LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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 | 21 | rVB | 225466 | 372576 | 13.63% | 1.193% |
| 2 | 1.850 | 21 | 23 | 34 | rVV | 1131857 | 1844242 | 67.48% | 5.905% |
| 3 | 1.998 | 34 | 36 | 69 | rVB3 | 96774 | 389084 | 14.24% | 1.246% |
| 4 | 4.959 | 293 | 295 | 302 | rBV | 126971 | 190579 | 6.97% | 0.610% |
| 5 | 5.382 | 329 | 332 | 334 | rBV | 2217446 | 2281573 | 83.49% | 7.305% |
| 6 | 6.422 | 420 | 423 | 426 | rBV | 1698510 | 2495243 | 91.30% | 7.990% |
| 7 | 6.547 | 432 | 434 | 437 | rBV | 1828789 | 2501657 | 91.54% | 8.010% |
| 8 | 6.616 | 438 | 440 | 442 | rBV | 126506 | 101955 | 3.73% | 0.326% |
| 9 | 6.776 | 452 | 454 | 457 | rBV | 406549 | 559864 | 20.49% | 1.793% |
| 10 | 6.936 | 466 | 468 | 471 | rVB | 1855255 | 1886678 | 69.04% | 6.041% |
| 11 | 7.347 | 501 | 504 | 507 | rBV | 1347626 | 1510637 | 55.28% | 4.837% |
| 12 | 7.462 | 510 | 514 | 520 | rBV | 31811 | 49500 | 1.81% | 0.158% |
| 13 | 8.068 | 565 | 567 | 571 | rBV | 855677 | 749574 | 27.43% | 2.400% |
| 14 | 9.153 | 659 | 662 | 664 | rBV | 2684566 | 2732905 | 100.00% | 8.751% |
| 15 | 9.542 | 694 | 696 | 698 | rBV | 487445 | 476209 | 17.43% | 1.525% |
| 16 | 9.679 | 707 | 708 | 711 | rBV | 46616 | 53314 | 1.95% | 0.171% |
| 17 | 9.759 | 714 | 715 | 718 | rBV | 44008 | 48012 | 1.76% | 0.154% |
| 18 | 9.828 | 718 | 721 | 722 | rBV | 750208 | 777296 | 28.44% | 2.489% |
| 19 | 10.262 | 758 | 759 | 761 | rVB | 93551 | 72763 | 2.66% | 0.233% |
| 20 | 10.479 | 775 | 778 | 781 | rBV | 32867 | 56986 | 2.09% | 0.182% |
| 21 | 10.616 | 787 | 790 | 792 | rBV | 1204246 | 1412452 | 51.68% | 4.523% |
| 22 | 10.731 | 799 | 800 | 807 | rBV | 77164 | 121388 | 4.44% | 0.389% |
| 23 | 11.188 | 835 | 840 | 845 | rVB3 | 34054 | 85998 | 3.15% | 0.275% |
| 24 | 11.302 | 848 | 850 | 854 | rBV2 | 697504 | 890771 | 32.59% | 2.852% |
| 25 | 11.382 | 854 | 857 | 858 | rBV | 93974 | 98133 | 3.59% | 0.314% |
| 26 | 11.531 | 868 | 870 | 875 | rBV5 | 22512 | 52155 | 1.91% | 0.167% |
| 27 | 11.805 | 892 | 894 | 895 | rBV | 37892 | 33606 | 1.23% | 0.108% |
| 28 | 11.839 | 895 | 897 | 899 | rVB | 37202 | 48073 | 1.76% | 0.154% |
| 29 | 11.919 | 902 | 904 | 908 | rVB | 74296 | 111536 | 4.08% | 0.357% |
| 30 | 12.011 | 908 | 912 | 917 | rBV5 | 23329 | 59222 | 2.17% | 0.190% |
| 31 | 12.102 | 917 | 920 | 921 | rBV | 37803 | 38443 | 1.41% | 0.123% |
| 32 | 12.354 | 939 | 942 | 944 | rBV | 64622 | 76142 | 2.79% | 0.244% |
| 33 | 12.388 | 944 | 945 | 948 | rVV3 | 31364 | 59092 | 2.16% | 0.189% |
| 34 | 12.434 | 948 | 949 | 954 | rVB2 | 39699 | 55719 | 2.04% | 0.178% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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 | 12.514 | 954 | 956 | 959 | rBV | 722256 | 630350 | 23.07% | 2.018% |
| 36 | 12.662 | 966 | 969 | 973 | rBV4 | 21899 | 54048 | 1.98% | 0.173% |
| 37 | 12.742 | 973 | 976 | 978 | rVV | 700471 | 772912 | 28.28% | 2.475% |
| 38 | 12.799 | 978 | 981 | 983 | rVB3 | 47405 | 75232 | 2.75% | 0.241% |
| 39 | 12.857 | 984 | 986 | 987 | rBV | 27746 | 34496 | 1.26% | 0.110% |
| 40 | 12.891 | 987 | 989 | 992 | rVB | 1870665 | 2023923 | 74.06% | 6.480% |
| 41 | 12.959 | 992 | 995 | 999 | rBV3 | 68036 | 115832 | 4.24% | 0.371% |
| 42 | 13.074 | 1001 | 1005 | 1006 | rVB2 | 85301 | 161531 | 5.91% | 0.517% |
| 43 | 13.142 | 1006 | 1011 | 1012 | rBV2 | 45844 | 85366 | 3.12% | 0.273% |
| 44 | 13.177 | 1012 | 1014 | 1015 | rBV | 93053 | 106132 | 3.88% | 0.340% |
| 45 | 13.268 | 1020 | 1022 | 1023 | rVB | 55787 | 48550 | 1.78% | 0.155% |
| 46 | 13.302 | 1023 | 1025 | 1027 | rBV2 | 32212 | 51773 | 1.89% | 0.166% |
| 47 | 13.428 | 1034 | 1036 | 1037 | rBV | 64663 | 67664 | 2.48% | 0.217% |
| 48 | 13.474 | 1037 | 1040 | 1043 | rVB5 | 37650 | 78631 | 2.88% | 0.252% |
| 49 | 13.577 | 1045 | 1049 | 1051 | rVV | 84658 | 112983 | 4.13% | 0.362% |
| 50 | 13.691 | 1056 | 1059 | 1060 | rVV2 | 61712 | 104018 | 3.81% | 0.333% |
| 51 | 13.714 | 1060 | 1061 | 1062 | rVV | 68171 | 60461 | 2.21% | 0.194% |
| 52 | 13.737 | 1062 | 1063 | 1066 | rVV2 | 58895 | 86256 | 3.16% | 0.276% |
| 53 | 13.794 | 1066 | 1068 | 1072 | rVB3 | 84204 | 156976 | 5.74% | 0.503% |
| 54 | 13.942 | 1077 | 1081 | 1087 | rBV2 | 744895 | 1505879 | 55.10% | 4.822% |
| 55 | 14.045 | 1087 | 1090 | 1091 | rBV2 | 42624 | 59530 | 2.18% | 0.191% |
| 56 | 14.114 | 1094 | 1096 | 1098 | rVB3 | 26127 | 37401 | 1.37% | 0.120% |
| 57 | 14.320 | 1112 | 1114 | 1116 | rVB | 57105 | 73819 | 2.70% | 0.236% |
| 58 | 14.354 | 1116 | 1117 | 1119 | rVB2 | 44133 | 53996 | 1.98% | 0.173% |
| 59 | 14.422 | 1119 | 1123 | 1124 | rBV3 | 50115 | 101891 | 3.73% | 0.326% |
| 60 | 14.525 | 1129 | 1132 | 1134 | rVB3 | 22473 | 35612 | 1.30% | 0.114% |
| 61 | 14.628 | 1139 | 1141 | 1142 | rBV | 27494 | 36746 | 1.34% | 0.118% |
| 62 | 14.720 | 1146 | 1149 | 1152 | rBV3 | 32398 | 70268 | 2.57% | 0.225% |
| 63 | 14.788 | 1152 | 1155 | 1159 | rBV2 | 38275 | 91644 | 3.35% | 0.293% |
| 64 | 14.948 | 1166 | 1169 | 1174 | rBV | 292803 | 560544 | 20.51% | 1.795% |
| 65 | 15.051 | 1174 | 1178 | 1180 | rVV3 | 59141 | 102825 | 3.76% | 0.329% |
| 66 | 15.234 | 1191 | 1194 | 1197 | rVB | 137308 | 191132 | 6.99% | 0.612% |
| 67 | 15.291 | 1197 | 1199 | 1202 | rVV | 176223 | 219006 | 8.01% | 0.701% |
| 68 | 15.348 | 1202 | 1204 | 1211 | rVB | 456285 | 624285 | 22.84% | 1.999% |
| 69 | 15.794 | 1241 | 1243 | 1245 | rVB2 | 21129 | 32735 | 1.20% | 0.105% |
| 70 | 16.388 | 1293 | 1295 | 1302 | rVB6 | 19789 | 49134 | 1.80% | 0.157% |
| 71 | 16.525 | 1304 | 1307 | 1309 | rBV2 | 13041 | 35586 | 1.30% | 0.114% |

