

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058352.D
 Acq On : 23 Jun 2018 20:32
 Operator : VA/AP
 Sample : J3671-03
 Misc : 5.95g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:11:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	860787	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	1121555	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	968695	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	507236	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	312947	35.99	ug/l	0.03
Spiked Amount			Recovery	=	71.98%	
35) Dibromofluoromethane	5.57	113	327554	35.88	ug/l	0.02
Spiked Amount			Recovery	=	71.76%	
50) Toluene-d8	8.72	98	785937	35.59	ug/l	0.00
Spiked Amount			Recovery	=	71.18%	
62) 4-Bromofluorobenzene	11.94	95	337276	37.39	ug/l	0.00
Spiked Amount			Recovery	=	74.78%	

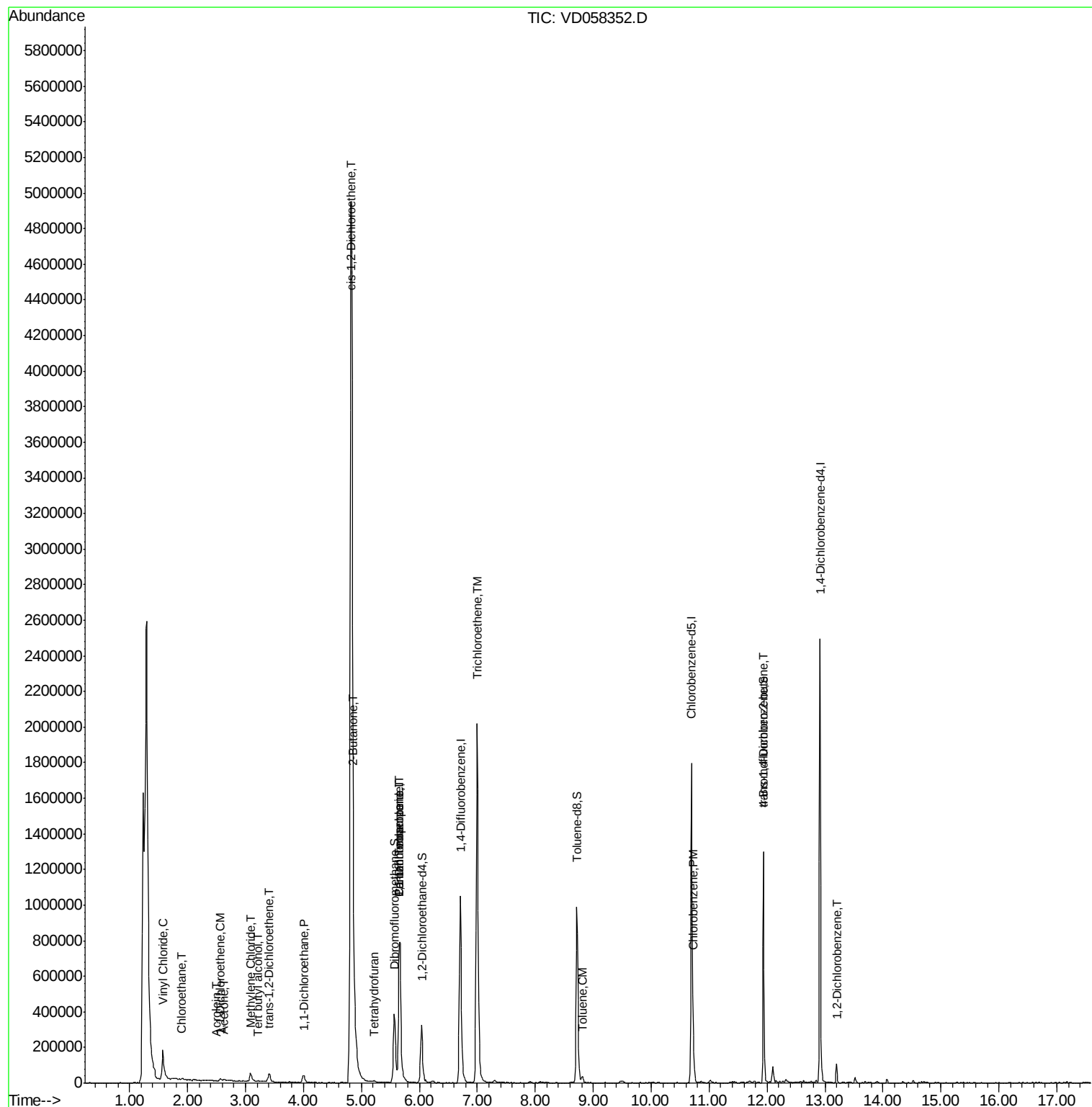
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	1337	Below Cal	#	43
3) Chloromethane	1.57	50	2366	Below Cal	#	43
4) Vinyl Chloride	1.57	62	222415	49.32	ug/l	99
5) Bromomethane	1.85	94	189	Below Cal		95
6) Chloroethane	1.91	64	6260	4.56	ug/l	# 80
11) Tert butyl alcohol	3.22	59	397	1.38	ug/l	# 78
12) 1,1-Dichloroethene	2.58	96	3794	1.28	ug/l	# 64
13) Acrolein	2.51	56	234	1.43	ug/l	# 11
16) Acetone	2.64	43	23368	19.65	ug/l	97
20) Methylene Chloride	3.09	84	21897	2.53	ug/l	# 94
21) trans-1,2-Dichloroethene	3.41	96	23071	7.14	ug/l	# 69
24) 1,1-Dichloroethane	3.99	63	67335	4.57	ug/l	97
25) 2-Butanone	4.87	43	3791	1.46	ug/l	# 1
27) cis-1,2-Dichloroethene	4.83	96	3386693	419.32	ug/l	93
29) Tetrahydrofuran	5.20	42	4082	2.96	ug/l	# 78
31) Cyclohexane	5.65	56	24204	Below Cal	#	6
36) 1,1-Dichloropropene	5.66	75	70545	6.36	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	71728	6.51	ug/l	# 14
44) Trichloroethene	7.00	130	840668	105.93	ug/l	97
52) Toluene	8.82	92	16563	1.10	ug/l	91
65) Chlorobenzene	10.73	112	84561	4.67	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.94	75	154839	85.73	ug/l	# 1
82) 4-Chlorotoluene	12.33	91	4356	Below Cal		89
91) 1,2-Dichlorobenzene	13.20	146	26313	1.96	ug/l	89

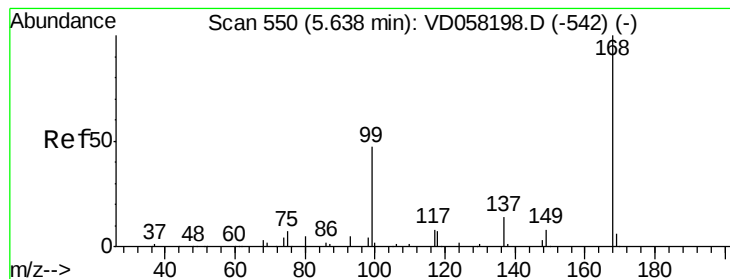
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

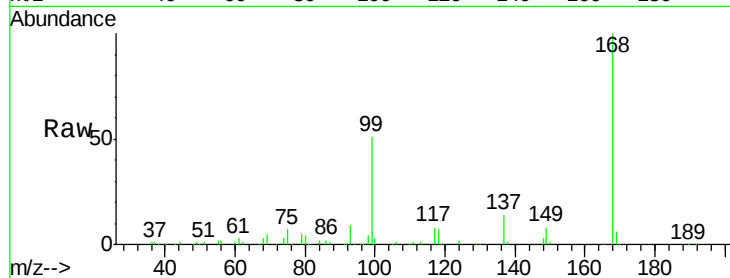
ClientSampleId :

Tot Ion:168 Resp: 860787

Ion Ratio Lower Upper

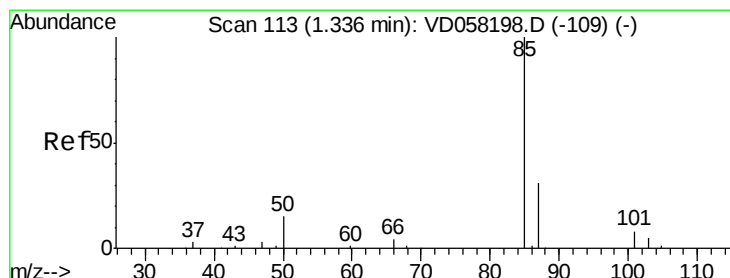
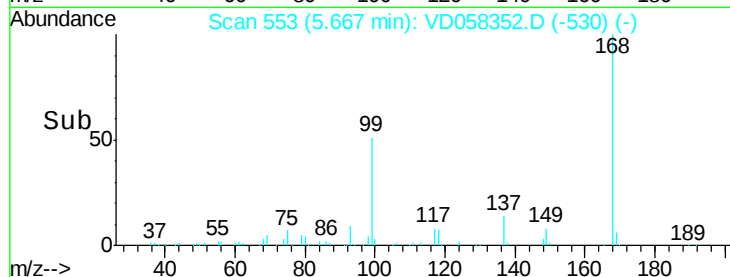
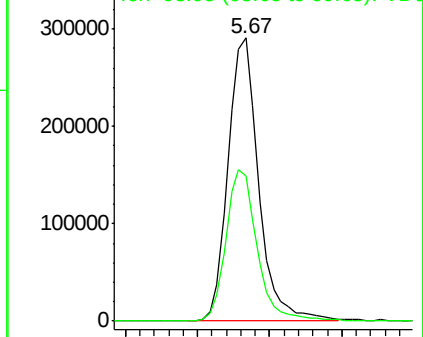
168 100

99 51.3 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.36 min Scan# 116

Delta R.T. 0.03 min

Lab File: VD058352.D

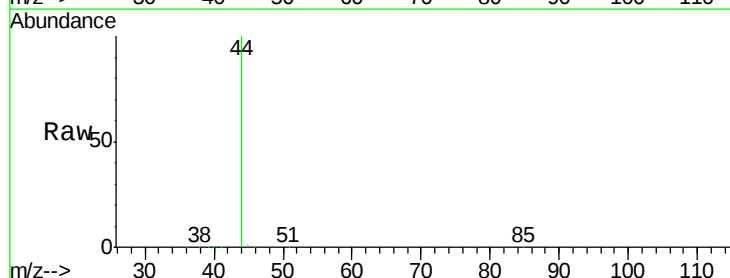
Acq: 23 Jun 2018 20:32

Tgt Ion: 85 Resp: 1337

Ion Ratio Lower Upper

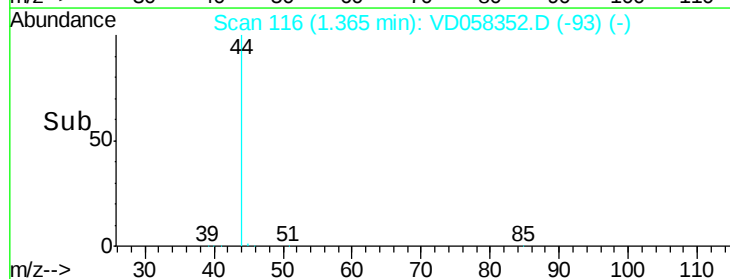
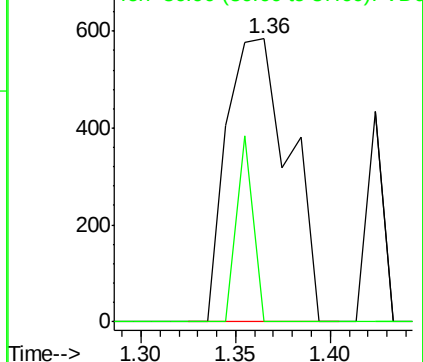
85 100

