

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072820\
 Data File : VX017652.D
 Acq On : 28 Jul 2020 14:46
 Operator : JC/SP
 Sample : L3371-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 29 02:27:26 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	491215	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	821948	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	868779	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	474531	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	338173	53.59	ug/l	0.00
Spiked Amount			Recovery	=	107.18%	
35) Dibromofluoromethane	5.47	113	277638	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
50) Toluene-d8	8.70	98	1015422	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	11.12	95	453779	57.18	ug/l	0.00
Spiked Amount			Recovery	=	114.36%	

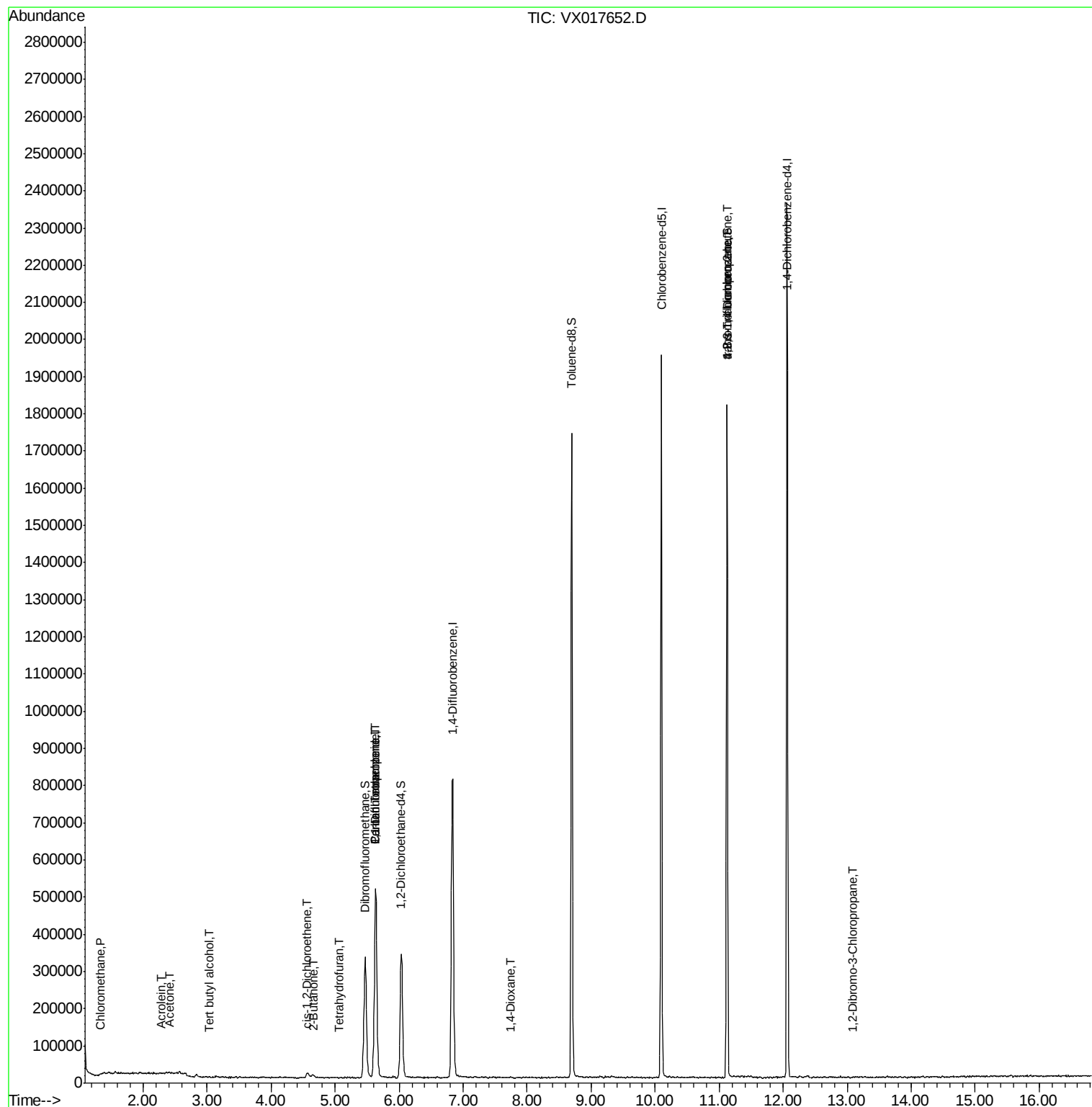
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	178	Below Cal		90
3) Chloromethane	1.32	50	741	0.488 ug/l #		42
5) Bromomethane	1.62	94	399	Below Cal #		25
6) Chloroethane	1.73	64	223	Below Cal #		44
8) Diethyl Ether	2.12	74	220	Below Cal		62
11) Tert butyl alcohol	3.02	59	1019	0.766 ug/l #		61
13) Acrolein	2.28	56	415	4.551 ug/l #		80
16) Acetone	2.42	43	3709	1.336 ug/l #		58
20) Methylene Chloride	2.84	84	4343	Below Cal #		73
25) 2-Butanone	4.67	43	1472	0.373 ug/l #		52
27) cis-1,2-Dichloroethene	4.56	96	8312	1.408 ug/l		90
29) Tetrahydrofuran	5.06	42	996	0.408 ug/l #		37
36) 1,1-Dichloropropene	5.63	75	36415	4.619 ug/l #		53
38) Carbon Tetrachloride	5.64	117	48675	5.085 ug/l #		19
49) 1,4-Dioxane	7.73	88	559	4.133 ug/l #		50
76) 1,2,3-Trichloropropane	11.12	75	227343	23.290 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	227343	58.686 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	13.08	75	82	2.604 ug/l		90

