LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

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-BF102616.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 | 4.876 | 242 | 244 | 254 | rBV | 638093 | 1012379 | 22.31% | 2.339% |
| 2 | 5.322 | 280 | 283 | 285 | rBV | 3823977 | 4410984 | 97.22% | 10.189% |
| 3 | 5.459 | 293 | 295 | 302 | rVB2 | 16983 | 47242 | 1.04% | 0.109% |
| 4 | 5.653 | 310 | 312 | 315 | rBV | 1113365 | 1222923 | 26.95% | 2.825% |
| 5 | 5.996 | 340 | 342 | 348 | rVB | 69060 | 97857 | 2.16% | 0.226% |
| 6 | 6.373 | 372 | 375 | 383 | rBV | 3650575 | 4376418 | 96.46% | 10.109% |
| 7 | 6.487 | 383 | 385 | 388 | rVV | 3195944 | 4083810 | 90.01% | 9.433% |
| 8 | 6.567 | 390 | 392 | 394 | rVB | 40489 | 50210 | 1.11% | 0.116% |
| 9 | 6.716 | 403 | 405 | 408 | rBV | 698585 | 808839 | 17.83% | 1.868% |
| 10 | 6.876 | 416 | 419 | 422 | rBV | 3091861 | 2845174 | 62.71% | 6.572% |
| 11 | 7.287 | 452 | 455 | 458 | rBV | 1703990 | 2052653 | 45.24% | 4.742% |
| 12 | 7.413 | 463 | 466 | 472 | rVB | 83143 | 131040 | 2.89% | 0.303% |
| 13 | 7.756 | 494 | 496 | 504 | rVB3 | 22617 | 48156 | 1.06% | 0.111% |
| 14 | 8.008 | 516 | 518 | 526 | rBV | 1317452 | 1210532 | 26.68% | 2.796% |
| 15 | 9.093 | 610 | 613 | 615 | rBV | 4459377 | 4537046 | 100.00% | 10.480% |
| 16 | 9.493 | 645 | 648 | 650 | rBV | 1069637 | 1366169 | 30.11% | 3.156% |
| 17 | 9.756 | 669 | 671 | 673 | rBV | 944231 | 1258445 | 27.74% | 2.907% |
| 18 | 10.202 | 709 | 710 | 712 | rVB | 87874 | 70286 | 1.55% | 0.162% |
| 19 | 10.419 | 726 | 729 | 732 | rBV | 32304 | 54805 | 1.21% | 0.127% |
| 20 | 10.556 | 738 | 741 | 743 | rBV | 2387988 | 2789856 | 61.49% | 6.444% |
| 21 | 10.671 | 750 | 751 | 756 | rBV | 86703 | 142992 | 3.15% | 0.330% |
| 22 | 11.128 | 789 | 791 | 796 | rVB2 | 54926 | 104801 | 2.31% | 0.242% |
| 23 | 11.242 | 799 | 801 | 802 | rVV | 1332152 | 1156852 | 25.50% | 2.672% |
| 24 | 11.322 | 805 | 808 | 810 | rVB2 | 45981 | 80695 | 1.78% | 0.186% |
| 25 | 11.482 | 819 | 822 | 826 | rBV2 | 129895 | 157554 | 3.47% | 0.364% |
| 26 | 11.779 | 846 | 848 | 850 | rBV2 | 20915 | 47018 | 1.04% | 0.109% |
| 27 | 11.848 | 853 | 854 | 859 | rVB | 35882 | 70093 | 1.54% | 0.162% |
| 28 | 12.294 | 891 | 893 | 895 | rBV | 43327 | 48899 | 1.08% | 0.113% |
| 29 | 12.454 | 905 | 907 | 909 | rBV | 375795 | 355550 | 7.84% | 0.821% |
| 30 | 12.682 | 924 | 927 | 929 | rBV | 219776 | 331769 | 7.31% | 0.766% |
| 31 | 12.831 | 937 | 940 | 942 | rBV | 4008074 | 3568896 | 78.66% | 8.244% |
| 32 | 13.048 | 957 | 959 | 960 | rBV | 42817 | 47106 | 1.04% | 0.109% |
| 33 | 13.117 | 963 | 965 | 969 | rVV2 | 18478 | 55485 | 1.22% | 0.128% |
| 34 | 13.391 | 987 | 989 | 994 | rBV4 | 26568 | 64690 | 1.43% | 0.149% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

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-BF102616.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.631 | 1007 | 1010 | 1011 | rBV2 | 25734 | 52229 | 1.15% | 0.121% |
| 36 | 13.734 | 1017 | 1019 | 1023 | rBV | 435091 | 498761 | 10.99% | 1.152% |
| 37 | 13.871 | 1029 | 1031 | 1037 | rBV | 738973 | 1152603 | 25.40% | 2.662% |
| 38 | 14.054 | 1045 | 1047 | 1051 | rBV3 | 36116 | 61222 | 1.35% | 0.141% |
| 39 | 14.362 | 1072 | 1074 | 1081 | rVB | 244976 | 393069 | 8.66% | 0.908% |
| 40 | 14.580 | 1090 | 1093 | 1096 | rBV4 | 27477 | 76206 | 1.68% | 0.176% |
| 41 | 14.637 | 1096 | 1098 | 1100 | rBV | 42765 | 75805 | 1.67% | 0.175% |
| 42 | 14.877 | 1117 | 1119 | 1123 | rBV | 111853 | 222384 | 4.90% | 0.514% |
| 43 | 14.991 | 1126 | 1129 | 1132 | rVB2 | 63128 | 120900 | 2.66% | 0.279% |
| 44 | 15.151 | 1141 | 1143 | 1146 | rBV | 50089 | 85266 | 1.88% | 0.197% |
| 45 | 15.208 | 1146 | 1148 | 1151 | rVV | 81524 | 145287 | 3.20% | 0.336% |
| 46 | 15.277 | 1151 | 1154 | 1163 | rVB | 563646 | 902438 | 19.89% | 2.085% |
| 47 | 15.745 | 1193 | 1195 | 1199 | rVB4 | 33728 | 59593 | 1.31% | 0.138% |
| 48 | 16.591 | 1266 | 1269 | 1275 | rVB2 | 41993 | 87956 | 1.94% | 0.203% |
| 49 | 16.740 | 1278 | 1282 | 1286 | rVB2 | 153879 | 290094 | 6.39% | 0.670% |
| 50 | 16.991 | 1301 | 1304 | 1309 | rVB | 30230 | 62378 | 1.37% | 0.144% |
| 51 | 17.494 | 1345 | 1348 | 1355 | rVB5 | 33106 | 96392 | 2.12% | 0.223% |
| 52 | 18.957 | 1471 | 1476 | 1485 | rVB5 | 54715 | 201328 | 4.44% | 0.465% |

