

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051415\  
 Data File : BF079252.D  
 Acq On : 15 May 2015 1:23  
 Operator : TP/IZ  
 Sample : G2216-01  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TW-4

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-BF043015.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         | 1.484       | 22            | 26          | 28           | rBV      | 7195817        | 10306100      | 39.24%          | 5.579%        |
| 2         | 1.655       | 39            | 41          | 43           | rVB      | 488021         | 551500        | 2.10%           | 0.299%        |
| 3         | 1.690       | 43            | 44          | 49           | rBV      | 231307         | 379631        | 1.45%           | 0.205%        |
| 4         | 1.815       | 53            | 55          | 82           | rVB      | 2447281        | 4499923       | 17.13%          | 2.436%        |
| 5         | 3.439       | 192           | 197         | 201          | rVV      | 2420545        | 4840814       | 18.43%          | 2.620%        |
| 6         | 5.336       | 359           | 363         | 366          | rBV      | 6534452        | 13199444      | 50.25%          | 7.145%        |
| 7         | 5.473       | 371           | 375         | 381          | rVV      | 3810355        | 8392602       | 31.95%          | 4.543%        |
| 8         | 5.793       | 399           | 403         | 405          | rBV      | 4393340        | 5786922       | 22.03%          | 3.133%        |
| 9         | 6.193       | 435           | 438         | 440          | rVB      | 655855         | 725522        | 2.76%           | 0.393%        |
| 10        | 6.456       | 459           | 461         | 467          | rBV2     | 175594         | 263637        | 1.00%           | 0.143%        |
| 11        | 6.547       | 467           | 469         | 472          | rVB      | 353233         | 454413        | 1.73%           | 0.246%        |
| 12        | 6.639       | 474           | 477         | 478          | rVV      | 693777         | 804040        | 3.06%           | 0.435%        |
| 13        | 6.673       | 478           | 480         | 483          | rVB      | 1576476        | 1455783       | 5.54%           | 0.788%        |
| 14        | 6.730       | 483           | 485         | 487          | rBV      | 884851         | 809871        | 3.08%           | 0.438%        |
| 15        | 6.787       | 487           | 490         | 492          | rBV      | 412857         | 515753        | 1.96%           | 0.279%        |
| 16        | 6.833       | 492           | 494         | 496          | rVV      | 819791         | 811589        | 3.09%           | 0.439%        |
| 17        | 6.936       | 500           | 503         | 505          | rBV      | 858817         | 1134306       | 4.32%           | 0.614%        |
| 18        | 6.970       | 505           | 506         | 507          | rVV      | 299675         | 403278        | 1.54%           | 0.218%        |
| 19        | 7.005       | 507           | 509         | 514          | rVB3     | 2246677        | 3721090       | 14.17%          | 2.014%        |
| 20        | 7.222       | 526           | 528         | 529          | rBV      | 278069         | 294879        | 1.12%           | 0.160%        |
| 21        | 7.290       | 529           | 534         | 536          | rVV2     | 921419         | 1228707       | 4.68%           | 0.665%        |
| 22        | 7.347       | 536           | 539         | 542          | rVB      | 1003736        | 1315469       | 5.01%           | 0.712%        |
| 23        | 7.450       | 545           | 548         | 550          | rVV      | 6839965        | 12343012      | 46.99%          | 6.681%        |
| 24        | 7.542       | 554           | 556         | 558          | rVV      | 3838876        | 3909386       | 14.88%          | 2.116%        |
| 25        | 7.622       | 560           | 563         | 569          | rVB      | 698966         | 750240        | 2.86%           | 0.406%        |
| 26        | 7.736       | 569           | 573         | 576          | rBV5     | 121425         | 284493        | 1.08%           | 0.154%        |
| 27        | 7.885       | 583           | 586         | 587          | rVV      | 656912         | 775575        | 2.95%           | 0.420%        |
| 28        | 7.919       | 587           | 589         | 591          | rVV      | 1901670        | 1996565       | 7.60%           | 1.081%        |
| 29        | 8.079       | 601           | 603         | 605          | rVV3     | 406977         | 568424        | 2.16%           | 0.308%        |
| 30        | 8.205       | 613           | 614         | 616          | rVB      | 311205         | 303871        | 1.16%           | 0.164%        |
| 31        | 8.273       | 616           | 620         | 624          | rBV3     | 184183         | 554329        | 2.11%           | 0.300%        |
| 32        | 8.399       | 629           | 631         | 636          | rVB2     | 1242991        | 1430093       | 5.44%           | 0.774%        |
| 33        | 8.502       | 636           | 640         | 641          | rBV2     | 2090733        | 3720870       | 14.17%          | 2.014%        |
| 34        | 8.536       | 641           | 643         | 647          | rVV      | 2372166        | 5205631       | 19.82%          | 2.818%        |

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 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TW-4

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-BF043015.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |     |     |     |      |         |          |         |         |
|----|--------|-----|-----|-----|------|---------|----------|---------|---------|
| 35 | 8.593  | 647 | 648 | 650 | rVV2 | 426217  | 547054   | 2.08%   | 0.296%  |
| 36 | 8.639  | 650 | 652 | 656 | rVB  | 796113  | 903470   | 3.44%   | 0.489%  |
| 37 | 8.868  | 665 | 672 | 673 | rBV2 | 7085104 | 26265581 | 100.00% | 14.218% |
| 38 | 9.016  | 678 | 685 | 690 | rVB6 | 116235  | 287101   | 1.09%   | 0.155%  |
| 39 | 9.108  | 690 | 693 | 699 | rVB3 | 383188  | 716448   | 2.73%   | 0.388%  |
| 40 | 9.268  | 703 | 707 | 709 | rBV2 | 481160  | 954619   | 3.63%   | 0.517%  |
| 41 | 9.382  | 711 | 717 | 720 | rBV2 | 391084  | 1301642  | 4.96%   | 0.705%  |
| 42 | 9.428  | 720 | 721 | 725 | rVB2 | 332903  | 416643   | 1.59%   | 0.226%  |
| 43 | 9.542  | 729 | 731 | 734 | rBV3 | 231108  | 372635   | 1.42%   | 0.202%  |
| 44 | 9.622  | 734 | 738 | 741 | rBV3 | 258162  | 522619   | 1.99%   | 0.283%  |
| 45 | 9.691  | 741 | 744 | 746 | rVB  | 5391025 | 7310212  | 27.83%  | 3.957%  |
| 46 | 9.748  | 746 | 749 | 751 | rVB2 | 245320  | 322938   | 1.23%   | 0.175%  |
| 47 | 9.816  | 751 | 755 | 757 | rBV  | 4771084 | 6081646  | 23.15%  | 3.292%  |
| 48 | 9.919  | 760 | 764 | 767 | rVV5 | 245815  | 704949   | 2.68%   | 0.382%  |
| 49 | 9.988  | 767 | 770 | 773 | rVV2 | 159058  | 308132   | 1.17%   | 0.167%  |
| 50 | 10.136 | 781 | 783 | 785 | rBV  | 1356157 | 1720261  | 6.55%   | 0.931%  |
| 51 | 10.262 | 791 | 794 | 797 | rBV  | 2166984 | 2209548  | 8.41%   | 1.196%  |
| 52 | 10.376 | 802 | 804 | 808 | rVV  | 1139471 | 1219724  | 4.64%   | 0.660%  |
| 53 | 10.456 | 808 | 811 | 814 | rVV2 | 452248  | 902875   | 3.44%   | 0.489%  |
| 54 | 10.548 | 818 | 819 | 821 | rVV  | 672116  | 875583   | 3.33%   | 0.474%  |
| 55 | 10.628 | 825 | 826 | 830 | rVV2 | 201524  | 412231   | 1.57%   | 0.223%  |
| 56 | 10.696 | 830 | 832 | 833 | rVV  | 366678  | 380910   | 1.45%   | 0.206%  |
| 57 | 10.799 | 838 | 841 | 843 | rVB  | 1320948 | 1596282  | 6.08%   | 0.864%  |
| 58 | 10.971 | 851 | 856 | 858 | rBV  | 621626  | 877340   | 3.34%   | 0.475%  |
| 59 | 11.016 | 858 | 860 | 862 | rVV  | 4606700 | 4739599  | 18.04%  | 2.566%  |
| 60 | 11.096 | 866 | 867 | 870 | rVV2 | 446061  | 640696   | 2.44%   | 0.347%  |
| 61 | 11.222 | 875 | 878 | 881 | rBV3 | 247246  | 394930   | 1.50%   | 0.214%  |
| 62 | 11.302 | 881 | 885 | 888 | rVB  | 587380  | 637294   | 2.43%   | 0.345%  |
| 63 | 11.531 | 902 | 905 | 907 | rVV  | 255638  | 323868   | 1.23%   | 0.175%  |
| 64 | 11.611 | 911 | 912 | 914 | rVV  | 302025  | 358525   | 1.36%   | 0.194%  |
| 65 | 11.656 | 914 | 916 | 918 | rVV  | 1619717 | 2088927  | 7.95%   | 1.131%  |
| 66 | 11.759 | 919 | 925 | 929 | rVV3 | 728975  | 1933640  | 7.36%   | 1.047%  |
| 67 | 11.816 | 929 | 930 | 933 | rVV  | 367468  | 600432   | 2.29%   | 0.325%  |
| 68 | 11.874 | 933 | 935 | 938 | rVV2 | 343176  | 536421   | 2.04%   | 0.290%  |
| 69 | 11.954 | 938 | 942 | 943 | rVV2 | 1056726 | 2041507  | 7.77%   | 1.105%  |
| 70 | 12.274 | 967 | 970 | 973 | rBV  | 187229  | 305124   | 1.16%   | 0.165%  |
| 71 | 12.331 | 973 | 975 | 979 | rVV2 | 359260  | 761247   | 2.90%   | 0.412%  |

