

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060419\
 Data File : VD062603.D
 Acq On : 4 Jun 2019 17:32
 Operator : FY/SY
 Sample : K3183-05
 Misc : 5.25g/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 05 03:49:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	561863	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	801392	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	628746	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	303466	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	322782	49.00	ug/l	-0.02
Spiked Amount			Recovery	=	98.00%	
35) Dibromofluoromethane	6.91	113	315834	43.25	ug/l	-0.02
Spiked Amount			Recovery	=	86.50%	
50) Toluene-d8	10.40	98	574414	35.90	ug/l	-0.02
Spiked Amount			Recovery	=	71.80%	
62) 4-Bromofluorobenzene	13.55	95	248173	34.39	ug/l	-0.01
Spiked Amount			Recovery	=	68.78%	

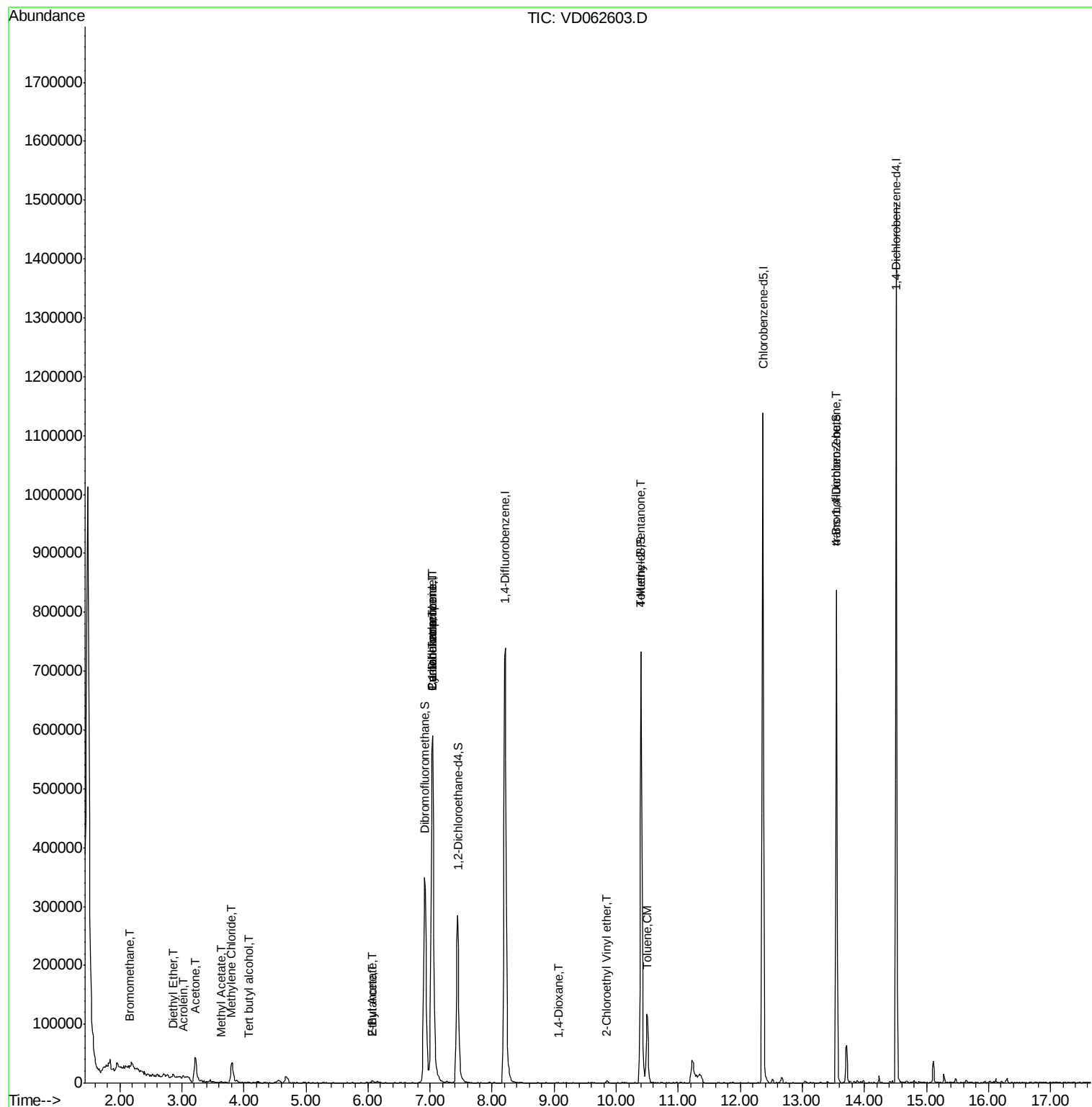
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	1510	Below Cal	#	43
5) Bromomethane	2.16	94	1747	1.081	ug/l #	38
8) Diethyl Ether	2.85	74	1718	1.273	ug/l	97
11) Tert butyl alcohol	4.08	59	343	1.221	ug/l #	80
13) Acrolein	3.02	56	1649	13.468	ug/l	97
16) Acetone	3.21	43	85207	65.827	ug/l	95
18) Methyl Acetate	3.63	43	2213	1.047	ug/l #	63
20) Methylene Chloride	3.80	84	22833	4.765	ug/l	89
25) 2-Butanone	6.07	43	8798	7.217	ug/l	99
31) Cyclohexane	7.04	56	14018	2.291	ug/l #	8
36) 1,1-Dichloropropene	7.03	75	47608	5.968	ug/l #	49
37) Ethyl Acetate	6.07	43	8798	2.616	ug/l #	72
38) Carbon Tetrachloride	7.03	117	61947	5.216	ug/l #	18
49) 1,4-Dioxane	9.08	88	198	8.743	ug/l #	29
51) 4-Methyl-2-Pentanone	10.40	43	3479	1.191	ug/l #	1
52) Toluene	10.51	92	53767	5.035	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	2457	1.282	ug/l #	55
81) trans-1,4-Dichloro-2-buten	13.55	75	123006	117.910	ug/l #	5

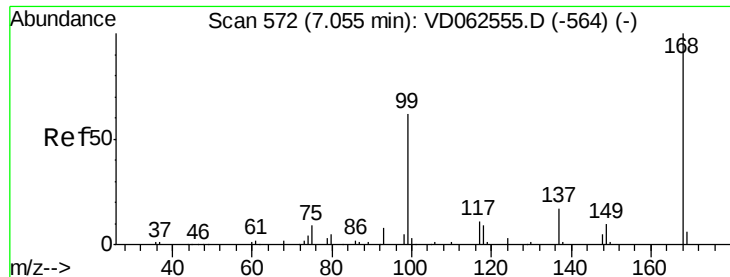
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

Instrument :

MSVOA_D

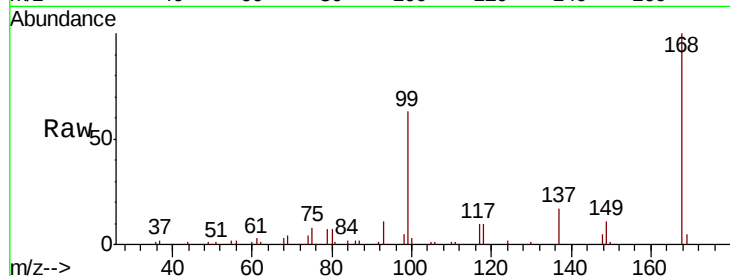
ClientSampleId :

Tot Ion:168 Resp: 561863

Ion Ratio Lower Upper

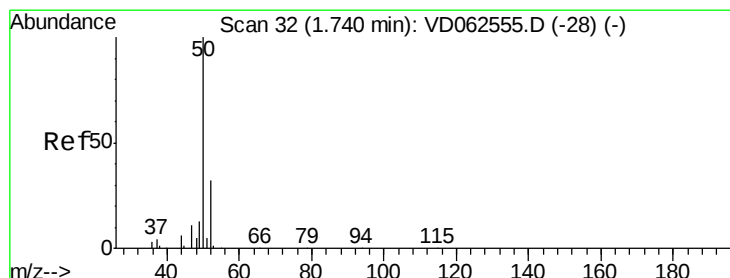
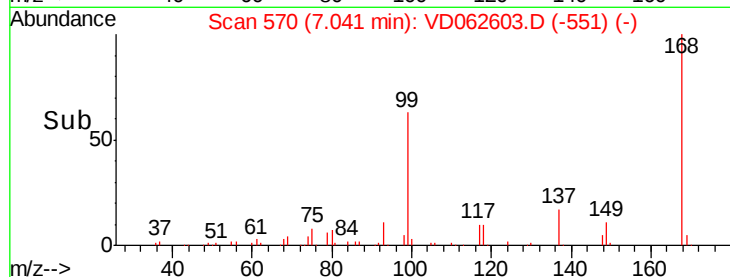
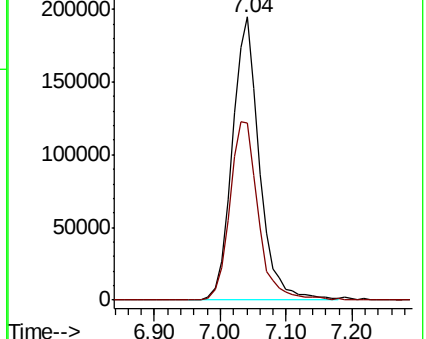
168 100

