LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

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_N\METHODS\SOM-EPA-BN021220MA.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 | 6.593 | 605 | 613 | 630 | rBV2 | 133508 | 308881 | 1.81% | 0.263% |
| 2 | 6.740 | 632 | 638 | 652 | rVB | 95626 | 174208 | 1.02% | 0.149% |
| 3 | 6.922 | 663 | 669 | 679 | rVB | 149444 | 253900 | 1.49% | 0.216% |
| 4 | 7.375 | 738 | 746 | 757 | rBV | 304003 | 509573 | 2.98% | 0.434% |
| 5 | 7.904 | 829 | 836 | 856 | rBV | 111630 | 291185 | 1.70% | 0.248% |
| 6 | 8.098 | 864 | 869 | 883 | rBV | 147292 | 296036 | 1.73% | 0.252% |
| 7 | 8.522 | 936 | 941 | 953 | rBV | 126823 | 244973 | 1.43% | 0.209% |
| 8 | 9.234 | 1055 | 1062 | 1078 | rBV | 101667 | 208324 | 1.22% | 0.178% |
| 9 | 9.787 | 1150 | 1156 | 1173 | rBV2 | 122218 | 305342 | 1.79% | 0.260% |
| 10 | 10.122 | 1206 | 1213 | 1223 | rBV | 423931 | 721497 | 4.22% | 0.615% |
| 11 | 13.445 | 1772 | 1778 | 1783 | rBV | 315869 | 461577 | 2.70% | 0.393% |
| 12 | 13.704 | 1815 | 1822 | 1825 | rBV | 360662 | 582121 | 3.41% | 0.496% |
| 13 | 13.733 | 1825 | 1827 | 1839 | rVB | 194625 | 280713 | 1.64% | 0.239% |
| 14 | 14.016 | 1869 | 1875 | 1882 | rBV | 629275 | 928138 | 5.43% | 0.791% |
| 15 | 14.304 | 1918 | 1924 | 1928 | rVV2 | 65885 | 144020 | 0.84% | 0.123% |
| 16 | 15.022 | 2037 | 2046 | 2051 | rBV | 495871 | 690528 | 4.04% | 0.589% |
| 17 | 15.198 | 2067 | 2076 | 2080 | rBV3 | 99545 | 194401 | 1.14% | 0.166% |
| 18 | 15.769 | 2167 | 2173 | 2177 | rBV2 | 135715 | 224155 | 1.31% | 0.191% |
| 19 | 16.516 | 2294 | 2300 | 2306 | rBV2 | 74628 | 152783 | 0.89% | 0.130% |
| 20 | 16.774 | 2338 | 2344 | 2347 | rVV | 759889 | 1084475 | 6.34% | 0.924% |
| 21 | 16.816 | 2347 | 2351 | 2356 | rVV | 1571279 | 2051065 | 12.00% | 1.748% |
| 22 | 16.874 | 2356 | 2361 | 2363 | rVV | 548021 | 777340 | 4.55% | 0.663% |
| 23 | 16.910 | 2363 | 2367 | 2374 | rVV | 1968249 | 2793983 | 16.34% | 2.382% |
| 24 | 16.974 | 2374 | 2378 | 2384 | rVB3 | 99678 | 178216 | 1.04% | 0.152% |
| 25 | 17.186 | 2406 | 2414 | 2418 | rBV3 | 220024 | 419872 | 2.46% | 0.358% |
| 26 | 17.222 | 2418 | 2420 | 2429 | rVV3 | 85243 | 185174 | 1.08% | 0.158% |
| 27 | 17.304 | 2429 | 2434 | 2439 | rVV4 | 142144 | 222161 | 1.30% | 0.189% |
| 28 | 17.486 | 2461 | 2465 | 2472 | rVB4 | 71098 | 131117 | 0.77% | 0.112% |
| 29 | 17.651 | 2486 | 2493 | 2497 | rBV2 | 214352 | 330555 | 1.93% | 0.282% |
| 30 | 17.698 | 2497 | 2501 | 2508 | rVB2 | 362105 | 527223 | 3.08% | 0.449% |
| 31 | 17.780 | 2508 | 2515 | 2520 | rBV | 267719 | 398108 | 2.33% | 0.339% |
| 32 | 17.845 | 2520 | 2526 | 2531 | rBV2 | 474045 | 907863 | 5.31% | 0.774% |
| 33 | 18.133 | 2570 | 2575 | 2577 | rVV3 | 86342 | 145609 | 0.85% | 0.124% |
| 34 | 18.216 | 2584 | 2589 | 2594 | rBV2 | 151146 | 240679 | 1.41% | 0.205% |

LSC Area Percent Report

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Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

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_N\METHODS\SOM-EPA-BN021220MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 18.416 | 2619 | 2623 | 2627 | rVV3 | 94396 | 142827 | 0.84% | 0.122% |
| 36 | 18.504 | 2634 | 2638 | 2642 | rVB | 152984 | 205921 | 1.20% | 0.176% |
| 37 | 18.580 | 2647 | 2651 | 2656 | rBV | 161129 | 279778 | 1.64% | 0.238% |
| 38 | 18.645 | 2656 | 2662 | 2666 | rBV4 | 145441 | 254579 | 1.49% | 0.217% |
| 39 | 18.733 | 2671 | 2677 | 2684 | rBV | 1674225 | 2408357 | 14.09% | 2.053% |
| 40 | 18.857 | 2691 | 2698 | 2703 | rBV | 8329866 | 11005284 | 64.38% | 9.381% |
| 41 | 18.957 | 2711 | 2715 | 2719 | rVV | 333263 | 452743 | 2.65% | 0.386% |
| 42 | 19.004 | 2719 | 2723 | 2727 | rVB2 | 157903 | 198172 | 1.16% | 0.169% |
| 43 | 19.086 | 2732 | 2737 | 2742 | rBV2 | 451448 | 693508 | 4.06% | 0.591% |
| 44 | 19.221 | 2749 | 2760 | 2768 | rBV | 10947647 | 17095369 | 100.00% | 14.573% |
| 45 | 19.292 | 2768 | 2772 | 2781 | rVB2 | 214809 | 414811 | 2.43% | 0.354% |
| 46 | 19.404 | 2786 | 2791 | 2796 | rBV | 420119 | 625178 | 3.66% | 0.533% |
| 47 | 19.463 | 2797 | 2801 | 2807 | rVB2 | 682717 | 1001029 | 5.86% | 0.853% |
| 48 | 19.557 | 2809 | 2817 | 2822 | rBV4 | 639745 | 1539063 | 9.00% | 1.312% |
| 49 | 19.698 | 2834 | 2841 | 2843 | rBV4 | 859544 | 1836533 | 10.74% | 1.566% |
| 50 | 19.774 | 2850 | 2854 | 2858 | rBV2 | 154481 | 250143 | 1.46% | 0.213% |
| 51 | 19.821 | 2858 | 2862 | 2866 | rVV | 552199 | 694364 | 4.06% | 0.592% |
| 52 | 19.880 | 2866 | 2872 | 2875 | rVV2 | 995735 | 1673365 | 9.79% | 1.426% |
| 53 | 19.915 | 2875 | 2878 | 2883 | rVV | 253295 | 378782 | 2.22% | 0.323% |
| 54 | 19.963 | 2884 | 2886 | 2890 | rVB2 | 146275 | 165625 | 0.97% | 0.141% |
| 55 | 20.021 | 2891 | 2896 | 2900 | rBV | 712744 | 1015041 | 5.94% | 0.865% |
| 56 | 20.063 | 2900 | 2903 | 2908 | rVB3 | 461780 | 691359 | 4.04% | 0.589% |
| 57 | 20.157 | 2915 | 2919 | 2923 | rVB2 | 343380 | 443540 | 2.59% | 0.378% |
| 58 | 20.274 | 2936 | 2939 | 2945 | rBV5 | 201735 | 437781 | 2.56% | 0.373% |
| 59 | 20.386 | 2956 | 2958 | 2962 | rVB3 | 176382 | 188972 | 1.11% | 0.161% |
| 60 | 20.445 | 2963 | 2968 | 2970 | rBV3 | 204224 | 313068 | 1.83% | 0.267% |
| 61 | 20.480 | 2970 | 2974 | 2980 | rVV | 722218 | 957322 | 5.60% | 0.816% |
| 62 | 20.639 | 2997 | 3001 | 3005 | rBV | 755109 | 987868 | 5.78% | 0.842% |
| 63 | 20.680 | 3005 | 3008 | 3011 | rVV2 | 873809 | 993196 | 5.81% | 0.847% |
| 64 | 20.715 | 3011 | 3014 | 3022 | rVV2 | 1289162 | 2303641 | 13.48% | 1.964% |
| 65 | 20.780 | 3022 | 3025 | 3029 | rVB | 547880 | 667304 | 3.90% | 0.569% |
| 66 | 20.827 | 3031 | 3033 | 3036 | rVB | 284208 | 289224 | 1.69% | 0.247% |
| 67 | 20.880 | 3039 | 3042 | 3050 | rVB3 | 266005 | 532199 | 3.11% | 0.454% |
| 68 | 20.986 | 3051 | 3060 | 3063 | rBV | 4285505 | 6806933 | 39.82% | 5.802% |
| 69 | 21.039 | 3066 | 3069 | 3079 | rVB | 4960667 | 6182073 | 36.16% | 5.270% |
| 70 | 21.121 | 3080 | 3083 | 3085 | rBV3 | 131490 | 189219 | 1.11% | 0.161% |
| 71 | 21.151 | 3085 | 3088 | 3090 | rVV | 656270 | 685082 | 4.01% | 0.584% |

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Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

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_N\METHODS\SOM-EPA-BN021220MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 21.180 | 3090 | 3093 | 3096 | rVB4 | 428344 | 473295 | 2.77% | 0.403% |
| 73 | 21.304 | 3110 | 3114 | 3120 | rVB2 | 495675 | 715341 | 4.18% | 0.610% |
| 74 | 21.362 | 3120 | 3124 | 3127 | rBV2 | 356267 | 438334 | 2.56% | 0.374% |
| 75 | 21.439 | 3135 | 3137 | 3141 | rVB2 | 150434 | 162664 | 0.95% | 0.139% |
| 76 | 21.486 | 3141 | 3145 | 3148 | rBV3 | 328498 | 454977 | 2.66% | 0.388% |
| 77 | 21.533 | 3148 | 3153 | 3157 | rVV | 677477 | 1059322 | 6.20% | 0.903% |
| 78 | 21.598 | 3159 | 3164 | 3168 | rVB3 | 469632 | 842400 | 4.93% | 0.718% |
| 79 | 21.645 | 3170 | 3172 | 3175 | rVB | 144288 | 155591 | 0.91% | 0.133% |
| 80 | 21.721 | 3181 | 3185 | 3187 | rBV2 | 397304 | 548775 | 3.21% | 0.468% |
| 81 | 21.745 | 3187 | 3189 | 3194 | rVB2 | 331501 | 368010 | 2.15% | 0.314% |
| 82 | 21.992 | 3227 | 3231 | 3234 | rBV2 | 461926 | 597122 | 3.49% | 0.509% |
| 83 | 22.027 | 3234 | 3237 | 3245 | rVB | 570656 | 786819 | 4.60% | 0.671% |
| 84 | 22.121 | 3250 | 3253 | 3257 | rBV | 133889 | 181987 | 1.06% | 0.155% |
| 85 | 22.251 | 3271 | 3275 | 3285 | rVB4 | 444003 | 983516 | 5.75% | 0.838% |
| 86 | 22.374 | 3292 | 3296 | 3299 | rBV2 | 183649 | 245273 | 1.43% | 0.209% |
| 87 | 22.492 | 3309 | 3316 | 3320 | rBV | 4869521 | 9578323 | 56.03% | 8.165% |
| 88 | 22.639 | 3337 | 3341 | 3346 | rVB | 540831 | 808416 | 4.73% | 0.689% |
| 89 | 22.762 | 3358 | 3362 | 3369 | rBV3 | 233059 | 513715 | 3.00% | 0.438% |
| 90 | 22.921 | 3383 | 3389 | 3394 | rBV | 1930697 | 3119351 | 18.25% | 2.659% |
| 91 | 22.968 | 3394 | 3397 | 3399 | rVV | 346075 | 467886 | 2.74% | 0.399% |
| 92 | 23.009 | 3399 | 3404 | 3409 | rVB | 2713838 | 4206408 | 24.61% | 3.586% |
| 93 | 23.092 | 3414 | 3418 | 3422 | rVV | 597985 | 1045853 | 6.12% | 0.892% |
| 94 | 23.139 | 3422 | 3426 | 3438 | rVB | 722778 | 1413256 | 8.27% | 1.205% |
| 95 | 23.586 | 3498 | 3502 | 3510 | rVB | 411934 | 717227 | 4.20% | 0.611% |
| 96 | 24.251 | 3610 | 3615 | 3621 | rVB2 | 208864 | 391180 | 2.29% | 0.333% |
| 97 | 24.715 | 3691 | 3694 | 3701 | rVB4 | 160514 | 331812 | 1.94% | 0.283% |
| 98 | 25.139 | 3757 | 3766 | 3774 | rVB2 | 1196945 | 2987233 | 17.47% | 2.546% |
| 99 | 25.362 | 3799 | 3804 | 3812 | rVB3 | 239865 | 536895 | 3.14% | 0.458% |
| 100 | 25.750 | 3863 | 3870 | 3877 | rBV | 314718 | 814358 | 4.76% | 0.694% |

Sum of corrected areas: 117310387

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
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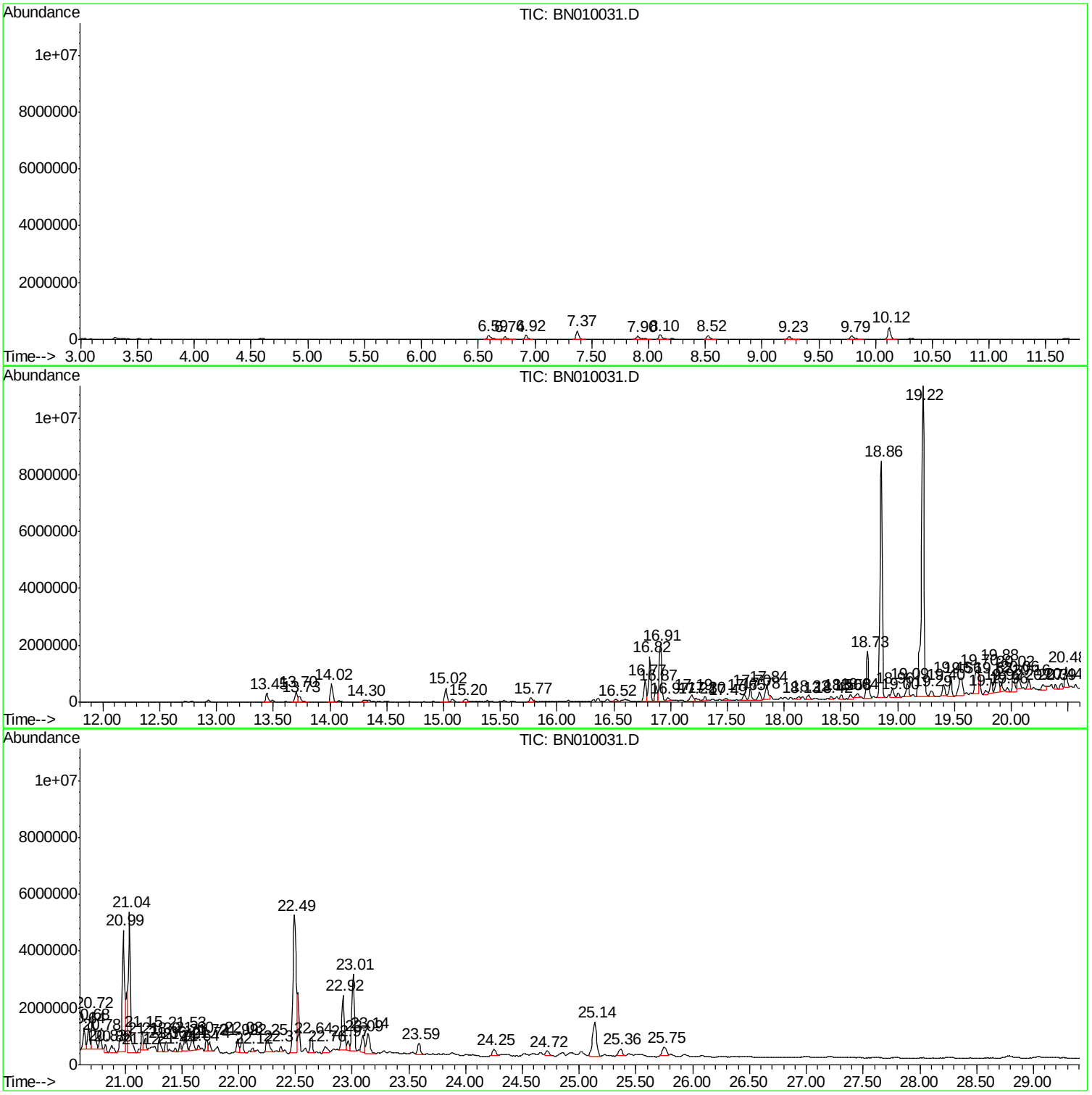
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
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Quant Title : SVOA CALIBRATION

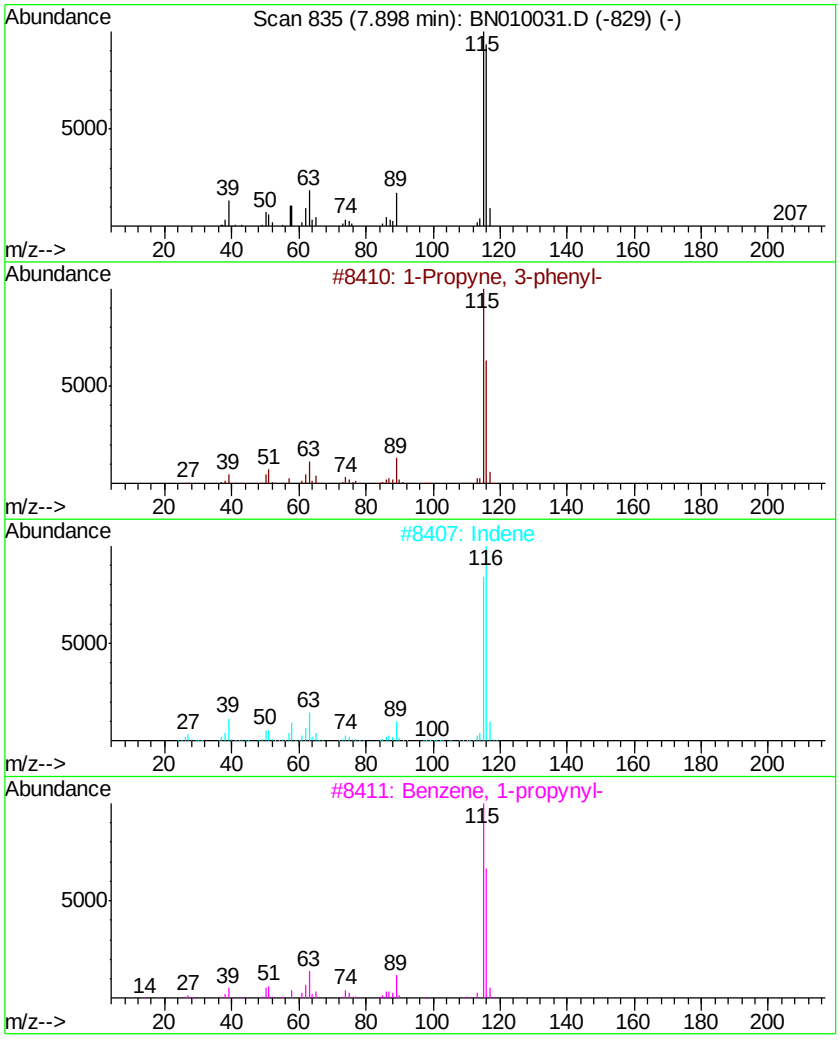
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

