

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
 Data File : BF083450.D  
 Acq On : 3 Dec 2015 8:25  
 Operator : UM/IZ  
 Sample : G4582-06  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-P3WC-04(10-13)

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-BF113015.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         | 4.659       | 257           | 260         | 268          | rVB      | 1122806        | 2199817       | 26.71%          | 1.345%        |
| 2         | 4.921       | 281           | 283         | 286          | rBV      | 462580         | 628580        | 7.63%           | 0.384%        |
| 3         | 5.127       | 299           | 301         | 304          | rBV      | 3769276        | 5651047       | 68.62%          | 3.455%        |
| 4         | 6.053       | 380           | 382         | 383          | rBV      | 263720         | 353134        | 4.29%           | 0.216%        |
| 5         | 6.133       | 387           | 389         | 392          | rVB      | 505031         | 463244        | 5.63%           | 0.283%        |
| 6         | 6.213       | 393           | 396         | 399          | rBV      | 4682323        | 5767592       | 70.04%          | 3.527%        |
| 7         | 6.316       | 402           | 405         | 408          | rBV      | 5636176        | 5525617       | 67.10%          | 3.379%        |
| 8         | 6.362       | 408           | 409         | 413          | rVB      | 1232274        | 1344796       | 16.33%          | 0.822%        |
| 9         | 6.533       | 423           | 424         | 426          | rBV      | 718684         | 977488        | 11.87%          | 0.598%        |
| 10        | 6.693       | 436           | 438         | 443          | rVB2     | 3616806        | 5667617       | 68.82%          | 3.465%        |
| 11        | 6.796       | 445           | 447         | 449          | rBV2     | 306627         | 464813        | 5.64%           | 0.284%        |
| 12        | 6.876       | 452           | 454         | 455          | rBV      | 597708         | 632142        | 7.68%           | 0.387%        |
| 13        | 7.047       | 464           | 469         | 470          | rBV2     | 151484         | 381371        | 4.63%           | 0.233%        |
| 14        | 7.116       | 470           | 475         | 477          | rBV2     | 3558671        | 4363157       | 52.98%          | 2.668%        |
| 15        | 7.356       | 494           | 496         | 498          | rVB      | 512774         | 597467        | 7.26%           | 0.365%        |
| 16        | 7.470       | 503           | 506         | 507          | rBV      | 402934         | 510941        | 6.20%           | 0.312%        |
| 17        | 7.505       | 507           | 509         | 510          | rVB2     | 400961         | 347486        | 4.22%           | 0.212%        |
| 18        | 7.573       | 513           | 515         | 517          | rBV3     | 709028         | 1030584       | 12.51%          | 0.630%        |
| 19        | 7.607       | 517           | 518         | 521          | rVB2     | 430757         | 619668        | 7.52%           | 0.379%        |
| 20        | 7.653       | 521           | 522         | 525          | rVB2     | 244896         | 332455        | 4.04%           | 0.203%        |
| 21        | 7.859       | 533           | 540         | 542          | rBV2     | 4255160        | 8119538       | 98.60%          | 4.965%        |
| 22        | 7.916       | 543           | 545         | 548          | rVB3     | 585350         | 698402        | 8.48%           | 0.427%        |
| 23        | 8.133       | 560           | 564         | 565          | rBV4     | 243629         | 428622        | 5.20%           | 0.262%        |
| 24        | 8.190       | 567           | 569         | 571          | rVB2     | 270998         | 357444        | 4.34%           | 0.219%        |
| 25        | 8.236       | 571           | 573         | 574          | rBV      | 285195         | 379949        | 4.61%           | 0.232%        |
| 26        | 8.270       | 574           | 576         | 580          | rBV3     | 584755         | 1289979       | 15.66%          | 0.789%        |
| 27        | 8.339       | 580           | 582         | 584          | rVB2     | 423654         | 549131        | 6.67%           | 0.336%        |
| 28        | 8.408       | 584           | 588         | 590          | rBV5     | 184066         | 467561        | 5.68%           | 0.286%        |
| 29        | 8.476       | 590           | 594         | 597          | rBV6     | 349997         | 818727        | 9.94%           | 0.501%        |
| 30        | 8.545       | 597           | 600         | 602          | rVB      | 2414364        | 2430458       | 29.51%          | 1.486%        |
| 31        | 8.648       | 605           | 609         | 611          | rBV      | 2978236        | 4470051       | 54.28%          | 2.733%        |
| 32        | 8.750       | 614           | 618         | 619          | rBV2     | 357154         | 589601        | 7.16%           | 0.361%        |
| 33        | 8.808       | 622           | 623         | 625          | rVB2     | 384754         | 366127        | 4.45%           | 0.224%        |
| 34        | 8.876       | 625           | 629         | 630          | rBV      | 659409         | 1066671       | 12.95%          | 0.652%        |

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 ALS Vial : 37 Sample Multiplier: 1

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 ClientSampleId :  
 SB-P3WC-04(10-13)

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-BF113015.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |     |     |     |      |         |         |         |        |
|----|--------|-----|-----|-----|------|---------|---------|---------|--------|
| 35 | 8.910  | 630 | 632 | 635 | rVB  | 4985835 | 5065362 | 61.51%  | 3.097% |
| 36 | 9.002  | 637 | 640 | 643 | rBV2 | 970251  | 1458935 | 17.72%  | 0.892% |
| 37 | 9.105  | 646 | 649 | 652 | rVB  | 1349708 | 2167673 | 26.32%  | 1.325% |
| 38 | 9.173  | 652 | 655 | 657 | rBV  | 1591136 | 2476282 | 30.07%  | 1.514% |
| 39 | 9.242  | 658 | 661 | 666 | rBV  | 2758305 | 4450325 | 54.04%  | 2.721% |
| 40 | 9.310  | 666 | 667 | 669 | rVV2 | 1053496 | 1542893 | 18.74%  | 0.943% |
| 41 | 9.356  | 669 | 671 | 675 | rVB  | 1548252 | 1990295 | 24.17%  | 1.217% |
| 42 | 9.436  | 675 | 678 | 681 | rVB2 | 1511922 | 1550136 | 18.82%  | 0.948% |
| 43 | 9.539  | 685 | 687 | 688 | rBV  | 282028  | 388892  | 4.72%   | 0.238% |
| 44 | 9.573  | 688 | 690 | 692 | rBV2 | 1672197 | 2323606 | 28.22%  | 1.421% |
| 45 | 9.608  | 692 | 693 | 695 | rVV  | 3617431 | 3807277 | 46.23%  | 2.328% |
| 46 | 9.688  | 698 | 700 | 702 | rBV  | 813243  | 1231762 | 14.96%  | 0.753% |
| 47 | 9.779  | 705 | 708 | 710 | rBV3 | 1130470 | 1771257 | 21.51%  | 1.083% |
| 48 | 9.825  | 710 | 712 | 713 | rVV  | 886317  | 820461  | 9.96%   | 0.502% |
| 49 | 9.859  | 713 | 715 | 716 | rVB  | 669205  | 743184  | 9.02%   | 0.454% |
| 50 | 9.893  | 716 | 718 | 720 | rBV  | 1002753 | 1247081 | 15.14%  | 0.763% |
| 51 | 9.928  | 720 | 721 | 724 | rVB2 | 606071  | 662007  | 8.04%   | 0.405% |
| 52 | 9.985  | 724 | 726 | 727 | rBV2 | 813286  | 1091206 | 13.25%  | 0.667% |
| 53 | 10.031 | 728 | 730 | 731 | rVV  | 1017895 | 952225  | 11.56%  | 0.582% |
| 54 | 10.088 | 731 | 735 | 736 | rVV3 | 866285  | 1296711 | 15.75%  | 0.793% |
| 55 | 10.122 | 736 | 738 | 741 | rVV  | 2539869 | 2651898 | 32.20%  | 1.622% |
| 56 | 10.202 | 741 | 745 | 746 | rVV2 | 560277  | 1043508 | 12.67%  | 0.638% |
| 57 | 10.248 | 746 | 749 | 751 | rVV3 | 1515282 | 2900682 | 35.22%  | 1.774% |
| 58 | 10.362 | 755 | 759 | 761 | rBV4 | 2712359 | 4415631 | 53.62%  | 2.700% |
| 59 | 10.408 | 761 | 763 | 766 | rBV4 | 226255  | 402486  | 4.89%   | 0.246% |
| 60 | 10.499 | 769 | 771 | 772 | rBV  | 488136  | 768196  | 9.33%   | 0.470% |
| 61 | 10.522 | 772 | 773 | 776 | rVV  | 1285087 | 1633775 | 19.84%  | 0.999% |
| 62 | 10.682 | 785 | 787 | 789 | rBV  | 590695  | 949574  | 11.53%  | 0.581% |
| 63 | 10.716 | 789 | 790 | 792 | rVB  | 894820  | 846102  | 10.27%  | 0.517% |
| 64 | 10.876 | 799 | 804 | 805 | rBV4 | 359299  | 834850  | 10.14%  | 0.510% |
| 65 | 10.991 | 813 | 814 | 816 | rVV  | 424269  | 540496  | 6.56%   | 0.330% |
| 66 | 11.036 | 816 | 818 | 821 | rVB  | 1148478 | 1525587 | 18.53%  | 0.933% |
| 67 | 11.151 | 822 | 828 | 831 | rBV2 | 5208460 | 8234933 | 100.00% | 5.035% |
| 68 | 11.208 | 831 | 833 | 835 | rVV  | 2311133 | 2396864 | 29.11%  | 1.466% |
| 69 | 11.254 | 835 | 837 | 839 | rVB  | 335864  | 401498  | 4.88%   | 0.245% |
| 70 | 11.402 | 848 | 850 | 852 | rBV  | 275371  | 333921  | 4.05%   | 0.204% |
| 71 | 11.459 | 853 | 855 | 857 | rVV2 | 325969  | 510192  | 6.20%   | 0.312% |

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Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

