LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

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-BM072720MA.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 | 2.902 | 23 | 28 | 36 | rBV | 123199 | 206962 | 2.56% | 0.345% |
| 2 | 2.978 | 36 | 41 | 52 | rVB | 511485 | 659320 | 8.14% | 1.098% |
| 3 | 6.837 | 690 | 697 | 705 | rVB | 83235 | 133780 | 1.65% | 0.223% |
| 4 | 7.002 | 716 | 725 | 731 | rBV | 61769 | 98071 | 1.21% | 0.163% |
| 5 | 7.196 | 752 | 758 | 765 | rVB | 84895 | 132729 | 1.64% | 0.221% |
| 6 | 7.660 | 831 | 837 | 844 | rVB | 414423 | 646779 | 7.99% | 1.077% |
| 7 | 8.196 | 922 | 928 | 935 | rBV | 34281 | 62514 | 0.77% | 0.104% |
| 8 | 8.360 | 951 | 956 | 963 | rBV2 | 101900 | 155513 | 1.92% | 0.259% |
| 9 | 8.802 | 1025 | 1031 | 1040 | rVB | 76025 | 126458 | 1.56% | 0.211% |
| 10 | 9.519 | 1148 | 1153 | 1163 | rVB | 60265 | 99898 | 1.23% | 0.166% |
| 11 | 10.054 | 1239 | 1244 | 1250 | rBV | 103609 | 164933 | 2.04% | 0.275% |
| 12 | 10.431 | 1300 | 1308 | 1314 | rBV | 522280 | 902861 | 11.15% | 1.503% |
| 13 | 10.484 | 1314 | 1317 | 1323 | rVB | 66043 | 95364 | 1.18% | 0.159% |
| 14 | 10.566 | 1323 | 1331 | 1339 | rBV | 62316 | 114499 | 1.41% | 0.191% |
| 15 | 11.931 | 1552 | 1563 | 1570 | rBV3 | 20563 | 53568 | 0.66% | 0.089% |
| 16 | 12.101 | 1587 | 1592 | 1597 | rVB | 39078 | 59041 | 0.73% | 0.098% |
| 17 | 12.319 | 1624 | 1629 | 1636 | rVB | 15805 | 25830 | 0.32% | 0.043% |
| 18 | 13.125 | 1762 | 1766 | 1774 | rBV2 | 12698 | 24076 | 0.30% | 0.040% |
| 19 | 13.701 | 1860 | 1864 | 1869 | rVV | 159482 | 227164 | 2.81% | 0.378% |
| 20 | 13.748 | 1869 | 1872 | 1877 | rVV3 | 37225 | 50773 | 0.63% | 0.085% |
| 21 | 13.984 | 1905 | 1912 | 1914 | rBV | 187555 | 301184 | 3.72% | 0.502% |
| 22 | 14.007 | 1914 | 1916 | 1924 | rVB | 256832 | 367560 | 4.54% | 0.612% |
| 23 | 14.101 | 1929 | 1932 | 1943 | rVB7 | 10044 | 29160 | 0.36% | 0.049% |
| 24 | 14.295 | 1957 | 1965 | 1971 | rVV | 769788 | 1172534 | 14.48% | 1.953% |
| 25 | 14.354 | 1971 | 1975 | 1980 | rVV | 23809 | 38732 | 0.48% | 0.064% |
| 26 | 14.478 | 1992 | 1996 | 2007 | rVV | 69053 | 112382 | 1.39% | 0.187% |
| 27 | 14.578 | 2007 | 2013 | 2019 | rVV7 | 11936 | 23182 | 0.29% | 0.039% |
| 28 | 14.689 | 2027 | 2032 | 2042 | rBV | 67739 | 108008 | 1.33% | 0.180% |
| 29 | 15.166 | 2108 | 2113 | 2119 | rBV5 | 15674 | 28197 | 0.35% | 0.047% |
| 30 | 15.289 | 2128 | 2134 | 2139 | rBV | 229450 | 330469 | 4.08% | 0.550% |
| 31 | 15.342 | 2139 | 2143 | 2148 | rVV2 | 26484 | 44918 | 0.55% | 0.075% |
| 32 | 15.401 | 2148 | 2153 | 2157 | rVB | 48638 | 70486 | 0.87% | 0.117% |
| 33 | 15.636 | 2189 | 2193 | 2197 | rBV | 13074 | 21451 | 0.26% | 0.036% |
| 34 | 15.784 | 2215 | 2218 | 2226 | rVB3 | 19608 | 40923 | 0.51% | 0.068% |

LSC Area Percent Report

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Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

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-BM072720MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.007 | 2251 | 2256 | 2264 | rBV2 | 48296 | 99304 | 1.23% | 0.165% |
| 36 | 16.613 | 2355 | 2359 | 2364 | rVV | 43231 | 67385 | 0.83% | 0.112% |
| 37 | 16.683 | 2367 | 2371 | 2382 | rVB | 84272 | 133948 | 1.65% | 0.223% |
| 38 | 16.778 | 2382 | 2387 | 2390 | rBV4 | 14077 | 23023 | 0.28% | 0.038% |
| 39 | 16.854 | 2390 | 2400 | 2403 | rBV3 | 19497 | 46415 | 0.57% | 0.077% |
| 40 | 17.036 | 2424 | 2431 | 2435 | rBV | 953471 | 1377550 | 17.01% | 2.294% |
| 41 | 17.072 | 2435 | 2437 | 2442 | rVB | 244012 | 320961 | 3.96% | 0.534% |
| 42 | 17.130 | 2442 | 2447 | 2450 | rBV2 | 249232 | 401332 | 4.96% | 0.668% |
| 43 | 17.166 | 2450 | 2453 | 2460 | rVB | 558396 | 736871 | 9.10% | 1.227% |
| 44 | 17.430 | 2489 | 2498 | 2504 | rBV | 152738 | 266300 | 3.29% | 0.443% |
| 45 | 17.477 | 2504 | 2506 | 2510 | rVV5 | 15108 | 22025 | 0.27% | 0.037% |
| 46 | 17.689 | 2539 | 2542 | 2546 | rVB3 | 20750 | 24348 | 0.30% | 0.041% |
| 47 | 17.736 | 2546 | 2550 | 2557 | rBV6 | 25232 | 42683 | 0.53% | 0.071% |
| 48 | 17.954 | 2583 | 2587 | 2595 | rVB2 | 131820 | 193718 | 2.39% | 0.323% |
| 49 | 18.036 | 2597 | 2601 | 2606 | rVB | 66737 | 86538 | 1.07% | 0.144% |
| 50 | 18.107 | 2607 | 2613 | 2617 | rBV3 | 73958 | 143335 | 1.77% | 0.239% |
| 51 | 18.295 | 2641 | 2645 | 2652 | rVB2 | 168183 | 243365 | 3.01% | 0.405% |
| 52 | 18.389 | 2657 | 2661 | 2662 | rBV2 | 20597 | 28345 | 0.35% | 0.047% |
| 53 | 18.448 | 2667 | 2671 | 2676 | rVB | 178409 | 244078 | 3.01% | 0.406% |
| 54 | 18.754 | 2719 | 2723 | 2727 | rVB2 | 31286 | 44522 | 0.55% | 0.074% |
| 55 | 18.830 | 2731 | 2736 | 2742 | rBV3 | 90133 | 161588 | 2.00% | 0.269% |
| 56 | 18.913 | 2743 | 2750 | 2754 | rBV6 | 123305 | 227651 | 2.81% | 0.379% |
| 57 | 18.966 | 2755 | 2759 | 2765 | rVV | 296382 | 413255 | 5.10% | 0.688% |
| 58 | 19.048 | 2770 | 2773 | 2776 | rBV2 | 72141 | 93041 | 1.15% | 0.155% |
| 59 | 19.095 | 2776 | 2781 | 2787 | rVV | 2146691 | 2737812 | 33.81% | 4.559% |
| 60 | 19.242 | 2802 | 2806 | 2810 | rBV2 | 169269 | 250584 | 3.09% | 0.417% |
| 61 | 19.430 | 2833 | 2838 | 2839 | rBV | 576382 | 736963 | 9.10% | 1.227% |
| 62 | 19.460 | 2839 | 2843 | 2851 | rVV | 2761867 | 3583799 | 44.26% | 5.968% |
| 63 | 19.530 | 2852 | 2855 | 2863 | rVB3 | 64636 | 135715 | 1.68% | 0.226% |
| 64 | 19.636 | 2870 | 2873 | 2878 | rBV | 134640 | 161359 | 1.99% | 0.269% |
| 65 | 19.689 | 2879 | 2882 | 2890 | rVB3 | 108076 | 197009 | 2.43% | 0.328% |
| 66 | 19.795 | 2893 | 2900 | 2904 | rBV2 | 232096 | 475826 | 5.88% | 0.792% |
| 67 | 19.924 | 2917 | 2922 | 2932 | rVB5 | 268614 | 821816 | 10.15% | 1.369% |
| 68 | 20.054 | 2941 | 2944 | 2948 | rVB3 | 105924 | 130905 | 1.62% | 0.218% |
| 69 | 20.113 | 2948 | 2954 | 2958 | rBV2 | 349366 | 552311 | 6.82% | 0.920% |
| 70 | 20.154 | 2958 | 2961 | 2964 | rVB2 | 87634 | 98970 | 1.22% | 0.165% |
| 71 | 20.254 | 2974 | 2978 | 2982 | rBV2 | 256058 | 336448 | 4.15% | 0.560% |

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Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

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-BM072720MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.301 | 2982 | 2986 | 2990 | rBV2 | 148940 | 276555 | 3.42% | 0.461% |
| 73 | 20.513 | 3019 | 3022 | 3026 | rBV4 | 101220 | 170684 | 2.11% | 0.284% |
| 74 | 20.618 | 3038 | 3040 | 3043 | rBV3 | 63885 | 62351 | 0.77% | 0.104% |
| 75 | 20.701 | 3050 | 3054 | 3061 | rVB2 | 393699 | 561202 | 6.93% | 0.935% |
| 76 | 20.871 | 3076 | 3083 | 3086 | rBV2 | 333728 | 682099 | 8.42% | 1.136% |
| 77 | 20.907 | 3086 | 3089 | 3092 | rVV2 | 312738 | 416014 | 5.14% | 0.693% |
| 78 | 20.942 | 3092 | 3095 | 3101 | rVV | 604145 | 972781 | 12.01% | 1.620% |
| 79 | 20.995 | 3101 | 3104 | 3114 | rVB3 | 214634 | 347726 | 4.29% | 0.579% |
| 80 | 21.213 | 3135 | 3141 | 3146 | rBV2 | 1896437 | 4251346 | 52.50% | 7.079% |
| 81 | 21.260 | 3146 | 3149 | 3156 | rVB | 2295839 | 3293452 | 40.67% | 5.484% |
| 82 | 21.342 | 3161 | 3163 | 3166 | rVB2 | 107688 | 115245 | 1.42% | 0.192% |
| 83 | 21.395 | 3167 | 3172 | 3179 | rBV3 | 265016 | 521361 | 6.44% | 0.868% |
| 84 | 21.524 | 3191 | 3194 | 3198 | rBV3 | 329783 | 473392 | 5.85% | 0.788% |
| 85 | 21.771 | 3233 | 3236 | 3240 | rVB | 324210 | 411309 | 5.08% | 0.685% |
| 86 | 21.824 | 3241 | 3245 | 3251 | rVB2 | 363053 | 550631 | 6.80% | 0.917% |
| 87 | 21.965 | 3265 | 3269 | 3271 | rBV | 188099 | 237471 | 2.93% | 0.395% |
| 88 | 22.230 | 3311 | 3314 | 3318 | rBV | 171509 | 212453 | 2.62% | 0.354% |
| 89 | 22.507 | 3357 | 3361 | 3376 | rVB3 | 308927 | 974243 | 12.03% | 1.622% |
| 90 | 22.636 | 3379 | 3383 | 3390 | rVB2 | 440490 | 732435 | 9.04% | 1.220% |
| 91 | 22.783 | 3400 | 3408 | 3413 | rBV2 | 3298992 | 8097813 | 100.00% | 13.485% |
| 92 | 22.942 | 3431 | 3435 | 3442 | rVB | 416834 | 660996 | 8.16% | 1.101% |
| 93 | 23.077 | 3453 | 3458 | 3468 | rVB2 | 243545 | 582101 | 7.19% | 0.969% |
| 94 | 23.248 | 3481 | 3487 | 3492 | rBV | 1471026 | 2470331 | 30.51% | 4.114% |
| 95 | 23.342 | 3498 | 3503 | 3510 | rVB | 1322486 | 2389115 | 29.50% | 3.978% |
| 96 | 23.436 | 3512 | 3519 | 3523 | rVV2 | 746504 | 1511226 | 18.66% | 2.517% |
| 97 | 23.483 | 3523 | 3527 | 3535 | rVB2 | 431804 | 947149 | 11.70% | 1.577% |
| 98 | 25.406 | 3849 | 3854 | 3862 | rVB3 | 413970 | 971624 | 12.00% | 1.618% |
| 99 | 25.648 | 3886 | 3895 | 3905 | rVB | 1389364 | 3904706 | 48.22% | 6.502% |
| 100 | 26.318 | 4003 | 4009 | 4022 | rVB | 308900 | 864007 | 10.67% | 1.439% |

