

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058163.D
 Acq On : 15 Jun 2018 20:25
 Operator : VA/AP
 Sample : J3493-01
 Misc : 5.02g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 23:19:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	47584	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	72406	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.70	117	63481	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.92	152	28041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	71903	151.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	302.30%	
35) Dibromofluoromethane	5.55	113	49670	88.66	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	177.32%	
50) Toluene-d8	8.72	98	85759	64.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	128.78%	
62) 4-Bromofluorobenzene	11.95	95	37907	65.24	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	130.48%	

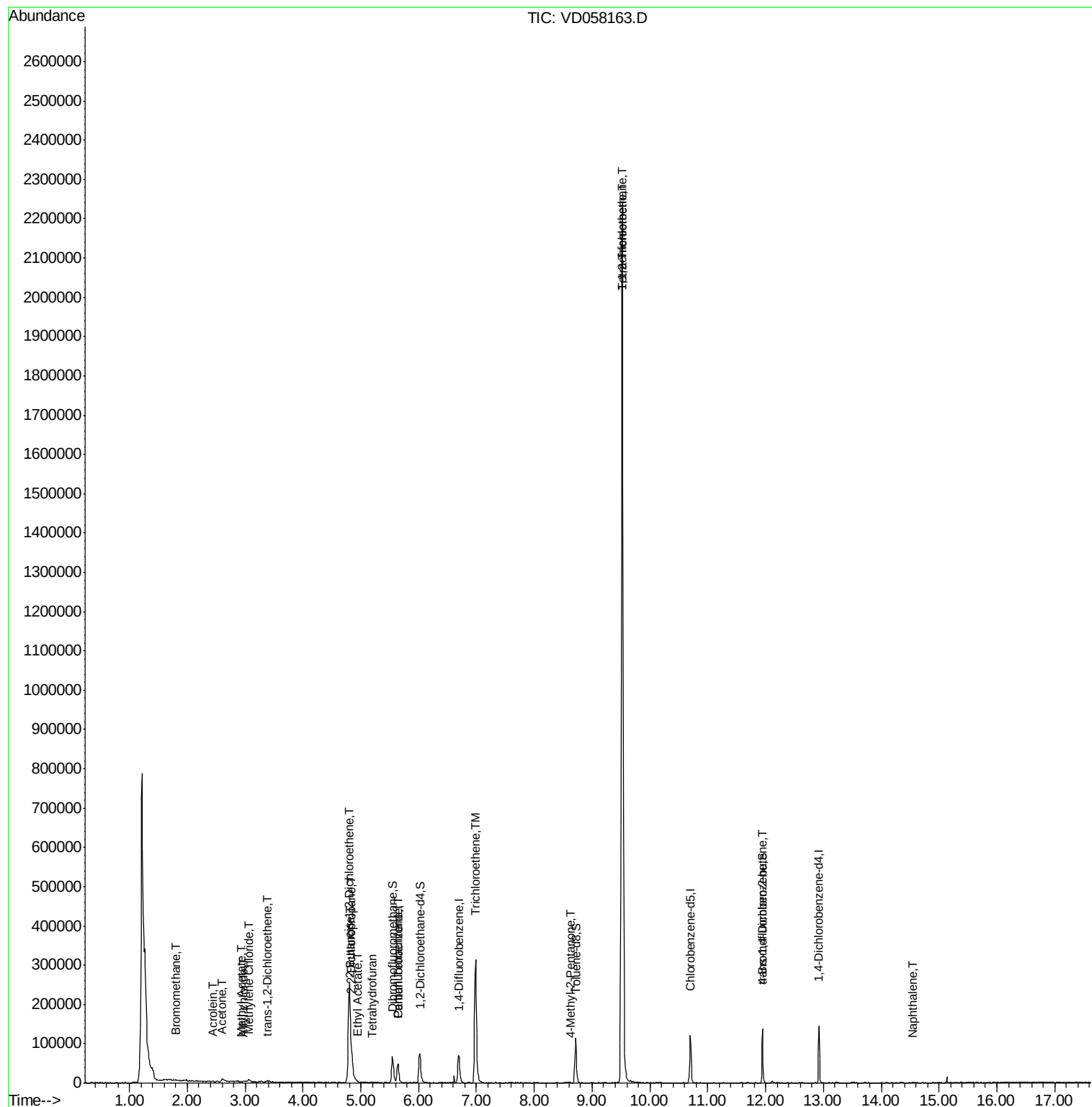
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.80	94	427	3.578	ug/l #	3
13) Acrolein	2.44	56	225	12.328	ug/l #	16
14) Allyl chloride	2.96	41	510	1.158	ug/l #	61
16) Acetone	2.60	43	16203	236.407	ug/l	92
18) Methyl Acetate	2.93	43	697	5.257	ug/l #	66
20) Methylene Chloride	3.06	84	2824	11.257	ug/l #	68
21) trans-1,2-Dichloroethene	3.38	96	803	1.889	ug/l #	72
25) 2-Butanone	4.83	43	5046	32.395	ug/l #	69
26) 2,2-Dichloropropane	4.84	77	3495	4.426	ug/l #	59
27) cis-1,2-Dichloroethene	4.80	96	149048	295.647	ug/l	86
29) Tetrahydrofuran	5.19	42	258	3.160	ug/l #	39
37) Ethyl Acetate	4.94	43	523	1.202	ug/l #	1
38) Carbon Tetrachloride	5.64	117	3357	4.270	ug/l #	12
44) Trichloroethene	6.99	130	125061	229.753	ug/l	100
51) 4-Methyl-2-Pentanone	8.61	43	1322	3.615	ug/l #	42
55) 1,1,2-Trichloroethane	9.53	97	5815	16.800	ug/l #	15
64) Tetrachloroethene	9.53	164	702964	1238.658	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.95	75	17183	164.700	ug/l #	6
82) 4-Chlorotoluene	12.34	91	216	Below Cal	#	50
95) Naphthalene	14.53	128	1232	1.361	ug/l #	70

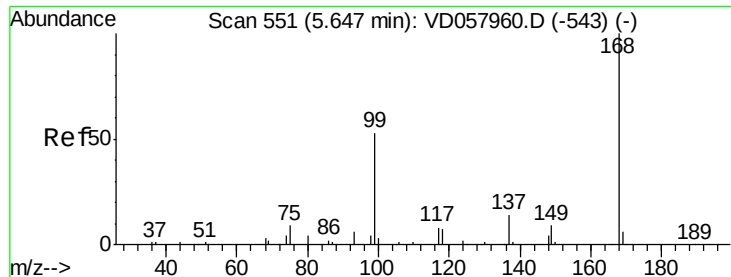
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.00 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

Instrument :

MSVOA_D

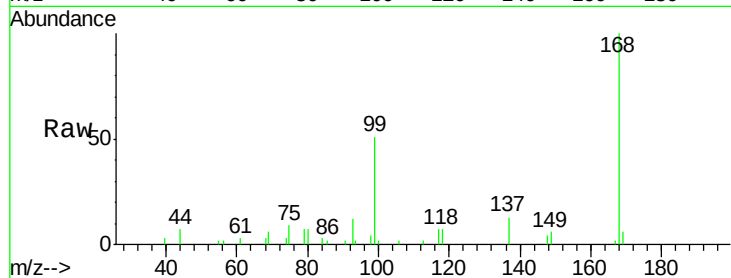
ClientSampled :

Tot Ion:168 Resp: 47584

Ion Ratio Lower Upper

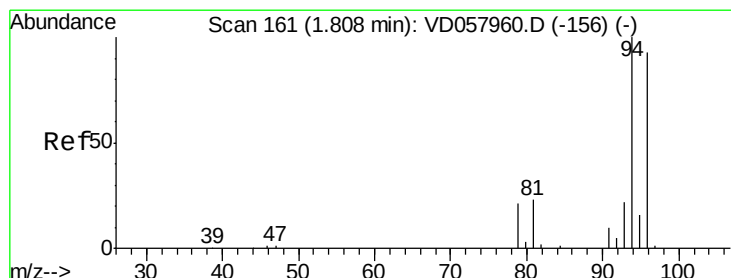
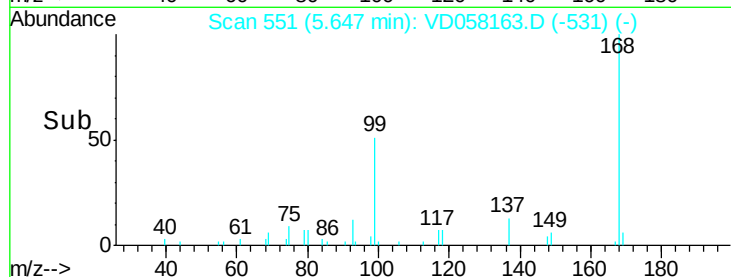
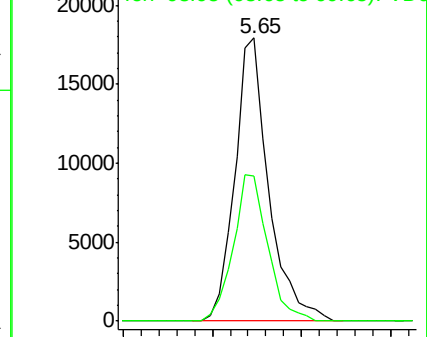
168 100