99 62.7 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.02 min

Lab File: VD062603.D

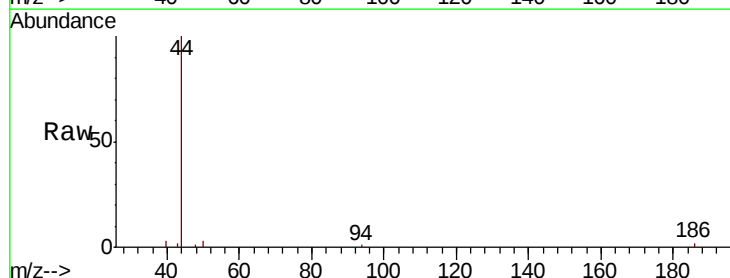
Acq: 4 Jun 2019 17:32

Tgt Ion: 50 Resp: 1510

Ion Ratio Lower Upper

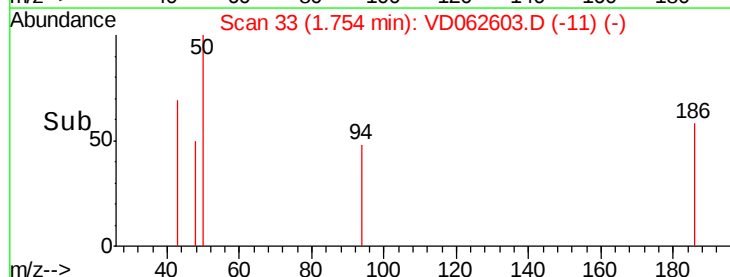
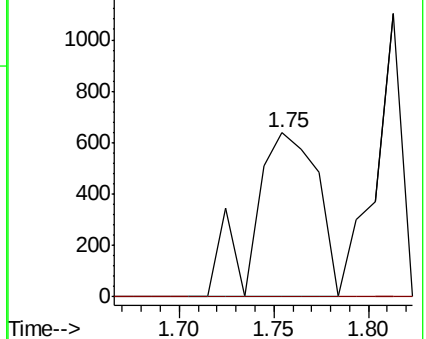
50 100

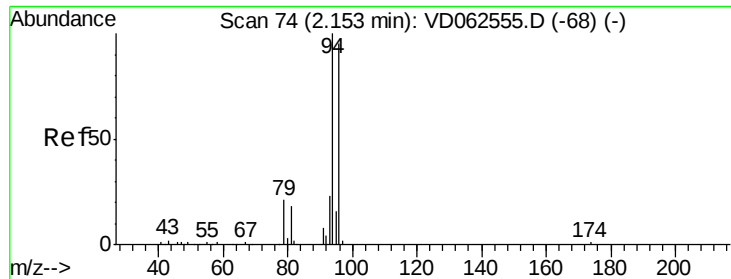
52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 1.081 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

Instrument :
MSVOA_D
ClientSampled :

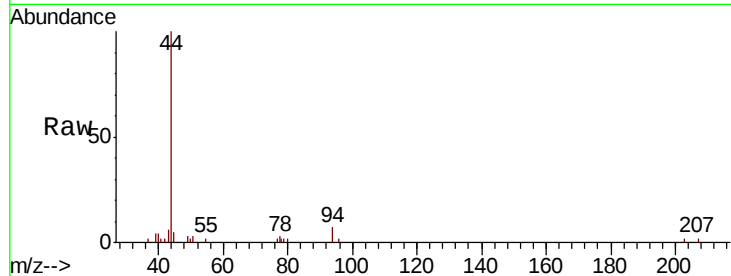
Tot Ion: 94 Resp: 1747

Ion Ratio Lower Upper

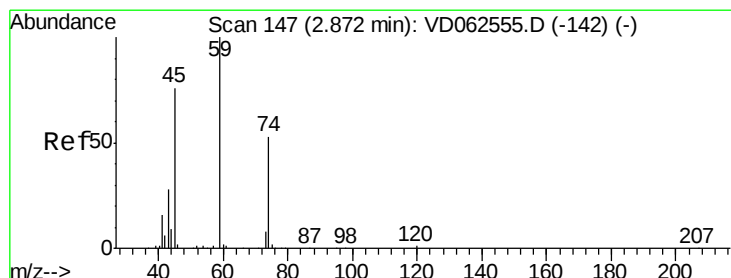
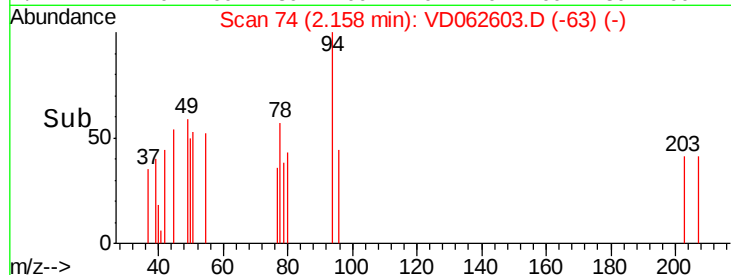
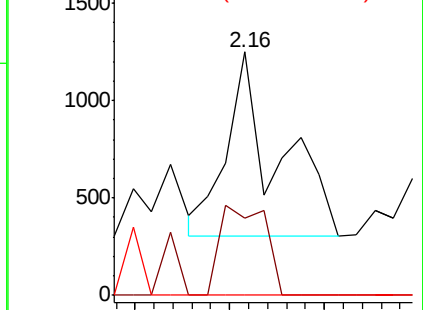
94 100

96 31.5 76.2 114.4#

93 0.0 18.4 27.6#



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



#8

Diethyl Ether

Concen: 1.273 ug/l

RT: 2.85 min Scan# 144

Delta R.T. -0.02 min

Lab File: VD062603.D

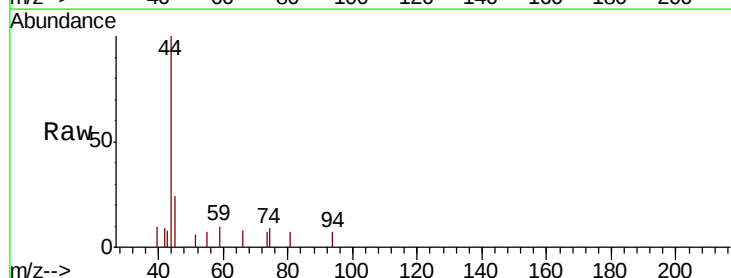
Acq: 4 Jun 2019 17:32

Tgt Ion: 74 Resp: 1718

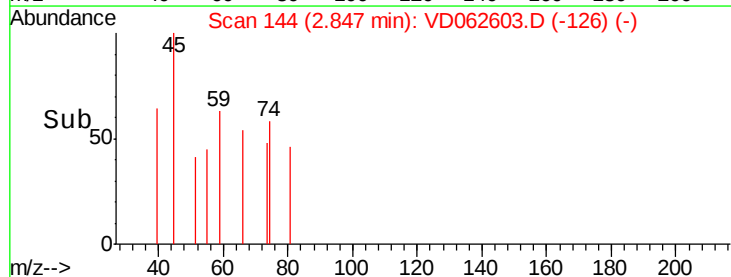
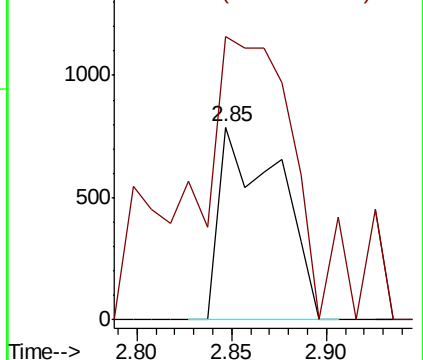
Ion Ratio Lower Upper

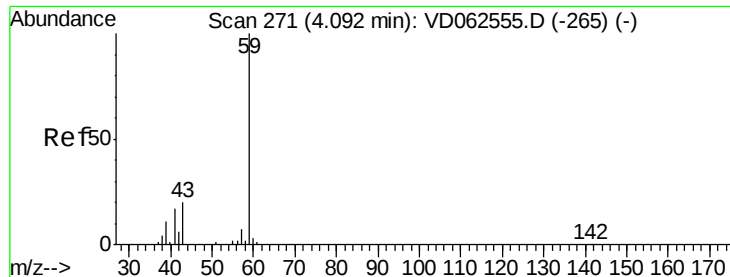
74 100

45 147.0 71.9 215.7



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC

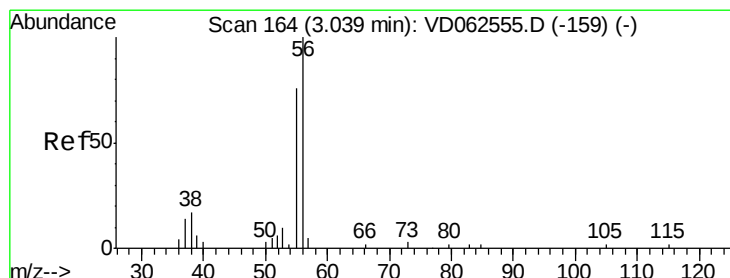
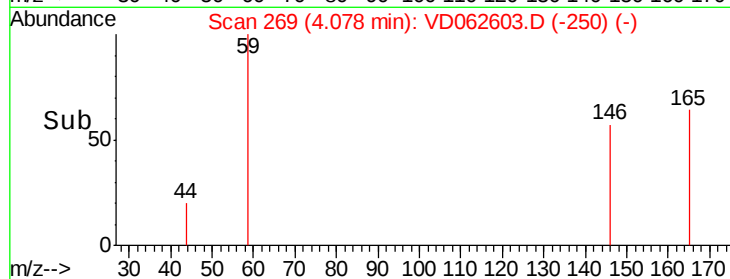
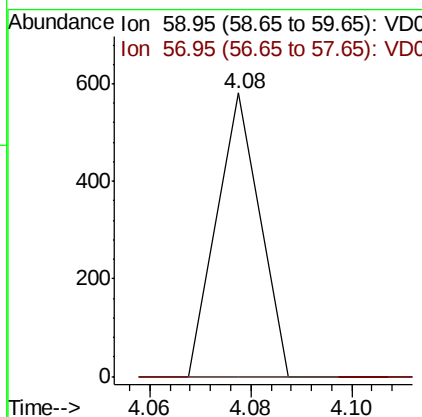
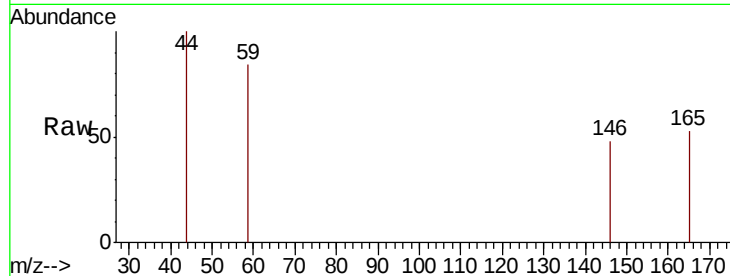




