

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
 Data File : BF083980.D  
 Acq On : 20 Dec 2015 5:27  
 Operator : UM/SJ  
 Sample : G4851-01  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-6

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-BF121815.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 5.036    | 255        | 258      | 263       | rBV   | 268397      | 388501     | 22.84%       | 1.435%     |
| 2      | 5.470    | 294        | 296      | 298       | rBV   | 1205951     | 1344370    | 79.02%       | 4.967%     |
| 3      | 6.499    | 383        | 386      | 388       | rBV   | 1423125     | 1572129    | 92.41%       | 5.809%     |
| 4      | 6.624    | 394        | 397      | 399       | rBV   | 1595608     | 1635714    | 96.15%       | 6.044%     |
| 5      | 6.693    | 399        | 403      | 406       | rVB   | 51967       | 73079      | 4.30%        | 0.270%     |
| 6      | 6.853    | 415        | 417      | 419       | rBV   | 301930      | 435562     | 25.60%       | 1.609%     |
| 7      | 7.002    | 428        | 430      | 432       | rBV   | 1196774     | 1202793    | 70.70%       | 4.444%     |
| 8      | 7.127    | 439        | 441      | 443       | rVB   | 25548       | 36289      | 2.13%        | 0.134%     |
| 9      | 7.173    | 443        | 445      | 446       | rBV2  | 31365       | 38246      | 2.25%        | 0.141%     |
| 10     | 7.242    | 449        | 451      | 453       | rBV2  | 42732       | 44688      | 2.63%        | 0.165%     |
| 11     | 7.413    | 463        | 466      | 468       | rBV   | 938450      | 911166     | 53.56%       | 3.367%     |
| 12     | 7.459    | 468        | 470      | 471       | rVB   | 93322       | 90695      | 5.33%        | 0.335%     |
| 13     | 7.573    | 475        | 480      | 482       | rBV2  | 20685       | 44182      | 2.60%        | 0.163%     |
| 14     | 7.653    | 485        | 487      | 489       | rVB2  | 45582       | 64463      | 3.79%        | 0.238%     |
| 15     | 7.779    | 492        | 498      | 500       | rBV5  | 38265       | 114072     | 6.71%        | 0.421%     |
| 16     | 7.824    | 500        | 502      | 503       | rBV   | 41244       | 37004      | 2.18%        | 0.137%     |
| 17     | 7.859    | 503        | 505      | 507       | rBV2  | 45301       | 77466      | 4.55%        | 0.286%     |
| 18     | 7.893    | 507        | 508      | 510       | rVB2  | 53283       | 53324      | 3.13%        | 0.197%     |
| 19     | 7.939    | 510        | 512      | 513       | rBV   | 33141       | 36551      | 2.15%        | 0.135%     |
| 20     | 7.973    | 513        | 515      | 516       | rVB2  | 38814       | 48883      | 2.87%        | 0.181%     |
| 21     | 8.007    | 516        | 518      | 520       | rBV2  | 28243       | 40911      | 2.40%        | 0.151%     |
| 22     | 8.133    | 526        | 529      | 531       | rVB2  | 596431      | 652100     | 38.33%       | 2.409%     |
| 23     | 8.202    | 533        | 535      | 536       | rVB   | 96197       | 81045      | 4.76%        | 0.299%     |
| 24     | 8.304    | 541        | 544      | 545       | rBV3  | 40096       | 71590      | 4.21%        | 0.265%     |
| 25     | 8.430    | 551        | 555      | 558       | rBV3  | 86969       | 163842     | 9.63%        | 0.605%     |
| 26     | 8.487    | 558        | 560      | 561       | rVB   | 76979       | 61680      | 3.63%        | 0.228%     |
| 27     | 8.522    | 561        | 563      | 564       | rBV   | 78980       | 82857      | 4.87%        | 0.306%     |
| 28     | 8.567    | 564        | 567      | 569       | rBV   | 146825      | 244903     | 14.40%       | 0.905%     |
| 29     | 8.636    | 571        | 573      | 575       | rBV2  | 102402      | 116037     | 6.82%        | 0.429%     |
| 30     | 8.682    | 575        | 577      | 579       | rBV3  | 30974       | 50495      | 2.97%        | 0.187%     |
| 31     | 8.727    | 579        | 581      | 583       | rBV   | 223436      | 268328     | 15.77%       | 0.991%     |
| 32     | 8.796    | 585        | 587      | 588       | rVB   | 38032       | 39136      | 2.30%        | 0.145%     |
| 33     | 8.830    | 588        | 590      | 593       | rVB2  | 105622      | 149184     | 8.77%        | 0.551%     |
| 34     | 8.887    | 593        | 595      | 596       | rBV2  | 44378       | 66519      | 3.91%        | 0.246%     |

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Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |     |     |     |      |         |         |         |        |
|----|--------|-----|-----|-----|------|---------|---------|---------|--------|
| 35 | 8.956  | 599 | 601 | 603 | rBV3 | 80542   | 102149  | 6.00%   | 0.377% |
| 36 | 9.013  | 605 | 606 | 607 | rBV  | 67179   | 66750   | 3.92%   | 0.247% |
| 37 | 9.047  | 607 | 609 | 611 | rVB3 | 27868   | 39650   | 2.33%   | 0.147% |
| 38 | 9.093  | 611 | 613 | 615 | rVB3 | 57353   | 82421   | 4.84%   | 0.305% |
| 39 | 9.162  | 617 | 619 | 621 | rVB2 | 262320  | 238148  | 14.00%  | 0.880% |
| 40 | 9.207  | 621 | 623 | 625 | rVB  | 1901638 | 1701239 | 100.00% | 6.286% |
| 41 | 9.253  | 625 | 627 | 628 | rVB2 | 28352   | 35164   | 2.07%   | 0.130% |
| 42 | 9.299  | 628 | 631 | 633 | rBV  | 387426  | 501837  | 29.50%  | 1.854% |
| 43 | 9.356  | 633 | 636 | 639 | rVB3 | 90868   | 172940  | 10.17%  | 0.639% |
| 44 | 9.413  | 639 | 641 | 643 | rVB3 | 43302   | 49395   | 2.90%   | 0.183% |
| 45 | 9.459  | 643 | 645 | 646 | rBV2 | 38504   | 59676   | 3.51%   | 0.220% |
| 46 | 9.550  | 649 | 653 | 656 | rBV6 | 94207   | 252719  | 14.85%  | 0.934% |
| 47 | 9.596  | 656 | 657 | 660 | rBV3 | 398174  | 785362  | 46.16%  | 2.902% |
| 48 | 9.699  | 665 | 666 | 668 | rVV2 | 40423   | 58222   | 3.42%   | 0.215% |
| 49 | 9.756  | 668 | 671 | 673 | rVV4 | 86224   | 172045  | 10.11%  | 0.636% |
| 50 | 9.802  | 673 | 675 | 676 | rVV  | 174347  | 224227  | 13.18%  | 0.828% |
| 51 | 9.825  | 676 | 677 | 679 | rVV  | 492018  | 409122  | 24.05%  | 1.512% |
| 52 | 9.882  | 679 | 682 | 684 | rVV  | 673735  | 859975  | 50.55%  | 3.178% |
| 53 | 9.928  | 684 | 686 | 689 | rVV4 | 82025   | 144104  | 8.47%   | 0.532% |
| 54 | 9.996  | 690 | 692 | 693 | rVB  | 74380   | 70312   | 4.13%   | 0.260% |
| 55 | 10.088 | 698 | 700 | 703 | rVV4 | 117866  | 182254  | 10.71%  | 0.673% |
| 56 | 10.145 | 703 | 705 | 709 | rVB2 | 146915  | 209133  | 12.29%  | 0.773% |
| 57 | 10.202 | 709 | 710 | 713 | rVB3 | 107708  | 152737  | 8.98%   | 0.564% |
| 58 | 10.259 | 713 | 715 | 716 | rBV2 | 58219   | 70827   | 4.16%   | 0.262% |
| 59 | 10.293 | 716 | 718 | 719 | rVV2 | 82388   | 127092  | 7.47%   | 0.470% |
| 60 | 10.328 | 719 | 721 | 722 | rVV  | 378222  | 450370  | 26.47%  | 1.664% |
| 61 | 10.373 | 724 | 725 | 728 | rVB3 | 64646   | 85429   | 5.02%   | 0.316% |
| 62 | 10.453 | 728 | 732 | 733 | rBV4 | 71484   | 127802  | 7.51%   | 0.472% |
| 63 | 10.488 | 733 | 735 | 737 | rBV3 | 34891   | 71641   | 4.21%   | 0.265% |
| 64 | 10.545 | 737 | 740 | 743 | rVV  | 383688  | 422411  | 24.83%  | 1.561% |
| 65 | 10.590 | 743 | 744 | 746 | rVB2 | 92631   | 115144  | 6.77%   | 0.425% |
| 66 | 10.625 | 746 | 747 | 749 | rBV2 | 88526   | 141856  | 8.34%   | 0.524% |
| 67 | 10.670 | 749 | 751 | 753 | rVB  | 899925  | 933782  | 54.89%  | 3.450% |
| 68 | 10.796 | 760 | 762 | 766 | rVB  | 570970  | 1002712 | 58.94%  | 3.705% |
| 69 | 11.002 | 776 | 780 | 783 | rVB6 | 123445  | 342536  | 20.13%  | 1.266% |
| 70 | 11.116 | 789 | 790 | 794 | rVB4 | 61369   | 83352   | 4.90%   | 0.308% |
| 71 | 11.242 | 799 | 801 | 802 | rVV  | 467677  | 424654  | 24.96%  | 1.569% |

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 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-6

