

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
 Data File : BF091903.D  
 Acq On : 23 Dec 2016 4:12  
 Operator : UM/SJ  
 Sample : H6182-05  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-51(11.5-13.5)-121916

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-BF122116.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         | 4.750       | 231           | 233         | 236          | rVB      | 95012          | 104292        | 1.20%           | 0.071%        |
| 2         | 4.841       | 236           | 241         | 244          | rBV3     | 90792          | 165126        | 1.91%           | 0.112%        |
| 3         | 4.933       | 244           | 249         | 255          | rBV      | 2336719        | 3780929       | 43.67%          | 2.573%        |
| 4         | 5.116       | 263           | 265         | 267          | rBV      | 85436          | 119107        | 1.38%           | 0.081%        |
| 5         | 5.402       | 287           | 290         | 296          | rBV      | 5692542        | 6306332       | 72.84%          | 4.292%        |
| 6         | 5.493       | 296           | 298         | 300          | rBV2     | 174396         | 207585        | 2.40%           | 0.141%        |
| 7         | 5.539       | 300           | 302         | 304          | rVB      | 206616         | 182244        | 2.10%           | 0.124%        |
| 8         | 5.584       | 304           | 306         | 310          | rVB3     | 137969         | 241450        | 2.79%           | 0.164%        |
| 9         | 5.653       | 310           | 312         | 314          | rBV      | 97066          | 101197        | 1.17%           | 0.069%        |
| 10        | 5.744       | 317           | 320         | 323          | rBV2     | 303918         | 523474        | 6.05%           | 0.356%        |
| 11        | 5.802       | 323           | 325         | 327          | rBV      | 161253         | 236939        | 2.74%           | 0.161%        |
| 12        | 5.893       | 330           | 333         | 335          | rVB2     | 393163         | 521176        | 6.02%           | 0.355%        |
| 13        | 5.939       | 335           | 337         | 340          | rBV2     | 217807         | 482484        | 5.57%           | 0.328%        |
| 14        | 5.984       | 340           | 341         | 345          | rVB2     | 545764         | 1021922       | 11.80%          | 0.696%        |
| 15        | 6.042       | 345           | 346         | 348          | rBV2     | 226976         | 299570        | 3.46%           | 0.204%        |
| 16        | 6.076       | 348           | 349         | 355          | rVB3     | 275357         | 767443        | 8.86%           | 0.522%        |
| 17        | 6.179       | 355           | 358         | 360          | rBV2     | 331985         | 561494        | 6.49%           | 0.382%        |
| 18        | 6.213       | 360           | 361         | 364          | rVB2     | 172151         | 184887        | 2.14%           | 0.126%        |
| 19        | 6.270       | 364           | 366         | 371          | rBV      | 962178         | 1545740       | 17.85%          | 1.052%        |
| 20        | 6.362       | 371           | 374         | 375          | rBV2     | 232658         | 484711        | 5.60%           | 0.330%        |
| 21        | 6.396       | 375           | 377         | 378          | rBV      | 259267         | 346467        | 4.00%           | 0.236%        |
| 22        | 6.453       | 378           | 382         | 383          | rVB      | 4458848        | 6300257       | 72.77%          | 4.288%        |
| 23        | 6.487       | 383           | 385         | 387          | rBV2     | 519095         | 635384        | 7.34%           | 0.432%        |
| 24        | 6.545       | 387           | 390         | 392          | rVB      | 5457519        | 7132777       | 82.38%          | 4.855%        |
| 25        | 6.602       | 392           | 395         | 397          | rVB3     | 409623         | 599338        | 6.92%           | 0.408%        |
| 26        | 6.716       | 397           | 405         | 406          | rBV5     | 571869         | 1823521       | 21.06%          | 1.241%        |
| 27        | 6.750       | 406           | 408         | 411          | rVB      | 1611695        | 1946774       | 22.48%          | 1.325%        |
| 28        | 6.819       | 411           | 414         | 416          | rBV3     | 578443         | 1415047       | 16.34%          | 0.963%        |
| 29        | 6.876       | 418           | 419         | 420          | rBV      | 345533         | 328170        | 3.79%           | 0.223%        |
| 30        | 6.910       | 420           | 422         | 423          | rBV2     | 4490044        | 5115693       | 59.08%          | 3.482%        |
| 31        | 7.025       | 426           | 432         | 434          | rBV4     | 896330         | 2239057       | 25.86%          | 1.524%        |
| 32        | 7.070       | 434           | 436         | 437          | rBV2     | 114990         | 119626        | 1.38%           | 0.081%        |
| 33        | 7.105       | 437           | 439         | 440          | rBV2     | 446018         | 702128        | 8.11%           | 0.478%        |
| 34        | 7.139       | 440           | 442         | 444          | rBV      | 1033016        | 1356427       | 15.67%          | 0.923%        |

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Integration Parameters: rteint.p  
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 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-BF122116.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |     |     |     |      |         |         |         |        |
|----|--------|-----|-----|-----|------|---------|---------|---------|--------|
| 35 | 7.230  | 448 | 450 | 452 | rBV2 | 244647  | 411835  | 4.76%   | 0.280% |
| 36 | 7.322  | 452 | 458 | 462 | rBV2 | 3548108 | 8658272 | 100.00% | 5.893% |
| 37 | 7.402  | 462 | 465 | 467 | rVB2 | 1496747 | 2580371 | 29.80%  | 1.756% |
| 38 | 7.447  | 467 | 469 | 470 | rBV  | 719433  | 1040635 | 12.02%  | 0.708% |
| 39 | 7.527  | 473 | 476 | 477 | rBV3 | 935949  | 1448845 | 16.73%  | 0.986% |
| 40 | 7.562  | 477 | 479 | 481 | rVB2 | 1999942 | 2134727 | 24.66%  | 1.453% |
| 41 | 7.596  | 481 | 482 | 483 | rBV  | 424202  | 466517  | 5.39%   | 0.318% |
| 42 | 7.676  | 485 | 489 | 494 | rVB6 | 1839392 | 3937346 | 45.47%  | 2.680% |
| 43 | 7.779  | 496 | 498 | 503 | rVB4 | 1230621 | 2545114 | 29.40%  | 1.732% |
| 44 | 7.870  | 503 | 506 | 507 | rBV2 | 867440  | 1435258 | 16.58%  | 0.977% |
| 45 | 7.927  | 507 | 511 | 514 | rBV5 | 814509  | 2249194 | 25.98%  | 1.531% |
| 46 | 7.996  | 514 | 517 | 518 | rBV2 | 596205  | 1397353 | 16.14%  | 0.951% |
| 47 | 8.042  | 518 | 521 | 522 | rBV2 | 1833651 | 2815192 | 32.51%  | 1.916% |
| 48 | 8.088  | 522 | 525 | 526 | rBV3 | 960371  | 1324873 | 15.30%  | 0.902% |
| 49 | 8.213  | 533 | 536 | 537 | rBV2 | 700094  | 1416196 | 16.36%  | 0.964% |
| 50 | 8.248  | 537 | 539 | 540 | rVV2 | 1277491 | 1682156 | 19.43%  | 1.145% |
| 51 | 8.328  | 543 | 546 | 548 | rVB3 | 1176811 | 2136774 | 24.68%  | 1.454% |
| 52 | 8.373  | 548 | 550 | 553 | rBV4 | 566712  | 1782824 | 20.59%  | 1.213% |
| 53 | 8.476  | 556 | 559 | 563 | rVB2 | 3371715 | 6074956 | 70.16%  | 4.135% |
| 54 | 8.545  | 563 | 565 | 567 | rBV2 | 942392  | 1387627 | 16.03%  | 0.944% |
| 55 | 8.590  | 567 | 569 | 572 | rBV3 | 539578  | 1204520 | 13.91%  | 0.820% |
| 56 | 8.785  | 584 | 586 | 587 | rBV  | 653244  | 711971  | 8.22%   | 0.485% |
| 57 | 8.956  | 599 | 601 | 603 | rVB4 | 630048  | 731542  | 8.45%   | 0.498% |
| 58 | 9.070  | 609 | 611 | 613 | rBV  | 2445712 | 2994089 | 34.58%  | 2.038% |
| 59 | 9.116  | 613 | 615 | 617 | rVB  | 4096305 | 5205211 | 60.12%  | 3.543% |
| 60 | 9.196  | 619 | 622 | 625 | rBV2 | 1678728 | 2579792 | 29.80%  | 1.756% |
| 61 | 9.505  | 647 | 649 | 652 | rVB3 | 2378195 | 3838755 | 44.34%  | 2.613% |
| 62 | 9.562  | 652 | 654 | 657 | rVB4 | 652997  | 977729  | 11.29%  | 0.665% |
| 63 | 9.608  | 657 | 658 | 660 | rVB  | 890526  | 883432  | 10.20%  | 0.601% |
| 64 | 9.665  | 660 | 663 | 664 | rBV3 | 1246248 | 1898711 | 21.93%  | 1.292% |
| 65 | 9.711  | 664 | 667 | 668 | rVB  | 2587167 | 3659183 | 42.26%  | 2.491% |
| 66 | 9.745  | 668 | 670 | 671 | rBV  | 660540  | 1017617 | 11.75%  | 0.693% |
| 67 | 9.791  | 671 | 674 | 676 | rBV2 | 1686939 | 3291413 | 38.01%  | 2.240% |
| 68 | 9.836  | 676 | 678 | 679 | rVB2 | 686876  | 571507  | 6.60%   | 0.389% |
| 69 | 9.962  | 687 | 689 | 693 | rBV2 | 690523  | 1920215 | 22.18%  | 1.307% |
| 70 | 10.111 | 700 | 702 | 705 | rBV3 | 935406  | 1937039 | 22.37%  | 1.318% |
| 71 | 10.168 | 705 | 707 | 708 | rBV  | 637325  | 834506  | 9.64%   | 0.568% |

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 ClientSampleId :  
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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-BF122116.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 10.202 | 708  | 710  | 713  | rBV2 | 1789545 | 2208362 | 25.51% | 1.503% |
| 73 | 10.339 | 720  | 722  | 725  | rBV3 | 566567  | 1270294 | 14.67% | 0.865% |
| 74 | 10.591 | 741  | 744  | 745  | rBV  | 2387549 | 3037743 | 35.08% | 2.068% |
| 75 | 10.716 | 753  | 755  | 758  | rVB2 | 857208  | 1337178 | 15.44% | 0.910% |
| 76 | 11.276 | 802  | 804  | 806  | rBV  | 1221877 | 1135051 | 13.11% | 0.773% |
| 77 | 12.682 | 926  | 927  | 930  | rVB2 | 306070  | 286779  | 3.31%  | 0.195% |
| 78 | 12.854 | 940  | 942  | 945  | rVV  | 2826903 | 4081356 | 47.14% | 2.778% |
| 79 | 12.922 | 945  | 948  | 952  | rVB5 | 110584  | 334749  | 3.87%  | 0.228% |
| 80 | 13.757 | 1019 | 1021 | 1028 | rVB3 | 232327  | 438969  | 5.07%  | 0.299% |
| 81 | 13.894 | 1030 | 1033 | 1036 | rVB2 | 909605  | 2183029 | 25.21% | 1.486% |
| 82 | 14.225 | 1061 | 1062 | 1065 | rVB  | 106118  | 124178  | 1.43%  | 0.085% |
| 83 | 14.660 | 1098 | 1100 | 1106 | rVV3 | 112658  | 293621  | 3.39%  | 0.200% |
| 84 | 15.300 | 1153 | 1156 | 1165 | rVB  | 723197  | 1020418 | 11.79% | 0.695% |
| 85 | 19.163 | 1490 | 1494 | 1501 | rBV7 | 24871   | 91201   | 1.05%  | 0.062% |

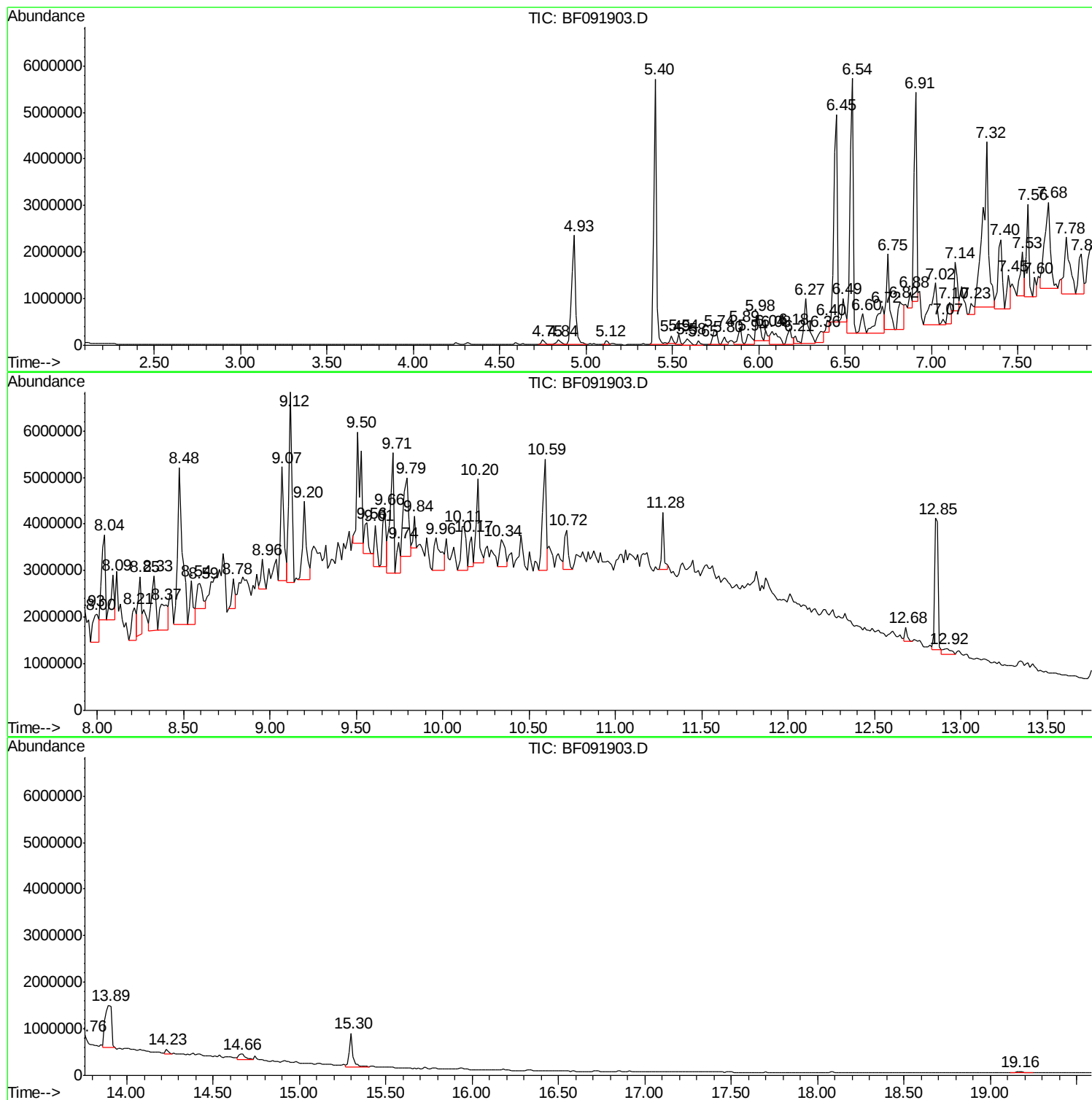
Sum of corrected areas: 146924993

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
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Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

