

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082219\
 Data File : VD063739.D
 Acq On : 22 Aug 2019 17:51
 Operator : JC/SY
 Sample : K4404-03RE
 Misc : 6.41g/5ml/MSVOA_D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T1-L-(0)RE

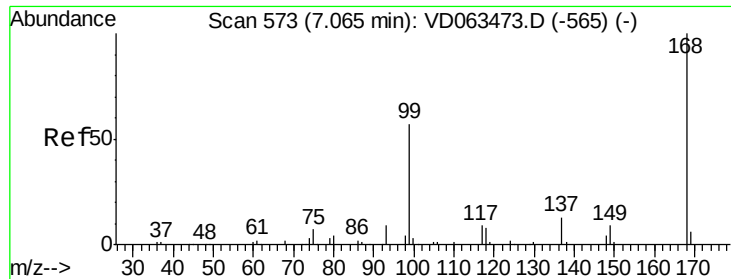
Quant Time: Aug 23 07:00:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	84860	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	133319	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	121961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	63851	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	115678	127.53	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	255.06%	
35) Dibromofluoromethane	6.93	113	89720	79.91	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	159.82%	
50) Toluene-d8	10.41	98	154014	62.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	124.78%	
62) 4-Bromofluorobenzene	13.56	95	81870	73.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	146.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	954	2.539	ug/l #	11
6) Chloroethane	2.22	64	518	1.423	ug/l #	19
8) Diethyl Ether	2.86	74	1325	6.008	ug/l	73
11) Tert butyl alcohol	4.01	59	191	4.837	ug/l #	71
13) Acrolein	3.01	56	412	10.600	ug/l #	18
16) Acetone	3.22	43	44407	240.828	ug/l #	91
20) Methylene Chloride	3.82	84	12848	16.114	ug/l #	79
25) 2-Butanone	6.09	43	635	3.487	ug/l #	58
29) Tetrahydrofuran	6.48	42	2424	28.565	ug/l #	70
31) Cyclohexane	7.05	56	2216	2.706	ug/l #	64
38) Carbon Tetrachloride	7.05	117	8953	5.040	ug/l #	13
49) 1,4-Dioxane	9.09	88	183	69.295	ug/l #	34
51) 4-Methyl-2-Pentanone	10.42	43	924	2.042	ug/l #	40
81) trans-1,4-Dichloro-2-buten	13.56	75	35415	179.811	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

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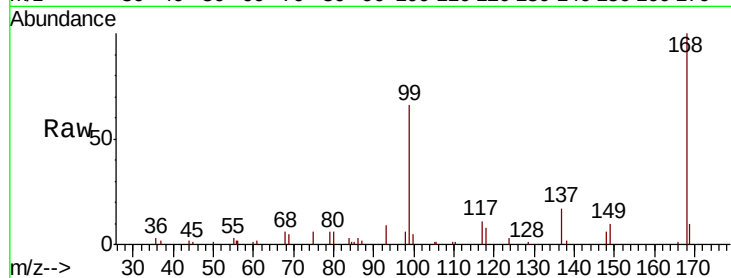
T1-L-(0)RE

Tgt Ion:168 Resp: 84860

Ion Ratio Lower Upper

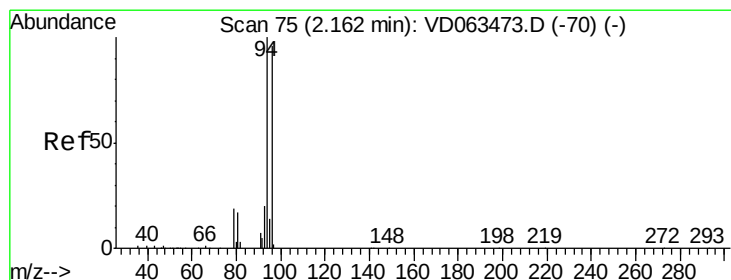
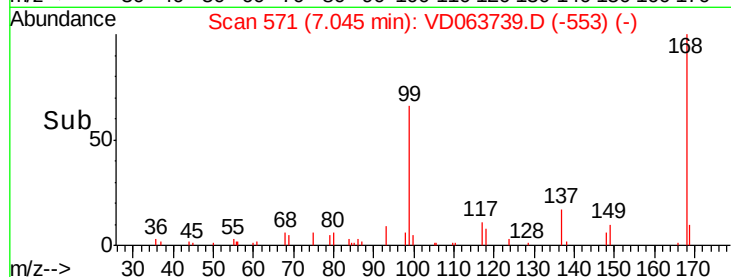
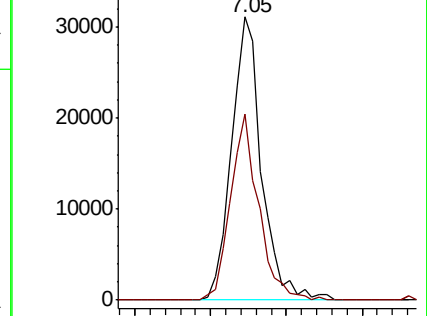
168 100

99 65.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 2.539 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.00 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

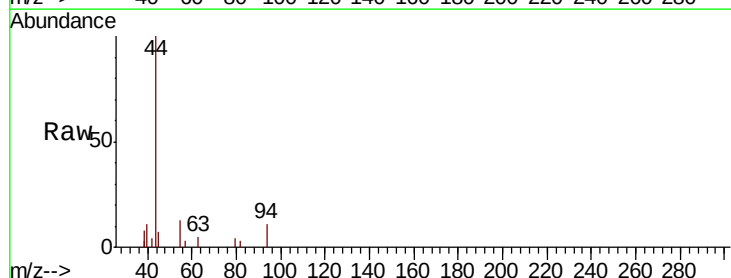
Tgt Ion: 94 Resp: 954

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

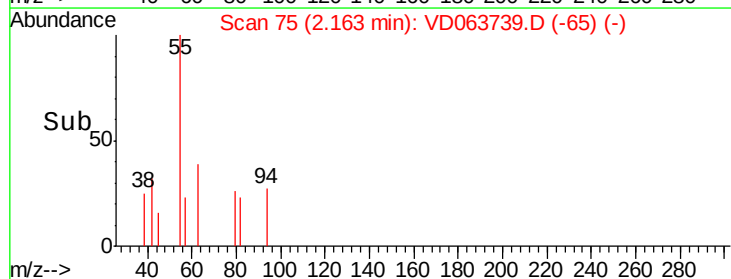
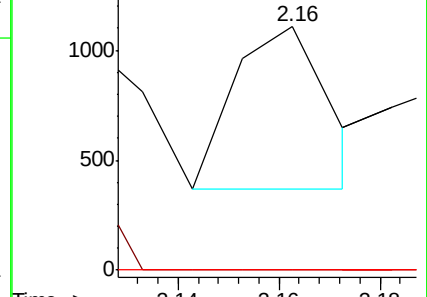
93 0.0 15.8 23.8#

