LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM111617.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.569 | 69 | 82 | 94 | rBV | 122082 | 364618 | 4.37% | 0.354% |
| 2 | 3.969 | 124 | 150 | 153 | rBV4 | 440216 | 1950088 | 23.39% | 1.896% |
| 3 | 4.704 | 259 | 275 | 280 | rBV | 248527 | 691556 | 8.30% | 0.672% |
| 4 | 4.846 | 287 | 299 | 309 | rVB3 | 197719 | 489145 | 5.87% | 0.476% |
| 5 | 5.451 | 358 | 402 | 405 | rBV | 757864 | 5429949 | 65.14% | 5.279% |
| 6 | 6.845 | 617 | 639 | 642 | rBV | 424799 | 1591229 | 19.09% | 1.547% |
| 7 | 6.928 | 642 | 653 | 663 | rVV2 | 1941343 | 4285894 | 51.41% | 4.167% |
| 8 | 7.051 | 667 | 674 | 682 | rVB | 647425 | 958460 | 11.50% | 0.932% |
| 9 | 7.251 | 699 | 708 | 715 | rBV | 941973 | 1434425 | 17.21% | 1.395% |
| 10 | 7.710 | 779 | 786 | 793 | rVB | 866523 | 1343062 | 16.11% | 1.306% |
| 11 | 8.428 | 902 | 908 | 913 | rBV | 1194922 | 1906501 | 22.87% | 1.854% |
| 12 | 8.498 | 913 | 920 | 930 | rVB | 4811905 | 8336073 | 100.00% | 8.105% |
| 13 | 8.863 | 974 | 982 | 989 | rBV | 889107 | 1424469 | 17.09% | 1.385% |
| 14 | 9.034 | 1000 | 1011 | 1015 | rBV8 | 28850 | 84547 | 1.01% | 0.082% |
| 15 | 9.175 | 1021 | 1035 | 1043 | rBV3 | 275253 | 726231 | 8.71% | 0.706% |
| 16 | 9.581 | 1096 | 1104 | 1116 | rBV | 769730 | 1260980 | 15.13% | 1.226% |
| 17 | 9.839 | 1142 | 1148 | 1154 | rVB3 | 66226 | 100256 | 1.20% | 0.097% |
| 18 | 10.122 | 1188 | 1196 | 1207 | rBV | 1222861 | 2050214 | 24.59% | 1.993% |
| 19 | 10.333 | 1225 | 1232 | 1242 | rBV5 | 58694 | 140601 | 1.69% | 0.137% |
| 20 | 10.492 | 1251 | 1259 | 1266 | rBV | 1202235 | 1986581 | 23.83% | 1.931% |
| 21 | 10.633 | 1274 | 1283 | 1294 | rBV | 932397 | 1623977 | 19.48% | 1.579% |
| 22 | 11.080 | 1347 | 1359 | 1372 | rBV | 490507 | 1149249 | 13.79% | 1.117% |
| 23 | 11.327 | 1392 | 1401 | 1408 | rVB | 96137 | 189538 | 2.27% | 0.184% |
| 24 | 11.586 | 1436 | 1445 | 1458 | rBV | 1807652 | 3093311 | 37.11% | 3.007% |
| 25 | 12.339 | 1564 | 1573 | 1592 | rBV | 618002 | 1285105 | 15.42% | 1.249% |
| 26 | 12.545 | 1600 | 1608 | 1617 | rBV | 398239 | 677189 | 8.12% | 0.658% |
| 27 | 12.639 | 1620 | 1624 | 1631 | rVB3 | 61557 | 86042 | 1.03% | 0.084% |
| 28 | 12.816 | 1648 | 1654 | 1660 | rBV4 | 70711 | 140463 | 1.69% | 0.137% |
| 29 | 13.763 | 1809 | 1815 | 1820 | rBV | 2175699 | 3104250 | 37.24% | 3.018% |
| 30 | 13.810 | 1820 | 1823 | 1832 | rVB | 411369 | 566933 | 6.80% | 0.551% |
| 31 | 14.039 | 1853 | 1862 | 1870 | rVB | 2415919 | 3574146 | 42.88% | 3.475% |
| 32 | 14.257 | 1895 | 1899 | 1903 | rVB | 110514 | 140262 | 1.68% | 0.136% |
| 33 | 14.351 | 1903 | 1915 | 1925 | rBV2 | 1742320 | 2721218 | 32.64% | 2.646% |
| 34 | 14.580 | 1948 | 1954 | 1960 | rBV | 1037448 | 1591835 | 19.10% | 1.548% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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_M\METHODS\SOM-EPA-BM111617.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 14.786 | 1981 | 1989 | 2002 | rBV3 | 154857 | 313841 | 3.76% | 0.305% |
| 36 | 15.215 | 2058 | 2062 | 2067 | rVB2 | 132703 | 175024 | 2.10% | 0.170% |
| 37 | 15.345 | 2075 | 2084 | 2091 | rBV | 3113310 | 4284018 | 51.39% | 4.165% |
| 38 | 15.463 | 2096 | 2104 | 2115 | rBV2 | 394379 | 741198 | 8.89% | 0.721% |
| 39 | 15.851 | 2163 | 2170 | 2176 | rVB5 | 127790 | 268333 | 3.22% | 0.261% |
| 40 | 16.074 | 2204 | 2208 | 2211 | rBV | 126663 | 171924 | 2.06% | 0.167% |
| 41 | 16.104 | 2211 | 2213 | 2220 | rVB3 | 88627 | 107400 | 1.29% | 0.104% |
| 42 | 16.357 | 2247 | 2256 | 2260 | rBV | 152658 | 277287 | 3.33% | 0.270% |
| 43 | 16.445 | 2265 | 2271 | 2277 | rVV | 3976856 | 5270911 | 63.23% | 5.125% |
| 44 | 16.515 | 2278 | 2283 | 2292 | rVB2 | 269790 | 399566 | 4.79% | 0.388% |
| 45 | 16.868 | 2339 | 2343 | 2347 | rBV2 | 91774 | 114225 | 1.37% | 0.111% |
| 46 | 17.098 | 2372 | 2382 | 2387 | rBV2 | 2123556 | 3225832 | 38.70% | 3.136% |
| 47 | 17.151 | 2387 | 2391 | 2393 | rVV3 | 121998 | 162340 | 1.95% | 0.158% |
| 48 | 17.192 | 2393 | 2398 | 2405 | rVB | 3339299 | 4835441 | 58.01% | 4.701% |
| 49 | 17.604 | 2462 | 2468 | 2475 | rBV5 | 51041 | 89062 | 1.07% | 0.087% |
| 50 | 17.892 | 2508 | 2517 | 2523 | rBV | 115019 | 234236 | 2.81% | 0.228% |
| 51 | 18.015 | 2531 | 2538 | 2546 | rBV | 3017793 | 4338323 | 52.04% | 4.218% |
| 52 | 18.139 | 2556 | 2559 | 2564 | rVB | 121455 | 168834 | 2.03% | 0.164% |
| 53 | 18.503 | 2616 | 2621 | 2625 | rBV | 237782 | 321368 | 3.86% | 0.312% |
| 54 | 19.292 | 2750 | 2755 | 2762 | rBV | 2006000 | 2519850 | 30.23% | 2.450% |
| 55 | 19.492 | 2783 | 2789 | 2796 | rBV | 3785742 | 5227393 | 62.71% | 5.082% |
| 56 | 20.186 | 2904 | 2907 | 2912 | rVB2 | 97587 | 127353 | 1.53% | 0.124% |
| 57 | 20.374 | 2932 | 2939 | 2944 | rBV5 | 172608 | 364613 | 4.37% | 0.354% |
| 58 | 20.445 | 2949 | 2951 | 2955 | rVV4 | 91879 | 95327 | 1.14% | 0.093% |
| 59 | 20.497 | 2956 | 2960 | 2964 | rVB | 159250 | 198728 | 2.38% | 0.193% |
| 60 | 20.615 | 2975 | 2980 | 2989 | rBV | 1456034 | 1925192 | 23.09% | 1.872% |
| 61 | 20.815 | 3011 | 3014 | 3016 | rBV4 | 107952 | 112218 | 1.35% | 0.109% |
| 62 | 20.850 | 3016 | 3020 | 3025 | rVB5 | 134224 | 200236 | 2.40% | 0.195% |
| 63 | 20.933 | 3031 | 3034 | 3039 | rBV7 | 89877 | 134942 | 1.62% | 0.131% |
| 64 | 21.003 | 3042 | 3046 | 3050 | rBV | 507624 | 627681 | 7.53% | 0.610% |
| 65 | 21.280 | 3088 | 3093 | 3098 | rVB | 2407754 | 3014637 | 36.16% | 2.931% |
| 66 | 23.368 | 3441 | 3448 | 3454 | rBV2 | 2170254 | 3884075 | 46.59% | 3.776% |
| 67 | 23.509 | 3465 | 3472 | 3479 | rVB | 1269301 | 2426511 | 29.11% | 2.359% |

Sum of corrected areas: 102856316

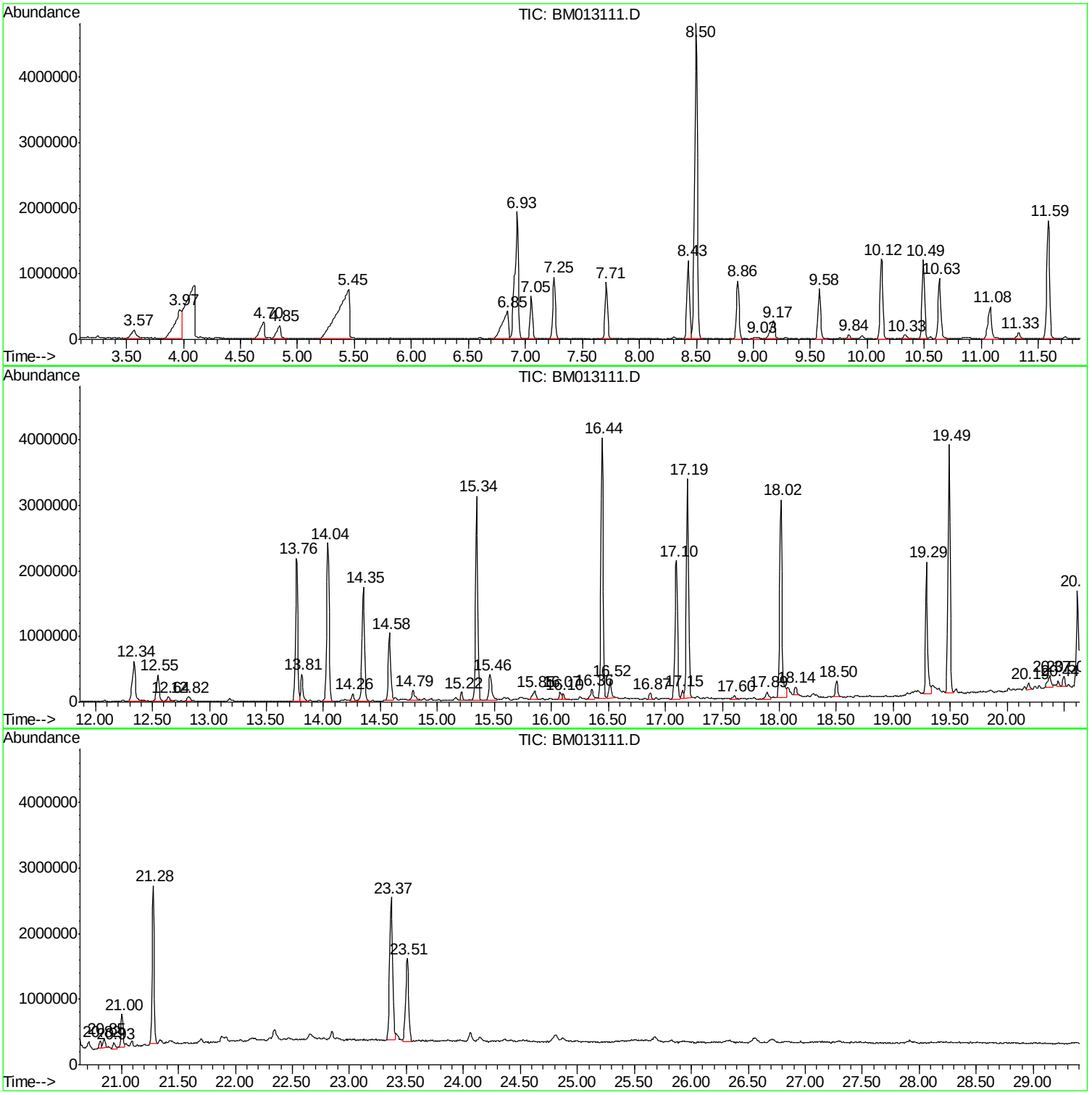
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

