

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\  
 Data File : BG020430.D  
 Acq On : 23 Dec 2015 6:07  
 Operator : UM/SJ  
 Sample : G4768-04DL 25X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N28DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG121415.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      | 6.440    | 608        | 613      | 615       | rBV2  | 580         | 774        | 0.15%        | 0.026%     |
| 2      | 6.493    | 619        | 622      | 624       | rVB   | 496         | 623        | 0.12%        | 0.021%     |
| 3      | 6.757    | 664        | 667      | 670       | rBV   | 574         | 651        | 0.13%        | 0.022%     |
| 4      | 7.403    | 774        | 777      | 782       | rVB2  | 2229        | 2884       | 0.58%        | 0.096%     |
| 5      | 7.615    | 810        | 813      | 817       | rBV   | 1661        | 2291       | 0.46%        | 0.076%     |
| 6      | 7.721    | 828        | 831      | 835       | rBV   | 510         | 667        | 0.13%        | 0.022%     |
| 7      | 8.085    | 886        | 893      | 903       | rBB   | 63355       | 107000     | 21.41%       | 3.554%     |
| 8      | 8.461    | 953        | 957      | 961       | rVB   | 1578        | 2158       | 0.43%        | 0.072%     |
| 9      | 8.625    | 980        | 985      | 992       | rBB2  | 5517        | 9048       | 1.81%        | 0.301%     |
| 10     | 8.796    | 1010       | 1014     | 1018      | rBB2  | 1361        | 1804       | 0.36%        | 0.060%     |
| 11     | 9.254    | 1088       | 1092     | 1098      | rBB2  | 2036        | 3558       | 0.71%        | 0.118%     |
| 12     | 9.983    | 1212       | 1216     | 1219      | rBB   | 1076        | 1358       | 0.27%        | 0.045%     |
| 13     | 10.529   | 1304       | 1309     | 1313      | rBB3  | 2475        | 3860       | 0.77%        | 0.128%     |
| 14     | 10.899   | 1364       | 1372     | 1376      | rBV   | 94447       | 169299     | 33.88%       | 5.623%     |
| 15     | 10.952   | 1376       | 1381     | 1392      | rVV   | 136222      | 240617     | 48.16%       | 7.992%     |
| 16     | 11.070   | 1395       | 1401     | 1408      | rBB   | 3799        | 6966       | 1.39%        | 0.231%     |
| 17     | 12.450   | 1633       | 1636     | 1639      | rBB   | 675         | 697        | 0.14%        | 0.023%     |
| 18     | 12.550   | 1646       | 1653     | 1660      | rBB   | 27164       | 43730      | 8.75%        | 1.452%     |
| 19     | 12.668   | 1669       | 1673     | 1676      | rBB   | 687         | 899        | 0.18%        | 0.030%     |
| 20     | 12.768   | 1682       | 1690     | 1697      | rBB   | 19317       | 30155      | 6.04%        | 1.002%     |
| 21     | 13.549   | 1818       | 1823     | 1829      | rVB   | 8824        | 12666      | 2.53%        | 0.421%     |
| 22     | 13.743   | 1853       | 1856     | 1863      | rBB   | 1091        | 1419       | 0.28%        | 0.047%     |
| 23     | 13.872   | 1876       | 1878     | 1879      | rBV   | 910         | 732        | 0.15%        | 0.024%     |
| 24     | 14.031   | 1901       | 1905     | 1911      | rBB   | 2362        | 4070       | 0.81%        | 0.135%     |
| 25     | 14.113   | 1911       | 1919     | 1924      | rBB   | 8453        | 13341      | 2.67%        | 0.443%     |
| 26     | 14.266   | 1943       | 1945     | 1946      | rBV   | 934         | 721        | 0.14%        | 0.024%     |
| 27     | 14.413   | 1965       | 1970     | 1979      | rVB2  | 9186        | 18683      | 3.74%        | 0.621%     |
| 28     | 14.718   | 2013       | 2022     | 2028      | rBV2  | 181022      | 285332     | 57.11%       | 9.477%     |
| 29     | 14.777   | 2028       | 2032     | 2039      | rVV   | 70516       | 108154     | 21.65%       | 3.592%     |
