LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
Data File : BM013441.D
Acq On : 15 Dec 2017 16:08
Operator : SJ/JU
Sample : I6758-11DL 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F9B12DL

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-BM113017.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 | 6.857 | 635 | 641 | 650 | rBV2 | 108906 | 202734 | 4.89% | 0.519% |
| 2 | 7.016 | 663 | 668 | 677 | rVB | 90950 | 145593 | 3.51% | 0.372% |
| 3 | 7.210 | 695 | 701 | 711 | rVB | 120560 | 203289 | 4.90% | 0.520% |
| 4 | 7.675 | 774 | 780 | 790 | rBV | 785292 | 1251287 | 30.17% | 3.201% |
| 5 | 8.210 | 863 | 871 | 877 | rBV3 | 39524 | 77254 | 1.86% | 0.198% |
| 6 | 8.386 | 895 | 901 | 910 | rBV | 136271 | 238770 | 5.76% | 0.611% |
| 7 | 8.828 | 970 | 976 | 985 | rVB | 115173 | 199729 | 4.82% | 0.511% |
| 8 | 9.545 | 1093 | 1098 | 1106 | rBV3 | 89899 | 156628 | 3.78% | 0.401% |
| 9 | 10.086 | 1183 | 1190 | 1199 | rBV2 | 131277 | 243052 | 5.86% | 0.622% |
| 10 | 10.451 | 1245 | 1252 | 1259 | rBV | 1076706 | 1825555 | 44.02% | 4.670% |
| 11 | 10.604 | 1273 | 1278 | 1285 | rBV2 | 47359 | 93823 | 2.26% | 0.240% |
| 12 | 11.992 | 1505 | 1514 | 1520 | rBV6 | 27748 | 67161 | 1.62% | 0.172% |
| 13 | 13.733 | 1803 | 1810 | 1814 | rBV | 280466 | 409501 | 9.87% | 1.047% |
| 14 | 13.774 | 1814 | 1817 | 1826 | rVB3 | 75414 | 138380 | 3.34% | 0.354% |
| 15 | 14.010 | 1847 | 1857 | 1859 | rBV | 321856 | 505742 | 12.20% | 1.294% |
| 16 | 14.039 | 1859 | 1862 | 1874 | rVB | 382573 | 571095 | 13.77% | 1.461% |
| 17 | 14.316 | 1897 | 1909 | 1918 | rBV2 | 1564024 | 2474268 | 59.66% | 6.329% |
| 18 | 14.545 | 1942 | 1948 | 1957 | rBV3 | 60428 | 132922 | 3.21% | 0.340% |
| 19 | 15.186 | 2052 | 2057 | 2062 | rBV4 | 47319 | 84696 | 2.04% | 0.217% |
| 20 | 15.315 | 2073 | 2079 | 2085 | rBV | 413505 | 593548 | 14.31% | 1.518% |
| 21 | 15.445 | 2097 | 2101 | 2106 | rBV2 | 74906 | 121783 | 2.94% | 0.312% |
| 22 | 15.586 | 2118 | 2125 | 2132 | rVB8 | 44274 | 94696 | 2.28% | 0.242% |
| 23 | 16.045 | 2197 | 2203 | 2213 | rBV4 | 181730 | 455768 | 10.99% | 1.166% |
| 24 | 16.651 | 2298 | 2306 | 2309 | rBV6 | 36169 | 73343 | 1.77% | 0.188% |
| 25 | 16.721 | 2313 | 2318 | 2325 | rVV3 | 237776 | 359283 | 8.66% | 0.919% |
| 26 | 16.833 | 2334 | 2337 | 2341 | rBV3 | 72591 | 91181 | 2.20% | 0.233% |
| 27 | 16.886 | 2342 | 2346 | 2353 | rVB3 | 102012 | 163987 | 3.95% | 0.419% |
| 28 | 16.974 | 2357 | 2361 | 2367 | rBV9 | 26107 | 55856 | 1.35% | 0.143% |
| 29 | 17.068 | 2371 | 2377 | 2382 | rBV | 2101813 | 2937328 | 70.83% | 7.513% |
| 30 | 17.109 | 2382 | 2384 | 2388 | rVV2 | 65424 | 75686 | 1.83% | 0.194% |
| 31 | 17.162 | 2388 | 2393 | 2396 | rVV2 | 430659 | 643516 | 15.52% | 1.646% |
| 32 | 17.198 | 2396 | 2399 | 2406 | rVV | 451111 | 646615 | 15.59% | 1.654% |
| 33 | 17.262 | 2407 | 2410 | 2416 | rVB3 | 44782 | 65632 | 1.58% | 0.168% |
| 34 | 17.474 | 2442 | 2446 | 2454 | rVB2 | 68182 | 112081 | 2.70% | 0.287% |

