

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081419\
 Data File : VD063589.D
 Acq On : 14 Aug 2019 22:08
 Operator : JC/SY
 Sample : K4324-06RE
 Misc : 5.63g/5ml/MSVOA D/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 15 12:03:23 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	7.04	168	574188	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	860159	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	437076	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	73428	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	390146	63.57	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	127.14%	
35) Dibromofluoromethane	6.92	113	396460	54.73	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	109.46%	
50) Toluene-d8	10.41	98	439920	27.62	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	55.24%	
62) 4-Bromofluorobenzene	13.56	95	126302	17.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	35.00%	

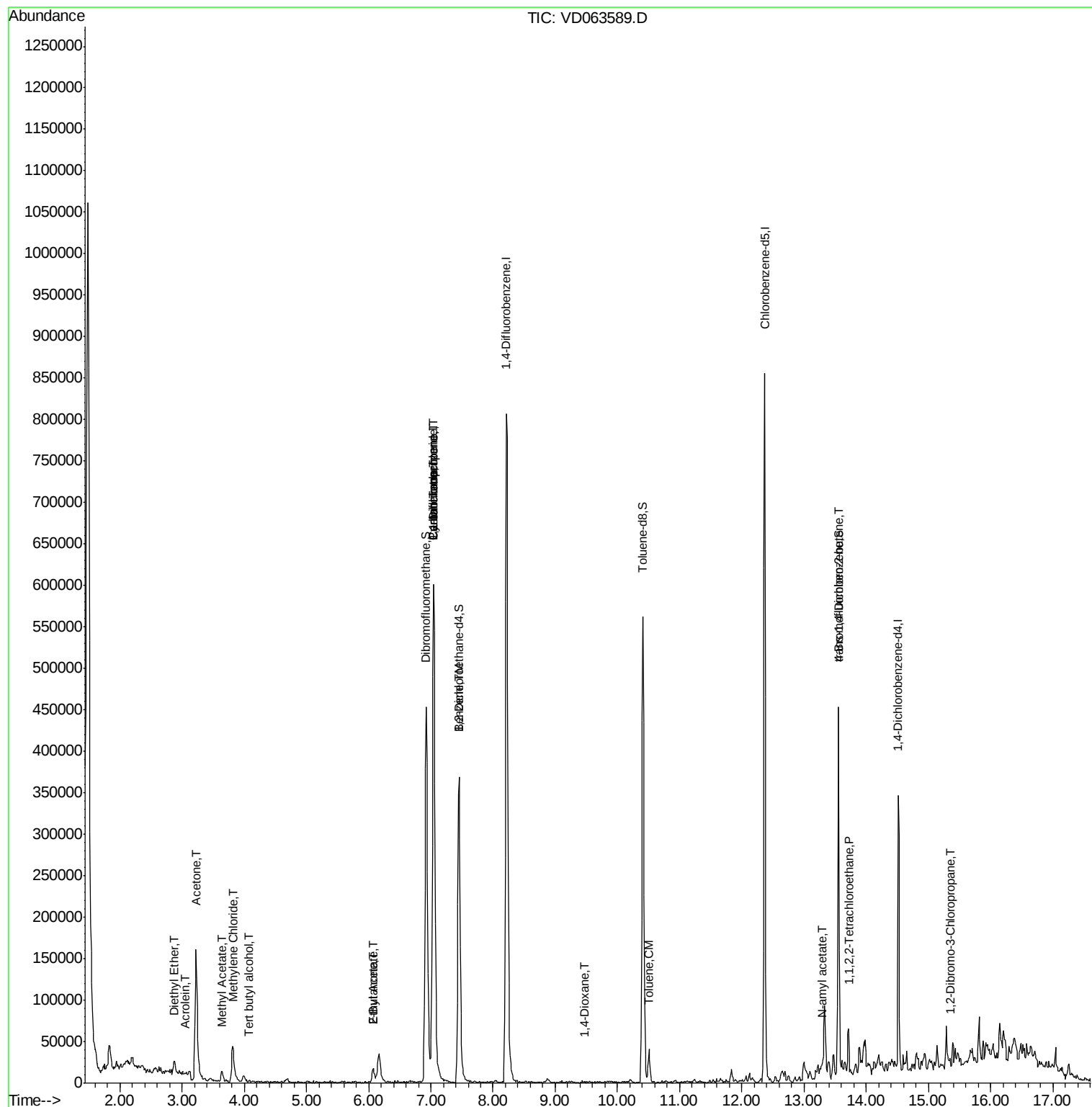
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.88	74	7058	4.730	ug/l	59
11) Tert butyl alcohol	4.07	59	2219	8.305	ug/l #	71
13) Acrolein	3.04	56	684	2.601	ug/l #	42
16) Acetone	3.22	43	300870	241.148	ug/l	98
18) Methyl Acetate	3.65	43	22364	9.463	ug/l #	89
20) Methylene Chloride	3.81	84	27819	5.156	ug/l	89
25) 2-Butanone	6.08	43	37776	30.657	ug/l	96
31) Cyclohexane	7.04	56	12927	2.333	ug/l #	6
36) 1,1-Dichloropropene	7.04	75	49318	6.486	ug/l #	49
37) Ethyl Acetate	6.08	43	37775	11.855	ug/l #	73
38) Carbon Tetrachloride	7.04	117	58739	5.126	ug/l #	17
40) Benzene	7.46	78	35478	2.120	ug/l	99
49) 1,4-Dioxane	9.46	88	192	31.985	ug/l #	34
52) Toluene	10.51	92	16256	1.508	ug/l #	73
74) N-amyl acetate	13.28	43	5095	4.346	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	13.72	83	4630	5.973	ug/l #	58
81) trans-1,4-Dichloro-2-buten	13.55	75	53117	234.514	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.35	75	181	1.240	ug/l #	1

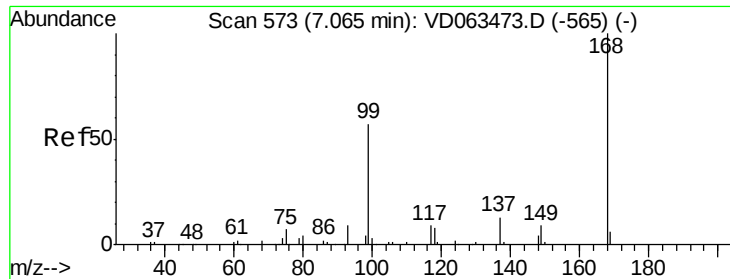
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

Instrument :

MSVOA_D

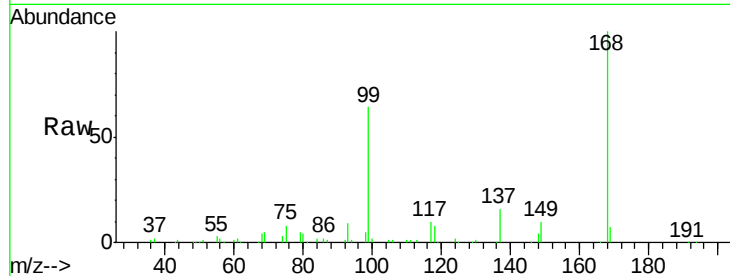
ClientSampleId :

Tot Ion:168 Resp: 574188

Ion Ratio Lower Upper

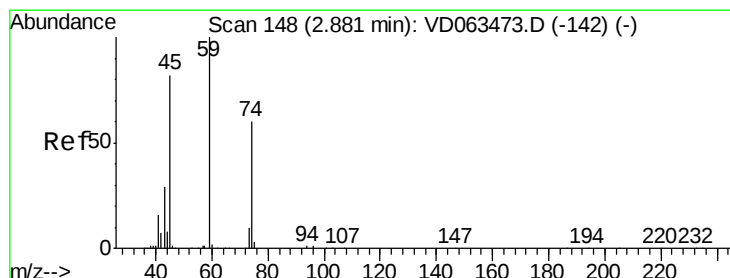
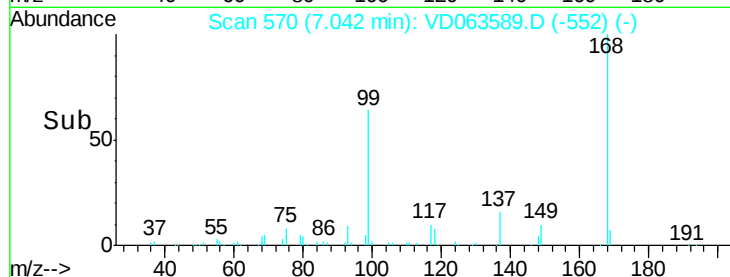
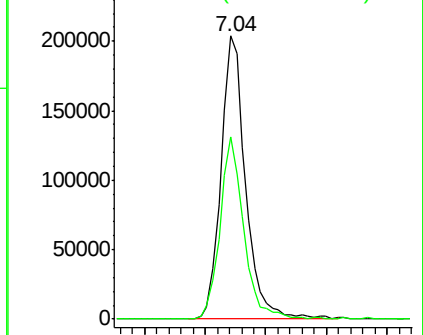
168 100