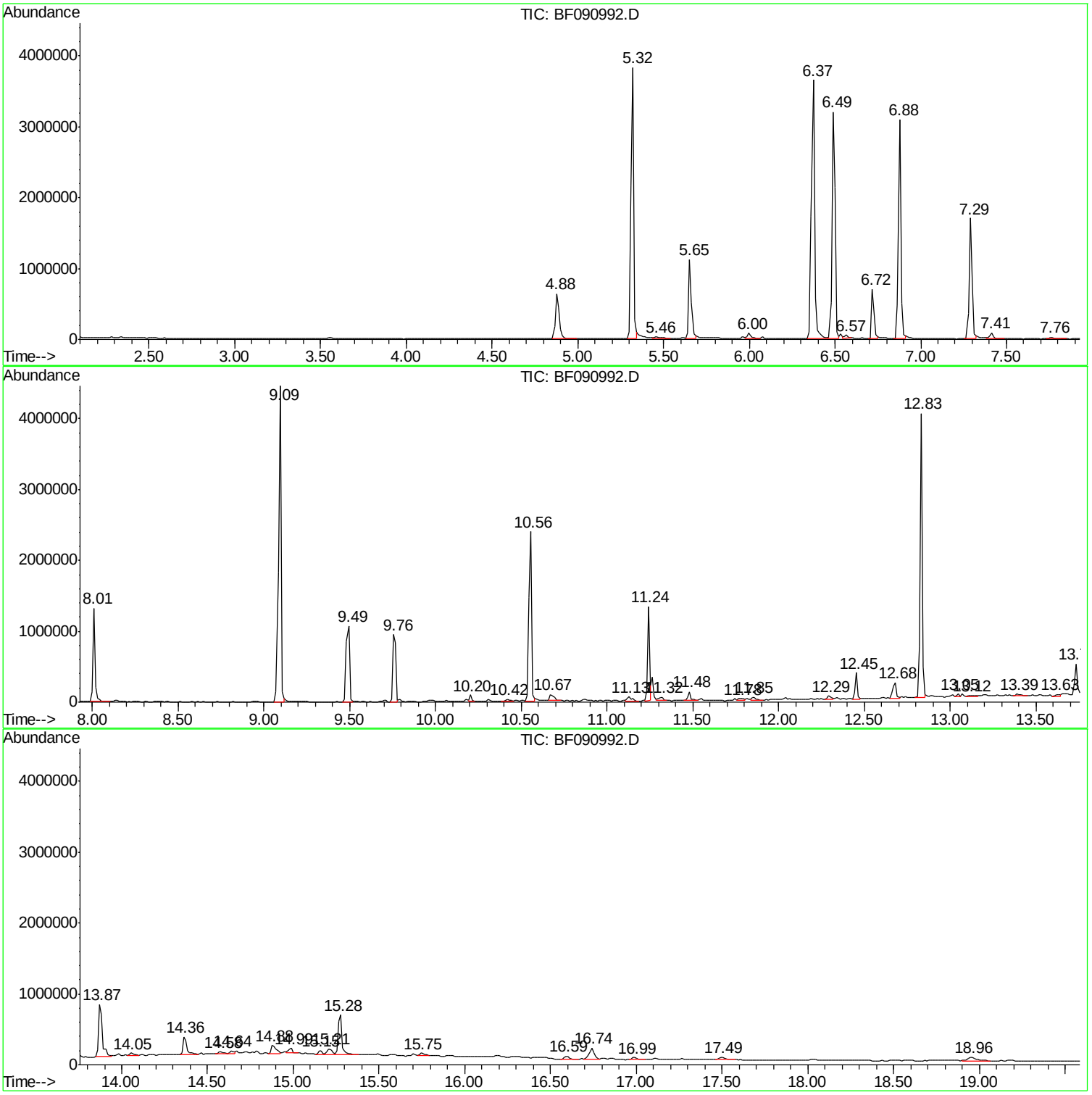
Sum of corrected areas: 43291135

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

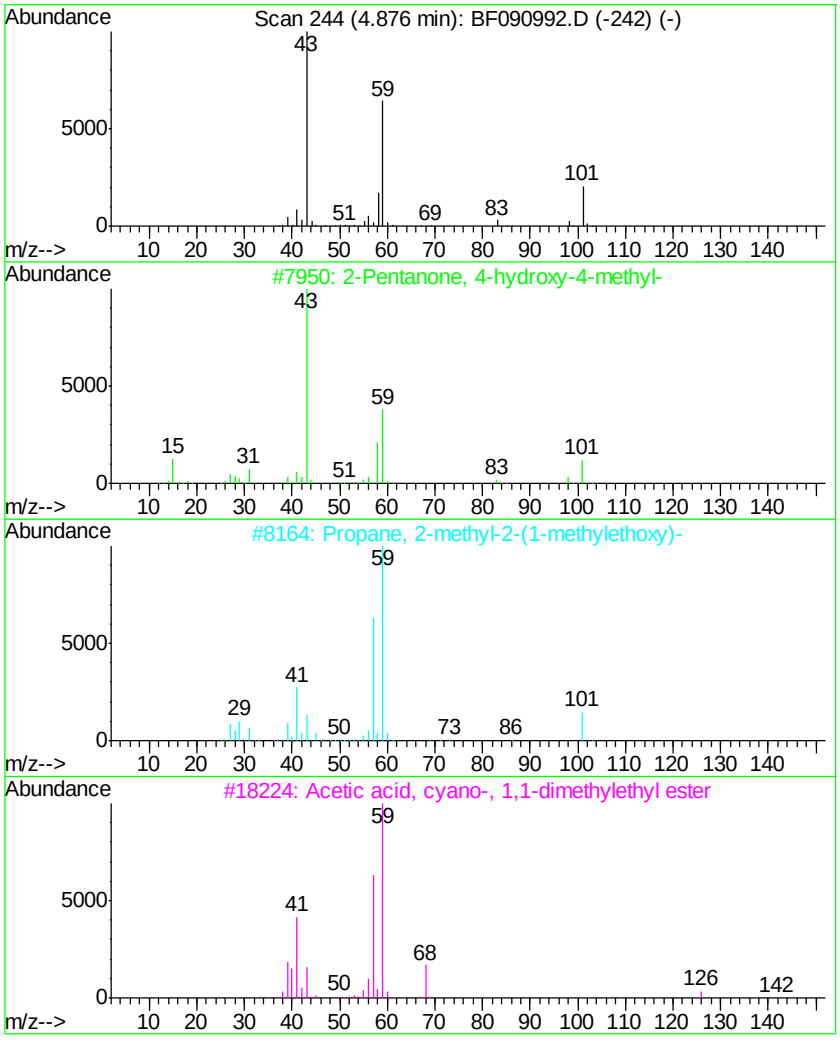
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

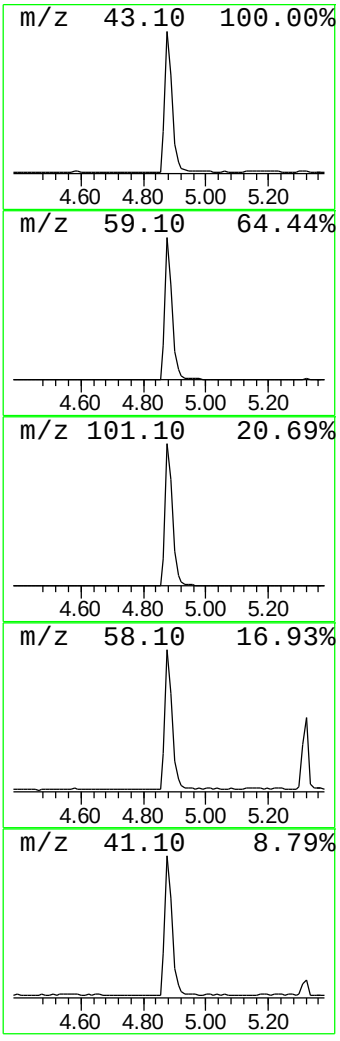
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.88 | 25.03 ng | 1012380 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 53 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 28 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | Acetone | 58 | C3H6O | 000067-64-1 | 9 |
| 5 | Guanidine | 59 | CH5N3 | 000113-00-8 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

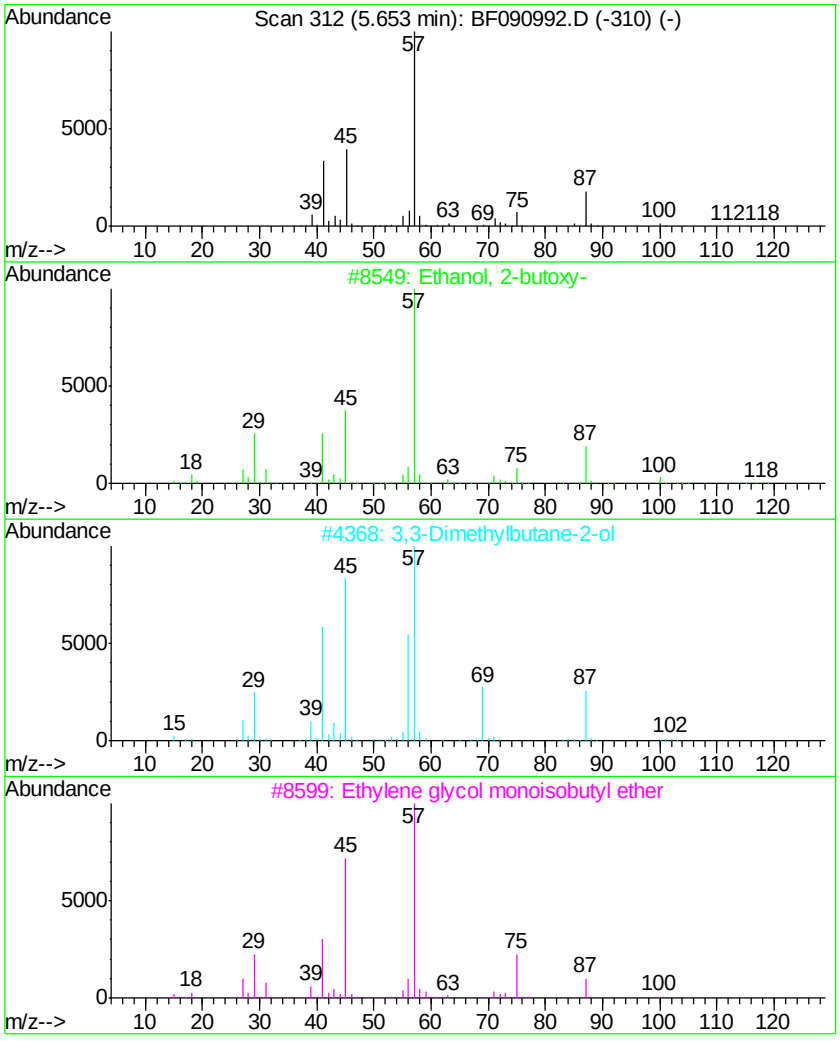
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