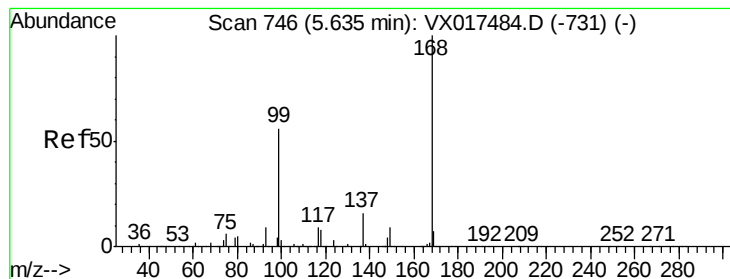
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

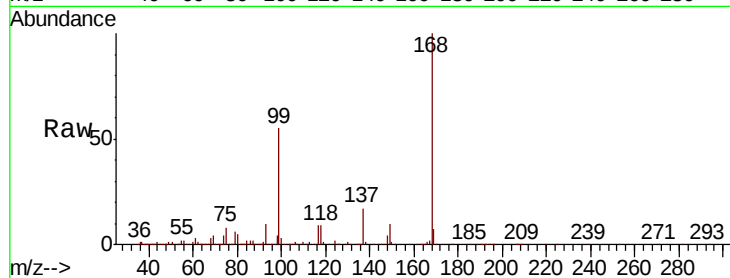
ClientSampleId :

Tot Ion:168 Resp: 491215

Ion Ratio Lower Upper

168 100

99 55.0 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

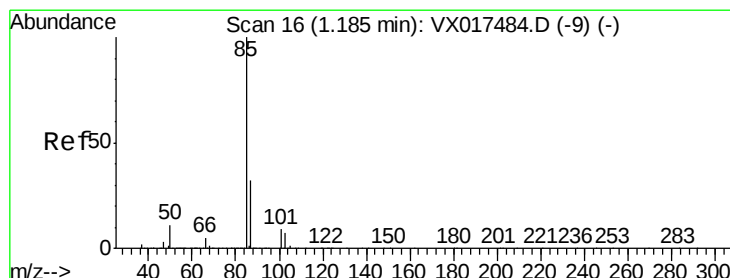
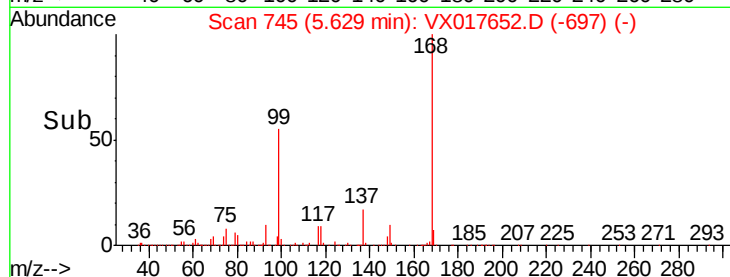
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017652.D

