LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.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 | 6.898 | 660 | 665 | 673 | rBV | 265262 | 448047 | 22.53% | 1.159% |
| 2 | 7.075 | 689 | 695 | 704 | rBV | 215144 | 352029 | 17.70% | 0.911% |
| 3 | 7.263 | 721 | 727 | 735 | rBV | 308949 | 491963 | 24.74% | 1.273% |
| 4 | 7.734 | 801 | 807 | 821 | rVB | 363448 | 610247 | 30.68% | 1.579% |
| 5 | 8.434 | 921 | 926 | 943 | rVB | 311121 | 546488 | 27.48% | 1.414% |
| 6 | 8.898 | 999 | 1005 | 1019 | rBV | 245534 | 440691 | 22.16% | 1.140% |
| 7 | 9.616 | 1121 | 1127 | 1135 | rBV | 194687 | 335936 | 16.89% | 0.869% |
| 8 | 10.145 | 1211 | 1217 | 1229 | rBV | 319650 | 580651 | 29.20% | 1.503% |
| 9 | 10.522 | 1274 | 1281 | 1289 | rBV | 442156 | 744745 | 37.45% | 1.927% |
| 10 | 10.675 | 1301 | 1307 | 1322 | rBV | 201691 | 418575 | 21.05% | 1.083% |
| 11 | 12.127 | 1548 | 1554 | 1558 | rVB4 | 3112 | 5233 | 0.26% | 0.014% |
| 12 | 13.357 | 1760 | 1763 | 1768 | rVB2 | 1934 | 3037 | 0.15% | 0.008% |
| 13 | 13.792 | 1831 | 1837 | 1842 | rBV | 542954 | 782431 | 39.34% | 2.025% |
| 14 | 13.839 | 1842 | 1845 | 1854 | rVB | 210197 | 279300 | 14.04% | 0.723% |
| 15 | 14.080 | 1879 | 1886 | 1895 | rBV | 643221 | 952889 | 47.91% | 2.466% |
| 16 | 14.257 | 1913 | 1916 | 1920 | rVB3 | 2062 | 2586 | 0.13% | 0.007% |
| 17 | 14.339 | 1925 | 1930 | 1931 | rBV2 | 2091 | 3162 | 0.16% | 0.008% |
| 18 | 14.386 | 1931 | 1938 | 1948 | rVB2 | 619871 | 930603 | 46.79% | 2.408% |
| 19 | 14.610 | 1970 | 1976 | 1987 | rBV2 | 103641 | 220559 | 11.09% | 0.571% |
| 20 | 14.763 | 2000 | 2002 | 2005 | rBV2 | 2573 | 3603 | 0.18% | 0.009% |
| 21 | 15.168 | 2065 | 2071 | 2076 | rVB4 | 1581 | 2801 | 0.14% | 0.007% |
| 22 | 15.215 | 2076 | 2079 | 2083 | rBV2 | 4393 | 5737 | 0.29% | 0.015% |
| 23 | 15.268 | 2083 | 2088 | 2091 | rVB4 | 1502 | 2421 | 0.12% | 0.006% |
| 24 | 15.380 | 2101 | 2107 | 2122 | rBV | 1209498 | 1655585 | 83.24% | 4.284% |
| 25 | 15.521 | 2127 | 2131 | 2139 | rVB2 | 31644 | 43283 | 2.18% | 0.112% |
| 26 | 15.615 | 2144 | 2147 | 2153 | rVB | 5977 | 7723 | 0.39% | 0.020% |
| 27 | 15.815 | 2175 | 2181 | 2184 | rBV | 46220 | 62083 | 3.12% | 0.161% |
| 28 | 15.845 | 2184 | 2186 | 2191 | rVV2 | 23191 | 33978 | 1.71% | 0.088% |
| 29 | 15.886 | 2191 | 2193 | 2200 | rVB | 14248 | 18404 | 0.93% | 0.048% |
| 30 | 16.080 | 2220 | 2226 | 2227 | rBV2 | 2179 | 2349 | 0.12% | 0.006% |
| 31 | 16.115 | 2227 | 2232 | 2237 | rVV | 64807 | 82808 | 4.16% | 0.214% |
| 32 | 16.162 | 2237 | 2240 | 2242 | rVV2 | 2164 | 2529 | 0.13% | 0.007% |
| 33 | 16.209 | 2242 | 2248 | 2251 | rVV | 406179 | 520908 | 26.19% | 1.348% |
| 34 | 16.268 | 2251 | 2258 | 2264 | rVV2 | 375226 | 805342 | 40.49% | 2.084% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.327 | 2264 | 2268 | 2272 | rVV2 | 359100 | 529464 | 26.62% | 1.370% |
| 36 | 16.374 | 2272 | 2276 | 2280 | rVV | 154537 | 214528 | 10.79% | 0.555% |
| 37 | 16.427 | 2280 | 2285 | 2286 | rVV | 57516 | 79515 | 4.00% | 0.206% |
| 38 | 16.445 | 2286 | 2288 | 2296 | rVV | 85459 | 136195 | 6.85% | 0.352% |
| 39 | 16.527 | 2296 | 2302 | 2309 | rVV4 | 126096 | 225361 | 11.33% | 0.583% |
| 40 | 16.598 | 2309 | 2314 | 2317 | rVV | 229585 | 327920 | 16.49% | 0.849% |
| 41 | 16.633 | 2317 | 2320 | 2323 | rVV | 96955 | 147886 | 7.44% | 0.383% |
| 42 | 16.668 | 2323 | 2326 | 2334 | rVV2 | 107774 | 151555 | 7.62% | 0.392% |
| 43 | 16.727 | 2334 | 2336 | 2341 | rVB3 | 8217 | 10229 | 0.51% | 0.026% |
| 44 | 16.809 | 2346 | 2350 | 2353 | rBV3 | 8770 | 11609 | 0.58% | 0.030% |
| 45 | 16.874 | 2358 | 2361 | 2364 | rVV2 | 3426 | 4617 | 0.23% | 0.012% |
| 46 | 16.921 | 2364 | 2369 | 2373 | rVV2 | 11678 | 18385 | 0.92% | 0.048% |
| 47 | 16.968 | 2375 | 2377 | 2380 | rVB2 | 2748 | 2958 | 0.15% | 0.008% |
| 48 | 17.009 | 2380 | 2384 | 2386 | rVB4 | 3976 | 5672 | 0.29% | 0.015% |
| 49 | 17.033 | 2386 | 2388 | 2391 | rBV2 | 2792 | 2269 | 0.11% | 0.006% |
| 50 | 17.086 | 2394 | 2397 | 2399 | rBV2 | 1942 | 2147 | 0.11% | 0.006% |
| 51 | 17.139 | 2399 | 2406 | 2416 | rBV2 | 775664 | 1107403 | 55.68% | 2.866% |
| 52 | 17.239 | 2416 | 2423 | 2436 | rBV2 | 858231 | 1223109 | 61.50% | 3.165% |
| 53 | 17.486 | 2455 | 2465 | 2478 | rBV | 1392162 | 1988837 | 100.00% | 5.146% |
| 54 | 17.604 | 2483 | 2485 | 2490 | rVB5 | 5249 | 6697 | 0.34% | 0.017% |
| 55 | 17.668 | 2493 | 2496 | 2500 | rVB3 | 2691 | 3491 | 0.18% | 0.009% |
| 56 | 17.733 | 2506 | 2507 | 2512 | rVB4 | 2965 | 2836 | 0.14% | 0.007% |
| 57 | 17.821 | 2512 | 2522 | 2526 | rBV | 50782 | 92965 | 4.67% | 0.241% |
| 58 | 17.874 | 2526 | 2531 | 2537 | rVB2 | 38204 | 71240 | 3.58% | 0.184% |
| 59 | 17.939 | 2537 | 2542 | 2549 | rBV | 49957 | 74440 | 3.74% | 0.193% |
| 60 | 18.015 | 2551 | 2555 | 2557 | rBV | 92509 | 117313 | 5.90% | 0.304% |
| 61 | 18.051 | 2557 | 2561 | 2571 | rVB | 399612 | 589582 | 29.64% | 1.526% |
| 62 | 18.139 | 2571 | 2576 | 2581 | rBV | 681808 | 1075456 | 54.07% | 2.783% |
| 63 | 18.186 | 2581 | 2584 | 2588 | rBV | 749584 | 1291860 | 64.96% | 3.343% |
| 64 | 18.280 | 2594 | 2600 | 2604 | rVB2 | 575178 | 1129034 | 56.77% | 2.922% |
| 65 | 18.321 | 2604 | 2607 | 2610 | rVV | 200199 | 261175 | 13.13% | 0.676% |
| 66 | 18.362 | 2610 | 2614 | 2617 | rVV2 | 368345 | 511103 | 25.70% | 1.323% |
| 67 | 18.398 | 2617 | 2620 | 2624 | rVV | 507087 | 715532 | 35.98% | 1.852% |
| 68 | 18.439 | 2624 | 2627 | 2631 | rVB2 | 317865 | 386983 | 19.46% | 1.001% |
| 69 | 18.486 | 2631 | 2635 | 2642 | rBV2 | 592072 | 1166661 | 58.66% | 3.019% |
| 70 | 18.556 | 2643 | 2647 | 2658 | rVB2 | 377977 | 702182 | 35.31% | 1.817% |
| 71 | 18.645 | 2658 | 2662 | 2666 | rVB2 | 43839 | 69880 | 3.51% | 0.181% |

LSC Area Percent Report

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Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 18.739 | 2667 | 2678 | 2682 | rBV5 | 83051 | 224107 | 11.27% | 0.580% |
| 73 | 18.780 | 2682 | 2685 | 2693 | rVB5 | 42754 | 99913 | 5.02% | 0.259% |
| 74 | 18.845 | 2693 | 2696 | 2701 | rVB | 23434 | 31848 | 1.60% | 0.082% |
| 75 | 19.050 | 2726 | 2731 | 2734 | rBV4 | 27256 | 45045 | 2.26% | 0.117% |
| 76 | 19.133 | 2743 | 2745 | 2746 | rBV2 | 8255 | 6208 | 0.31% | 0.016% |
| 77 | 19.168 | 2748 | 2751 | 2753 | rVV3 | 24746 | 34656 | 1.74% | 0.090% |
| 78 | 19.221 | 2756 | 2760 | 2766 | rVB4 | 70734 | 130003 | 6.54% | 0.336% |
| 79 | 19.280 | 2766 | 2770 | 2772 | rBV3 | 38706 | 52406 | 2.64% | 0.136% |
| 80 | 19.303 | 2772 | 2774 | 2781 | rVB5 | 39108 | 59044 | 2.97% | 0.153% |
| 81 | 19.403 | 2786 | 2791 | 2801 | rVB | 1205057 | 1593394 | 80.12% | 4.123% |
| 82 | 19.539 | 2809 | 2814 | 2823 | rVB | 1056395 | 1476120 | 74.22% | 3.820% |
| 83 | 19.615 | 2824 | 2827 | 2830 | rVV2 | 23301 | 27803 | 1.40% | 0.072% |
| 84 | 19.662 | 2833 | 2835 | 2839 | rVB5 | 11473 | 13578 | 0.68% | 0.035% |
| 85 | 19.762 | 2848 | 2852 | 2854 | rBV2 | 38179 | 50339 | 2.53% | 0.130% |
| 86 | 19.797 | 2854 | 2858 | 2863 | rVB | 114905 | 157169 | 7.90% | 0.407% |
| 87 | 19.903 | 2869 | 2876 | 2882 | rBV2 | 464321 | 1131762 | 56.91% | 2.929% |
| 88 | 19.962 | 2882 | 2886 | 2889 | rVV | 385251 | 605799 | 30.46% | 1.568% |
| 89 | 19.997 | 2889 | 2892 | 2898 | rVV2 | 286832 | 448520 | 22.55% | 1.161% |
| 90 | 20.092 | 2898 | 2908 | 2916 | rVV4 | 304517 | 866117 | 43.55% | 2.241% |
| 91 | 20.162 | 2916 | 2920 | 2928 | rVV | 395955 | 632480 | 31.80% | 1.637% |
| 92 | 20.227 | 2928 | 2931 | 2937 | rVB | 135004 | 176162 | 8.86% | 0.456% |
| 93 | 20.350 | 2948 | 2952 | 2957 | rBV3 | 53574 | 127917 | 6.43% | 0.331% |
| 94 | 20.897 | 3041 | 3045 | 3052 | rBV | 200308 | 288910 | 14.53% | 0.748% |
| 95 | 21.027 | 3063 | 3067 | 3074 | rBV | 189818 | 279358 | 14.05% | 0.723% |
| 96 | 21.333 | 3115 | 3119 | 3124 | rBV | 1001079 | 1278793 | 64.30% | 3.309% |
| 97 | 23.468 | 3476 | 3482 | 3492 | rVB2 | 834428 | 1617256 | 81.32% | 4.185% |
| 98 | 23.615 | 3501 | 3507 | 3515 | rVB | 683769 | 1334077 | 67.08% | 3.452% |

Sum of corrected areas: 38645599

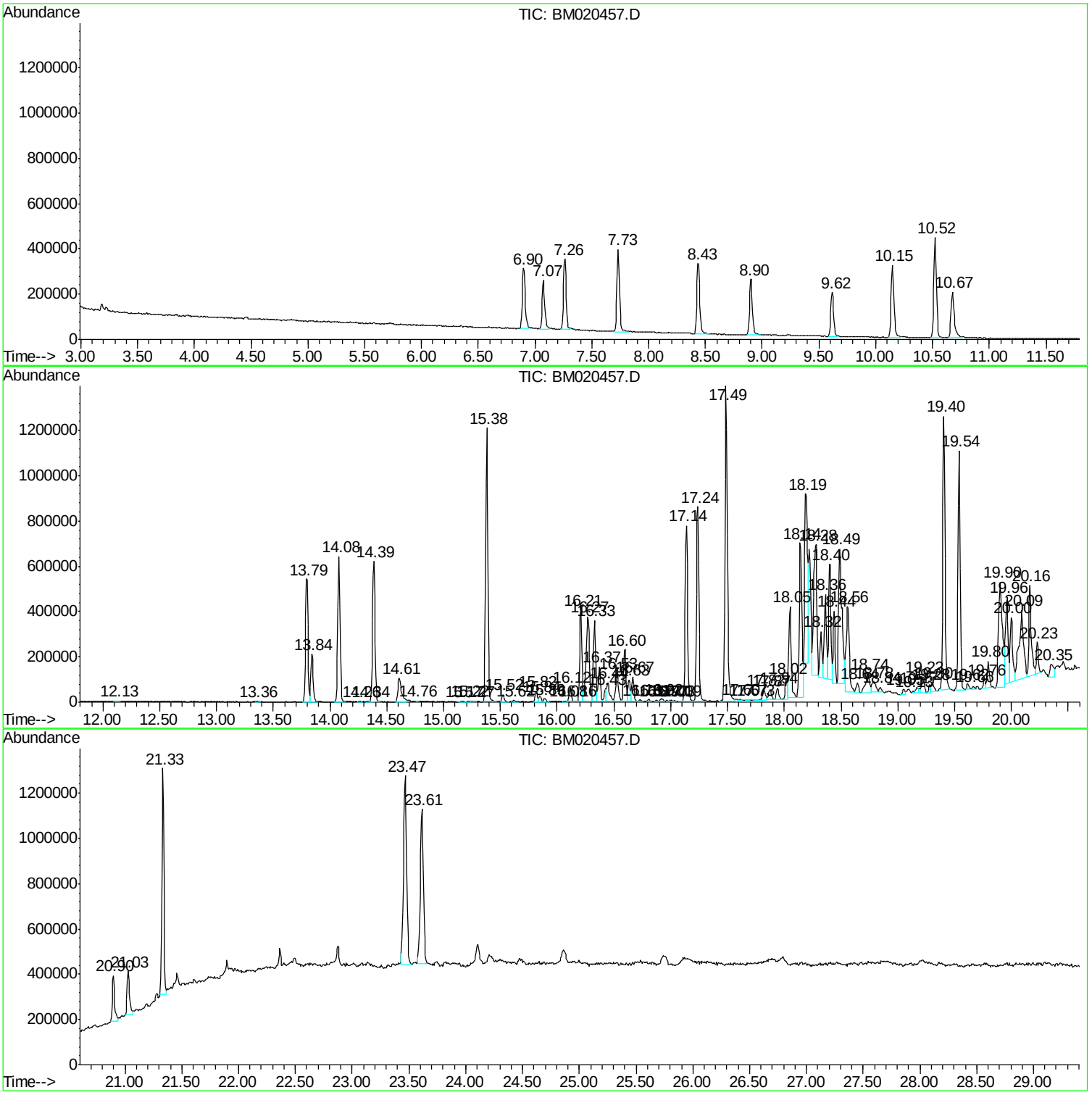
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

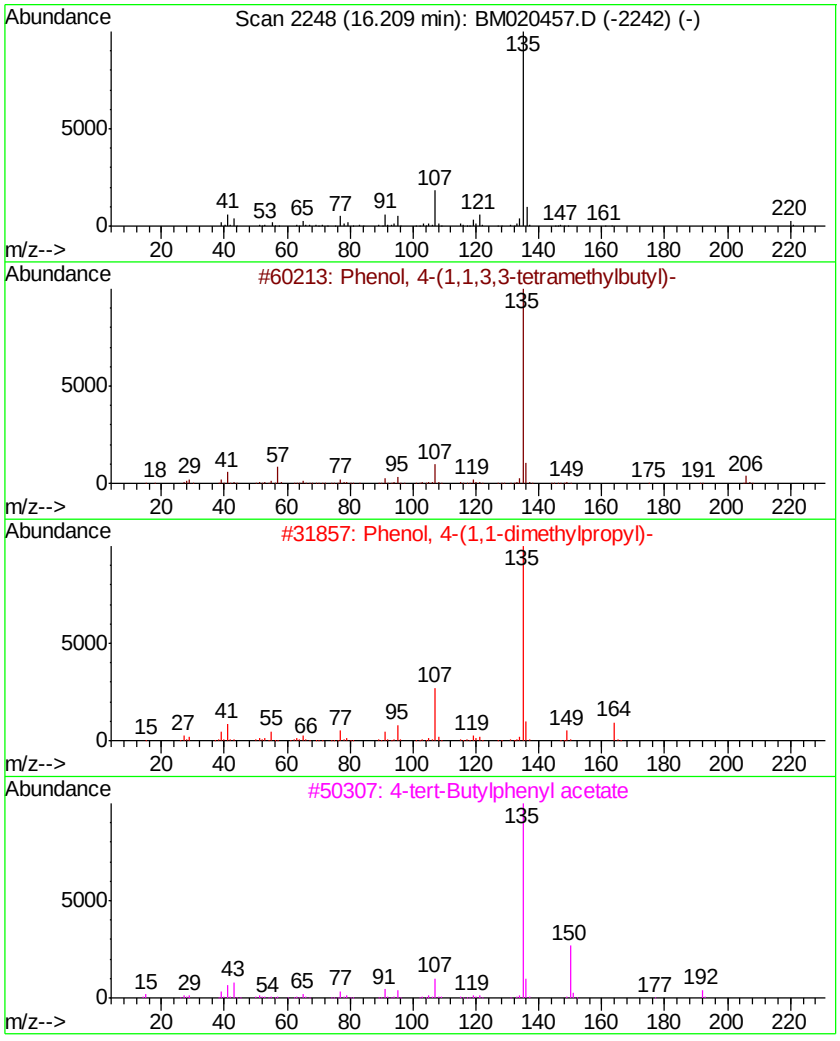
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

