

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041319\  
 Data File : VV010326.D  
 Acq On : 13 Apr 2019 18:43  
 Operator : SY/MD  
 Sample : K2297-04MS  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E3YC4MS

Manual Integrations  
 APPROVED

MMDadoda  
 4/16/2019 12:43:17 AM

Quant Time: Apr 14 01:49:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR041319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 13 14:26:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 149893   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 146576   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 67817    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 32538    | 4.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 36724    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 99709    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.60%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 105937   | 52.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.10% |
| 24) Chloroform-d               | 4.40   | 84    | 84729    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 44384    | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 159482   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 49485    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 139516   | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.20%  |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 16685    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 90030    | 58.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 116.44% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 39769    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 61379    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.40% |

## Target Compounds

| Target Compounds       | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|------------------------|------|------|----------|-------|--------|--------|
| 12) 1,1-Dichloroethene | 2.14 | 96   | 60346    | 4.936 | ug/L   | 86     |
| 13) Acetone            | 2.19 | 43   | 8740m    | 5.102 | ug/L   |        |
| 19) 1,1-Dichloroethane | 3.23 | 63   | 2611     | 0.112 | ug/L # | 83     |
| 33) Benzene            | 5.15 | 78   | 206872   | 5.031 | ug/L   | 100    |
| 34) Trichloroethene    | 5.96 | 95   | 57258    | 4.822 | ug/L   | 94     |
| 42) Toluene            | 7.43 | 91   | 226789   | 4.934 | ug/L   | 96     |
| 51) Chlorobenzene      | 8.93 | 112  | 158334   | 5.104 | ug/L   | 96     |
| 53) m,p-xylene         | 9.19 | 106  | 4490     | 0.231 | ug/L   | 90     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

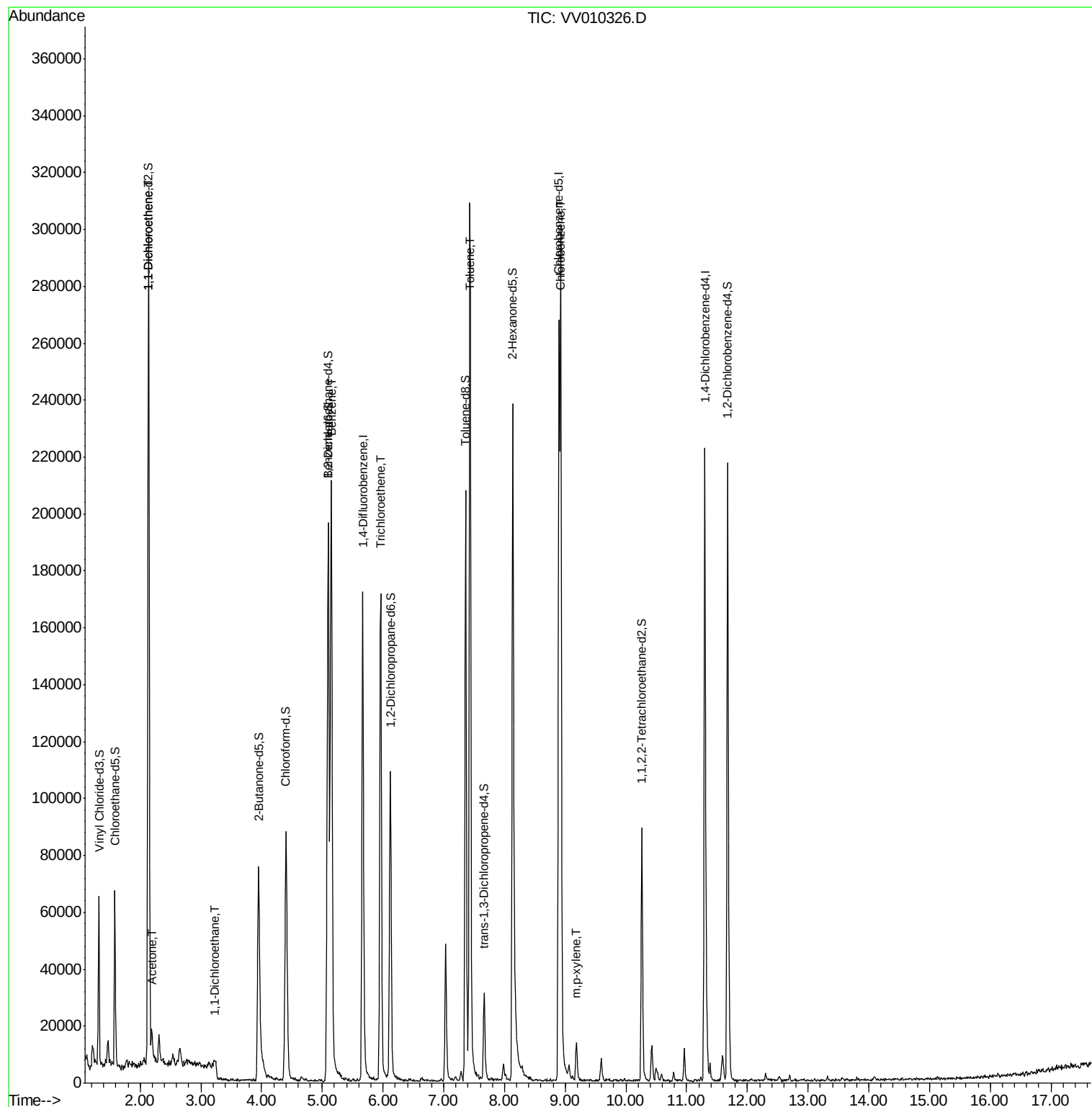
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV041319\  
Data File : VV010326.D  
Acq On : 13 Apr 2019 18:43  
Operator : SY/MD  
Sample : K2297-04MS  
Misc : 25mL/MSVOA V/WATER  
ALS Vial : 11 Sample Multiplier: 1