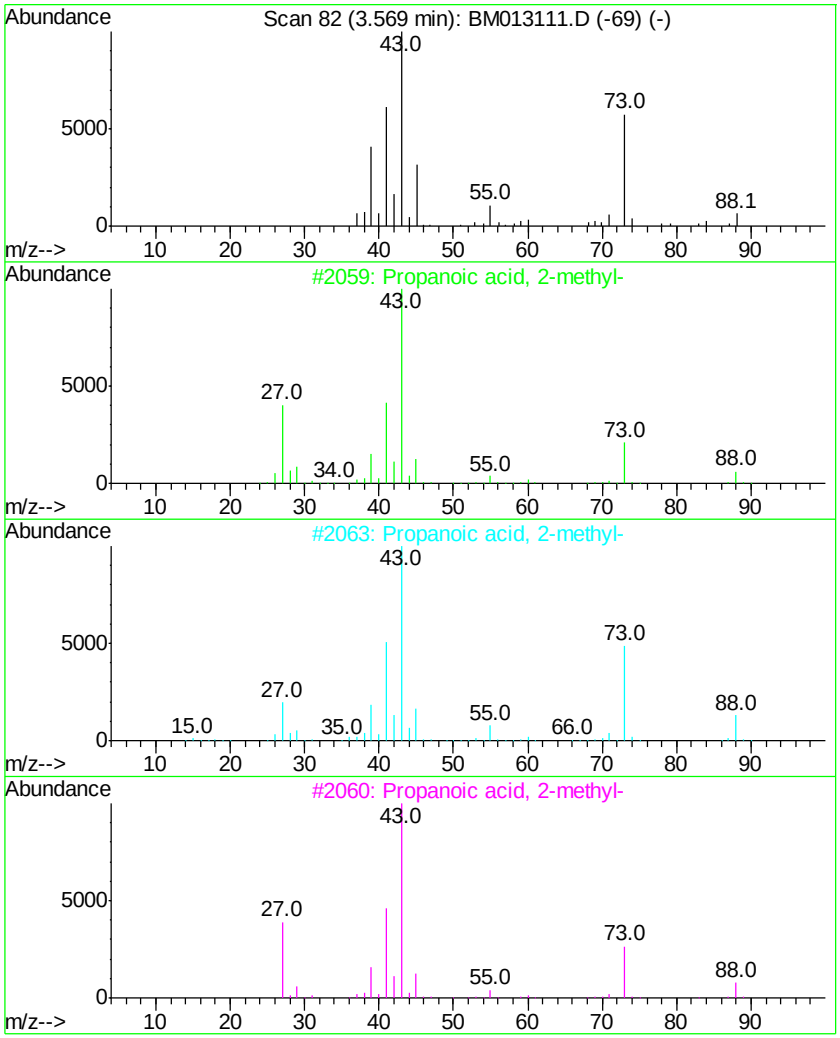
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

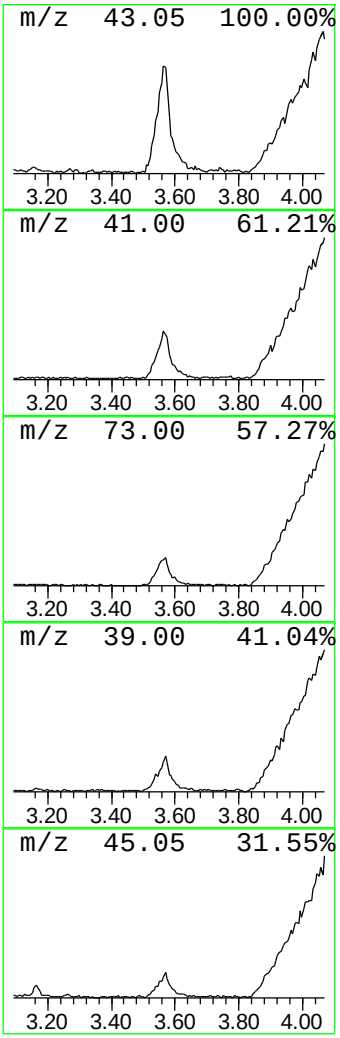
**********

Peak Number 1 unknown-01 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.57 | 5.43 ng/ul | 364618 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanoic acid, 2-methyl- | 88 | C4H8O2 | 000079-31-2 | 46 |
| 2 | Propanoic acid, 2-methyl- | 88 | C4H8O2 | 000079-31-2 | 43 |
| 3 | Propanoic acid, 2-methyl- | 88 | C4H8O2 | 000079-31-2 | 27 |
| 4 | 2-Butenal | 70 | C4H6O | 004170-30-3 | 27 |
| 5 | Propanoic acid, 2-methyl- | 88 | C4H8O2 | 000079-31-2 | 27 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

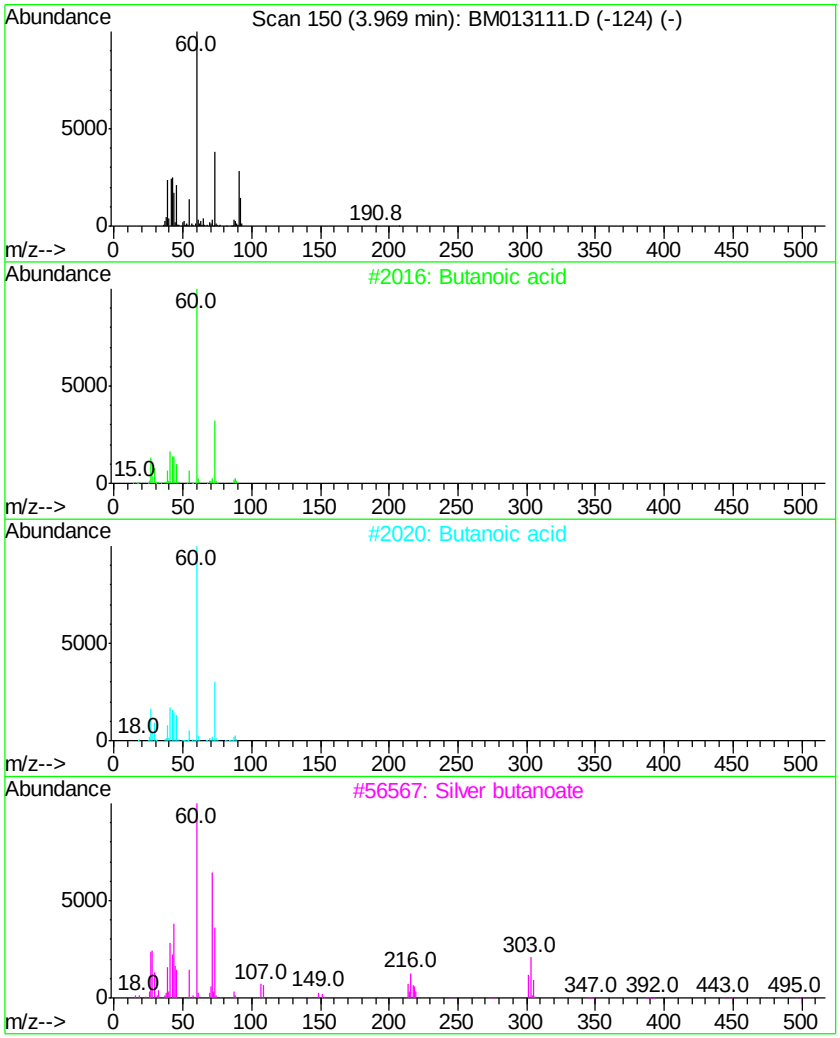
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

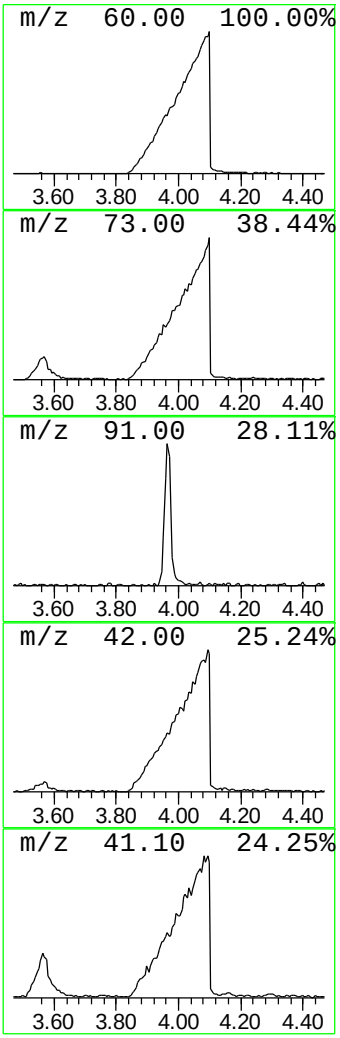
**********

Peak Number 2 Butanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.97 | 29.04 ng/ul | 1950090 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid | 88 | C4H8O2 | 000107-92-6 | 64 |
| 2 | Butanoic acid | 88 | C4H8O2 | 000107-92-6 | 64 |
| 3 | Silver butanoate | 194 | C4H7AgO2 | 005076-24-4 | 50 |
| 4 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 42 |
| 5 | Hydrazine, 1,1-dimethyl- | 60 | C2H8N2 | 000057-14-7 | 9 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

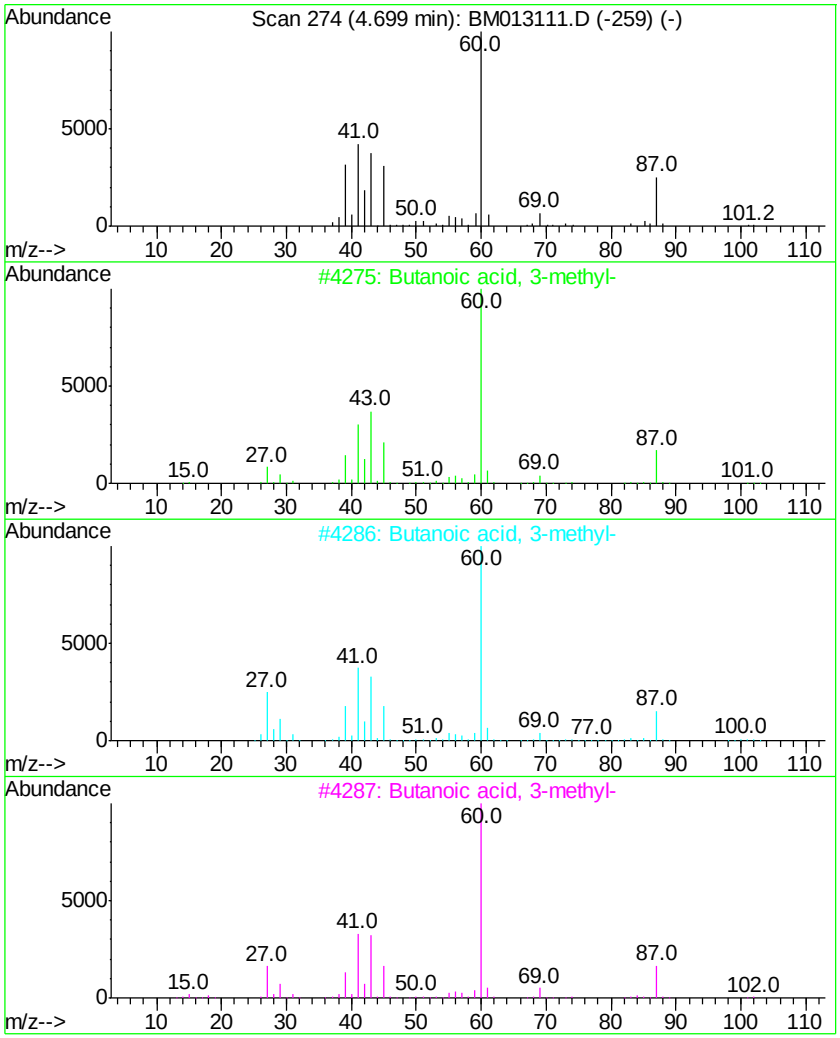
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

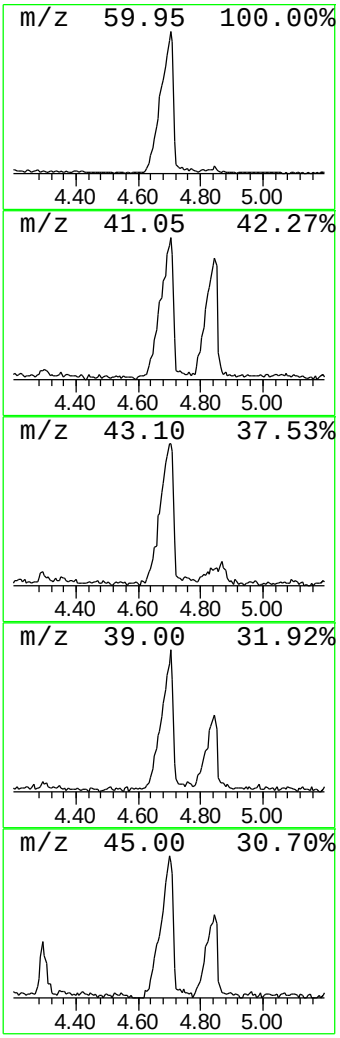
**********

Peak Number 3 Butanoic acid, 3-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.70 | 10.30 ng/ul | 691556 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 72 |
| 2 | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 72 |
| 3 | Butanoic acid, 3-methyl- | 102 | C5H10O2 | 000503-74-2 | 72 |
| 4 | Formic acid hydrazide | 60 | CH4N2O | 000624-84-0 | 50 |
| 5 | Thiazole, 4,5-dihydro-2-methyl- | 101 | C4H7NS | 002346-00-1 | 38 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

