

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062719\
 Data File : VD062940.D
 Acq On : 27 Jun 2019 19:11
 Operator : VA/AP
 Sample : K3552-04
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

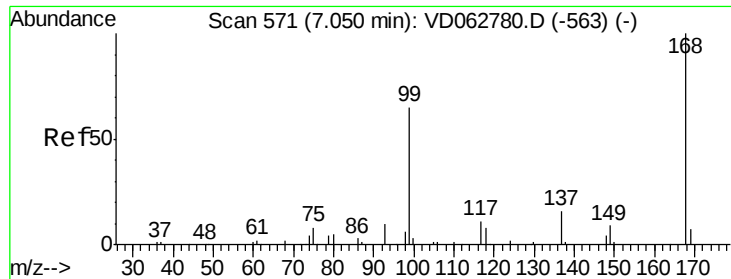
Quant Time: Jun 28 02:22:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	56467	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.19	114	122152	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	141899	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.50	152	87151	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	111276	181.29	ug/l	-0.03
Spiked Amount			Recovery	=	362.58%	
35) Dibromofluoromethane	6.90	113	74214	72.05	ug/l	-0.03
Spiked Amount			Recovery	=	144.10%	
50) Toluene-d8	10.39	98	101578	45.31	ug/l	-0.03
Spiked Amount			Recovery	=	90.62%	
62) 4-Bromofluorobenzene	13.55	95	76480	75.03	ug/l	0.00
Spiked Amount			Recovery	=	150.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.13	94	3544	13.889	ug/l #	13
6) Chloroethane	2.27	64	274	1.111	ug/l #	46
8) Diethyl Ether	2.78	74	187	1.335	ug/l	48
11) Tert butyl alcohol	4.03	59	826	29.548	ug/l #	77
13) Acrolein	3.10	56	200	7.008	ug/l #	15
14) Allyl chloride	3.45	41	1173	1.771	ug/l #	6
16) Acetone	3.21	43	12368	95.028	ug/l	97
18) Methyl Acetate	3.62	43	676	3.648	ug/l #	58
20) Methylene Chloride	3.78	84	3198	6.832	ug/l #	61
25) 2-Butanone	6.14	43	6891	60.028	ug/l #	64
26) 2,2-Dichloropropane	6.15	77	4856	5.225	ug/l #	58
29) Tetrahydrofuran	6.15	42	1634	30.084	ug/l #	33
31) Cyclohexane	7.01	56	1314	2.280	ug/l #	1
37) Ethyl Acetate	6.14	43	6892	13.382	ug/l #	1
38) Carbon Tetrachloride	7.02	117	6142	3.532	ug/l #	13
51) 4-Methyl-2-Pentanone	10.27	43	1887	4.390	ug/l #	41
55) 1,1,2-Trichloroethane	11.21	97	706	1.317	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.54	75	35136	133.251	ug/l #	2
92) 1,2-Dibromo-3-Chloropropan	15.42	75	216	1.215	ug/l #	14

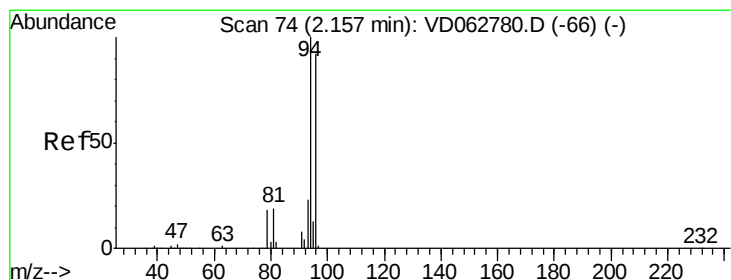
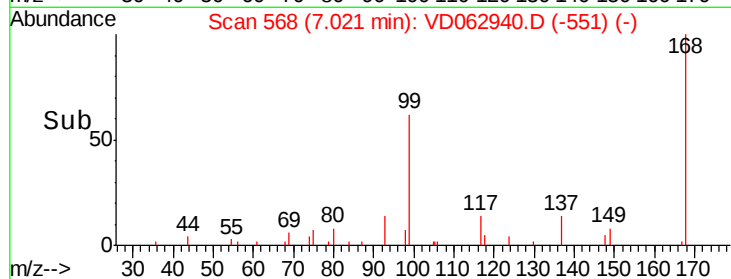
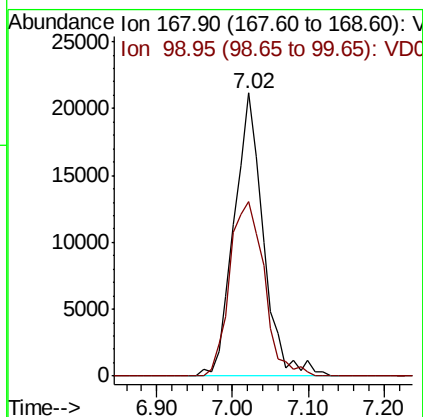
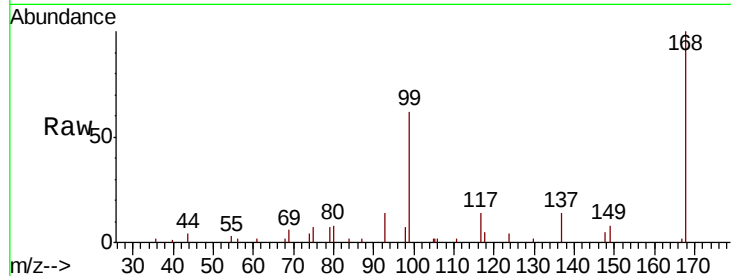
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.03 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

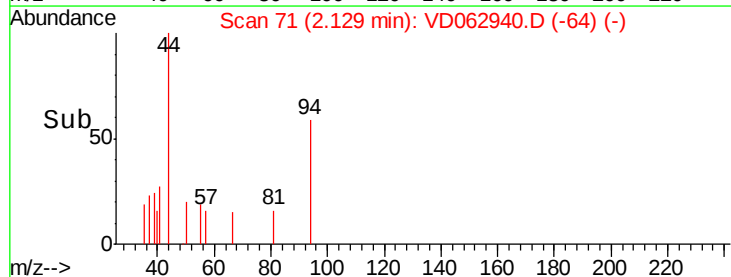
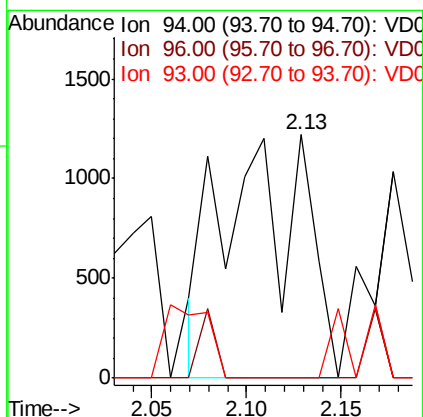
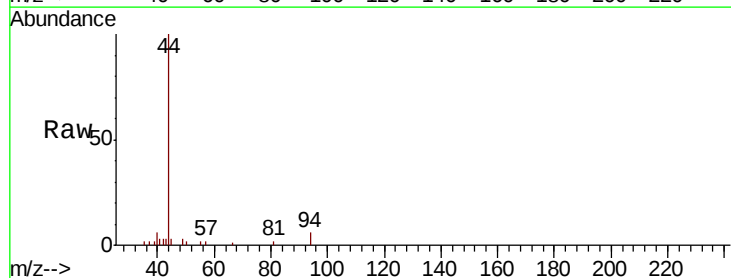
Instrument :
MSVOA_D
ClientSampleId :

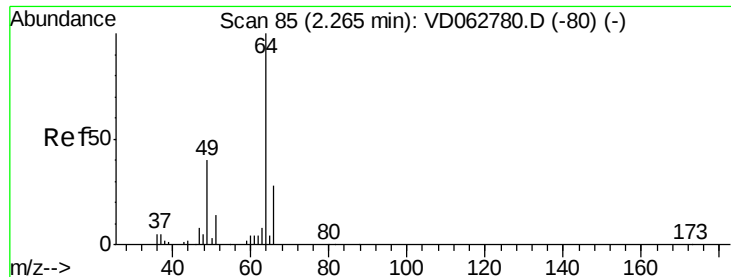
Tot Ion:168 Resp: 56467
Ion Ratio Lower Upper
168 100
99 61.9 53.0 79.6



#5
Bromomethane
Concen: 13.889 ug/l
RT: 2.13 min Scan# 71
Delta R.T. -0.03 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion: 94 Resp: 3544
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.2#
93 0.0 18.2 27.4#





#6

Chloroethane

Concen: 1.111 ug/l

RT: 2.27 min Scan# 85

Delta R.T. 0.00 min

Lab File: VD062940.D

Acq: 27 Jun 2019 19:11

Instrument :

MSVOA_D

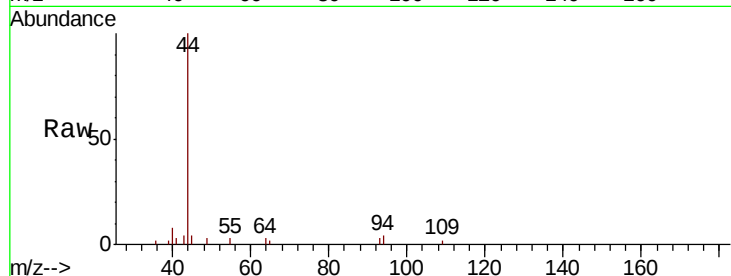
ClientSampleId :