99 64.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 4.730 ug/l

RT: 2.88 min Scan# 147

Delta R.T. -0.00 min

Lab File: VD063589.D

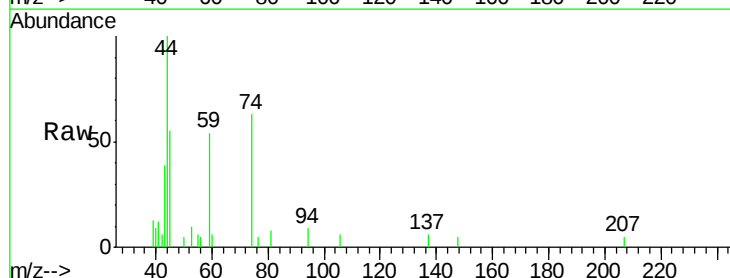
Acq: 14 Aug 2019 22:08

Tgt Ion: 74 Resp: 7058

Ion Ratio Lower Upper

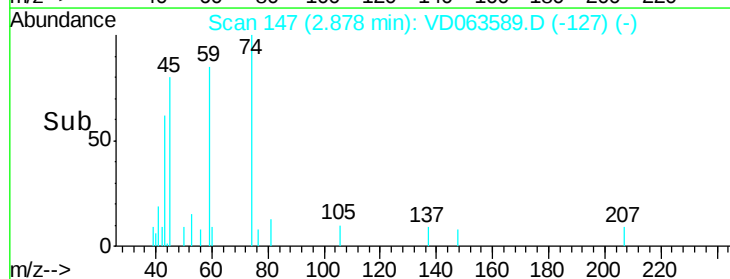
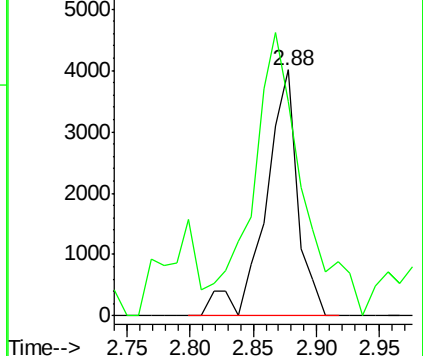
74 100

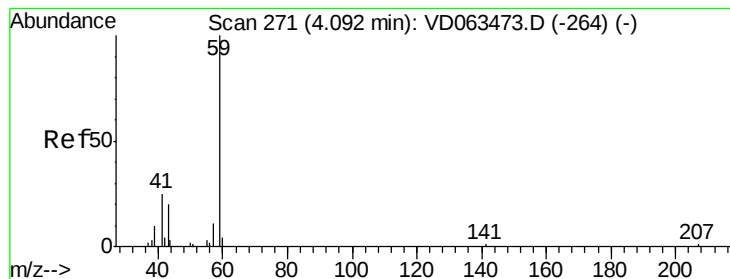
45 87.2 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



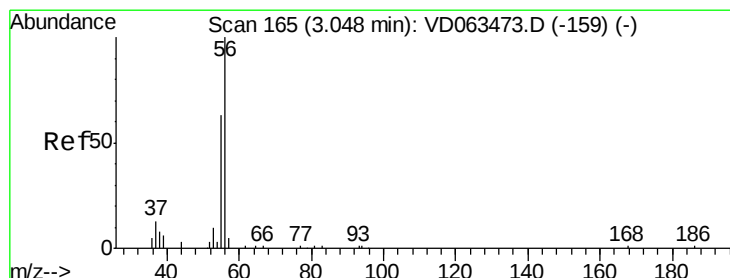
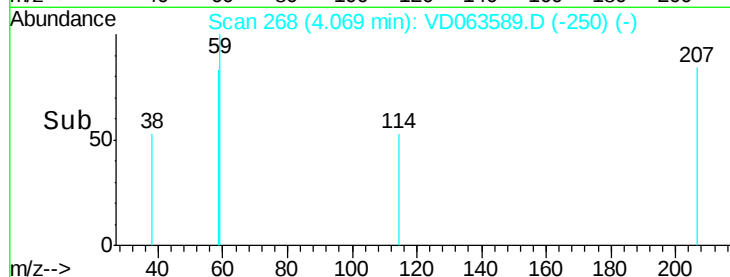
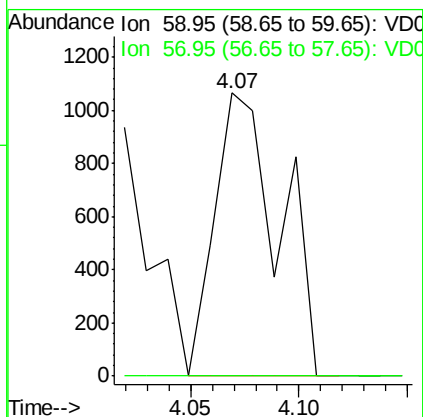
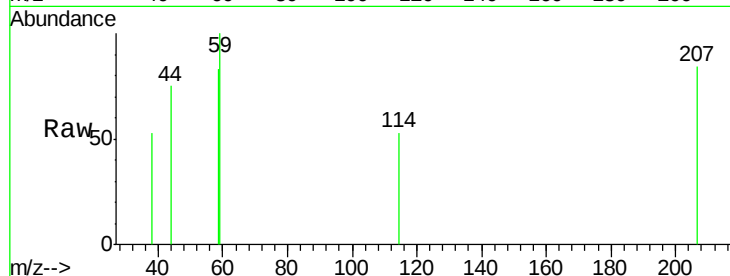


#11

Tert butyl alcohol
Concen: 8.305 ug/l
RT: 4.07 min Scan# 268
Delta R.T. -0.02 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

Instrument :
MSVOA_D
ClientSampled :

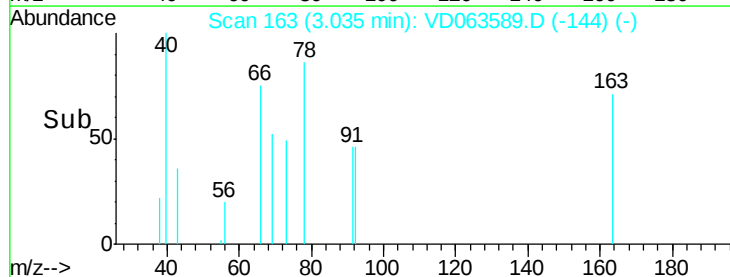
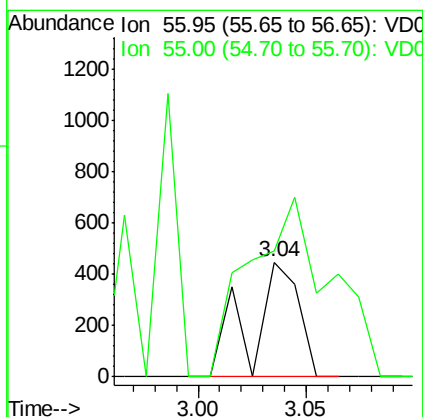
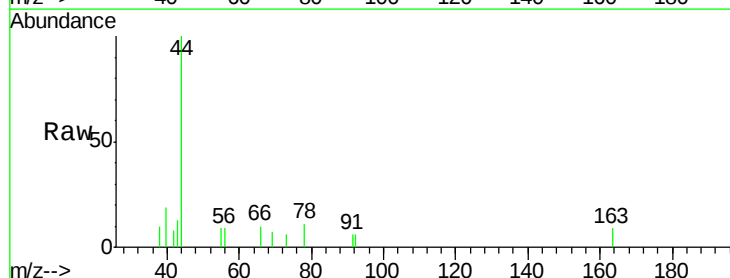
Tot Ion: 59 Resp: 2219
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

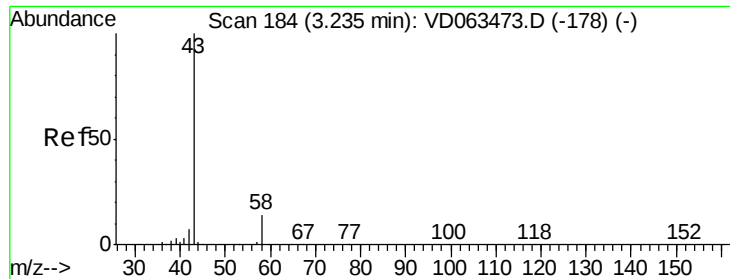


#13

Acrolein
Concen: 2.601 ug/l
RT: 3.04 min Scan# 163
Delta R.T. -0.01 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

Tgt Ion: 56 Resp: 684
Ion Ratio Lower Upper
56 100
55 109.2 51.3 76.9#





#16

Acetone

Concen: 241.148 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

Instrument :

MSVOA_D

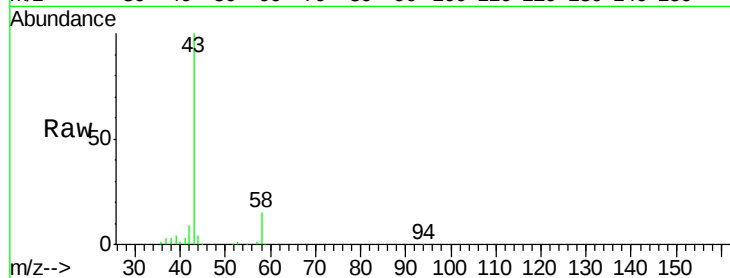
ClientSampleId :