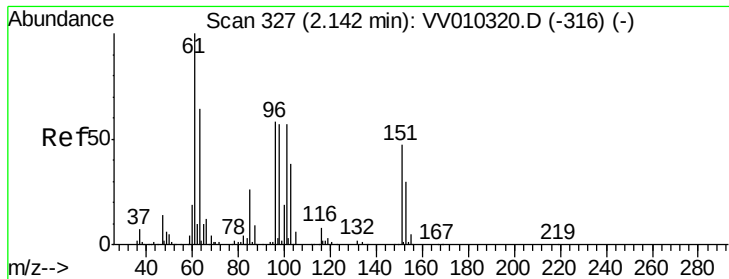
Instrument :  
MSVOA\_V  
ClientSampleId :  
E3YC4MS

Manual Integrations  
APPROVED

MMDadoda  
4/16/2019 12:43:17 AM

Quant Time: Apr 14 01:49:52 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR041319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Apr 13 14:26:57 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 4.936 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV010326.D

Acq: 13 Apr 2019 18:43

Instrument :

MSVOA\_V

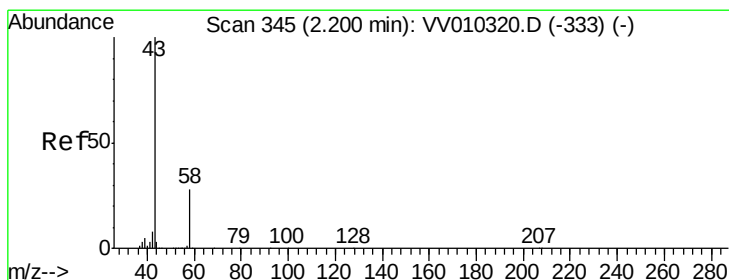
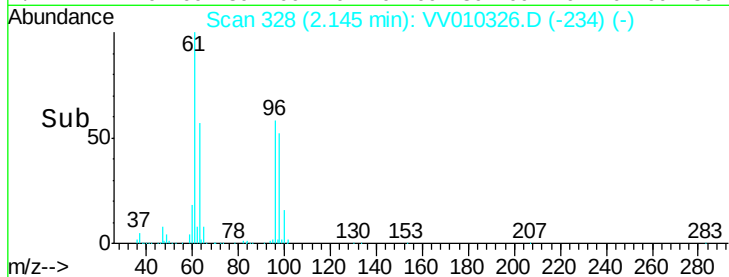
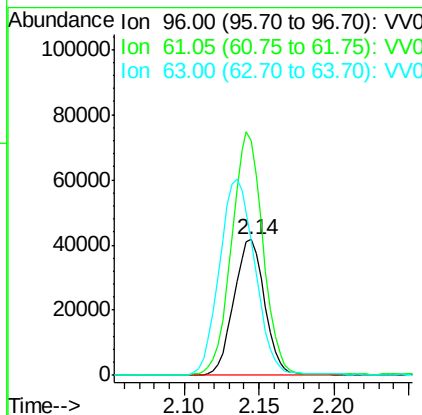
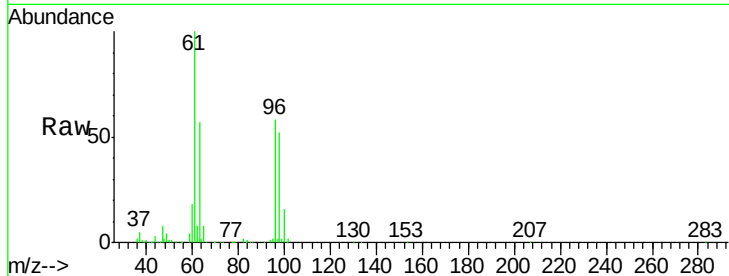
ClientSampleId :

