

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012020\
 Data File : VD064888.D
 Acq On : 20 Jan 2020 14:09
 Operator : VA/SY
 Sample : L1176-14RE
 Misc : 5.28G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 21 04:09:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	379075	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	630728	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	590808	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	277288	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	204200	61.09	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	122.18%	
35) Dibromofluoromethane	7.92	113	203462	52.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.16%	
50) Toluene-d8	10.34	98	771328	52.05	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.10%	
62) 4-Bromofluorobenzene	12.64	95	248078	52.94	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.88%	

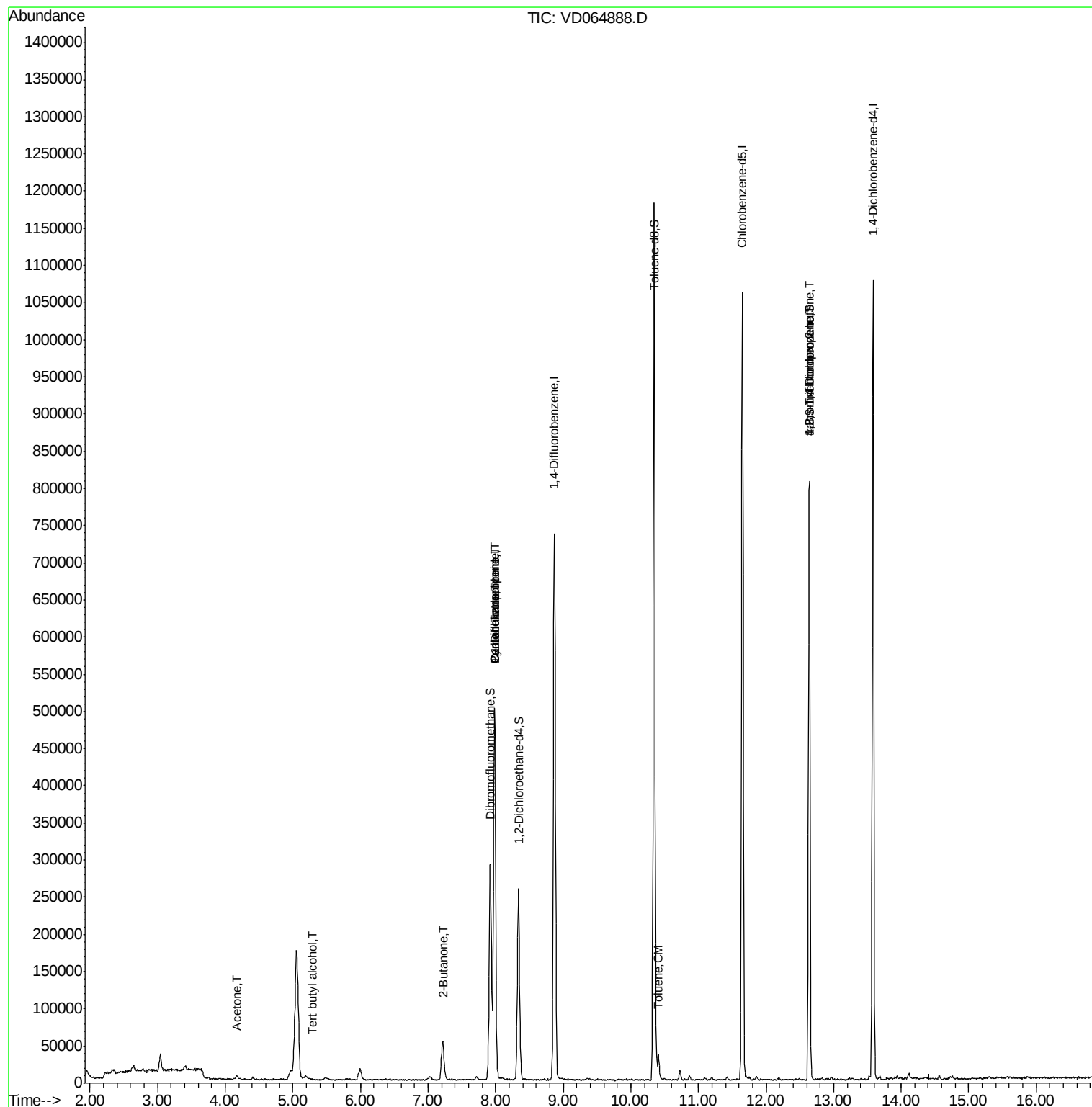
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.29	59	276	1.441	ug/l #	70
16) Acetone	4.17	43	7996	14.205	ug/l #	71
20) Methylene Chloride	4.96	84	8388	Below Cal		94
25) 2-Butanone	7.23	43	3349	3.645	ug/l #	81
31) Cyclohexane	7.98	56	9713	1.558	ug/l #	40
36) 1,1-Dichloropropene	7.98	75	28770	4.739	ug/l #	48
38) Carbon Tetrachloride	7.98	117	38077	5.882	ug/l #	16
52) Toluene	10.41	92	11670	1.073	ug/l	93
76) 1,2,3-Trichloropropane	12.64	75	130861	59.764	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	130861	124.994	ug/l #	10

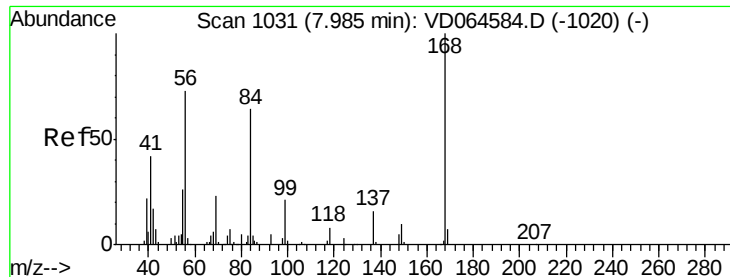
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Instrument :

MSVOA_D

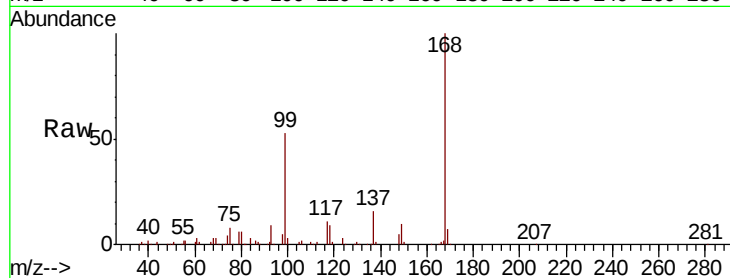
ClientSampleId :

