

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072820\
 Data File : VX017655.D
 Acq On : 28 Jul 2020 16:04
 Operator : JC/SP
 Sample : L3440-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 29 02:28:22 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	510604	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	854992	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	889648	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	482209	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	349245	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
35) Dibromofluoromethane	5.47	113	289199	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
50) Toluene-d8	8.70	98	1061835	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	11.12	95	454848	55.10	ug/l	0.00
Spiked Amount			Recovery	=	110.20%	

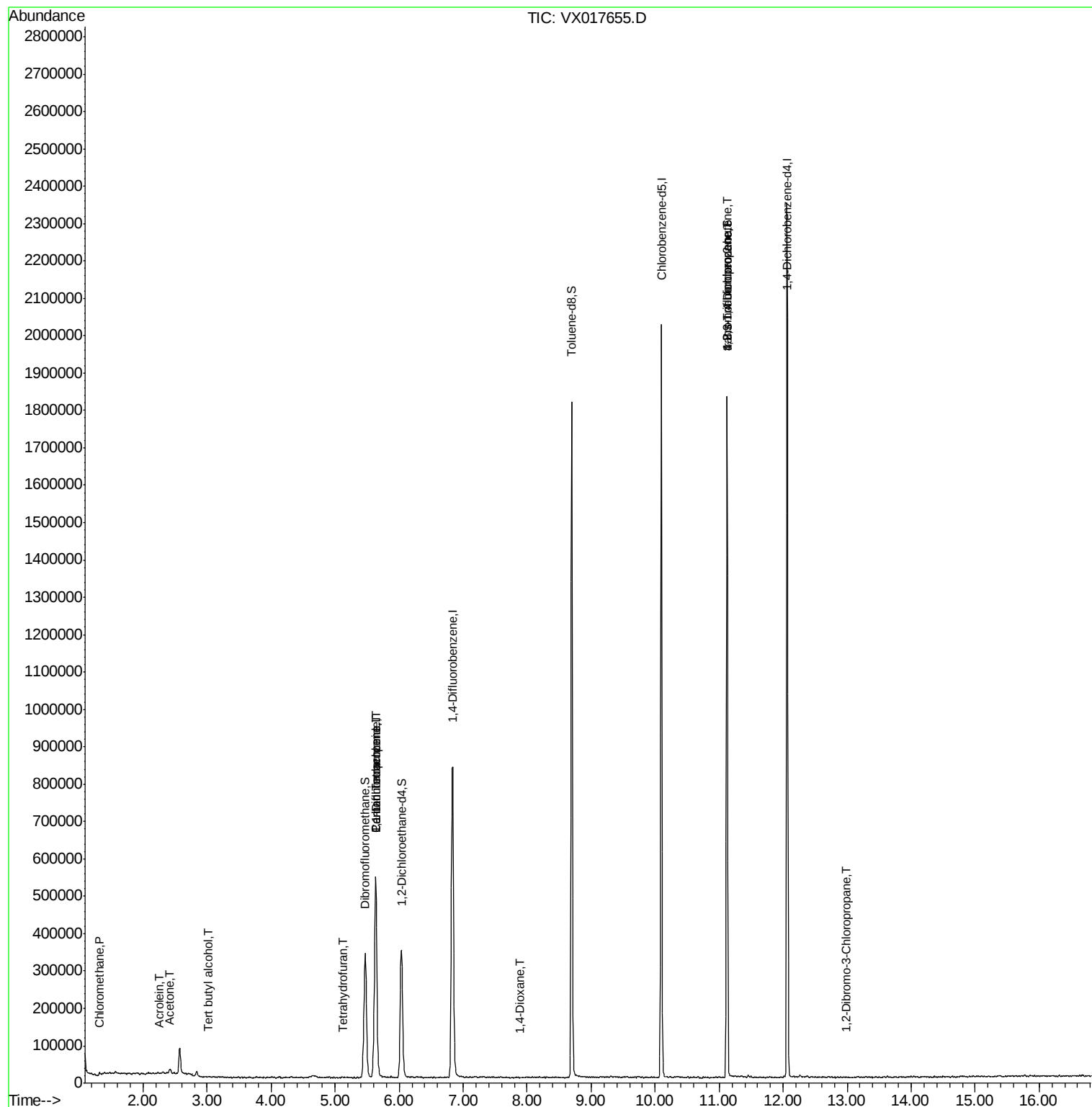
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	327	Below Cal	#	42
3) Chloromethane	1.32	50	4284	1.041	ug/l	91
5) Bromomethane	1.61	94	170	Below Cal	#	3
6) Chloroethane	1.70	64	298	Below Cal		92
8) Diethyl Ether	2.17	74	271	Below Cal		66
11) Tert butyl alcohol	3.02	59	707	0.511	ug/l #	72
13) Acrolein	2.25	56	770	4.866	ug/l #	14
16) Acetone	2.42	43	13363	4.629	ug/l	97
20) Methylene Chloride	2.84	84	6678	Below Cal	#	75
29) Tetrahydrofuran	5.12	42	556	0.219	ug/l	98
36) 1,1-Dichloropropene	5.63	75	36340	4.432	ug/l #	52
38) Carbon Tetrachloride	5.63	117	49753	4.996	ug/l #	17
49) 1,4-Dioxane	7.89	88	357	2.538	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	237454	23.939	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	237454	60.320	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	464	2.727	ug/l #	12

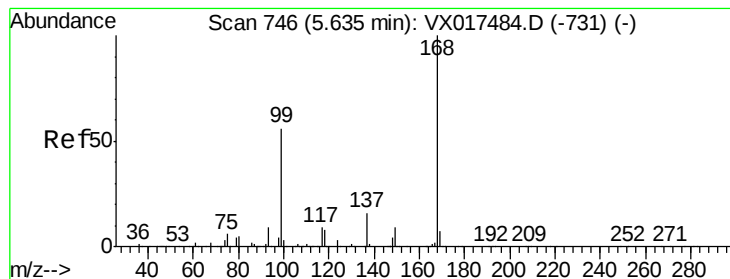
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

Instrument :

MSVOA_X

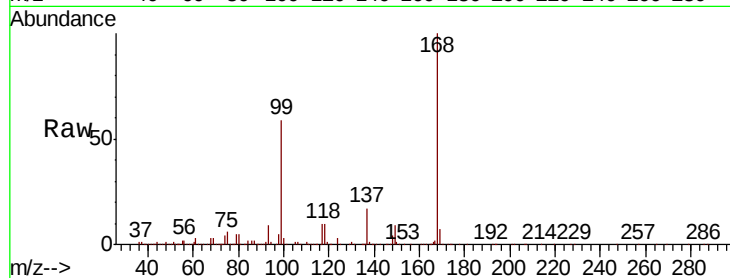
ClientSampleId :

Tot Ion:168 Resp: 510604

Ion Ratio Lower Upper

168 100

99 58.5 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

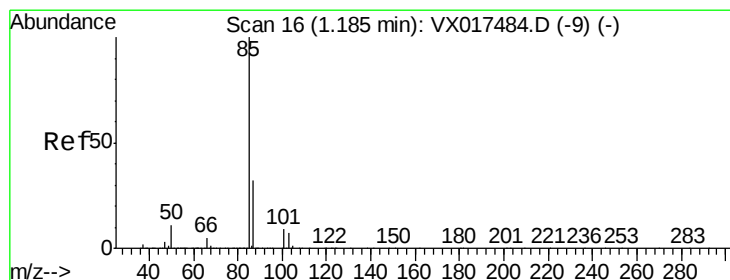
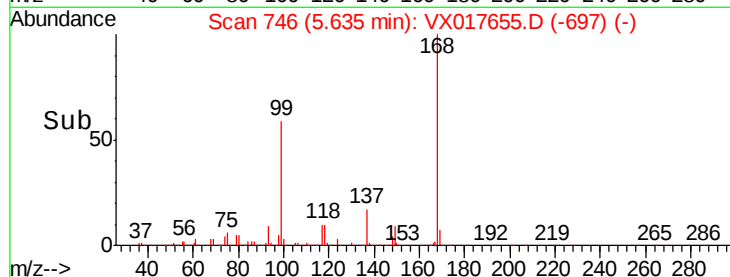
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017655.D