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-BF113015.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 11.608 | 866  | 868  | 872  | rVB4 | 249565  | 455205  | 5.53%  | 0.278% |
| 73  | 11.722 | 875  | 878  | 880  | rBV  | 1565316 | 2139674 | 25.98% | 1.308% |
| 74  | 11.756 | 880  | 881  | 884  | rVB  | 1552046 | 1584515 | 19.24% | 0.969% |
| 75  | 11.814 | 884  | 886  | 888  | rBV  | 761469  | 964554  | 11.71% | 0.590% |
| 76  | 11.859 | 888  | 890  | 892  | rVV  | 1950269 | 2912628 | 35.37% | 1.781% |
| 77  | 11.894 | 892  | 893  | 895  | rVV  | 1027032 | 815058  | 9.90%  | 0.498% |
| 78  | 12.111 | 909  | 912  | 919  | rVB4 | 561155  | 1500936 | 18.23% | 0.918% |
| 79  | 12.442 | 938  | 941  | 943  | rVV2 | 960539  | 1557771 | 18.92% | 0.953% |
| 80  | 12.488 | 943  | 945  | 947  | rVV  | 643783  | 1080073 | 13.12% | 0.660% |
| 81  | 12.568 | 949  | 952  | 954  | rVB  | 270674  | 498448  | 6.05%  | 0.305% |
| 82  | 12.648 | 957  | 959  | 961  | rVV  | 1918971 | 2415369 | 29.33% | 1.477% |
| 83  | 12.774 | 968  | 970  | 974  | rVB  | 746551  | 1124383 | 13.65% | 0.688% |
| 84  | 12.957 | 981  | 986  | 989  | rVV  | 2135824 | 3697549 | 44.90% | 2.261% |
| 85  | 13.208 | 1005 | 1008 | 1011 | rVB  | 2992975 | 3977898 | 48.31% | 2.432% |
| 86  | 13.288 | 1012 | 1015 | 1017 | rBV2 | 282776  | 495326  | 6.01%  | 0.303% |
| 87  | 13.402 | 1022 | 1025 | 1027 | rBV2 | 254575  | 621842  | 7.55%  | 0.380% |
| 88  | 13.437 | 1027 | 1028 | 1032 | rVB  | 544117  | 729048  | 8.85%  | 0.446% |
| 89  | 13.539 | 1035 | 1037 | 1039 | rVB  | 413318  | 501742  | 6.09%  | 0.307% |
| 90  | 13.585 | 1039 | 1041 | 1043 | rVB  | 384632  | 427431  | 5.19%  | 0.261% |
| 91  | 13.711 | 1050 | 1052 | 1054 | rVV  | 238030  | 358736  | 4.36%  | 0.219% |
| 92  | 13.757 | 1054 | 1056 | 1061 | rVB  | 275346  | 541813  | 6.58%  | 0.331% |
| 93  | 14.397 | 1109 | 1112 | 1116 | rVB3 | 146537  | 372468  | 4.52%  | 0.228% |
| 94  | 14.728 | 1137 | 1141 | 1143 | rVV2 | 1162996 | 2680153 | 32.55% | 1.639% |
| 95  | 14.774 | 1143 | 1145 | 1147 | rVB  | 779520  | 983555  | 11.94% | 0.601% |
| 96  | 15.345 | 1191 | 1195 | 1197 | rVV  | 256813  | 507924  | 6.17%  | 0.311% |
| 97  | 16.283 | 1274 | 1277 | 1283 | rVB  | 445959  | 1117458 | 13.57% | 0.683% |
| 98  | 16.648 | 1306 | 1309 | 1312 | rVB  | 316104  | 439838  | 5.34%  | 0.269% |
| 99  | 16.728 | 1312 | 1316 | 1319 | rBV  | 521178  | 839932  | 10.20% | 0.514% |
| 100 | 16.797 | 1319 | 1322 | 1324 | rBV  | 618724  | 884754  | 10.74% | 0.541% |

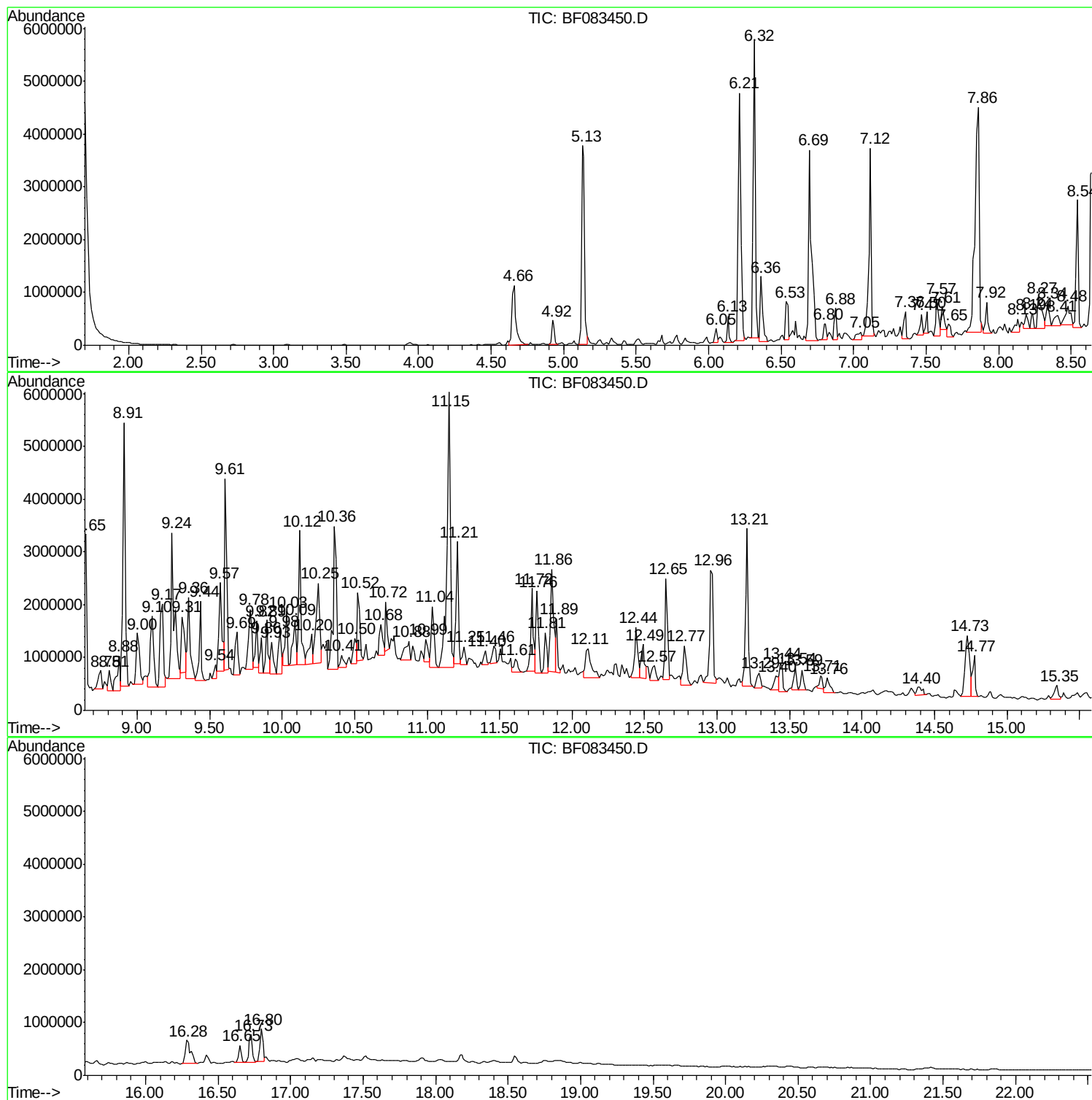
Sum of corrected areas: 163545121

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ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.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\BF120215\  
Data File : BF083450.D  
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Sample : G4582-06  
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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

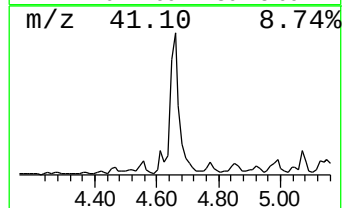
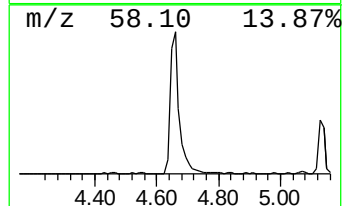
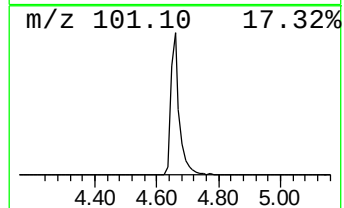
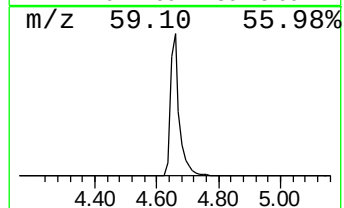
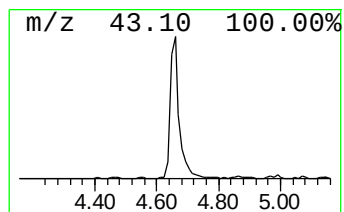
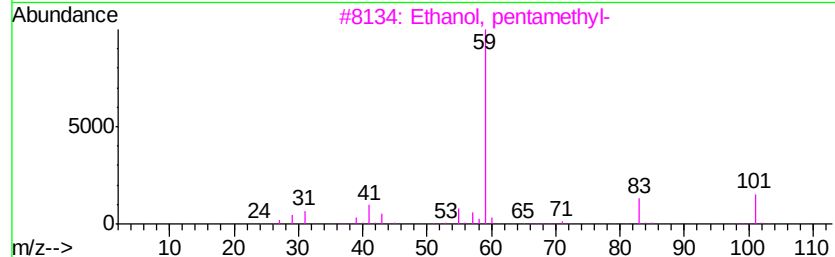
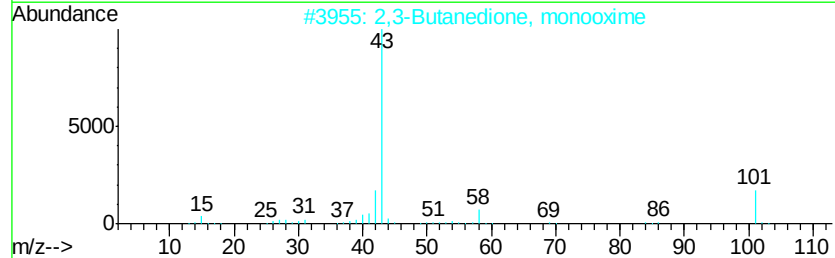
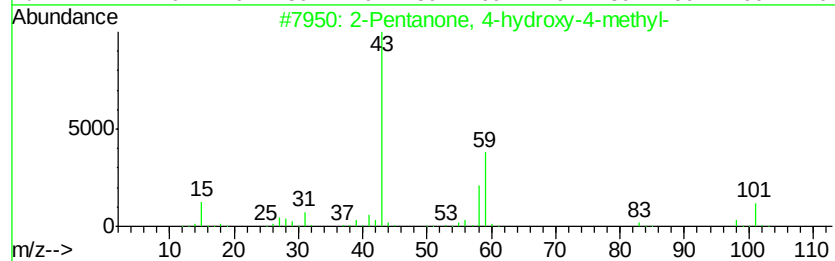
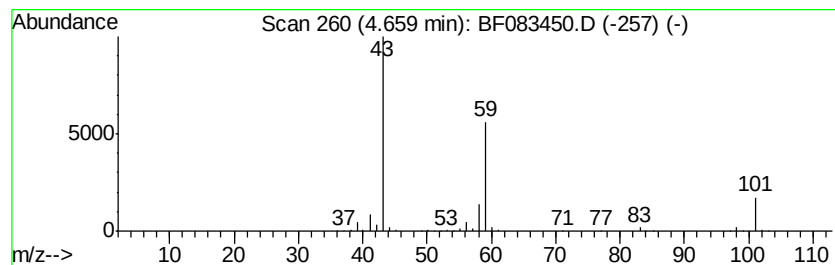
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.66 | 45.01 ng | 2199820 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# of | 5                                   | Tentative ID | MW      | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|---------|-------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-    | 116          | C6H12O2 | 000123-42-2 | 50   |      |
| 2       | 2,3-Butanedione, monooxime          | 101          | C4H7NO2 | 000057-71-6 | 9    |      |
| 3       | Ethanol, pentamethyl-               | 116          | C7H16O  | 000594-83-2 | 9    |      |
| 4       | 2-Propanol, 2-methyl-               | 74           | C4H10O  | 000075-65-0 | 9    |      |
| 5       | Propanoic acid, 2-nitro-, methyl... | 133          | C4H7NO4 | 006118-50-9 | 9    |      |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