Tot Ion:168 Resp: 379075

Ion Ratio Lower Upper

168 100

99 53.3 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

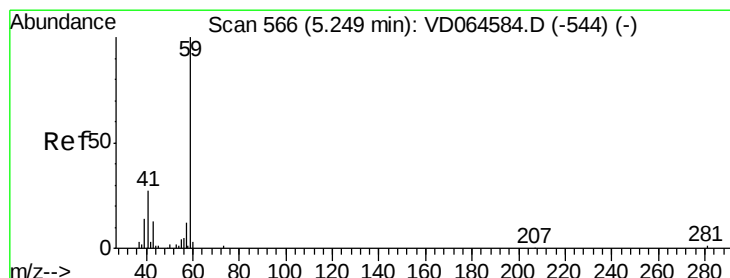
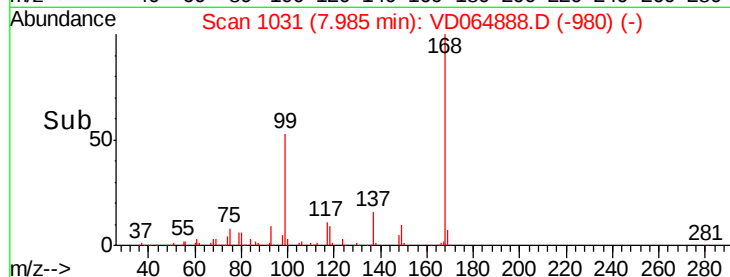
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.441 ug/l

RT: 5.29 min Scan# 572

Delta R.T. 0.04 min

Lab File: VD064888.D

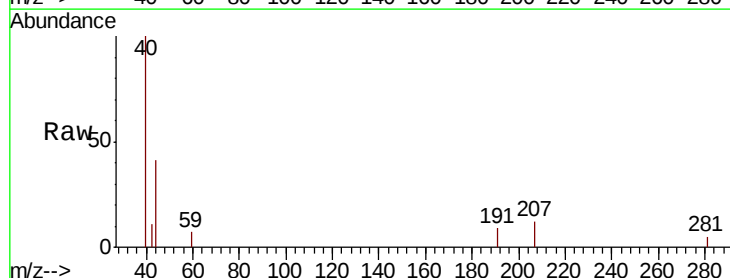
Acq: 20 Jan 2020 14:09

Tgt Ion: 59 Resp: 276

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

500

400

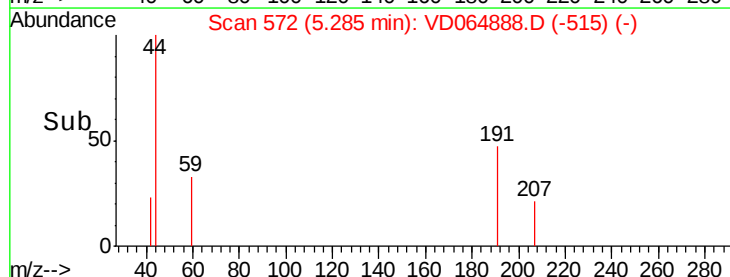
300

200

100

0

Time-->





#16

Acetone

Concen: 14.205 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Instrument :

MSVOA_D

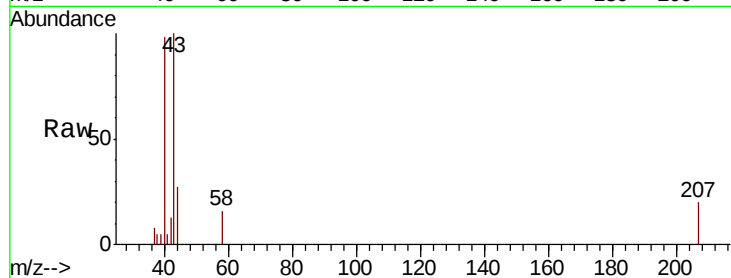
ClientSampleId :

Tot Ion: 43 Resp: 7996

Ion Ratio Lower Upper

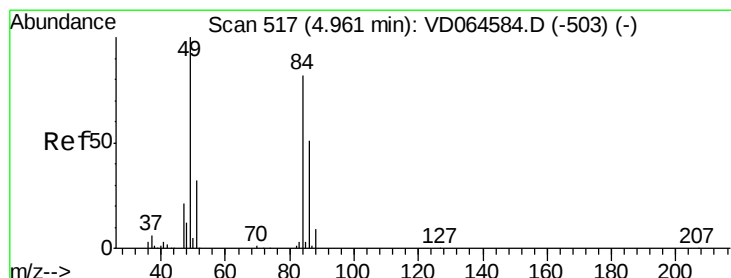
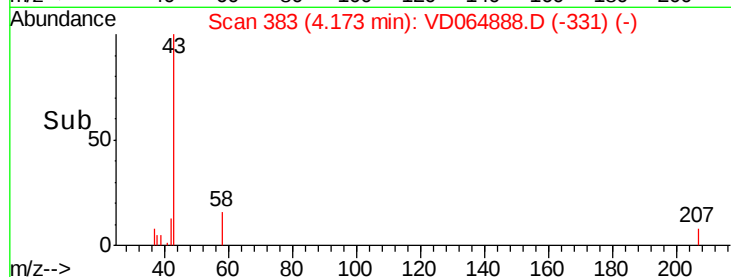
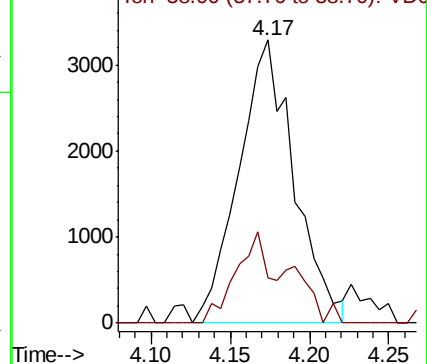
43 100

58 16.1 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Tgt Ion: 84 Resp: 8388