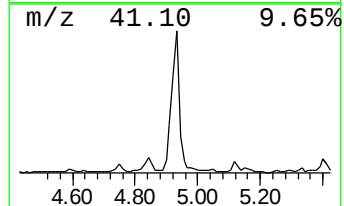
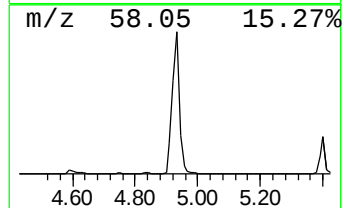
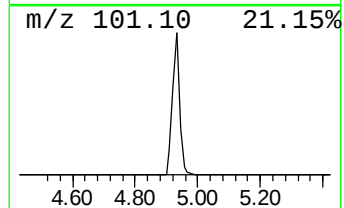
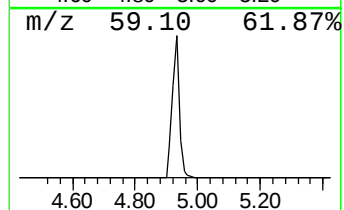
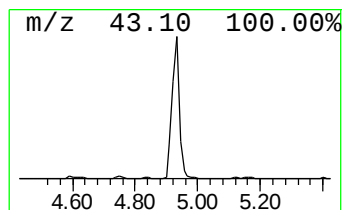
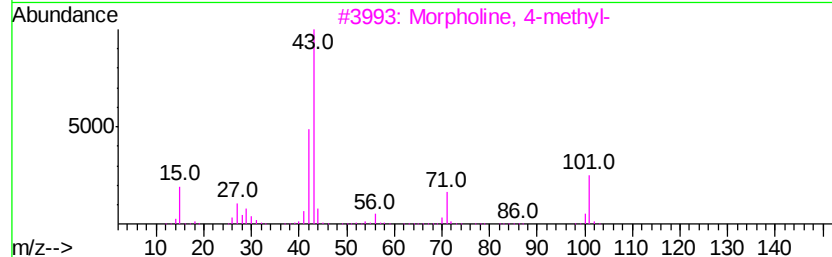
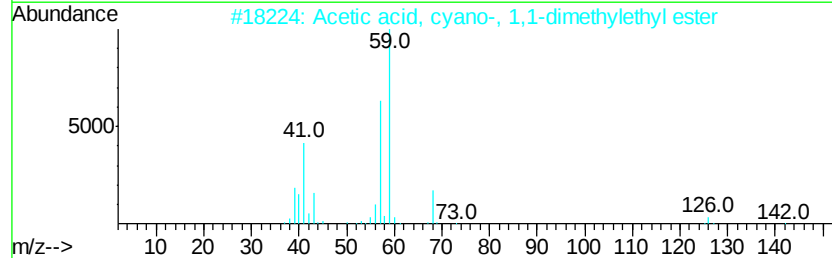
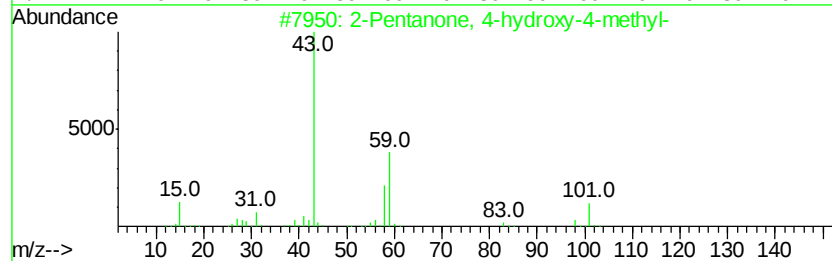
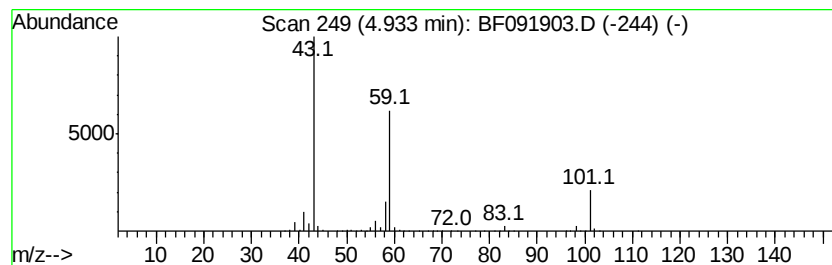
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.93 | 38.84 ng | 3780930 | 1,4-Dichlorobenzene-d4 | 6.75 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 3    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 4    |    | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |
| 5    |    | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |



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ALS Vial : 54 Sample Multiplier: 1

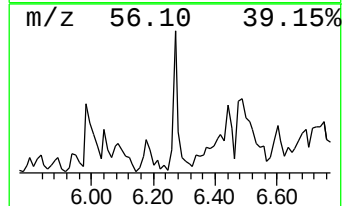
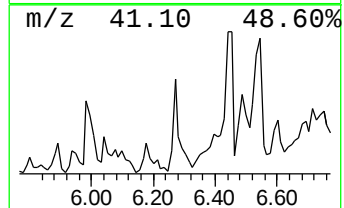
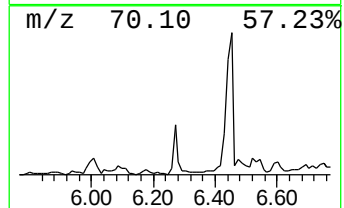
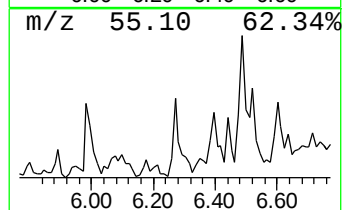
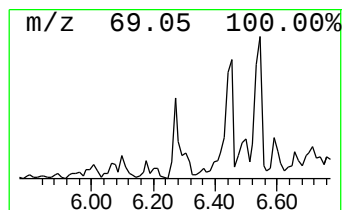
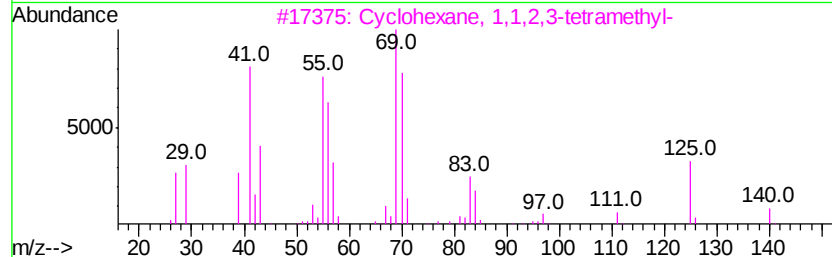
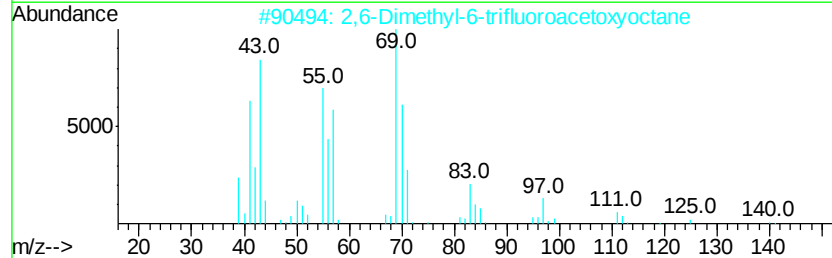
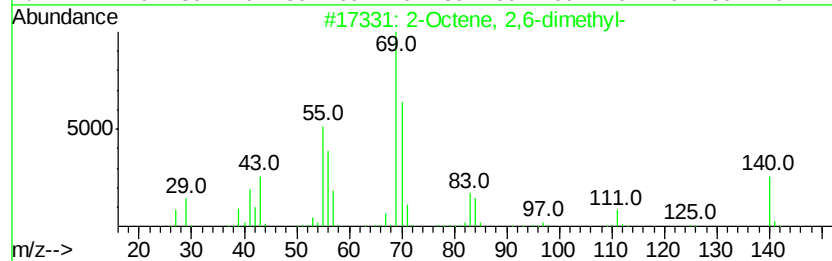
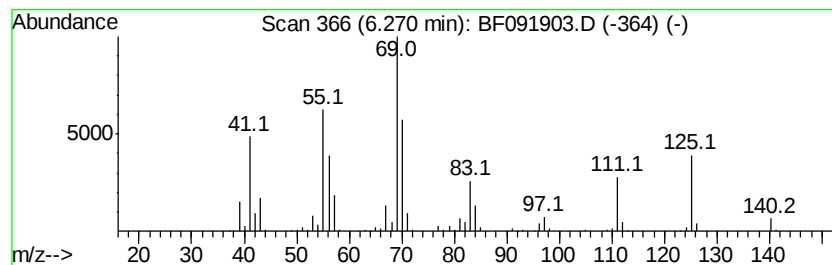
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 2-Octene, 2,6-dimethyl- Concentration Rank 12

| R.T.      | EstConc                             | Area    | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|---------|------------------------|-------------|------|
| 6.27      | 15.88 ng                            | 1545740 | 1,4-Dichlorobenzene-d4 | 6.75        |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm                | CAS#        | Qual |
| 1         | 2-Octene, 2,6-dimethyl-             | 140     | C10H20                 | 004057-42-5 | 70   |
| 2         | 2,6-Dimethyl-6-trifluoroacetoxvo... | 254     | C12H21F3O2             | 061986-67-2 | 59   |
| 3         | Cvclohexane, 1,1,2,3-tetramethyl-   | 140     | C10H20                 | 006783-92-2 | 55   |
| 4         | Cvclooctane, 1-methyl-3-propvl-     | 168     | C12H24                 | 255885-37-1 | 50   |
| 5         | 1-Hexene, 3,3,5-trimethyl-          | 126     | C9H18                  | 013427-43-5 | 49   |



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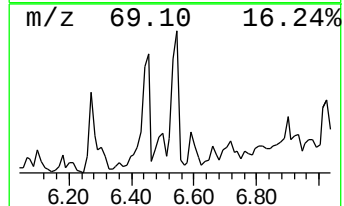
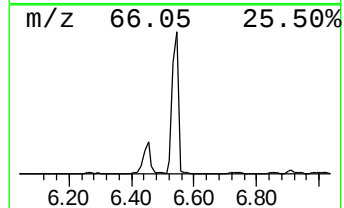
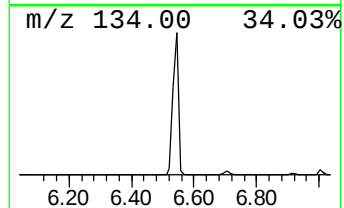
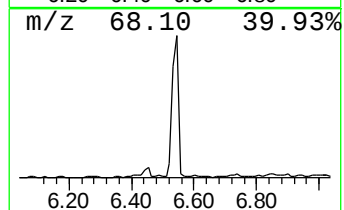
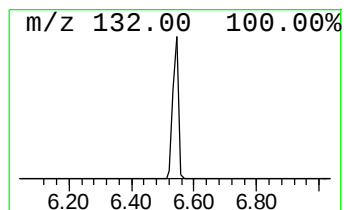
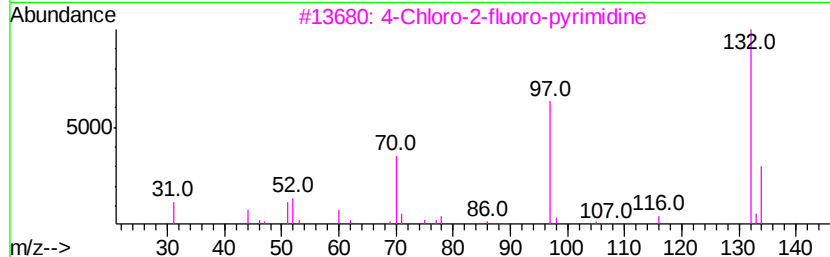
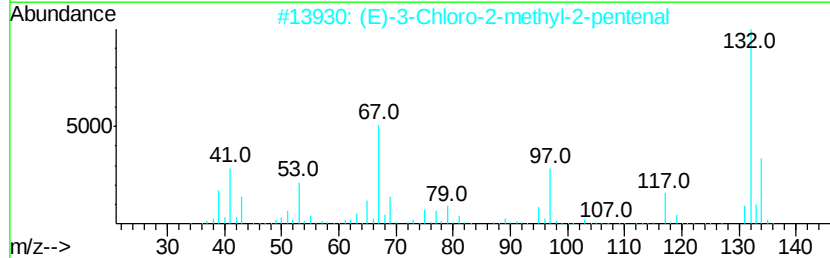
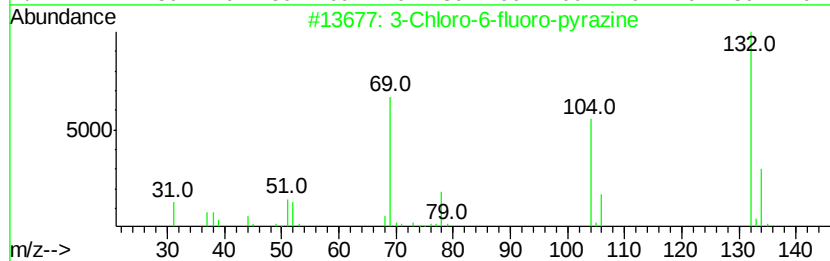
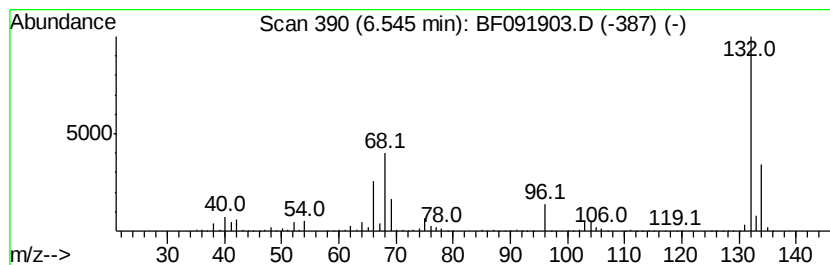
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.54 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.54 | 73.28 ng | 7132780 | 1,4-Dichlorobenzene-d4 | 6.75 |

| Hit# | of | Tentative ID                       | MW  | MolForm   | CAS#         | Qual |
|------|----|------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine         | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal   | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 4-Chloro-2-fluoro-pyrimidine       | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 4    |    | 2H-Cyclopentadipyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 5    |    | 1H-Benzimidazole, 2-methyl-        | 132 | C8H8N2    | 000615-15-6  | 9    |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

