LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

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-BF052316.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 | 4.730 | 274 | 275 | 283 | rBV | 22270 | 87339 | 2.15% | 0.241% |
| 2 | 5.370 | 329 | 331 | 352 | rBV | 777506 | 1786961 | 43.96% | 4.923% |
| 3 | 6.159 | 397 | 400 | 406 | rBV | 30717 | 69123 | 1.70% | 0.190% |
| 4 | 6.867 | 459 | 462 | 464 | rBV | 37455 | 72940 | 1.79% | 0.201% |
| 5 | 6.982 | 470 | 472 | 475 | rBV | 32947 | 51883 | 1.28% | 0.143% |
| 6 | 7.027 | 475 | 476 | 482 | rVV | 513345 | 1029991 | 25.34% | 2.838% |
| 7 | 7.119 | 482 | 484 | 492 | rVB | 2097295 | 3269154 | 80.43% | 9.006% |
| 8 | 7.404 | 505 | 509 | 512 | rVB3 | 32781 | 78889 | 1.94% | 0.217% |
| 9 | 7.473 | 512 | 515 | 527 | rBV | 416084 | 867807 | 21.35% | 2.391% |
| 10 | 7.702 | 532 | 535 | 542 | rBV | 2080943 | 3025560 | 74.44% | 8.335% |
| 11 | 7.804 | 542 | 544 | 549 | rVB | 38278 | 50434 | 1.24% | 0.139% |
| 12 | 7.885 | 549 | 551 | 559 | rVB2 | 112279 | 225066 | 5.54% | 0.620% |
| 13 | 8.022 | 559 | 563 | 573 | rBV4 | 93065 | 295452 | 7.27% | 0.814% |
| 14 | 8.170 | 573 | 576 | 579 | rBV2 | 47151 | 85759 | 2.11% | 0.236% |
| 15 | 8.239 | 579 | 582 | 585 | rVB3 | 22227 | 43460 | 1.07% | 0.120% |
| 16 | 8.319 | 585 | 589 | 590 | rBV3 | 47408 | 128553 | 3.16% | 0.354% |
| 17 | 8.387 | 590 | 595 | 602 | rVV2 | 1809127 | 2912973 | 71.67% | 8.025% |
| 18 | 8.559 | 609 | 610 | 613 | rVB | 60094 | 74333 | 1.83% | 0.205% |
| 19 | 8.719 | 622 | 624 | 629 | rVB2 | 91600 | 144896 | 3.56% | 0.399% |
| 20 | 8.822 | 629 | 633 | 635 | rBV2 | 42234 | 57584 | 1.42% | 0.159% |
| 21 | 8.867 | 635 | 637 | 639 | rVB2 | 33714 | 44788 | 1.10% | 0.123% |
| 22 | 8.970 | 643 | 646 | 647 | rBV | 55595 | 95209 | 2.34% | 0.262% |
| 23 | 8.993 | 647 | 648 | 653 | rVB2 | 110301 | 217552 | 5.35% | 0.599% |
| 24 | 9.096 | 654 | 657 | 661 | rVB2 | 56283 | 113174 | 2.78% | 0.312% |
| 25 | 9.187 | 663 | 665 | 669 | rBV2 | 30019 | 74022 | 1.82% | 0.204% |
| 26 | 9.279 | 671 | 673 | 678 | rVB5 | 31930 | 73458 | 1.81% | 0.202% |
| 27 | 9.382 | 678 | 682 | 683 | rBV3 | 25705 | 57678 | 1.42% | 0.159% |
| 28 | 9.416 | 683 | 685 | 687 | rVB | 41838 | 52254 | 1.29% | 0.144% |
| 29 | 9.496 | 690 | 692 | 699 | rVV | 789241 | 1349609 | 33.20% | 3.718% |
| 30 | 9.599 | 699 | 701 | 709 | rVB3 | 98476 | 218778 | 5.38% | 0.603% |
| 31 | 9.908 | 726 | 728 | 731 | rVB3 | 33910 | 52217 | 1.28% | 0.144% |
| 32 | 9.976 | 731 | 734 | 737 | rBV4 | 39102 | 80833 | 1.99% | 0.223% |
| 33 | 10.216 | 752 | 755 | 757 | rBV3 | 33896 | 86342 | 2.12% | 0.238% |
| 34 | 10.273 | 757 | 760 | 762 | rVV2 | 122796 | 229601 | 5.65% | 0.633% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

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-BF052316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.342 | 763 | 766 | 770 | rVV | 139252 | 264514 | 6.51% | 0.729% |
| 36 | 10.445 | 770 | 775 | 778 | rVV2 | 52363 | 160656 | 3.95% | 0.443% |
| 37 | 10.490 | 778 | 779 | 782 | rVB | 41806 | 47682 | 1.17% | 0.131% |
| 38 | 10.548 | 782 | 784 | 785 | rBV2 | 28925 | 45642 | 1.12% | 0.126% |
| 39 | 10.582 | 785 | 787 | 791 | rVB2 | 56859 | 89237 | 2.20% | 0.246% |
| 40 | 10.650 | 791 | 793 | 796 | rBV3 | 27560 | 65304 | 1.61% | 0.180% |
| 41 | 10.776 | 799 | 804 | 805 | rBV5 | 33165 | 92051 | 2.26% | 0.254% |
| 42 | 10.810 | 805 | 807 | 810 | rVV | 306108 | 416802 | 10.25% | 1.148% |
| 43 | 10.868 | 810 | 812 | 816 | rVB4 | 30952 | 51857 | 1.28% | 0.143% |
| 44 | 10.982 | 820 | 822 | 826 | rVB3 | 34697 | 58934 | 1.45% | 0.162% |
| 45 | 11.085 | 828 | 831 | 832 | rBV | 52387 | 74388 | 1.83% | 0.205% |
| 46 | 11.153 | 835 | 837 | 840 | rVB | 46821 | 73848 | 1.82% | 0.203% |
| 47 | 11.211 | 840 | 842 | 845 | rBV3 | 29974 | 46706 | 1.15% | 0.129% |
| 48 | 11.279 | 845 | 848 | 851 | rBV | 3188511 | 4064576 | 100.00% | 11.198% |
| 49 | 11.485 | 863 | 866 | 868 | rBV3 | 79650 | 158041 | 3.89% | 0.435% |
| 50 | 11.531 | 868 | 870 | 873 | rVV3 | 74578 | 158415 | 3.90% | 0.436% |
| 51 | 11.576 | 873 | 874 | 878 | rVB3 | 58429 | 96638 | 2.38% | 0.266% |
| 52 | 11.748 | 886 | 889 | 890 | rBV3 | 37224 | 69303 | 1.71% | 0.191% |
| 53 | 11.782 | 890 | 892 | 893 | rVV | 49585 | 81939 | 2.02% | 0.226% |
| 54 | 11.805 | 893 | 894 | 896 | rVV2 | 75090 | 105438 | 2.59% | 0.290% |
| 55 | 11.851 | 896 | 898 | 901 | rVB5 | 49684 | 89858 | 2.21% | 0.248% |
| 56 | 11.976 | 906 | 909 | 916 | rVV3 | 239585 | 474693 | 11.68% | 1.308% |
| 57 | 12.113 | 919 | 921 | 926 | rVB3 | 92832 | 181439 | 4.46% | 0.500% |
| 58 | 12.216 | 929 | 930 | 932 | rBV2 | 26154 | 42186 | 1.04% | 0.116% |
| 59 | 12.319 | 937 | 939 | 943 | rBV | 718338 | 1144025 | 28.15% | 3.152% |
| 60 | 12.376 | 943 | 944 | 947 | rVB2 | 39678 | 62976 | 1.55% | 0.173% |
| 61 | 12.594 | 961 | 963 | 967 | rBV4 | 29242 | 77262 | 1.90% | 0.213% |
| 62 | 12.834 | 980 | 984 | 985 | rBV4 | 61476 | 131129 | 3.23% | 0.361% |
| 63 | 12.868 | 985 | 987 | 989 | rVB3 | 56986 | 98500 | 2.42% | 0.271% |
| 64 | 13.096 | 1005 | 1007 | 1010 | rBV4 | 38390 | 77303 | 1.90% | 0.213% |
| 65 | 13.154 | 1010 | 1012 | 1017 | rVV4 | 47436 | 101372 | 2.49% | 0.279% |
| 66 | 13.234 | 1017 | 1019 | 1022 | rVB2 | 46619 | 74726 | 1.84% | 0.206% |
| 67 | 13.508 | 1040 | 1043 | 1046 | rBV | 161046 | 228670 | 5.63% | 0.630% |
| 68 | 13.622 | 1050 | 1053 | 1062 | rBV | 1710965 | 2975810 | 73.21% | 8.198% |
| 69 | 13.931 | 1076 | 1080 | 1085 | rVB7 | 66110 | 215223 | 5.30% | 0.593% |
| 70 | 14.399 | 1119 | 1121 | 1124 | rBV3 | 26220 | 52490 | 1.29% | 0.145% |
| 71 | 14.514 | 1129 | 1131 | 1134 | rVB | 74272 | 103867 | 2.56% | 0.286% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

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-BF052316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.731 | 1147 | 1150 | 1156 | rBV | 764014 | 1001881 | 24.65% | 2.760% |
| 73 | 15.725 | 1235 | 1237 | 1244 | rVB | 144574 | 269496 | 6.63% | 0.742% |
| 74 | 16.823 | 1331 | 1333 | 1337 | rBV2 | 68416 | 146088 | 3.59% | 0.402% |
| 75 | 16.925 | 1340 | 1342 | 1345 | rVB | 94249 | 118544 | 2.92% | 0.327% |
| 76 | 17.085 | 1353 | 1356 | 1359 | rBV | 3217624 | 3676211 | 90.45% | 10.128% |
| 77 | 17.851 | 1421 | 1423 | 1426 | rBV | 46051 | 66493 | 1.64% | 0.183% |
| 78 | 17.920 | 1427 | 1429 | 1434 | rVB2 | 47222 | 67873 | 1.67% | 0.187% |
| 79 | 18.354 | 1464 | 1467 | 1472 | rBV4 | 29683 | 70049 | 1.72% | 0.193% |
| 80 | 18.434 | 1472 | 1474 | 1484 | rVB | 582256 | 829826 | 20.42% | 2.286% |
| 81 | 20.114 | 1619 | 1621 | 1626 | rBV | 357263 | 594915 | 14.64% | 1.639% |

Sum of corrected areas: 36298548

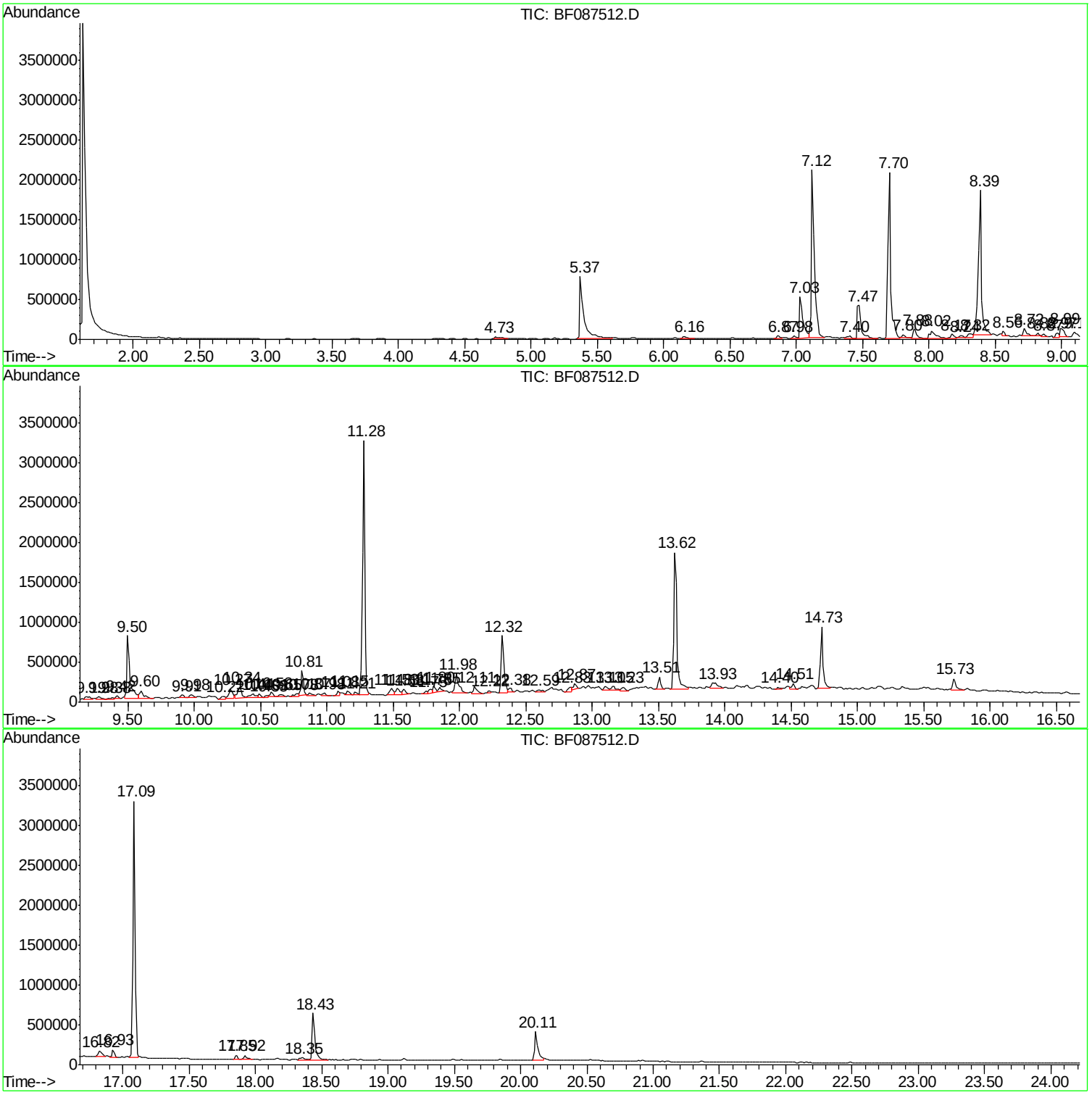
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

