LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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 | 3.943 | 262 | 273 | 289 | rBV2 | 35083 | 214364 | 7.22% | 0.988% |
| 2 | 4.084 | 291 | 297 | 312 | rVB5 | 12612 | 60560 | 2.04% | 0.279% |
| 3 | 5.525 | 539 | 542 | 549 | rVB2 | 25047 | 36675 | 1.23% | 0.169% |
| 4 | 5.584 | 549 | 552 | 563 | rVB | 73185 | 95714 | 3.22% | 0.441% |
| 5 | 5.837 | 592 | 595 | 603 | rVB | 68168 | 68315 | 2.30% | 0.315% |
| 6 | 6.178 | 648 | 653 | 657 | rBV2 | 47109 | 90309 | 3.04% | 0.416% |
| 7 | 6.372 | 681 | 686 | 689 | rBV3 | 30365 | 52166 | 1.76% | 0.240% |
| 8 | 6.407 | 689 | 692 | 693 | rVV2 | 33955 | 32225 | 1.09% | 0.148% |
| 9 | 6.425 | 693 | 695 | 698 | rVB | 60389 | 53192 | 1.79% | 0.245% |
| 10 | 6.466 | 698 | 702 | 706 | rBV3 | 127658 | 171377 | 5.77% | 0.790% |
| 11 | 6.519 | 709 | 711 | 713 | rVV | 62885 | 46823 | 1.58% | 0.216% |
| 12 | 6.542 | 713 | 715 | 719 | rVB | 54965 | 46376 | 1.56% | 0.214% |
| 13 | 6.595 | 719 | 724 | 728 | rBV2 | 98905 | 150217 | 5.06% | 0.692% |
| 14 | 6.625 | 728 | 729 | 734 | rVB3 | 35823 | 39696 | 1.34% | 0.183% |
| 15 | 6.678 | 734 | 738 | 742 | rBV4 | 43679 | 65964 | 2.22% | 0.304% |
| 16 | 6.725 | 742 | 746 | 750 | rVB2 | 144953 | 149827 | 5.04% | 0.690% |
| 17 | 6.766 | 750 | 753 | 757 | rBV | 685264 | 586886 | 19.76% | 2.704% |
| 18 | 6.895 | 772 | 775 | 776 | rBV | 56282 | 51765 | 1.74% | 0.238% |
| 19 | 6.942 | 779 | 783 | 786 | rBV2 | 371314 | 377418 | 12.71% | 1.739% |
| 20 | 7.019 | 789 | 796 | 799 | rBV | 1899157 | 2969833 | 100.00% | 13.682% |
| 21 | 7.078 | 804 | 806 | 809 | rVV3 | 189588 | 251787 | 8.48% | 1.160% |
| 22 | 7.101 | 809 | 810 | 818 | rVB3 | 171025 | 211886 | 7.13% | 0.976% |
| 23 | 7.160 | 818 | 820 | 822 | rBV | 47606 | 35779 | 1.20% | 0.165% |
| 24 | 7.207 | 822 | 828 | 831 | rBV3 | 217588 | 313068 | 10.54% | 1.442% |
| 25 | 7.231 | 831 | 832 | 834 | rVB | 109797 | 69493 | 2.34% | 0.320% |
| 26 | 7.260 | 834 | 837 | 843 | rVB2 | 319918 | 373542 | 12.58% | 1.721% |
| 27 | 7.313 | 843 | 846 | 848 | rBV | 211710 | 186314 | 6.27% | 0.858% |
| 28 | 7.336 | 848 | 850 | 852 | rVB2 | 126092 | 96629 | 3.25% | 0.445% |
| 29 | 7.360 | 852 | 854 | 859 | rVB4 | 54875 | 80350 | 2.71% | 0.370% |
| 30 | 7.407 | 859 | 862 | 864 | rBV2 | 180413 | 215446 | 7.25% | 0.993% |
| 31 | 7.425 | 864 | 865 | 868 | rVB | 113662 | 84180 | 2.83% | 0.388% |
| 32 | 7.472 | 868 | 873 | 877 | rBV2 | 323685 | 395670 | 13.32% | 1.823% |
| 33 | 7.531 | 877 | 883 | 886 | rVB | 1089269 | 1244865 | 41.92% | 5.735% |
| 34 | 7.584 | 889 | 892 | 895 | rVB3 | 204356 | 216492 | 7.29% | 0.997% |

LSC Area Percent Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.631 | 895 | 900 | 906 | rBV4 | 255392 | 439387 | 14.80% | 2.024% |
| 36 | 7.678 | 906 | 908 | 911 | rBV4 | 38570 | 42701 | 1.44% | 0.197% |
| 37 | 7.707 | 911 | 913 | 916 | rBV | 233584 | 197243 | 6.64% | 0.909% |
| 38 | 7.736 | 916 | 918 | 925 | rVB3 | 257163 | 449408 | 15.13% | 2.070% |
| 39 | 7.836 | 927 | 935 | 938 | rBV4 | 269842 | 447555 | 15.07% | 2.062% |
| 40 | 7.872 | 938 | 941 | 943 | rBV2 | 198569 | 253362 | 8.53% | 1.167% |
| 41 | 7.895 | 943 | 945 | 948 | rVB2 | 281919 | 251349 | 8.46% | 1.158% |
| 42 | 7.925 | 948 | 950 | 954 | rBV3 | 173014 | 206694 | 6.96% | 0.952% |
| 43 | 7.960 | 954 | 956 | 959 | rBV2 | 545617 | 514200 | 17.31% | 2.369% |
| 44 | 7.989 | 959 | 961 | 962 | rVB | 93624 | 53758 | 1.81% | 0.248% |
| 45 | 8.007 | 962 | 964 | 966 | rVB | 243513 | 166865 | 5.62% | 0.769% |
| 46 | 8.036 | 966 | 969 | 972 | rVB2 | 183307 | 209371 | 7.05% | 0.965% |
| 47 | 8.066 | 972 | 974 | 976 | rBV | 221763 | 171564 | 5.78% | 0.790% |
| 48 | 8.089 | 976 | 978 | 981 | rVB | 212770 | 187159 | 6.30% | 0.862% |
| 49 | 8.125 | 981 | 984 | 986 | rBV2 | 131266 | 159682 | 5.38% | 0.736% |
| 50 | 8.172 | 989 | 992 | 993 | rBV2 | 167332 | 125033 | 4.21% | 0.576% |
| 51 | 8.201 | 993 | 997 | 1001 | rBV2 | 1461124 | 1442383 | 48.57% | 6.645% |
| 52 | 8.236 | 1001 | 1003 | 1004 | rBV2 | 308534 | 242481 | 8.16% | 1.117% |
| 53 | 8.254 | 1004 | 1006 | 1007 | rVB2 | 147924 | 102360 | 3.45% | 0.472% |
| 54 | 8.272 | 1007 | 1009 | 1012 | rVB | 851298 | 737360 | 24.83% | 3.397% |
| 55 | 8.313 | 1012 | 1016 | 1021 | rBV5 | 261876 | 392055 | 13.20% | 1.806% |
| 56 | 8.366 | 1023 | 1025 | 1027 | rBV2 | 100668 | 104143 | 3.51% | 0.480% |
| 57 | 8.401 | 1029 | 1031 | 1033 | rVB2 | 89701 | 59401 | 2.00% | 0.274% |
| 58 | 8.425 | 1033 | 1035 | 1038 | rVB2 | 325355 | 265174 | 8.93% | 1.222% |
| 59 | 8.472 | 1040 | 1043 | 1045 | rBV3 | 188081 | 178060 | 6.00% | 0.820% |
| 60 | 8.513 | 1046 | 1050 | 1054 | rVB4 | 452079 | 598460 | 20.15% | 2.757% |
| 61 | 8.554 | 1054 | 1057 | 1058 | rBV2 | 116674 | 121544 | 4.09% | 0.560% |
| 62 | 8.572 | 1058 | 1060 | 1062 | rBV3 | 129563 | 104102 | 3.51% | 0.480% |
| 63 | 8.613 | 1065 | 1067 | 1069 | rVB | 232608 | 151288 | 5.09% | 0.697% |
| 64 | 8.636 | 1069 | 1071 | 1073 | rBV2 | 146467 | 163107 | 5.49% | 0.751% |
| 65 | 8.666 | 1074 | 1076 | 1078 | rBV2 | 112380 | 98707 | 3.32% | 0.455% |
| 66 | 8.730 | 1085 | 1087 | 1090 | rBV | 416777 | 345390 | 11.63% | 1.591% |
| 67 | 8.813 | 1097 | 1101 | 1103 | rBV2 | 390046 | 619691 | 20.87% | 2.855% |
| 68 | 9.054 | 1140 | 1142 | 1144 | rBV | 148814 | 167664 | 5.65% | 0.772% |
| 69 | 9.430 | 1193 | 1206 | 1215 | rBV4 | 468714 | 2801899 | 94.35% | 12.909% |