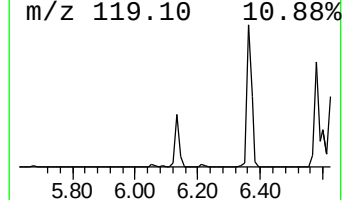
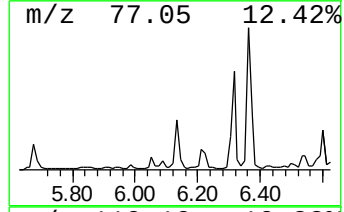
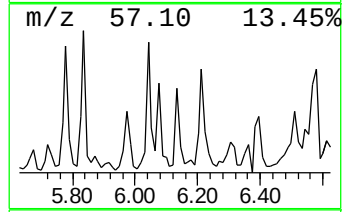
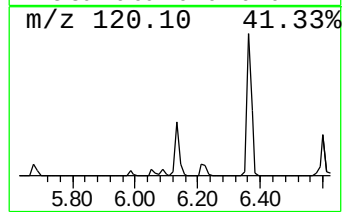
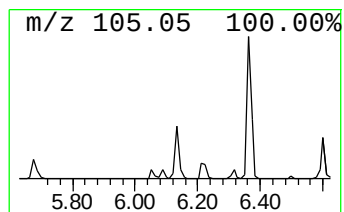
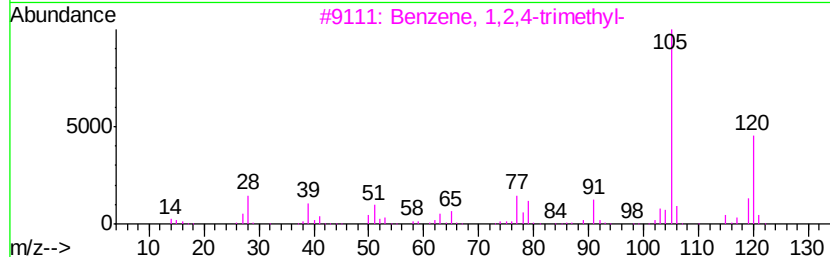
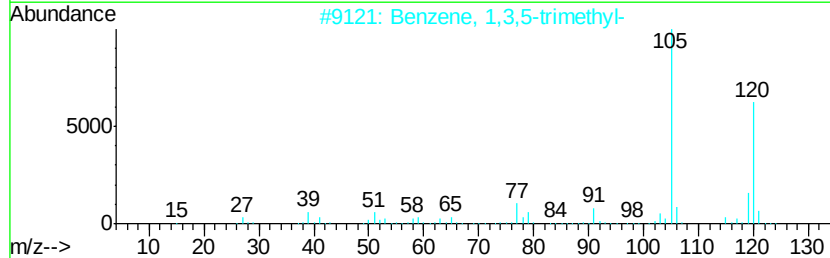
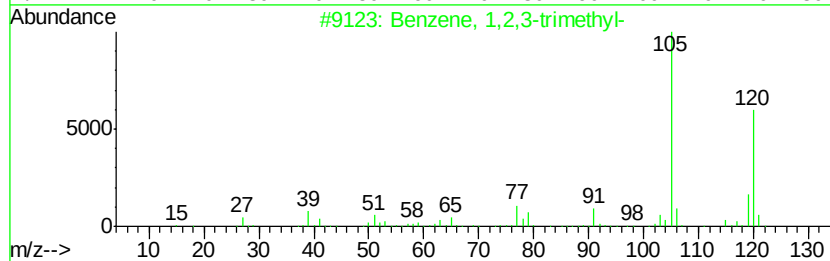
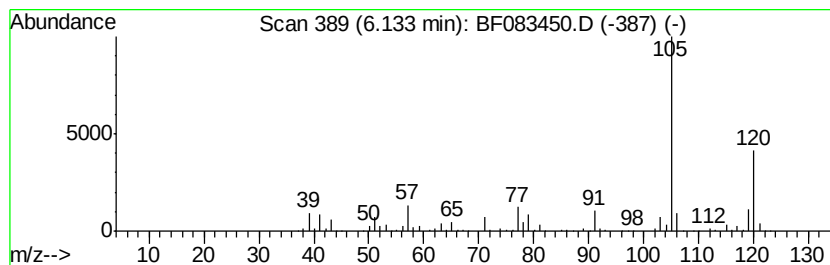
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Benzene, 1,2,3-trimethyl- Concentration Rank 17

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.13 | 9.48 ng | 463244 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 94   |
| 2    |    | Benzene, 1,3,5-trimethyl-  | 120 | C9H12   | 000108-67-8 | 93   |
| 3    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 93   |
| 4    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 87   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

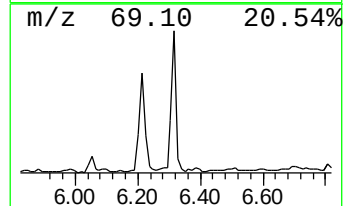
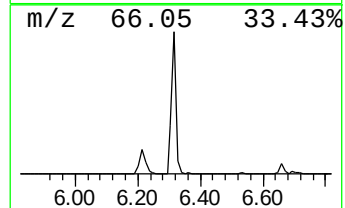
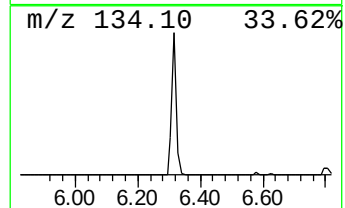
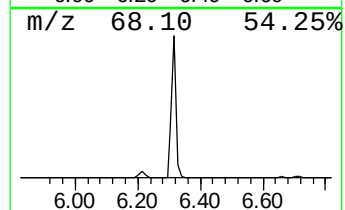
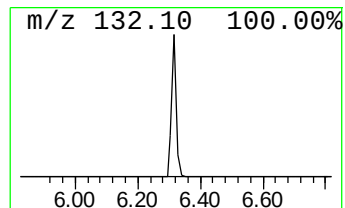
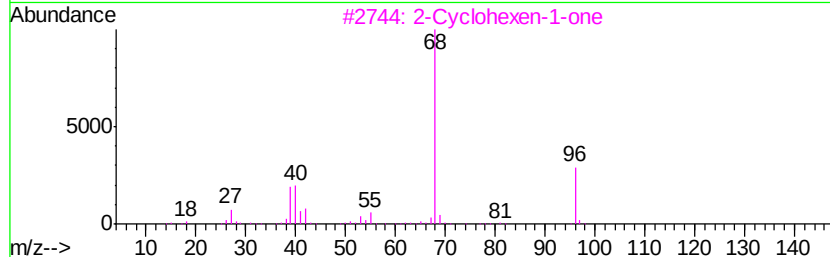
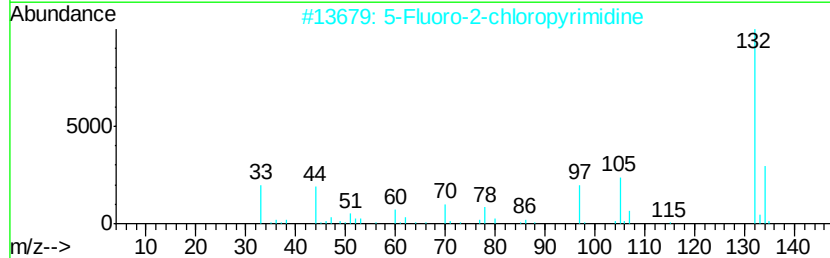
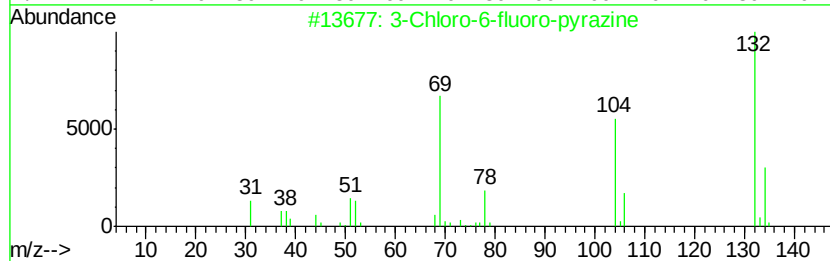
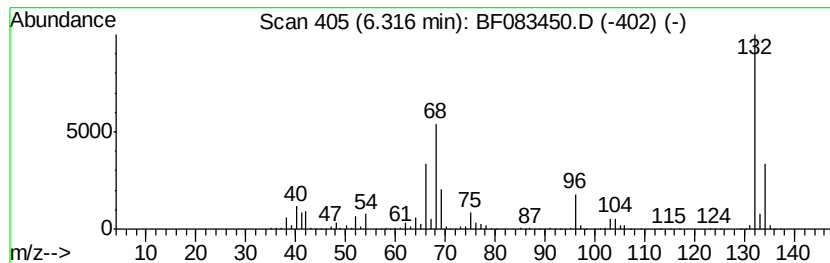
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown6.32 Concentration Rank 2

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.32 | 113.06 ng | 5525620 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | 2-Cyclohexen-1-one               | 96  | C6H8O     | 000930-68-7  | 10   |
| 4    |    | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |
| 5    |    | Benzene, 1,2,4-trifluoro-        | 132 | C6H3F3    | 000367-23-7  | 9    |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