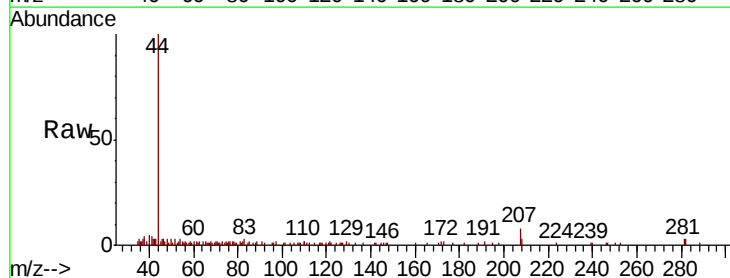
Acq: 28 Jul 2020 16:04

Tgt Ion: 85 Resp: 327

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

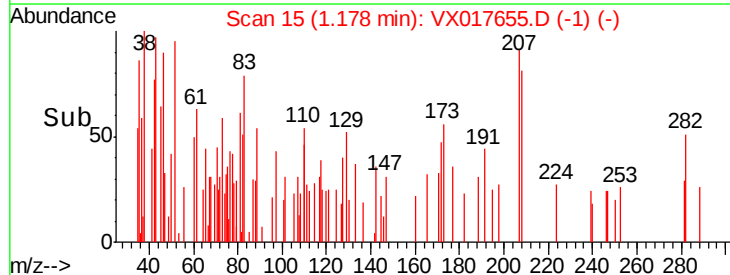
200

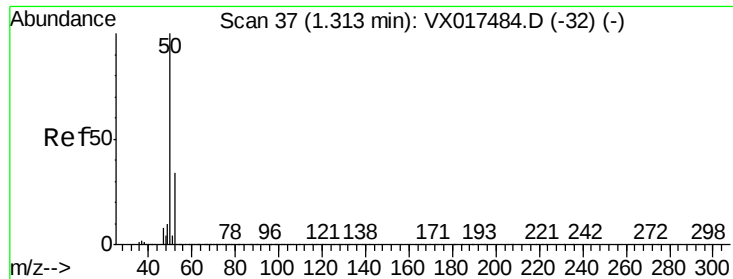
100

0

Time-->

1.14 1.16 1.18 1.20





#3

Chloromethane

Concen: 1.041 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

Instrument :

MSVOA_X

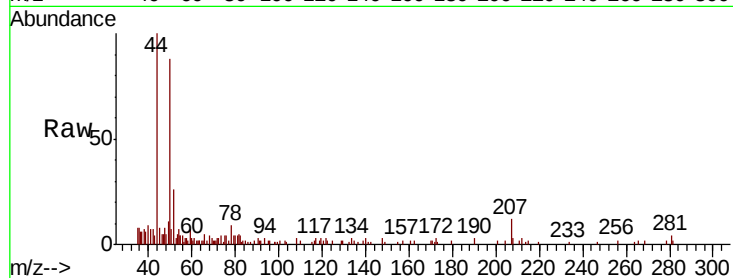
ClientSampleId :

Tot Ion: 50 Resp: 4284

Ion Ratio Lower Upper

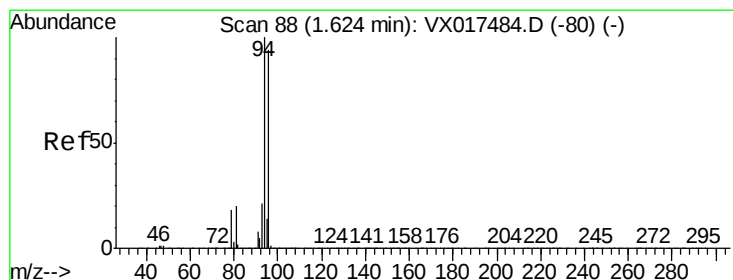
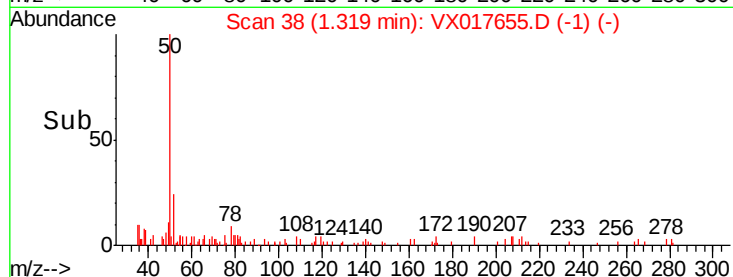
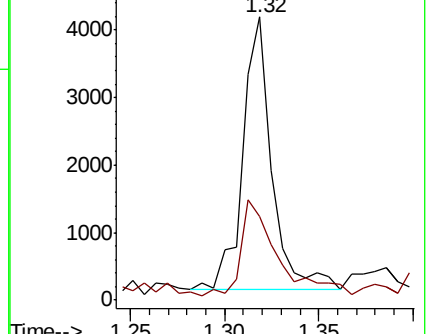
50 100

52 27.6 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: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX017655.D

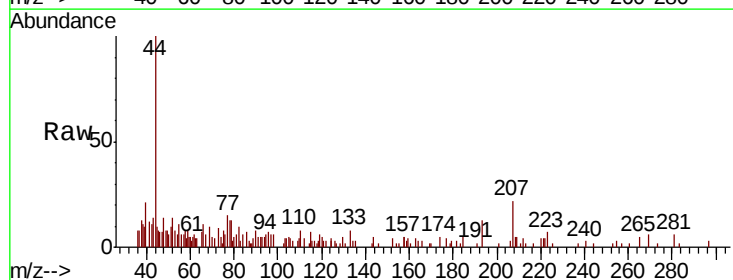
Acq: 28 Jul 2020 16:04

Tgt Ion: 94 Resp: 170

Ion Ratio Lower Upper

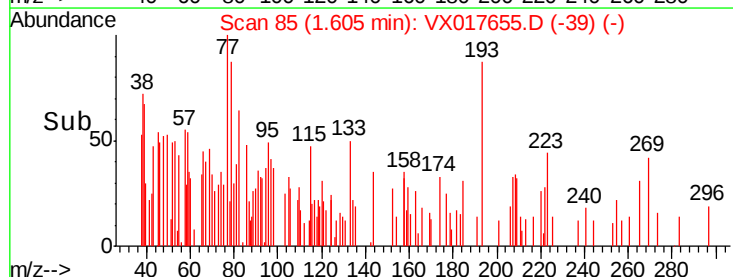
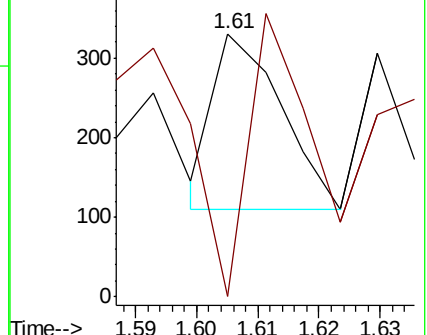
94 100

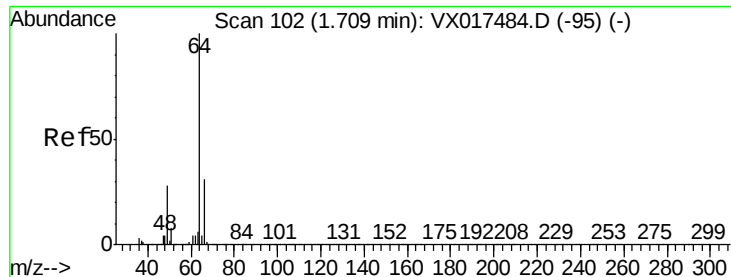
96 0.0 74.1 111.1#



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: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

Instrument :

