

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120919\  
 Data File : VD064479.D  
 Acq On : 09 Dec 2019 19:14  
 Operator : VA/SY  
 Sample : K6205-07  
 Misc : 5.07G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Dec 10 02:46:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 29 07:18:03 2019  
 Response via : Initial Calibration

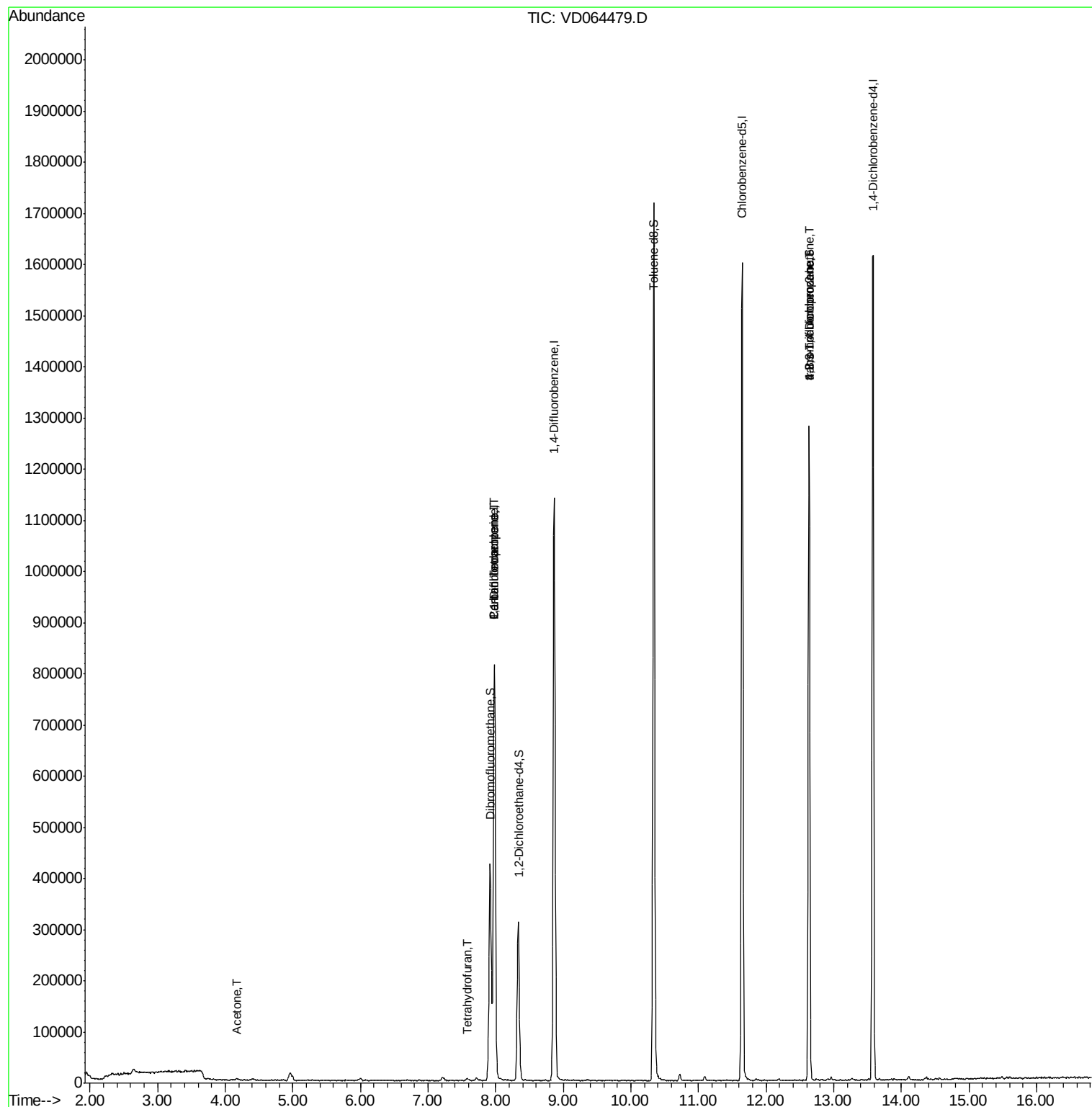
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 654031   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 991256   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 928522   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 450764   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.33  | 65   | 249106   | 42.08     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 84.16%  |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 291479   | 46.67     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 93.34%  |          |
| 50) Toluene-d8                 | 10.34 | 98   | 1191761  | 50.66     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 101.32% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 390996   | 51.72     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.44% |          |
| Target Compounds               |       |      |          |           |         |          |
| 16) Acetone                    | 4.17  | 43   | 3825     | 3.197     | ug/l    | 96       |
| 20) Methylene Chloride         | 4.96  | 84   | 11332    | Below Cal | #       | 91       |
| 29) Tetrahydrofuran            | 7.58  | 42   | 2868     | 2.665     | ug/l #  | 80       |
| 31) Cyclohexane                | 7.98  | 56   | 12972    | Below Cal | #       | 16       |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 43980    | 4.691     | ug/l #  | 45       |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 60043    | 6.068     | ug/l #  | 14       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 204010   | 55.035    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 204010   | 120.004   | ug/l #  | 9        |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 428      | Below Cal | #       | 1        |

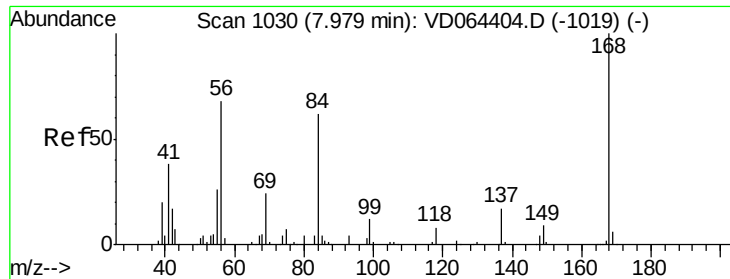
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD120919\  
Data File : VD064479.D  
Acq On : 09 Dec 2019 19:14  
Operator : VA/SY  
Sample : K6205-07  
Misc : 5.07G/5.00ml/MSVOA D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Dec 10 02:46:31 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D112719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 29 07:18:03 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064479.D

Acq: 09 Dec 2019 19:14

Instrument :