LSC Area Percent Report

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Data File : BM013441.D
Acq On : 15 Dec 2017 16:08
Operator : SJ/JU
Sample : I6758-11DL 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F9B12DL

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-BM113017.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 17.574 | 2460 | 2463 | 2466 | rVB | 80474 | 76413 | 1.84% | 0.195% |
| 36 | 17.745 | 2489 | 2492 | 2497 | rVB2 | 65237 | 82901 | 2.00% | 0.212% |
| 37 | 17.968 | 2527 | 2530 | 2533 | rBV4 | 53958 | 69508 | 1.68% | 0.178% |
| 38 | 18.068 | 2544 | 2547 | 2553 | rBV | 83873 | 138354 | 3.34% | 0.354% |
| 39 | 18.145 | 2556 | 2560 | 2569 | rVB5 | 82289 | 152588 | 3.68% | 0.390% |
| 40 | 18.268 | 2577 | 2581 | 2584 | rBV | 87694 | 116797 | 2.82% | 0.299% |
| 41 | 18.339 | 2589 | 2593 | 2597 | rBV | 89861 | 139492 | 3.36% | 0.357% |
| 42 | 18.492 | 2615 | 2619 | 2622 | rBV3 | 89818 | 102514 | 2.47% | 0.262% |
| 43 | 19.003 | 2703 | 2706 | 2712 | rVB | 194908 | 276029 | 6.66% | 0.706% |
| 44 | 19.127 | 2723 | 2727 | 2733 | rVB | 650310 | 842584 | 20.32% | 2.155% |
| 45 | 19.280 | 2749 | 2753 | 2758 | rVB2 | 150161 | 217381 | 5.24% | 0.556% |
| 46 | 19.462 | 2779 | 2784 | 2786 | rBV2 | 579662 | 782923 | 18.88% | 2.003% |
| 47 | 19.492 | 2786 | 2789 | 2798 | rVB | 829634 | 1213842 | 29.27% | 3.105% |
| 48 | 19.739 | 2827 | 2831 | 2837 | rVB | 320141 | 442347 | 10.67% | 1.131% |
| 49 | 19.821 | 2841 | 2845 | 2850 | rVV4 | 104850 | 207305 | 5.00% | 0.530% |
| 50 | 20.292 | 2922 | 2925 | 2929 | rBV2 | 87979 | 128965 | 3.11% | 0.330% |
| 51 | 20.503 | 2959 | 2961 | 2966 | rVB3 | 109971 | 144998 | 3.50% | 0.371% |
| 52 | 20.739 | 2999 | 3001 | 3007 | rVB2 | 174794 | 239957 | 5.79% | 0.614% |
| 53 | 20.980 | 3039 | 3042 | 3047 | rVB2 | 298580 | 397066 | 9.57% | 1.016% |
| 54 | 21.256 | 3084 | 3089 | 3094 | rBV | 2841290 | 4146997 | 100.00% | 10.608% |
| 55 | 21.292 | 3094 | 3095 | 3106 | rVB | 567900 | 635101 | 15.31% | 1.625% |
| 56 | 21.421 | 3113 | 3117 | 3122 | rBV3 | 140172 | 297509 | 7.17% | 0.761% |
| 57 | 21.927 | 3200 | 3203 | 3207 | rBV2 | 193686 | 206631 | 4.98% | 0.529% |
| 58 | 22.815 | 3349 | 3354 | 3360 | rBV | 1295864 | 2794659 | 67.39% | 7.148% |
| 59 | 22.986 | 3379 | 3383 | 3390 | rVB | 399290 | 650169 | 15.68% | 1.663% |
| 60 | 23.291 | 3430 | 3435 | 3440 | rBV | 653258 | 1144256 | 27.59% | 2.927% |
| 61 | 23.338 | 3441 | 3443 | 3446 | rVV2 | 211716 | 253911 | 6.12% | 0.649% |
| 62 | 23.386 | 3446 | 3451 | 3458 | rVB | 799336 | 1446459 | 34.88% | 3.700% |
| 63 | 23.480 | 3461 | 3467 | 3473 | rBV | 1204006 | 2273494 | 54.82% | 5.815% |
| 64 | 25.715 | 3839 | 3847 | 3861 | rVB3 | 730384 | 2405355 | 58.00% | 6.153% |
| 65 | 26.391 | 3954 | 3962 | 3972 | rVB2 | 547113 | 1556180 | 37.53% | 3.981% |

