

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063141.D
 Acq On : 17 Jul 2019 19:46
 Operator : VA/AP
 Sample : K3835-02
 Misc : 5.92g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

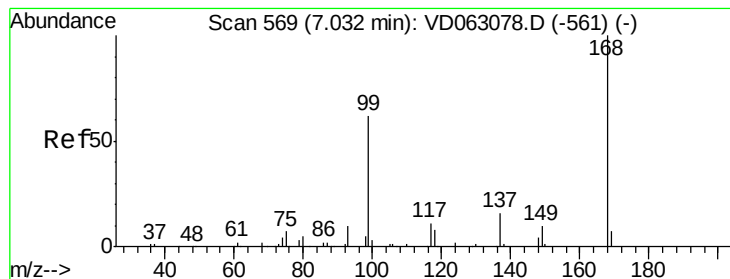
Quant Time: Jul 18 06:59:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	824860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1186289	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1089919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	578169	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	485661	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
35) Dibromofluoromethane	6.92	113	522120	44.19	ug/l	0.00
Spiked Amount			Recovery	=	88.38%	
50) Toluene-d8	10.41	98	1076777	42.43	ug/l	0.00
Spiked Amount			Recovery	=	84.86%	
62) 4-Bromofluorobenzene	13.55	95	498546	42.46	ug/l	0.00
Spiked Amount			Recovery	=	84.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	1045	Below Cal	#	43
3) Chloromethane	1.74	50	601	Below Cal	#	48
5) Bromomethane	2.17	94	2713	Below Cal	#	13
13) Acrolein	3.01	56	179	1.000	ug/l #	38
16) Acetone	3.22	43	15733	6.339	ug/l	92
18) Methyl Acetate	3.67	43	208	Below Cal	#	63
20) Methylene Chloride	3.81	84	10030	1.070	ug/l	88
25) 2-Butanone	6.17	43	5567	2.349	ug/l #	61
31) Cyclohexane	7.04	56	18223	1.863	ug/l #	11
36) 1,1-Dichloropropene	7.03	75	63116	4.731	ug/l #	47
38) Carbon Tetrachloride	7.04	117	83117	4.100	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	237072	101.222	ug/l #	1

(#) = 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. 0.01 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

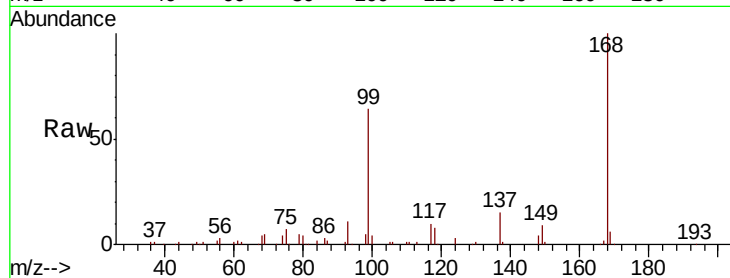
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 824860

Ion Ratio Lower Upper

168 100

99 64.0 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

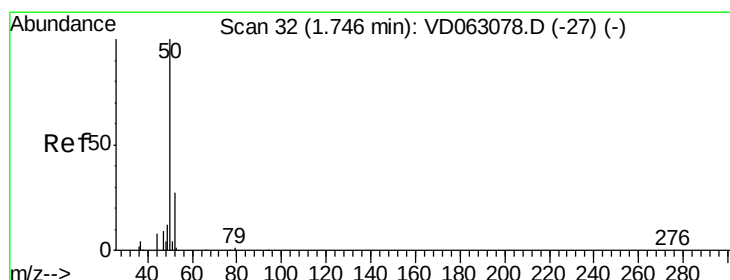
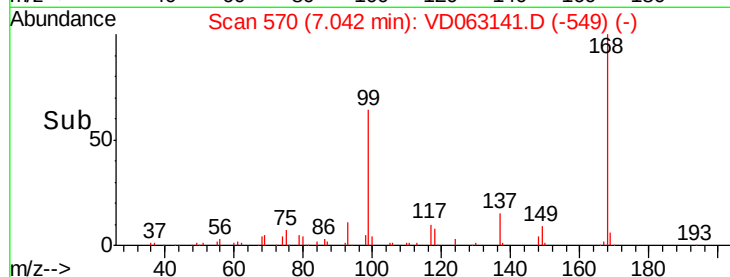
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 31

Delta R.T. -0.01 min

Lab File: VD063141.D

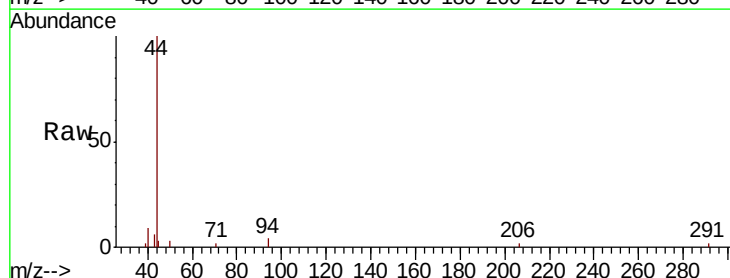
Acq: 17 Jul 2019 19:46

Tgt Ion: 50 Resp: 601

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

600

500

400

300

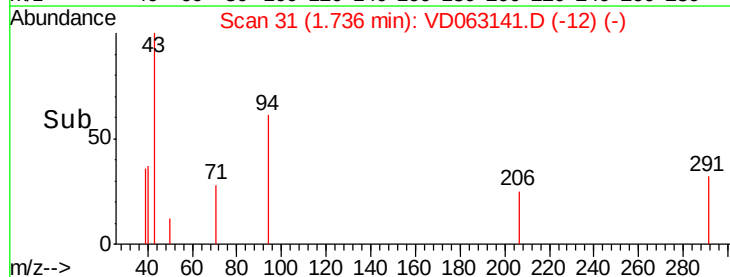
200

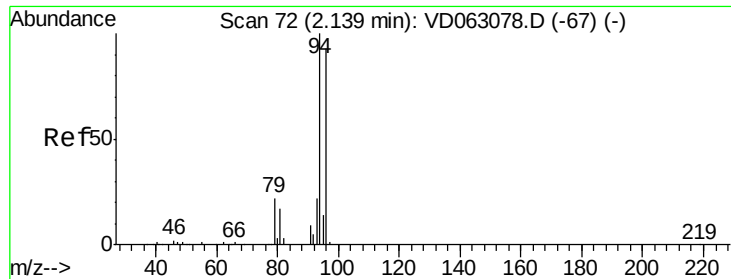
100

0

Time-->

1.70 1.75





#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 75

Delta R.T. 0.03 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

Instrument :

