

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017581.D
 Acq On : 25 Jul 2020 09:10
 Operator : JC/SP
 Sample : L3382-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:09:50 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	441152	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	715723	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	755547	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	396864	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	308691	54.47	ug/l	0.00
Spiked Amount			Recovery	=	108.94%	
35) Dibromofluoromethane	5.47	113	258326	53.97	ug/l	0.00
Spiked Amount			Recovery	=	107.94%	
50) Toluene-d8	8.70	98	929475	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
62) 4-Bromofluorobenzene	11.12	95	386137	55.87	ug/l	0.00
Spiked Amount			Recovery	=	111.74%	

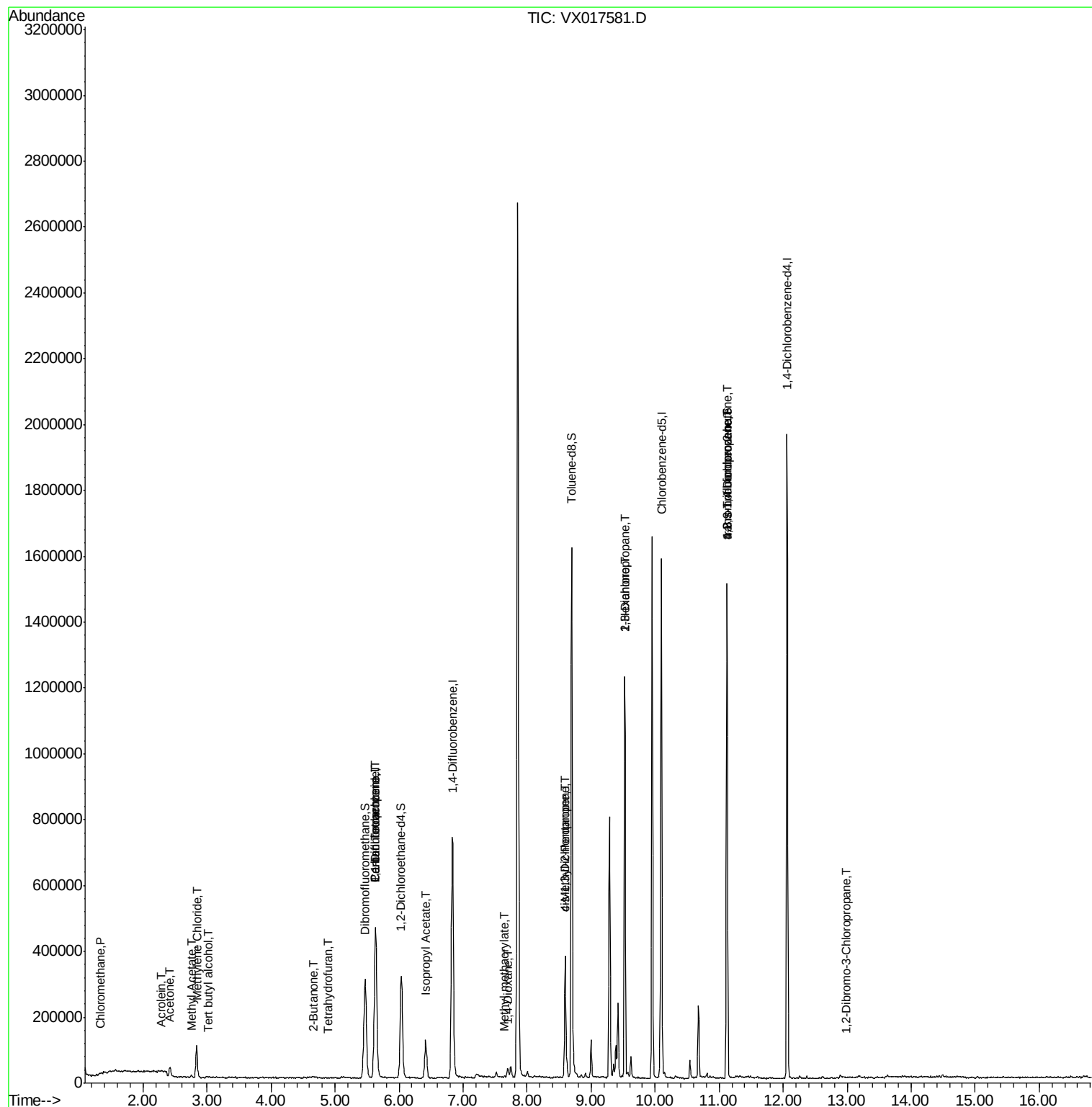
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	210	Below Cal	#	30
3) Chloromethane	1.33	50	898	0.530	ug/l	100
5) Bromomethane	1.60	94	336	Below Cal		82
6) Chloroethane	1.70	64	517	Below Cal	#	1
8) Diethyl Ether	2.17	74	2051	Below Cal		58
11) Tert butyl alcohol	3.01	59	1808	1.514	ug/l	# 67
13) Acrolein	2.28	56	849	5.064	ug/l	# 51
16) Acetone	2.42	43	30580	12.261	ug/l	97
18) Methyl Acetate	2.75	43	9318	1.586	ug/l	97
20) Methylene Chloride	2.84	84	43977	8.291	ug/l	96
25) 2-Butanone	4.66	43	5395	1.523	ug/l	# 81
29) Tetrahydrofuran	4.90	42	547	0.249	ug/l	96
36) 1,1-Dichloropropene	5.62	75	32895	4.792	ug/l	# 49
38) Carbon Tetrachloride	5.63	117	45262	5.430	ug/l	# 16
43) Isopropyl Acetate	6.42	43	153063	12.352	ug/l	99
48) Methyl methacrylate	7.65	41	7934	1.292	ug/l	# 15
49) 1,4-Dioxane	7.70	88	145	1.231	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.59	43	139548	18.873	ug/l	# 47
54) cis-1,3-Dichloropropene	8.59	75	59648	6.734	ug/l	# 60
57) 1,3-Dichloropropane	9.52	76	10385	1.200	ug/l	# 46
59) 2-Hexanone	9.52	43	146501	26.317	ug/l	# 52
76) 1,2,3-Trichloropropane	11.12	75	200059	24.506	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	11.12	75	200059	61.750	ug/l	# 11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	503	2.775	ug/l	# 5

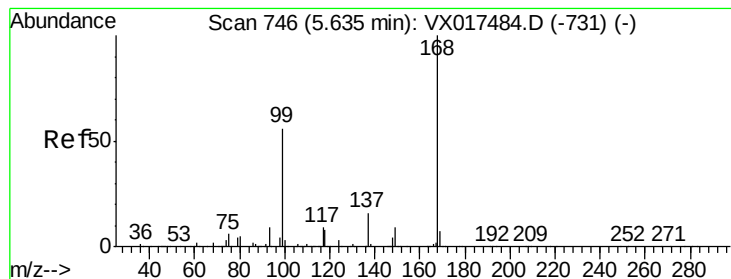
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

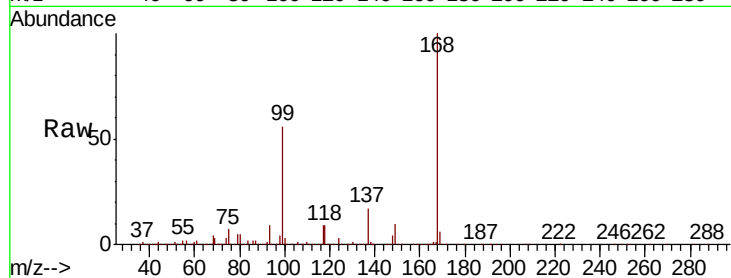
ClientSampleId :

Tot Ion:168 Resp: 441152

Ion Ratio Lower Upper

168 100

99 56.4 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

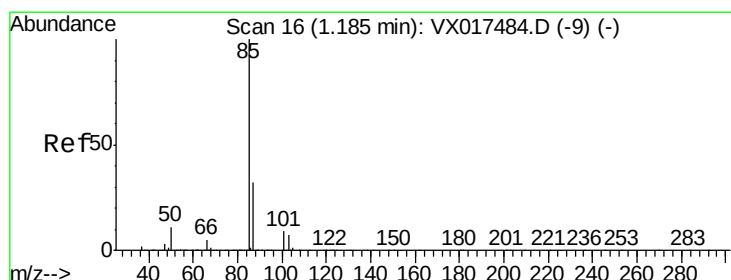
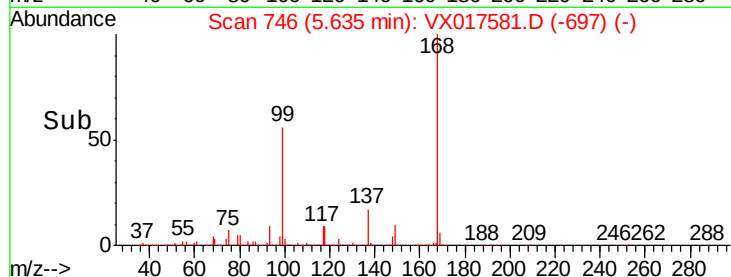
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 19

