

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017577.D
 Acq On : 25 Jul 2020 07:39
 Operator : JC/SP
 Sample : PB130430ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:07:42 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	5.63	168	486694	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	820293	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	776155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	434038	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	335692	53.70	ug/l	0.00
Spiked Amount			Recovery	=	107.40%	
35) Dibromofluoromethane	5.47	113	281453	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
50) Toluene-d8	8.70	98	906512	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
62) 4-Bromofluorobenzene	11.12	95	401647	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	

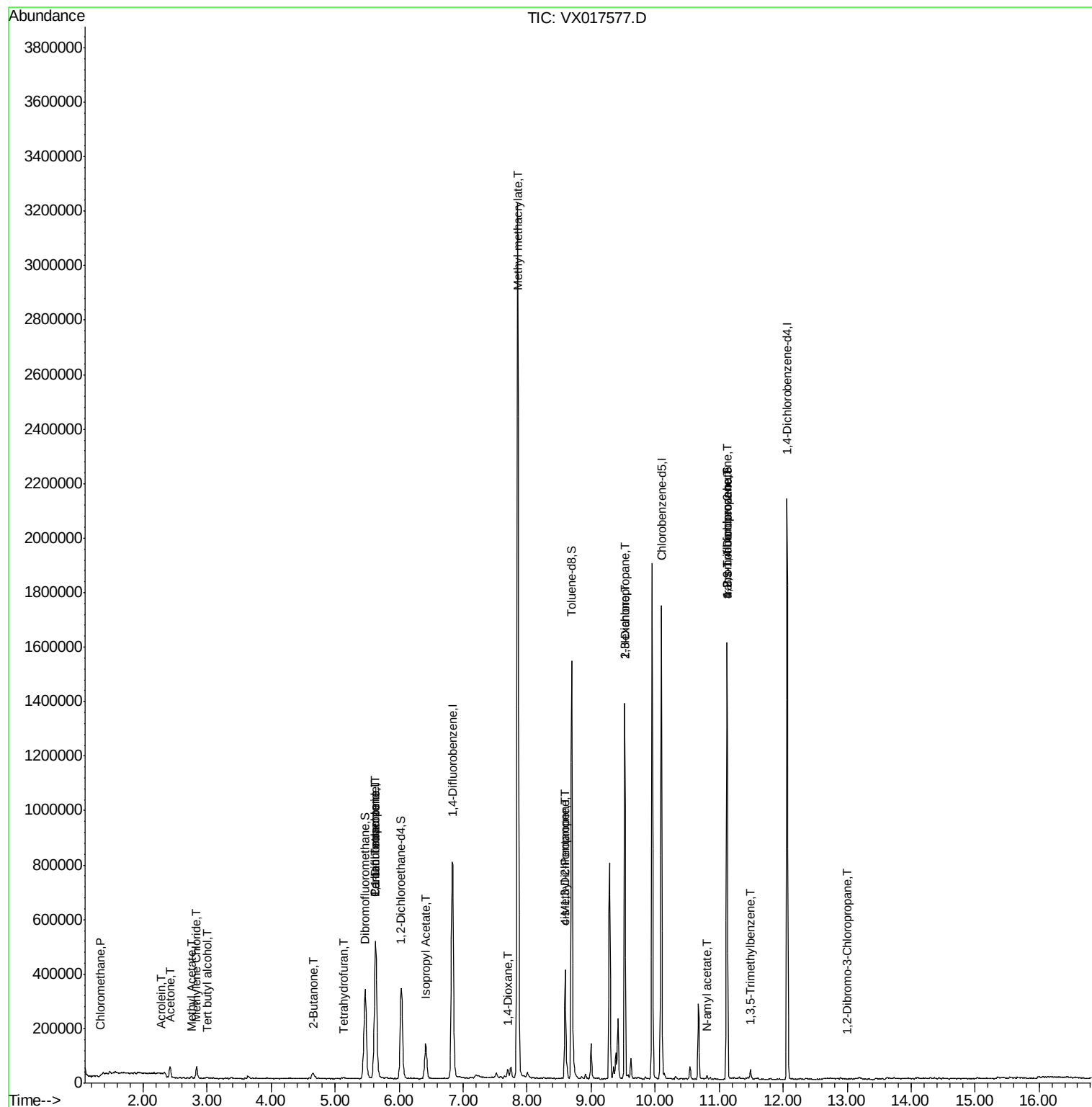
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	665	Below Cal		74
3) Chloromethane	1.32	50	1052	0.540 ug/l #		39
5) Bromomethane	1.61	94	325	Below Cal #		71
6) Chloroethane	1.71	64	326	Below Cal #		44
8) Diethyl Ether	2.31	74	594	Below Cal		64
11) Tert butyl alcohol	3.01	59	3481	2.642 ug/l #		67
13) Acrolein	2.28	56	307	4.449 ug/l #		1
16) Acetone	2.42	43	42600	15.482 ug/l		98
18) Methyl Acetate	2.75	43	7123	1.099 ug/l #		71
20) Methylene Chloride	2.83	84	18689	2.383 ug/l		91
25) 2-Butanone	4.65	43	11017	2.818 ug/l		97
29) Tetrahydrofuran	5.12	42	4036	1.667 ug/l		96
36) 1,1-Dichloropropene	5.62	75	36220	4.604 ug/l #		52
38) Carbon Tetrachloride	5.63	117	47701	4.993 ug/l #		17
43) Isopropyl Acetate	6.42	43	174536	12.289 ug/l		98
48) Methyl methacrylate	7.85	41	276358	39.254 ug/l #		45
49) 1,4-Dioxane	7.71	88	96	0.711 ug/l #		22
51) 4-Methyl-2-Pentanone	8.59	43	151214	17.844 ug/l #		47
54) cis-1,3-Dichloropropene	8.59	75	61912	6.098 ug/l #		58
57) 1,3-Dichloropropane	9.52	76	11592	1.168 ug/l #		51
59) 2-Hexanone	9.52	43	156006	24.452 ug/l #		51
74) N-amyl acetate	10.81	43	7008	0.530 ug/l #		53
76) 1,2,3-Trichloropropane	11.12	75	205342	22.999 ug/l #		34
80) 1,3,5-Trimethylbenzene	11.49	105	15459	0.608 ug/l		94
81) trans-1,4-Dichloro-2-buten	11.12	75	205342	57.952 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	249	2.666 ug/l #		32

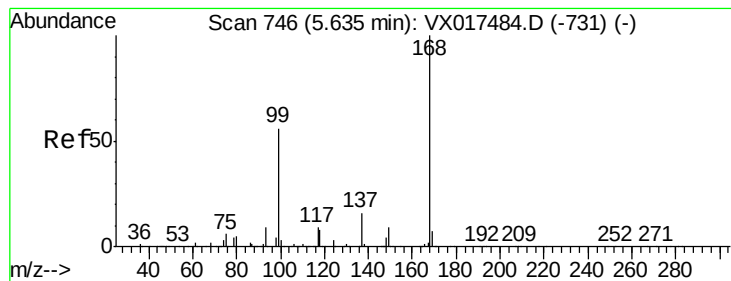
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

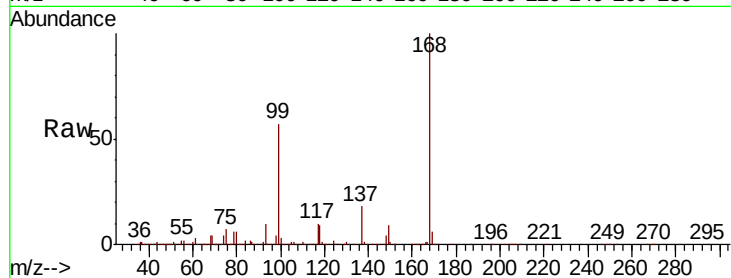
ClientSampleId :

Tot Ion:168 Resp: 486694

Ion Ratio Lower Upper

168 100

99 57.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

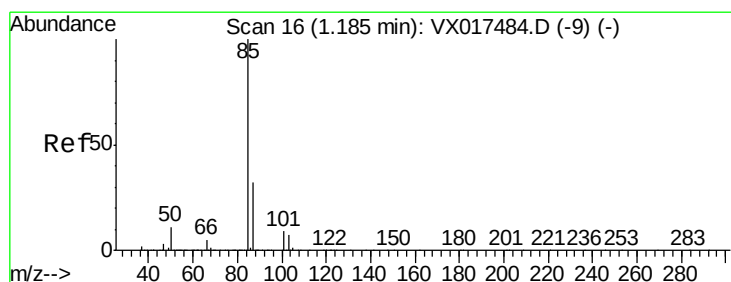
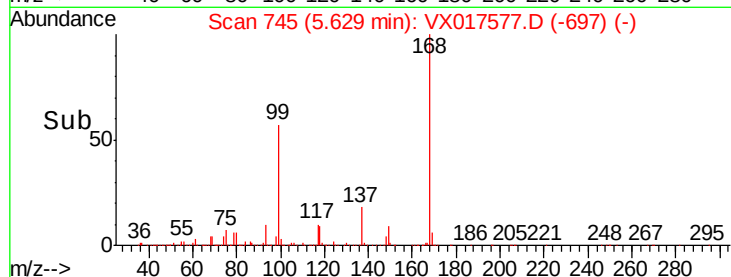
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 18

Delta R.T. 0.01 min

Lab File: VX017577.D

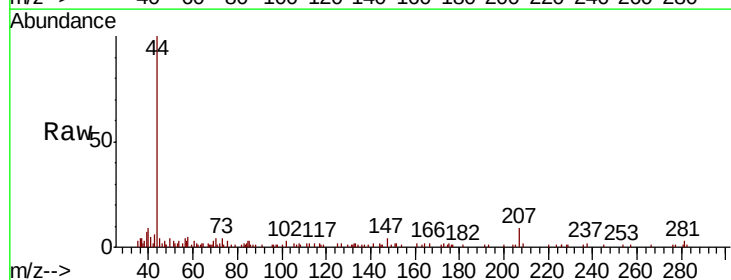
Acq: 25 Jul 2020 07:39

Tgt Ion: 85 Resp: 665

Ion Ratio Lower Upper

85 100

87 17.8 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

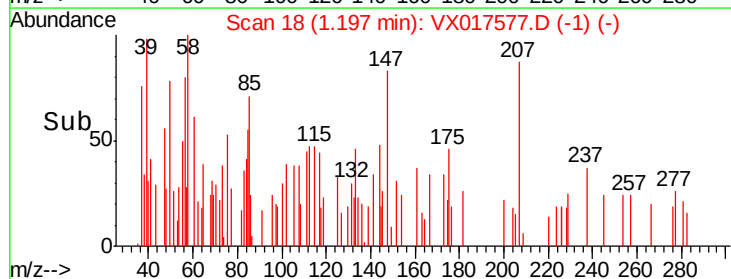
200

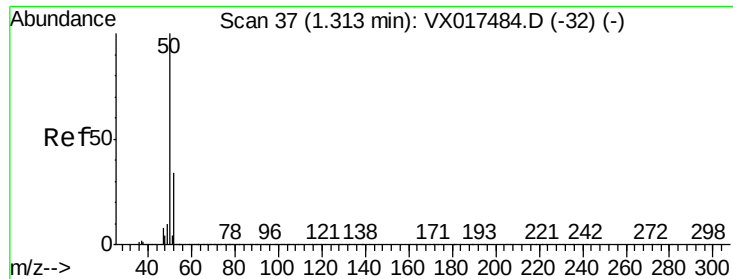
100

0

Time-->

1.15 1.20





#3

Chloromethane

Concen: 0.540 ug/l

RT: 1.32 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

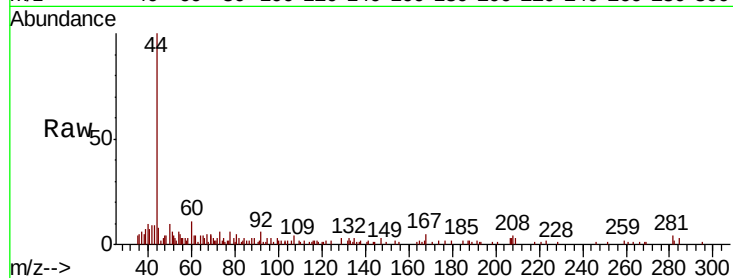
ClientSampled :

