

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032620\  
 Data File : VW015148.D  
 Acq On : 26 Mar 2020 14:16  
 Operator : SY/VA  
 Sample : L2045-02RE  
 Misc : 8.25G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Mar 27 01:07:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 27 01:00:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 223164   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 103307   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 16974    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 132737   | 34.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 137.80%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 121477   | 38.22    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 152.88%# |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 143859   | 18.57    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 74.28%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 42911    | 48.92    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.84%   |
| 24) Chloroform-d               | 7.64   | 84    | 179256   | 26.88    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 107.52%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 106129   | 27.48    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 109.92%  |
| 29) Benzene-d6                 | 8.27   | 84    | 313497   | 47.41    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 189.64%# |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 108032   | 49.18    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 196.72%# |
| 37) Toluene-d8                 | 10.32  | 98    | 164794   | 29.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 116.96%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 30230    | 35.96    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 143.84%# |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 24391    | 75.18    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 150.36%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 34547    | 23.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 92.00%   |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 11664    | 19.75    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 79.00%   |

## Target Compounds

|                               |       |     |        |         | Ovalue    |
|-------------------------------|-------|-----|--------|---------|-----------|
| 13) Acetone                   | 4.12  | 43  | 100026 | 127.756 | ug/L 99   |
| 14) Carbon disulfide          | 4.37  | 76  | 15241  | 1.240   | ug/L 98   |
| 16) Methylene chloride        | 4.92  | 84  | 16140  | 4.231   | ug/L 95   |
| 21) 2-Butanone                | 7.17  | 43  | 46084  | 41.557  | ug/L 95   |
| 30) Cyclohexane               | 7.92  | 56  | 2258   | 0.670   | ug/L # 52 |
| 34) Benzene                   | 8.32  | 78  | 5171   | 0.677   | ug/L 100  |
| 42) cis-1,3-Dichloropropene   | 10.03 | 75  | 2623   | 0.947   | ug/L # 65 |
| 43) 4-Methyl-2-pentanone      | 10.21 | 43  | 43188  | 36.218  | ug/L 97   |
| 44) Toluene                   | 10.38 | 91  | 66164  | 8.755   | ug/L 98   |
| 45) trans-1,3-Dichloropropene | 10.57 | 75  | 1766   | 0.729   | ug/L # 1  |
| 46) 1,1,2-Trichloroethane     | 10.76 | 97  | 644    | 0.520   | ug/L # 22 |
| 49) 2-Hexanone                | 10.96 | 43  | 1970   | 2.477   | ug/L # 95 |
| 53) Ethylbenzene              | 11.73 | 91  | 8580   | 1.051   | ug/L 92   |
| 54) m,p-Xylene                | 11.83 | 106 | 5948   | 2.079   | ug/L 86   |
| 55) o-xylene                  | 12.17 | 106 | 2391   | 0.891   | ug/L 71   |
| 57) Isopropylbenzene          | 12.46 | 105 | 11025  | 1.492   | ug/L # 1  |
| 69) Naphthalene               | 15.37 | 128 | 835    | 0.796   | ug/L # 83 |

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ClientSampleId :

Quant Time: Mar 27 01:07:04 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 27 01:00:03 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

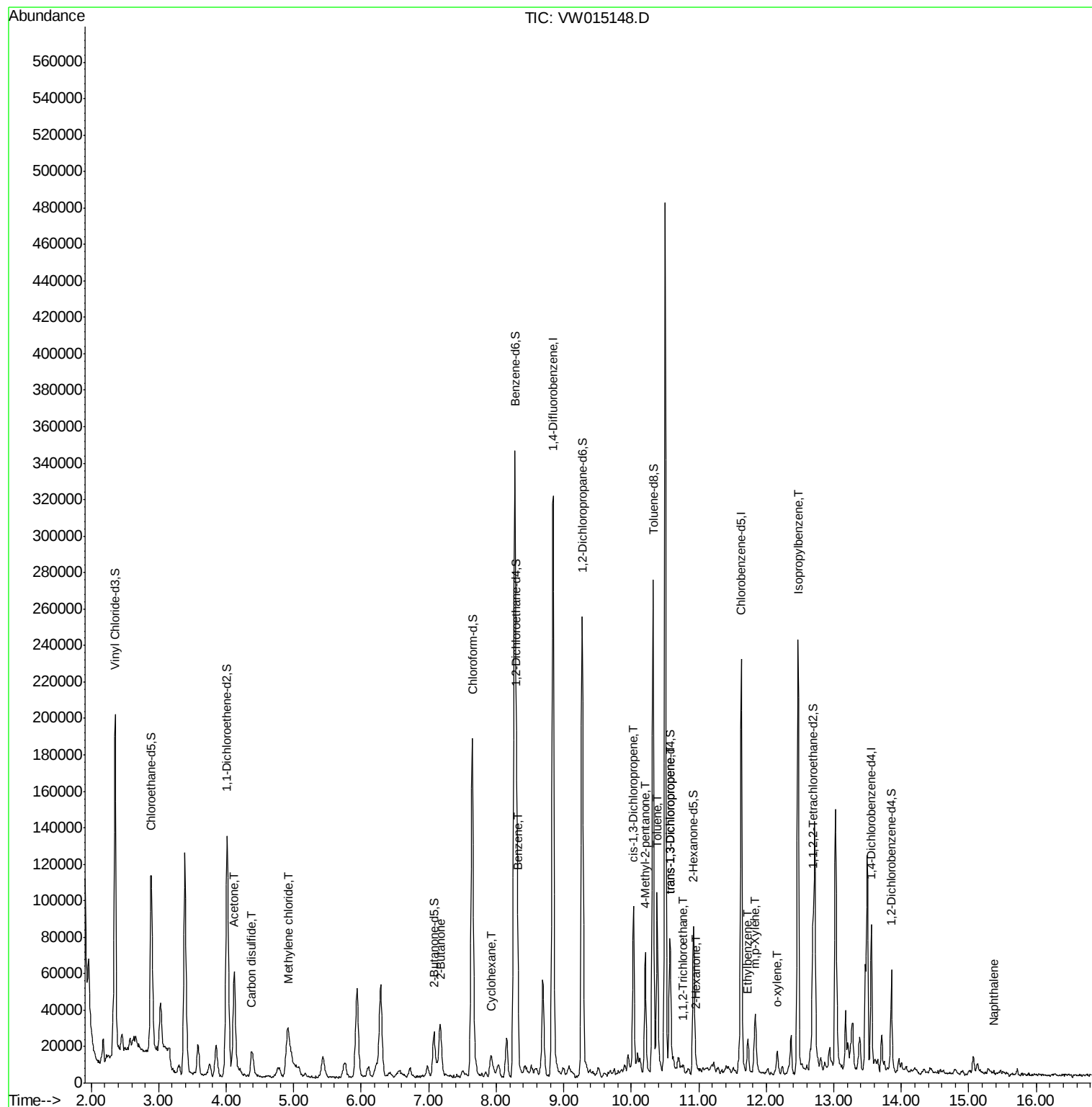
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|-------|--|--|--|--|--|--|
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| ----- |  |  |  |  |  |  |

