

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017600.D
 Acq On : 25 Jul 2020 16:46
 Operator : JC/SP
 Sample : L3383-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 74 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:15:38 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	423726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	655152	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	728692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	378407	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	293976	54.01	ug/l	0.00
Spiked Amount			Recovery	=	108.02%	
35) Dibromofluoromethane	5.46	113	252848	57.71	ug/l	0.00
Spiked Amount			Recovery	=	115.42%	
50) Toluene-d8	8.70	98	832161	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
62) 4-Bromofluorobenzene	11.12	95	361838	57.20	ug/l	0.00
Spiked Amount			Recovery	=	114.40%	

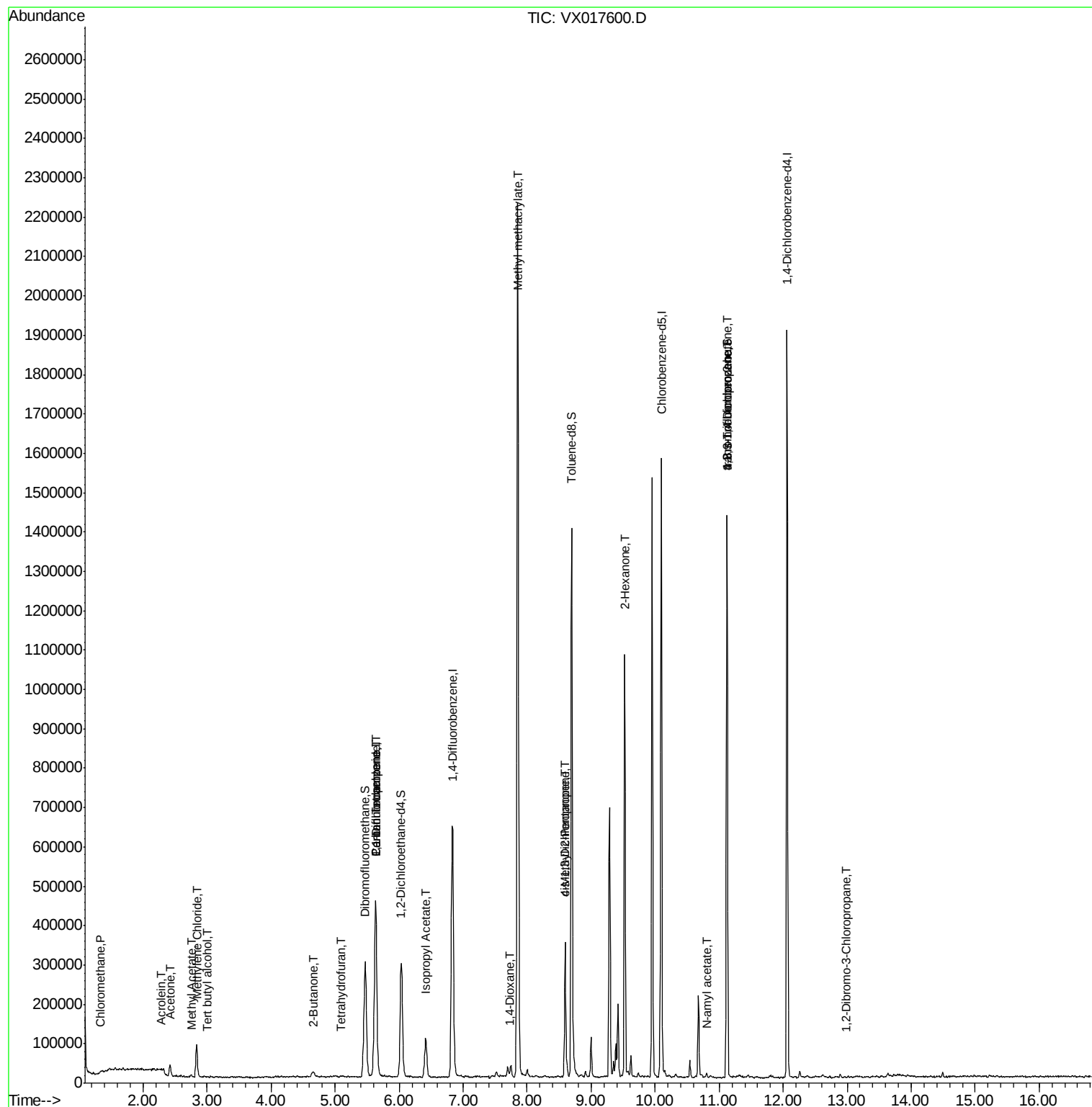
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	423	Below Cal	#	42
3) Chloromethane	1.32	50	1247	0.603	ug/l	96
5) Bromomethane	1.61	94	137	Below Cal	#	1
6) Chloroethane	1.68	64	189	Below Cal	#	6
8) Diethyl Ether	2.17	74	1763	Below Cal		68
11) Tert butyl alcohol	3.00	59	2641	2.302	ug/l #	67
13) Acrolein	2.28	56	447	4.650	ug/l #	14
16) Acetone	2.42	43	31614	13.197	ug/l	90
18) Methyl Acetate	2.75	43	8227	1.458	ug/l #	70
20) Methylene Chloride	2.84	84	39908	7.760	ug/l	95
25) 2-Butanone	4.66	43	5943	1.746	ug/l #	70
29) Tetrahydrofuran	5.09	42	724	0.343	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	34216	5.445	ug/l #	52
38) Carbon Tetrachloride	5.63	117	43728	5.731	ug/l #	17
43) Isopropyl Acetate	6.42	43	137528	12.124	ug/l	100
48) Methyl methacrylate	7.85	41	193993	34.501	ug/l #	46
49) 1,4-Dioxane	7.73	88	101	0.937	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	126923	18.753	ug/l #	52
54) cis-1,3-Dichloropropene	8.60	75	51700	6.376	ug/l #	60
59) 2-Hexanone	9.52	43	128649	25.246	ug/l #	50
74) N-amyl acetate	10.81	43	5960	0.517	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	190508	24.474	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	190508	61.670	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	340	2.717	ug/l #	24

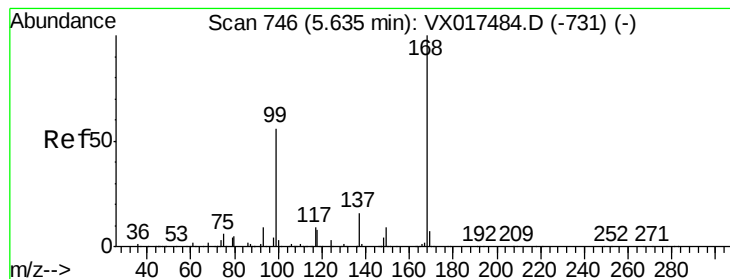
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017600.D

Acq: 25 Jul 2020 16:46

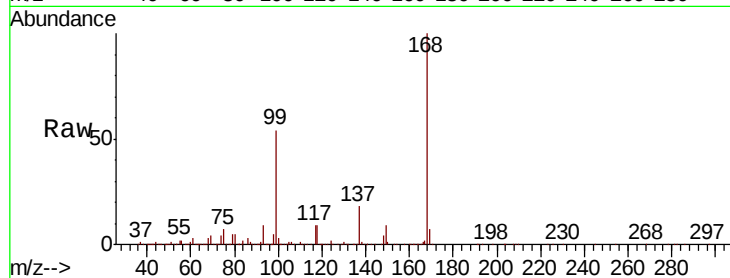
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 423726

Ion Ratio Lower Upper

168 100

99 53.8 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

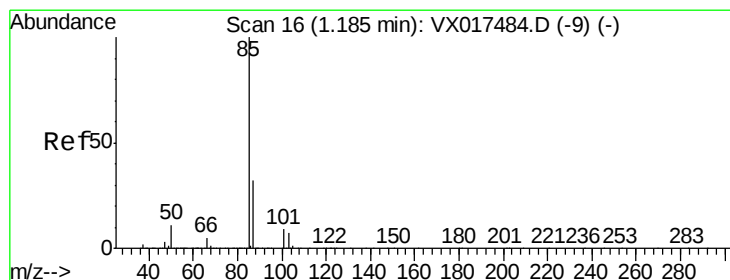
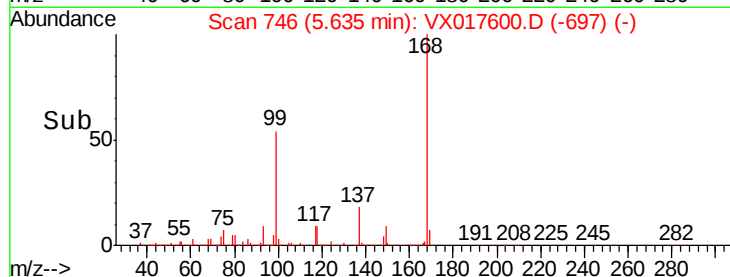
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017600.D

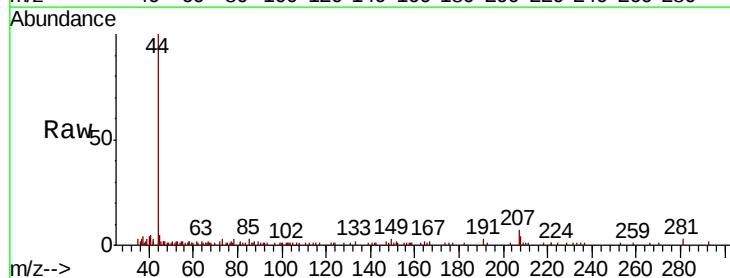
Acq: 25 Jul 2020 16:46

Tgt Ion: 85 Resp: 423

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

300

250

200

150

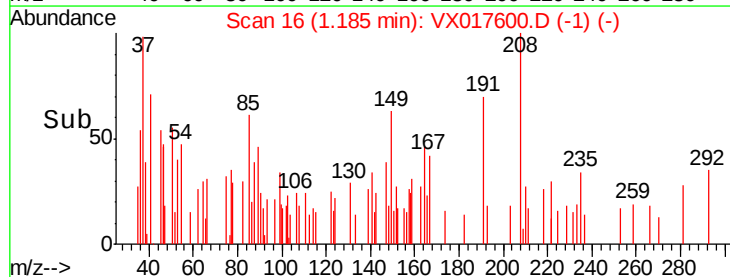
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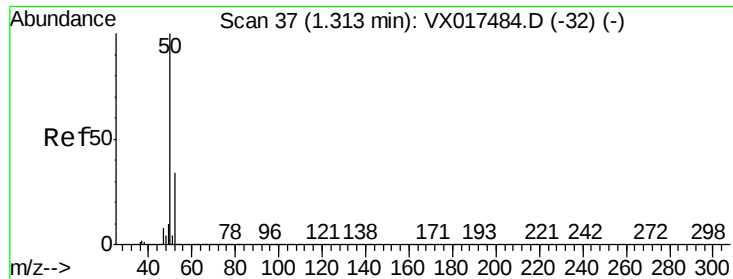
50