| 30     | 14.848   | 2039       | 2044     | 2049      | rVB   | 11141       | 14948      | 2.99%        | 0.496%     |
| 31     | 14.983   | 2064       | 2067     | 2071      | rBB   | 780         | 888        | 0.18%        | 0.029%     |
| 32     | 15.112   | 2084       | 2089     | 2098      | rBV2  | 29142       | 48185      | 9.64%        | 1.600%     |
| 33     | 15.705   | 2185       | 2190     | 2194      | rBV   | 14048       | 20903      | 4.18%        | 0.694%     |
| 34     | 15.764   | 2194       | 2200     | 2206      | rVB   | 38497       | 57234      | 11.45%       | 1.901%     |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |        |        |         |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 15.829 | 2206 | 2211 | 2212 | rBV2 | 651    | 708    | 0.14%  | 0.024%  |
| 36 | 15.852 | 2212 | 2215 | 2218 | rVB  | 865    | 993    | 0.20%  | 0.033%  |
| 37 | 15.882 | 2218 | 2220 | 2224 | rBV2 | 1531   | 2157   | 0.43%  | 0.072%  |
| 38 | 15.923 | 2224 | 2227 | 2232 | rVB2 | 2142   | 2777   | 0.56%  | 0.092%  |
| 39 | 16.011 | 2239 | 2242 | 2246 | rBV  | 627    | 1056   | 0.21%  | 0.035%  |
| 40 | 16.052 | 2246 | 2249 | 2253 | rVB3 | 1910   | 2783   | 0.56%  | 0.092%  |
| 41 | 16.199 | 2269 | 2274 | 2277 | rBV2 | 2031   | 3006   | 0.60%  | 0.100%  |
| 42 | 16.557 | 2329 | 2335 | 2337 | rBV3 | 1668   | 2246   | 0.45%  | 0.075%  |
| 43 | 16.769 | 2367 | 2371 | 2373 | rVB  | 814    | 1001   | 0.20%  | 0.033%  |
| 44 | 17.116 | 2427 | 2430 | 2432 | rBV  | 918    | 823    | 0.16%  | 0.027%  |
| 45 | 17.239 | 2449 | 2451 | 2453 | rBV  | 687    | 791    | 0.16%  | 0.026%  |
| 46 | 17.280 | 2455 | 2458 | 2465 | rVB2 | 3942   | 5297   | 1.06%  | 0.176%  |
| 47 | 17.462 | 2482 | 2489 | 2493 | rBV  | 253841 | 379819 | 76.02% | 12.615% |
| 48 | 17.503 | 2493 | 2496 | 2501 | rVV  | 75048  | 105130 | 21.04% | 3.492%  |
| 49 | 17.562 | 2501 | 2506 | 2510 | rVV2 | 17904  | 27628  | 5.53%  | 0.918%  |
| 50 | 17.591 | 2510 | 2511 | 2517 | rVB  | 3527   | 3449   | 0.69%  | 0.115%  |
| 51 | 17.656 | 2517 | 2522 | 2524 | rBV2 | 953    | 1156   | 0.23%  | 0.038%  |
| 52 | 17.862 | 2552 | 2557 | 2567 | rBV  | 37772  | 56593  | 11.33% | 1.880%  |
| 53 | 18.020 | 2581 | 2584 | 2585 | rBV  | 925    | 920    | 0.18%  | 0.031%  |
| 54 | 18.338 | 2635 | 2638 | 2640 | rBV  | 1298   | 1471   | 0.29%  | 0.049%  |
| 55 | 18.385 | 2640 | 2646 | 2653 | rVB4 | 4785   | 8234   | 1.65%  | 0.273%  |
| 56 | 18.461 | 2653 | 2659 | 2661 | rBV2 | 1376   | 2056   | 0.41%  | 0.068%  |
| 57 | 18.537 | 2667 | 2672 | 2674 | rBV2 | 4966   | 6596   | 1.32%  | 0.219%  |
| 58 | 18.637 | 2684 | 2689 | 2692 | rBV  | 1991   | 2826   | 0.57%  | 0.094%  |
| 59 | 18.673 | 2692 | 2695 | 2699 | rVV2 | 2021   | 2770   | 0.55%  | 0.092%  |
| 60 | 18.720 | 2699 | 2703 | 2706 | rVB  | 757    | 719    | 0.14%  | 0.024%  |
| 61 | 18.749 | 2706 | 2708 | 2709 | rBV  | 1023   | 794    | 0.16%  | 0.026%  |
| 62 | 18.767 | 2709 | 2711 | 2716 | rVV  | 1799   | 2375   | 0.48%  | 0.079%  |
| 63 | 18.831 | 2719 | 2722 | 2725 | rBV2 | 697    | 779    | 0.16%  | 0.026%  |
| 64 | 18.866 | 2725 | 2728 | 2731 | rVB2 | 855    | 953    | 0.19%  | 0.032%  |
| 65 | 18.978 | 2745 | 2747 | 2750 | rVB  | 691    | 763    | 0.15%  | 0.025%  |
| 66 | 19.242 | 2790 | 2792 | 2798 | rBV3 | 747    | 743    | 0.15%  | 0.025%  |
| 67 | 19.507 | 2832 | 2837 | 2843 | rVB  | 15711  | 21758  | 4.35%  | 0.723%  |
| 68 | 19.554 | 2843 | 2845 | 2846 | rBV2 | 1116   | 800    | 0.16%  | 0.027%  |
| 69 | 19.842 | 2888 | 2894 | 2898 | rBV2 | 21734  | 35805  | 7.17%  | 1.189%  |
| 70 | 19.948 | 2910 | 2912 | 2915 | rVB3 | 1461   | 1255   | 0.25%  | 0.042%  |
| 71 | 20.047 | 2926 | 2929 | 2930 | rBV2 | 1572   | 1627   | 0.33%  | 0.054%  |