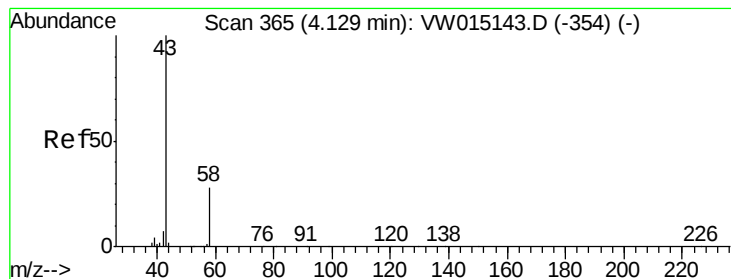
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
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Quant Time: Mar 27 01:07:04 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM032520S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 27 01:00:03 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 127.756 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW015148.D

Acq: 26 Mar 2020 14:16

Instrument :

MSVOA\_W

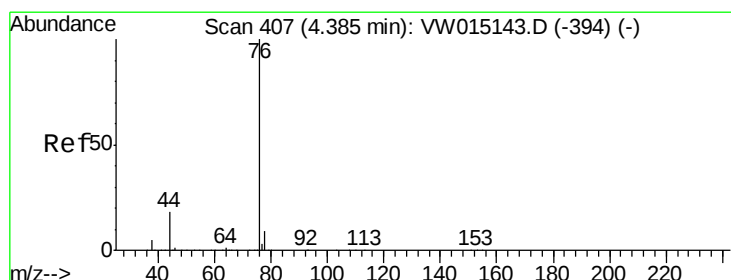
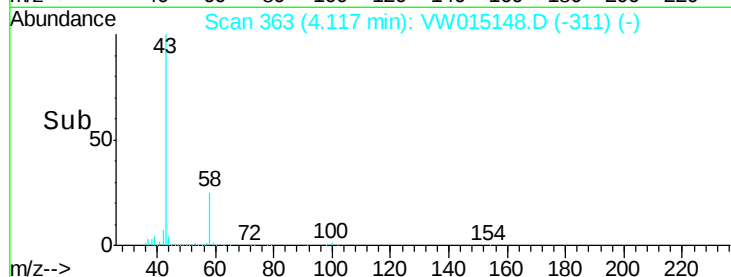
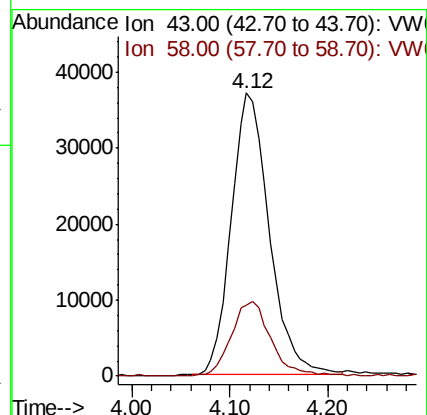
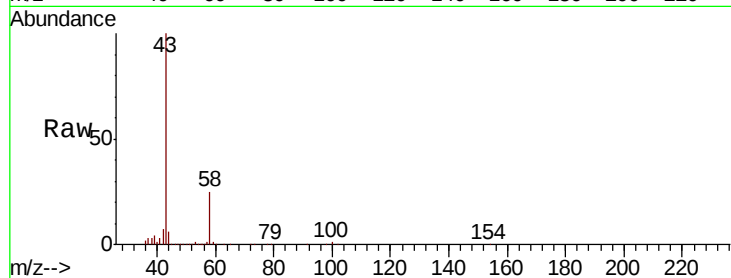
ClientSampleId :

Tot Ion: 43 Resp: 100026

Ion Ratio Lower Upper

43 100

58 26.6 0.0 54.4



#14

Carbon disulfide

Concen: 1.240 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW015148.D

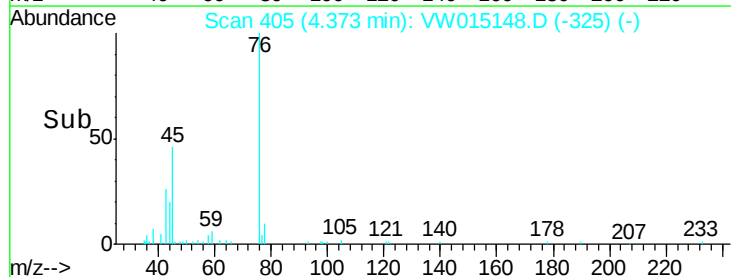
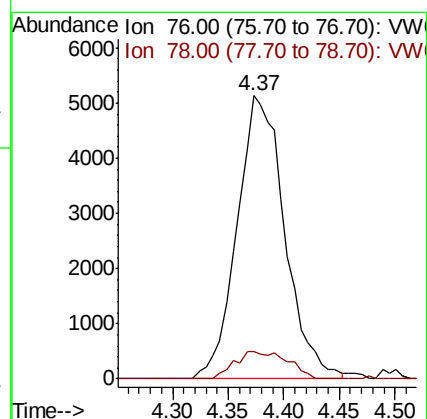
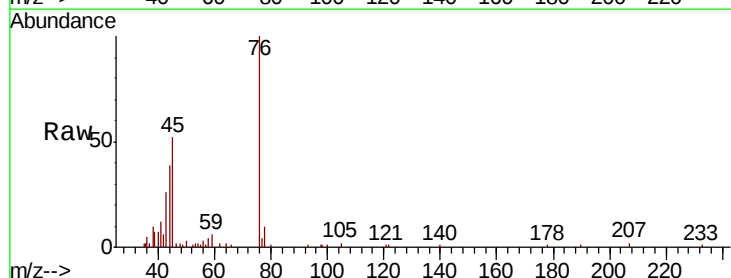
Acq: 26 Mar 2020 14:16

