

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063126.D
 Acq On : 17 Jul 2019 12:48
 Operator : VA/AP
 Sample : K3622-05
 Misc : 6.17g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 18 06:55:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	832580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1111502	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	835859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	310960	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	421255	40.62	ug/l	0.00
Spiked Amount			Recovery	=	81.24%	
35) Dibromofluoromethane	6.92	113	444627	40.16	ug/l	0.00
Spiked Amount			Recovery	=	80.32%	
50) Toluene-d8	10.40	98	933478	39.25	ug/l	0.00
Spiked Amount			Recovery	=	78.50%	
62) 4-Bromofluorobenzene	13.55	95	343984	31.27	ug/l	0.00
Spiked Amount			Recovery	=	62.54%	

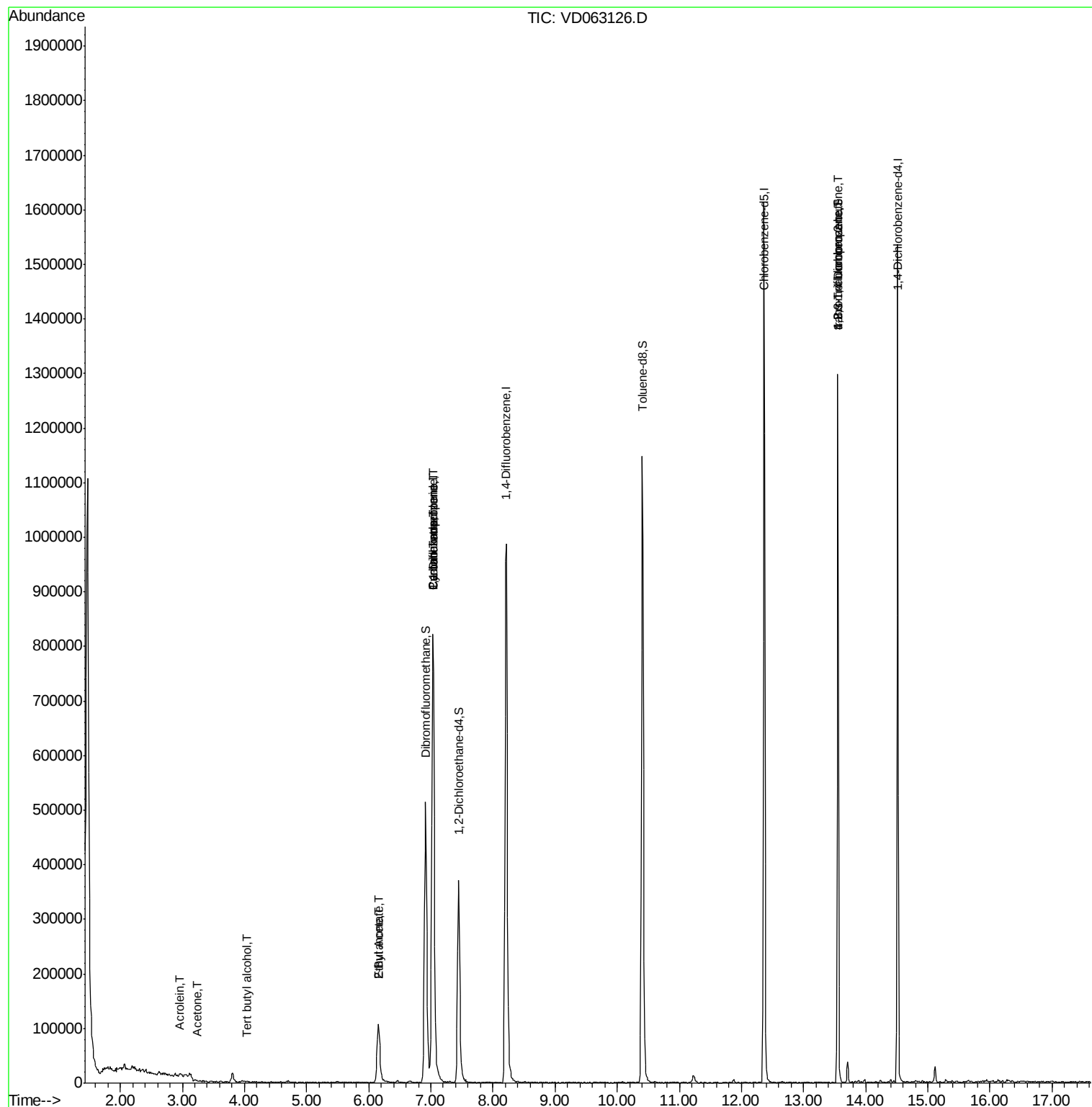
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	760	Below Cal	#	43
3) Chloromethane	1.75	50	1083	Below Cal	#	48
5) Bromomethane	2.15	94	1095	Below Cal	#	13
11) Tert butyl alcohol	4.04	59	1470	2.456	ug/l #	77
13) Acrolein	2.94	56	327	1.810	ug/l	94
16) Acetone	3.23	43	5639	2.251	ug/l #	62
18) Methyl Acetate	3.63	43	696	Below Cal	#	63
25) 2-Butanone	6.15	43	9002	3.763	ug/l #	61
31) Cyclohexane	7.04	56	19531	1.978	ug/l #	19
36) 1,1-Dichloropropene	7.03	75	62635	5.010	ug/l #	47
37) Ethyl Acetate	6.15	43	9002	1.683	ug/l #	51
38) Carbon Tetrachloride	7.04	117	80362	4.231	ug/l #	15
76) 1,2,3-Trichloropropane	13.55	75	123166	25.748	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	162666	129.135	ug/l #	1

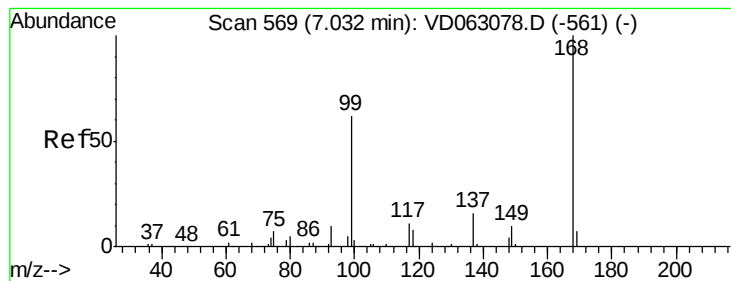
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

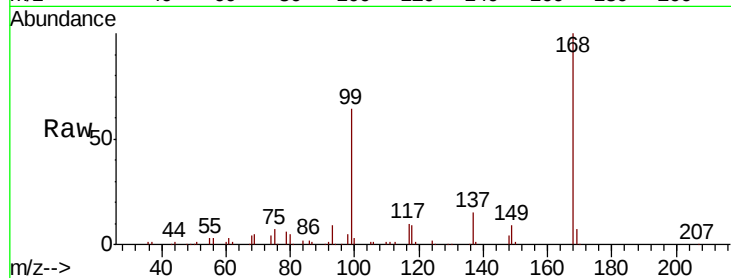
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 832580