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Peak Location: TOP

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Peak separation: 5

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Title : SVOA CALIBRATION

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|----|--------|------|------|------|------|--------|--------|---------|---------|
| 72 | 20.353 | 2978 | 2981 | 2988 | rVB4 | 5952   | 8523   | 1.71%   | 0.283%  |
| 73 | 20.553 | 3012 | 3015 | 3019 | rBV2 | 5328   | 5220   | 1.04%   | 0.173%  |
| 74 | 20.846 | 3062 | 3065 | 3069 | rVB5 | 6618   | 7171   | 1.44%   | 0.238%  |
| 75 | 21.358 | 3148 | 3152 | 3157 | rVB2 | 59847  | 75412  | 15.09%  | 2.505%  |
| 76 | 21.734 | 3210 | 3216 | 3225 | rVB  | 315234 | 499654 | 100.00% | 16.595% |
| 77 | 22.515 | 3347 | 3349 | 3354 | rVB4 | 7316   | 9694   | 1.94%   | 0.322%  |
| 78 | 23.214 | 3463 | 3468 | 3473 | rBV5 | 7570   | 15344  | 3.07%   | 0.510%  |
| 79 | 25.006 | 3762 | 3773 | 3784 | rBV2 | 166909 | 482914 | 96.65%  | 16.039% |