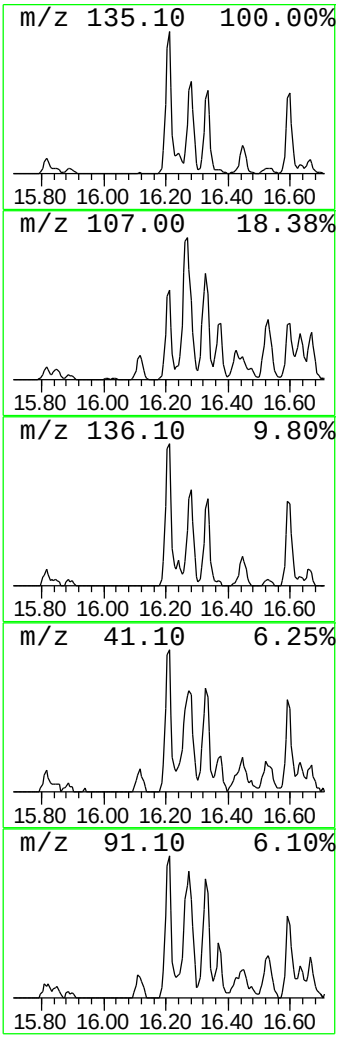
**********

Peak Number 1 Phenol, 4-(1,1,3,3-tetramet... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.21 | 9.41 ng/ul | 520908 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 78 |
| 2 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 78 |
| 3 | 4-tert-Butylphenyl acetate | 192 | C12H16O2 | 003056-64-2 | 72 |
| 4 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 64 |
| 5 | 1-Adamantan-1-yl-6-chloro-7-fluo... | 375 | C20H19ClFNO3 | 1000210-85-1 | 59 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

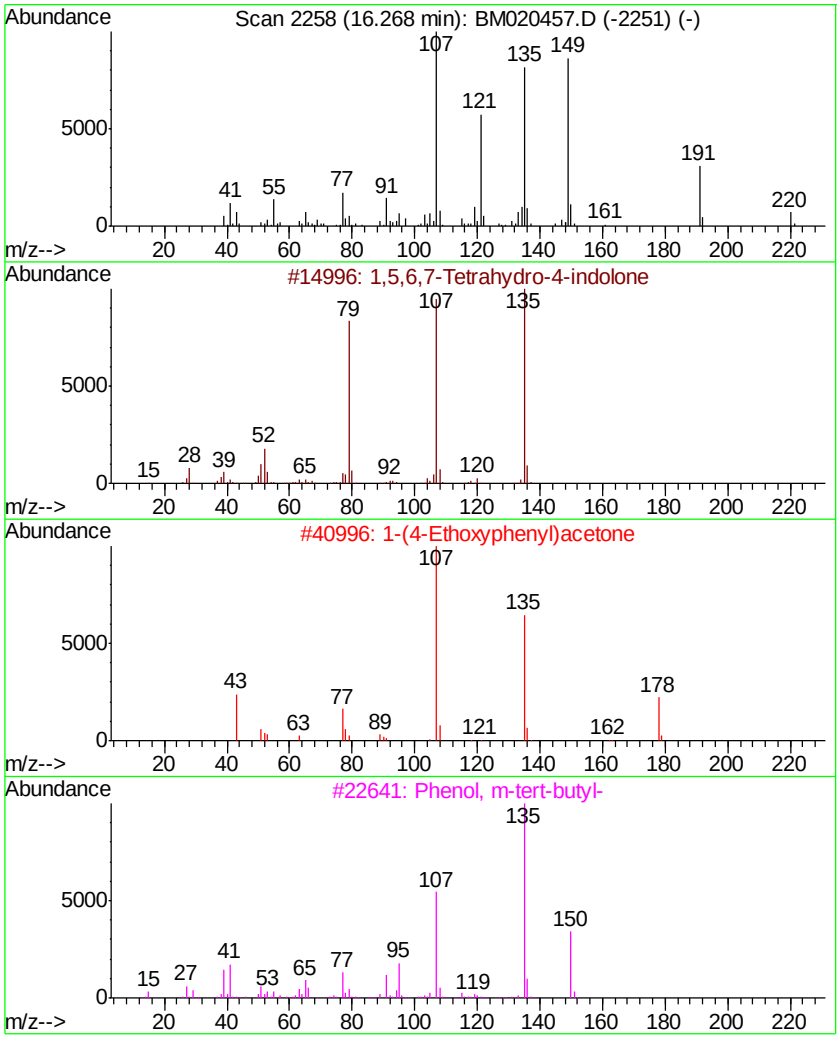
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

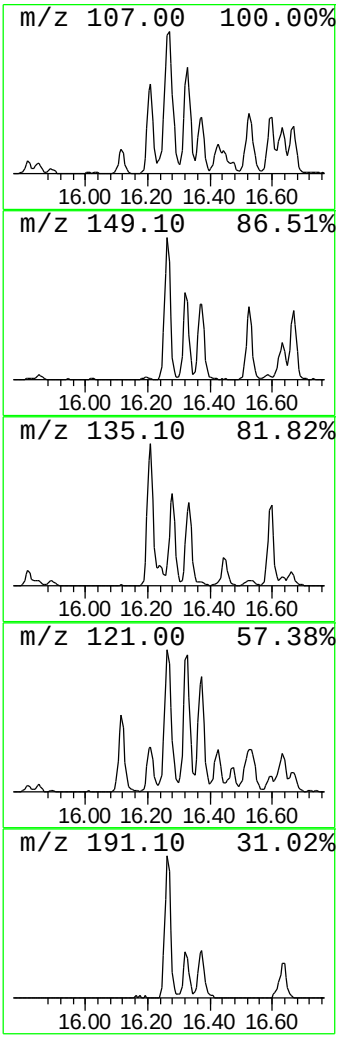
**********

Peak Number 2 unknown-01 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.27 | 14.54 ng/ul | 805342 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,5,6,7-Tetrahydro-4-indolone | 135 | C8H9NO | 013754-86-4 | 46 |
| 2 | 1-(4-Ethoxyphenyl)acetone | 178 | C11H14O2 | 144818-72-4 | 43 |
| 3 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 35 |
| 4 | Acetamide, N-(3-methylphenyl)- | 149 | C9H11NO | 000537-92-8 | 27 |
| 5 | Pyridine-3-carbonitrile, 1,2-dih... | 191 | C9H9N3O2 | 220098-92-0 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
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Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

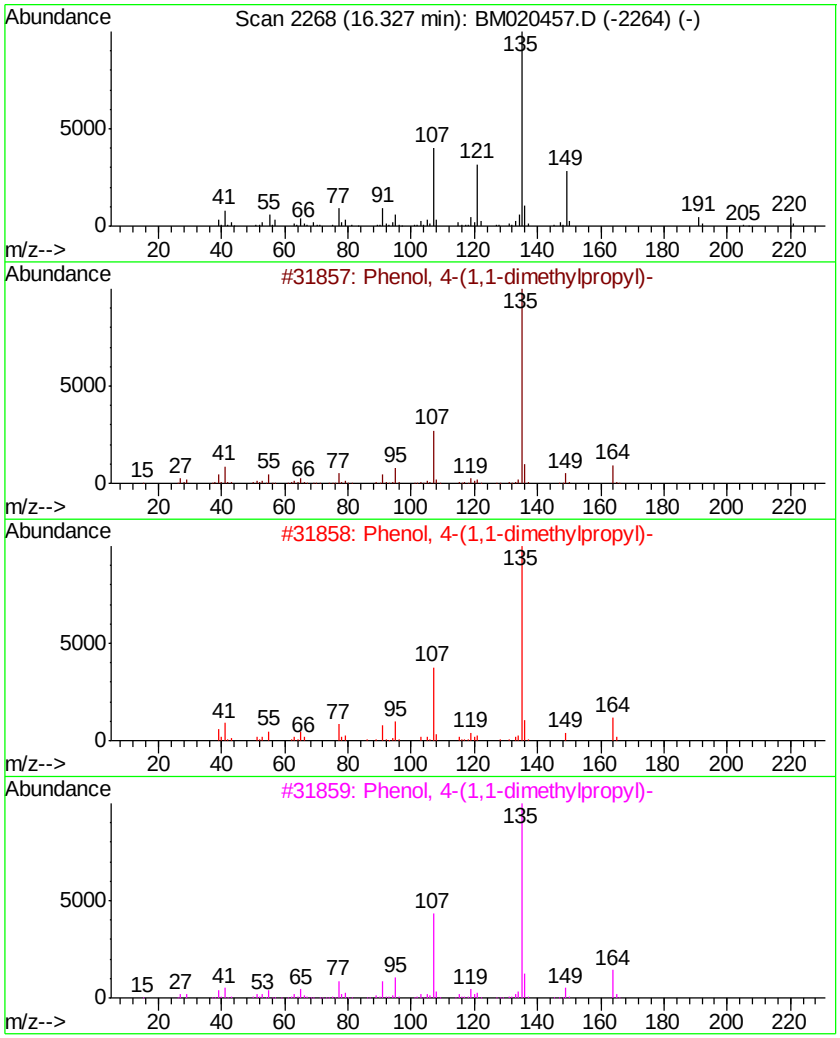
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

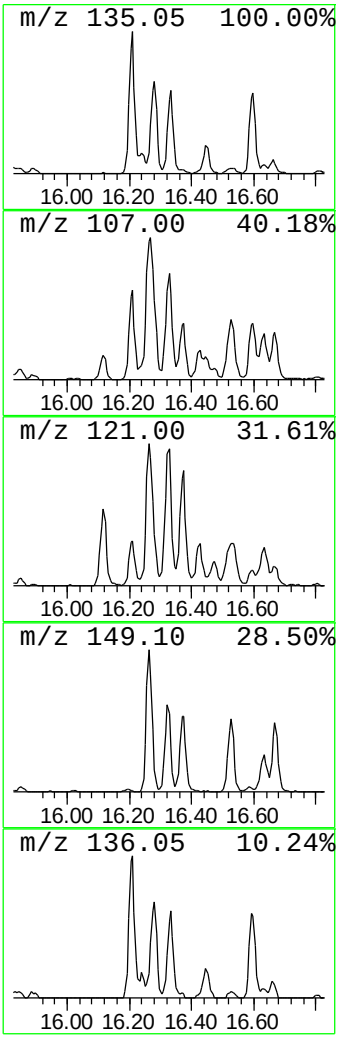
**********

Peak Number 3 Phenol, 4-(1,1-dimethylprop... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.33 | 9.56 ng/ul | 529464 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 64 |
| 2 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 64 |
| 3 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 64 |
| 4 | Phenol, p-tert-butyl- | 150 | C10H14O | 000098-54-4 | 59 |
| 5 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 59 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

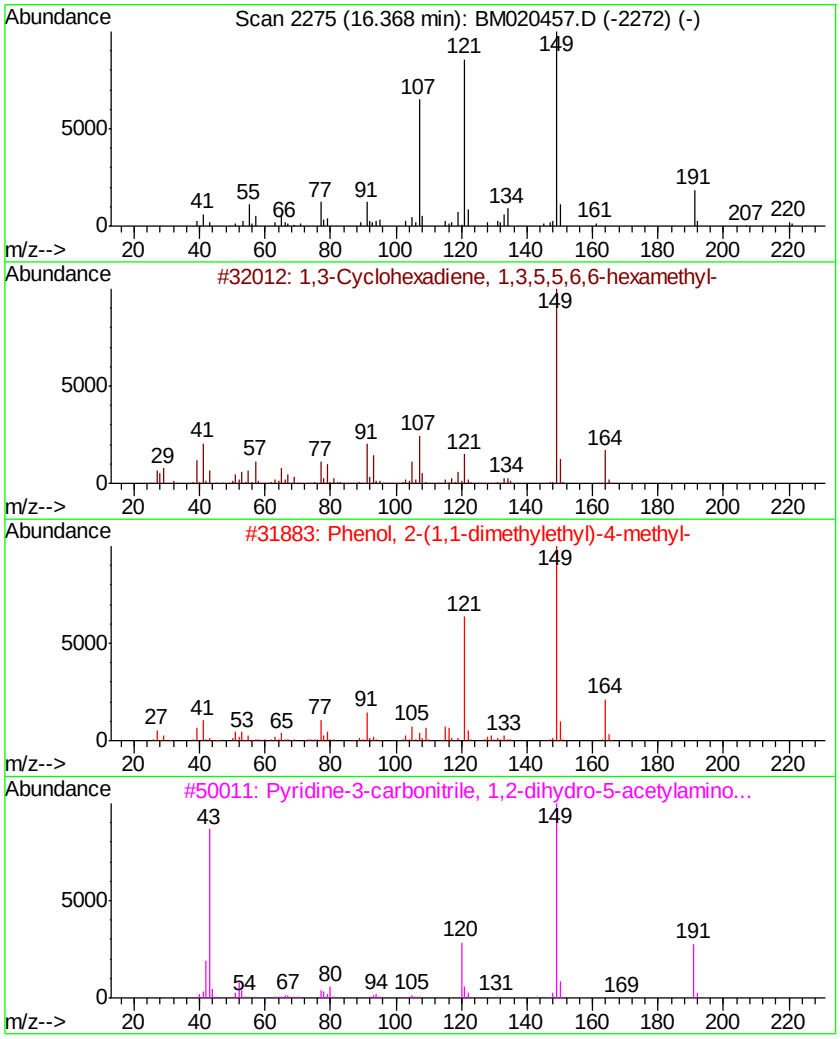
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

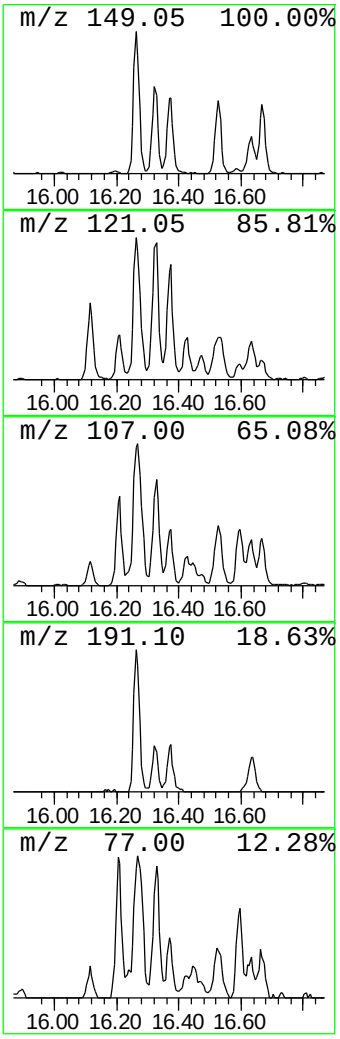
**********

Peak Number 4 unknown-02 Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.37 | 3.87 ng/ul | 214528 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclohexadiene, 1,3,5,5,6,6-... | 164 | C12H20 | 1000150-39-4 | 43 |
| 2 | Phenol, 2-(1,1-dimethylethyl)-4-... | 164 | C11H16O | 002409-55-4 | 42 |
| 3 | Pyridine-3-carbonitrile, 1,2-dih... | 191 | C9H9N3O2 | 220098-92-0 | 38 |
| 4 | Phenol, 4-(1-methylpropyl)- | 150 | C10H14O | 000099-71-8 | 30 |
| 5 | Pyridine, pentamethyl- | 149 | C10H15N | 003748-83-2 | 27 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

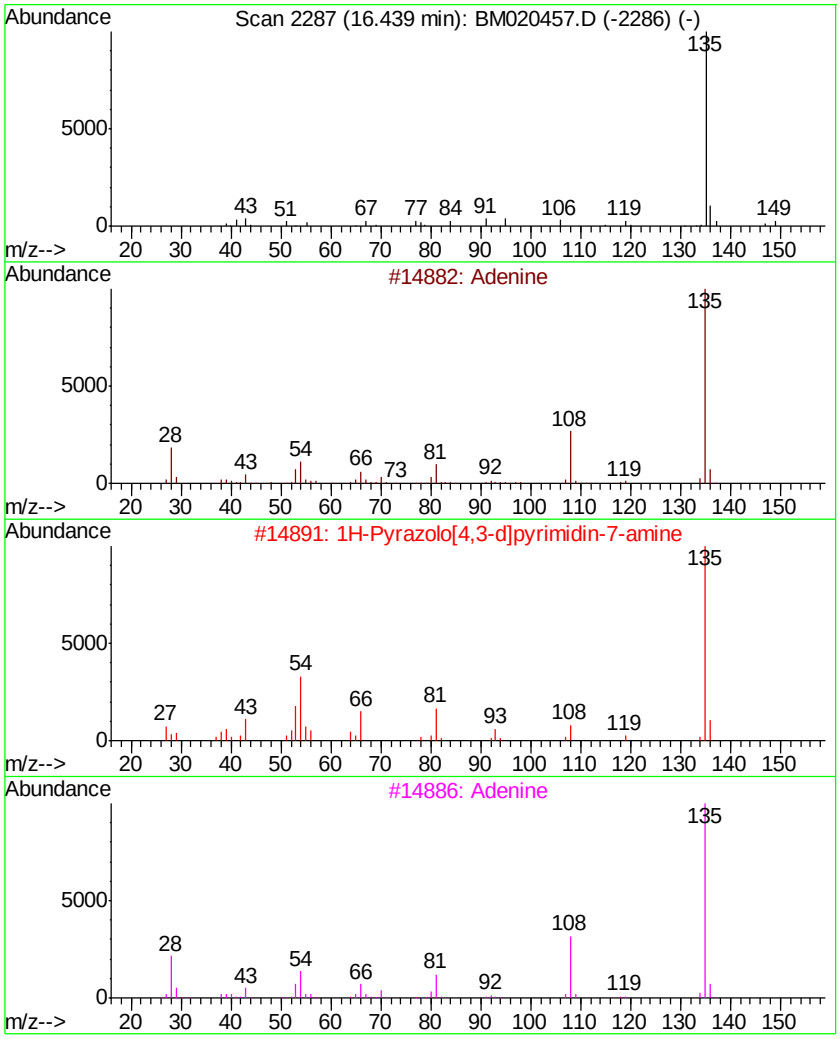
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