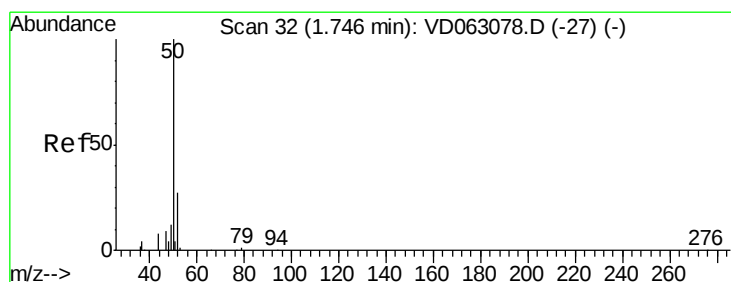
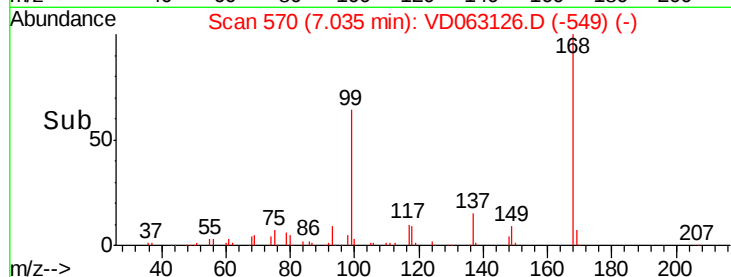
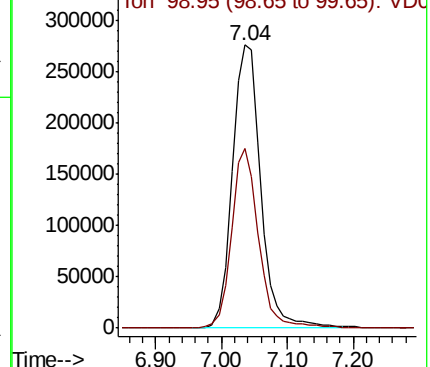
Ion Ratio Lower Upper

168 100

99 63.6 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD063126.D

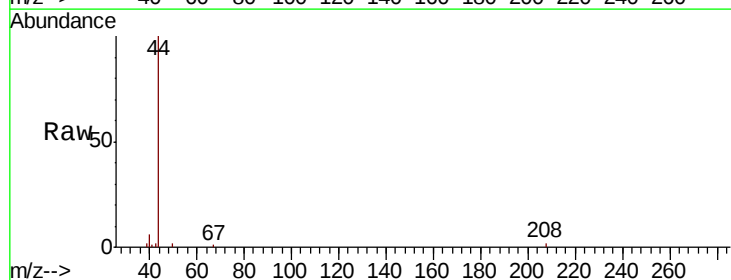
Acq: 17 Jul 2019 12:48

Tgt Ion: 50 Resp: 1083

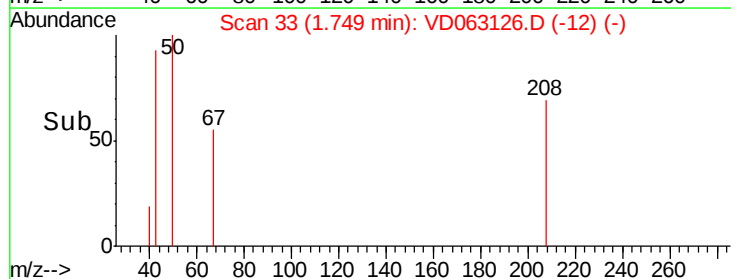
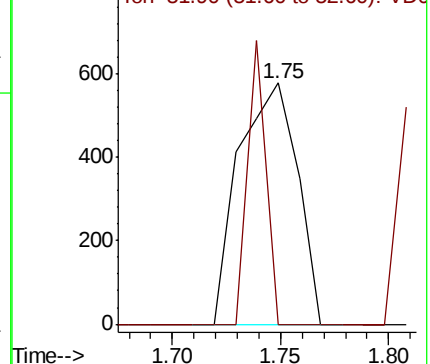
Ion Ratio Lower Upper

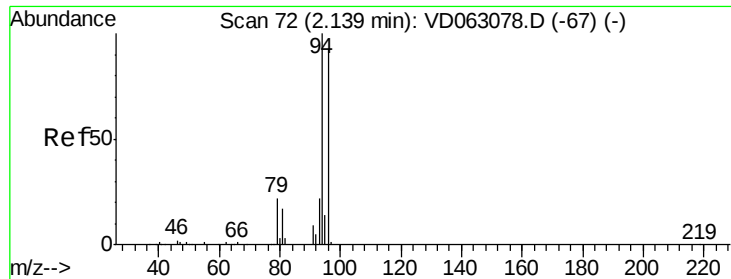
50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

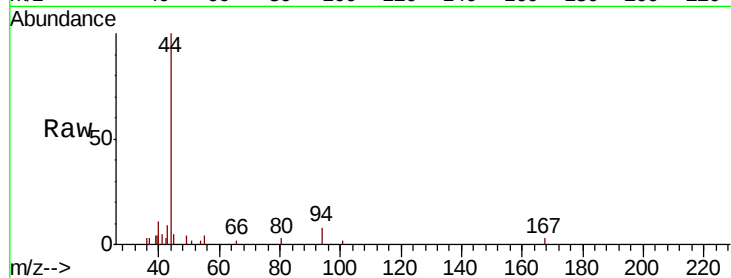
Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

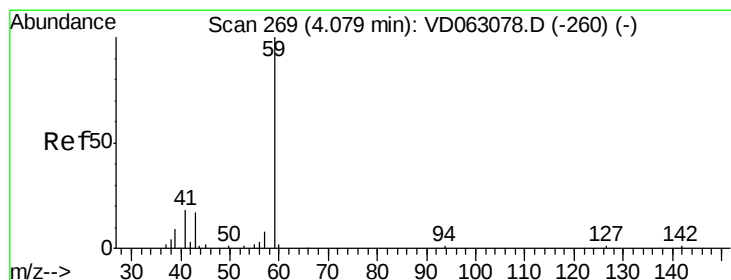
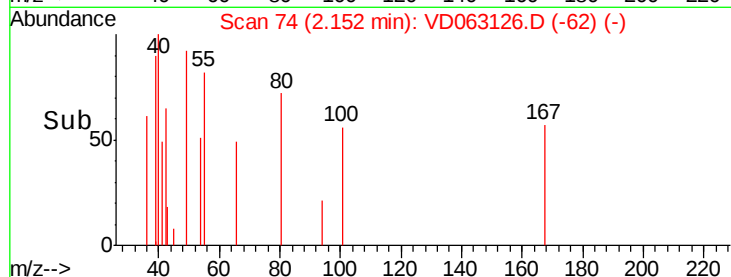
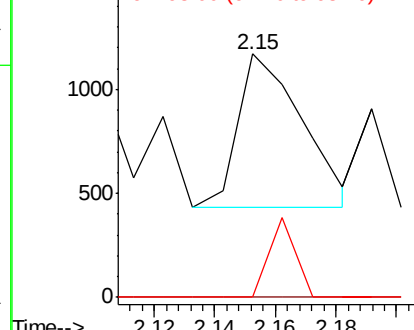
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 94 Resp: 1095

