

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080219\
 Data File : VD06342.D
 Acq On : 3 Aug 2019 4:38
 Operator : VA/AP
 Sample : K4129-02
 Misc : 5.34g/5ml/MSVOA_D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

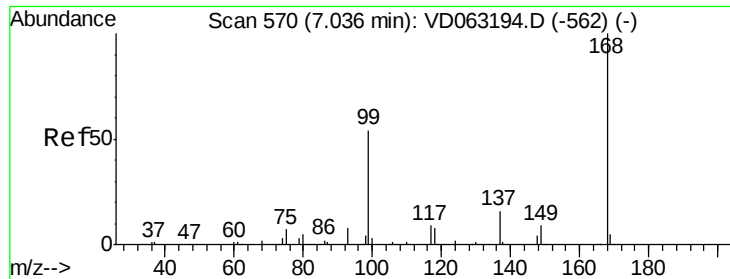
Quant Time: Aug 04 03:44:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	687851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	926751	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	822993	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	378826	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	427929	56.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.14%	
35) Dibromofluoromethane	6.92	113	432010	54.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.20%	
50) Toluene-d8	10.40	98	846173	47.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.56%	
62) 4-Bromofluorobenzene	13.55	95	344409	42.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.06	59	2713	8.100	ug/l #	69
13) Acrolein	3.08	56	542	1.681	ug/l	87
16) Acetone	3.22	43	29268	19.681	ug/l	99
20) Methylene Chloride	3.81	84	22676	3.772	ug/l	98
25) 2-Butanone	6.16	43	12402	8.310	ug/l #	56
29) Tetrahydrofuran	6.47	42	1190	1.684	ug/l #	61
31) Cyclohexane	7.04	56	15285	2.248	ug/l #	10
36) 1,1-Dichloropropene	7.04	75	49679	5.874	ug/l #	53
37) Ethyl Acetate	6.16	43	12403	3.264	ug/l #	36
38) Carbon Tetrachloride	7.04	117	64363	5.055	ug/l #	13
51) 4-Methyl-2-Pentanone	10.40	43	4747	1.438	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	159921	126.570	ug/l #	3

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

Instrument :

MSVOA_D

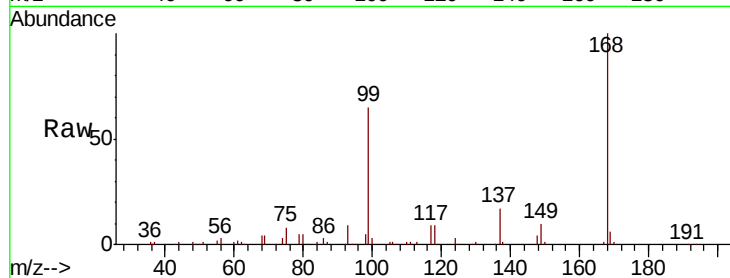
ClientSampleId :

Tgt Ion:168 Resp: 687851

Ion Ratio Lower Upper

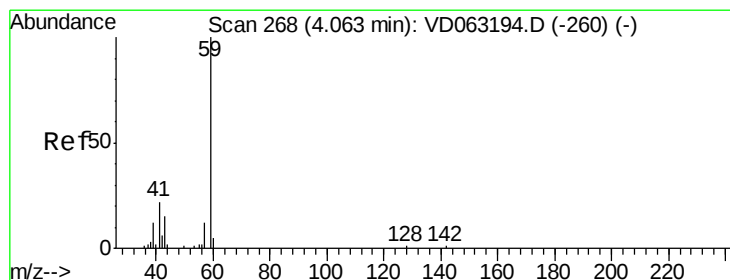
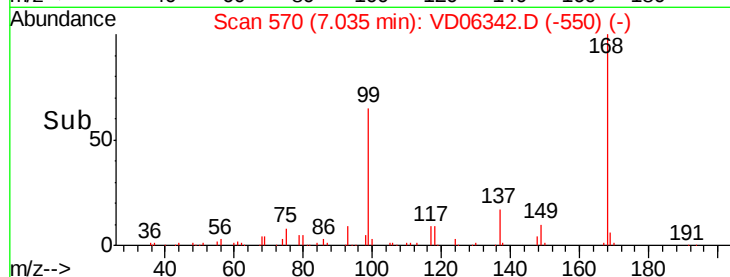
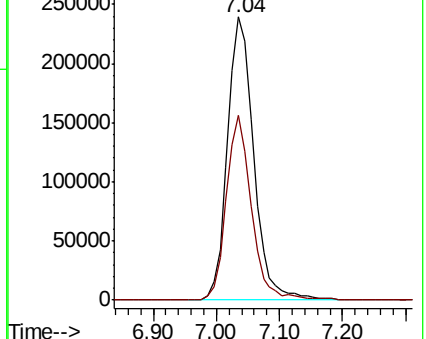
168 100

99 65.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 8.100 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.00 min

Lab File: VD06342.D

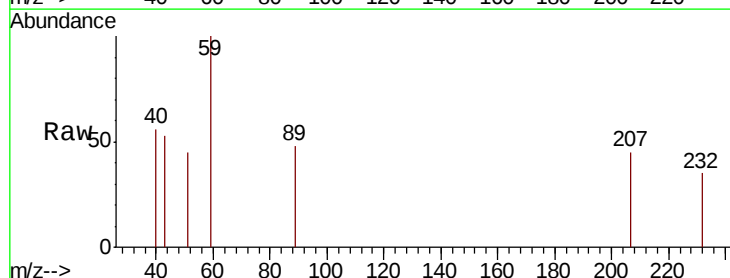
Acq: 3 Aug 2019 4:38

Tgt Ion: 59 Resp: 2713

Ion Ratio Lower Upper

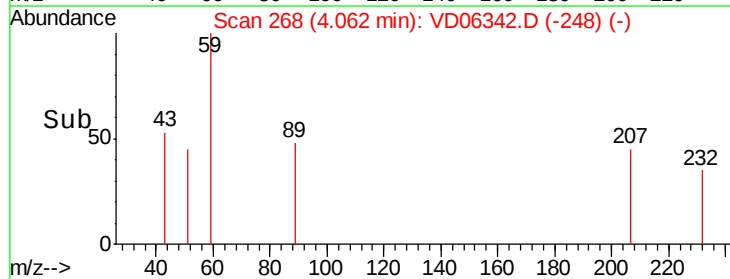
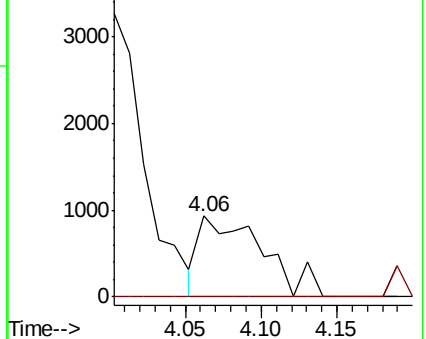
59 100

