LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

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-BF060716.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 | 1.724 | 10 | 12 | 20 | rVB | 134674 | 213145 | 10.31% | 0.940% |
| 2 | 1.850 | 20 | 23 | 34 | rVV | 732427 | 1156448 | 55.93% | 5.102% |
| 3 | 1.998 | 34 | 36 | 51 | rVB3 | 31355 | 105595 | 5.11% | 0.466% |
| 4 | 4.959 | 292 | 295 | 300 | rVB | 80647 | 135758 | 6.57% | 0.599% |
| 5 | 5.382 | 329 | 332 | 334 | rBV | 1942542 | 2067839 | 100.00% | 9.123% |
| 6 | 6.422 | 420 | 423 | 426 | rBV | 1656351 | 1808690 | 87.47% | 7.979% |
| 7 | 6.547 | 432 | 434 | 437 | rBV | 1777250 | 1912282 | 92.48% | 8.436% |
| 8 | 6.787 | 452 | 455 | 457 | rBV | 452211 | 606436 | 29.33% | 2.675% |
| 9 | 6.936 | 466 | 468 | 471 | rVB | 1586303 | 1451901 | 70.21% | 6.405% |
| 10 | 7.199 | 487 | 491 | 497 | rVB3 | 14779 | 23819 | 1.15% | 0.105% |
| 11 | 7.347 | 501 | 504 | 506 | rVB | 1235706 | 1200525 | 58.06% | 5.296% |
| 12 | 8.068 | 565 | 567 | 571 | rBV | 942421 | 821546 | 39.73% | 3.624% |
| 13 | 9.153 | 659 | 662 | 664 | rBV | 1665302 | 1857847 | 89.84% | 8.196% |
| 14 | 9.290 | 671 | 674 | 677 | rVB | 22083 | 23545 | 1.14% | 0.104% |
| 15 | 9.542 | 694 | 696 | 698 | rVB | 390214 | 353352 | 17.09% | 1.559% |
| 16 | 9.759 | 711 | 715 | 718 | rBV | 16129 | 31560 | 1.53% | 0.139% |
| 17 | 9.828 | 718 | 721 | 723 | rBV | 837278 | 844180 | 40.82% | 3.724% |
| 18 | 10.262 | 758 | 759 | 761 | rVB | 36510 | 26189 | 1.27% | 0.116% |
| 19 | 10.365 | 767 | 768 | 772 | rVB3 | 18953 | 23474 | 1.14% | 0.104% |
| 20 | 10.479 | 775 | 778 | 780 | rBV | 16654 | 25248 | 1.22% | 0.111% |
| 21 | 10.616 | 787 | 790 | 792 | rBV2 | 793129 | 1068492 | 51.67% | 4.714% |
| 22 | 10.731 | 799 | 800 | 805 | rBV | 52852 | 76403 | 3.69% | 0.337% |
| 23 | 11.188 | 837 | 840 | 841 | rBV | 27614 | 44070 | 2.13% | 0.194% |
| 24 | 11.302 | 848 | 850 | 854 | rBV | 715403 | 817529 | 39.54% | 3.607% |
| 25 | 11.428 | 858 | 861 | 862 | rBV2 | 11213 | 22081 | 1.07% | 0.097% |
| 26 | 11.531 | 868 | 870 | 871 | rBV2 | 18014 | 26776 | 1.29% | 0.118% |
| 27 | 11.611 | 875 | 877 | 880 | rVV2 | 38039 | 56170 | 2.72% | 0.248% |
| 28 | 11.805 | 892 | 894 | 895 | rBV | 28174 | 42312 | 2.05% | 0.187% |
| 29 | 12.091 | 917 | 919 | 921 | rBV2 | 42665 | 50449 | 2.44% | 0.223% |
| 30 | 12.525 | 954 | 957 | 958 | rBV | 199543 | 201772 | 9.76% | 0.890% |
| 31 | 12.559 | 958 | 960 | 963 | rVB | 64832 | 65923 | 3.19% | 0.291% |
| 32 | 12.742 | 973 | 976 | 978 | rBV | 245215 | 282452 | 13.66% | 1.246% |
| 33 | 12.777 | 978 | 979 | 980 | rVB | 53347 | 36907 | 1.78% | 0.163% |
| 34 | 12.891 | 987 | 989 | 991 | rBV | 1364291 | 1198402 | 57.95% | 5.287% |

LSC Area Percent Report

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Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