99 51.3 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 3.578 ug/l

RT: 1.80 min Scan# 160

Delta R.T. -0.01 min

Lab File: VD058163.D

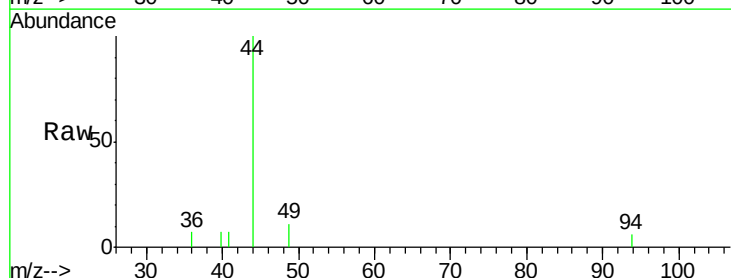
Acq: 15 Jun 2018 20:25

Tgt Ion: 94 Resp: 427

Ion Ratio Lower Upper

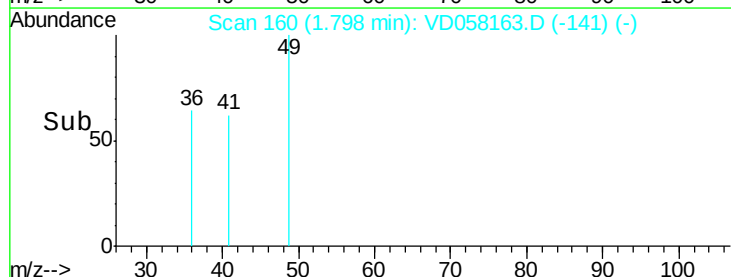
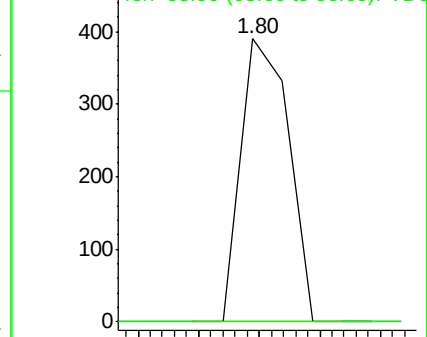
94 100

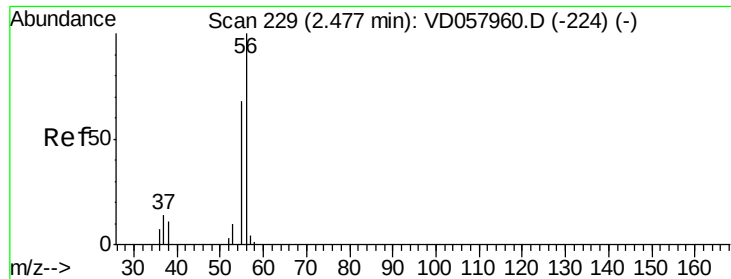
96 0.0 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#13

Acrolein

Concen: 12.328 ug/l

RT: 2.44 min Scan# 225

Delta R.T. -0.04 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

Instrument :

MSVOA_D

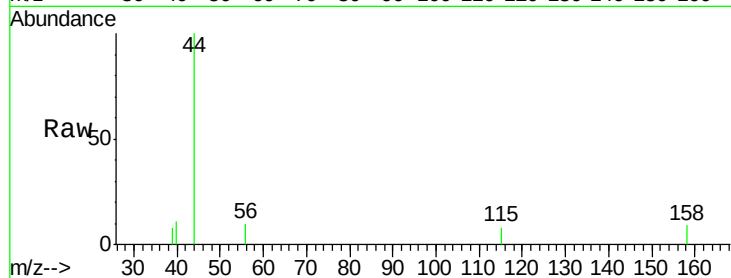
ClientSampleId :

Tot Ion: 56 Resp: 225

Ion Ratio Lower Upper

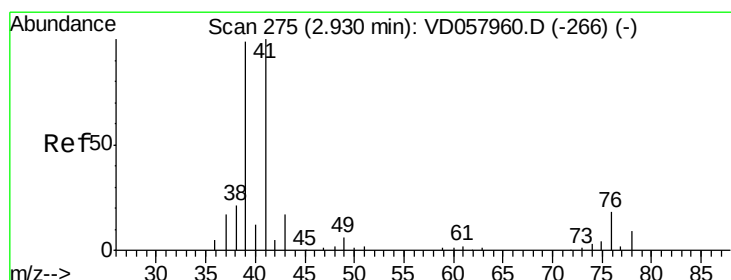
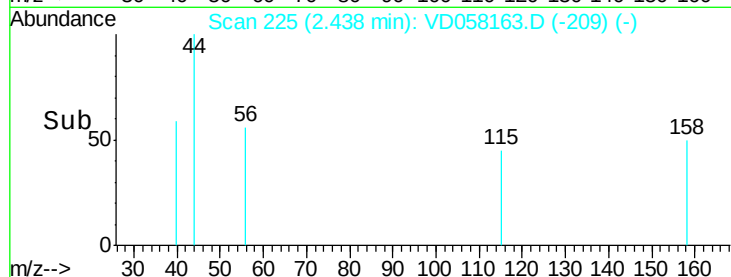
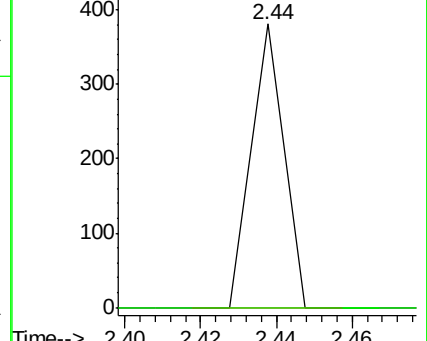
56 100

55 0.0 54.0 81.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 1.158 ug/l

RT: 2.96 min Scan# 278

Delta R.T. 0.03 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

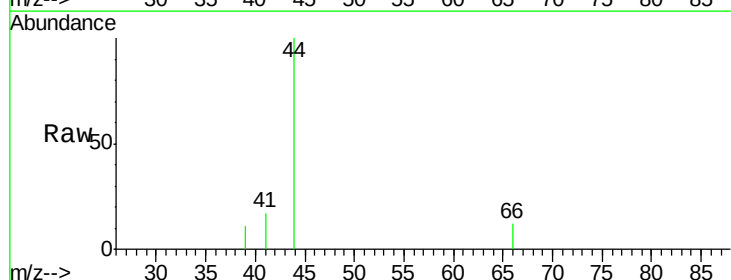
Tgt Ion: 41 Resp: 510

Ion Ratio Lower Upper

41 100

39 63.4 79.5 119.3#

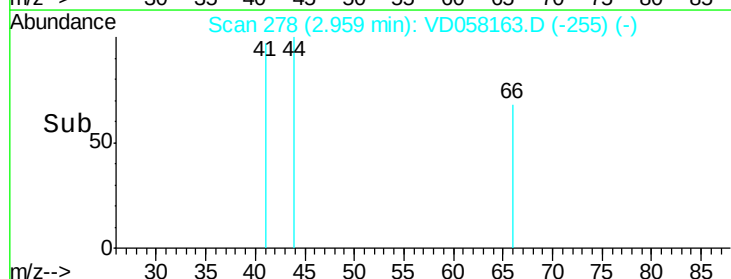
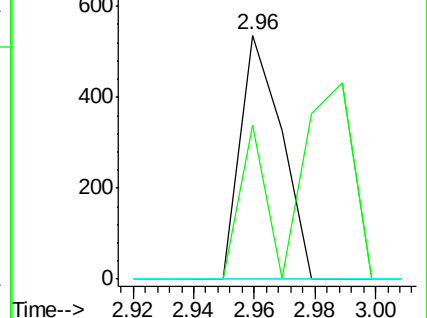
76 0.0 20.7 31.1#

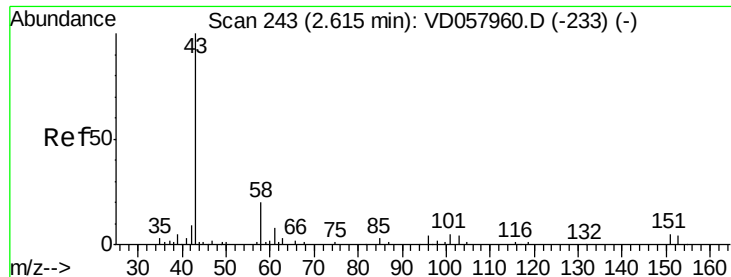


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#16

Acetone

Concen: 236.407 ug/l

RT: 2.60 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

Instrument :

MSVOA_D

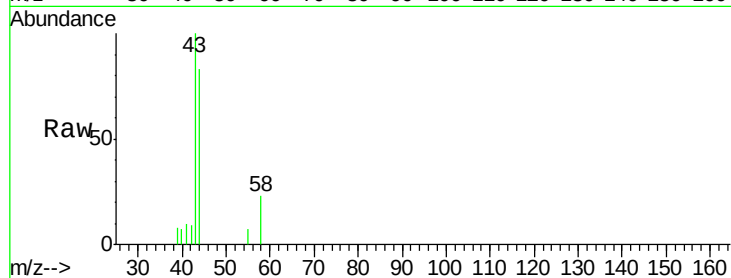
ClientSampleId :

Tot Ion: 43 Resp: 16203

Ion Ratio Lower Upper

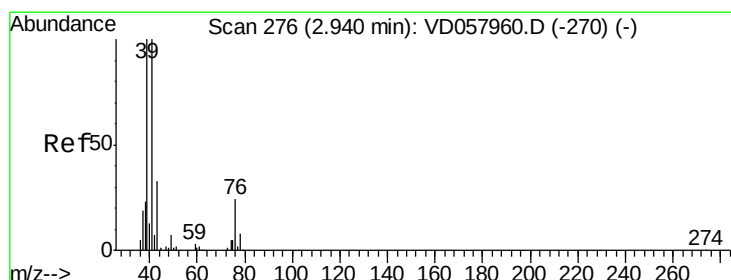
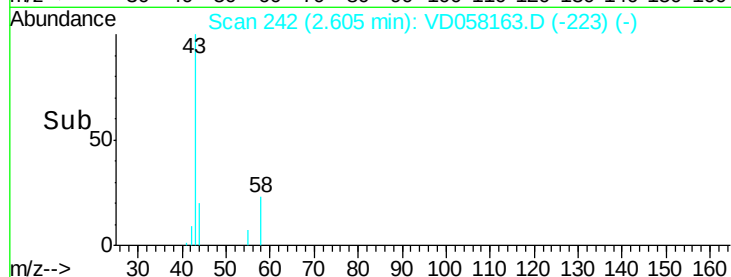
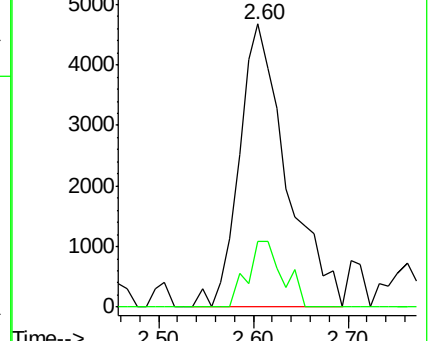
43 100

