

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072820\
 Data File : VX017659.D
 Acq On : 28 Jul 2020 17:35
 Operator : JC/SP
 Sample : L3390-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 29 02:29:25 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	491773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	820982	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	902319	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	496587	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	343586	54.39	ug/l	0.00
Spiked Amount			Recovery	=	108.78%	
35) Dibromofluoromethane	5.46	113	288023	52.46	ug/l	0.00
Spiked Amount			Recovery	=	104.92%	
50) Toluene-d8	8.70	98	1031120	52.06	ug/l	0.00
Spiked Amount			Recovery	=	104.12%	
62) 4-Bromofluorobenzene	11.12	95	460047	58.03	ug/l	0.00
Spiked Amount			Recovery	=	116.06%	

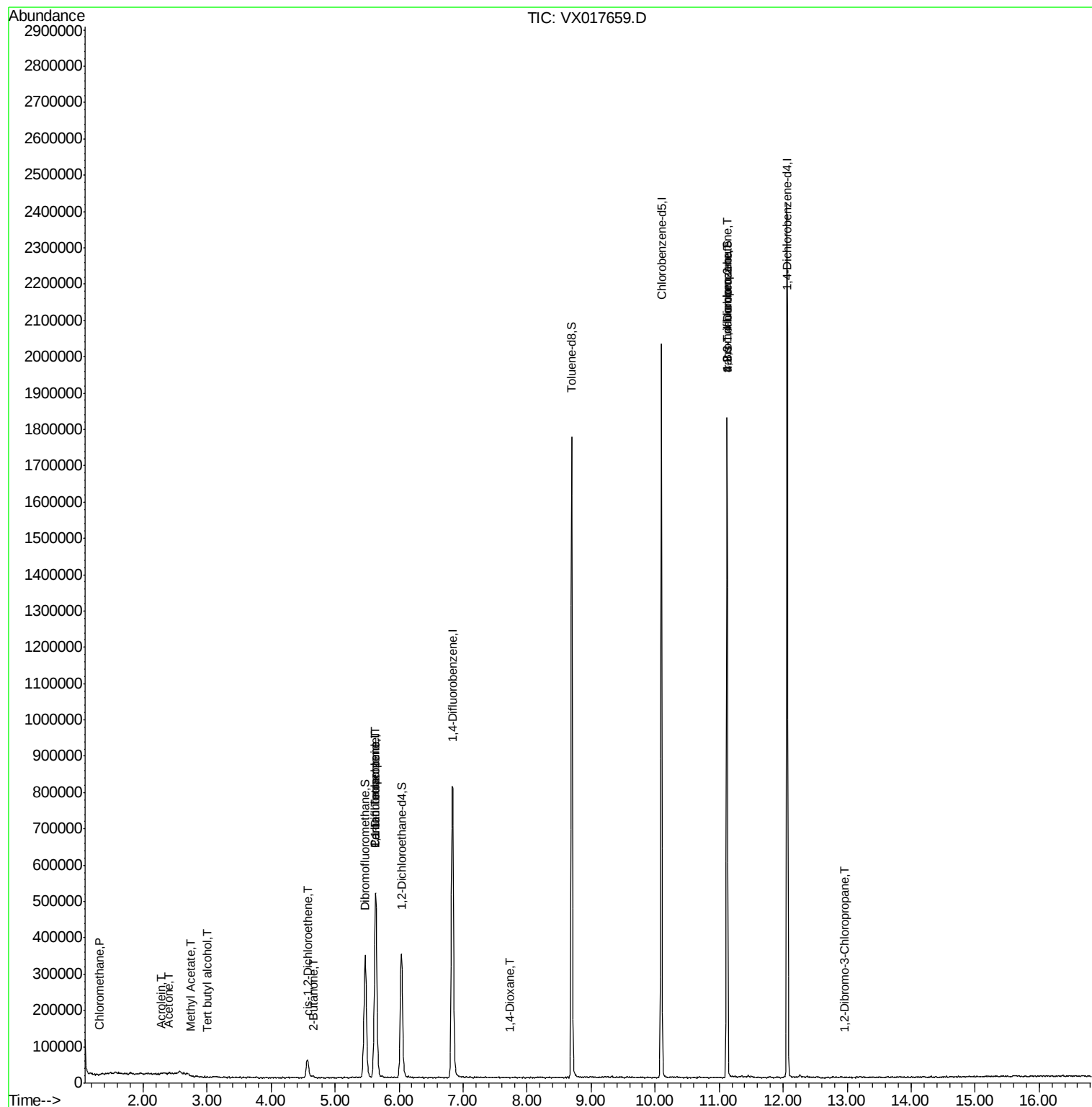
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	740	Below Cal	#	42
3) Chloromethane	1.32	50	1168	0.558	ug/l #	84
5) Bromomethane	1.61	94	329	Below Cal	#	3
6) Chloroethane	1.68	64	391	Below Cal	#	33
8) Diethyl Ether	2.17	74	304	Below Cal		86
11) Tert butyl alcohol	3.01	59	330	0.248	ug/l #	1
13) Acrolein	2.28	56	581	4.711	ug/l #	79
16) Acetone	2.41	43	4317	1.553	ug/l #	76
18) Methyl Acetate	2.75	43	1427	0.218	ug/l #	84
20) Methylene Chloride	2.84	84	1018	Below Cal	#	56
25) 2-Butanone	4.65	43	1024	0.259	ug/l #	47
27) cis-1,2-Dichloroethene	4.56	96	32591	5.514	ug/l	87
36) 1,1-Dichloropropene	5.64	75	37089	4.710	ug/l #	41
38) Carbon Tetrachloride	5.64	117	48672	5.090	ug/l #	17
49) 1,4-Dioxane	7.72	88	223	1.651	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	229289	22.446	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	229289	56.560	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.96	75	621	2.773	ug/l #	10

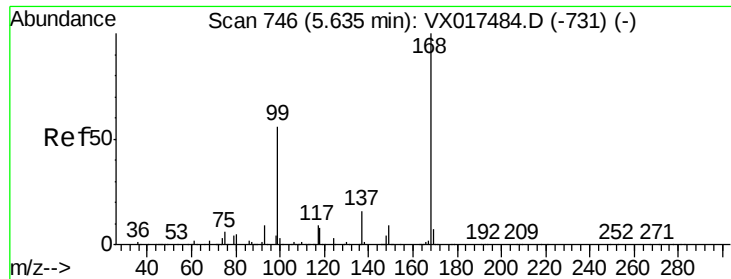
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :

MSVOA_X

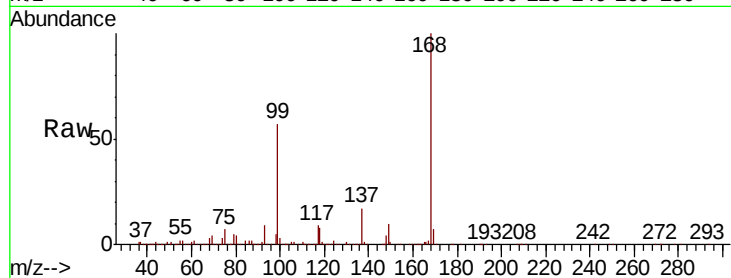
ClientSampleId :

Tot Ion:168 Resp: 491773

Ion Ratio Lower Upper

168 100

99 56.7 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

200000

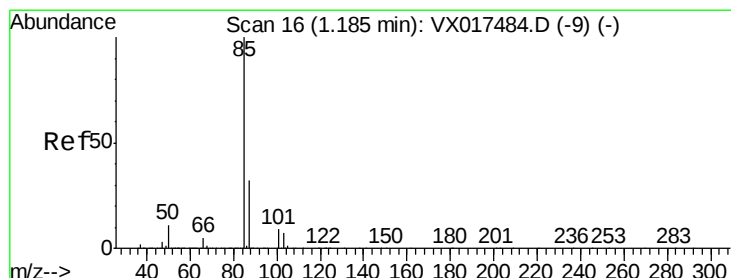
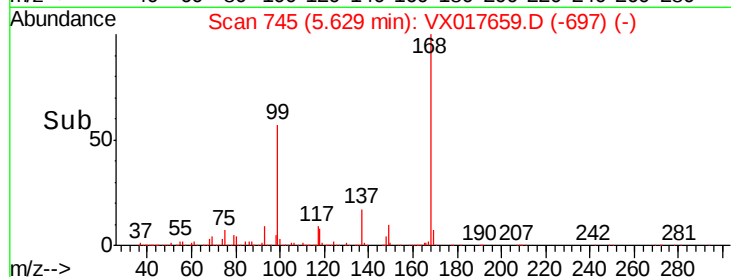
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.21 min Scan# 20

