

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017602.D
 Acq On : 25 Jul 2020 17:31
 Operator : JC/SP
 Sample : L3383-23
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:16:06 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	425367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	668320	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	728066	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	393475	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	297869	54.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.02%	
35) Dibromofluoromethane	5.47	113	252045	56.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.78%	
50) Toluene-d8	8.70	98	849033	52.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.30%	
62) 4-Bromofluorobenzene	11.12	95	375947	58.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.52%	

Target Compounds

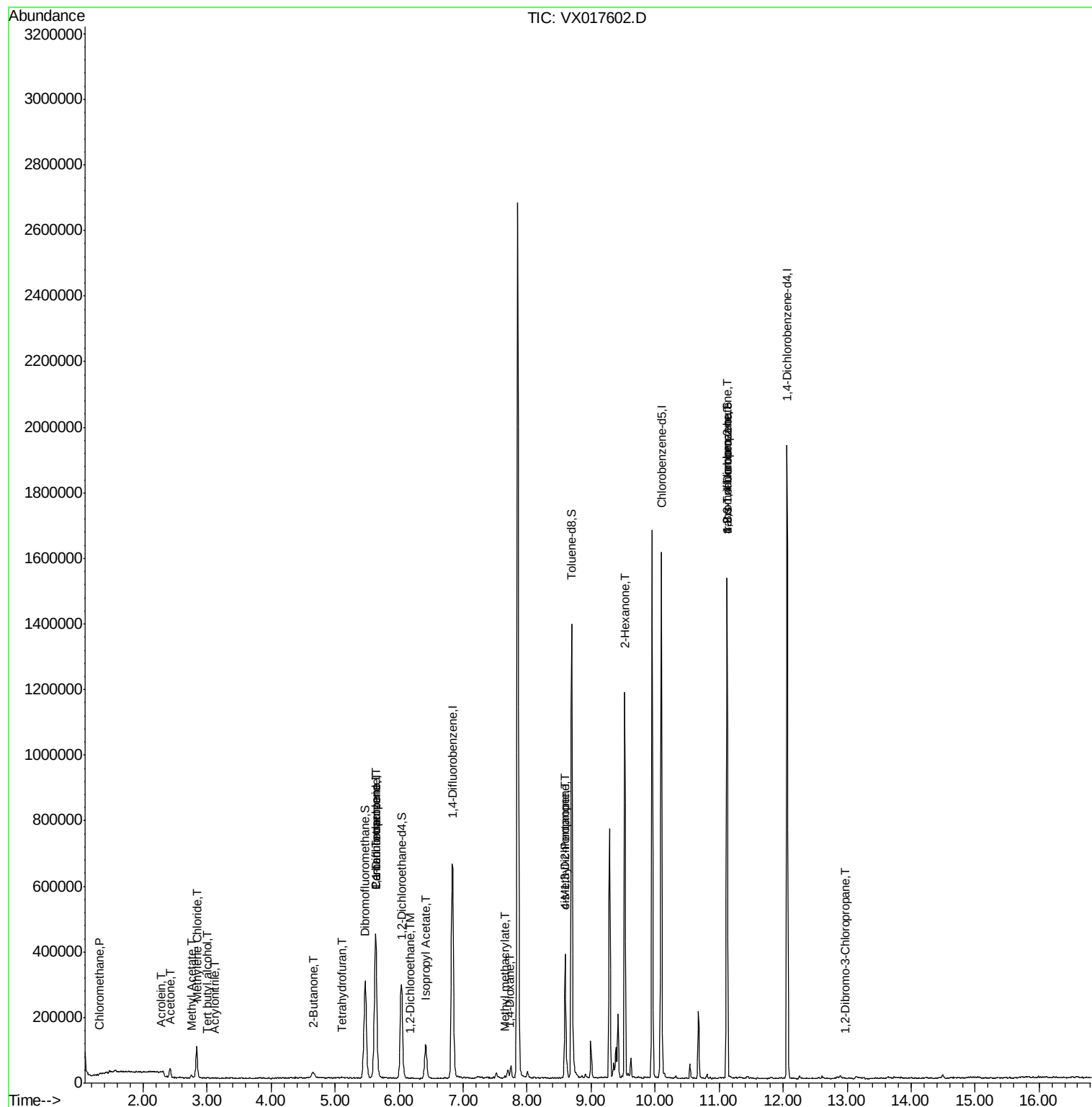
					Qvalue
2) Dichlorodifluoromethane	1.19	85	366	Below Cal	# 19
3) Chloromethane	1.31	50	746	0.508 ug/l	90
5) Bromomethane	1.64	94	489	Below Cal	# 67
6) Chloroethane	1.70	64	377	Below Cal	# 29
8) Diethyl Ether	2.17	74	1586	Below Cal	96
11) Tert butyl alcohol	3.01	59	2438	2.117 ug/l	# 87
13) Acrolein	2.28	56	622	4.844 ug/l	# 18
15) Acrylonitrile	3.12	53	612	0.246 ug/l	# 17
16) Acetone	2.42	43	28256	11.749 ug/l	# 88
18) Methyl Acetate	2.75	43	7366	1.301 ug/l	# 84
20) Methylene Chloride	2.84	84	42115	8.225 ug/l	97
25) 2-Butanone	4.66	43	7630	2.233 ug/l	97
29) Tetrahydrofuran	5.10	42	2762	1.305 ug/l	# 64
36) 1,1-Dichloropropene	5.64	75	32801	5.117 ug/l	# 48
38) Carbon Tetrachloride	5.63	117	43262	5.558 ug/l	# 18
42) 1,2-Dichloroethane	6.17	62	1661	0.221 ug/l	94
43) Isopropyl Acetate	6.42	43	143112	12.368 ug/l	98
48) Methyl methacrylate	7.65	41	7434	1.296 ug/l	# 17
49) 1,4-Dioxane	7.73	88	127	1.155 ug/l	# 22
51) 4-Methyl-2-Pentanone	8.59	43	138574	20.071 ug/l	# 53
54) cis-1,3-Dichloropropene	8.60	75	57993	7.011 ug/l	# 63
59) 2-Hexanone	9.52	43	139662	26.868 ug/l	# 52
76) 1,2,3-Trichloropropane	11.12	75	189983	23.472 ug/l	# 34
81) trans-1,4-Dichloro-2-buten	11.12	75	189983	59.145 ug/l	# 11
92) 1,2-Dibromo-3-Chloropropan	12.96	75	295	2.694 ug/l	# 36

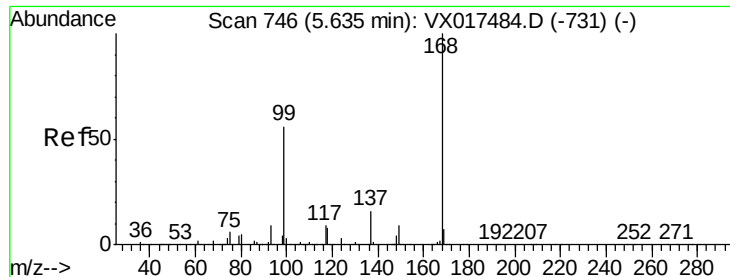
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017602.D

Acq: 25 Jul 2020 17:31

Instrument :

MSVOA_X

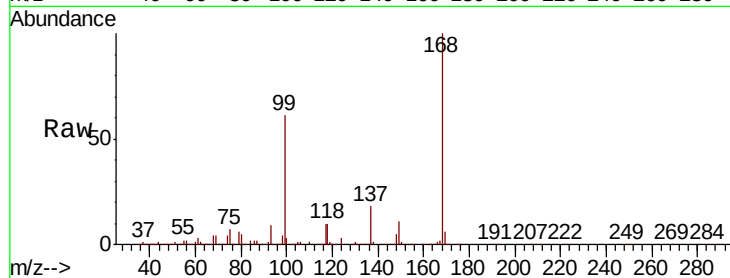
ClientSampleId :

Tot Ion:168 Resp: 425367

Ion Ratio Lower Upper

168 100

99 60.6 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

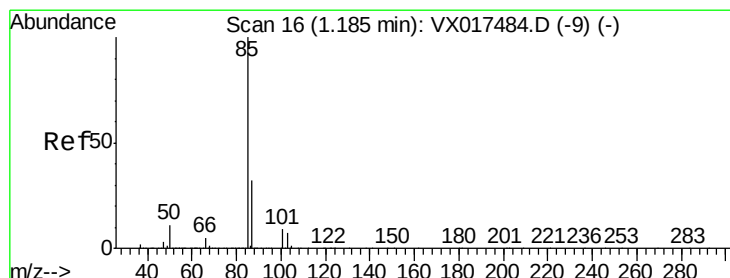
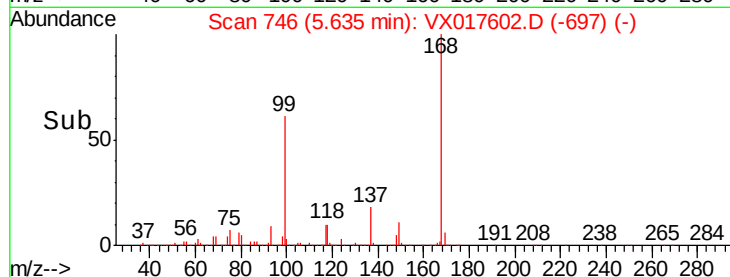
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017602.D

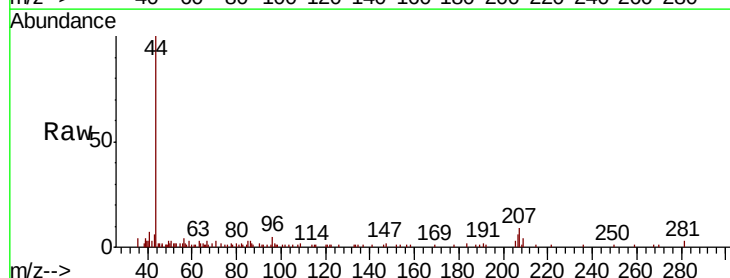
Acq: 25 Jul 2020 17:31

Tgt Ion: 85 Resp: 366

Ion Ratio Lower Upper

85 100

87 77.5 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

300

250

200

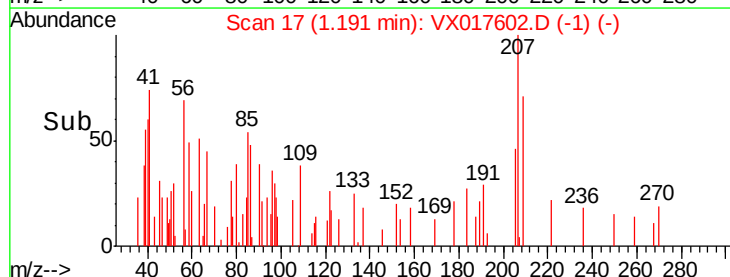
150

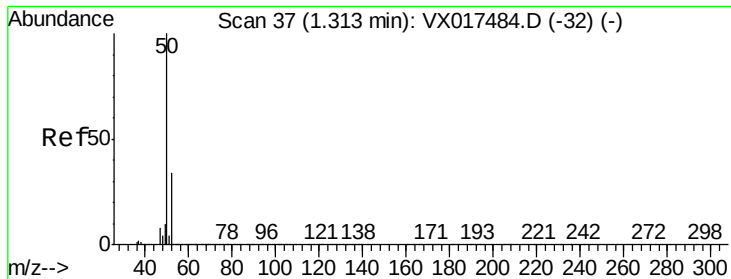
100

50

0

Time-->





#3

Chloromethane

Concen: 0.508 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

Instrument :

