LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

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-BM041918.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 | 3.316 | 3 | 5 | 10 | rVB | 372609 | 427170 | 2.26% | 0.203% |
| 2 | 3.369 | 10 | 14 | 20 | rVV | 901199 | 1172915 | 6.21% | 0.558% |
| 3 | 3.422 | 20 | 23 | 34 | rVB2 | 136133 | 199679 | 1.06% | 0.095% |
| 4 | 4.263 | 161 | 166 | 175 | rVB | 323999 | 452733 | 2.40% | 0.215% |
| 5 | 5.516 | 373 | 379 | 388 | rVB2 | 140706 | 252487 | 1.34% | 0.120% |
| 6 | 7.663 | 737 | 744 | 758 | rBV2 | 1028669 | 2028763 | 10.74% | 0.965% |
| 7 | 7.846 | 766 | 775 | 784 | rBV | 892898 | 1432692 | 7.59% | 0.681% |
| 8 | 8.063 | 803 | 812 | 819 | rBV | 1091513 | 1825045 | 9.67% | 0.868% |
| 9 | 8.545 | 887 | 894 | 906 | rVB | 1097919 | 1840360 | 9.75% | 0.875% |
| 10 | 9.240 | 1005 | 1012 | 1021 | rBV | 1028613 | 1685312 | 8.93% | 0.802% |
| 11 | 9.728 | 1087 | 1095 | 1102 | rBV | 1042229 | 1841783 | 9.75% | 0.876% |
| 12 | 10.457 | 1210 | 1219 | 1227 | rBV | 820965 | 1413808 | 7.49% | 0.672% |
| 13 | 10.992 | 1303 | 1310 | 1319 | rBV | 1304313 | 2194230 | 11.62% | 1.044% |
| 14 | 11.386 | 1370 | 1377 | 1384 | rBV | 1447106 | 2529407 | 13.40% | 1.203% |
| 15 | 11.510 | 1391 | 1398 | 1416 | rBV | 1017155 | 1894705 | 10.03% | 0.901% |
| 16 | 14.533 | 1905 | 1912 | 1916 | rBV | 2172473 | 3052110 | 16.16% | 1.452% |
| 17 | 14.580 | 1916 | 1920 | 1925 | rVB | 598079 | 825082 | 4.37% | 0.392% |
| 18 | 14.845 | 1958 | 1965 | 1977 | rBV | 2645792 | 3957383 | 20.96% | 1.882% |
| 19 | 14.992 | 1985 | 1990 | 1996 | rVB | 186984 | 233754 | 1.24% | 0.111% |
| 20 | 15.145 | 2005 | 2016 | 2022 | rBV2 | 1985160 | 3183930 | 16.86% | 1.514% |
| 21 | 15.204 | 2022 | 2026 | 2035 | rVB | 171777 | 258987 | 1.37% | 0.123% |
| 22 | 15.298 | 2035 | 2042 | 2050 | rBV | 536193 | 827113 | 4.38% | 0.393% |
| 23 | 15.927 | 2145 | 2149 | 2155 | rVB | 224193 | 314172 | 1.66% | 0.149% |
| 24 | 16.121 | 2175 | 2182 | 2188 | rBV | 3175799 | 4615493 | 24.44% | 2.195% |
| 25 | 16.216 | 2194 | 2198 | 2204 | rVB | 265246 | 369310 | 1.96% | 0.176% |
| 26 | 16.333 | 2209 | 2218 | 2230 | rVB4 | 84749 | 250106 | 1.32% | 0.119% |
| 27 | 16.463 | 2236 | 2240 | 2245 | rVB2 | 148380 | 210507 | 1.11% | 0.100% |
| 28 | 16.780 | 2290 | 2294 | 2310 | rVB | 214533 | 436808 | 2.31% | 0.208% |
| 29 | 17.857 | 2471 | 2477 | 2481 | rBV | 2360519 | 3525845 | 18.67% | 1.677% |
| 30 | 17.898 | 2481 | 2484 | 2488 | rVB | 1305024 | 1695263 | 8.98% | 0.806% |
| 31 | 17.951 | 2488 | 2493 | 2498 | rBV | 3223279 | 4608150 | 24.41% | 2.192% |
| 32 | 18.245 | 2536 | 2543 | 2548 | rBV2 | 285869 | 483663 | 2.56% | 0.230% |
| 33 | 18.568 | 2593 | 2598 | 2604 | rBV3 | 131526 | 213166 | 1.13% | 0.101% |
| 34 | 18.680 | 2612 | 2617 | 2620 | rBV | 522493 | 713973 | 3.78% | 0.340% |

LSC Area Percent Report

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Data File : BM014771.D
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Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

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-BM041918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 18.710 | 2620 | 2622 | 2626 | rVV | 212596 | 242675 | 1.29% | 0.115% |
| 36 | 18.757 | 2626 | 2630 | 2636 | rVB2 | 341644 | 504821 | 2.67% | 0.240% |
| 37 | 18.910 | 2649 | 2656 | 2659 | rBV3 | 391407 | 731965 | 3.88% | 0.348% |
| 38 | 19.592 | 2768 | 2772 | 2778 | rBV2 | 105314 | 216961 | 1.15% | 0.103% |
| 39 | 19.862 | 2812 | 2818 | 2823 | rVB | 6370468 | 8793770 | 46.57% | 4.183% |
| 40 | 19.915 | 2823 | 2827 | 2830 | rBV2 | 181339 | 231619 | 1.23% | 0.110% |
| 41 | 20.192 | 2867 | 2874 | 2876 | rBV2 | 4379961 | 7308895 | 38.71% | 3.477% |
| 42 | 20.215 | 2876 | 2878 | 2885 | rVV | 6818214 | 8606811 | 45.58% | 4.094% |
| 43 | 20.274 | 2885 | 2888 | 2893 | rVB | 248673 | 327297 | 1.73% | 0.156% |
| 44 | 20.386 | 2903 | 2907 | 2911 | rBV | 363656 | 463215 | 2.45% | 0.220% |
| 45 | 20.451 | 2914 | 2918 | 2924 | rVB | 536066 | 730129 | 3.87% | 0.347% |
| 46 | 20.521 | 2926 | 2930 | 2936 | rBV3 | 456862 | 961371 | 5.09% | 0.457% |
| 47 | 20.580 | 2936 | 2940 | 2944 | rBV | 231843 | 291461 | 1.54% | 0.139% |
| 48 | 20.692 | 2946 | 2959 | 2963 | rBV2 | 1645739 | 3641805 | 19.29% | 1.732% |
| 49 | 20.786 | 2971 | 2975 | 2979 | rBV | 1188903 | 1523625 | 8.07% | 0.725% |
| 50 | 20.851 | 2983 | 2986 | 2989 | rVV | 594474 | 718213 | 3.80% | 0.342% |
| 51 | 20.880 | 2989 | 2991 | 2995 | rVB | 242833 | 242427 | 1.28% | 0.115% |
| 52 | 20.986 | 3005 | 3009 | 3012 | rBV | 714400 | 939493 | 4.98% | 0.447% |
| 53 | 21.027 | 3013 | 3016 | 3023 | rVB | 699019 | 955544 | 5.06% | 0.455% |
| 54 | 21.421 | 3080 | 3083 | 3088 | rVB3 | 416793 | 569317 | 3.02% | 0.271% |
| 55 | 21.592 | 3107 | 3112 | 3114 | rBV2 | 1191789 | 1669188 | 8.84% | 0.794% |
| 56 | 21.621 | 3114 | 3117 | 3120 | rVB | 780538 | 950731 | 5.04% | 0.452% |
| 57 | 21.668 | 3120 | 3125 | 3128 | rBV2 | 1178654 | 1730386 | 9.16% | 0.823% |
| 58 | 21.927 | 3164 | 3169 | 3175 | rBV2 | 7772575 | 14539867 | 77.01% | 6.916% |
| 59 | 21.980 | 3175 | 3178 | 3183 | rVB | 6291353 | 8381534 | 44.39% | 3.987% |
| 60 | 22.109 | 3197 | 3200 | 3207 | rVB | 1097729 | 1555903 | 8.24% | 0.740% |
| 61 | 22.221 | 3216 | 3219 | 3223 | rVB | 831920 | 1087815 | 5.76% | 0.517% |
| 62 | 22.274 | 3224 | 3228 | 3234 | rBV | 1417752 | 2288516 | 12.12% | 1.089% |
| 63 | 22.533 | 3270 | 3272 | 3278 | rVB | 1082506 | 1411660 | 7.48% | 0.671% |
| 64 | 22.756 | 3307 | 3310 | 3314 | rBV3 | 541421 | 915903 | 4.85% | 0.436% |
| 65 | 23.686 | 3460 | 3468 | 3473 | rBV | 7283664 | 18881315 | 100.00% | 8.981% |
| 66 | 23.874 | 3495 | 3500 | 3505 | rVB | 1005777 | 1718316 | 9.10% | 0.817% |
| 67 | 24.227 | 3554 | 3560 | 3565 | rBV | 4522615 | 9314097 | 49.33% | 4.430% |
| 68 | 24.286 | 3566 | 3570 | 3573 | rVV2 | 2503172 | 5025671 | 26.62% | 2.390% |
| 69 | 24.339 | 3573 | 3579 | 3590 | rVV | 8172851 | 18605124 | 98.54% | 8.850% |
| 70 | 24.444 | 3593 | 3597 | 3601 | rVV | 1883659 | 3822067 | 20.24% | 1.818% |
| 71 | 24.497 | 3602 | 3606 | 3614 | rVB2 | 2185249 | 4694343 | 24.86% | 2.233% |

LSC Area Percent Report

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Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

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-BM041918.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 27.044 | 4030 | 4039 | 4050 | rVB | 4107631 | 13169133 | 69.75% | 6.264% |
| 73 | 27.850 | 4167 | 4176 | 4195 | rVB | 3209612 | 11507654 | 60.95% | 5.474% |