#11
Tert butyl alcohol
Concen: 1.221 ug/l
RT: 4.08 min Scan# 269
Delta R.T. -0.01 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

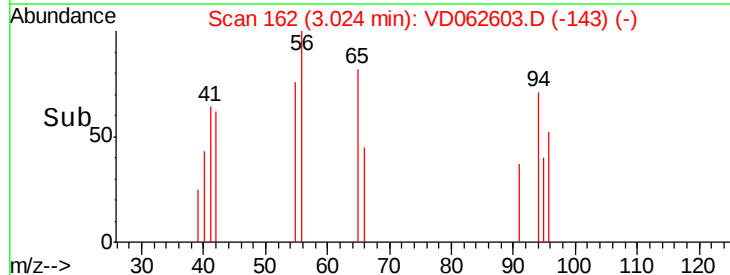
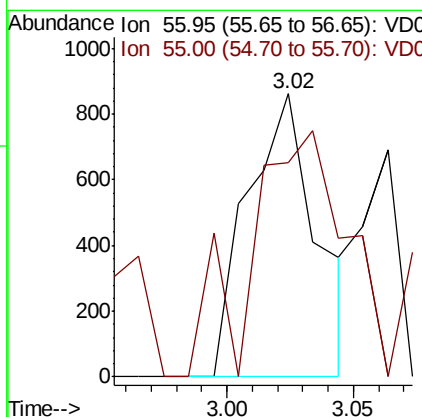
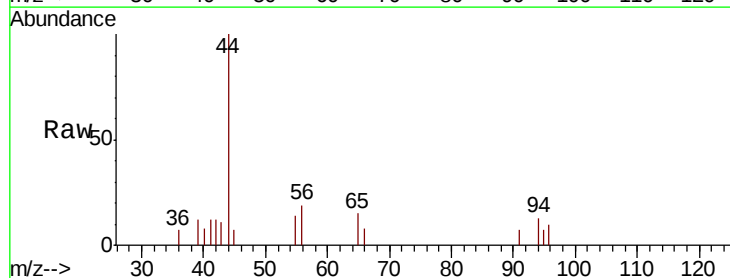
Instrument :
MSVOA_D
ClientSampleId :

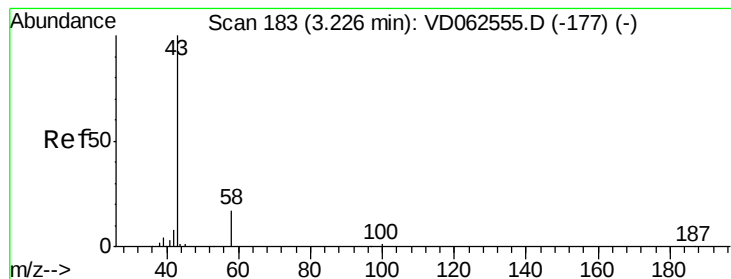
Tot Ion: 59 Resp: 343
Ion Ratio Lower Upper
59 100
57 0.0 5.4 8.0#



#13
Acrolein
Concen: 13.468 ug/l
RT: 3.02 min Scan# 162
Delta R.T. -0.01 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Tgt Ion: 56 Resp: 1649
Ion Ratio Lower Upper
56 100
55 75.9 62.6 93.8





#16

Acetone

Concen: 65.827 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

Instrument :

MSVOA_D

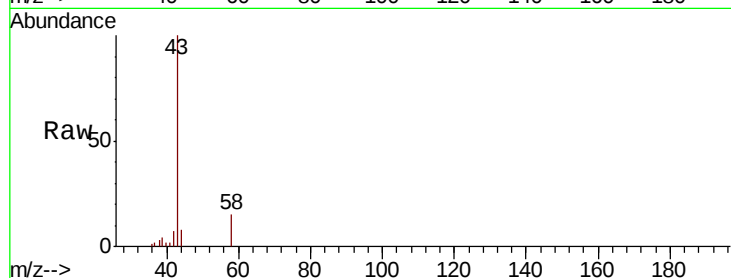
ClientSampleId :

Tot Ion: 43 Resp: 85207

Ion Ratio Lower Upper

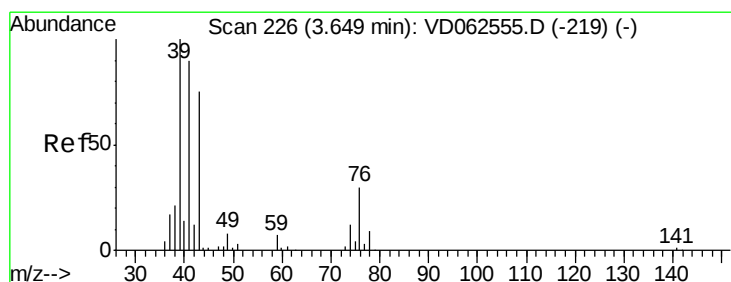
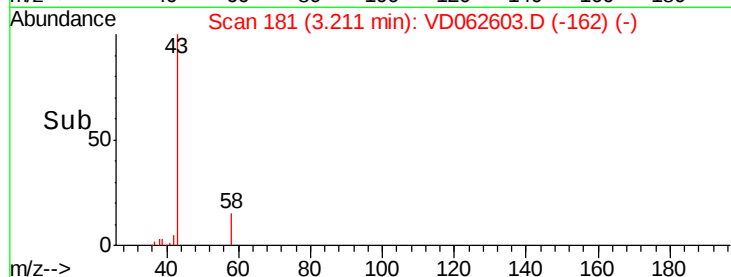
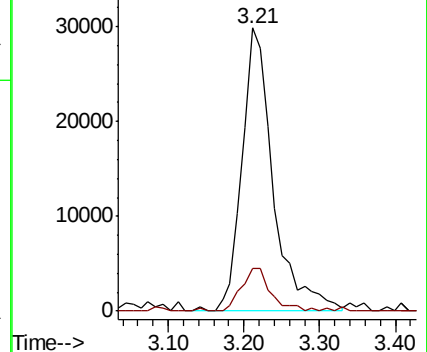
43 100

58 15.2 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.047 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD062603.D

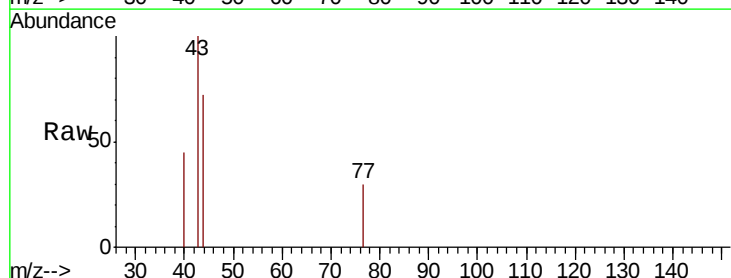
Acq: 4 Jun 2019 17:32

Tgt Ion: 43 Resp: 2213

Ion Ratio Lower Upper

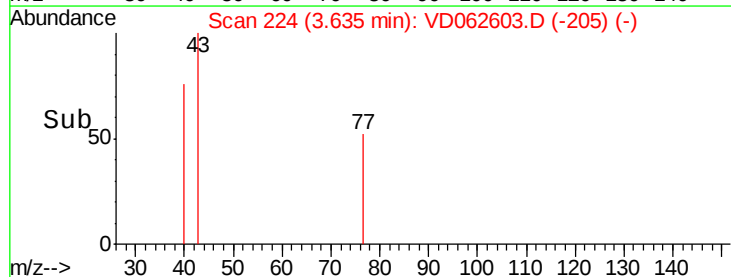
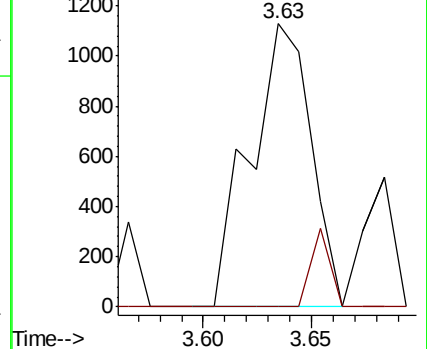
43 100

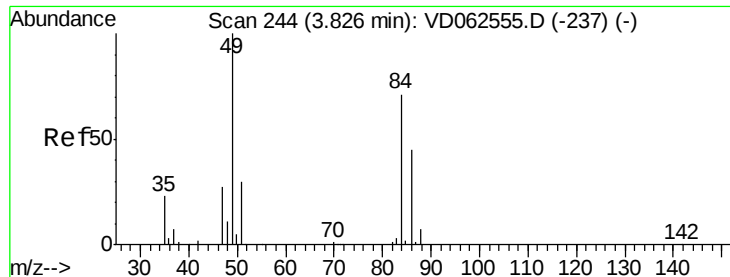
74 0.0 12.5 18.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

