

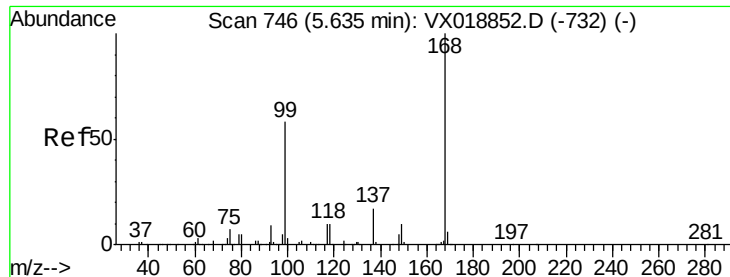
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100920\
 Data File : VX018866.D
 Acq On : 09 Oct 2020 19:39
 Operator : JC/SP
 Sample : L4317-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 10 06:21:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 06:09:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	213478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	348589	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	336115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	176739	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	163733	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	
35) Dibromofluoromethane	5.46	113	123310	49.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.28%	
50) Toluene-d8	8.70	98	426128	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.12	95	165062	48.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.12%	
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.18	85	108	1.660	ug/l #	60
3) Chloromethane	1.31	50	413	0.206	ug/l #	77
6) Chloroethane	1.72	64	307	0.205	ug/l #	44
8) Diethyl Ether	2.18	74	992	1.821	ug/l	87
10) Methyl Iodide	2.50	142	51	4.012	ug/l #	34
11) Tert butyl alcohol	3.00	59	1119	2.257	ug/l #	92
12) 1,1-Dichloroethene	2.36	96	96	0.753	ug/l #	59
13) Acrolein	2.26	56	290	0.703	ug/l #	66
16) Acetone	2.42	43	5356	Below Cal	#	86
20) Methylene Chloride	2.84	84	6064	3.177	ug/l #	88
28) Bromochloromethane	5.00	49	153	1.600	ug/l #	56
29) Tetrahydrofuran	5.10	42	650	0.710	ug/l #	72
36) 1,1-Dichloropropene	5.63	75	17267	4.711	ug/l #	49
38) Carbon Tetrachloride	5.64	117	23455	5.163	ug/l #	17
49) 1,4-Dioxane	7.74	88	86	2.055	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	1131	0.329	ug/l #	78
56) Ethyl methacrylate	9.16	69	29	2.941	ug/l #	1
64) Tetrachloroethene	9.32	164	188	Below Cal	#	54
76) 1,2,3-Trichloropropane	11.12	75	86565	22.731	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	86565	64.420	ug/l #	8
95) Naphthalene	13.82	128	695	3.132	ug/l #	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

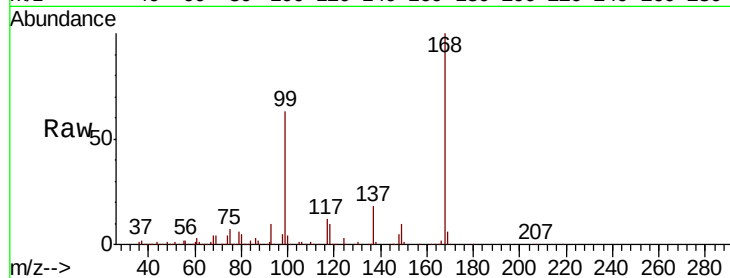
ClientSampleId :

Tot Ion:168 Resp: 213478

Ion Ratio Lower Upper

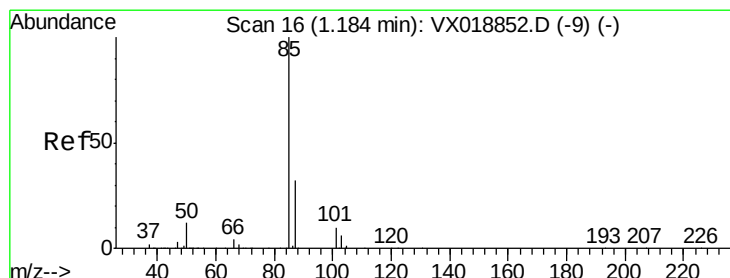
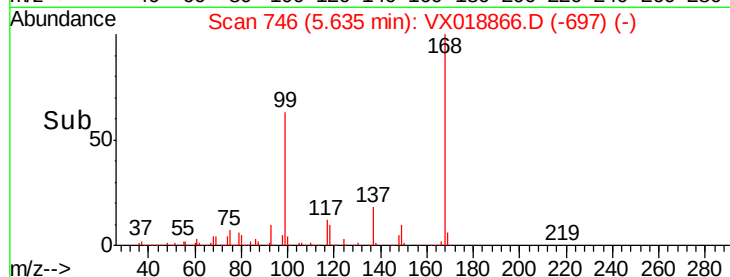
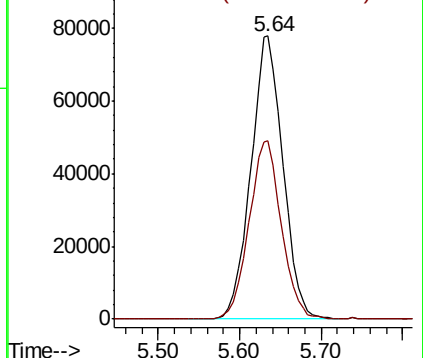
168 100

99 62.8 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 1.660 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018866.D

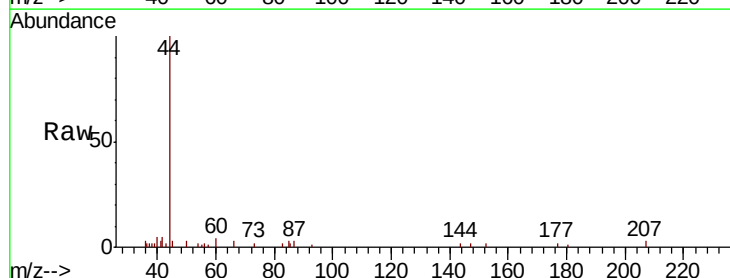
Acq: 09 Oct 2020 19:39

Tgt Ion: 85 Resp: 108

Ion Ratio Lower Upper

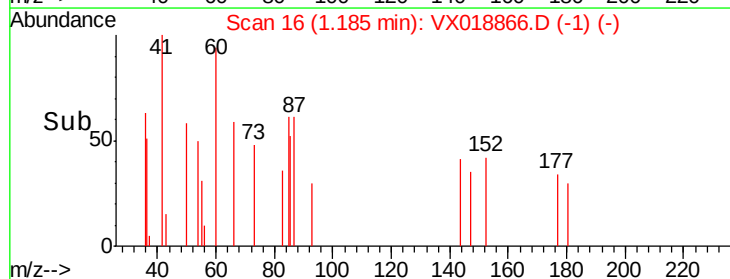
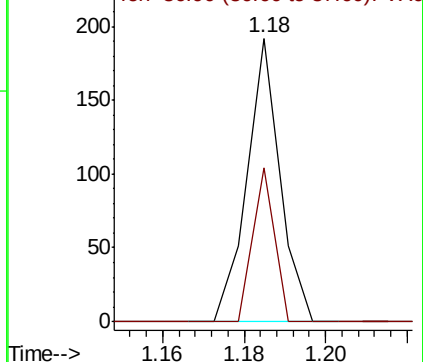
85 100

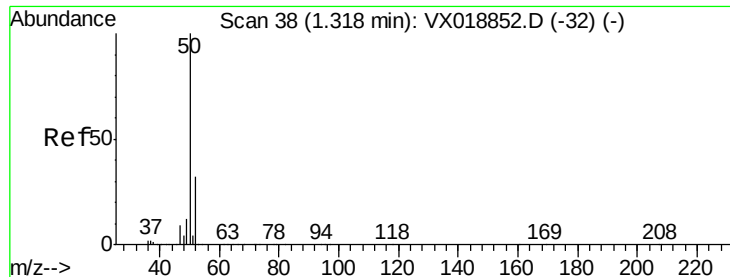
87 54.2 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.206 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.01 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

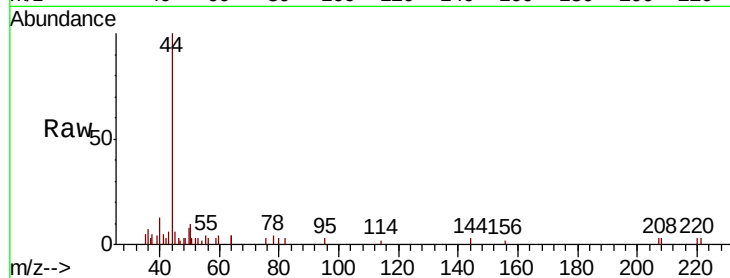
ClientSampleId :

Tot Ion: 50 Resp: 413

Ion Ratio Lower Upper

50 100

52 18.6 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

400

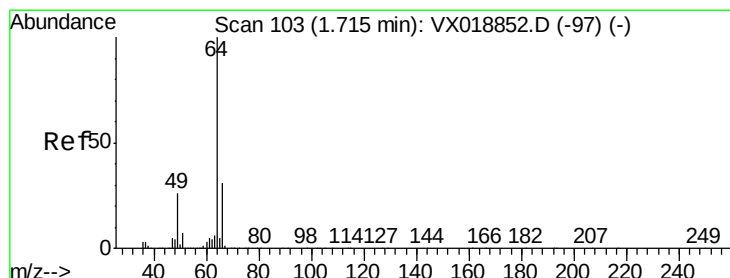
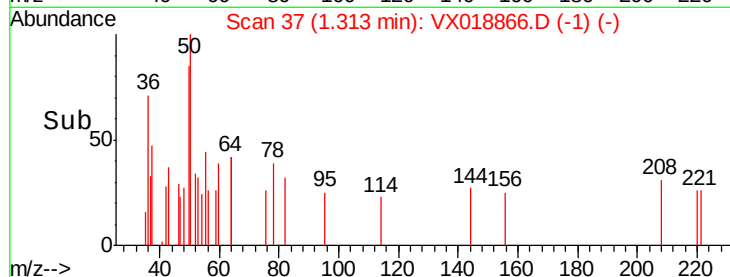
300