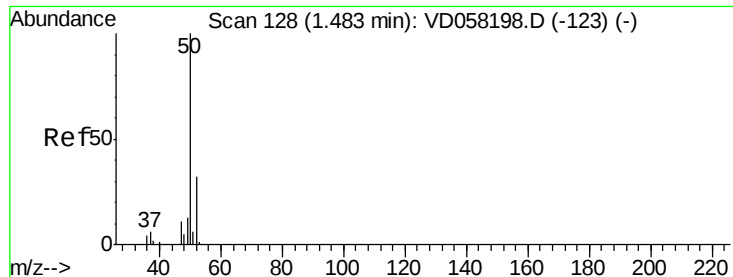
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.57 min Scan# 137

Delta R.T. 0.09 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

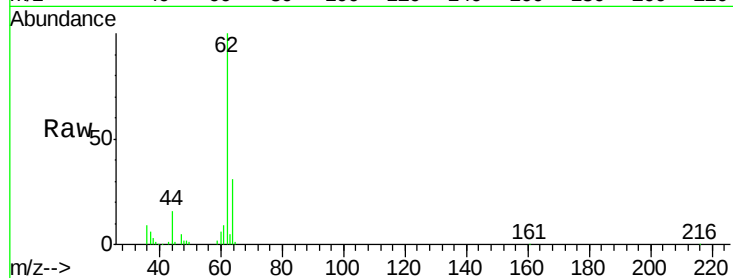
ClientSampleId :

Tot Ion: 50 Resp: 2366

Ion Ratio Lower Upper

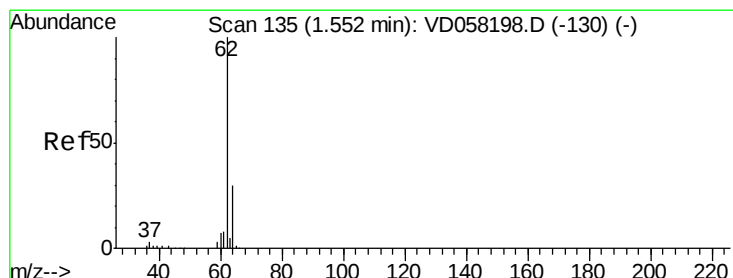
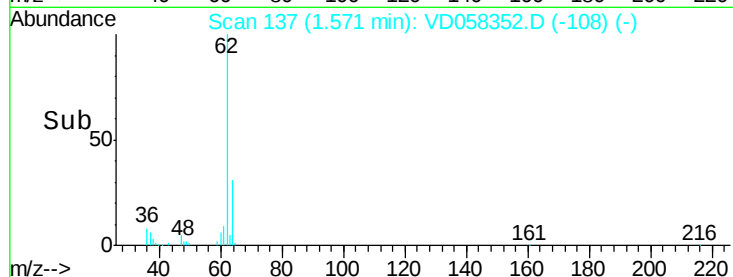
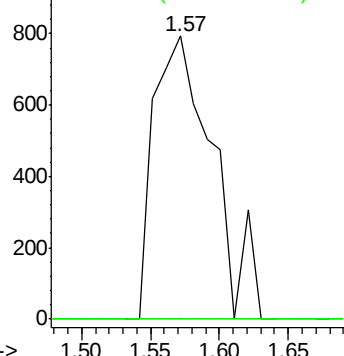
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 49.32 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.02 min

Lab File: VD058352.D

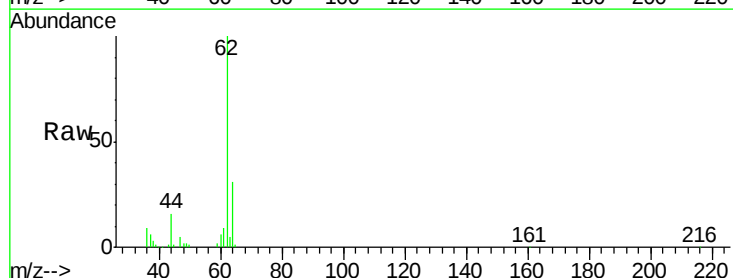
Acq: 23 Jun 2018 20:32

Tgt Ion: 62 Resp: 222415

Ion Ratio Lower Upper

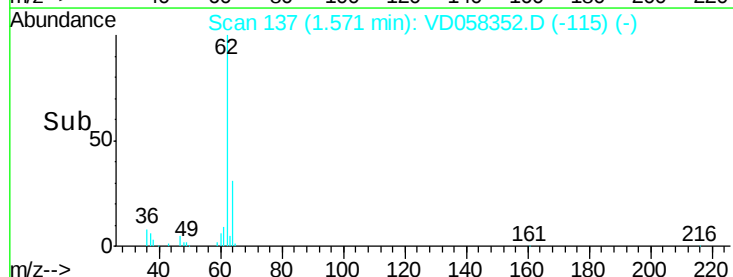
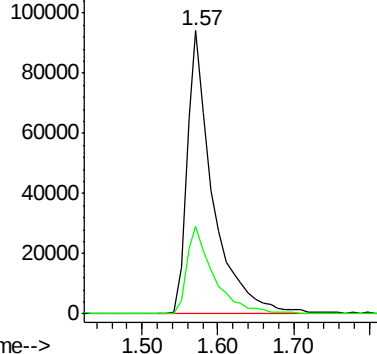
62 100

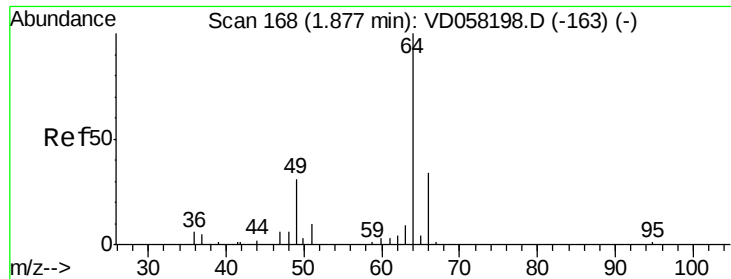
64 31.1 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#6

Chloroethane

Concen: 4.56 ug/l

RT: 1.91 min Scan# 171

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

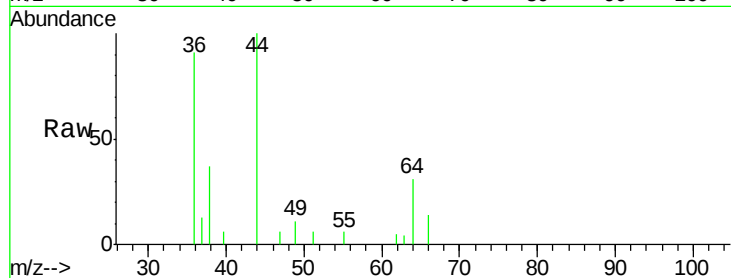
ClientSampleId :

Tot Ion: 64 Resp: 6260

Ion Ratio Lower Upper

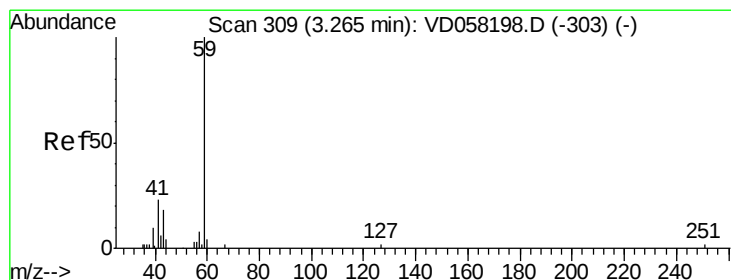
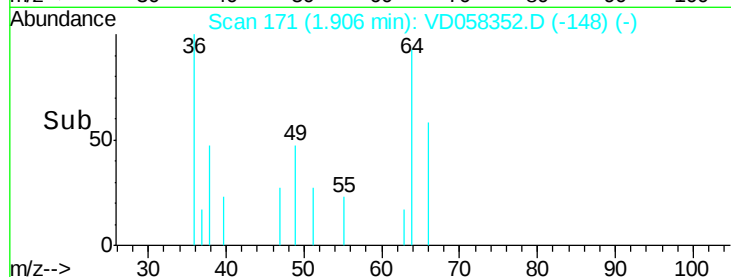
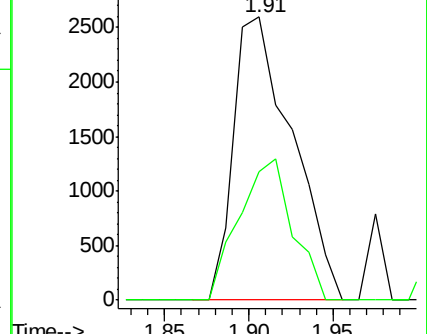
64 100

66 45.5 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#11

Tert butyl alcohol

Concen: 1.38 ug/l

RT: 3.22 min Scan# 304

Delta R.T. -0.05 min

Lab File: VD058352.D

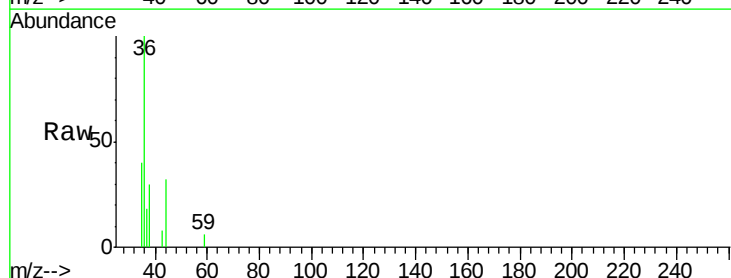
Acq: 23 Jun 2018 20:32

Tgt Ion: 59 Resp: 397

Ion Ratio Lower Upper

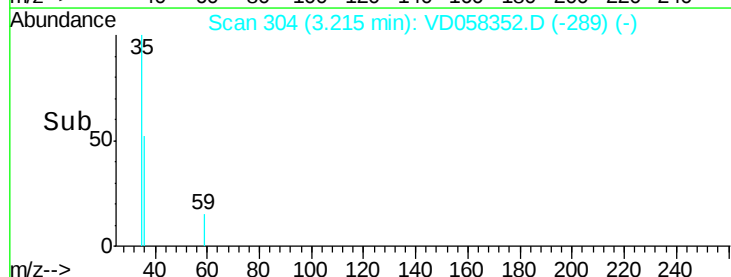
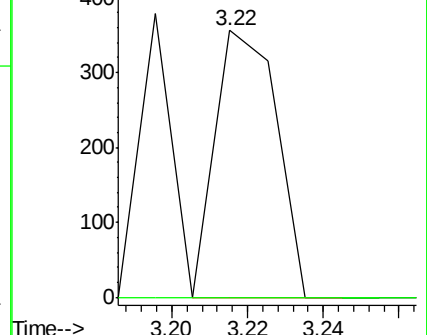
59 100