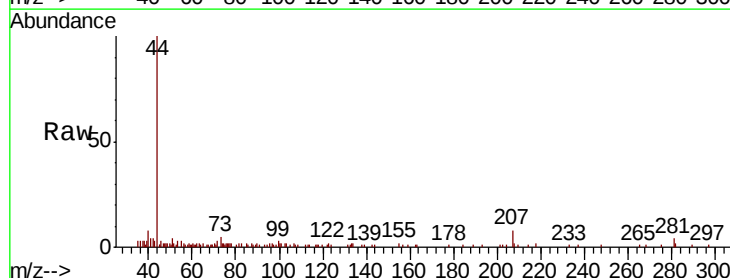
Acq: 28 Jul 2020 14:46

Tgt Ion: 85 Resp: 178

Ion Ratio Lower Upper

85 100

87 26.4 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

200

150

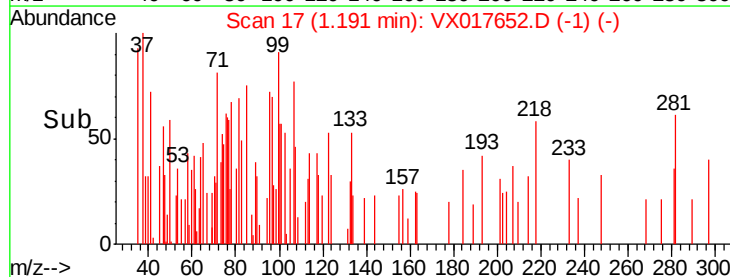
100

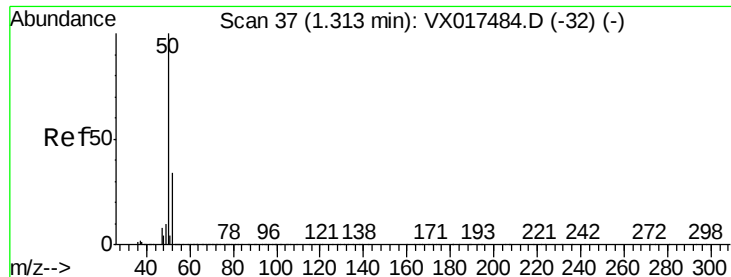
50

0

Time-->

1.17 1.18 1.19 1.20





#3

Chloromethane

Concen: 0.488 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

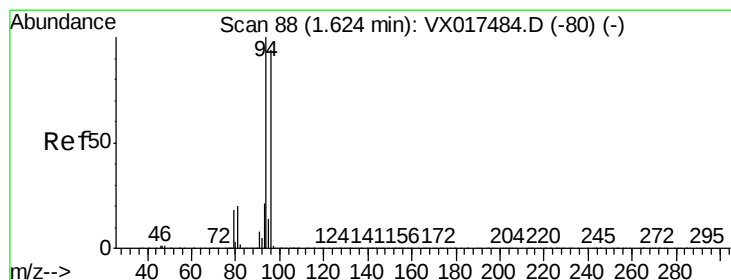
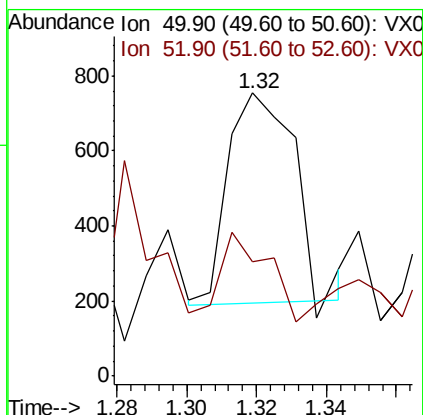
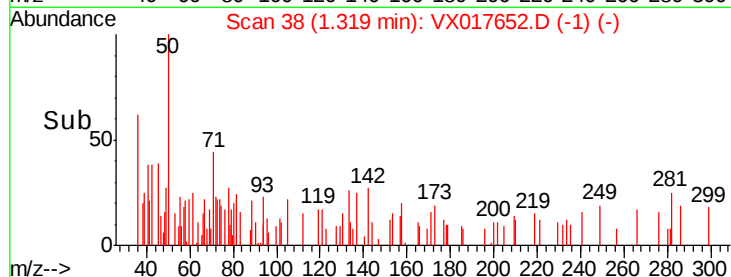
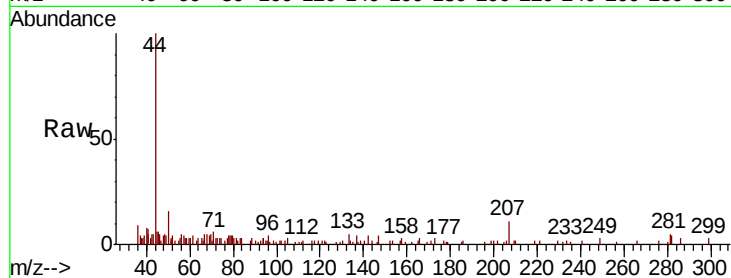
ClientSampled :