Delta R.T. 0.03 min

Lab File: VX017659.D

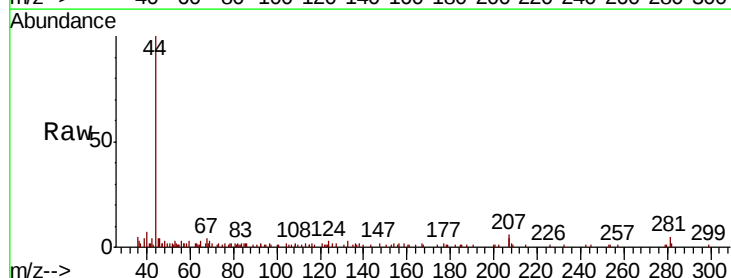
Acq: 28 Jul 2020 17:35

Tgt Ion: 85 Resp: 740

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

1.21

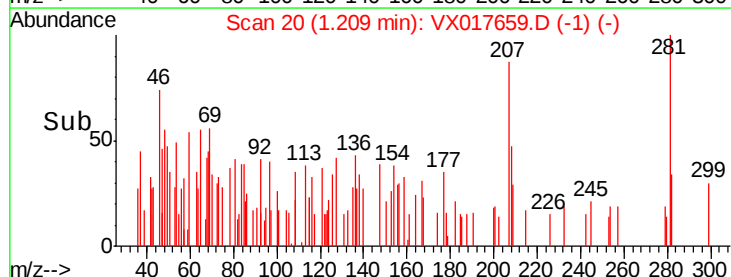
300

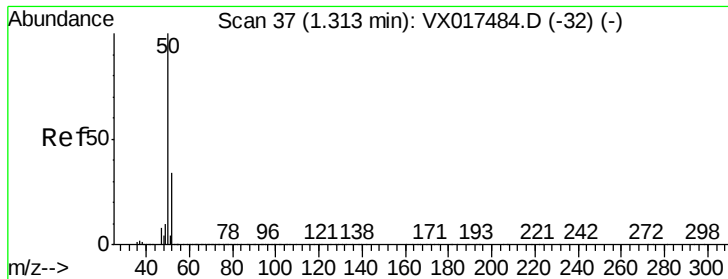
200

100

0

Time-->





#3

Chloromethane

Concen: 0.558 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :

MSVOA_X

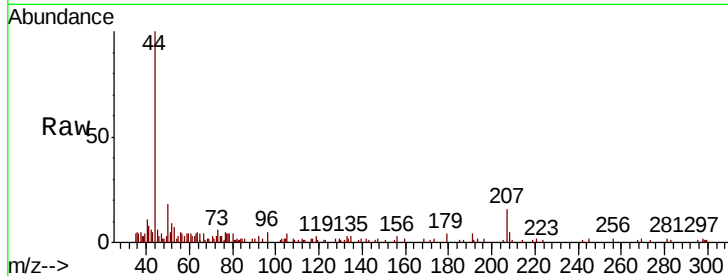
ClientSampled :

Tot Ion: 50 Resp: 1168

Ion Ratio Lower Upper

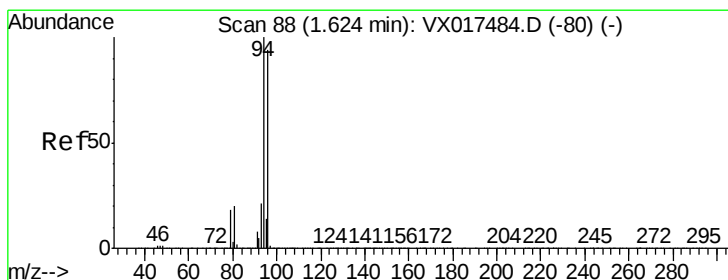
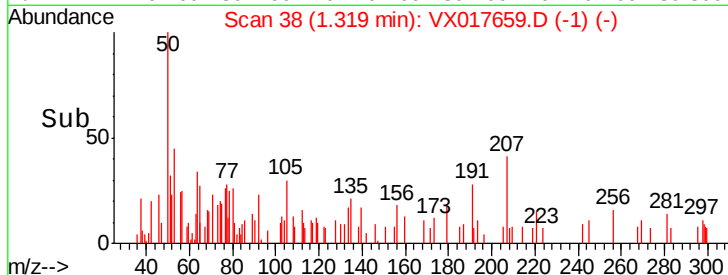
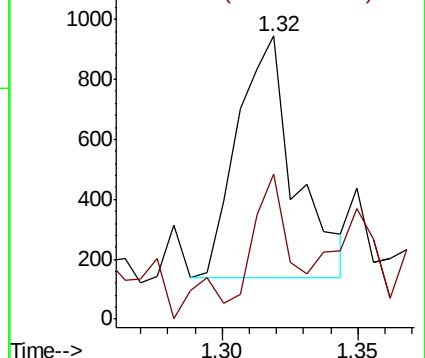
50 100

52 41.3 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# 85

Delta R.T. -0.02 min

Lab File: VX017659.D

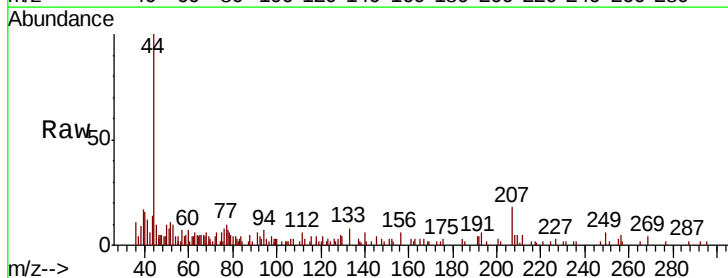
Acq: 28 Jul 2020 17:35

Tgt Ion: 94 Resp: 329

Ion Ratio Lower Upper

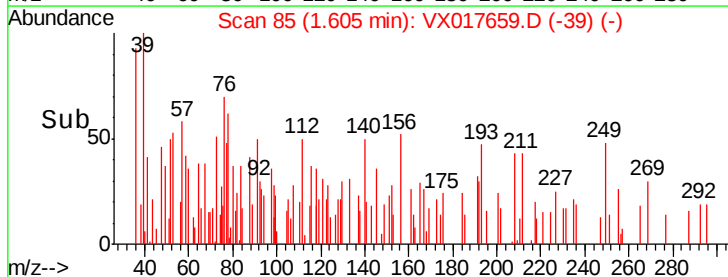
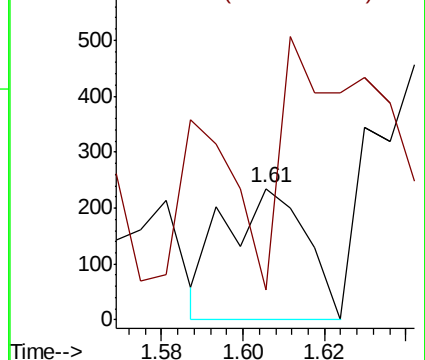
94 100

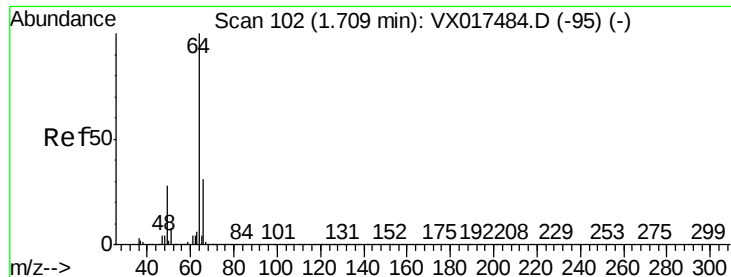
96 0.0 74.1 111.1#



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: 1.68 min Scan# 97

Delta R.T. -0.03 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

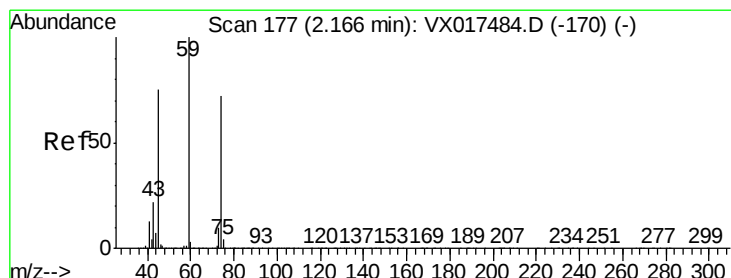
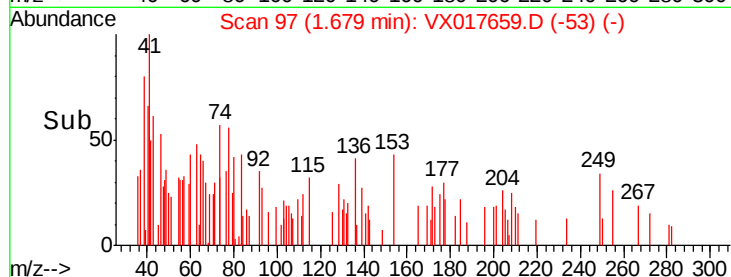
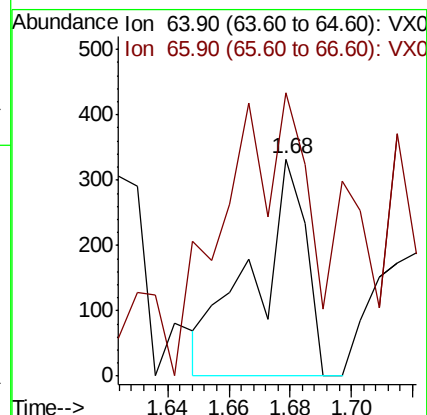
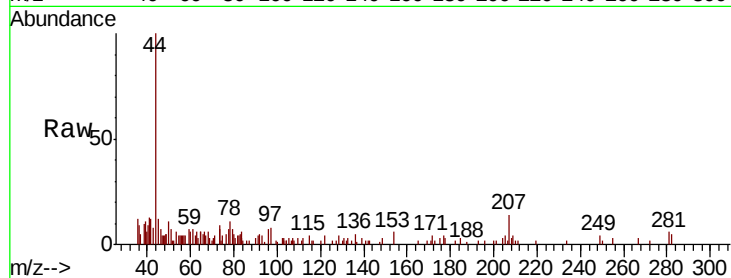
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 64 Resp: 391