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-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 13.028 | 999 | 1001 | 1002 | rBV | 69125 | 60878 | 2.94% | 0.269% |
| 36 | 13.074 | 1003 | 1005 | 1007 | rVB | 62841 | 73792 | 3.57% | 0.326% |
| 37 | 13.131 | 1008 | 1010 | 1012 | rBV2 | 78914 | 94567 | 4.57% | 0.417% |
| 38 | 13.177 | 1012 | 1014 | 1017 | rVB | 53986 | 70694 | 3.42% | 0.312% |
| 39 | 13.394 | 1031 | 1033 | 1035 | rBV | 251486 | 249971 | 12.09% | 1.103% |
| 40 | 13.474 | 1038 | 1040 | 1041 | rBV | 66993 | 72107 | 3.49% | 0.318% |
| 41 | 13.805 | 1066 | 1069 | 1071 | rVB2 | 82563 | 126534 | 6.12% | 0.558% |
| 42 | 13.942 | 1078 | 1081 | 1087 | rVB2 | 823069 | 1226795 | 59.33% | 5.412% |
| 43 | 14.114 | 1094 | 1096 | 1098 | rBV | 54641 | 71617 | 3.46% | 0.316% |
| 44 | 14.948 | 1167 | 1169 | 1174 | rBV | 240029 | 460391 | 22.26% | 2.031% |
| 45 | 15.234 | 1192 | 1194 | 1197 | rVB | 147932 | 178529 | 8.63% | 0.788% |
| 46 | 15.291 | 1197 | 1199 | 1202 | rBV | 179476 | 211092 | 10.21% | 0.931% |
| 47 | 15.348 | 1202 | 1204 | 1206 | rBV | 422601 | 565607 | 27.35% | 2.495% |
| 48 | 16.171 | 1274 | 1276 | 1281 | rVB | 62209 | 124180 | 6.01% | 0.548% |
| 49 | 16.400 | 1294 | 1296 | 1302 | rVB2 | 52395 | 118842 | 5.75% | 0.524% |
| 50 | 16.697 | 1320 | 1322 | 1328 | rVB2 | 71233 | 147102 | 7.11% | 0.649% |
| 51 | 17.108 | 1355 | 1358 | 1362 | rVB | 63971 | 135259 | 6.54% | 0.597% |