200

100

0

Time-->



#6

Chloroethane

Concen: 0.205 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX018866.D

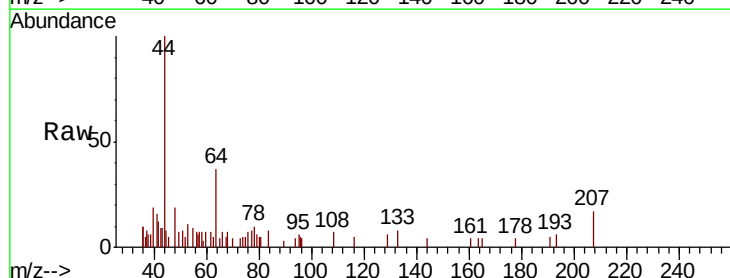
Acq: 09 Oct 2020 19:39

Tgt Ion: 64 Resp: 307

Ion Ratio Lower Upper

64 100

66 0.0 24.7 37.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

600

500

400

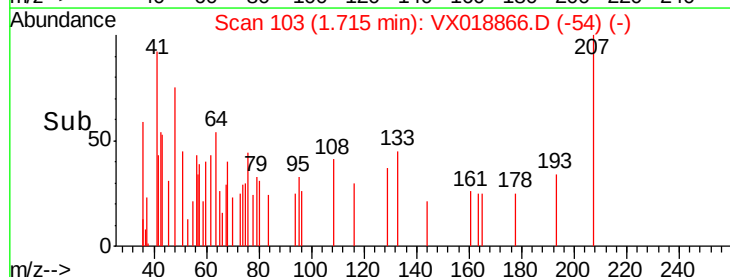
300

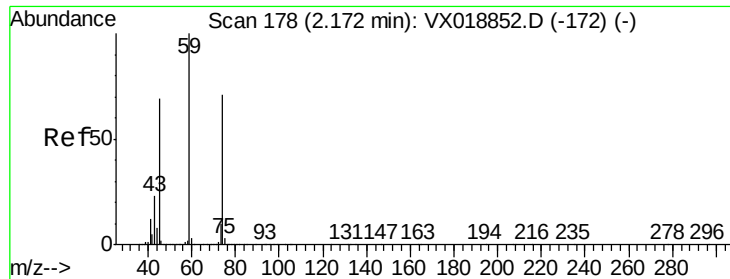
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.821 ug/l

RT: 2.18 min Scan# 180

Delta R.T. 0.01 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

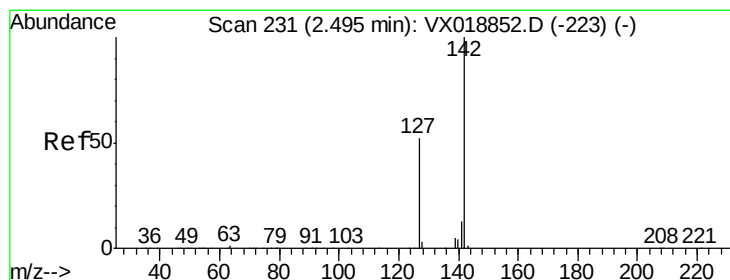
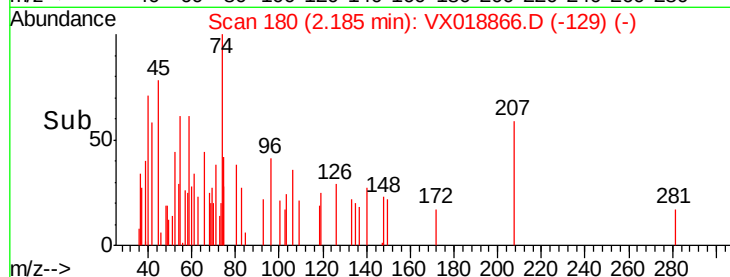
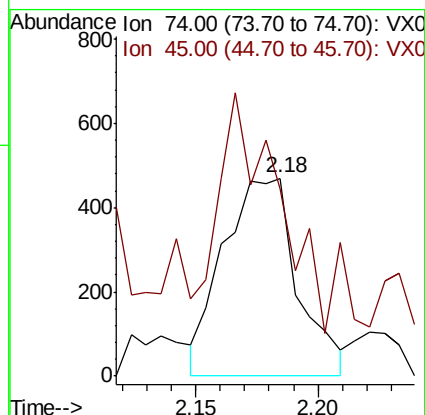
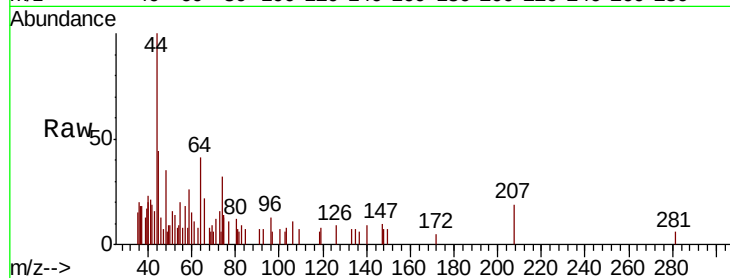
ClientSampled :

Tot Ion: 74 Resp: 992

Ion Ratio Lower Upper

74 100

45 106.3 47.0 141.2



#10

Methyl Iodide

Concen: 4.012 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

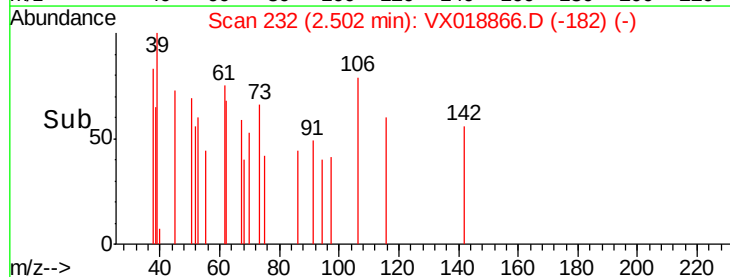
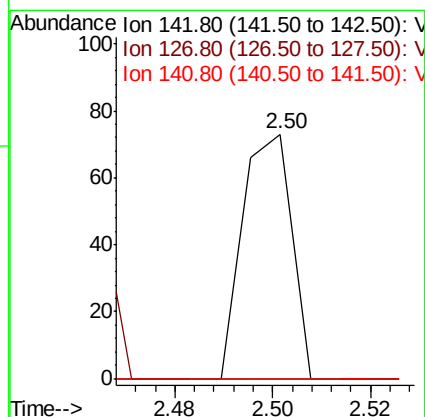
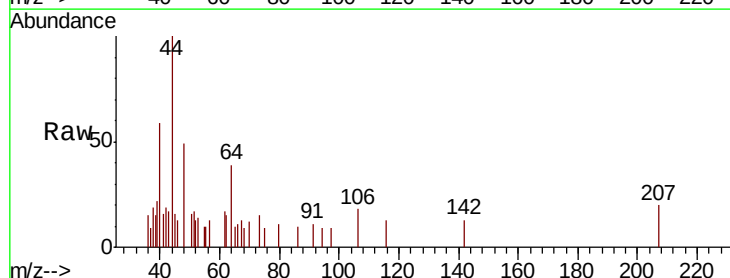
Tgt Ion:142 Resp: 51

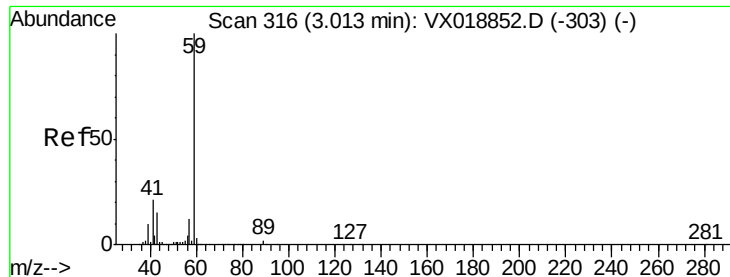
Ion Ratio Lower Upper

142 100

127 0.0 42.0 63.0#

141 0.0 11.8 17.6#

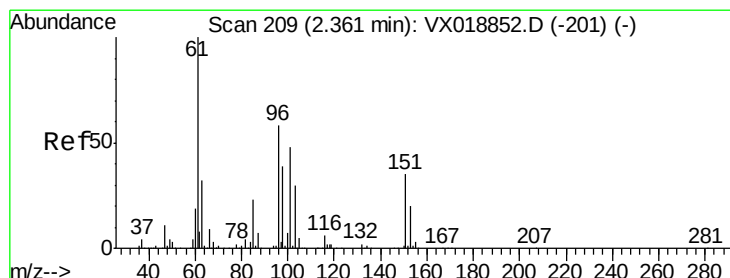
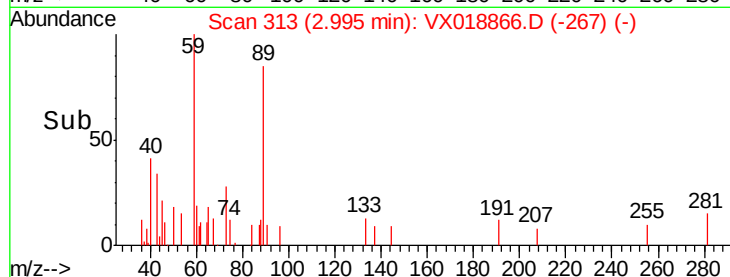
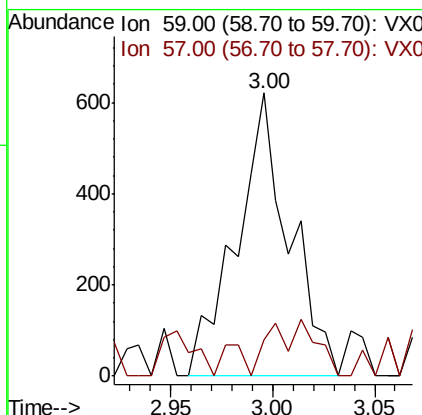
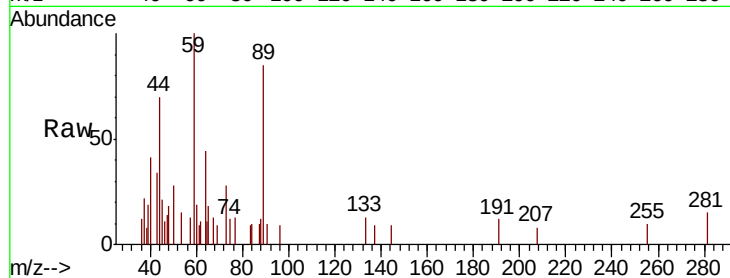