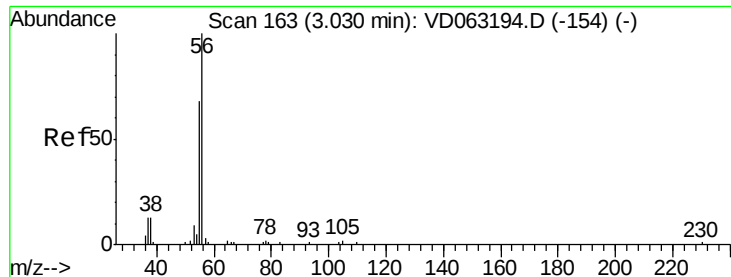
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.681 ug/l

RT: 3.08 min Scan# 168

Delta R.T. 0.05 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

Instrument :

MSVOA_D

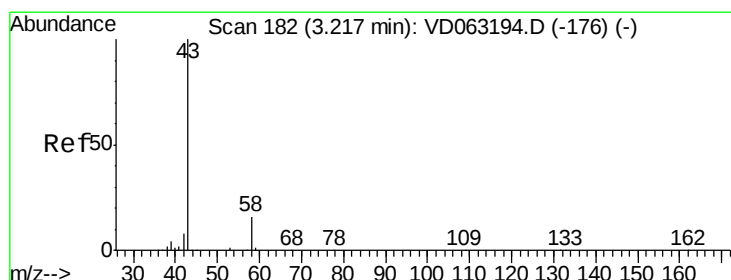
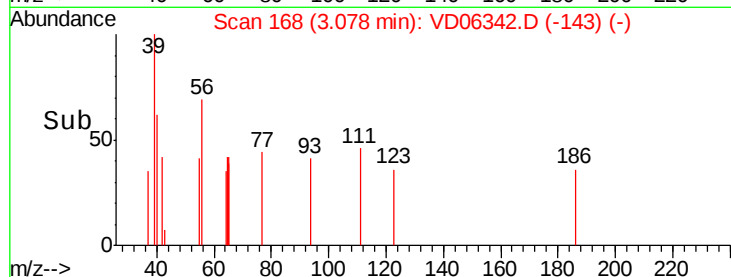
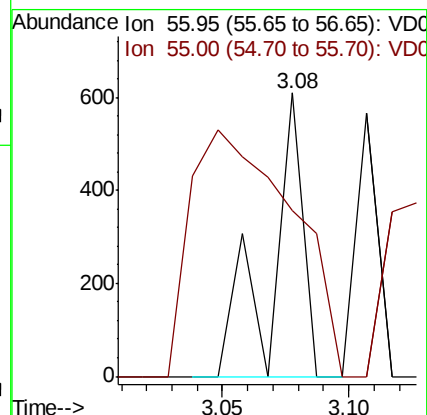
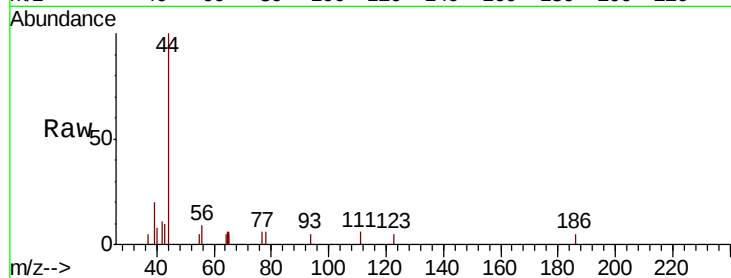
ClientSampleId :

Tgt Ion: 56 Resp: 542

Ion Ratio Lower Upper

56 100

55 58.7 55.3 82.9



#16

Acetone

Concen: 19.681 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD06342.D

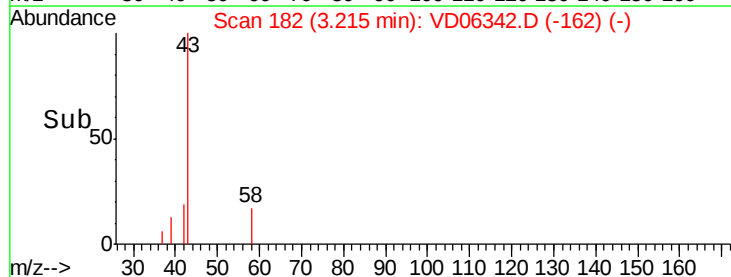
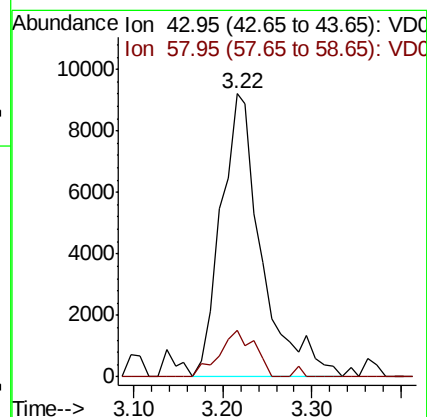
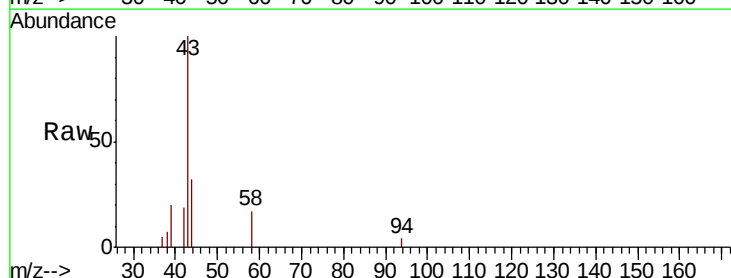
Acq: 3 Aug 2019 4:38