0

Time-->

1.16 1.18 1.20 1.22

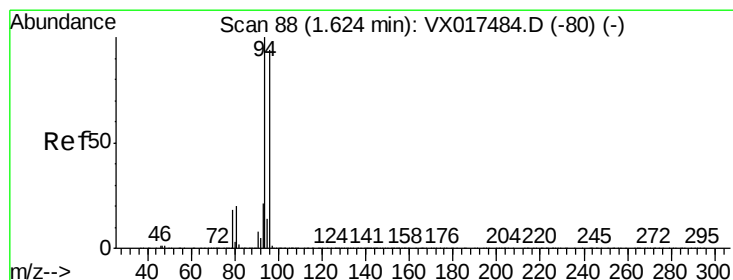
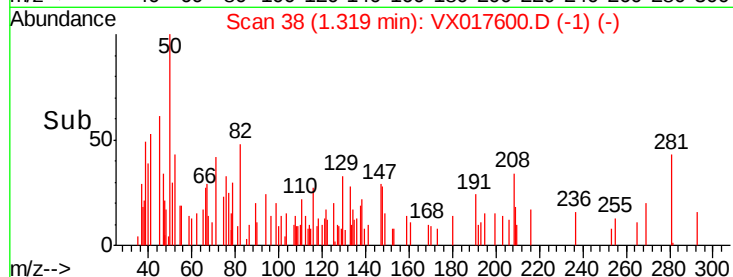
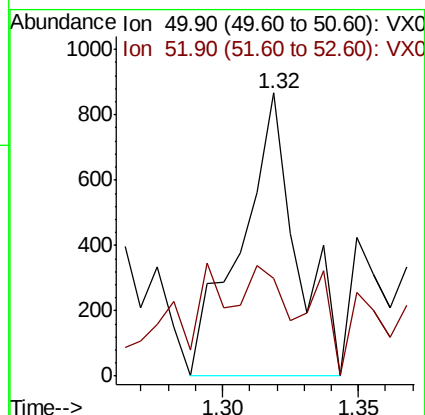
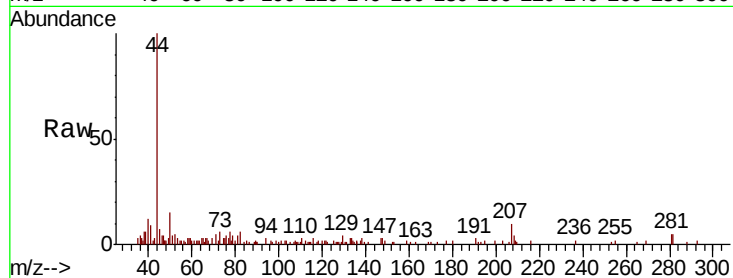




#3
Chloromethane
Concen: 0.603 ug/l
RT: 1.32 min Scan# 38
Delta R.T. 0.01 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

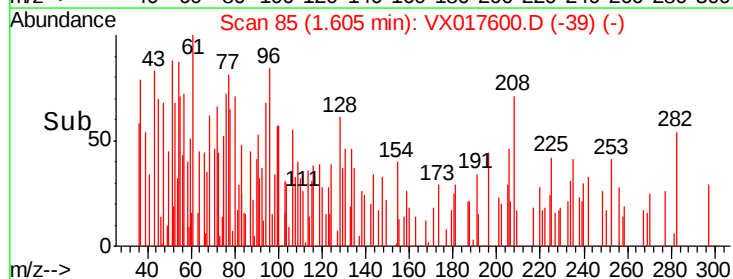
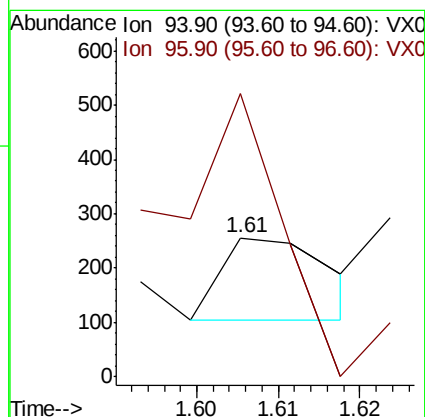
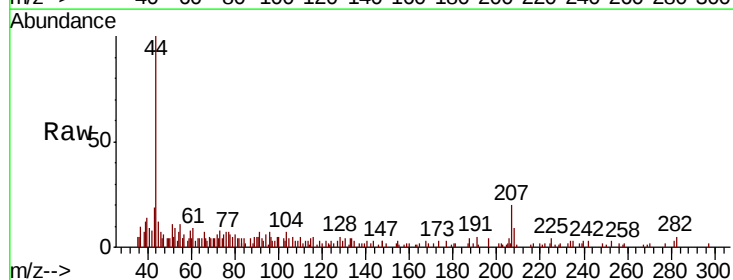
Instrument :
MSVOA_X
ClientSampled :

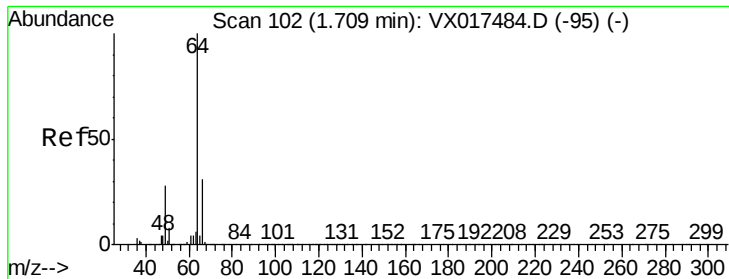
Tot Ion: 50 Resp: 1247
Ion Ratio Lower Upper
50 100
52 34.6 25.9 38.9



#5
Bromomethane
Concen: Below Cal
RT: 1.61 min Scan# 85
Delta R.T. -0.02 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion: 94 Resp: 137
Ion Ratio Lower Upper
94 100
96 345.0 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 97

Delta R.T. -0.03 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

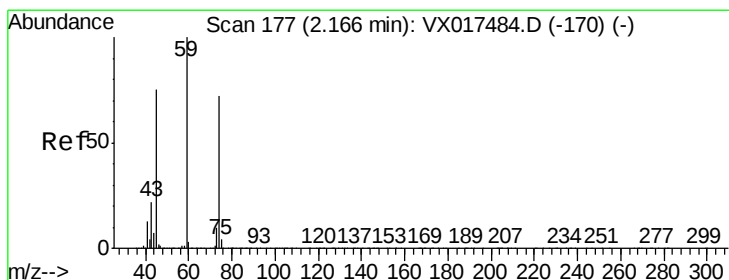
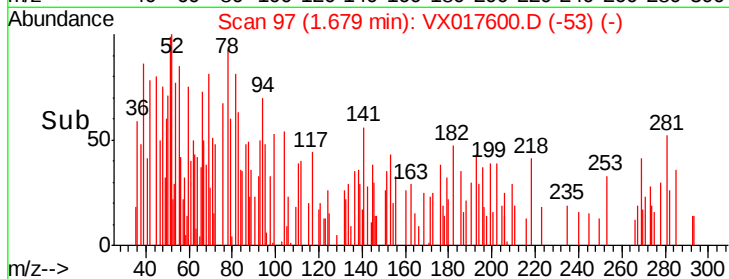
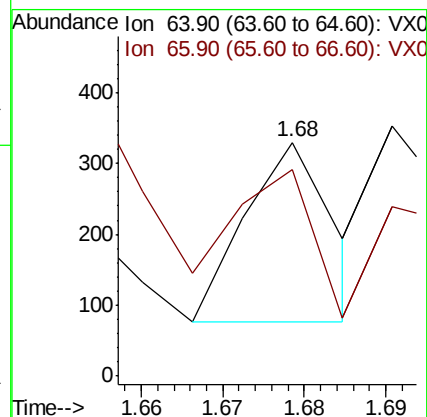
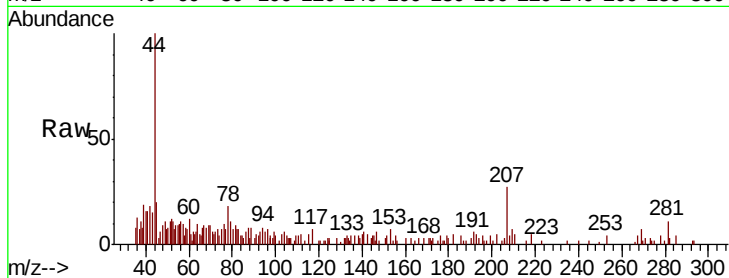
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 64 Resp: 189

Ion Ratio Lower Upper

64 100

66 82.7 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017600.D

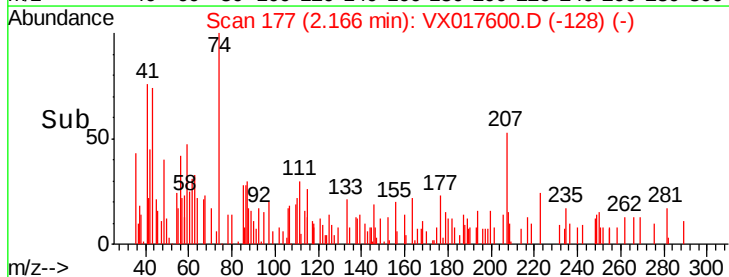
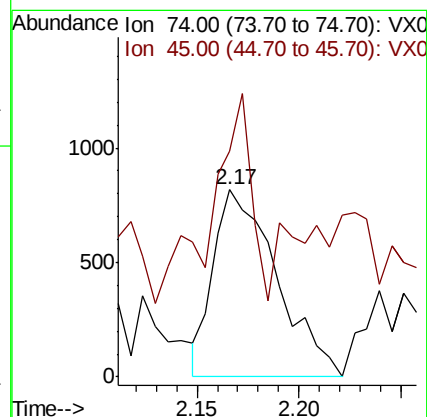
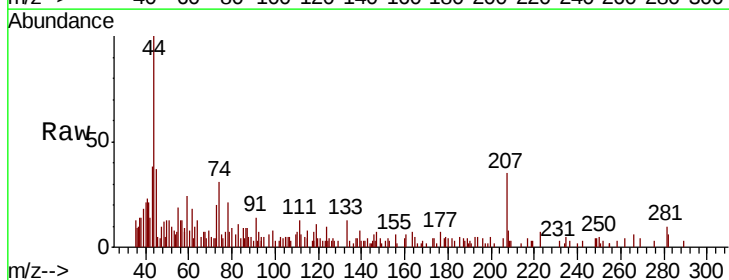
Acq: 25 Jul 2020 16:46

