

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017557.D
 Acq On : 24 Jul 2020 20:42
 Operator : JC/SP
 Sample : L3382-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CTR-011

Quant Time: Jul 25 01:55:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	501416	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	848047	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	901556	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	445877	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	341397	53.00	ug/l	0.00
Spiked Amount			Recovery	=	106.00%	
35) Dibromofluoromethane	5.47	113	303432	53.50	ug/l	0.00
Spiked Amount			Recovery	=	107.00%	
50) Toluene-d8	8.70	98	1164776	56.93	ug/l	0.00
Spiked Amount			Recovery	=	113.86%	
62) 4-Bromofluorobenzene	11.12	95	471261	57.55	ug/l	0.00
Spiked Amount			Recovery	=	115.10%	

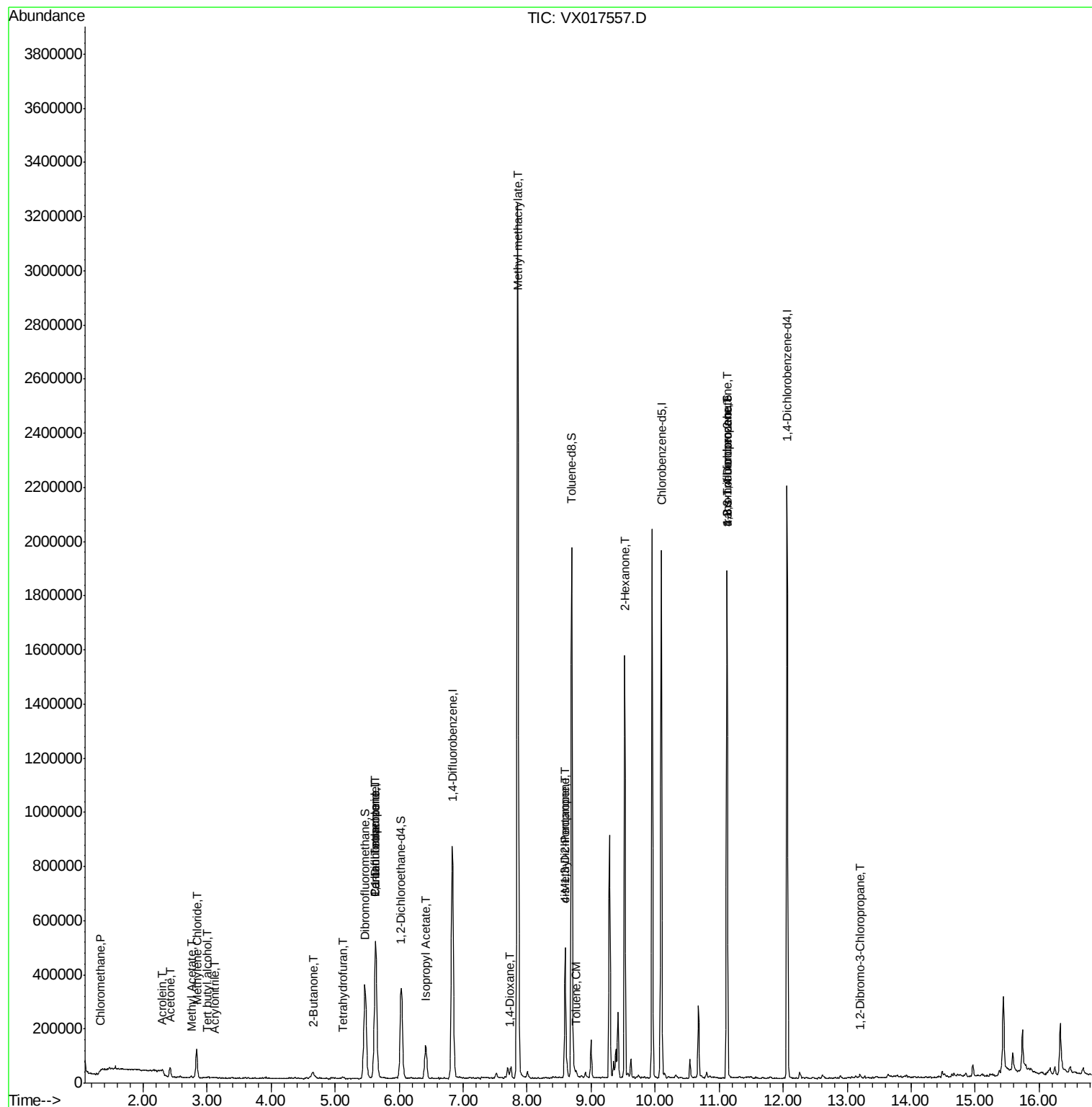
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	654	Below Cal	#	69
3) Chloromethane	1.32	50	494	0.446	ug/l	89
5) Bromomethane	1.62	94	158	Below Cal	#	3
6) Chloroethane	1.70	64	207	Below Cal	#	85
8) Diethyl Ether	2.27	74	485	Below Cal		91
11) Tert butyl alcohol	3.00	59	2302	1.696	ug/l #	81
13) Acrolein	2.30	56	946	5.046	ug/l #	14
15) Acrylonitrile	3.12	53	677	0.231	ug/l #	61
16) Acetone	2.42	43	38831	13.698	ug/l	92
18) Methyl Acetate	2.75	43	10637	1.593	ug/l #	90
20) Methylene Chloride	2.84	84	48491	8.004	ug/l	96
25) 2-Butanone	4.65	43	9938	2.468	ug/l #	89
29) Tetrahydrofuran	5.12	42	3623	1.452	ug/l #	84
36) 1,1-Dichloropropene	5.64	75	36507	4.488	ug/l #	52
38) Carbon Tetrachloride	5.64	117	49474	5.009	ug/l #	17
43) Isopropyl Acetate	6.42	43	170615	11.620	ug/l	99
48) Methyl methacrylate	7.85	41	271803	37.344	ug/l #	45
49) 1,4-Dioxane	7.73	88	358	2.565	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	182638	20.847	ug/l #	53
52) Toluene	8.77	92	4724	0.316	ug/l	97
54) cis-1,3-Dichloropropene	8.59	75	78747	7.503	ug/l #	58
59) 2-Hexanone	9.52	43	176701	26.789	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	237949	25.943	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	237949	65.371	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.21	75	104	2.613	ug/l	62

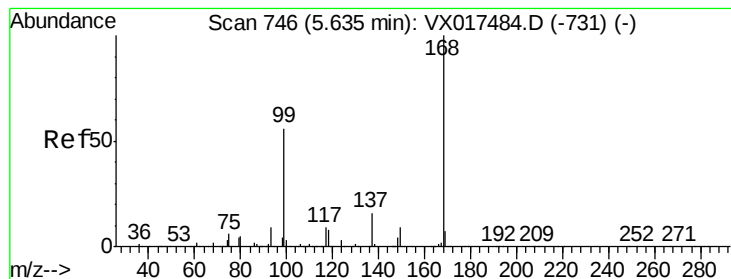
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072420\
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Quant Time: Jul 25 01:55:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

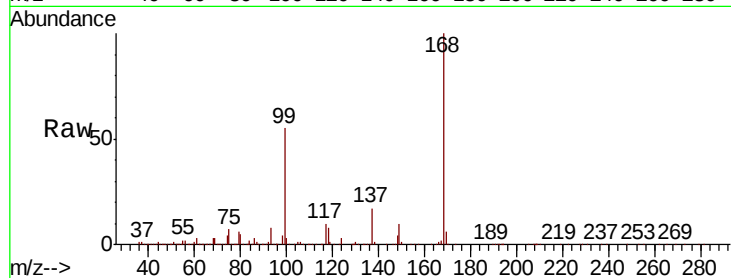
CTR-011

Tot Ion:168 Resp: 501416

Ion Ratio Lower Upper

168 100

99 55.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

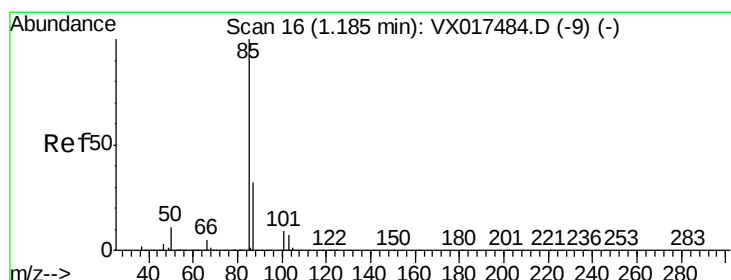
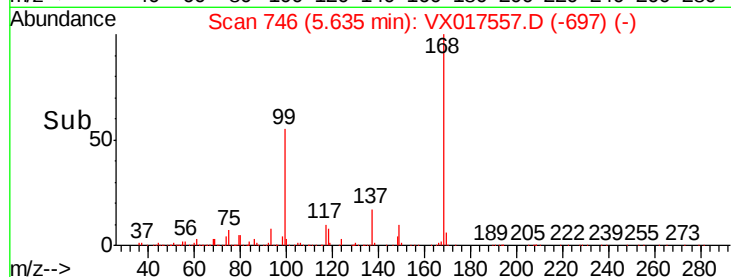
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.17 min Scan# 13