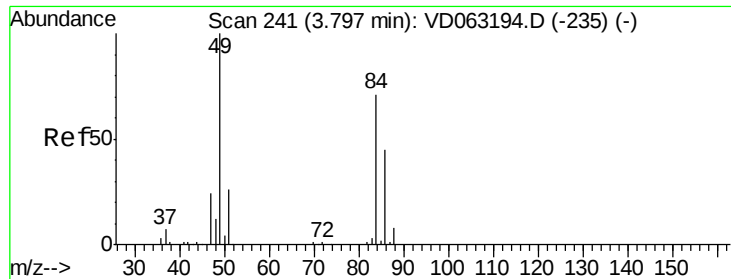
Tgt Ion: 43 Resp: 29268

Ion Ratio Lower Upper

43 100

58 16.6 13.0 19.4

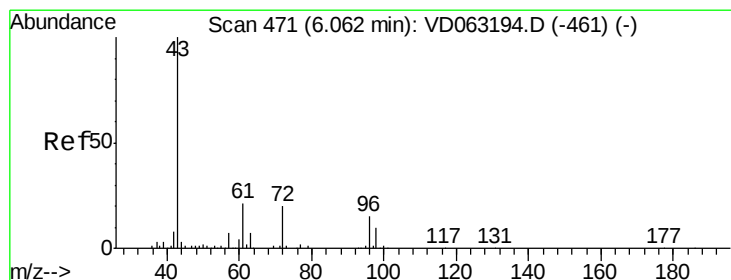
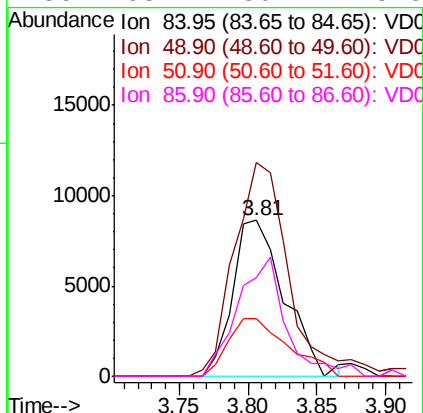
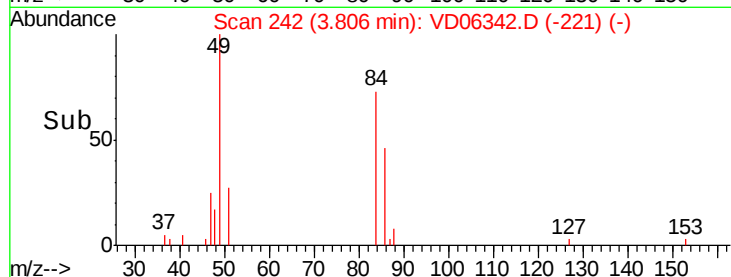
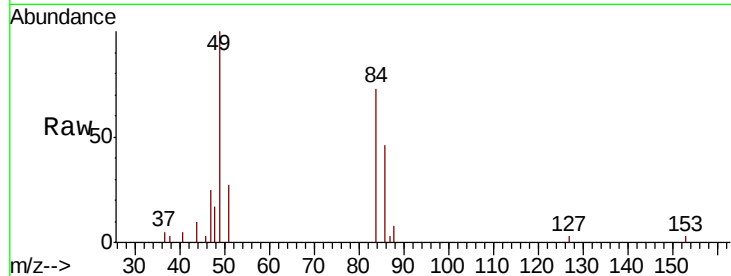




#20
Methylene Chloride
Concen: 3.772 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD06342.D
Acq: 3 Aug 2019 4:38

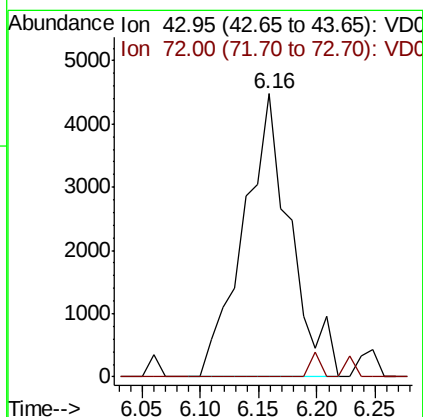
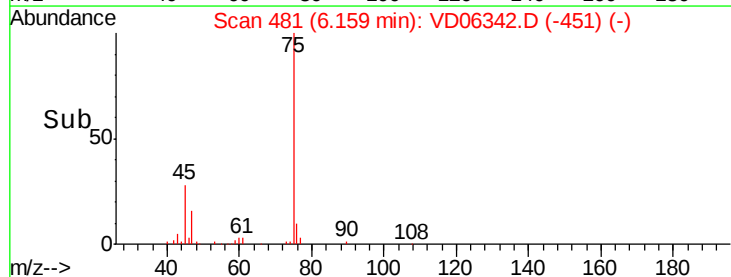
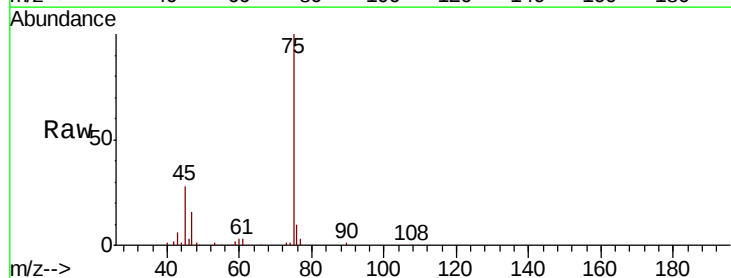
Instrument :
MSVOA_D
ClientSampleId :

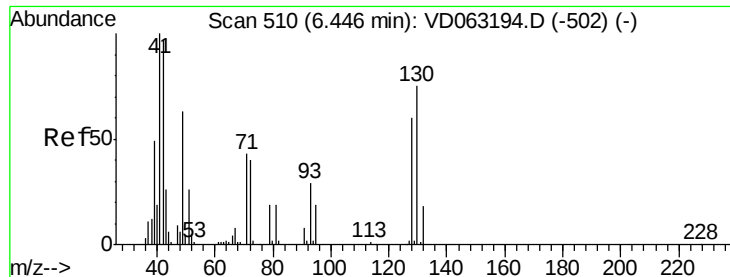
Tgt Ion: 84 Resp: 22676
Ion Ratio Lower Upper
84 100
49 137.2 112.5 168.7
51 36.7 29.6 44.4
86 63.7 50.4 75.6



#25
2-Butanone
Concen: 8.310 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.10 min
Lab File: VD06342.D
Acq: 3 Aug 2019 4:38

Tgt Ion: 43 Resp: 12402
Ion Ratio Lower Upper
43 100
72 0.0 16.3 24.5#





#29

Tetrahydrofuran

Concen: 1.684 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

Instrument :

MSVOA_D

ClientSampleId :

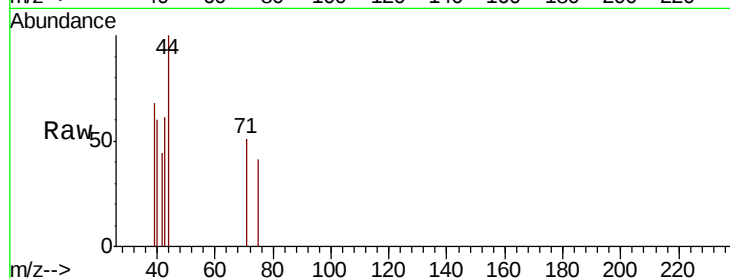
Tgt Ion: 42 Resp: 1190

Ion Ratio Lower Upper

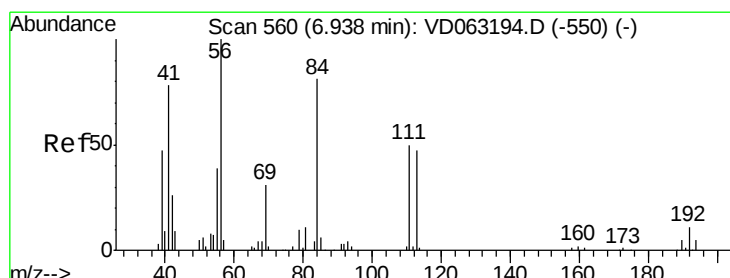
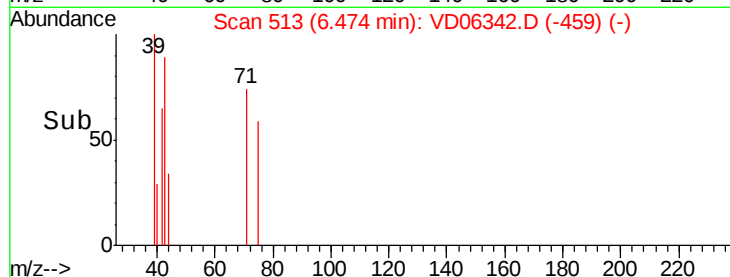
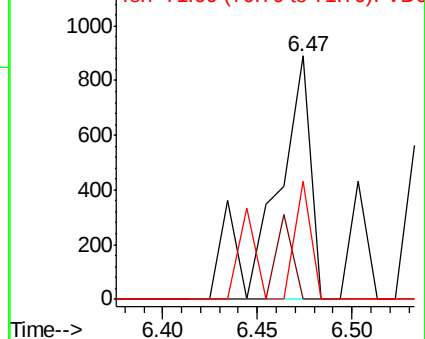
42 100