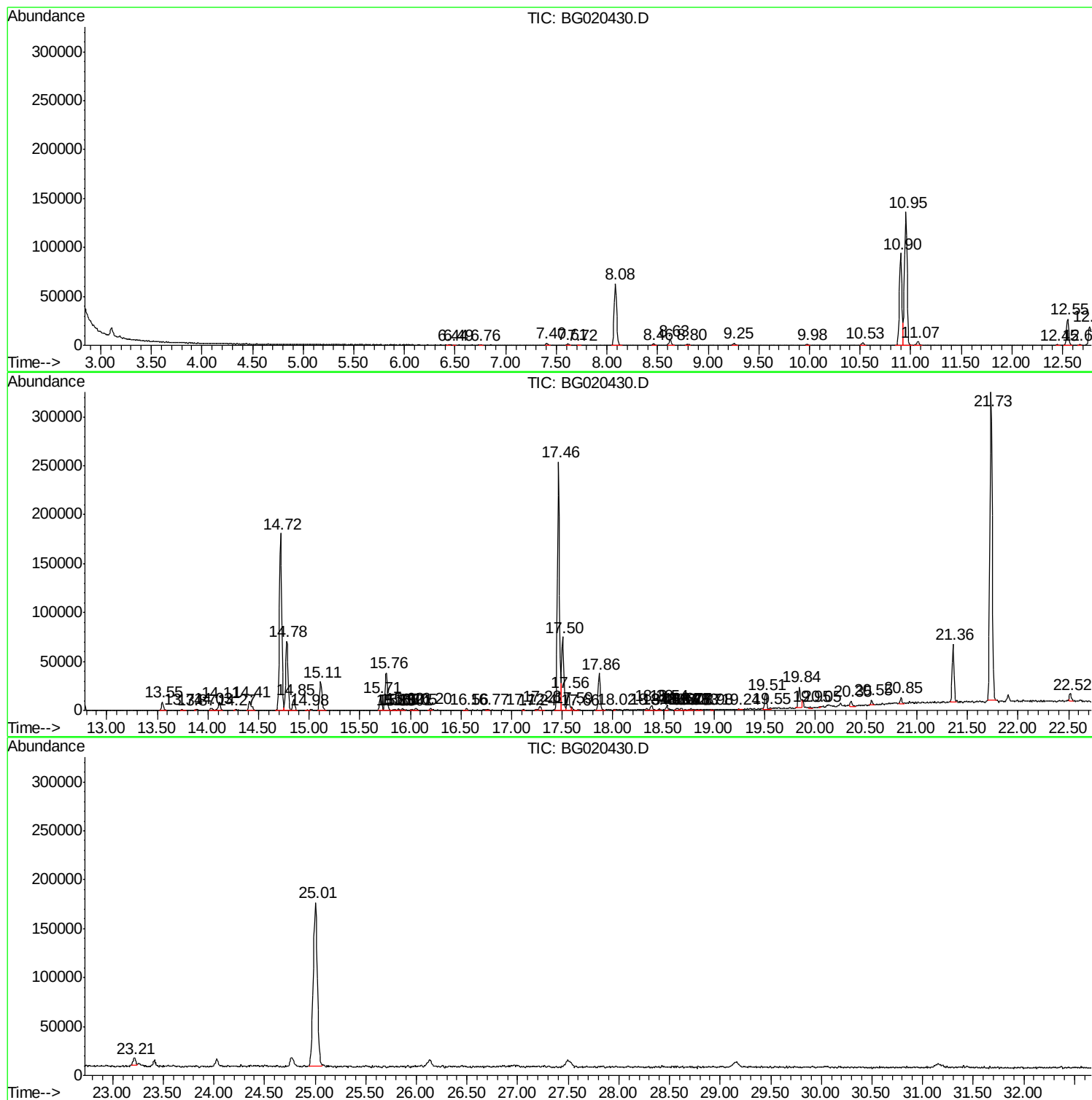
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION