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Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

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-BF043015.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 12.571 | 991  | 996  | 1000 | rVB3 | 126796  | 430406  | 1.64%  | 0.233% |
| 73 | 12.674 | 1000 | 1005 | 1007 | rBV3 | 267749  | 602159  | 2.29%  | 0.326% |
| 74 | 12.754 | 1007 | 1012 | 1015 | rBV2 | 614488  | 1325501 | 5.05%  | 0.718% |
| 75 | 12.845 | 1015 | 1020 | 1023 | rVV2 | 3132534 | 3768540 | 14.35% | 2.040% |
| 76 | 12.902 | 1023 | 1025 | 1028 | rVV  | 675581  | 982937  | 3.74%  | 0.532% |
| 77 | 12.959 | 1028 | 1030 | 1032 | rVV  | 606437  | 723341  | 2.75%  | 0.392% |
| 78 | 13.108 | 1039 | 1043 | 1045 | rBV2 | 661918  | 961810  | 3.66%  | 0.521% |
| 79 | 13.188 | 1045 | 1050 | 1052 | rVV2 | 238763  | 417736  | 1.59%  | 0.226% |
| 80 | 13.234 | 1052 | 1054 | 1057 | rVV  | 261846  | 366015  | 1.39%  | 0.198% |
| 81 | 13.440 | 1068 | 1072 | 1074 | rVV2 | 300153  | 607390  | 2.31%  | 0.329% |
| 82 | 13.474 | 1074 | 1075 | 1079 | rVV3 | 331380  | 481176  | 1.83%  | 0.260% |
| 83 | 13.542 | 1079 | 1081 | 1082 | rVV2 | 299612  | 365962  | 1.39%  | 0.198% |
| 84 | 13.577 | 1082 | 1084 | 1085 | rVV  | 370501  | 460573  | 1.75%  | 0.249% |
| 85 | 13.668 | 1090 | 1092 | 1097 | rVV4 | 106019  | 292739  | 1.11%  | 0.158% |
| 86 | 13.760 | 1097 | 1100 | 1103 | rVV2 | 193448  | 340636  | 1.30%  | 0.184% |
| 87 | 14.320 | 1145 | 1149 | 1151 | rBV  | 480468  | 622934  | 2.37%  | 0.337% |
| 88 | 14.594 | 1171 | 1173 | 1175 | rBV  | 691589  | 744109  | 2.83%  | 0.403% |
| 89 | 14.811 | 1189 | 1192 | 1194 | rBV  | 2041079 | 2409324 | 9.17%  | 1.304% |
| 90 | 14.994 | 1206 | 1208 | 1214 | rVB  | 373919  | 482132  | 1.84%  | 0.261% |
| 91 | 15.531 | 1252 | 1255 | 1264 | rBV  | 445781  | 580350  | 2.21%  | 0.314% |
| 92 | 16.091 | 1301 | 1304 | 1306 | rBV2 | 578241  | 783435  | 2.98%  | 0.424% |
| 93 | 17.783 | 1449 | 1452 | 1455 | rBV  | 576759  | 677607  | 2.58%  | 0.367% |

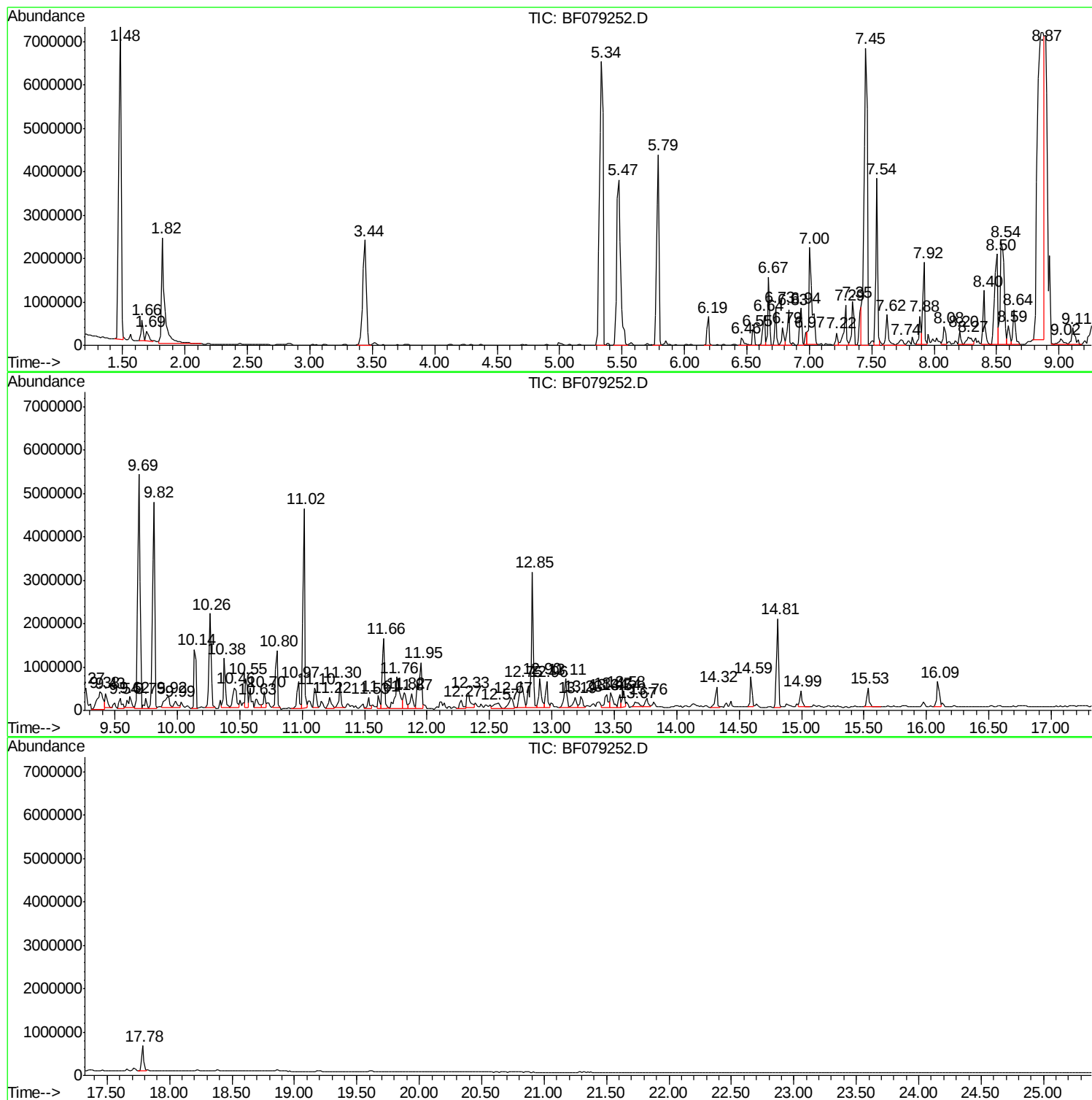
Sum of corrected areas: 184737227

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
TW-4

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.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\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