Ion Ratio Lower Upper

64 100

66 68.1 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017659.D

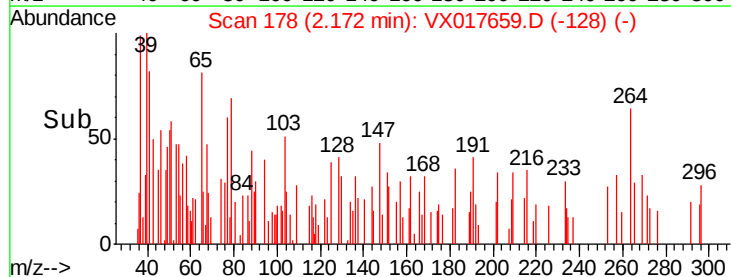
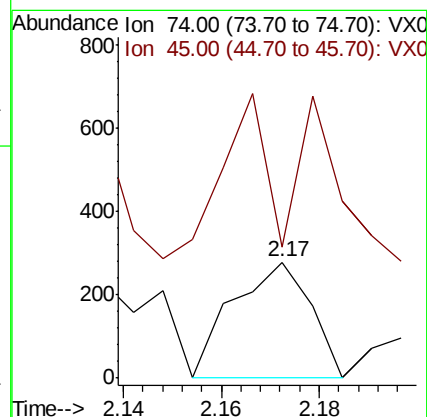
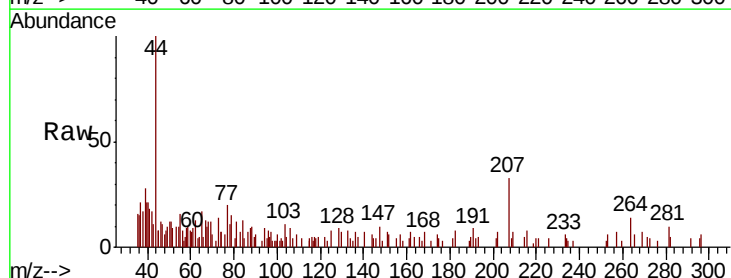
Acq: 28 Jul 2020 17:35

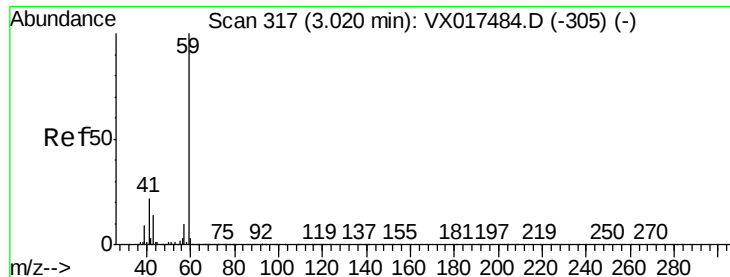
Tgt Ion: 74 Resp: 304

Ion Ratio Lower Upper

74 100

45 87.2 50.8 152.5

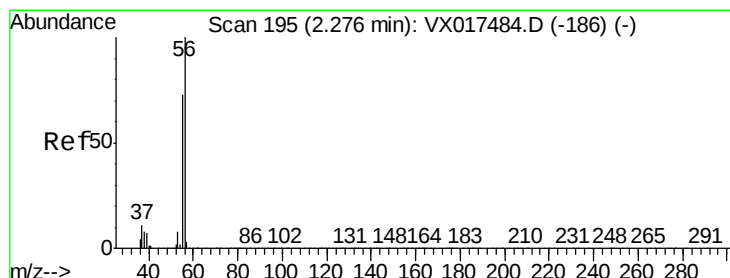
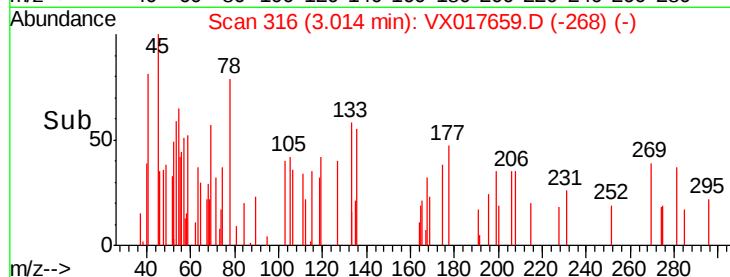
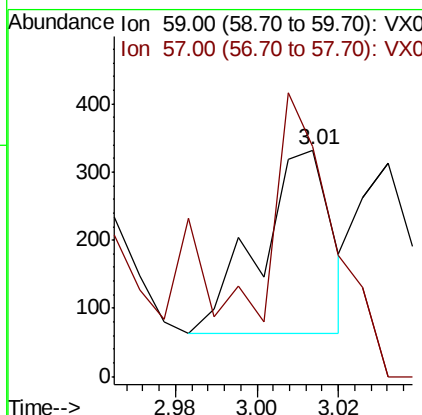
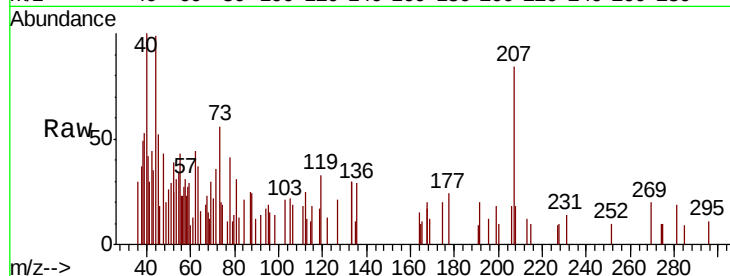




#11
Tert butyl alcohol
Concen: 0.248 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX017659.D
Acq: 28 Jul 2020 17:35

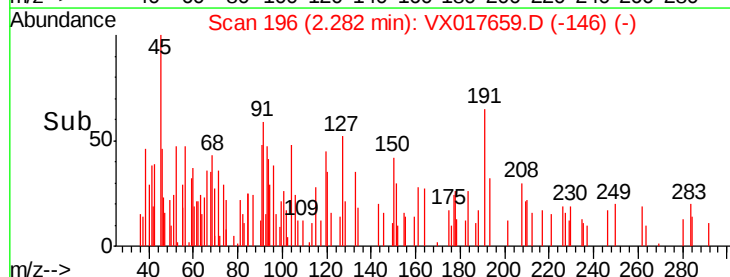
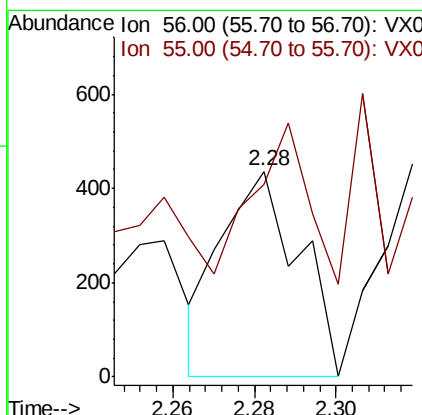
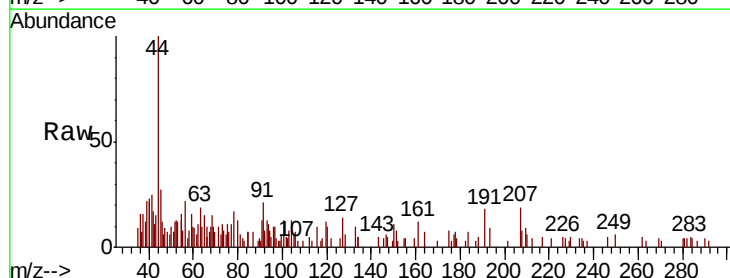
Instrument :
MSVOA_X
ClientSampled :

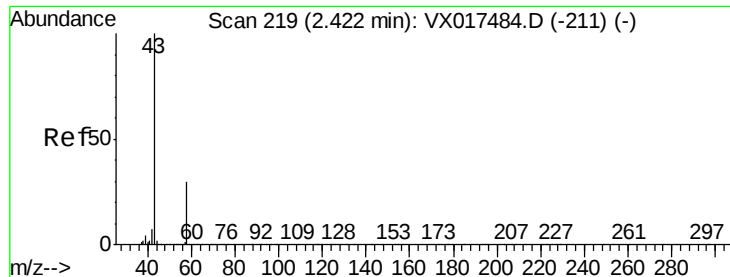
Tot Ion: 59 Resp: 330
Ion Ratio Lower Upper
59 100
57 141.5 8.6 12.8#



#13
Acrolein
Concen: 4.711 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX017659.D
Acq: 28 Jul 2020 17:35

Tgt Ion: 56 Resp: 581
Ion Ratio Lower Upper
56 100
55 54.0 57.4 86.2#





#16

Acetone

Concen: 1.553 ug/l

RT: 2.41 min Scan# 217

Delta R.T. -0.01 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :

MSVOA_X

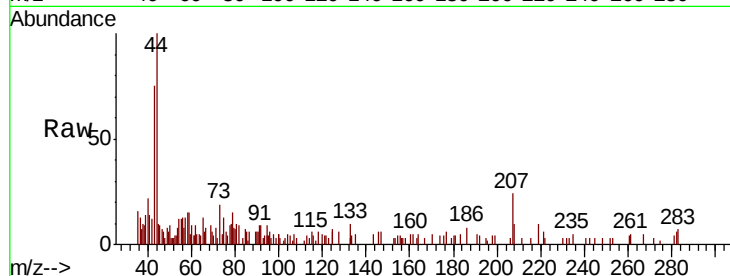
ClientSampled :

