

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032519\  
 Data File : VW009447.D  
 Acq On : 26 Mar 2019 00:24  
 Operator : SY/VA  
 Sample : K2044-15  
 Misc : 4.98G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Mar 26 09:06:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Mar 26 09:00:24 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 394458   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 335427   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 106014   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 82538    | 17.51    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 70.04%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 94889    | 17.20    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 68.80%  |
| 10) 1,1-Dichloroethene-d2      | 4.32   | 63    | 75       | 0.01     | ug/L | 0.30    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 0.04%#  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 113188   | 58.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 116.12% |
| 24) Chloroform-d               | 7.65   | 84    | 227665   | 21.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 84.60%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 148348   | 22.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 91.52%  |
| 29) Benzene-d6                 | 8.27   | 84    | 407179   | 22.01    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 88.04%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 139745   | 25.15    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 100.60% |
| 37) Toluene-d8                 | 10.32  | 98    | 353253   | 20.65    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 82.60%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 39655    | 14.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 56.84%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 79519    | 59.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 118.18% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 114827   | 20.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 83.96%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 78755    | 19.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 77.48%  |

## Target Compounds

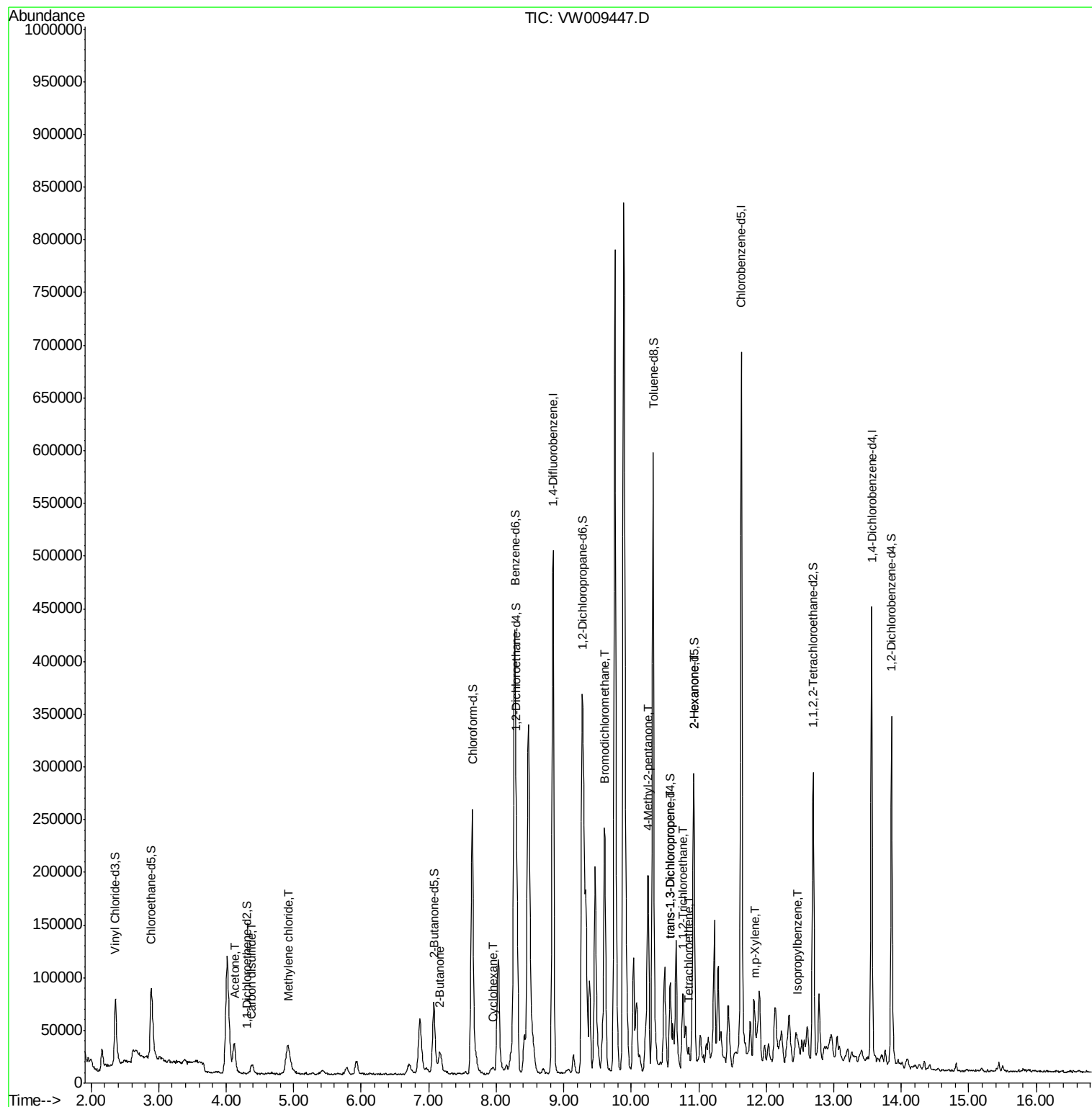
| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acetone                   | 4.12  | 43   | 47472    | 29.695 | ug/L   | 97     |
| 14) Carbon disulfide          | 4.38  | 76   | 16428    | 1.257  | ug/L   | 98     |
| 16) Methylene chloride        | 4.92  | 84   | 20031    | 3.482  | ug/L   | 92     |
| 21) 2-Butanone                | 7.17  | 43   | 22656    | 10.264 | ug/L   | 89     |
| 30) Cyclohexane               | 7.95  | 56   | 3451     | 0.453  | ug/L # | 73     |
| 41) Bromodichloromethane      | 9.61  | 83   | 5593     | 0.857  | ug/L # | 40     |
| 43) 4-Methyl-2-pentanone      | 10.25 | 43   | 21622    | 5.065  | ug/L # | 74     |
| 45) trans-1,3-Dichloropropene | 10.58 | 75   | 2022     | 0.303  | ug/L   | 100    |
| 46) 1,1,2-Trichloroethane     | 10.76 | 97   | 13150    | 3.499  | ug/L # | 42     |
| 47) Tetrachloroethene         | 10.86 | 164  | 1170     | 0.283  | ug/L # | 72     |
| 49) 2-Hexanone                | 10.93 | 43   | 21008    | 6.987  | ug/L # | 45     |
| 54) m,p-Xylene                | 11.84 | 106  | 2910     | 0.339  | ug/L   | 88     |
| 57) Isopropylbenzene          | 12.46 | 105  | 7882     | 0.352  | ug/L   | 98     |

