LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

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-BF112115.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 | 4.787 | 243 | 245 | 252 | rBV | 585916 | 985577 | 15.39% | 1.275% |
| 2 | 5.244 | 283 | 285 | 296 | rBV | 1816329 | 2984667 | 46.62% | 3.862% |
| 3 | 5.964 | 345 | 348 | 351 | rBV2 | 90453 | 147659 | 2.31% | 0.191% |
| 4 | 6.307 | 376 | 378 | 384 | rBV | 1426026 | 2032989 | 31.75% | 2.631% |
| 5 | 6.421 | 386 | 388 | 391 | rVV | 5193928 | 5106284 | 79.75% | 6.607% |
| 6 | 6.513 | 395 | 396 | 400 | rVB | 154795 | 149406 | 2.33% | 0.193% |
| 7 | 6.650 | 406 | 408 | 410 | rBV | 1267404 | 1323465 | 20.67% | 1.712% |
| 8 | 6.730 | 413 | 415 | 417 | rVV2 | 198235 | 306006 | 4.78% | 0.396% |
| 9 | 6.776 | 417 | 419 | 420 | rVV | 80069 | 136830 | 2.14% | 0.177% |
| 10 | 6.810 | 420 | 422 | 424 | rVB | 3907570 | 4663743 | 72.84% | 6.034% |
| 11 | 7.004 | 436 | 439 | 441 | rVB2 | 55516 | 76034 | 1.19% | 0.098% |
| 12 | 7.073 | 441 | 445 | 447 | rBV4 | 83398 | 188515 | 2.94% | 0.244% |
| 13 | 7.142 | 447 | 451 | 453 | rVB2 | 157762 | 246885 | 3.86% | 0.319% |
| 14 | 7.222 | 455 | 458 | 460 | rVV | 3939412 | 4007131 | 62.58% | 5.185% |
| 15 | 7.336 | 467 | 468 | 471 | rVB3 | 62416 | 80463 | 1.26% | 0.104% |
| 16 | 7.439 | 471 | 477 | 480 | rVV | 264376 | 569637 | 8.90% | 0.737% |
| 17 | 7.507 | 480 | 483 | 484 | rVV | 193152 | 313471 | 4.90% | 0.406% |
| 18 | 7.530 | 484 | 485 | 487 | rVV | 198250 | 169796 | 2.65% | 0.220% |
| 19 | 7.564 | 487 | 488 | 490 | rVB2 | 78734 | 79566 | 1.24% | 0.103% |
| 20 | 7.679 | 496 | 498 | 500 | rBV | 140046 | 188497 | 2.94% | 0.244% |
| 21 | 7.942 | 518 | 521 | 523 | rBV | 1103529 | 1575791 | 24.61% | 2.039% |
| 22 | 8.090 | 532 | 534 | 536 | rBV | 142285 | 142408 | 2.22% | 0.184% |
| 23 | 8.182 | 539 | 542 | 543 | rBV | 3301139 | 3422450 | 53.45% | 4.428% |
| 24 | 8.204 | 543 | 544 | 549 | rVV | 2692037 | 3607420 | 56.34% | 4.668% |
| 25 | 8.296 | 549 | 552 | 553 | rVV | 179868 | 185205 | 2.89% | 0.240% |
| 26 | 8.319 | 553 | 554 | 557 | rVB | 141439 | 179136 | 2.80% | 0.232% |
| 27 | 8.410 | 558 | 562 | 564 | rVV5 | 45803 | 141080 | 2.20% | 0.183% |
| 28 | 8.467 | 566 | 567 | 569 | rVB | 105072 | 101323 | 1.58% | 0.131% |
| 29 | 8.536 | 571 | 573 | 574 | rBV | 96222 | 118302 | 1.85% | 0.153% |
| 30 | 8.582 | 574 | 577 | 580 | rVB3 | 134249 | 231925 | 3.62% | 0.300% |
| 31 | 8.650 | 580 | 583 | 584 | rBV3 | 75553 | 102859 | 1.61% | 0.133% |
| 32 | 8.753 | 588 | 592 | 594 | rBV5 | 59628 | 119127 | 1.86% | 0.154% |
| 33 | 8.902 | 602 | 605 | 607 | rBV2 | 94707 | 141852 | 2.22% | 0.184% |
| 34 | 8.947 | 607 | 609 | 610 | rBV2 | 98941 | 141522 | 2.21% | 0.183% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

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-BF112115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.016 | 612 | 615 | 618 | rVB | 5685377 | 6402747 | 100.00% | 8.285% |
| 36 | 9.130 | 624 | 625 | 627 | rBV2 | 151256 | 169710 | 2.65% | 0.220% |
| 37 | 9.370 | 641 | 646 | 649 | rBV6 | 97098 | 287138 | 4.48% | 0.372% |
| 38 | 9.416 | 649 | 650 | 652 | rVB | 142414 | 126093 | 1.97% | 0.163% |
| 39 | 9.462 | 652 | 654 | 655 | rBV2 | 92638 | 88220 | 1.38% | 0.114% |
| 40 | 9.542 | 660 | 661 | 664 | rVB | 102363 | 117167 | 1.83% | 0.152% |
| 41 | 9.633 | 664 | 669 | 671 | rBV3 | 161832 | 290369 | 4.54% | 0.376% |
| 42 | 9.690 | 671 | 674 | 676 | rBV | 1236152 | 1844805 | 28.81% | 2.387% |
| 43 | 9.770 | 679 | 681 | 682 | rBV2 | 65414 | 121336 | 1.90% | 0.157% |
| 44 | 9.873 | 688 | 690 | 693 | rBV2 | 180078 | 253214 | 3.95% | 0.328% |
| 45 | 9.930 | 693 | 695 | 696 | rBV | 114986 | 120779 | 1.89% | 0.156% |
| 46 | 9.988 | 699 | 700 | 703 | rVB3 | 94548 | 101669 | 1.59% | 0.132% |
| 47 | 10.045 | 703 | 705 | 708 | rBV3 | 93975 | 133889 | 2.09% | 0.173% |
| 48 | 10.102 | 708 | 710 | 711 | rBV | 129324 | 182372 | 2.85% | 0.236% |
| 49 | 10.136 | 711 | 713 | 715 | rVB | 178938 | 180535 | 2.82% | 0.234% |
| 50 | 10.193 | 715 | 718 | 719 | rBV2 | 59812 | 92036 | 1.44% | 0.119% |
| 51 | 10.308 | 726 | 728 | 730 | rBV2 | 237224 | 338468 | 5.29% | 0.438% |
| 52 | 10.433 | 737 | 739 | 740 | rBV2 | 108619 | 165542 | 2.59% | 0.214% |
| 53 | 10.479 | 740 | 743 | 745 | rVV2 | 2766853 | 4094805 | 63.95% | 5.298% |
| 54 | 10.513 | 745 | 746 | 749 | rVB3 | 65051 | 92619 | 1.45% | 0.120% |
| 55 | 10.616 | 753 | 755 | 758 | rVV2 | 497953 | 722701 | 11.29% | 0.935% |
| 56 | 10.673 | 758 | 760 | 761 | rVV | 924421 | 1019803 | 15.93% | 1.320% |
| 57 | 10.708 | 761 | 763 | 764 | rVV | 1029952 | 1260709 | 19.69% | 1.631% |
| 58 | 10.742 | 764 | 766 | 769 | rVV2 | 738229 | 1587894 | 24.80% | 2.055% |
| 59 | 10.799 | 769 | 771 | 774 | rVV2 | 467602 | 1104414 | 17.25% | 1.429% |
| 60 | 10.845 | 774 | 775 | 777 | rVV2 | 1134514 | 1206376 | 18.84% | 1.561% |
| 61 | 10.890 | 777 | 779 | 781 | rVV | 828591 | 1328931 | 20.76% | 1.720% |
| 62 | 10.925 | 781 | 782 | 784 | rVB | 690879 | 562971 | 8.79% | 0.728% |
| 63 | 11.039 | 790 | 792 | 793 | rBV | 154841 | 218960 | 3.42% | 0.283% |
| 64 | 11.073 | 793 | 795 | 797 | rVV | 867074 | 777923 | 12.15% | 1.007% |
| 65 | 11.165 | 801 | 803 | 805 | rBV | 1538471 | 1628298 | 25.43% | 2.107% |
| 66 | 11.211 | 805 | 807 | 810 | rVB | 221879 | 317590 | 4.96% | 0.411% |
| 67 | 11.382 | 820 | 822 | 824 | rBV | 640063 | 687493 | 10.74% | 0.890% |
| 68 | 11.473 | 829 | 830 | 834 | rVB | 206253 | 218846 | 3.42% | 0.283% |
| 69 | 11.565 | 836 | 838 | 839 | rBV | 268411 | 216609 | 3.38% | 0.280% |
| 70 | 11.668 | 845 | 847 | 849 | rVB | 269529 | 310140 | 4.84% | 0.401% |
| 71 | 11.713 | 849 | 851 | 855 | rBV2 | 667063 | 850269 | 13.28% | 1.100% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

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-BF112115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.782 | 855 | 857 | 859 | rVB | 144539 | 157594 | 2.46% | 0.204% |
| 73 | 11.839 | 860 | 862 | 866 | rBV2 | 206787 | 284838 | 4.45% | 0.369% |
| 74 | 11.919 | 866 | 869 | 872 | rBV4 | 89752 | 241903 | 3.78% | 0.313% |
| 75 | 11.965 | 872 | 873 | 878 | rVB4 | 106022 | 162332 | 2.54% | 0.210% |
| 76 | 12.148 | 887 | 889 | 891 | rBV | 89613 | 106983 | 1.67% | 0.138% |
| 77 | 12.193 | 891 | 893 | 900 | rVB4 | 139223 | 395826 | 6.18% | 0.512% |
| 78 | 12.399 | 909 | 911 | 915 | rBV3 | 107274 | 280551 | 4.38% | 0.363% |
| 79 | 12.502 | 918 | 920 | 921 | rVV | 439592 | 521471 | 8.14% | 0.675% |
| 80 | 12.536 | 921 | 923 | 926 | rVV | 757621 | 881291 | 13.76% | 1.140% |
| 81 | 12.582 | 926 | 927 | 931 | rVV | 220675 | 243541 | 3.80% | 0.315% |
| 82 | 12.742 | 939 | 941 | 944 | rBV | 3392285 | 4304850 | 67.23% | 5.570% |
| 83 | 12.799 | 944 | 946 | 949 | rVB2 | 92019 | 118807 | 1.86% | 0.154% |
| 84 | 12.891 | 952 | 954 | 956 | rBV3 | 75305 | 98051 | 1.53% | 0.127% |
| 85 | 12.994 | 960 | 963 | 969 | rVB5 | 112681 | 291558 | 4.55% | 0.377% |
| 86 | 13.165 | 976 | 978 | 980 | rVB | 100673 | 104245 | 1.63% | 0.135% |
| 87 | 13.291 | 987 | 989 | 990 | rVB | 160861 | 154436 | 2.41% | 0.200% |
| 88 | 13.359 | 991 | 995 | 997 | rVV3 | 93075 | 172174 | 2.69% | 0.223% |
| 89 | 13.416 | 998 | 1000 | 1002 | rVV2 | 202695 | 365420 | 5.71% | 0.473% |
| 90 | 13.462 | 1002 | 1004 | 1007 | rVV3 | 196991 | 505047 | 7.89% | 0.653% |
| 91 | 13.542 | 1008 | 1011 | 1013 | rVV | 445261 | 830318 | 12.97% | 1.074% |
| 92 | 13.588 | 1013 | 1015 | 1017 | rVV3 | 184834 | 405909 | 6.34% | 0.525% |
| 93 | 13.656 | 1020 | 1021 | 1025 | rVB | 213869 | 221378 | 3.46% | 0.286% |
| 94 | 13.782 | 1030 | 1032 | 1035 | rVB | 1235454 | 1333757 | 20.83% | 1.726% |
| 95 | 13.976 | 1047 | 1049 | 1057 | rVB | 88230 | 169813 | 2.65% | 0.220% |
| 96 | 14.422 | 1085 | 1088 | 1090 | rBV | 152169 | 213265 | 3.33% | 0.276% |
| 97 | 15.097 | 1144 | 1147 | 1149 | rBV | 163141 | 191163 | 2.99% | 0.247% |
| 98 | 15.154 | 1149 | 1152 | 1155 | rBV | 911583 | 1106480 | 17.28% | 1.432% |
| 99 | 15.302 | 1163 | 1165 | 1175 | rVB | 57496 | 134853 | 2.11% | 0.174% |
| 100 | 16.000 | 1224 | 1226 | 1234 | rVB5 | 34949 | 96720 | 1.51% | 0.125% |