Ion	Ratio	Lower	Upper
94	100		
96	0.0	74.2	111.2#
93	0.0	17.8	26.6#



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



#11

Tert butyl alcohol

Concen: 2.456 ug/l

RT: 4.04 min Scan# 266

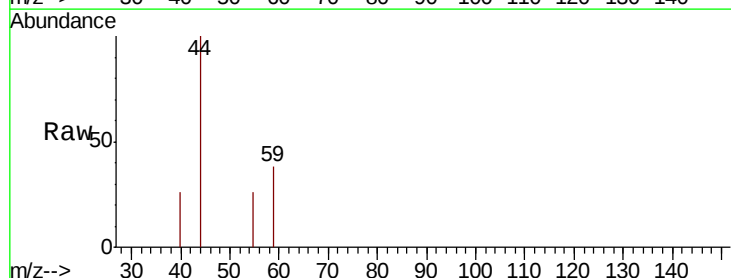
Delta R.T. -0.04 min

Lab File: VD063126.D

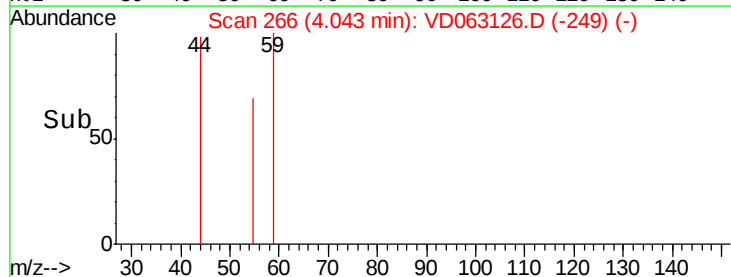
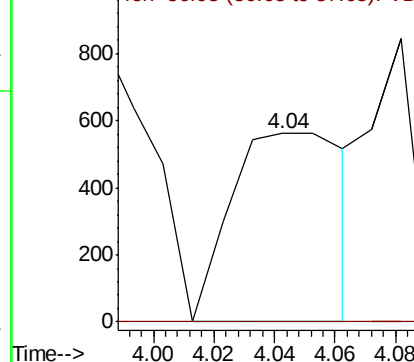
Acq: 17 Jul 2019 12:48

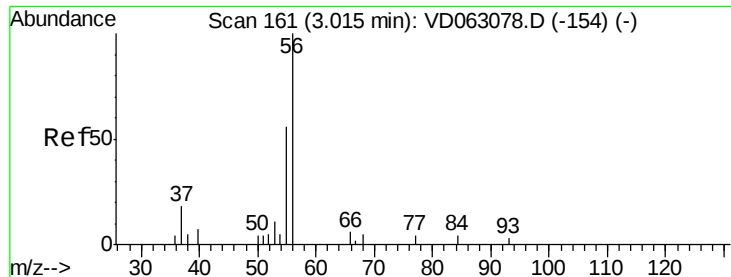
Tgt Ion: 59 Resp: 1470

Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.4	9.6#



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





#13

Acrolein

Concen: 1.810 ug/l

RT: 2.94 min Scan# 154

Delta R.T. -0.08 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

Instrument :

MSVOA_D

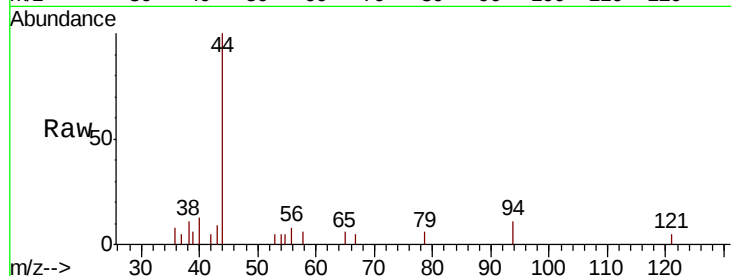
ClientSampleId :

Tot Ion: 56 Resp: 327

Ion Ratio Lower Upper

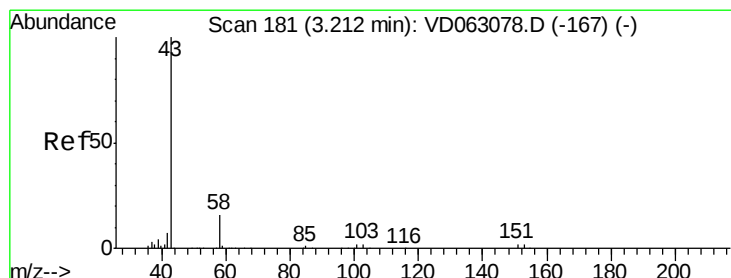
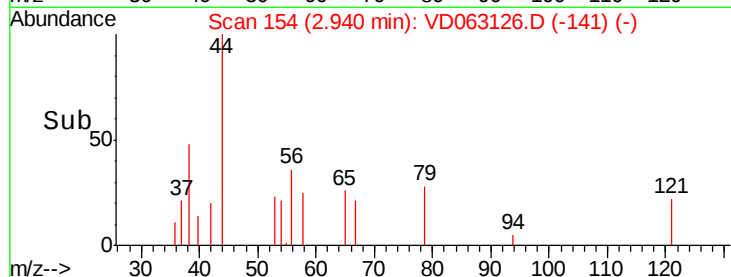
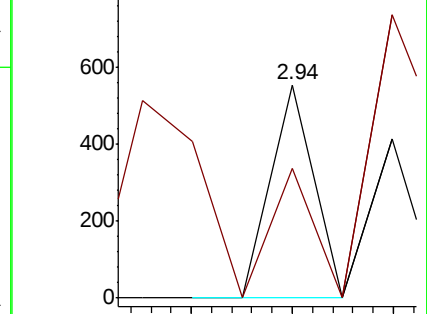
56 100

55 61.1 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 2.251 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063126.D

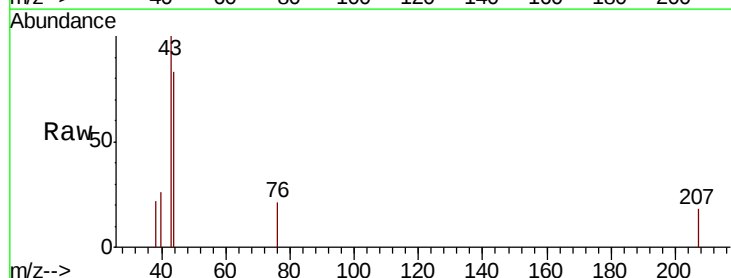
Acq: 17 Jul 2019 12:48

Tgt Ion: 43 Resp: 5639

Ion Ratio Lower Upper

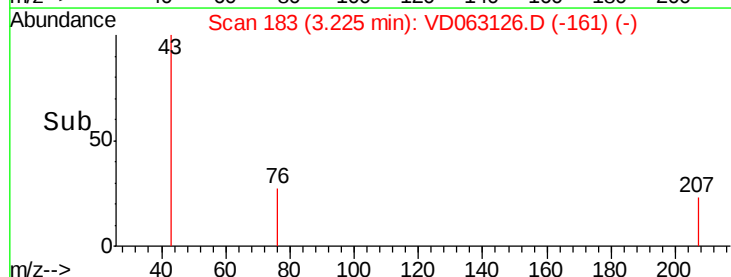
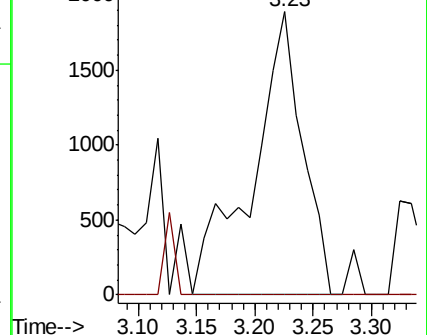
43 100

