

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
 Data File : BM021026.D  
 Acq On : 18 Jun 2019 23:46  
 Operator : HP/JU  
 Sample : K3332-03  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4228

## 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.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      | 3.034    | 4          | 8        | 25        | rVB   | 853956      | 1162065    | 18.24%       | 1.435%     |
| 2      | 3.299    | 50         | 53       | 62        | rVB   | 38823       | 60323      | 0.95%        | 0.075%     |
| 3      | 4.916    | 325        | 328      | 332       | rVB2  | 13694       | 16621      | 0.26%        | 0.021%     |
| 4      | 6.951    | 667        | 674      | 688       | rVB   | 975927      | 1530336    | 24.02%       | 1.890%     |
| 5      | 7.128    | 697        | 704      | 715       | rBV   | 661229      | 1027312    | 16.13%       | 1.269%     |
| 6      | 7.316    | 730        | 736      | 746       | rBV   | 928791      | 1481033    | 23.25%       | 1.829%     |
| 7      | 7.787    | 810        | 816      | 823       | rBV   | 900471      | 1385924    | 21.76%       | 1.712%     |
| 8      | 8.116    | 867        | 872      | 878       | rVB7  | 15968       | 24589      | 0.39%        | 0.030%     |
| 9      | 8.486    | 927        | 935      | 945       | rBV   | 1295868     | 2044160    | 32.09%       | 2.525%     |
| 10     | 8.610    | 952        | 956      | 962       | rVB3  | 9018        | 16334      | 0.26%        | 0.020%     |
| 11     | 8.945    | 1006       | 1013     | 1019      | rBV   | 848837      | 1426038    | 22.39%       | 1.761%     |
| 12     | 8.992    | 1019       | 1021     | 1027      | rVV   | 47684       | 64007      | 1.00%        | 0.079%     |
| 13     | 9.663    | 1128       | 1135     | 1150      | rBV   | 744809      | 1225184    | 19.23%       | 1.513%     |
| 14     | 10.198   | 1218       | 1226     | 1239      | rBV   | 1352957     | 2308423    | 36.24%       | 2.851%     |
| 15     | 10.575   | 1282       | 1290     | 1299      | rBV   | 1299466     | 2184395    | 34.29%       | 2.698%     |
| 16     | 10.722   | 1308       | 1315     | 1324      | rBV   | 696024      | 1292601    | 20.29%       | 1.597%     |
| 17     | 12.110   | 1543       | 1551     | 1557      | rBV   | 68096       | 119386     | 1.87%        | 0.147%     |
| 18     | 12.169   | 1557       | 1561     | 1566      | rVB2  | 20160       | 31206      | 0.49%        | 0.039%     |
| 19     | 12.763   | 1655       | 1662     | 1668      | rBV6  | 33653       | 58477      | 0.92%        | 0.072%     |
| 20     | 13.027   | 1703       | 1707     | 1714      | rBV7  | 13400       | 24563      | 0.39%        | 0.030%     |
| 21     | 13.310   | 1747       | 1755     | 1759      | rBV6  | 12257       | 21786      | 0.34%        | 0.027%     |
| 22     | 13.368   | 1759       | 1765     | 1773      | rVB4  | 76209       | 128197     | 2.01%        | 0.158%     |
| 23     | 13.604   | 1797       | 1805     | 1810      | rBV4  | 33536       | 64304      | 1.01%        | 0.079%     |
| 24     | 13.763   | 1822       | 1832     | 1838      | rBV4  | 73228       | 154177     | 2.42%        | 0.190%     |
| 25     | 13.839   | 1838       | 1845     | 1849      | rVV   | 2658829     | 3637260    | 57.10%       | 4.493%     |
| 26     | 13.886   | 1849       | 1853     | 1857      | rVV   | 682297      | 965414     | 15.16%       | 1.192%     |
| 27     | 13.939   | 1857       | 1862     | 1870      | rVB3  | 91673       | 183617     | 2.88%        | 0.227%     |
| 28     | 14.121   | 1886       | 1893     | 1897      | rVV   | 2850716     | 4267599    | 66.99%       | 5.271%     |
| 29     | 14.157   | 1897       | 1899     | 1904      | rVV2  | 193473      | 234018     | 3.67%        | 0.289%     |
| 30     | 14.210   | 1904       | 1908     | 1909      | rVV2  | 28588       | 38115      | 0.60%        | 0.047%     |
| 31     | 14.233   | 1909       | 1912     | 1918      | rVV3  | 39507       | 60571      | 0.95%        | 0.075%     |
| 32     | 14.286   | 1918       | 1921     | 1925      | rVV4  | 21104       | 30790      | 0.48%        | 0.038%     |
| 33     | 14.351   | 1929       | 1932     | 1938      | rVV5  | 13108       | 25306      | 0.40%        | 0.031%     |
| 34     | 14.427   | 1938       | 1945     | 1952      | rVV2  | 2104186     | 3351089    | 52.61%       | 4.139%     |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 14.627 | 1970 | 1979 | 1983 | rBV  | 762796  | 1167108 | 18.32% | 1.442% |
| 36 | 14.674 | 1983 | 1987 | 1996 | rVV  | 538764  | 787605  | 12.36% | 0.973% |
| 37 | 14.763 | 1999 | 2002 | 2003 | rVV3 | 10483   | 12983   | 0.20%  | 0.016% |
| 38 | 14.792 | 2004 | 2007 | 2012 | rVV5 | 27405   | 45636   | 0.72%  | 0.056% |
| 39 | 14.839 | 2012 | 2015 | 2022 | rVV6 | 12042   | 27201   | 0.43%  | 0.034% |
| 40 | 15.121 | 2057 | 2063 | 2069 | rVB5 | 22573   | 34665   | 0.54%  | 0.043% |
| 41 | 15.215 | 2076 | 2079 | 2083 | rBV  | 22894   | 29351   | 0.46%  | 0.036% |
| 42 | 15.421 | 2107 | 2114 | 2120 | rBV  | 3895501 | 5496904 | 86.29% | 6.789% |
| 43 | 15.462 | 2120 | 2121 | 2126 | rVV6 | 10864   | 14272   | 0.22%  | 0.018% |
| 44 | 15.545 | 2129 | 2135 | 2145 | rBV  | 802392  | 1126417 | 17.68% | 1.391% |
| 45 | 15.662 | 2150 | 2155 | 2160 | rVB  | 50384   | 76553   | 1.20%  | 0.095% |
| 46 | 15.927 | 2196 | 2200 | 2203 | rBV6 | 12128   | 19780   | 0.31%  | 0.024% |
| 47 | 15.962 | 2203 | 2206 | 2211 | rVV5 | 15748   | 23157   | 0.36%  | 0.029% |
| 48 | 16.127 | 2231 | 2234 | 2243 | rVV7 | 16906   | 30998   | 0.49%  | 0.038% |
| 49 | 16.315 | 2262 | 2266 | 2269 | rBV5 | 7405    | 13250   | 0.21%  | 0.016% |
| 50 | 16.386 | 2273 | 2278 | 2282 | rBV5 | 15247   | 20782   | 0.33%  | 0.026% |
| 51 | 16.568 | 2307 | 2309 | 2316 | rVB4 | 10237   | 15130   | 0.24%  | 0.019% |
| 52 | 16.815 | 2348 | 2351 | 2355 | rVV6 | 9211    | 13360   | 0.21%  | 0.017% |
| 53 | 16.868 | 2355 | 2360 | 2363 | rVV2 | 44525   | 55152   | 0.87%  | 0.068% |
| 54 | 16.962 | 2372 | 2376 | 2378 | rBV2 | 9716    | 14339   | 0.23%  | 0.018% |
| 55 | 16.992 | 2378 | 2381 | 2388 | rVB6 | 17046   | 26263   | 0.41%  | 0.032% |
| 56 | 17.062 | 2390 | 2393 | 2401 | rBV7 | 21932   | 43267   | 0.68%  | 0.053% |
| 57 | 17.174 | 2406 | 2412 | 2417 | rBV2 | 2804582 | 3941665 | 61.88% | 4.869% |
| 58 | 17.215 | 2417 | 2419 | 2422 | rVB  | 42524   | 42849   | 0.67%  | 0.053% |
| 59 | 17.268 | 2422 | 2428 | 2439 | rBV  | 3810851 | 5623157 | 88.27% | 6.945% |
| 60 | 17.551 | 2472 | 2476 | 2479 | rBV5 | 17937   | 23492   | 0.37%  | 0.029% |
| 61 | 17.651 | 2488 | 2493 | 2498 | rBV  | 375460  | 492844  | 7.74%  | 0.609% |
| 62 | 17.698 | 2498 | 2501 | 2507 | rVB8 | 18590   | 29306   | 0.46%  | 0.036% |
| 63 | 17.798 | 2514 | 2518 | 2521 | rBV4 | 21892   | 25782   | 0.40%  | 0.032% |
| 64 | 17.839 | 2521 | 2525 | 2531 | rVB4 | 18385   | 26469   | 0.42%  | 0.033% |
| 65 | 17.939 | 2539 | 2542 | 2545 | rBV4 | 20858   | 25446   | 0.40%  | 0.031% |
| 66 | 17.998 | 2548 | 2552 | 2558 | rBV  | 92989   | 141695  | 2.22%  | 0.175% |
| 67 | 18.062 | 2558 | 2563 | 2569 | rVV  | 643881  | 889152  | 13.96% | 1.098% |
| 68 | 18.115 | 2570 | 2572 | 2579 | rVB3 | 71760   | 130770  | 2.05%  | 0.162% |
| 69 | 18.203 | 2584 | 2587 | 2590 | rVV4 | 37641   | 53169   | 0.83%  | 0.066% |
| 70 | 18.262 | 2593 | 2597 | 2602 | rVB6 | 47748   | 79734   | 1.25%  | 0.098% |
| 71 | 18.351 | 2606 | 2612 | 2619 | rVV5 | 53360   | 118548  | 1.86%  | 0.146% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 18.556 | 2644 | 2647 | 2651 | rVB5 | 21318   | 28972   | 0.45%   | 0.036% |
| 73  | 18.786 | 2683 | 2686 | 2691 | rBV7 | 11057   | 18356   | 0.29%   | 0.023% |
| 74  | 18.927 | 2706 | 2710 | 2715 | rBV2 | 101769  | 140563  | 2.21%   | 0.174% |
| 75  | 18.986 | 2717 | 2720 | 2731 | rVB2 | 58651   | 91218   | 1.43%   | 0.113% |
| 76  | 19.198 | 2752 | 2756 | 2757 | rBV2 | 61158   | 68584   | 1.08%   | 0.085% |
| 77  | 19.227 | 2757 | 2761 | 2768 | rVB  | 163030  | 277088  | 4.35%   | 0.342% |
| 78  | 19.339 | 2776 | 2780 | 2789 | rBV2 | 159951  | 256747  | 4.03%   | 0.317% |
| 79  | 19.450 | 2796 | 2799 | 2802 | rBV2 | 33201   | 44156   | 0.69%   | 0.055% |
| 80  | 19.486 | 2802 | 2805 | 2812 | rVB8 | 29939   | 41850   | 0.66%   | 0.052% |
| 81  | 19.562 | 2812 | 2818 | 2830 | rBV  | 4427610 | 6370195 | 100.00% | 7.868% |
| 82  | 19.650 | 2830 | 2833 | 2838 | rVB3 | 87267   | 104795  | 1.65%   | 0.129% |
| 83  | 20.103 | 2907 | 2910 | 2911 | rBV2 | 47316   | 55677   | 0.87%   | 0.069% |
| 84  | 20.121 | 2911 | 2913 | 2917 | rVB  | 100434  | 93439   | 1.47%   | 0.115% |
| 85  | 20.597 | 2991 | 2994 | 2997 | rVB2 | 77902   | 89020   | 1.40%   | 0.110% |
| 86  | 20.762 | 3018 | 3022 | 3029 | rBV  | 493845  | 620890  | 9.75%   | 0.767% |
| 87  | 21.056 | 3068 | 3072 | 3078 | rBV  | 889192  | 1102786 | 17.31%  | 1.362% |
| 88  | 21.133 | 3083 | 3085 | 3089 | rVB  | 93882   | 95444   | 1.50%   | 0.118% |
| 89  | 21.350 | 3117 | 3122 | 3127 | rBV  | 3079064 | 3839945 | 60.28%  | 4.743% |
| 90  | 21.491 | 3143 | 3146 | 3151 | rBV  | 171329  | 214393  | 3.37%   | 0.265% |
| 91  | 21.727 | 3180 | 3186 | 3189 | rBV  | 204378  | 330476  | 5.19%   | 0.408% |
| 92  | 21.939 | 3218 | 3222 | 3223 | rBV  | 281912  | 347148  | 5.45%   | 0.429% |
| 93  | 22.403 | 3298 | 3301 | 3306 | rVB  | 284135  | 326841  | 5.13%   | 0.404% |
| 94  | 22.915 | 3384 | 3388 | 3393 | rBV2 | 435838  | 690641  | 10.84%  | 0.853% |
| 95  | 22.962 | 3394 | 3396 | 3406 | rVB2 | 265287  | 443120  | 6.96%   | 0.547% |
| 96  | 23.480 | 3478 | 3484 | 3498 | rVB  | 2774823 | 5572839 | 87.48%  | 6.883% |
| 97  | 23.627 | 3503 | 3509 | 3517 | rVB  | 1823729 | 3462187 | 54.35%  | 4.276% |
| 98  | 24.150 | 3594 | 3598 | 3607 | rVB2 | 393086  | 714987  | 11.22%  | 0.883% |
| 99  | 26.385 | 3972 | 3978 | 3990 | rVB2 | 505108  | 1356753 | 21.30%  | 1.676% |
| 100 | 28.032 | 4251 | 4258 | 4282 | rVB6 | 745416  | 2779473 | 43.63%  | 3.433% |