Sum of corrected areas: 77285035

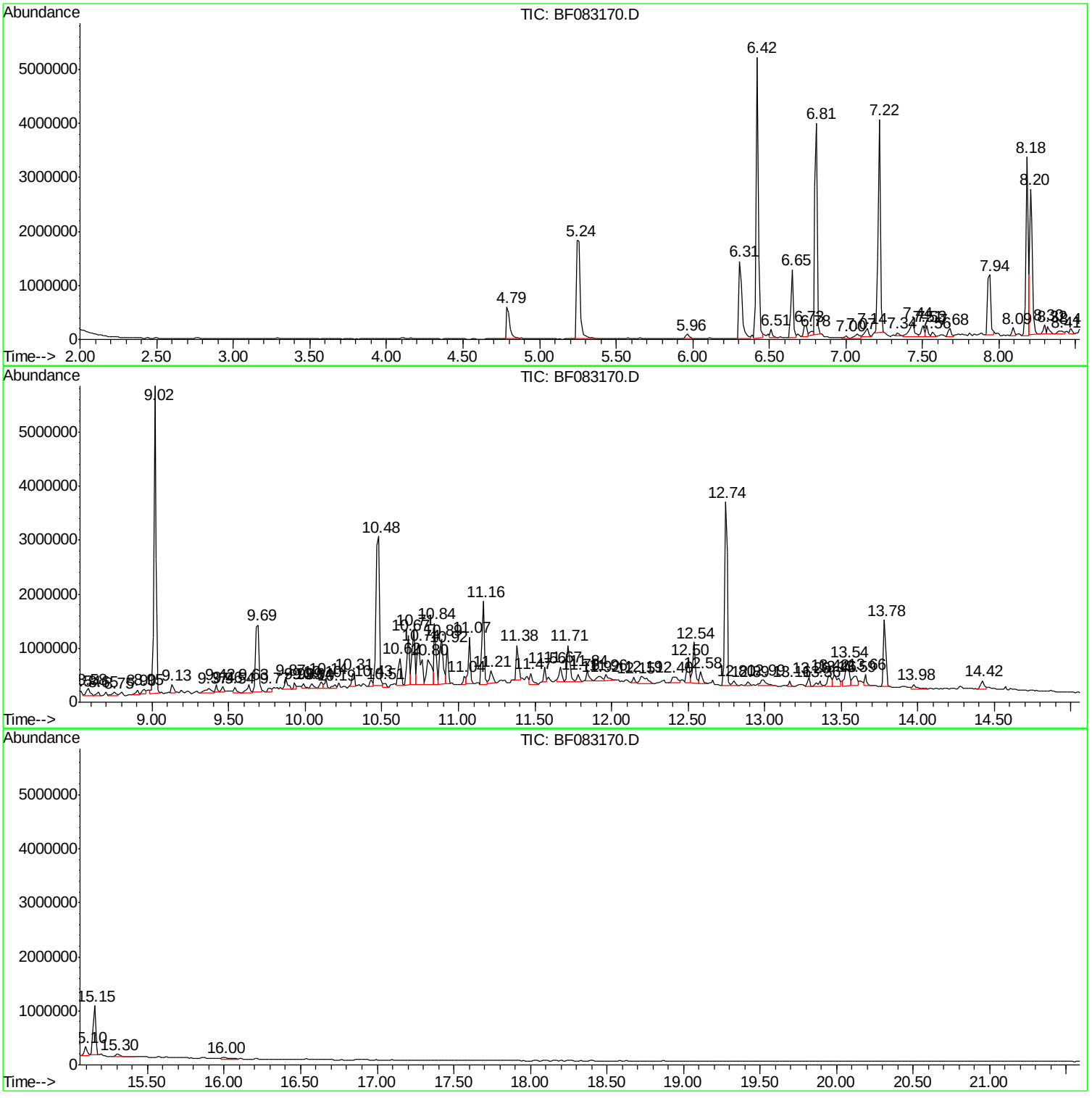
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

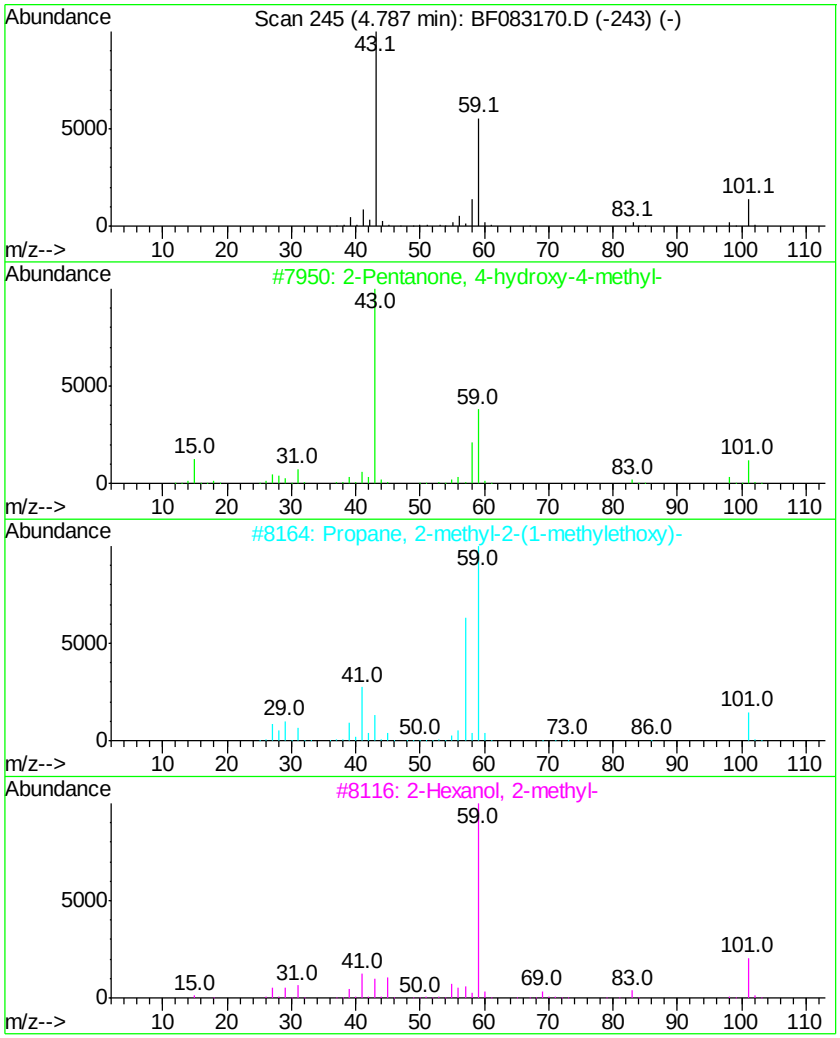
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

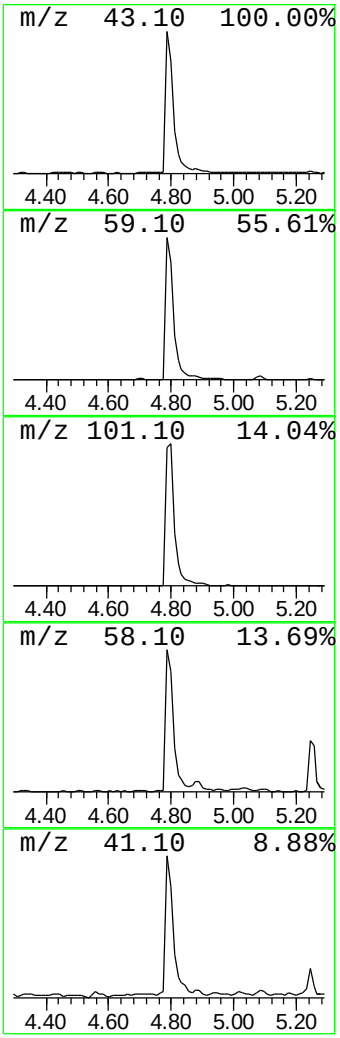
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.79 | 14.89 ng | 985577 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 42 |
| 3 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 33 |
| 4 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 5 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

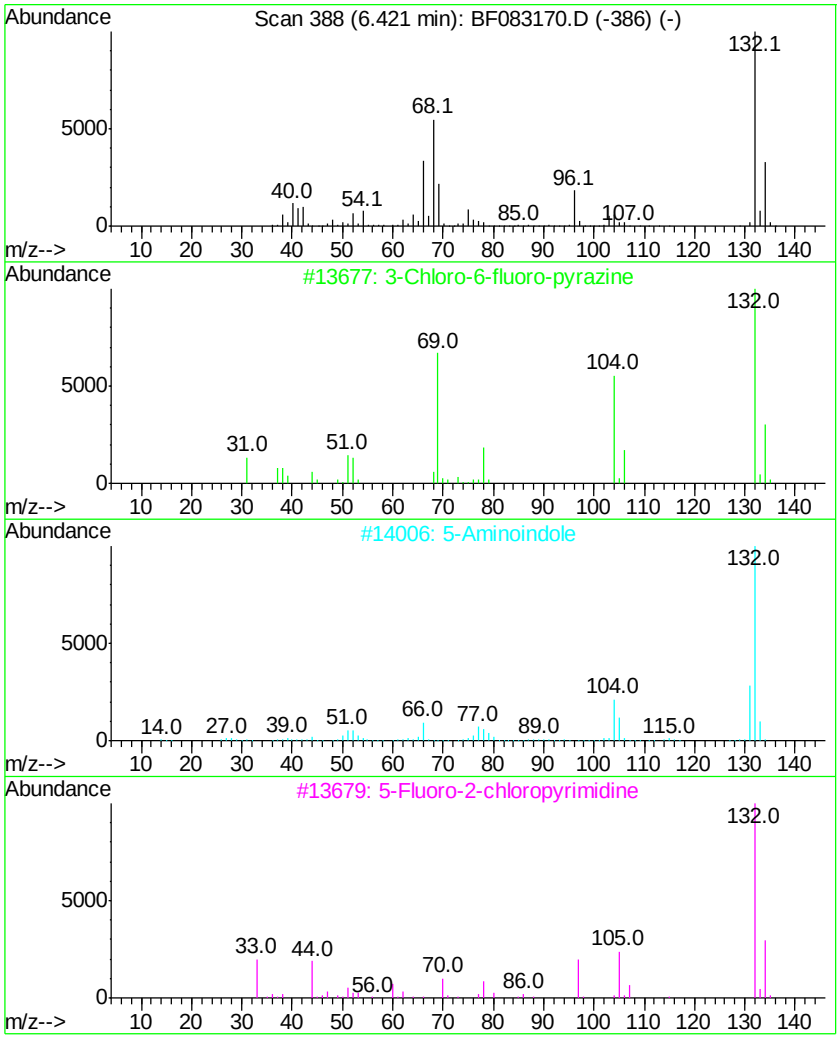
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

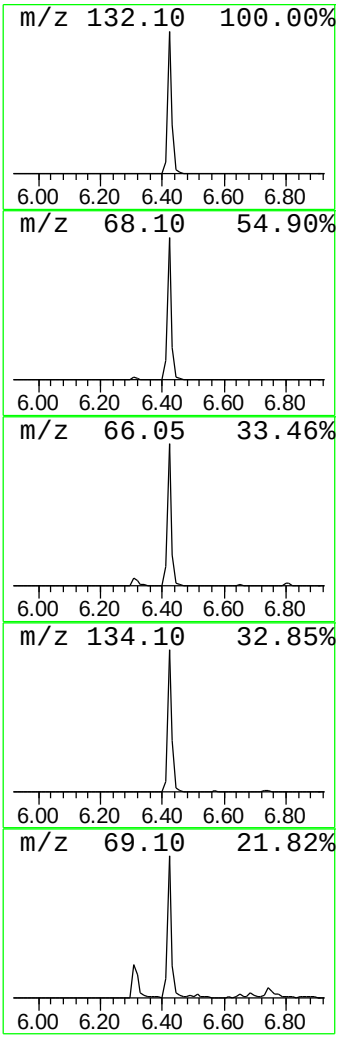
**********

Peak Number 2 unknown6.42 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.42 | 77.17 ng | 5106280 | 1,4-Dichlorobenzene-d4 | 6.65 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 22 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 12 |
| 4 | 2-Cyclohexen-1-one | 96 | C6H8O | 000930-68-7 | 10 |
| 5 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