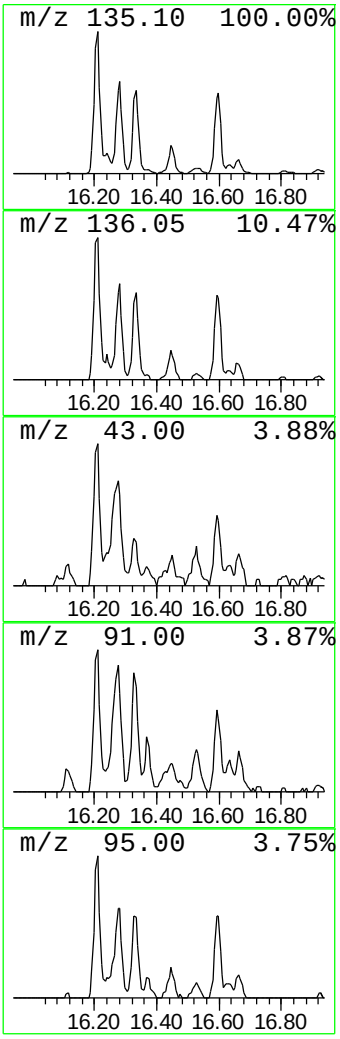
**********

Peak Number 5 Adenine Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.44 | 2.46 ng/ul | 136195 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Adenine | 135 | C5H5N5 | 000073-24-5 | 56 |
| 2 | 1H-Pyrazolo[4,3-d]pyrimidin-7-amine | 135 | C5H5N5 | 013877-56-0 | 56 |
| 3 | Adenine | 135 | C5H5N5 | 000073-24-5 | 50 |
| 4 | Benzenamine, 2,4,6-trimethyl- | 135 | C9H13N | 000088-05-1 | 50 |
| 5 | Carbamic acid, N-[1,1-bis(triflu... | 413 | C19H25F6NO2 | 296242-69-8 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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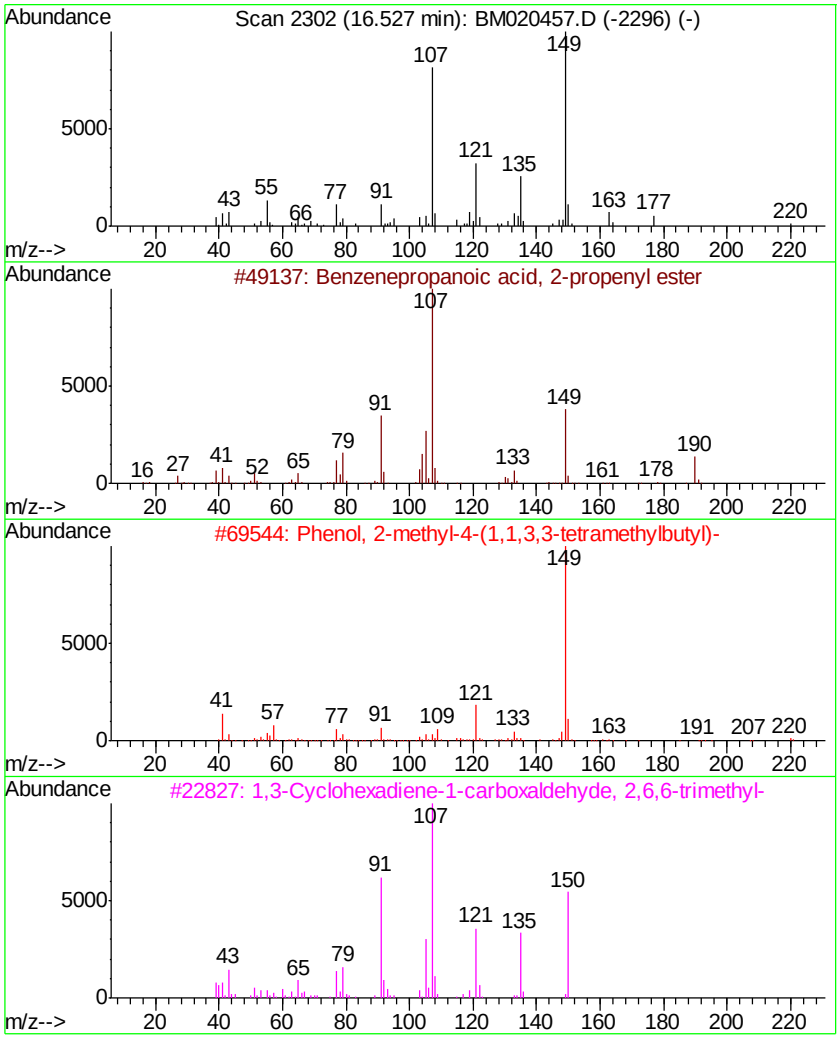
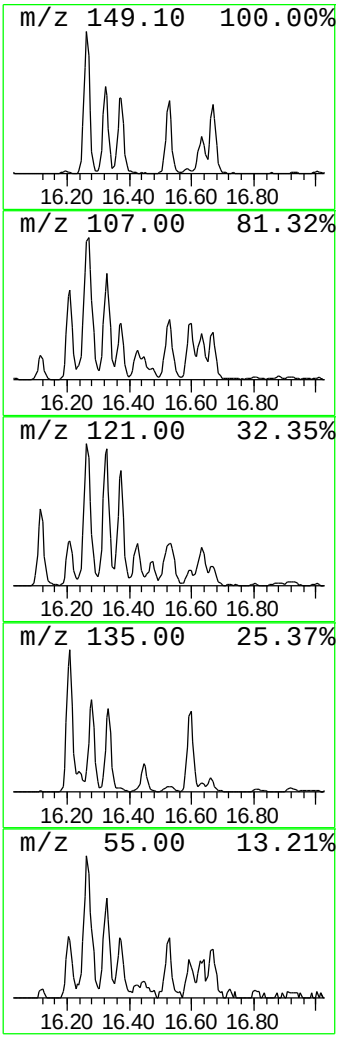
Peak Number 6 Benzenepropanoic acid, 2-pr... Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.53 | 4.07 ng/ul | 225361 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenepropanoic acid, 2-propenyl... | 190 | C12H14O2 | 015814-45-6 | 50 |
| 2 | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O | 002219-84-3 | 38 |
| 3 | 1,3-Cyclohexadiene-1-carboxaldeh... | 150 | C10H14O | 000116-26-7 | 38 |
| 4 | 2-Methyl-2-(4'-methoxyphenyl)pen... | 206 | C13H18O2 | 185700-49-6 | 35 |
| 5 | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O | 002219-84-3 | 35 |



# Library Search Compound Report

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Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

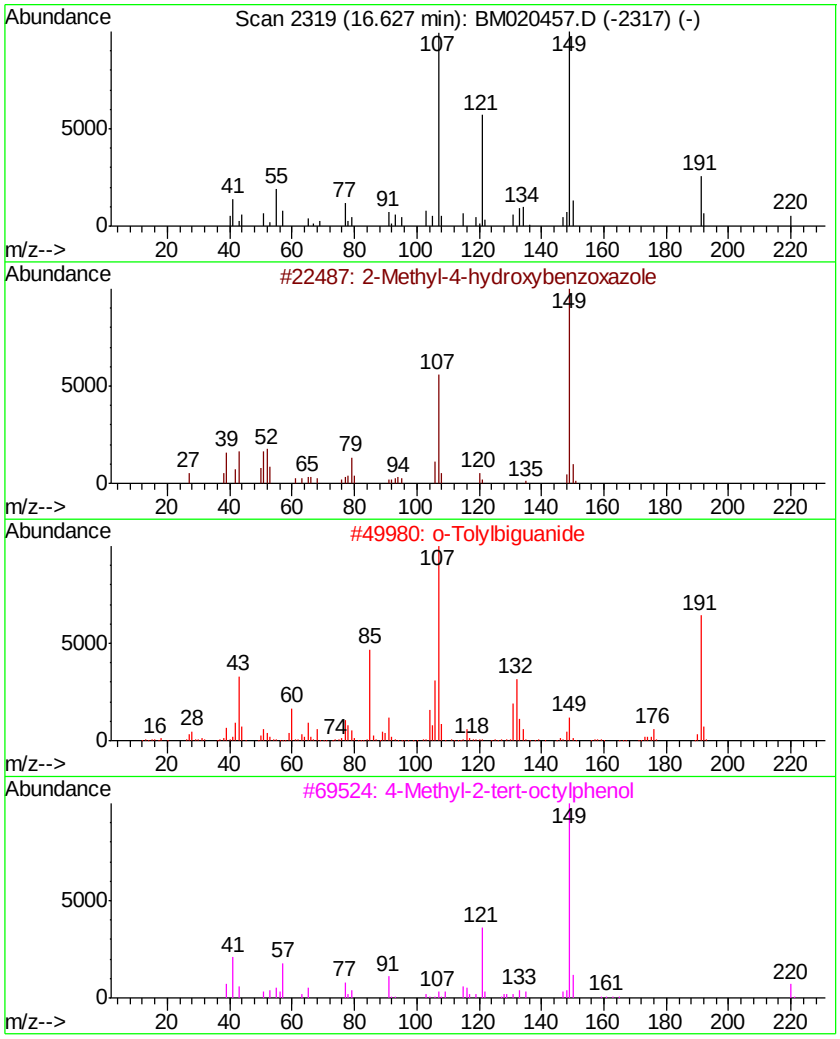
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

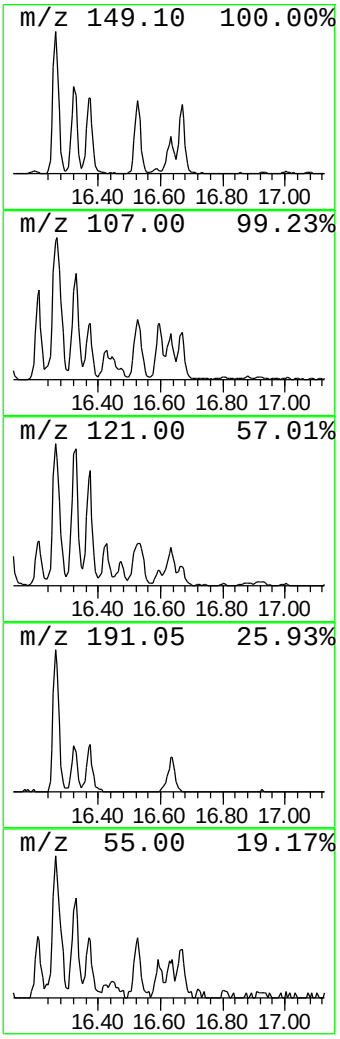
**********

Peak Number 8 unknown-03 Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.63 | 2.67 ng/ul | 147886 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methyl-4-hydroxybenzoxazole | 149 | C8H7NO2 | 051110-60-2 | 47 |
| 2 | o-Tolylbiguanide | 191 | C9H13N5 | 000093-69-6 | 43 |
| 3 | 4-Methyl-2-tert-octylphenol | 220 | C15H24O | 004979-46-8 | 38 |
| 4 | Butanamide, N-(2-methylphenyl)-3... | 191 | C11H13NO2 | 000093-68-5 | 38 |
| 5 | Pyridine-3-carbonitrile, 1,2-dih... | 191 | C9H9N3O2 | 220098-92-0 | 38 |