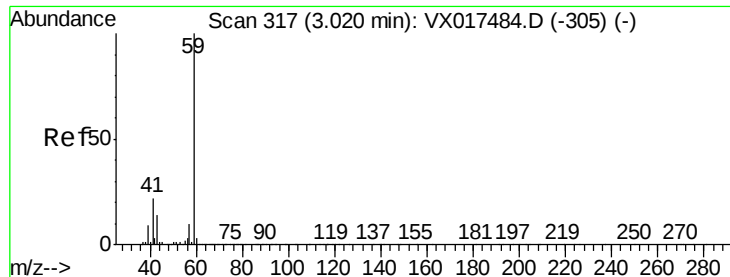
Tgt Ion: 74 Resp: 1763

Ion Ratio Lower Upper

74 100

45 69.7 50.8 152.5

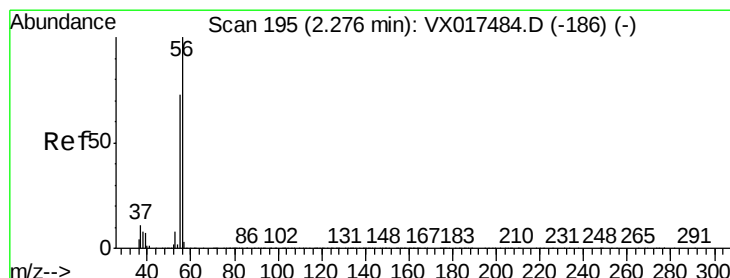
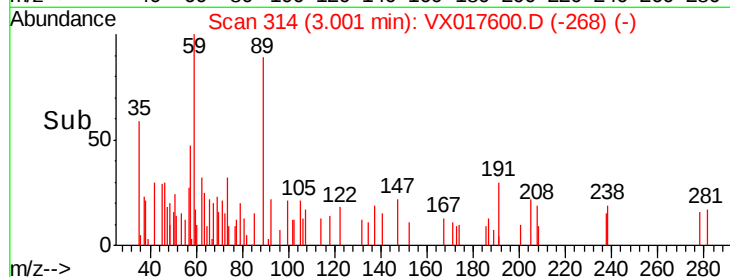
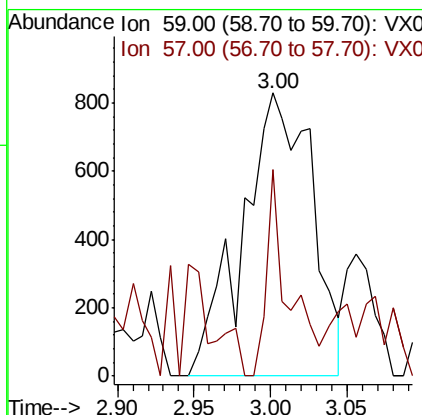
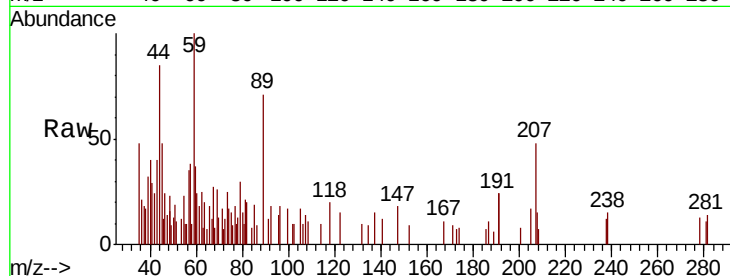




#11
Tert butvl alcohol
Concen: 2.302 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

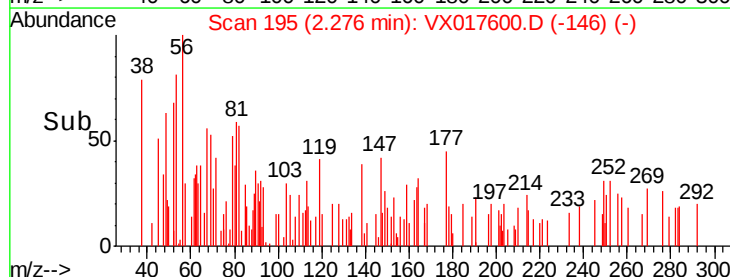
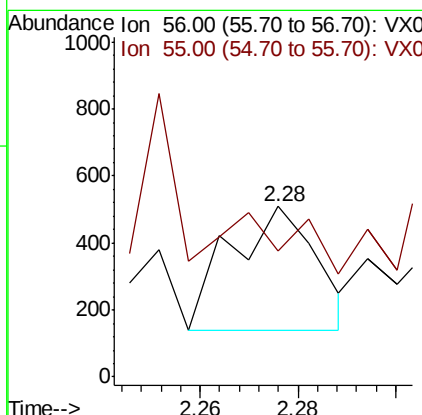
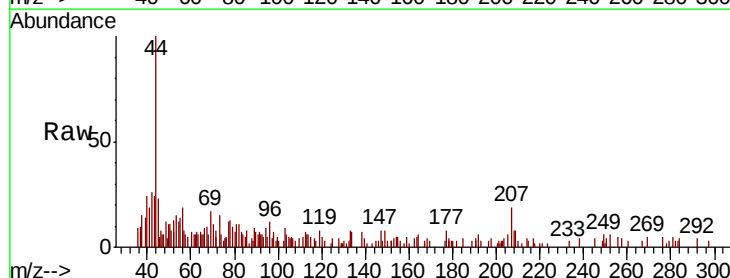
Instrument :
MSVOA_X
ClientSampled :

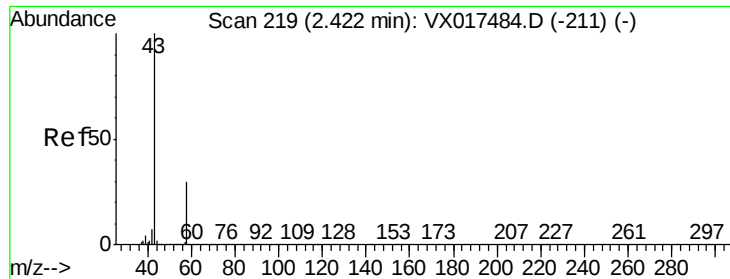
Tot Ion: 59 Resp: 2641
Ion Ratio Lower Upper
59 100
57 23.1 8.6 12.8#



#13
Acrolein
Concen: 4.650 ug/l
RT: 2.28 min Scan# 195
Delta R.T. -0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion: 56 Resp: 447
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.2#

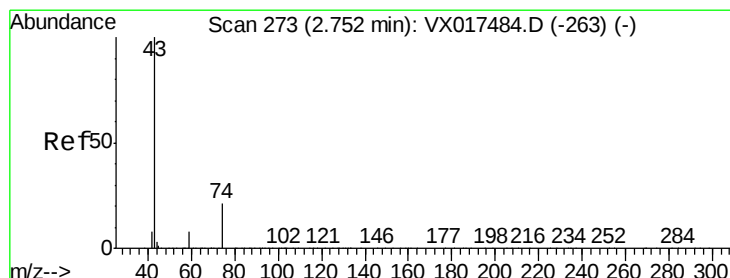
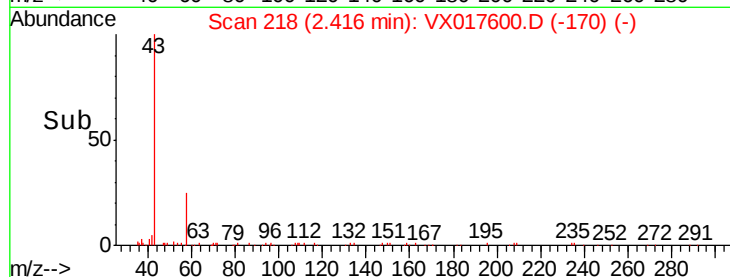
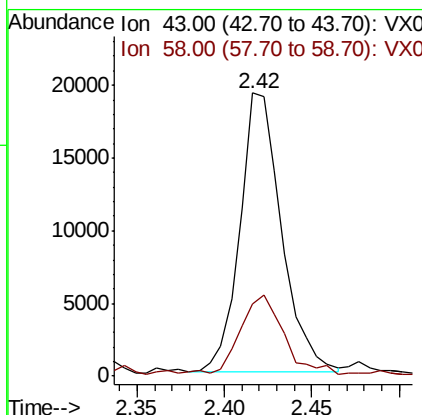
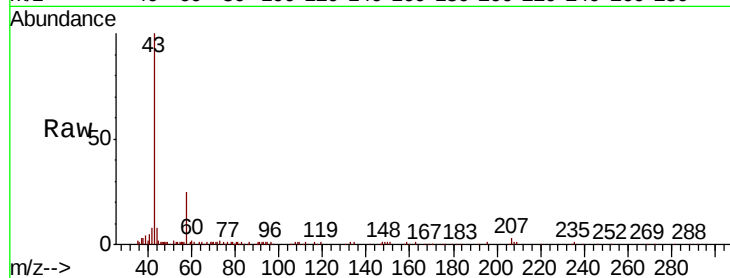




#16
Acetone
Concen: 13.197 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

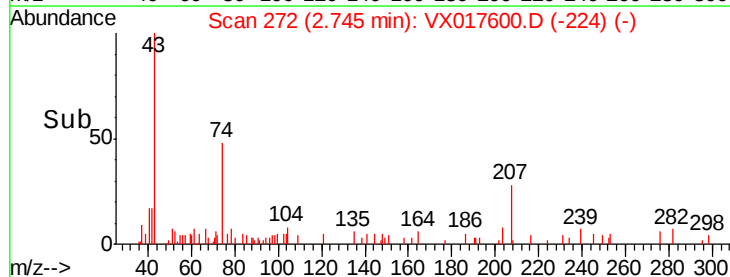
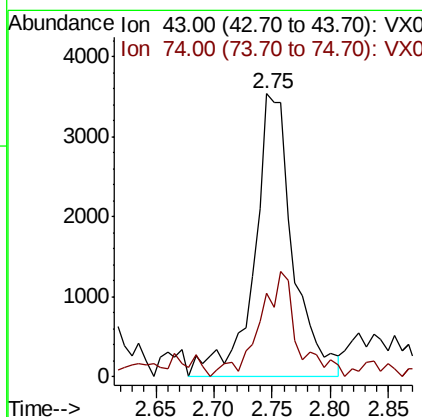
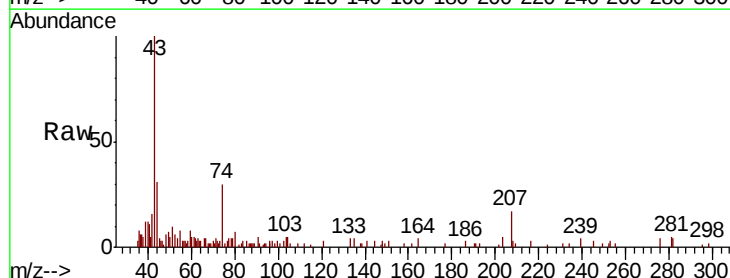
Instrument :
MSVOA_X
ClientSampleId :

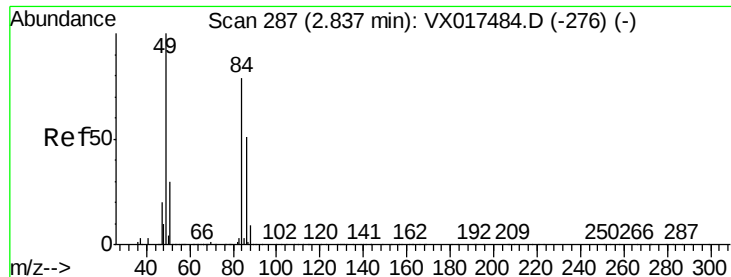
Tot Ion: 43 Resp: 31614
Ion Ratio Lower Upper
43 100
58 25.1 24.2 36.4



#18
Methyl Acetate
Concen: 1.458 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion: 43 Resp: 8227
Ion Ratio Lower Upper
43 100
74 36.2 17.5 26.3#