Tot Ion: 50 Resp: 1052

Ion Ratio Lower Upper

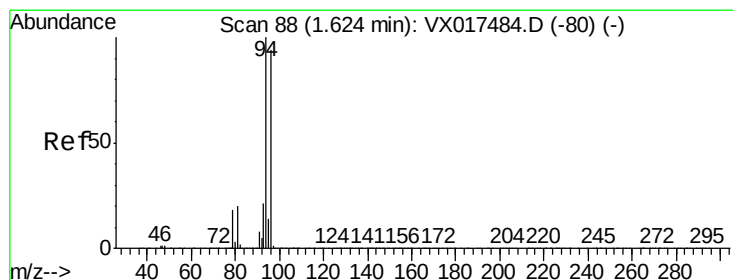
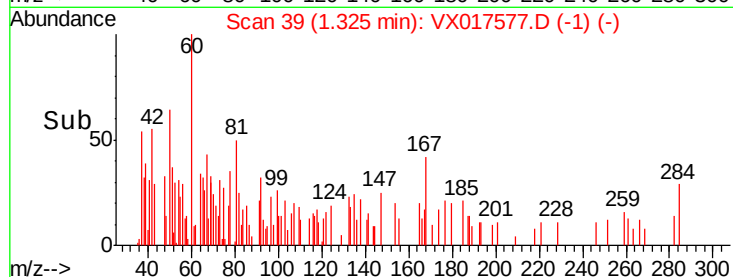
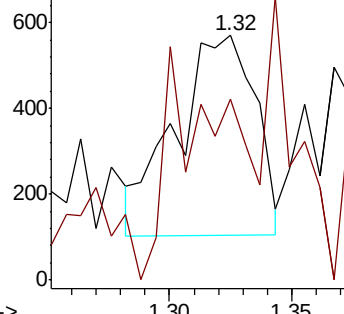
50 100

52 66.5 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 86

Delta R.T. -0.01 min

Lab File: VX017577.D

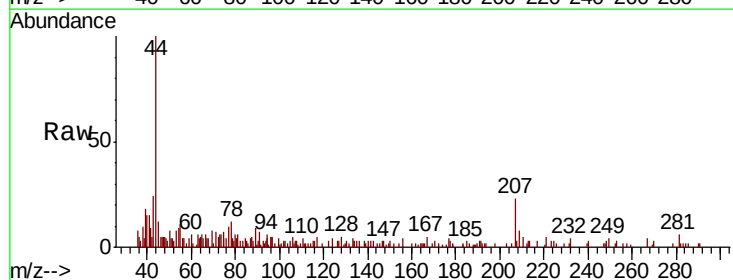
Acq: 25 Jul 2020 07:39

Tgt Ion: 94 Resp: 325

Ion Ratio Lower Upper

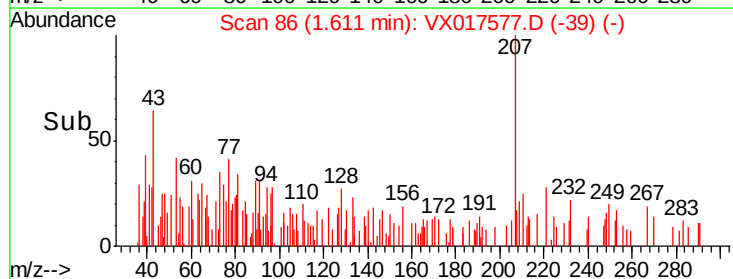
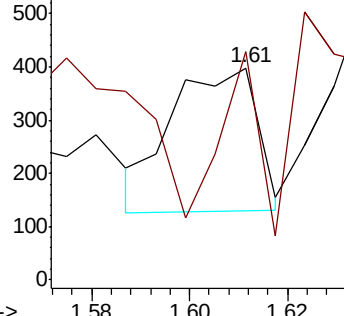
94 100

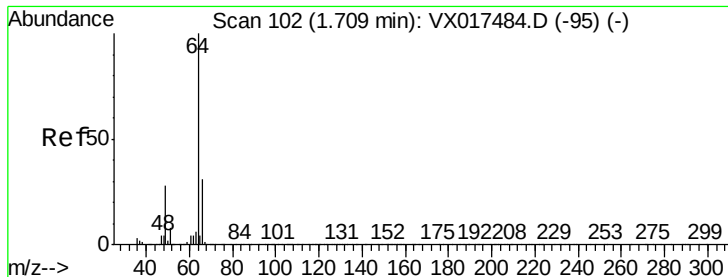
96 64.5 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 102

Delta R.T. -0.00 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

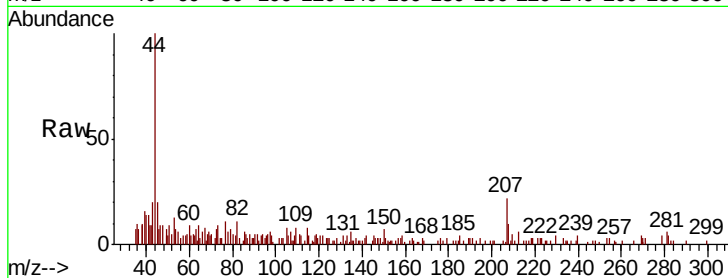
ClientSampled :

Tot Ion: 64 Resp: 326

Ion Ratio Lower Upper

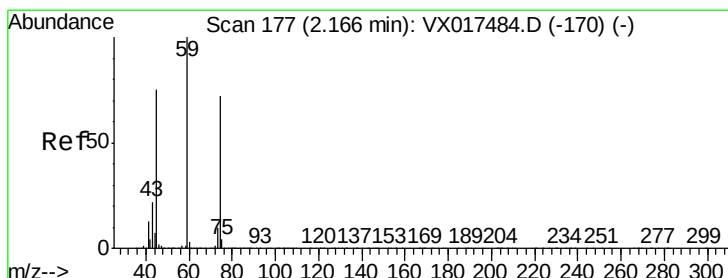
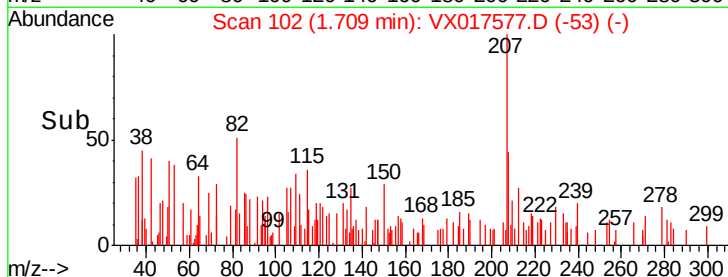
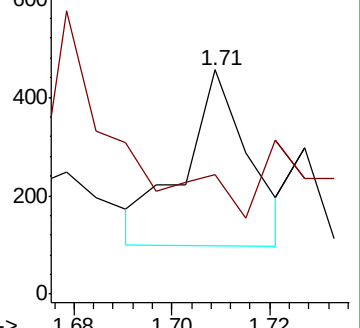
64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.31 min Scan# 200

Delta R.T. 0.14 min

Lab File: VX017577.D

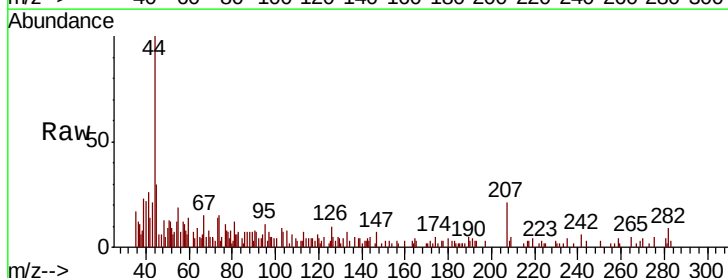
Acq: 25 Jul 2020 07:39

Tgt Ion: 74 Resp: 594

Ion Ratio Lower Upper

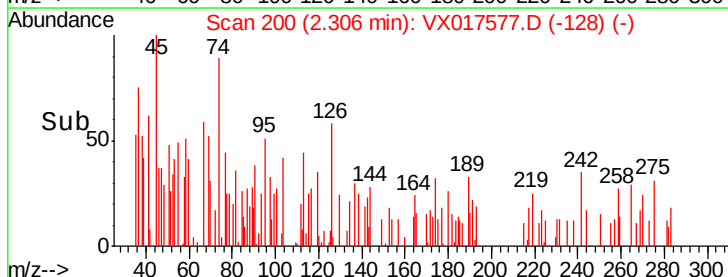
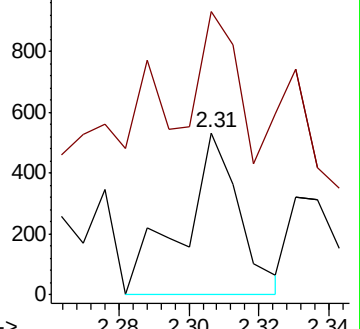
74 100

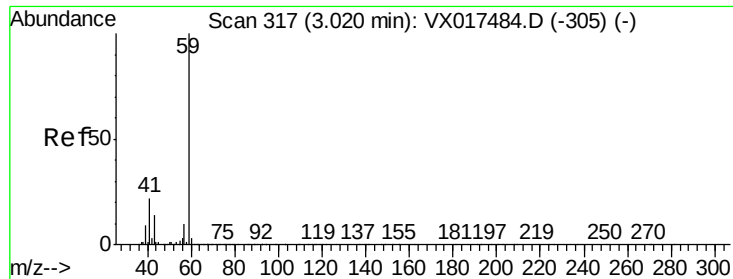
45 65.0 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

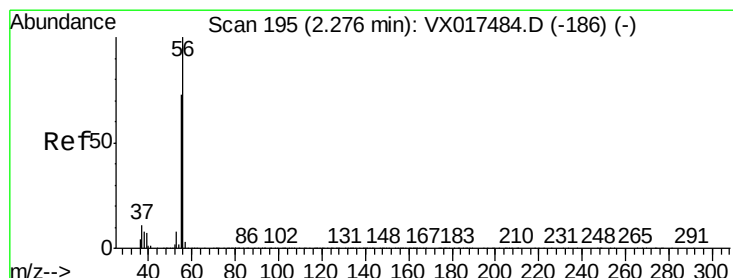
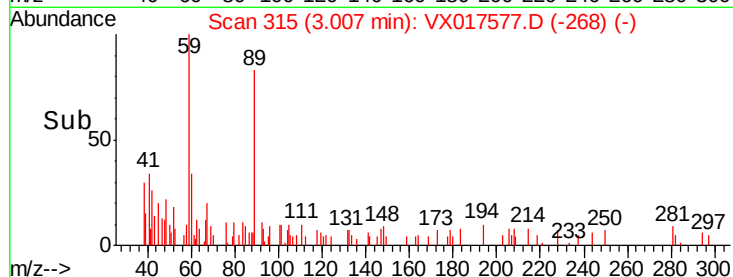
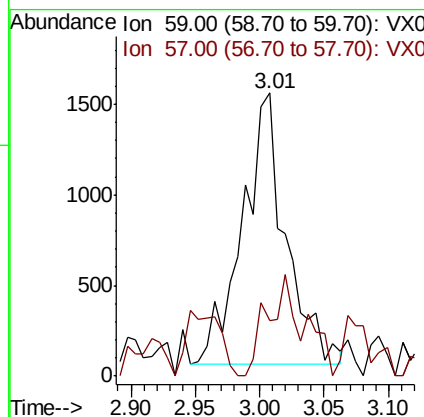
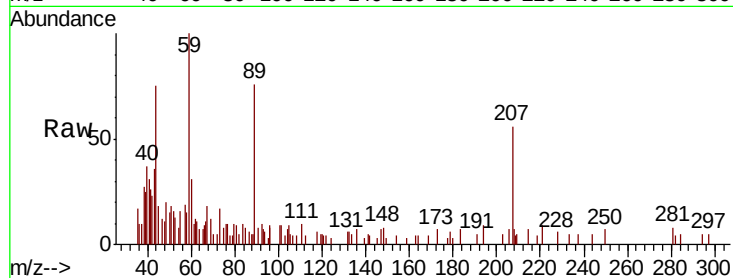




#11
Tert butyl alcohol
Concen: 2.642 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

