

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101019\
 Data File : VD063919.D
 Acq On : 10 Oct 2019 19:28
 Operator : VA/SY
 Sample : K5297-12
 Misc : 6.18G/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 11 07:41:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	166302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	291478	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	284537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	134548	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	93329	57.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.28%	
35) Dibromofluoromethane	7.91	113	91071	51.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.26%	
50) Toluene-d8	10.34	98	381160	52.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.44%	
62) 4-Bromofluorobenzene	12.63	95	113407	45.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.28%	

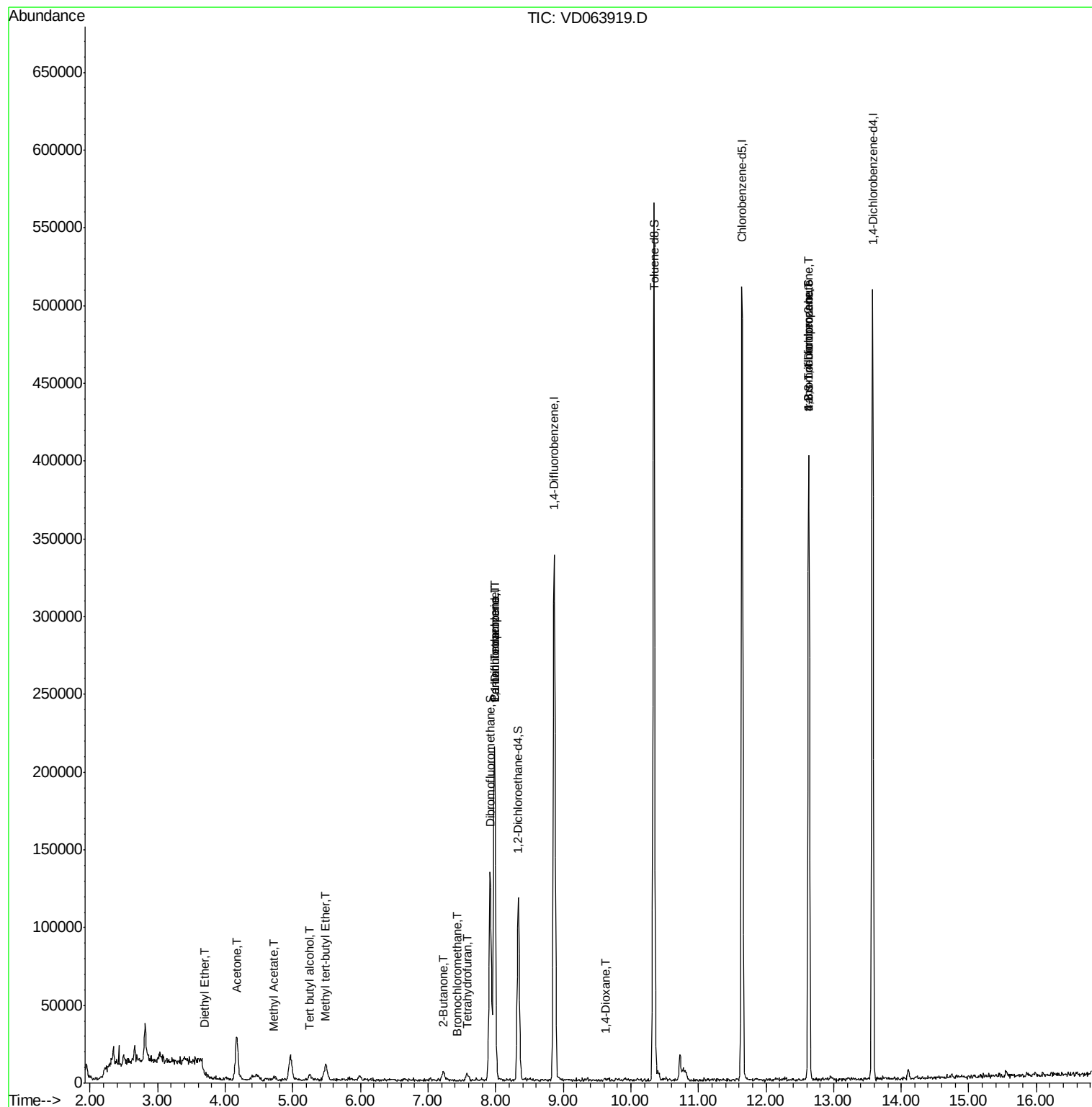
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	961	Below Cal		97
8) Diethyl Ether	3.70	74	864	1.068	ug/l	65
11) Tert butyl alcohol	5.24	59	4447	32.560	ug/l #	82
16) Acetone	4.16	43	48235	114.427	ug/l	89
18) Methyl Acetate	4.72	43	3343	4.055	ug/l #	86
19) Methyl tert-butyl Ether	5.47	73	14708	4.075	ug/l #	90
25) 2-Butanone	7.22	43	6135	12.281	ug/l	97
28) Bromochloromethane	7.43	49	56	1.913	ug/l #	74
29) Tetrahydrofuran	7.58	42	3631	12.453	ug/l #	79
31) Cyclohexane	8.00	56	4111	Below Cal	#	41
36) 1,1-Dichloropropene	7.98	75	12455	4.673	ug/l #	50
37) Ethyl Acetate	7.33	43	273	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	16179	6.007	ug/l #	22
49) 1,4-Dioxane	9.63	88	58	3.991	ug/l #	24
76) 1,2,3-Trichloropropane	12.63	75	62512	69.368	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	62512	122.753	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.53	75	71	Below Cal	#	1

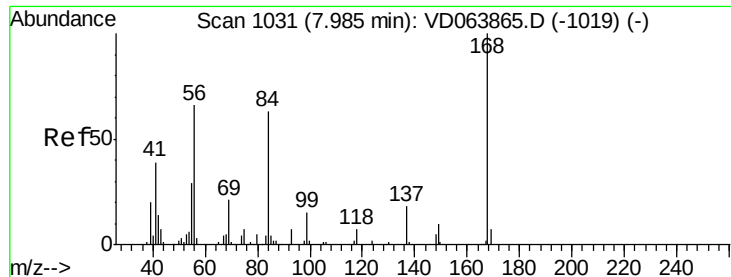
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 05 03:51:17 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: VD063919.D

Acq: 10 Oct 2019 19:28

Instrument :

MSVOA_D

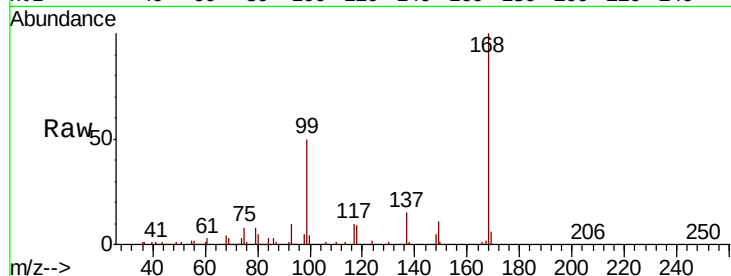
ClientSampleId :

Tot Ion:168 Resp: 166302

Ion Ratio Lower Upper

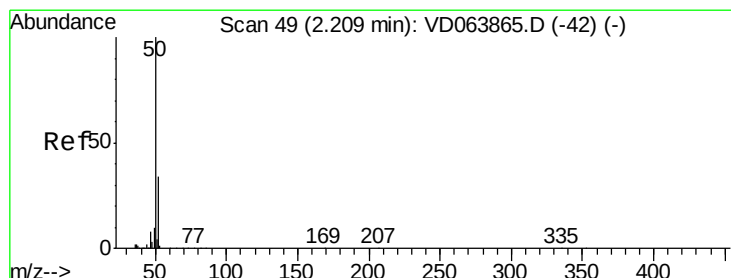
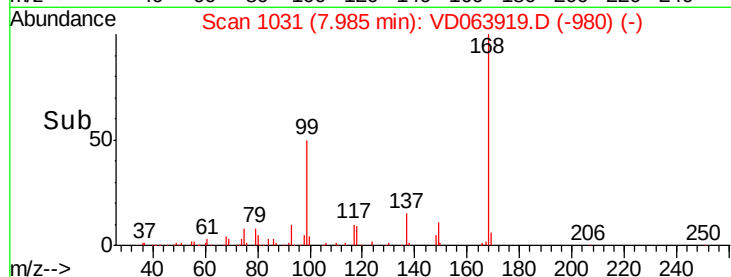
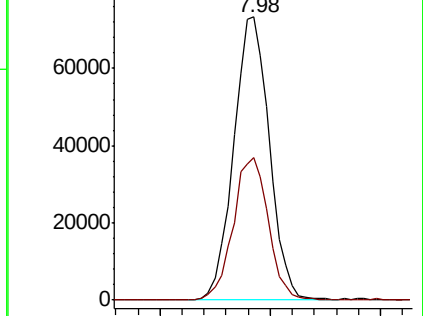
168 100