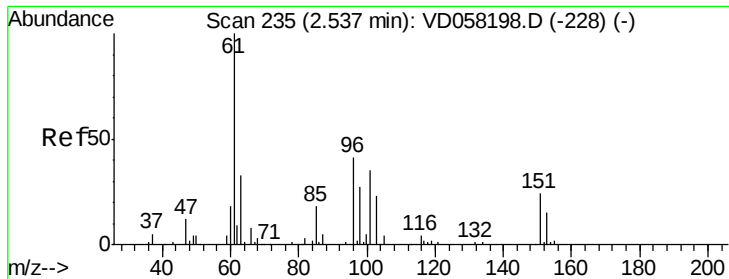
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#12

1,1-Dichloroethene

Concen: 1.28 ug/l

RT: 2.58 min Scan# 239

Delta R.T. 0.04 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :
MSVOA_D
ClientSampleId :

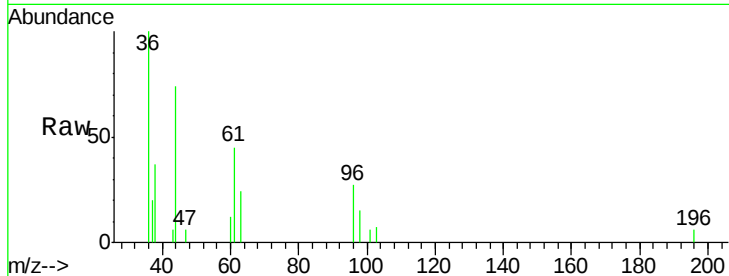
Tot Ion: 96 Resp: 3794

Ion Ratio Lower Upper

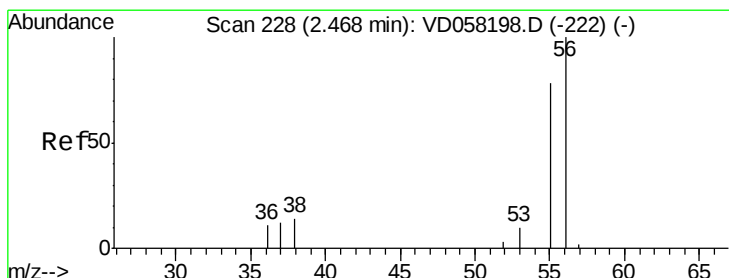
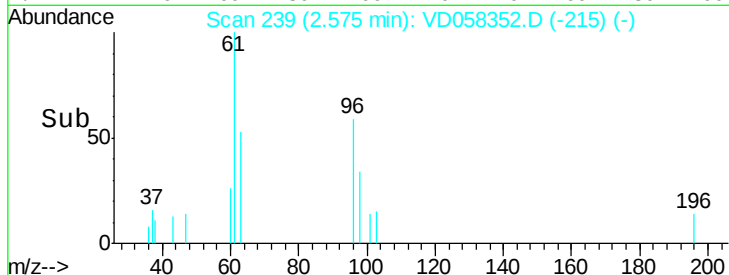
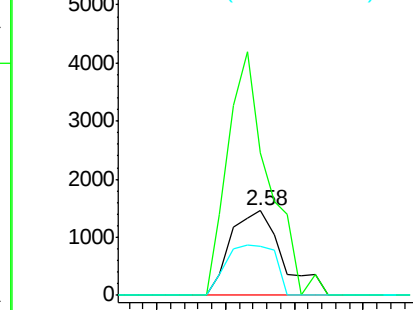
96 100

61 168.7 193.9 290.9#

98 58.2 51.7 77.5



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#13

Acrolein

Concen: 1.43 ug/l

RT: 2.51 min Scan# 232

Delta R.T. 0.04 min

Lab File: VD058352.D

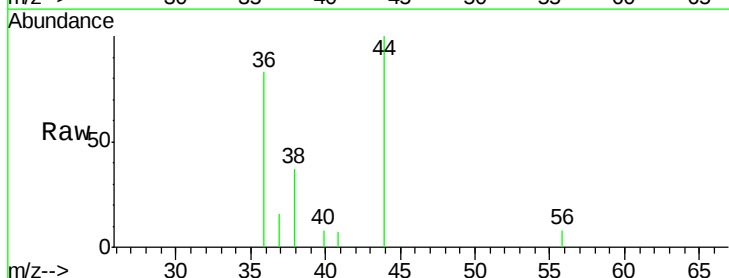
Acq: 23 Jun 2018 20:32

Tgt Ion: 56 Resp: 234

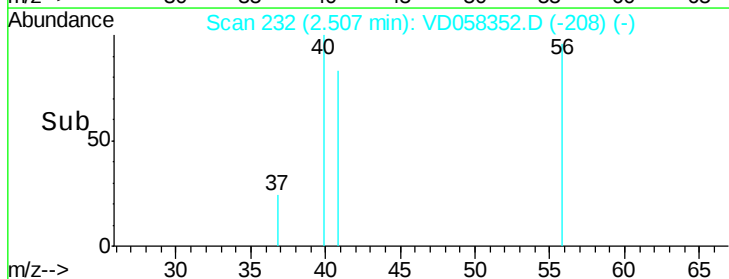
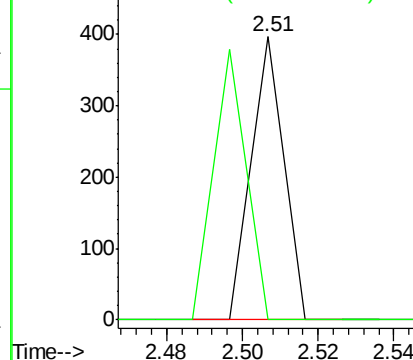
Ion Ratio Lower Upper

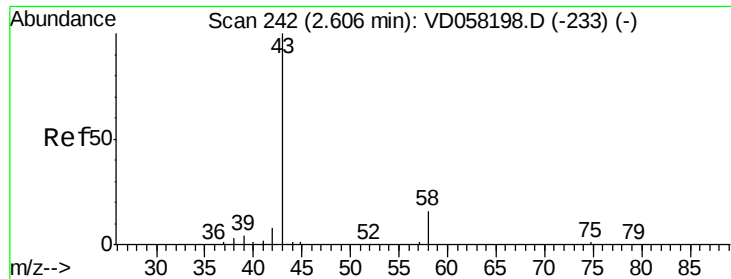
56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 19.65 ug/l

RT: 2.64 min Scan# 246

Delta R.T. 0.04 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

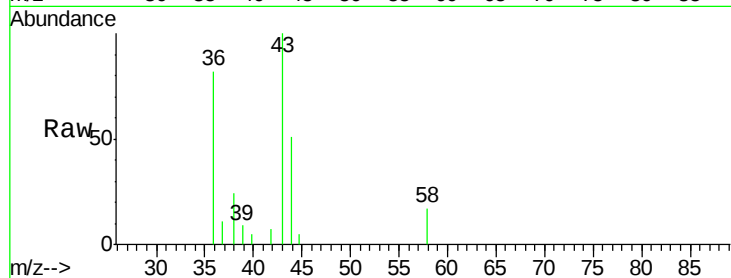
ClientSampleId :

Tot Ion: 43 Resp: 23368

Ion Ratio Lower Upper

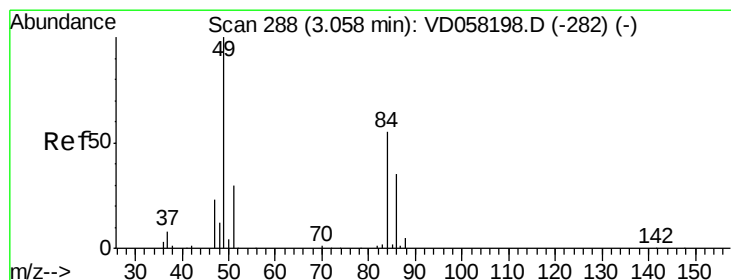
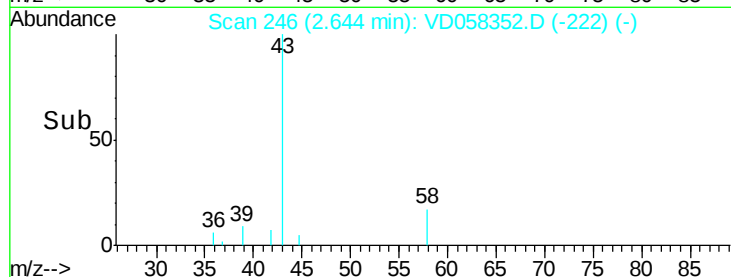
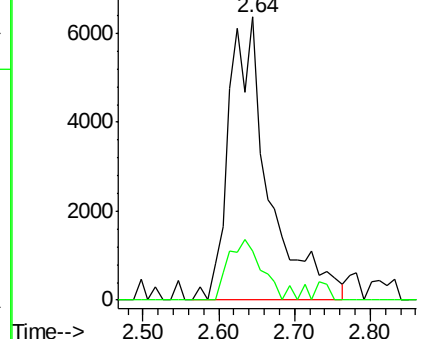
43 100

58 17.3 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.53 ug/l

RT: 3.09 min Scan# 291

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Tgt Ion: 84 Resp: 21897

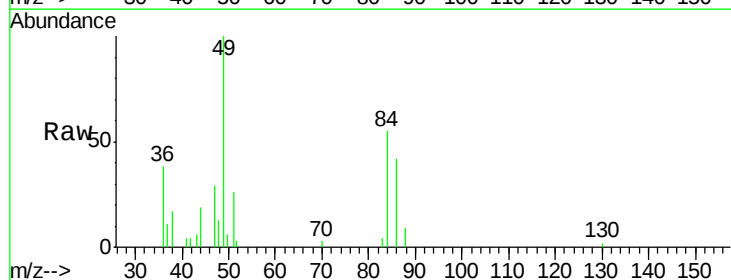
Ion Ratio Lower Upper

84 100

49 183.2 145.0 217.6

51 47.5 42.9 64.3

86 76.4 50.1 75.1#

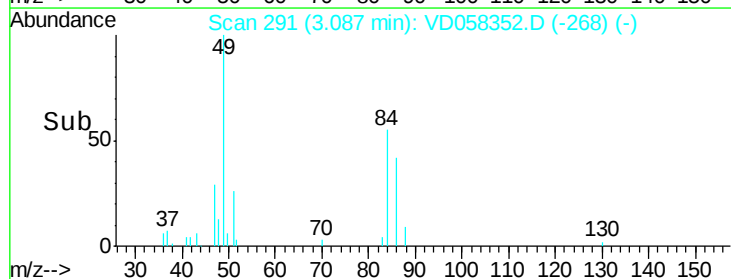
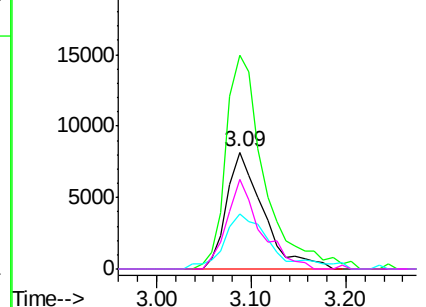