Sum of corrected areas: 21705803

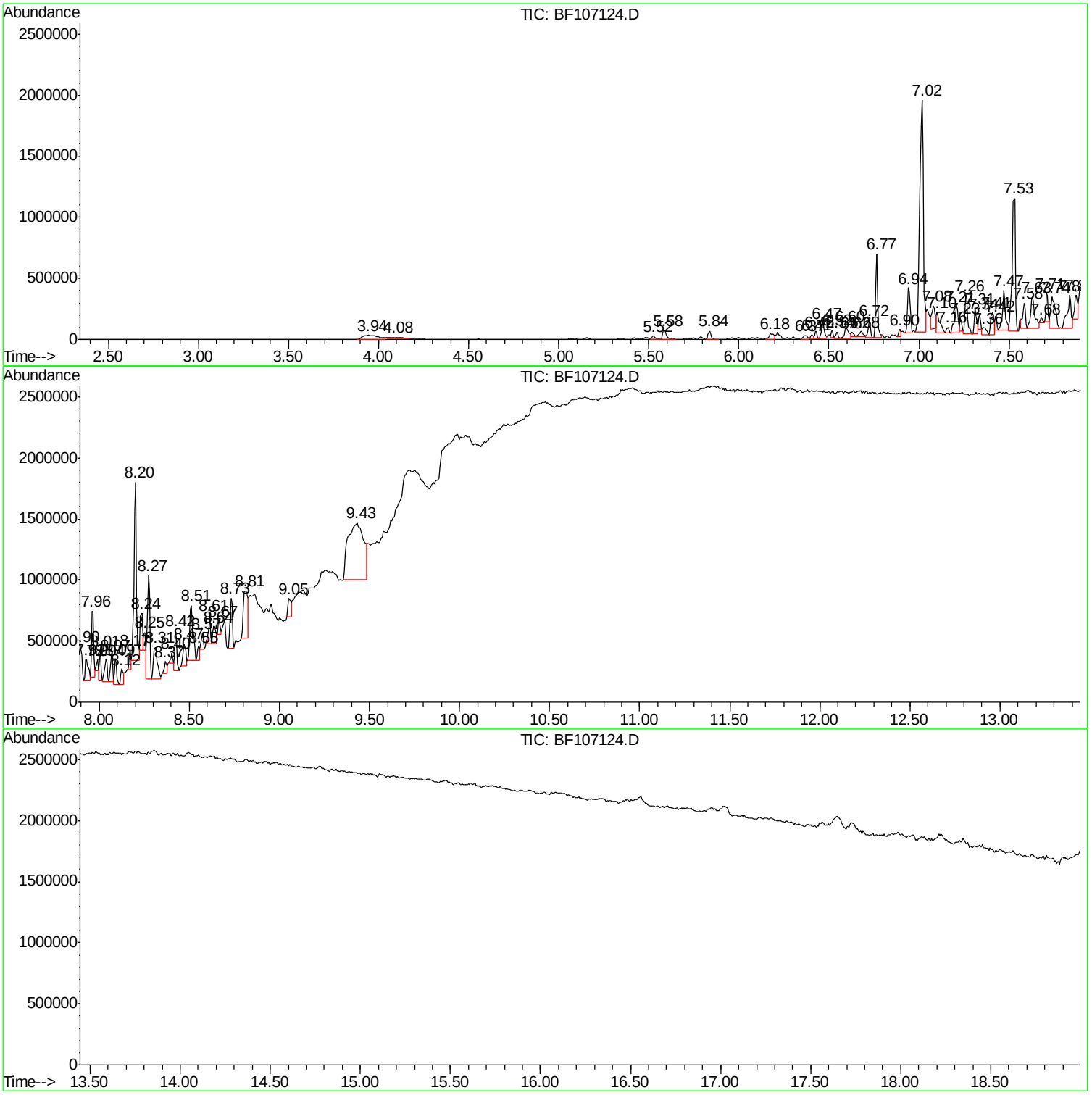
LSC Report - Integrated Chromatogram

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

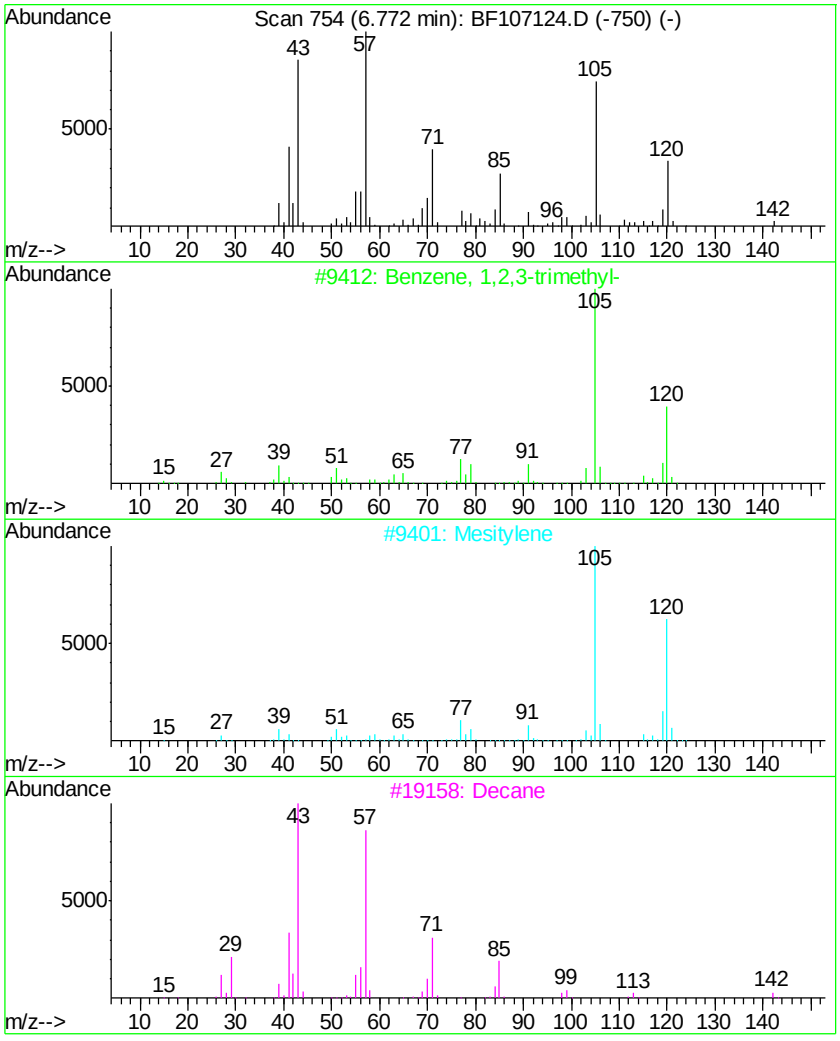
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

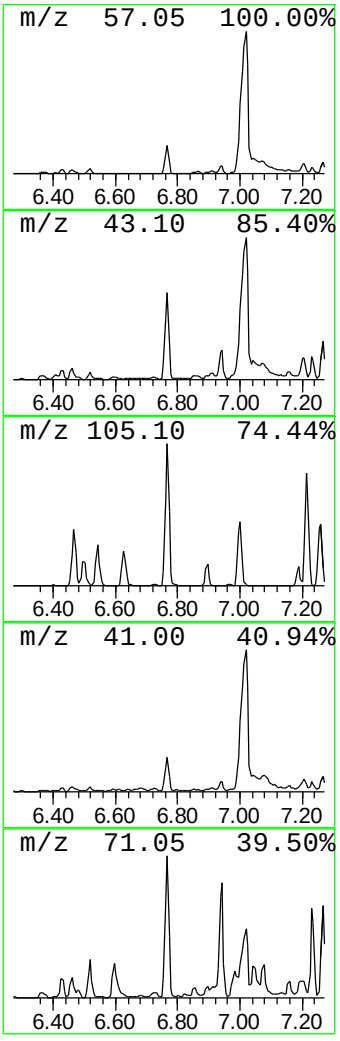
**********

Peak Number 1 Benzene, 1,2,3-trimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.77 | 31.10 ng | 586886 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 64 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 60 |
| 3 | Decane | 142 | C10H22 | 000124-18-5 | 60 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 52 |
| 5 | Octane, 4-ethyl- | 142 | C10H22 | 015869-86-0 | 46 |



# Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

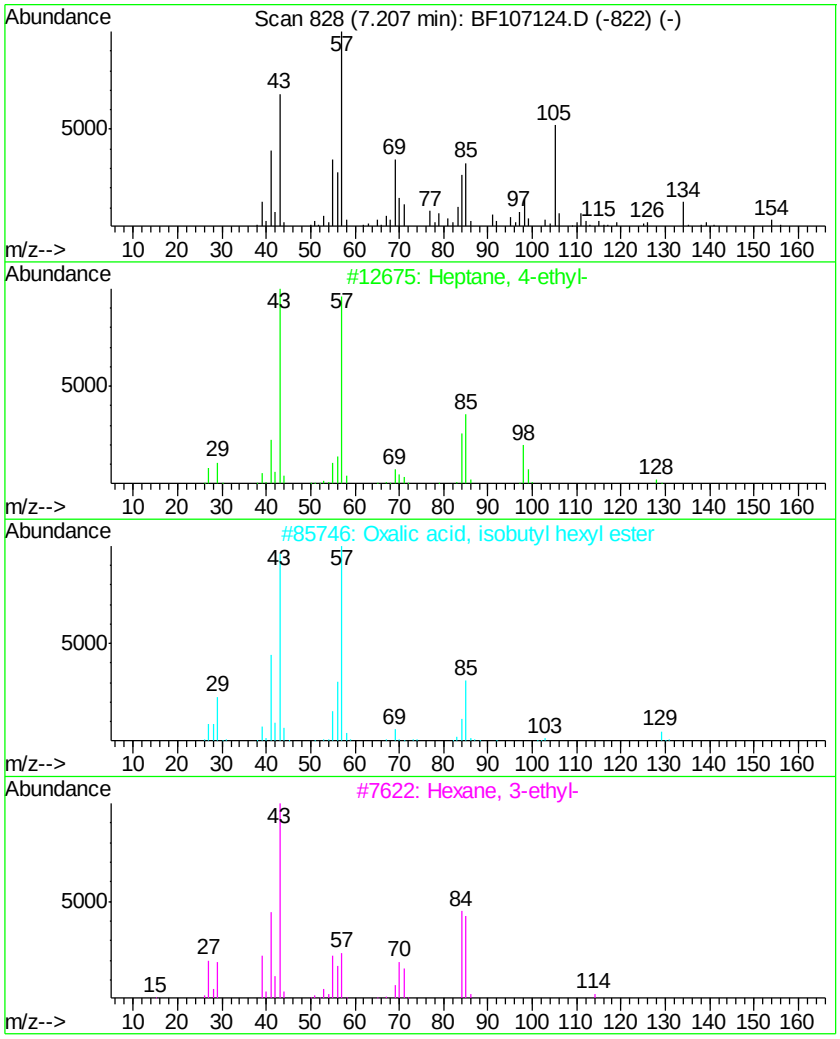
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

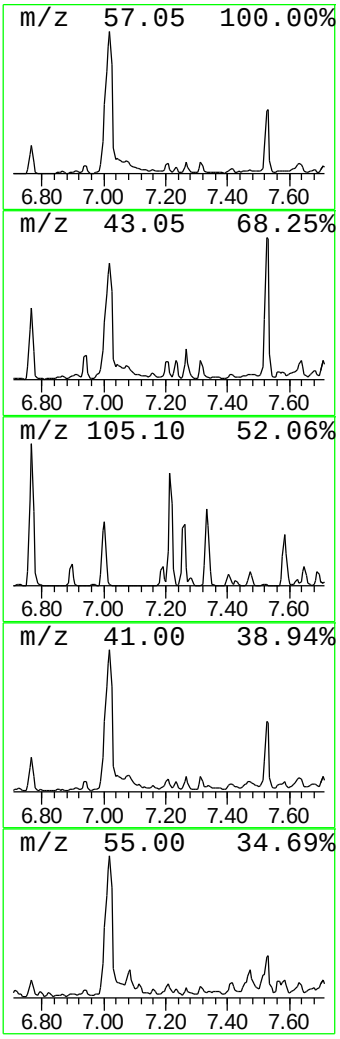
**********

Peak Number 2 Heptane, 4-ethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.21 | 16.59 ng | 313068 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 4-ethyl- | 128 | C9H20 | 002216-32-2 | 50 |
| 2 | Oxalic acid, isobutyl hexyl ester | 230 | C12H22O4 | 1000309-37-1 | 43 |
| 3 | Hexane, 3-ethyl- | 114 | C8H18 | 000619-99-8 | 38 |
| 4 | Decane, 5-methyl- | 156 | C11H24 | 013151-35-4 | 38 |
| 5 | Hexane, 2,2,3,3-tetramethyl- | 142 | C10H22 | 013475-81-5 | 38 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-3

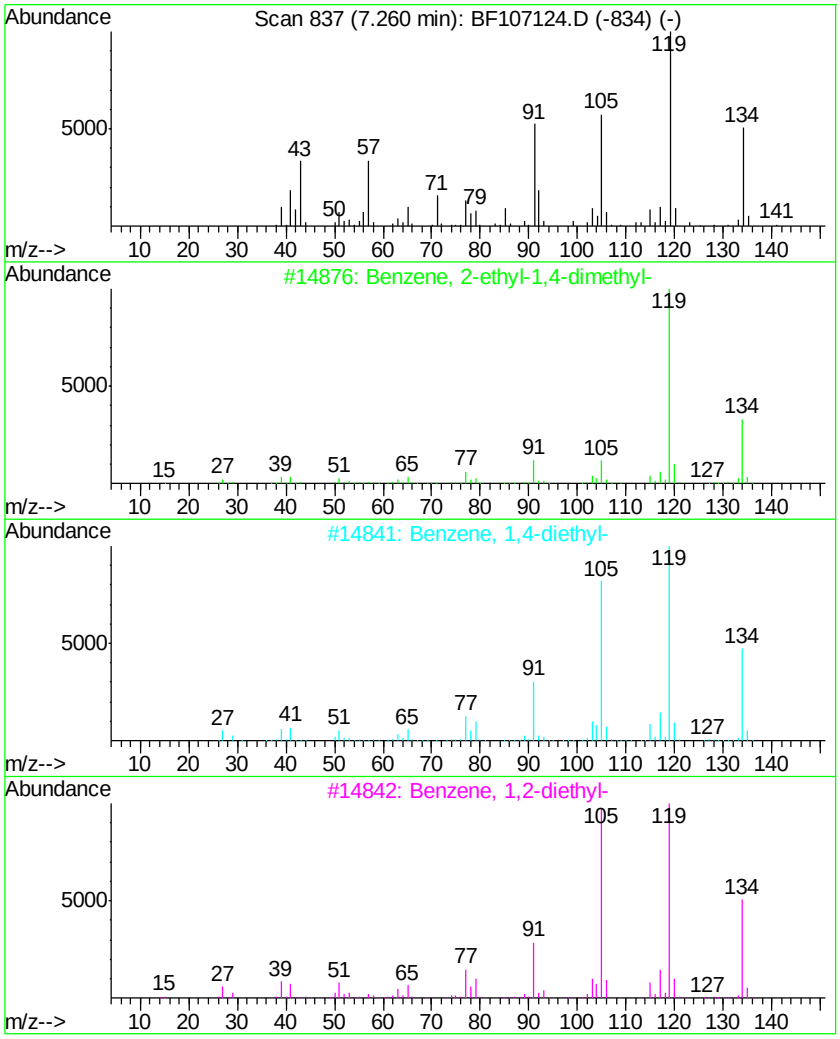
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