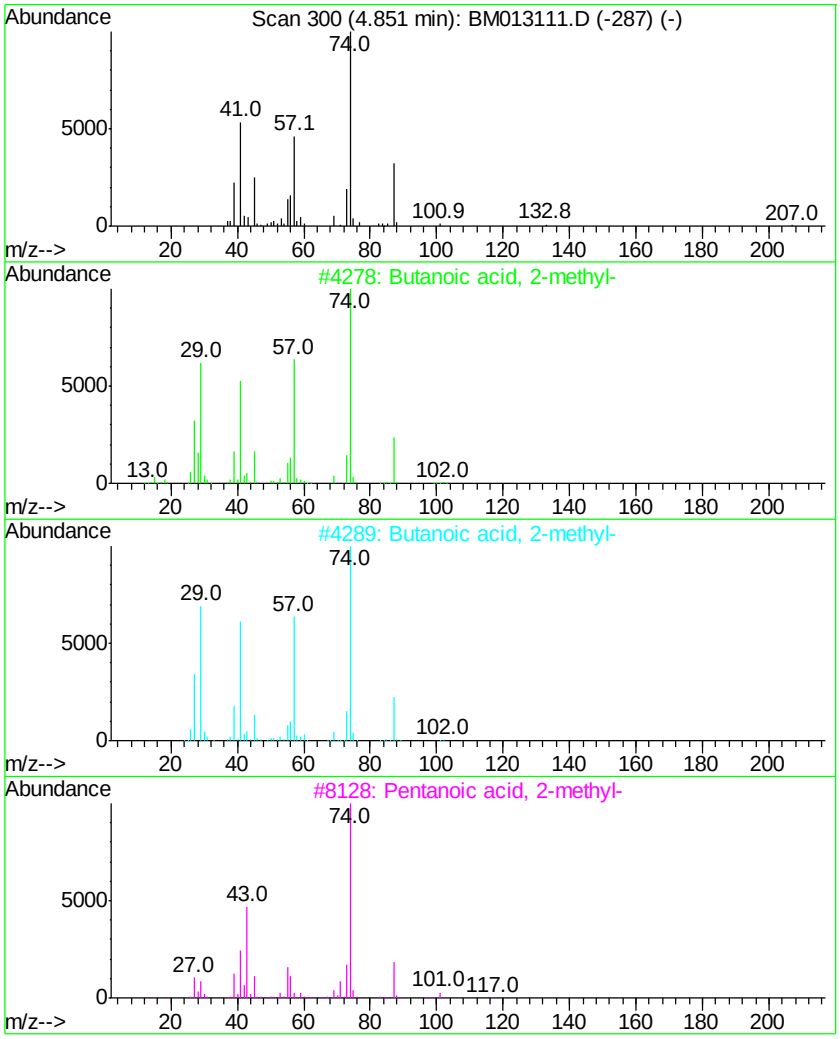
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

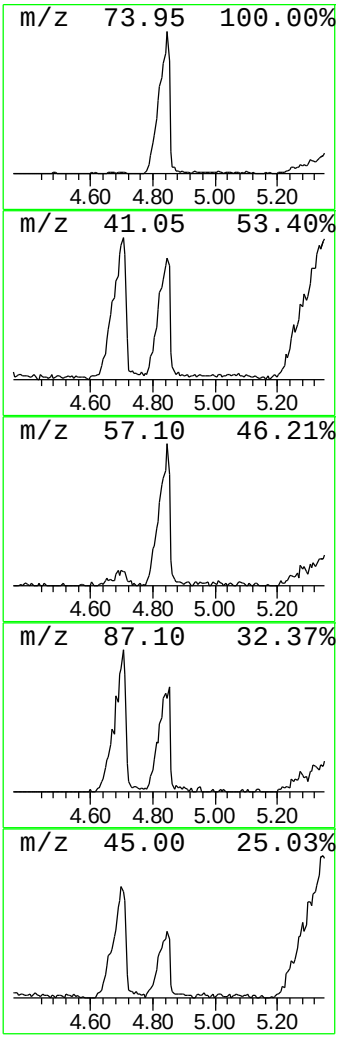
**********

Peak Number 4 Butanoic acid, 2-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.85 | 7.28 ng/ul | 489145 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanoic acid, 2-methyl- | 102 | C5H10O2 | 000116-53-0 | 64 |
| 2 | Butanoic acid, 2-methyl- | 102 | C5H10O2 | 000116-53-0 | 64 |
| 3 | Pentanoic acid, 2-methyl- | 116 | C6H12O2 | 000097-61-0 | 56 |
| 4 | Butanoic acid, 2-methyl- | 102 | C5H10O2 | 000116-53-0 | 45 |
| 5 | Hexanoic acid, 2-methyl- | 130 | C7H14O2 | 004536-23-6 | 45 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

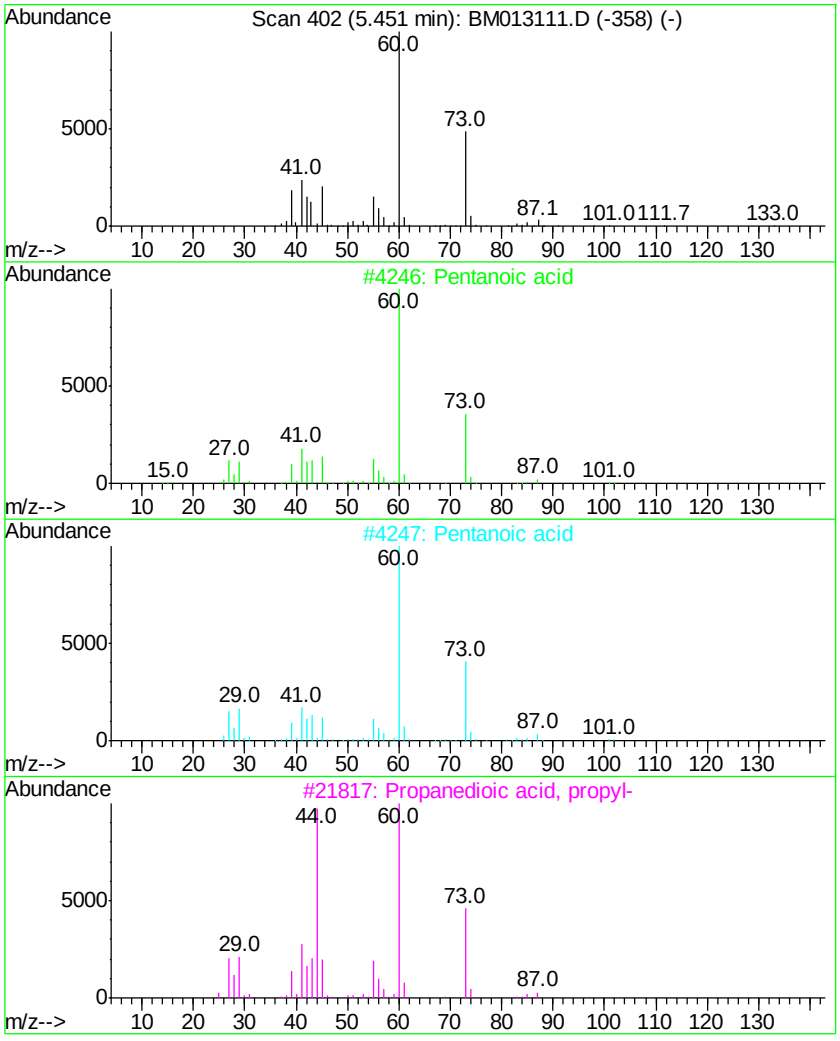
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

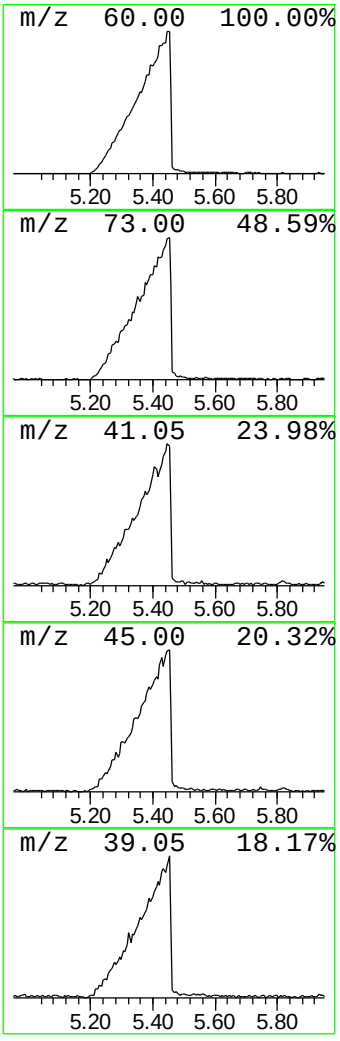
**********

Peak Number 5 Pentanoic acid Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.45 | 80.86 ng/ul | 5429950 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 90 |
| 2 | Pentanoic acid | 102 | C5H10O2 | 000109-52-4 | 83 |
| 3 | Propanedioic acid, propyl- | 146 | C6H10O4 | 000616-62-6 | 74 |
| 4 | Butanoic acid | 88 | C4H8O2 | 000107-92-6 | 72 |
| 5 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 64 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

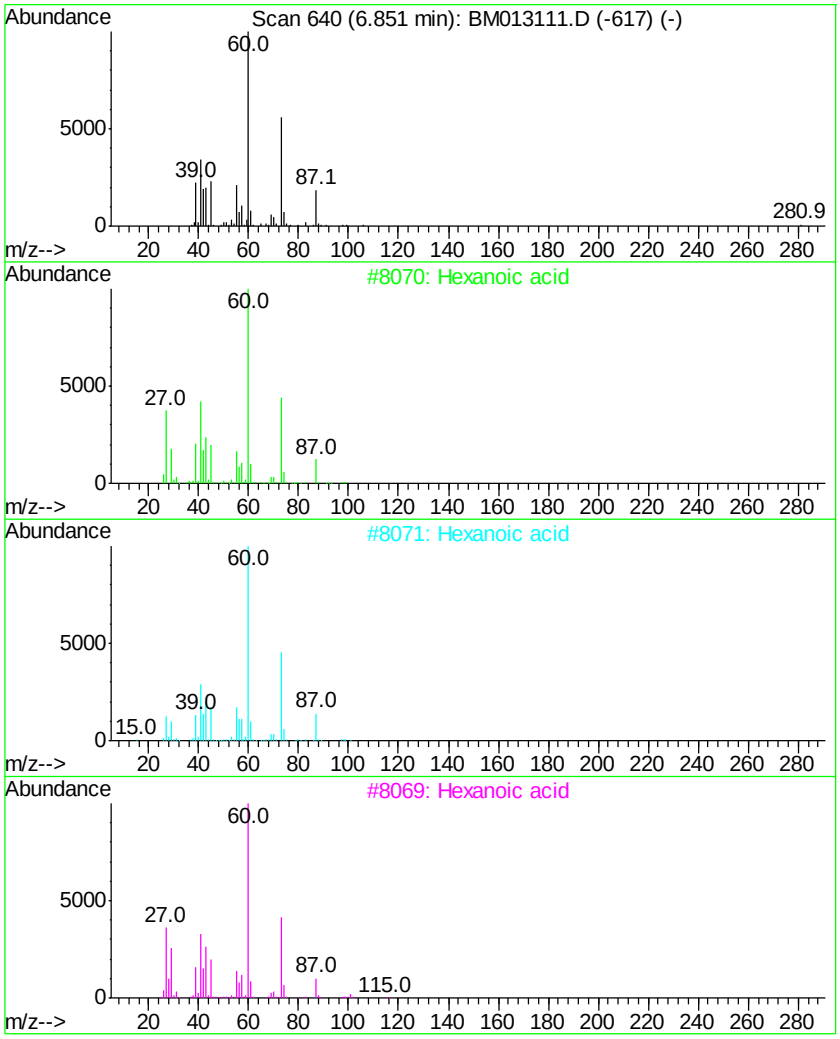
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

