LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.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 | 6.169 | 551 | 558 | 565 | rBV | 140513 | 199155 | 1.16% | 0.164% |
| 2 | 7.457 | 771 | 777 | 783 | rBV | 364959 | 562546 | 3.27% | 0.464% |
| 3 | 7.828 | 833 | 840 | 846 | rVB | 239485 | 371625 | 2.16% | 0.307% |
| 4 | 7.987 | 857 | 867 | 874 | rBV | 377936 | 585087 | 3.40% | 0.483% |
| 5 | 9.634 | 1140 | 1147 | 1157 | rBV4 | 96977 | 257702 | 1.50% | 0.213% |
| 6 | 10.228 | 1239 | 1248 | 1251 | rBV | 485714 | 915319 | 5.32% | 0.756% |
| 7 | 10.286 | 1251 | 1258 | 1265 | rVV | 10438387 | 17199207 | 100.00% | 14.200% |
| 8 | 10.392 | 1265 | 1276 | 1288 | rVV | 389329 | 721006 | 4.19% | 0.595% |
| 9 | 11.898 | 1521 | 1532 | 1539 | rBV | 3332007 | 5213239 | 30.31% | 4.304% |
| 10 | 12.122 | 1557 | 1570 | 1581 | rVB | 1504591 | 2386759 | 13.88% | 1.971% |
| 11 | 12.933 | 1702 | 1708 | 1716 | rVB | 768725 | 1092849 | 6.35% | 0.902% |
| 12 | 13.127 | 1736 | 1741 | 1752 | rVB | 248624 | 449508 | 2.61% | 0.371% |
| 13 | 13.263 | 1754 | 1764 | 1766 | rBV | 405473 | 642699 | 3.74% | 0.531% |
| 14 | 13.427 | 1782 | 1792 | 1797 | rBV | 580263 | 1024769 | 5.96% | 0.846% |
| 15 | 13.480 | 1797 | 1801 | 1806 | rVB | 378943 | 509424 | 2.96% | 0.421% |
| 16 | 13.663 | 1826 | 1832 | 1836 | rBV | 247635 | 376760 | 2.19% | 0.311% |
| 17 | 13.827 | 1856 | 1860 | 1868 | rVB2 | 272587 | 411463 | 2.39% | 0.340% |
| 18 | 14.110 | 1899 | 1908 | 1914 | rBV4 | 900896 | 1705980 | 9.92% | 1.408% |
| 19 | 14.180 | 1914 | 1920 | 1927 | rVV | 3098500 | 4455926 | 25.91% | 3.679% |
| 20 | 14.245 | 1927 | 1931 | 1939 | rVB | 145277 | 209412 | 1.22% | 0.173% |
| 21 | 14.327 | 1939 | 1945 | 1953 | rBV3 | 92493 | 209388 | 1.22% | 0.173% |
| 22 | 14.427 | 1953 | 1962 | 1966 | rVB3 | 143450 | 248730 | 1.45% | 0.205% |
| 23 | 14.516 | 1966 | 1977 | 1985 | rVB | 2558804 | 3645036 | 21.19% | 3.009% |
| 24 | 14.598 | 1985 | 1991 | 1995 | rBV | 129697 | 181023 | 1.05% | 0.149% |
| 25 | 14.739 | 2006 | 2015 | 2020 | rBV3 | 102237 | 191516 | 1.11% | 0.158% |
| 26 | 15.110 | 2073 | 2078 | 2082 | rVB3 | 135674 | 214486 | 1.25% | 0.177% |
| 27 | 15.174 | 2082 | 2089 | 2093 | rBV | 3279145 | 4741055 | 27.57% | 3.914% |
| 28 | 15.263 | 2098 | 2104 | 2106 | rBV3 | 123381 | 180320 | 1.05% | 0.149% |
| 29 | 15.327 | 2112 | 2115 | 2120 | rVB | 363963 | 496443 | 2.89% | 0.410% |
| 30 | 15.416 | 2127 | 2130 | 2134 | rVB | 168748 | 217431 | 1.26% | 0.180% |
| 31 | 15.463 | 2134 | 2138 | 2148 | rVB | 479659 | 722962 | 4.20% | 0.597% |
| 32 | 15.610 | 2154 | 2163 | 2172 | rVB | 542352 | 1106898 | 6.44% | 0.914% |
| 33 | 15.839 | 2194 | 2202 | 2208 | rBV3 | 100966 | 187936 | 1.09% | 0.155% |
| 34 | 15.963 | 2217 | 2223 | 2231 | rBV3 | 167356 | 278684 | 1.62% | 0.230% |

LSC Area Percent Report

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Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 16.174 | 2248 | 2259 | 2264 | rBV2 | 378175 | 768237 | 4.47% | 0.634% |
| 36 | 16.221 | 2264 | 2267 | 2273 | rVB2 | 128069 | 177165 | 1.03% | 0.146% |
| 37 | 16.321 | 2279 | 2284 | 2290 | rVB3 | 161068 | 267125 | 1.55% | 0.221% |
| 38 | 16.410 | 2295 | 2299 | 2302 | rVV | 119219 | 174199 | 1.01% | 0.144% |
| 39 | 16.445 | 2302 | 2305 | 2309 | rVB3 | 139652 | 185445 | 1.08% | 0.153% |
| 40 | 16.604 | 2326 | 2332 | 2338 | rBV | 204082 | 375553 | 2.18% | 0.310% |
| 41 | 16.686 | 2338 | 2346 | 2357 | rVB | 725514 | 1181552 | 6.87% | 0.976% |
| 42 | 16.868 | 2367 | 2377 | 2380 | rBV | 1115810 | 1769783 | 10.29% | 1.461% |
| 43 | 16.921 | 2380 | 2386 | 2391 | rVV | 12491305 | 16821606 | 97.80% | 13.888% |
| 44 | 16.968 | 2391 | 2394 | 2395 | rVV | 225837 | 256842 | 1.49% | 0.212% |
| 45 | 16.998 | 2395 | 2399 | 2405 | rVB | 1511034 | 2086161 | 12.13% | 1.722% |
| 46 | 17.062 | 2405 | 2410 | 2416 | rBV4 | 106481 | 185363 | 1.08% | 0.153% |
| 47 | 17.274 | 2441 | 2446 | 2450 | rVB | 748882 | 955703 | 5.56% | 0.789% |
| 48 | 17.445 | 2470 | 2475 | 2484 | rVB3 | 91264 | 224489 | 1.31% | 0.185% |
| 49 | 17.745 | 2521 | 2526 | 2530 | rBV | 699819 | 945175 | 5.50% | 0.780% |
| 50 | 17.792 | 2530 | 2534 | 2541 | rVB | 1080878 | 1451276 | 8.44% | 1.198% |
| 51 | 17.868 | 2541 | 2547 | 2553 | rBV | 408027 | 643594 | 3.74% | 0.531% |
| 52 | 17.939 | 2553 | 2559 | 2563 | rBV2 | 1357599 | 2189900 | 12.73% | 1.808% |
| 53 | 17.974 | 2563 | 2565 | 2569 | rVB | 354887 | 383429 | 2.23% | 0.317% |
| 54 | 18.251 | 2608 | 2612 | 2617 | rVB | 539470 | 688971 | 4.01% | 0.569% |
| 55 | 18.504 | 2647 | 2655 | 2658 | rBV2 | 123156 | 189670 | 1.10% | 0.157% |
| 56 | 18.551 | 2658 | 2663 | 2666 | rVV2 | 131075 | 175625 | 1.02% | 0.145% |
| 57 | 18.674 | 2678 | 2684 | 2689 | rBV2 | 241363 | 474261 | 2.76% | 0.392% |
| 58 | 18.739 | 2689 | 2695 | 2698 | rBV2 | 144666 | 224589 | 1.31% | 0.185% |
| 59 | 18.945 | 2723 | 2730 | 2737 | rBV | 7431070 | 9790275 | 56.92% | 8.083% |
| 60 | 19.186 | 2765 | 2771 | 2776 | rBV | 192425 | 271594 | 1.58% | 0.224% |
| 61 | 19.309 | 2782 | 2792 | 2796 | rBV2 | 4446526 | 7846541 | 45.62% | 6.478% |
| 62 | 19.380 | 2800 | 2804 | 2812 | rVB3 | 255547 | 446359 | 2.60% | 0.369% |
| 63 | 19.486 | 2812 | 2822 | 2828 | rBV | 316423 | 501007 | 2.91% | 0.414% |
| 64 | 19.545 | 2828 | 2832 | 2838 | rVB | 102977 | 173855 | 1.01% | 0.144% |
| 65 | 19.639 | 2838 | 2848 | 2853 | rBV3 | 269603 | 724376 | 4.21% | 0.598% |
| 66 | 19.686 | 2853 | 2856 | 2860 | rVB | 149362 | 188612 | 1.10% | 0.156% |
| 67 | 19.768 | 2865 | 2870 | 2872 | rVV4 | 207999 | 326663 | 1.90% | 0.270% |
| 68 | 19.809 | 2872 | 2877 | 2882 | rVB | 965327 | 1317711 | 7.66% | 1.088% |
| 69 | 19.909 | 2889 | 2894 | 2898 | rBV | 1130300 | 1375137 | 8.00% | 1.135% |
| 70 | 19.962 | 2898 | 2903 | 2908 | rVV2 | 347489 | 621614 | 3.61% | 0.513% |
| 71 | 20.151 | 2931 | 2935 | 2940 | rVV2 | 127039 | 198272 | 1.15% | 0.164% |

LSC Area Percent Report

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Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.339 | 2963 | 2967 | 2970 | rBV | 157763 | 189117 | 1.10% | 0.156% |
| 73 | 20.521 | 2994 | 2998 | 3003 | rBV2 | 139462 | 254426 | 1.48% | 0.210% |
| 74 | 20.727 | 3029 | 3033 | 3036 | rBV | 274774 | 349220 | 2.03% | 0.288% |
| 75 | 20.762 | 3036 | 3039 | 3043 | rVV | 249806 | 324698 | 1.89% | 0.268% |
| 76 | 20.809 | 3043 | 3047 | 3051 | rVB2 | 148414 | 285115 | 1.66% | 0.235% |
| 77 | 20.968 | 3067 | 3074 | 3081 | rBV | 96652 | 195490 | 1.14% | 0.161% |
| 78 | 21.074 | 3081 | 3092 | 3097 | rVV3 | 2332845 | 4787599 | 27.84% | 3.953% |
| 79 | 21.115 | 3097 | 3099 | 3107 | rVB | 1149181 | 1450442 | 8.43% | 1.198% |
| 80 | 21.233 | 3116 | 3119 | 3124 | rBV | 285914 | 365091 | 2.12% | 0.301% |
| 81 | 21.392 | 3141 | 3146 | 3152 | rBV2 | 188350 | 316321 | 1.84% | 0.261% |
| 82 | 21.621 | 3179 | 3185 | 3188 | rVV | 193561 | 283377 | 1.65% | 0.234% |
| 83 | 21.839 | 3219 | 3222 | 3228 | rVB2 | 168042 | 226323 | 1.32% | 0.187% |
| 84 | 21.903 | 3228 | 3233 | 3243 | rVB7 | 82427 | 184020 | 1.07% | 0.152% |
| 85 | 22.592 | 3343 | 3350 | 3354 | rBV | 466084 | 1047028 | 6.09% | 0.864% |
| 86 | 23.039 | 3420 | 3426 | 3431 | rBV | 191254 | 342684 | 1.99% | 0.283% |
| 87 | 23.127 | 3436 | 3441 | 3448 | rVB | 300324 | 596967 | 3.47% | 0.493% |
| 88 | 23.221 | 3450 | 3457 | 3462 | rBV | 807289 | 1432906 | 8.33% | 1.183% |

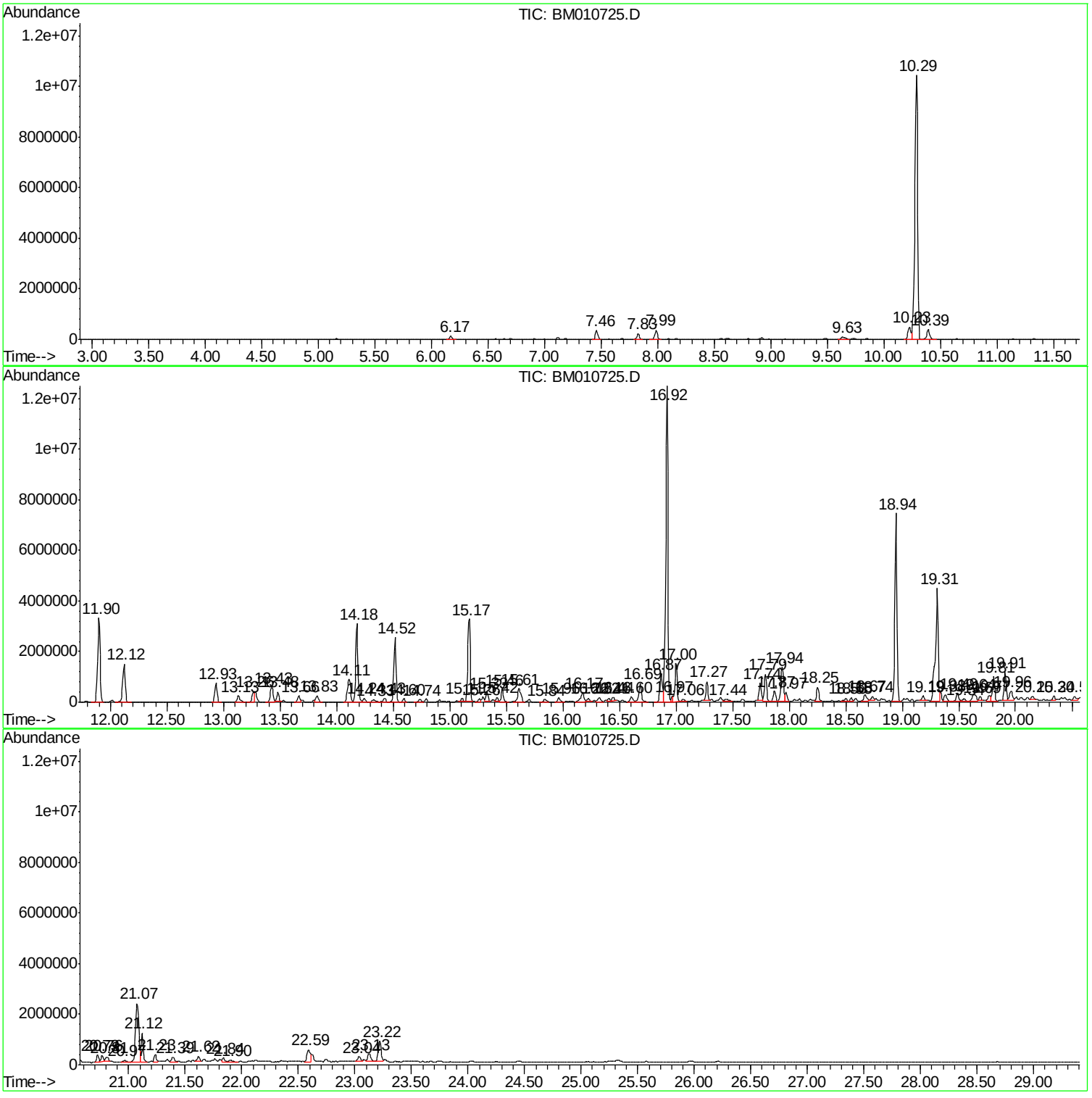
Sum of corrected areas: 121120896

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

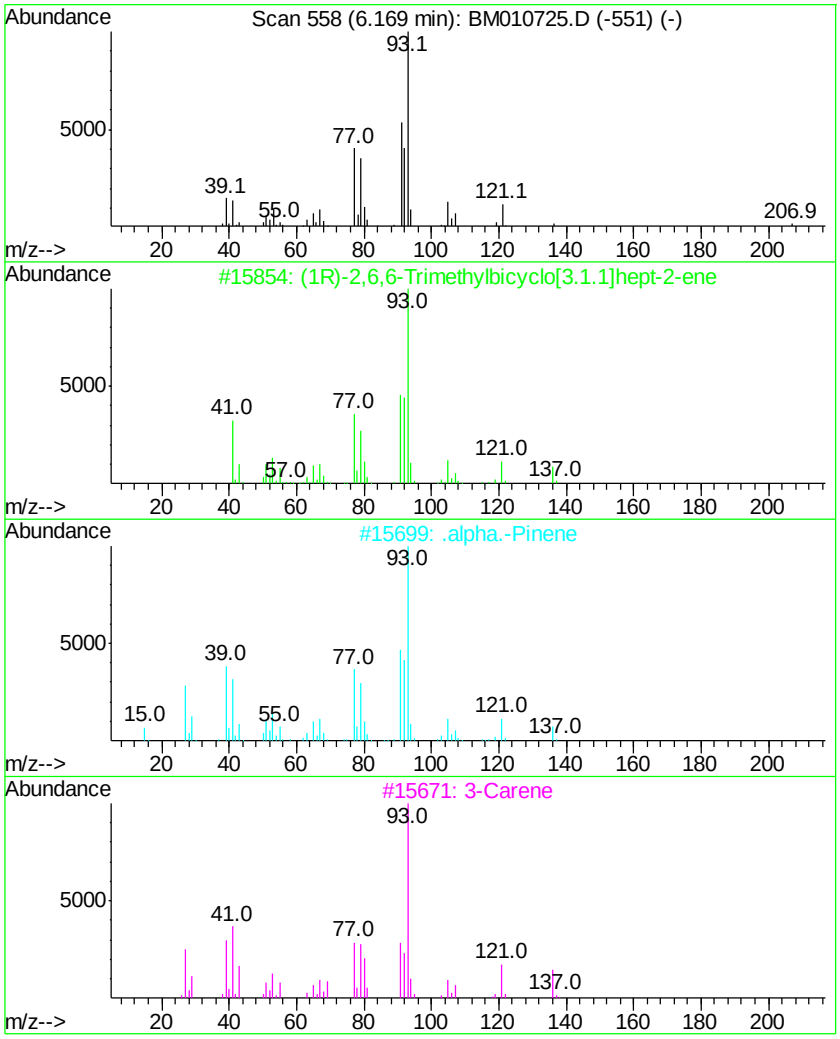
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