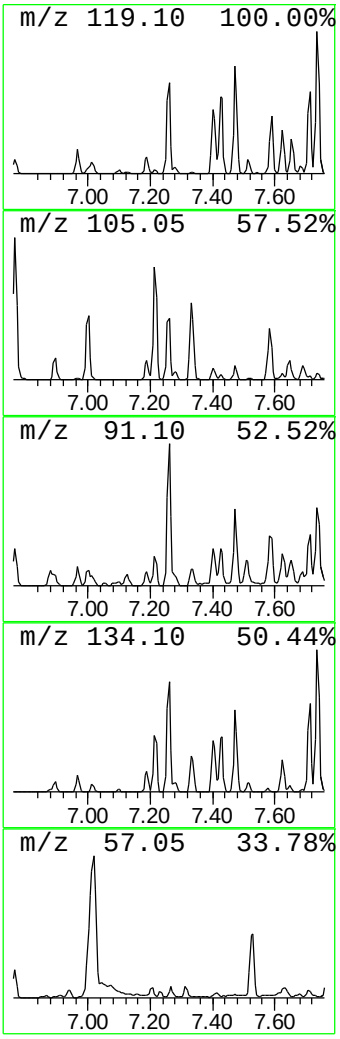
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.26 | 19.79 ng | 373542 | 1,4-Dichlorobenzene-d4 | 6.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 94 |
| 3 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 93 |
| 4 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 93 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 93 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

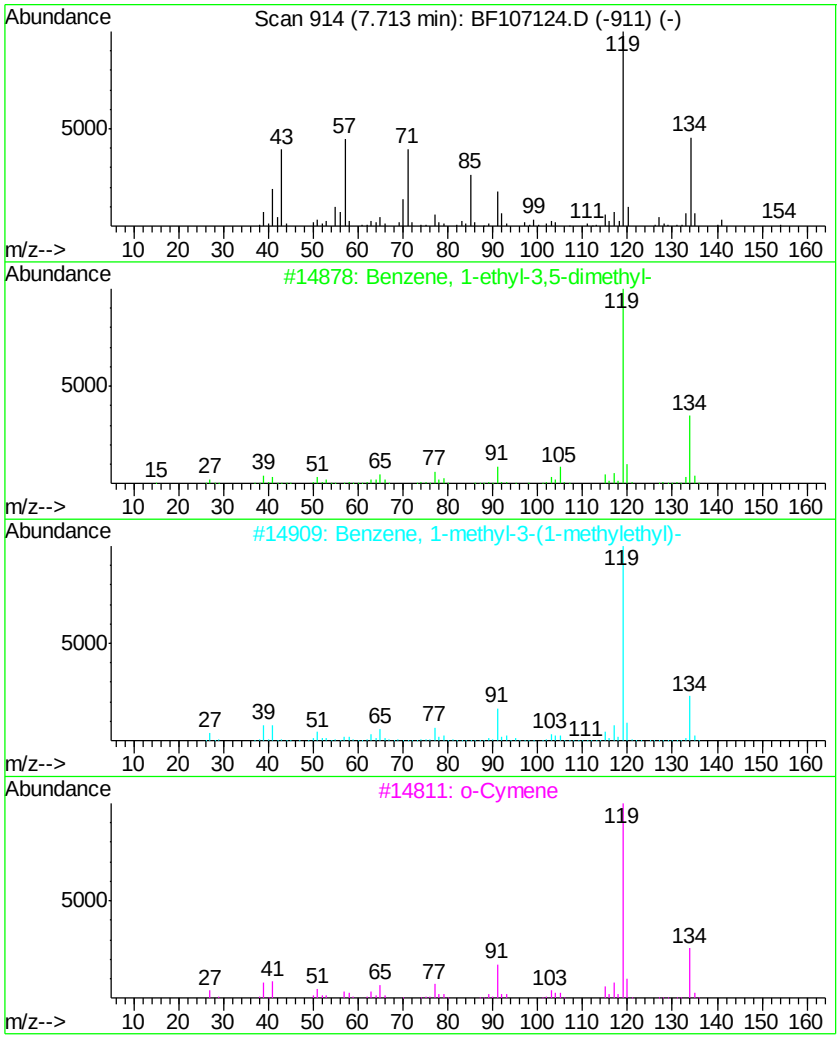
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

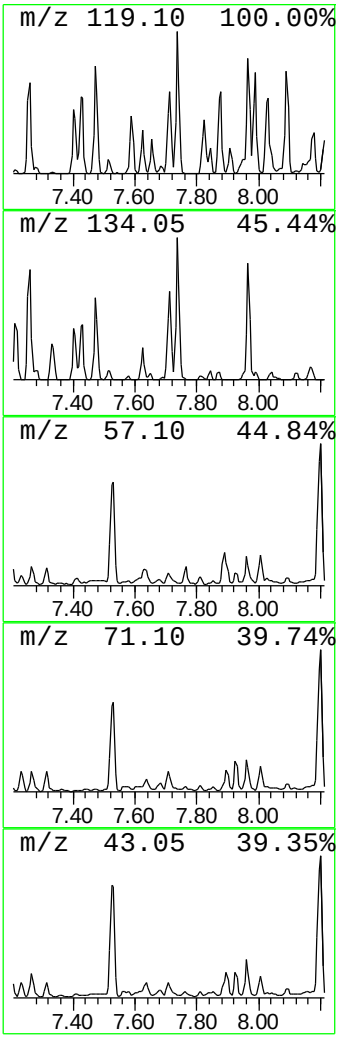
**********

Peak Number 5 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.71 | 16.27 ng | 197243 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 83 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 83 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 83 |
| 4 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 46 |
| 5 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 46 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

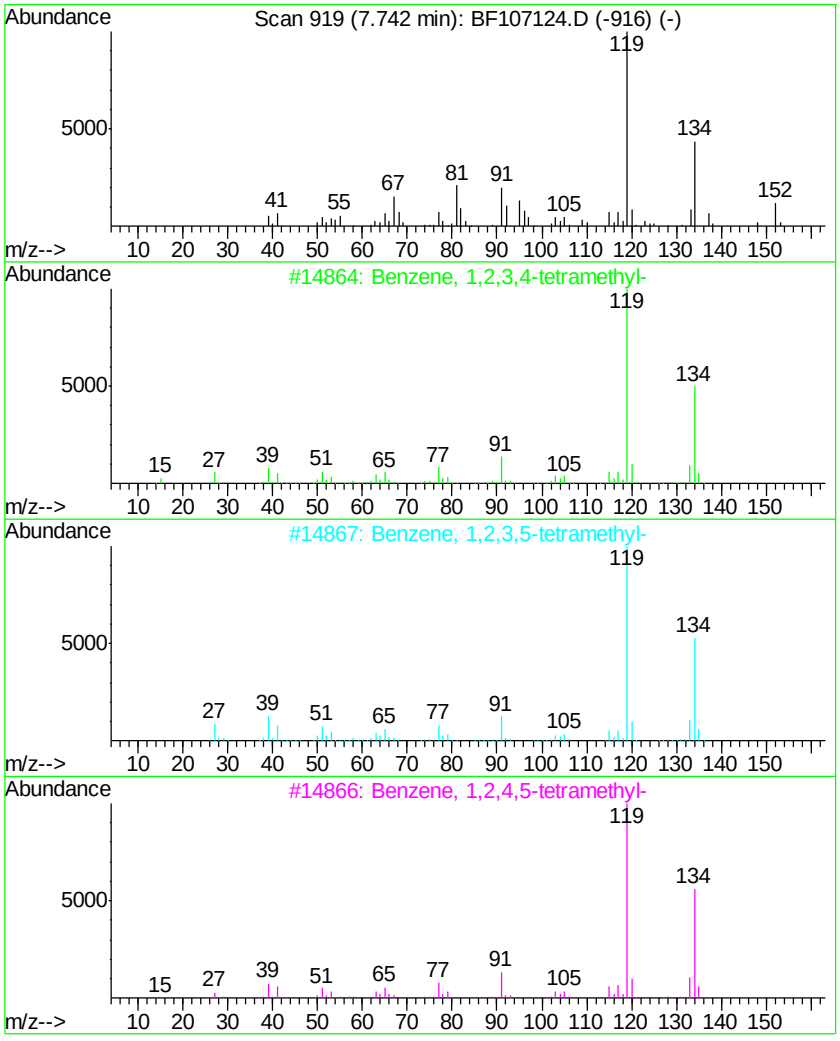
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

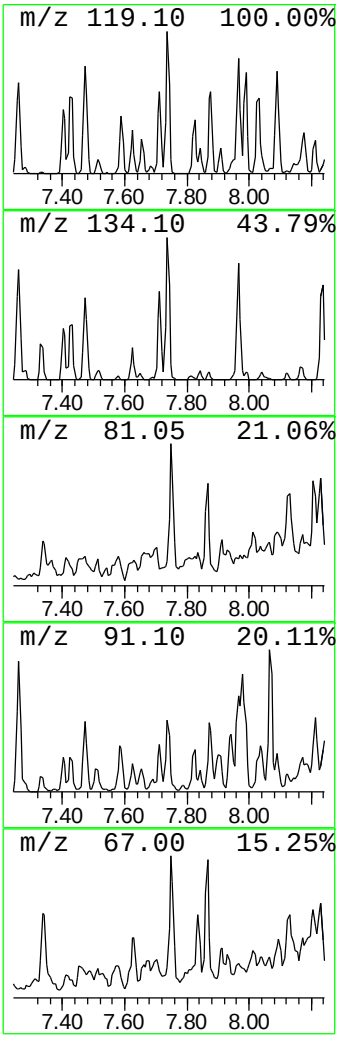
**********

Peak Number 6 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.74 | 37.07 ng | 449408 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 91 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 90 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 90 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

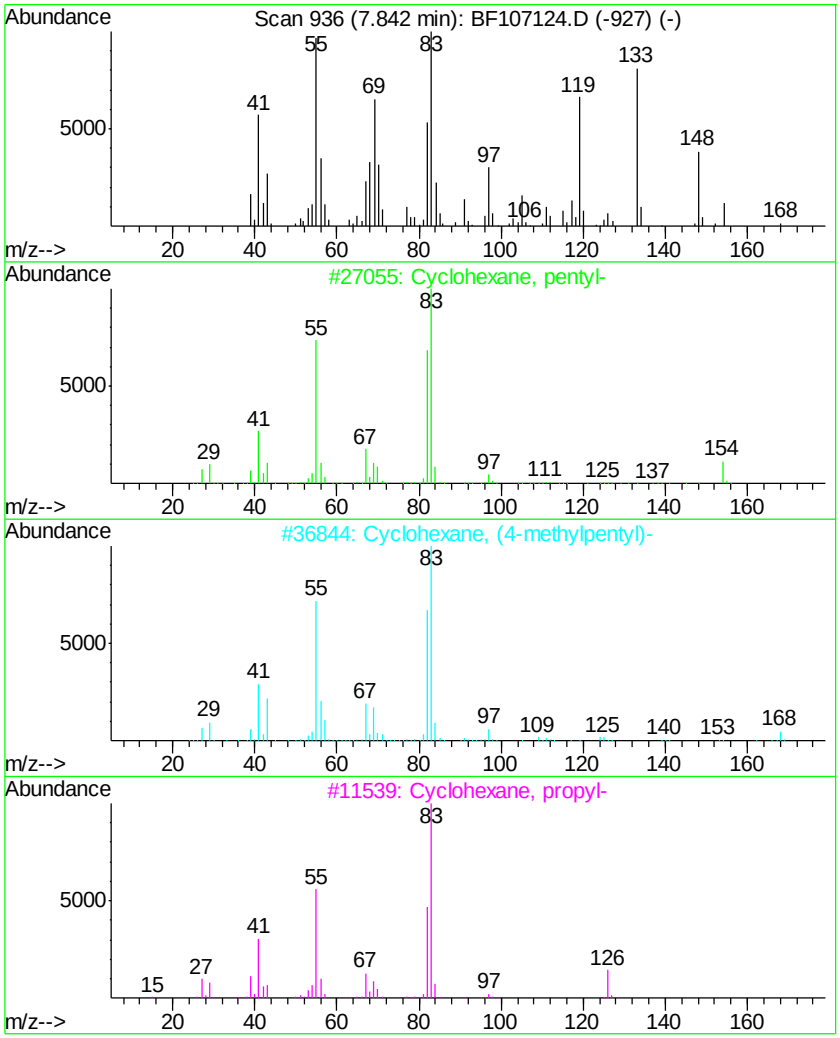
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