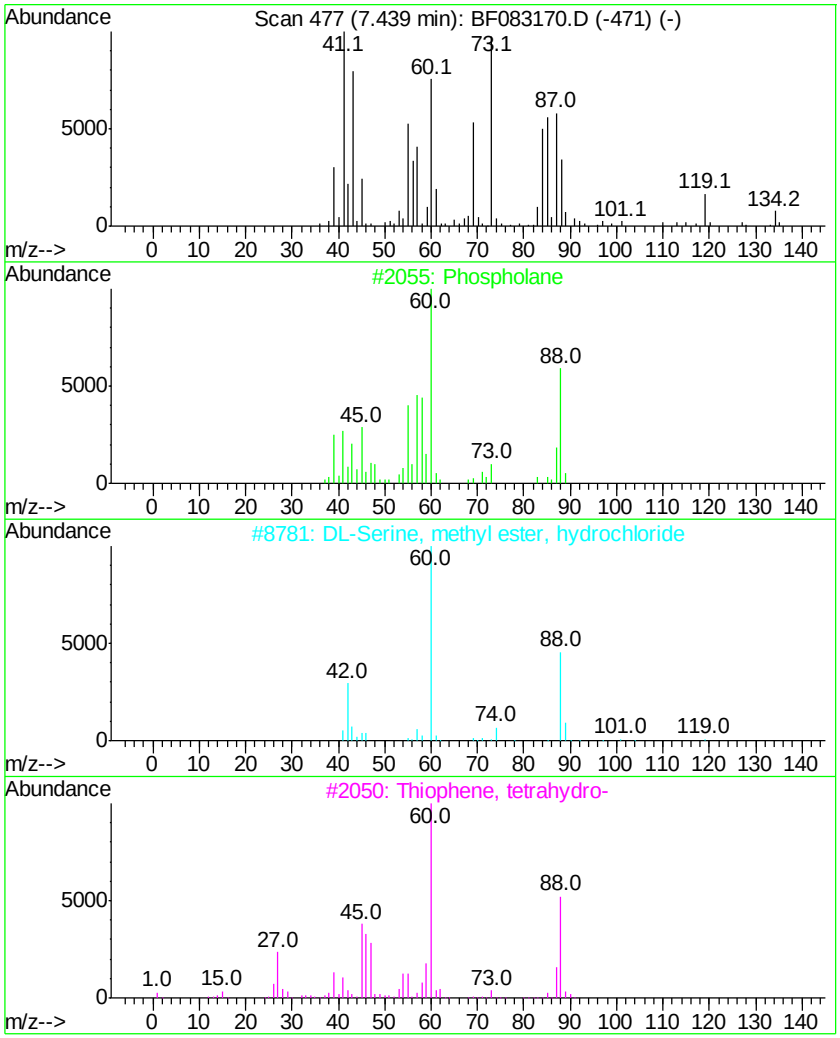
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

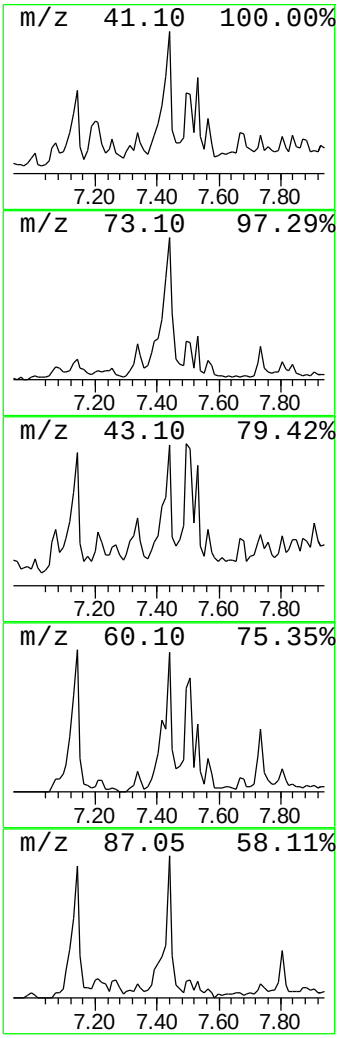
**********

Peak Number 4 unknown7.44 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.44 | 7.23 ng | 569637 | Naphthalene-d8 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phospholane | 88 | C4H9P | 003466-00-0 | 35 |
| 2 | DL-Serine, methyl ester, hydroch... | 119 | C4H9NO3 | 005619-04-5 | 22 |
| 3 | Thiophene, tetrahydro- | 88 | C4H8S | 000110-01-0 | 16 |
| 4 | Heptane, 2,3-dimethyl- | 128 | C9H20 | 003074-71-3 | 14 |
| 5 | Pentanoic acid, propyl ester | 144 | C8H16O2 | 000141-06-0 | 12 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

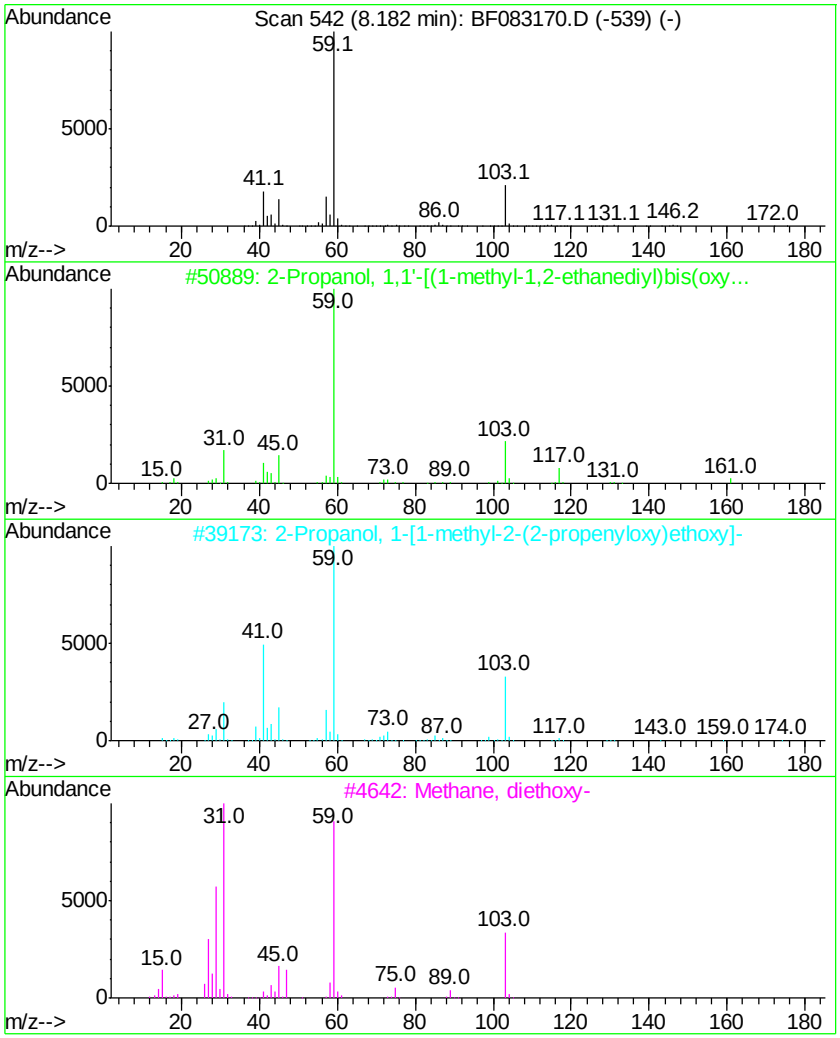
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

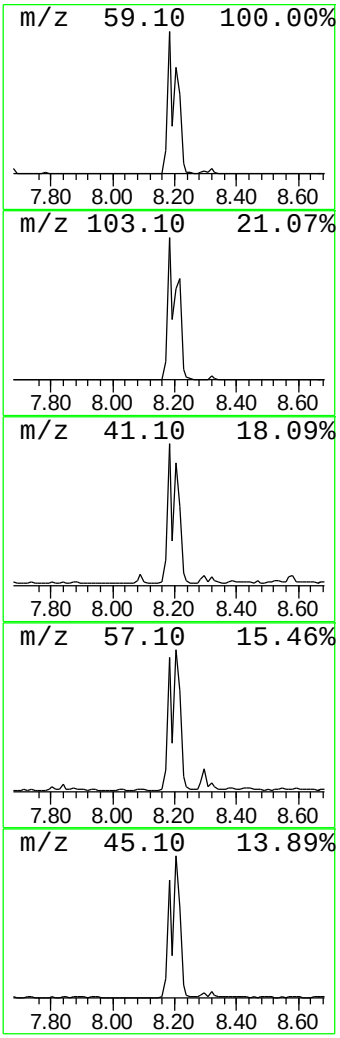
**********

Peak Number 5 2-Propanol, 1,1'-[(1-methyl... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.18 | 43.44 ng | 3422450 | Naphthalene-d8 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propanol, 1,1'-[(1-methyl-1,2-... | 192 | C9H20O4 | 001638-16-0 | 78 |
| 2 | 2-Propanol, 1-[1-methyl-2-(2-pro... | 174 | C9H18O3 | 055956-25-7 | 74 |
| 3 | Methane, diethoxy- | 104 | C5H12O2 | 000462-95-3 | 72 |
| 4 | 1-Propanol, 2-(2-hydroxypropoxy)- | 134 | C6H14O3 | 000106-62-7 | 64 |
| 5 | 1-Propanol, 2,2'-oxybis- | 134 | C6H14O3 | 000108-61-2 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

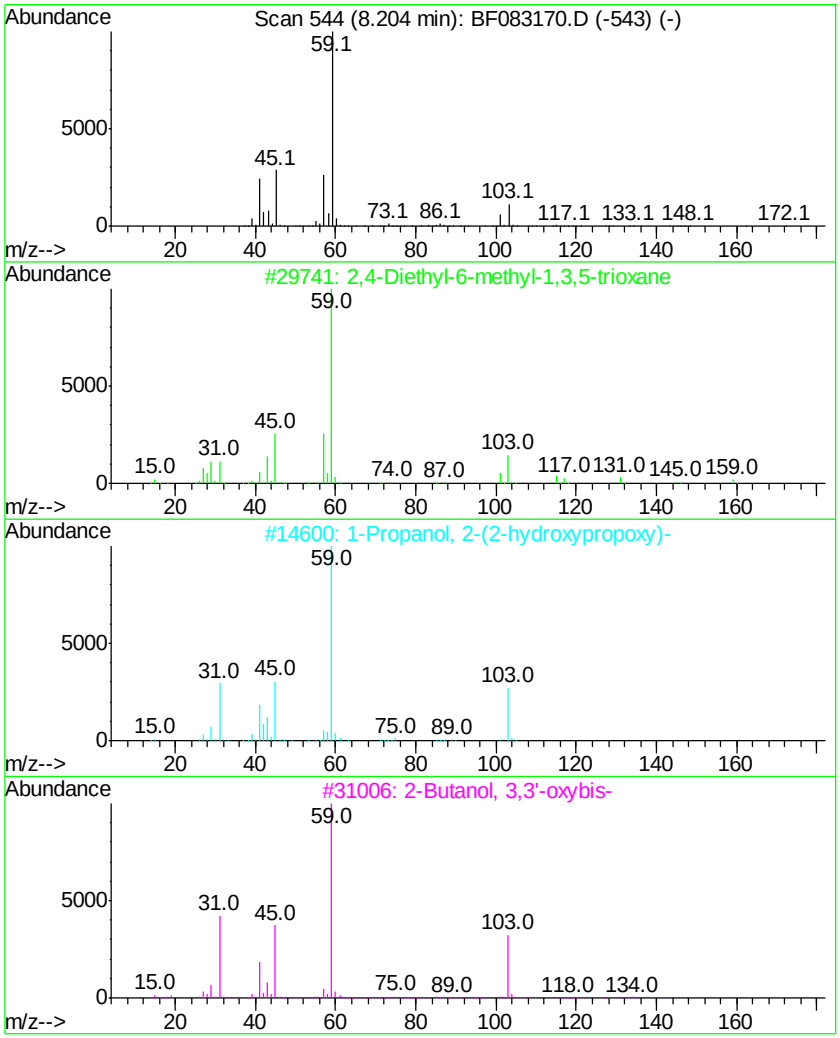
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