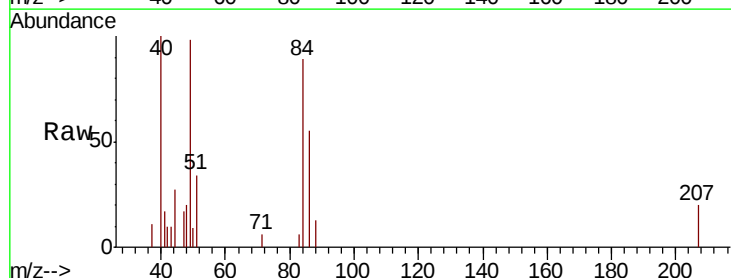
Ion Ratio Lower Upper

84 100

49 110.1 97.2 145.8

51 37.9 31.4 47.0

86 62.4 49.3 73.9

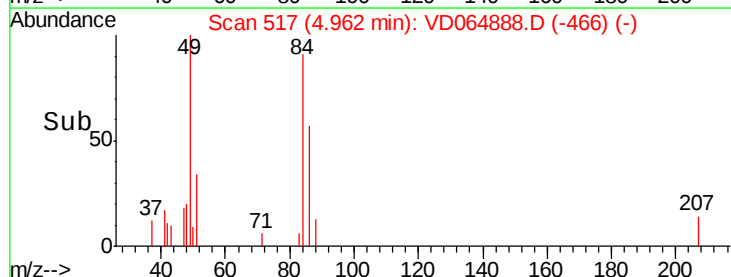
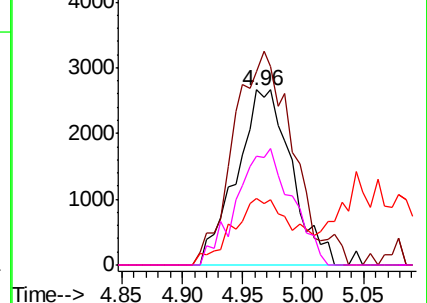


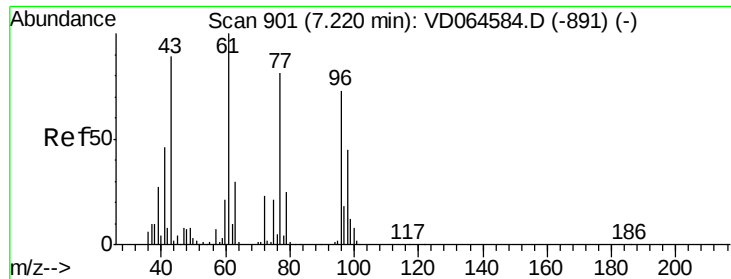
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 3.645 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Instrument :

MSVOA_D

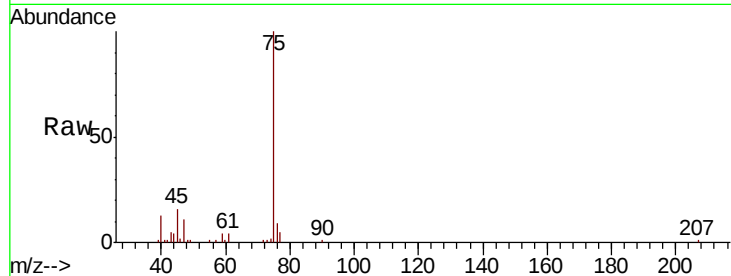
ClientSampleId :

Tot Ion: 43 Resp: 3349

Ion Ratio Lower Upper

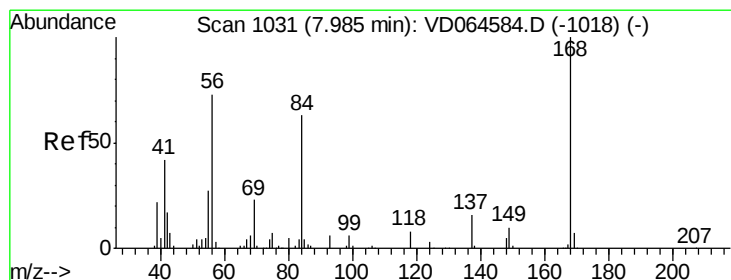
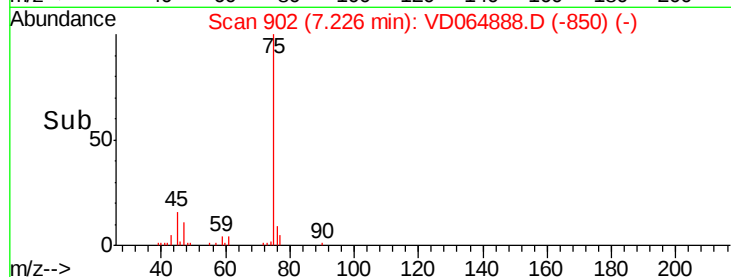
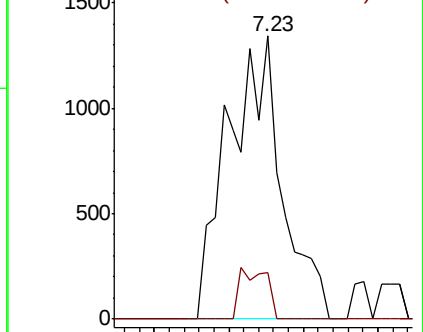
43 100

72 16.5 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.558 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

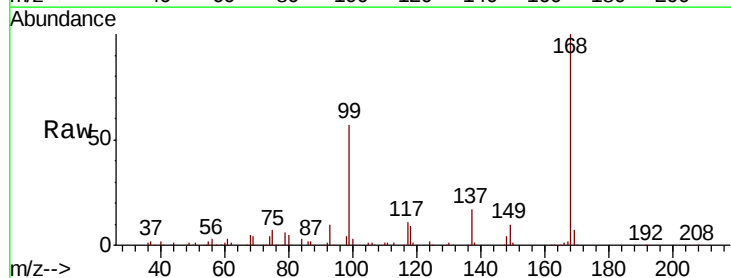
Tgt Ion: 56 Resp: 9713

Ion Ratio Lower Upper

56 100

69 134.5 24.7 37.1#

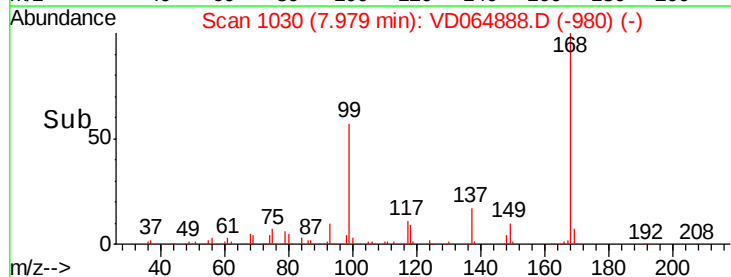
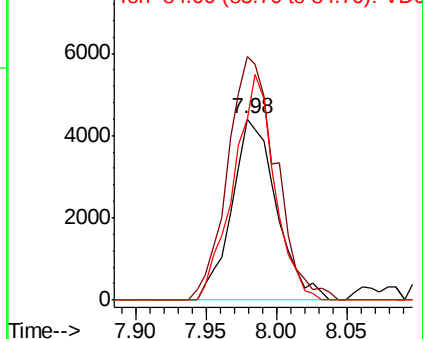
84 99.9 69.4 104.2