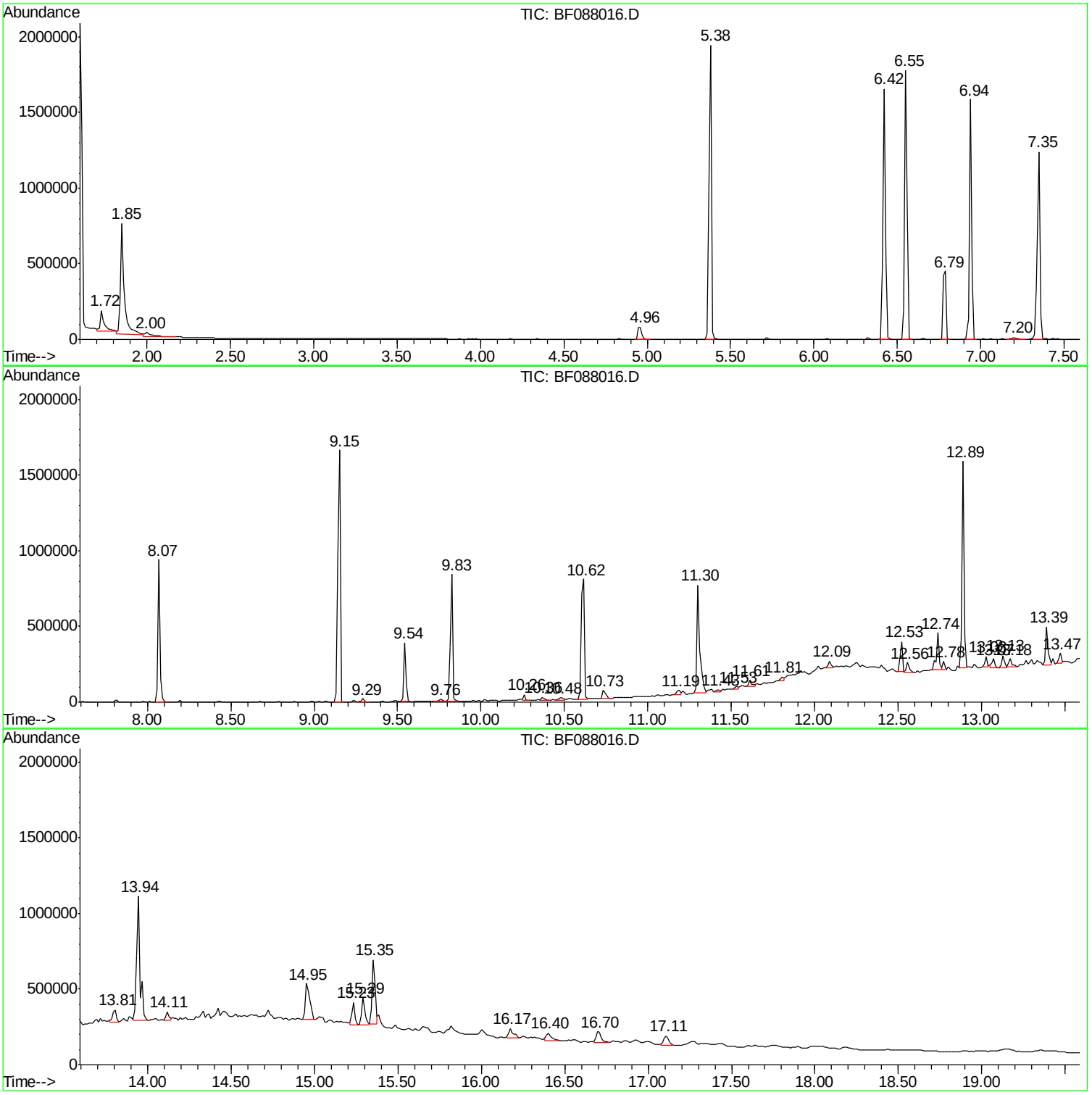
Sum of corrected areas: 22667074

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

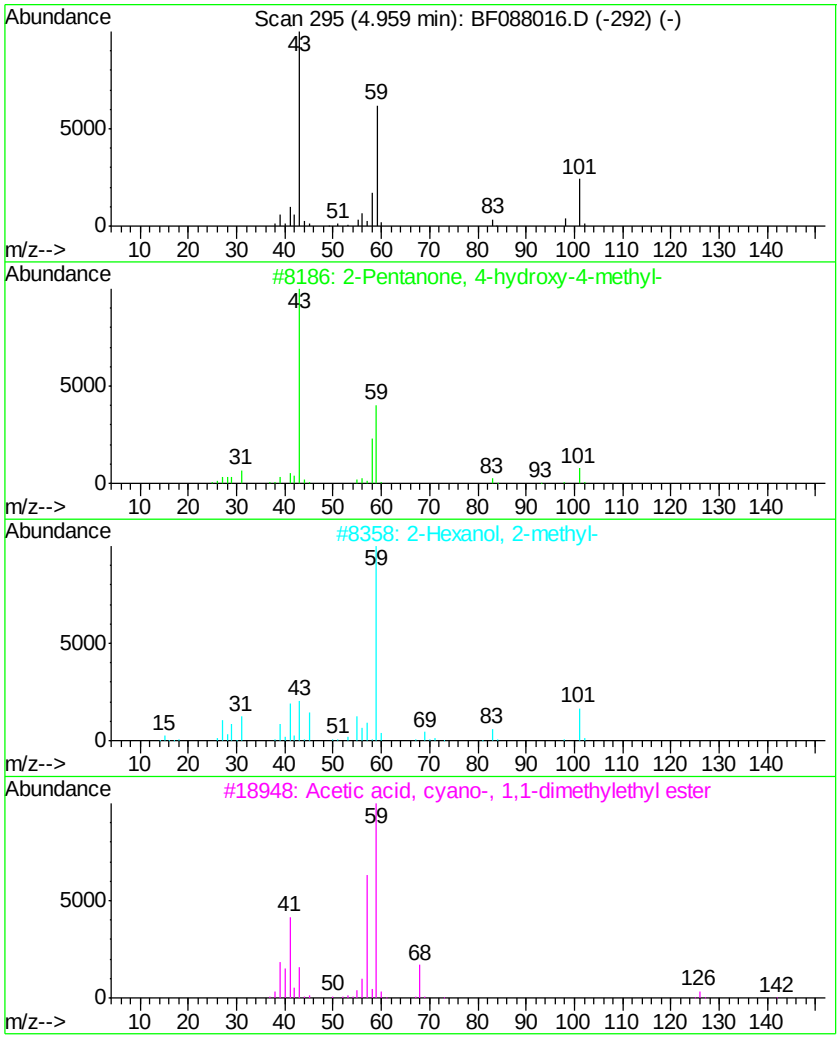
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

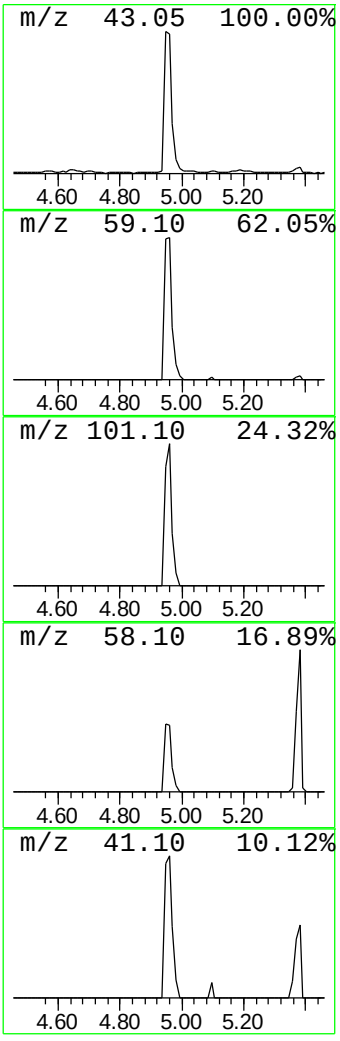
**********

Peak Number 4 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.96 | 4.48 ng | 135758 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | 2-Hexanol, 2-methyl- | 116 | C7H16O | 000625-23-0 | 23 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 12 |
| 5 | Acetone | 58 | C3H6O | 000067-64-1 | 10 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