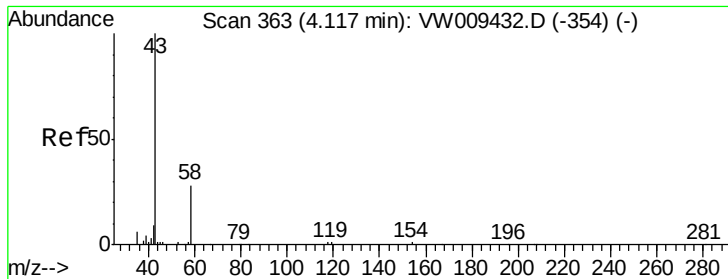
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW032519\  
Data File : VW009447.D  
Acq On : 26 Mar 2019 00:24  
Operator : SY/VA  
Sample : K2044-15  
Misc : 4.98G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Mar 26 09:06:41 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
Quant Title : VOC Analysis  
QLast Update : Tue Mar 26 09:00:24 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 29.695 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW009447.D

Acq: 26 Mar 2019 00:24

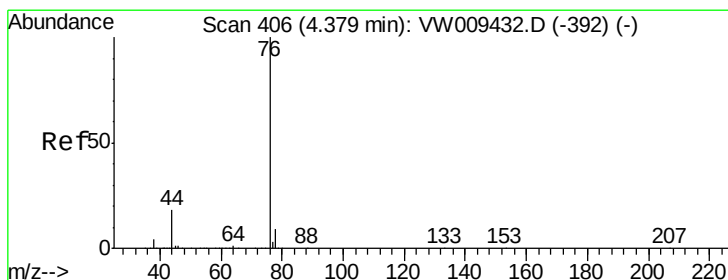
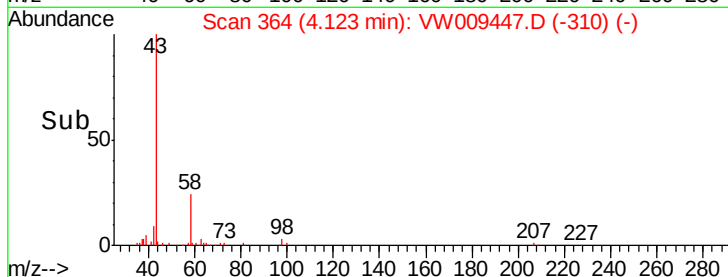
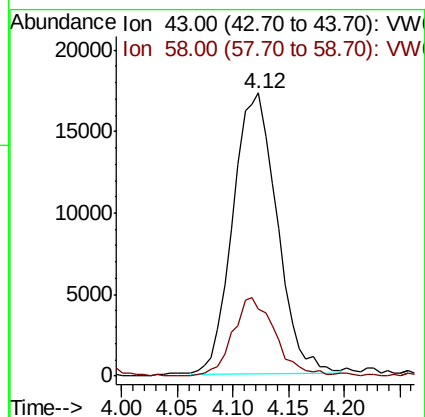
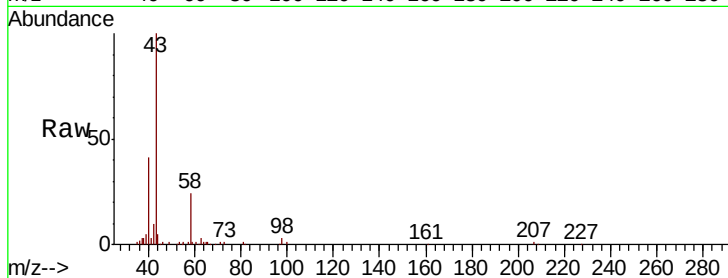
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 43 Resp: 47472