Integration Parameters: rteint.p  
 Integrator: RTE  
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 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-BF121815.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 11.276 | 802  | 804  | 806  | rVV  | 329970  | 374328  | 22.00% | 1.383% |
| 73  | 11.368 | 810  | 812  | 814  | rVV  | 698220  | 618423  | 36.35% | 2.285% |
| 74  | 11.425 | 814  | 817  | 819  | rVB3 | 58951   | 108354  | 6.37%  | 0.400% |
| 75  | 11.551 | 826  | 828  | 829  | rVB2 | 50776   | 42382   | 2.49%  | 0.157% |
| 76  | 11.619 | 832  | 834  | 836  | rVB2 | 64898   | 86599   | 5.09%  | 0.320% |
| 77  | 11.665 | 836  | 838  | 840  | rBV  | 367635  | 312760  | 18.38% | 1.156% |
| 78  | 11.985 | 863  | 866  | 870  | rVB4 | 52475   | 165872  | 9.75%  | 0.613% |
| 79  | 12.076 | 872  | 874  | 876  | rVB  | 224242  | 243657  | 14.32% | 0.900% |
| 80  | 12.248 | 886  | 889  | 892  | rVB4 | 38478   | 79806   | 4.69%  | 0.295% |
| 81  | 12.351 | 896  | 898  | 901  | rVV2 | 69498   | 113898  | 6.70%  | 0.421% |
| 82  | 12.419 | 901  | 904  | 905  | rVV2 | 59589   | 86686   | 5.10%  | 0.320% |
| 83  | 12.465 | 905  | 908  | 910  | rVV  | 170282  | 211736  | 12.45% | 0.782% |
| 84  | 12.602 | 919  | 920  | 923  | rVB2 | 40687   | 45337   | 2.66%  | 0.168% |
| 85  | 12.831 | 939  | 940  | 941  | rVV  | 180745  | 127615  | 7.50%  | 0.472% |
| 86  | 12.854 | 941  | 942  | 946  | rVB4 | 21495   | 36001   | 2.12%  | 0.133% |
| 87  | 12.945 | 948  | 950  | 953  | rBV  | 1302627 | 1507963 | 88.64% | 5.572% |
| 88  | 13.185 | 969  | 971  | 974  | rVB  | 115886  | 103170  | 6.06%  | 0.381% |
| 89  | 13.425 | 990  | 992  | 994  | rVV  | 37282   | 51107   | 3.00%  | 0.189% |
| 90  | 13.482 | 994  | 997  | 999  | rVV  | 56252   | 93098   | 5.47%  | 0.344% |
| 91  | 13.528 | 999  | 1001 | 1003 | rVV  | 75859   | 92783   | 5.45%  | 0.343% |
| 92  | 13.562 | 1003 | 1004 | 1006 | rVV  | 41832   | 68217   | 4.01%  | 0.252% |
| 93  | 13.596 | 1006 | 1007 | 1010 | rVV  | 53405   | 75859   | 4.46%  | 0.280% |
| 94  | 13.642 | 1010 | 1011 | 1014 | rVB  | 44537   | 52608   | 3.09%  | 0.194% |
| 95  | 13.848 | 1026 | 1029 | 1032 | rBV  | 78879   | 107635  | 6.33%  | 0.398% |
| 96  | 13.916 | 1032 | 1035 | 1037 | rBV2 | 26091   | 54108   | 3.18%  | 0.200% |
| 97  | 13.996 | 1040 | 1042 | 1045 | rVB  | 422478  | 430927  | 25.33% | 1.592% |
| 98  | 14.477 | 1081 | 1084 | 1086 | rBV2 | 28223   | 47428   | 2.79%  | 0.175% |
| 99  | 15.425 | 1165 | 1167 | 1175 | rVB  | 218606  | 362890  | 21.33% | 1.341% |
| 100 | 15.871 | 1203 | 1206 | 1213 | rBV3 | 18621   | 56174   | 3.30%  | 0.208% |

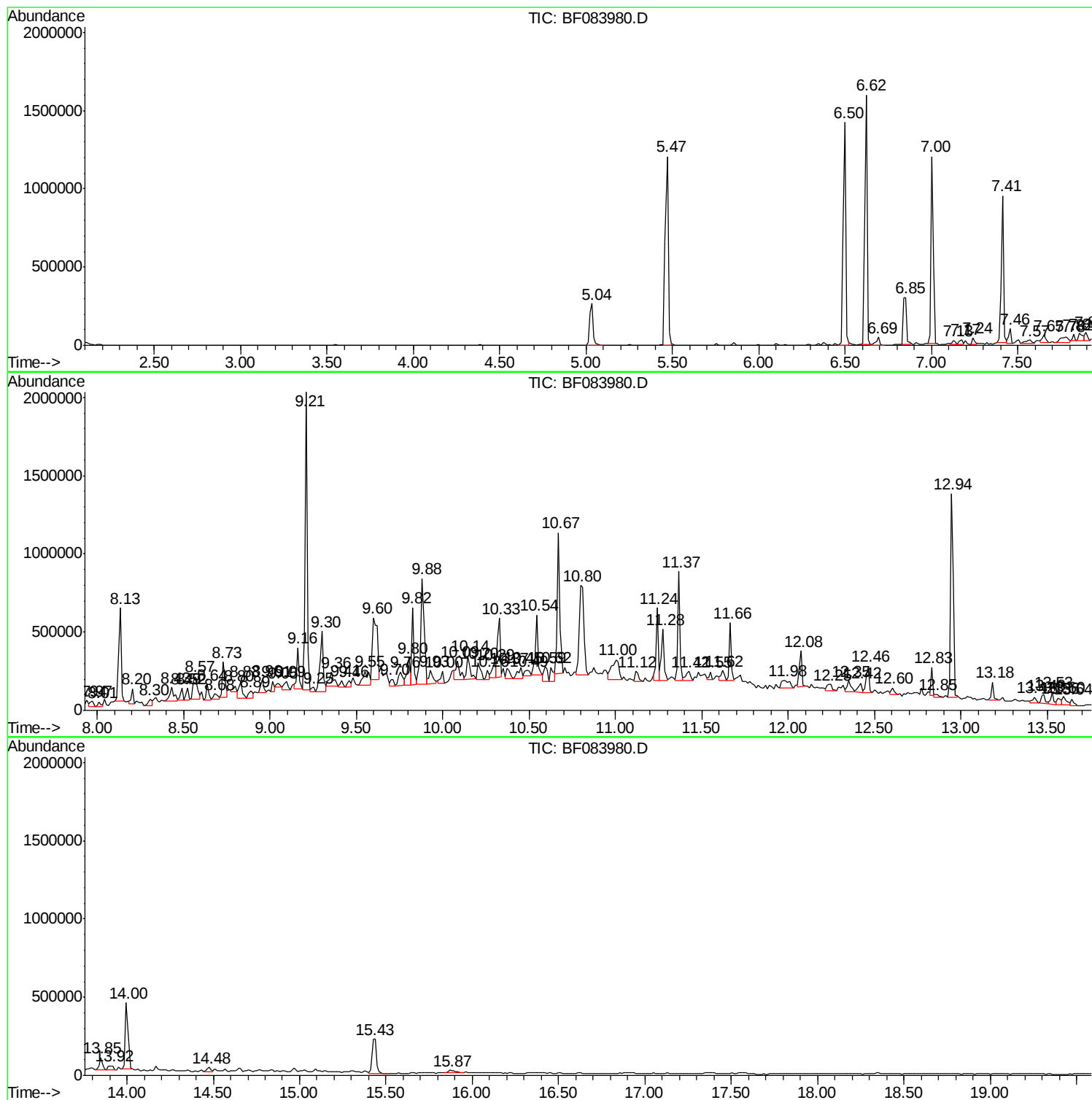
Sum of corrected areas: 27064414

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Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.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\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

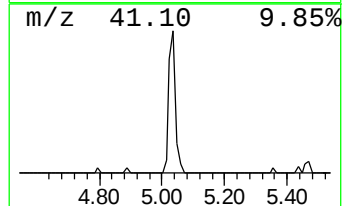
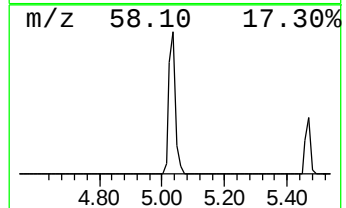
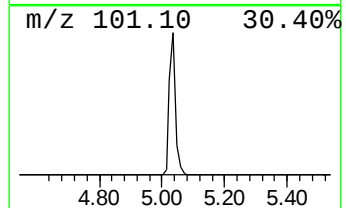
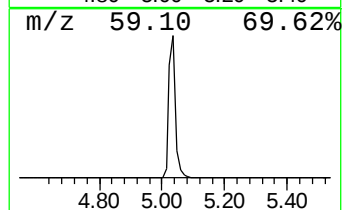
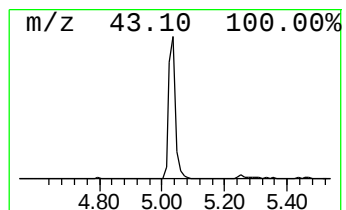
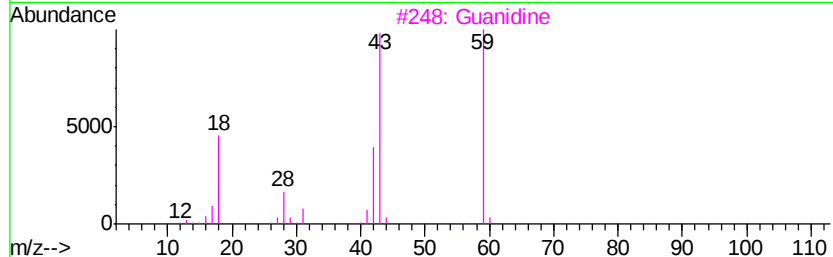
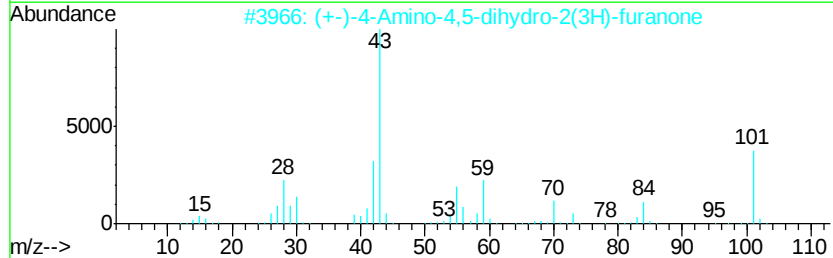
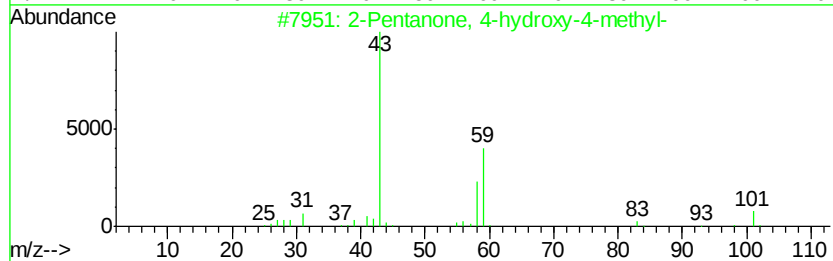
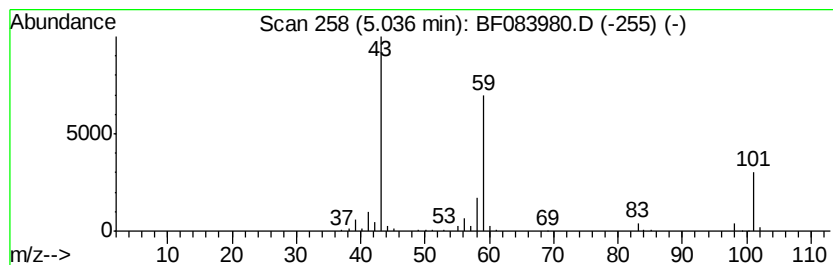
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.04 | 17.84 ng | 388501 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-   | 116 | C6H12O2 | 000123-42-2 | 50   |
| 2    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 47   |
| 3    |    | Guanidine                          | 59  | CH5N3   | 000113-00-8 | 43   |
| 4    |    | 4-Methoxy-1-pentene                | 100 | C6H12O  | 098386-09-5 | 27   |
| 5    |    | 2,3-Butanedione, monooxime         | 101 | C4H7NO2 | 000057-71-6 | 17   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