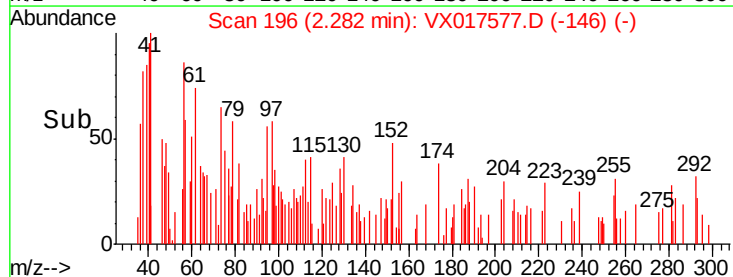
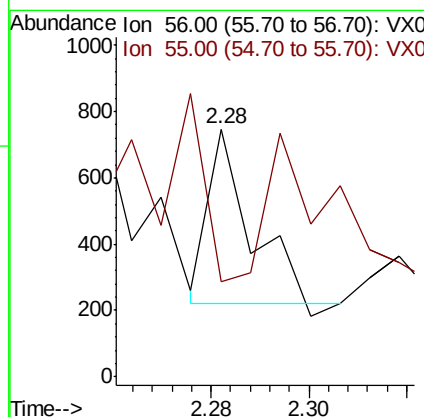
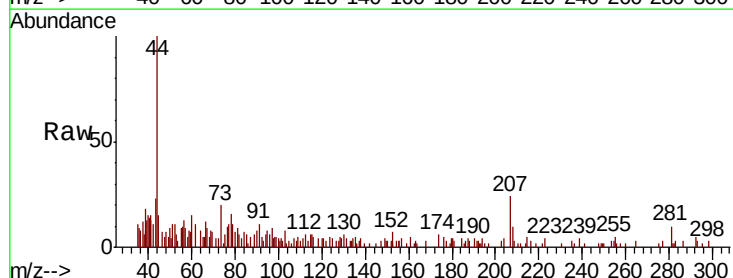
Instrument :
MSVOA_X
ClientSampleId :

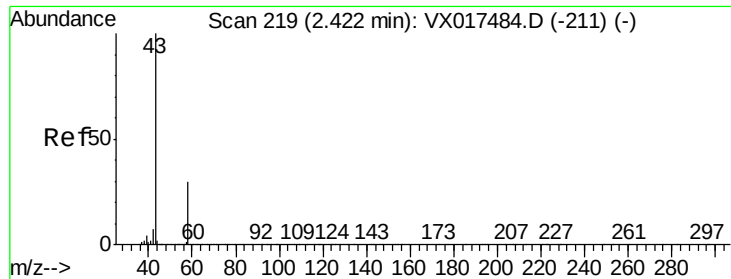
Tot Ion: 59 Resp: 3481
Ion Ratio Lower Upper
59 100
57 23.2 8.6 12.8#



#13
Acrolein
Concen: 4.449 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

Tgt Ion: 56 Resp: 307
Ion Ratio Lower Upper
56 100
55 330.0 57.4 86.2#

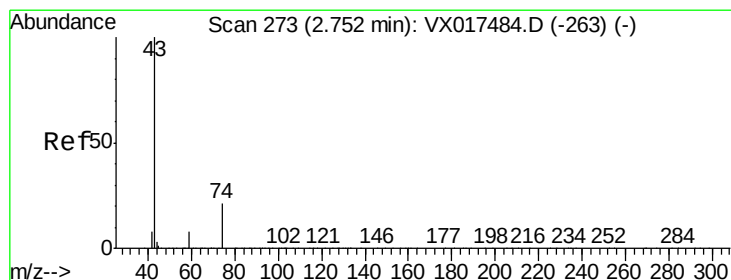
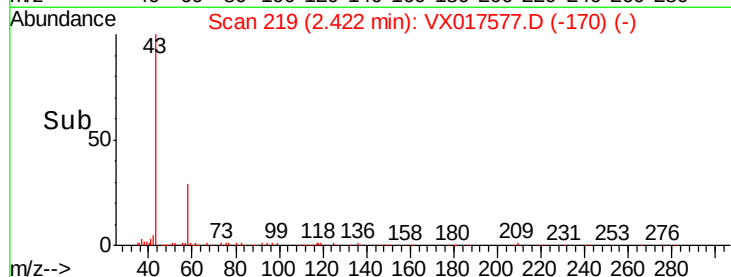
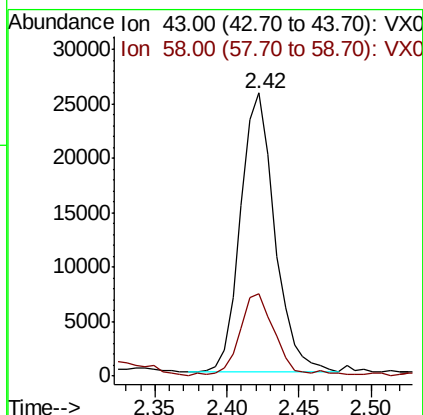
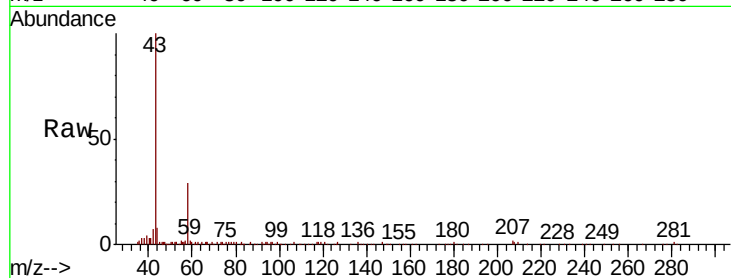




#16
Acetone
Concen: 15.482 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

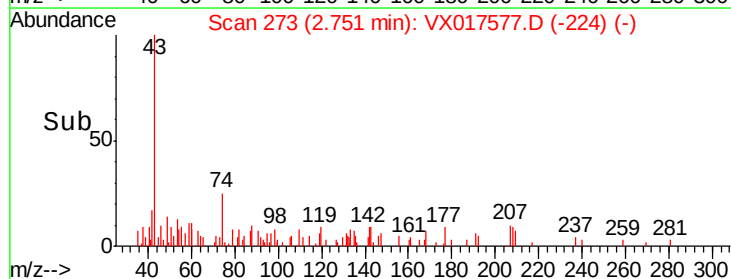
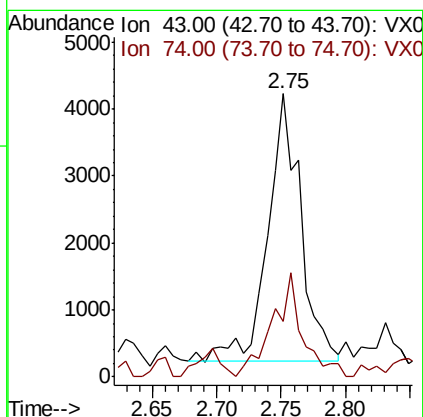
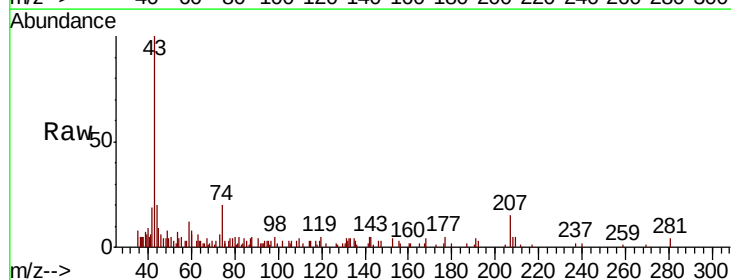
Instrument :
MSVOA_X
ClientSampleId :

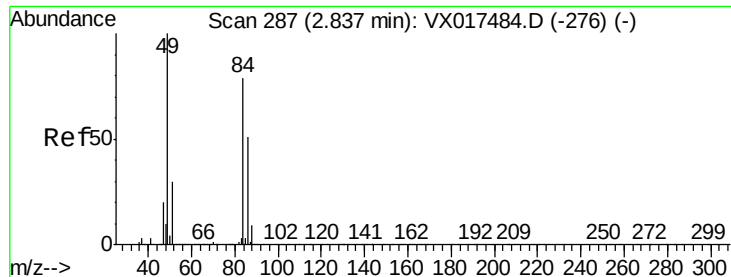
Tot Ion: 43 Resp: 42600
Ion Ratio Lower Upper
43 100
58 29.0 24.2 36.4



#18
Methyl Acetate
Concen: 1.099 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

Tgt Ion: 43 Resp: 7123
Ion Ratio Lower Upper
43 100
74 35.5 17.5 26.3#

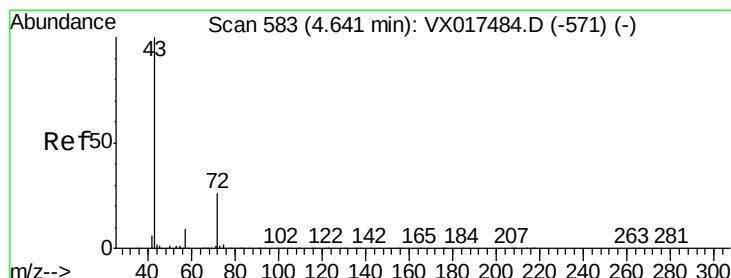
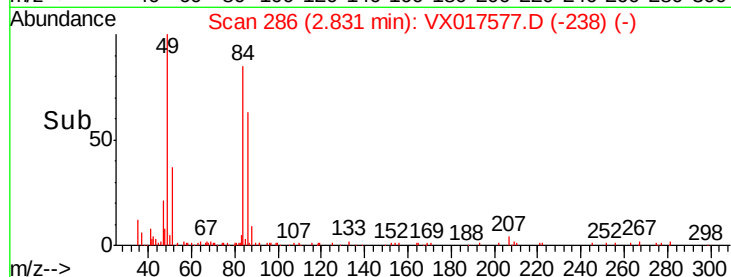
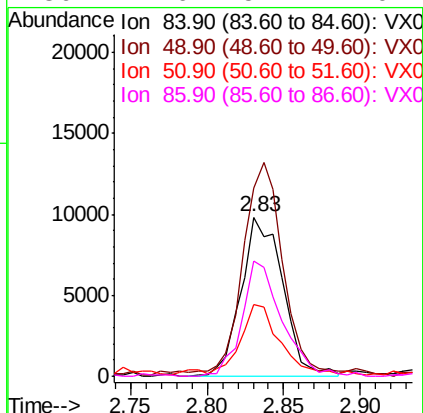
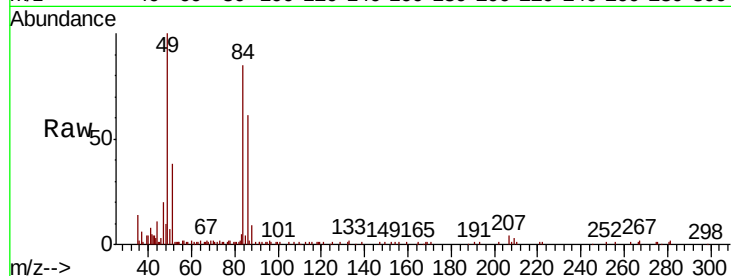




#20
Methylene Chloride
Concen: 2.383 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

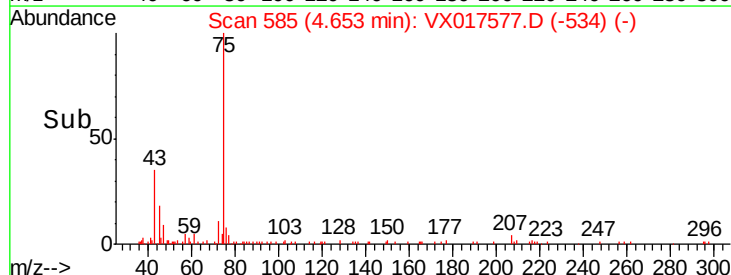
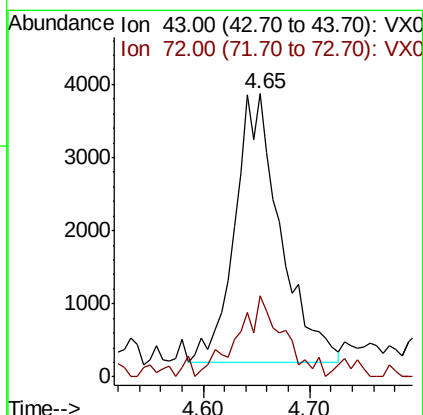
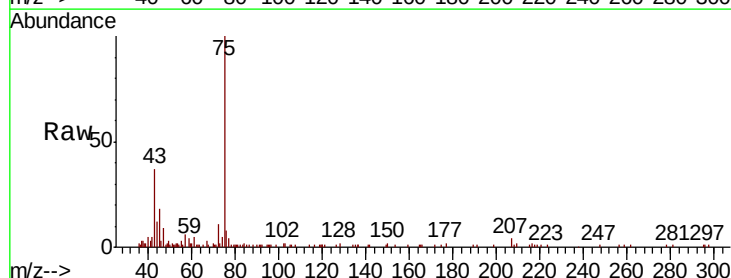
Instrument :
MSVOA_X
ClientSampleId :