Delta R.T. -0.02 min

Lab File: VX017557.D

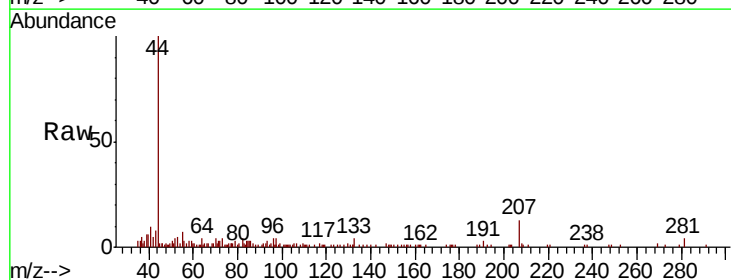
Acq: 24 Jul 2020 20:42

Tgt Ion: 85 Resp: 654

Ion Ratio Lower Upper

85 100

87 49.6 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

600

500

400

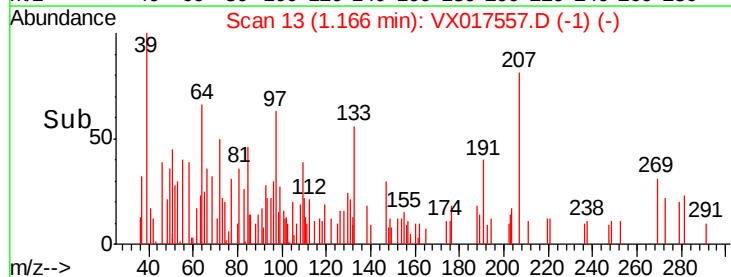
300

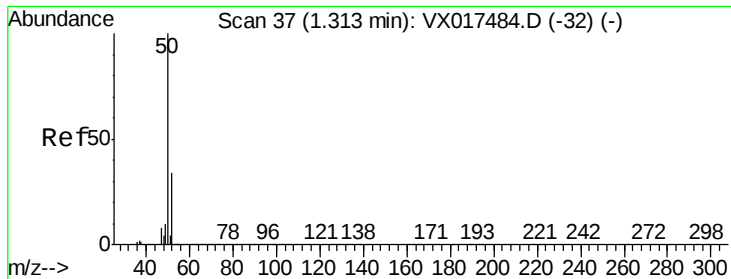
200

100

0

Time-->

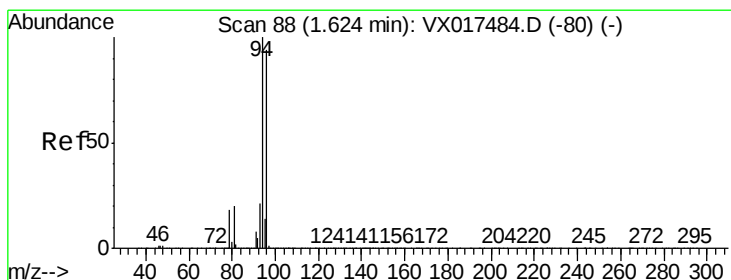
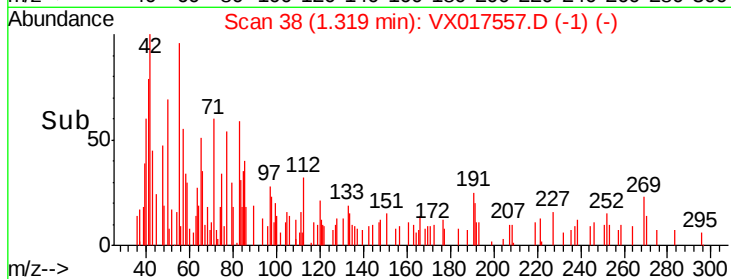
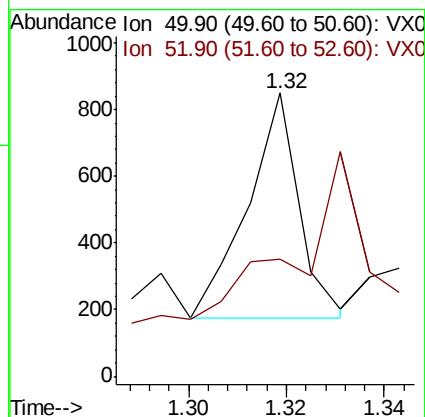
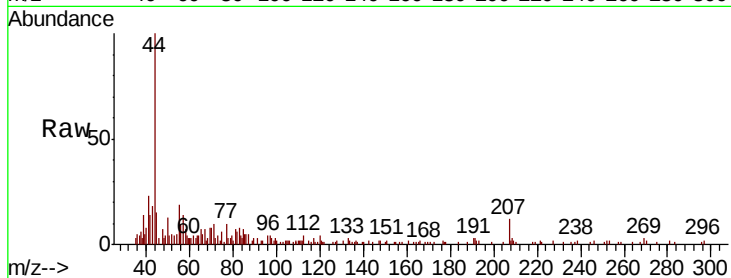




#3
Chloromethane
Concen: 0.446 ug/l
RT: 1.32 min Scan# 38
Delta R.T. 0.01 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

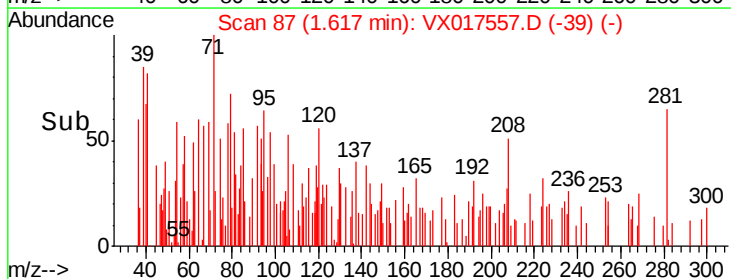
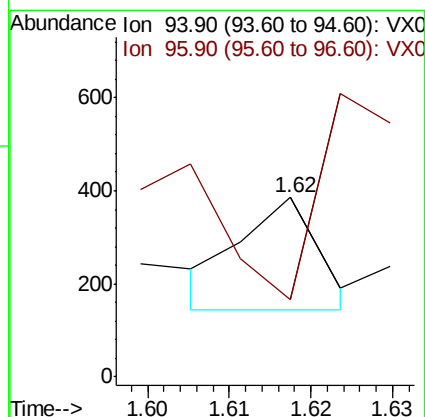
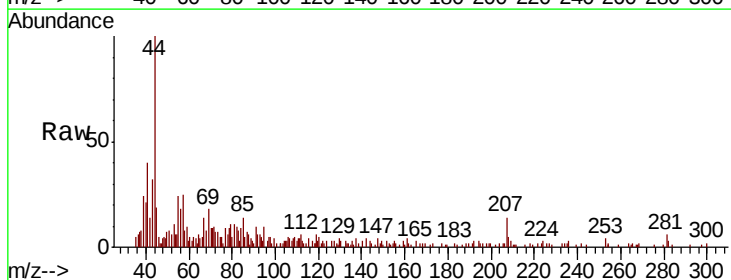
Instrument :
MSVOA_X
ClientSampled :
CTR-011

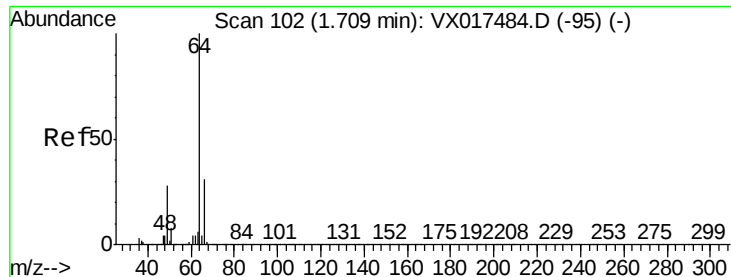
Tot Ion: 50 Resp: 494
Ion Ratio Lower Upper
50 100
52 26.4 25.9 38.9



#5
Bromomethane
Concen: Below Cal
RT: 1.62 min Scan# 87
Delta R.T. -0.01 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

Tgt Ion: 94 Resp: 158
Ion Ratio Lower Upper
94 100
96 0.0 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampled :

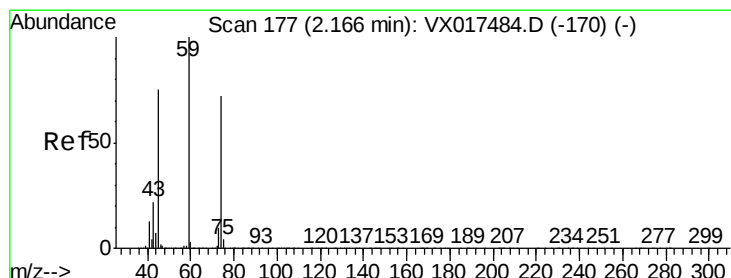
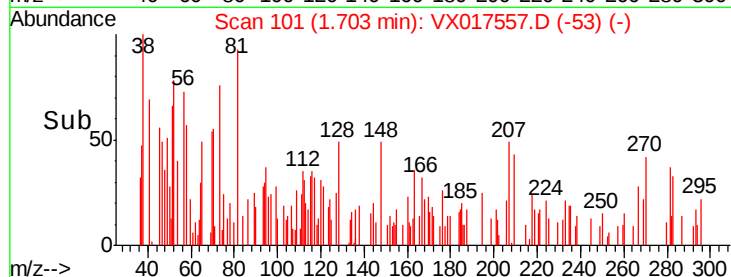
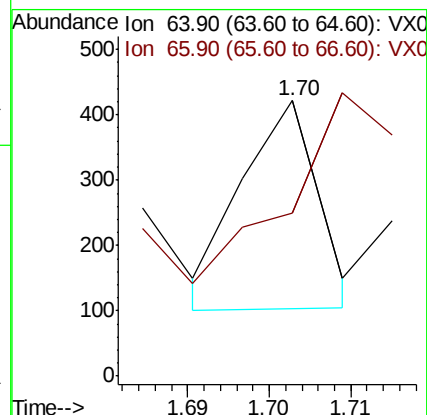
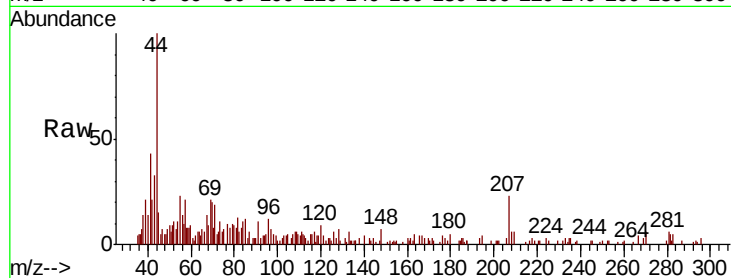
CTR-011

Tot Ion: 64 Resp: 207

Ion Ratio Lower Upper

64 100

66 39.3 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.27 min Scan# 194

Delta R.T. 0.10 min

Lab File: VX017557.D

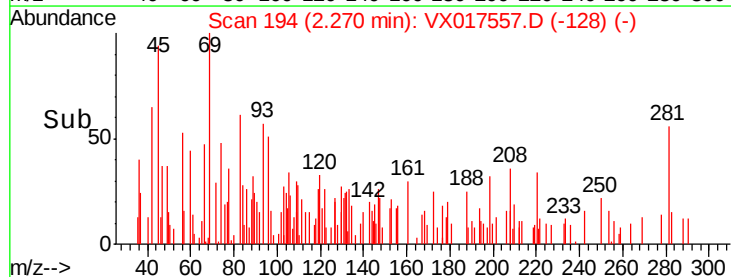
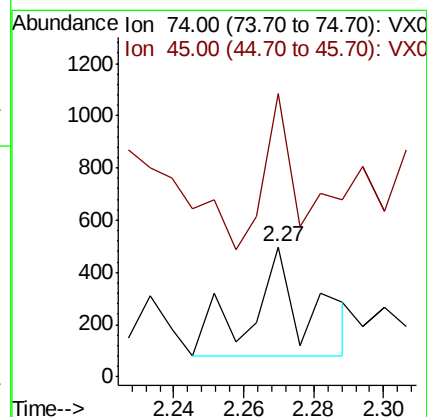
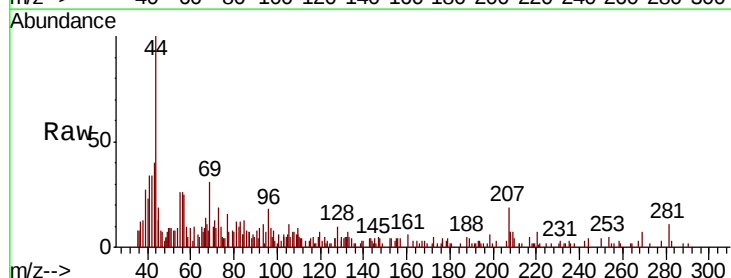
Acq: 24 Jul 2020 20:42

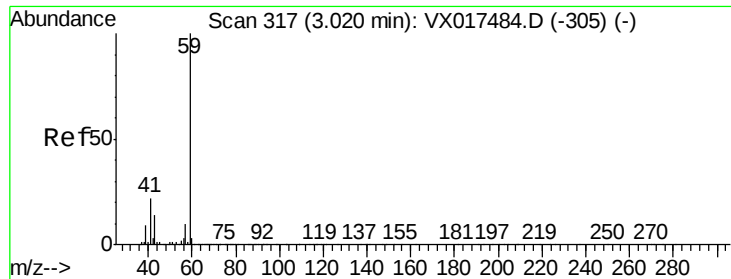
Tgt Ion: 74 Resp: 485

Ion Ratio Lower Upper

74 100

45 92.4 50.8 152.5

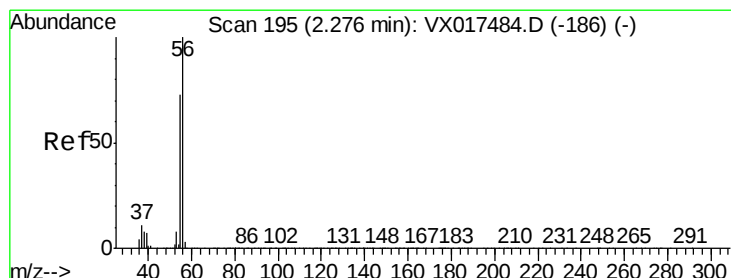
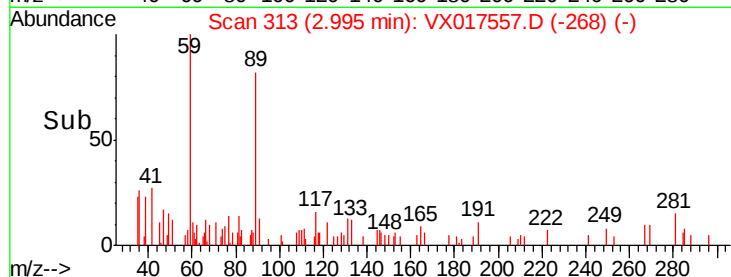
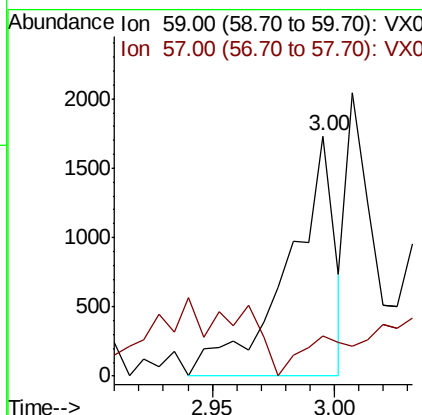
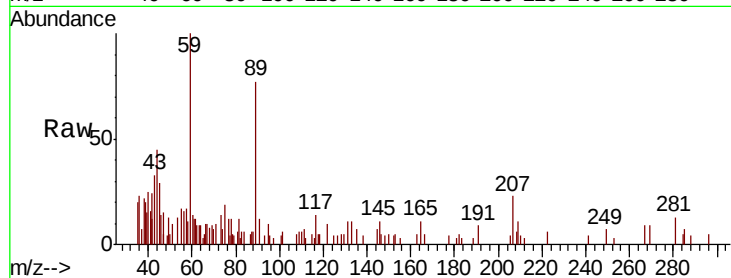