LSC Area Percent Report

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Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 16.697 | 1319 | 1322 | 1328 | rVB2 | 66298 | 126724 | 4.64% | 0.406% |
| 73 | 17.108 | 1354 | 1358 | 1363 | rVB | 46113 | 102062 | 3.73% | 0.327% |

Sum of corrected areas: 31231330

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
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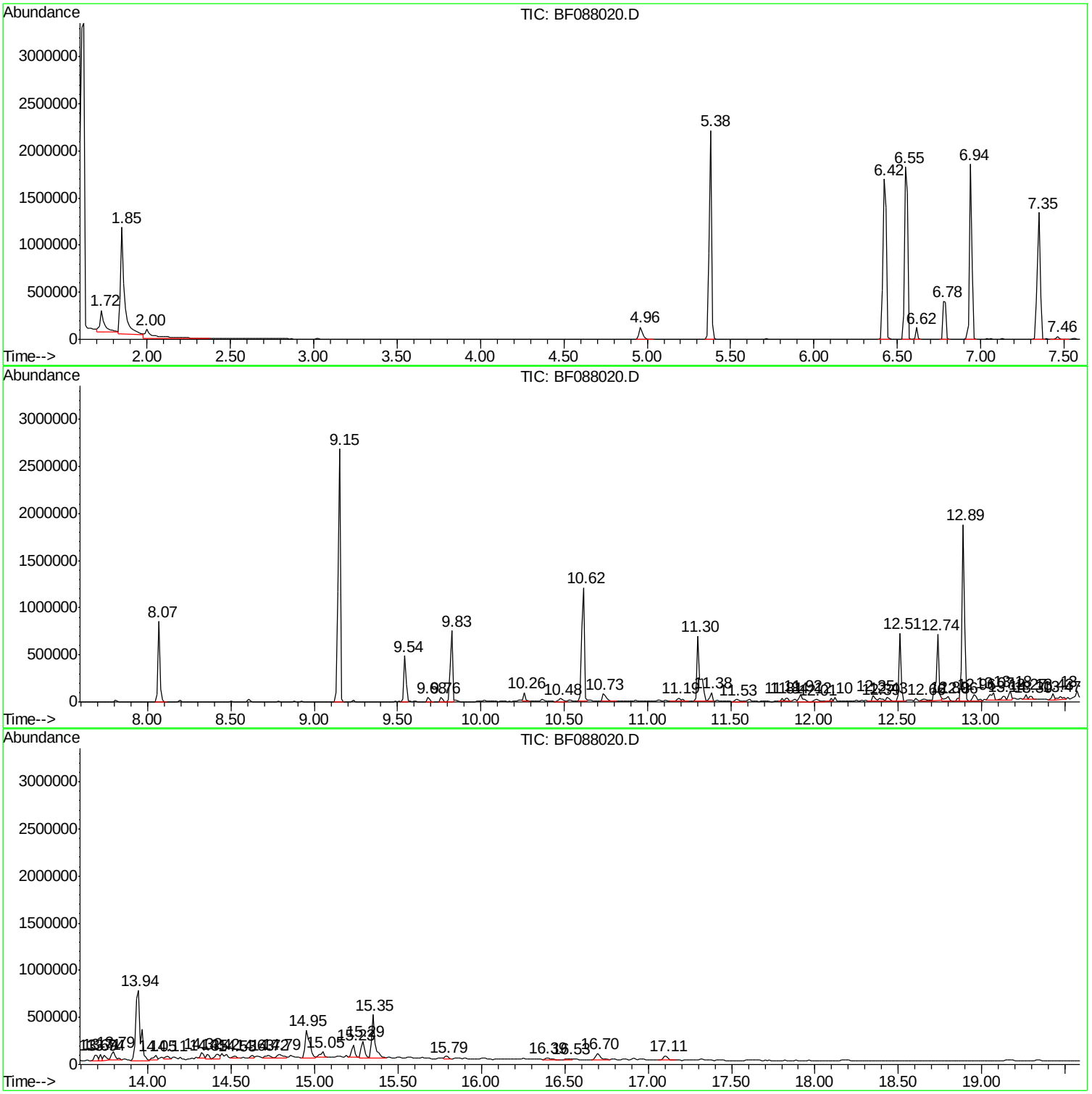
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
STA-1037-(0-4)

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

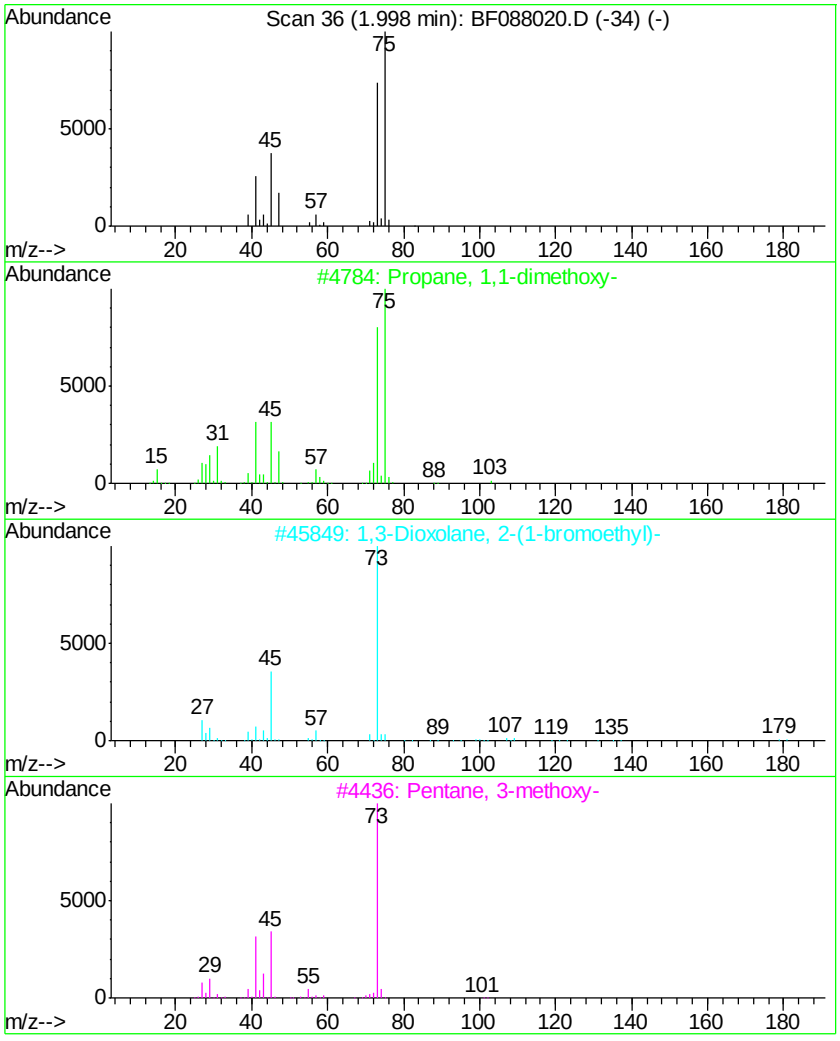
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