Tot Ion: 50 Resp: 741

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX017652.D

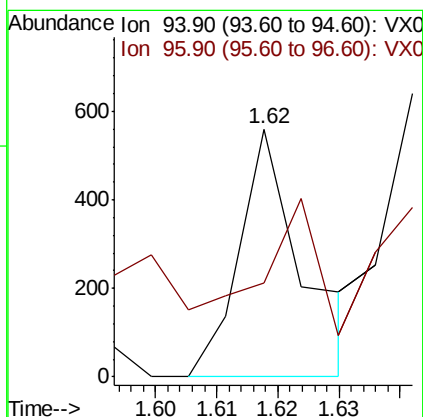
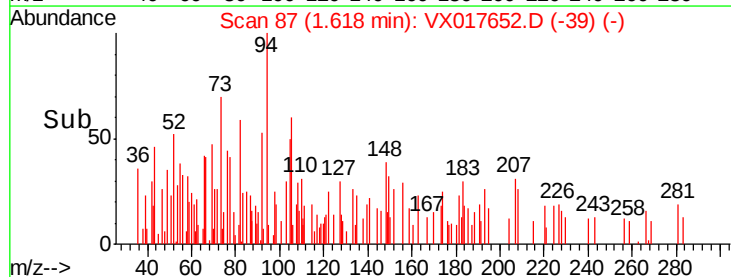
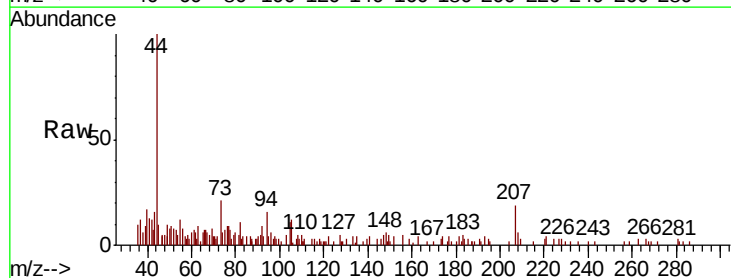
Acq: 28 Jul 2020 14:46

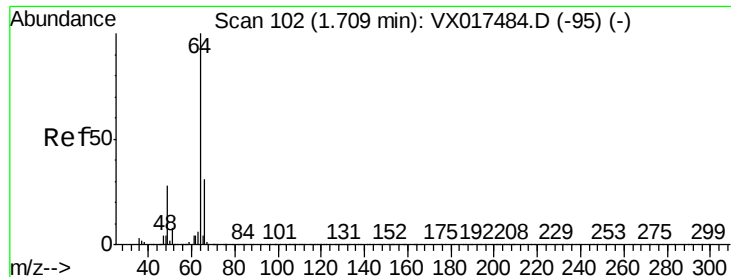
Tgt Ion: 94 Resp: 399

Ion Ratio Lower Upper

94 100

96 21.1 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 106

Delta R.T. 0.02 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

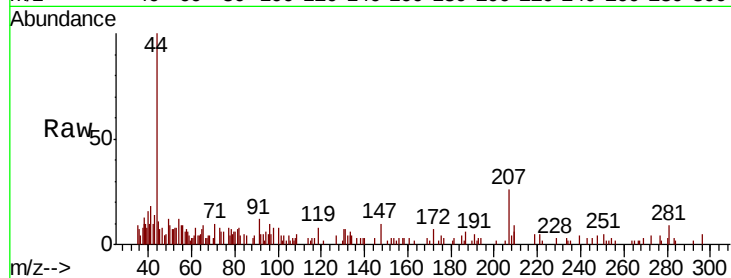
ClientSampled :

Tot Ion: 64 Resp: 223

Ion Ratio Lower Upper

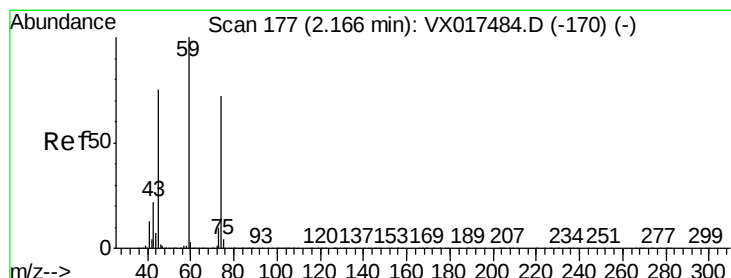
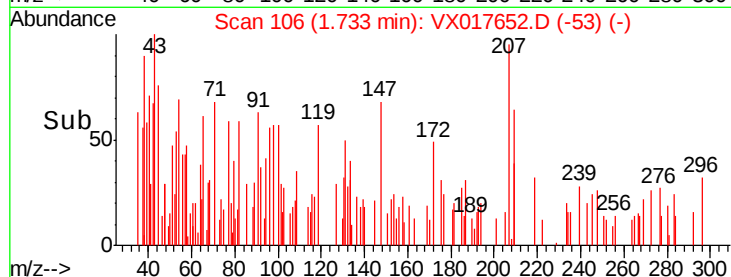
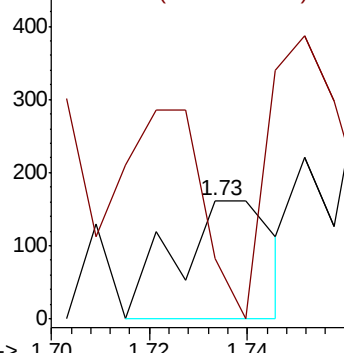
64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.12 min Scan# 170