MSVOA_X

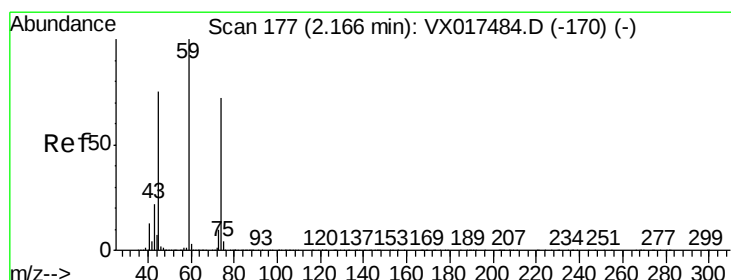
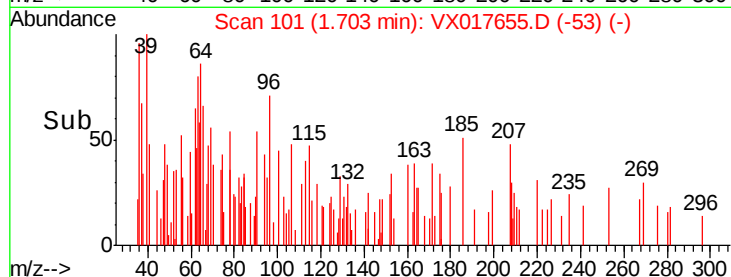
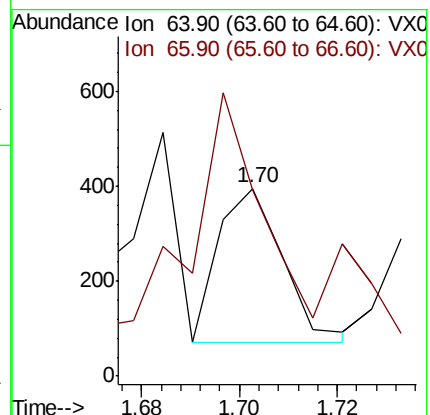
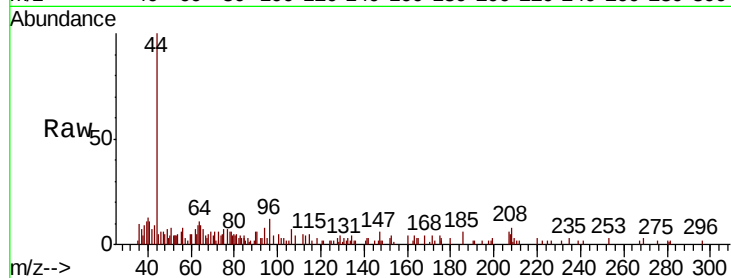
ClientSampled :

Tot Ion: 64 Resp: 298

Ion Ratio Lower Upper

64 100

66 26.6 24.9 37.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017655.D

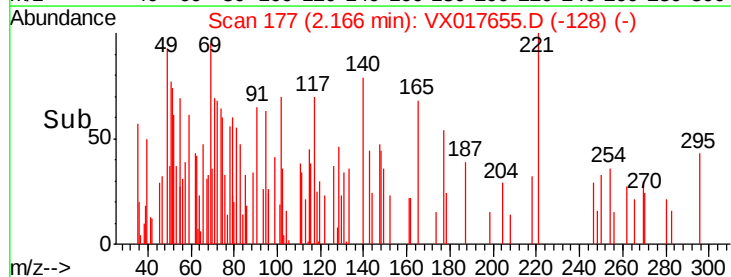
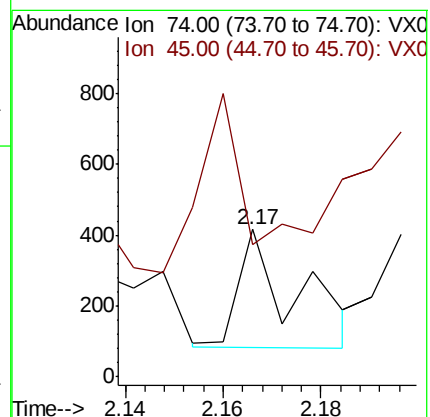
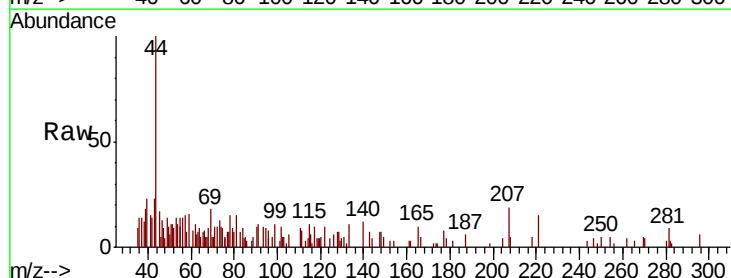
Acq: 28 Jul 2020 16:04

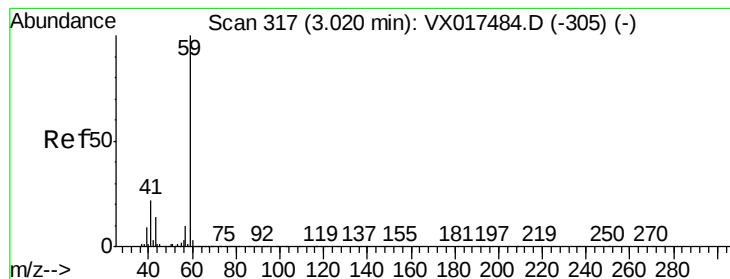
Tgt Ion: 74 Resp: 271

Ion Ratio Lower Upper

74 100

45 136.2 50.8 152.5



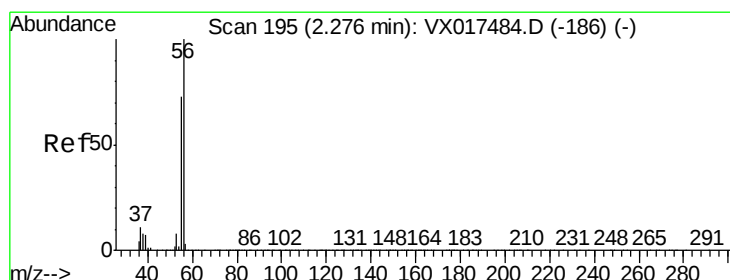
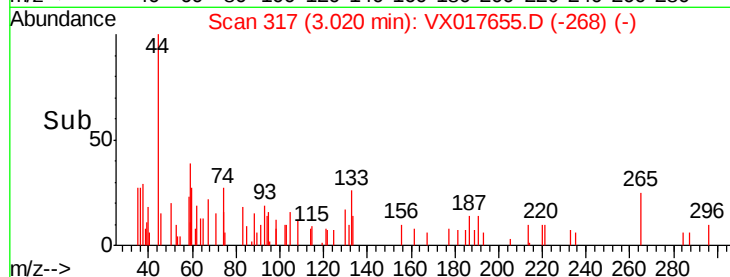
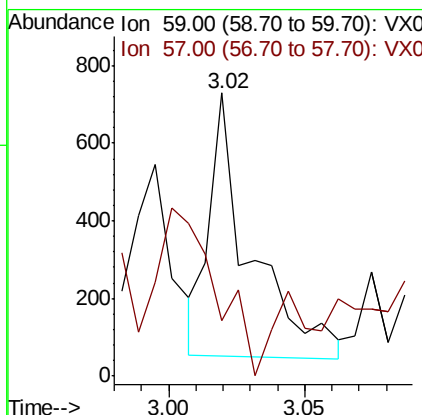
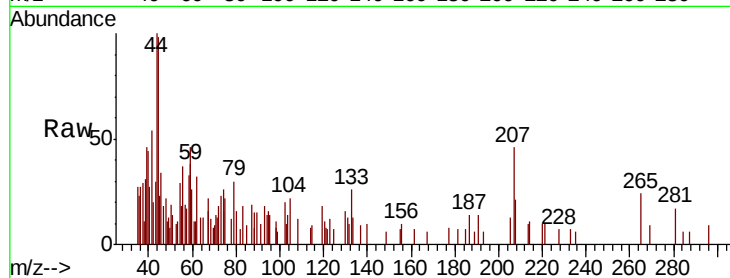


#11

Tert butyl alcohol
 Concen: 0.511 ug/l
 RT: 3.02 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VX017655.D
 Acq: 28 Jul 2020 16:04

Instrument :
 MSVOA_X
 ClientSampled :