MSVOA_D

ClientSampled :

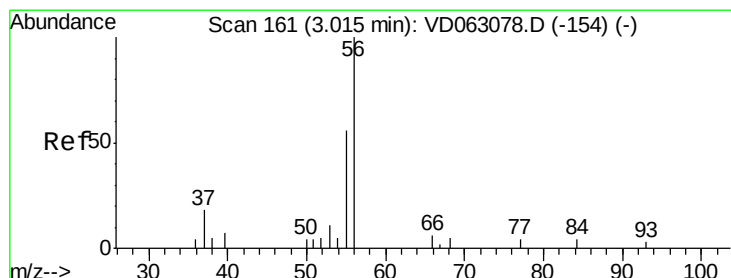
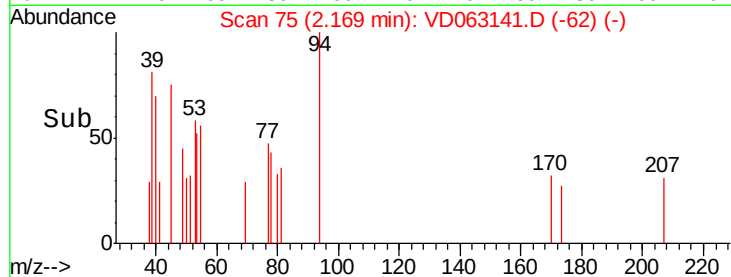
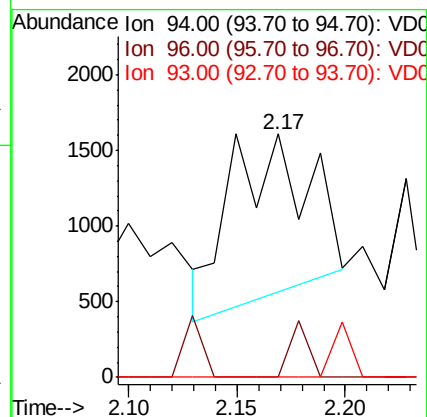
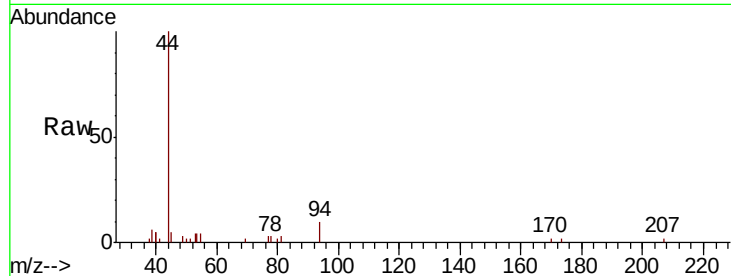
Tot Ion: 94 Resp: 2713

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#13

Acrolein

Concen: 1.000 ug/l

RT: 3.01 min Scan# 160

Delta R.T. -0.01 min

Lab File: VD063141.D

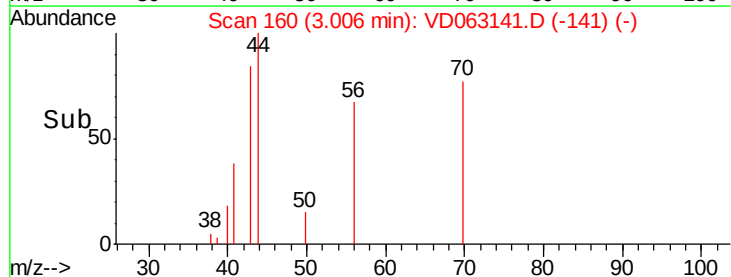
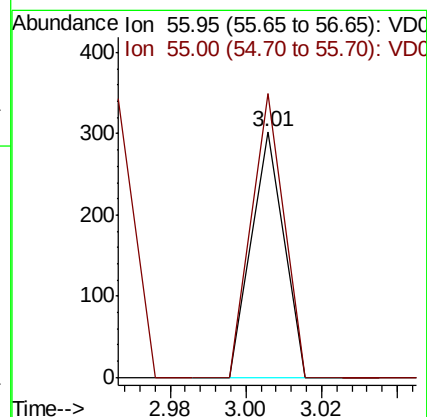
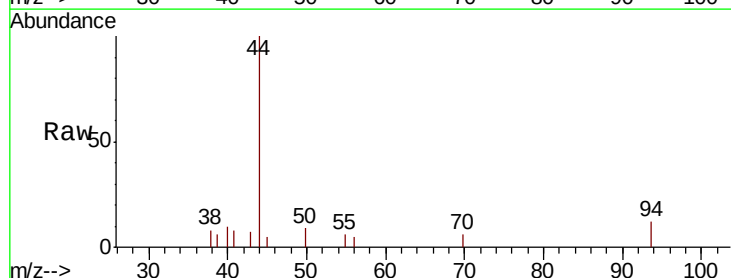
Acq: 17 Jul 2019 19:46

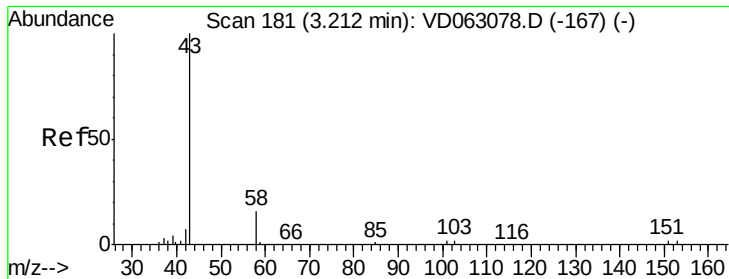
Tgt Ion: 56 Resp: 179

Ion Ratio Lower Upper

56 100

55 115.2 53.0 79.4#





#16

Acetone

Concen: 6.339 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

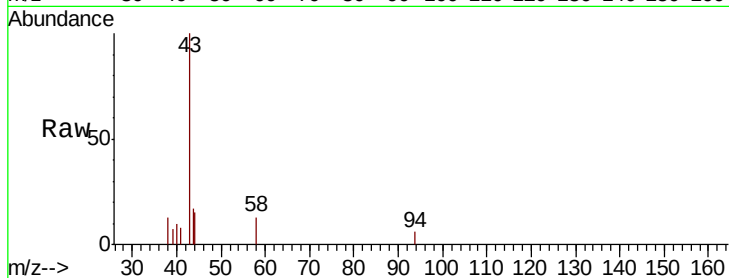
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 15733

