

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM032319\  
 Data File : BM019348.D  
 Acq On : 23 Mar 2019 12:45  
 Operator : JU/SJ  
 Sample : K2027-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0992

## 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-BM032219MA.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      | 3.152    | 26         | 28       | 36        | rVB2  | 26574       | 33862      | 0.86%        | 0.106%     |
| 2      | 4.222    | 208        | 210      | 213       | rBV4  | 5541        | 7475       | 0.19%        | 0.023%     |
| 3      | 4.952    | 332        | 334      | 340       | rVB4  | 3396        | 5322       | 0.14%        | 0.017%     |
| 4      | 5.210    | 375        | 378      | 382       | rBV3  | 3493        | 4749       | 0.12%        | 0.015%     |
| 5      | 6.693    | 628        | 630      | 634       | rVB3  | 4430        | 5369       | 0.14%        | 0.017%     |
| 6      | 6.798    | 643        | 648      | 660       | rBV   | 87308       | 195219     | 4.95%        | 0.608%     |
| 7      | 6.963    | 670        | 676      | 698       | rBV   | 374791      | 683043     | 17.33%       | 2.129%     |
| 8      | 7.146    | 701        | 707      | 719       | rBV   | 407011      | 695130     | 17.63%       | 2.166%     |
| 9      | 7.610    | 779        | 786      | 795       | rBV   | 429510      | 736678     | 18.69%       | 2.296%     |
| 10     | 7.675    | 795        | 797      | 809       | rVB3  | 13794       | 25992      | 0.66%        | 0.081%     |
| 11     | 8.328    | 902        | 908      | 924       | rBV   | 269912      | 514580     | 13.05%       | 1.604%     |
| 12     | 8.463    | 927        | 931      | 937       | rVB4  | 6874        | 11217      | 0.28%        | 0.035%     |
| 13     | 8.710    | 968        | 973      | 979       | rVV   | 72735       | 126278     | 3.20%        | 0.394%     |
| 14     | 8.781    | 979        | 985      | 994       | rVV   | 445639      | 792721     | 20.11%       | 2.470%     |
| 15     | 8.857    | 994        | 998      | 1003      | rVV2  | 15880       | 36268      | 0.92%        | 0.113%     |
| 16     | 8.934    | 1007       | 1011     | 1016      | rVB6  | 9290        | 17007      | 0.43%        | 0.053%     |
| 17     | 9.110    | 1033       | 1041     | 1049      | rBV2  | 17079       | 27720      | 0.70%        | 0.086%     |
| 18     | 9.498    | 1100       | 1107     | 1120      | rBV   | 350873      | 645938     | 16.39%       | 2.013%     |
| 19     | 10.028   | 1191       | 1197     | 1224      | rBV   | 394948      | 961931     | 24.40%       | 2.998%     |
| 20     | 10.392   | 1243       | 1259     | 1267      | rBV   | 652413      | 1134298    | 28.77%       | 3.535%     |
| 21     | 10.463   | 1268       | 1271     | 1277      | rVB4  | 12503       | 19495      | 0.49%        | 0.061%     |
| 22     | 10.604   | 1290       | 1295     | 1299      | rBV4  | 2929        | 5538       | 0.14%        | 0.017%     |