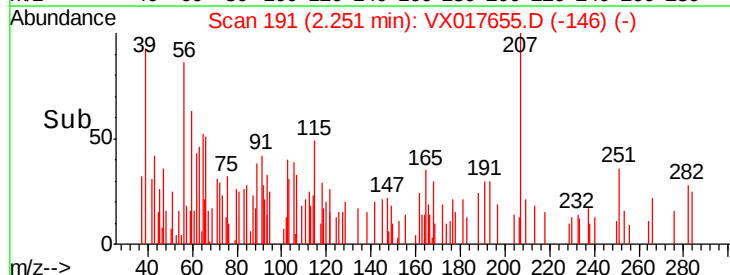
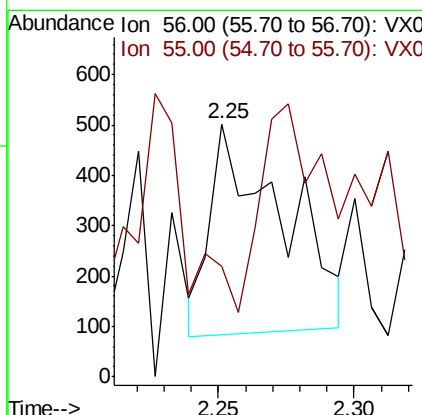
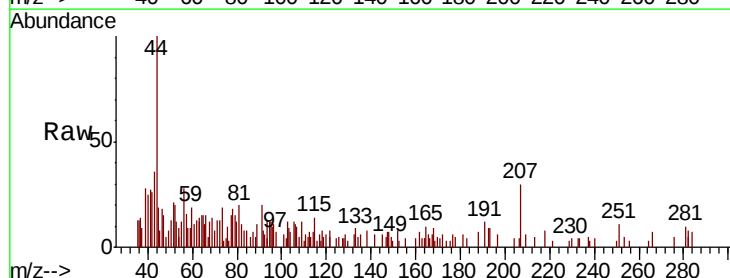
Tot Ion: 59 Resp: 707
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#

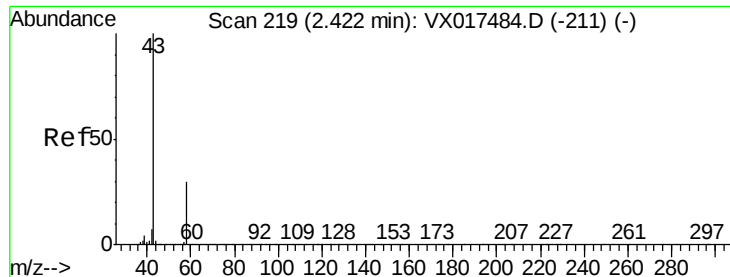


#13

Acrolein
 Concen: 4.866 ug/l
 RT: 2.25 min Scan# 191
 Delta R.T. -0.02 min
 Lab File: VX017655.D
 Acq: 28 Jul 2020 16:04

Tgt Ion: 56 Resp: 770
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.4 86.2#





#16

Acetone

Concen: 4.629 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

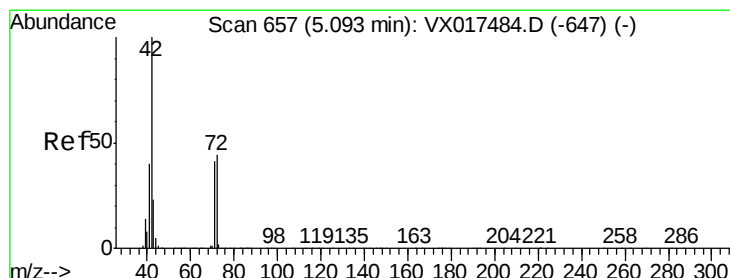
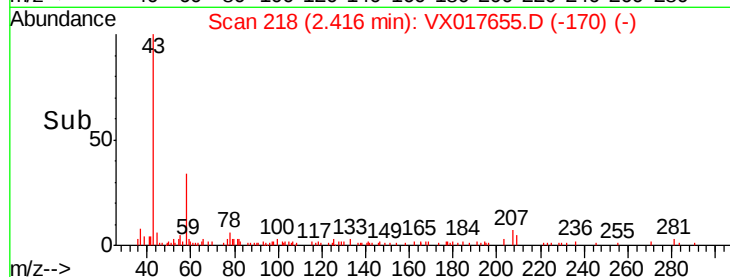
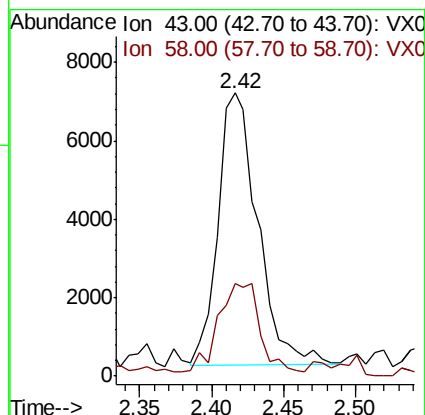
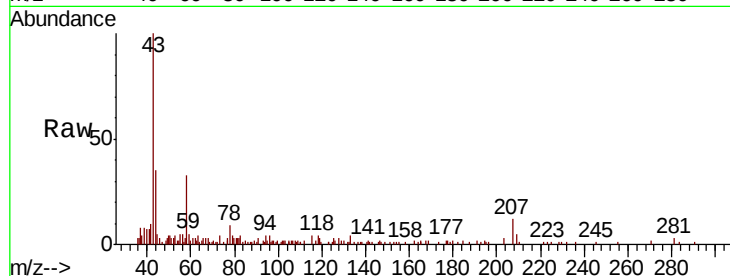
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 13363

Ion Ratio Lower Upper

43 100

58 31.8 24.2 36.4



#29

Tetrahydrofuran

Concen: 0.219 ug/l

RT: 5.12 min Scan# 662

Delta R.T. 0.03 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

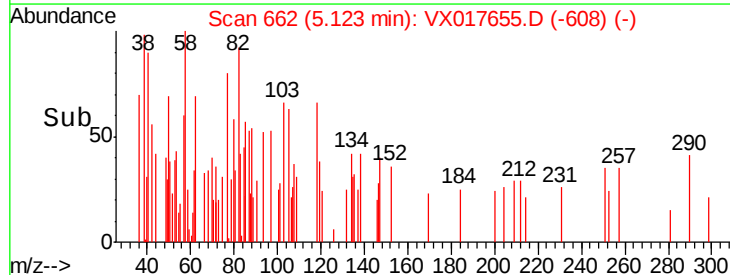
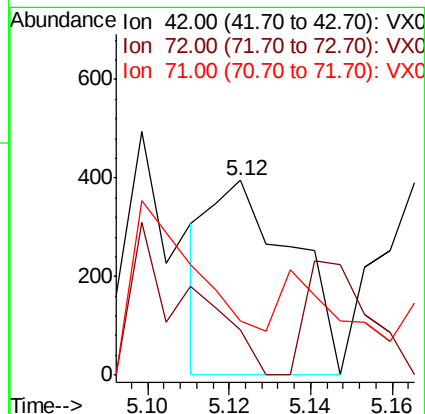
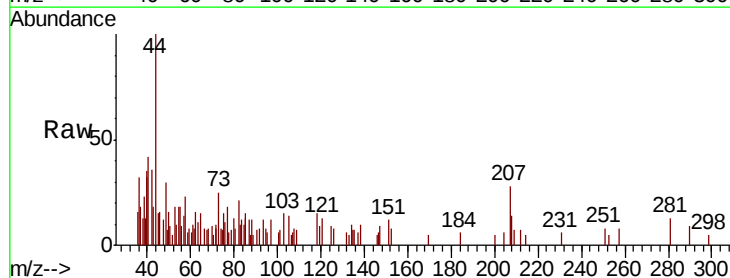
Tgt Ion: 42 Resp: 556

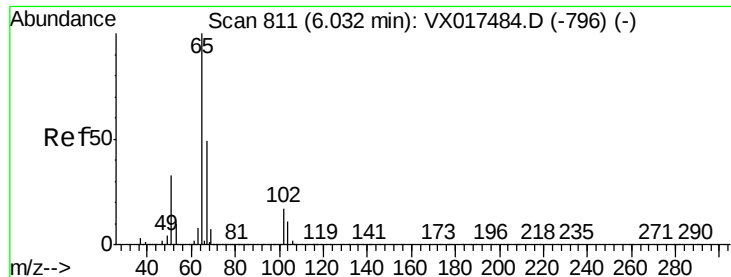
Ion Ratio Lower Upper

42 100

72 43.9 35.5 53.3

71 43.3 33.0 49.4





#33

1,2-Dichloroethane-d4

Concen: 53.247 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

Instrument :