Sum of corrected areas: 210236541

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
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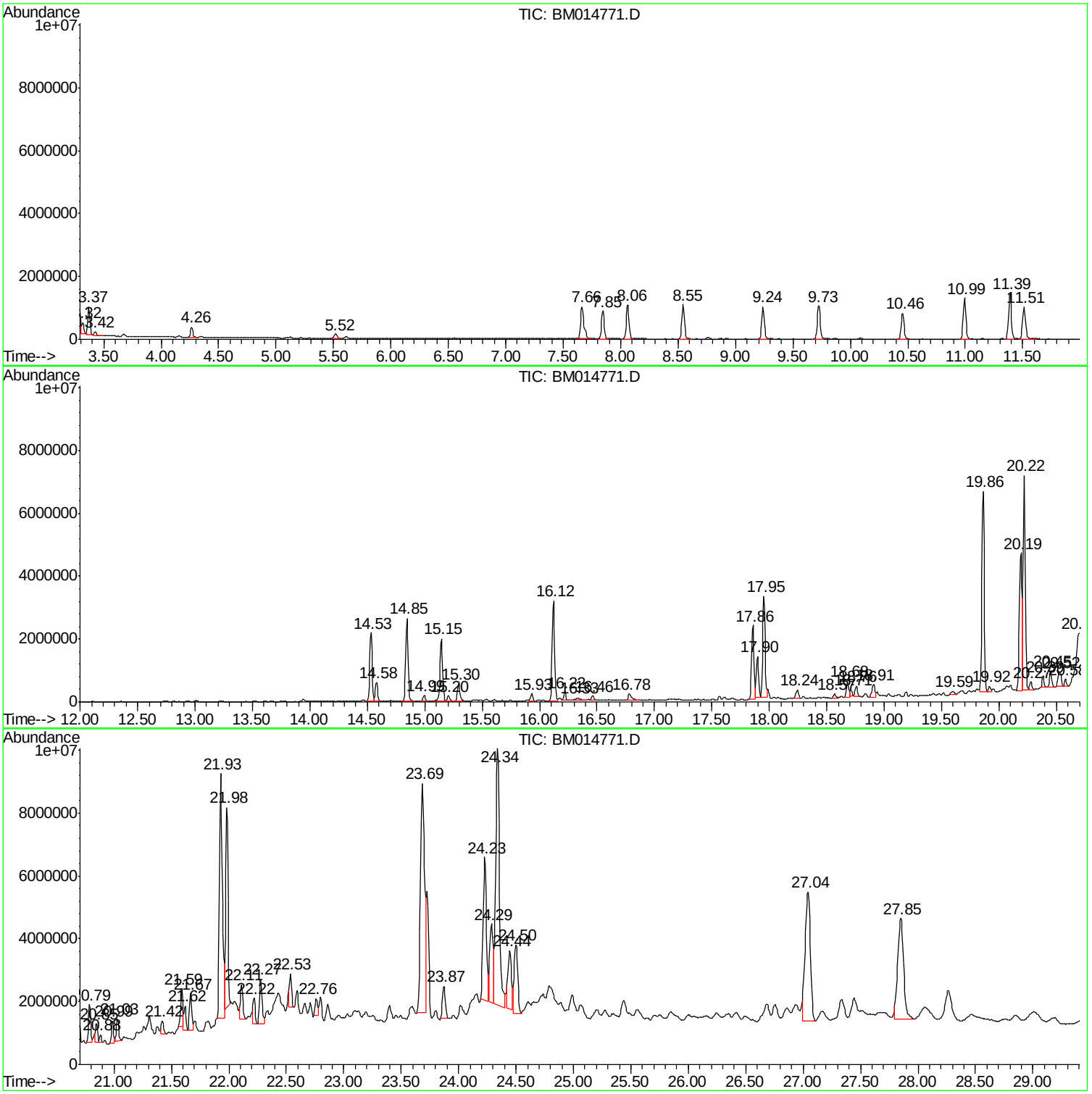
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.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\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

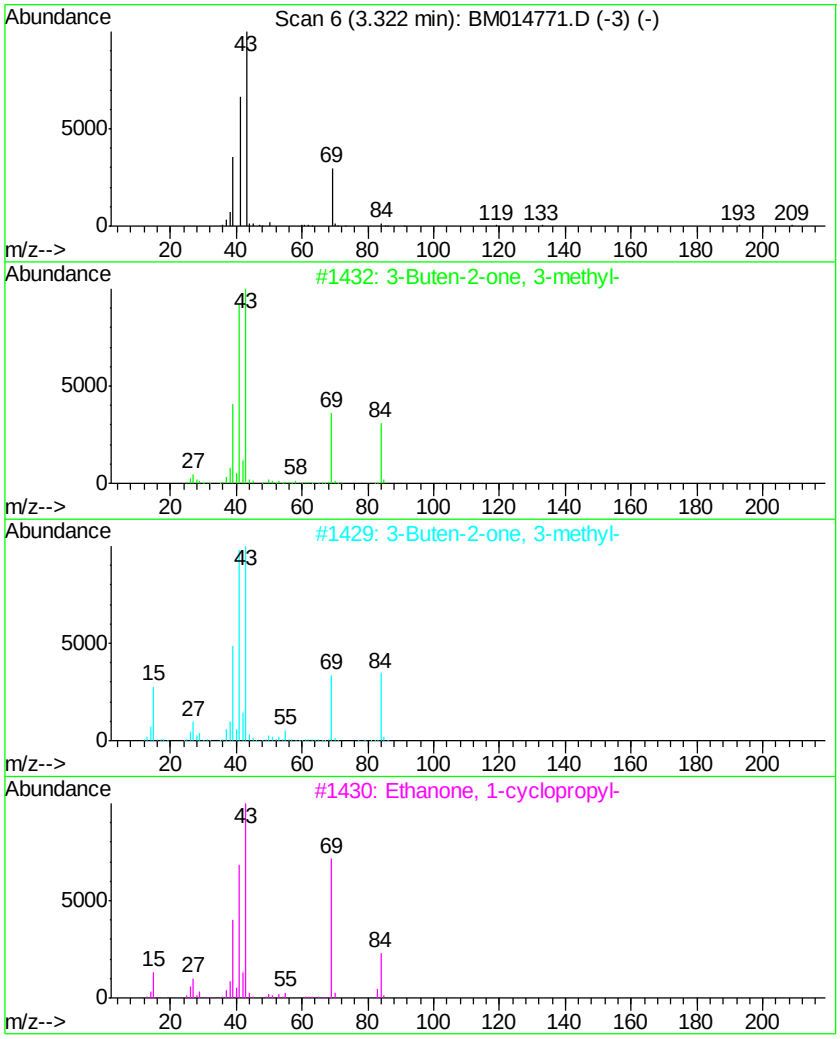
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

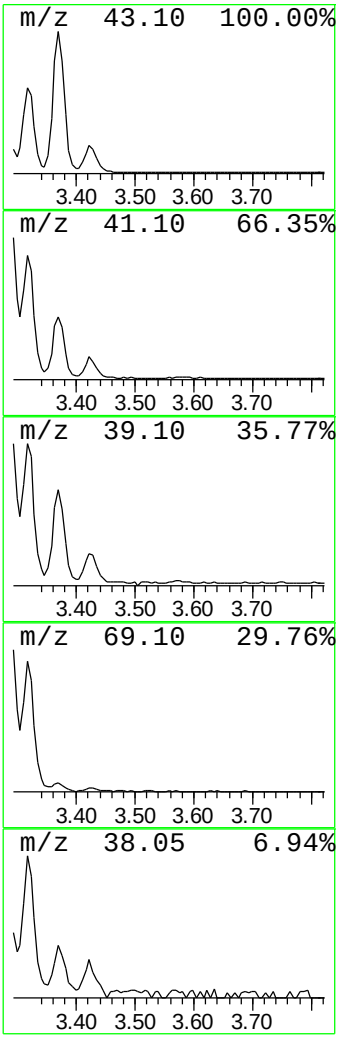
**********

Peak Number 1 3-Buten-2-one, 3-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.32 | 4.64 ng/ul | 427170 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Buten-2-one, 3-methyl- | 84 | C5H8O | 000814-78-8 | 80 |
| 2 | 3-Buten-2-one, 3-methyl- | 84 | C5H8O | 000814-78-8 | 38 |
| 3 | Ethanone, 1-cyclopropyl- | 84 | C5H8O | 000765-43-5 | 36 |
| 4 | trans-Crotonamide | 85 | C4H7NO | 000625-37-6 | 25 |
| 5 | Furan, 2,3-dihydro- | 70 | C4H6O | 001191-99-7 | 17 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

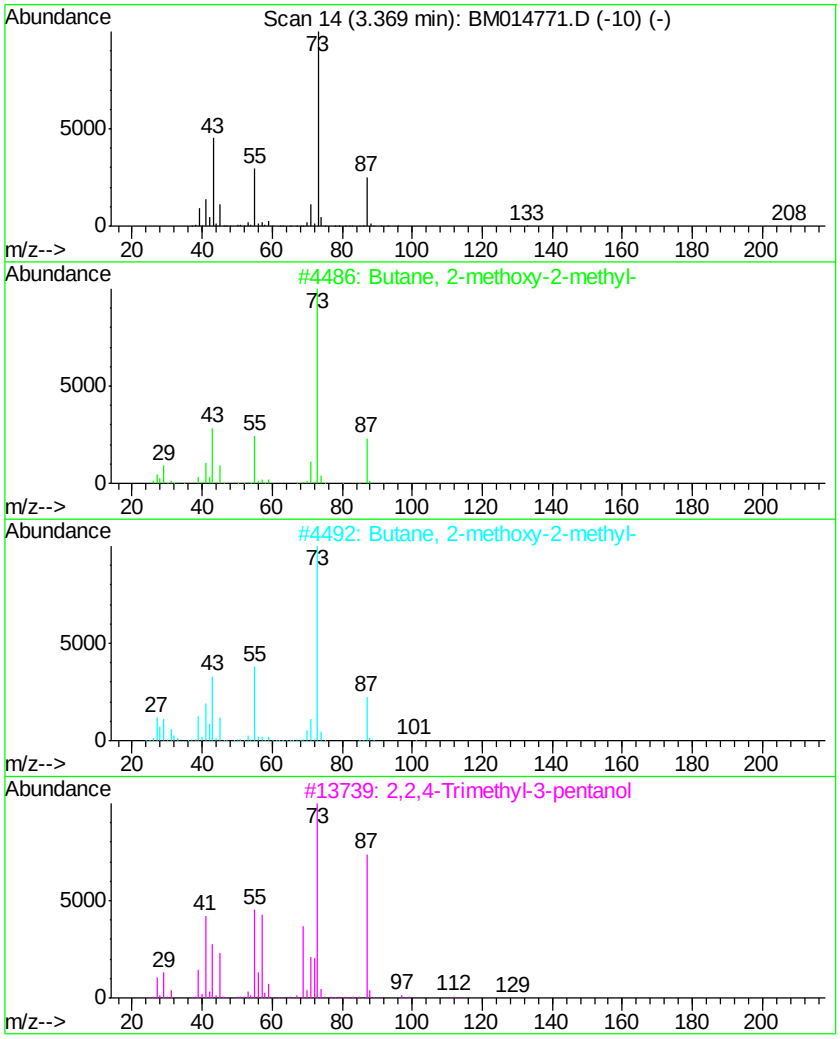
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