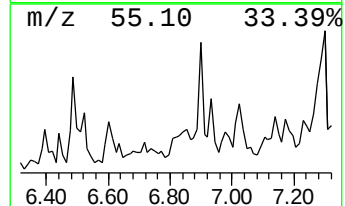
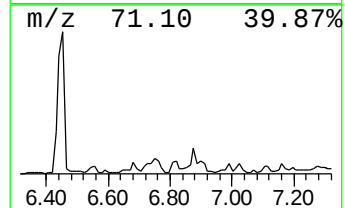
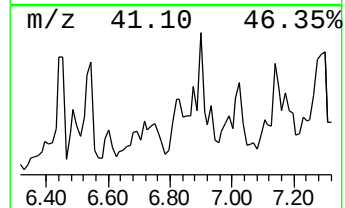
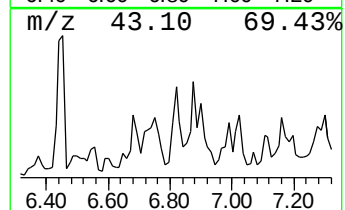
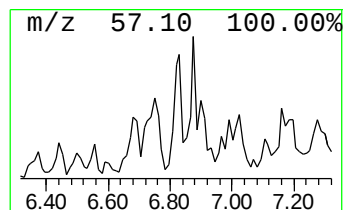
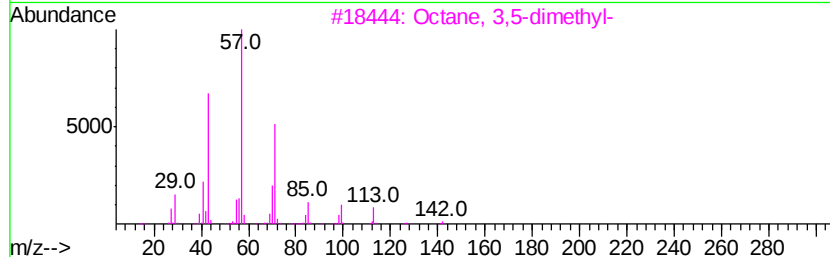
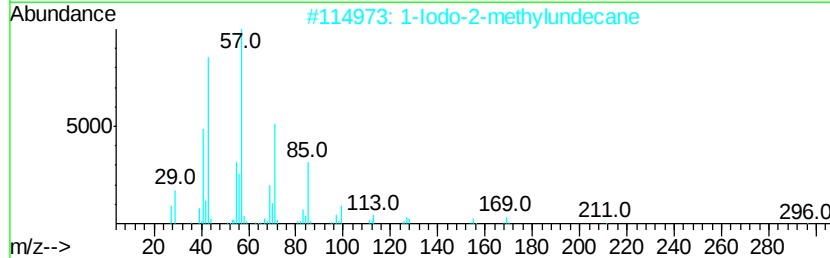
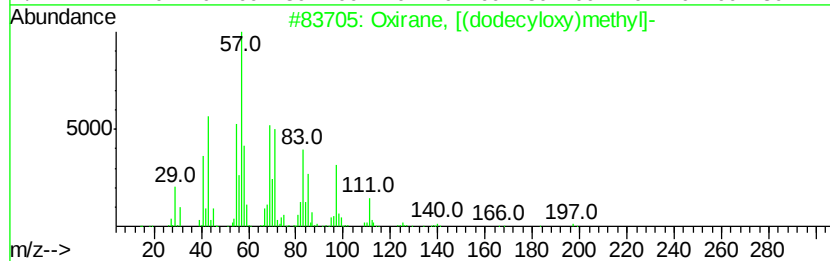
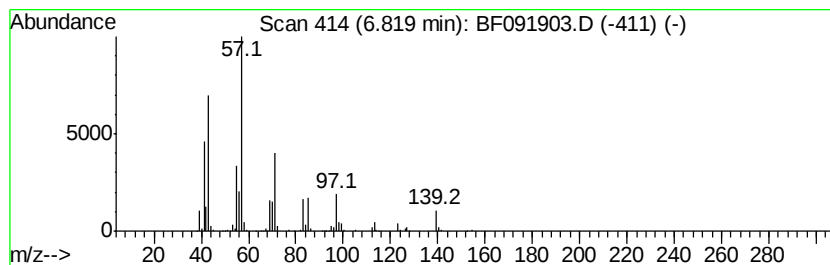
Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Oxirane, [(dodecyloxy)methyl]- Concentration Rank 16

| R.T.      | EstConc                        | Area    | Relative to ISTD       | R.T.        |      |
|-----------|--------------------------------|---------|------------------------|-------------|------|
| 6.82      | 14.54 ng                       | 1415050 | 1,4-Dichlorobenzene-d4 | 6.75        |      |
| Hit# of 5 | Tentative ID                   | MW      | MolForm                | CAS#        | Qual |
| 1         | Oxirane, [(dodecyloxy)methyl]- | 242     | C15H30O2               | 002461-18-9 | 50   |
| 2         | 1-Iodo-2-methylundecane        | 296     | C12H25I                | 073105-67-6 | 50   |
| 3         | Octane, 3,5-dimethyl-          | 142     | C10H22                 | 015869-93-9 | 47   |
| 4         | Decane, 2-methyl-              | 156     | C11H24                 | 006975-98-0 | 47   |
| 5         | Tridecane, 6-methyl-           | 198     | C14H30                 | 013287-21-3 | 47   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

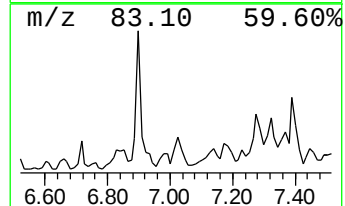
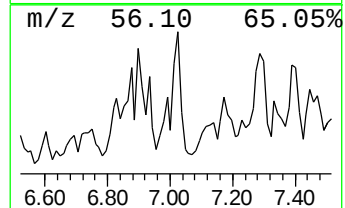
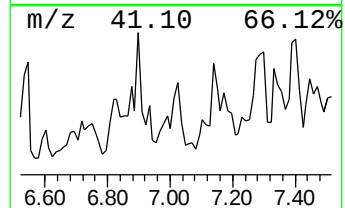
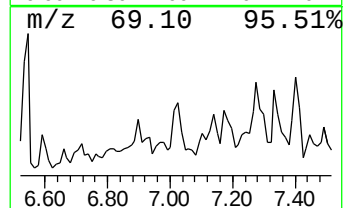
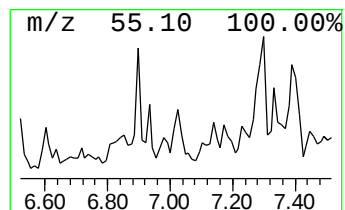
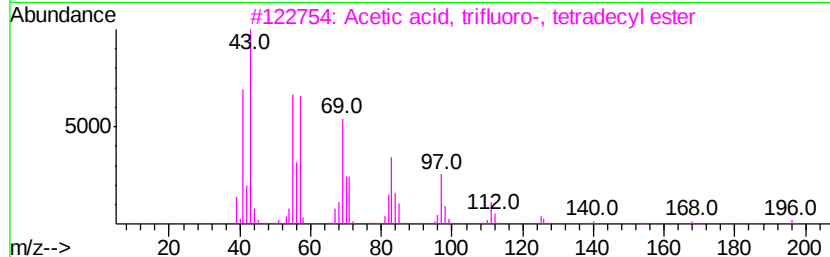
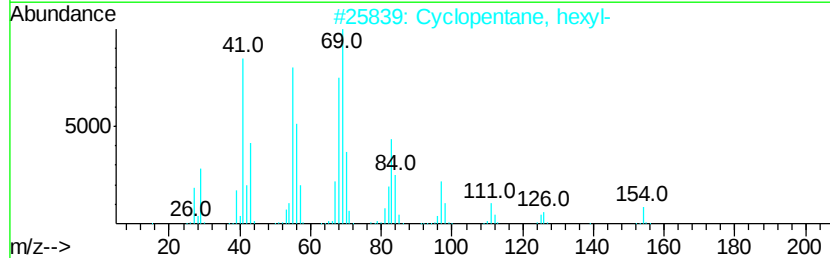
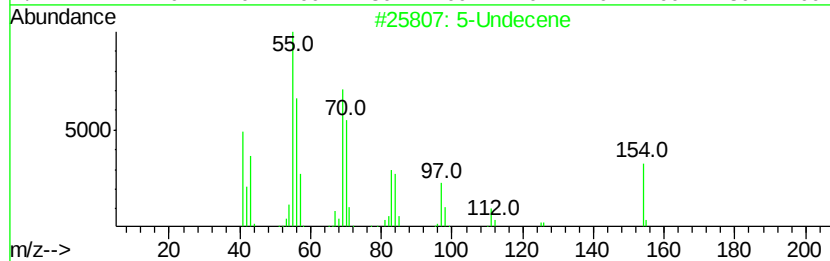
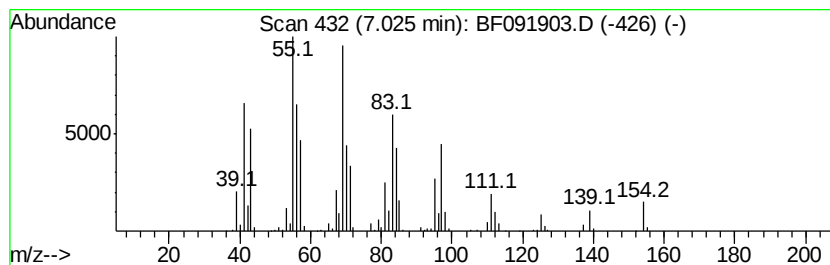
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 5-Undecene Concentration Rank 7

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.02 | 23.00 ng | 2239060 | 1,4-Dichlorobenzene-d4 | 6.75 |

| Hit# | of | Tentative ID                         | MW  | MolForm    | CAS#        | Qual |
|------|----|--------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 5-Undecene                           | 154 | C11H22     | 004941-53-1 | 90   |
| 2    |    | Cyclopentane, hexyl-                 | 154 | C11H22     | 004457-00-5 | 76   |
| 3    |    | Acetic acid, trifluoro-, tetradec... | 310 | C16H29F3O2 | 006222-02-2 | 72   |
| 4    |    | Trifluoroacetic acid, n-tridecyl ... | 296 | C15H27F3O2 | 053800-02-5 | 72   |
| 5    |    | 1-Ethyl-2,2,6-trimethylcyclohexane   | 154 | C11H22     | 071186-27-1 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