Sum of corrected areas: 39094467

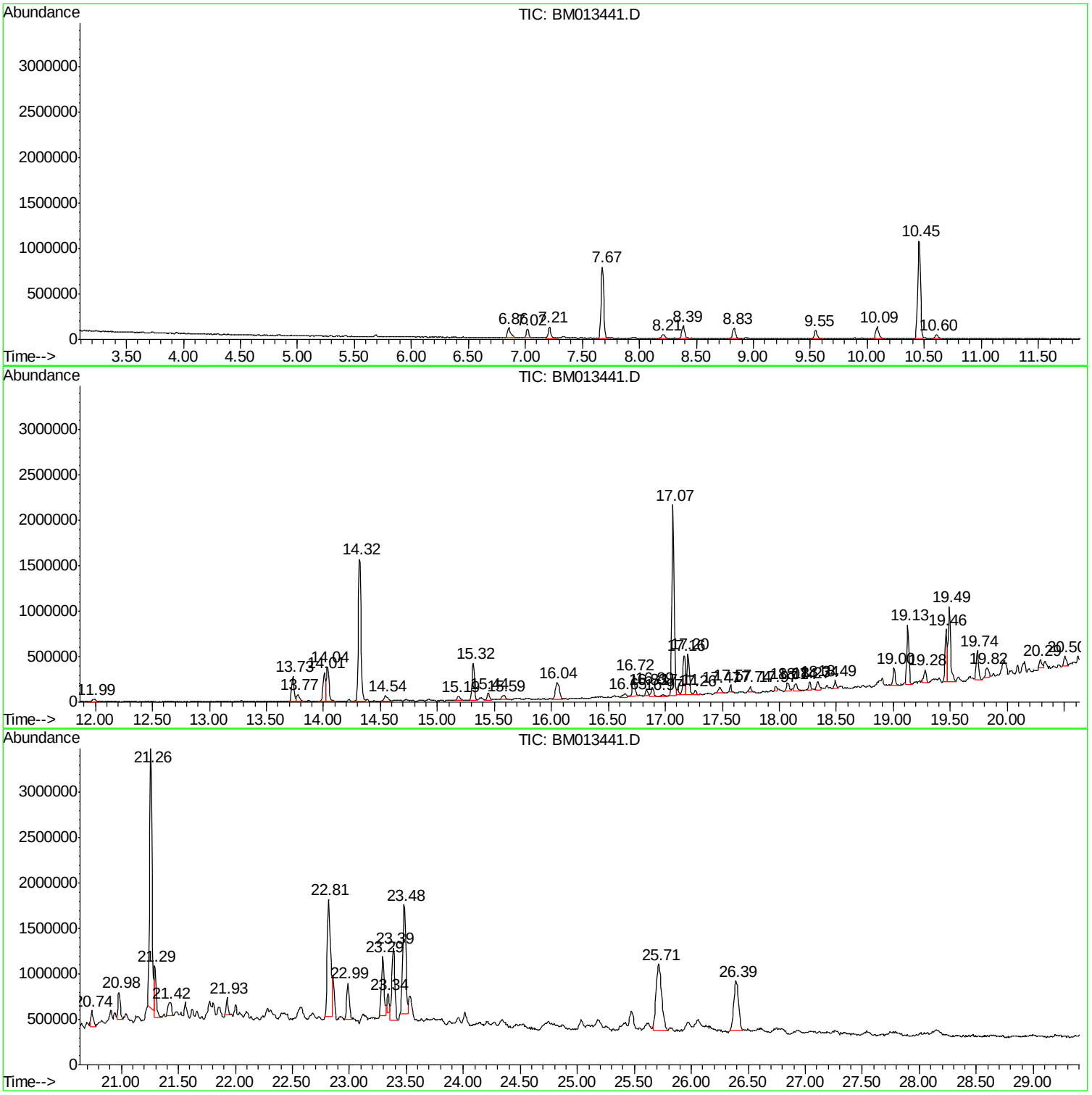
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
Data File : BM013441.D
Acq On : 15 Dec 2017 16:08
Operator : SJ/JU
Sample : I6758-11DL 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F9B12DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