99 50.3 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD063919.D

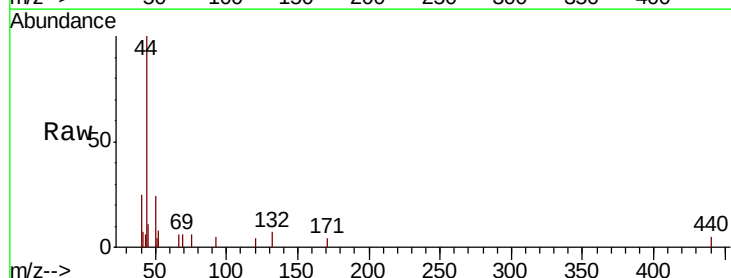
Acq: 10 Oct 2019 19:28

Tgt Ion: 50 Resp: 961

Ion Ratio Lower Upper

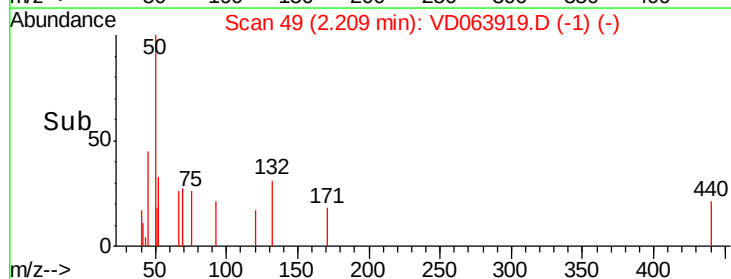
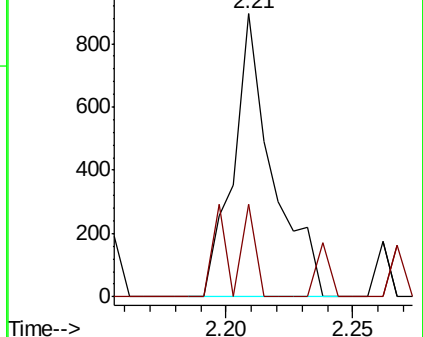
50 100

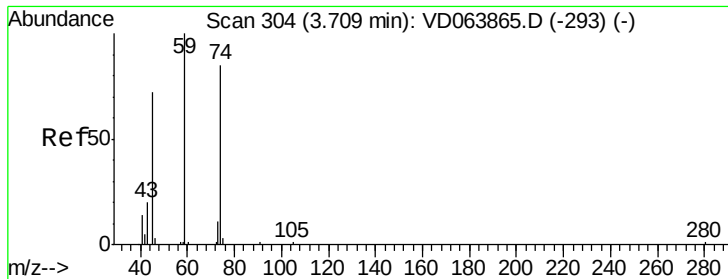
52 32.7 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#8

Diethyl Ether

Concen: 1.068 ug/l

RT: 3.70 min Scan# 302

Delta R.T. -0.01 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

Instrument :

MSVOA_D

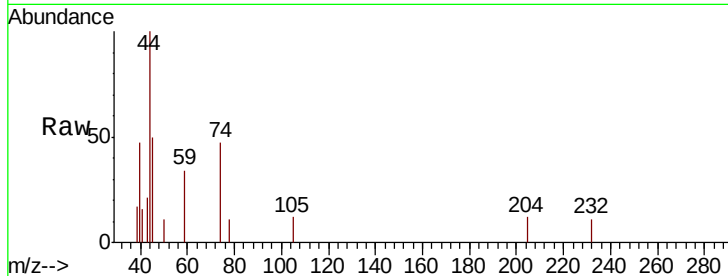
ClientSampleId :

Tot Ion: 74 Resp: 864

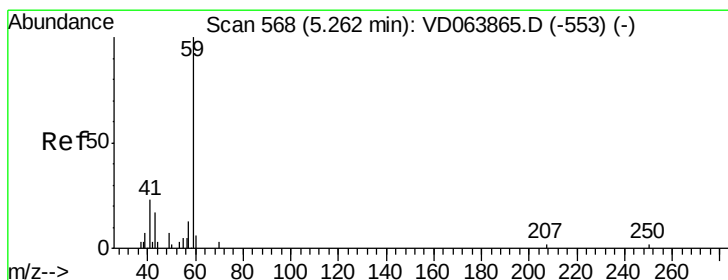
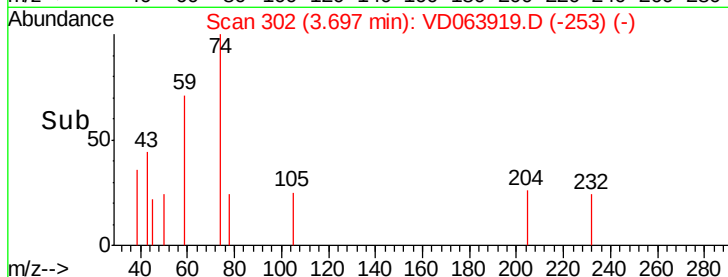
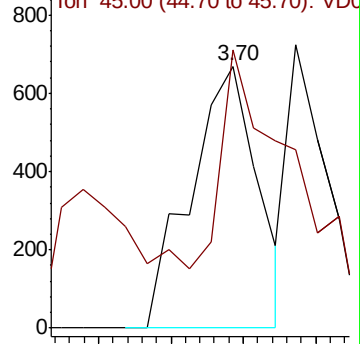
Ion Ratio Lower Upper

74 100

45 130.9 48.1 144.4



Abundance Ion 74.00 (73.70 to 74.70): VDC



#11

Tert butyl alcohol

Concen: 32.560 ug/l

RT: 5.24 min Scan# 565

Delta R.T. -0.02 min

Lab File: VD063919.D

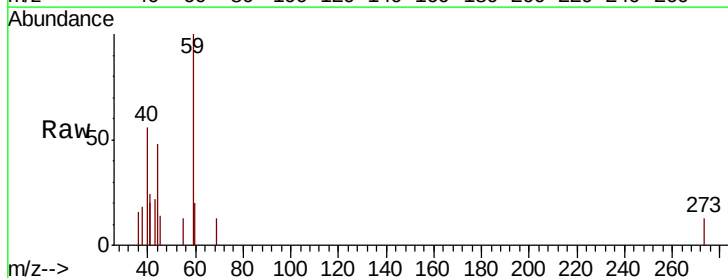
Acq: 10 Oct 2019 19:28

Tgt Ion: 59 Resp: 4447

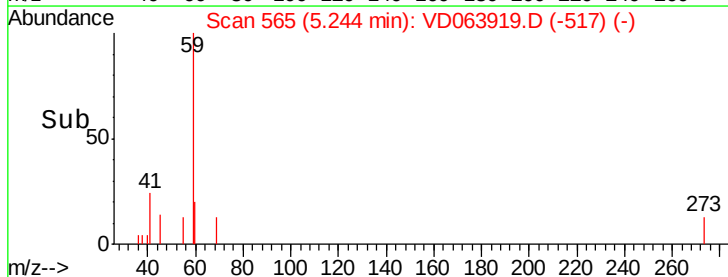
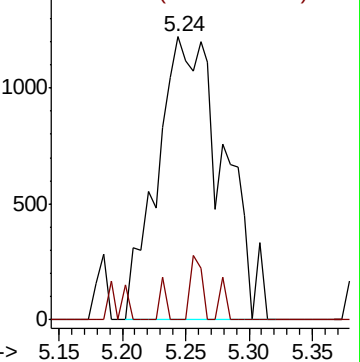
Ion Ratio Lower Upper

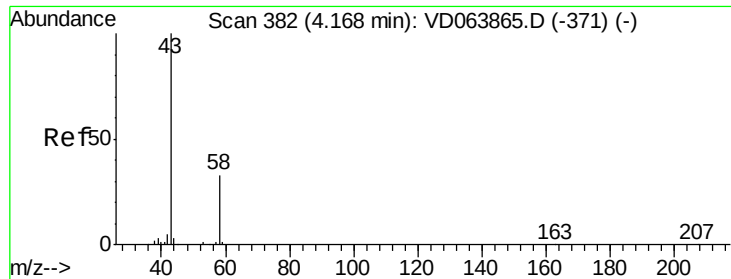
59 100

57 4.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC





#16

Acetone

Concen: 114.427 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

Instrument :

MSVOA_D

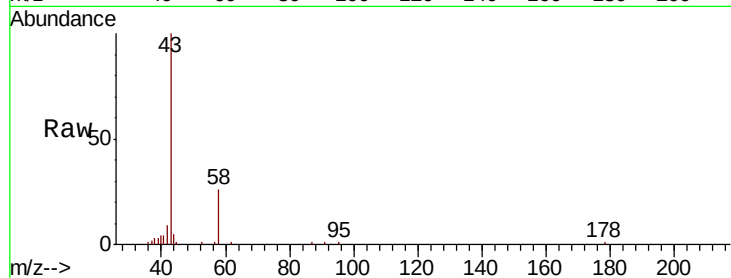
ClientSampleId :