MSVOA\_D

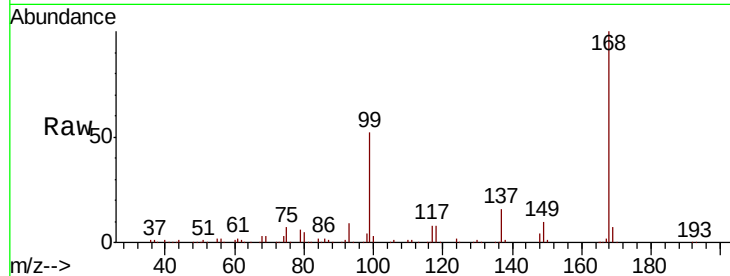
ClientSampleId :

Tot Ion:168 Resp: 654031

Ion Ratio Lower Upper

168 100

99 52.4 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

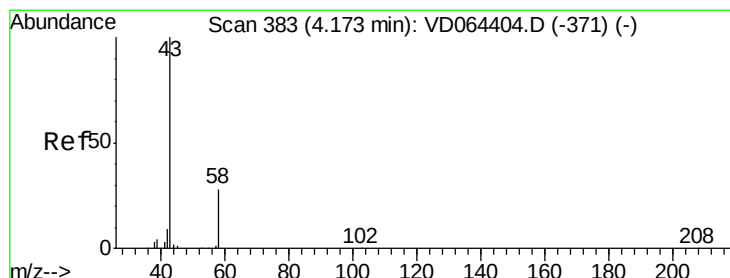
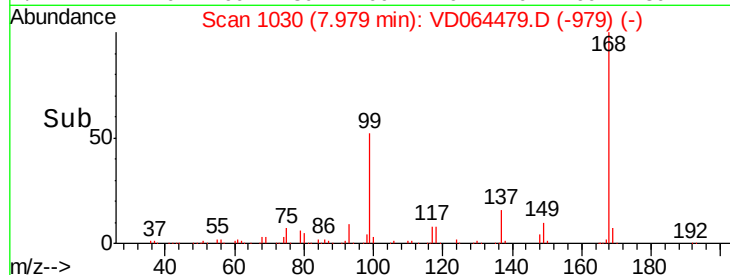
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 3.197 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064479.D

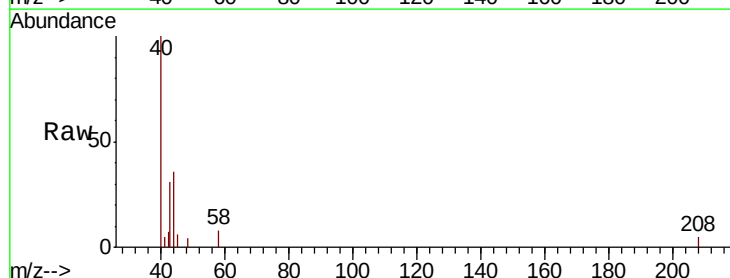
Acq: 09 Dec 2019 19:14

Tgt Ion: 43 Resp: 3825

Ion Ratio Lower Upper

43 100

58 25.9 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

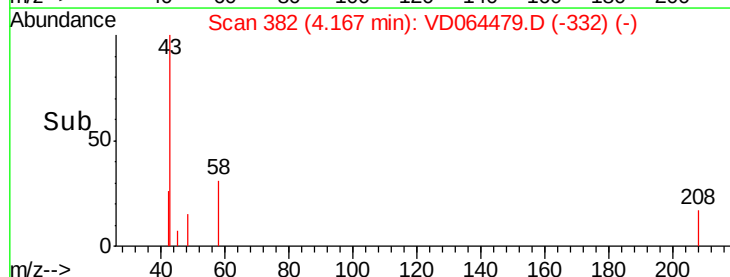
1500

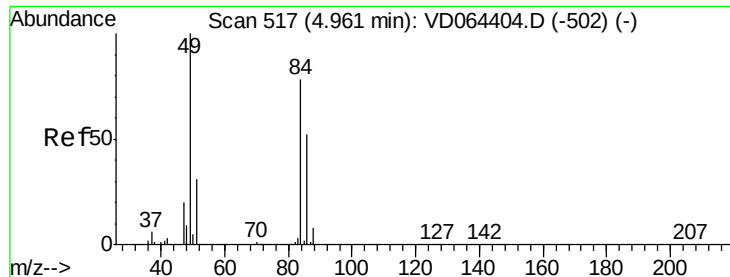
1000

500

0

Time-->

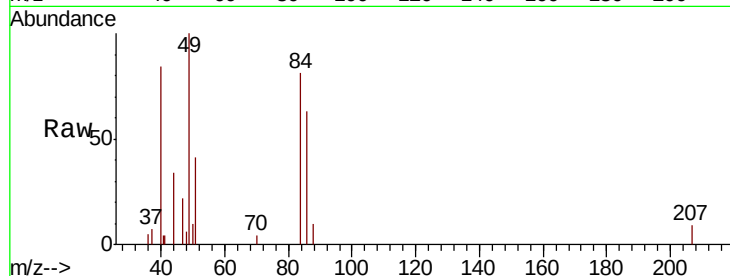




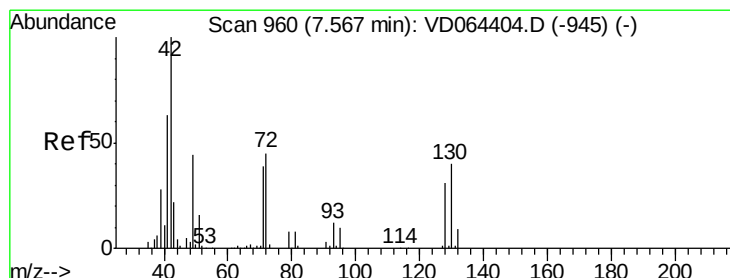
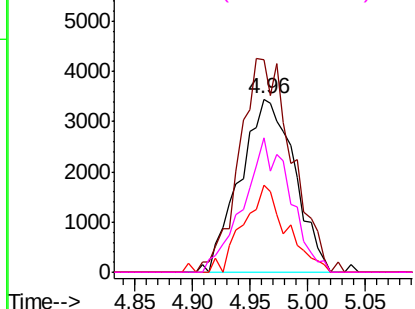
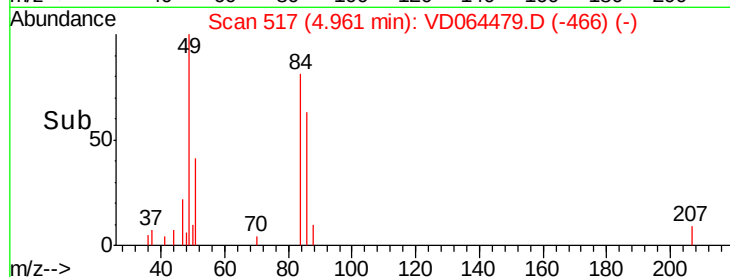
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.96 min Scan# 517  
Delta R.T. 0.00 min  
Lab File: VD064479.D  
Acq: 09 Dec 2019 19:14