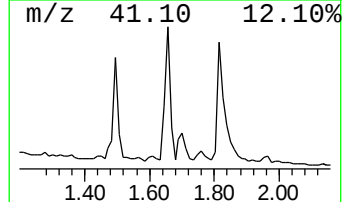
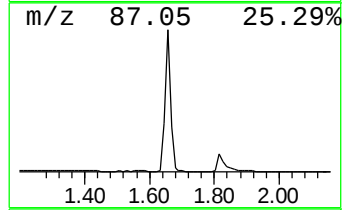
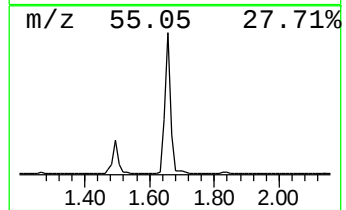
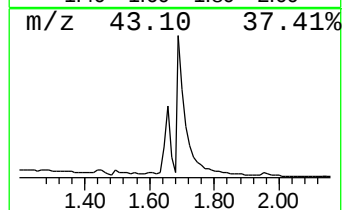
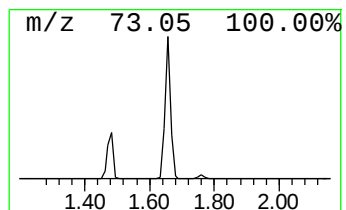
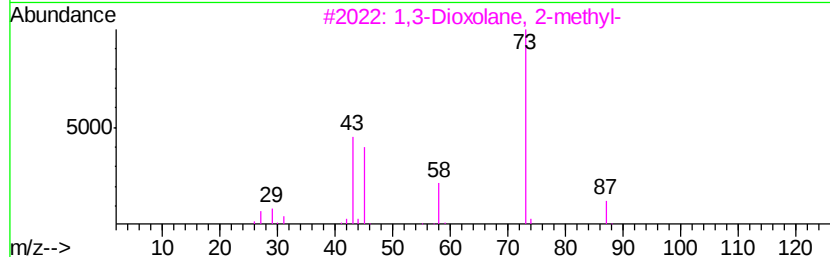
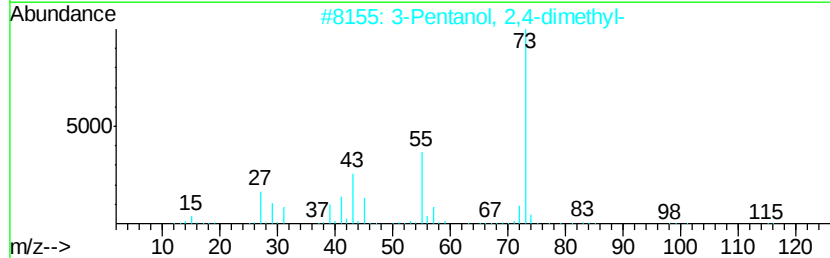
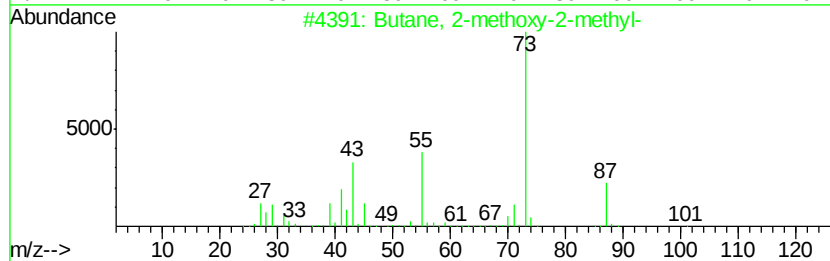
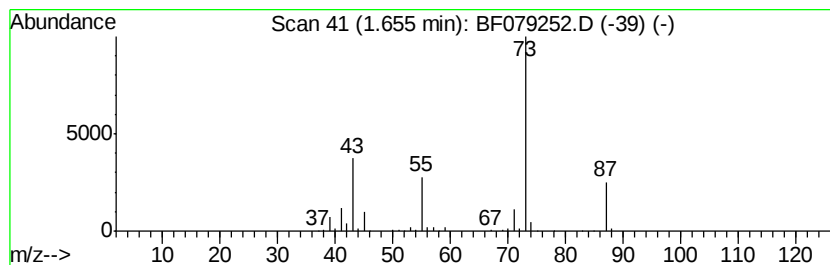
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 18

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 1.66 | 37.41 ng | 551500 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |    | 3-Pentanol, 2,4-dimethyl-   | 116 | C7H16O  | 000600-36-2 | 37   |
| 3    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 4    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 12   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

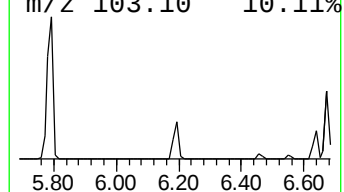
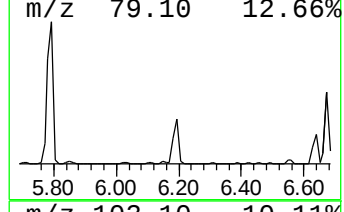
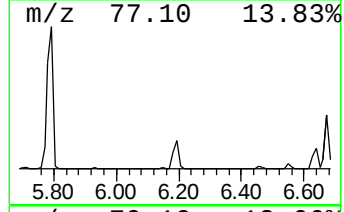
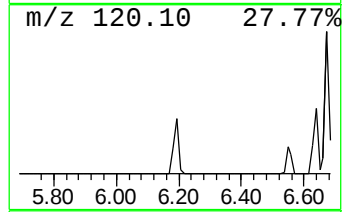
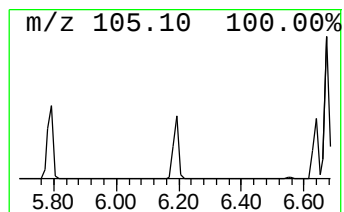
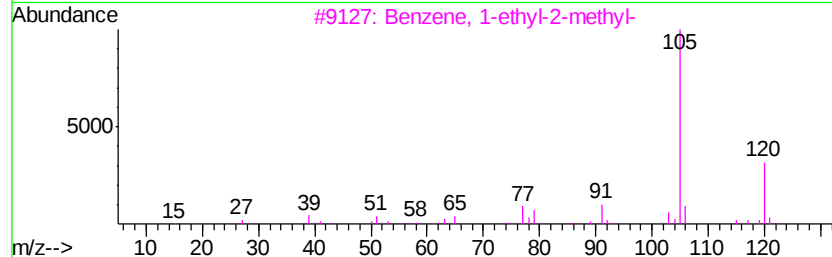
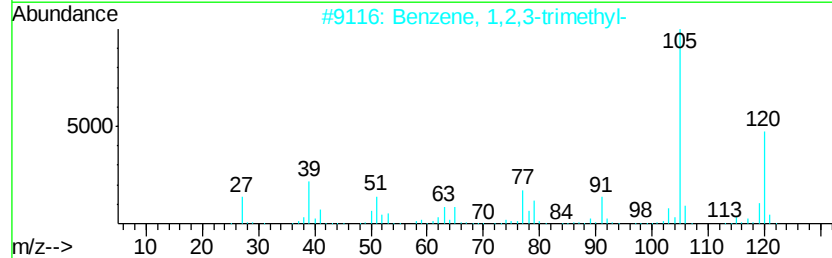
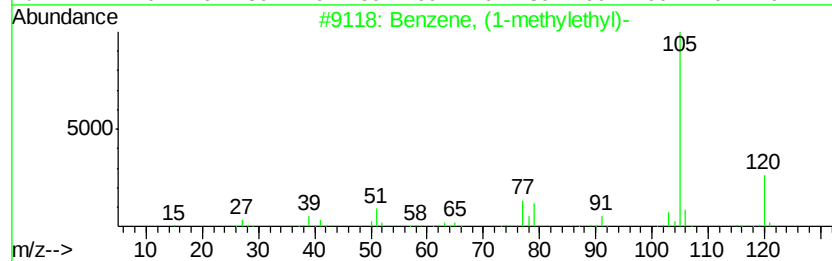
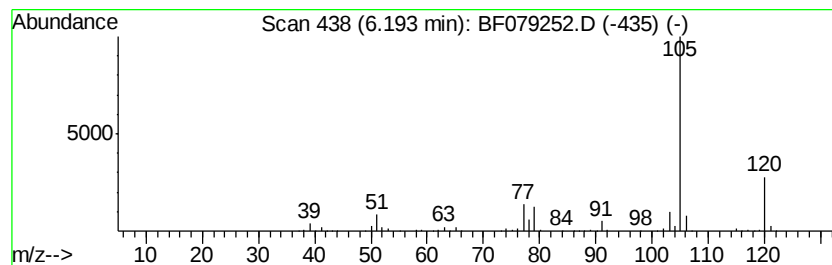
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, (1-methylethyl)- Concentration Rank 16

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.19 | 49.21 ng | 725522 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (1-methylethyl)-  | 120 | C9H12   | 000098-82-8 | 94   |
| 2    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 3    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 86   |
| 4    |    | Benzene, 1,3,5-trimethyl-  | 120 | C9H12   | 000108-67-8 | 83   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 78   |



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Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