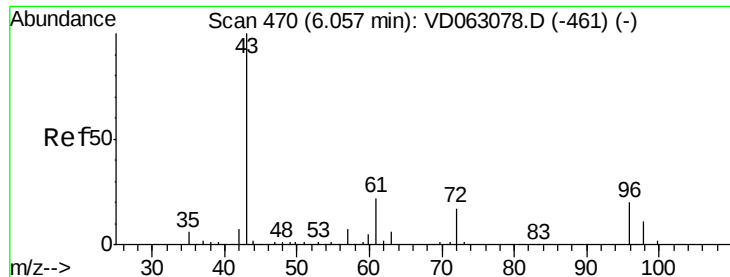
58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 3.763 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.09 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

Instrument :

MSVOA_D

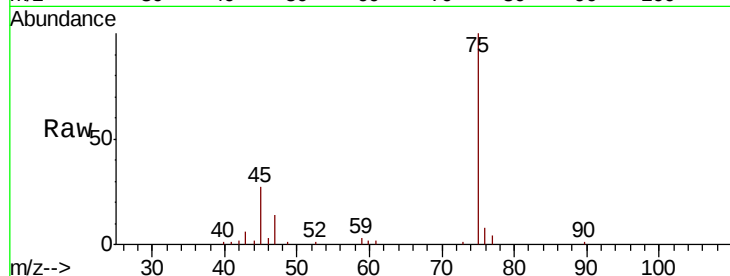
ClientSampleId :

Tot Ion: 43 Resp: 9002

Ion Ratio Lower Upper

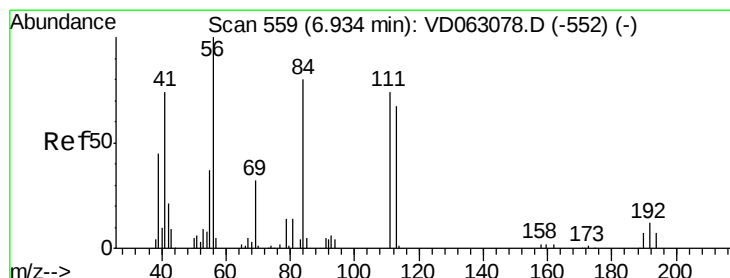
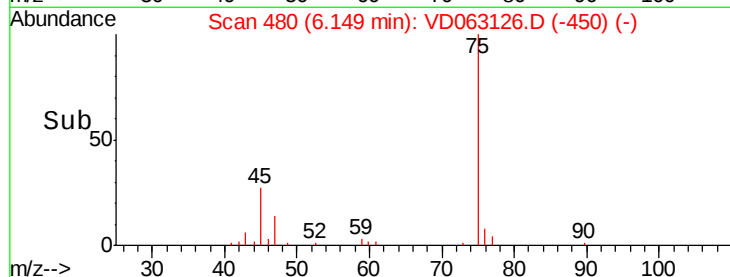
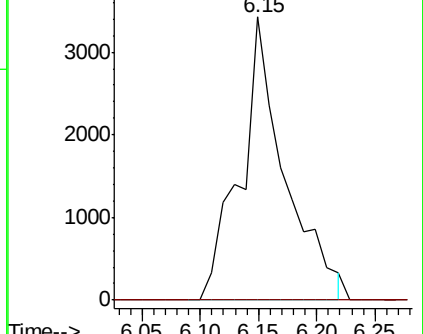
43 100

72 0.0 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.978 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

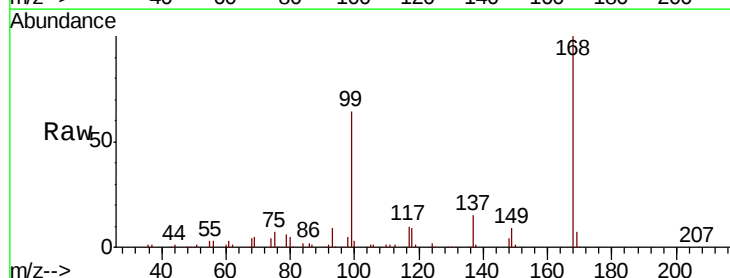
Tgt Ion: 56 Resp: 19531

Ion Ratio Lower Upper

56 100

69 187.8 25.3 37.9#

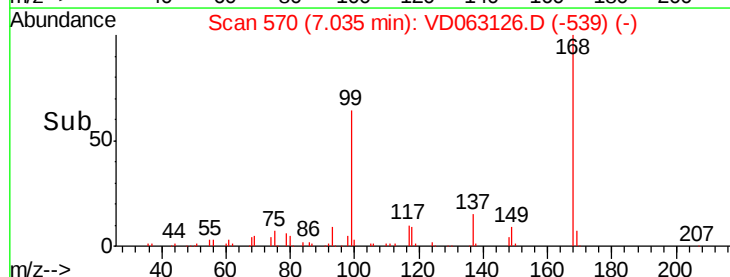
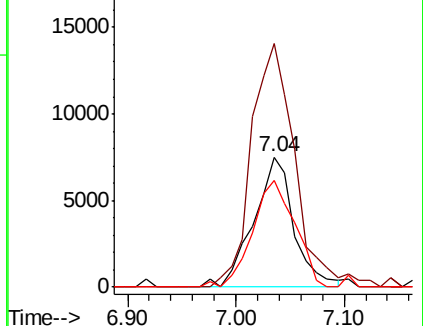
84 82.3 64.2 96.4