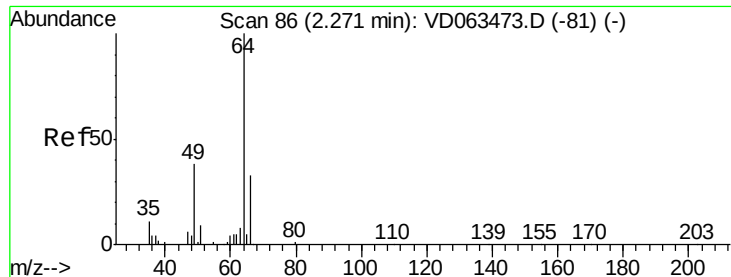


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 1.423 ug/l

RT: 2.22 min Scan# 81

Delta R.T. -0.05 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

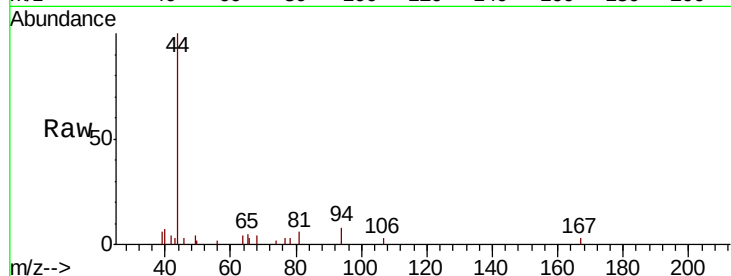
T1-L-(0)RE

Tgt Ion: 64 Resp: 518

Ion Ratio Lower Upper

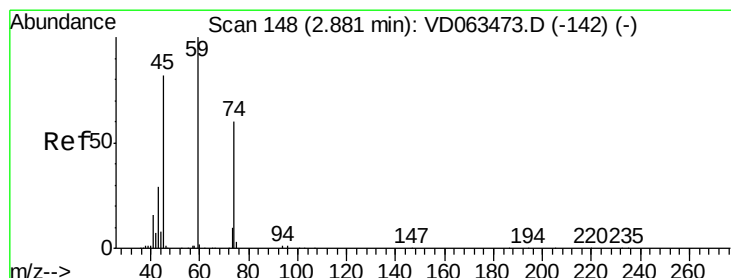
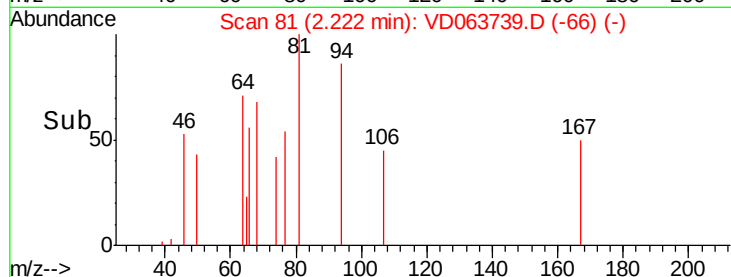
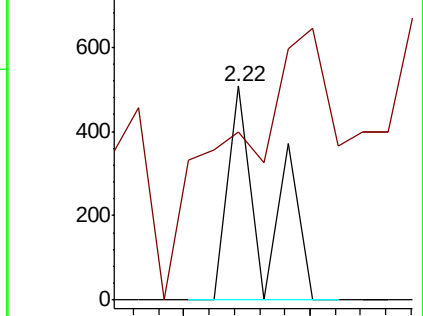
64 100

66 78.9 26.3 39.5#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 6.008 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD063739.D

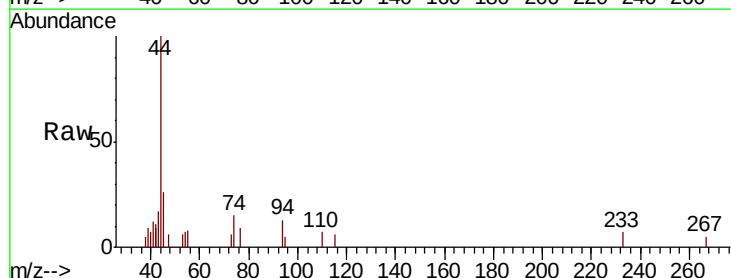
Acq: 22 Aug 2019 17:51

Tgt Ion: 74 Resp: 1325

Ion Ratio Lower Upper

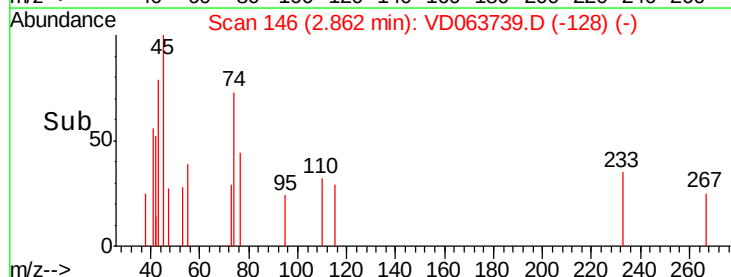
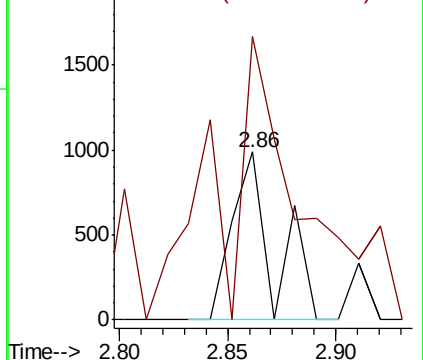
74 100

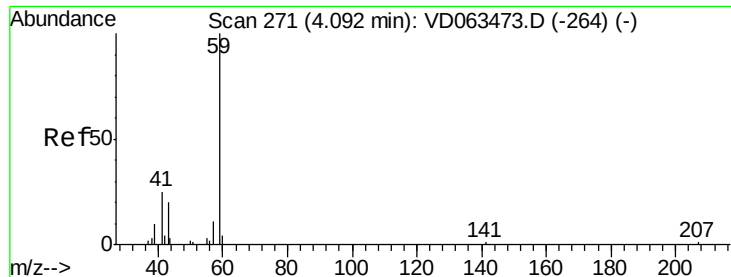
45 168.9 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



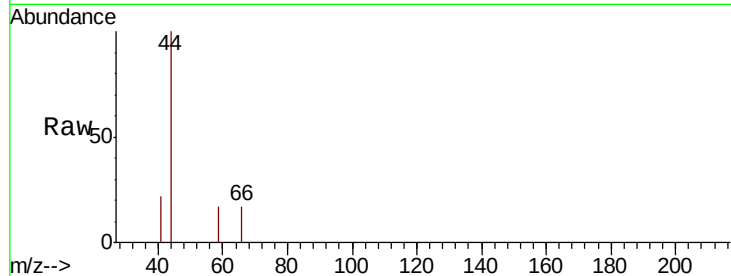


#11

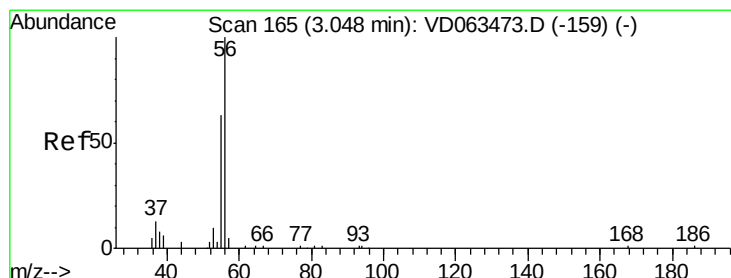
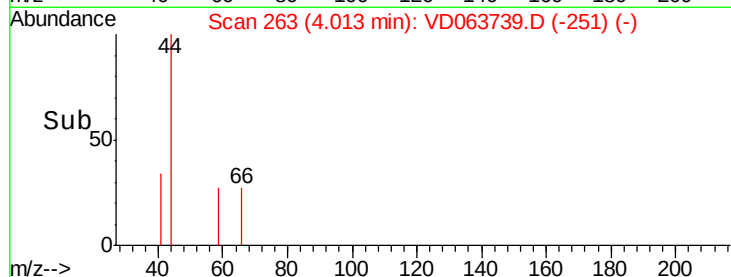
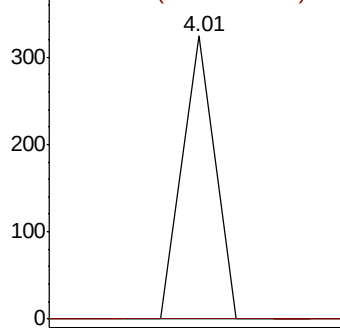
Tert butyl alcohol
Concen: 4.837 ug/l
RT: 4.01 min Scan# 263
Delta R.T. -0.08 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