Tot Ion: 64 Resp: 274

Ion Ratio Lower Upper

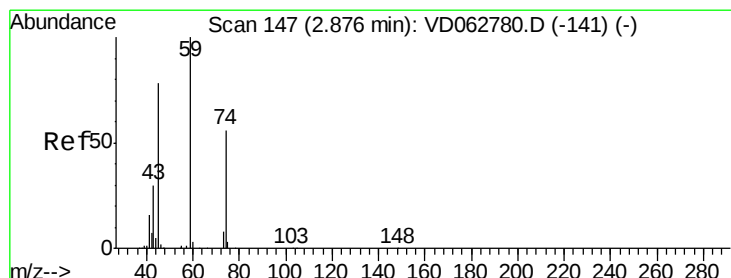
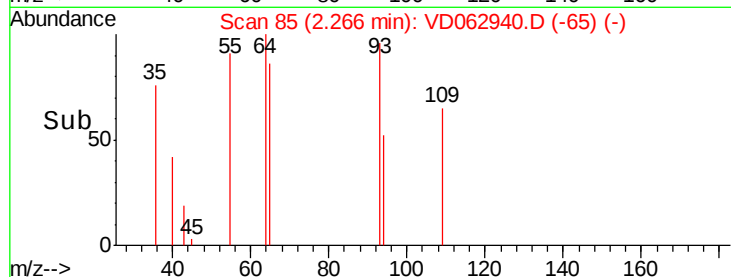
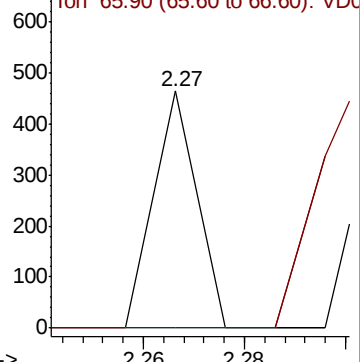
64 100

66 0.0 23.0 34.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 1.335 ug/l

RT: 2.78 min Scan# 137

Delta R.T. -0.10 min

Lab File: VD062940.D

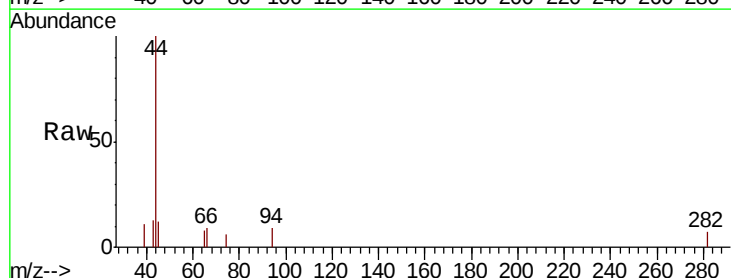
Acq: 27 Jun 2019 19:11

Tgt Ion: 74 Resp: 187

Ion Ratio Lower Upper

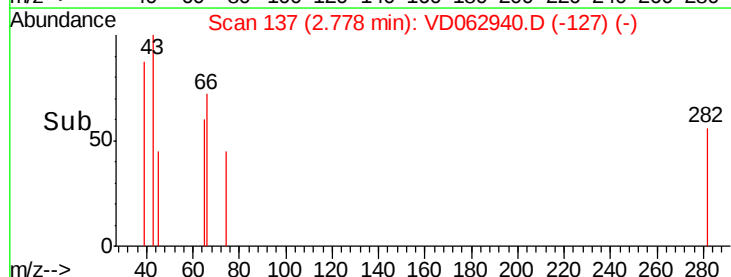
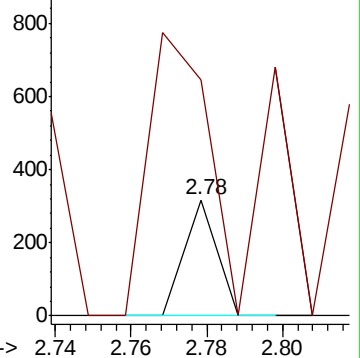
74 100

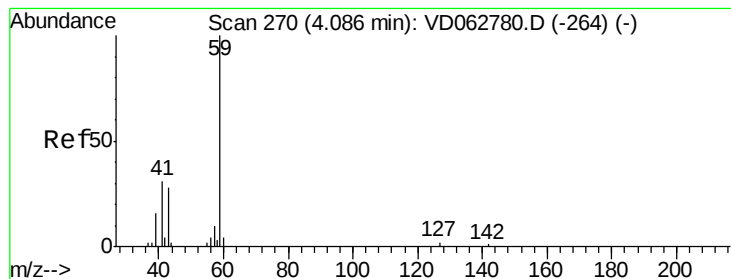
45 204.1 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



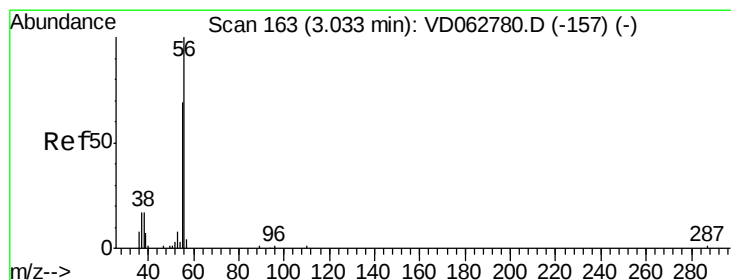
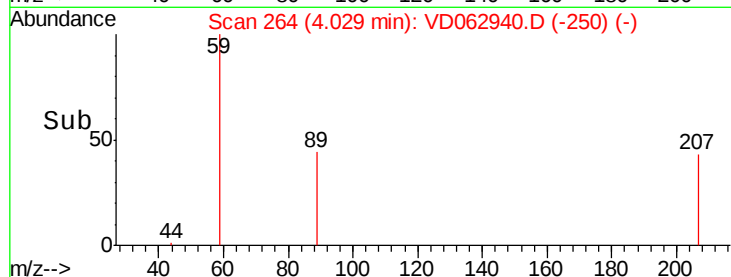
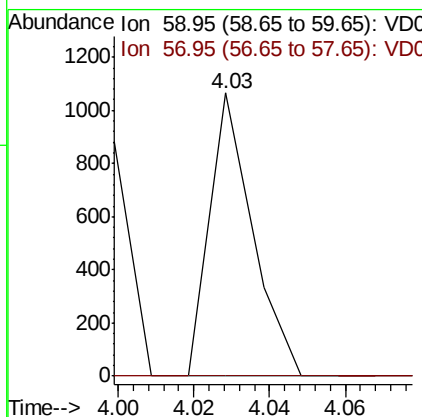
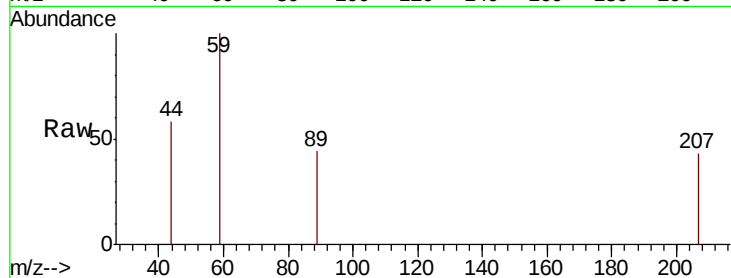


#11

Tert butyl alcohol
 Concen: 29.548 ug/l
 RT: 4.03 min Scan# 264
 Delta R.T. -0.06 min
 Lab File: VD062940.D
 Acq: 27 Jun 2019 19:11

Instrument :
 MSVOA_D
 ClientSampled :

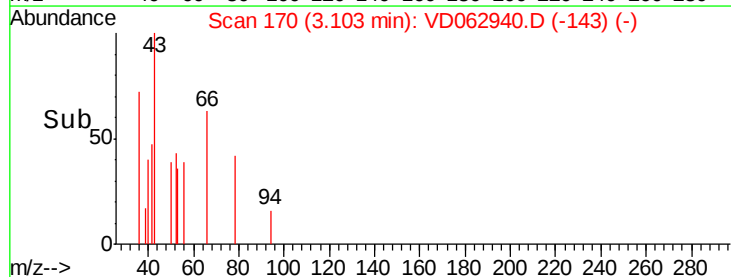
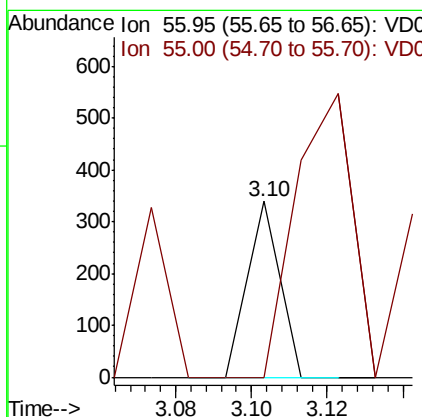
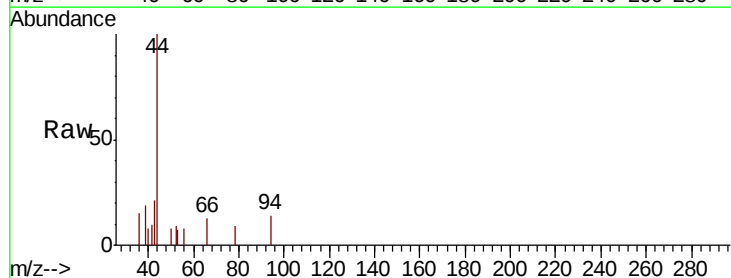
Tot Ion: 59 Resp: 826
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.6 10.0#

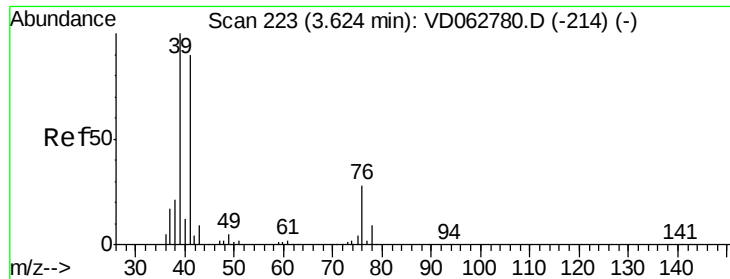


#13

Acrolein
 Concen: 7.008 ug/l
 RT: 3.10 min Scan# 170
 Delta R.T. 0.07 min
 Lab File: VD062940.D
 Acq: 27 Jun 2019 19:11