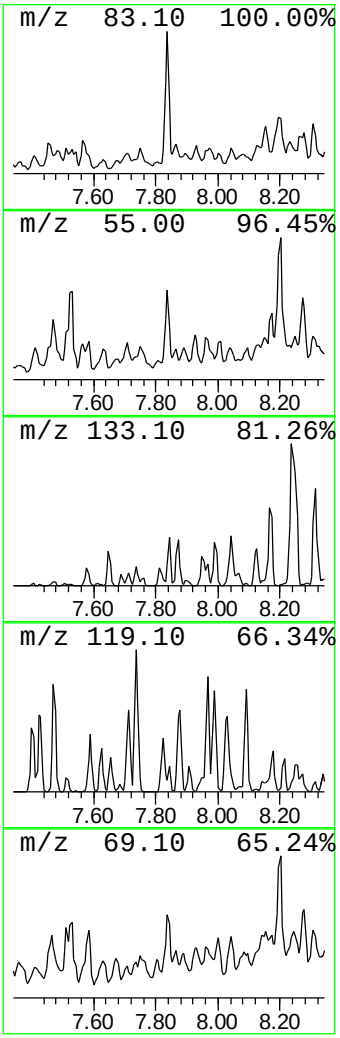
**********

Peak Number 7 Cyclohexane, pentyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.84 | 36.91 ng | 447555 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 83 |
| 2 | Cyclohexane, (4-methylpentyl)- | 168 | C12H24 | 061142-20-9 | 80 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 64 |
| 4 | Cyclohexane, (3-methylpentyl)- | 168 | C12H24 | 061142-38-9 | 64 |
| 5 | Cyclohexane, hexyl- | 168 | C12H24 | 004292-75-5 | 64 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

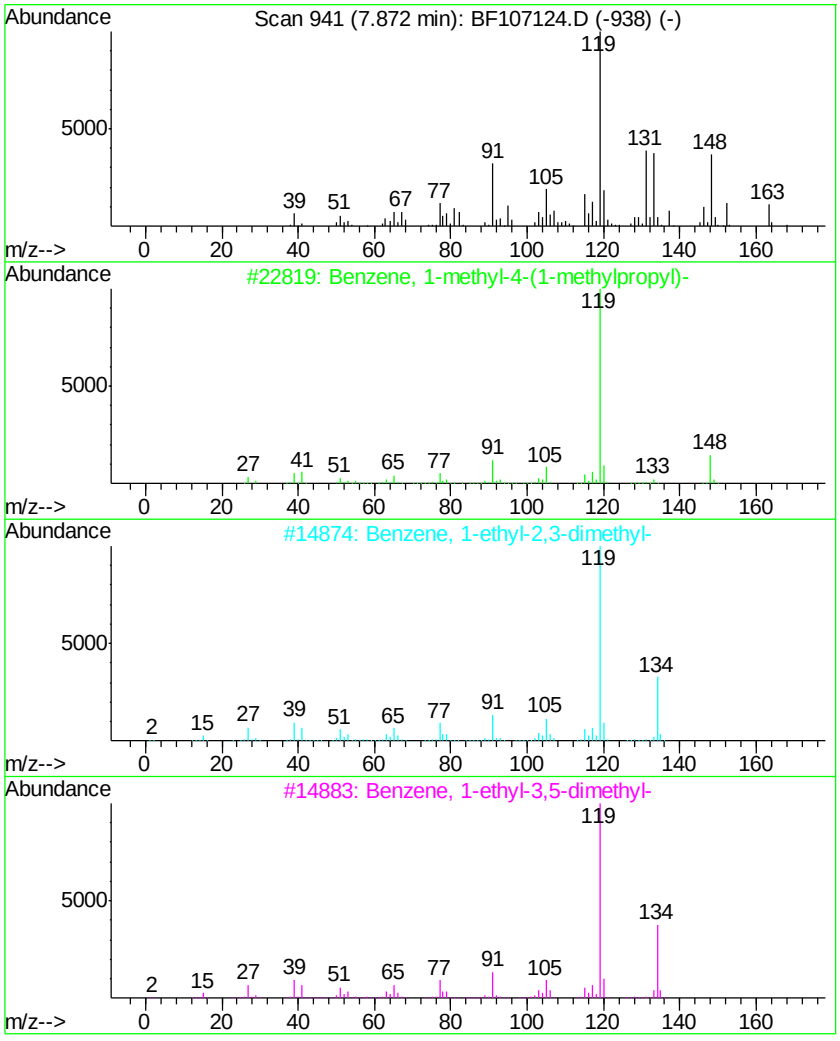
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

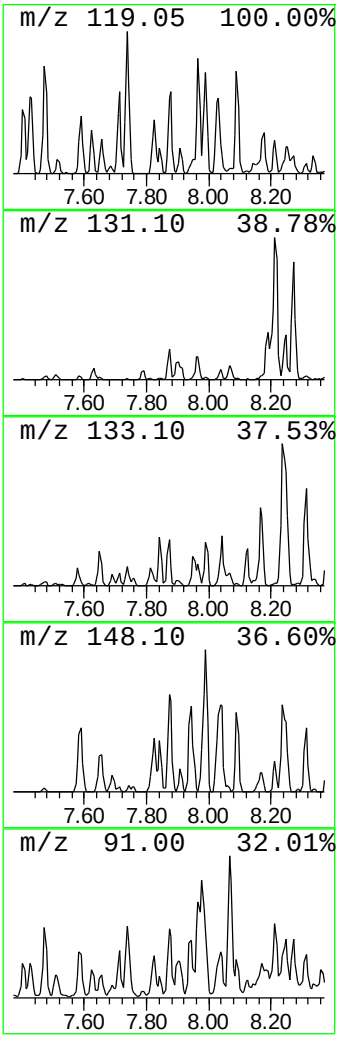
**********

Peak Number 8 Benzene, 1-methyl-4-(1-meth... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.87 | 20.90 ng | 253362 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 55 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 45 |
| 3 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 43 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 43 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 42 |



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Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

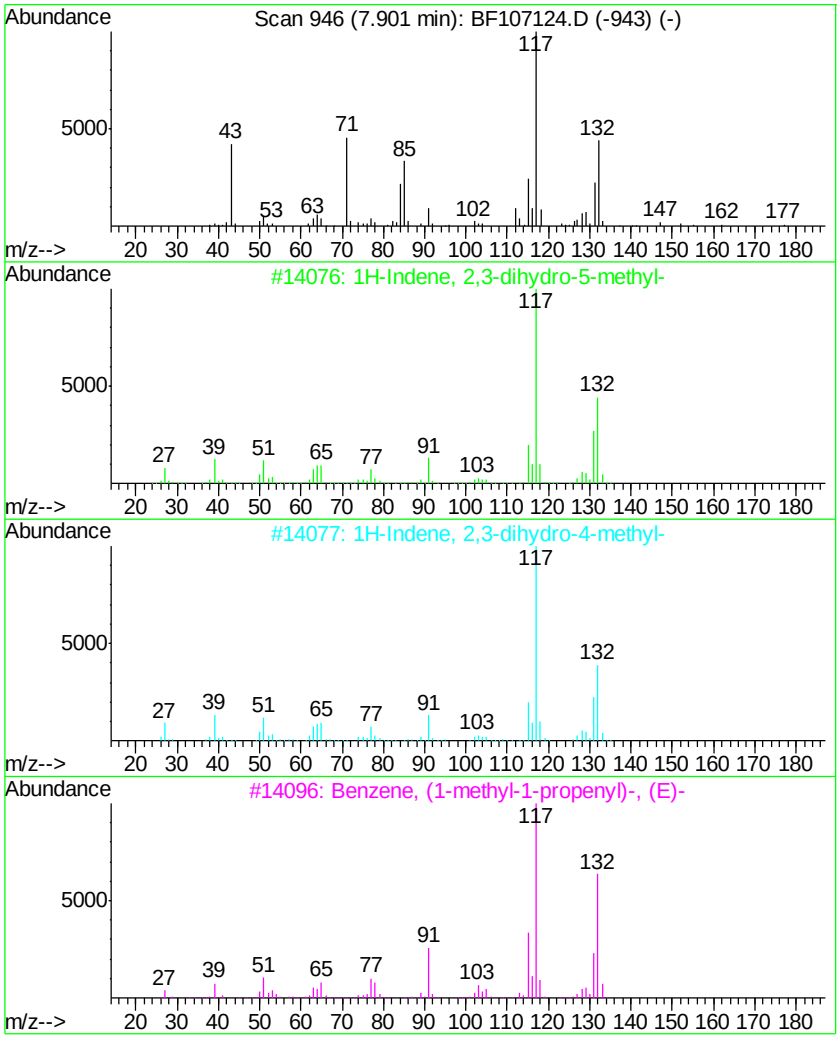
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

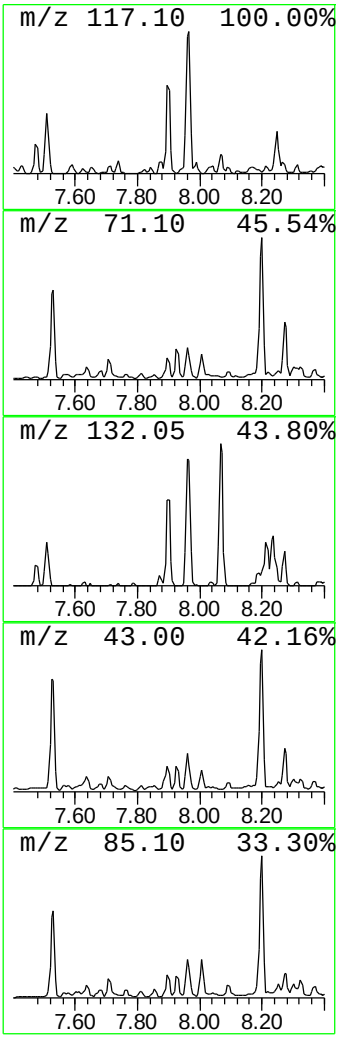
**********

Peak Number 9 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.90 | 20.73 ng | 251349 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 53 |
| 2 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 53 |
| 3 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 49 |
| 4 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 46 |
| 5 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 46 |



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Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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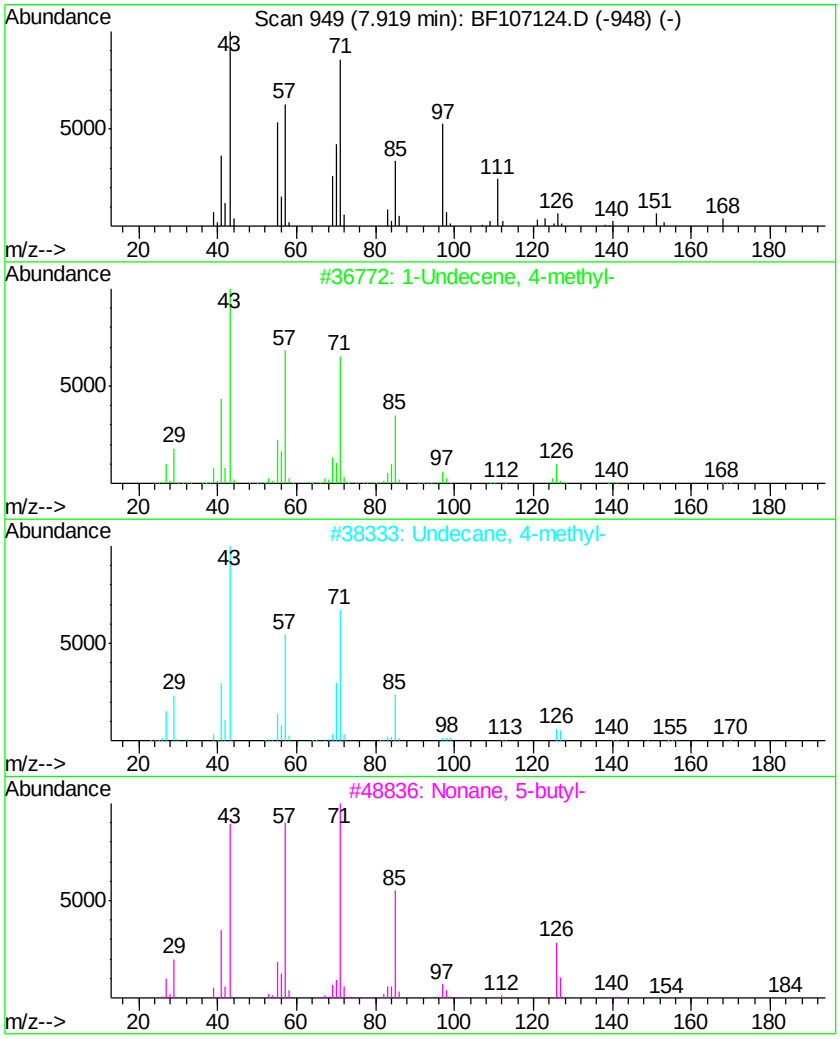
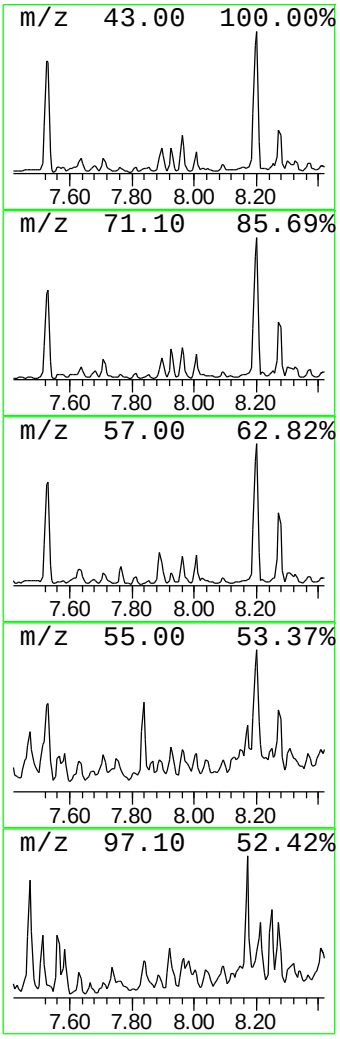
Peak Number 10 1-Undecene, 4-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.92 | 17.05 ng | 206694 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Undecene, 4-methyl- | 168 | C12H24 | 074630-39-0 | 64 |
| 2 | Undecane, 4-methyl- | 170 | C12H26 | 002980-69-0 | 64 |
| 3 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 59 |
| 4 | Sulfurous acid, hexyl 2-pentyl e... | 236 | C11H24O3S | 1000309-15-6 | 53 |
| 5 | Sulfurous acid, hexyl pentyl ester | 236 | C11H24O3S | 1000309-14-1 | 53 |