| 23     | 11.028   | 1363       | 1367     | 1369      | rBV2  | 2943        | 4423       | 0.11%        | 0.014%     |
| 24     | 11.598   | 1457       | 1464     | 1470      | rBV4  | 7535        | 14886      | 0.38%        | 0.046%     |
| 25     | 11.728   | 1479       | 1486     | 1498      | rBV   | 42976       | 109117     | 2.77%        | 0.340%     |
| 26     | 12.016   | 1529       | 1535     | 1541      | rBV2  | 6618        | 15228      | 0.39%        | 0.047%     |
| 27     | 13.116   | 1717       | 1722     | 1727      | rVB3  | 2771        | 4568       | 0.12%        | 0.014%     |
| 28     | 13.216   | 1733       | 1739     | 1755      | rBV   | 104016      | 277990     | 7.05%        | 0.866%     |
| 29     | 13.686   | 1813       | 1819     | 1832      | rVV   | 1115557     | 1659080    | 42.09%       | 5.170%     |
| 30     | 13.963   | 1859       | 1866     | 1882      | rBV   | 1371768     | 1968881    | 49.94%       | 6.136%     |
| 31     | 14.186   | 1900       | 1904     | 1910      | rBV3  | 2644        | 5450       | 0.14%        | 0.017%     |
| 32     | 14.269   | 1912       | 1918     | 1927      | rVV2  | 966720      | 1460528    | 37.05%       | 4.552%     |
| 33     | 14.351   | 1929       | 1932     | 1937      | rVB3  | 12246       | 15888      | 0.40%        | 0.050%     |
| 34     | 14.551   | 1962       | 1966     | 1967      | rBV3  | 12034       | 14816      | 0.38%        | 0.046%     |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 14.951 | 2030 | 2034 | 2045 | rVB2 | 19099   | 29514   | 0.75%   | 0.092%  |
| 36 | 15.104 | 2057 | 2060 | 2065 | rBV3 | 3094    | 5224    | 0.13%   | 0.016%  |
| 37 | 15.269 | 2082 | 2088 | 2105 | rBV  | 1747040 | 2539727 | 64.43%  | 7.915%  |
| 38 | 15.410 | 2107 | 2112 | 2125 | rVV  | 418564  | 675895  | 17.15%  | 2.106%  |
| 39 | 15.516 | 2127 | 2130 | 2133 | rVB4 | 16627   | 21774   | 0.55%   | 0.068%  |
| 40 | 15.663 | 2148 | 2155 | 2159 | rBV3 | 4449    | 7313    | 0.19%   | 0.023%  |
| 41 | 16.057 | 2219 | 2222 | 2227 | rBV4 | 4831    | 6791    | 0.17%   | 0.021%  |
| 42 | 16.821 | 2347 | 2352 | 2357 | rBV4 | 5066    | 7641    | 0.19%   | 0.024%  |
| 43 | 17.027 | 2381 | 2387 | 2397 | rBV  | 1293161 | 1715111 | 43.51%  | 5.345%  |
| 44 | 17.127 | 2398 | 2404 | 2420 | rVV2 | 1849763 | 2811115 | 71.31%  | 8.761%  |
| 45 | 17.692 | 2495 | 2500 | 2505 | rBV2 | 293207  | 345940  | 8.78%   | 1.078%  |
| 46 | 18.174 | 2576 | 2582 | 2583 | rBV3 | 3720    | 4035    | 0.10%   | 0.013%  |
| 47 | 19.074 | 2731 | 2735 | 2741 | rVB2 | 14150   | 22514   | 0.57%   | 0.070%  |
| 48 | 19.327 | 2773 | 2778 | 2782 | rBV3 | 13102   | 20093   | 0.51%   | 0.063%  |
| 49 | 19.433 | 2790 | 2796 | 2811 | rBV  | 2442949 | 3306754 | 83.88%  | 10.305% |
| 50 | 21.233 | 3097 | 3102 | 3115 | rBV  | 1479265 | 2115047 | 53.65%  | 6.591%  |
| 51 | 22.250 | 3273 | 3275 | 3279 | rVB2 | 65409   | 67702   | 1.72%   | 0.211%  |
| 52 | 23.309 | 3448 | 3455 | 3469 | rBV2 | 2194747 | 3942114 | 100.00% | 12.285% |
| 53 | 23.450 | 3473 | 3479 | 3492 | rVB  | 1148561 | 2207489 | 56.00%  | 6.879%  |