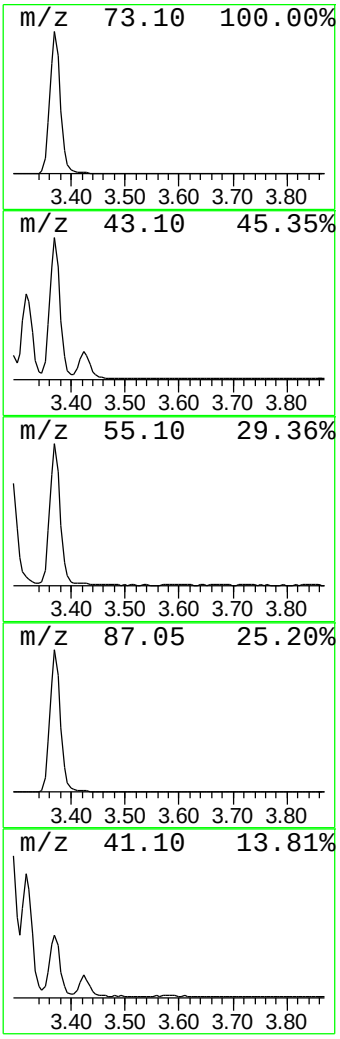
**********

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.37 | 12.75 ng/ul | 1172920 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 4 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 5 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 37 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
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Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

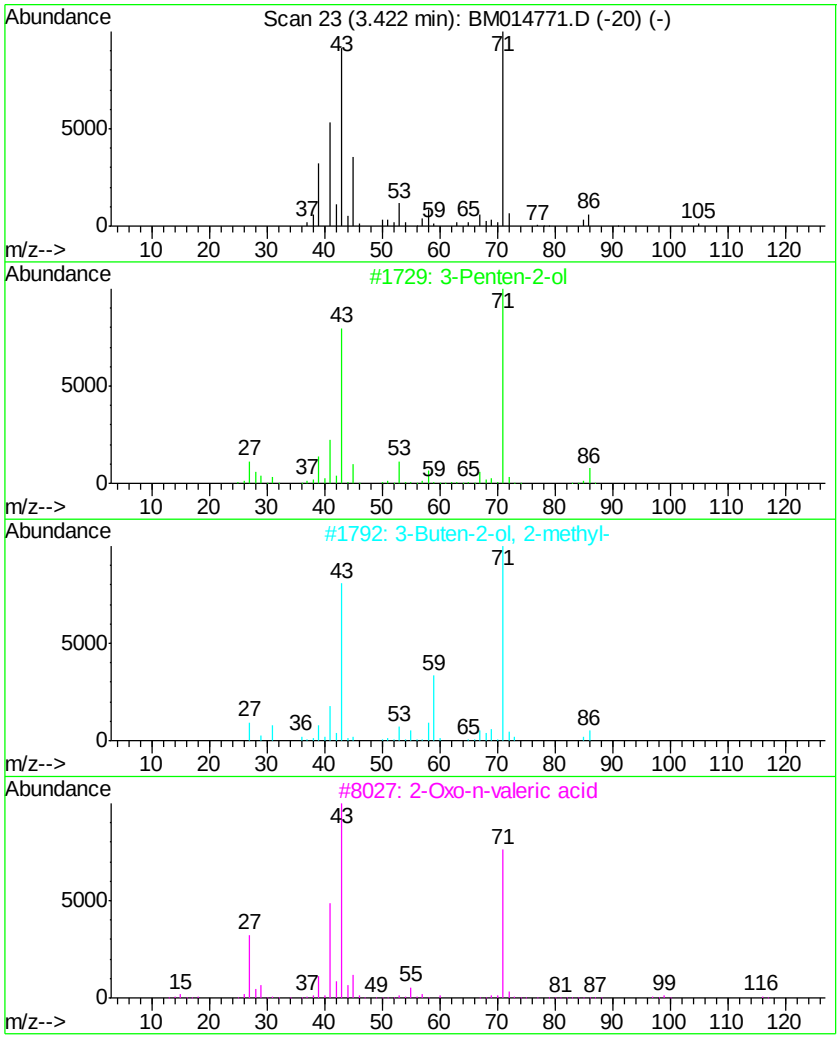
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

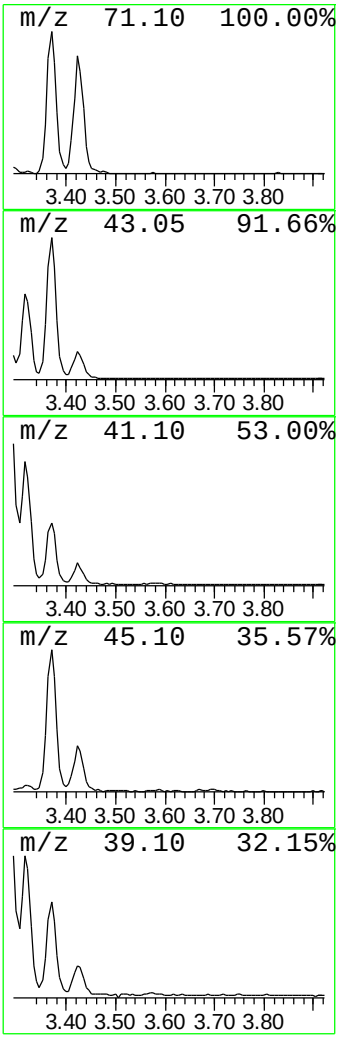
**********

Peak Number 3 3-Penten-2-ol Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.42 | 2.17 ng/ul | 199679 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Penten-2-ol | 86 | C5H10O | 001569-50-2 | 72 |
| 2 | 3-Buten-2-ol, 2-methyl- | 86 | C5H10O | 000115-18-4 | 64 |
| 3 | 2-Oxo-n-valeric acid | 116 | C5H8O3 | 001821-02-9 | 64 |
| 4 | 3-Buten-2-ol, 2-methyl- | 86 | C5H10O | 000115-18-4 | 64 |
| 5 | Butane, 2-bromo-2-methyl- | 150 | C5H11Br | 000507-36-8 | 59 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
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Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

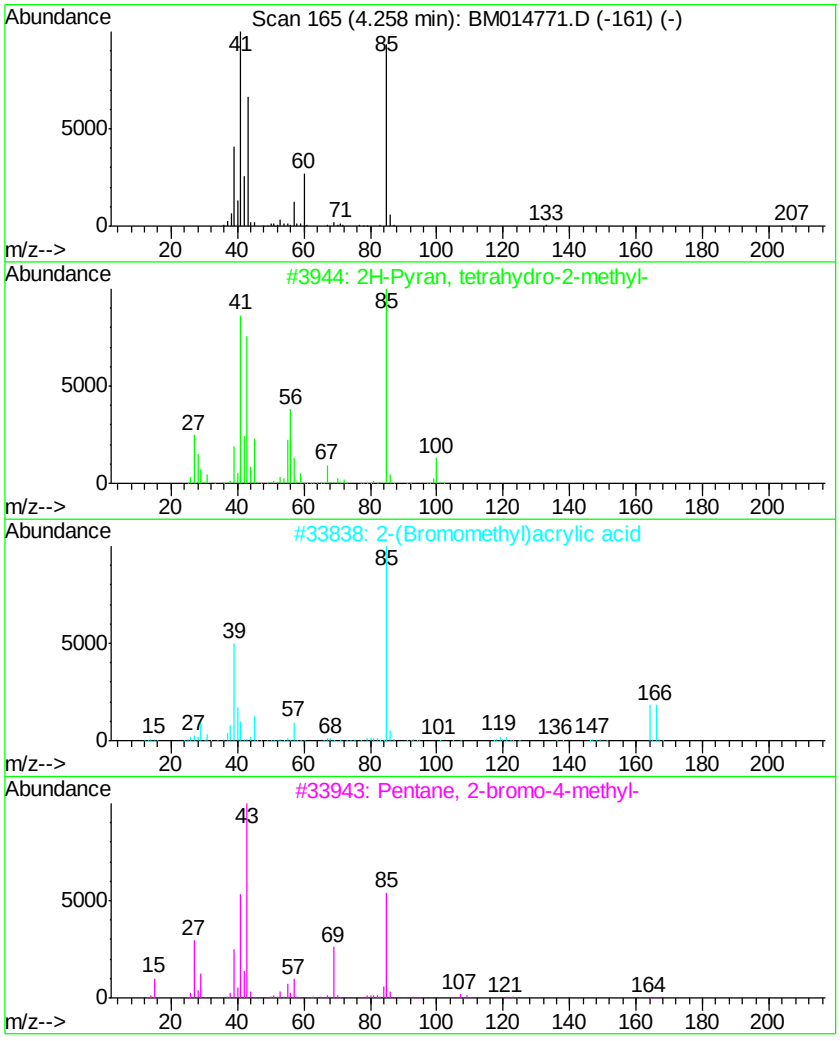
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

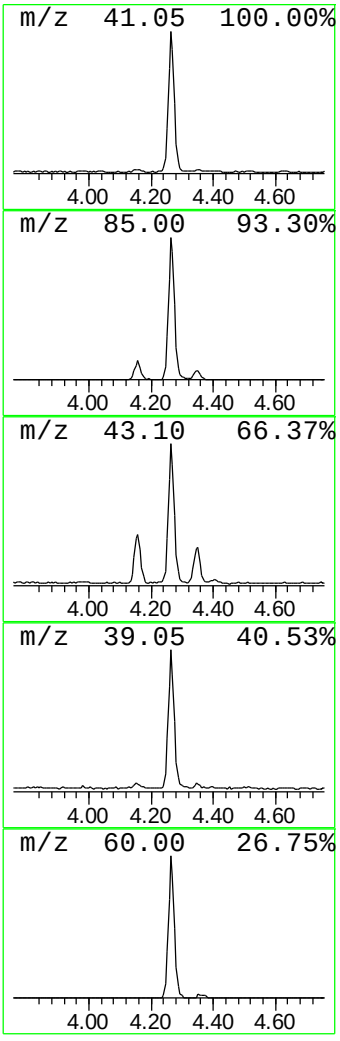
**********

Peak Number 4 unknown-01 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.26 | 4.92 ng/ul | 452733 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Pyran, tetrahydro-2-methyl- | 100 | C6H12O | 010141-72-7 | 42 |
| 2 | 2-(Bromomethyl)acrylic acid | 164 | C4H5BrO2 | 072707-66-5 | 33 |
| 3 | Pentane, 2-bromo-4-methyl- | 164 | C6H13Br | 030310-22-6 | 33 |
| 4 | 2H-Pyran, tetrahydro-2-methyl- | 100 | C6H12O | 010141-72-7 | 33 |
| 5 | Methacrylamide | 85 | C4H7NO | 000079-39-0 | 28 |



# Library Search Compound Report

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Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