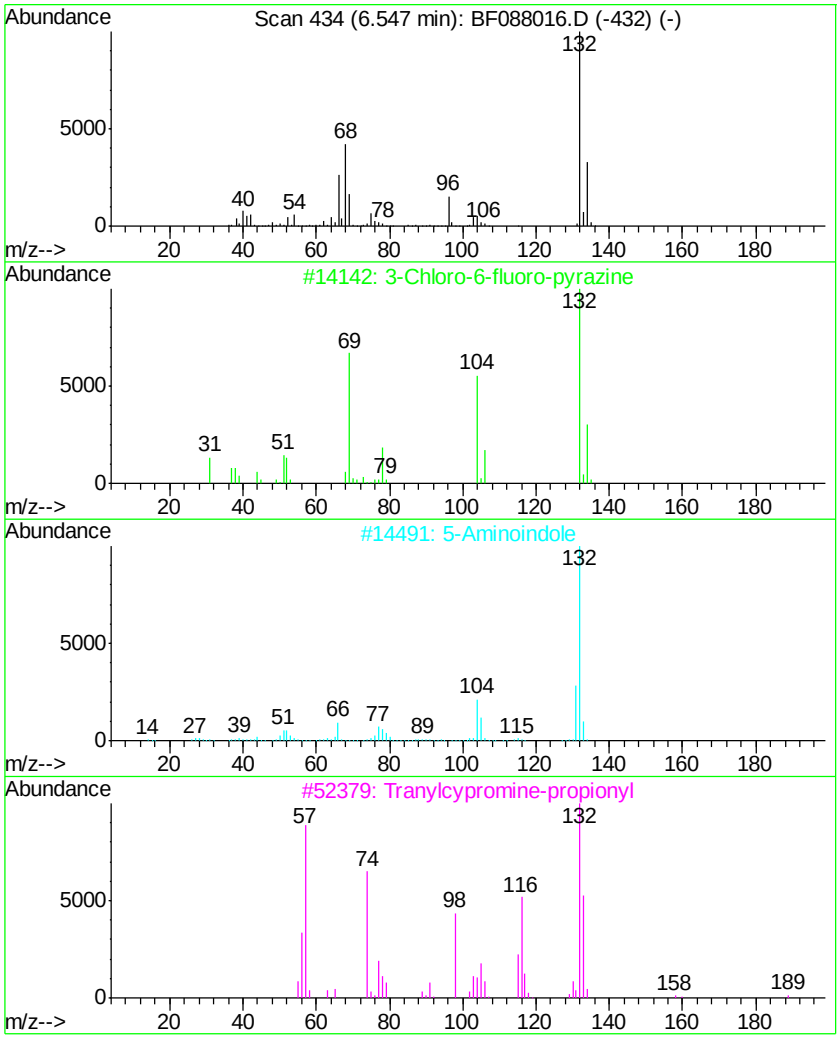
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

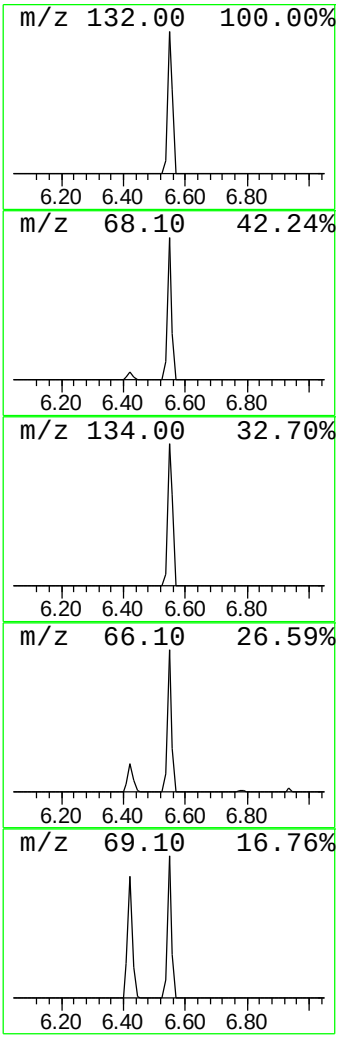
**********

Peak Number 5 unknown6.55 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.55 | 63.07 ng | 1912280 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