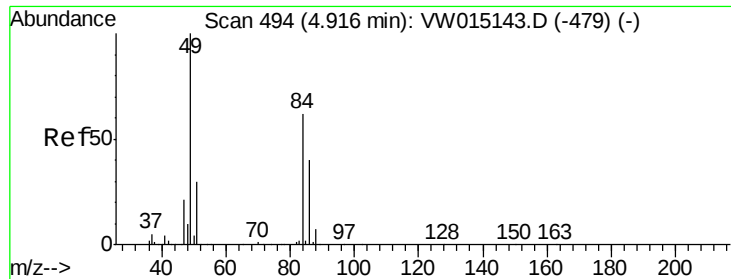
Tgt Ion: 76 Resp: 15241

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9

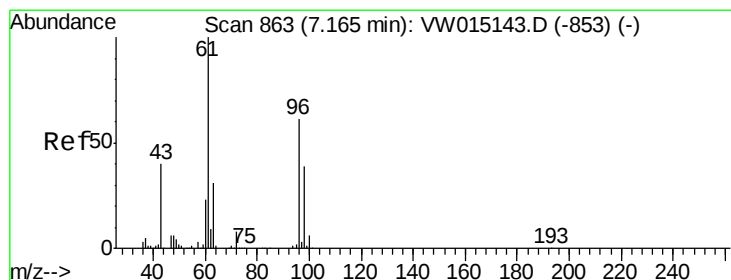
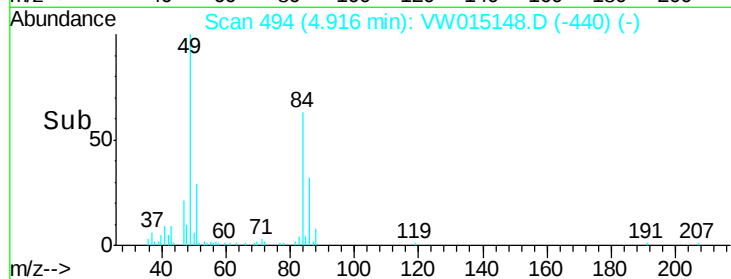
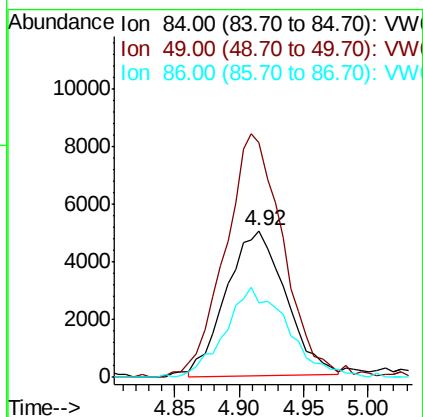
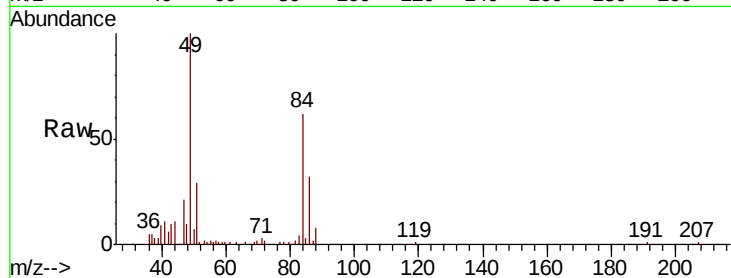




#16  
Methylene chloride  
Concen: 4.231 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW015148.D  
Acq: 26 Mar 2020 14:16

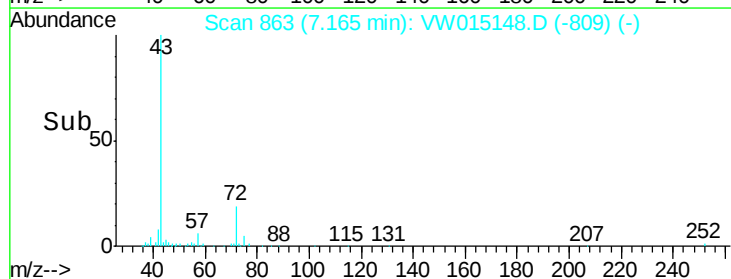
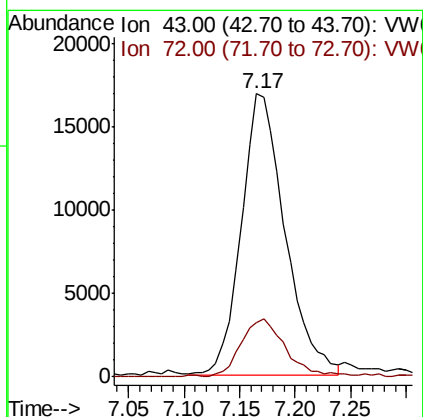
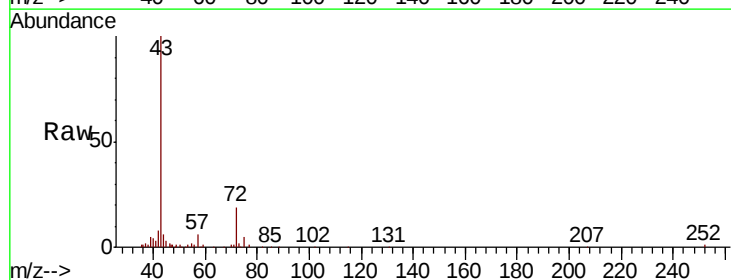
Instrument :  
MSVOA\_W  
ClientSampled :

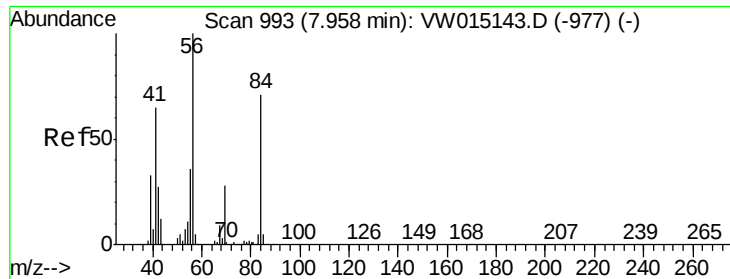
Tot Ion: 84 Resp: 16140  
Ion Ratio Lower Upper  
84 100  
49 160.2 111.7 207.5  
86 50.7 44.7 82.9



#21  
2-Butanone  
Concen: 41.557 ug/L  
RT: 7.17 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW015148.D  
Acq: 26 Mar 2020 14:16

Tgt Ion: 43 Resp: 46084  
Ion Ratio Lower Upper  
43 100  
72 21.0 11.7 35.0

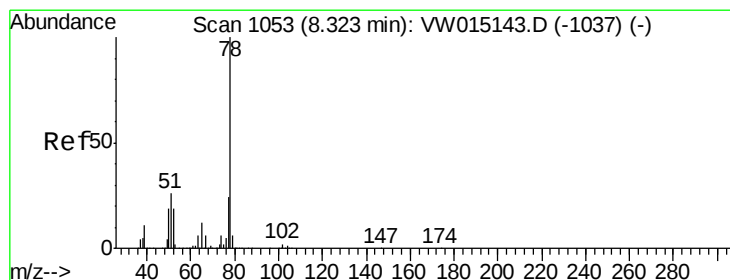
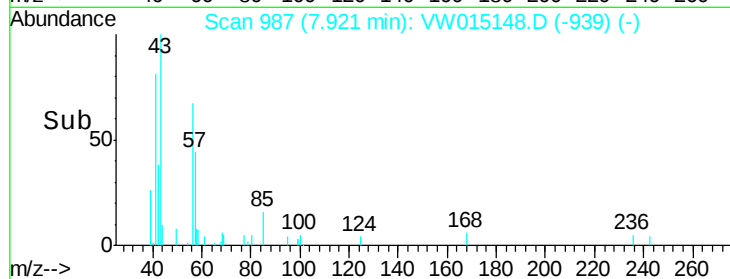
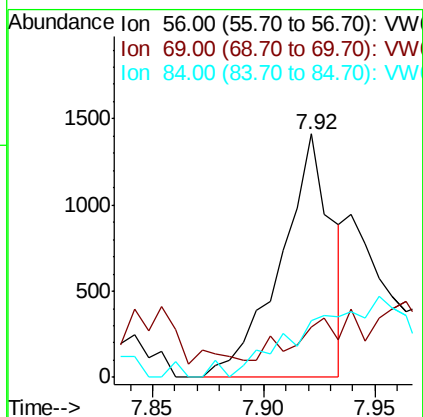
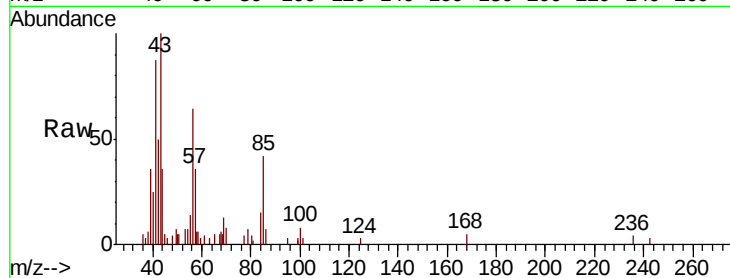