Tot Ion: 43 Resp: 4317

Ion Ratio Lower Upper

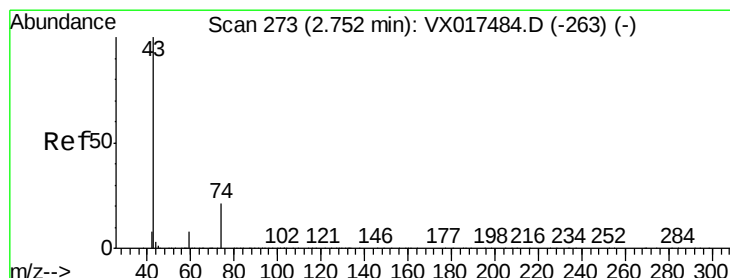
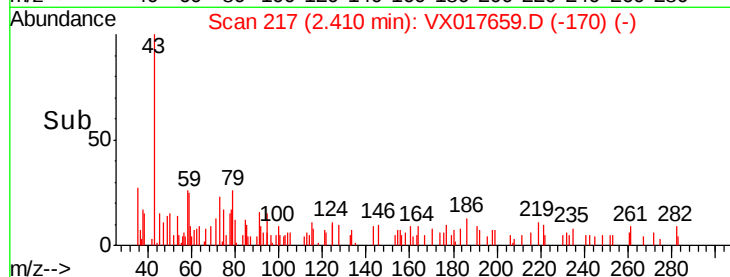
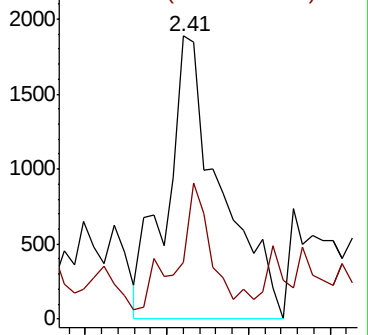
43 100

58 17.1 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.218 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX017659.D

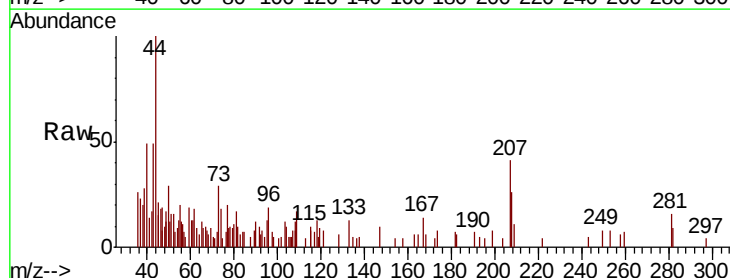
Acq: 28 Jul 2020 17:35

Tgt Ion: 43 Resp: 1427

Ion Ratio Lower Upper

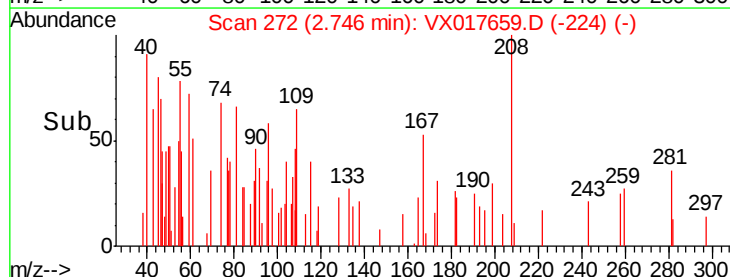
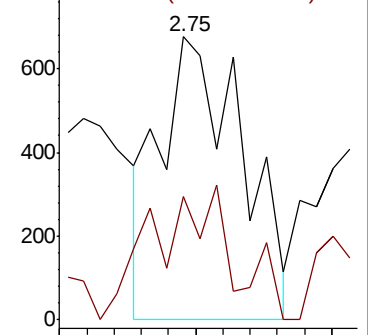
43 100

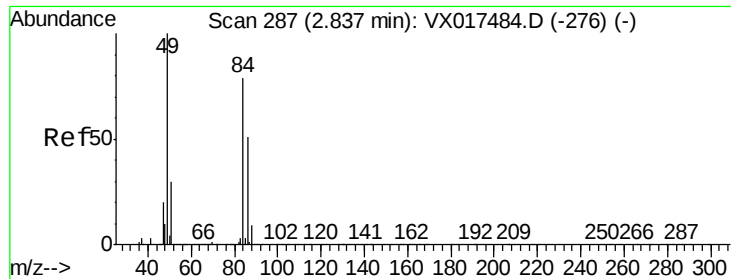
74 29.3 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

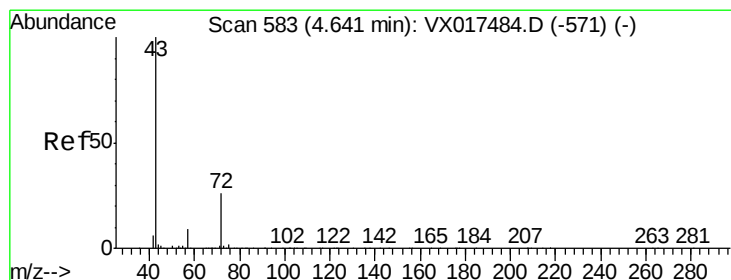
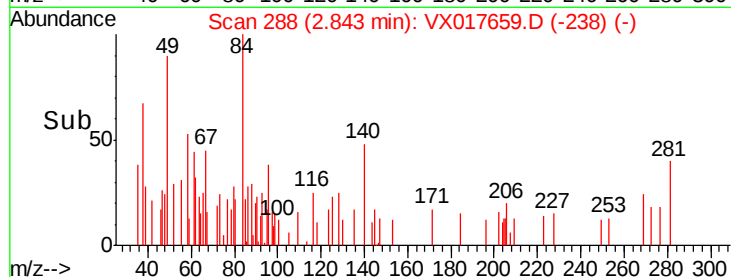
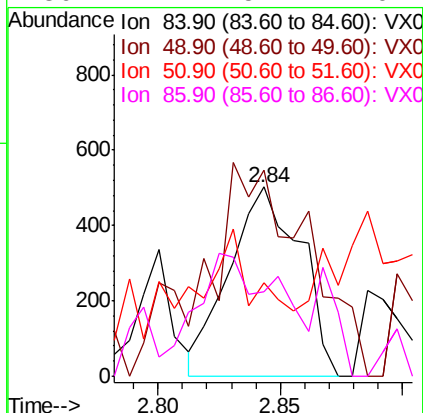
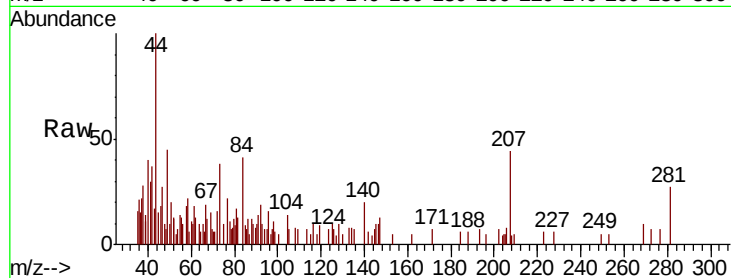




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017659.D
Acq: 28 Jul 2020 17:35

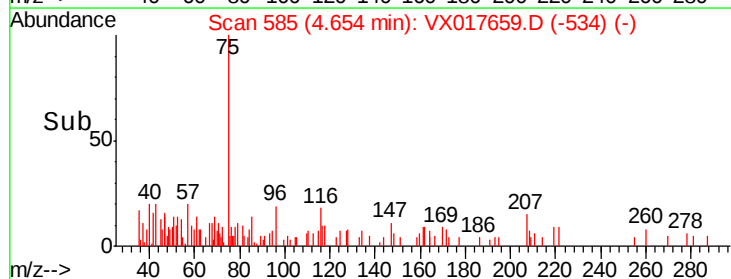
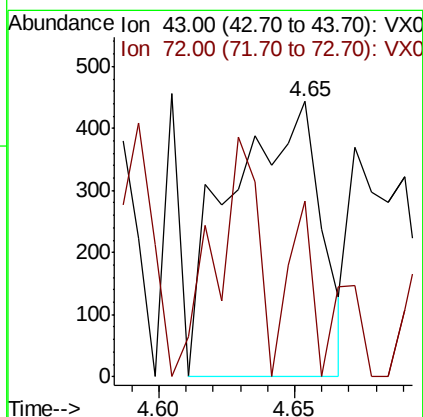
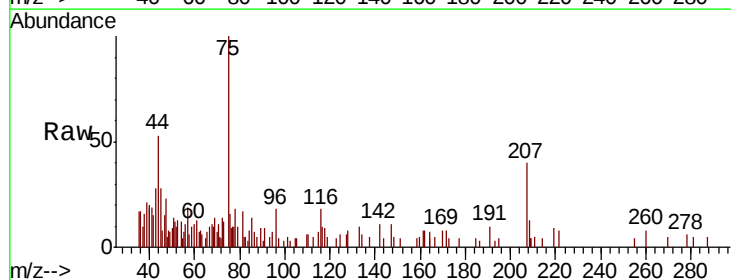
Instrument :
MSVOA_X
ClientSampleId :