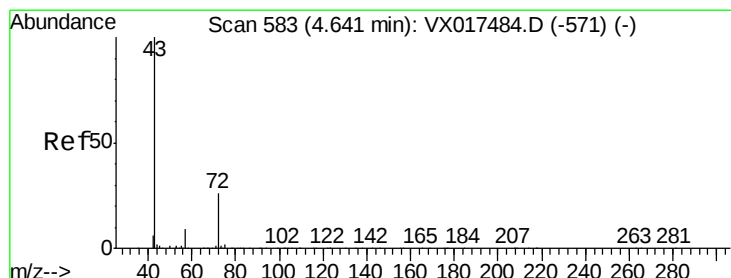
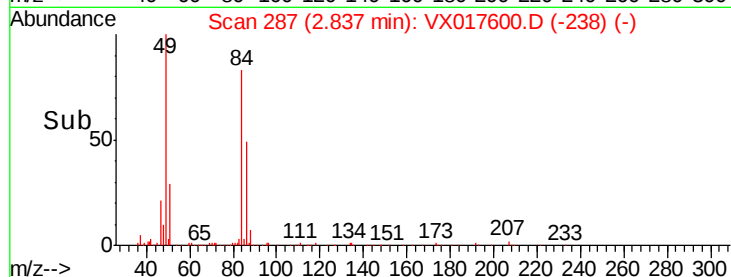
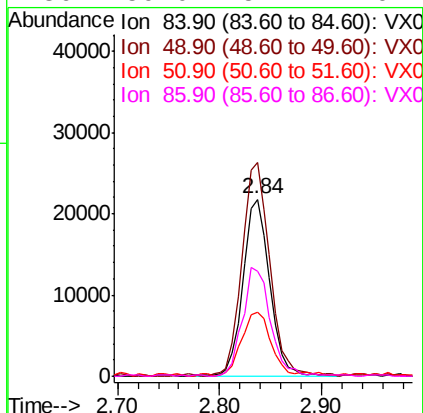
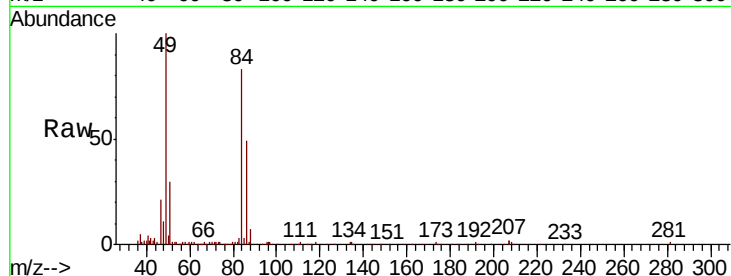




#20
Methvlene Chloride
Concen: 7.760 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

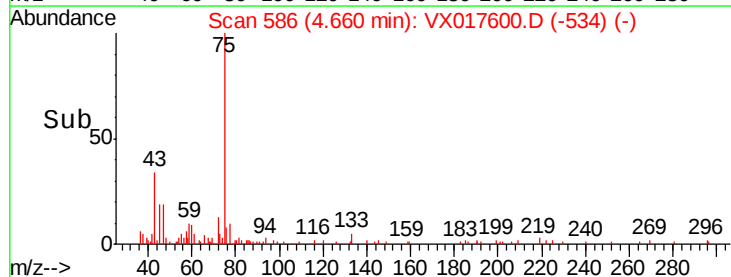
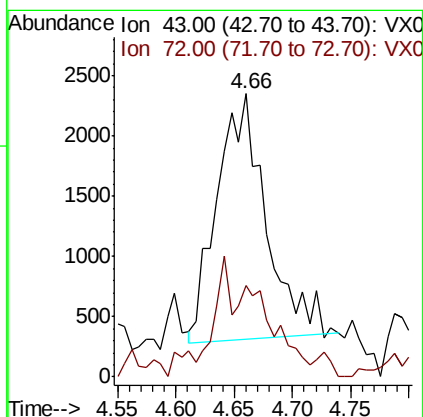
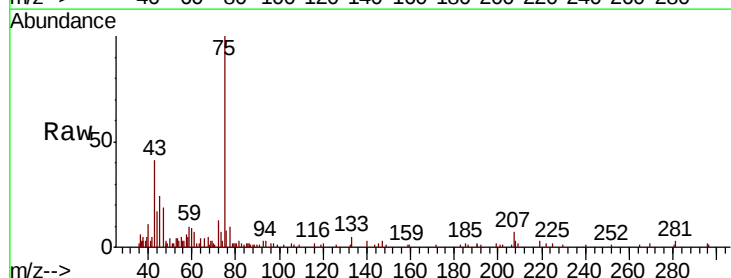
Instrument :
MSVOA_X
ClientSampleId :

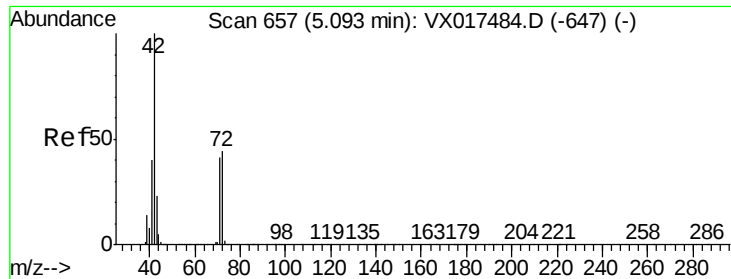
Tot Ion: 84 Resp: 39908
Ion Ratio Lower Upper
84 100
49 120.3 100.3 150.5
51 35.8 30.5 45.7
86 59.0 51.1 76.7



#25
2-Butanone
Concen: 1.746 ug/l
RT: 4.66 min Scan# 586
Delta R.T. 0.02 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion: 43 Resp: 5943
Ion Ratio Lower Upper
43 100
72 38.5 19.0 28.4#

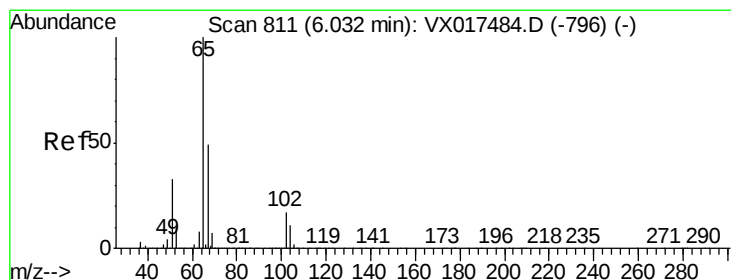
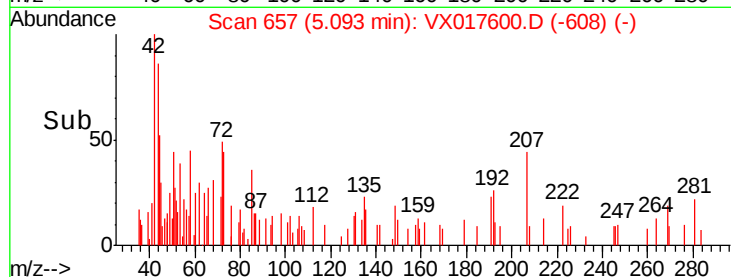
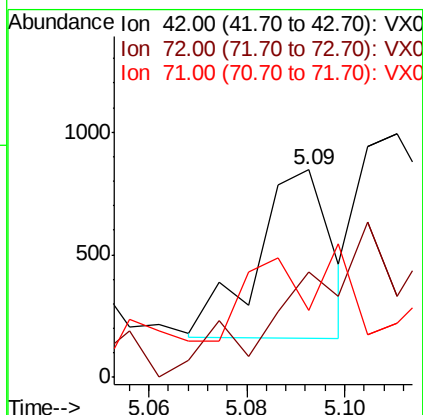
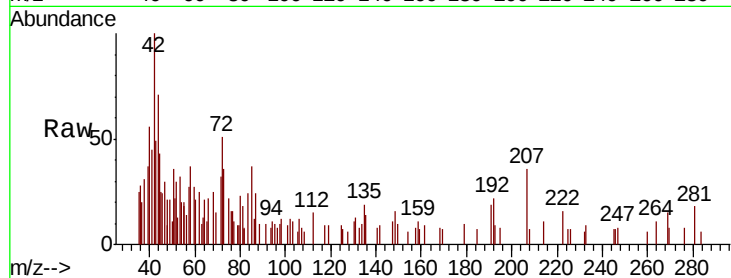




#29
Tetrahydrofuran
Concen: 0.343 ug/l
RT: 5.09 min Scan# 657
Delta R.T. -0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

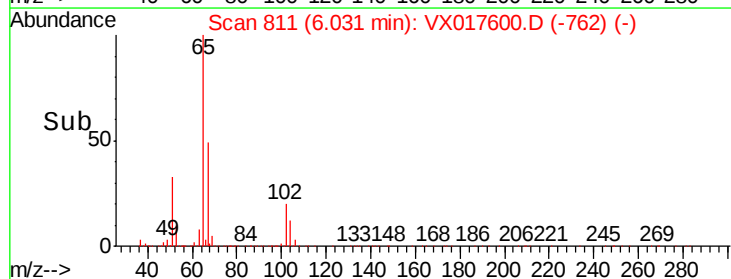
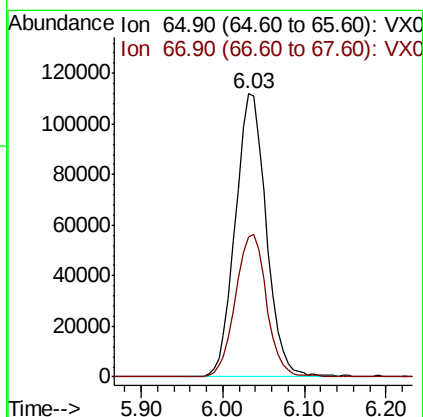
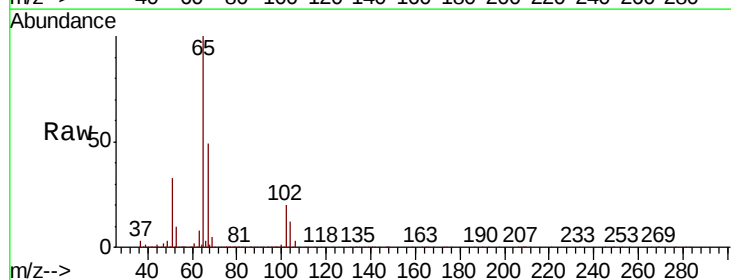
Instrument :
MSVOA_X
ClientSampled :

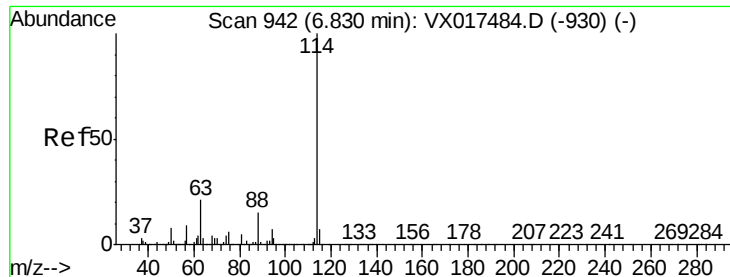
Tot Ion: 42 Resp: 724
Ion Ratio Lower Upper
42 100
72 0.0 35.5 53.3#
71 144.2 33.0 49.4#



#33
1,2-Dichloroethane-d4
Concen: 54.010 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion: 65 Resp: 293976
Ion Ratio Lower Upper
65 100
67 50.3 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: VX017600.D