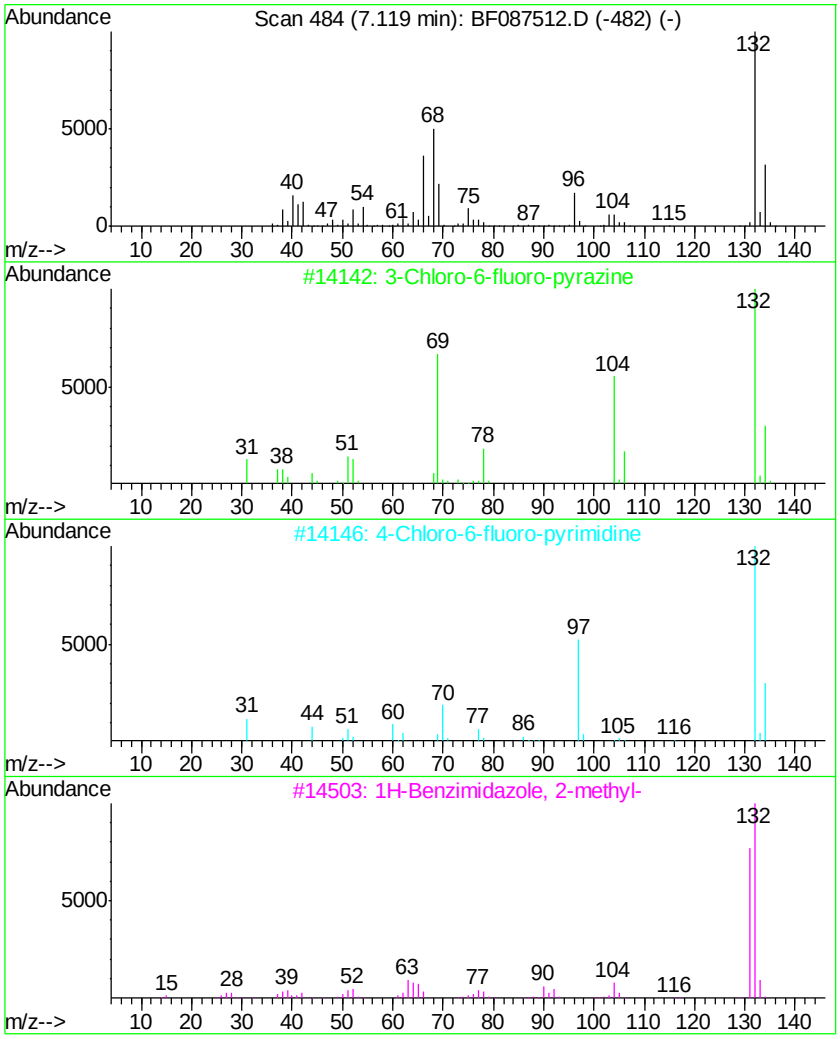
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

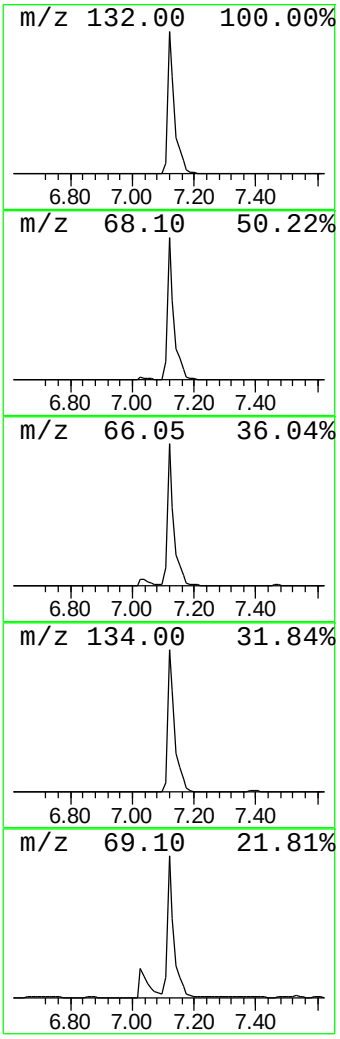
**********

Peak Number 1 unknown7.12 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.12 | 75.34 ng | 3269150 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 27 |
| 3 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |
| 4 | Pyrazolo(2,3-a)pyridine, 7-methyl- | 132 | C8H8N2 | 034760-58-2 | 22 |
| 5 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 22 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

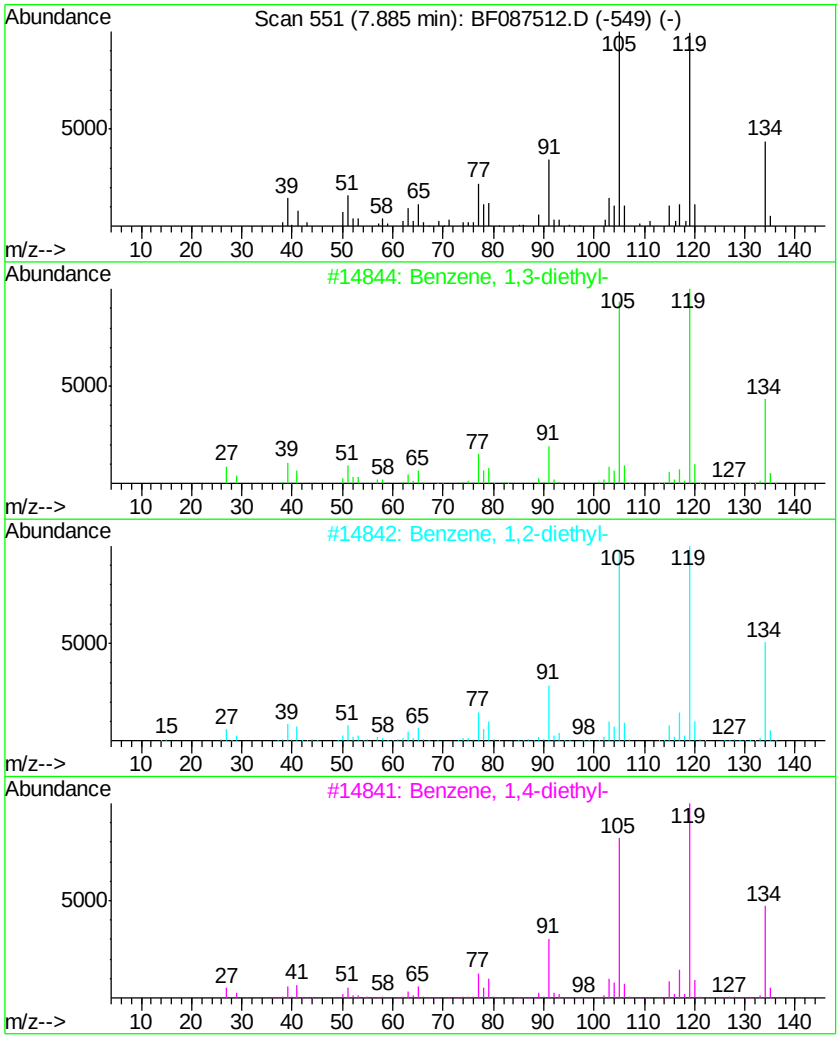
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

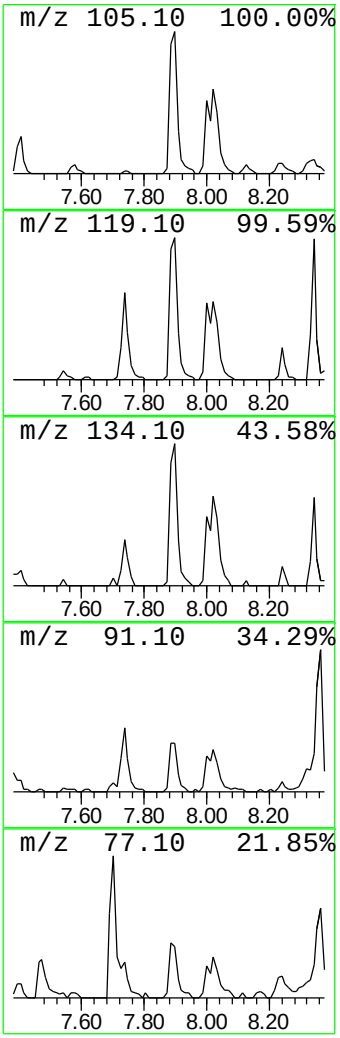
**********

Peak Number 3 Benzene, 1,3-diethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.88 | 5.19 ng | 225066 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 97 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 97 |
| 3 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 93 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 87 |
| 5 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 87 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

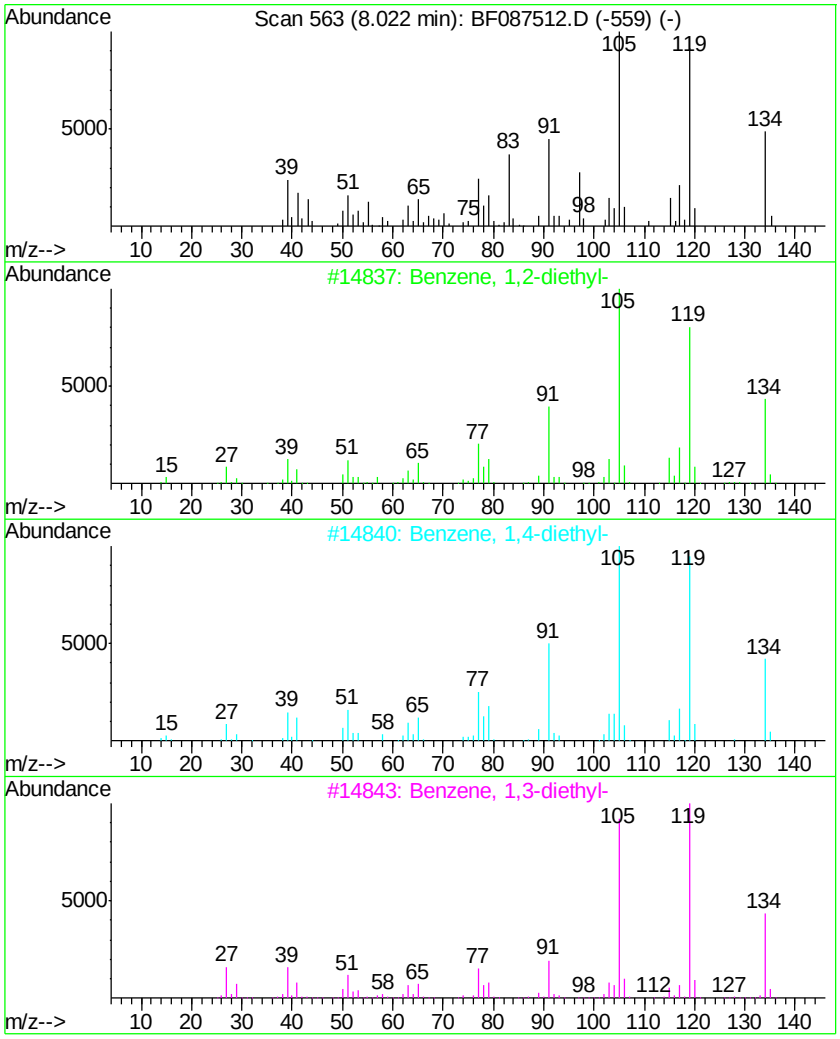
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