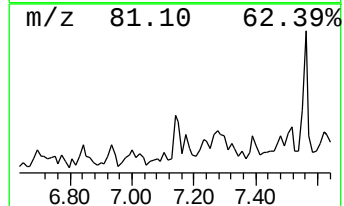
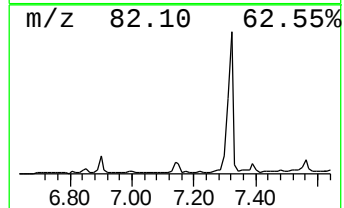
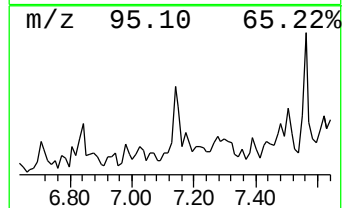
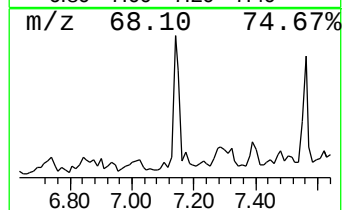
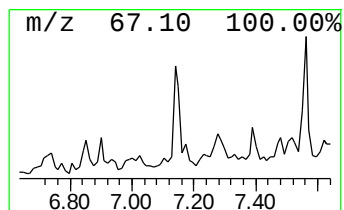
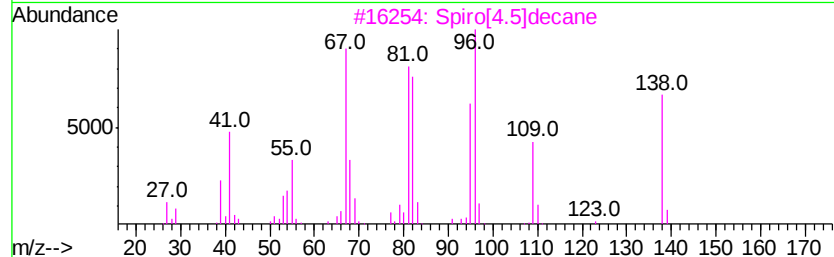
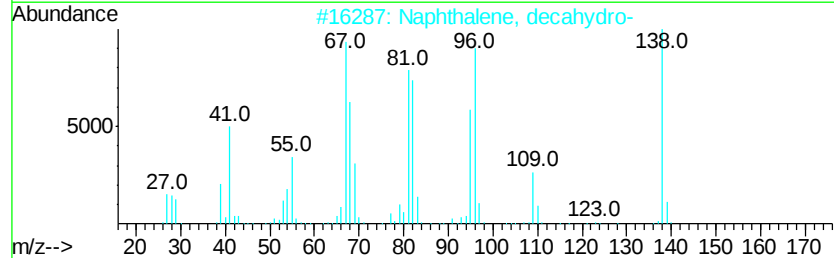
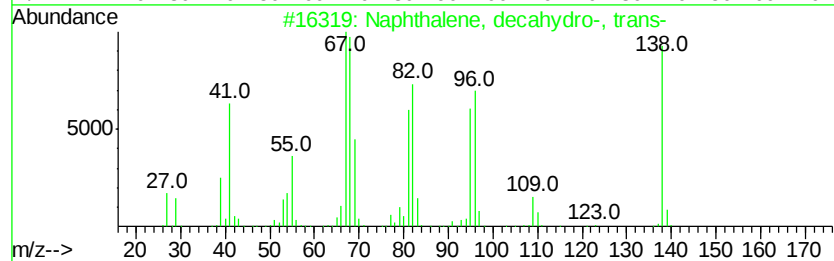
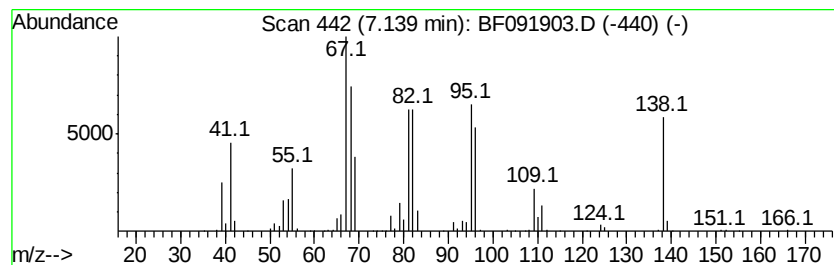
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, decahydro-, tr... Concentration Rank 17

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.14 | 13.94 ng | 1356430 | 1,4-Dichlorobenzene-d4 | 6.75 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, decahydro-, trans-     | 138 | C10H18  | 000493-02-7 | 94   |
| 2    |    | Naphthalene, decahydro-             | 138 | C10H18  | 000091-17-8 | 91   |
| 3    |    | Spiro[4.5]decane                    | 138 | C10H18  | 000176-63-6 | 89   |
| 4    |    | Naphthalene, decahydro-, cis-       | 138 | C10H18  | 000493-01-6 | 60   |
| 5    |    | Cyclohexane, 1-methyl-4-(1-methy... | 138 | C10H18  | 001879-07-8 | 53   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

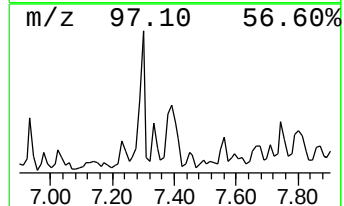
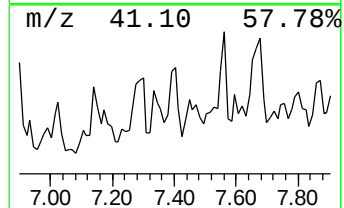
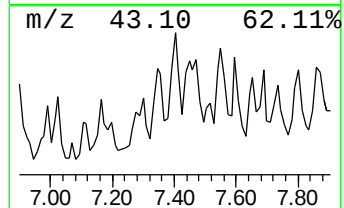
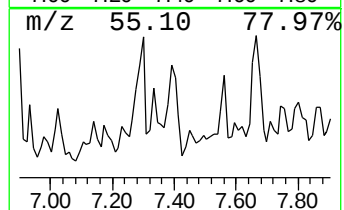
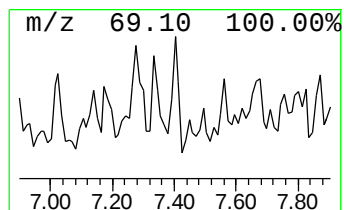
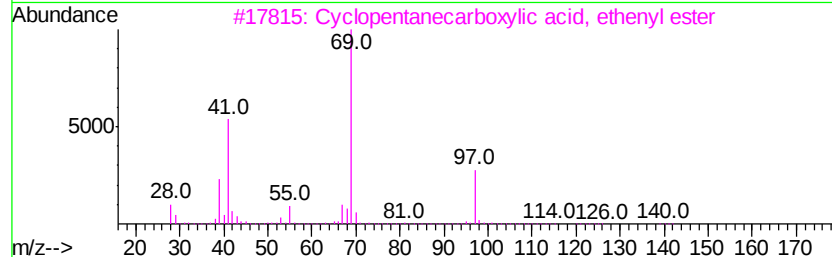
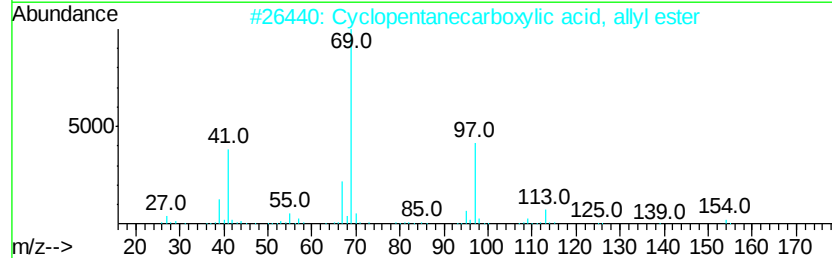
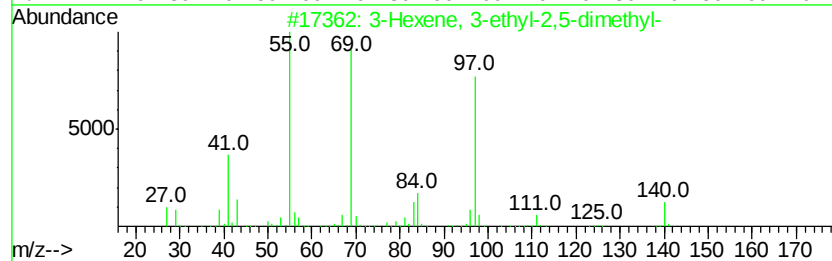
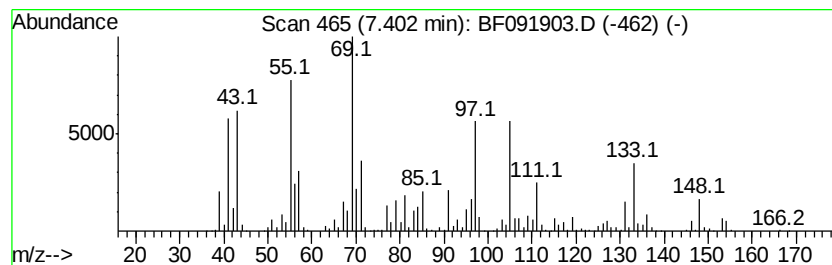
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown7.40 Concentration Rank 9

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 7.40 | 18.33 ng | 2580370 | Napthalene-d8    | 8.04 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 3-Hexene, 3-ethyl-2,5-dimethyl-      | 140 | C10H20  | 062338-08-3 | 47   |
| 2    |    | Cyclopentanecarboxylic acid, all...  | 154 | C9H14O2 | 178905-33-4 | 38   |
| 3    |    | Cyclopentanecarboxylic acid, eth...  | 140 | C8H12O2 | 016523-06-1 | 38   |
| 4    |    | Cyclohexane, 1,3,5-trimethyl-, (...) | 126 | C9H18   | 001795-26-2 | 35   |
| 5    |    | Cyclohexane, 1,1-dimethyl-2-propyl-  | 154 | C11H22  | 081983-71-3 | 35   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

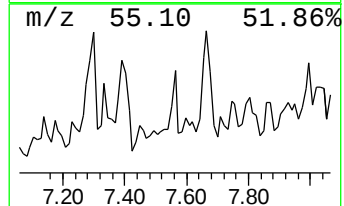
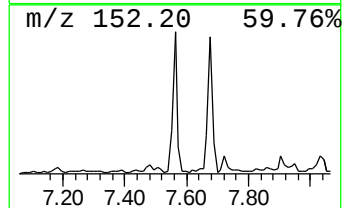
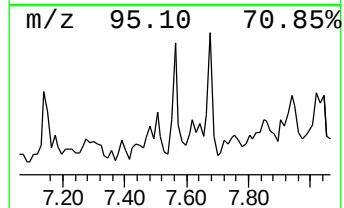
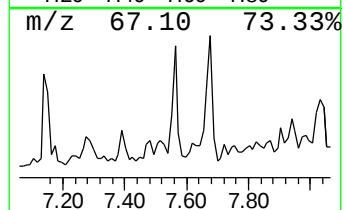
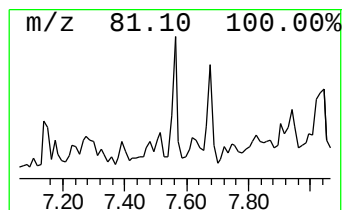
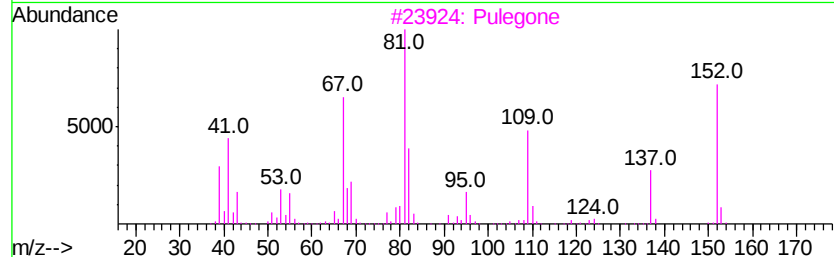
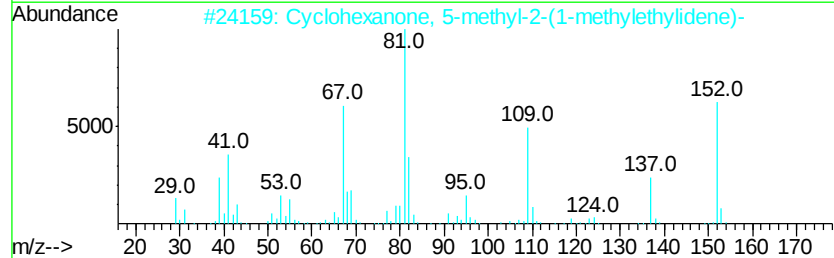
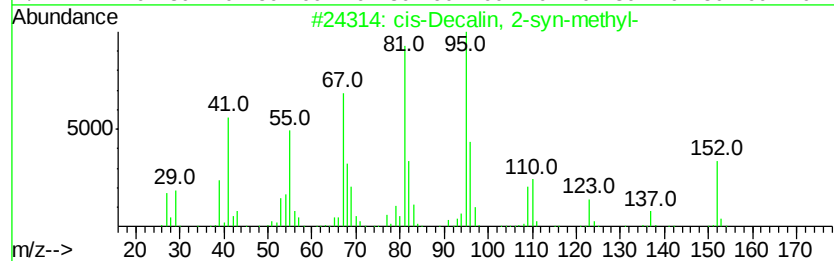
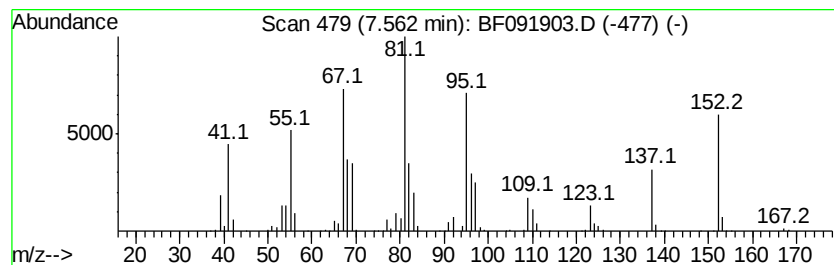
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 cis-Decalin, 2-syn-methyl- Concentration Rank 15

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 7.56 | 15.17 ng | 2134730 | Naphthalene-d8   | 8.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | cis-Decalin, 2-syn-methyl-          | 152 | C11H20  | 1000155-85-6 | 87   |
| 2    |    | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6  | 70   |
| 3    |    | Pulegone                            | 152 | C10H16O | 000089-82-7  | 68   |
| 4    |    | Cyclopropane, 1-(1-methylethyl)-... | 152 | C11H20  | 056259-17-7  | 68   |
| 5    |    | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20  | 002547-27-5  | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