Tot Ion: 43 Resp: 48235

Ion Ratio Lower Upper

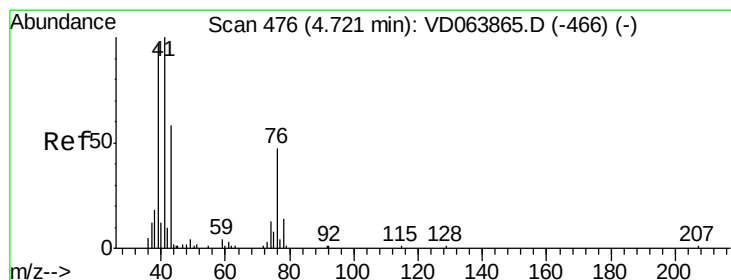
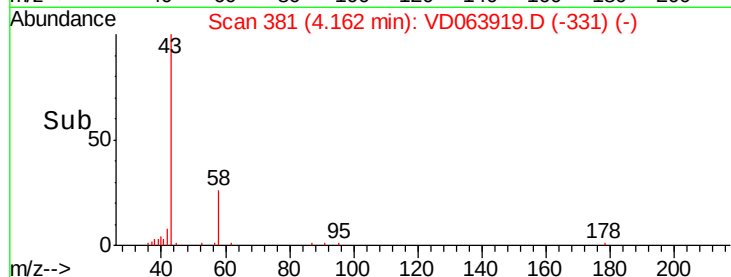
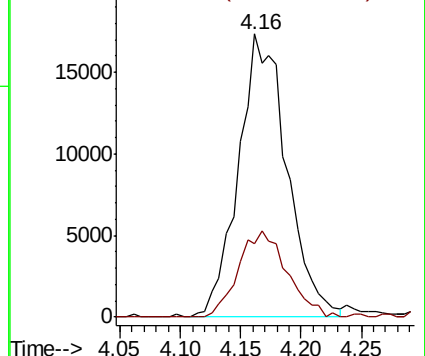
43 100

58 26.9 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 4.055 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.00 min

Lab File: VD063919.D

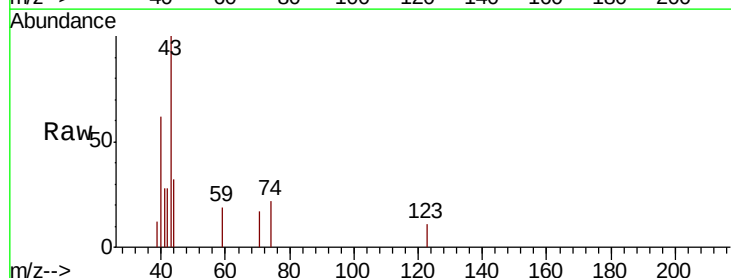
Acq: 10 Oct 2019 19:28

Tgt Ion: 43 Resp: 3343

Ion Ratio Lower Upper

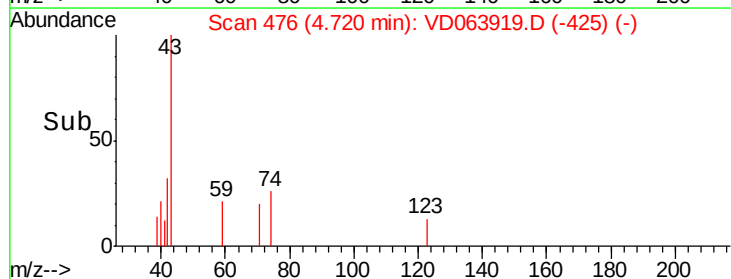
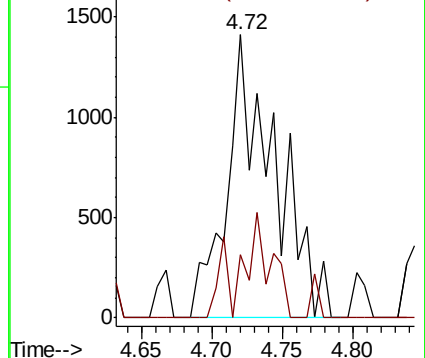
43 100

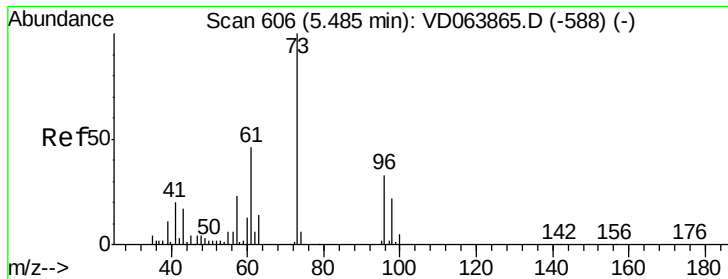
74 18.9 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

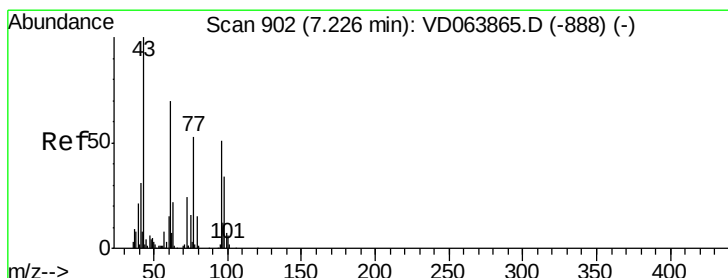
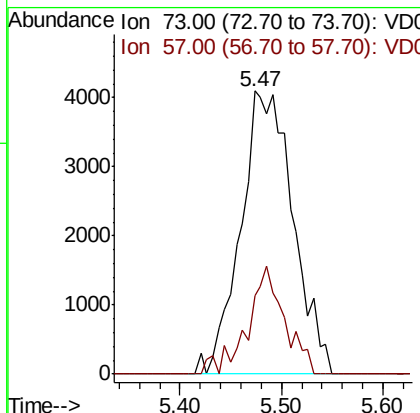
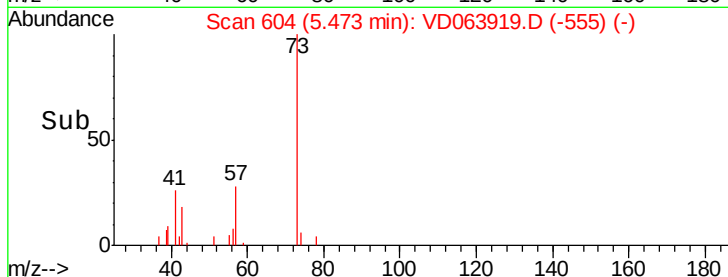
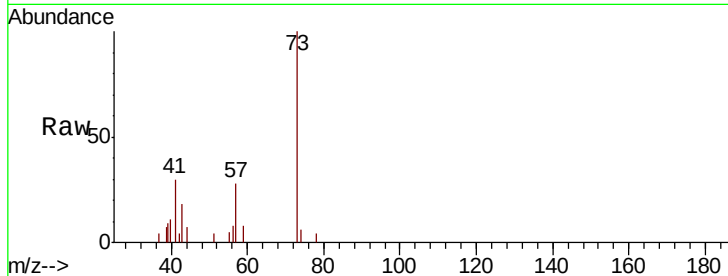




#19
Methvl tert-butyl Ether
Concen: 4.075 ug/l
RT: 5.47 min Scan# 604
Delta R.T. -0.01 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

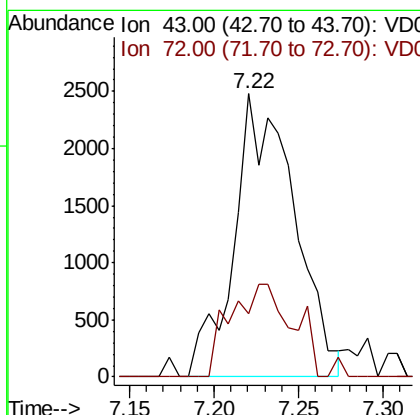
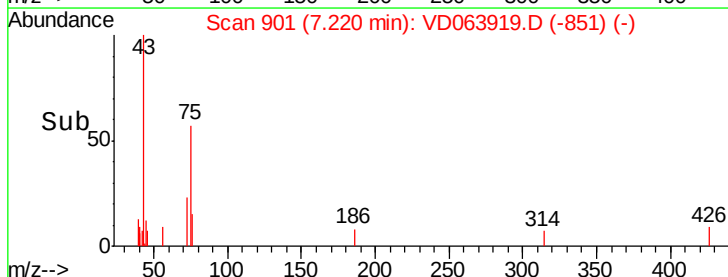
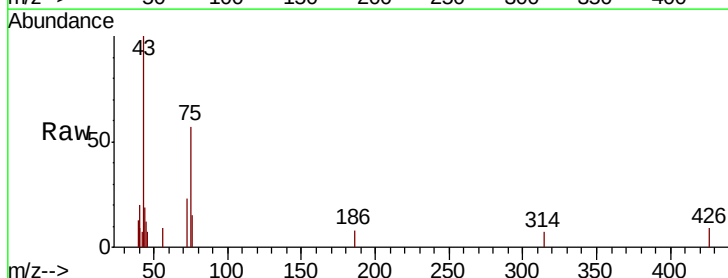
Instrument :
MSVOA_D
ClientSampled :