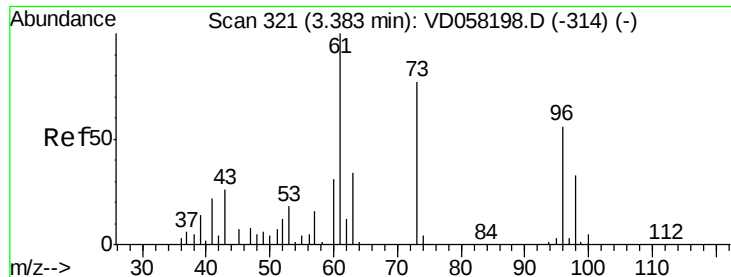
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#21

trans-1,2-Dichloroethene

Concen: 7.14 ug/l

RT: 3.41 min Scan# 324

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

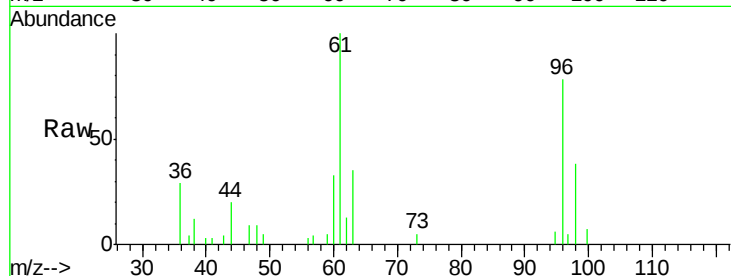
Tot Ion: 96 Resp: 23071

Ion Ratio Lower Upper

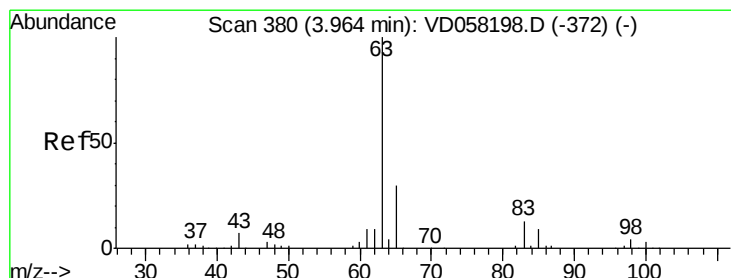
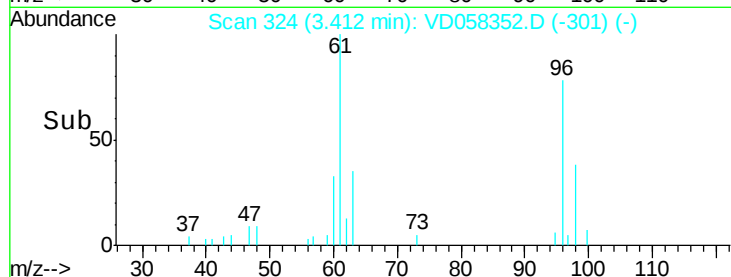
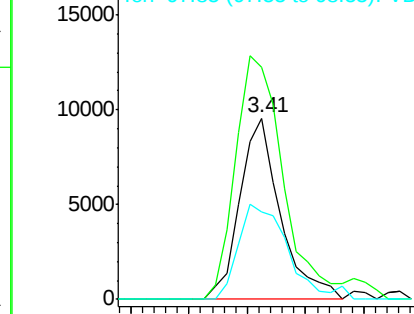
96 100

61 128.1 143.8 215.6#

98 48.1 48.0 72.0



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#24

1,1-Dichloroethane

Concen: 4.57 ug/l

RT: 3.99 min Scan# 383

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

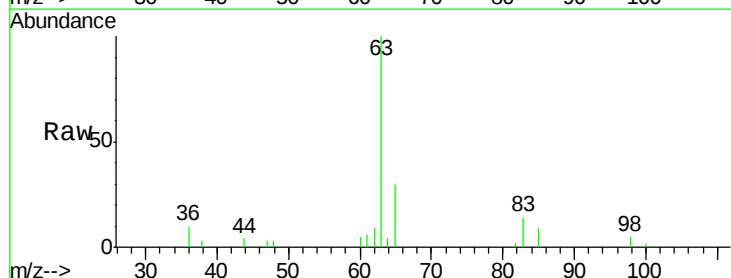
Tgt Ion: 63 Resp: 67335

Ion Ratio Lower Upper

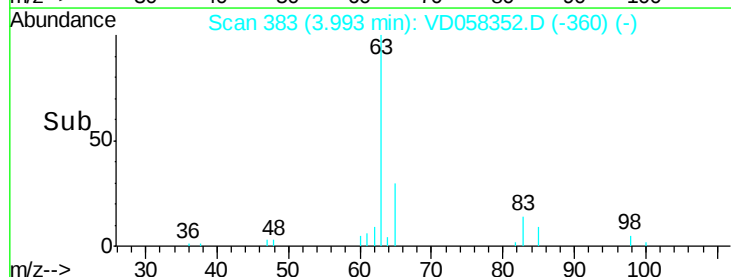
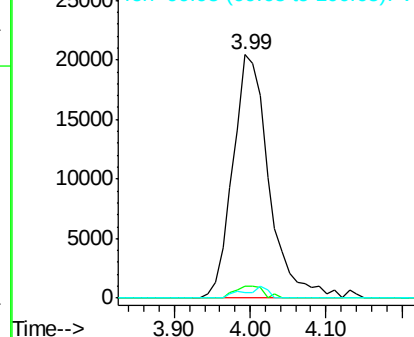
63 100

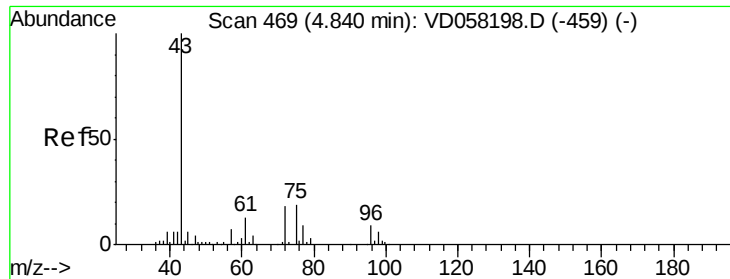
98 5.1 1.9 5.7

100 2.2 1.3 3.9



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 1.46 ug/l

RT: 4.87 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

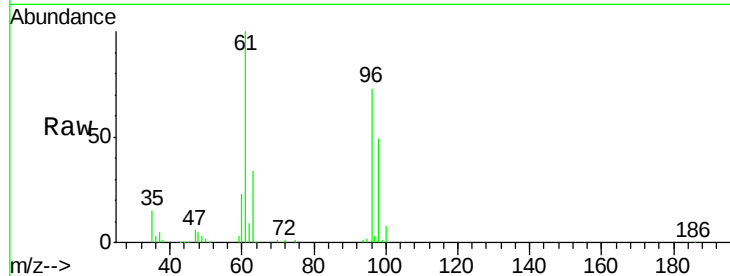
ClientSampled :

Tot Ion: 43 Resp: 3791

Ion Ratio Lower Upper

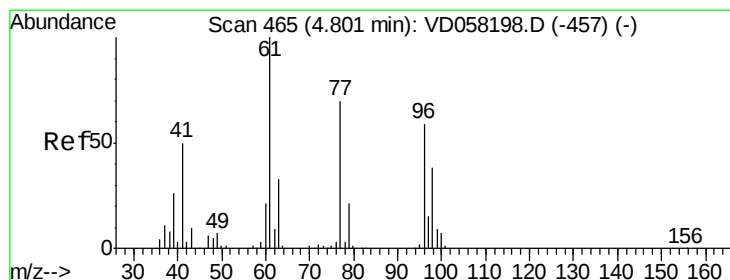
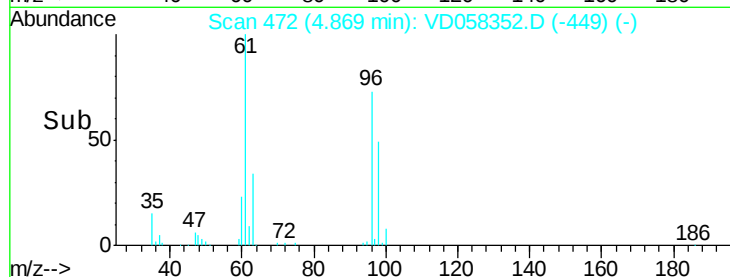
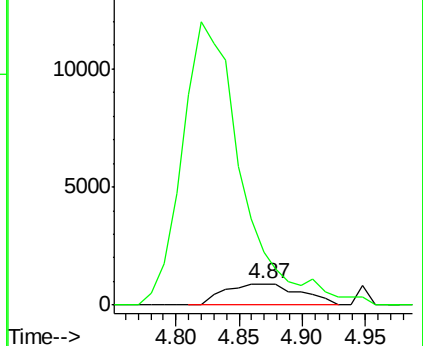
43 100

72 249.9 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 419.32 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

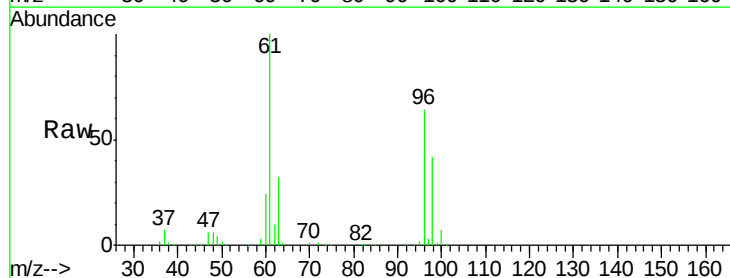
Tgt Ion: 96 Resp: 3386693

Ion Ratio Lower Upper

96 100

61 157.1 0.0 338.6

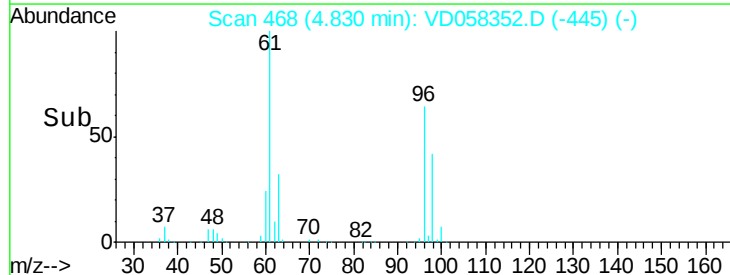
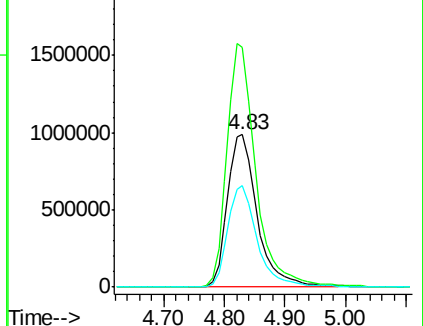
98 66.4 0.0 130.2