Sum of corrected areas: 60052235

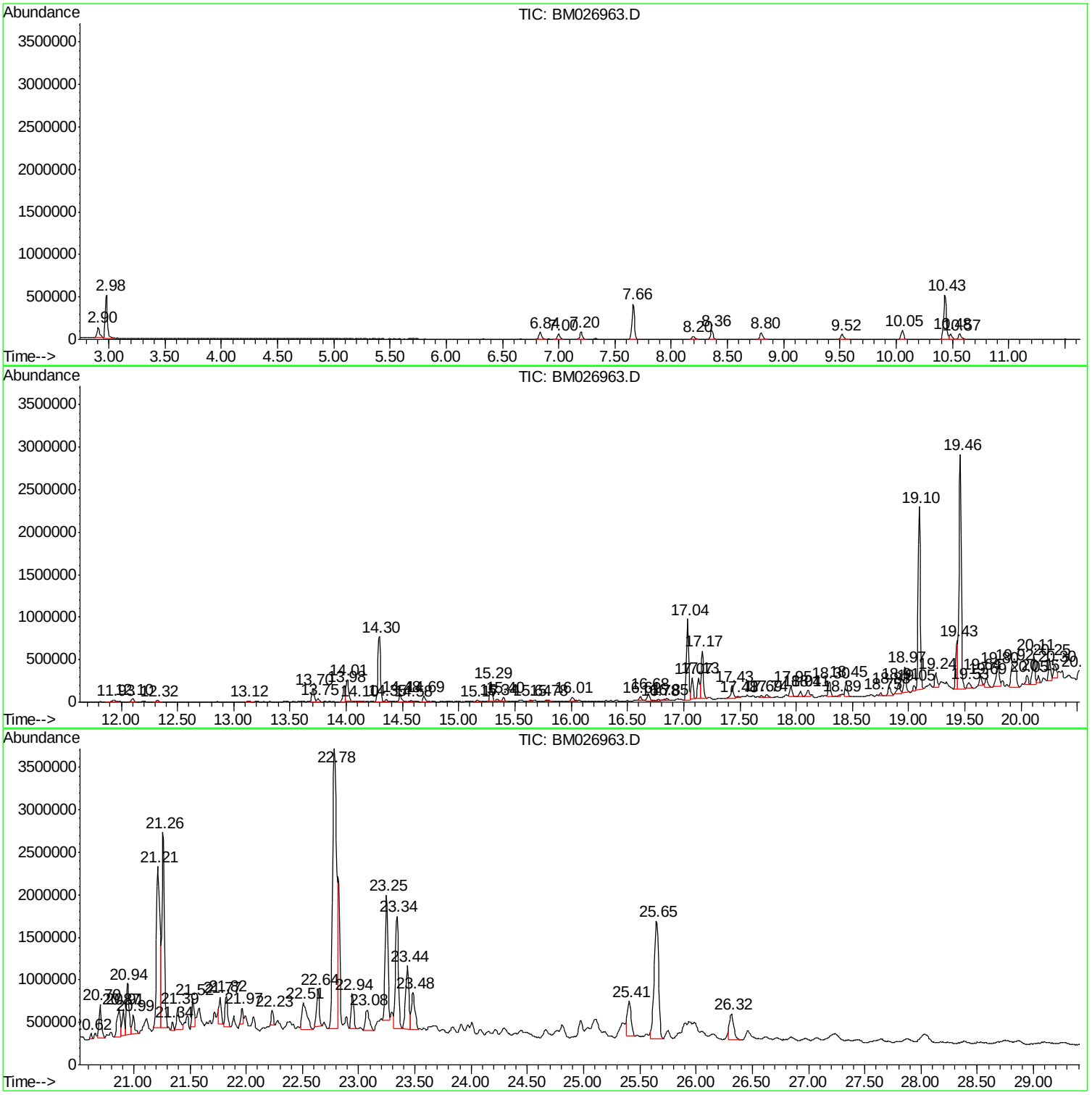
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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



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**Instrument :** BNA_M
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

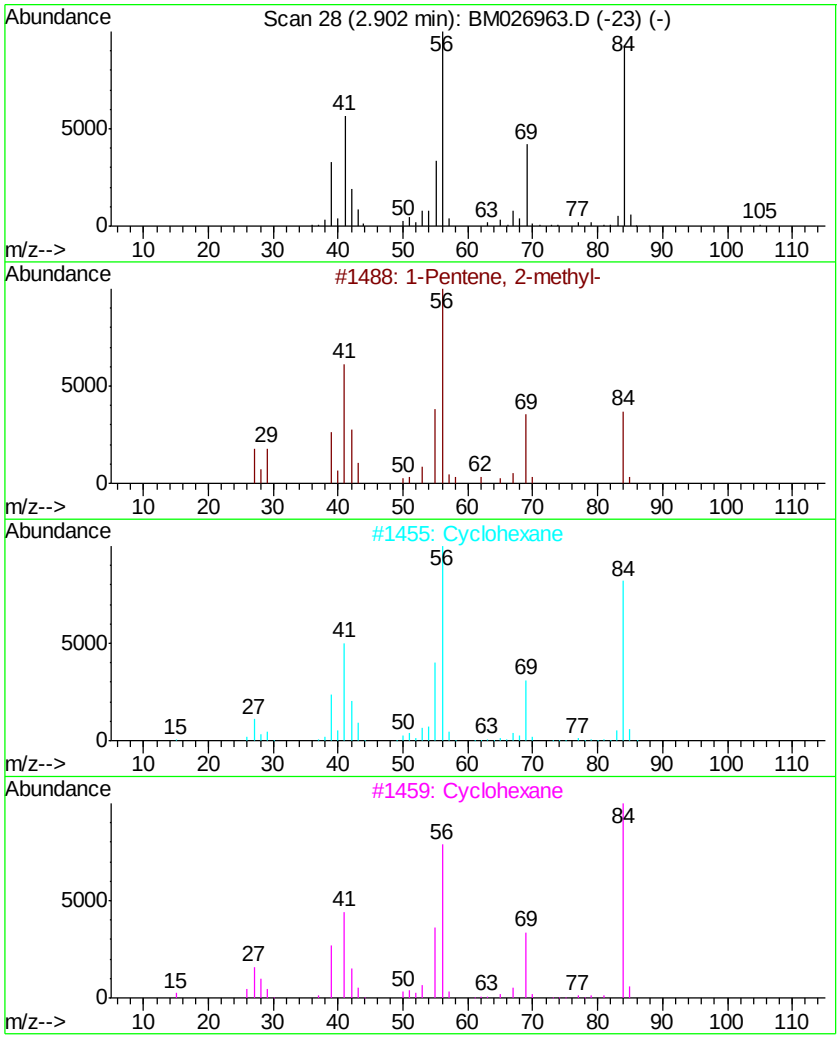
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

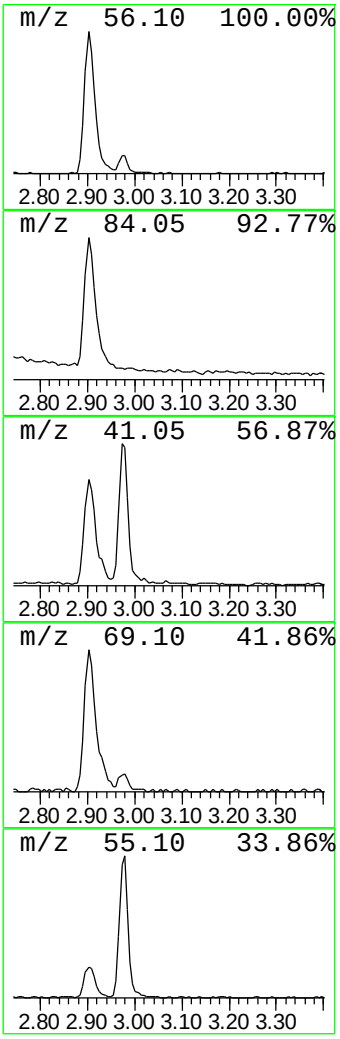
**********

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.90 | 6.40 ng/ul | 206962 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 91 |
| 2 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 90 |
| 3 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 90 |
| 4 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 80 |
| 5 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 72 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
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**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

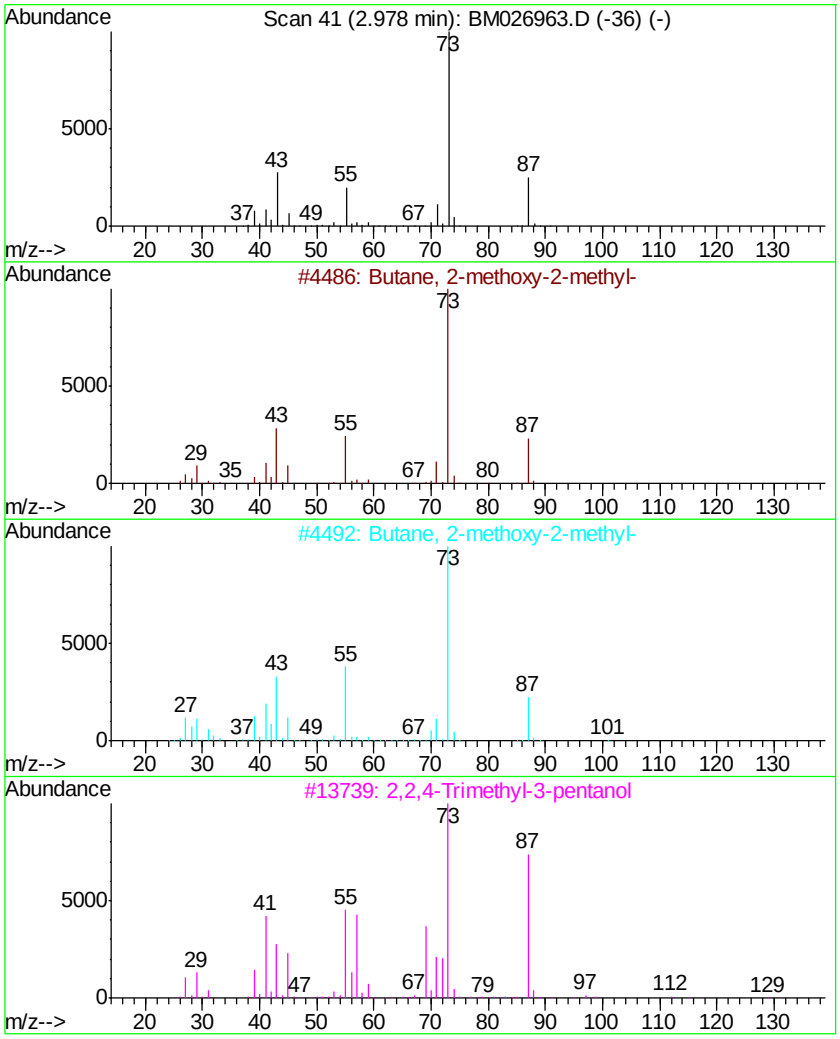
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

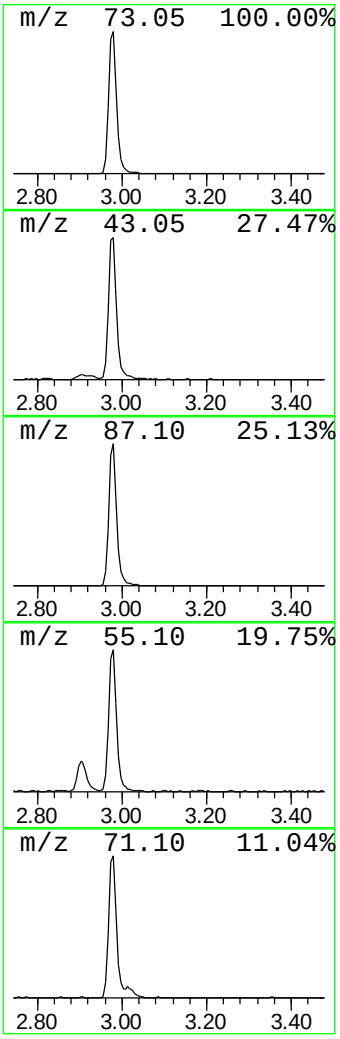
**********

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.98 | 20.39 ng/ul | 659320 | 1,4-Dichlorobenzene-d4 | 7.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 72 |
| 2 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 64 |
| 3 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 43 |
| 4 | N-Ethylformamide | 73 | C3H7NO | 000627-45-2 | 9 |
| 5 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 9 |



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Misc :
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**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

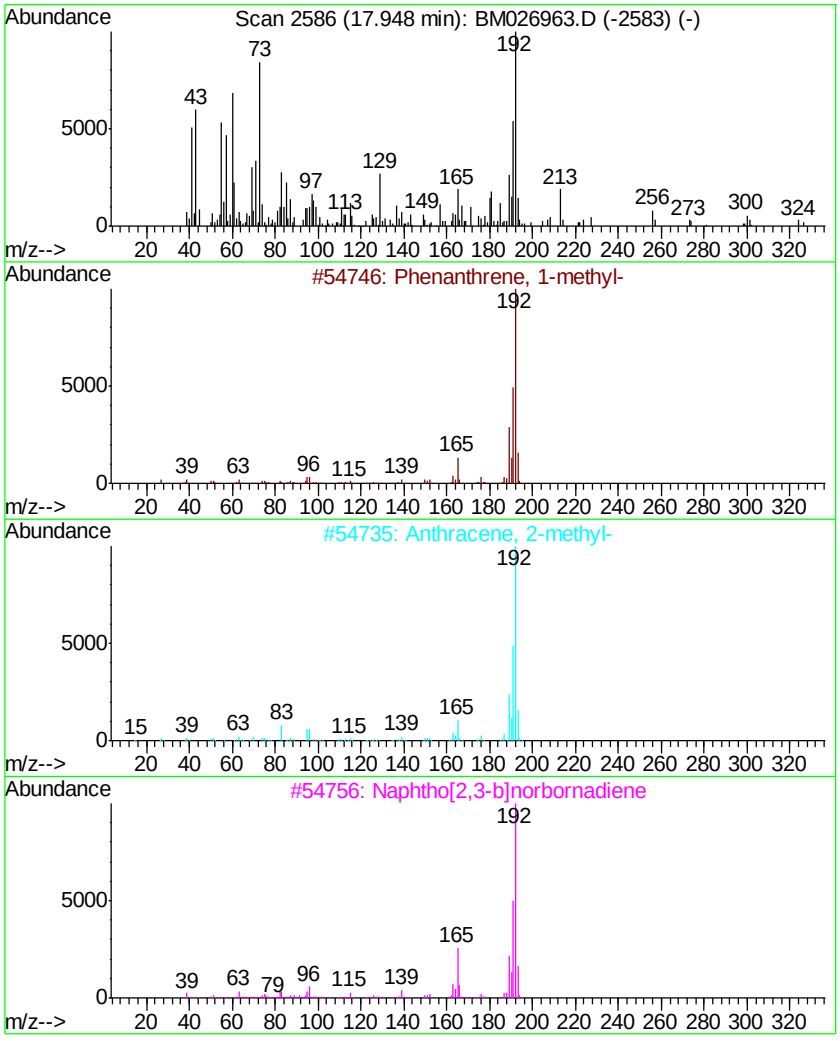
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

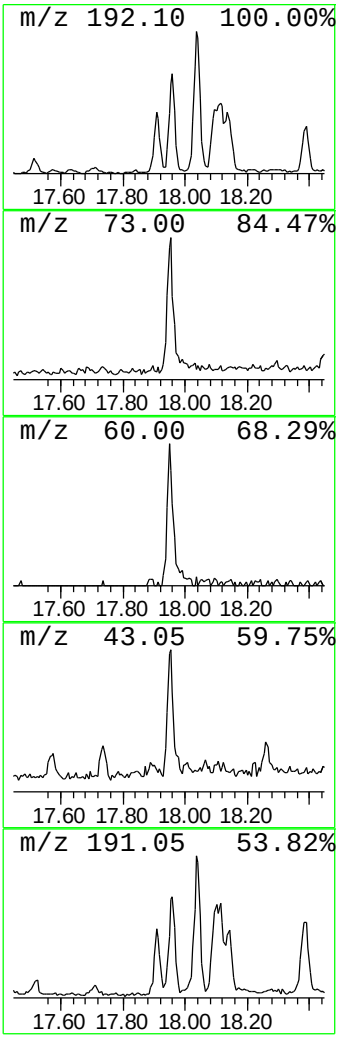
**********

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.95 | 2.81 ng/ul | 193718 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 3 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 92 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 91 |