72 15.5 33.4 50.2#

71 21.4 35.7 53.5#



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: 2.248 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

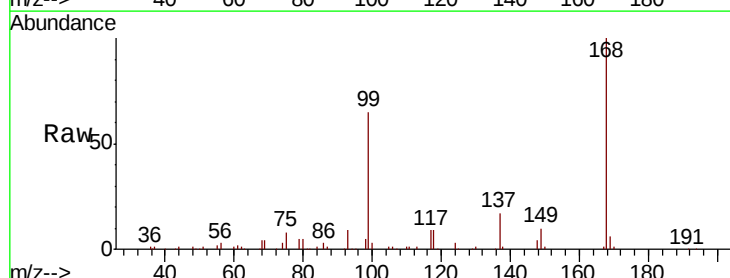
Tgt Ion: 56 Resp: 15285

Ion Ratio Lower Upper

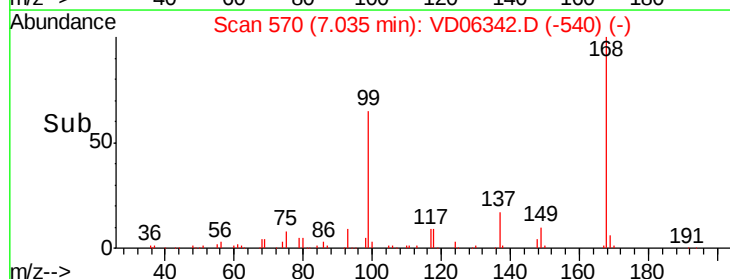
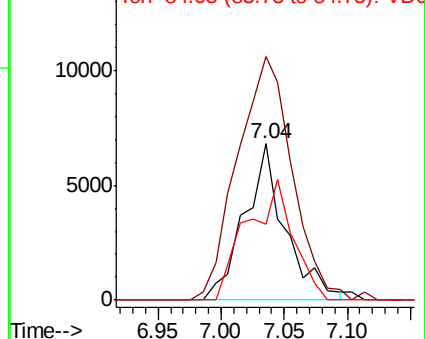
56 100

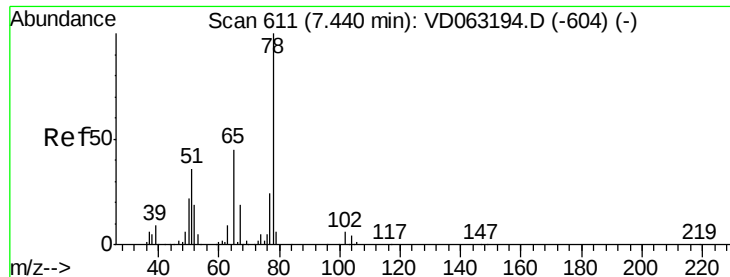
69 155.9 24.5 36.7#

84 48.4 64.9 97.3#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 56.068 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

Instrument :

MSVOA_D

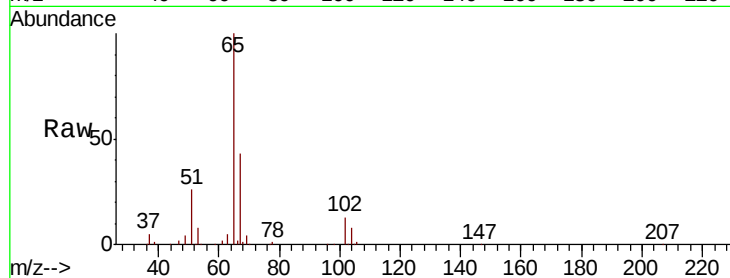
ClientSampleId :

Tgt Ion: 65 Resp: 427929

Ion Ratio Lower Upper

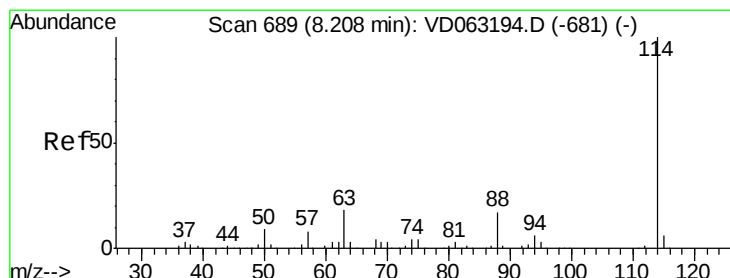
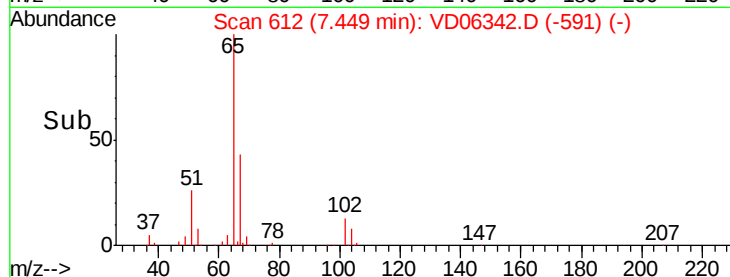
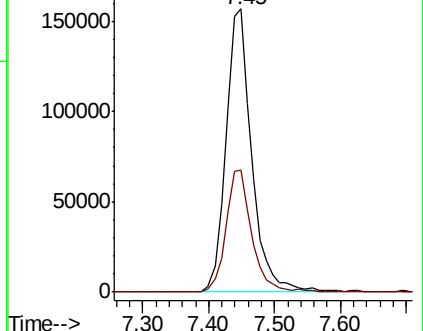
65 100