MSVOA_X

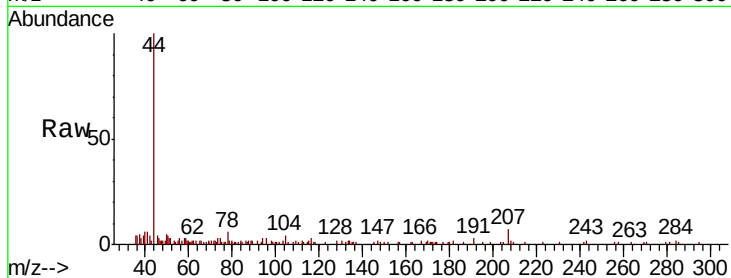
ClientSampleId :

Tot Ion: 50 Resp: 746

Ion Ratio Lower Upper

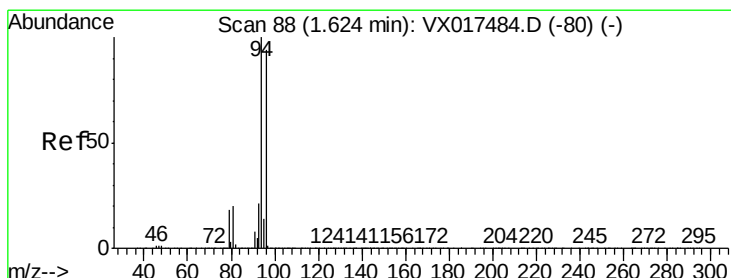
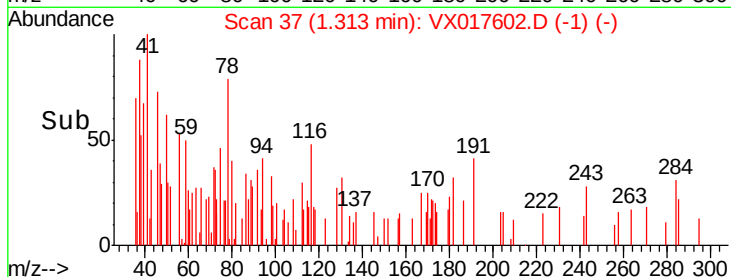
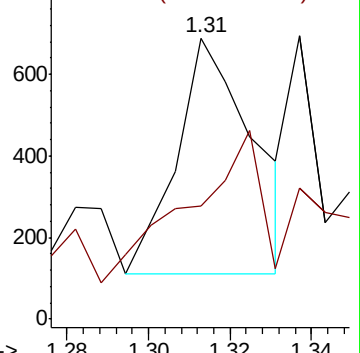
50 100

52 26.6 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: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017602.D

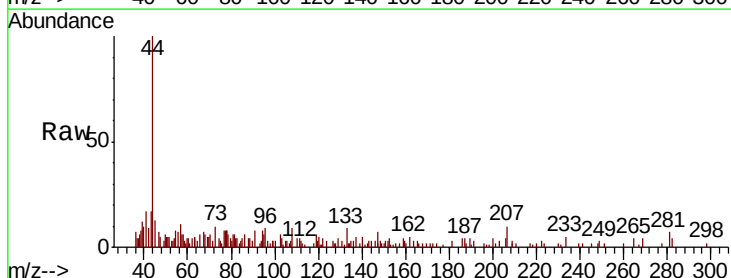
Acq: 25 Jul 2020 17:31

Tgt Ion: 94 Resp: 489

Ion Ratio Lower Upper

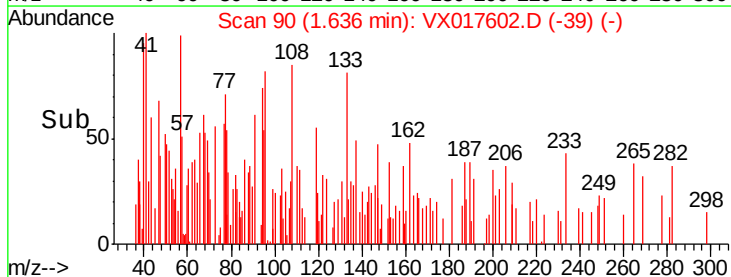
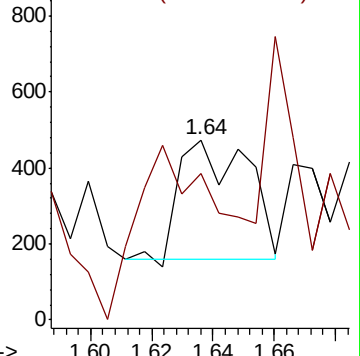
94 100

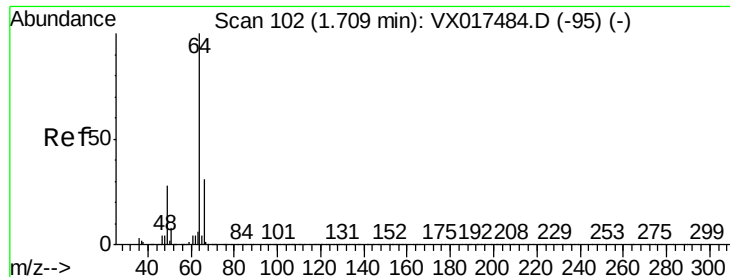
96 60.6 74.1 111.1#



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: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

Instrument :

MSVOA_X

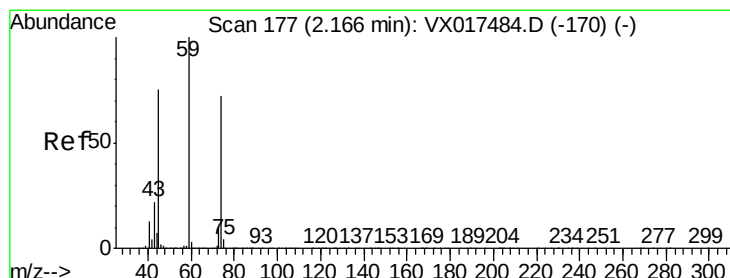
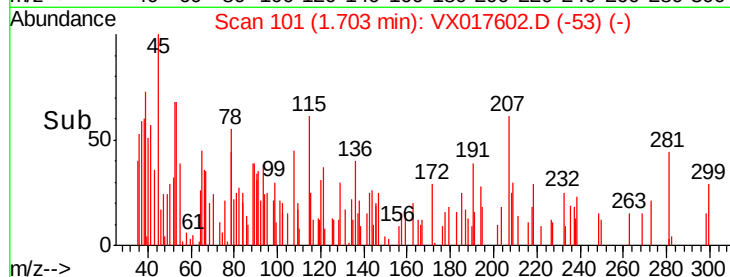
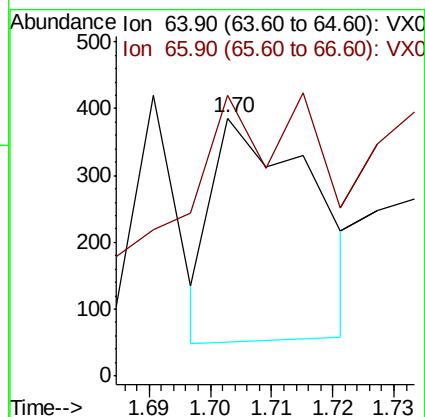
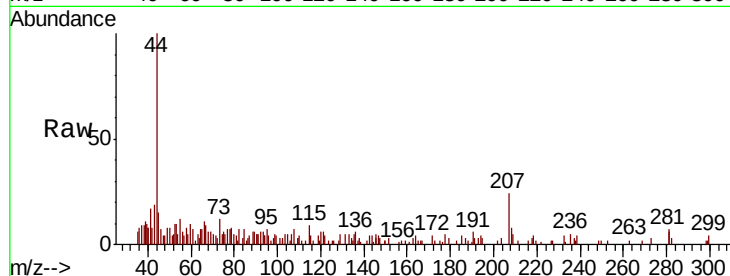
ClientSampled :

Tot Ion: 64 Resp: 377

Ion Ratio Lower Upper

64 100

66 70.1 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017602.D

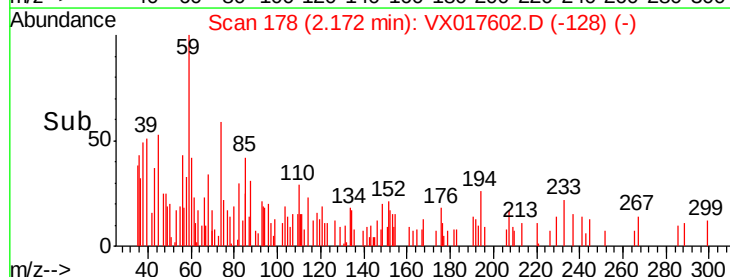
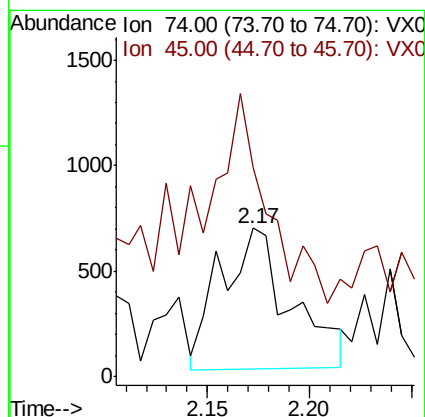
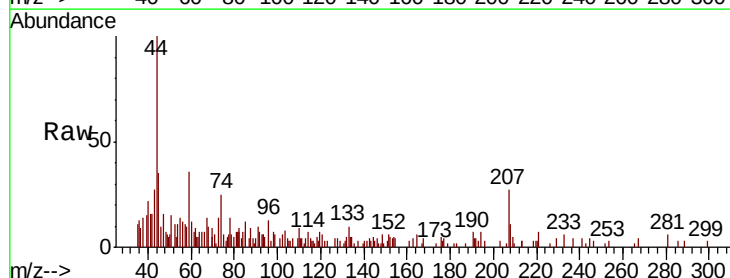
Acq: 25 Jul 2020 17:31

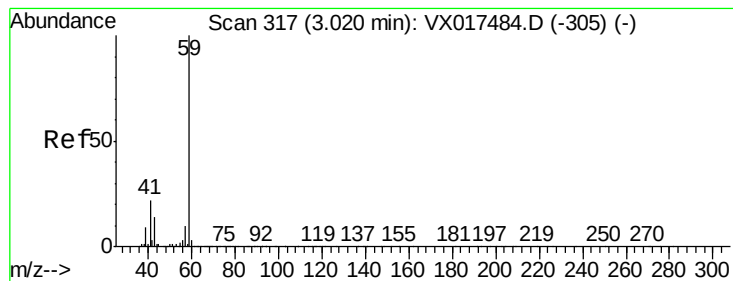
Tgt Ion: 74 Resp: 1586

Ion Ratio Lower Upper

74 100

45 97.5 50.8 152.5



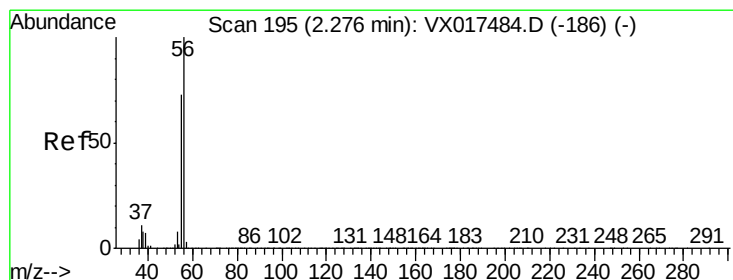
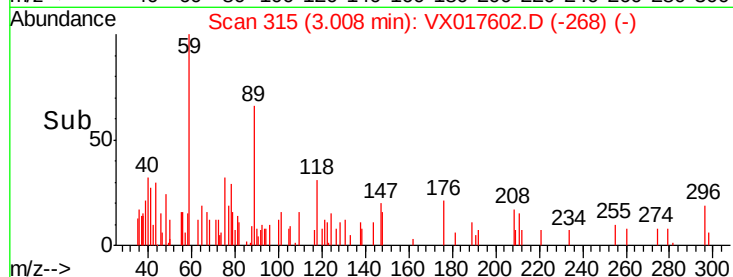
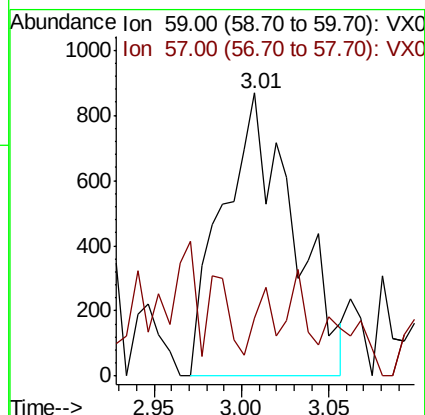
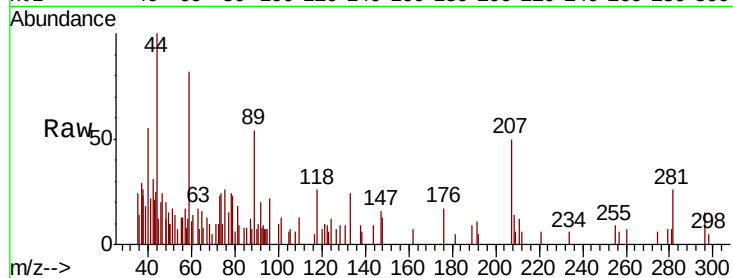