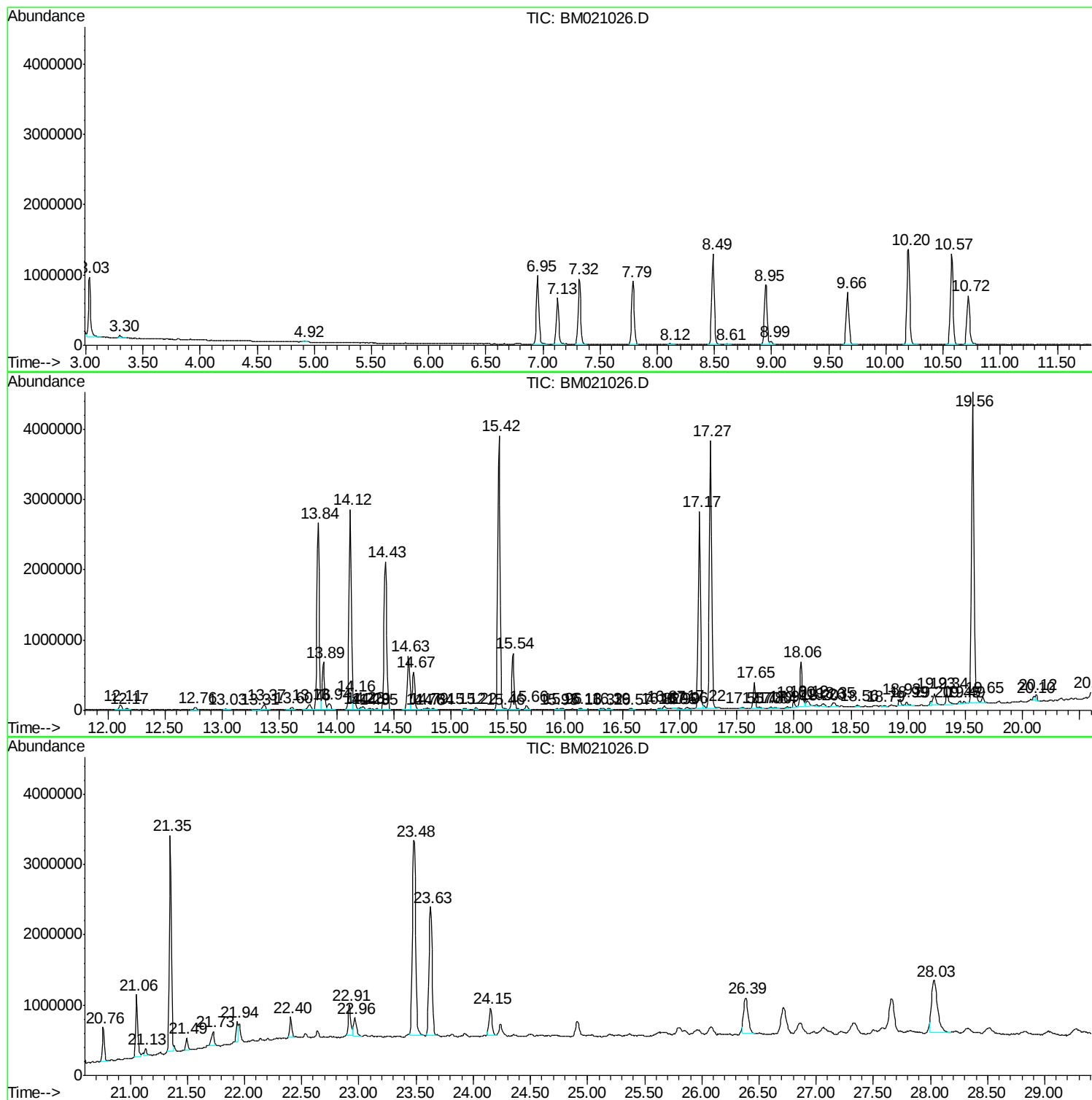
Sum of corrected areas: 80962054

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
Quant Title : SVOA CALIBRATION