67 43.0 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

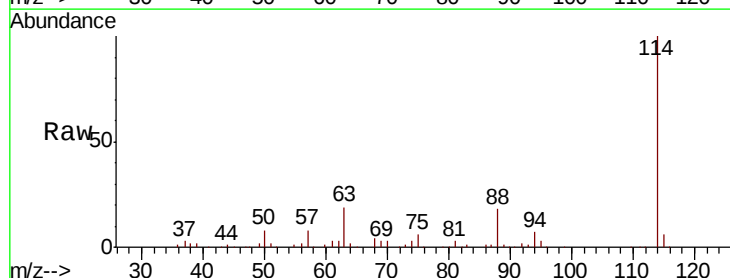
Tgt Ion: 114 Resp: 926751

Ion Ratio Lower Upper

114 100

63 19.2 0.0 35.2

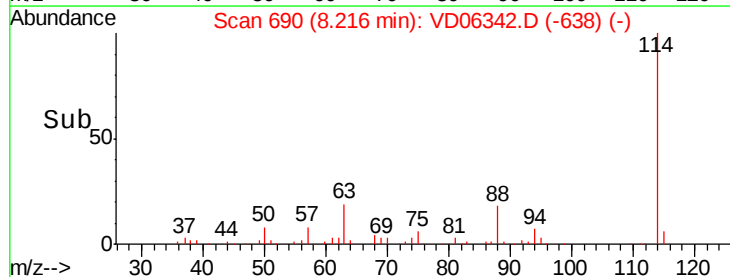
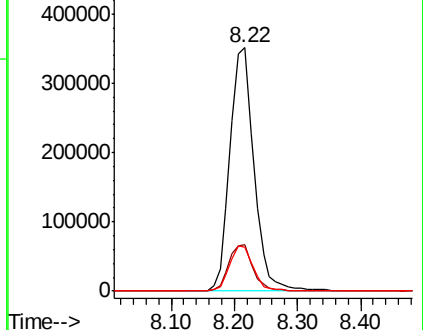
88 17.9 0.0 34.6

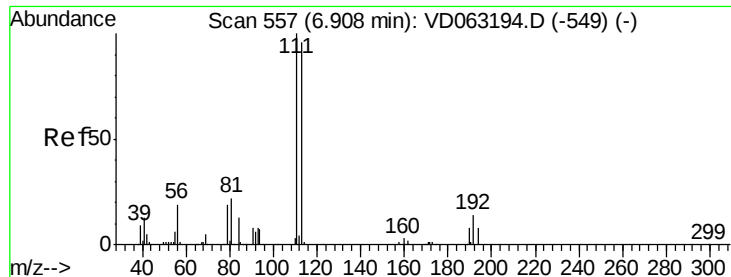


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

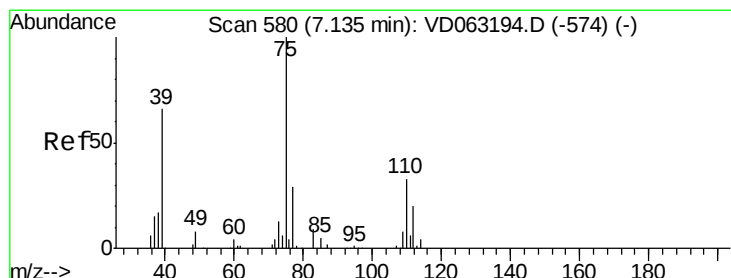
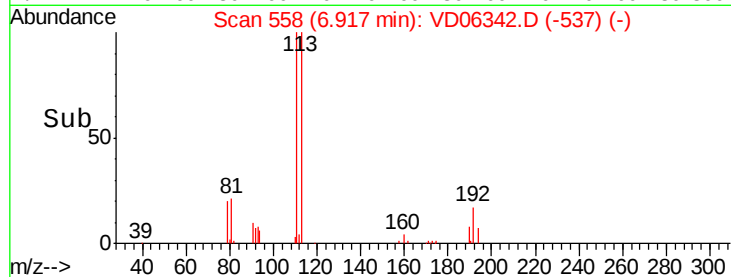
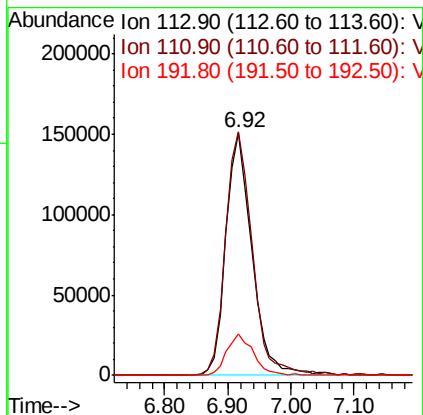
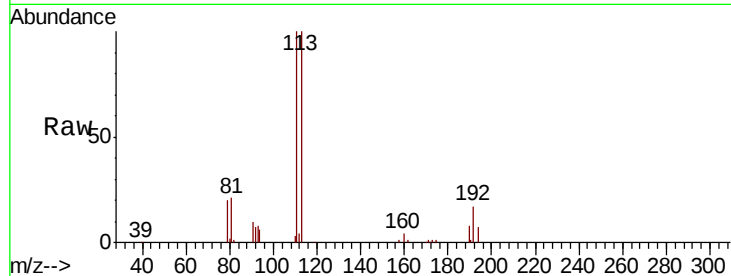




#35
 Dibromofluoromethane
 Concen: 54.599 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD06342.D
 Acq: 3 Aug 2019 4:38

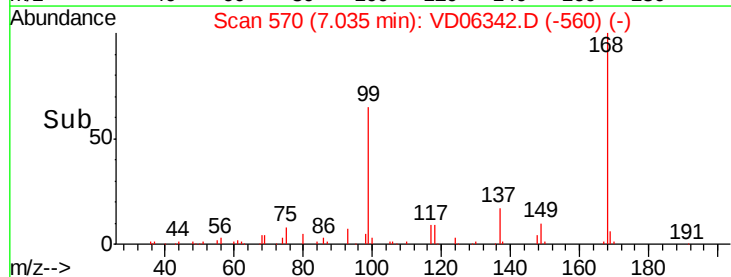
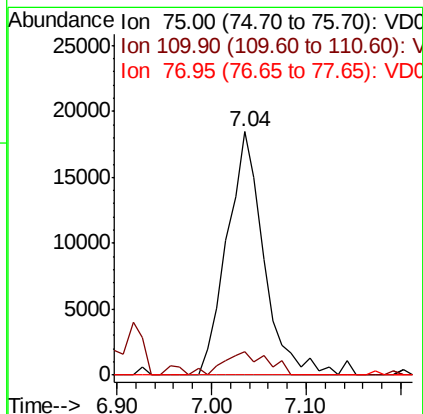
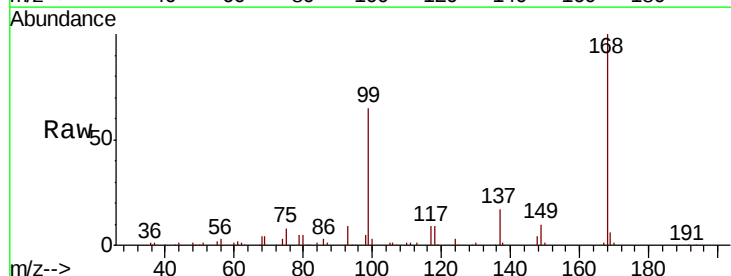
Instrument :
 MSVOA_D
 ClientSampleId :