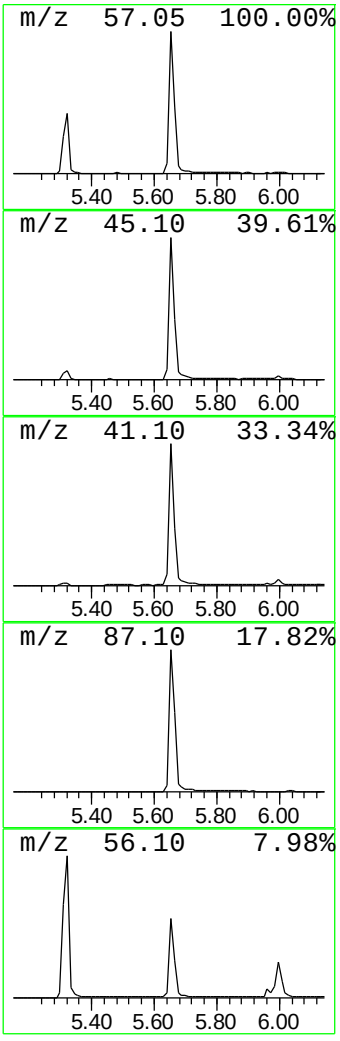
**********

Peak Number 2 Ethanol, 2-butoxy- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.65 | 30.24 ng | 1222920 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-butoxy- | 118 | C6H14O2 | 000111-76-2 | 78 |
| 2 | 3,3-Dimethylbutane-2-ol | 102 | C6H14O | 000464-07-3 | 42 |
| 3 | Ethylene glycol monoisobutyl ether | 118 | C6H14O2 | 004439-24-1 | 36 |
| 4 | Propanoic acid, 2-methylpropyl e... | 130 | C7H14O2 | 000540-42-1 | 25 |
| 5 | n-Butyl ether | 130 | C8H18O | 000142-96-1 | 16 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

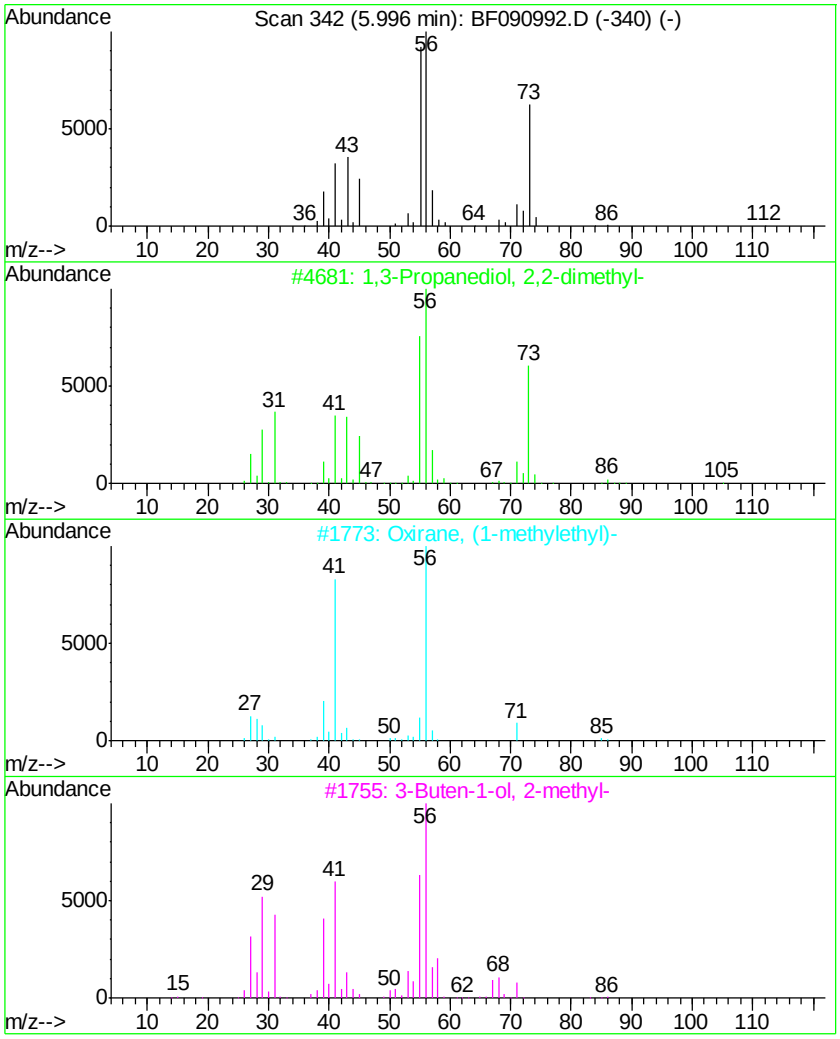
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

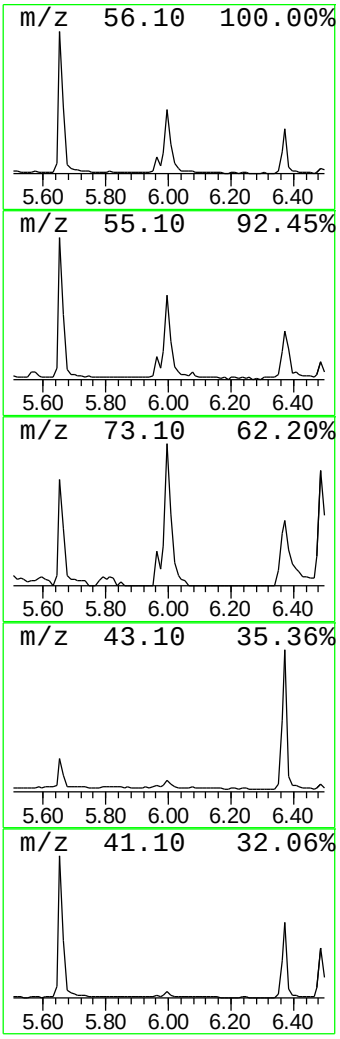
**********

Peak Number 3 1,3-Propanediol, 2,2-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.00 | 2.42 ng | 97857 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Propanediol, 2,2-dimethyl- | 104 | C5H12O2 | 000126-30-7 | 83 |
| 2 | Oxirane, (1-methylethyl)- | 86 | C5H10O | 001438-14-8 | 49 |
| 3 | 3-Buten-1-ol, 2-methyl- | 86 | C5H10O | 004516-90-9 | 36 |
| 4 | Pentanal, 3-methyl- | 100 | C6H12O | 015877-57-3 | 33 |
| 5 | 1-Hepten-4-ol | 114 | C7H14O | 003521-91-3 | 10 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

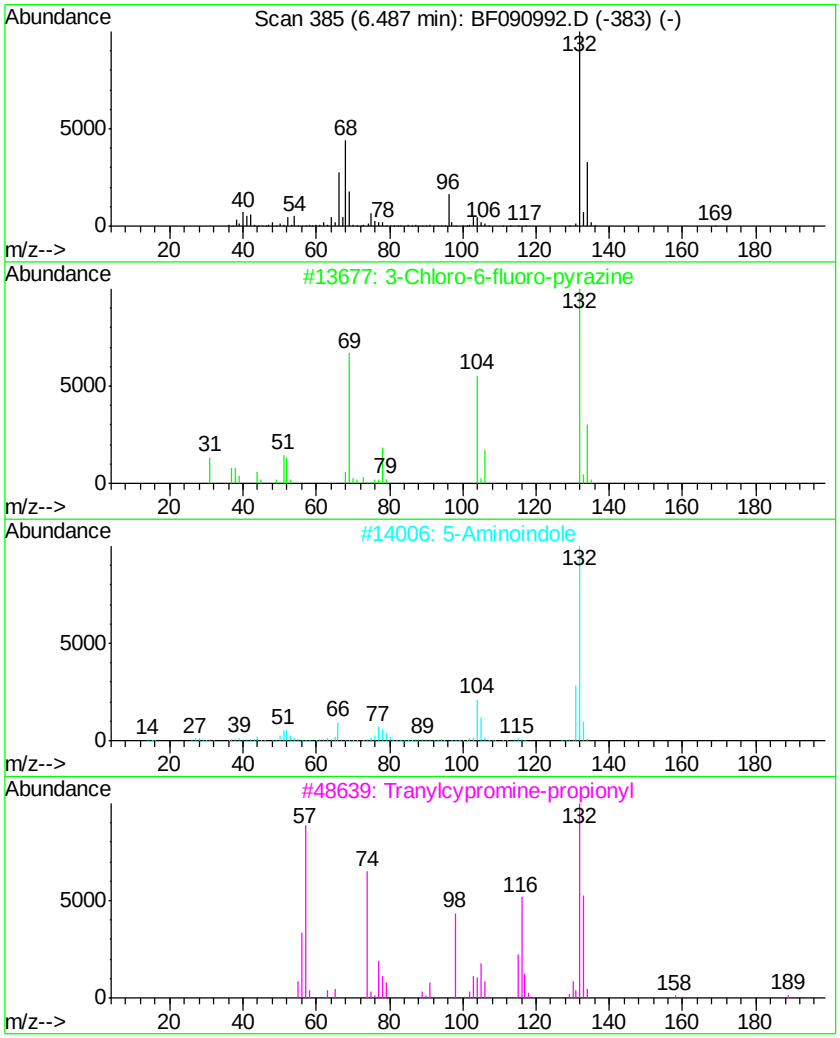
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