#11

Tert butyl alcohol
 Concen: 2.117 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Instrument :
 MSVOA_X
 ClientSampled :

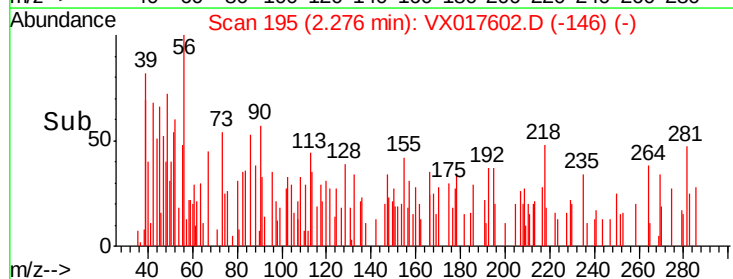
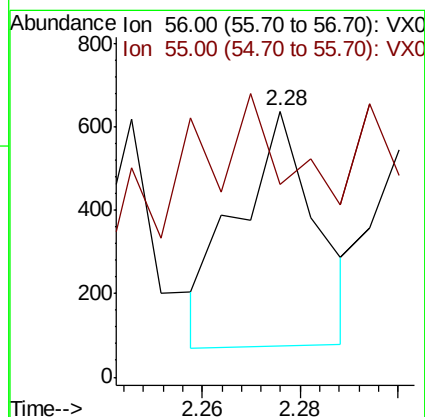
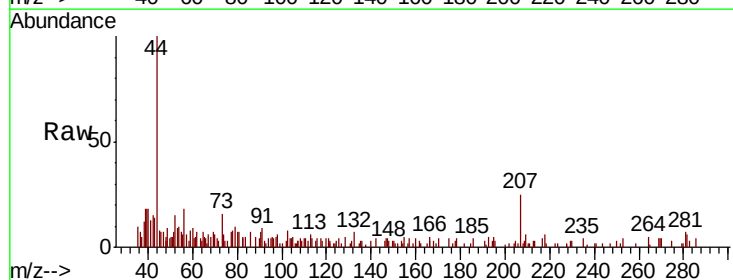
Tot Ion: 59 Resp: 2438
 Ion Ratio Lower Upper
 59 100
 57 5.7 8.6 12.8#

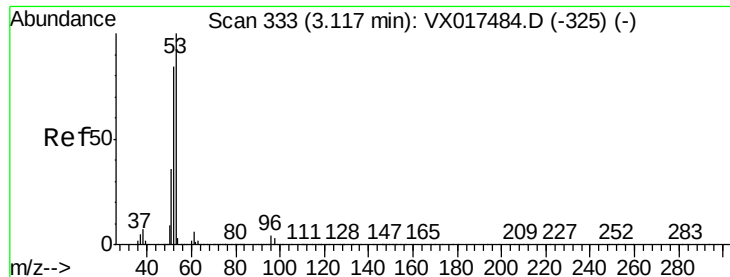


#13

Acrolein
 Concen: 4.844 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. -0.00 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Tgt Ion: 56 Resp: 622
 Ion Ratio Lower Upper
 56 100
 55 140.0 57.4 86.2#





#15

Acrylonitrile

Concen: 0.246 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

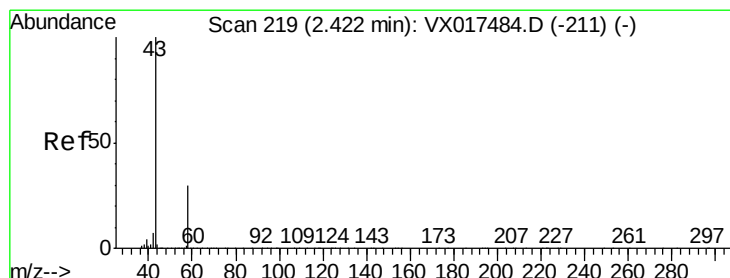
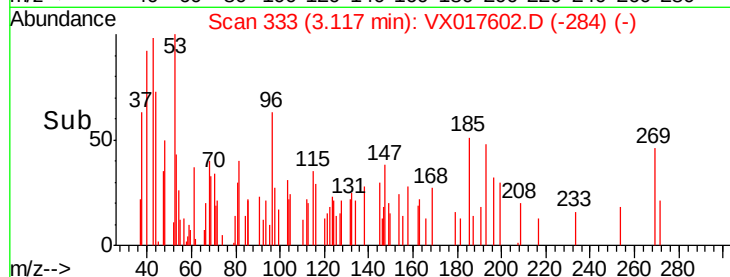
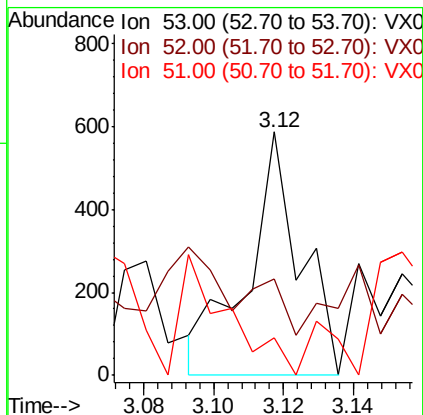
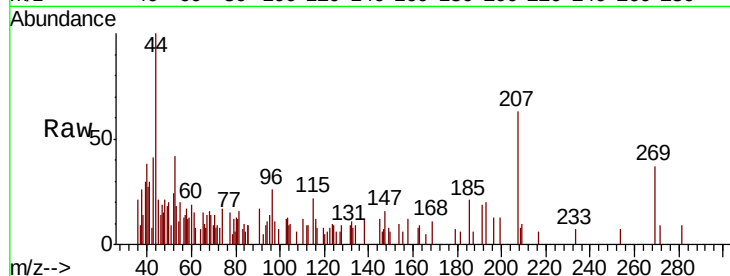
Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 53 Resp: 612

Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.6	99.8#
51	0.0	29.4	44.2#



#16

Acetone

Concen: 11.749 ug/l

RT: 2.42 min Scan# 219

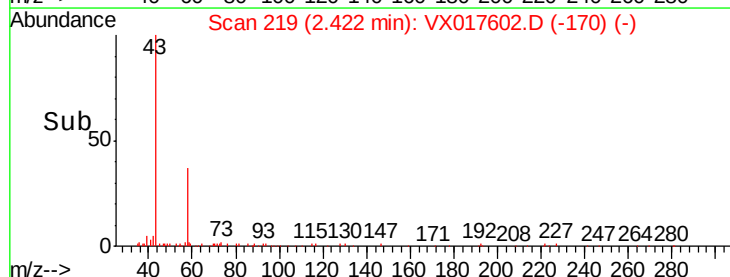
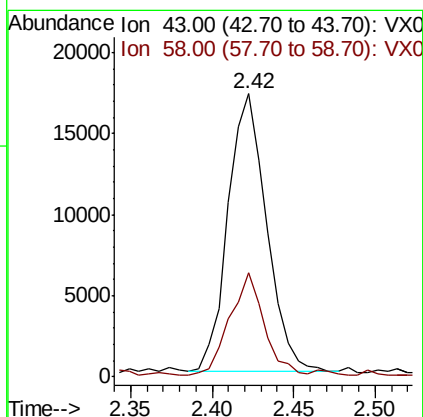
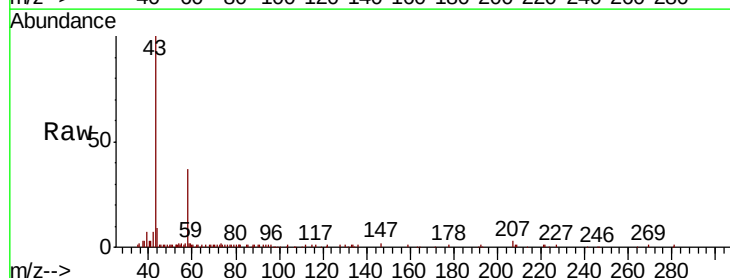
Delta R.T. -0.00 min

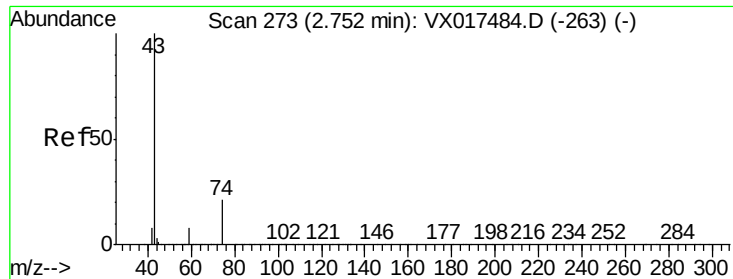
Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

Tgt Ion: 43 Resp: 28256

Ion	Ratio	Lower	Upper
43	100		
58	36.6	24.2	36.4#

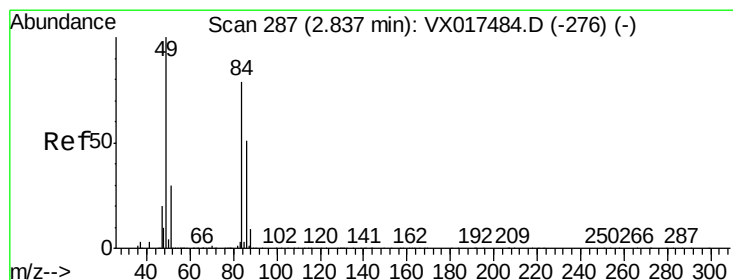
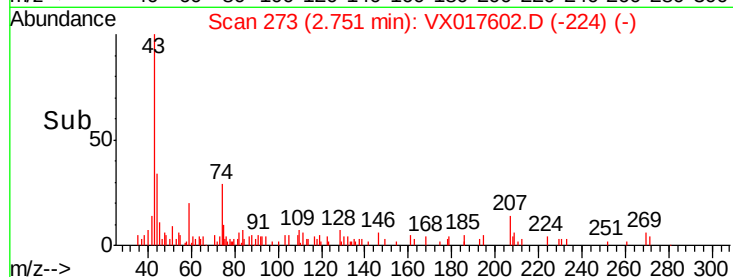
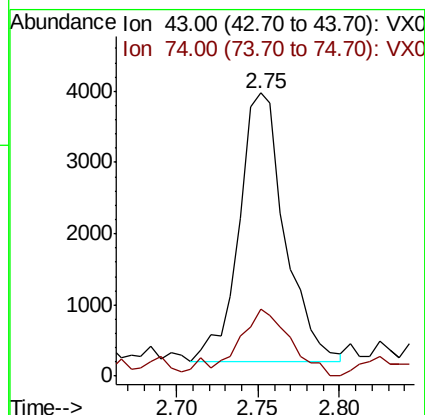
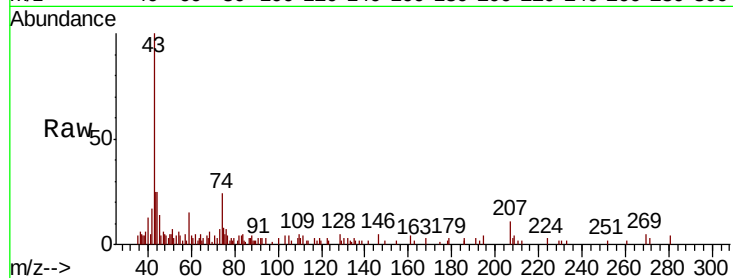