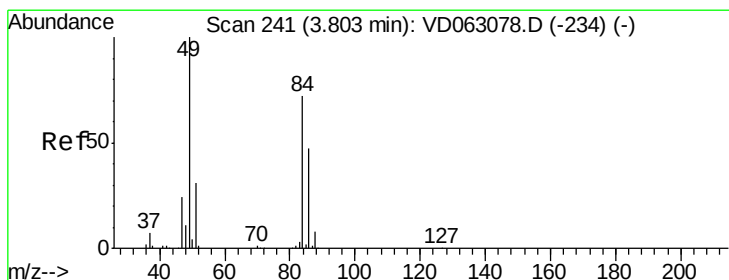
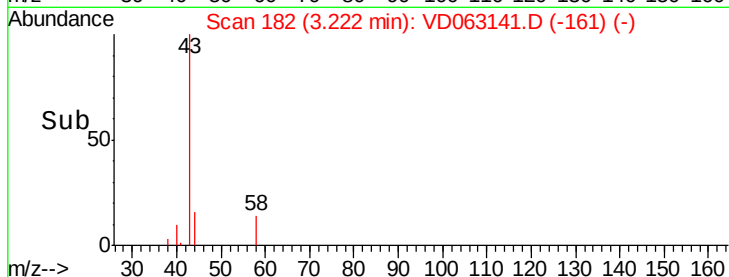
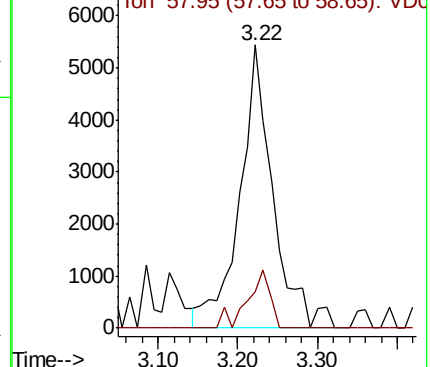
Ion Ratio Lower Upper

43 100

58 13.0 13.0 19.4



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



#20

Methylene Chloride

Concen: 1.070 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

Tgt Ion: 84 Resp: 10030

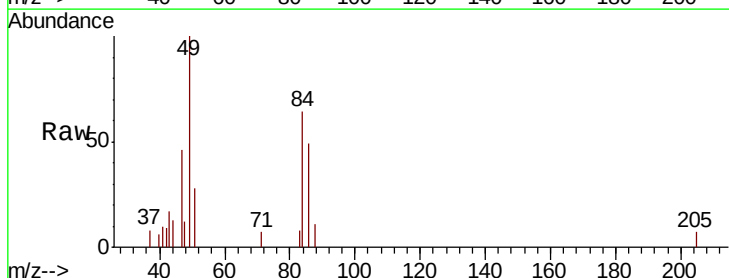
Ion Ratio Lower Upper

84 100

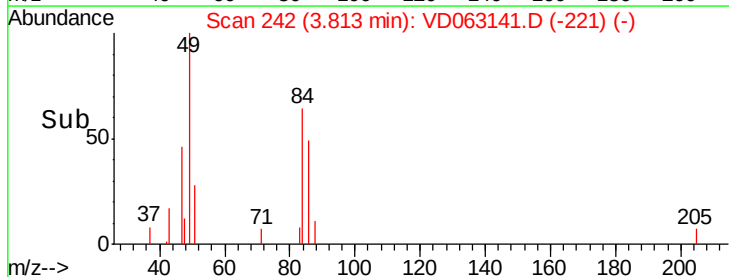
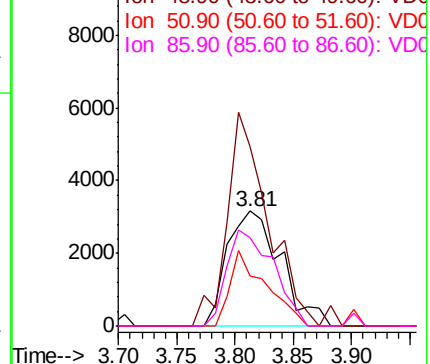
49 156.2 110.5 165.7

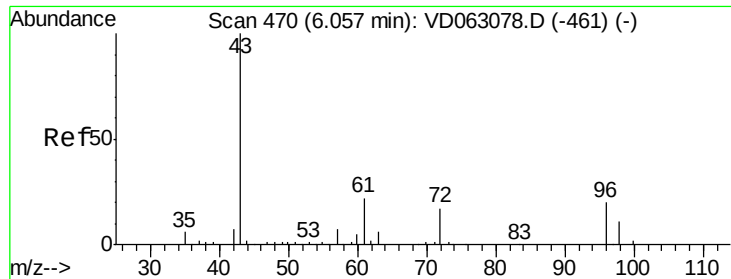
51 43.2 34.6 51.8

86 76.7 51.6 77.4



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





#25

2-Butanone

Concen: 2.349 ug/l

RT: 6.17 min Scan# 481

Delta R.T. 0.11 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

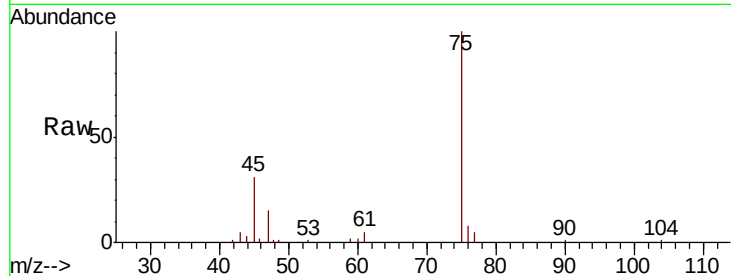
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 5567