E3YC4MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 60346 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 172.4 | 127.1 | 236.0 |
| 63       | 98.8  | 88.8  | 164.8 |

Manual Integrations  
APPROVED

MMDadoda  
4/16/2019 12:43:17 AM



#13

Acetone

Concen: 5.102 ug/L m

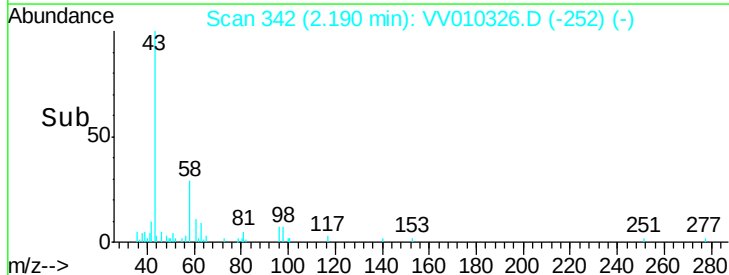
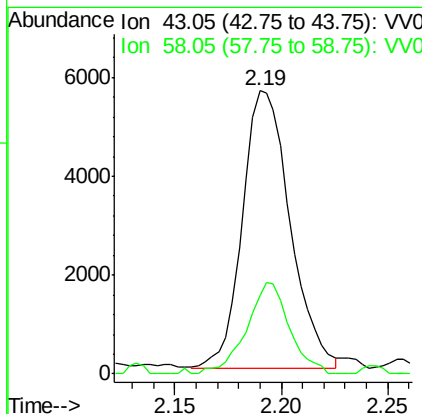
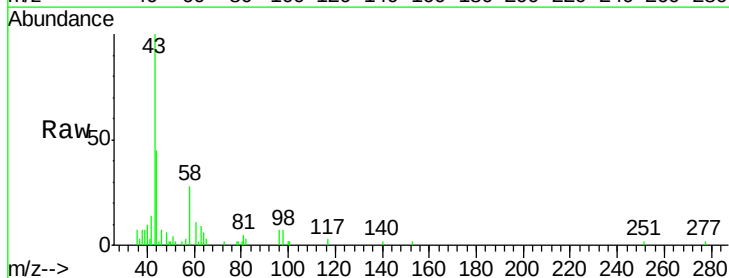
RT: 2.19 min Scan# 342

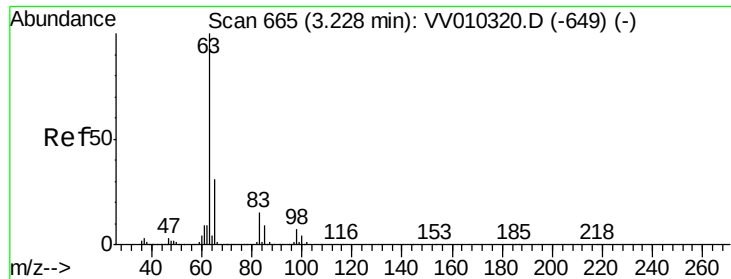
Delta R.T. -0.01 min

Lab File: VV010326.D

Acq: 13 Apr 2019 18:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8740  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 2.5   | 0.0   | 23.0  |