Delta R.T. 0.02 min

Lab File: VX017581.D

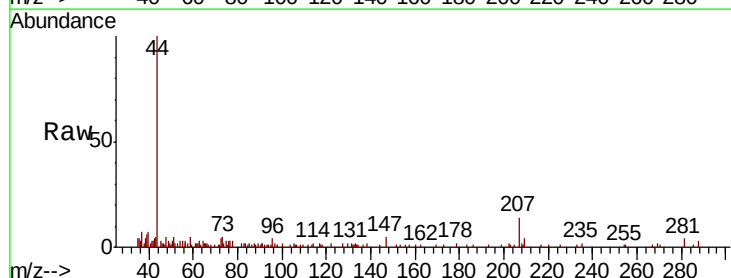
Acq: 25 Jul 2020 09:10

Tgt Ion: 85 Resp: 210

Ion Ratio Lower Upper

85 100

87 71.1 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

250

200

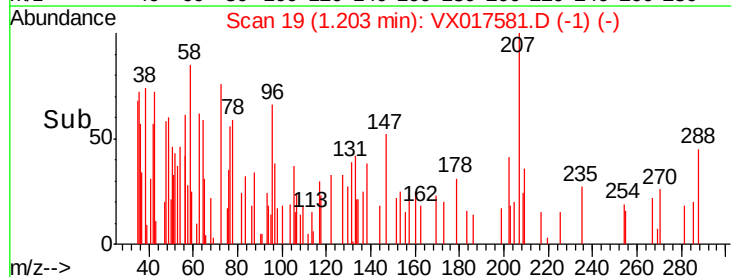
150

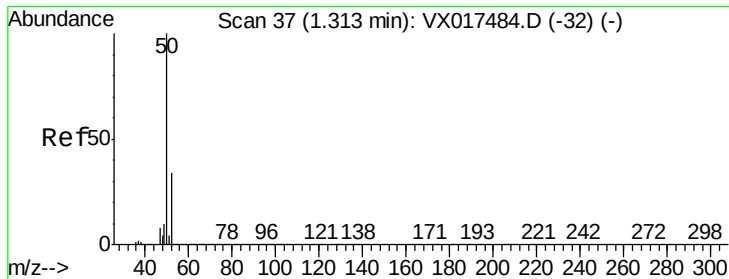
100

50

0

Time-->





#3

Chloromethane

Concen: 0.530 ug/l

RT: 1.33 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

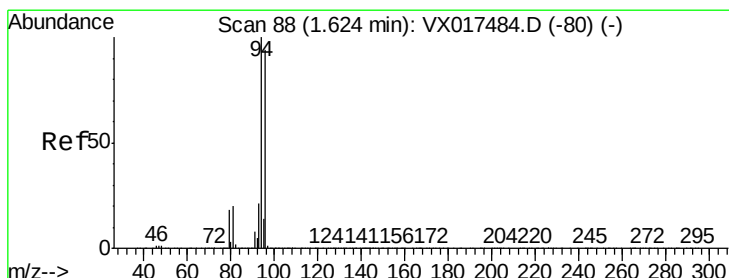
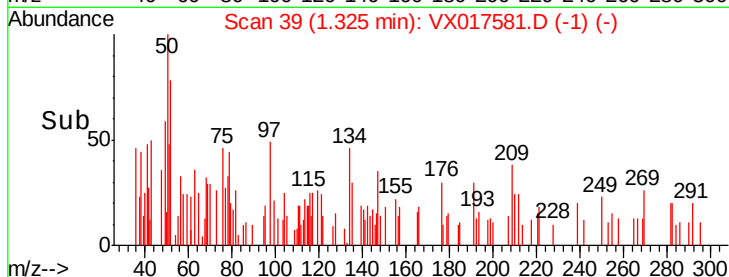
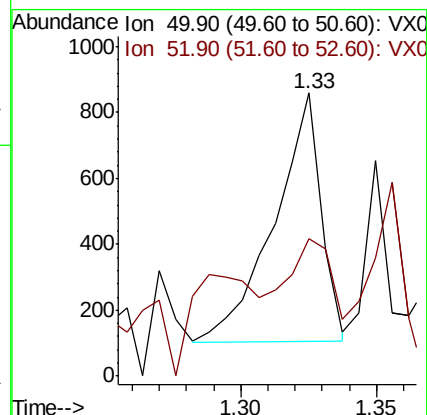
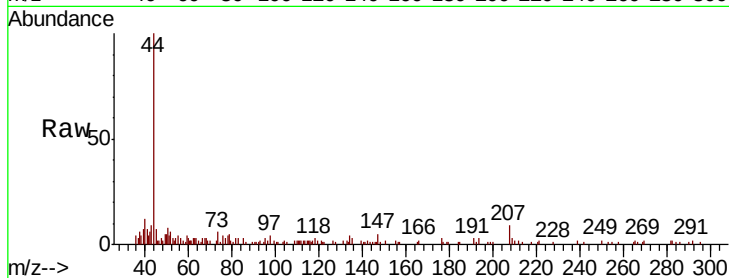
ClientSampled :

Tot Ion: 50 Resp: 898

Ion Ratio Lower Upper

50 100

52 32.5 25.9 38.9



#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 84

Delta R.T. -0.02 min

Lab File: VX017581.D

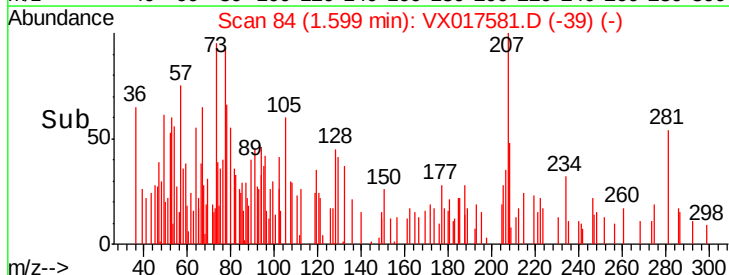
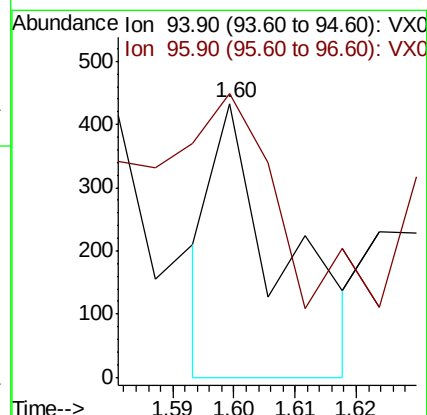
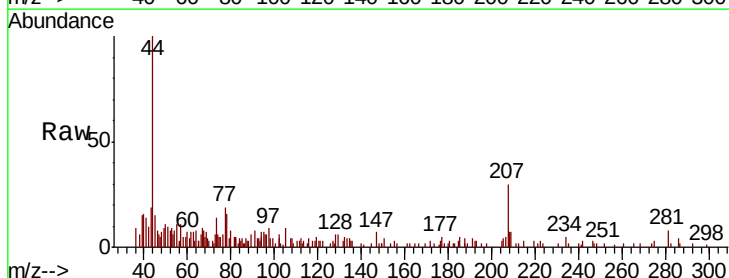
Acq: 25 Jul 2020 09:10

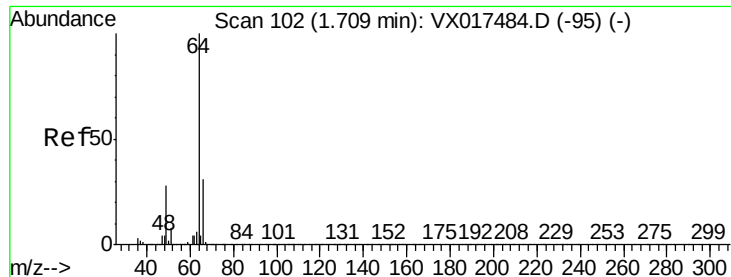
Tgt Ion: 94 Resp: 336

Ion Ratio Lower Upper

94 100

96 109.4 74.1 111.1





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

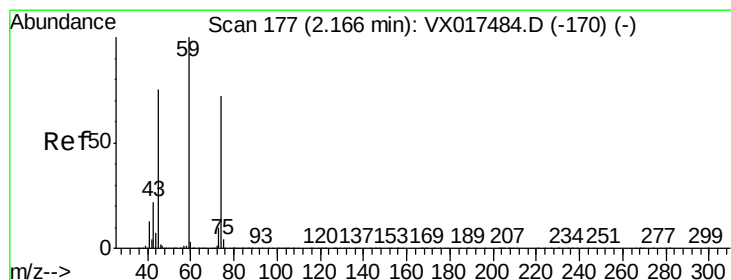
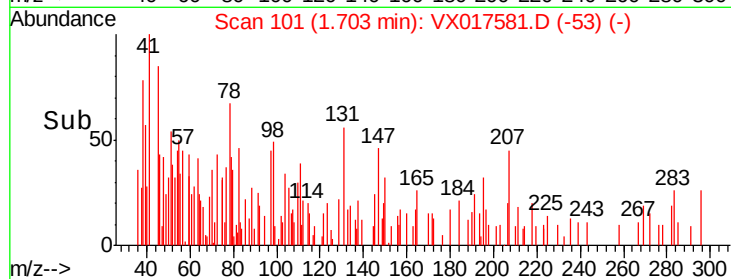
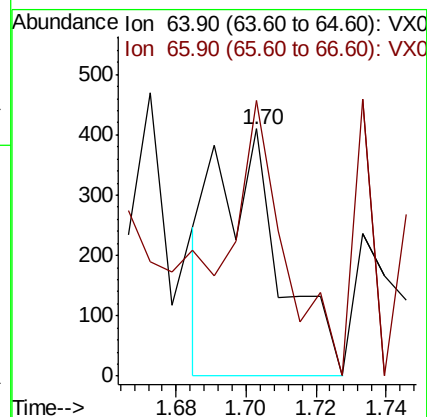
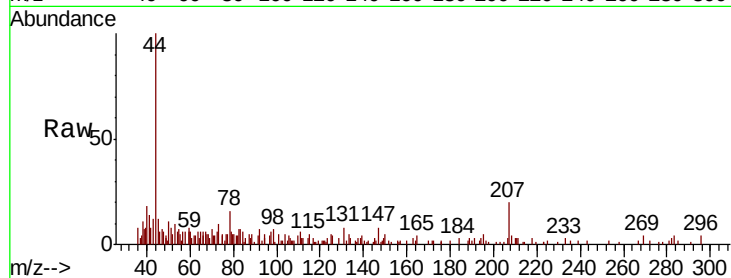
ClientSampled :

Tot Ion: 64 Resp: 517

Ion Ratio Lower Upper

64 100

66 111.2 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017581.D

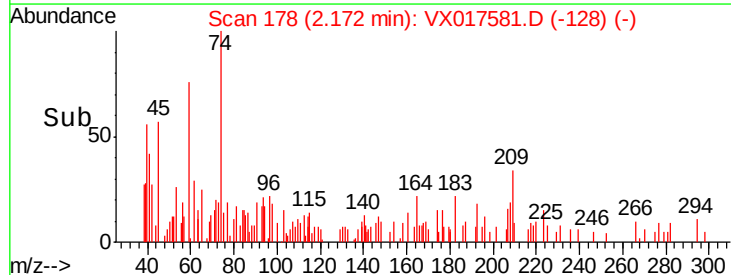
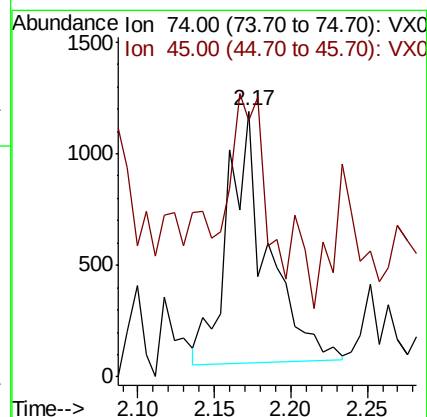
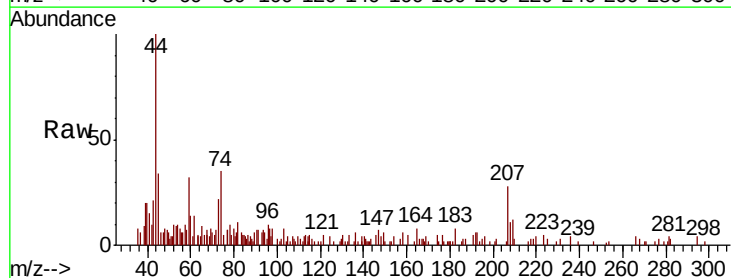
Acq: 25 Jul 2020 09:10