Delta R.T. -0.04 min

Lab File: VX017652.D

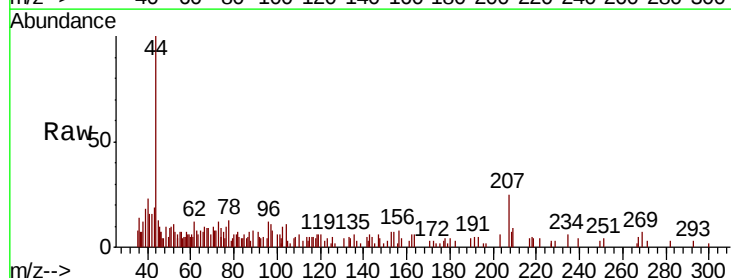
Acq: 28 Jul 2020 14:46

Tgt Ion: 74 Resp: 220

Ion Ratio Lower Upper

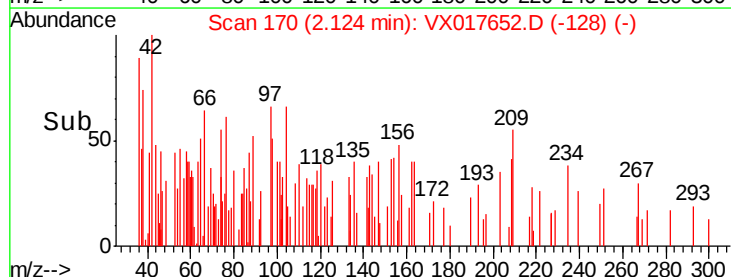
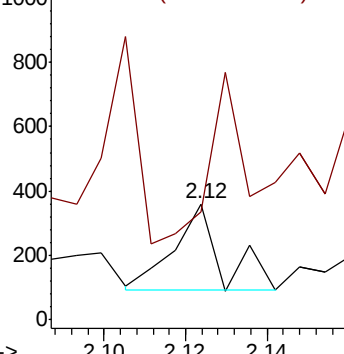
74 100

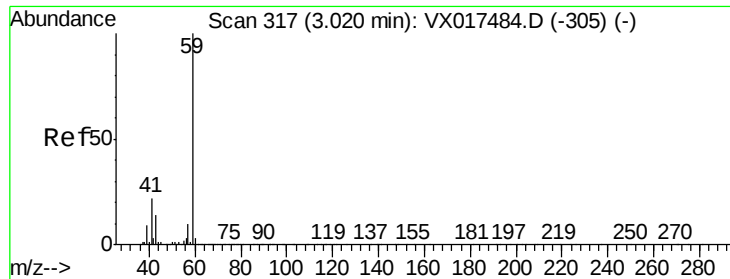
45 140.5 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