Library Search Compound Report

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**Instrument :** BNA_M
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

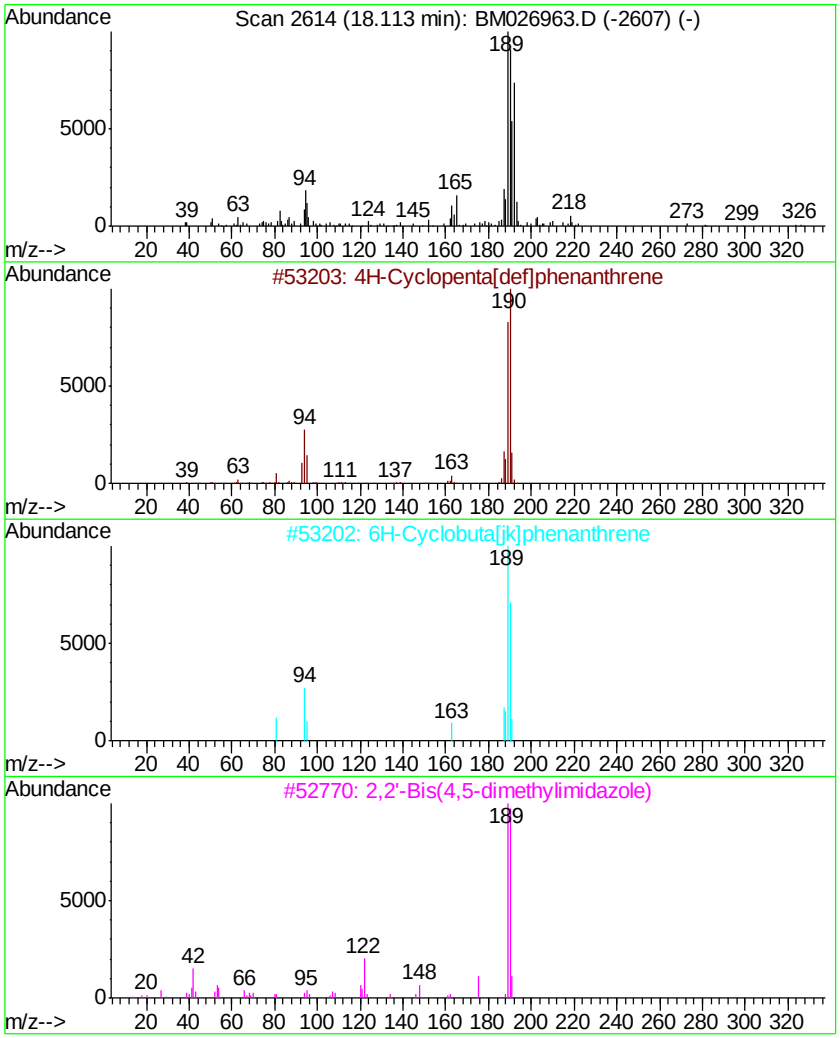
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

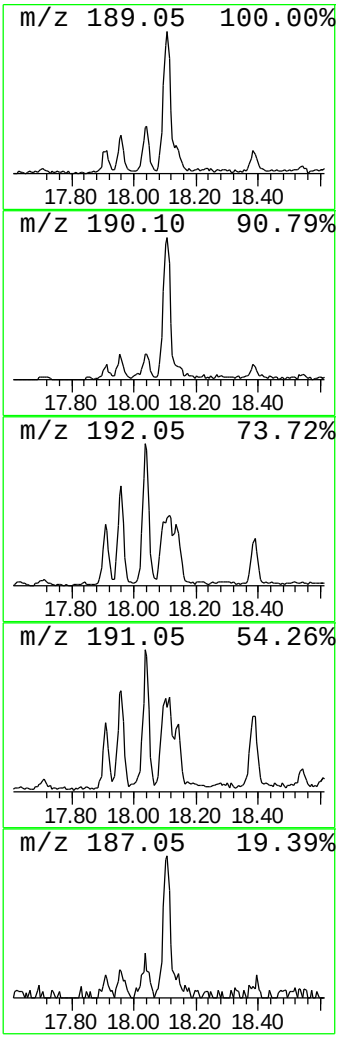
**********

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.11 | 2.08 ng/ul | 143335 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 53 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 53 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 43 |
| 4 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 43 |
| 5 | Benzene, 1,1'-(1,2-propadienylid... | 192 | C15H12 | 014251-57-1 | 25 |



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Data File : BM026963.D
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Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

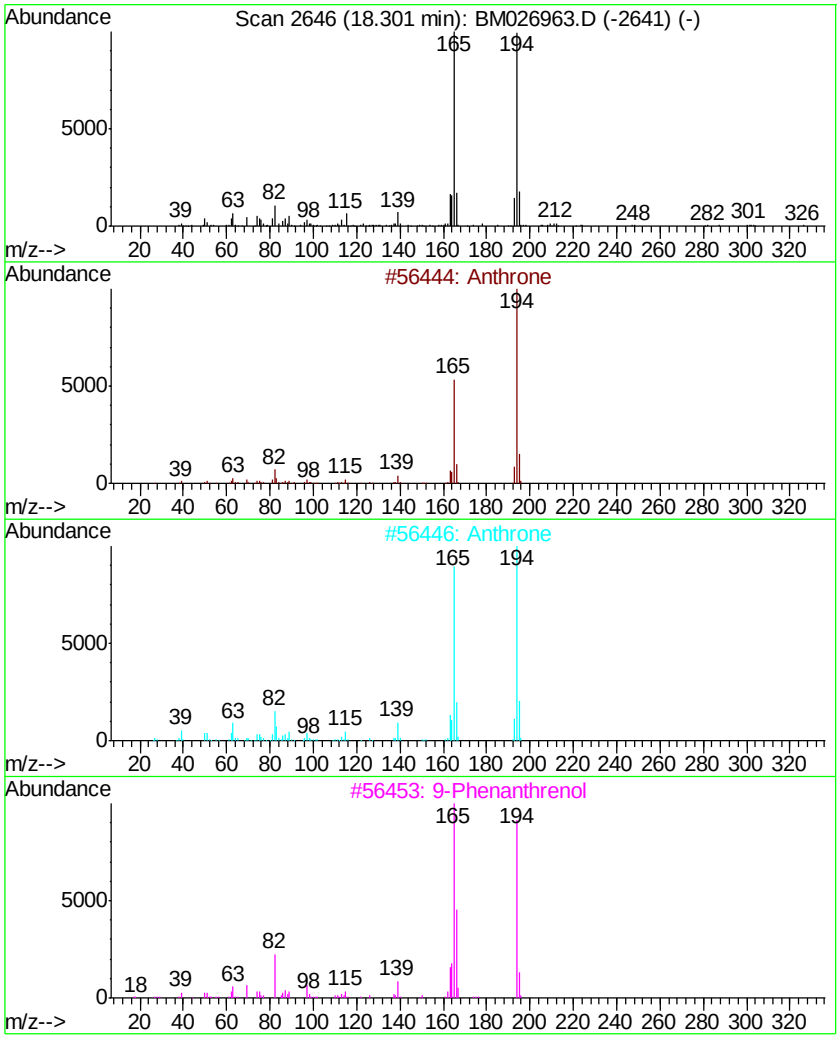
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

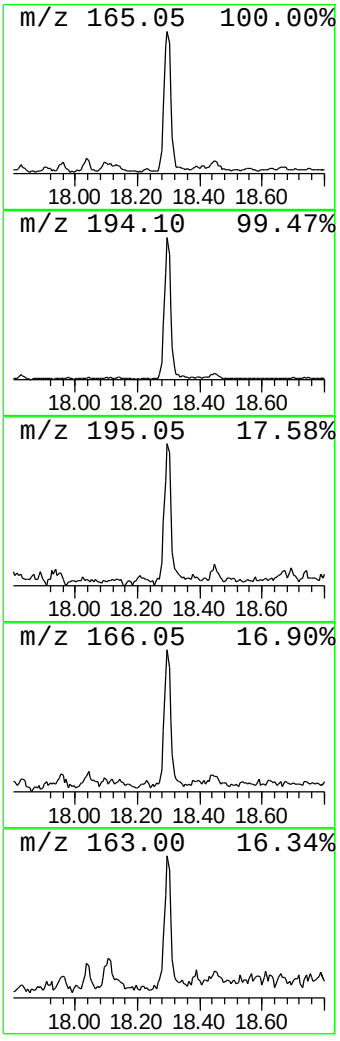
**********

Peak Number 5 Anthrone Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.30 | 3.53 ng/ul | 243365 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthrone | 194 | C14H10O | 000090-44-8 | 94 |
| 2 | Anthrone | 194 | C14H10O | 000090-44-8 | 94 |
| 3 | 9-Phenanthrenol | 194 | C14H10O | 000484-17-3 | 93 |
| 4 | 9H-Fluoren-9-one, hydrazone | 194 | C13H10N2 | 013629-22-6 | 91 |
| 5 | Benzo[c]cinnoline, 4-methyl- | 194 | C13H10N2 | 019174-78-8 | 91 |



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Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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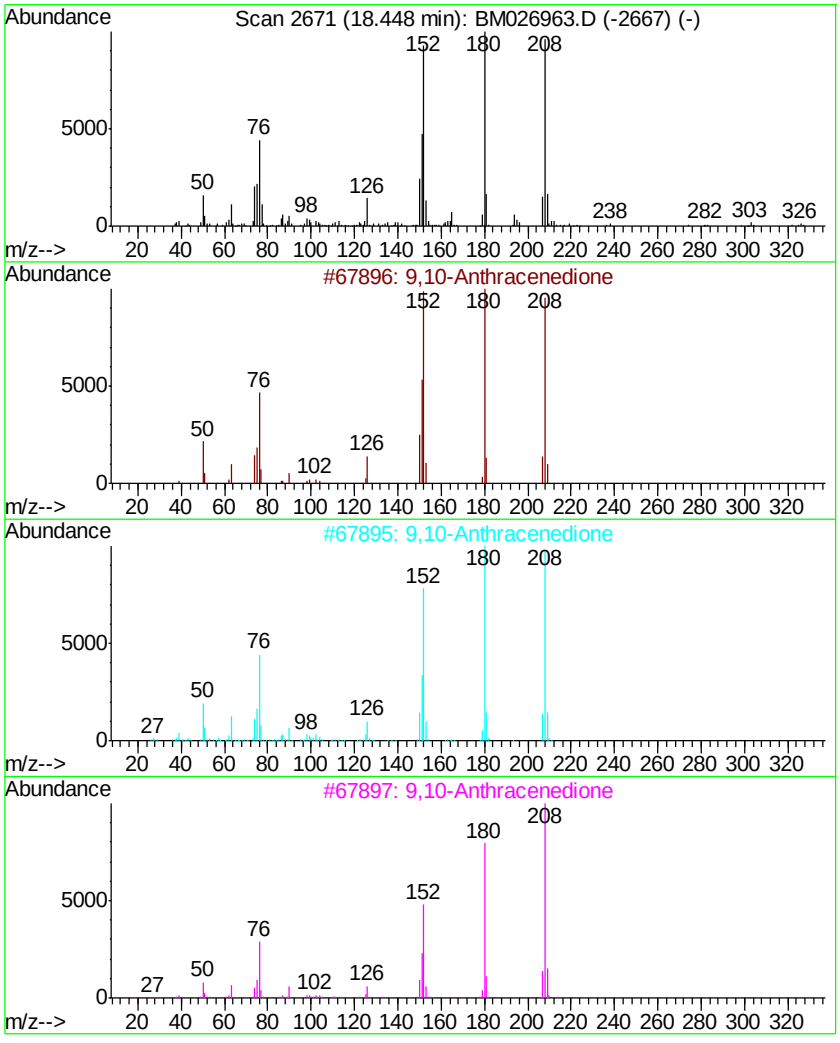
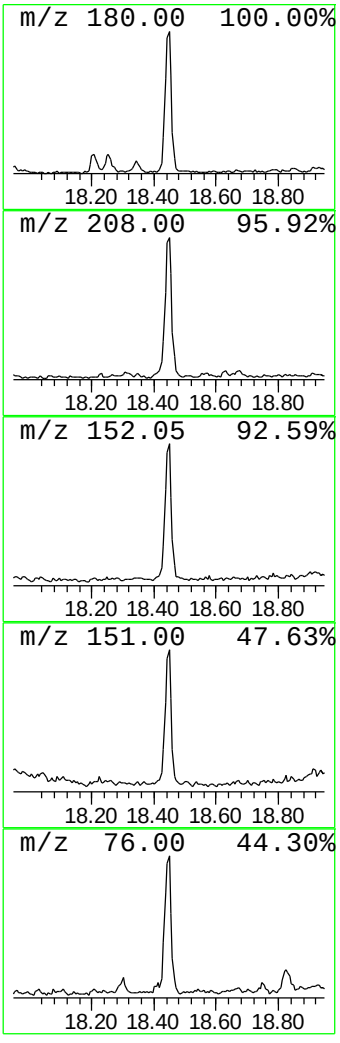
Peak Number 6 9,10-Anthracenedione Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.45 | 3.54 ng/ul | 244078 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 98 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 98 |
| 3 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 94 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 70 |
| 5 | Benzo[h]cinnoline | 180 | C12H8N2 | 000230-31-9 | 62 |



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Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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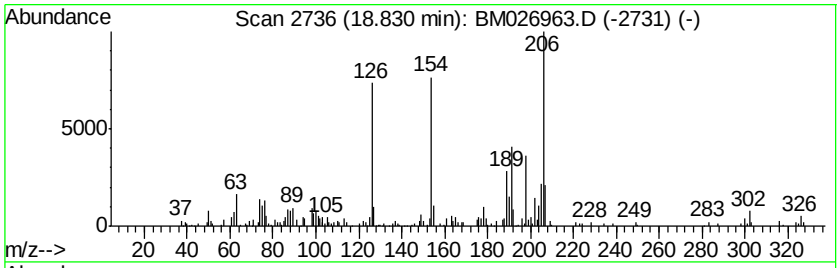
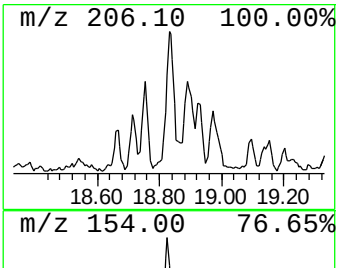
Peak Number 7 Naphthalic anhydride Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.83 | 2.35 ng/ul | 161588 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 86 |
| 2 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 84 |
| 3 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 66 |
| 4 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 60 |
| 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 56 |