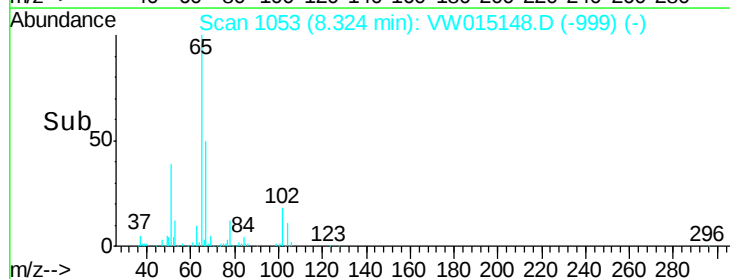
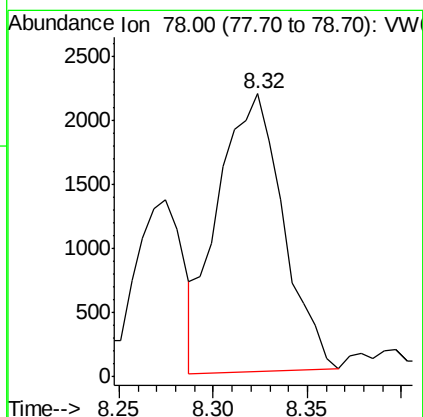
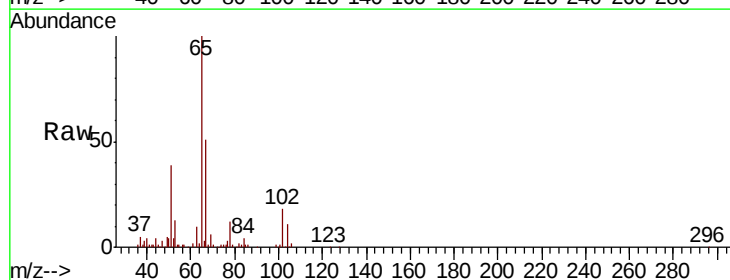
#30  
Cyclohexane  
Concen: 0.670 ug/L  
RT: 7.92 min Scan# 987  
Delta R.T. -0.04 min  
Lab File: VW015148.D  
Acq: 26 Mar 2020 14:16

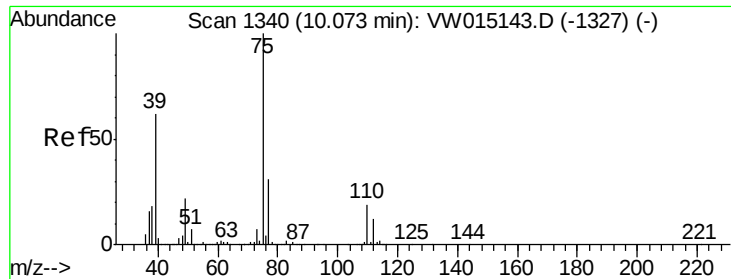
Instrument :  
MSVOA\_W  
ClientSampleId :

Tot Ion: 56 Resp: 2258  
Ion Ratio Lower Upper  
56 100  
69 7.3 22.0 33.0#  
84 29.9 58.9 88.3#



#34  
Benzene  
Concen: 0.677 ug/L  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW015148.D  
Acq: 26 Mar 2020 14:16  
Tgt Ion: 78 Resp: 5171





#42

cis-1,3-Dichloropropene

Concen: 0.947 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW015148.D

Acq: 26 Mar 2020 14:16

Instrument :

MSVOA\_W

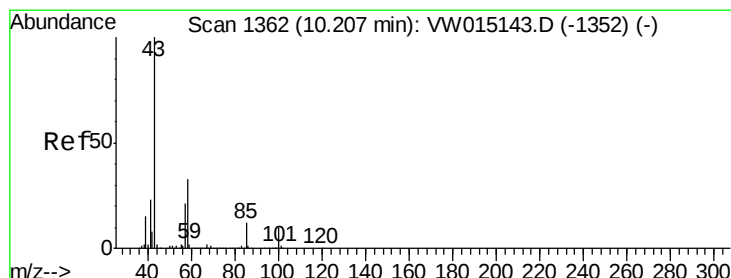
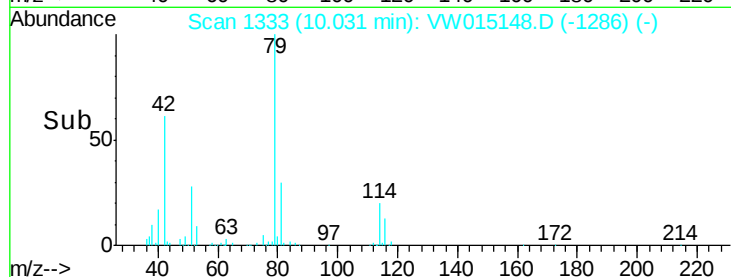
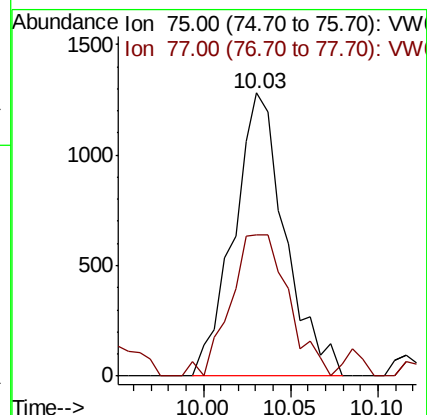
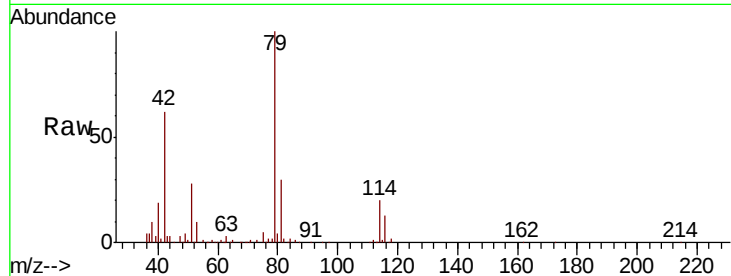
ClientSampled :