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



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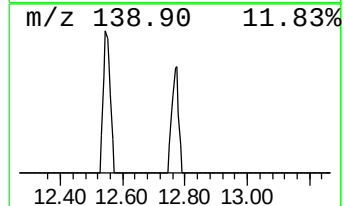
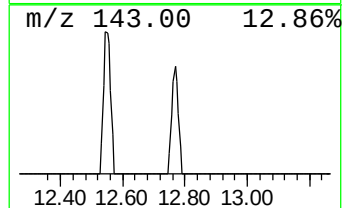
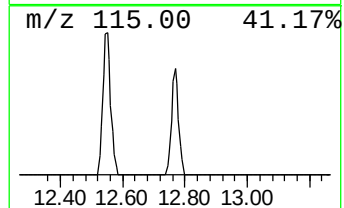
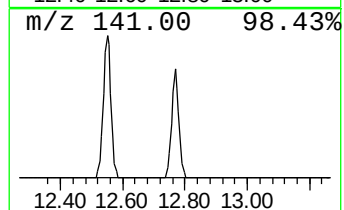
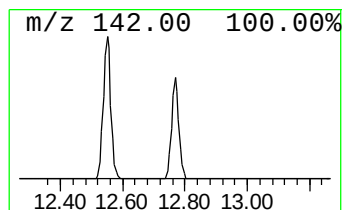
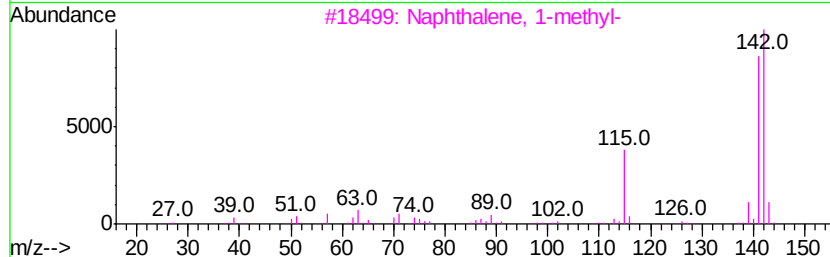
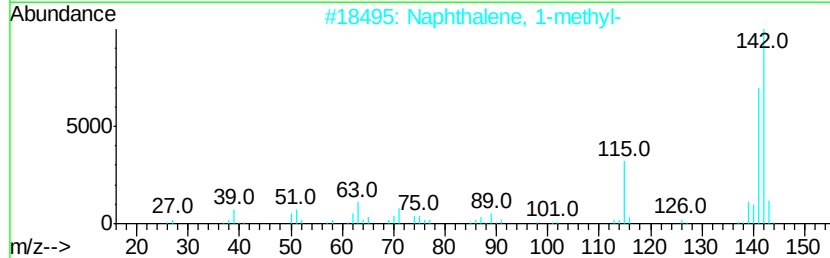
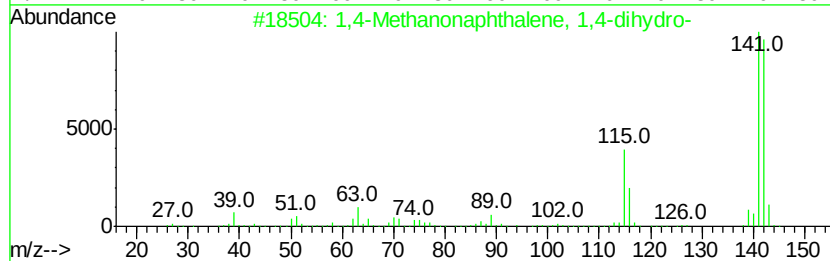
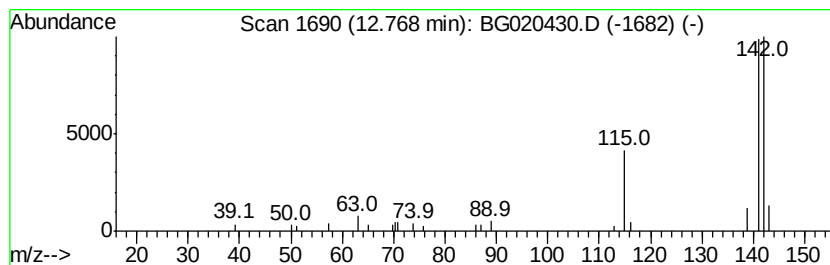
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 1,4-Methanonaphthalene, 1,4... Concentration Rank 1

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 12.77 | 3.56 ng/ul | 30155 | Naphthalene-d8   | 10.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 2    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 91   |
| 3    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 91   |
| 4    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 91   |
| 5    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 91   |