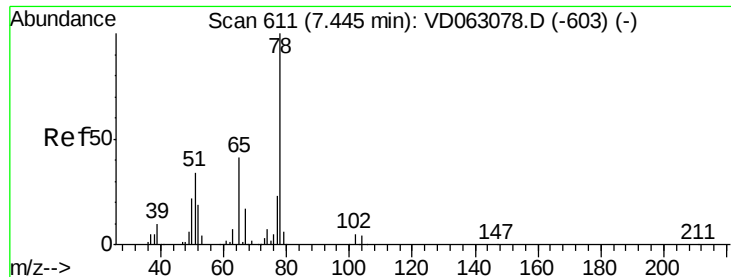


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

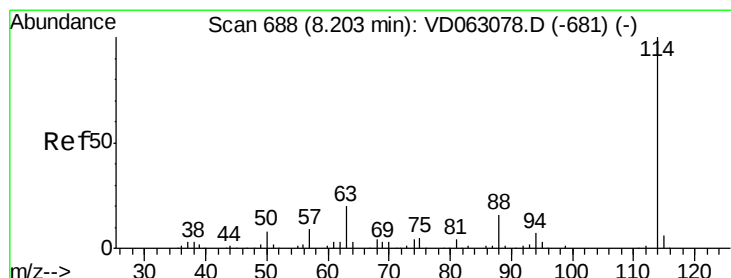
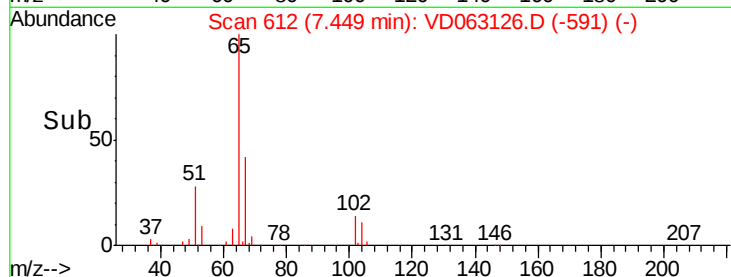
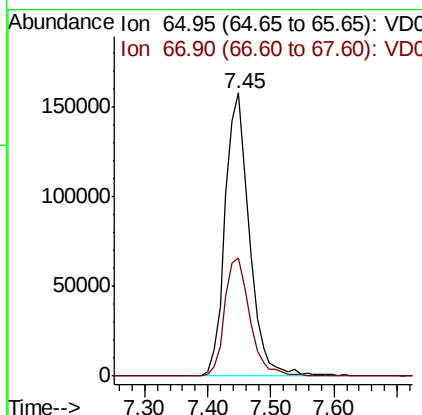
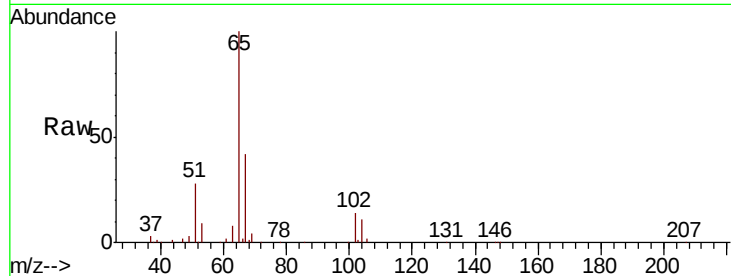




#33
 1,2-Dichloroethane-d4
 Concen: 40.617 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VD063126.D
 Acq: 17 Jul 2019 12:48

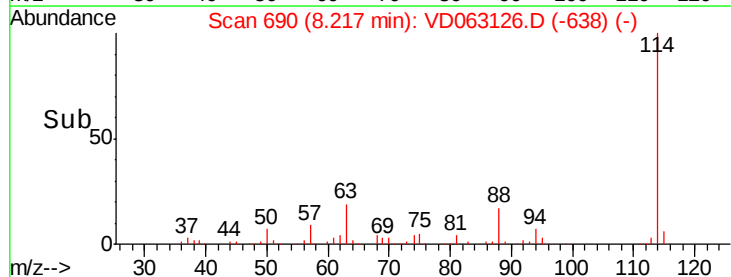
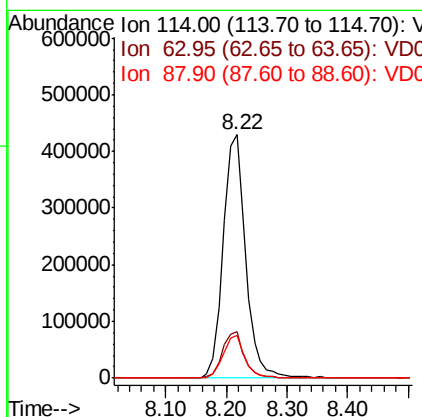
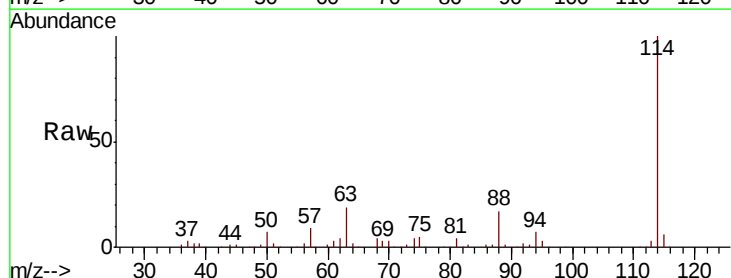
Instrument :
 MSVOA_D
 ClientSampleId :

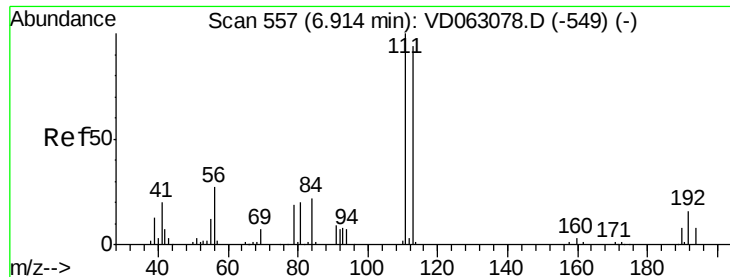
Tot Ion: 65 Resp: 421255
 Ion Ratio Lower Upper
 65 100
 67 41.8 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063126.D
 Acq: 17 Jul 2019 12:48

Tgt Ion: 114 Resp: 1111502
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.6
 88 17.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 40.162 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

Instrument :
MSVOA_D
ClientSampleId :

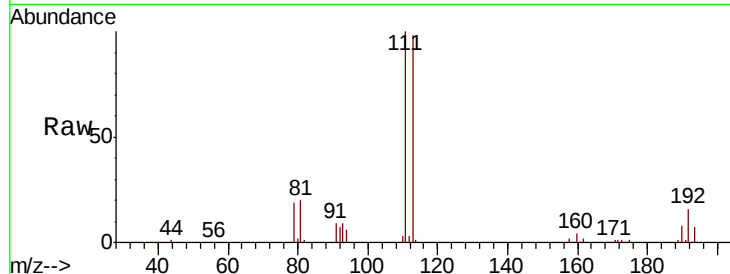
Tot Ion:113 Resp: 444627

Ion Ratio Lower Upper

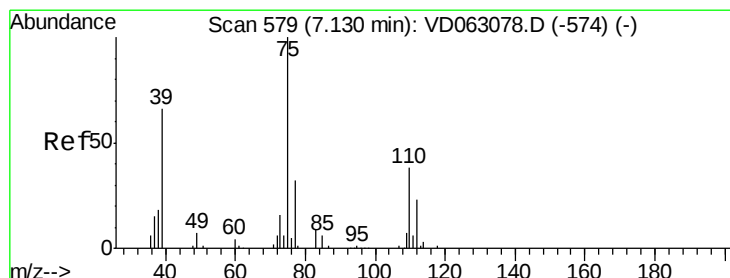
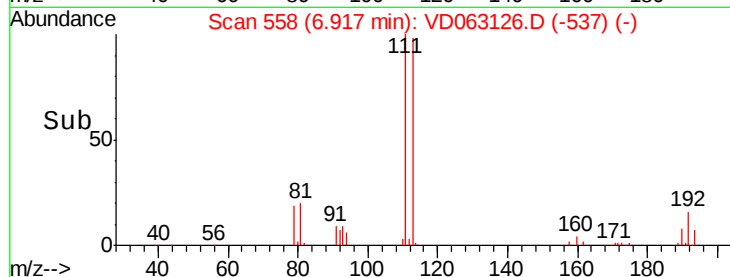
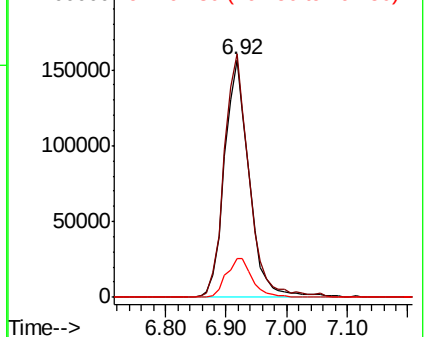
113 100

111 102.4 84.8 127.2

192 16.5 13.4 20.0



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.010 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.11 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