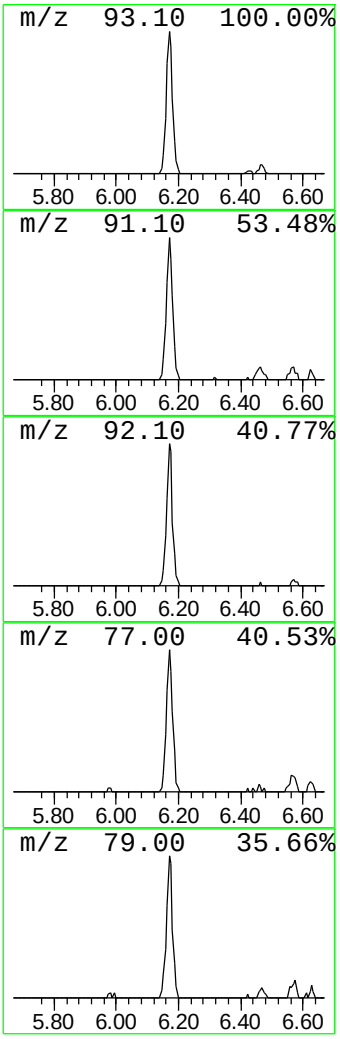
**********

Peak Number 1 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.17 | 7.08 ng/ul | 199155 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16 | 007785-70-8 | 94 |
| 2 | .alpha.-Pinene | 136 | C10H16 | 000080-56-8 | 94 |
| 3 | 3-Carene | 136 | C10H16 | 013466-78-9 | 87 |
| 4 | trans-.beta.-Ocimene | 136 | C10H16 | 003779-61-1 | 87 |
| 5 | .gamma.-Terpinene | 136 | C10H16 | 000099-85-4 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

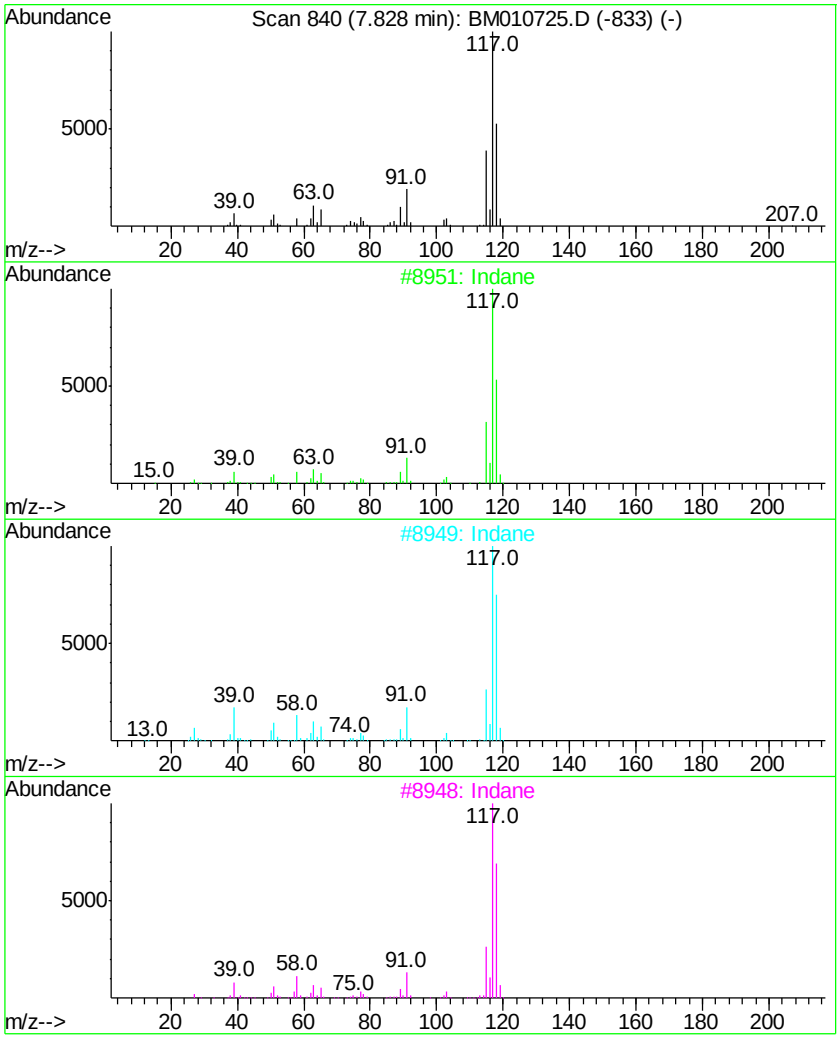
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

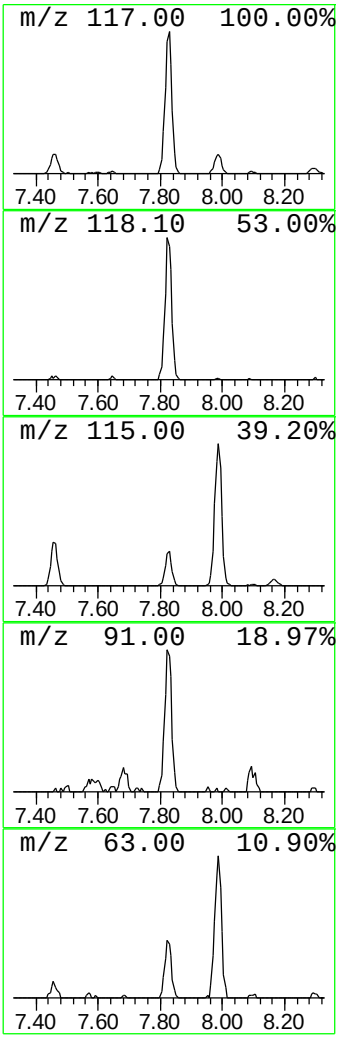
**********

Peak Number 2 Indane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.83 | 13.21 ng/ul | 371625 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 3 | Indane | 118 | C9H10 | 000496-11-7 | 70 |
| 4 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 68 |
| 5 | Deltacyclene | 118 | C9H10 | 007785-10-6 | 52 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

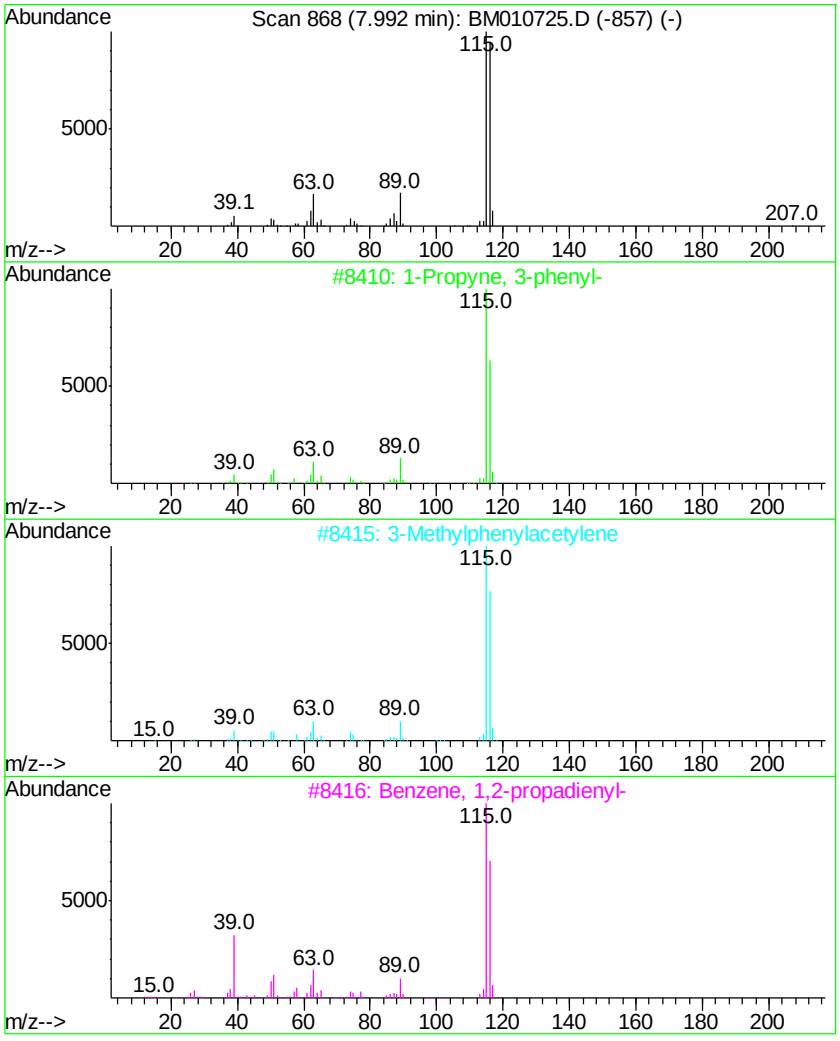
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

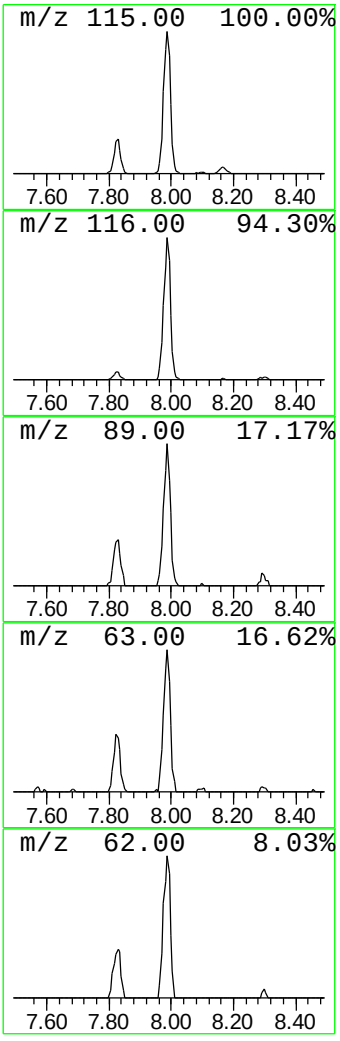
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.99 | 20.80 ng/ul | 585087 | 1,4-Dichlorobenzene-d4 | 7.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propyne, 3-phenyl- | 116 | C9H8 | 010147-11-2 | 91 |
| 2 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 91 |
| 3 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 91 |
| 4 | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8 | 000766-97-2 | 90 |
| 5 | Indene | 116 | C9H8 | 000095-13-6 | 87 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

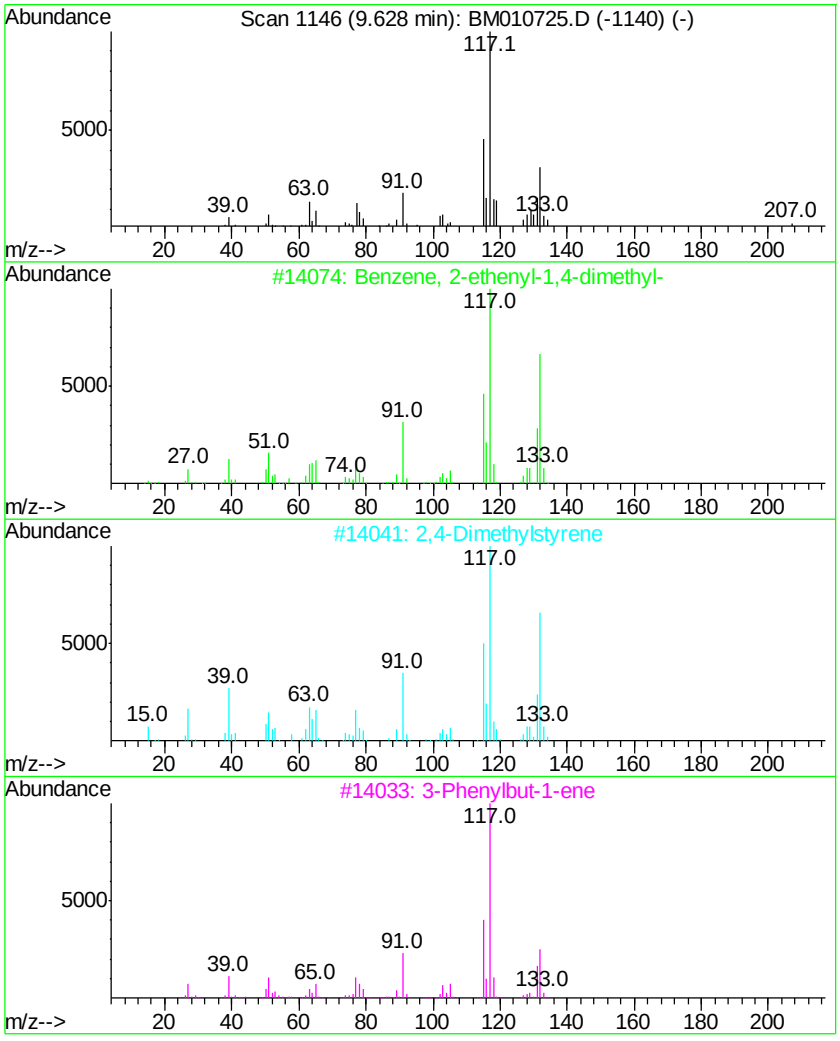
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

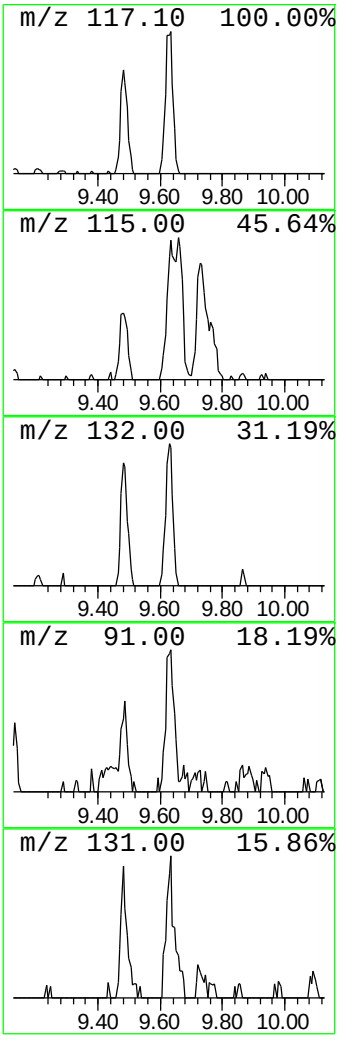
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.63 | 5.63 ng/ul | 257702 | Naphthalene-d8 | 10.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 90 |
| 2 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 81 |
| 3 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 81 |
| 4 | (E)-1-Phenyl-1-butene | 132 | C10H12 | 001005-64-7 | 68 |
| 5 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

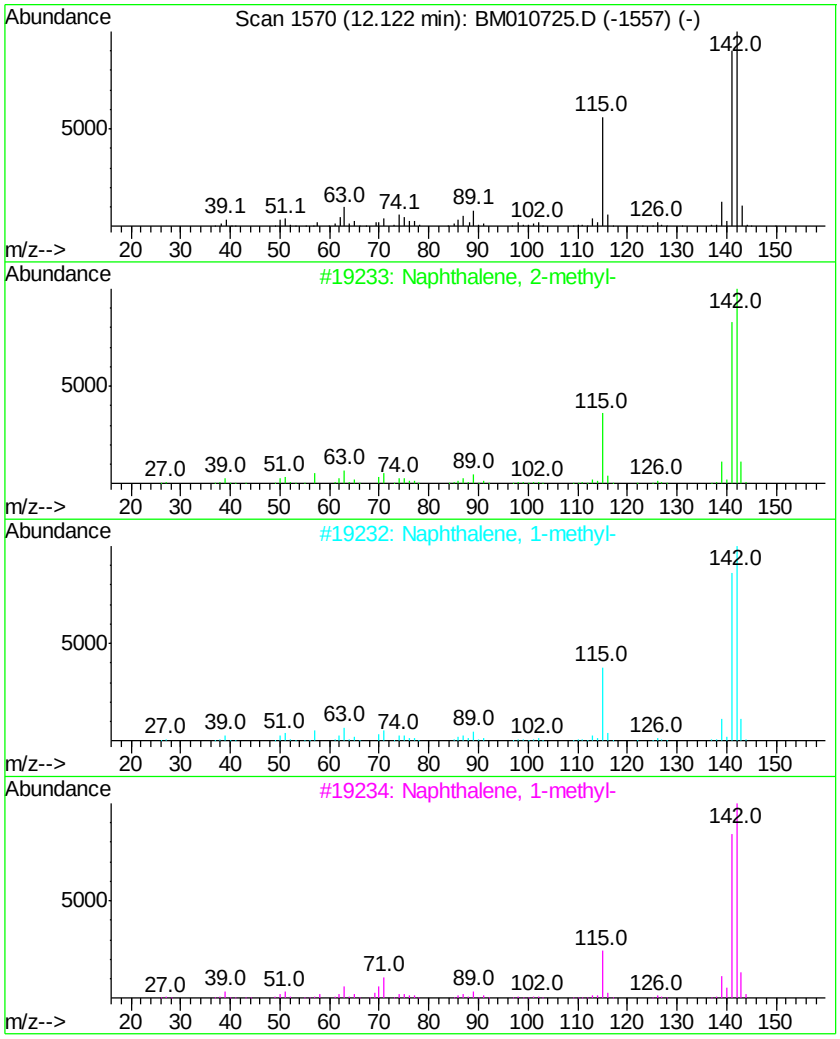
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