Tgt Ion: 56 Resp: 200
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.4 83.0#

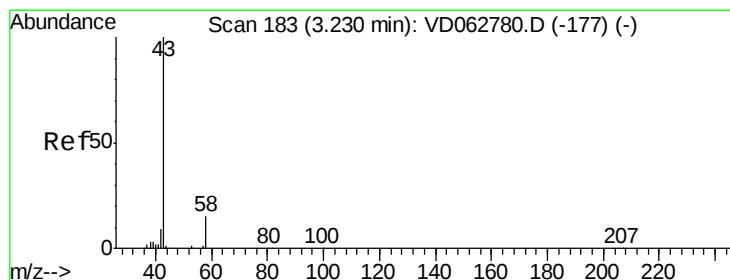
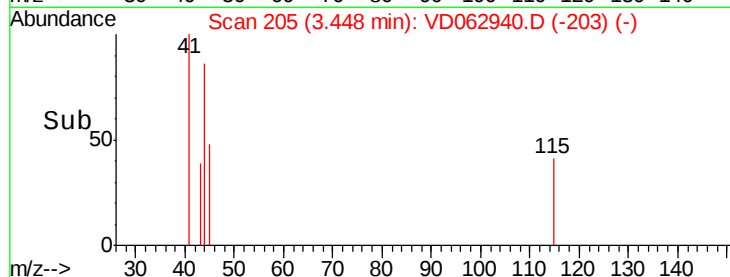
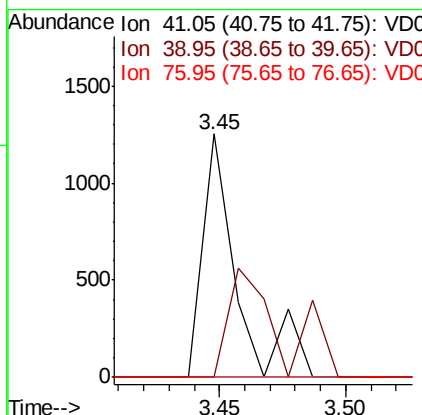
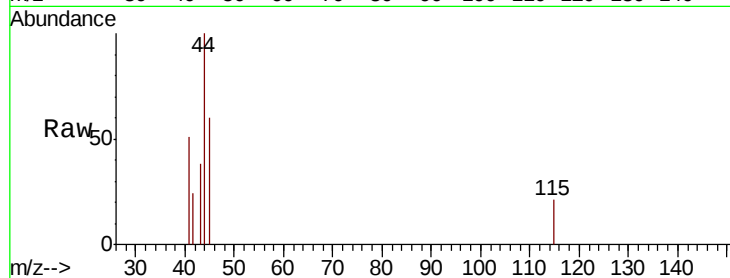




#14
Allvl chloride
Concen: 1.771 ug/l
RT: 3.45 min Scan# 205
Delta R.T. -0.18 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

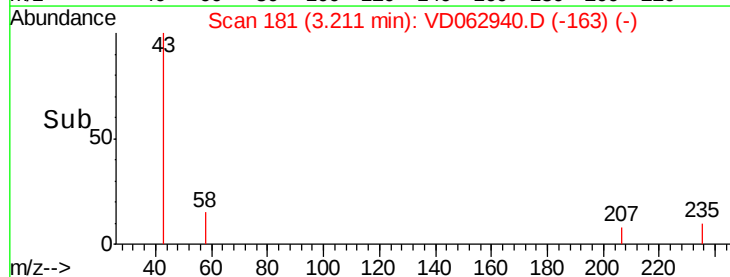
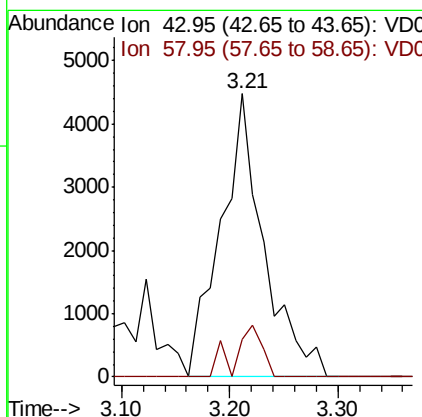
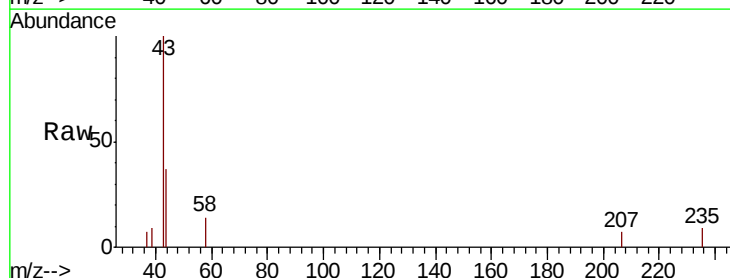
Instrument :
MSVOA_D
ClientSampleId :

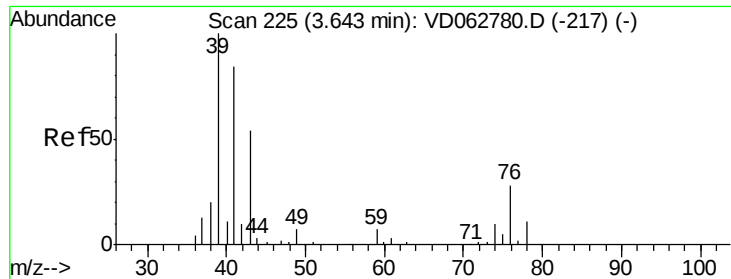
Tot Ion: 41 Resp: 1173
Ion Ratio Lower Upper
41 100
39 0.0 88.8 133.2#
76 0.0 26.7 40.1#



#16
Acetone
Concen: 95.028 ug/l
RT: 3.21 min Scan# 181
Delta R.T. -0.02 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion: 43 Resp: 12368
Ion Ratio Lower Upper
43 100
58 13.5 11.9 17.9

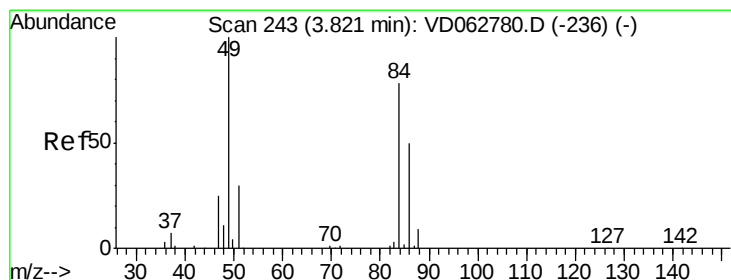
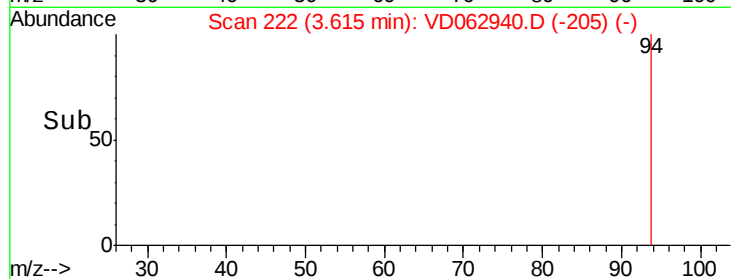
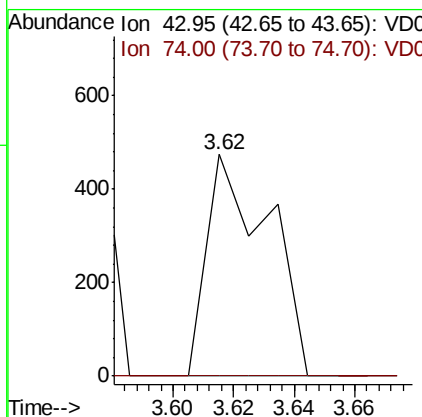
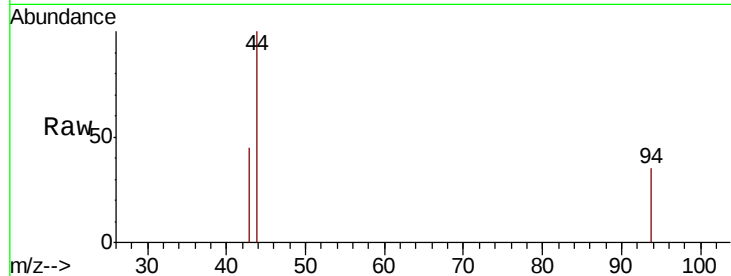




#18
Methyl Acetate
Concen: 3.648 ug/l
RT: 3.62 min Scan# 222
Delta R.T. -0.03 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