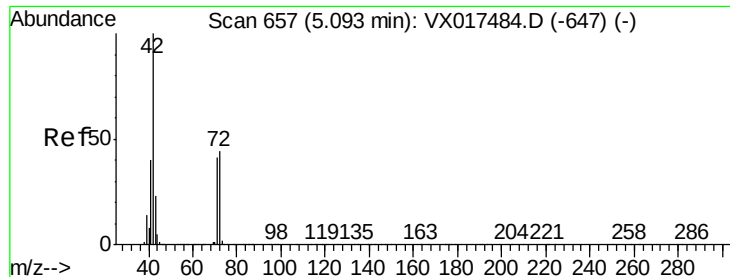
Tot Ion:	84	Resp:	18689
Ion	Ratio	Lower	Upper
84	100		
49	115.5	100.3	150.5
51	42.1	30.5	45.7
86	71.6	51.1	76.7



#25
2-Butanone
Concen: 2.818 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

Tgt Ion:	43	Resp:	11017
Ion	Ratio	Lower	Upper
43	100		
72	25.3	19.0	28.4





#29

Tetrahydrofuran

Concen: 1.667 ug/l

RT: 5.12 min Scan# 662

Delta R.T. 0.03 min

Lab File: VX017577.D

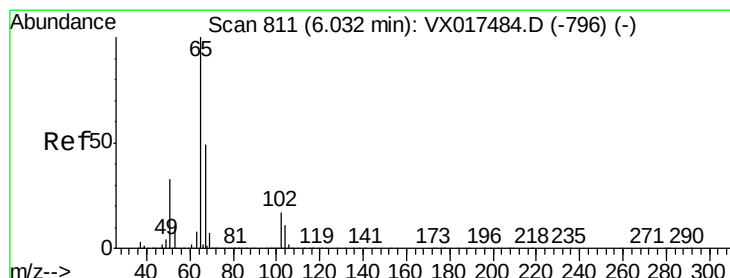
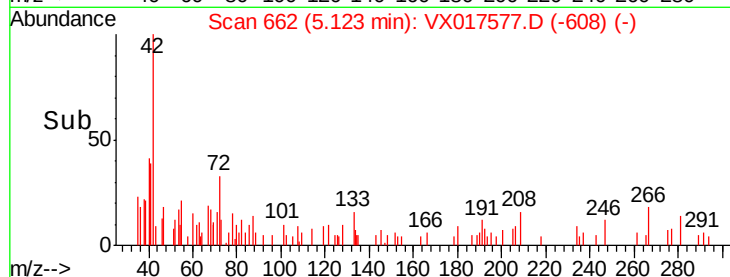
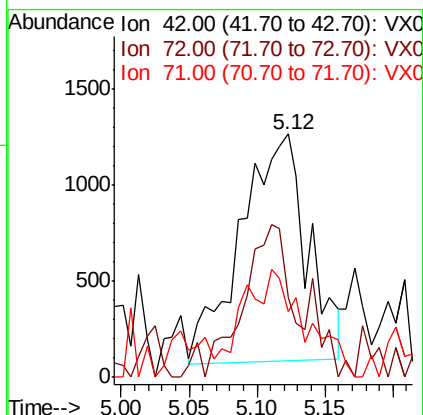
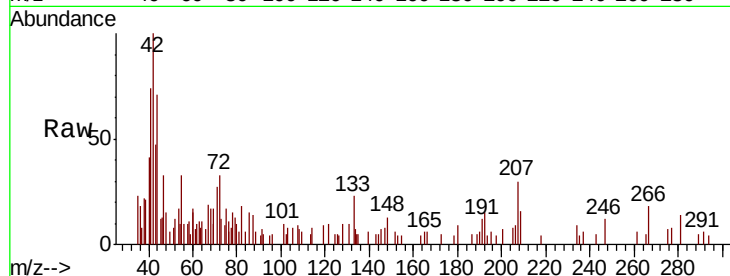
Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	42	Resp:	4036
Ion	Ratio	Lower	Upper
42	100		
72	46.8	35.5	53.3
71	44.2	33.0	49.4



#33

1,2-Dichloroethane-d4

Concen: 53.695 ug/l

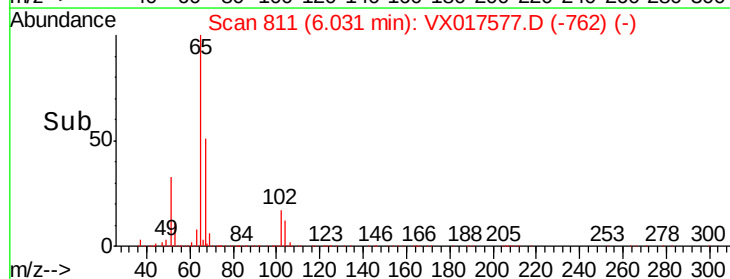
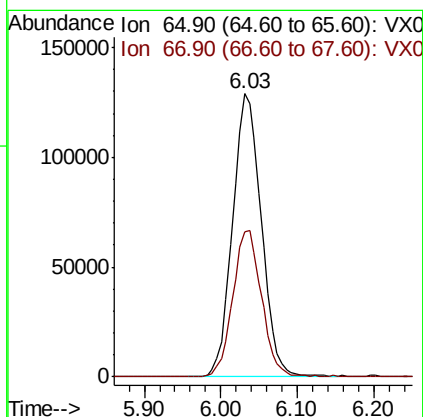
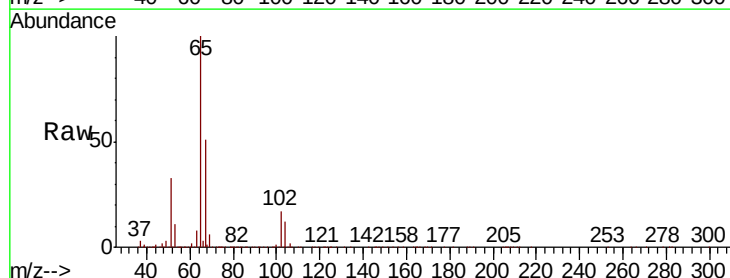
RT: 6.03 min Scan# 811

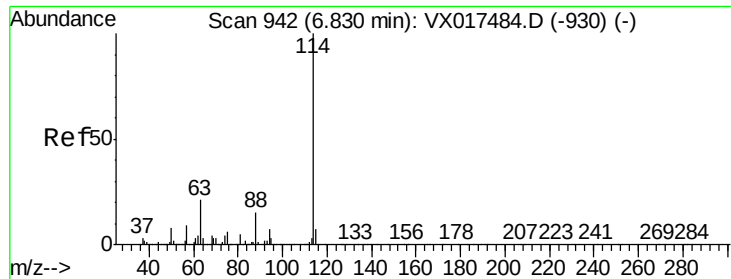
Delta R.T. -0.00 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Tgt Ion:	65	Resp:	335692
Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

ClientSampleId :

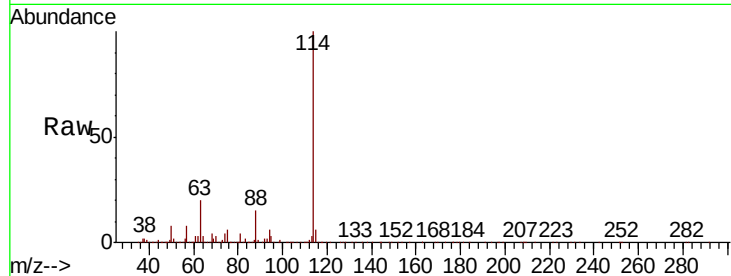
Tot Ion:114 Resp: 820293

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.6

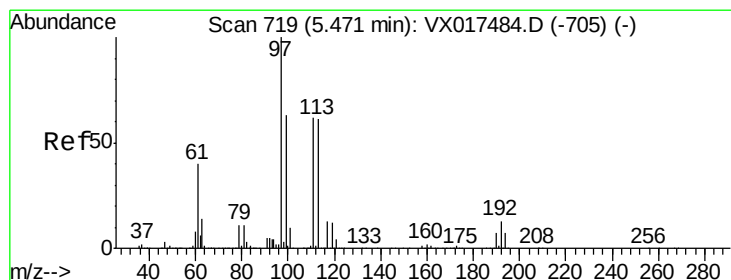
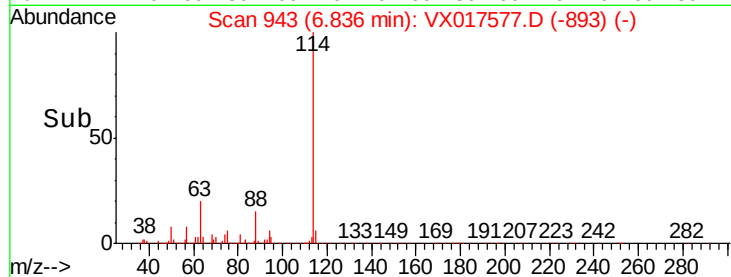
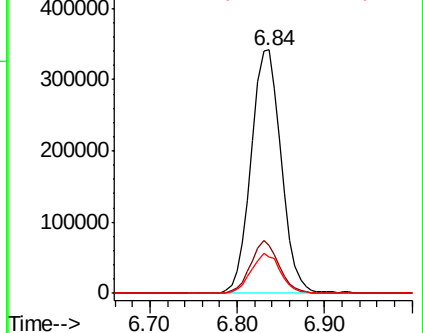
88 14.9 0.0 33.4



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: 51.302 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

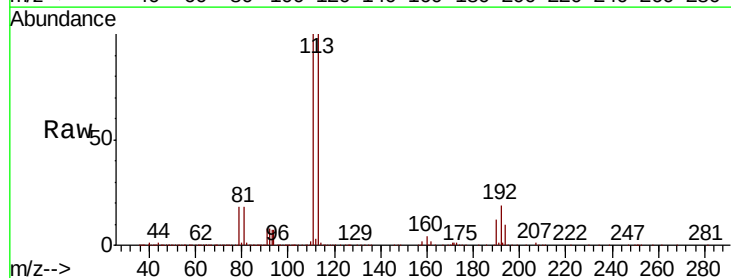
Tgt Ion:113 Resp: 281453

Ion Ratio Lower Upper

113 100

111 101.1 80.7 121.1

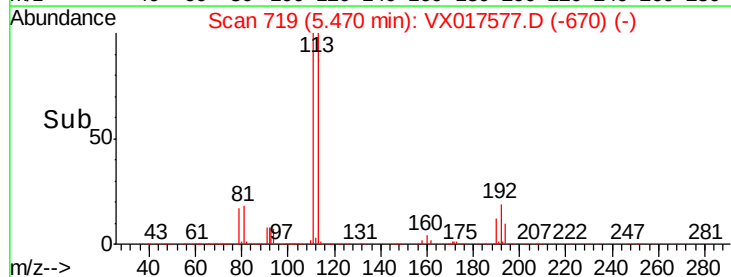
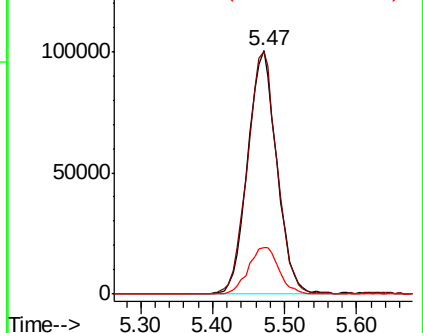
192 20.3 16.9 25.3