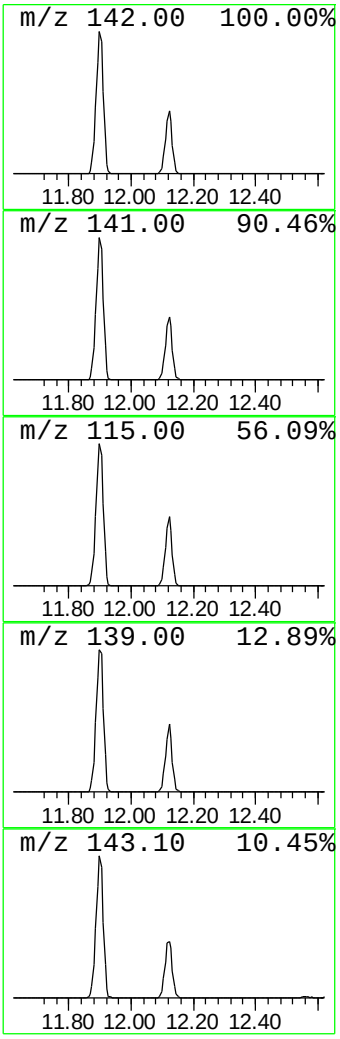
**********

Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 52.15 ng/ul | 2386760 | Naphthalene-d8 | 10.23 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 95 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 95 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 94 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 5 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

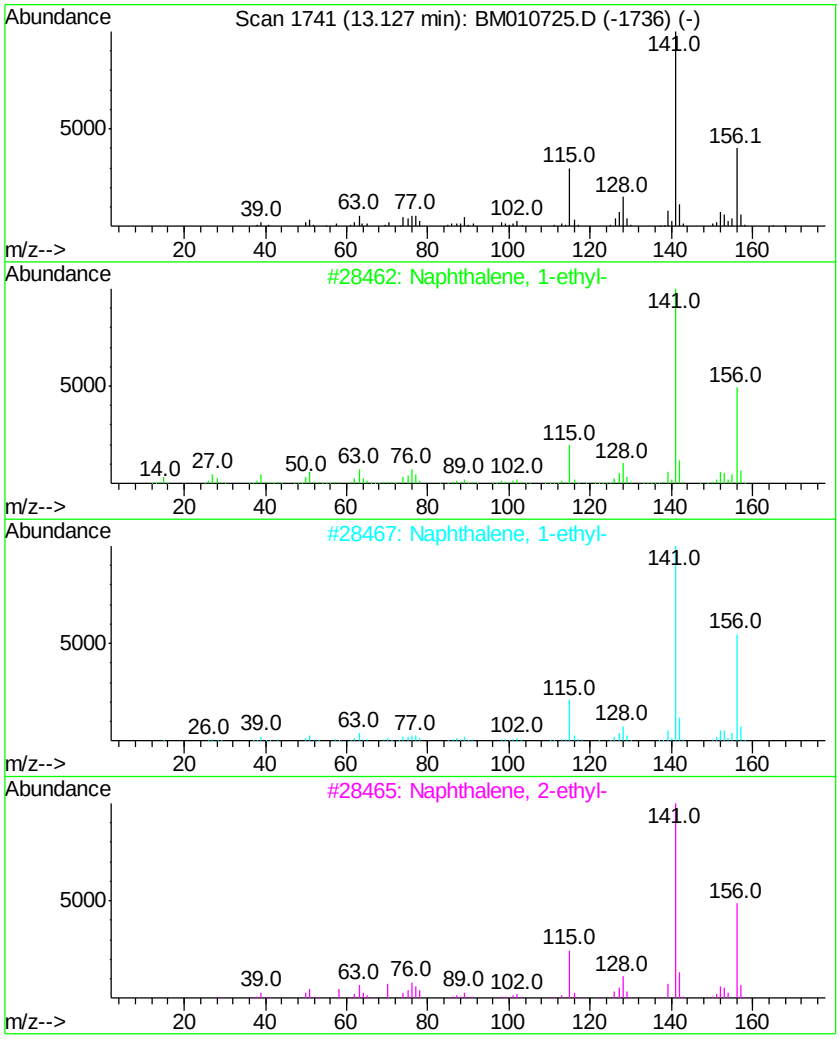
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

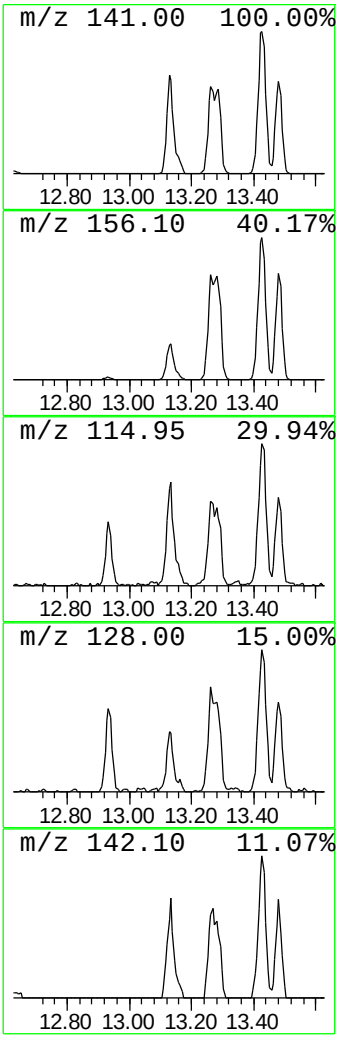
**********

Peak Number 6 Naphthalene, 1-ethyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.13 | 5.27 ng/ul | 449508 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 95 |
| 2 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 95 |
| 3 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 93 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 91 |
| 5 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 91 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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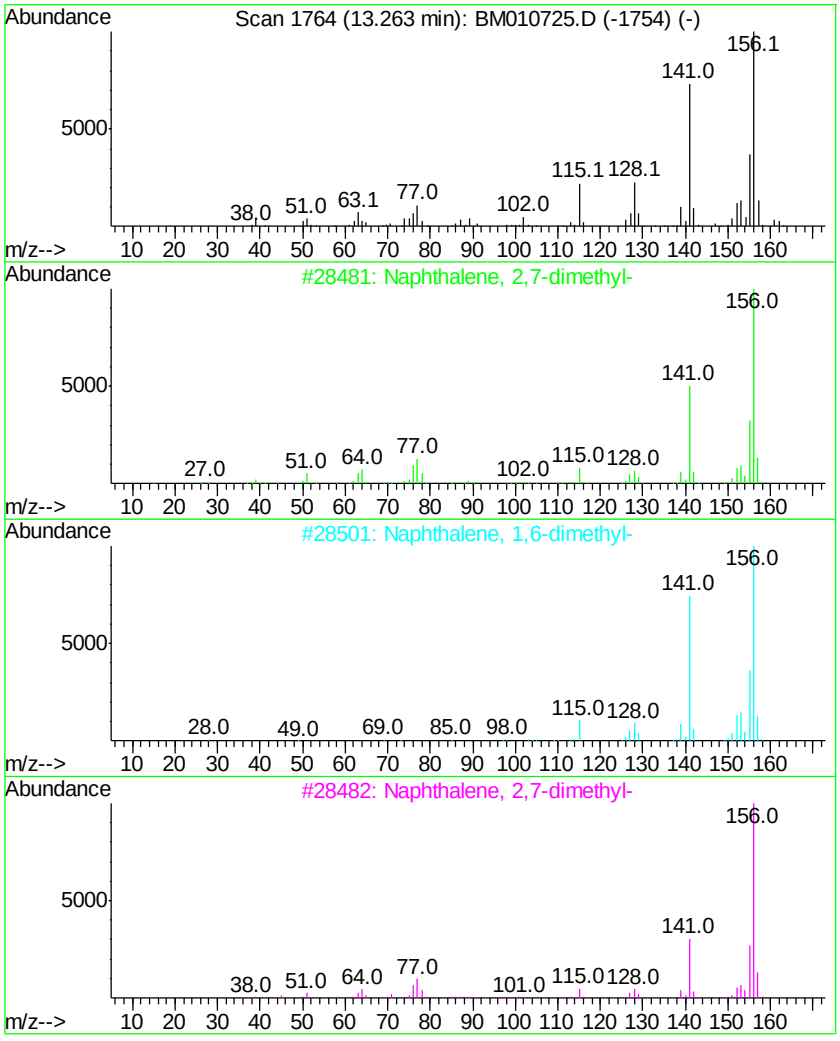
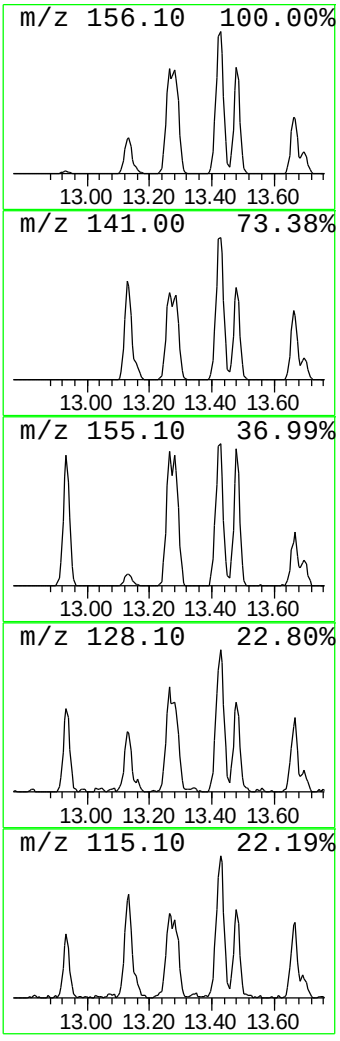
Peak Number 7 Naphthalene, 2,7-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.26 | 7.53 ng/ul | 642699 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 95 |
| 2 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 95 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 95 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 93 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 93 |



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Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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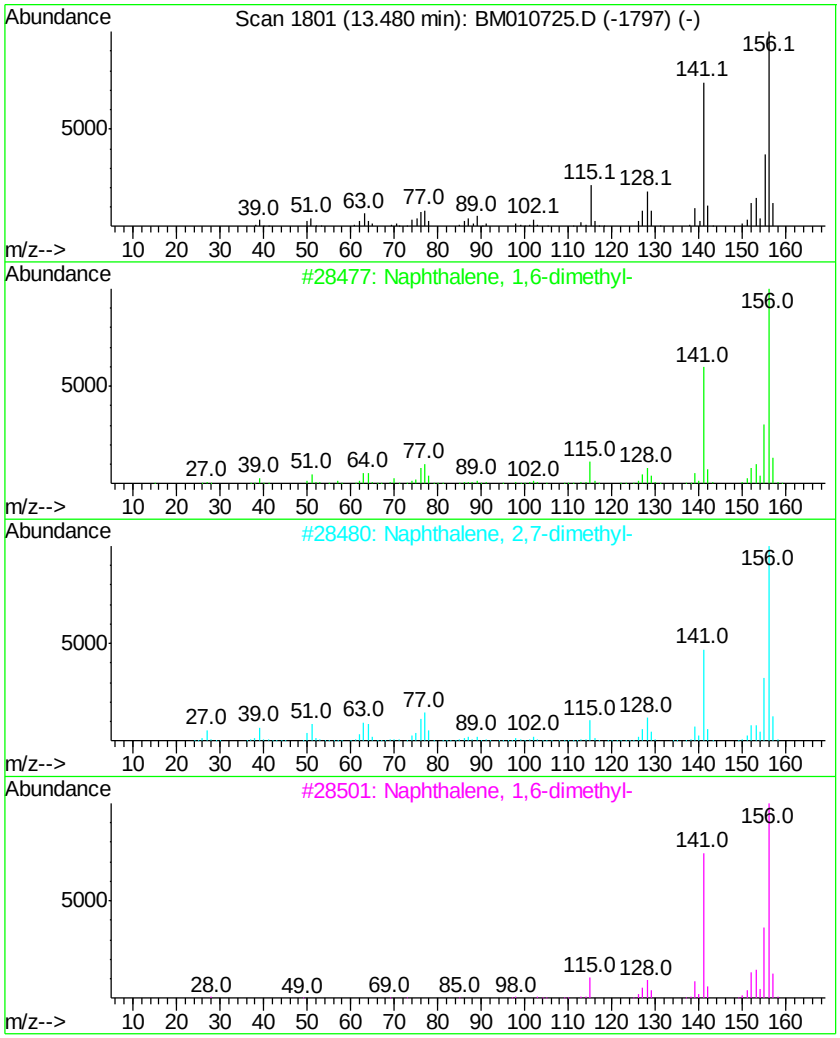
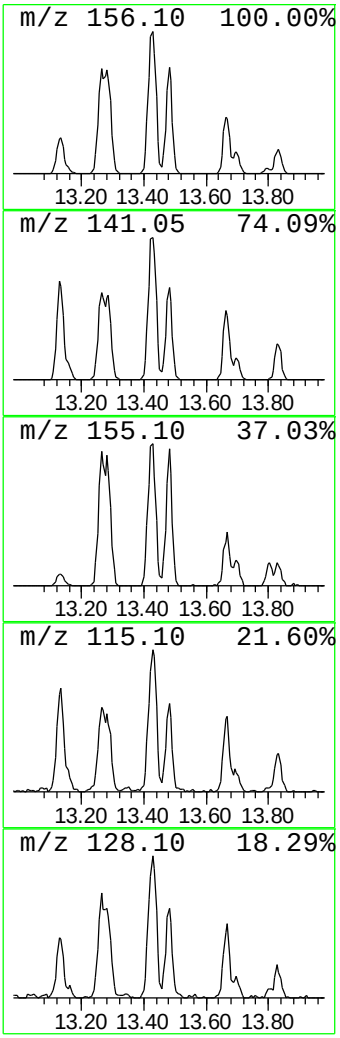
Peak Number 9 Naphthalene, 1,6-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.48 | 5.97 ng/ul | 509424 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 95 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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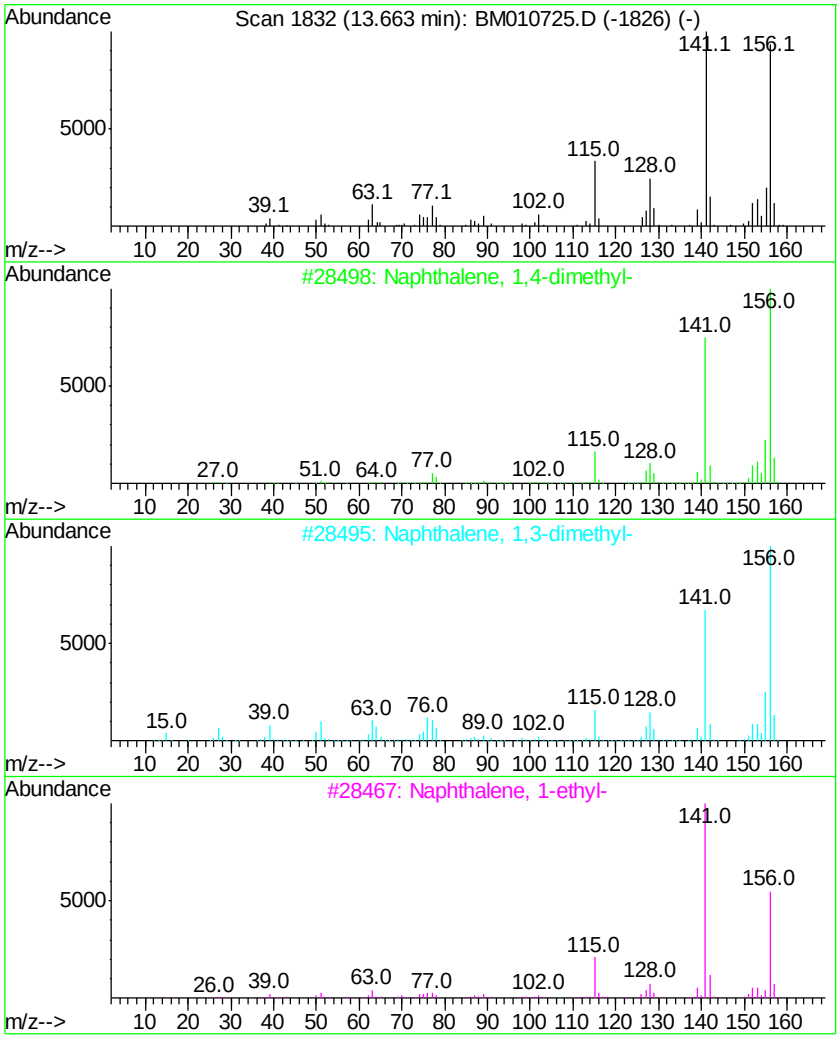
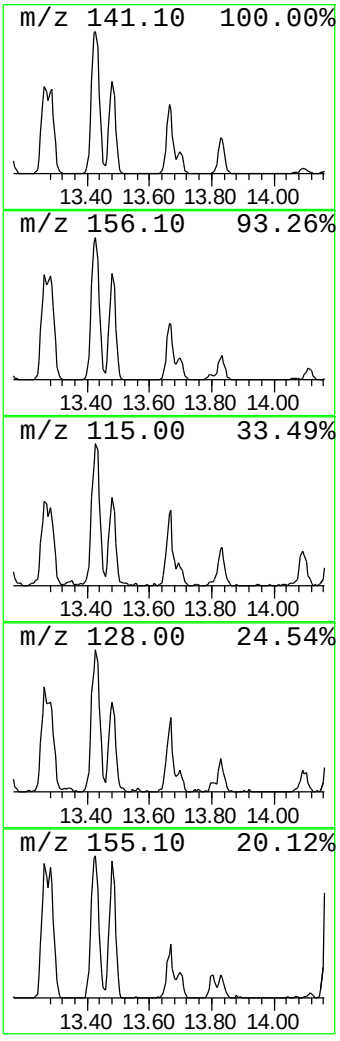
Peak Number 10 Naphthalene, 1,4-dimethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.66 | 4.42 ng/ul | 376760 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 94 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 94 |
| 3 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 93 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 93 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 93 |