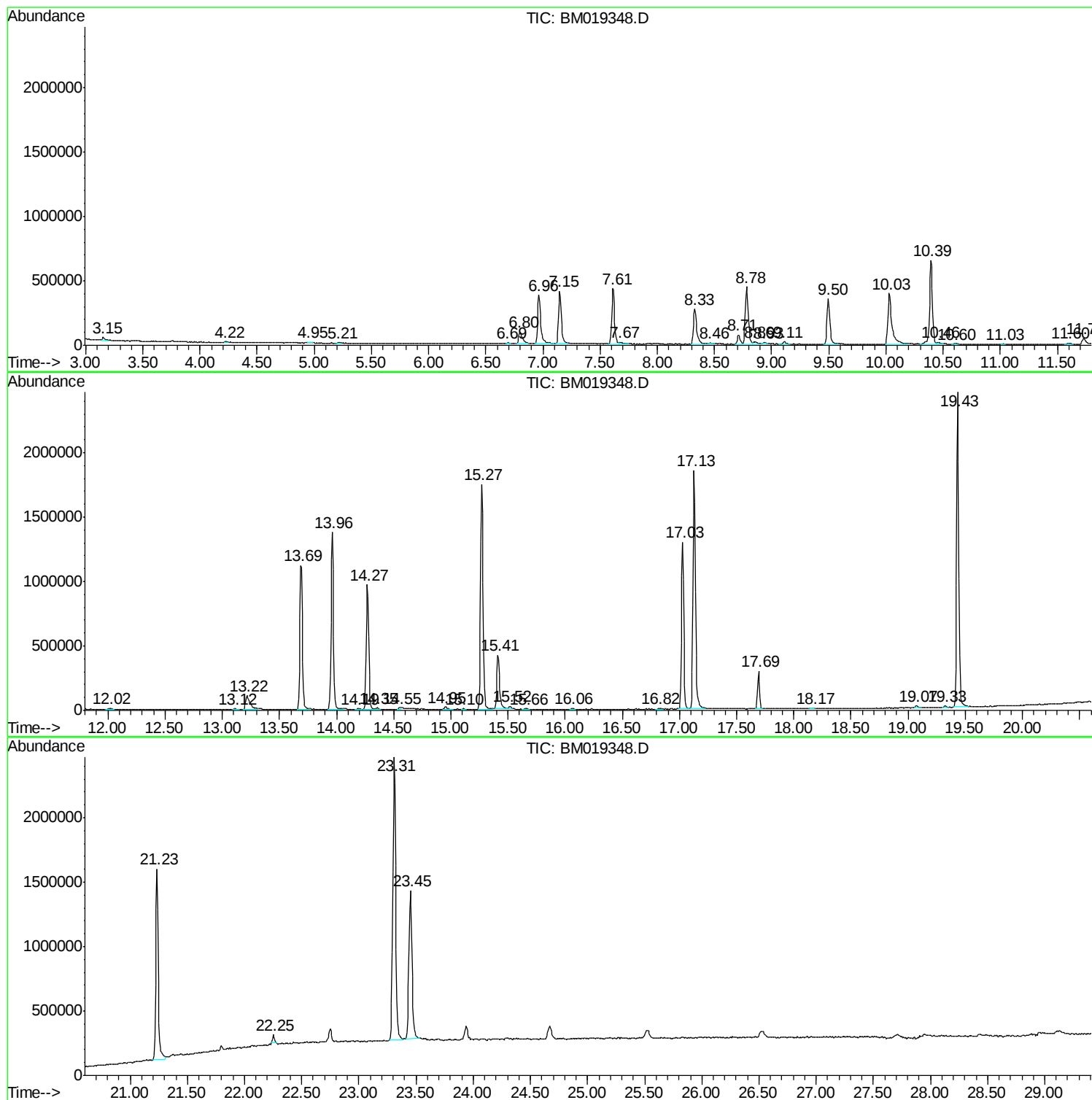
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