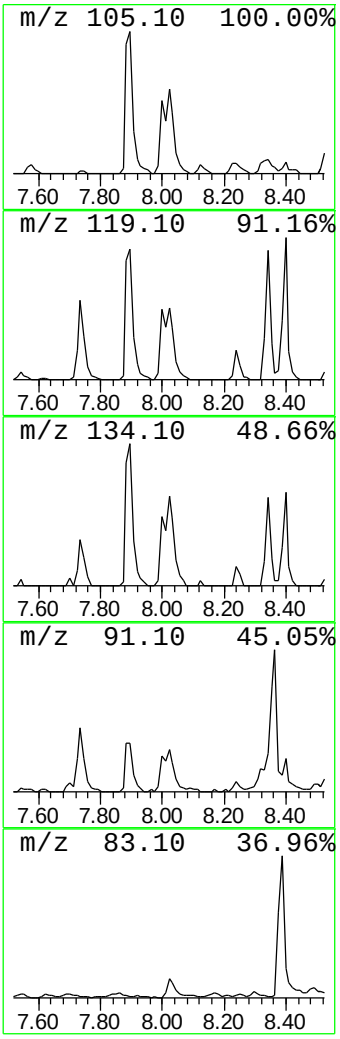
**********

Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.02 | 6.81 ng | 295452 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 96 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 90 |
| 3 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 76 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 76 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 70 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

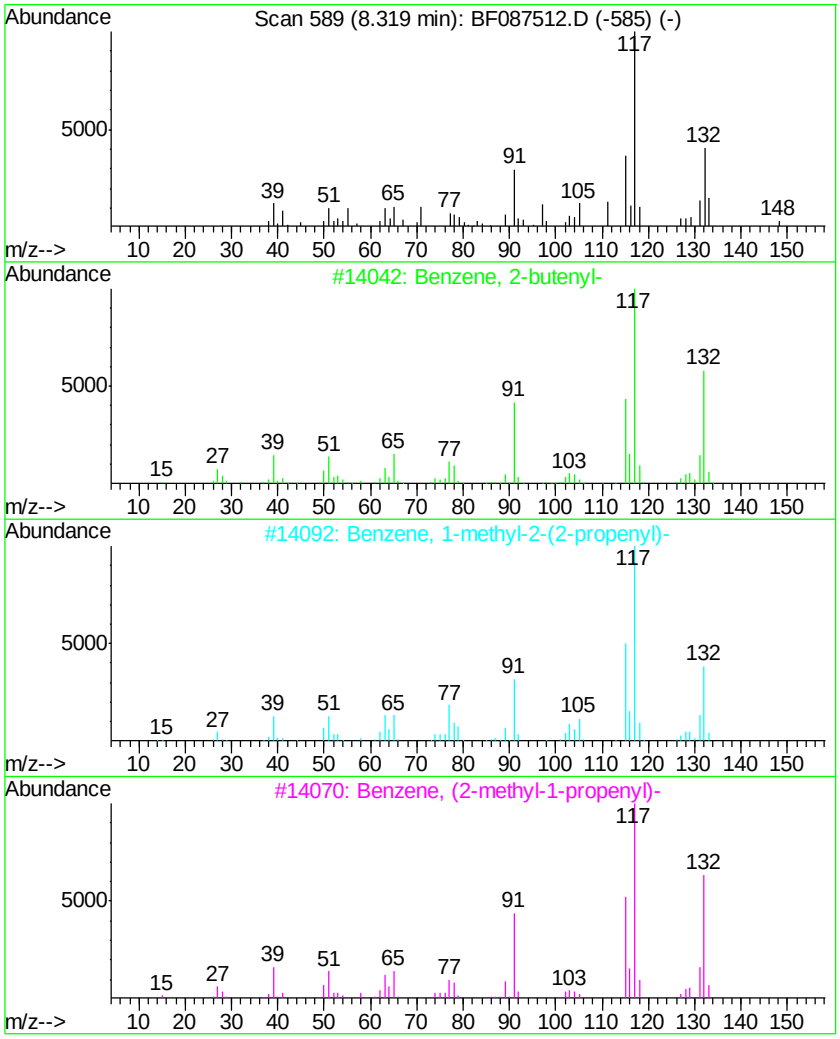
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

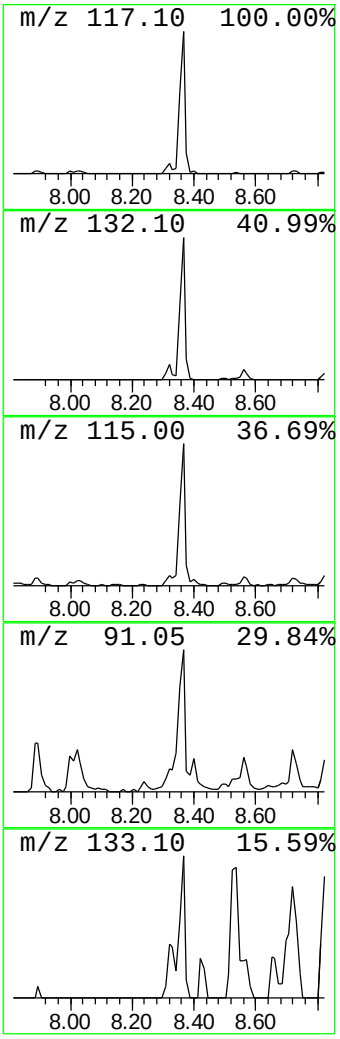
**********

Peak Number 5 Benzene, 2-butenyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.32 | 2.96 ng | 128553 | 1,4-Dichlorobenzene-d4 | 7.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 96 |
| 2 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 93 |
| 3 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 93 |
| 4 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 93 |
| 5 | (E)-1-Phenyl-1-butene | 132 | C10H12 | 001005-64-7 | 91 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

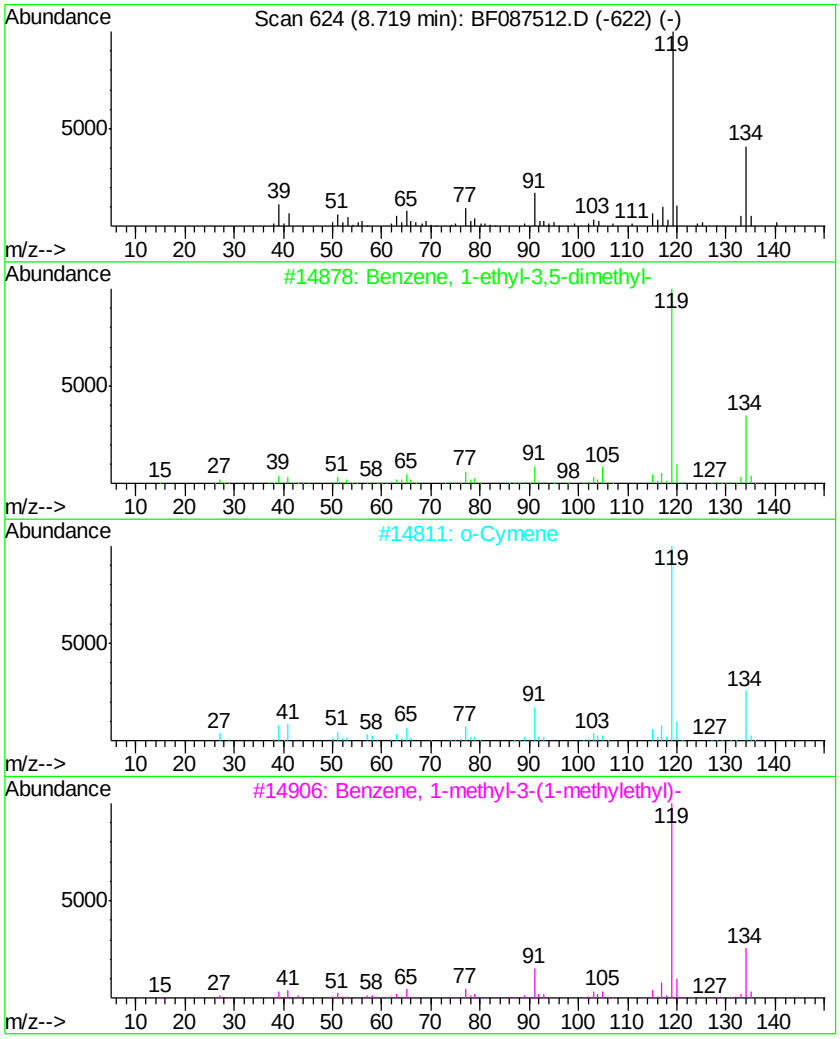
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