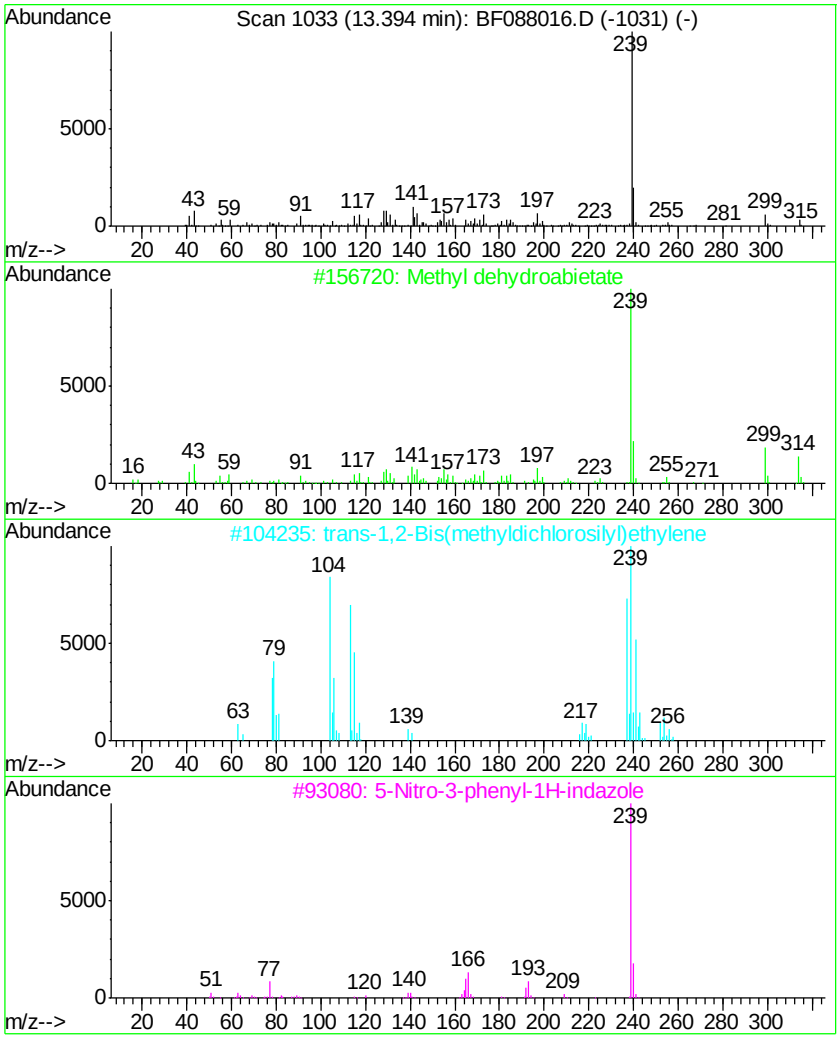
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

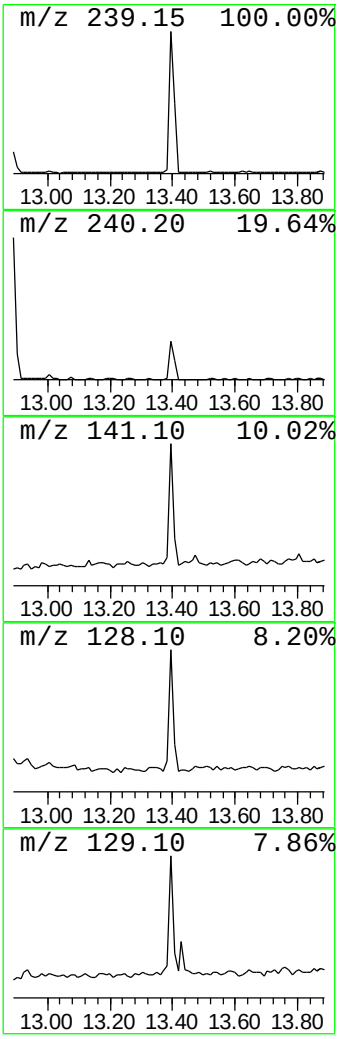
**********

Peak Number 7 Methyl dehydroabietate Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.39 | 4.08 ng | 249971 | Chrysene-d12 | 13.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Methyl dehydroabietate | 314 | C21H30O2 | 001235-74-1 | 97 |
| 2 | trans-1,2-Bis(methyldichlorosilv... | 252 | C4H8Cl4Si2 | 065899-10-7 | 60 |
| 3 | 5-Nitro-3-phenyl-1H-indazole | 239 | C13H9N3O2 | 293758-67-5 | 59 |
| 4 | Phthalic acid, 4-methoxyphenyl 3... | 362 | C22H18O5 | 1000315-68-0 | 59 |
| 5 | Phthalic acid, di(3-methylphenyl... | 346 | C22H18O4 | 1000315-37-3 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