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



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Operator : JU/SJ  
Sample : K2027-03  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :  
C0992

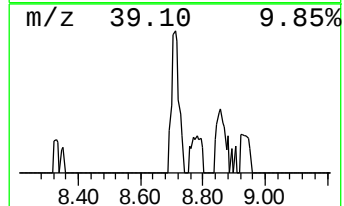
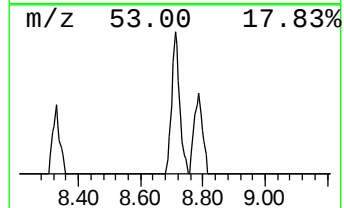
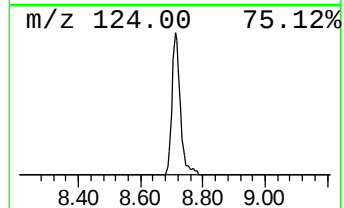
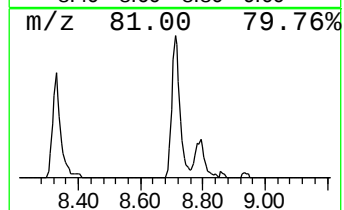
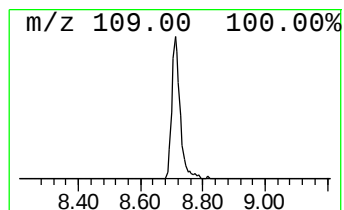
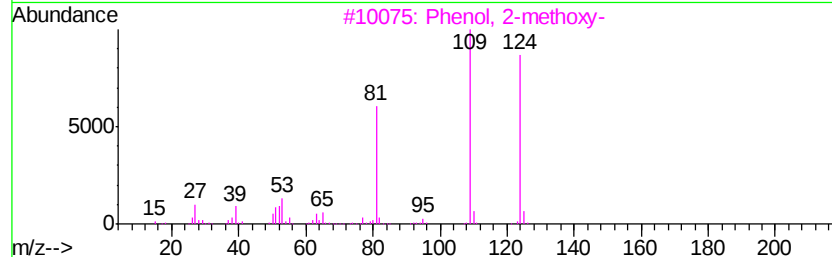
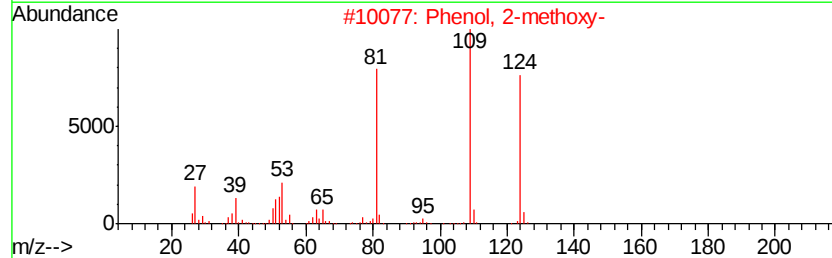
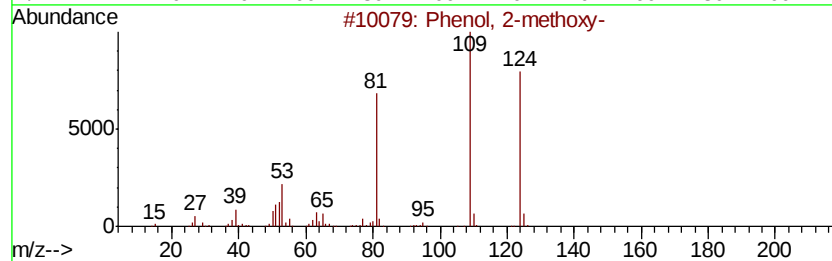
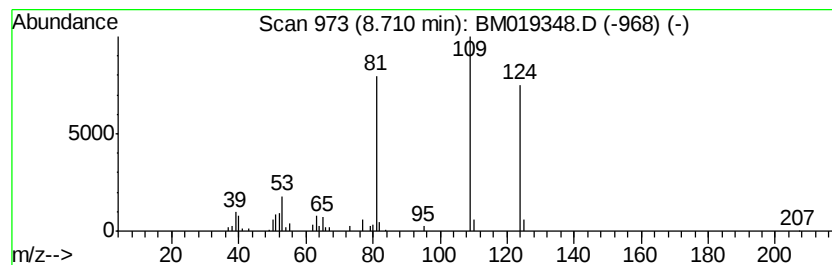
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM032219MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 Phenol, 2-methoxy- Concentration Rank 3