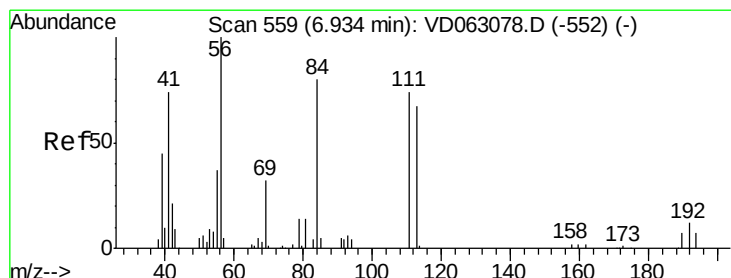
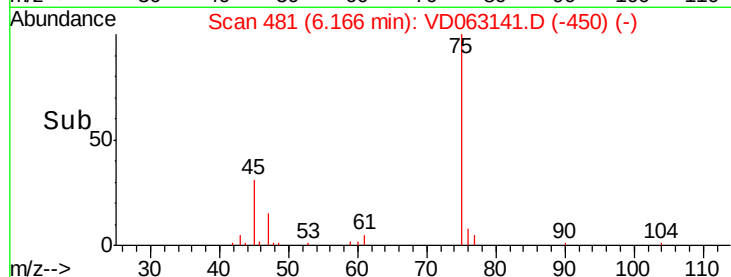
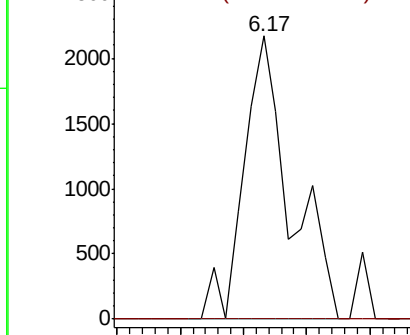
Ion Ratio Lower Upper

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: 1.863 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.11 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

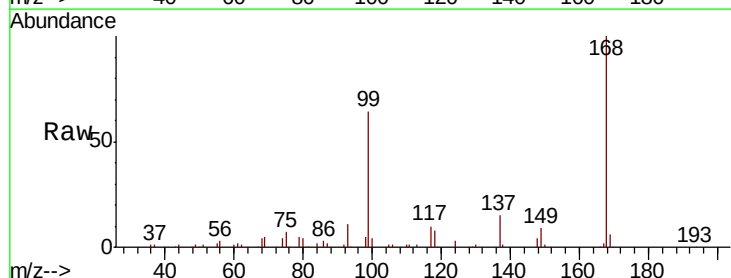
Tgt Ion: 56 Resp: 18223

Ion Ratio Lower Upper

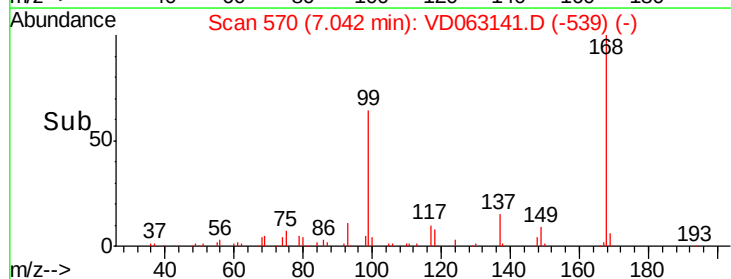
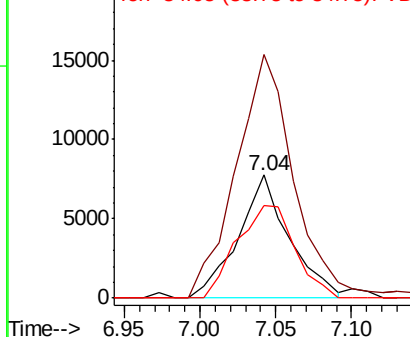
56 100

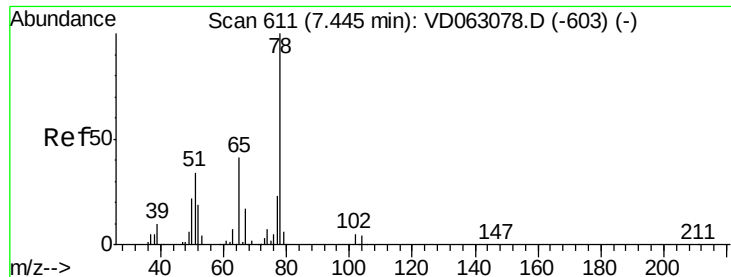
69 198.2 25.3 37.9#

84 74.9 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

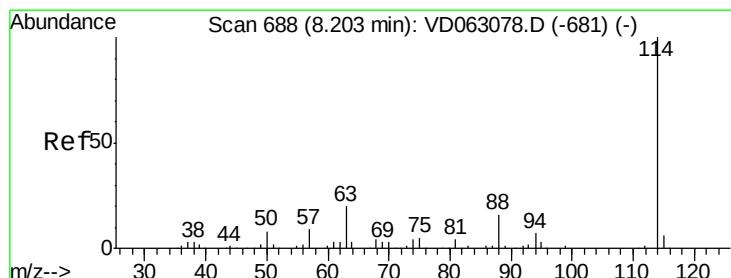
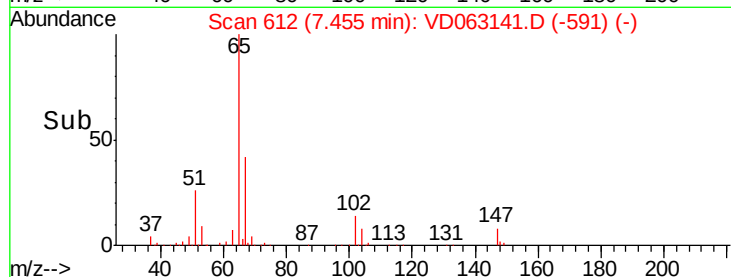
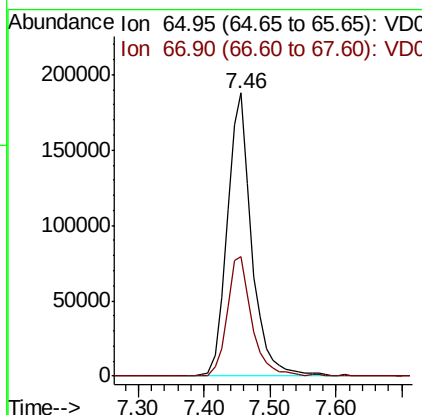
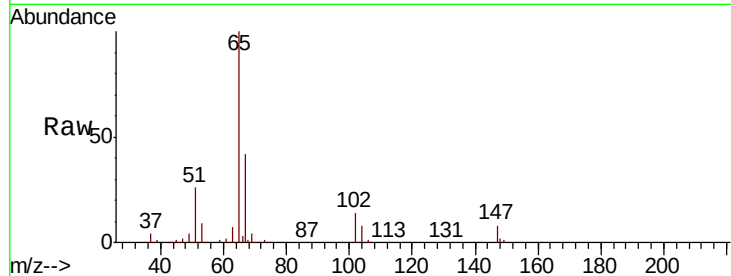