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



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
Data File : BM013441.D
Acq On : 15 Dec 2017 16:08
Operator : SJ/JU
Sample : I6758-11DL 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F9B12DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

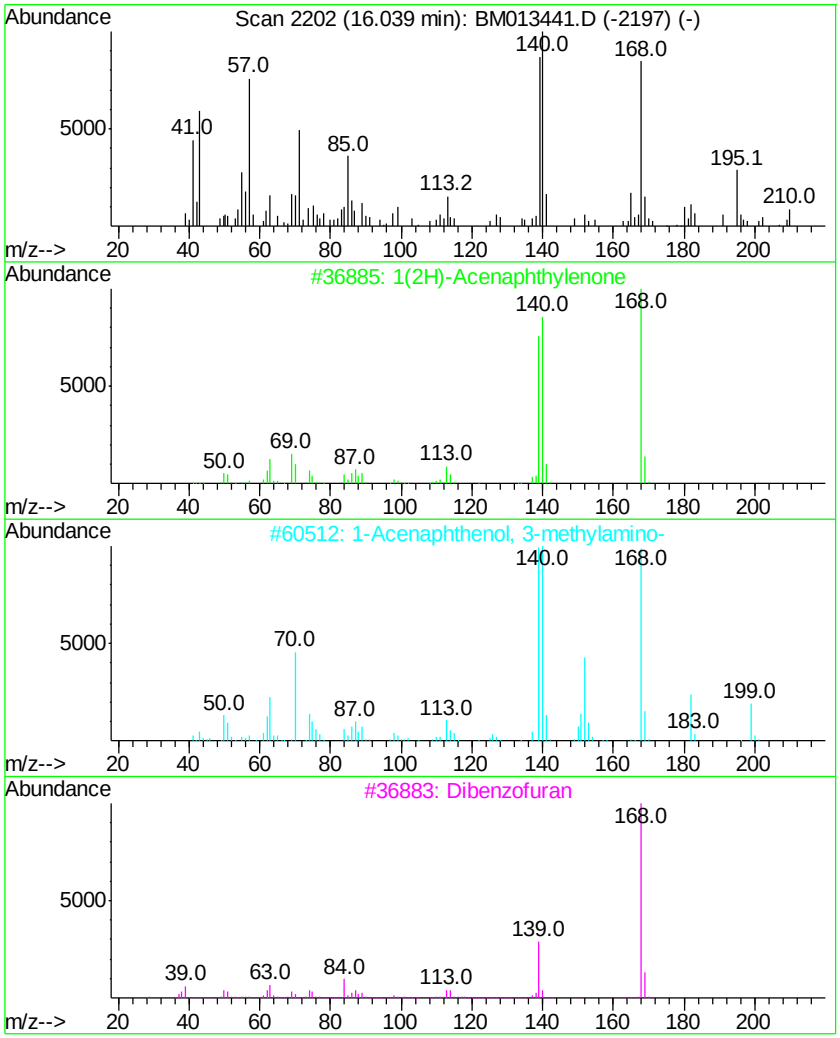
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