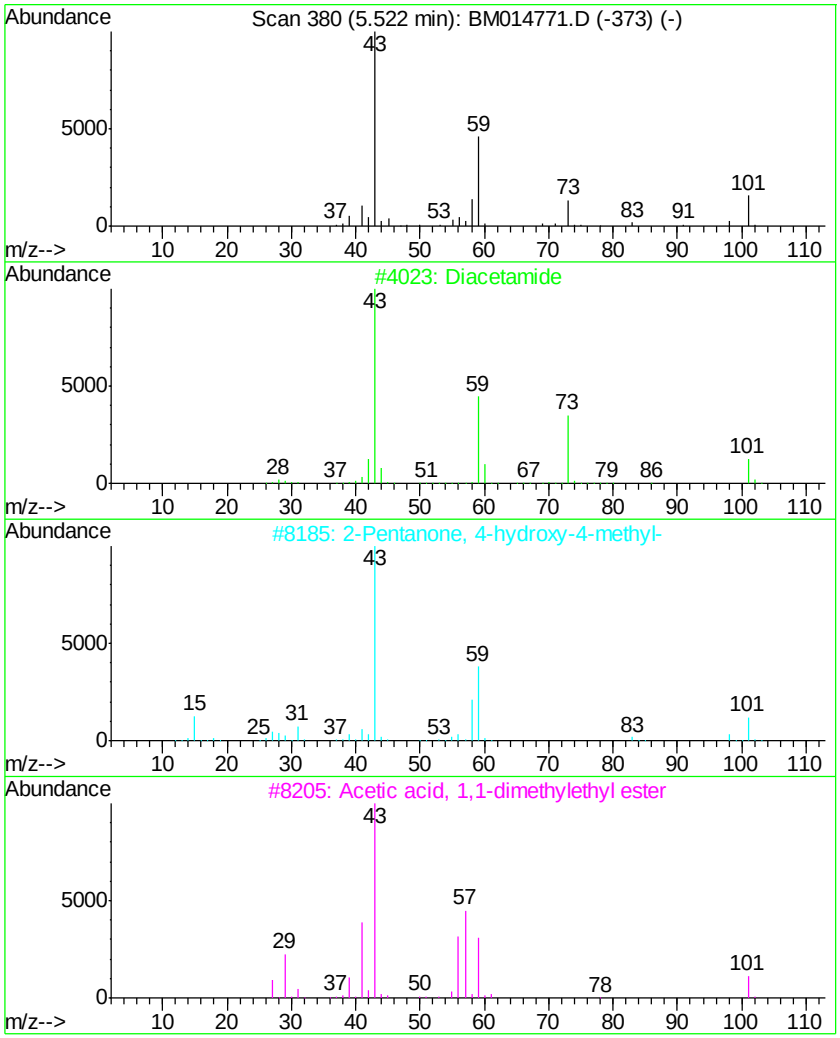
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

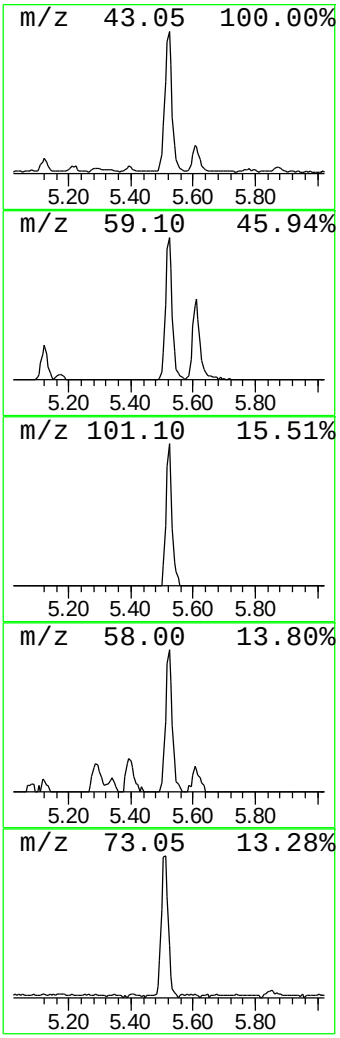
**********

Peak Number 5 Diacetamide Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.52 | 2.74 ng/ul | 252487 | 1,4-Dichlorobenzene-d4 | 8.55 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Diacetamide | 101 | C4H7NO2 | 000625-77-4 | 59 |
| 2 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 42 |
| 3 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 40 |
| 4 | 2-Butanol, 2-methyl-, acetate | 130 | C7H14O2 | 000625-16-1 | 38 |
| 5 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 36 |



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Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

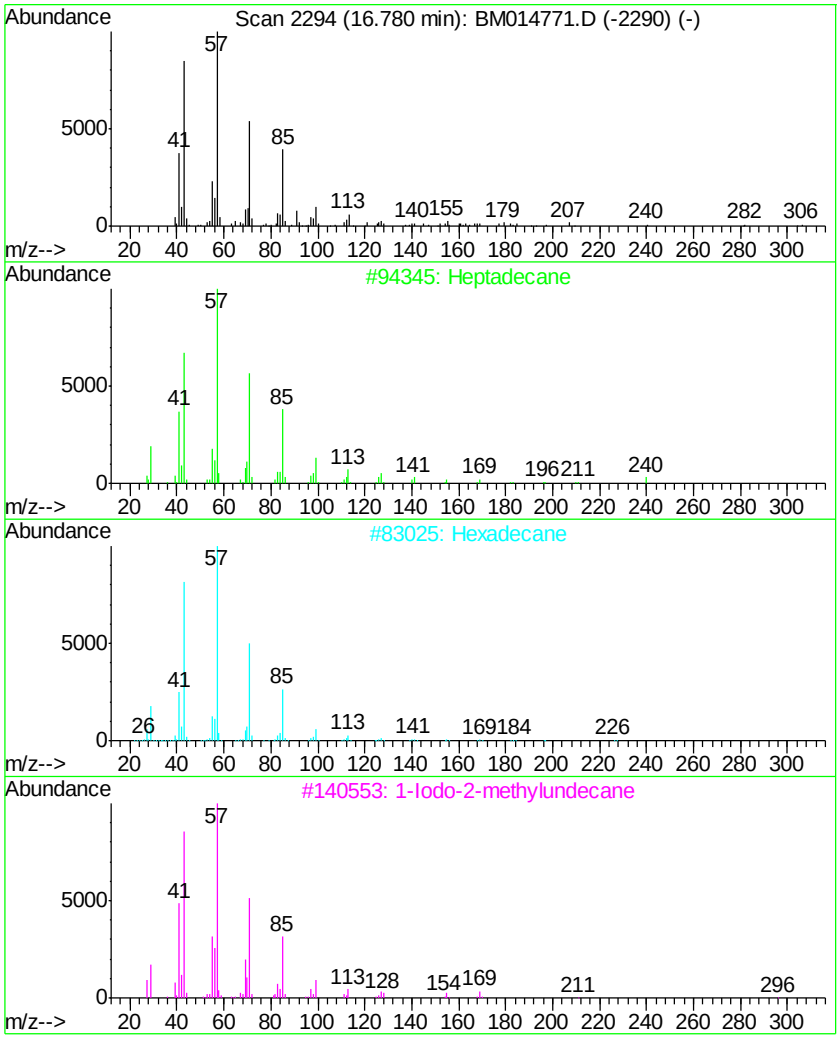
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

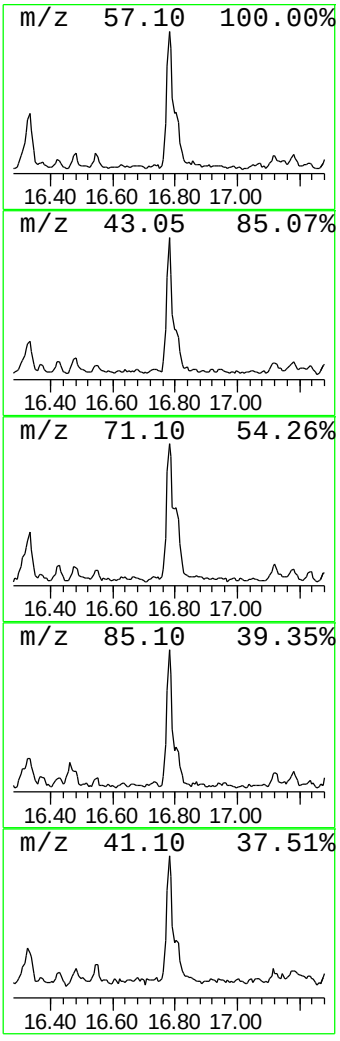
**********

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.78 | 2.48 ng/ul | 436808 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 94 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 91 |
| 3 | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 90 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 90 |
| 5 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 90 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

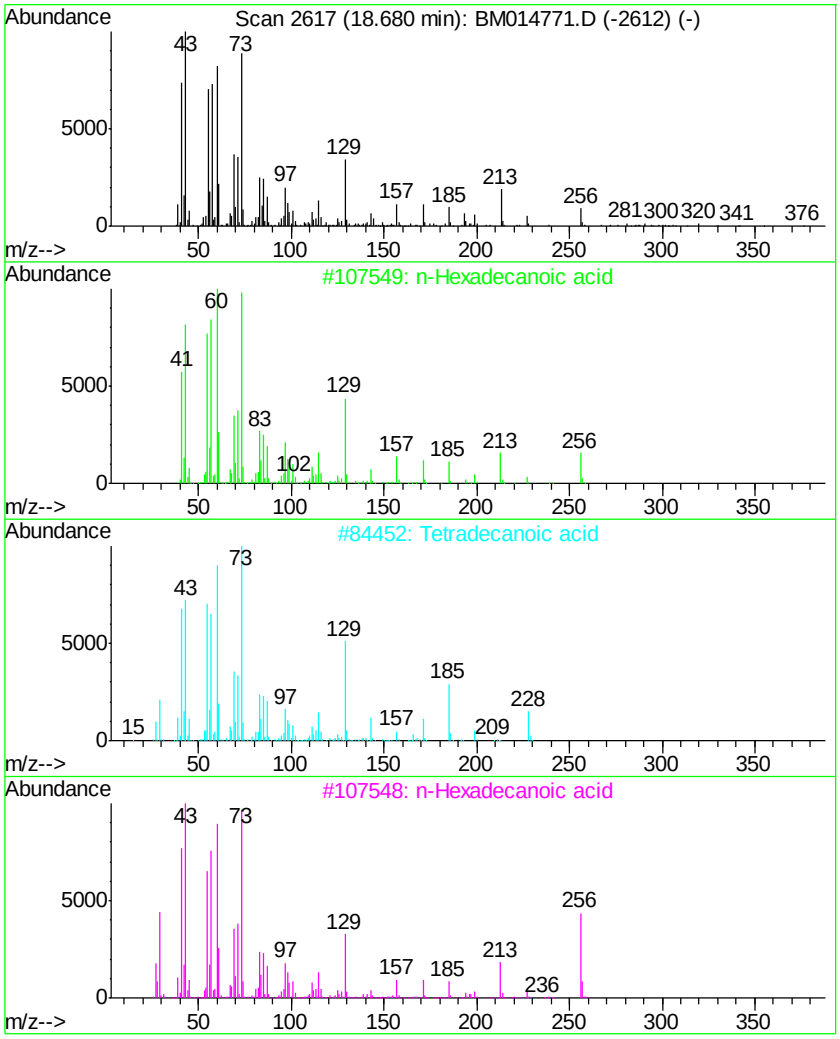
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