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Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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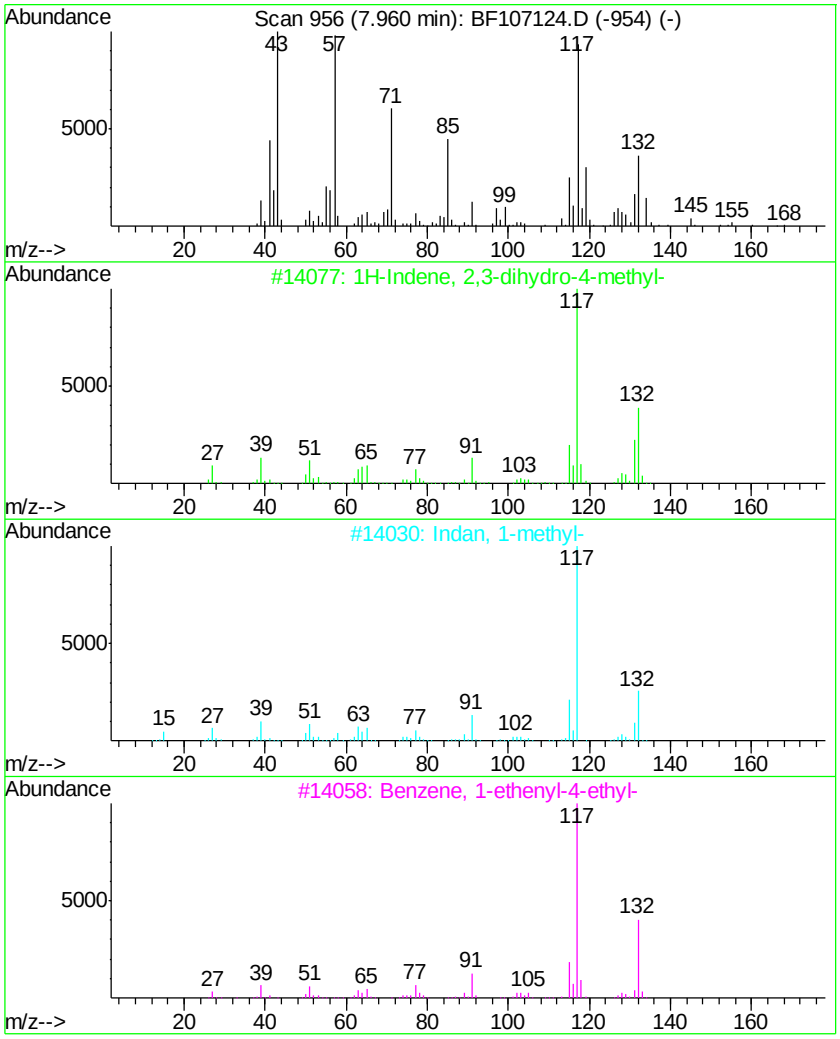
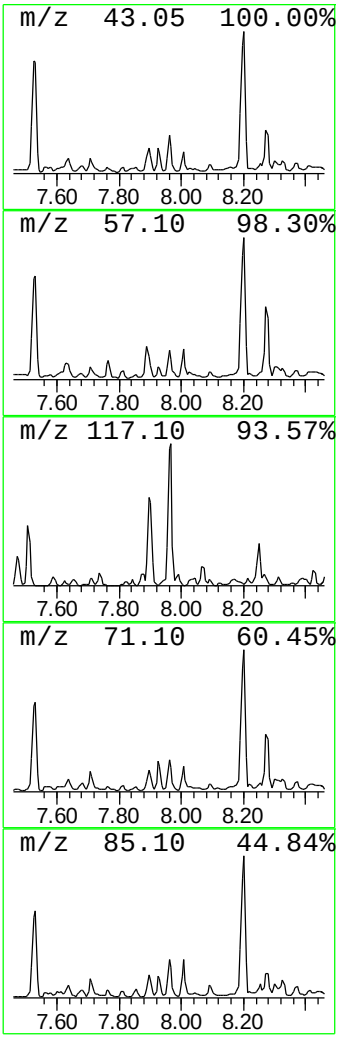
Peak Number 11 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.96 | 42.41 ng | 514200 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 50 |
| 2 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 46 |
| 3 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 43 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 43 |
| 5 | Butanedioic acid, 2-hydroxy-2-me... | 176 | C7H12O5 | 081426-68-8 | 38 |



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Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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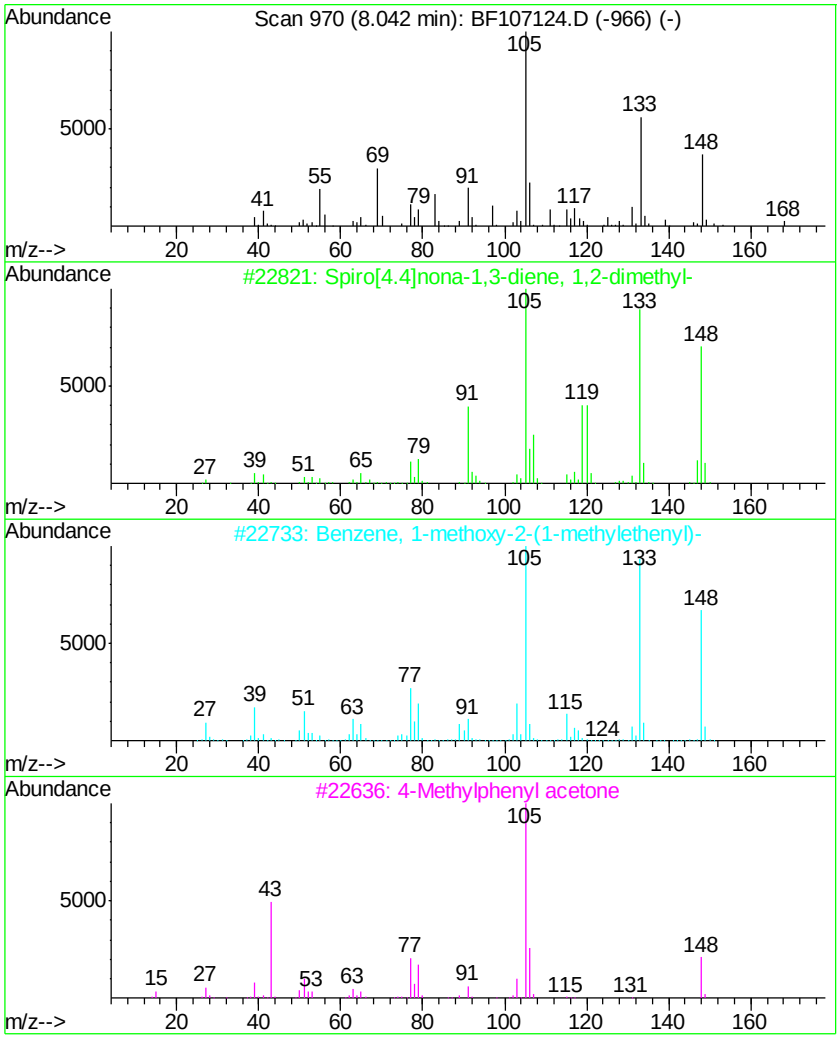
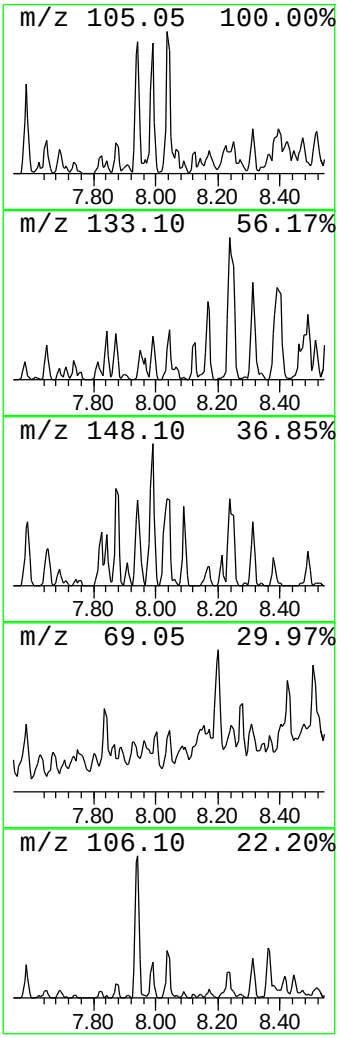
Peak Number 12 Spiro[4.4]nona-1,3-diene, 1... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.04 | 17.27 ng | 209371 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Spiro[4.4]nona-1,3-diene, 1,2-di... | 148 | C11H16 | 1000163-57-6 | 53 |
| 2 | Benzene, 1-methoxy-2-(1-methylet... | 148 | C10H12O | 010278-02-1 | 43 |
| 3 | 4-Methylphenyl acetone | 148 | C10H12O | 002096-86-8 | 41 |
| 4 | Benzene, 1-methyl-4-(2-methylpro... | 148 | C11H16 | 005161-04-6 | 38 |
| 5 | 2-Methylindan-2-ol | 148 | C10H12O | 033223-84-6 | 38 |