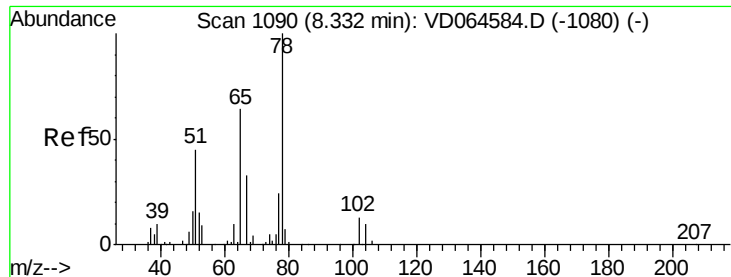


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 61.089 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Instrument :

MSVOA_D

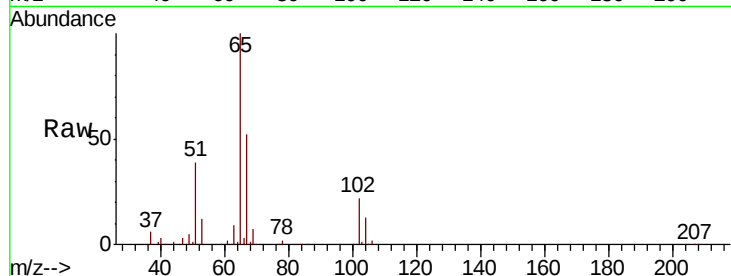
ClientSampled :

Tot Ion: 65 Resp: 204200

Ion Ratio Lower Upper

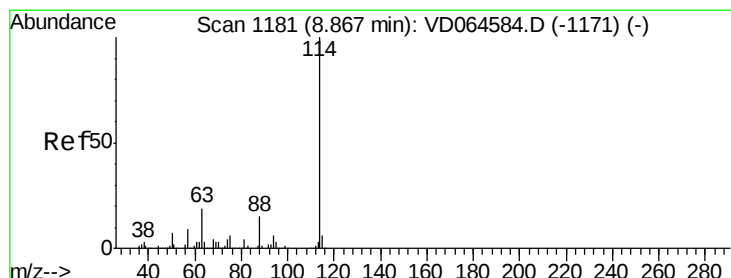
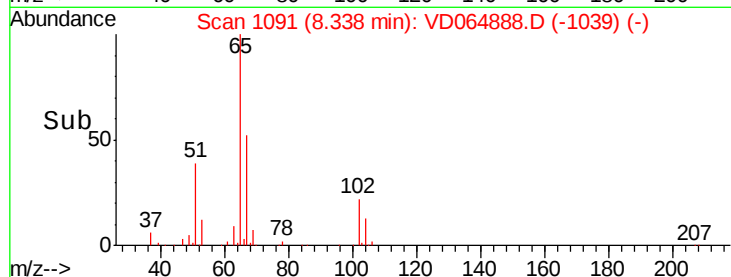
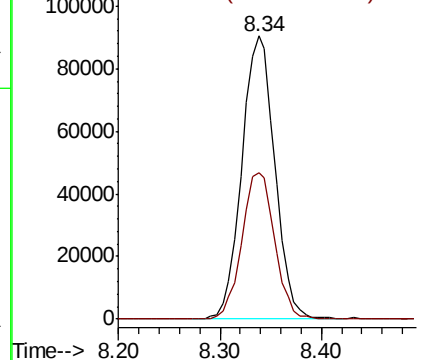
65 100

67 51.3 0.0 106.2



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: VD064888.D

Acq: 20 Jan 2020 14:09

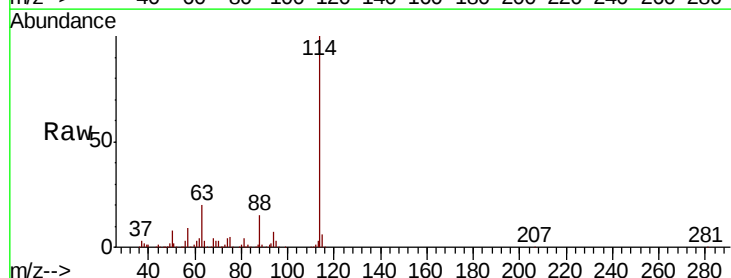
Tgt Ion: 114 Resp: 630728

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.0

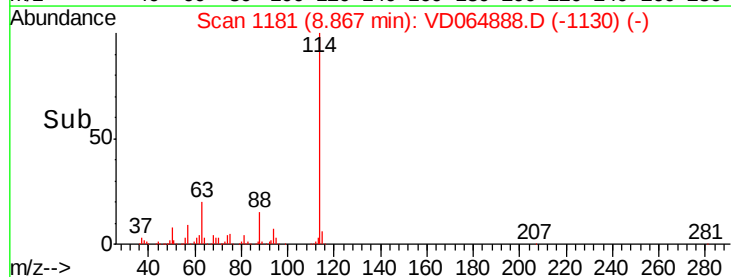
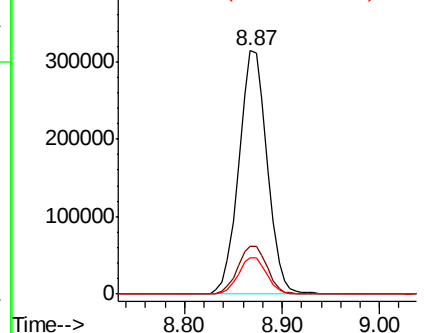
88 14.8 0.0 29.2

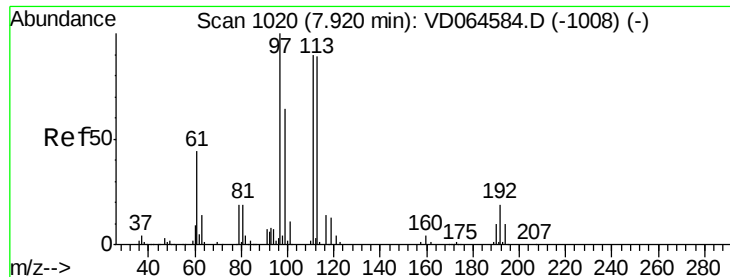


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 52.579 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Instrument :
MSVOA_D
ClientSampleId :