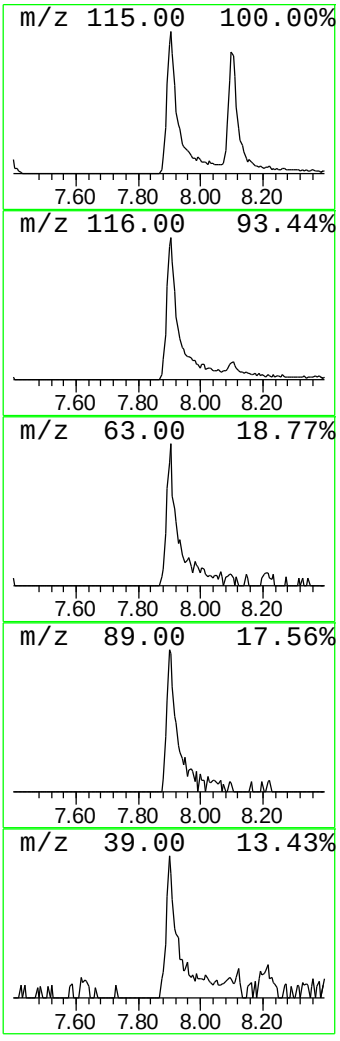
**********

Peak Number 1 1-Propyne, 3-phenyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.90 | 11.43 ng/ul | 291185 | 1,4-Dichlorobenzene-d4 | 7.37 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propyne, 3-phenyl- | 116 | C9H8 | 010147-11-2 | 94 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 93 |
| 3 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 93 |
| 4 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 90 |
| 5 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 90 |



Library Search Compound Report

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**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

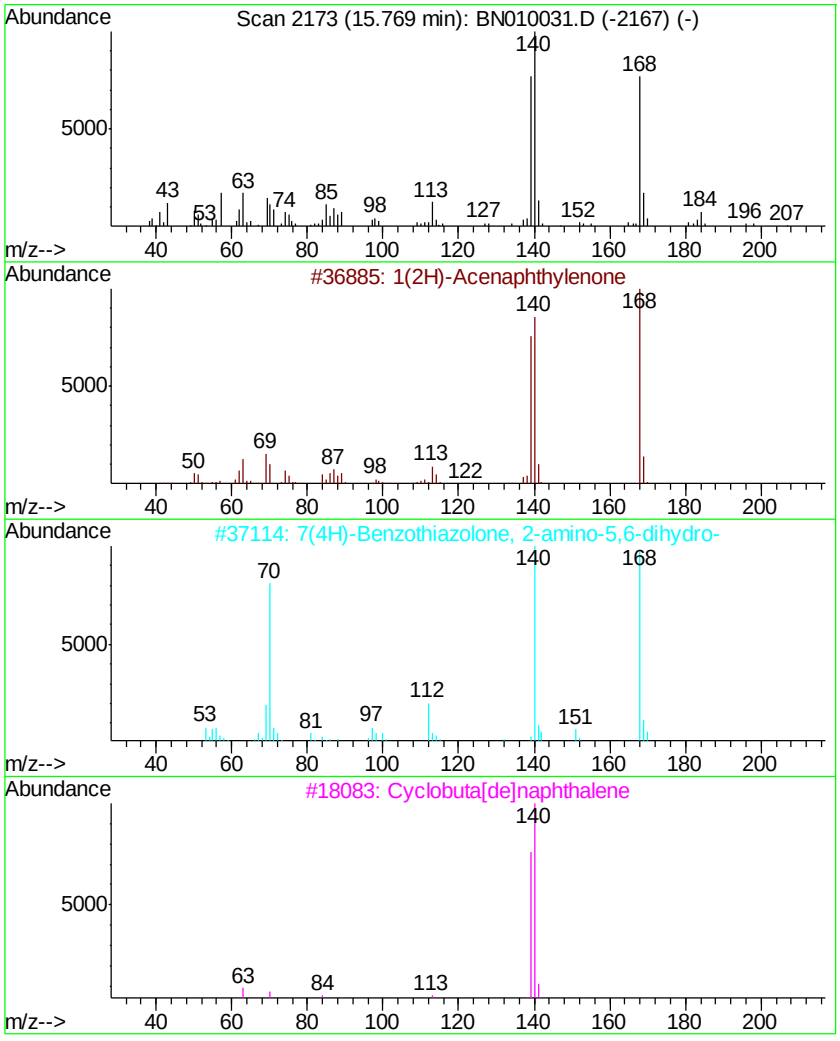
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

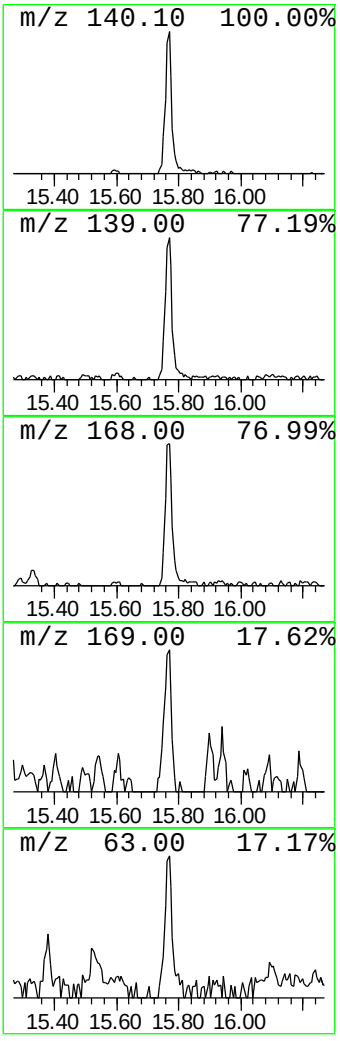
**********

Peak Number 2 1(2H)-Acenaphthylenone Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.77 | 4.13 ng/ul | 224155 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1(2H)-Acenaphthylenone | 168 | C12H8O | 002235-15-6 | 81 |
| 2 | 7(4H)-Benzothiazolone, 2-amino-5... | 168 | C7H8N2OS | 017583-10-7 | 52 |
| 3 | Cyclobuta[de]naphthalene | 140 | C11H8 | 024973-91-9 | 49 |
| 4 | Thiophene, 2,5-dipropyl- | 168 | C10H16S | 054411-07-3 | 47 |
| 5 | 2-Amino-5,6-dihydro-4H-cyclopent... | 140 | C6H8N2S | 053051-97-1 | 43 |



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**Instrument :** BNA_N
**ClientSampleId :** DBDN2

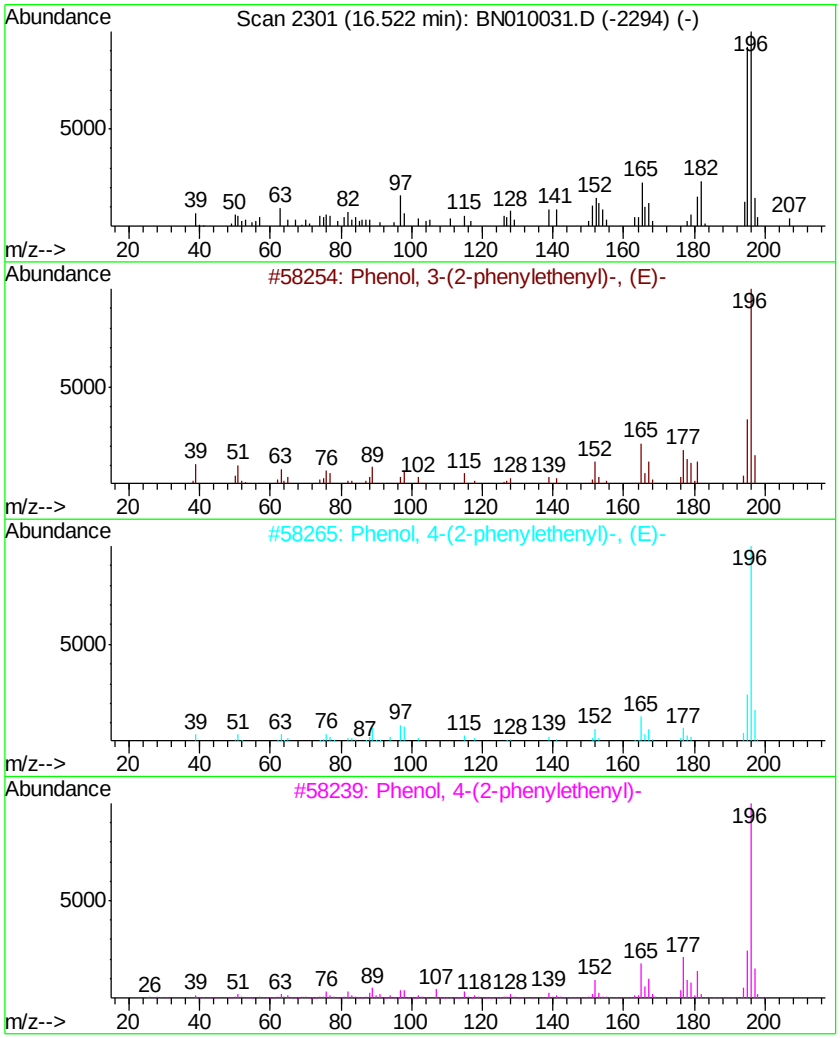
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

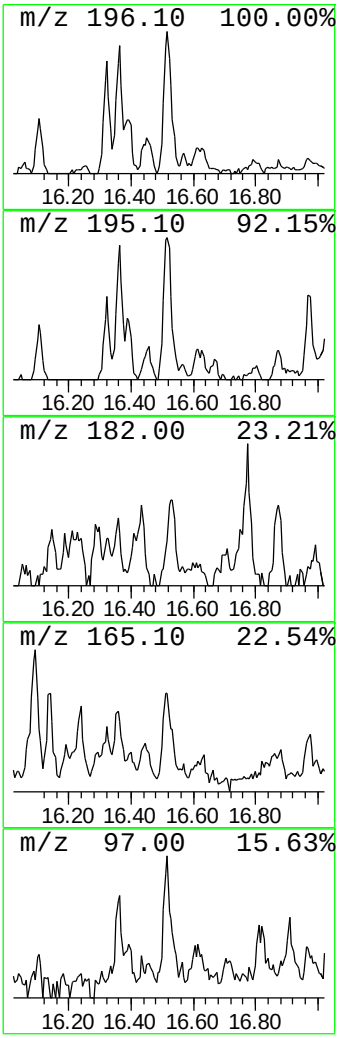
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Phenol, 3-(2-phenylethenyl)... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.52 | 2.82 ng/ul | 152783 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 3-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 017861-18-6 | 78 |
| 2 | Phenol, 4-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 006554-98-9 | 64 |
| 3 | Phenol, 4-(2-phenylethenyl)- | 196 | C14H12O | 003839-46-1 | 64 |
| 4 | Benzo[b]benzofuran-2-carboxaldehyde | 196 | C13H8O2 | 1000351-56-0 | 62 |
| 5 | Perimidine, 2-ethyl- | 196 | C13H12N2 | 028478-13-9 | 58 |



Library Search Compound Report

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Acq On : 29 Feb 2020 19:00
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Sample : L1615-08
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ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

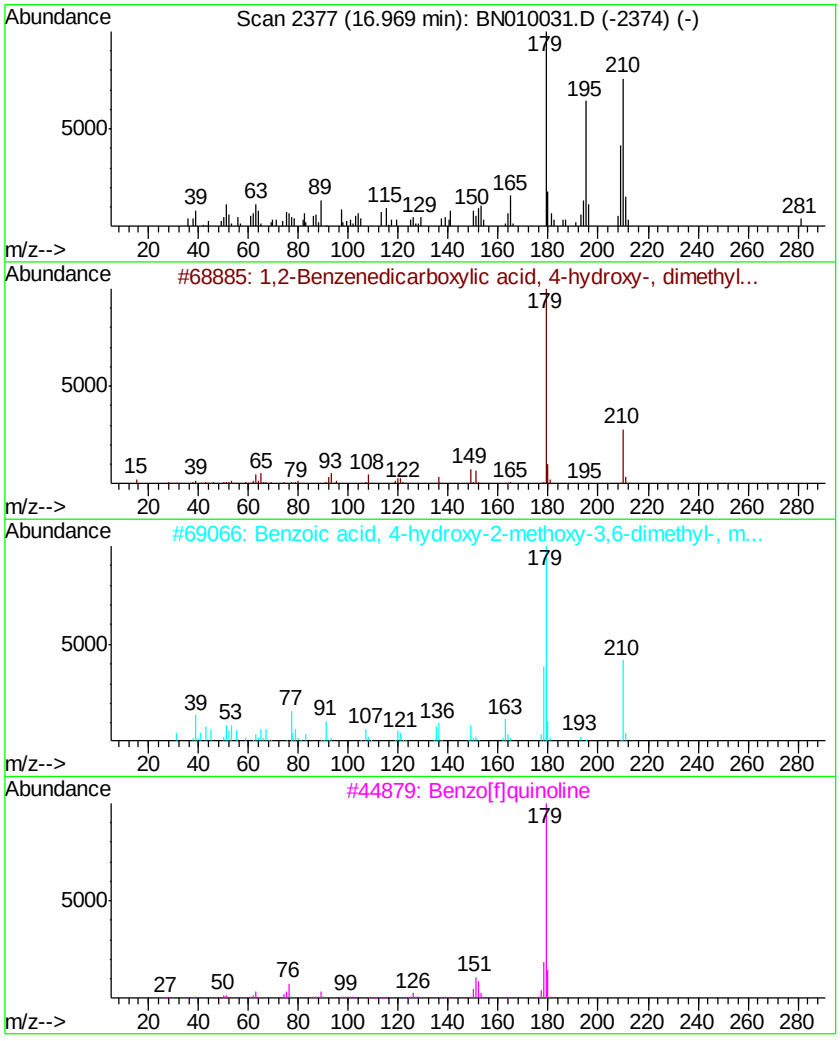
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

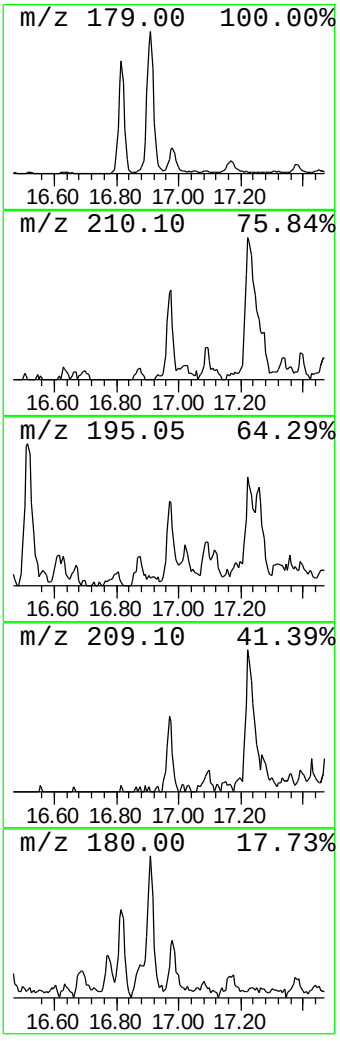
**********

Peak Number 4 unknown-01 Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.97 | 3.29 ng/ul | 178216 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2-Benzenedicarboxylic acid, 4-... | 210 | C10H10O5 | 022479-95-4 | 46 |
| 2 | Benzoic acid, 4-hydroxy-2-methox... | 210 | C11H14O4 | 034874-75-4 | 43 |
| 3 | Benzo[f]quinoline | 179 | C13H9N | 000085-02-9 | 38 |
| 4 | Benzo[f]quinoline | 179 | C13H9N | 000085-02-9 | 38 |
| 5 | Acridine | 179 | C13H9N | 000260-94-6 | 38 |



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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

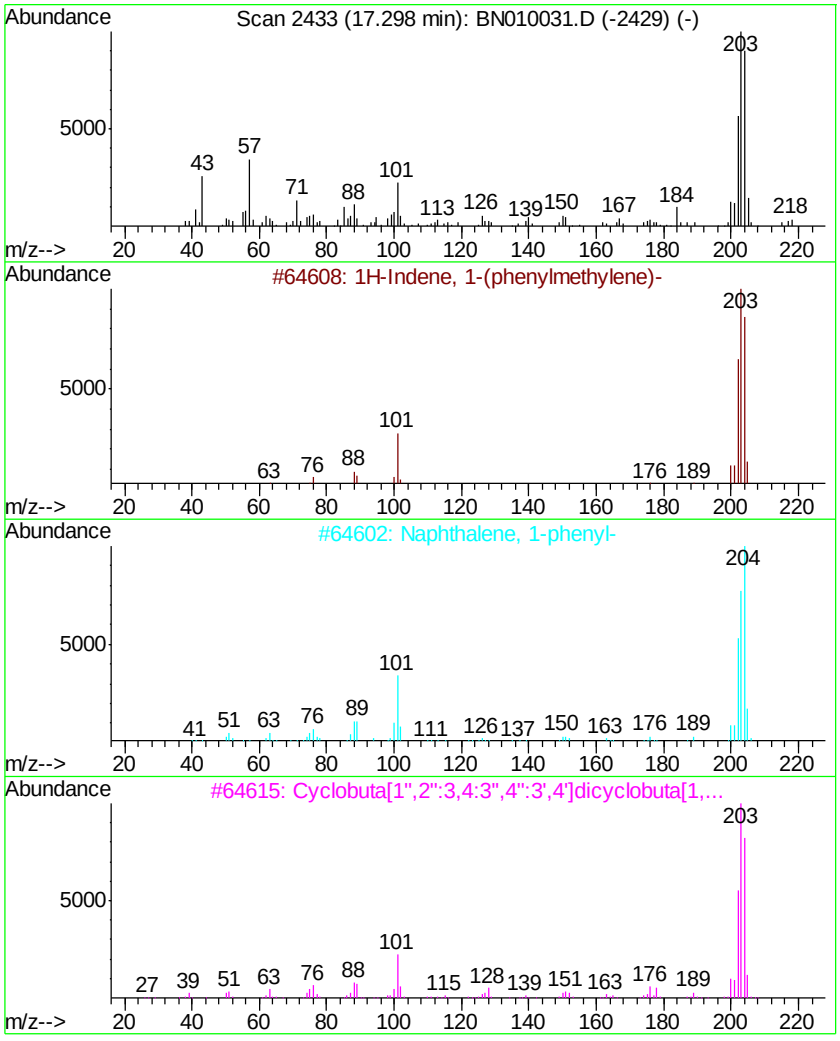
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

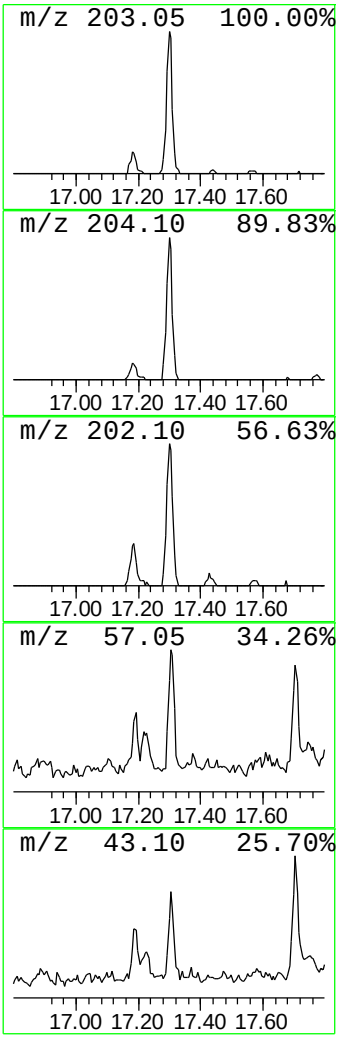
**********

Peak Number 5 1H-Indene, 1-(phenylmethyle... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.30 | 4.10 ng/ul | 222161 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 1-(phenylmethylene)- | 204 | C16H12 | 005394-86-5 | 92 |
| 2 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 83 |
| 3 | Cyclobuta[1'',2'':3,4:3'',4'':3'... | 204 | C16H12 | 006574-36-3 | 83 |
| 4 | Anthracene, 9-ethenyl- | 204 | C16H12 | 002444-68-0 | 64 |
| 5 | 1,4-Ethenoanthracene, 1,4-dihydro- | 204 | C16H12 | 027765-96-4 | 55 |



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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