Ion Ratio Lower Upper

43 100

58 26.5 0.0 56.2



#14

Carbon disulfide

Concen: 1.257 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW009447.D

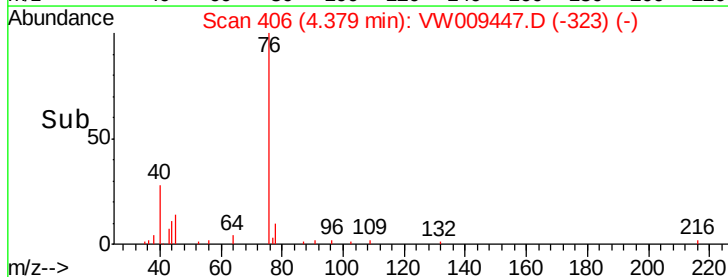
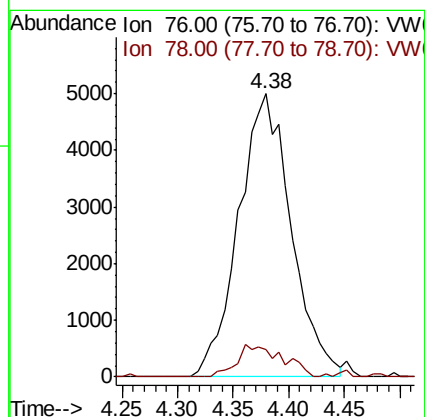
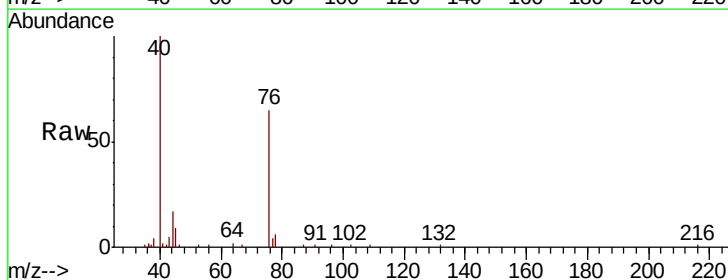
Acq: 26 Mar 2019 00:24

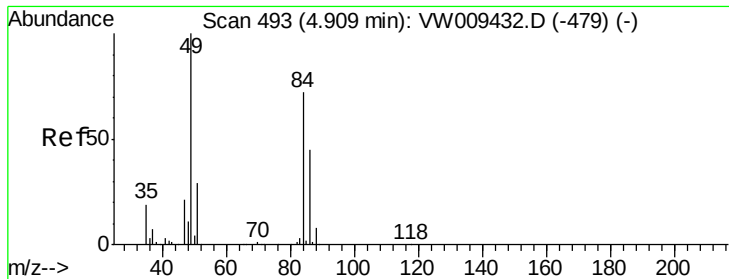
Tgt Ion: 76 Resp: 16428

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9

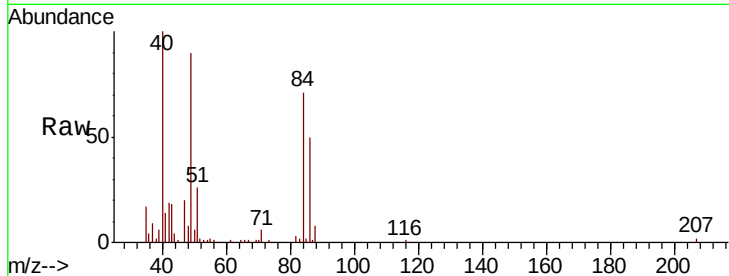




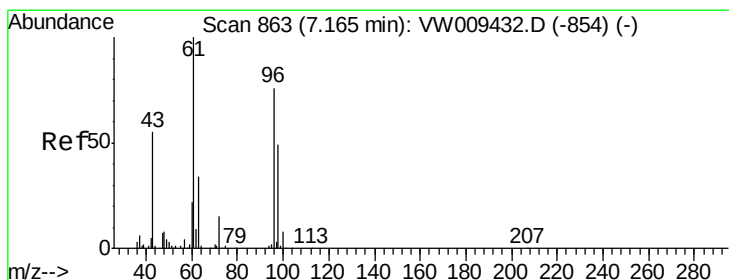
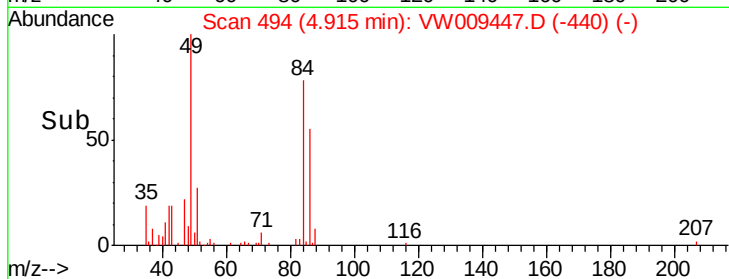
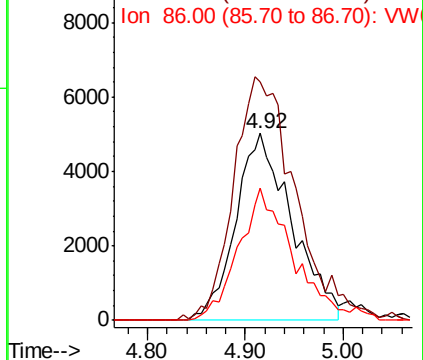
#16  
Methylene chloride  
Concen: 3.482 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW009447.D  
Acq: 26 Mar 2019 00:24

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 84 Resp: 20031  
Ion Ratio Lower Upper  
84 100  
49 127.8 96.0 178.2  
86 70.8 44.4 82.5

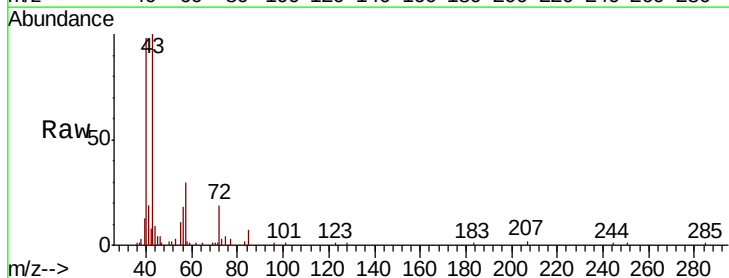


Abundance Ion 84.00 (83.70 to 84.70): VW  
Ion 49.00 (48.70 to 49.70): VW  
Ion 86.00 (85.70 to 86.70): VW