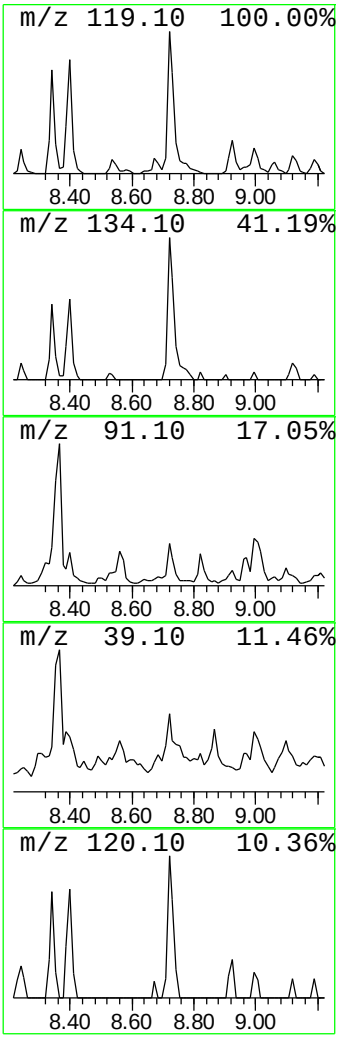
**********

Peak Number 6 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.72 | 2.15 ng | 144896 | Naphthalene-d8 | 9.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 94 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 94 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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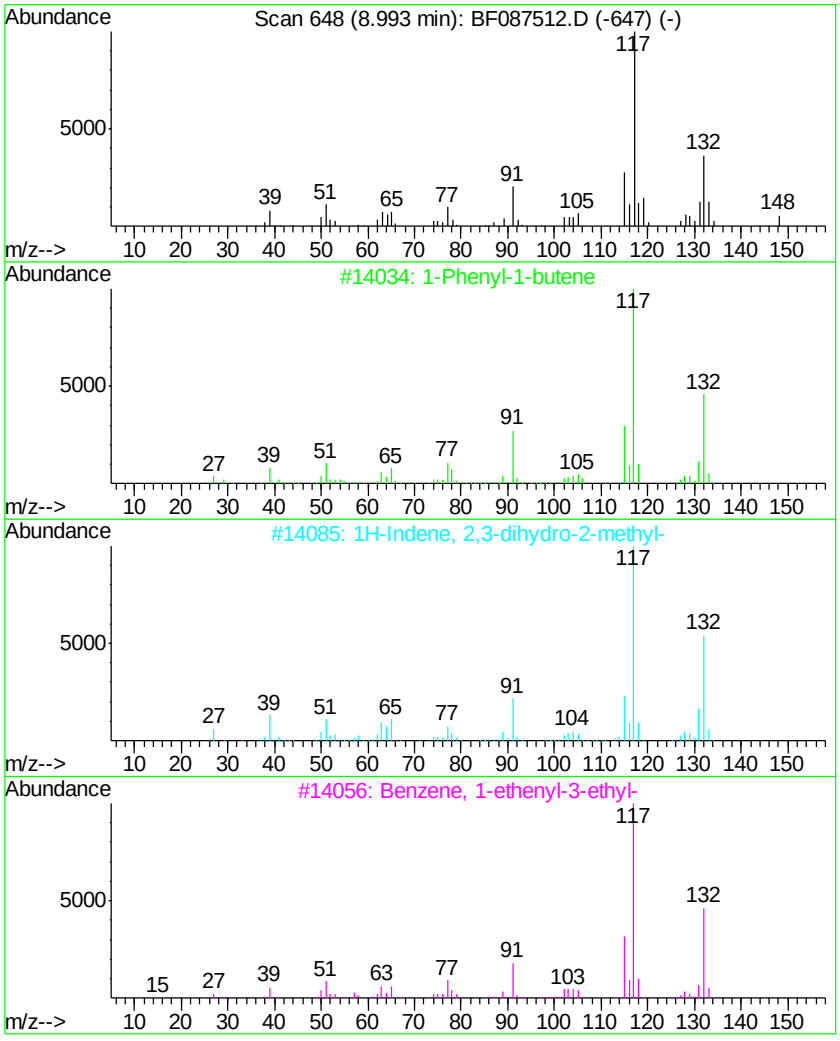
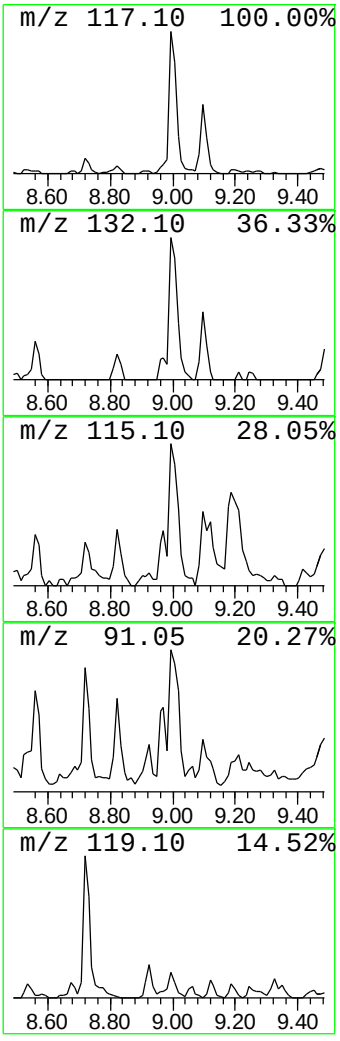
Peak Number 7 1-Phenyl-1-butene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.99 | 3.22 ng | 217552 | Naphthalene-d8 | 9.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 95 |
| 2 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 93 |
| 3 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 93 |
| 4 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 91 |
| 5 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 87 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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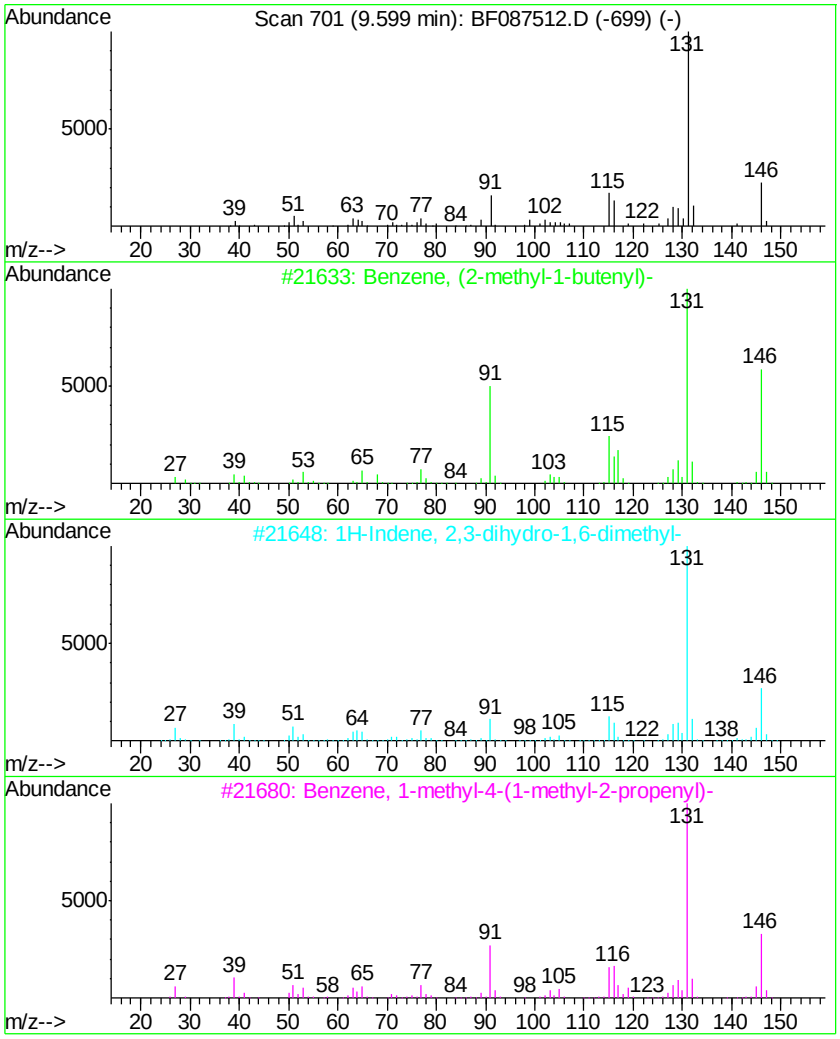
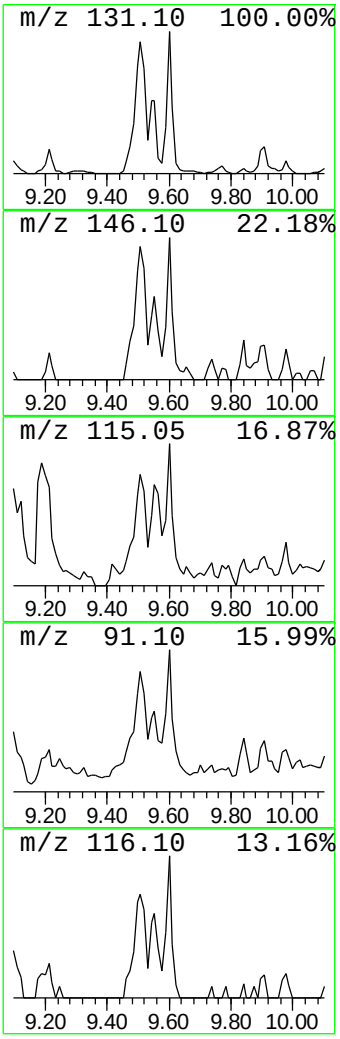
Peak Number 8 Benzene, (2-methyl-1-butenyl)- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.60 | 3.24 ng | 218778 | Naphthalene-d8 | 9.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 91 |
| 2 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 91 |
| 3 | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14 | 097664-18-1 | 91 |
| 4 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 91 |
| 5 | Benzene, 1-methyl-3-(1-methyl-2-... | 146 | C11H14 | 052161-57-6 | 90 |



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Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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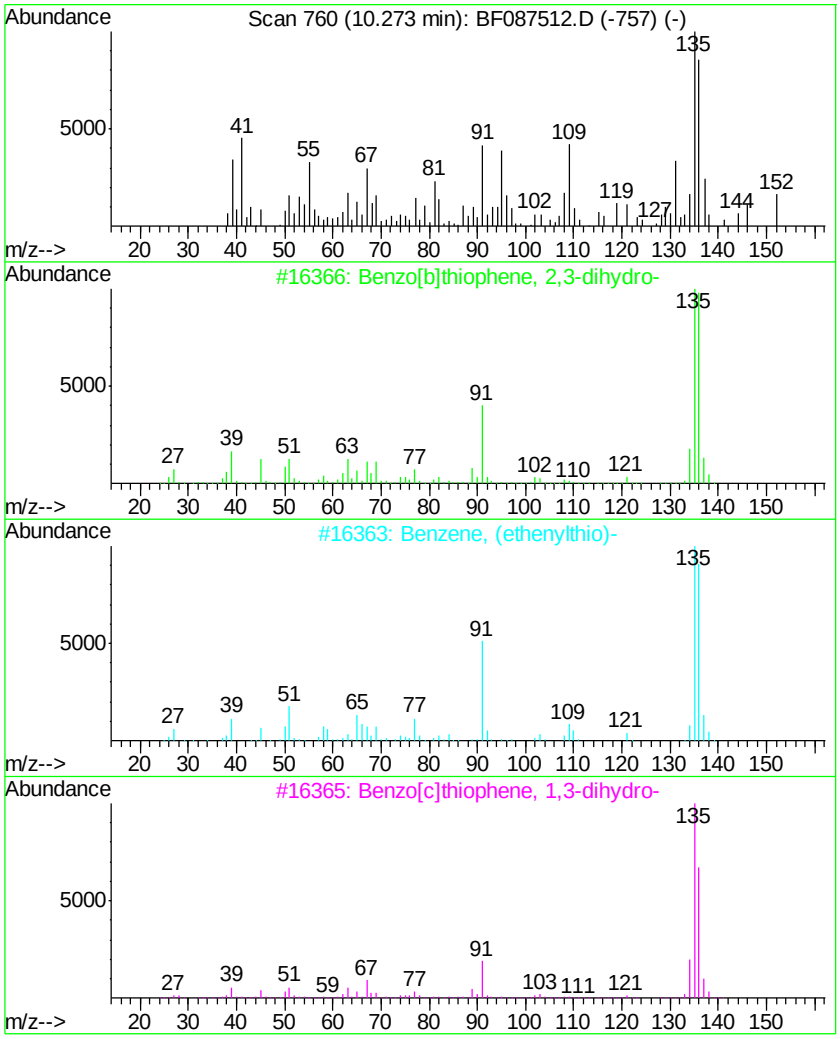
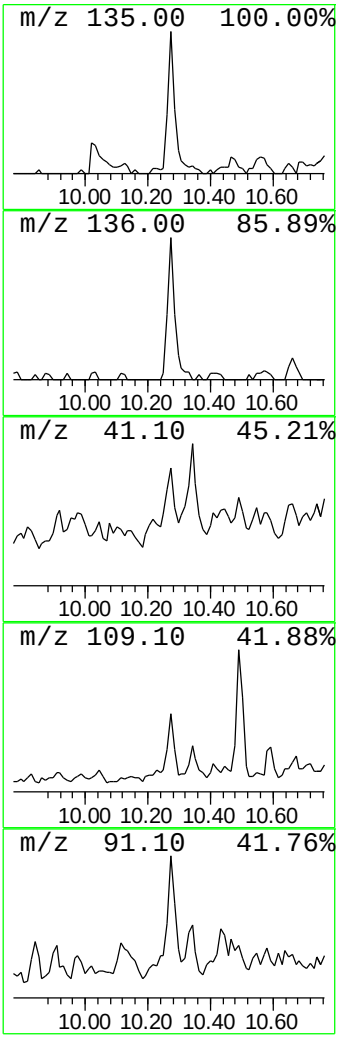
Peak Number 9 Benzo[b]thiophene, 2,3-dihy... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.27 | 3.40 ng | 229601 | Naphthalene-d8 | 9.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]thiophene, 2,3-dihydro- | 136 | C8H8S | 004565-32-6 | 55 |
| 2 | Benzene, (ethenylthio)- | 136 | C8H8S | 001822-73-7 | 55 |
| 3 | Benzo[c]thiophene, 1,3-dihydro- | 136 | C8H8S | 002471-92-3 | 45 |
| 4 | Pyrazine, 2,6-diethyl- | 136 | C8H12N2 | 013067-27-1 | 45 |
| 5 | 4-Hydroxy-2-methylbenzaldehyde | 136 | C8H8O2 | 041438-18-0 | 45 |