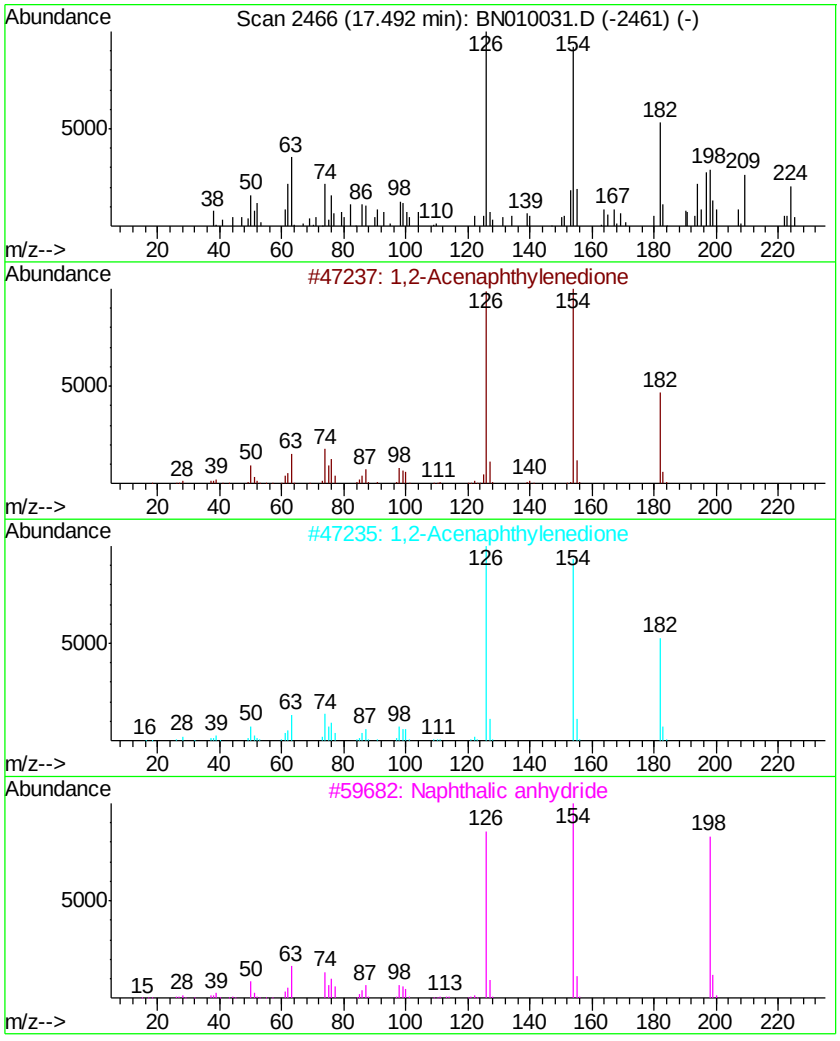
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

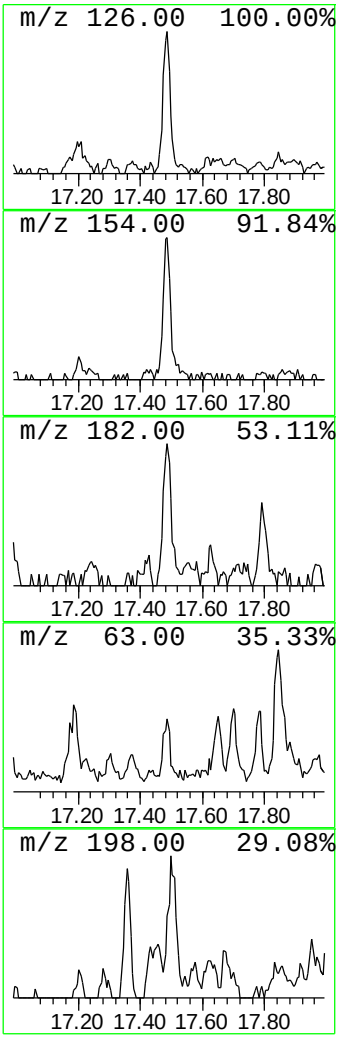
**********

Peak Number 6 1,2-Acenaphthylenedione Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.49 | 2.42 ng/ul | 131117 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2-Acenaphthylenedione | 182 | C12H6O2 | 000082-86-0 | 95 |
| 2 | 1,2-Acenaphthylenedione | 182 | C12H6O2 | 000082-86-0 | 86 |
| 3 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 83 |
| 4 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 78 |
| 5 | Naphthalic anhydride | 198 | C12H6O3 | 000081-84-5 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

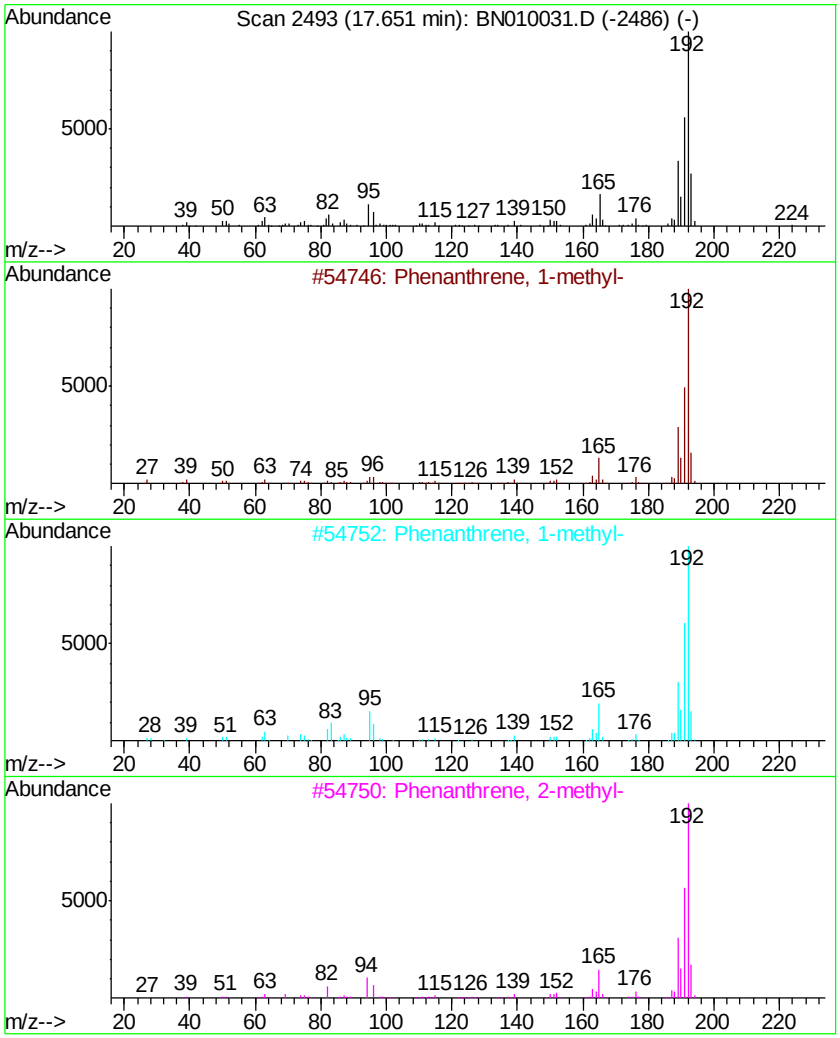
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

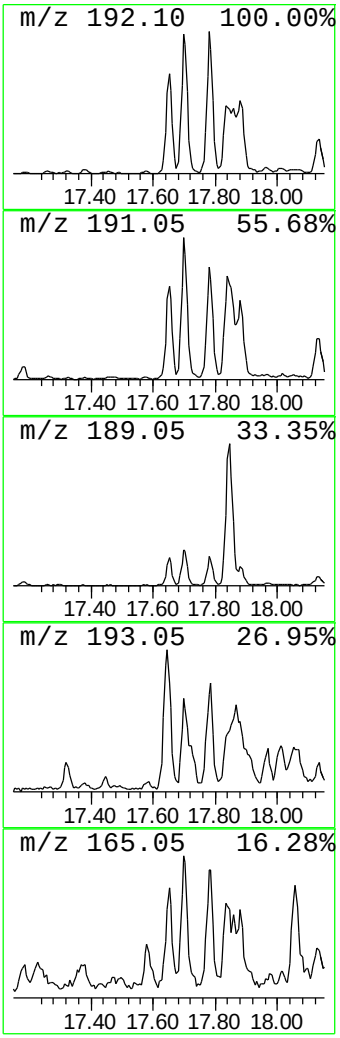
**********

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.65 | 6.10 ng/ul | 330555 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 95 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |



# Library Search Compound Report

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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

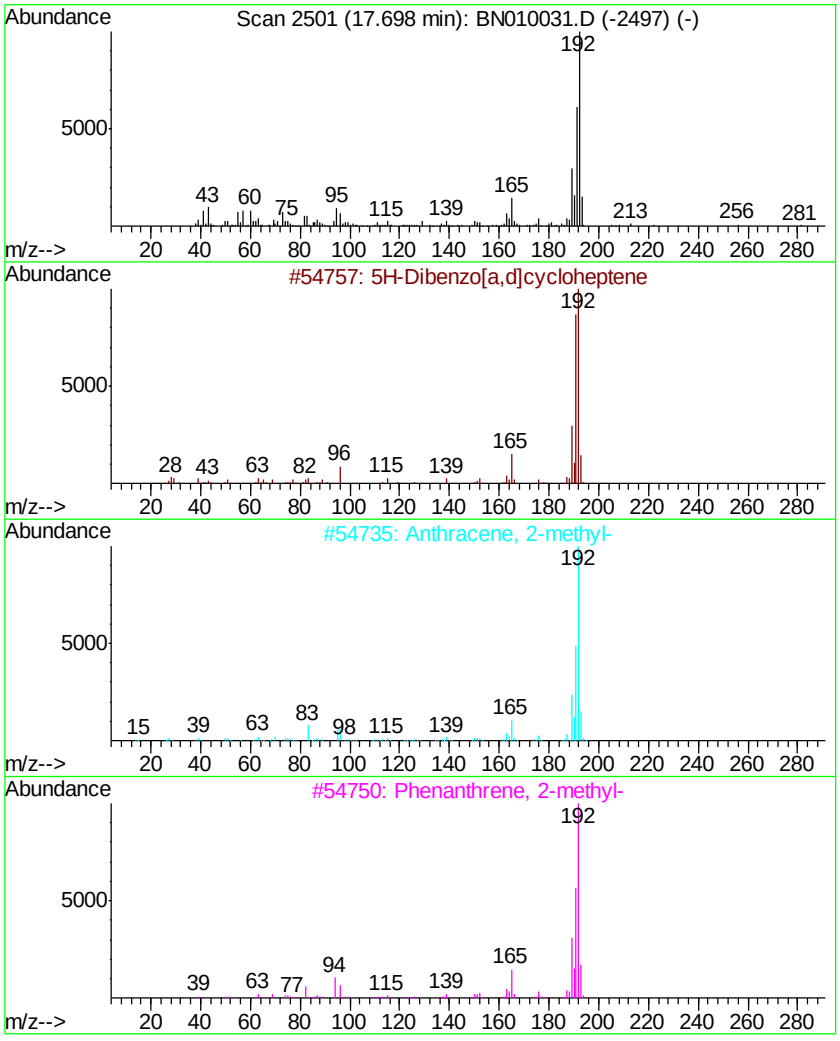
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

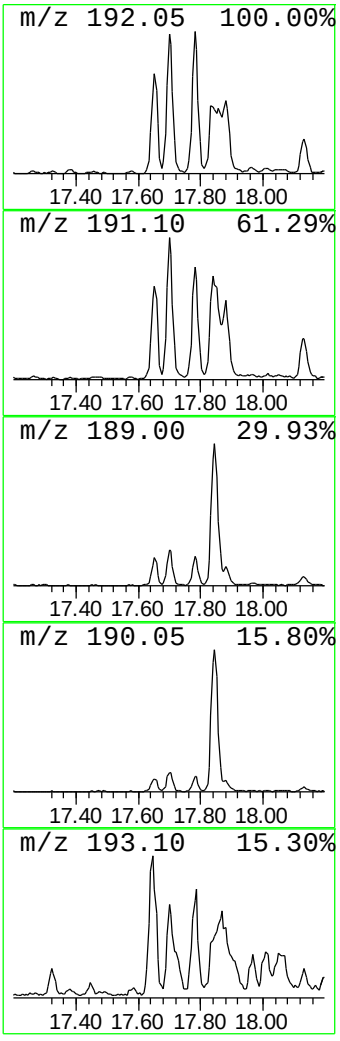
**********

Peak Number 8 5H-Dibenzo[a,d]cycloheptene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.70 | 9.72 ng/ul | 527223 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 94 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 93 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |



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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

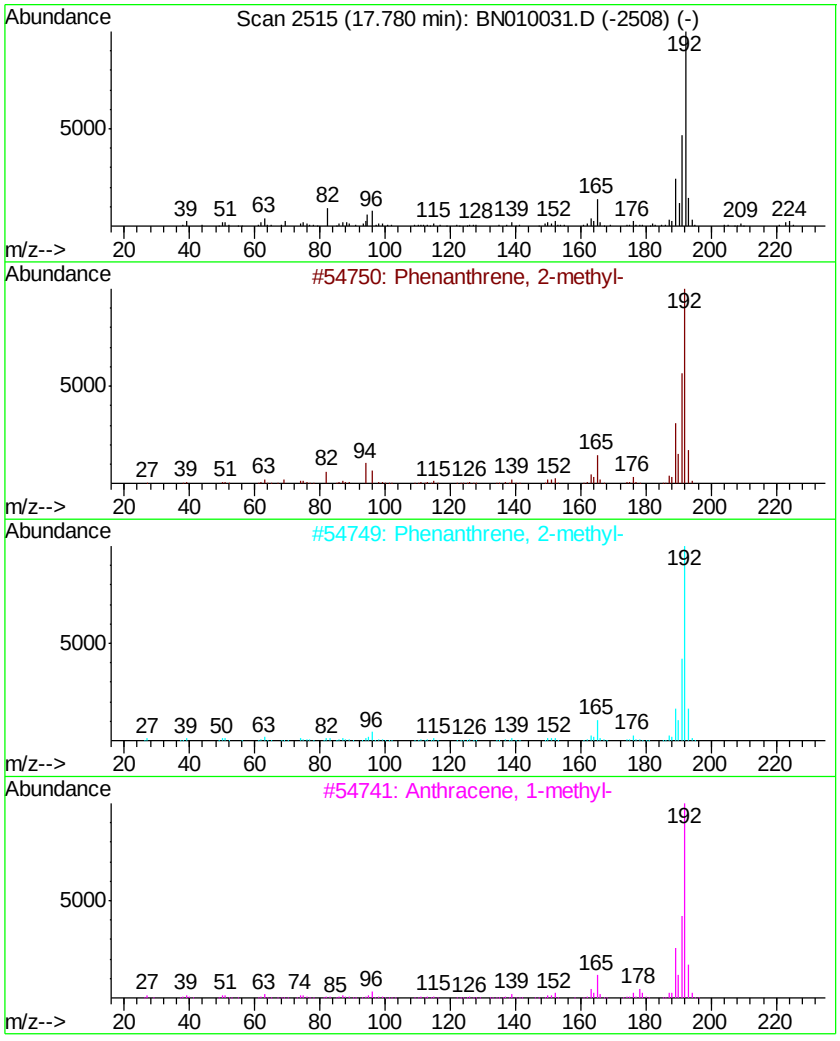
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

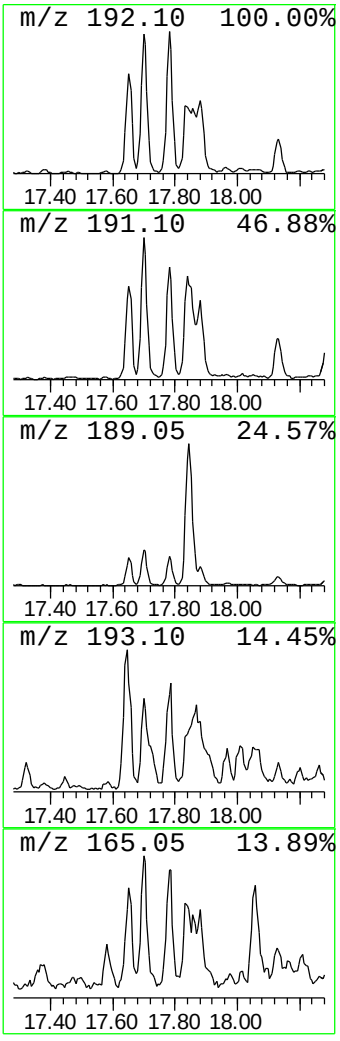
**********

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.78 | 7.34 ng/ul | 398108 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

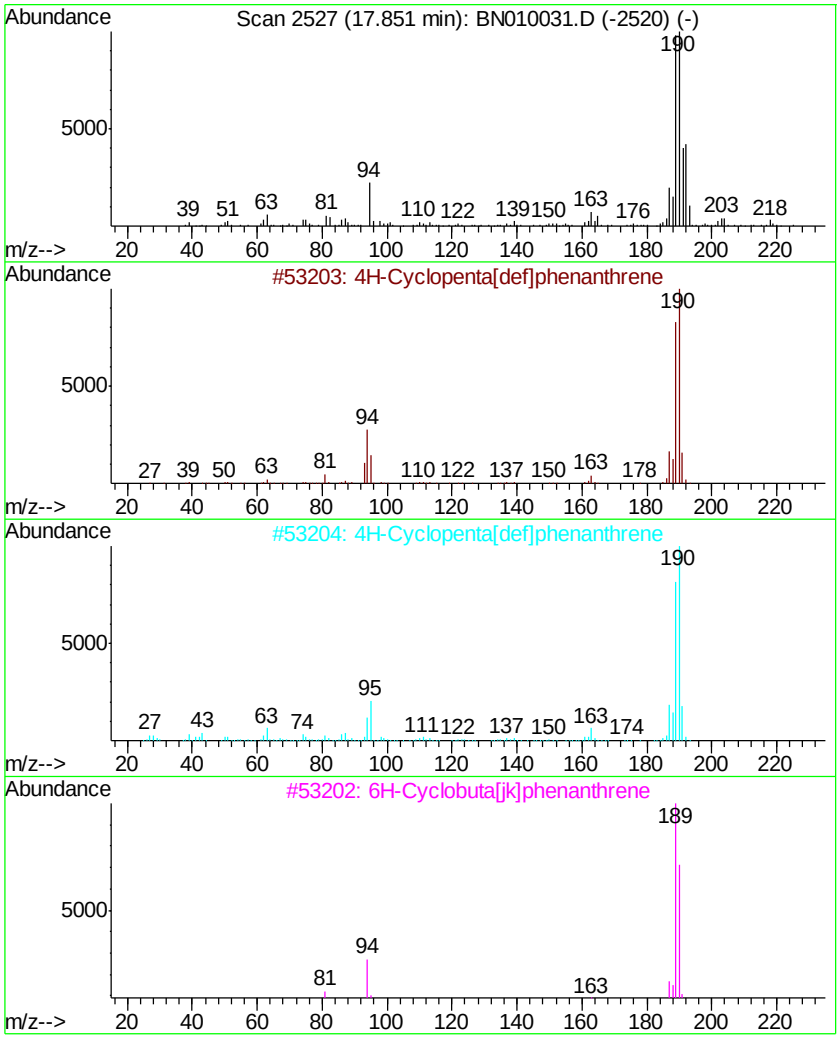
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

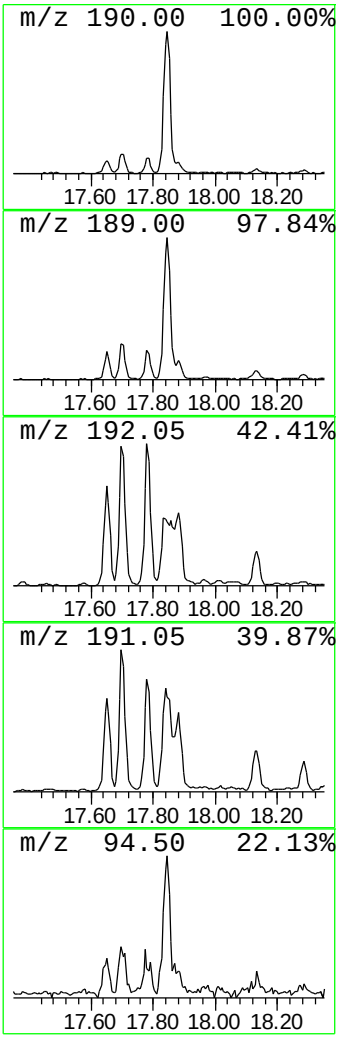
**********

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.85 | 16.74 ng/ul | 907863 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 76 |
| 3 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 64 |
| 4 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 40 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