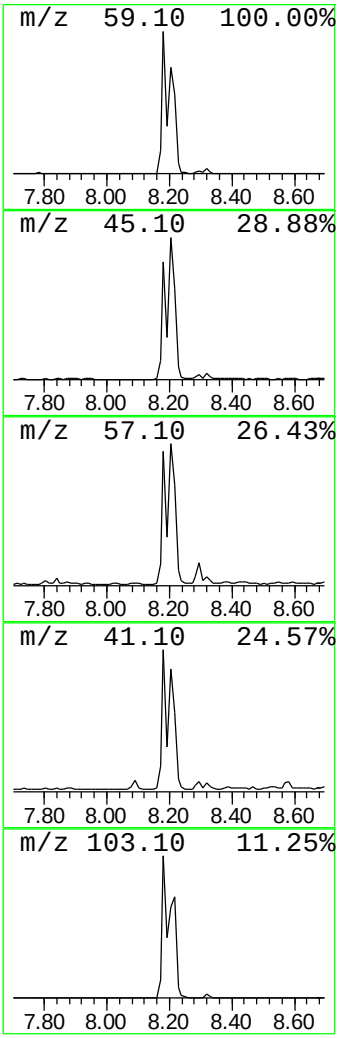
**********

Peak Number 6 2,4-Diethyl-6-methyl-1,3,5-... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.20 | 45.79 ng | 3607420 | Naphthalene-d8 | 7.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Diethyl-6-methyl-1,3,5-trioxane | 160 | C8H16O3 | 117888-04-7 | 83 |
| 2 | 1-Propanol, 2-(2-hydroxypropoxy)- | 134 | C6H14O3 | 000106-62-7 | 78 |
| 3 | 2-Butanol, 3,3'-oxybis- | 162 | C8H18O3 | 054305-61-2 | 78 |
| 4 | 1-Propanol, 2,2'-oxybis- | 134 | C6H14O3 | 000108-61-2 | 78 |
| 5 | Dipropylene glycol monomethyl ether | 148 | C7H16O3 | 034590-94-8 | 78 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

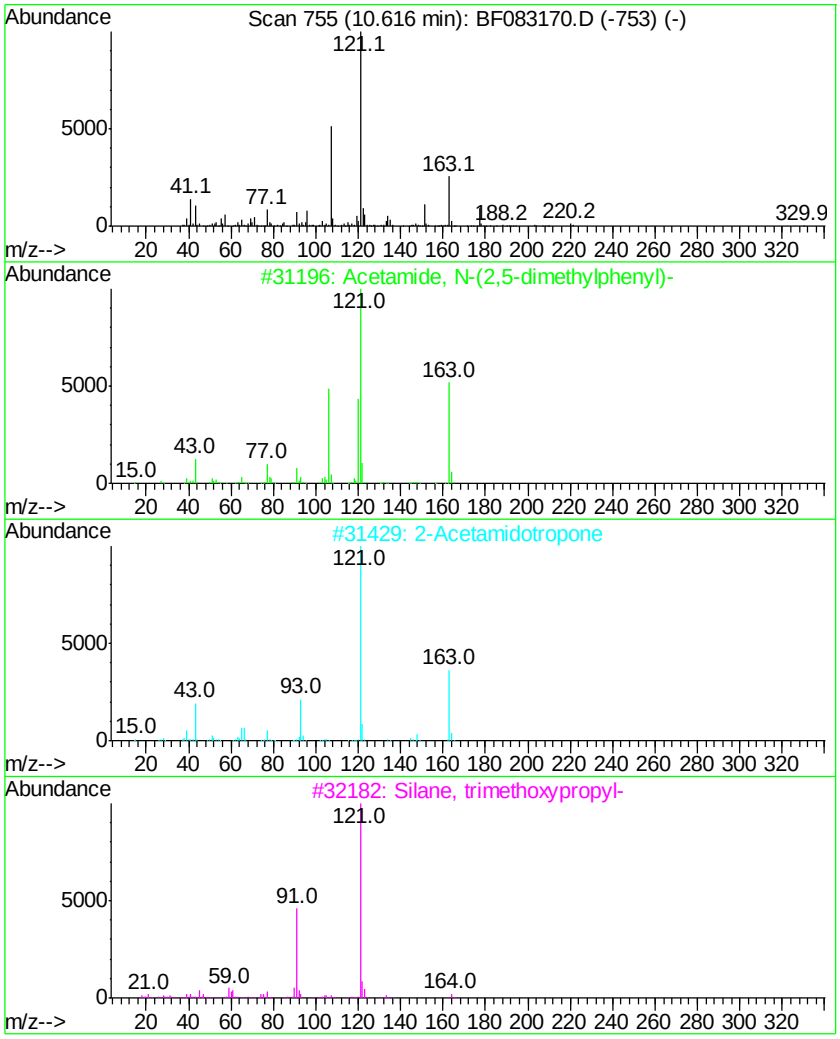
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

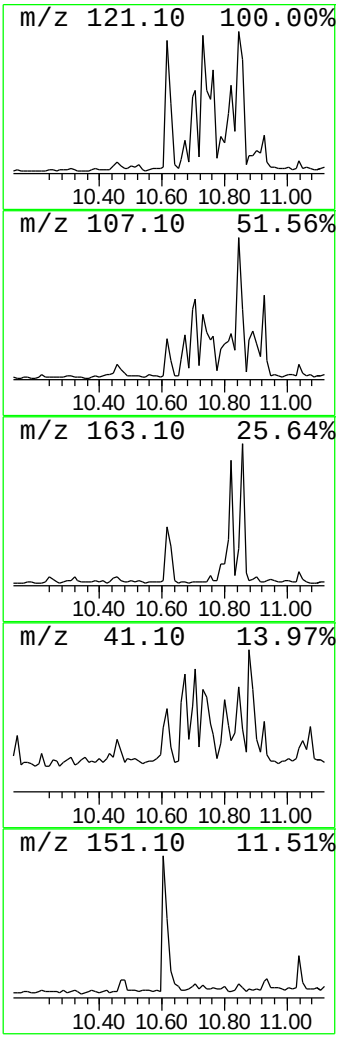
**********

Peak Number 7 unknown10.62 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.62 | 8.88 ng | 722701 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-(2,5-dimethylphenyl)- | 163 | C10H13NO | 002050-44-4 | 49 |
| 2 | 2-Acetamidotropone | 163 | C9H9NO2 | 006422-12-4 | 43 |
| 3 | Silane, trimethoxypropyl- | 164 | C6H16O3Si | 001067-25-0 | 38 |
| 4 | p-Sec-butylphenyl acetate | 192 | C12H16O2 | 003245-24-7 | 38 |
| 5 | 2-Propanone, 1-(4-methoxyphenyl)- | 164 | C10H12O2 | 000122-84-9 | 38 |



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Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

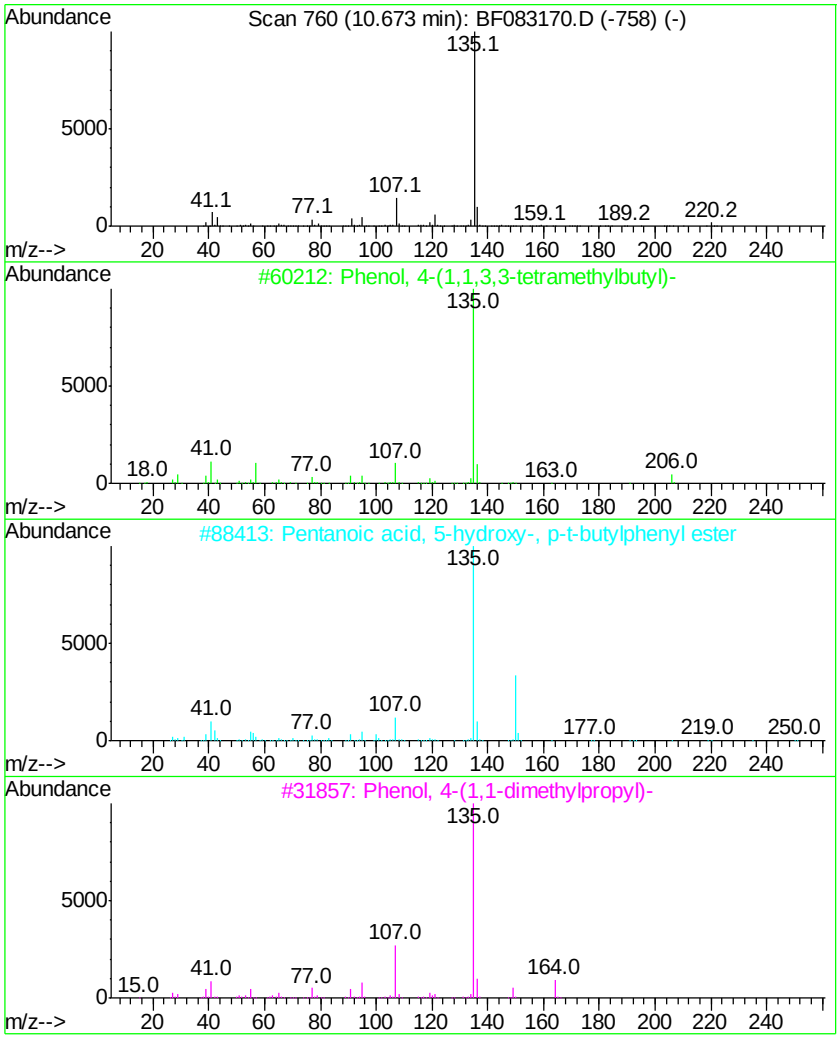
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

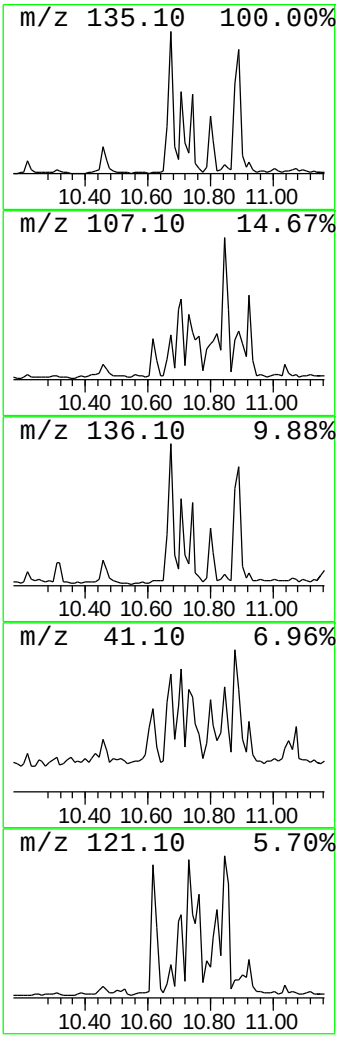
**********

Peak Number 8 Phenol, 4-(1,1,3,3-tetramet... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.67 | 12.53 ng | 1019800 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 78 |
| 2 | Pentanoic acid, 5-hydroxy-, p-t-... | 250 | C15H22O3 | 166273-37-6 | 78 |
| 3 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 78 |
| 4 | 1-n-Hexyladamantane | 220 | C16H28 | 022458-75-9 | 64 |
| 5 | m-Anisic acid, cyclobutyl ester | 206 | C12H14O3 | 1000292-25-0 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