# Library Search Compound Report

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Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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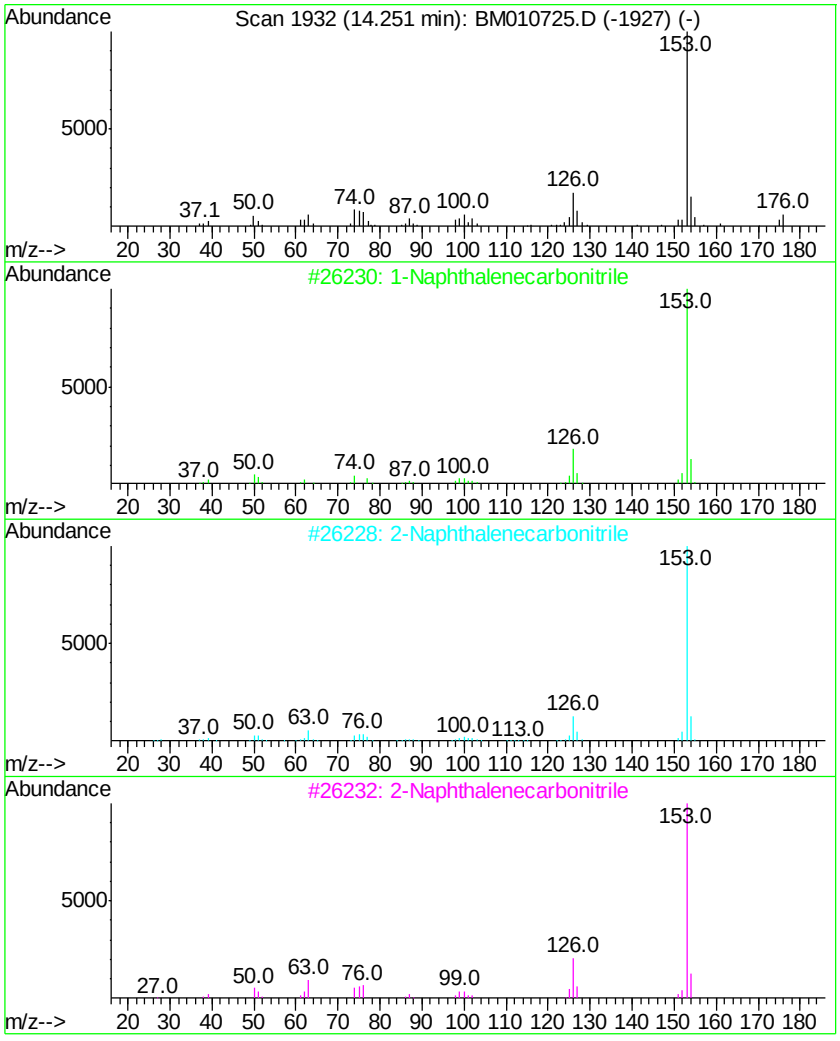
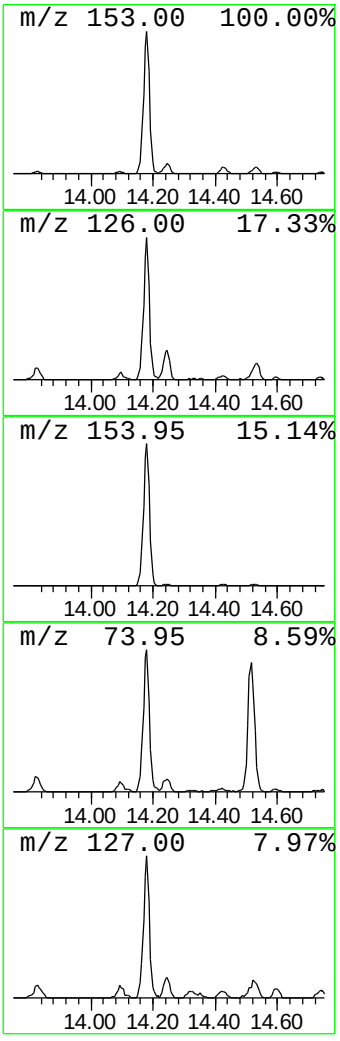
Peak Number 11 1-Naphthalenecarbonitrile Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.25 | 2.46 ng/ul | 209412 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Naphthalenecarbonitrile | 153 | C11H7N | 000086-53-3 | 87 |
| 2 | 2-Naphthalenecarbonitrile | 153 | C11H7N | 000613-46-7 | 87 |
| 3 | 2-Naphthalenecarbonitrile | 153 | C11H7N | 000613-46-7 | 86 |
| 4 | 2-Naphthalenecarbonitrile | 153 | C11H7N | 000613-46-7 | 86 |
| 5 | 1-Naphthalenecarbonitrile | 153 | C11H7N | 000086-53-3 | 80 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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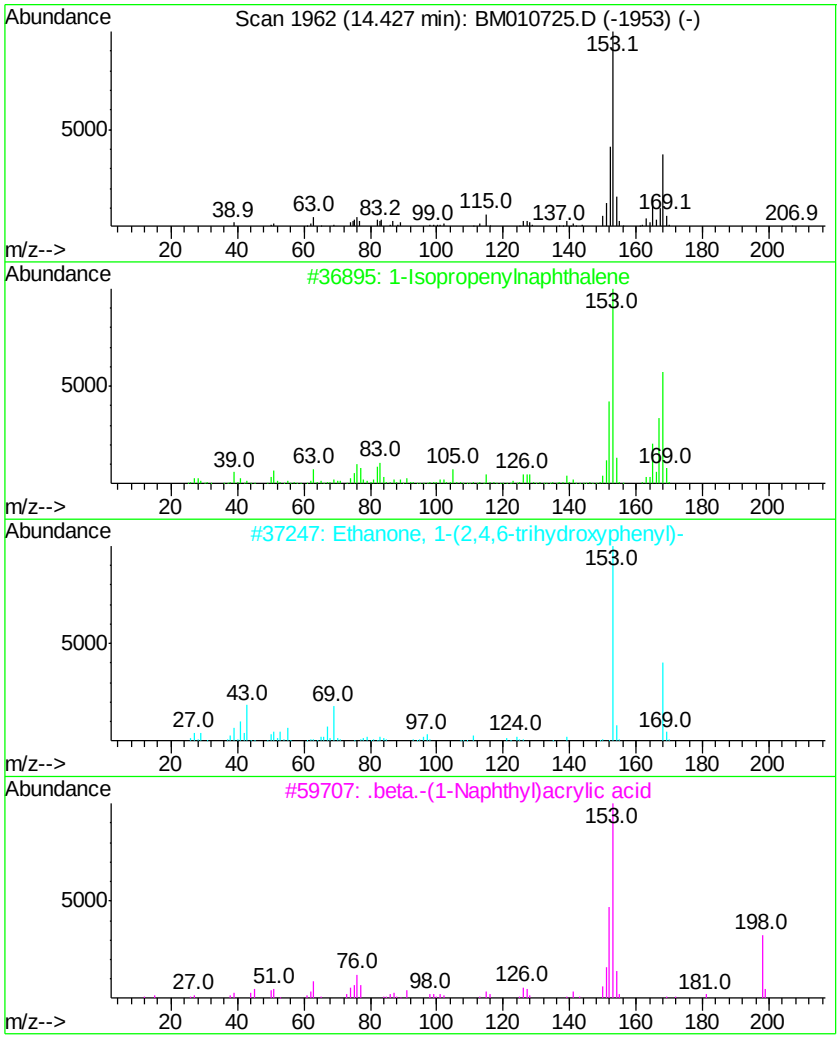
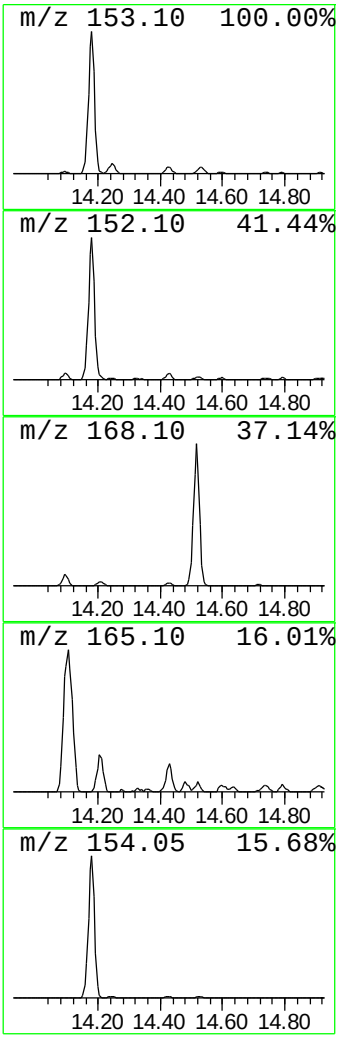
Peak Number 12 1-Isopropenylnaphthalene Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.43 | 2.92 ng/ul | 248730 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Isopropenylnaphthalene | 168 | C13H12 | 001855-47-6 | 87 |
| 2 | Ethanone, 1-(2,4,6-trihydroxyphe... | 168 | C8H8O4 | 000480-66-0 | 47 |
| 3 | .beta.-(1-Naphthyl)acrylic acid | 198 | C13H10O2 | 013026-12-5 | 45 |
| 4 | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12 | 002320-32-3 | 45 |
| 5 | Ethanone, 1-(2,3,4-trihydroxyphe... | 168 | C8H8O4 | 000528-21-2 | 43 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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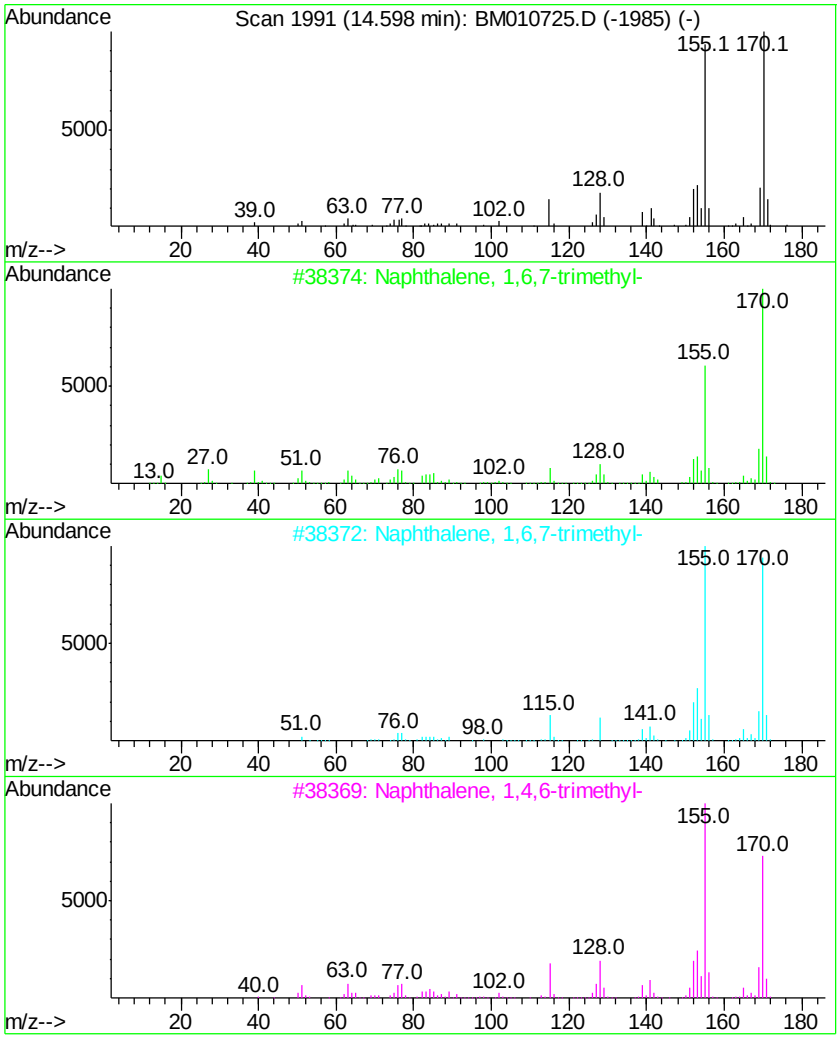
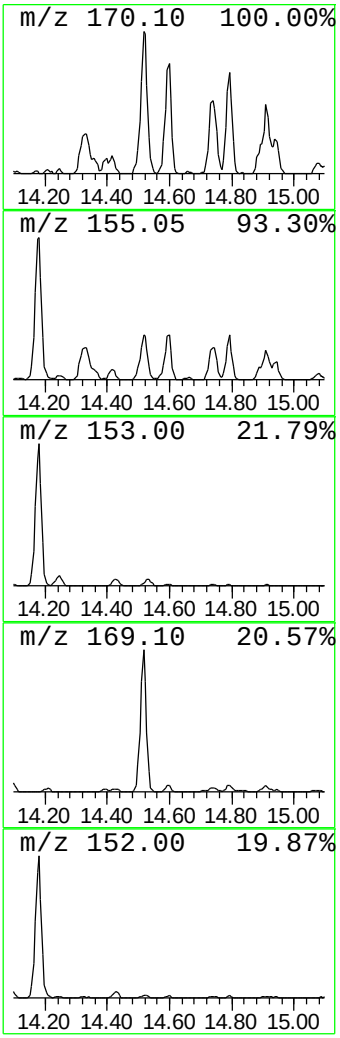
Peak Number 13 Naphthalene, 1,6,7-trimethyl- Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.60 | 2.12 ng/ul | 181023 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 97 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 96 |
| 3 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |
| 4 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 95 |
| 5 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 94 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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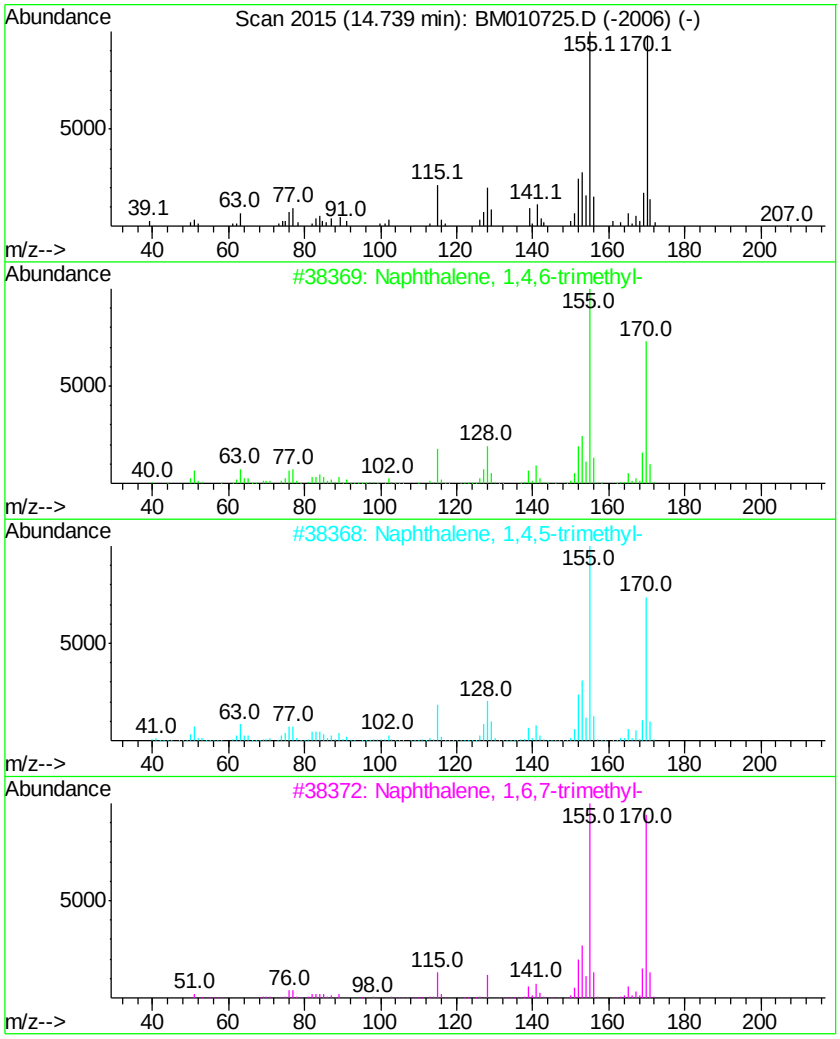
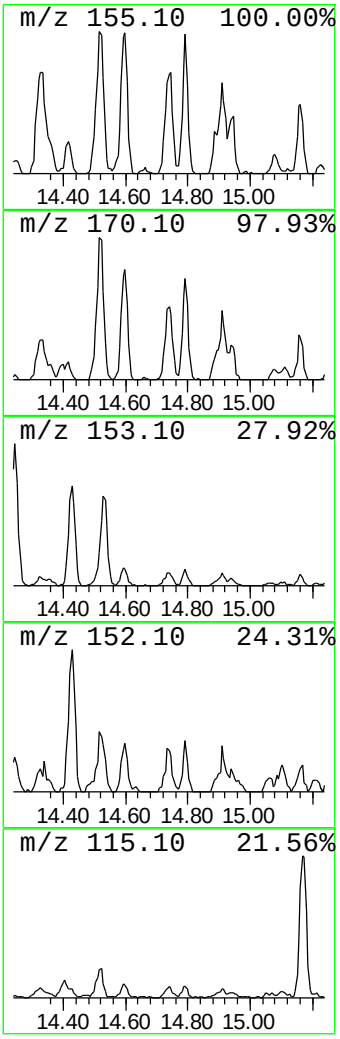
Peak Number 14 Naphthalene, 1,4,6-trimethyl- Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.74 | 2.25 ng/ul | 191516 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 98 |
| 2 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 97 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 96 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 96 |
| 5 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 94 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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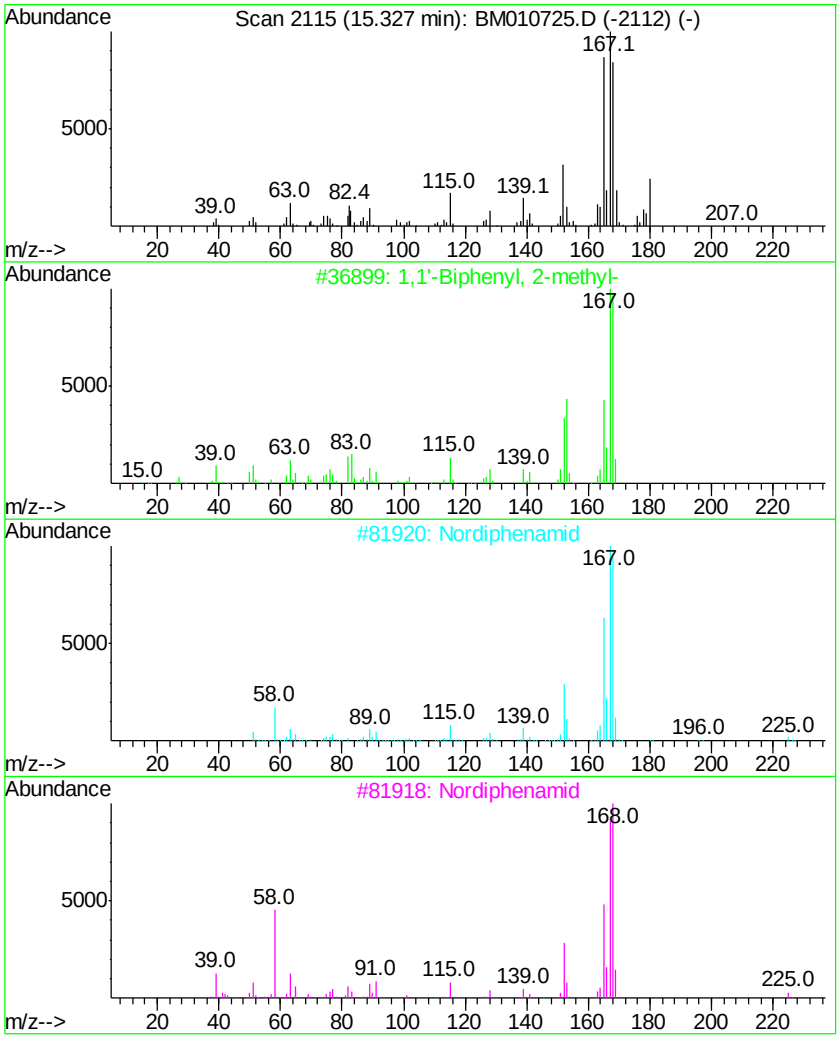
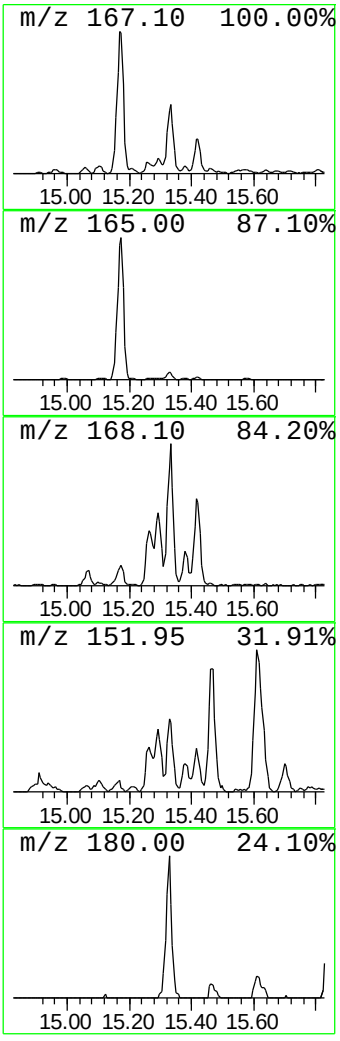
Peak Number 15 1,1'-Biphenyl, 2-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.33 | 5.82 ng/ul | 496443 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 83 |
| 2 | Nordiphenamid | 225 | C15H15NO | 000954-21-2 | 64 |
| 3 | Nordiphenamid | 225 | C15H15NO | 000954-21-2 | 59 |
| 4 | Fluorene, 1,4-dihydro- | 168 | C13H12 | 041593-21-9 | 55 |
| 5 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 52 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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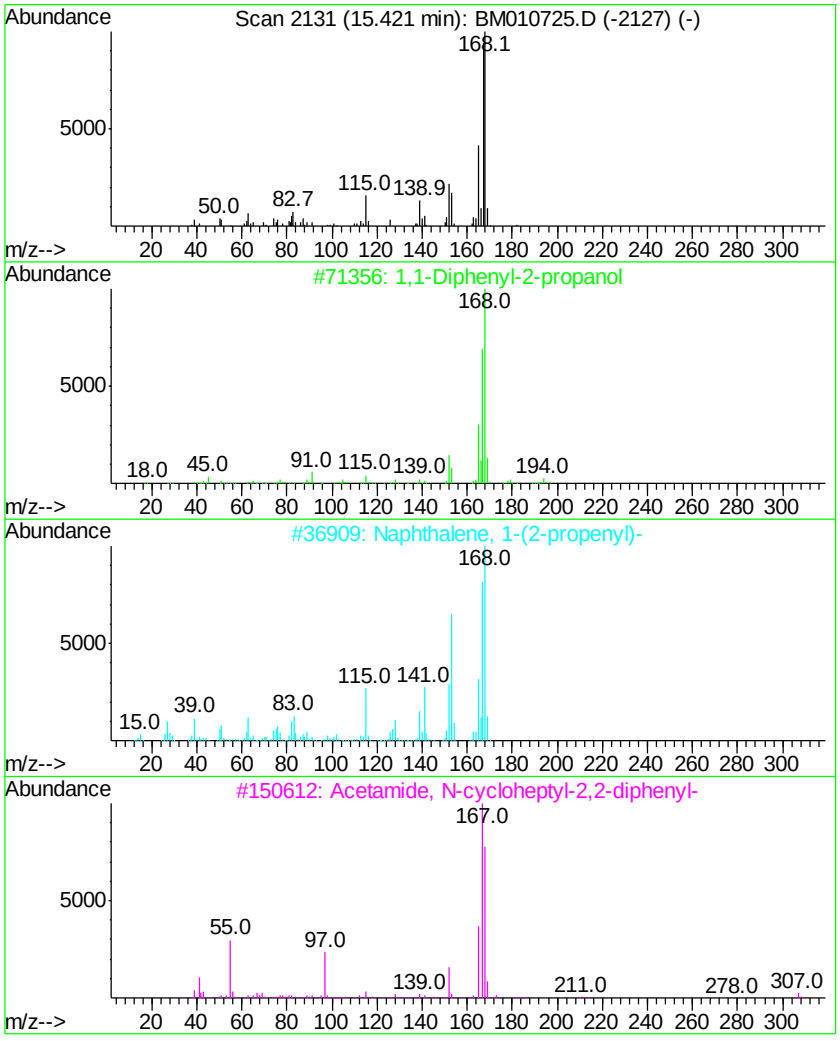
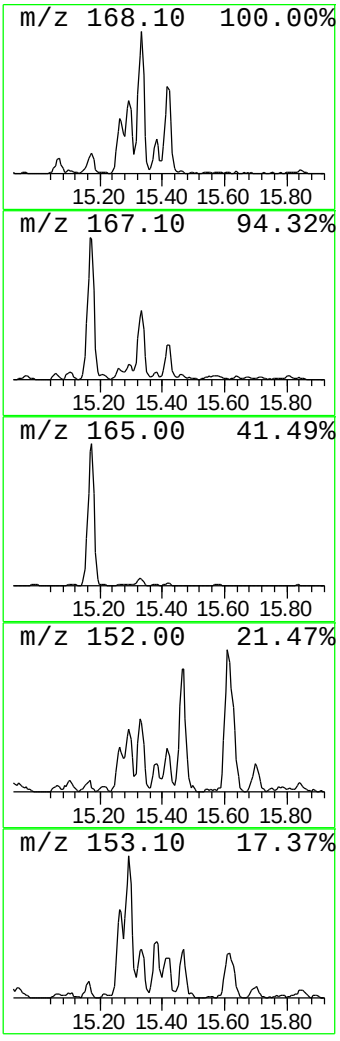
Peak Number 16 1,1-Diphenyl-2-propanol Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.42 | 2.55 ng/ul | 217431 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1-Diphenyl-2-propanol | 212 | C15H16O | 029338-49-6 | 83 |
| 2 | Naphthalene, 1-(2-propenyl)- | 168 | C13H12 | 002489-86-3 | 74 |
| 3 | Acetamide, N-cycloheptyl-2,2-dip... | 307 | C21H25NO | 351062-01-6 | 72 |
| 4 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 68 |
| 5 | Diphenylmethane | 168 | C13H12 | 000101-81-5 | 68 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