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 84 Resp: 11332  
Ion Ratio Lower Upper  
84 100  
49 123.1 102.6 153.8  
51 50.0 32.0 48.0#  
86 77.5 53.4 80.0

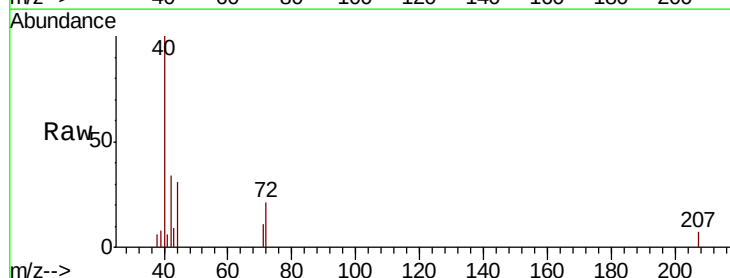


Abundance Ion 83.90 (83.60 to 84.60): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

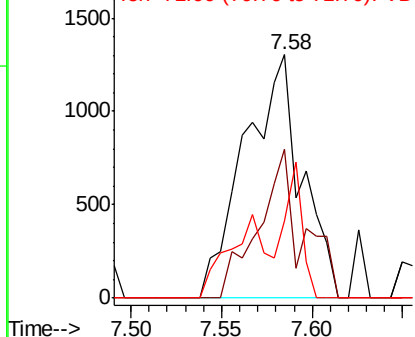
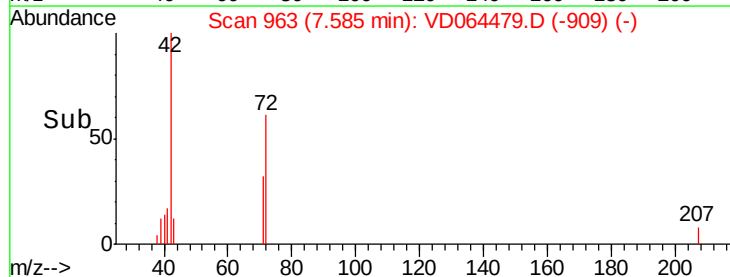


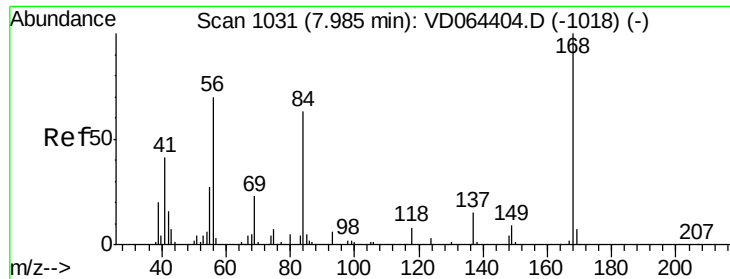
#29  
Tetrahydrofuran  
Concen: 2.665 ug/l  
RT: 7.58 min Scan# 963  
Delta R.T. 0.02 min  
Lab File: VD064479.D  
Acq: 09 Dec 2019 19:14

Tgt Ion: 42 Resp: 2868  
Ion Ratio Lower Upper  
42 100  
72 46.7 35.8 53.8  
71 16.5 32.7 49.1#



Abundance Ion 42.00 (41.70 to 42.70): VDC  
Ion 72.00 (71.70 to 72.70): VDC  
Ion 71.00 (70.70 to 71.70): VDC

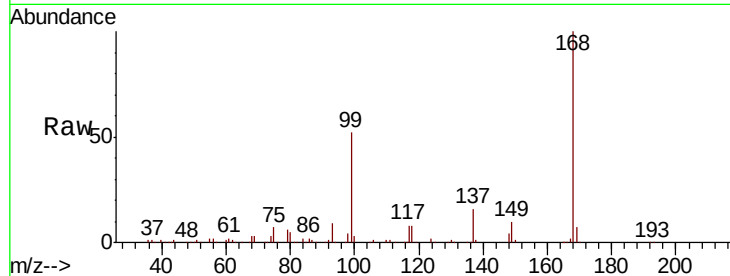




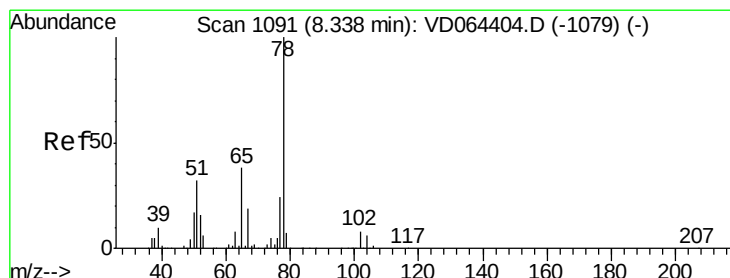
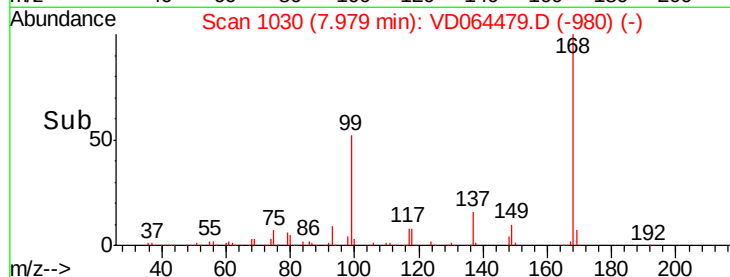
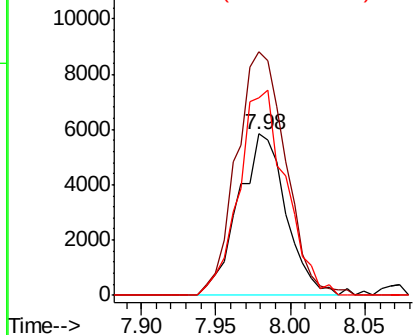
#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD064479.D  
Acq: 09 Dec 2019 19:14