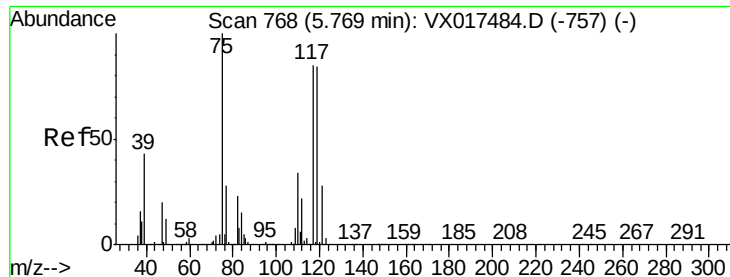


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.604 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

ClientSampleId :

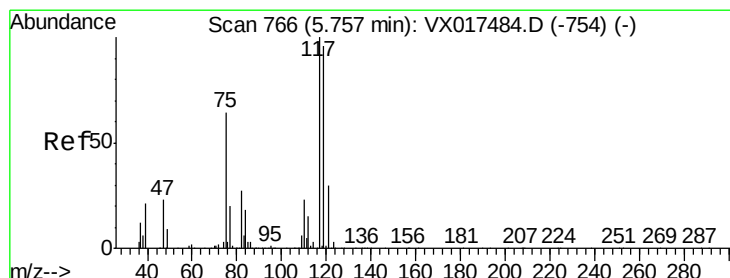
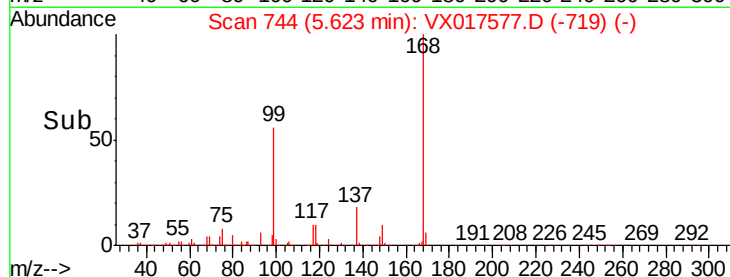
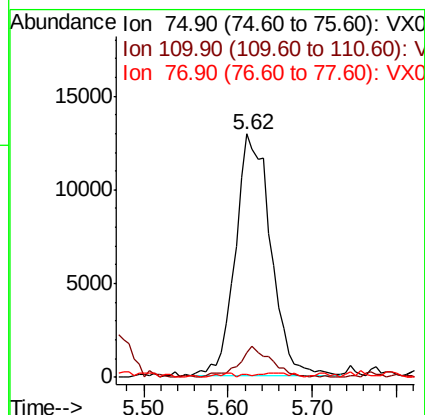
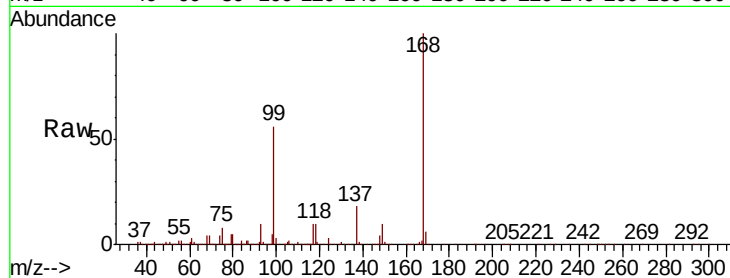
Tot Ion: 75 Resp: 36220

Ion Ratio Lower Upper

75 100

110 12.0 18.1 54.3#

77 0.5 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 4.993 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

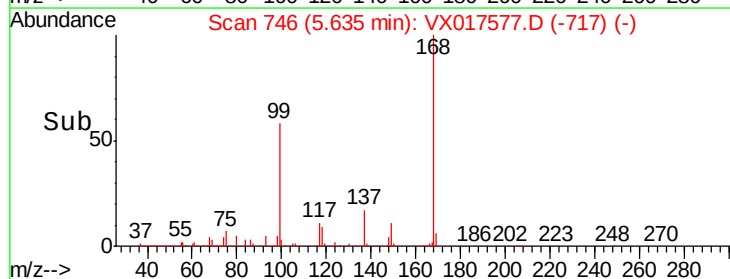
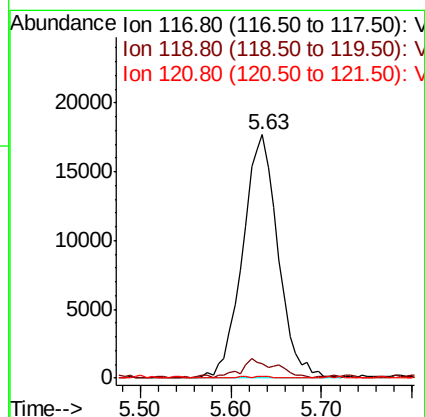
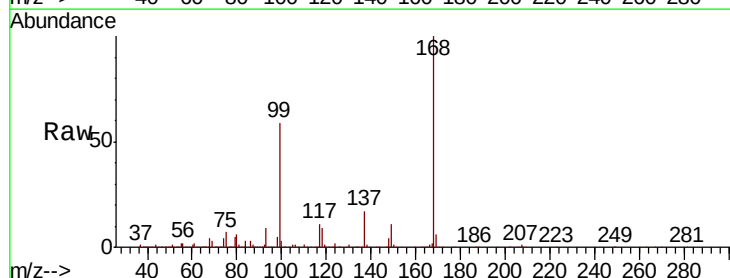
Tgt Ion:117 Resp: 47701

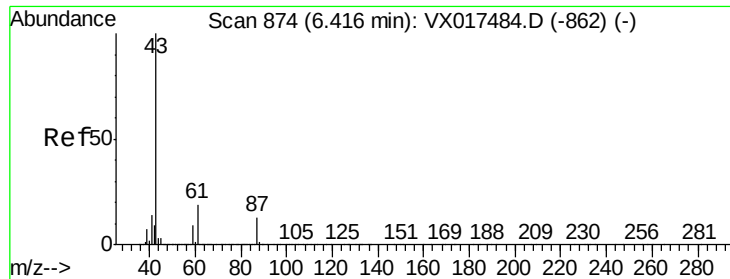
Ion Ratio Lower Upper

117 100

119 5.9 75.4 113.0#

121 0.4 24.3 36.5#





#43

Isopropyl Acetate

Concen: 12.289 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

ClientSampleId :

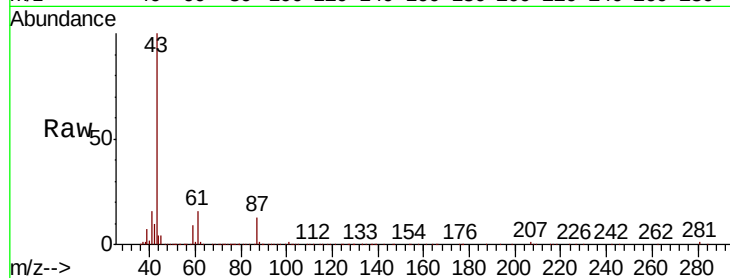
Tot Ion: 43 Resp: 174536

Ion Ratio Lower Upper

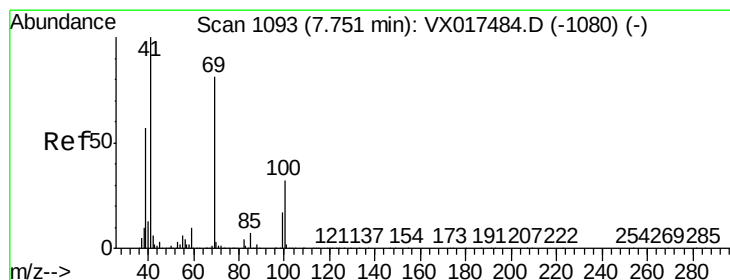
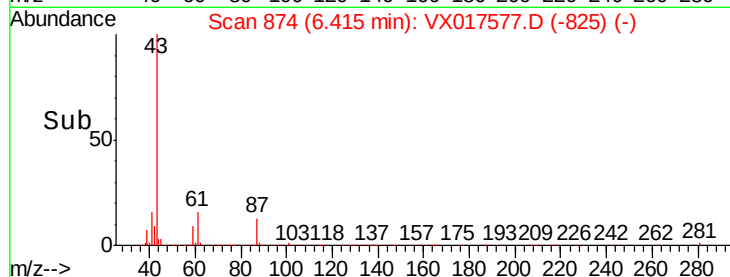
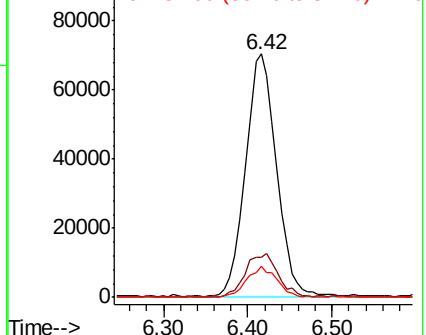
43 100

61 18.6 15.5 23.3

87 12.6 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

Methyl methacrylate

Concen: 39.254 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

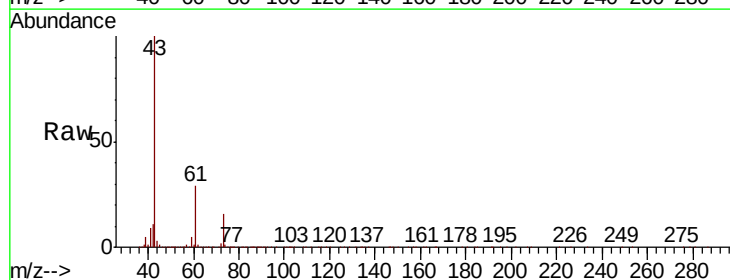
Tgt Ion: 41 Resp: 276358

Ion Ratio Lower Upper

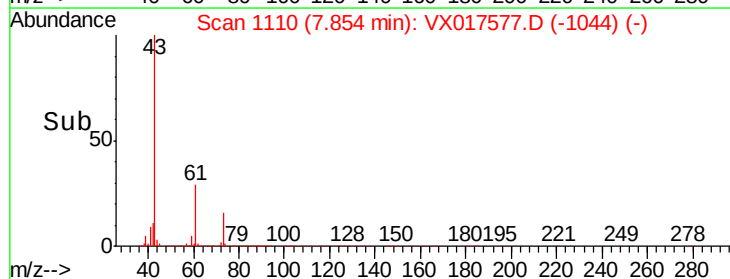
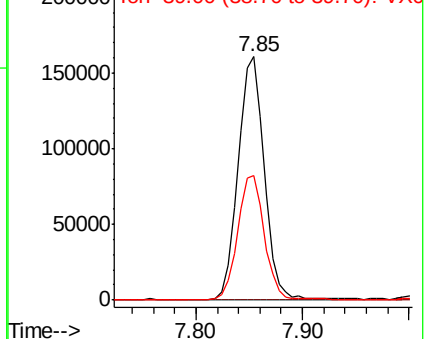
41 100