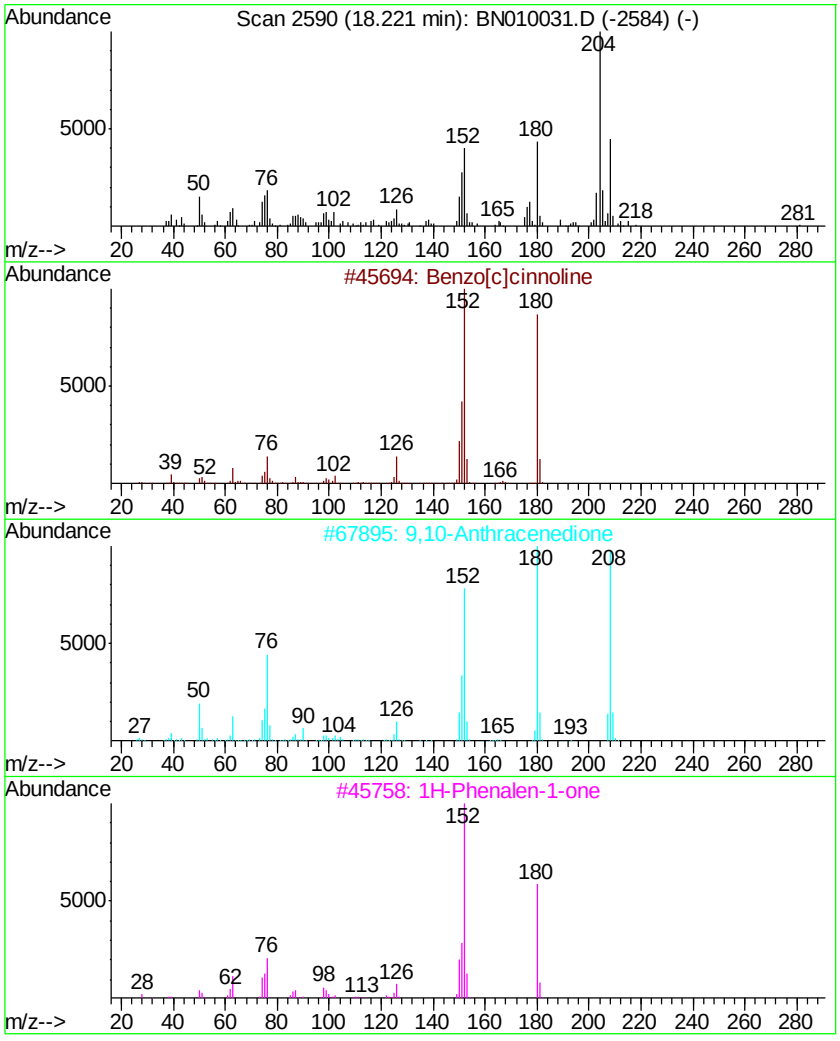
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

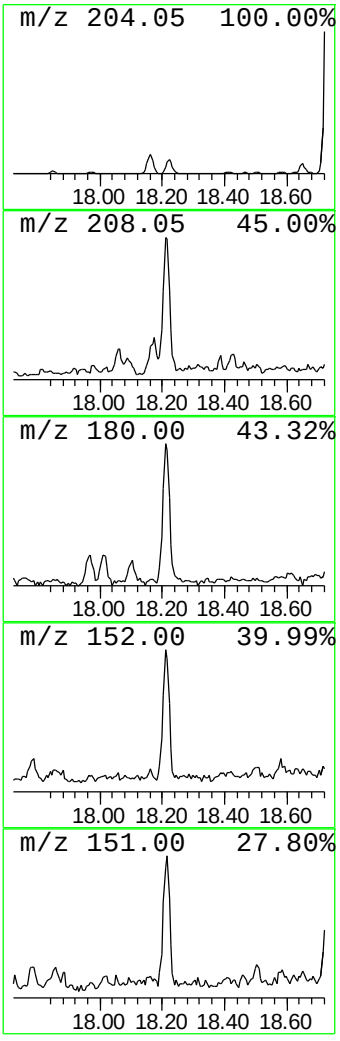
**********

Peak Number 12 Benzo[c]cinnoline Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.22 | 4.44 ng/ul | 240679 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 89 |
| 2 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 78 |
| 3 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 70 |
| 4 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 62 |
| 5 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 60 |



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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

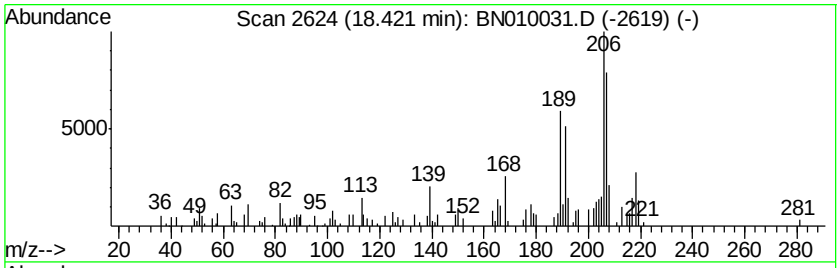
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

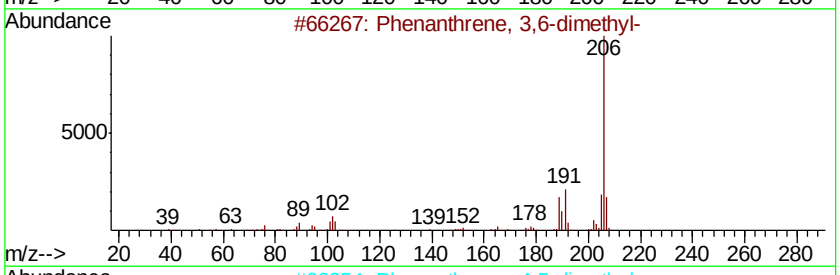
**********

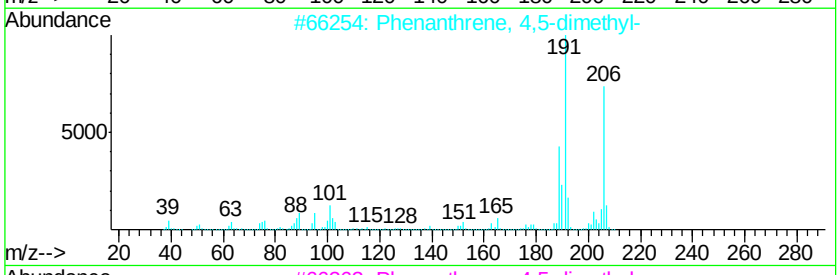
Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 35

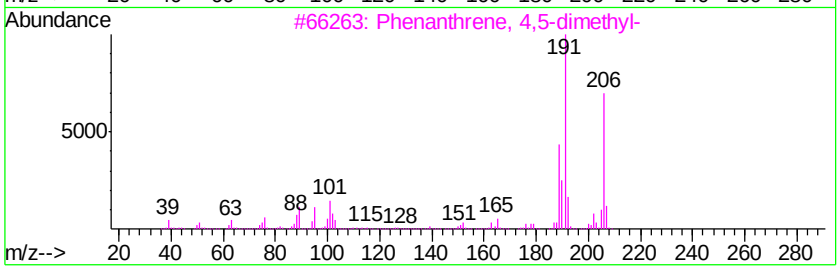
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.42 | 2.63 ng/ul | 142827 | Phenanthrene-d10 | 16.77 |

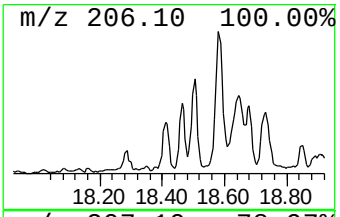
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 76 |
| 2 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 76 |
| 3 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 76 |
| 4 | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14 | 035099-60-6 | 70 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 68 |

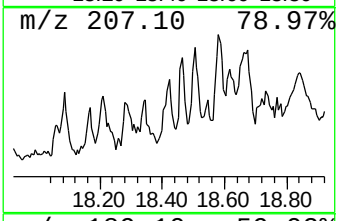


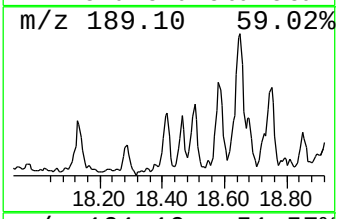



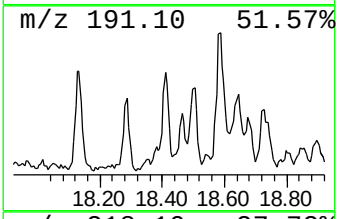



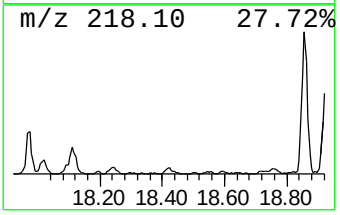



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

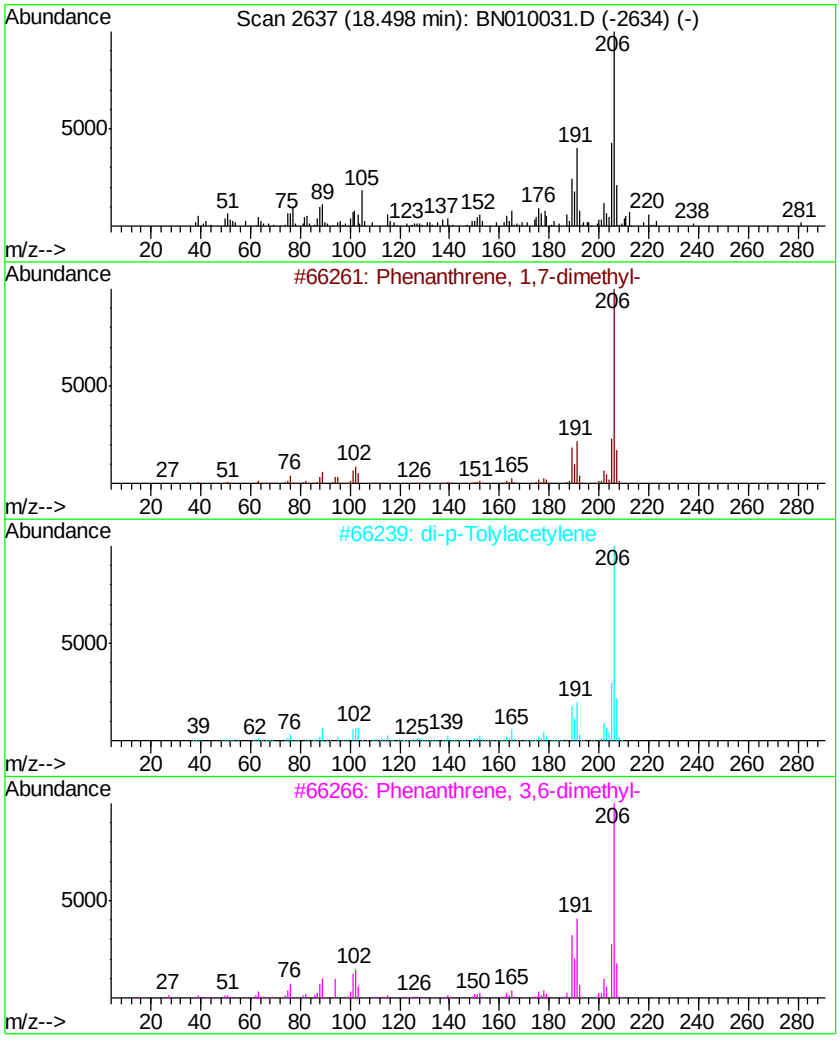
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

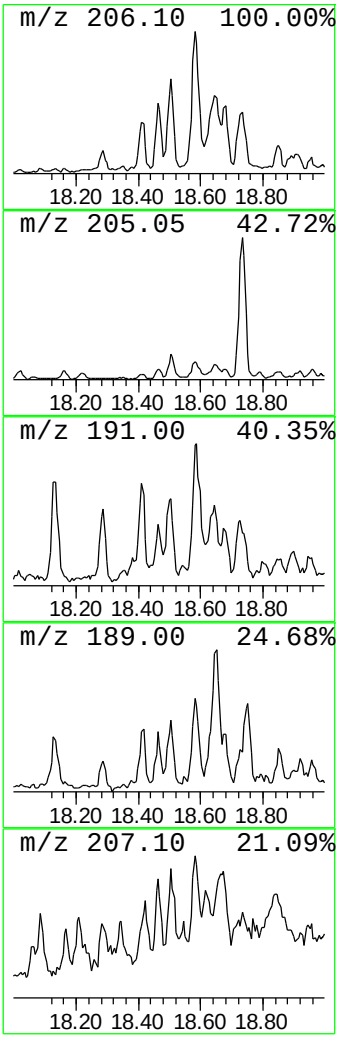
**********

Peak Number 14 Phenanthrene, 1,7-dimethyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.50 | 3.80 ng/ul | 205921 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 94 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |
| 3 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 89 |
| 4 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 86 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

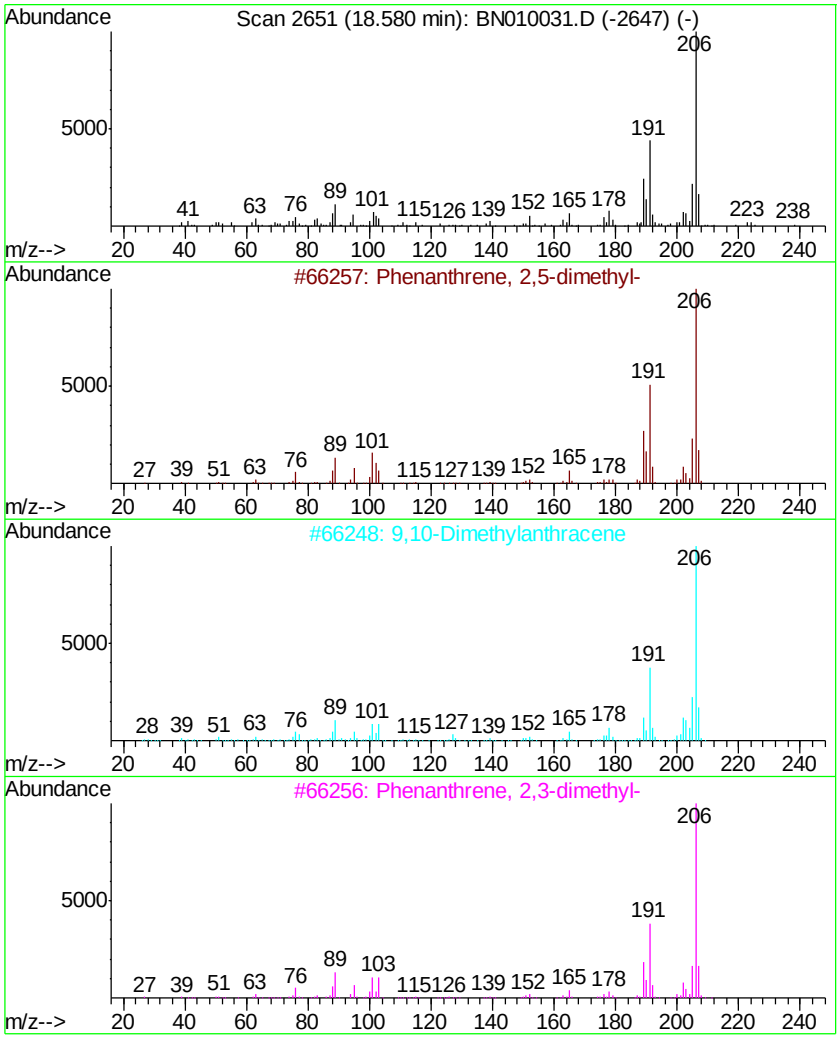
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

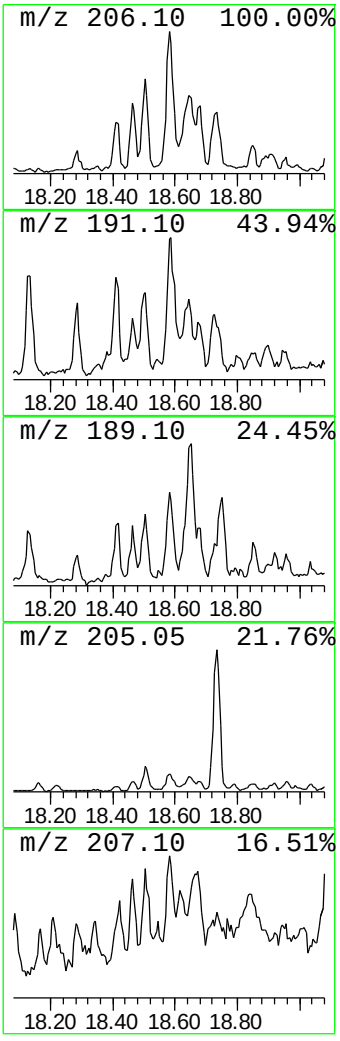
**********

Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.58 | 5.16 ng/ul | 279778 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 94 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 4 | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 91 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

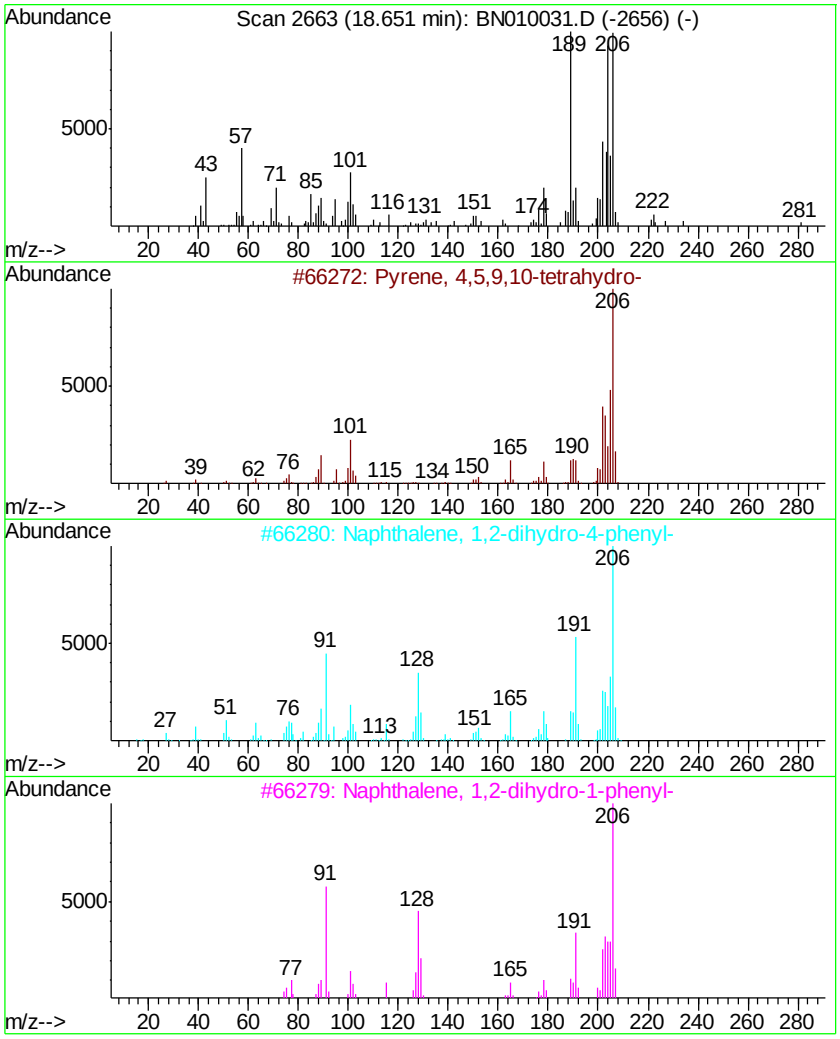
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