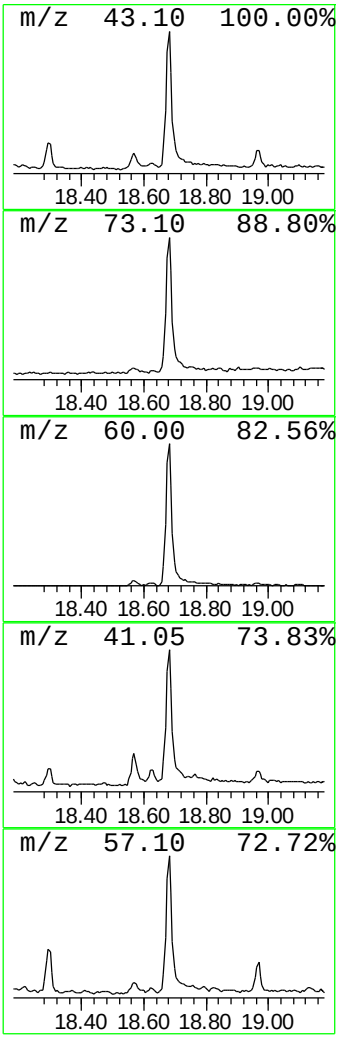
**********

Peak Number 7 n-Hexadecanoic acid Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.68 | 4.05 ng/ul | 713973 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 97 |
| 3 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 95 |
| 5 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

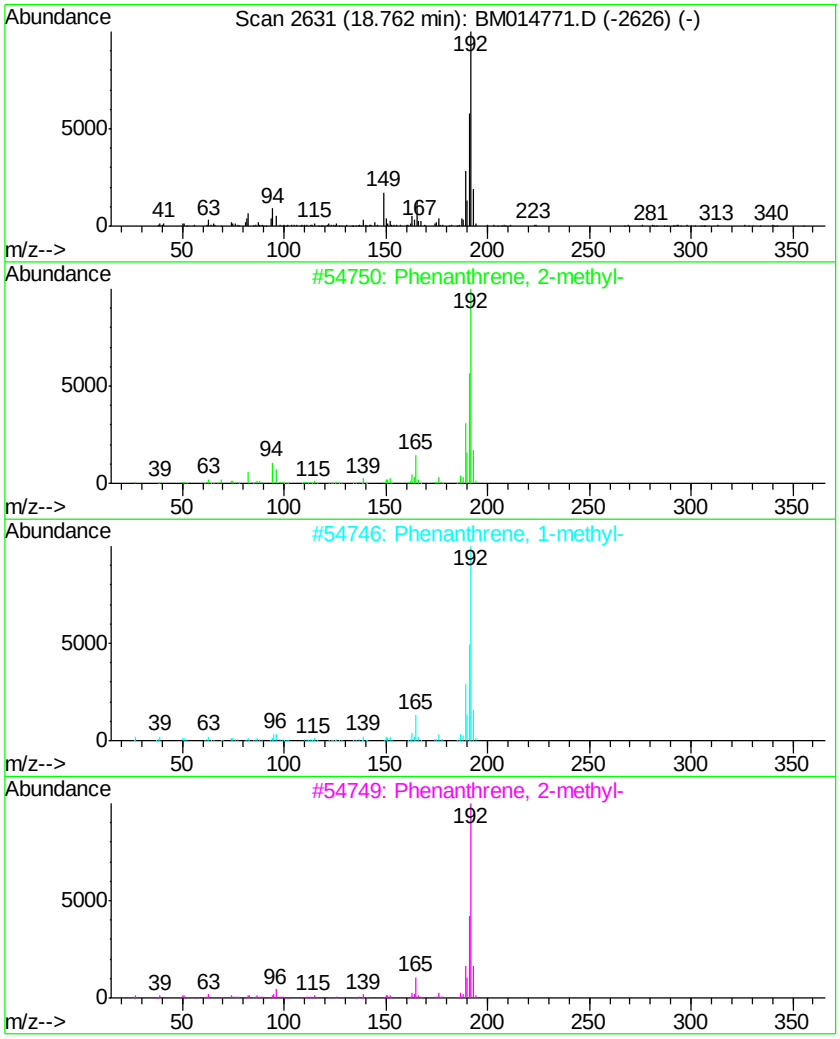
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

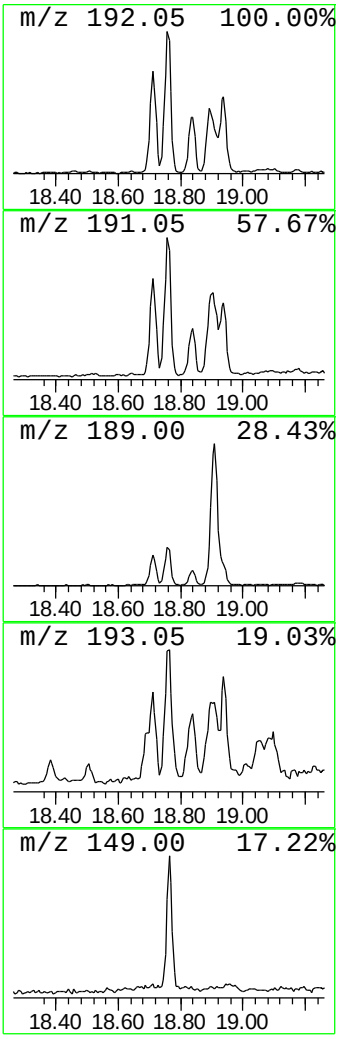
**********

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.76 | 2.86 ng/ul | 504821 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

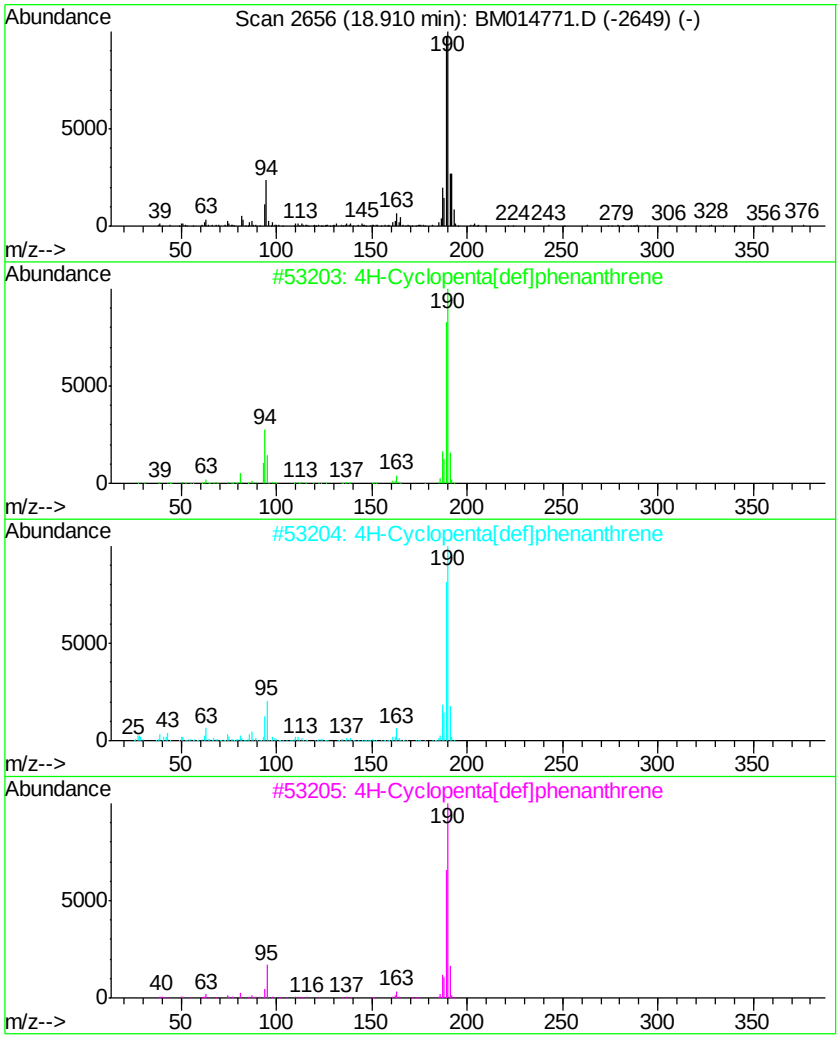
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

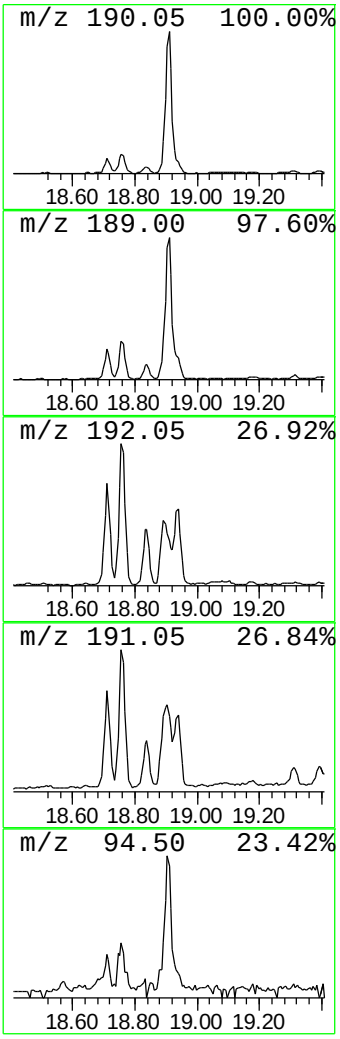
**********

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.91 | 4.15 ng/ul | 731965 | Phenanthrene-d10 | 17.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 76 |
| 3 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 58 |
| 5 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 45 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