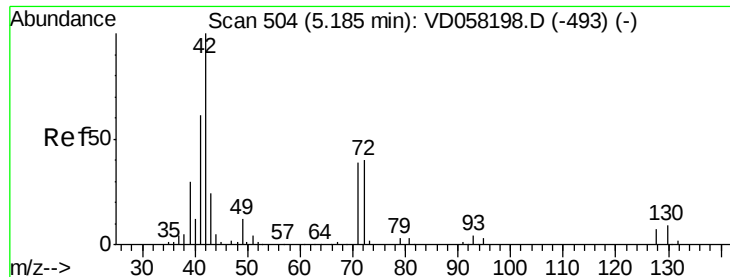


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

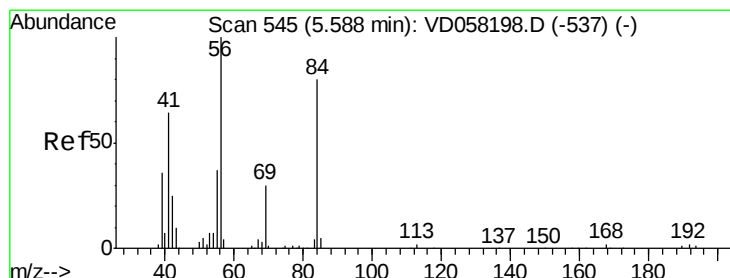
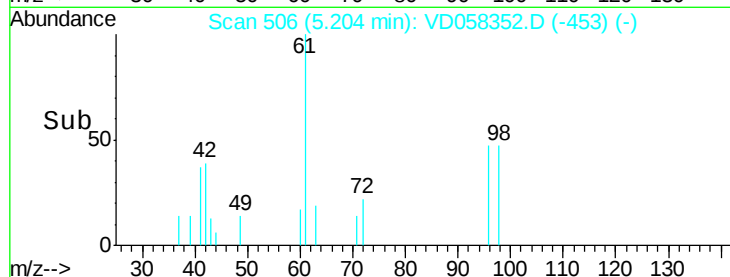
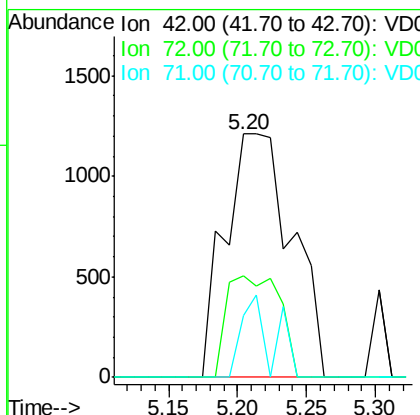
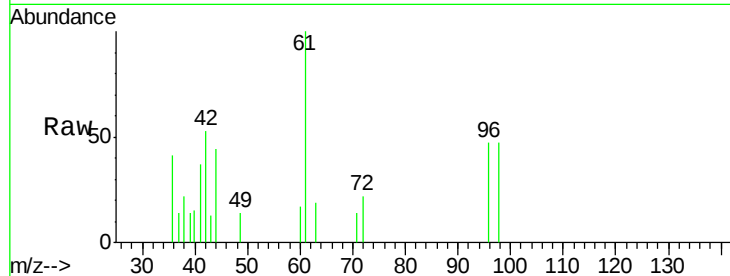




#29
Tetrahydrofuran
Concen: 2.96 ug/l
RT: 5.20 min Scan# 506
Delta R.T. 0.02 min
Lab File: VD058352.D
Acq: 23 Jun 2018 20:32

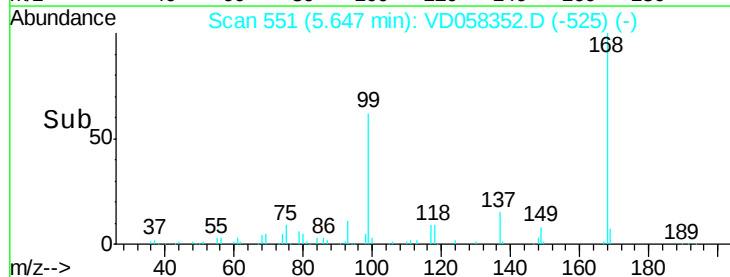
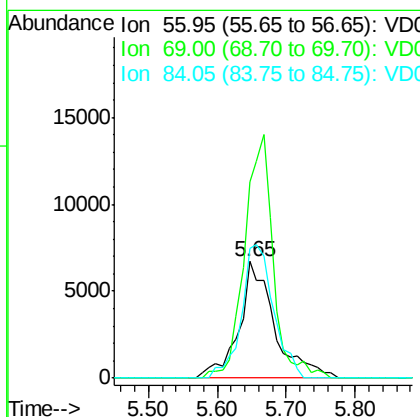
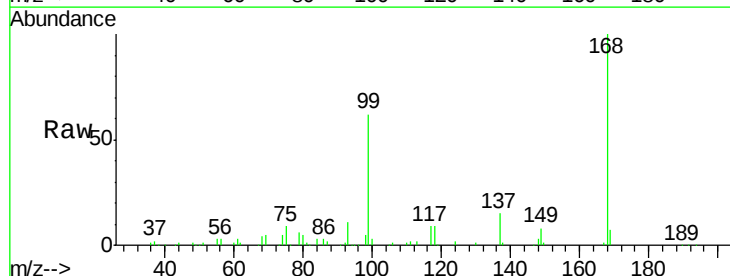
Instrument :
MSVOA_D
ClientSampleId :

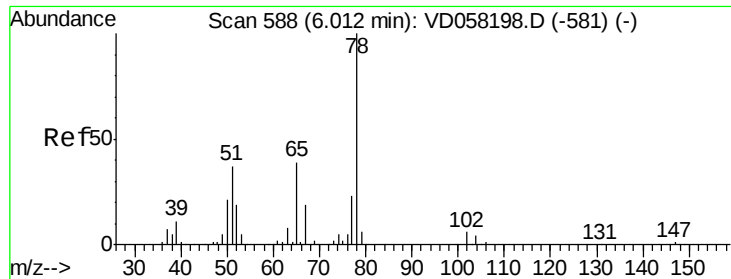
Tot Ion: 42 Resp: 4082
Ion Ratio Lower Upper
42 100
72 33.1 30.2 45.2
71 15.5 30.1 45.1#



#31
Cyclohexane
Concen: Below Cal
RT: 5.65 min Scan# 551
Delta R.T. 0.06 min
Lab File: VD058352.D
Acq: 23 Jun 2018 20:32

Tgt Ion: 56 Resp: 24204
Ion Ratio Lower Upper
56 100
69 168.4 23.6 35.4#
84 111.8 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.04 min Scan# 591

Delta R.T. 0.03 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

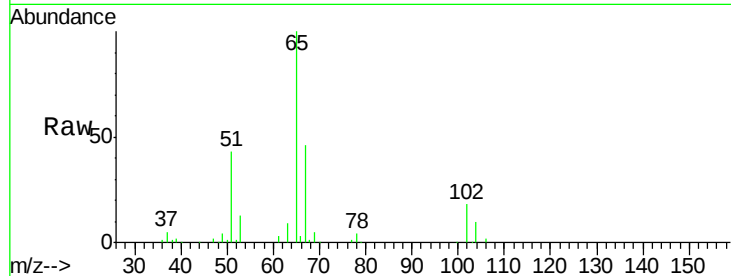
ClientSampled :

Tot Ion: 65 Resp: 312947

Ion Ratio Lower Upper

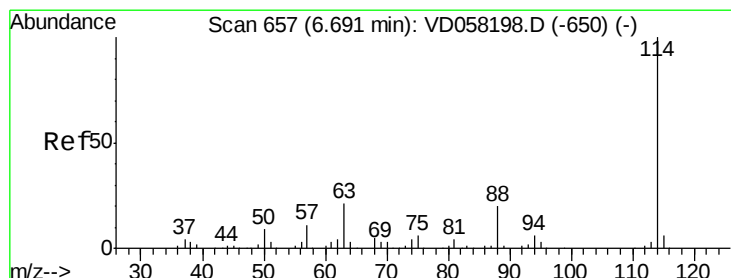
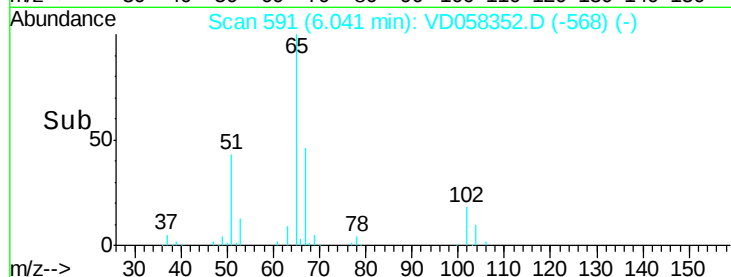
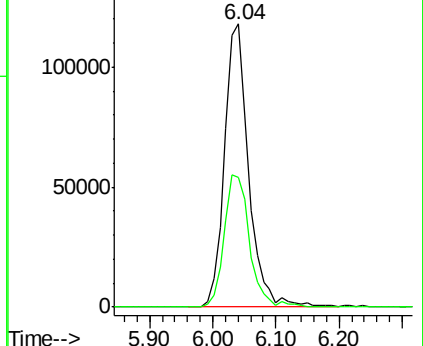
65 100

67 45.6 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.71 min Scan# 659

Delta R.T. 0.02 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

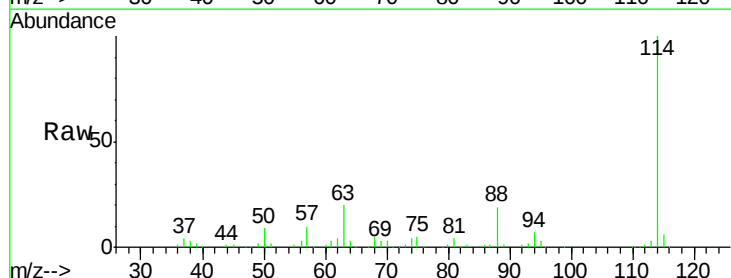
Tgt Ion: 114 Resp: 1121555

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.6

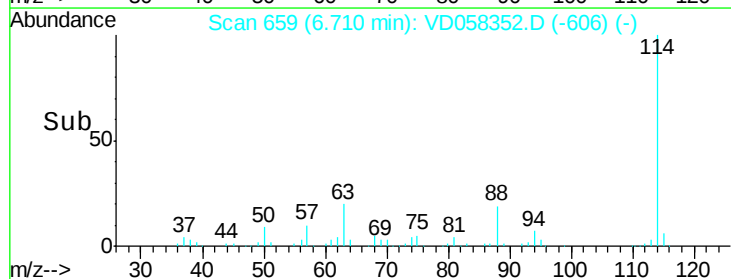
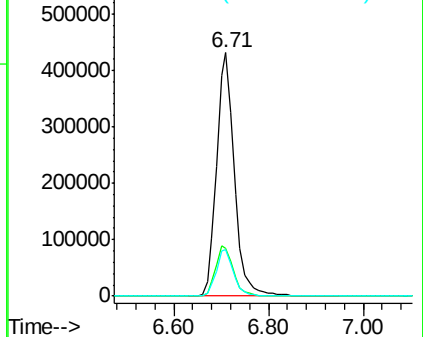
88 19.3 0.0 40.6