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 56 Resp: 12972  
Ion Ratio Lower Upper  
56 100  
69 150.8 26.2 39.4#  
84 122.0 70.3 105.5#

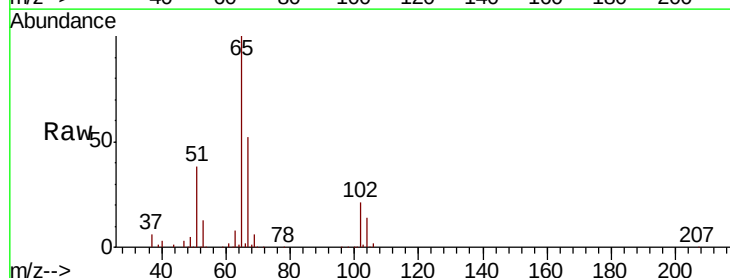


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

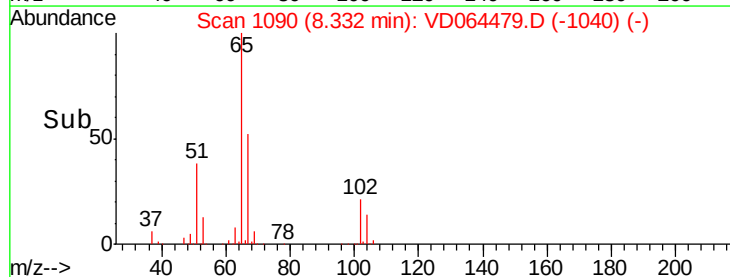
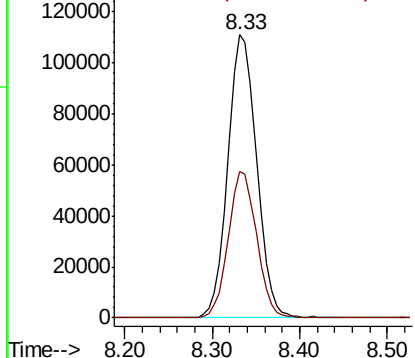


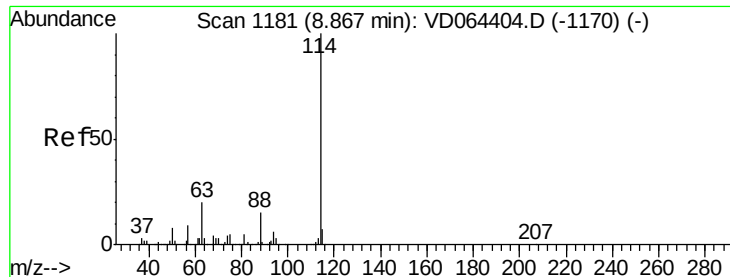
#33  
1,2-Dichloroethane-d4  
Concen: 42.079 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. -0.01 min  
Lab File: VD064479.D  
Acq: 09 Dec 2019 19:14

Tgt Ion: 65 Resp: 249106  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

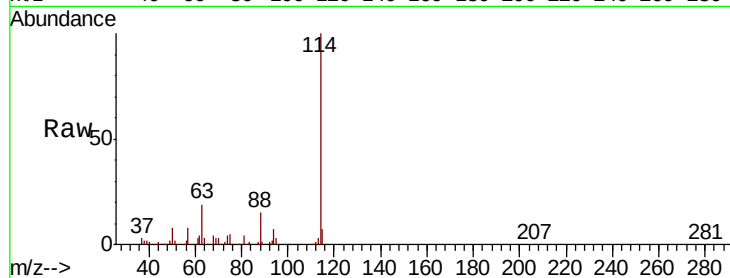




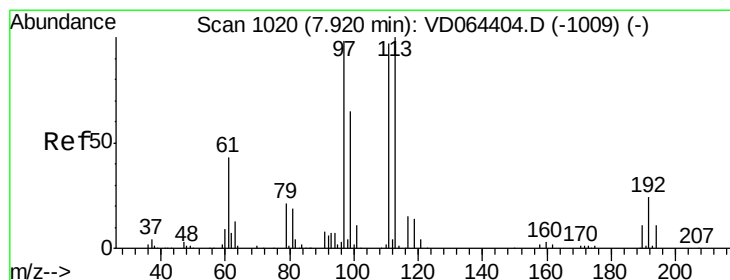
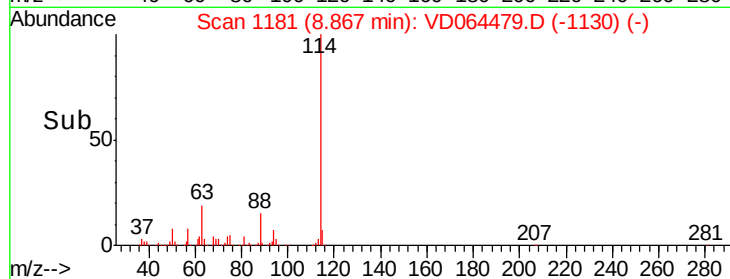
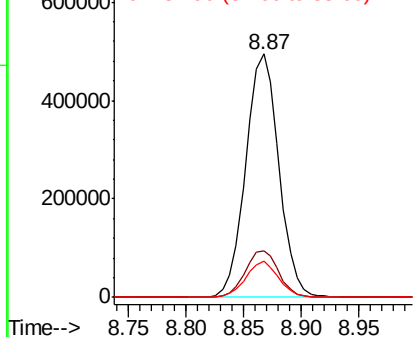
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD064479.D  
 Acq: 09 Dec 2019 19:14

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.3  | 0.0   | 40.0  |
| 88      | 14.7  | 0.0   | 29.2  |