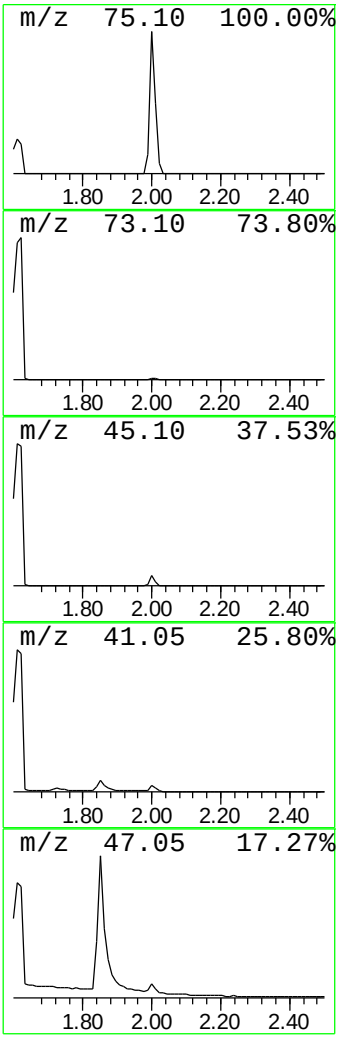
**********

Peak Number 3 Propane, 1,1-dimethoxy- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.00 | 13.90 ng | 389084 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 1,1-dimethoxy- | 104 | C5H12O2 | 004744-10-9 | 83 |
| 2 | 1,3-Dioxolane, 2-(1-bromoethyl)- | 180 | C5H9BrO2 | 005267-73-2 | 12 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 12 |
| 4 | Borane, dimethoxy- | 74 | C2H7BO2 | 004542-61-4 | 9 |
| 5 | Glycine | 75 | C2H5NO2 | 000056-40-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

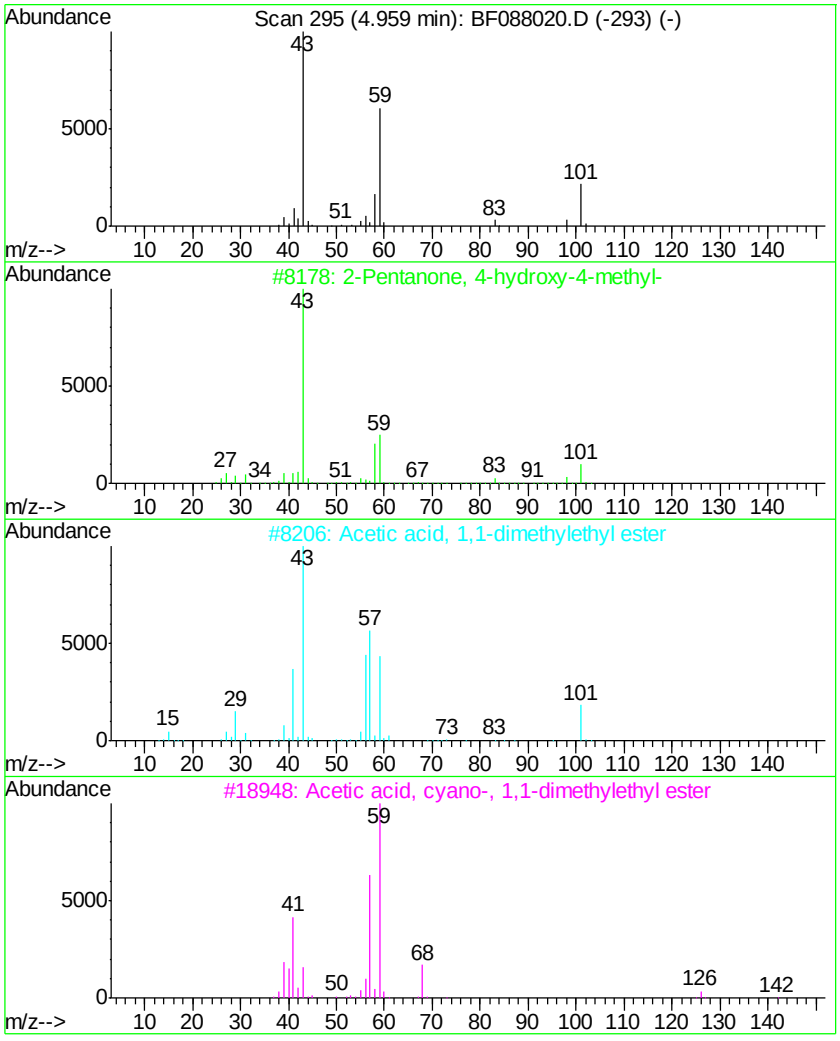
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

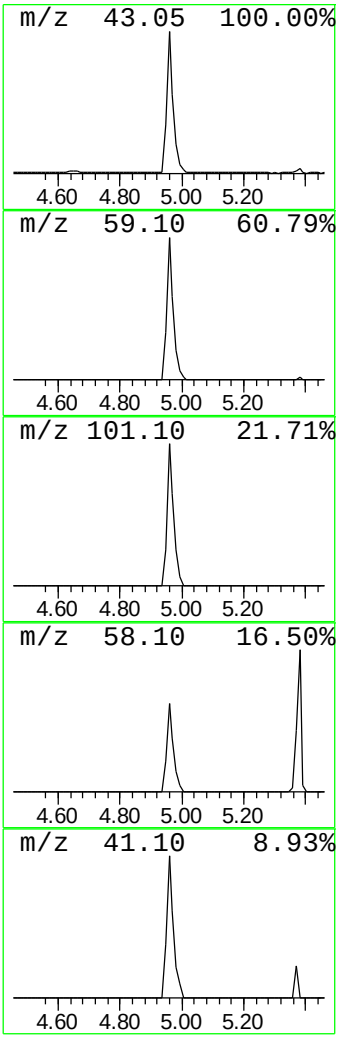
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.96 | 6.81 ng | 190579 | 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 | 59 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 4 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |
| 5 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |



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

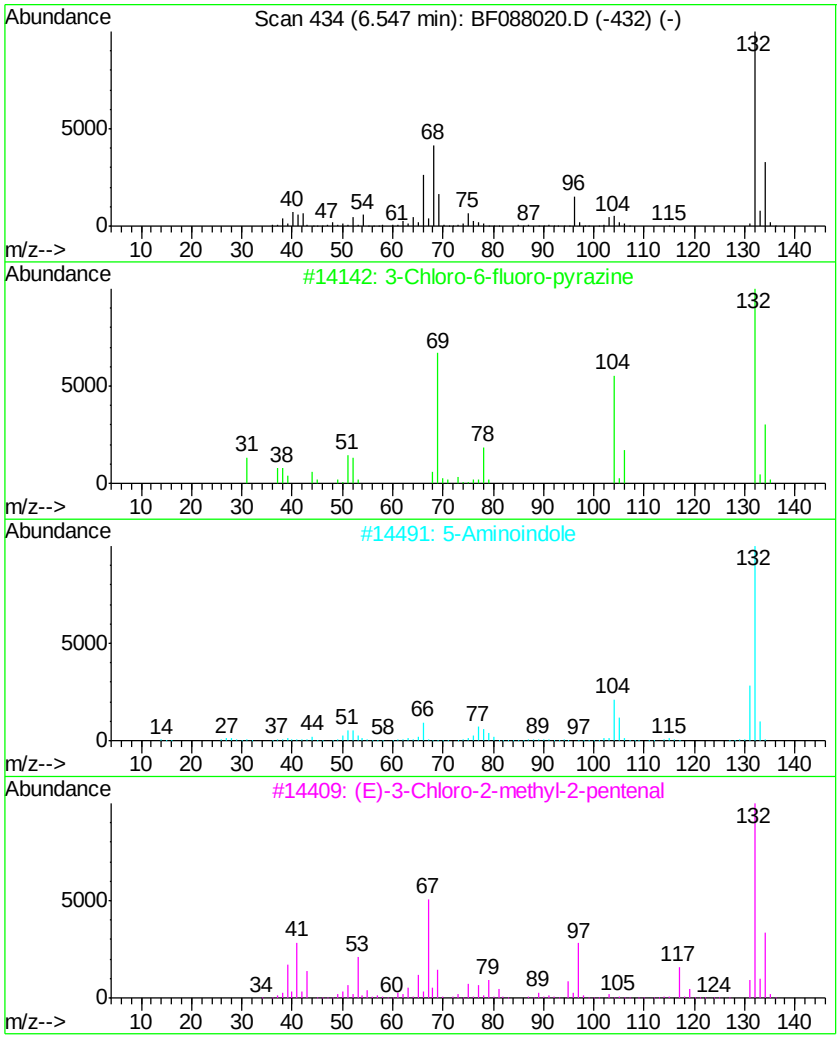
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