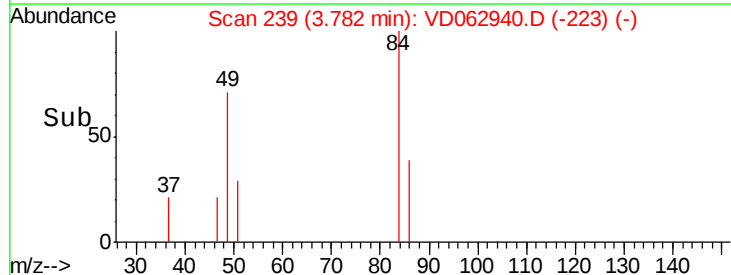
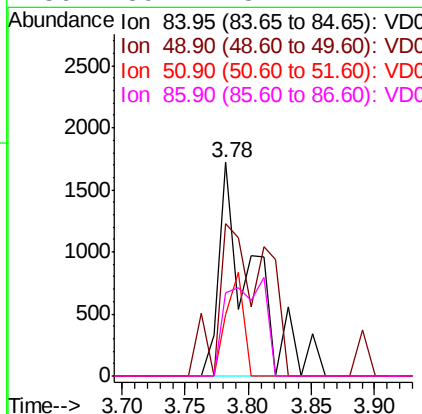
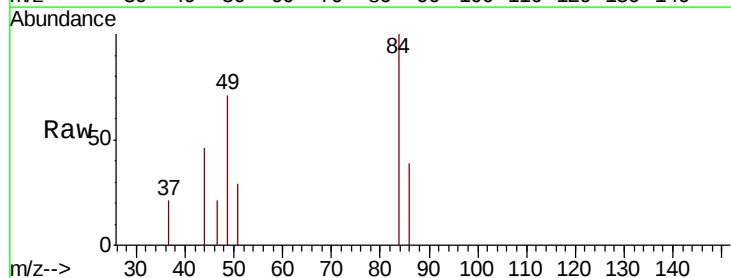
Instrument :
MSVOA_D
ClientSampleId :

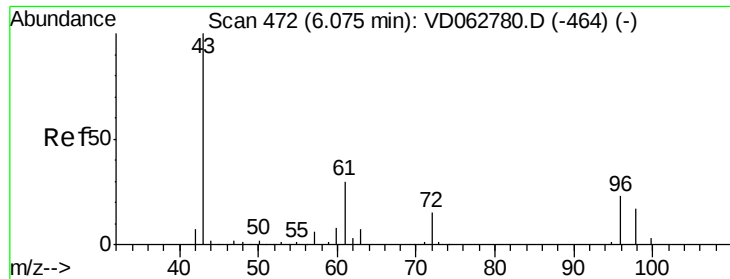
Tot Ion: 43 Resp: 676
Ion Ratio Lower Upper
43 100
74 0.0 15.2 22.8#



#20
Methylene Chloride
Concen: 6.832 ug/l
RT: 3.78 min Scan# 239
Delta R.T. -0.04 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion: 84 Resp: 3198
Ion Ratio Lower Upper
84 100
49 71.3 102.9 154.3#
51 28.9 31.2 46.8#
86 39.2 51.4 77.2#





#25

2-Butanone

Concen: 60.028 ug/l

RT: 6.14 min Scan# 478

Delta R.T. 0.06 min

Lab File: VD062940.D

Acq: 27 Jun 2019 19:11

Instrument :

MSVOA_D

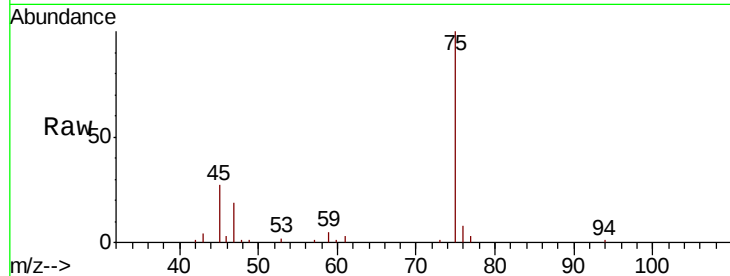
ClientSampled :

Tot Ion: 43 Resp: 6891

Ion Ratio Lower Upper

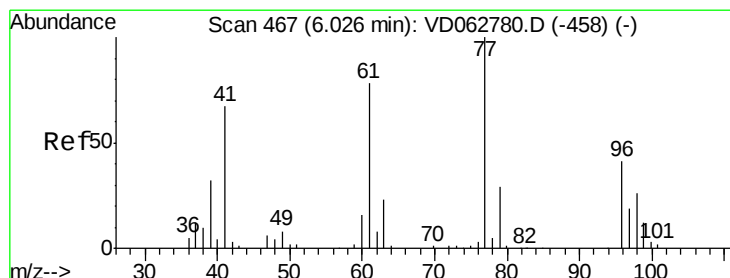
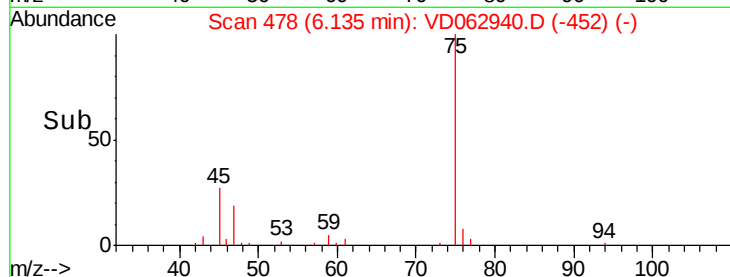
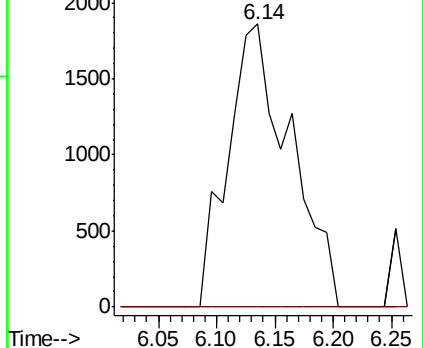
43 100

72 0.0 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 5.225 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.13 min

Lab File: VD062940.D

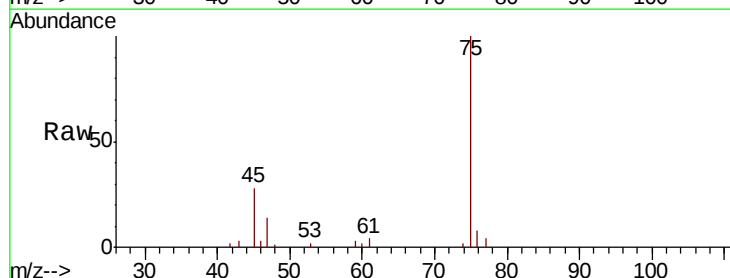
Acq: 27 Jun 2019 19:11

Tgt Ion: 77 Resp: 4856

Ion Ratio Lower Upper

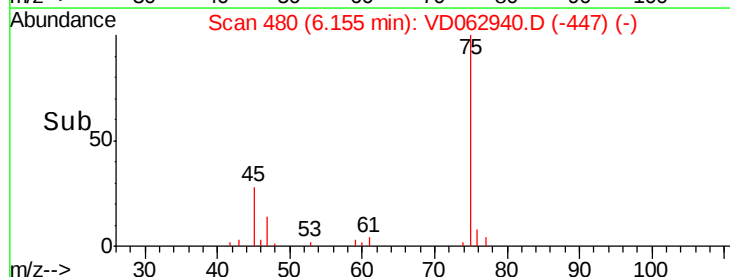
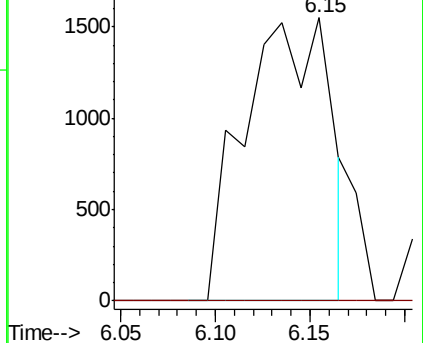
77 100

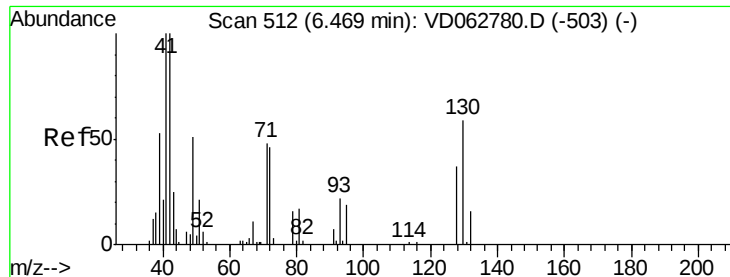
97 0.0 9.5 28.5#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

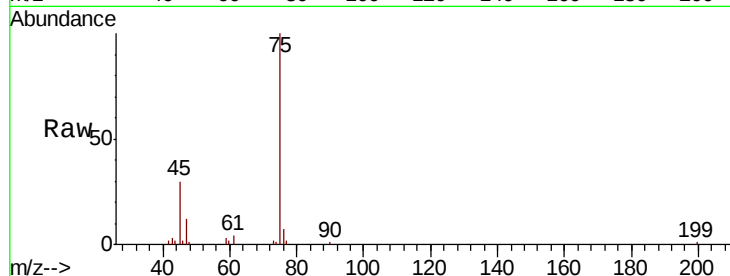




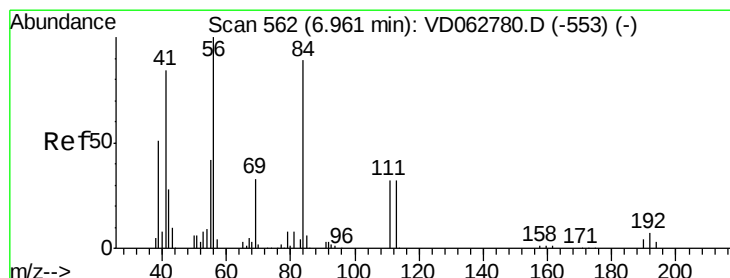
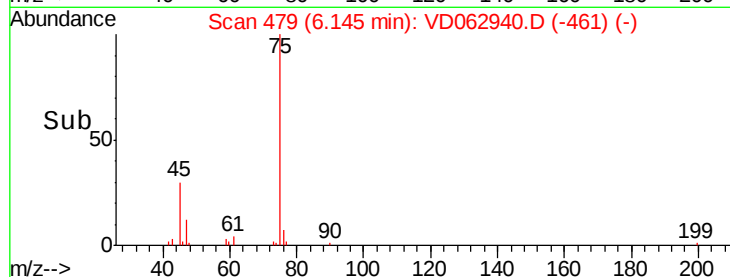
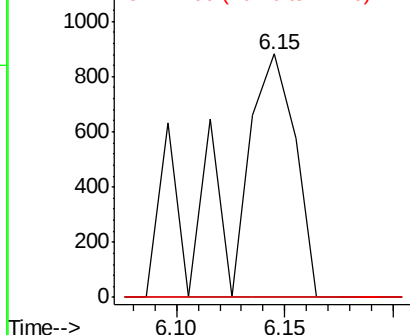
#29
Tetrahydrofuran
Concen: 30.084 ug/l
RT: 6.15 min Scan# 479
Delta R.T. -0.32 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.0	52.6#
71	0.0	33.3	49.9#