# Library Search Compound Report

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Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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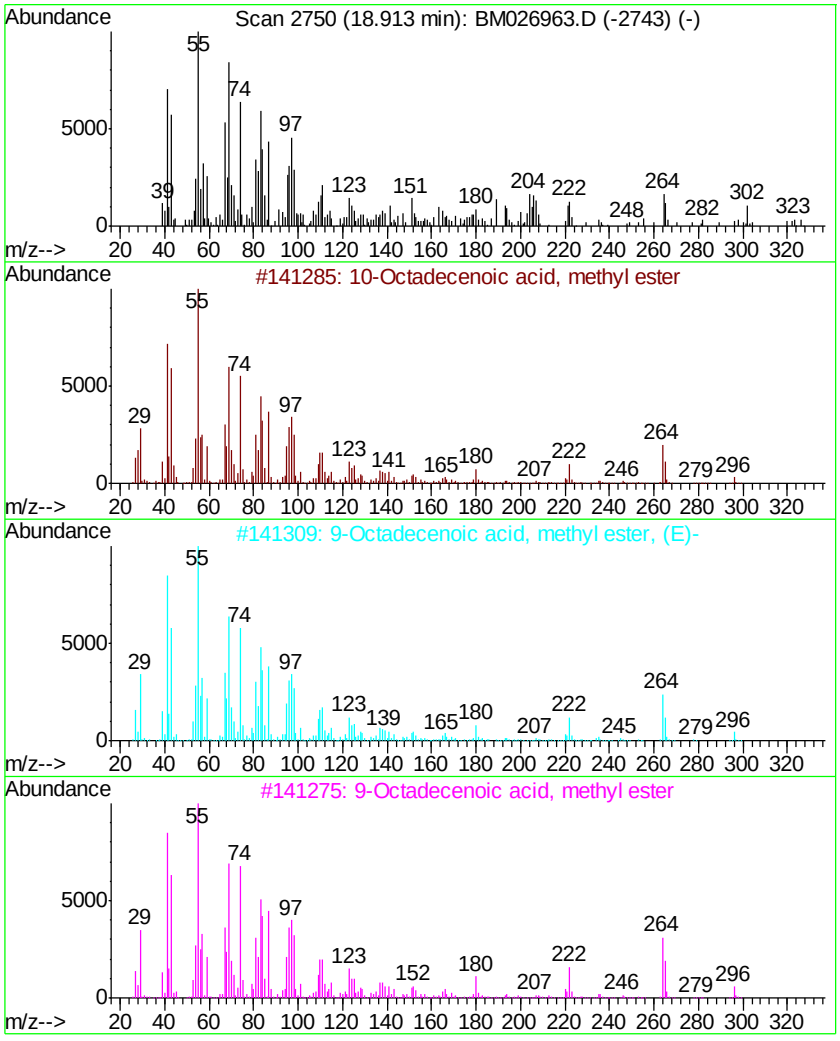
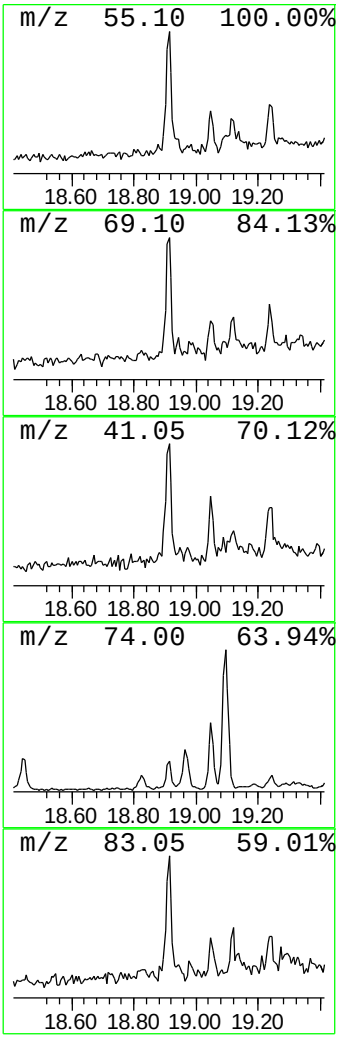
Peak Number 8 10-Octadecenoic acid, methy... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.91 | 3.31 ng/ul | 227651 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 10-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 013481-95-3 | 97 |
| 2 | 9-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 001937-62-8 | 97 |
| 3 | 9-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 002462-84-2 | 97 |
| 4 | 6-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 052355-31-4 | 97 |
| 5 | 8-Octadecenoic acid, methyl este... | 296 | C19H36O2 | 026528-50-7 | 97 |



Library Search Compound Report

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Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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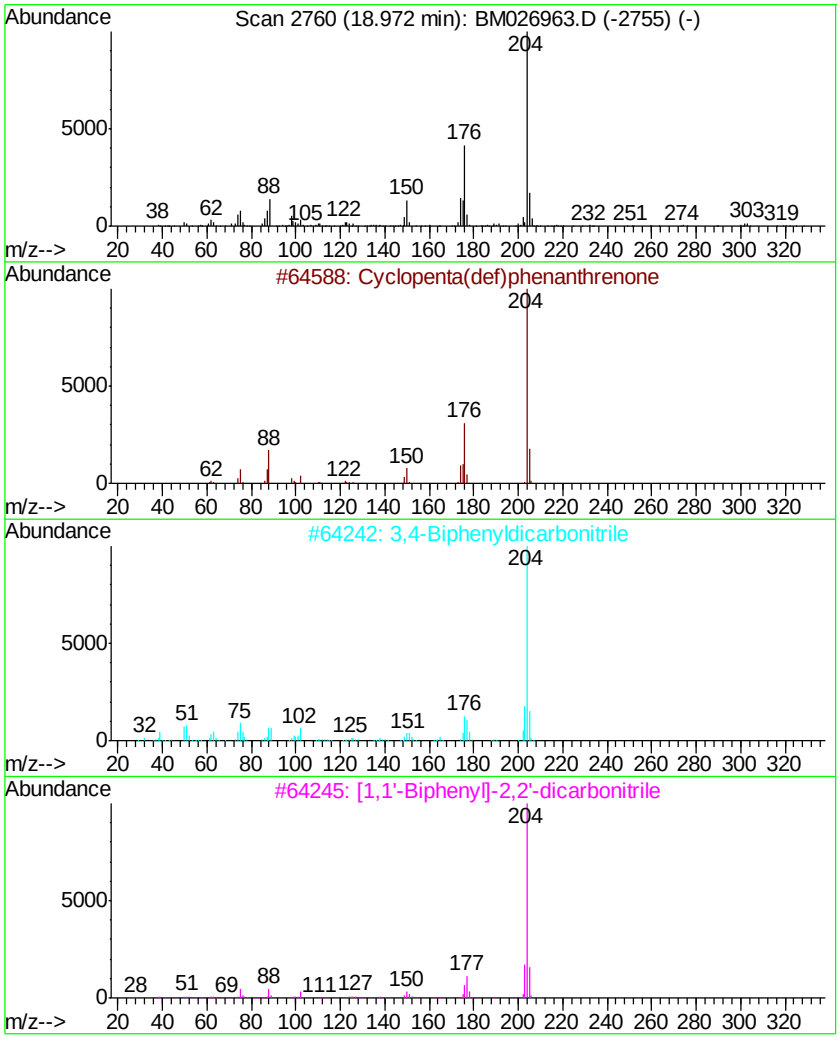
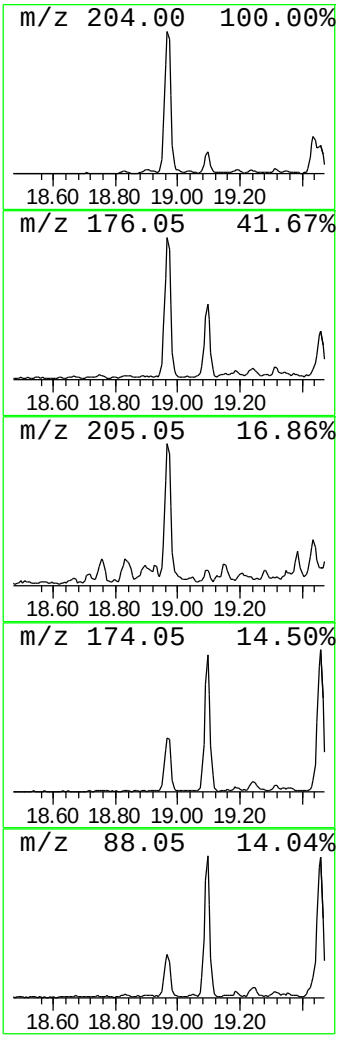
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.97 | 6.00 ng/ul | 413255 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 95 |
| 2 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 64 |
| 3 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 47 |
| 4 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 45 |
| 5 | [1,2,4]Triazolo[5,1-b]quinazolin... | 204 | C10H12N4O | 1000337-56-5 | 45 |



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Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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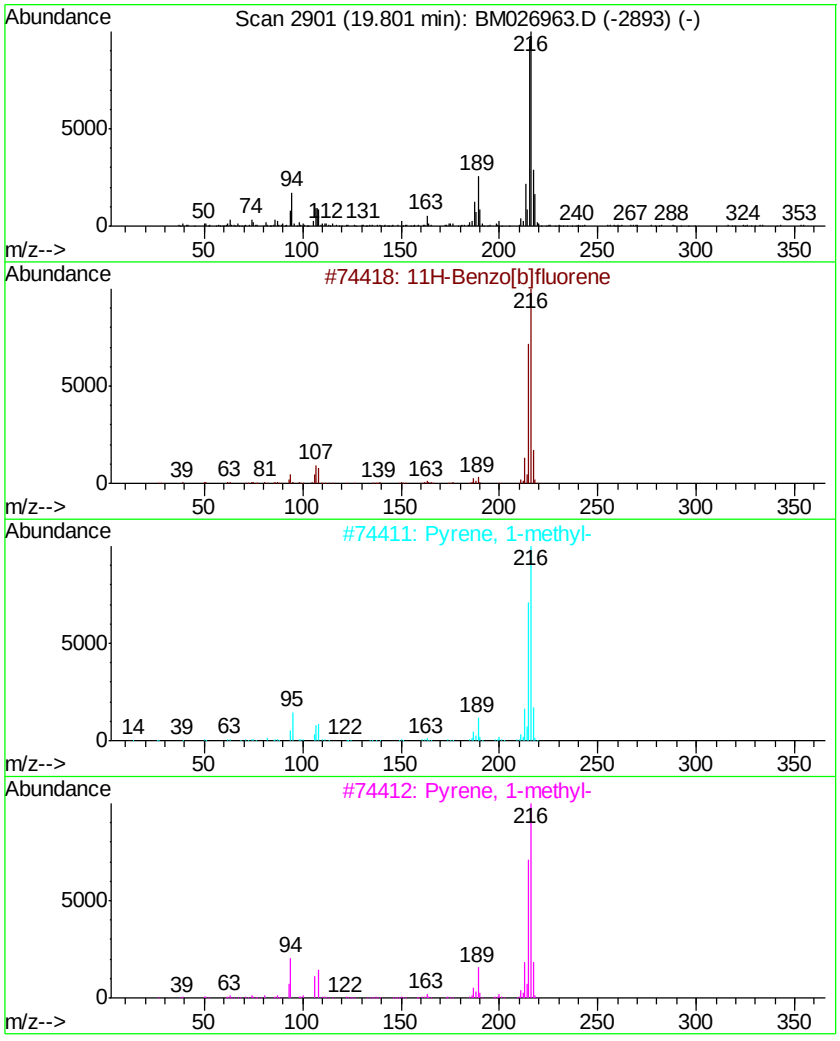
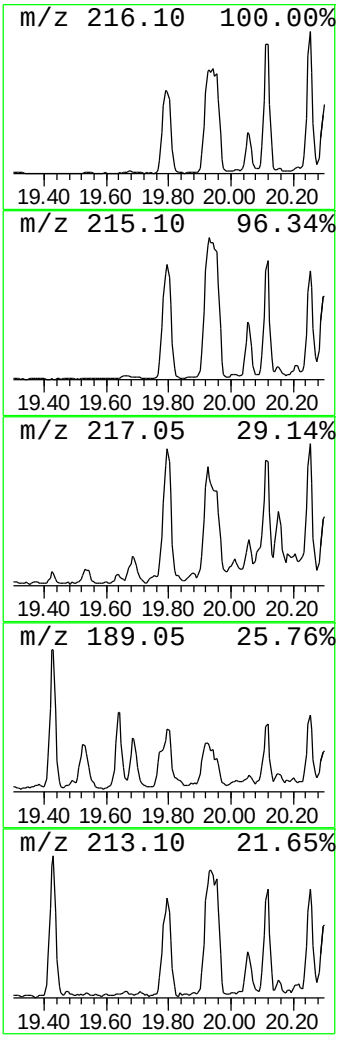
Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.80 | 2.24 ng/ul | 475826 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 81 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 81 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 74 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 64 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 59 |



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Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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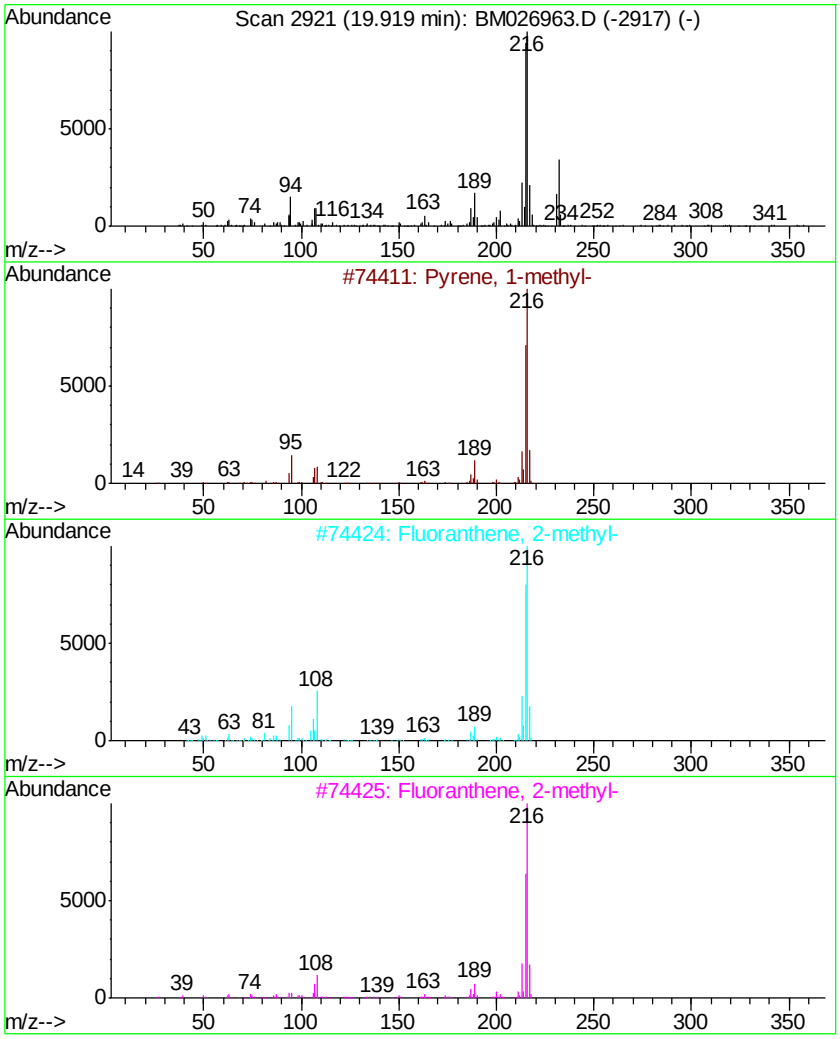
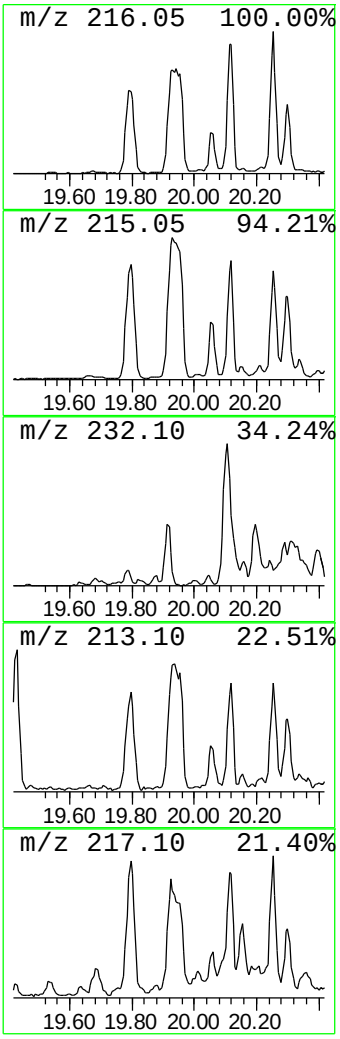
Peak Number 11 Pyrene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.92 | 3.87 ng/ul | 821816 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 90 |