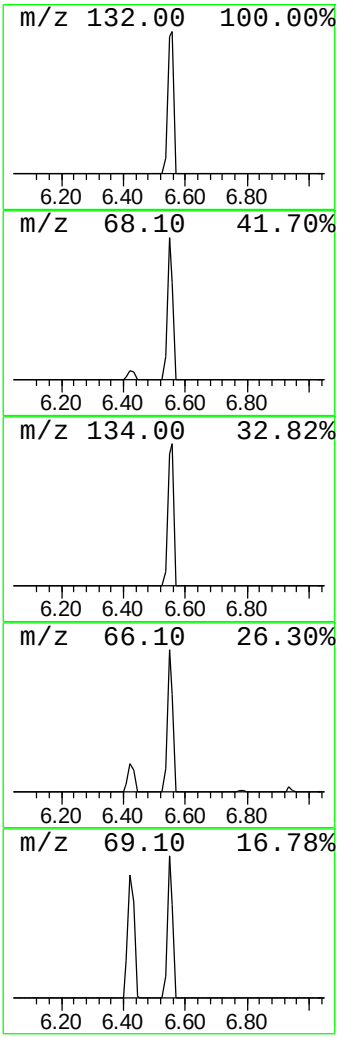
**********

Peak Number 5 unknown6.55 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.55 | 89.37 ng | 2501660 | 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 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 9 |
| 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 |



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

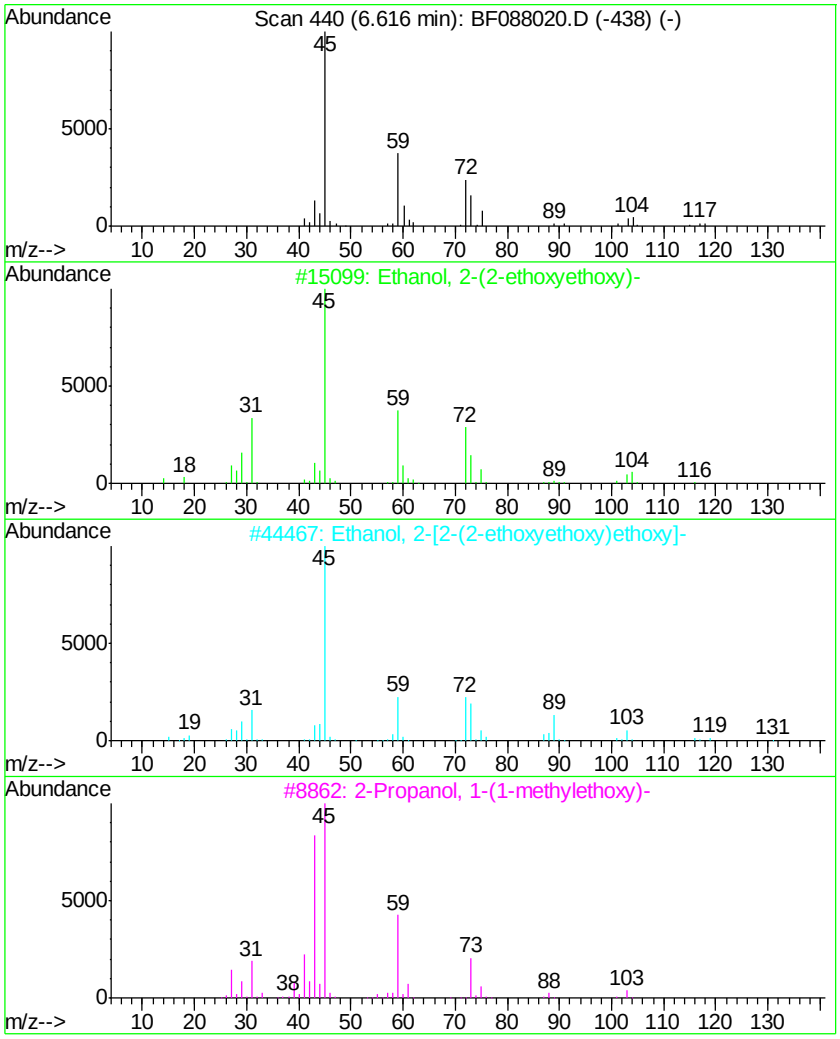
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

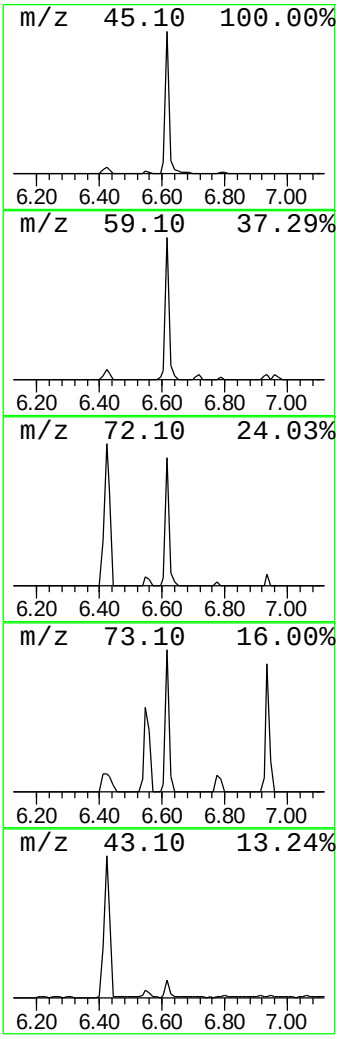
**********

Peak Number 6 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.62 | 3.64 ng | 101955 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-(2-ethoxyethoxy)- | 134 | C6H14O3 | 000111-90-0 | 90 |
| 2 | Ethanol, 2-[2-(2-ethoxyethoxy)et... | 178 | C8H18O4 | 000112-50-5 | 64 |
| 3 | 2-Propanol, 1-(1-methylethoxy)- | 118 | C6H14O2 | 003944-36-3 | 45 |
| 4 | Ethanol, 2-(2-methoxyethoxy)- | 120 | C5H12O3 | 000111-77-3 | 42 |
| 5 | Diethyl carbitol | 162 | C8H18O3 | 000112-36-7 | 34 |



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Data File : BF088020.D
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Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