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Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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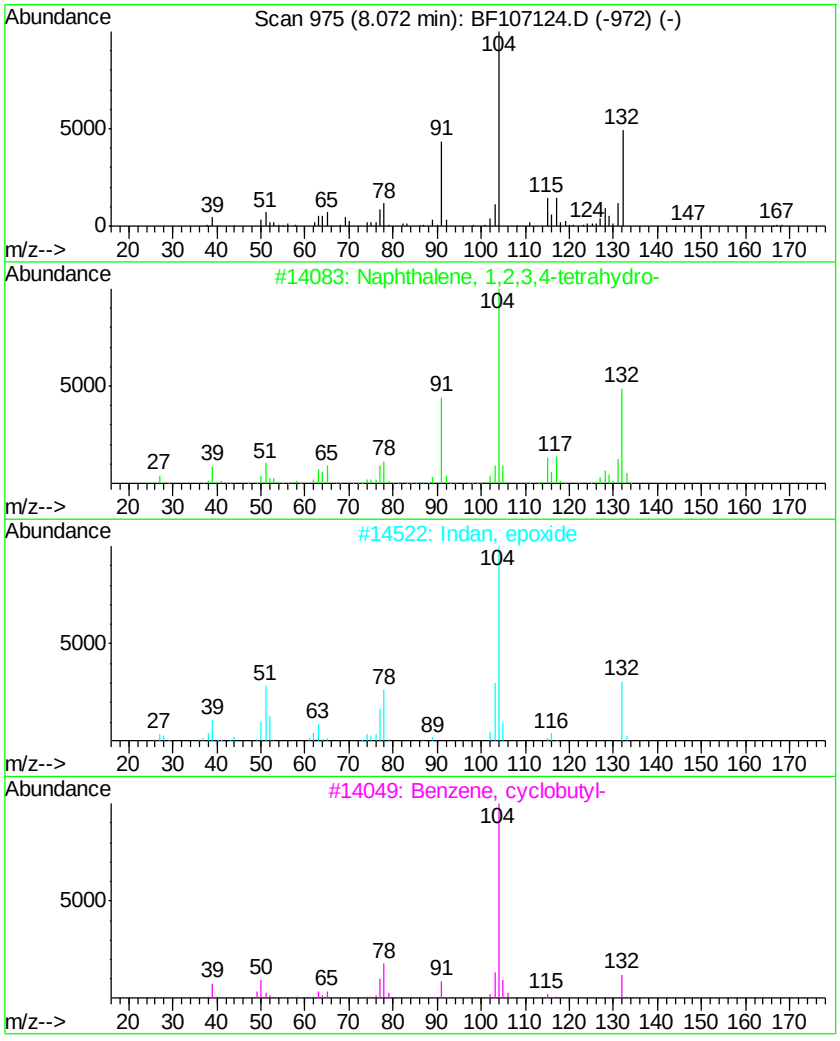
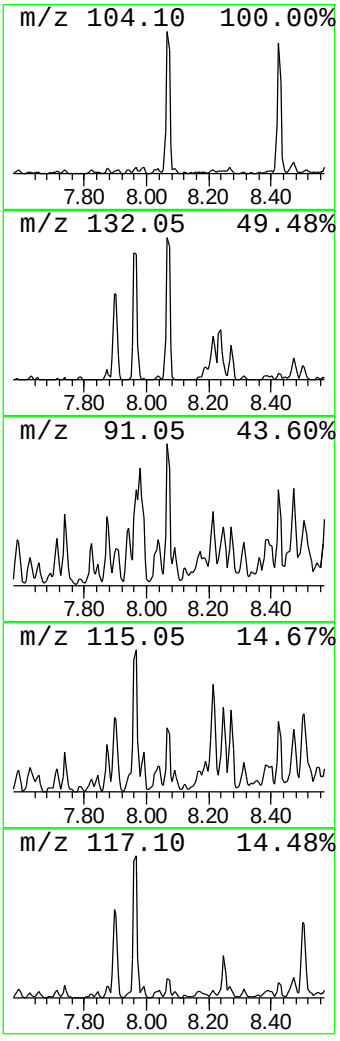
Peak Number 13 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.07 | 14.15 ng | 171564 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 94 |
| 2 | Indan, epoxide | 132 | C9H8O | 000768-22-9 | 58 |
| 3 | Benzene, cyclobutyl- | 132 | C10H12 | 004392-30-7 | 53 |
| 4 | 2-Propenoic acid, 2-phenylethyl ... | 176 | C11H12O2 | 003530-36-7 | 38 |
| 5 | Acetic acid, 2-phenylethyl ester | 164 | C10H12O2 | 000103-45-7 | 38 |



# Library Search Compound Report

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Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

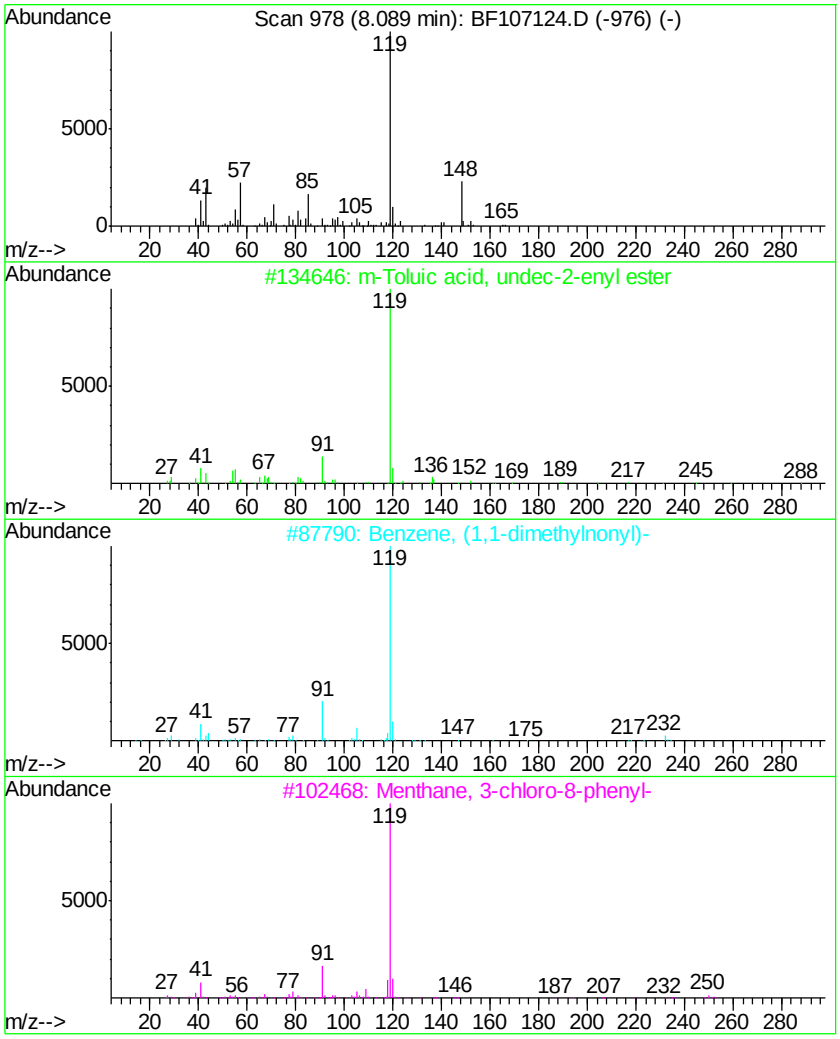
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

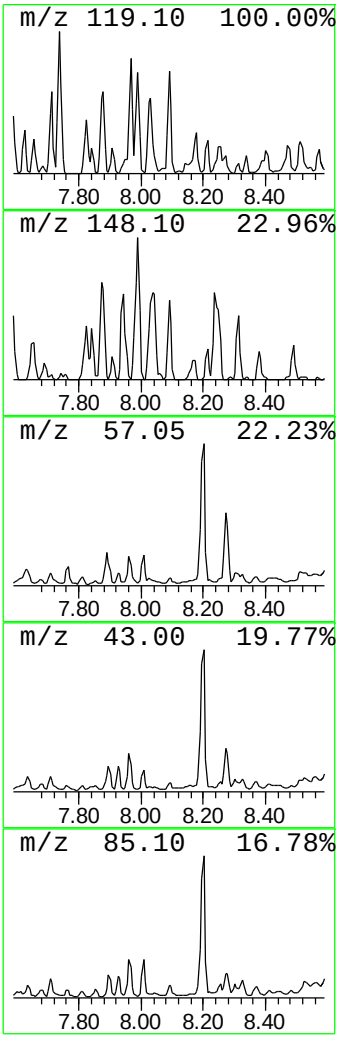
**********

Peak Number 14 unknown8.09 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.09 | 15.44 ng | 187159 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | m-Toluic acid, undec-2-enyl ester | 288 | C19H28O2 | 1000292-61-3 | 40 |
| 2 | Benzene, (1,1-dimethylnonyl)- | 232 | C17H28 | 055191-25-8 | 38 |
| 3 | Menthane, 3-chloro-8-phenyl- | 250 | C16H23Cl | 184007-21-4 | 38 |
| 4 | p-Menthane, 2,3-dibromo-8-phenyl- | 372 | C16H22Br2 | 1000152-61-6 | 38 |
| 5 | m-Toluic acid, 6-ethyl-3-octyl e... | 276 | C18H28O2 | 1000293-33-3 | 36 |



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Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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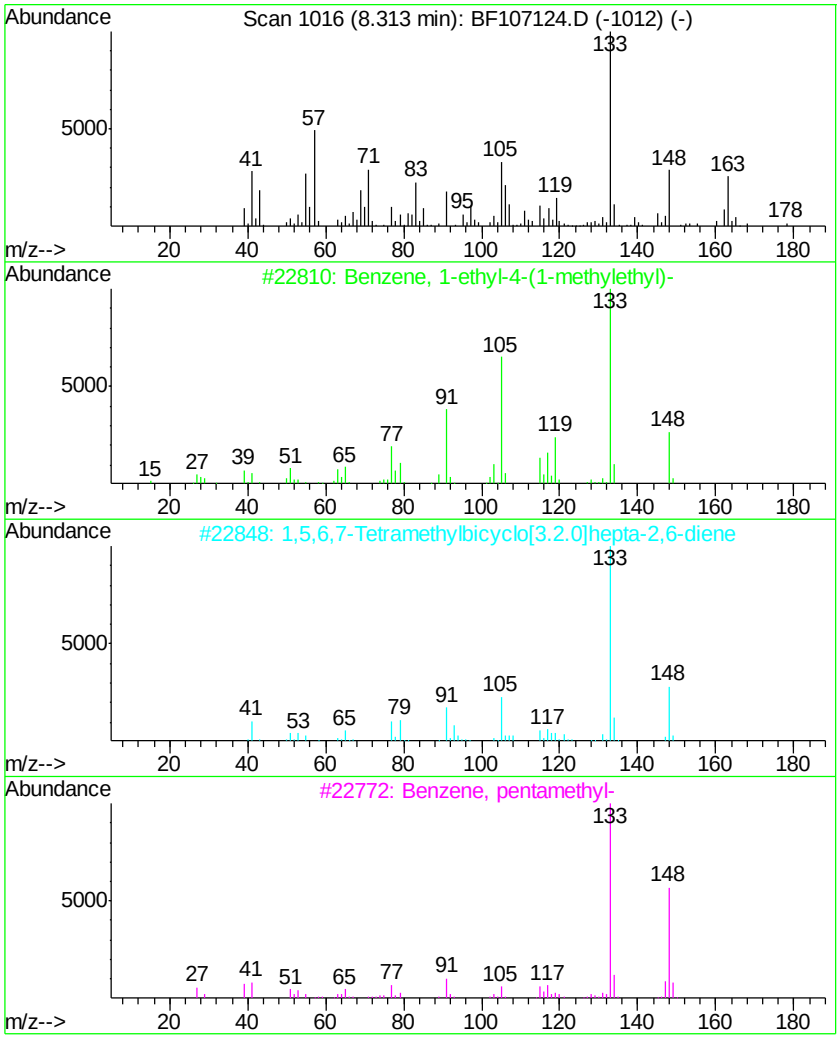
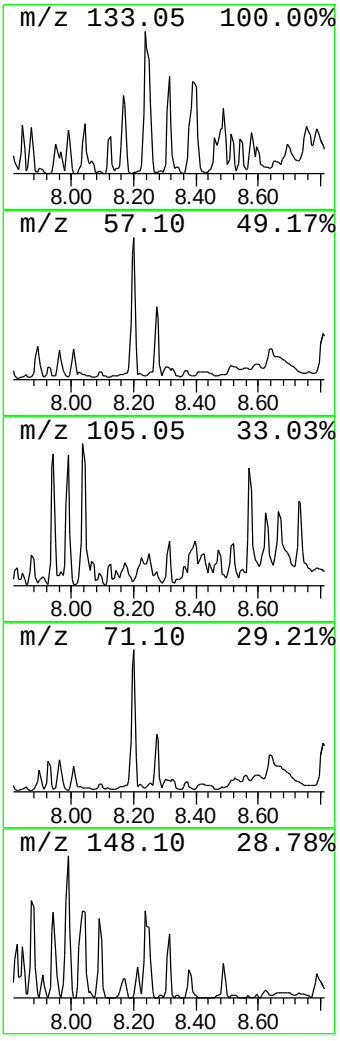
Peak Number 15 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.31 | 32.34 ng | 392055 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 86 |
| 2 | 1,5,6,7-Tetramethylbicyclo[3.2.0... | 148 | C11H16 | 134329-46-7 | 70 |
| 3 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 60 |
| 4 | Benzene, 1-(1,1-dimethylethyl)-3... | 148 | C11H16 | 001075-38-3 | 58 |
| 5 | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16 | 017851-27-3 | 58 |