Tot Ion: 75 Resp: 2623

Ion Ratio Lower Upper

75 100

77 49.9 21.4 39.8#



#43

4-Methyl-2-pentanone

Concen: 36.218 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015148.D

Acq: 26 Mar 2020 14:16

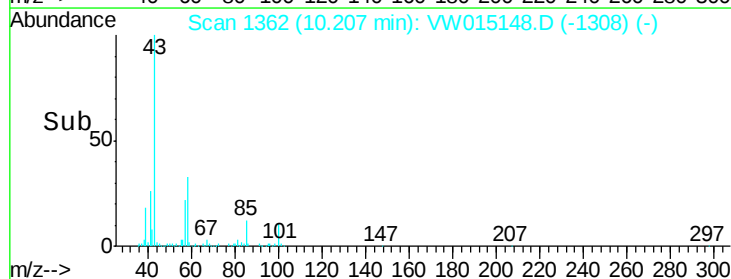
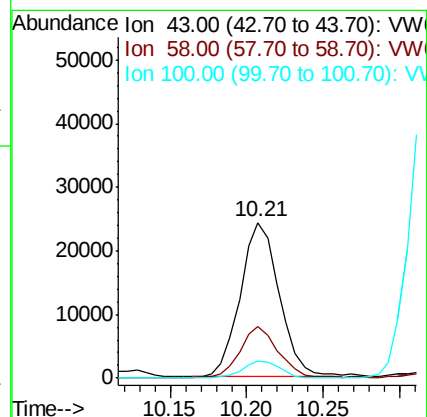
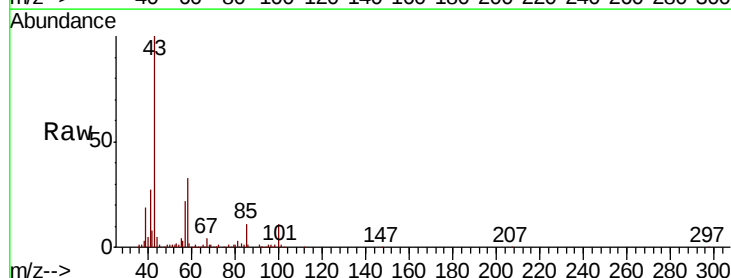
Tgt Ion: 43 Resp: 43188

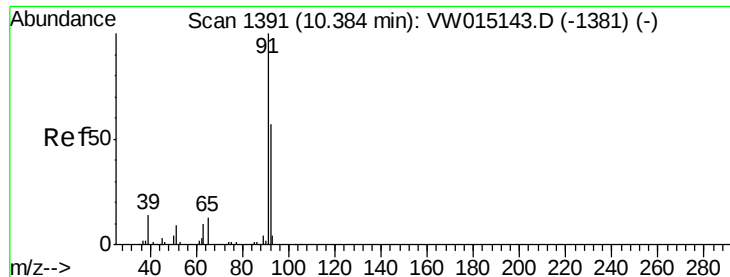
Ion Ratio Lower Upper

43 100

58 32.8 27.9 41.9

100 10.8 8.9 13.3





#44

Toluene

Concen: 8.755 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW015148.D

Acq: 26 Mar 2020 14:16

Instrument :

MSVOA\_W

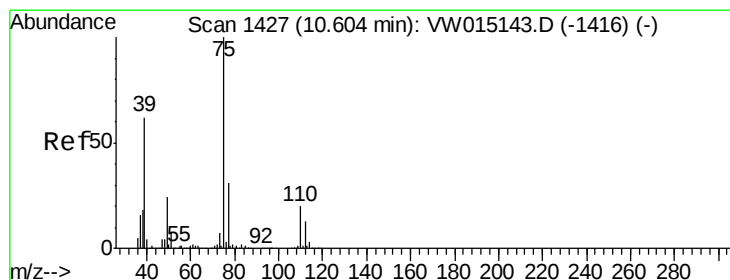
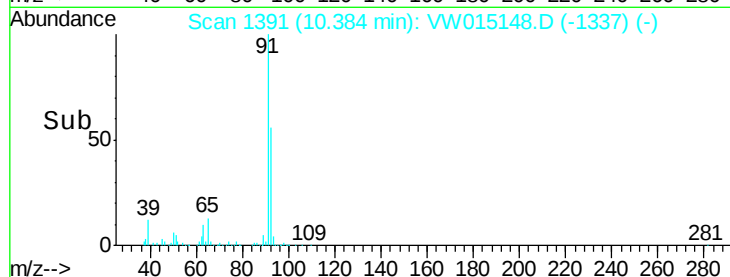
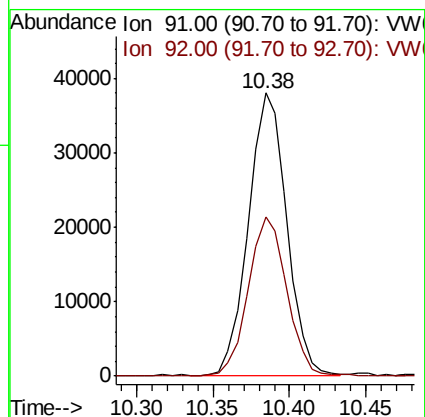
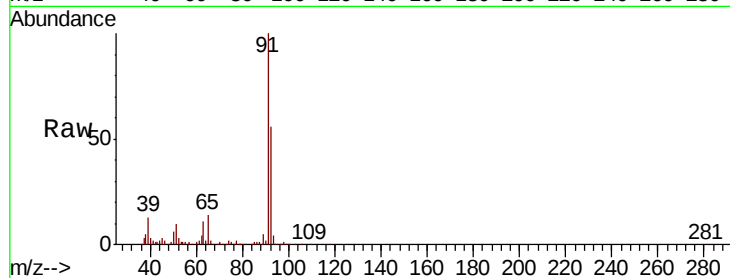
ClientSampleId :