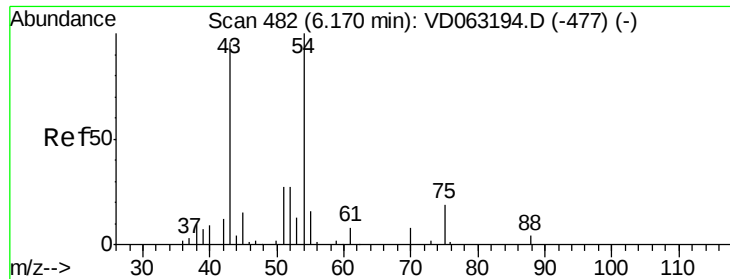
Tgt Ion	Ratio	Resp	Lower	Upper
113	100			
111	100.3	83.2	124.8	
192	17.0	11.8	17.8	



#36
 1,1-Dichloropropene
 Concen: 5.874 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD06342.D
 Acq: 3 Aug 2019 4:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	9.6	16.1	48.2#	
77	0.0	22.7	34.1#	





#37

Ethyl Acetate

Concen: 3.264 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.01 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

Instrument :

MSVOA_D

ClientSampleId :

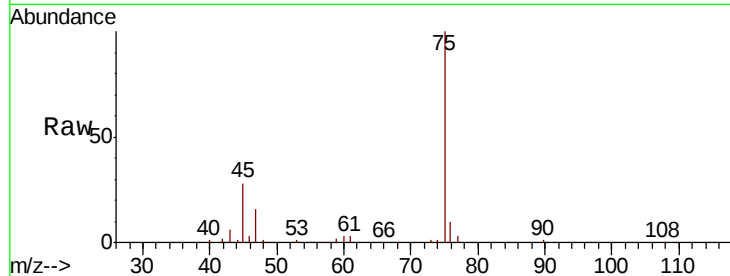
Tgt Ion: 43 Resp: 12403

Ion Ratio Lower Upper

43 100

61 48.5 11.3 16.9#

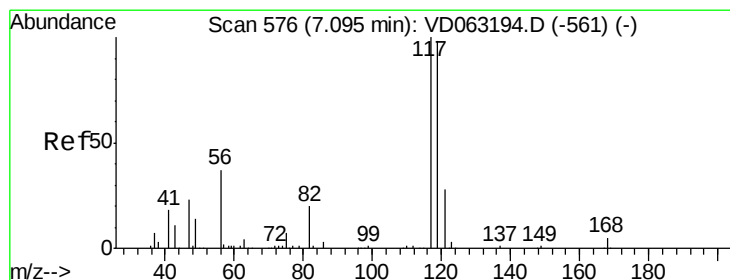
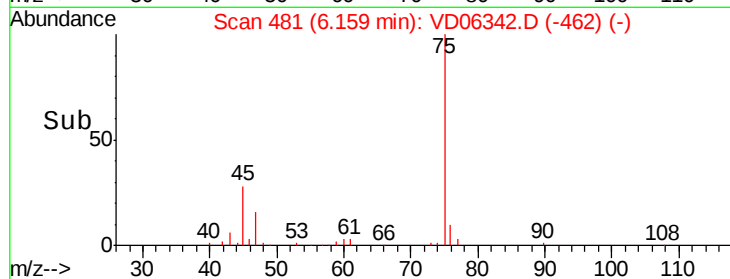
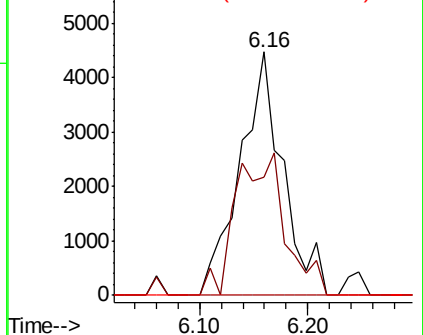
70 0.0 5.1 7.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 5.055 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

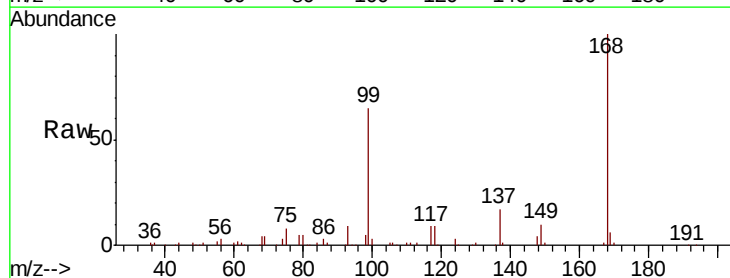
Tgt Ion: 117 Resp: 64363

Ion Ratio Lower Upper

117 100

119 2.5 78.2 117.2#

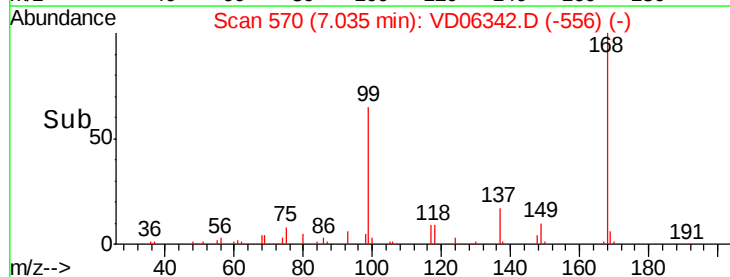
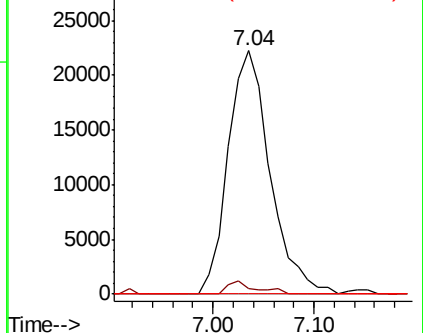
121 0.0 22.1 33.1#