Instrument :
MSVOA_D
ClientSampleId :
T1-L-(0)RE

Tgt Ion: 59 Resp: 191
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



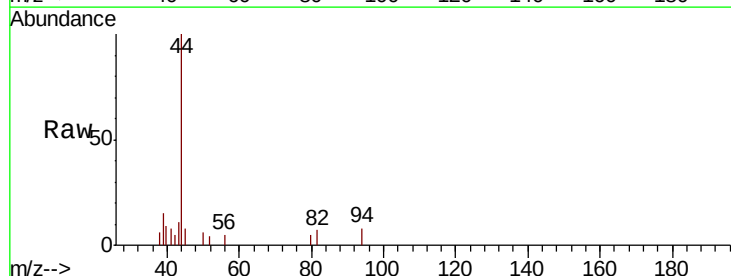
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



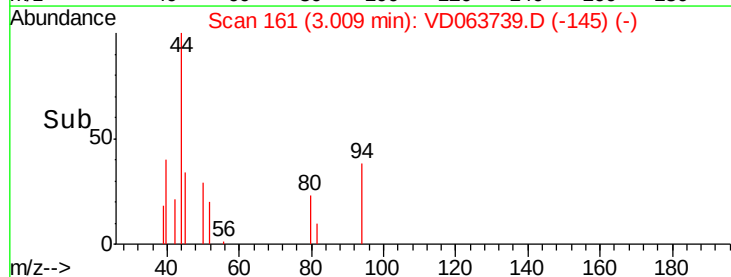
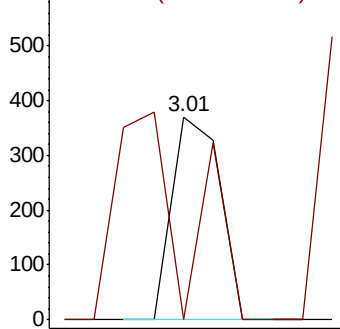
#13

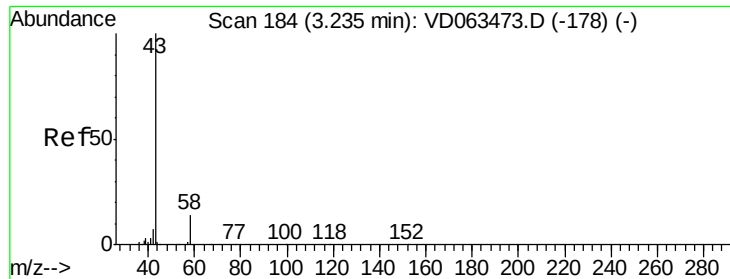
Acrolein
Concen: 10.600 ug/l
RT: 3.01 min Scan# 161
Delta R.T. -0.04 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

Tgt Ion: 56 Resp: 412
Ion Ratio Lower Upper
56 100
55 0.0 51.3 76.9#



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

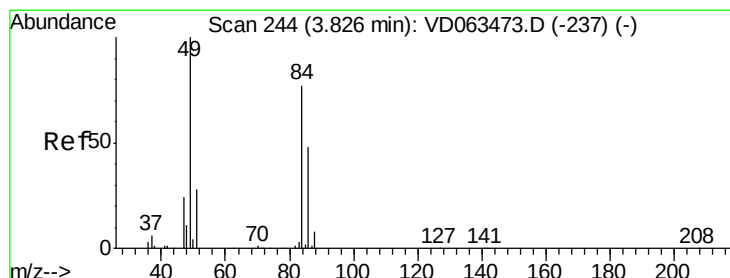
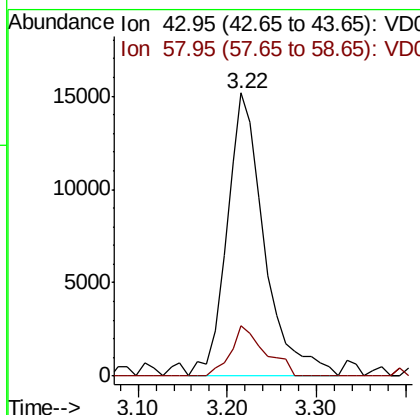
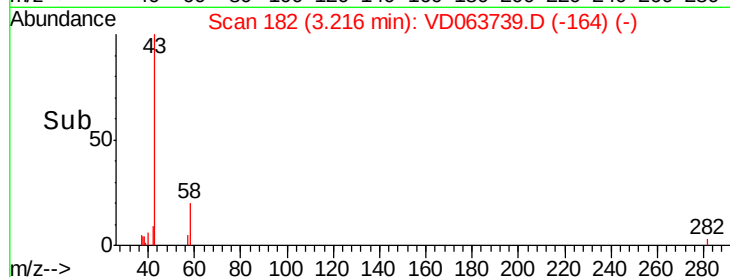
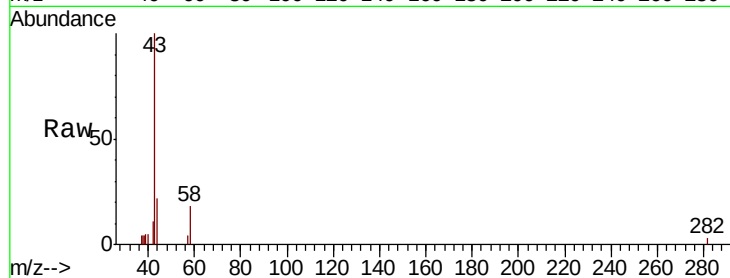




#16
Acetone
Concen: 240.828 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.02 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

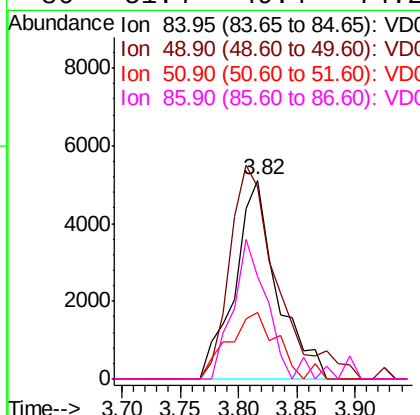
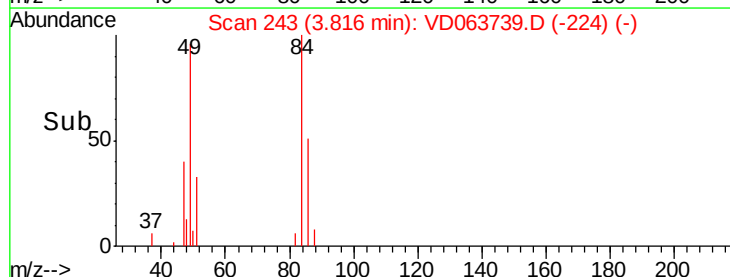
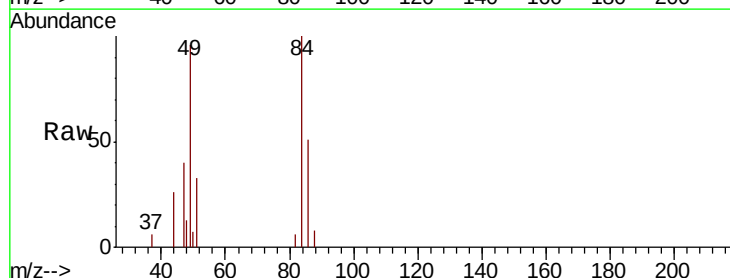
Instrument :
MSVOA_D
ClientSampleId :
T1-L-(0)RE