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Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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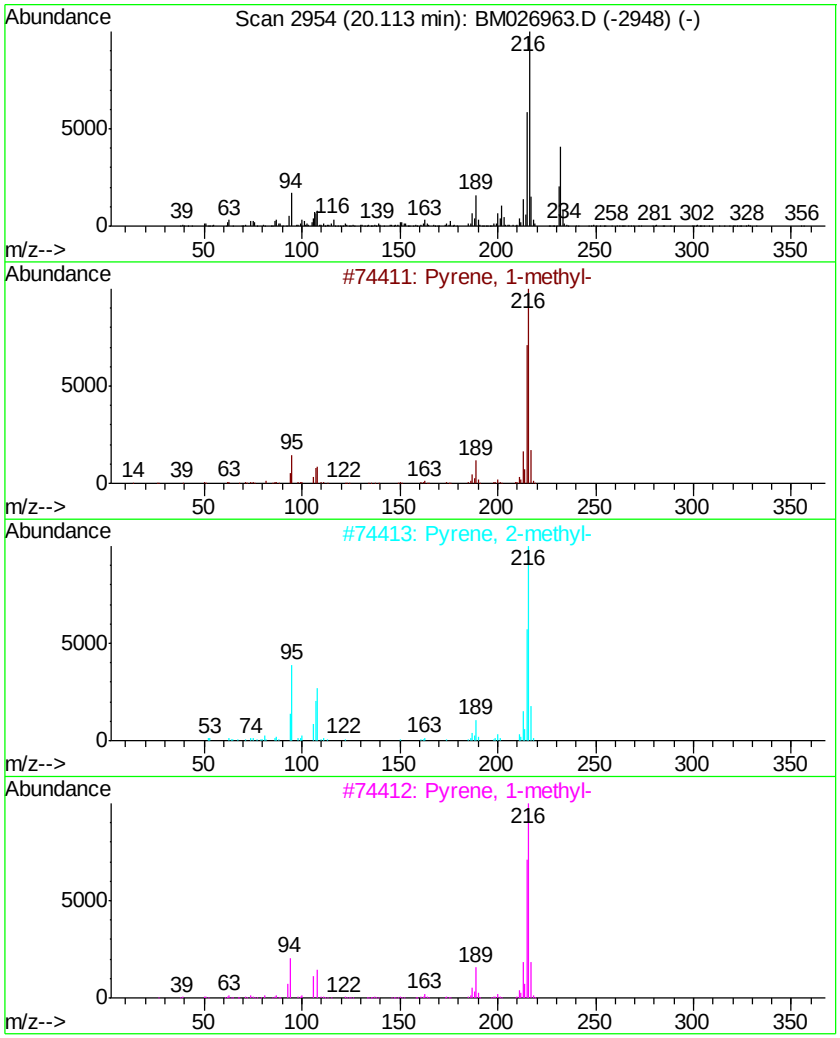
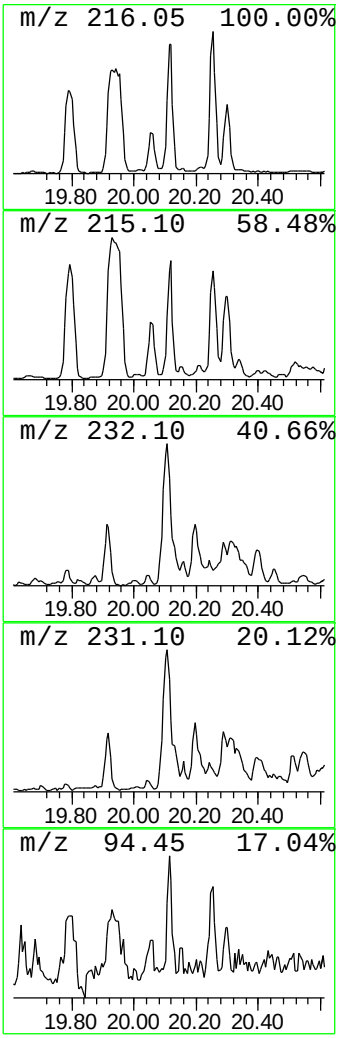
Peak Number 12 Pyrene, 2-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.11 | 2.60 ng/ul | 552311 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 83 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 78 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 78 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 70 |



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Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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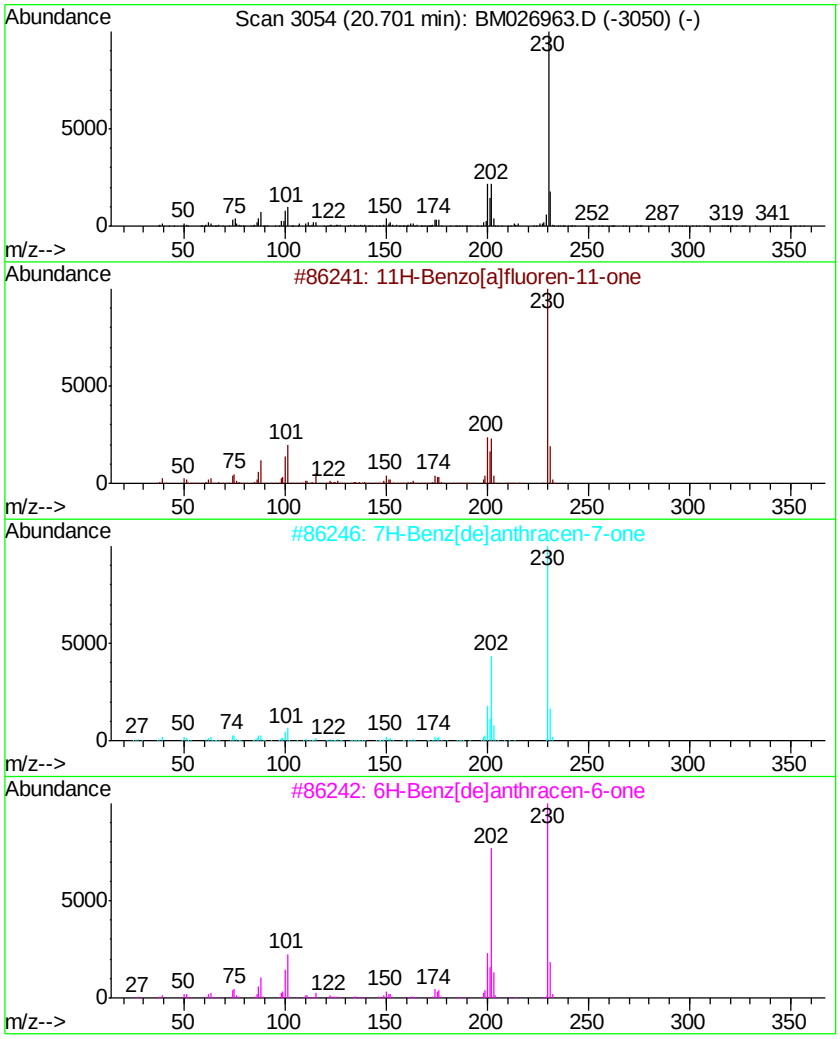
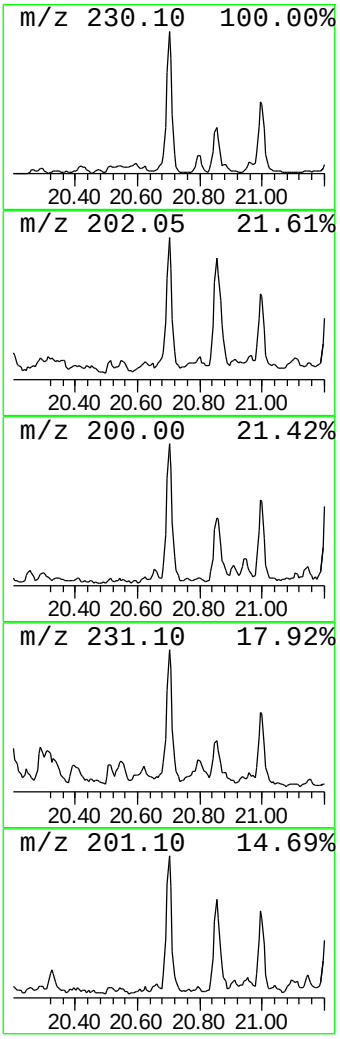
Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.70 | 2.64 ng/ul | 561202 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 94 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 90 |
| 3 | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 89 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 87 |
| 5 | 4-Pyrenecarbaldehyde | 230 | C17H10O | 022245-51-8 | 72 |



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Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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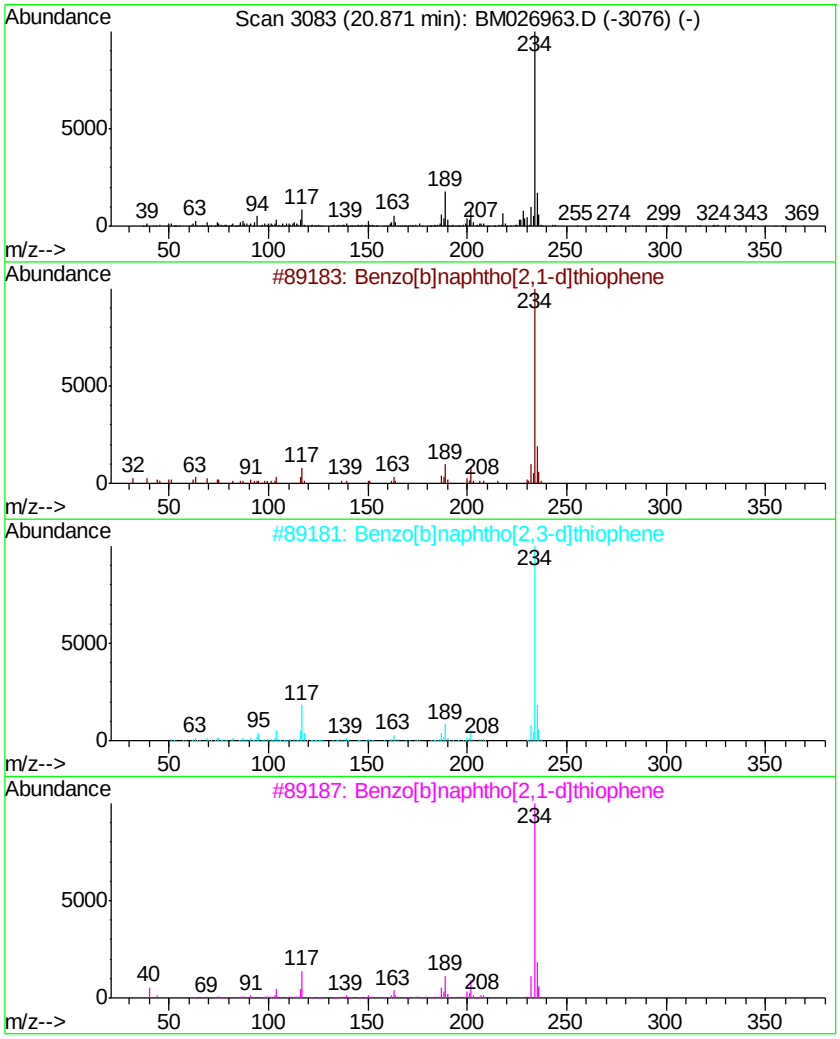
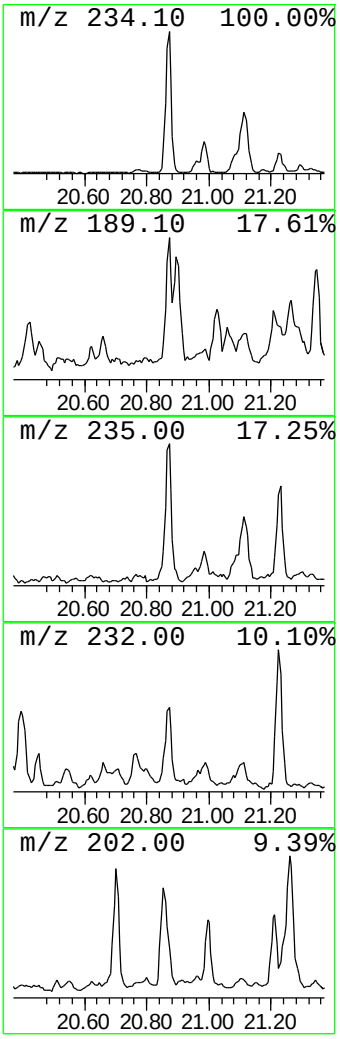
Peak Number 14 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.87 | 3.21 ng/ul | 682099 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 96 |
| 2 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 95 |
| 3 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 95 |
| 4 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 93 |
| 5 | Anthra(1,2-b)thiophene | 234 | C16H10S | 000227-86-1 | 93 |