Acq: 25 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

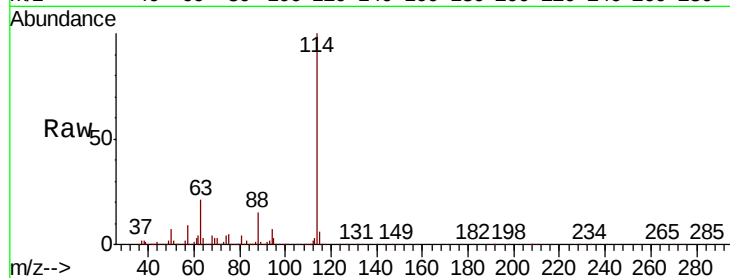
Tot Ion:114 Resp: 655152

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.6

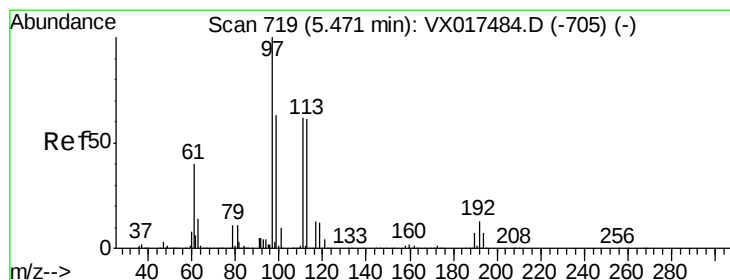
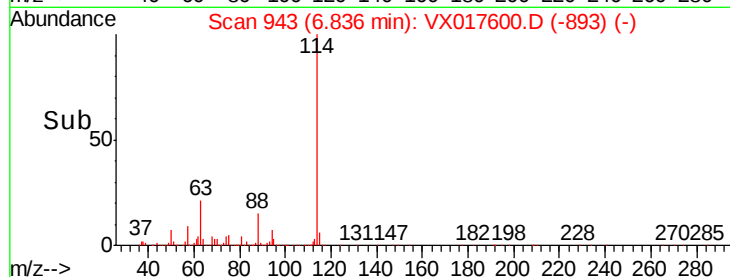
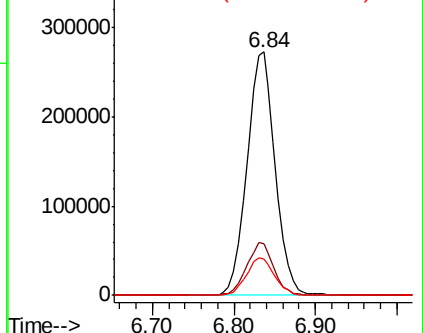
88 14.9 0.0 33.4



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: 57.706 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

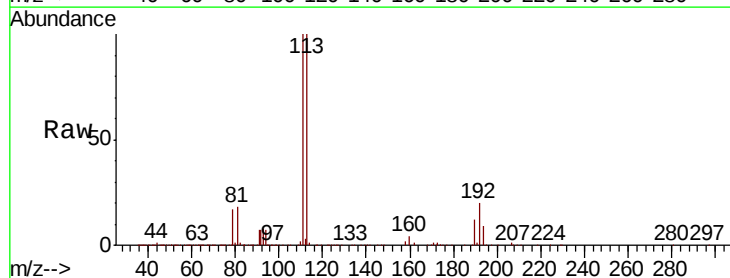
Tgt Ion:113 Resp: 252848

Ion Ratio Lower Upper

113 100

111 101.9 80.7 121.1

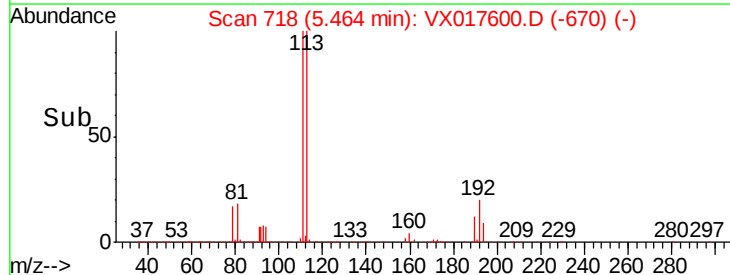
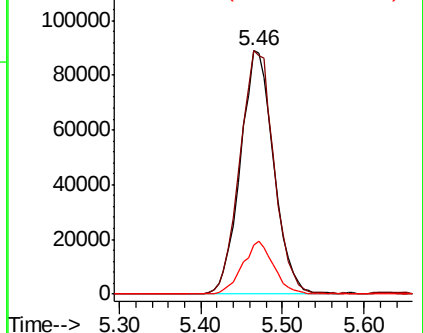
192 20.4 16.9 25.3

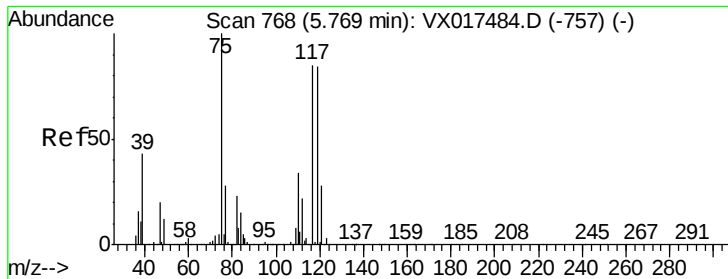


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.445 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

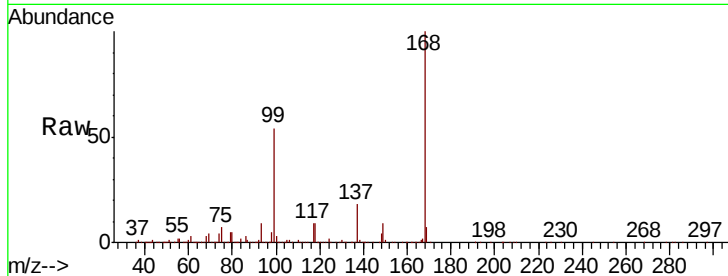
Tot Ion: 75 Resp: 34216

Ion Ratio Lower Upper

75 100

110 11.5 18.1 54.3#

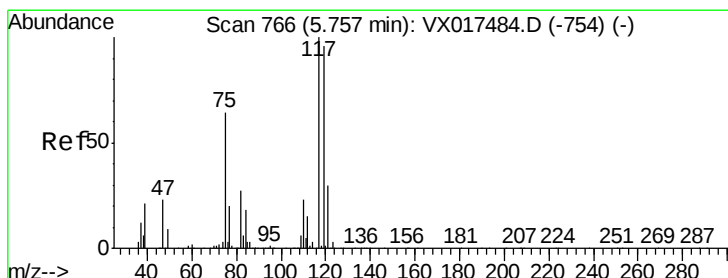
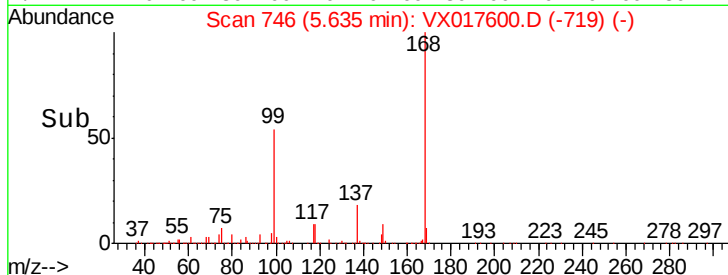
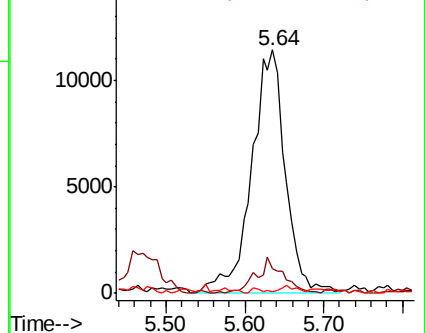
77 0.0 24.6 37.0#



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: 5.731 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

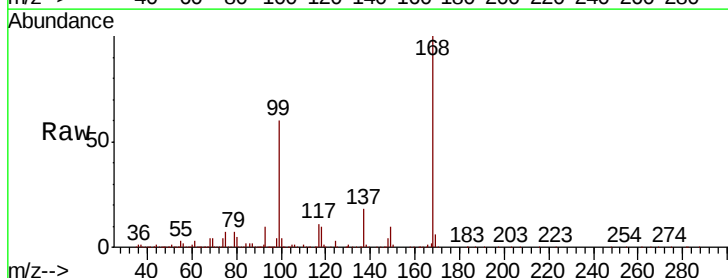
Tgt Ion: 117 Resp: 43728

Ion Ratio Lower Upper

117 100

119 5.6 75.4 113.0#

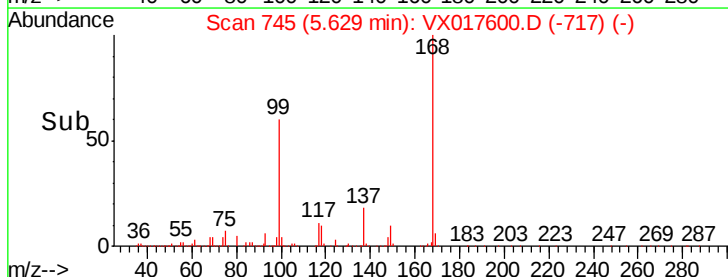
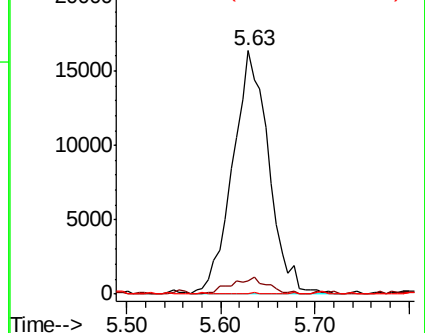
121 0.0 24.3 36.5#

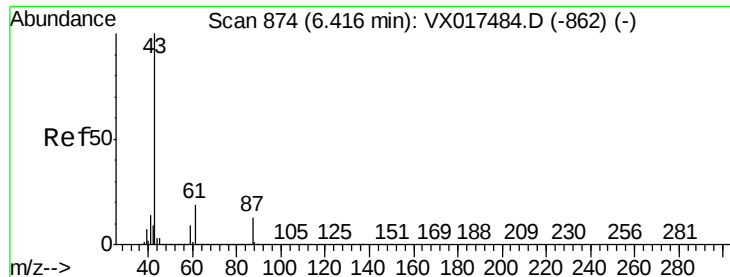


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 12.124 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

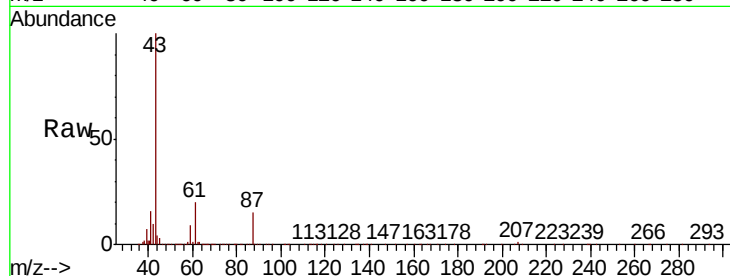
Tot Ion: 43 Resp: 137528

Ion Ratio Lower Upper

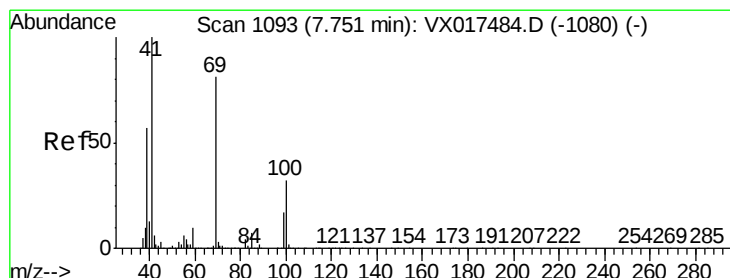
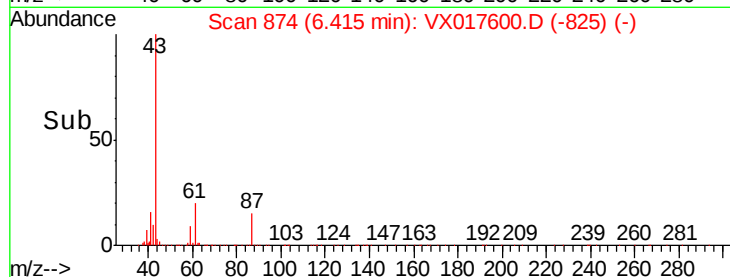
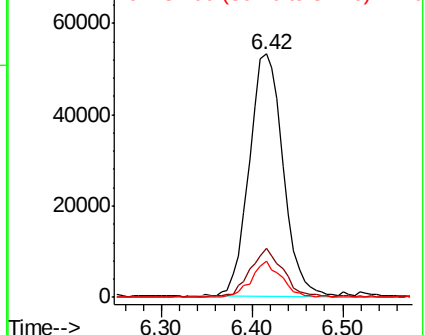
43 100