#18
Methyl Acetate
Concen: 1.301 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

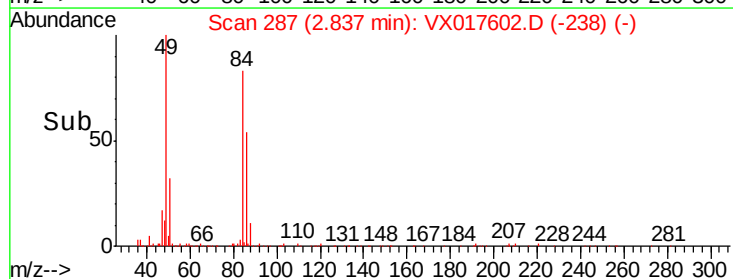
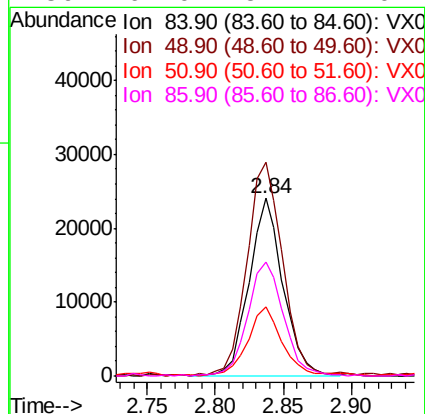
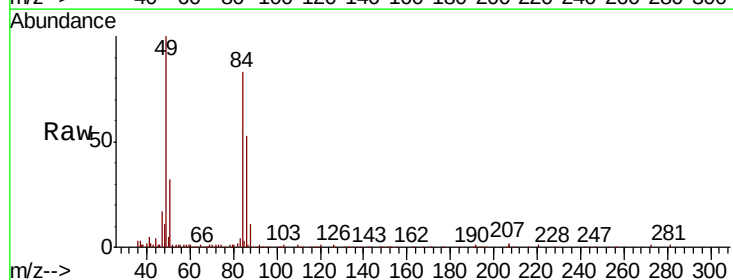
Instrument :
MSVOA_X
ClientSampleId :

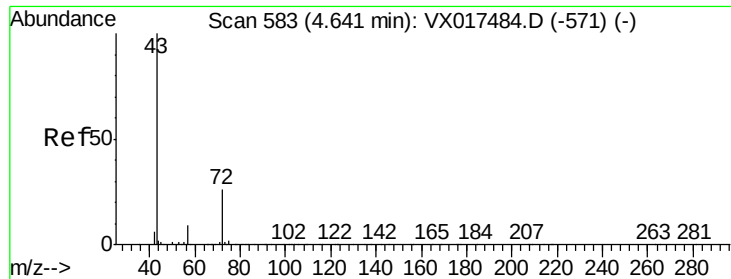
Tot Ion: 43 Resp: 7366
Ion Ratio Lower Upper
43 100
74 29.5 17.5 26.3#



#20
Methylene Chloride
Concen: 8.225 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

Tgt Ion: 84 Resp: 42115
Ion Ratio Lower Upper
84 100
49 120.1 100.3 150.5
51 38.0 30.5 45.7
86 64.0 51.1 76.7

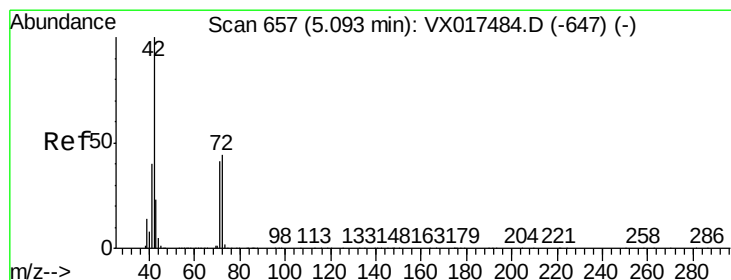
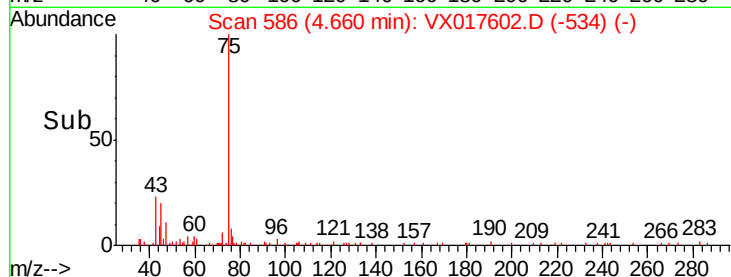
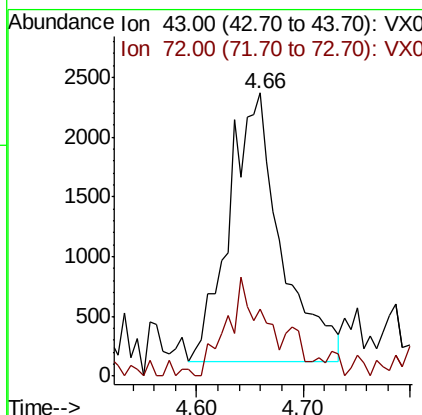
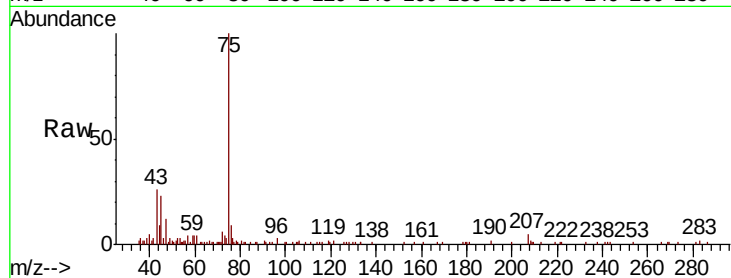




#25
2-Butanone
Concen: 2.233 ug/l
RT: 4.66 min Scan# 586
Delta R.T. 0.02 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

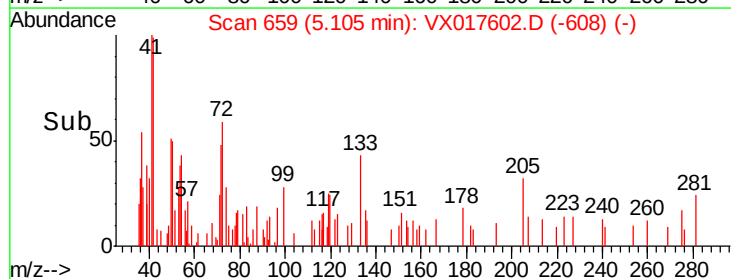
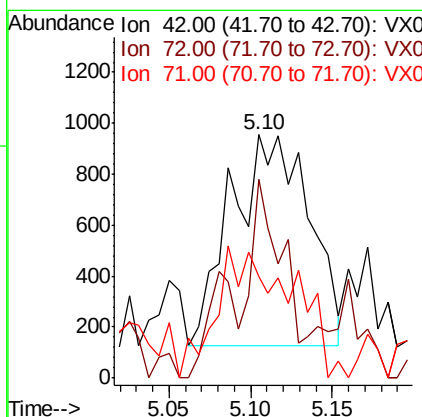
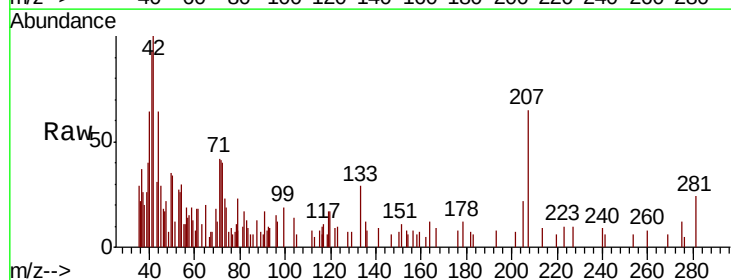
Instrument :
MSVOA_X
ClientSampled :

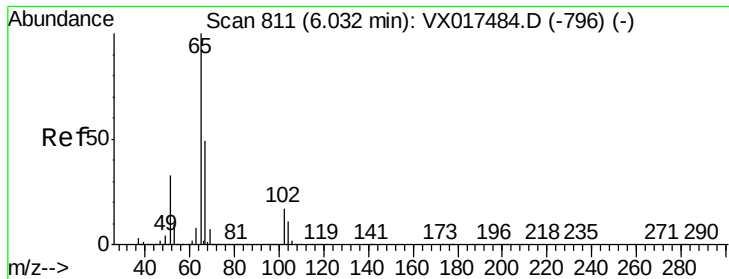
Tot Ion: 43 Resp: 7630
Ion Ratio Lower Upper
43 100
72 22.3 19.0 28.4



#29
Tetrahydrofuran
Concen: 1.305 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

Tgt Ion: 42 Resp: 2762
Ion Ratio Lower Upper
42 100
72 39.5 35.5 53.3
71 0.0 33.0 49.4#

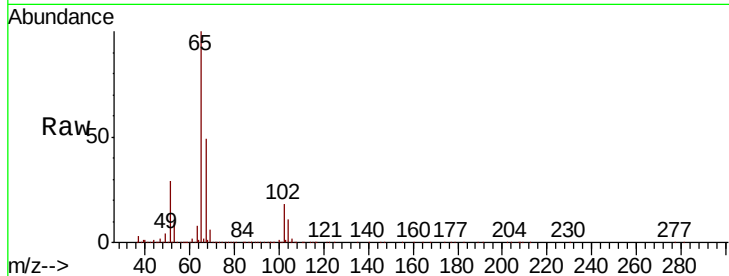




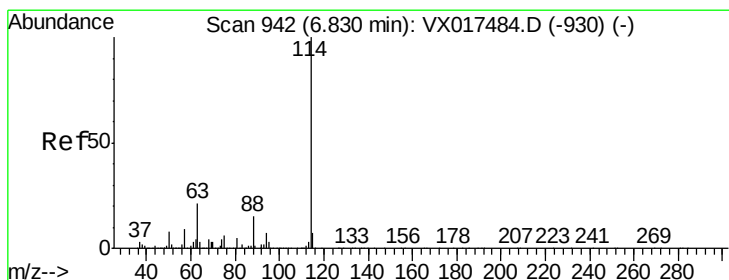
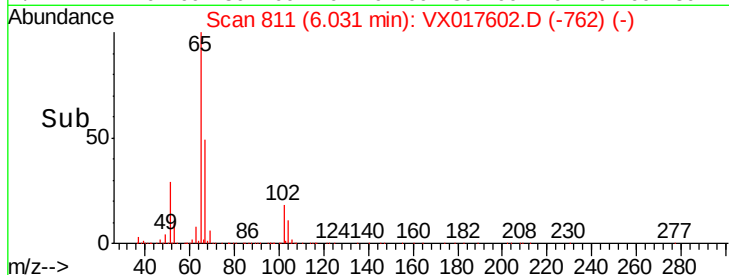
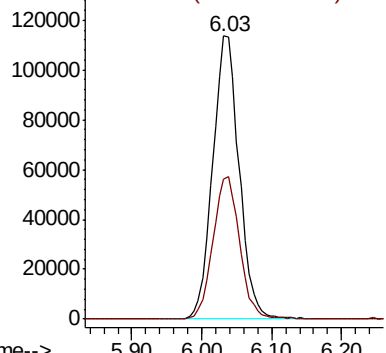
#33
 1,2-Dichloroethane-d4
 Concen: 54.515 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 65 Resp: 297869
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 102.8