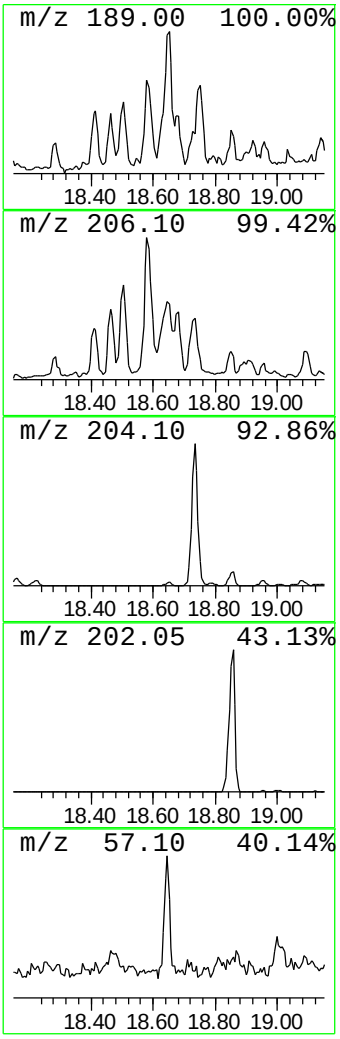
**********

Peak Number 16 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.65 | 4.69 ng/ul | 254579 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 50 |
| 2 | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 38 |
| 3 | Naphthalene, 1,2-dihydro-1-phenyl- | 206 | C16H14 | 016606-46-5 | 38 |
| 4 | 1-(4,5-Dimethyl-6H-thiopyran-2-y... | 204 | C9H10F2OS | 1000318-25-0 | 35 |
| 5 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 35 |



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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

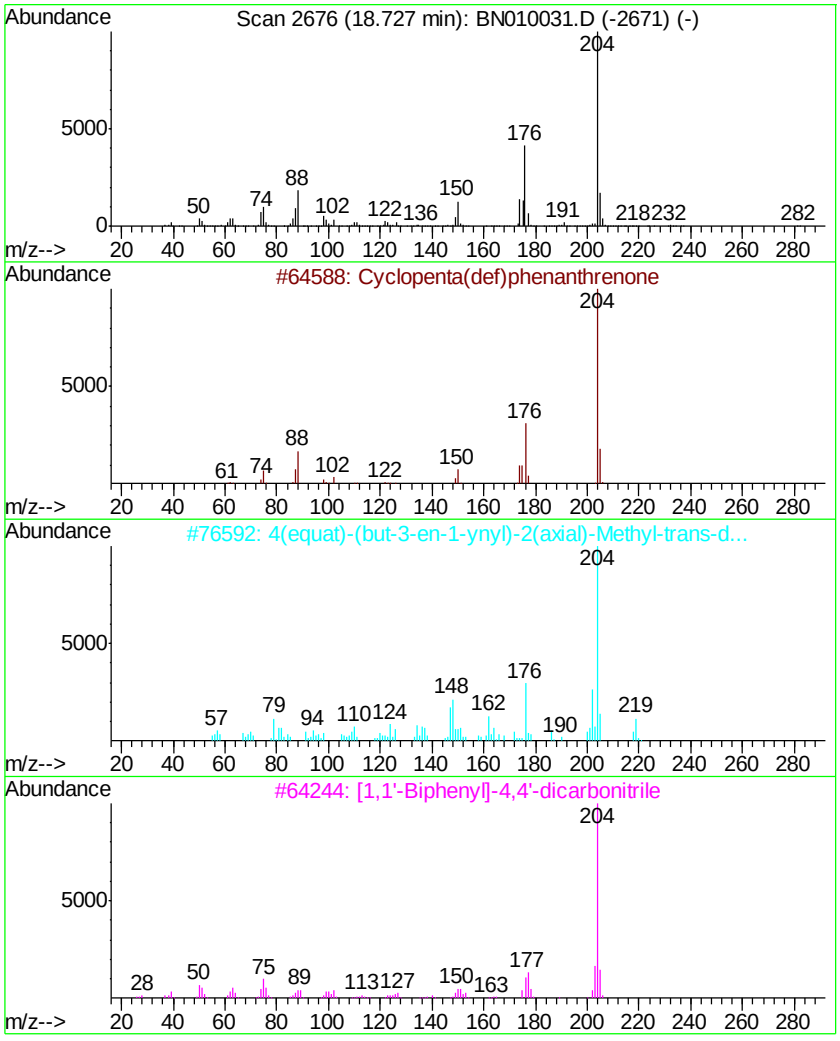
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

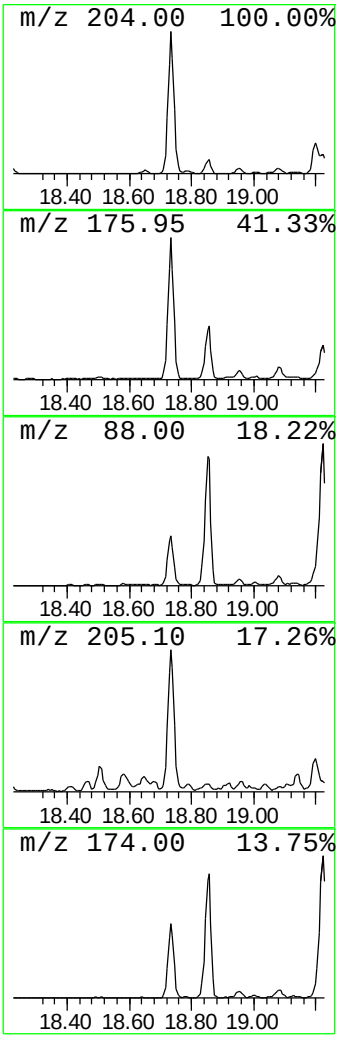
**********

Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.73 | 44.42 ng/ul | 2408360 | Phenanthrene-d10 | 16.77 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 94 |
| 2 | 4(equat)-(but-3-en-1-ynyl)-2(axi... | 219 | C14H21NO | 038423-22-2 | 59 |
| 3 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 50 |
| 4 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 50 |
| 5 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 45 |



# Library Search Compound Report

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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

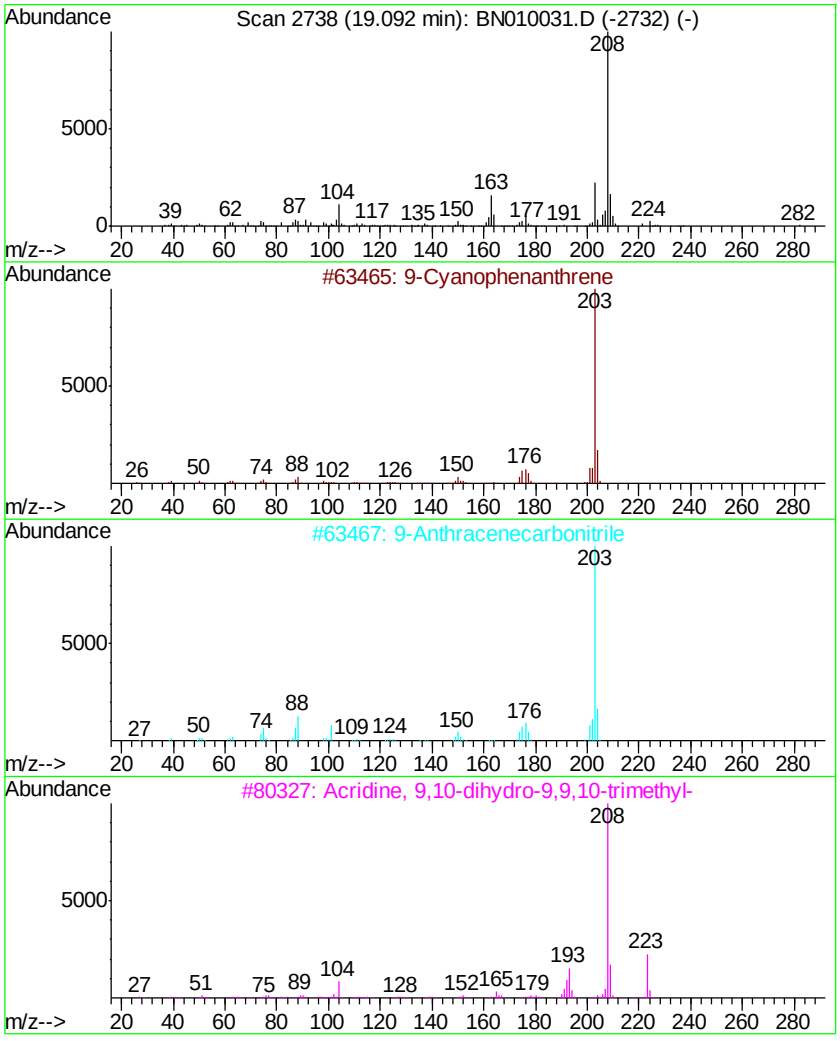
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

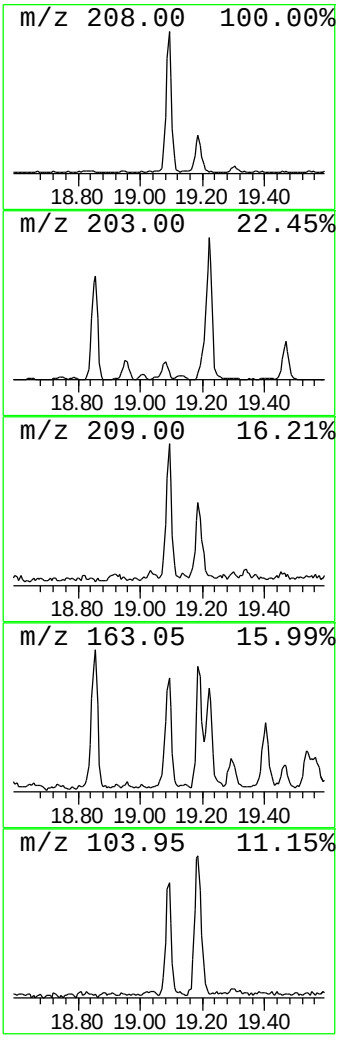
**********

Peak Number 18 9-Cyanophenanthrene Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.09 | 2.04 ng/ul | 693508 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Cyanophenanthrene | 203 | C15H9N | 002510-55-6 | 64 |
| 2 | 9-Anthracenecarbonitrile | 203 | C15H9N | 001210-12-4 | 47 |
| 3 | Acridine, 9,10-dihydro-9,9,10-tr... | 223 | C16H17N | 025308-77-4 | 47 |
| 4 | Phenanthrene, 9-methoxy- | 208 | C15H12O | 005085-74-5 | 47 |
| 5 | Indeno(1,2,3-ij)isoquinoline | 203 | C15H9N | 000206-56-4 | 43 |



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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

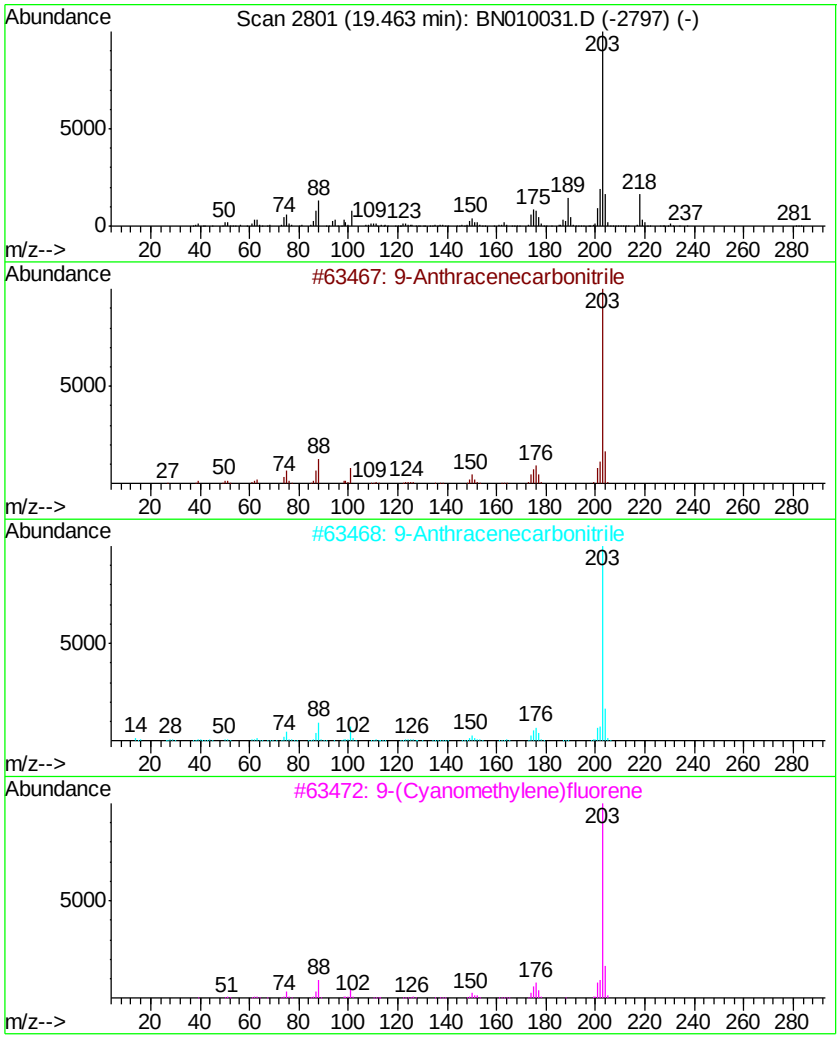
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

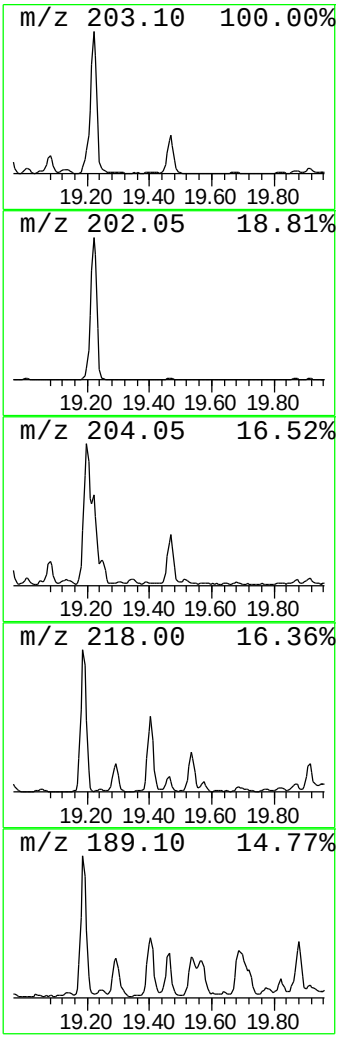
**********

Peak Number 19 9-Anthracenecarbonitrile Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.46 | 2.94 ng/ul | 1001030 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Anthracenecarbonitrile | 203 | C15H9N | 001210-12-4 | 96 |
| 2 | 9-Anthracenecarbonitrile | 203 | C15H9N | 001210-12-4 | 96 |
| 3 | 9-(Cyanomethylene)fluorene | 203 | C15H9N | 004425-74-5 | 95 |
| 4 | 2,9-Dimethyl-2,3,4,5,6,7-hexahyd... | 203 | C14H21N | 077581-11-4 | 95 |
| 5 | Acenaphtho(1,2-b)pyridine | 203 | C15H9N | 000206-49-5 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

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

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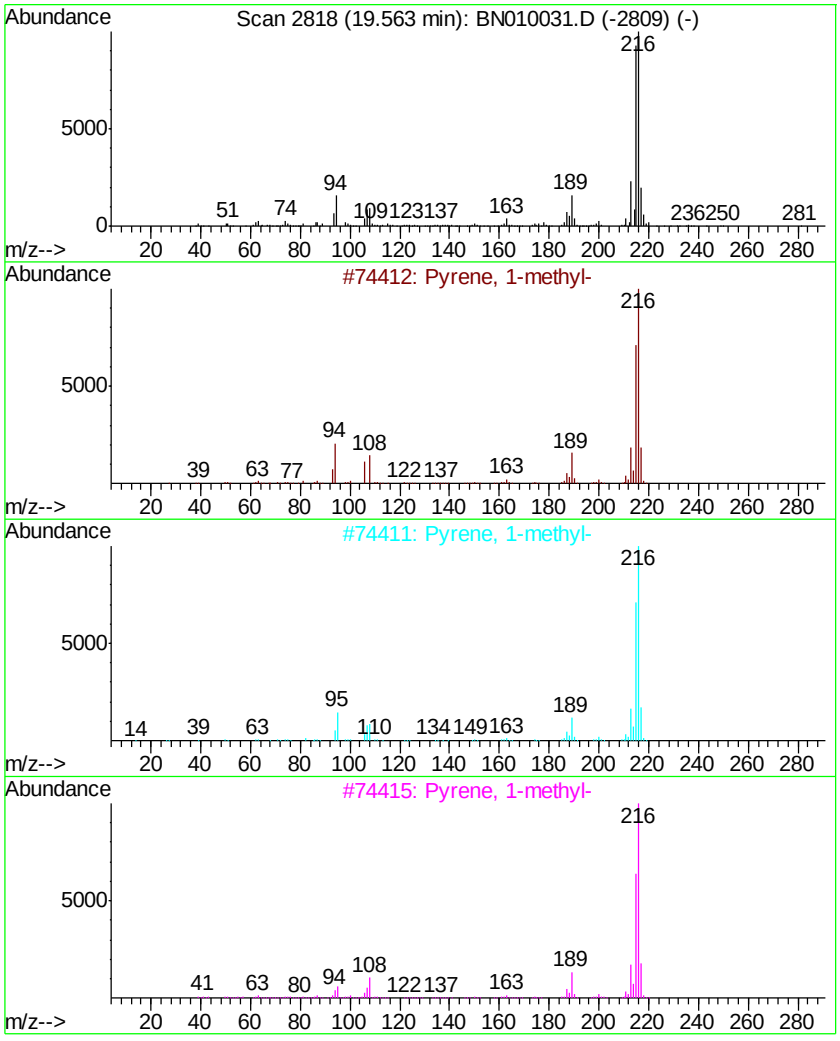
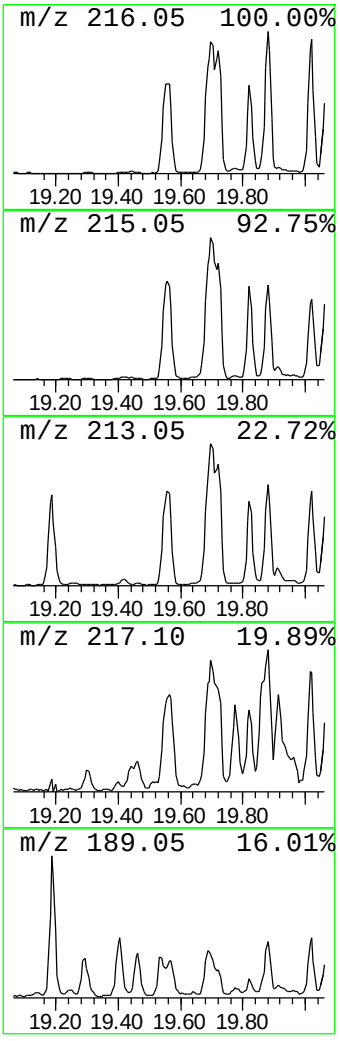
Peak Number 20 Fluoranthene, 2-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.56 | 4.52 ng/ul | 1539060 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 97 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 92 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