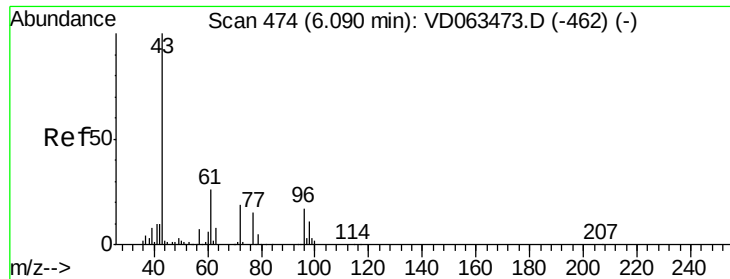
Tgt Ion: 43 Resp: 44407
Ion Ratio Lower Upper
43 100
58 17.8 11.4 17.2#



#20
Methylene Chloride
Concen: 16.114 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

Tgt Ion: 84 Resp: 12848
Ion Ratio Lower Upper
84 100
49 96.2 103.4 155.2#
51 33.2 28.5 42.7
86 51.4 49.4 74.2

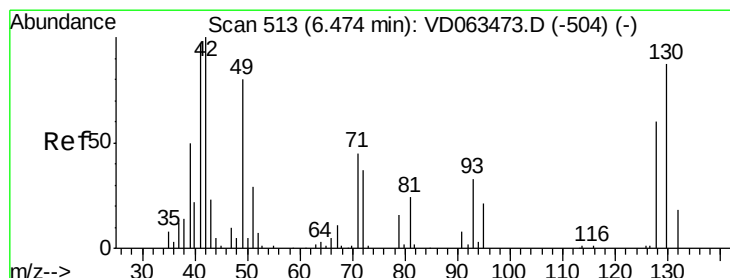
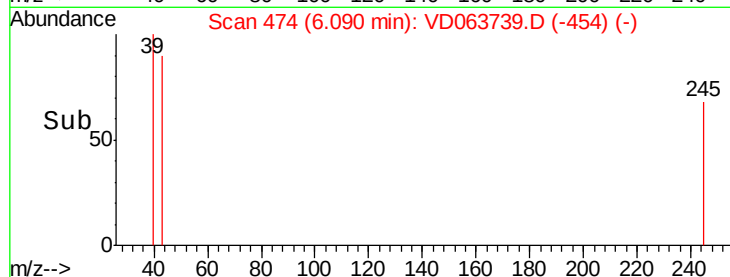
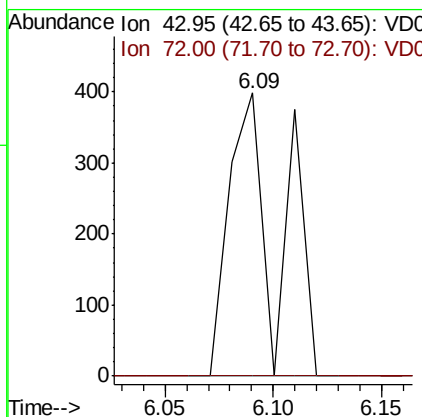
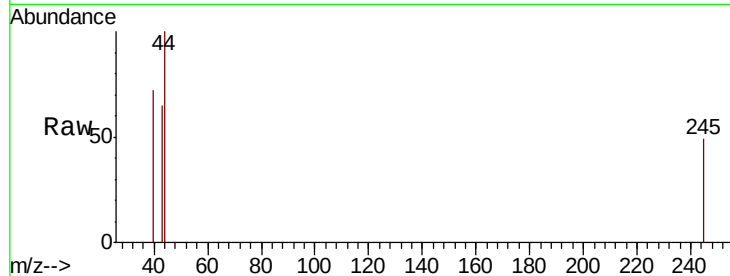




#25
2-Butanone
Concen: 3.487 ug/l
RT: 6.09 min Scan# 474
Delta R.T. 0.00 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

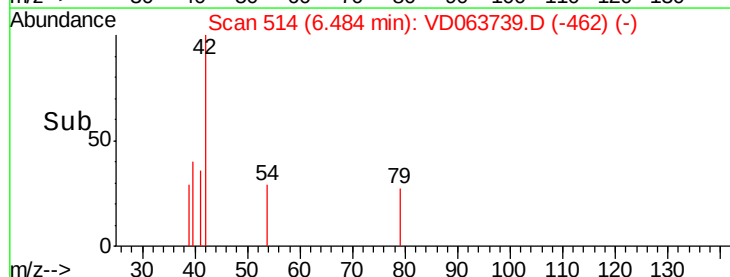
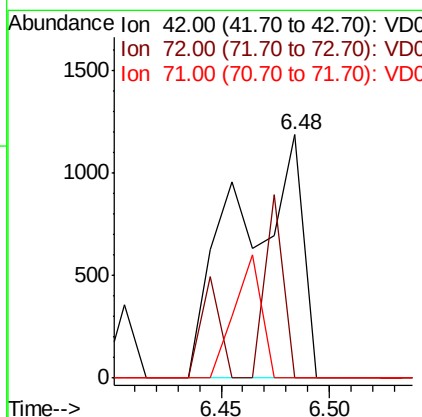
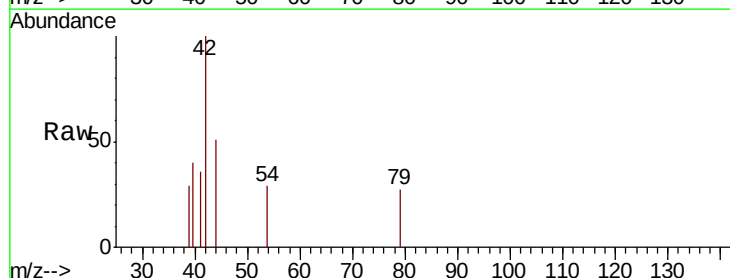
Instrument :
MSVOA_D
ClientSampleId :
T1-L-(0)RE

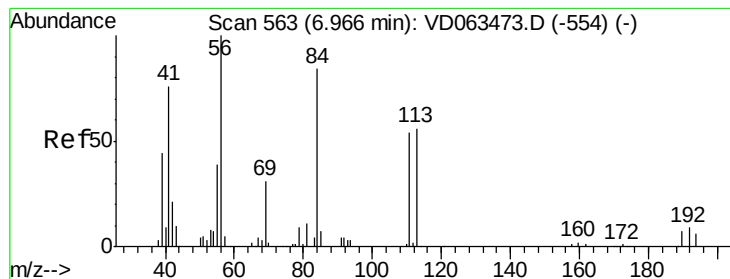
Tgt Ion: 43 Resp: 635
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#



#29
Tetrahydrofuran
Concen: 28.565 ug/l
RT: 6.48 min Scan# 514
Delta R.T. 0.01 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

Tgt Ion: 42 Resp: 2424
Ion Ratio Lower Upper
42 100
72 21.7 31.5 47.3#
71 22.0 33.8 50.8#





#31

Cyclohexane

Concen: 2.706 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.08 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T1-L-(0)RE