# Library Search Compound Report

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Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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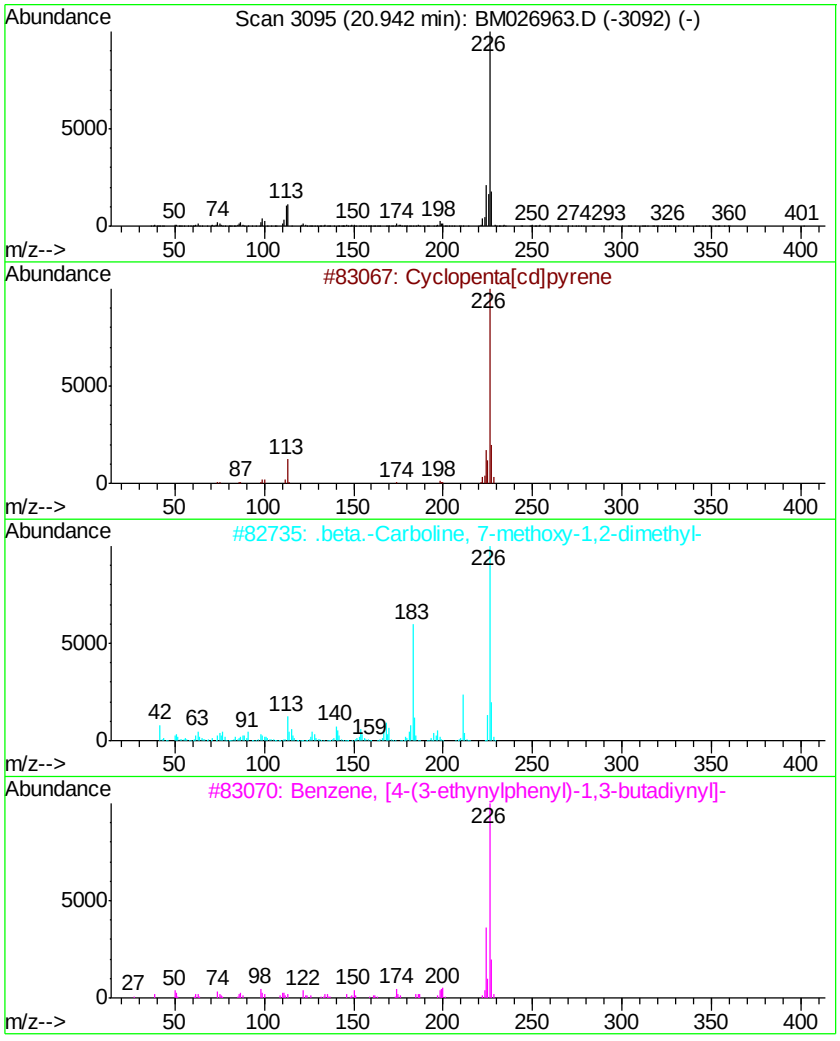
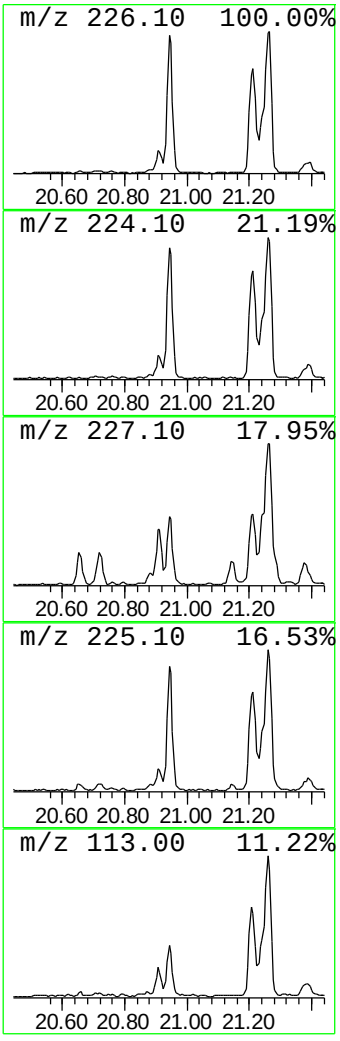
Peak Number 15 Cyclopenta[cd]pyrene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.94 | 4.58 ng/ul | 972781 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 72 |
| 2 | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2 | 42 |
| 3 | Benzene, [4-(3-ethynylphenyl)-1,... | 226 | C18H10 | 1000115-87-3 | 38 |
| 4 | 9H-Xanthen-9-one, 3-methoxy- | 226 | C14H10O3 | 003722-52-9 | 38 |
| 5 | Anthracene, 1,8-diethynyl- | 226 | C18H10 | 078053-58-4 | 37 |



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Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

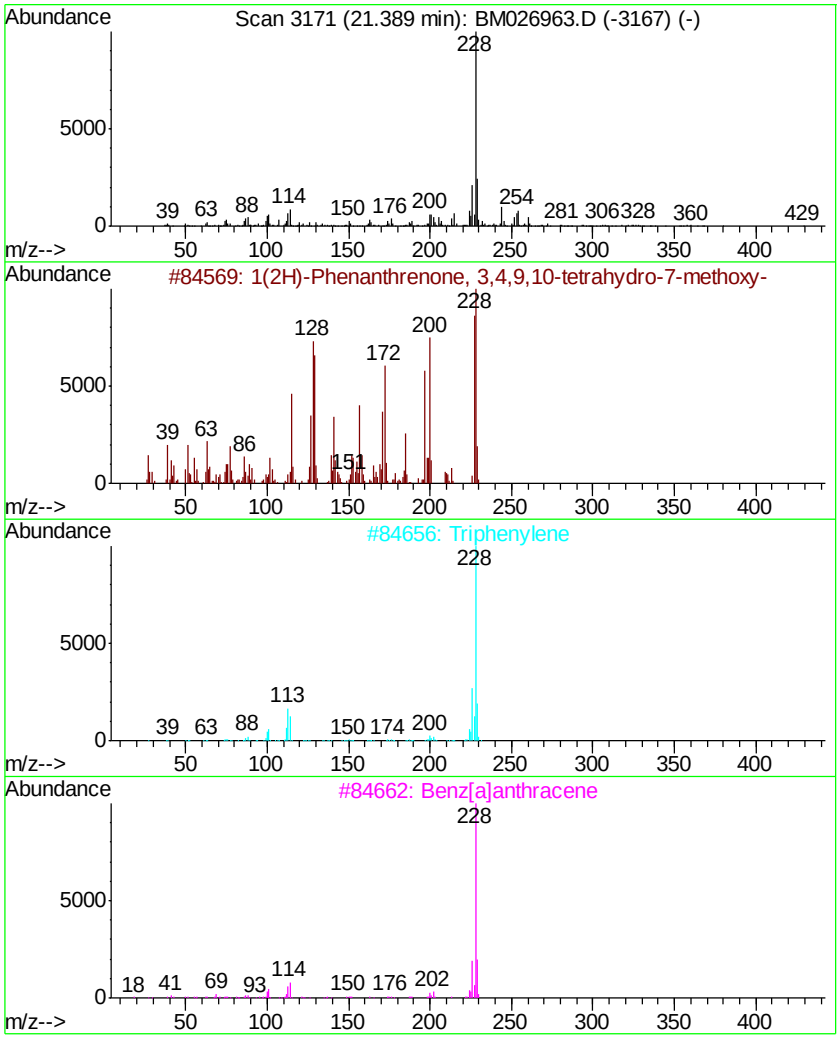
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

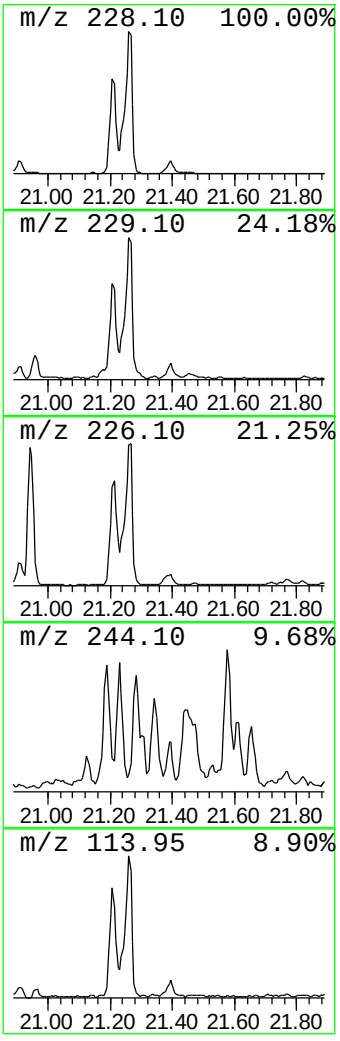
**********

Peak Number 16 1(2H)-Phenanthrenone, 3,4,9... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.39 | 2.45 ng/ul | 521361 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1(2H)-Phenanthrenone, 3,4,9,10-t... | 228 | C15H16O2 | 014427-61-3 | 87 |
| 2 | Triphenylene | 228 | C18H12 | 000217-59-4 | 64 |
| 3 | Benz[a]anthracene | 228 | C18H12 | 000056-55-3 | 64 |
| 4 | Triphenylene | 228 | C18H12 | 000217-59-4 | 64 |
| 5 | Chrysene | 228 | C18H12 | 000218-01-9 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

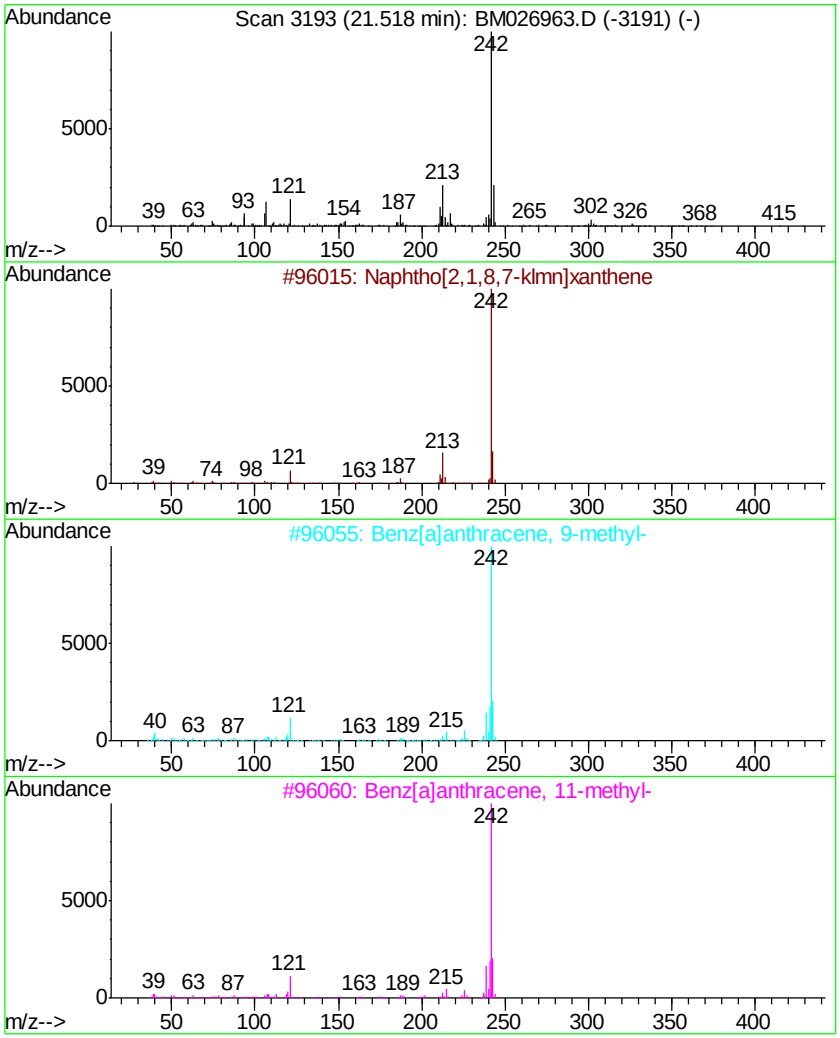
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

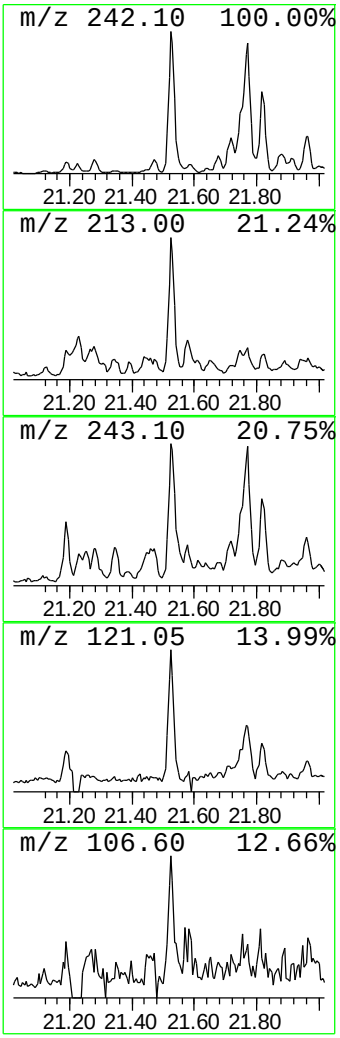
**********

Peak Number 17 Naphtho[2,1,8,7-klmn]xanthene Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.52 | 2.23 ng/ul | 473392 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[2,1,8,7-klmn]xanthene | 242 | C18H10O | 000191-37-7 | 93 |
| 2 | Benz[a]anthracene, 9-methyl- | 242 | C19H14 | 002381-16-0 | 58 |
| 3 | Benz[a]anthracene, 11-methyl- | 242 | C19H14 | 006111-78-0 | 58 |
| 4 | Benz[a]anthracene, 5-methyl- | 242 | C19H14 | 002319-96-2 | 58 |
| 5 | Benz[a]anthracene, 10-methyl- | 242 | C19H14 | 002381-15-9 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

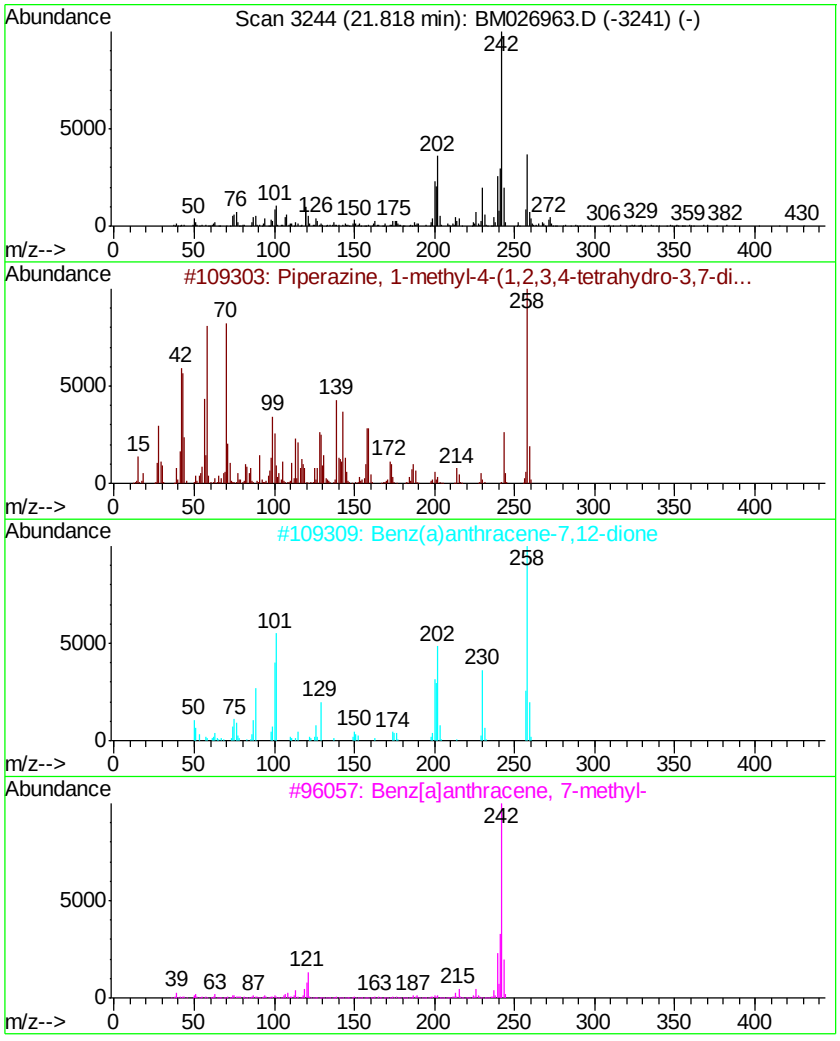
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