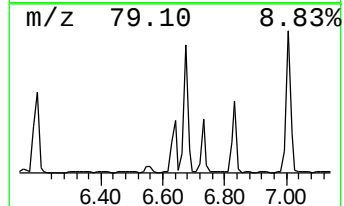
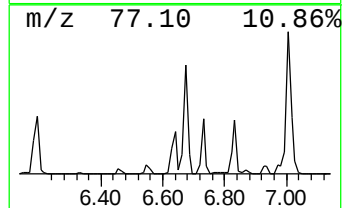
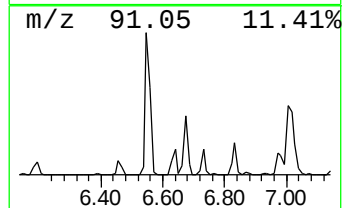
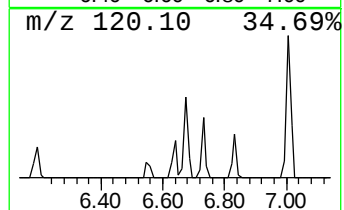
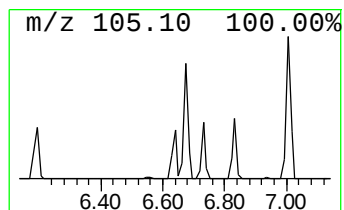
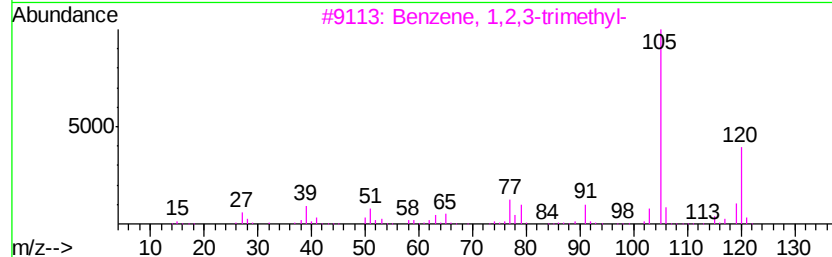
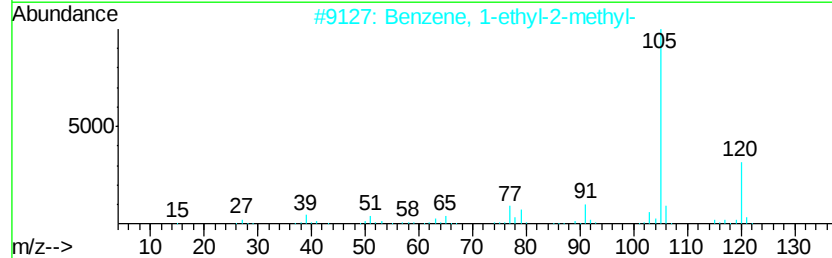
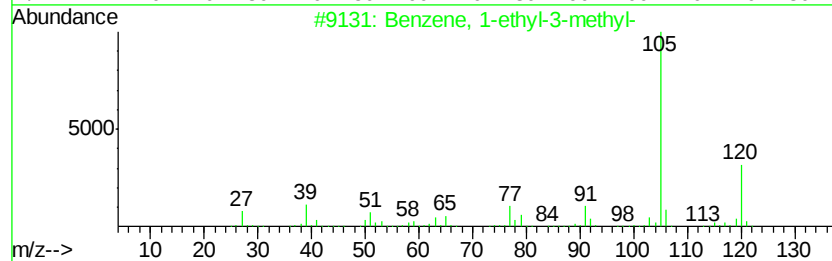
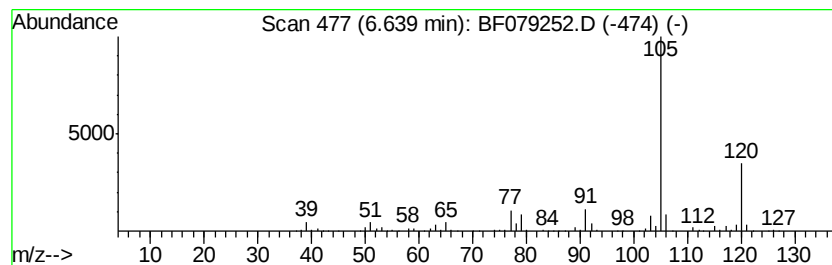
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 1-ethyl-3-methyl- Concentration Rank 14

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.64 | 54.53 ng | 804040 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 95   |
| 2    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 3    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 4    |    | Benzene, 1,3,5-trimethyl-  | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

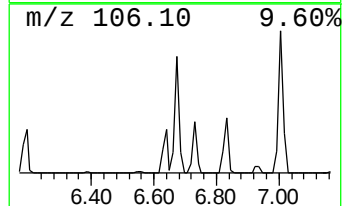
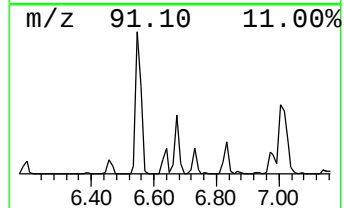
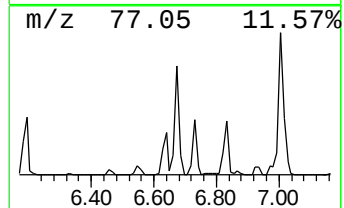
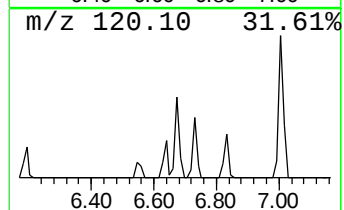
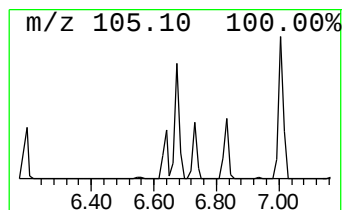
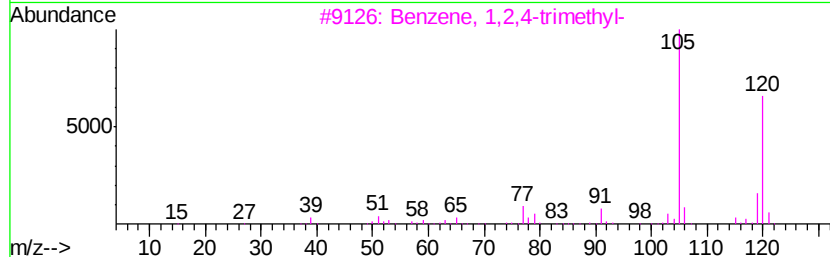
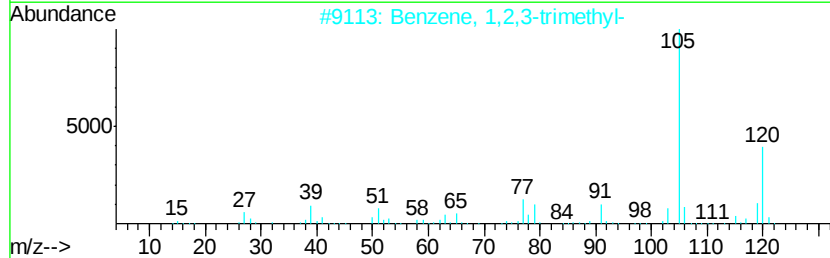
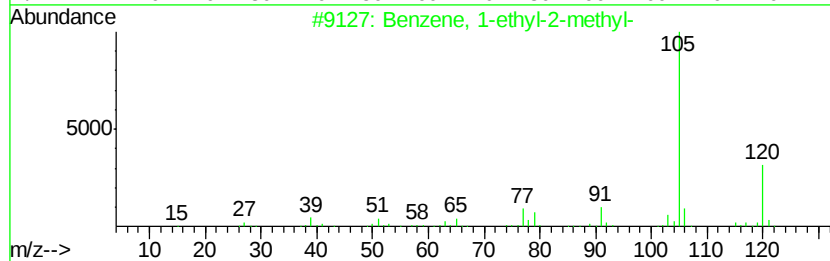
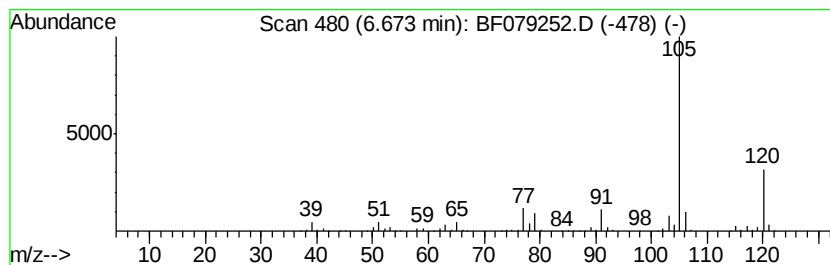
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 98.74 ng | 1455780 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 95   |
| 2    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 91   |
| 3    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 4    |    | Benzene, 1,3,5-trimethyl-  | 120 | C9H12   | 000108-67-8 | 91   |
| 5    |    | Benzene, 1-ethyl-4-methyl- | 120 | C9H12   | 000622-96-8 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