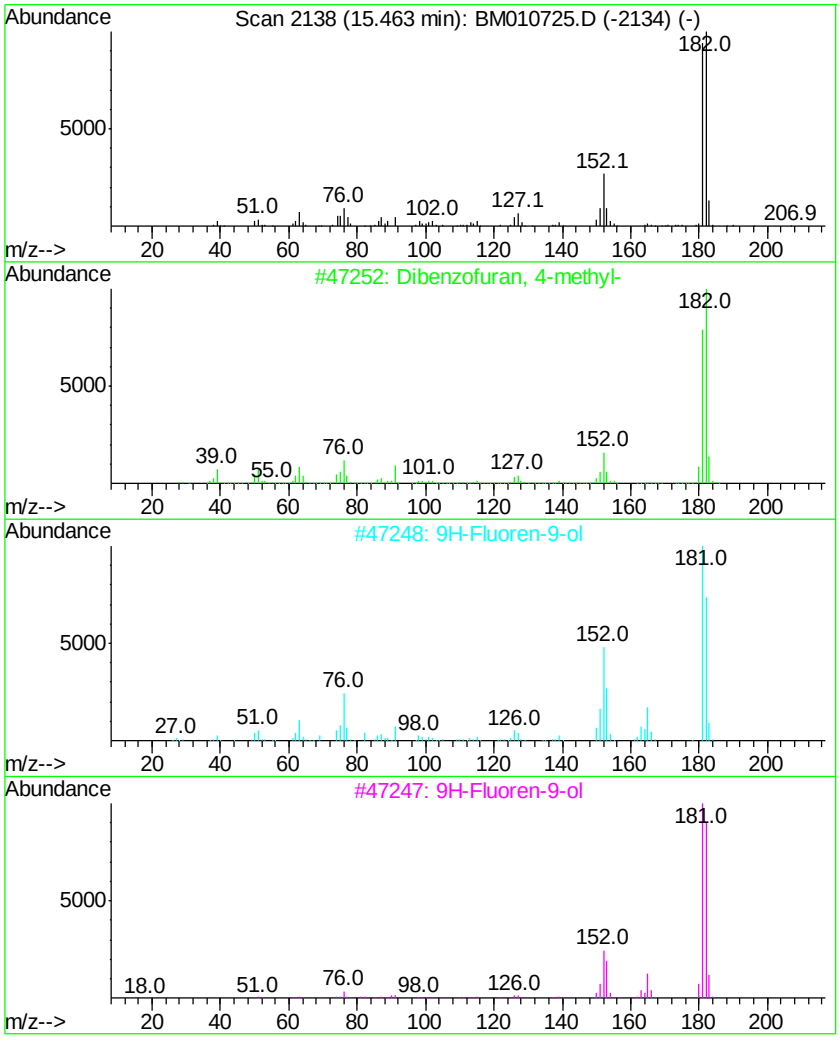
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

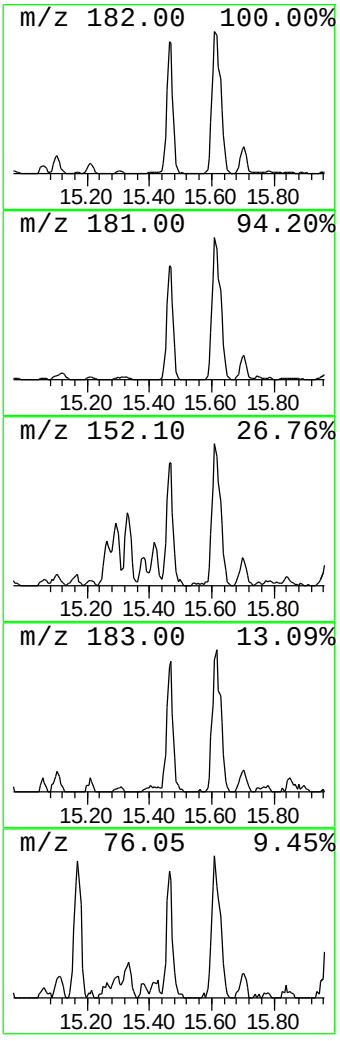
**********

Peak Number 17 Dibenzofuran, 4-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.46 | 8.48 ng/ul | 722962 | Acenaphthene-d10 | 14.11 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 94 |
| 2 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |
| 3 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |
| 4 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 74 |
| 5 | 2-Hydroxyfluorene | 182 | C13H10O | 002443-58-5 | 64 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

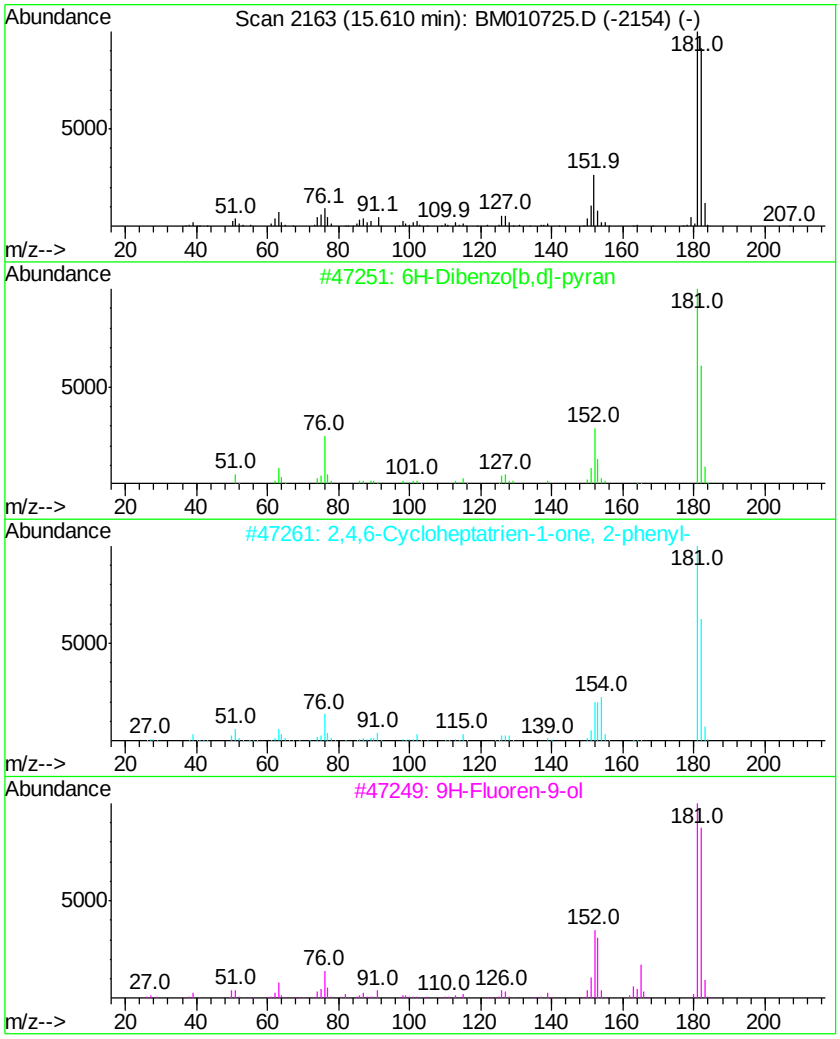
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

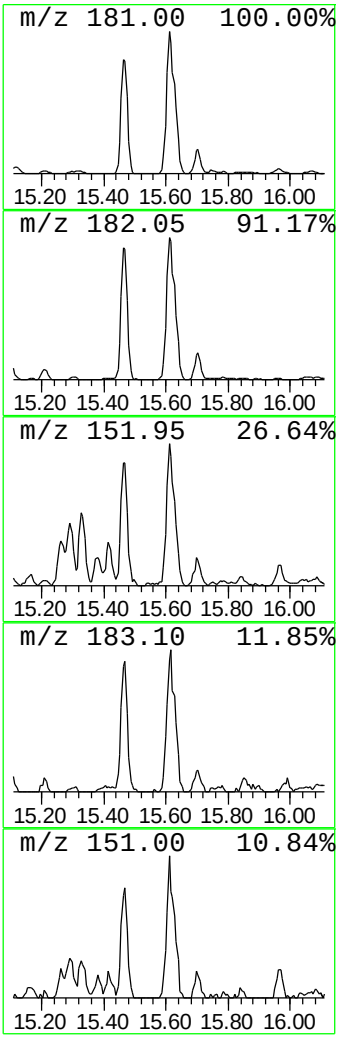
**********

Peak Number 18 6H-Dibenzo[b,d]-pyran Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.61 | 12.51 ng/ul | 1106900 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 6H-Dibenzo[b,d]-pyran | 182 | C13H10O | 000229-95-8 | 94 |
| 2 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 87 |
| 3 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |
| 4 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 86 |
| 5 | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 86 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