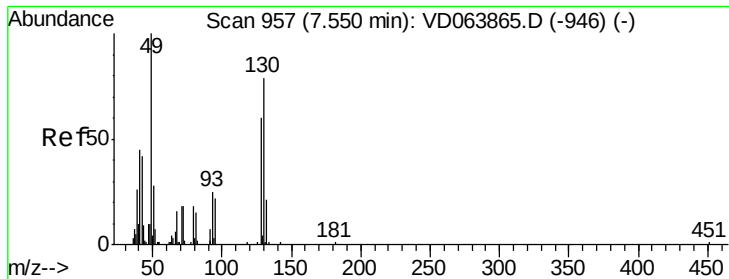
Tot Ion: 73 Resp: 14708
Ion Ratio Lower Upper
73 100
57 27.6 18.1 27.1#



#25
2-Butanone
Concen: 12.281 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

Tgt Ion: 43 Resp: 6135
Ion Ratio Lower Upper
43 100
72 22.5 19.2 28.8

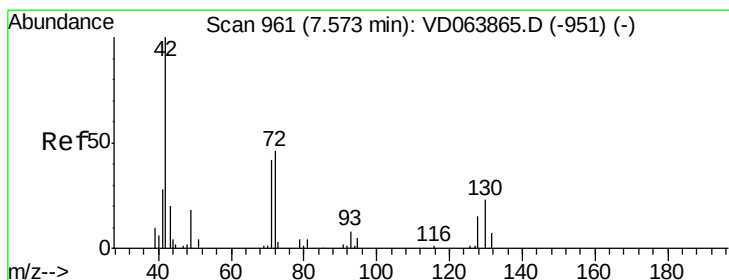
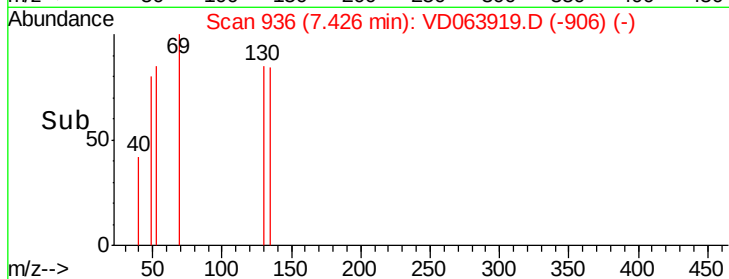
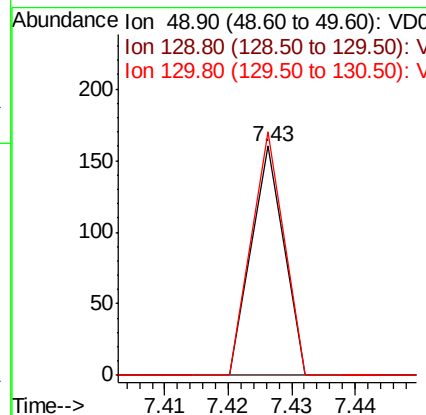
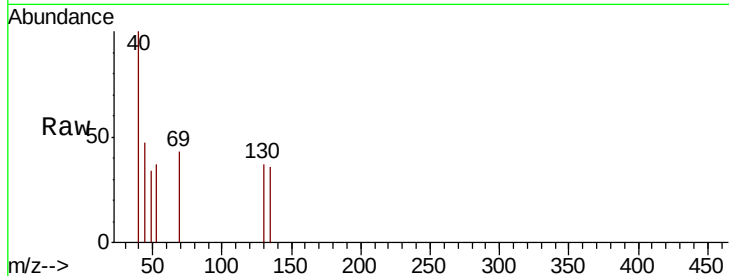




#28
Bromochloromethane
Concen: 1.913 ug/l
RT: 7.43 min Scan# 936
Delta R.T. -0.12 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

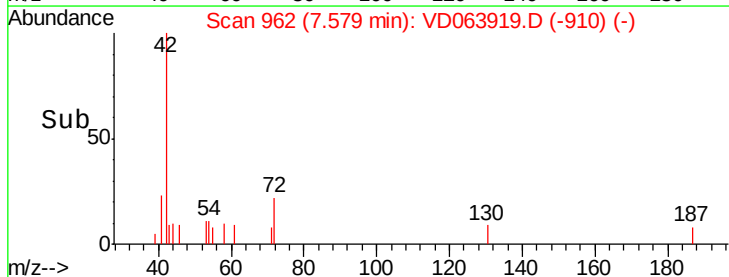
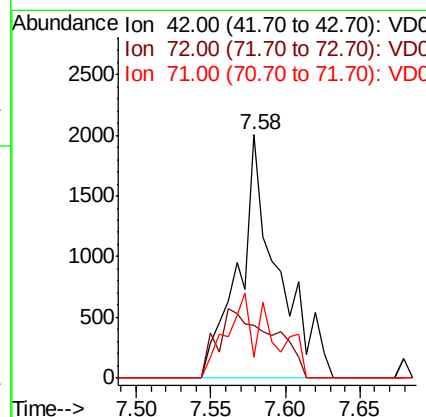
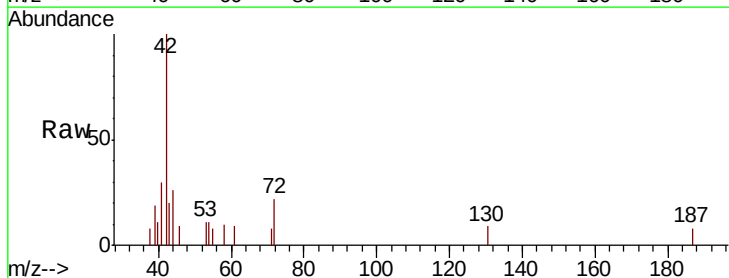
Instrument :
MSVOA_D
ClientSampleId :

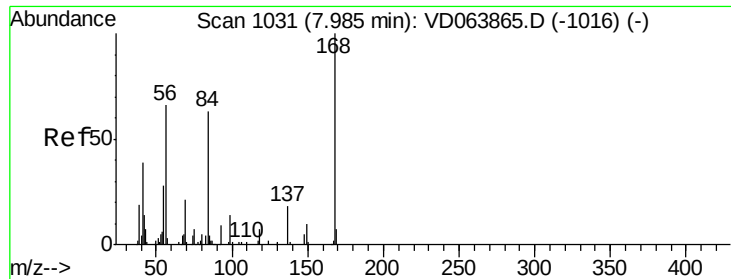
Tot Ion: 49 Resp: 56
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.6
130 107.1 66.8 100.2#



#29
Tetrahydrofuran
Concen: 12.453 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

Tgt Ion: 42 Resp: 3631
Ion Ratio Lower Upper
42 100
72 40.4 37.6 56.4
71 21.9 35.0 52.6#

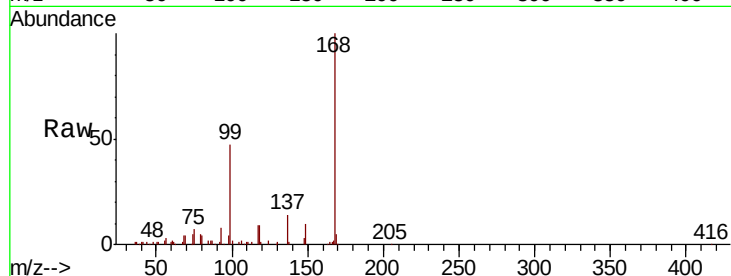




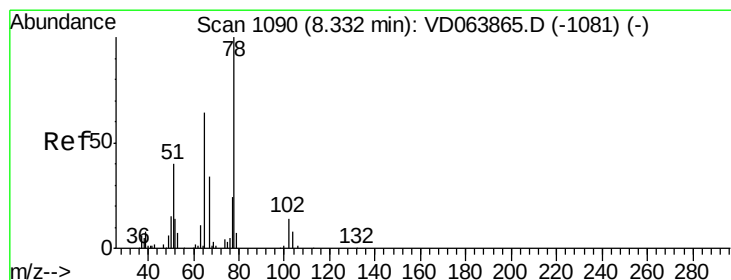
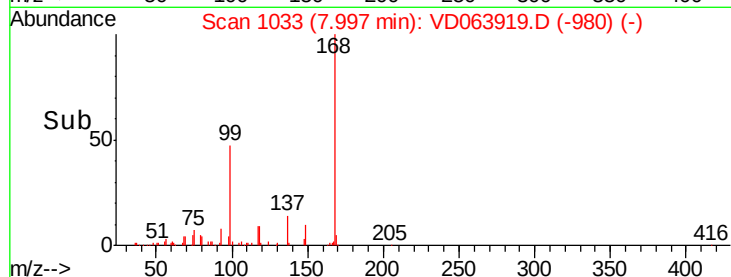
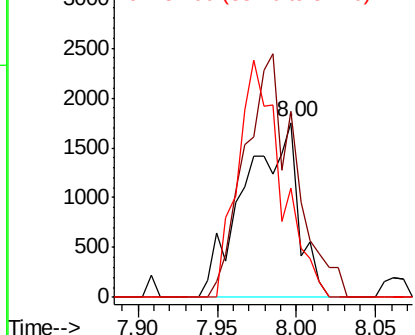
#31
Cyclohexane
Concen: Below Cal
RT: 8.00 min Scan# 1033
Delta R.T. 0.01 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 4111
Ion Ratio Lower Upper
56 100
69 106.3 25.0 37.4#
84 62.3 76.3 114.5#