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Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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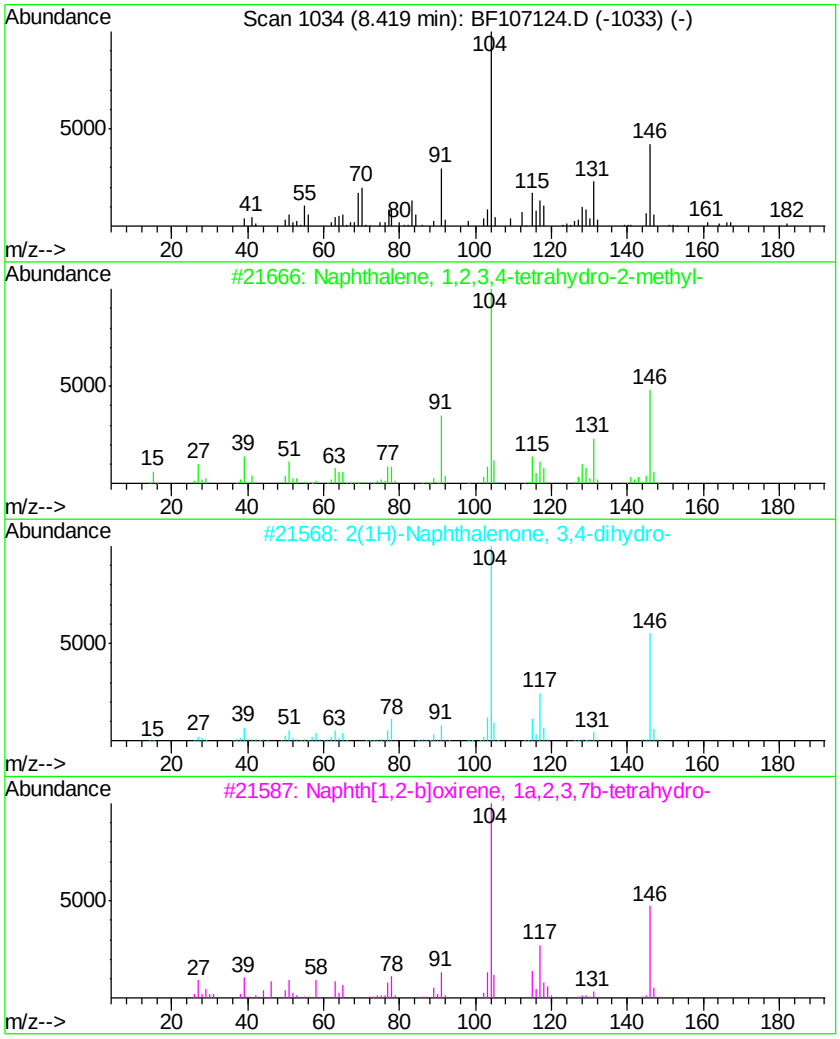
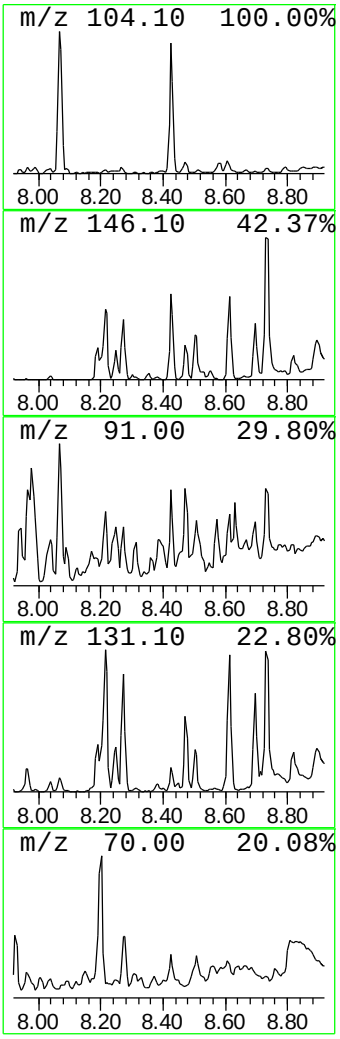
Peak Number 16 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.42 | 21.87 ng | 265174 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 93 |
| 2 | 2(1H)-Naphthalenone, 3,4-dihydro- | 146 | C10H10O | 000530-93-8 | 64 |
| 3 | Naphth[1,2-b]oxirene, 1a,2,3,7b-... | 146 | C10H10O | 002461-34-9 | 58 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021564-92-1 | 50 |
| 5 | Benzene, 1,1'-(1,2-cyclobutanedi... | 208 | C16H16 | 020071-09-4 | 35 |



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Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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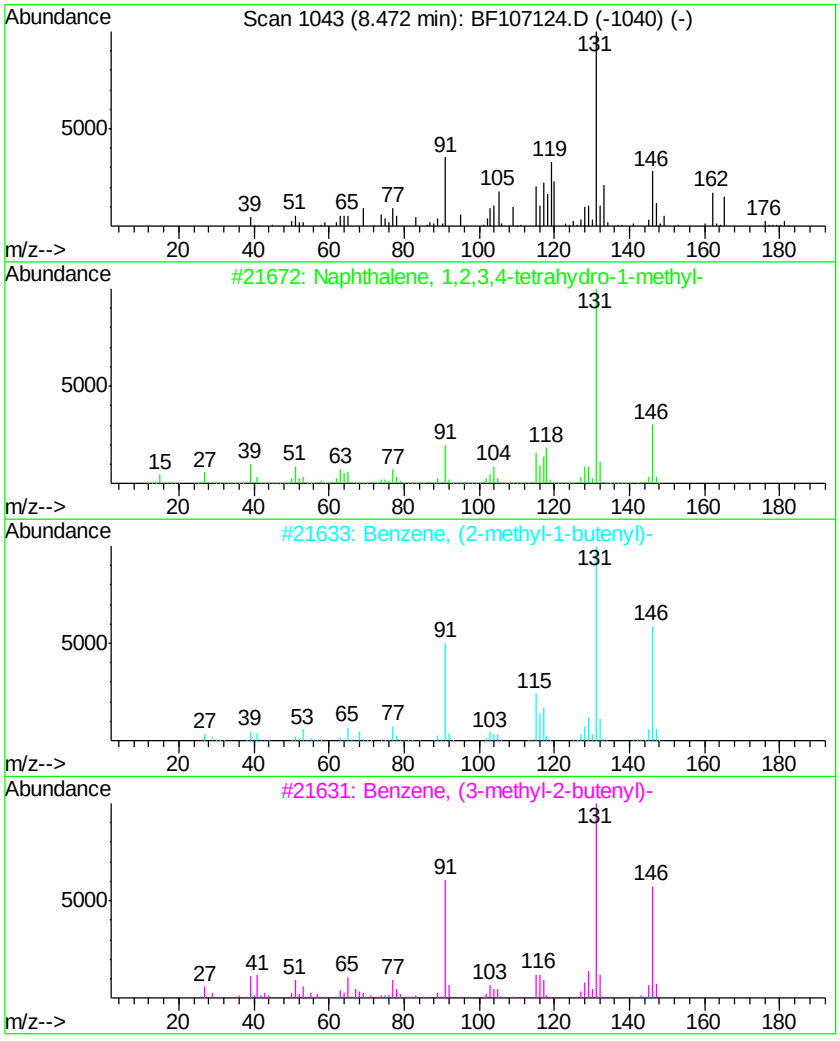
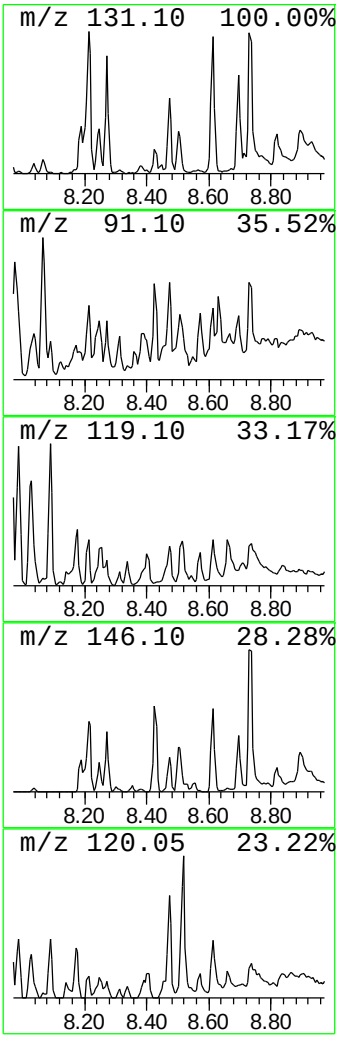
Peak Number 17 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.47 | 14.69 ng | 178060 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 91 |
| 2 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 55 |
| 3 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 50 |
| 4 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 50 |
| 5 | Benzene, 1-methyl-2-(1-methyl-2-... | 146 | C11H14 | 097664-19-2 | 49 |



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Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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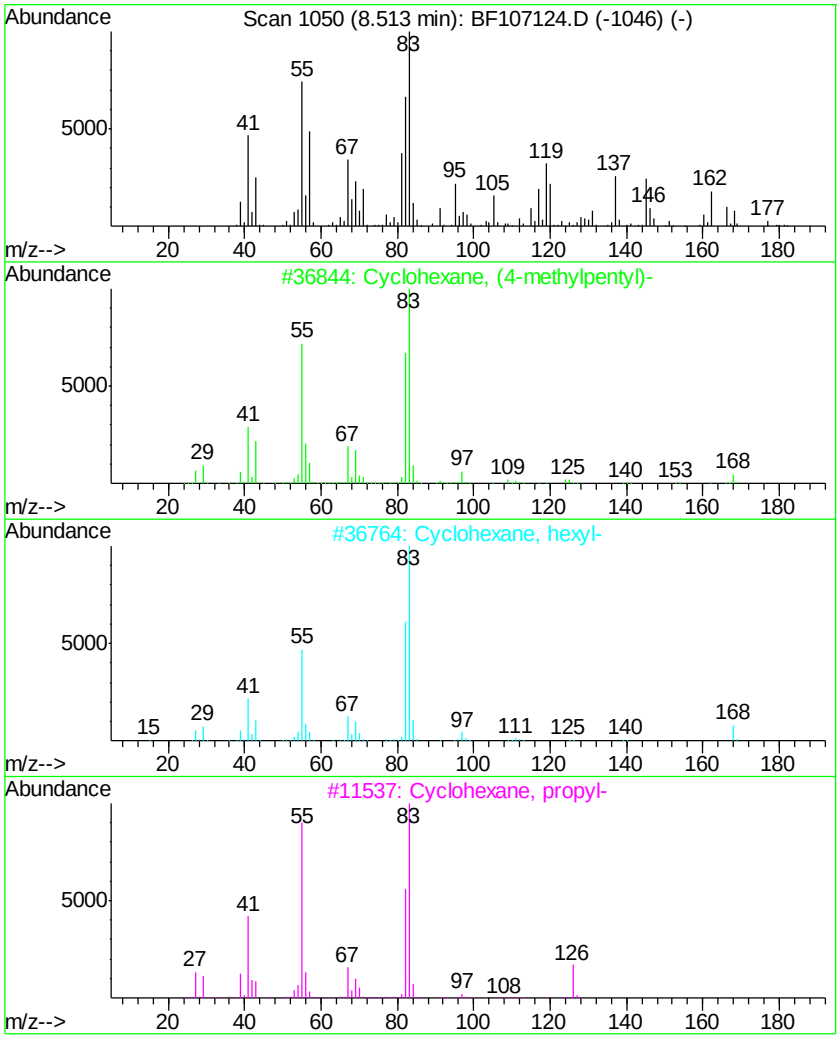
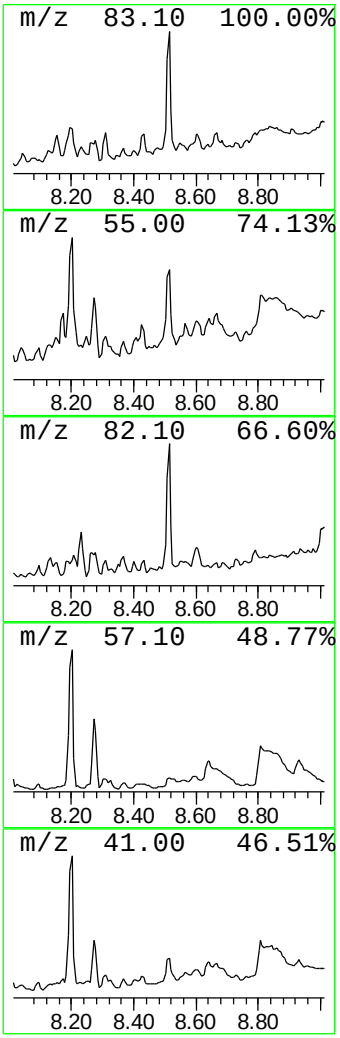
Peak Number 18 unknown8.51 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.51 | 49.36 ng | 598460 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (4-methylpentyl)- | 168 | C12H24 | 061142-20-9 | 41 |
| 2 | Cyclohexane, hexyl- | 168 | C12H24 | 004292-75-5 | 38 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 35 |
| 4 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 35 |
| 5 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 35 |