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



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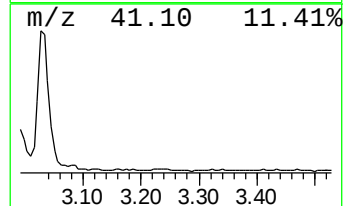
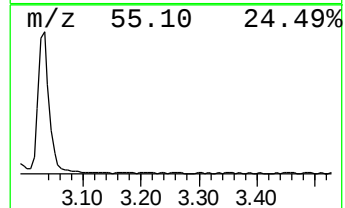
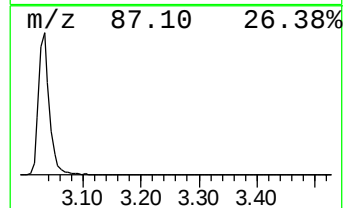
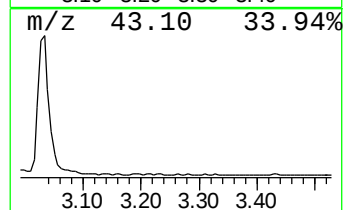
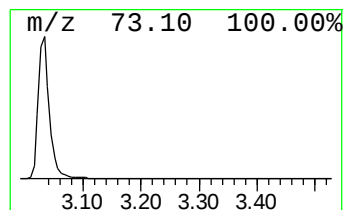
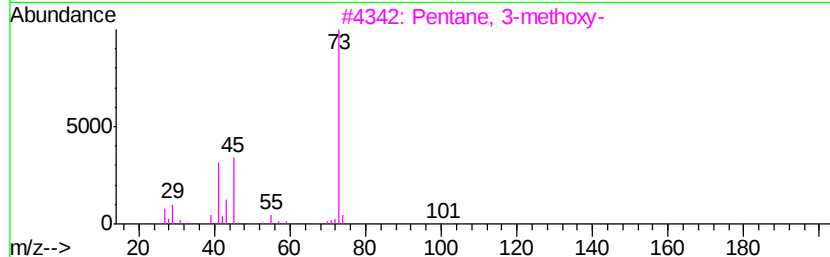
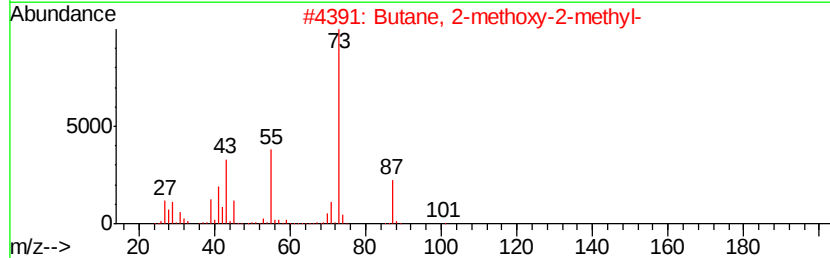
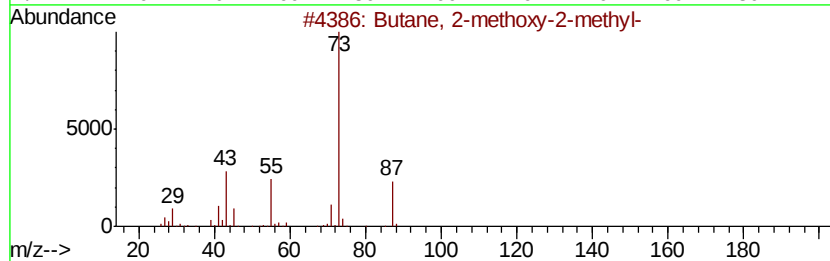
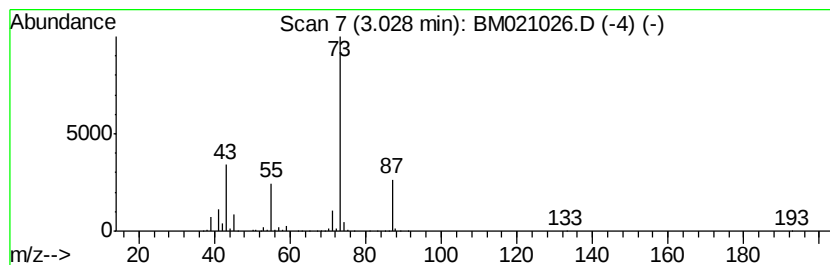
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
Quant Title : SVOA CALIBRATION

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

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

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 3.03 | 16.77 ng/ul | 1162070 | 1,4-Dichlorobenzene-d4 | 7.79 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 86   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 74   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 4    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 9    |
| 5    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 9    |



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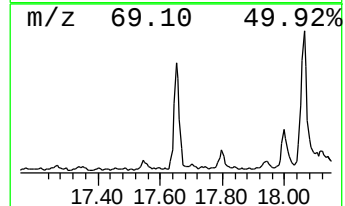
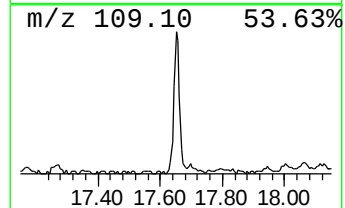
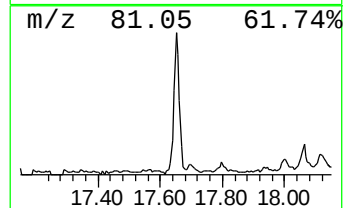
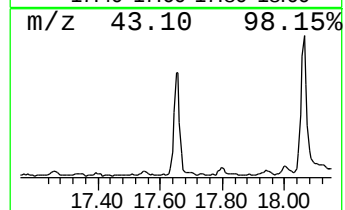
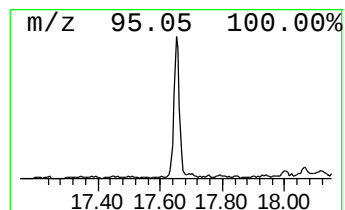
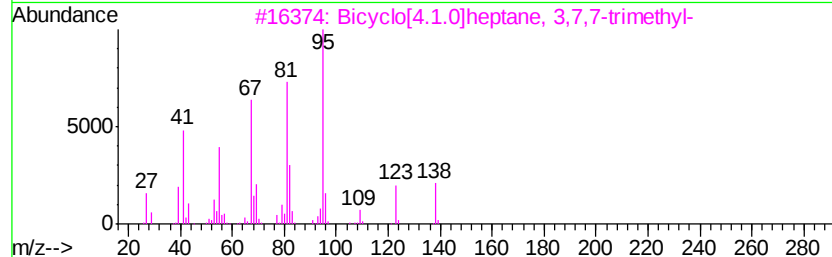
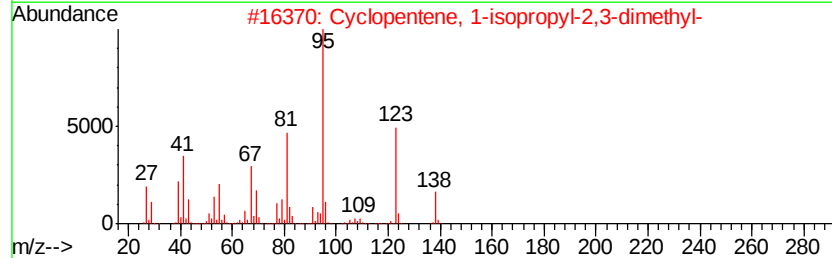
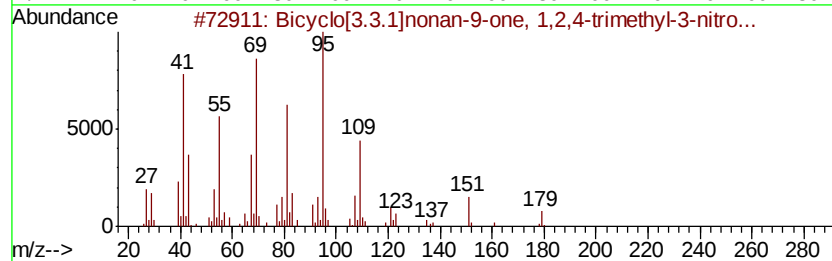
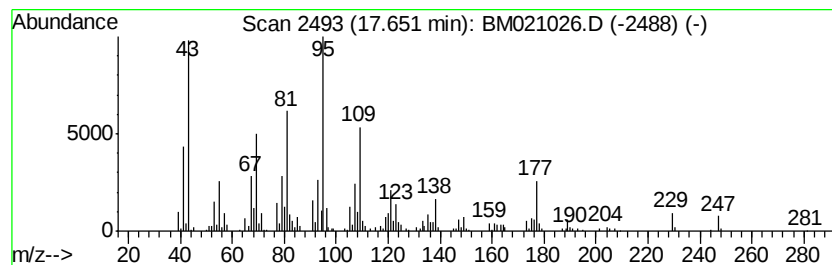
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown-01 Concentration Rank 10