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 8.71 | 3.43 ng/ul | 126278 | 1,4-Dichlorobenzene-d4 | 7.61 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenol, 2-methoxy-                  | 124 | C7H8O2  | 000090-05-1 | 95   |
| 2    |    | Phenol, 2-methoxy-                  | 124 | C7H8O2  | 000090-05-1 | 91   |
| 3    |    | Phenol, 2-methoxy-                  | 124 | C7H8O2  | 000090-05-1 | 91   |
| 4    |    | Mequinol                            | 124 | C7H8O2  | 000150-76-5 | 91   |
| 5    |    | 2-Cyclopenten-1-one, 2,3,4-trime... | 124 | C8H12O  | 028790-86-5 | 90   |



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Quant Title : SVOA CALIBRATION

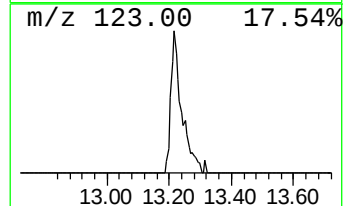
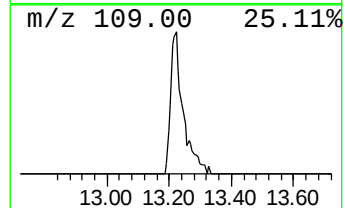
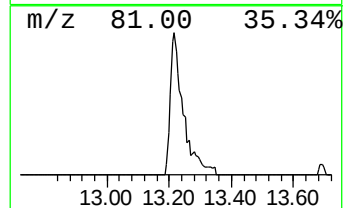
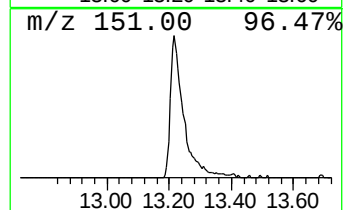
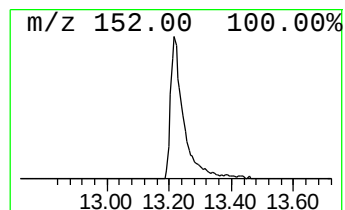
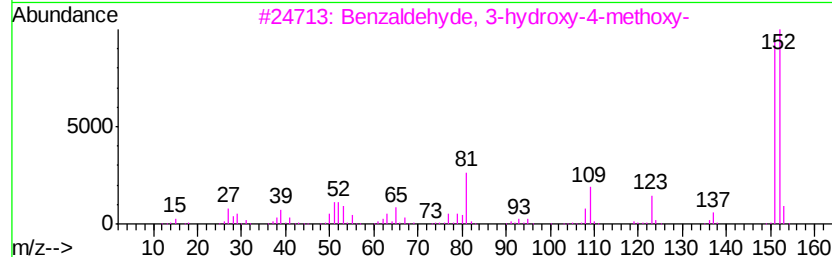
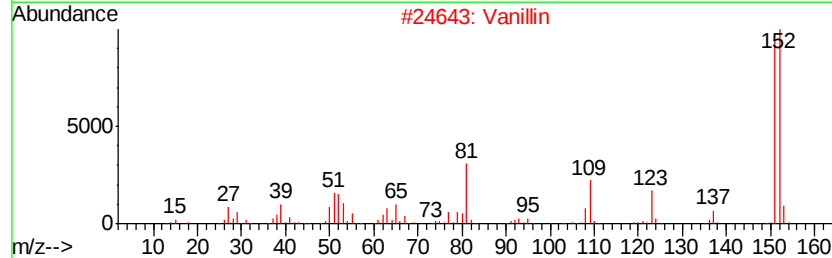
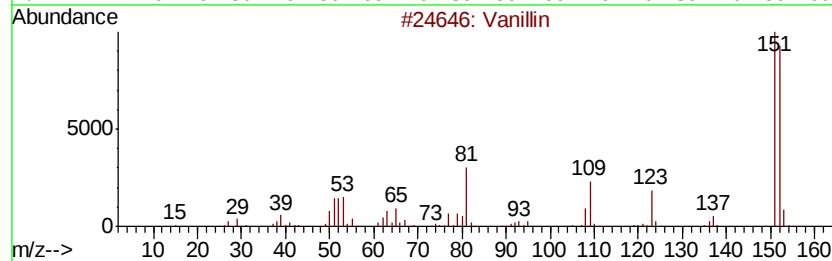
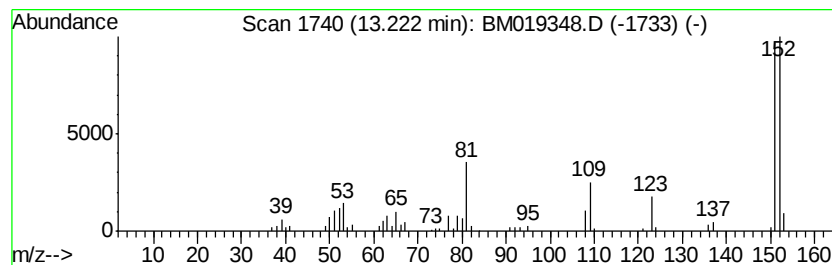
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Vanillin Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 13.22 | 3.81 ng/ul | 277990 | Acenaphthene-d10 | 14.27 |