#11
Tert butyl alcohol
Concen: 2.257 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

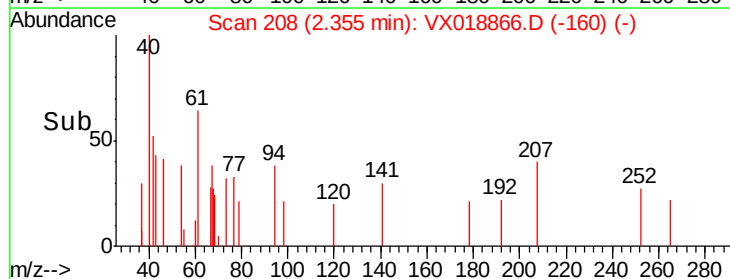
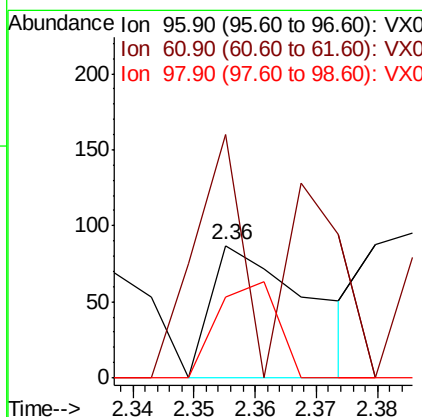
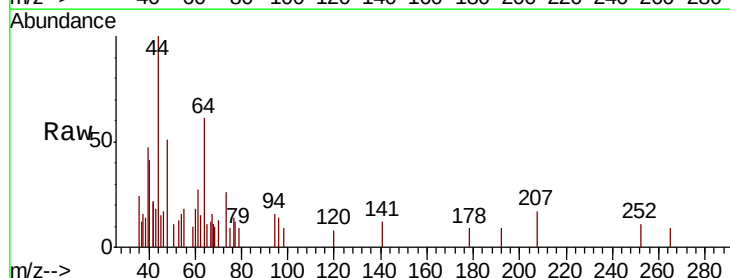
Instrument :
MSVOA_X
ClientSampleId :

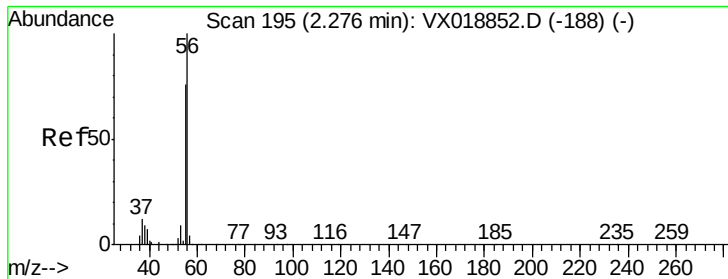
Tot Ion: 59 Resp: 1119
Ion Ratio Lower Upper
59 100
57 8.1 9.0 13.6#



#12
1,1-Dichloroethene
Concen: 0.753 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

Tgt Ion: 96 Resp: 96
Ion Ratio Lower Upper
96 100
61 97.7 137.0 205.6#
98 60.9 53.9 80.9





#13

Acrolein

Concen: 0.703 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.02 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

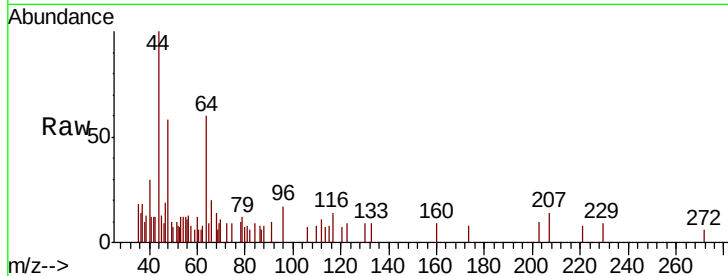
ClientSampleId :

Tot Ion: 56 Resp: 290

Ion Ratio Lower Upper

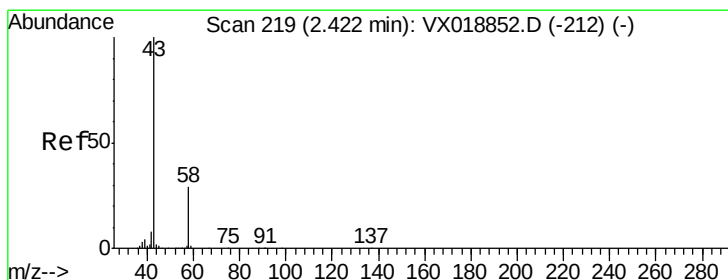
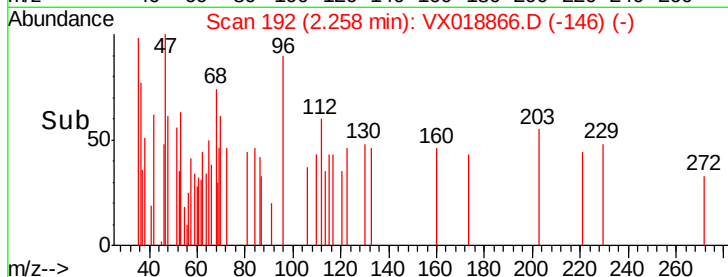
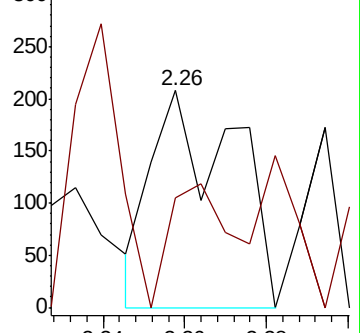
56 100

55 44.8 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX018866.D

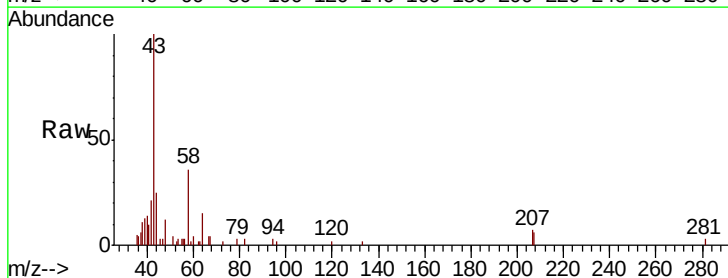
Acq: 09 Oct 2020 19:39

Tgt Ion: 43 Resp: 5356

Ion Ratio Lower Upper

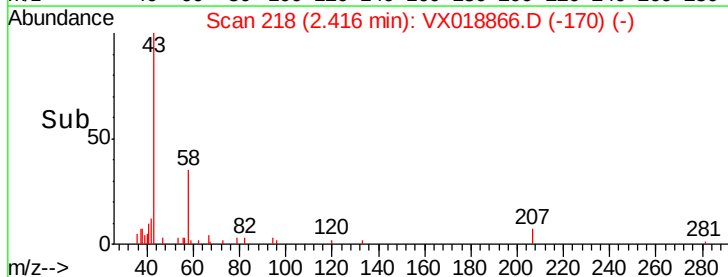
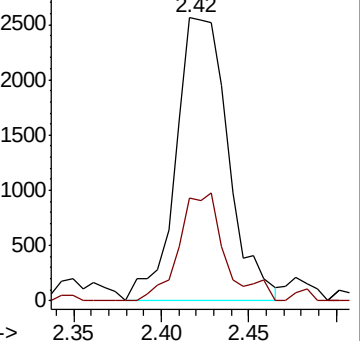
43 100

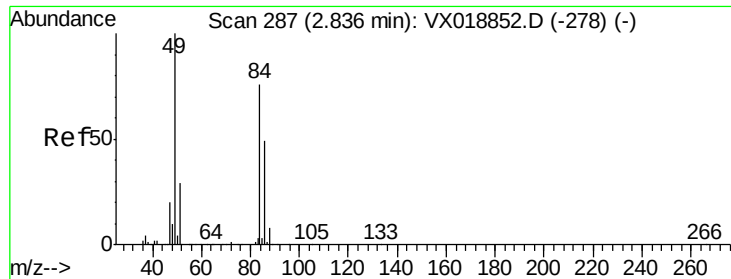
58 36.4 23.0 34.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