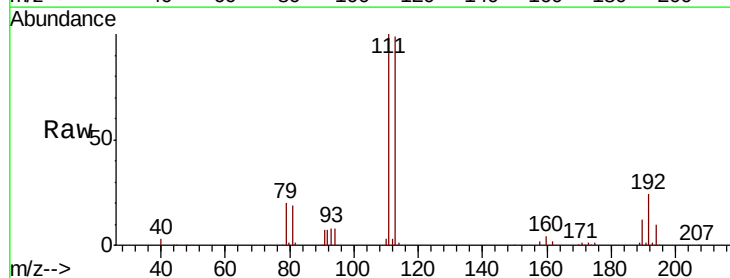


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

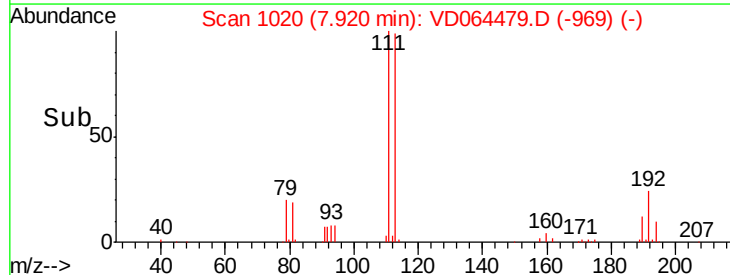
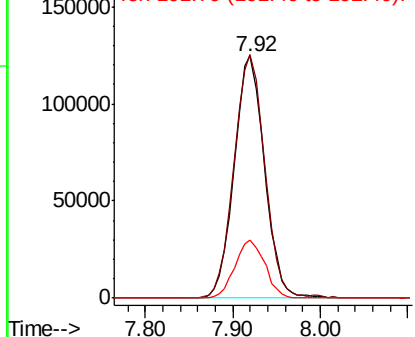


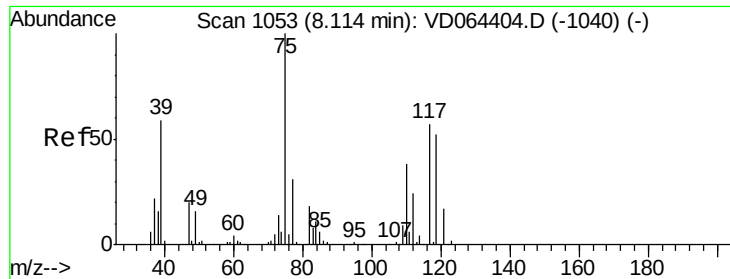
#35  
 Dibromofluoromethane  
 Concen: 46.671 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD064479.D  
 Acq: 09 Dec 2019 19:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 79.4  | 119.2 |
| 192     | 23.7  | 18.6  | 28.0  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

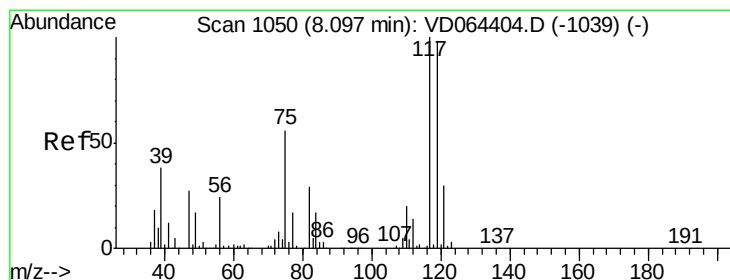
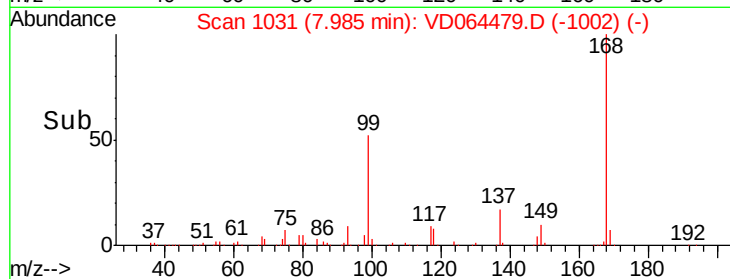
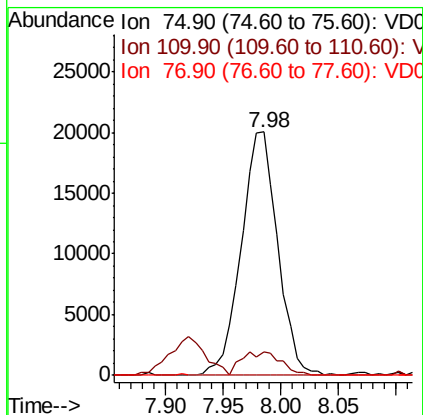
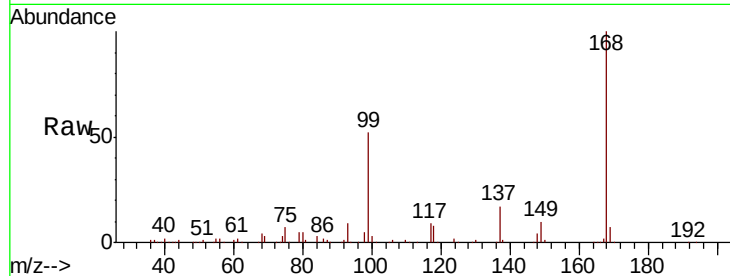




#36  
 1,1-Dichloropropene  
 Concen: 4.691 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.13 min  
 Lab File: VD064479.D  
 Acq: 09 Dec 2019 19:14

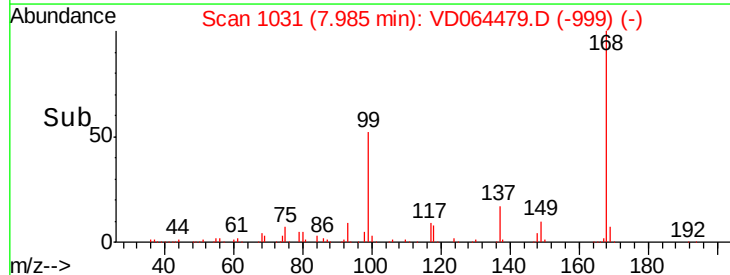
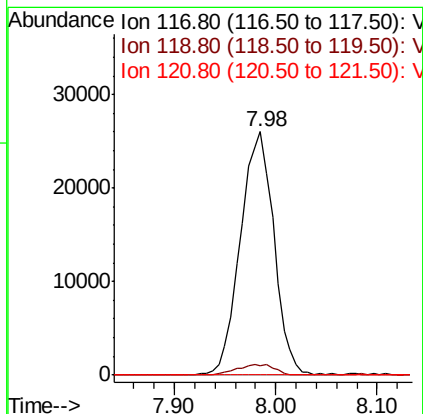
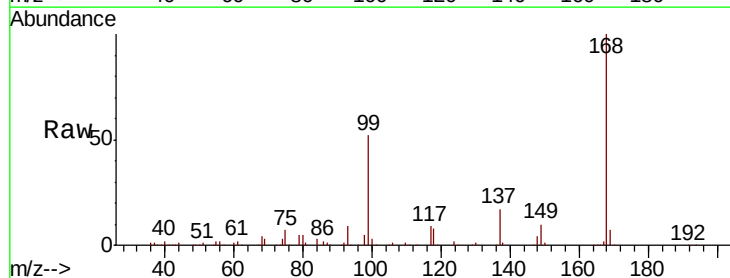
Instrument :  
 MSVOA\_D  
 ClientSampled :