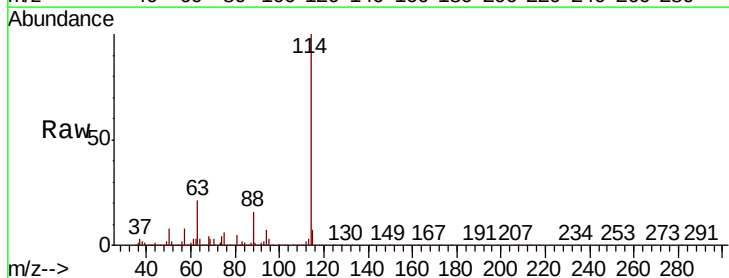


Abundance Ion 64.90 (64.60 to 65.60): VX0
 Ion 66.90 (66.60 to 67.60): VX0

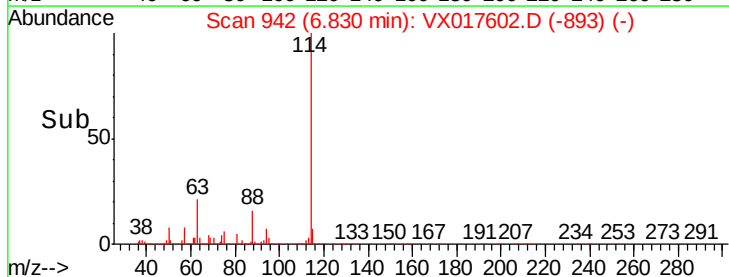
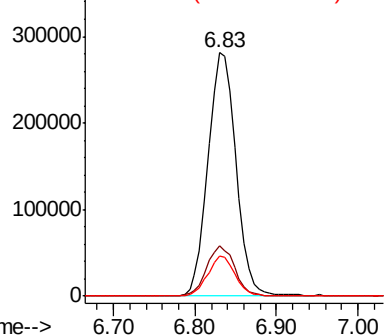


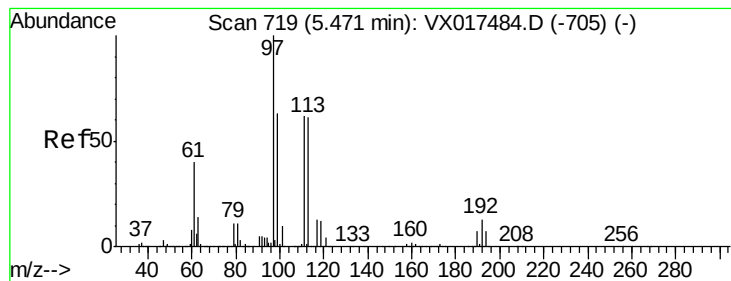
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Tgt Ion: 114 Resp: 668320
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.6
 88 16.2 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: 56.389 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

Instrument :

MSVOA_X

ClientSampleId :

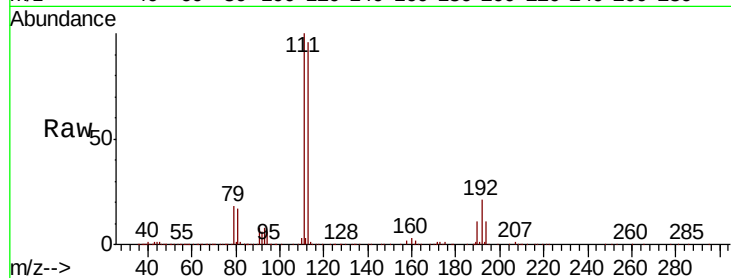
Tot Ion:113 Resp: 252045

Ion Ratio Lower Upper

113 100

111 102.3 80.7 121.1

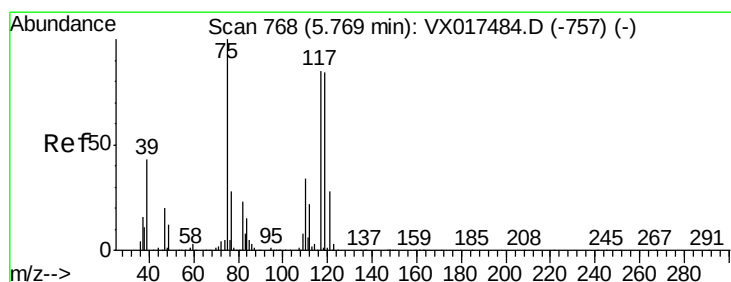
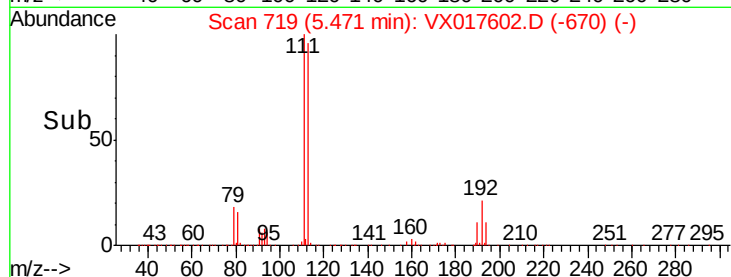
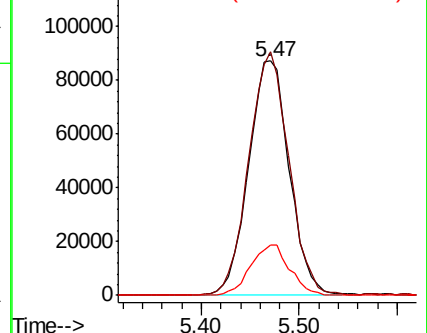
192 20.8 16.9 25.3



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: 5.117 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

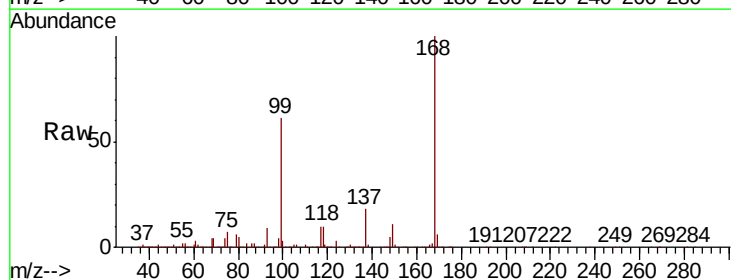
Tgt Ion: 75 Resp: 32801

Ion Ratio Lower Upper

75 100

110 6.6 18.1 54.3#

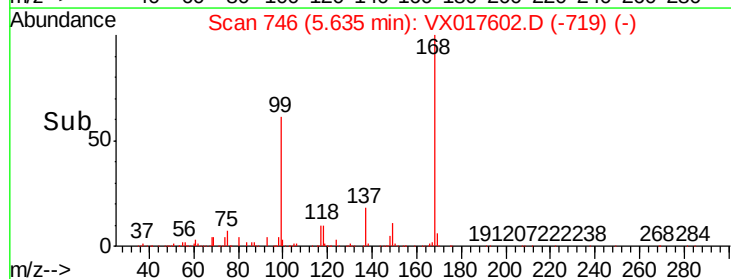
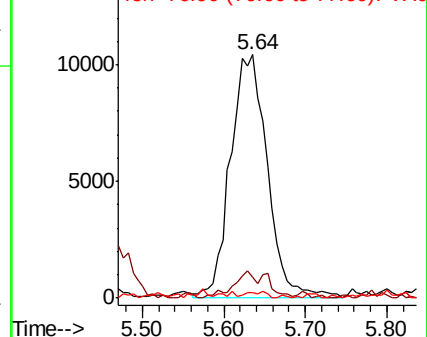
77 1.4 24.6 37.0#

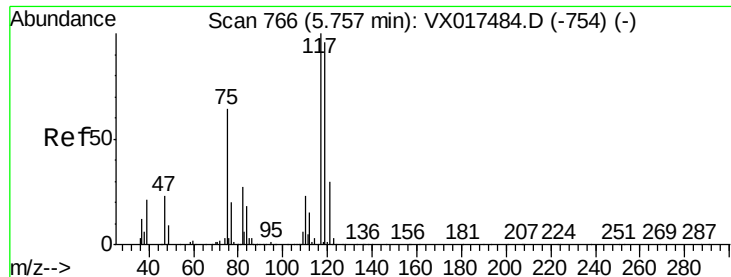


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.558 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

Instrument :

MSVOA_X

ClientSampleId :

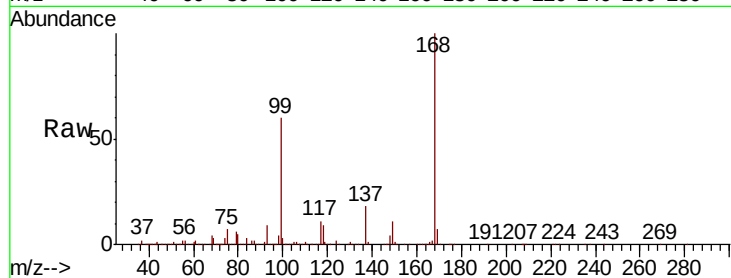
Tot Ion:117 Resp: 43262

Ion Ratio Lower Upper

117 100

119 6.2 75.4 113.0#

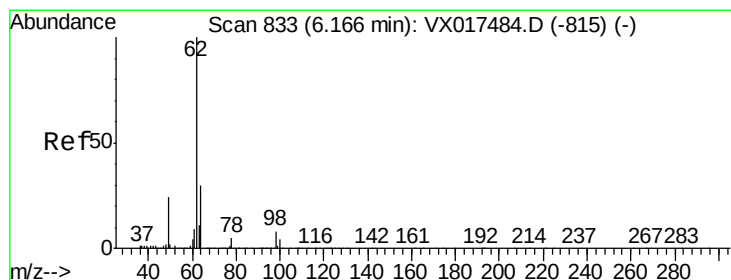
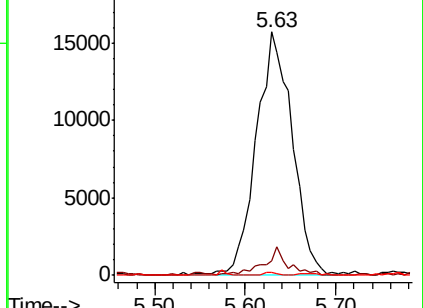
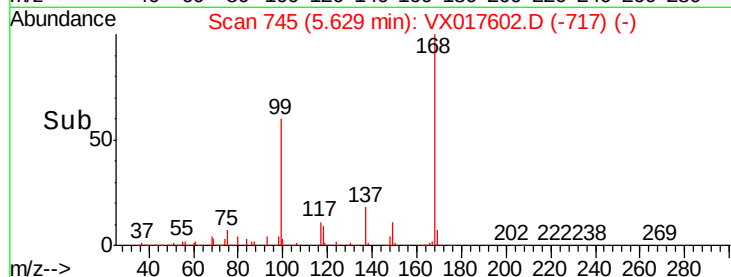
121 1.2 24.3 36.5#