Tot Ion: 91 Resp: 66164

Ion Ratio Lower Upper

91 100

92 56.0 40.2 74.6



#45

trans-1,3-Dichloropropene

Concen: 0.729 ug/L

RT: 10.57 min Scan# 1422

Delta R.T. -0.03 min

Lab File: VW015148.D

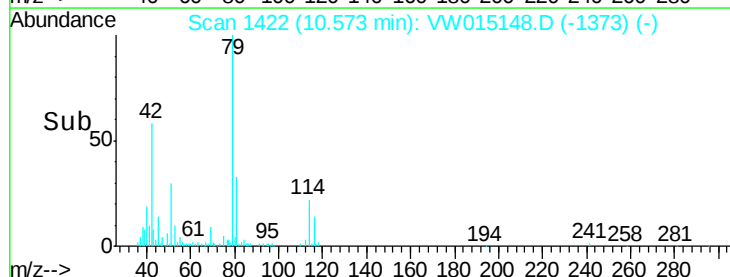
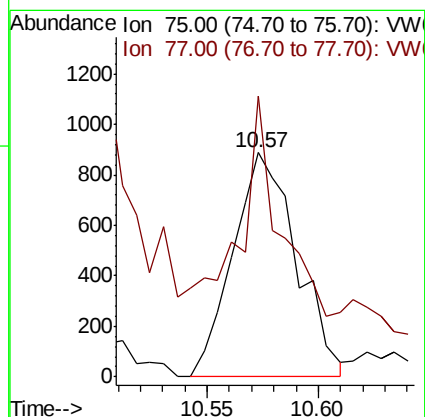
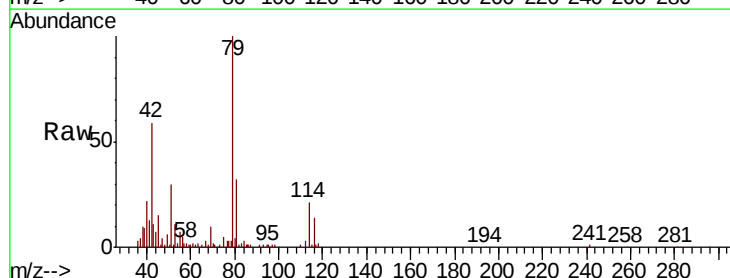
Acq: 26 Mar 2020 14:16

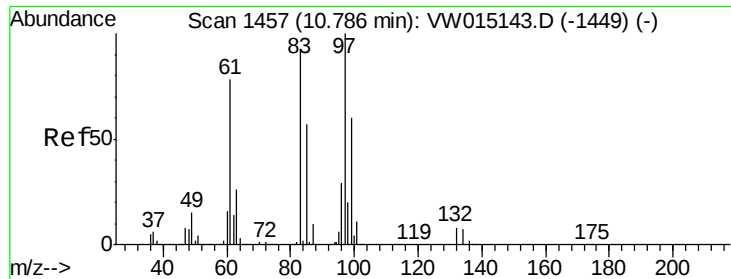
Tgt Ion: 75 Resp: 1766

Ion Ratio Lower Upper

75 100

77 125.6 21.8 40.4#

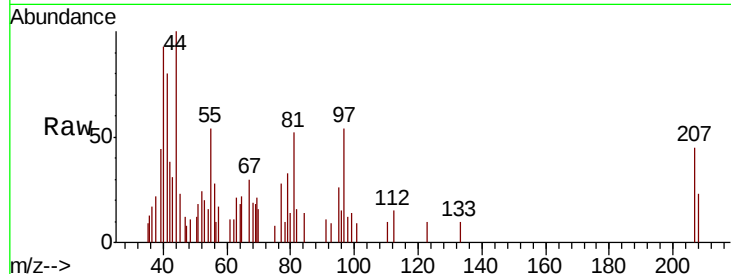




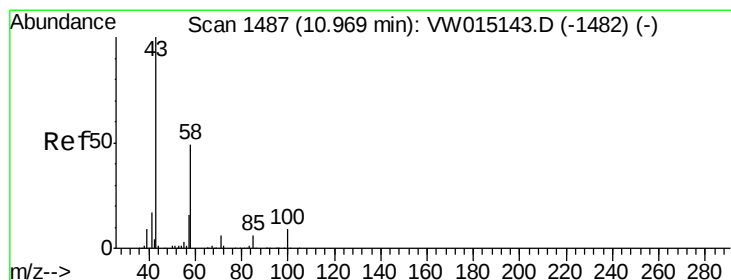
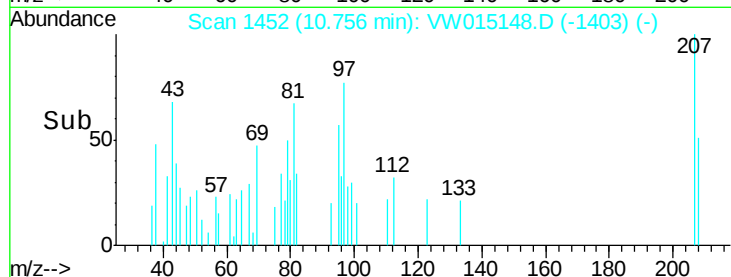
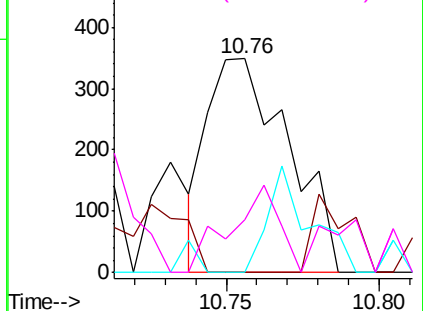
#46  
 1,1,2-Trichloroethane  
 Concen: 0.520 ug/L  
 RT: 10.76 min Scan# 1452  
 Delta R.T. -0.03 min  
 Lab File: VW015148.D  
 Acq: 26 Mar 2020 14:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 97 Resp: 644  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 64.8 120.4#  
 85 0.0 40.9 75.9#  
 99 24.9 43.8 81.4#

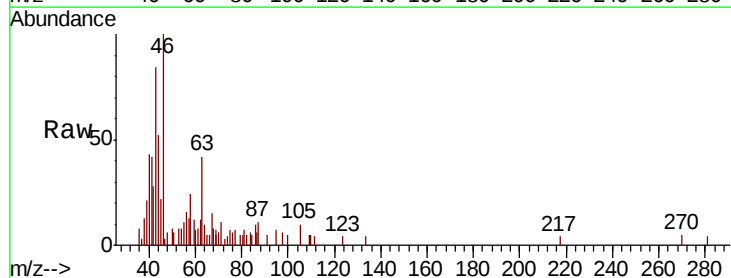


Abundance Ion 97.00 (96.70 to 97.70): VW  
 Ion 83.00 (82.70 to 83.70): VW  
 Ion 85.00 (84.70 to 85.70): VW  
 Ion 99.00 (98.70 to 99.70): VW

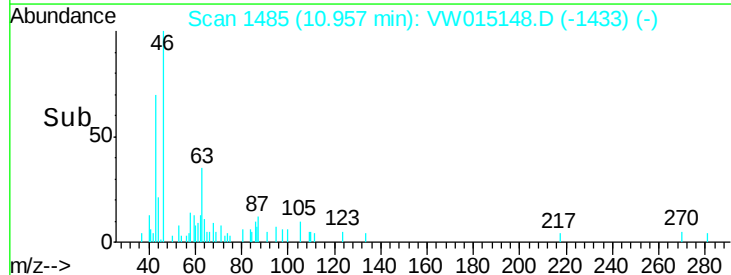
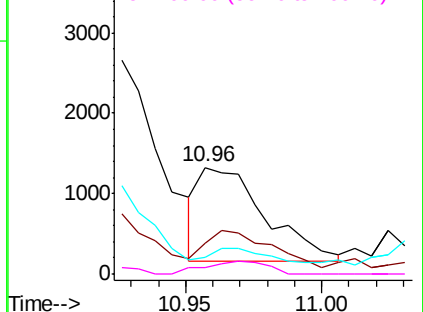