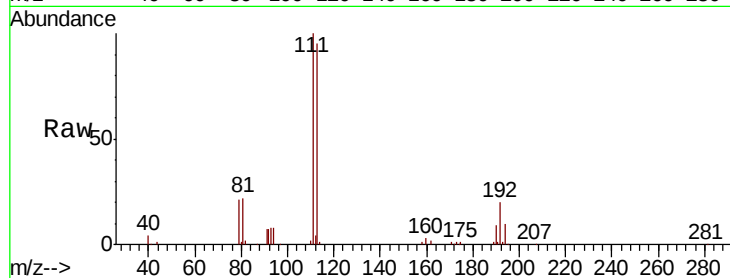
Tot Ion:113 Resp: 203462

Ion Ratio Lower Upper

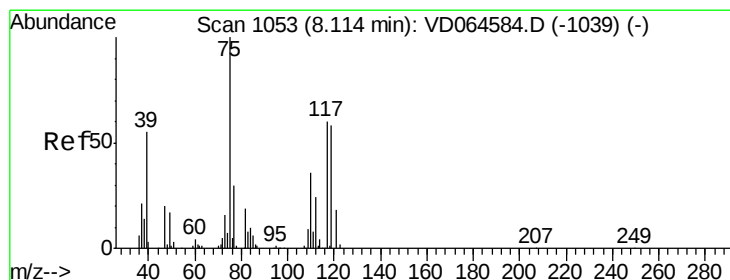
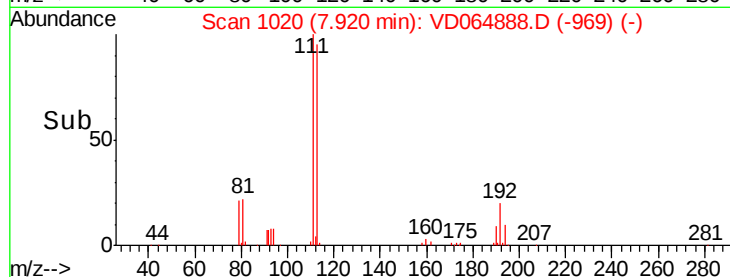
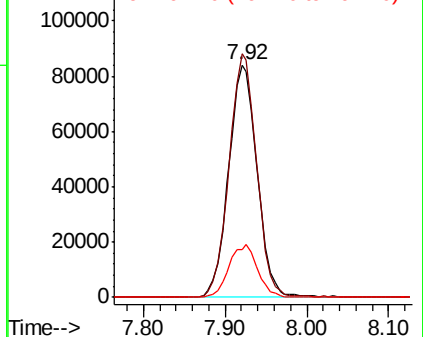
113 100

111 101.3 80.6 121.0

192 22.6 17.9 26.9



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: 4.739 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

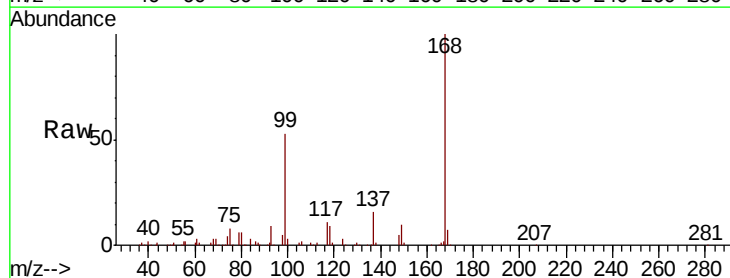
Tgt Ion: 75 Resp: 28770

Ion Ratio Lower Upper

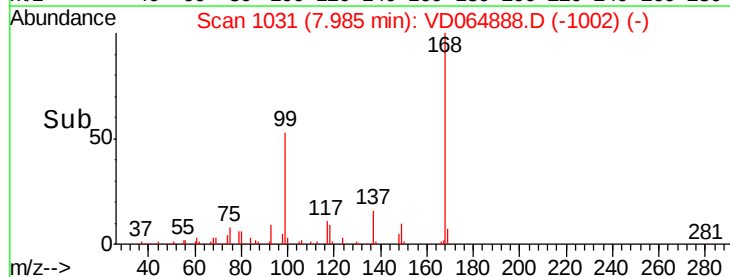
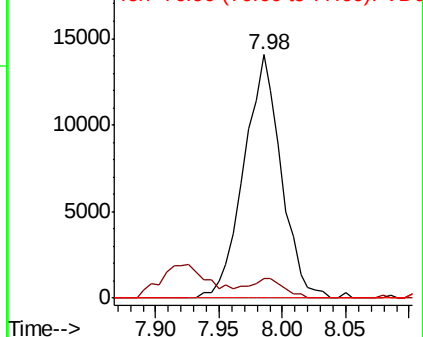
75 100

