

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
 Data File : BP000201.D  
 Acq On : 11 Sep 2019 14:18  
 Operator : HP/JU  
 Sample : K4633-09  
 Misc : GCMS CONFIRMATION  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D07

## 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\_P\METHODS\SOM-EPA-BP090519MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.152       | 8             | 11          | 18           | rVB      | 71430          | 71111         | 0.70%           | 0.099%        |
| 2         | 2.223       | 18            | 23          | 28           | rVB2     | 147441         | 184941        | 1.81%           | 0.258%        |
| 3         | 2.323       | 37            | 40          | 44           | rBV      | 20344          | 30136         | 0.29%           | 0.042%        |
| 4         | 2.364       | 44            | 47          | 50           | rVV      | 39437          | 51669         | 0.51%           | 0.072%        |
| 5         | 2.405       | 50            | 54          | 59           | rVV      | 142909         | 191499        | 1.87%           | 0.267%        |
| 6         | 2.458       | 59            | 63          | 68           | rVB      | 25370          | 31788         | 0.31%           | 0.044%        |
| 7         | 2.599       | 81            | 87          | 94           | rVB      | 408014         | 538388        | 5.27%           | 0.752%        |
| 8         | 3.146       | 174           | 180         | 188          | rVB      | 24061          | 42352         | 0.41%           | 0.059%        |
| 9         | 6.893       | 813           | 817         | 820          | rBV      | 2031779        | 1646893       | 16.12%          | 2.300%        |
| 10        | 8.175       | 1031          | 1035        | 1038         | rBV      | 2725644        | 2237758       | 21.90%          | 3.125%        |
| 11        | 8.199       | 1038          | 1039        | 1042         | rVB      | 87905          | 41234         | 0.40%           | 0.058%        |
| 12        | 8.893       | 1151          | 1157        | 1162         | rBV      | 39606          | 33558         | 0.33%           | 0.047%        |
| 13        | 9.946       | 1332          | 1336        | 1339         | rBV      | 3322435        | 2704316       | 26.47%          | 3.777%        |
| 14        | 9.975       | 1339          | 1341        | 1345         | rVB      | 343981         | 271823        | 2.66%           | 0.380%        |
| 15        | 10.152      | 1367          | 1371        | 1374         | rBV      | 101616         | 85475         | 0.84%           | 0.119%        |
| 16        | 10.499      | 1426          | 1430        | 1435         | rVB      | 190389         | 158311        | 1.55%           | 0.221%        |
| 17        | 10.587      | 1443          | 1445        | 1447         | rVV      | 48677          | 37980         | 0.37%           | 0.053%        |
| 18        | 10.634      | 1451          | 1453        | 1455         | rVV      | 32438          | 28136         | 0.28%           | 0.039%        |
| 19        | 10.657      | 1455          | 1457        | 1462         | rVB      | 41200          | 34616         | 0.34%           | 0.048%        |
| 20        | 10.740      | 1467          | 1471        | 1475         | rBV      | 38246          | 48716         | 0.48%           | 0.068%        |
| 21        | 11.310      | 1562          | 1568        | 1571         | rBV3     | 61443          | 87184         | 0.85%           | 0.122%        |
| 22        | 11.346      | 1571          | 1574        | 1580         | rVB      | 126420         | 123300        | 1.21%           | 0.172%        |
| 23        | 11.452      | 1588          | 1592        | 1594         | rBV      | 3217188        | 3105719       | 30.40%          | 4.337%        |
| 24        | 11.475      | 1594          | 1596        | 1599         | rVV      | 3176118        | 2501974       | 24.49%          | 3.494%        |
| 25        | 11.522      | 1602          | 1604        | 1608         | rVB      | 136504         | 118130        | 1.16%           | 0.165%        |
| 26        | 11.752      | 1640          | 1643        | 1646         | rVV      | 33873          | 28961         | 0.28%           | 0.040%        |
| 27        | 11.787      | 1646          | 1649        | 1655         | rVB2     | 31099          | 35830         | 0.35%           | 0.050%        |
| 28        | 11.869      | 1660          | 1663        | 1669         | rVB      | 27901          | 30416         | 0.30%           | 0.042%        |
| 29        | 11.957      | 1675          | 1678        | 1681         | rBV      | 255240         | 242389        | 2.37%           | 0.339%        |
| 30        | 11.987      | 1681          | 1683        | 1688         | rVB      | 375700         | 310408        | 3.04%           | 0.434%        |
| 31        | 12.075      | 1693          | 1698        | 1700         | rBV      | 434413         | 422923        | 4.14%           | 0.591%        |
| 32        | 12.099      | 1700          | 1702        | 1708         | rVB      | 158557         | 137890        | 1.35%           | 0.193%        |
| 33        | 12.263      | 1726          | 1730        | 1733         | rBV      | 239411         | 219365        | 2.15%           | 0.306%        |
| 34        | 12.340      | 1740          | 1743        | 1746         | rBV      | 27482          | 28168         | 0.28%           | 0.039%        |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 12.416 | 1750 | 1756 | 1759 | rBV  | 59722   | 65011   | 0.64%  | 0.091%  |