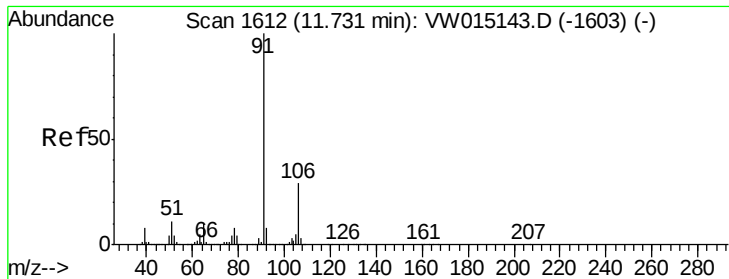
#49  
 2-Hexanone  
 Concen: 2.477 ug/L  
 RT: 10.96 min Scan# 1485  
 Delta R.T. -0.01 min  
 Lab File: VW015148.D  
 Acq: 26 Mar 2020 14:16

Tgt Ion: 43 Resp: 1970  
 Ion Ratio Lower Upper  
 43 100  
 58 49.6 38.5 57.7  
 57 12.3 12.9 19.3#  
 100 12.5 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VW  
 Ion 58.00 (57.70 to 58.70): VW  
 Ion 57.00 (56.70 to 57.70): VW  
 Ion 100.00 (99.70 to 100.70): VW

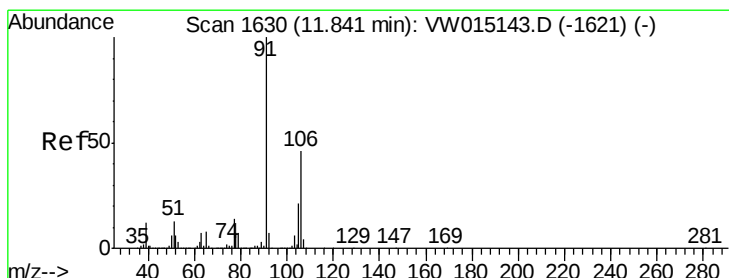
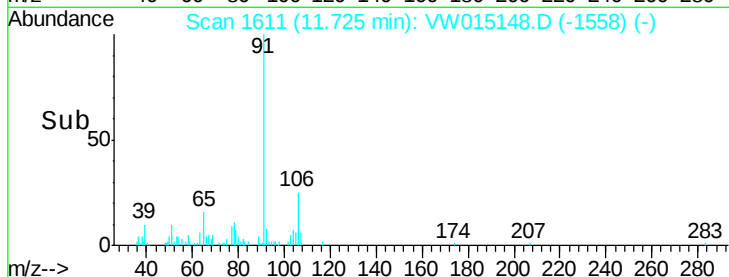
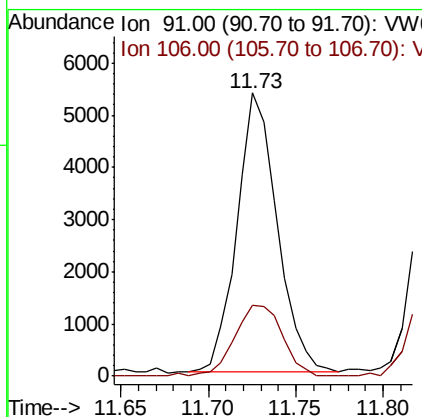
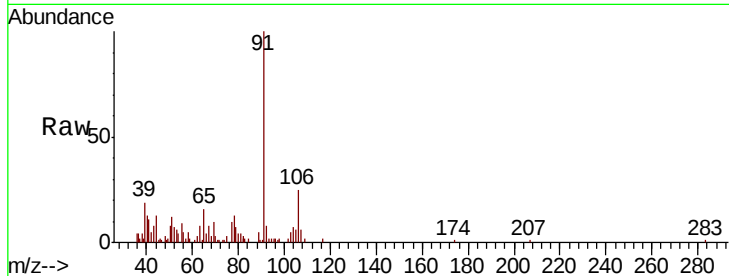




#53  
Ethylbenzene  
Concen: 1.051 ug/L  
RT: 11.73 min Scan# 1611  
Delta R.T. -0.01 min  
Lab File: VW015148.D  
Acq: 26 Mar 2020 14:16

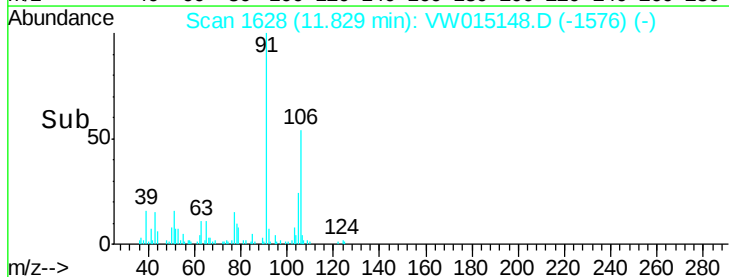
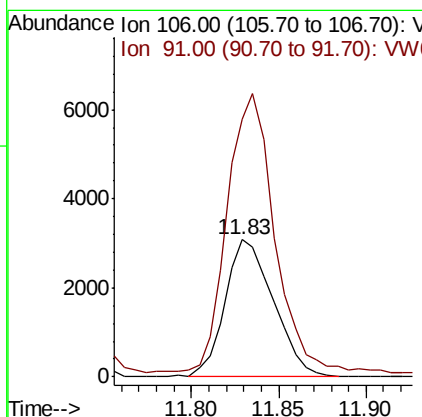
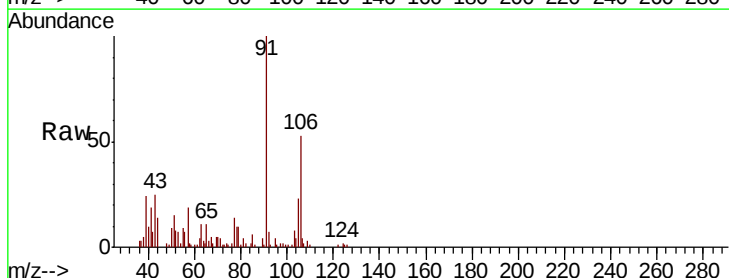
Instrument :  
MSVOA\_W  
ClientSampleId :

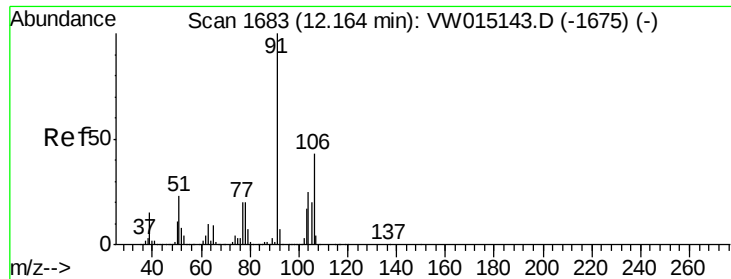
Tot Ion: 91 Resp: 8580  
Ion Ratio Lower Upper  
91 100  
106 24.9 20.6 38.2