#33
 1,2-Dichloroethane-d4
 Concen: 47.265 ug/l
 RT: 7.46 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063141.D
 Acq: 17 Jul 2019 19:46

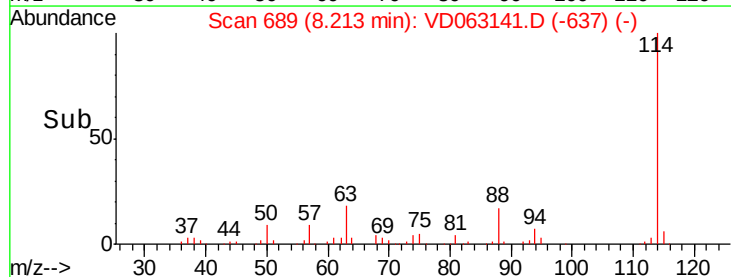
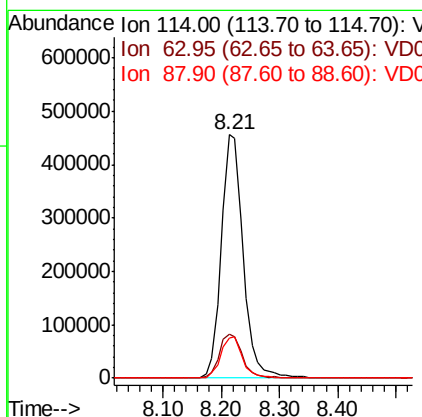
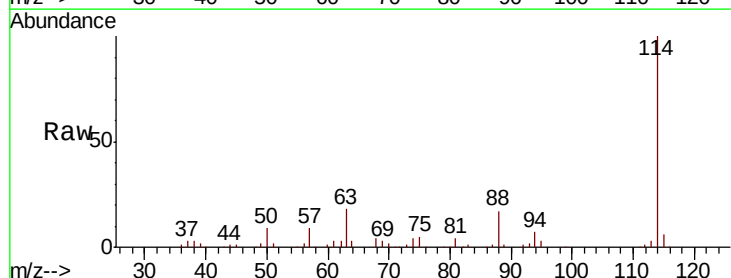
Instrument :
 MSVOA_D
 ClientSampled :

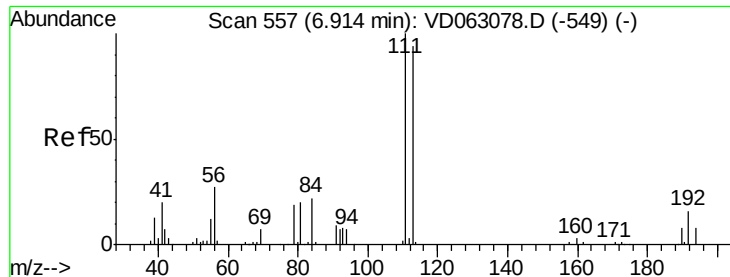
Tot Ion: 65 Resp: 485661
 Ion Ratio Lower Upper
 65 100
 67 42.5 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.01 min
 Lab File: VD063141.D
 Acq: 17 Jul 2019 19:46

Tgt Ion: 114 Resp: 1186289
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 40.6
 88 16.7 0.0 32.6

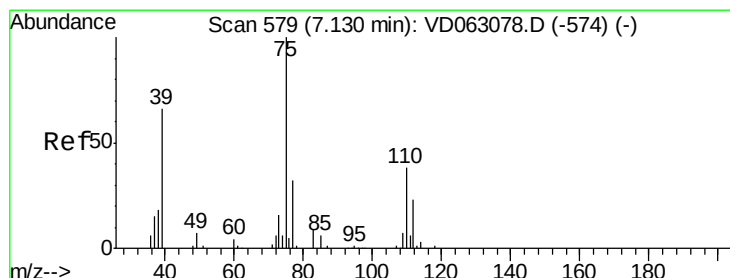
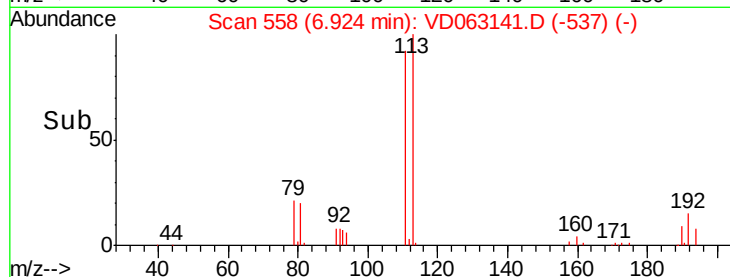
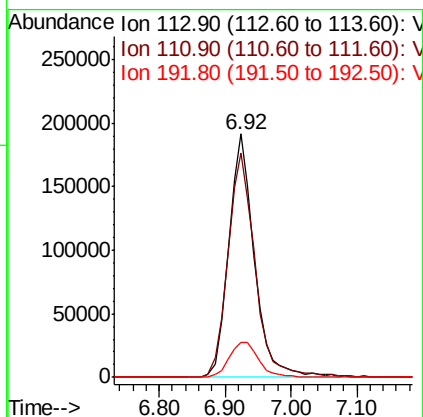
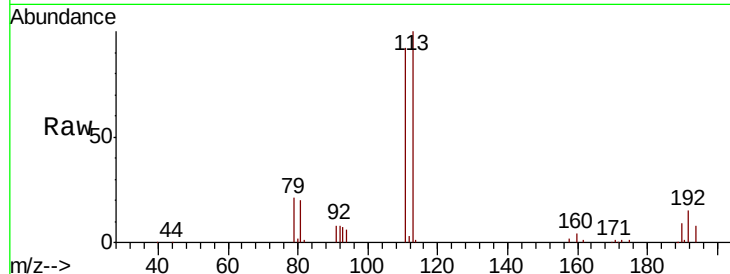