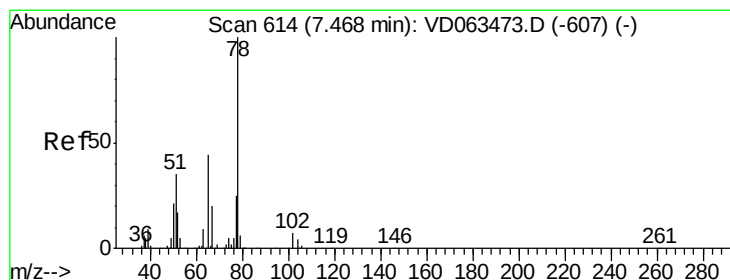
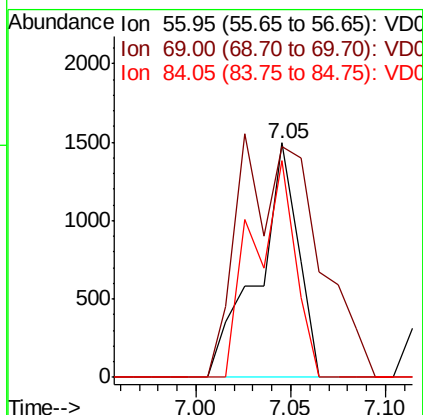
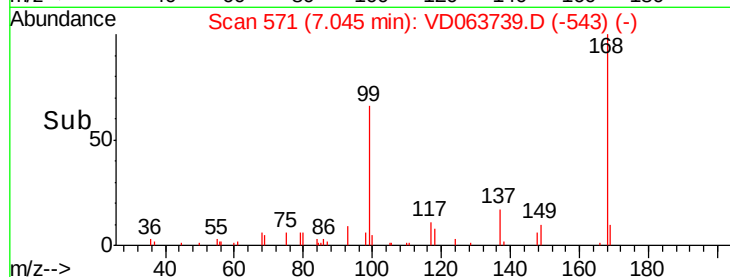
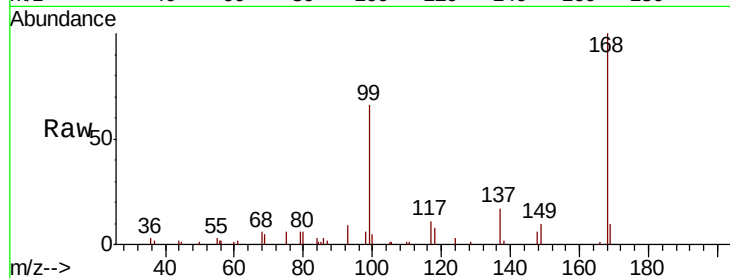
Tgt Ion: 56 Resp: 2216

Ion Ratio Lower Upper

56 100

69 98.2 25.0 37.6#

84 92.4 69.7 104.5



#33

1,2-Dichloroethane-d4

Concen: 127.527 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063739.D

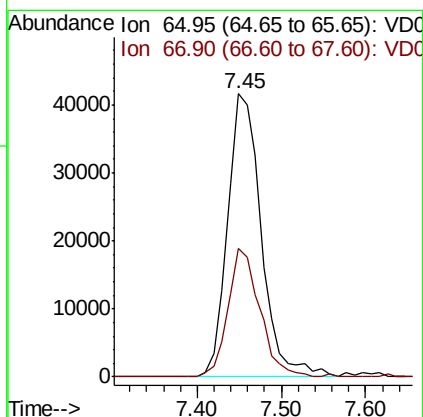
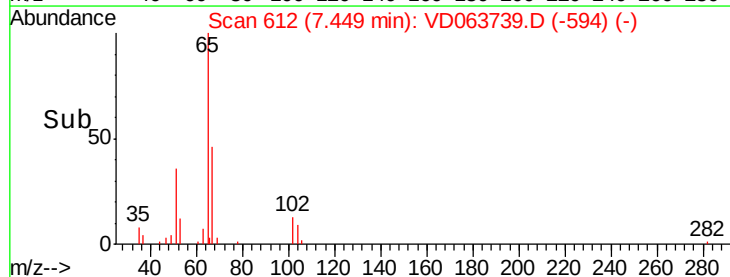
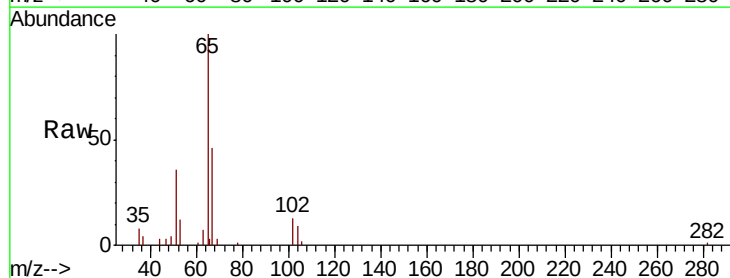
Acq: 22 Aug 2019 17:51

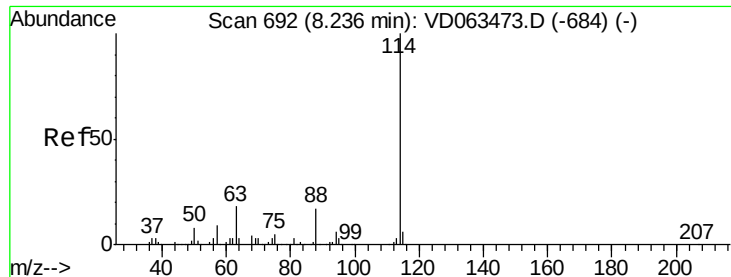
Tgt Ion: 65 Resp: 115678

Ion Ratio Lower Upper

65 100

67 45.6 0.0 89.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T1-L-(0)RE

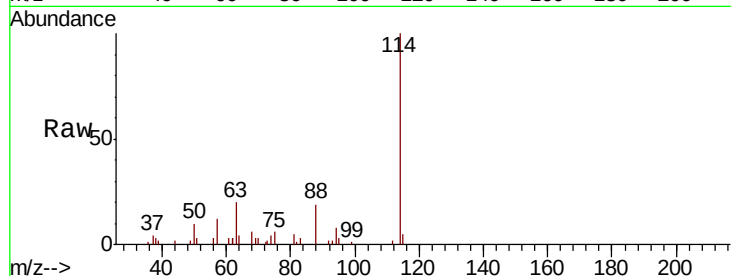
Tgt Ion:114 Resp: 133319

Ion Ratio Lower Upper

114 100

63 20.3 0.0 36.2

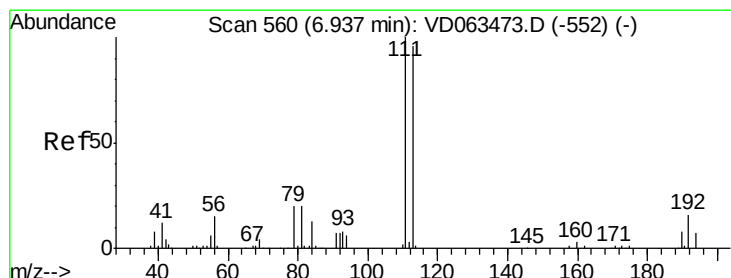
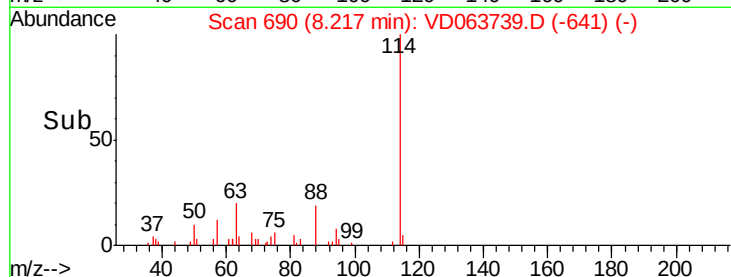
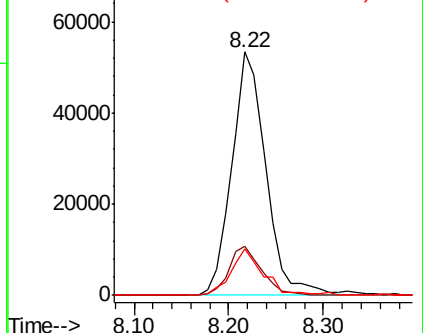
88 19.0 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 79.906 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