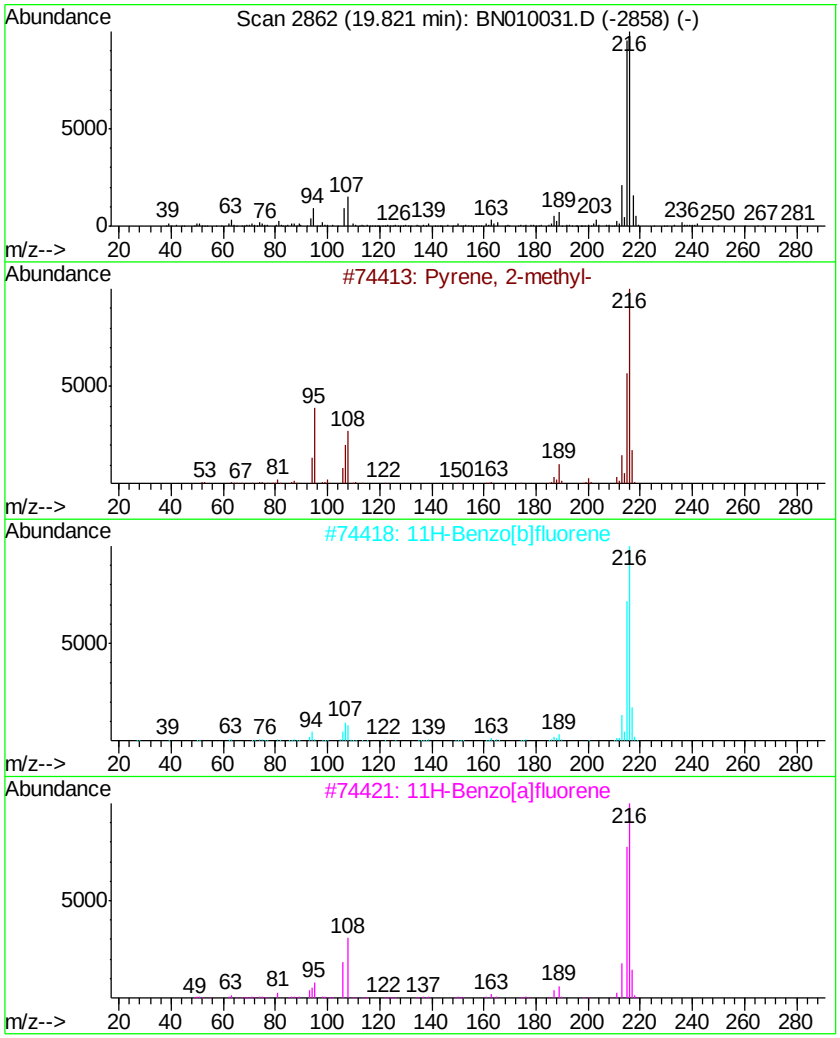
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

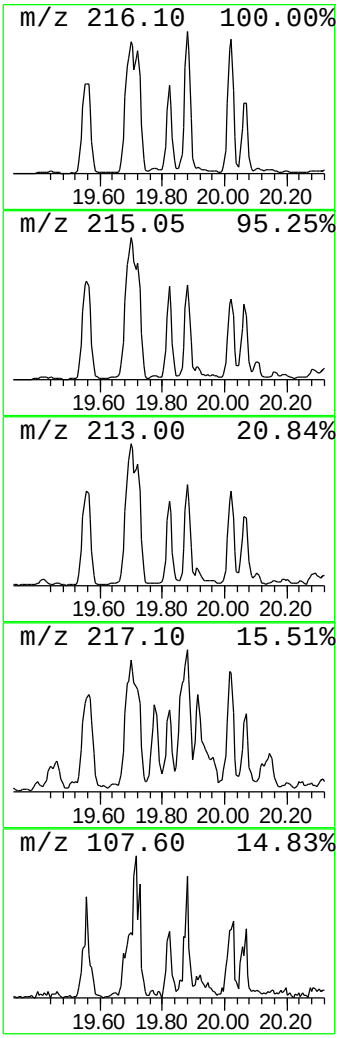
**********

Peak Number 22 11H-Benzo[b]fluorene Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.82 | 2.04 ng/ul | 694364 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 92 |
| 2 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 74 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 70 |



# Library Search Compound Report

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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

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

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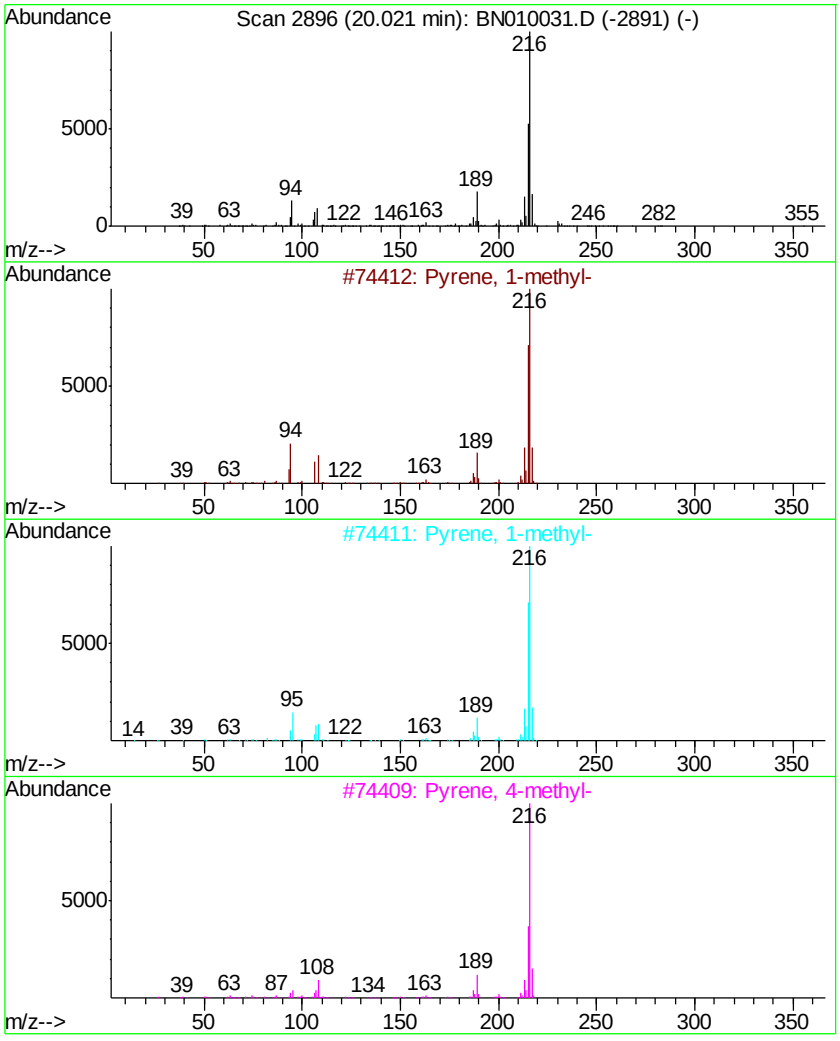
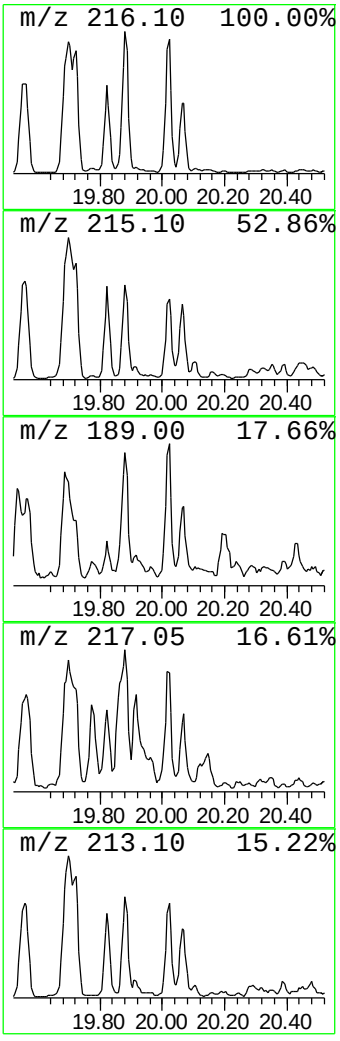
Peak Number 24 Pyrene, 4-methyl- Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.02 | 2.98 ng/ul | 1015040 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 96 |
| 3 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 95 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 94 |



# Library Search Compound Report

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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

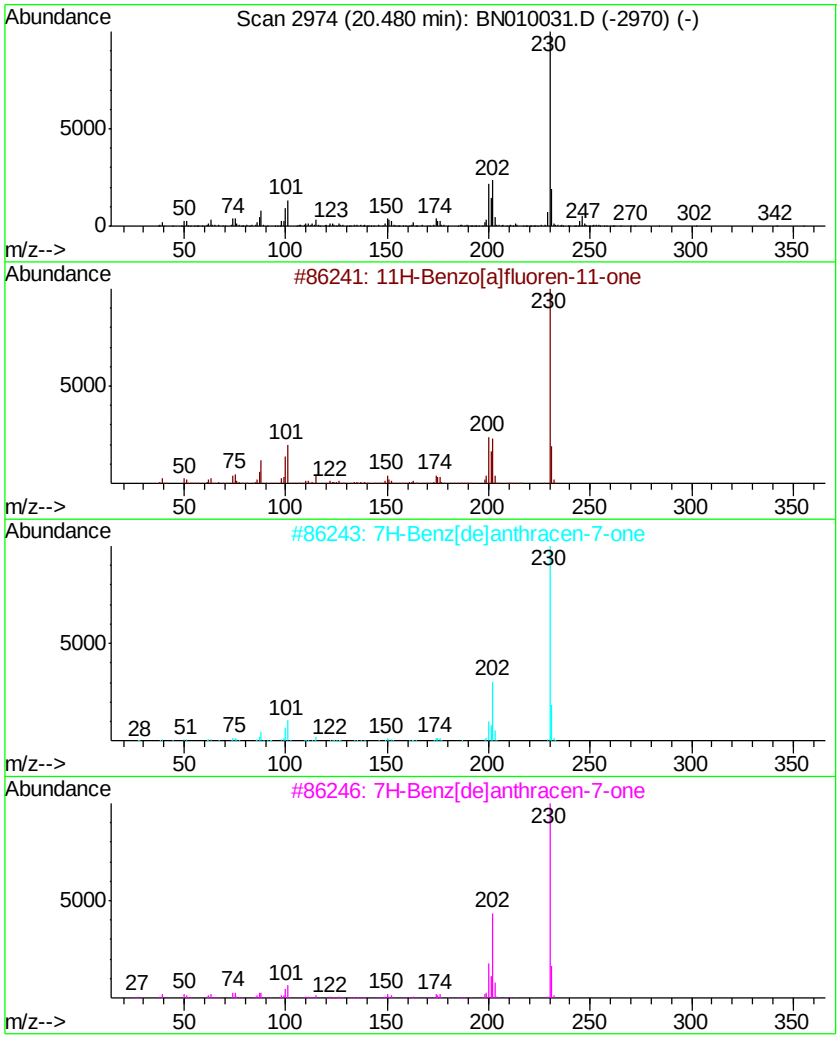
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

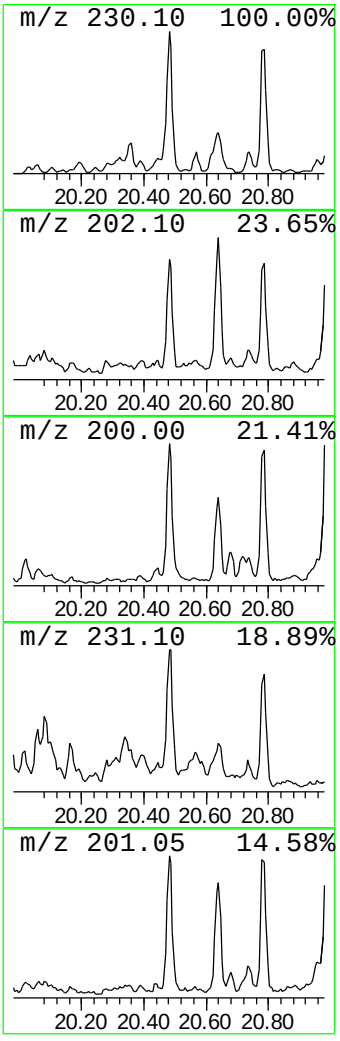
**********

Peak Number 26 11H-Benzo[a]fluoren-11-one Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.48 | 2.81 ng/ul | 957322 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 98 |
| 2 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 90 |
| 3 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 90 |
| 4 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 87 |
| 5 | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

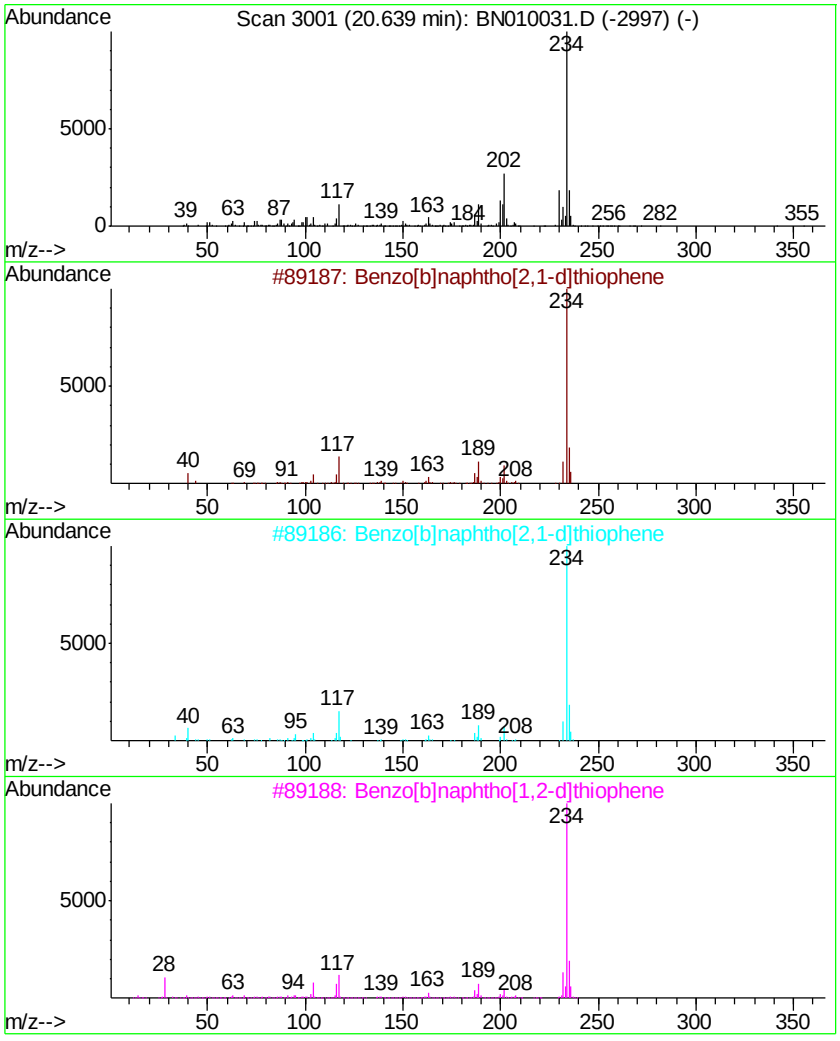
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

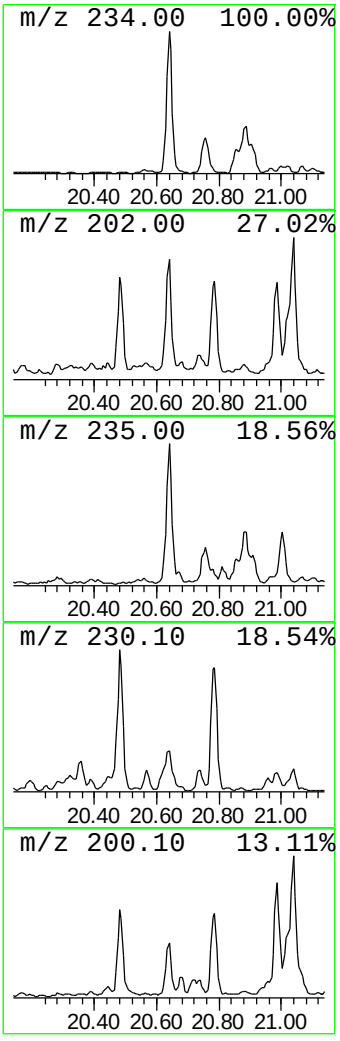
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 27 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.64 | 2.90 ng/ul | 987868 | Chrysene-d12 | 21.00 |

| 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[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 92 |
| 3 | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 70 |
| 4 | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 68 |
| 5 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 62 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

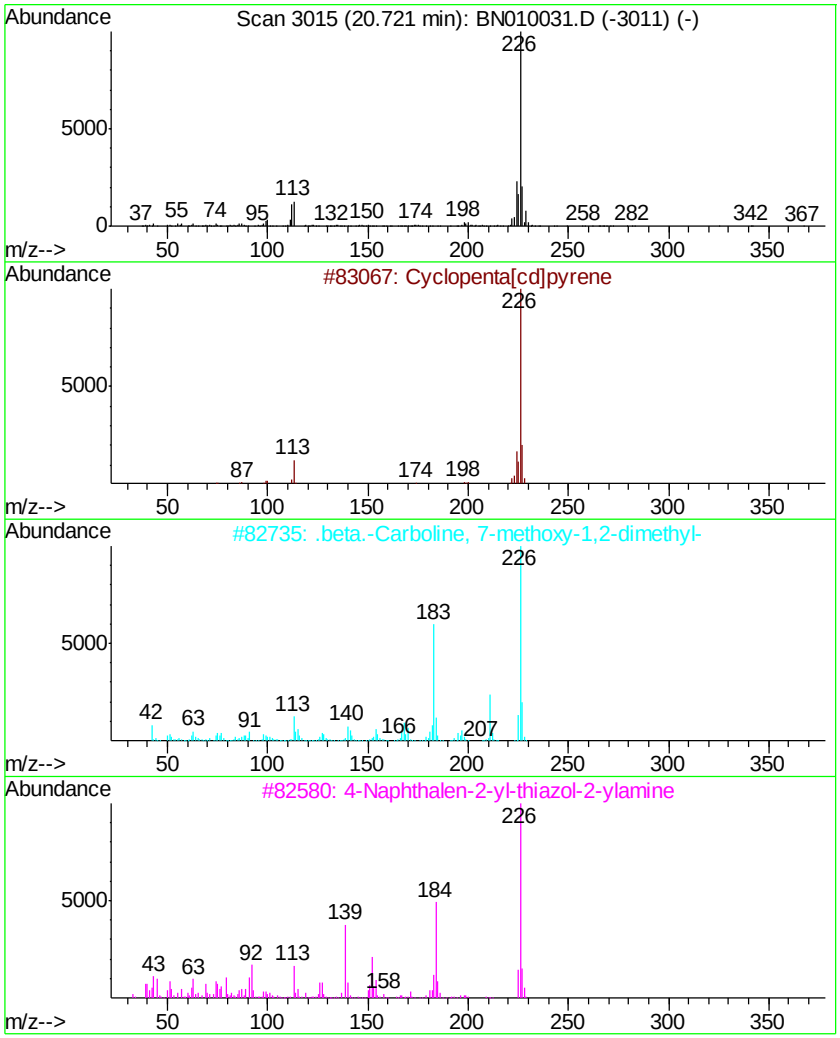
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

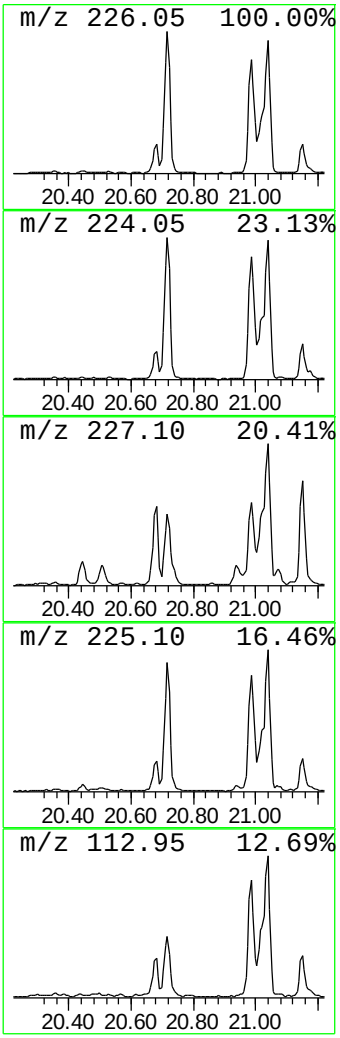
**********

Peak Number 29 Cyclopenta[cd]pyrene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.72 | 6.77 ng/ul | 2303640 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 93 |
| 2 | .beta.-Carboline, 7-methoxy-1,2-... | 226 | C14H14N2O | 006519-18-2 | 58 |
| 3 | 4-Naphthalen-2-yl-thiazol-2-ylamine | 226 | C13H10N2S | 1000300-53-4 | 42 |
| 4 | 1,3-Diamino-5,6-dihydro-7-methyl... | 226 | C13H14N4 | 037436-37-6 | 40 |
| 5 | 9H-Xanthen-9-one, 3-methoxy- | 226 | C14H10O3 | 003722-52-9 | 40 |