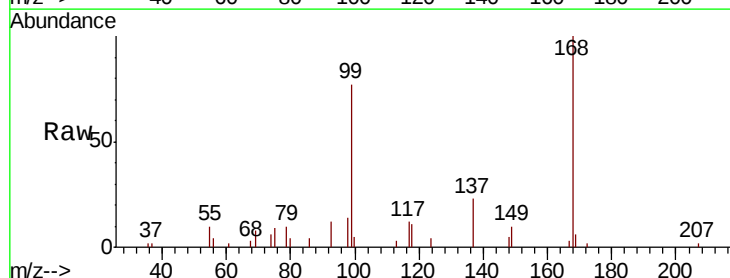


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

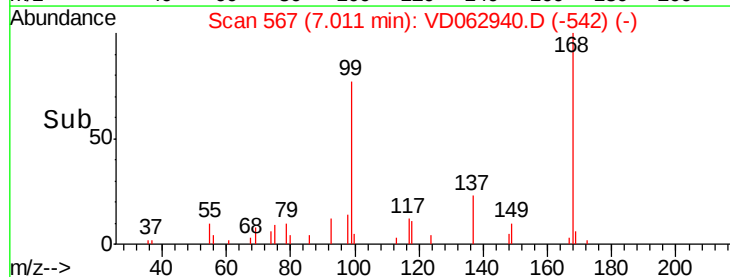
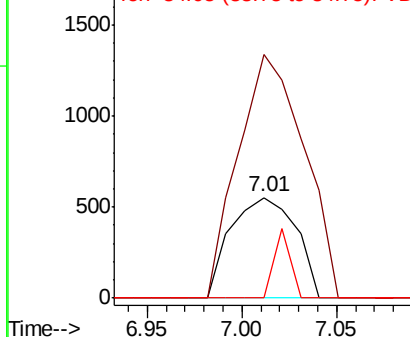


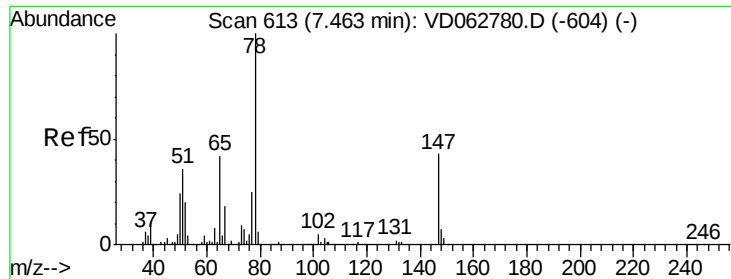
#31
Cyclohexane
Concen: 2.280 ug/l
RT: 7.01 min Scan# 567
Delta R.T. 0.05 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion	Ratio	Lower	Upper
56	100		
69	241.3	26.6	39.8#
84	0.0	75.5	113.3#



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

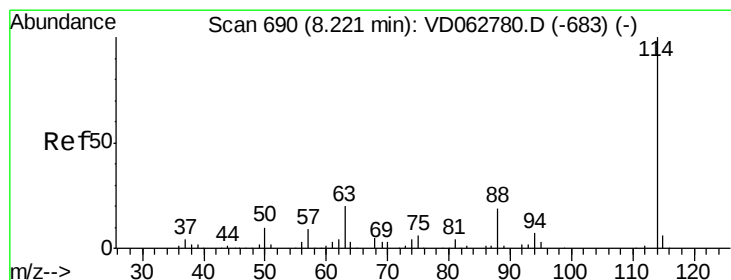
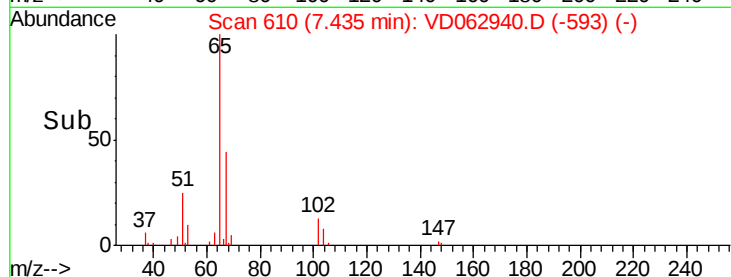
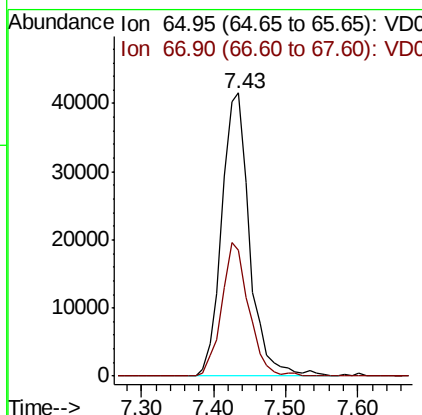
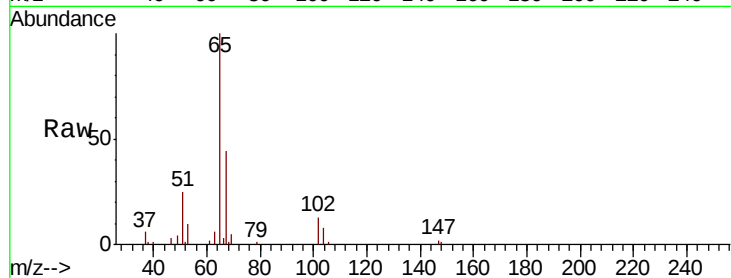




#33
 1,2-Dichloroethane-d4
 Concen: 181.294 ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. -0.03 min
 Lab File: VD062940.D
 Acq: 27 Jun 2019 19:11

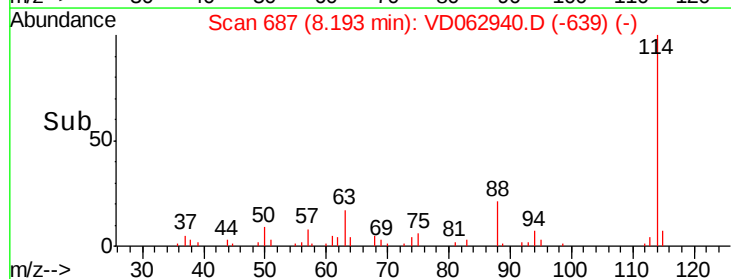
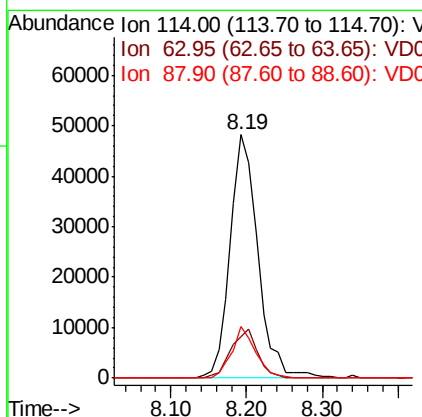
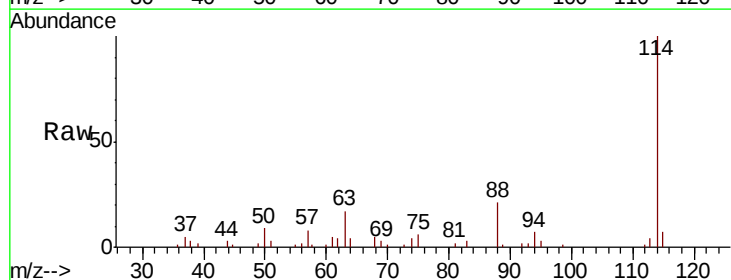
Instrument :
 MSVOA_D
 ClientSampleId :

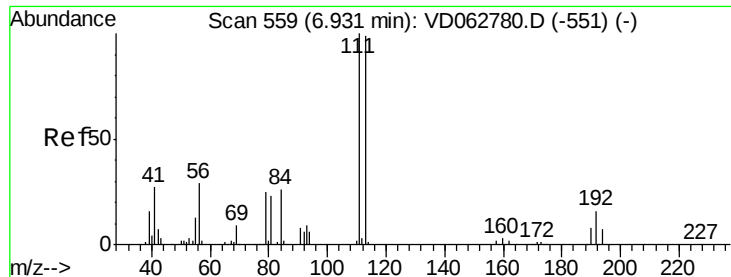
Tot Ion: 65 Resp: 111276
 Ion Ratio Lower Upper
 65 100
 67 44.3 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 687
 Delta R.T. -0.03 min
 Lab File: VD062940.D
 Acq: 27 Jun 2019 19:11

Tgt Ion: 114 Resp: 122152
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 40.0
 88 21.4 0.0 38.8