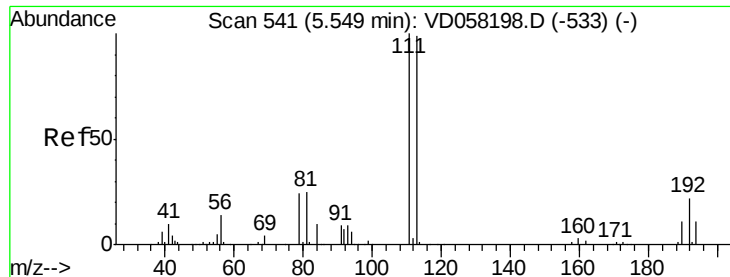


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

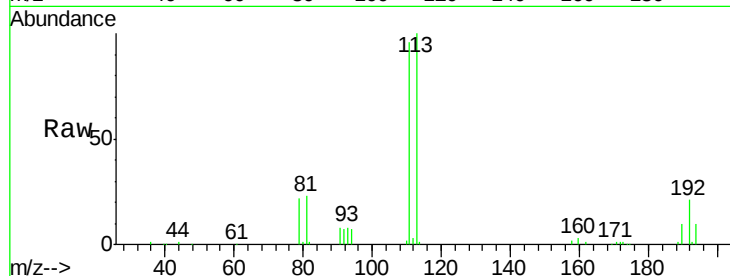
Tot Ion:113 Resp: 327554

Ion Ratio Lower Upper

113 100

111 95.9 80.6 121.0

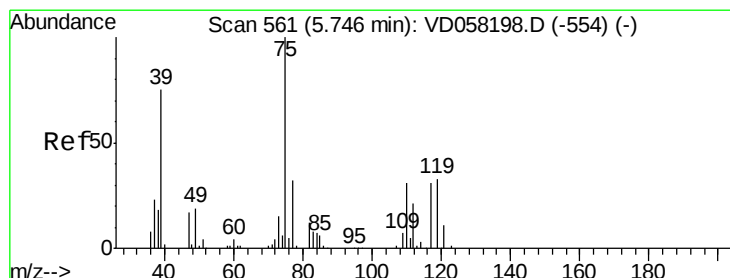
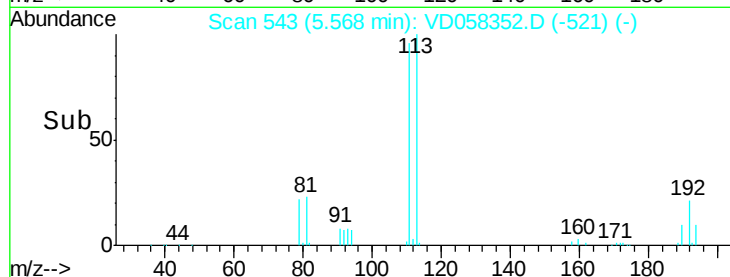
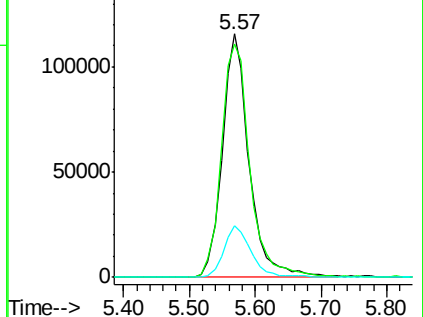
192 21.1 17.8 26.6



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 6.36 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.09 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

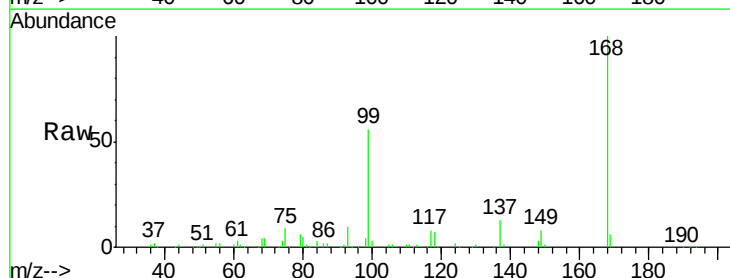
Tgt Ion: 75 Resp: 70545

Ion Ratio Lower Upper

75 100

110 6.5 15.4 46.4#

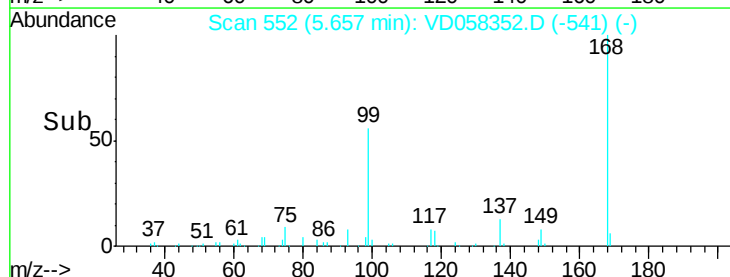
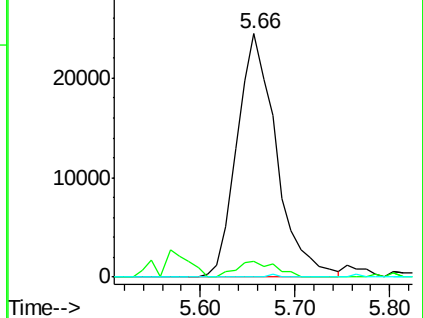
77 0.0 25.4 38.2#

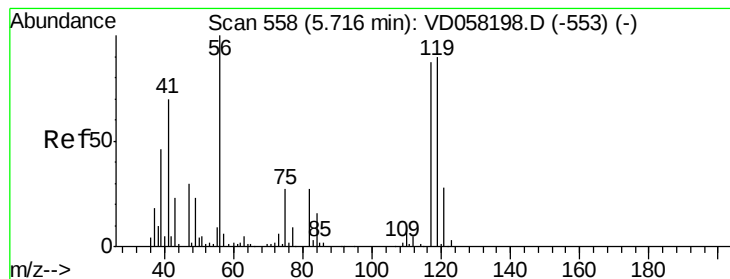


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.51 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampled :

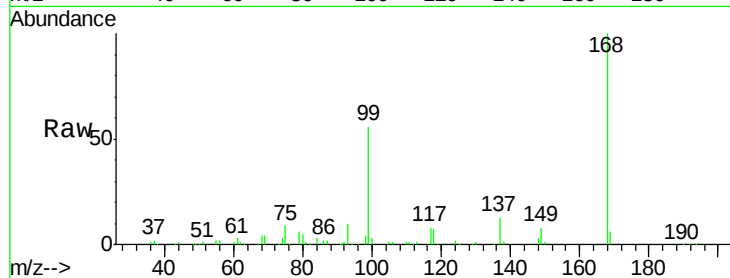
Tot Ion:117 Resp: 71728

Ion Ratio Lower Upper

117 100

119 4.1 78.8 118.2#

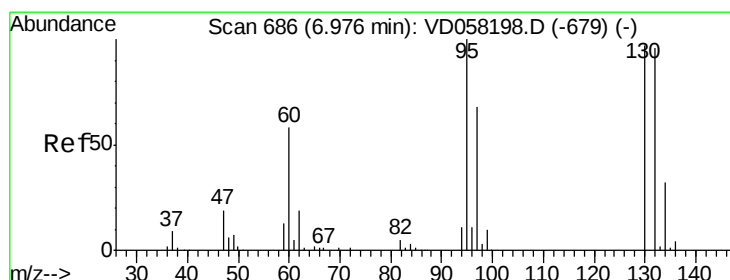
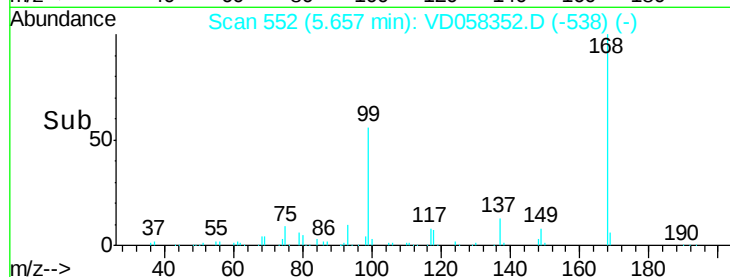
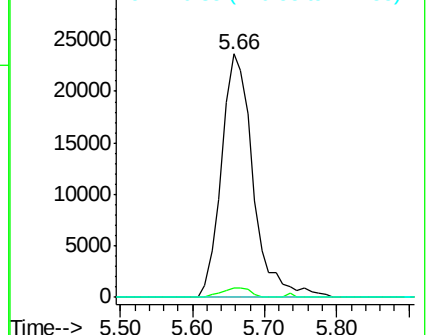
121 0.0 25.0 37.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#44

Trichloroethene

Concen: 105.93 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.02 min

Lab File: VD058352.D

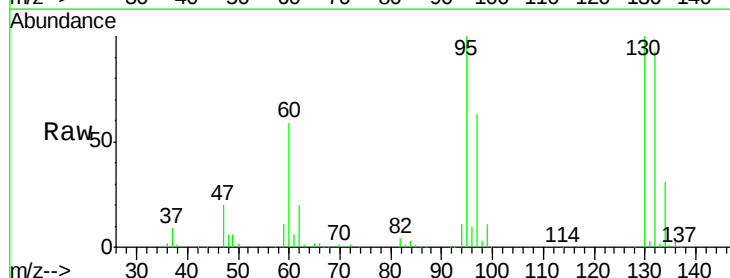
Acq: 23 Jun 2018 20:32

Tgt Ion:130 Resp: 840668

Ion Ratio Lower Upper

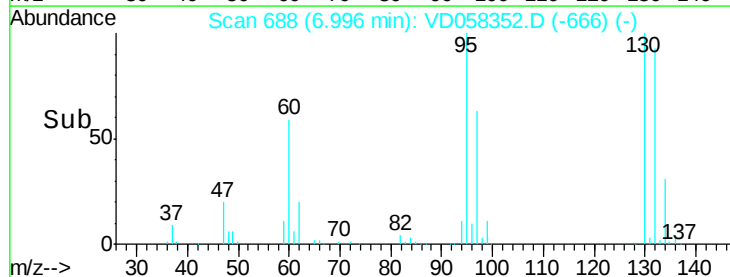
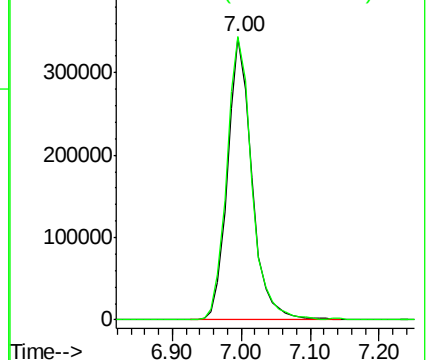
130 100

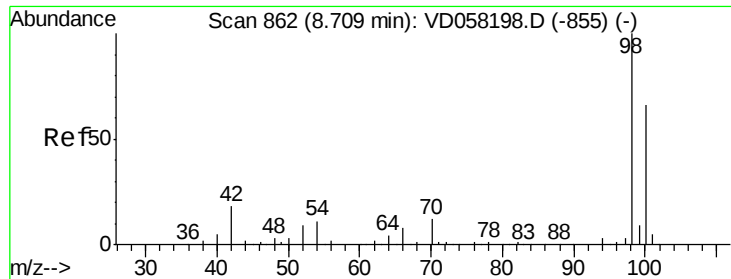
95 100.1 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