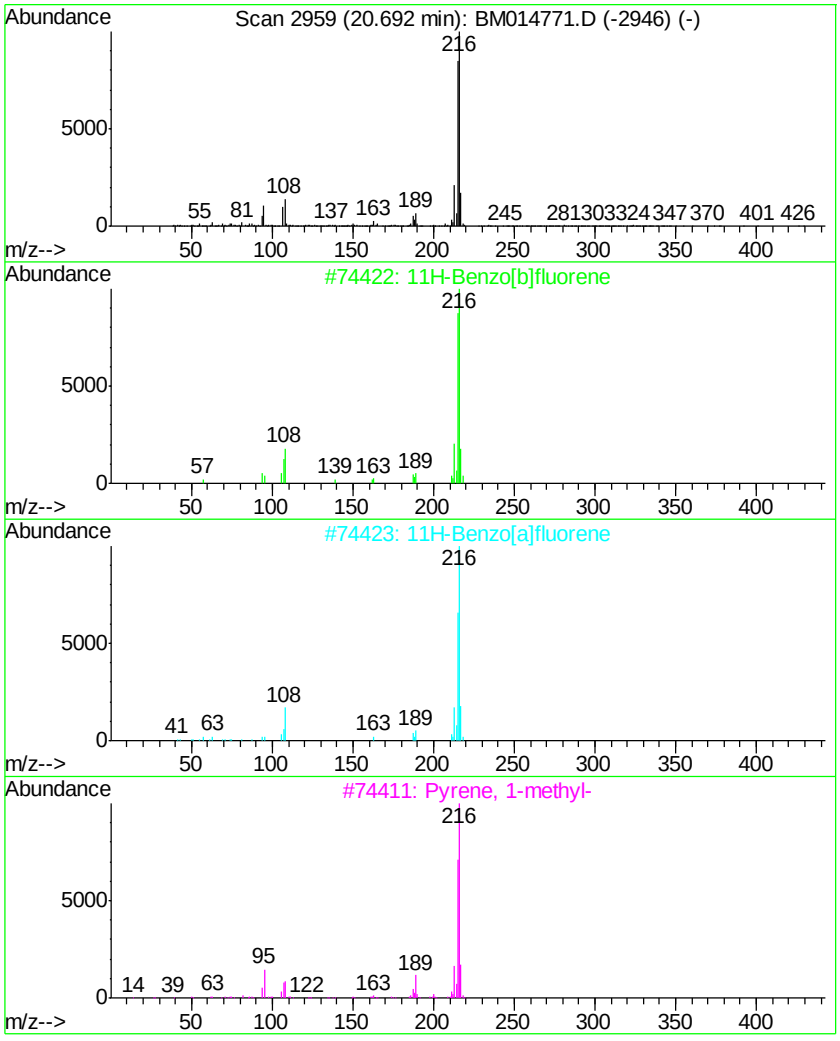
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

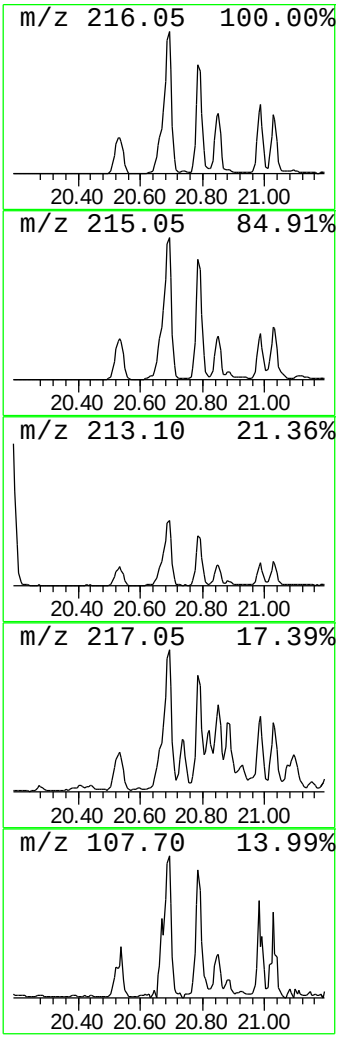
**********

Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.69 | 5.01 ng/ul | 3641810 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 93 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

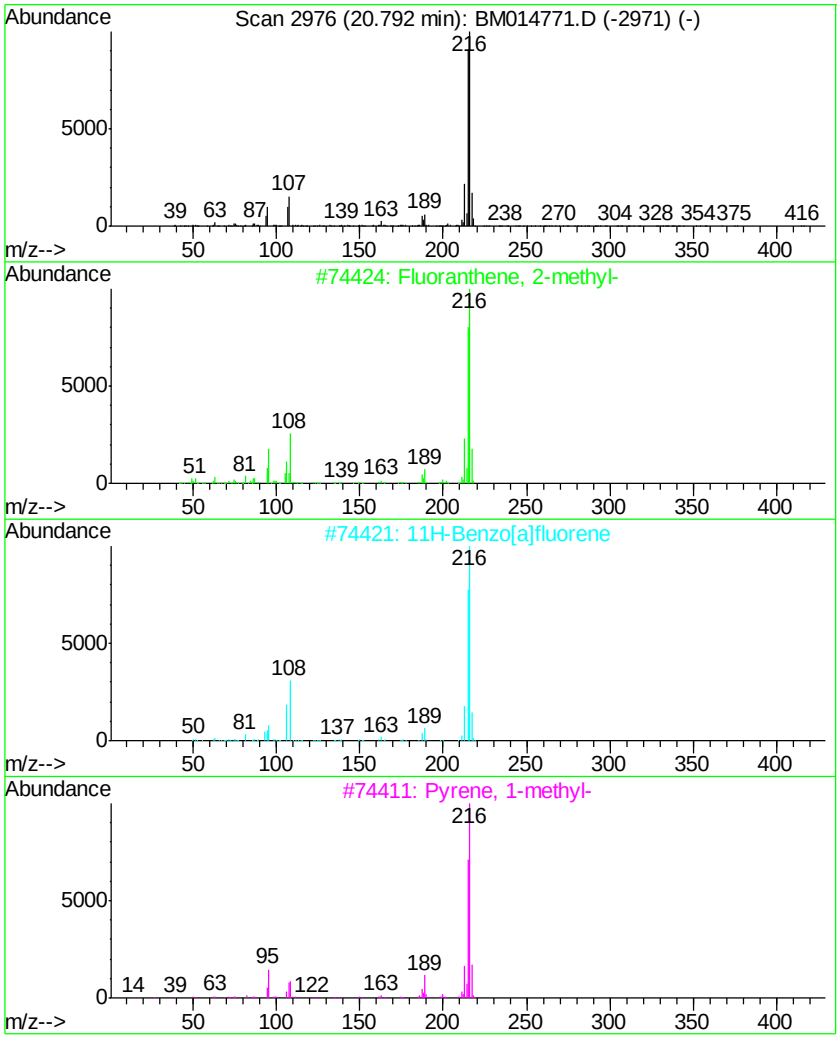
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

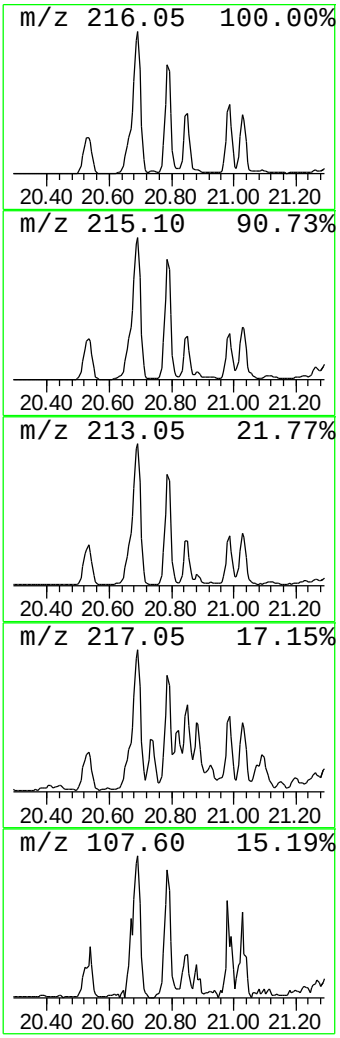
**********

Peak Number 11 Fluoranthene, 2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.79 | 2.10 ng/ul | 1523630 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 95 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

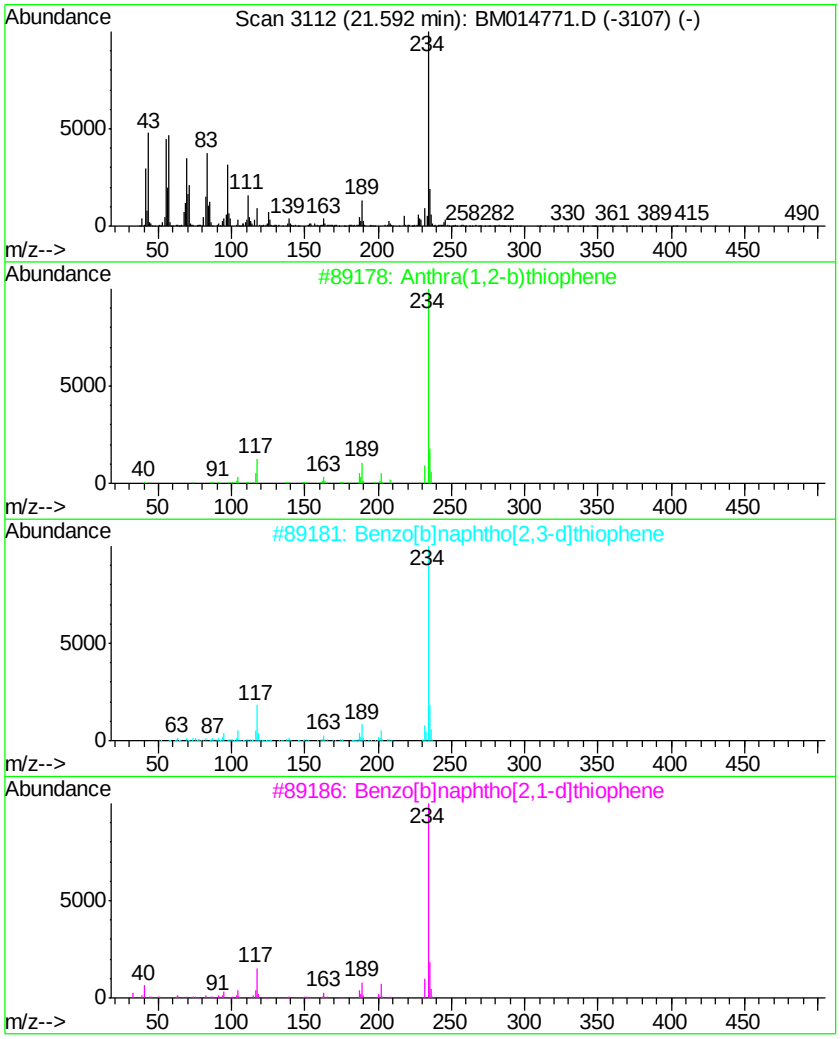
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