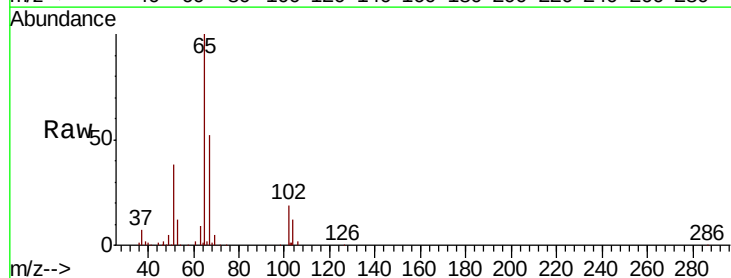


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

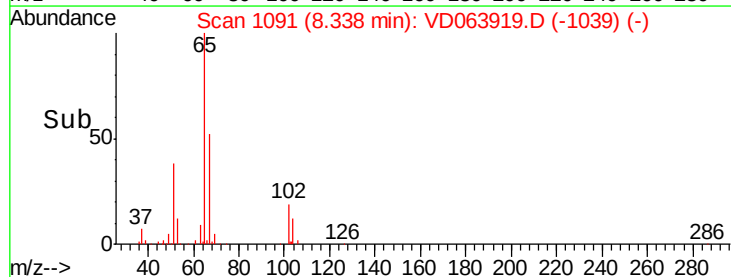
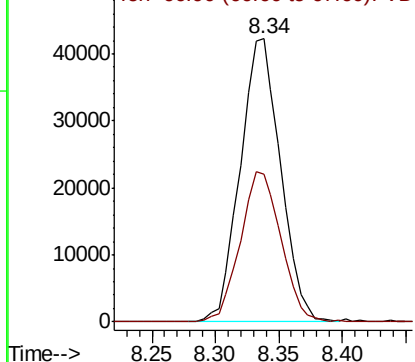


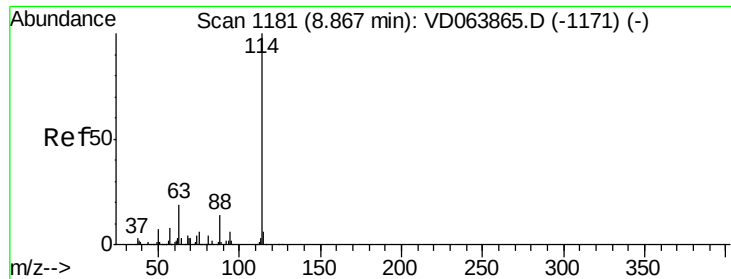
#33
1,2-Dichloroethane-d4
Concen: 57.643 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

Tgt Ion: 65 Resp: 93329
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.4



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

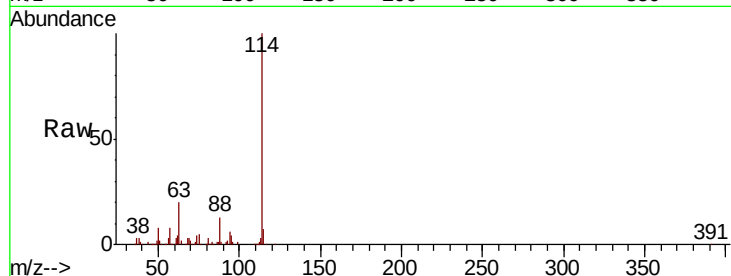




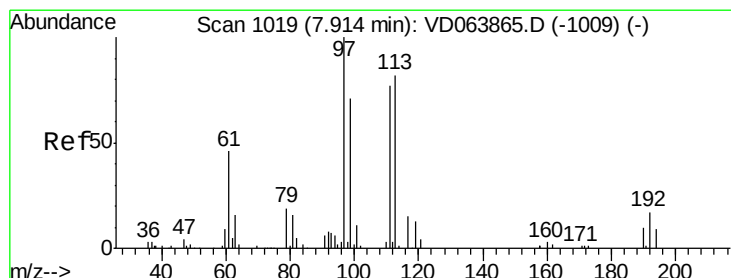
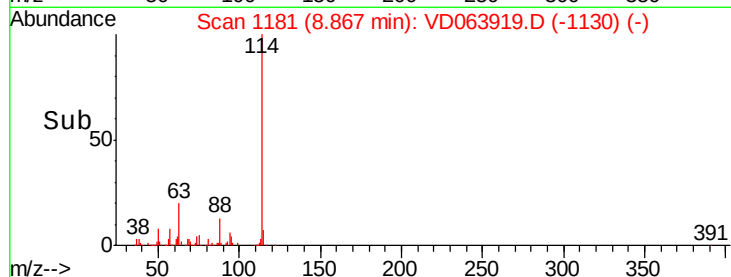
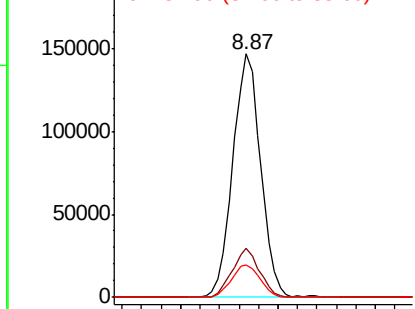
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD063919.D
 Acq: 10 Oct 2019 19:28

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	38.4
88	13.3	0.0	27.4

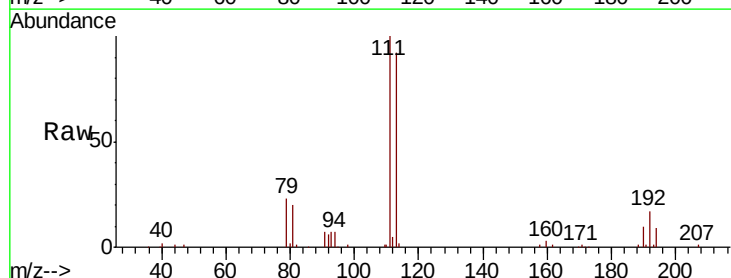


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

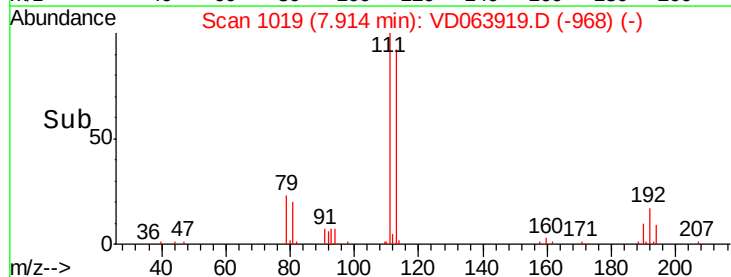
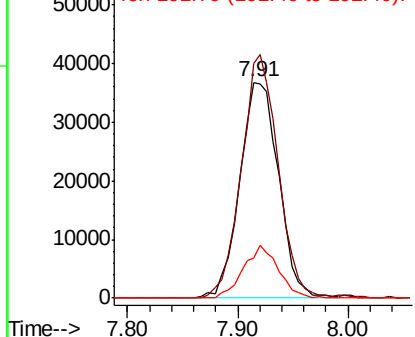


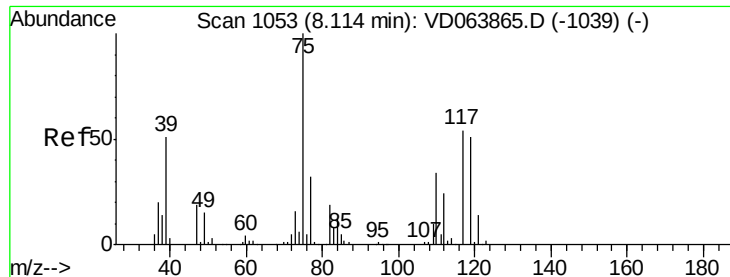
#35
 Dibromofluoromethane
 Concen: 51.126 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD063919.D
 Acq: 10 Oct 2019 19:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	106.0	82.6	123.8
192	21.8	17.1	25.7



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: 4.673 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

Instrument :

MSVOA_D

ClientSampled :