Tot Ion: 43 Resp: 300870

Ion Ratio Lower Upper

43 100

58 14.9 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

120000

100000

80000

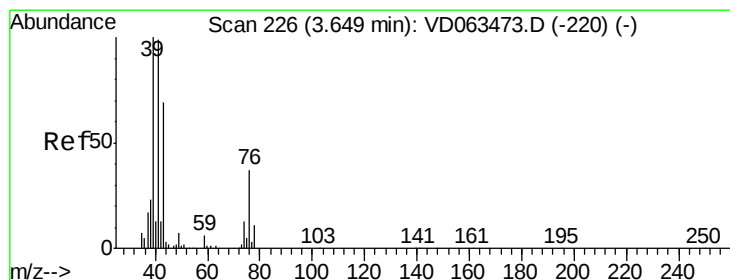
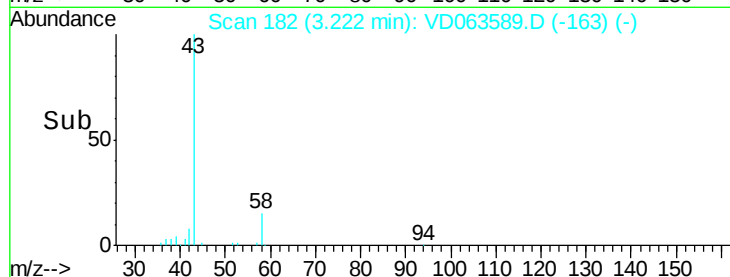
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 9.463 ug/l

RT: 3.65 min Scan# 225

Delta R.T. -0.00 min

Lab File: VD063589.D

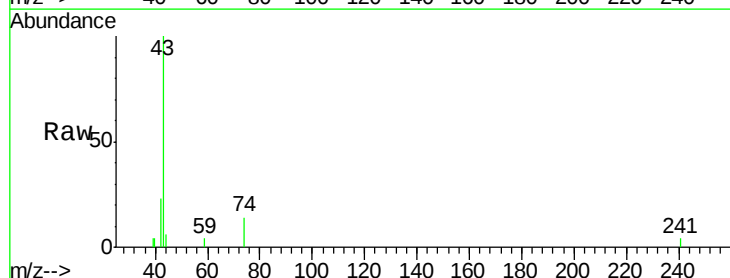
Acq: 14 Aug 2019 22:08

Tgt Ion: 43 Resp: 22364

Ion Ratio Lower Upper

43 100

74 14.2 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.65

10000

8000

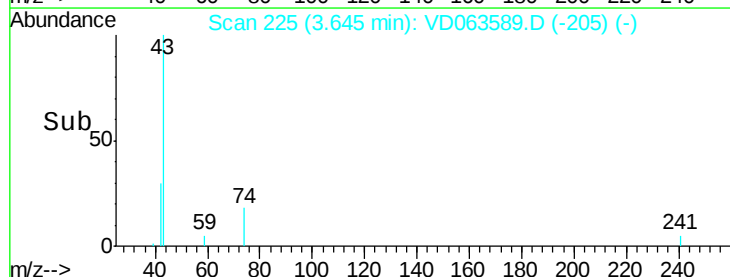
6000

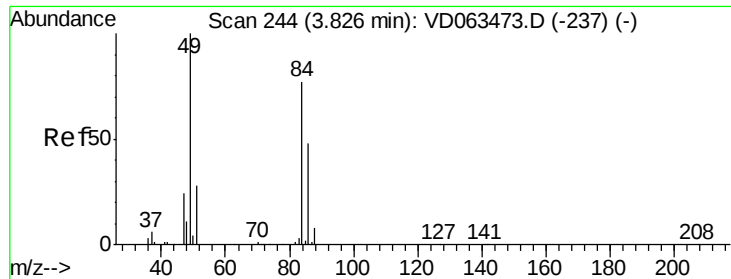
4000

2000

0

Time-->

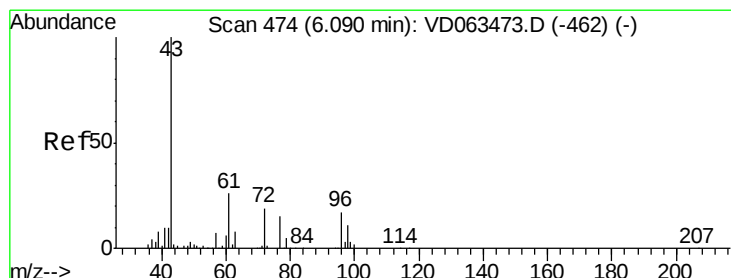
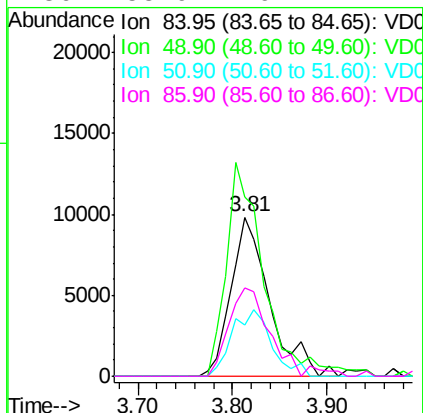
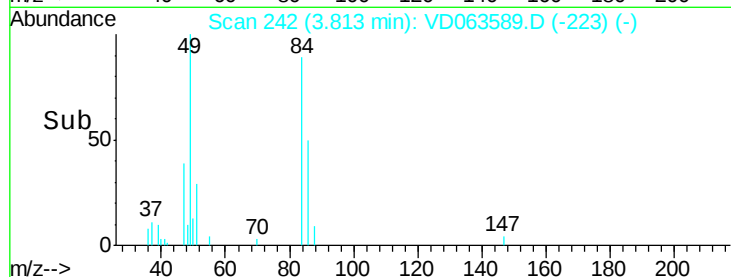
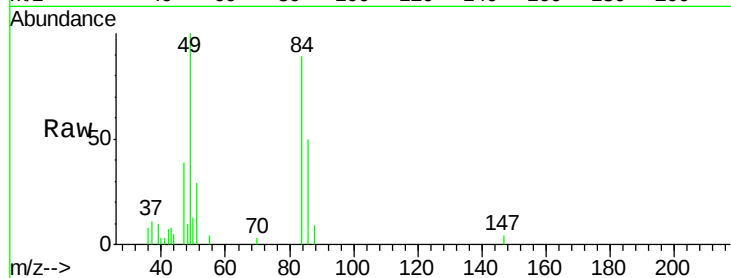




#20
Methvlene Chloride
Concen: 5.156 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

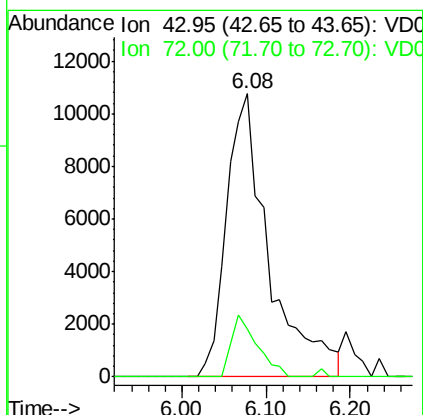
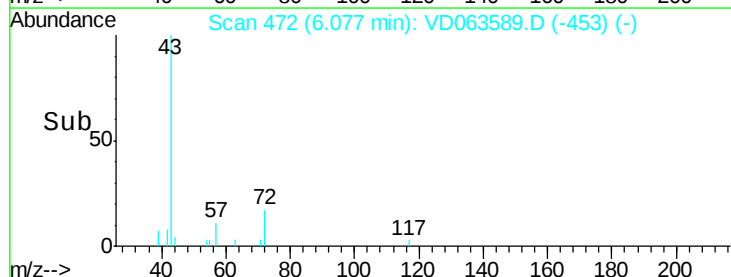
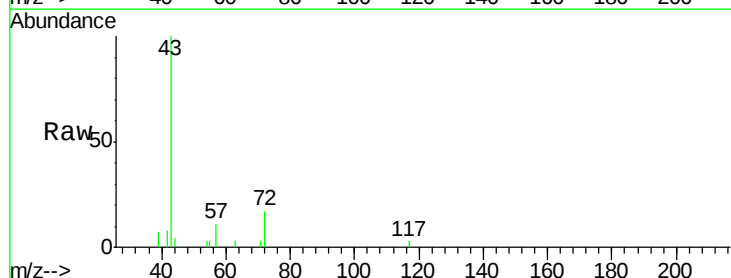
Instrument :
MSVOA_D
ClientSampleId :

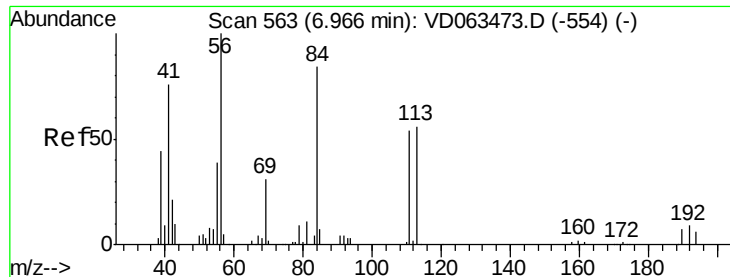
Tot Ion:	84	Resp:	27819
Ion	Ratio	Lower	Upper
84	100		
49	113.0	103.4	155.2
51	32.4	28.5	42.7
86	55.9	49.4	74.2



#25
2-Butanone
Concen: 30.657 ug/l
RT: 6.08 min Scan# 472
Delta R.T. -0.01 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