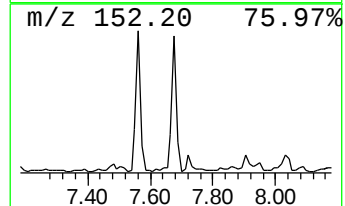
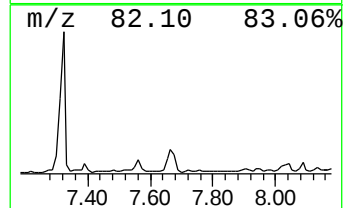
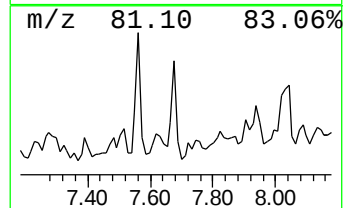
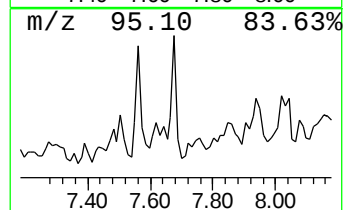
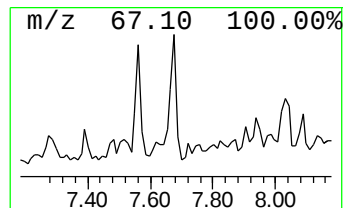
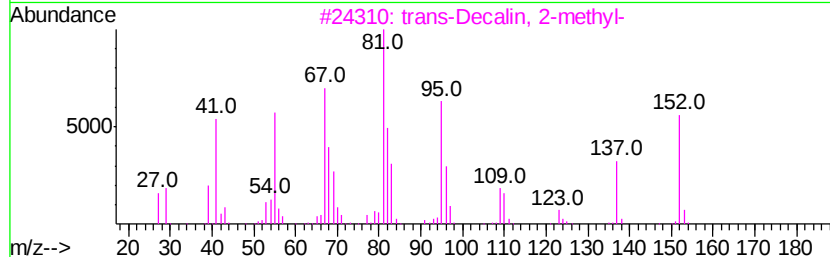
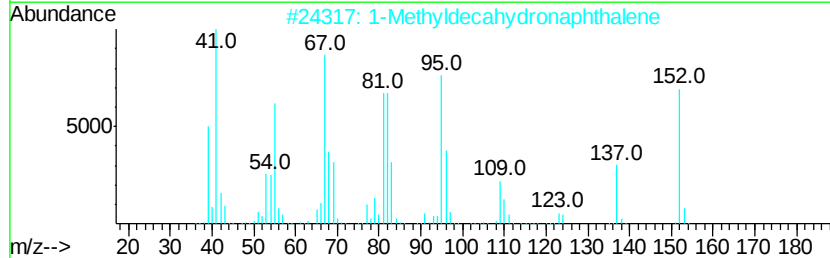
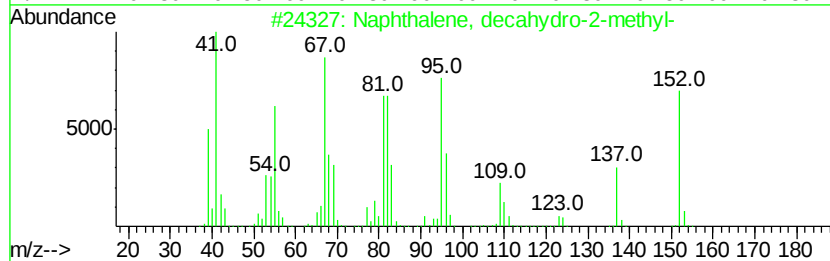
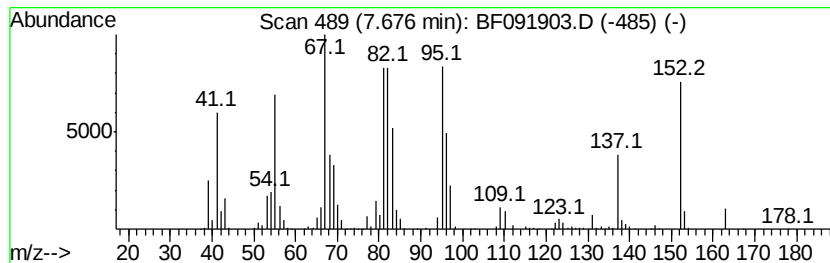
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphthalene, decahydro-2-me... Concentration Rank 5

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 7.68 | 27.97 ng | 3937350 | Naphthalene-d8   | 8.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, decahydro-2-methyl-    | 152 | C11H20  | 002958-76-1  | 90   |
| 2    |    | 1-Methyldecahydronaphthalene        | 152 | C11H20  | 002958-75-0  | 90   |
| 3    |    | trans-Decalin, 2-methyl-            | 152 | C11H20  | 1000152-47-3 | 76   |
| 4    |    | Cyclodecene, 1-methyl-              | 152 | C11H20  | 066633-38-3  | 64   |
| 5    |    | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18  | 004795-86-2  | 58   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

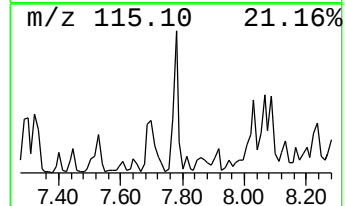
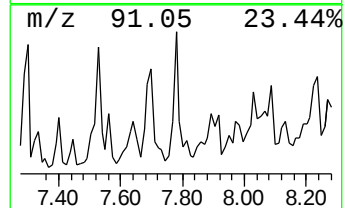
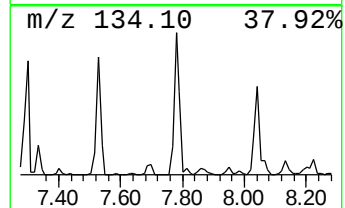
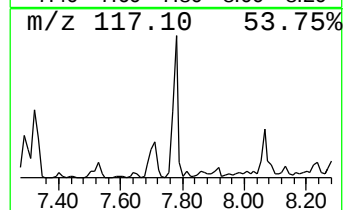
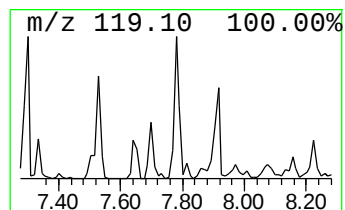
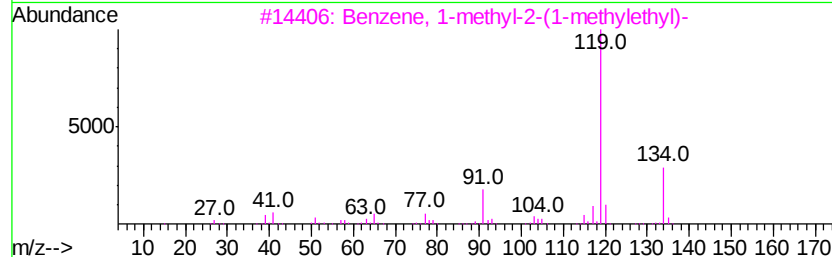
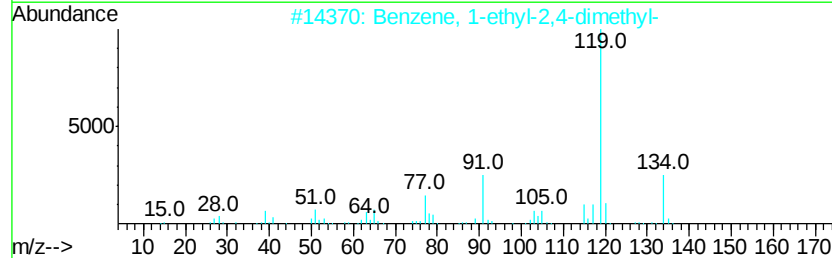
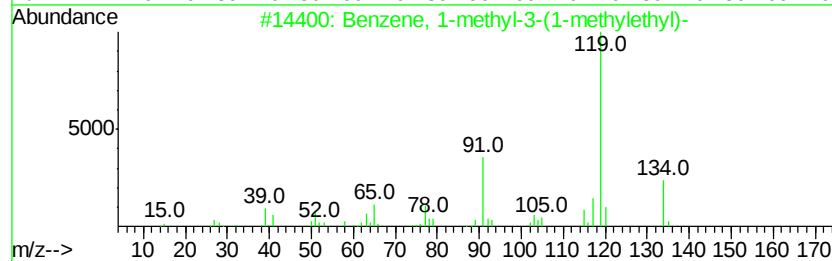
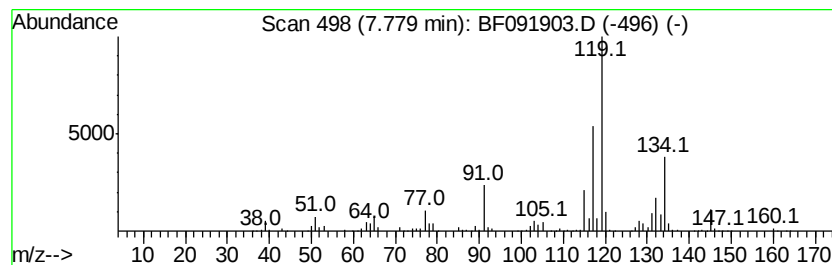
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Benzene, 1-methyl-3-(1-meth... Concentration Rank 10

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 7.78 | 18.08 ng | 2545110 | Napthalene-d8    | 8.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 60   |
| 2    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 60   |
| 3    |    | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14  | 000527-84-4 | 60   |
| 4    |    | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14  | 000099-87-6 | 60   |
| 5    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 60   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

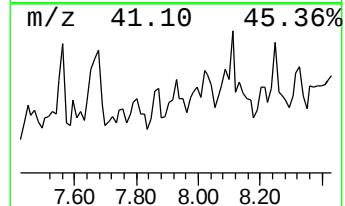
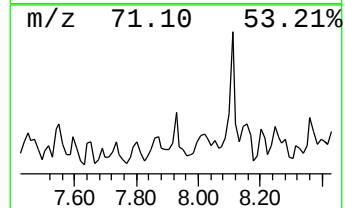
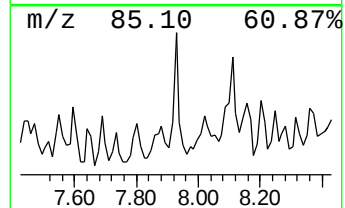
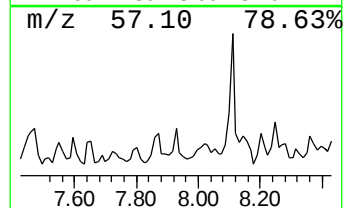
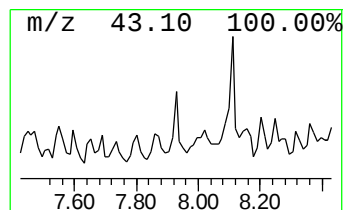
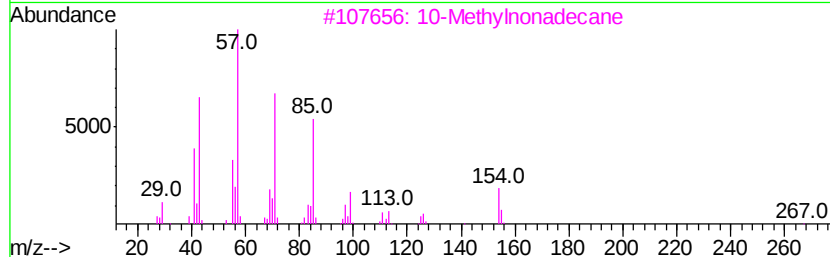
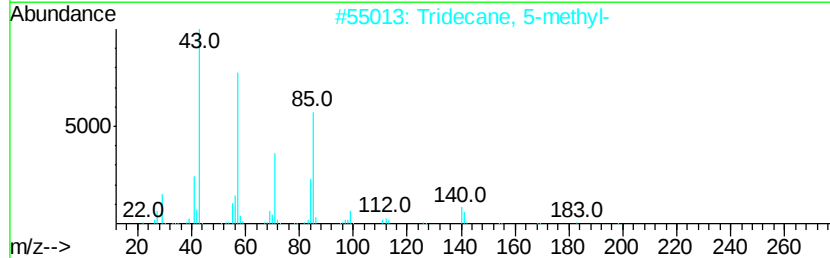
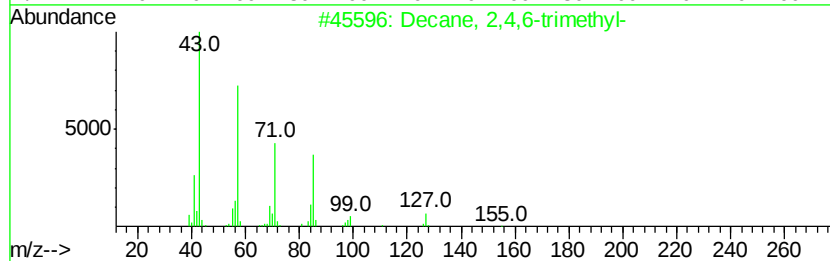
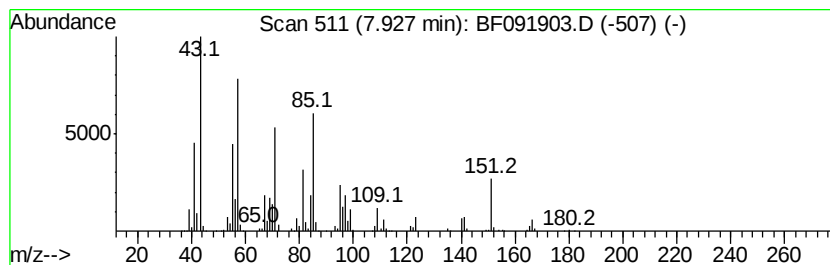
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Decane, 2,4,6-trimethyl- Concentration Rank 11

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 7.93 | 15.98 ng | 2249190 | Napthalene-d8    | 8.04 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Decane, 2,4,6-trimethyl- | 184 | C13H28  | 062108-27-4 | 50   |
| 2    |    |   | Tridecane, 5-methyl-     | 198 | C14H30  | 025117-31-1 | 38   |
| 3    |    |   | 10-Methylnonadecane      | 282 | C20H42  | 056862-62-5 | 38   |
| 4    |    |   | Undecane, 5,7-dimethyl-  | 184 | C13H28  | 017312-83-3 | 38   |
| 5    |    |   | Decane, 1-iodo-          | 268 | C10H21I | 002050-77-3 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