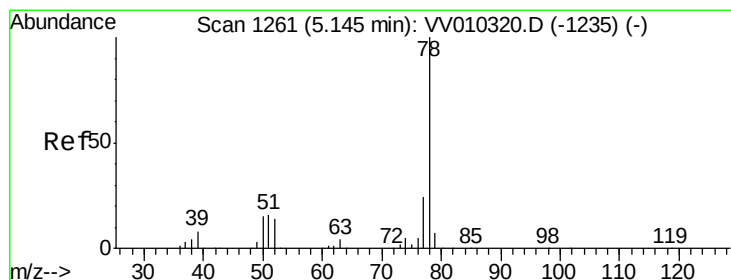
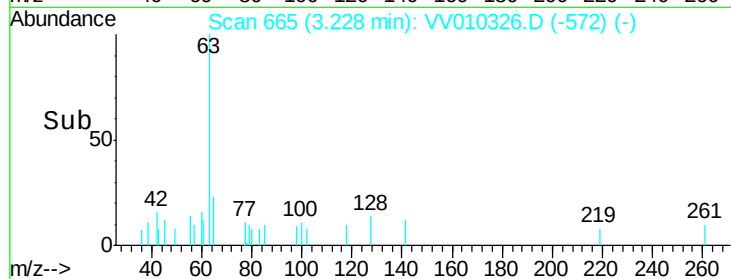
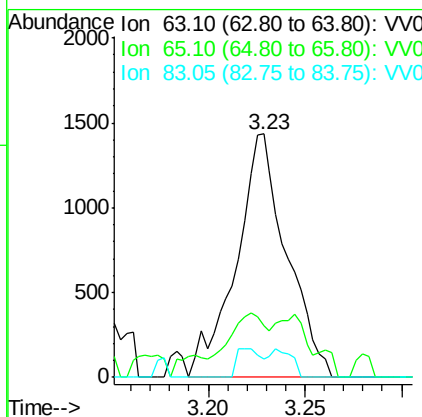
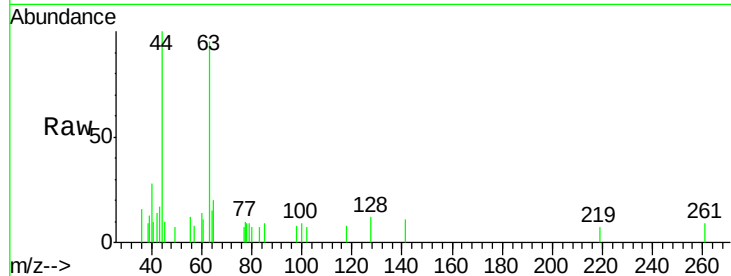
#19  
 1,1-Dichloroethane  
 Concen: 0.112 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.00 min  
 Lab File: VV010326.D  
 Acq: 13 Apr 2019 18:43

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E3YC4MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 21.2  | 21.3  | 39.5# |
| 83      | 7.6   | 9.9   | 18.5# |