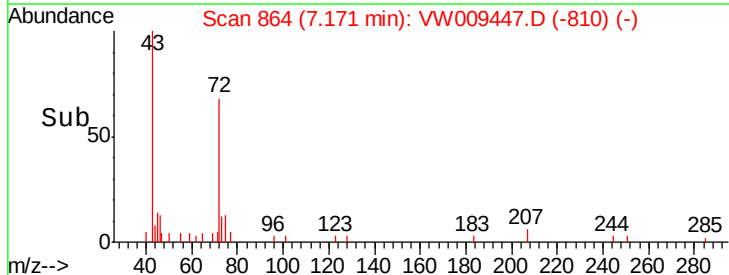
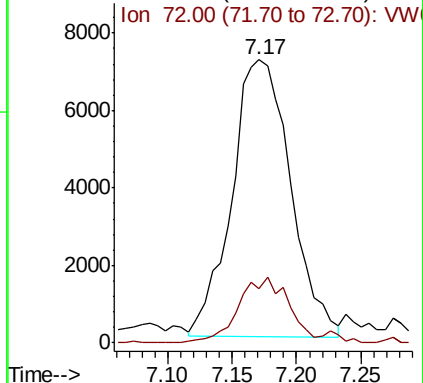


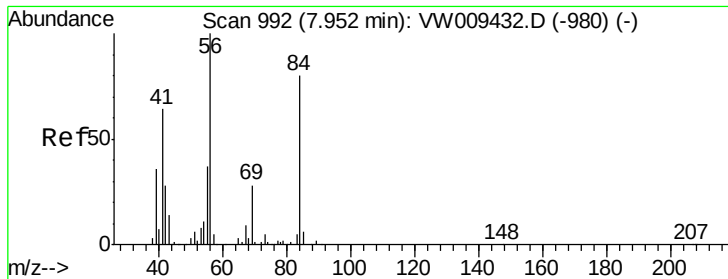
#21  
2-Butanone  
Concen: 10.264 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: VW009447.D  
Acq: 26 Mar 2019 00:24

Tgt Ion: 43 Resp: 22656  
Ion Ratio Lower Upper  
43 100  
72 20.3 13.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 72.00 (71.70 to 72.70): VW

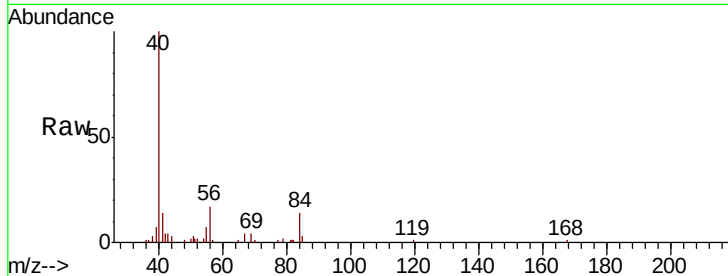




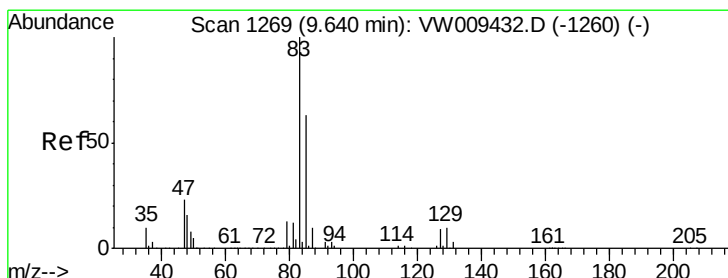
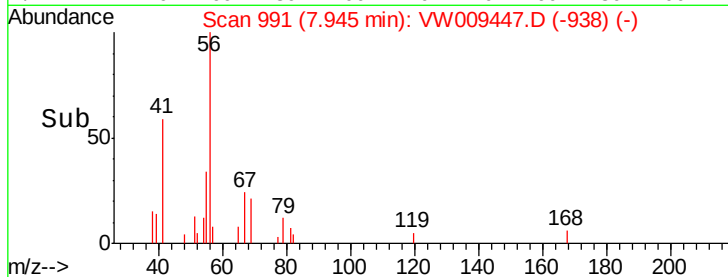
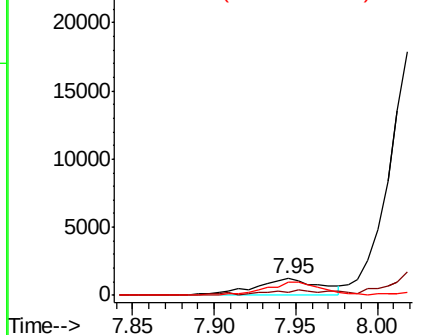
#30  
Cyclohexane  
Concen: 0.453 ug/L  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW009447.D  
Acq: 26 Mar 2019 00:24

Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 56 Resp: 3451  
Ion Ratio Lower Upper  
56 100  
69 5.7 24.0 36.0#  
84 67.3 69.2 103.8#