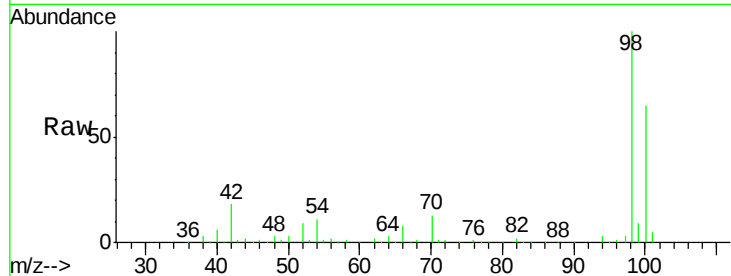




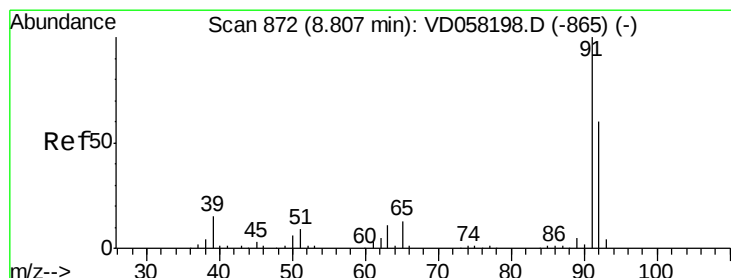
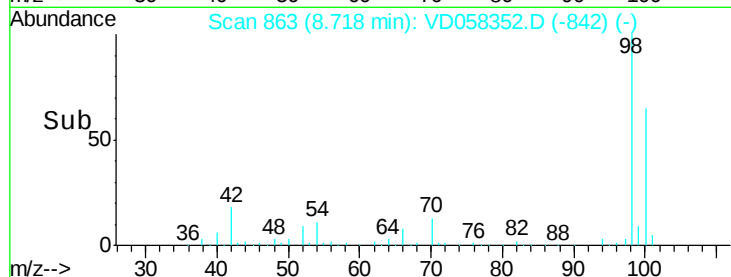
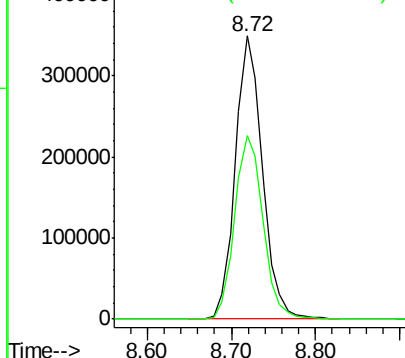
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.01 min
Lab File: VD058352.D
Acq: 23 Jun 2018 20:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 785937
Ion Ratio Lower Upper
98 100
100 65.1 53.6 80.4

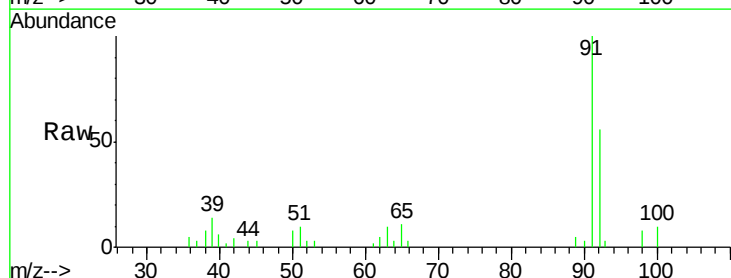


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

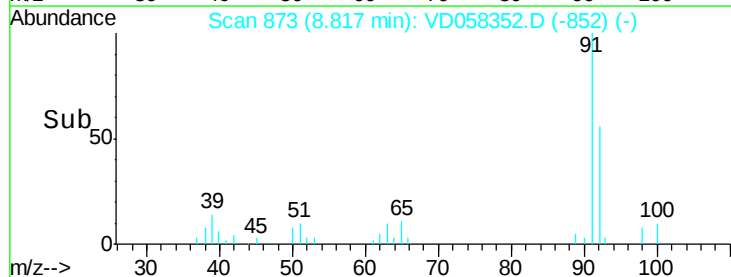
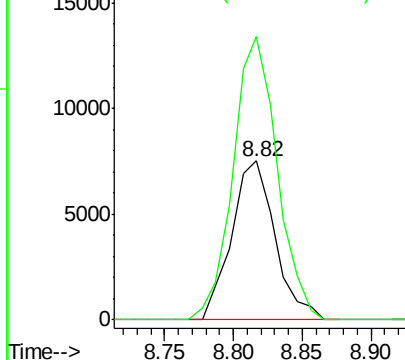


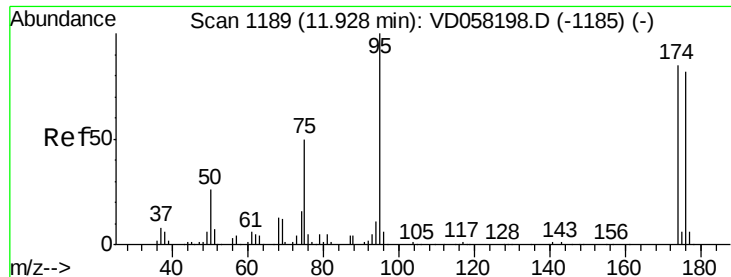
#52
Toluene
Concen: 1.10 ug/l
RT: 8.82 min Scan# 873
Delta R.T. 0.01 min
Lab File: VD058352.D
Acq: 23 Jun 2018 20:32

Tgt Ion: 92 Resp: 16563
Ion Ratio Lower Upper
92 100
91 178.3 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

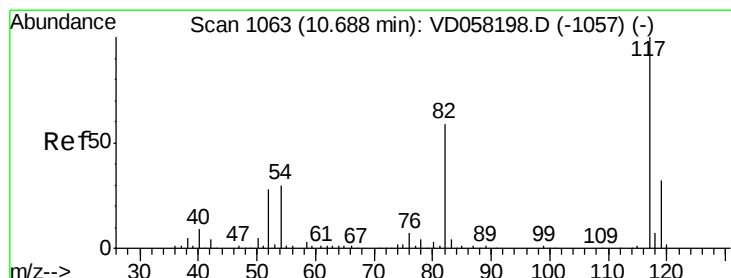
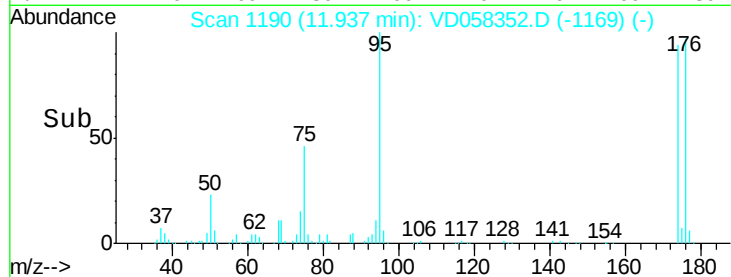
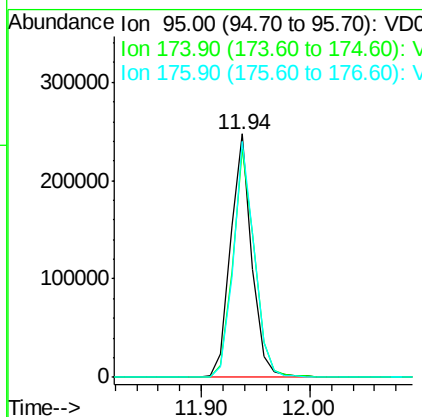
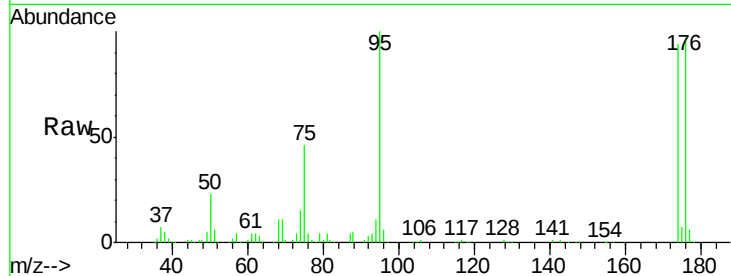




#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD058352.D
Acq: 23 Jun 2018 20:32

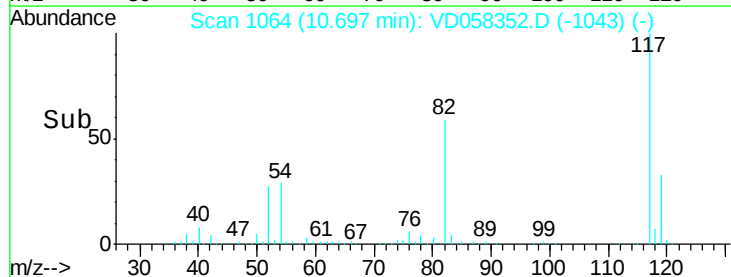
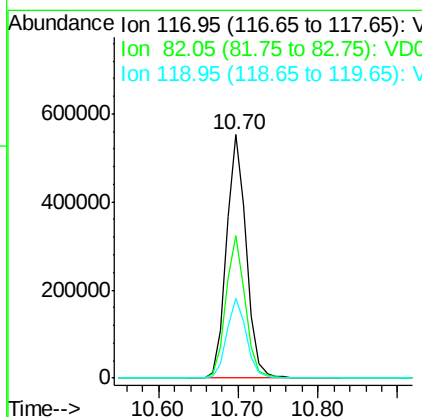
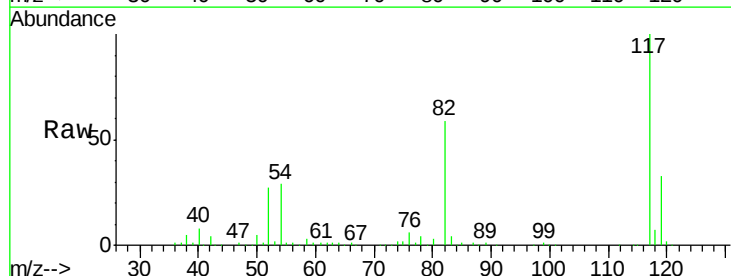
Instrument :
MSVOA_D
ClientSampleId :

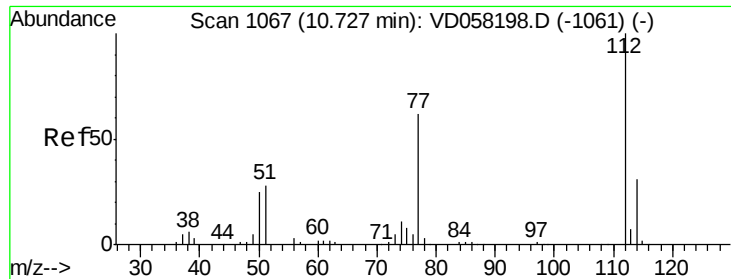
Tot Ion	95	Resp	337276
Ion	Ratio	Lower	Upper
95	100		
174	93.9	0.0	170.2
176	97.0	0.0	164.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058352.D
Acq: 23 Jun 2018 20:32

Tgt Ion	117	Resp	968695
Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.0	70.6
119	32.7	25.3	37.9





#65

Chlorobenzene

Concen: 4.67 ug/l

RT: 10.73 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

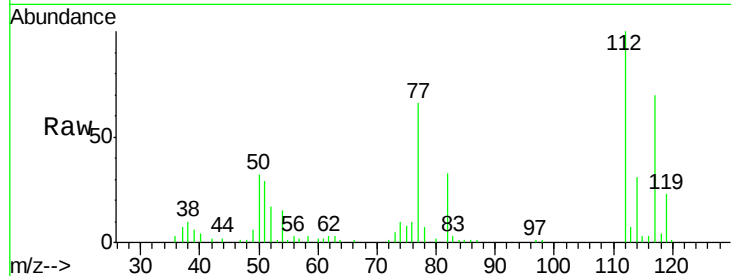
ClientSampled :