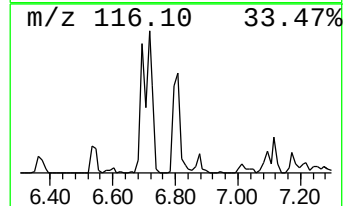
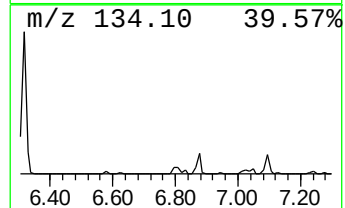
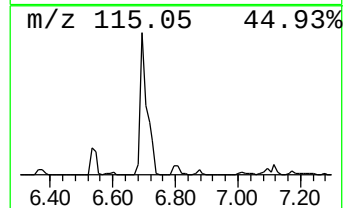
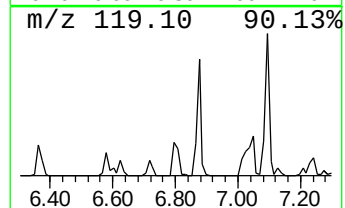
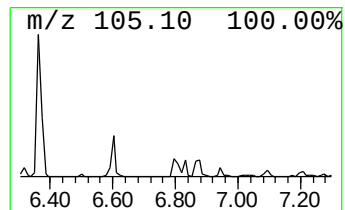
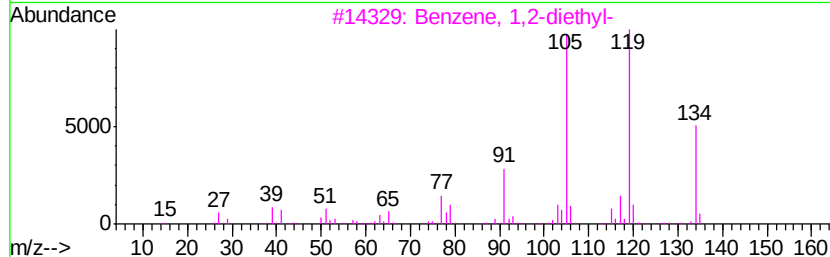
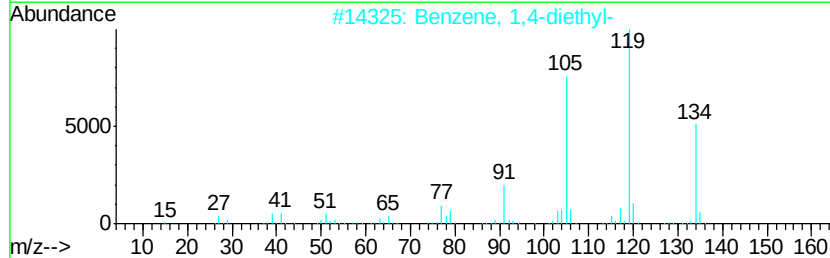
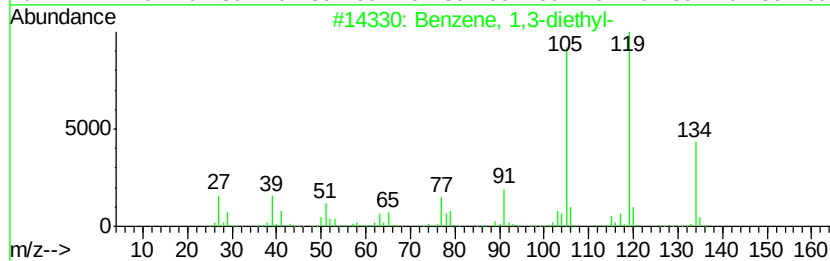
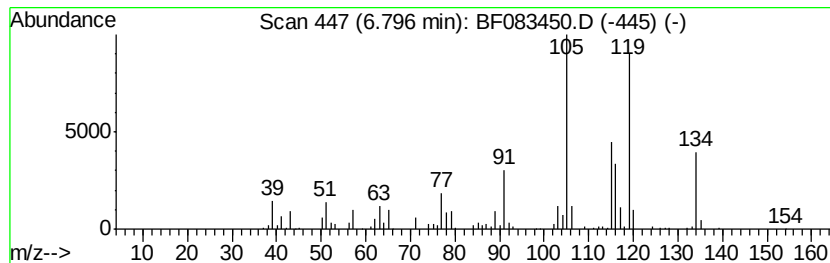
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Benzene, 1,3-diethyl- Concentration Rank 16

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 6.80 | 9.51 ng | 464813 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,3-diethyl-               | 134 | C10H14  | 000141-93-5 | 95   |
| 2    |    | Benzene, 1,4-diethyl-               | 134 | C10H14  | 000105-05-5 | 86   |
| 3    |    | Benzene, 1,2-diethyl-               | 134 | C10H14  | 000135-01-3 | 70   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 64   |
| 5    |    | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14  | 000527-84-4 | 60   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

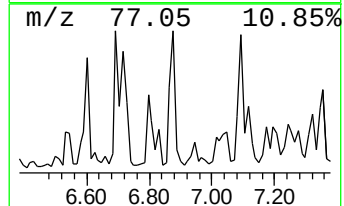
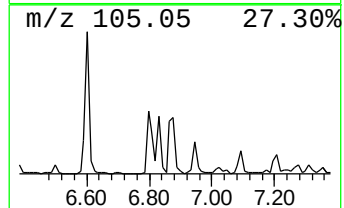
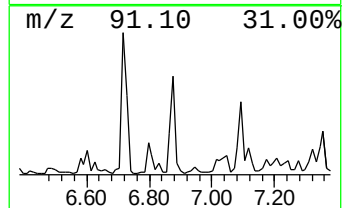
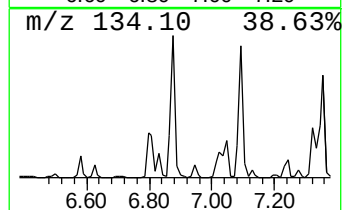
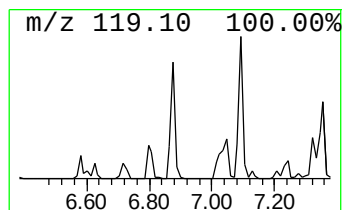
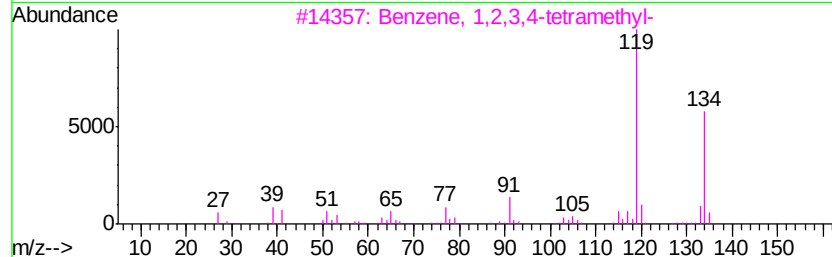
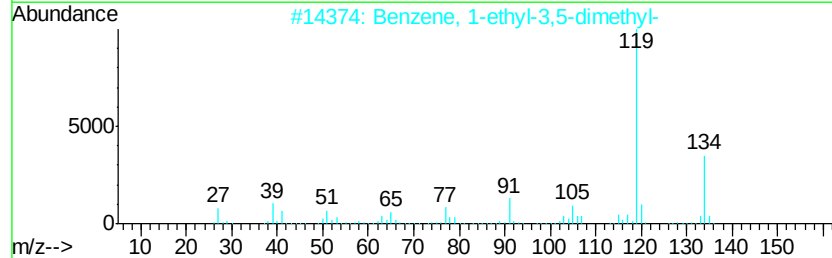
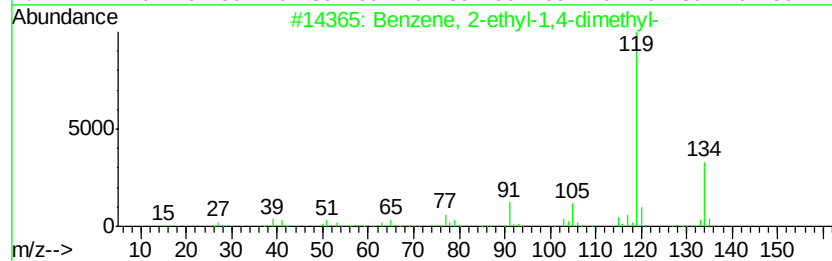
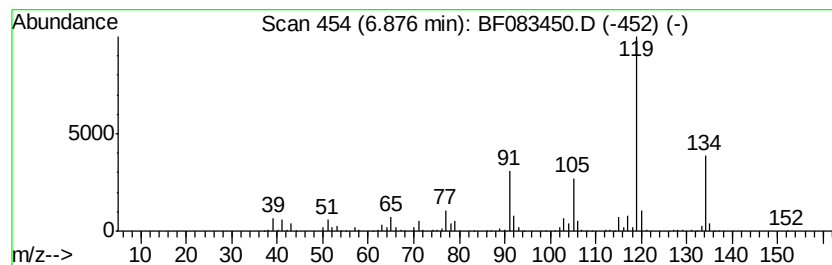
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 10

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.88 | 12.93 ng | 632142 | 1,4-Dichlorobenzene-d4 | 6.54 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 93   |
| 2    |    | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 90   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 90   |
| 4    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 90   |
| 5    |    | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14  | 002870-04-4 | 87   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

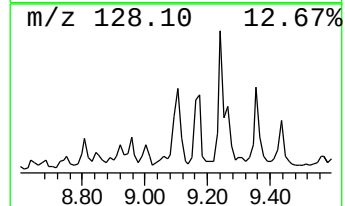
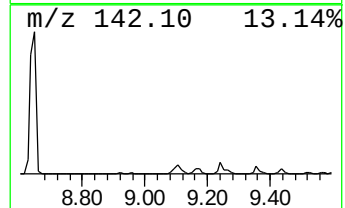
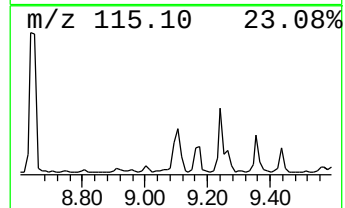
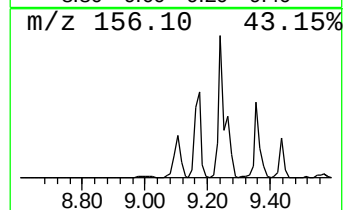
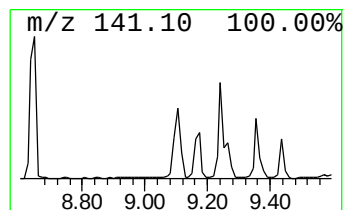
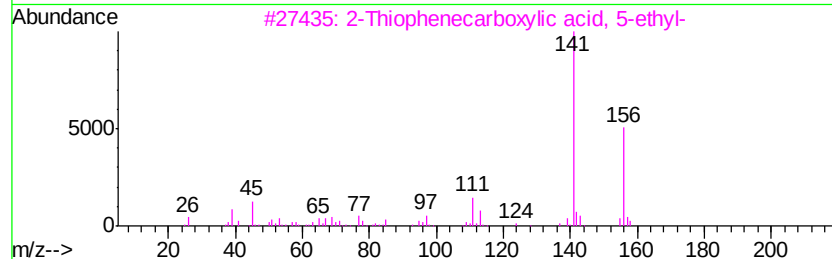
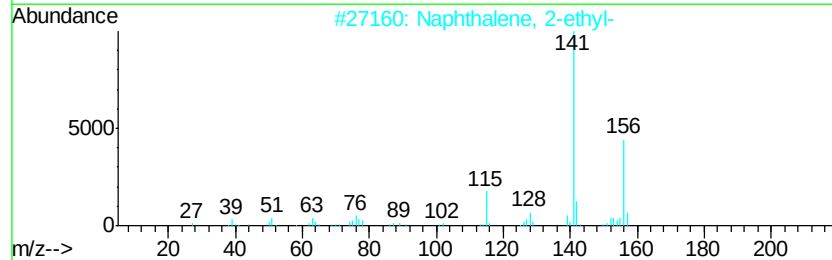
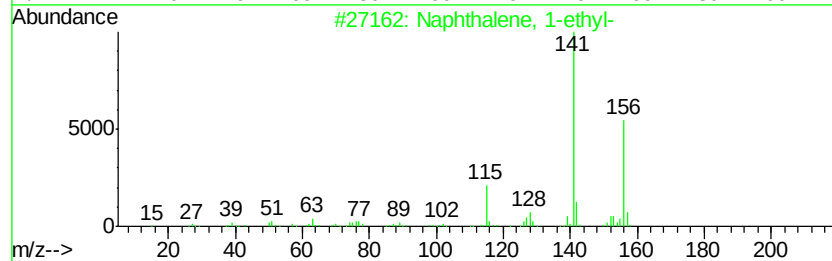
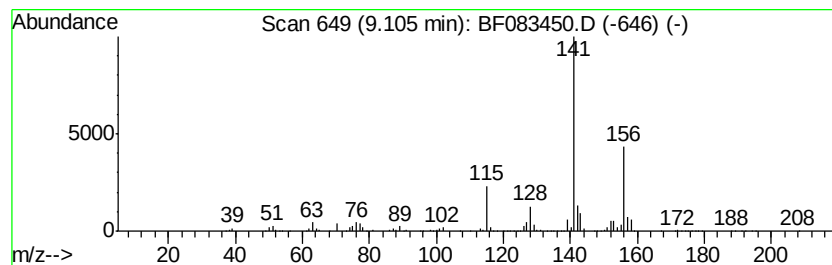
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphthalene, 1-ethyl- Concentration Rank 8