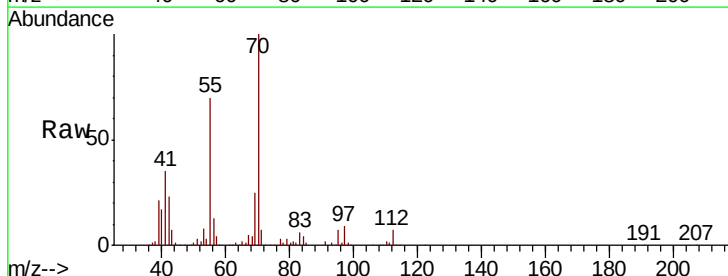


Abundance Ion 56.00 (55.70 to 56.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 84.00 (83.70 to 84.70): VW

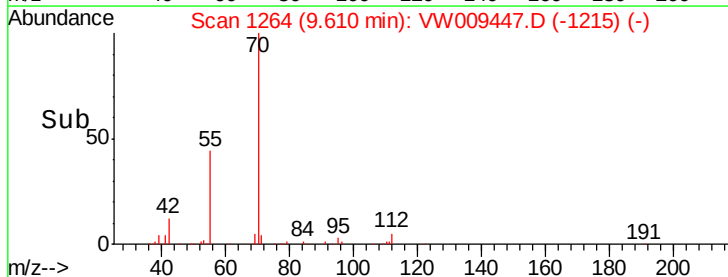
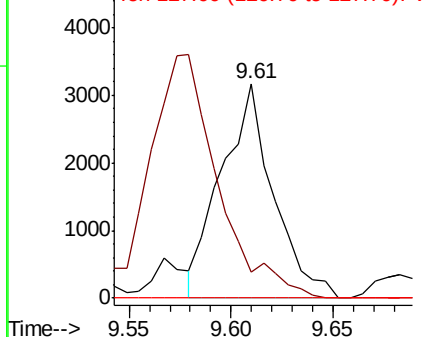


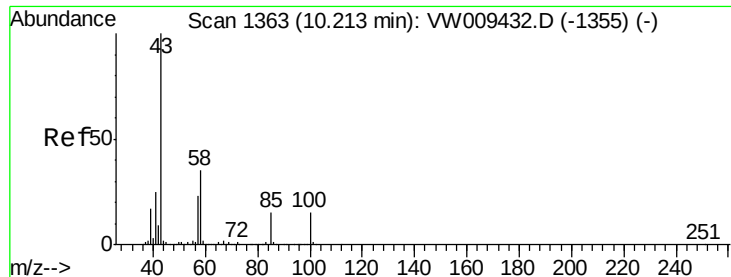
#41  
Bromodichloromethane  
Concen: 0.857 ug/L  
RT: 9.61 min Scan# 1264  
Delta R.T. -0.03 min  
Lab File: VW009447.D  
Acq: 26 Mar 2019 00:24

Tgt Ion: 83 Resp: 5593  
Ion Ratio Lower Upper  
83 100  
85 12.0 43.5 80.7#  
127 0.0 6.2 9.4#



Abundance Ion 83.00 (82.70 to 83.70): VW  
Ion 85.00 (84.70 to 85.70): VW  
Ion 127.00 (126.70 to 127.70): V





#43

4-Methyl-2-pentanone

Concen: 5.065 ug/L

RT: 10.25 min Scan# 1369

Delta R.T. 0.04 min

Lab File: VW009447.D

Acq: 26 Mar 2019 00:24

Instrument :

MSVOA\_W

ClientSampleId :

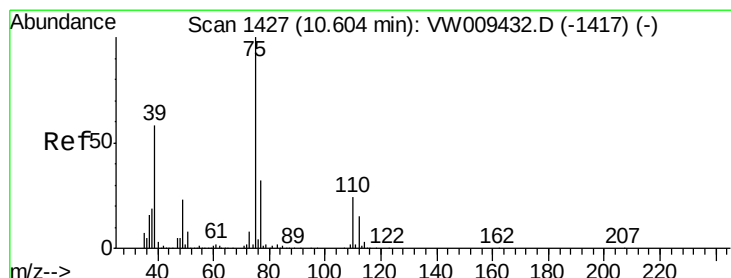
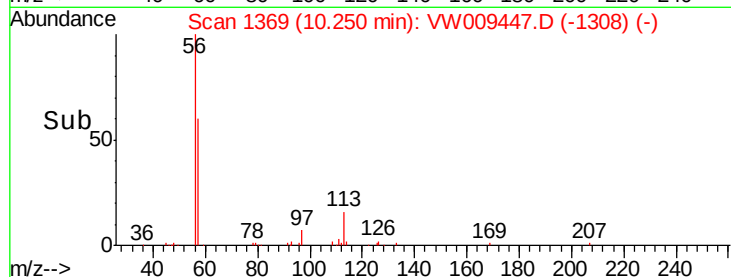
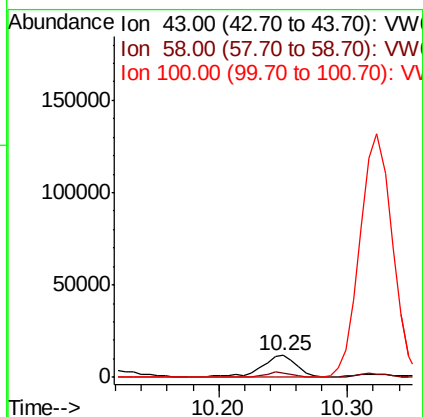
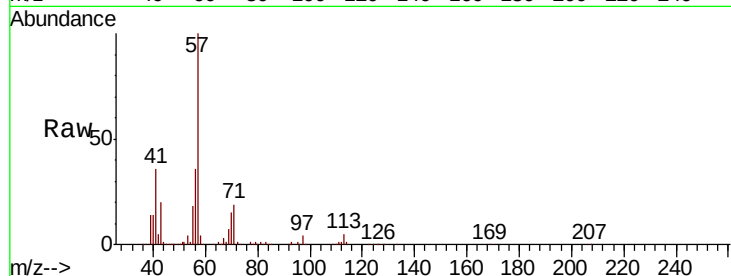
Tot Ion: 43 Resp: 21622