#11
Tert butyl alcohol
Concen: 1.696 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

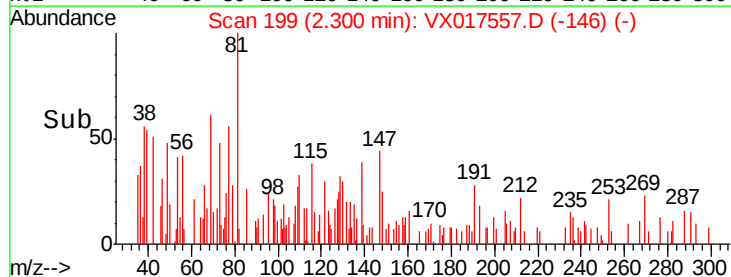
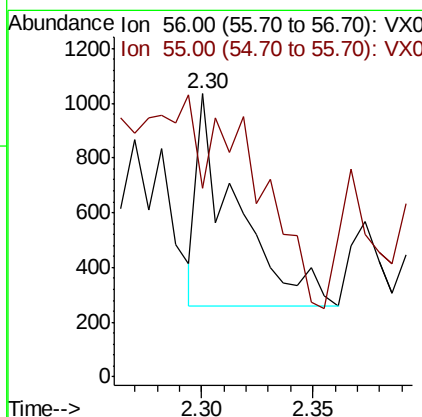
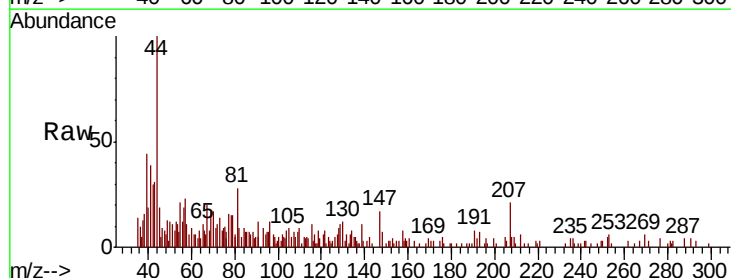
Instrument :
MSVOA_X
ClientSampleId :
CTR-011

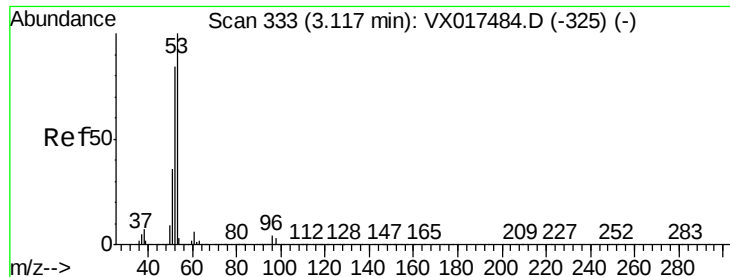
Tot Ion: 59 Resp: 2302
Ion Ratio Lower Upper
59 100
57 17.8 8.6 12.8#



#13
Acrolein
Concen: 5.046 ug/l
RT: 2.30 min Scan# 199
Delta R.T. 0.02 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

Tgt Ion: 56 Resp: 946
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.2#





#15

Acrylonitrile

Concen: 0.231 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampled :

CTR-011

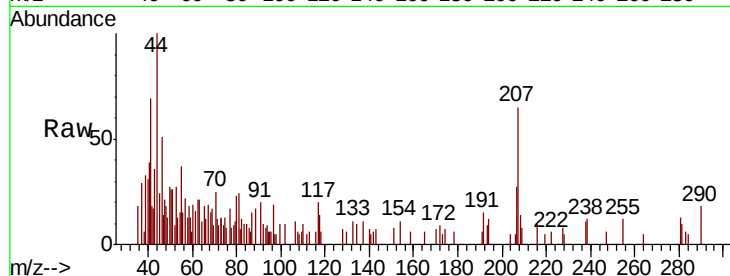
Tot Ion: 53 Resp: 677

Ion Ratio Lower Upper

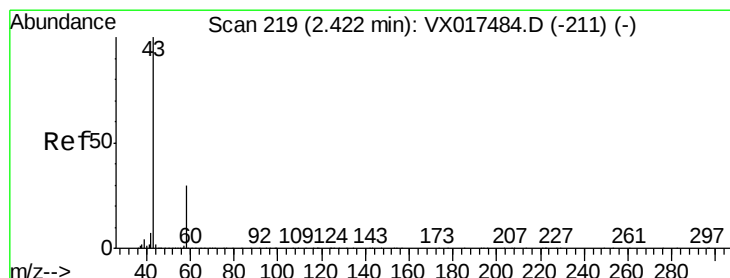
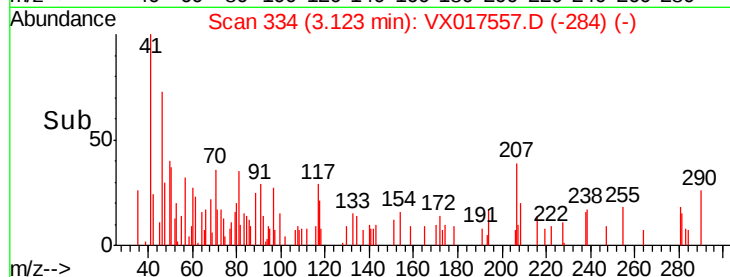
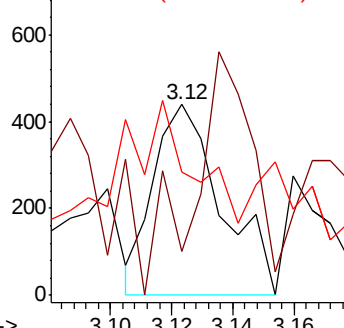
53 100

52 109.7 66.6 99.8#

51 73.0 29.4 44.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 13.698 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017557.D

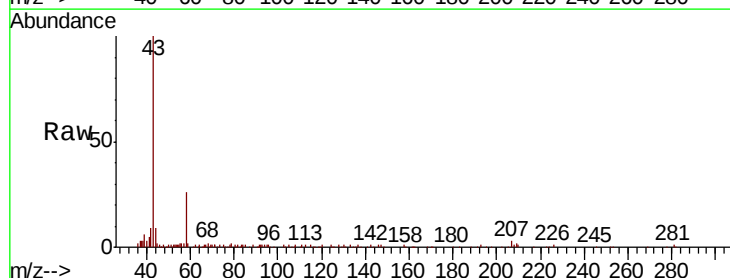
Acq: 24 Jul 2020 20:42

Tgt Ion: 43 Resp: 38831

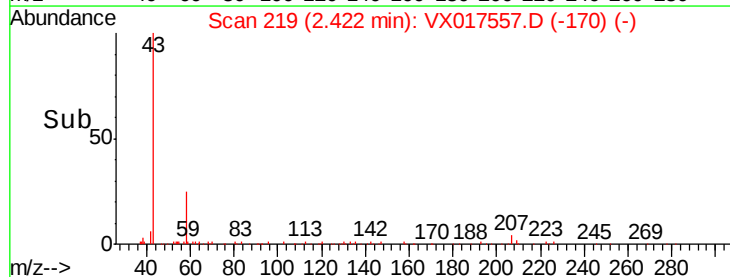
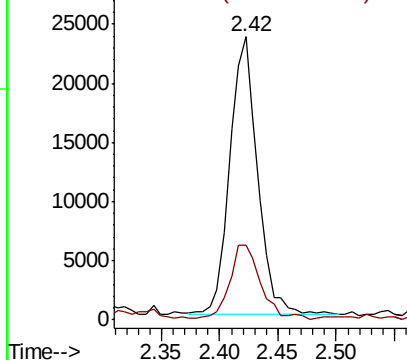
Ion Ratio Lower Upper

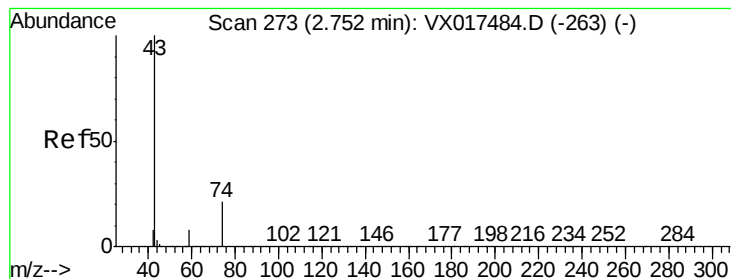
43 100

58 26.1 24.2 36.4



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





#18

Methyl Acetate

Concen: 1.593 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

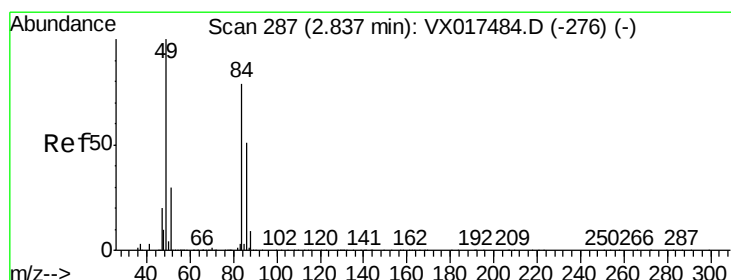
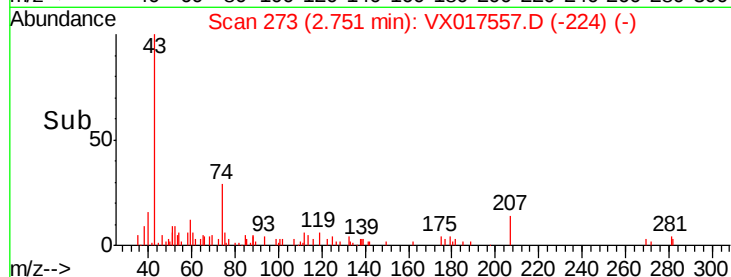
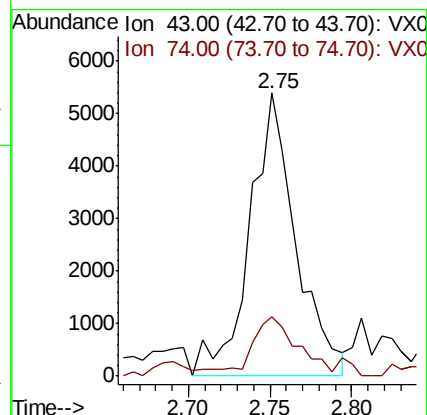
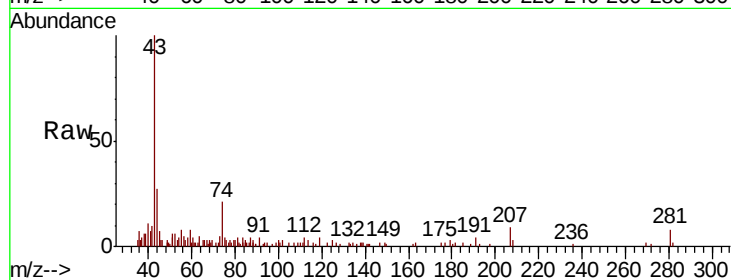
CTR-011