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.10 | 18.66 ng | 2167670 | Acenaphthene-d10 | 9.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-ethyl-               | 156 | C12H12  | 001127-76-0 | 95   |
| 2    |    | Naphthalene, 2-ethyl-               | 156 | C12H12  | 000939-27-5 | 93   |
| 3    |    | 2-Thiophenecarboxylic acid, 5-et... | 156 | C7H8O2S | 023229-72-3 | 59   |
| 4    |    | Naphthalene, 1-propyl-              | 170 | C13H14  | 002765-18-6 | 50   |
| 5    |    | Naphthalene, 2,3-dimethyl-          | 156 | C12H12  | 000581-40-8 | 49   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

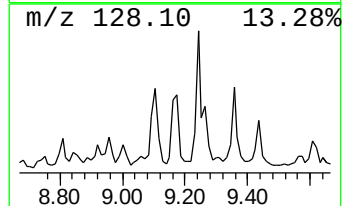
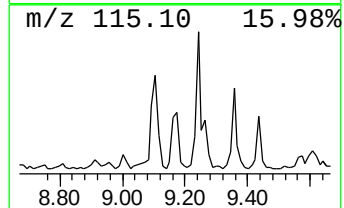
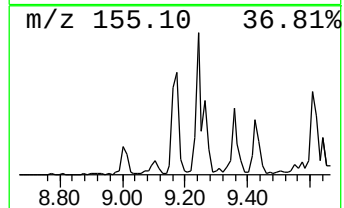
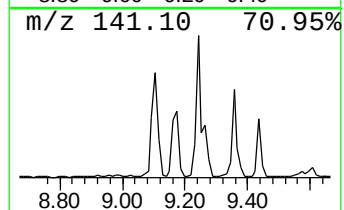
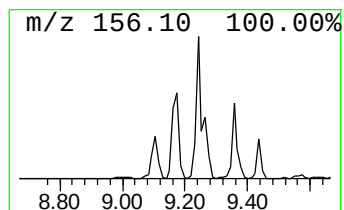
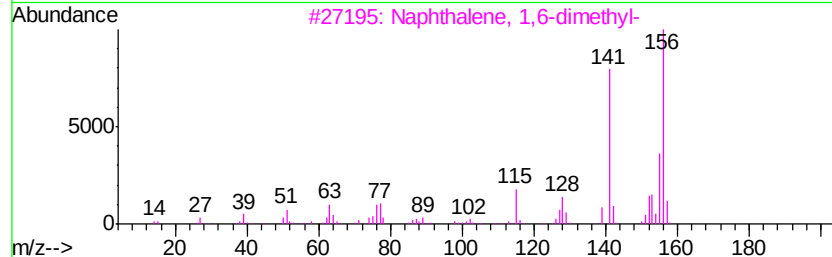
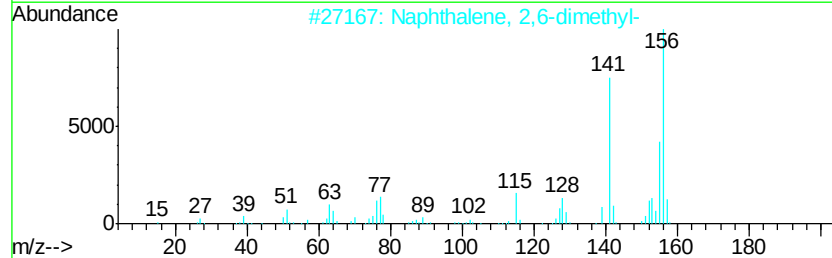
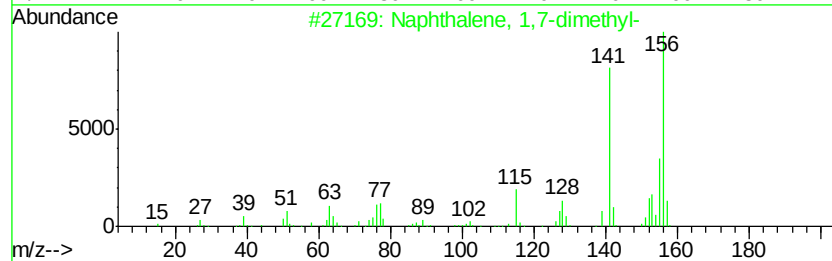
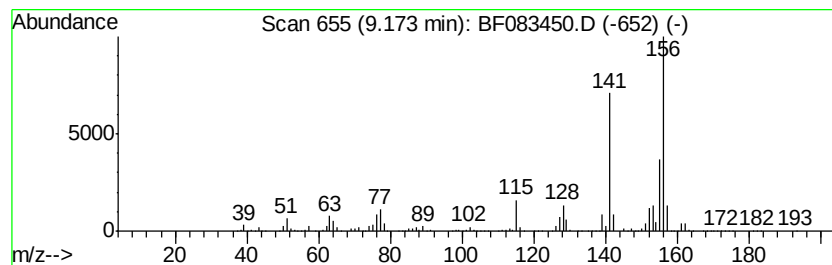
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Naphthalene, 1,7-dimethyl- Concentration Rank 7

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.17 | 21.31 ng | 2476280 | Acenaphthene-d10 | 9.57 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 98   |
| 2    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 3    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 5    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

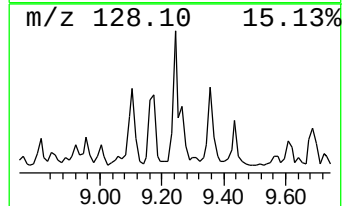
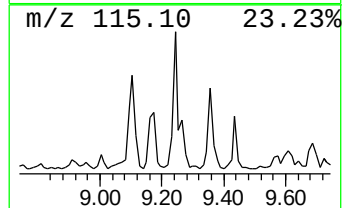
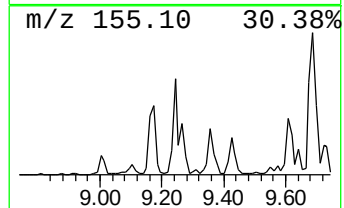
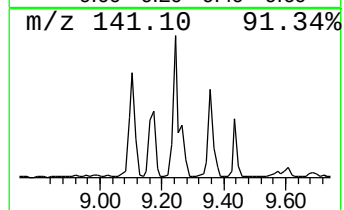
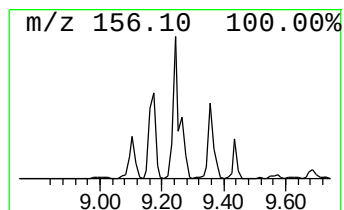
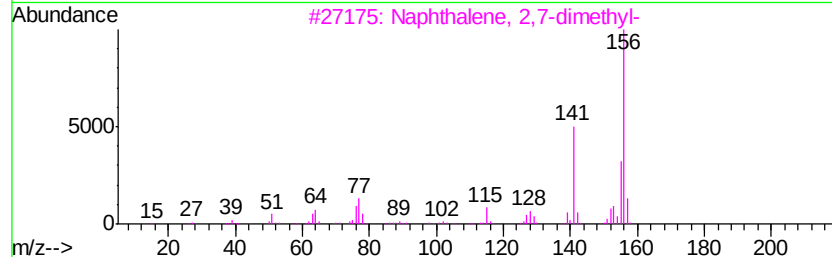
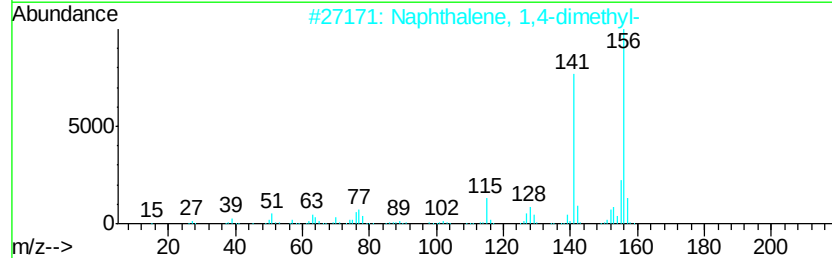
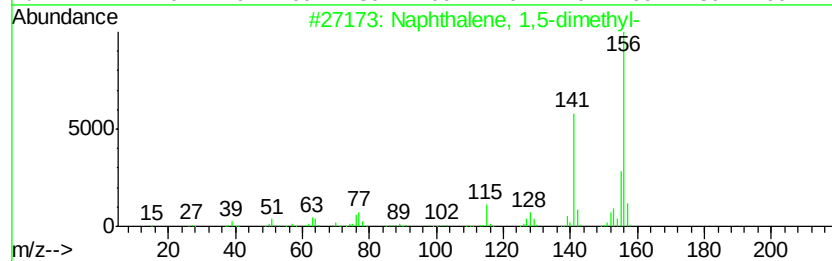
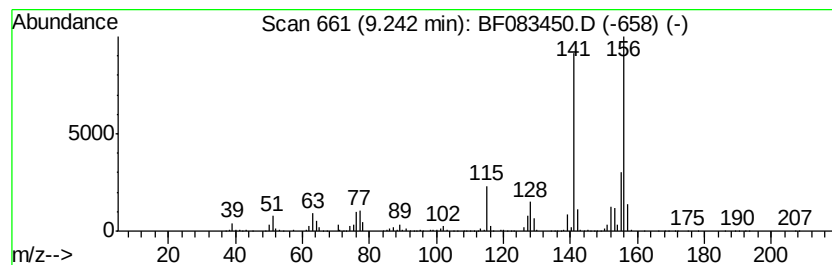
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Naphthalene, 1,5-dimethyl- Concentration Rank 4