61 19.5 15.5 23.3

87 13.0 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: 34.501 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

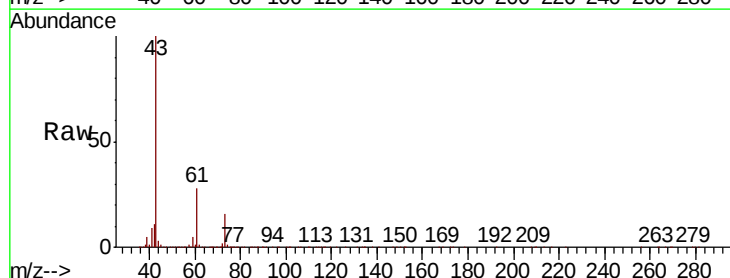
Tgt Ion: 41 Resp: 193993

Ion Ratio Lower Upper

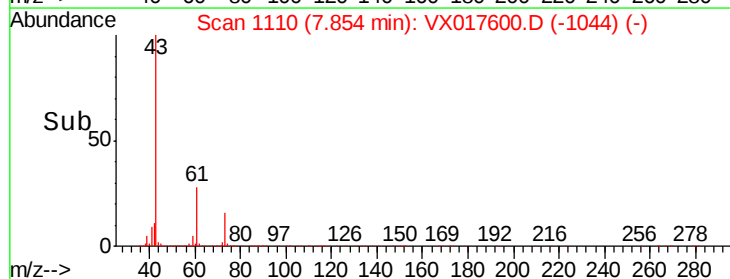
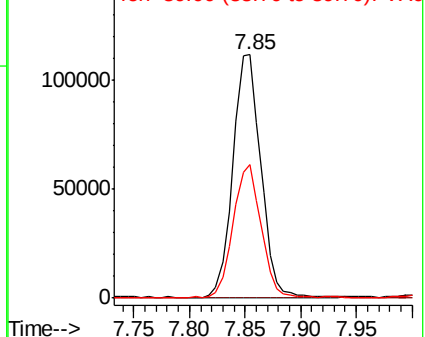
41 100

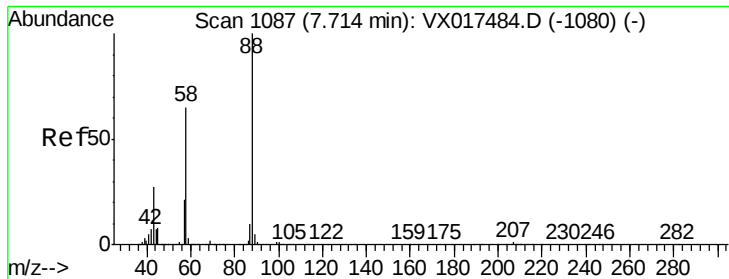
69 0.2 63.1 94.7#

39 54.4 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

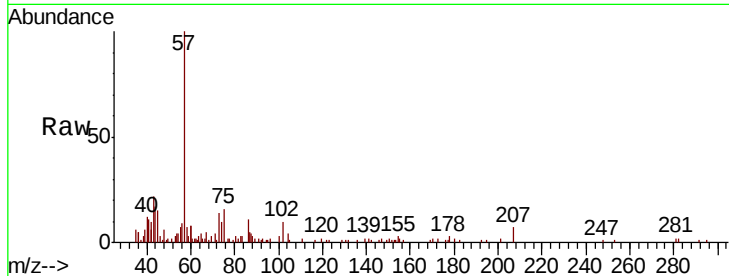




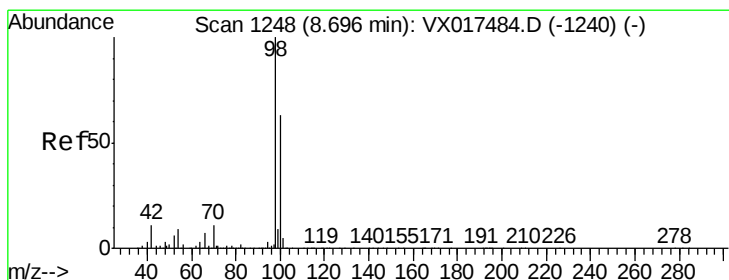
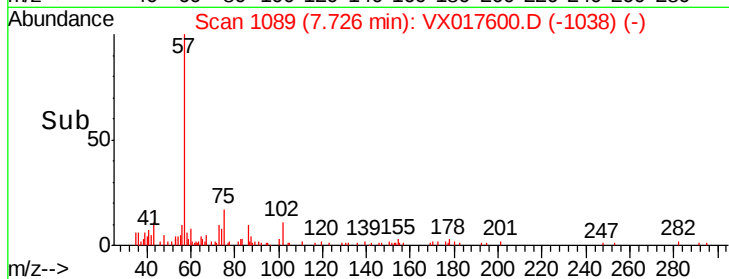
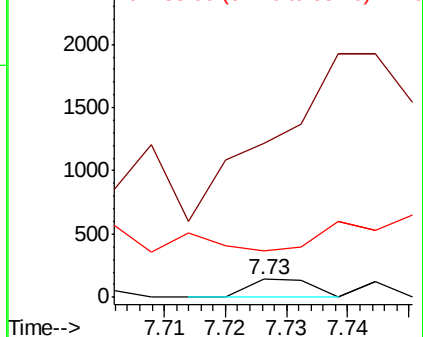
#49
1,4-Dioxane
Concen: 0.937 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 101
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 0.0 58.3 87.5#

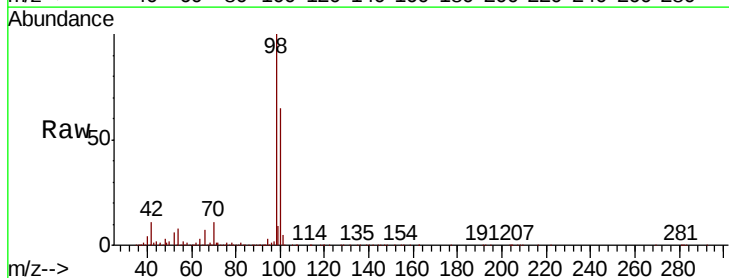


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

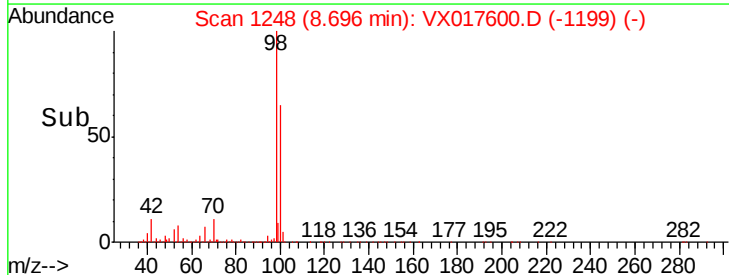
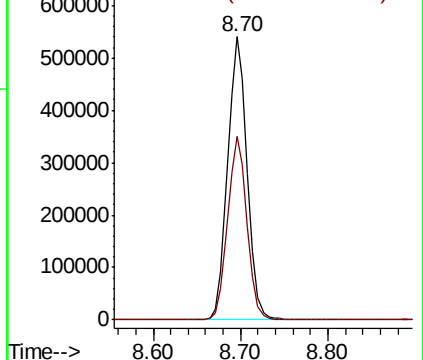


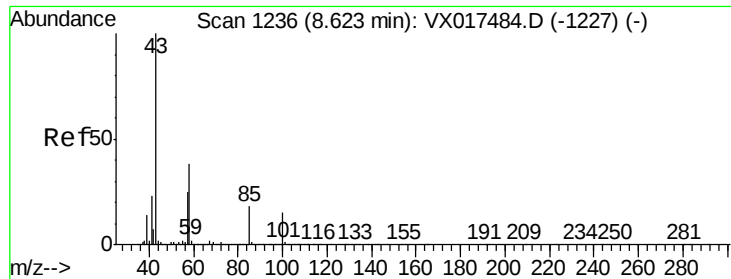
#50
Toluene-d8
Concen: 52.646 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion: 98 Resp: 832161
Ion Ratio Lower Upper
98 100
100 64.1 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: 18.753 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

Instrument :

MSVOA_X

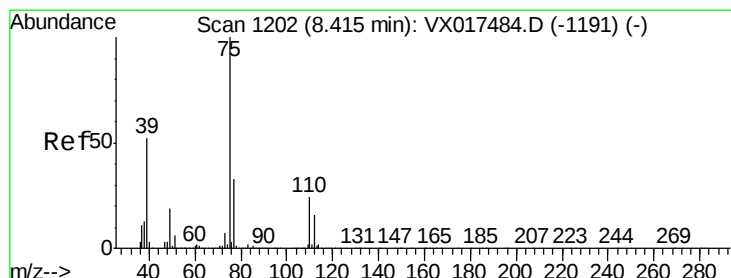
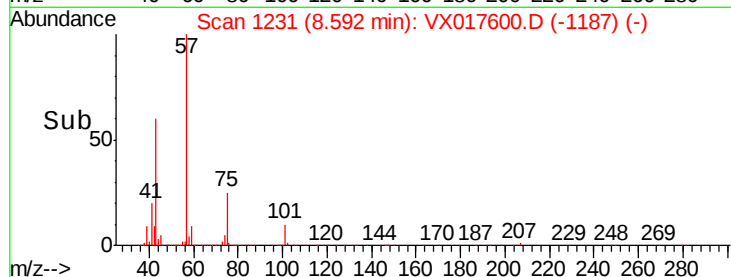
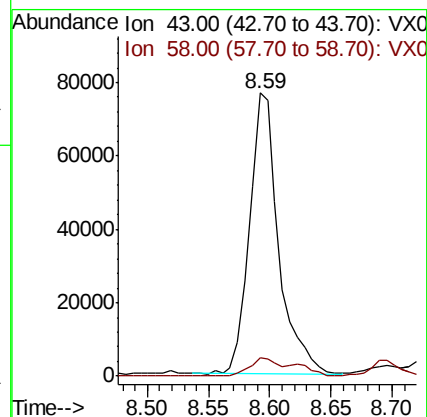
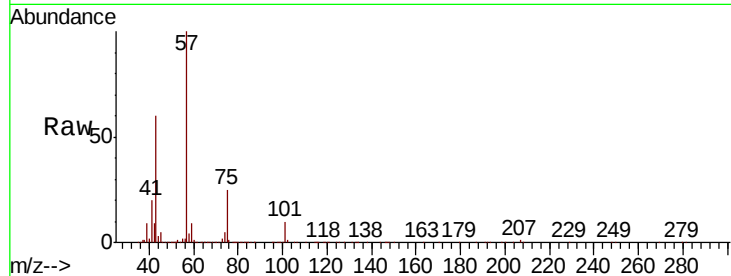
ClientSampleId :