#54  
m,p-Xylene  
Concen: 2.079 ug/L  
RT: 11.83 min Scan# 1628  
Delta R.T. -0.01 min  
Lab File: VW015148.D  
Acq: 26 Mar 2020 14:16

Tgt Ion: 106 Resp: 5948  
Ion Ratio Lower Upper  
106 100  
91 188.2 147.3 273.6





#55

o-xylene

Concen: 0.891 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW015148.D

Acq: 26 Mar 2020 14:16

Instrument :

MSVOA\_W

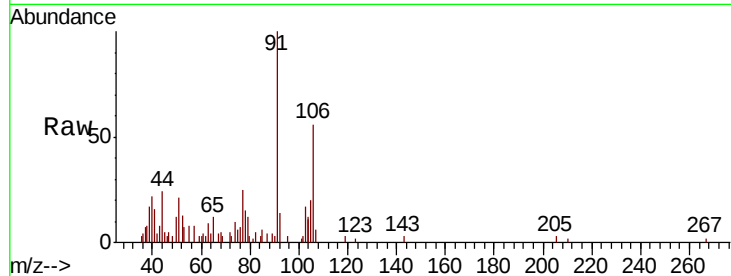
ClientSampled :

Tot Ion:106 Resp: 2391

Ion Ratio Lower Upper

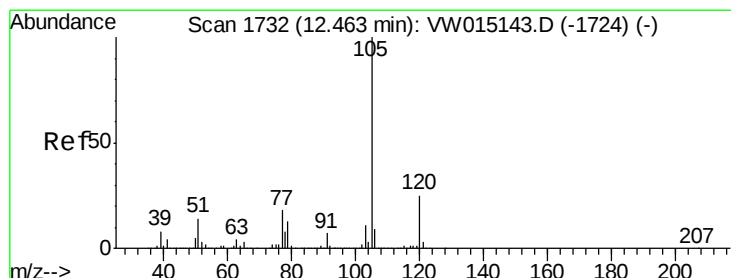
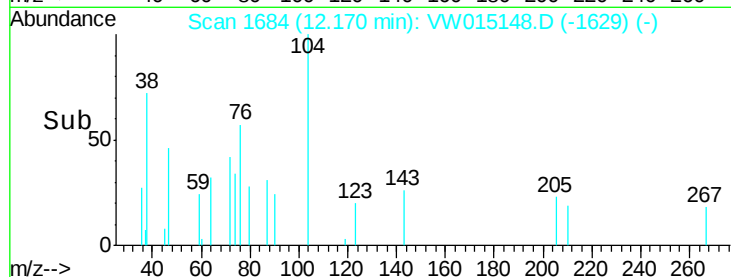
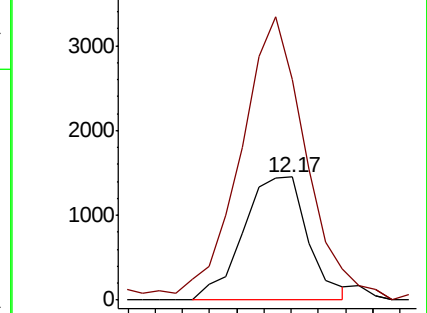
106 100

91 179.8 158.6 294.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#57

Isopropylbenzene

Concen: 1.492 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015148.D

Acq: 26 Mar 2020 14:16

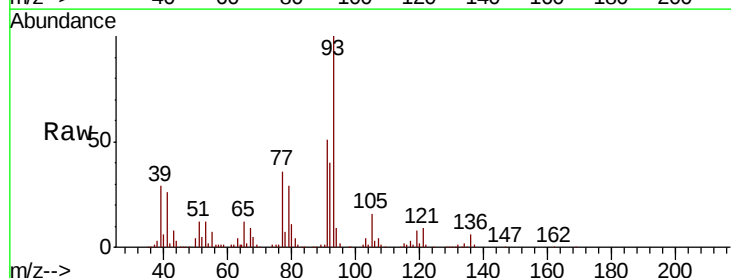
Tgt Ion:105 Resp: 11025

Ion Ratio Lower Upper

105 100

120 15.8 20.0 30.0#

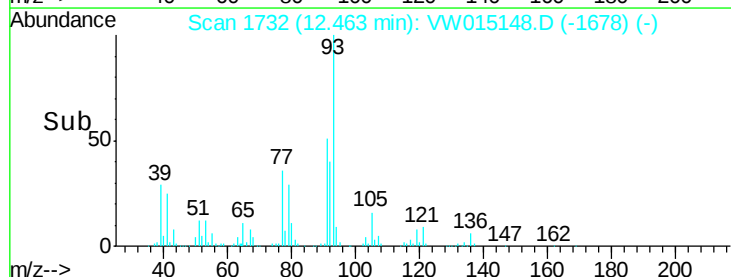
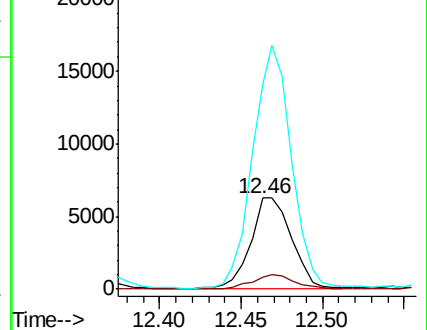
77 251.8 14.5 21.7#

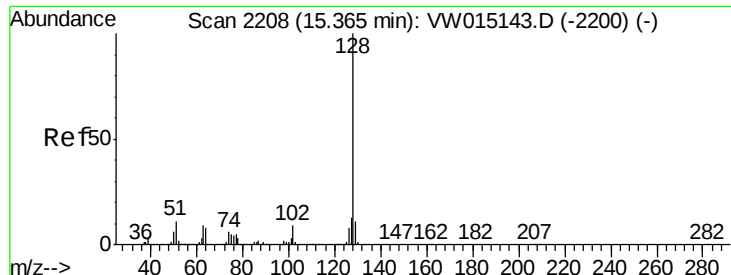


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#69

Naphthalene

Concen: 0.796 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW015148.D

Acq: 26 Mar 2020 14:16

Instrument :

MSVOA\_W

ClientSampleId :

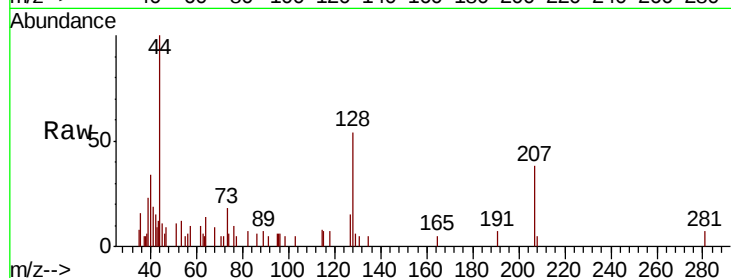
Tot Ion:128 Resp: 835

Ion Ratio Lower Upper

128 100

129 3.1 8.9 13.3#

127 19.5 11.0 16.4#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