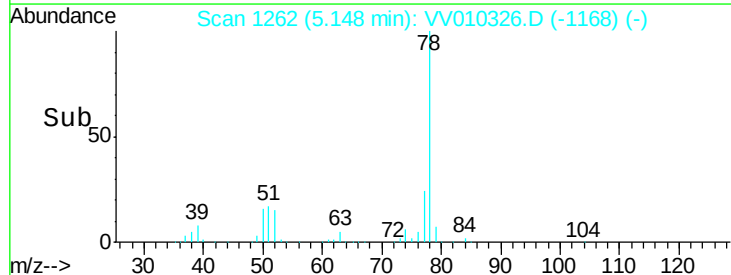
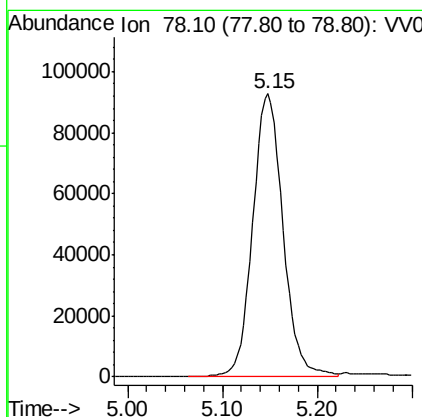
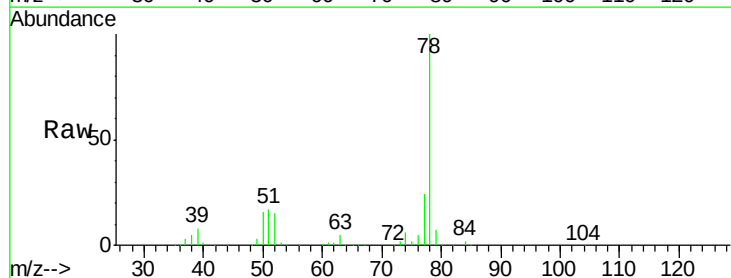
Manual Integrations  
 APPROVED

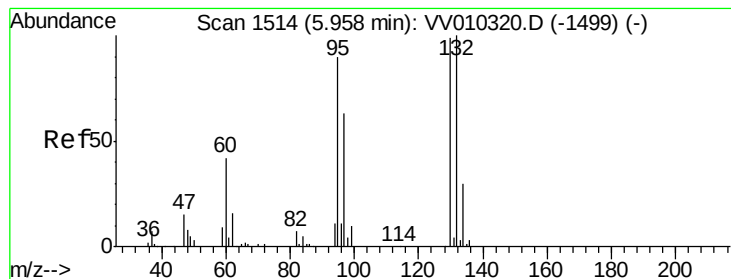
MMDadoda  
 4/16/2019 12:43:17 AM



#33  
 Benzene  
 Concen: 5.031 ug/L  
 RT: 5.15 min Scan# 1262  
 Delta R.T. 0.00 min  
 Lab File: VV010326.D  
 Acq: 13 Apr 2019 18:43

Tgt Ion: 78 Resp: 206872





#34

Trichloroethene

Concen: 4.822 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV010326.D

Acq: 13 Apr 2019 18:43

Instrument :

MSVOA\_V

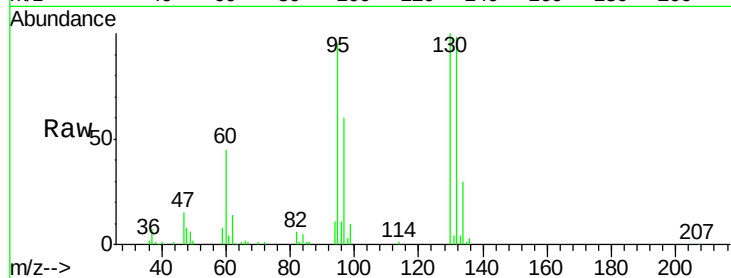
ClientSampleId :

E3YC4MS

| Tot Ion | 95    | Resp  | 57258 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 95      | 100   |       |       |
| 97      | 63.2  | 44.4  | 82.5  |
| 132     | 102.8 | 66.4  | 123.4 |
| 130     | 105.2 | 68.1  | 126.5 |