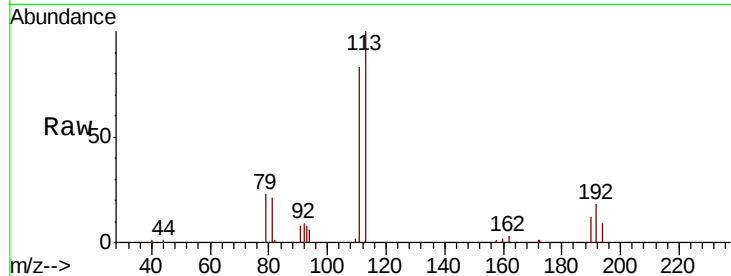




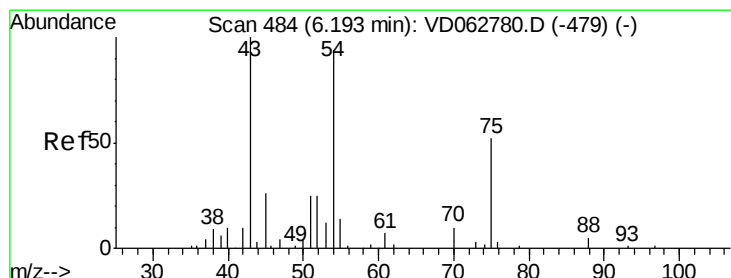
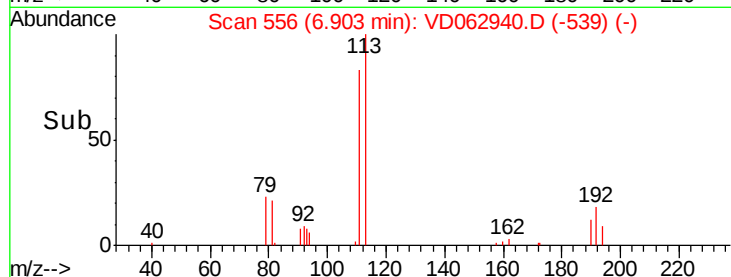
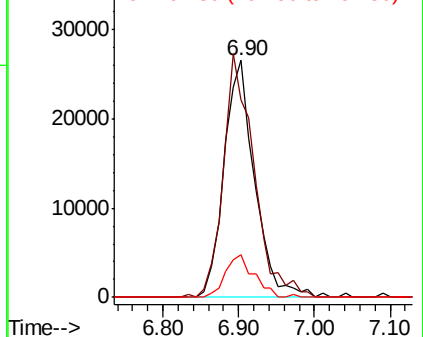
#35
Dibromofluoromethane
Concen: 72.054 ug/l
RT: 6.90 min Scan# 556
Delta R.T. -0.03 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:113 Resp: 74214
Ion Ratio Lower Upper
113 100
111 83.1 81.2 121.8
192 17.8 12.9 19.3

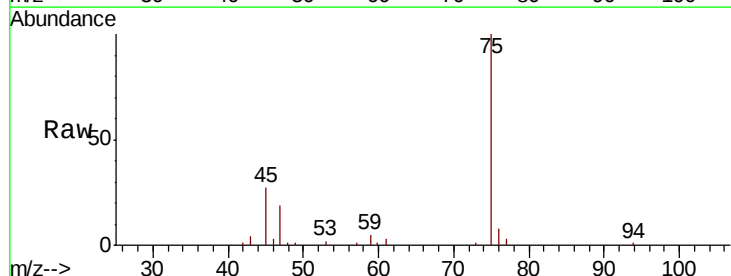


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

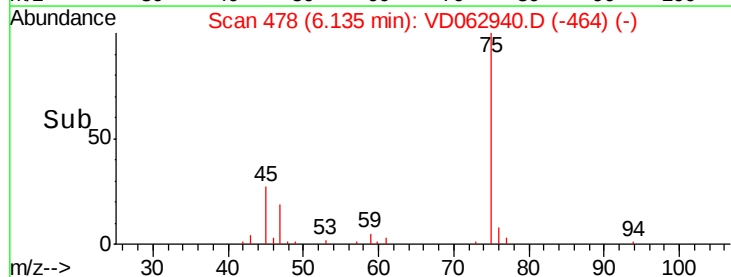
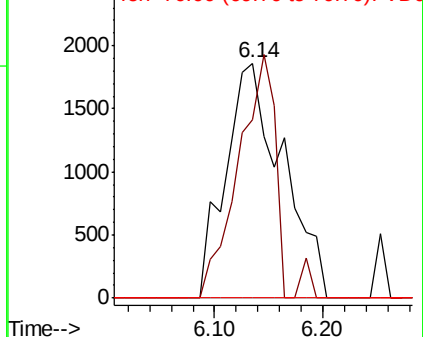


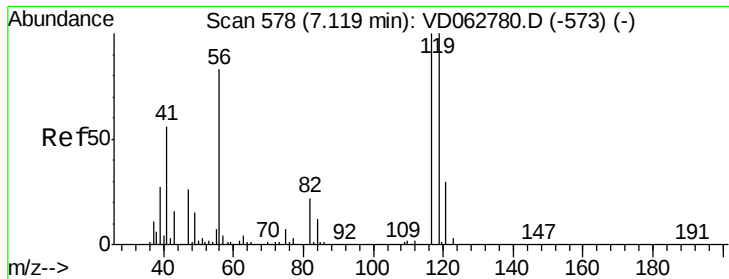
#37
Ethyl Acetate
Concen: 13.382 ug/l
RT: 6.14 min Scan# 478
Delta R.T. -0.06 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion: 43 Resp: 6892
Ion Ratio Lower Upper
43 100
61 76.1 11.6 17.4#
70 0.0 6.4 9.6#



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

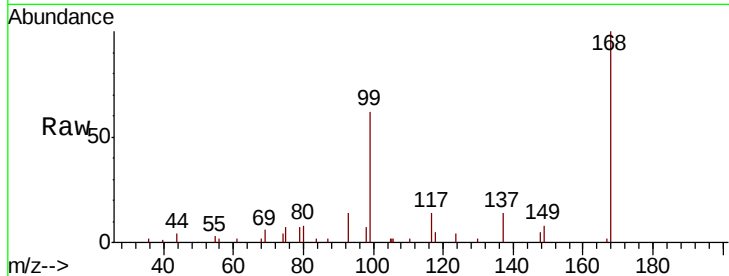




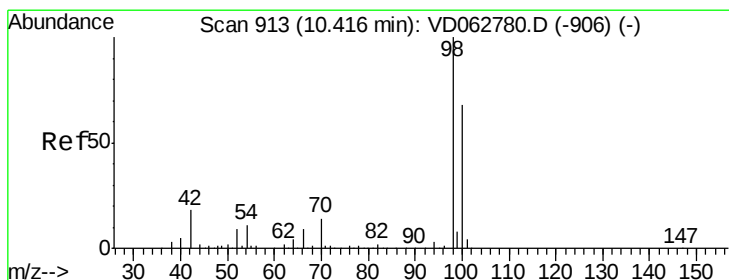
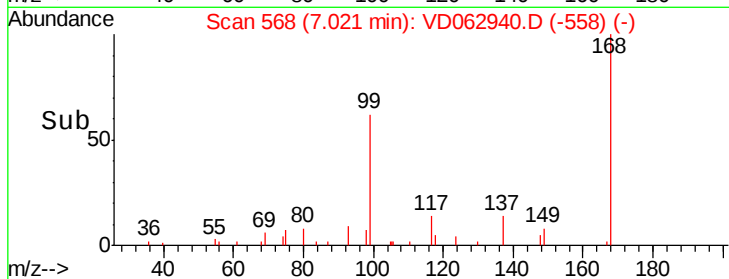
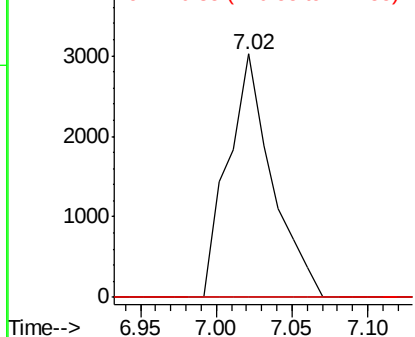
#38
Carbon Tetrachloride
Concen: 3.532 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.10 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 6142
Ion Ratio Lower Upper
117 100
119 0.0 75.4 113.2#
121 0.0 22.3 33.5#

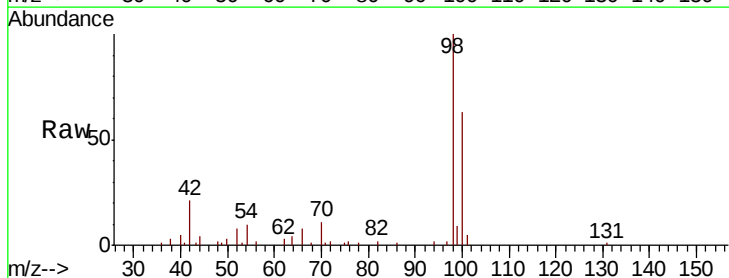


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

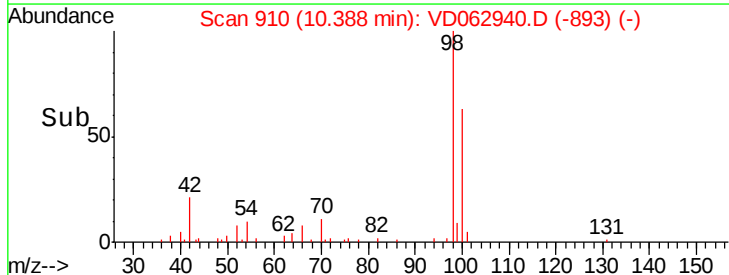
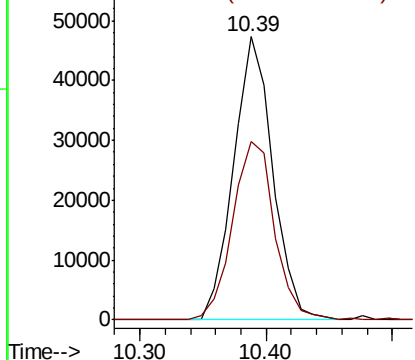