MSVOA_X

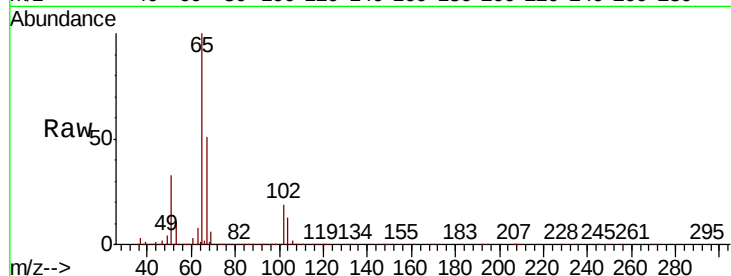
ClientSampled :

Tot Ion: 65 Resp: 349245

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

150000

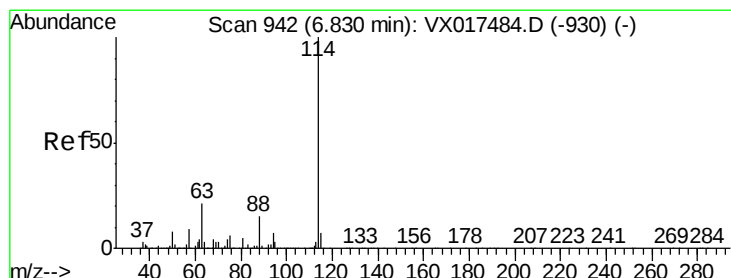
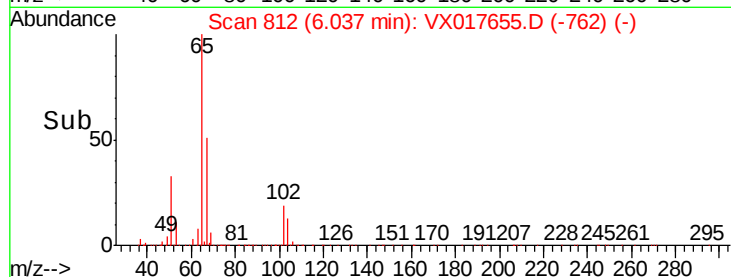
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

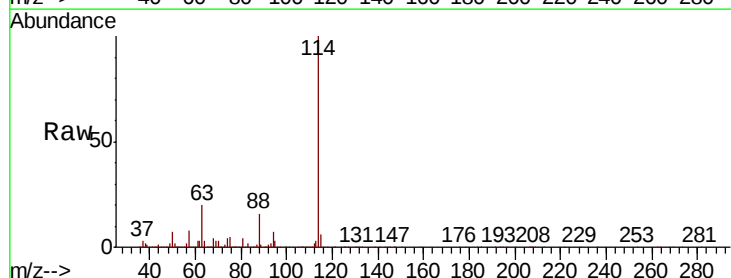
Tgt Ion: 114 Resp: 854992

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

88 15.8 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

500000

400000

300000

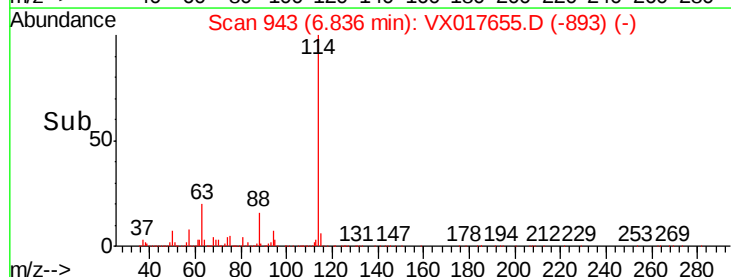
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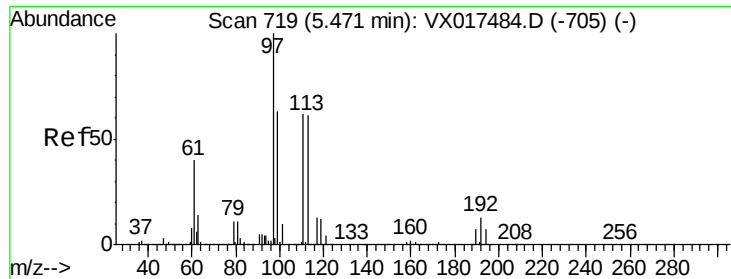
100000

0

Time-->

6.70 6.80 6.90

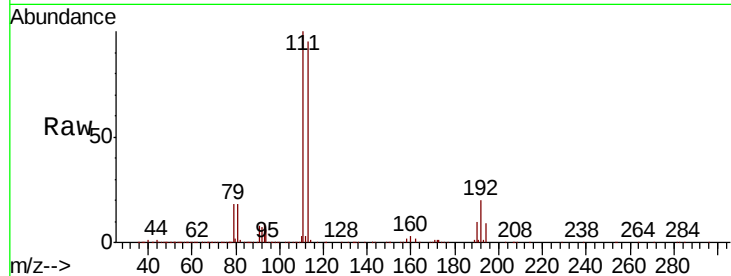




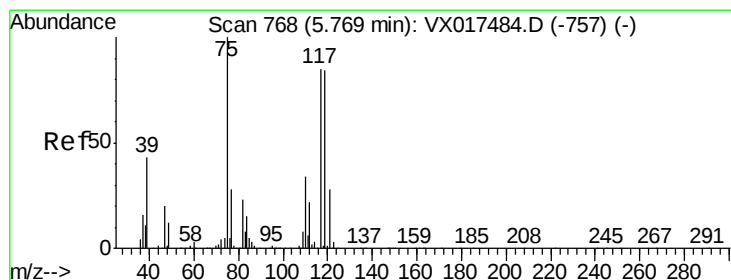
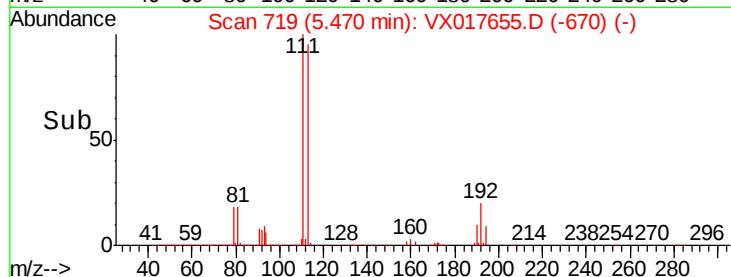
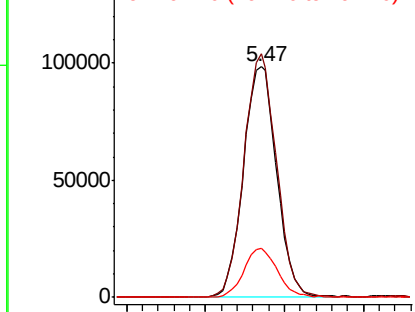
#35
 Dibromofluoromethane
 Concen: 50.575 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017655.D
 Acq: 28 Jul 2020 16:04

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.7	121.1
192	21.5	16.9	25.3

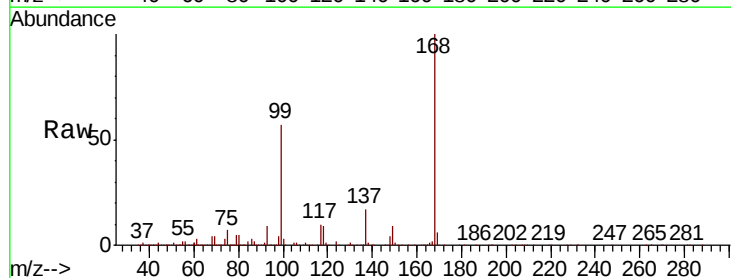


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

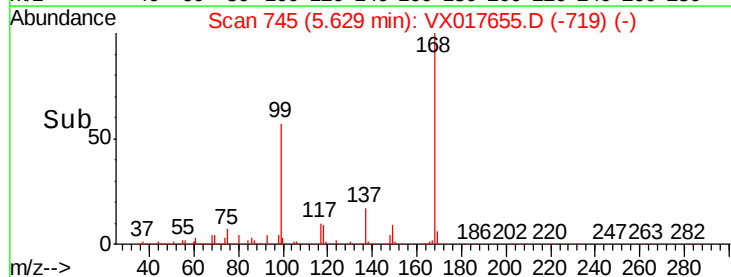
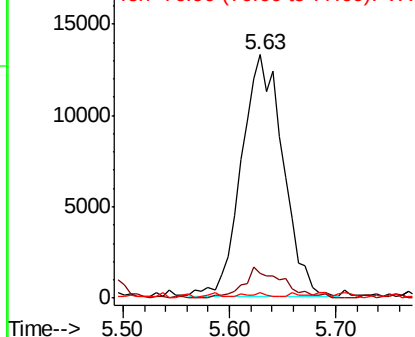