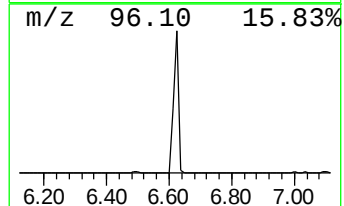
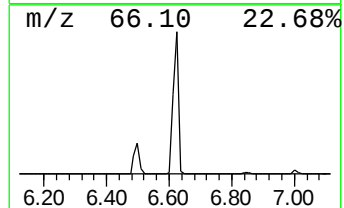
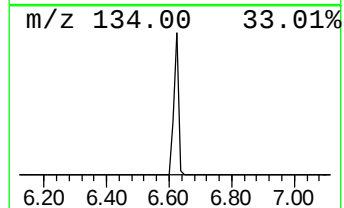
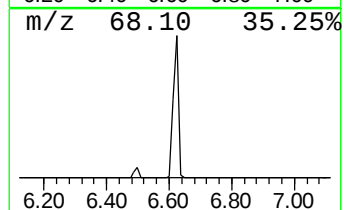
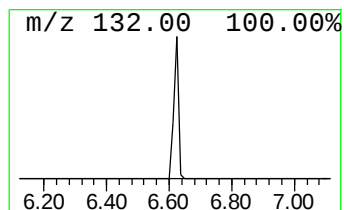
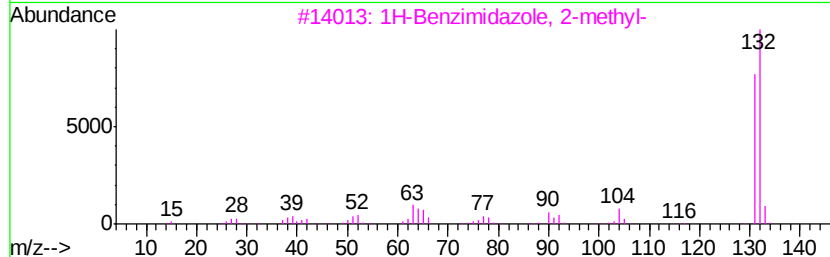
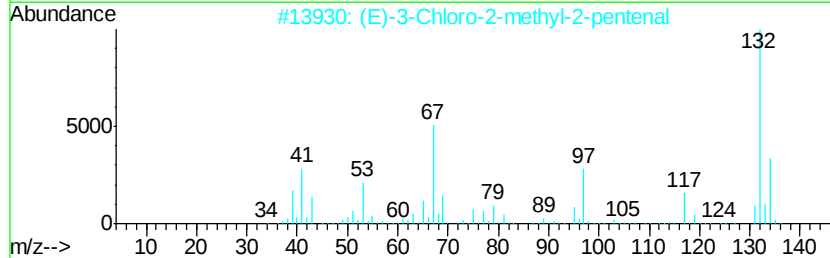
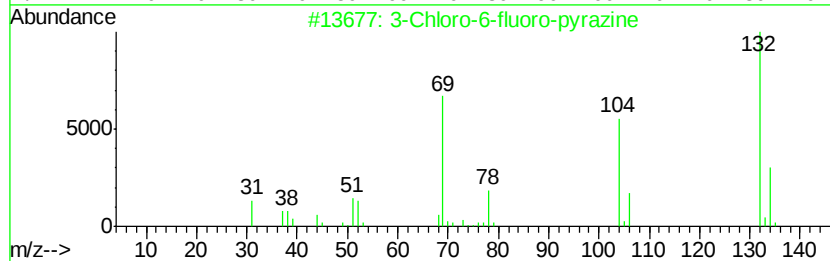
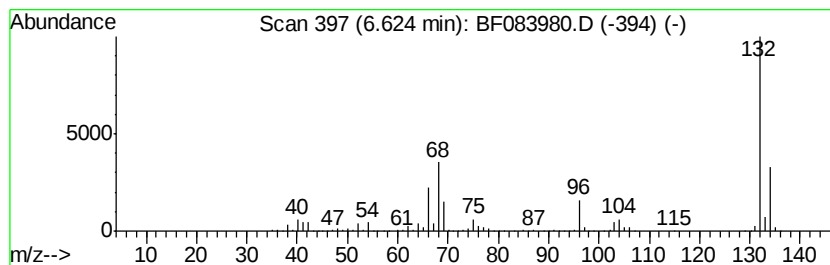
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.62 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.62 | 75.11 ng | 1635710 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|---|----------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    |   | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 25   |
| 3    |    |   | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 10   |
| 4    |    |   | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 9    |
| 5    |    |   | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

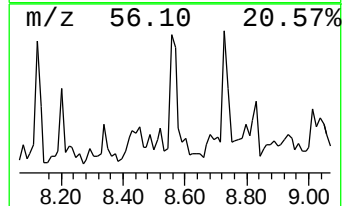
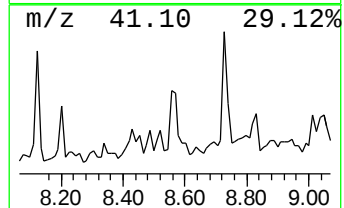
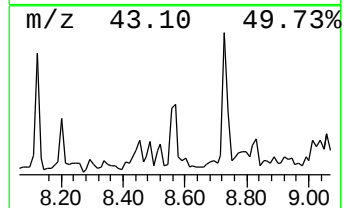
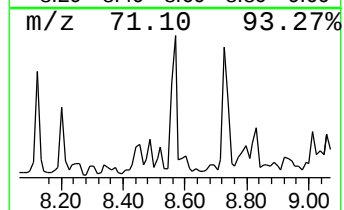
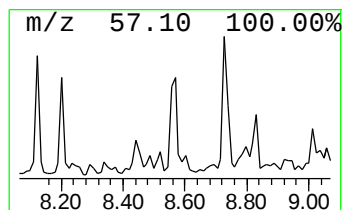
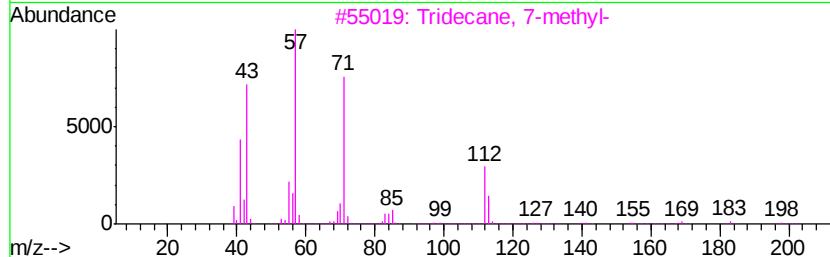
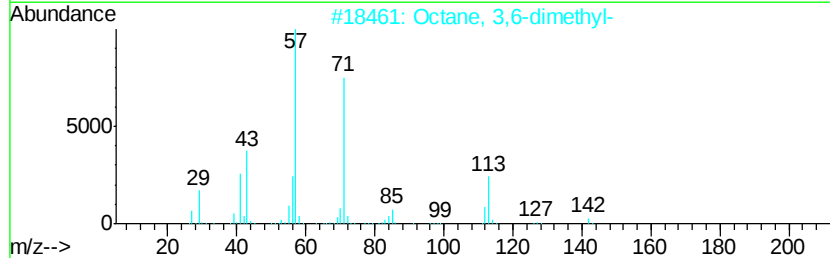
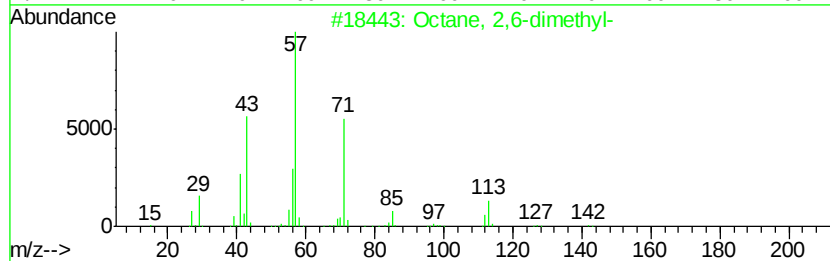
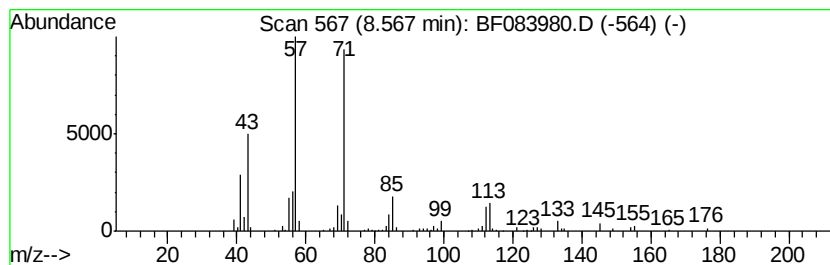
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 Octane, 2,6-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.57 | 7.51 ng | 244903 | Naphthalene-d8   | 8.13 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Octane, 2,6-dimethyl-       | 142 | C10H22  | 002051-30-1 | 86   |
| 2    |    | Octane, 3,6-dimethyl-       | 142 | C10H22  | 015869-94-0 | 72   |
| 3    |    | Tridecane, 7-methyl-        | 198 | C14H30  | 026730-14-3 | 64   |
| 4    |    | Dodecane, 2,6,11-trimethyl- | 212 | C15H32  | 031295-56-4 | 64   |
| 5    |    | Octane, 2,3,7-trimethyl-    | 156 | C11H24  | 062016-34-6 | 59   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
Data File : BF083980.D  
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Operator : UM/SJ  
Sample : G4851-01  
Misc :  
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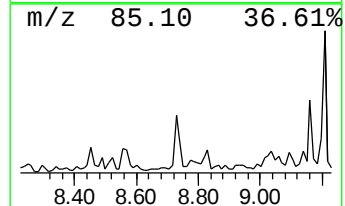
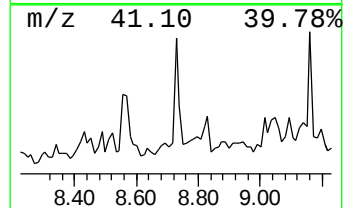
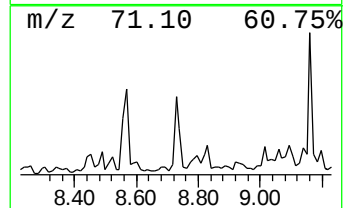
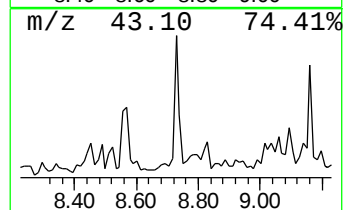
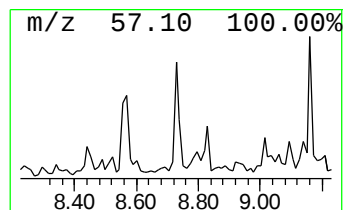
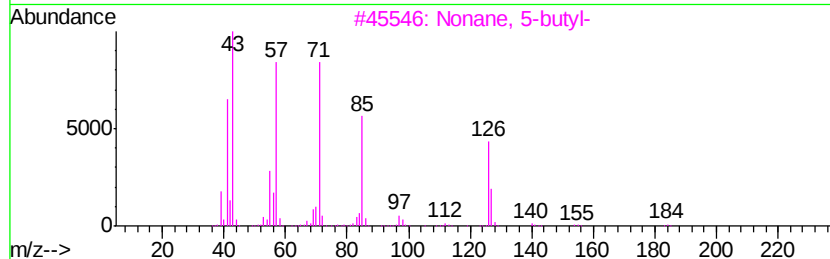
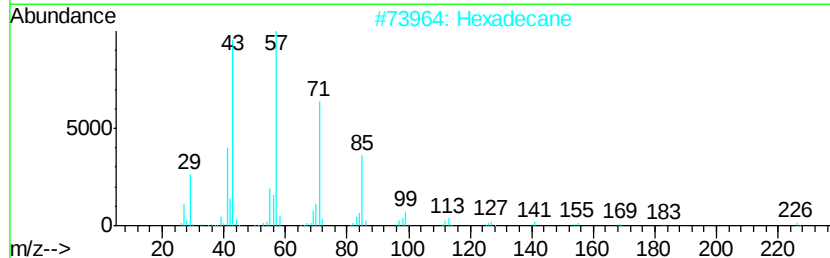
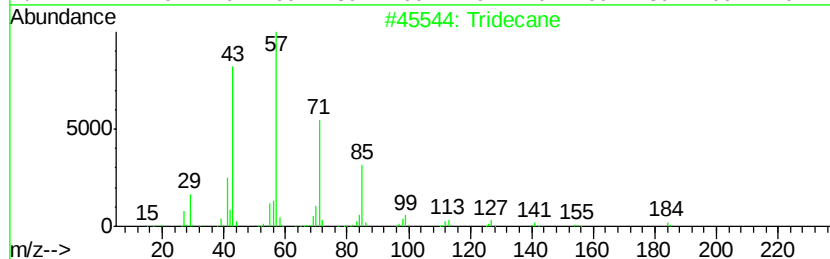
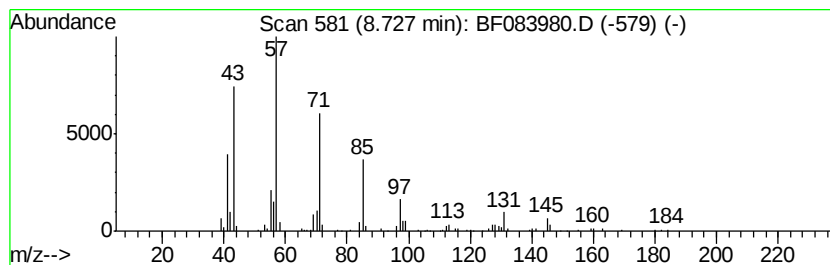
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Tridecane Concentration Rank 13