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.65 | 2.50 ng/ul | 492844 | Phenanthrene-d10 | 17.17 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Bicyclo[3.3.1]nonan-9-one, 1,2,4... | 225 | C12H19NO3 | 129967-65-3 | 47   |
| 2    |    | Cyclopentene, 1-isopropyl-2,3-di... | 138 | C10H18    | 007712-73-4 | 42   |
| 3    |    | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18    | 000554-59-6 | 41   |
| 4    |    | Cyclohexene, 3-methyl-6-(1-methy... | 138 | C10H18    | 005256-65-5 | 38   |
| 5    |    | N-(1,1-Dimethylpropynyl)-2-furan... | 177 | C10H11NO2 | 039108-97-9 | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4228

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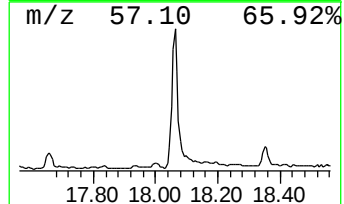
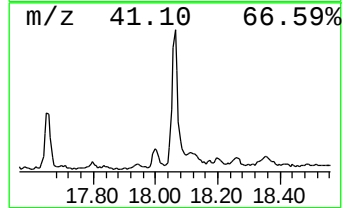
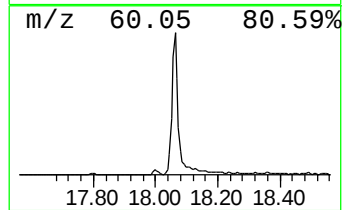
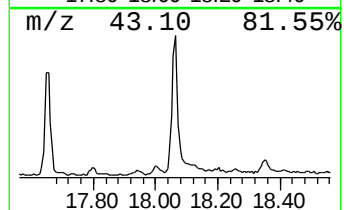
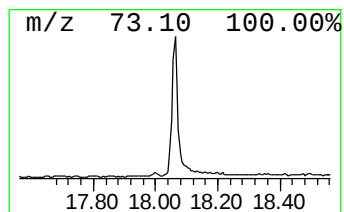
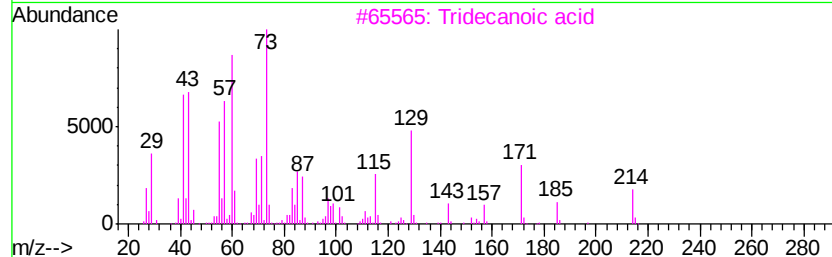
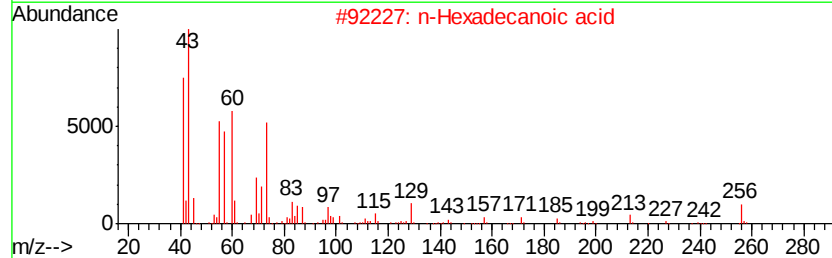
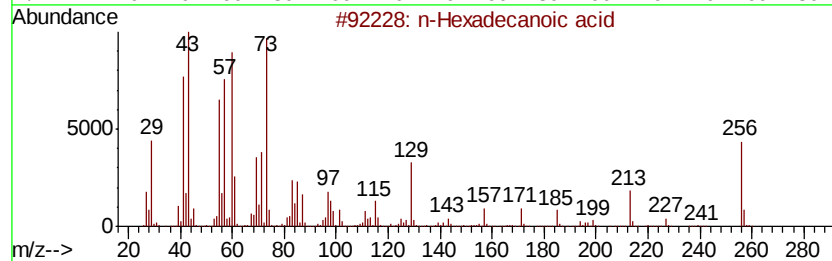
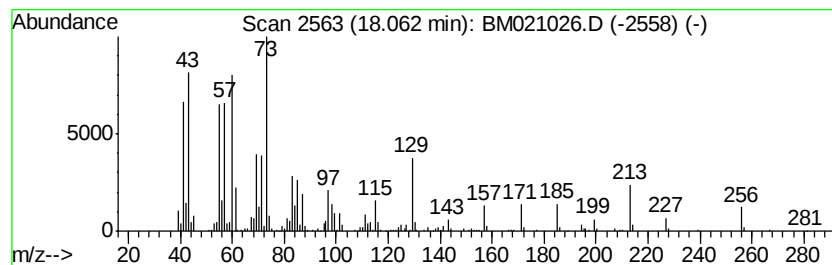
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.06 | 4.51 ng/ul | 889152 | Phenanthrene-d10 | 17.17 |

| Hit# of | 5                   | Tentative ID | MW       | MolForm     | CAS# | Qual |
|---------|---------------------|--------------|----------|-------------|------|------|
| 1       | n-Hexadecanoic acid | 256          | C16H32O2 | 000057-10-3 | 99   |      |
| 2       | n-Hexadecanoic acid | 256          | C16H32O2 | 000057-10-3 | 95   |      |
| 3       | Tridecanoic acid    | 214          | C13H26O2 | 000638-53-9 | 93   |      |
| 4       | Tridecanoic acid    | 214          | C13H26O2 | 000638-53-9 | 87   |      |
| 5       | Tridecanoic acid    | 214          | C13H26O2 | 000638-53-9 | 86   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4228

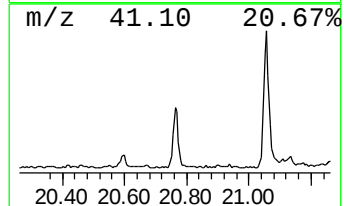
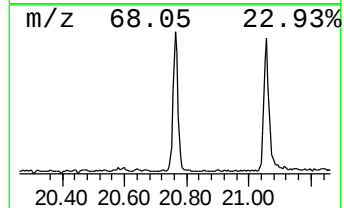
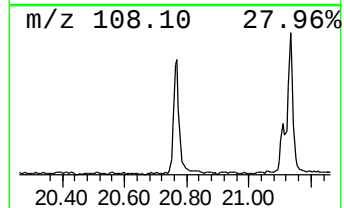
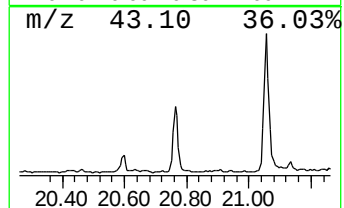
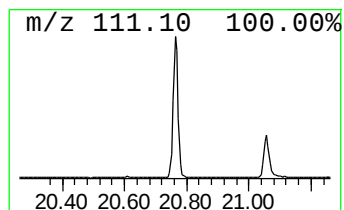
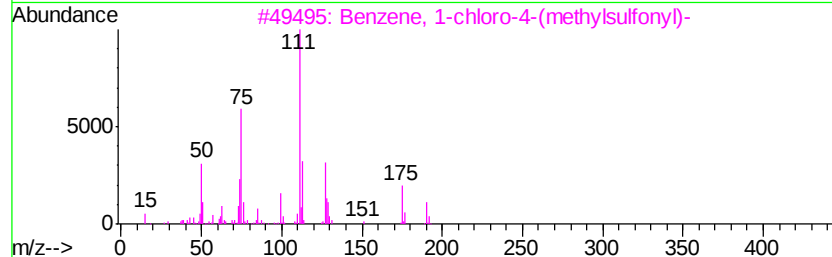
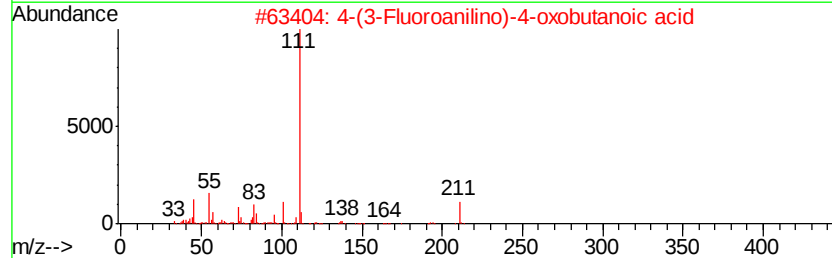
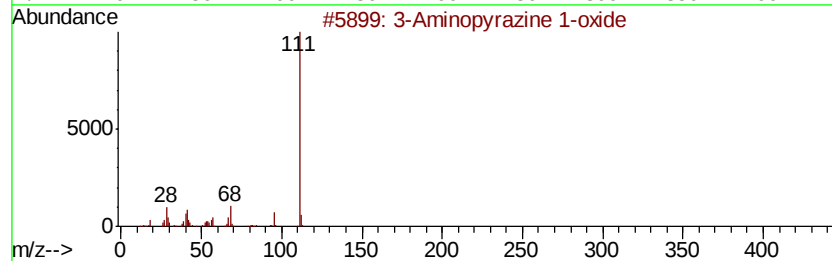
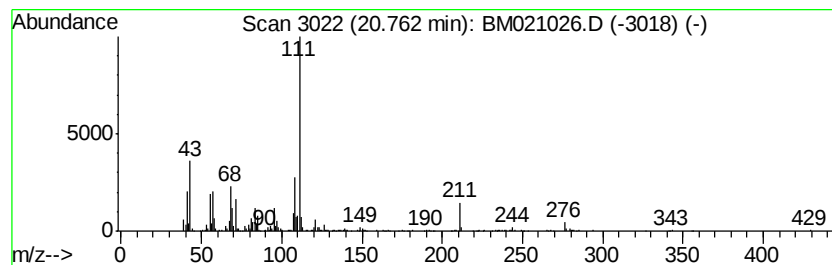
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Quant Title : SVOA CALIBRATION