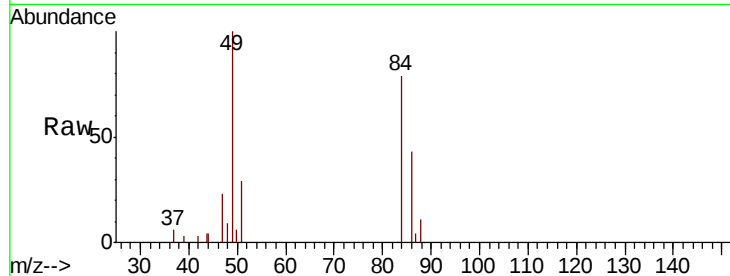




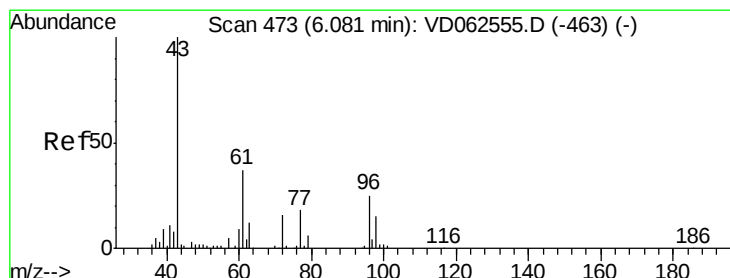
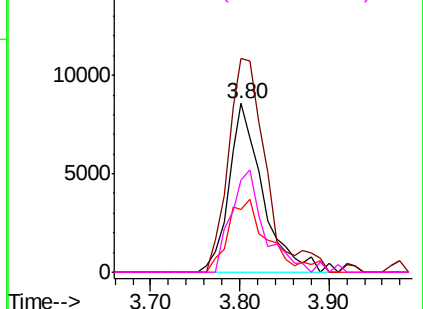
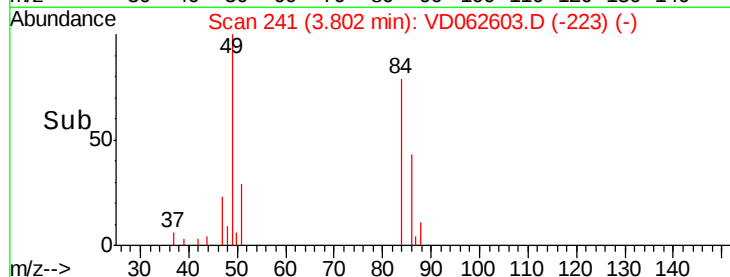
#20
Methvlene Chloride
Concen: 4.765 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 22833
Ion Ratio Lower Upper
84 100
49 126.7 112.3 168.5
51 37.0 33.6 50.4
86 54.4 50.4 75.6

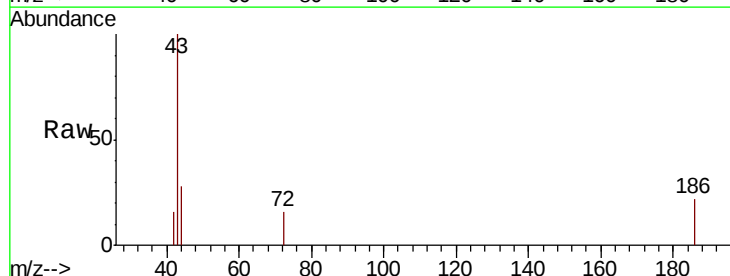


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

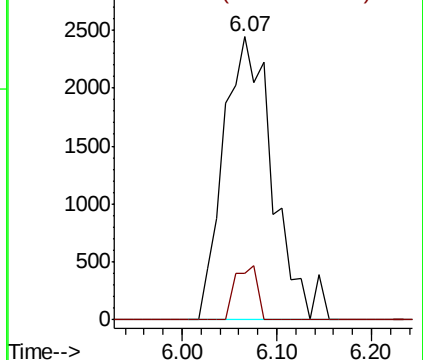
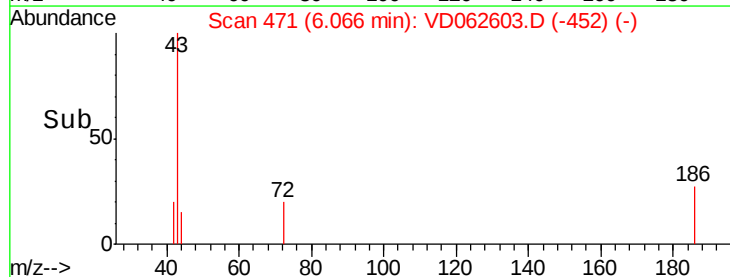


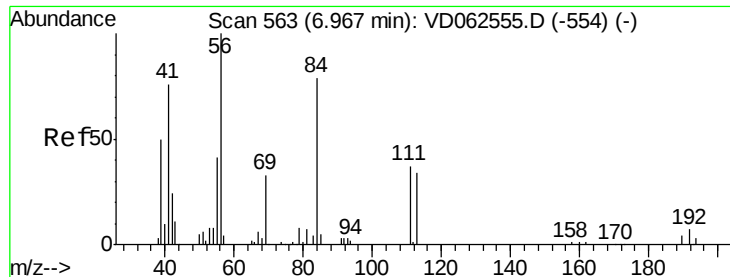
#25
2-Butanone
Concen: 7.217 ug/l
RT: 6.07 min Scan# 471
Delta R.T. -0.01 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Tgt Ion: 43 Resp: 8798
Ion Ratio Lower Upper
43 100
72 16.5 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

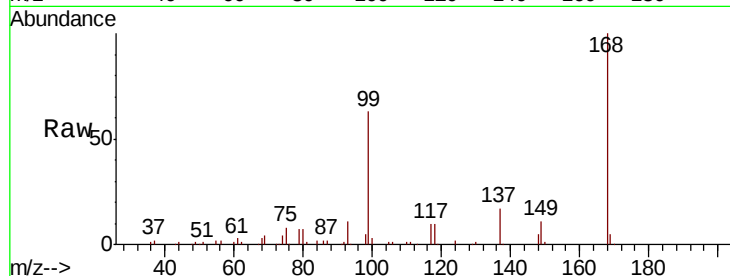




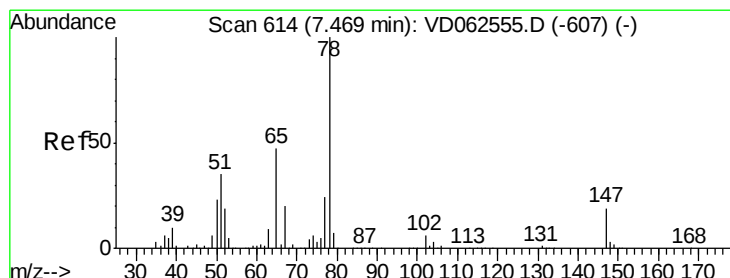
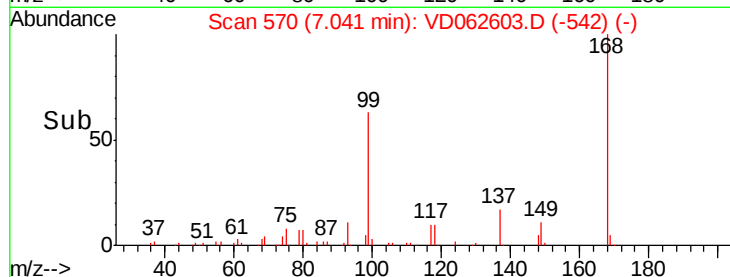
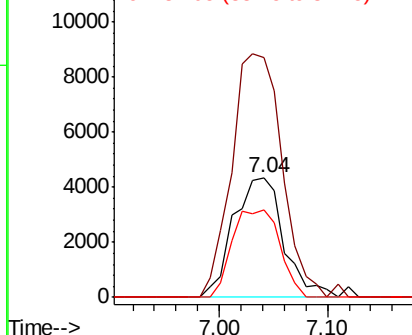
#31
Cyclohexane
Concen: 2.291 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.07 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 14018
Ion Ratio Lower Upper
56 100
69 200.5 26.2 39.2#
84 72.8 65.2 97.8

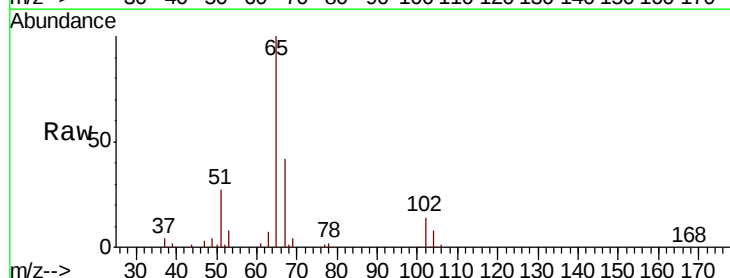


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

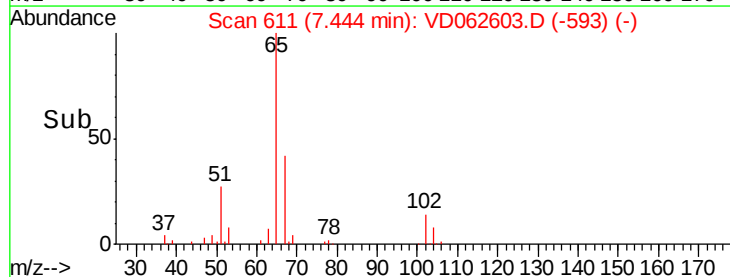
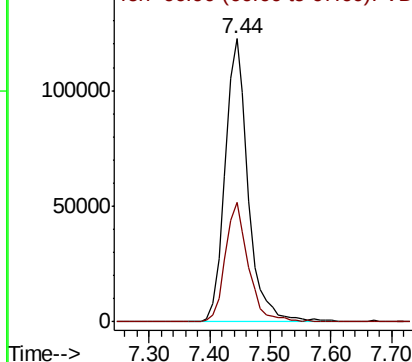