#35
 Dibromofluoromethane
 Concen: 44.189 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD063141.D
 Acq: 17 Jul 2019 19:46

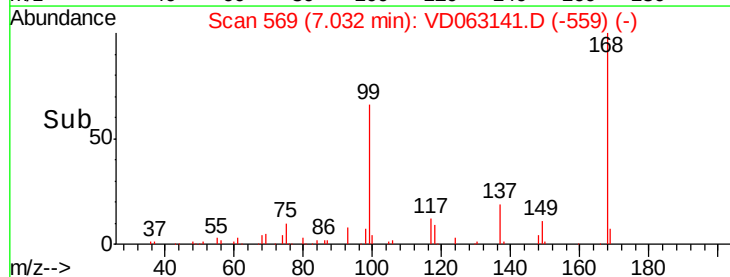
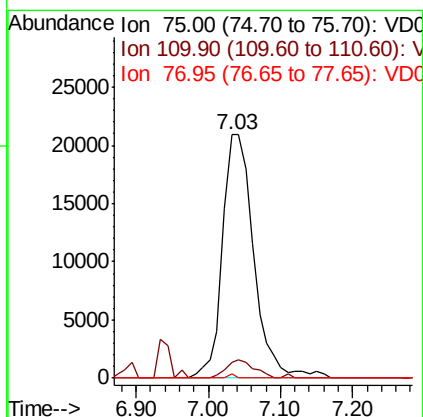
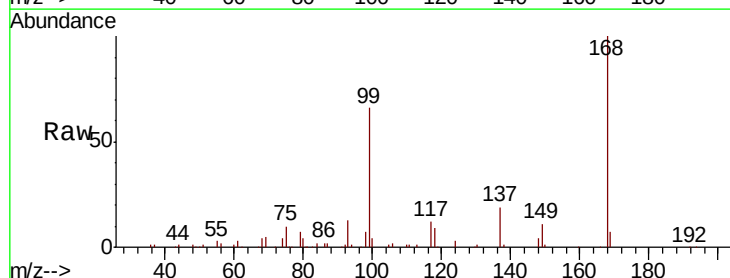
Instrument :
 MSVOA_D
 ClientSampleId :

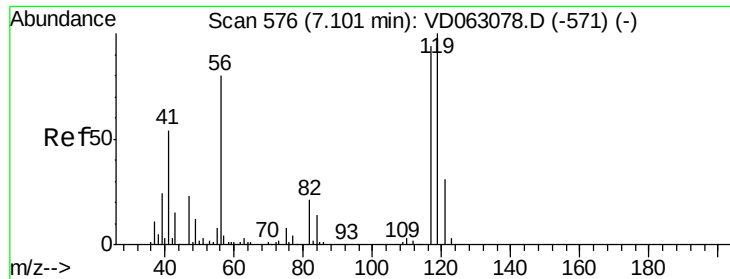
Tot Ion:113 Resp: 522120
 Ion Ratio Lower Upper
 113 100
 111 92.0 84.8 127.2
 192 14.6 13.4 20.0



#36
 1,1-Dichloropropene
 Concen: 4.731 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.10 min
 Lab File: VD063141.D
 Acq: 17 Jul 2019 19:46

Tgt Ion: 75 Resp: 63116
 Ion Ratio Lower Upper
 75 100
 110 6.4 18.9 56.5#
 77 1.5 25.2 37.8#

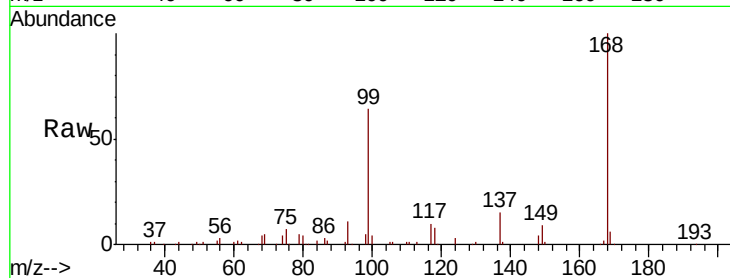




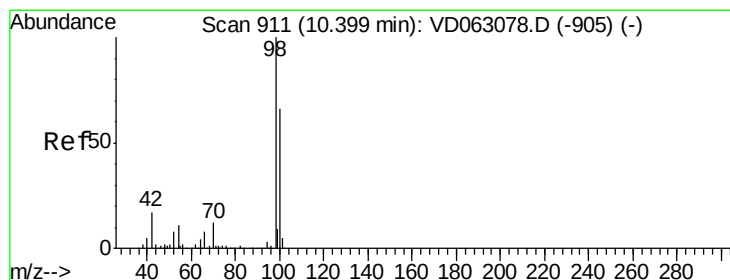
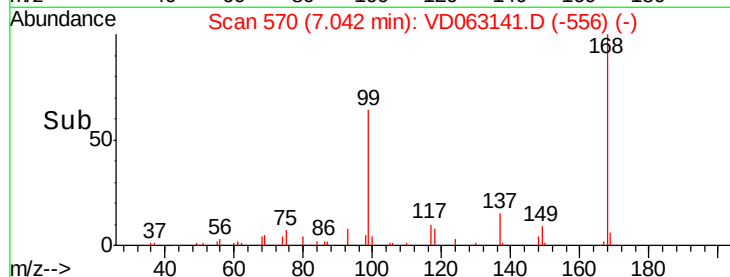
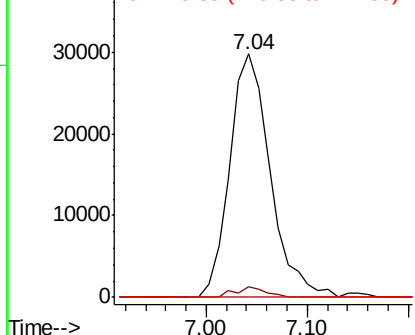
#38
Carbon Tetrachloride
Concen: 4.100 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.06 min
Lab File: VD063141.D
Acq: 17 Jul 2019 19:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 83117
Ion Ratio Lower Upper
117 100
119 4.6 80.0 120.0#
121 0.0 25.0 37.4#