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



#42

1,2-Dichloroethane

Concen: 0.221 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX017602.D

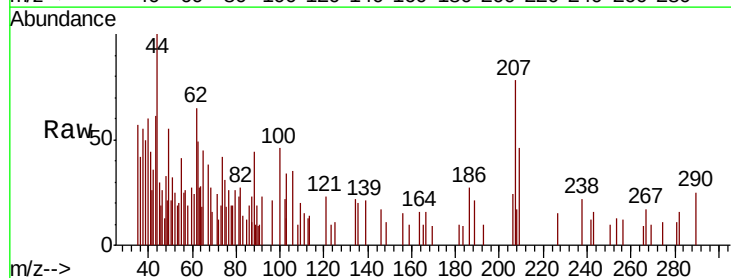
Acq: 25 Jul 2020 17:31

Tgt Ion: 62 Resp: 1661

Ion Ratio Lower Upper

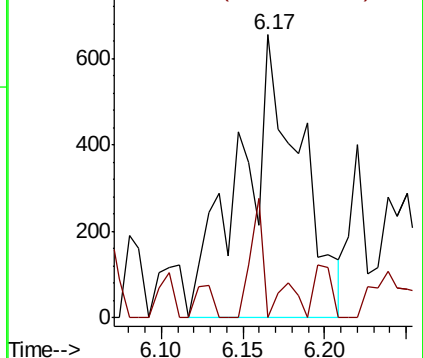
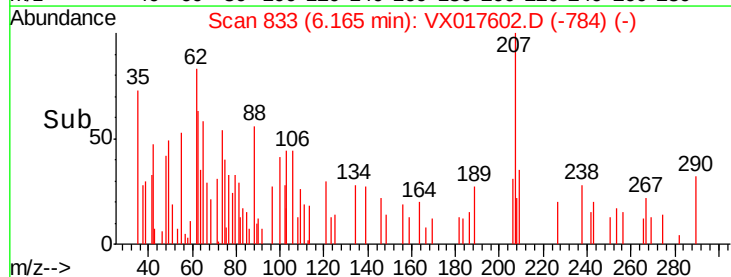
62 100

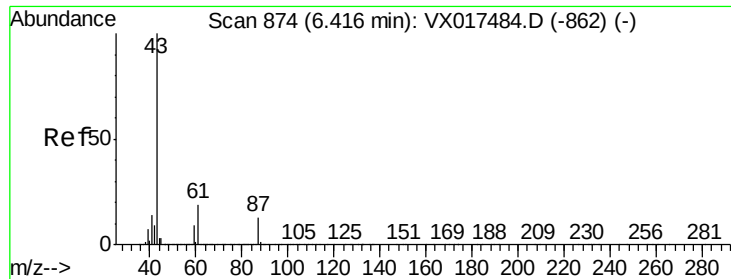
98 10.0 0.0 16.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



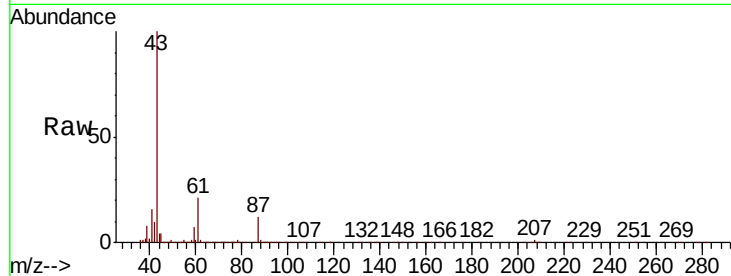


#43

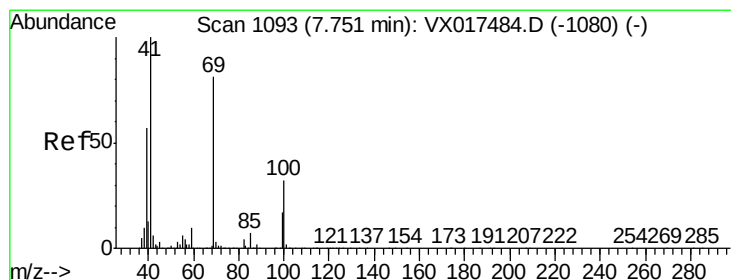
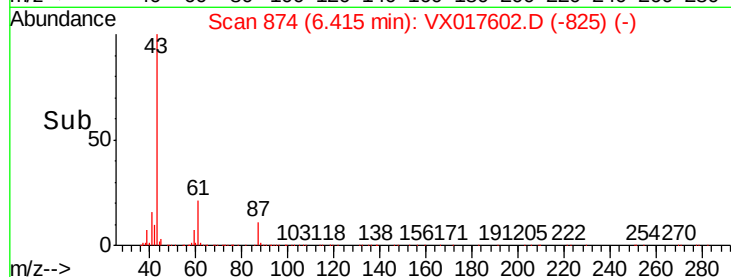
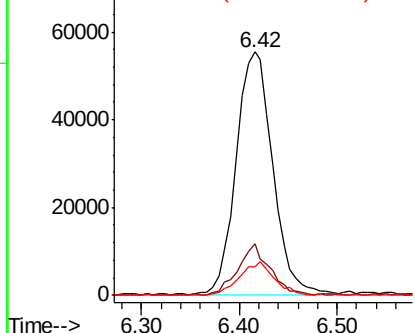
Isopropyl Acetate
 Concen: 12.368 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.0	15.5	23.3
87	13.3	10.5	15.7



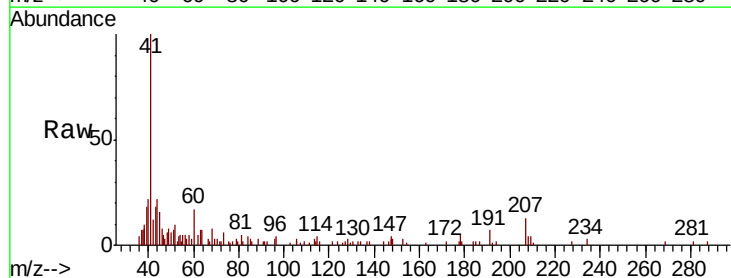
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



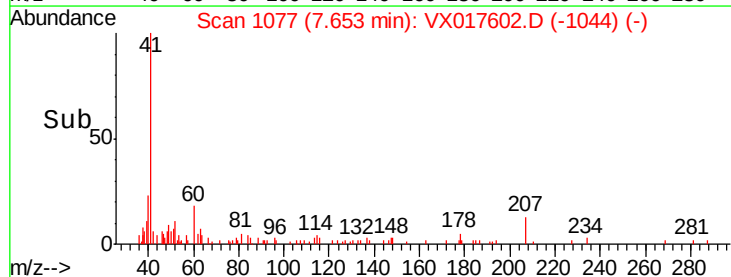
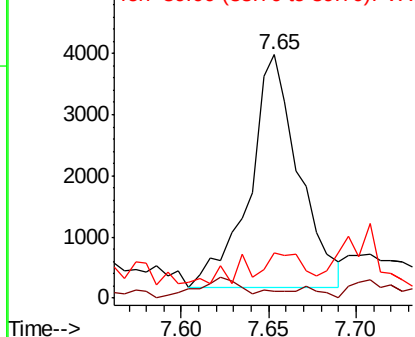
#48

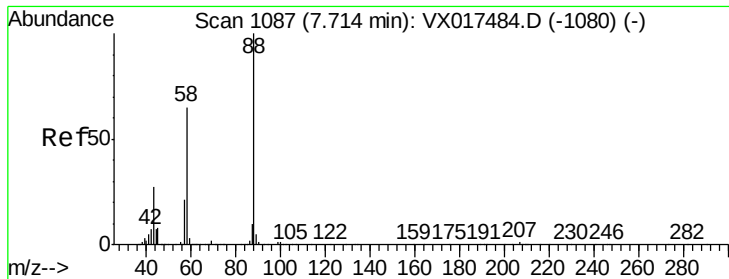
Methyl methacrylate
 Concen: 1.296 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.10 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Tgt Ion	Ratio	Lower	Upper
41	100		
69	2.6	63.1	94.7#
39	0.0	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: 1.155 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

Instrument :

MSVOA_X

ClientSampleId :

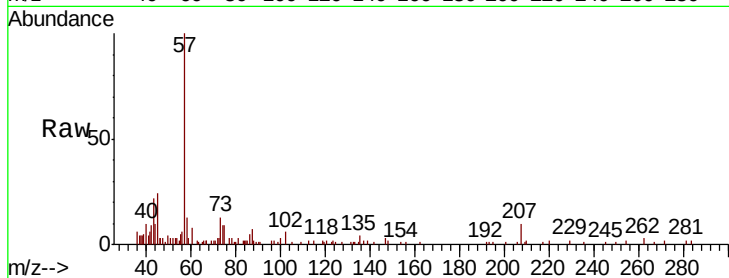
Tot Ion: 88 Resp: 127

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

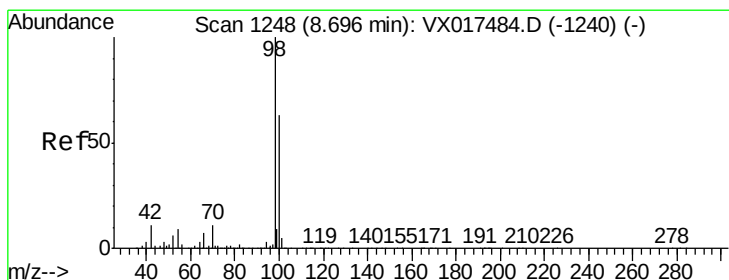
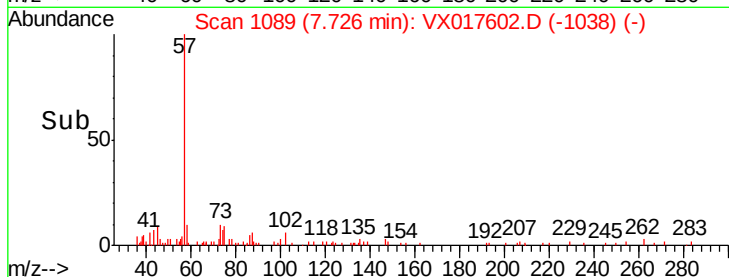
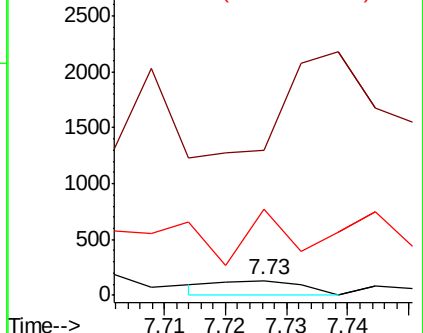
58 0.0 58.3 87.5#



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: 52.655 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017602.D

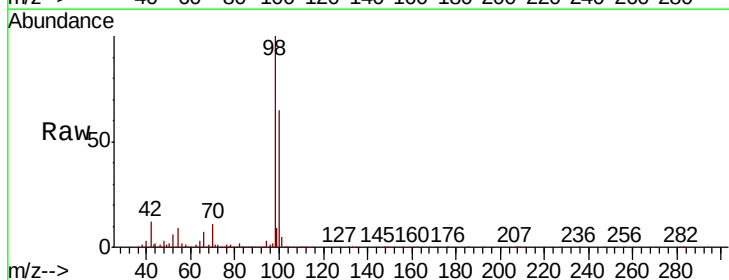
Acq: 25 Jul 2020 17:31

Tgt Ion: 98 Resp: 849033

Ion Ratio Lower Upper

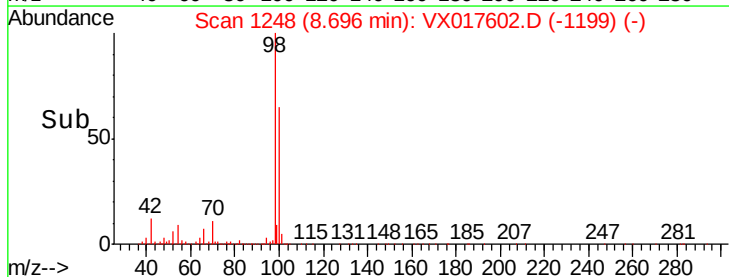
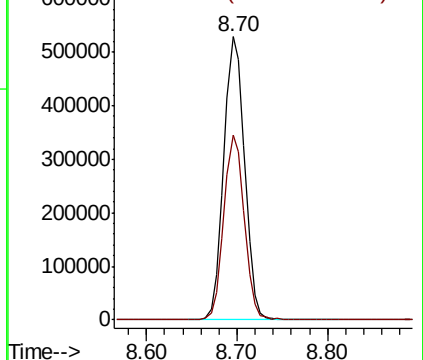
98 100