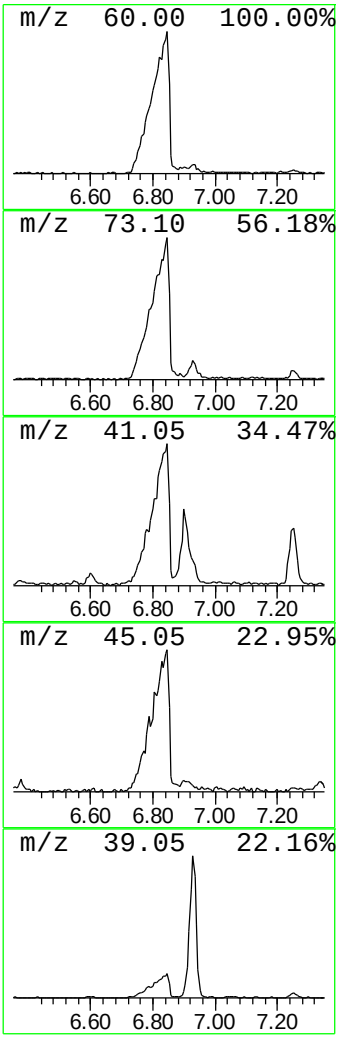
**********

Peak Number 6 Hexanoic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.85 | 23.70 ng/ul | 1591230 | 1,4-Dichlorobenzene-d4 | 7.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 90 |
| 2 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 78 |
| 3 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 64 |
| 4 | Hexanoic acid | 116 | C6H12O2 | 000142-62-1 | 64 |
| 5 | Octanoic acid | 144 | C8H16O2 | 000124-07-2 | 56 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

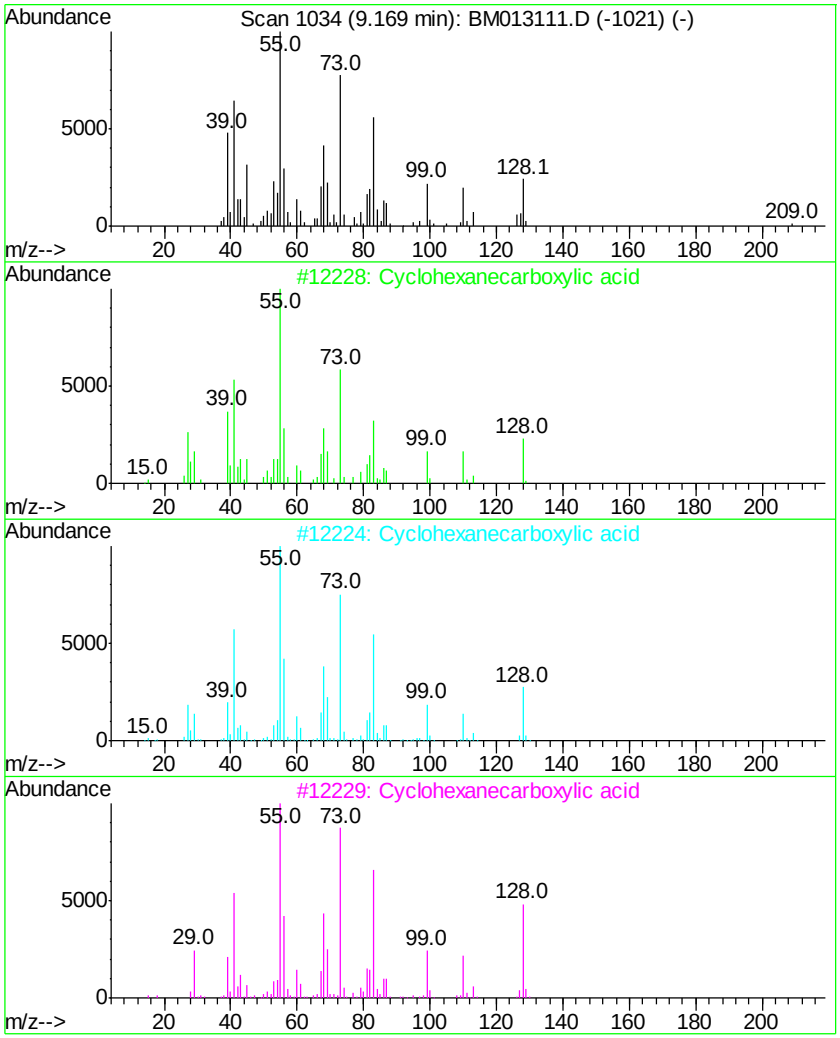
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

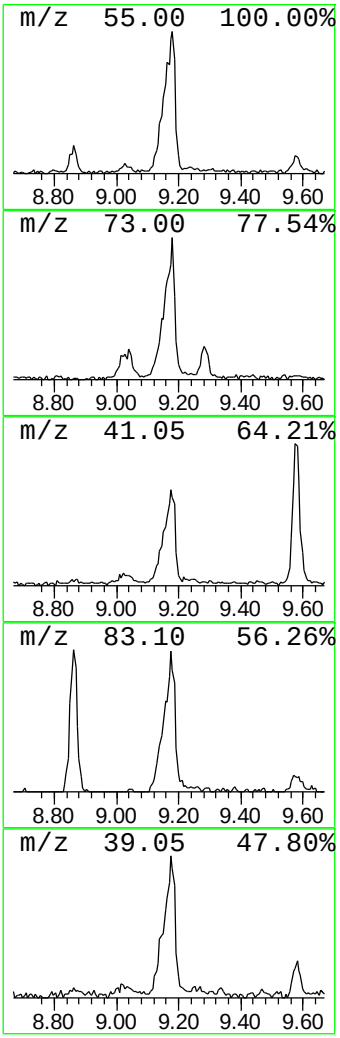
**********

Peak Number 7 Cyclohexanecarboxylic acid Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.17 | 7.31 ng/ul | 726231 | Naphthalene-d8 | 10.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanecarboxylic acid | 128 | C7H12O2 | 000098-89-5 | 95 |
| 2 | Cyclohexanecarboxylic acid | 128 | C7H12O2 | 000098-89-5 | 76 |
| 3 | Cyclohexanecarboxylic acid | 128 | C7H12O2 | 000098-89-5 | 70 |
| 4 | 3,4-Dihydro-2H-pyran-2-carboxyli... | 128 | C6H8O3 | 1000132-10-4 | 38 |
| 5 | 2-Pyrazoline, 1-allyl- | 110 | C6H10N2 | 019804-38-7 | 22 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

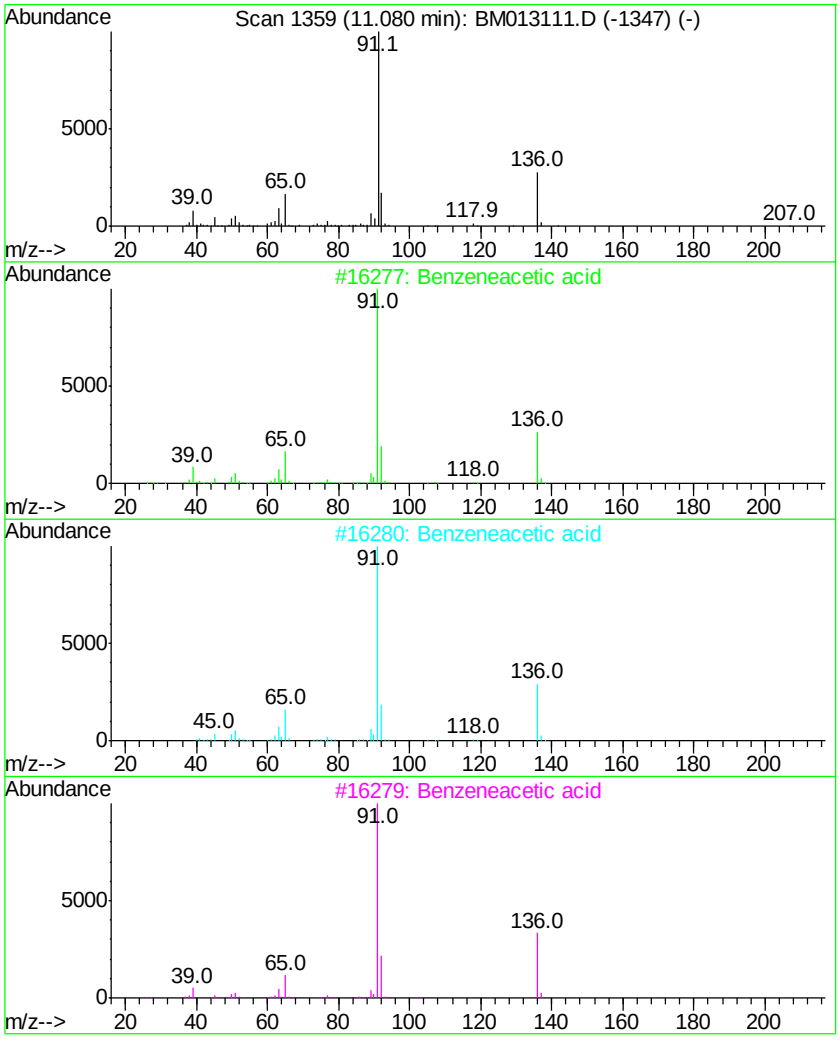
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

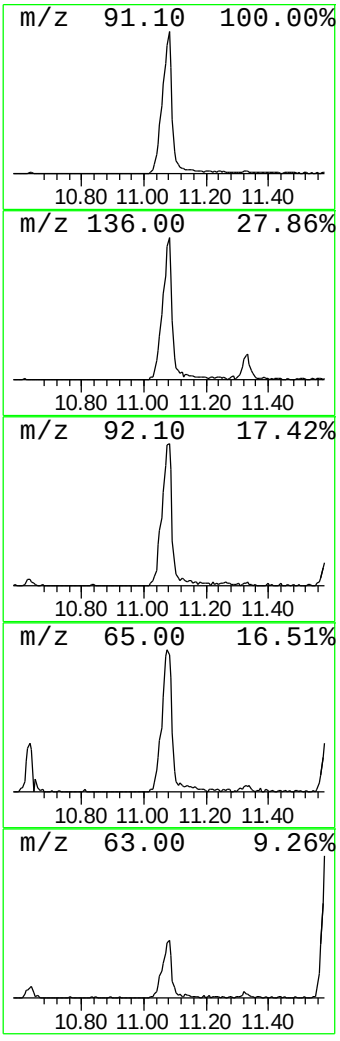
**********

Peak Number 8 Benzeneacetic acid Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.08 | 11.57 ng/ul | 1149250 | Naphthalene-d8 | 10.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzeneacetic acid | 136 | C8H8O2 | 000103-82-2 | 95 |
| 2 | Benzeneacetic acid | 136 | C8H8O2 | 000103-82-2 | 94 |
| 3 | Benzeneacetic acid | 136 | C8H8O2 | 000103-82-2 | 80 |
| 4 | Propanedioic acid, phenyl- | 180 | C9H8O4 | 002613-89-0 | 72 |
| 5 | Benzeneacetic acid | 136 | C8H8O2 | 000103-82-2 | 72 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

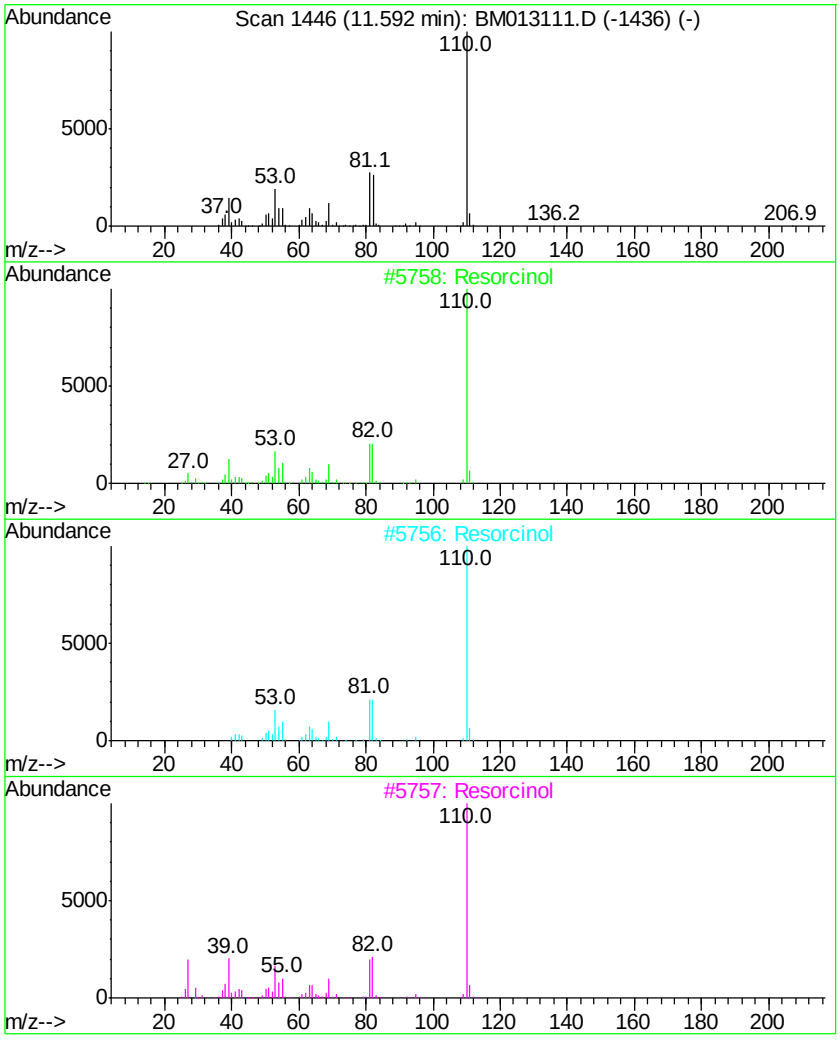
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