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

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Peak Number 4 unknown-02 Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.76 | 3.23 ng/ul | 620890 | Chrysene-d12     | 21.35 |

| Hit# | of | Tentative ID                           | MW  | MolForm     | CAS#        | Qual |
|------|----|----------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | 3-Aminopyrazine 1-oxide                | 111 | C4H5N3O     | 006863-77-0 | 47   |
| 2    |    | 4-(3-Fluoroanilino)-4-oxobutanoic acid | 211 | C10H10FN O3 | 025589-40-6 | 43   |
| 3    |    | Benzene, 1-chloro-4-(methylsulfonyl)-  | 190 | C7H7ClO2S   | 000098-57-7 | 43   |
| 4    |    | Benzenamine, 3-fluoro-                 | 111 | C6H6FN      | 000372-19-0 | 38   |
| 5    |    | 4-Amino-6-hydroxypyrimidine            | 111 | C4H5N3O     | 001193-22-2 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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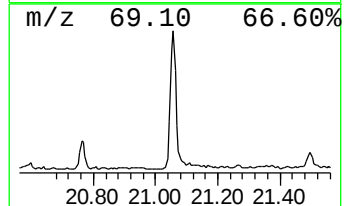
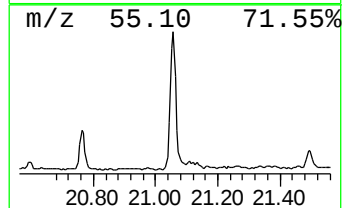
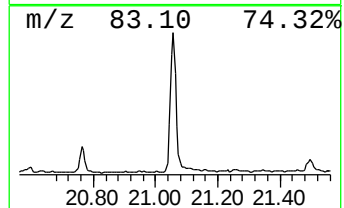
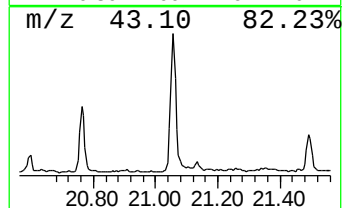
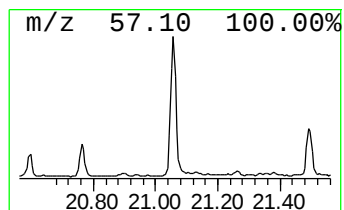
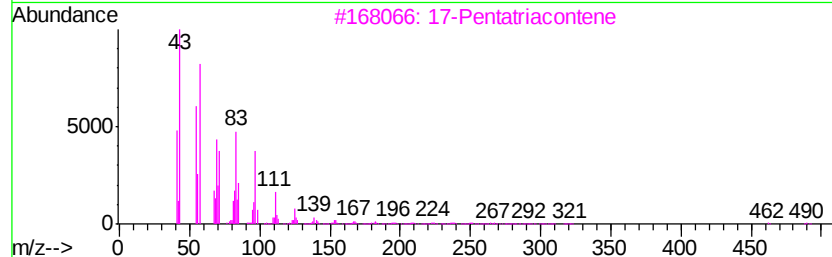
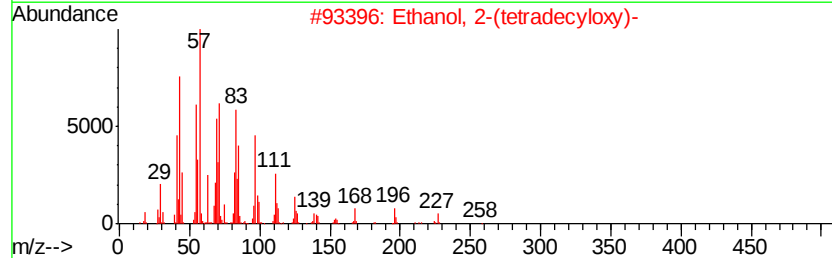
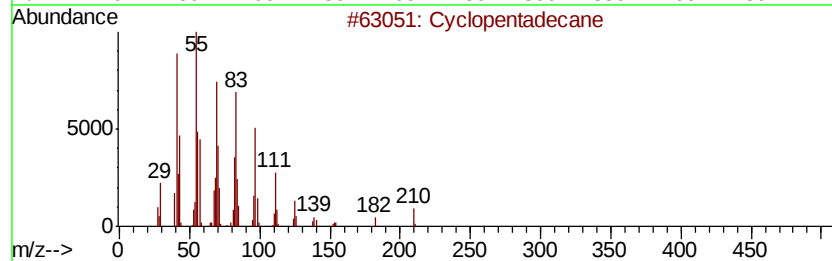
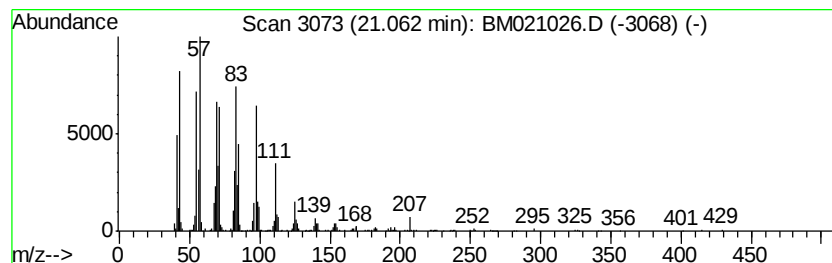
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Cyclic21.06 Concentration Rank 4