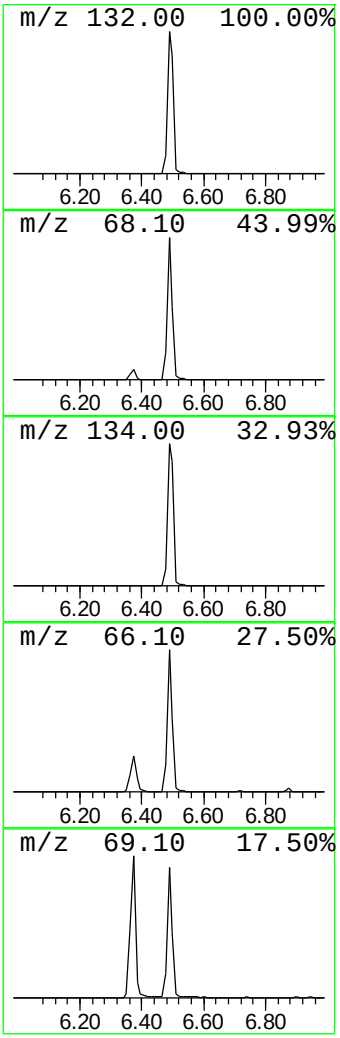
**********

Peak Number 4 unknown6.49 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.49 | 100.98 ng | 4083810 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 5 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

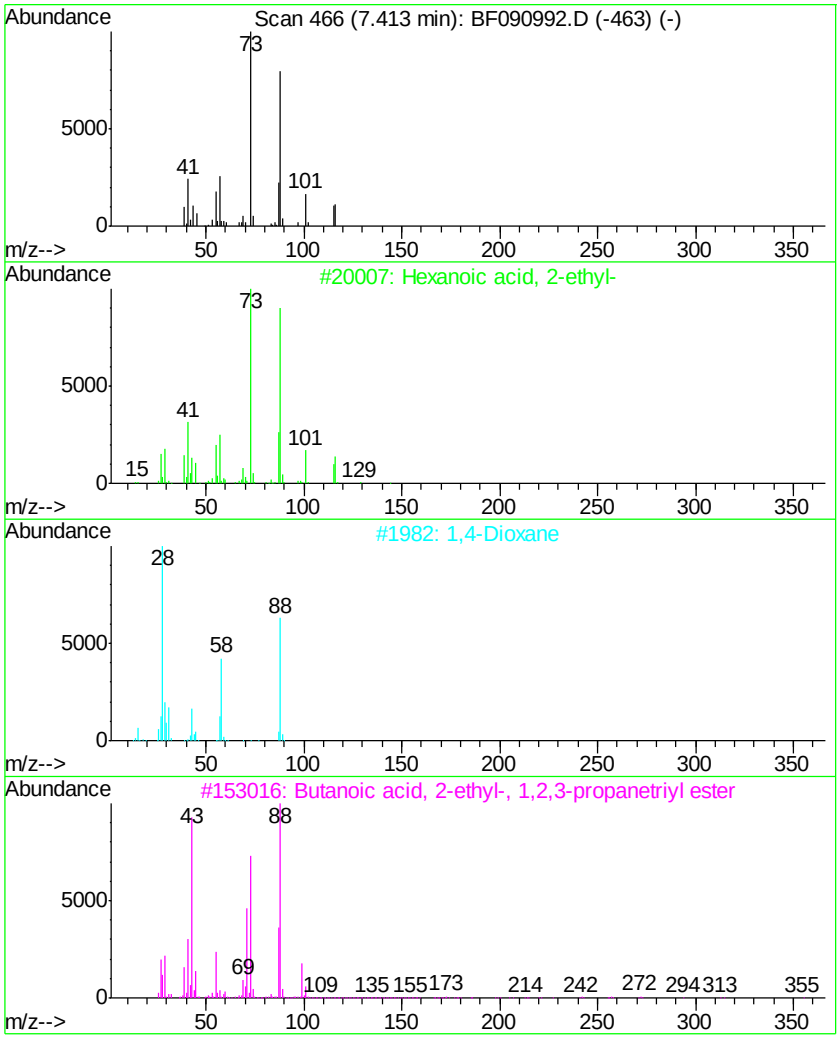
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

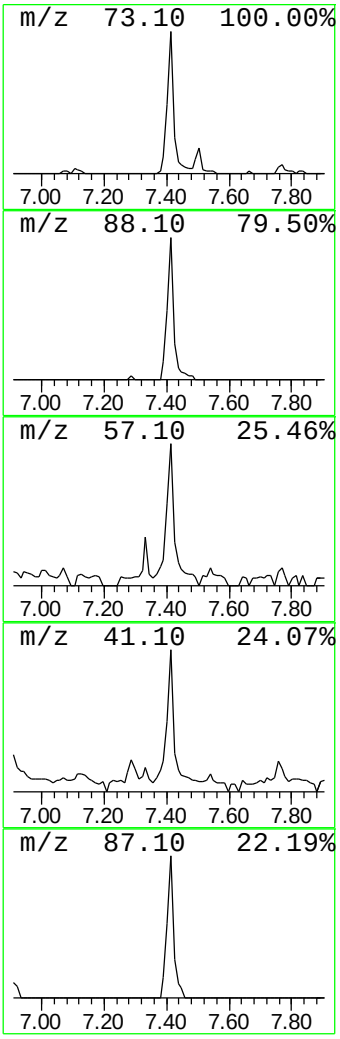
**********

Peak Number 6 Hexanoic acid, 2-ethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.41 | 2.17 ng | 131040 | Naphthalene-d8 | 8.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, 2-ethyl- | 144 | C8H16O2 | 000149-57-5 | 83 |
| 2 | 1,4-Dioxane | 88 | C4H8O2 | 000123-91-1 | 37 |
| 3 | Butanoic acid, 2-ethyl-, 1,2,3-p... | 386 | C21H38O6 | 056554-54-2 | 36 |
| 4 | Pentanoic acid, 2-methyl-, methy... | 130 | C7H14O2 | 002177-77-7 | 33 |
| 5 | Methyl 2,3,4-tri-O-methyl-6-deox... | 220 | C10H20O5 | 072983-16-5 | 33 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

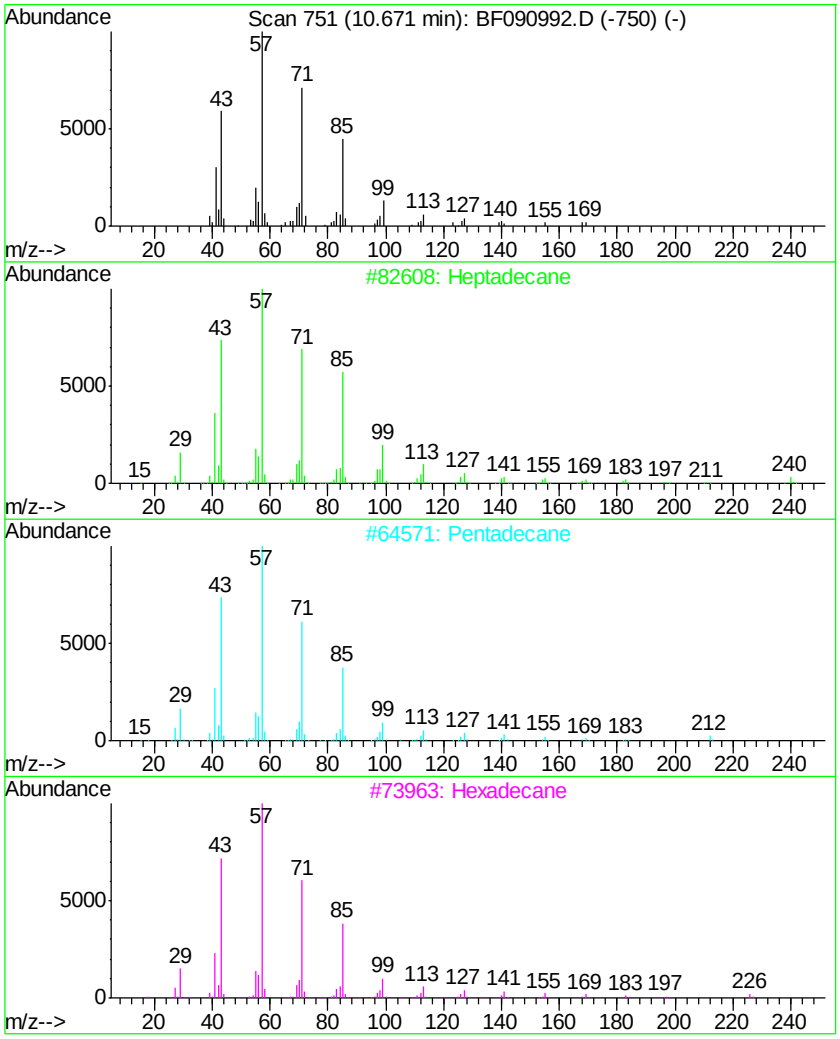
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