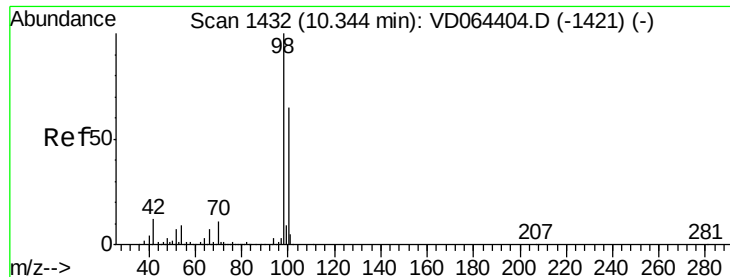
Tot Ion: 75 Resp: 43980  
 Ion Ratio Lower Upper  
 75 100  
 110 4.8 18.6 55.8#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.068 ug/l  
 RT: 7.98 min Scan# 1031  
 Delta R.T. -0.11 min  
 Lab File: VD064479.D  
 Acq: 09 Dec 2019 19:14

Tgt Ion: 117 Resp: 60043  
 Ion Ratio Lower Upper  
 117 100  
 119 3.9 78.8 118.2#  
 121 0.0 24.2 36.2#





#50

Toluene-d8

Concen: 50.658 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064479.D

Acq: 09 Dec 2019 19:14

Instrument :

MSVOA\_D

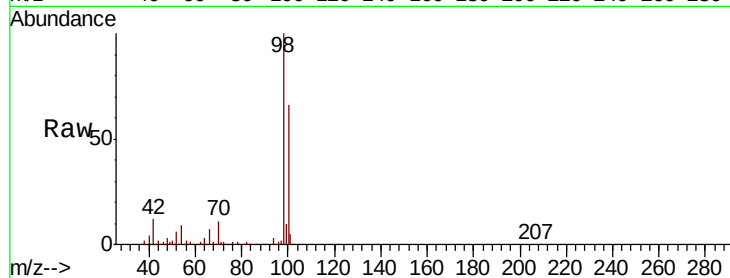
ClientSampleId :

Tot Ion: 98 Resp: 1191761

Ion Ratio Lower Upper

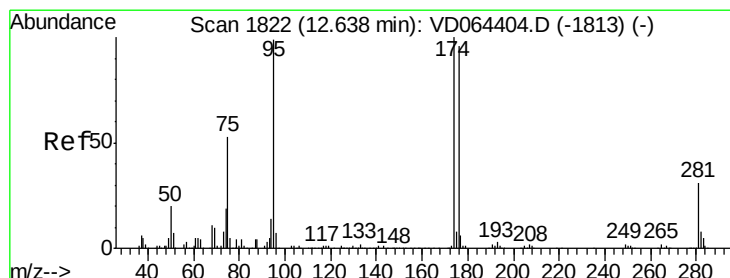
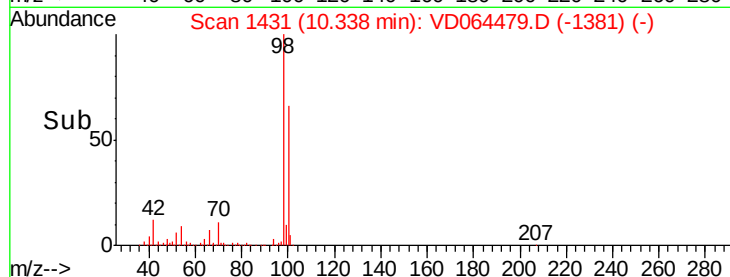
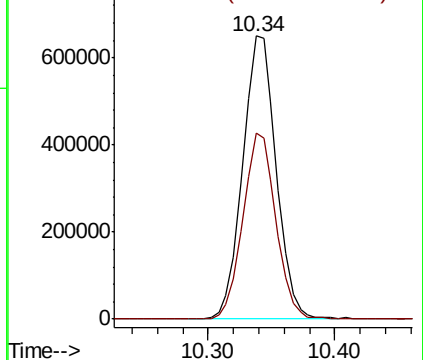
98 100

100 64.7 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 51.715 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064479.D

Acq: 09 Dec 2019 19:14

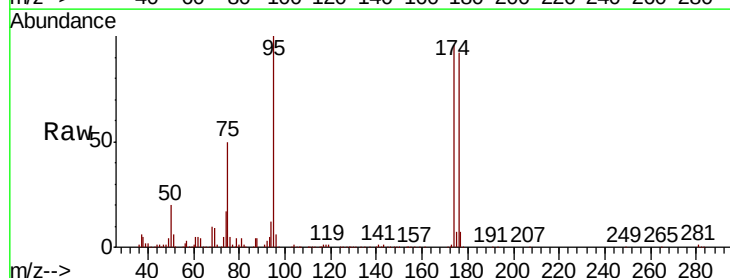
Tgt Ion: 95 Resp: 390996

Ion Ratio Lower Upper

95 100

174 96.1 0.0 197.2

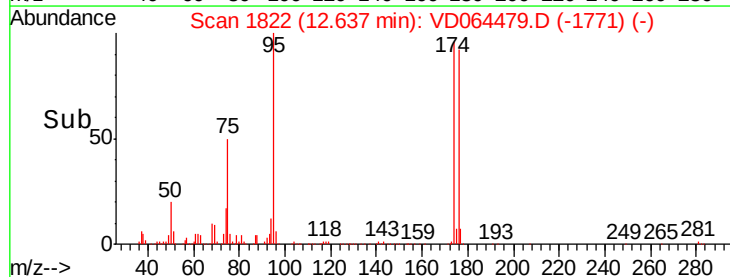
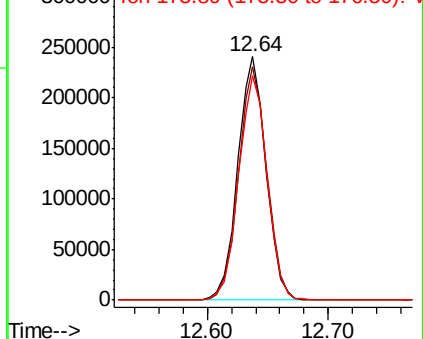
176 93.2 0.0 189.6