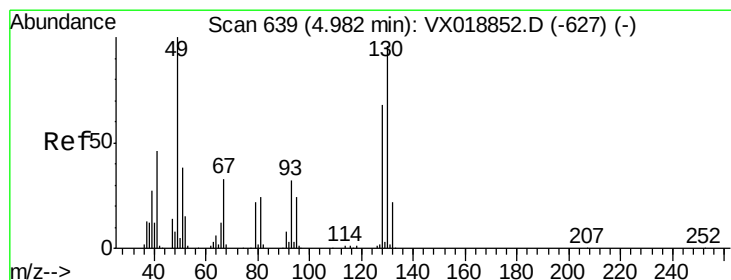
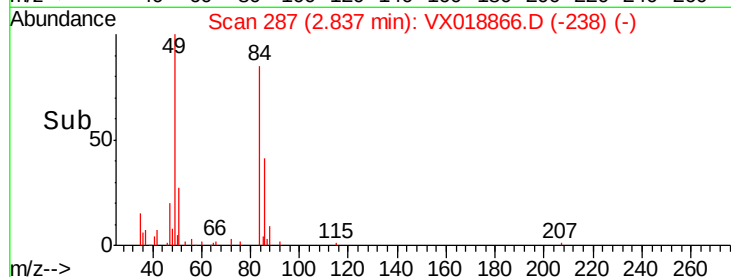
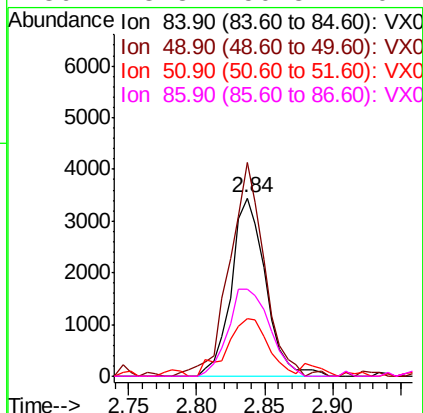
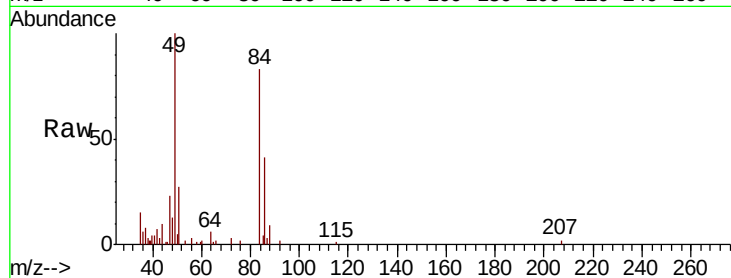




#20
Methylene Chloride
Concen: 3.177 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

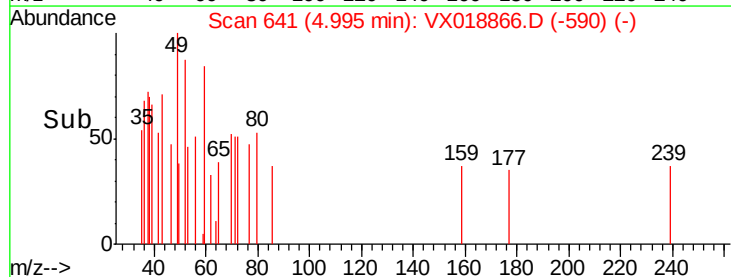
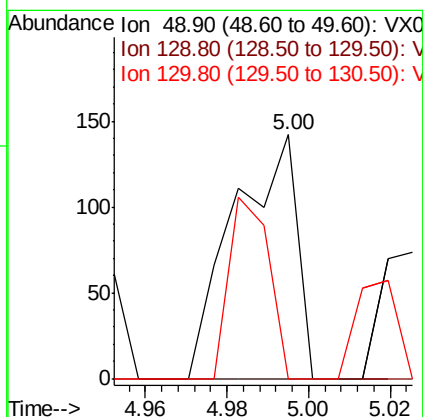
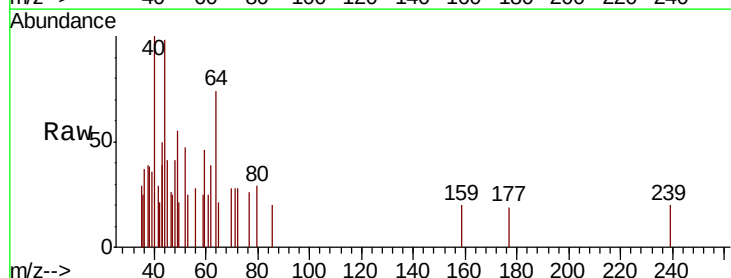
Instrument :
MSVOA_X
ClientSampleId :

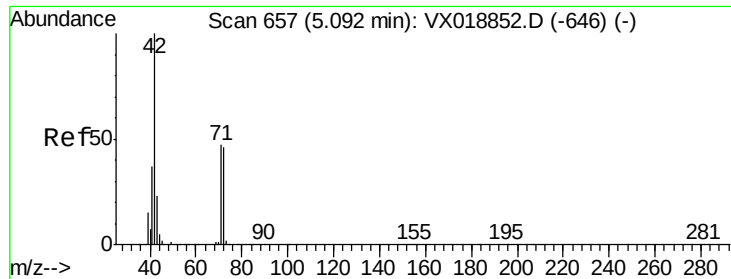
Tot Ion: 84 Resp: 6064
Ion Ratio Lower Upper
84 100
49 119.9 104.8 157.2
51 32.4 30.6 46.0
86 48.8 50.8 76.2#



#28
Bromochloromethane
Concen: 1.600 ug/l
RT: 5.00 min Scan# 641
Delta R.T. 0.01 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

Tgt Ion: 49 Resp: 153
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 46.4 71.2 106.8#





#29

Tetrahydrofuran

Concen: 0.710 ug/l

RT: 5.10 min Scan# 659

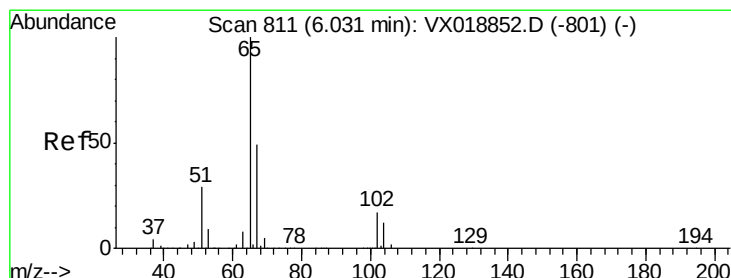
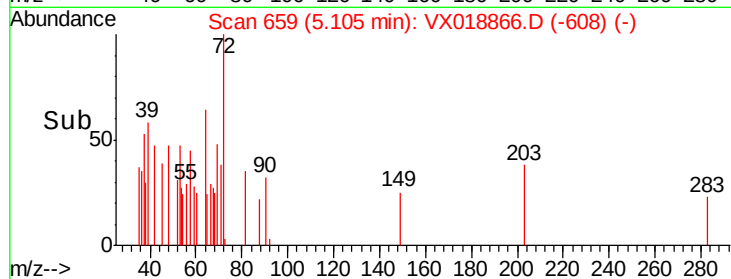
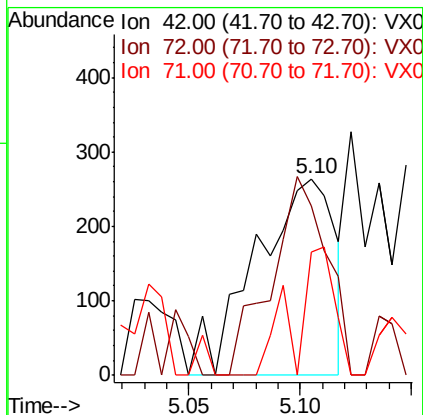
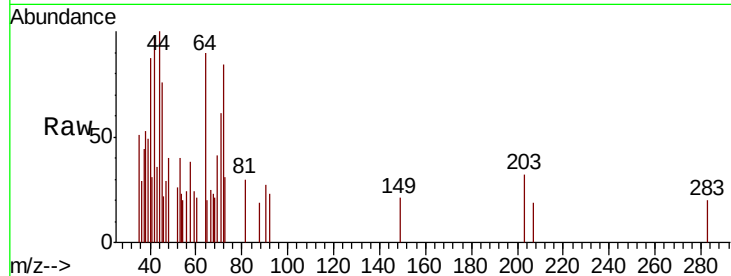
Delta R.T. 0.01 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	42	Resp:	650
Ion	Ratio	Lower	Upper
42	100		
72	71.4	36.4	54.6#
71	33.2	35.2	52.8#



#33

1,2-Dichloroethane-d4

Concen: 52.002 ug/l

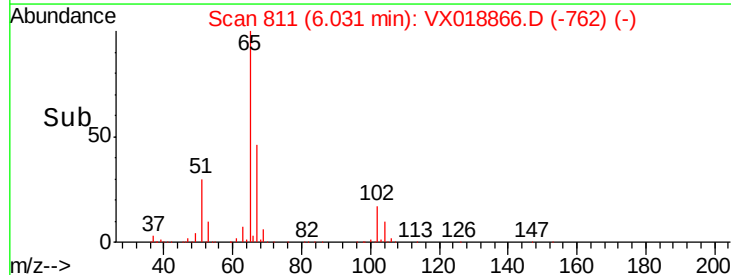
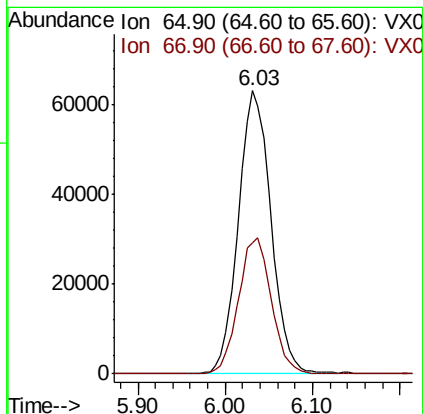
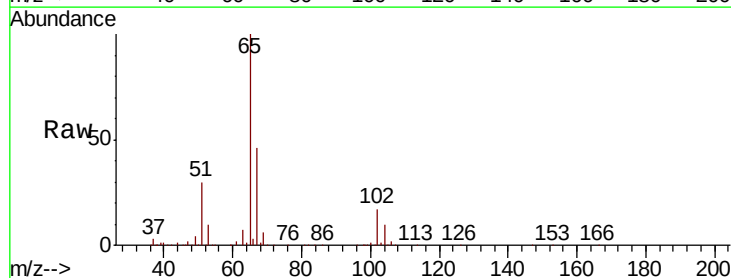
RT: 6.03 min Scan# 811