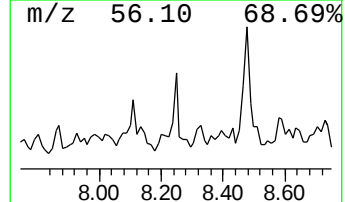
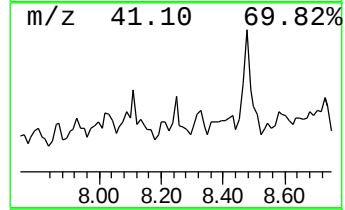
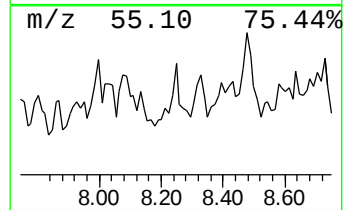
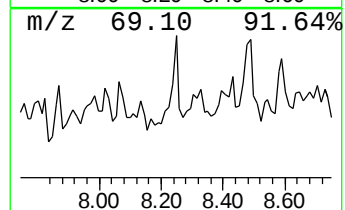
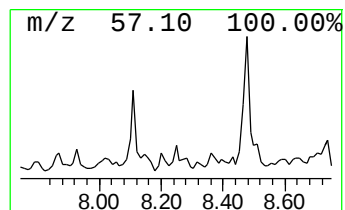
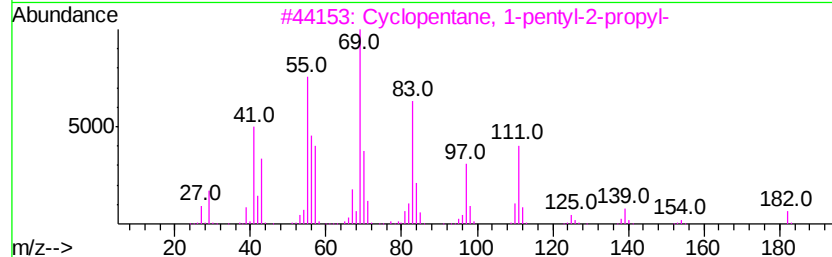
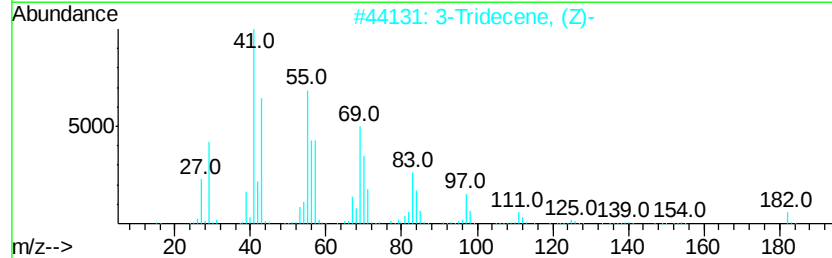
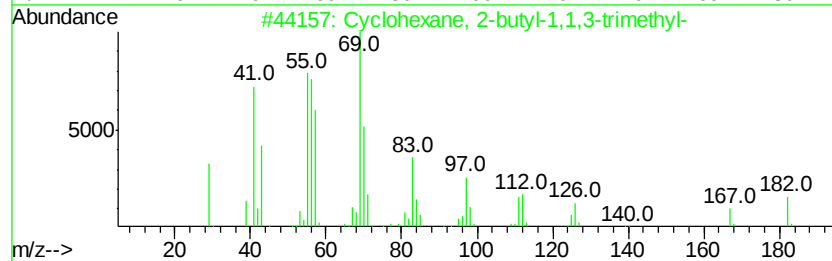
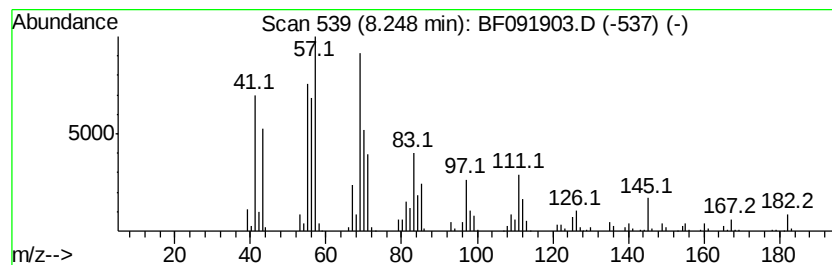
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Cyclohexane, 2-butyl-1,1,3-... Concentration Rank 20

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.25 | 11.95 ng | 1682160 | Napthalene-d8    | 8.04 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 2-butyl-1,1,3-trime... | 182 | C13H26  | 054676-39-0 | 93   |
| 2    |    | 3-Tridecene, (Z)-                   | 182 | C13H26  | 041446-53-1 | 87   |
| 3    |    | Cyclopentane, 1-pentyl-2-propyl-    | 182 | C13H26  | 062199-51-3 | 70   |
| 4    |    | 6-Tridecene, (E)-                   | 182 | C13H26  | 006434-76-0 | 64   |
| 5    |    | 1-Heptadecene                       | 238 | C17H34  | 006765-39-5 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

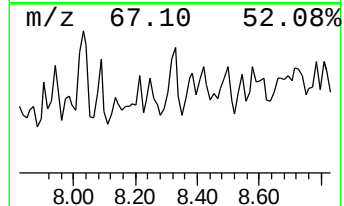
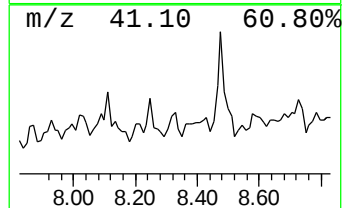
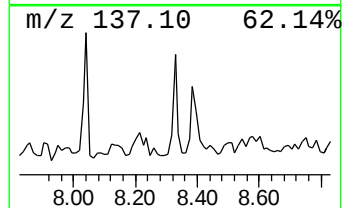
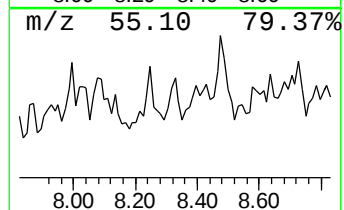
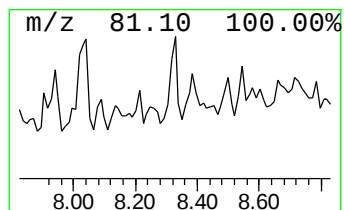
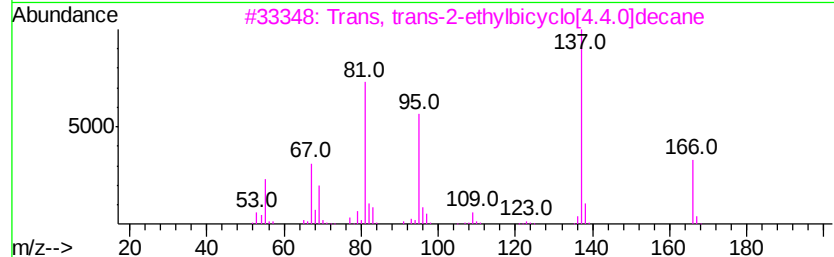
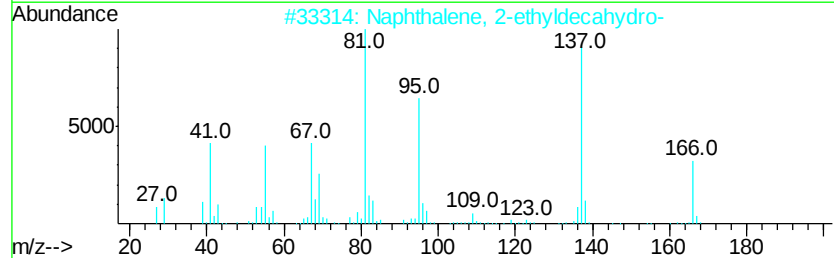
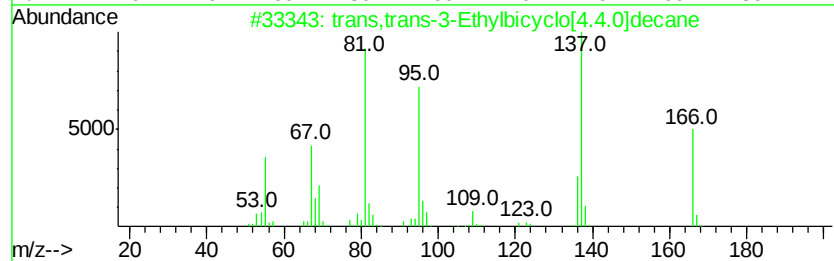
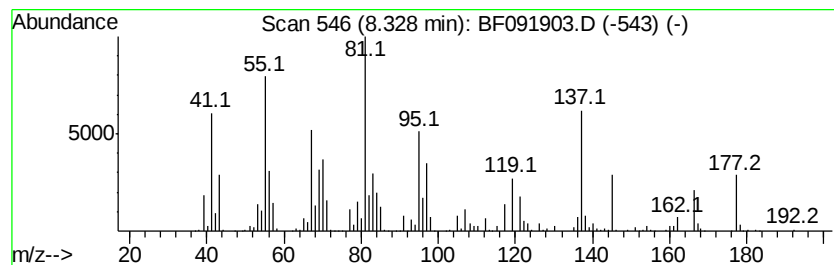
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 trans,trans-3-Ethylbicyclo[...] Concentration Rank 14

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.33 | 15.18 ng | 2136770 | Naphthalene-d8   | 8.04 |

| Hit# | of | Tentative ID                            | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------------|-----|---------|-------------|------|
| 1    | 5  | trans,trans-3-Ethylbicyclo[4.4.0]de...  | 166 | C12H22  | 058462-32-1 | 70   |
| 2    |    | Naphthalene, 2-ethyldecahydro-          | 166 | C12H22  | 001618-23-1 | 70   |
| 3    |    | Trans, trans-2-ethylbicyclo[4.4.0]de... | 166 | C12H22  | 066660-37-5 | 70   |
| 4    |    | trans, cis-2-Ethylbicyclo[4.4.0]de...   | 166 | C12H22  | 066660-39-7 | 62   |
| 5    |    | cis, cis-2-Ethylbicyclo[4.4.0]de...     | 166 | C12H22  | 066660-40-0 | 58   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

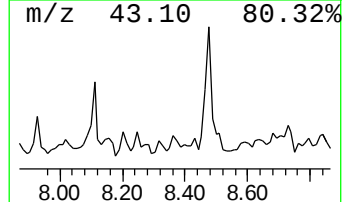
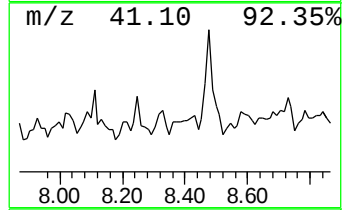
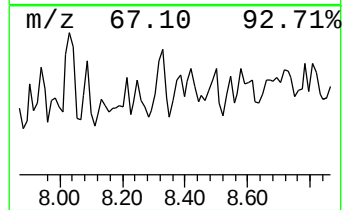
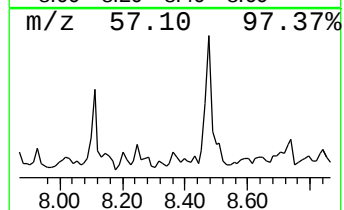
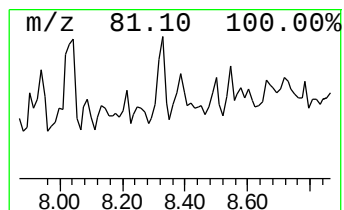
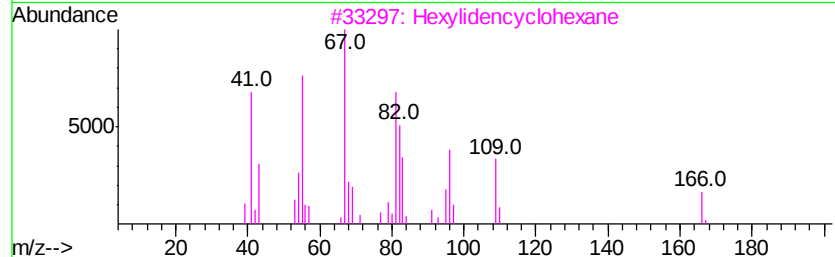
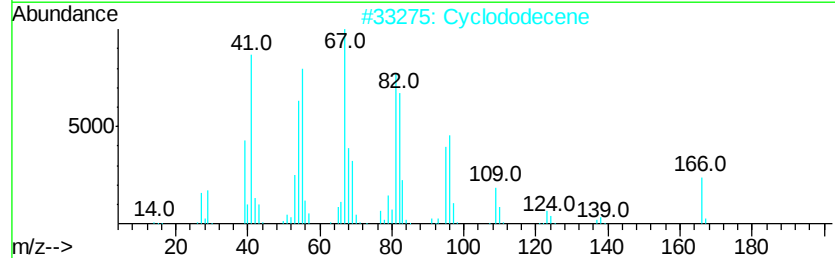
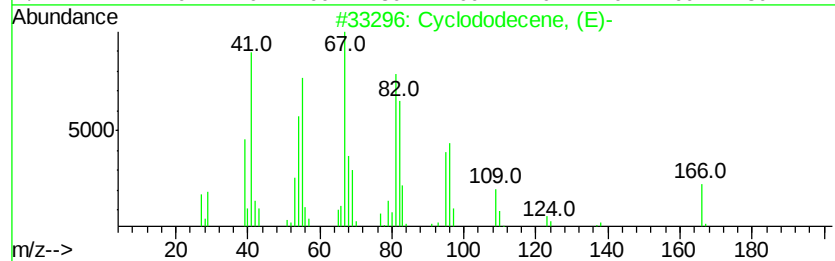
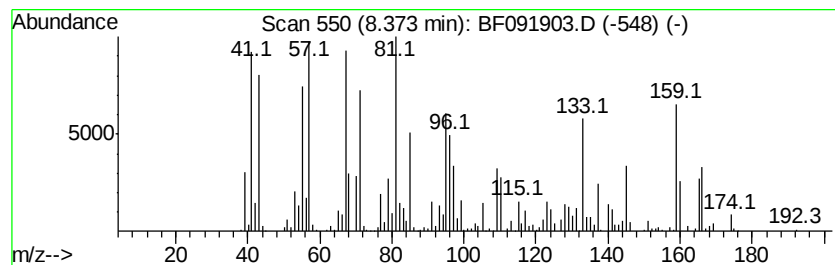
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Cyclododecene, (E)- Concentration Rank 19

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.37 | 12.67 ng | 1782820 | Naphthalene-d8   | 8.04 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Cyclododecene, (E)-                 | 166 | C12H22  | 001486-75-5  | 53   |
| 2    |    |   | Cyclododecene                       | 166 | C12H22  | 001501-82-2  | 53   |
| 3    |    |   | Hexylidencyclohexane                | 166 | C12H22  | 010201-62-4  | 46   |
| 4    |    |   | trans,trans-1,7-Dimethylspiro[4.... | 166 | C12H22  | 1000111-72-6 | 43   |
| 5    |    |   | Cyclohexane, methylene-             | 96  | C7H12   | 001192-37-6  | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