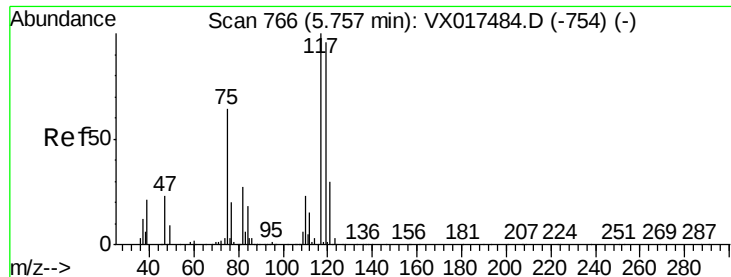
#36
 1,1-Dichloropropene
 Concen: 4.432 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017655.D
 Acq: 28 Jul 2020 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.7	18.1	54.3#
77	0.8	24.6	37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.996 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

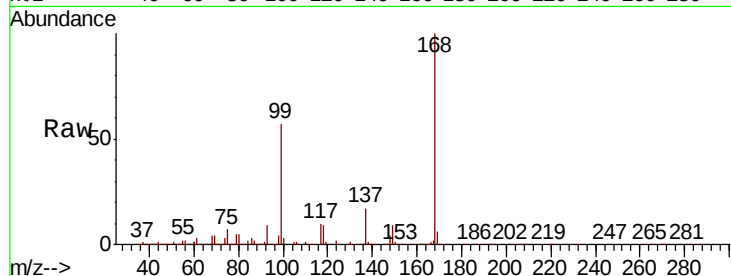
Tot Ion:117 Resp: 49753

Ion Ratio Lower Upper

117 100

119 5.6 75.4 113.0#

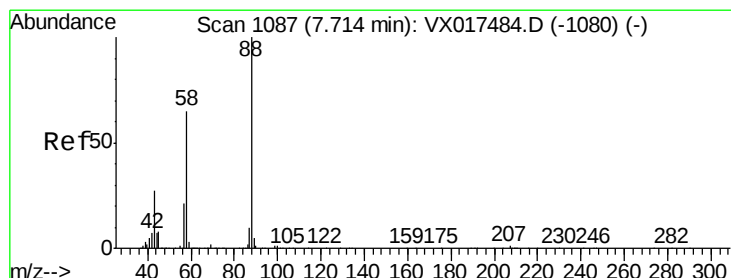
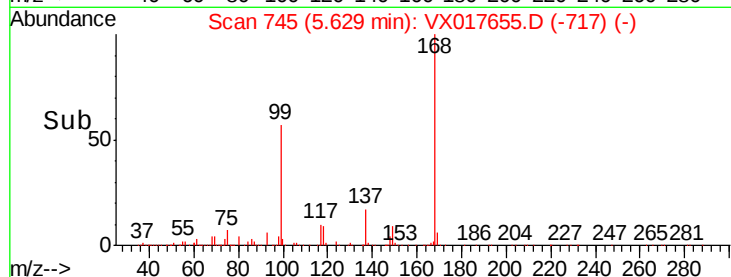
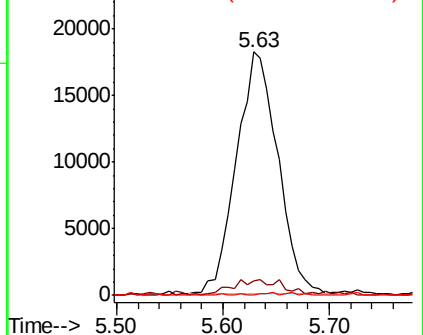
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 2.538 ug/l

RT: 7.89 min Scan# 1116

Delta R.T. 0.18 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

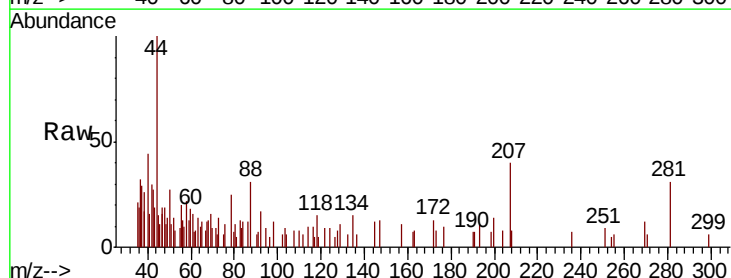
Tgt Ion: 88 Resp: 357

Ion Ratio Lower Upper

88 100

43 30.5 27.8 41.6

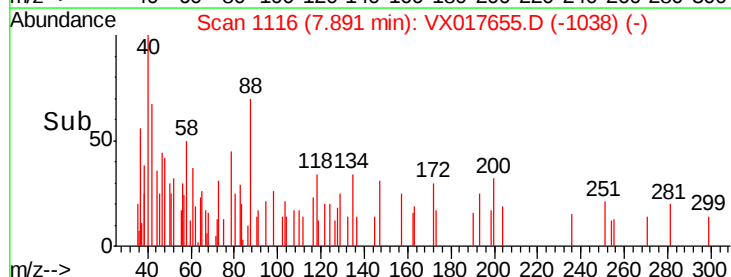
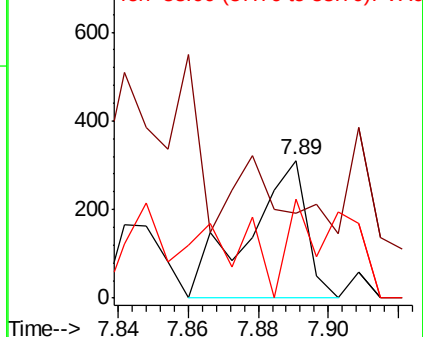
58 70.0 58.3 87.5

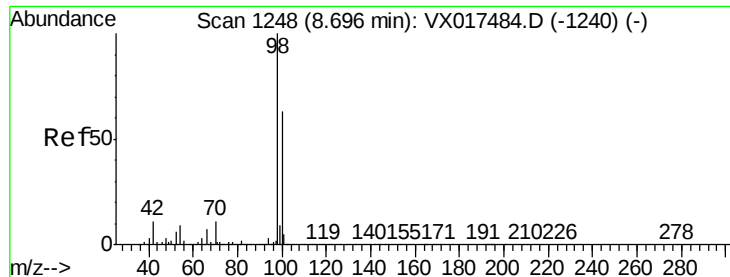


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.474 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