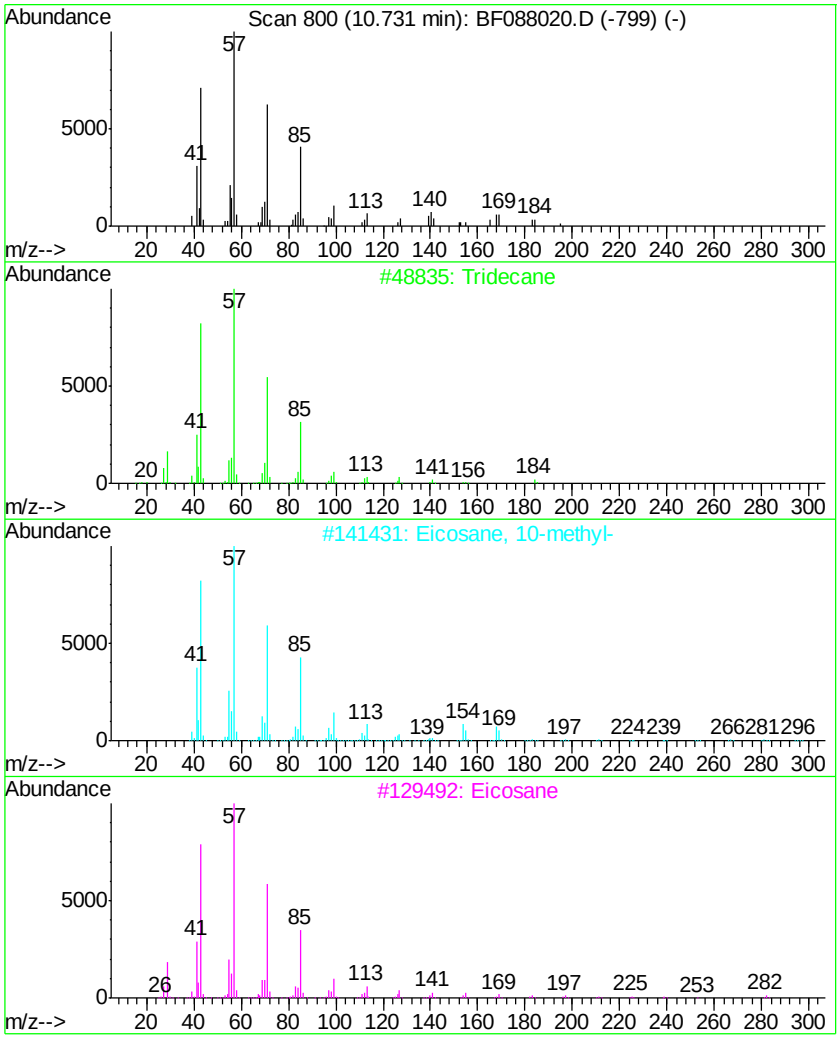
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

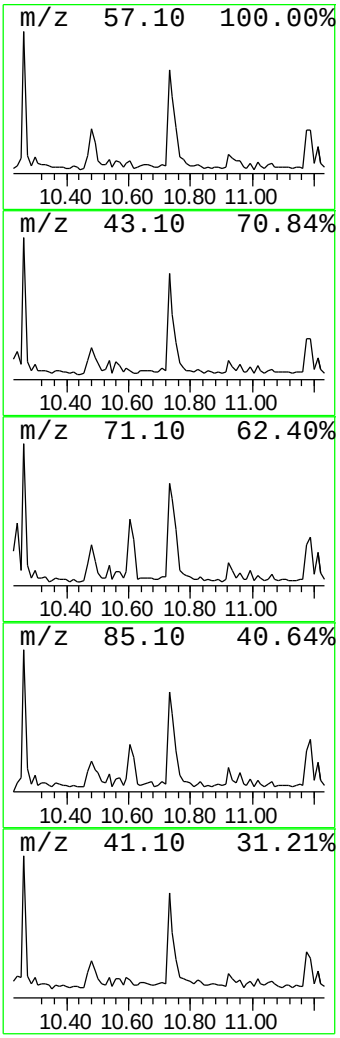
**********

Peak Number 8 Tridecane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.73 | 2.73 ng | 121388 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 95 |
| 2 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 83 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 80 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 80 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |



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Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

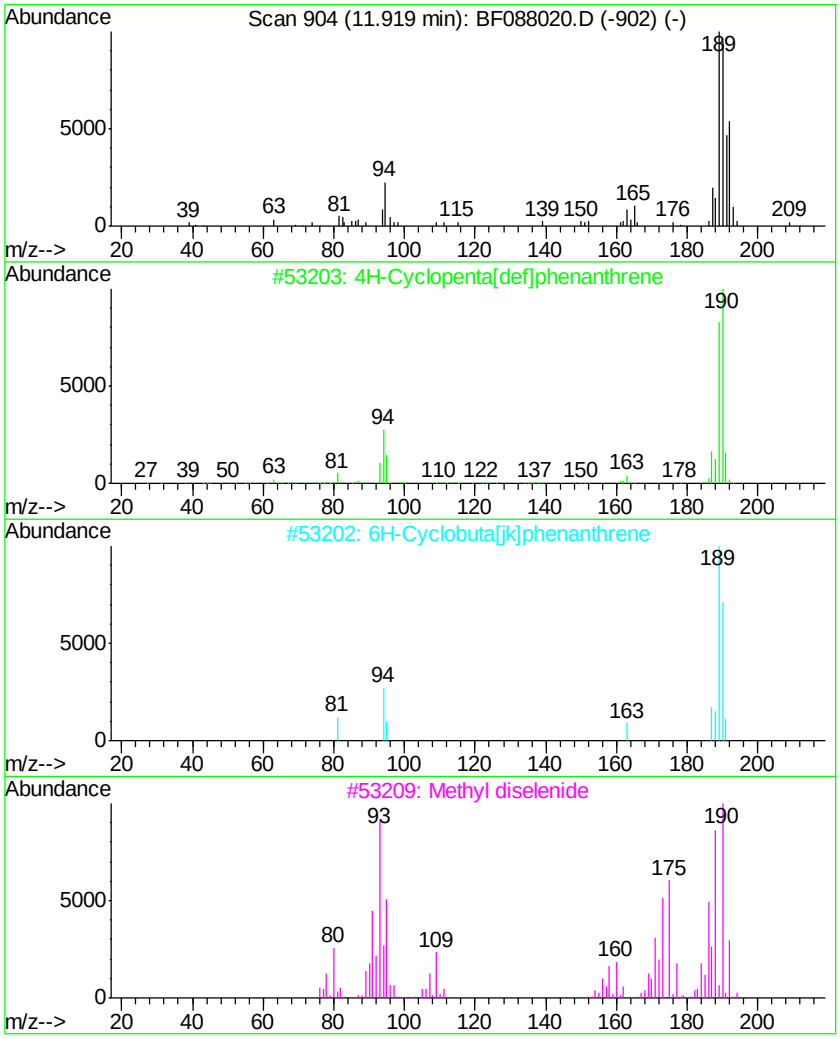
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

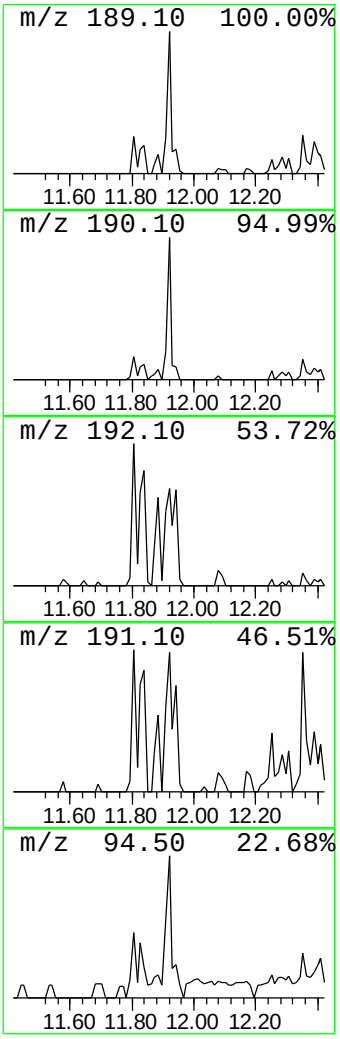
**********

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 2.50 ng | 111536 | Phenanthrene-d10 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 58 |
| 3 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 41 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 35 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