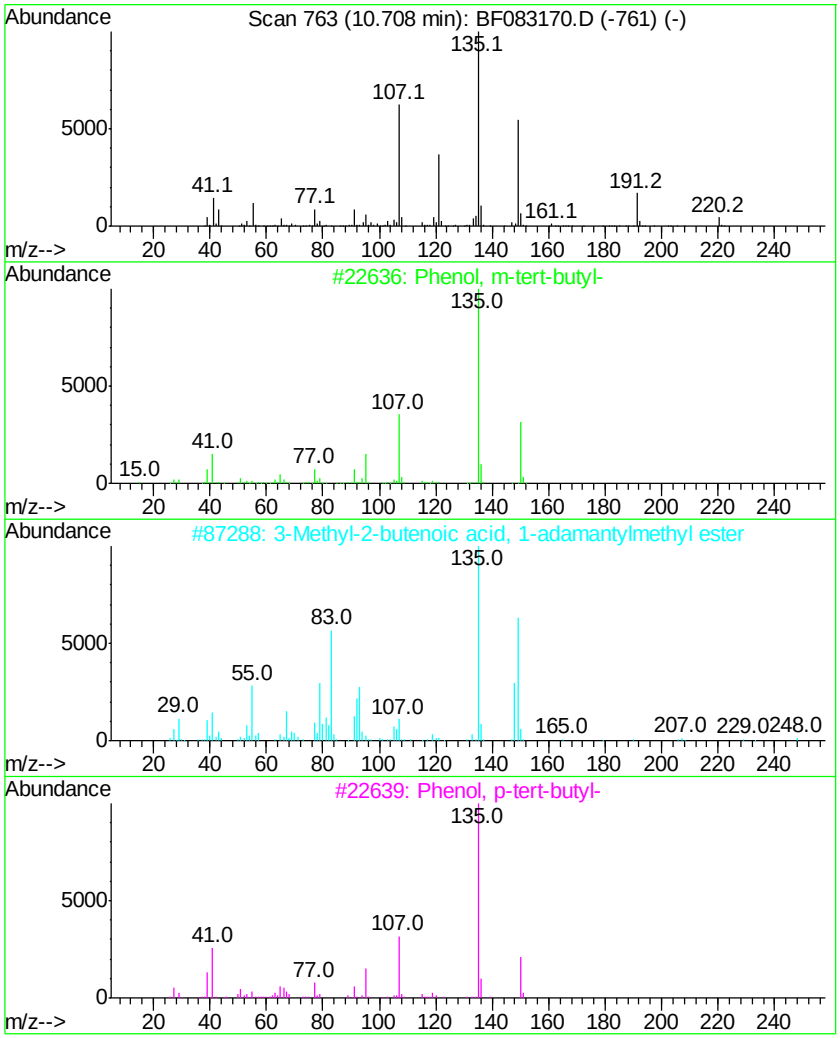
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

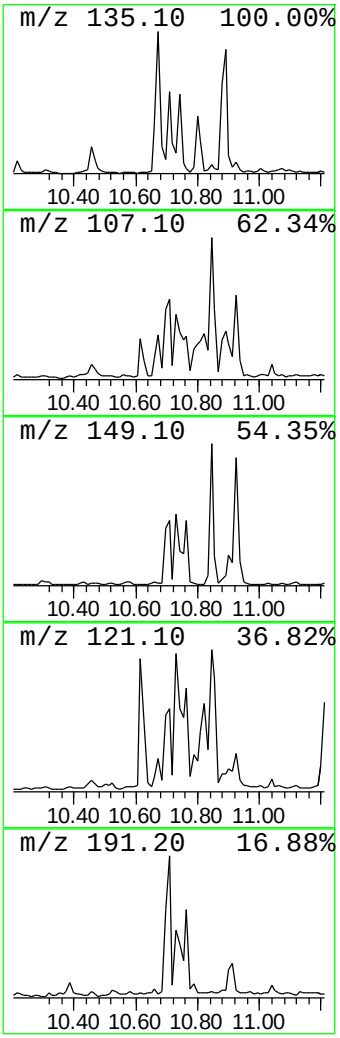
**********

Peak Number 9 Phenol, m-tert-butyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.71 | 15.49 ng | 1260710 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 58 |
| 2 | 3-Methyl-2-butenoic acid, 1-adam... | 248 | C16H24O2 | 1000282-89-4 | 53 |
| 3 | Phenol, p-tert-butyl- | 150 | C10H14O | 000098-54-4 | 50 |
| 4 | 4,6-Bis(4-ethoxybenzylthio)-5-ni... | 457 | C22H23N3O4S2 | 325957-76-4 | 50 |
| 5 | ((1,2-Diethylethylene)bis(p-phen... | 354 | C22H26O4 | 004547-76-6 | 47 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.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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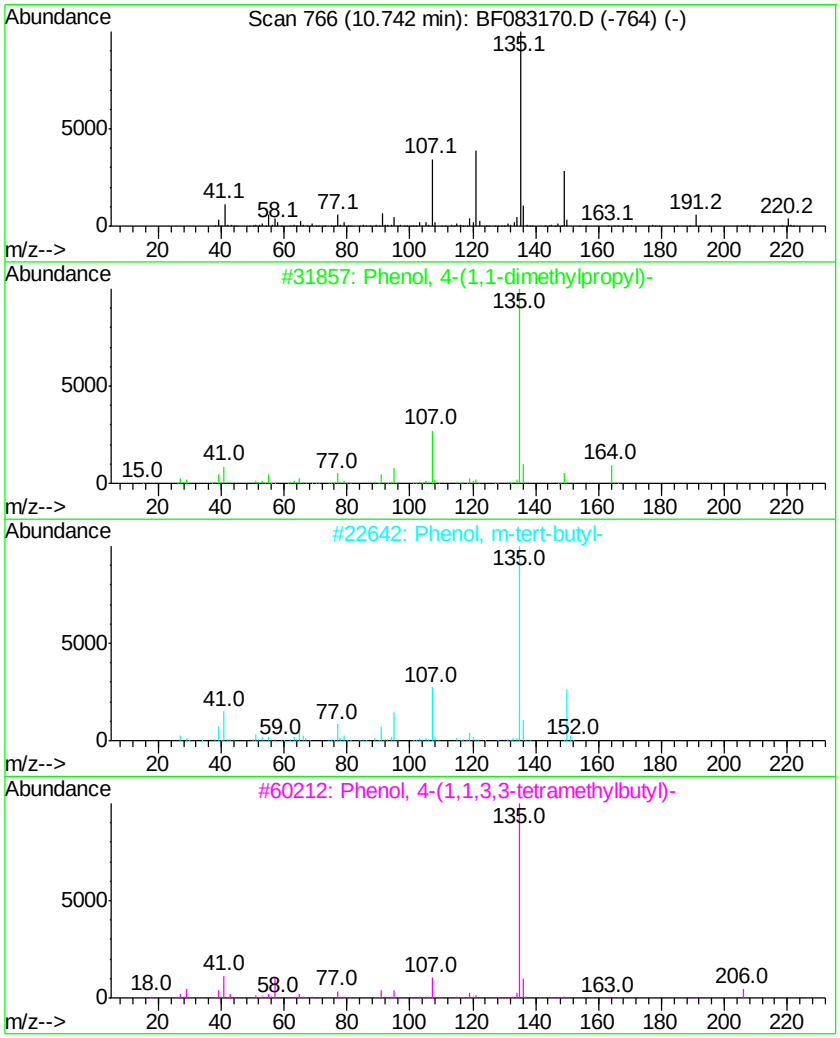
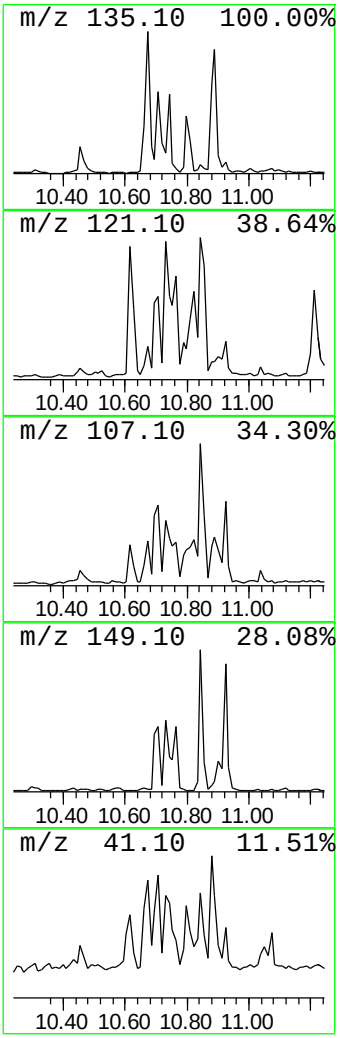
Peak Number 10 Phenol, 4-(1,1-dimethylprop... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.74 | 19.50 ng | 1587890 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 59 |
| 2 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 58 |
| 3 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 53 |
| 4 | 4-tert-Butylphenyl acetate | 192 | C12H16O2 | 003056-64-2 | 50 |
| 5 | Phenol, 2-methyl-5-(1-methylethyl)- | 150 | C10H14O | 000499-75-2 | 47 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

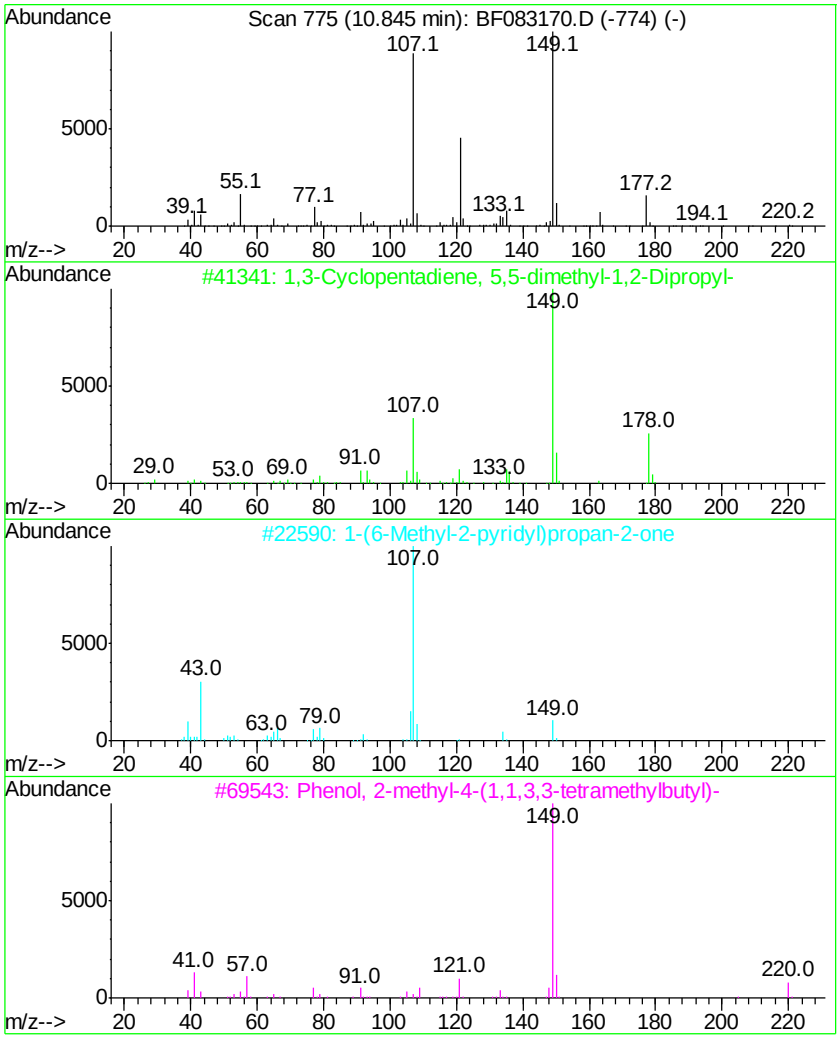
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

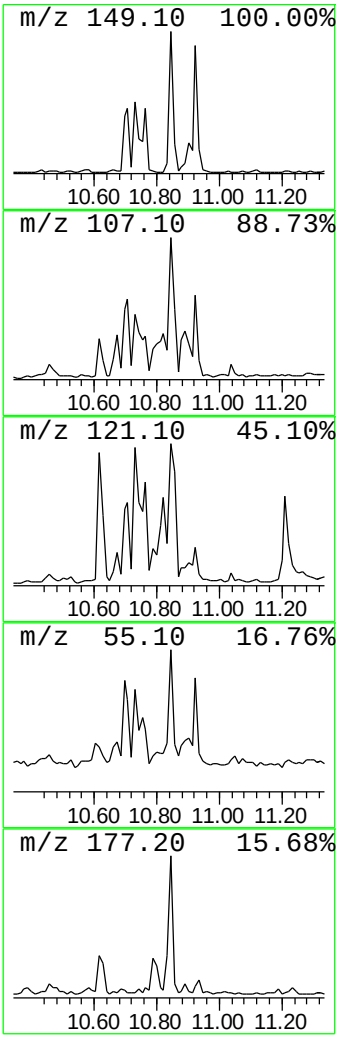
**********

Peak Number 12 1,3-Cyclopentadiene, 5,5-di... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.84 | 14.82 ng | 1206380 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclopentadiene, 5,5-dimethy... | 178 | C13H22 | 1000163-88-0 | 64 |
| 2 | 1-(6-Methyl-2-pyridyl)propan-2-one | 149 | C9H11NO | 065702-08-1 | 50 |
| 3 | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O | 002219-84-3 | 38 |
| 4 | Benzoic acid, 4-(2,4-dichlorophe... | 310 | C15H12Cl2O3 | 1000294-38-1 | 37 |
| 5 | 4-(p-Acetoxyphenyl)-2-butanone | 206 | C12H14O3 | 003572-06-3 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