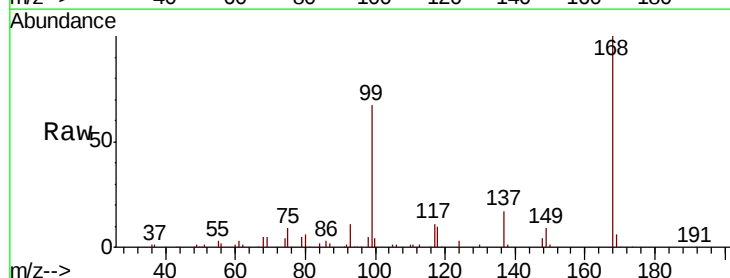
Tgt Ion: 75 Resp: 62635

Ion Ratio Lower Upper

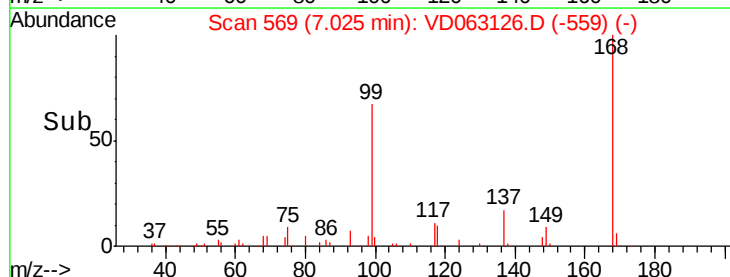
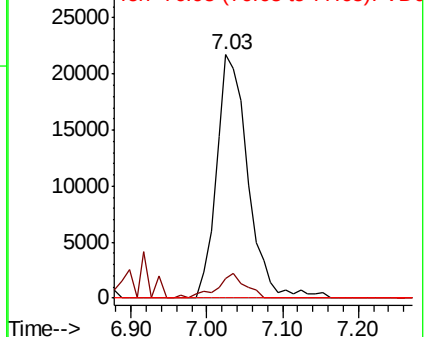
75 100

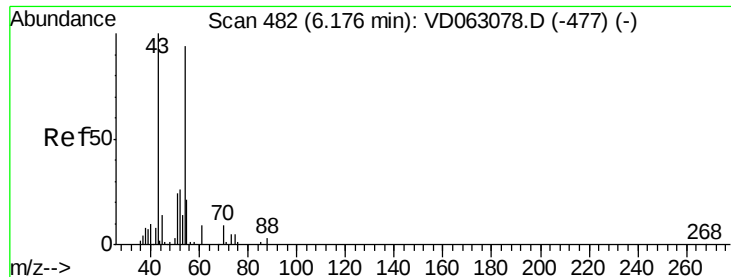
110 7.9 18.9 56.5#

77 0.0 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 1.683 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

Instrument :

MSVOA_D

ClientSampled :

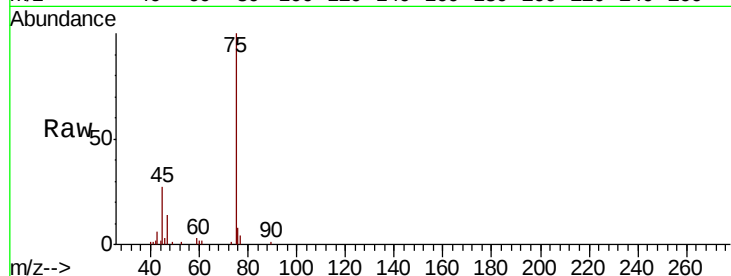
Tot Ion: 43 Resp: 9002

Ion Ratio Lower Upper

43 100

61 39.3 10.6 16.0#

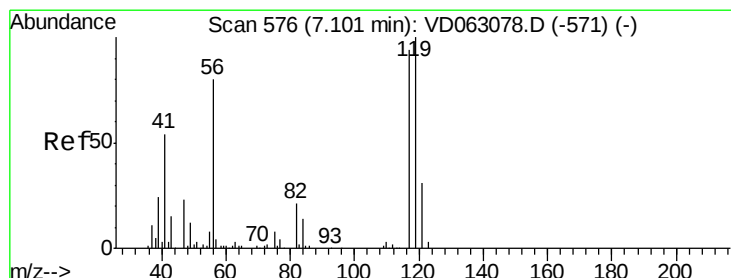
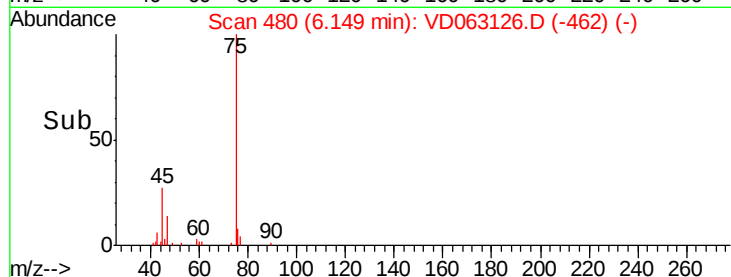
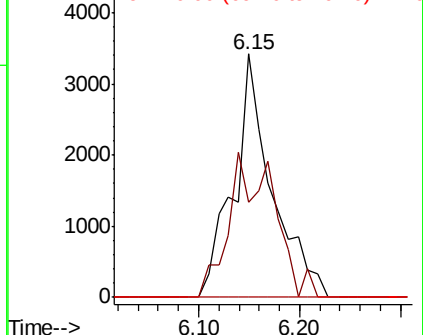
70 0.0 6.6 9.8#



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: 4.231 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.07 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

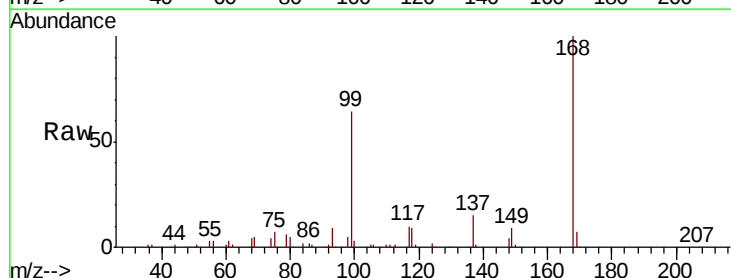
Tgt Ion: 117 Resp: 80362

Ion Ratio Lower Upper

117 100

119 6.7 80.0 120.0#

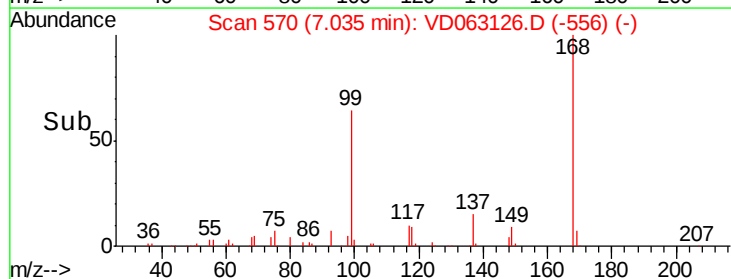
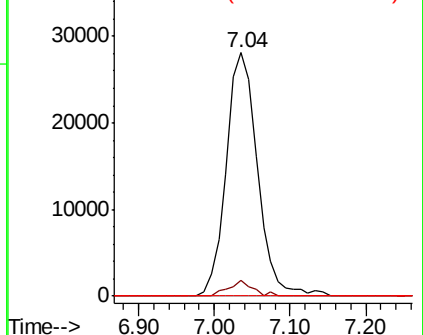
121 0.0 25.0 37.4#