Tot Ion: 43 Resp: 10637

Ion Ratio Lower Upper

43 100

74 17.4 17.5 26.3#



#20

Methylene Chloride

Concen: 8.004 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Tgt Ion: 84 Resp: 48491

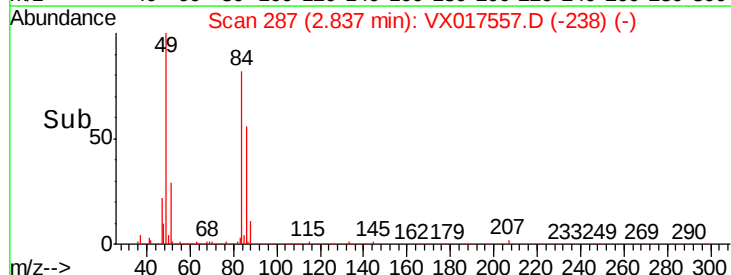
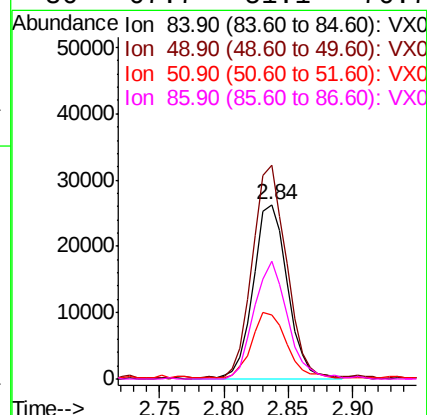
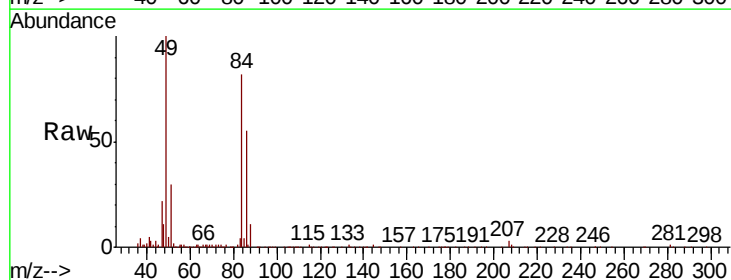
Ion Ratio Lower Upper

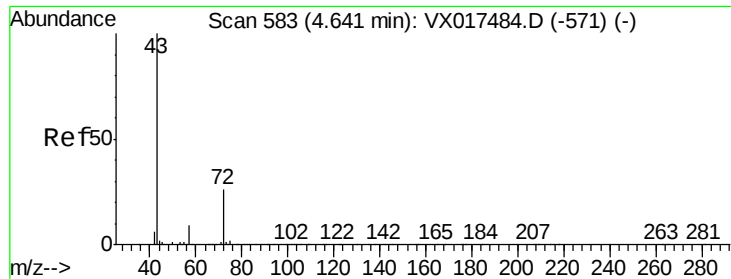
84 100

49 122.0 100.3 150.5

51 36.0 30.5 45.7

86 67.7 51.1 76.7





#25

2-Butanone

Concen: 2.468 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

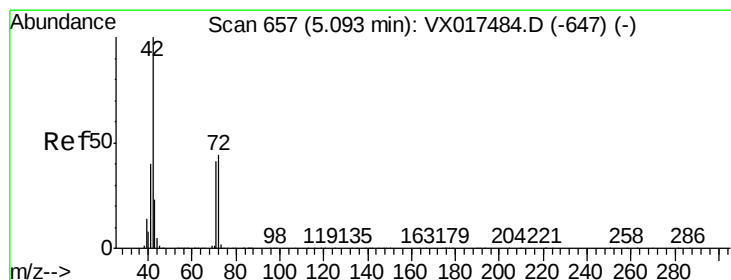
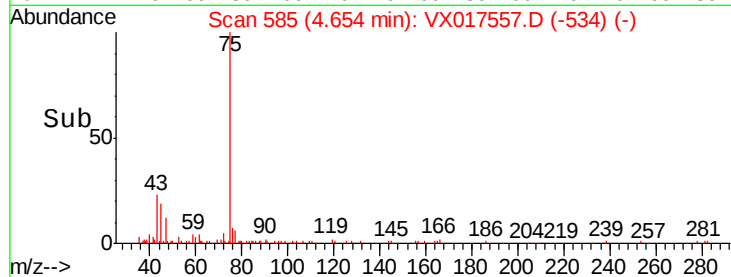
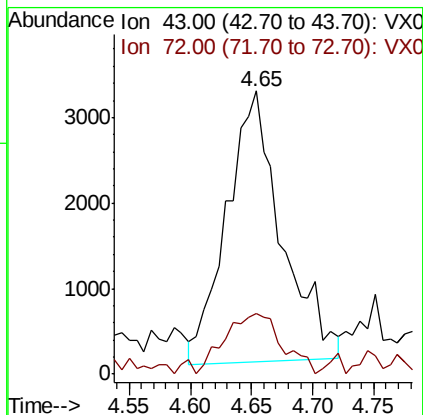
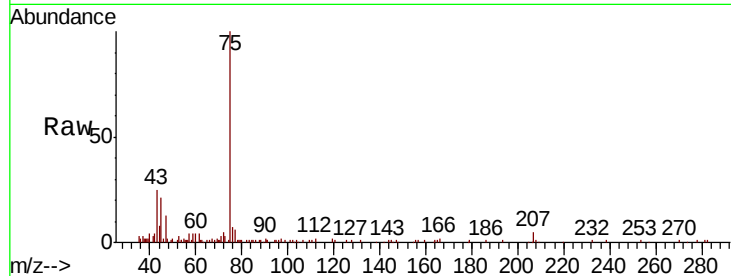
CTR-011

Tot Ion: 43 Resp: 9938

Ion Ratio Lower Upper

43 100

72 18.4 19.0 28.4#



#29

Tetrahydrofuran

Concen: 1.452 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

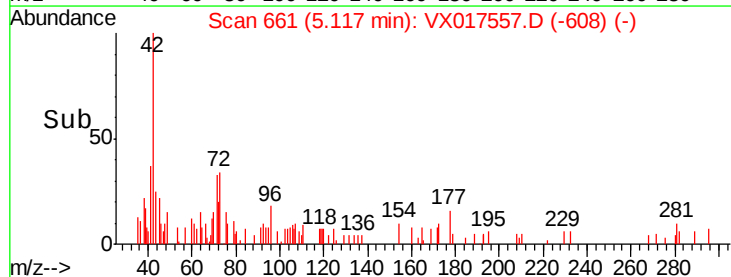
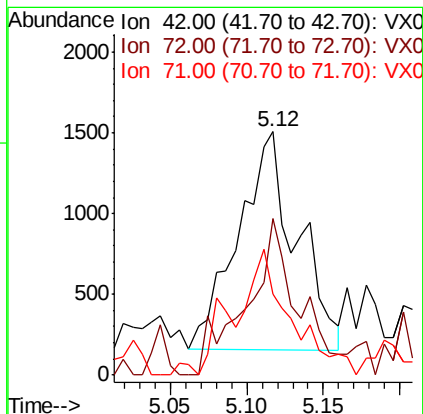
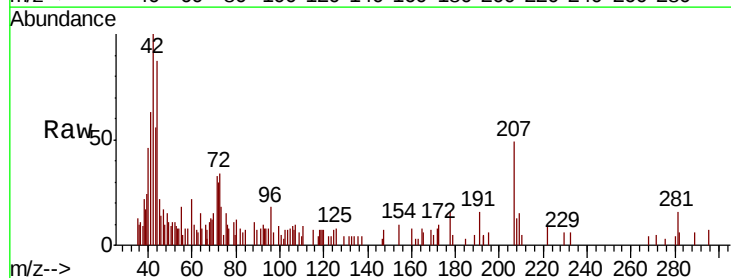
Tgt Ion: 42 Resp: 3623

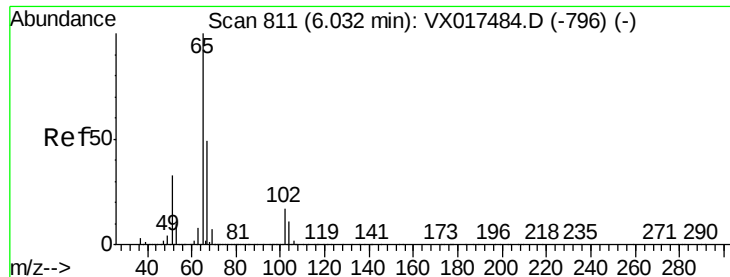
Ion Ratio Lower Upper

42 100

72 64.0 35.5 53.3#

71 41.3 33.0 49.4





#33

1,2-Dichloroethane-d4

Concen: 53.004 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

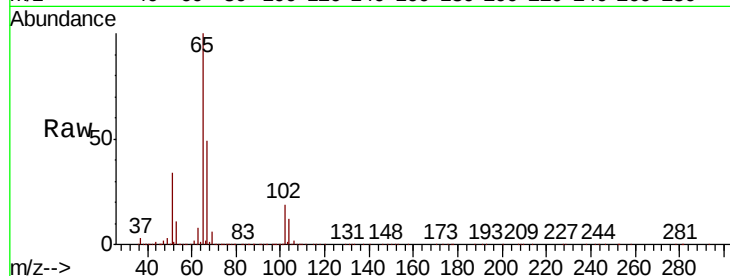
CTR-011

Tot Ion: 65 Resp: 341397

Ion Ratio Lower Upper

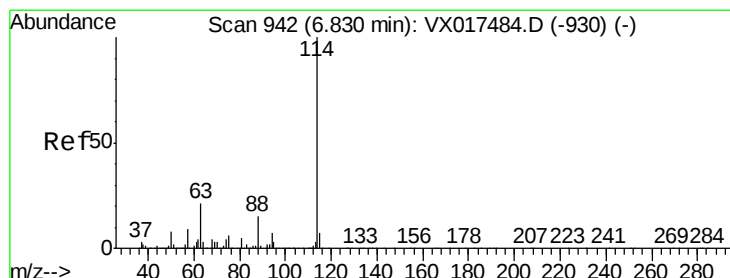
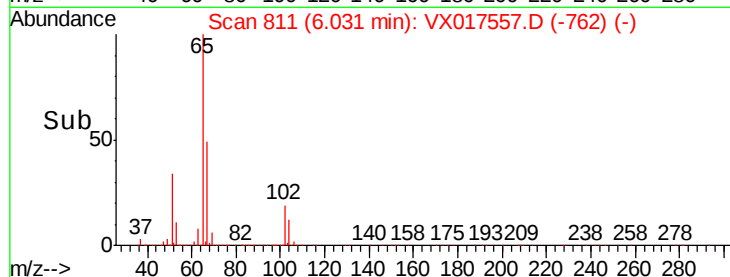
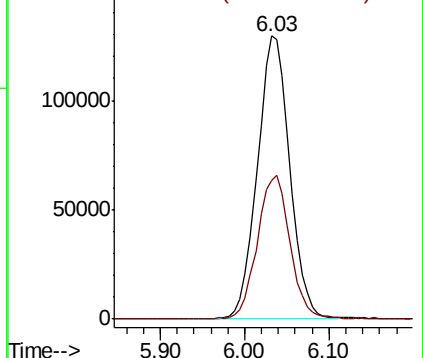
65 100