| 36 | 12.446 | 1759 | 1761 | 1763 | rVV  | 53901   | 45347   | 0.44%  | 0.063%  |
| 37 | 12.469 | 1763 | 1765 | 1770 | rVB  | 41209   | 39210   | 0.38%  | 0.055%  |
| 38 | 12.522 | 1770 | 1774 | 1777 | rBV  | 90114   | 96353   | 0.94%  | 0.135%  |
| 39 | 12.557 | 1777 | 1780 | 1782 | rVV2 | 55393   | 59694   | 0.58%  | 0.083%  |
| 40 | 12.581 | 1782 | 1784 | 1786 | rVB  | 45851   | 34701   | 0.34%  | 0.048%  |
| 41 | 12.610 | 1786 | 1789 | 1793 | rBV3 | 35057   | 54026   | 0.53%  | 0.075%  |
| 42 | 12.687 | 1798 | 1802 | 1806 | rBV  | 6581044 | 6133953 | 60.04% | 8.567%  |
| 43 | 12.734 | 1806 | 1810 | 1812 | rVV  | 42476   | 38914   | 0.38%  | 0.054%  |
| 44 | 12.840 | 1824 | 1828 | 1832 | rVB  | 133160  | 120875  | 1.18%  | 0.169%  |
| 45 | 12.916 | 1835 | 1841 | 1845 | rVV2 | 3096001 | 3883101 | 38.01% | 5.423%  |
| 46 | 12.969 | 1847 | 1850 | 1855 | rVB  | 223819  | 221457  | 2.17%  | 0.309%  |
| 47 | 13.040 | 1858 | 1862 | 1867 | rBV  | 340799  | 332106  | 3.25%  | 0.464%  |
| 48 | 13.146 | 1875 | 1880 | 1887 | rBV  | 292470  | 388423  | 3.80%  | 0.542%  |
| 49 | 13.251 | 1891 | 1898 | 1902 | rVB2 | 552548  | 931450  | 9.12%  | 1.301%  |
| 50 | 13.322 | 1906 | 1910 | 1913 | rBV2 | 351359  | 322291  | 3.15%  | 0.450%  |
| 51 | 13.357 | 1913 | 1916 | 1918 | rBV2 | 207519  | 222924  | 2.18%  | 0.311%  |
| 52 | 13.387 | 1918 | 1921 | 1924 | rVB  | 180581  | 181606  | 1.78%  | 0.254%  |
| 53 | 13.422 | 1924 | 1927 | 1930 | rVB  | 88483   | 90022   | 0.88%  | 0.126%  |
| 54 | 13.451 | 1930 | 1932 | 1935 | rVB  | 60430   | 59469   | 0.58%  | 0.083%  |
| 55 | 13.487 | 1935 | 1938 | 1939 | rBV  | 84240   | 79927   | 0.78%  | 0.112%  |
| 56 | 13.581 | 1952 | 1954 | 1958 | rVB2 | 31753   | 34295   | 0.34%  | 0.048%  |
| 57 | 13.651 | 1961 | 1966 | 1968 | rBV2 | 84905   | 125431  | 1.23%  | 0.175%  |
| 58 | 13.693 | 1970 | 1973 | 1976 | rVV  | 151769  | 171934  | 1.68%  | 0.240%  |
| 59 | 13.716 | 1976 | 1977 | 1980 | rVV3 | 57651   | 49736   | 0.49%  | 0.069%  |
| 60 | 13.751 | 1980 | 1983 | 1986 | rVV2 | 52589   | 63904   | 0.63%  | 0.089%  |
| 61 | 13.787 | 1986 | 1989 | 1992 | rVB4 | 83370   | 91880   | 0.90%  | 0.128%  |
| 62 | 13.893 | 2002 | 2007 | 2009 | rBV  | 1126856 | 1194369 | 11.69% | 1.668%  |
| 63 | 13.916 | 2009 | 2011 | 2013 | rVV  | 652277  | 634295  | 6.21%  | 0.886%  |
| 64 | 13.940 | 2013 | 2015 | 2018 | rVV  | 456922  | 469028  | 4.59%  | 0.655%  |
| 65 | 13.969 | 2018 | 2020 | 2027 | rVB2 | 219988  | 247354  | 2.42%  | 0.345%  |
| 66 | 14.028 | 2027 | 2030 | 2032 | rBV3 | 36549   | 34278   | 0.34%  | 0.048%  |
| 67 | 14.063 | 2032 | 2036 | 2043 | rVB  | 286200  | 300037  | 2.94%  | 0.419%  |
| 68 | 14.146 | 2043 | 2050 | 2053 | rBV2 | 4098097 | 7353061 | 71.97% | 10.269% |
| 69 | 14.181 | 2053 | 2056 | 2061 | rVV  | 5845072 | 6710651 | 65.68% | 9.372%  |
| 70 | 14.240 | 2064 | 2066 | 2069 | rVB  | 96057   | 89248   | 0.87%  | 0.125%  |
| 71 | 14.281 | 2069 | 2073 | 2075 | rBV2 | 86850   | 118705  | 1.16%  | 0.166%  |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |          |         |         |
|-----|--------|------|------|------|------|---------|----------|---------|---------|
| 72  | 14.310 | 2076 | 2078 | 2080 | rBV2 | 34925   | 38904    | 0.38%   | 0.054%  |
| 73  | 14.334 | 2080 | 2082 | 2087 | rVB2 | 99630   | 118187   | 1.16%   | 0.165%  |
| 74  | 14.393 | 2087 | 2092 | 2094 | rBV2 | 73481   | 114569   | 1.12%   | 0.160%  |
| 75  | 14.457 | 2100 | 2103 | 2105 | rBV3 | 89739   | 99400    | 0.97%   | 0.139%  |
| 76  | 14.504 | 2109 | 2111 | 2113 | rVV2 | 123450  | 134774   | 1.32%   | 0.188%  |
| 77  | 14.546 | 2113 | 2118 | 2121 | rVV  | 380721  | 632930   | 6.19%   | 0.884%  |
| 78  | 14.581 | 2121 | 2124 | 2128 | rVV  | 425259  | 490736   | 4.80%   | 0.685%  |
| 79  | 14.634 | 2128 | 2133 | 2137 | rVV2 | 388078  | 569125   | 5.57%   | 0.795%  |
| 80  | 14.675 | 2137 | 2140 | 2142 | rVV2 | 228664  | 292922   | 2.87%   | 0.409%  |
| 81  | 14.698 | 2142 | 2144 | 2150 | rVV2 | 313760  | 395306   | 3.87%   | 0.552%  |
| 82  | 14.757 | 2150 | 2154 | 2159 | rVB  | 445225  | 533806   | 5.22%   | 0.746%  |
| 83  | 14.898 | 2175 | 2178 | 2183 | rBV4 | 43307   | 69653    | 0.68%   | 0.097%  |
| 84  | 14.993 | 2191 | 2194 | 2204 | rVB5 | 79164   | 154743   | 1.51%   | 0.216%  |
| 85  | 15.093 | 2208 | 2211 | 2215 | rVV3 | 73440   | 110347   | 1.08%   | 0.154%  |
| 86  | 15.145 | 2216 | 2220 | 2226 | rVB3 | 141154  | 238858   | 2.34%   | 0.334%  |
| 87  | 15.251 | 2231 | 2238 | 2247 | rVV  | 4739865 | 10216793 | 100.00% | 14.269% |
| 88  | 15.322 | 2247 | 2250 | 2258 | rVV  | 251991  | 364101   | 3.56%   | 0.509%  |
| 89  | 15.398 | 2259 | 2263 | 2267 | rVV5 | 86128   | 178333   | 1.75%   | 0.249%  |
| 90  | 15.451 | 2267 | 2272 | 2279 | rVV2 | 396303  | 714643   | 6.99%   | 0.998%  |
| 91  | 15.563 | 2280 | 2291 | 2301 | rVB2 | 1255860 | 2642727  | 25.87%  | 3.691%  |
| 92  | 15.698 | 2308 | 2314 | 2321 | rBV  | 1705285 | 2740081  | 26.82%  | 3.827%  |
| 93  | 15.851 | 2336 | 2340 | 2351 | rVB4 | 131592  | 286333   | 2.80%   | 0.400%  |
| 94  | 15.998 | 2361 | 2365 | 2377 | rVB2 | 160084  | 296668   | 2.90%   | 0.414%  |
| 95  | 16.269 | 2408 | 2411 | 2423 | rVB3 | 85977   | 196513   | 1.92%   | 0.274%  |
| 96  | 16.645 | 2470 | 2475 | 2490 | rVB2 | 159490  | 370018   | 3.62%   | 0.517%  |
| 97  | 16.810 | 2497 | 2503 | 2514 | rBV3 | 164078  | 454349   | 4.45%   | 0.635%  |
| 98  | 17.075 | 2539 | 2548 | 2557 | rBV3 | 273356  | 780235   | 7.64%   | 1.090%  |
| 99  | 17.287 | 2577 | 2584 | 2593 | rVB3 | 280162  | 727946   | 7.12%   | 1.017%  |
| 100 | 17.522 | 2618 | 2624 | 2635 | rVB  | 275395  | 686246   | 6.72%   | 0.958%  |