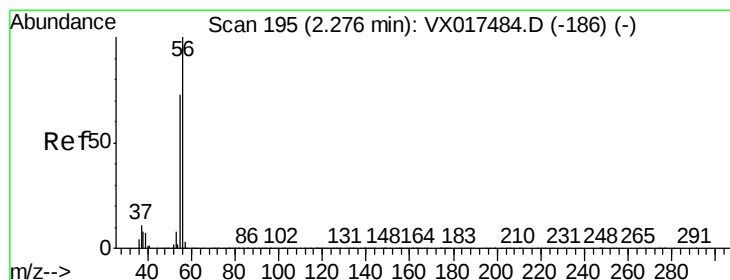
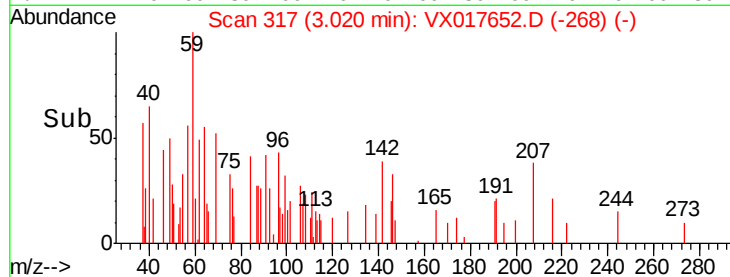
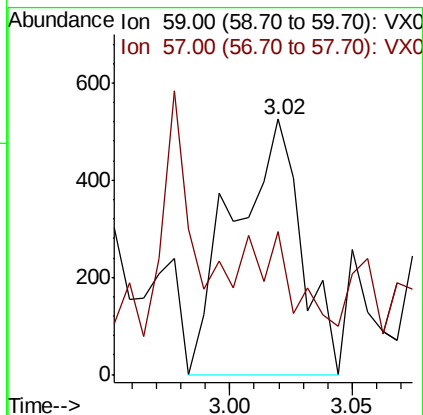
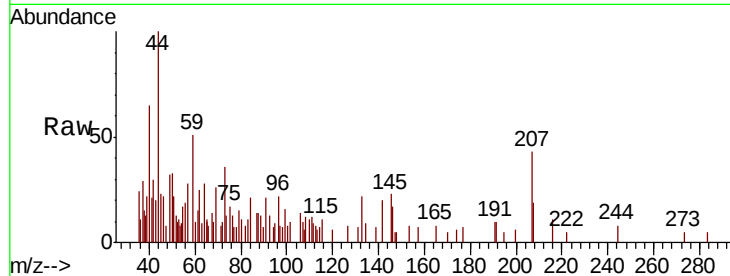


#11

Tert butyl alcohol
 Concen: 0.766 ug/l
 RT: 3.02 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VX017652.D
 Acq: 28 Jul 2020 14:46

Instrument :
 MSVOA_X
 ClientSampleId :

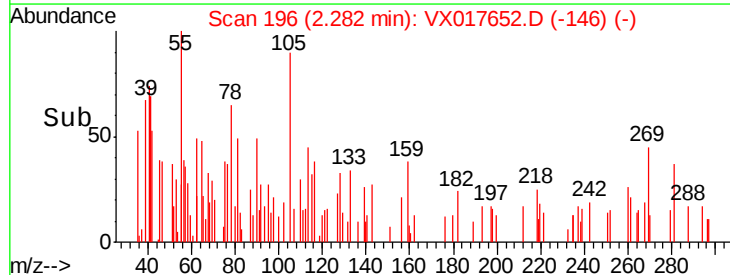
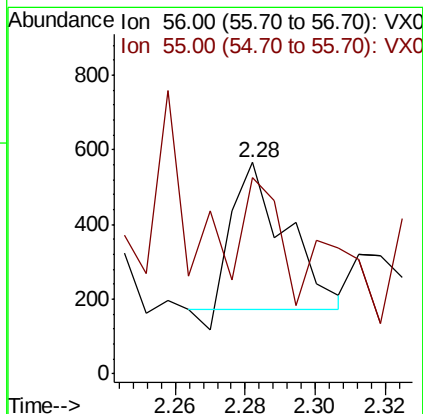
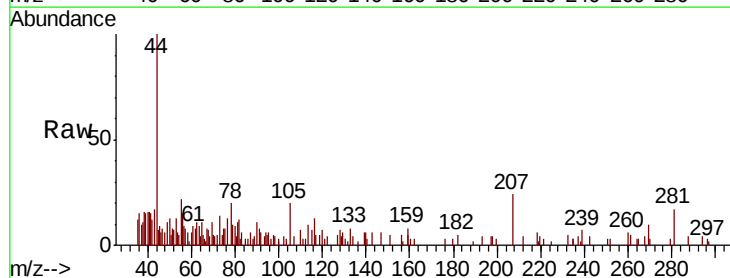
Tot Ion: 59 Resp: 1019
 Ion Ratio Lower Upper
 59 100
 57 25.3 8.6 12.8#

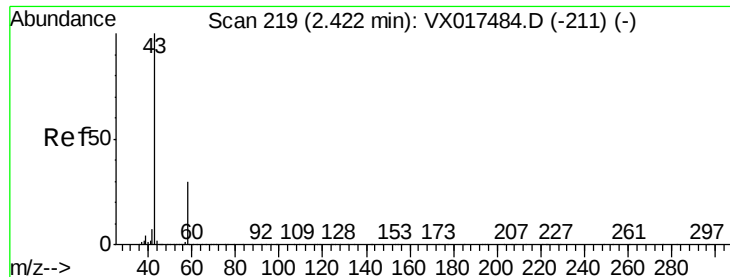


#13

Acrolein
 Concen: 4.551 ug/l
 RT: 2.28 min Scan# 196
 Delta R.T. 0.01 min
 Lab File: VX017652.D
 Acq: 28 Jul 2020 14:46