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.24 | 38.31 ng | 4450330 | Acenaphthene-d10 | 9.57 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 2    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 3    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 4    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 5    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

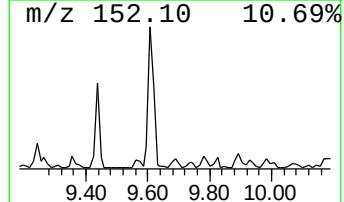
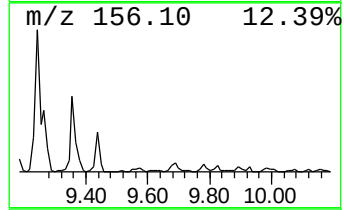
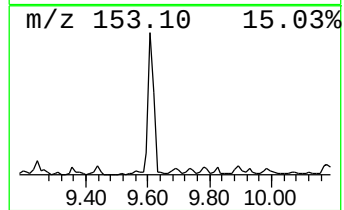
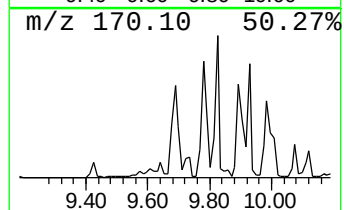
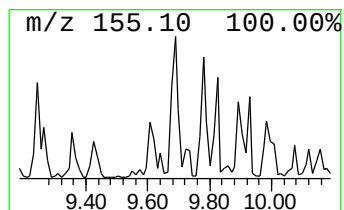
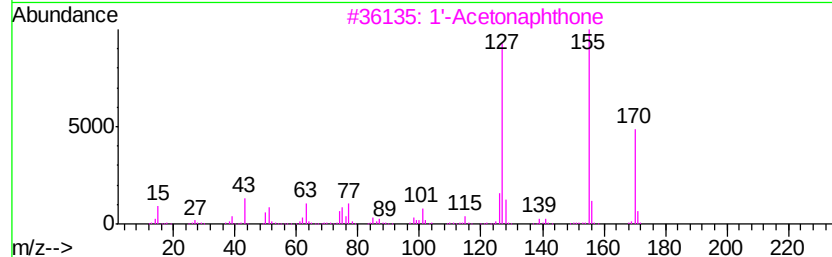
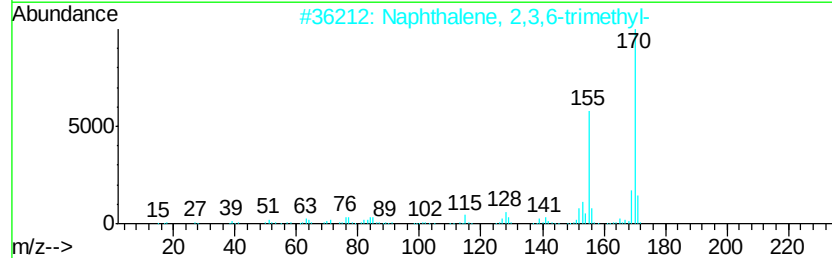
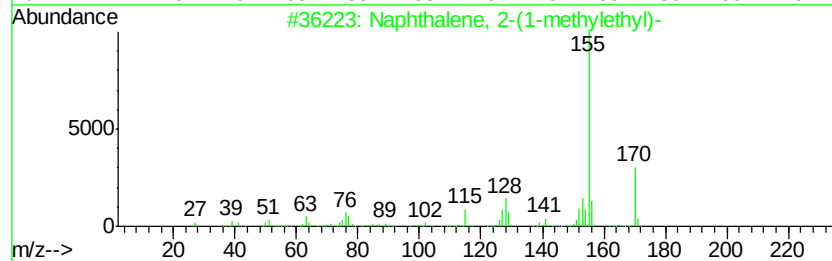
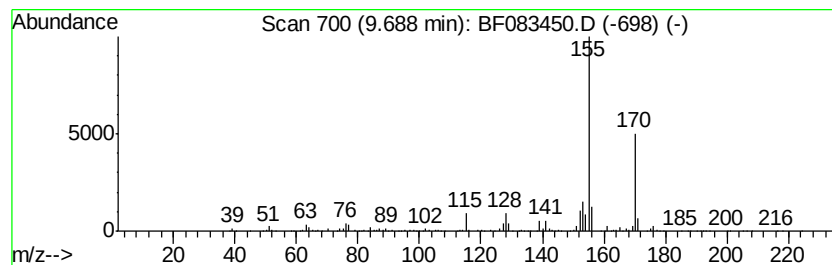
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Naphthalene, 2-(1-methyleth... Concentration Rank 14

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.69 | 10.60 ng | 1231760 | Acenaphthene-d10 | 9.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Naphthalene, 2-(1-methylethyl)-     | 170 | C13H14   | 002027-17-0 | 91   |
| 2    |    | Naphthalene, 2,3,6-trimethyl-       | 170 | C13H14   | 000829-26-5 | 80   |
| 3    |    | 1'-Acetonaphthone                   | 170 | C12H10O  | 000941-98-0 | 72   |
| 4    |    | Ethanone, 1-(5-chloro-2-hydroxyp... | 170 | C8H7ClO2 | 001450-74-4 | 72   |
| 5    |    | 2-Naphthyl methyl ketone            | 170 | C12H10O  | 000093-08-3 | 72   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

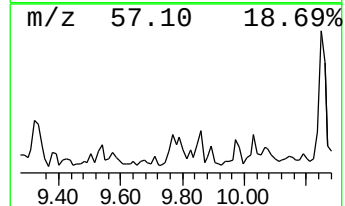
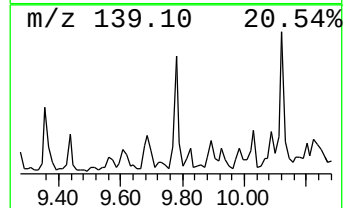
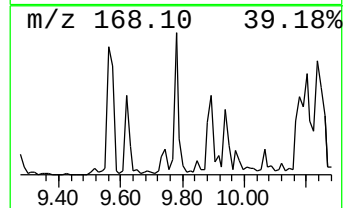
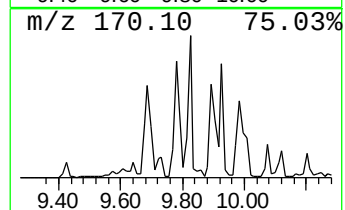
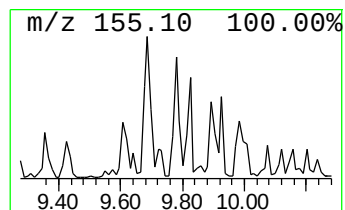
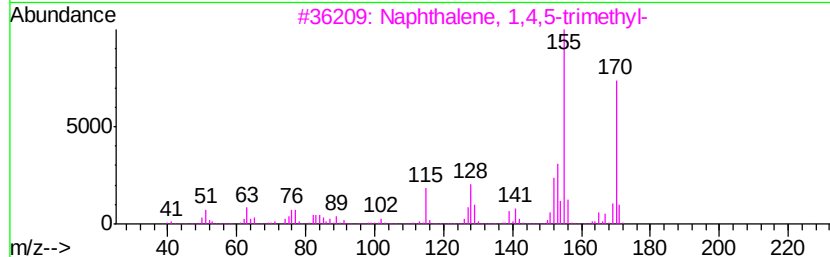
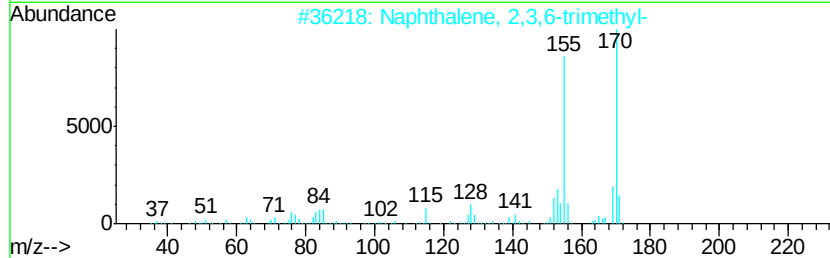
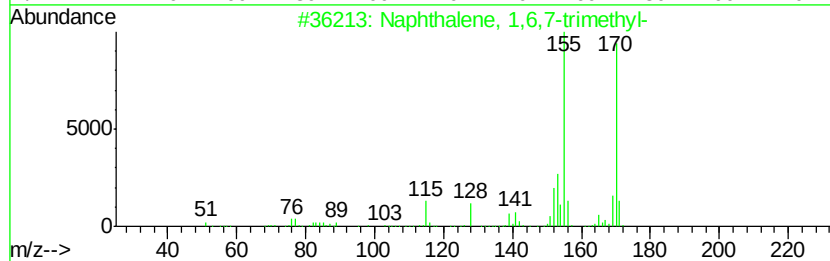
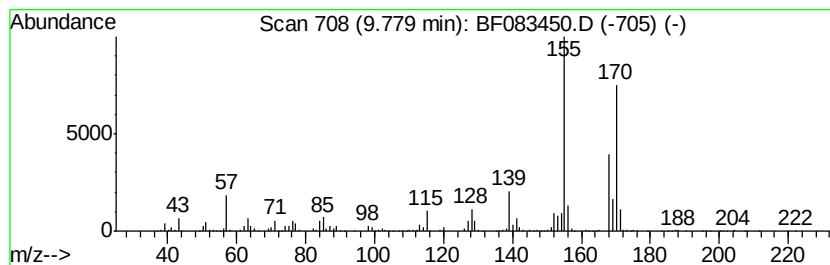
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Naphthalene, 1,6,7-trimethyl- Concentration Rank 9

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.78 | 15.25 ng | 1771260 | Acenaphthene-d10 | 9.57 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#         | Qual |
|------|----|---------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,6,7-trimethyl-   | 170 | C13H14  | 002245-38-7  | 89   |
| 2    |    | Naphthalene, 2,3,6-trimethyl-   | 170 | C13H14  | 000829-26-5  | 83   |
| 3    |    | Naphthalene, 1,4,5-trimethyl-   | 170 | C13H14  | 002131-41-1  | 76   |
| 4    |    | Naphthalene, 1,4,6-trimethyl-   | 170 | C13H14  | 002131-42-2  | 68   |
| 5    |    | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14  | 1000187-78-5 | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