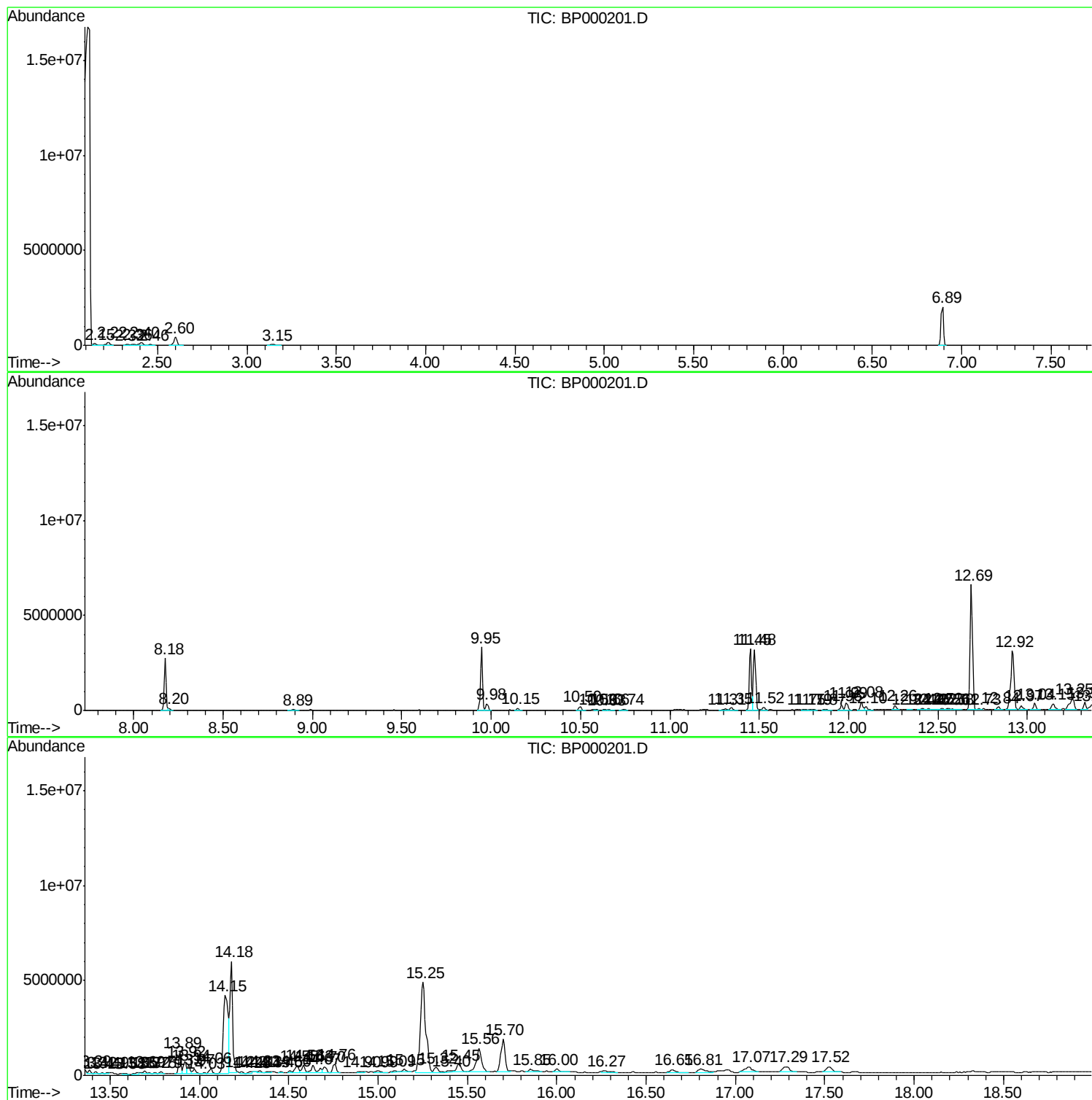
Sum of corrected areas: 71601669

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

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



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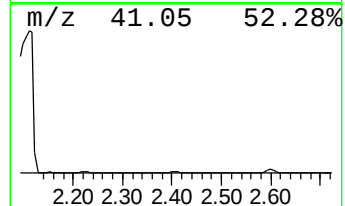
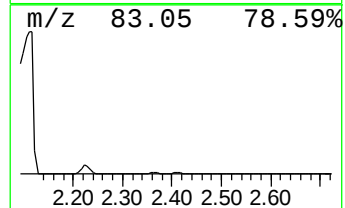
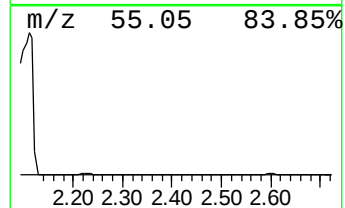
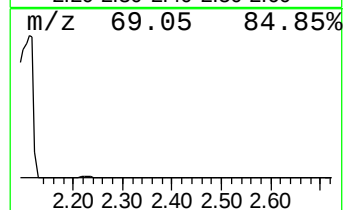
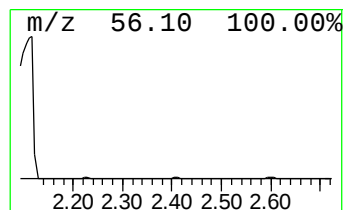
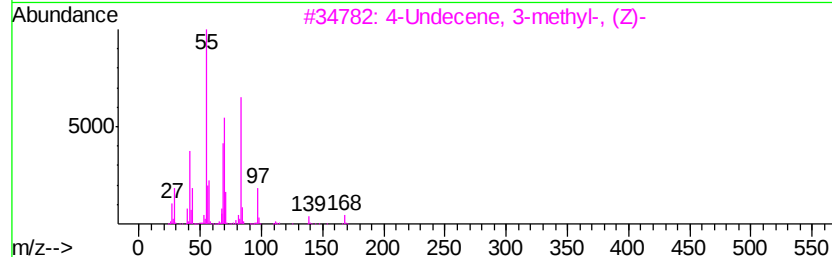
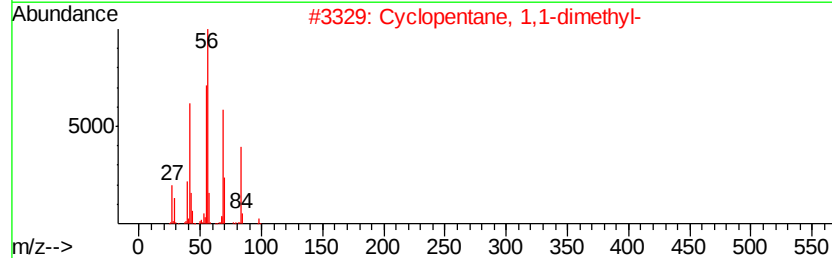
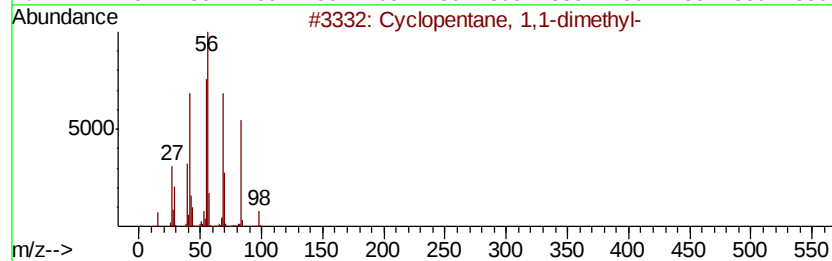
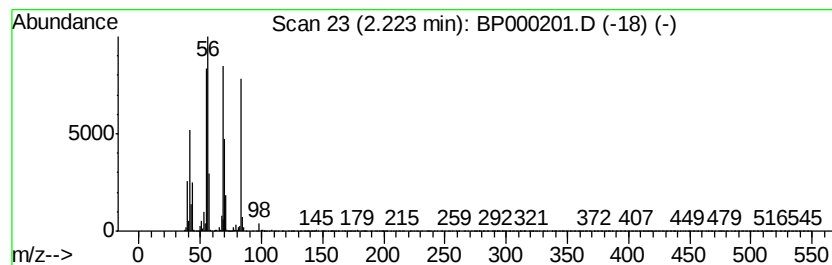
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Cyclic2.22 Concentration Rank 12

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 2.22 | 2.25 ng/ul | 184941 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Cyclopentane, 1,1-dimethyl-         | 98  | C7H14    | 001638-26-2 | 83   |
| 2    |    | Cyclopentane, 1,1-dimethyl-         | 98  | C7H14    | 001638-26-2 | 52   |
| 3    |    | 4-Undecene, 3-methyl-, (Z)-         | 168 | C12H24   | 074645-87-7 | 38   |
| 4    |    | 4-Decene, 5-methyl-, (E)-           | 154 | C11H22   | 062338-51-6 | 35   |
| 5    |    | Cyclopropanecarboxylic acid, 2-e... | 198 | C12H22O2 | 103604-31-5 | 35   |



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Quant Title : SVOA CALIBRATION

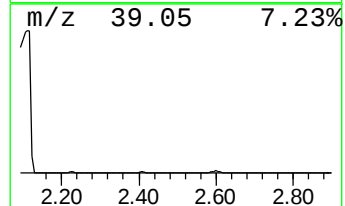
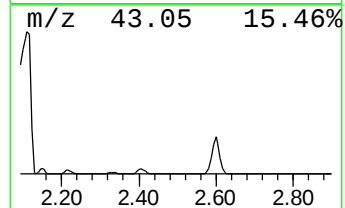
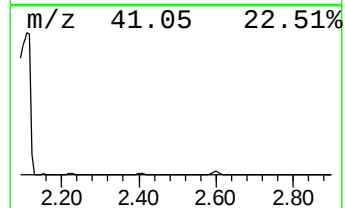
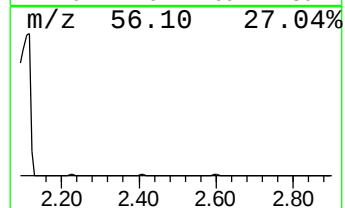
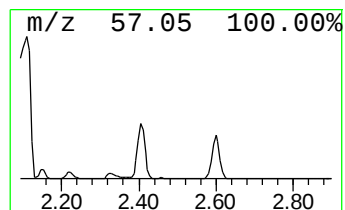
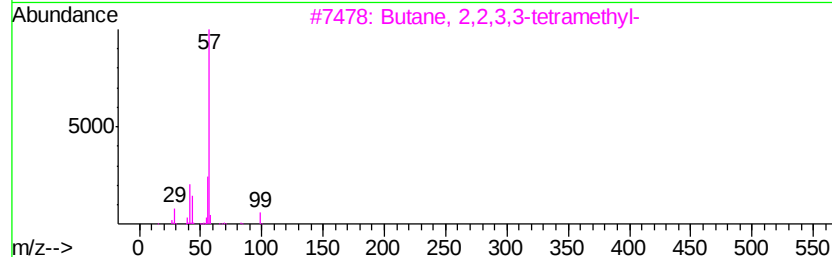
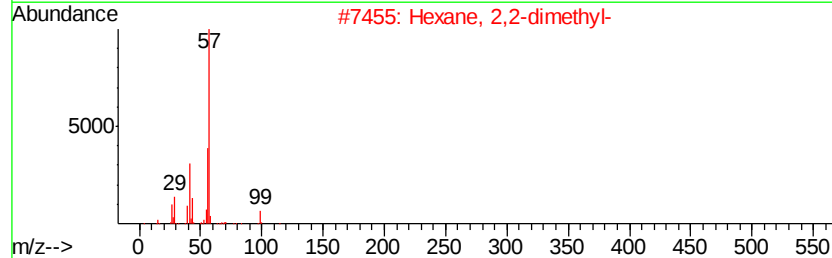
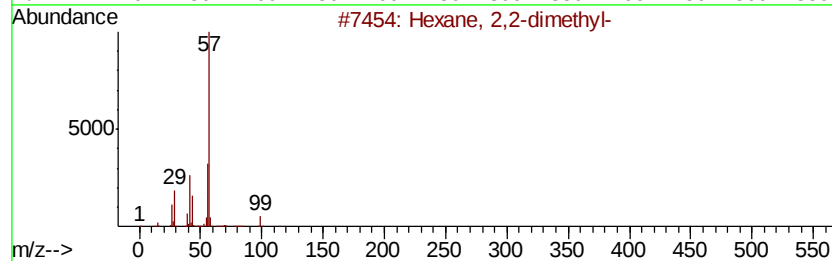
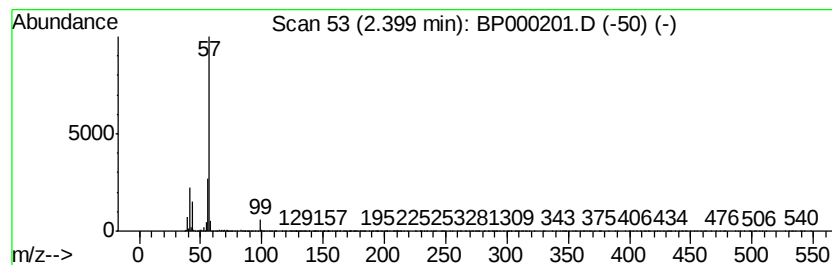
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 2.40 | 2.33 ng/ul | 191499 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexane, 2,2-dimethyl-        | 114 | C8H18   | 000590-73-8 | 72   |
| 2    |    |   | Hexane, 2,2-dimethyl-        | 114 | C8H18   | 000590-73-8 | 72   |
| 3    |    |   | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18   | 000594-82-1 | 72   |
| 4    |    |   | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18   | 000594-82-1 | 72   |
| 5    |    |   | Pentane, 2,2,4-trimethyl-    | 114 | C8H18   | 000540-84-1 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