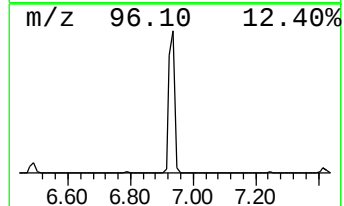
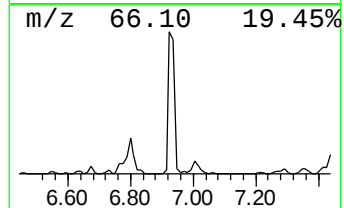
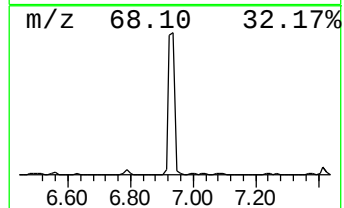
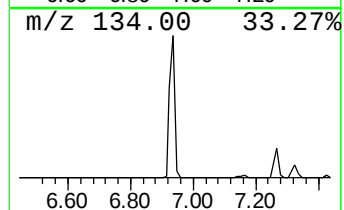
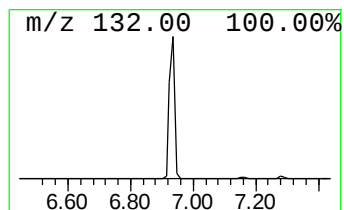
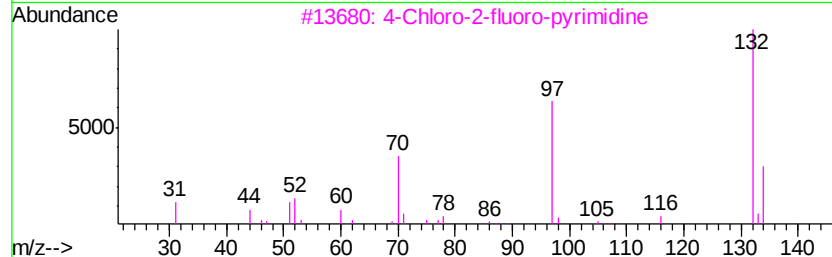
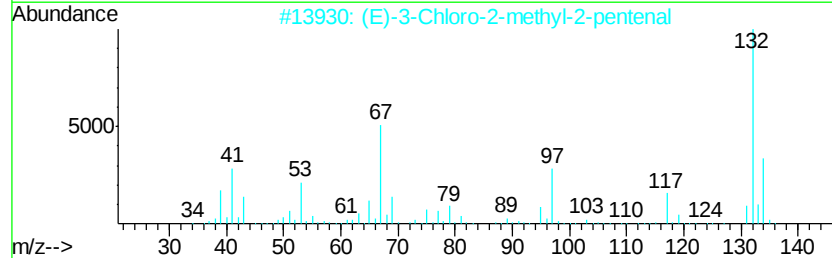
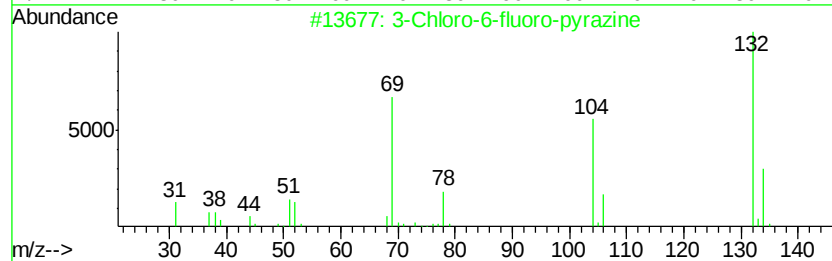
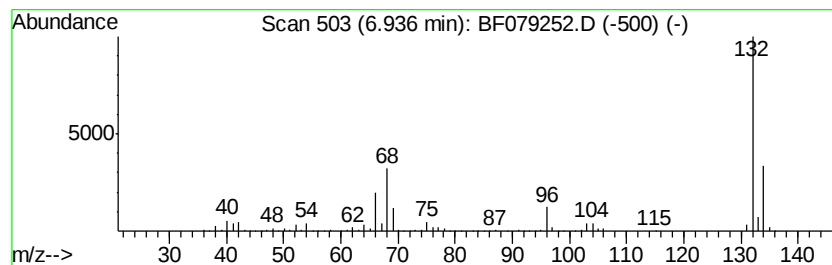
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown6.94 Concentration Rank 12

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.94 | 76.93 ng | 1134310 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 4    |    | Xenon                            | 132 | Xe        | 007440-63-3  | 9    |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

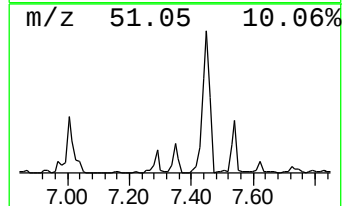
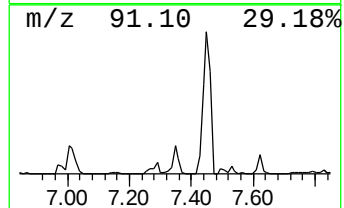
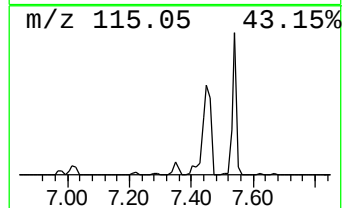
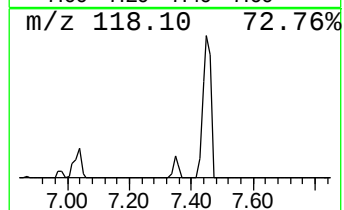
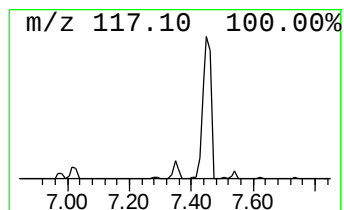
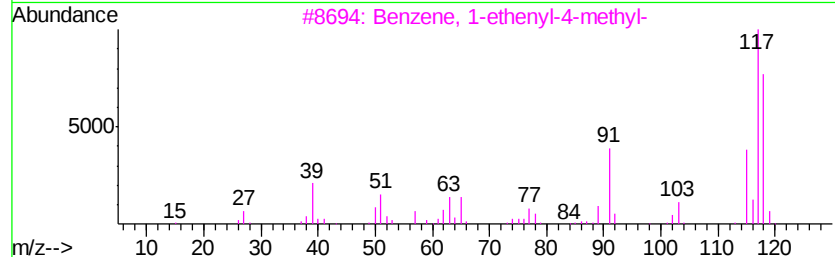
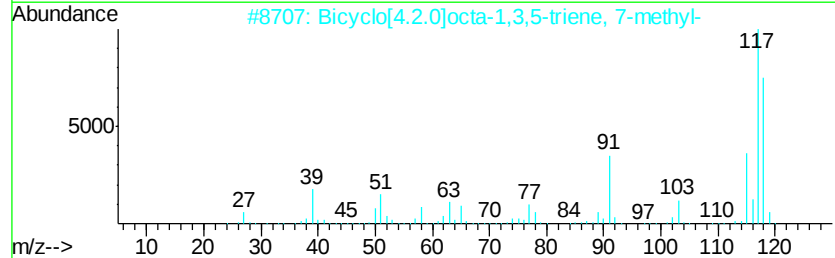
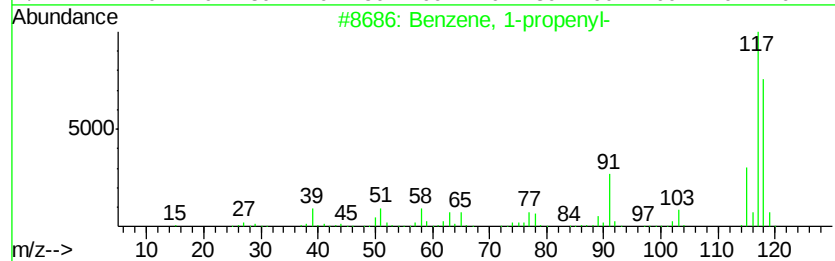
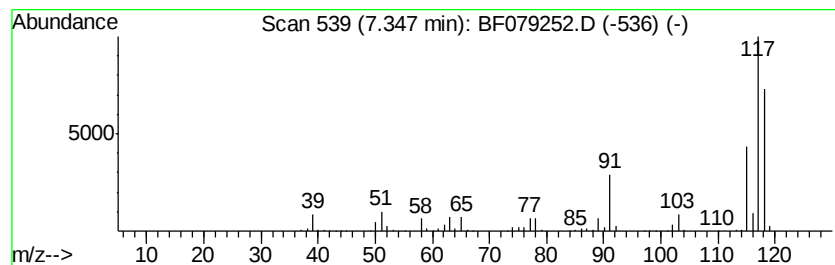
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzene, 1-propenyl- Concentration Rank 10

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.35 | 89.22 ng | 1315470 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-propenyl-                | 118 | C9H10   | 000637-50-3 | 89   |
| 2    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10   | 055337-80-9 | 89   |
| 3    |    | Benzene, 1-ethenyl-4-methyl-        | 118 | C9H10   | 000622-97-9 | 89   |
| 4    |    | Benzene, 1-ethenyl-2-methyl-        | 118 | C9H10   | 000611-15-4 | 86   |
| 5    |    | Benzene, cyclopropyl-               | 118 | C9H10   | 000873-49-4 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