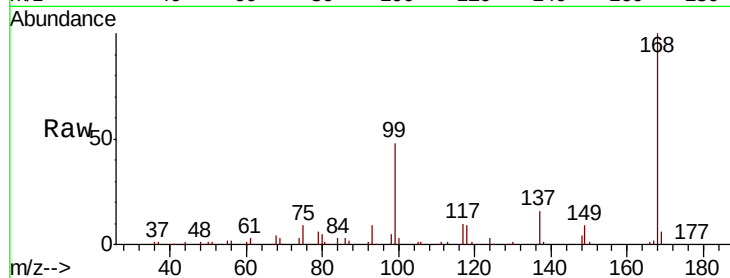
Tot Ion: 75 Resp: 12455

Ion Ratio Lower Upper

75 100

110 10.1 17.4 52.3#

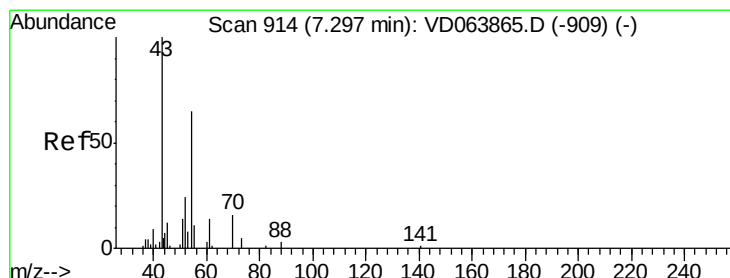
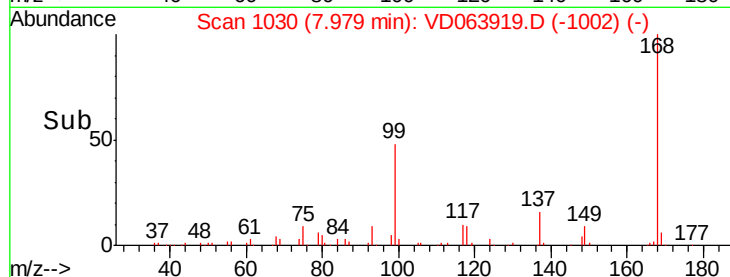
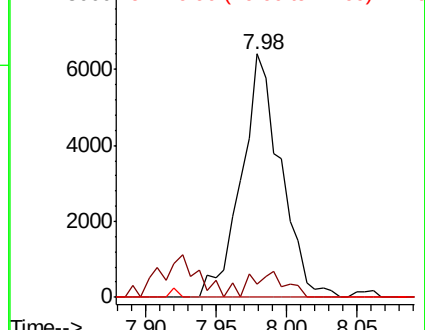
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: Below Cal

RT: 7.33 min Scan# 920

Delta R.T. 0.04 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

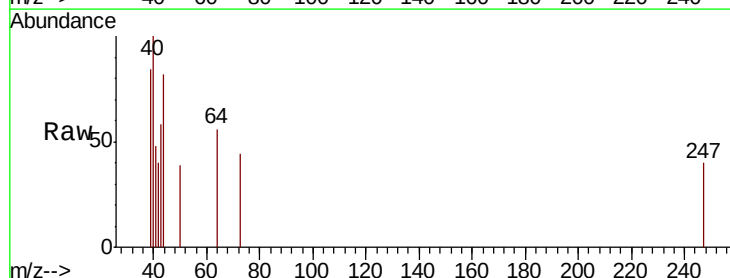
Tgt Ion: 43 Resp: 273

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

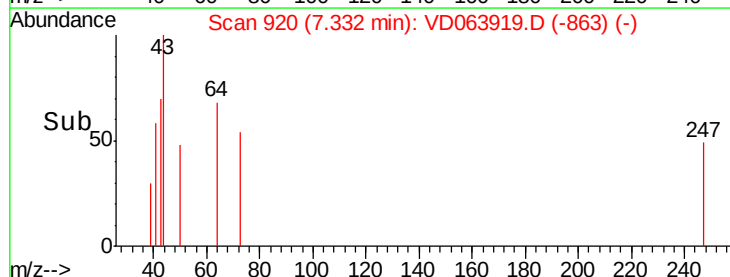
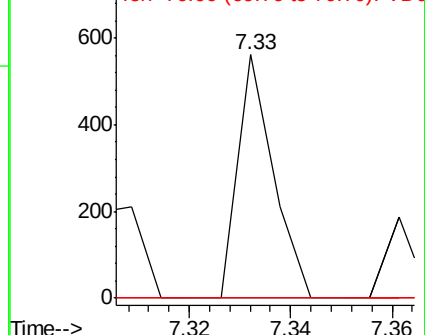
70 0.0 8.2 12.4#

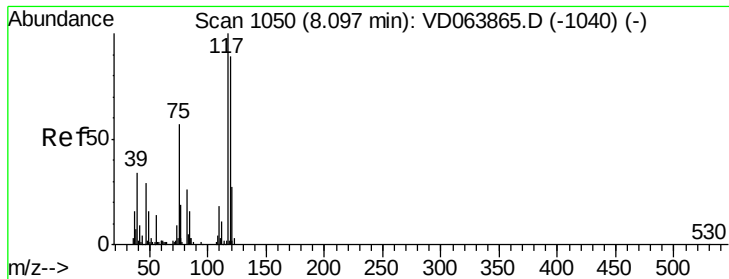


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.007 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

Instrument :

MSVOA_D

ClientSampleId :

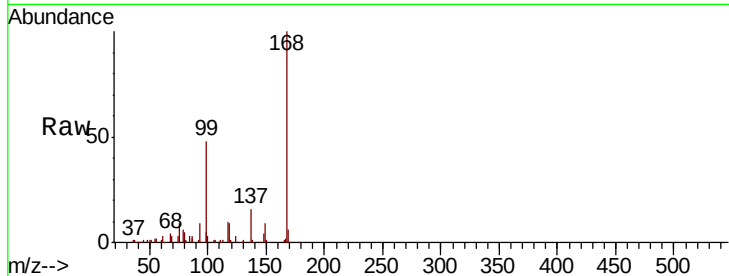
Tot Ion:117 Resp: 16179

Ion Ratio Lower Upper

117 100

119 8.8 70.8 106.2#

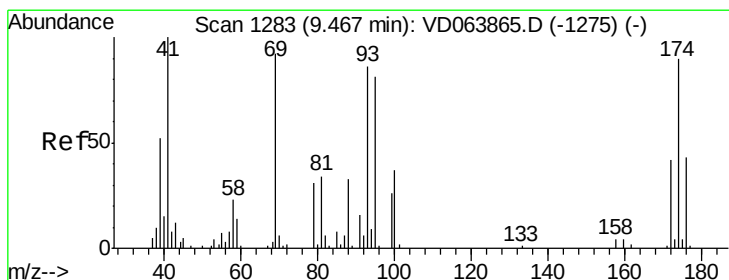
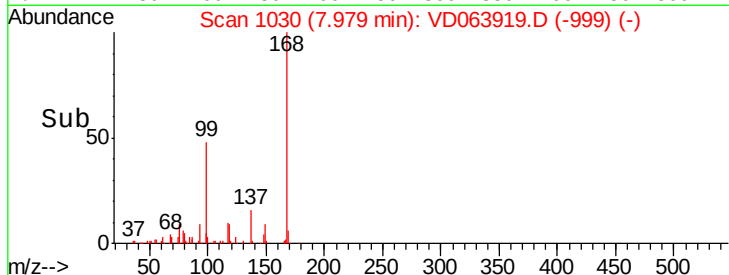
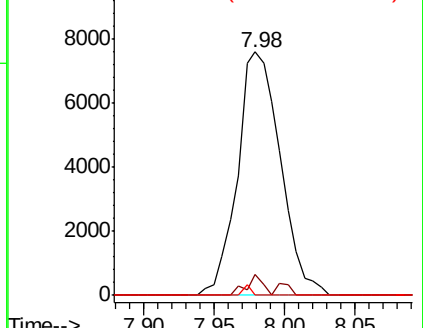
121 0.0 21.4 32.0#



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



#49

1,4-Dioxane

Concen: 3.991 ug/l

RT: 9.63 min Scan# 1311

Delta R.T. 0.16 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

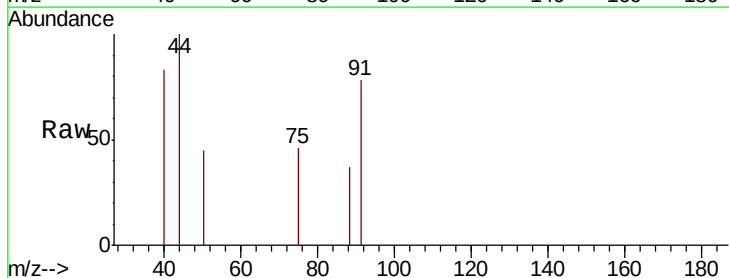
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 0.0 27.6 41.4#

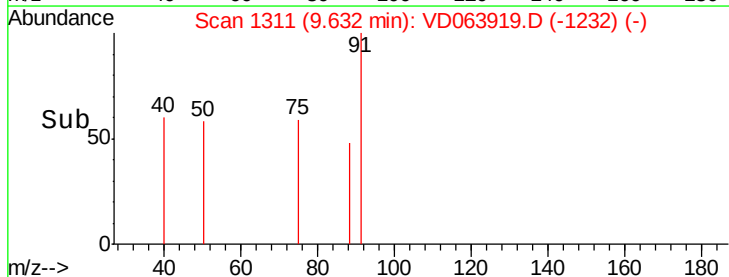
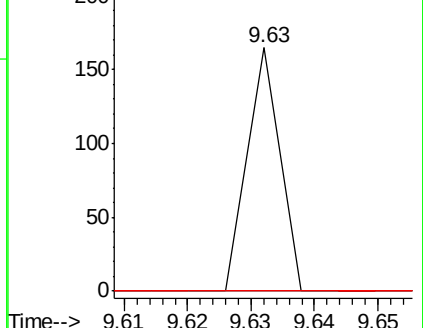
58 0.0 54.1 81.1#