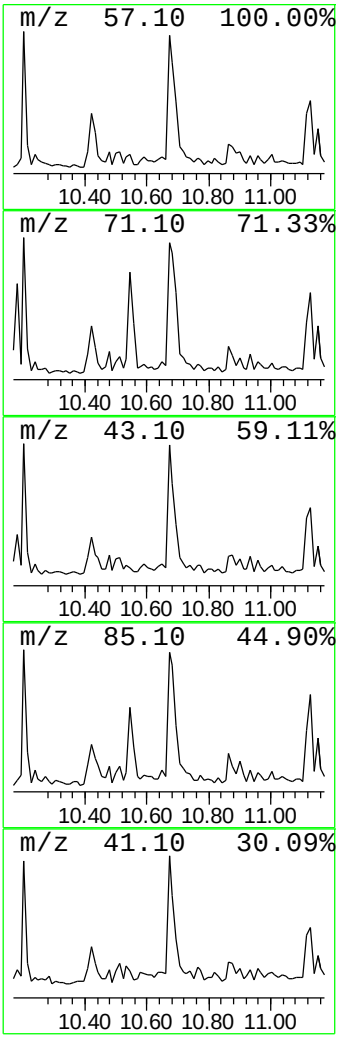
**********

Peak Number 7 Heptadecane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.67 | 2.47 ng | 142992 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 2 | Pentadecane | 212 | C15H32 | 000629-62-9 | 86 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 86 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |
| 5 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 86 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

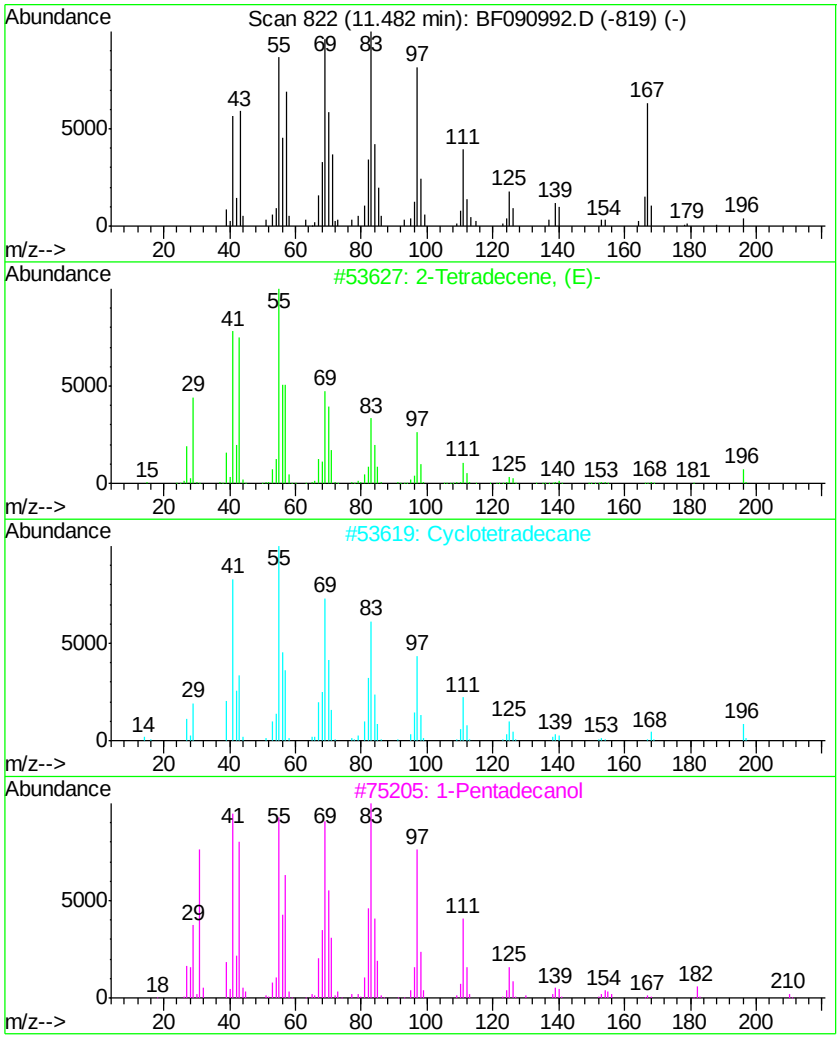
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

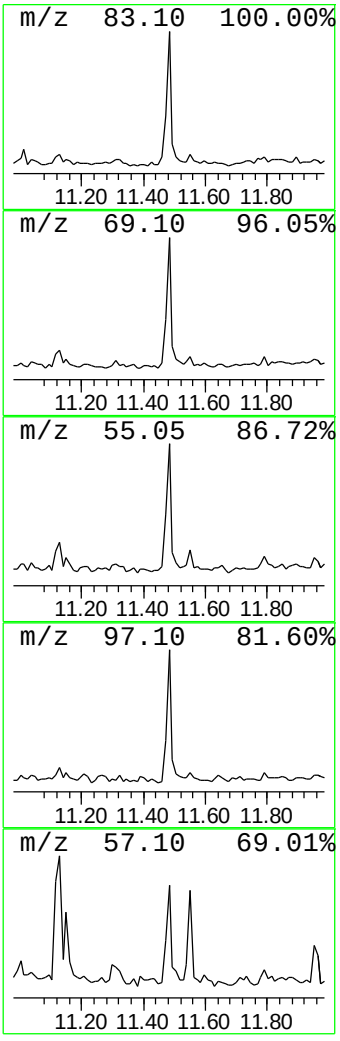
**********

Peak Number 8 2-Tetradecene, (E)- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.48 | 2.72 ng | 157554 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Tetradecene, (E)- | 196 | C14H28 | 035953-53-8 | 93 |
| 2 | Cyclotetradecane | 196 | C14H28 | 000295-17-0 | 91 |
| 3 | 1-Pentadecanol | 228 | C15H32O | 000629-76-5 | 90 |
| 4 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 90 |
| 5 | 5-Octadecene, (E)- | 252 | C18H36 | 007206-21-5 | 90 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

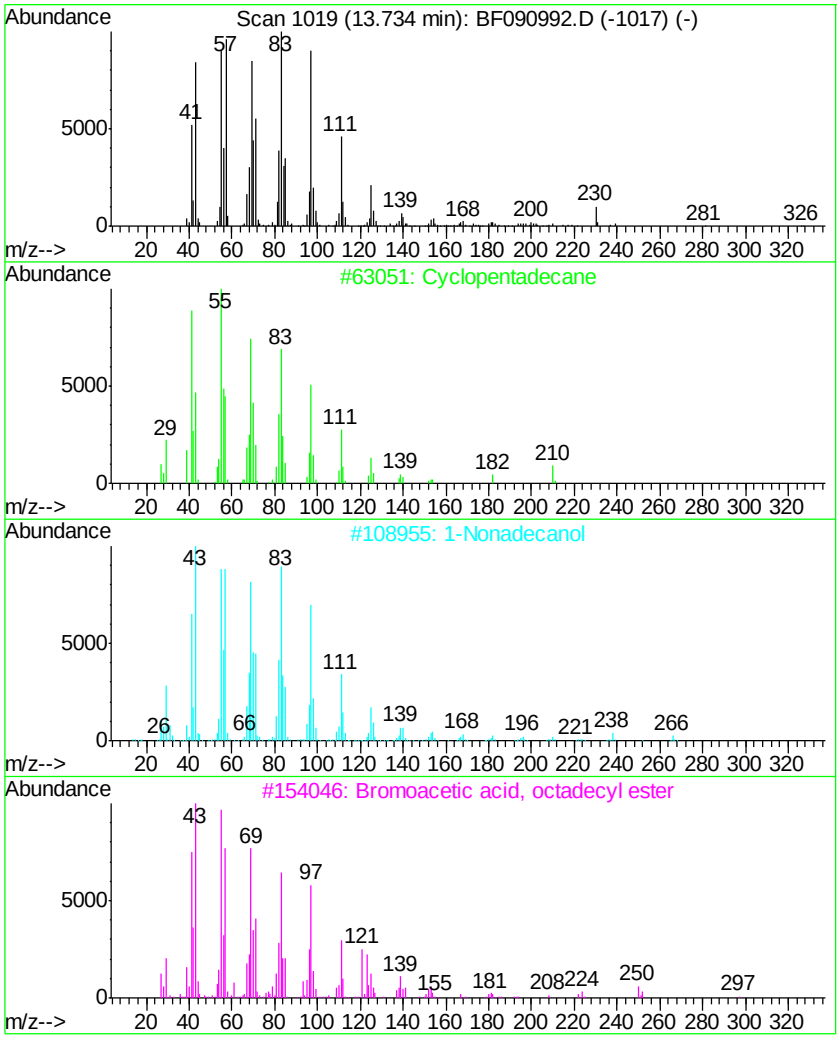
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