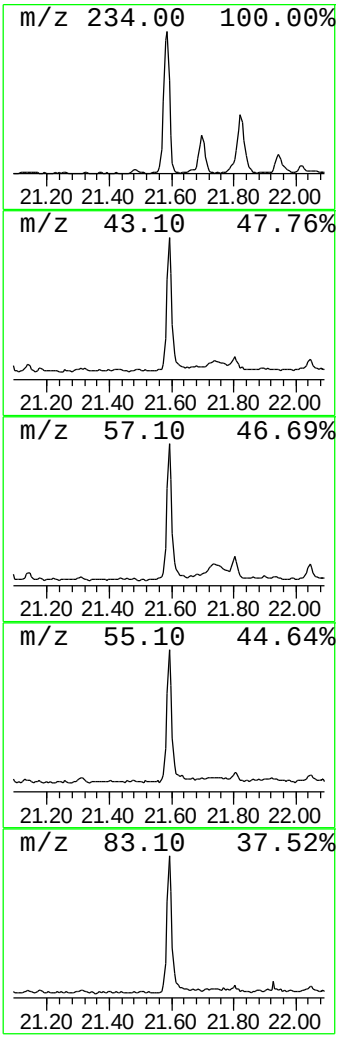
**********

Peak Number 12 Anthra(1,2-b)thiophene Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.59 | 2.30 ng/ul | 1669190 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 86 |
| 2 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 70 |
| 3 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 70 |
| 4 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 70 |
| 5 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 70 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

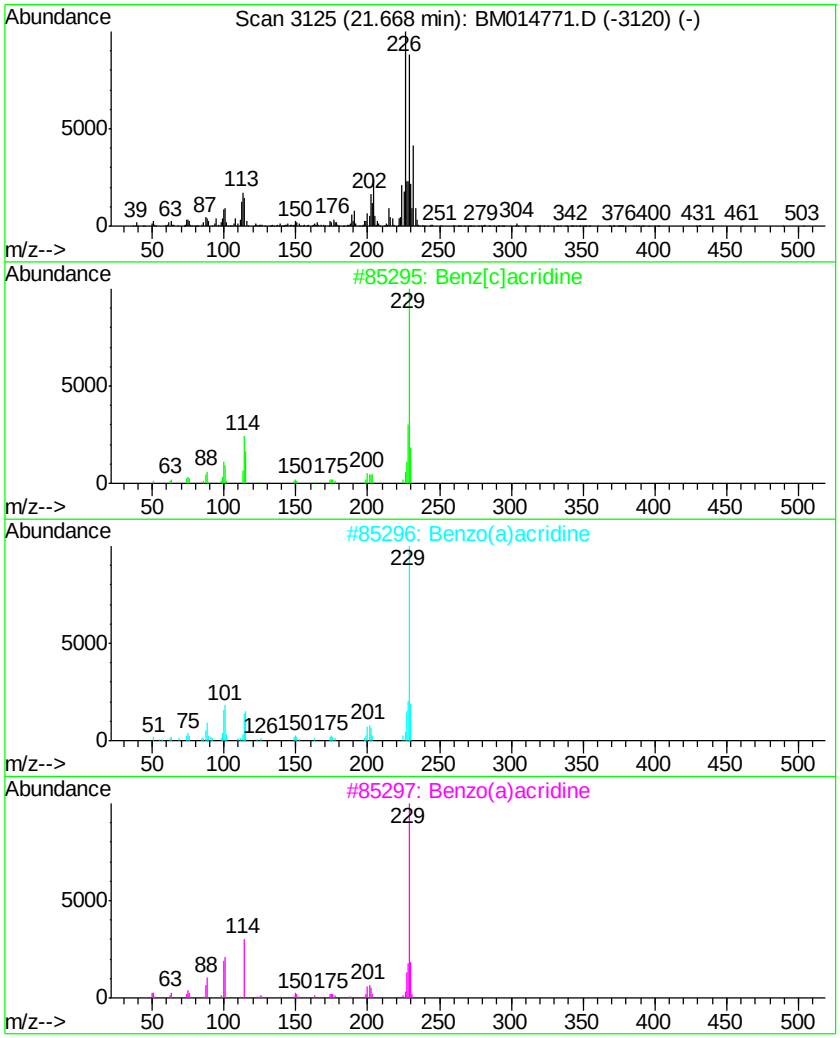
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

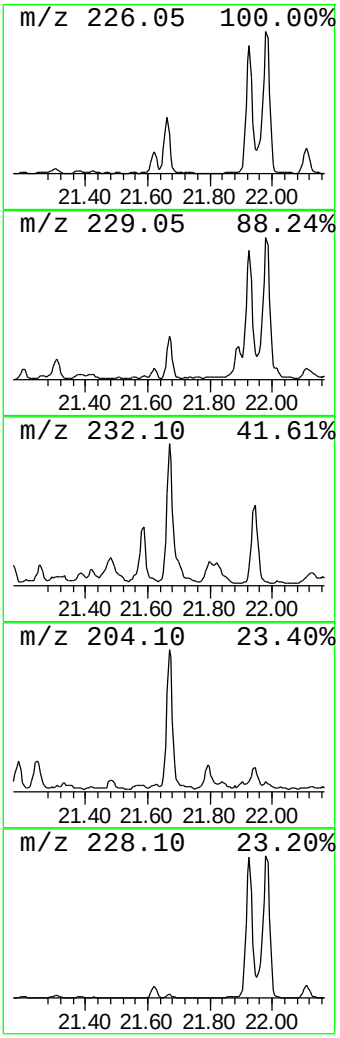
**********

Peak Number 13 unknown-02 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.67 | 2.38 ng/ul | 1730390 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[c]acridine | 229 | C17H11N | 000225-51-4 | 42 |
| 2 | Benzo(a)acridine | 229 | C17H11N | 000225-11-6 | 27 |
| 3 | Benzo(a)acridine | 229 | C17H11N | 000225-11-6 | 22 |
| 4 | Ferrocene, [(hydroxyimino)methyl... | 229 | C11H11FeNO | 032679-07-5 | 22 |
| 5 | Naphtho(2,3-h)quinoline | 229 | C17H11N | 000084-56-0 | 22 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

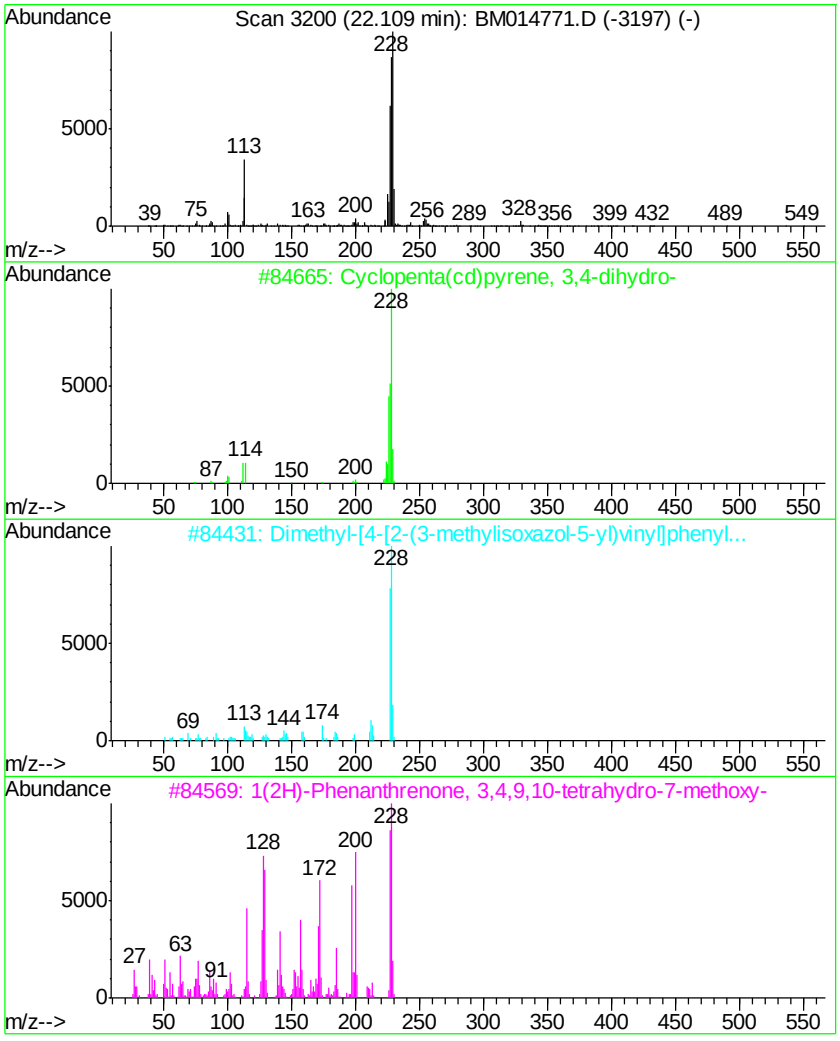
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

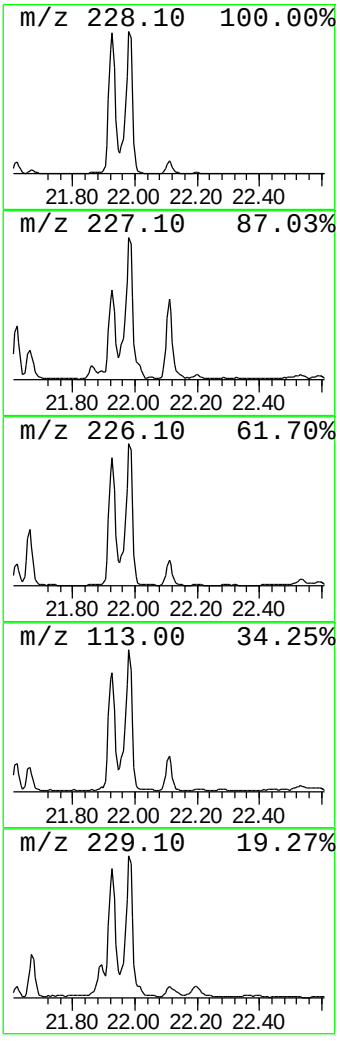
**********

Peak Number 14 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.11 | 2.14 ng/ul | 1555900 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 55 |
| 2 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 50 |
| 3 | 1(2H)-Phenanthrenone, 3,4,9,10-t... | 228 | C15H16O2 | 014427-61-3 | 50 |
| 4 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 49 |
| 5 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 47 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