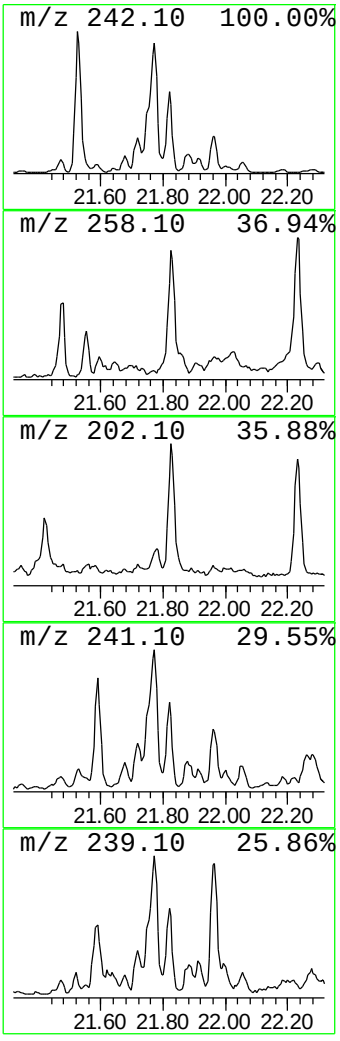
**********

Peak Number 18 Piperazine, 1-methyl-4-(1,2... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.82 | 2.59 ng/ul | 550631 | Chrysene-d12 | 21.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Piperazine, 1-methyl-4-(1,2,3,4-... | 258 | C17H26N2 | 055591-14-5 | 90 |
| 2 | Benz(a)anthracene-7,12-dione | 258 | C18H10O2 | 002498-66-0 | 84 |
| 3 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 60 |
| 4 | 5,12-Naphthacenedione | 258 | C18H10O2 | 001090-13-7 | 55 |
| 5 | Benz(a)anthracene-7,12-dione | 258 | C18H10O2 | 002498-66-0 | 55 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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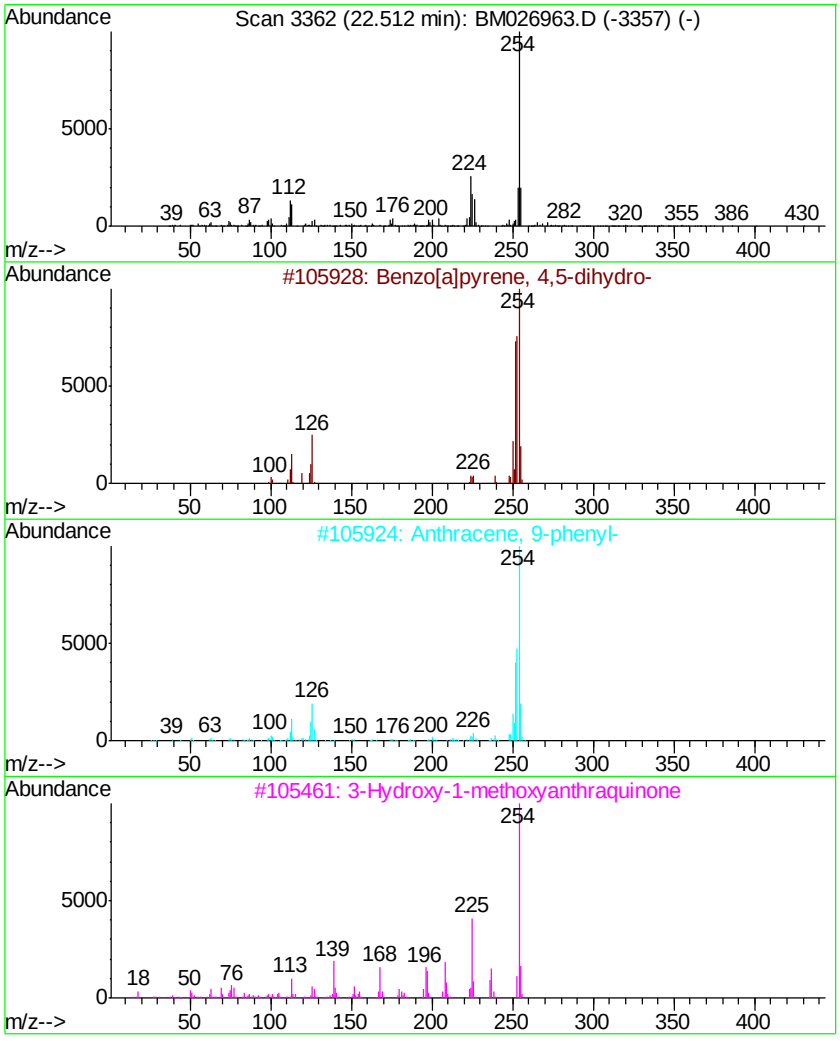
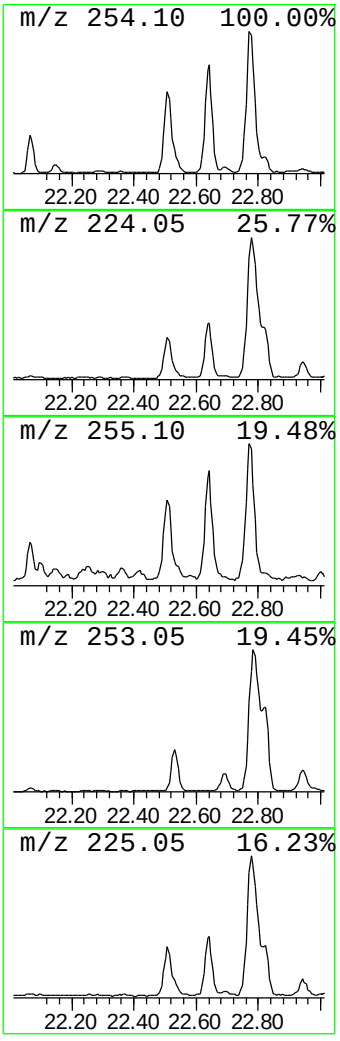
Peak Number 19 Benzo[a]pyrene, 4,5-dihydro- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.51 | 12.89 ng/ul | 974243 | Perylene-d12 | 23.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[a]pyrene, 4,5-dihydro- | 254 | C20H14 | 057652-66-1 | 59 |
| 2 | Anthracene, 9-phenyl- | 254 | C20H14 | 000602-55-1 | 53 |
| 3 | 3-Hydroxy-1-methoxyanthraquinone | 254 | C15H10O4 | 028504-24-7 | 53 |
| 4 | 1H-Pyrano[2,3-c]pyrazol-6-one, 3... | 254 | C15H14N2O2 | 1000316-21-1 | 52 |
| 5 | 9,10[1',2']-Benzenoanthracene, 9... | 254 | C20H14 | 000477-75-8 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

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

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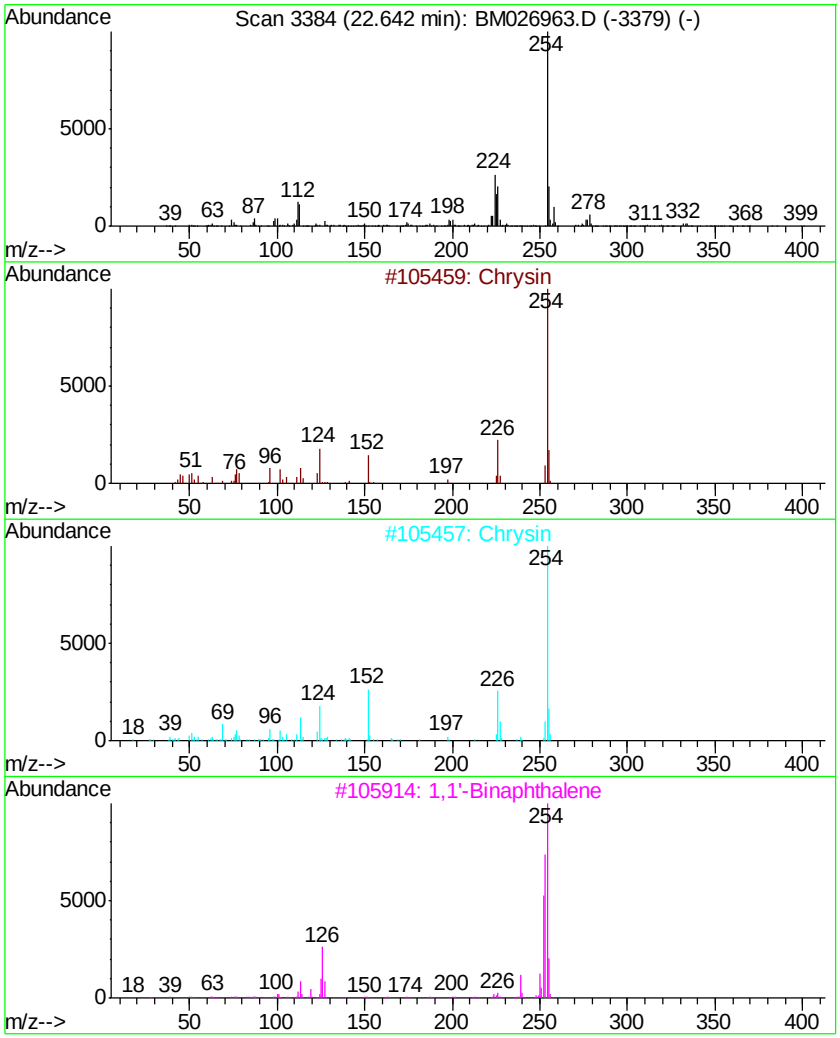
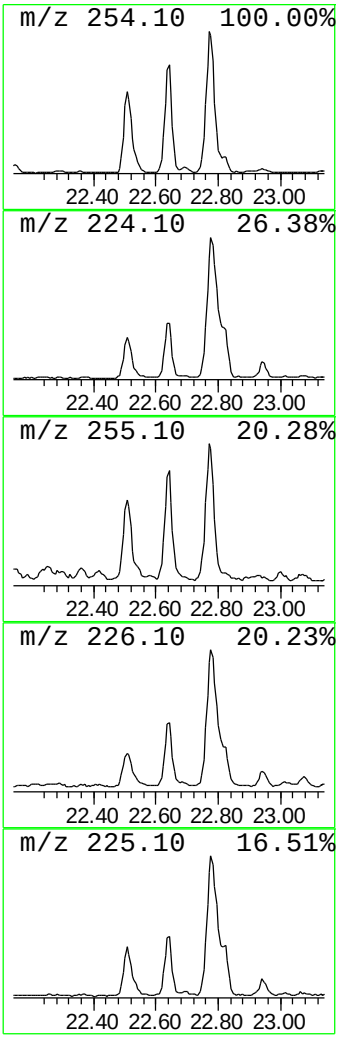
Peak Number 20 Chrysin Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.64 | 9.69 ng/ul | 732435 | Perylene-d12 | 23.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Chrysin | 254 | C15H10O4 | 000480-40-0 | 52 |
| 2 | Chrysin | 254 | C15H10O4 | 000480-40-0 | 47 |
| 3 | 1,1'-Binaphthalene | 254 | C20H14 | 000604-53-5 | 46 |
| 4 | 2,2'-Binaphthalene | 254 | C20H14 | 000612-78-2 | 43 |
| 5 | Phenanthrene, 2-phenyl- | 254 | C20H14 | 004325-77-3 | 43 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

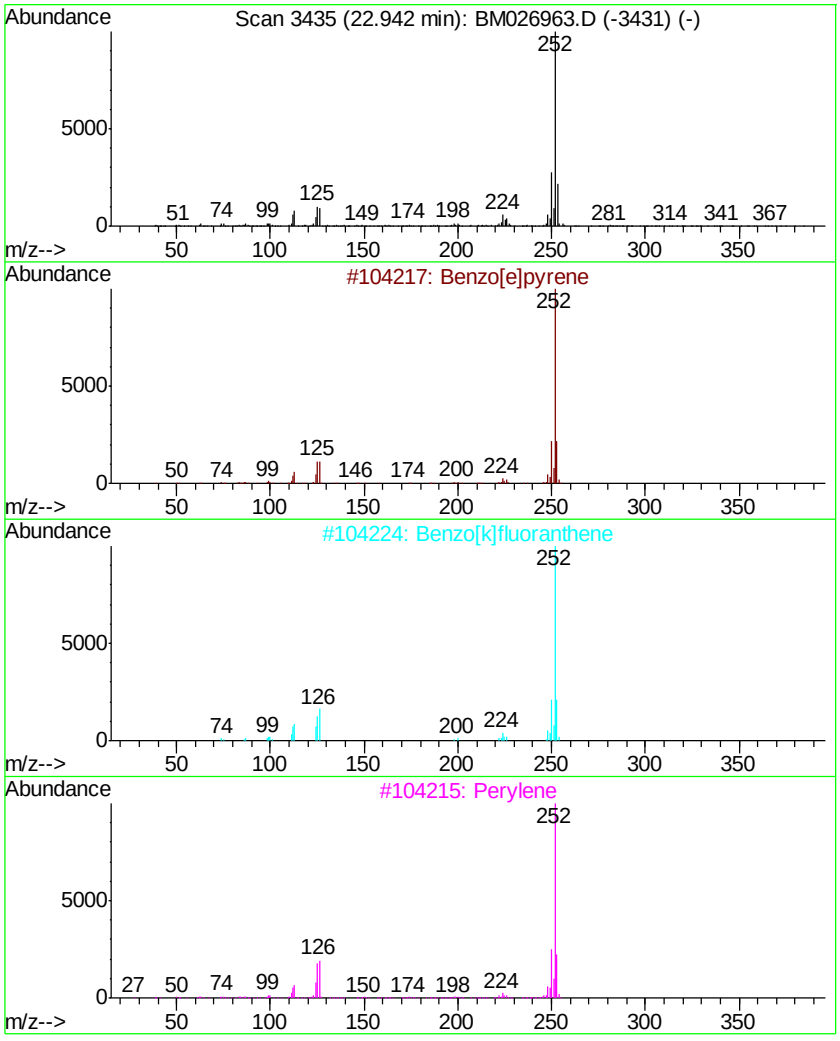
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