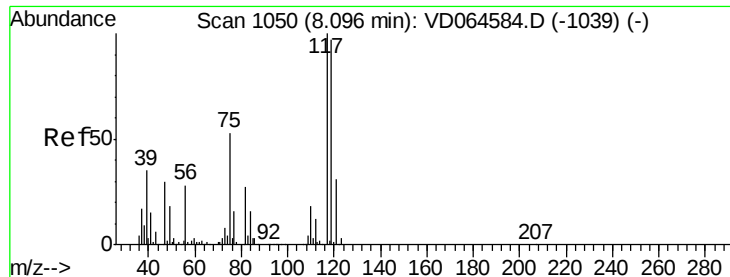
110 6.8 18.1 54.1#

77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VDC

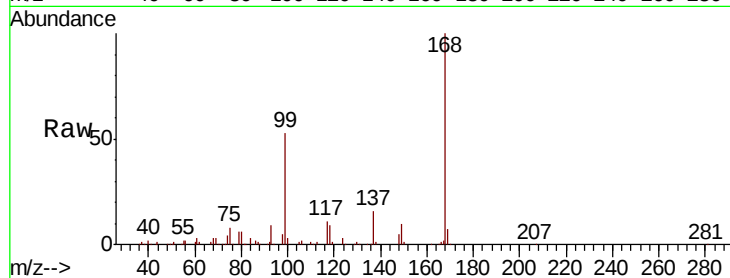




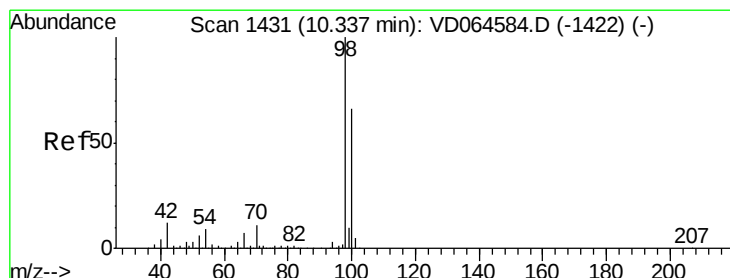
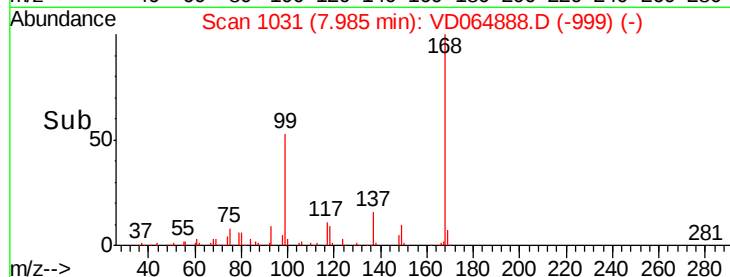
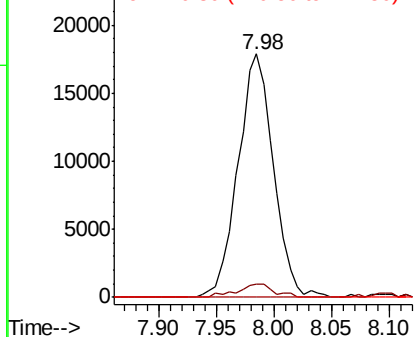
#38
Carbon Tetrachloride
Concen: 5.882 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064888.D
Acq: 20 Jan 2020 14:09

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:117 Resp: 38077
Ion Ratio Lower Upper
117 100
119 5.6 77.3 115.9#
121 0.0 25.0 37.6#

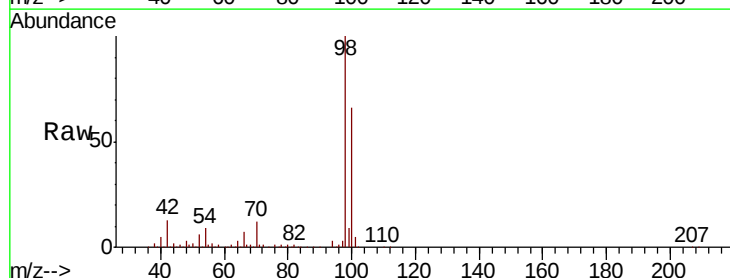


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

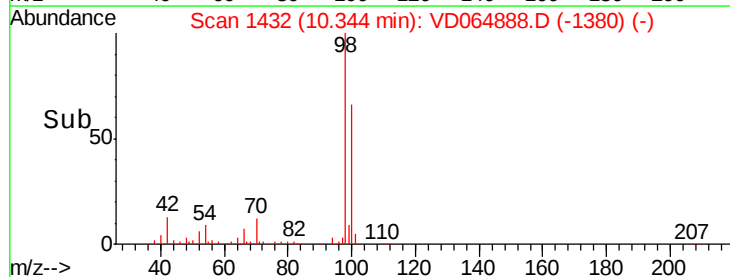
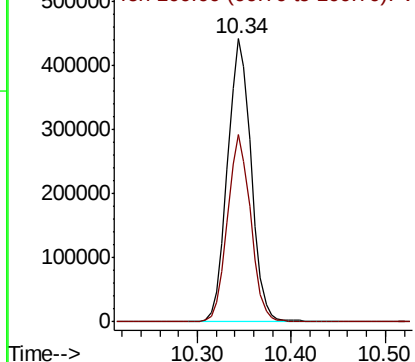


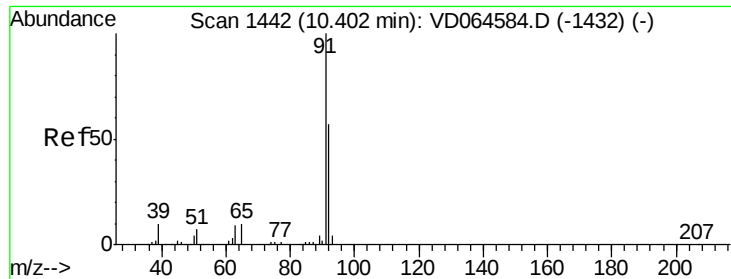
#50
Toluene-d8
Concen: 52.046 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064888.D
Acq: 20 Jan 2020 14:09

Tgt Ion: 98 Resp: 771328
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#52

Toluene

Concen: 1.073 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Instrument :

MSVOA_D

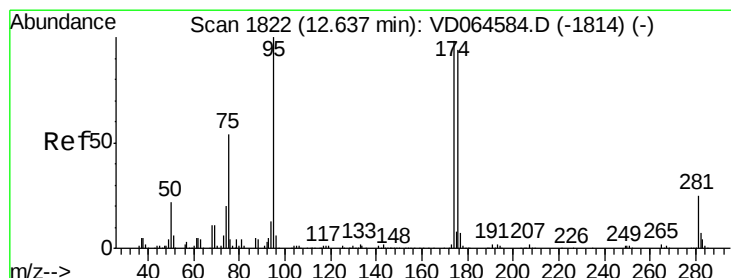
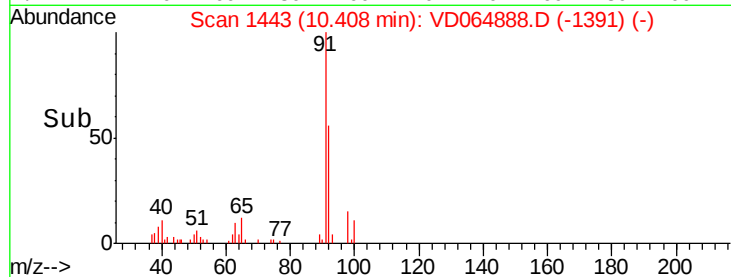
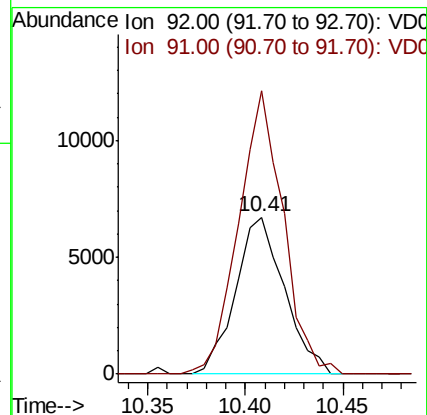
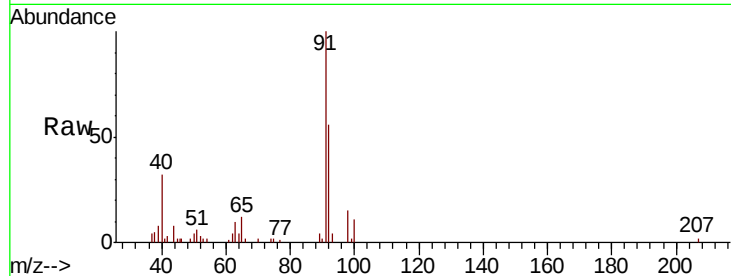
ClientSampled :