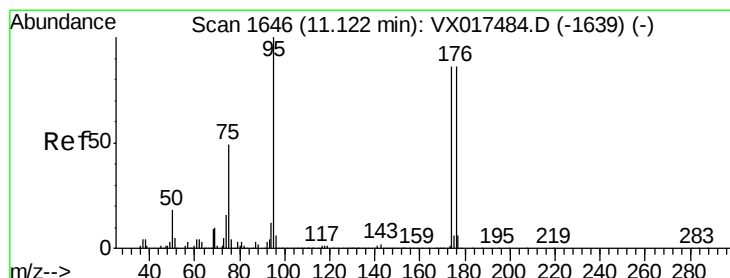
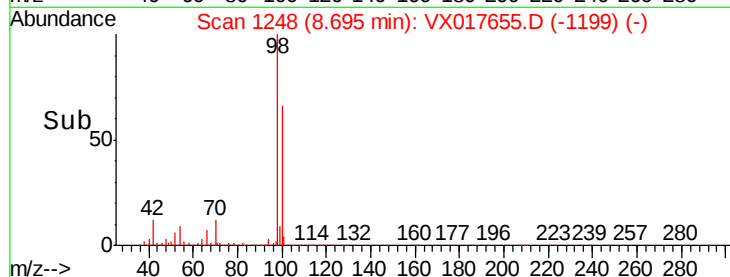
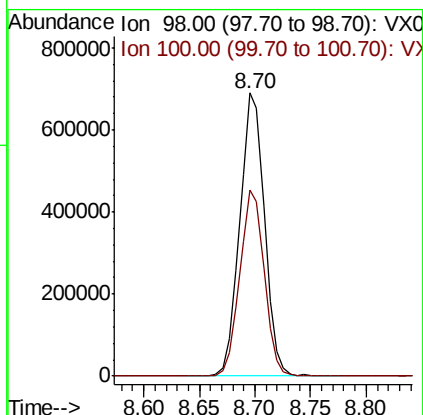
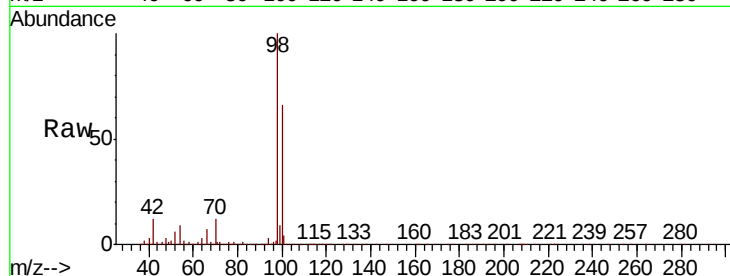
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 1061835

Ion Ratio Lower Upper

98 100

100 65.3 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 55.096 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

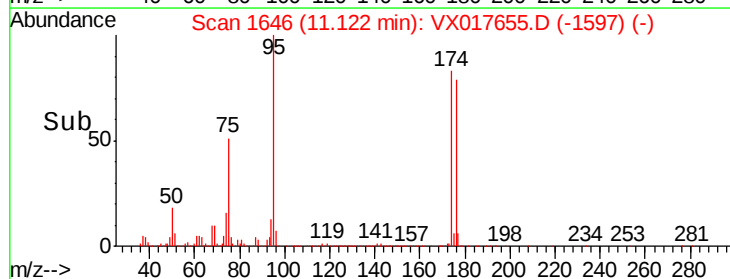
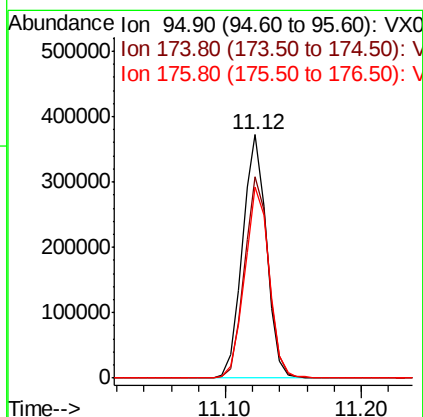
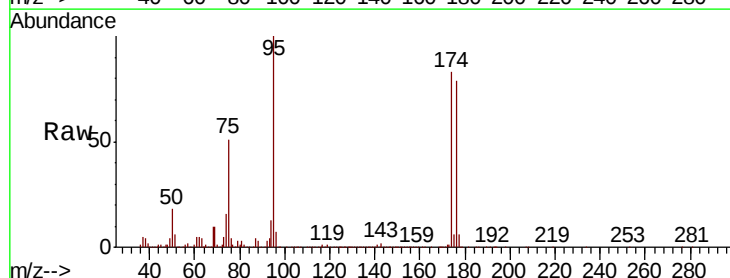
Tgt Ion: 95 Resp: 454848

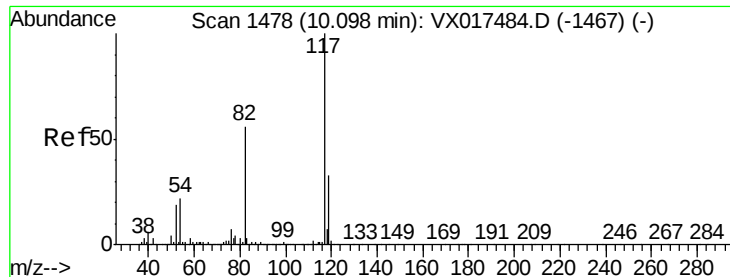
Ion Ratio Lower Upper

95 100

174 84.2 0.0 169.0

176 80.8 0.0 161.0

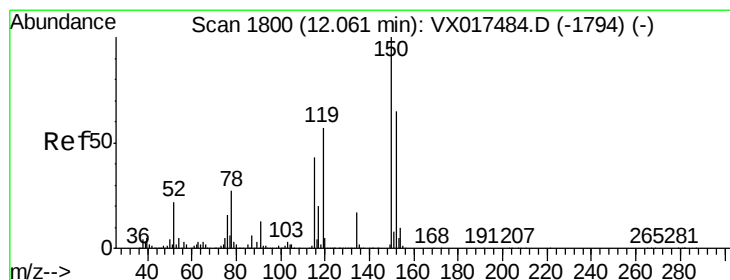
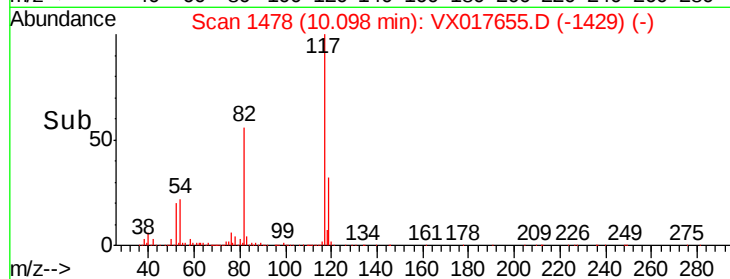
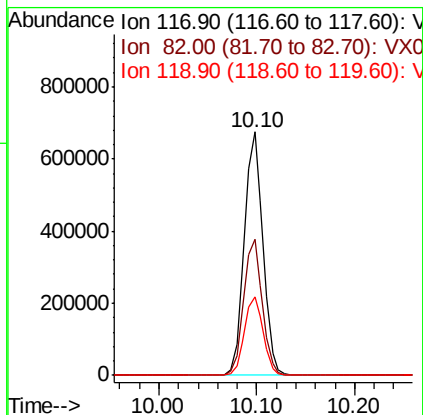
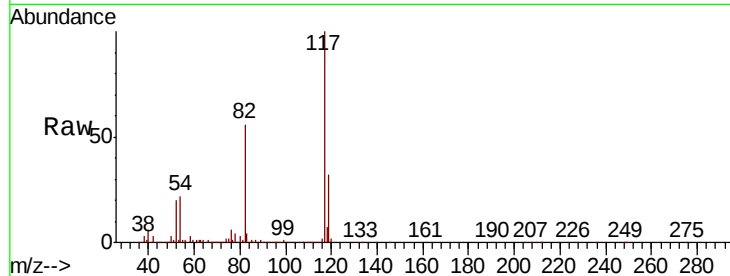




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017655.D
Acq: 28 Jul 2020 16:04

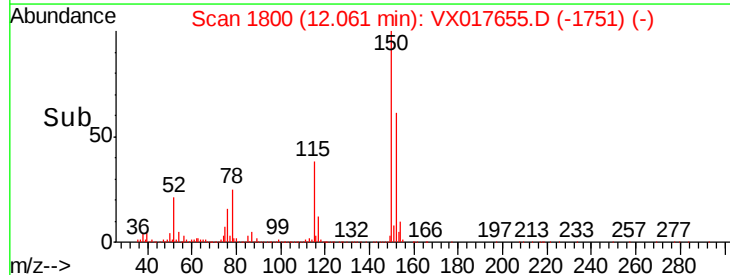
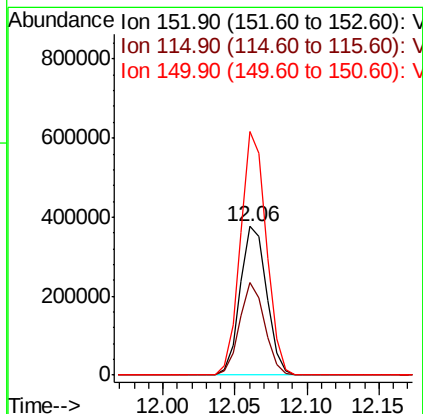
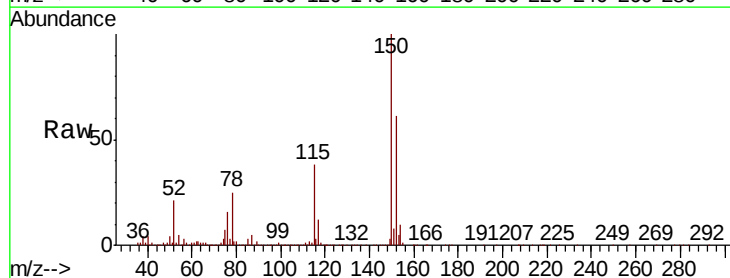
Instrument :
MSVOA_X
ClientSampleId :