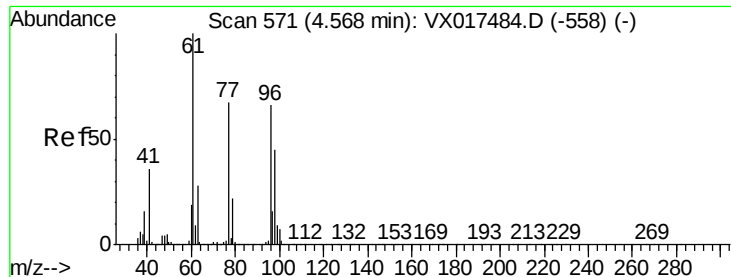
Tot Ion: 84 Resp: 1018
Ion Ratio Lower Upper
84 100
49 94.3 100.3 150.5#
51 2.5 30.5 45.7#
86 12.1 51.1 76.7#



#25
2-Butanone
Concen: 0.259 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX017659.D
Acq: 28 Jul 2020 17:35

Tgt Ion: 43 Resp: 1024
Ion Ratio Lower Upper
43 100
72 49.7 19.0 28.4#



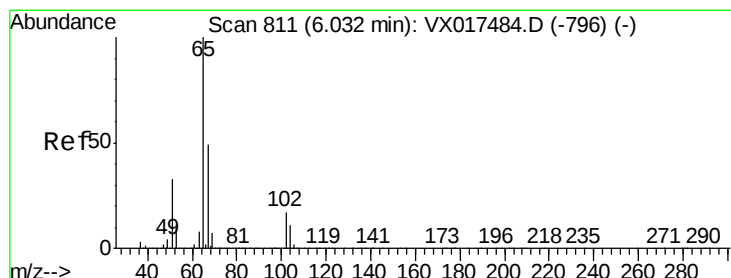
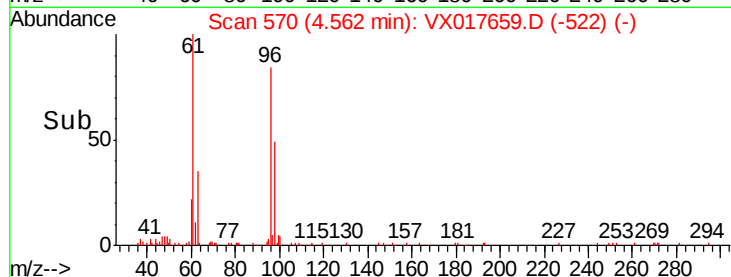
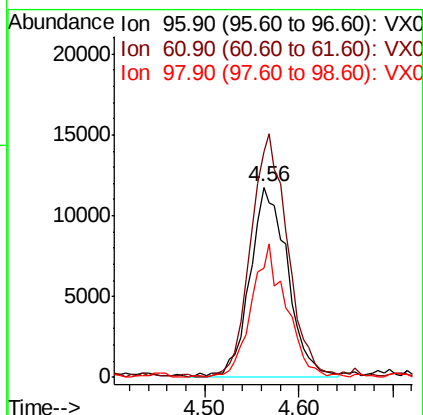
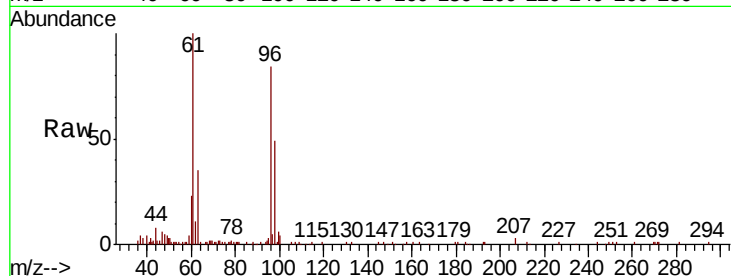


#27

cis-1,2-Dichloroethene
 Concen: 5.514 ug/l
 RT: 4.56 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: VX017659.D
 Acq: 28 Jul 2020 17:35

Instrument :
 MSVOA_X
 ClientSampleId :

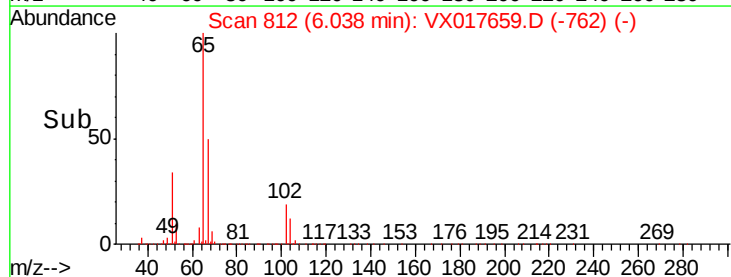
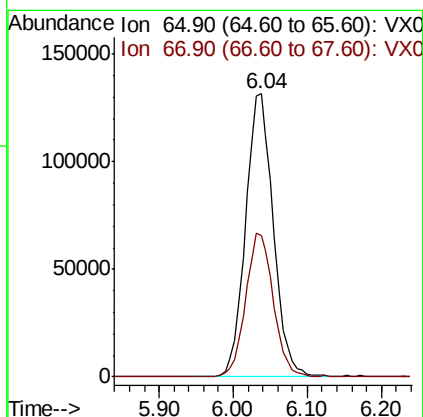
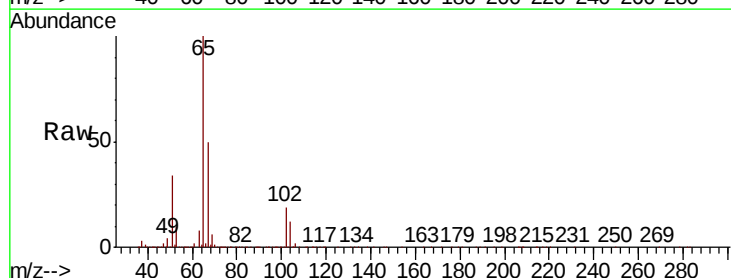
Tot Ion	Ratio	Lower	Upper
96	100		
61	126.9	0.0	301.2
98	66.0	0.0	130.0

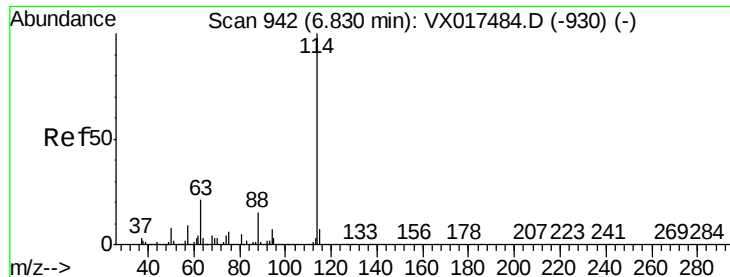


#33

1,2-Dichloroethane-d4
 Concen: 54.390 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017659.D
 Acq: 28 Jul 2020 17:35

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.4	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: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

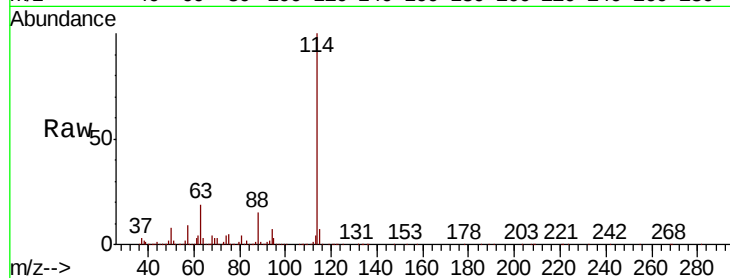
Tot Ion:114 Resp: 820982

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.6

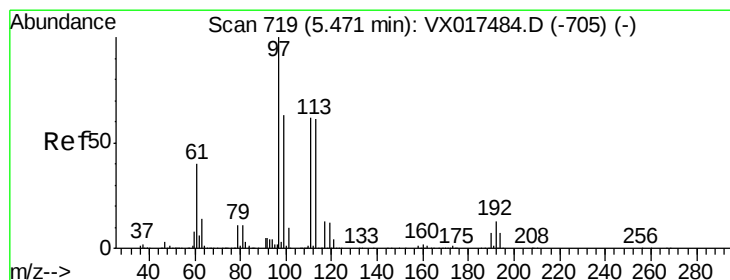
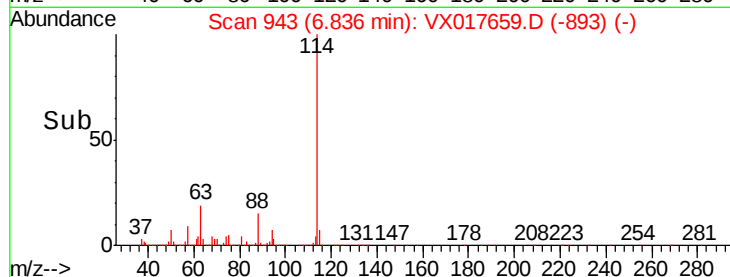
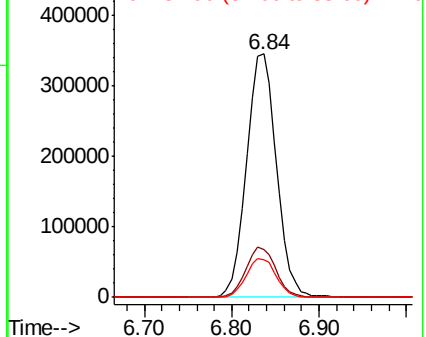
88 15.2 0.0 33.4