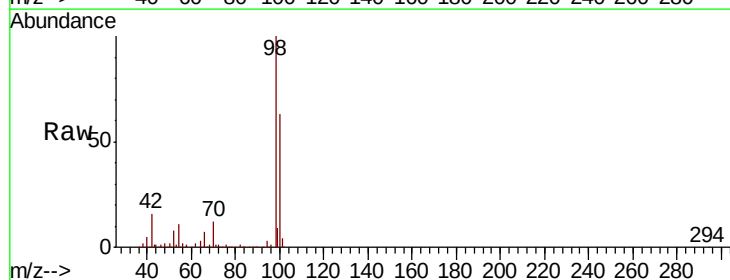


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

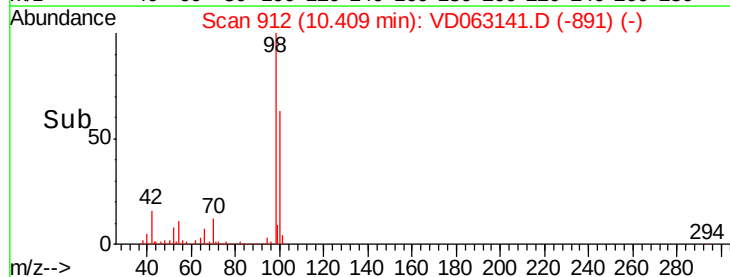
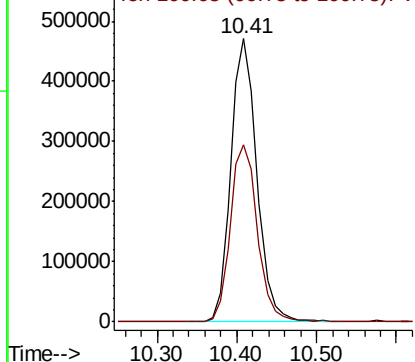


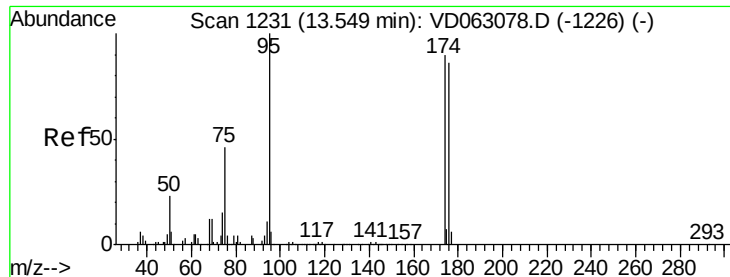
#50
Toluene-d8
Concen: 42.426 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063141.D
Acq: 17 Jul 2019 19:46

Tgt Ion: 98 Resp: 1076777
Ion Ratio Lower Upper
98 100
100 62.7 53.5 80.3



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





#62

4-Bromofluorobenzene

Concen: 42.459 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

Instrument :

MSVOA_D

ClientSampleId :

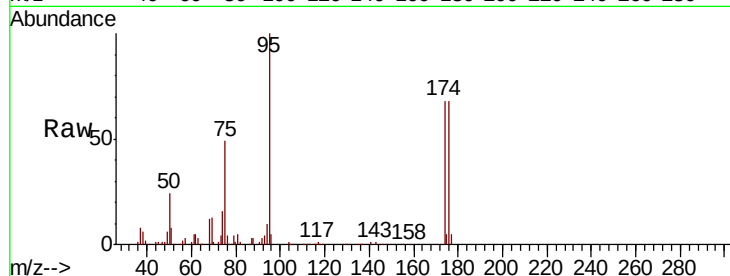
Tot Ion: 95 Resp: 498546

Ion Ratio Lower Upper

95 100

174 67.6 0.0 180.6

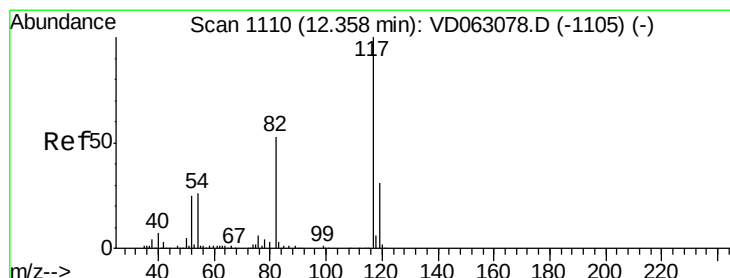
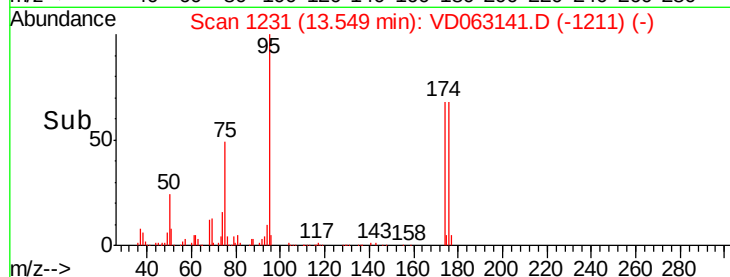
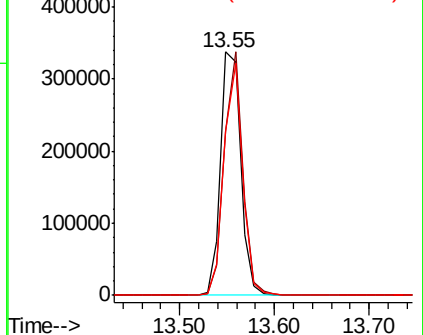
176 67.6 0.0 172.2



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: 12.37 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VD063141.D