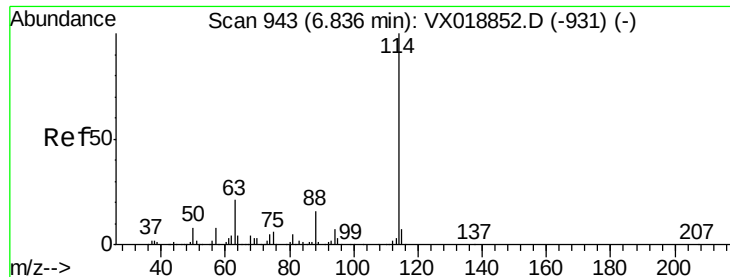
Delta R.T. 0.00 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Tgt Ion:	65	Resp:	163733
Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	97.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.00 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

ClientSampleId :

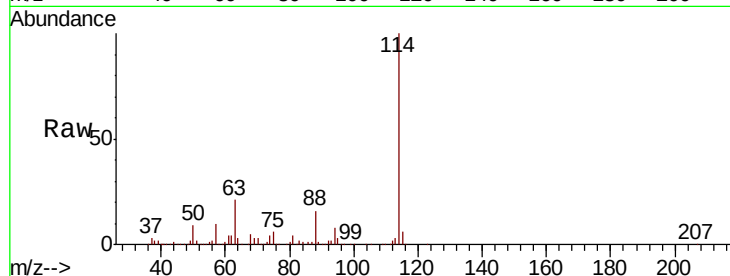
Tot Ion:114 Resp: 348589

Ion Ratio Lower Upper

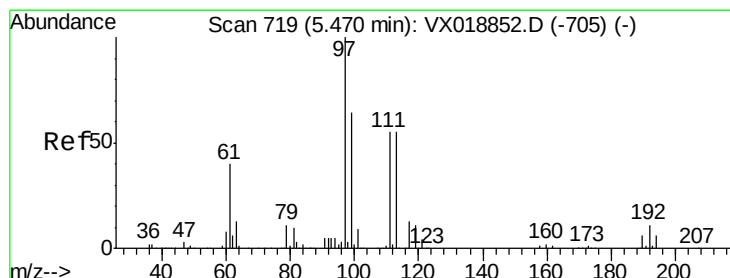
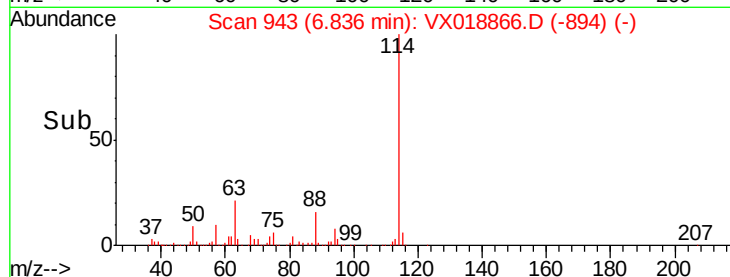
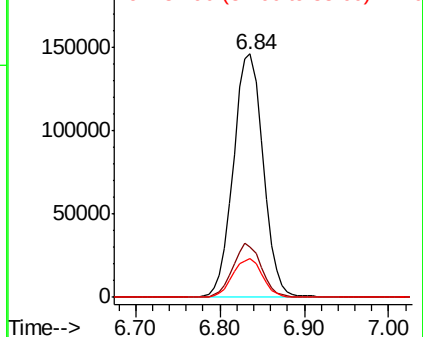
114 100

63 20.8 0.0 42.4

88 15.8 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.636 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

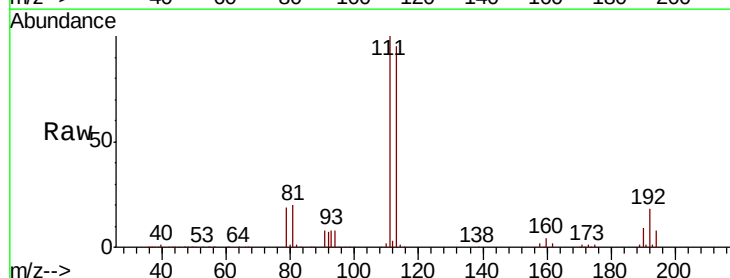
Tgt Ion:113 Resp: 123310

Ion Ratio Lower Upper

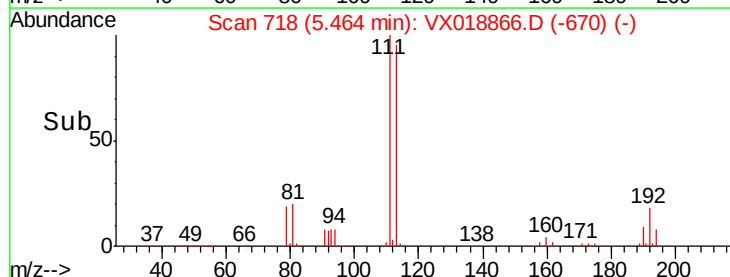
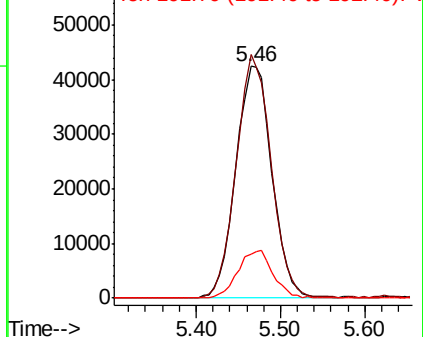
113 100

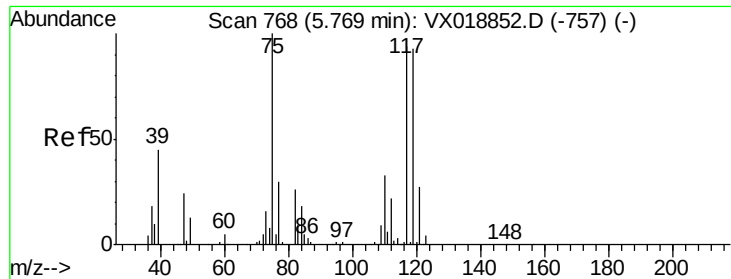
111 101.5 80.1 120.1

192 19.9 16.0 24.0



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

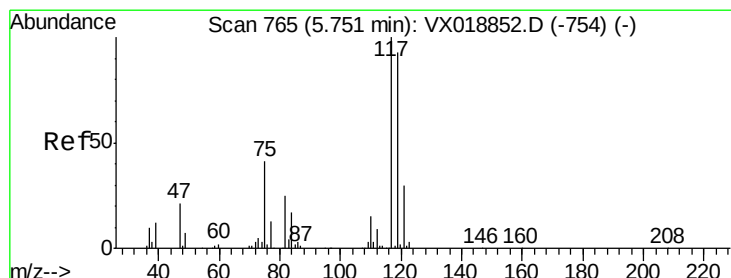
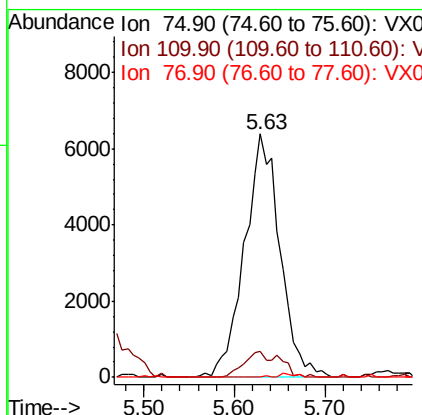
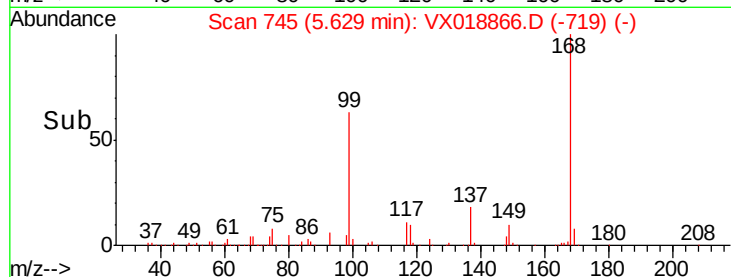
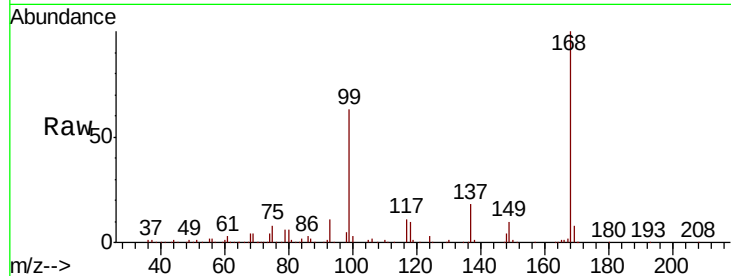




#36
 1,1-Dichloropropene
 Concen: 4.711 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018866.D
 Acq: 09 Oct 2020 19:39