Ion Ratio Lower Upper

43 100

58 22.1 28.2 42.2#

100 0.2 11.4 17.2#



#45

trans-1,3-Dichloropropene

Concen: 0.303 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW009447.D

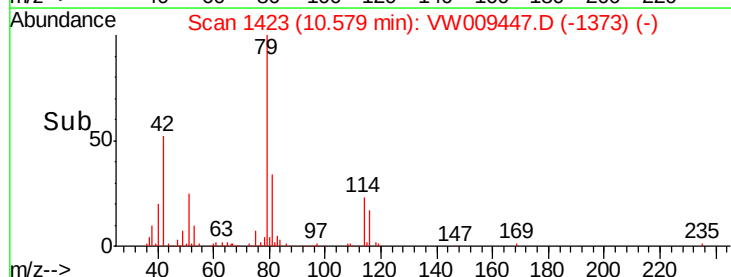
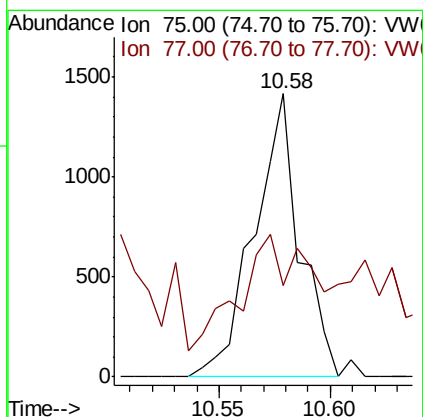
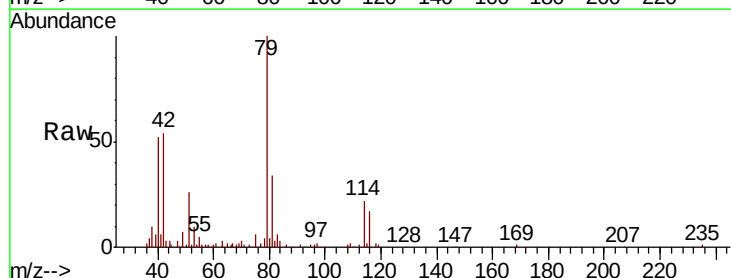
Acq: 26 Mar 2019 00:24

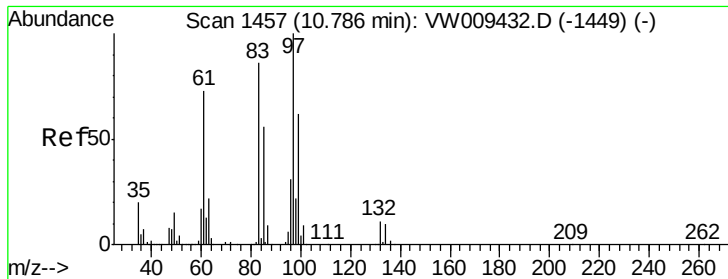
Tgt Ion: 75 Resp: 2022

Ion Ratio Lower Upper

75 100

77 32.2 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 3.499 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW009447.D

Acq: 26 Mar 2019 00:24

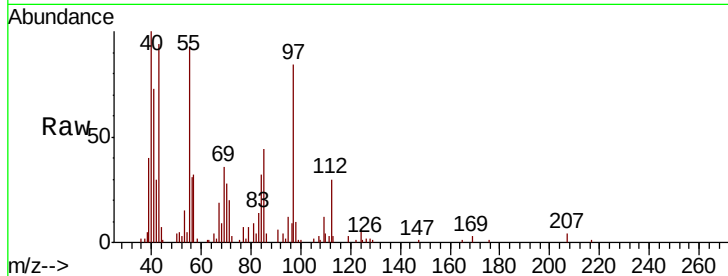
Instrument :

MSVOA\_W

ClientSampled :

Tot Ion: 97 Resp: 13150

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 97  | 100   |       |        |
| 83  | 16.0  | 60.7  | 112.7# |
| 85  | 51.9  | 40.1  | 74.5   |
| 99  | 0.9   | 43.8  | 81.3#  |