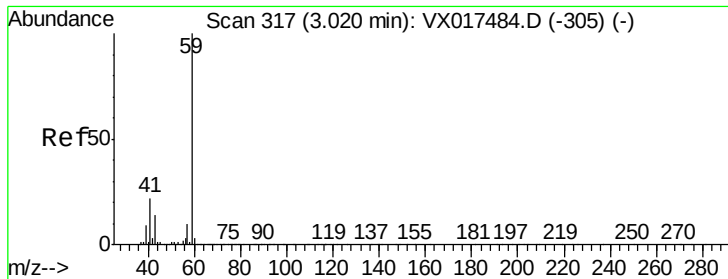
Tgt Ion: 74 Resp: 2051

Ion Ratio Lower Upper

74 100

45 59.0 50.8 152.5

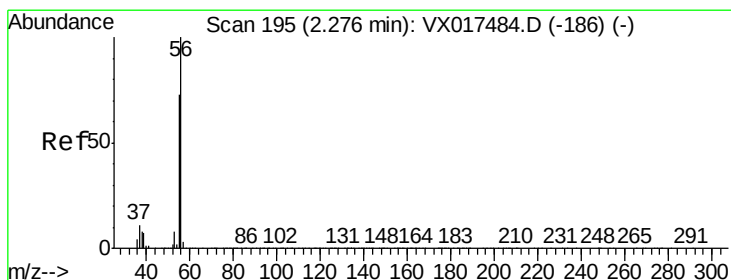
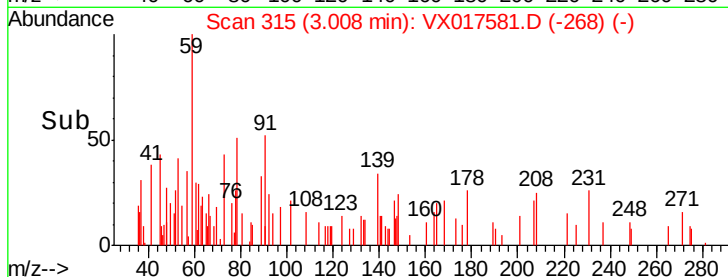
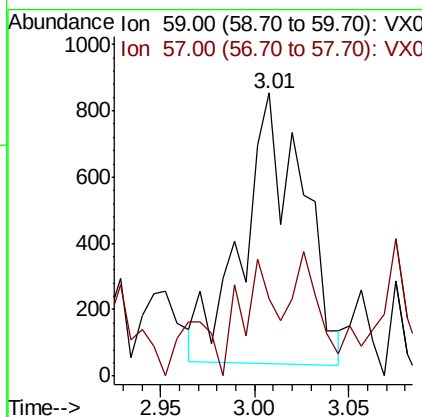
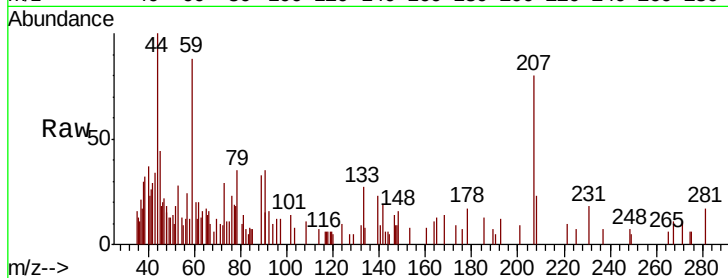




#11
Tert butyl alcohol
Concen: 1.514 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

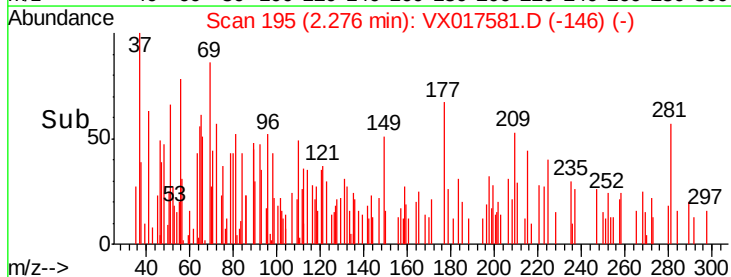
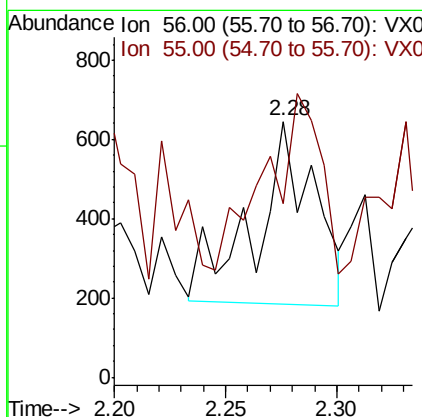
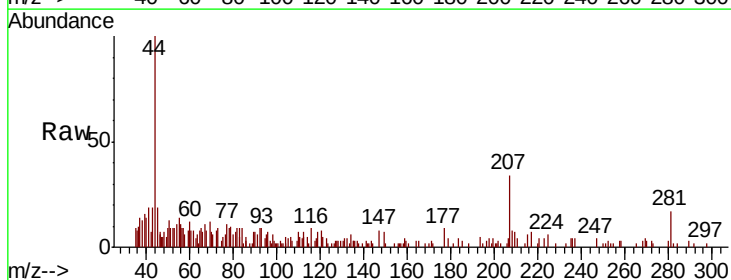
Instrument :
MSVOA_X
ClientSampled :

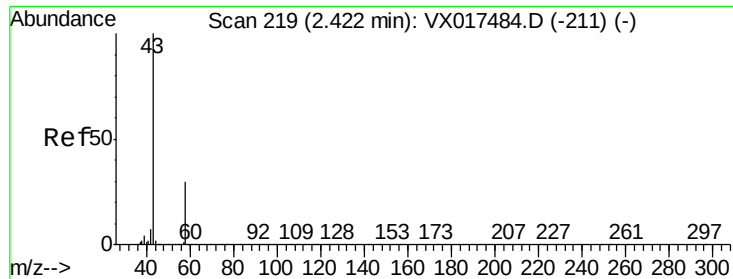
Tot Ion: 59 Resp: 1808
Ion Ratio Lower Upper
59 100
57 23.3 8.6 12.8#



#13
Acrolein
Concen: 5.064 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.00 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

Tgt Ion: 56 Resp: 849
Ion Ratio Lower Upper
56 100
55 112.8 57.4 86.2#

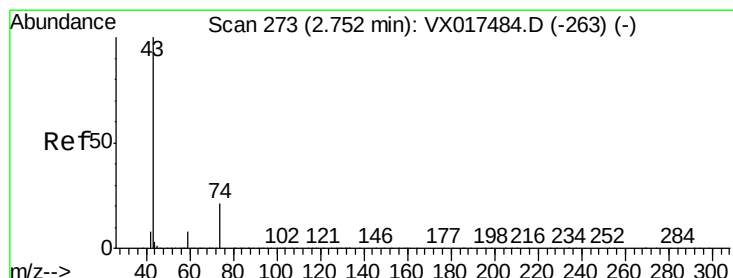
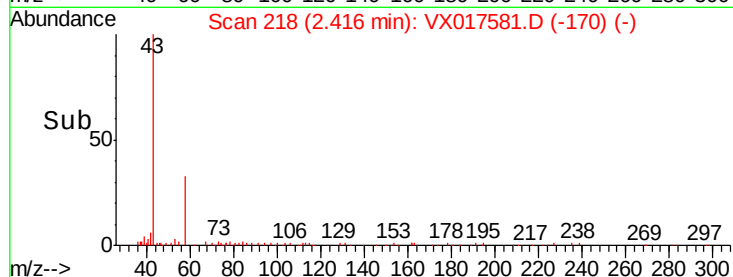
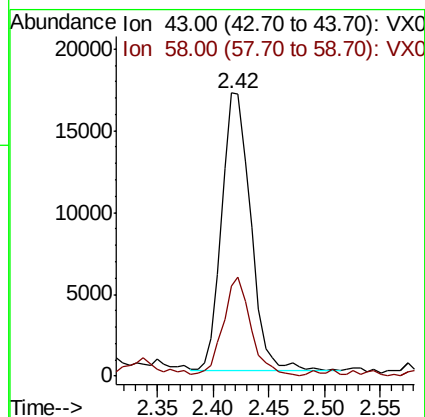
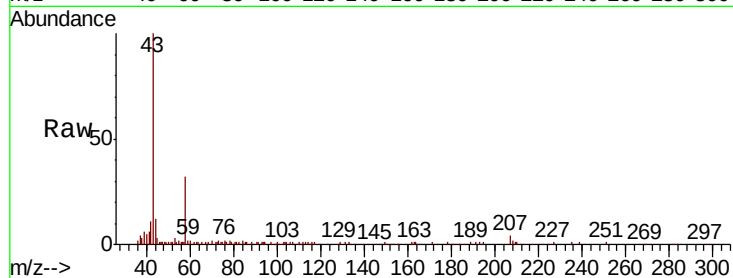




#16
Acetone
Concen: 12.261 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

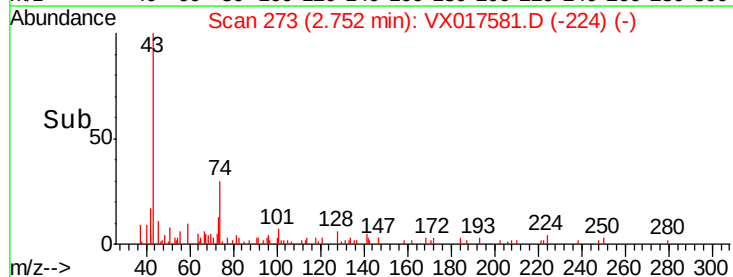
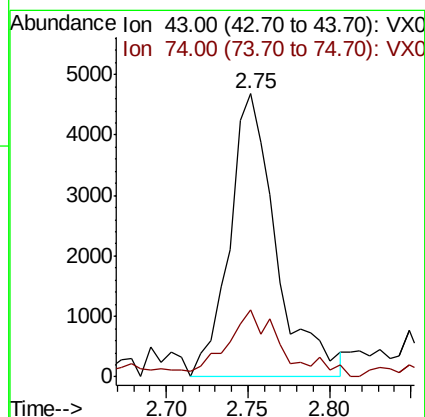
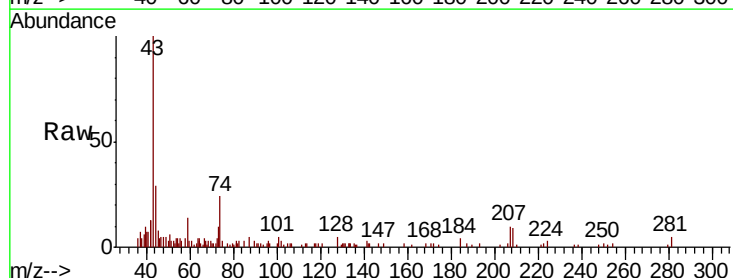
Instrument :
MSVOA_X
ClientSampleId :

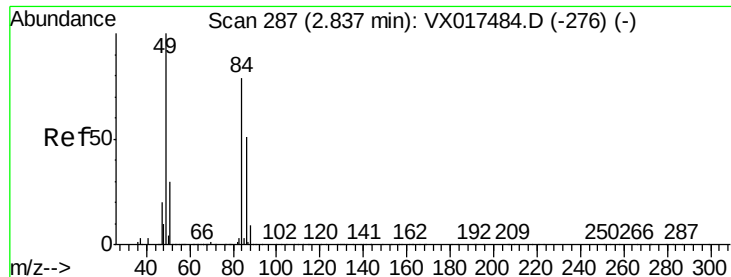
Tot Ion: 43 Resp: 30580
Ion Ratio Lower Upper
43 100
58 32.2 24.2 36.4



#18
Methyl Acetate
Concen: 1.586 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