Tgt Ion:	43	Resp:	37776
Ion	Ratio	Lower	Upper
43	100		
72	17.0	15.1	22.7

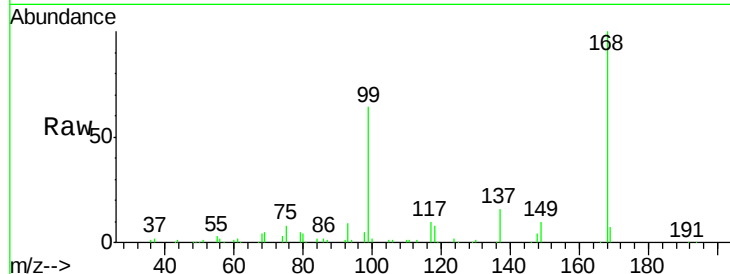




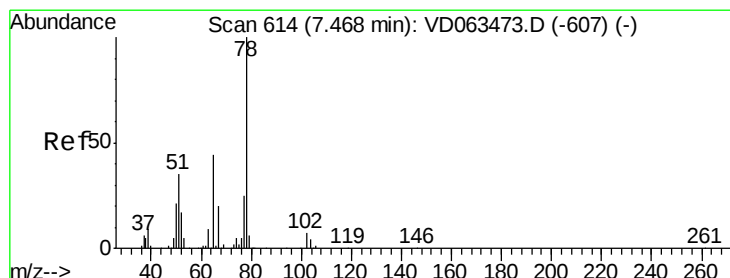
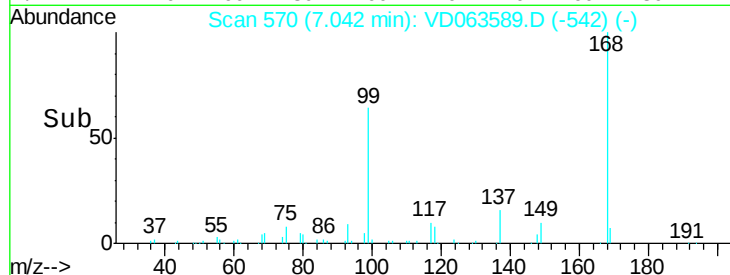
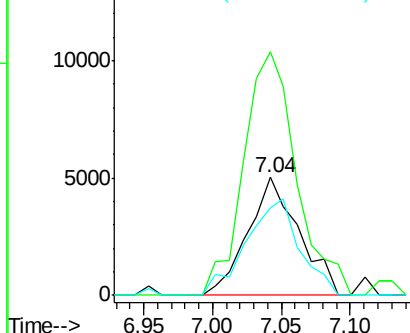
#31
Cyclohexane
Concen: 2.333 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.08 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 12927
Ion Ratio Lower Upper
56 100
69 206.1 25.0 37.6#
84 73.6 69.7 104.5

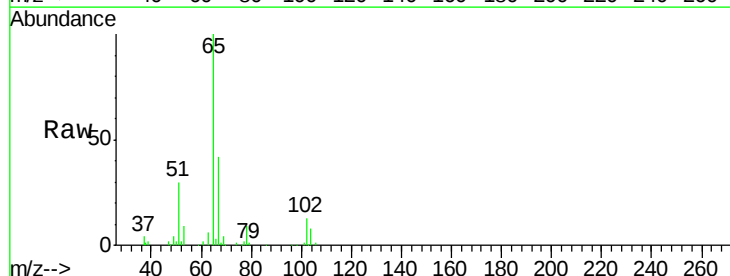


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

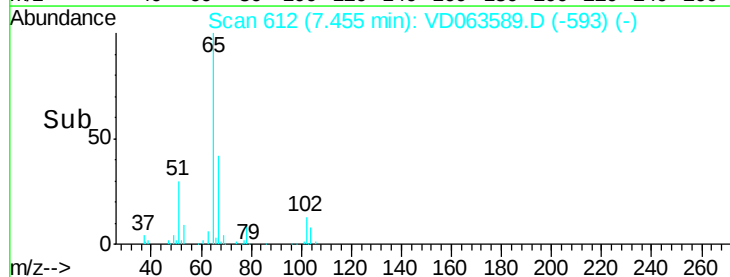
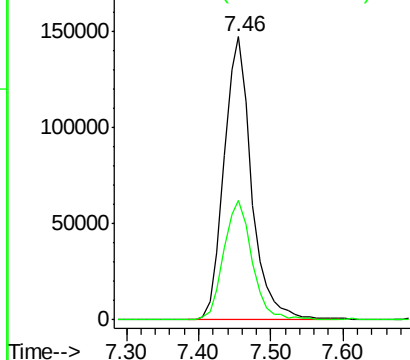


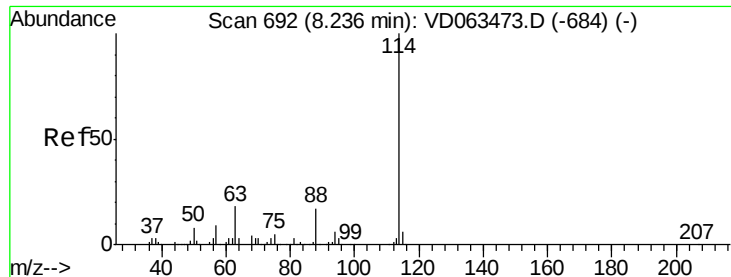
#33
1,2-Dichloroethane-d4
Concen: 63.566 ug/l
RT: 7.46 min Scan# 612
Delta R.T. -0.01 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

Tgt Ion: 65 Resp: 390146
Ion Ratio Lower Upper
65 100
67 42.1 0.0 89.2



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: 8.21 min Scan# 689

Delta R.T. -0.02 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

Instrument :

MSVOA_D

ClientSampleId :

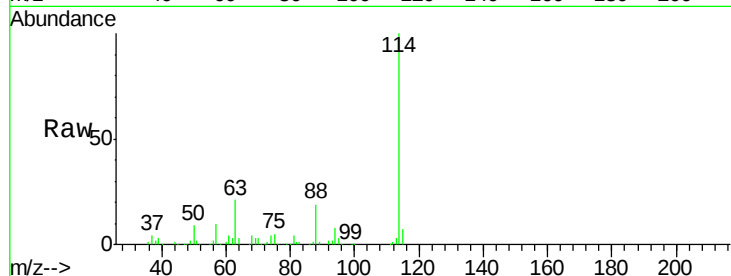
Tot Ion:114 Resp: 860159

Ion Ratio Lower Upper

114 100

63 20.7 0.0 36.2

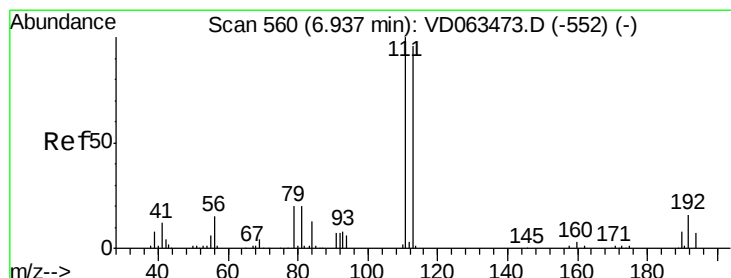
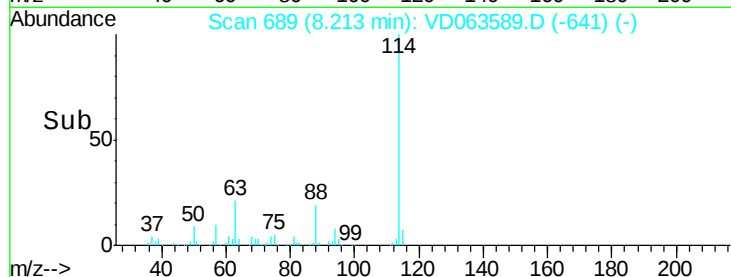
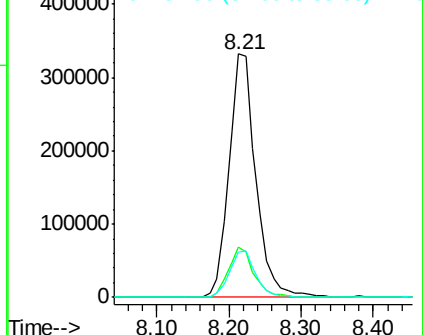
88 18.7 0.0 35.0



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: 54.727 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

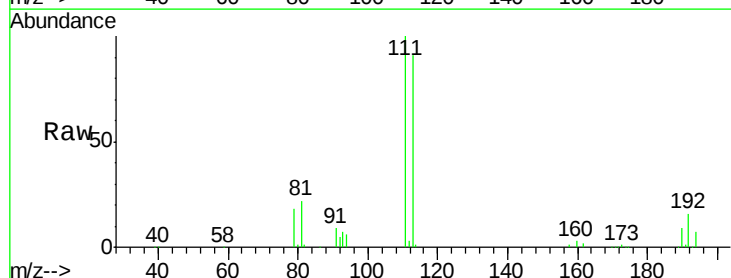
Tgt Ion:113 Resp: 396460

Ion Ratio Lower Upper

113 100

111 109.5 83.1 124.7

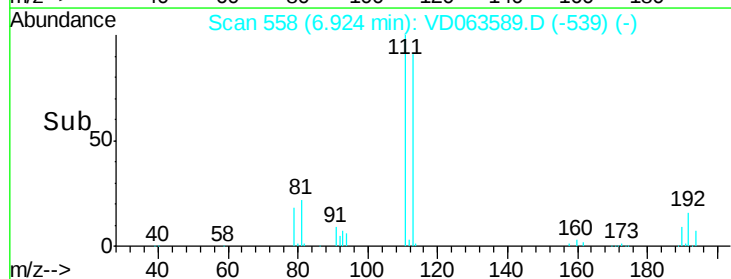
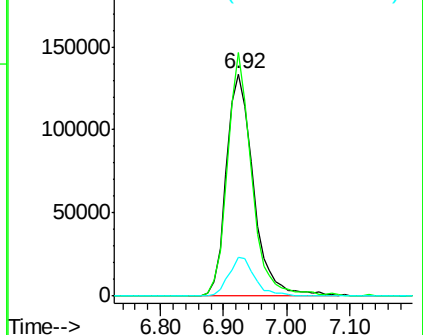
192 17.6 13.1 19.7