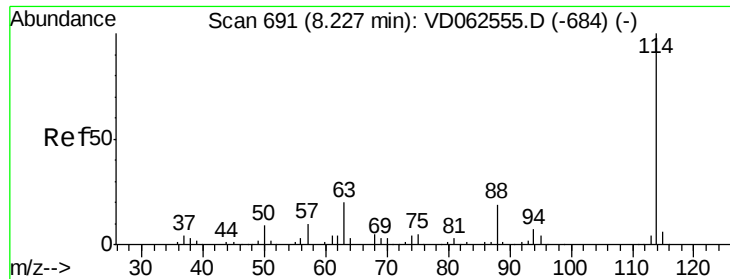
#33
1,2-Dichloroethane-d4
Concen: 48.995 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.02 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Tgt Ion: 65 Resp: 322782
Ion Ratio Lower Upper
65 100
67 42.2 0.0 83.6



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. -0.01 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

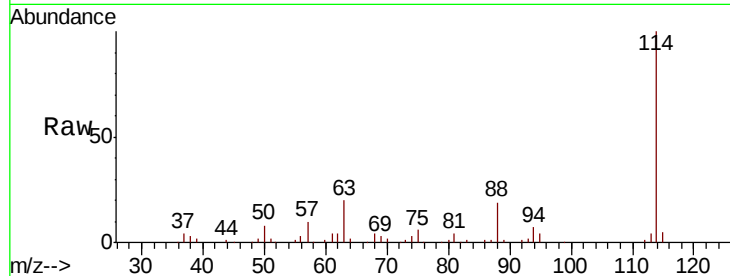
Tot Ion:114 Resp: 801392

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.6

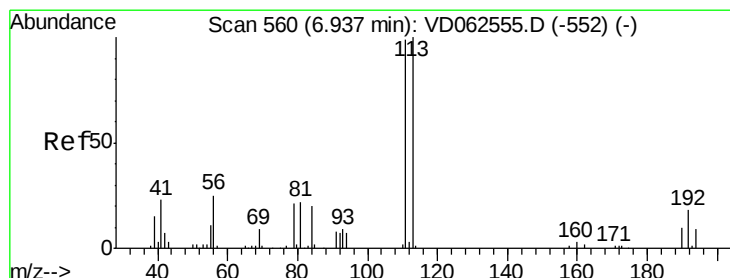
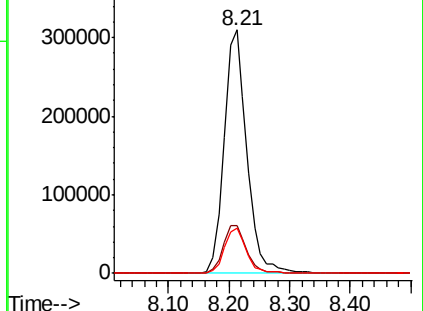
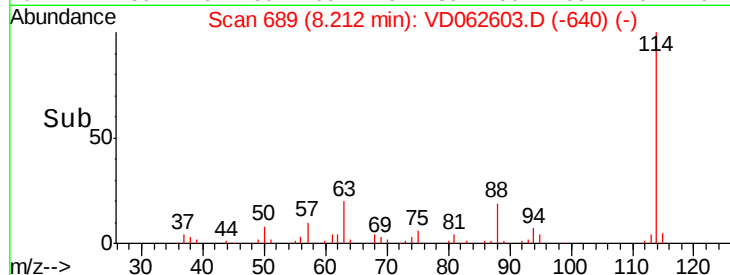
88 18.6 0.0 37.6



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: 43.248 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

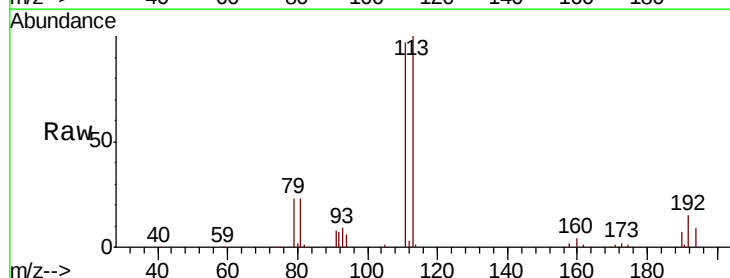
Tgt Ion:113 Resp: 315834

Ion Ratio Lower Upper

113 100

111 97.3 78.8 118.2

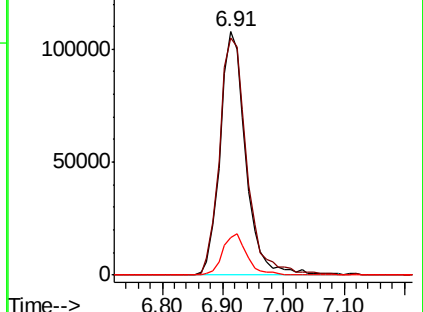
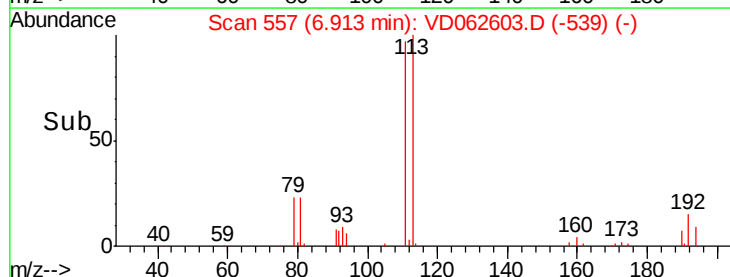
192 15.3 14.6 22.0

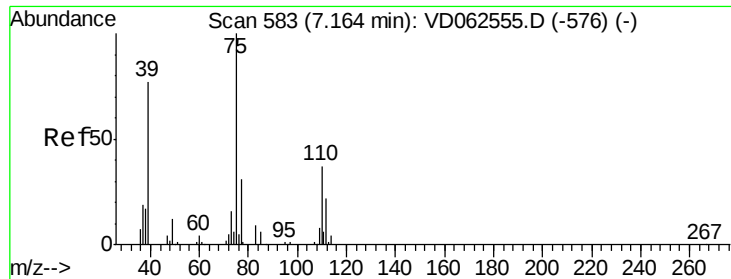


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.968 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.13 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

Instrument :

MSVOA_D

ClientSampled :

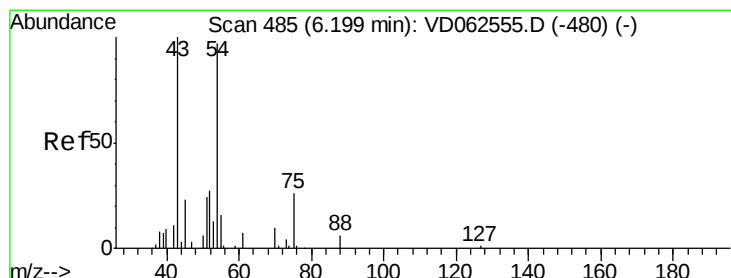
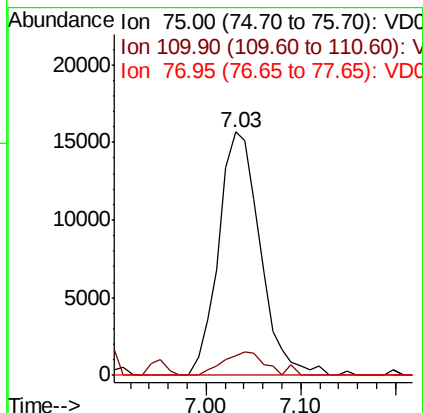
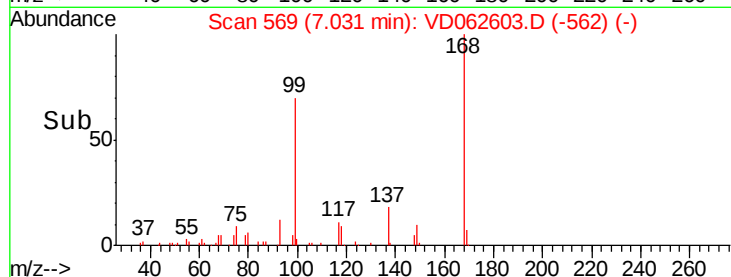
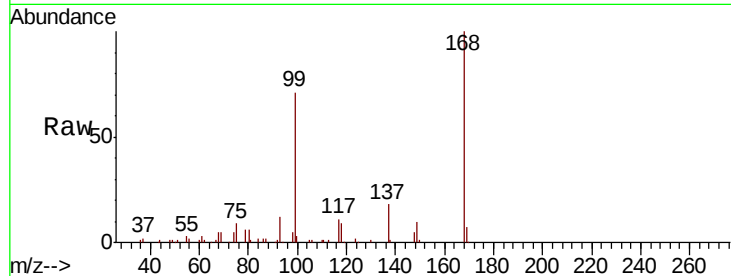
Tot Ion: 75 Resp: 47608

Ion Ratio Lower Upper

75 100

110 8.2 18.3 54.8#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 2.616 ug/l