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: 52.456 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

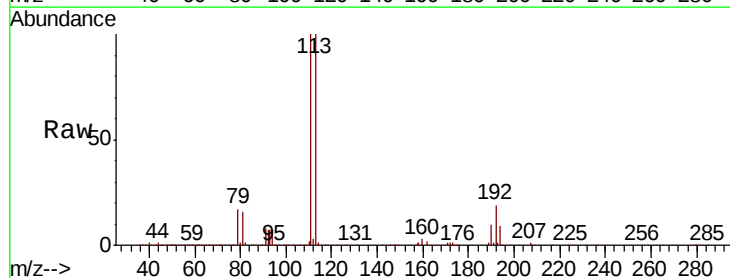
Tgt Ion:113 Resp: 288023

Ion Ratio Lower Upper

113 100

111 101.4 80.7 121.1

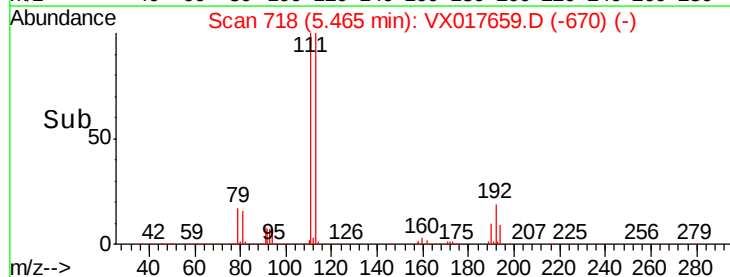
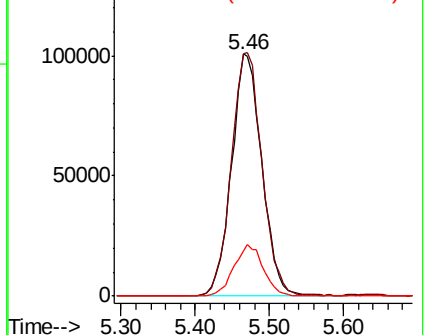
192 20.8 16.9 25.3

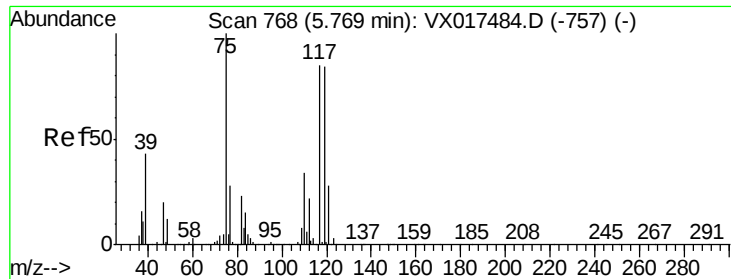


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.710 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :
MSVOA_X
ClientSampleId :

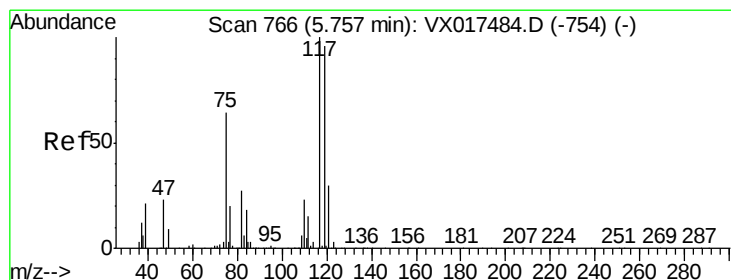
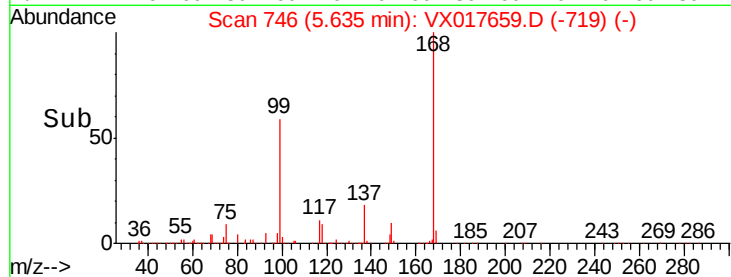
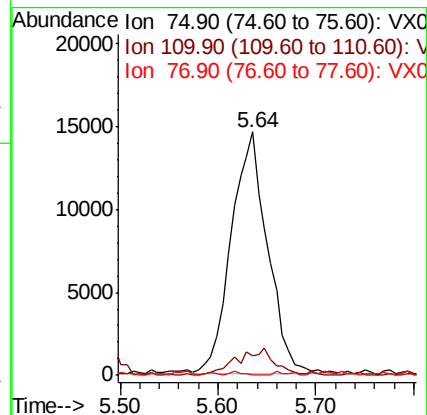
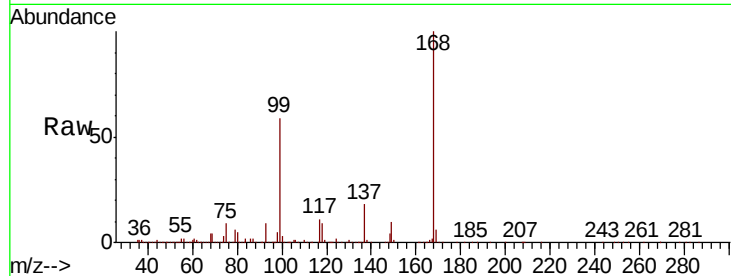
Tot Ion: 75 Resp: 37089

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.3#

77 0.5 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.090 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

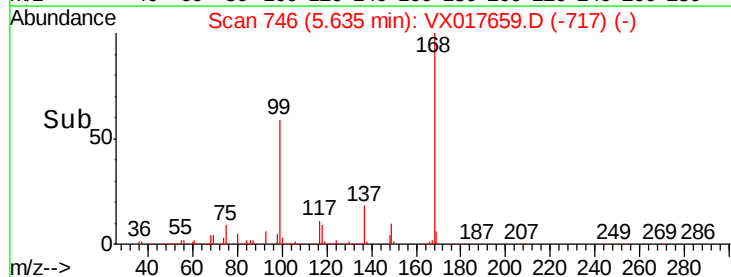
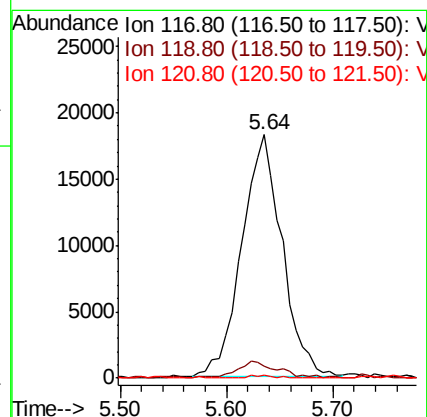
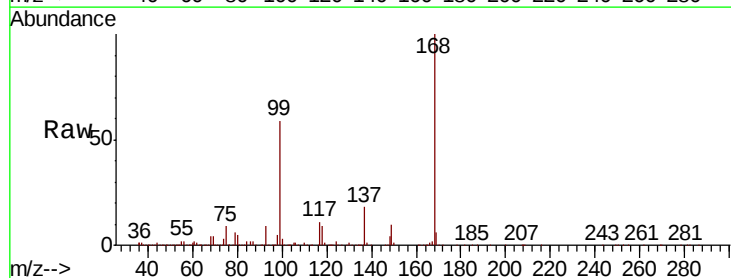
Tgt Ion: 117 Resp: 48672