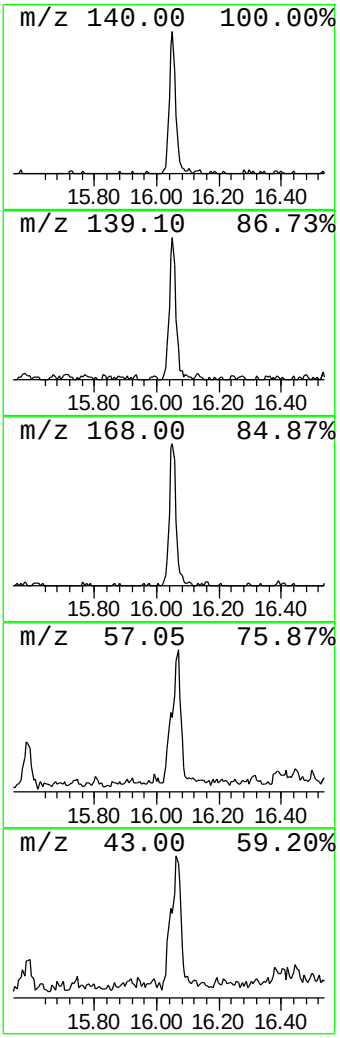
**********

Peak Number 1 1(2H)-Acenaphthylenone Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.04 | 3.10 ng/ul | 455768 | Phenanthrene-d10 | 17.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1(2H)-Acenaphthylenone | 168 | C12H8O | 002235-15-6 | 96 |
| 2 | 1-Acenaphthenol, 3-methylamino- | 199 | C13H13NO | 1000129-22-6 | 72 |
| 3 | Dibenzofuran | 168 | C12H8O | 000132-64-9 | 60 |
| 4 | 4H-Pyran-4-one, 2-ethyl-3-hydroxy- | 140 | C7H8O3 | 004940-11-8 | 46 |
| 5 | 3-Fluorosalicylaldehyde | 140 | C7H5FO2 | 000394-50-3 | 46 |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
Data File : BM013441.D
Acq On : 15 Dec 2017 16:08
Operator : SJ/JU
Sample : I6758-11DL 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F9B12DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

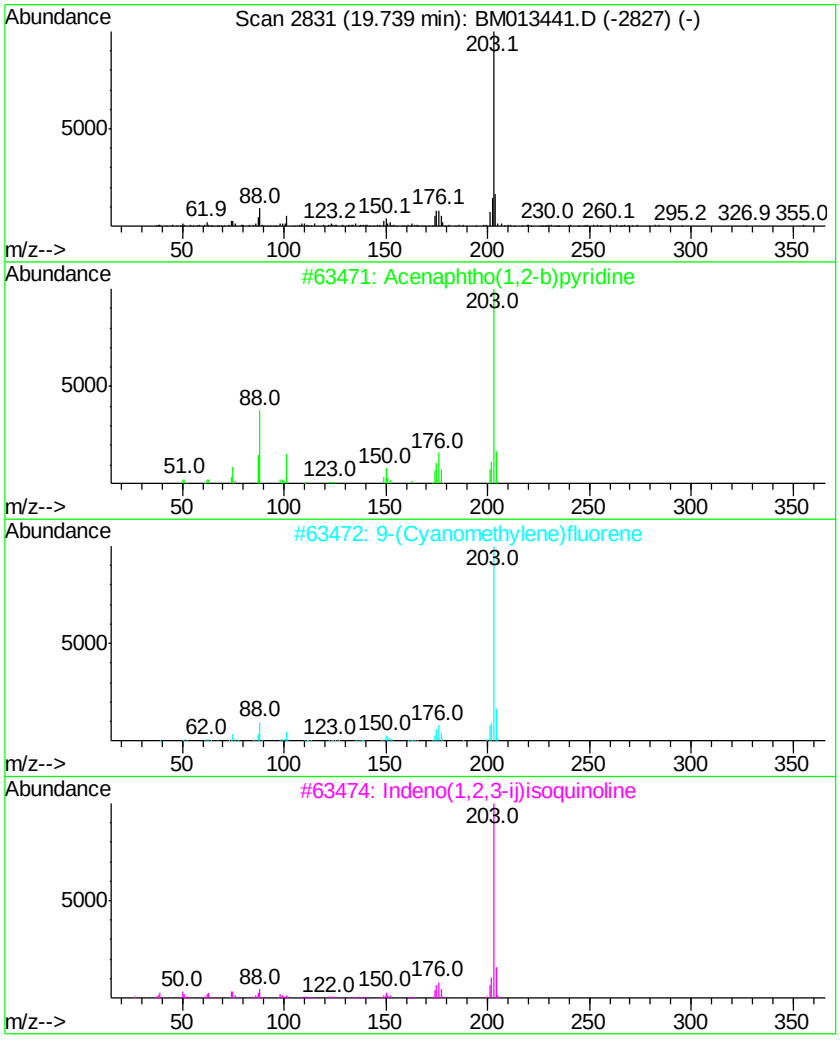
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