Tot Ion: 92 Resp: 11670

Ion Ratio Lower Upper

92 100

91 164.1 138.7 208.1



#62

4-Bromofluorobenzene

Concen: 52.937 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.01 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

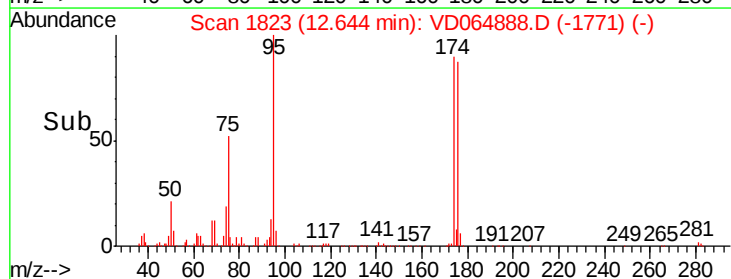
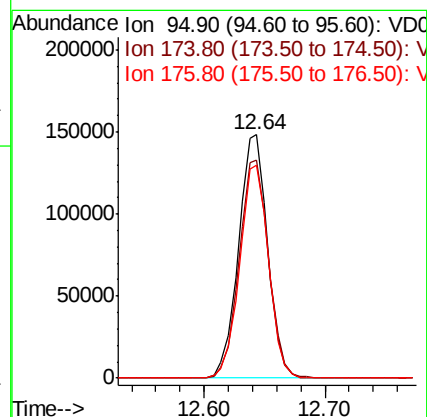
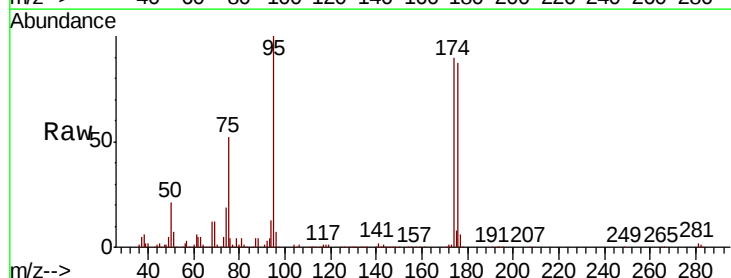
Tgt Ion: 95 Resp: 248078

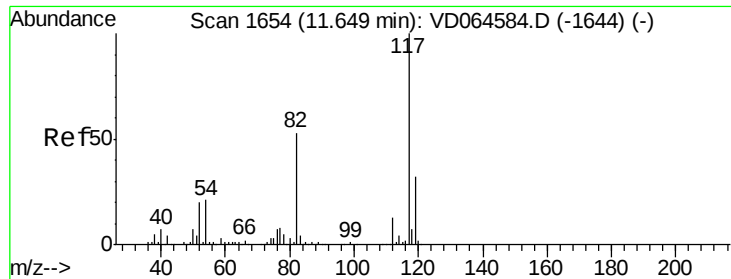
Ion Ratio Lower Upper

95 100

174 90.9 0.0 193.2

176 87.1 0.0 184.2

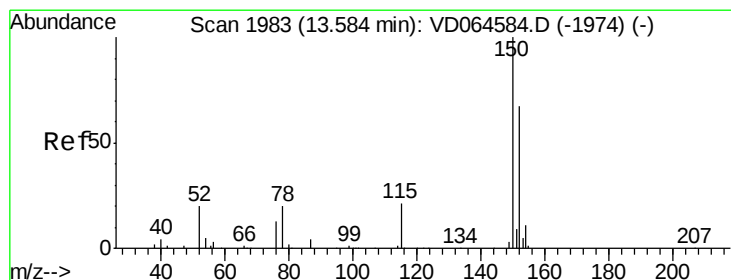
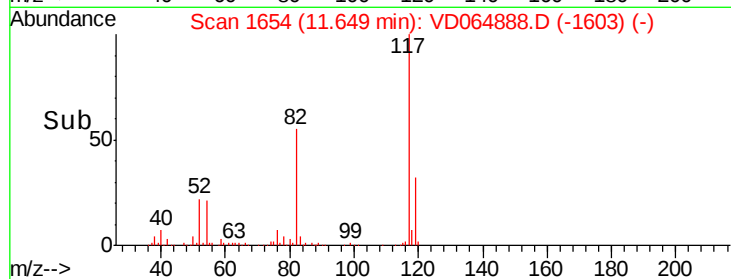
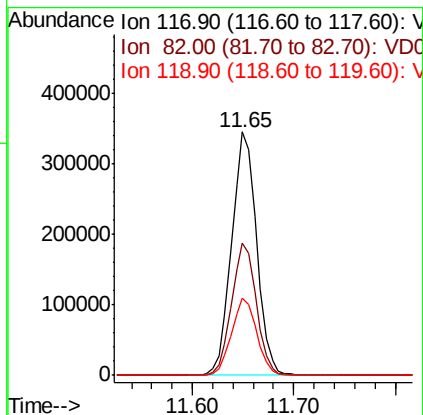
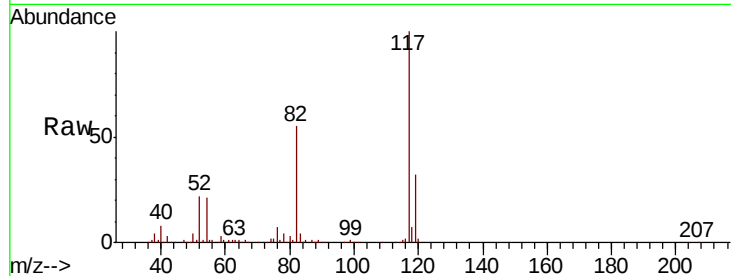




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064888.D
Acq: 20 Jan 2020 14:09