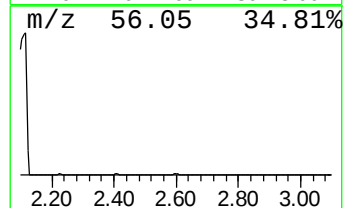
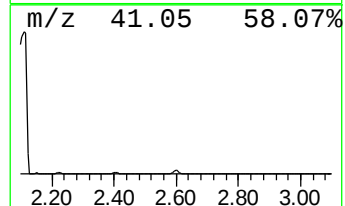
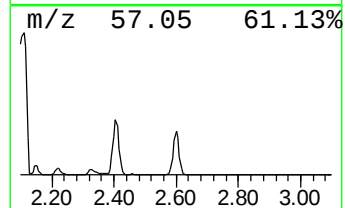
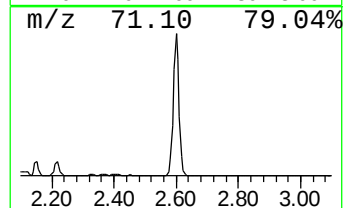
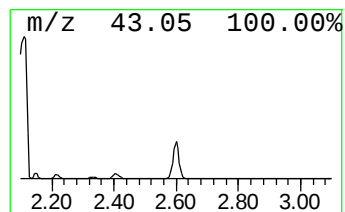
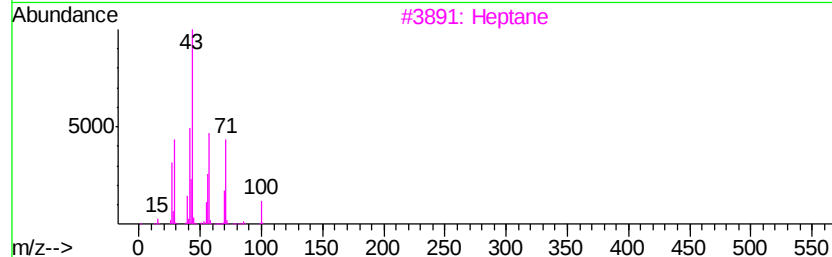
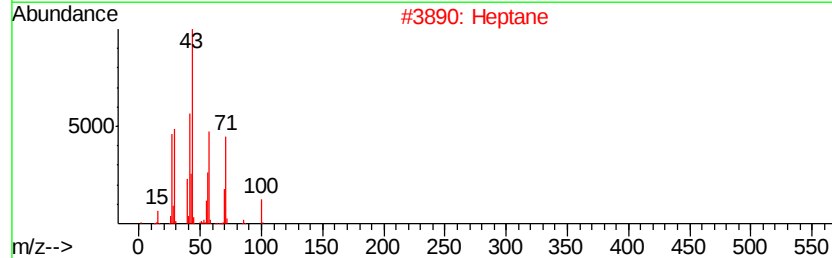
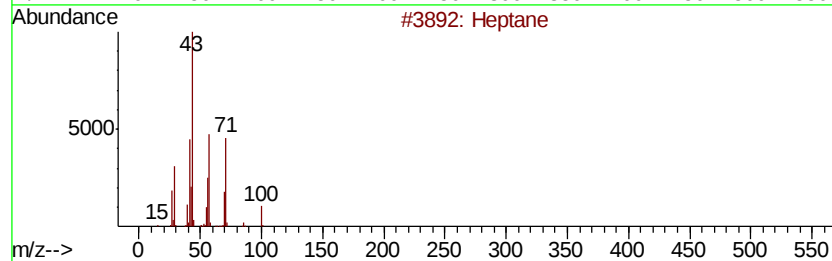
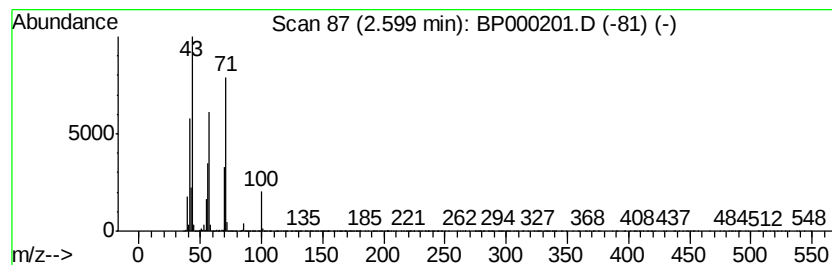
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 2.60 | 6.54 ng/ul | 538388 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of                            | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|-------------------------------|---|--------------|-----|---------|-------------|------|
| 1    | Heptane                       |   |              | 100 | C7H16   | 000142-82-5 | 94   |
| 2    | Heptane                       |   |              | 100 | C7H16   | 000142-82-5 | 91   |
| 3    | Heptane                       |   |              | 100 | C7H16   | 000142-82-5 | 91   |
| 4    | Heptane                       |   |              | 100 | C7H16   | 000142-82-5 | 80   |
| 5    | Acetaldehyde, propylhydrazone |   |              | 100 | C5H12N2 | 007422-88-0 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

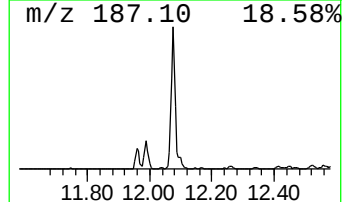
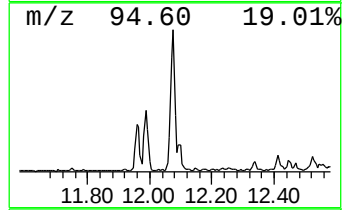
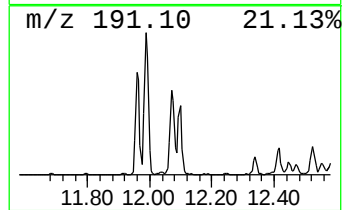
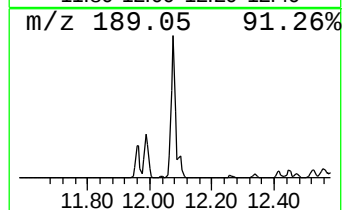
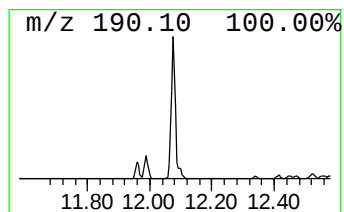
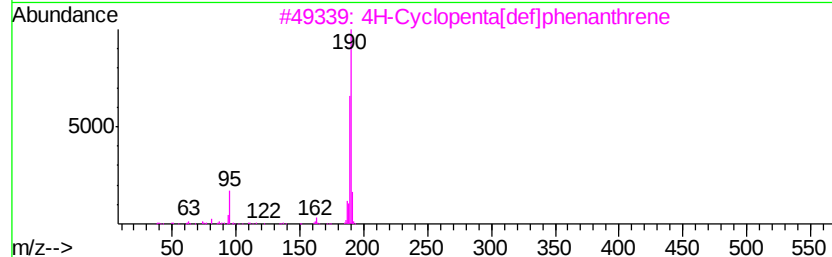
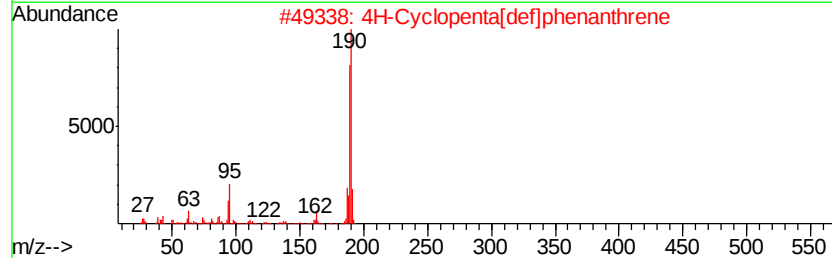
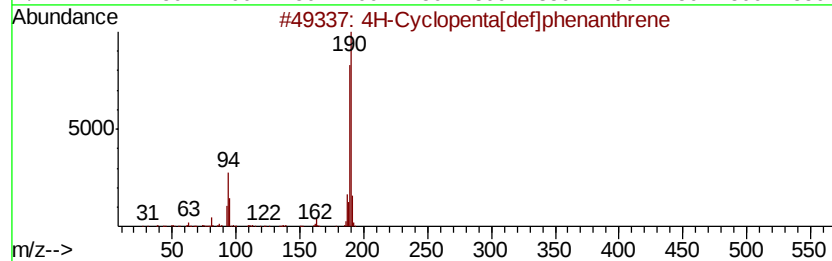
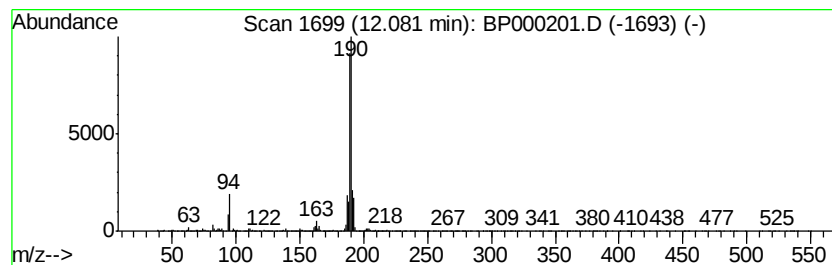
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.08 | 2.72 ng/ul | 422923 | Phenanthrene-d10 | 11.45 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 93   |
| 2    |    | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 76   |
| 3    |    | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5 | 68   |
| 4    |    | 6H-Cyclobuta[flk]phenanthrene       | 190 | C15H10   | 083469-43-6 | 50   |
| 5    |    | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