58 23.4 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 5.257 ug/l

RT: 2.93 min Scan# 275

Delta R.T. -0.01 min

Lab File: VD058163.D

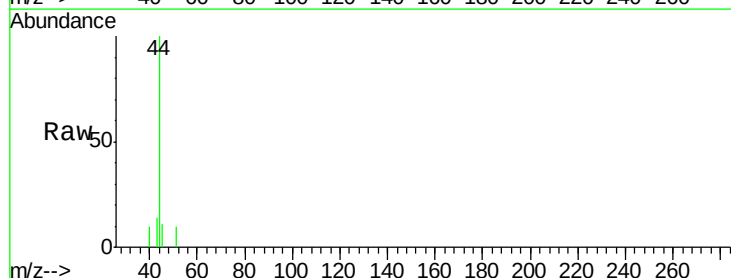
Acq: 15 Jun 2018 20:25

Tgt Ion: 43 Resp: 697

Ion Ratio Lower Upper

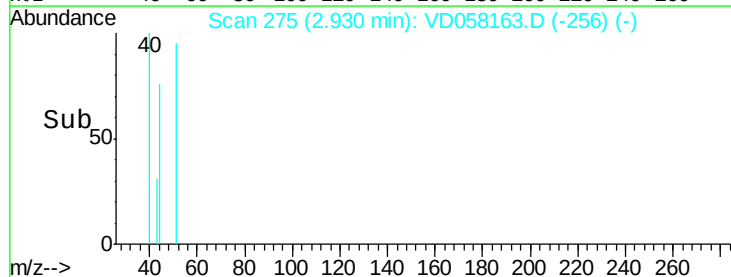
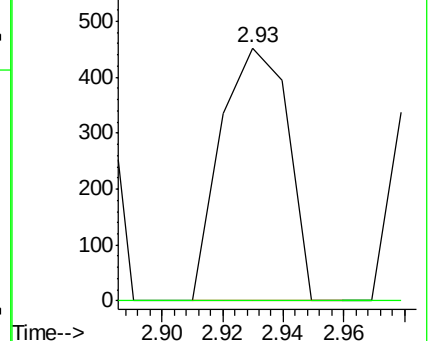
43 100

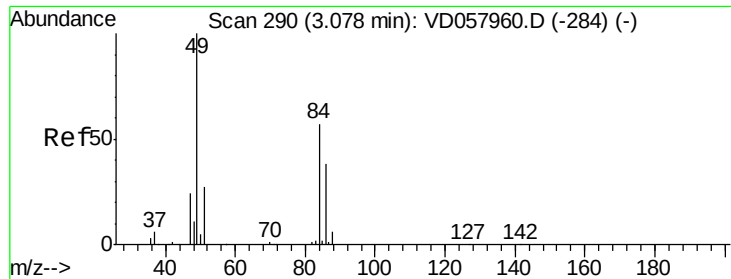
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

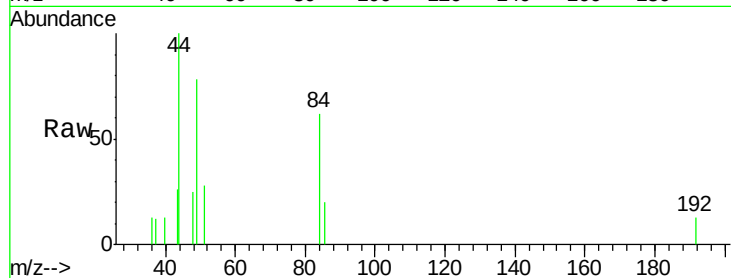




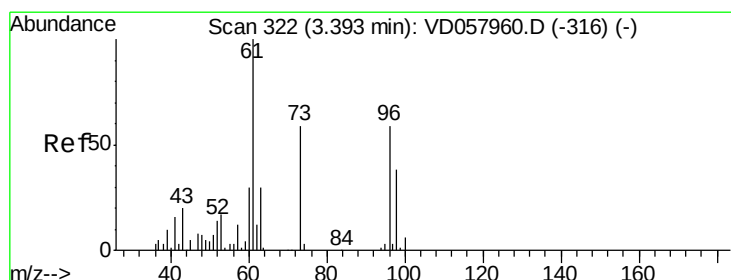
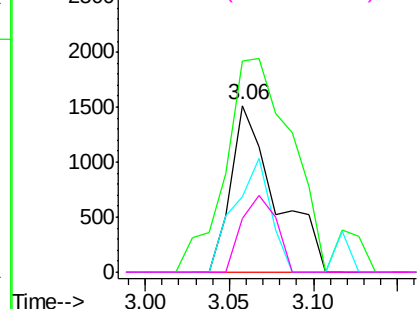
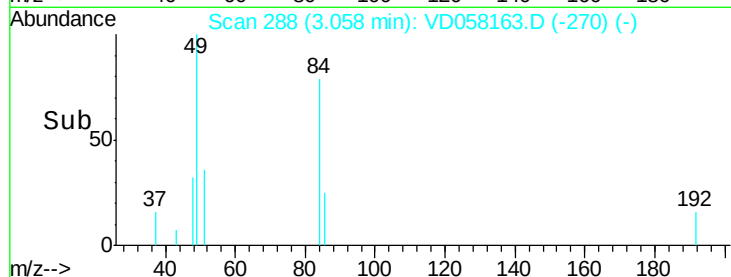
#20
Methylene Chloride
Concen: 11.257 ug/l
RT: 3.06 min Scan# 288
Delta R.T. -0.02 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 2824
Ion Ratio Lower Upper
84 100
49 126.8 141.4 212.0#
51 45.1 38.3 57.5
86 32.2 52.9 79.3#

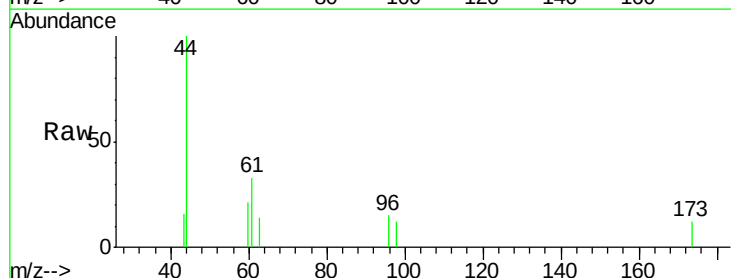


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

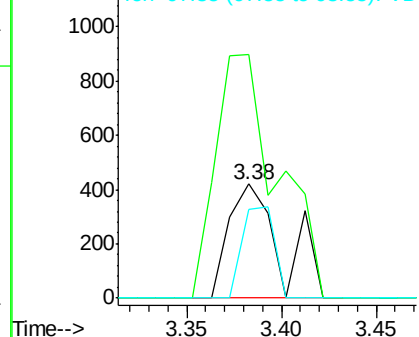
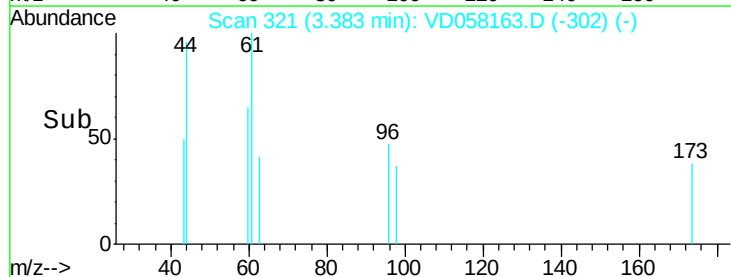


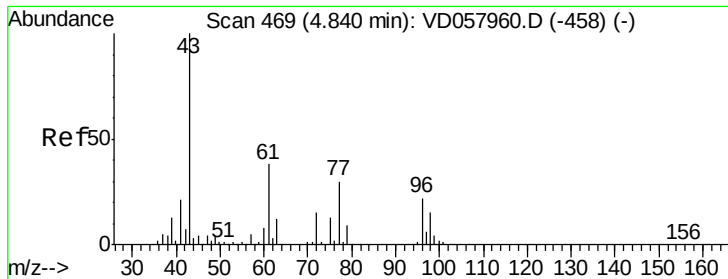
#21
trans-1,2-Dichloroethene
Concen: 1.889 ug/l
RT: 3.38 min Scan# 321
Delta R.T. -0.01 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Tgt Ion: 96 Resp: 803
Ion Ratio Lower Upper
96 100
61 213.3 135.2 202.8#
98 77.9 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





#25

2-Butanone

Concen: 32.395 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

Instrument :

MSVOA_D

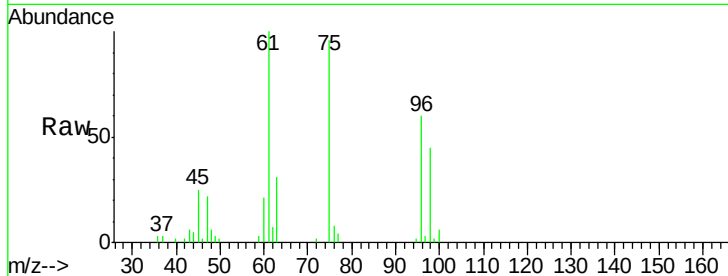
ClientSampleId :

Tot Ion: 43 Resp: 5046

Ion Ratio Lower Upper

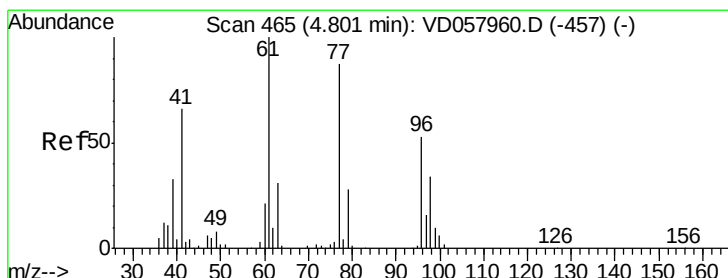
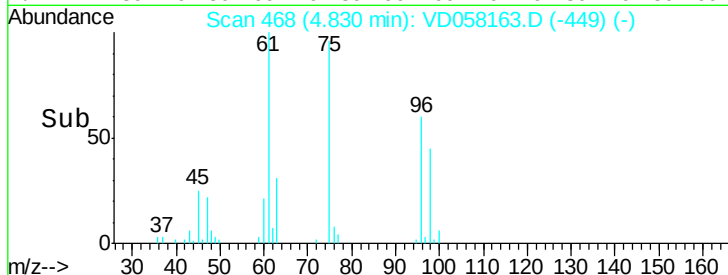
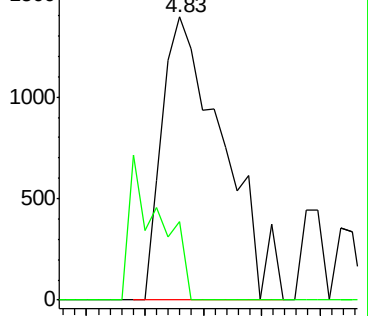
43 100