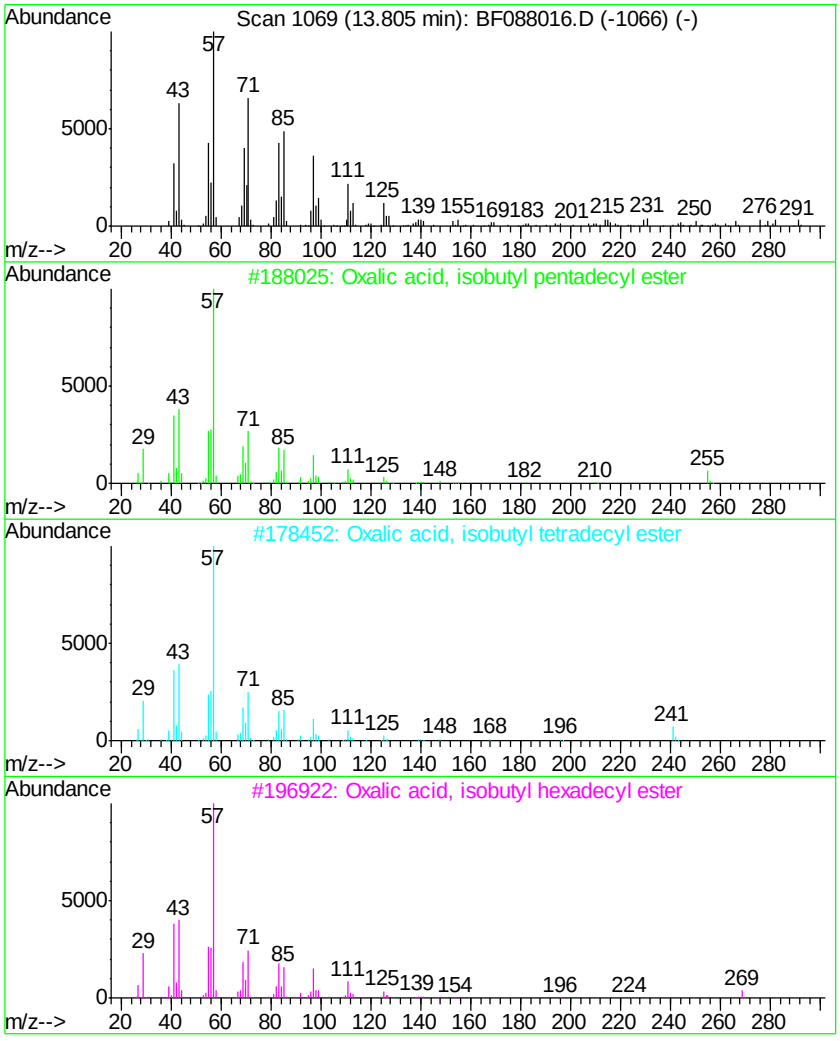
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

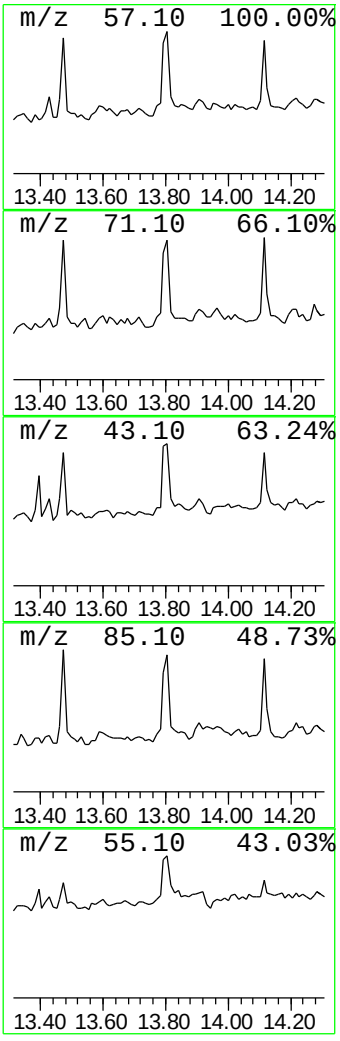
**********

Peak Number 8 Oxalic acid, isobutyl penta... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.81 | 2.06 ng | 126534 | Chrysene-d12 | 13.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxalic acid, isobutyl pentadecyl... | 356 | C21H40O4 | 1000309-38-0 | 91 |
| 2 | Oxalic acid, isobutyl tetradecyl... | 342 | C20H38O4 | 1000309-37-9 | 91 |
| 3 | Oxalic acid, isobutyl hexadecyl ... | 370 | C22H42O4 | 1000309-38-1 | 91 |
| 4 | Oxalic acid, isobutyl heptadecyl... | 384 | C23H44O4 | 1000309-38-2 | 91 |
| 5 | 1-Decanol, 2-hexyl- | 242 | C16H34O | 002425-77-6 | 87 |



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Data File : BF088016.D
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Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