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Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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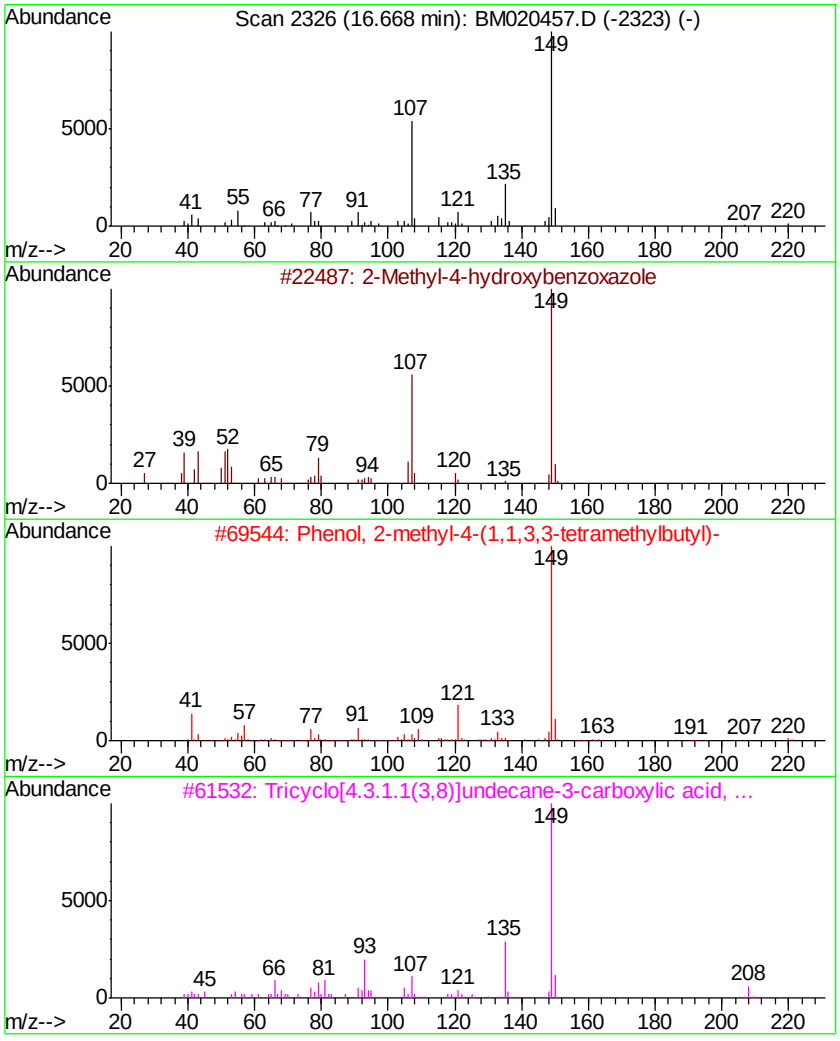
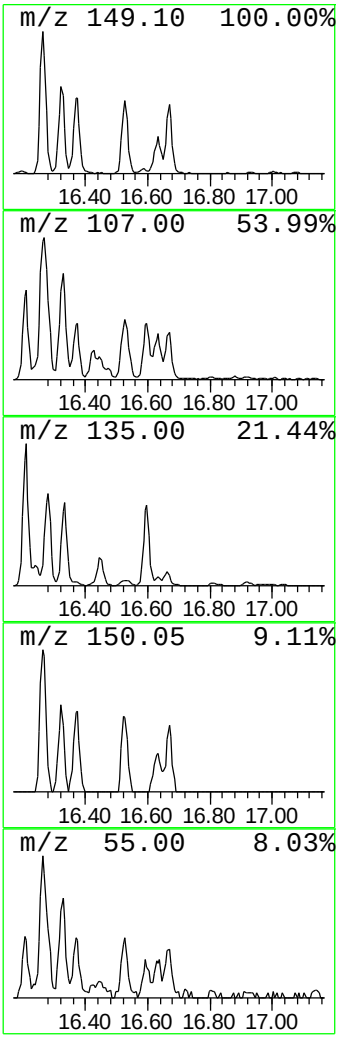
Peak Number 9 2-Methyl-4-hydroxybenzoxazole Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.67 | 2.74 ng/ul | 151555 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methyl-4-hydroxybenzoxazole | 149 | C8H7NO2 | 051110-60-2 | 59 |
| 2 | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O | 002219-84-3 | 49 |
| 3 | Tricyclo[4.3.1.1(3,8)]undecane-3... | 208 | C13H20O2 | 031061-61-7 | 42 |
| 4 | Acetamide, 2-(4-cyclohexylphenox... | 324 | C20H24N2O2 | 1000263-95-6 | 40 |
| 5 | 2-Methyl-2-(4'-methoxyphenyl)pen... | 206 | C13H18O2 | 185700-49-6 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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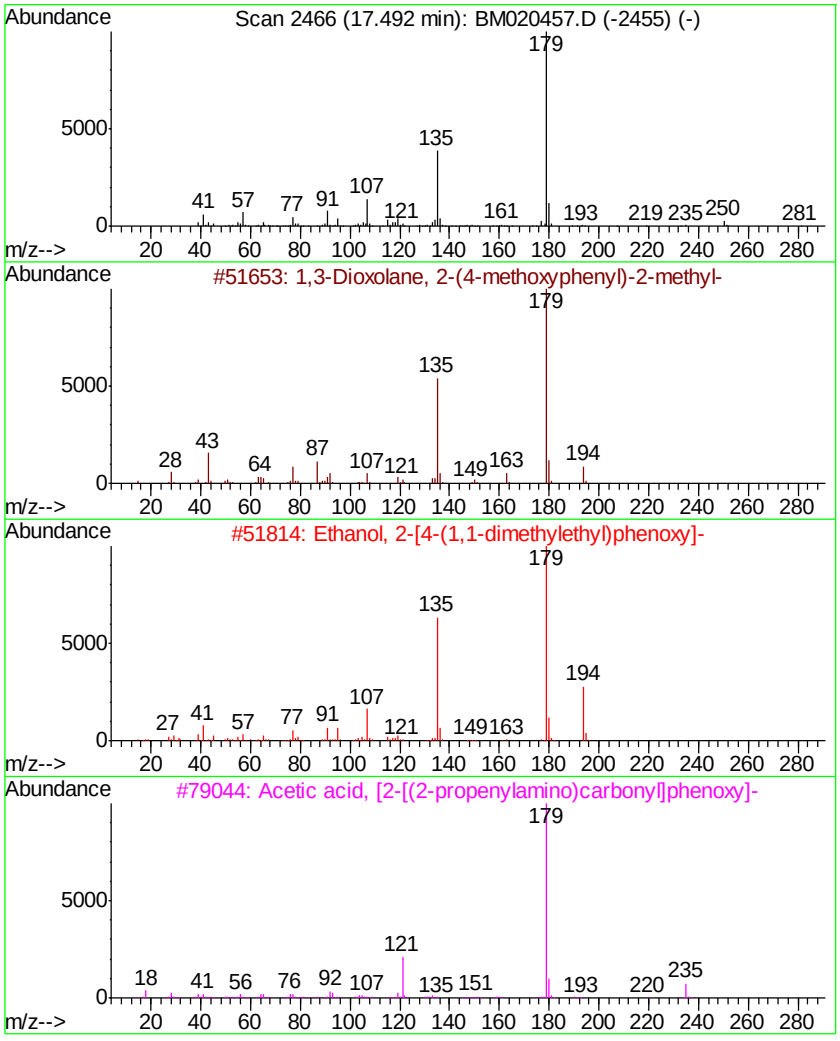
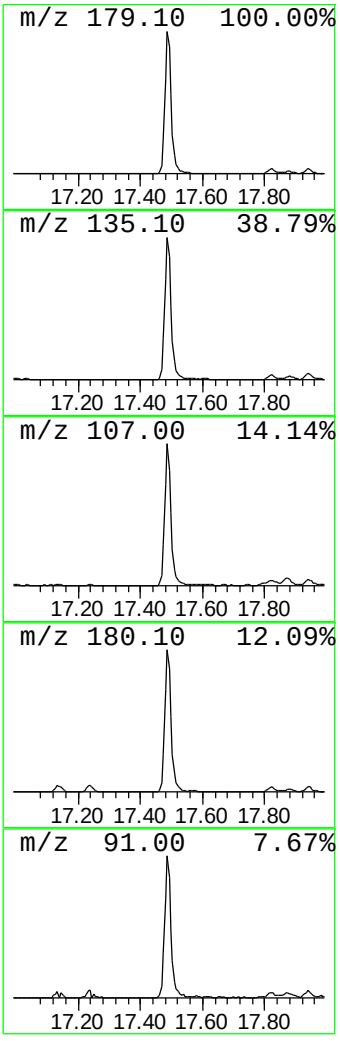
Peak Number 10 1,3-Dioxolane, 2-(4-methoxy... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.49 | 35.92 ng/ul | 1988840 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Dioxolane, 2-(4-methoxyphenyl... | 194 | C11H14O3 | 036881-00-2 | 72 |
| 2 | Ethanol, 2-[4-(1,1-dimethylethyl... | 194 | C12H18O2 | 000713-46-2 | 50 |
| 3 | Acetic acid, [2-[(2-propenylamin... | 235 | C12H13NO4 | 000119-45-9 | 43 |
| 4 | 2-(4-Formyl-phenoxy)-acetamide | 179 | C9H9NO3 | 135857-20-4 | 39 |
| 5 | Ethanol, 2-[4-(1,1-dimethylpropy... | 208 | C13H20O2 | 006382-07-6 | 38 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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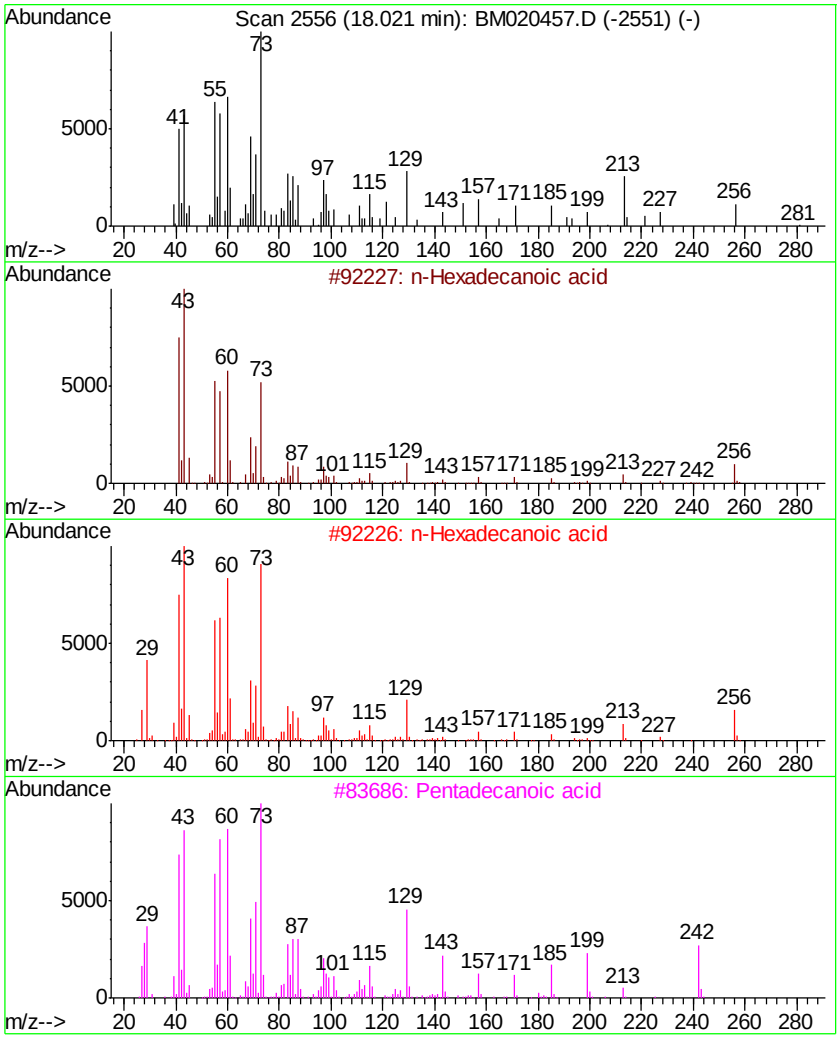
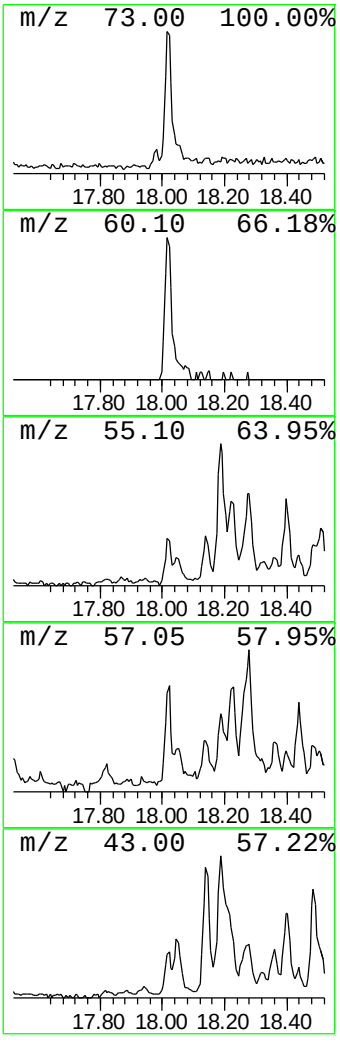
Peak Number 11 n-Hexadecanoic acid Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.02 | 2.12 ng/ul | 117313 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 2 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 70 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 64 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 58 |
| 5 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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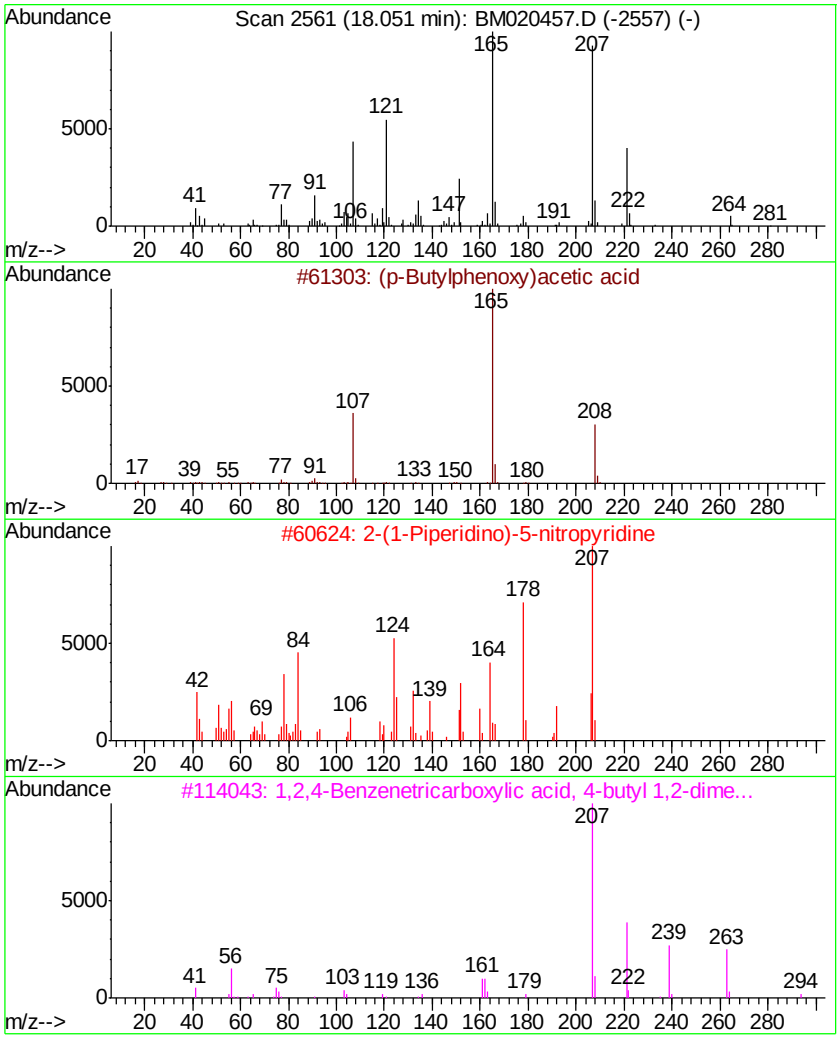
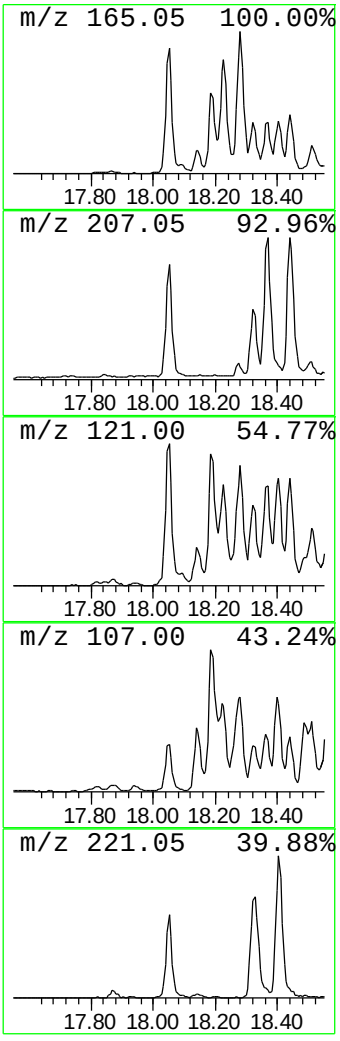
Peak Number 12 unknown-04 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.05 | 10.65 ng/ul | 589582 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (p-Butylphenoxy)acetic acid | 208 | C12H16O3 | 086167-21-7 | 35 |
| 2 | 2-(1-Piperidino)-5-nitropyridine | 207 | C10H13N3O2 | 026820-61-1 | 27 |
| 3 | 1,2,4-Benzenetricarboxylic acid,... | 294 | C15H18O6 | 043049-07-6 | 25 |
| 4 | 3-(2,4-Dimethoxyphenyl)butan-2-one | 208 | C12H16O3 | 1000191-49-6 | 25 |
| 5 | 3-[(3,5-Dimethoxybenzoyl)hydrazo... | 337 | C16H23N3O5 | 1000226-04-1 | 25 |



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Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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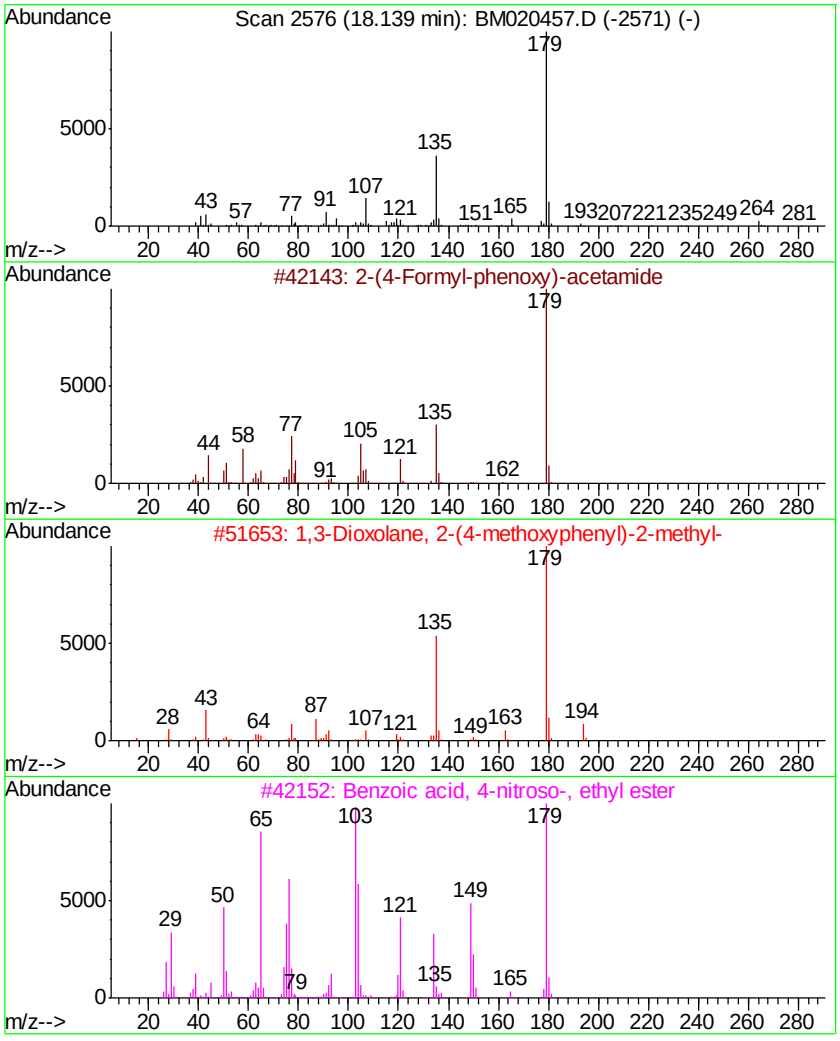
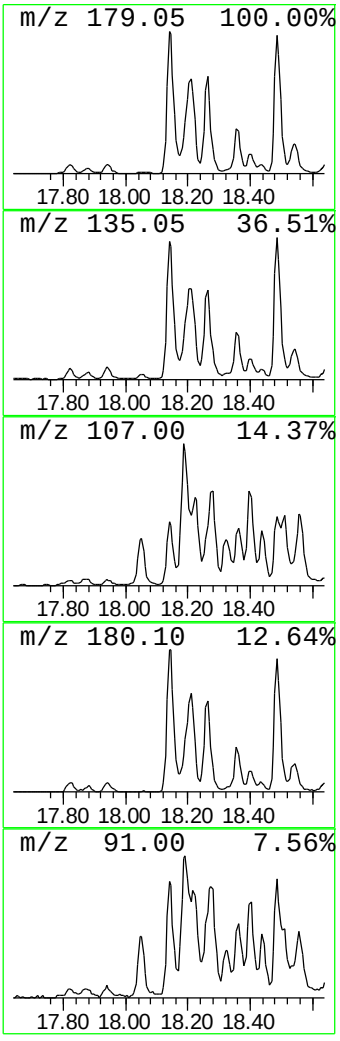
Peak Number 13 2-(4-Formyl-phenoxy)-acetamide Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.14 | 19.42 ng/ul | 1075460 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-(4-Formyl-phenoxy)-acetamide | 179 | C9H9NO3 | 135857-20-4 | 64 |
| 2 | 1,3-Dioxolane, 2-(4-methoxyphenyl... | 194 | C11H14O3 | 036881-00-2 | 56 |
| 3 | Benzoic acid, 4-nitroso-, ethyl ... | 179 | C9H9NO3 | 007476-79-1 | 47 |
| 4 | Acetic acid, [2-[(2-propenylamin... | 235 | C12H13NO4 | 000119-45-9 | 40 |
| 5 | 6H-Purin-6-one, 2-(dimethylamino... | 179 | C7H9N5O | 001445-15-4 | 39 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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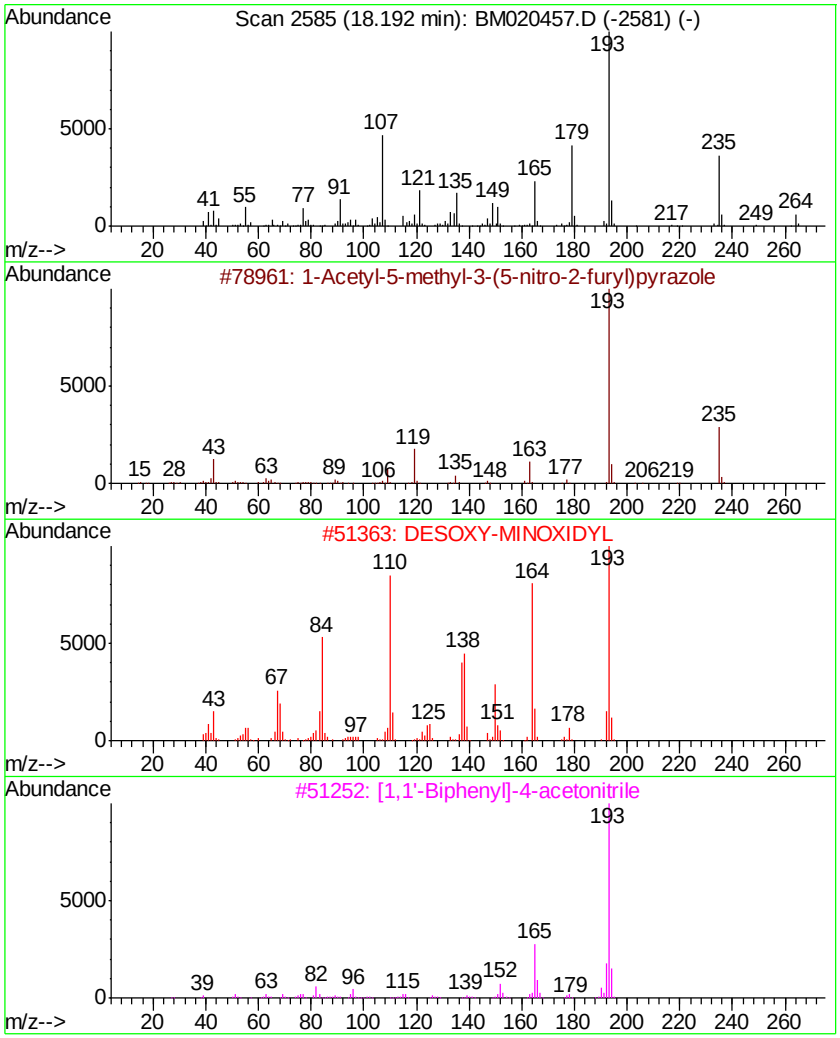
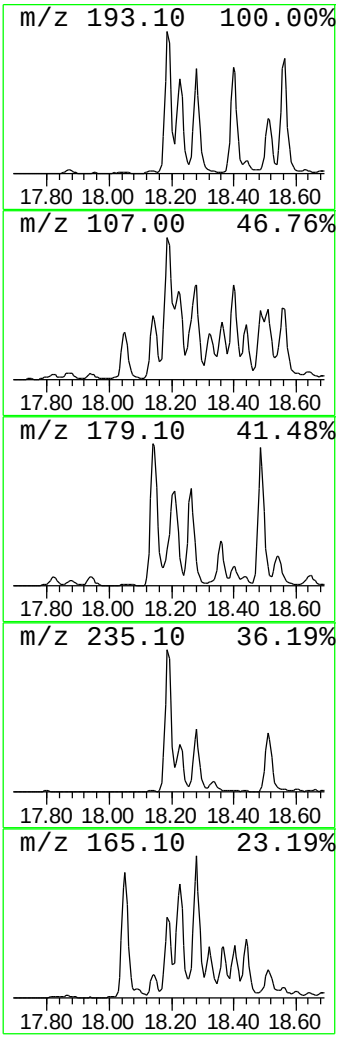
Peak Number 14 unknown-05 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.19 | 23.33 ng/ul | 1291860 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Acetyl-5-methyl-3-(5-nitro-2-f... | 235 | C10H9N3O4 | 016239-91-1 | 45 |
| 2 | DESOXY-MINOXIDYL | 193 | C9H15N5 | 1000246-13-2 | 38 |
| 3 | [1,1'-Biphenyl]-4-acetonitrile | 193 | C14H11N | 031603-77-7 | 38 |
| 4 | Valerophenone, 2'-(trimethylsilo... | 250 | C14H22O2Si | 033342-91-5 | 38 |
| 5 | 1H-Indole, 2-phenyl- | 193 | C14H11N | 000948-65-2 | 32 |