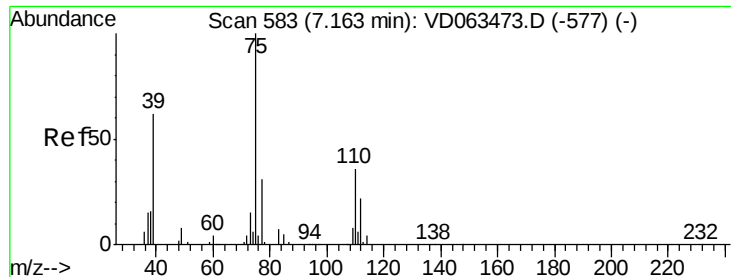


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

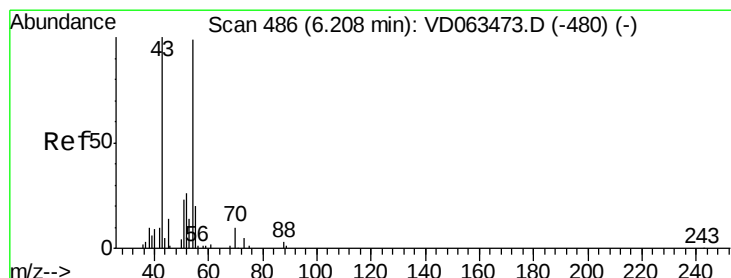
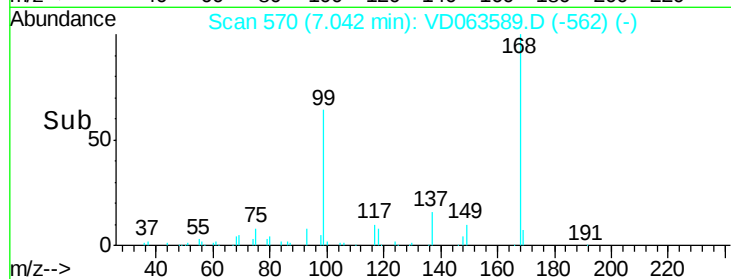
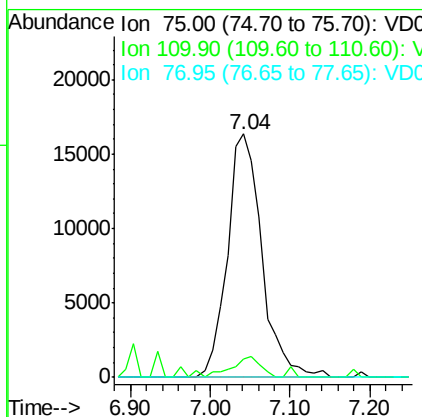
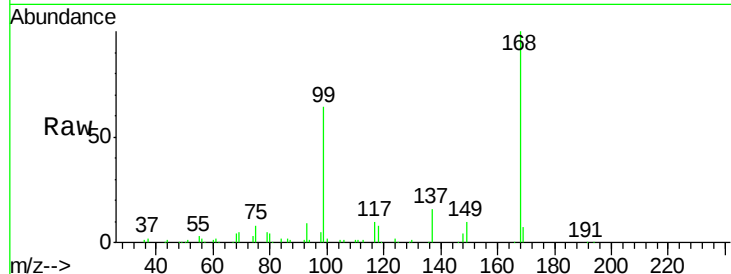




#36
 1,1-Dichloropropene
 Concen: 6.486 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.12 min
 Lab File: VD063589.D
 Acq: 14 Aug 2019 22:08

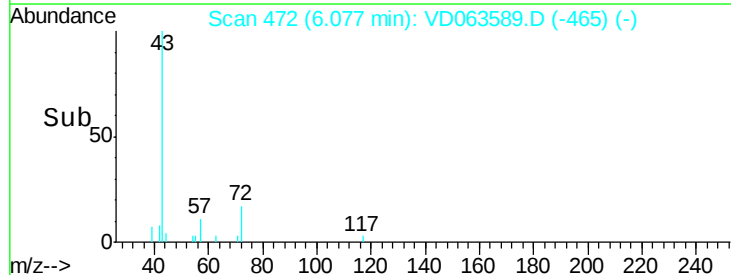
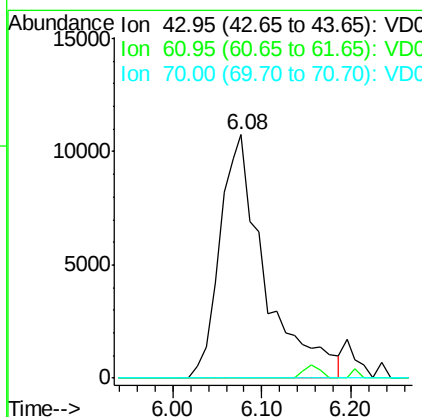
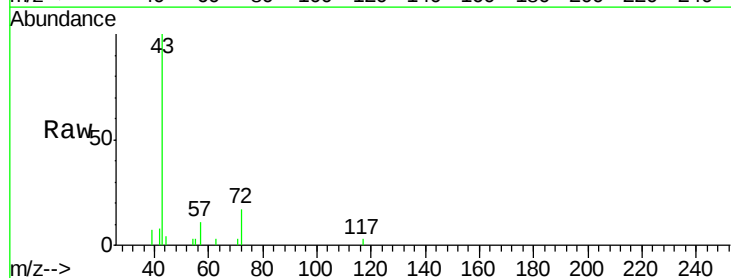
Instrument :
 MSVOA_D
 ClientSampleId :

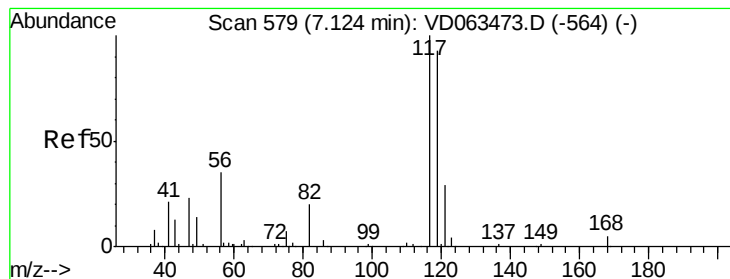
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.6	52.8#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 11.855 ug/l
 RT: 6.08 min Scan# 472
 Delta R.T. -0.13 min
 Lab File: VD063589.D
 Acq: 14 Aug 2019 22:08

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.0	13.6#
70	0.0	6.9	10.3#





#38

Carbon Tetrachloride

Concen: 5.126 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

Instrument :
MSVOA_D
ClientSampleId :

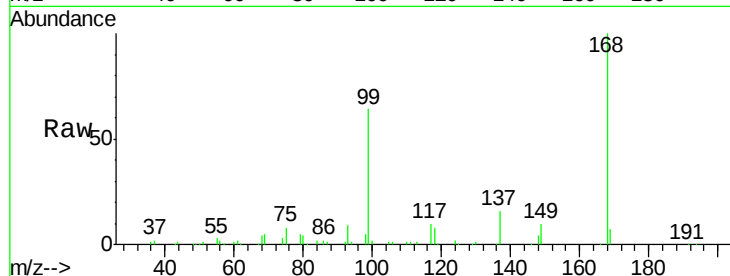
Tot Ion:117 Resp: 58739

Ion Ratio Lower Upper

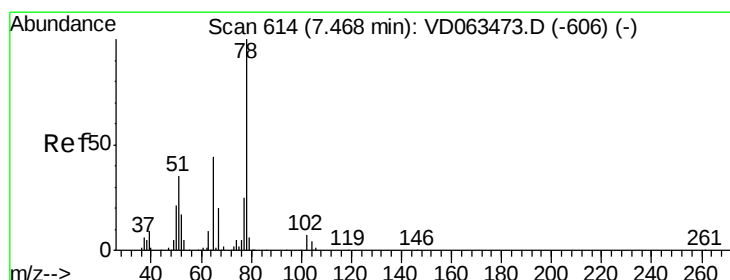
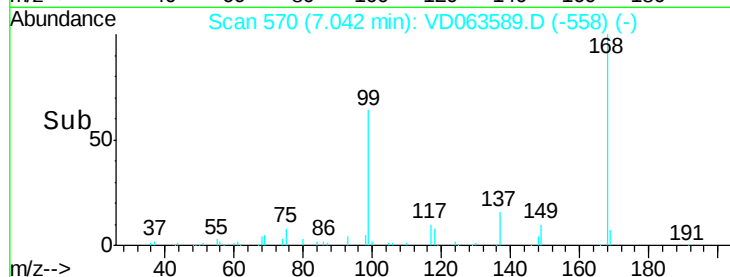
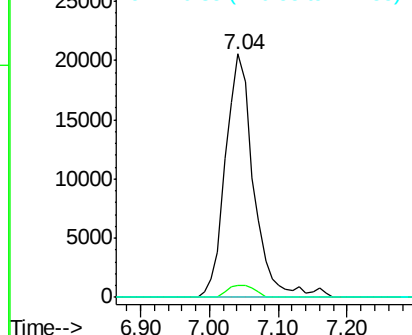
117 100