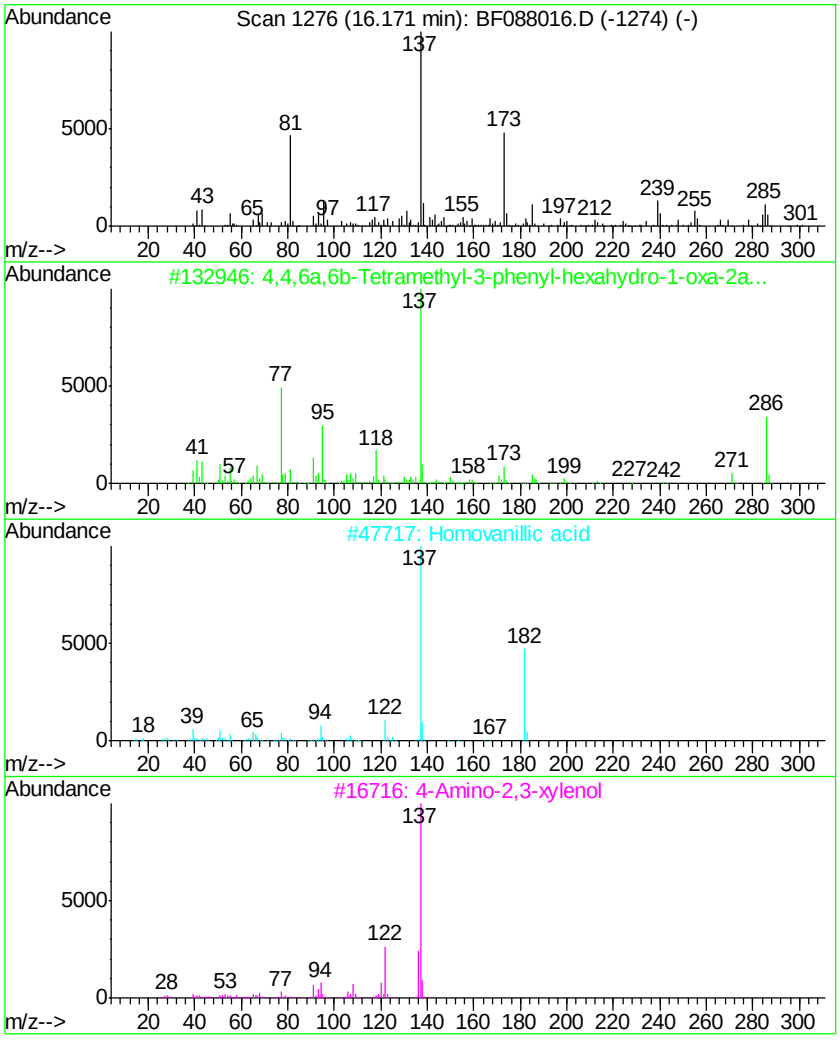
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

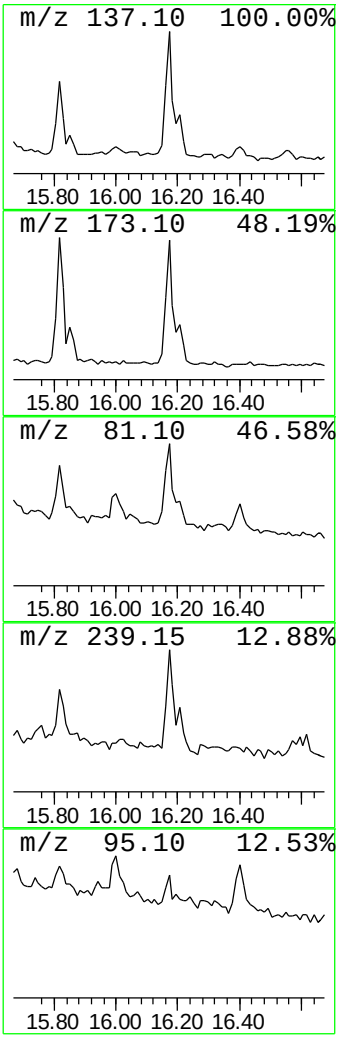
**********

Peak Number 10 unknown16.17 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.17 | 4.39 ng | 124180 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,4,6a,6b-Tetramethyl-3-phenyl-h... | 286 | C17H22N2O2 | 1000300-07-7 | 40 |
| 2 | Homovanillic acid | 182 | C9H10O4 | 000306-08-1 | 38 |
| 3 | 4-Amino-2,3-xylenol | 137 | C8H11NO | 003096-69-3 | 38 |
| 4 | Quinoline-2,2-dicarbonitrile, 1,... | 306 | C19H22N4 | 145105-90-4 | 37 |
| 5 | (4-Methoxy-phenyl)-(2-nitrocyclo... | 265 | C14H19NO4 | 103077-68-5 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