Tot Ion: 43 Resp: 126923

Ion Ratio Lower Upper

43 100

58 9.6 31.0 46.4#



#54

cis-1,3-Dichloropropene

Concen: 6.376 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

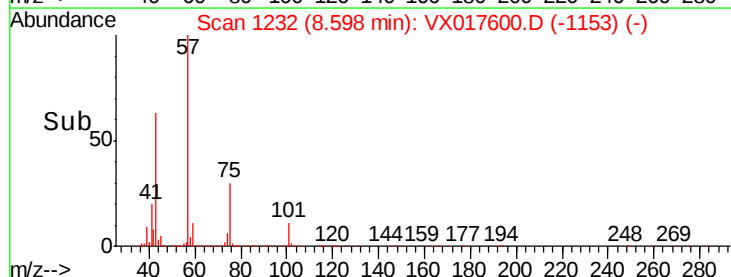
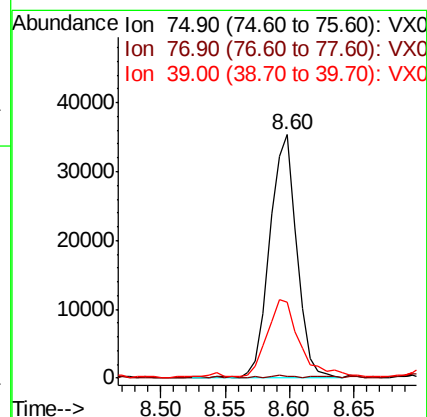
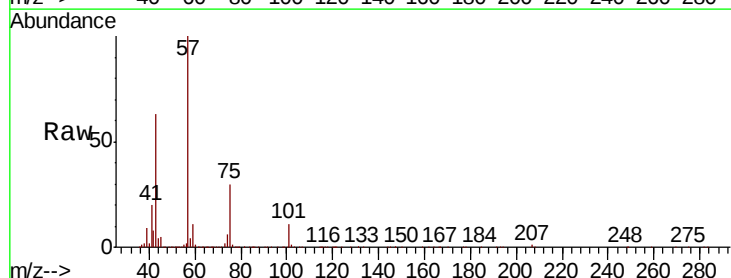
Tgt Ion: 75 Resp: 51700

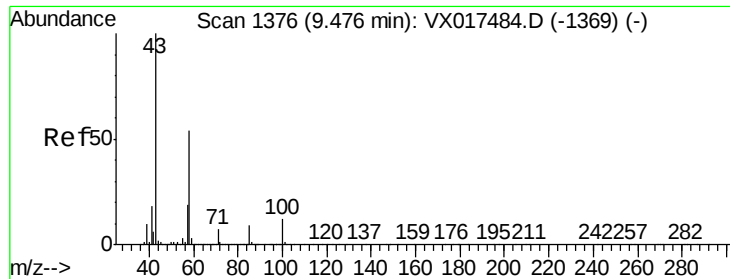
Ion Ratio Lower Upper

75 100

77 0.3 25.5 38.3#

39 30.8 41.8 62.8#

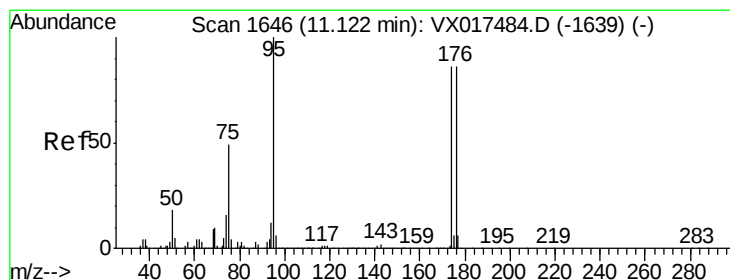
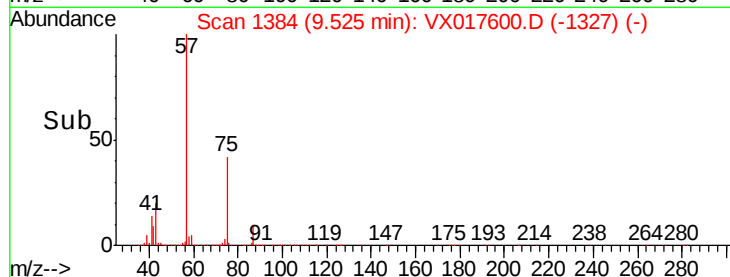
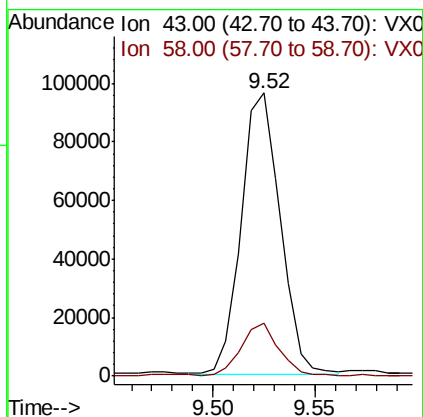
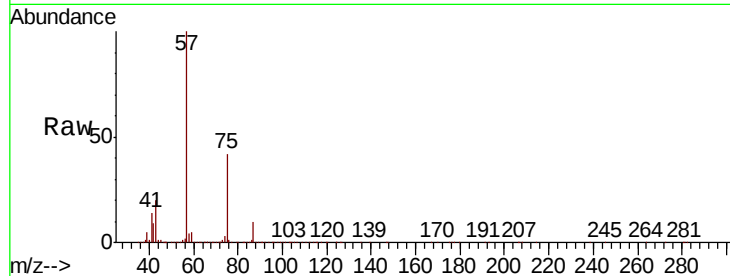




#59
2-Hexanone
Concen: 25.246 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

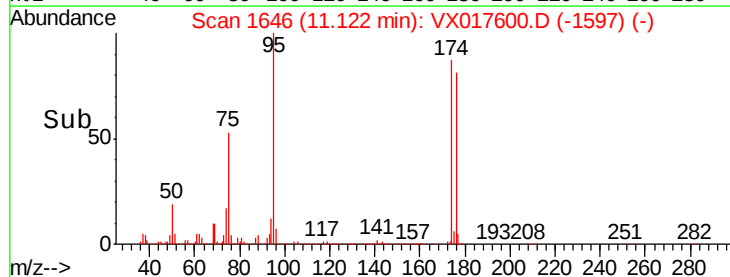
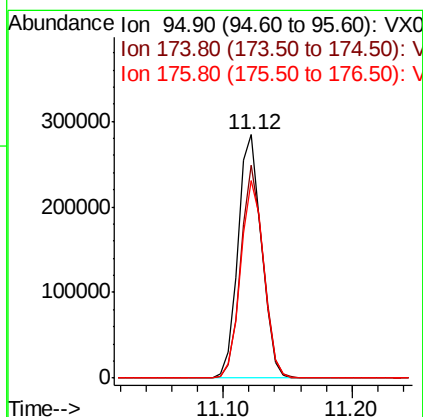
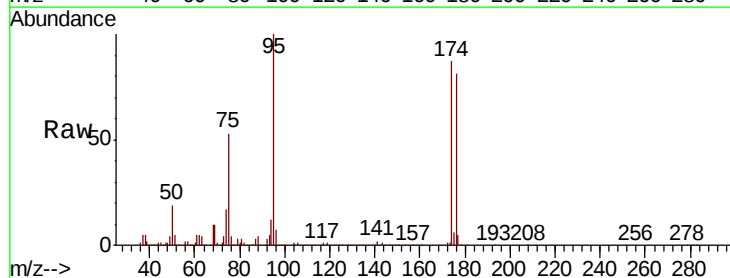
Instrument :
MSVOA_X
ClientSampled :

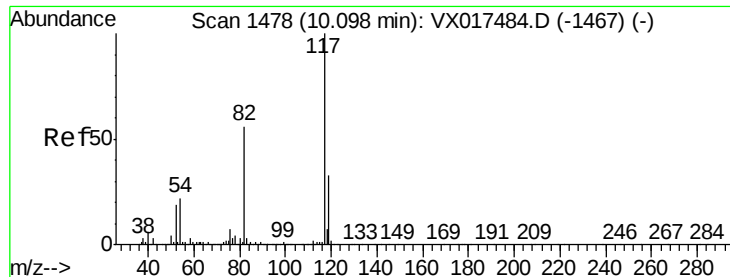
Tot Ion: 43 Resp: 128649
Ion Ratio Lower Upper
43 100
58 17.9 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 57.199 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion: 95 Resp: 361838
Ion Ratio Lower Upper
95 100
174 82.9 0.0 169.0
176 80.1 0.0 161.0

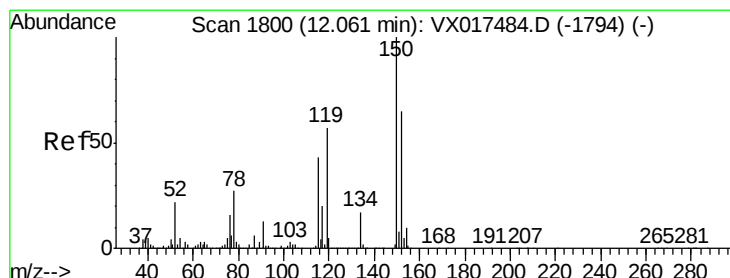
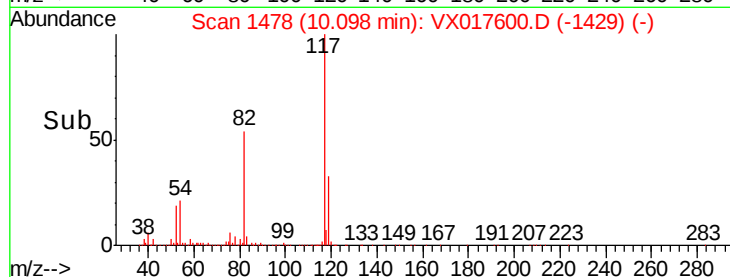
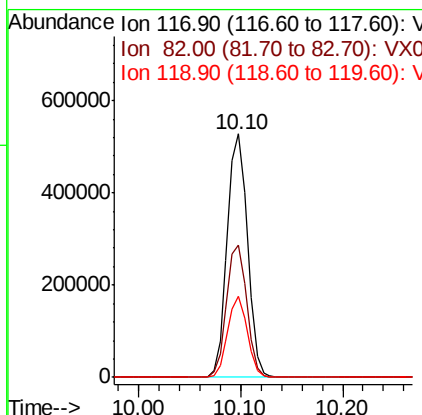
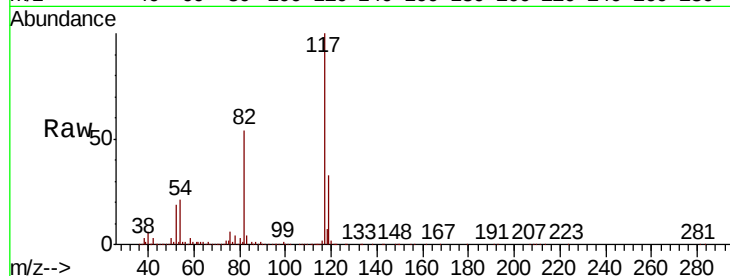