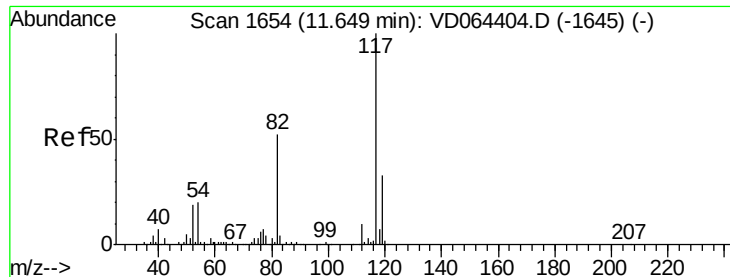
Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC



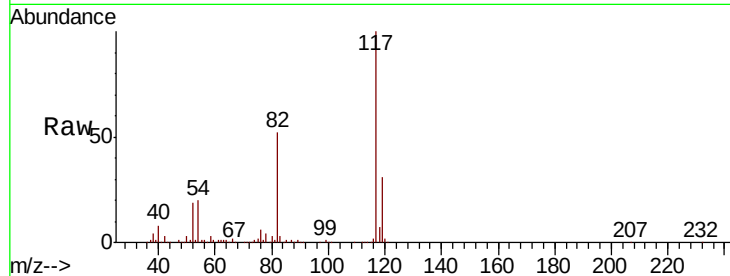




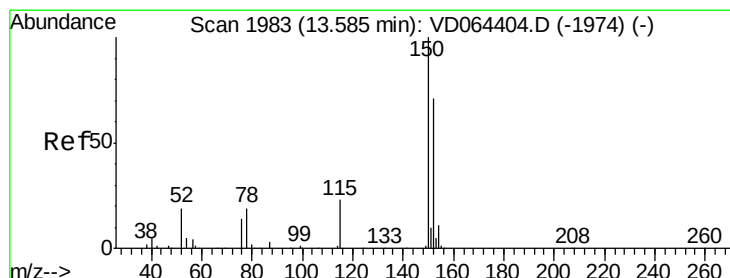
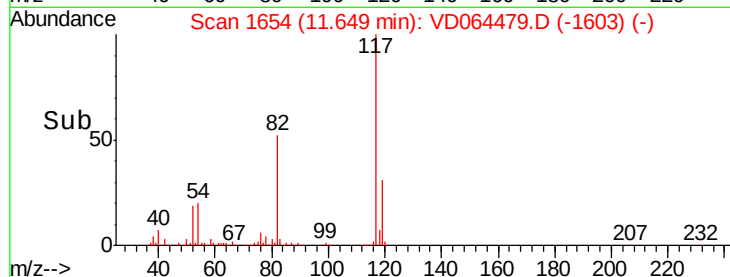
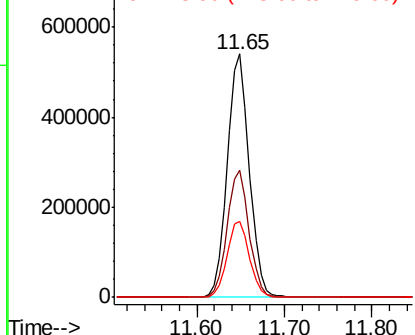
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD064479.D  
Acq: 09 Dec 2019 19:14

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 928522  
Ion Ratio Lower Upper  
117 100  
82 52.1 41.4 62.2  
119 31.3 26.2 39.2

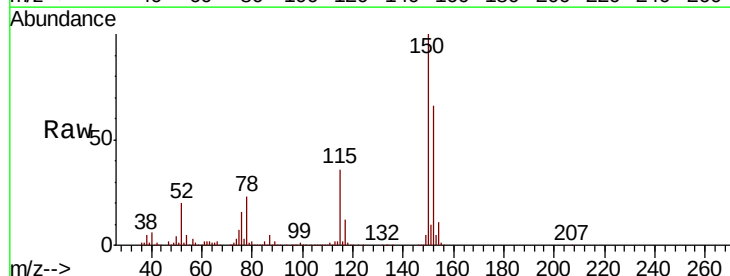


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

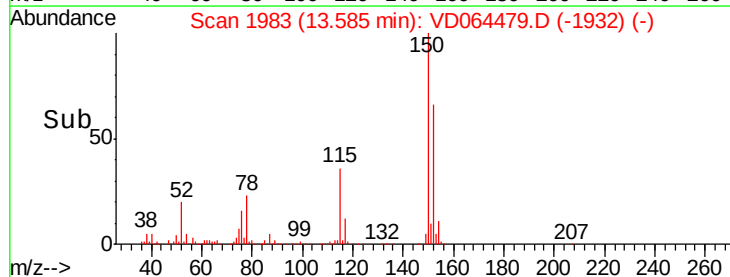
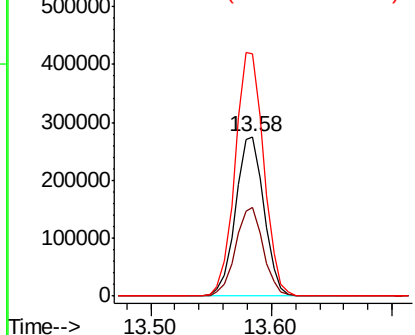


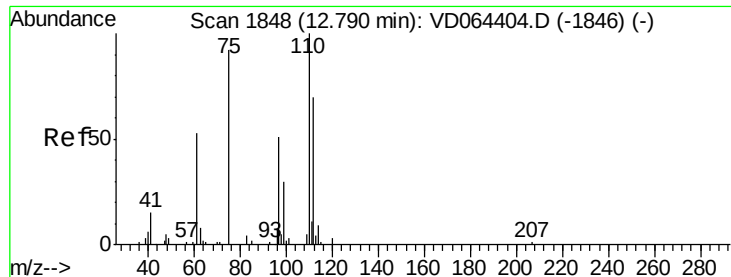
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD064479.D  
Acq: 09 Dec 2019 19:14

Tgt Ion:152 Resp: 450764  
Ion Ratio Lower Upper  
152 100  
115 54.5 26.7 80.1  
150 154.4 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 55.035 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064479.D