| R.T.      | EstConc                   | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------|--------|------------------|-------------|------|
| 8.73      | 8.23 ng                   | 268328 | Naphthalene-d8   | 8.13        |      |
| Hit# of 5 | Tentative ID              | MW     | MolForm          | CAS#        | Qual |
| 1         | Tridecane                 | 184    | C13H28           | 000629-50-5 | 89   |
| 2         | Hexadecane                | 226    | C16H34           | 000544-76-3 | 68   |
| 3         | Nonane, 5-butyl-          | 184    | C13H28           | 017312-63-9 | 60   |
| 4         | Undecane, 2,6-dimethyl-   | 184    | C13H28           | 017301-23-4 | 55   |
| 5         | Decane, 6-ethyl-2-methyl- | 184    | C13H28           | 062108-21-8 | 53   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

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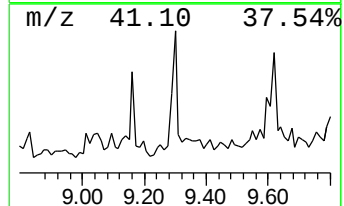
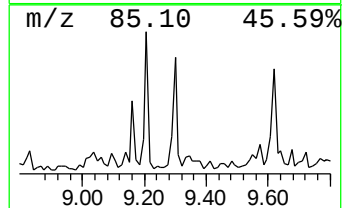
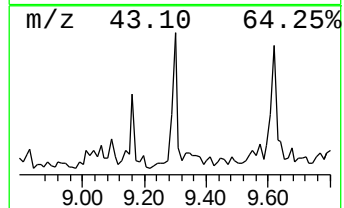
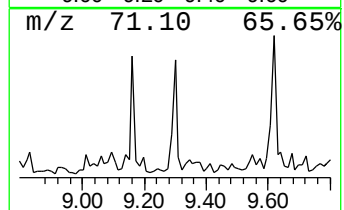
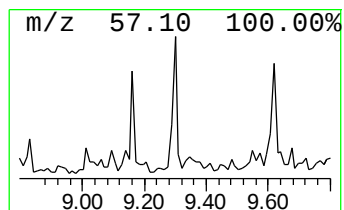
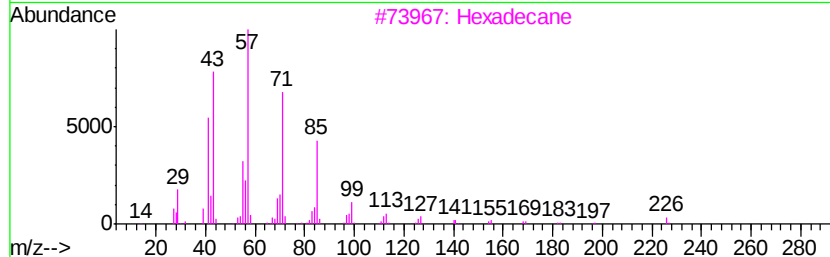
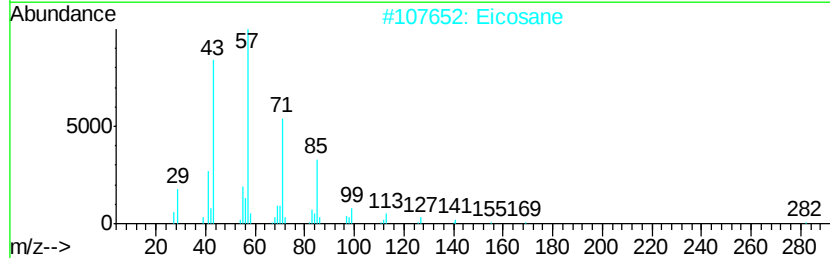
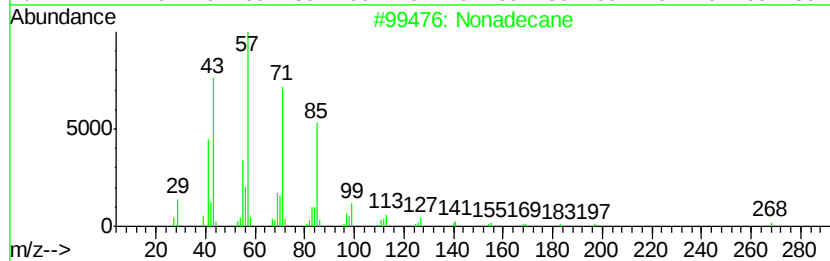
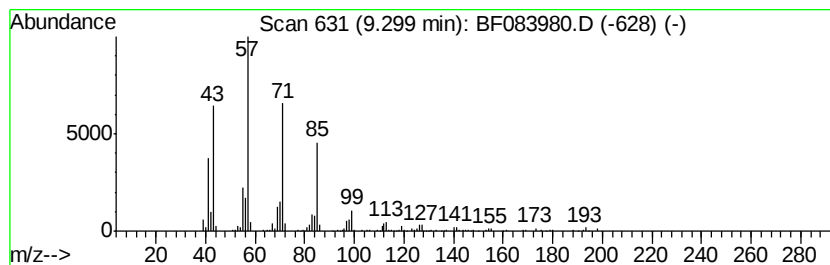
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Nonadecane Concentration Rank 7

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.30 | 11.67 ng | 501837 | Acenaphthene-d10 | 9.88 |