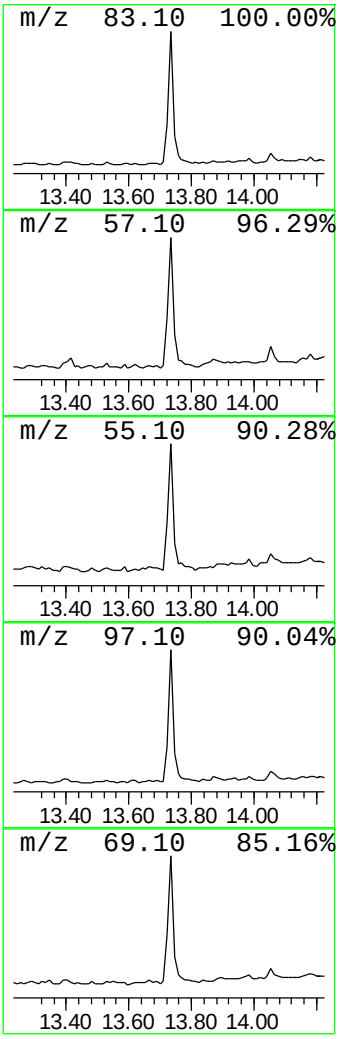
**********

Peak Number 9 Cyclopentadecane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 8.65 ng | 498761 | Chrysene-d12 | 13.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 93 |
| 2 | 1-Nonadecanol | 284 | C19H40O | 001454-84-8 | 93 |
| 3 | Bromoacetic acid, octadecyl ester | 390 | C20H39BrO2 | 018992-03-5 | 91 |
| 4 | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 91 |
| 5 | 2- Chloropropionic acid, octadec... | 360 | C21H41ClO2 | 088104-31-8 | 91 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

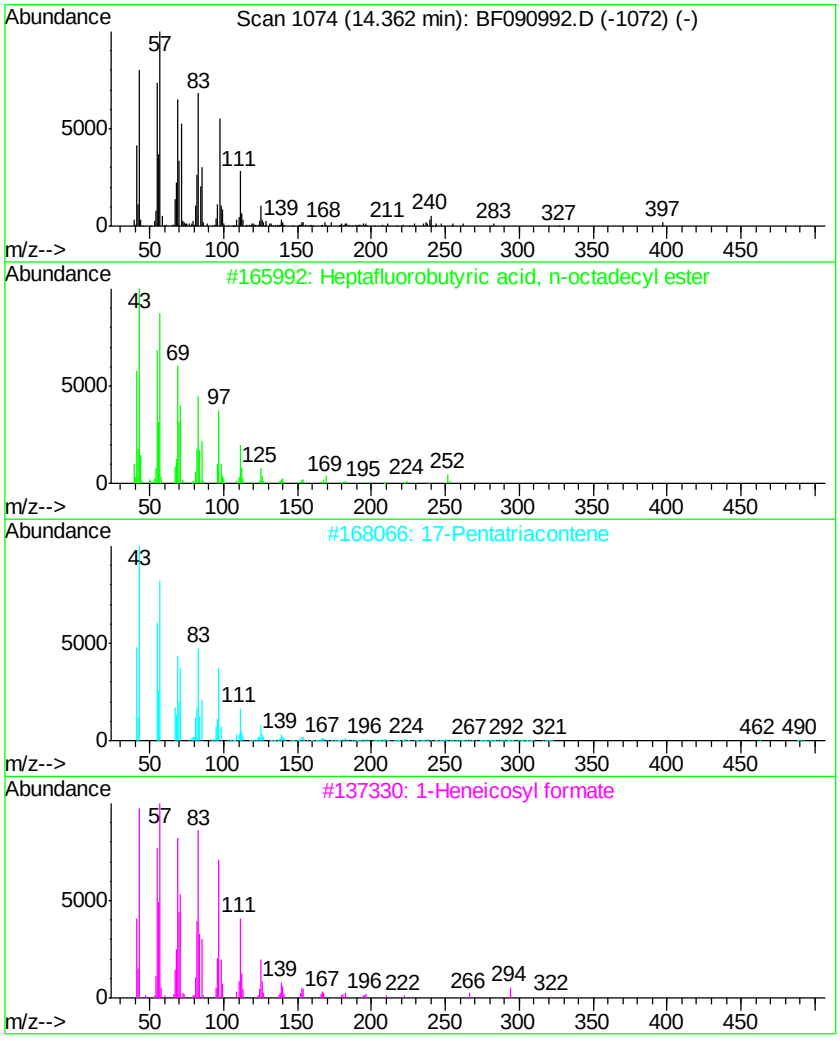
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

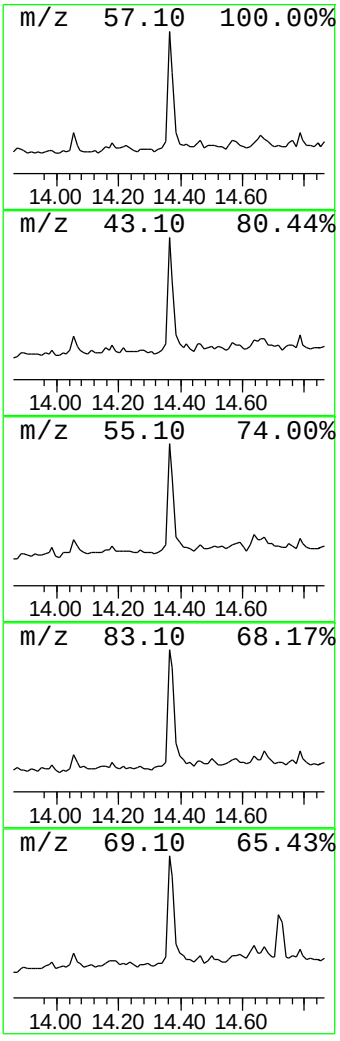
**********

Peak Number 10 Heptafluorobutyric acid, n-... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.36 | 6.82 ng | 393069 | Chrysene-d12 | 13.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2 | 000400-57-7 | 91 |
| 2 | 17-Pentatriacontene | 491 | C35H70 | 006971-40-0 | 90 |
| 3 | 1-Heneicosyl formate | 340 | C22H44O2 | 077899-03-7 | 87 |
| 4 | 1-Tricosene | 322 | C23H46 | 018835-32-0 | 87 |
| 5 | Cyclooctacosane | 392 | C28H56 | 000297-24-5 | 83 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

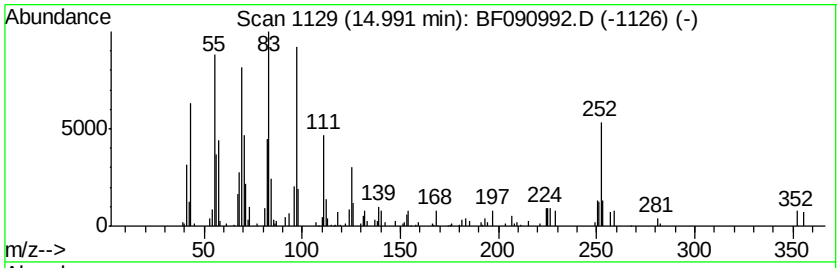
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

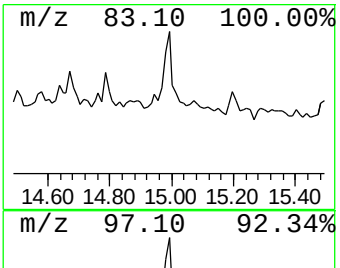
**********

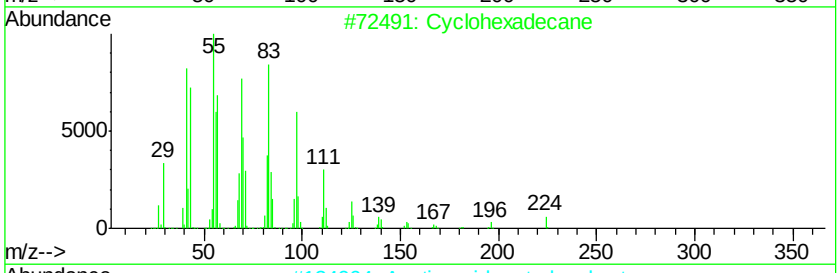
Peak Number 11 Cyclohexadecane Concentration Rank 11

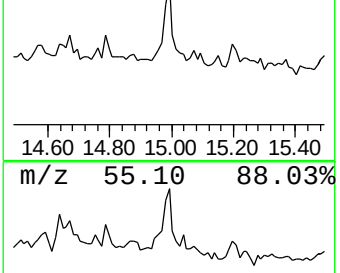
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.99 | 2.68 ng | 120900 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexadecane | 224 | C16H32 | 000295-65-8 | 64 |
| 2 | Acetic acid, octadecyl ester | 312 | C20H40O2 | 000822-23-1 | 64 |
| 3 | E-7-Octadecene | 252 | C18H36 | 1000130-92-0 | 60 |
| 4 | 1-Octadecanol | 270 | C18H38O | 000112-92-5 | 58 |
| 5 | 2,6-Dodecadien-1-ol, 3,7,11-trim... | 224 | C15H28O | 020576-56-1 | 45 |