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Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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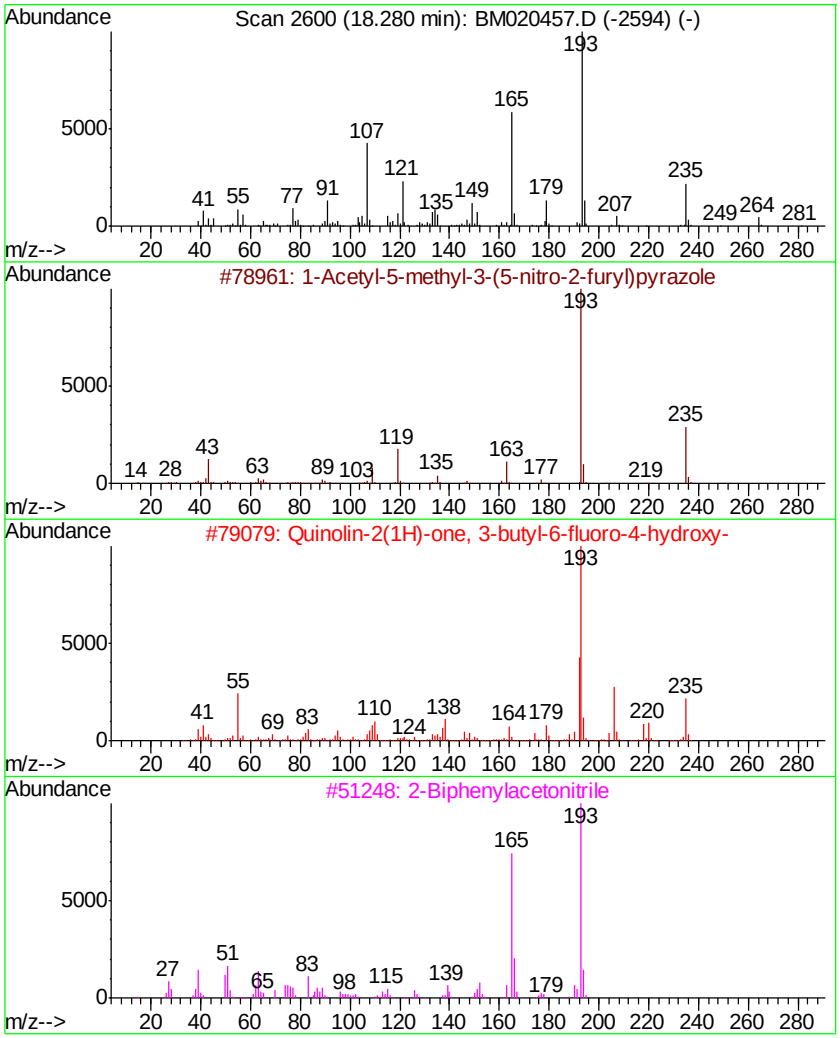
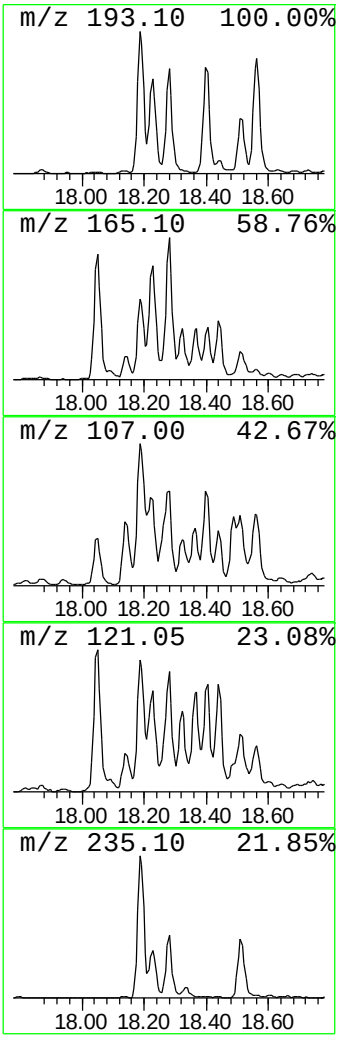
Peak Number 15 1-Acetyl-5-methyl-3-(5-nitr... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.28 | 20.39 ng/ul | 1129030 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Acetyl-5-methyl-3-(5-nitro-2-f... | 235 | C10H9N3O4 | 016239-91-1 | 50 |
| 2 | Quinolin-2(1H)-one, 3-butyl-6-fl... | 235 | C13H14FNO2 | 279691-75-7 | 43 |
| 3 | 2-Biphenylacetonitrile | 193 | C14H11N | 019853-10-2 | 43 |
| 4 | 3,4-Dihydro-6-nitrocoumarin | 193 | C9H7NO4 | 020920-99-4 | 38 |
| 5 | 2-Anthracenamine | 193 | C14H11N | 000613-13-8 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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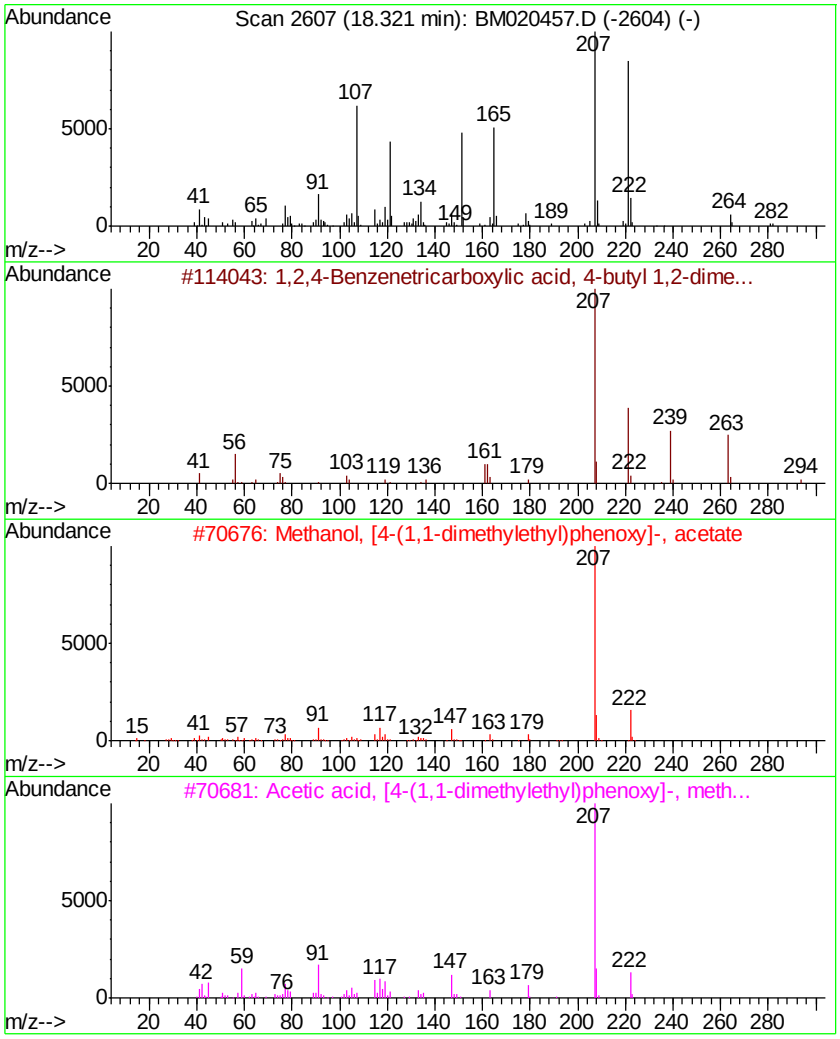
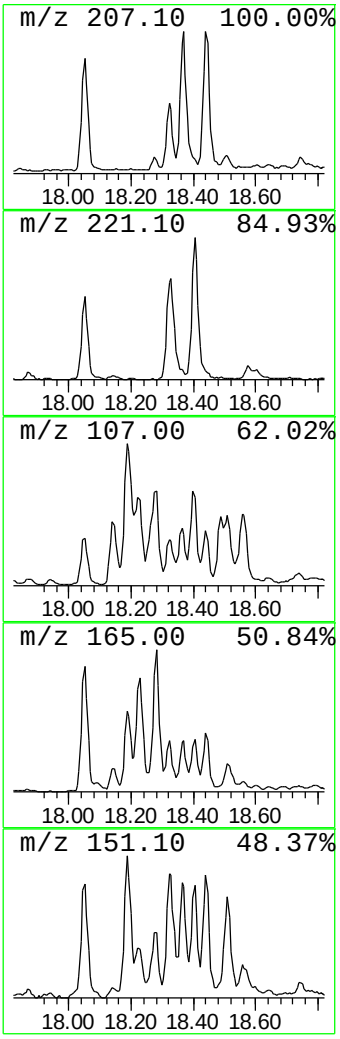
Peak Number 16 unknown-06 Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.32 | 4.72 ng/ul | 261175 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2,4-Benzenetricarboxylic acid,... | 294 | C15H18O6 | 043049-07-6 | 27 |
| 2 | Methanol, [4-(1,1-dimethylethyl)... | 222 | C13H18O3 | 054889-98-4 | 20 |
| 3 | Acetic acid, [4-(1,1-dimethyleth... | 222 | C13H18O3 | 088530-52-3 | 20 |
| 4 | 1,3-Benzenedicarboxylic acid, 5-... | 222 | C12H14O4 | 002359-09-3 | 18 |
| 5 | 2,4-Di-tert-butylthiophenol | 222 | C14H22S | 019728-43-9 | 16 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

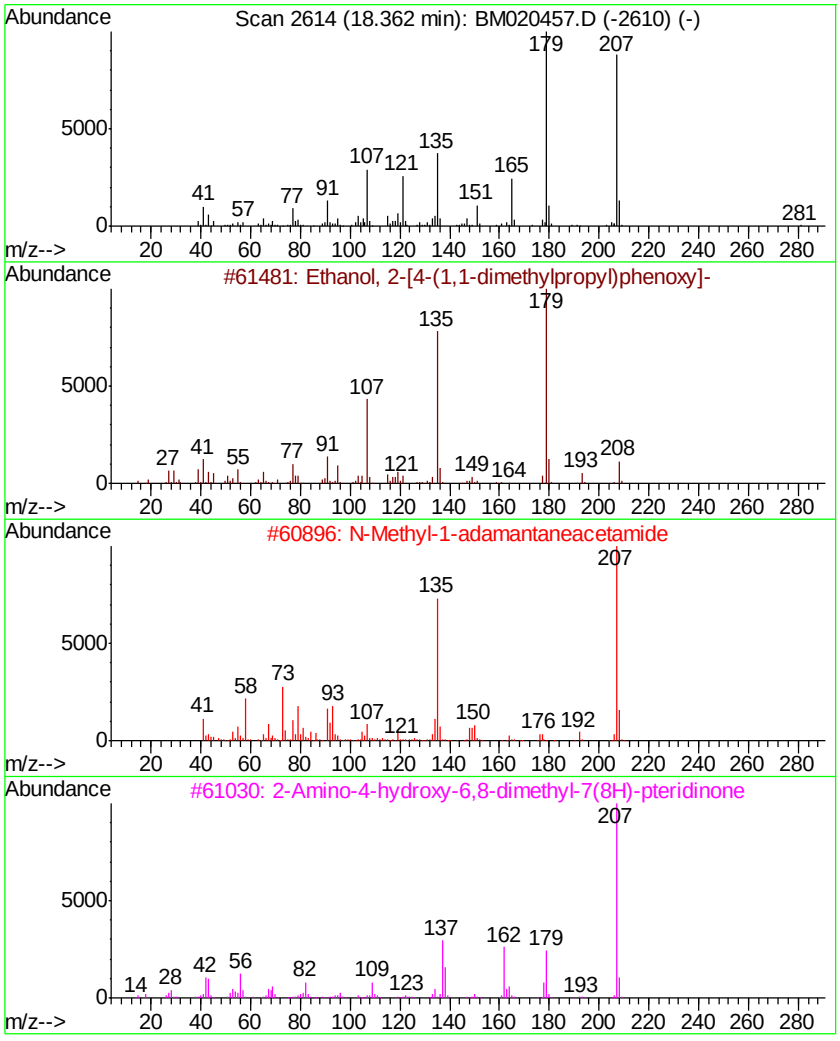
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

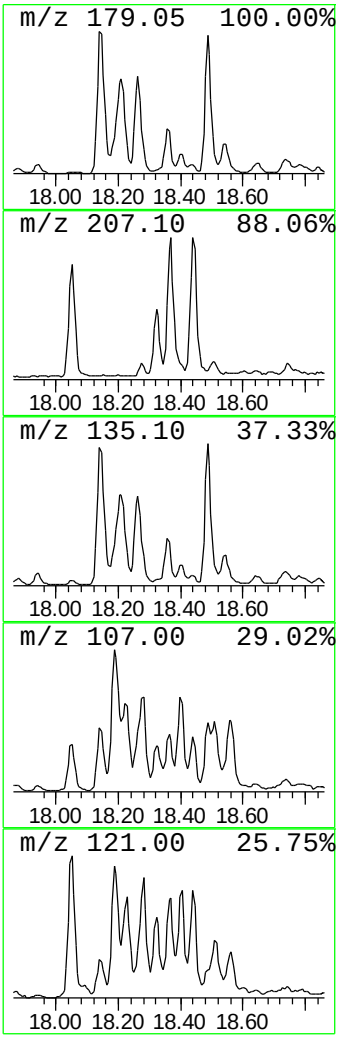
**********

Peak Number 17 unknown-07 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.36 | 9.23 ng/ul | 511103 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-[4-(1,1-dimethylpropy... | 208 | C13H20O2 | 006382-07-6 | 35 |
| 2 | N-Methyl-1-adamantaneacetamide | 207 | C13H21NO | 031897-93-5 | 35 |
| 3 | 2-Amino-4-hydroxy-6,8-dimethyl-7... | 207 | C8H9N5O2 | 025477-64-9 | 35 |
| 4 | Anthracene, 9,10-diethyl-9,10-di... | 236 | C18H20 | 046868-29-5 | 25 |
| 5 | 2,4-Dimethoxyphenyl isocyanate | 179 | C9H9NO3 | 084370-87-6 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