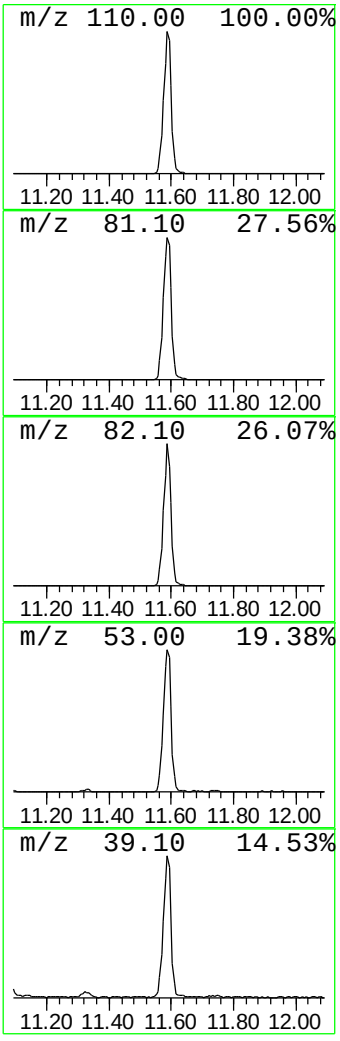
**********

Peak Number 9 Resorcinol Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.59 | 31.14 ng/ul | 3093310 | Naphthalene-d8 | 10.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Resorcinol | 110 | C6H6O2 | 000108-46-3 | 97 |
| 2 | Resorcinol | 110 | C6H6O2 | 000108-46-3 | 97 |
| 3 | Resorcinol | 110 | C6H6O2 | 000108-46-3 | 91 |
| 4 | Hydroquinone | 110 | C6H6O2 | 000123-31-9 | 83 |
| 5 | Hydroquinone | 110 | C6H6O2 | 000123-31-9 | 78 |



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Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

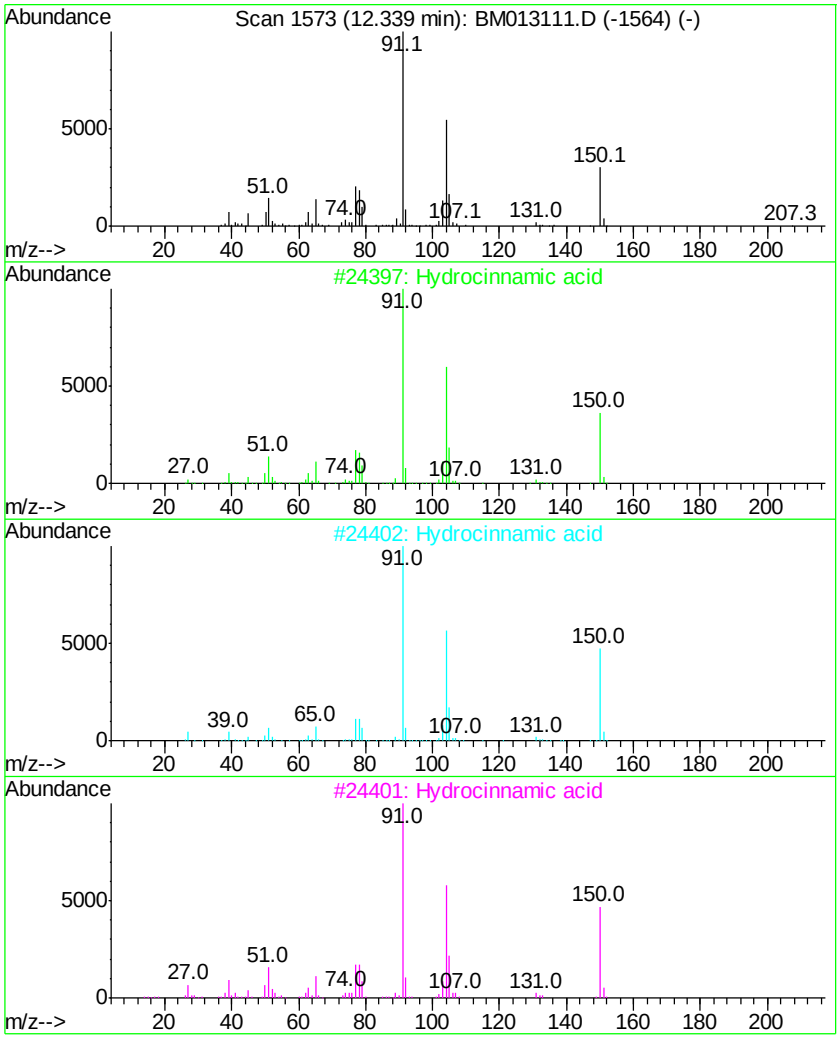
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

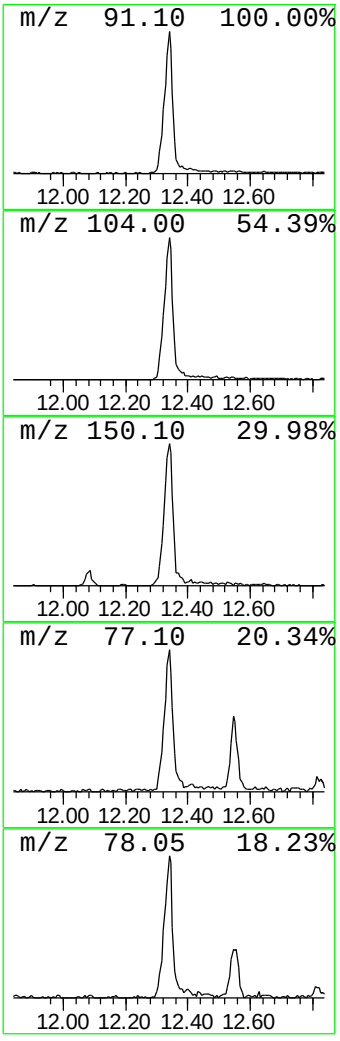
**********

Peak Number 10 Hydrocinnamic acid Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.34 | 12.94 ng/ul | 1285110 | Naphthalene-d8 | 10.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hydrocinnamic acid | 150 | C9H10O2 | 000501-52-0 | 96 |
| 2 | Hydrocinnamic acid | 150 | C9H10O2 | 000501-52-0 | 90 |
| 3 | Hydrocinnamic acid | 150 | C9H10O2 | 000501-52-0 | 90 |
| 4 | 4-Nitrosophenyl-.beta.-phenylpro... | 255 | C15H13NO3 | 1000129-40-0 | 90 |
| 5 | Hydrocinnamic acid | 150 | C9H10O2 | 000501-52-0 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

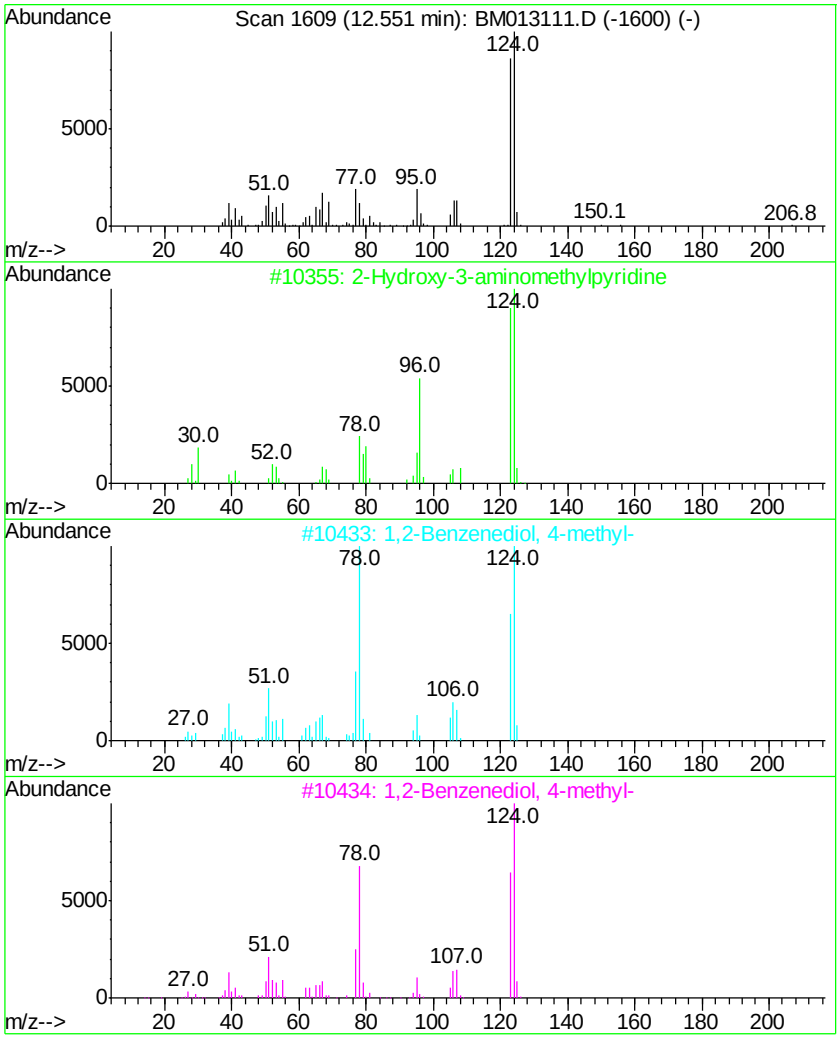
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

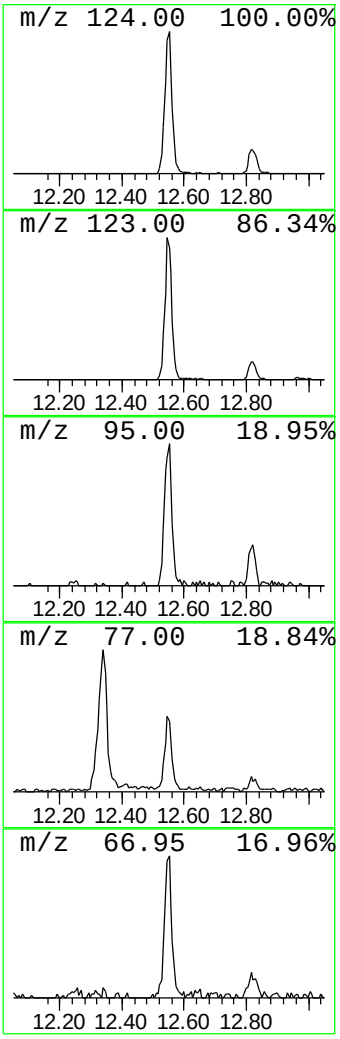
**********

Peak Number 11 2-Hydroxy-3-aminomethylpyri... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.55 | 4.98 ng/ul | 677189 | Acenaphthene-d10 | 14.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Hydroxy-3-aminomethylpyridine | 124 | C6H8N2O | 123369-45-9 | 64 |
| 2 | 1,2-Benzenediol, 4-methyl- | 124 | C7H8O2 | 000452-86-8 | 64 |
| 3 | 1,2-Benzenediol, 4-methyl- | 124 | C7H8O2 | 000452-86-8 | 64 |
| 4 | Orcinol | 124 | C7H8O2 | 000504-15-4 | 62 |
| 5 | 1,3-Benzenediol, 2-methyl- | 124 | C7H8O2 | 000608-25-3 | 59 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