| Hit# of | 5          | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------|--------------|-----|---------|-------------|------|
| 1       | Nonadecane |              | 268 | C19H40  | 000629-92-5 | 91   |
| 2       | Eicosane   |              | 282 | C20H42  | 000112-95-8 | 91   |
| 3       | Hexadecane |              | 226 | C16H34  | 000544-76-3 | 90   |
| 4       | Tridecane  |              | 184 | C13H28  | 000629-50-5 | 90   |
| 5       | Dodecane   |              | 170 | C12H26  | 000112-40-3 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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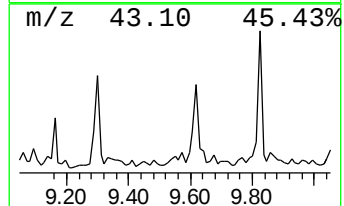
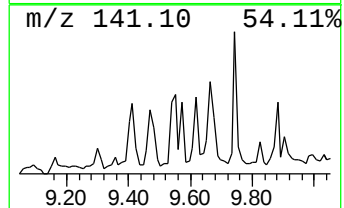
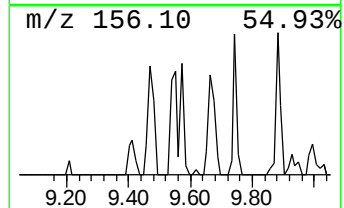
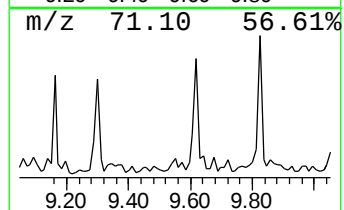
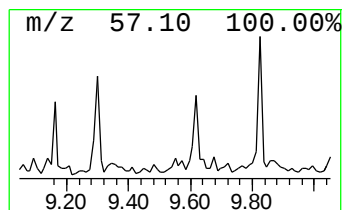
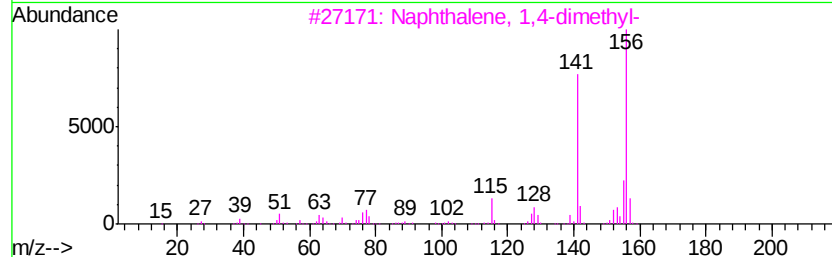
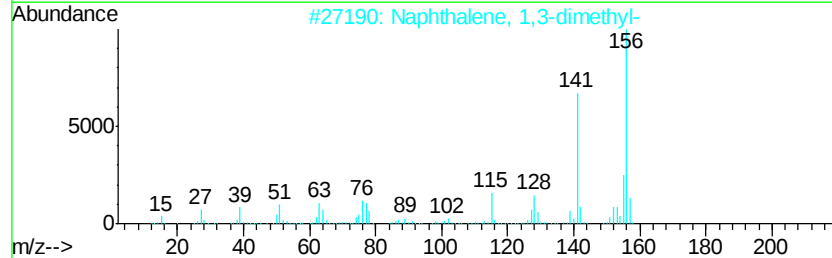
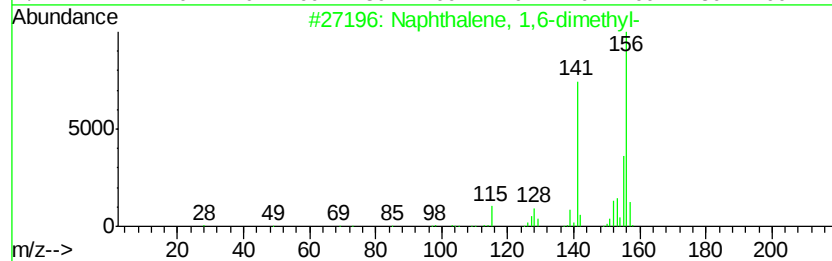
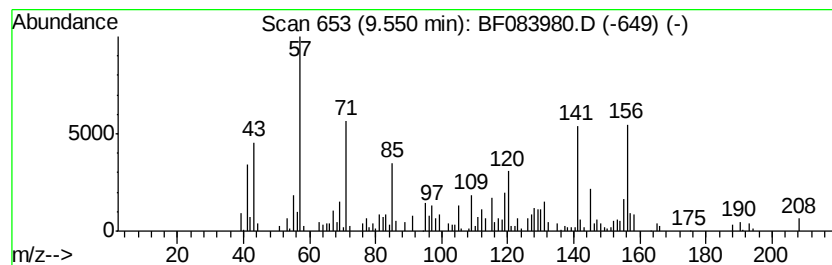
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 1,6-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.55 | 5.88 ng | 252719 | Acenaphthene-d10 | 9.88 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 55   |
| 2    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 50   |
| 3    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 42   |
| 4    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 42   |
| 5    |    | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 42   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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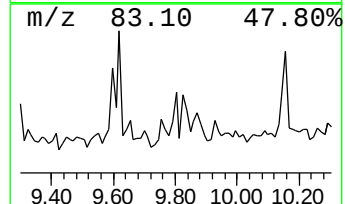
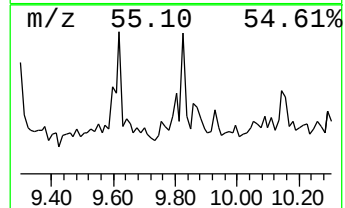
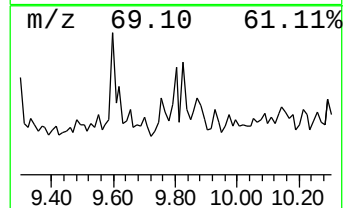
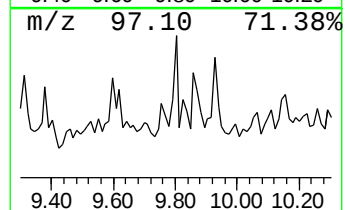
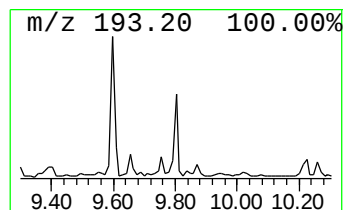
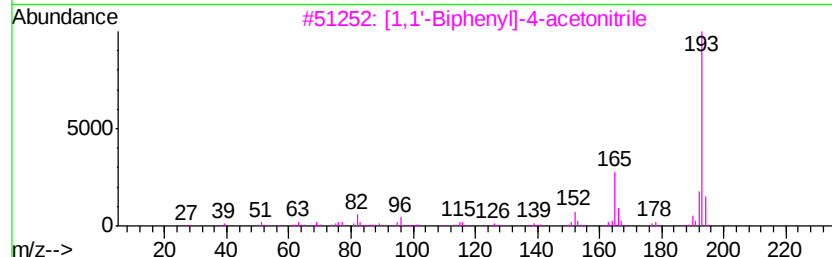
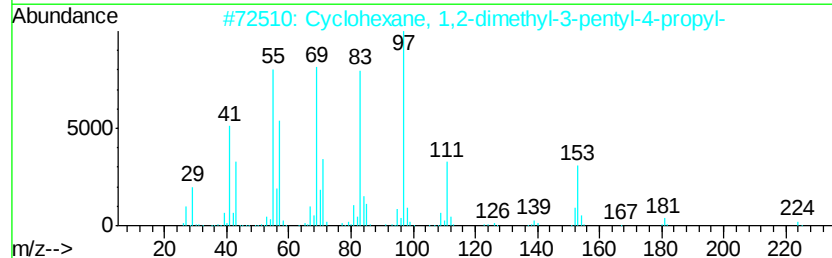
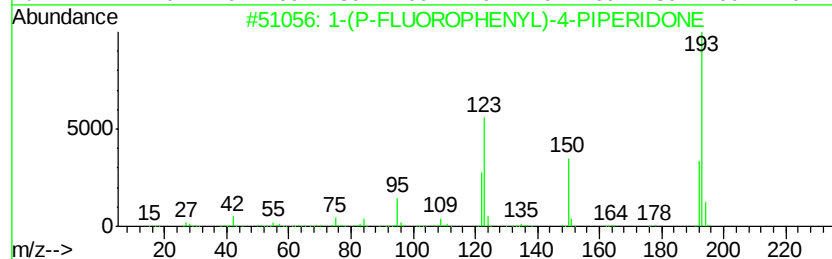
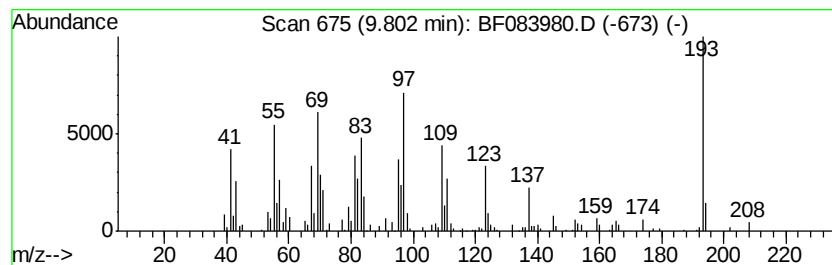
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 unknown9.80 Concentration Rank 20

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.80 | 5.21 ng | 224227 | Acenaphthene-d10 | 9.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1-(P-FLUOROPHENYL)-4-PIPERIDONE     | 193 | C11H12FNO | 1000238-56-7 | 38   |
| 2    |    | Cyclohexane, 1,2-dimethyl-3-pent... | 224 | C16H32    | 062376-17-4  | 25   |
| 3    |    | [1,1'-Bi(phenyl)-4-acetonitrile     | 193 | C14H11N   | 031603-77-7  | 22   |
| 4    |    | (-)-trans-Pinane                    | 138 | C10H18    | 033626-25-4  | 20   |
| 5    |    | Cyclohexane, 1-(cyclohexylmethyl... | 194 | C14H26    | 054824-04-3  | 18   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
Data File : BF083980.D  
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Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleID :  
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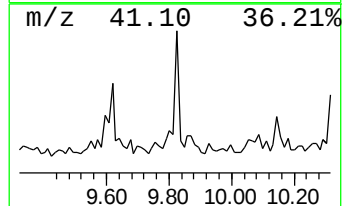
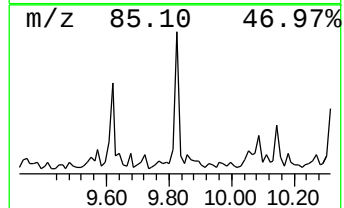
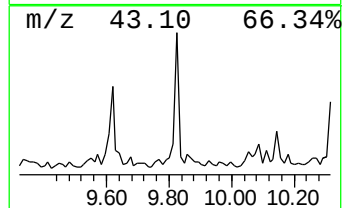
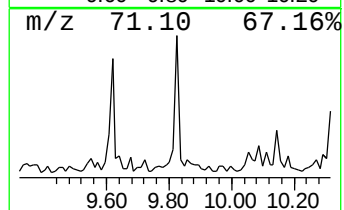
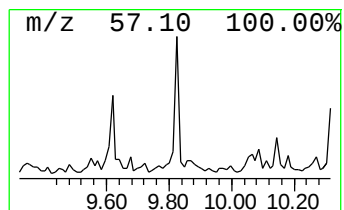
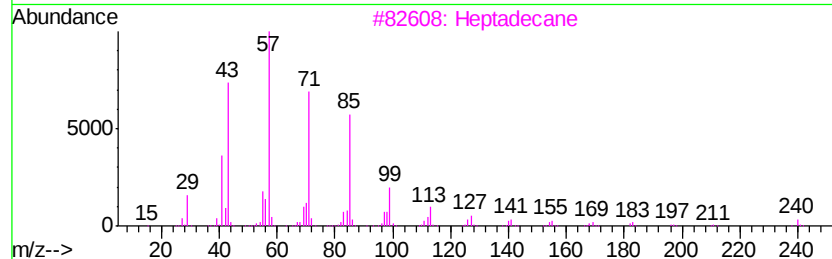
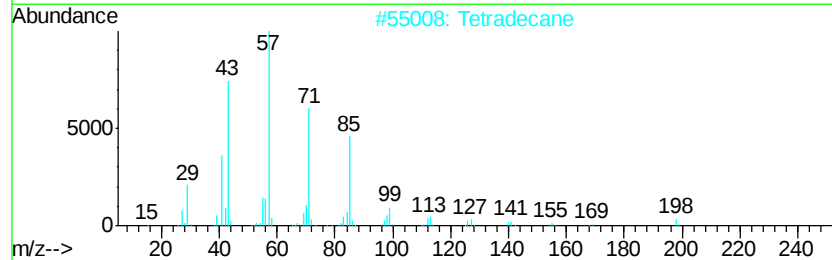
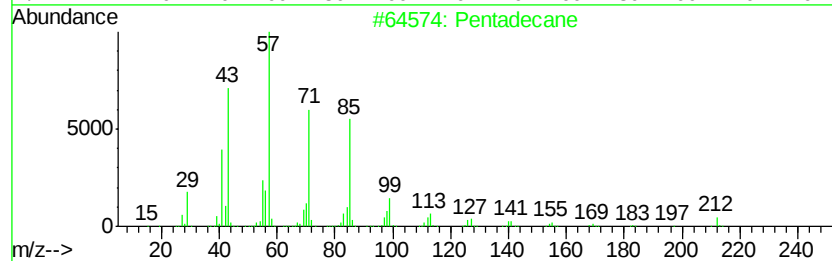
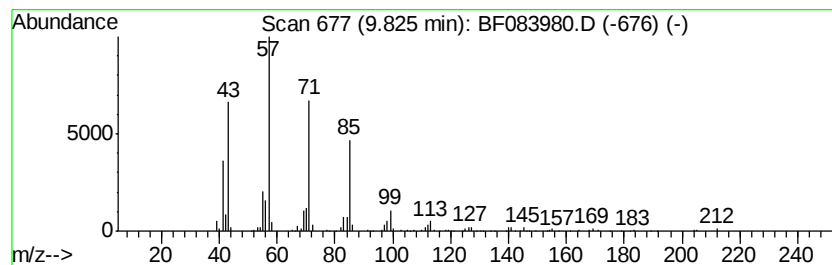
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Pentadecane Concentration Rank 12