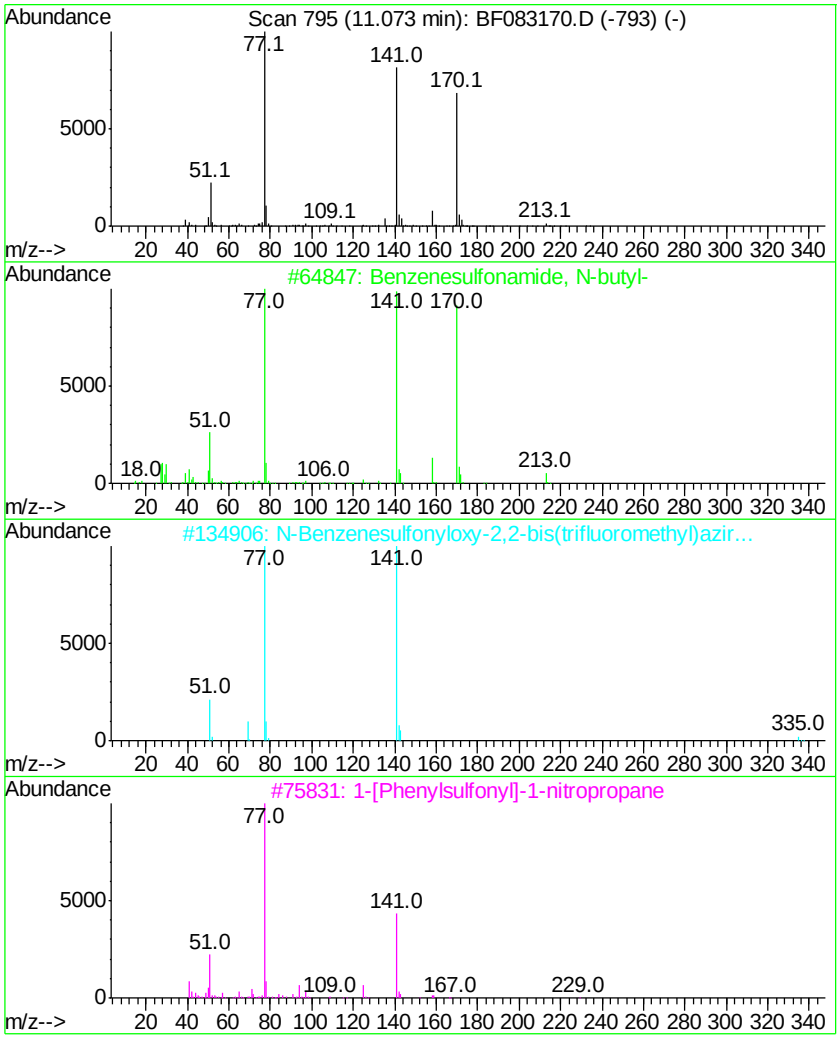
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

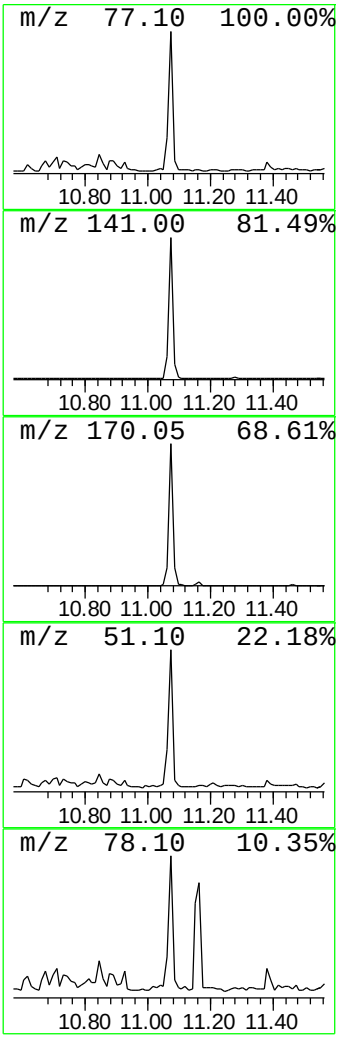
**********

Peak Number 14 Benzenesulfonamide, N-butyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.07 | 9.56 ng | 777923 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenesulfonamide, N-butyl- | 213 | C10H15NO2S | 003622-84-2 | 94 |
| 2 | N-Benzenesulfonyloxy-2,2-bis(tri... | 335 | C10H7F6NO3S | 055734-41-3 | 59 |
| 3 | 1-[Phenylsulfonyl]-1-nitropropane | 229 | C9H11NO4S | 021272-84-4 | 45 |
| 4 | (Phenylsulfonyl)acetonitrile | 181 | C8H7NO2S | 007605-28-9 | 43 |
| 5 | p-Chloromandelic acid | 186 | C8H7ClO3 | 000492-86-4 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.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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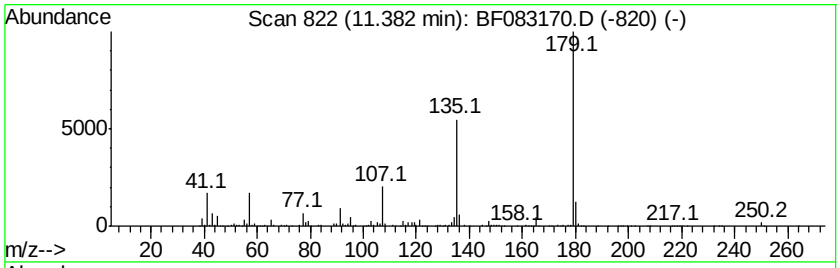
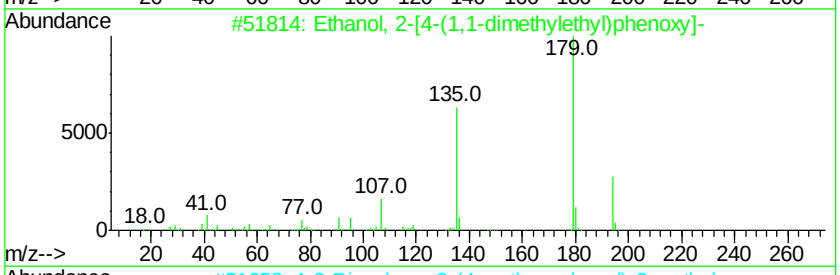
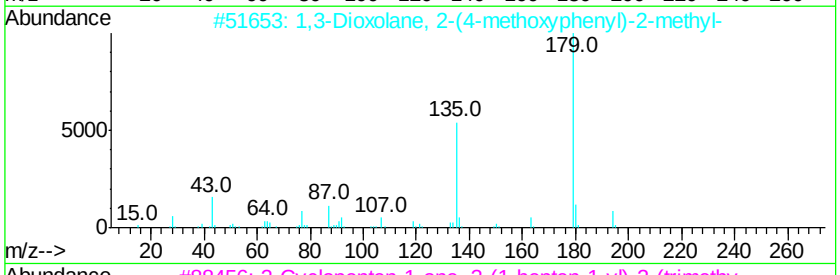
Peak Number 15 Ethanol, 2-[4-(1,1-dimethyl... Concentration Rank 17

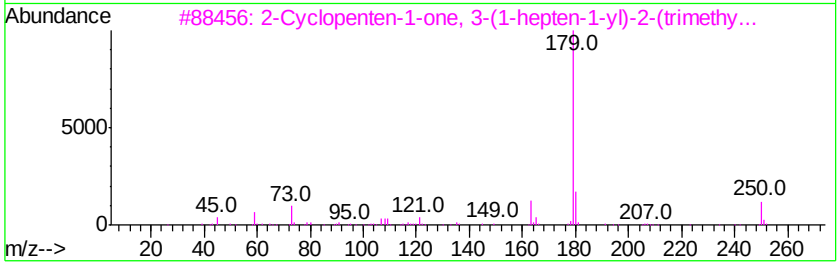
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.38 | 8.44 ng | 687493 | Phenanthrene-d10 | 11.16 |

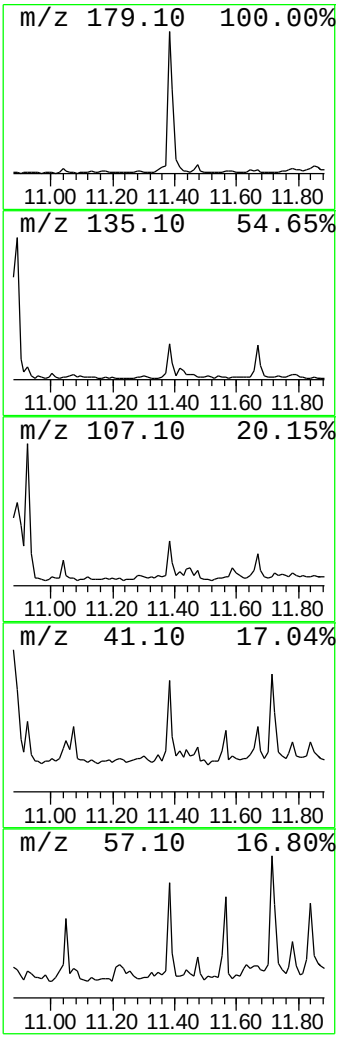
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-[4-(1,1-dimethylethyl... | 194 | C12H18O2 | 000713-46-2 | 80 |
| 2 | 1,3-Dioxolane, 2-(4-methoxypheny... | 194 | C11H14O3 | 036881-00-2 | 56 |
| 3 | 2-Cyclopenten-1-one, 3-(1-hepten... | 250 | C15H26OSi | 1000159-28-7 | 47 |
| 4 | Ethanol, 2-[4-(1,1-dimethylpropy... | 208 | C13H20O2 | 006382-07-6 | 37 |
| 5 | 4-Ethoxy-2-(methylamino)tropone | 179 | C10H13NO2 | 1000241-45-1 | 37 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

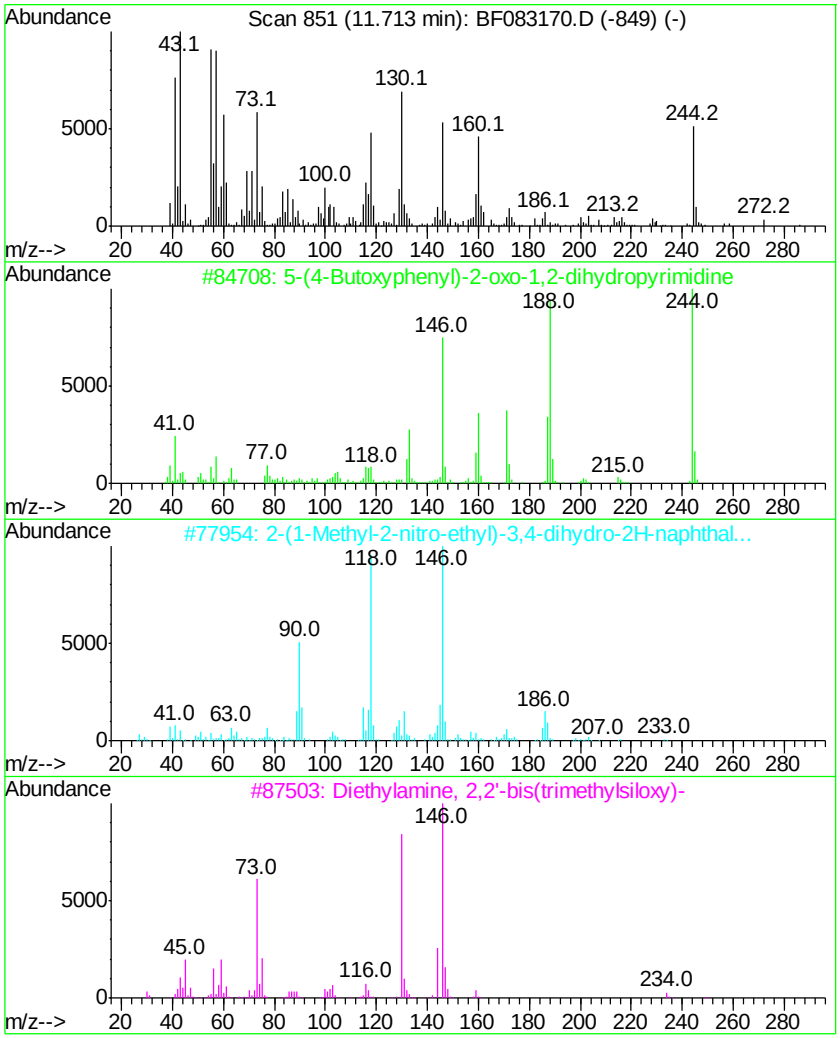
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