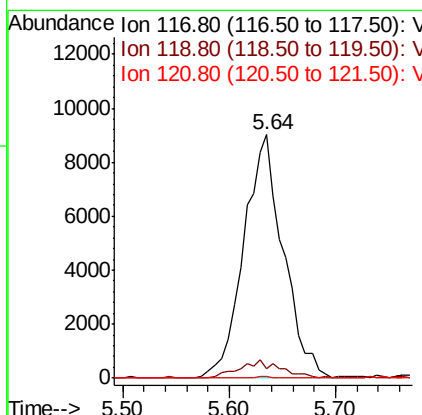
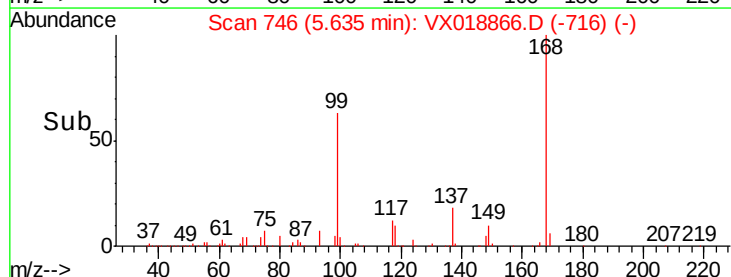
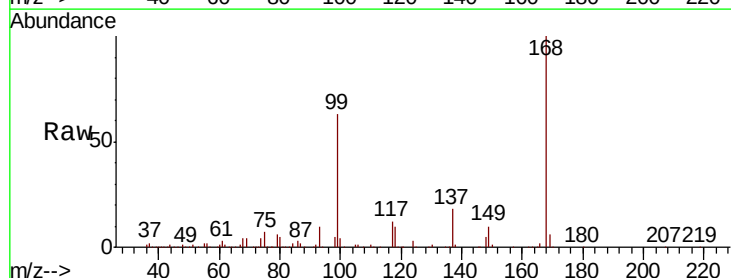
Instrument :
 MSVOA_X
 ClientSampled :

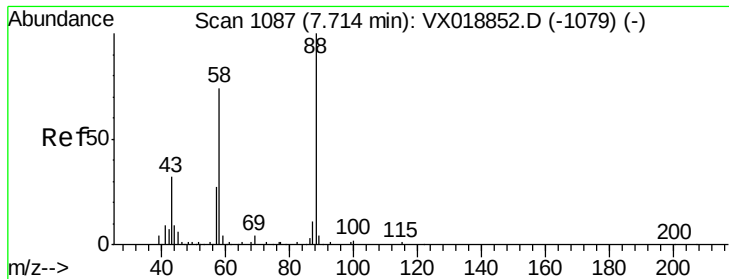
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.6	17.8	53.5#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.163 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX018866.D
 Acq: 09 Oct 2020 19:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	73.9	110.9#
121	0.9	23.6	35.4#

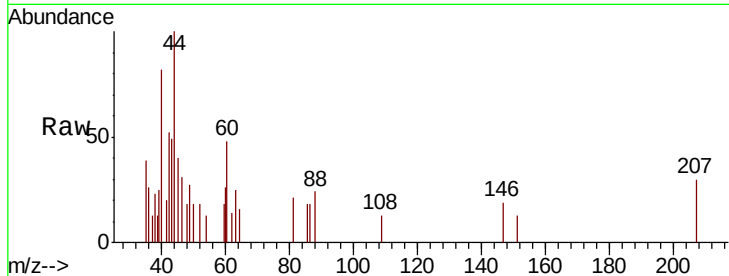




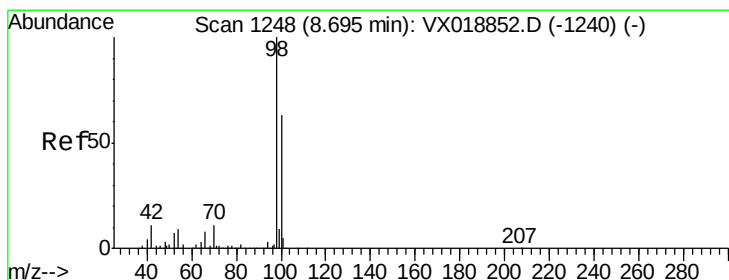
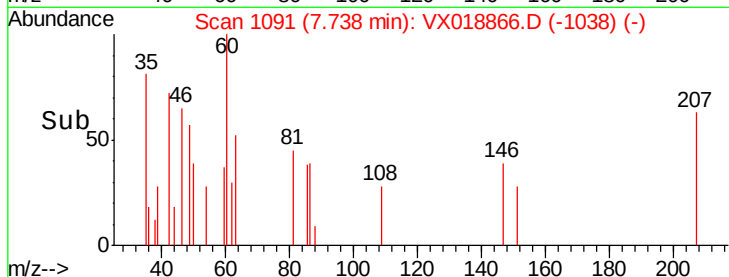
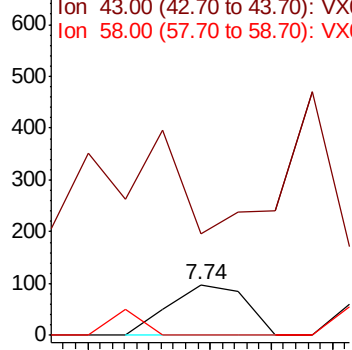
#49
1,4-Dioxane
Concen: 2.055 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	88	Resp	86
Ion Ratio	Lower	Upper	
88	100		
43	316.3	31.0	46.6#
58	22.1	59.3	88.9#

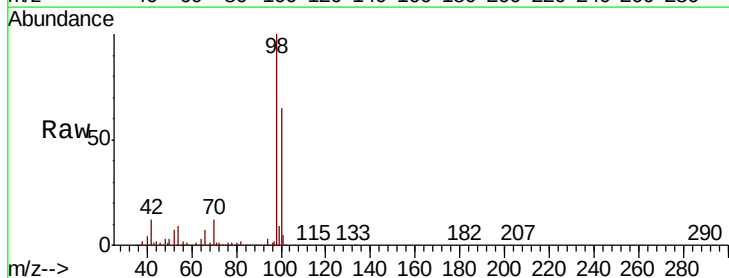


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

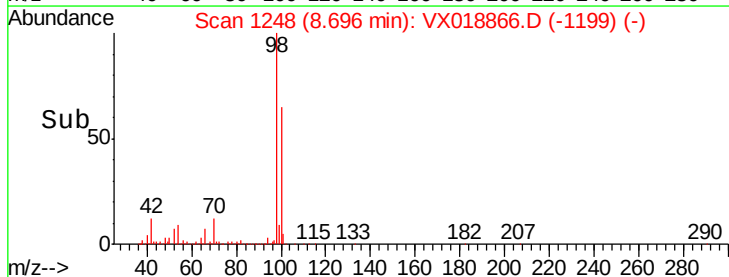
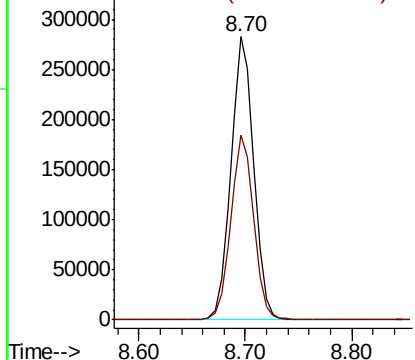


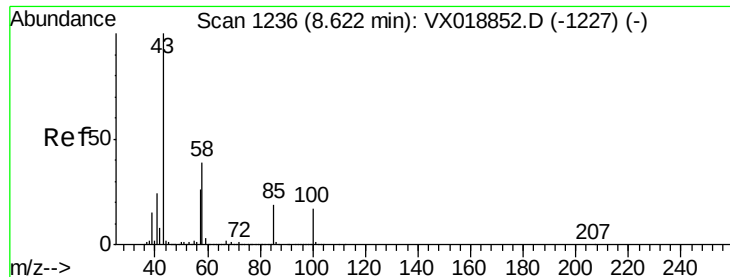
#50
Toluene-d8
Concen: 49.450 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

Tgt Ion	98	Resp	426128
Ion Ratio	Lower	Upper	
98	100		
100	65.1	53.1	79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.329 ug/l

RT: 8.63 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

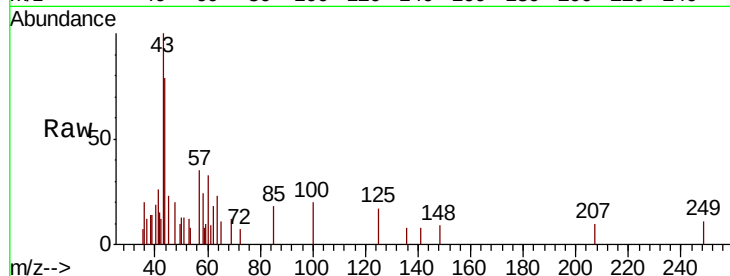
ClientSampled :

Tot Ion: 43 Resp: 1131

Ion Ratio Lower Upper

43 100

58 51.8 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

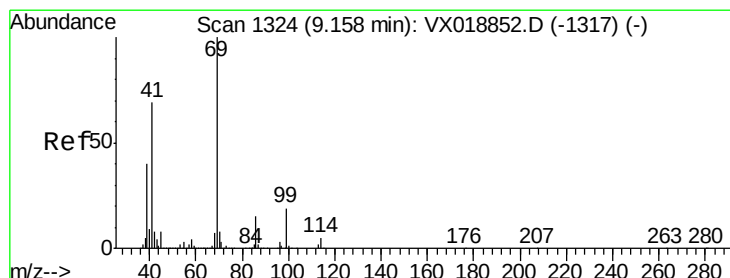
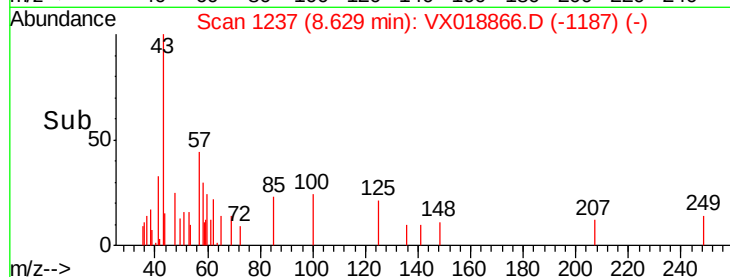
1000