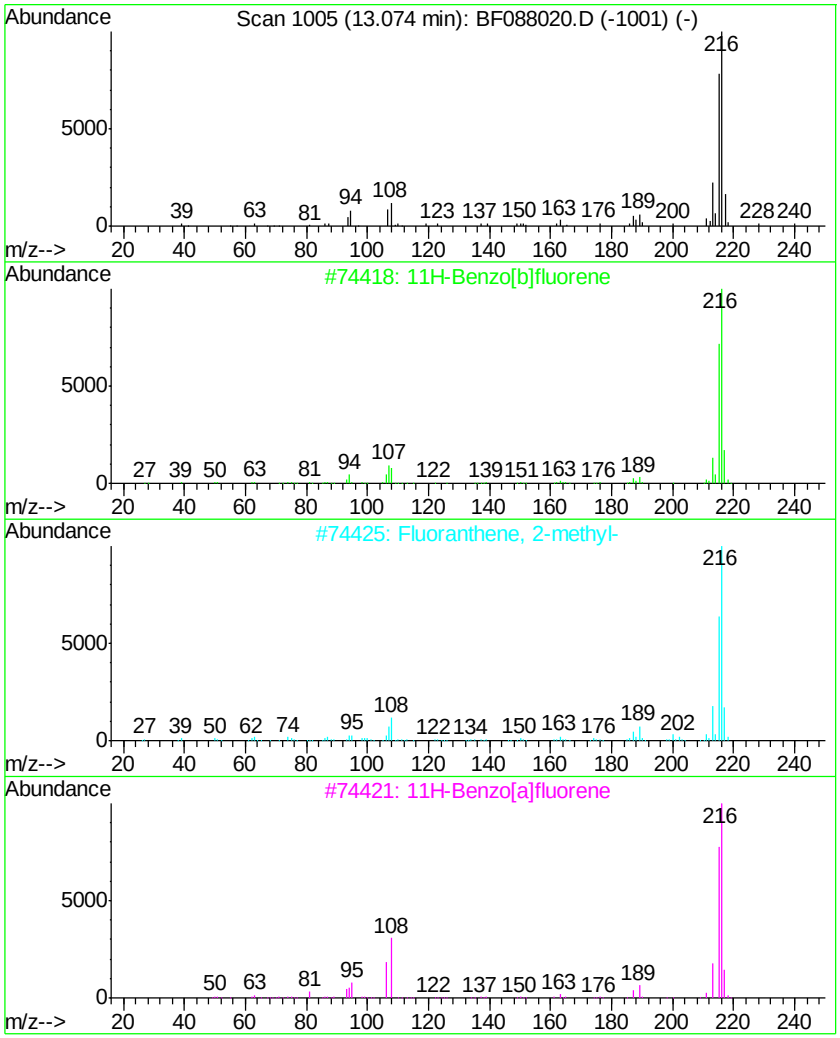
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

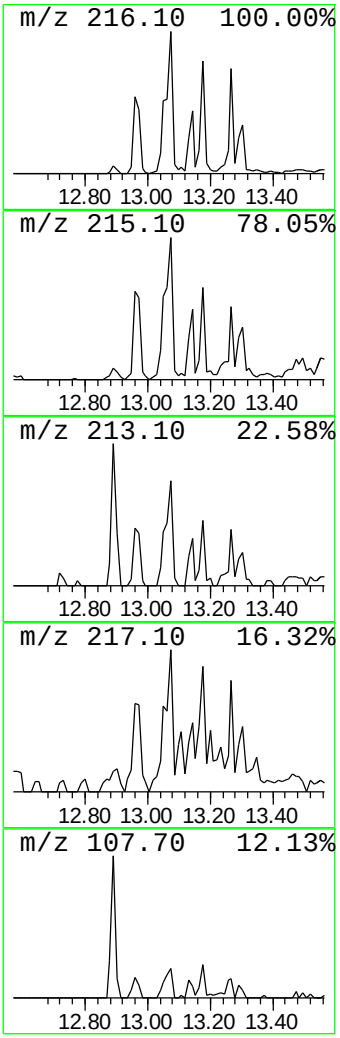
**********

Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.07 | 2.15 ng | 161531 | Chrysene-d12 | 13.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 93 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 87 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

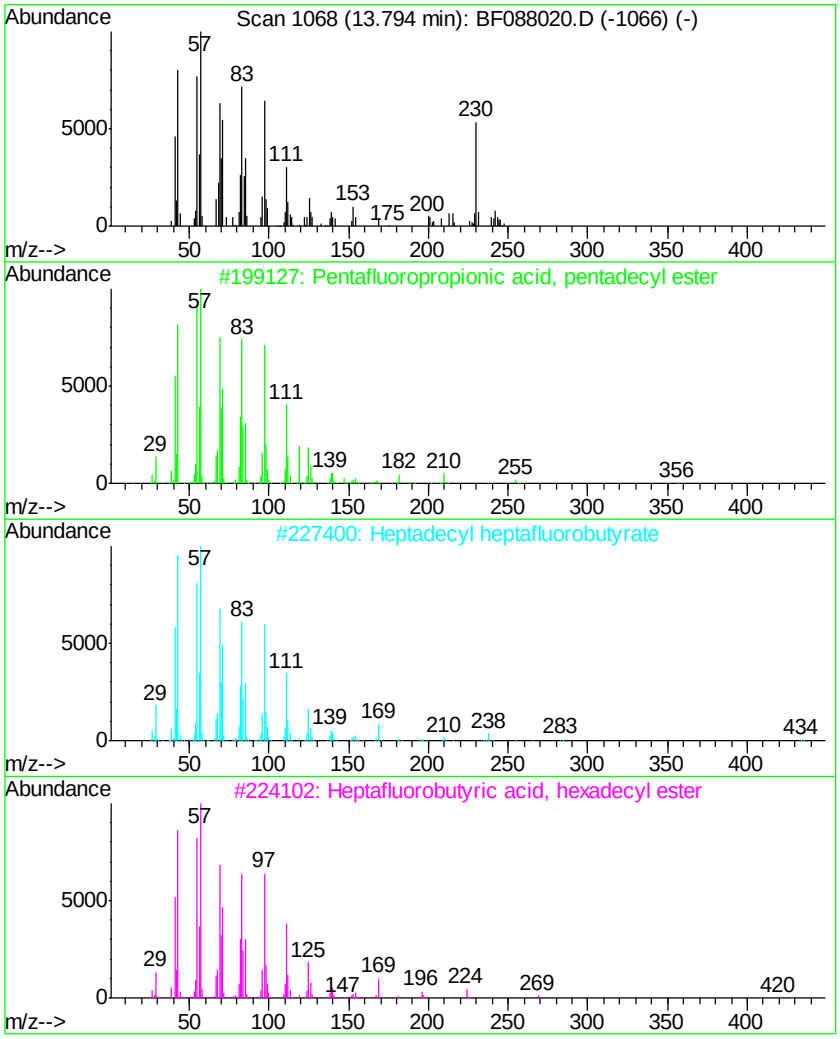
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

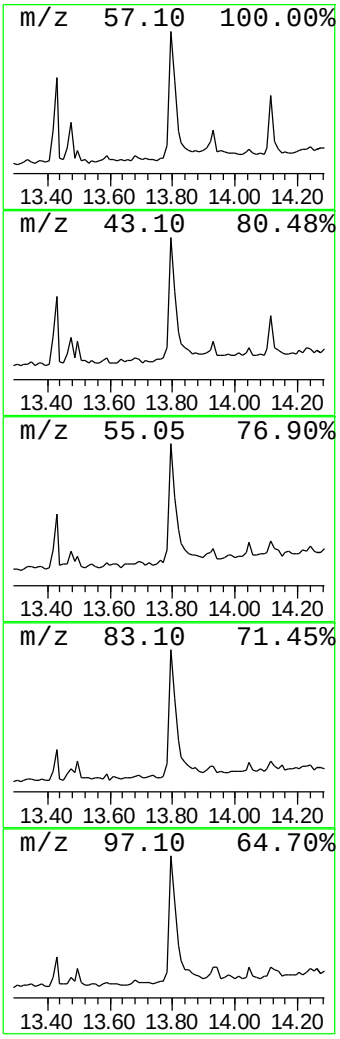
**********

Peak Number 11 Pentafluoropropionic acid, ... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.79 | 2.08 ng | 156976 | Chrysene-d12 | 13.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 92 |
| 2 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 89 |
| 3 | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5 | 89 |
| 4 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 86 |
| 5 | Octacosyl heptafluorobutyrate | 606 | C32H57F7O2 | 1000351-83-6 | 76 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