Acq: 17 Jul 2019 19:46

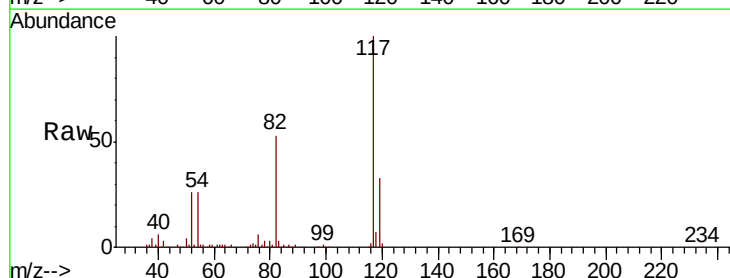
Tgt Ion: 117 Resp: 1089919

Ion Ratio Lower Upper

117 100

82 52.6 42.3 63.5

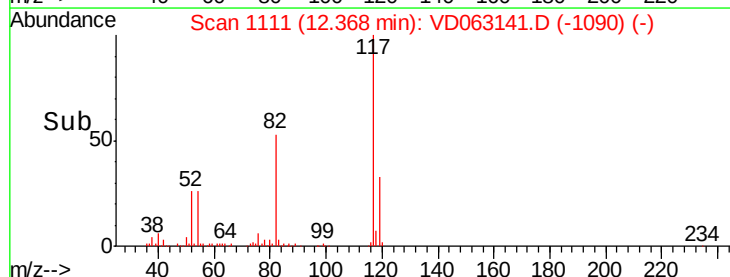
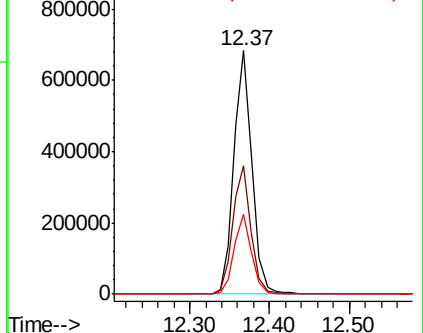
119 32.6 25.2 37.8

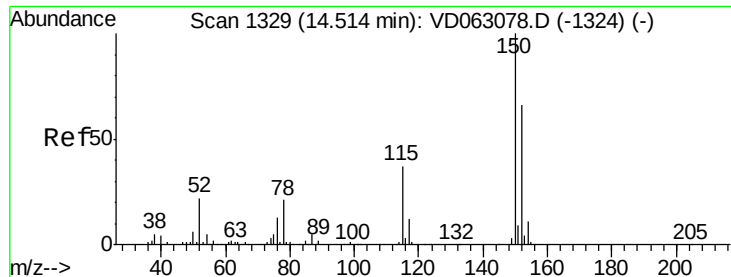


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

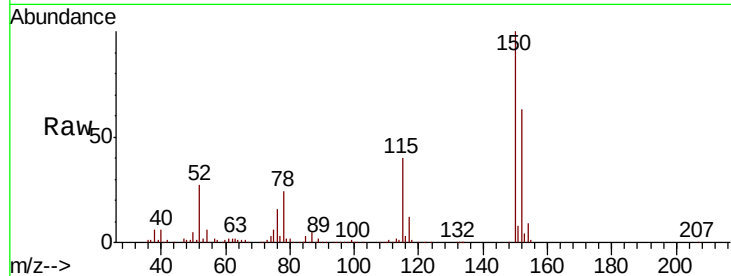




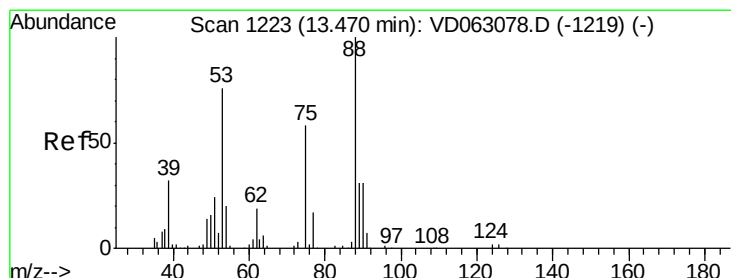
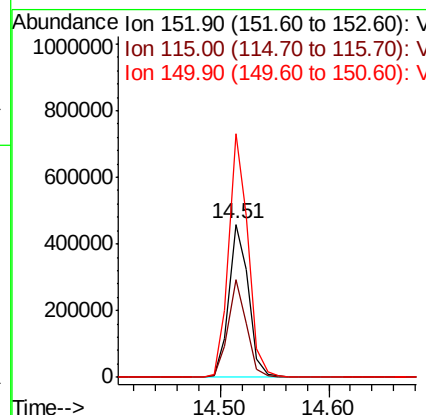
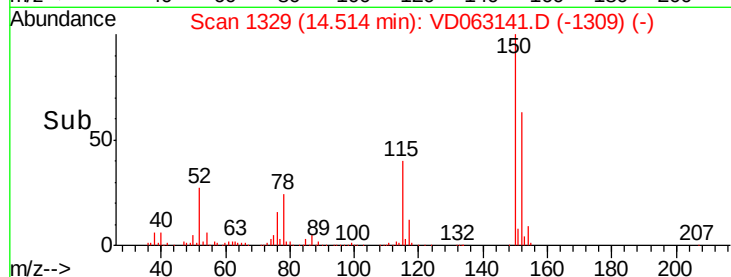
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1329
 Delta R.T. 0.00 min
 Lab File: VD063141.D
 Acq: 17 Jul 2019 19:46

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:152 Resp: 578169
 Ion Ratio Lower Upper
 152 100
 115 63.6 28.9 86.8
 150 159.3 0.0 313.8

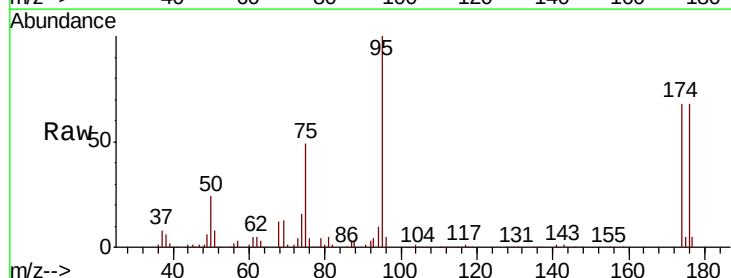


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.222 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. 0.08 min
 Lab File: VD063141.D
 Acq: 17 Jul 2019 19:46

Tgt Ion: 75 Resp: 237072
 Ion Ratio Lower Upper
 75 100
 53 0.0 104.4 156.6#
 89 0.0 43.1 64.7#



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