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 21.06 | 5.74 ng/ul | 1102790 | Chrysene-d12     | 21.35 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|---------|---|-------------------------------------|-----|-------------|--------------|------|
| 1       |   | Cyclopentadecane                    | 210 | C15H30      | 000295-48-7  | 93   |
| 2       |   | Ethanol, 2-(tetradecyloxy)-         | 258 | C16H34O2    | 002136-70-1  | 91   |
| 3       |   | 17-Pentatriacontene                 | 491 | C35H70      | 006971-40-0  | 91   |
| 4       |   | Cyclooctacosane                     | 392 | C28H56      | 000297-24-5  | 91   |
| 5       |   | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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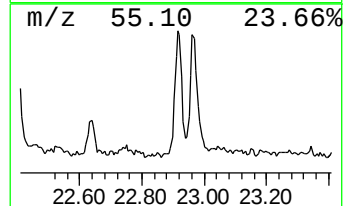
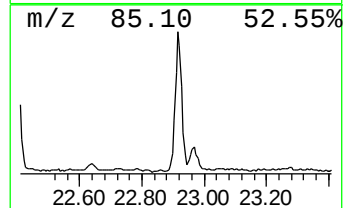
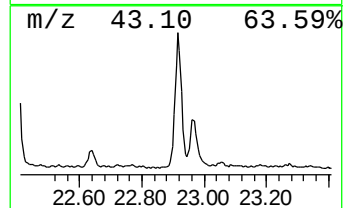
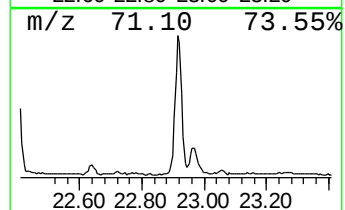
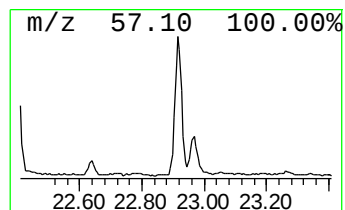
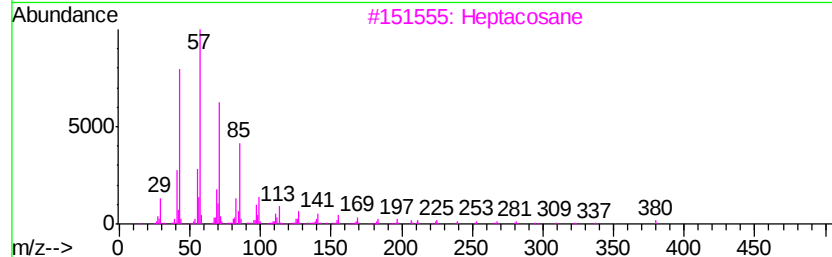
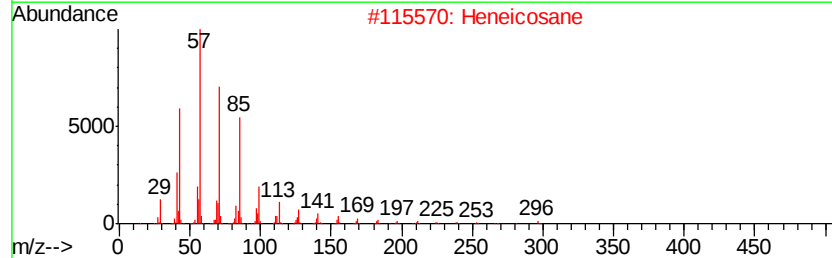
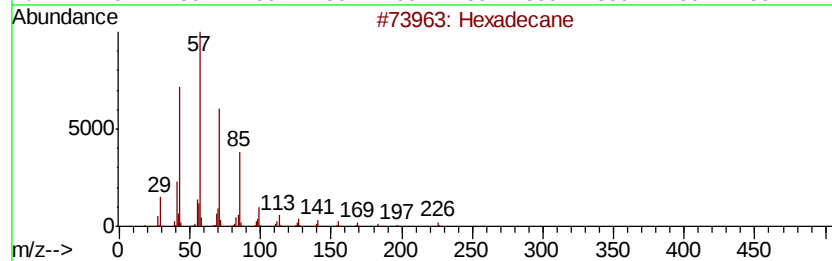
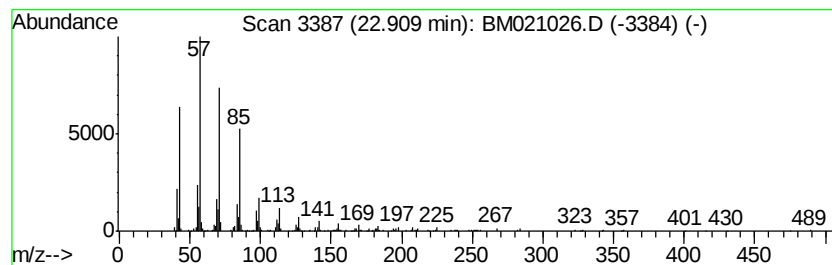
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.91 | 3.99 ng/ul | 690641 | Perylene-d12     | 23.63 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane             | 226 | C16H34  | 000544-76-3 | 94   |
| 2    |    | Heneicosane            | 296 | C21H44  | 000629-94-7 | 91   |
| 3    |    | Heptacosane            | 380 | C27H56  | 000593-49-7 | 91   |
| 4    |    | Tetracosane, 11-decyl- | 479 | C34H70  | 055429-84-0 | 91   |
| 5    |    | Eicosane               | 282 | C20H42  | 000112-95-8 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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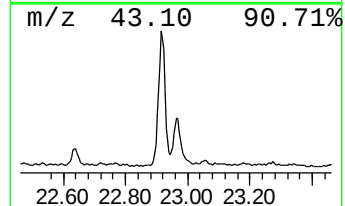
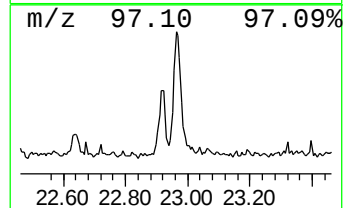
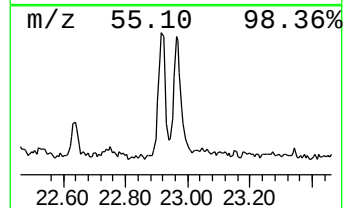
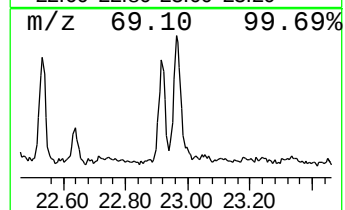
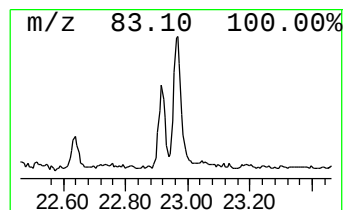
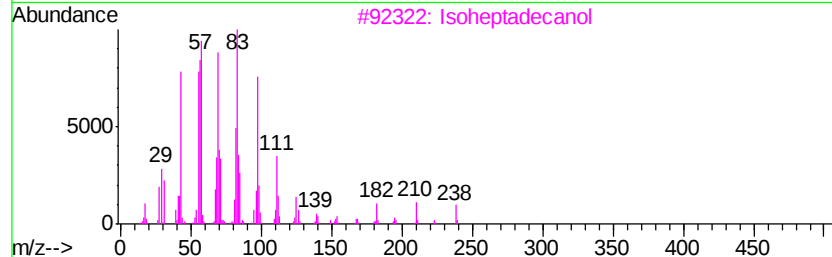
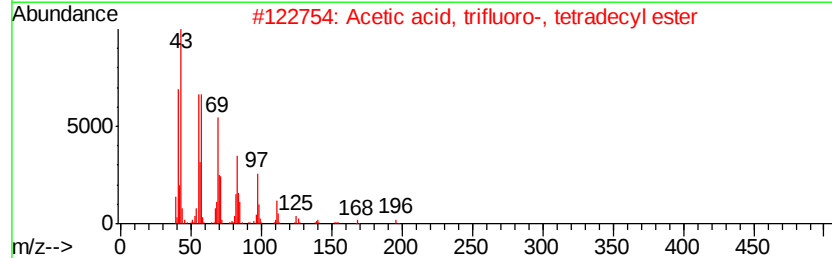
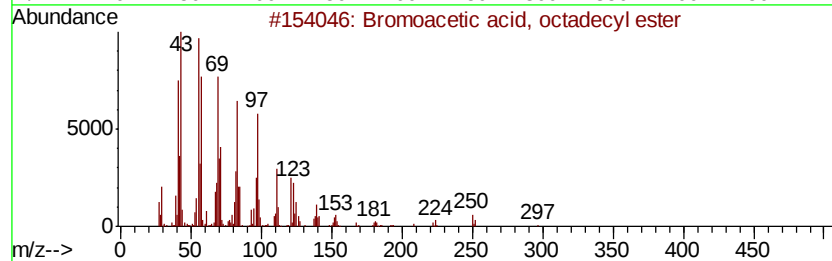
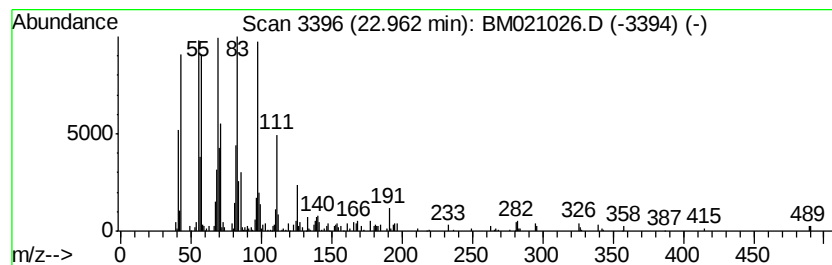
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Bromoacetic acid, octadecyl... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.96 | 2.56 ng/ul | 443120 | Perylene-d12     | 23.63 |