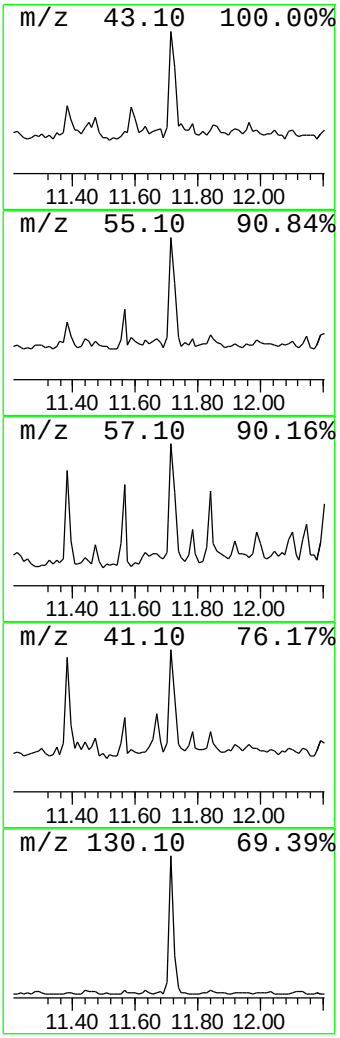
**********

Peak Number 16 unknown11.71 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.71 | 10.44 ng | 850269 | Phenanthrene-d10 | 11.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-(4-Butoxyphenyl)-2-oxo-1,2-dih... | 244 | C14H16N2O2 | 106307-61-3 | 25 |
| 2 | 2-(1-Methyl-2-nitro-ethyl)-3,4-d... | 233 | C13H15NO3 | 1000190-31-3 | 15 |
| 3 | Diethylamine, 2,2'-bis(trimethyl... | 249 | C10H27NO2Si2 | 020836-40-2 | 14 |
| 4 | 6-[4-[Dimethylamino]phenyl]-N,N-... | 244 | C12H16N6 | 072127-26-5 | 11 |
| 5 | Ethyl 2-aminothiazole-4,5-dicarb... | 244 | C9H12N2O4S | 005445-93-2 | 11 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

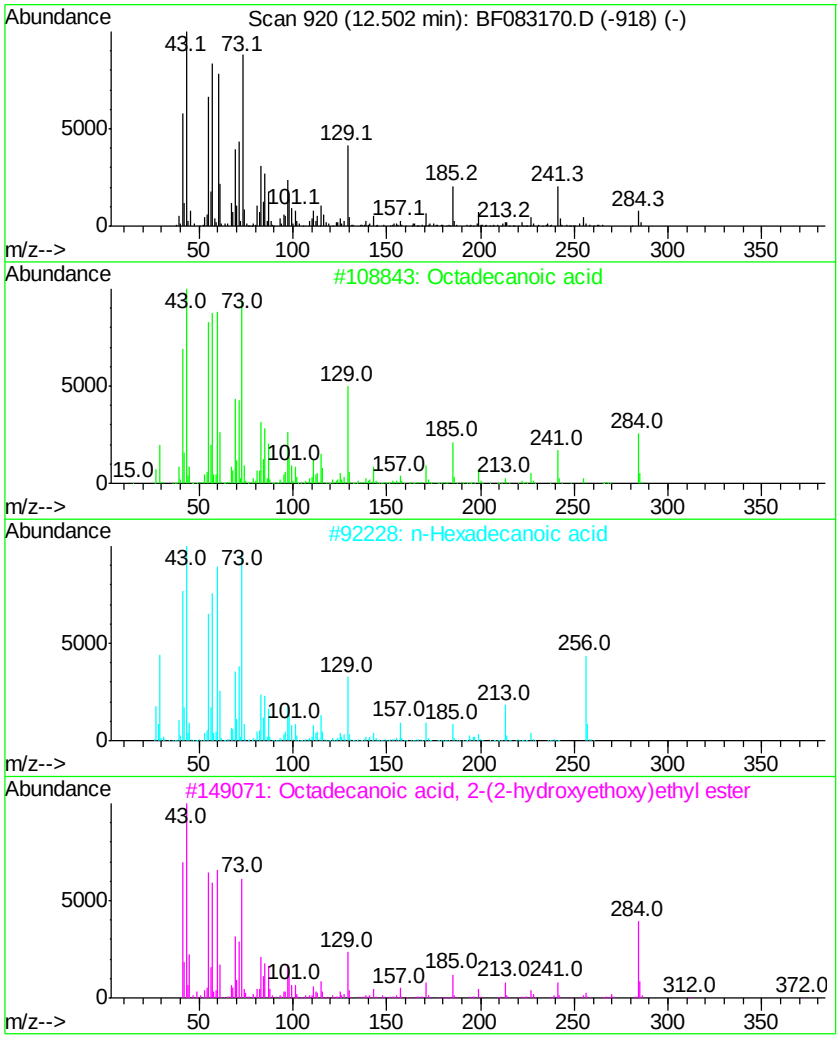
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

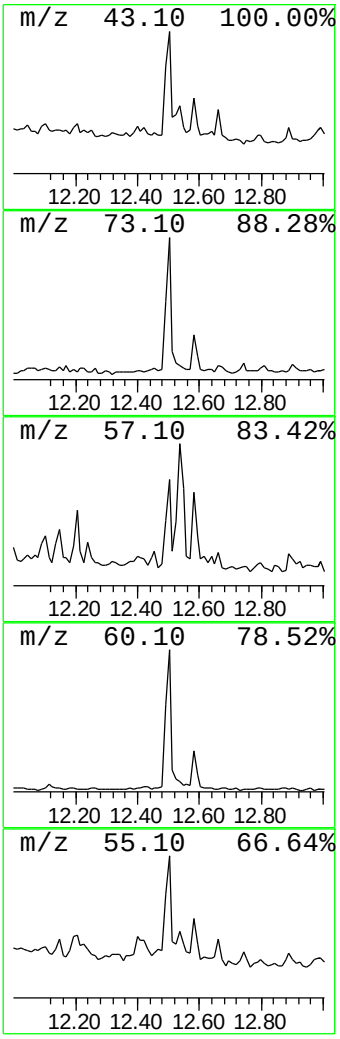
**********

Peak Number 17 Octadecanoic acid Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.50 | 7.82 ng | 521471 | Chrysene-d12 | 13.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 94 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 86 |
| 3 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 83 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 83 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 81 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

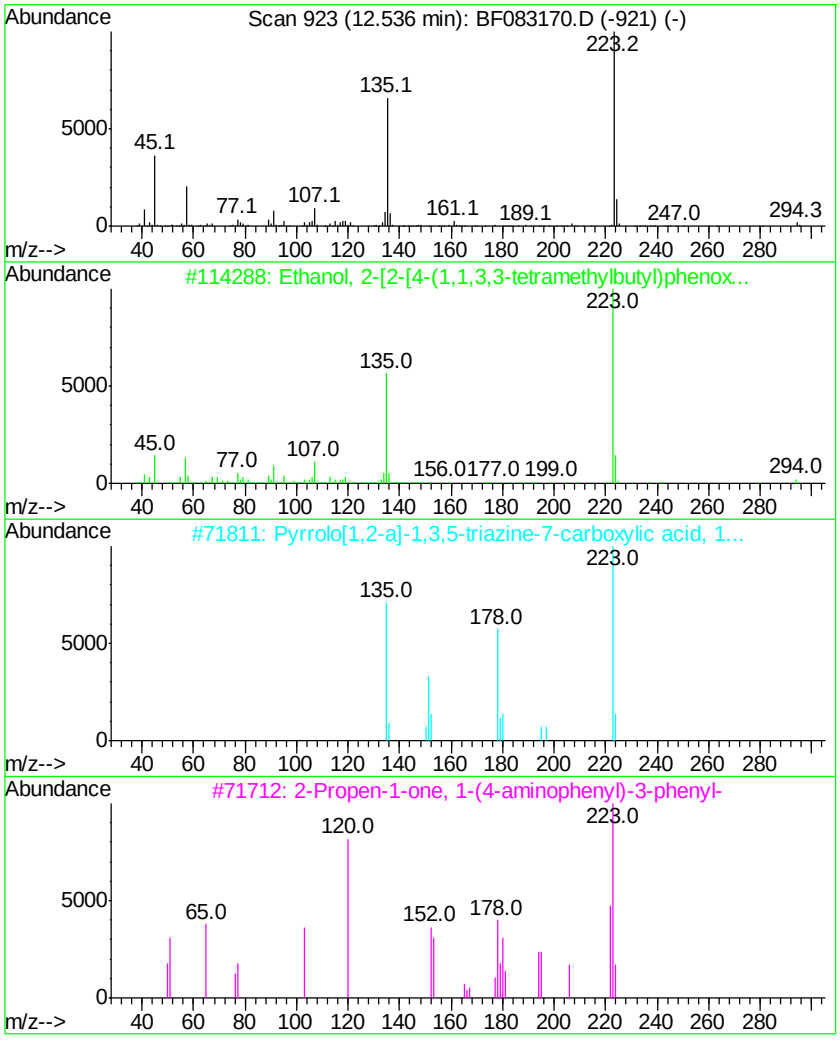
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

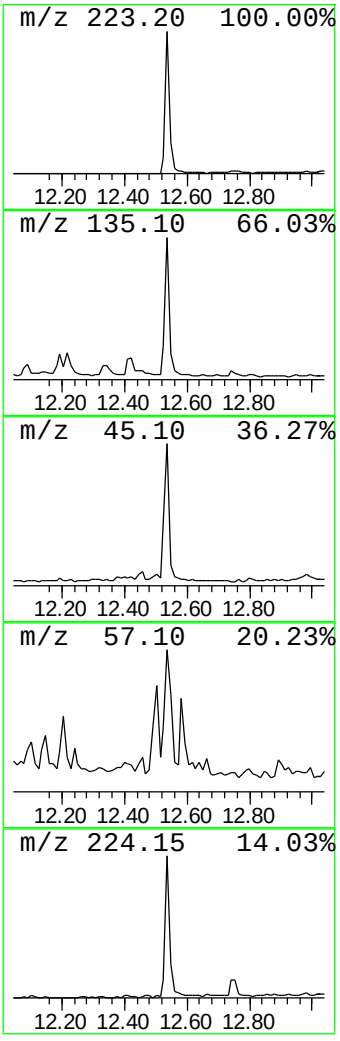
**********

Peak Number 18 Ethanol, 2-[2-[4-(1,1,3,3-t... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.54 | 13.22 ng | 881291 | Chrysene-d12 | 13.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-[2-[4-(1,1,3,3-tetram... | 294 | C18H30O3 | 002315-61-9 | 93 |
| 2 | Pyrrolo[1,2-a]-1,3,5-triazine-7-... | 223 | C9H9N3O4 | 054449-89-7 | 90 |
| 3 | 2-Propen-1-one, 1-(4-aminophenyl... | 223 | C15H13NO | 002403-30-7 | 43 |
| 4 | 4,4'-Trimethylenebis(1-methylpip... | 238 | C15H30N2 | 064168-11-2 | 32 |
| 5 | Imidazolidine, 1,3-diphenyl-2-pr... | 266 | C18H22N2 | 055320-82-6 | 32 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