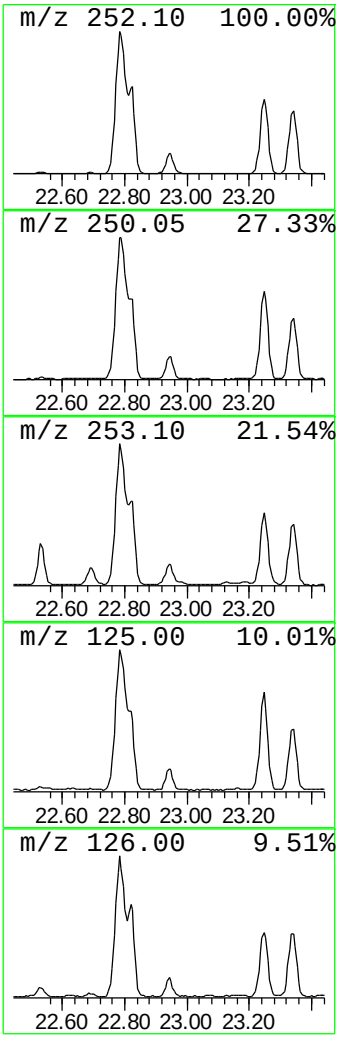
**********

Peak Number 21 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.94 | 8.75 ng/ul | 660996 | Perylene-d12 | 23.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 96 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 94 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 94 |
| 4 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 92 |
| 5 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

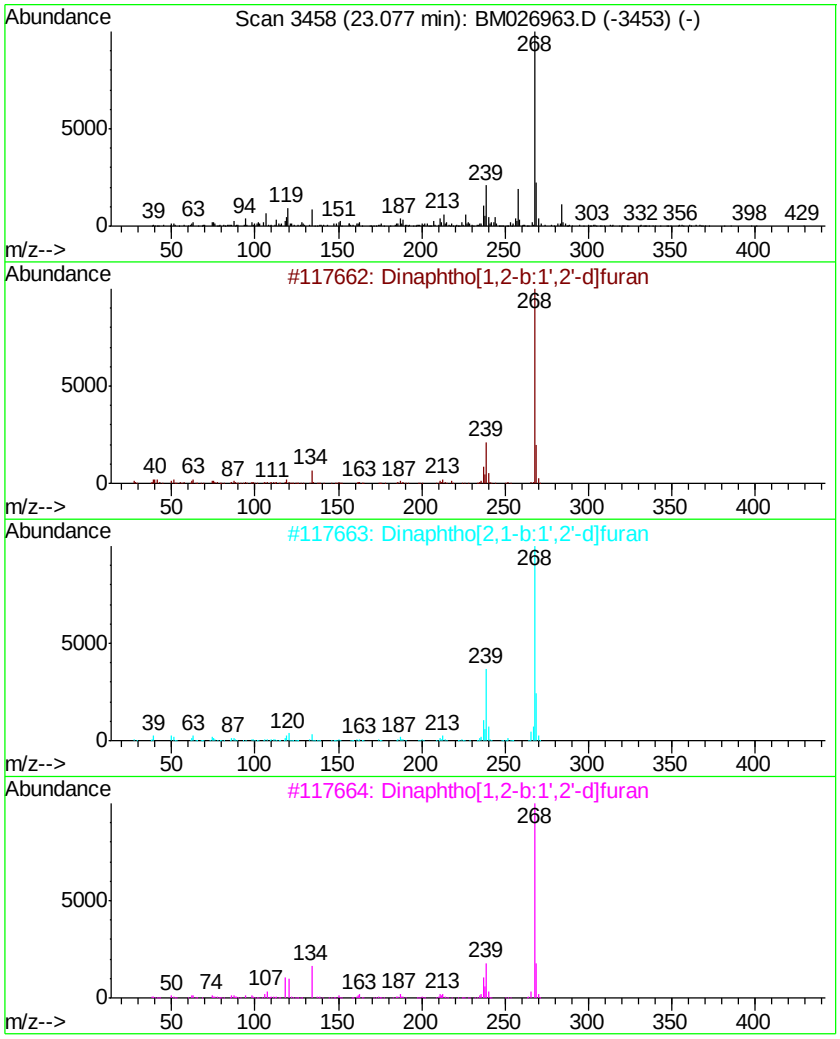
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

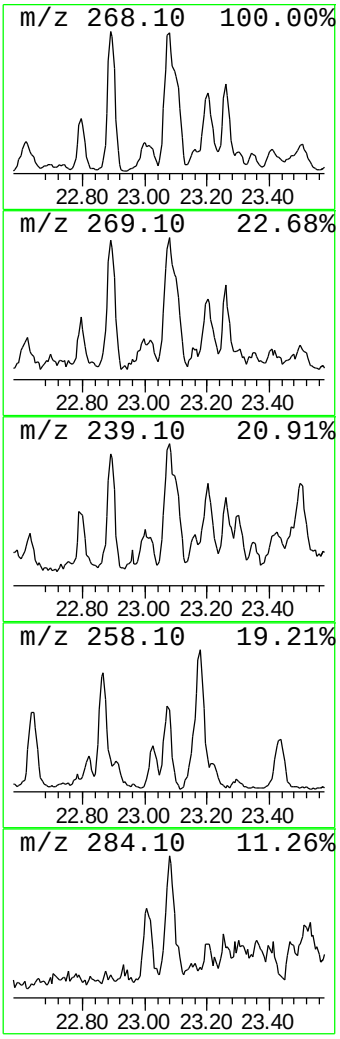
**********

Peak Number 22 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.08 | 7.70 ng/ul | 582101 | Perylene-d12 | 23.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 76 |
| 2 | Dinaphtho[2,1-b:1',2'-d]furan | 268 | C20H12O | 000194-63-8 | 68 |
| 3 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 58 |
| 4 | 4H-1-Benzopyran-4-one, 5-hydroxy... | 268 | C16H12O4 | 000520-28-5 | 53 |
| 5 | Benzo(a)pyrene 4,5-oxide | 268 | C20H12O | 037574-47-3 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.M
Quant Title : SVOA CALIBRATION

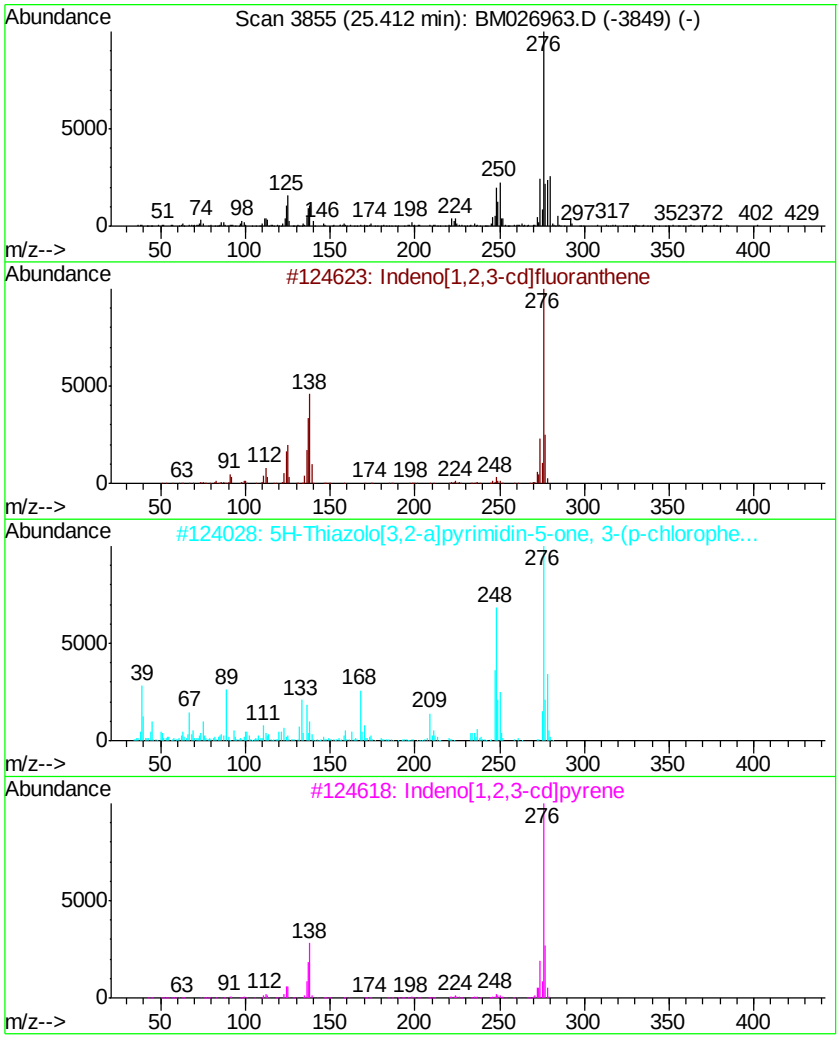
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

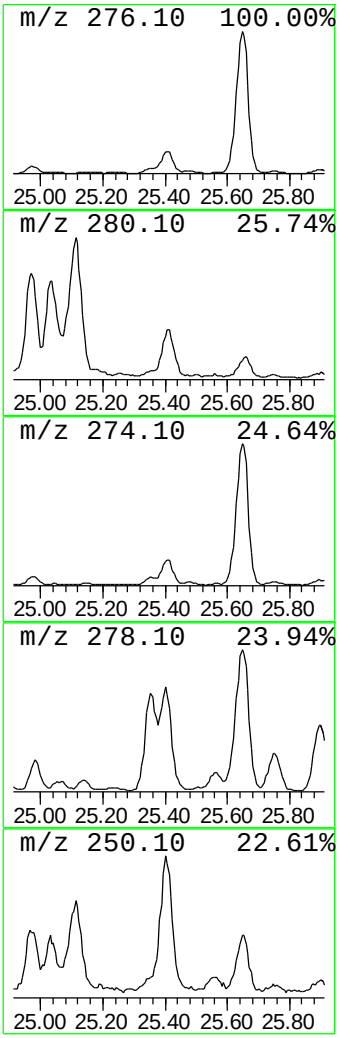
**********

Peak Number 23 Indeno[1,2,3-cd]fluoranthene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 25.41 | 12.86 ng/ul | 971624 | Perylene-d12 | 23.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indeno[1,2,3-cd]fluoranthene | 276 | C22H12 | 000193-43-1 | 50 |
| 2 | 5H-Thiazolo[3,2-a]pyrimidin-5-on... | 276 | C13H9ClN2OS | 023429-91-6 | 49 |
| 3 | Indeno[1,2,3-cd]pyrene | 276 | C22H12 | 000193-39-5 | 46 |
| 4 | Benzo[ghi]perylene | 276 | C22H12 | 000191-24-2 | 46 |
| 5 | Dibenzo[def,mno]chrysene | 276 | C22H12 | 000191-26-4 | 41 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM073120\
Data File : BM026963.D
Acq On : 31 Jul 2020 18:04
Operator : JU/CG
Sample : L3424-12 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** C0S87

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM072720MA.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 |
| (DEL) Alkane: Str... | 2.90 | 6.4 | ng/ul | 206962 | 1 | 7.66 | 646779 | 20.0 |
| Butane, 2-methoxy... | 2.98 | 20.4 | ng/ul | 659320 | 1 | 7.66 | 646779 | 20.0 |
| Phenanthrene, 1-m... | 17.95 | 2.8 | ng/ul | 193718 | 4 | 17.04 | 1377550 | 20.0 |
| 4H-Cyclopenta[def... | 18.11 | 2.1 | ng/ul | 143335 | 4 | 17.04 | 1377550 | 20.0 |
| Anthrone | 18.30 | 3.5 | ng/ul | 243365 | 4 | 17.04 | 1377550 | 20.0 |
| 9,10-Anthracenedione | 18.45 | 3.5 | ng/ul | 244078 | 4 | 17.04 | 1377550 | 20.0 |
| Naphthalic anhydride | 18.83 | 2.4 | ng/ul | 161588 | 4 | 17.04 | 1377550 | 20.0 |
| 10-Octadecenoic a... | 18.91 | 3.3 | ng/ul | 227651 | 4 | 17.04 | 1377550 | 20.0 |
| Cyclopenta(def)ph... | 18.97 | 6.0 | ng/ul | 413255 | 4 | 17.04 | 1377550 | 20.0 |
| 11H-Benzo[b]fluorene | 19.80 | 2.2 | ng/ul | 475826 | 5 | 21.22 | 4251350 | 20.0 |
| Pyrene, 1-methyl- | 19.92 | 3.9 | ng/ul | 821816 | 5 | 21.22 | 4251350 | 20.0 |
| Pyrene, 2-methyl- | 20.11 | 2.6 | ng/ul | 552311 | 5 | 21.22 | 4251350 | 20.0 |
| 11H-Benzo[a]fluor... | 20.70 | 2.6 | ng/ul | 561202 | 5 | 21.22 | 4251350 | 20.0 |
| Benzo[b]naphtho[2... | 20.87 | 3.2 | ng/ul | 682099 | 5 | 21.22 | 4251350 | 20.0 |
| Cyclopenta[cd]pyrene | 20.94 | 4.6 | ng/ul | 972781 | 5 | 21.22 | 4251350 | 20.0 |
| 1(2H)-Phenanthren... | 21.39 | 2.5 | ng/ul | 521361 | 5 | 21.22 | 4251350 | 20.0 |
| Naphtho[2,1,8,7-k... | 21.52 | 2.2 | ng/ul | 473392 | 5 | 21.22 | 4251350 | 20.0 |
| Piperazine, 1-met... | 21.82 | 2.6 | ng/ul | 550631 | 5 | 21.22 | 4251350 | 20.0 |
| Benzo[a]pyrene, 4... | 22.51 | 12.9 | ng/ul | 974243 | 6 | 23.44 | 1511230 | 20.0 |
| Chrysin | 22.64 | 9.7 | ng/ul | 732435 | 6 | 23.44 | 1511230 | 20.0 |
| Benzo[e]pyrene | 22.94 | 8.8 | ng/ul | 660996 | 6 | 23.44 | 1511230 | 20.0 |
| Dinaphtho[1,2-b:1... | 23.08 | 7.7 | ng/ul | 582101 | 6 | 23.44 | 1511230 | 20.0 |
| Indeno[1,2,3-cd]f... | 25.41 | 12.9 | ng/ul | 971624 | 6 | 23.44 | 1511230 | 20.0 |