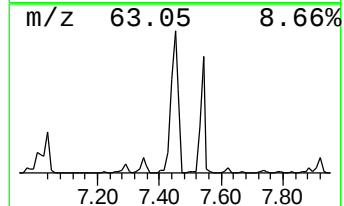
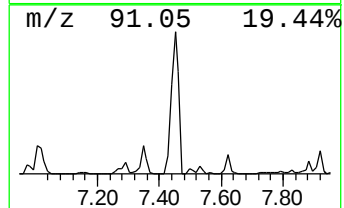
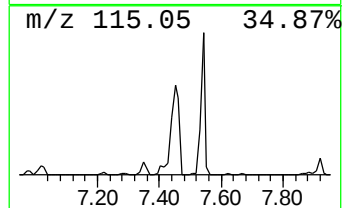
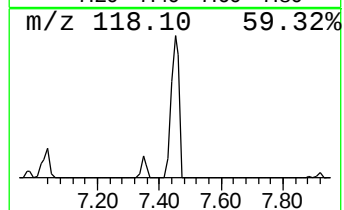
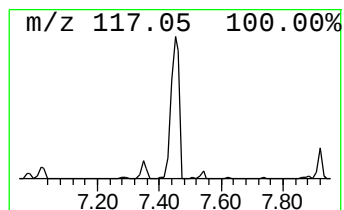
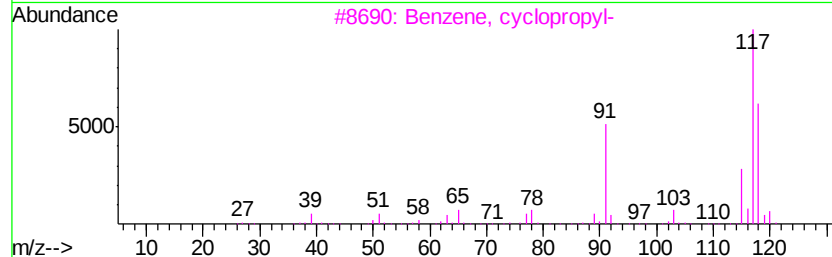
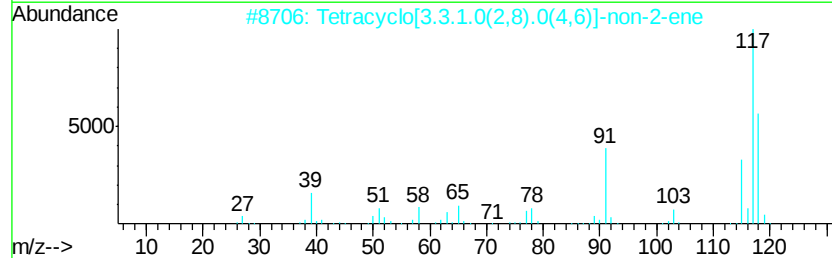
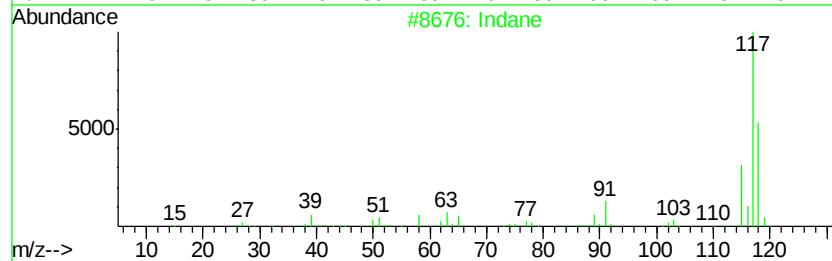
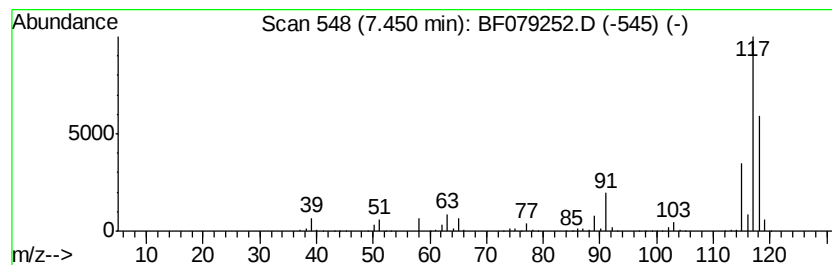
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 Indane Concentration Rank 2

| R.T. | EstConc   | Area     | Relative to ISTD       | R.T. |
|------|-----------|----------|------------------------|------|
| 7.45 | 837.16 ng | 12343000 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm | CAS#         | Qual |
|------|----|---|----------------------------------|-----|---------|--------------|------|
| 1    |    |   | Indane                           | 118 | C9H10   | 000496-11-7  | 94   |
| 2    |    |   | Tetracyclo[3.3.1.0(2,8).0(4,6)]- | 118 | C9H10   | 1000191-13-7 | 74   |
| 3    |    |   | Benzene, cyclopropyl-            | 118 | C9H10   | 000873-49-4  | 74   |
| 4    |    |   | Benzene, 1-ethenyl-2-methyl-     | 118 | C9H10   | 000611-15-4  | 74   |
| 5    |    |   | Benzene, 1-propenyl-             | 118 | C9H10   | 000637-50-3  | 64   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

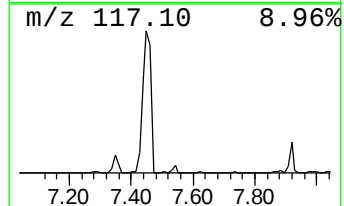
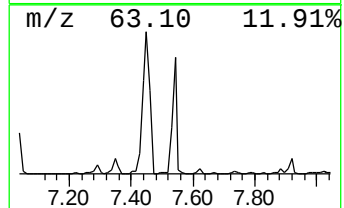
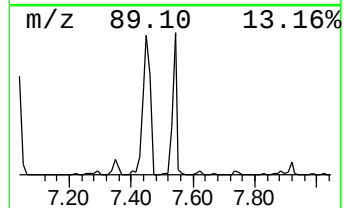
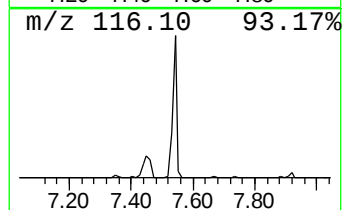
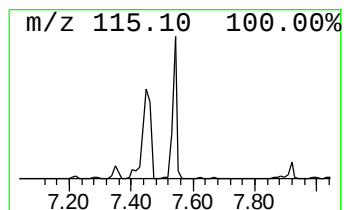
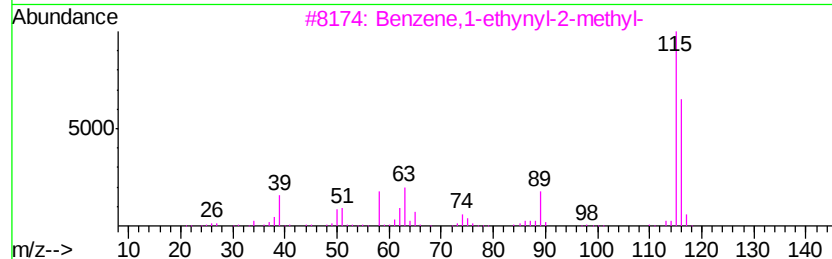
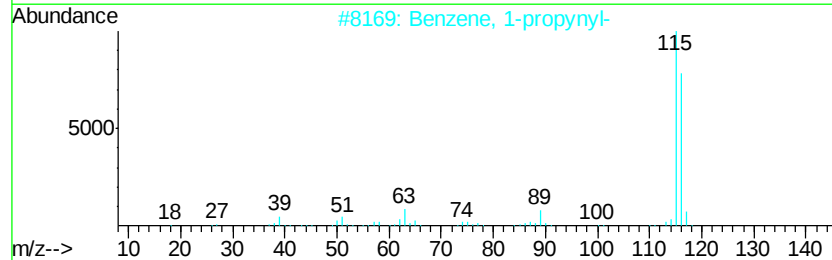
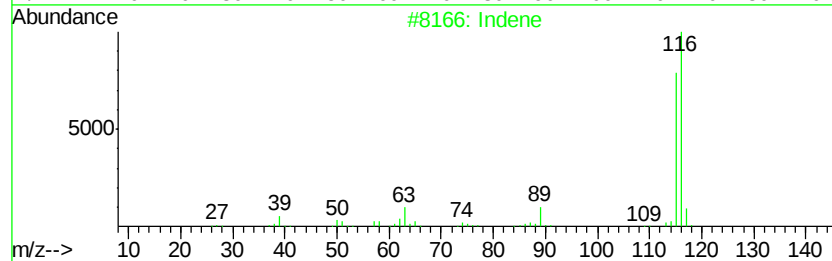
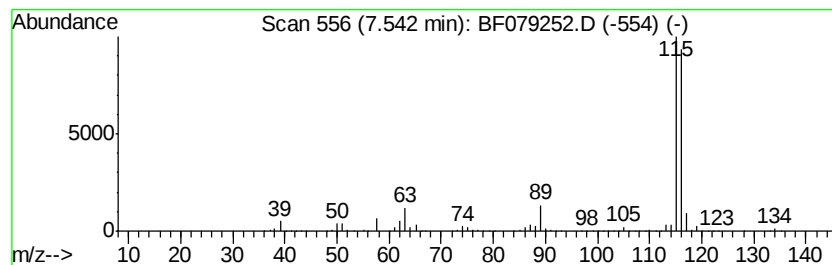
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Indene Concentration Rank 7