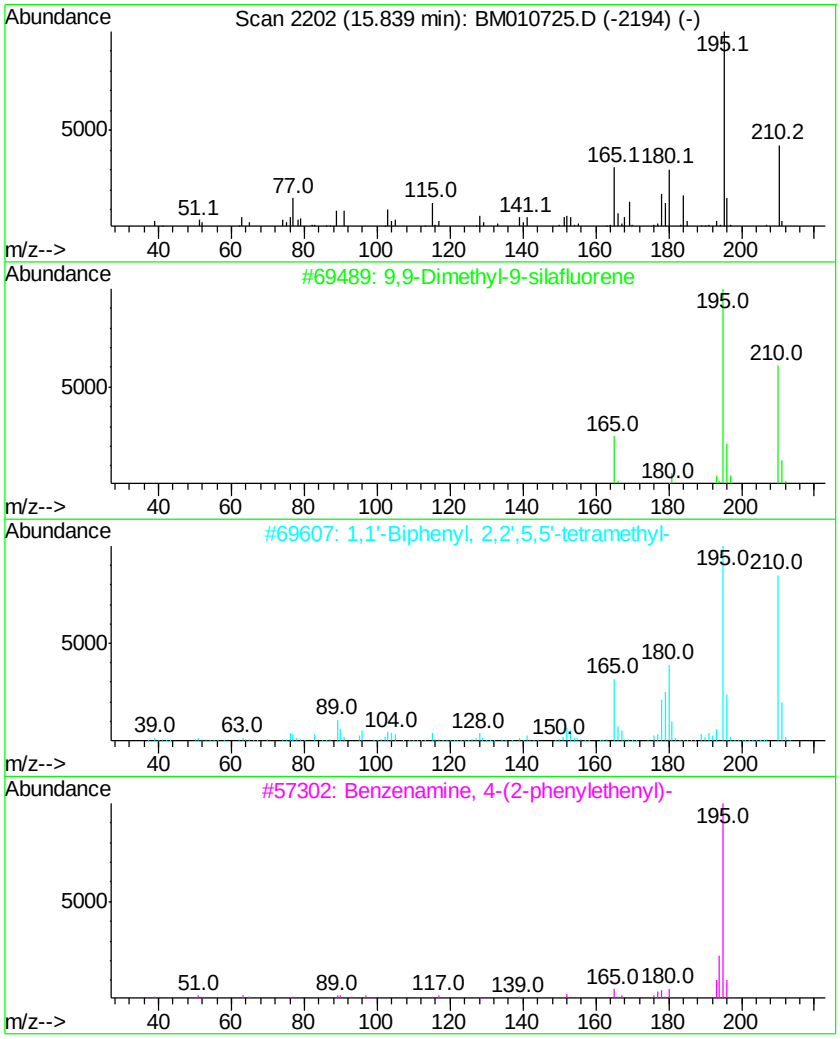
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

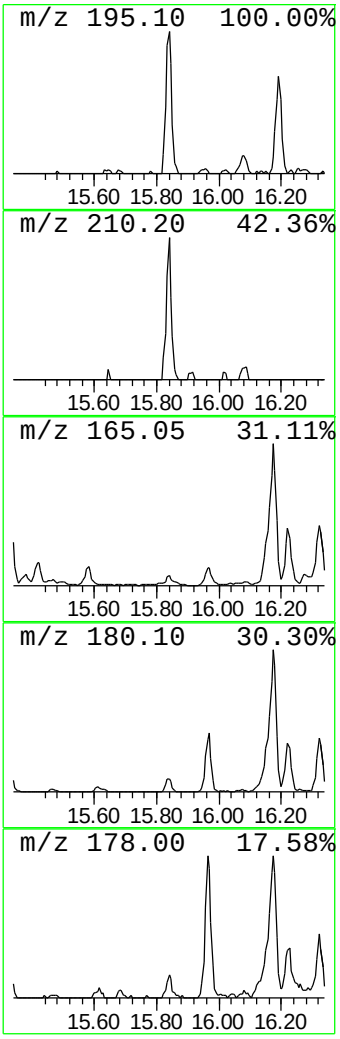
**********

Peak Number 19 9,9-Dimethyl-9-silafluorene Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.84 | 2.12 ng/ul | 187936 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,9-Dimethyl-9-silafluorene | 210 | C14H14Si | 013688-68-1 | 53 |
| 2 | 1,1'-Biphenyl, 2,2',5,5'-tetrame... | 210 | C16H18 | 003075-84-1 | 49 |
| 3 | Benzenamine, 4-(2-phenylethenyl)- | 195 | C14H13N | 000834-24-2 | 49 |
| 4 | Benzenamine, 3-(2-phenylethenyl)... | 195 | C14H13N | 014064-82-5 | 46 |
| 5 | Carbazole, 3,6-dimethyl- | 195 | C14H13N | 005599-50-8 | 43 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

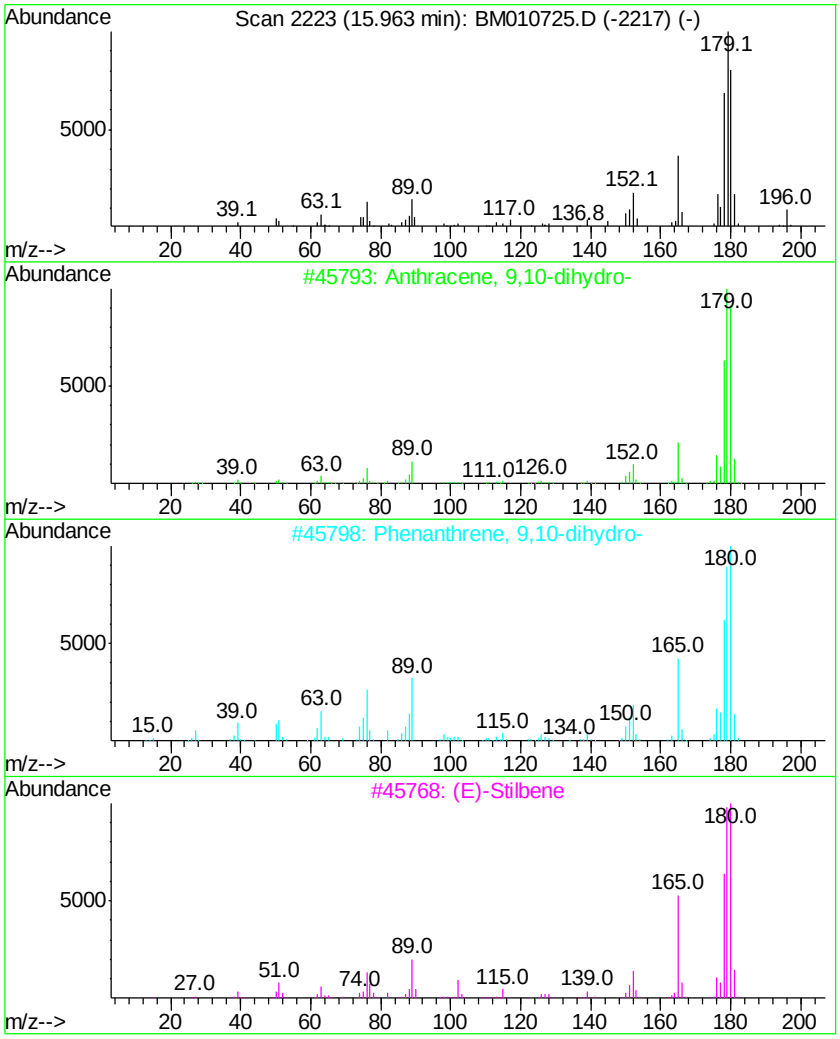
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

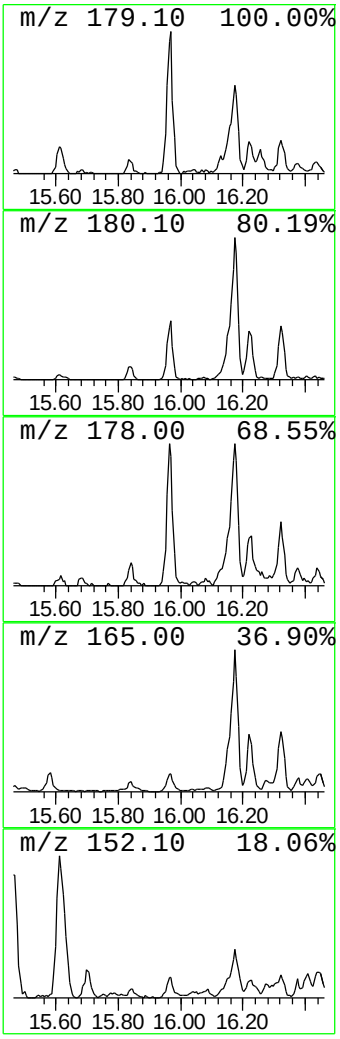
**********

Peak Number 20 Anthracene, 9,10-dihydro- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.96 | 3.15 ng/ul | 278684 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 9,10-dihydro- | 180 | C14H12 | 000613-31-0 | 95 |
| 2 | Phenanthrene, 9,10-dihydro- | 180 | C14H12 | 000776-35-2 | 93 |
| 3 | (E)-Stilbene | 180 | C14H12 | 000103-30-0 | 93 |
| 4 | Phenanthrene, 9,10-dihydro- | 180 | C14H12 | 000776-35-2 | 91 |
| 5 | cis-Stilbene | 180 | C14H12 | 000645-49-8 | 89 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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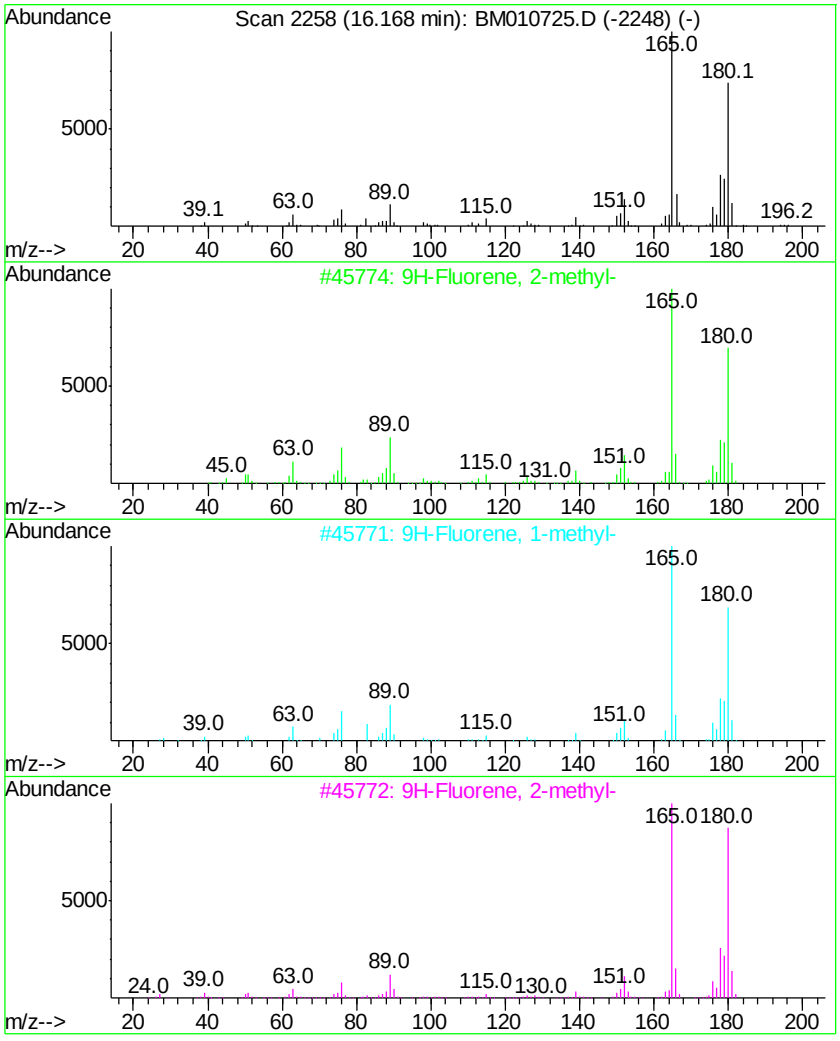
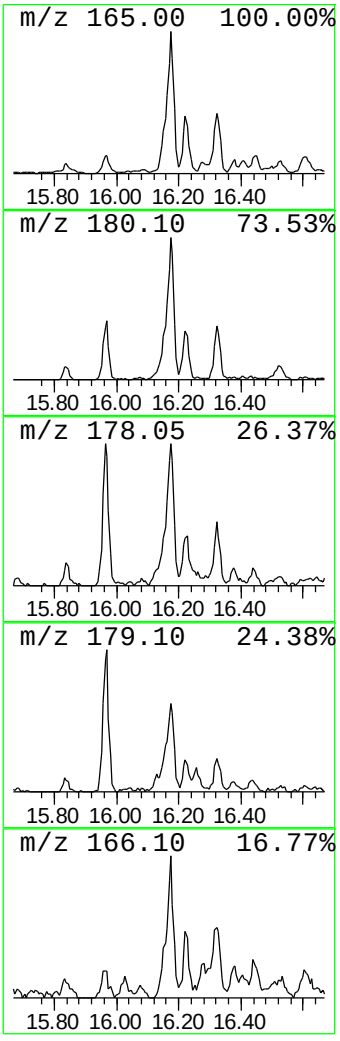
Peak Number 21 9H-Fluorene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.17 | 8.68 ng/ul | 768237 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 95 |
| 2 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 95 |
| 3 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 93 |
| 4 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 91 |
| 5 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 91 |



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Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

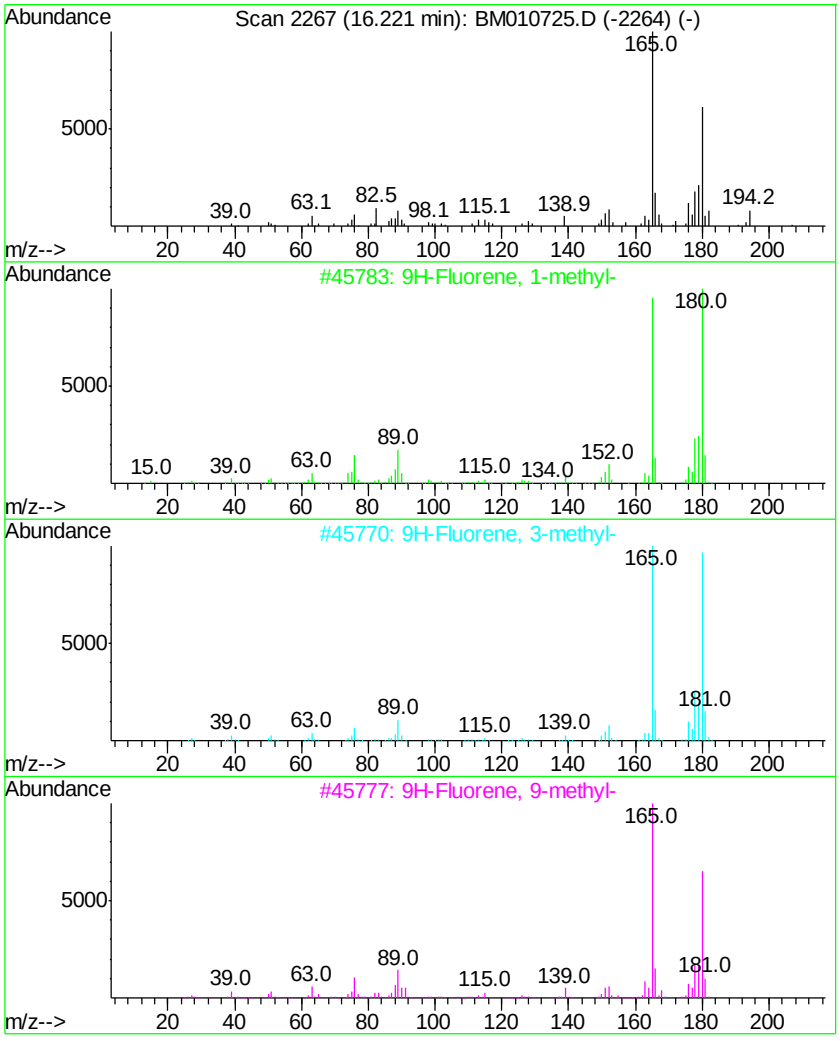
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