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.82 | 9.51 ng | 409122 | Acenaphthene-d10 | 9.88 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Pentadecane              |              | 212 | C15H32  | 000629-62-9 | 90   |
| 2       | Tetradecane              |              | 198 | C14H30  | 000629-59-4 | 90   |
| 3       | Heptadecane              |              | 240 | C17H36  | 000629-78-7 | 90   |
| 4       | Dodecane, 2-methyl-      |              | 184 | C13H28  | 001560-97-0 | 80   |
| 5       | Decane, 2,3,5-trimethyl- |              | 184 | C13H28  | 062238-11-3 | 78   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
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Sample : G4851-01  
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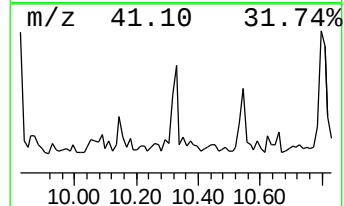
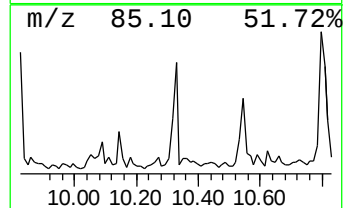
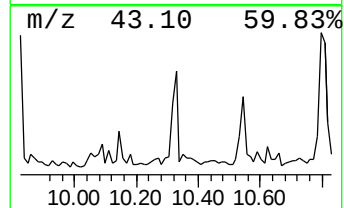
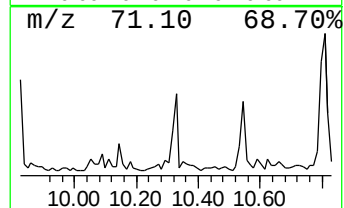
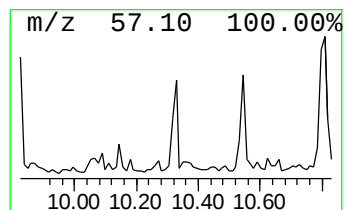
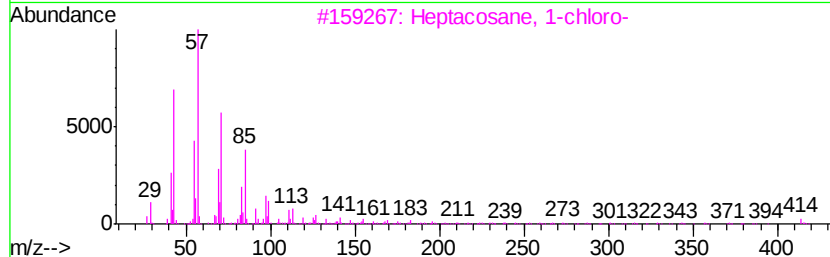
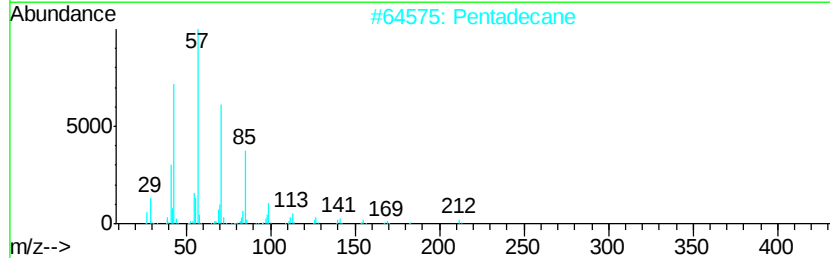
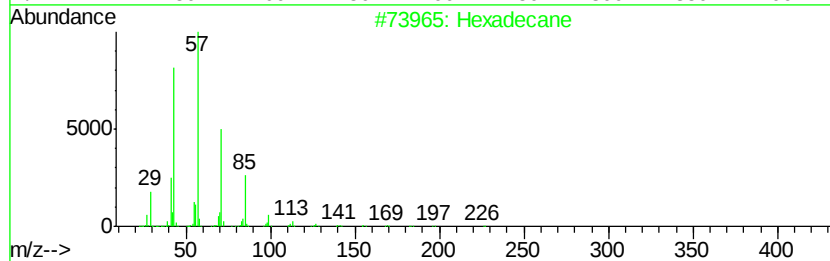
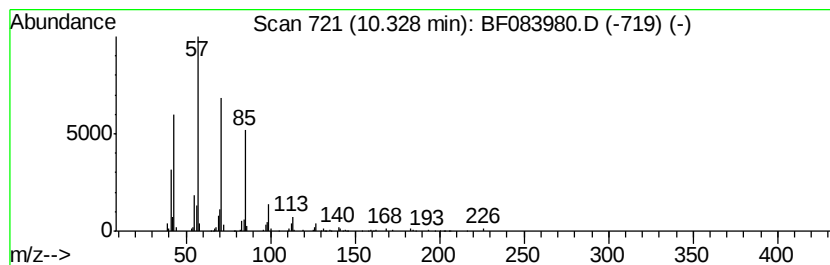
Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Hexadecane Concentration Rank 9

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.      |
|---------|------------------------|--------------|------------------|-----------|
| 10.33   | 10.47 ng               | 450370       | Acenaphthene-d10 | 9.88      |
| Hit# of | 5                      | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Hexadecane             | 226 C16H34   | 000544-76-3      | 95        |
| 2       | Pentadecane            | 212 C15H32   | 000629-62-9      | 90        |
| 3       | Heptacosane, 1-chloro- | 414 C27H55Cl | 062016-79-9      | 78        |
| 4       | Eicosane               | 282 C20H42   | 000112-95-8      | 72        |
| 5       | Undecane, 6-ethyl-     | 184 C13H28   | 017312-60-6      | 70        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

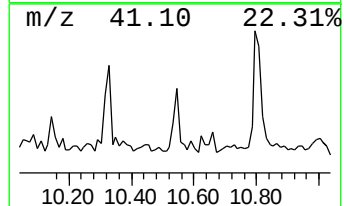
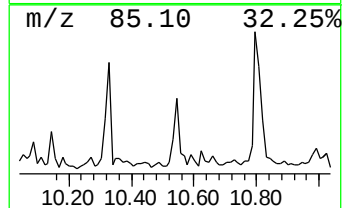
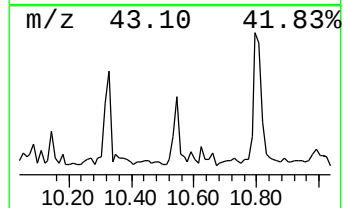
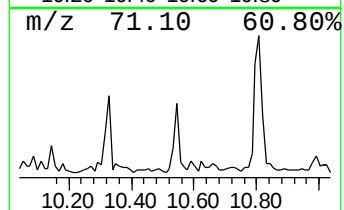
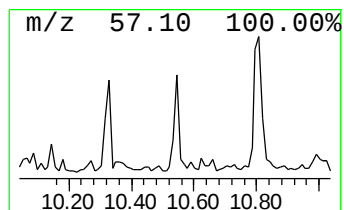
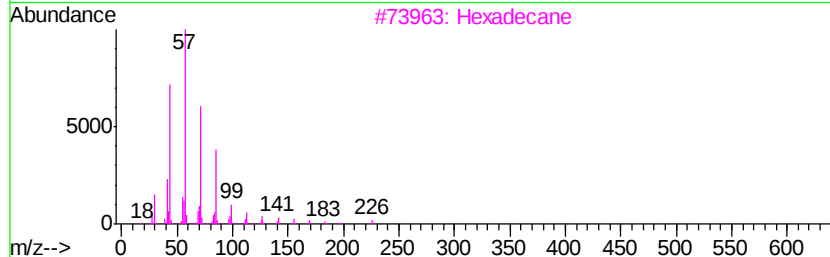
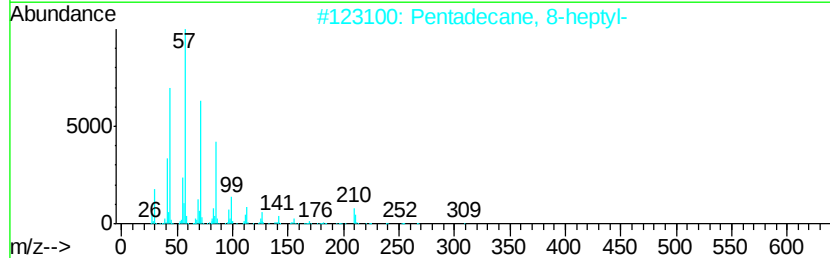
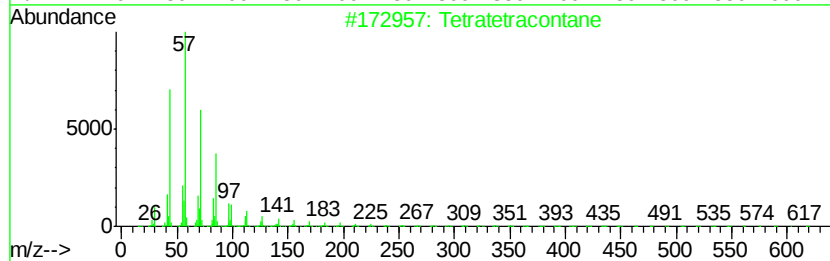
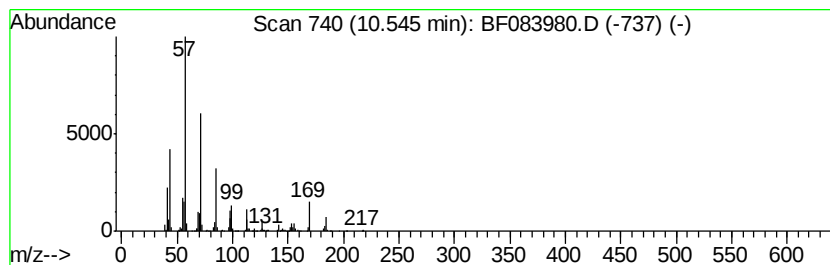
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Tetratetracontane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.54 | 9.82 ng | 422411 | Acenaphthene-d10 | 9.88 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Tetratetracontane      | 619 | C44H90  | 007098-22-8 | 72   |
| 2    |    |   | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 72   |
| 3    |    |   | Hexadecane             | 226 | C16H34  | 000544-76-3 | 72   |
| 4    |    |   | Octadecane             | 254 | C18H38  | 000593-45-3 | 72   |
| 5    |    |   | Eicosane               | 282 | C20H42  | 000112-95-8 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