67 51.2 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

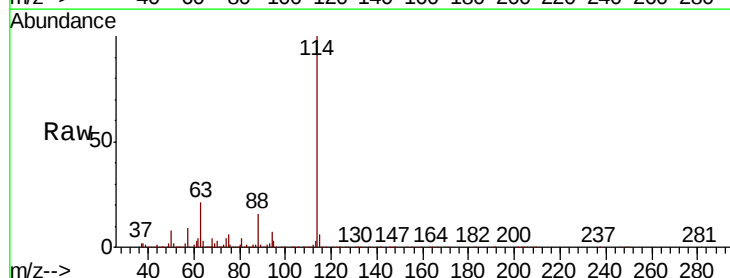
Tgt Ion: 114 Resp: 848047

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.6

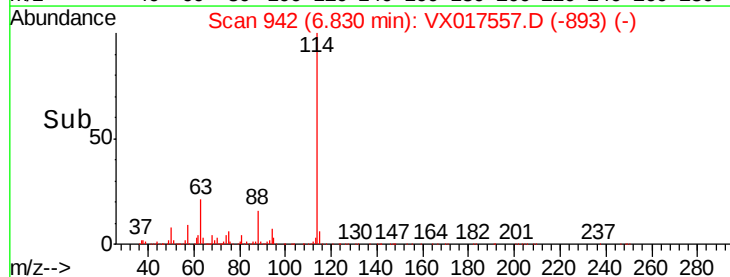
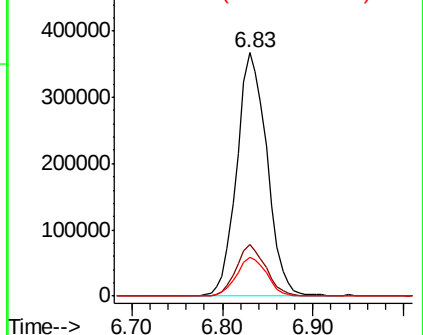
88 15.9 0.0 33.4

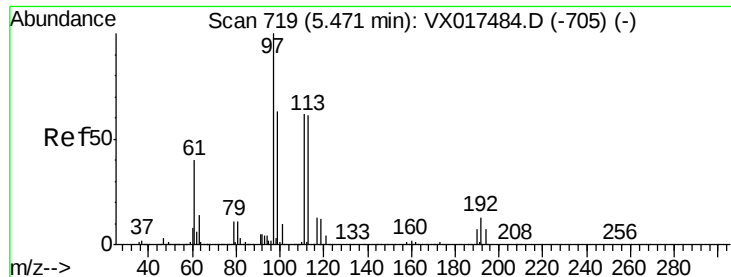


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

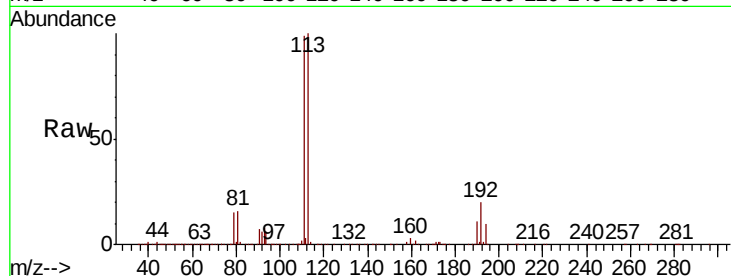




#35
 Dibromofluoromethane
 Concen: 53.499 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017557.D
 Acq: 24 Jul 2020 20:42

Instrument :
 MSVOA_X
 ClientSampled :
 CTR-011

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.7	121.1
192	20.6	16.9	25.3

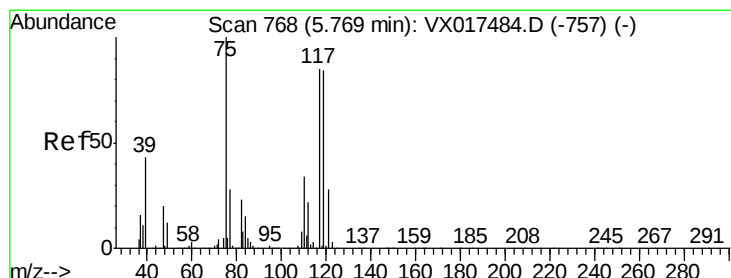
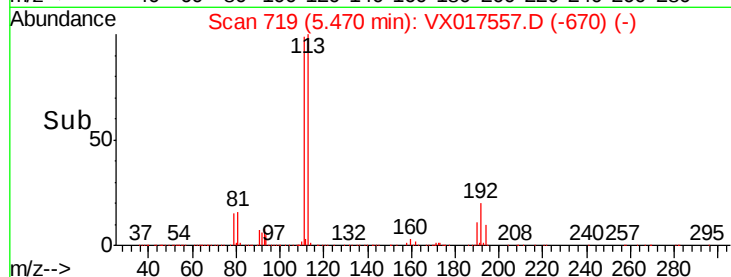
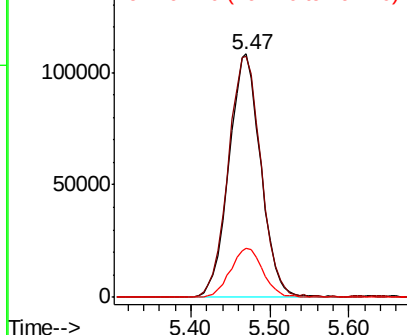


Abundance

Ion 112.80 (112.50 to 113.50): V

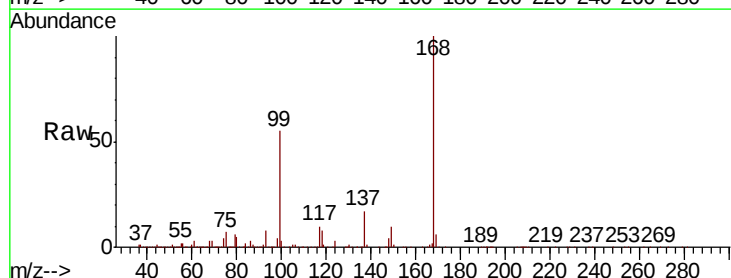
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.488 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017557.D
 Acq: 24 Jul 2020 20:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.4	18.1	54.3#
77	0.8	24.6	37.0#

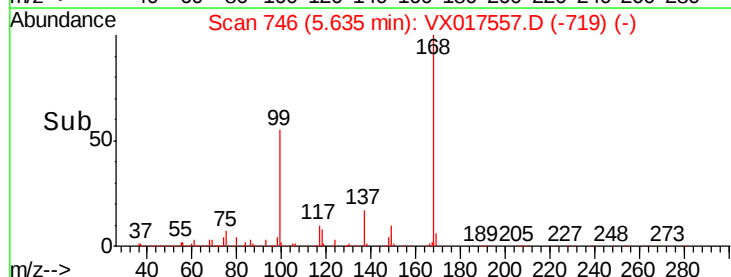
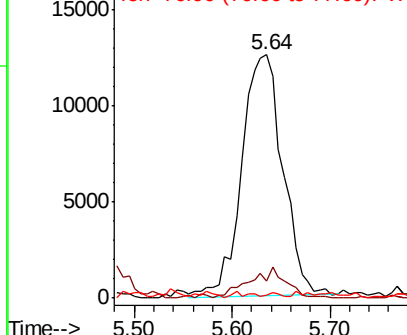


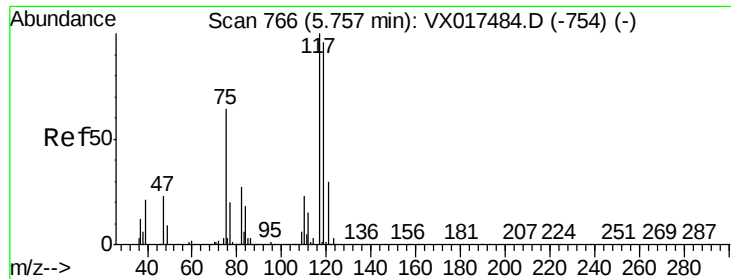
Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.009 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

CTR-011

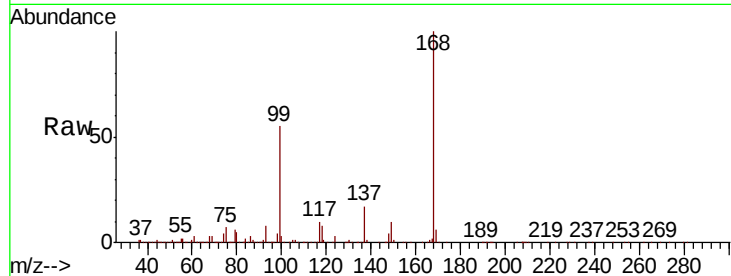
Tot Ion:117 Resp: 49474

Ion Ratio Lower Upper

117 100

119 5.0 75.4 113.0#

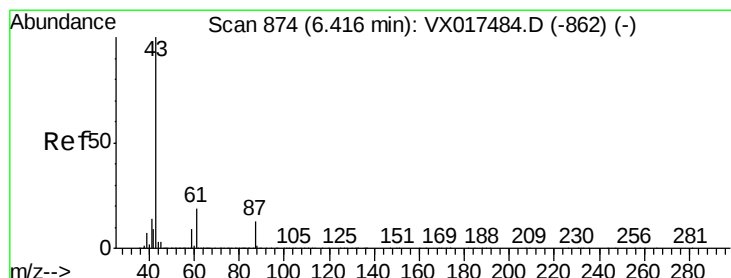
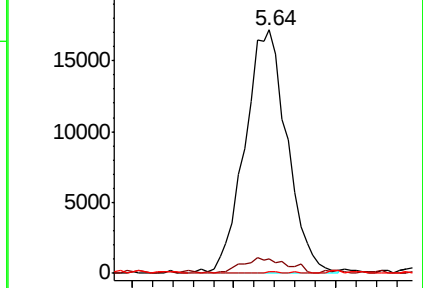
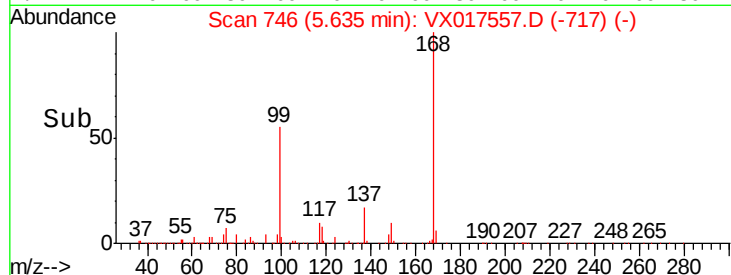
121 0.4 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.620 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