RT: 6.07 min Scan# 471

Delta R.T. -0.13 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

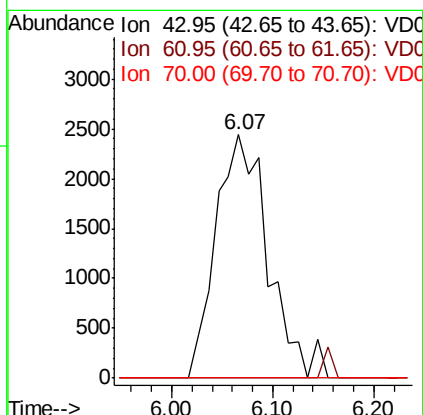
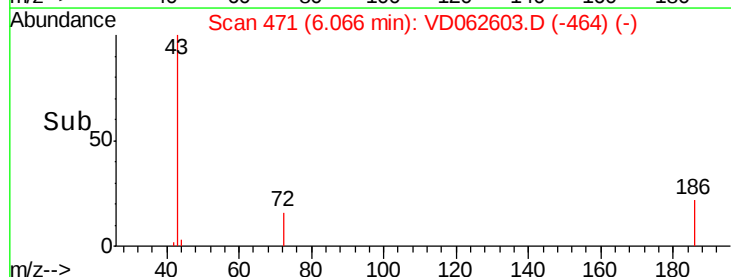
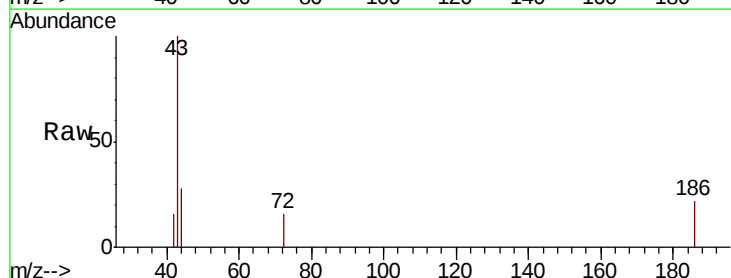
Tgt Ion: 43 Resp: 8798

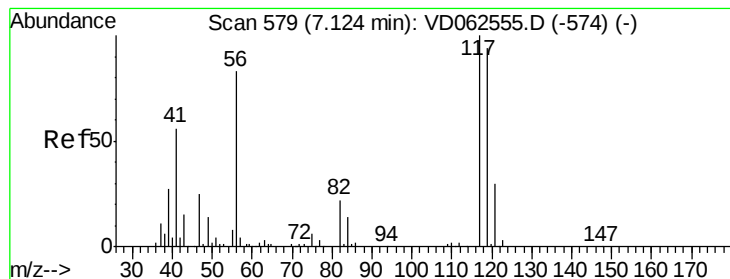
Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.0 6.5 9.7#





#38

Carbon Tetrachloride

Concen: 5.216 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.09 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

Instrument :

MSVOA_D

ClientSampleId :

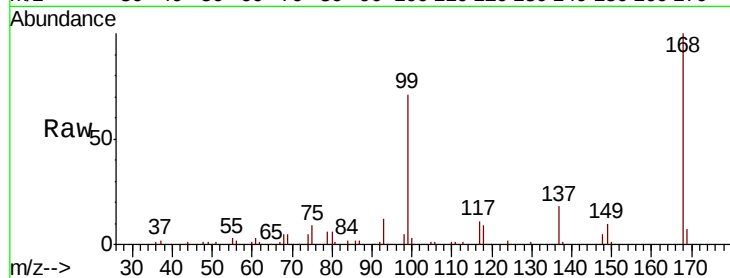
Tot Ion:117 Resp: 61947

Ion Ratio Lower Upper

117 100

119 4.1 71.4 107.2#

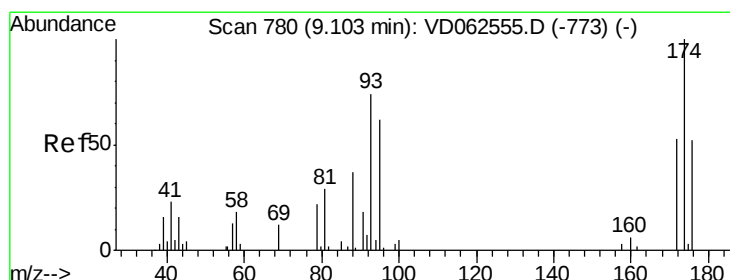
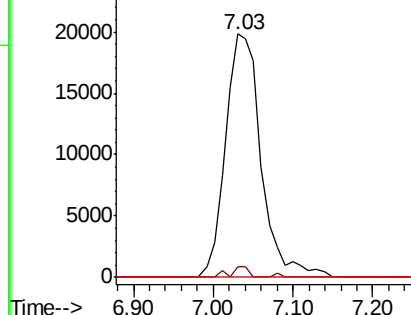
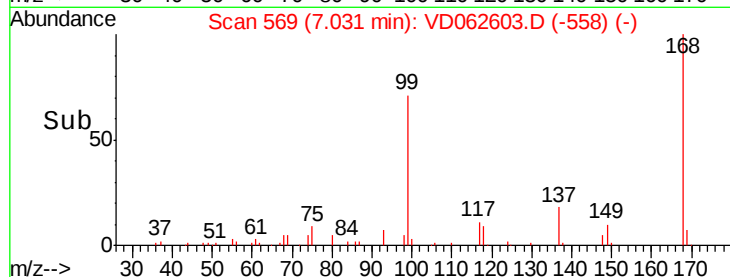
121 0.0 22.5 33.7#



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: 8.743 ug/l

RT: 9.08 min Scan# 777

Delta R.T. -0.02 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

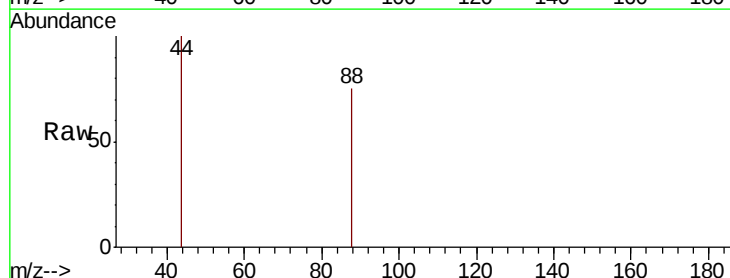
Tgt Ion: 88 Resp: 198

Ion Ratio Lower Upper

88 100

43 0.0 37.1 55.7#

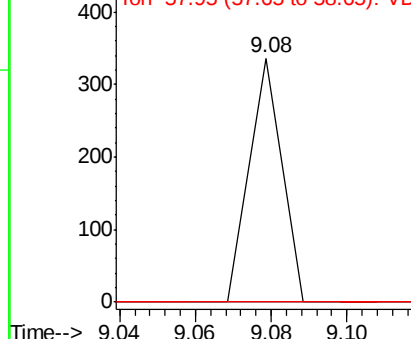
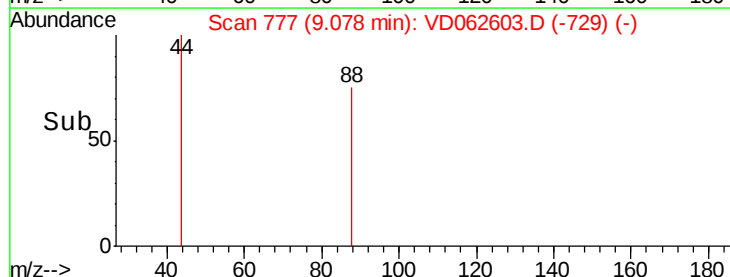
58 0.0 39.3 58.9#

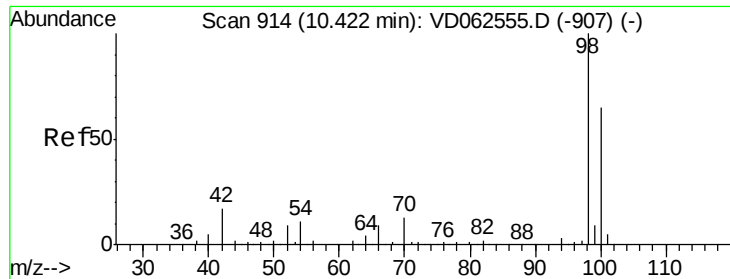


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.05 (42.75 to 43.75): V

Ion 57.95 (57.65 to 58.65): V

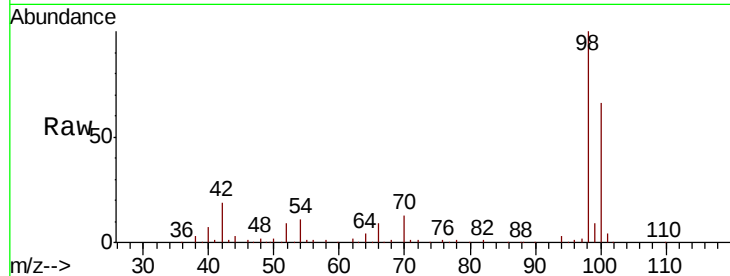




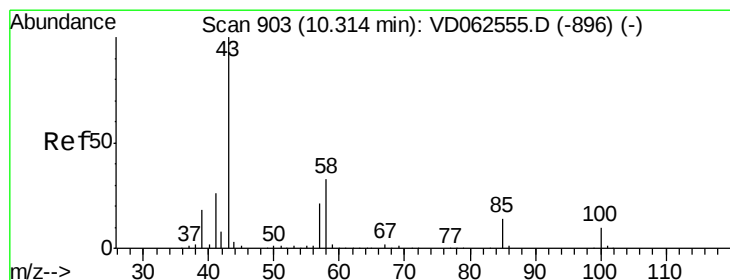
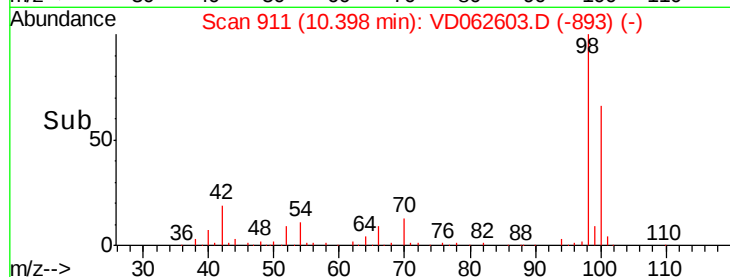
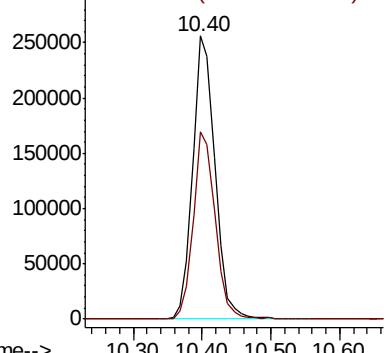
#50
Toluene-d8
Concen: 35.900 ug/l
RT: 10.40 min Scan# 911
Delta R.T. -0.02 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 574414
Ion Ratio Lower Upper
98 100
100 66.4 52.3 78.5