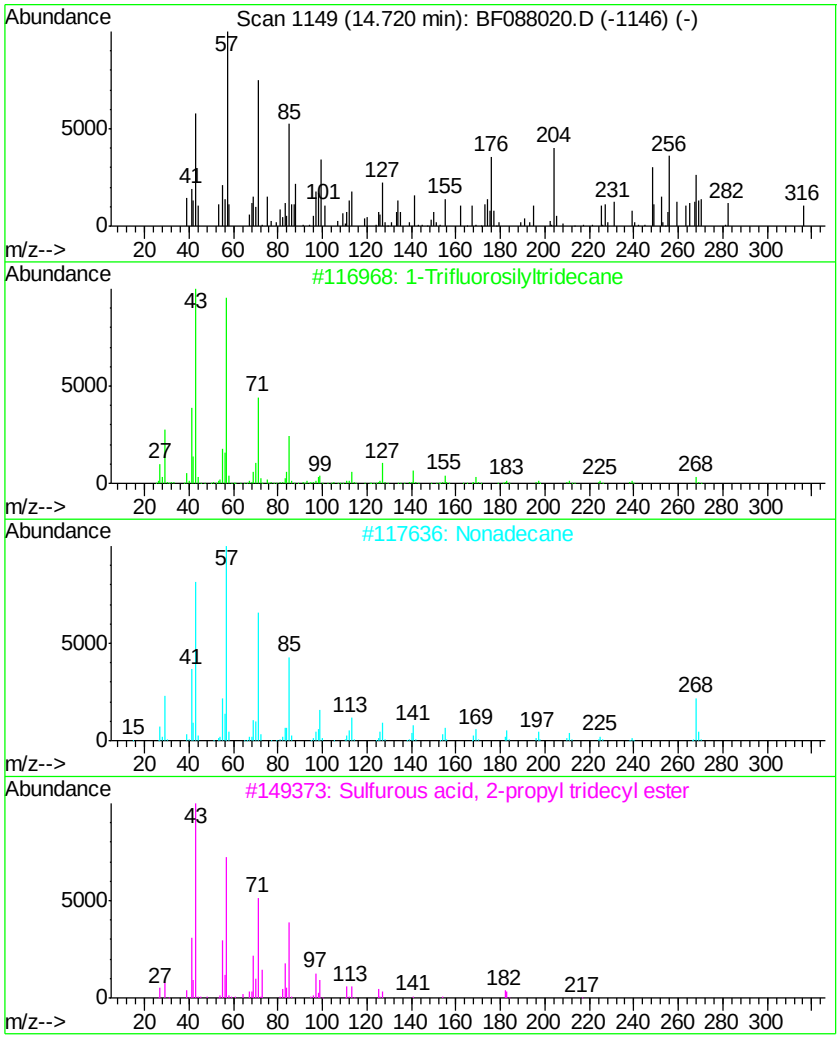
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

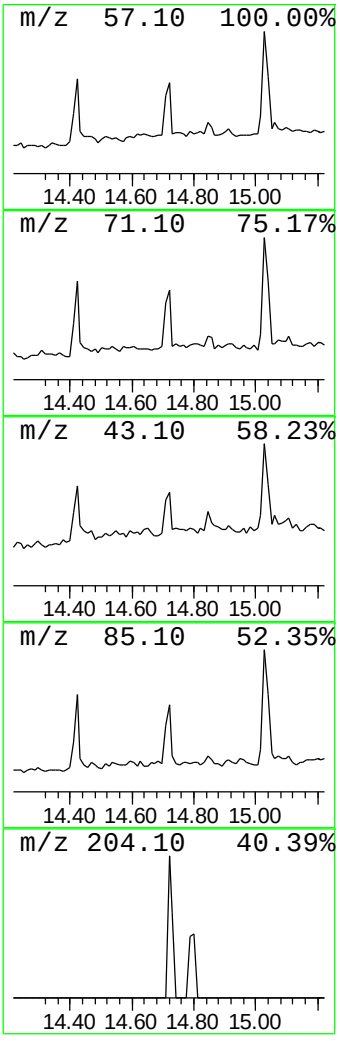
**********

Peak Number 12 1-Trifluorosilyltridecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.72 | 2.25 ng | 70268 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Trifluorosilyltridecane | 268 | C13H27F3Si | 1000217-08-2 | 50 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 45 |
| 3 | Sulfurous acid, 2-propyl tridecy... | 306 | C16H34O3S | 1000309-12-4 | 35 |
| 4 | Decane, 2,3,8-trimethyl- | 184 | C13H28 | 062238-14-6 | 35 |
| 5 | Pentadecane, 2-methyl- | 226 | C16H34 | 001560-93-6 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

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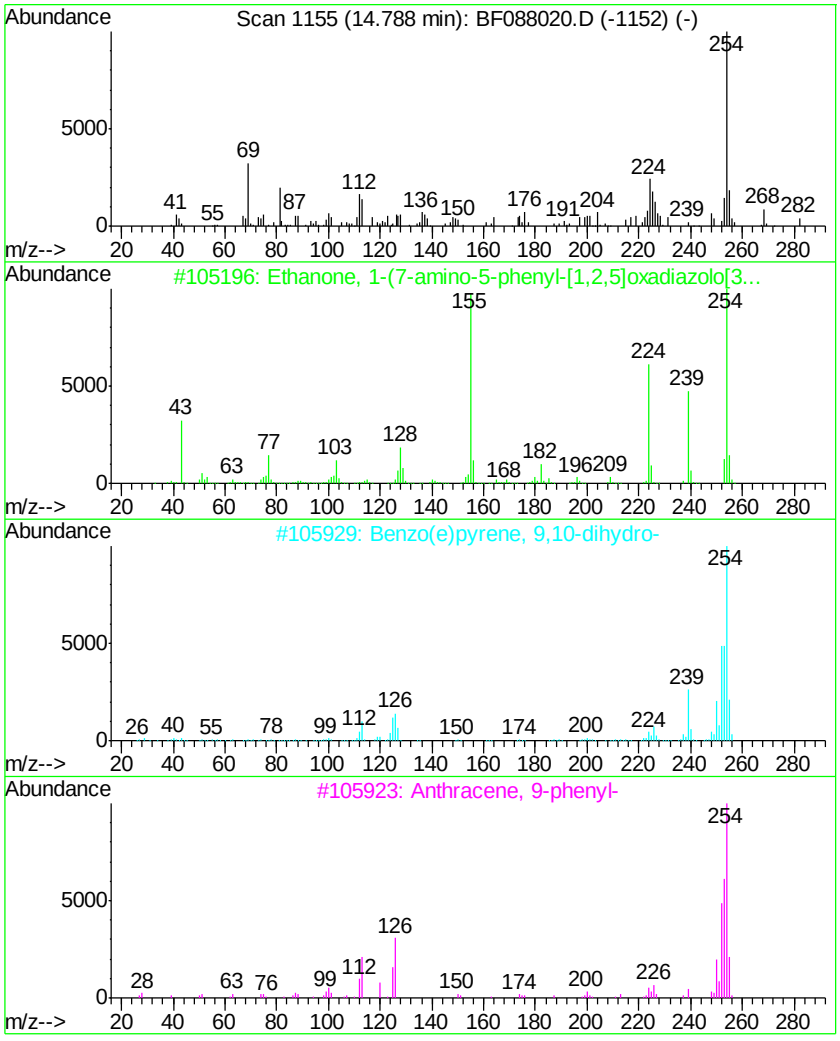
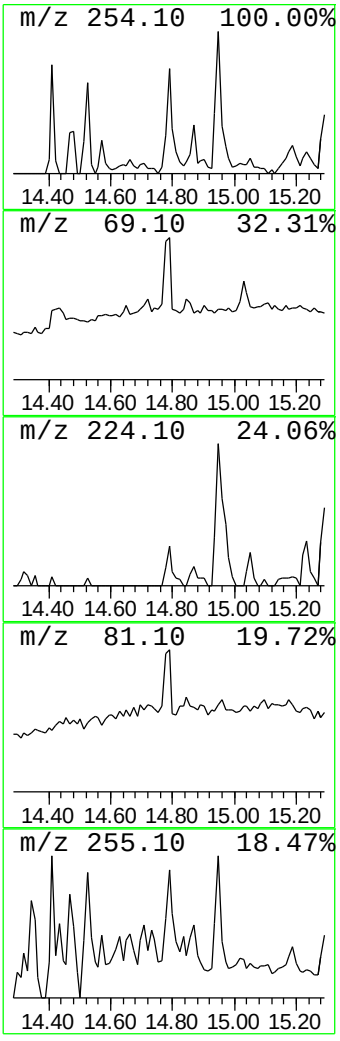
Peak Number 13 Ethanone, 1-(7-amino-5-phen... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.79 | 2.94 ng | 91644 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanone, 1-(7-amino-5-phenyl-[1... | 254 | C13H10N4O2 | 1000316-41-1 | 59 |
| 2 | Benzo(e)pyrene, 9,10-dihydro- | 254 | C20H14 | 066788-01-0 | 58 |
| 3 | Anthracene, 9-phenyl- | 254 | C20H14 | 000602-55-1 | 53 |
| 4 | 3-Hydroxy-1-methoxyanthraquinone | 254 | C15H10O4 | 028504-24-7 | 53 |
| 5 | 3-(2-Furan-2-yl-2-oxo-ethylidene... | 254 | C14H10N2O3 | 1000297-32-1 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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