Tgt Ion: 43 Resp: 9318
Ion Ratio Lower Upper
43 100
74 20.3 17.5 26.3

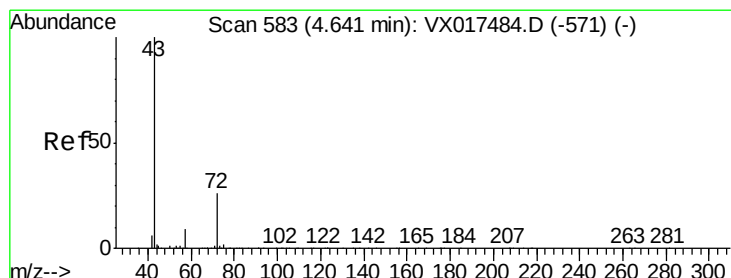
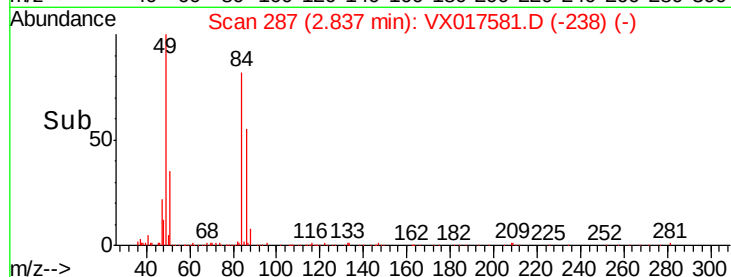
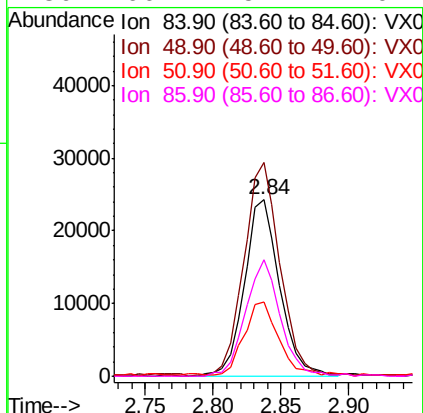
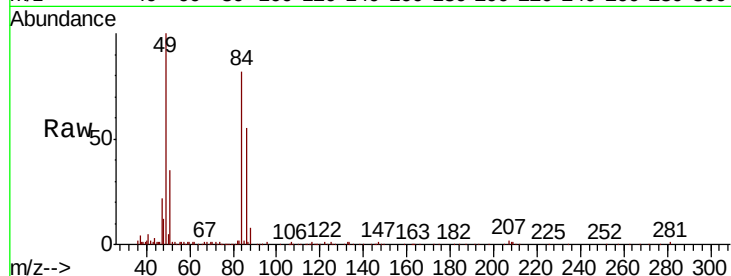




#20
Methylene Chloride
Concen: 8.291 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

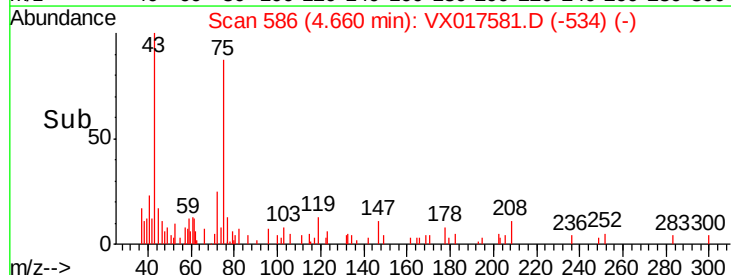
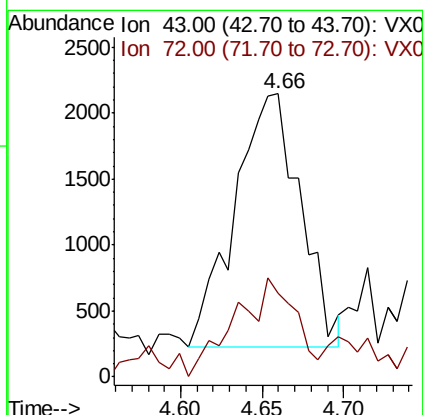
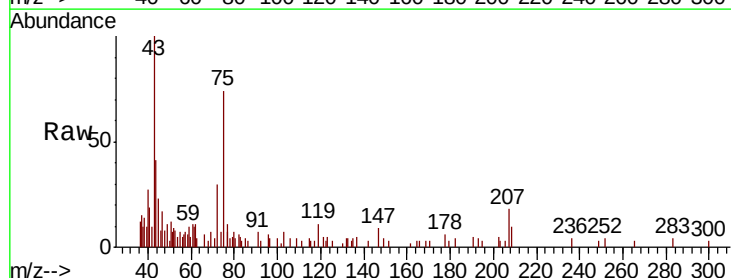
Instrument :
MSVOA_X
ClientSampleId :

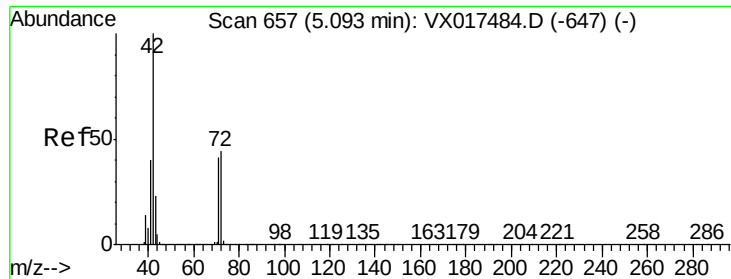
Tot Ion: 84 Resp: 43977
Ion Ratio Lower Upper
84 100
49 121.0 100.3 150.5
51 40.8 30.5 45.7
86 66.4 51.1 76.7



#25
2-Butanone
Concen: 1.523 ug/l
RT: 4.66 min Scan# 586
Delta R.T. 0.02 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

Tgt Ion: 43 Resp: 5395
Ion Ratio Lower Upper
43 100
72 33.1 19.0 28.4#

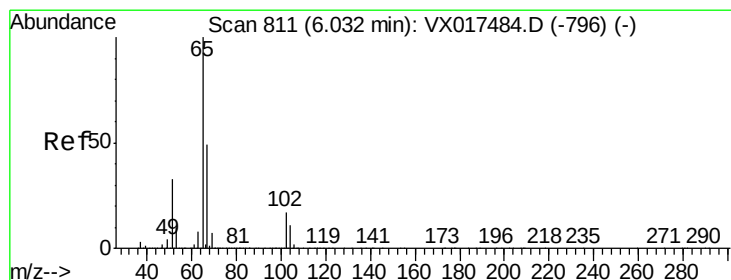
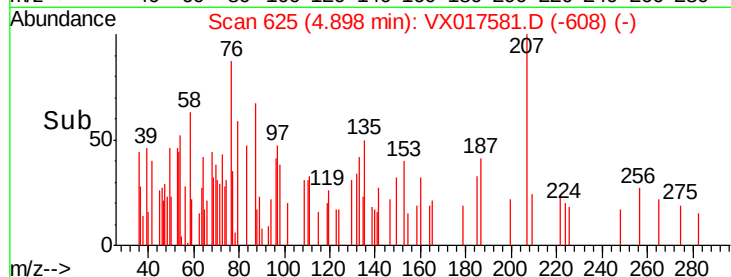
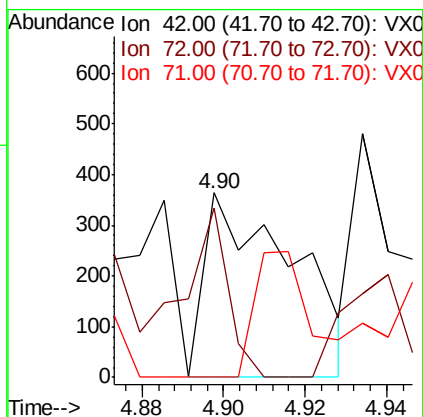
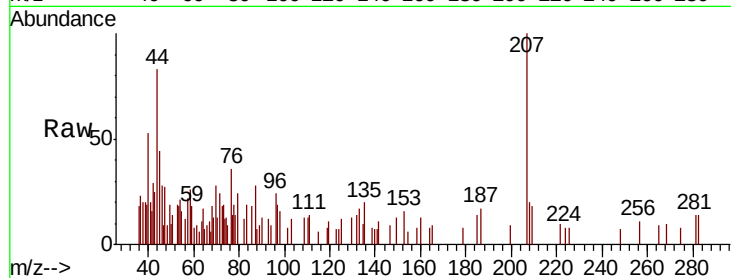




#29
Tetrahydrofuran
Concen: 0.249 ug/l
RT: 4.90 min Scan# 625
Delta R.T. -0.20 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

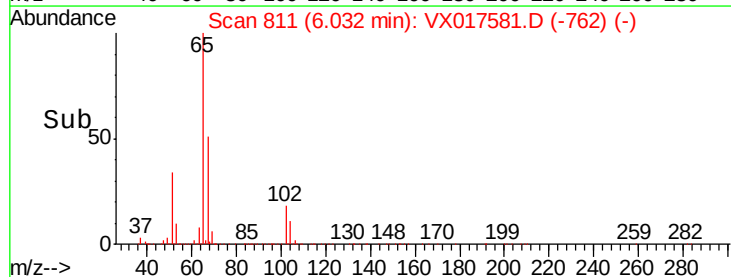
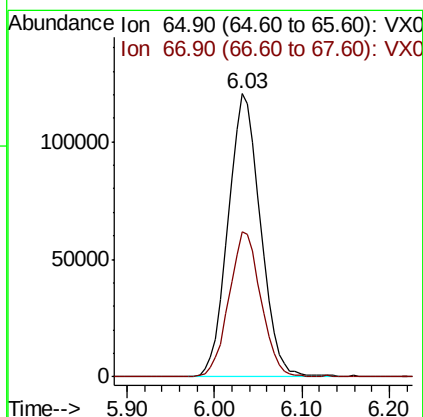
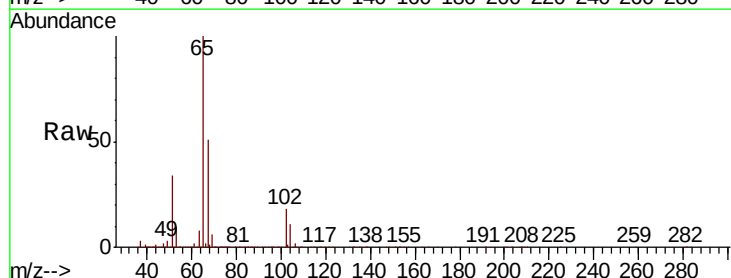
Instrument :
MSVOA_X
ClientSampled :

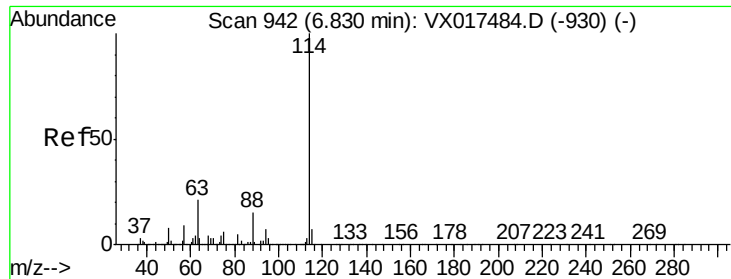
Tot Ion: 42 Resp: 547
Ion Ratio Lower Upper
42 100
72 47.0 35.5 53.3
71 43.3 33.0 49.4



#33
1,2-Dichloroethane-d4
Concen: 54.474 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

Tgt Ion: 65 Resp: 308691
Ion Ratio Lower Upper
65 100
67 50.9 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

ClientSampleId :