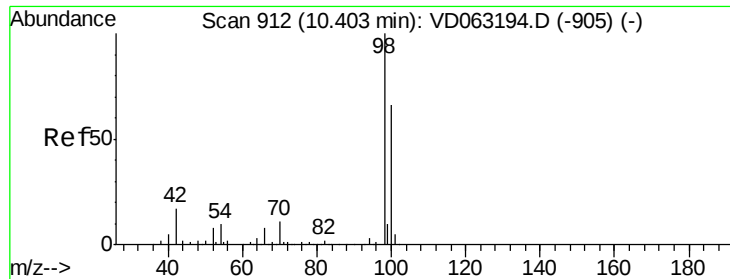


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

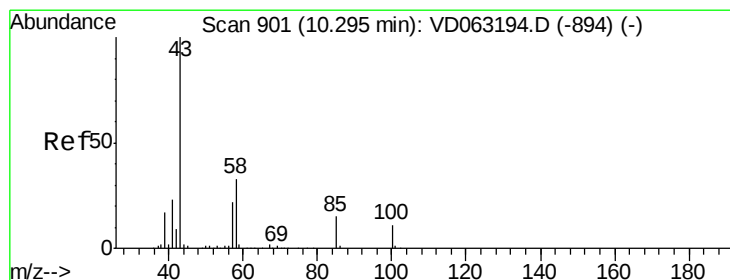
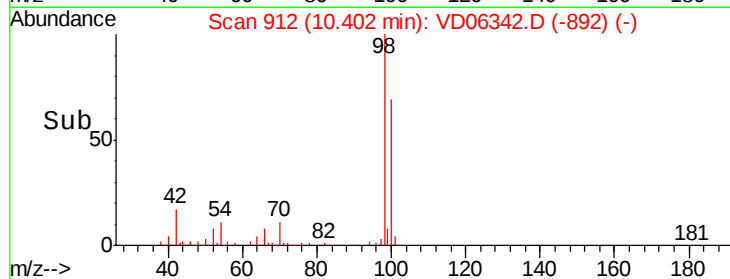
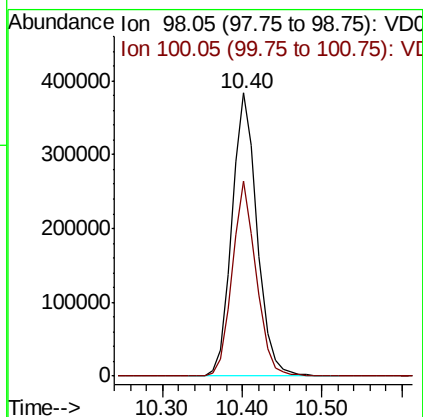
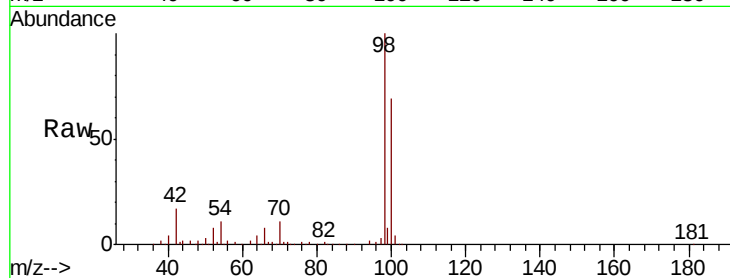




#50
Toluene-d8
Concen: 47.785 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.00 min
Lab File: VD06342.D
Acq: 3 Aug 2019 4:38

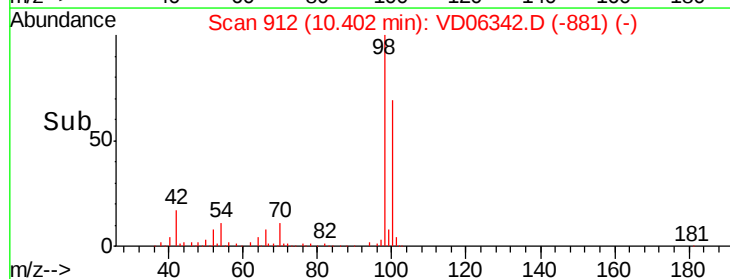
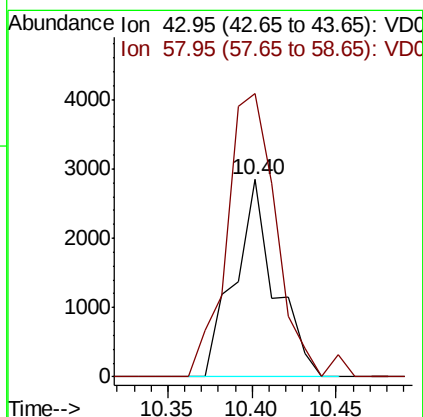
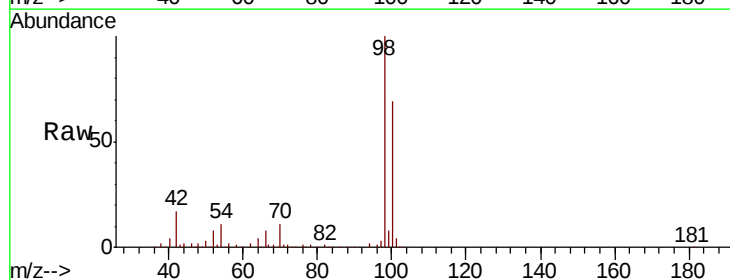
Instrument :
MSVOA_D
ClientSampleId :

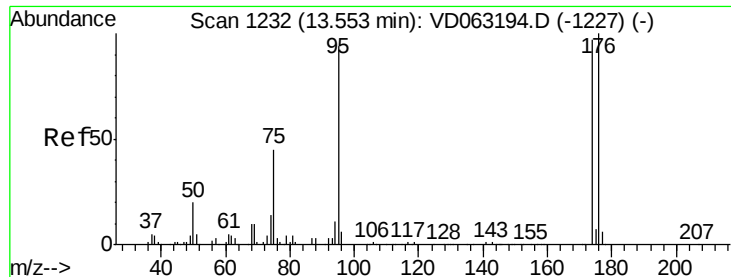
Tgt Ion: 98 Resp: 846173
Ion Ratio Lower Upper
98 100
100 69.0 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 1.438 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.11 min
Lab File: VD06342.D
Acq: 3 Aug 2019 4:38

Tgt Ion: 43 Resp: 4747
Ion Ratio Lower Upper
43 100
58 143.4 26.2 39.2#





#62

4-Bromofluorobenzene

Concen: 42.680 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

Instrument :

MSVOA_D

ClientSampleId :

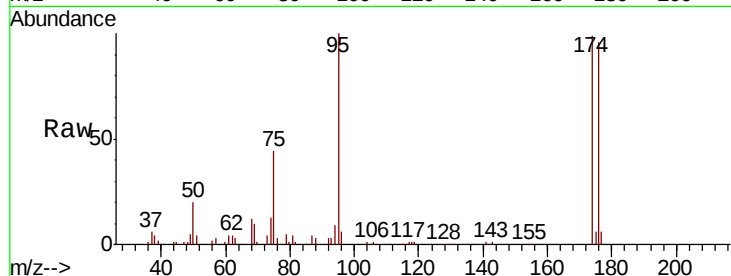
Tgt Ion: 95 Resp: 344409

Ion Ratio Lower Upper

95 100

174 99.2 0.0 205.4

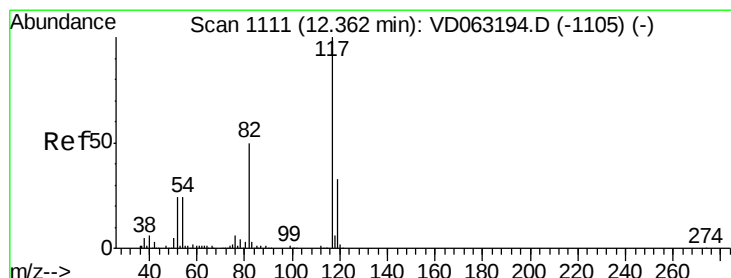
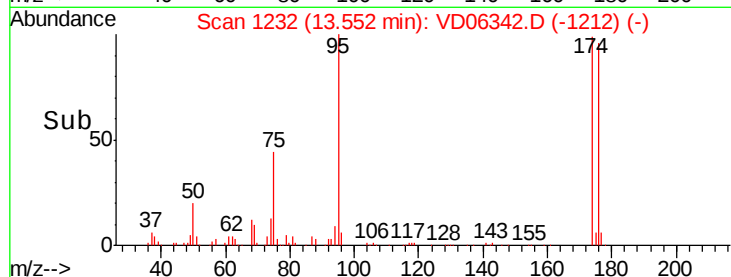
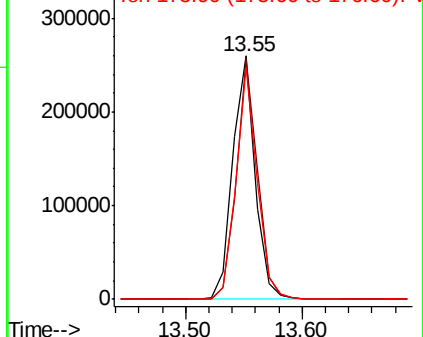
176 95.5 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