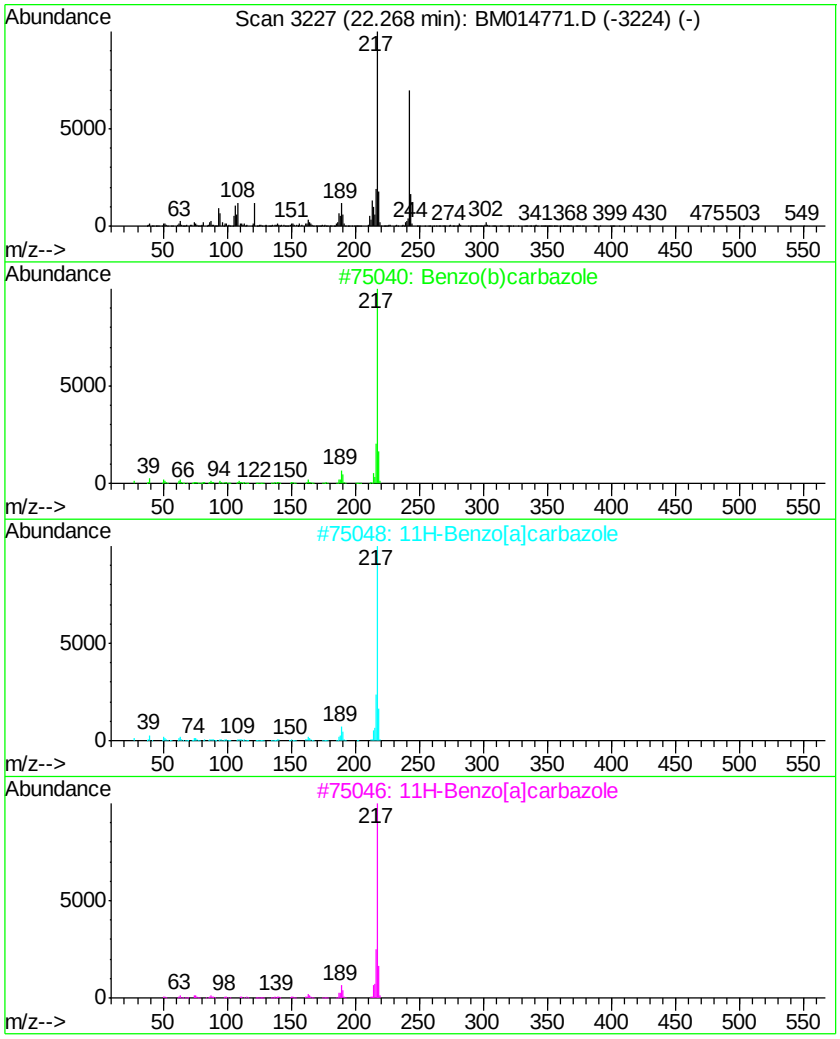
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

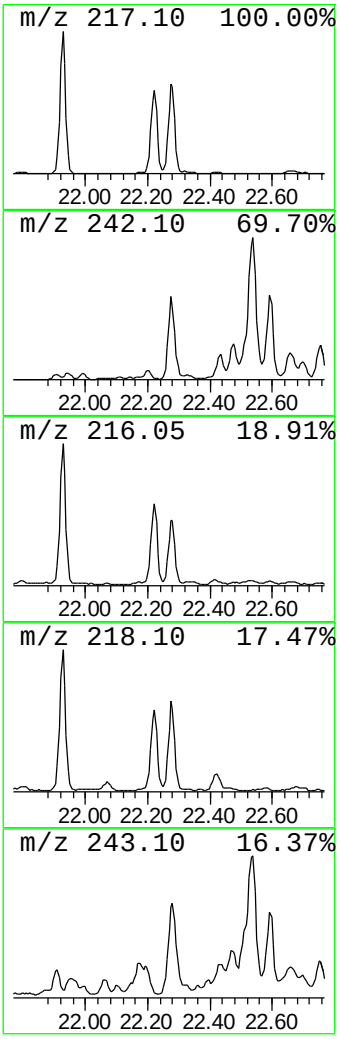
**********

Peak Number 15 Benzo(b)carbazole Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.27 | 3.15 ng/ul | 2288520 | Chrysene-d12 | 21.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo(b)carbazole | 217 | C16H11N | 000243-28-7 | 90 |
| 2 | 11H-Benzo[a]carbazole | 217 | C16H11N | 000239-01-0 | 78 |
| 3 | 11H-Benzo[a]carbazole | 217 | C16H11N | 000239-01-0 | 64 |
| 4 | Benzo(c)carbazole | 217 | C16H11N | 034777-33-8 | 60 |
| 5 | 7H-Benzo[c]carbazole | 217 | C16H11N | 000205-25-4 | 60 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.M
Quant Title : SVOA CALIBRATION

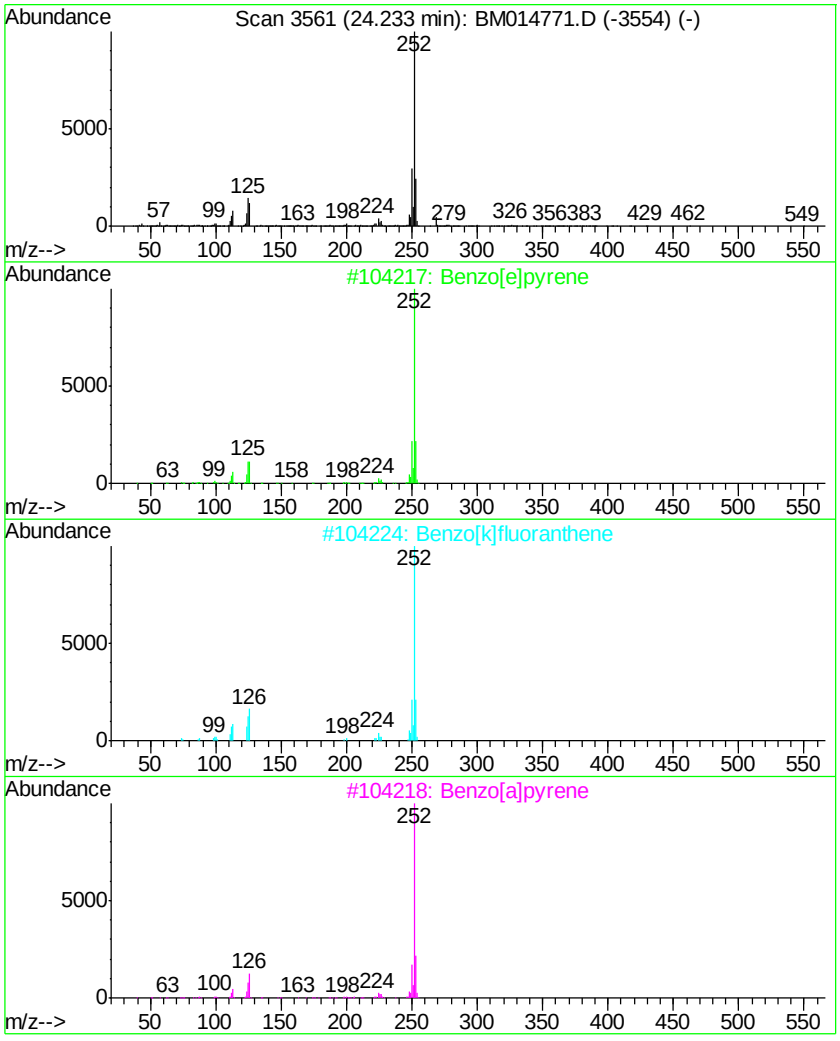
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

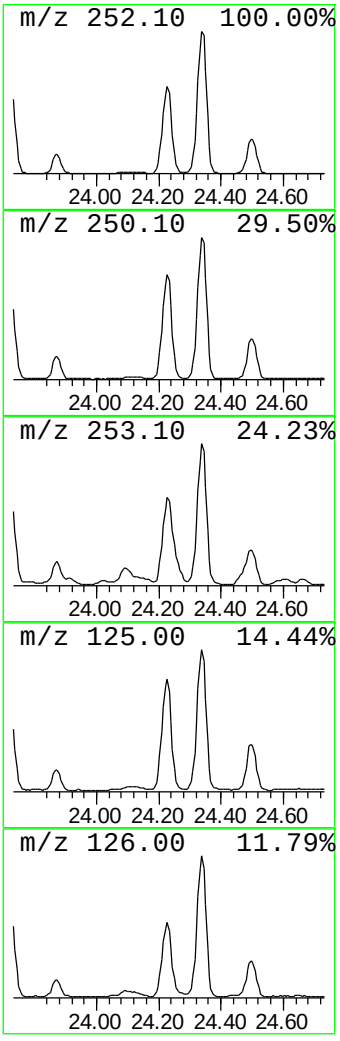
**********

Peak Number 17 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.23 | 48.74 ng/ul | 9314100 | Perylene-d12 | 24.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 98 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 98 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 97 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 96 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM042018\
Data File : BM014771.D
Acq On : 20 Apr 2018 19:54
Operator : SJ/JU
Sample : J2434-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0AC7

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM041918.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 |
| 3-Buten-2-one, 3-... | 3.32 | 4.6 | ng/ul | 427170 | 1 | 8.55 | 1840360 | 20.0 |
| Butane, 2-methoxy... | 3.37 | 12.8 | ng/ul | 1172920 | 1 | 8.55 | 1840360 | 20.0 |
| 3-Penten-2-ol | 3.42 | 2.2 | ng/ul | 199679 | 1 | 8.55 | 1840360 | 20.0 |
| unknown-01 | 4.26 | 4.9 | ng/ul | 452733 | 1 | 8.55 | 1840360 | 20.0 |
| Diacetamide | 5.52 | 2.7 | ng/ul | 252487 | 1 | 8.55 | 1840360 | 20.0 |
| (DEL) Alkane: Str... | 16.78 | 2.5 | ng/ul | 436808 | 4 | 17.86 | 3525850 | 20.0 |
| n-Hexadecanoic acid | 18.68 | 4.0 | ng/ul | 713973 | 4 | 17.86 | 3525850 | 20.0 |
| Phenanthrene, 2-m... | 18.76 | 2.9 | ng/ul | 504821 | 4 | 17.86 | 3525850 | 20.0 |
| 4H-Cyclopenta[def... | 18.91 | 4.2 | ng/ul | 731965 | 4 | 17.86 | 3525850 | 20.0 |
| 11H-Benzo[b]fluorene | 20.69 | 5.0 | ng/ul | 3641810 | 5 | 21.94 | 14539900 | 20.0 |
| Fluoranthene, 2-m... | 20.79 | 2.1 | ng/ul | 1523630 | 5 | 21.94 | 14539900 | 20.0 |
| Anthra(1,2-b)thio... | 21.59 | 2.3 | ng/ul | 1669190 | 5 | 21.94 | 14539900 | 20.0 |
| unknown-02 | 21.67 | 2.4 | ng/ul | 1730390 | 5 | 21.94 | 14539900 | 20.0 |
| Cyclopenta(cd)pyr... | 22.11 | 2.1 | ng/ul | 1555900 | 5 | 21.94 | 14539900 | 20.0 |
| Benzo(b)carbazole | 22.27 | 3.1 | ng/ul | 2288520 | 5 | 21.94 | 14539900 | 20.0 |
| Benzo[e]pyrene | 24.23 | 48.7 | ng/ul | 9314100 | 6 | 24.44 | 3822070 | 20.0 |