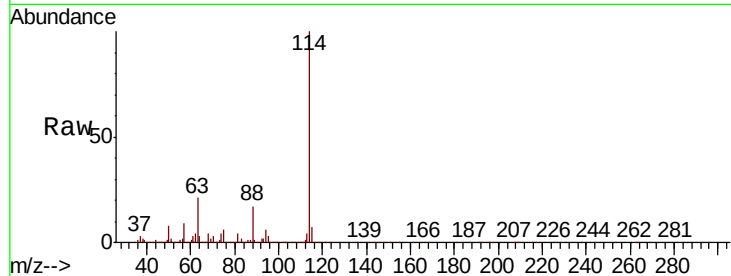
Tot Ion:114 Resp: 715723

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.6

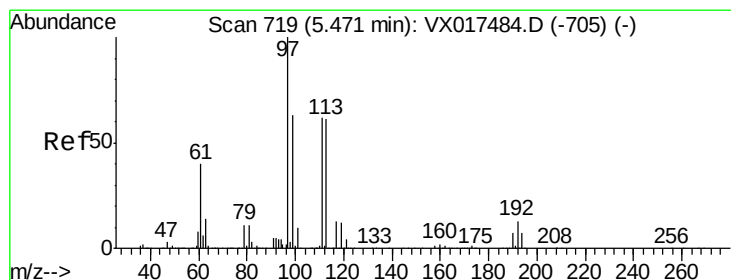
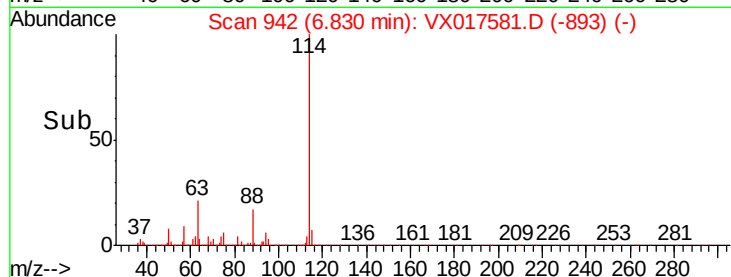
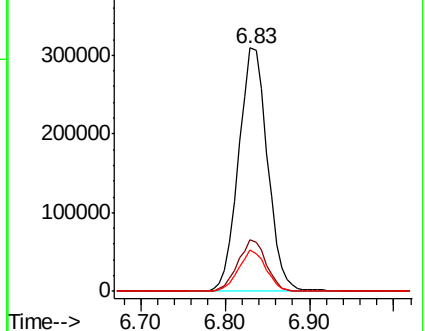
88 17.0 0.0 33.4



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: 53.966 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

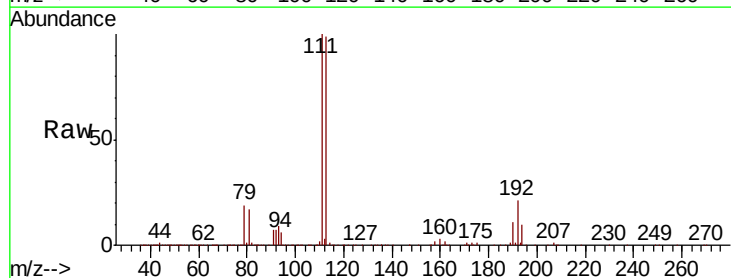
Tgt Ion:113 Resp: 258326

Ion Ratio Lower Upper

113 100

111 102.5 80.7 121.1

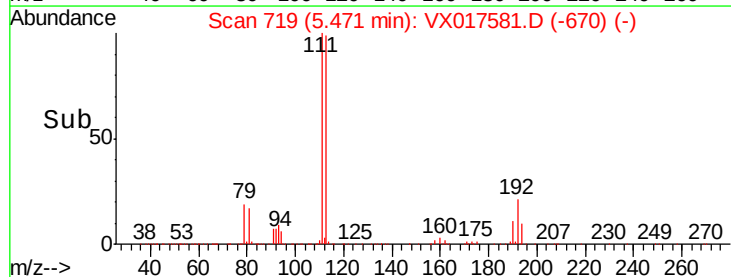
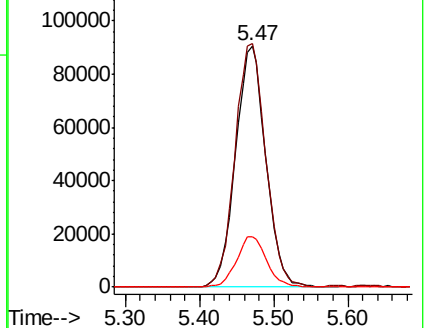
192 20.8 16.9 25.3

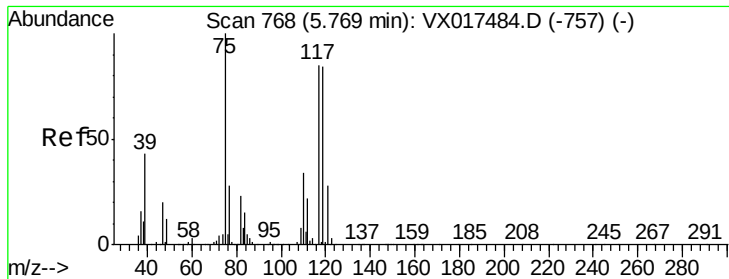


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.792 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

ClientSampleId :

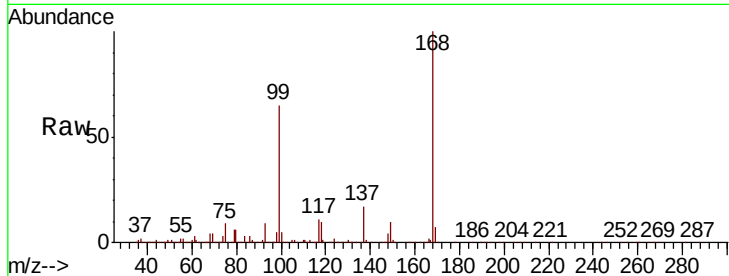
Tot Ion: 75 Resp: 32895

Ion Ratio Lower Upper

75 100

110 8.0 18.1 54.3#

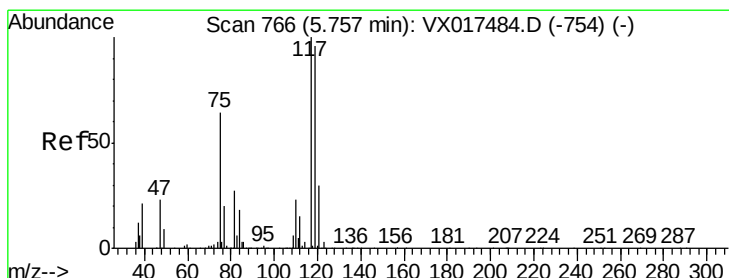
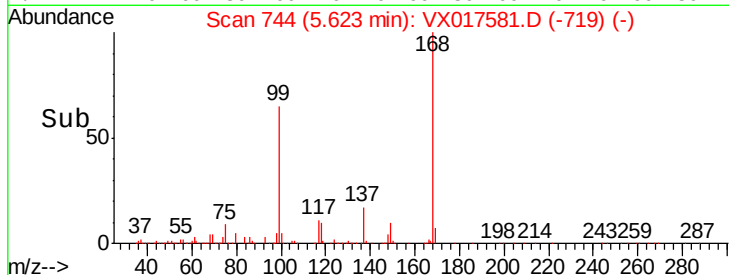
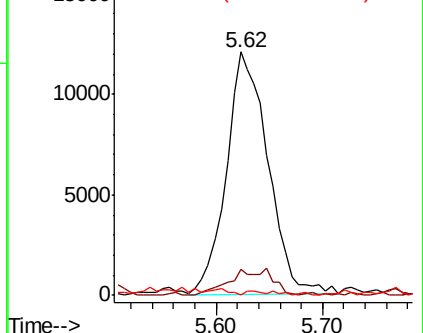
77 0.8 24.6 37.0#



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: 5.430 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

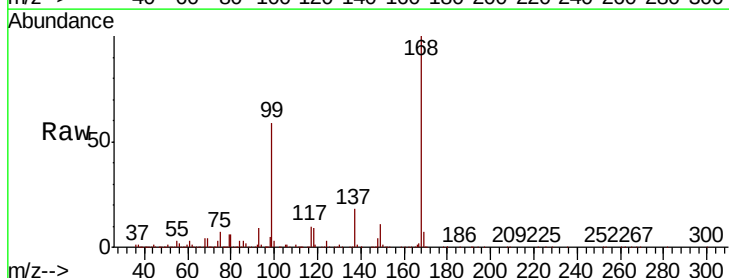
Tgt Ion: 117 Resp: 45262

Ion Ratio Lower Upper

117 100

119 4.8 75.4 113.0#

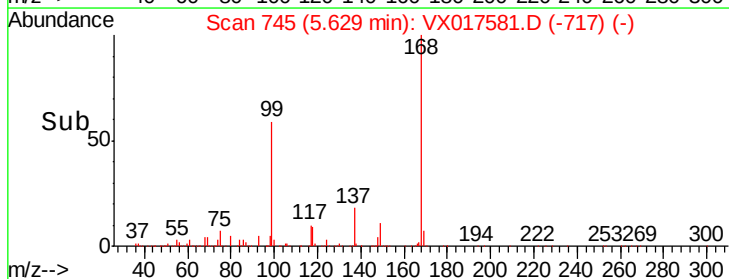
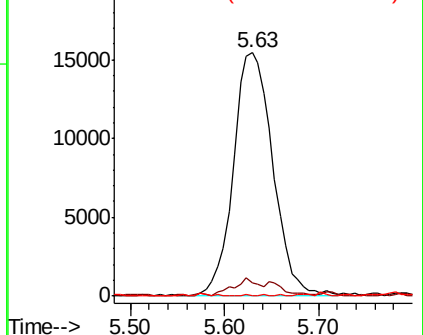
121 0.0 24.3 36.5#

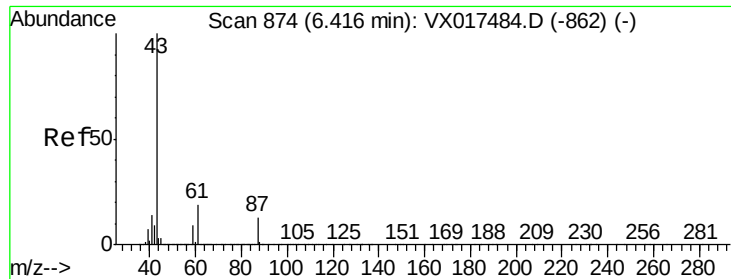


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



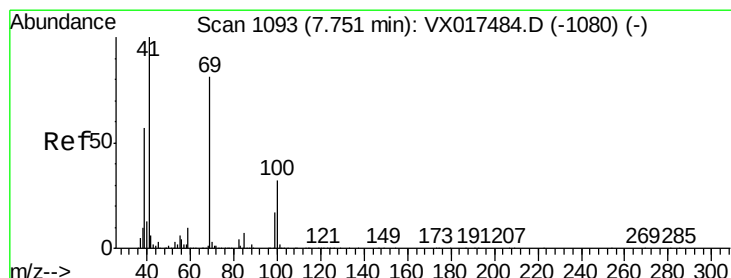
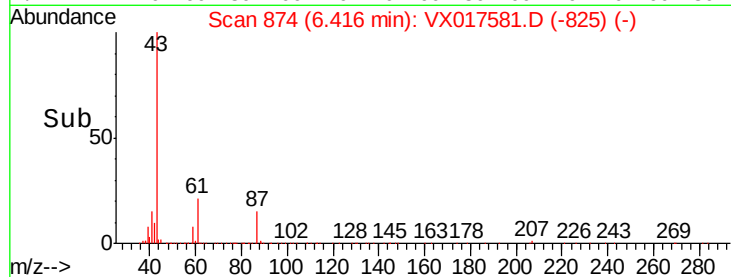
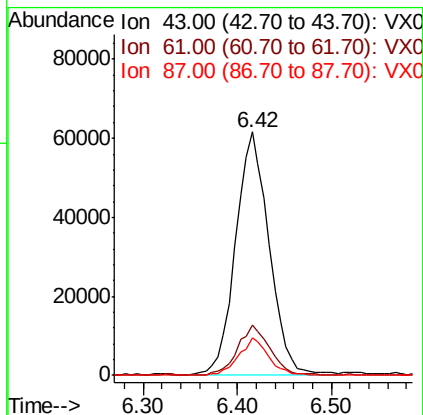
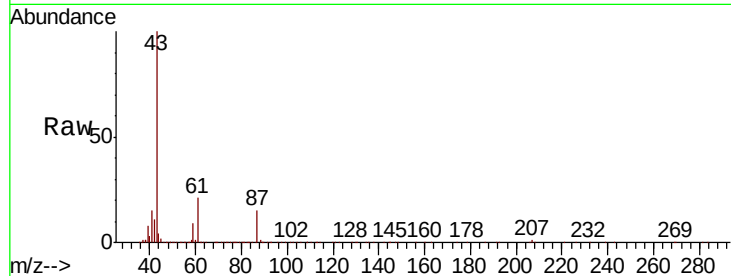