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: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

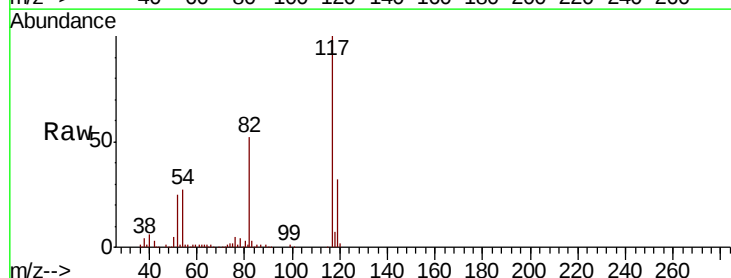
Tgt Ion: 117 Resp: 822993

Ion Ratio Lower Upper

117 100

82 52.1 40.1 60.1

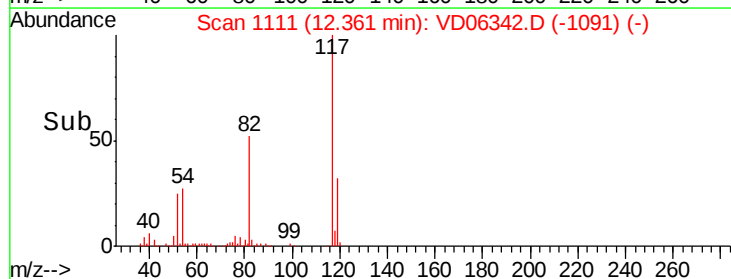
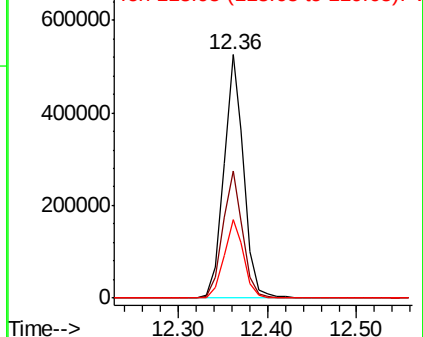
119 32.1 26.5 39.7

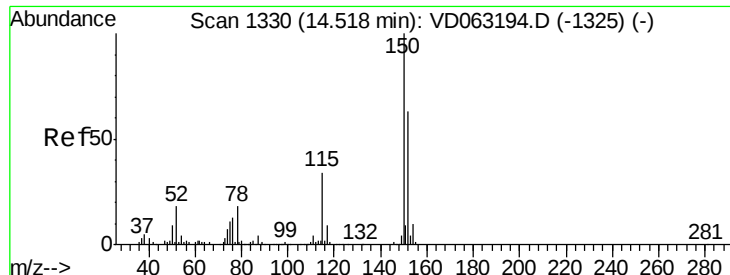


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

Instrument :

MSVOA_D

ClientSampleId :

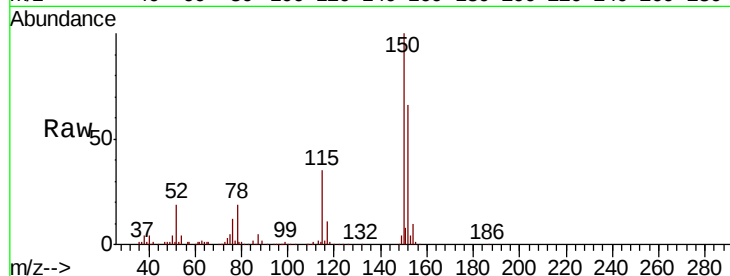
Tgt Ion: 152 Resp: 378826

Ion Ratio Lower Upper

152 100

115 53.3 27.5 82.4

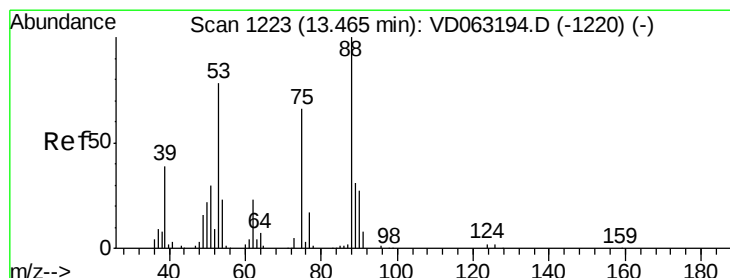
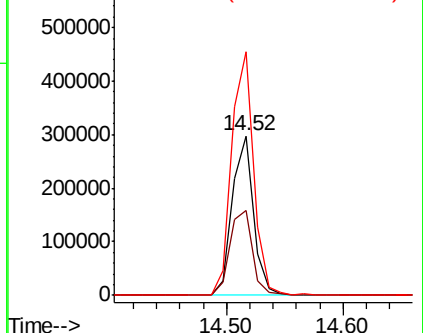
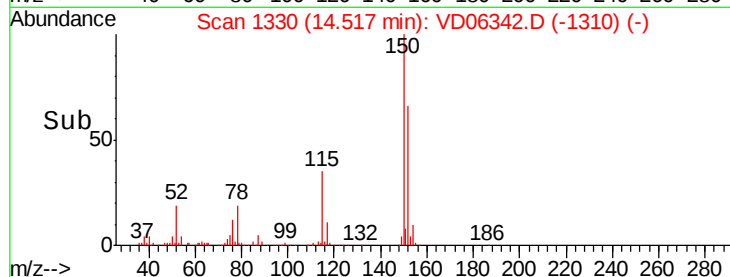
150 152.4 0.0 320.6



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: 126.570 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD06342.D

Acq: 3 Aug 2019 4:38

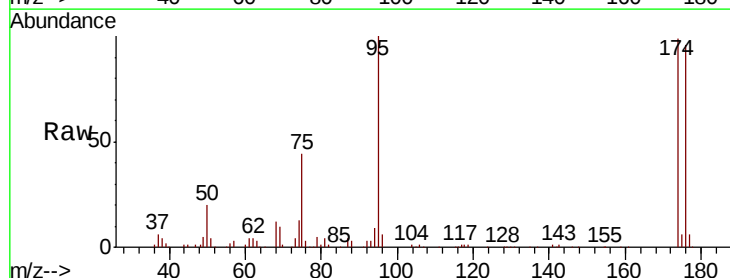
Tgt Ion: 75 Resp: 159921

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



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