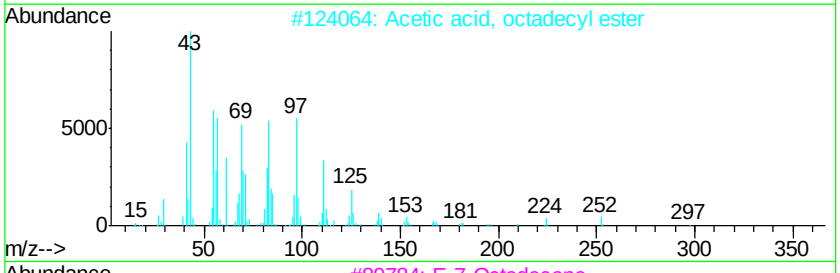



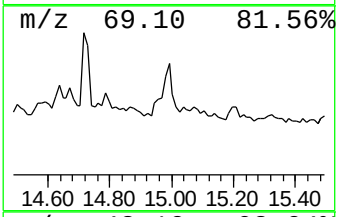



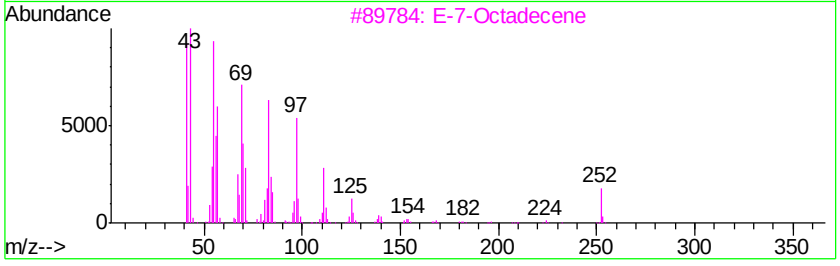



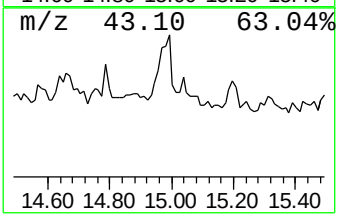






Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

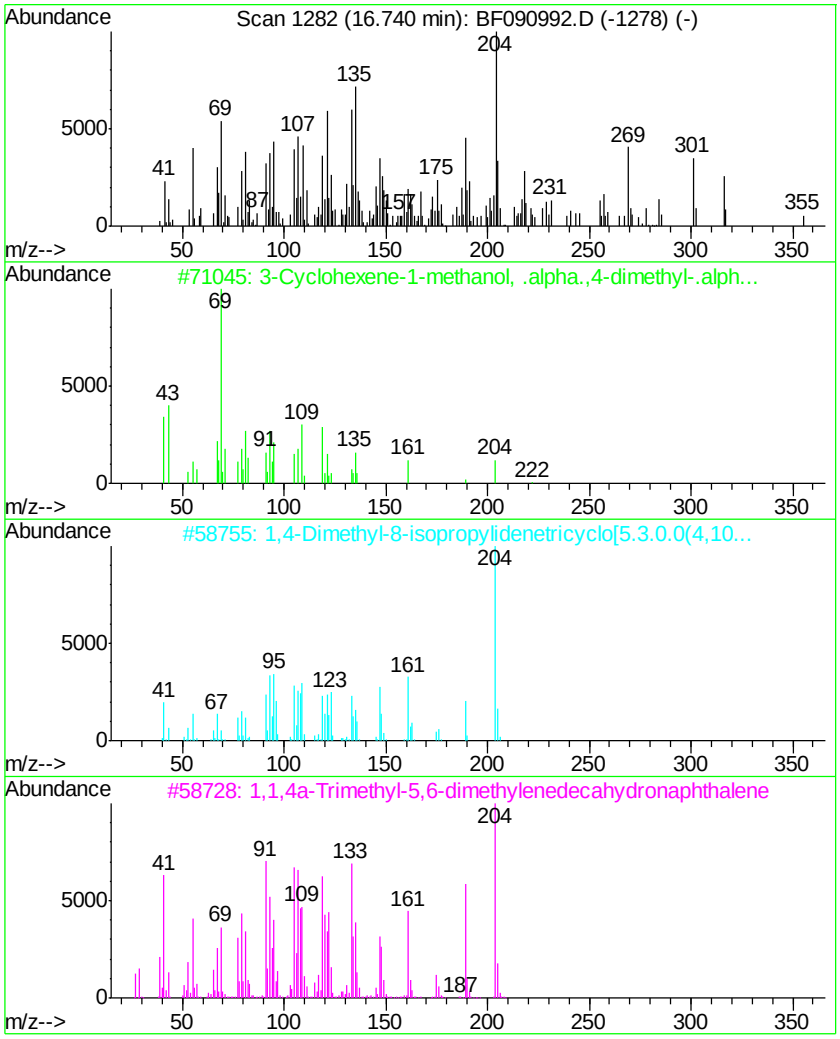
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

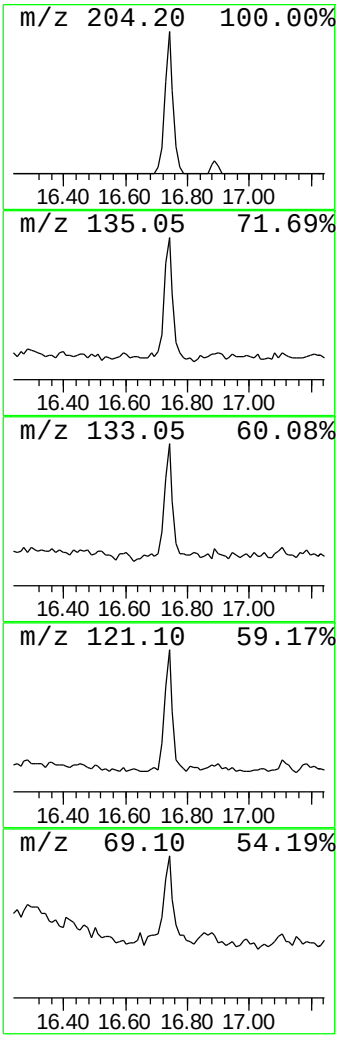
**********

Peak Number 13 3-Cyclohexene-1-methanol, .... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.74 | 6.43 ng | 290094 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Cyclohexene-1-methanol, .alpha... | 222 | C15H26O | 023178-88-3 | 55 |
| 2 | 1,4-Dimethyl-8-isopropylidenetri... | 204 | C15H24 | 1000140-07-7 | 50 |
| 3 | 1,1,4a-Trimethyl-5,6-dimethylene... | 204 | C15H24 | 1000193-60-8 | 50 |
| 4 | 1H-3a,7-Methanoazulene, 2,3,6,7,... | 204 | C15H24 | 000560-32-7 | 49 |
| 5 | (-)-Tricyclo[6.2.1.0(4,11)]undec... | 204 | C15H24 | 1000154-06-7 | 47 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

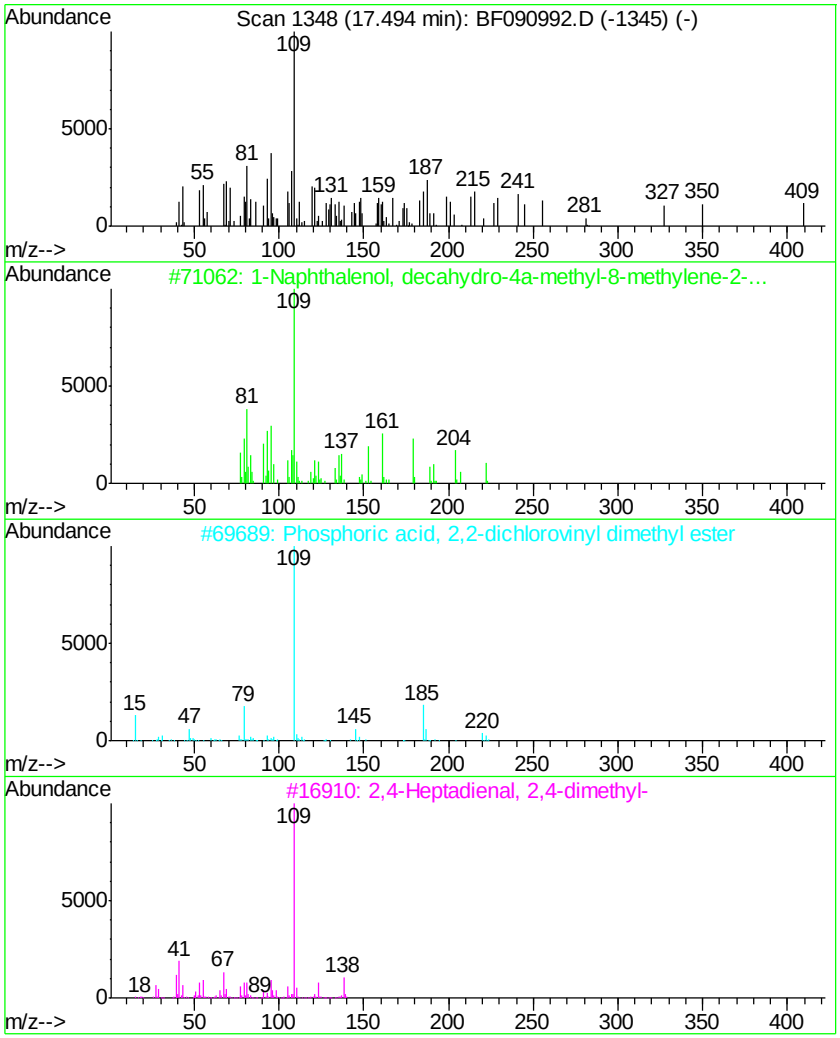
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