72 27.8 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 4.426 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.04 min

Lab File: VD058163.D

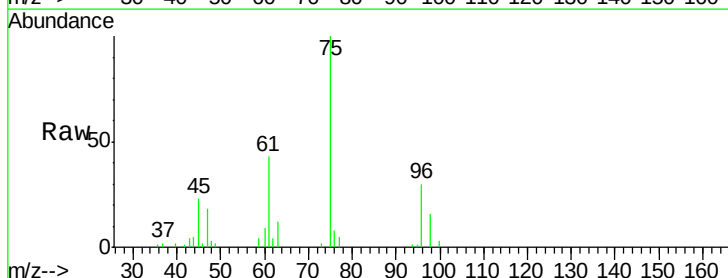
Acq: 15 Jun 2018 20:25

Tgt Ion: 77 Resp: 3495

Ion Ratio Lower Upper

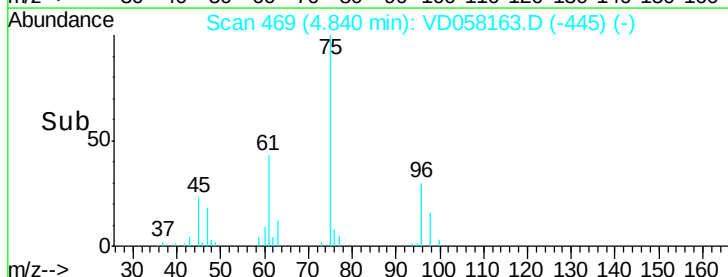
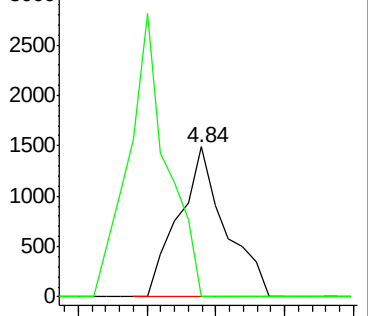
77 100

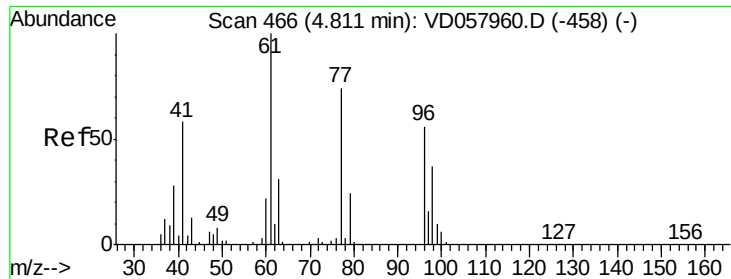
97 0.0 9.2 27.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



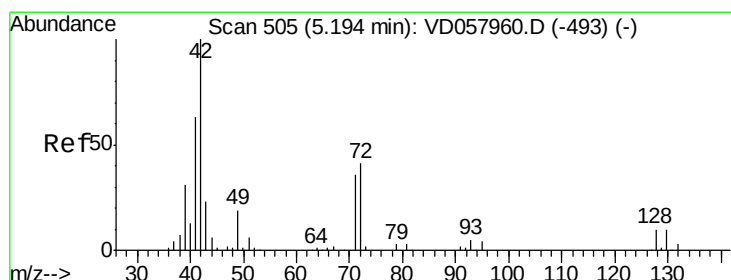
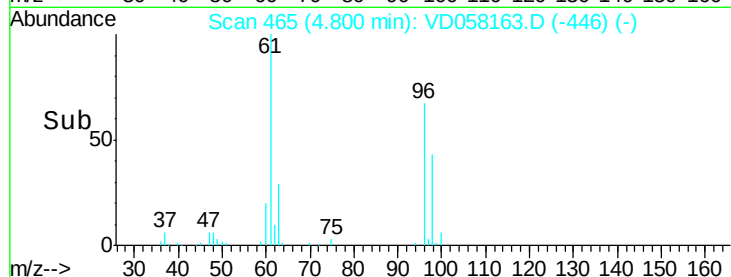
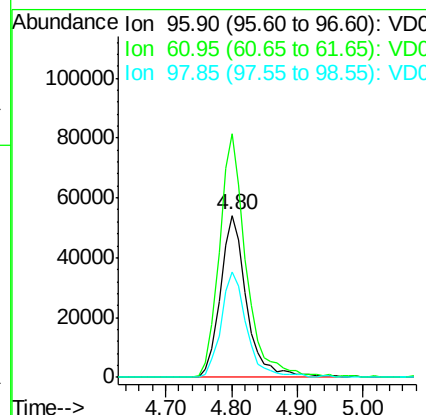
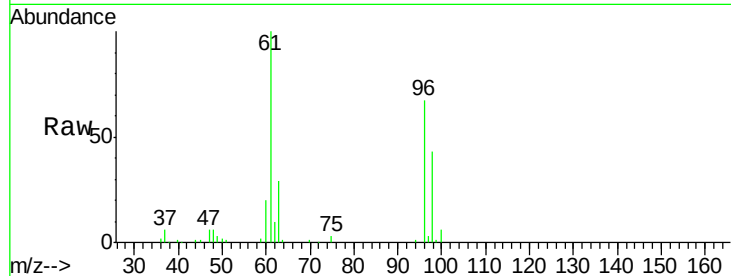


#27

cis-1,2-Dichloroethene
Concen: 295.647 ug/l
RT: 4.80 min Scan# 465
Delta R.T. -0.01 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Instrument :
MSVOA_D
ClientSampleId :

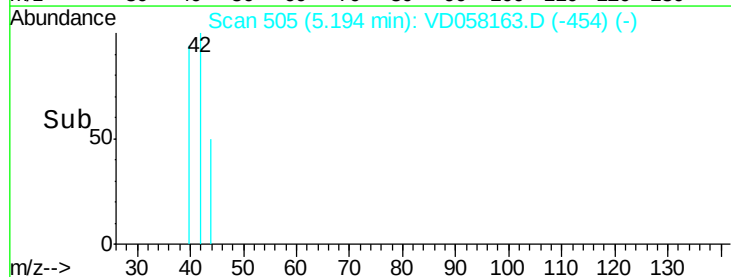
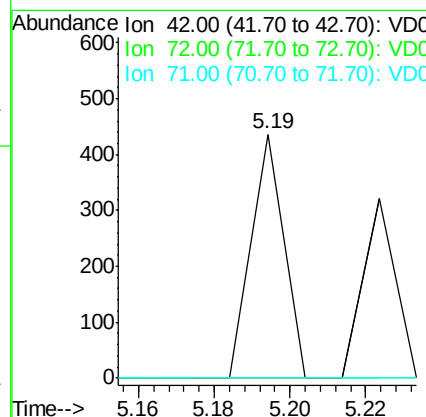
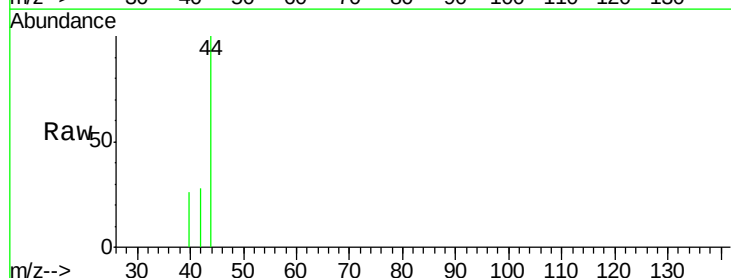
Tot Ion	Ratio	Lower	Upper
96	100		
61	150.1	0.0	355.0
98	65.0	0.0	129.6

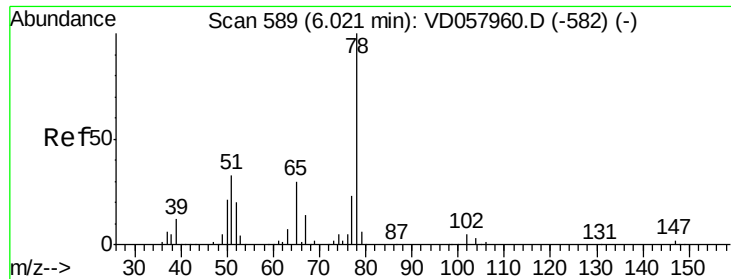


#29

Tetrahydrofuran
Concen: 3.160 ug/l
RT: 5.19 min Scan# 505
Delta R.T. -0.00 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.5	42.7#
71	0.0	27.9	41.9#