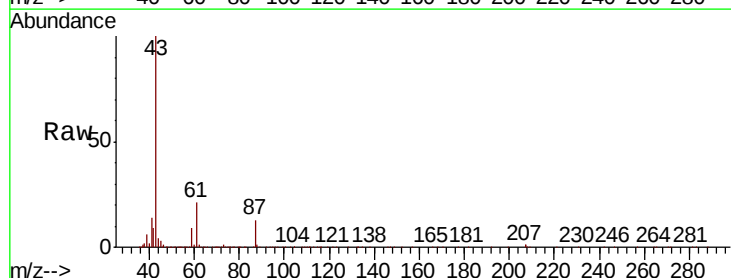
Tgt Ion: 43 Resp: 170615

Ion Ratio Lower Upper

43 100

61 19.8 15.5 23.3

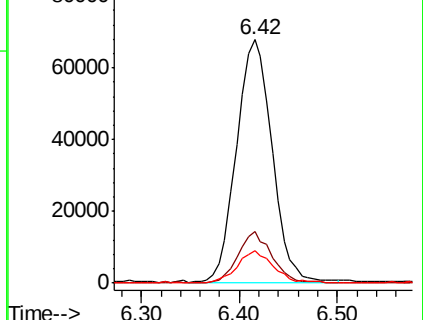
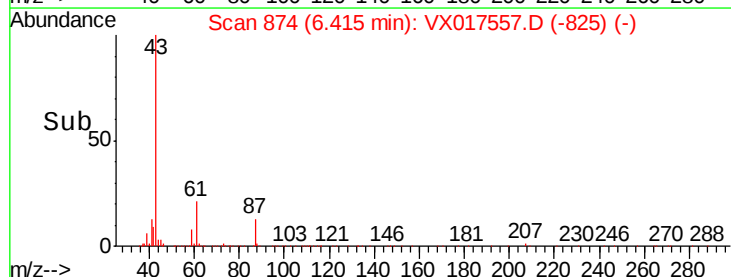
87 13.9 10.5 15.7

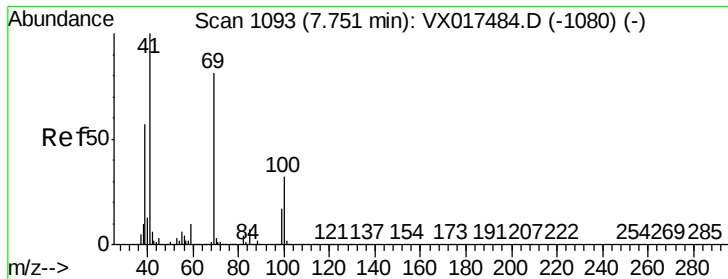


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

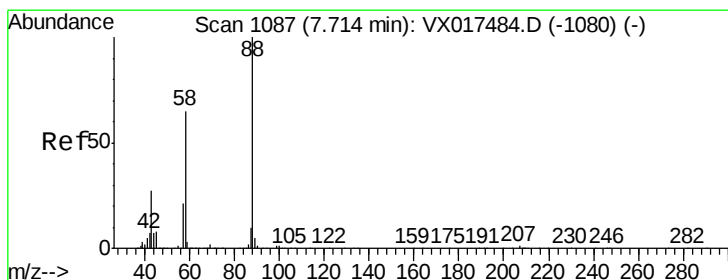
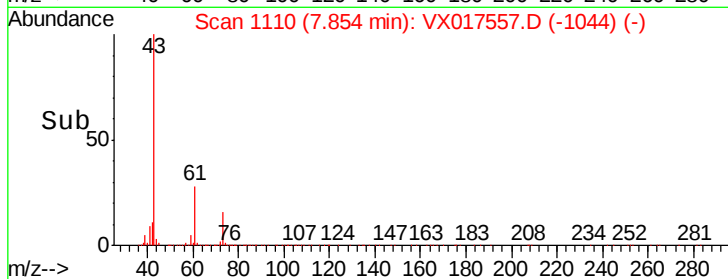
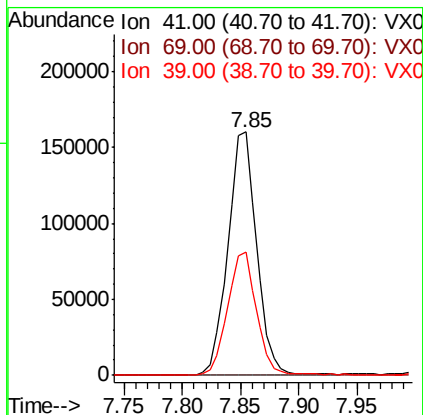
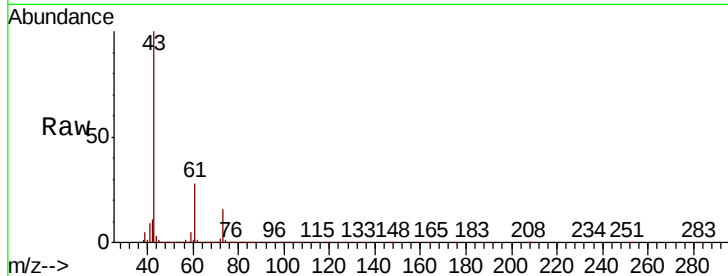




#48
Methvl methacrylate
Concen: 37.344 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.10 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

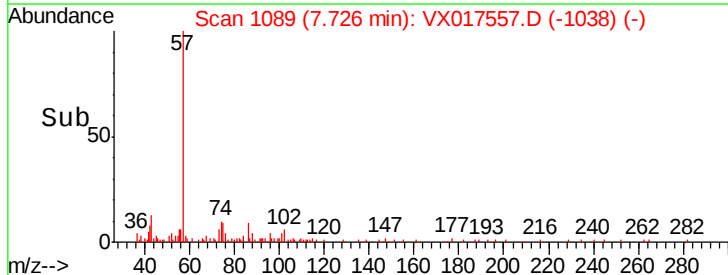
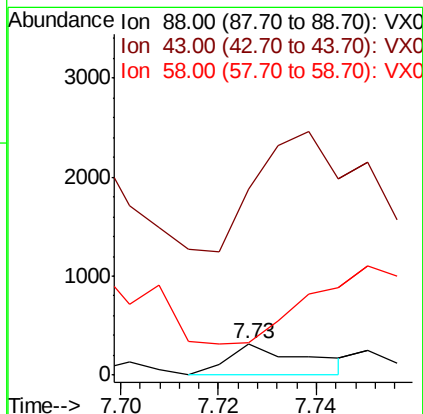
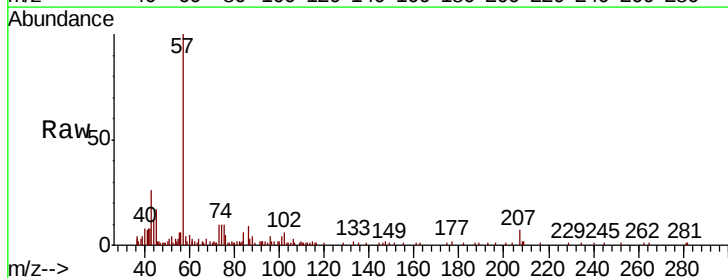
Instrument :
MSVOA_X
ClientSampleId :
CTR-011

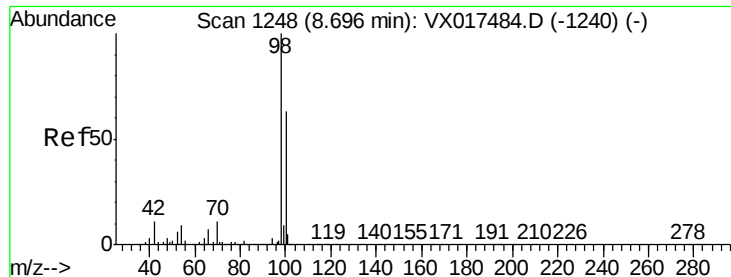
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.5	63.1	94.7#
39	51.4	45.1	67.7



#49
1,4-Dioxane
Concen: 2.565 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	0.0	58.3	87.5#





#50

Toluene-d8

Concen: 56.927 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

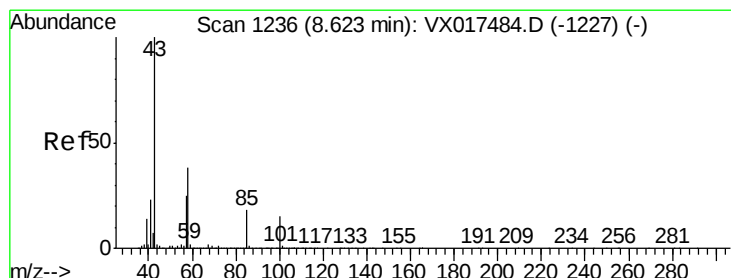
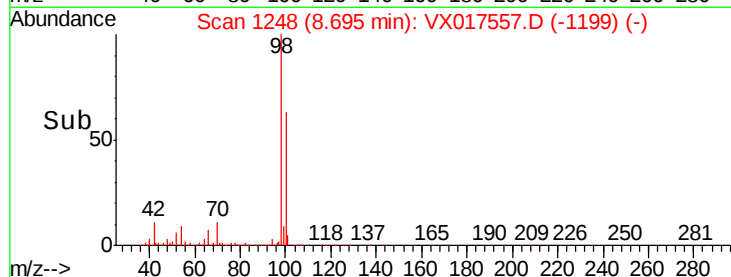
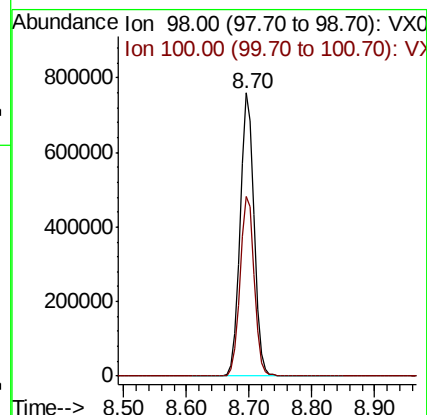
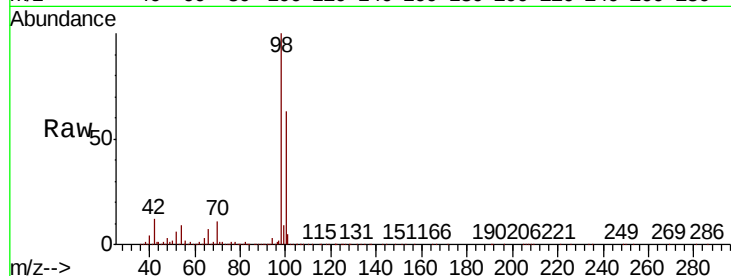
CTR-011

Tot Ion: 98 Resp: 1164776

Ion Ratio Lower Upper

98 100

100 64.4 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 20.847 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017557.D

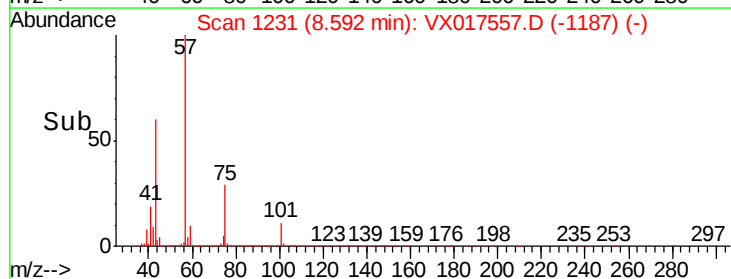
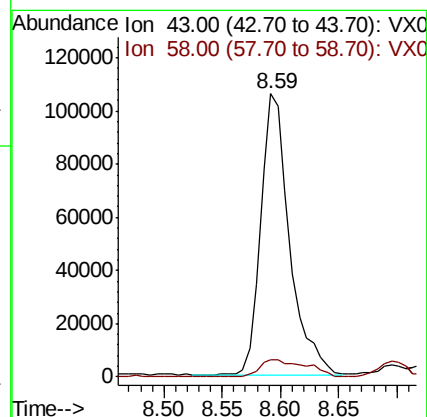
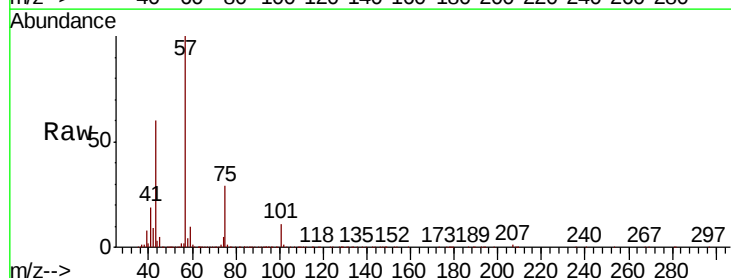
Acq: 24 Jul 2020 20:42