119 4.7 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



#40

Benzene

Concen: 2.120 ug/l

RT: 7.46 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD063589.D

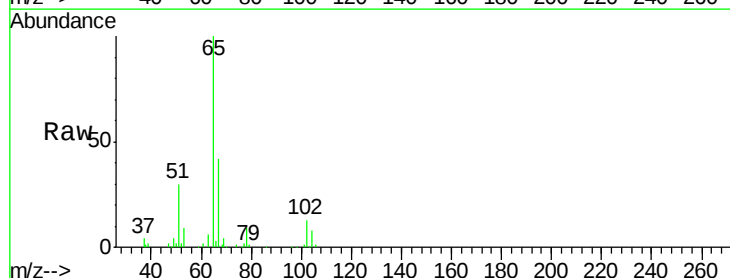
Acq: 14 Aug 2019 22:08

Tgt Ion: 78 Resp: 35478

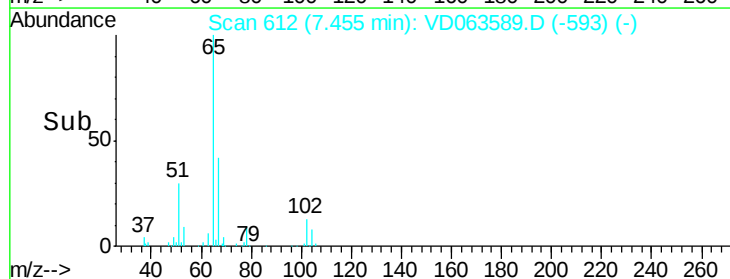
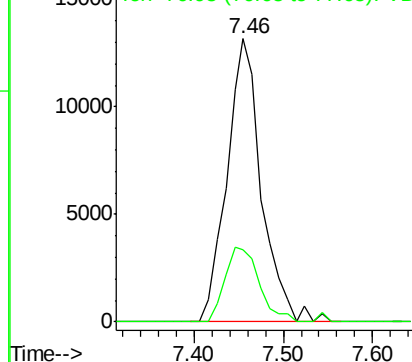
Ion Ratio Lower Upper

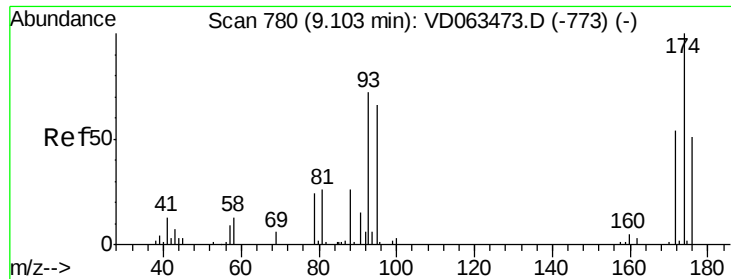
78 100

77 25.4 20.1 30.1



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

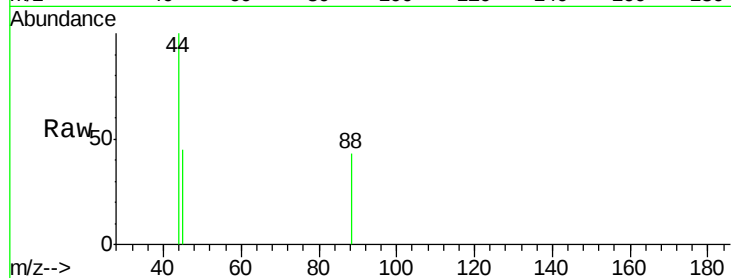




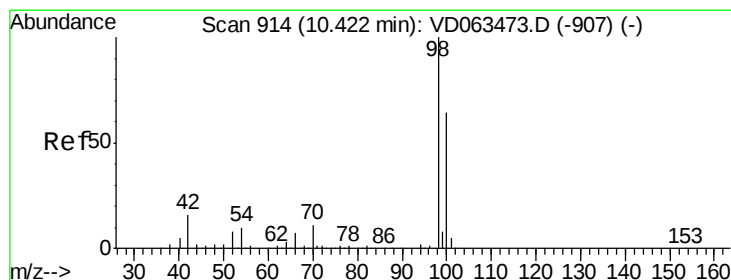
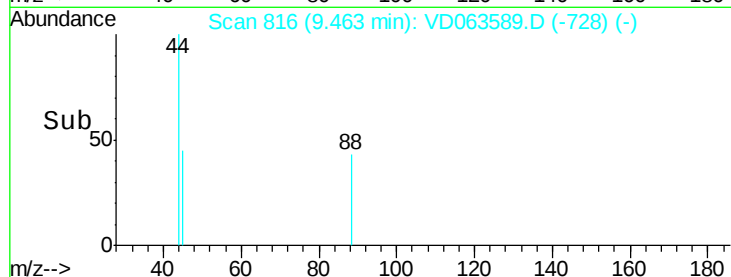
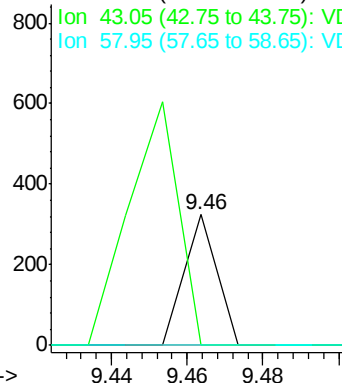
#49
 1,4-Dioxane
 Concen: 31.985 ug/l
 RT: 9.46 min Scan# 816
 Delta R.T. 0.36 min
 Lab File: VD063589.D
 Acq: 14 Aug 2019 22:08

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 88 Resp: 192
 Ion Ratio Lower Upper
 88 100
 43 0.0 22.9 34.3#
 58 0.0 40.1 60.1#

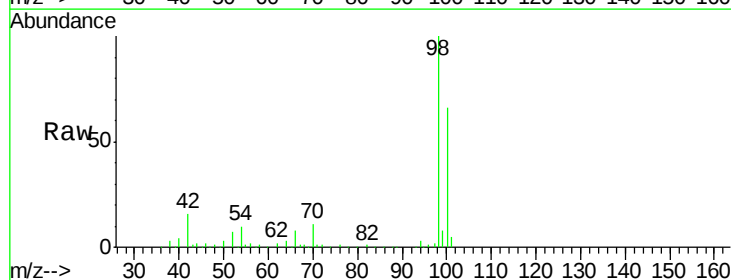


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

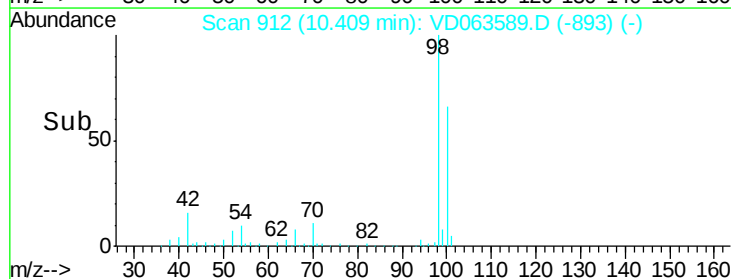
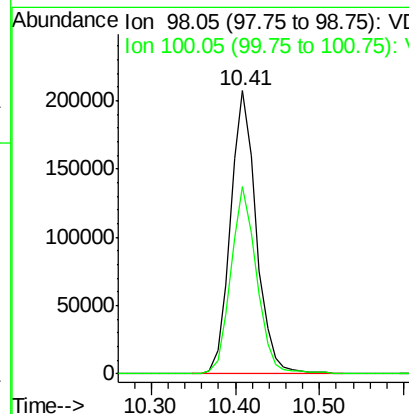


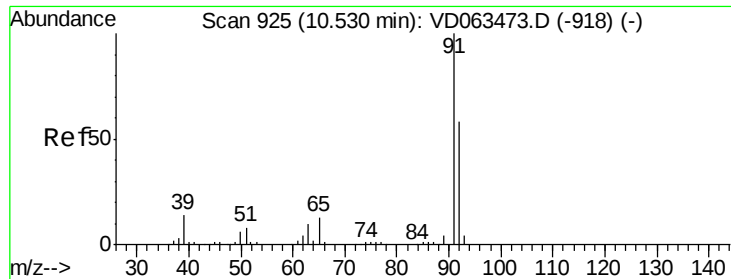
#50
 Toluene-d8
 Concen: 27.621 ug/l
 RT: 10.41 min Scan# 912
 Delta R.T. -0.01 min
 Lab File: VD063589.D
 Acq: 14 Aug 2019 22:08

Tgt Ion: 98 Resp: 439920
 Ion Ratio Lower Upper
 98 100
 100 66.3 51.7 77.5



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





#52

Toluene

Concen: 1.508 ug/l

RT: 10.51 min Scan# 922

Delta R.T. -0.02 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

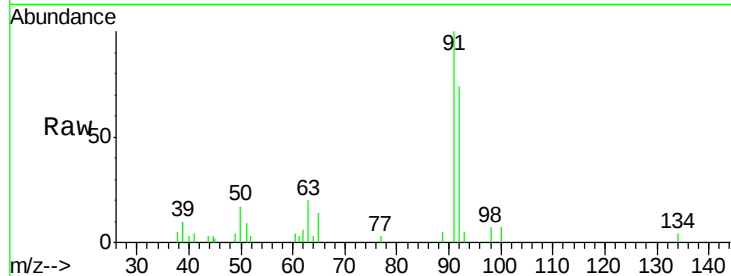
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 16256