| Hit# of | 5 | Tentative ID                           | MW  | MolForm    | CAS#        | Qual |
|---------|---|----------------------------------------|-----|------------|-------------|------|
| 1       |   | Bromoacetic acid, octadecyl ester      | 390 | C20H39BrO2 | 018992-03-5 | 91   |
| 2       |   | Acetic acid, trifluoro-, tetradecyl... | 310 | C16H29F3O2 | 006222-02-2 | 83   |
| 3       |   | Isoheptadecanol                        | 256 | C17H36O    | 057289-07-3 | 83   |
| 4       |   | 1-Nonadecene                           | 266 | C19H38     | 018435-45-5 | 81   |
| 5       |   | 1-Triacontanol                         | 438 | C30H62O    | 000593-50-0 | 74   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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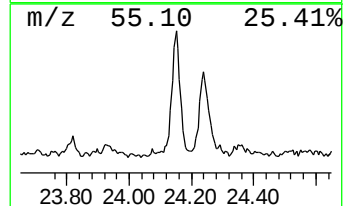
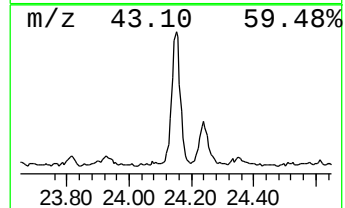
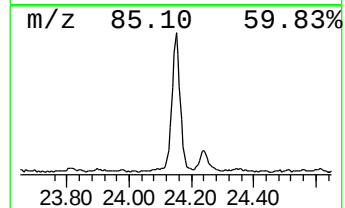
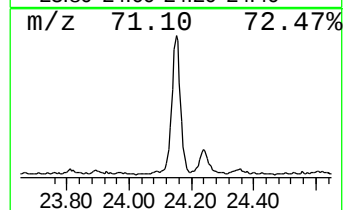
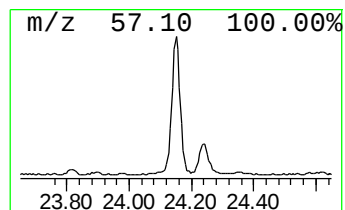
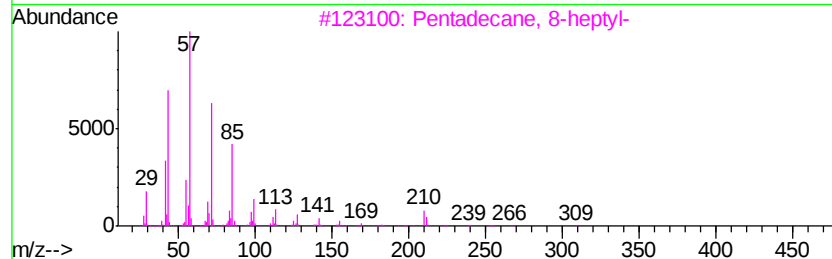
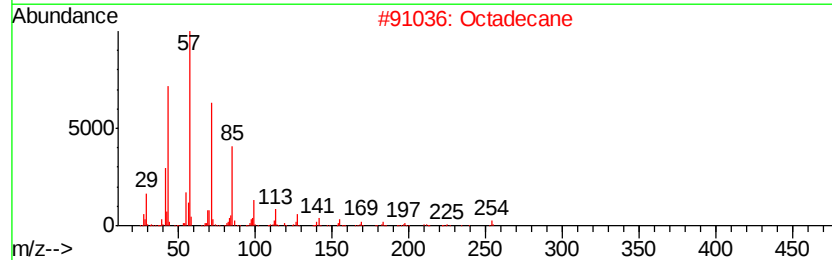
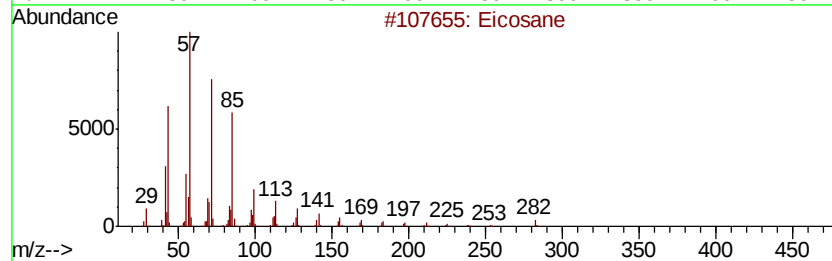
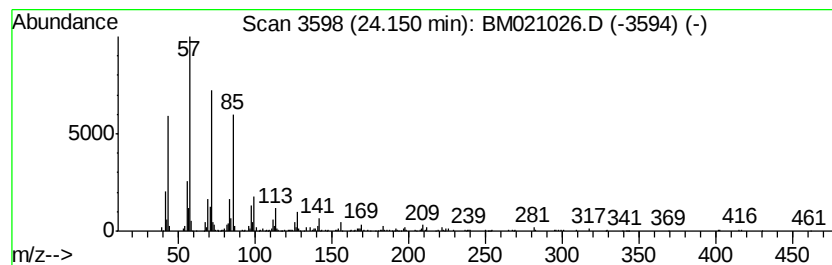
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.15 | 4.13 ng/ul | 714987 | Perylene-d12     | 23.63 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane               | 282 | C20H42  | 000112-95-8 | 94   |
| 2    |    | Octadecane             | 254 | C18H38  | 000593-45-3 | 92   |
| 3    |    | Pentadecane, 8-heptyl- | 310 | C22H46  | 071005-15-7 | 91   |
| 4    |    | Heptadecane, 9-octyl-  | 352 | C25H52  | 007225-64-1 | 91   |
| 5    |    | Tetracosane, 11-decyl- | 479 | C34H70  | 055429-84-0 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4228

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Quant Title : SVOA CALIBRATION

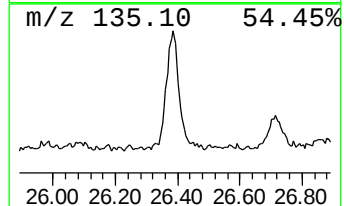
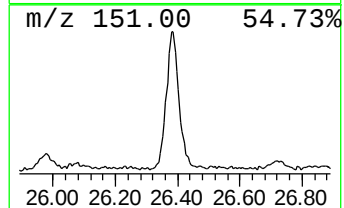
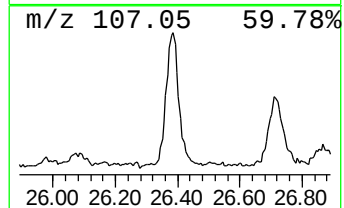
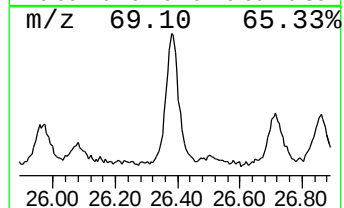
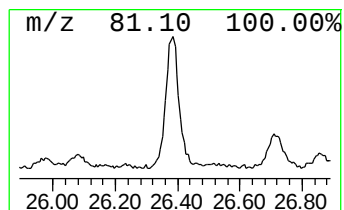
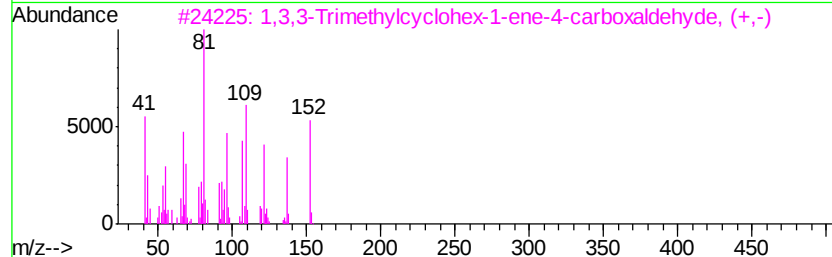
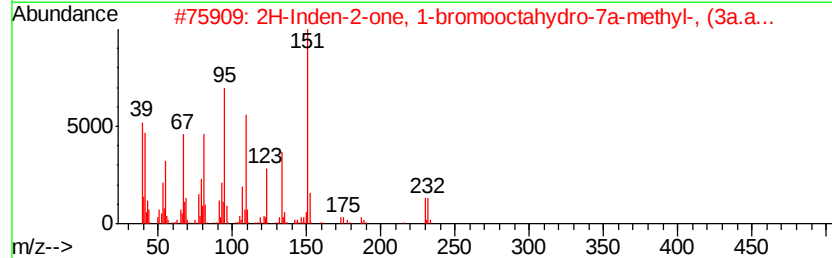
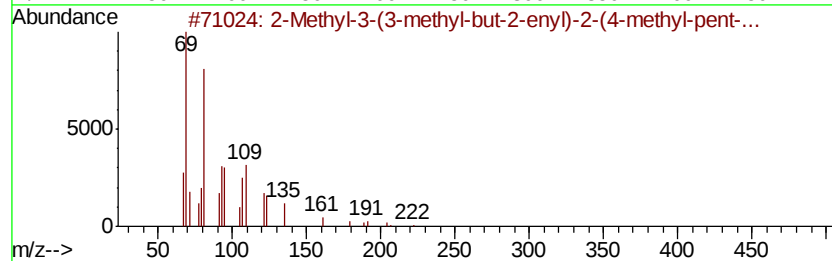
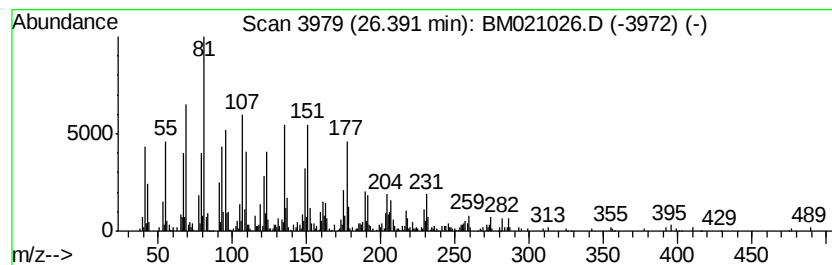
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 unknown-03 Concentration Rank 3