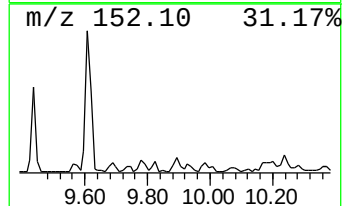
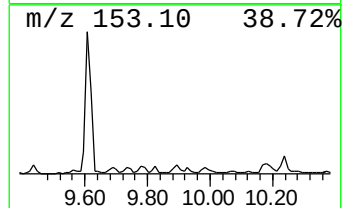
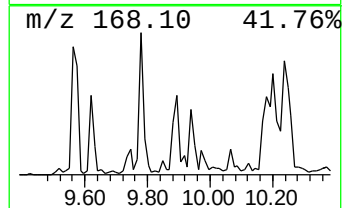
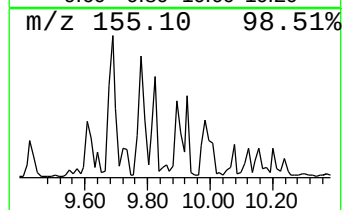
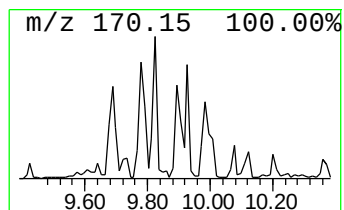
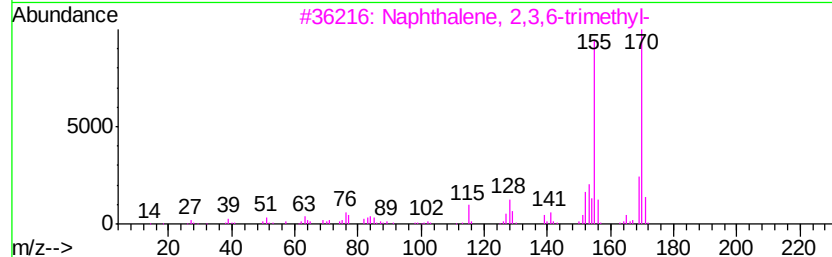
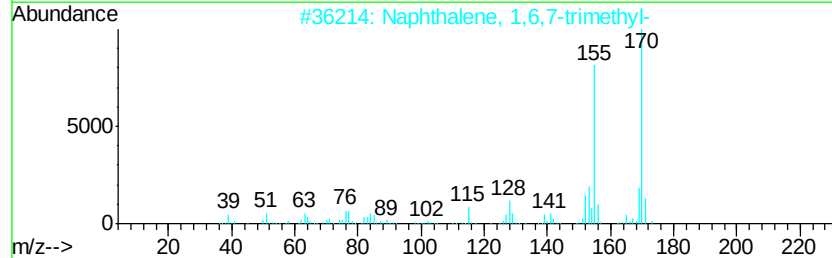
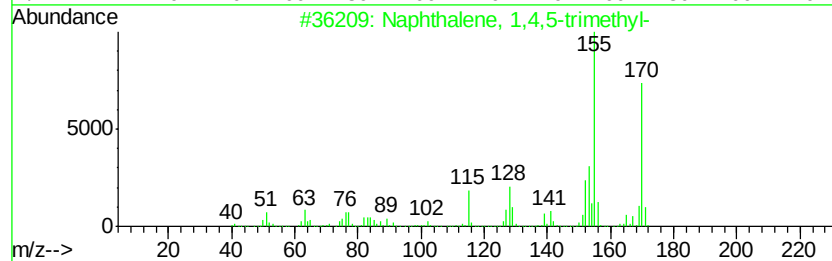
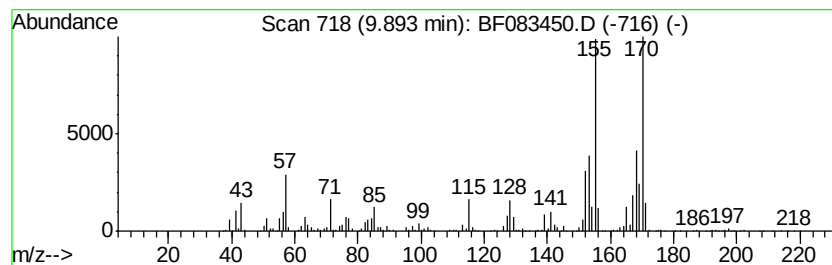
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Naphthalene, 1,4,5-trimethyl- Concentration Rank 13

| R.T. | EstConc  | Area    | Relative to ISTD | R.T. |
|------|----------|---------|------------------|------|
| 9.89 | 10.73 ng | 1247080 | Acenaphthene-d10 | 9.57 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 95   |
| 2    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 95   |
| 3    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 95   |
| 4    |    | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 93   |
| 5    |    | Azulene, 4,6,8-trimethyl-     | 170 | C13H14  | 000941-81-1 | 89   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

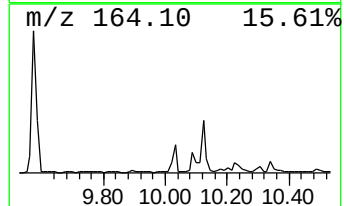
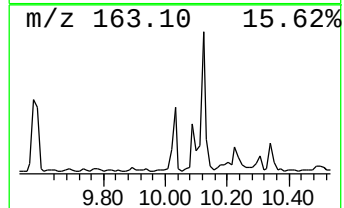
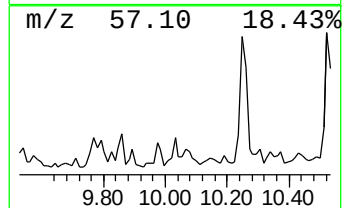
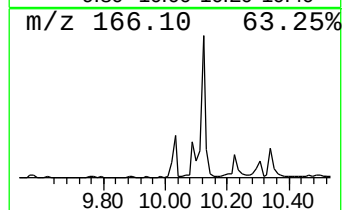
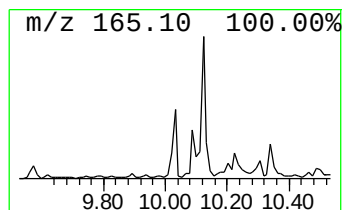
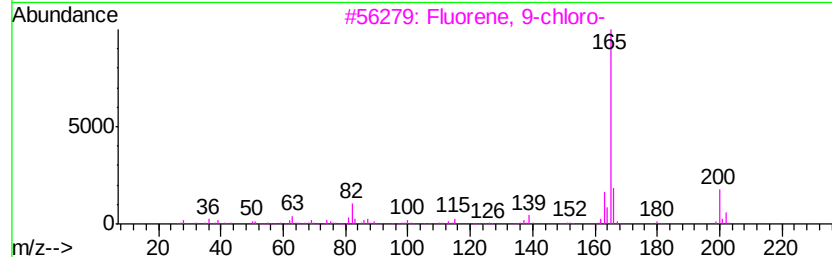
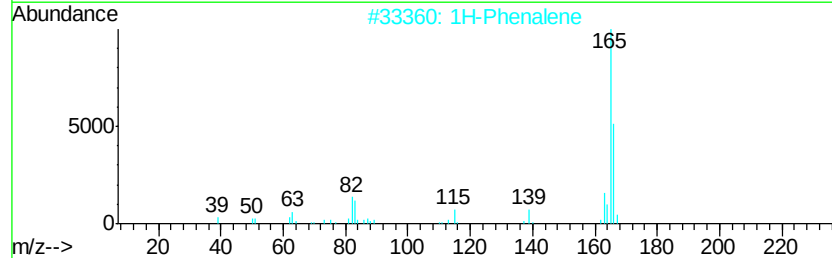
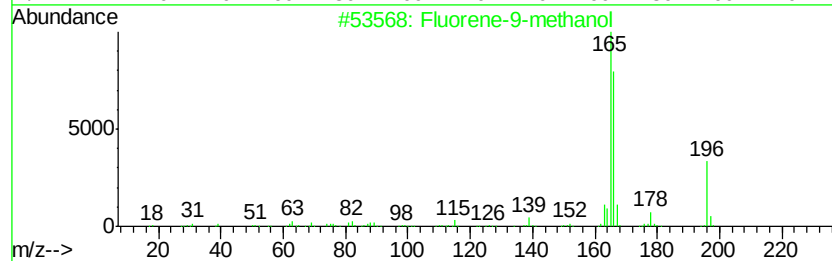
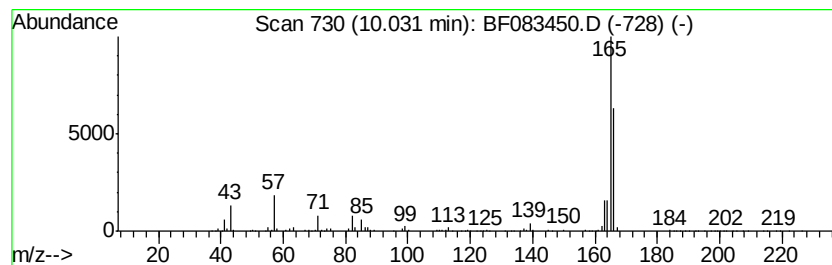
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Fluorene-9-methanol Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.03 | 8.20 ng | 952225 | Acenaphthene-d10 | 9.57 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Fluorene-9-methanol                 | 196 | C14H12O    | 024324-17-2  | 72   |
| 2    |    | 1H-Phenylene                        | 166 | C13H10     | 000203-80-5  | 72   |
| 3    |    | Fluorene, 9-chloro-                 | 200 | C13H9Cl    | 006630-65-5  | 50   |
| 4    |    | 3-Trifluoromethylbenzhydryl chlo... | 270 | C14H10ClF3 | 067240-79-3  | 50   |
| 5    |    | 1,6-Dimethyl[1,2,4]triazolo[3,4-... | 165 | C6H7N5O    | 1000146-89-4 | 43   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