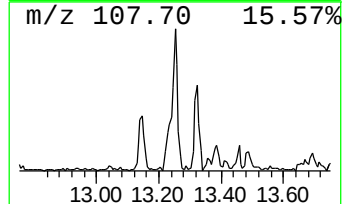
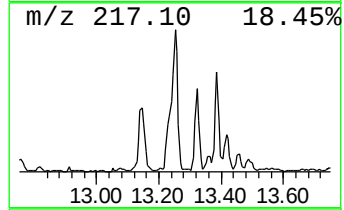
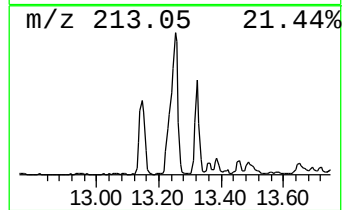
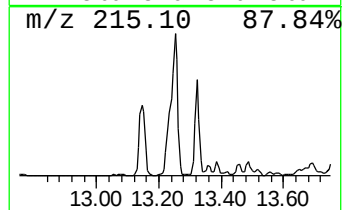
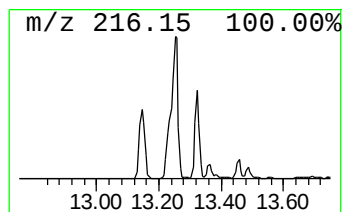
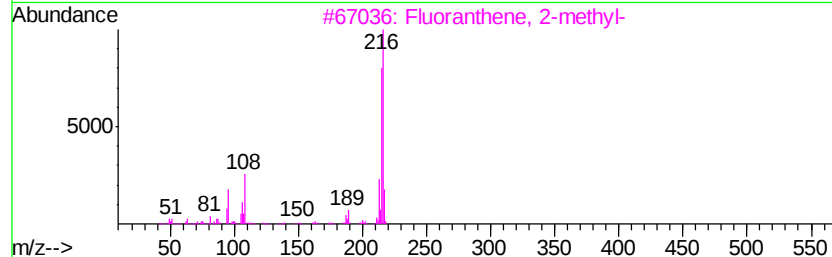
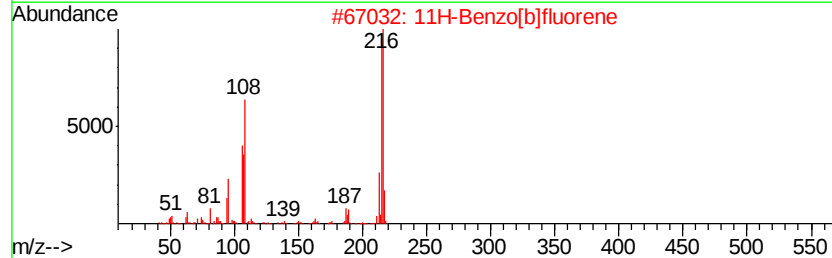
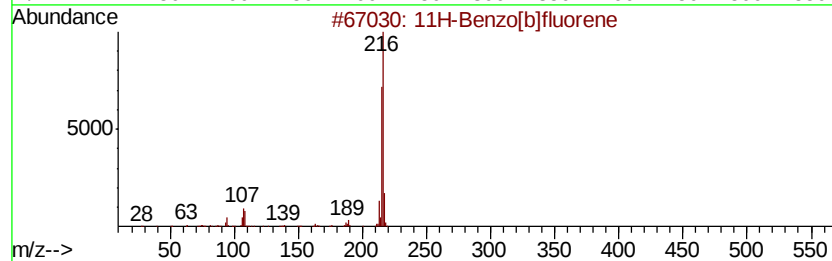
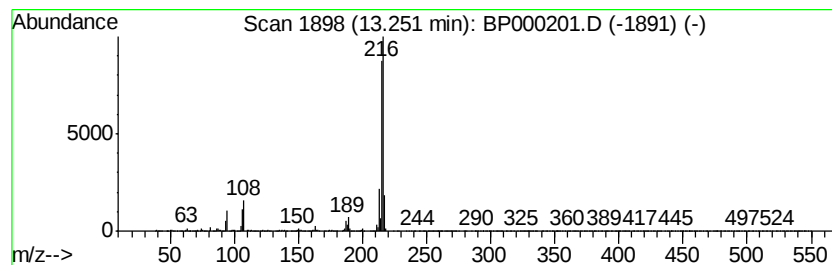
Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 11H-Benzo[b]fluorene Concentration Rank 10

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------|--------------|------------------|-----------|
| 13.25   | 2.53 ng/ul              | 931450       | Chrysene-d12     | 14.15     |
| Hit# of | 5                       | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 11H-Benzo[b]fluorene    | 216 C17H12   | 000243-17-4      | 94        |
| 2       | 11H-Benzo[b]fluorene    | 216 C17H12   | 000243-17-4      | 91        |
| 3       | Fluoranthene, 2-methyl- | 216 C17H12   | 033543-31-6      | 91        |
| 4       | 11H-Benzo[b]fluorene    | 216 C17H12   | 000243-17-4      | 91        |
| 5       | 11H-Benzo[a]fluorene    | 216 C17H12   | 000238-84-6      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

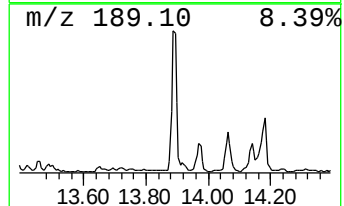
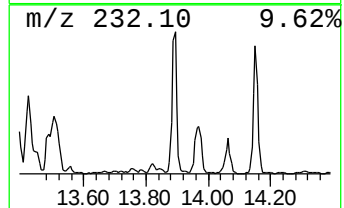
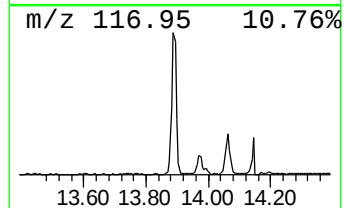
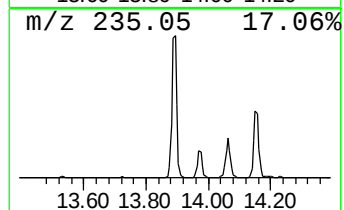
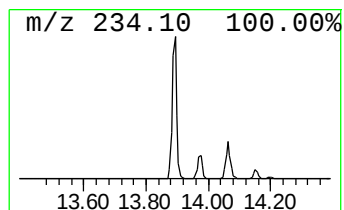
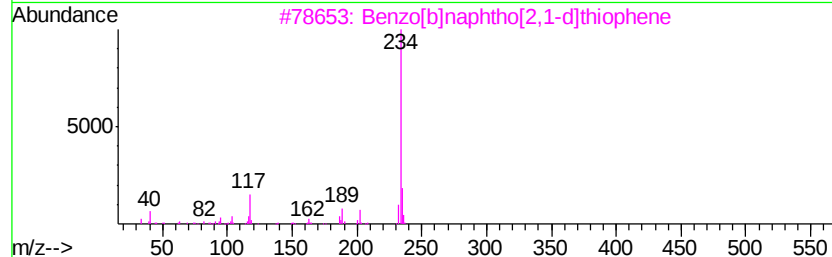
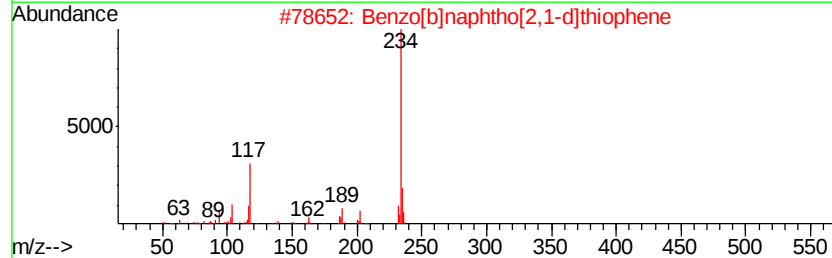
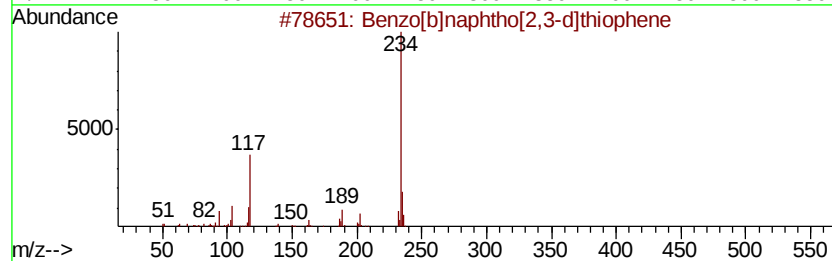
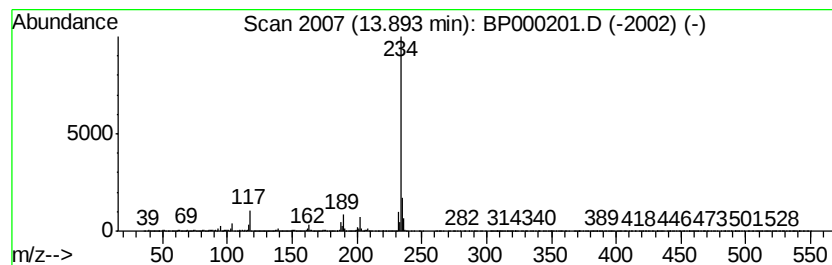
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 7