500

0

8.55 8.60 8.65

Time-->



#56

Ethyl methacrylate

Concen: 2.941 ug/l

RT: 9.16 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

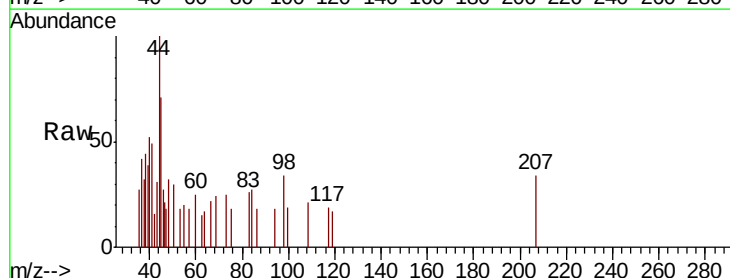
Tgt Ion: 69 Resp: 29

Ion Ratio Lower Upper

69 100

41 1027.6 54.6 81.8#

39 237.9 31.5 47.3#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

250

200

150

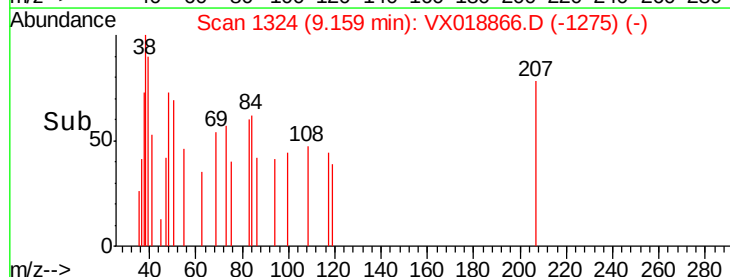
100

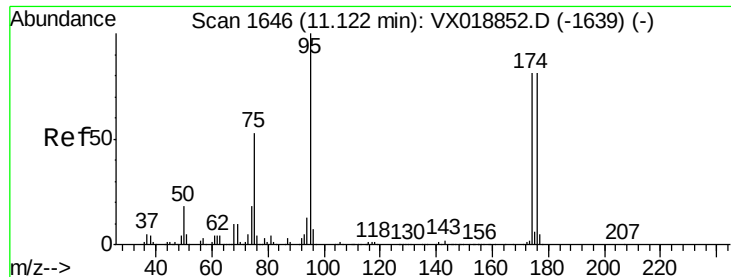
50

0

9.14 9.15 9.16 9.17

Time-->





#62

4-Bromofluorobenzene

Concen: 48.060 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

ClientSampleId :

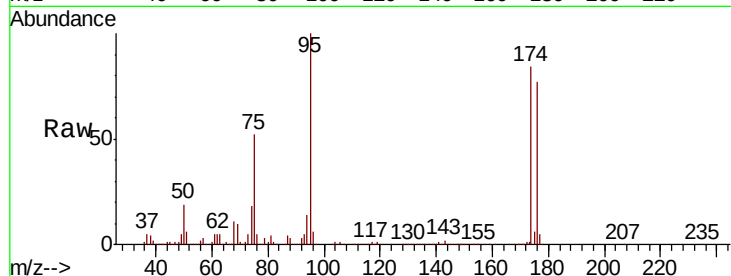
Tot Ion: 95 Resp: 165062

Ion Ratio Lower Upper

95 100

174 82.7 0.0 160.0

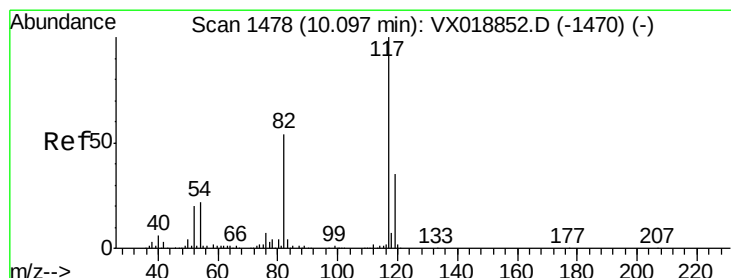
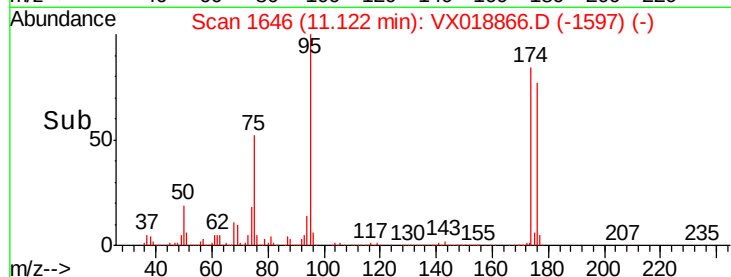
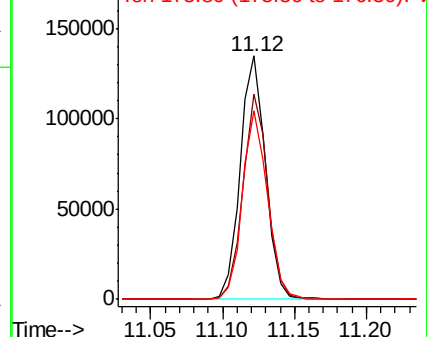
176 77.0 0.0 161.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

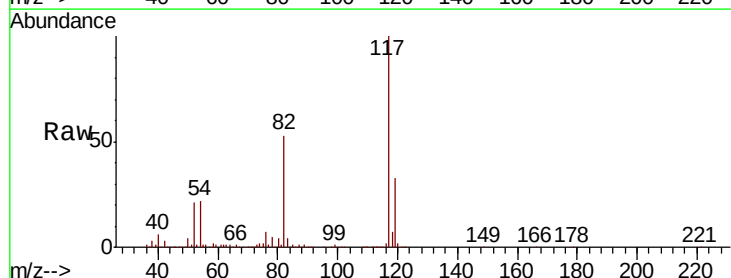
Tgt Ion: 117 Resp: 336115

Ion Ratio Lower Upper

117 100

82 53.3 43.4 65.2

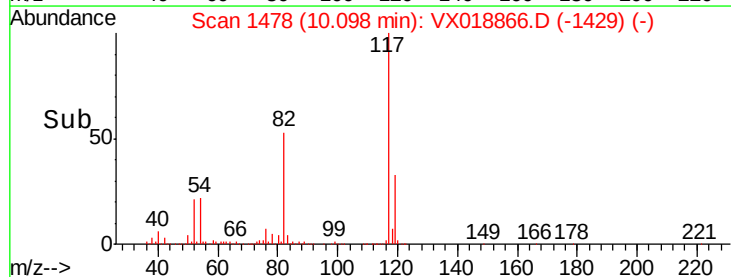
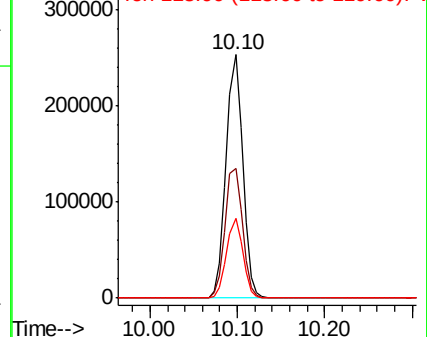
119 32.5 28.3 42.5

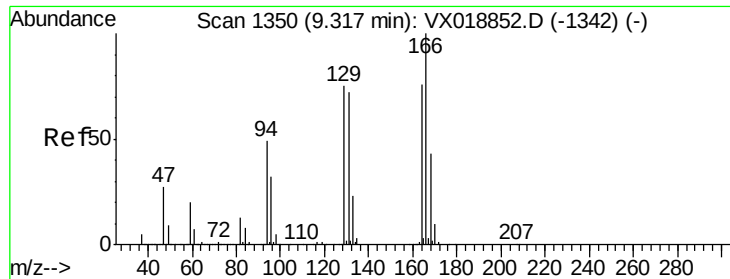


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

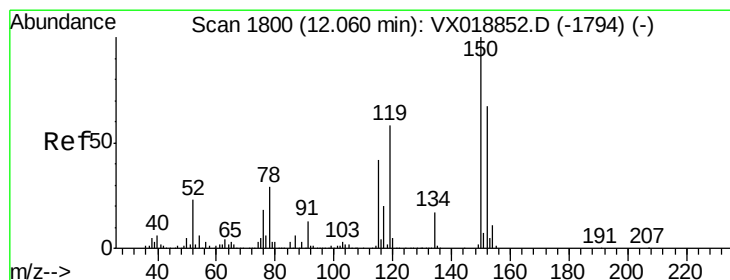
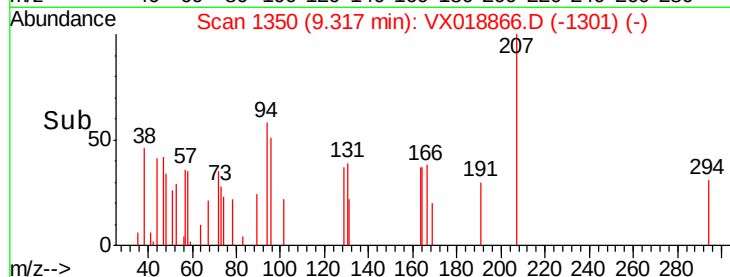
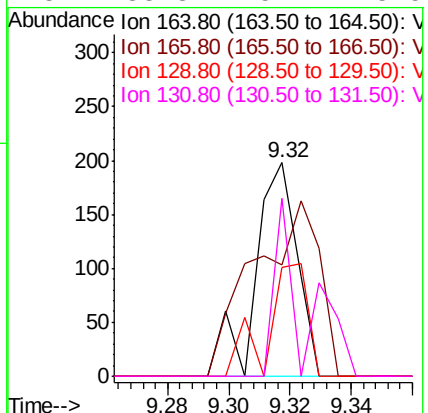
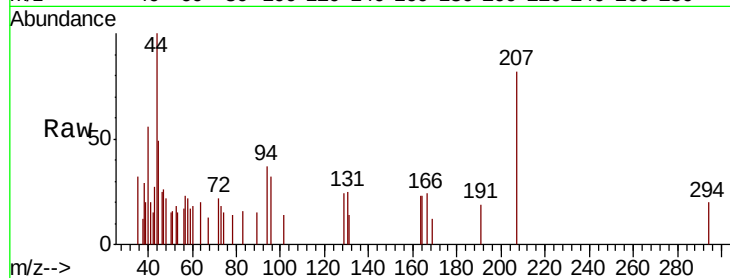