Tot Ion:112 Resp: 84561

Ion Ratio Lower Upper

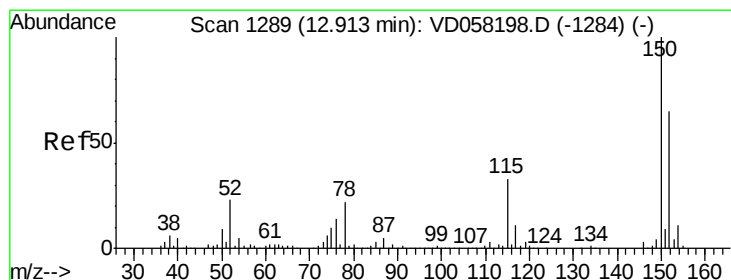
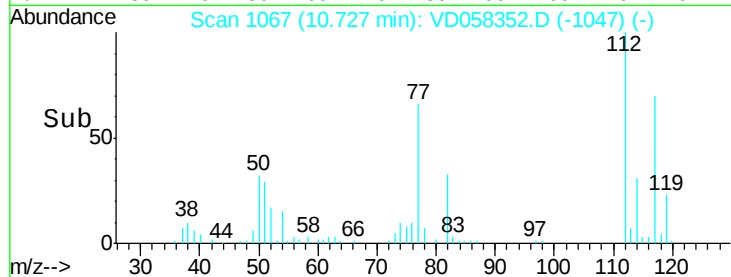
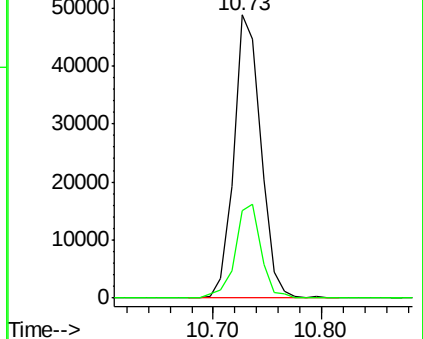
112 100

114 31.0 25.0 37.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

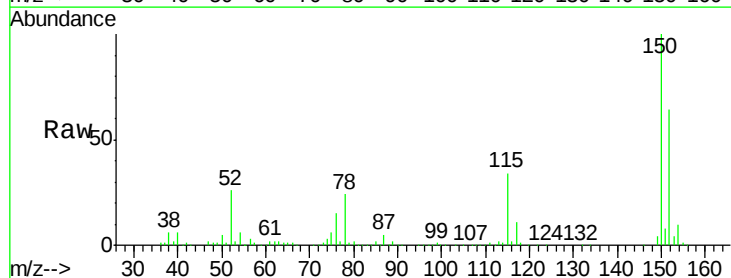
Tgt Ion:152 Resp: 507236

Ion Ratio Lower Upper

152 100

115 52.9 25.1 75.3

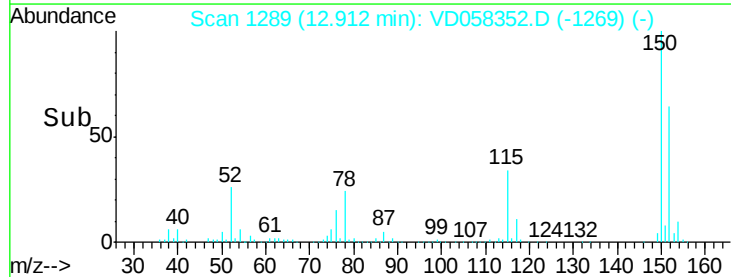
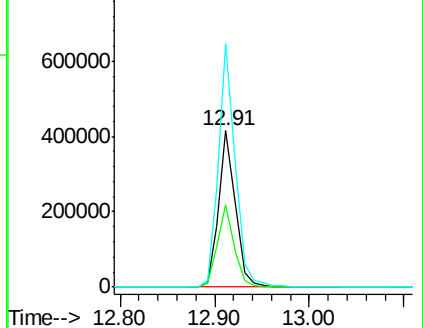
150 155.9 0.0 308.8

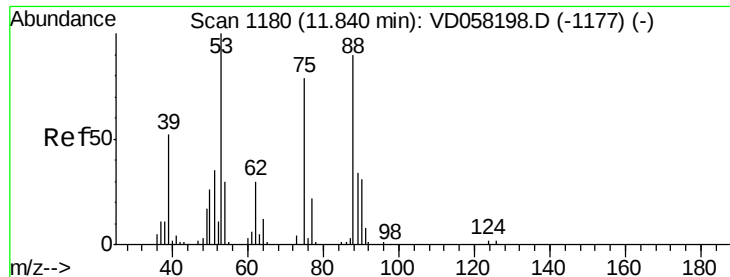


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 85.73 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

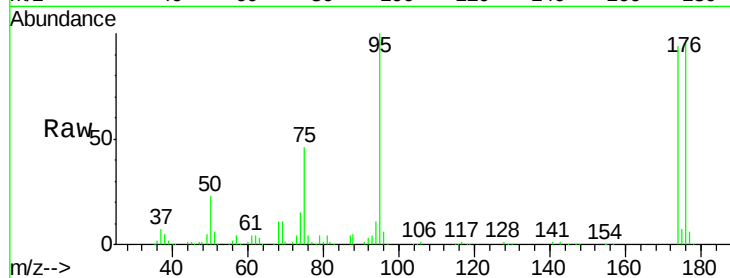
Tot Ion: 75 Resp: 154839

Ion Ratio Lower Upper

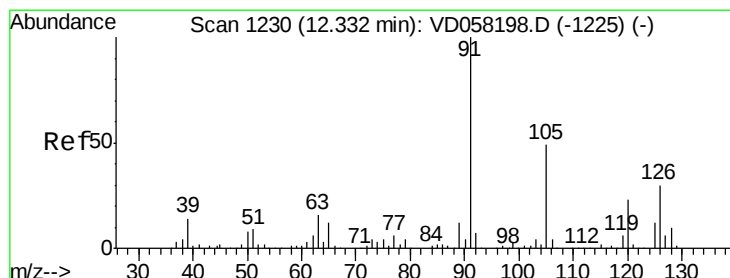
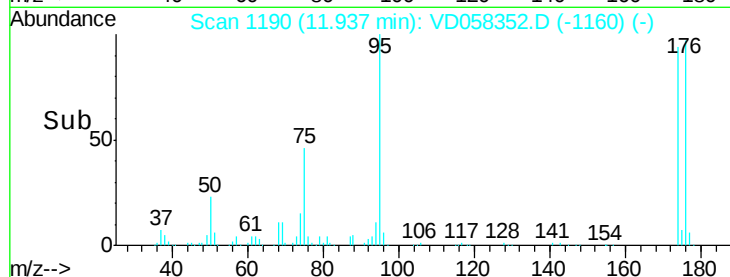
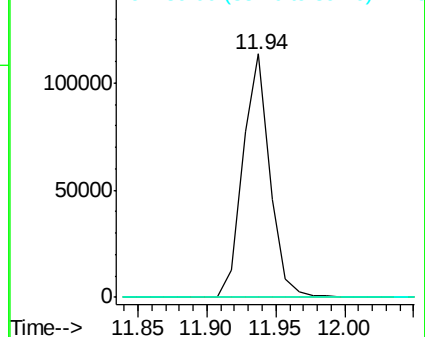
75 100

53 0.0 100.8 151.2#

89 0.0 34.6 52.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VD058352.D

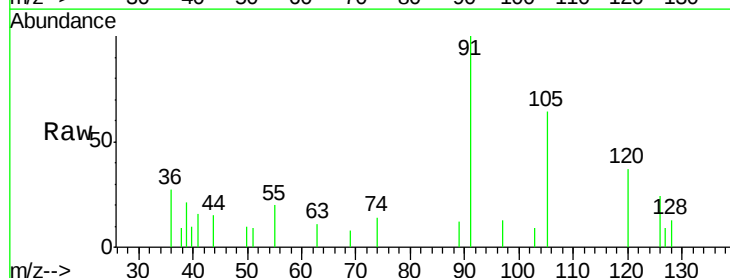
Acq: 23 Jun 2018 20:32

Tgt Ion: 91 Resp: 4356

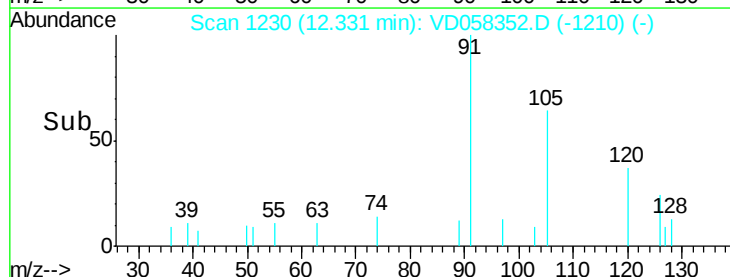
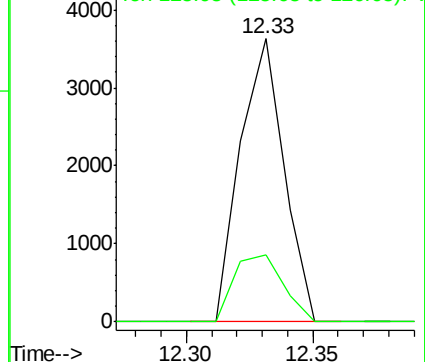
Ion Ratio Lower Upper

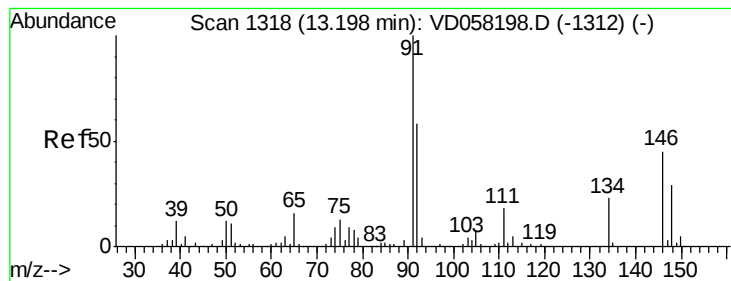
91 100

126 23.8 14.9 44.9



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#91

1,2-Dichlorobenzene

Concen: 1.96 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VD058352.D

Acq: 23 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

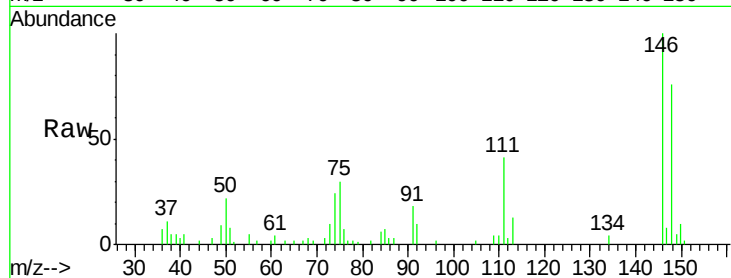
Tot Ion:146 Resp: 26313

Ion Ratio Lower Upper

146 100

111 41.2 19.6 58.7

148 76.2 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