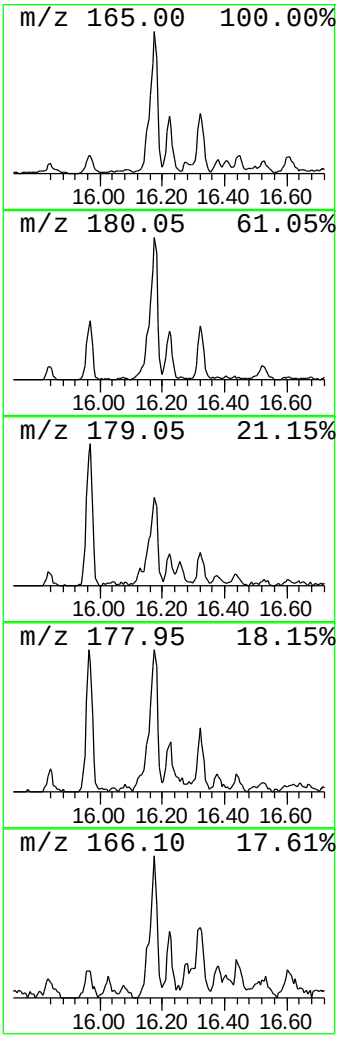
**********

Peak Number 22 9H-Fluorene, 1-methyl- Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.22 | 2.00 ng/ul | 177165 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 81 |
| 2 | 9H-Fluorene, 3-methyl- | 180 | C14H12 | 002523-39-9 | 76 |
| 3 | 9H-Fluorene, 9-methyl- | 180 | C14H12 | 002523-37-7 | 74 |
| 4 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 72 |
| 5 | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 72 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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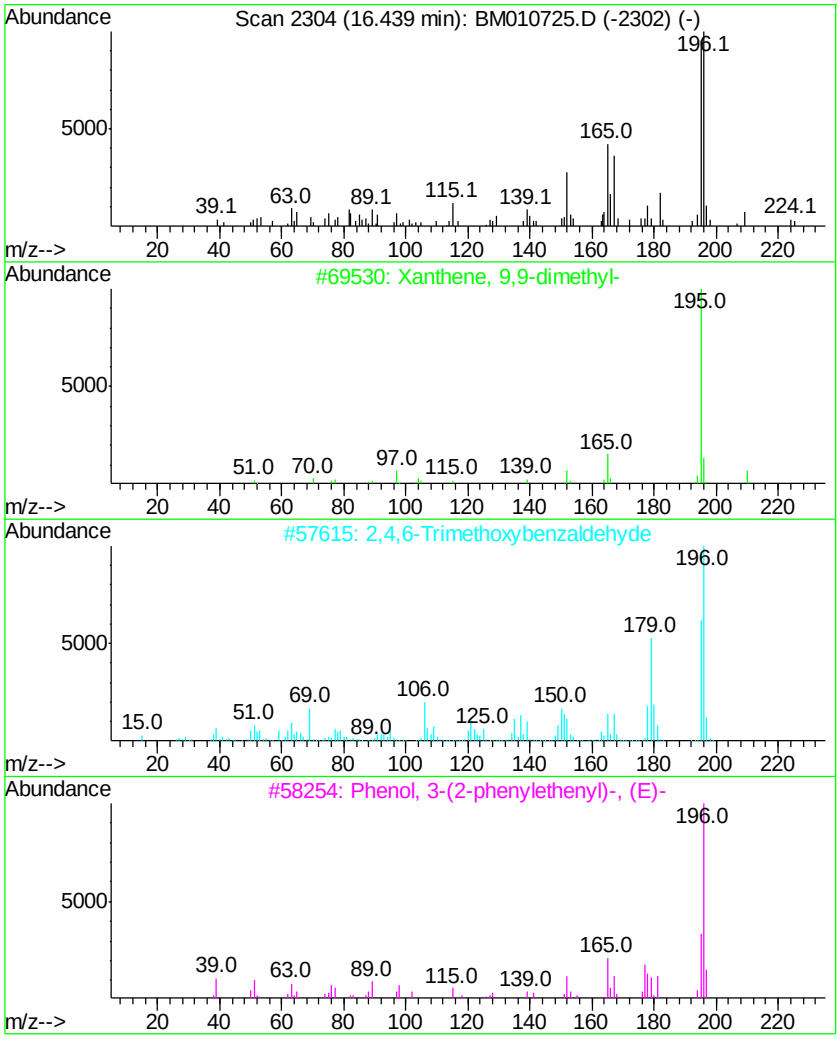
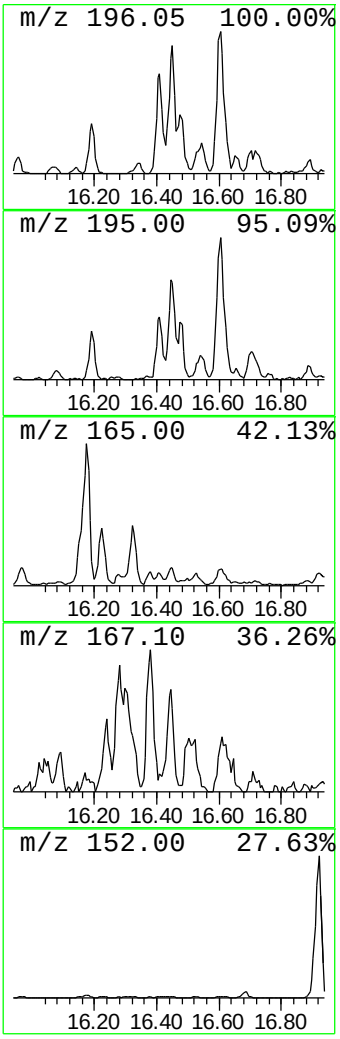
Peak Number 24 Xanthene, 9,9-dimethyl- Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.44 | 2.10 ng/ul | 185445 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Xanthene, 9,9-dimethyl- | 210 | C15H14O | 019814-75-6 | 55 |
| 2 | 2,4,6-Trimethoxybenzaldehyde | 196 | C10H12O4 | 000830-79-5 | 53 |
| 3 | Phenol, 3-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 017861-18-6 | 47 |
| 4 | Phenol, 4-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 006554-98-9 | 46 |
| 5 | 9H-Fluoren-3-ol, 9,9-dimethyl- | 210 | C15H14O | 1000141-55-1 | 46 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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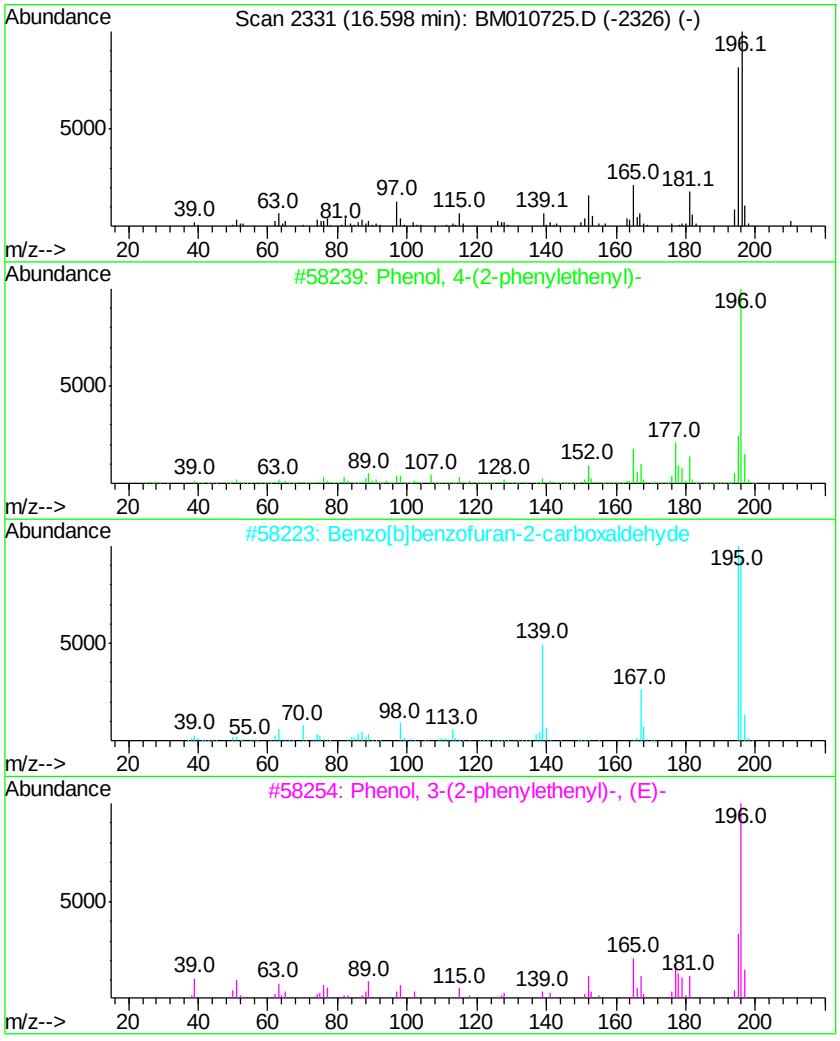
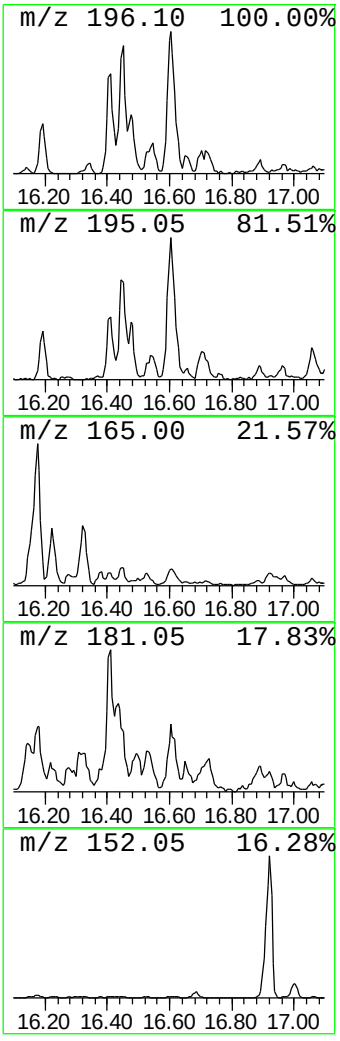
Peak Number 25 Phenol, 4-(2-phenylethenyl)- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.60 | 4.24 ng/ul | 375553 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(2-phenylethenyl)- | 196 | C14H12O | 003839-46-1 | 64 |
| 2 | Benzo[b]benzofuran-2-carboxaldehyde | 196 | C13H8O2 | 1000351-56-0 | 62 |
| 3 | Phenol, 3-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 017861-18-6 | 60 |
| 4 | Methanone, (2-methylphenyl)phenyl- | 196 | C14H12O | 000131-58-8 | 58 |
| 5 | Phenol, 4-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 006554-98-9 | 49 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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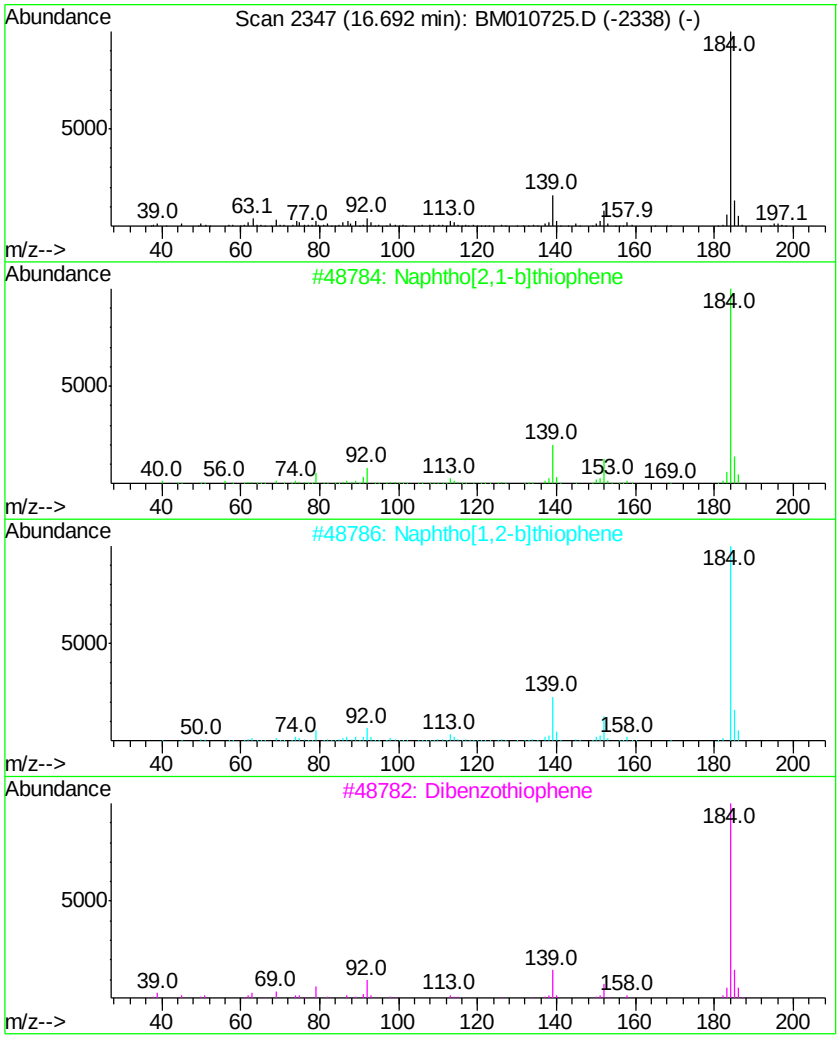
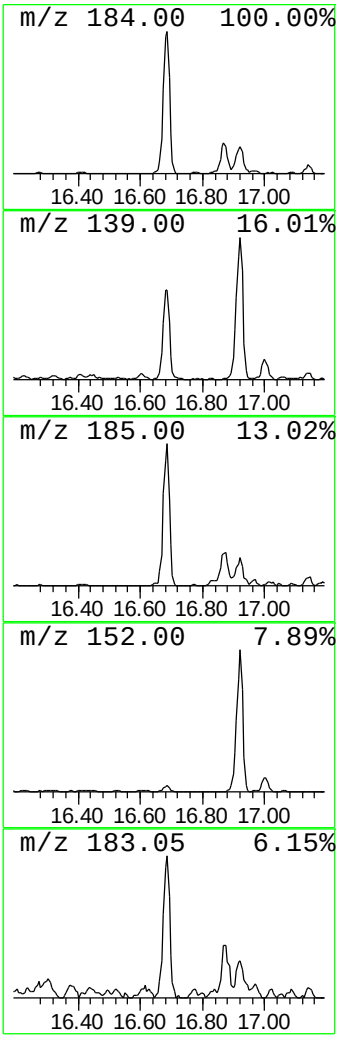
Peak Number 26 Naphtho[2,1-b]thiophene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.69 | 13.35 ng/ul | 1181550 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 2 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 95 |
| 3 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 94 |
| 4 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 93 |
| 5 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 93 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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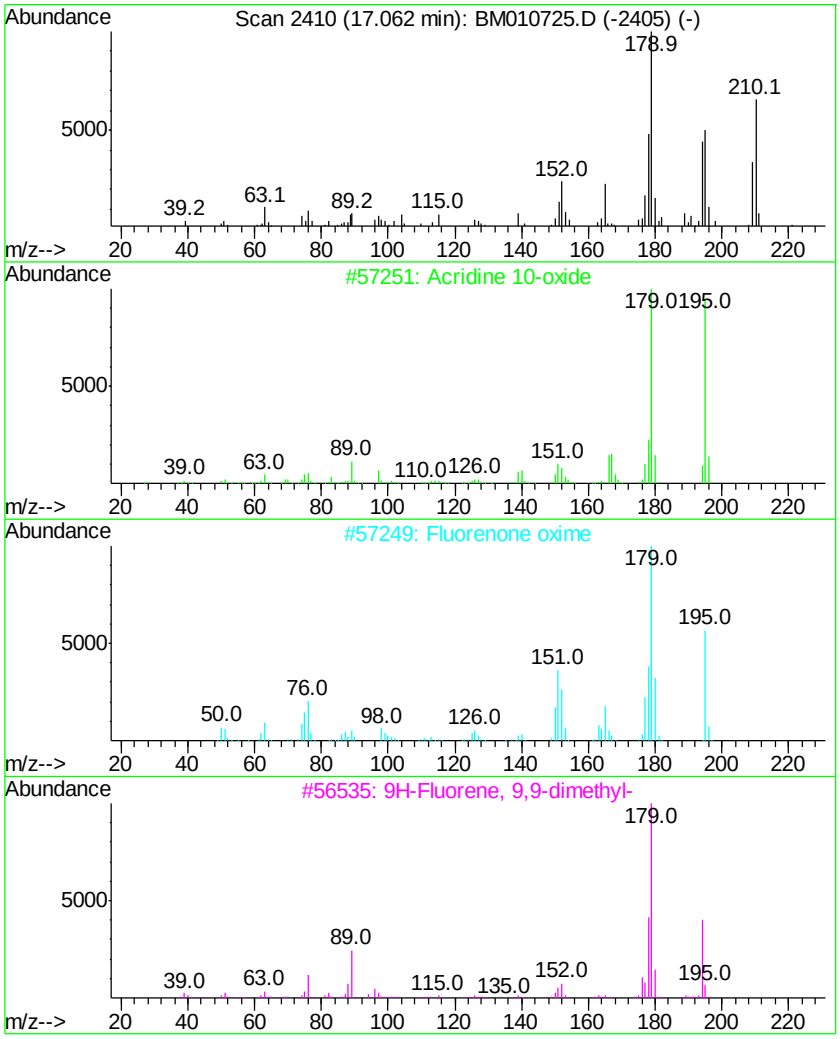
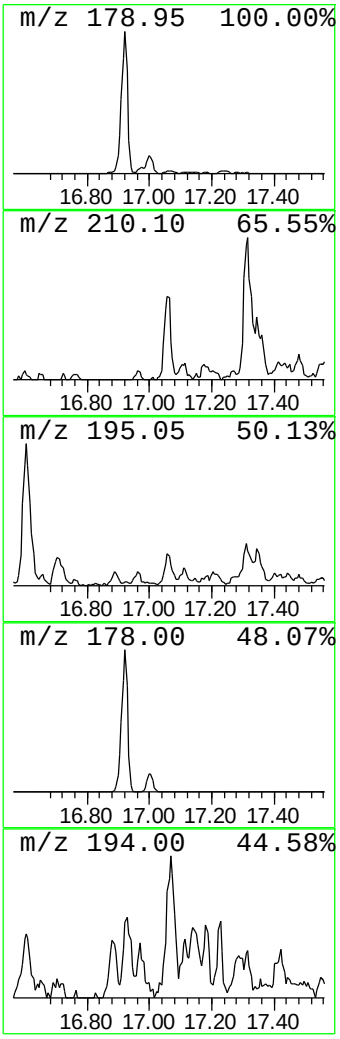
Peak Number 27 Acridine 10-oxide Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.06 | 2.09 ng/ul | 185363 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acridine 10-oxide | 195 | C13H9NO | 010399-73-2 | 50 |
| 2 | Fluorenone oxime | 195 | C13H9NO | 002157-52-0 | 49 |
| 3 | 9H-Fluorene, 9,9-dimethyl- | 194 | C15H14 | 004569-45-3 | 46 |
| 4 | Phenanthridine, 5-oxide | 195 | C13H9NO | 014548-01-7 | 41 |
| 5 | 5-Acetoacenaphthylene | 194 | C14H10O | 068399-52-0 | 41 |



Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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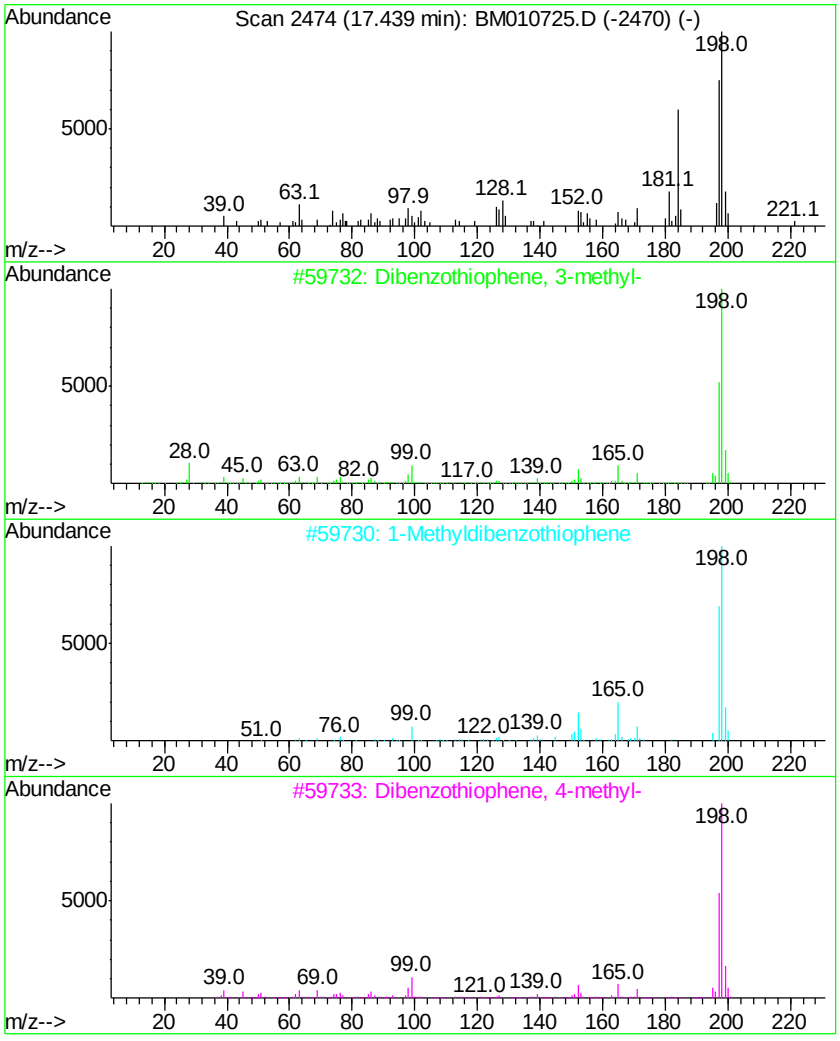
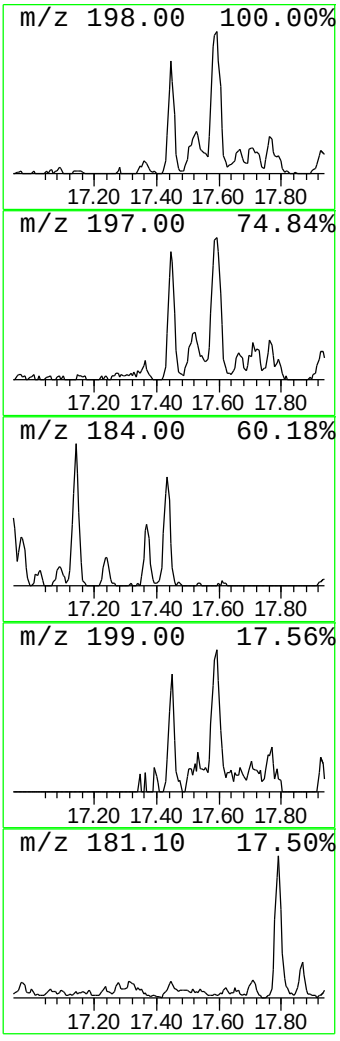
Peak Number 28 Dibenzothiophene, 3-methyl- Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.44 | 2.54 ng/ul | 224489 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3 | 83 |
| 2 | 1-Methyldibenzothiophene | 198 | C13H10S | 031317-07-4 | 81 |
| 3 | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5 | 74 |
| 4 | 1,2,3,4-Tetrahydrophenanthren-9-ol | 198 | C14H14O | 019817-12-0 | 64 |
| 5 | Pyridine, 4-(4-dimethylaminophen... | 198 | C13H14N2 | 001137-80-0 | 64 |



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

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

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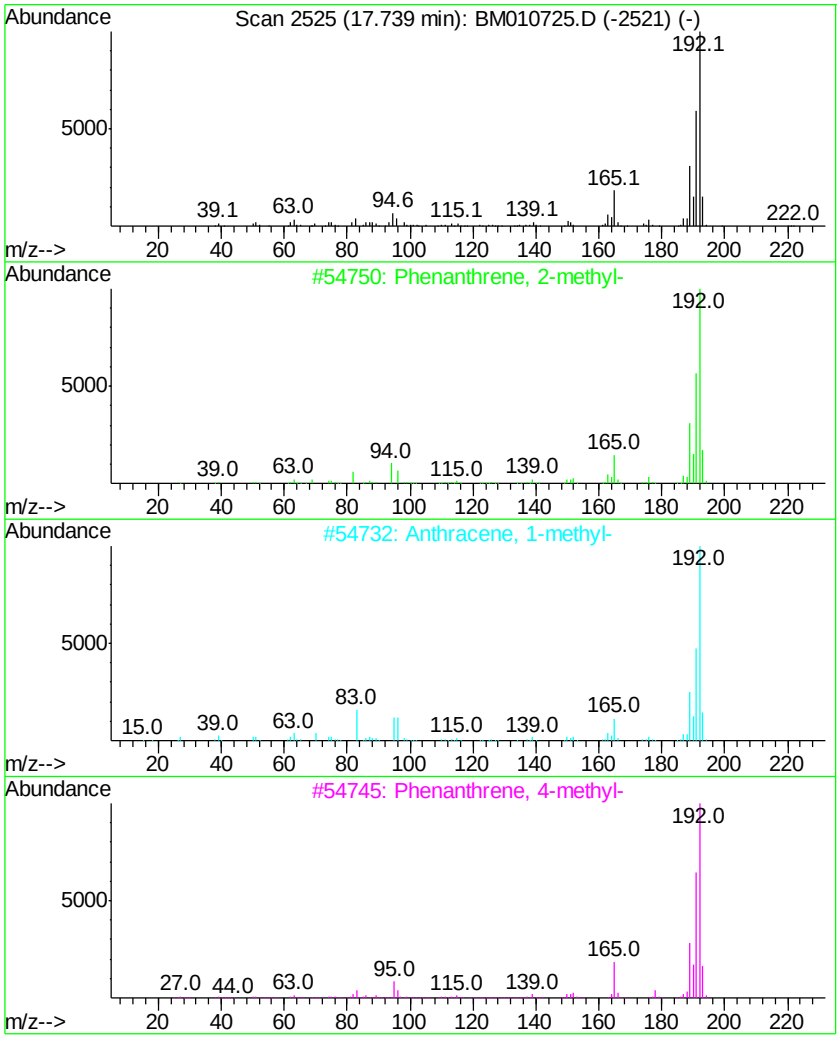
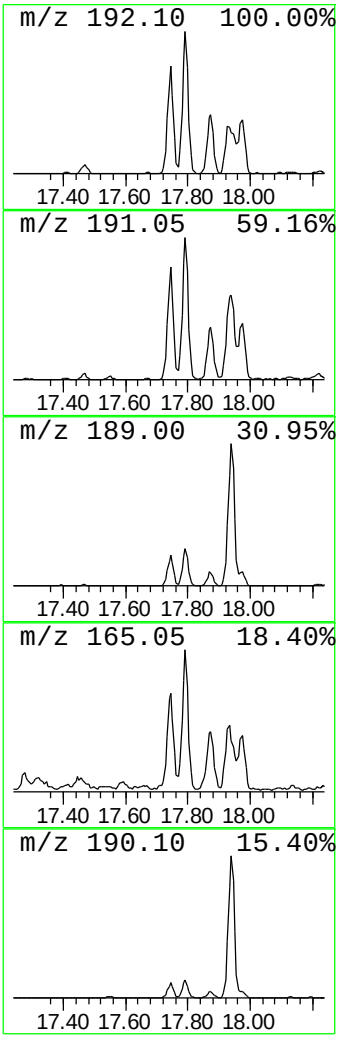
Peak Number 29 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.74 | 10.68 ng/ul | 945175 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 3 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 93 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.M
Quant Title : SVOA CALIBRATION

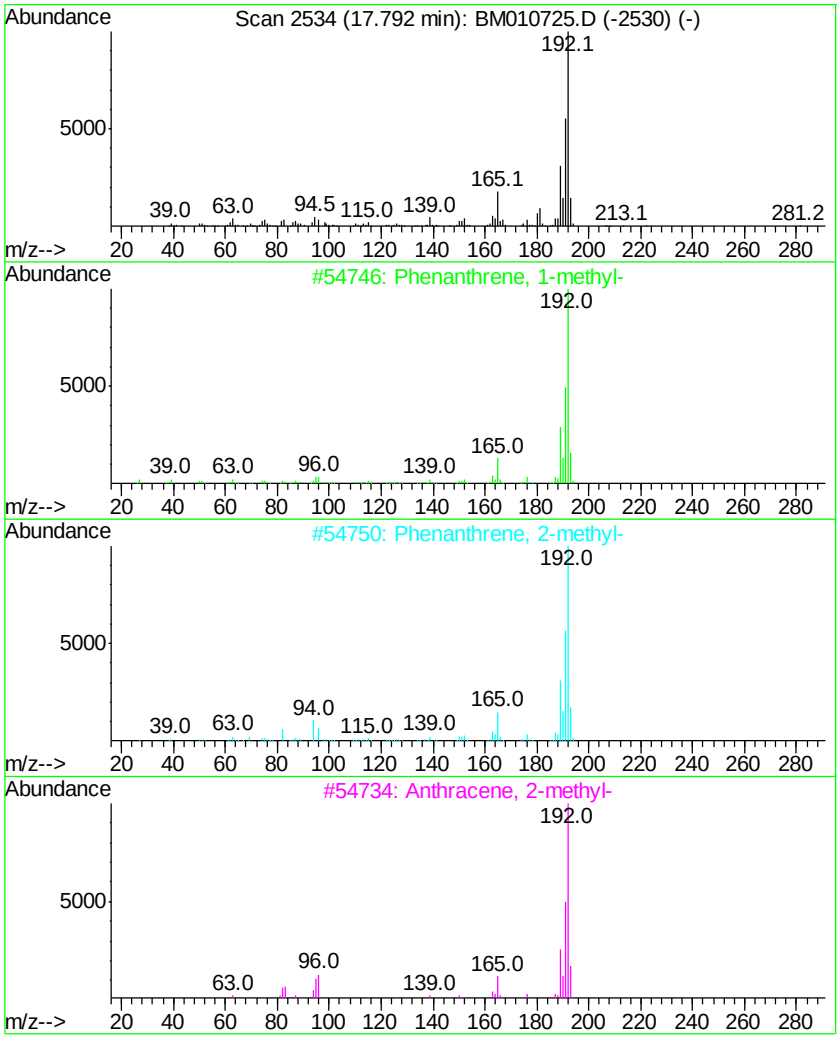
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

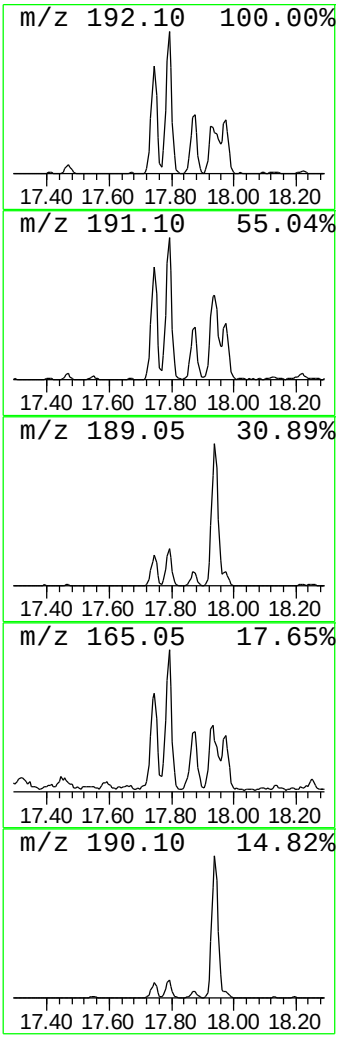
**********

Peak Number 30 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.79 | 16.40 ng/ul | 1451280 | Phenanthrene-d10 | 16.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM062317\
Data File : BM010725.D
Acq On : 24 Jun 2017 12:14
Operator : SJ/JU
Sample : I3653-06ME 10X
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** F5E19ME

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM062017.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 |
| (1R)-2,6,6-Trimet... | 6.17 | 7.1 | ng/ul | 199155 | 1 | 7.46 | 562546 | 20.0 |
| Indane | 7.83 | 13.2 | ng/ul | 371625 | 1 | 7.46 | 562546 | 20.0 |
| 1-Propyne, 3-phenyl- | 7.99 | 20.8 | ng/ul | 585087 | 1 | 7.46 | 562546 | 20.0 |
| Benzene, 2-etheny... | 9.63 | 5.6 | ng/ul | 257702 | 2 | 10.23 | 915319 | 20.0 |
| Naphthalene, 1-me... | 12.12 | 52.1 | ng/ul | 2386760 | 2 | 10.23 | 915319 | 20.0 |
| Naphthalene, 1-et... | 13.13 | 5.3 | ng/ul | 449508 | 3 | 14.11 | 1705980 | 20.0 |
| Naphthalene, 2,7-... | 13.26 | 7.5 | ng/ul | 642699 | 3 | 14.11 | 1705980 | 20.0 |
| Naphthalene, 1,6-... | 13.48 | 6.0 | ng/ul | 509424 | 3 | 14.11 | 1705980 | 20.0 |
| Naphthalene, 1,4-... | 13.66 | 4.4 | ng/ul | 376760 | 3 | 14.11 | 1705980 | 20.0 |
| 1-Naphthalenecarb... | 14.25 | 2.5 | ng/ul | 209412 | 3 | 14.11 | 1705980 | 20.0 |
| 1-Isopropenylnaph... | 14.43 | 2.9 | ng/ul | 248730 | 3 | 14.11 | 1705980 | 20.0 |
| Naphthalene, 1,6,... | 14.60 | 2.1 | ng/ul | 181023 | 3 | 14.11 | 1705980 | 20.0 |
| Naphthalene, 1,4,... | 14.74 | 2.3 | ng/ul | 191516 | 3 | 14.11 | 1705980 | 20.0 |
| 1,1'-Biphenyl, 2-... | 15.33 | 5.8 | ng/ul | 496443 | 3 | 14.11 | 1705980 | 20.0 |
| 1,1-Diphenyl-2-pr... | 15.42 | 2.5 | ng/ul | 217431 | 3 | 14.11 | 1705980 | 20.0 |
| Dibenzofuran, 4-m... | 15.46 | 8.5 | ng/ul | 722962 | 3 | 14.11 | 1705980 | 20.0 |
| 6H-Dibenzo[b,d]-p... | 15.61 | 12.5 | ng/ul | 1106900 | 4 | 16.87 | 1769780 | 20.0 |
| 9,9-Dimethyl-9-si... | 15.84 | 2.1 | ng/ul | 187936 | 4 | 16.87 | 1769780 | 20.0 |
| Anthracene, 9,10-... | 15.96 | 3.1 | ng/ul | 278684 | 4 | 16.87 | 1769780 | 20.0 |
| 9H-Fluorene, 2-me... | 16.17 | 8.7 | ng/ul | 768237 | 4 | 16.87 | 1769780 | 20.0 |
| 9H-Fluorene, 1-me... | 16.22 | 2.0 | ng/ul | 177165 | 4 | 16.87 | 1769780 | 20.0 |
| Xanthene, 9,9-dim... | 16.44 | 2.1 | ng/ul | 185445 | 4 | 16.87 | 1769780 | 20.0 |
| Phenol, 4-(2-phen... | 16.60 | 4.2 | ng/ul | 375553 | 4 | 16.87 | 1769780 | 20.0 |
| Naphtho[2,1-b]thi... | 16.69 | 13.4 | ng/ul | 1181550 | 4 | 16.87 | 1769780 | 20.0 |
| Acridine 10-oxide | 17.06 | 2.1 | ng/ul | 185363 | 4 | 16.87 | 1769780 | 20.0 |
| Dibenzothiophene,... | 17.44 | 2.5 | ng/ul | 224489 | 4 | 16.87 | 1769780 | 20.0 |
| Phenanthrene, 2-m... | 17.74 | 10.7 | ng/ul | 945175 | 4 | 16.87 | 1769780 | 20.0 |
| Phenanthrene, 1-m... | 17.79 | 16.4 | ng/ul | 1451280 | 4 | 16.87 | 1769780 | 20.0 |