#64
Tetrachloroethene
Concen: Below Cal
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

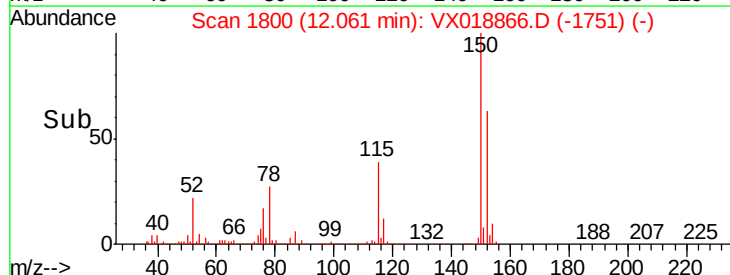
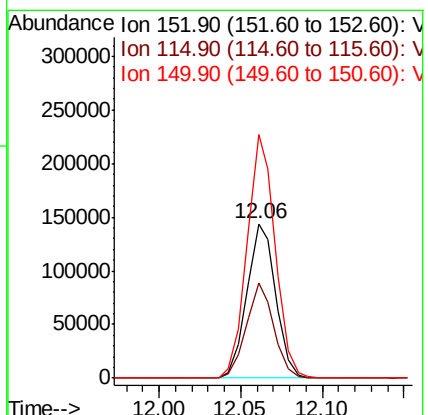
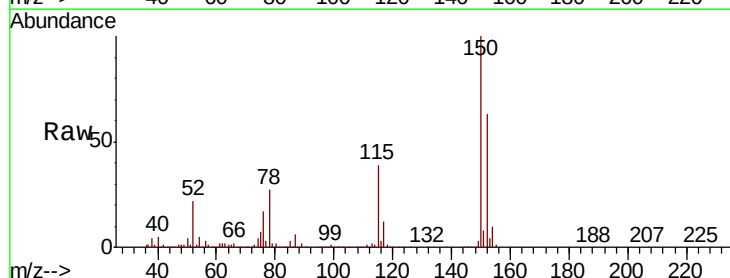
Instrument :
MSVOA_X
ClientSampleId :

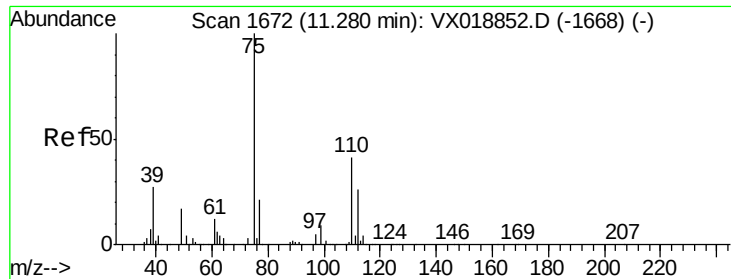
Tot Ion	Ratio	Lower	Upper
164	100		
166	52.0	105.4	158.0#
129	51.0	79.0	118.6#
131	83.3	75.7	113.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.9	41.8	125.4
150	154.4	0.0	347.6





#76

1,2,3-Trichloropropane

Concen: 22.731 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

Instrument :

MSVOA_X

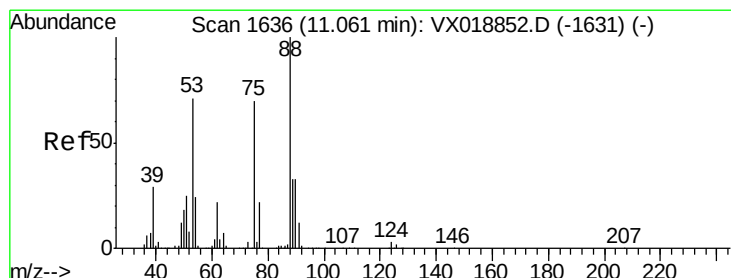
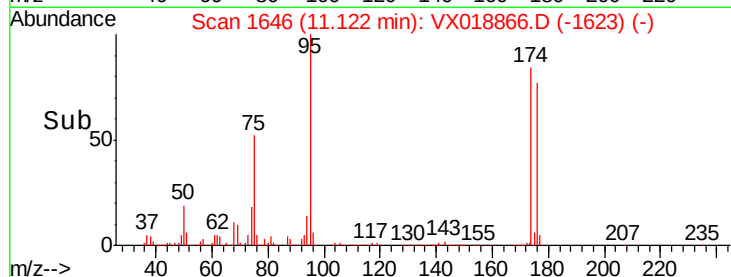
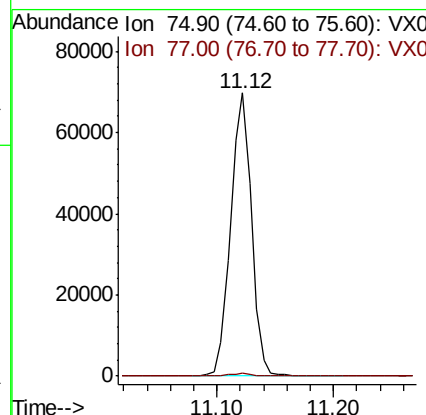
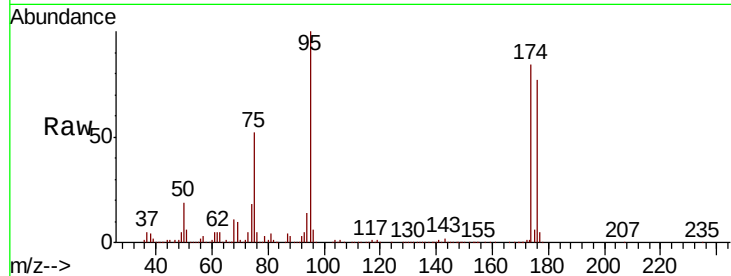
ClientSampleId :

Tot Ion: 75 Resp: 86565

Ion Ratio Lower Upper

75 100

77 1.2 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.420 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018866.D

Acq: 09 Oct 2020 19:39

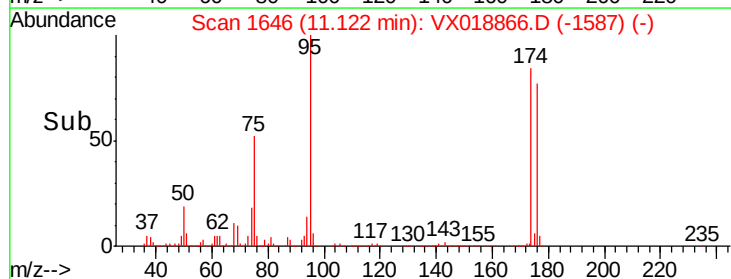
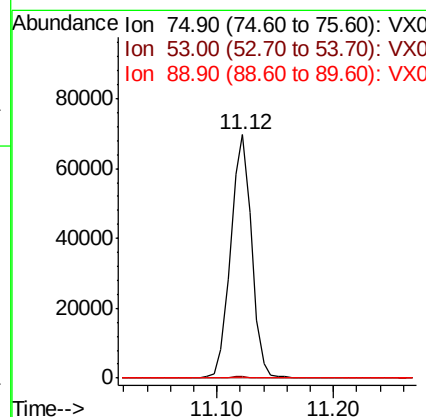
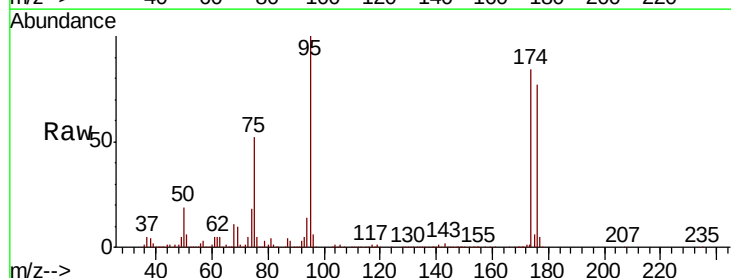
Tgt Ion: 75 Resp: 86565

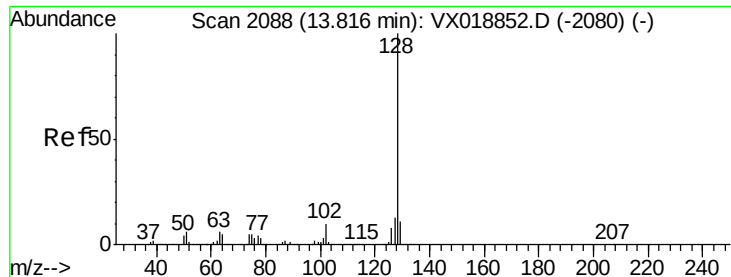
Ion Ratio Lower Upper

75 100

53 0.7 85.0 127.4#

89 0.2 39.0 58.4#

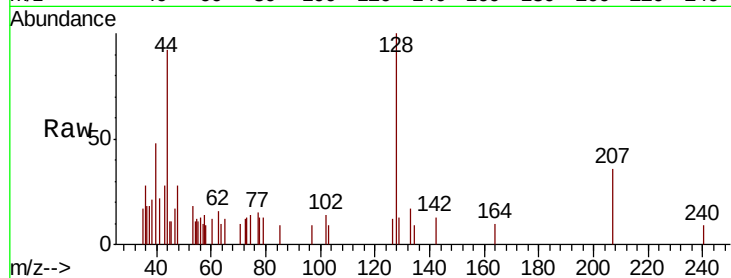




#95
Naphthalene
Concen: 3.132 ug/l
RT: 13.82 min Scan# 2089
Delta R.T. 0.01 min
Lab File: VX018866.D
Acq: 09 Oct 2020 19:39

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 695
Ion Ratio Lower Upper
128 100
127 3.2 10.1 15.1#
129 11.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