#43

Isopropyl Acetate
 Concen: 12.352 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: VX017581.D
 Acq: 25 Jul 2020 09:10

Instrument :
 MSVOA_X
 ClientSampleId :

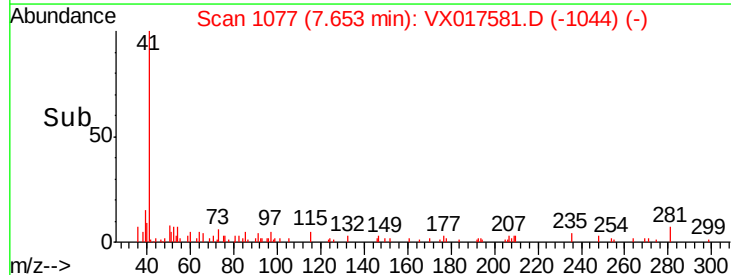
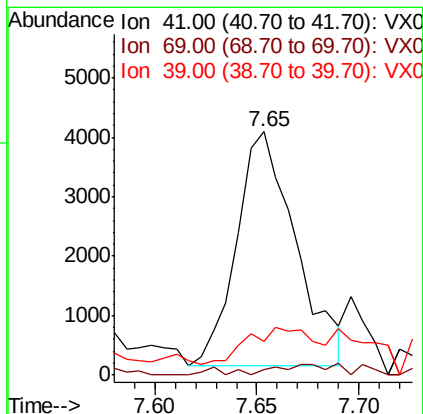
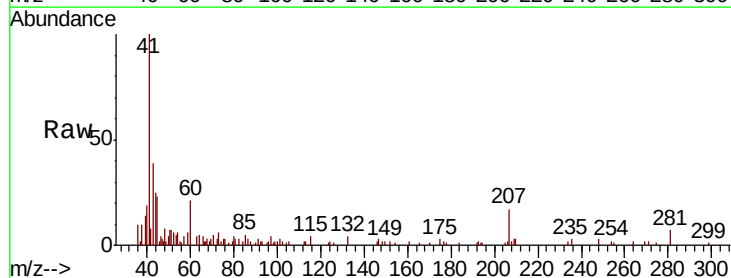
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.5	23.3
87	13.4	10.5	15.7

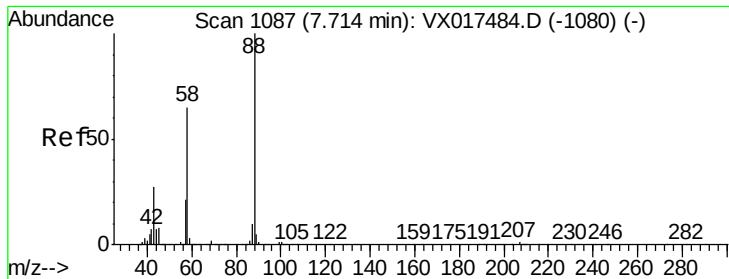


#48

Methyl methacrylate
 Concen: 1.292 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.10 min
 Lab File: VX017581.D
 Acq: 25 Jul 2020 09:10

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	63.1	94.7#
39	0.0	45.1	67.7#





#49

1,4-Dioxane

Concen: 1.231 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

ClientSampled :

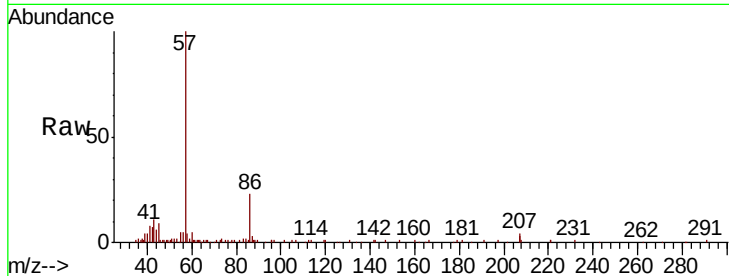
Tot Ion: 88 Resp: 145

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

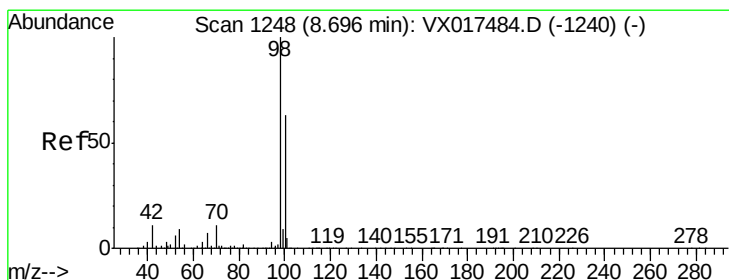
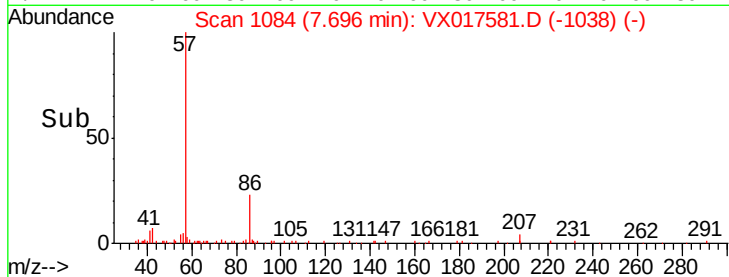
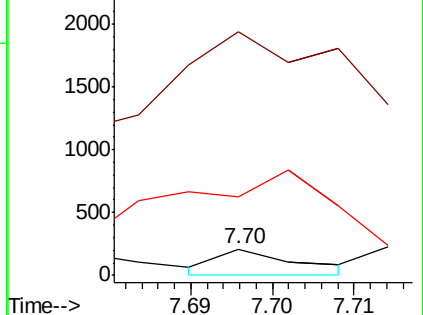
58 1113.8 58.3 87.5#



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: 53.826 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017581.D

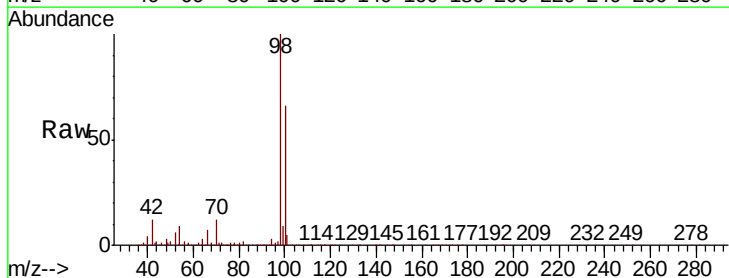
Acq: 25 Jul 2020 09:10

Tgt Ion: 98 Resp: 929475

Ion Ratio Lower Upper

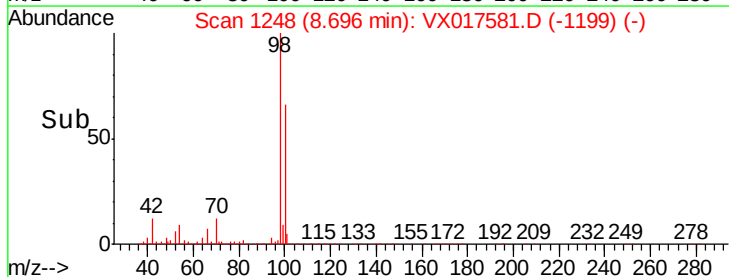
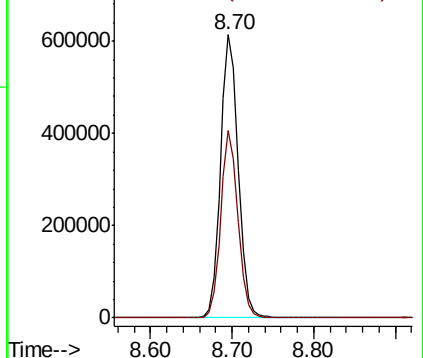
98 100

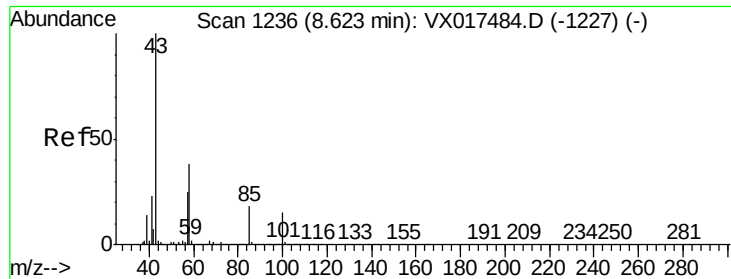
100 64.0 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 18.873 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

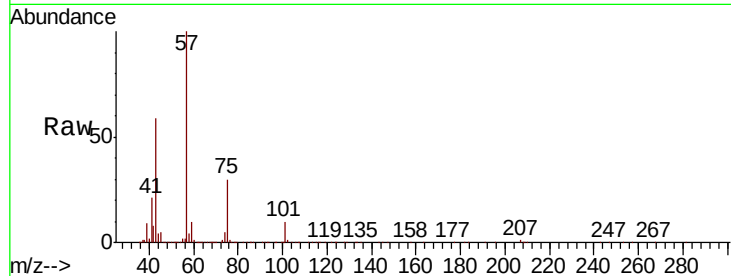
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 139548

Ion Ratio Lower Upper

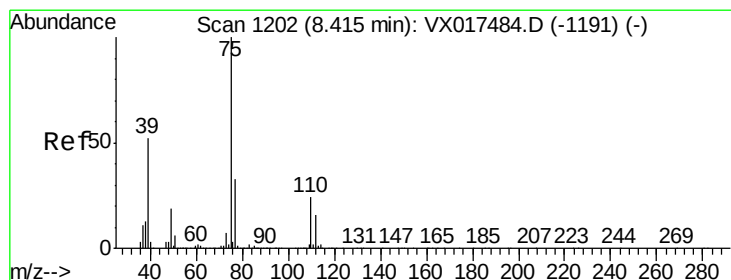
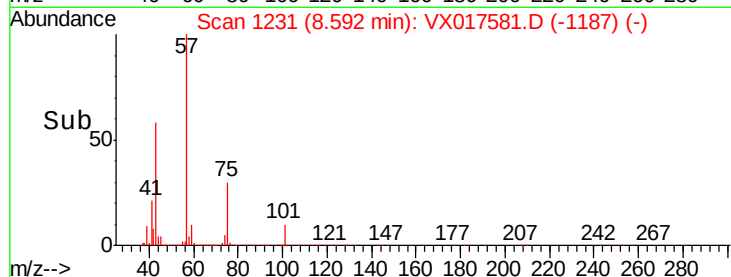
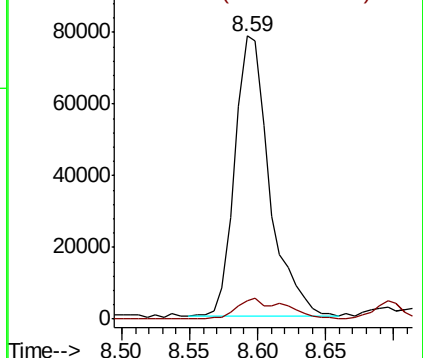
43 100