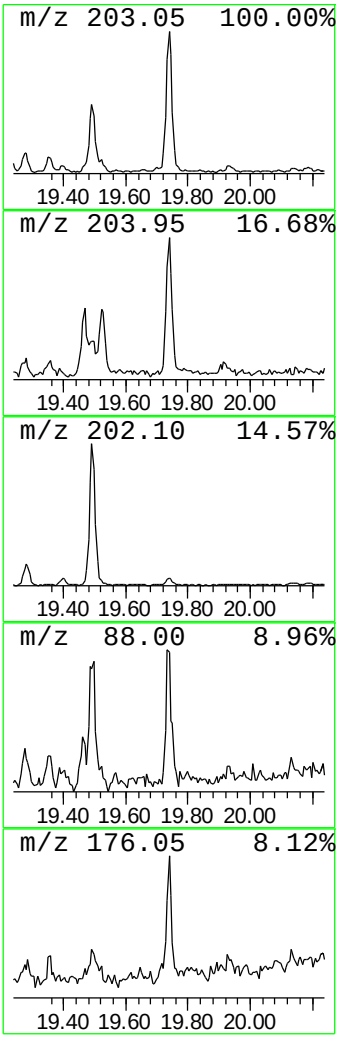
**********

Peak Number 2 Acenaphtho(1,2-b)pyridine Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.74 | 2.13 ng/ul | 442347 | Chrysene-d12 | 21.26 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acenaphtho(1,2-b)pyridine | 203 | C15H9N | 000206-49-5 | 97 |
| 2 | 9-(Cyanomethylene)fluorene | 203 | C15H9N | 004425-74-5 | 97 |
| 3 | Indeno(1,2,3-ij)isoquinoline | 203 | C15H9N | 000206-56-4 | 97 |
| 4 | 4-Azapyrene | 203 | C15H9N | 000194-03-6 | 97 |
| 5 | Acenaphtho(1,2-b)pyridine | 203 | C15H9N | 000206-49-5 | 95 |



Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\
Data File : BM013441.D
Acq On : 15 Dec 2017 16:08
Operator : SJ/JU
Sample : I6758-11DL 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F9B12DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION