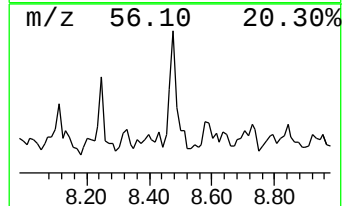
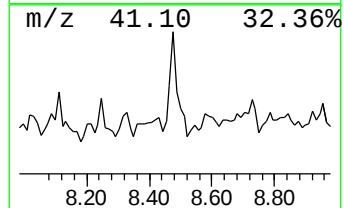
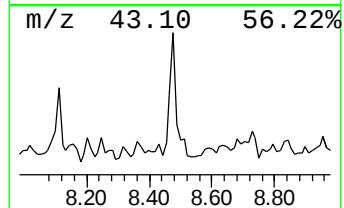
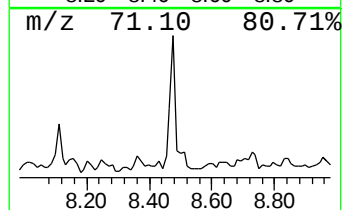
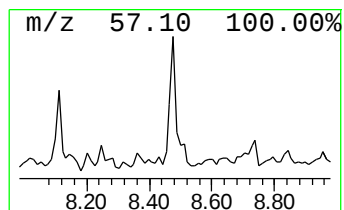
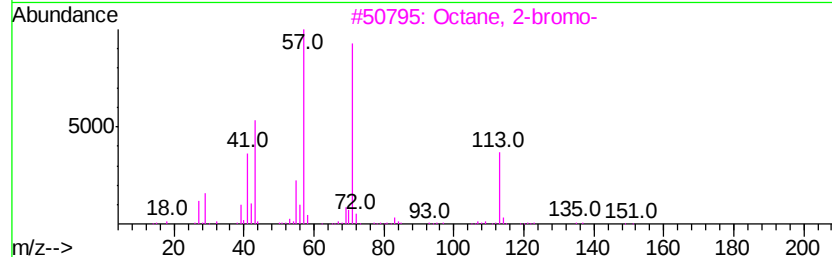
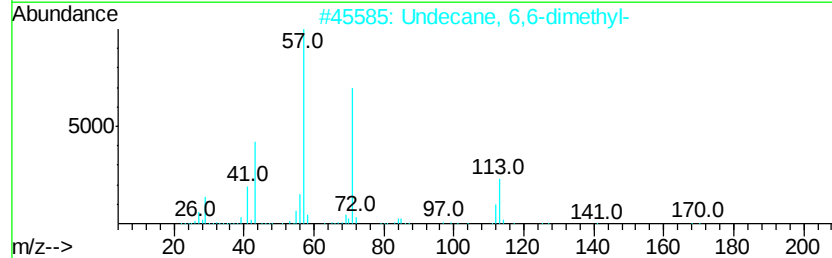
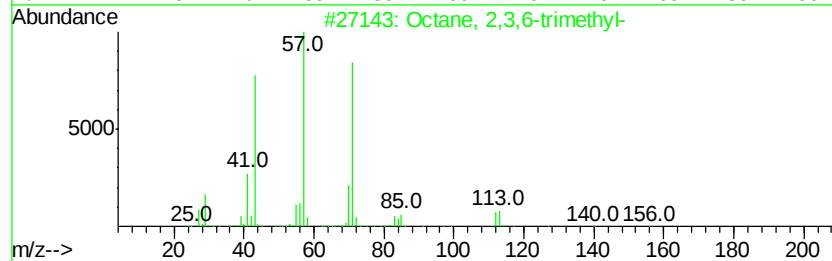
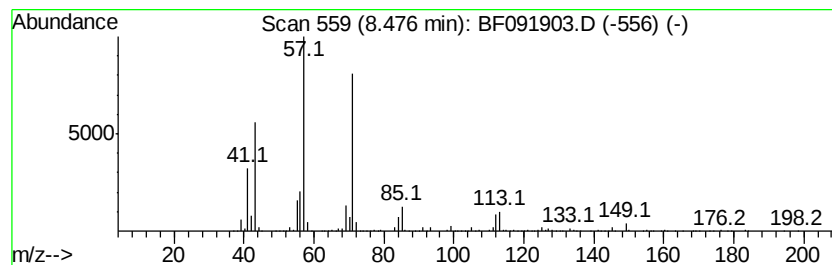
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Octane, 2,3,6-trimethyl- Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 8.48 | 43.16 ng | 6074960 | Naphthalene-d8   | 8.04 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,3,6-trimethyl- | 156 | C11H24  | 062016-33-5 | 72   |
| 2    |    | Undecane, 6,6-dimethyl-  | 184 | C13H28  | 017312-76-4 | 64   |
| 3    |    | Octane, 2-bromo-         | 192 | C8H17Br | 000557-35-7 | 59   |
| 4    |    | Hexane, 2,3,4-trimethyl- | 128 | C9H20   | 000921-47-1 | 53   |
| 5    |    | Decane, 5,6-dipropyl-    | 226 | C16H34  | 119209-20-0 | 50   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

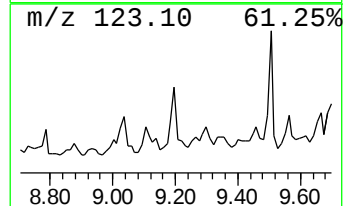
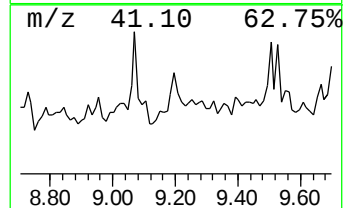
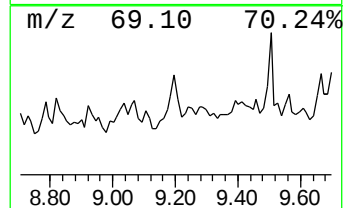
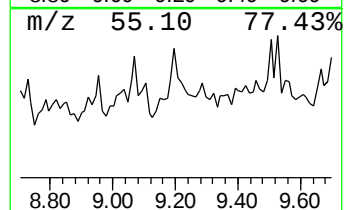
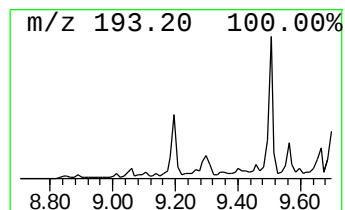
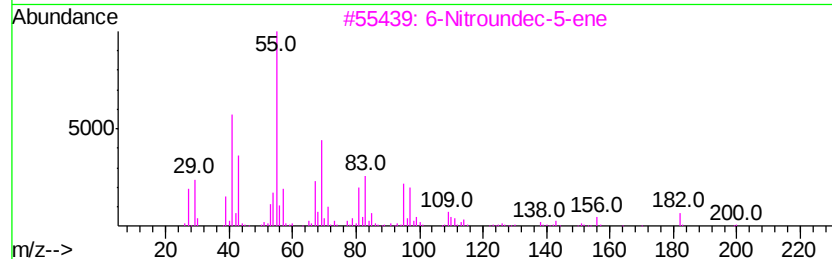
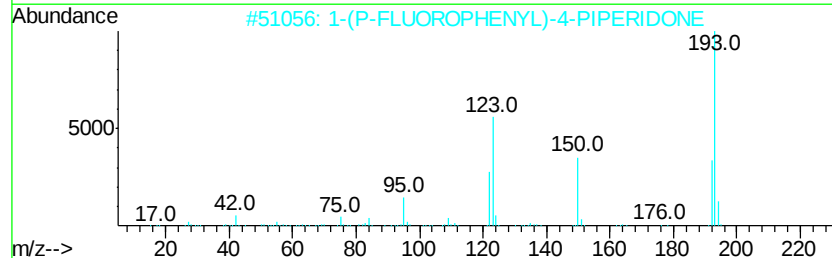
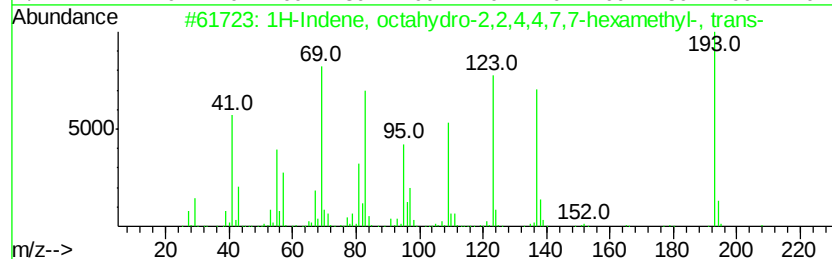
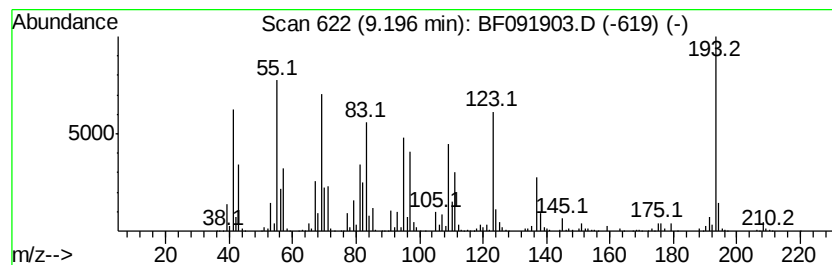
Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 17 unknown6.20 Concentration Rank 13

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.            |
|---------|----------|-------------------------------------|------------------|-----------------|
| 9.20    | 15.68 ng | 2579790                             | Acenaphthene-d10 | 9.79            |
| Hit# of | 5        | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |          | 1H-Indene, octahydro-2,2,4,4,7,7... | 208 C15H28       | 054832-83-6 47  |
| 2       |          | 1-(P-FLUOROPHENYL)-4-PIPERIDONE     | 193 C11H12FNO    | 1000238-56-7 38 |
| 3       |          | 6-Nitroundec-5-ene                  | 199 C11H21NO2    | 1000192-40-3 27 |
| 4       |          | Cyclohexane, 1-(cyclohexylmethyl... | 208 C15H28       | 054934-95-1 25  |
| 5       |          | Diallyldivinylsilane                | 164 C10H16Si     | 119901-88-1 22  |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

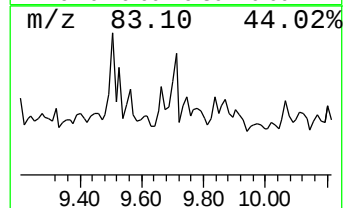
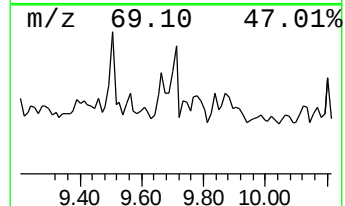
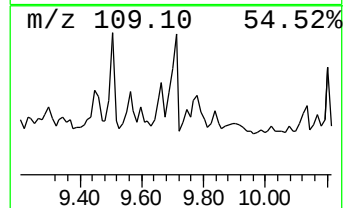
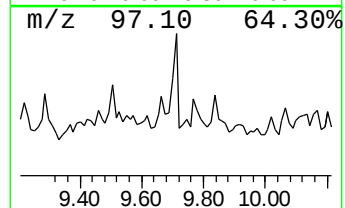
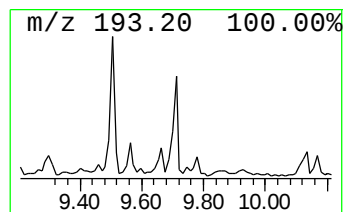
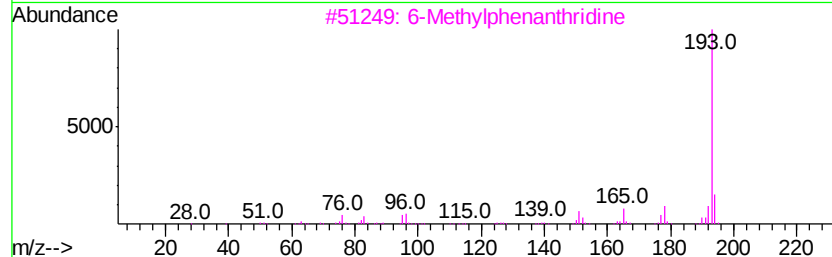
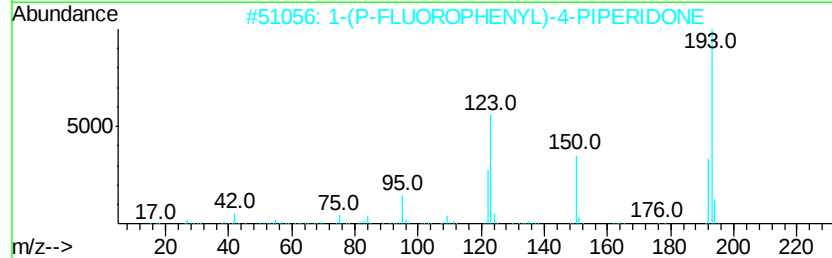
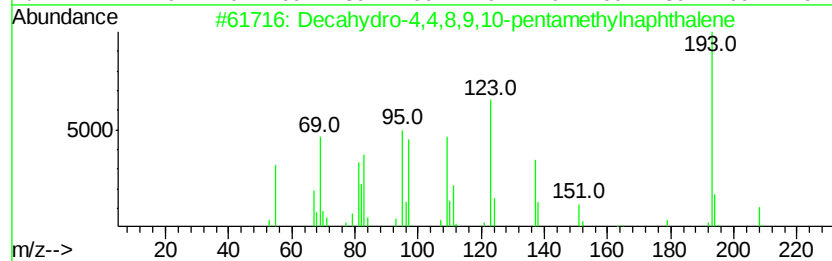
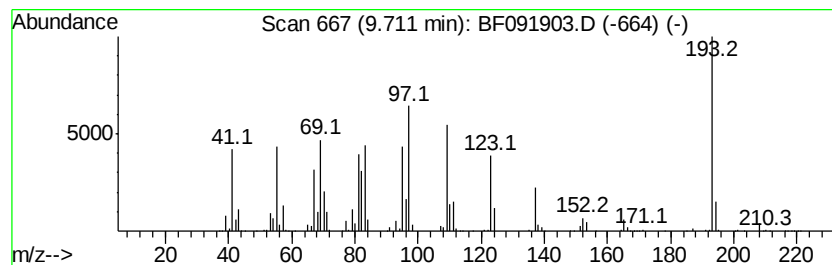
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 unknown9.71 Concentration Rank 8