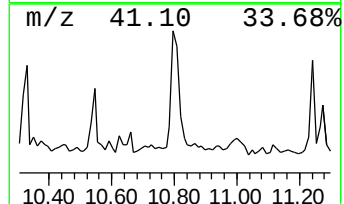
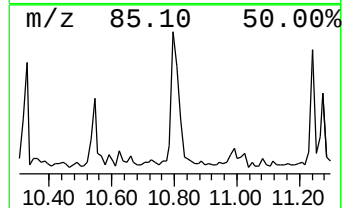
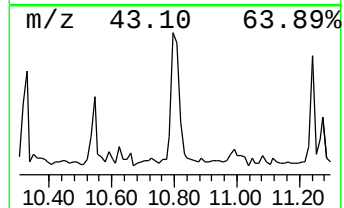
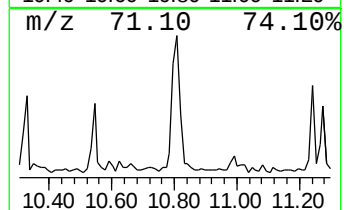
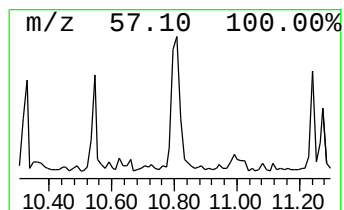
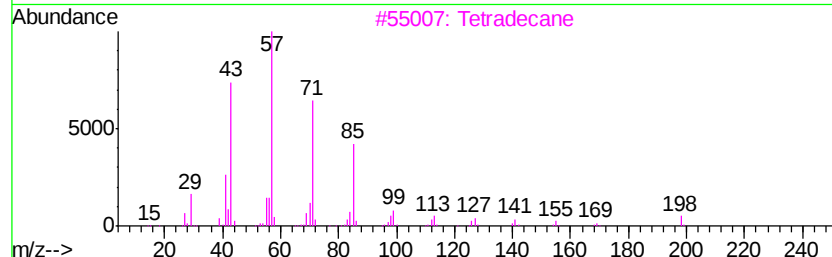
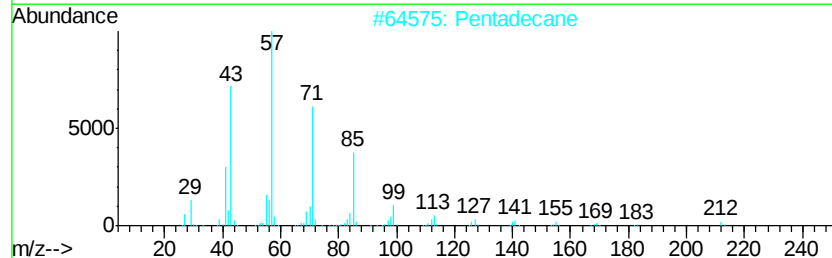
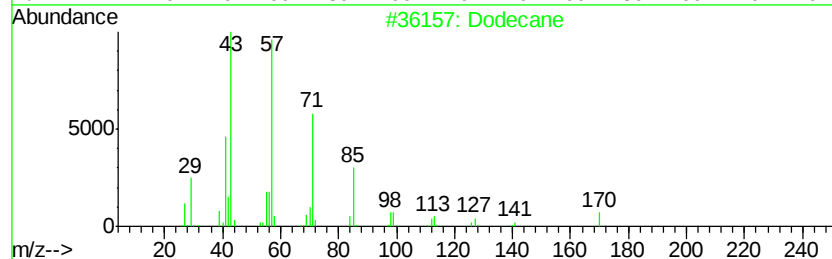
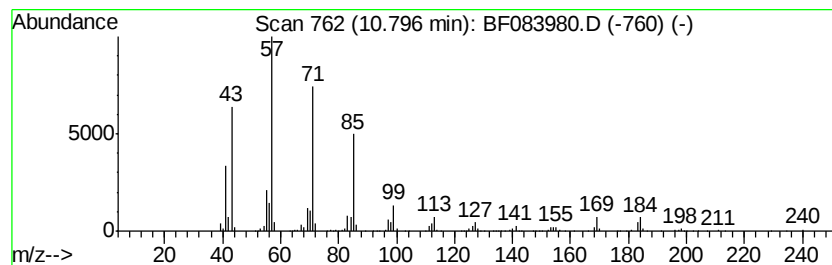
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Dodecane Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 10.80 | 32.43 ng | 1002710 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane          | 170 | C12H26  | 000112-40-3 | 93   |
| 2    |    | Pentadecane       | 212 | C15H32  | 000629-62-9 | 87   |
| 3    |    | Tetradecane       | 198 | C14H30  | 000629-59-4 | 87   |
| 4    |    | Tridecane         | 184 | C13H28  | 000629-50-5 | 87   |
| 5    |    | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

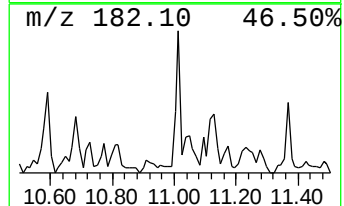
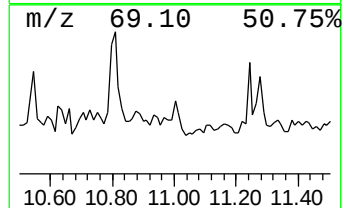
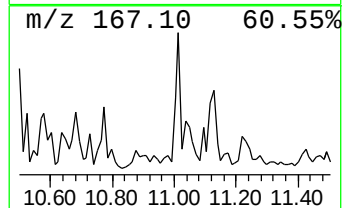
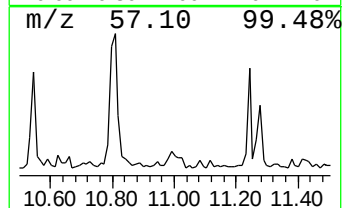
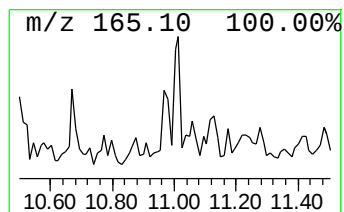
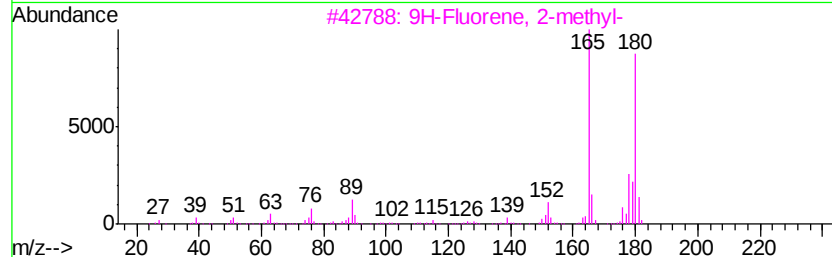
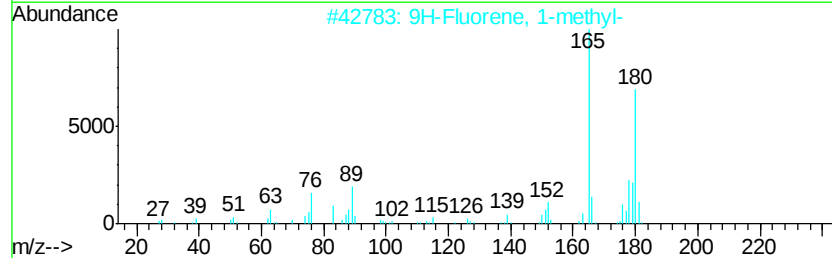
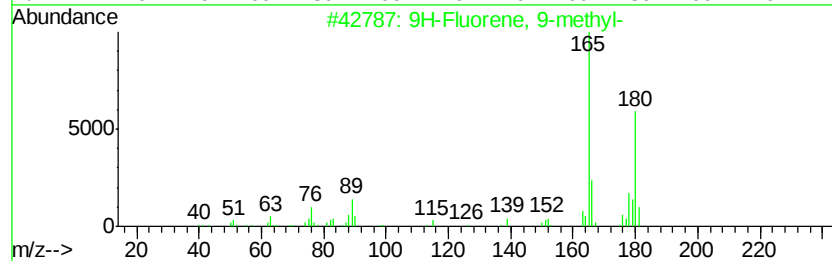
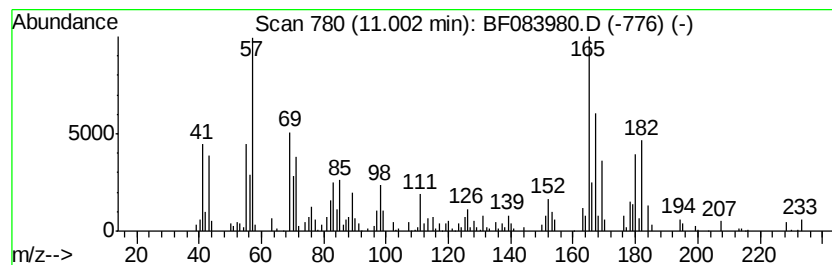
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 9H-Fluorene, 9-methyl- Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.00 | 11.08 ng | 342536 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | 9H-Fluorene, 9-methyl- | 180 | C14H12  | 002523-37-7 | 64   |
| 2    |    | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 62   |
| 3    |    | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 46   |
| 4    |    | 9H-Fluorene, 4-methyl- | 180 | C14H12  | 001556-99-6 | 46   |
| 5    |    | 9H-Fluorene, 3-methyl- | 180 | C14H12  | 002523-39-9 | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