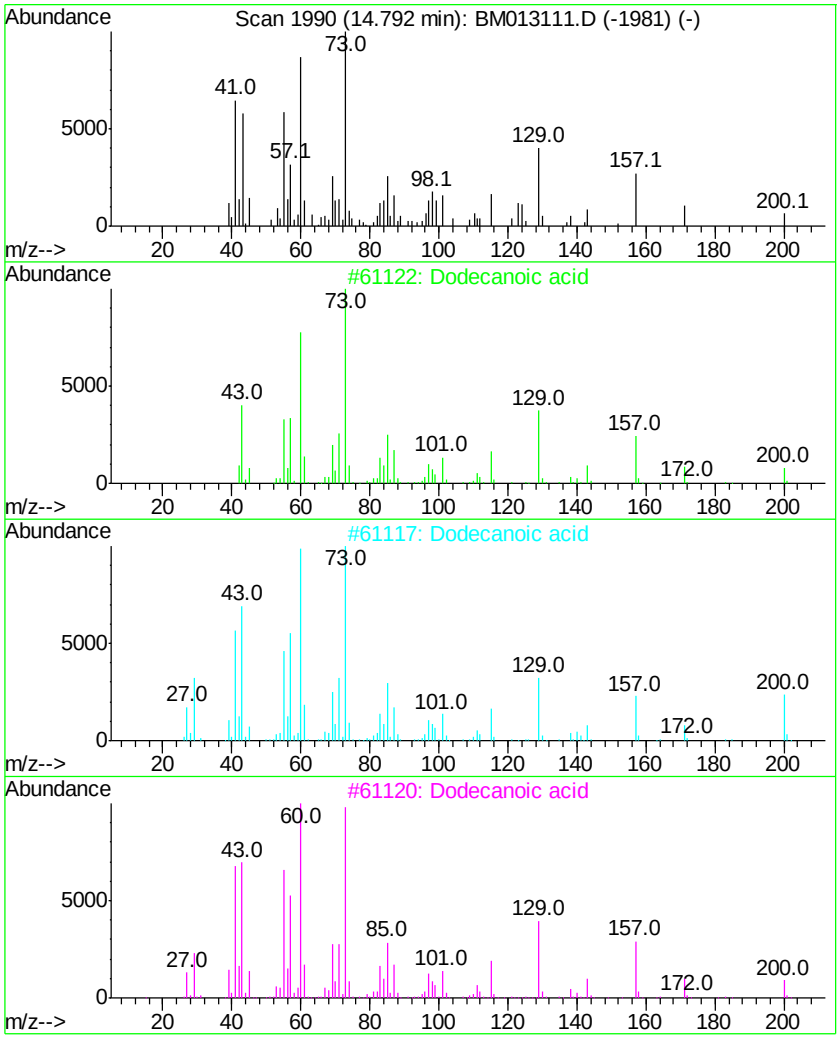
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

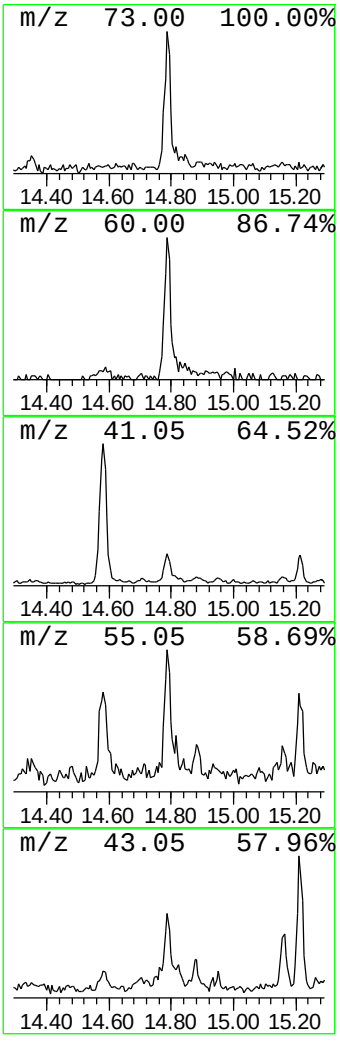
**********

Peak Number 12 Dodecanoic acid Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.79 | 2.31 ng/ul | 313841 | Acenaphthene-d10 | 14.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 93 |
| 2 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 91 |
| 3 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 76 |
| 4 | Nonanoic acid | 158 | C9H18O2 | 000112-05-0 | 58 |
| 5 | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 50 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

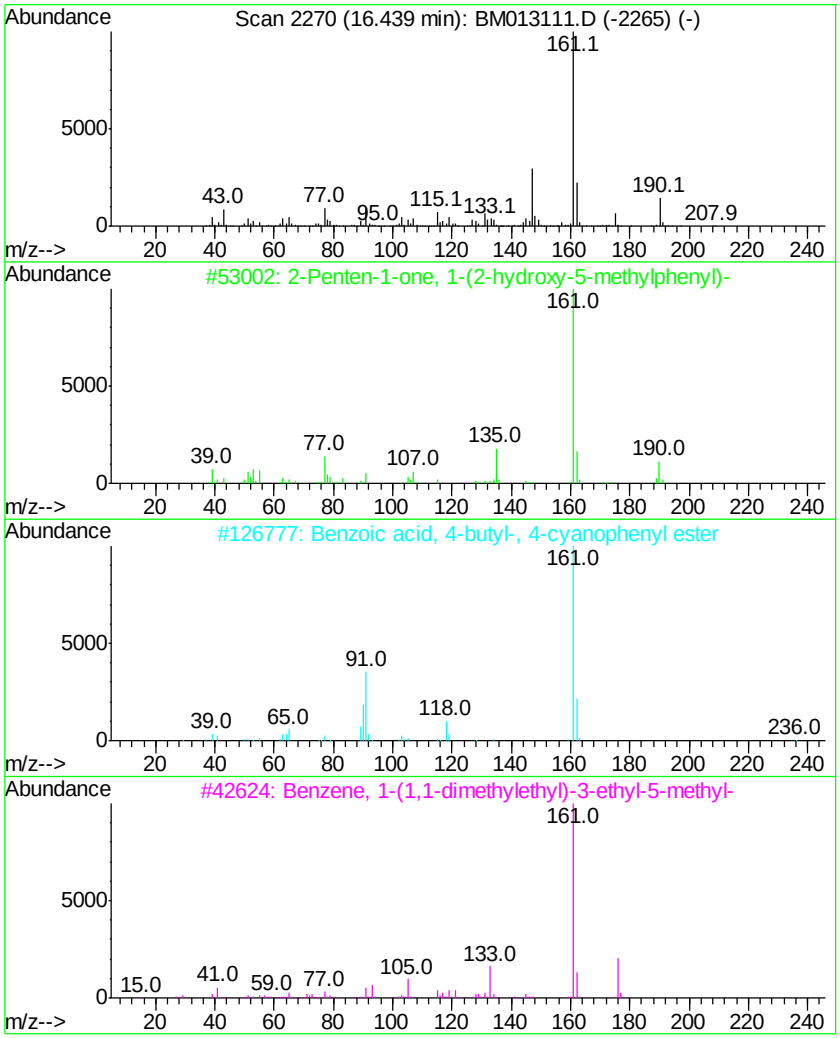
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

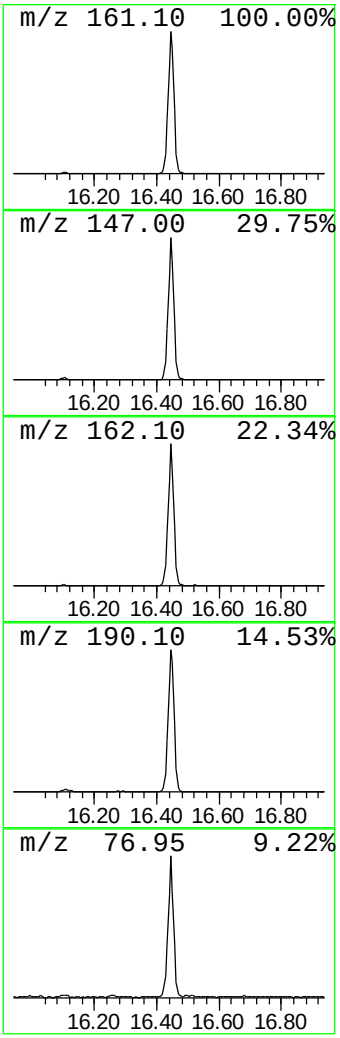
**********

Peak Number 13 2-Penten-1-one, 1-(2-hydrox... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.44 | 32.68 ng/ul | 5270910 | Phenanthrene-d10 | 17.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Penten-1-one, 1-(2-hydroxy-5-m... | 190 | C12H14O2 | 051956-78-6 | 58 |
| 2 | Benzoic acid, 4-butyl-, 4-cyanop... | 279 | C18H17NO2 | 038690-77-6 | 47 |
| 3 | Benzene, 1-(1,1-dimethylethyl)-3... | 176 | C13H20 | 006630-01-9 | 47 |
| 4 | Benzene, 1,3-bis(1-methylpropyl)- | 190 | C14H22 | 001079-96-5 | 45 |
| 5 | Benzene, ethylpentamethyl- | 176 | C13H20 | 002388-04-7 | 40 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

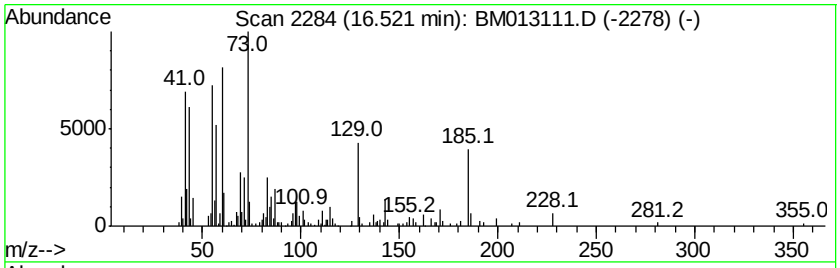
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

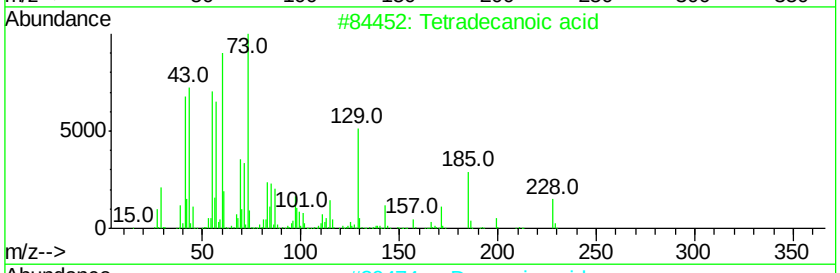
**********

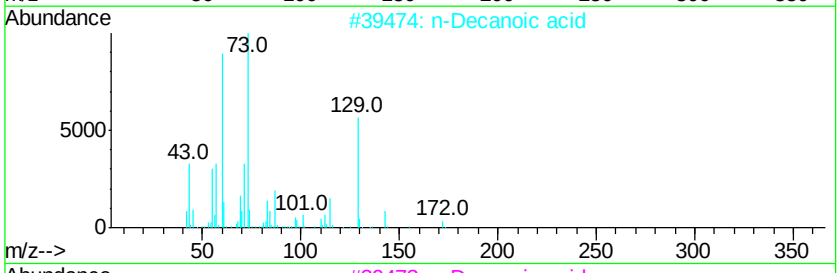
Peak Number 14 Tetradecanoic acid Concentration Rank 17

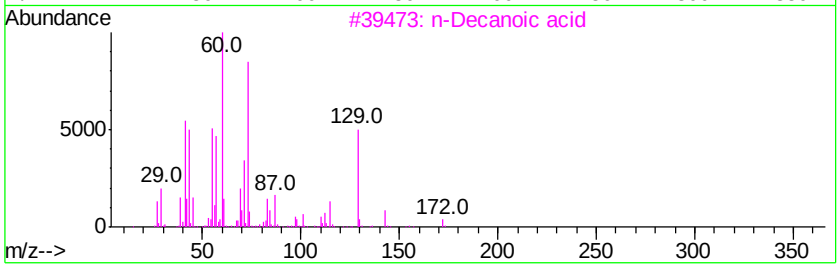
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.52 | 2.48 ng/ul | 399566 | Phenanthrene-d10 | 17.10 |

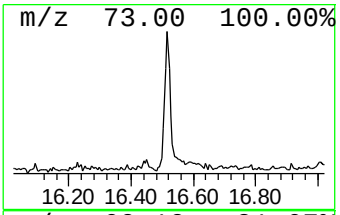
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 96 |
| 2 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 89 |
| 3 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 86 |
| 4 | Decanoic acid, silver(1+) salt | 278 | C10H19AgO2 | 013126-67-5 | 74 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |

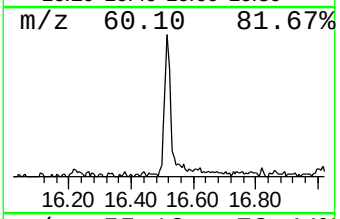


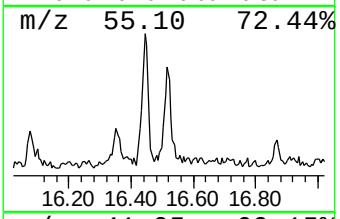



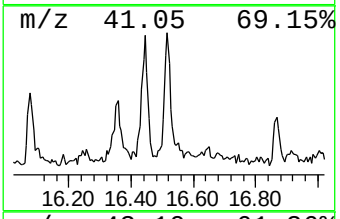



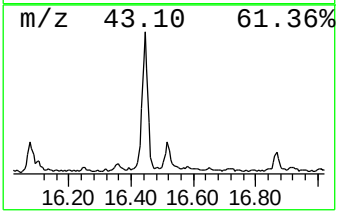



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

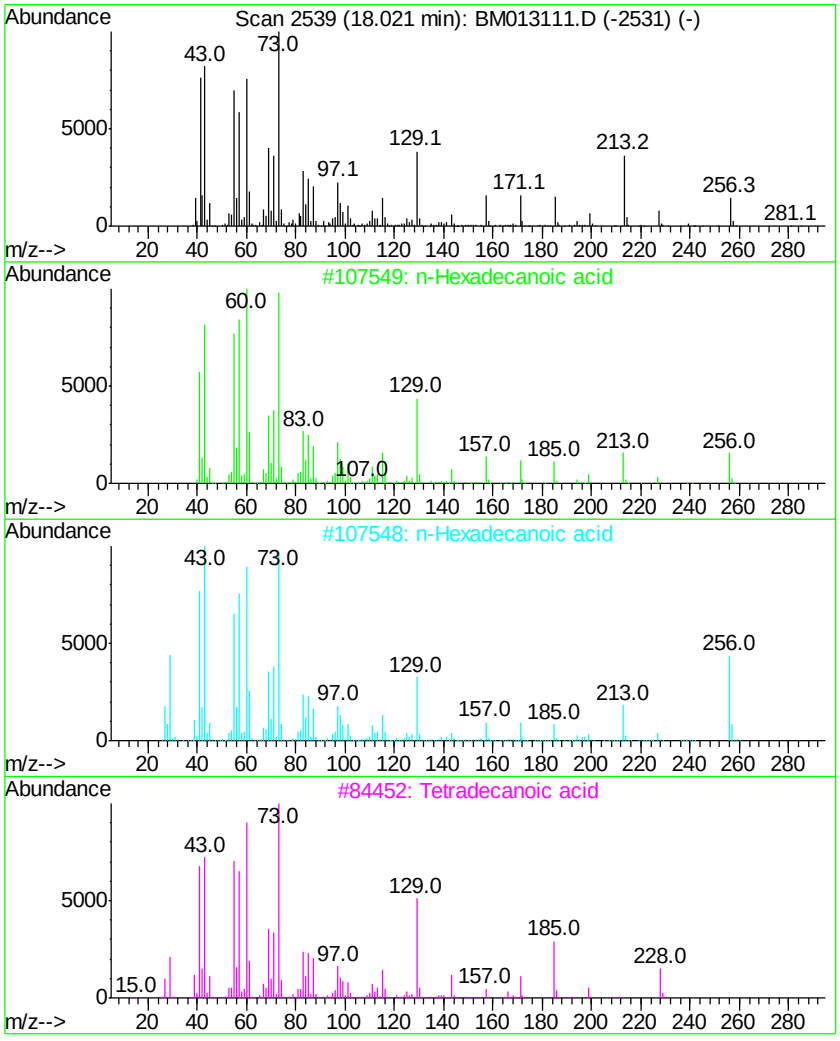
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

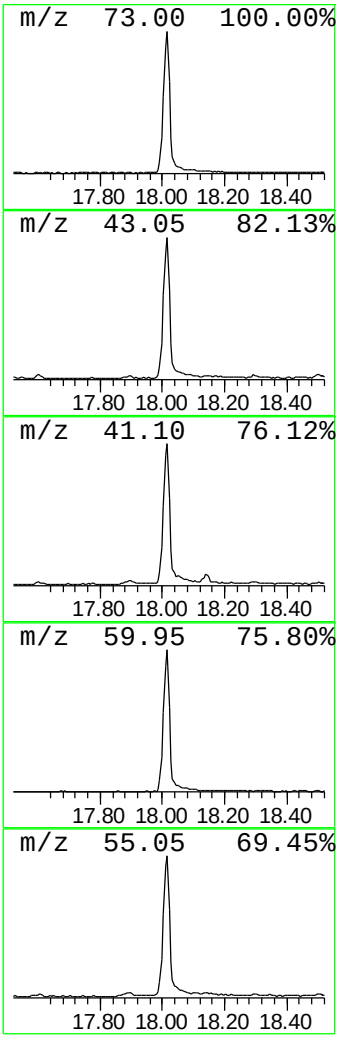
**********

Peak Number 15 n-Hexadecanoic acid Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.02 | 26.90 ng/ul | 4338320 | Phenanthrene-d10 | 17.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 98 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 90 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 89 |
| 5 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

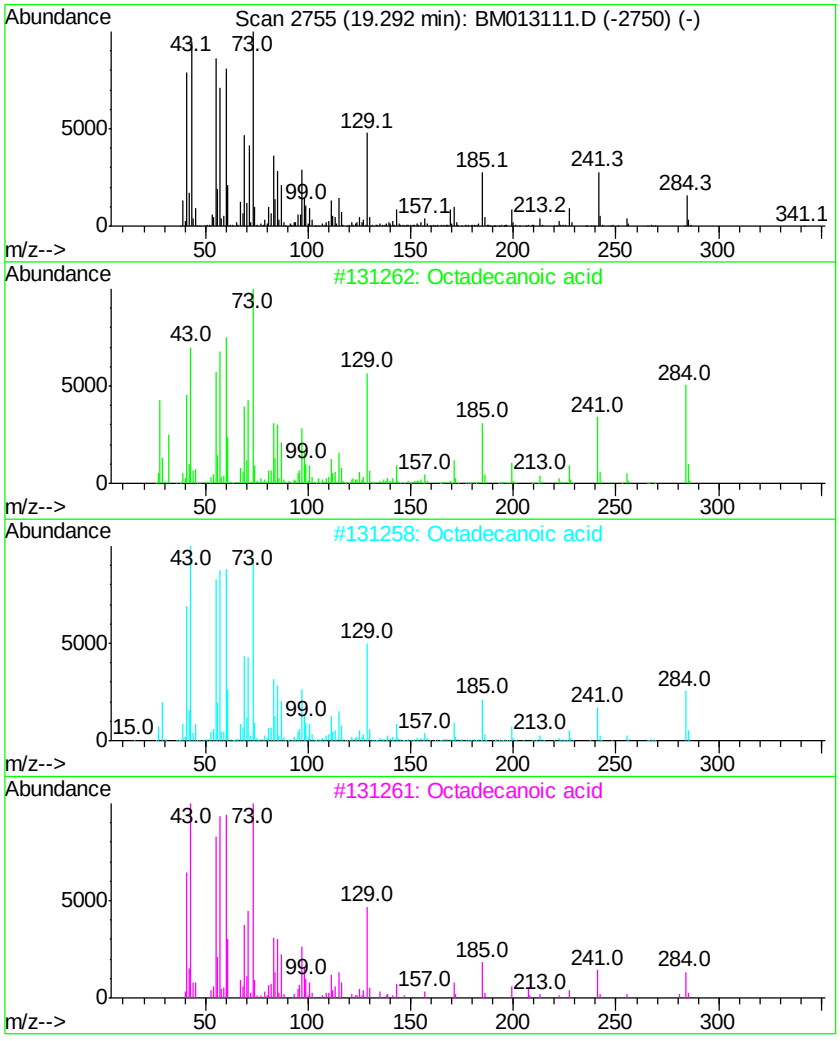
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

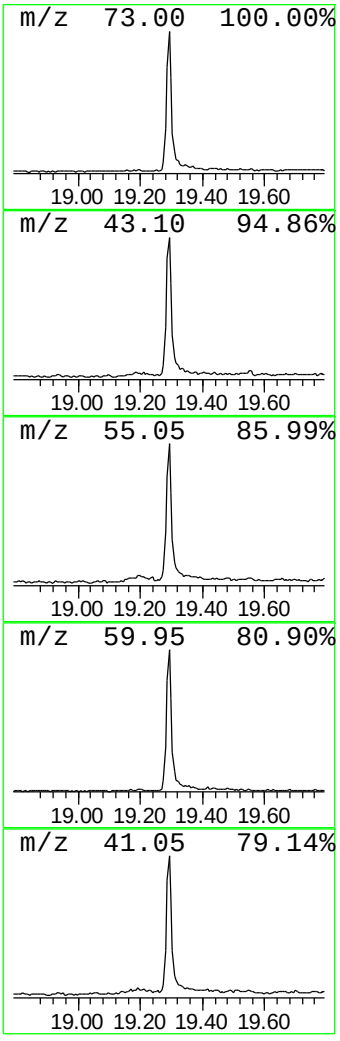
**********

Peak Number 16 Octadecanoic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.29 | 16.72 ng/ul | 2519850 | Chrysene-d12 | 21.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 3 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 98 |
| 4 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 93 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

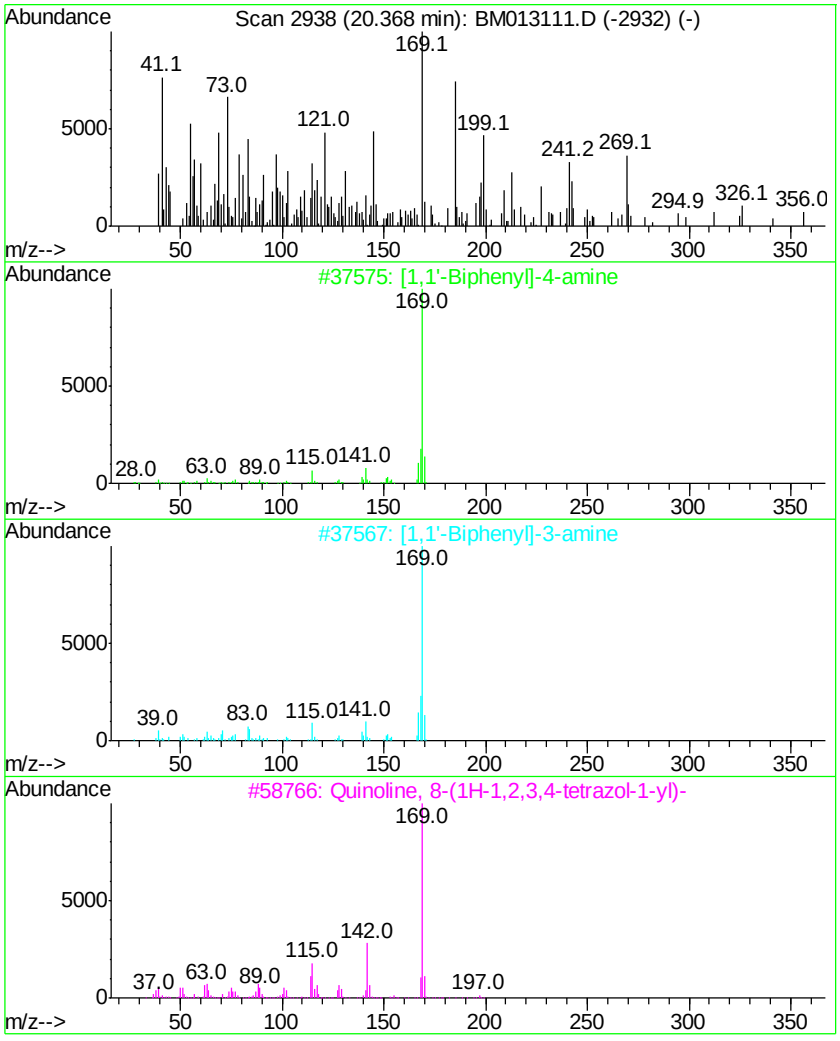
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

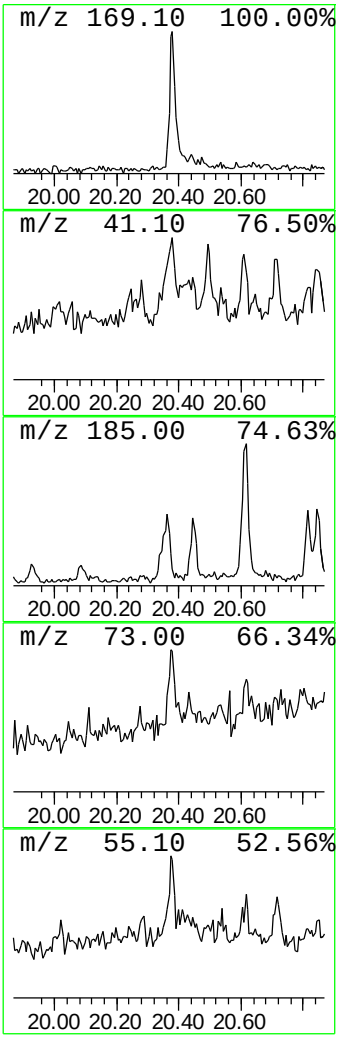
**********

Peak Number 17 unknown-02 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.37 | 2.42 ng/ul | 364613 | Chrysene-d12 | 21.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | [1,1'-Biphenyl]-4-amine | 169 | C12H11N | 000092-67-1 | 41 |
| 2 | [1,1'-Biphenyl]-3-amine | 169 | C12H11N | 002243-47-2 | 38 |
| 3 | Quinoline, 8-(1H-1,2,3,4-tetrazo... | 197 | C10H7N5 | 1000337-42-6 | 38 |
| 4 | Pyridine, 4-(phenylmethyl)- | 169 | C12H11N | 002116-65-6 | 38 |
| 5 | Pyrimidine-2,4(1H,3H)-dione, 6-h... | 169 | C6H7N3O3 | 1000264-12-5 | 38 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