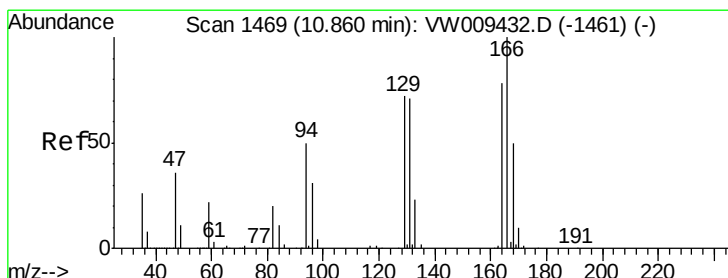
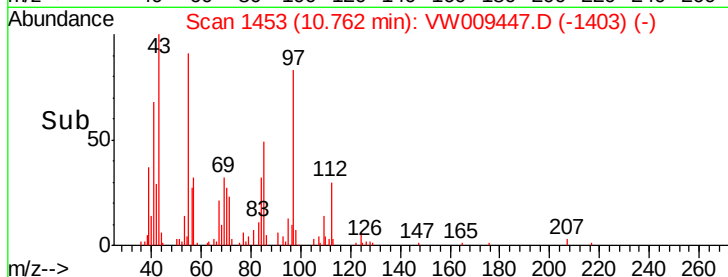
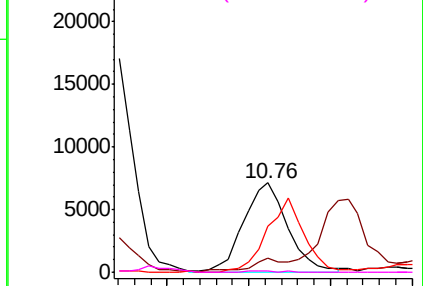
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 0.283 ug/L

RT: 10.86 min Scan# 1469

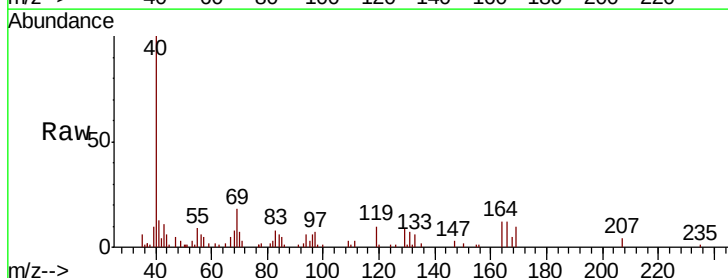
Delta R.T. 0.00 min

Lab File: VW009447.D

Acq: 26 Mar 2019 00:24

Tgt Ion: 164 Resp: 1170

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 164 | 100   |       |        |
| 129 | 74.4  | 66.5  | 123.5  |
| 131 | 60.7  | 62.6  | 116.3# |
| 166 | 95.2  | 91.6  | 170.0  |



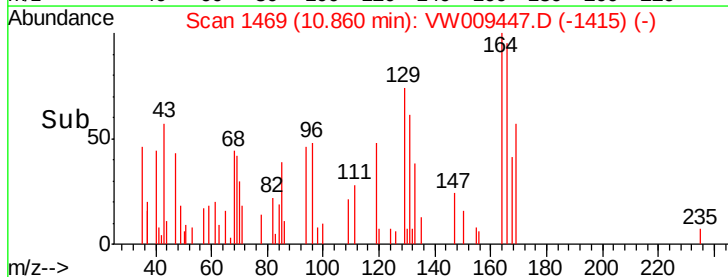
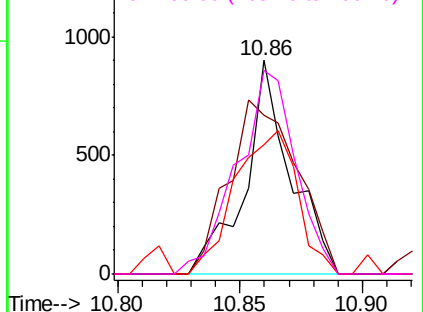
Abundance

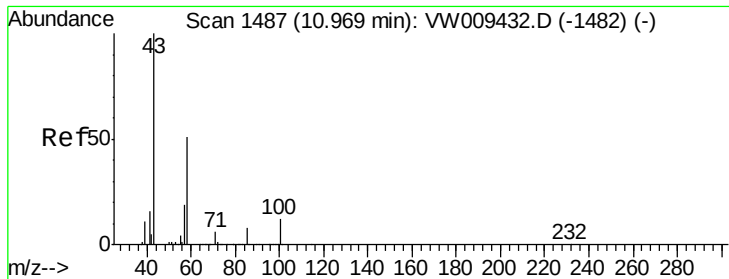
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 6.987 ug/L