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 26.39 | 7.84 ng/ul | 1356750 | Perylene-d12     | 23.63 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 2-Methyl-3-(3-methyl-but-2-enyl)... | 222 | C15H26O      | 1000144-10-2 | 38      |      |      |
| 2    | 2H-Inden-2-one, 1-bromooctahydro... | 230 | C10H15BrO    | 054725-15-4  | 30      |      |      |
| 3    | 1,3,3-Trimethylcyclohex-1-ene-4-... | 152 | C10H16O      | 127128-60-3  | 30      |      |      |
| 4    | dl-Thiostictic acid                 | 206 | C8H14O2S2    | 001077-28-7  | 30      |      |      |
| 5    | 1-Cyclohexene-1-acetaldehyde, 2,... | 166 | C11H18O      | 000472-66-2  | 27      |      |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

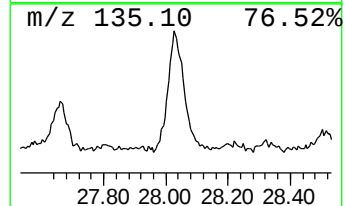
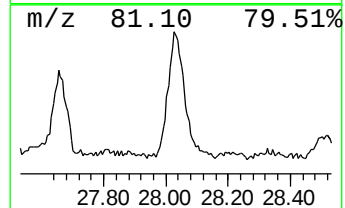
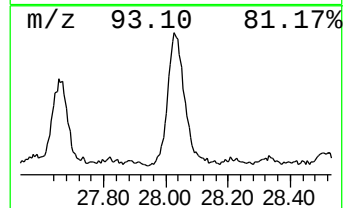
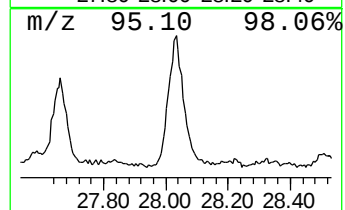
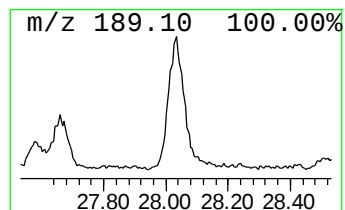
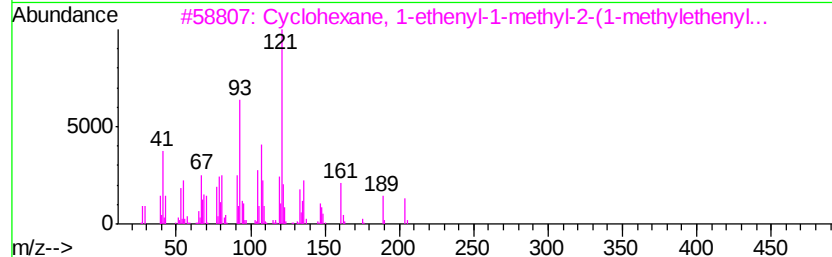
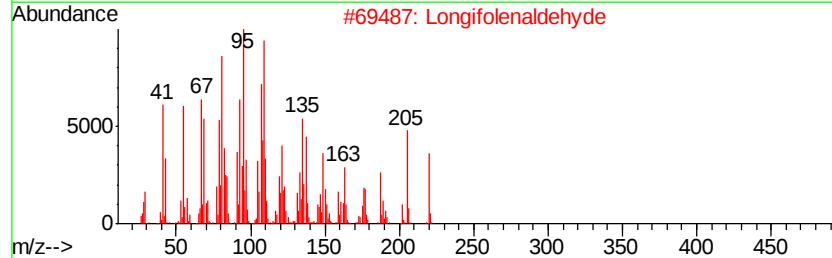
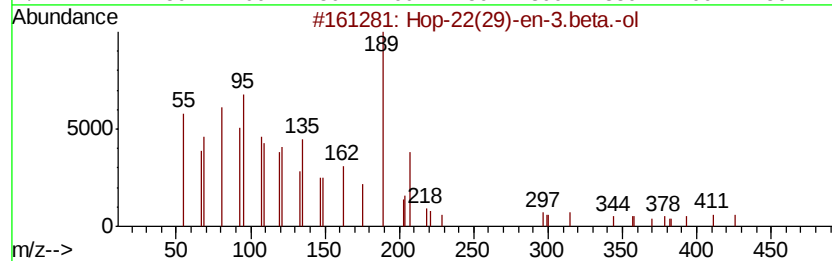
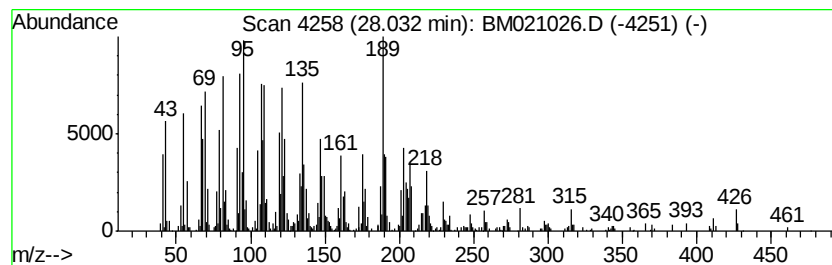
Instrument :  
BNA\_M  
ClientSampled :  
A4228

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 10 Hop-22(29)-en-3.beta.-ol Concentration Rank 2

| R.T.    | EstConc     | Area                                | Relative to ISTD | R.T.           |
|---------|-------------|-------------------------------------|------------------|----------------|
| 28.03   | 16.06 ng/ul | 2779470                             | Perylene-d12     | 23.63          |
| Hit# of | 5           | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |             | Hop-22(29)-en-3.beta.-ol            | 426 C30H50O      | 058801-23-3 53 |
| 2       |             | Longifolenaldehyde                  | 220 C15H24O      | 019890-84-7 46 |
| 3       |             | Cyclohexane, 1-ethenyl-1-methyl-... | 204 C15H24       | 003242-08-8 42 |
| 4       |             | 3,7-Cyclodecadien-1-one, 3,7-dim... | 218 C15H22O      | 006902-91-6 38 |
| 5       |             | .alpha.-Cadinol                     | 222 C15H26O      | 000481-34-5 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM061819\  
Data File : BM021026.D  
Acq On : 18 Jun 2019 23:46  
Operator : HP/JU  
Sample : K3332-03  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4228

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 3.03  | 16.8    | ng/ul | 1162070  | 1                     | 7.79  | 1385920 | 20.0 |
| unknown-01           | 17.65 | 2.5     | ng/ul | 492844   | 4                     | 17.17 | 3941670 | 20.0 |
| n-Hexadecanoic acid  | 18.06 | 4.5     | ng/ul | 889152   | 4                     | 17.17 | 3941670 | 20.0 |
| unknown-02           | 20.76 | 3.2     | ng/ul | 620890   | 5                     | 21.35 | 3839950 | 20.0 |
| (DEL) Alkane: Cyc... | 21.06 | 5.7     | ng/ul | 1102790  | 5                     | 21.35 | 3839950 | 20.0 |
| (DEL) Alkane: Str... | 22.91 | 4.0     | ng/ul | 690641   | 6                     | 23.63 | 3462190 | 20.0 |
| Bromoacetic acid,... | 22.96 | 2.6     | ng/ul | 443120   | 6                     | 23.63 | 3462190 | 20.0 |
| (DEL) Alkane: Str... | 24.15 | 4.1     | ng/ul | 714987   | 6                     | 23.63 | 3462190 | 20.0 |
| unknown-03           | 26.39 | 7.8     | ng/ul | 1356750  | 6                     | 23.63 | 3462190 | 20.0 |
| Hop-22(29)-en-3.b... | 28.03 | 16.1    | ng/ul | 2779470  | 6                     | 23.63 | 3462190 | 20.0 |