58 6.6 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 6.734 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

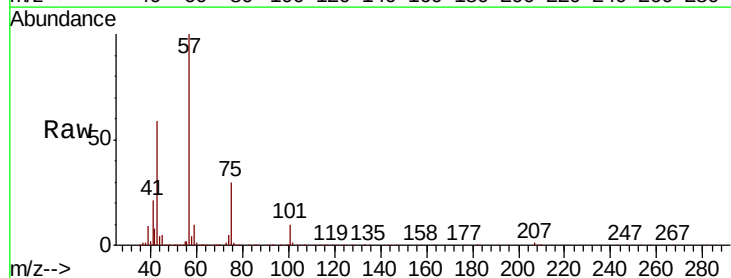
Tgt Ion: 75 Resp: 59648

Ion Ratio Lower Upper

75 100

77 0.6 25.5 38.3#

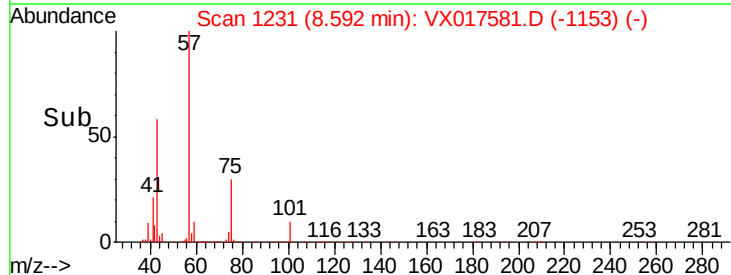
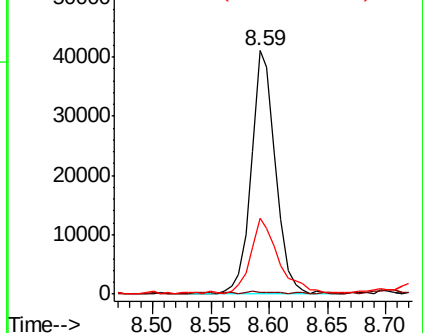
39 30.6 41.8 62.8#

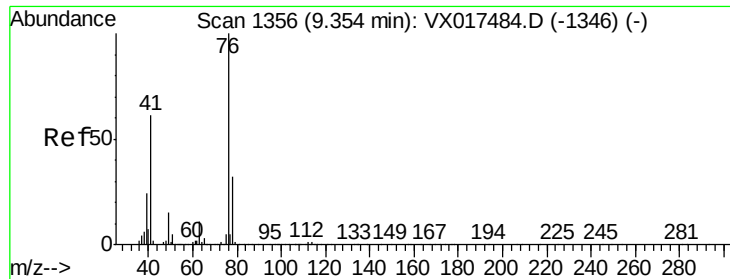


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

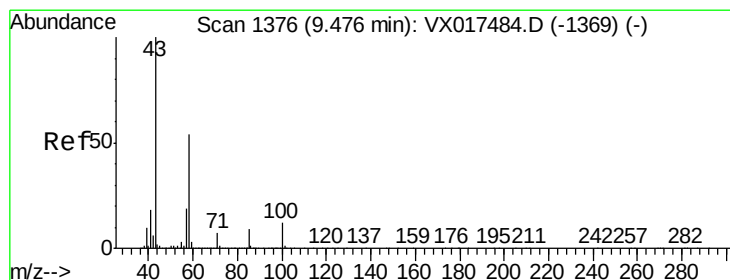
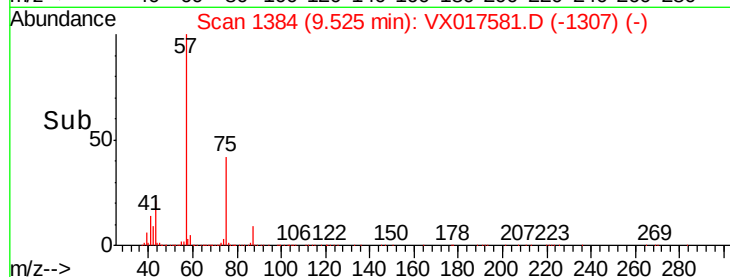
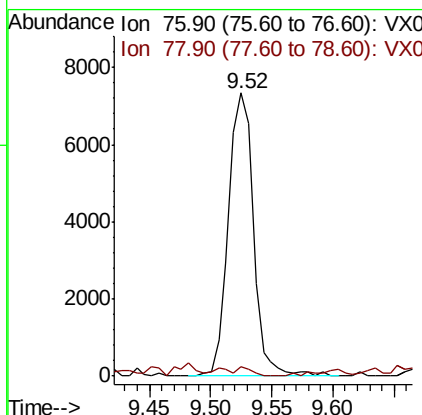
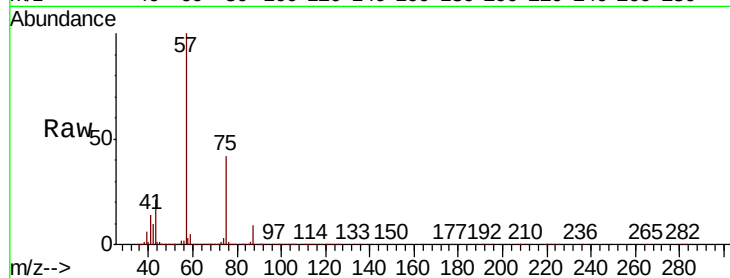




#57
 1,3-Dichloropropane
 Concen: 1.200 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX017581.D
 Acq: 25 Jul 2020 09:10

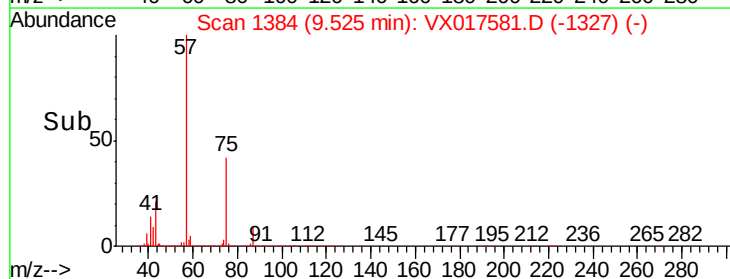
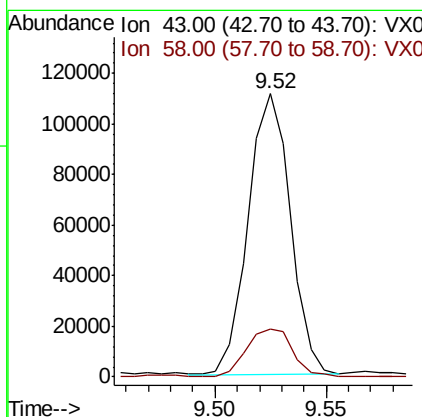
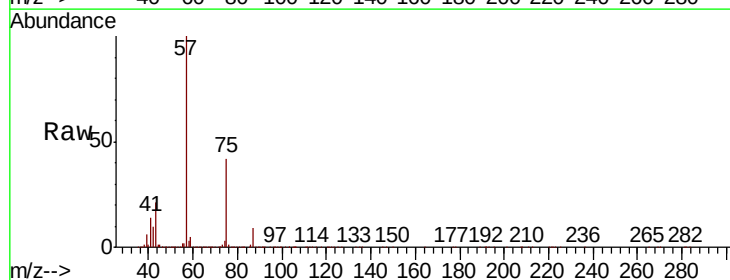
Instrument :
 MSVOA_X
 ClientSampleId :

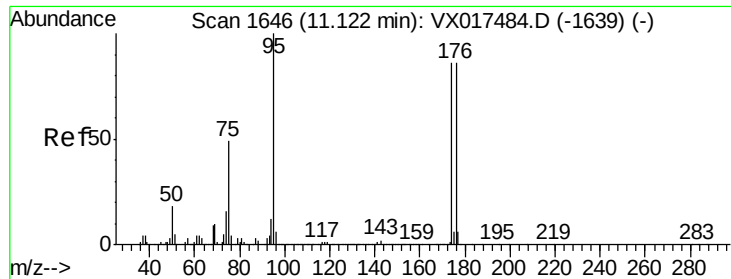
Tot Ion: 76 Resp: 10385
 Ion Ratio Lower Upper
 76 100
 78 1.8 25.8 38.8#



#59
 2-Hexanone
 Concen: 26.317 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX017581.D
 Acq: 25 Jul 2020 09:10

Tgt Ion: 43 Resp: 146501
 Ion Ratio Lower Upper
 43 100
 58 18.9 26.6 79.8#

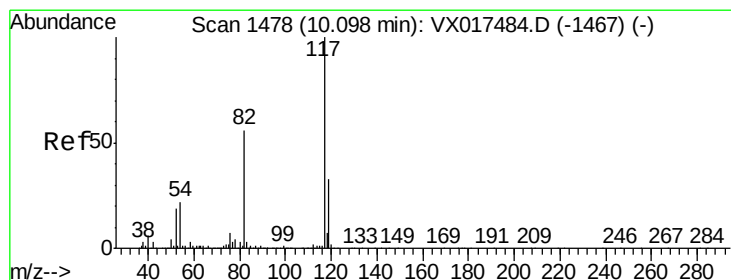
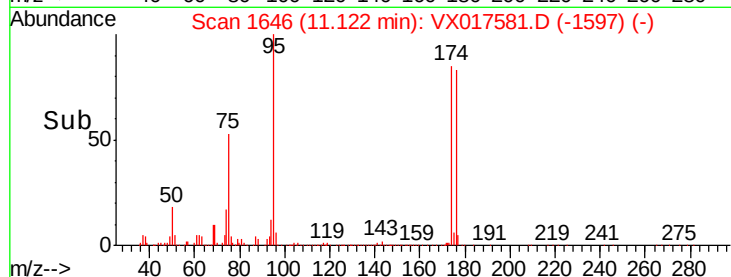
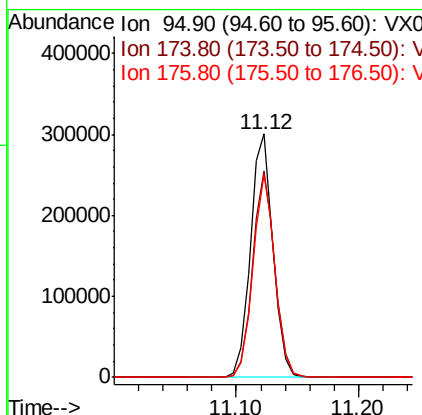
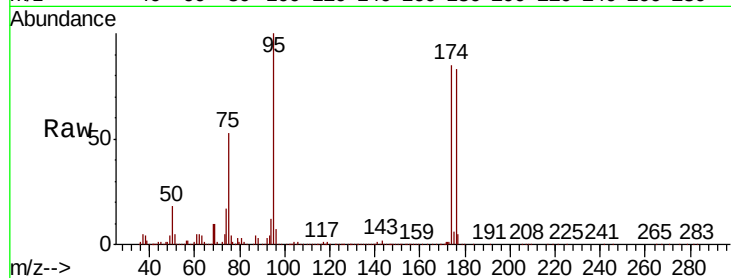




#62
4-Bromofluorobenzene
Concen: 55.875 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