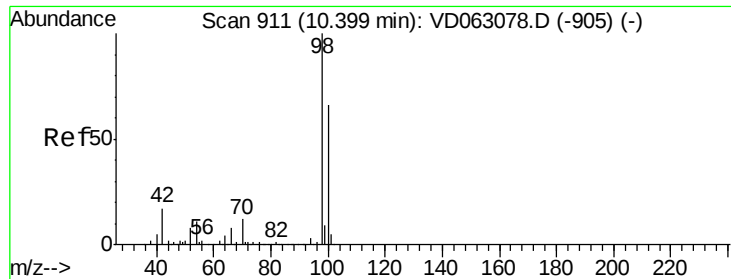


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 39.254 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

Instrument :

MSVOA_D

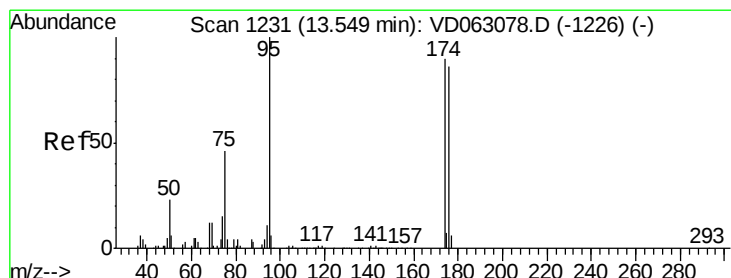
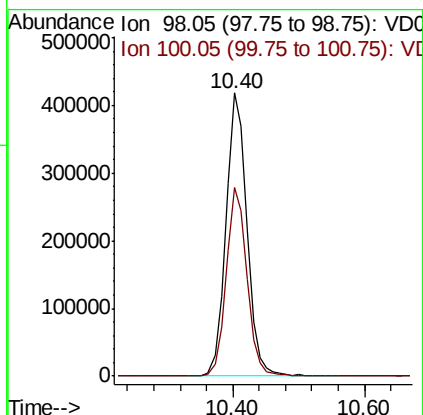
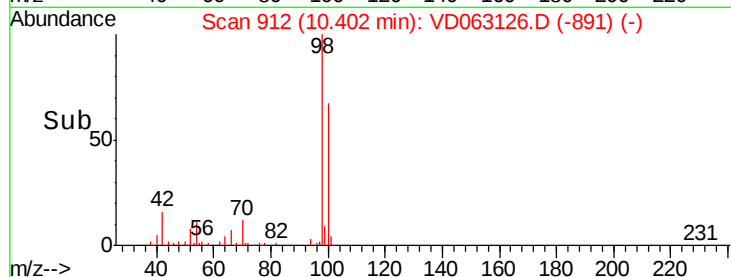
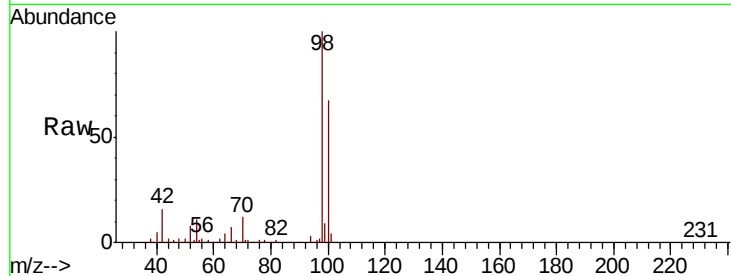
ClientSampleId :

Tot Ion: 98 Resp: 933478

Ion Ratio Lower Upper

98 100

100 66.8 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 31.267 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

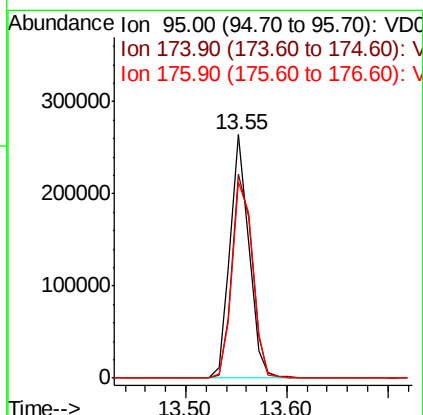
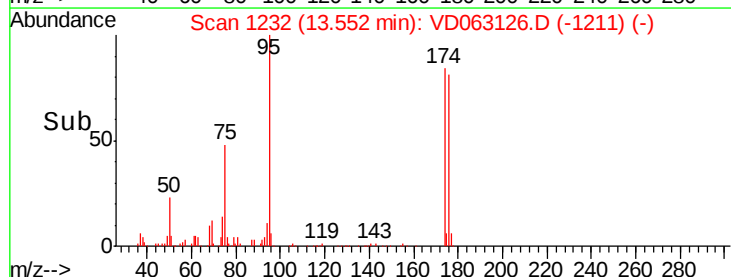
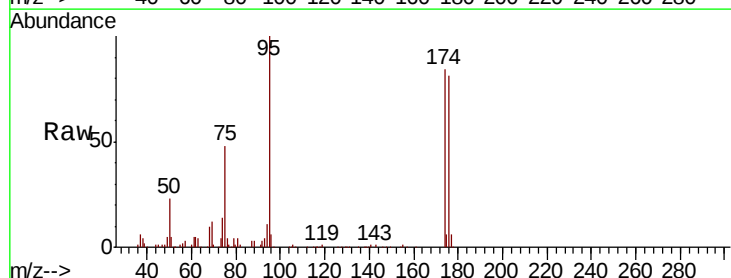
Tgt Ion: 95 Resp: 343984