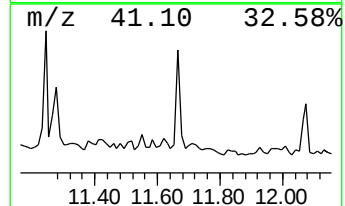
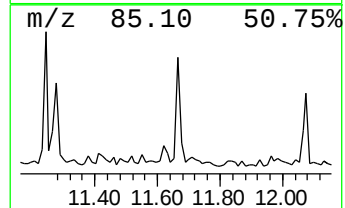
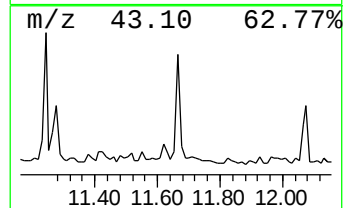
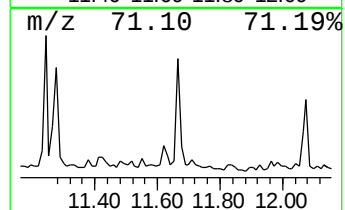
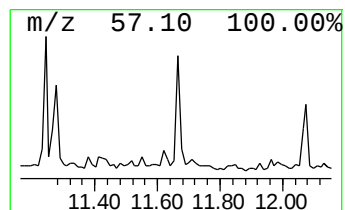
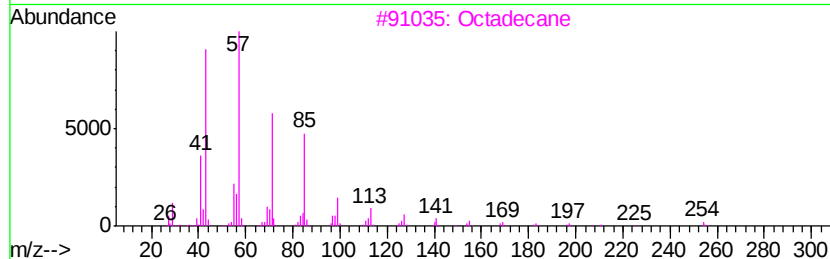
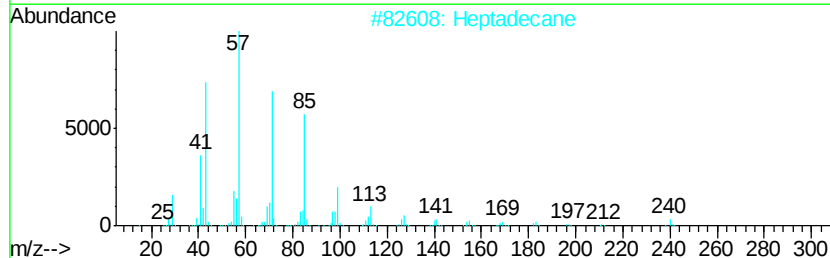
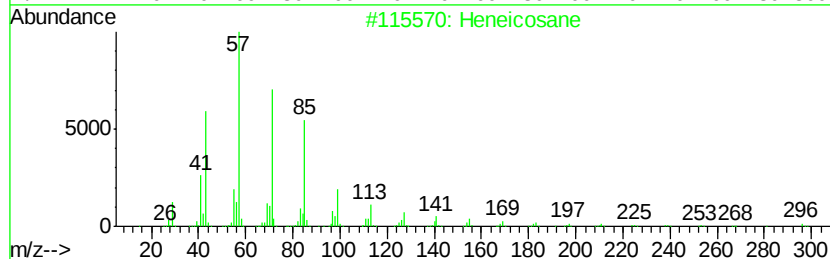
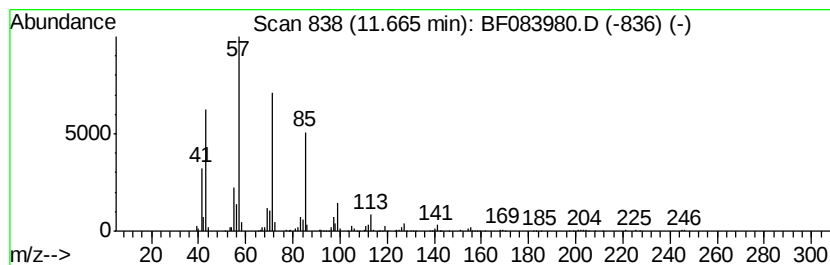
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Heneicosane Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.66 | 10.11 ng | 312760 | Phenanthrene-d10 | 11.37 |

| Hit# | of | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------|-----|----------|-------------|------|
| 1    | 5  | Heneicosane            | 296 | C21H44   | 000629-94-7 | 91   |
| 2    |    | Heptadecane            | 240 | C17H36   | 000629-78-7 | 91   |
| 3    |    | Octadecane             | 254 | C18H38   | 000593-45-3 | 90   |
| 4    |    | Heptadecane, 8-methyl- | 254 | C18H38   | 013287-23-5 | 90   |
| 5    |    | 2-Bromo dodecane       | 248 | C12H25Br | 013187-99-0 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
Data File : BF083980.D  
Acq On : 20 Dec 2015 5:27  
Operator : UM/SJ  
Sample : G4851-01  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
UST-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

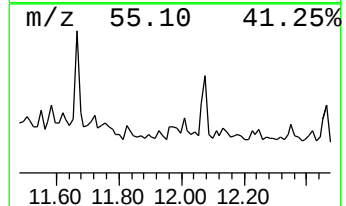
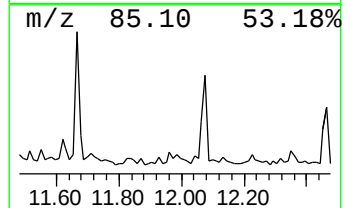
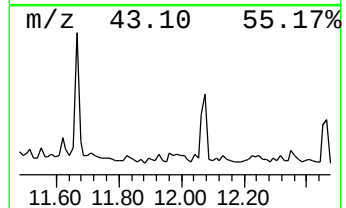
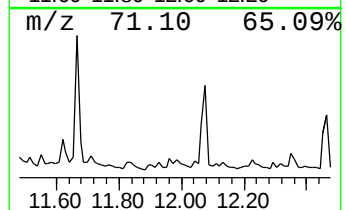
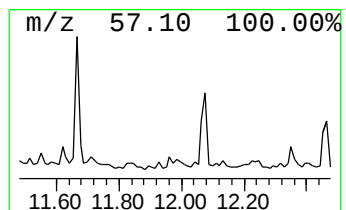
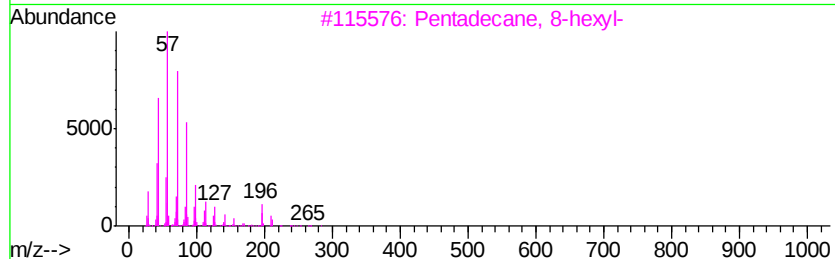
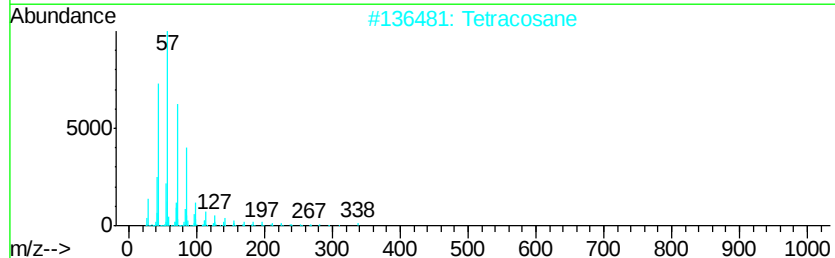
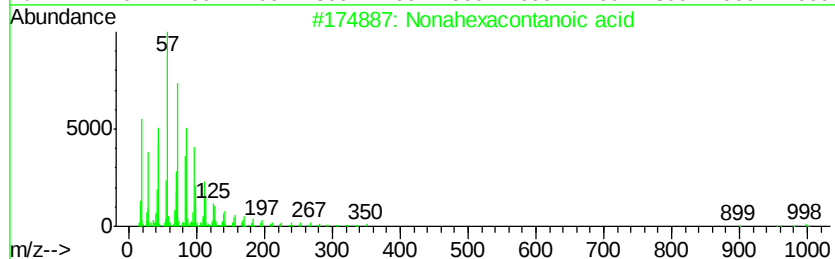
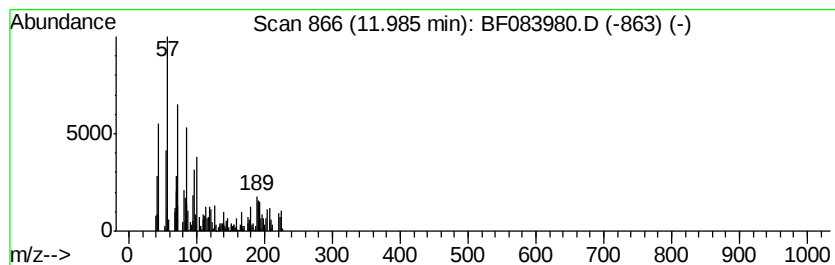
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown11.98 Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.98 | 5.36 ng | 165872 | Phenanthrene-d10 | 11.37 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm   | CAS#        | Qual |
|------|----|---|------------------------|-----|-----------|-------------|------|
| 1    |    |   | Nonahexacontanoic acid | 999 | C69H138O2 | 040710-32-5 | 43   |
| 2    |    |   | Tetracosane            | 338 | C24H50    | 000646-31-1 | 38   |
| 3    |    |   | Pentadecane, 8-hexyl-  | 296 | C21H44    | 013475-75-7 | 38   |
| 4    |    |   | Tetradecane            | 198 | C14H30    | 000629-59-4 | 35   |
| 5    |    |   | Hexane, 3,3-dimethyl-  | 114 | C8H18     | 000563-16-6 | 35   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
 Data File : BF083980.D  
 Acq On : 20 Dec 2015 5:27  
 Operator : UM/SJ  
 Sample : G4851-01  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 UST-6

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.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... | 5.04  | 17.8    | ng    | 388501   | 1                     | 6.85  | 435562 | 20.0 |
| unknown6.62          | 6.62  | 75.1    | ng    | 1635710  | 1                     | 6.85  | 435562 | 20.0 |
| Octane, 2,6-dimet... | 8.57  | 7.5     | ng    | 244903   | 2                     | 8.13  | 652100 | 20.0 |
| Tridecane            | 8.73  | 8.2     | ng    | 268328   | 2                     | 8.13  | 652100 | 20.0 |
| Nonadecane           | 9.30  | 11.7    | ng    | 501837   | 3                     | 9.88  | 859975 | 20.0 |
| Naphthalene, 1,6-... | 9.55  | 5.9     | ng    | 252719   | 3                     | 9.88  | 859975 | 20.0 |
| unknown9.80          | 9.80  | 5.2     | ng    | 224227   | 3                     | 9.88  | 859975 | 20.0 |
| Pentadecane          | 9.82  | 9.5     | ng    | 409122   | 3                     | 9.88  | 859975 | 20.0 |
| Hexadecane           | 10.33 | 10.5    | ng    | 450370   | 3                     | 9.88  | 859975 | 20.0 |
| Tetratetracontane    | 10.54 | 9.8     | ng    | 422411   | 3                     | 9.88  | 859975 | 20.0 |
| Dodecane             | 10.80 | 32.4    | ng    | 1002710  | 4                     | 11.37 | 618423 | 20.0 |
| 9H-Fluorene, 9-me... | 11.00 | 11.1    | ng    | 342536   | 4                     | 11.37 | 618423 | 20.0 |
| Heneicosane          | 11.66 | 10.1    | ng    | 312760   | 4                     | 11.37 | 618423 | 20.0 |
| unknown11.98         | 11.98 | 5.4     | ng    | 165872   | 4                     | 11.37 | 618423 | 20.0 |