| Hit# of | 5                                 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------------------------|--------------|-----|---------|-------------|------|
| 1       | Vanillin                          |              | 152 | C8H8O3  | 000121-33-5 | 97   |
| 2       | Vanillin                          |              | 152 | C8H8O3  | 000121-33-5 | 96   |
| 3       | Benzaldehyd, 3-hydroxy-4-methoxy- |              | 152 | C8H8O3  | 000621-59-0 | 96   |
| 4       | Vanillin                          |              | 152 | C8H8O3  | 000121-33-5 | 95   |
| 5       | Vanillin                          |              | 152 | C8H8O3  | 000121-33-5 | 95   |



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Quant Title : SVOA CALIBRATION

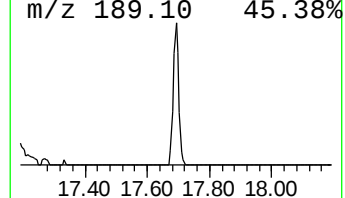
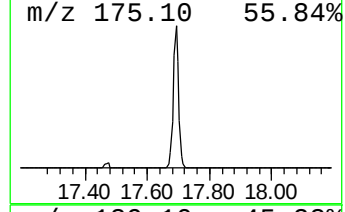
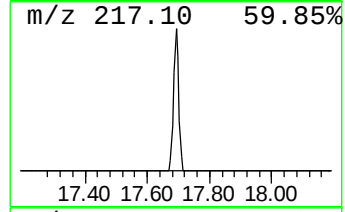
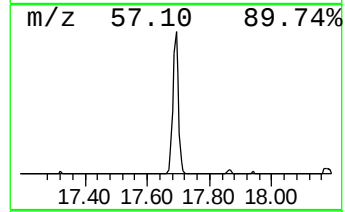
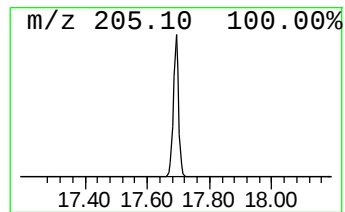
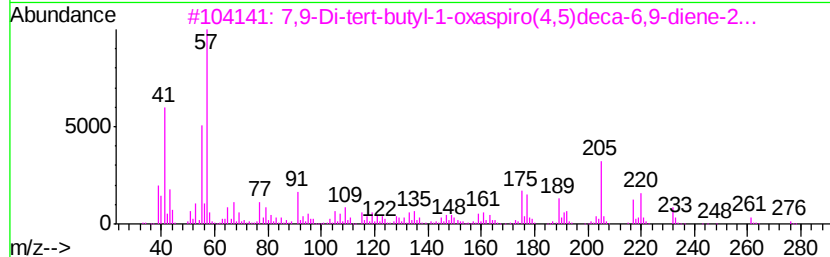
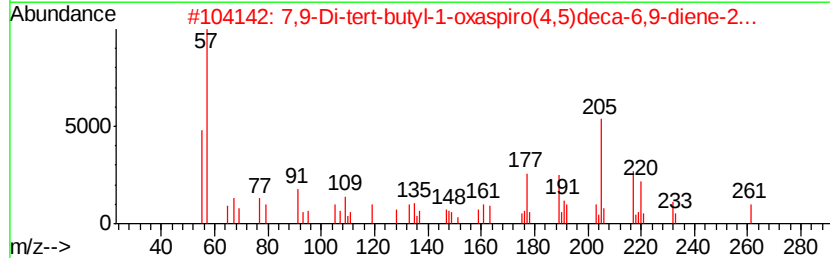
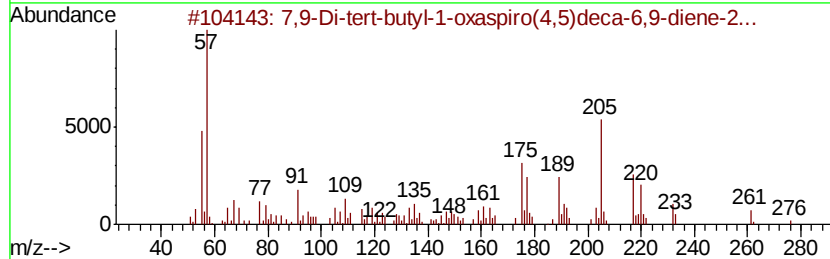
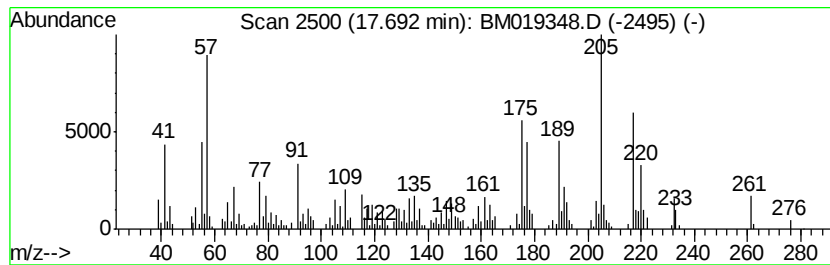