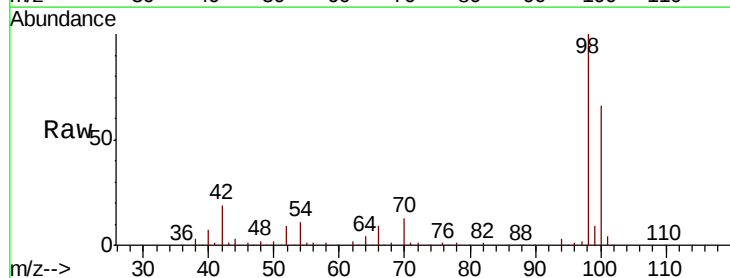


Abundance Ion 98.05 (97.75 to 98.75): VD062555.D (-907) (-)
Ion 100.05 (99.75 to 100.75): VD062555.D (-907) (-)

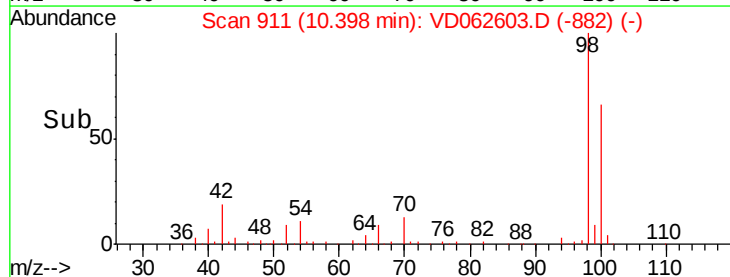
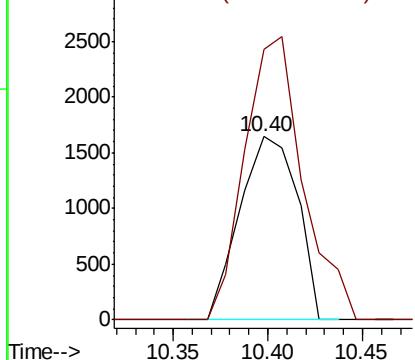


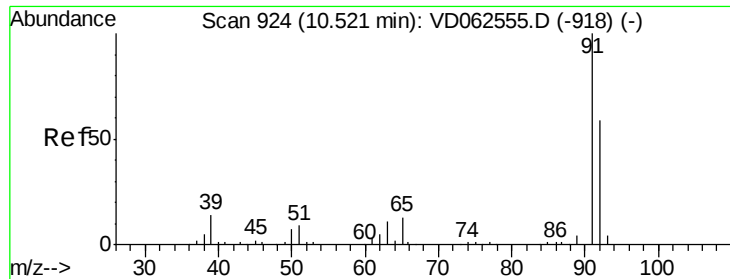
#51
4-Methyl-2-Pentanone
Concen: 1.191 ug/l
RT: 10.40 min Scan# 911
Delta R.T. 0.08 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Tgt Ion: 43 Resp: 3479
Ion Ratio Lower Upper
43 100
58 147.4 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VD062555.D (-896) (-)
Ion 57.95 (57.65 to 58.65): VD062555.D (-896) (-)





#52

Toluene

Concen: 5.035 ug/l

RT: 10.51 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD062603.D

Acq: 4 Jun 2019 17:32

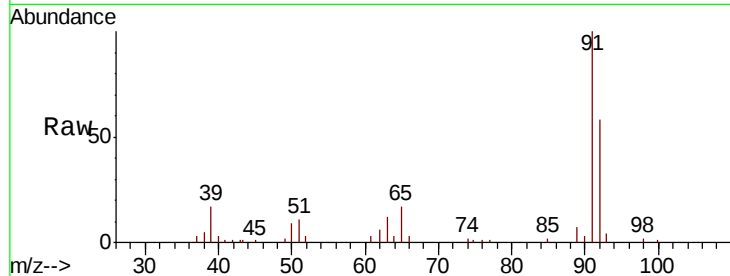
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 92 Resp: 53767

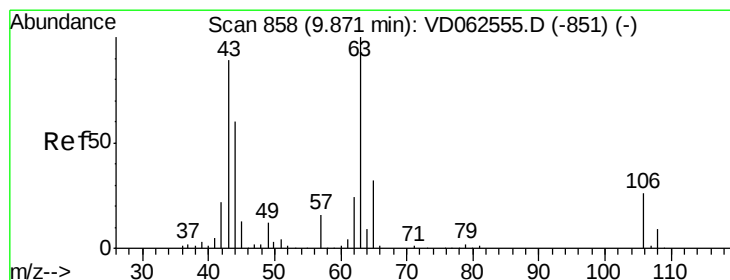
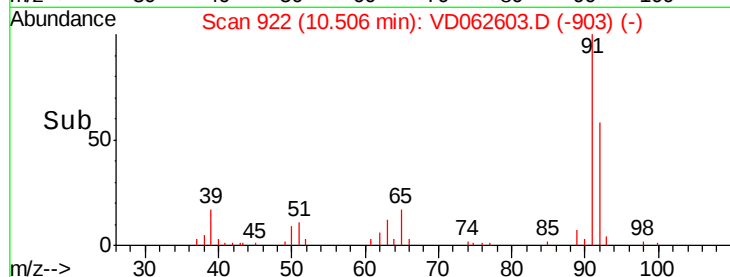
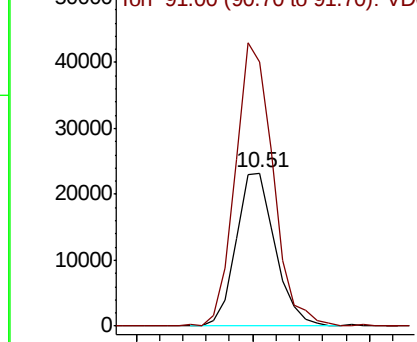
Ion Ratio Lower Upper

92 100

91 172.4 135.5 203.3



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



#58

2-Chloroethyl Vinyl ether

Concen: 1.282 ug/l

RT: 9.86 min Scan# 856

Delta R.T. -0.01 min

Lab File: VD062603.D

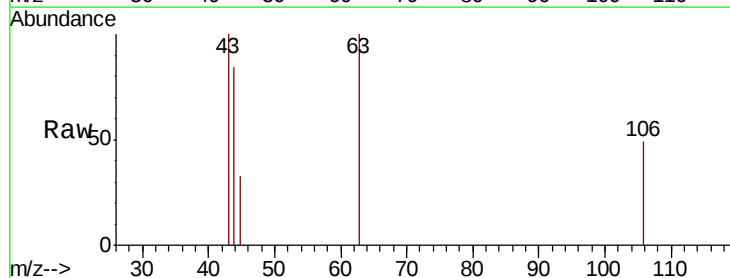
Acq: 4 Jun 2019 17:32

Tgt Ion: 63 Resp: 2457

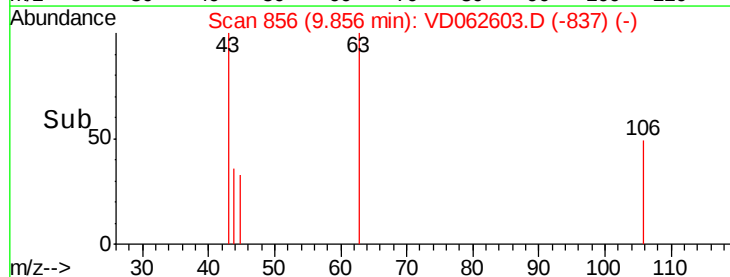
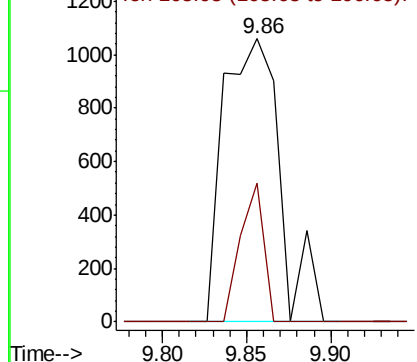
Ion Ratio Lower Upper