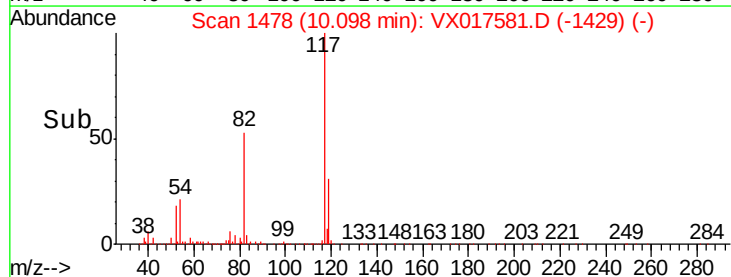
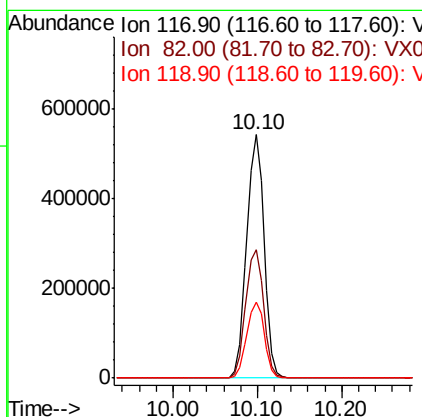
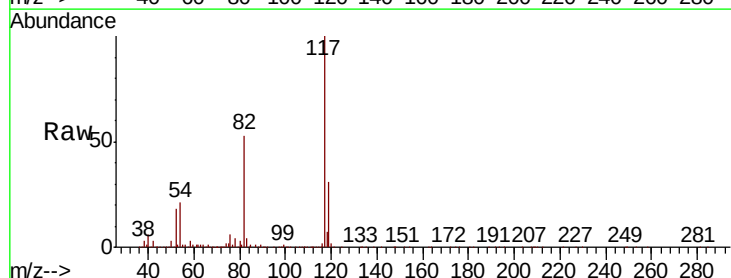
Instrument :
MSVOA_X
ClientSampleId :

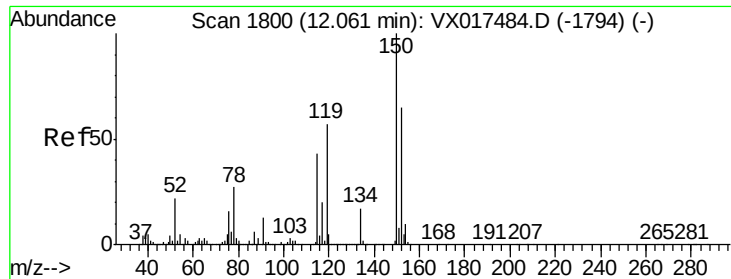
Tot Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	169.0
176	81.5	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017581.D
Acq: 25 Jul 2020 09:10

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.9	44.0	66.0
119	31.0	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: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

ClientSampleId :

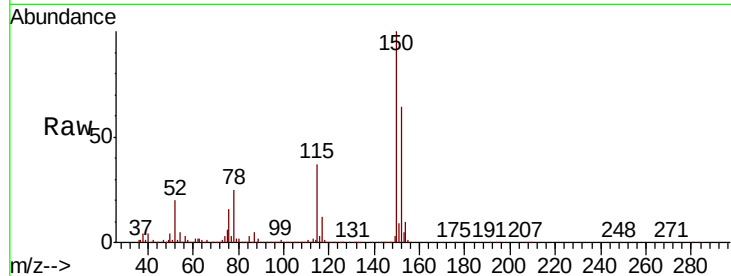
Tot Ion:152 Resp: 396864

Ion Ratio Lower Upper

152 100

115 56.6 65.5 196.6#

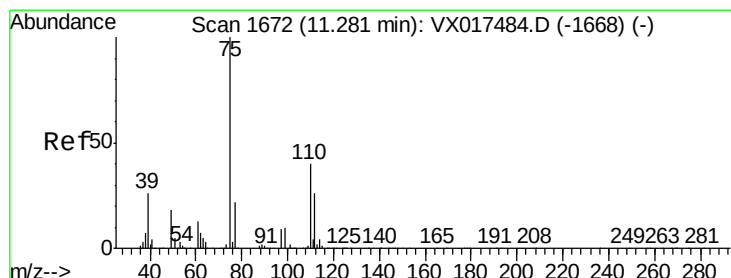
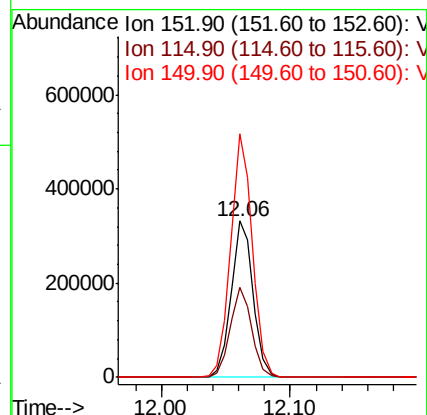
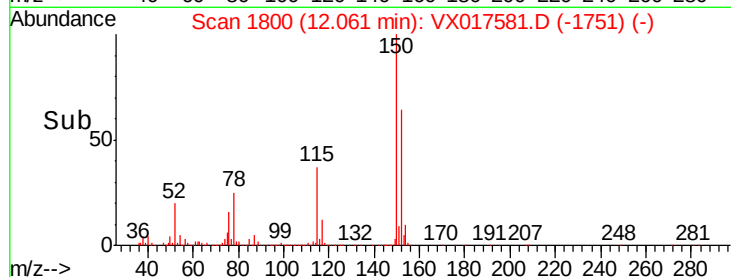
150 154.5 0.0 412.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.506 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017581.D

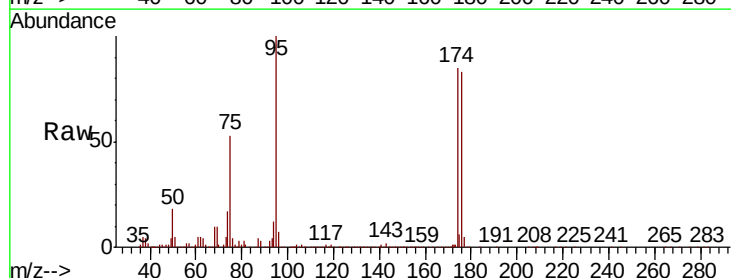
Acq: 25 Jul 2020 09:10

Tgt Ion: 75 Resp: 200059

Ion Ratio Lower Upper

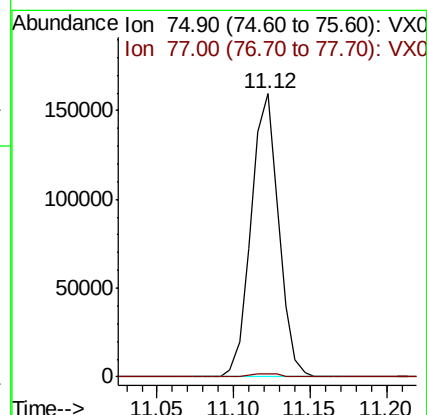
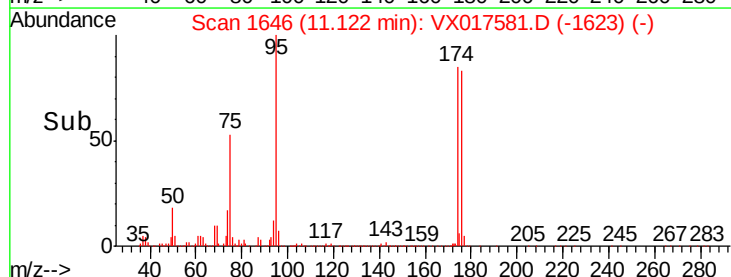
75 100

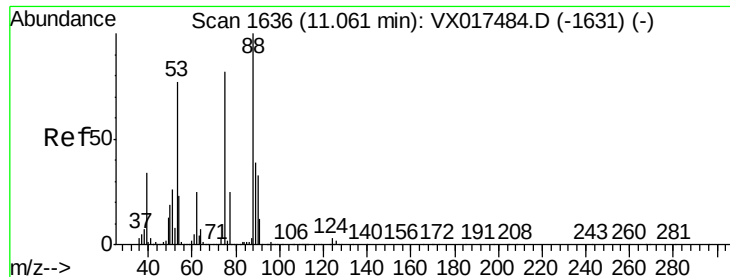
77 1.7 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.750 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

Instrument :

MSVOA_X

ClientSampleId :

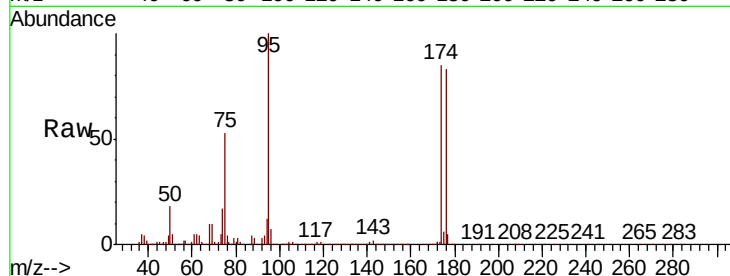
Tot Ion: 75 Resp: 200059

Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

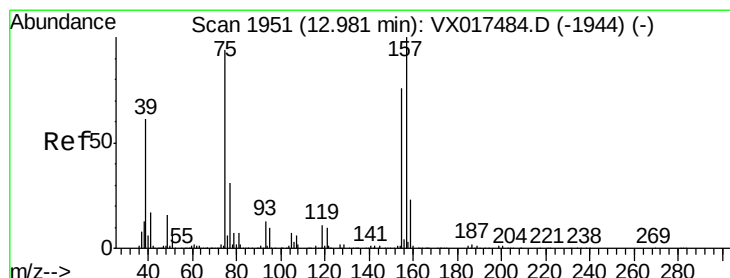
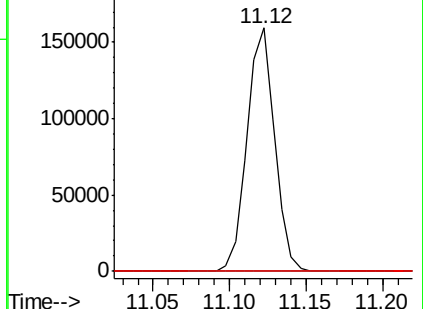
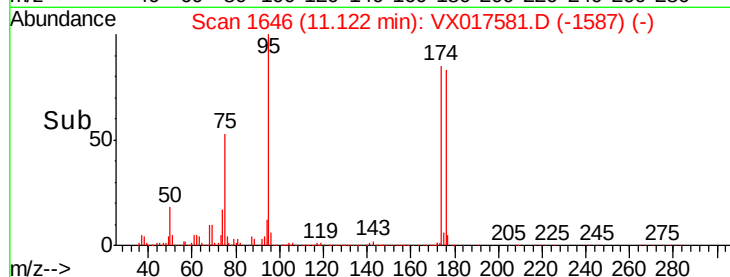
89 0.1 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.775 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX017581.D

Acq: 25 Jul 2020 09:10

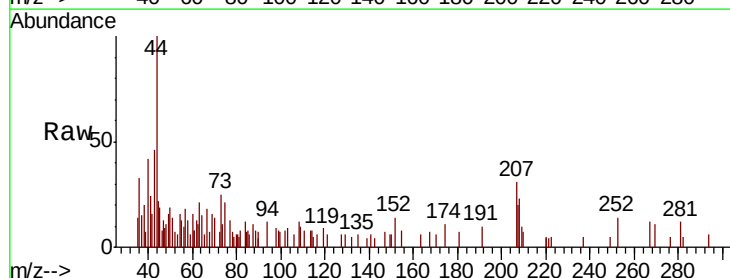
Tgt Ion: 75 Resp: 503

Ion Ratio Lower Upper

75 100

155 7.8 42.3 126.8#

157 0.0 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