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Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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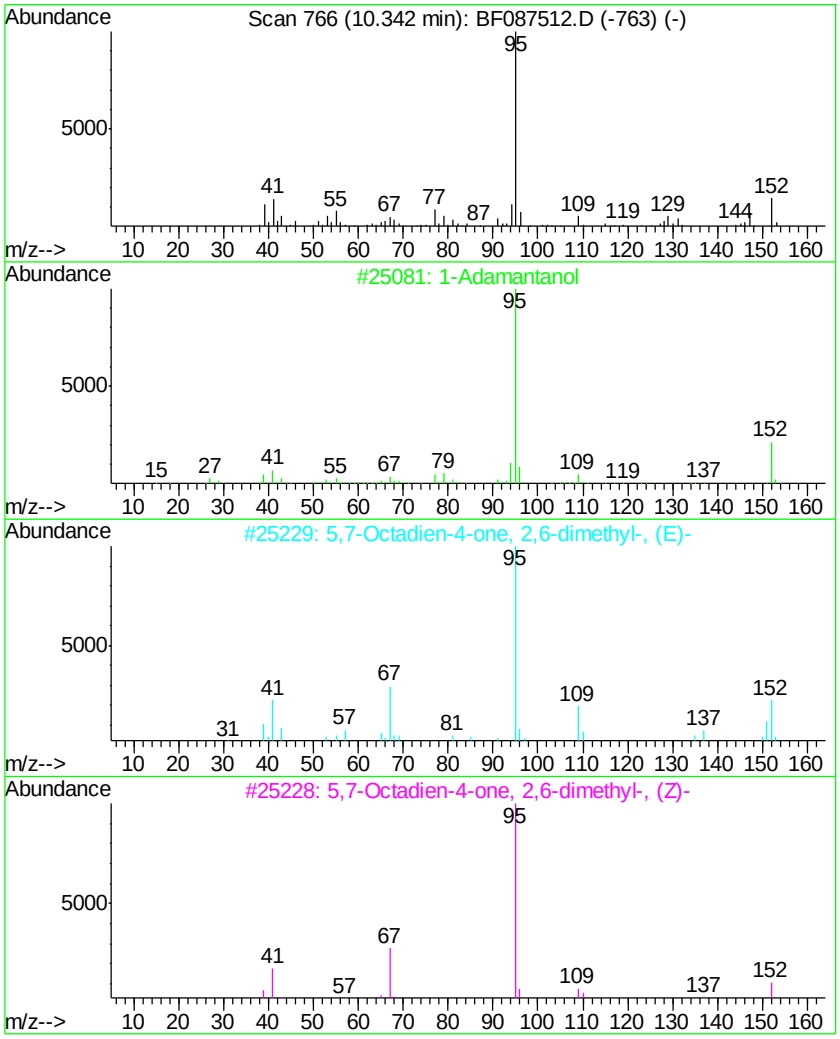
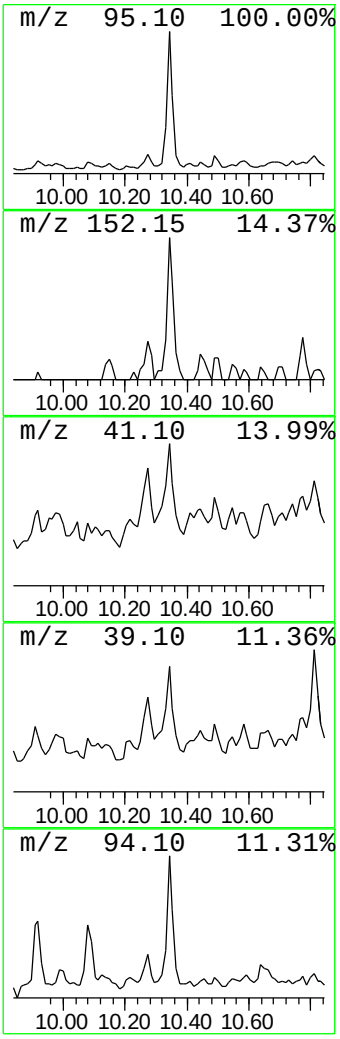
Peak Number 10 1-Adamantanol Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.34 | 3.92 ng | 264514 | Naphthalene-d8 | 9.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Adamantanol | 152 | C10H16O | 000768-95-6 | 87 |
| 2 | 5,7-Octadien-4-one, 2,6-dimethyl... | 152 | C10H16O | 006752-80-3 | 64 |
| 3 | 5,7-Octadien-4-one, 2,6-dimethyl... | 152 | C10H16O | 003588-18-9 | 53 |
| 4 | 4-Pyridinol | 95 | C5H5NO | 000626-64-2 | 50 |
| 5 | Furan, 2-ethyl-5-methyl- | 110 | C7H10O | 001703-52-2 | 33 |



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Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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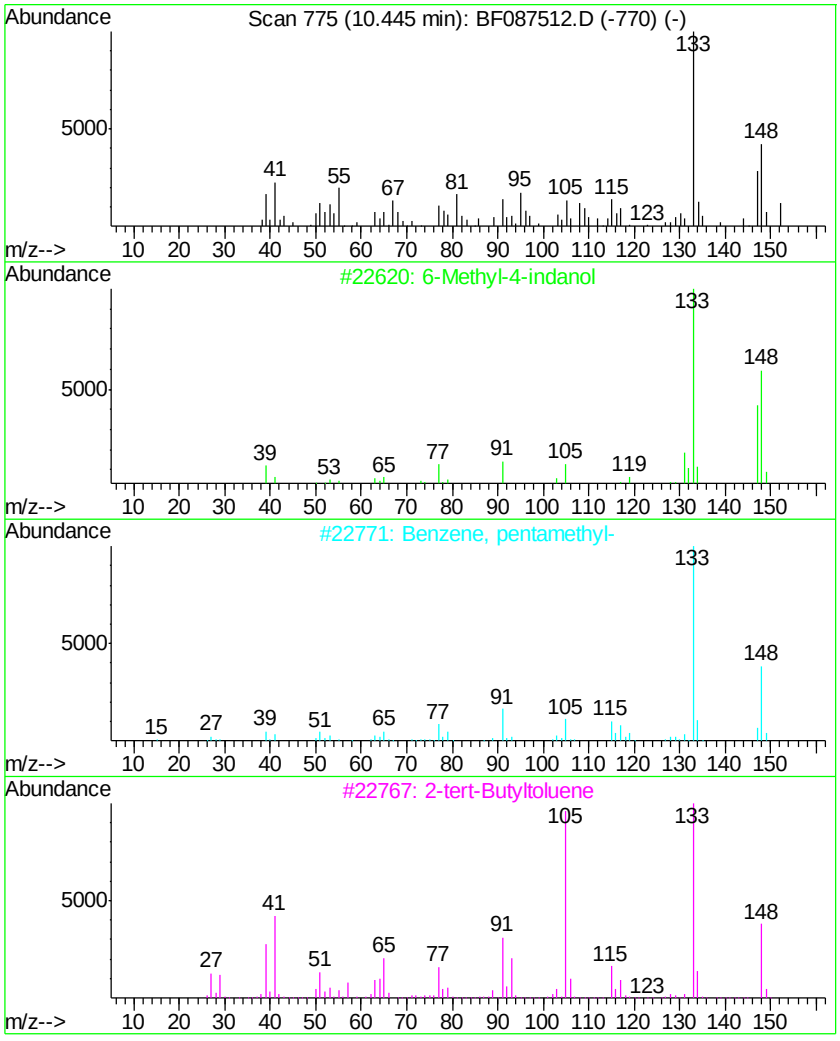
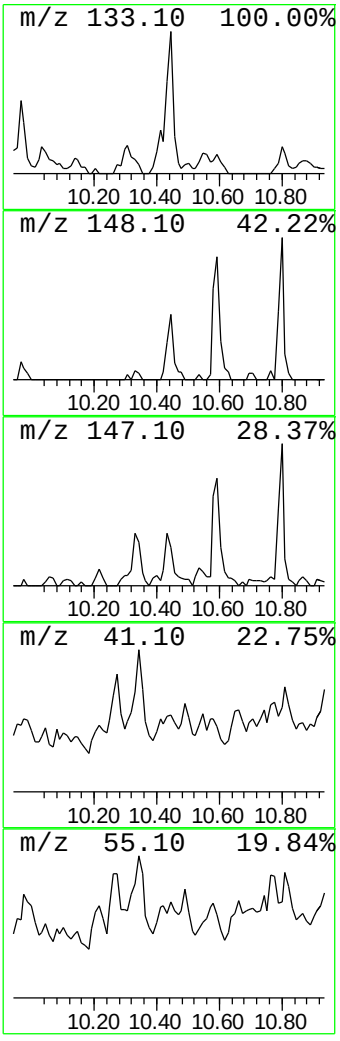
Peak Number 11 6-Methyl-4-indanol Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.44 | 2.38 ng | 160656 | Naphthalene-d8 | 9.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Methyl-4-indanol | 148 | C10H12O | 020294-32-0 | 76 |
| 2 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 70 |
| 3 | 2-tert-Butyltoluene | 148 | C11H16 | 001074-92-6 | 64 |
| 4 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 58 |
| 5 | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16 | 017851-27-3 | 52 |



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Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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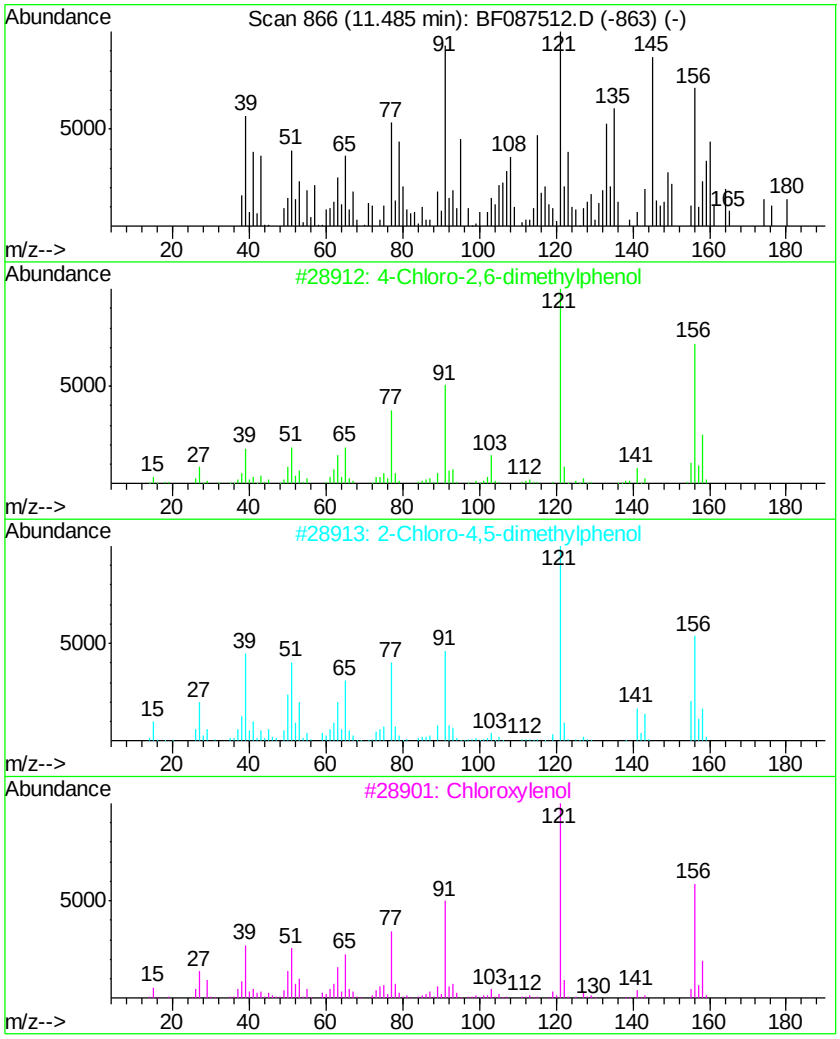
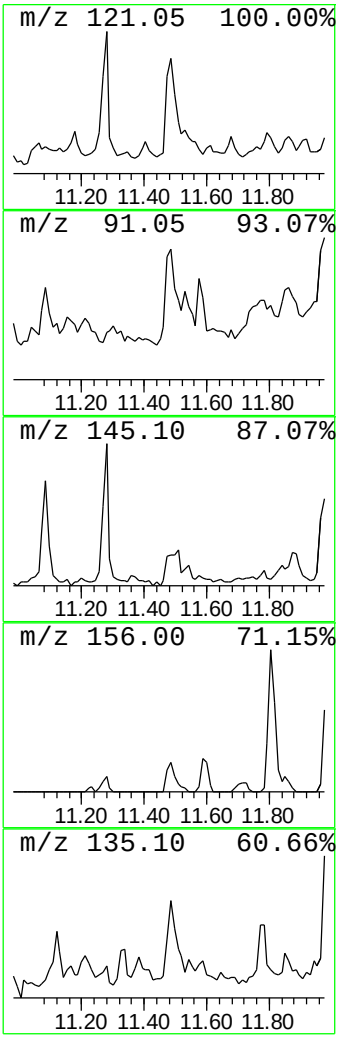
Peak Number 12 unknown11.48 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.48 | 2.76 ng | 158041 | Acenaphthene-d10 | 12.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chloro-2,6-dimethylphenol | 156 | C8H9ClO | 001123-63-3 | 40 |
| 2 | 2-Chloro-4,5-dimethylphenol | 156 | C8H9ClO | 001124-04-5 | 38 |
| 3 | Chloroxylenol | 156 | C8H9ClO | 000088-04-0 | 25 |
| 4 | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16 | 054340-85-1 | 25 |
| 5 | 1H-Benzimidazole, 2-(1-methyleth... | 160 | C10H12N2 | 005851-43-4 | 25 |