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 7.54 | 265.15 ng | 3909390 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Indene                       | 116 | C9H8    | 000095-13-6 | 97   |
| 2    |    | Benzene, 1-propynyl-         | 116 | C9H8    | 000673-32-5 | 91   |
| 3    |    | Benzene, 1-ethynyl-2-methyl- | 116 | C9H8    | 000766-47-2 | 91   |
| 4    |    | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8    | 000766-97-2 | 90   |
| 5    |    | Benzene, 1,2-propadienyl-    | 116 | C9H8    | 002327-99-3 | 80   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

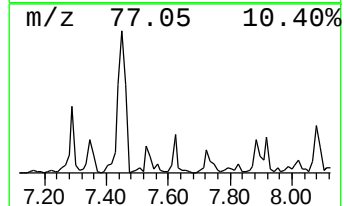
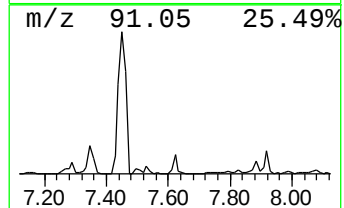
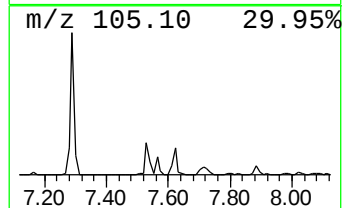
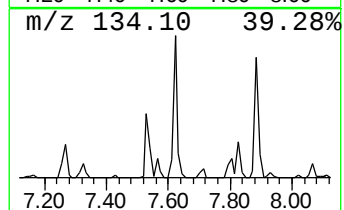
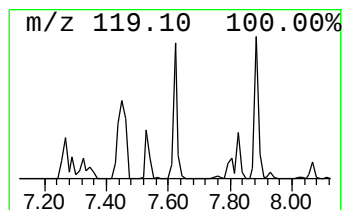
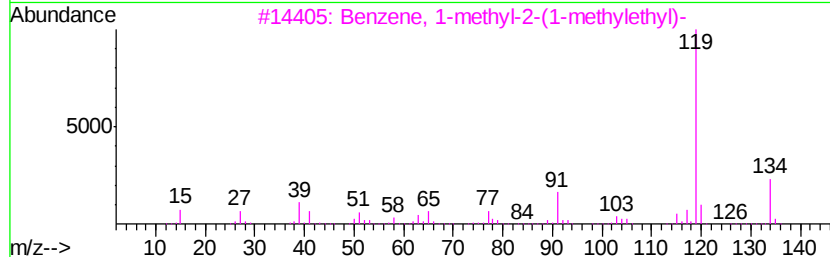
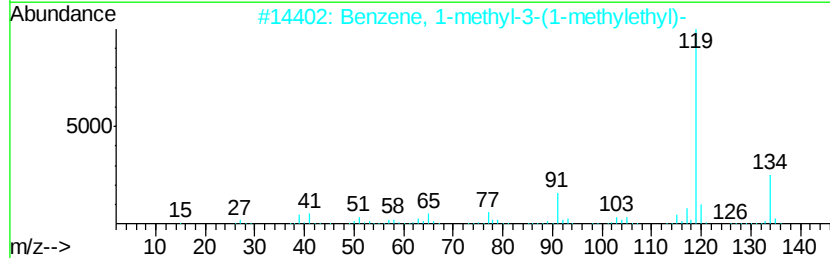
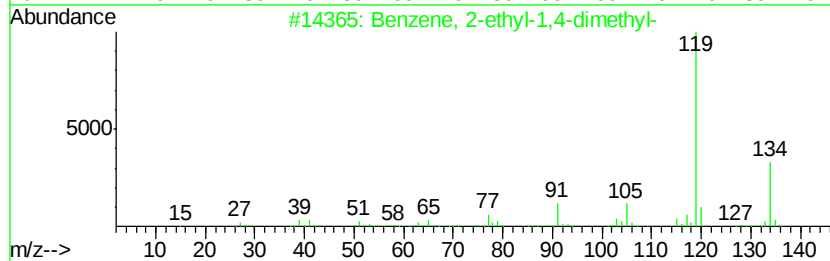
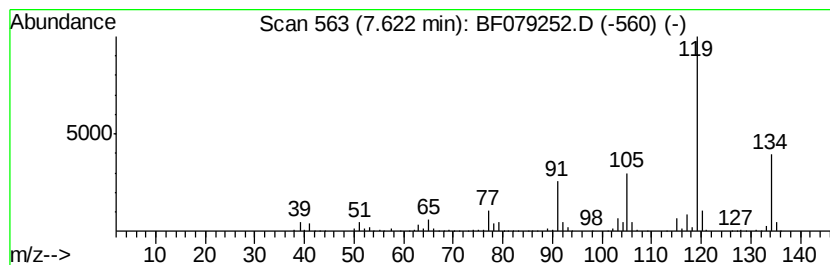
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 15

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.62 | 50.88 ng | 750240 | 1,4-Dichlorobenzene-d4 | 7.22 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-ethyl-1,4-dimethyl-       | 134 | C10H14  | 001758-88-9 | 95   |
| 2    |    | Benzene, 1-methyl-3-(1-methylethyl)- | 134 | C10H14  | 000535-77-3 | 93   |
| 3    |    | Benzene, 1-methyl-2-(1-methylethyl)- | 134 | C10H14  | 000527-84-4 | 91   |
| 4    |    | Benzene, 1,2,3,5-tetramethyl-        | 134 | C10H14  | 000527-53-7 | 90   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl-       | 134 | C10H14  | 000933-98-2 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

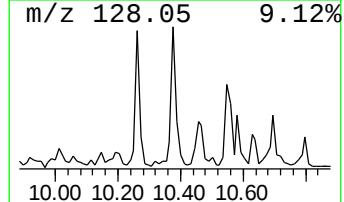
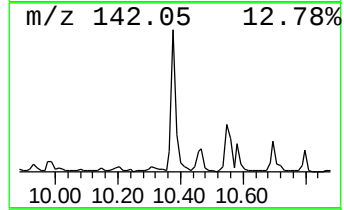
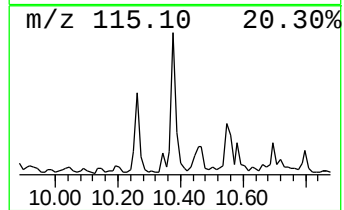
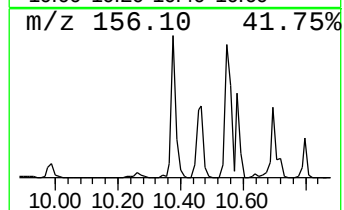
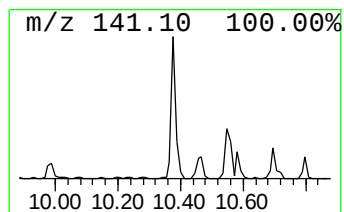
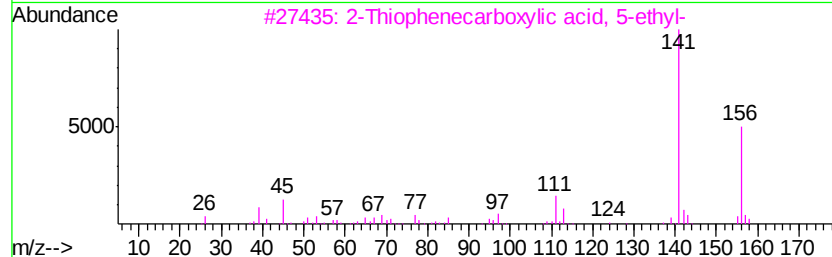
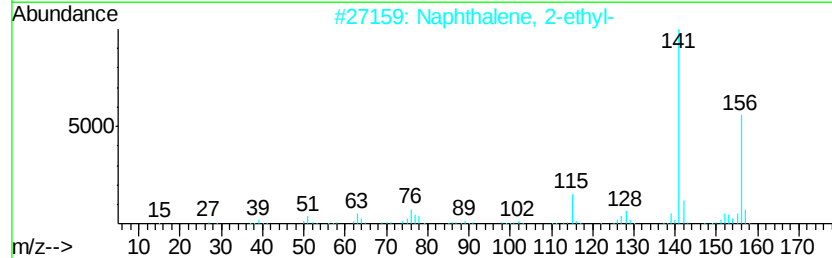
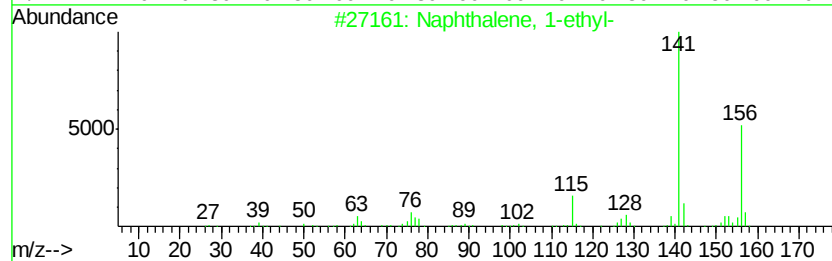
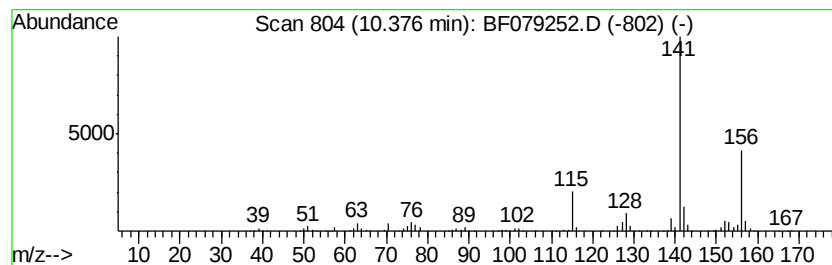
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Naphthalene, 1-ethyl- Concentration Rank 20