Acq: 09 Dec 2019 19:14

Instrument :

MSVOA\_D

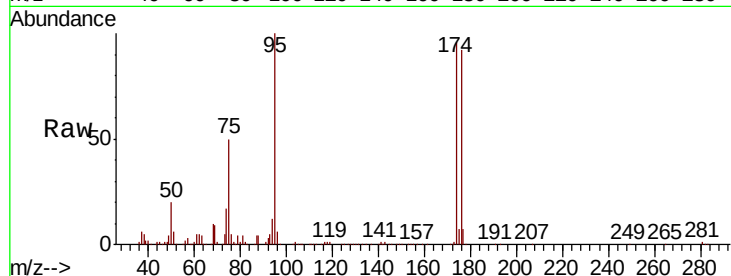
ClientSampled :

Tot Ion: 75 Resp: 204010

Ion Ratio Lower Upper

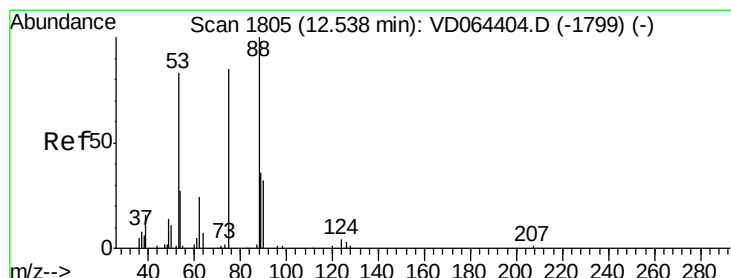
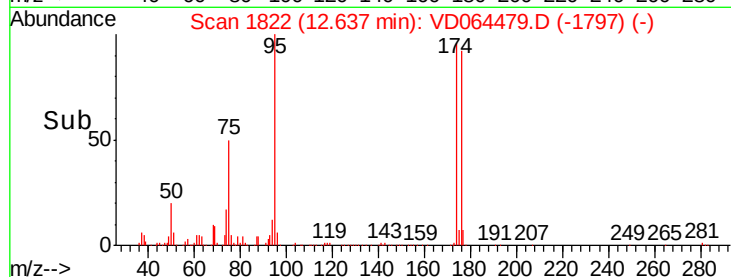
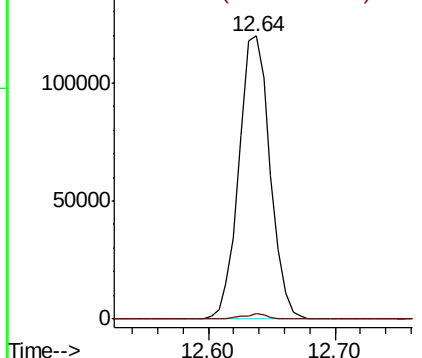
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 120.004 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064479.D

Acq: 09 Dec 2019 19:14

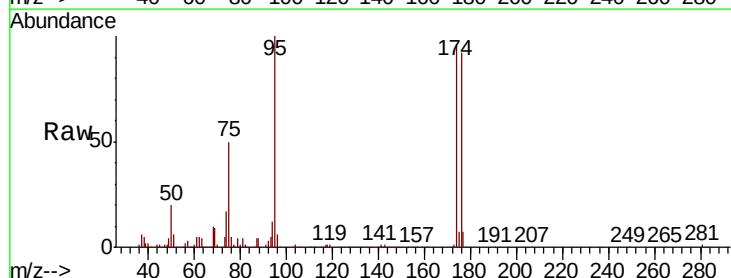
Tgt Ion: 75 Resp: 204010

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

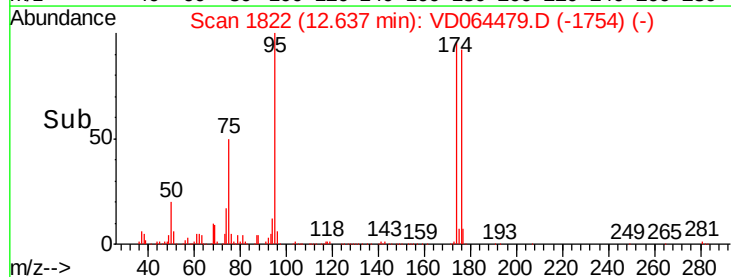
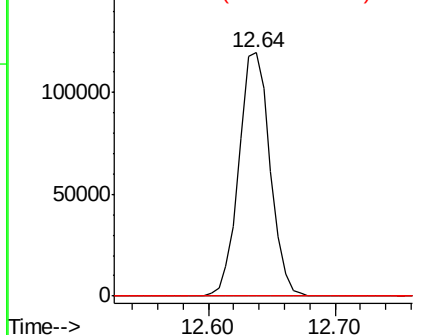
89 0.0 38.5 57.7#

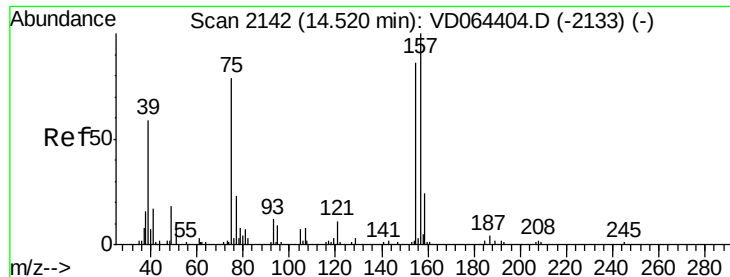


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.51 min Scan# 2141

Delta R.T. -0.01 min

Lab File: VD064479.D

Acq: 09 Dec 2019 19:14

Instrument :

MSVOA\_D

ClientSampleId :

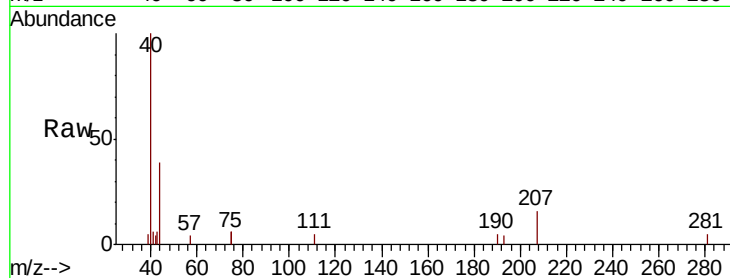
Tot Ion: 75 Resp: 428

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

157 0.0 63.2 189.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