# Library Search Compound Report

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Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

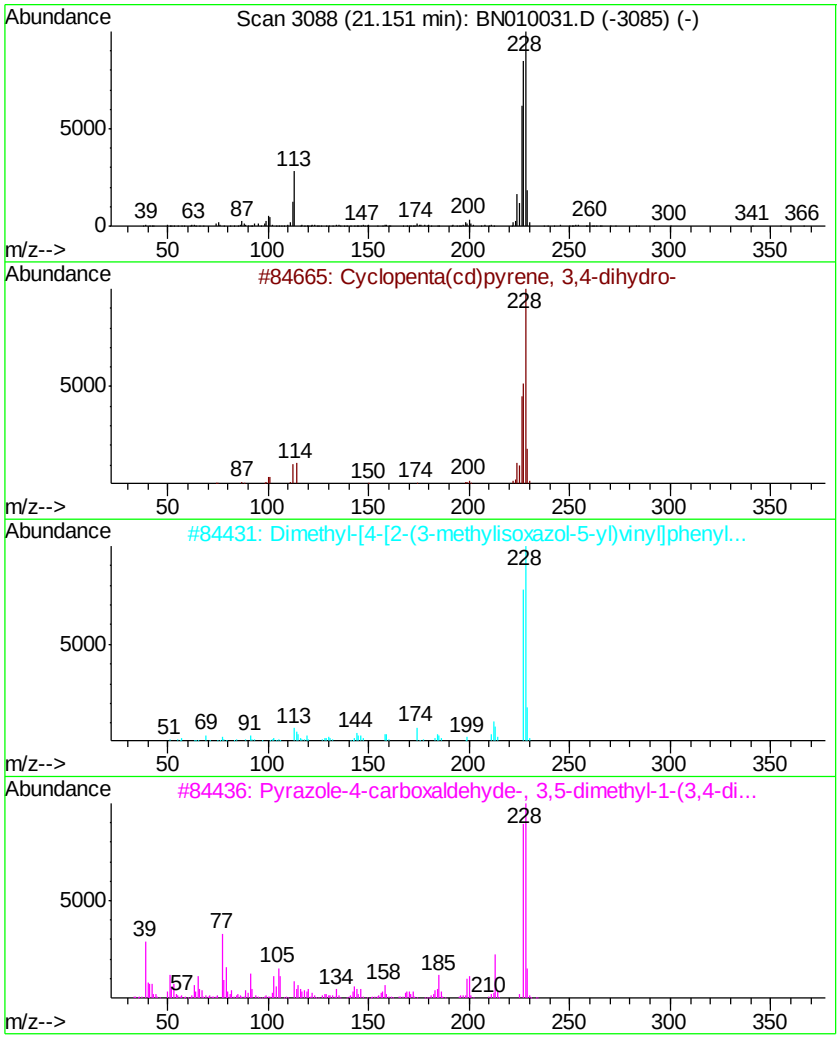
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

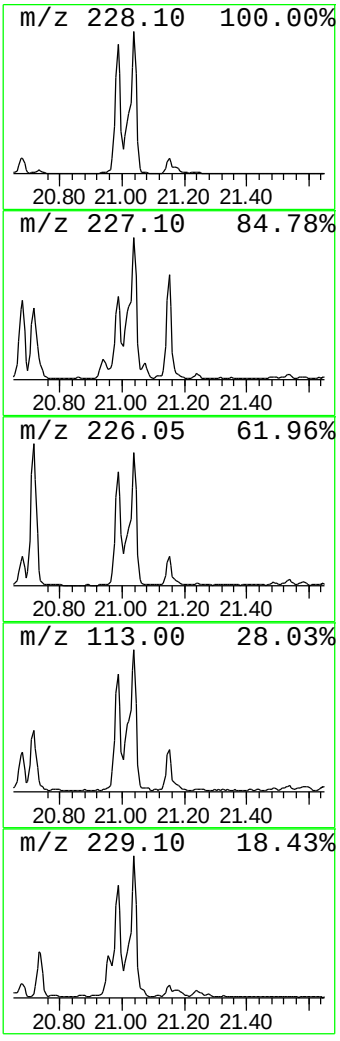
**********

Peak Number 30 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.15 | 2.01 ng/ul | 685082 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 95 |
| 2 | Dimethyl-[4-[2-(3-methylisoxazol... | 228 | C14H16N2O | 1000306-39-6 | 50 |
| 3 | Pyrazole-4-carboxaldehyde-, 3,5-... | 228 | C14H16N2O | 1000272-54-8 | 50 |
| 4 | 1(2H)-Phenanthrenone, 3,4,9,10-t... | 228 | C15H16O2 | 014427-61-3 | 50 |
| 5 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 49 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

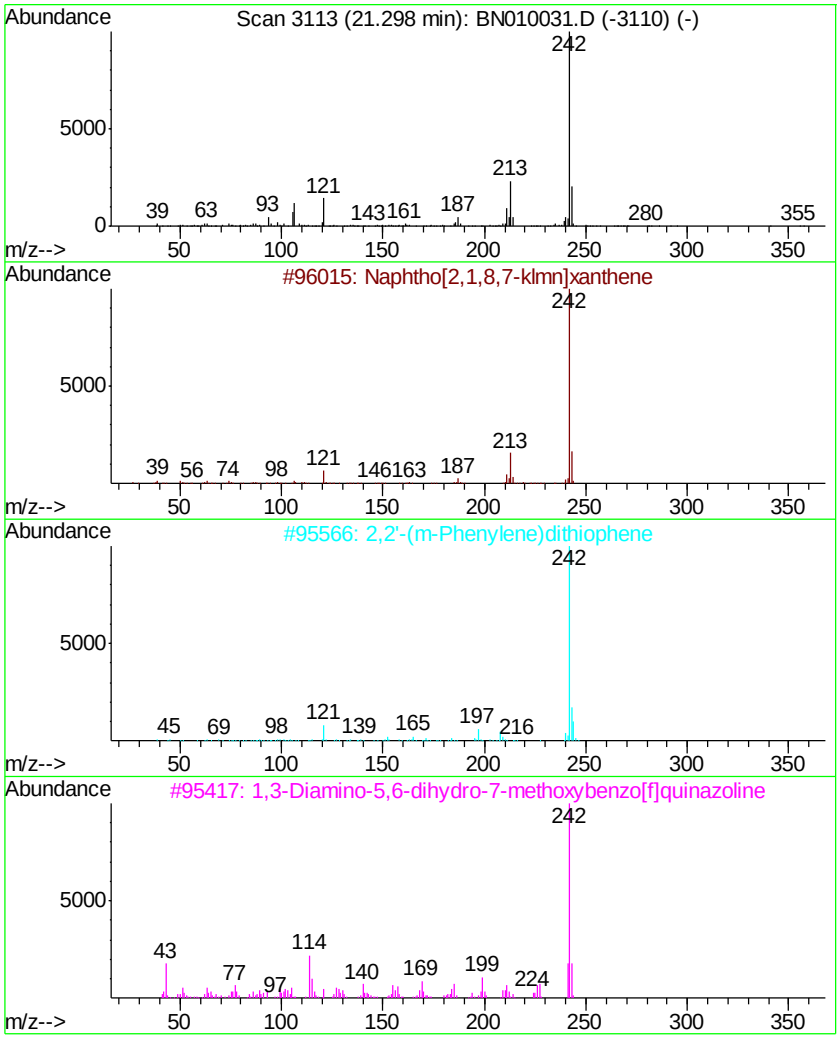
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

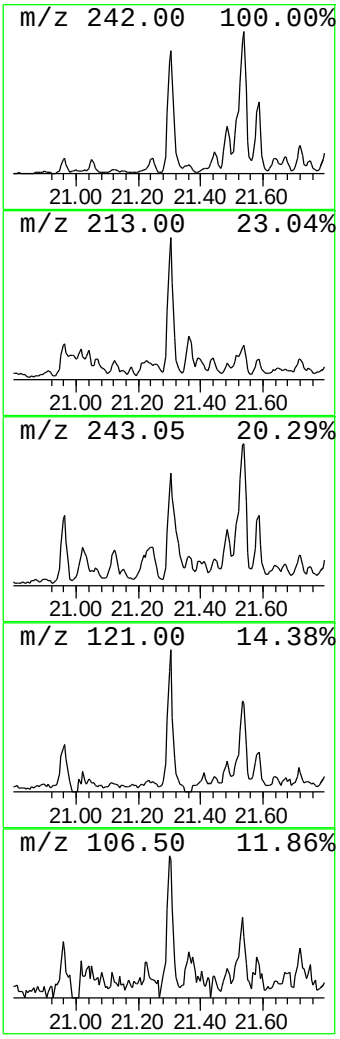
**********

Peak Number 31 Naphtho[2,1,8,7-klmn]xanthene Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.30 | 2.10 ng/ul | 715341 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[2,1,8,7-klmn]xanthene | 242 | C18H10O | 000191-37-7 | 81 |
| 2 | 2,2'-(m-Phenylene)dithiophene | 242 | C14H10S2 | 104500-00-7 | 53 |
| 3 | 1,3-Diamino-5,6-dihydro-7-methox... | 242 | C13H14N4O | 037436-49-0 | 42 |
| 4 | 4,4'-Dimethoxy-2,2'-dimethylbiph... | 242 | C16H18O2 | 046873-19-2 | 40 |
| 5 | p-Dicyclohexylbenzene | 242 | C18H26 | 001087-02-1 | 38 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

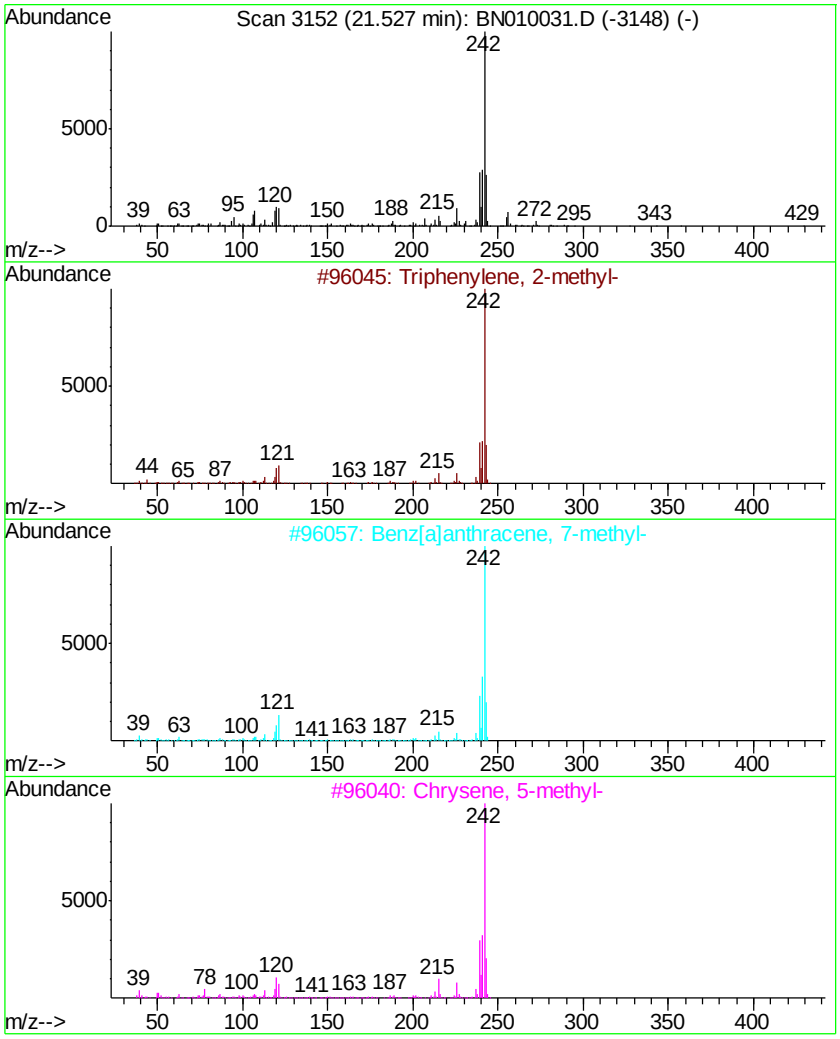
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

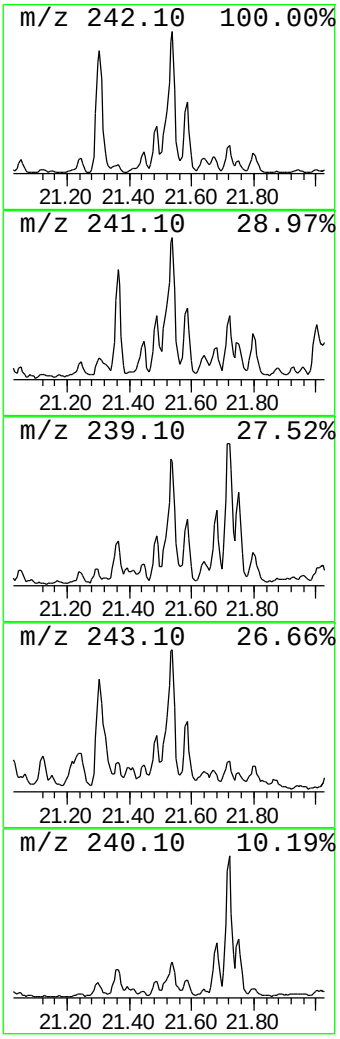
**********

Peak Number 32 Triphenylene, 2-methyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.53 | 3.11 ng/ul | 1059320 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 98 |
| 2 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 94 |
| 3 | Chrysene, 5-methyl- | 242 | C19H14 | 003697-24-3 | 94 |
| 4 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 93 |
| 5 | 2-Methylchrysene | 242 | C19H14 | 003351-32-4 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

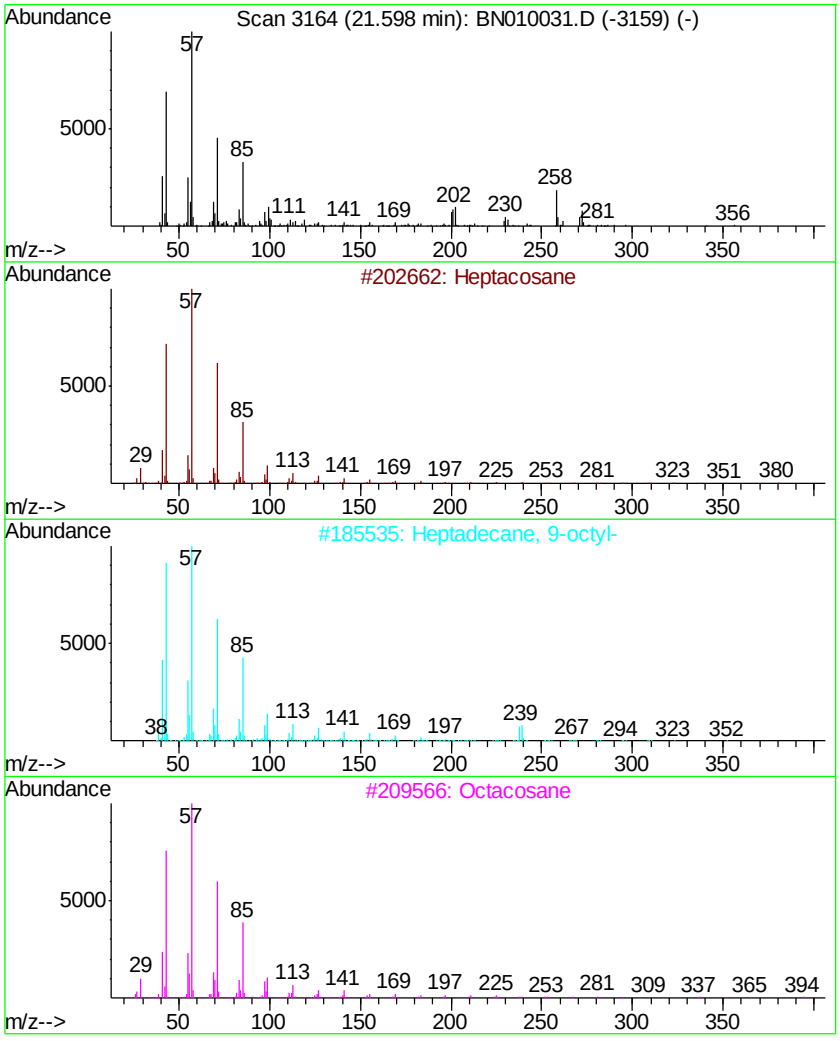
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

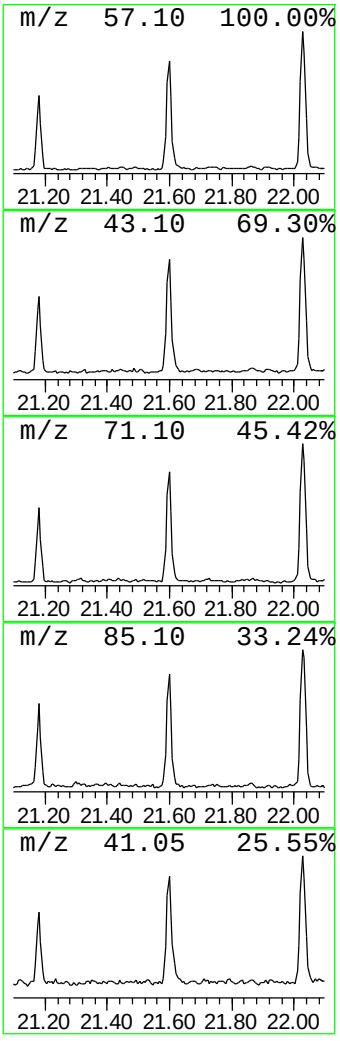
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.60 | 2.48 ng/ul | 842400 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 62 |
| 2 | Heptadecane, 9-octyl- | 352 | C25H52 | 007225-64-1 | 58 |
| 3 | Octacosane | 394 | C28H58 | 000630-02-4 | 58 |
| 4 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 53 |
| 5 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 53 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

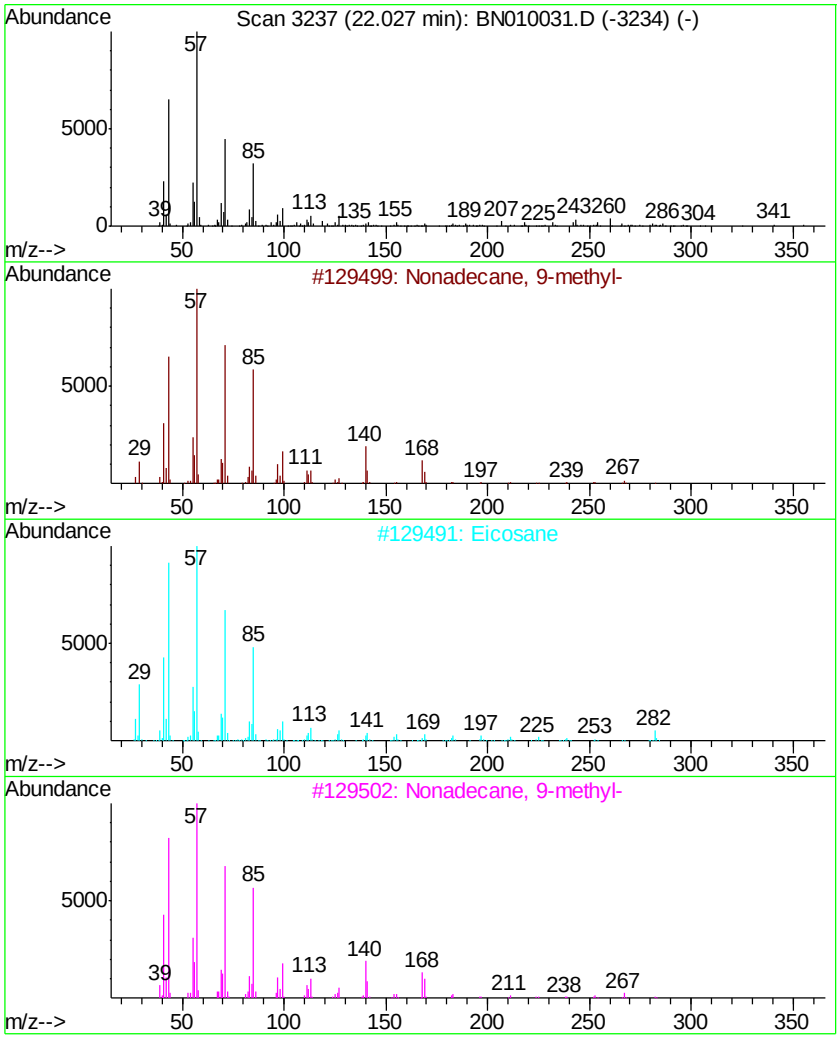
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