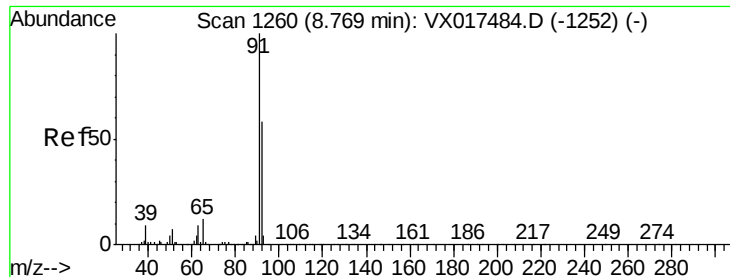
Tgt Ion: 43 Resp: 182638

Ion Ratio Lower Upper

43 100

58 9.9 31.0 46.4#





#52

Toluene

Concen: 0.316 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampled :

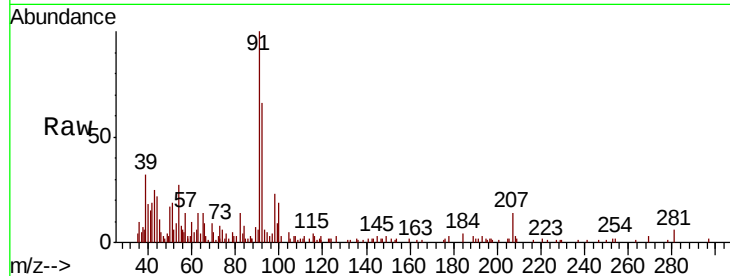
CTR-011

Tot Ion: 92 Resp: 4724

Ion Ratio Lower Upper

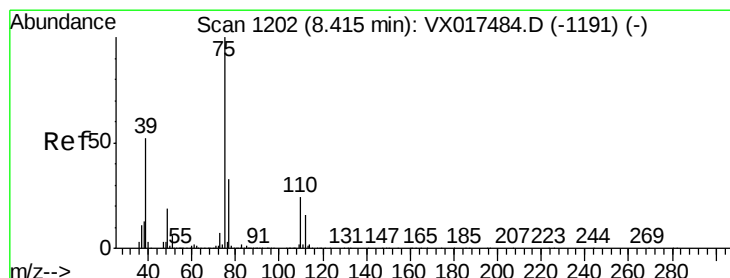
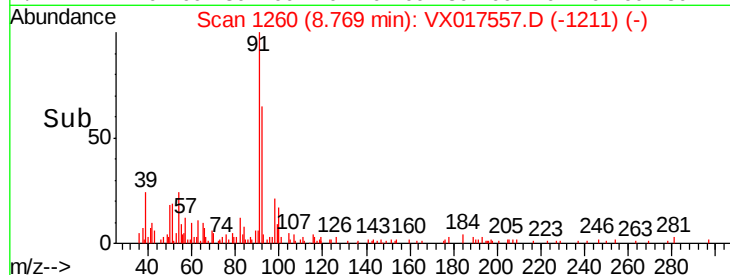
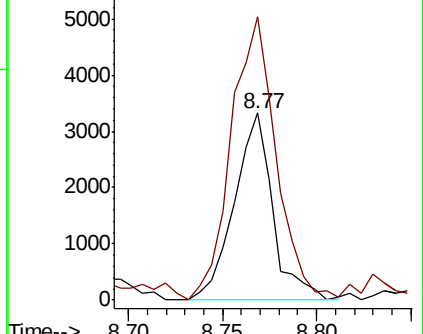
92 100

91 176.3 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 7.503 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

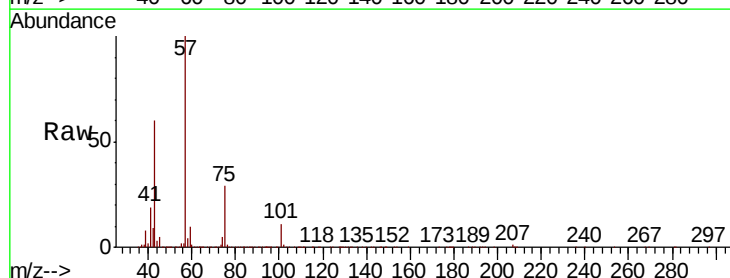
Tgt Ion: 75 Resp: 78747

Ion Ratio Lower Upper

75 100

77 0.9 25.5 38.3#

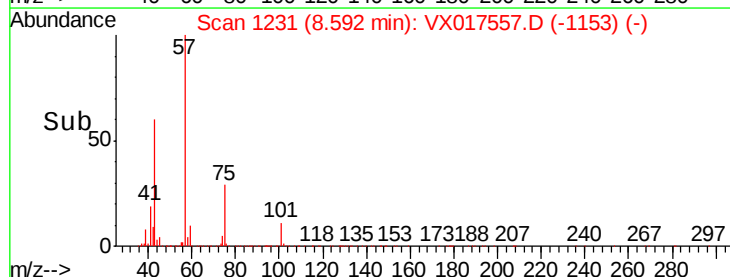
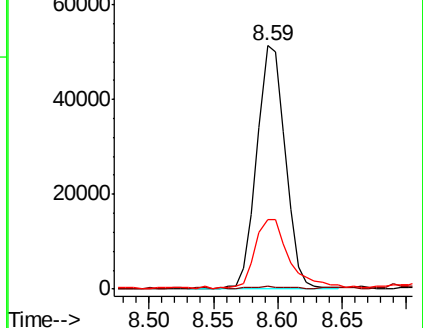
39 28.1 41.8 62.8#

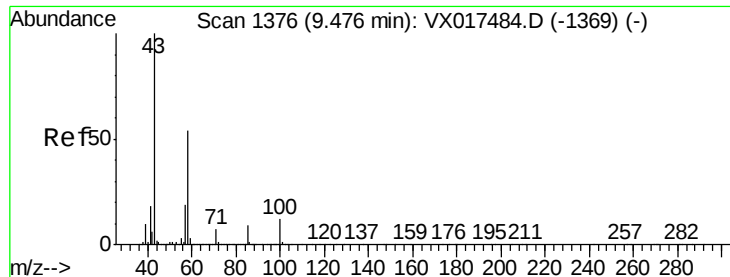


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

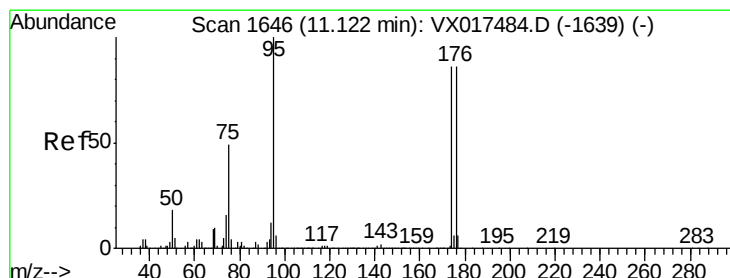
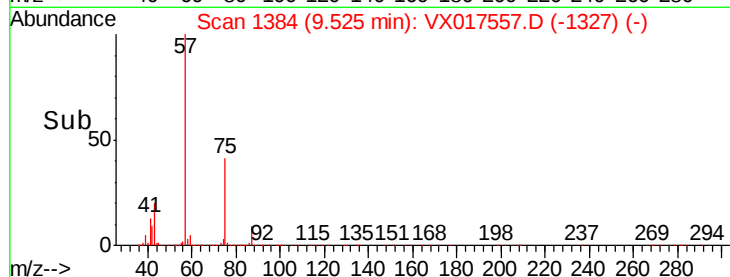
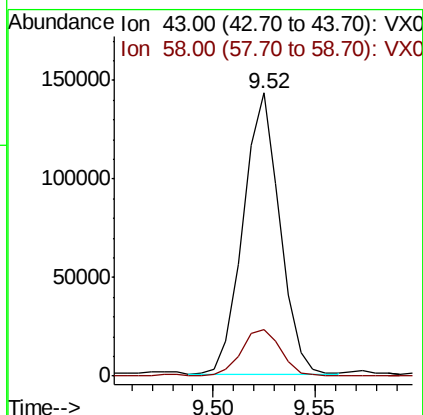
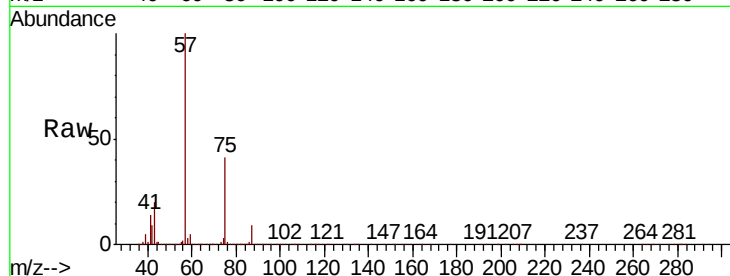




#59
2-Hexanone
Concen: 26.789 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

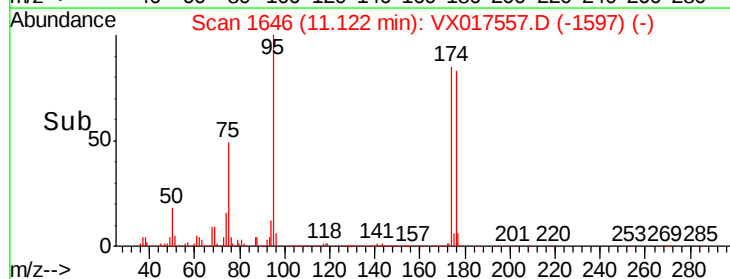
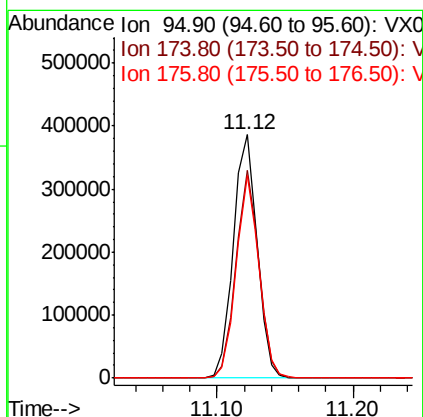
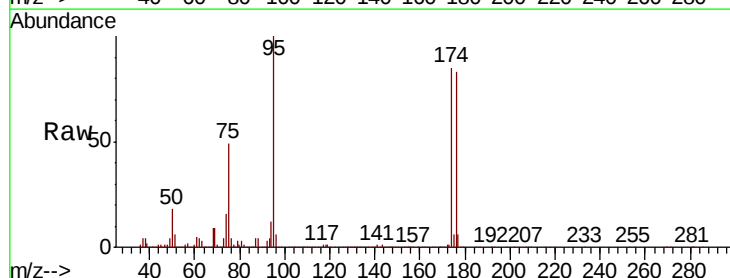
Instrument :
MSVOA_X
ClientSampleId :
CTR-011

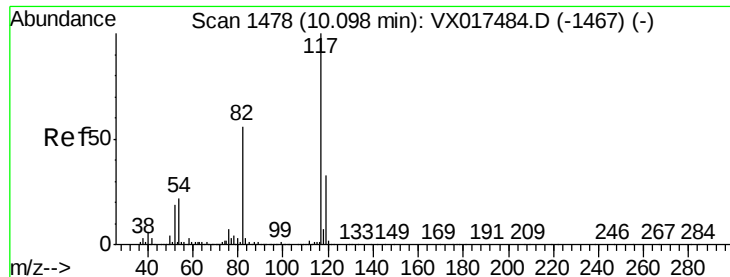
Tot Ion: 43 Resp: 176701
Ion Ratio Lower Upper
43 100
58 18.1 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 57.552 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

Tgt Ion: 95 Resp: 471261
Ion Ratio Lower Upper
95 100
174 82.5 0.0 169.0
176 79.7 0.0 161.0