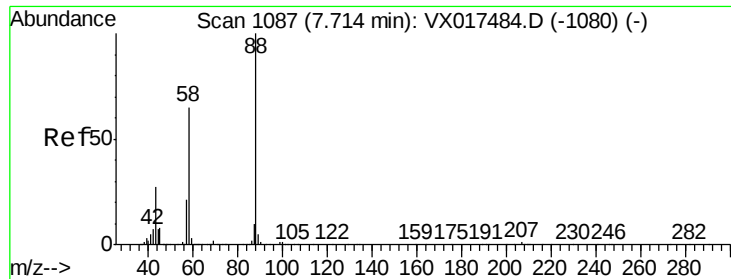
Ion Ratio Lower Upper

117 100

119 5.0 75.4 113.0#

121 1.1 24.3 36.5#

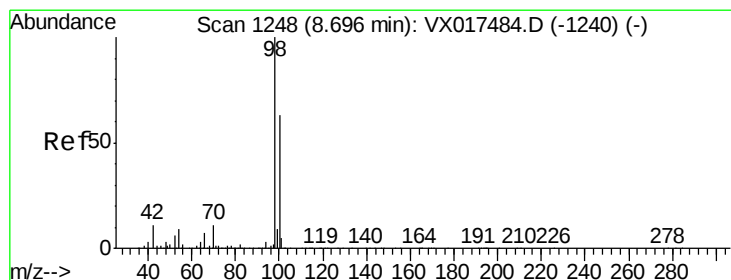
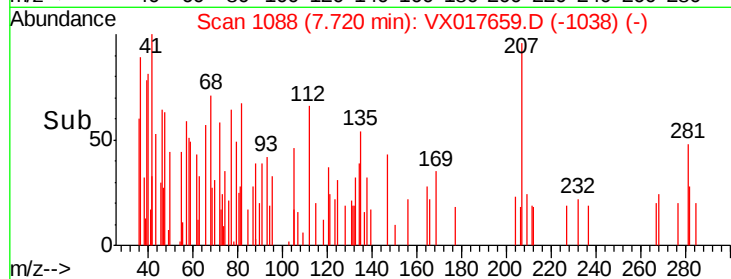
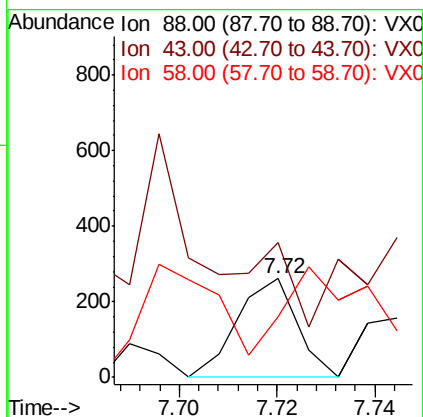
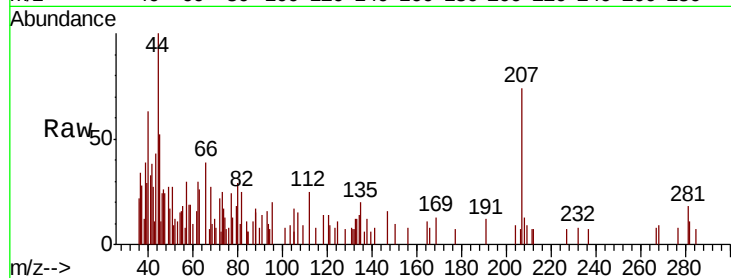




#49
1,4-Dioxane
Concen: 1.651 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017659.D
Acq: 28 Jul 2020 17:35

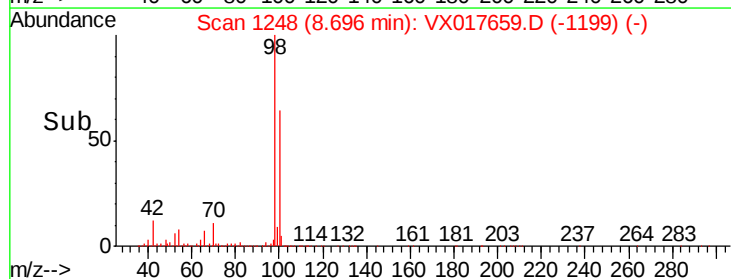
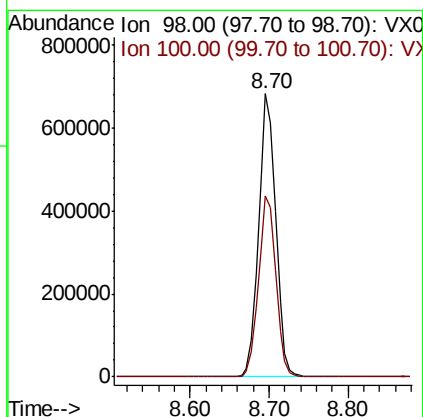
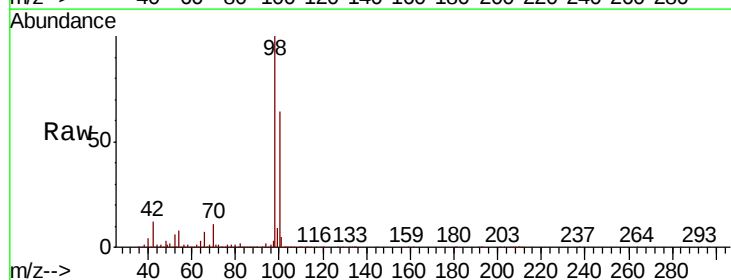
Instrument :
MSVOA_X
ClientSampled :

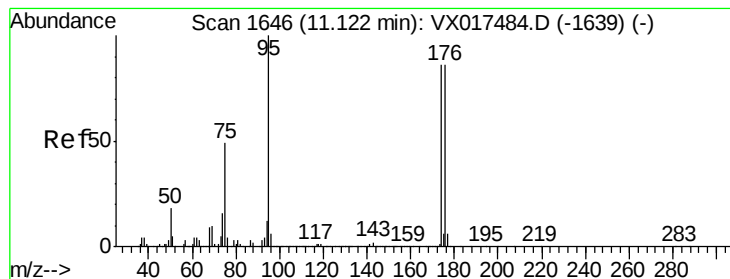
Tot Ion: 88 Resp: 223
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 205.8 58.3 87.5#



#50
Toluene-d8
Concen: 52.056 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017659.D
Acq: 28 Jul 2020 17:35

Tgt Ion: 98 Resp: 1031120
Ion Ratio Lower Upper
98 100
100 64.7 52.3 78.5





#62

4-Bromofluorobenzene

Concen: 58.034 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :

MSVOA_X

ClientSampled :

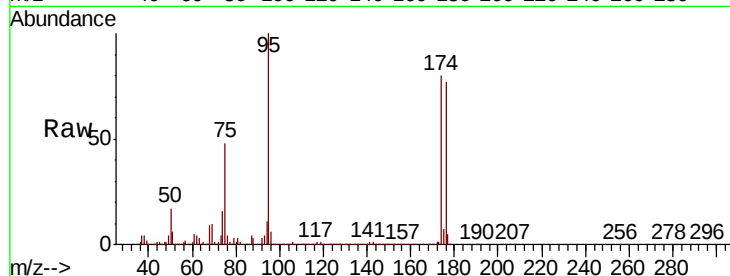
Tot Ion: 95 Resp: 460047

Ion Ratio Lower Upper

95 100

174 82.7 0.0 169.0

176 78.5 0.0 161.0

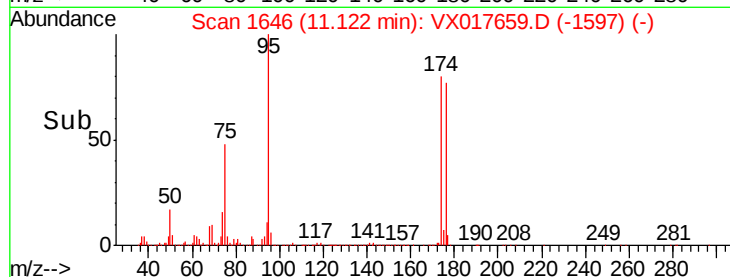


Abundance Ion 94.90 (94.60 to 95.60): VX017484.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017484.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017484.D (-1639) (-)

Time-->

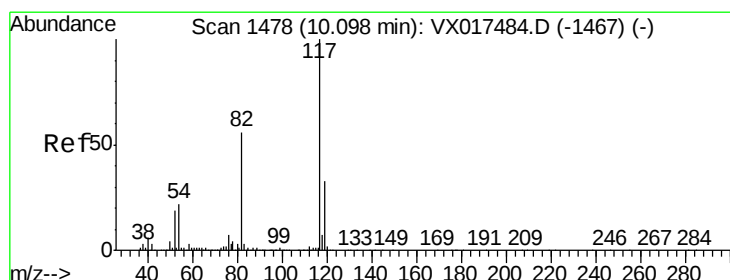


Abundance Ion 94.90 (94.60 to 95.60): VX017659.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX017659.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX017659.D (-1597) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

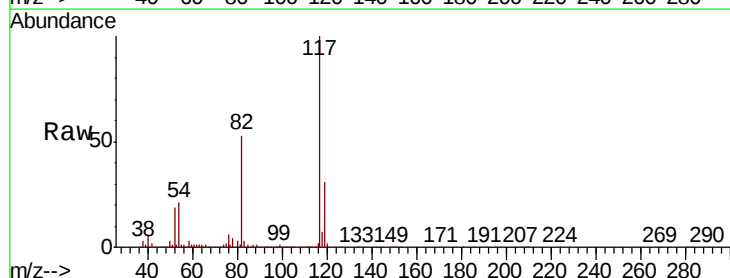
Tgt Ion: 117 Resp: 902319

Ion Ratio Lower Upper

117 100

82 53.3 44.0 66.0

119 30.5 25.4 38.0

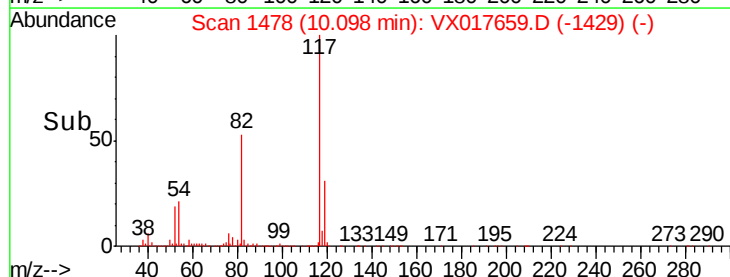


Abundance Ion 116.90 (116.60 to 117.60): VX017484.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX017484.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX017484.D (-1467) (-)

Time-->

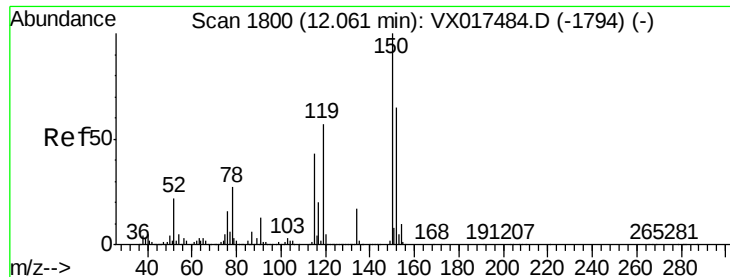


Abundance Ion 116.90 (116.60 to 117.60): VX017659.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX017659.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX017659.D (-1429) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