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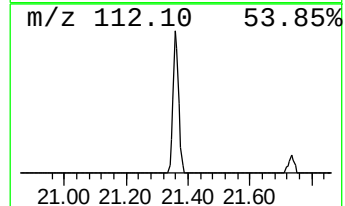
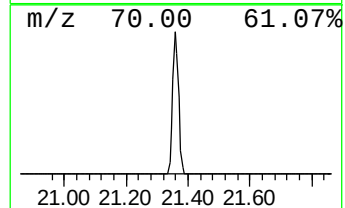
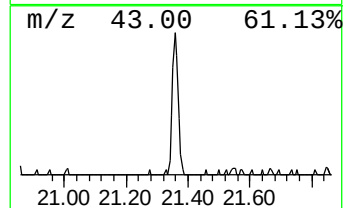
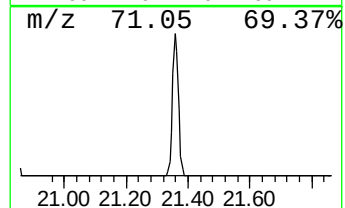
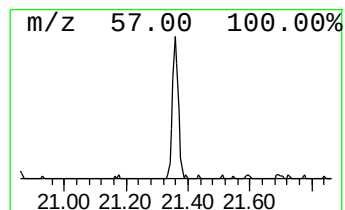
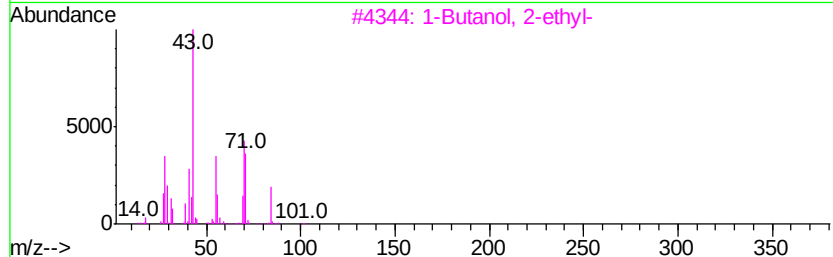
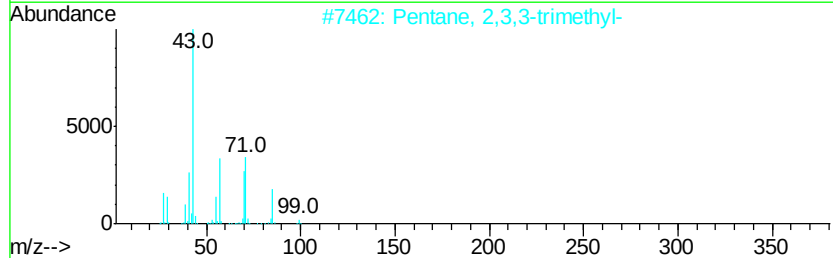
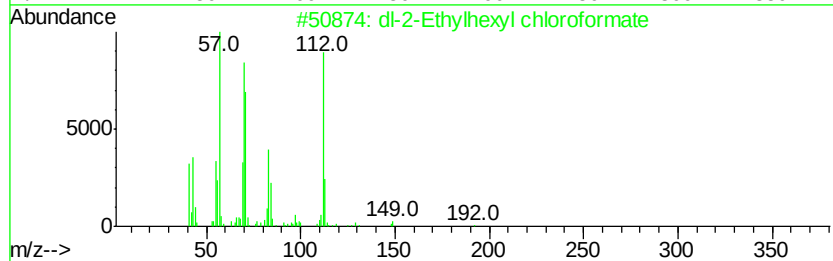
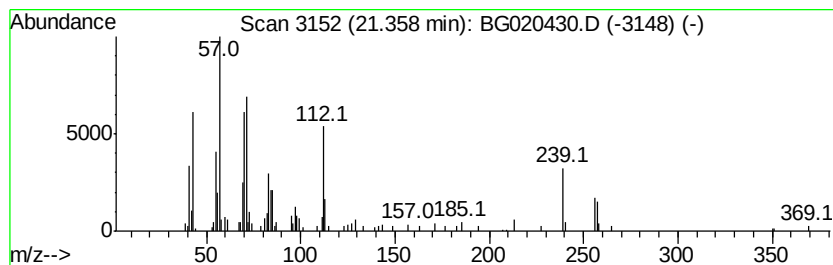
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown-01 Concentration Rank 2

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 21.36 | 3.02 ng/ul | 75412 | Chrysene-d12     | 21.73 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | dl-2-Ethylhexyl chloroformate       | 192 | C9H17ClO2 | 024468-13-1 | 47   |
| 2    |    | Pentane, 2,3,3-trimethyl-           | 114 | C8H18     | 000560-21-4 | 35   |
| 3    |    | 1-Butanol, 2-ethyl-                 | 102 | C6H14O    | 000097-95-0 | 35   |
| 4    |    | Decane, 2,6,7-trimethyl-            | 184 | C13H28    | 062108-25-2 | 35   |
| 5    |    | 1-Piperidinyloxy, 4-amino-2,2,6,... | 171 | C9H19N2O  | 014691-88-4 | 30   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | ---Internal Standard--- |       |        |      |
|----------------------|-------|---------|-------|----------|-------------------------|-------|--------|------|
|                      |       |         |       |          | #                       | RT    | Resp   | Conc |
| 1,4-Methanonaphth... | 12.77 | 3.6     | ng/ul | 30155    | 2                       | 10.90 | 169299 | 20.0 |
| unknown-01           | 21.36 | 3.0     | ng/ul | 75412    | 5                       | 21.73 | 499654 | 20.0 |