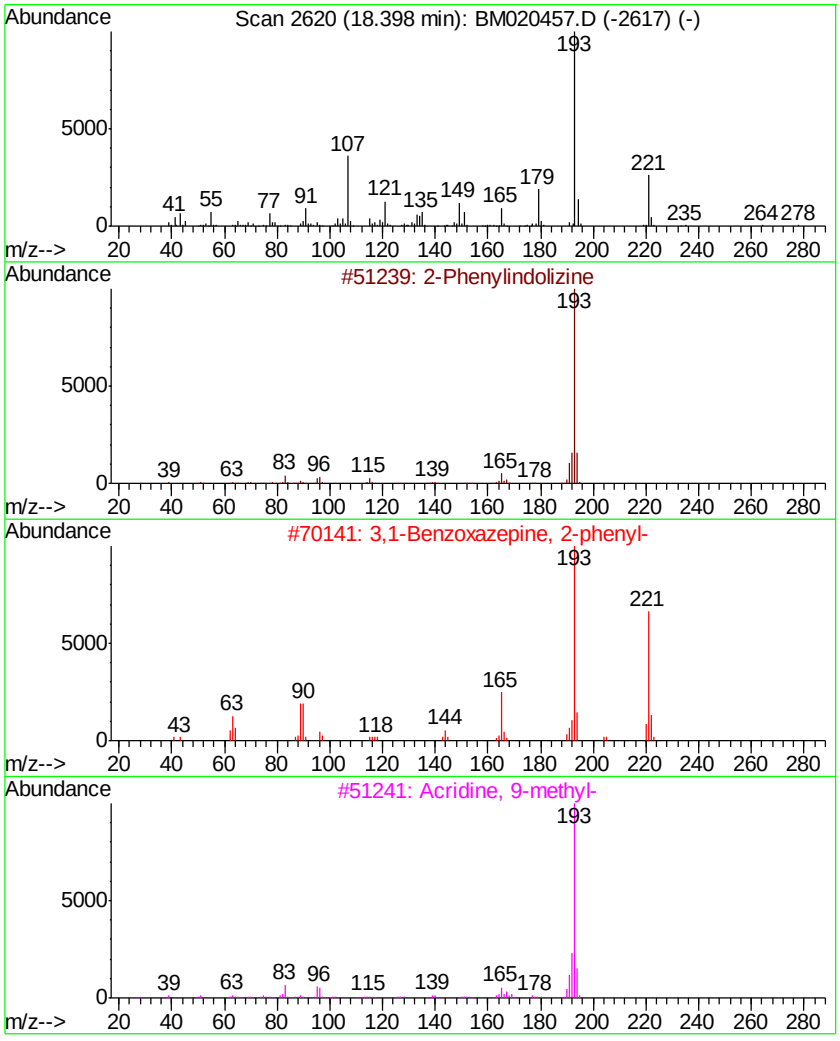
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

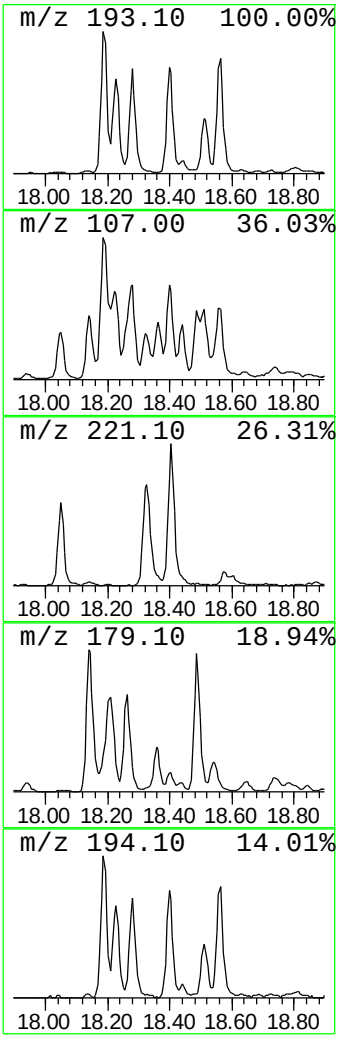
**********

Peak Number 18 unknown-08 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.40 | 12.92 ng/ul | 715532 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Phenylindolizine | 193 | C14H11N | 025379-20-8 | 43 |
| 2 | 3,1-Benzoxazepine, 2-phenyl- | 221 | C15H11NO | 014300-21-1 | 40 |
| 3 | Acridine, 9-methyl- | 193 | C14H11N | 000611-64-3 | 38 |
| 4 | [1,1'-Biphenyl]-4-acetonitrile | 193 | C14H11N | 031603-77-7 | 38 |
| 5 | Methyl 5-acetyl-2-methoxybenzoate | 208 | C11H12O4 | 039971-36-3 | 38 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

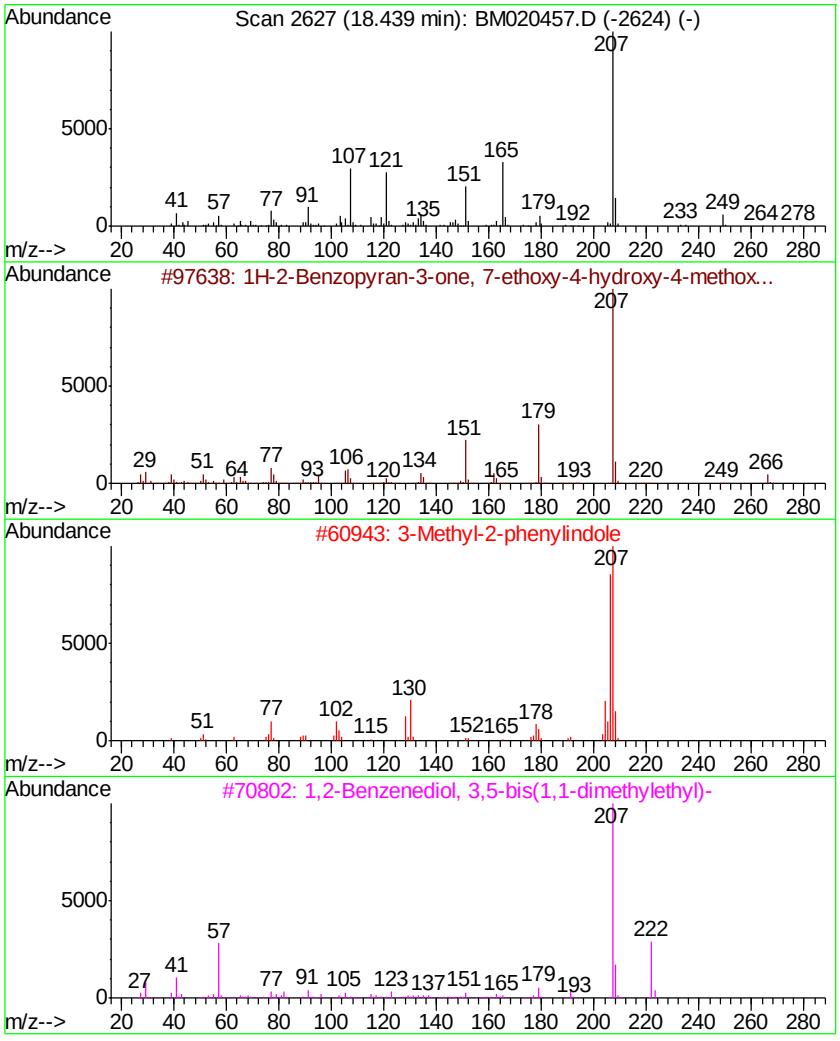
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

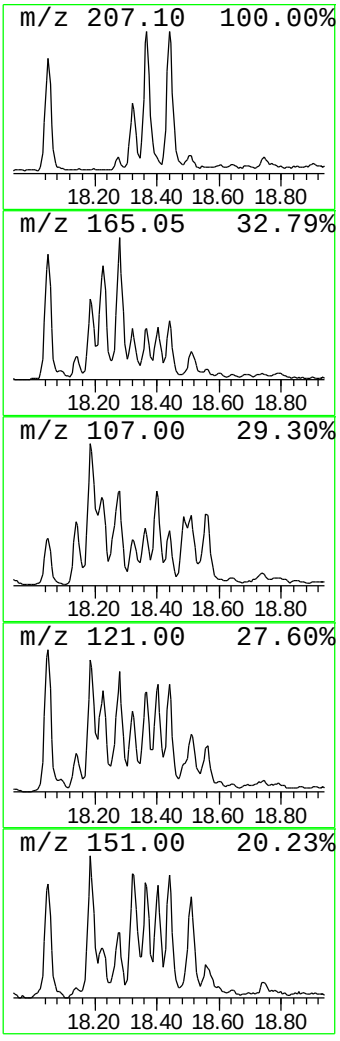
**********

Peak Number 19 1H-2-Benzopyran-3-one, 7-et... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.44 | 6.99 ng/ul | 386983 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-2-Benzopyran-3-one, 7-ethoxy-... | 266 | C13H14O6 | 1000158-14-3 | 50 |
| 2 | 3-Methyl-2-phenylindole | 207 | C15H13N | 010257-92-8 | 43 |
| 3 | 1,2-Benzenediol, 3,5-bis(1,1-dim... | 222 | C14H22O2 | 001020-31-1 | 43 |
| 4 | Brallobarbital | 286 | C10H11BrN2O3 | 000561-86-4 | 38 |
| 5 | 1-Methyl-3-phenylindole | 207 | C15H13N | 030020-98-5 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

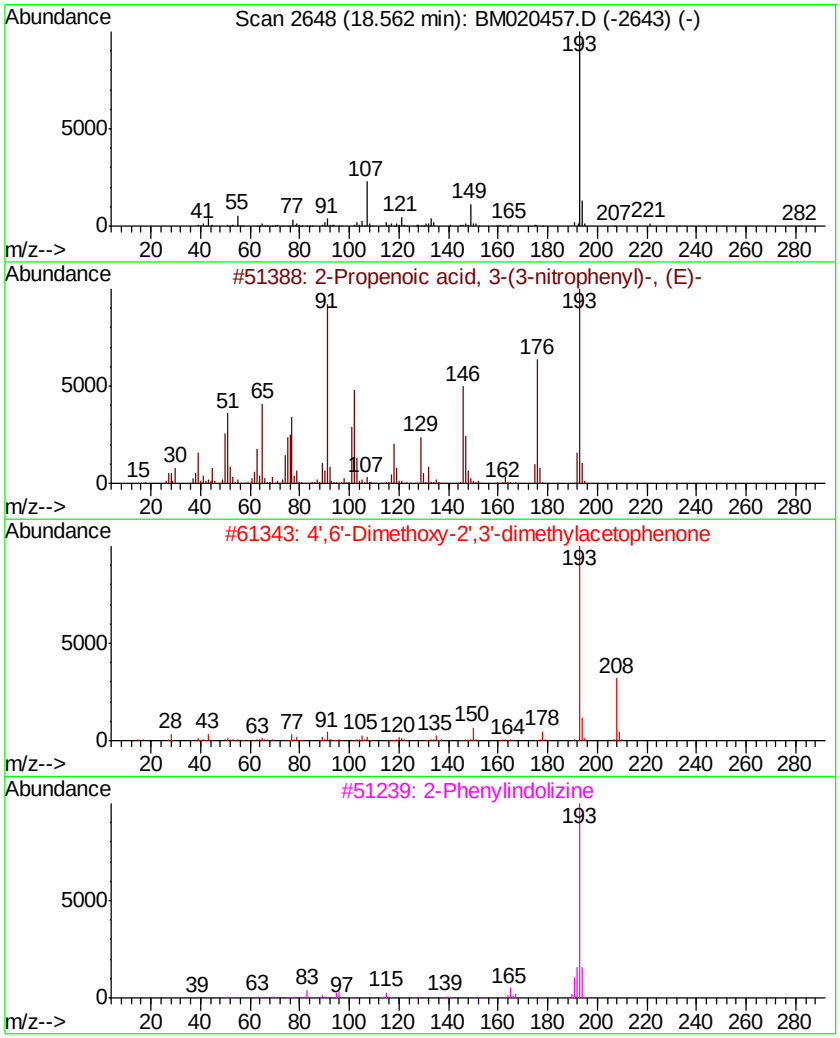
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

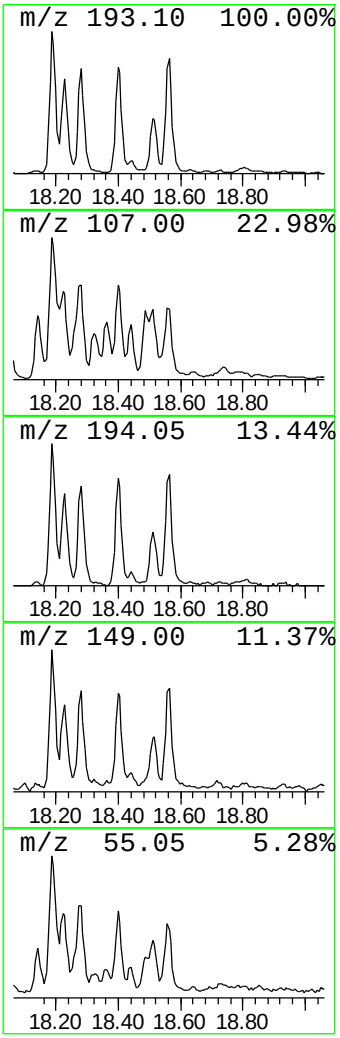
**********

Peak Number 21 2-Propenoic acid, 3-(3-nitr... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.56 | 12.68 ng/ul | 702182 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propenoic acid, 3-(3-nitrophen... | 193 | C9H7NO4 | 001772-76-5 | 52 |
| 2 | 4',6'-Dimethoxy-2',3'-dimethylac... | 208 | C12H16O3 | 1000244-80-3 | 33 |
| 3 | 2-Phenylindolizine | 193 | C14H11N | 025379-20-8 | 33 |
| 4 | 1,3-Dioxolane, 2-(4-methoxypheny... | 194 | C11H14O3 | 006414-32-0 | 10 |
| 5 | 3-Ethoxyphenylacetone hydroxyoxime | 193 | C11H15NO2 | 319914-15-3 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

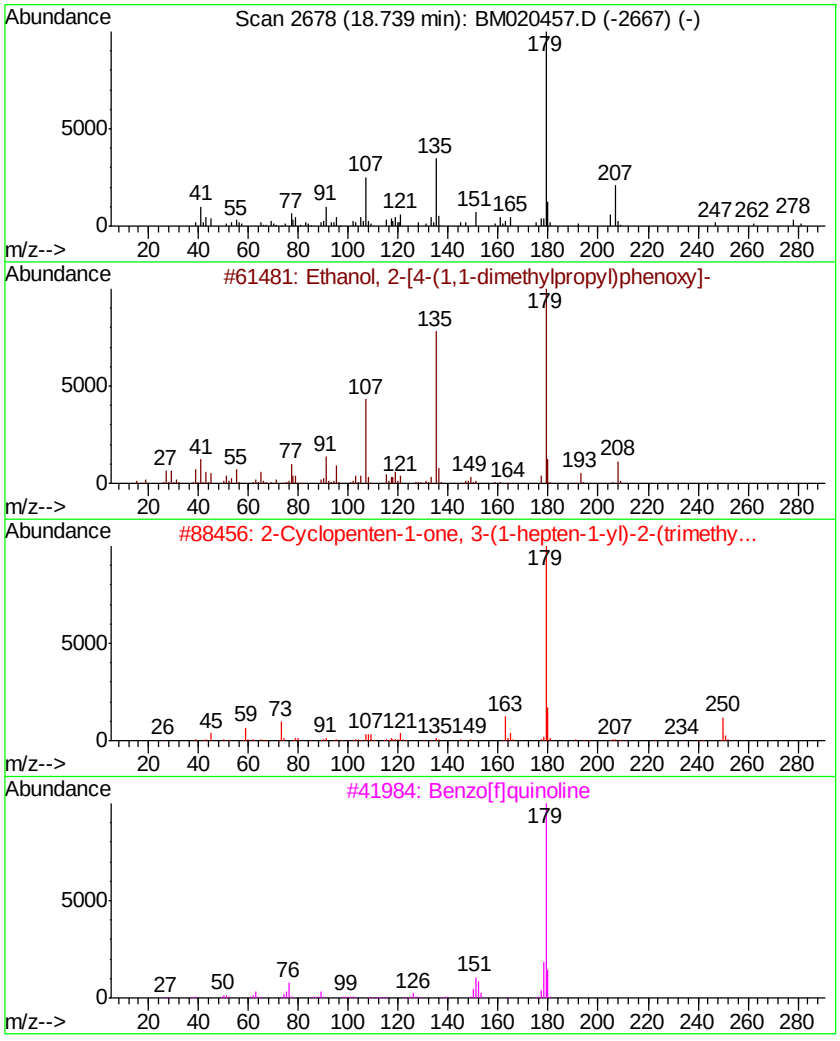
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

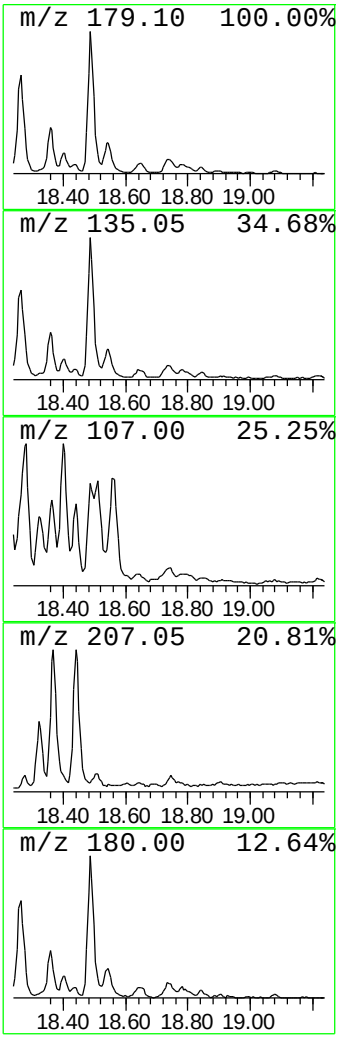
**********

Peak Number 22 Ethanol, 2-[4-(1,1-dimethyl... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.74 | 4.05 ng/ul | 224107 | Phenanthrene-d10 | 17.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-[4-(1,1-dimethylpropy... | 208 | C13H20O2 | 006382-07-6 | 59 |
| 2 | 2-Cyclopenten-1-one, 3-(1-hepten... | 250 | C15H26OSi | 1000159-28-7 | 43 |
| 3 | Benzo[f]quinoline | 179 | C13H9N | 000085-02-9 | 43 |
| 4 | Acridine | 179 | C13H9N | 000260-94-6 | 43 |
| 5 | Anthracene, 9-ethyl-9,10-dihydro- | 208 | C16H16 | 000605-82-3 | 43 |



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Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

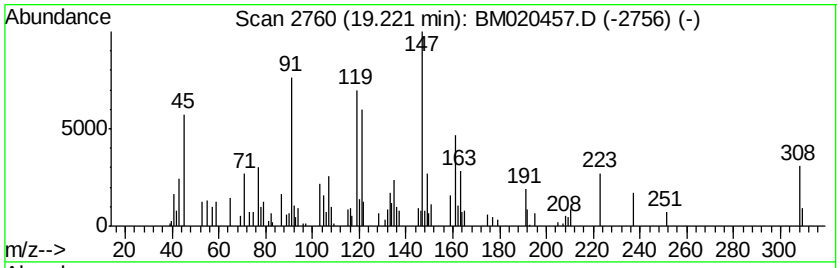
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