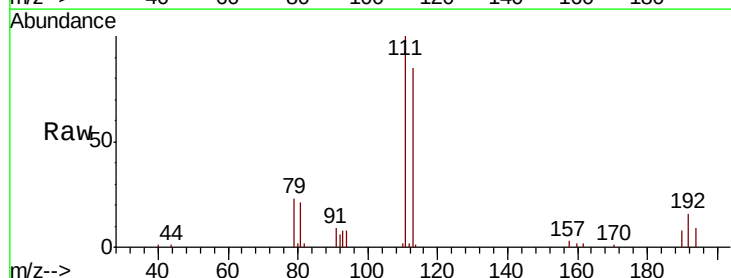
Tgt Ion:113 Resp: 89720

Ion Ratio Lower Upper

113 100

111 117.7 83.1 124.7

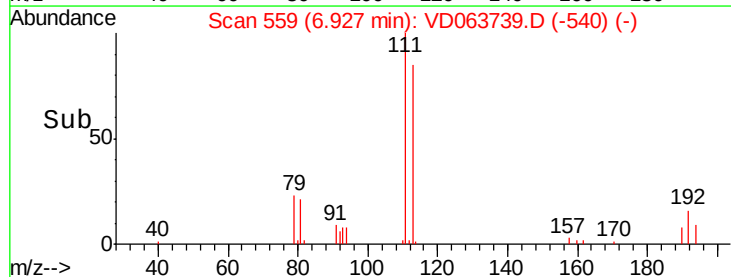
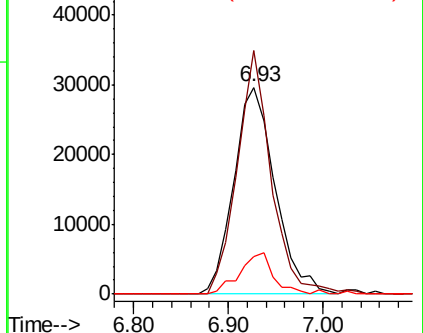
192 18.4 13.1 19.7

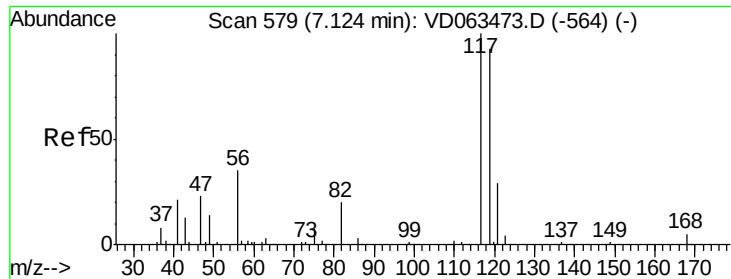


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#38

Carbon Tetrachloride

Concen: 5.040 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T1-L-(0)RE

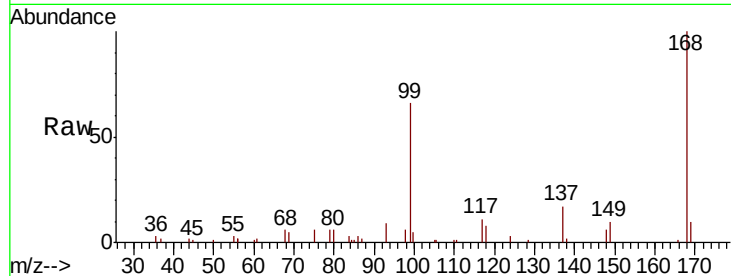
Tgt Ion:117 Resp: 8953

Ion Ratio Lower Upper

117 100

119 0.0 74.2 111.2#

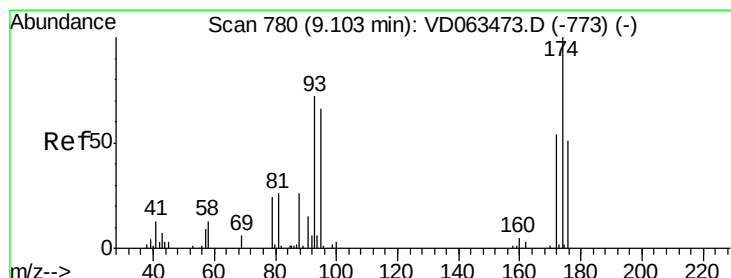
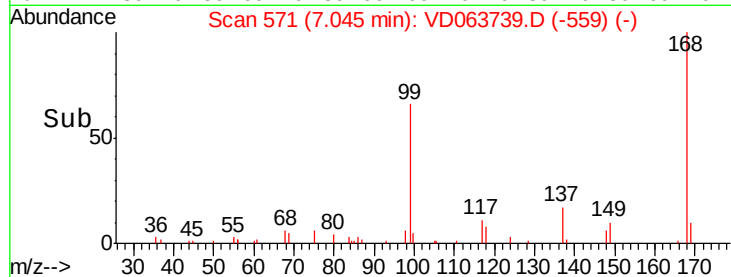
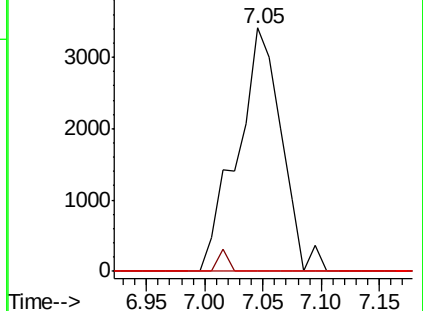
121 0.0 23.1 34.7#



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



#49

1,4-Dioxane

Concen: 69.295 ug/l

RT: 9.09 min Scan# 779

Delta R.T. -0.01 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

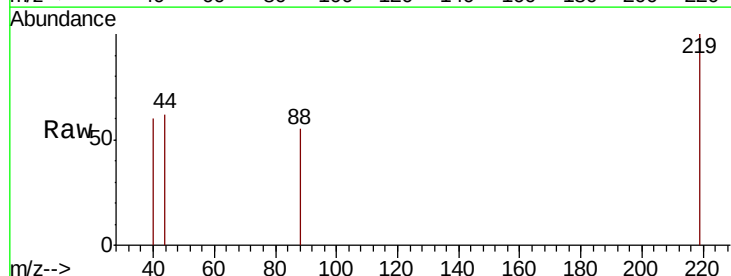
Tgt Ion: 88 Resp: 183

Ion Ratio Lower Upper

88 100

43 0.0 22.9 34.3#

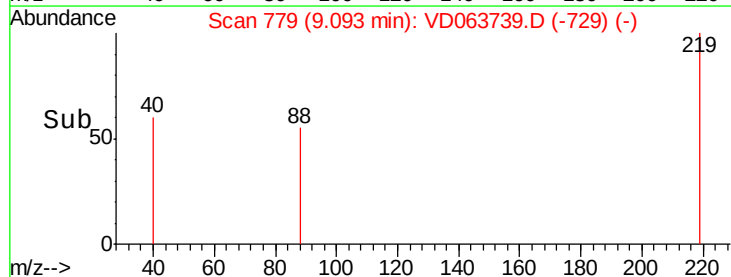
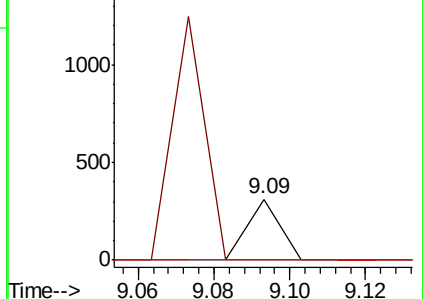
58 0.0 40.1 60.1#