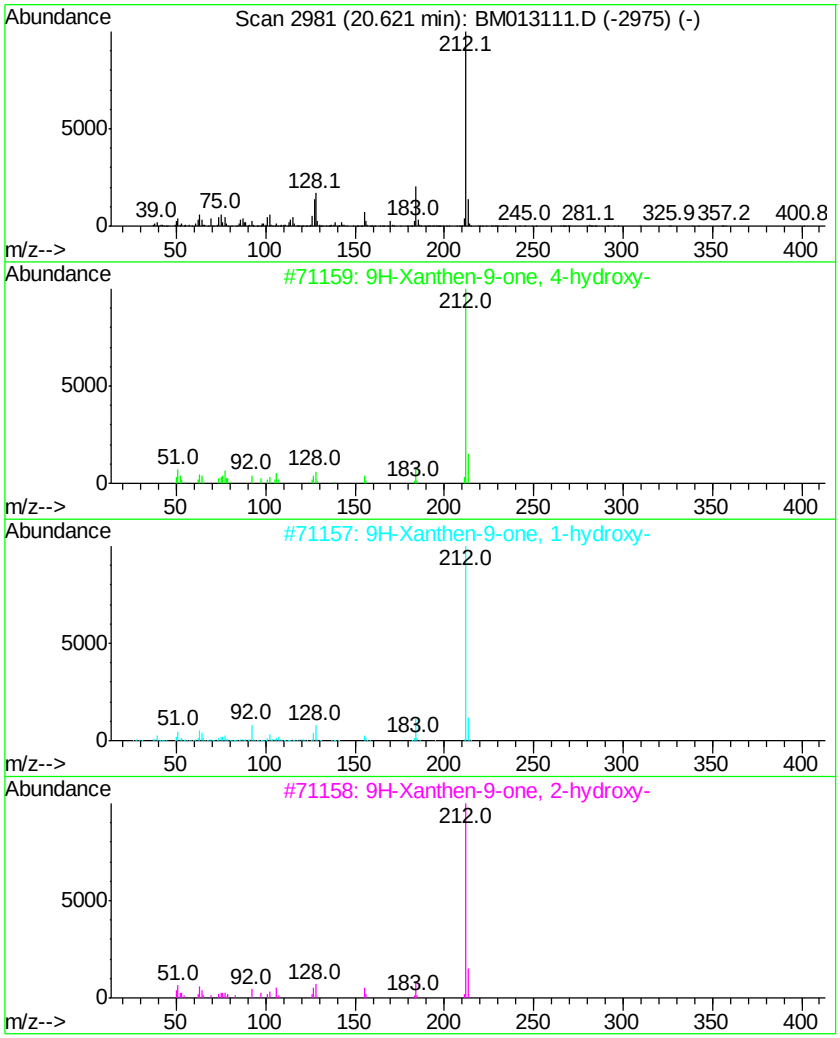
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

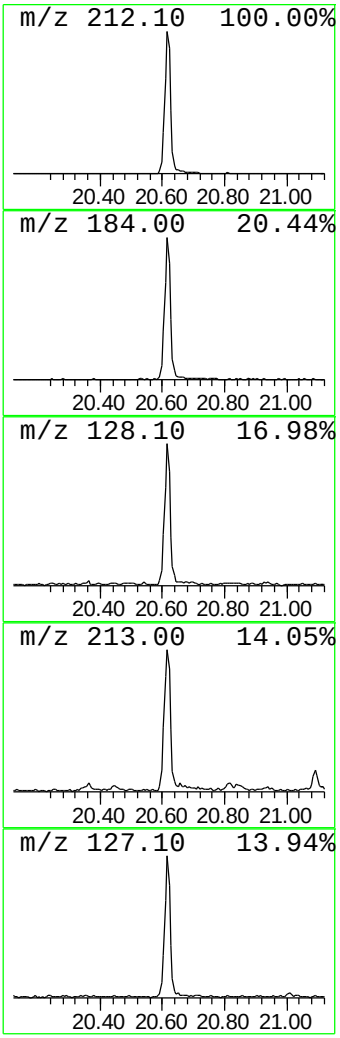
**********

Peak Number 18 9H-Xanthen-9-one, 4-hydroxy- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.62 | 12.77 ng/ul | 1925190 | Chrysene-d12 | 21.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Xanthen-9-one, 4-hydroxy- | 212 | C13H8O3 | 014686-63-6 | 91 |
| 2 | 9H-Xanthen-9-one, 1-hydroxy- | 212 | C13H8O3 | 000719-41-5 | 90 |
| 3 | 9H-Xanthen-9-one, 2-hydroxy- | 212 | C13H8O3 | 001915-98-6 | 87 |
| 4 | 2,3-Phenazinediol | 212 | C12H8N2O2 | 019220-18-9 | 72 |
| 5 | 1,9-Phenazinediyl diacetate | 296 | C16H12N2O4 | 023663-39-0 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA CALIBRATION

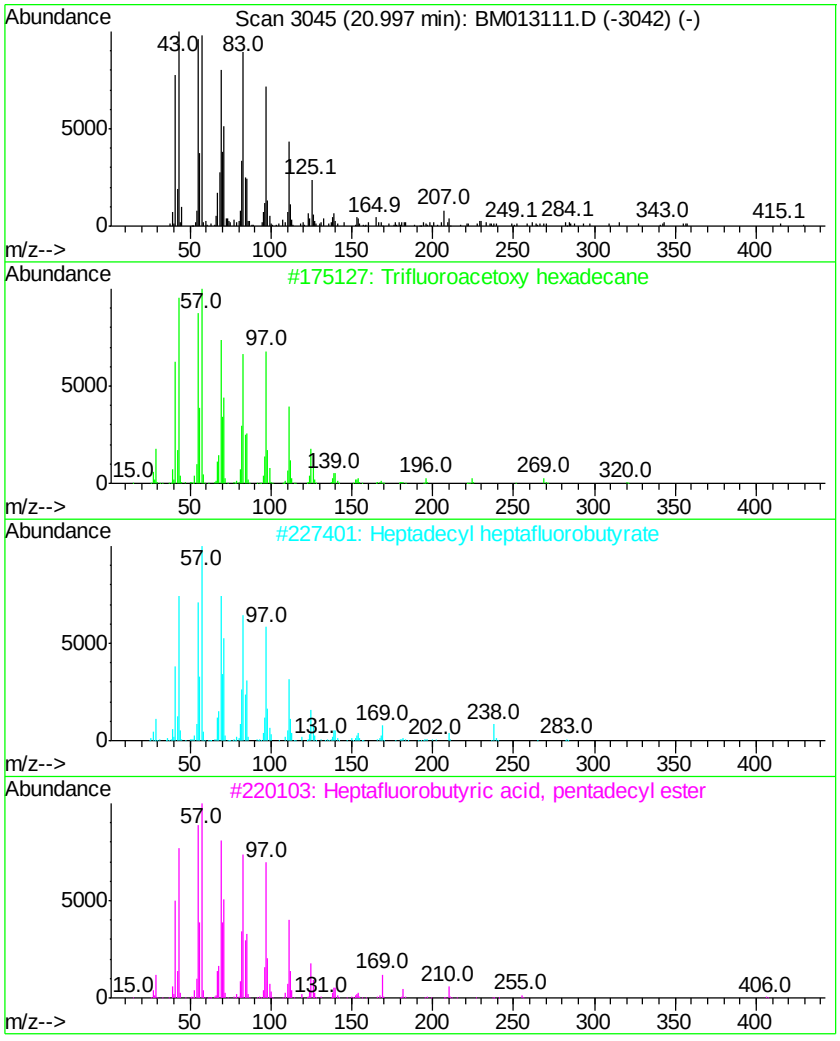
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

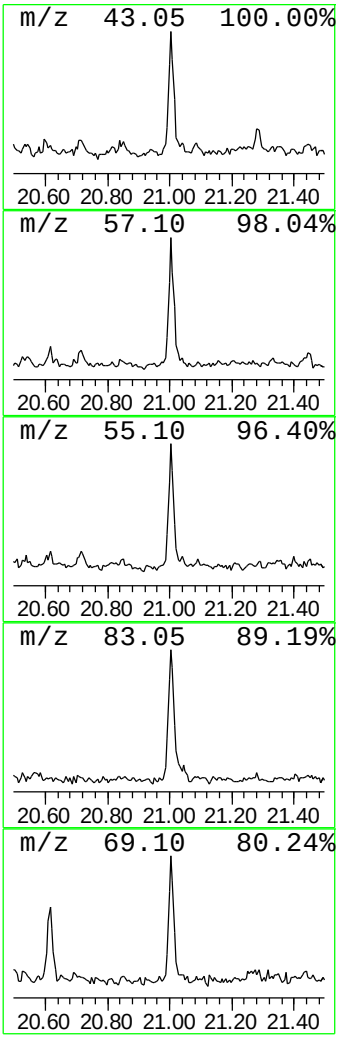
**********

Peak Number 19 Trifluoroacetoxy hexadecane Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.00 | 4.16 ng/ul | 627681 | Chrysene-d12 | 21.28 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Trifluoroacetoxy hexadecane | 338 | C18H33F3O2 | 006222-03-3 | 94 |
| 2 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 94 |
| 3 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94 |
| 4 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 94 |
| 5 | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112717\
Data File : BM013111.D
Acq On : 27 Nov 2017 14:45
Operator : SJ/JU
Sample : I6496-13
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AA3

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111617.M
Quant Title : SVOA 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 |
| unknown-01 | 3.57 | 5.4 | ng/ul | 364618 | 1 | 7.71 | 1343060 | 20.0 |
| Butanoic acid | 3.97 | 29.0 | ng/ul | 1950090 | 1 | 7.71 | 1343060 | 20.0 |
| Butanoic acid, 3-... | 4.70 | 10.3 | ng/ul | 691556 | 1 | 7.71 | 1343060 | 20.0 |
| Butanoic acid, 2-... | 4.85 | 7.3 | ng/ul | 489145 | 1 | 7.71 | 1343060 | 20.0 |
| Pentanoic acid | 5.45 | 80.9 | ng/ul | 5429950 | 1 | 7.71 | 1343060 | 20.0 |
| Hexanoic acid | 6.85 | 23.7 | ng/ul | 1591230 | 1 | 7.71 | 1343060 | 20.0 |
| Cyclohexanecarbox... | 9.17 | 7.3 | ng/ul | 726231 | 2 | 10.49 | 1986580 | 20.0 |
| Benzeneacetic acid | 11.08 | 11.6 | ng/ul | 1149250 | 2 | 10.49 | 1986580 | 20.0 |
| Resorcinol | 11.59 | 31.1 | ng/ul | 3093310 | 2 | 10.49 | 1986580 | 20.0 |
| Hydrocinnamic acid | 12.34 | 12.9 | ng/ul | 1285110 | 2 | 10.49 | 1986580 | 20.0 |
| 2-Hydroxy-3-amino... | 12.55 | 5.0 | ng/ul | 677189 | 3 | 14.35 | 2721220 | 20.0 |
| Dodecanoic acid | 14.79 | 2.3 | ng/ul | 313841 | 3 | 14.35 | 2721220 | 20.0 |
| 2-Penten-1-one, 1... | 16.44 | 32.7 | ng/ul | 5270910 | 4 | 17.10 | 3225830 | 20.0 |
| Tetradecanoic acid | 16.52 | 2.5 | ng/ul | 399566 | 4 | 17.10 | 3225830 | 20.0 |
| n-Hexadecanoic acid | 18.02 | 26.9 | ng/ul | 4338320 | 4 | 17.10 | 3225830 | 20.0 |
| Octadecanoic acid | 19.29 | 16.7 | ng/ul | 2519850 | 5 | 21.28 | 3014640 | 20.0 |
| unknown-02 | 20.37 | 2.4 | ng/ul | 364613 | 5 | 21.28 | 3014640 | 20.0 |
| 9H-Xanthen-9-one,... | 20.62 | 12.8 | ng/ul | 1925190 | 5 | 21.28 | 3014640 | 20.0 |
| Trifluoroacetoxy ... | 21.00 | 4.2 | ng/ul | 627681 | 5 | 21.28 | 3014640 | 20.0 |