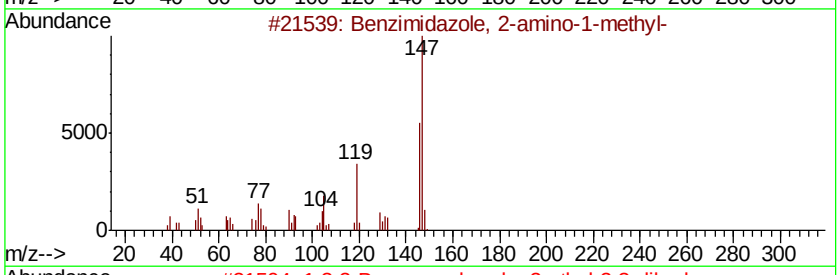
**********

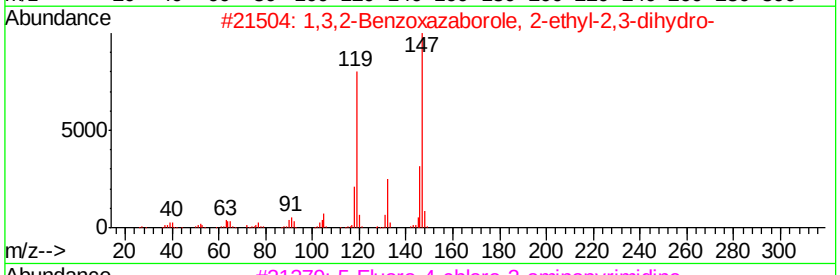
Peak Number 23 unknown-09 Concentration Rank 32

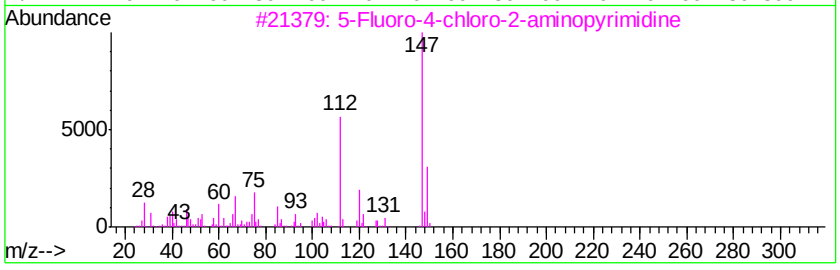
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.22 | 2.35 ng/ul | 130003 | Phenanthrene-d10 | 17.14 |

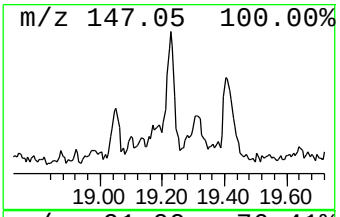
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzimidazole, 2-amino-1-methyl- | 147 | C8H9N3 | 001622-57-7 | 27 |
| 2 | 1,3,2-Benzoxazaborole, 2-ethyl-2... | 147 | C8H10BNO | 129363-62-8 | 27 |
| 3 | 5-Fluoro-4-chloro-2-aminopyrimidine | 147 | C4H3ClFN3 | 001683-75-6 | 22 |
| 4 | 6-Amino-2-methyl-2H-indazole | 147 | C8H9N3 | 050593-30-1 | 22 |
| 5 | 2H-Benzotriazole, 2-ethyl- | 147 | C8H9N3 | 016584-04-6 | 18 |

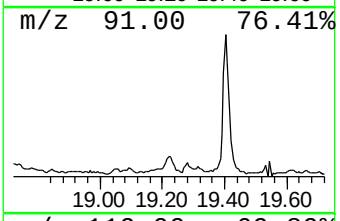


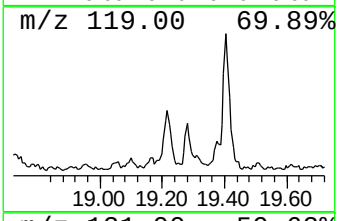



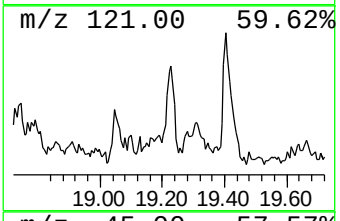



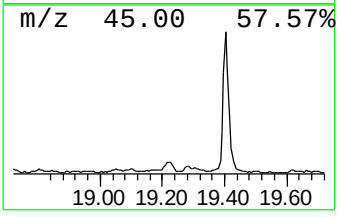



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

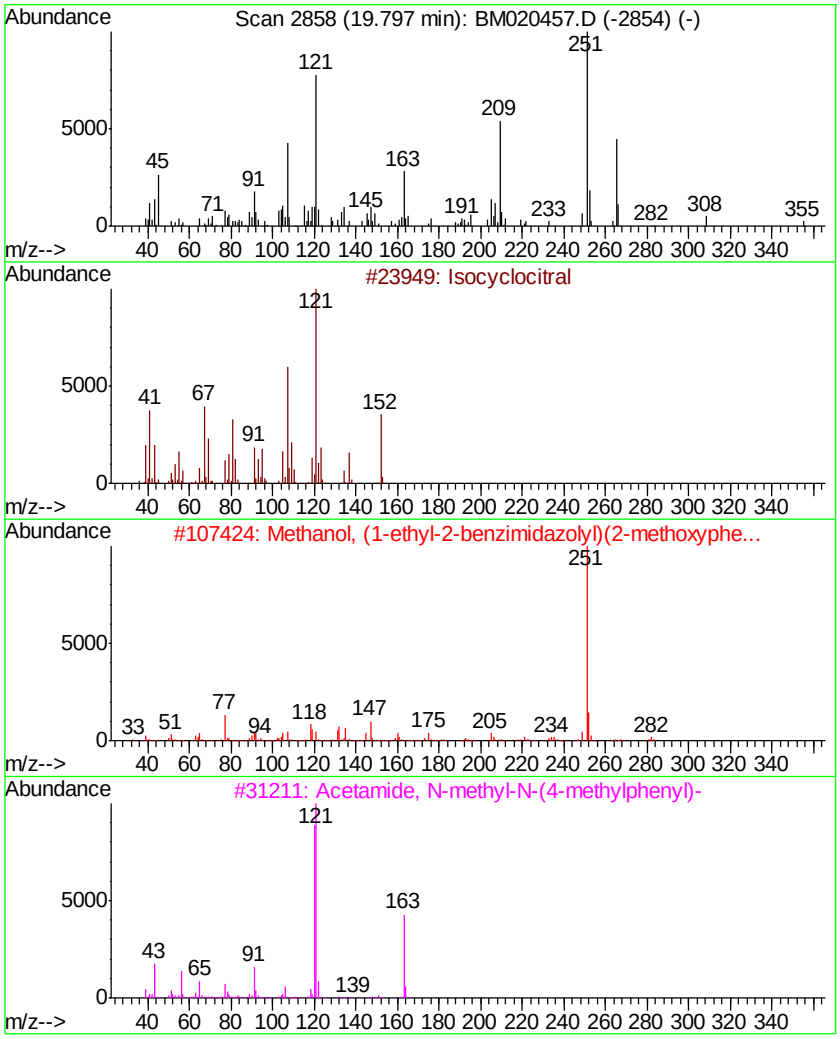
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

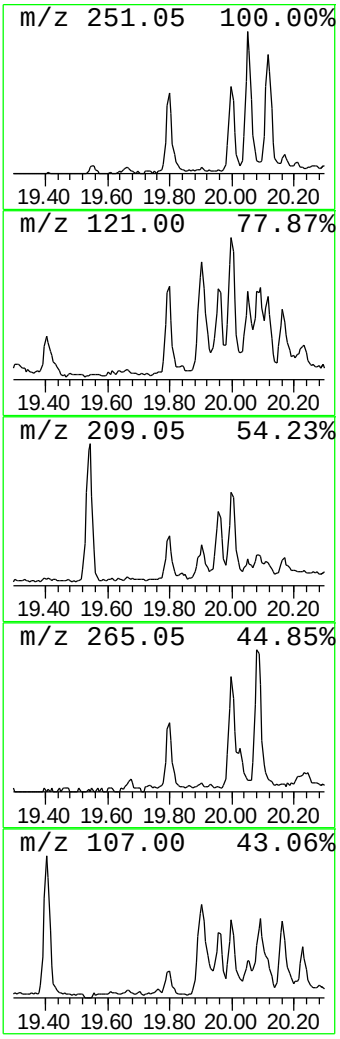
**********

Peak Number 25 unknown-10 Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.80 | 2.46 ng/ul | 157169 | Chrysene-d12 | 21.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isocyclocitral | 152 | C10H16O | 001335-66-6 | 22 |
| 2 | Methanol, (1-ethyl-2-benzimidazo... | 282 | C17H18N2O2 | 292052-56-3 | 22 |
| 3 | Acetamide, N-methyl-N-(4-methylp... | 163 | C10H13NO | 000612-03-3 | 18 |
| 4 | 2,2',4,4',6,6'-Hexamethylbenzoph... | 266 | C19H22O | 005623-45-0 | 18 |
| 5 | 2-Hydrazino-8-hydroxy-4-phenylqu... | 251 | C15H13N3O | 104926-85-4 | 15 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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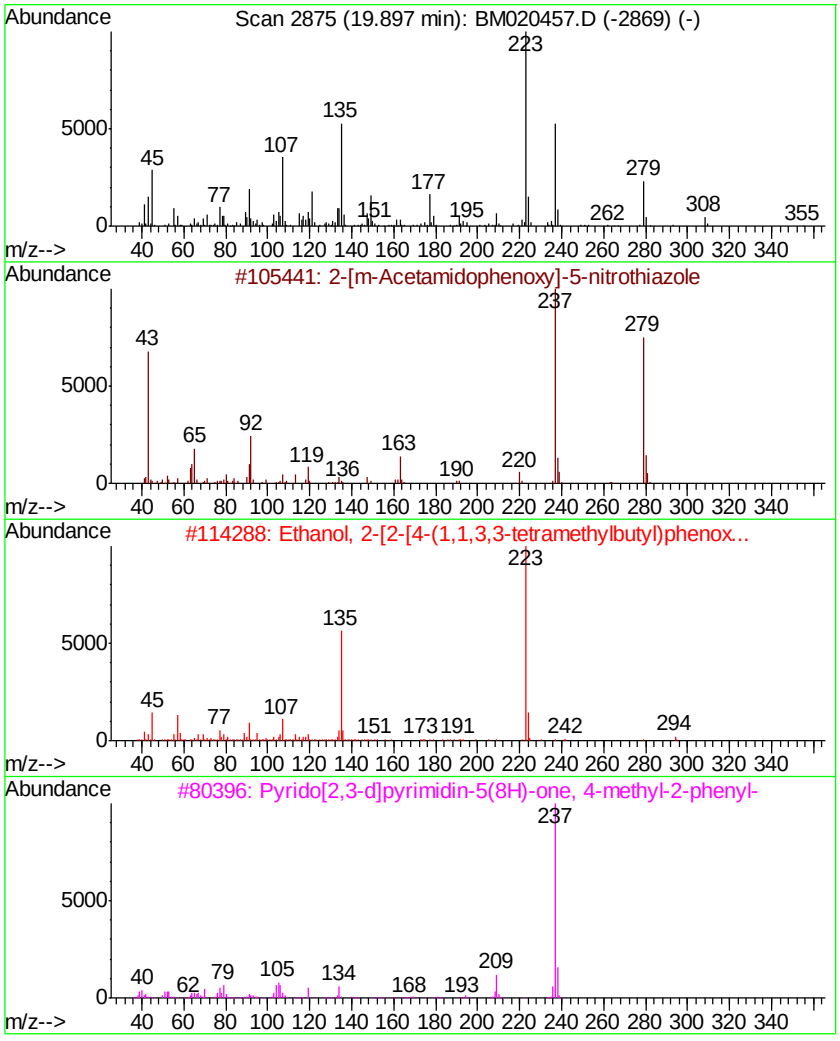
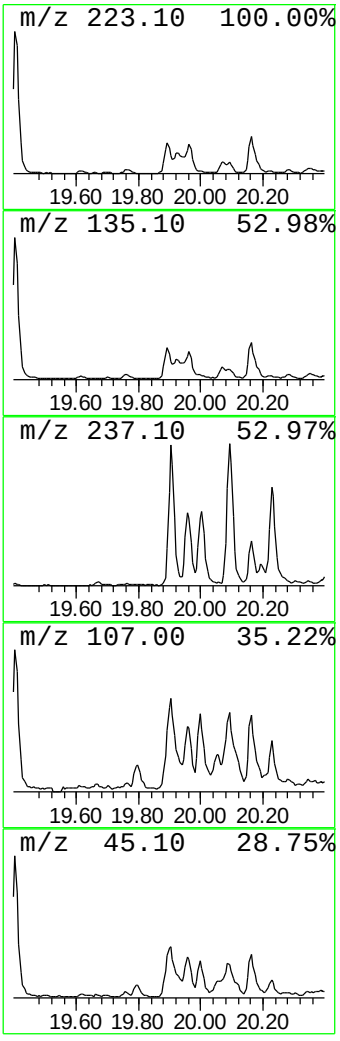
Peak Number 26 unknown-11 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.90 | 17.70 ng/ul | 1131760 | Chrysene-d12 | 21.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-[m-Acetamidophenoxy]-5-nitroth... | 279 | C11H9N3O4S | 1000257-10-1 | 27 |
| 2 | Ethanol, 2-[2-[4-(1,1,3,3-tetram... | 294 | C18H30O3 | 002315-61-9 | 27 |
| 3 | Pyrido[2,3-d]pyrimidin-5(8H)-one... | 237 | C14H11N3O | 161465-98-1 | 15 |
| 4 | Ethyl 3-[3-amino-5-methoxyphenyl... | 223 | C12H17NO3 | 1000213-27-3 | 14 |
| 5 | 6-(Methylamino)phenanthren-3-ol | 223 | C15H13NO | 098033-23-9 | 14 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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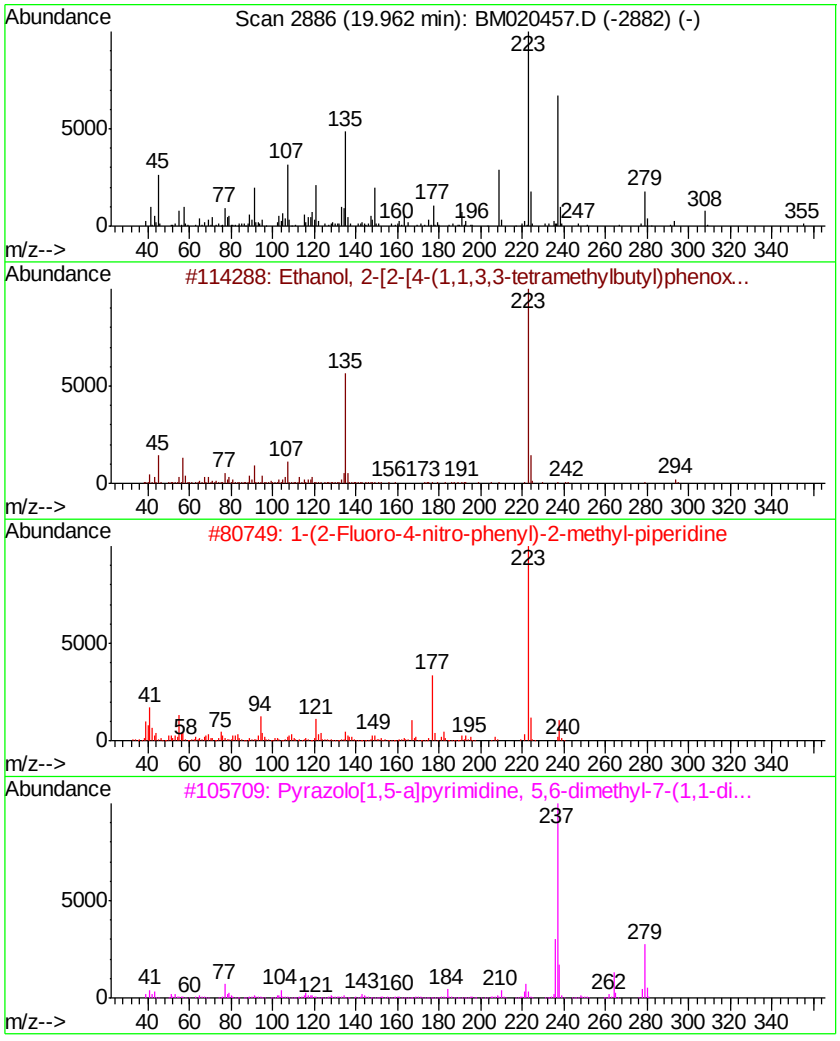
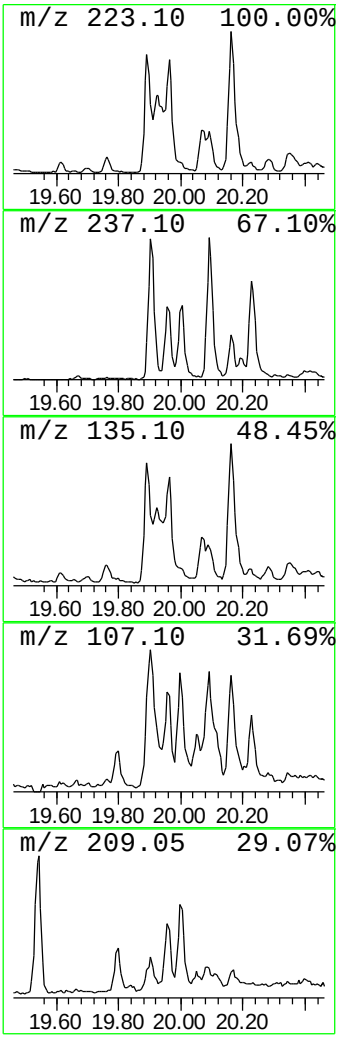
Peak Number 27 unknown-12 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.96 | 9.47 ng/ul | 605799 | Chrysene-d12 | 21.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-[2-[4-(1,1,3,3-tetram... | 294 | C18H30O3 | 002315-61-9 | 38 |
| 2 | 1-(2-Fluoro-4-nitro-phenyl)-2-me... | 238 | C12H15FN2O2 | 1000278-20-9 | 27 |
| 3 | Pyrazolo[1,5-a]pyrimidine, 5,6-d... | 279 | C18H21N3 | 1000273-96-0 | 25 |
| 4 | Ethyl 3-[3-amino-5-methoxyphenyl... | 223 | C12H17NO3 | 1000213-27-3 | 25 |
| 5 | 9-Acridinecarboxylic acid | 223 | C14H9NO2 | 005336-90-3 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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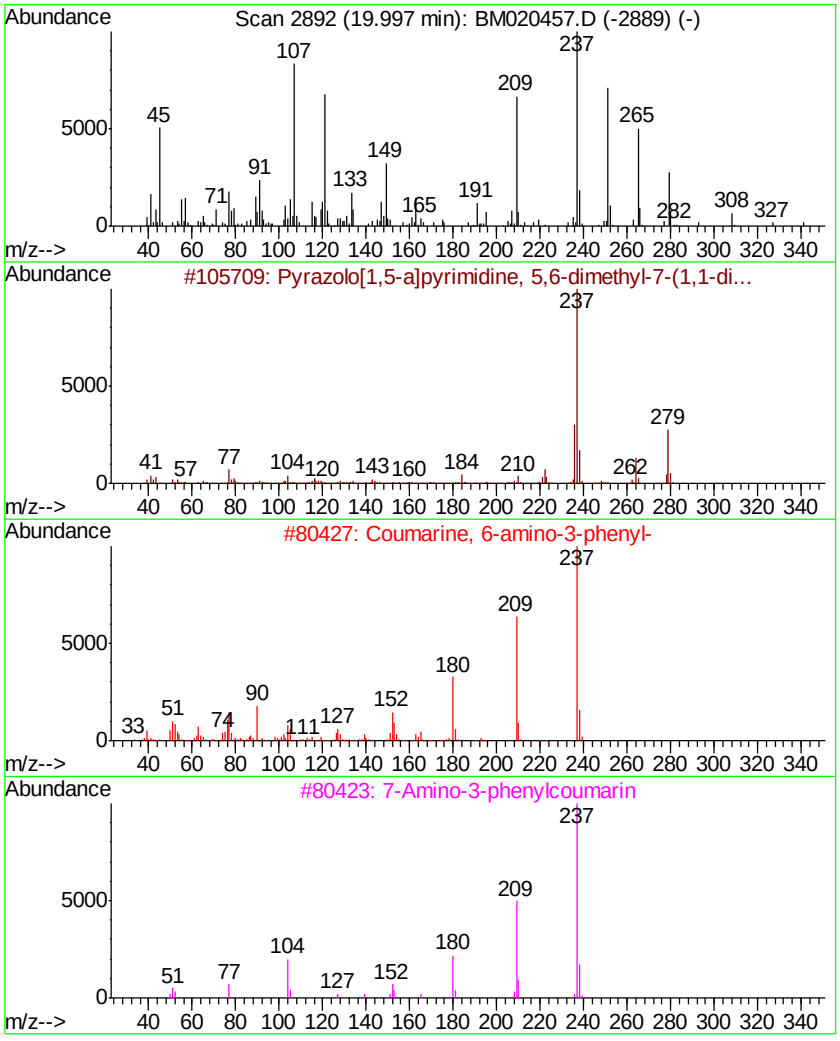
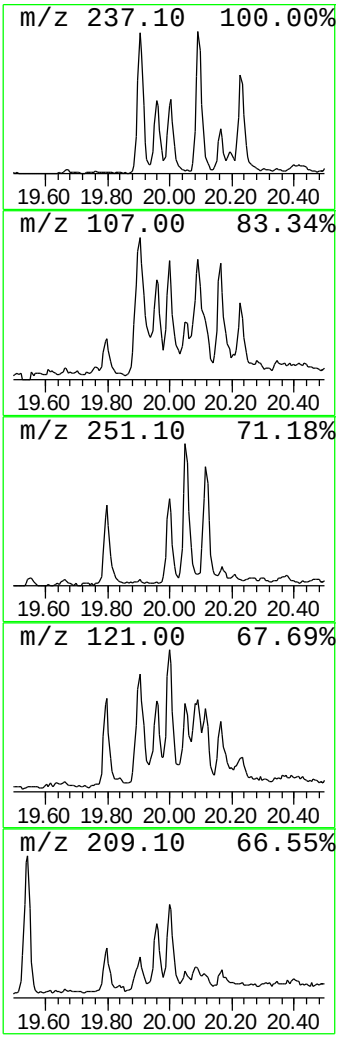
Peak Number 28 unknown-13 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.00 | 7.01 ng/ul | 448520 | Chrysene-d12 | 21.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrazolo[1,5-a]pyrimidine, 5,6-d... | 279 | C18H21N3 | 1000273-96-0 | 35 |
| 2 | Coumarine, 6-amino-3-phenyl- | 237 | C15H11NO2 | 021408-16-2 | 25 |
| 3 | 7-Amino-3-phenylcoumarin | 237 | C15H11NO2 | 004108-61-6 | 25 |
| 4 | 2-t-Butylxanthen-9-one | 252 | C17H16O2 | 040305-52-0 | 18 |
| 5 | Acetamide, N-methyl-N-phenyl- | 149 | C9H11NO | 000579-10-2 | 15 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