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

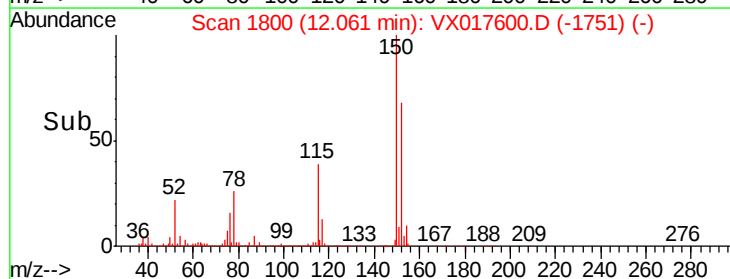
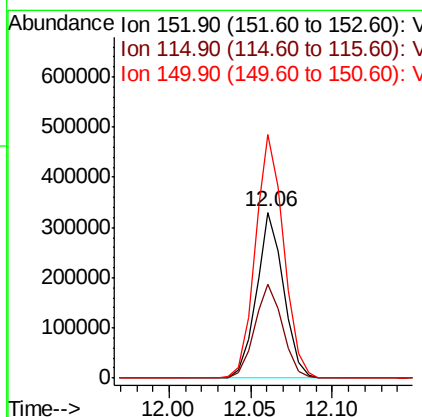
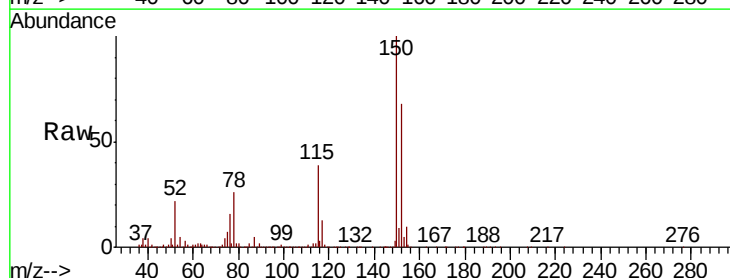
Instrument :
MSVOA_X
ClientSampleId :

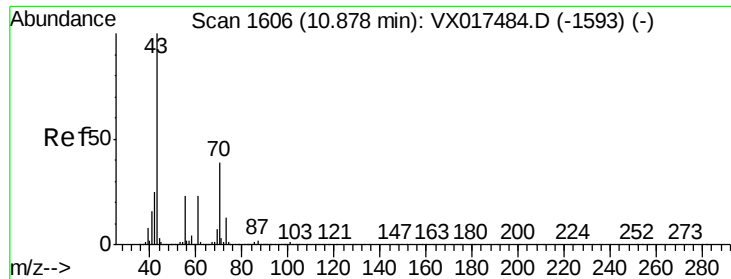
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	44.0	66.0
119	33.3	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017600.D
Acq: 25 Jul 2020 16:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.4	65.5	196.6#
150	153.6	0.0	412.6





#74

N-amvl acetate

Concen: 0.517 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 5960

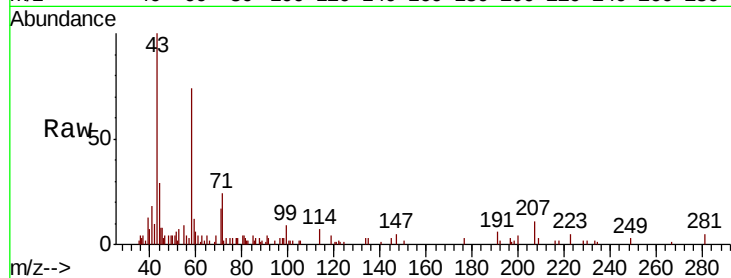
Ion Ratio Lower Upper

43 100

70 3.3 32.3 48.5#

55 10.5 18.4 27.6#

61 0.0 18.6 28.0#

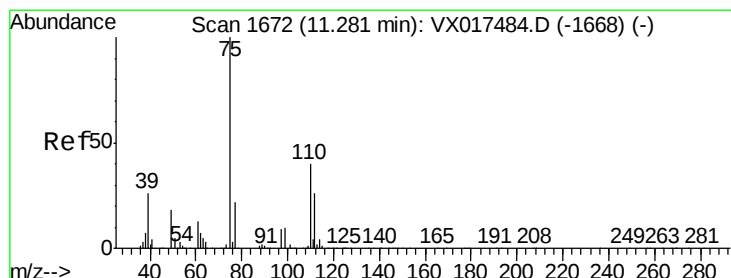
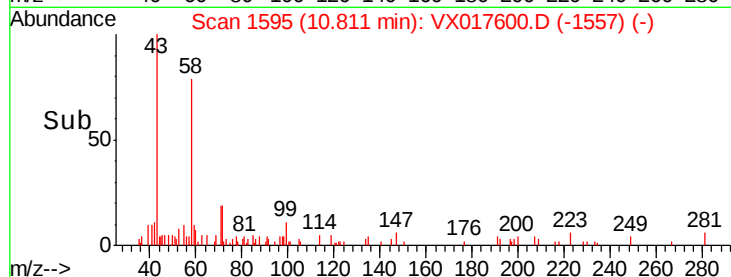
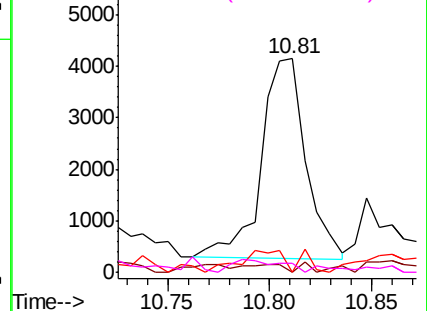


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.474 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017600.D

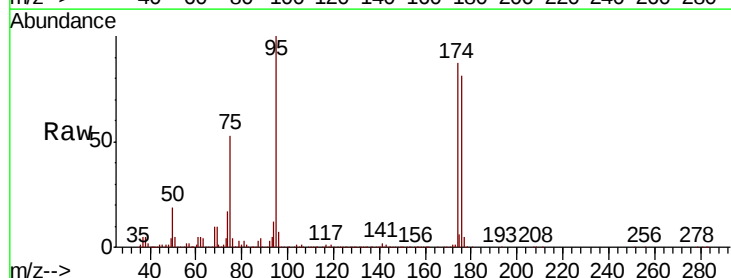
Acq: 25 Jul 2020 16:46

Tgt Ion: 75 Resp: 190508

Ion Ratio Lower Upper

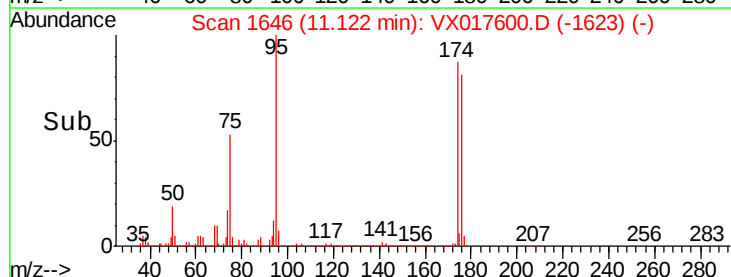
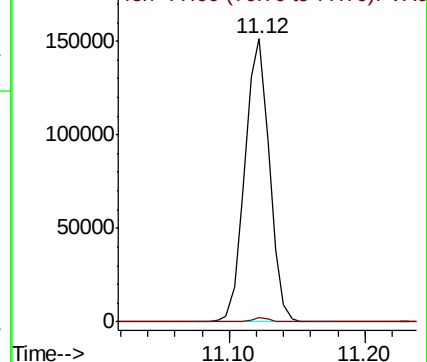
75 100

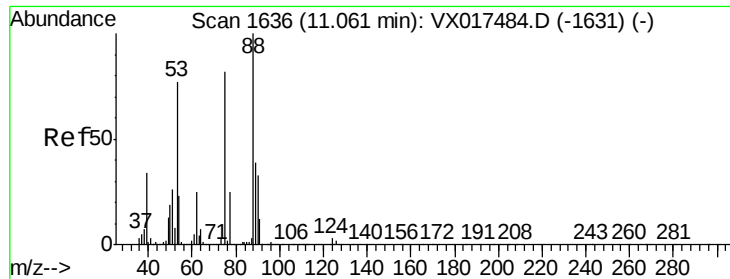
77 1.2 21.8 65.3#



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: 61.670 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

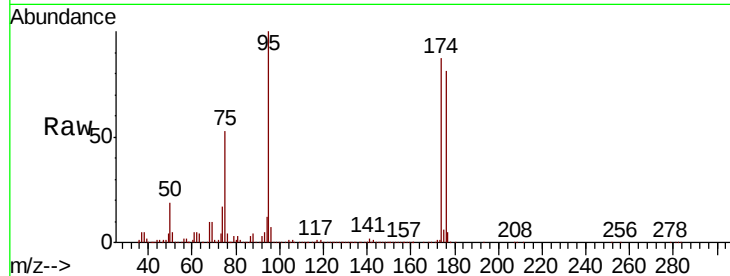
Tot Ion: 75 Resp: 190508

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

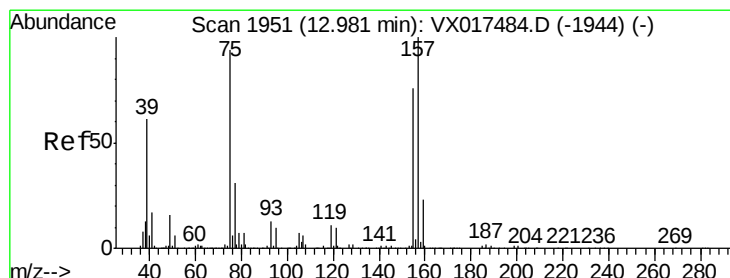
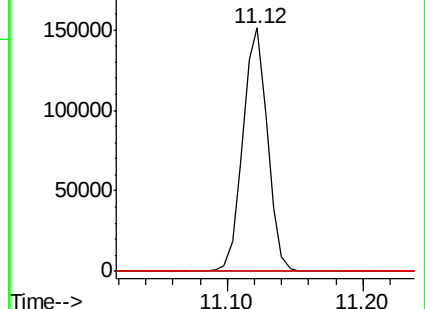
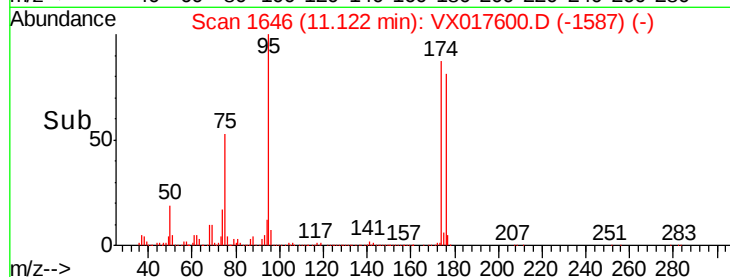
89 0.1 37.8 56.6#



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: 2.717 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VX017600.D

Acq: 25 Jul 2020 16:46

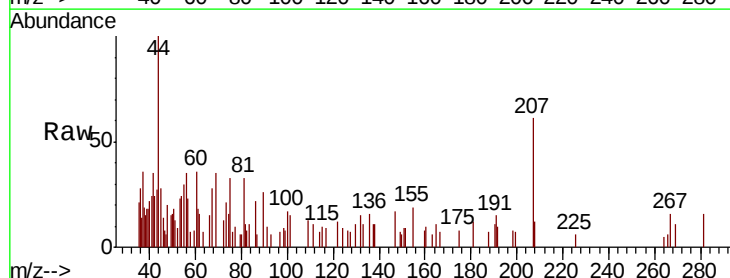
Tgt Ion: 75 Resp: 340

Ion Ratio Lower Upper

75 100

155 46.8 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