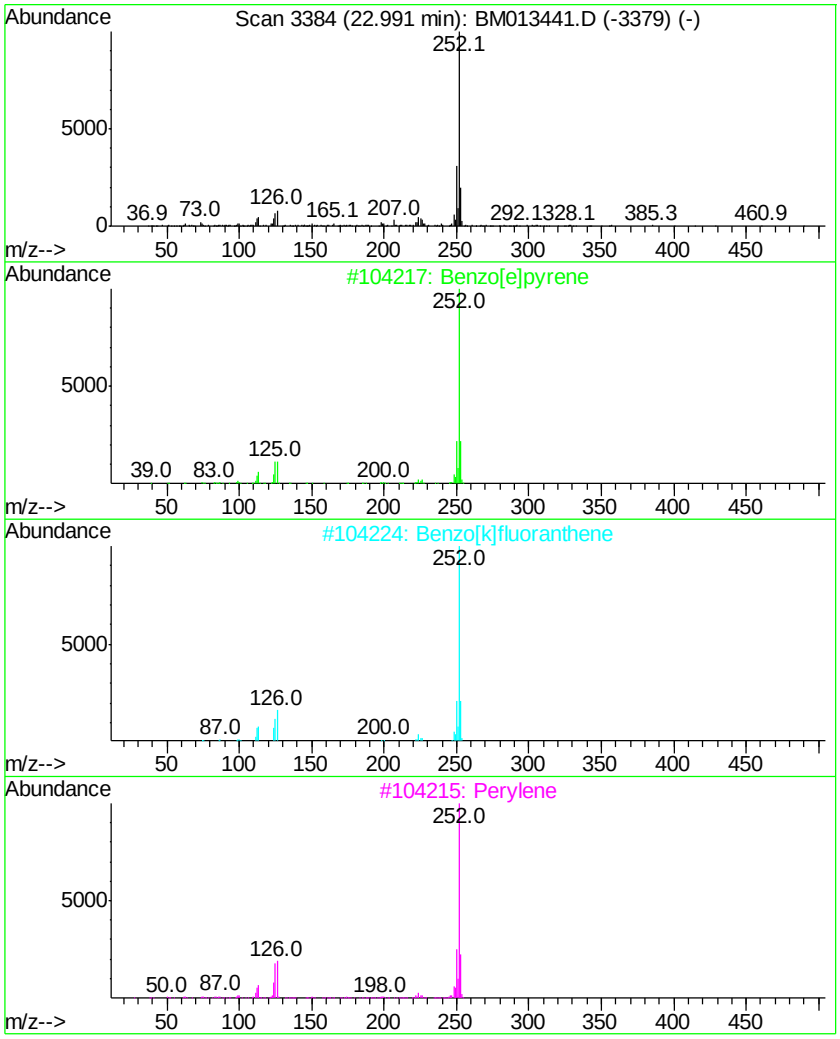
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

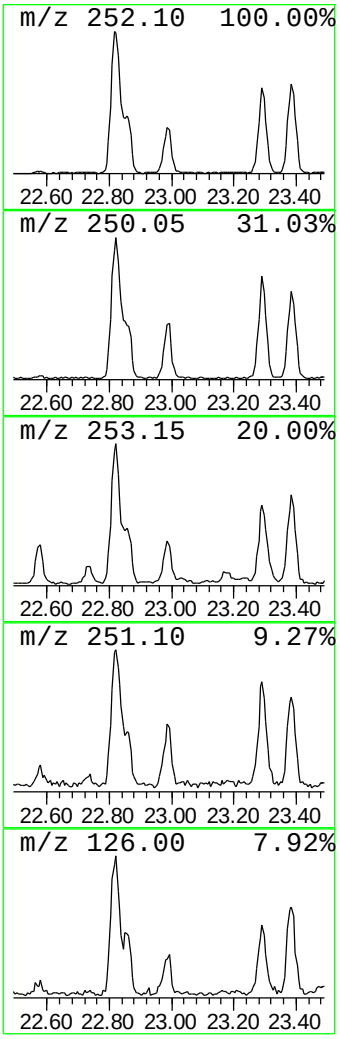
**********

Peak Number 3 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.99 | 5.72 ng/ul | 650169 | Perylene-d12 | 23.48 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 90 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 90 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 89 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 81 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 81 |



Tentatively Identified Compound (LSC) summary

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_M\DATA\BM121417\
Data File : BM013441.D
Acq On : 15 Dec 2017 16:08
Operator : SJ/JU
Sample : I6758-11DL 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F9B12DL

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM113017.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 |
| 1(2H)-Acenaphthyl... | 16.04 | 3.1 | ng/ul | 455768 | 4 | 17.07 | 2937330 | 20.0 |
| Acenaphtho(1,2-b)... | 19.74 | 2.1 | ng/ul | 442347 | 5 | 21.26 | 4147000 | 20.0 |
| Benzo[e]pyrene | 22.99 | 5.7 | ng/ul | 650169 | 6 | 23.48 | 2273490 | 20.0 |