RT: 10.93 min Scan# 1480

Delta R.T. -0.04 min

Lab File: VW009447.D

Acq: 26 Mar 2019 00:24

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 43 Resp: 21008

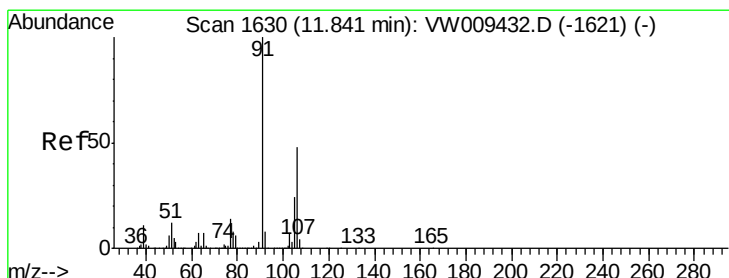
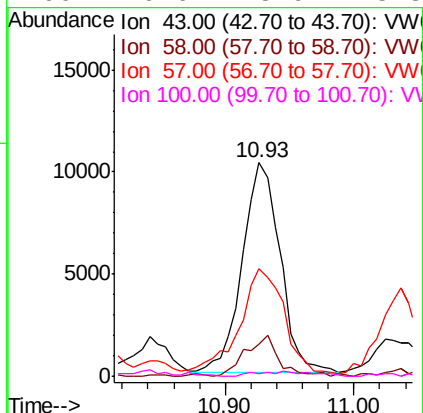
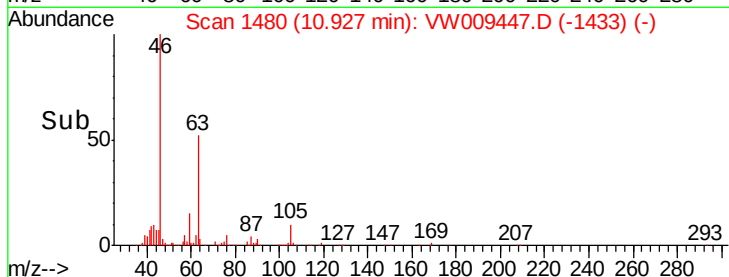
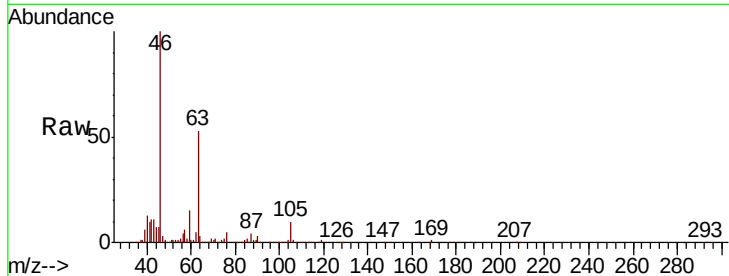
Ion Ratio Lower Upper

43 100

58 16.5 39.2 58.8#

57 58.8 14.2 21.2#

100 0.6 8.9 13.3#



#54

m,p-Xylene

Concen: 0.339 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009447.D

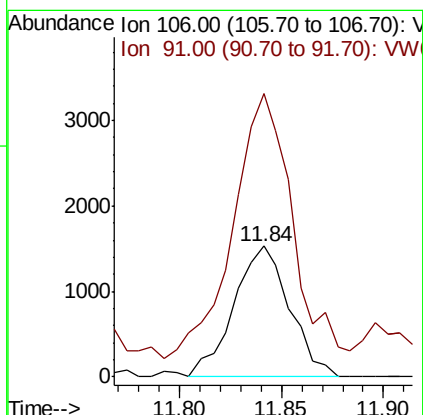
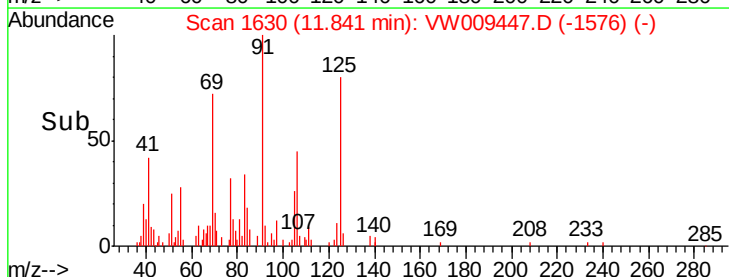
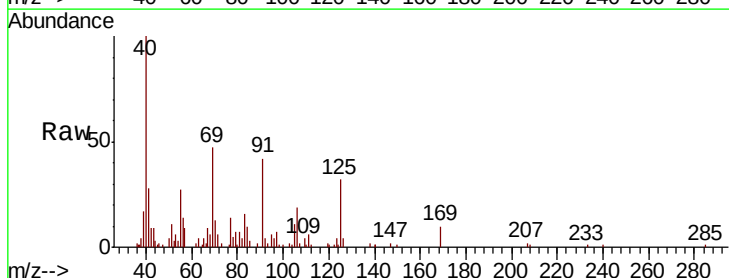
Acq: 26 Mar 2019 00:24

Tgt Ion:106 Resp: 2910

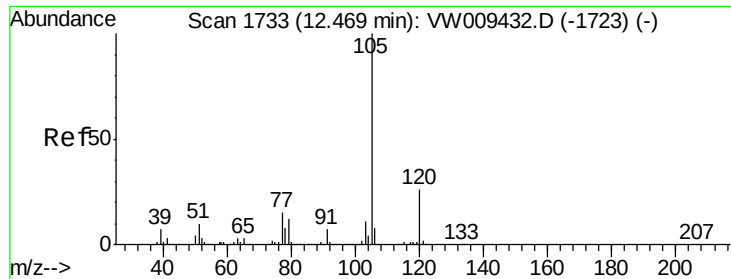
Ion Ratio Lower Upper

106 100

91 216.1 138.4 257.0







#57

Isopropylbenzene

Concen: 0.352 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009447.D

Acq: 26 Mar 2019 00:24

Instrument :

MSVOA\_W

ClientSampleId :

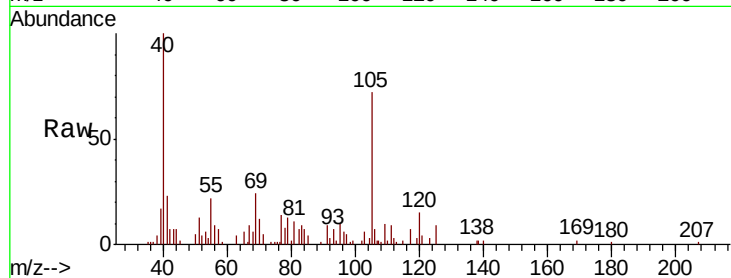
Tot Ion:105 Resp: 7882

Ion Ratio Lower Upper

105 100

120 25.4 21.3 31.9

77 17.0 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V