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Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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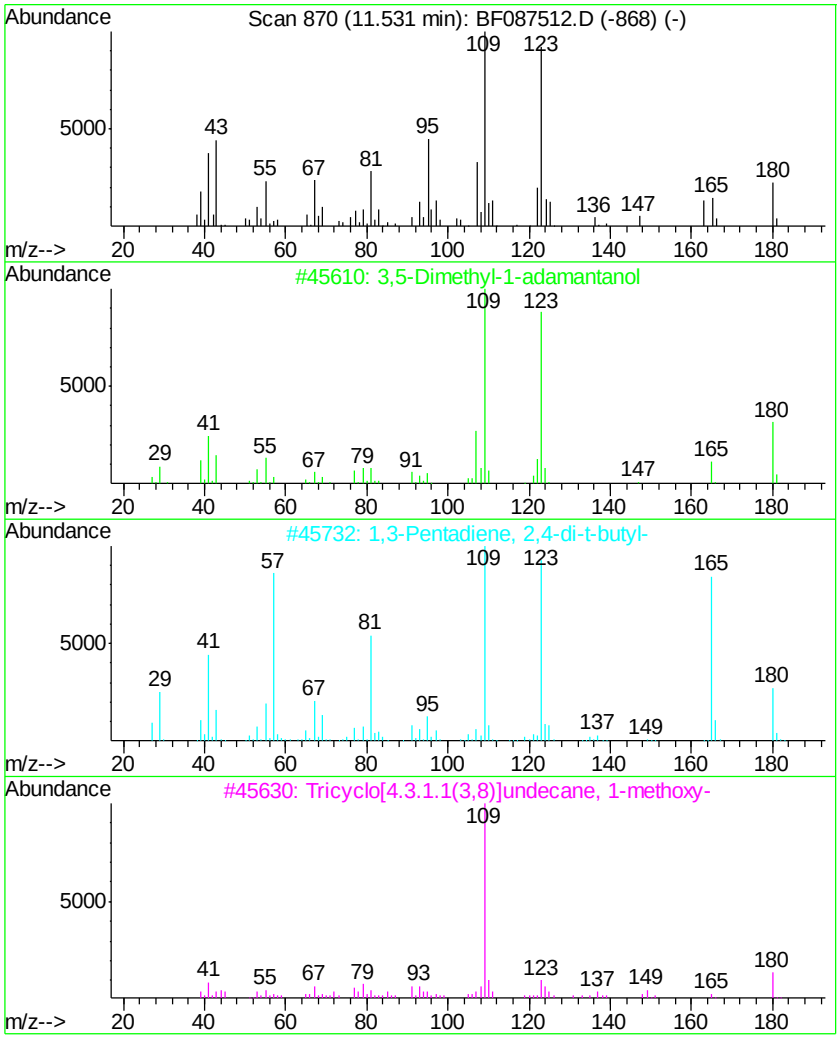
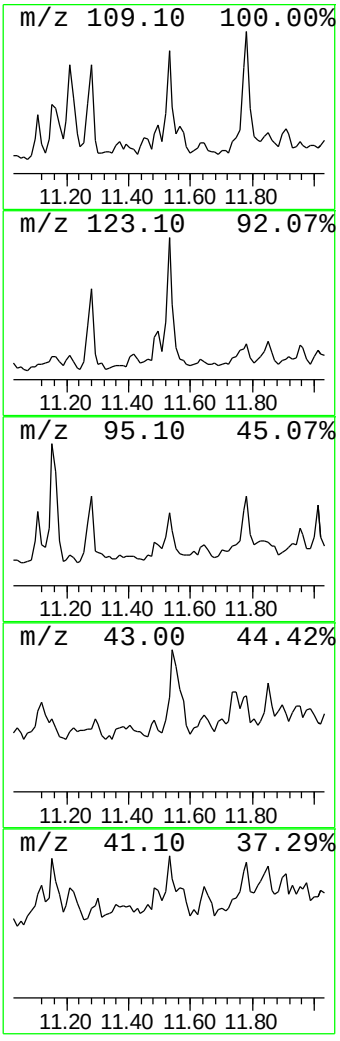
Peak Number 13 3,5-Dimethyl-1-adamantanol Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.53 | 2.77 ng | 158415 | Acenaphthene-d10 | 12.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Dimethyl-1-adamantanol | 180 | C12H20O | 000707-37-9 | 68 |
| 2 | 1,3-Pentadiene, 2,4-di-t-butyl- | 180 | C13H24 | 132850-21-6 | 62 |
| 3 | Tricyclo[4.3.1.1(3,8)]undecane, ... | 180 | C12H20O | 021898-95-3 | 38 |
| 4 | Methyl 4-fluorobenzoate | 154 | C8H7FO2 | 000403-33-8 | 35 |
| 5 | 4-Fluorobenzoic acid, 2-ethylcyc... | 250 | C15H19FO2 | 1000279-06-0 | 35 |



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Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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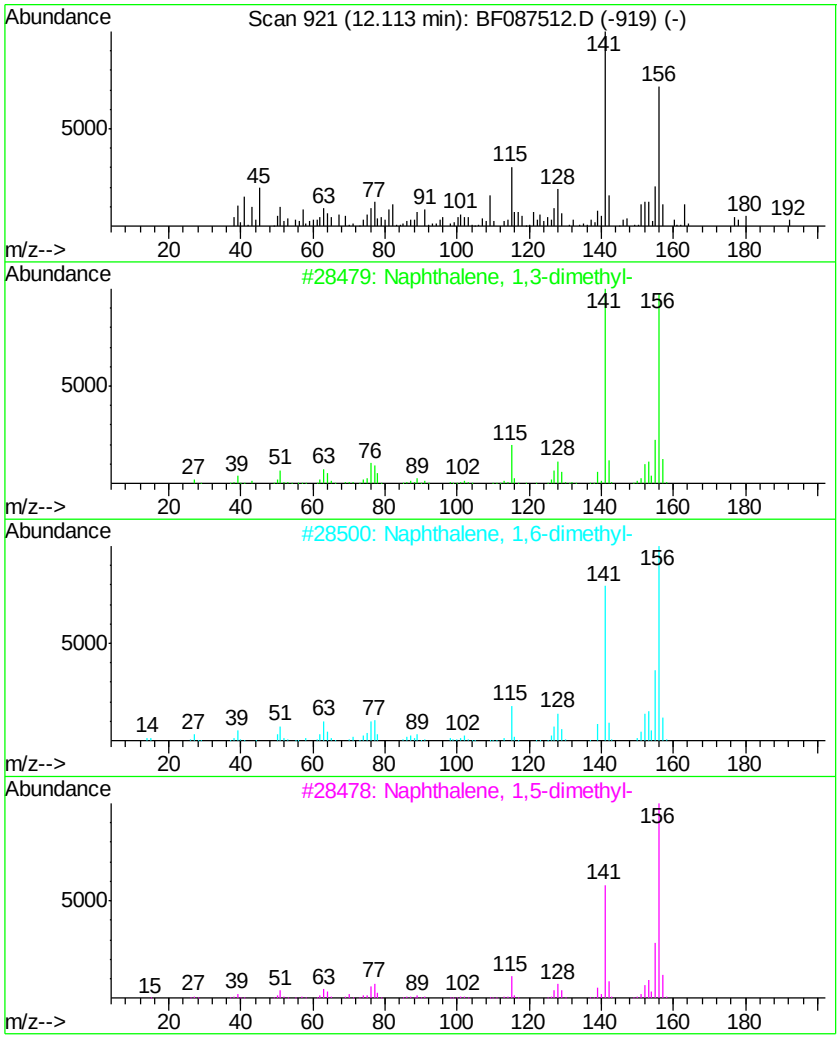
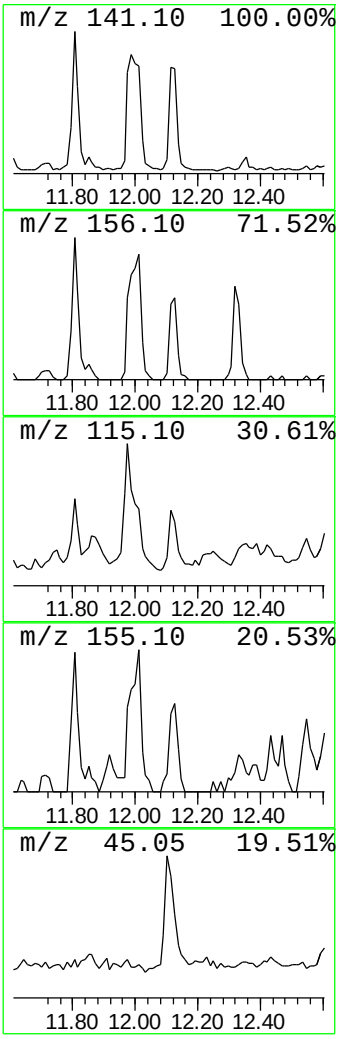
Peak Number 14 Naphthalene, 1,3-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.11 | 3.17 ng | 181439 | Acenaphthene-d10 | 12.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 95 |
| 3 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 95 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 94 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 94 |



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Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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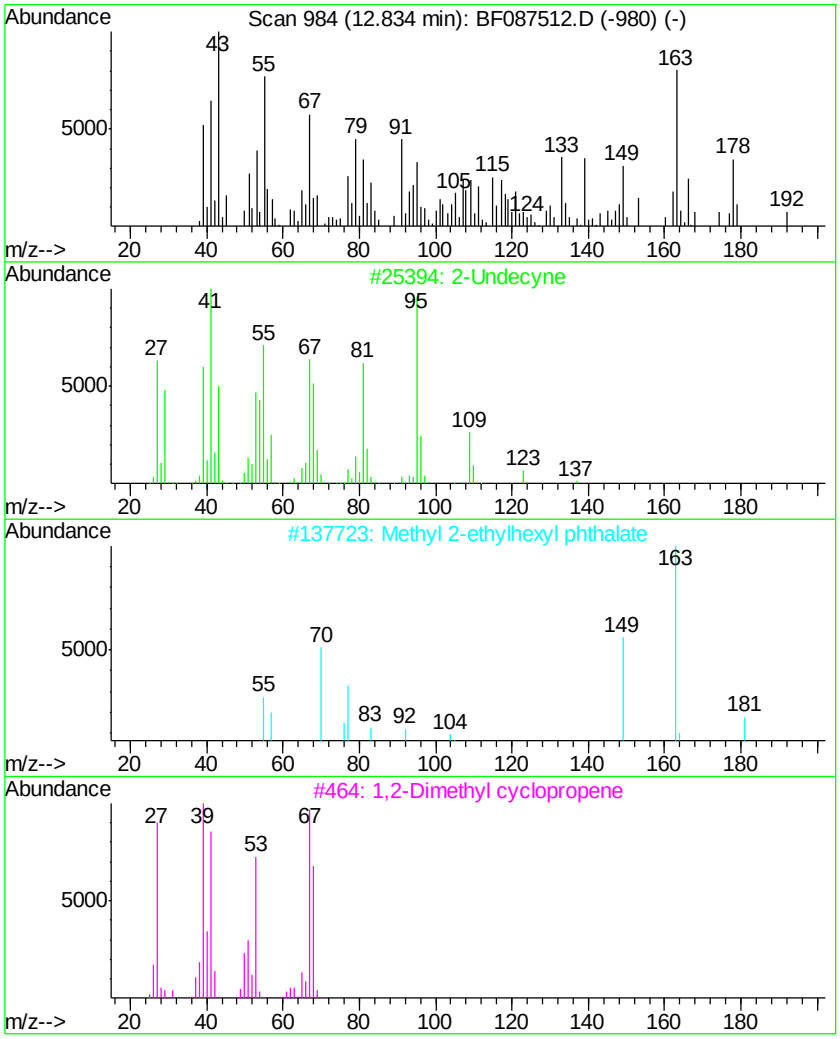
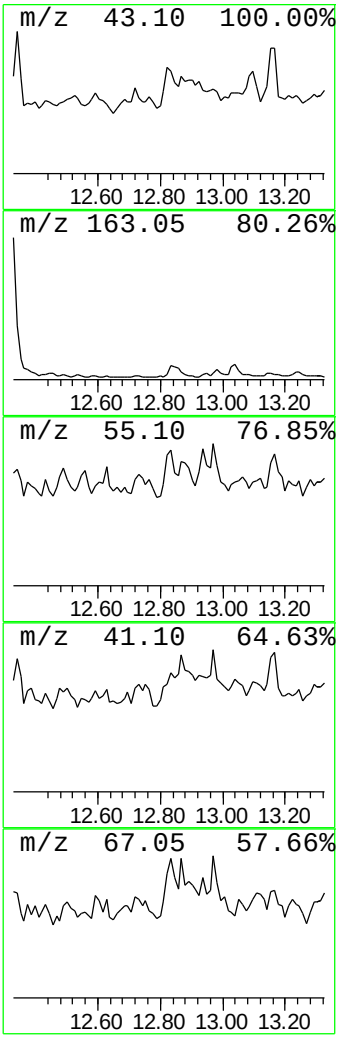
Peak Number 15 unknown12.83 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.83 | 2.29 ng | 131129 | Acenaphthene-d10 | 12.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Undecyne | 152 | C11H20 | 060212-29-5 | 35 |
| 2 | Methyl 2-ethylhexyl phthalate | 292 | C17H24O4 | 056166-83-7 | 27 |
| 3 | 1,2-Dimethyl cyclopropene | 68 | C5H8 | 014309-32-1 | 27 |
| 4 | 3-Cyclopropenoic acid,1-butyl, m... | 154 | C9H14O2 | 067500-40-7 | 27 |
| 5 | Pyridine, 2,6-epidioxy-5-ethyl-3... | 178 | C9H10N2O2 | 1000263-31-1 | 25 |