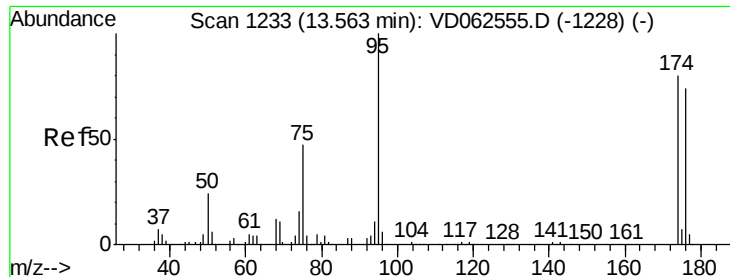
63 100

106 49.2 21.0 31.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 105.95 (105.65 to 106.65): V

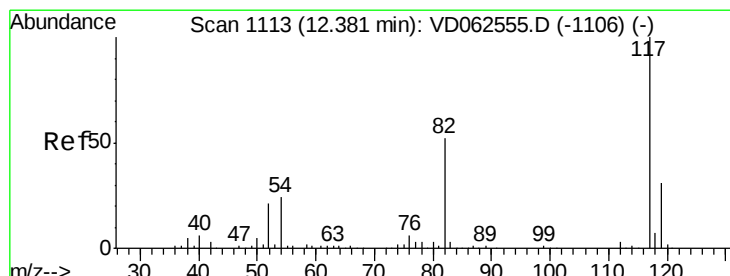
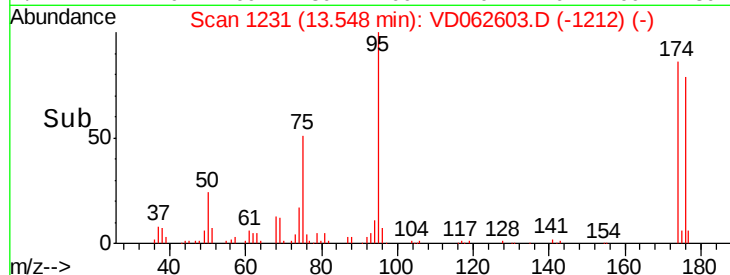
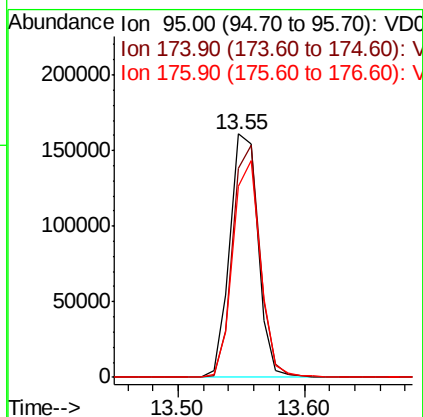
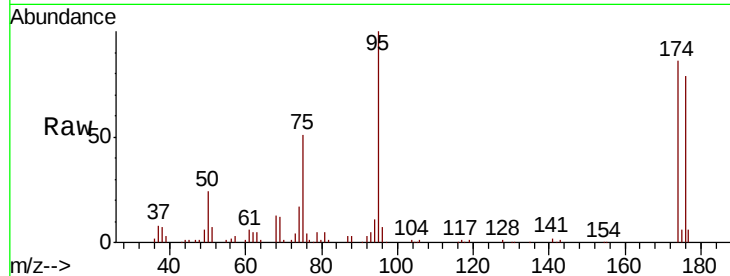




#62
4-Bromofluorobenzene
Concen: 34.393 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

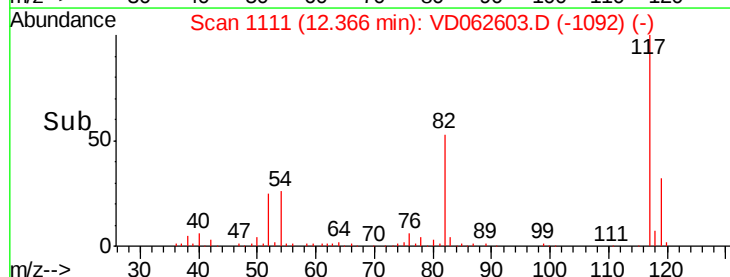
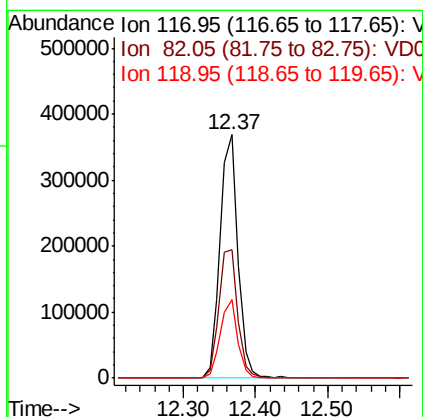
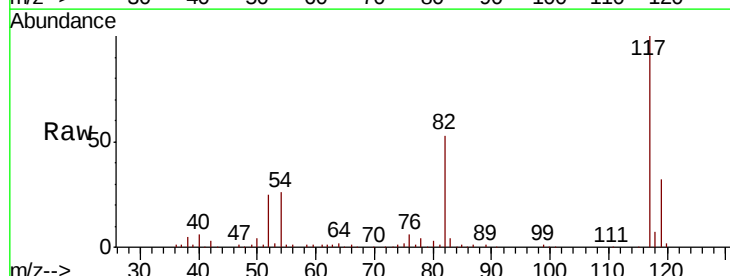
Instrument :
MSVOA_D
ClientSampleId :

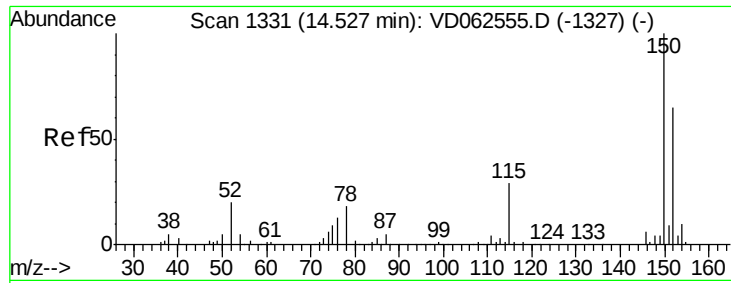
Tot Ion: 95 Resp: 248173
Ion Ratio Lower Upper
95 100
174 85.6 0.0 160.2
176 78.7 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Tgt Ion: 117 Resp: 628746
Ion Ratio Lower Upper
117 100
82 52.8 41.4 62.2
119 32.2 24.9 37.3



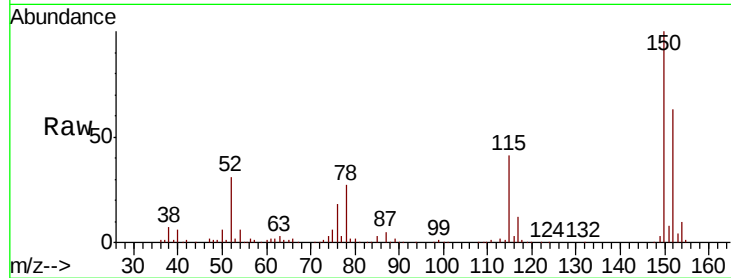


#72

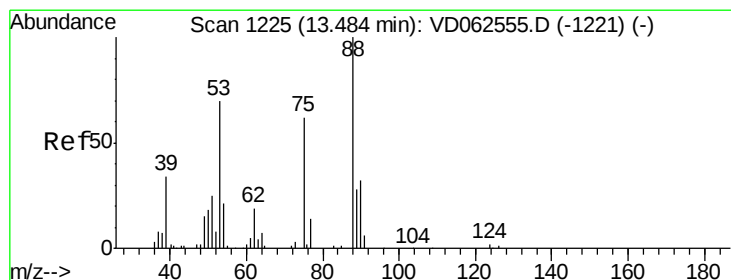
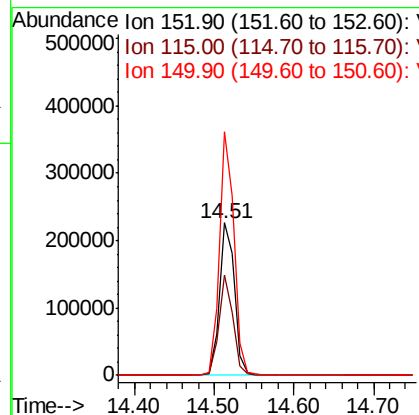
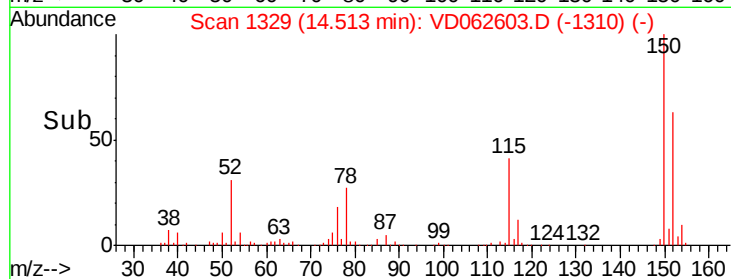
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	65.8	28.4	85.3
150	159.5	0.0	310.4



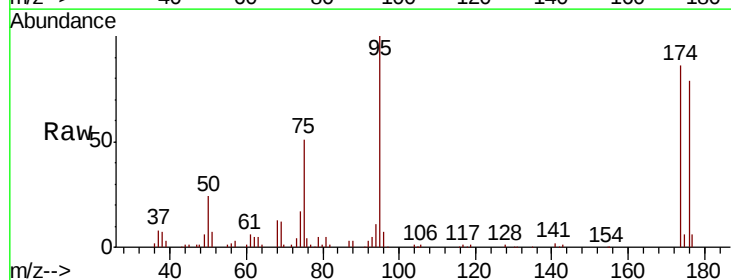
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 117.910 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.06 min
Lab File: VD062603.D
Acq: 4 Jun 2019 17:32

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	91.0	136.4#
89	0.0	36.9	55.3#



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