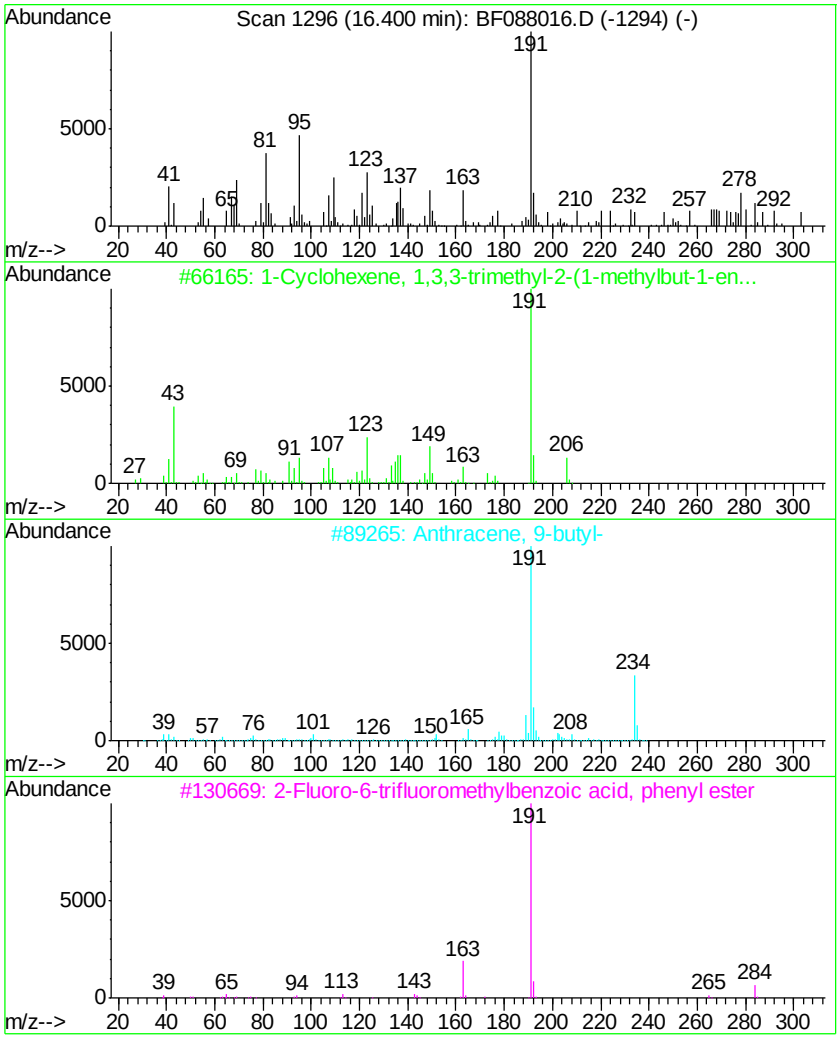
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

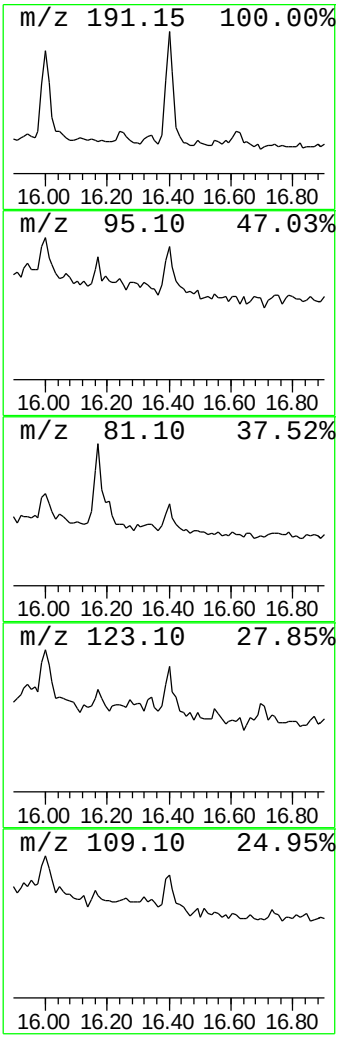
**********

Peak Number 11 unknown16.40 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.40 | 4.20 ng | 118842 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Cyclohexene, 1,3,3-trimethyl-2... | 206 | C14H22O | 1000197-08-4 | 47 |
| 2 | Anthracene, 9-butyl- | 234 | C18H18 | 001498-69-7 | 38 |
| 3 | 2-Fluoro-6-trifluoromethylbenzoi... | 284 | C14H8F4O2 | 1000357-69-4 | 38 |
| 4 | 2-Fluoro-3-trifluoromethylbenzoi... | 284 | C14H8F4O2 | 1000357-64-3 | 38 |
| 5 | Piperazine, 1-(bicyclo[2.2.1]hep... | 284 | C14H24N2O2S | 1000302-53-8 | 35 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061416\
Data File : BF088016.D
Acq On : 14 Jun 2016 23:53
Operator : UM/SJ
Sample : H3437-09
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** T6-B4(6-12)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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 |
| 2-Pentanone, 4-hy... | 4.96 | 4.5 | ng | 135758 | 1 | 6.79 | 606436 | 20.0 |
| unknown6.55 | 6.55 | 63.1 | ng | 1912280 | 1 | 6.79 | 606436 | 20.0 |
| Methyl dehydroabi... | 13.39 | 4.1 | ng | 249971 | 5 | 13.94 | 1226800 | 20.0 |
| Oxalic acid, isob... | 13.81 | 2.1 | ng | 126534 | 5 | 13.94 | 1226800 | 20.0 |
| unknown16.17 | 16.17 | 4.4 | ng | 124180 | 6 | 15.35 | 565607 | 20.0 |
| unknown16.40 | 16.40 | 4.2 | ng | 118842 | 6 | 15.35 | 565607 | 20.0 |