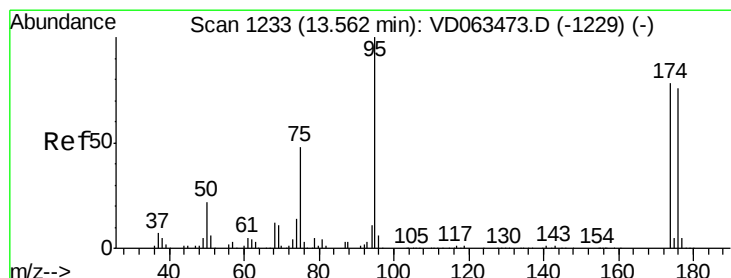
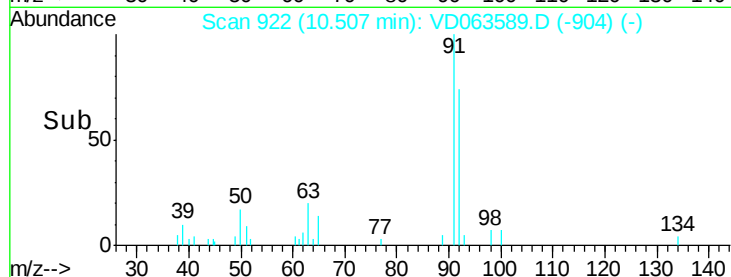
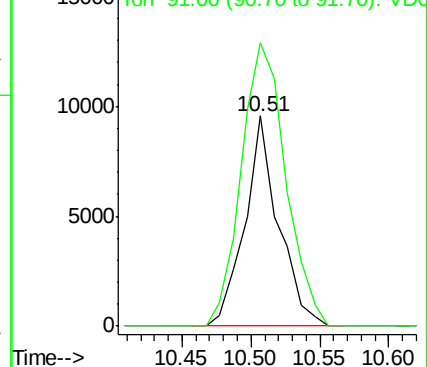
Ion Ratio Lower Upper

92 100

91 134.8 137.9 206.9#



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 17.496 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

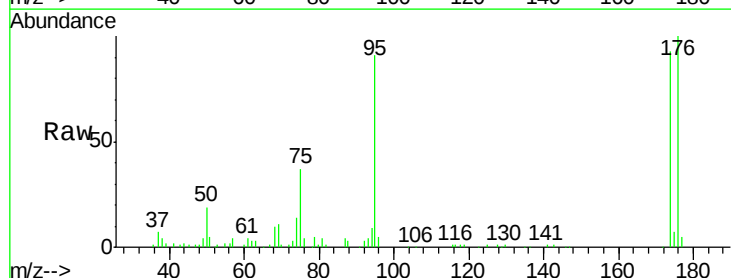
Tgt Ion: 95 Resp: 126302

Ion Ratio Lower Upper

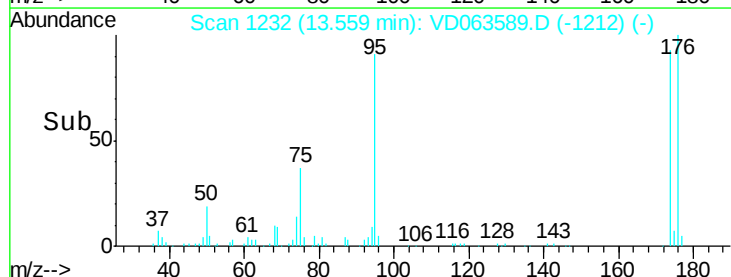
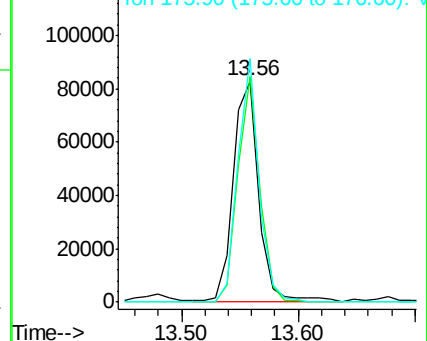
95 100

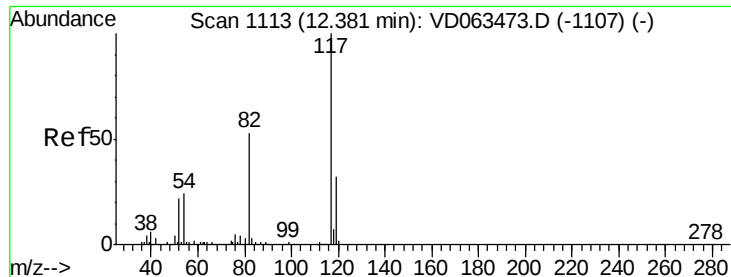
174 102.0 0.0 155.4

176 110.1 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

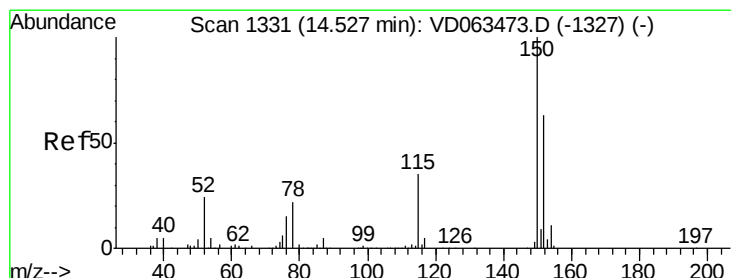
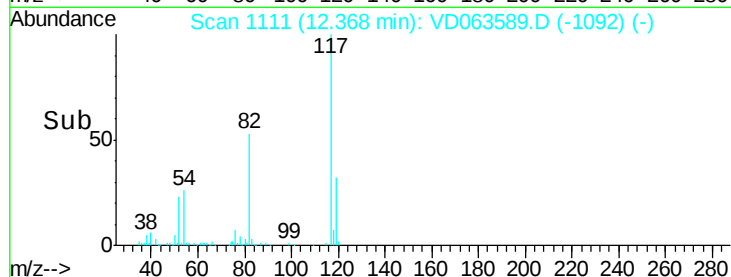
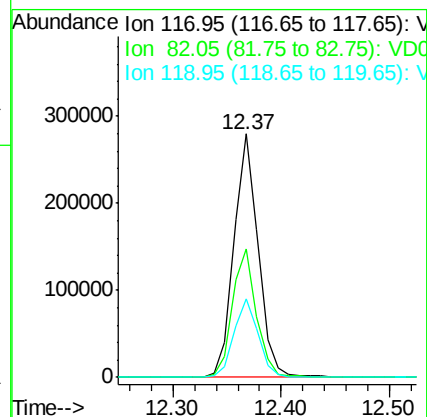
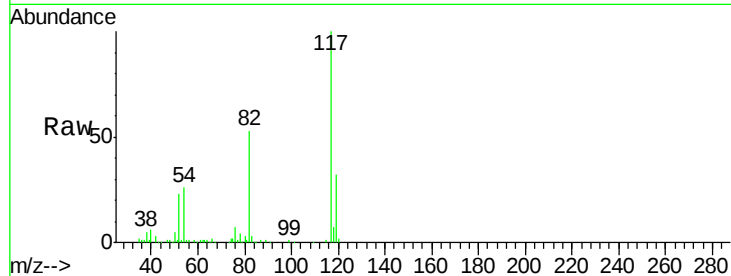




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

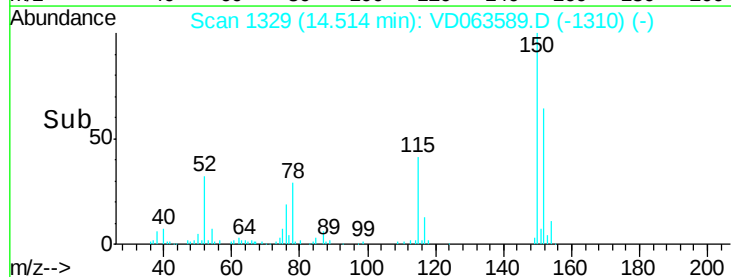
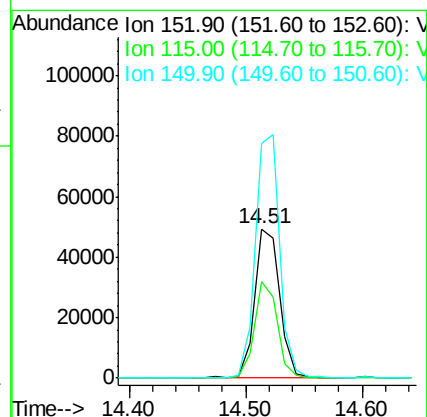
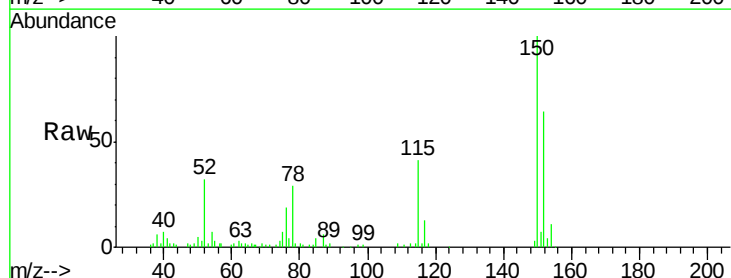
Instrument :
MSVOA_D
ClientSampleId :

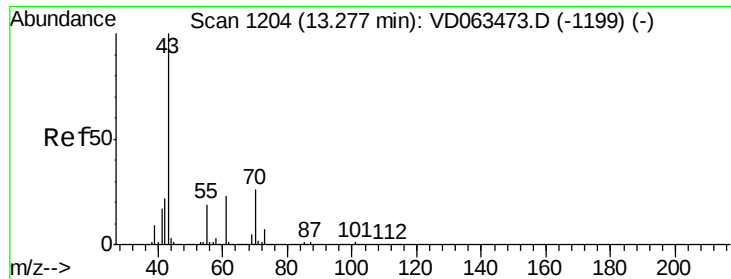
Tot Ion:117 Resp: 437076
Ion Ratio Lower Upper
117 100
82 52.6 42.0 63.0
119 32.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063589.D
Acq: 14 Aug 2019 22:08