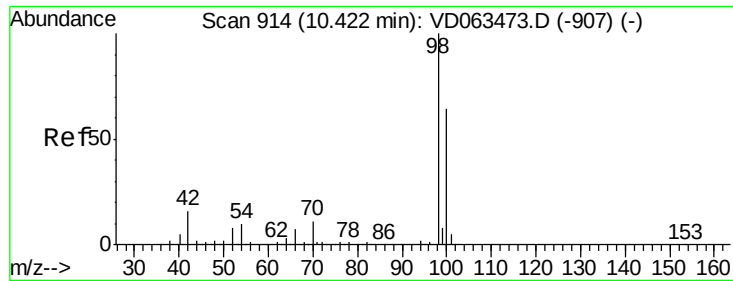


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

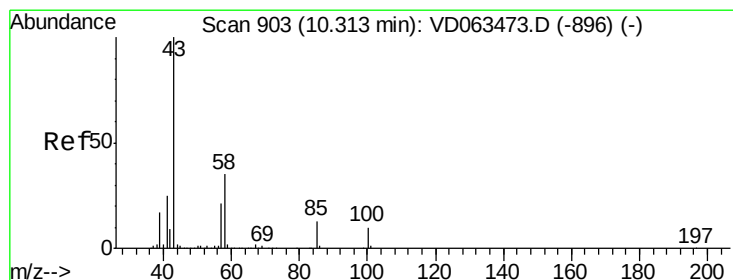
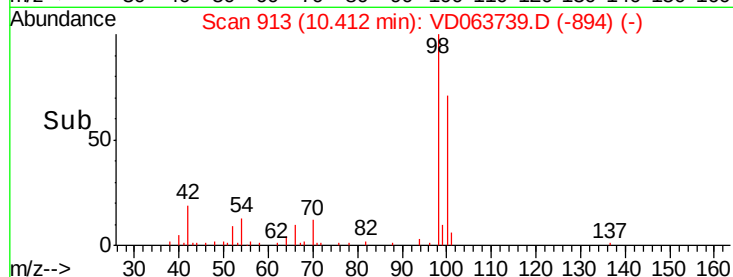
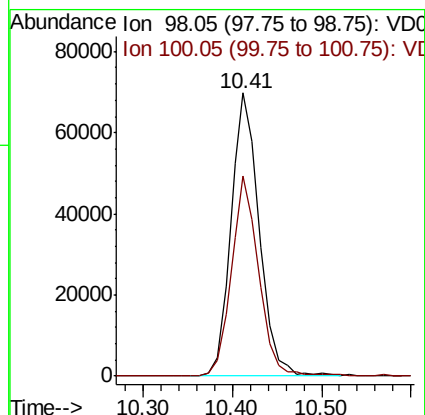
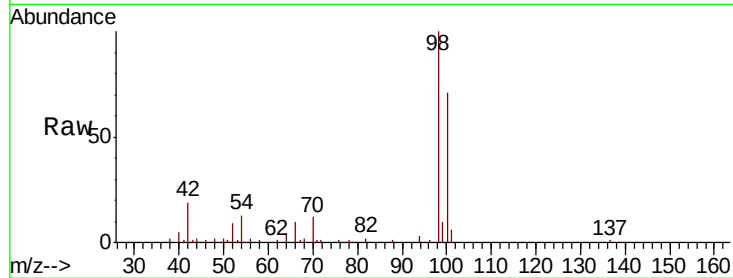




#50
Toluene-d8
Concen: 62.390 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

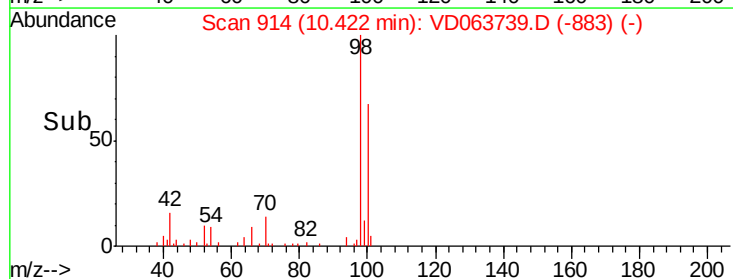
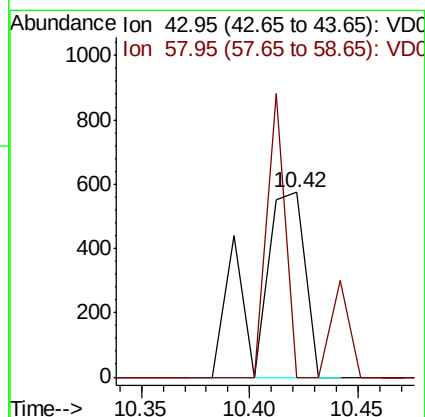
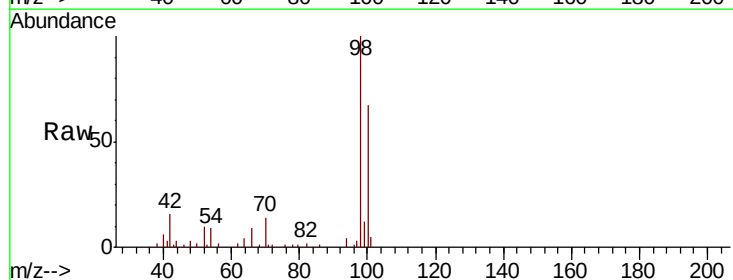
Instrument :
MSVOA_D
ClientSampleId :
T1-L-(0)RE

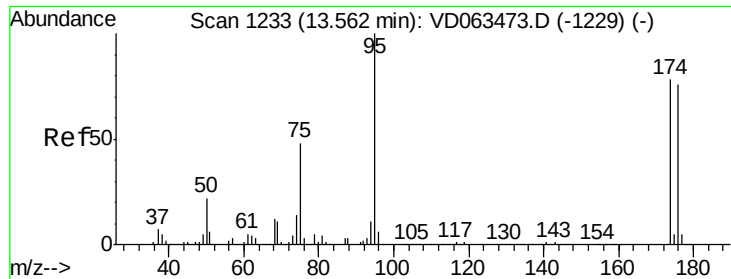
Tgt Ion: 98 Resp: 154014
Ion Ratio Lower Upper
98 100
100 70.6 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 2.042 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.11 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

Tgt Ion: 43 Resp: 924
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

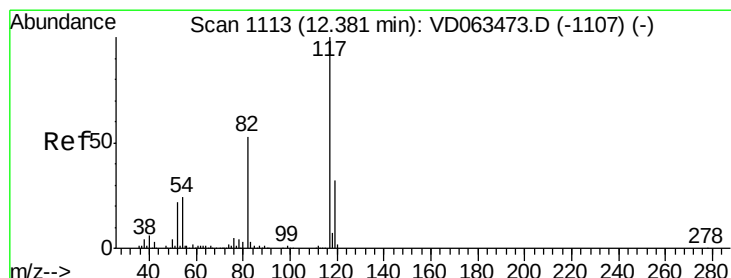
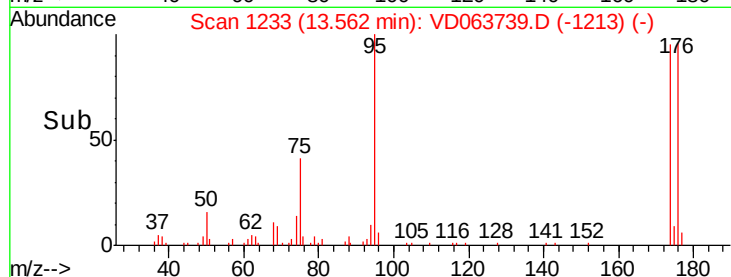
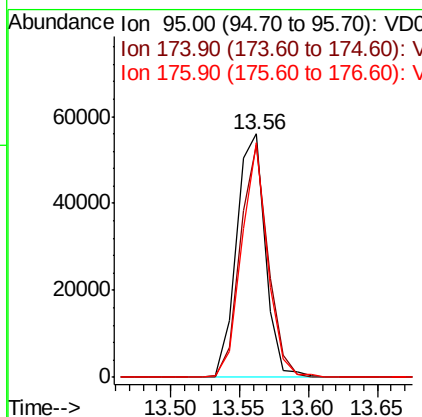
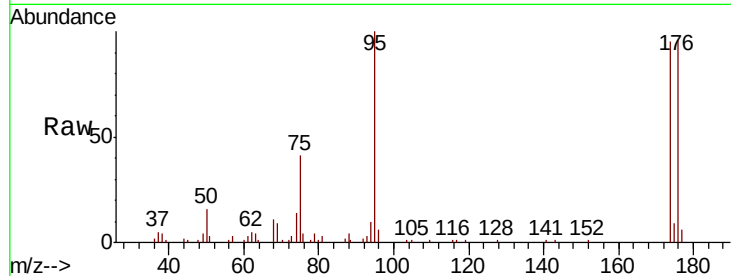