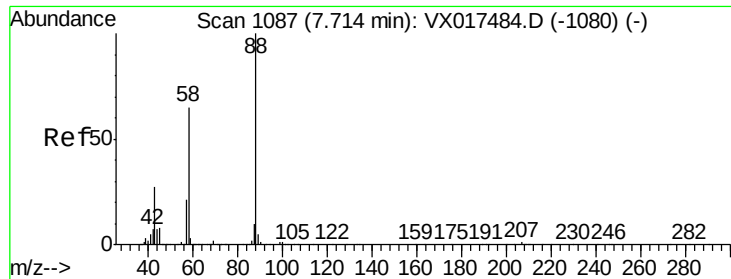
69 0.4 63.1 94.7#

39 52.4 45.1 67.7



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

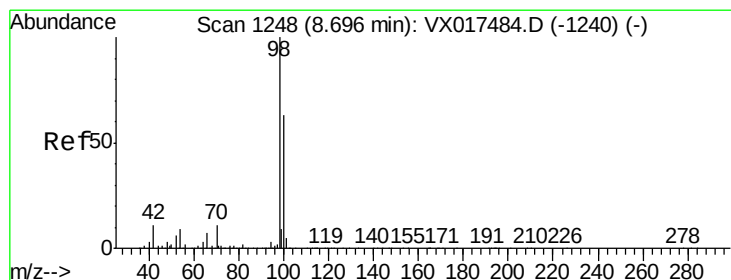
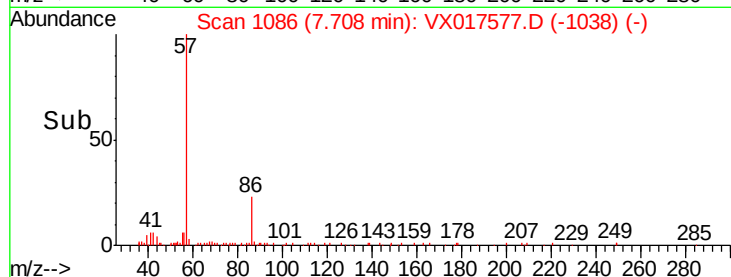
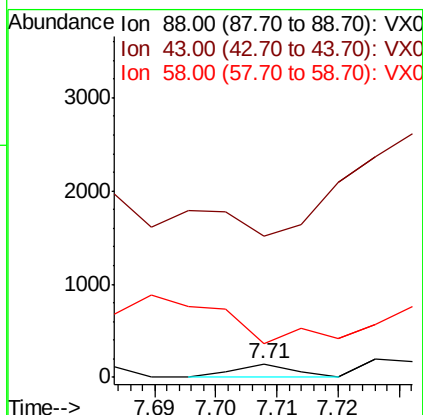
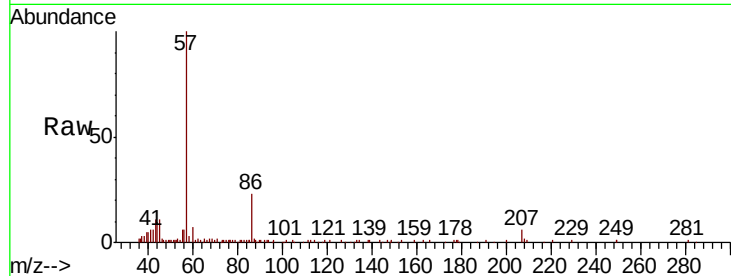




#49
1,4-Dioxane
Concen: 0.711 ug/l
RT: 7.71 min Scan# 1086
Delta R.T. -0.01 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

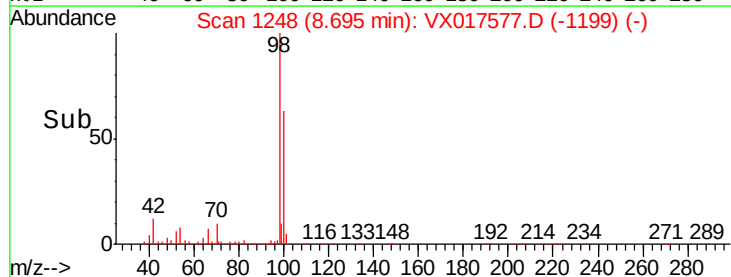
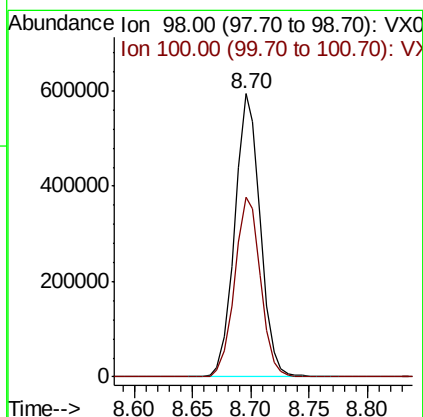
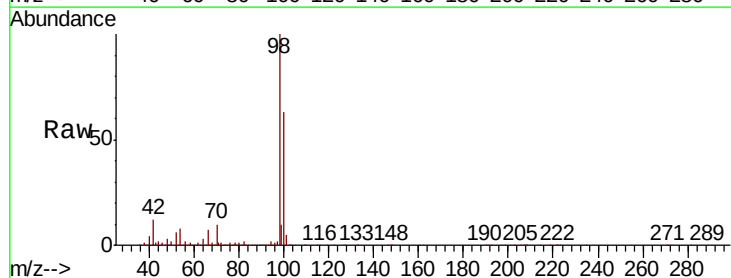
Instrument :
MSVOA_X
ClientSampleId :

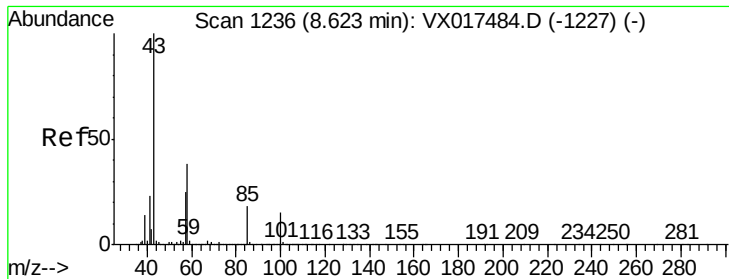
Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	0.0	58.3	87.5#



#50
Toluene-d8
Concen: 45.804 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.3	78.5

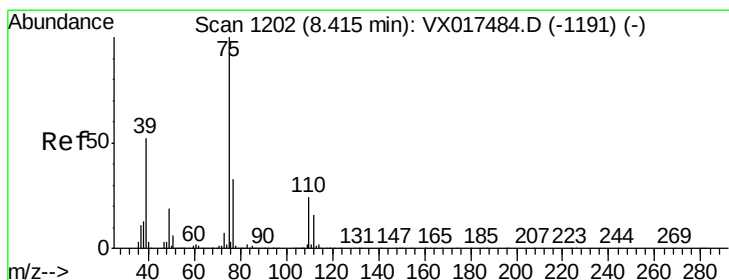
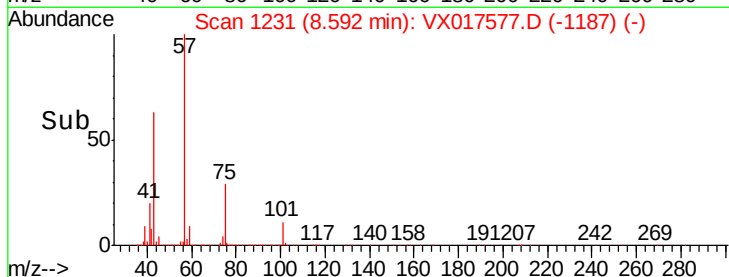
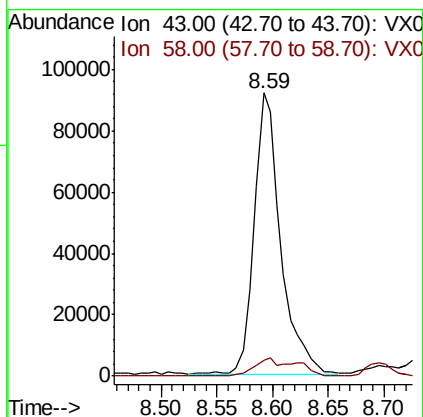
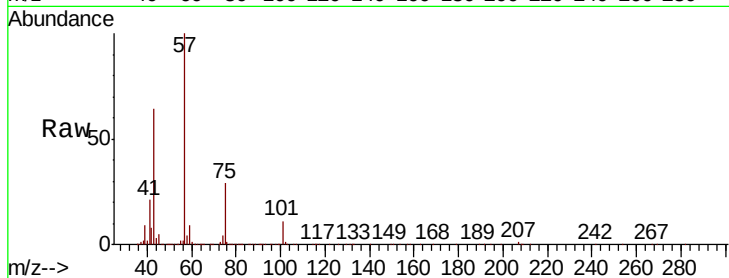




#51
 4-Methyl-2-Pentanone
 Concen: 17.844 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.03 min
 Lab File: VX017577.D
 Acq: 25 Jul 2020 07:39

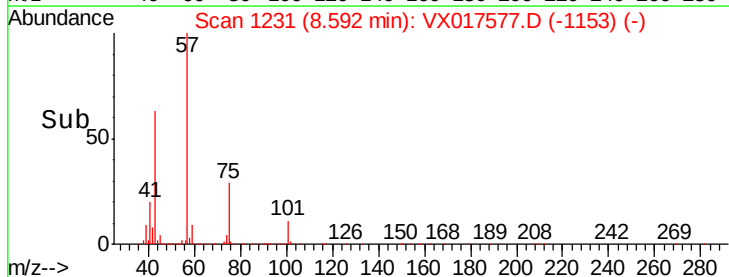
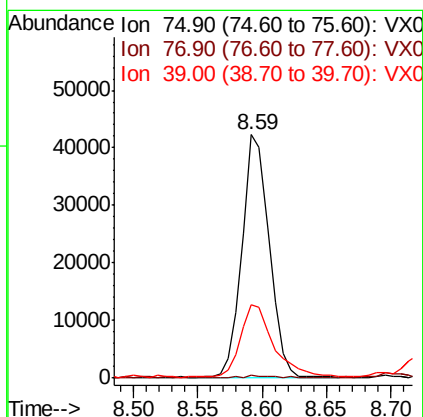
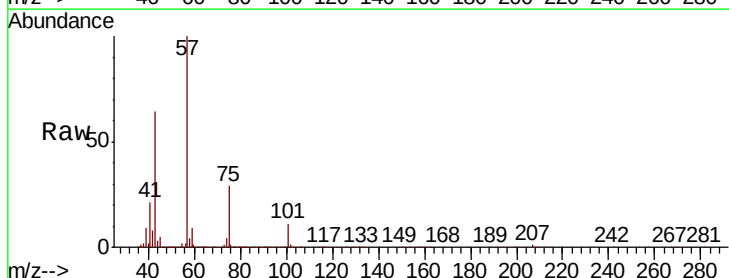
Instrument :
 MSVOA_X
 ClientSampleId :

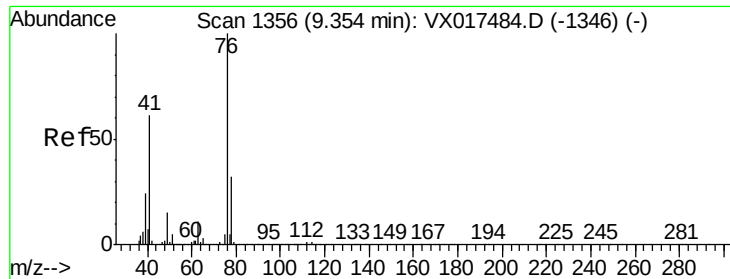
Tot Ion: 43 Resp: 151214
 Ion Ratio Lower Upper
 43 100
 58 6.2 31.0 46.4#



#54
 cis-1,3-Dichloropropene
 Concen: 6.098 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017577.D
 Acq: 25 Jul 2020 07:39

Tgt Ion: 75 Resp: 61912
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.5 38.3#
 39 28.8 41.8 62.8#