Library Search Compound Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

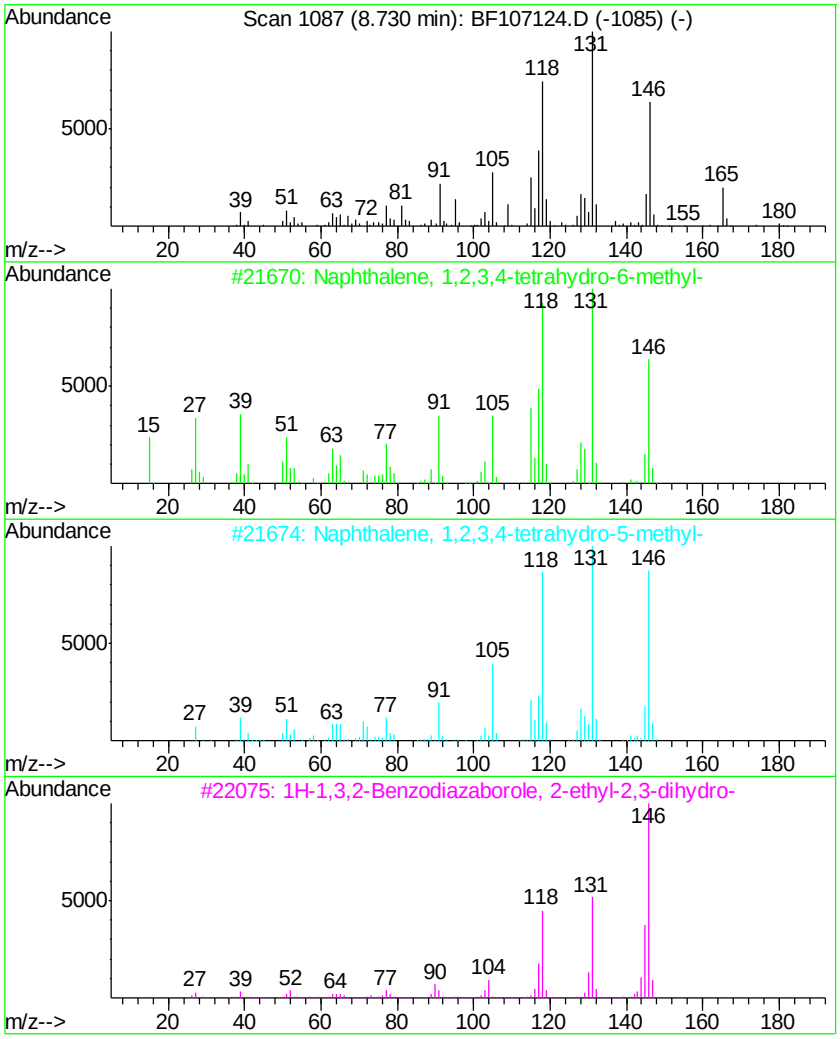
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

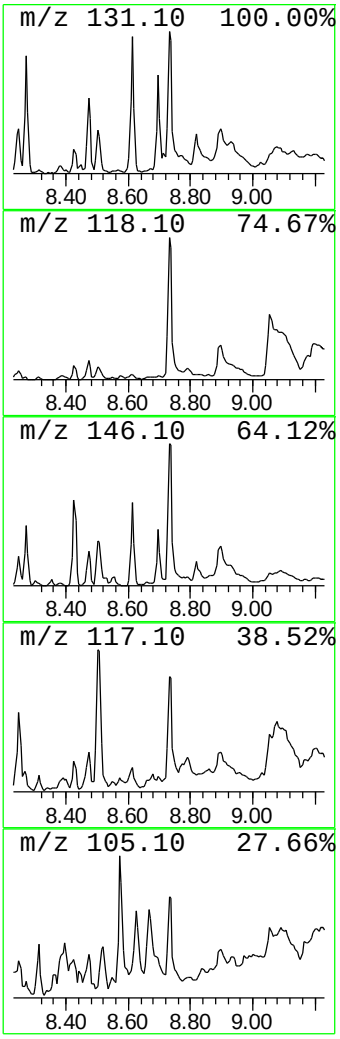
**********

Peak Number 19 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.73 | 28.49 ng | 345390 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001680-51-9 | 96 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 95 |
| 3 | 1H-1,3,2-Benzodiazaborole, 2-eth... | 146 | C8H11BN2 | 074663-81-3 | 81 |
| 4 | Benzene, (1-ethyl-2-propenyl)- | 146 | C11H14 | 019947-22-9 | 76 |
| 5 | 1H-Inden-1-one, 2,3-dihydro-2-me... | 146 | C10H10O | 017496-14-9 | 60 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

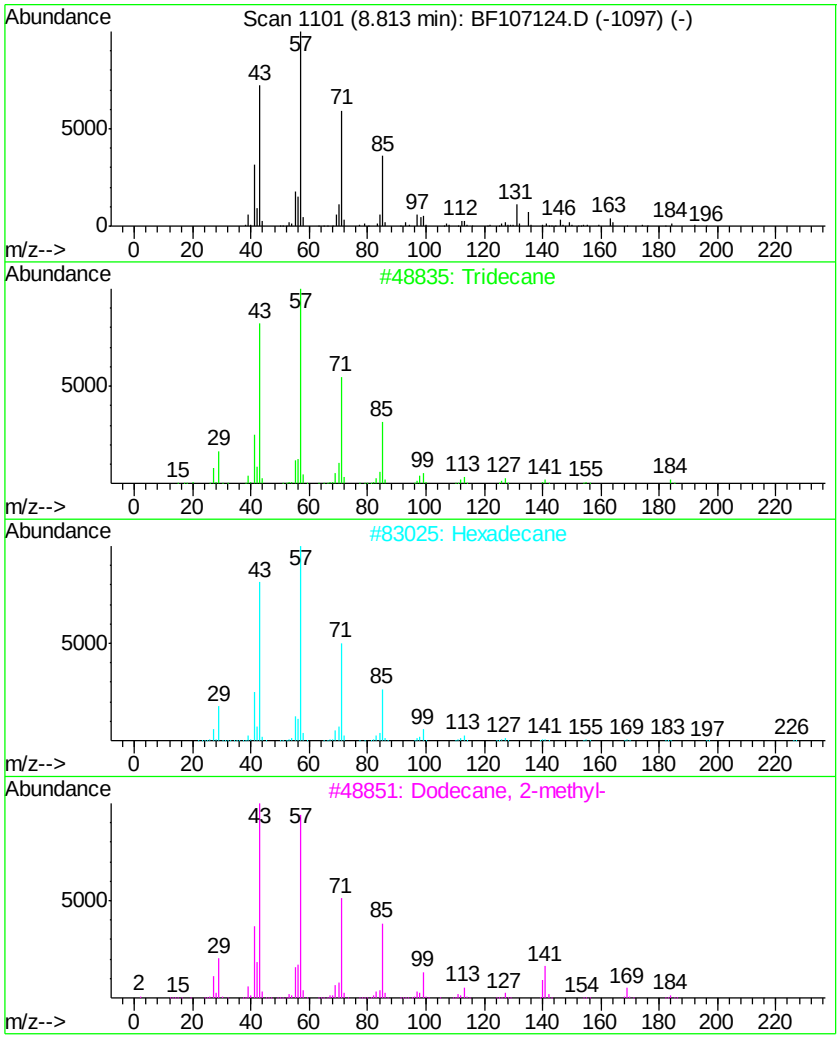
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

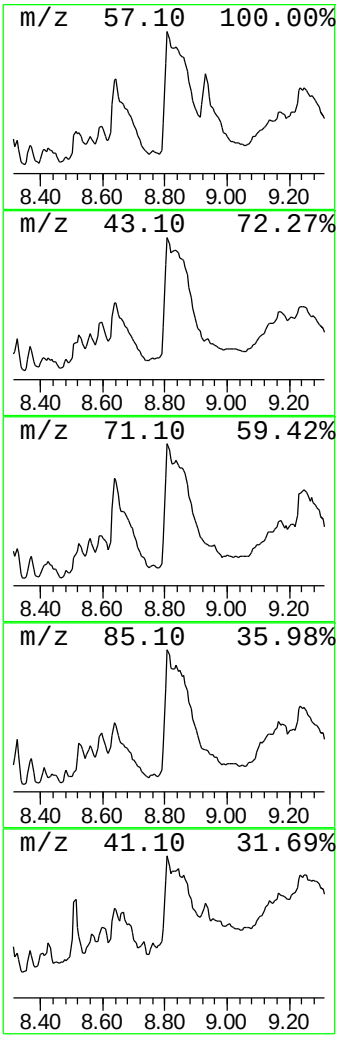
**********

Peak Number 20 Tridecane Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.81 | 51.11 ng | 619691 | Naphthalene-d8 | 8.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 64 |
| 3 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 58 |
| 4 | Nonadecane | 268 | C19H40 | 000629-92-5 | 53 |
| 5 | Bacchotricuneatin c | 342 | C20H22O5 | 066563-30-2 | 52 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070518\
Data File : BF107124.D
Acq On : 5 Jul 2018 14:02
Operator : JU/SJ
Sample : J3853-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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 |
| Benzene, 1,2,3-tr... | 6.77 | 31.1 | ng | 586886 | 1 | 6.95 | 377418 | 20.0 |
| Heptane, 4-ethyl- | 7.21 | 16.6 | ng | 313068 | 1 | 6.95 | 377418 | 20.0 |
| Benzene, 2-ethyl-... | 7.26 | 19.8 | ng | 373542 | 1 | 6.95 | 377418 | 20.0 |
| Benzene, 1-ethyl-... | 7.71 | 16.3 | ng | 197243 | 2 | 8.23 | 242481 | 20.0 |
| Benzene, 1,2,3,4-... | 7.74 | 37.1 | ng | 449408 | 2 | 8.23 | 242481 | 20.0 |
| Cyclohexane, pentyl- | 7.84 | 36.9 | ng | 447555 | 2 | 8.23 | 242481 | 20.0 |
| Benzene, 1-methyl... | 7.87 | 20.9 | ng | 253362 | 2 | 8.23 | 242481 | 20.0 |
| 1H-Indene, 2,3-di... | 7.90 | 20.7 | ng | 251349 | 2 | 8.23 | 242481 | 20.0 |
| 1-Undecene, 4-met... | 7.92 | 17.1 | ng | 206694 | 2 | 8.23 | 242481 | 20.0 |
| 1H-Indene, 2,3-di... | 7.96 | 42.4 | ng | 514200 | 2 | 8.23 | 242481 | 20.0 |
| Spiro[4.4]nona-1,... | 8.04 | 17.3 | ng | 209371 | 2 | 8.23 | 242481 | 20.0 |
| Naphthalene, 1,2,... | 8.07 | 14.2 | ng | 171564 | 2 | 8.23 | 242481 | 20.0 |
| unknown8.09 | 8.09 | 15.4 | ng | 187159 | 2 | 8.23 | 242481 | 20.0 |
| Benzene, 1-ethyl-... | 8.31 | 32.3 | ng | 392055 | 2 | 8.23 | 242481 | 20.0 |
| Naphthalene, 1,2,... | 8.42 | 21.9 | ng | 265174 | 2 | 8.23 | 242481 | 20.0 |
| Naphthalene, 1,2,... | 8.47 | 14.7 | ng | 178060 | 2 | 8.23 | 242481 | 20.0 |
| unknown8.51 | 8.51 | 49.4 | ng | 598460 | 2 | 8.23 | 242481 | 20.0 |
| Naphthalene, 1,2,... | 8.73 | 28.5 | ng | 345390 | 2 | 8.23 | 242481 | 20.0 |
| Tridecane | 8.81 | 51.1 | ng | 619691 | 2 | 8.23 | 242481 | 20.0 |