Tgt Ion: 56 Resp: 415
 Ion Ratio Lower Upper
 56 100
 55 55.2 57.4 86.2#

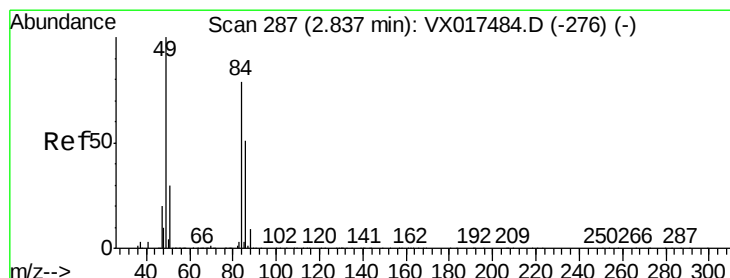
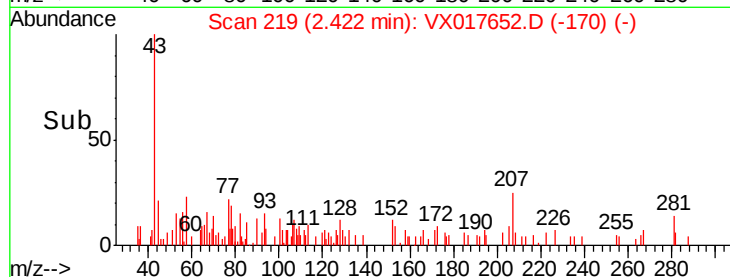
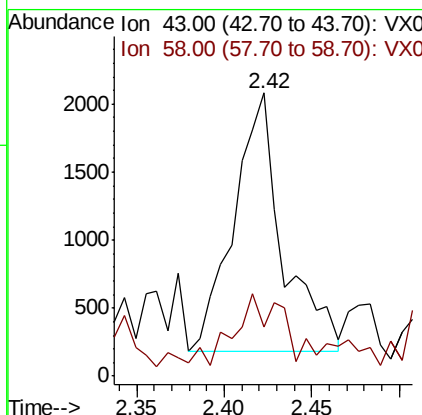
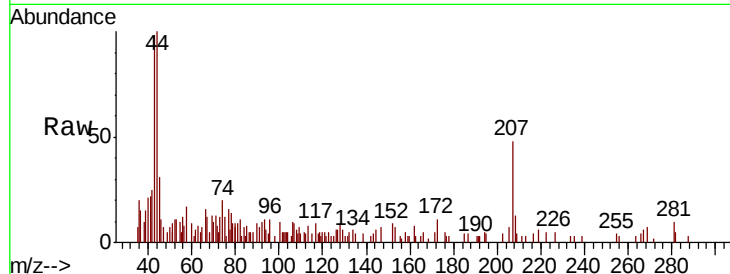




#16
Acetone
Concen: 1.336 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017652.D
Acq: 28 Jul 2020 14:46

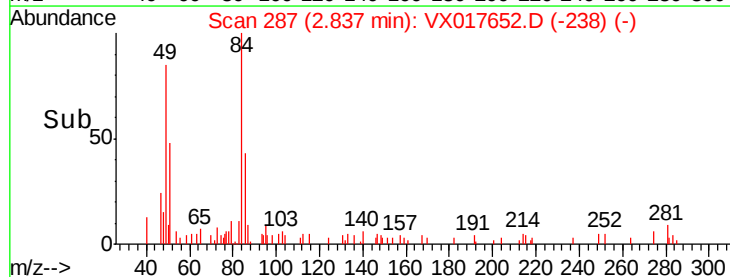
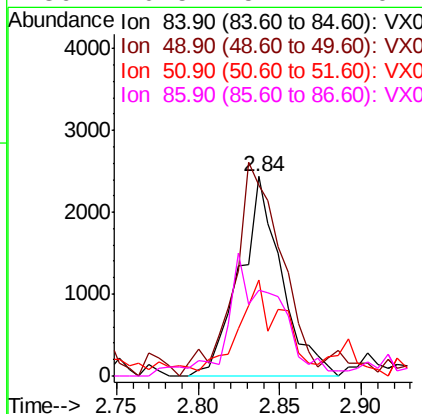
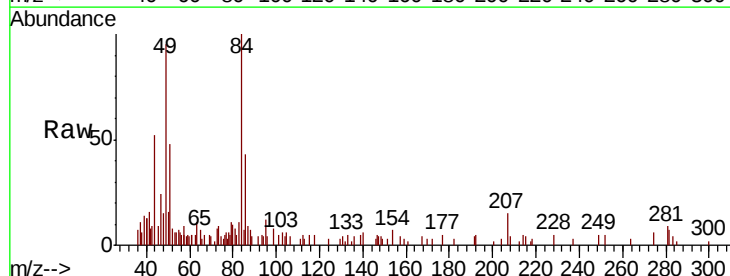
Instrument :
MSVOA_X
ClientSampled :