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Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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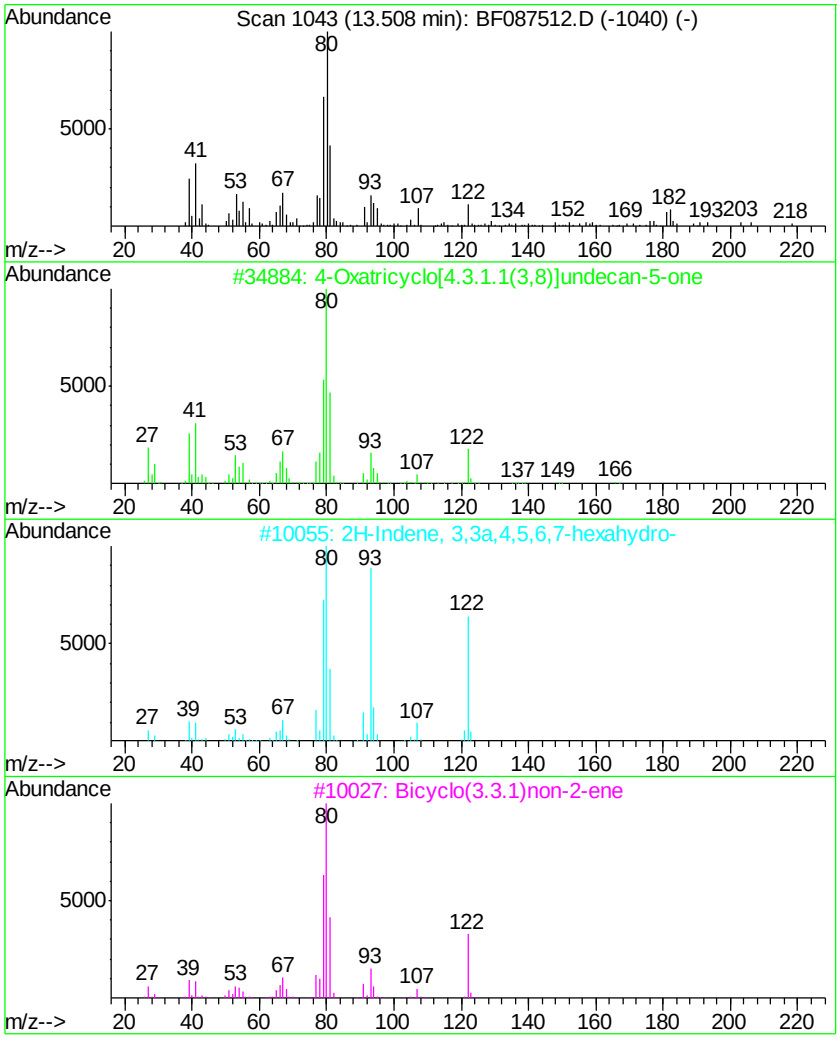
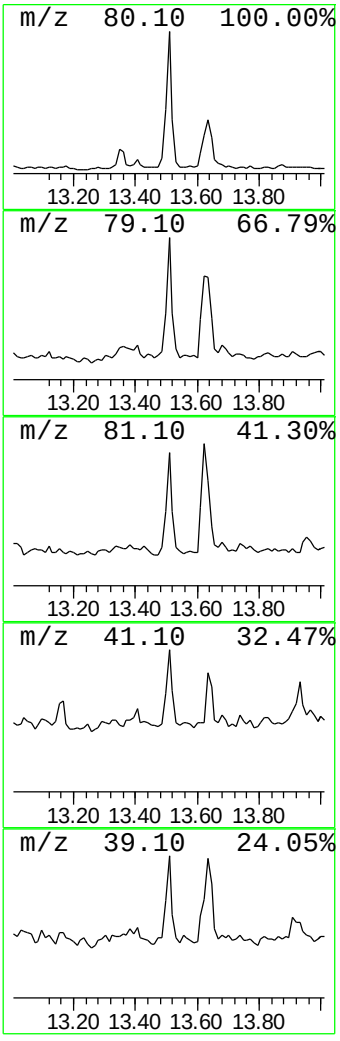
Peak Number 16 4-Oxatricyclo[4.3.1.1(3,8)]... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.51 | 4.00 ng | 228670 | Acenaphthene-d10 | 12.32 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Oxatricyclo[4.3.1.1(3,8)]undec... | 166 | C10H14O2 | 021898-84-0 | 91 |
| 2 | 2H-Indene, 3,3a,4,5,6,7-hexahydro- | 122 | C9H14 | 016189-41-6 | 90 |
| 3 | Bicyclo(3.3.1)non-2-ene | 122 | C9H14 | 006671-66-5 | 90 |
| 4 | Bicyclo[2.2.2]oct-5-en-2-one | 122 | C8H10O | 002220-40-8 | 86 |
| 5 | Bicyclo[3.3.1]nonan-3-ol, endo- | 140 | C9H16O | 010036-10-9 | 86 |



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Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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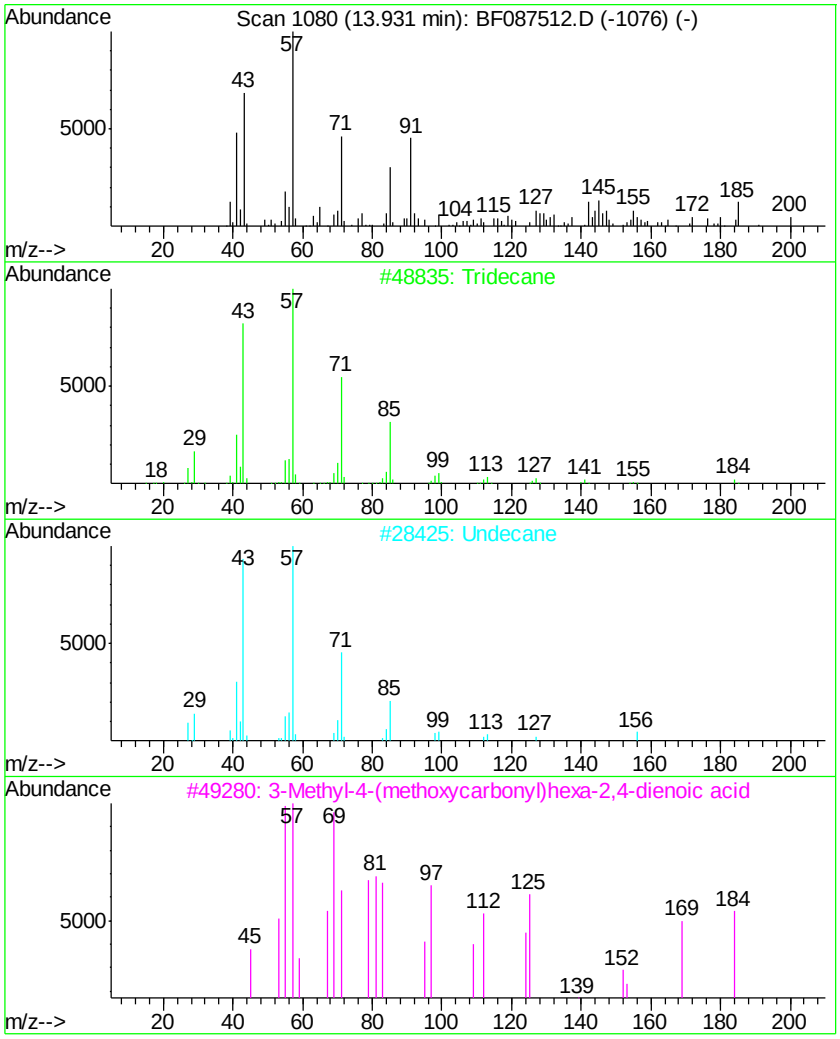
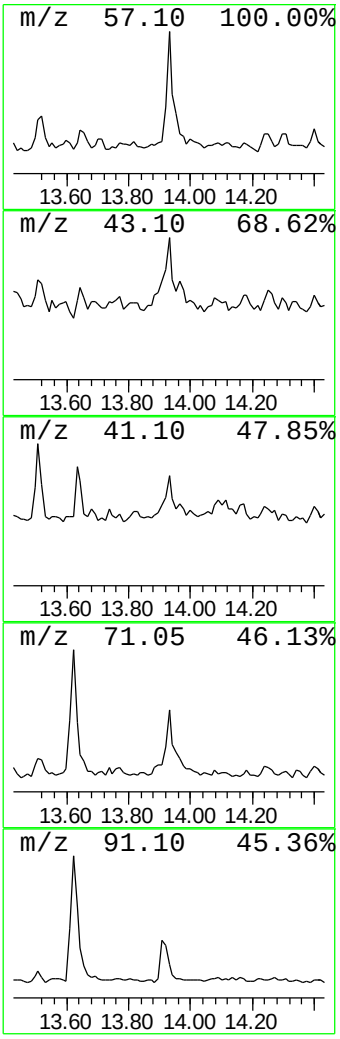
Peak Number 17 Tridecane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.93 | 4.30 ng | 215223 | Phenanthrene-d10 | 14.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 64 |
| 2 | Undecane | 156 | C11H24 | 001120-21-4 | 55 |
| 3 | 3-Methyl-4-(methoxycarbonyl)hexa... | 184 | C9H12O4 | 1000104-10-8 | 50 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 49 |
| 5 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 49 |