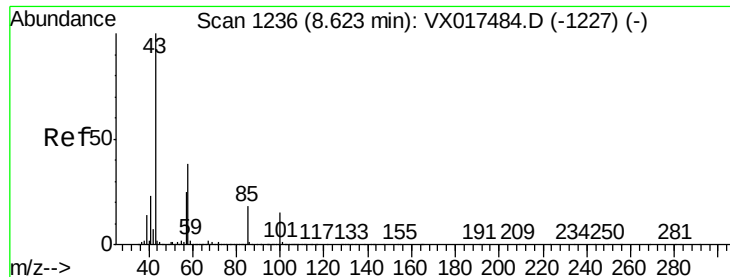
100 64.3 52.3 78.5



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: 20.071 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

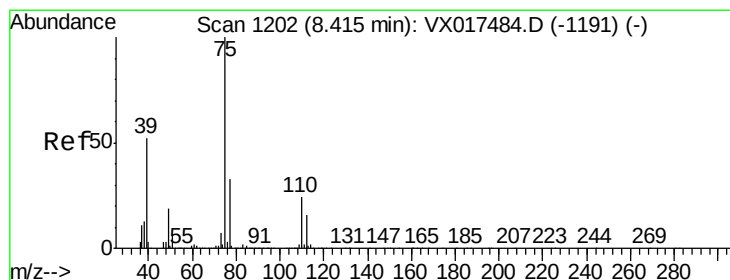
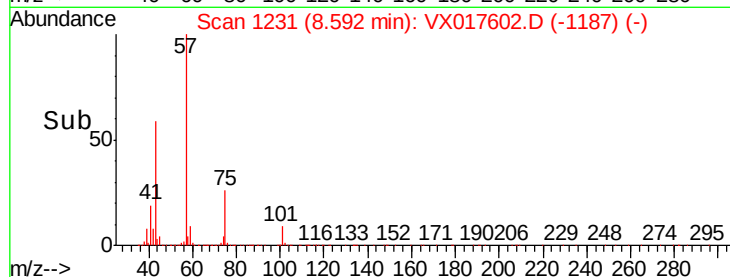
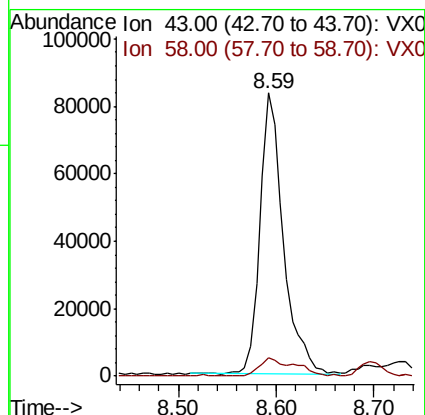
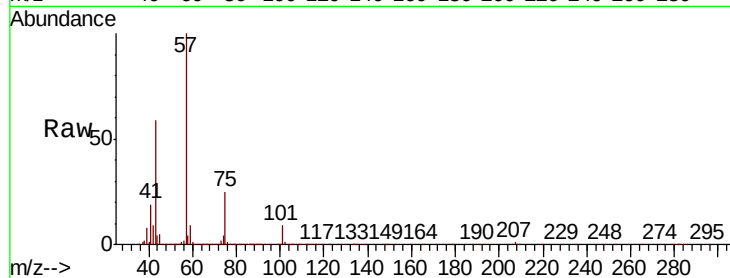
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 138574

Ion Ratio Lower Upper

43 100

58 10.0 31.0 46.4#



#54

cis-1,3-Dichloropropene

Concen: 7.011 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017602.D

Acq: 25 Jul 2020 17:31

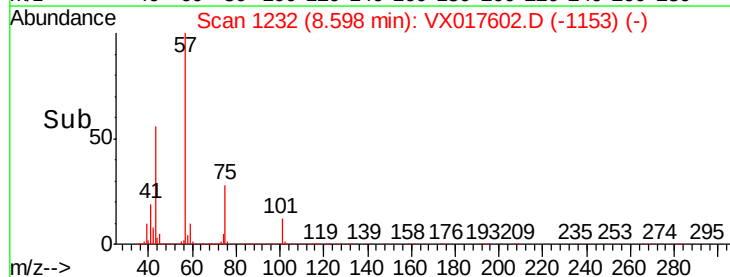
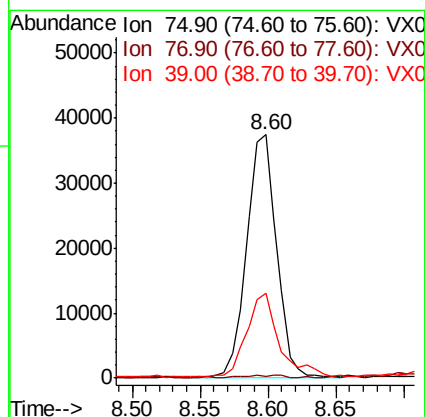
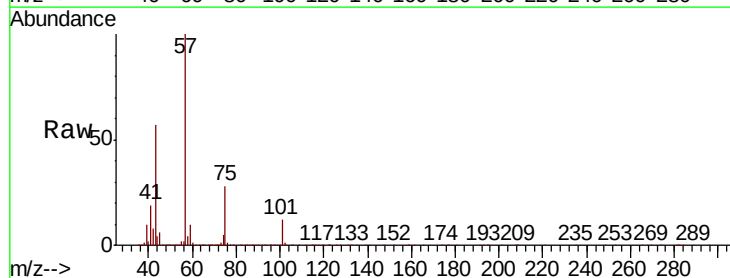
Tgt Ion: 75 Resp: 57993

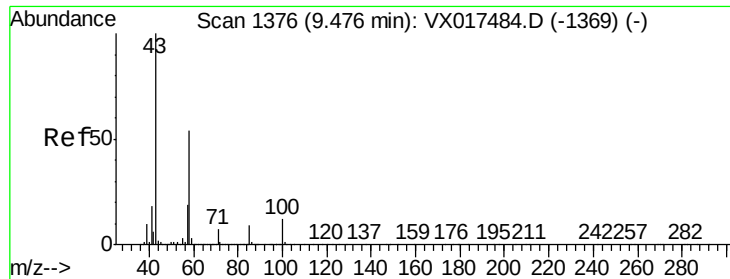
Ion Ratio Lower Upper

75 100

77 0.6 25.5 38.3#

39 34.1 41.8 62.8#

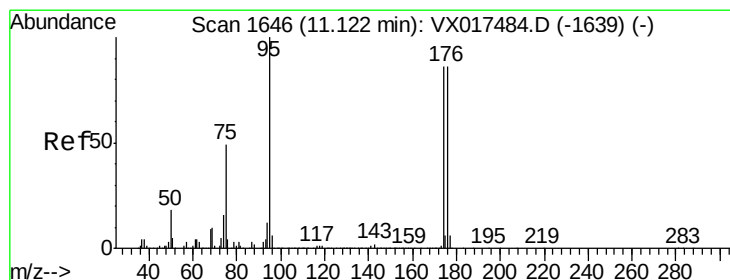
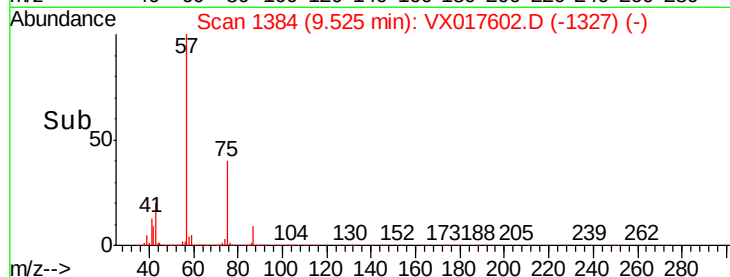
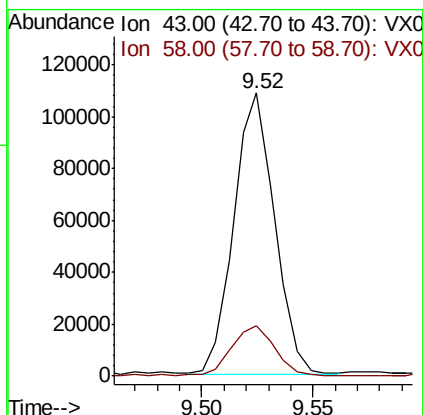
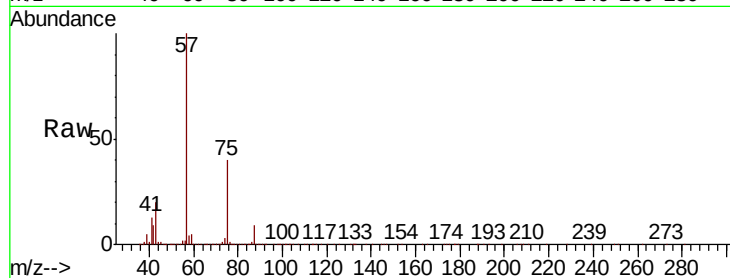




#59
2-Hexanone
Concen: 26.868 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

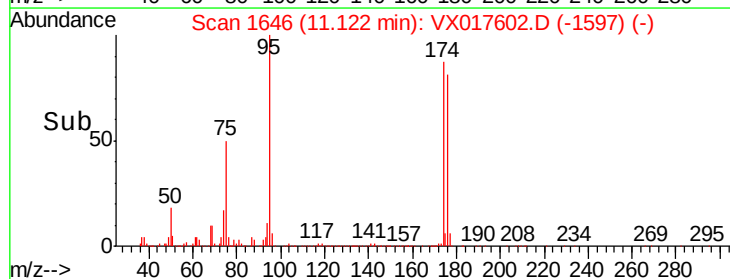
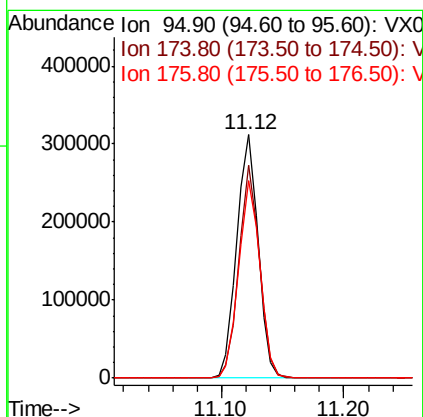
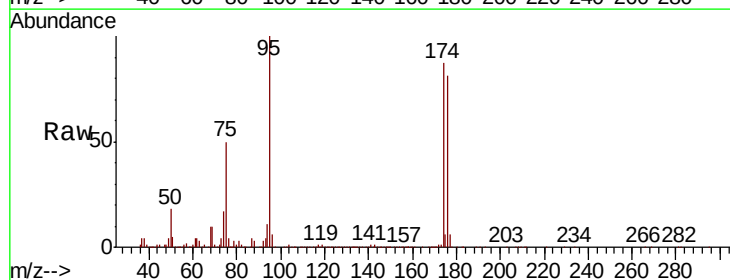
Instrument :
MSVOA_X
ClientSampleId :