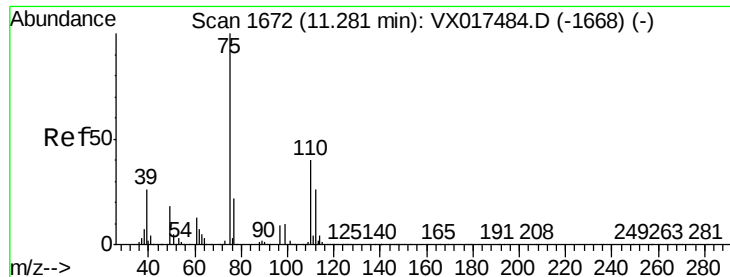
Tot Ion:117 Resp: 889648
Ion Ratio Lower Upper
117 100
82 55.7 44.0 66.0
119 32.5 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017655.D
Acq: 28 Jul 2020 16:04

Tgt Ion:152 Resp: 482209
Ion Ratio Lower Upper
152 100
115 58.9 65.5 196.6#
150 159.6 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.939 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

Instrument :

MSVOA_X

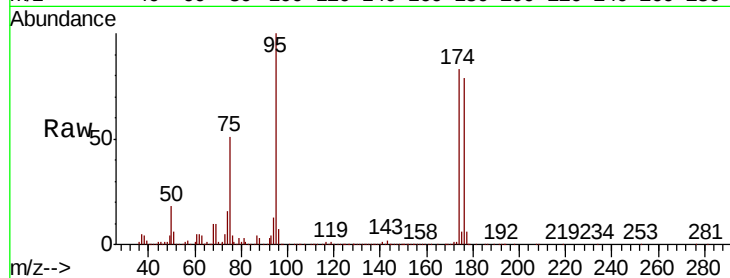
ClientSampled :

Tot Ion: 75 Resp: 237454

Ion Ratio Lower Upper

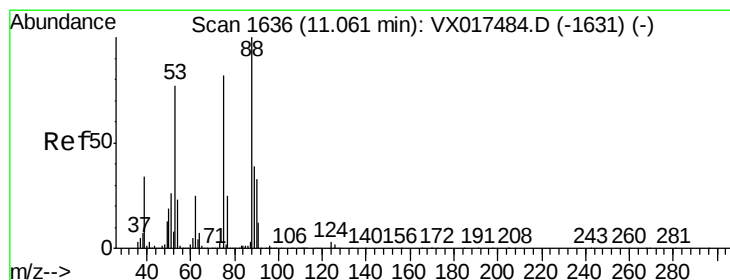
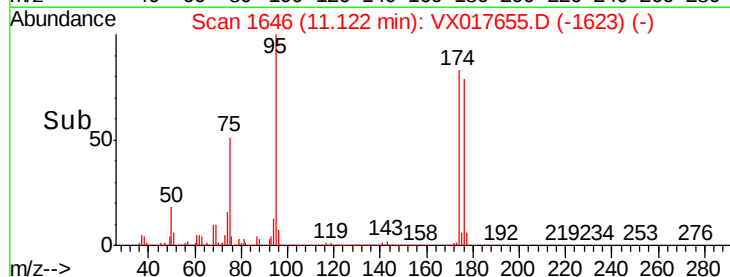
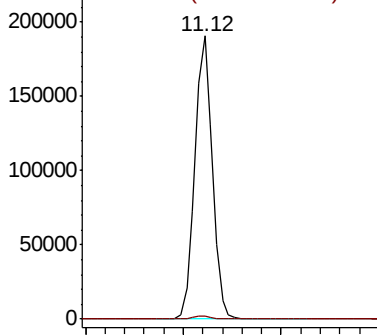
75 100

77 1.3 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: 60.320 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

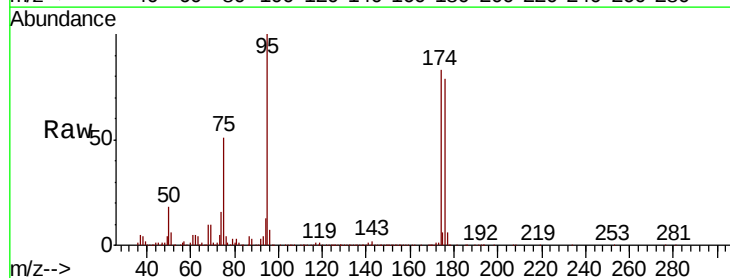
Tgt Ion: 75 Resp: 237454

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

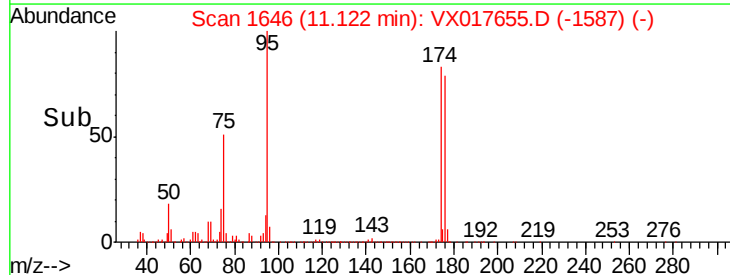
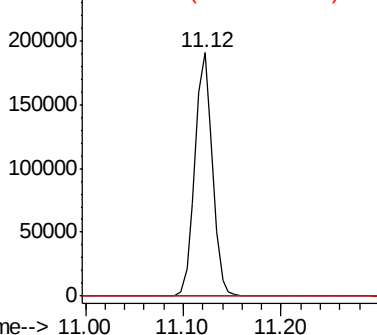
89 0.1 37.8 56.6#

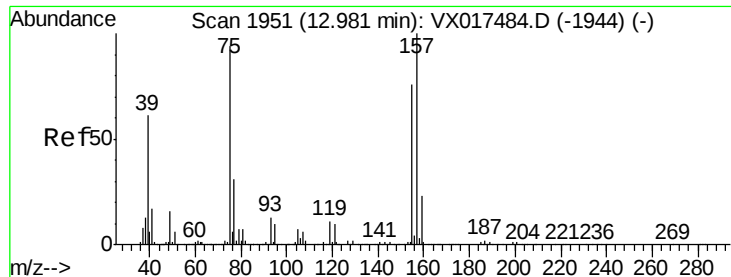


Abundance Ion 74.90 (74.60 to 75.60): VX0

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: 2.727 ug/l

RT: 12.99 min Scan# 1952

Delta R.T. 0.01 min

Lab File: VX017655.D

Acq: 28 Jul 2020 16:04

Instrument :

MSVOA_X

ClientSampleId :

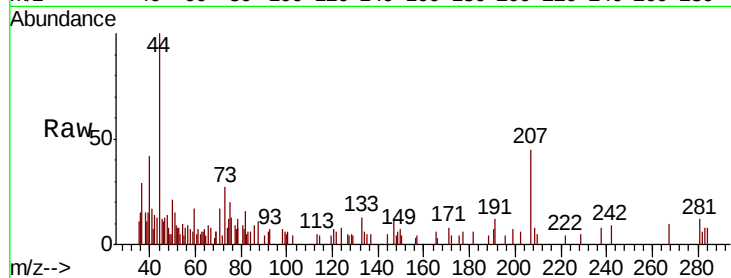
Tot Ion: 75 Resp: 464

Ion Ratio Lower Upper

75 100

155 11.6 42.3 126.8#

157 9.7 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