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 13.89 | 3.25 ng/ul | 1194370 | Chrysene-d12     | 14.15 |

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

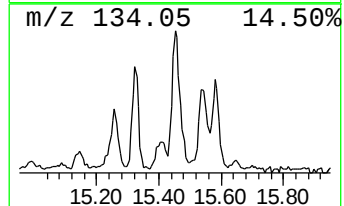
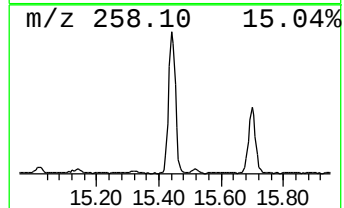
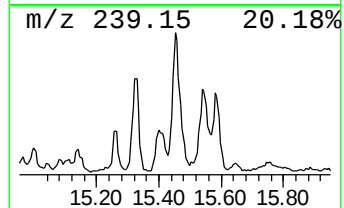
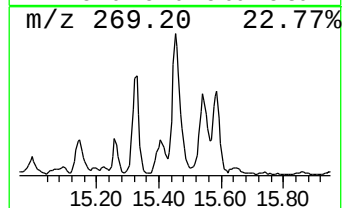
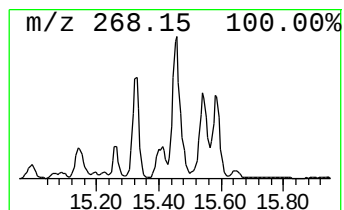
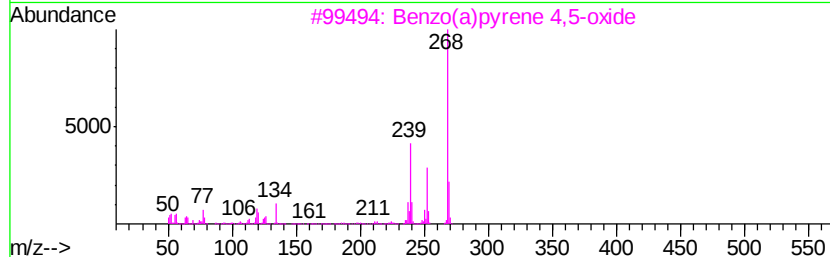
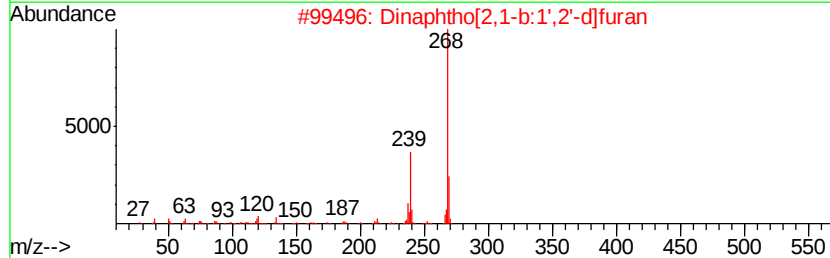
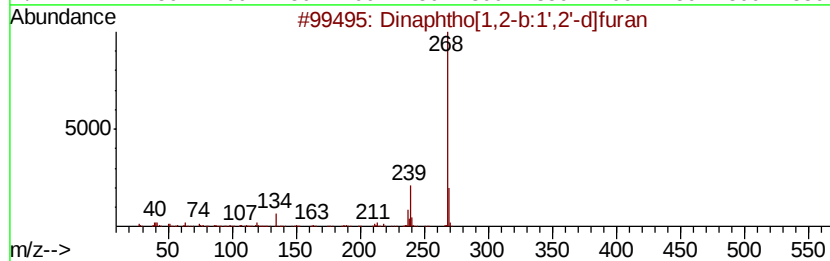
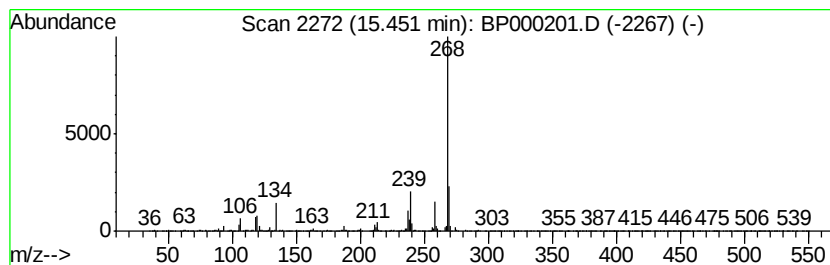
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.45 | 5.22 ng/ul | 714643 | Perylene-d12     | 15.70 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Dinaphtho[1,2-b:1',2'-d]furan       | 268 | C20H12O  | 000207-93-2 | 87   |
| 2    |    | Dinaphtho[2,1-b:1',2'-d]furan       | 268 | C20H12O  | 000194-63-8 | 72   |
| 3    |    | Benzo(a)pyrene 4,5-oxide            | 268 | C20H12O  | 037574-47-3 | 64   |
| 4    |    | 4H-1-Benzopyran-4-one, 5-hydroxy... | 268 | C16H12O4 | 000520-28-5 | 59   |
| 5    |    | 10-Hydroxy-5-methoxy-2-methyl-1,... | 268 | C16H12O4 | 084542-45-0 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

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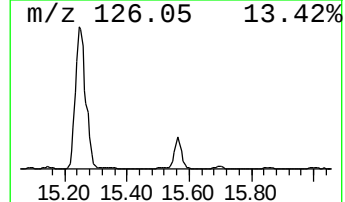
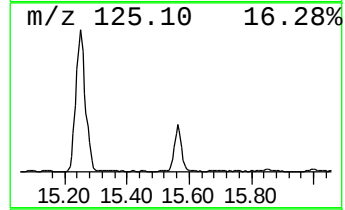
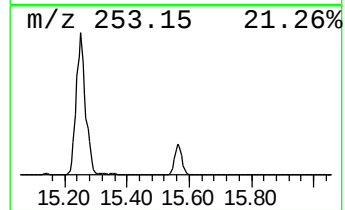
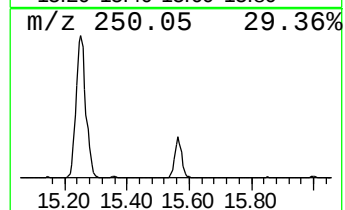
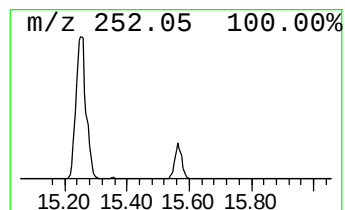
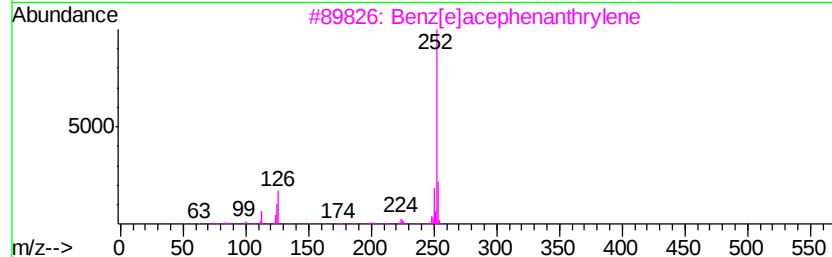
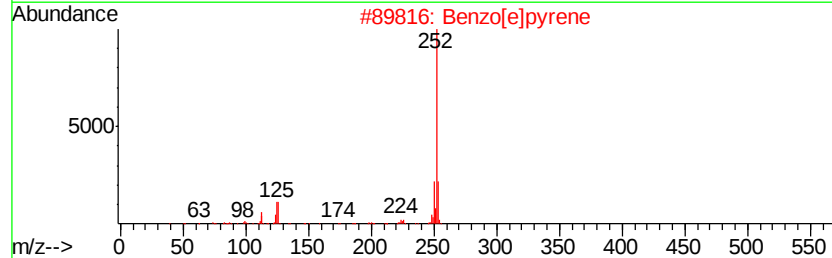
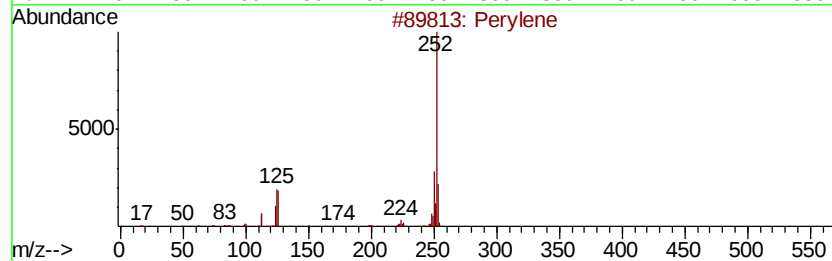
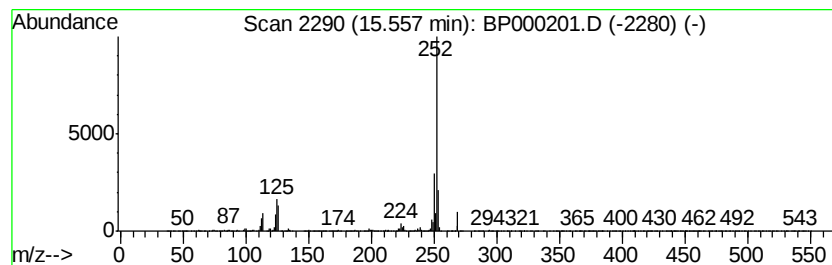
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Perylene Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 15.56 | 19.29 ng/ul | 2642730 | Perylene-d12     | 15.70 |

| Hit# of | 5                          | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------------|--------------|-----|---------|-------------|------|
| 1       | Perylene                   |              | 252 | C20H12  | 000198-55-0 | 99   |
| 2       | Benzo[el]pyrene            |              | 252 | C20H12  | 000192-97-2 | 99   |
| 3       | Benzo[el]acephenanthrylene |              | 252 | C20H12  | 000205-99-2 | 98   |
| 4       | Benzo[al]pyrene            |              | 252 | C20H12  | 000050-32-8 | 96   |
| 5       | Benz[e]acephenanthrylene   |              | 252 | C20H12  | 000205-99-2 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