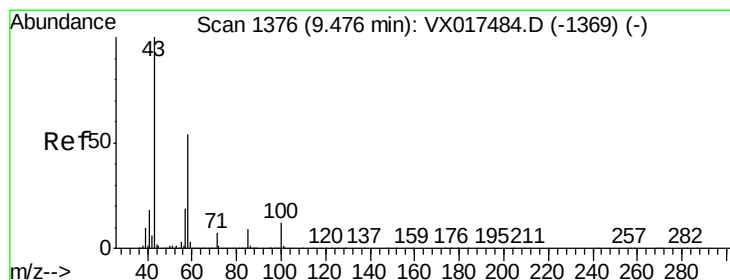
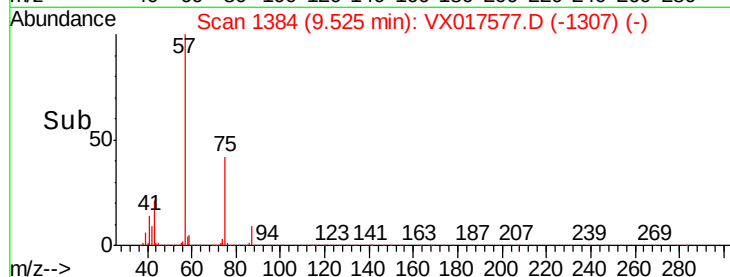
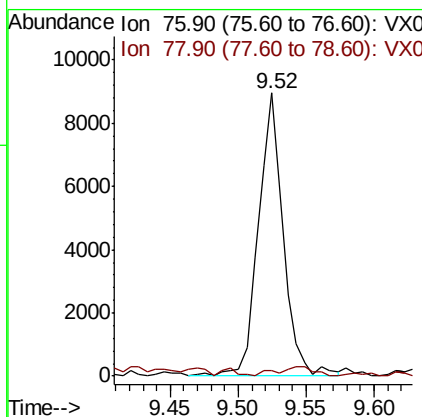
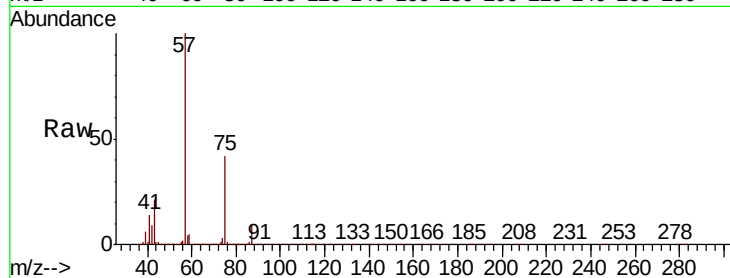




#57
 1,3-Dichloropropane
 Concen: 1.168 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX017577.D
 Acq: 25 Jul 2020 07:39

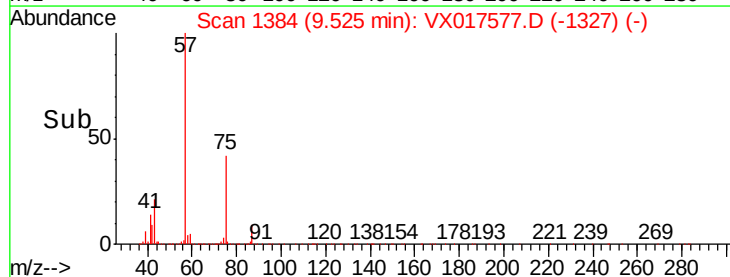
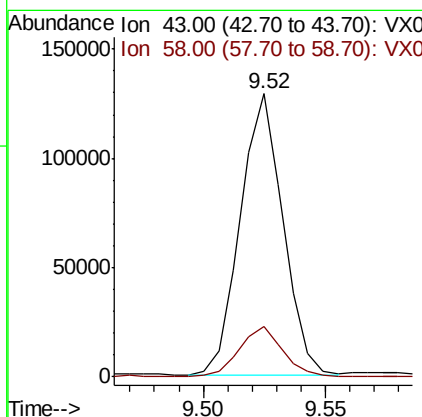
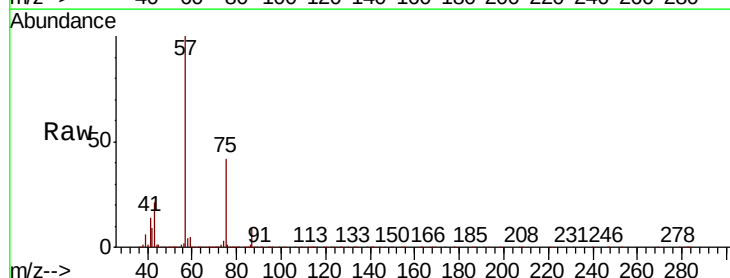
Instrument :
 MSVOA_X
 ClientSampleId :

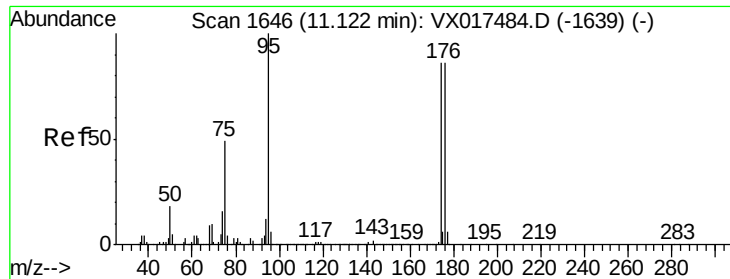
Tot Ion: 76 Resp: 11592
 Ion Ratio Lower Upper
 76 100
 78 4.7 25.8 38.8#



#59
 2-Hexanone
 Concen: 24.452 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.05 min
 Lab File: VX017577.D
 Acq: 25 Jul 2020 07:39

Tgt Ion: 43 Resp: 156006
 Ion Ratio Lower Upper
 43 100
 58 18.2 26.6 79.8#

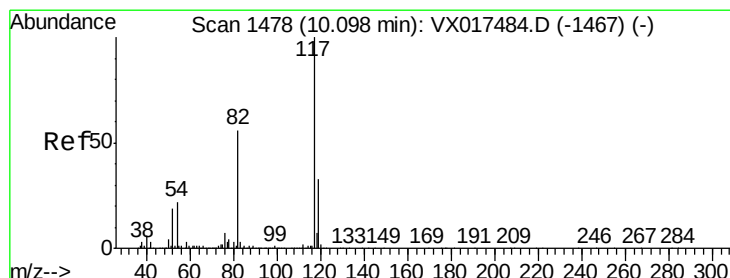
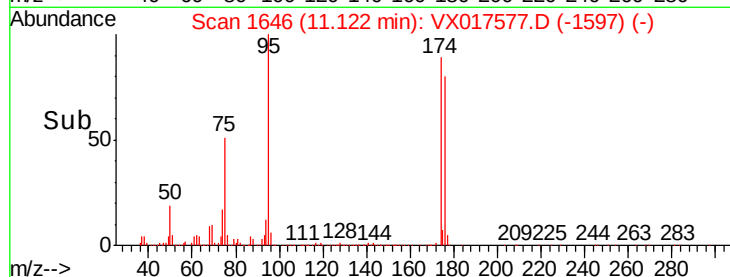
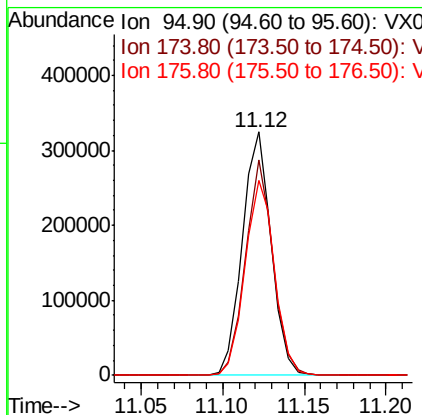
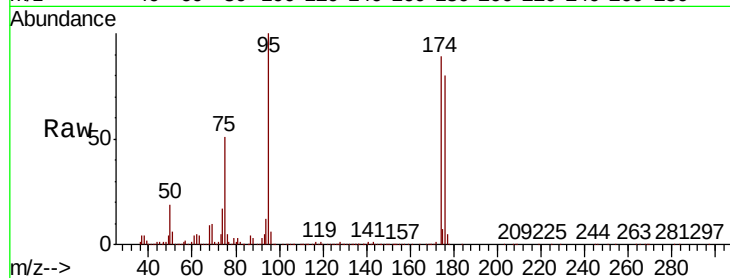




#62
4-Bromofluorobenzene
Concen: 50.710 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

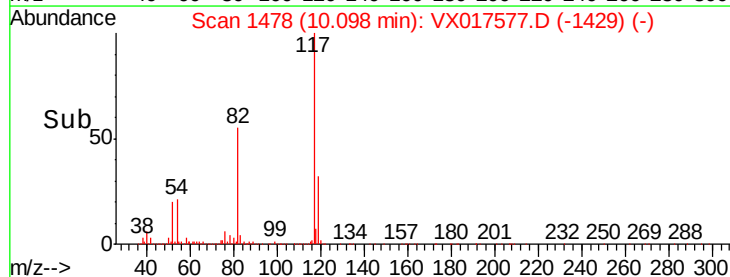
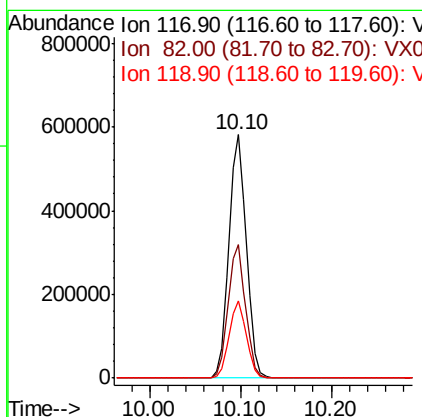
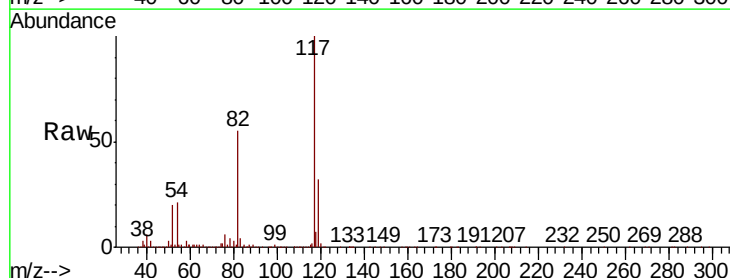
Instrument :
MSVOA_X
ClientSampleId :

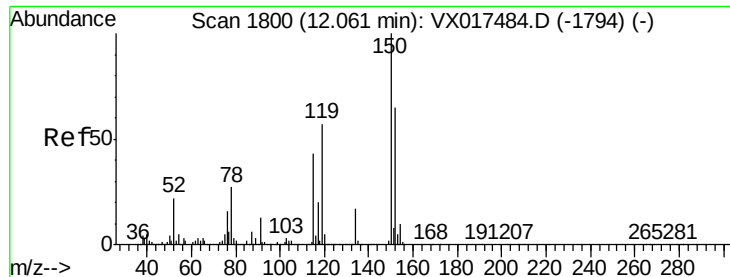
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.0	0.0	169.0
176	81.8	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017577.D
Acq: 25 Jul 2020 07:39

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.0	44.0	66.0
119	31.7	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: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

ClientSampleId :

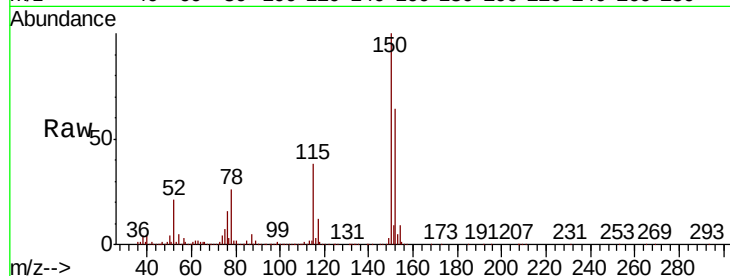
Tot Ion:152 Resp: 434038

Ion Ratio Lower Upper

152 100

115 58.4 65.5 196.6#

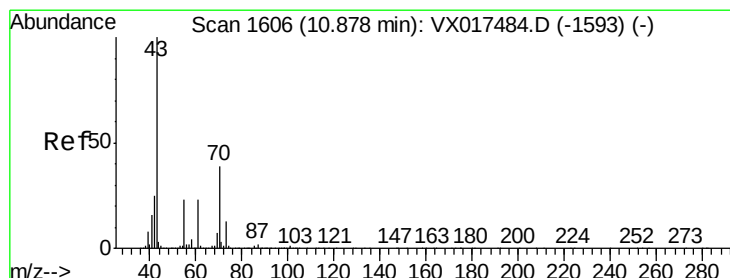
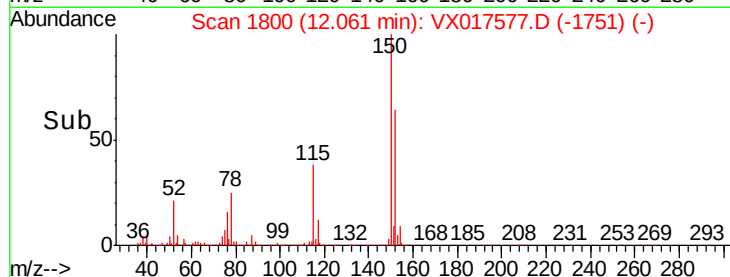
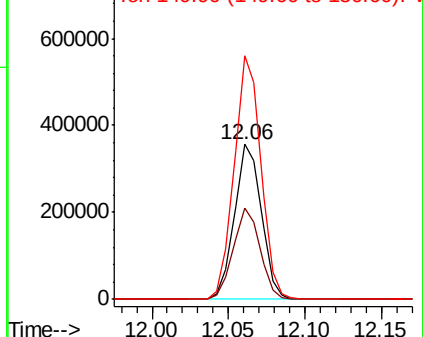
150 155.6 0.0 412.6