Manual Integrations  
APPROVED

MMDadoda  
4/16/2019 12:43:17 AM

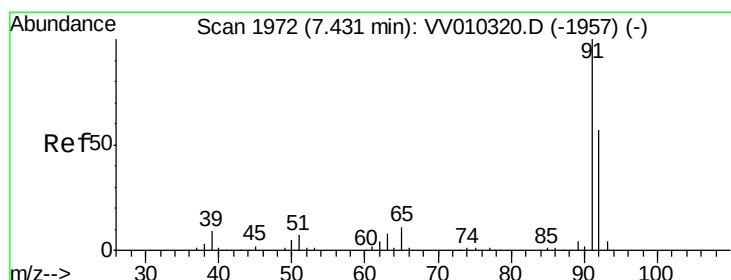
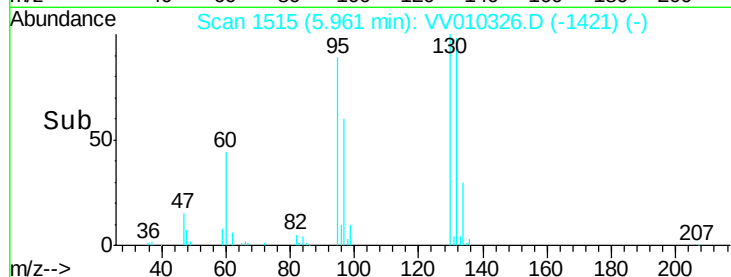
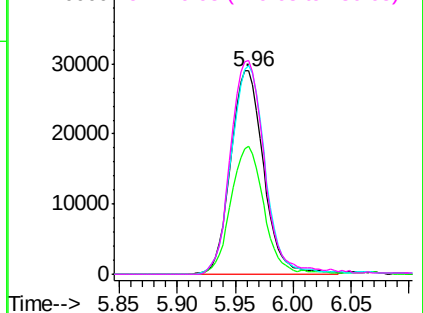


Abundance Ion 95.00 (94.70 to 95.70): VV010326.D (-1499) (-)

Ion 96.95 (96.65 to 97.65): VV010326.D (-1499) (-)

Ion 131.95 (131.65 to 132.65): VV010326.D (-1499) (-)

Ion 129.95 (129.65 to 130.65): VV010326.D (-1499) (-)



#42

Toluene

Concen: 4.934 ug/L

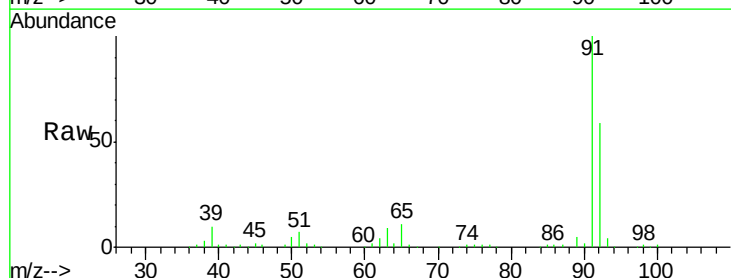
RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010326.D

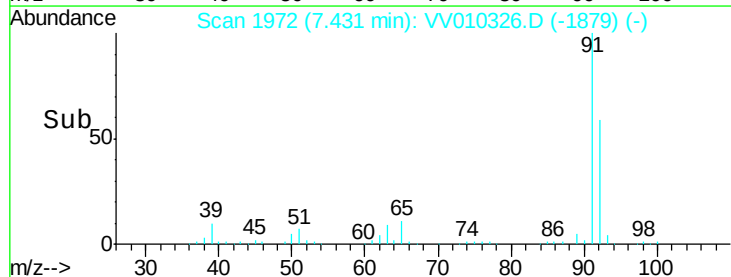
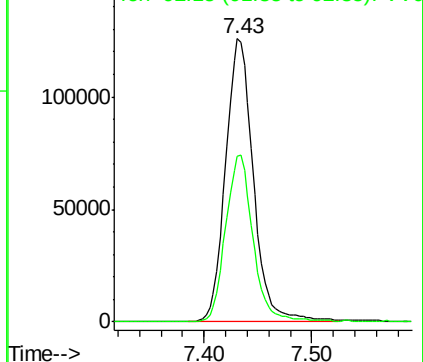
Acq: 13 Apr 2019 18:43

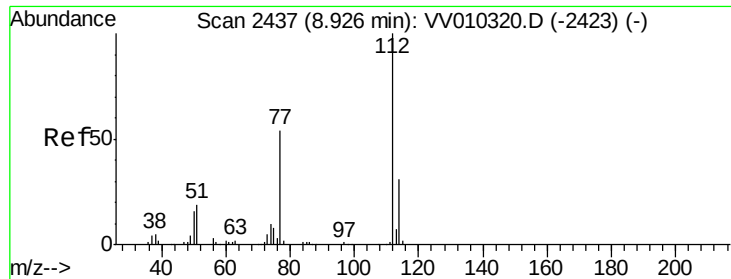
| Tgt Ion | 91    | Resp  | 226789 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 91      | 100   |       |        |
| 92      | 58.5  | 39.1  | 72.5   |