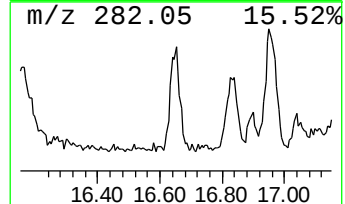
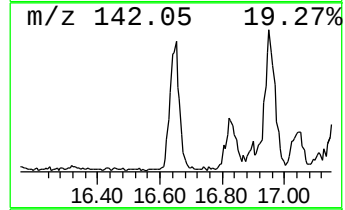
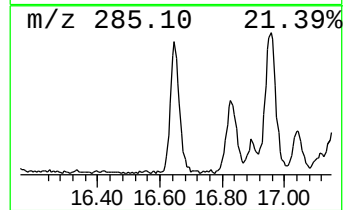
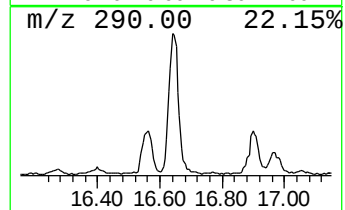
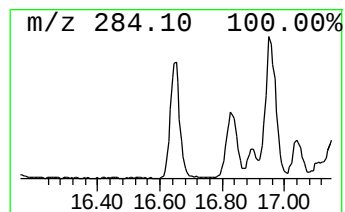
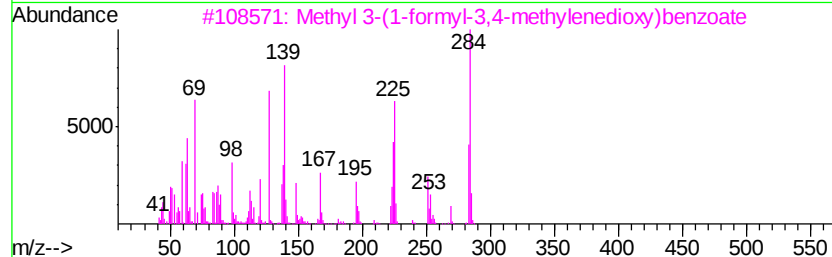
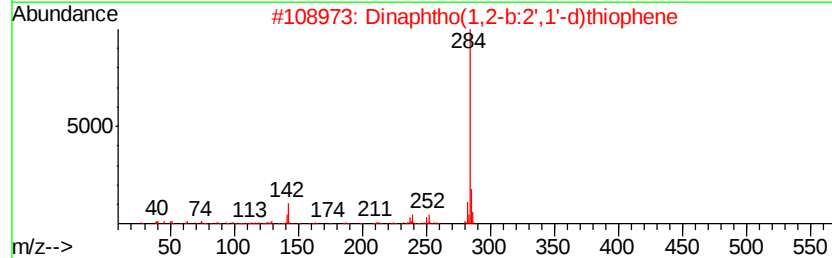
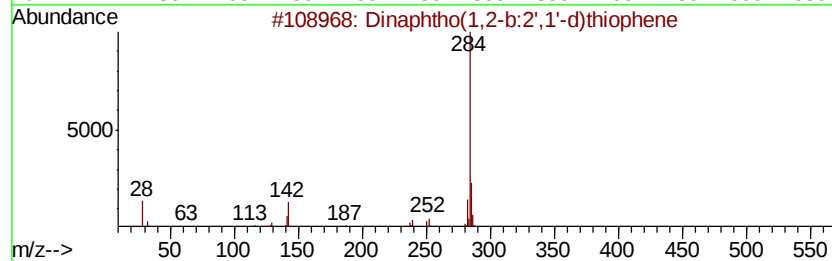
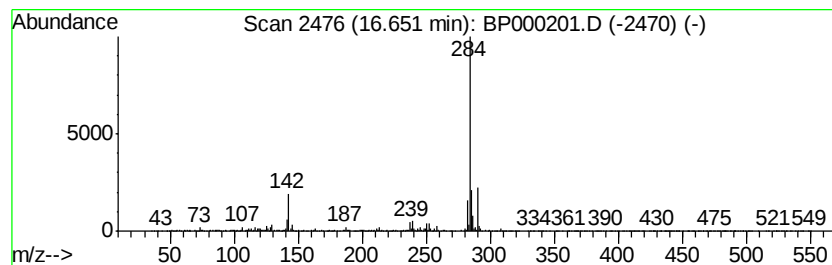
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Dinaphtho(1,2-b:2',1'-d)thi... Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.65 | 2.70 ng/ul | 370018 | Perylene-d12     | 15.70 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Dinaphtho(1,2-b:2',1'-d)thiophene   | 284 | C20H12S  | 000239-72-5  | 92   |
| 2    |    | Dinaphtho(1,2-b:2',1'-d)thiophene   | 284 | C20H12S  | 000239-72-5  | 89   |
| 3    |    | Methyl 3-(1-formyl-3,4-methylene... | 284 | C16H12O5 | 1000111-65-9 | 86   |
| 4    |    | Dinaphtho[1,2-b:1',2'-d]thiophene   | 284 | C20H12S  | 000207-94-3  | 59   |
| 5    |    | Dinaphtho[1,2-b:1',2'-d]thiophene   | 284 | C20H12S  | 000207-94-3  | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

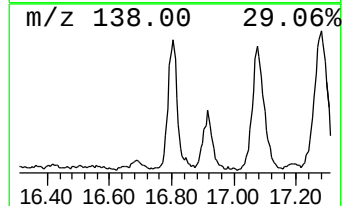
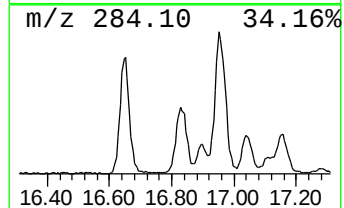
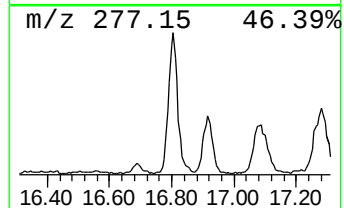
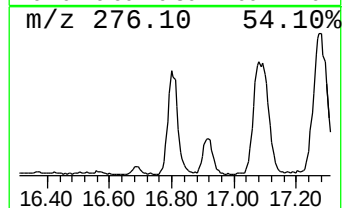
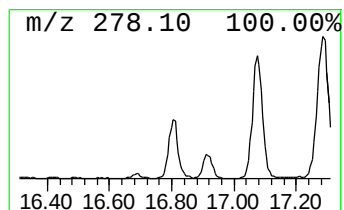
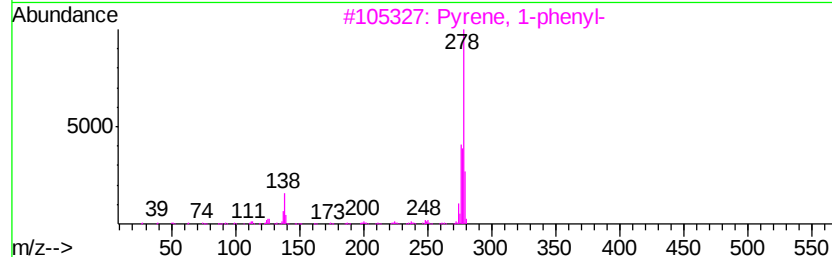
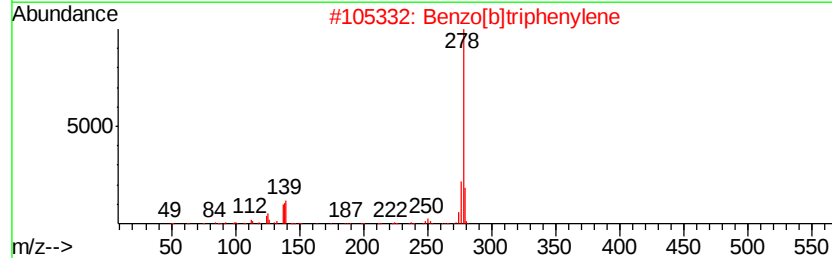
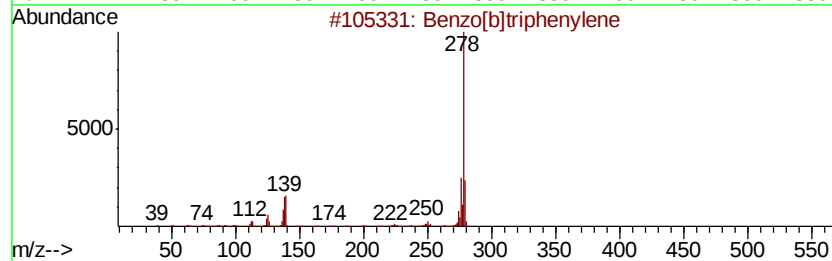
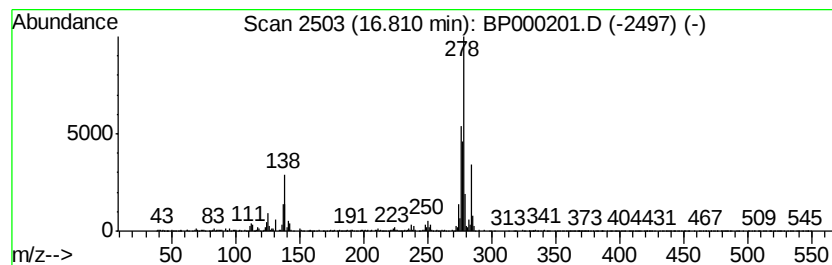
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Benzo[b]triphenylene Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.81 | 3.32 ng/ul | 454349 | Perylene-d12     | 15.70 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[b]triphenylene | 278 | C22H14  | 000215-58-7 | 95   |
| 2    |    |   | Benzo[b]triphenylene | 278 | C22H14  | 000215-58-7 | 83   |
| 3    |    |   | Pvrene, 1-phenyl-    | 278 | C22H14  | 005101-27-9 | 78   |
| 4    |    |   | Benzo[b]chrysene     | 278 | C22H14  | 000214-17-5 | 46   |
| 5    |    |   | Pentaphene           | 278 | C22H14  | 000222-93-5 | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091019\  
Data File : BP000201.D  
Acq On : 11 Sep 2019 14:18  
Operator : HP/JU  
Sample : K4633-09  
Misc : GCMS CONFIRMATION  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.M  
Quant Title : SVOA CALIBRATION