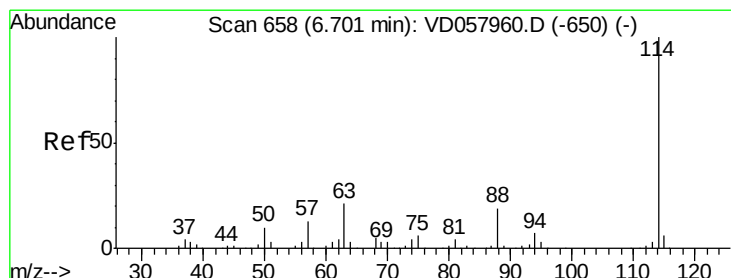
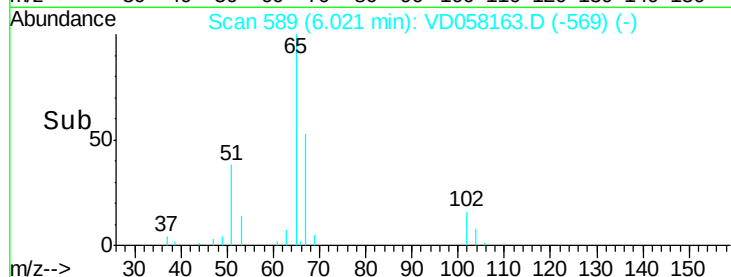
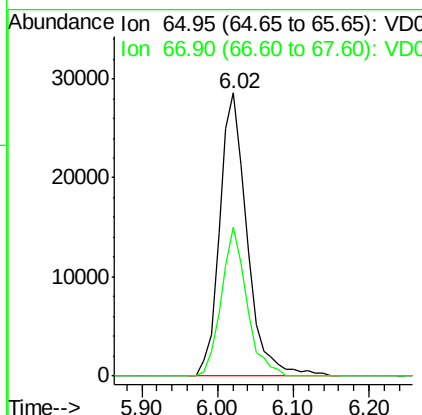
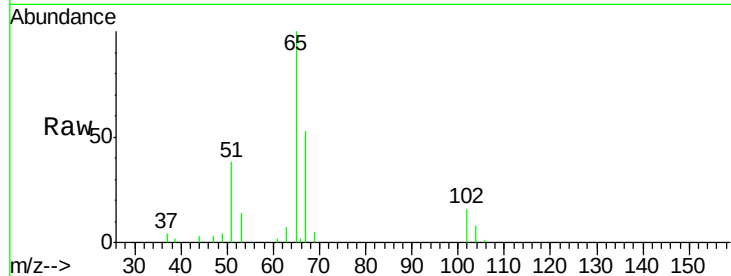




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.02 min Scan# 589
 Delta R.T. -0.00 min
 Lab File: VD058163.D
 Acq: 15 Jun 2018 20:25

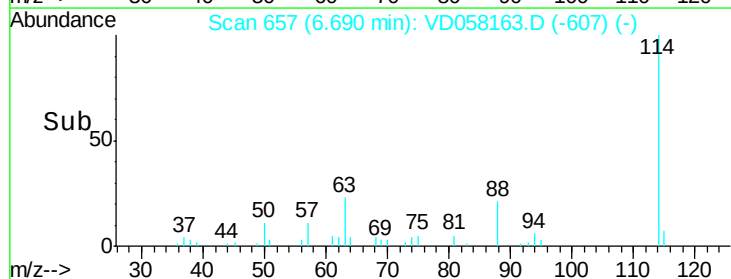
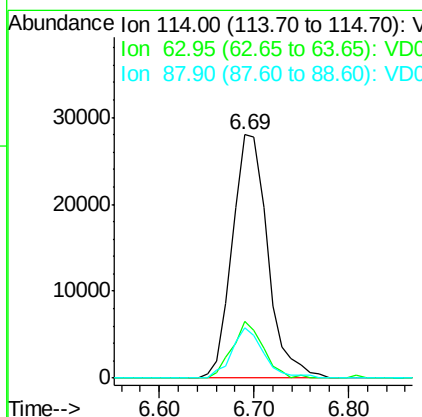
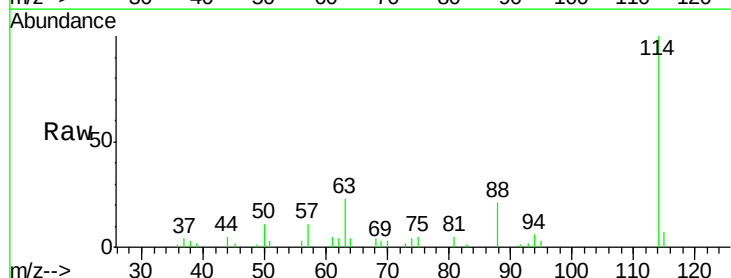
Instrument :
 MSVOA_D
 ClientSampleId :

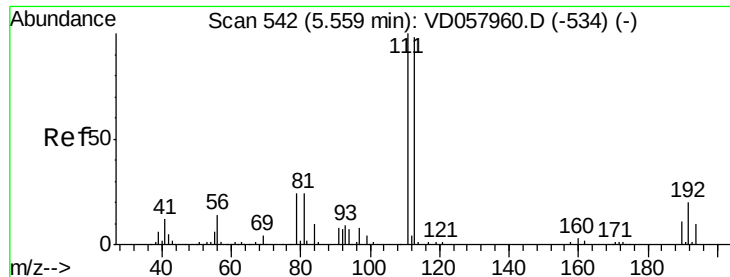
Tot Ion: 65 Resp: 71903
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VD058163.D
 Acq: 15 Jun 2018 20:25

Tgt Ion: 114 Resp: 72406
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 42.8
 88 20.6 0.0 37.8

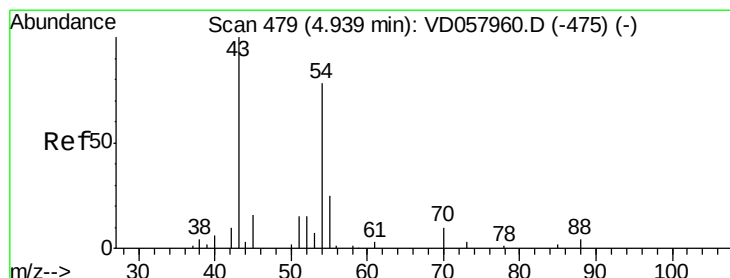
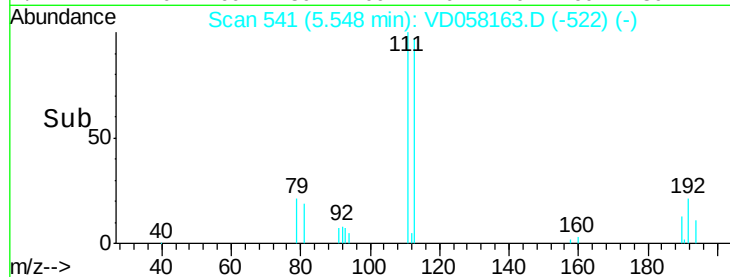
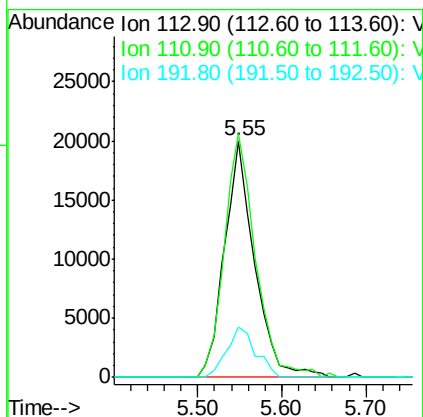
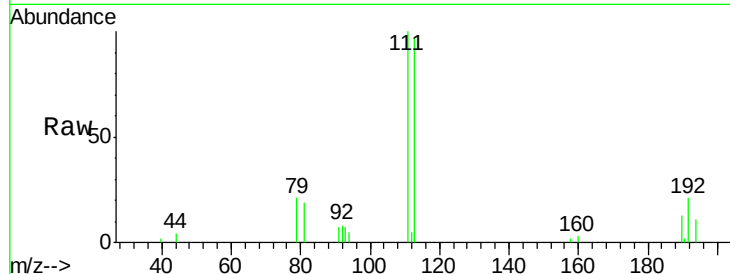




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. -0.01 min
 Lab File: VD058163.D
 Acq: 15 Jun 2018 20:25

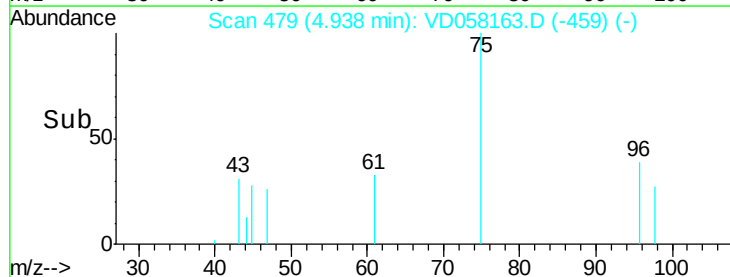
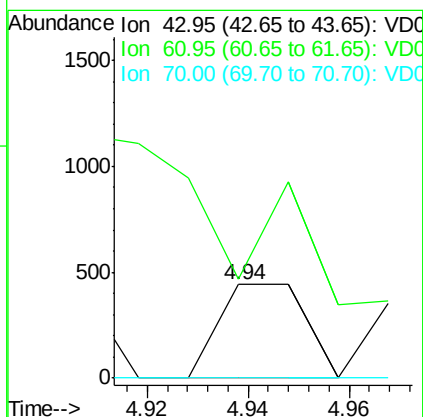
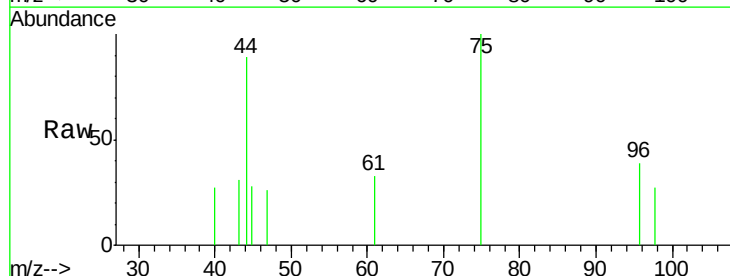
Instrument :
 MSVOA_D
 ClientSampleId :

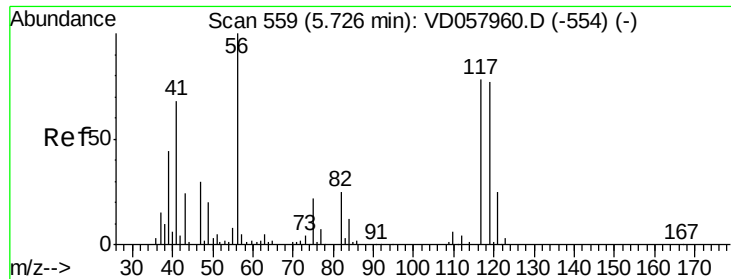
Tot Ion:113 Resp: 49670
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.5 122.3
 192 21.3 16.4 24.6



#37
 Ethyl Acetate
 Concen: 1.202 ug/l
 RT: 4.94 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VD058163.D
 Acq: 15 Jun 2018 20:25