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 7,9-Di-tert-butyl-1-oxaspiro... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.69 | 4.03 ng/ul | 345940 | Phenanthrene-d10 | 17.03 |

| Hit# | of | 5 | Tentative ID                                          | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2-one | 276 | C17H24O3 | 082304-66-3 | 99   |
| 2    |    |   | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2-one | 276 | C17H24O3 | 082304-66-3 | 90   |
| 3    |    |   | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2-one | 276 | C17H24O3 | 082304-66-3 | 90   |
| 4    |    |   | 2,5-Cyclohexadien-1-one, 2,6-bis(4-tert-butylphenyl)- | 232 | C16H24O  | 006738-27-8 | 42   |
| 5    |    |   | 4,6-di-tert-Butyl-m-cresol                            | 220 | C15H24O  | 000497-39-2 | 38   |



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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 |
| Phenol, 2-methoxy-   | 8.71  | 3.4     | ng/ul | 126278   | 1                     | 7.61  | 736678  | 20.0 |
| Vanillin             | 13.22 | 3.8     | ng/ul | 277990   | 3                     | 14.27 | 1460530 | 20.0 |
| 7,9-Di-tert-butyl... | 17.69 | 4.0     | ng/ul | 345940   | 4                     | 17.03 | 1715110 | 20.0 |