#62
4-Bromofluorobenzene
Concen: 73.172 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

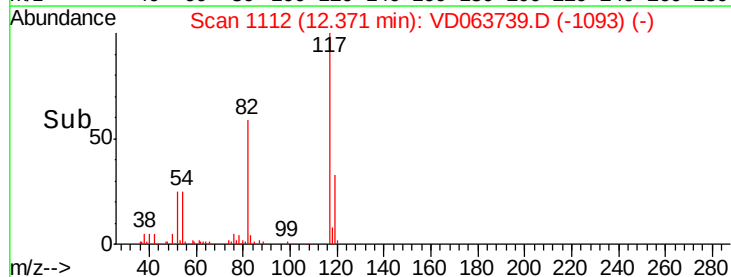
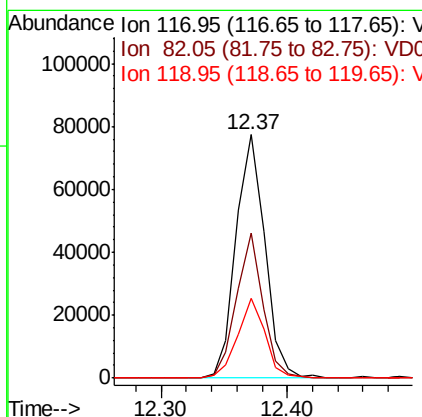
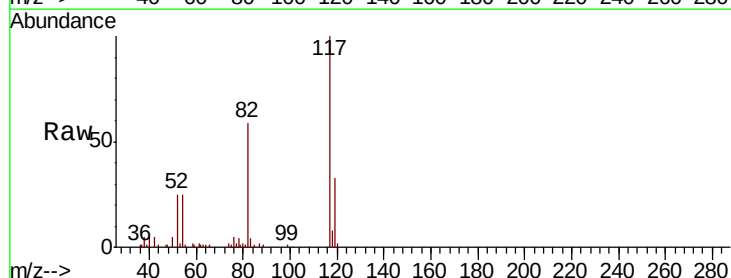
Instrument :
MSVOA_D
ClientSampleId :
T1-L-(0)RE

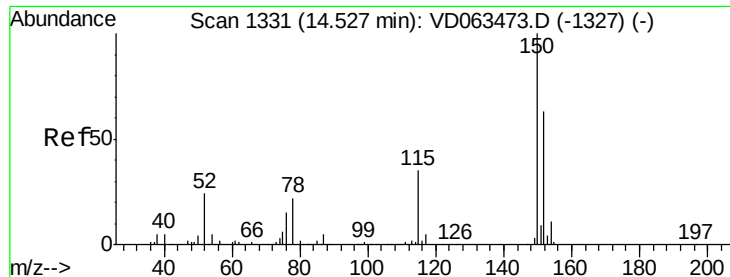
Tgt Ion: 95 Resp: 81870
Ion Ratio Lower Upper
95 100
174 95.2 0.0 155.4
176 96.2 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD063739.D
Acq: 22 Aug 2019 17:51

Tgt Ion: 117 Resp: 121961
Ion Ratio Lower Upper
117 100
82 59.4 42.0 63.0
119 32.9 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

Instrument :

MSVOA_D

ClientSampleId :

T1-L-(0)RE

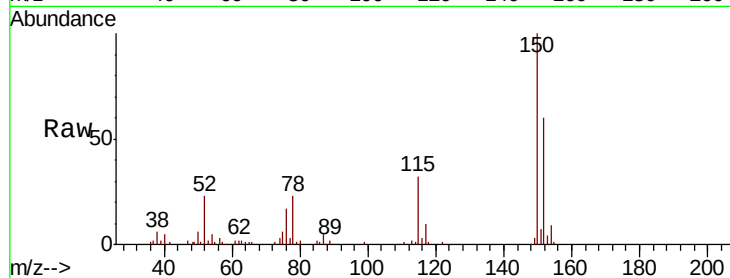
Tgt Ion:152 Resp: 63851

Ion Ratio Lower Upper

152 100

115 53.1 30.9 92.7

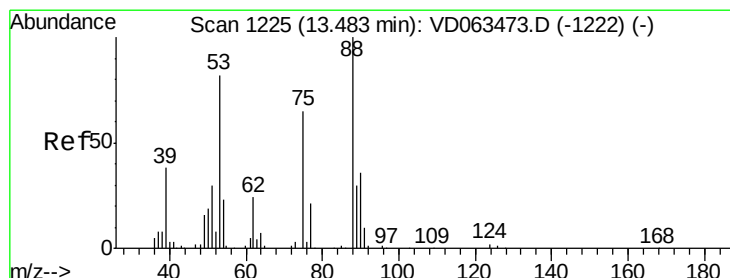
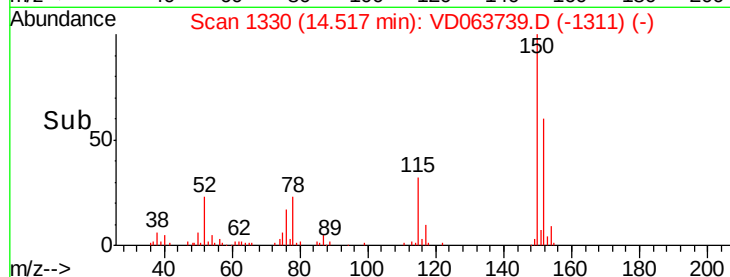
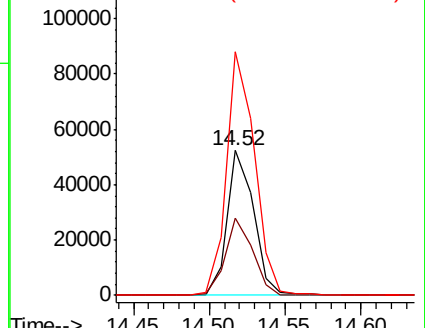
150 167.9 0.0 318.6



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: 179.811 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD063739.D

Acq: 22 Aug 2019 17:51

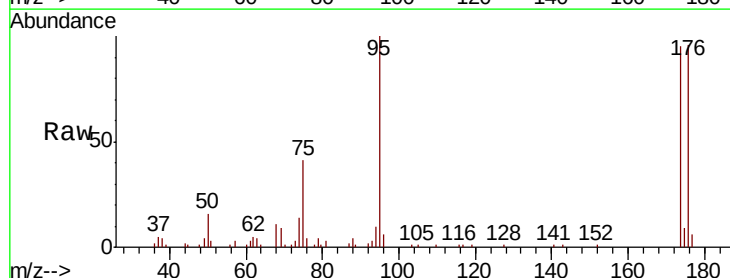
Tgt Ion: 75 Resp: 35415

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#



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