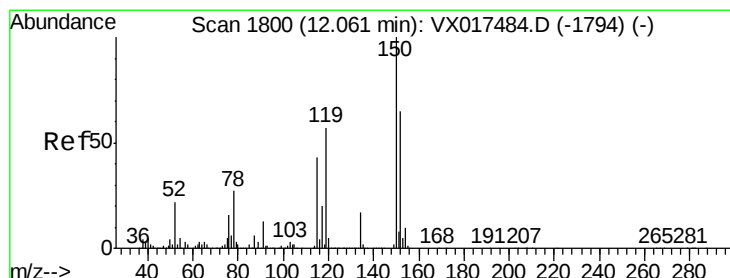
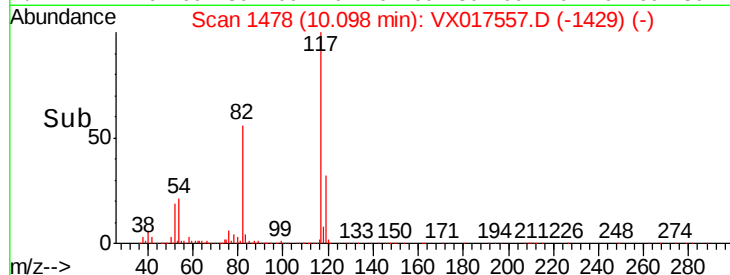
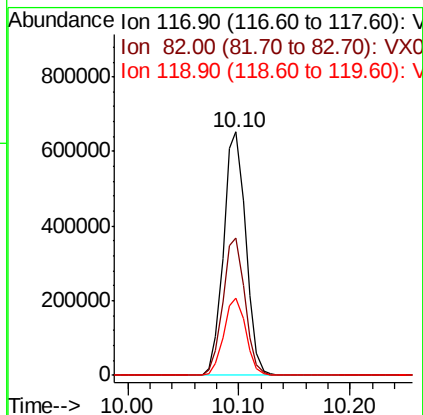
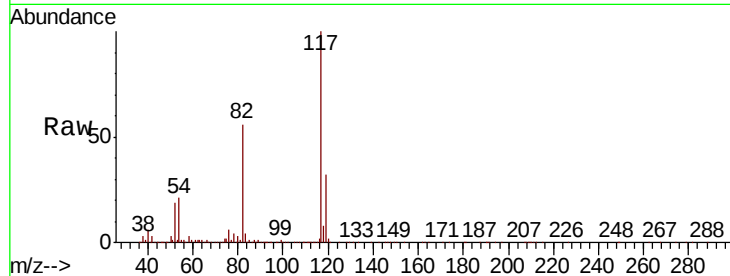




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

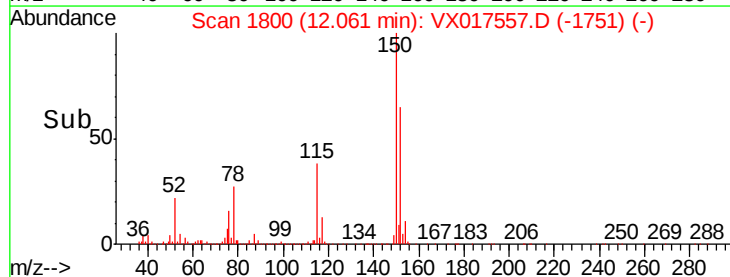
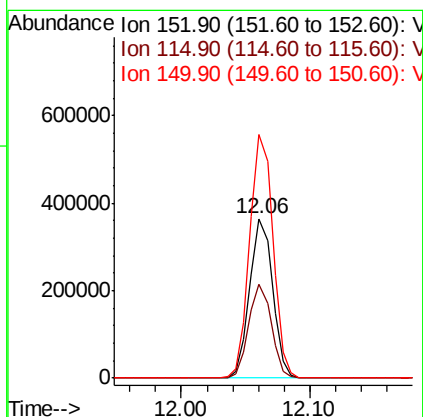
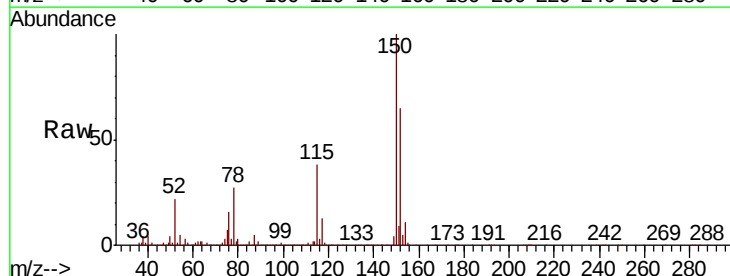
Instrument :
MSVOA_X
ClientSampleId :
CTR-011

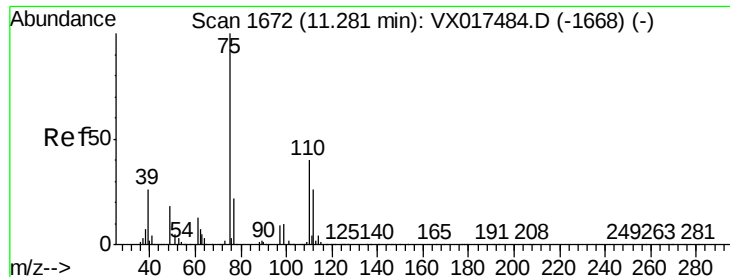
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.0	66.0
119	31.8	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017557.D
Acq: 24 Jul 2020 20:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.0	65.5	196.6#
150	154.7	0.0	412.6





#76

1,2,3-Trichloropropane

Concen: 25.943 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

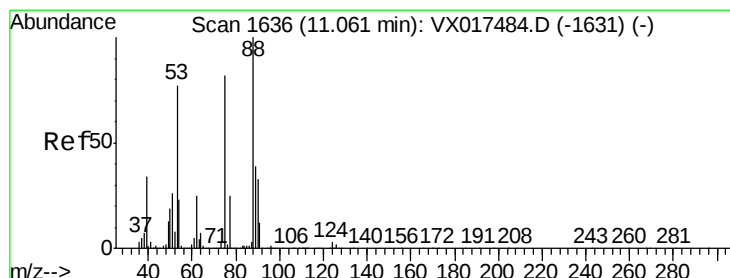
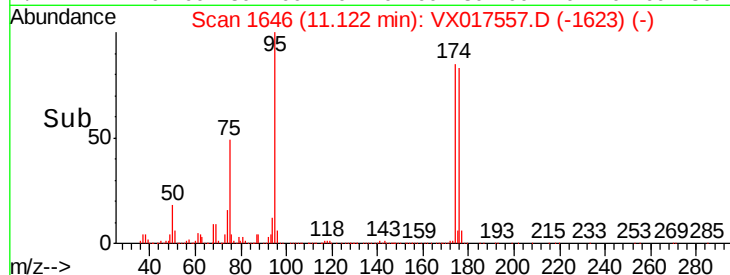
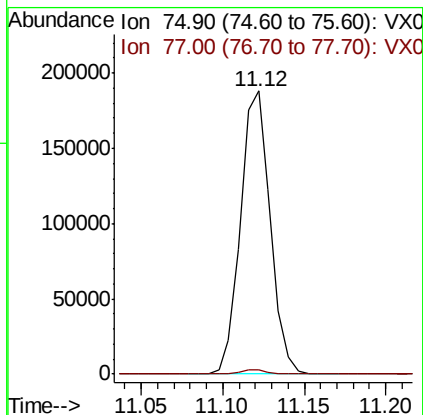
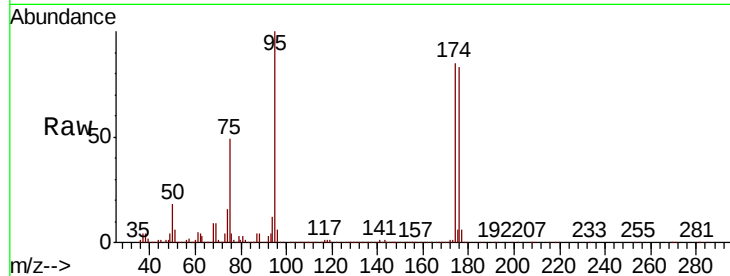
CTR-011

Tot Ion: 75 Resp: 237949

Ion Ratio Lower Upper

75 100

77 1.4 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.371 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

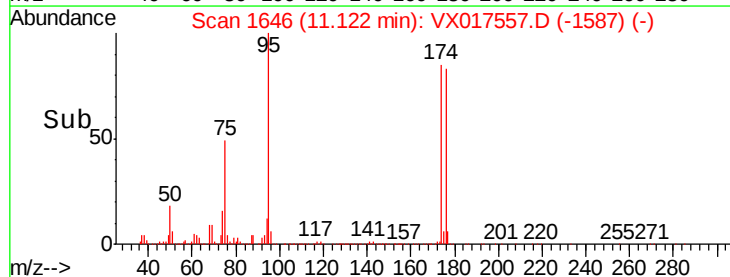
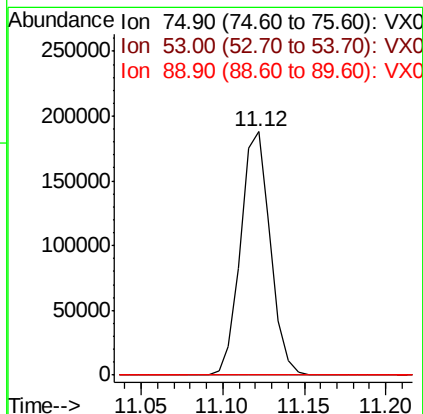
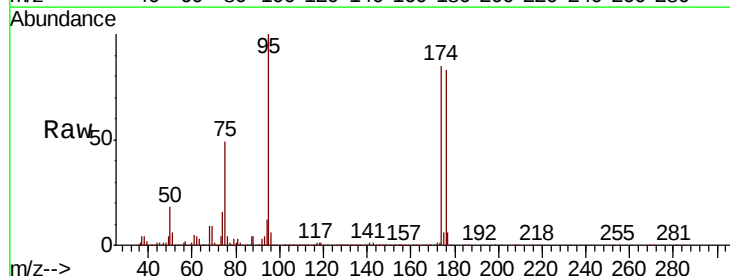
Tgt Ion: 75 Resp: 237949

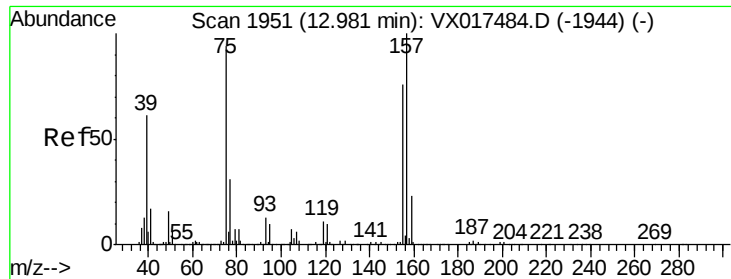
Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.613 ug/l

RT: 13.21 min Scan# 1988

Delta R.T. 0.23 min

Lab File: VX017557.D

Acq: 24 Jul 2020 20:42

Instrument :

MSVOA_X

ClientSampleId :

CTR-011

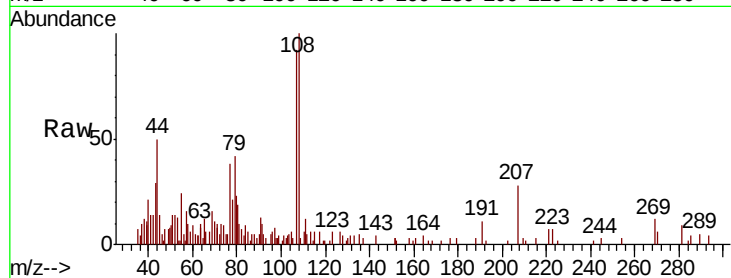
Tot Ion: 75 Resp: 104

Ion Ratio Lower Upper

75 100

155 61.5 42.3 126.8

157 57.7 54.3 162.9



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