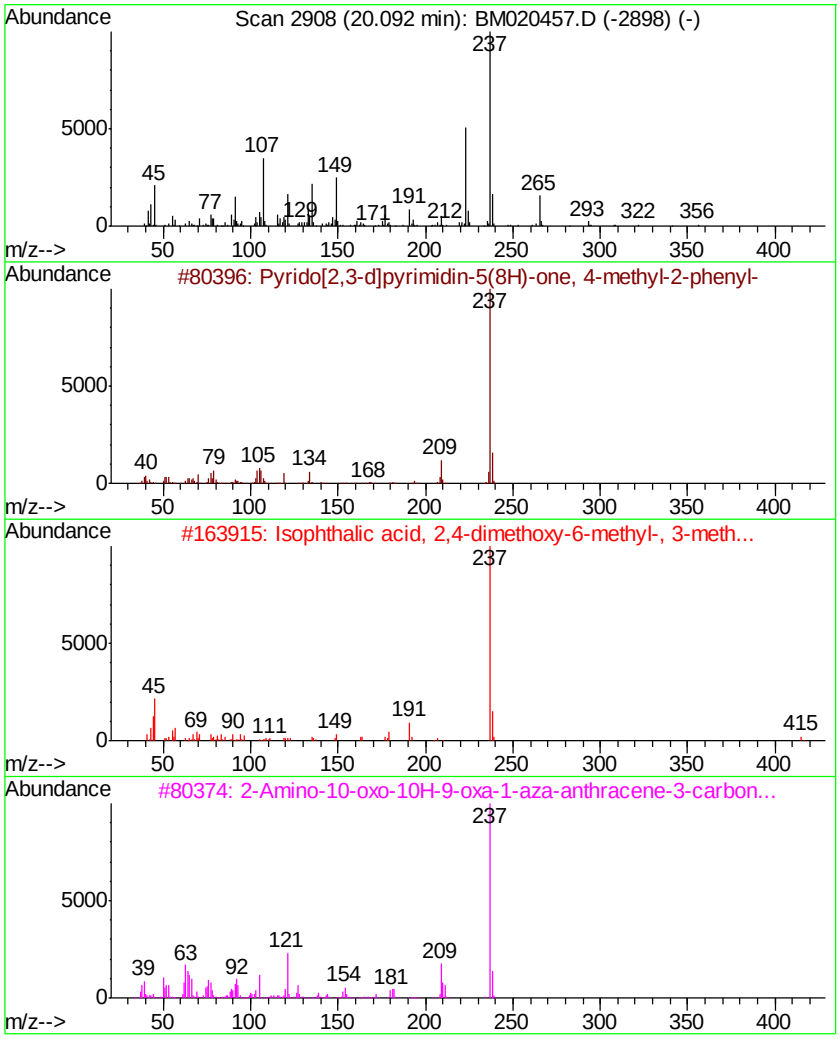
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

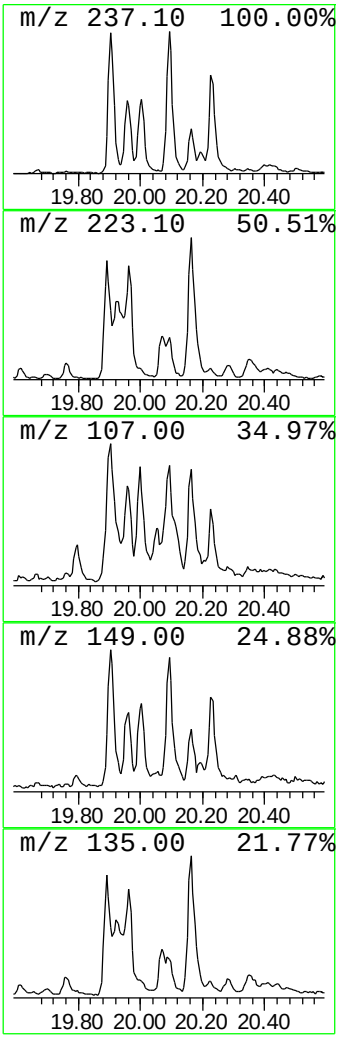
**********

Peak Number 29 unknown-14 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.09 | 13.55 ng/ul | 866117 | Chrysene-d12 | 21.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrido[2,3-d]pyrimidin-5(8H)-one... | 237 | C14H11N3O | 161465-98-1 | 27 |
| 2 | Isophthalic acid, 2,4-dimethoxy-... | 446 | C23H26O9 | 019314-77-3 | 25 |
| 3 | 2-Amino-10-oxo-10H-9-oxa-1-aza-a... | 237 | C13H7N3O2 | 061424-81-5 | 25 |
| 4 | 3,6-Acridinediamine, 2,7-dimethyl- | 237 | C15H15N3 | 000092-26-2 | 16 |
| 5 | 3-Hydroxy-1-methyl-5-phenyl-1,3-... | 266 | C16H14N2O2 | 025177-93-9 | 16 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

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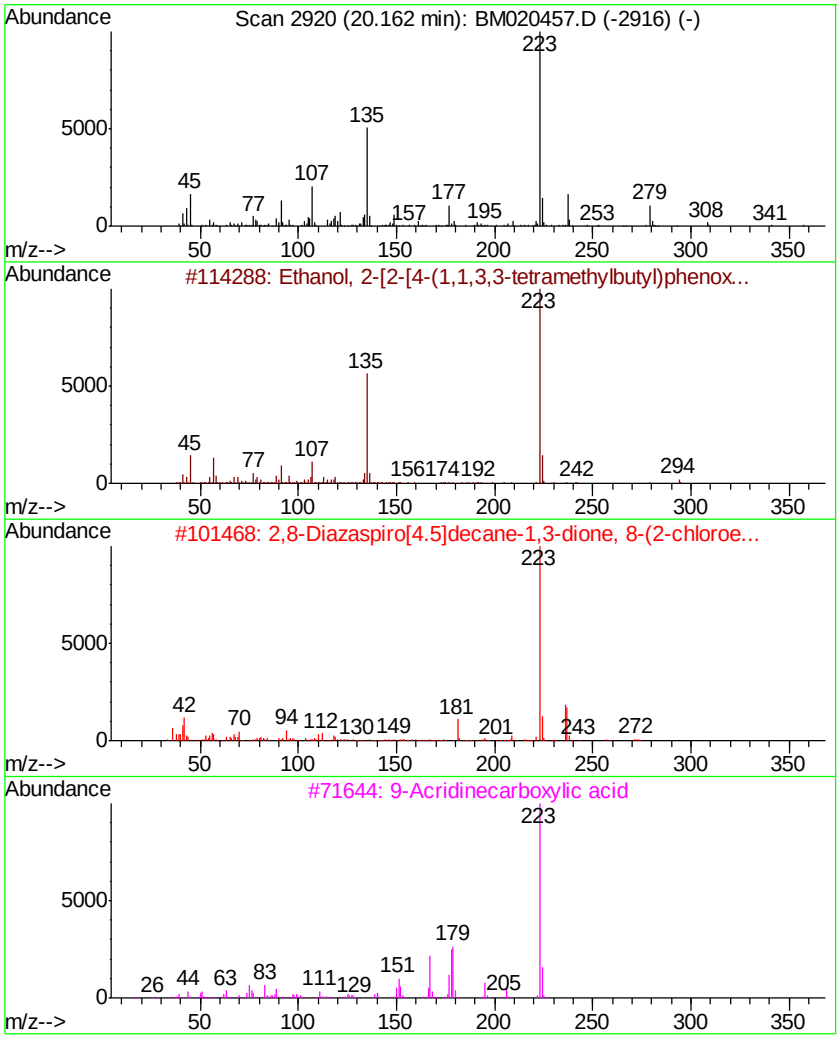
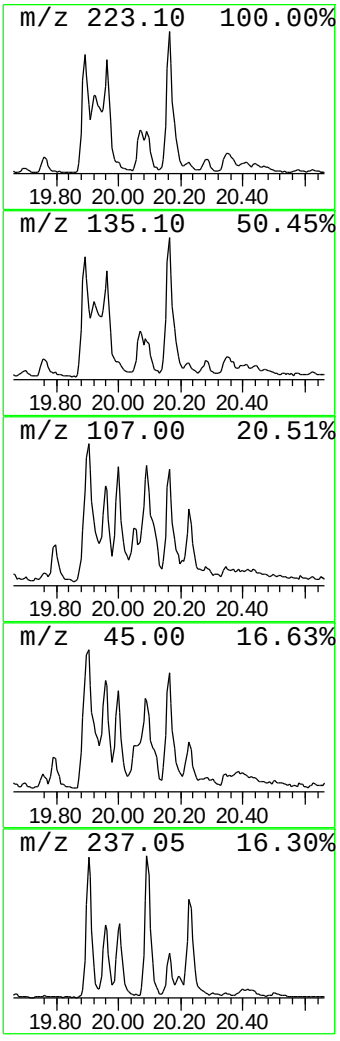
Peak Number 30 Ethanol, 2-[2-[4-(1,1,3,3-t... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.16 | 9.89 ng/ul | 632480 | Chrysene-d12 | 21.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-[2-[4-(1,1,3,3-tetram... | 294 | C18H30O3 | 002315-61-9 | 68 |
| 2 | 2,8-Diazaspiro[4.5]decane-1,3-di... | 272 | C13H21ClN2O2 | 132168-96-8 | 43 |
| 3 | 9-Acridinecarboxylic acid | 223 | C14H9NO2 | 005336-90-3 | 32 |
| 4 | 9-Acridinecarboxylic acid | 223 | C14H9NO2 | 005336-90-3 | 32 |
| 5 | Ketoprofen di-methyl derivative | 282 | C18H18O3 | 1000137-08-9 | 25 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM052019\
Data File : BM020457.D
Acq On : 21 May 2019 09:38
Operator : JU/SJ
Sample : K2788-15
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** A51A6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Phenol, 4-(1,1,3,... | 16.21 | 9.4 | ng/ul | 520908 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-01 | 16.27 | 14.5 | ng/ul | 805342 | 4 | 17.14 | 1107400 | 20.0 |
| Phenol, 4-(1,1-di... | 16.33 | 9.6 | ng/ul | 529464 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-02 | 16.37 | 3.9 | ng/ul | 214528 | 4 | 17.14 | 1107400 | 20.0 |
| Adenine | 16.44 | 2.5 | ng/ul | 136195 | 4 | 17.14 | 1107400 | 20.0 |
| Benzenepropanoic ... | 16.53 | 4.1 | ng/ul | 225361 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-03 | 16.63 | 2.7 | ng/ul | 147886 | 4 | 17.14 | 1107400 | 20.0 |
| 2-Methyl-4-hydrox... | 16.67 | 2.7 | ng/ul | 151555 | 4 | 17.14 | 1107400 | 20.0 |
| 1,3-Dioxolane, 2-... | 17.49 | 35.9 | ng/ul | 1988840 | 4 | 17.14 | 1107400 | 20.0 |
| n-Hexadecanoic acid | 18.02 | 2.1 | ng/ul | 117313 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-04 | 18.05 | 10.7 | ng/ul | 589582 | 4 | 17.14 | 1107400 | 20.0 |
| 2-(4-Formyl-pheno... | 18.14 | 19.4 | ng/ul | 1075460 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-05 | 18.19 | 23.3 | ng/ul | 1291860 | 4 | 17.14 | 1107400 | 20.0 |
| 1-Acetyl-5-methyl... | 18.28 | 20.4 | ng/ul | 1129030 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-06 | 18.32 | 4.7 | ng/ul | 261175 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-07 | 18.36 | 9.2 | ng/ul | 511103 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-08 | 18.40 | 12.9 | ng/ul | 715532 | 4 | 17.14 | 1107400 | 20.0 |
| 1H-2-Benzopyran-3... | 18.44 | 7.0 | ng/ul | 386983 | 4 | 17.14 | 1107400 | 20.0 |
| 2-Propenoic acid,... | 18.56 | 12.7 | ng/ul | 702182 | 4 | 17.14 | 1107400 | 20.0 |
| Ethanol, 2-[4-(1,... | 18.74 | 4.0 | ng/ul | 224107 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-09 | 19.22 | 2.4 | ng/ul | 130003 | 4 | 17.14 | 1107400 | 20.0 |
| unknown-10 | 19.80 | 2.5 | ng/ul | 157169 | 5 | 21.33 | 1278790 | 20.0 |
| unknown-11 | 19.90 | 17.7 | ng/ul | 1131760 | 5 | 21.33 | 1278790 | 20.0 |
| unknown-12 | 19.96 | 9.5 | ng/ul | 605799 | 5 | 21.33 | 1278790 | 20.0 |
| unknown-13 | 20.00 | 7.0 | ng/ul | 448520 | 5 | 21.33 | 1278790 | 20.0 |
| unknown-14 | 20.09 | 13.6 | ng/ul | 866117 | 5 | 21.33 | 1278790 | 20.0 |
| Ethanol, 2-[2-[4-... | 20.16 | 9.9 | ng/ul | 632480 | 5 | 21.33 | 1278790 | 20.0 |