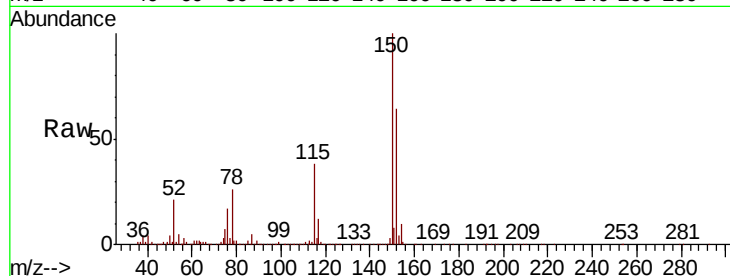
Tot Ion:152 Resp: 496587

Ion Ratio Lower Upper

152 100

115 57.7 65.5 196.6#

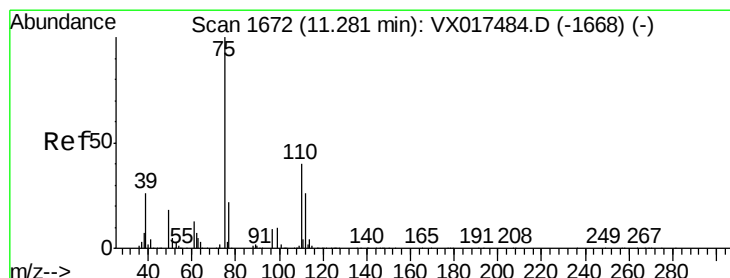
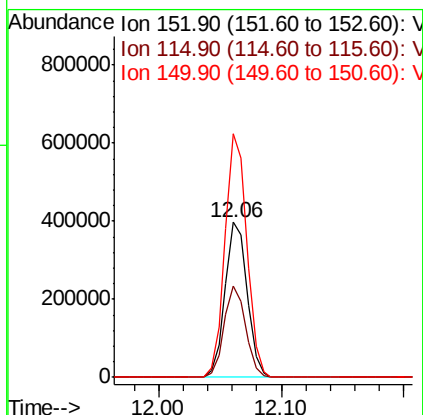
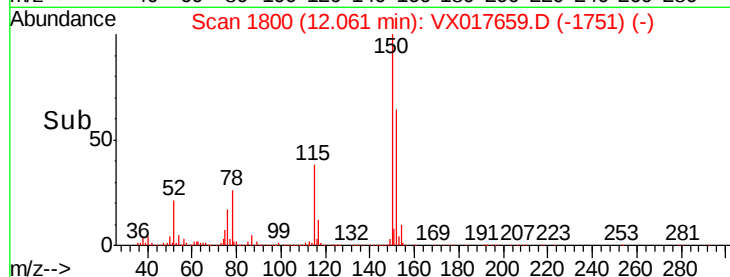
150 155.2 0.0 412.6



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: 22.446 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017659.D

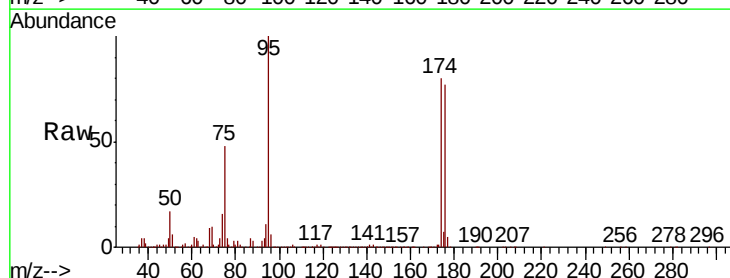
Acq: 28 Jul 2020 17:35

Tgt Ion: 75 Resp: 229289

Ion Ratio Lower Upper

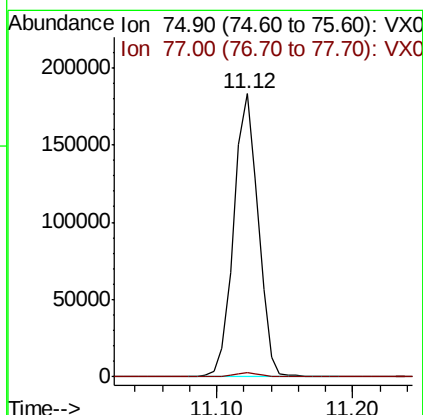
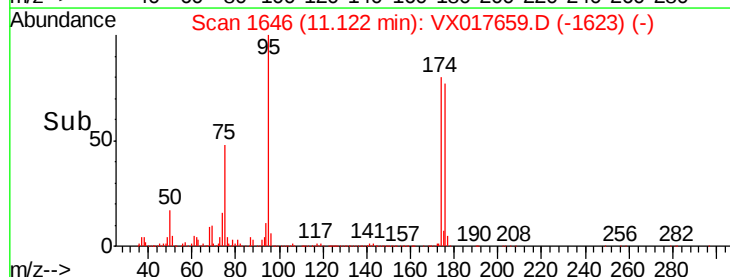
75 100

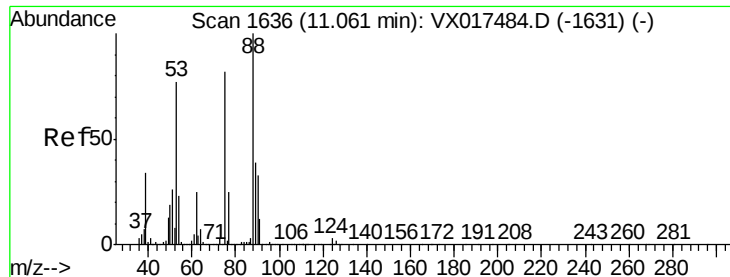
77 1.5 21.8 65.3#



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: 56.560 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

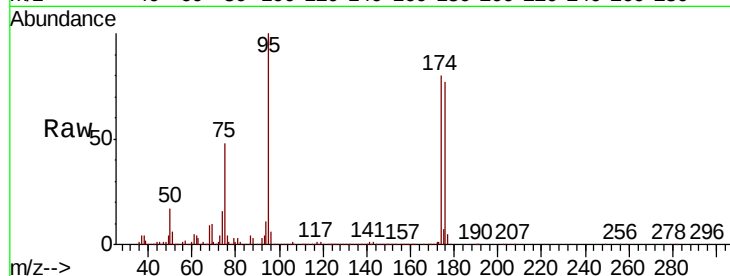
Tot Ion: 75 Resp: 229289

Ion Ratio Lower Upper

75 100

53 0.5 75.9 113.9#

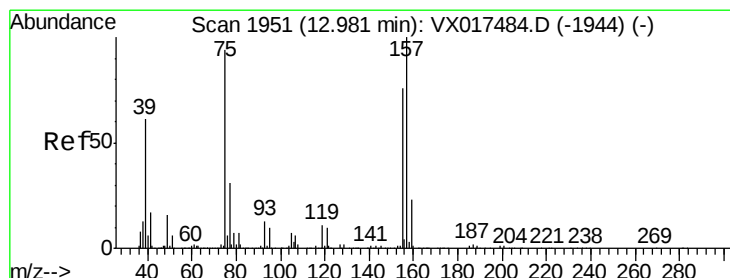
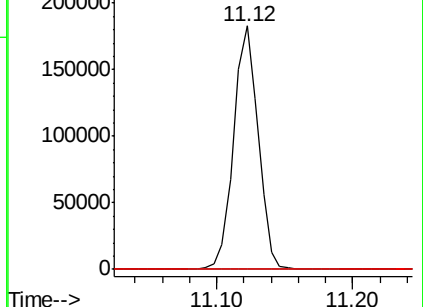
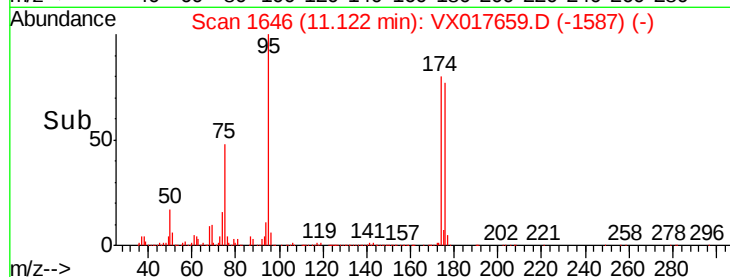
89 0.0 37.8 56.6#



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: 2.773 ug/l

RT: 12.96 min Scan# 1947

Delta R.T. -0.02 min

Lab File: VX017659.D

Acq: 28 Jul 2020 17:35

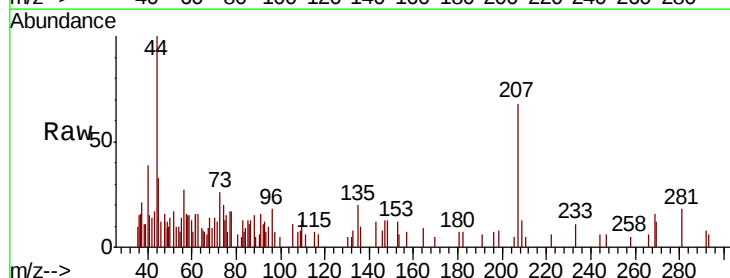
Tgt Ion: 75 Resp: 621

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 15.9 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