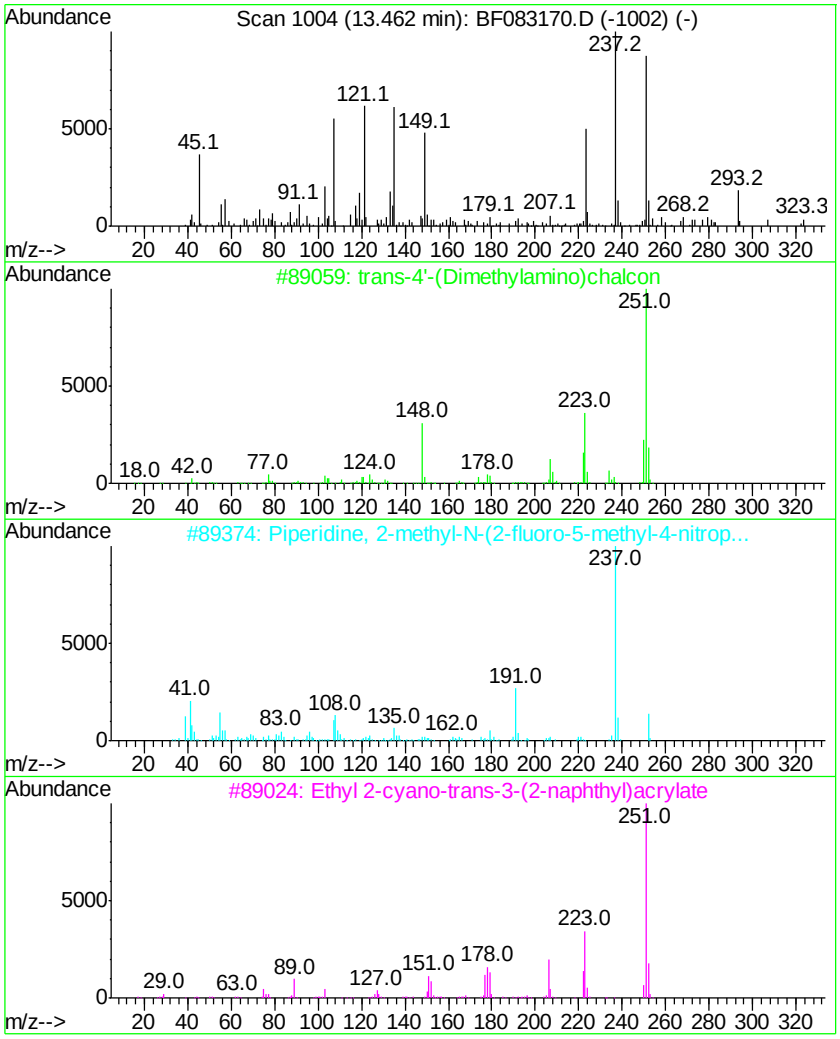
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

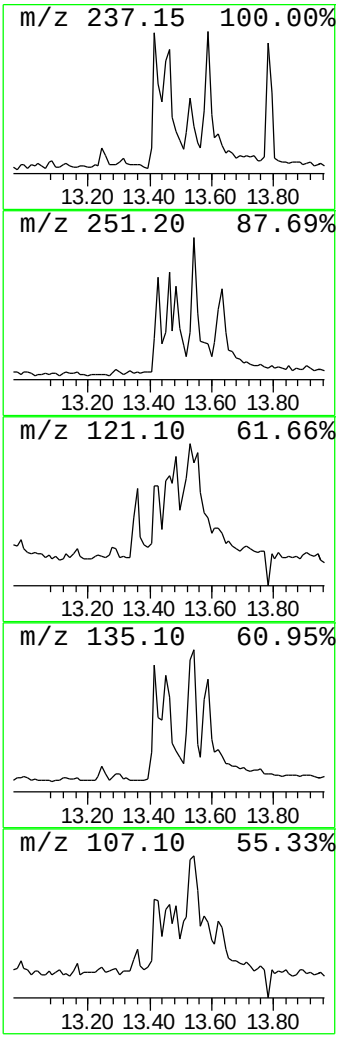
**********

Peak Number 19 unknown13.46 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.46 | 7.57 ng | 505047 | Chrysene-d12 | 13.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-4'-(Dimethylamino)chalcon | 251 | C17H17NO | 038239-50-8 | 18 |
| 2 | Piperidine, 2-methyl-N-(2-fluoro... | 252 | C13H17FN2O2 | 1000277-62-4 | 14 |
| 3 | Ethyl 2-cyano-trans-3-(2-naphthy... | 251 | C16H13NO2 | 029708-01-8 | 14 |
| 4 | 1-(1-Adamantyl)-2-trimethylsilyl... | 252 | C15H28OSi | 1000283-09-0 | 12 |
| 5 | 7-Phenyl-7H-triazolo[e]benzofurazan | 237 | C12H7N5O | 035142-93-9 | 11 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112215.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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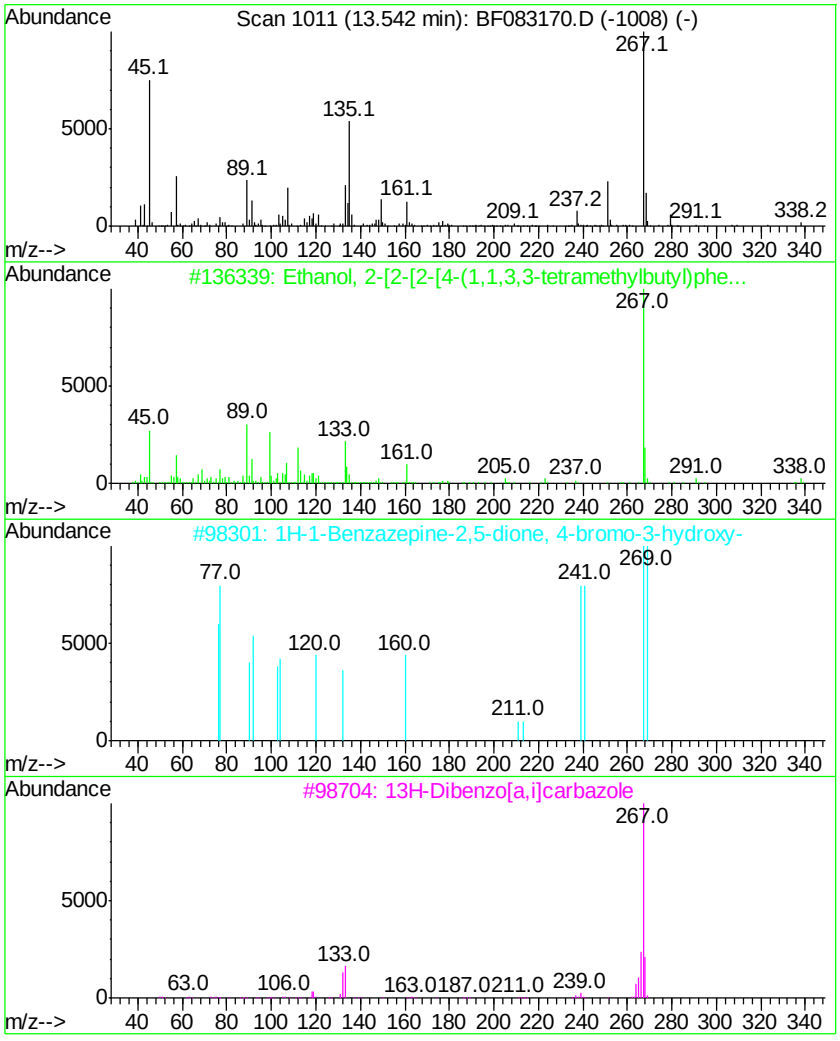
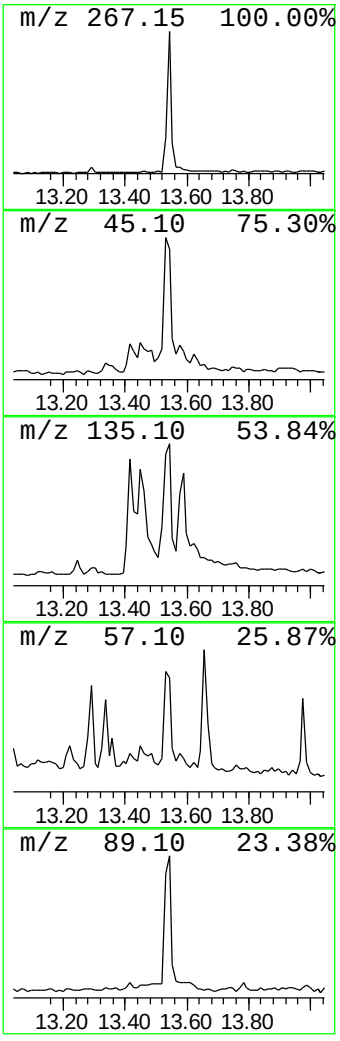
Peak Number 20 Ethanol, 2-[2-[2-[4-(1,1,3,... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.54 | 12.45 ng | 830318 | Chrysene-d12 | 13.78 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-[2-[2-[4-(1,1,3,3-tet... | 338 | C20H34O4 | 002315-62-0 | 64 |
| 2 | 1H-1-Benzazepine-2,5-dione, 4-br... | 267 | C10H6BrNO3 | 052280-66-7 | 38 |
| 3 | 13H-Dibenzo[a,i]carbazole | 267 | C20H13N | 000239-64-5 | 35 |
| 4 | Octaethylene glycol | 370 | C16H34O9 | 1000289-34-2 | 27 |
| 5 | 7H-Dibenzo[c,g]carbazole | 267 | C20H13N | 000194-59-2 | 18 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112215\
Data File : BF083170.D
Acq On : 22 Nov 2015 20:41
Operator : UM/IZ
Sample : G4455-06
Misc :
ALS Vial : 58 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-14

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 2-Pentanone, 4-hy... | 4.79 | 14.9 | ng | 985577 | 1 | 6.65 | 1323470 | 20.0 |
| unknown6.42 | 6.42 | 77.2 | ng | 5106280 | 1 | 6.65 | 1323470 | 20.0 |
| unknown7.44 | 7.44 | 7.2 | ng | 569637 | 2 | 7.94 | 1575790 | 20.0 |
| 2-Propanol, 1,1'-... | 8.18 | 43.4 | ng | 3422450 | 2 | 7.94 | 1575790 | 20.0 |
| 2,4-Diethyl-6-met... | 8.20 | 45.8 | ng | 3607420 | 2 | 7.94 | 1575790 | 20.0 |
| unknown10.62 | 10.62 | 8.9 | ng | 722701 | 4 | 11.16 | 1628300 | 20.0 |
| Phenol, 4-(1,1,3,... | 10.67 | 12.5 | ng | 1019800 | 4 | 11.16 | 1628300 | 20.0 |
| Phenol, m-tert-bu... | 10.71 | 15.5 | ng | 1260710 | 4 | 11.16 | 1628300 | 20.0 |
| Phenol, 4-(1,1-di... | 10.74 | 19.5 | ng | 1587890 | 4 | 11.16 | 1628300 | 20.0 |
| 1,3-Cyclopentadie... | 10.84 | 14.8 | ng | 1206380 | 4 | 11.16 | 1628300 | 20.0 |
| Benzenesulfonamid... | 11.07 | 9.6 | ng | 777923 | 4 | 11.16 | 1628300 | 20.0 |
| Ethanol, 2-[4-(1,... | 11.38 | 8.4 | ng | 687493 | 4 | 11.16 | 1628300 | 20.0 |
| unknown11.71 | 11.71 | 10.4 | ng | 850269 | 4 | 11.16 | 1628300 | 20.0 |
| Octadecanoic acid | 12.50 | 7.8 | ng | 521471 | 5 | 13.78 | 1333760 | 20.0 |
| Ethanol, 2-[2-[4-... | 12.54 | 13.2 | ng | 881291 | 5 | 13.78 | 1333760 | 20.0 |
| unknown13.46 | 13.46 | 7.6 | ng | 505047 | 5 | 13.78 | 1333760 | 20.0 |
| Ethanol, 2-[2-[2-... | 13.54 | 12.4 | ng | 830318 | 5 | 13.78 | 1333760 | 20.0 |