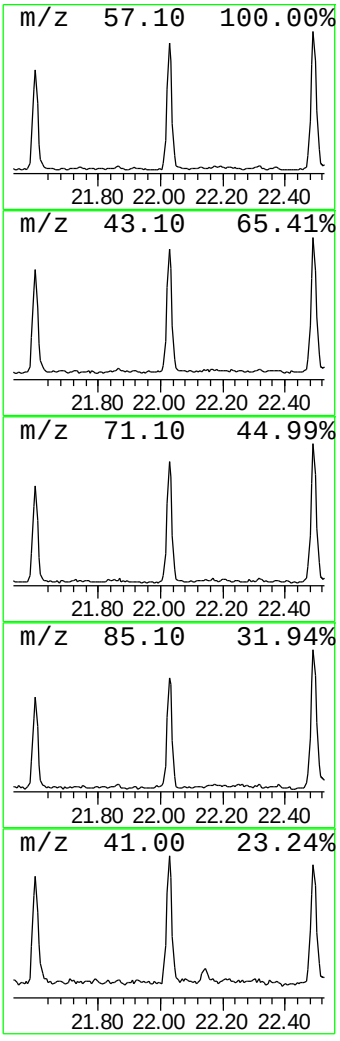
**********

Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.03 | 2.31 ng/ul | 786819 | Chrysene-d12 | 21.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 93 |
| 2 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 3 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 90 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 89 |
| 5 | Octadecane | 254 | C18H38 | 000593-45-3 | 89 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

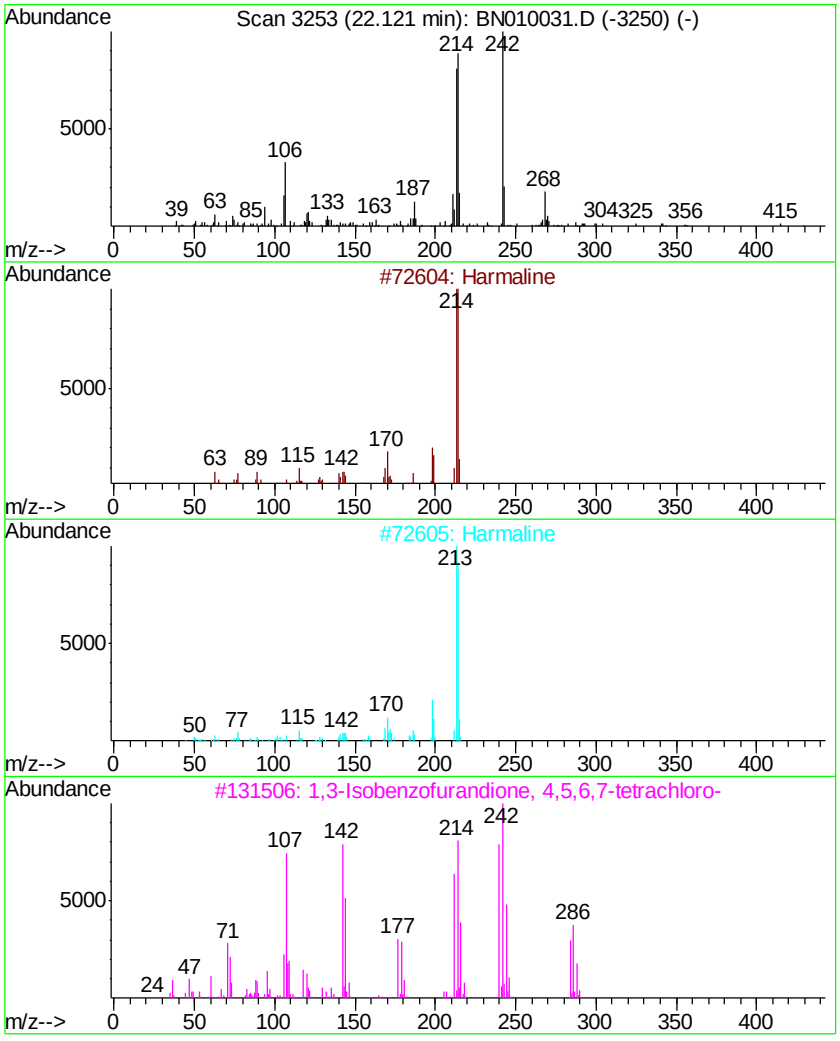
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

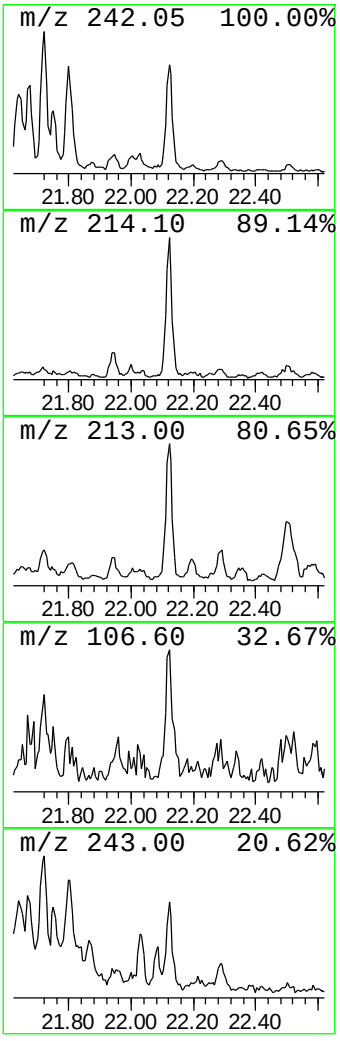
**********

Peak Number 35 unknown-02 Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.12 | 3.48 ng/ul | 181987 | Perylene-d12 | 23.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Harmaline | 214 | C13H14N2O | 000304-21-2 | 43 |
| 2 | Harmaline | 214 | C13H14N2O | 000304-21-2 | 32 |
| 3 | 1,3-Isobenzofurandione, 4,5,6,7-... | 284 | C8Cl4O3 | 000117-08-8 | 18 |
| 4 | .delta.9(11)-Methyltestosterone | 300 | C20H28O2 | 001039-17-4 | 16 |
| 5 | Decanedioic acid, diethyl ester | 258 | C14H26O4 | 000110-40-7 | 15 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

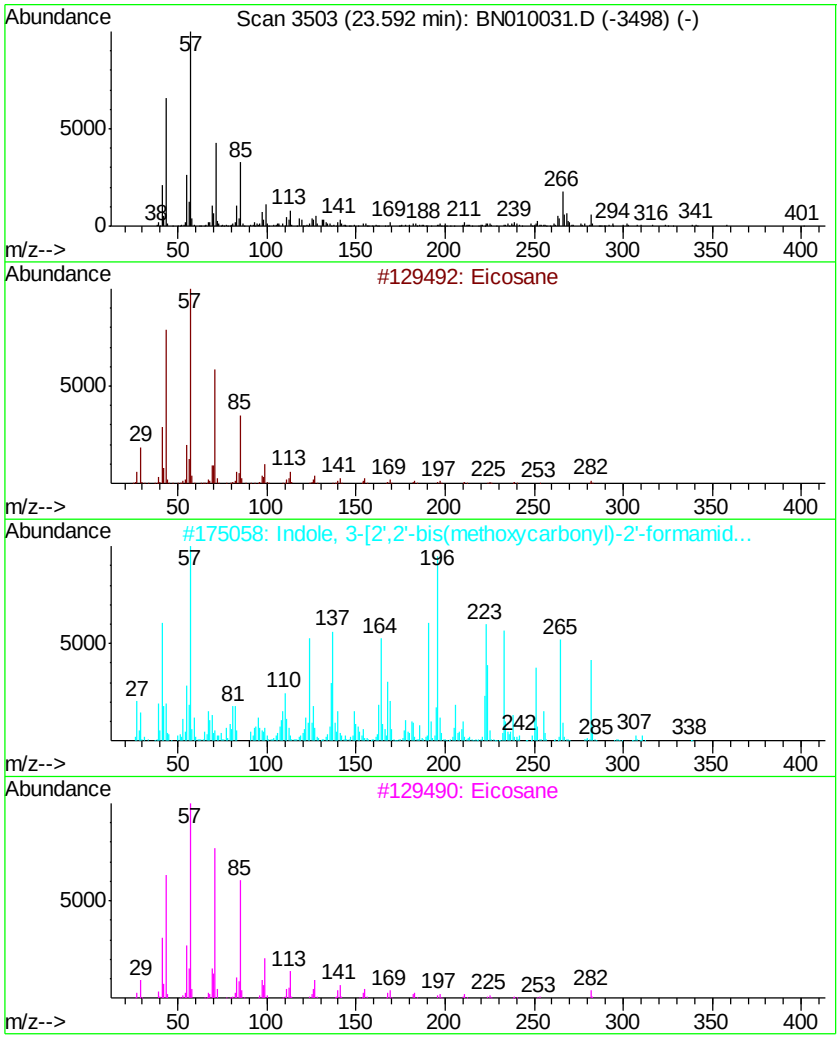
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

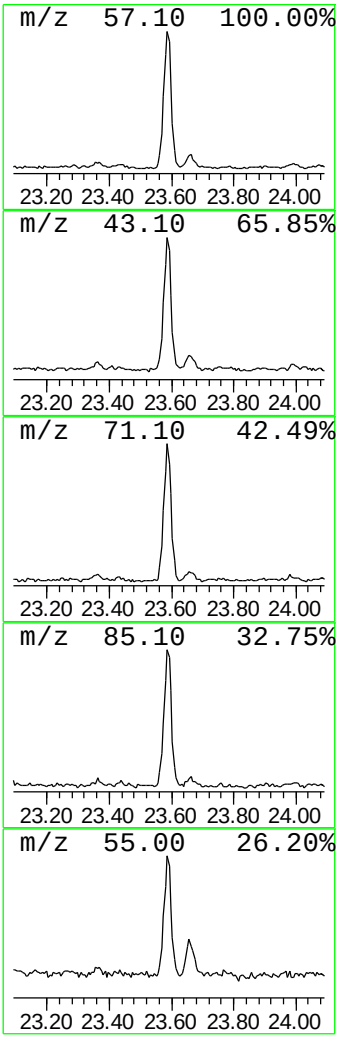
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 40 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.59 | 13.72 ng/ul | 717227 | Perylene-d12 | 23.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 96 |
| 2 | Indole, 3-[2',2'-bis(methoxycarb... | 338 | C17H26N2O5 | 1000195-88-7 | 90 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 89 |
| 4 | Nonadecane | 268 | C19H40 | 000629-92-5 | 81 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 76 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.M
Quant Title : SVOA CALIBRATION

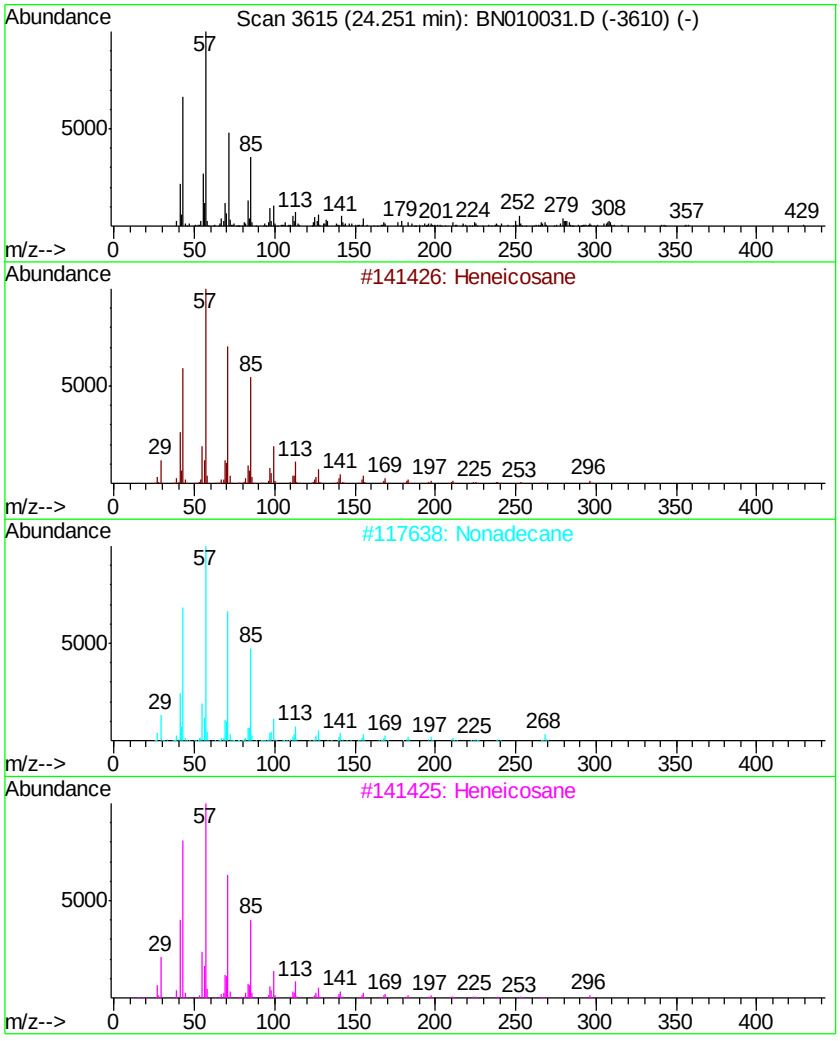
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

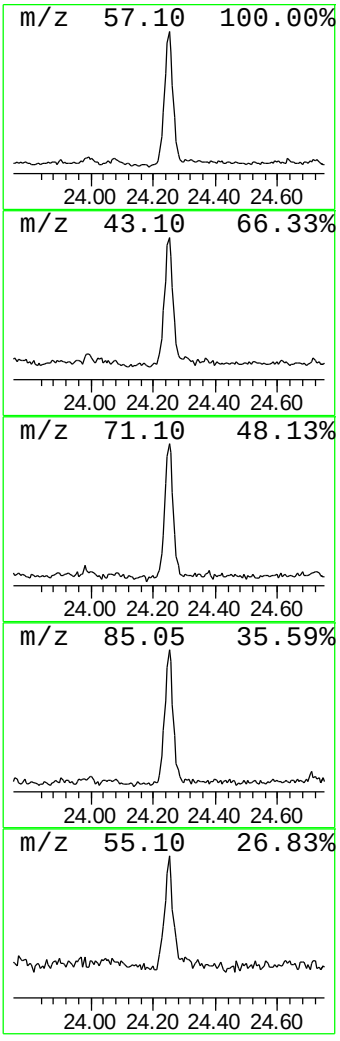
**********

Peak Number 41 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 24.25 | 7.48 ng/ul | 391180 | Perylene-d12 | 23.10 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 97 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 96 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 93 |
| 4 | Eicosane, 2-methyl- | 296 | C21H44 | 001560-84-5 | 90 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN022820\
Data File : BN010031.D
Acq On : 29 Feb 2020 19:00
Operator : CG/JU
Sample : L1615-08
Misc :
ALS Vial : 51 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** DBDN2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN021220MA.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-Propyne, 3-phenyl- | 7.90 | 11.4 | ng/ul | 291185 | 1 | 7.37 | 509573 | 20.0 |
| 1(2H)-Acenaphthyl... | 15.77 | 4.1 | ng/ul | 224155 | 4 | 16.77 | 1084480 | 20.0 |
| Phenol, 3-(2-phen... | 16.52 | 2.8 | ng/ul | 152783 | 4 | 16.77 | 1084480 | 20.0 |
| unknown-01 | 16.97 | 3.3 | ng/ul | 178216 | 4 | 16.77 | 1084480 | 20.0 |
| 1H-Indene, 1-(phe... | 17.30 | 4.1 | ng/ul | 222161 | 4 | 16.77 | 1084480 | 20.0 |
| 1,2-Acenaphthylen... | 17.49 | 2.4 | ng/ul | 131117 | 4 | 16.77 | 1084480 | 20.0 |
| Phenanthrene, 1-m... | 17.65 | 6.1 | ng/ul | 330555 | 4 | 16.77 | 1084480 | 20.0 |
| 5H-Dibenzo[a,d]cy... | 17.70 | 9.7 | ng/ul | 527223 | 4 | 16.77 | 1084480 | 20.0 |
| Phenanthrene, 2-m... | 17.78 | 7.3 | ng/ul | 398108 | 4 | 16.77 | 1084480 | 20.0 |
| 4H-Cyclopenta[def... | 17.85 | 16.7 | ng/ul | 907863 | 4 | 16.77 | 1084480 | 20.0 |
| Benzo[c]cinnoline | 18.22 | 4.4 | ng/ul | 240679 | 4 | 16.77 | 1084480 | 20.0 |
| Phenanthrene, 3,6... | 18.42 | 2.6 | ng/ul | 142827 | 4 | 16.77 | 1084480 | 20.0 |
| Phenanthrene, 1,7... | 18.50 | 3.8 | ng/ul | 205921 | 4 | 16.77 | 1084480 | 20.0 |
| Phenanthrene, 2,5... | 18.58 | 5.2 | ng/ul | 279778 | 4 | 16.77 | 1084480 | 20.0 |
| Pyrene, 4,5,9,10-... | 18.65 | 4.7 | ng/ul | 254579 | 4 | 16.77 | 1084480 | 20.0 |
| Cyclopenta(def)ph... | 18.73 | 44.4 | ng/ul | 2408360 | 4 | 16.77 | 1084480 | 20.0 |
| 9-Cyanophenanthrene | 19.09 | 2.0 | ng/ul | 693508 | 5 | 21.00 | 6806930 | 20.0 |
| 9-Anthracenecarbo... | 19.46 | 2.9 | ng/ul | 1001030 | 5 | 21.00 | 6806930 | 20.0 |
| Fluoranthene, 2-m... | 19.56 | 4.5 | ng/ul | 1539060 | 5 | 21.00 | 6806930 | 20.0 |
| 11H-Benzo[b]fluorene | 19.82 | 2.0 | ng/ul | 694364 | 5 | 21.00 | 6806930 | 20.0 |
| Pyrene, 4-methyl- | 20.02 | 3.0 | ng/ul | 1015040 | 5 | 21.00 | 6806930 | 20.0 |
| 11H-Benzo[a]fluor... | 20.48 | 2.8 | ng/ul | 957322 | 5 | 21.00 | 6806930 | 20.0 |
| Benzo[b]naphtho[2... | 20.64 | 2.9 | ng/ul | 987868 | 5 | 21.00 | 6806930 | 20.0 |
| Cyclopenta[cd]pyrene | 20.72 | 6.8 | ng/ul | 2303640 | 5 | 21.00 | 6806930 | 20.0 |
| Cyclopenta(cd)pyr... | 21.15 | 2.0 | ng/ul | 685082 | 5 | 21.00 | 6806930 | 20.0 |
| Naphtho[2,1,8,7-k... | 21.30 | 2.1 | ng/ul | 715341 | 5 | 21.00 | 6806930 | 20.0 |
| Triphenylene, 2-m... | 21.53 | 3.1 | ng/ul | 1059320 | 5 | 21.00 | 6806930 | 20.0 |
| (DEL) Alkane: Str... | 21.60 | 2.5 | ng/ul | 842400 | 5 | 21.00 | 6806930 | 20.0 |
| (DEL) Alkane: Str... | 22.03 | 2.3 | ng/ul | 786819 | 5 | 21.00 | 6806930 | 20.0 |
| unknown-02 | 22.12 | 3.5 | ng/ul | 181987 | 6 | 23.10 | 1045850 | 20.0 |
| (DEL) Alkane: Str... | 23.59 | 13.7 | ng/ul | 717227 | 6 | 23.10 | 1045850 | 20.0 |
| (DEL) Alkane: Str... | 24.25 | 7.5 | ng/ul | 391180 | 6 | 23.10 | 1045850 | 20.0 |