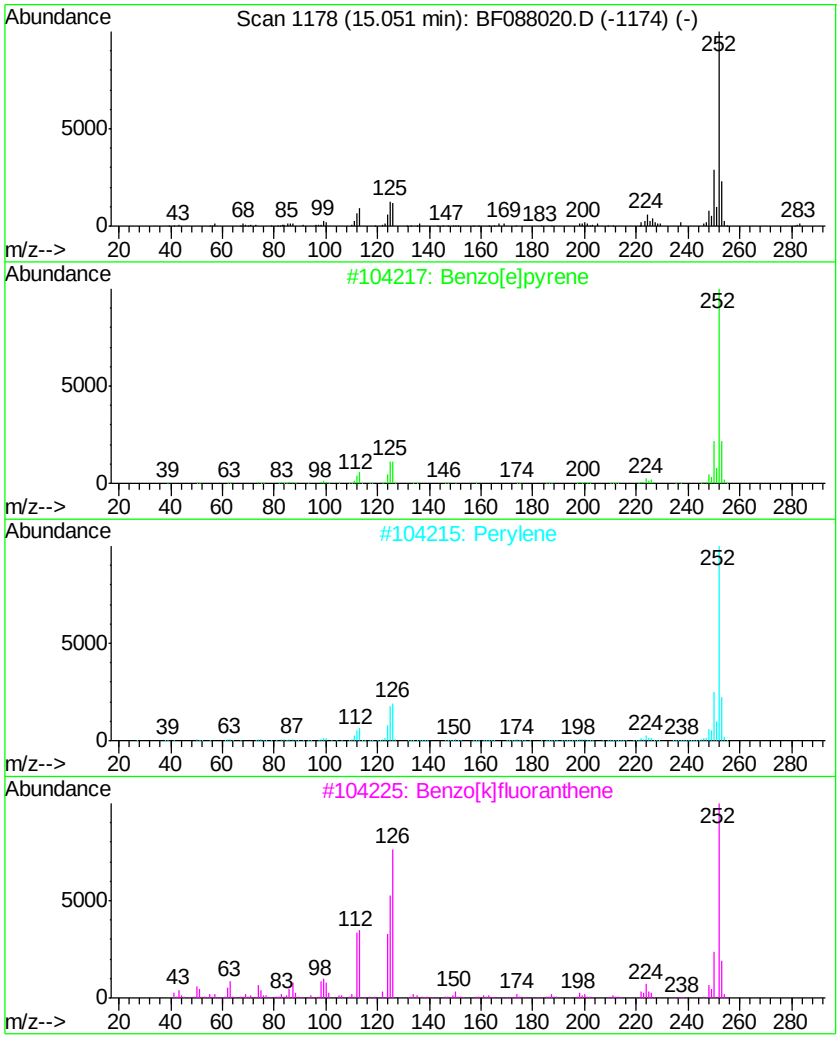
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

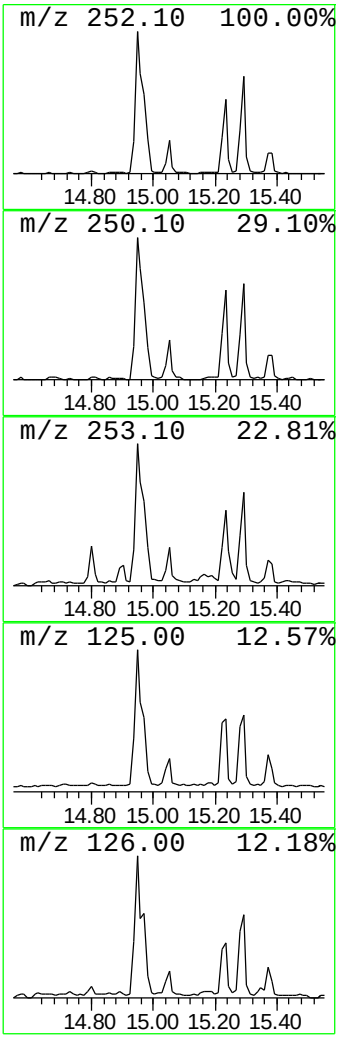
**********

Peak Number 14 Benzo[e]pyrene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.05 | 3.29 ng | 102825 | Perylene-d12 | 15.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 96 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 95 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061416\
Data File : BF088020.D
Acq On : 15 Jun 2016 1:50
Operator : UM/SJ
Sample : H3471-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** STA-1037-(0-4)

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 |
| Propane, 1,1-dime... | 2.00 | 13.9 | ng | 389084 | 1 | 6.79 | 559864 | 20.0 |
| 2-Pentanone, 4-hy... | 4.96 | 6.8 | ng | 190579 | 1 | 6.79 | 559864 | 20.0 |
| unknown6.55 | 6.55 | 89.4 | ng | 2501660 | 1 | 6.79 | 559864 | 20.0 |
| Ethanol, 2-(2-eth... | 6.62 | 3.6 | ng | 101955 | 1 | 6.79 | 559864 | 20.0 |
| Tridecane | 10.73 | 2.7 | ng | 121388 | 4 | 11.30 | 890771 | 20.0 |
| 4H-Cyclopenta[def... | 11.92 | 2.5 | ng | 111536 | 4 | 11.30 | 890771 | 20.0 |
| 11H-Benzo[b]fluorene | 13.07 | 2.1 | ng | 161531 | 5 | 13.94 | 1505880 | 20.0 |
| Pentafluoropropio... | 13.79 | 2.1 | ng | 156976 | 5 | 13.94 | 1505880 | 20.0 |
| 1-Trifluorosilylt... | 14.72 | 2.3 | ng | 70268 | 6 | 15.35 | 624285 | 20.0 |
| Ethanone, 1-(7-am... | 14.79 | 2.9 | ng | 91644 | 6 | 15.35 | 624285 | 20.0 |
| Benzo[e]pyrene | 15.05 | 3.3 | ng | 102825 | 6 | 15.35 | 624285 | 20.0 |