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



#74

N-ethyl acetate

Concen: 0.530 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Tgt Ion: 43 Resp: 7008

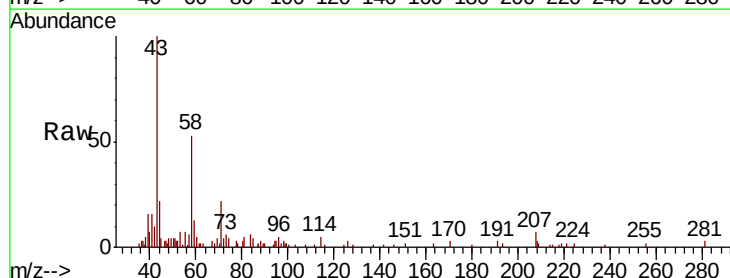
Ion Ratio Lower Upper

43 100

70 5.6 32.3 48.5#

55 9.2 18.4 27.6#

61 0.0 18.6 28.0#

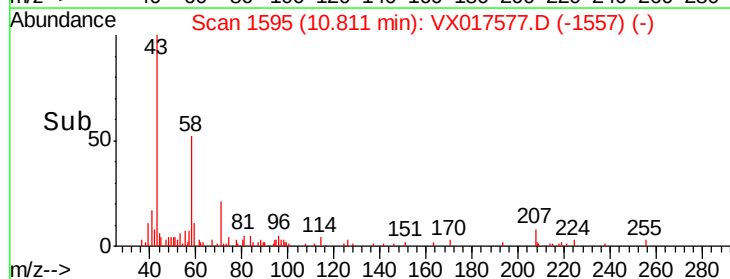
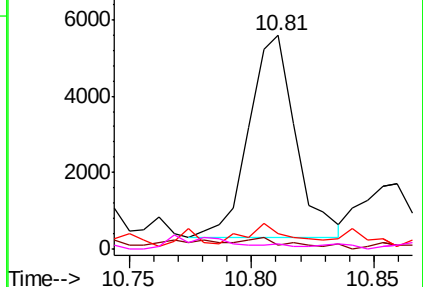


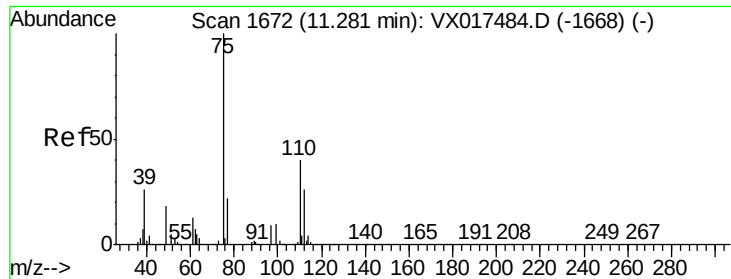
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.999 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

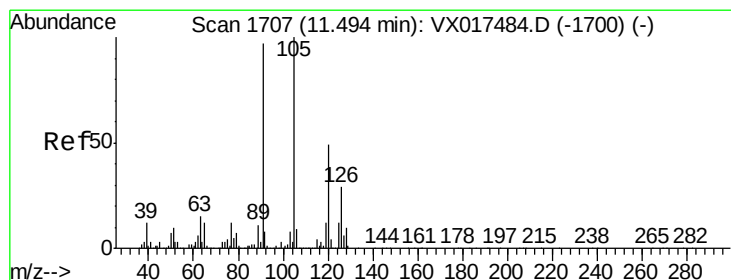
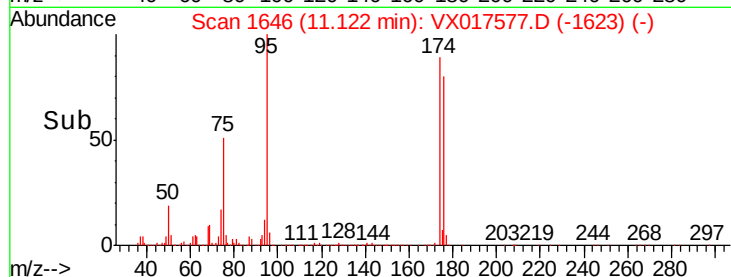
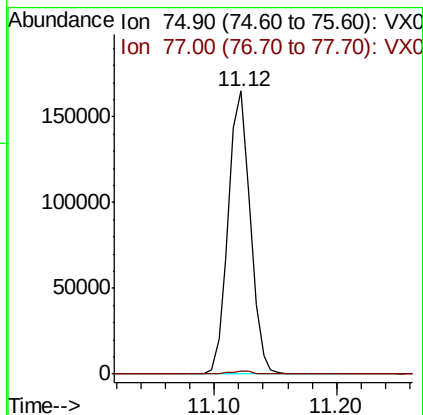
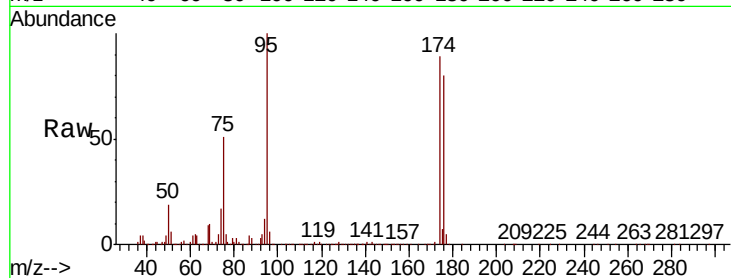
ClientSampleId :

Tot Ion: 75 Resp: 205342

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



#80

1,3,5-Trimethylbenzene

Concen: 0.608 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX017577.D

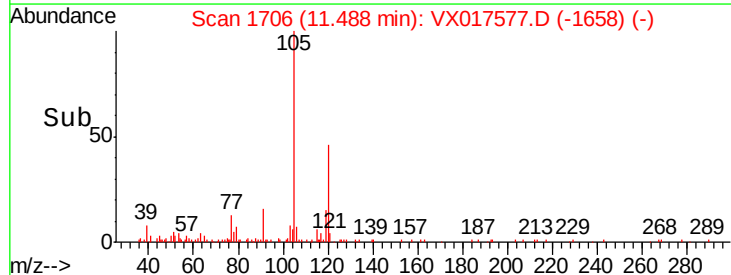
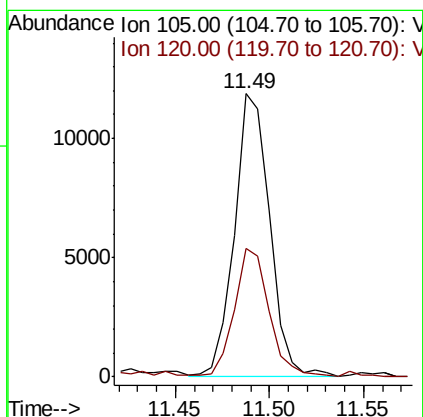
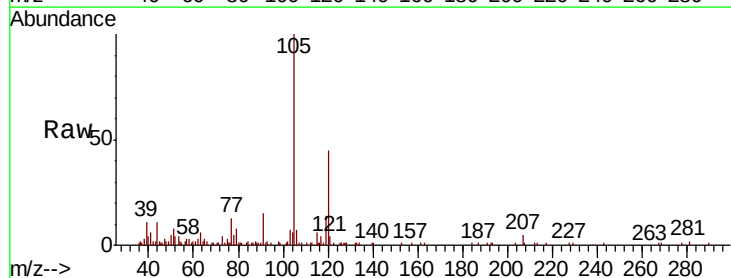
Acq: 25 Jul 2020 07:39

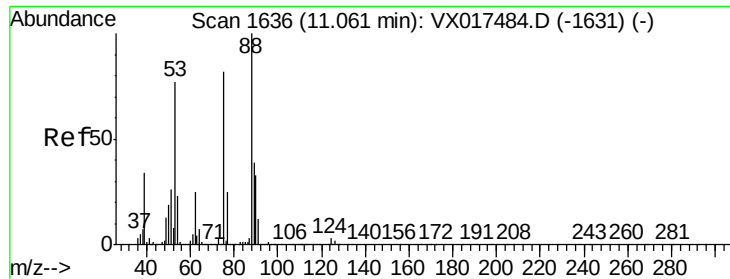
Tgt Ion: 105 Resp: 15459

Ion Ratio Lower Upper

105 100

120 44.5 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 57.952 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

Instrument :

MSVOA_X

ClientSampled :

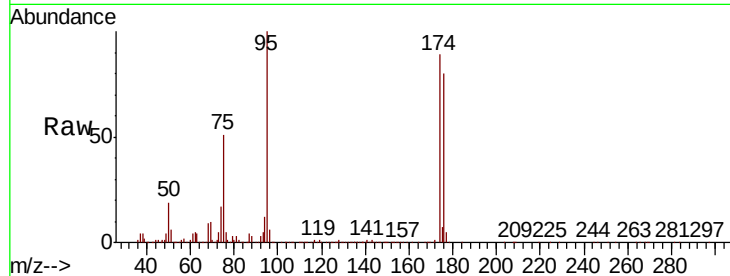
Tot Ion: 75 Resp: 205342

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

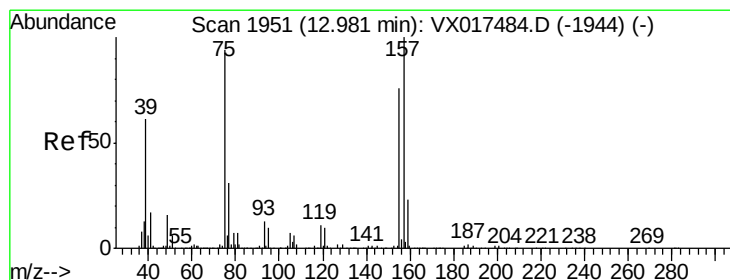
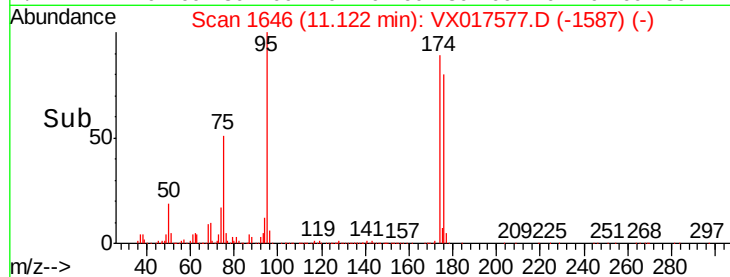
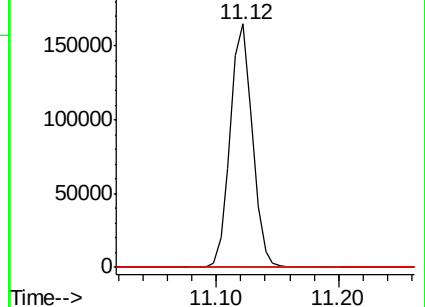
89 0.1 37.8 56.6#



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: 2.666 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX017577.D

Acq: 25 Jul 2020 07:39

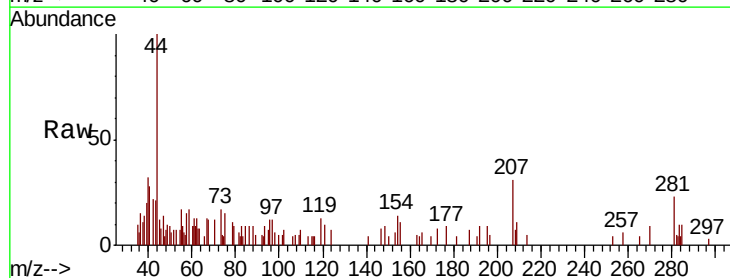
Tgt Ion: 75 Resp: 249

Ion Ratio Lower Upper

75 100

155 32.1 42.3 126.8#

157 28.1 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