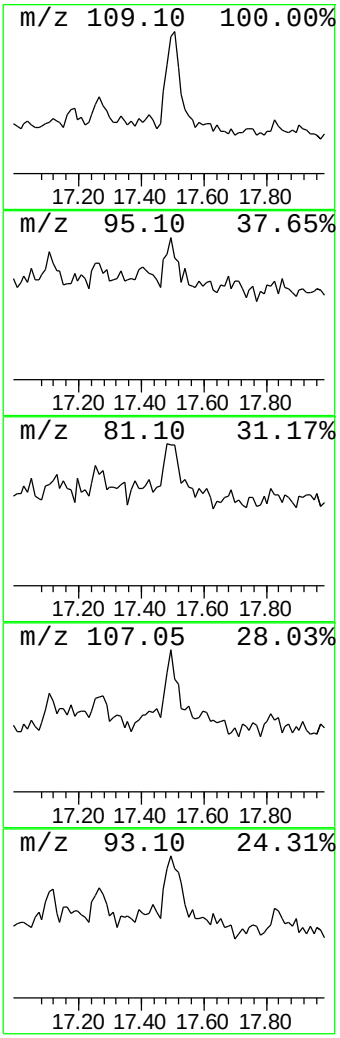
**********

Peak Number 14 unknown17.49 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.49 | 2.14 ng | 96392 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthalenol, decahydro-4a-met... | 222 | C15H26O | 030951-17-8 | 32 |
| 2 | Phosphoric acid, 2,2-dichlorovin... | 220 | C4H7Cl2O4P | 000062-73-7 | 27 |
| 3 | 2,4-Heptadienal, 2,4-dimethyl- | 138 | C9H14O | 042452-48-2 | 27 |
| 4 | N-Cyclopropyl-p-fluorobenzylamine | 165 | C10H12FN | 1000250-88-9 | 27 |
| 5 | trans-1,2-Bis(bromomethyl)cycloh... | 268 | C8H14Br2 | 1000216-87-8 | 23 |



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

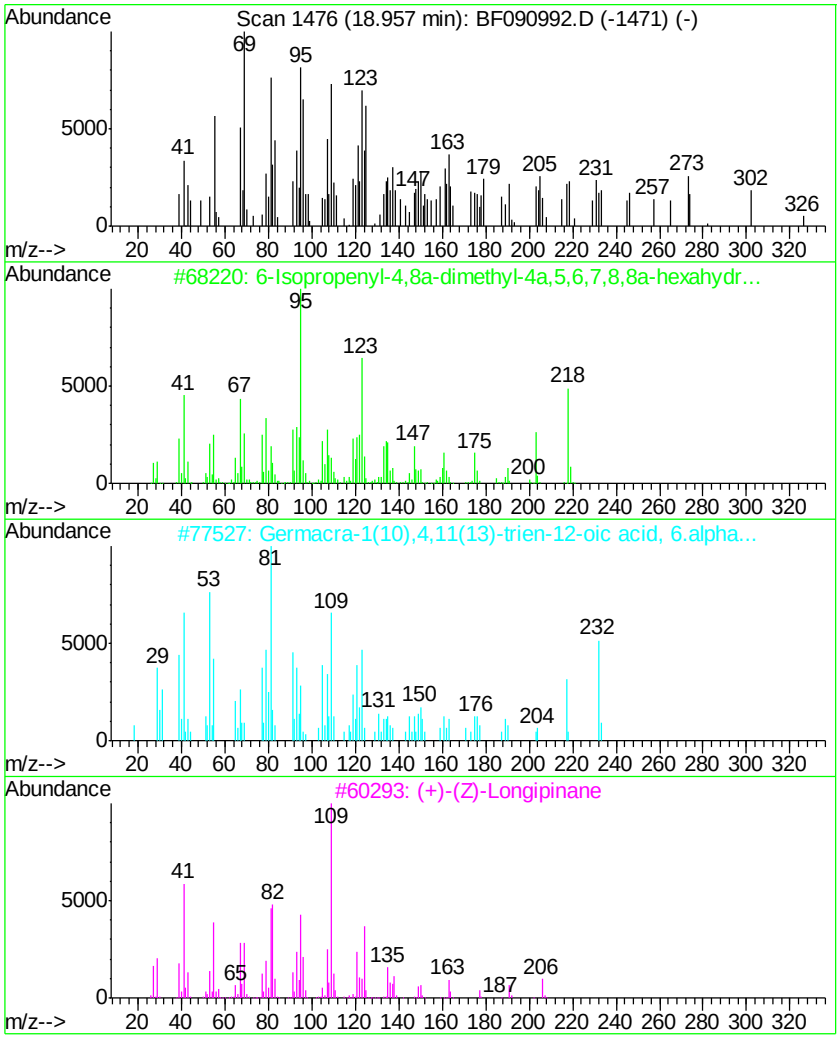
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

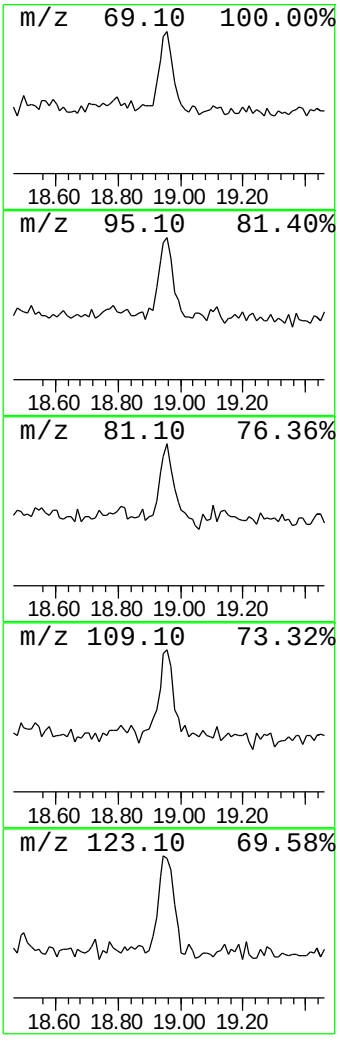
**********

Peak Number 15 6-Isopropenyl-4,8a-dimethyl... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.96 | 4.46 ng | 201328 | Perylene-d12 | 15.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6-Isopropenyl-4,8a-dimethyl-4a,5... | 218 | C15H22O | 086917-79-5 | 66 |
| 2 | Germacra-1(10),4,11(13)-trien-12... | 232 | C15H20O2 | 000553-21-9 | 52 |
| 3 | (+)-(Z)-Longipinane | 206 | C15H26 | 1000156-12-3 | 44 |
| 4 | 2,2,6-Trimethyl-1-(2-methyl-cycl... | 218 | C15H22O | 1000188-72-8 | 42 |
| 5 | Sesquirosefuran | 218 | C15H22O | 039007-93-7 | 38 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110216\
Data File : BF090992.D
Acq On : 2 Nov 2016 20:56
Operator : UM/SJ
Sample : H5509-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB-94-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF102616.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... | 4.88 | 25.0 | ng | 1012380 | 1 | 6.72 | 808839 | 20.0 |
| Ethanol, 2-butoxy- | 5.65 | 30.2 | ng | 1222920 | 1 | 6.72 | 808839 | 20.0 |
| 1,3-Propanediol, ... | 6.00 | 2.4 | ng | 97857 | 1 | 6.72 | 808839 | 20.0 |
| unknown6.49 | 6.49 | 101.0 | ng | 4083810 | 1 | 6.72 | 808839 | 20.0 |
| Hexanoic acid, 2-... | 7.41 | 2.2 | ng | 131040 | 2 | 8.01 | 1210530 | 20.0 |
| Heptadecane | 10.67 | 2.5 | ng | 142992 | 4 | 11.24 | 1156850 | 20.0 |
| 2-Tetradecene, (E)- | 11.48 | 2.7 | ng | 157554 | 4 | 11.24 | 1156850 | 20.0 |
| Cyclopentadecane | 13.73 | 8.7 | ng | 498761 | 5 | 13.88 | 1152600 | 20.0 |
| Heptafluorobutyri... | 14.36 | 6.8 | ng | 393069 | 5 | 13.88 | 1152600 | 20.0 |
| Cyclohexadecane | 14.99 | 2.7 | ng | 120900 | 6 | 15.28 | 902438 | 20.0 |
| 3-Cyclohexene-1-m... | 16.74 | 6.4 | ng | 290094 | 6 | 15.28 | 902438 | 20.0 |
| unknown17.49 | 17.49 | 2.1 | ng | 96392 | 6 | 15.28 | 902438 | 20.0 |
| 6-Isopropenyl-4,8... | 18.96 | 4.5 | ng | 201328 | 6 | 15.28 | 902438 | 20.0 |