Tgt Ion: 43 Resp: 523
 Ion Ratio Lower Upper
 43 100
 61 105.9 9.9 14.9#
 70 0.0 5.7 8.5#

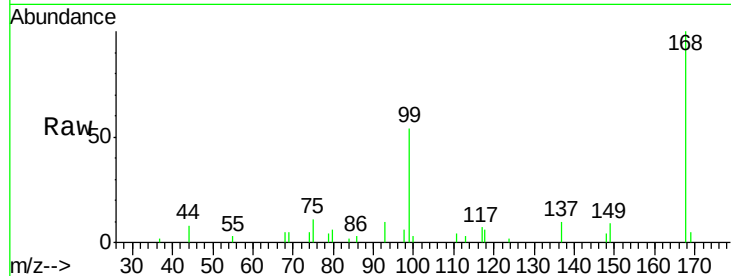




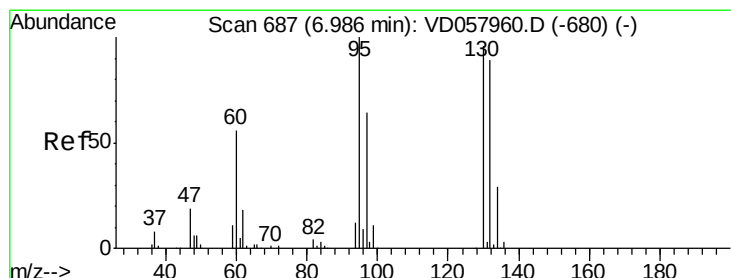
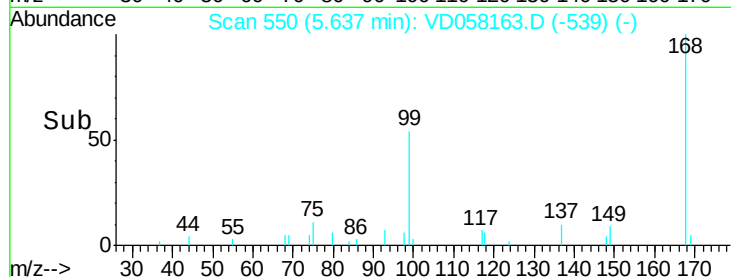
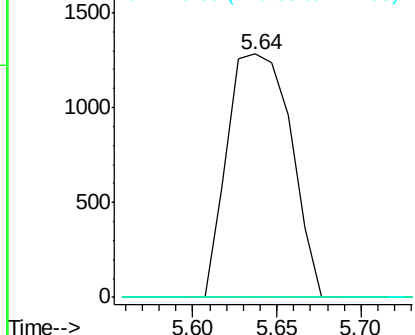
#38
Carbon Tetrachloride
Concen: 4.270 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.09 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 3357
Ion Ratio Lower Upper
117 100
119 0.0 76.1 114.1#
121 0.0 24.9 37.3#

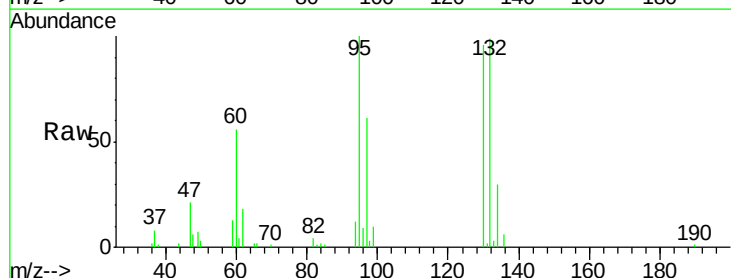


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

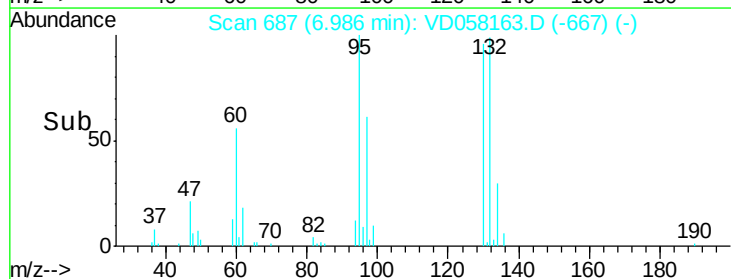
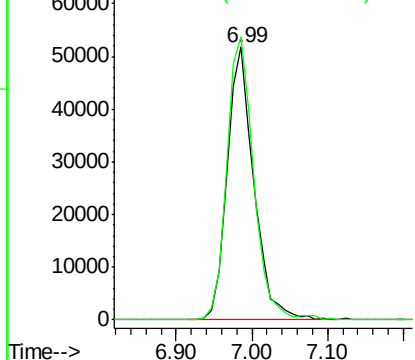


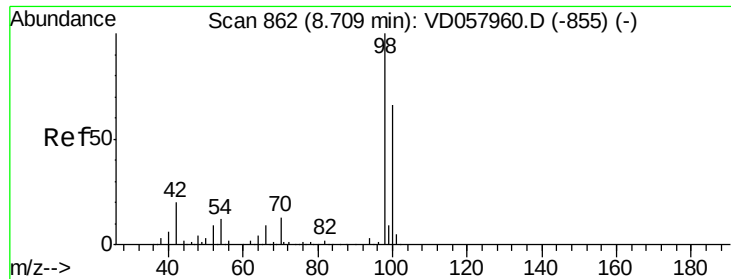
#44
Trichloroethene
Concen: 229.753 ug/l
RT: 6.99 min Scan# 687
Delta R.T. -0.00 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Tgt Ion:130 Resp: 125061
Ion Ratio Lower Upper
130 100
95 103.8 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

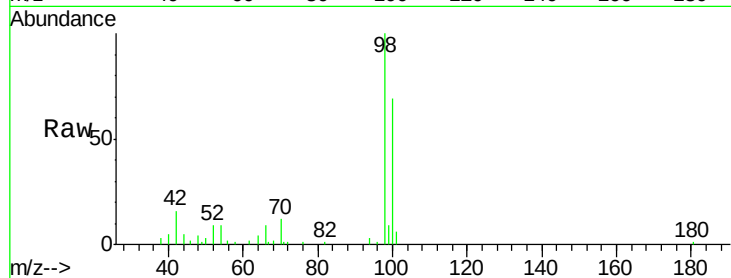




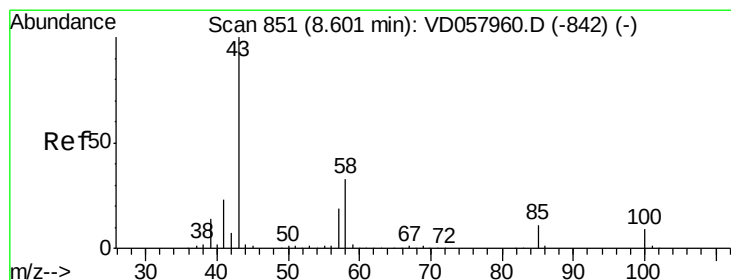
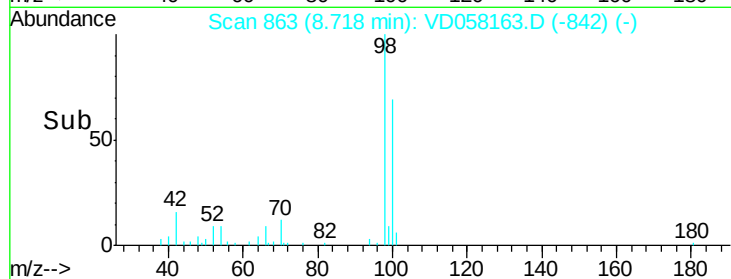
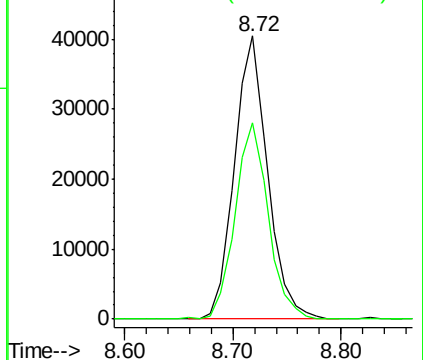
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.01 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 85759
Ion Ratio Lower Upper
98 100
100 69.4 53.4 80.0

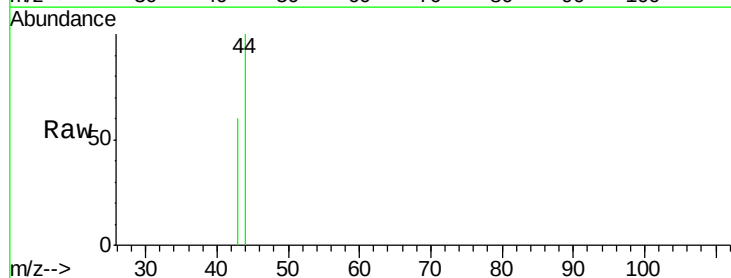


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

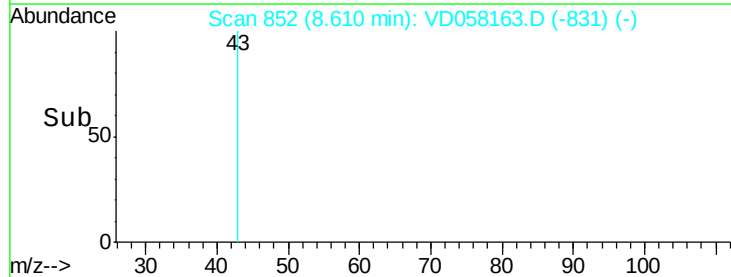
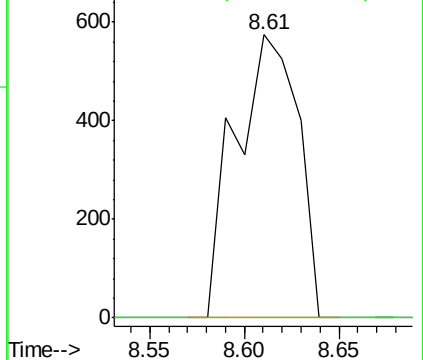