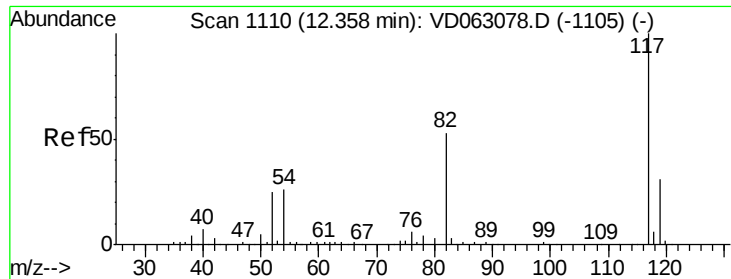
Ion Ratio Lower Upper

95 100

174 83.8 0.0 180.6

176 80.7 0.0 172.2

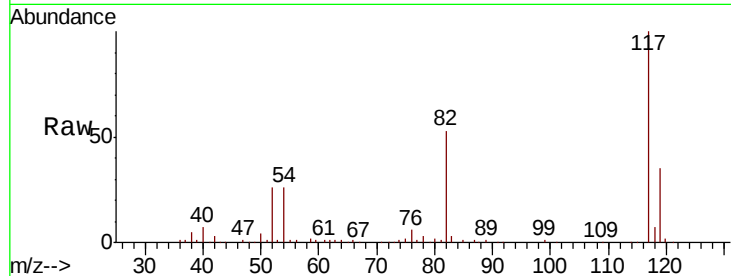




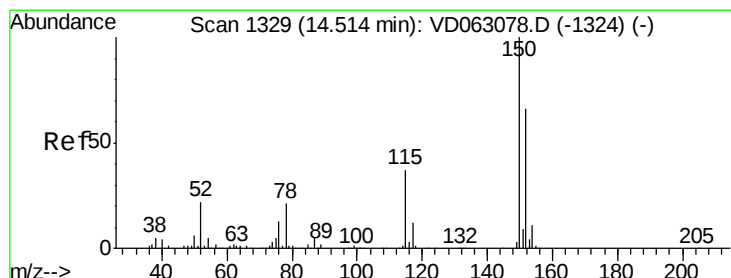
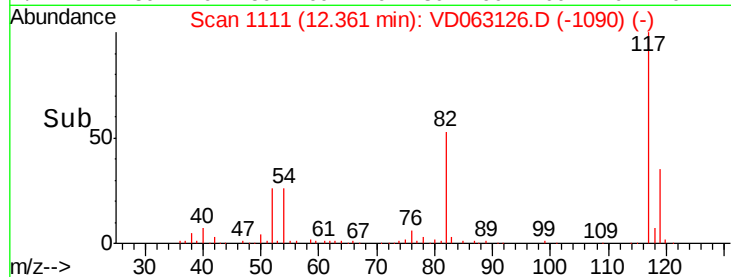
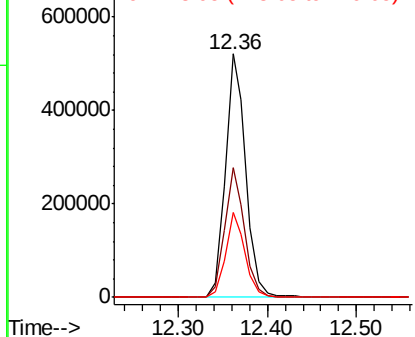
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063126.D
Acq: 17 Jul 2019 12:48

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 835859
Ion Ratio Lower Upper
117 100
82 53.0 42.3 63.5
119 34.7 25.2 37.8

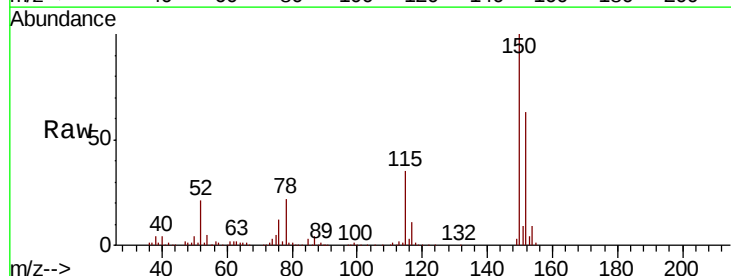


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

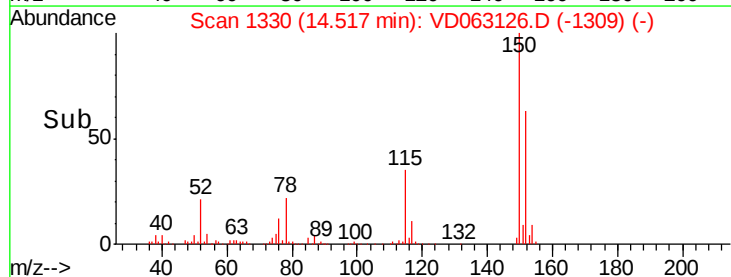
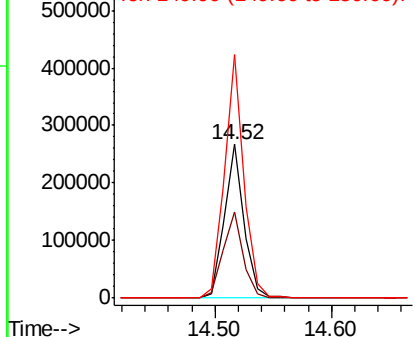


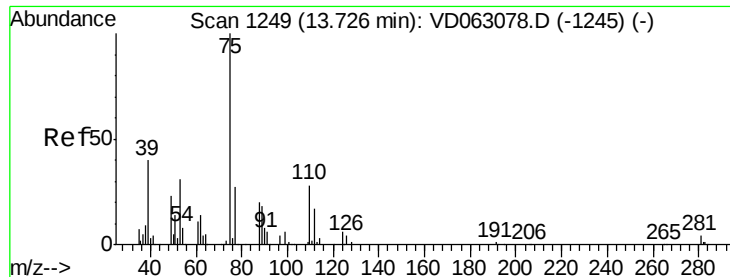
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063126.D
Acq: 17 Jul 2019 12:48

Tgt Ion:152 Resp: 310960
Ion Ratio Lower Upper
152 100
115 55.9 28.9 86.8
150 158.3 0.0 313.8



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





#76

1,2,3-Trichloropropane

Concen: 25.748 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

Instrument :

MSVOA_D

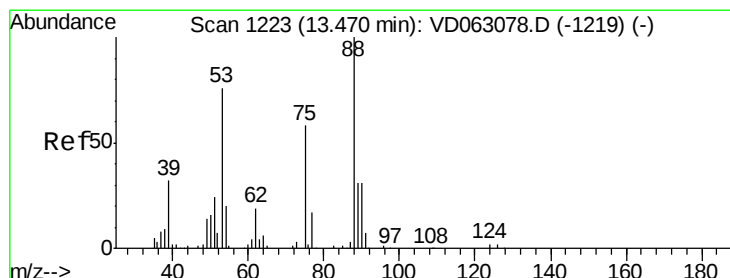
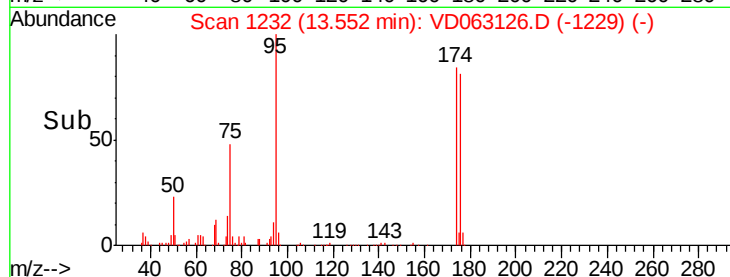
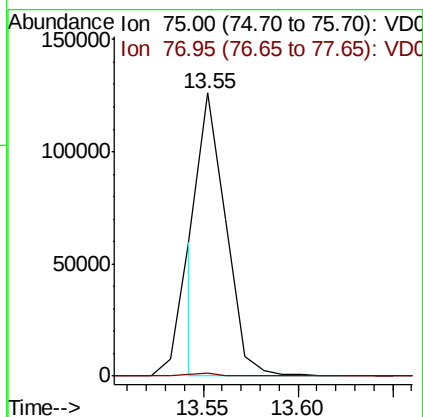
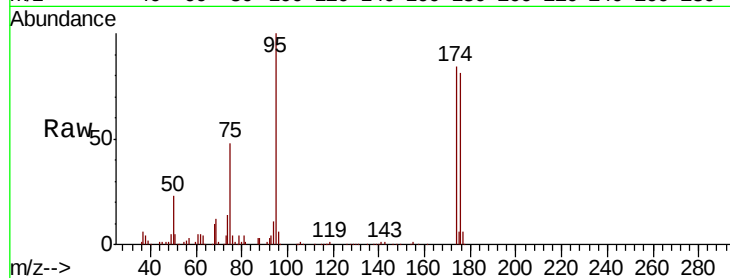
ClientSampleId :

Tot Ion: 75 Resp: 123166

Ion Ratio Lower Upper

75 100

77 1.3 16.3 48.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 129.135 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063126.D

Acq: 17 Jul 2019 12:48

Tgt Ion: 75 Resp: 162666

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