Tgt Ion:152 Resp: 73428
Ion Ratio Lower Upper
152 100
115 65.1 30.9 92.7
150 157.4 0.0 318.6





#74

N-amvl acetate

Concen: 4.346 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 43 Resp: 5095

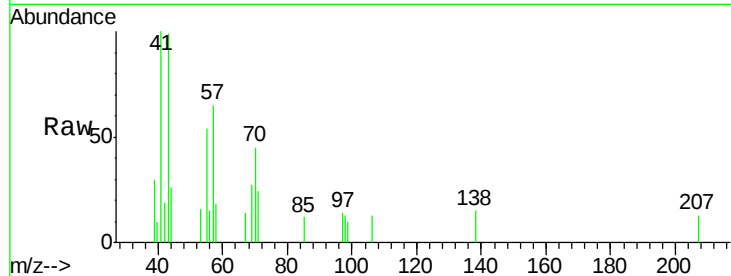
Ion Ratio Lower Upper

43 100

70 46.0 21.1 31.7#

55 55.0 15.4 23.0#

61 0.0 18.2 27.2#

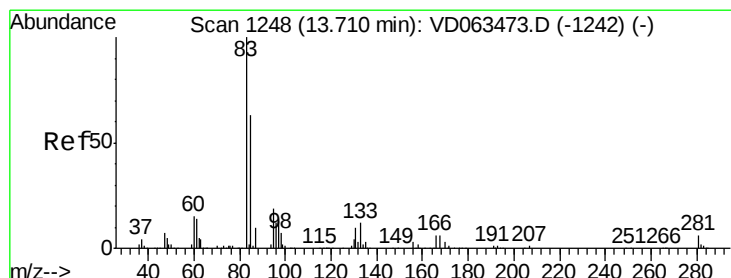
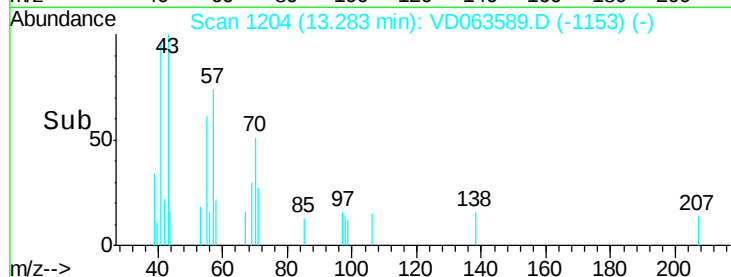
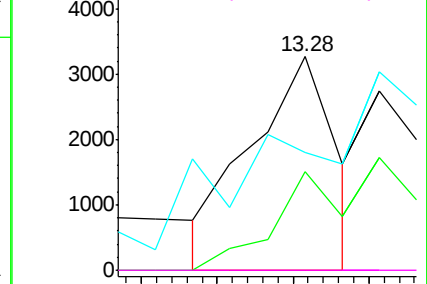


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 5.973 ug/l

RT: 13.72 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

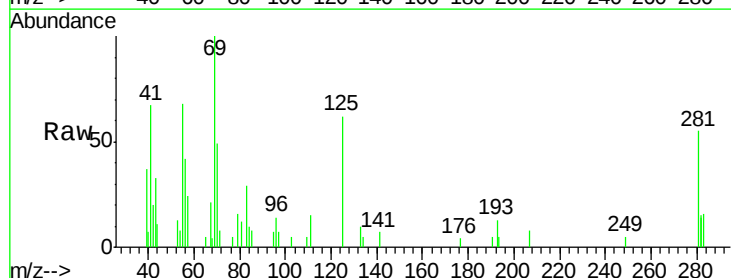
Tgt Ion: 83 Resp: 4630

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

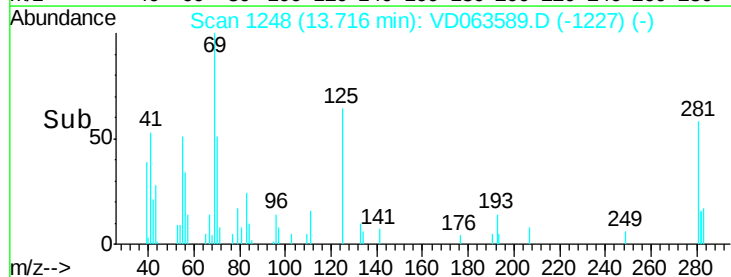
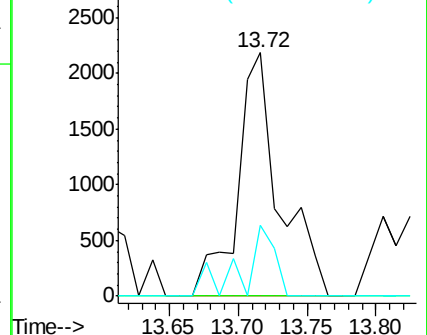
85 28.9 31.4 94.3#

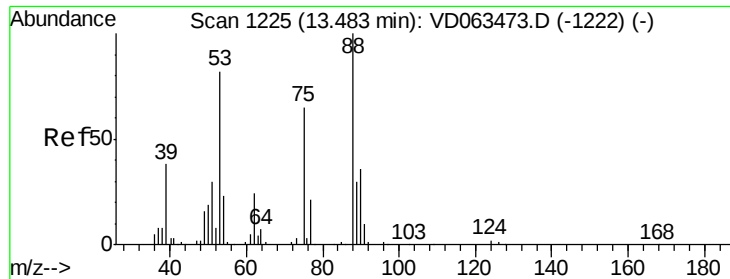


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 234.514 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

Instrument :

MSVOA_D

ClientSampleId :

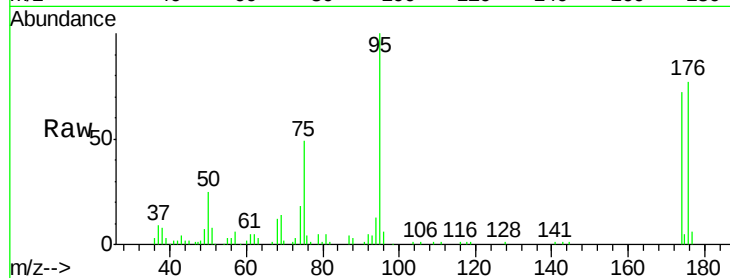
Tot Ion: 75 Resp: 53117

Ion Ratio Lower Upper

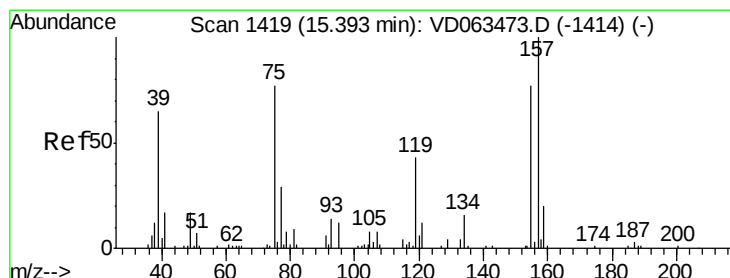
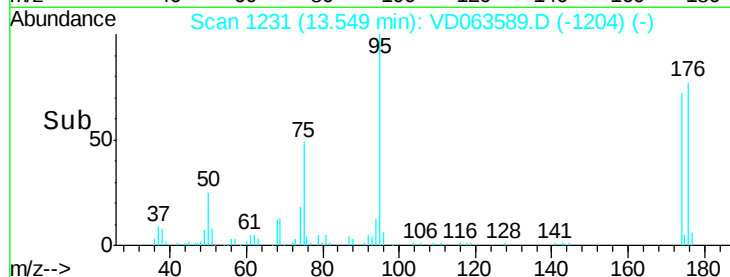
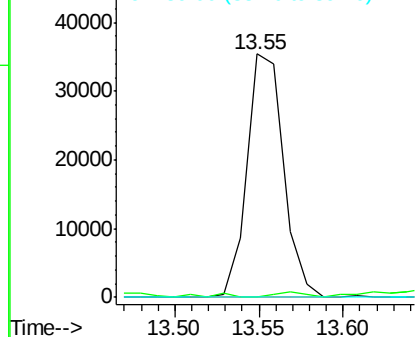
75 100

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.240 ug/l

RT: 15.35 min Scan# 1414

Delta R.T. -0.04 min

Lab File: VD063589.D

Acq: 14 Aug 2019 22:08

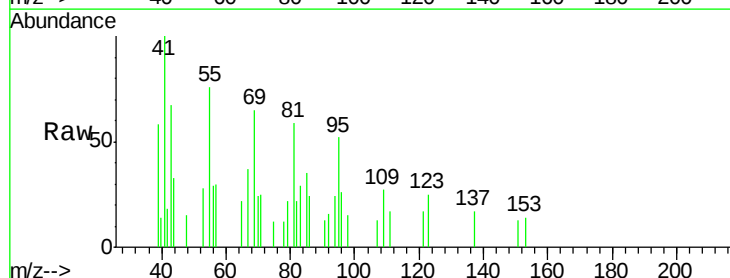
Tgt Ion: 75 Resp: 181

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

157 0.0 65.0 195.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 154.90 (154.60 to 155.60): V
Ion 156.85 (156.55 to 157.55): V