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 10.38 | 27.81 ng | 1219720 | Acenaphthene-d10 | 10.97 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-ethyl-                | 156 | C12H12  | 001127-76-0 | 96   |
| 2    |    | Naphthalene, 2-ethyl-                | 156 | C12H12  | 000939-27-5 | 96   |
| 3    |    | 2-Thiophenecarboxylic acid, 5-ethyl- | 156 | C7H8O2S | 023229-72-3 | 64   |
| 4    |    | Naphthalene, 1,3-dimethyl-           | 156 | C12H12  | 000575-41-7 | 47   |
| 5    |    | Naphthalene, 2,3-dimethyl-           | 156 | C12H12  | 000581-40-8 | 45   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

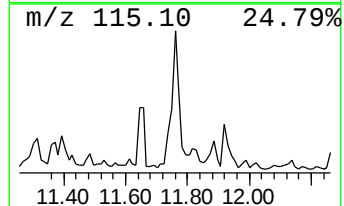
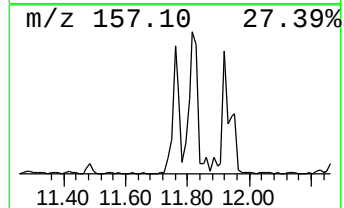
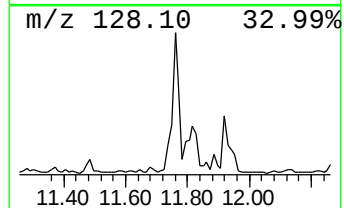
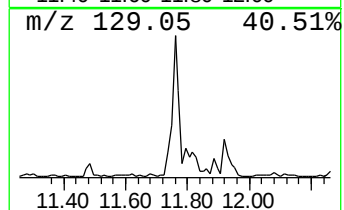
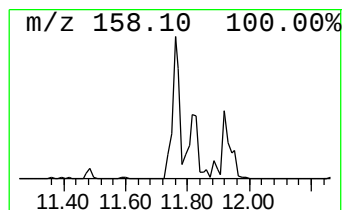
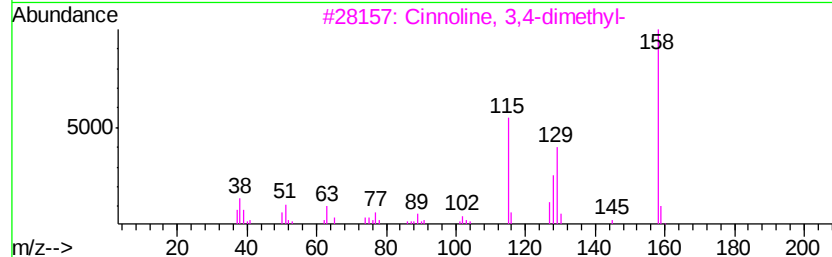
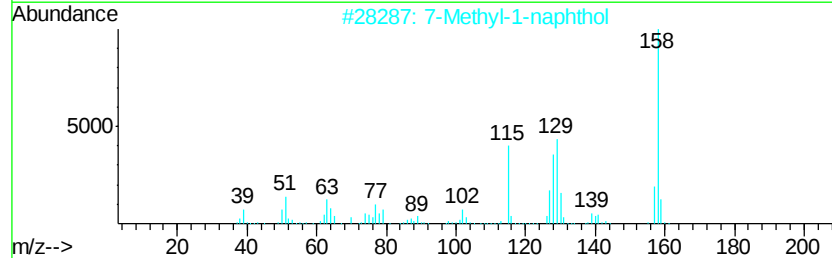
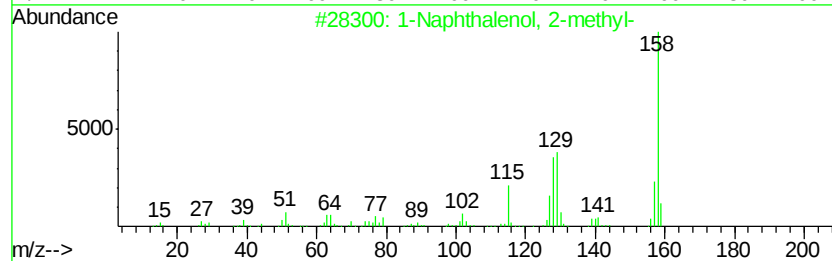
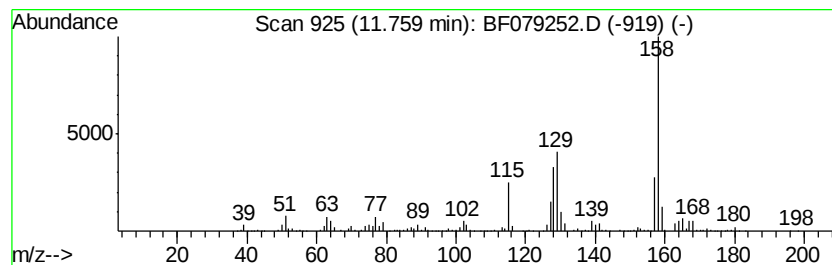
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 1-Naphthalenol, 2-methyl- Concentration Rank 17

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.76 | 44.08 ng | 1933640 | Acenaphthene-d10 | 10.97 |

| Hit# | of | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|----------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1-Naphthalenol, 2-methyl-        | 158 | C11H10O  | 007469-77-4 | 94   |
| 2    |    | 7-Methyl-1-naphthol              | 158 | C11H10O  | 006939-33-9 | 87   |
| 3    |    | Cinnoline, 3,4-dimethyl-         | 158 | C10H10N2 | 003929-83-7 | 64   |
| 4    |    | 1,8-Naphthyridine, 2,6-dimethyl- | 158 | C10H10N2 | 014757-45-0 | 49   |
| 5    |    | 6-Quinolinamine, 2-methyl-       | 158 | C10H10N2 | 065079-19-8 | 49   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051415\  
Data File : BF079252.D  
Acq On : 15 May 2015 1:23  
Operator : TP/IZ  
Sample : G2216-01  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TW-4

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.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 |
| Butane, 2-methoxy... | 1.66  | 37.4    | ng    | 551500   | 1                     | 7.22  | 294879 | 20.0 |
| Benzene, (1-methy... | 6.19  | 49.2    | ng    | 725522   | 1                     | 7.22  | 294879 | 20.0 |
| Benzene, 1-ethyl-... | 6.64  | 54.5    | ng    | 804040   | 1                     | 7.22  | 294879 | 20.0 |
| Benzene, 1-ethyl-... | 6.67  | 98.7    | ng    | 1455780  | 1                     | 7.22  | 294879 | 20.0 |
| unknown6.94          | 6.94  | 76.9    | ng    | 1134310  | 1                     | 7.22  | 294879 | 20.0 |
| Benzene, 1-propenyl- | 7.35  | 89.2    | ng    | 1315470  | 1                     | 7.22  | 294879 | 20.0 |
| Indane               | 7.45  | 837.2   | ng    | 12343000 | 1                     | 7.22  | 294879 | 20.0 |
| Indene               | 7.54  | 265.1   | ng    | 3909390  | 1                     | 7.22  | 294879 | 20.0 |
| Benzene, 2-ethyl-... | 7.62  | 50.9    | ng    | 750240   | 1                     | 7.22  | 294879 | 20.0 |
| Naphthalene, 1-et... | 10.38 | 27.8    | ng    | 1219720  | 3                     | 10.97 | 877340 | 20.0 |
| 1-Naphthalenol, 2... | 11.76 | 44.1    | ng    | 1933640  | 3                     | 10.97 | 877340 | 20.0 |