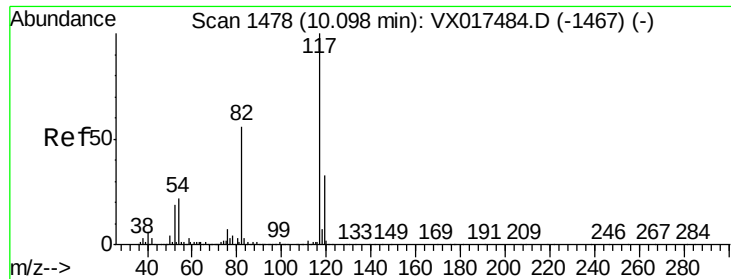
Tot Ion: 43 Resp: 139662
Ion Ratio Lower Upper
43 100
58 18.8 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 58.259 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

Tgt Ion: 95 Resp: 375947
Ion Ratio Lower Upper
95 100
174 84.1 0.0 169.0
176 81.0 0.0 161.0

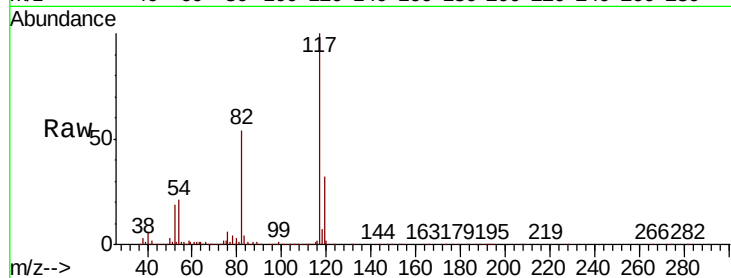




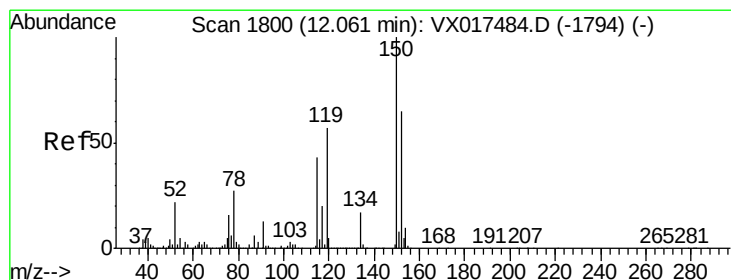
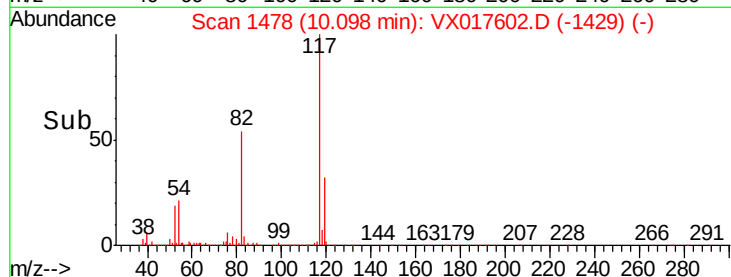
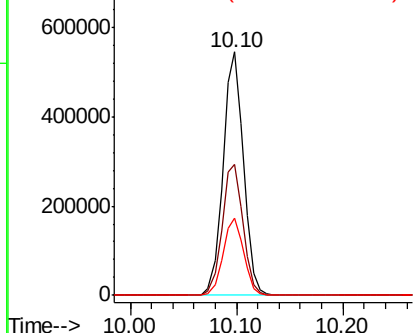
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 728066
Ion Ratio Lower Upper
117 100
82 53.5 44.0 66.0
119 31.5 25.4 38.0

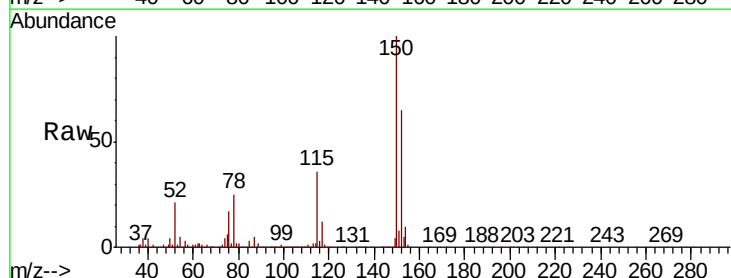


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

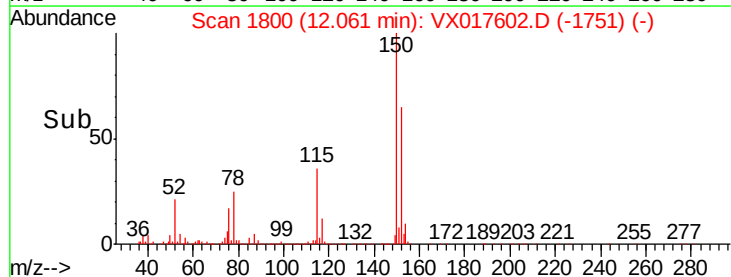
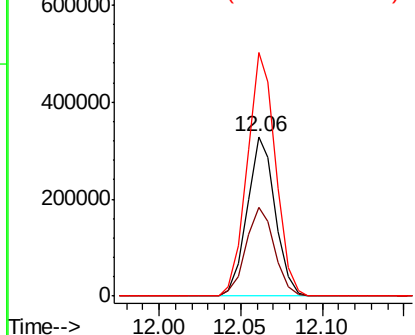


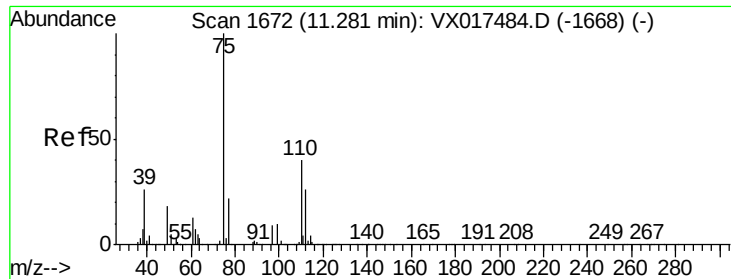
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017602.D
Acq: 25 Jul 2020 17:31

Tgt Ion:152 Resp: 393475
Ion Ratio Lower Upper
152 100
115 56.8 65.5 196.6#
150 154.8 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

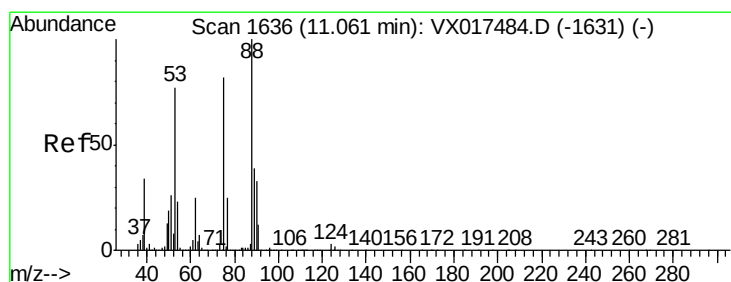
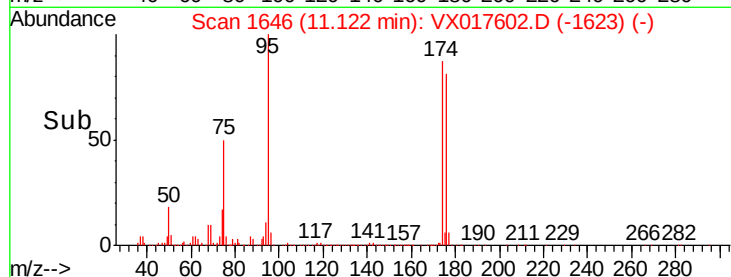
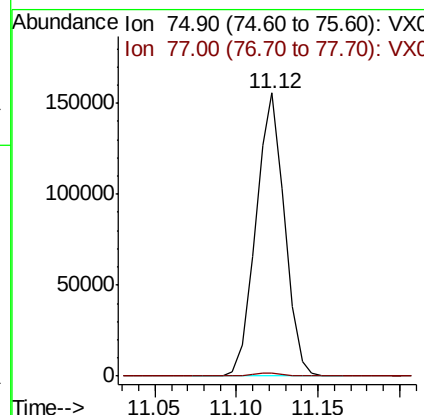
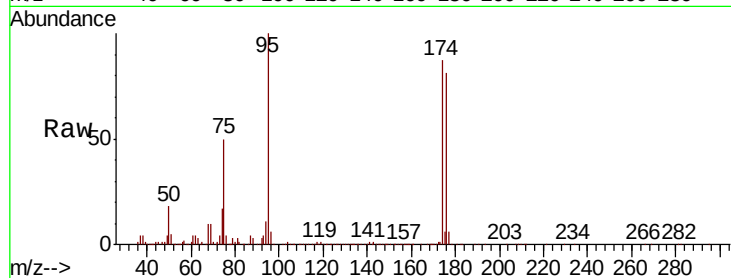




#76
 1,2,3-Trichloropropane
 Concen: 23.472 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

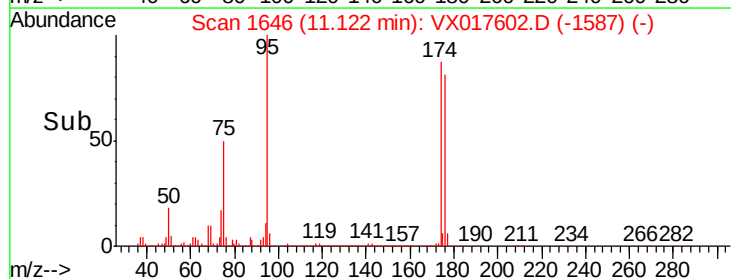
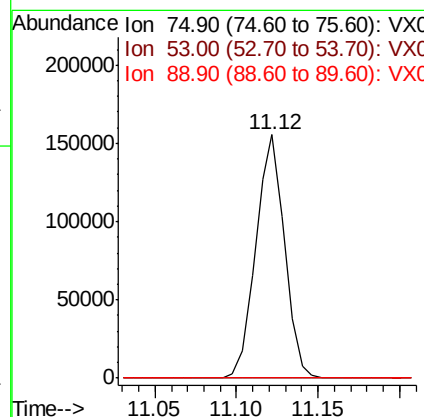
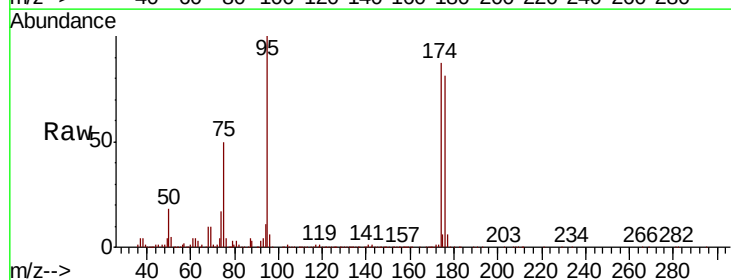
Instrument :
 MSVOA_X
 ClientSampleId :

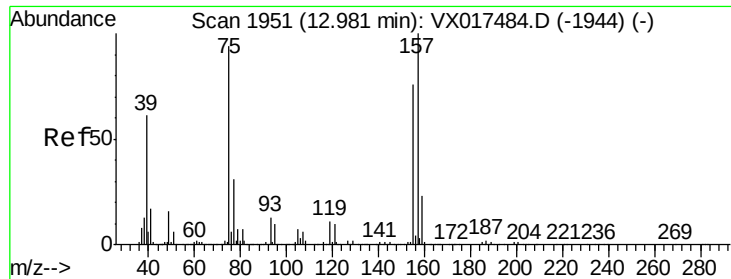
Tot Ion: 75 Resp: 189983
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.8 65.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.145 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Tgt Ion: 75 Resp: 189983
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.9 113.9#
 89 0.1 37.8 56.6#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.694 ug/l
 RT: 12.96 min Scan# 1948
 Delta R.T. -0.02 min
 Lab File: VX017602.D
 Acq: 25 Jul 2020 17:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
155	16.9	42.3	126.8#
157	49.2	54.3	162.9#