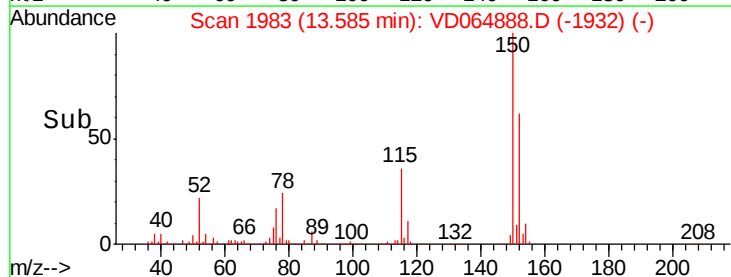
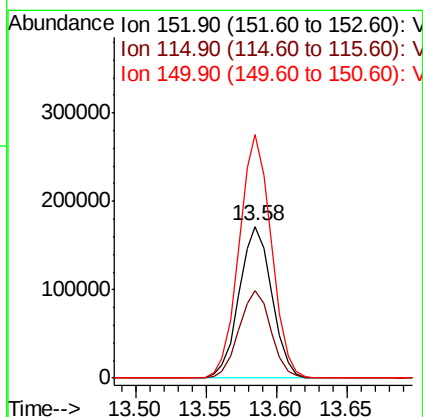
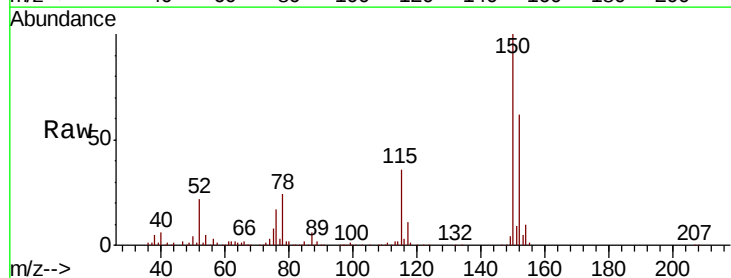
Instrument :
MSVOA_D
ClientSampled :

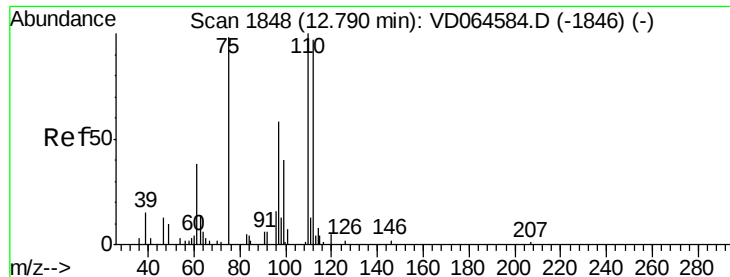
Tot Ion:117 Resp: 590808
Ion Ratio Lower Upper
117 100
82 54.6 42.2 63.4
119 31.8 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064888.D
Acq: 20 Jan 2020 14:09

Tgt Ion:152 Resp: 277288
Ion Ratio Lower Upper
152 100
115 56.4 27.8 83.4
150 158.2 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 59.764 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

Instrument :

MSVOA_D

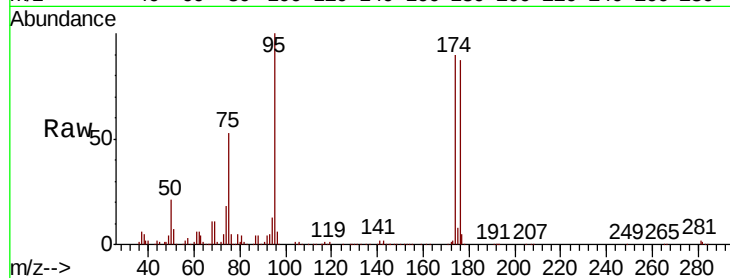
ClientSampleId :

Tot Ion: 75 Resp: 130861

Ion Ratio Lower Upper

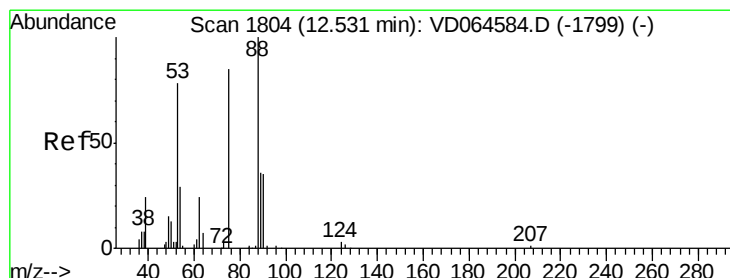
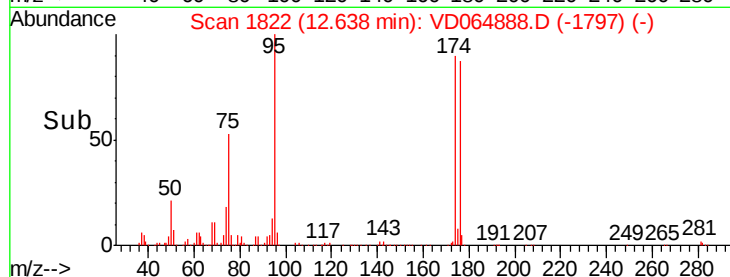
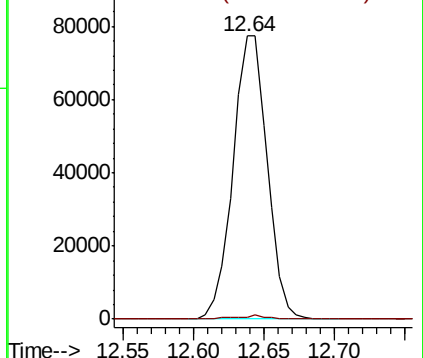
75 100

77 1.2 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: 124.994 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064888.D

Acq: 20 Jan 2020 14:09

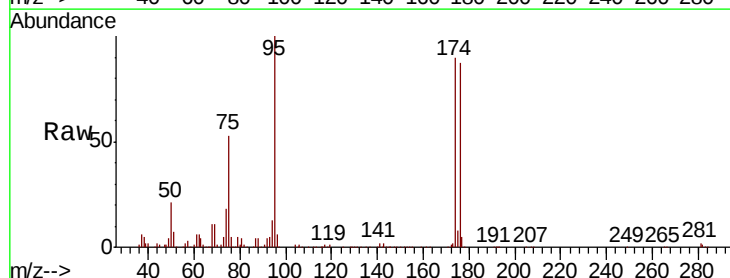
Tgt Ion: 75 Resp: 130861

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

89 0.1 38.3 57.5#



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