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.71 | 22.23 ng | 3659180 | Acenaphthene-d10 | 9.79 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28    | 080655-44-3  | 40   |
| 2    |    | 1-(P-FLUOROPHENYL)-4-PIPERIDONE     | 193 | C11H12FNO | 1000238-56-7 | 35   |
| 3    |    | 6-Methylphenanthridine              | 193 | C14H11N   | 003955-65-5  | 14   |
| 4    |    | 2,6-Heptadienal, 2,4-dimethyl-      | 138 | C9H14O    | 085136-08-9  | 14   |
| 5    |    | Acridine, 9-methyl-                 | 193 | C14H11N   | 000611-64-3  | 14   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

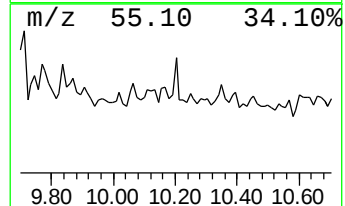
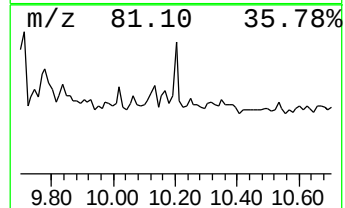
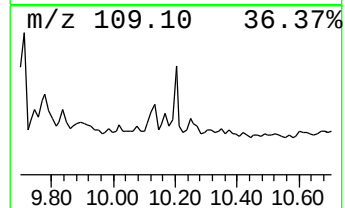
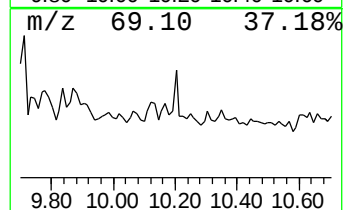
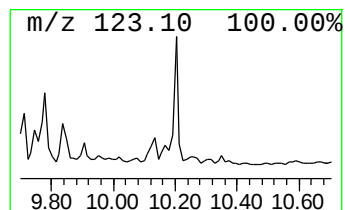
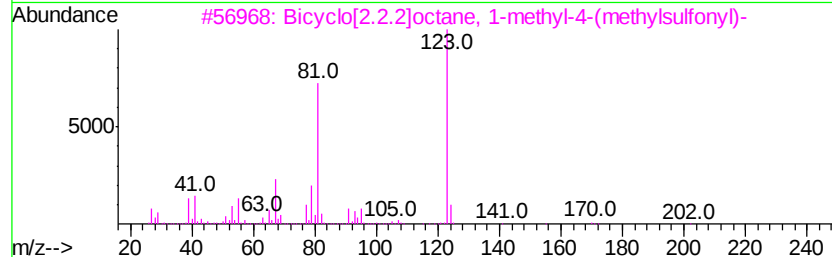
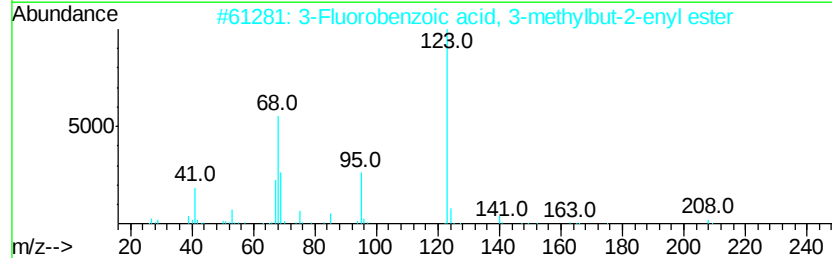
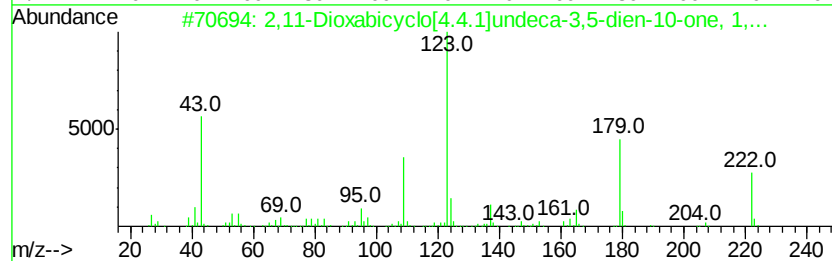
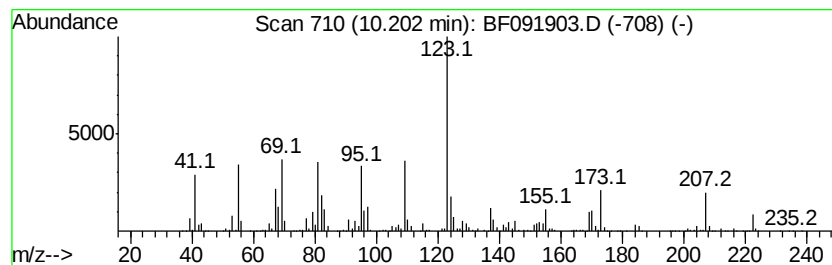
Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 unknown10.20 Concentration Rank 18

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.            |
|---------|-------------------------------------|--------------|------------------|-----------------|
| 10.20   | 13.42 ng                            | 2208360      | Acenaphthene-d10 | 9.79            |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual       |
| 1       | 2,11-Dioxabicyclo[4.4.1]undeca-3... | 222          | C13H18O3         | 070412-52-1 43  |
| 2       | 3-Fluorobenzoic acid, 3-methylbu... | 208          | C12H13F02        | 154559-38-3 38  |
| 3       | Bicyclo[2.2.2]octane, 1-methyl-4... | 202          | C10H18O2S        | 069855-48-7 38  |
| 4       | 4-Fluorobenzoic acid, 2,2-dimeth... | 210          | C12H15F02        | 069912-03-4 38  |
| 5       | 3,3,5,5-Tetramethylcyclohexyl me... | 236          | C11H22F02P       | 1000298-38-5 35 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
Data File : BF091903.D  
Acq On : 23 Dec 2016 4:12  
Operator : UM/SJ  
Sample : H6182-05  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

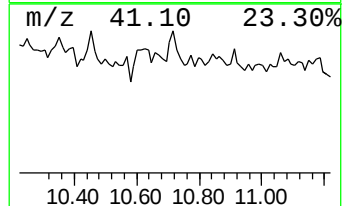
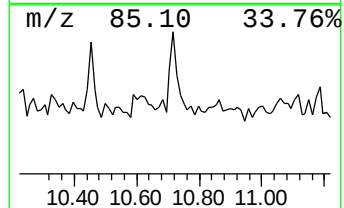
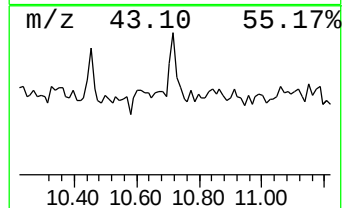
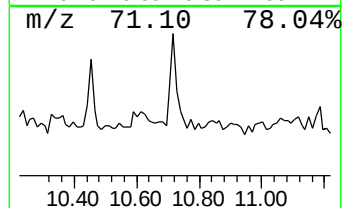
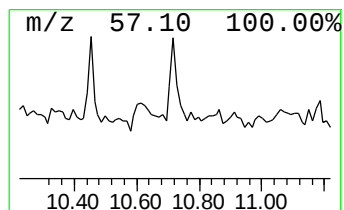
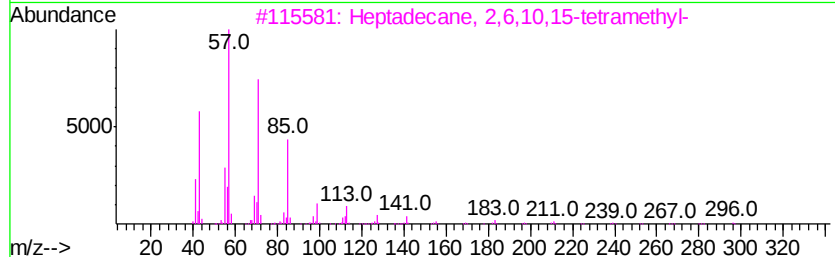
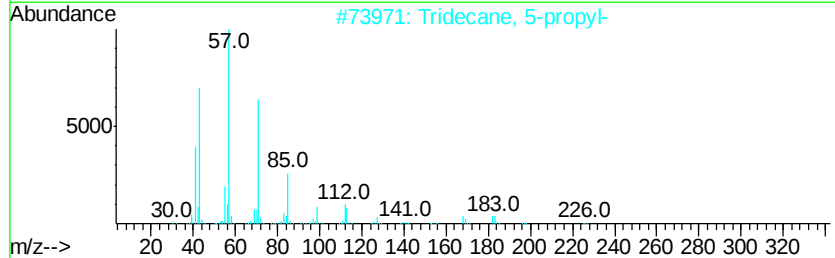
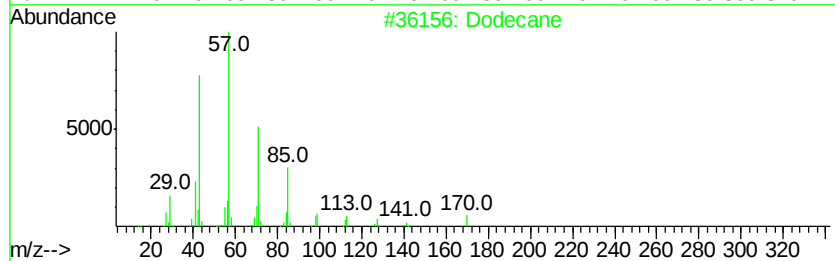
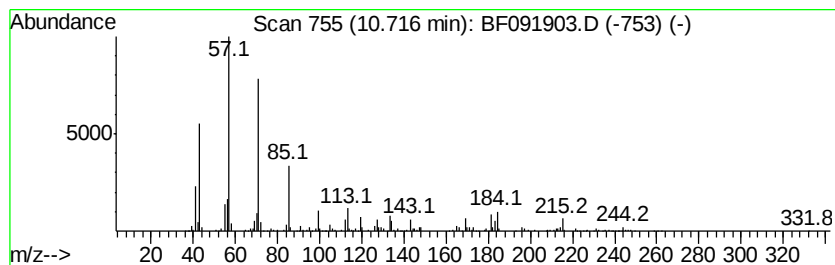
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Dodecane Concentration Rank 6

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 10.72 | 23.56 ng | 1337180 | Phenanthrene-d10 | 11.28 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane                            | 170 | C12H26  | 000112-40-3 | 83   |
| 2    |    | Tridecane, 5-propyl-                | 226 | C16H34  | 055045-11-9 | 83   |
| 3    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 72   |
| 4    |    | Tetradecane, 4-methyl-              | 212 | C15H32  | 025117-24-2 | 72   |
| 5    |    | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42  | 000638-36-8 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122216\  
 Data File : BF091903.D  
 Acq On : 23 Dec 2016 4:12  
 Operator : UM/SJ  
 Sample : H6182-05  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-51(11.5-13.5)-121916

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.93  | 38.8    | ng    | 3780930  | 1                     | 6.75  | 1946770 | 20.0 |
| 2-Octene, 2,6-dim... | 6.27  | 15.9    | ng    | 1545740  | 1                     | 6.75  | 1946770 | 20.0 |
| unknown6.54          | 6.54  | 73.3    | ng    | 7132780  | 1                     | 6.75  | 1946770 | 20.0 |
| Oxirane, [(dodecy... | 6.82  | 14.5    | ng    | 1415050  | 1                     | 6.75  | 1946770 | 20.0 |
| 5-Undecene           | 7.02  | 23.0    | ng    | 2239060  | 1                     | 6.75  | 1946770 | 20.0 |
| Naphthalene, deca... | 7.14  | 13.9    | ng    | 1356430  | 1                     | 6.75  | 1946770 | 20.0 |
| unknown7.40          | 7.40  | 18.3    | ng    | 2580370  | 2                     | 8.04  | 2815190 | 20.0 |
| cis-Decalin, 2-sy... | 7.56  | 15.2    | ng    | 2134730  | 2                     | 8.04  | 2815190 | 20.0 |
| Naphthalene, deca... | 7.68  | 28.0    | ng    | 3937350  | 2                     | 8.04  | 2815190 | 20.0 |
| Benzene, 1-methyl... | 7.78  | 18.1    | ng    | 2545110  | 2                     | 8.04  | 2815190 | 20.0 |
| Decane, 2,4,6-tri... | 7.93  | 16.0    | ng    | 2249190  | 2                     | 8.04  | 2815190 | 20.0 |
| Cyclohexane, 2-bu... | 8.25  | 11.9    | ng    | 1682160  | 2                     | 8.04  | 2815190 | 20.0 |
| trans,trans-3-Eth... | 8.33  | 15.2    | ng    | 2136770  | 2                     | 8.04  | 2815190 | 20.0 |
| Cyclododecene, (E)-  | 8.37  | 12.7    | ng    | 1782820  | 2                     | 8.04  | 2815190 | 20.0 |
| Octane, 2,3,6-tri... | 8.48  | 43.2    | ng    | 6074960  | 2                     | 8.04  | 2815190 | 20.0 |
| unknown6.20          | 9.20  | 15.7    | ng    | 2579790  | 3                     | 9.79  | 3291410 | 20.0 |
| unknown9.71          | 9.71  | 22.2    | ng    | 3659180  | 3                     | 9.79  | 3291410 | 20.0 |
| unknown10.20         | 10.20 | 13.4    | ng    | 2208360  | 3                     | 9.79  | 3291410 | 20.0 |
| Dodecane             | 10.72 | 23.6    | ng    | 1337180  | 4                     | 11.28 | 1135050 | 20.0 |