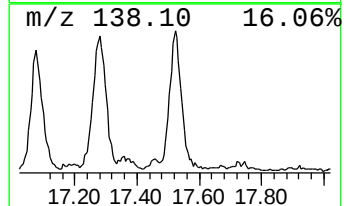
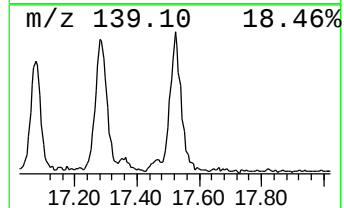
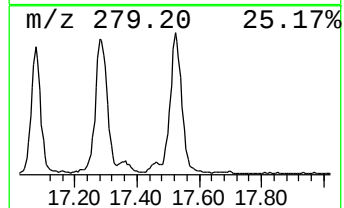
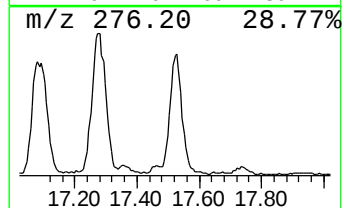
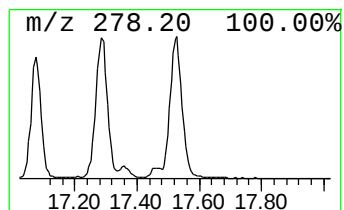
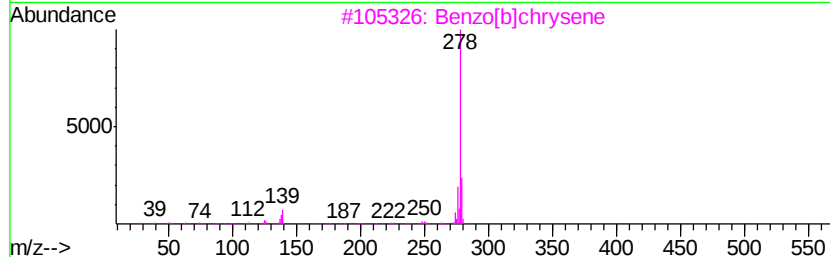
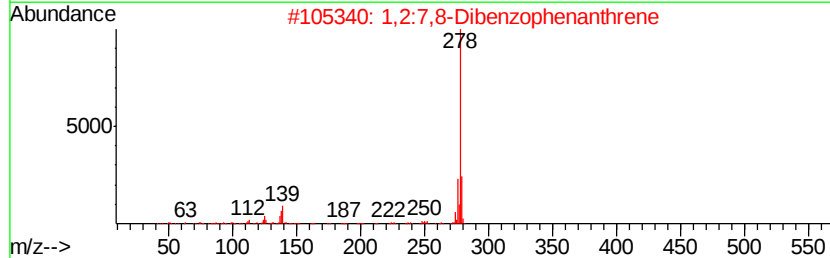
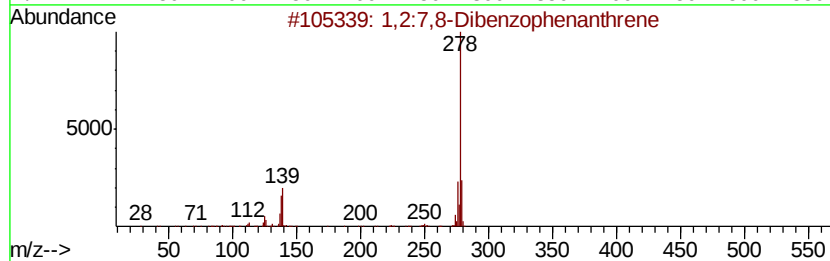
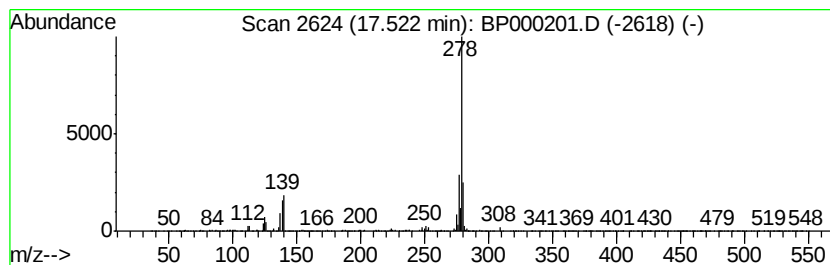
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 1,2:7,8-Dibenzophenanthrene Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.52 | 5.01 ng/ul | 686246 | Perylene-d12     | 15.70 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,2:7,8-Dibenzophenanthrene | 278 | C22H14  | 000213-46-7 | 98   |
| 2    |    | 1,2:7,8-Dibenzophenanthrene | 278 | C22H14  | 000213-46-7 | 98   |
| 3    |    | Benzo[b]chrysene            | 278 | C22H14  | 000214-17-5 | 98   |
| 4    |    | Benzo[b]triphenylene        | 278 | C22H14  | 000215-58-7 | 98   |
| 5    |    | Benzo[b]triphenylene        | 278 | C22H14  | 000215-58-7 | 98   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_P\DATA\BP091019\  
 Data File : BP000201.D  
 Acq On : 11 Sep 2019 14:18  
 Operator : HP/JU  
 Sample : K4633-09  
 Misc : GCMS CONFIRMATION  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP090519MA.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 |
| (DEL) Alkane: Cyc... | 2.22  | 2.3     | ng/ul | 184941   | 1                     | 6.89  | 1646890 | 20.0 |
| (DEL) Alkane: Str... | 2.40  | 2.3     | ng/ul | 191499   | 1                     | 6.89  | 1646890 | 20.0 |
| (DEL) Alkane: Str... | 2.60  | 6.5     | ng/ul | 538388   | 1                     | 6.89  | 1646890 | 20.0 |
| 4H-Cyclopenta[def... | 12.08 | 2.7     | ng/ul | 422923   | 4                     | 11.45 | 3105720 | 20.0 |
| 11H-Benzo[b]fluorene | 13.25 | 2.5     | ng/ul | 931450   | 5                     | 14.15 | 7353060 | 20.0 |
| Benzo[b]naphtho[2... | 13.89 | 3.3     | ng/ul | 1194370  | 5                     | 14.15 | 7353060 | 20.0 |
| Dinaphtho[1,2-b:1... | 15.45 | 5.2     | ng/ul | 714643   | 6                     | 15.70 | 2740080 | 20.0 |
| Perylene             | 15.56 | 19.3    | ng/ul | 2642730  | 6                     | 15.70 | 2740080 | 20.0 |
| Dinaphtho(1,2-b:2... | 16.65 | 2.7     | ng/ul | 370018   | 6                     | 15.70 | 2740080 | 20.0 |
| Benzo[b]triphenylene | 16.81 | 3.3     | ng/ul | 454349   | 6                     | 15.70 | 2740080 | 20.0 |
| 1,2:7,8-Dibenzoph... | 17.52 | 5.0     | ng/ul | 686246   | 6                     | 15.70 | 2740080 | 20.0 |