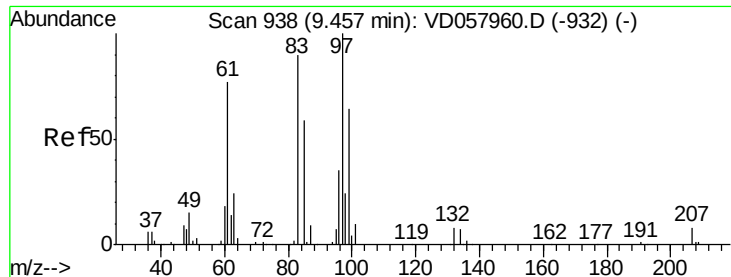
#51
4-Methyl-2-Pentanone
Concen: 3.615 ug/l
RT: 8.61 min Scan# 852
Delta R.T. 0.01 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Tgt Ion: 43 Resp: 1322
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.4#



Abundance Ion 42.95 (42.65 to 43.65): VD0
Ion 57.95 (57.65 to 58.65): VD0





#55

1,1,2-Trichloroethane

Concen: 16.800 ug/l

RT: 9.53 min Scan# 945

Delta R.T. 0.07 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 97 Resp: 5815

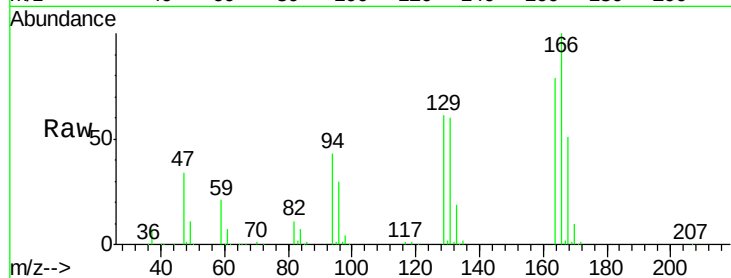
Ion Ratio Lower Upper

97 100

83 208.5 71.8 107.8#

85 21.4 47.2 70.8#

99 16.7 51.4 77.0#

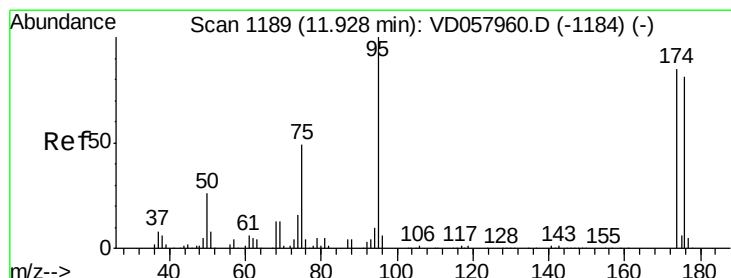
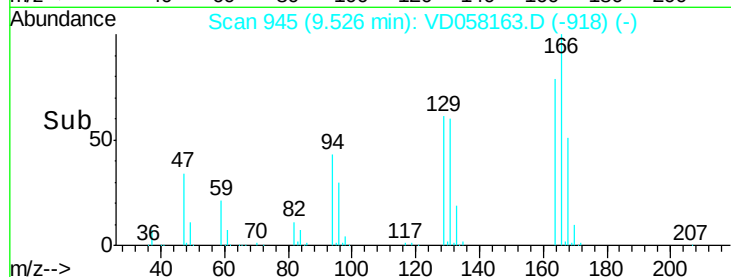
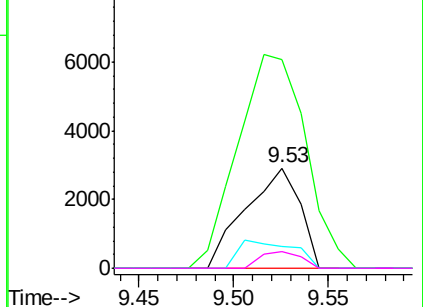


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.95 min Scan# 1191

Delta R.T. 0.02 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

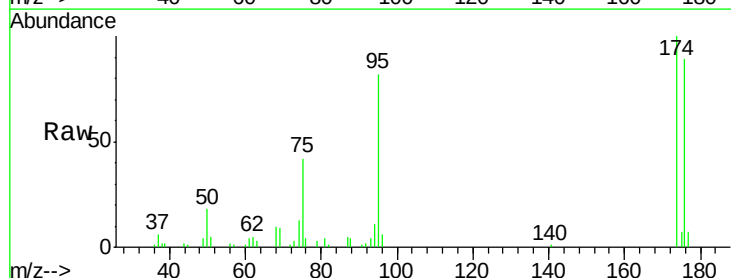
Tgt Ion: 95 Resp: 37907

Ion Ratio Lower Upper

95 100

174 122.3 0.0 169.4

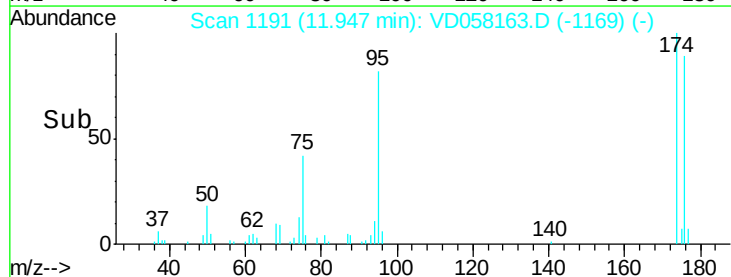
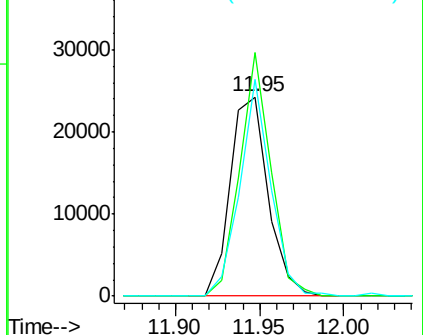
176 108.8 0.0 162.6

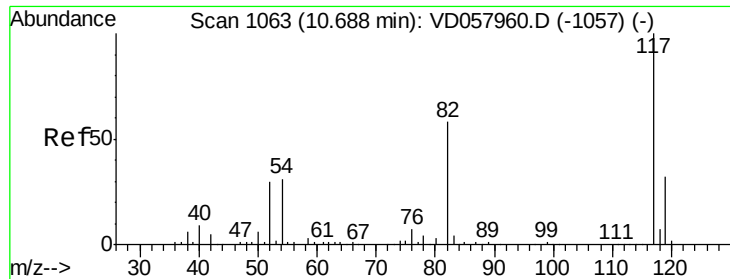


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

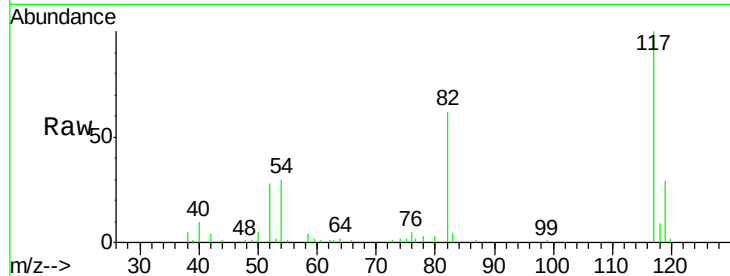




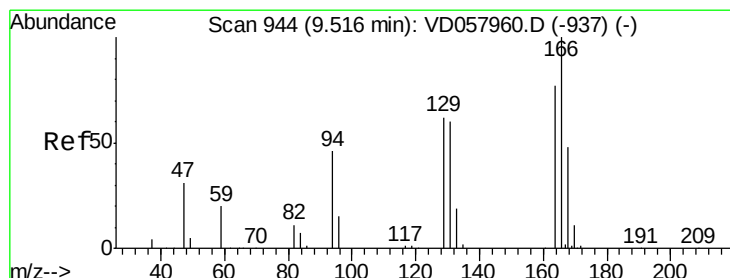
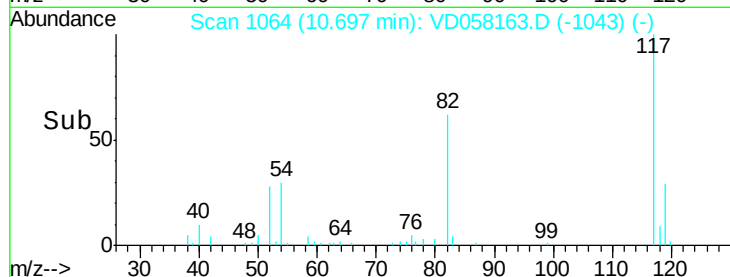
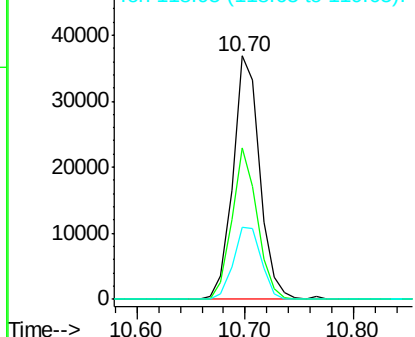
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 63481
Ion Ratio Lower Upper
117 100
82 62.2 46.8 70.2
119 29.4 25.8 38.6

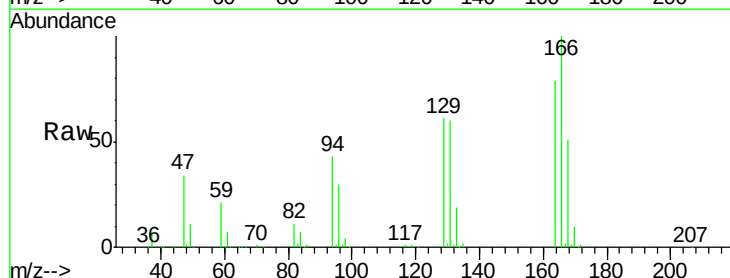


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

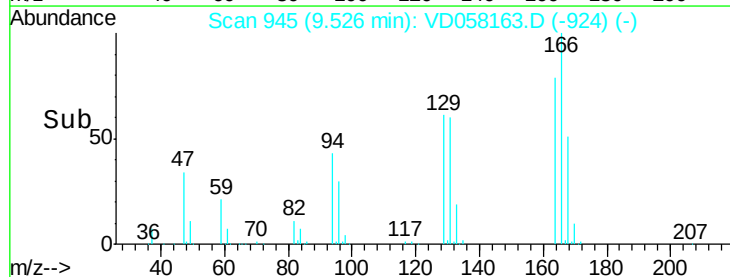
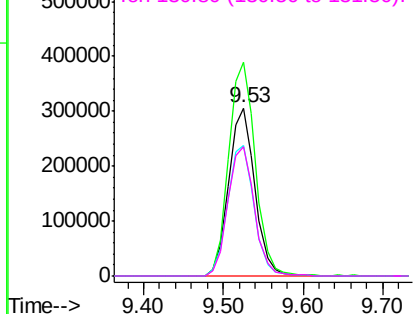