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Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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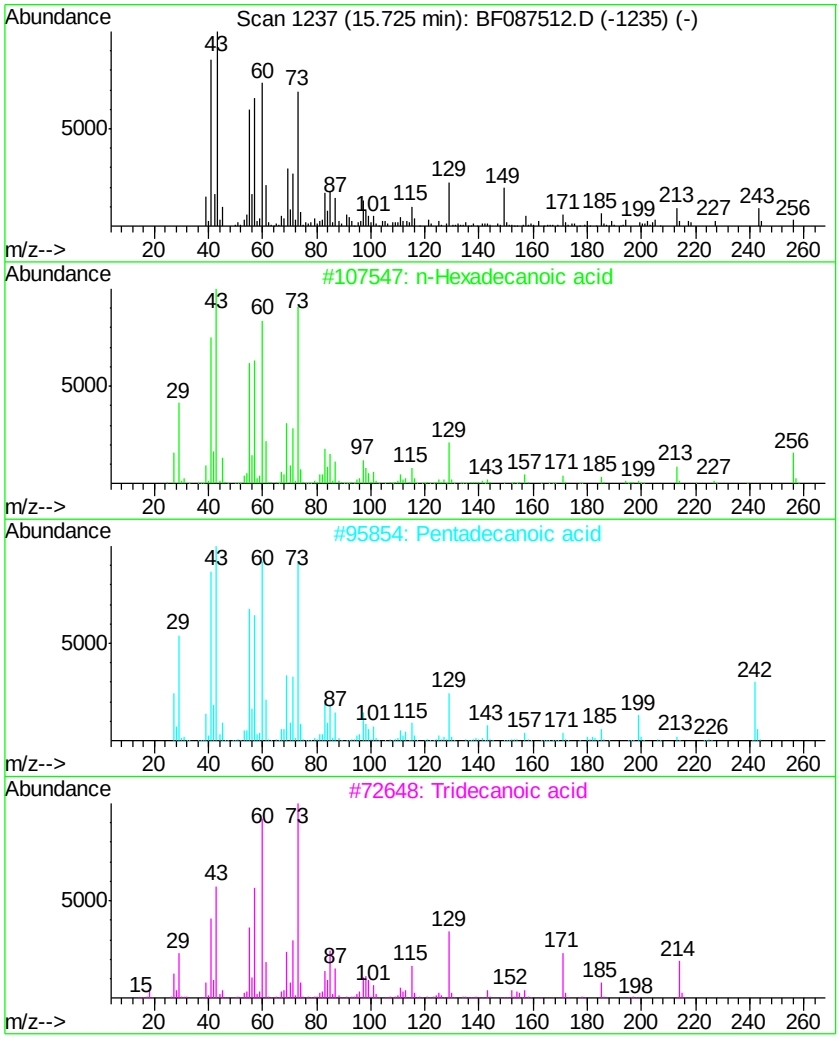
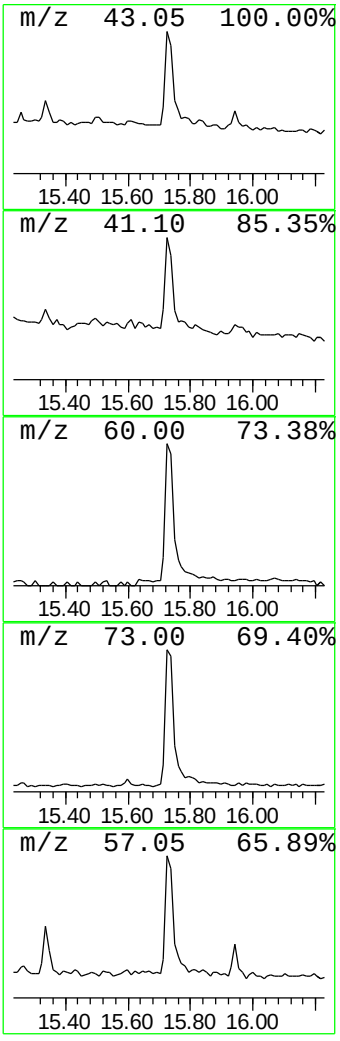
Peak Number 18 n-Hexadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.73 | 5.38 ng | 269496 | Phenanthrene-d10 | 14.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 83 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 76 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 5 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 64 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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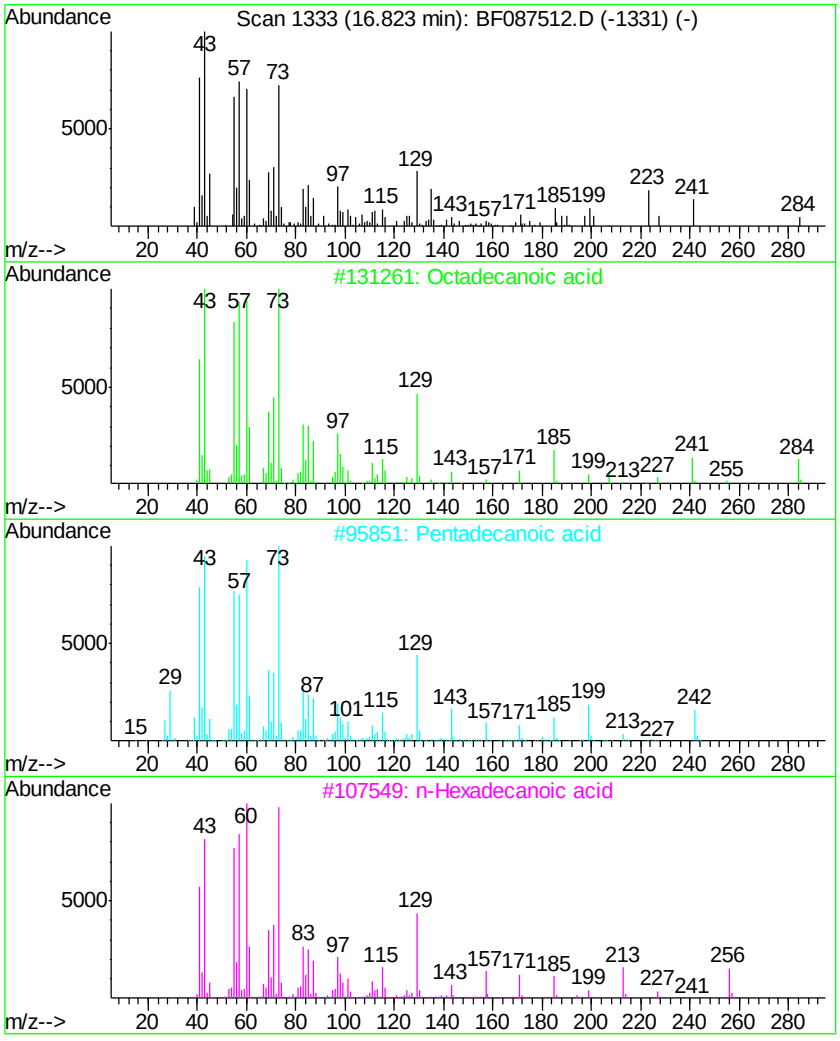
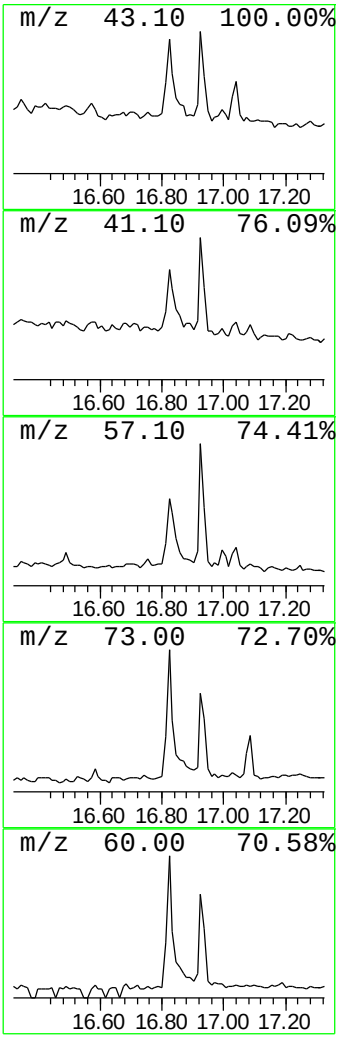
Peak Number 19 Octadecanoic acid Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.82 | 3.52 ng | 146088 | Chrysene-d12 | 18.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 68 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 58 |
| 3 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 53 |
| 4 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 46 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 43 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

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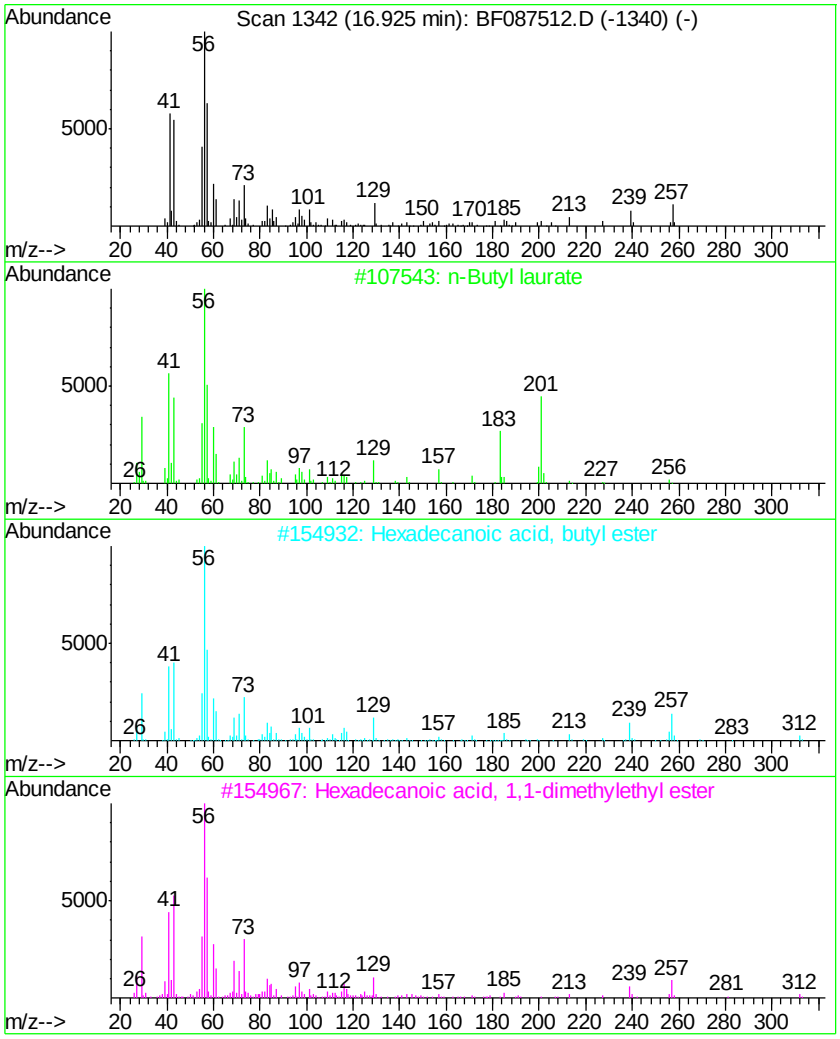
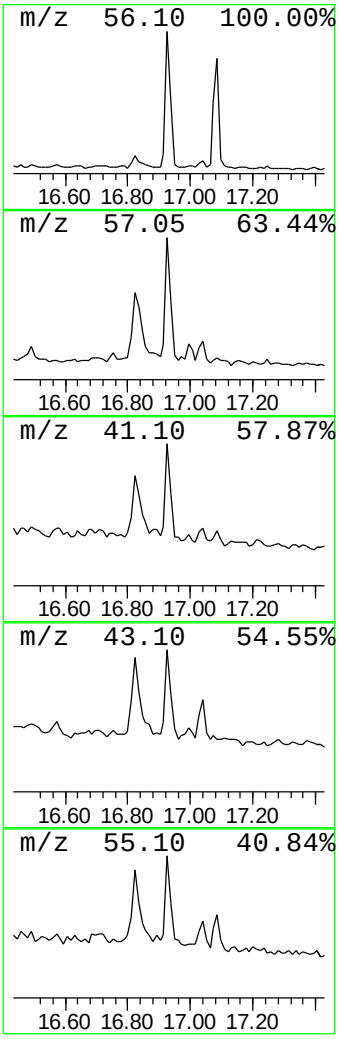
Peak Number 20 n-Butyl laurate Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.93 | 2.86 ng | 118544 | Chrysene-d12 | 18.43 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Butyl laurate | 256 | C16H32O2 | 000106-18-3 | 91 |
| 2 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 91 |
| 3 | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 58 |
| 4 | Cyclopentanecarboxylic acid, 2-a... | 129 | C6H11NO2 | 040482-05-1 | 43 |
| 5 | 1-Hexene, 3,4-dimethyl- | 112 | C8H16 | 016745-94-1 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052816\
Data File : BF087512.D
Acq On : 29 May 2016 10:00
Operator : UM/SJ
Sample : H3222-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-10

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown7.12 | 7.12 | 75.3 | ng | 3269150 | 1 | 7.47 | 867807 | 20.0 |
| Benzene, 1,3-diet... | 7.88 | 5.2 | ng | 225066 | 1 | 7.47 | 867807 | 20.0 |
| Benzene, 1,2-diet... | 8.02 | 6.8 | ng | 295452 | 1 | 7.47 | 867807 | 20.0 |
| Benzene, 2-butenyl- | 8.32 | 3.0 | ng | 128553 | 1 | 7.47 | 867807 | 20.0 |
| Benzene, 1-ethyl-... | 8.72 | 2.1 | ng | 144896 | 2 | 9.50 | 1349610 | 20.0 |
| 1-Phenyl-1-butene | 8.99 | 3.2 | ng | 217552 | 2 | 9.50 | 1349610 | 20.0 |
| Benzene, (2-methy... | 9.60 | 3.2 | ng | 218778 | 2 | 9.50 | 1349610 | 20.0 |
| Benzo[b]thiophene... | 10.27 | 3.4 | ng | 229601 | 2 | 9.50 | 1349610 | 20.0 |
| 1-Adamantanol | 10.34 | 3.9 | ng | 264514 | 2 | 9.50 | 1349610 | 20.0 |
| 6-Methyl-4-indanol | 10.44 | 2.4 | ng | 160656 | 2 | 9.50 | 1349610 | 20.0 |
| unknown11.48 | 11.48 | 2.8 | ng | 158041 | 3 | 12.32 | 1144030 | 20.0 |
| 3,5-Dimethyl-1-ad... | 11.53 | 2.8 | ng | 158415 | 3 | 12.32 | 1144030 | 20.0 |
| Naphthalene, 1,3-... | 12.11 | 3.2 | ng | 181439 | 3 | 12.32 | 1144030 | 20.0 |
| unknown12.83 | 12.83 | 2.3 | ng | 131129 | 3 | 12.32 | 1144030 | 20.0 |
| 4-Oxatricyclo[4.3... | 13.51 | 4.0 | ng | 228670 | 3 | 12.32 | 1144030 | 20.0 |
| Tridecane | 13.93 | 4.3 | ng | 215223 | 4 | 14.73 | 1001880 | 20.0 |
| n-Hexadecanoic acid | 15.73 | 5.4 | ng | 269496 | 4 | 14.73 | 1001880 | 20.0 |
| Octadecanoic acid | 16.82 | 3.5 | ng | 146088 | 5 | 18.43 | 829826 | 20.0 |
| n-Butyl laurate | 16.93 | 2.9 | ng | 118544 | 5 | 18.43 | 829826 | 20.0 |