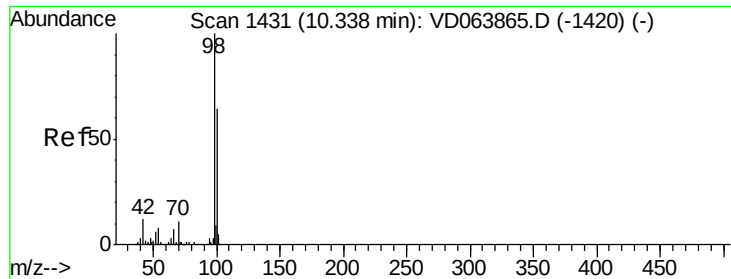


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

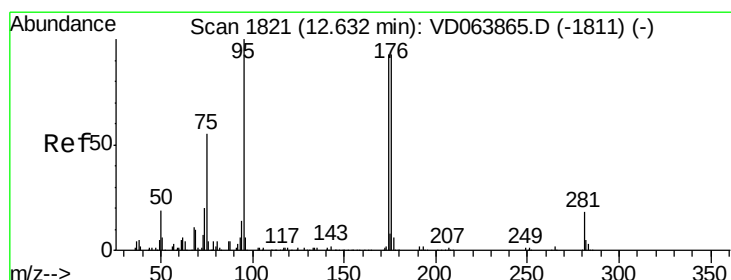
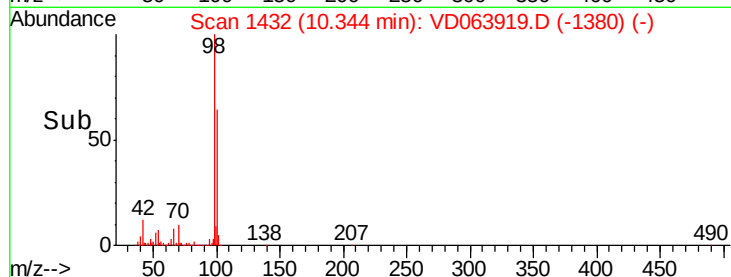
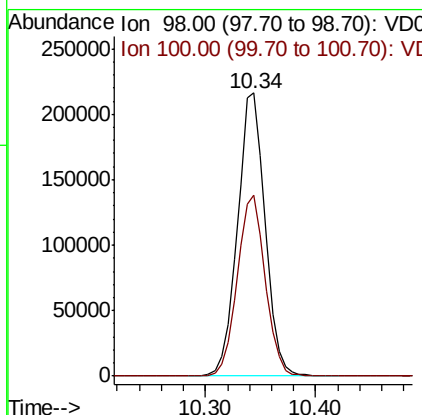
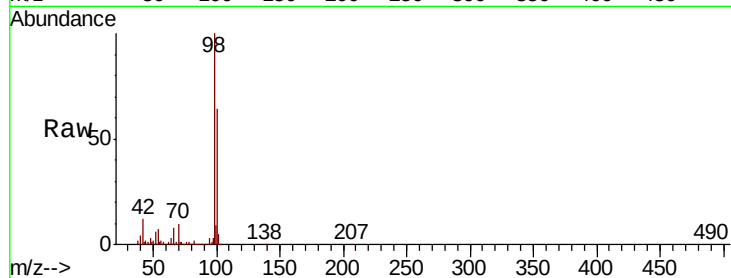




#50
Toluene-d8
Concen: 52.719 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

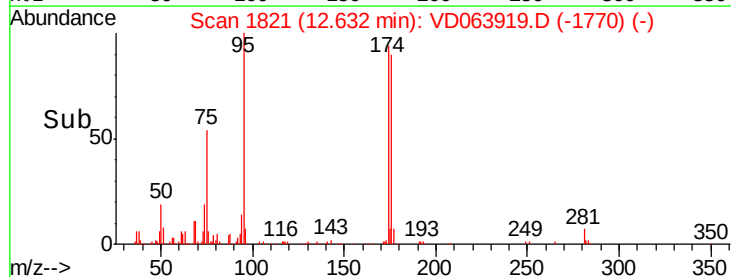
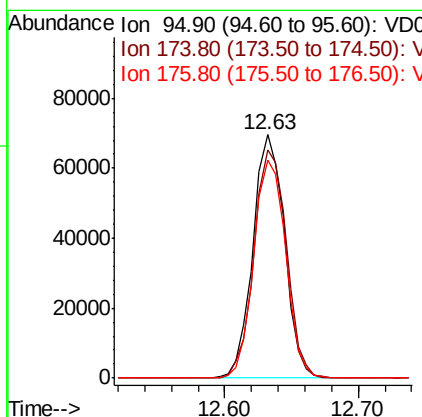
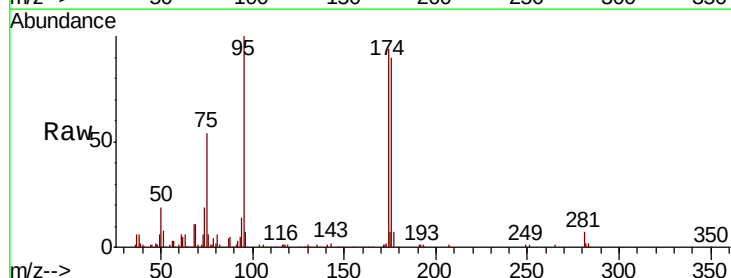
Instrument :
MSVOA_D
ClientSampleId :

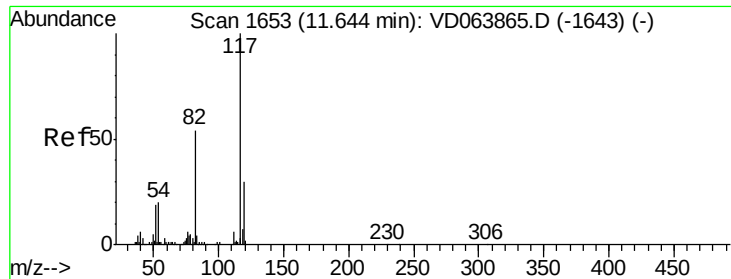
Tot Ion: 98 Resp: 381160
Ion Ratio Lower Upper
98 100
100 64.4 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 45.138 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

Tgt Ion: 95 Resp: 113407
Ion Ratio Lower Upper
95 100
174 96.8 0.0 186.4
176 90.9 0.0 184.2

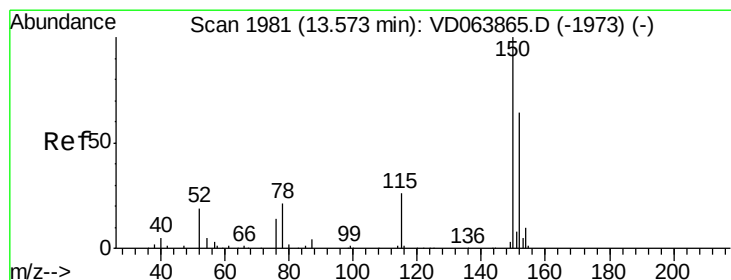
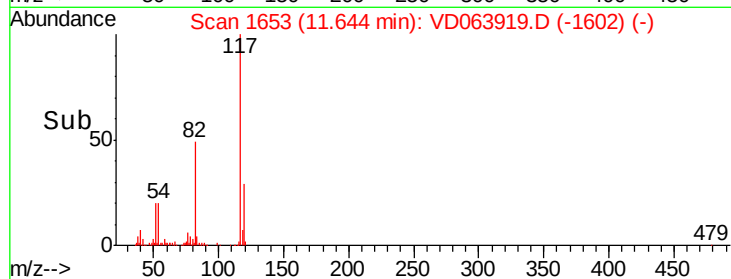
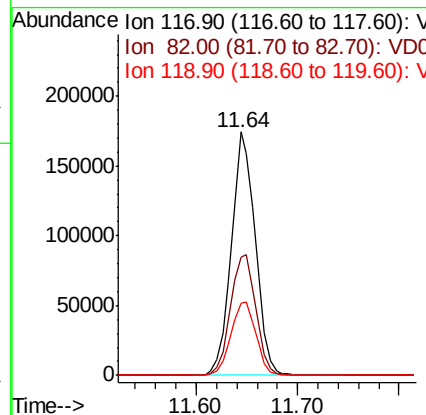
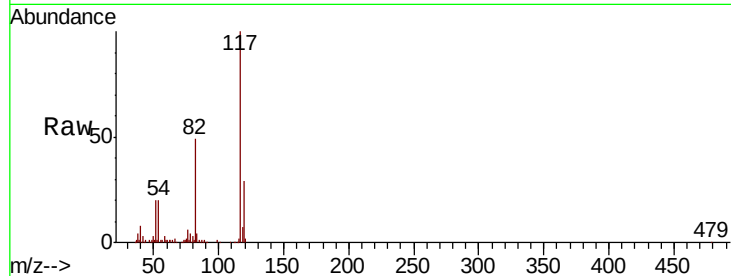