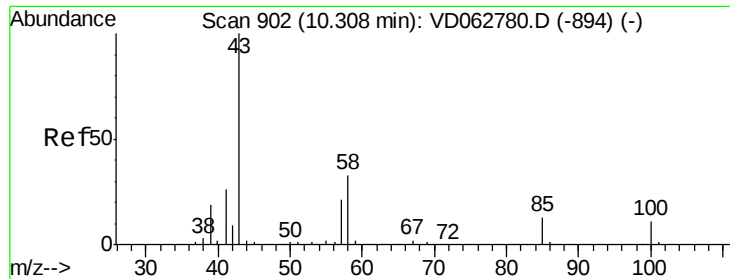
#50
Toluene-d8
Concen: 45.313 ug/l
RT: 10.39 min Scan# 910
Delta R.T. -0.03 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion: 98 Resp: 101578
Ion Ratio Lower Upper
98 100
100 63.2 54.7 82.1



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

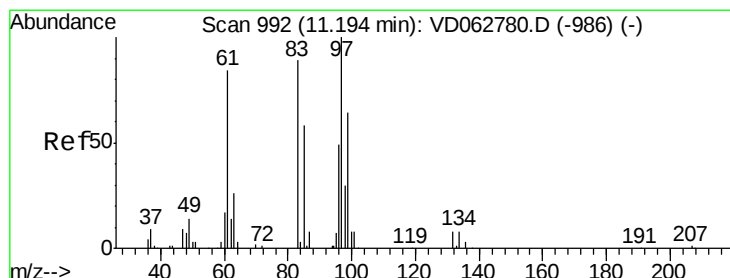
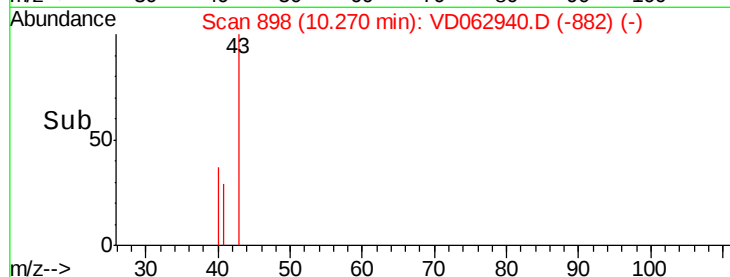
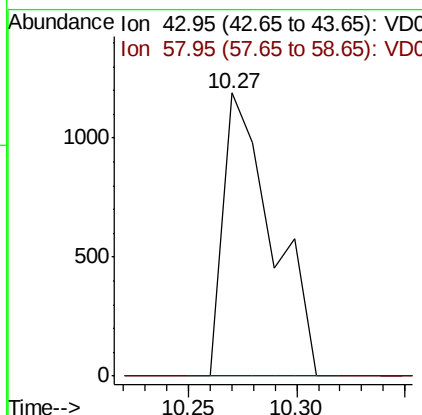
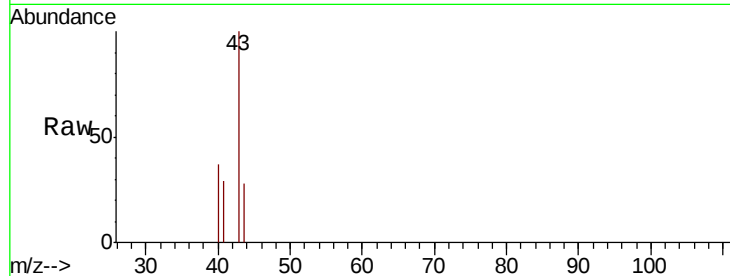




#51
4-Methyl-2-Pentanone
Concen: 4.390 ug/l
RT: 10.27 min Scan# 898
Delta R.T. -0.04 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

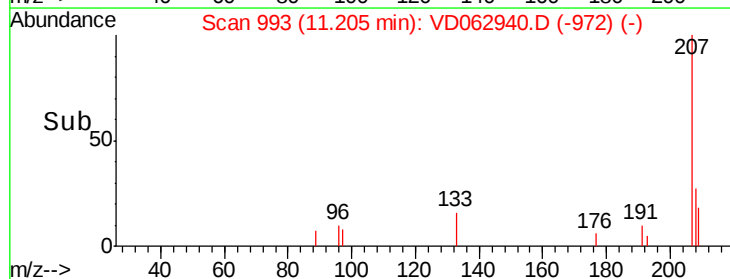
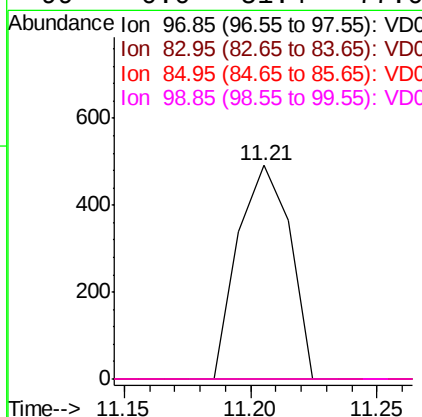
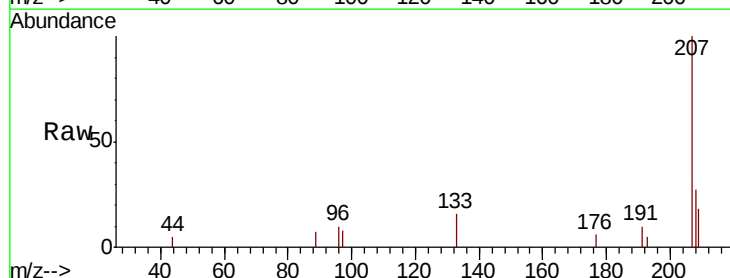
Instrument :
MSVOA_D
ClientSampleId :

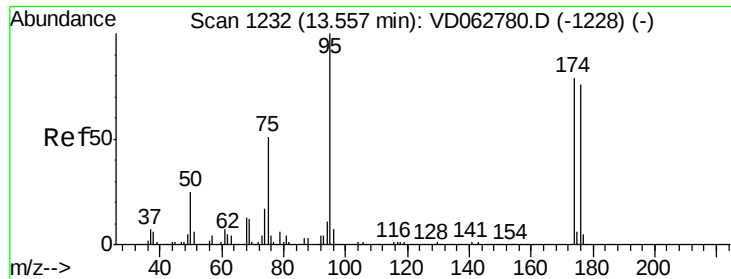
Tot Ion: 43 Resp: 1887
Ion Ratio Lower Upper
43 100
58 0.0 26.6 40.0#



#55
1,1,2-Trichloroethane
Concen: 1.317 ug/l
RT: 11.21 min Scan# 993
Delta R.T. 0.01 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion: 97 Resp: 706
Ion Ratio Lower Upper
97 100
83 0.0 71.0 106.4#
85 0.0 46.6 69.8#
99 0.0 51.4 77.0#





#62

4-Bromofluorobenzene

Concen: 75.030 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD062940.D

Acq: 27 Jun 2019 19:11

Instrument :

MSVOA_D

ClientSampleId :

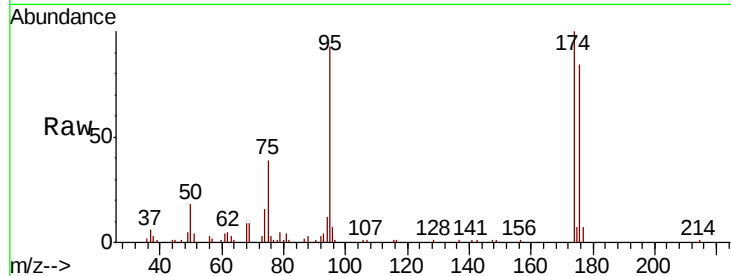
Tot Ion: 95 Resp: 76480

Ion Ratio Lower Upper

95 100

174 107.3 0.0 158.0

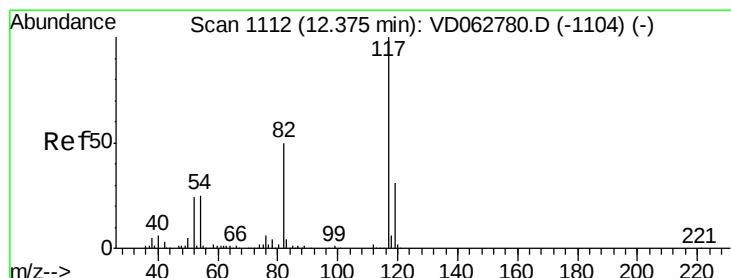
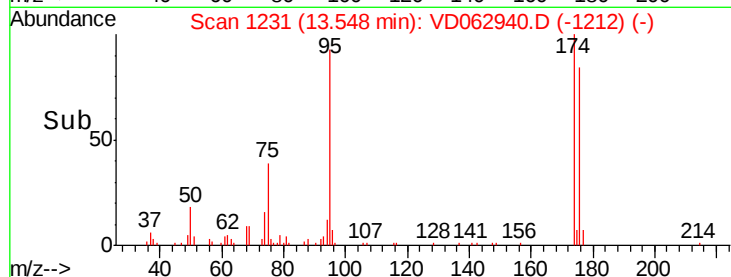
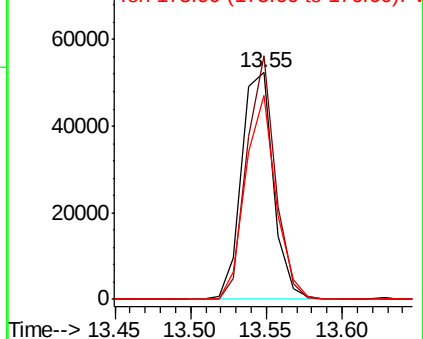
176 89.8 0.0 151.6



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: 12.36 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VD062940.D