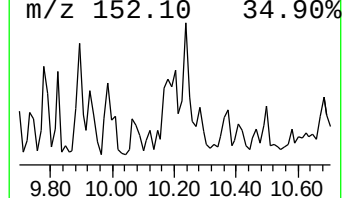
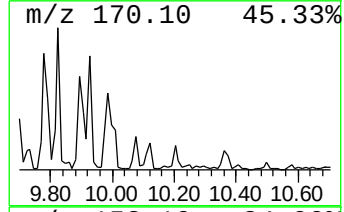
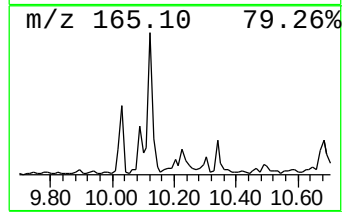
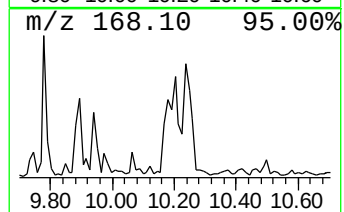
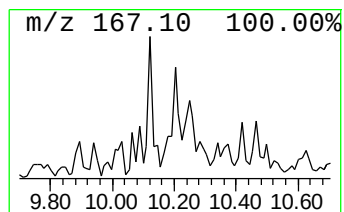
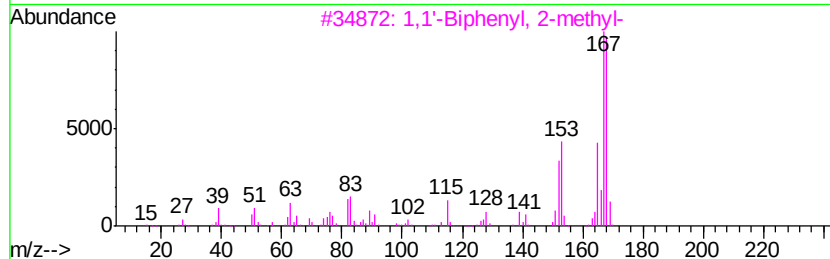
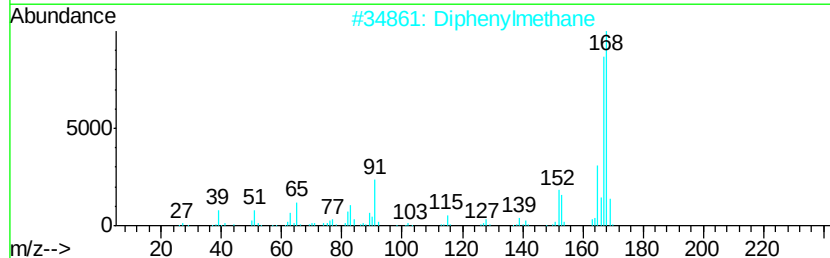
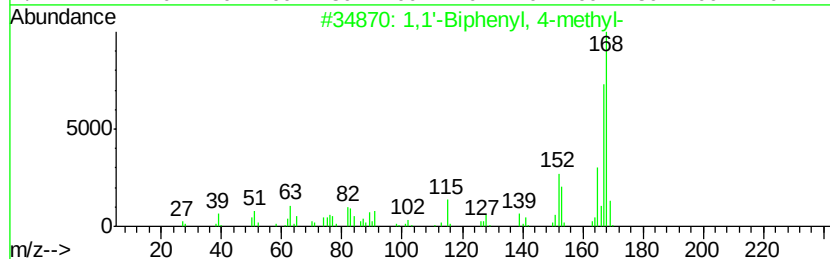
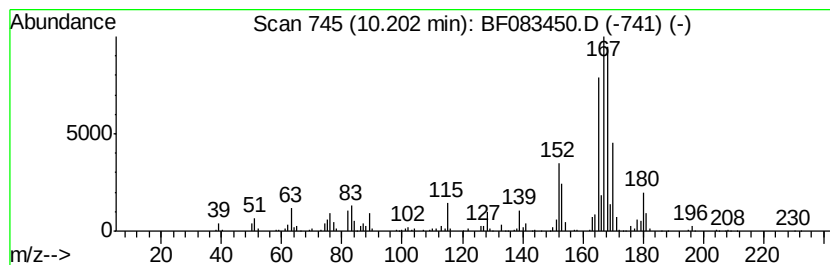
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 1,1'-Biphenyl, 4-methyl- Concentration Rank 19

| R.T.  | EstConc | Area    | Relative to ISTD | R.T. |
|-------|---------|---------|------------------|------|
| 10.20 | 8.98 ng | 1043510 | Acenaphthene-d10 | 9.57 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------|-----|----------|-------------|------|
| 1    |    |   | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12   | 000644-08-6 | 90   |
| 2    |    |   | Diphenylmethane          | 168 | C13H12   | 000101-81-5 | 78   |
| 3    |    |   | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12   | 000643-58-3 | 70   |
| 4    |    |   | Nordiphenamid            | 225 | C15H15NO | 000954-21-2 | 64   |
| 5    |    |   | 1,1-Diphenyl-2-propanol  | 212 | C15H16O  | 029338-49-6 | 52   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

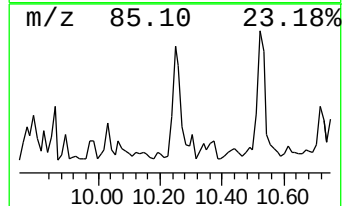
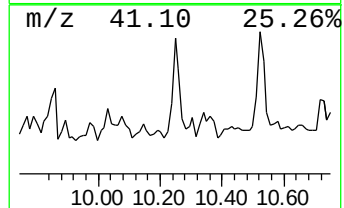
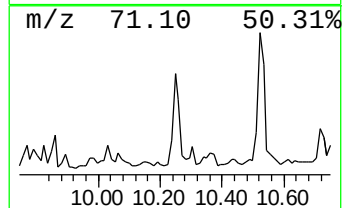
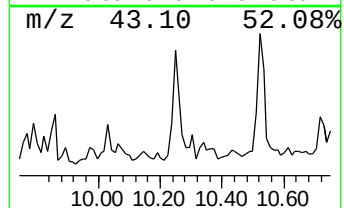
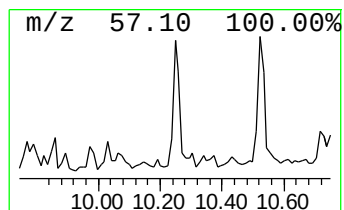
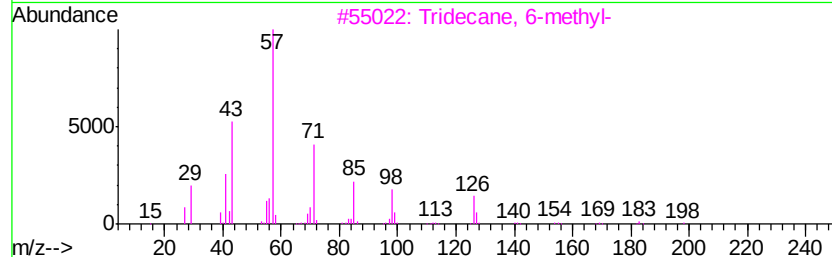
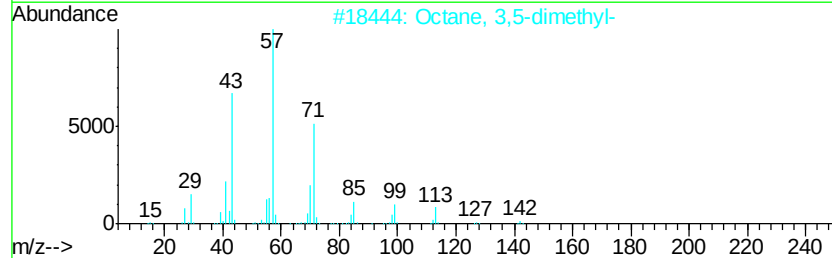
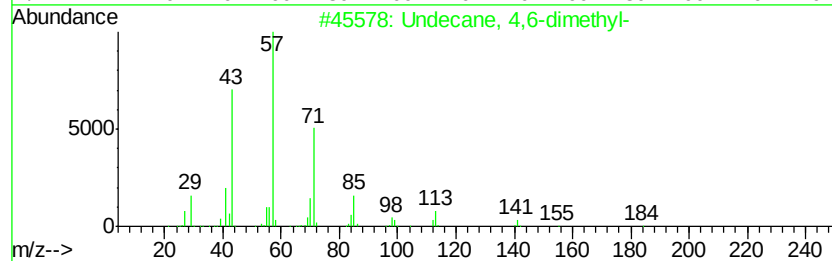
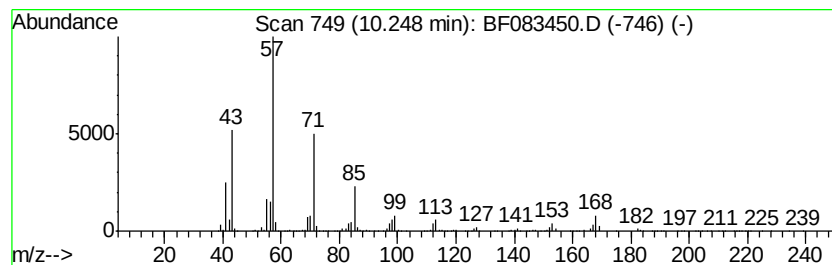
Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.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 Undecane, 4,6-dimethyl- Concentration Rank 6

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------|--------------|------------------|-----------|
| 10.25   | 24.97 ng                | 2900680      | Acenaphthene-d10 | 9.57      |
| Hit# of | 5                       | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Undecane, 4,6-dimethyl- | 184 C13H28   | 017312-82-2      | 81        |
| 2       | Octane, 3,5-dimethyl-   | 142 C10H22   | 015869-93-9      | 68        |
| 3       | Tridecane, 6-methyl-    | 198 C14H30   | 013287-21-3      | 64        |
| 4       | Bacchotricuneatin c     | 342 C20H22O5 | 066563-30-2      | 62        |
| 5       | Tridecane               | 184 C13H28   | 000629-50-5      | 59        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
Data File : BF083450.D  
Acq On : 3 Dec 2015 8:25  
Operator : UM/IZ  
Sample : G4582-06  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-P3WC-04(10-13)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.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... | 4.66  | 45.0    | ng    | 2199820  | 1                     | 6.54 | 977488  | 20.0 |
| Benzene, 1,2,3-tr... | 6.13  | 9.5     | ng    | 463244   | 1                     | 6.54 | 977488  | 20.0 |
| unknown6.32          | 6.32  | 113.1   | ng    | 5525620  | 1                     | 6.54 | 977488  | 20.0 |
| Benzene, 1,3-diet... | 6.80  | 9.5     | ng    | 464813   | 1                     | 6.54 | 977488  | 20.0 |
| Benzene, 2-ethyl-... | 6.88  | 12.9    | ng    | 632142   | 1                     | 6.54 | 977488  | 20.0 |
| Naphthalene, 1-et... | 9.10  | 18.7    | ng    | 2167670  | 3                     | 9.57 | 2323610 | 20.0 |
| Naphthalene, 1,7-... | 9.17  | 21.3    | ng    | 2476280  | 3                     | 9.57 | 2323610 | 20.0 |
| Naphthalene, 1,5-... | 9.24  | 38.3    | ng    | 4450330  | 3                     | 9.57 | 2323610 | 20.0 |
| Naphthalene, 2-(1... | 9.69  | 10.6    | ng    | 1231760  | 3                     | 9.57 | 2323610 | 20.0 |
| Naphthalene, 1,6,... | 9.78  | 15.3    | ng    | 1771260  | 3                     | 9.57 | 2323610 | 20.0 |
| Naphthalene, 1,4,... | 9.89  | 10.7    | ng    | 1247080  | 3                     | 9.57 | 2323610 | 20.0 |
| Fluorene-9-methanol  | 10.03 | 8.2     | ng    | 952225   | 3                     | 9.57 | 2323610 | 20.0 |
| 1,1'-Biphenyl, 4-... | 10.20 | 9.0     | ng    | 1043510  | 3                     | 9.57 | 2323610 | 20.0 |
| Undecane, 4,6-dim... | 10.25 | 25.0    | ng    | 2900680  | 3                     | 9.57 | 2323610 | 20.0 |