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

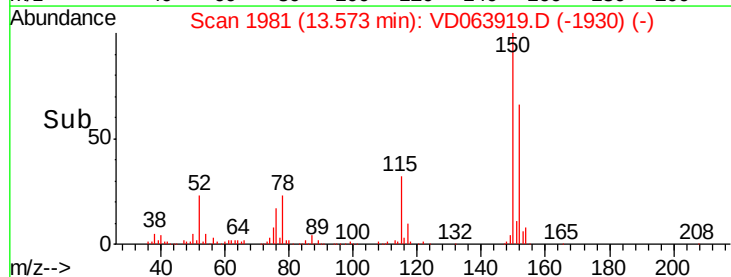
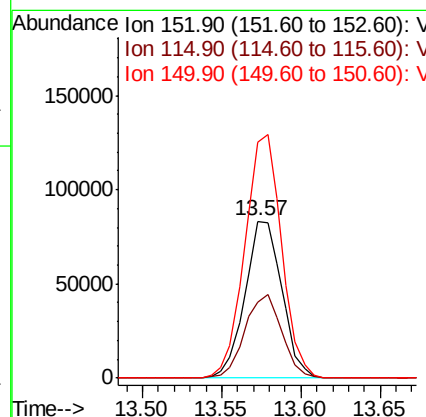
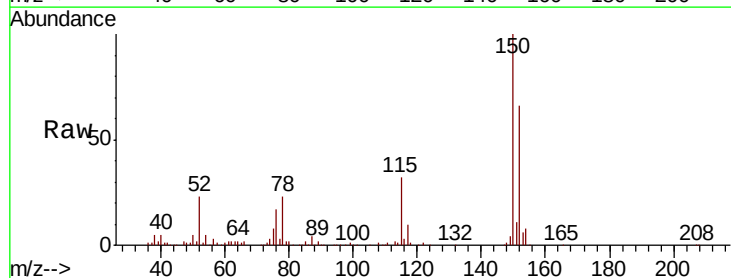
Instrument :
MSVOA_D
ClientSampleId :

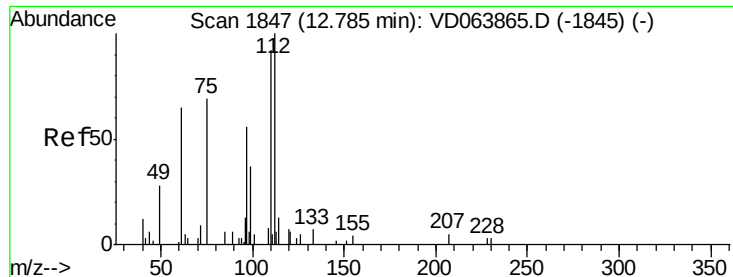
Tot Ion	Ratio	Lower	Upper
117	100		
82	48.6	42.8	64.2
119	29.4	24.4	36.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VD063919.D
Acq: 10 Oct 2019 19:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.2	25.9	77.7
150	154.3	0.0	344.2





#76

1,2,3-Trichloropropane

Concen: 69.368 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

Instrument :

MSVOA_D

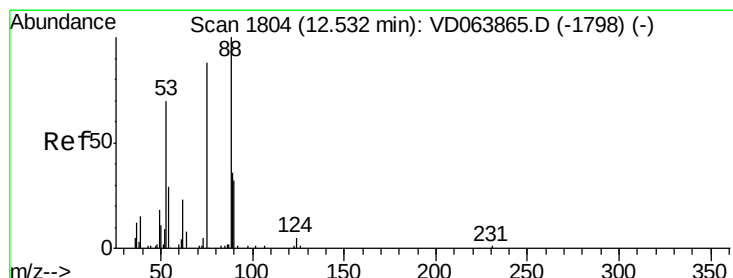
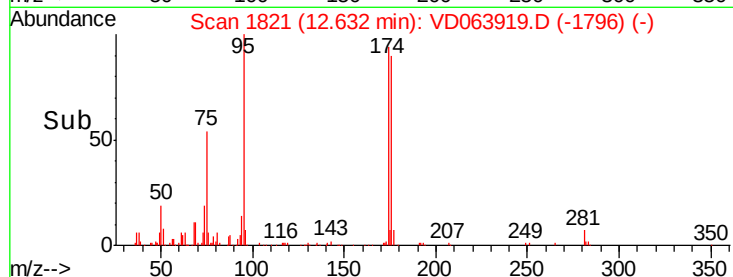
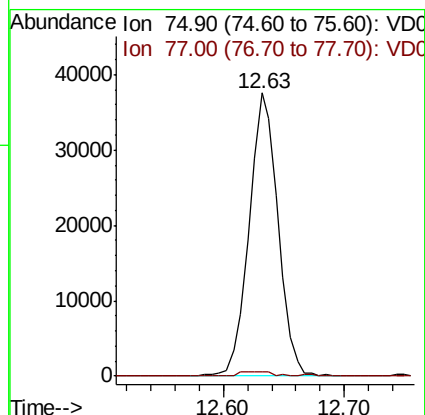
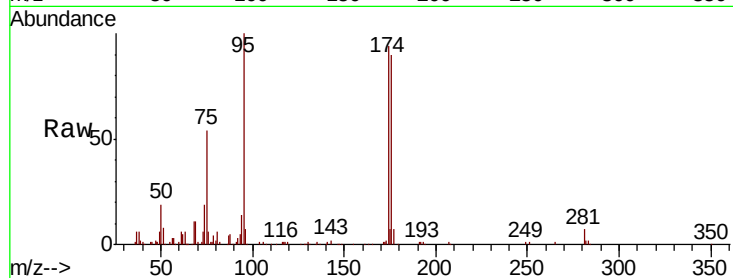
ClientSampleId :

Tot Ion: 75 Resp: 62512

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 122.753 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

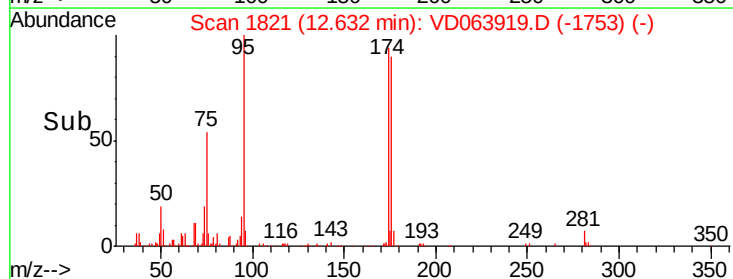
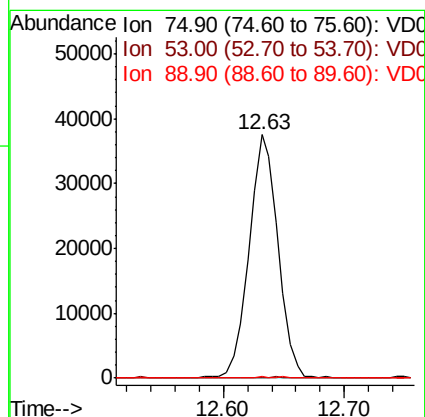
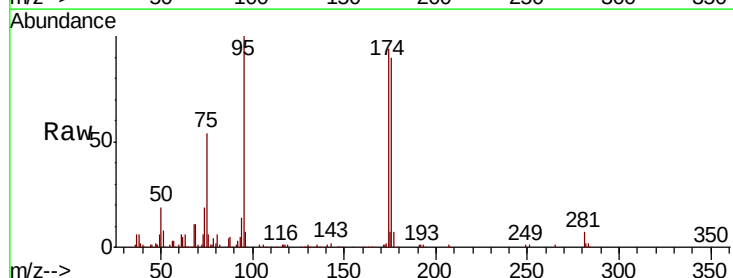
Tgt Ion: 75 Resp: 62512

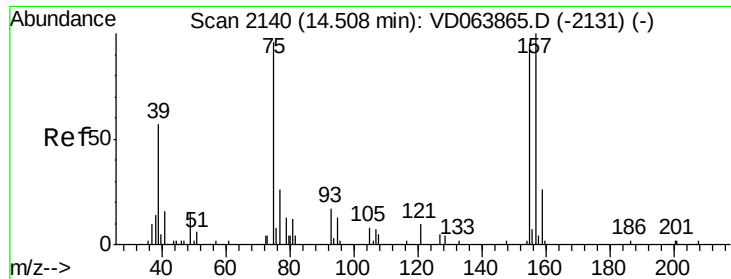
Ion Ratio Lower Upper

75 100

53 0.0 75.0 112.6#

89 0.1 38.2 57.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.53 min Scan# 2144

Delta R.T. 0.02 min

Lab File: VD063919.D

Acq: 10 Oct 2019 19:28

Instrument :

MSVOA_D

ClientSampleId :

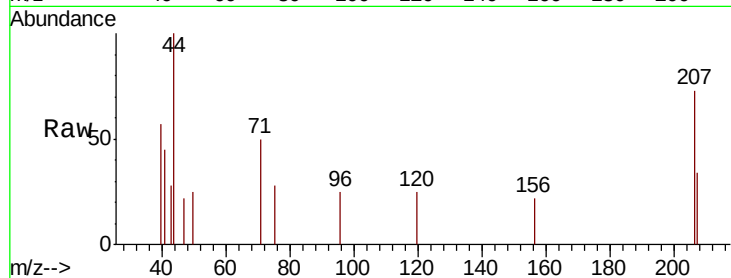
Tot Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