Acq: 27 Jun 2019 19:11

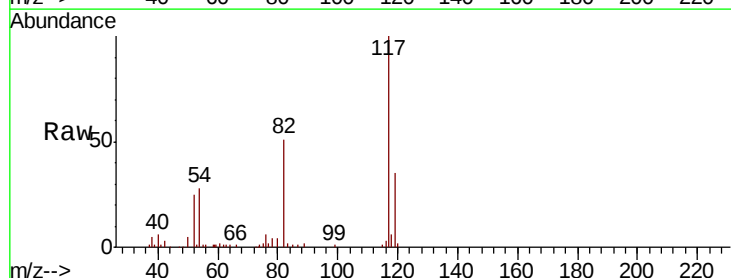
Tgt Ion: 117 Resp: 141899

Ion Ratio Lower Upper

117 100

82 51.1 40.4 60.6

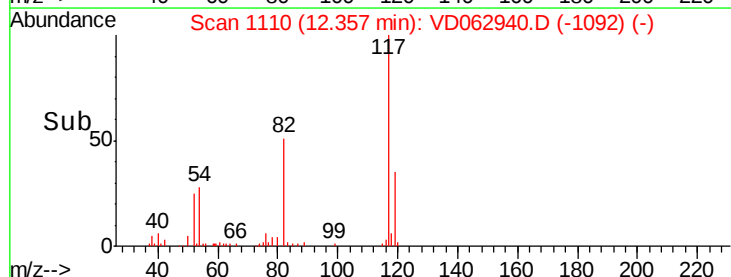
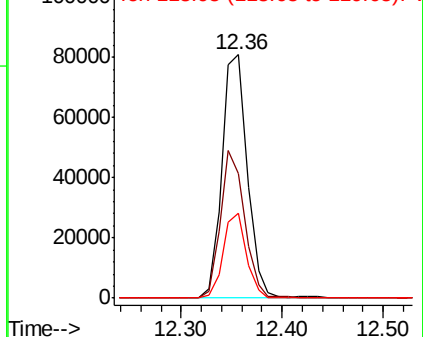
119 35.0 25.2 37.8

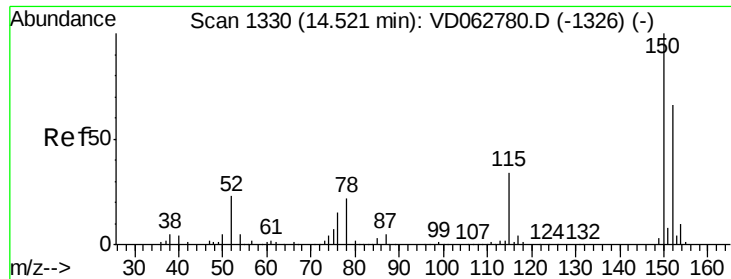


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



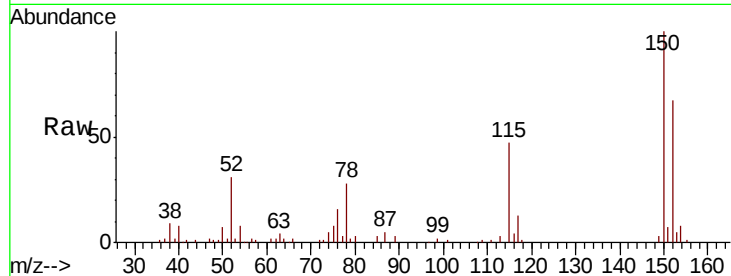


#72

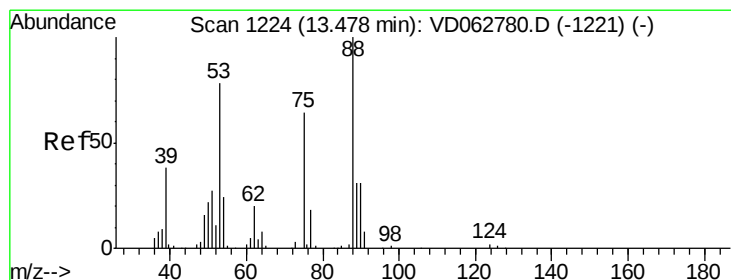
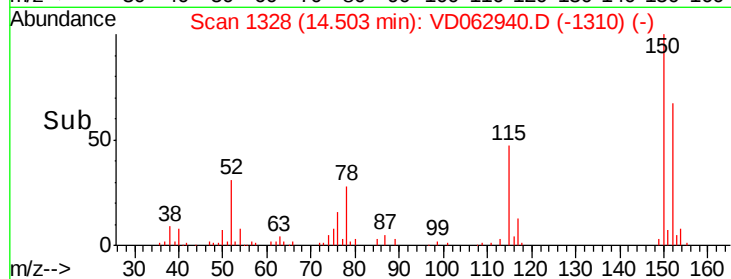
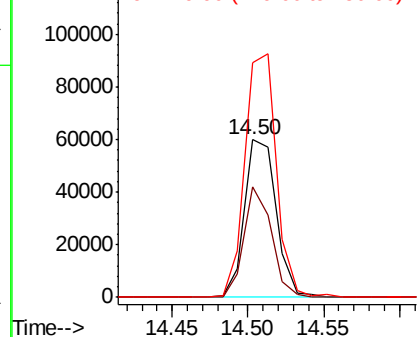
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.02 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 87151
Ion Ratio Lower Upper
152 100
115 70.1 29.2 87.6
150 148.7 0.0 305.8



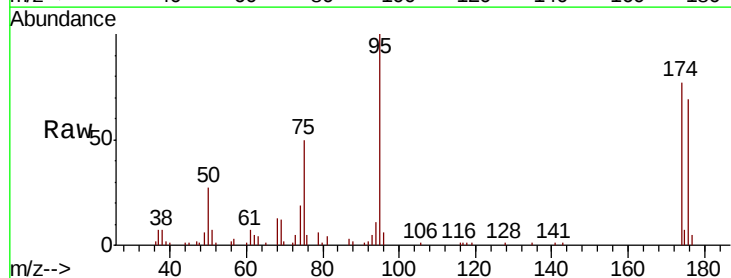
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



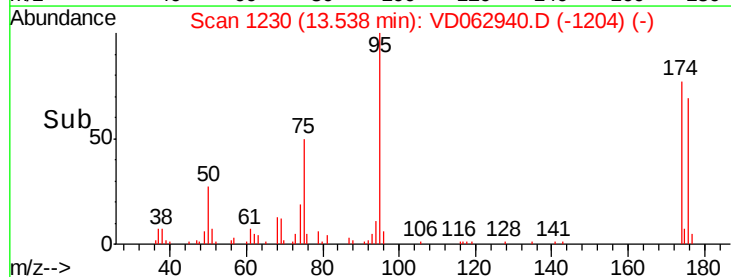
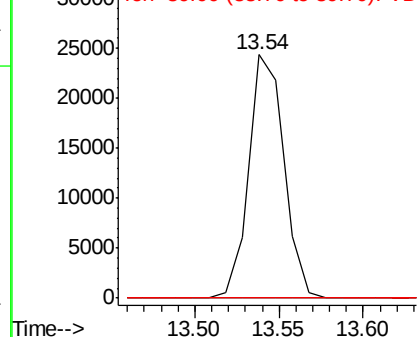
#81

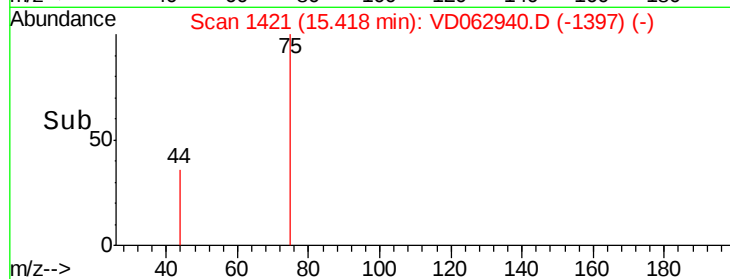
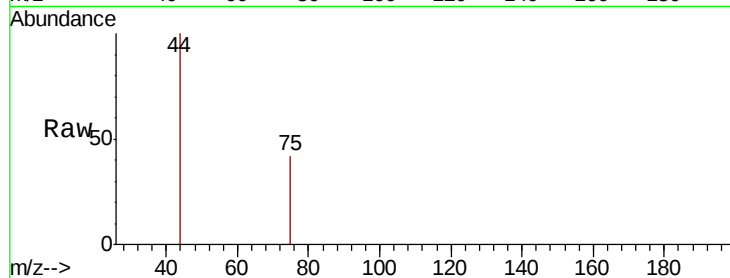
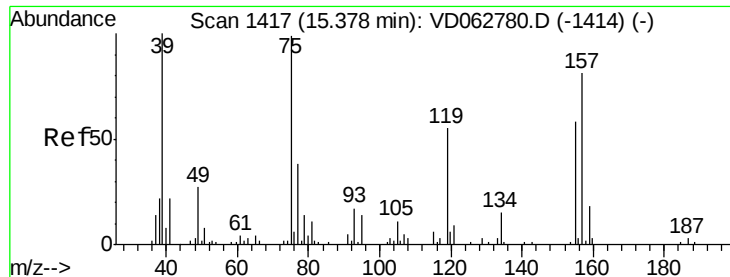
trans-1,4-Dichloro-2-butene
Concen: 133.251 ug/l
RT: 13.54 min Scan# 1230
Delta R.T. 0.06 min
Lab File: VD062940.D
Acq: 27 Jun 2019 19:11

Tgt Ion: 75 Resp: 35136
Ion Ratio Lower Upper
75 100
53 0.0 97.8 146.8#
89 0.0 39.4 59.2#



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: 1.215 ug/l

RT: 15.42 min Scan# 1421

Delta R.T. 0.04 min

Lab File: VD062940.D

Acq: 27 Jun 2019 19:11

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 216

Ion Ratio Lower Upper

75 100

155 0.0 29.3 87.8#

157 0.0 41.3 123.7#