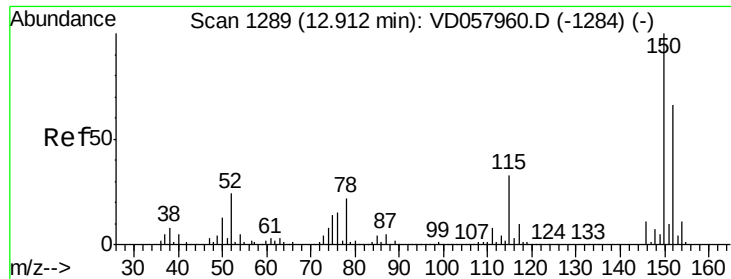
#64
Tetrachloroethene
Concen: 1238.658 ug/l
RT: 9.53 min Scan# 945
Delta R.T. 0.01 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Tgt Ion:164 Resp: 702964
Ion Ratio Lower Upper
164 100
166 126.9 104.4 156.6
129 77.7 65.0 97.6
131 76.7 62.9 94.3



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.92 min Scan# 1290

Delta R.T. 0.01 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

Instrument :

MSVOA_D

ClientSampleId :

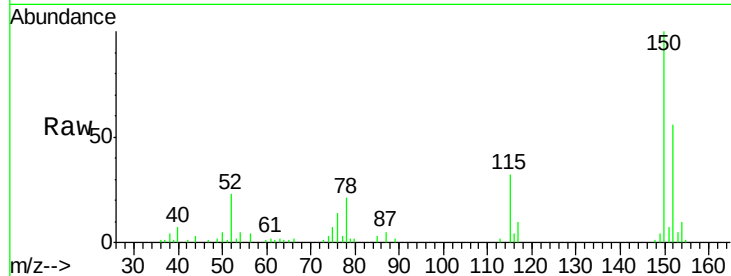
Tot Ion:152 Resp: 28041

Ion Ratio Lower Upper

152 100

115 58.1 25.6 76.6

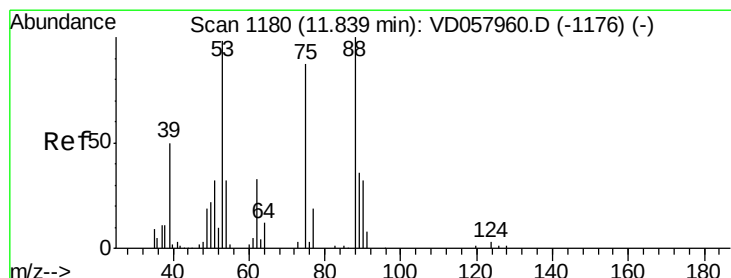
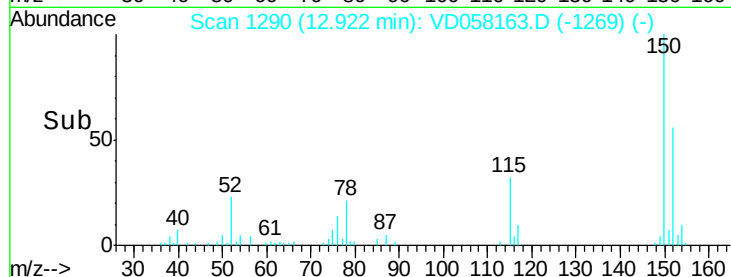
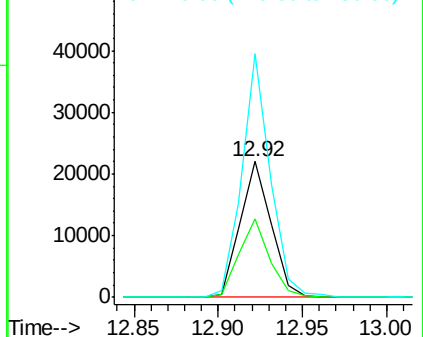
150 179.0 0.0 306.8



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: 164.700 ug/l

RT: 11.95 min Scan# 1191

Delta R.T. 0.11 min

Lab File: VD058163.D

Acq: 15 Jun 2018 20:25

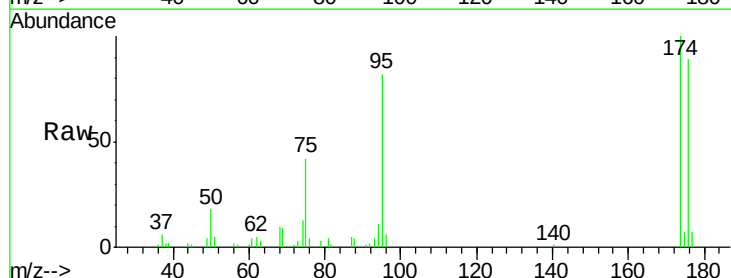
Tgt Ion: 75 Resp: 17183

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

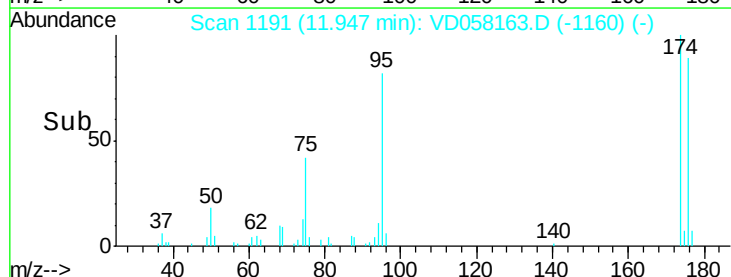
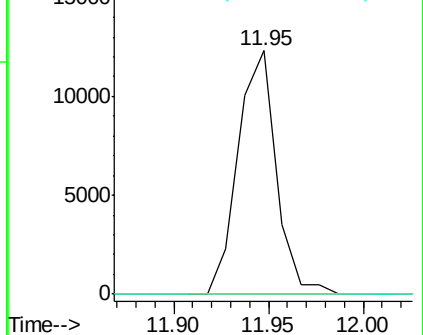
89 0.0 33.3 49.9#

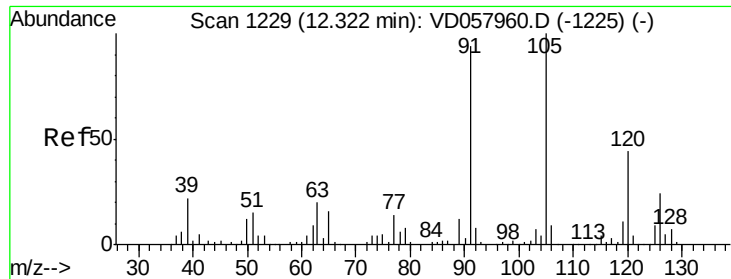


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

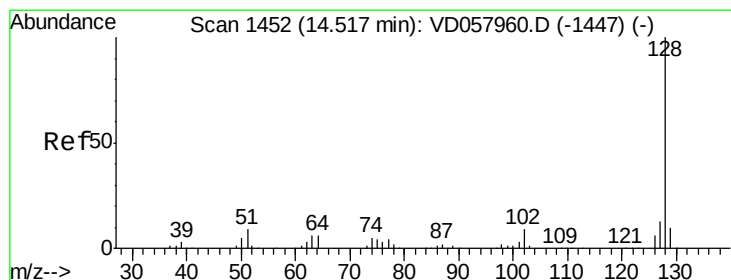
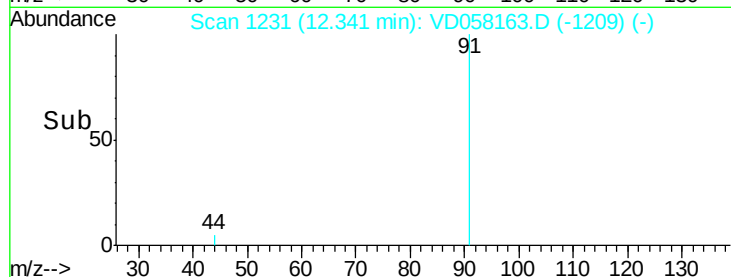
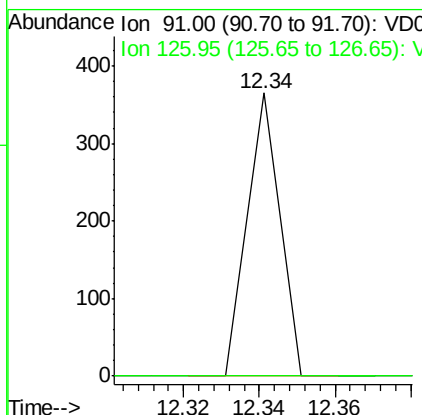
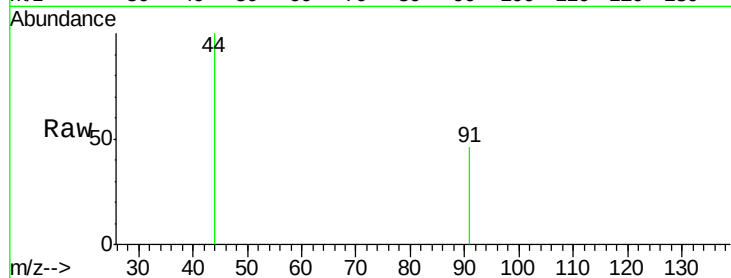




#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.34 min Scan# 1231
Delta R.T. 0.02 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 91 Resp: 216
Ion Ratio Lower Upper
91 100
126 0.0 12.5 37.5#



#95
Naphthalene
Concen: 1.361 ug/l
RT: 14.53 min Scan# 1453
Delta R.T. 0.01 min
Lab File: VD058163.D
Acq: 15 Jun 2018 20:25

Tgt Ion: 128 Resp: 1232
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.2 12.2#