Abundance Ion 91.15 (90.85 to 91.85): VV010326.D (-1879) (-)

Ion 92.15 (91.85 to 92.85): VV010326.D (-1879) (-)





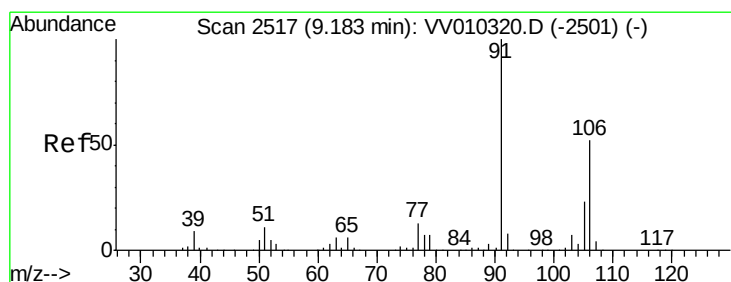
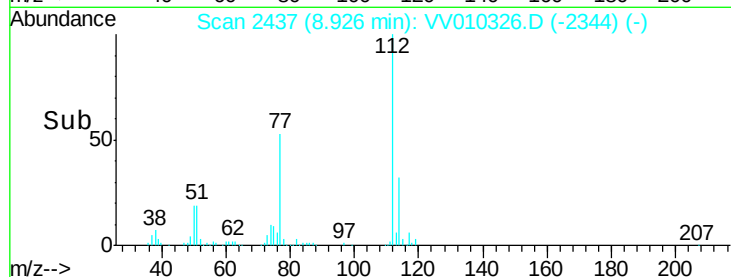
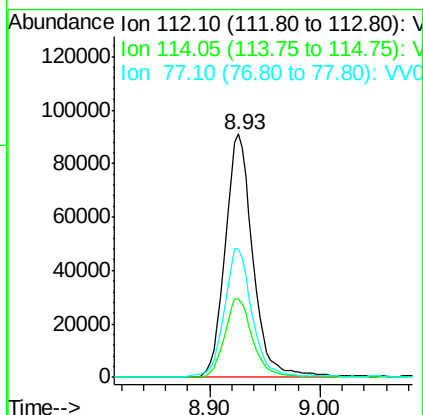
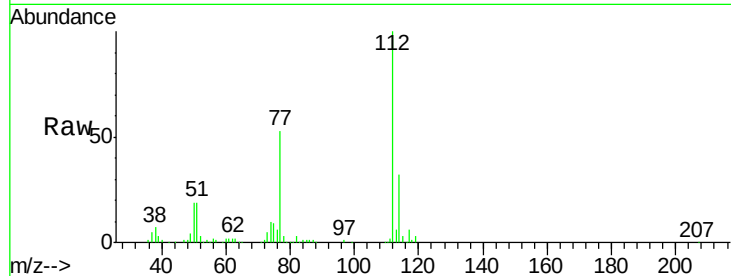
#51  
Chlorobenzene  
Concen: 5.104 ug/L  
RT: 8.93 min Scan# 2437  
Delta R.T. 0.00 min  
Lab File: VV010326.D  
Acq: 13 Apr 2019 18:43

Instrument :  
MSVOA\_V  
ClientSampleId :  
E3YC4MS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 158334 |       |       |
| 114     | 32.3  | 21.8   | 40.4  |       |
| 77      | 53.0  | 45.0   | 67.4  |       |

Manual Integrations  
APPROVED

MMDadoda  
4/16/2019 12:43:17 AM



#53  
m,p-xylene  
Concen: 0.231 ug/L  
RT: 9.19 min Scan# 2518  
Delta R.T. 0.00 min  
Lab File: VV010326.D  
Acq: 13 Apr 2019 18:43

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 106     | 100   | 4490  |       |       |
| 91      | 188.5 | 143.2 | 266.0 |       |