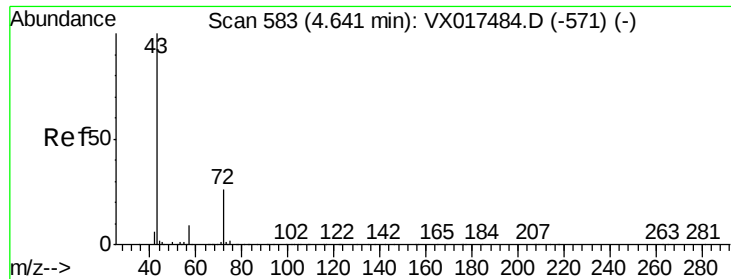
Tot Ion: 43 Resp: 3709
Ion Ratio Lower Upper
43 100
58 7.6 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017652.D
Acq: 28 Jul 2020 14:46

Tgt Ion: 84 Resp: 4343
Ion Ratio Lower Upper
84 100
49 89.2 100.3 150.5#
51 43.3 30.5 45.7
86 40.5 51.1 76.7#





#25

2-Butanone

Concen: 0.373 ug/l

RT: 4.67 min Scan# 587

Delta R.T. 0.02 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

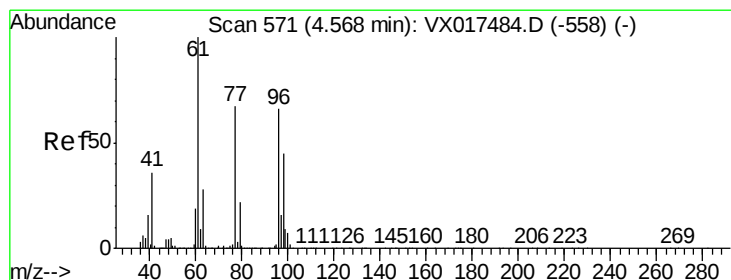
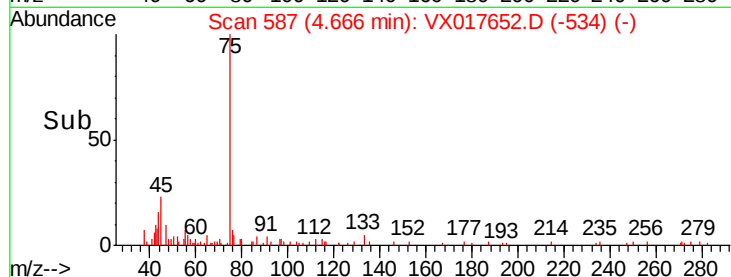
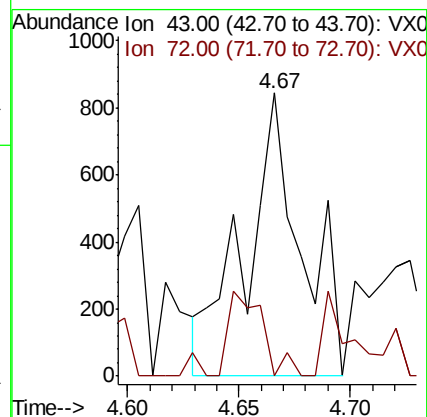
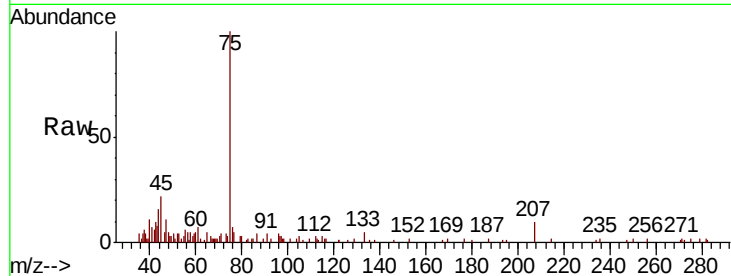
ClientSampleId :

Tot Ion: 43 Resp: 1472

Ion Ratio Lower Upper

43 100

72 0.0 19.0 28.4#



#27

cis-1,2-Dichloroethene

Concen: 1.408 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

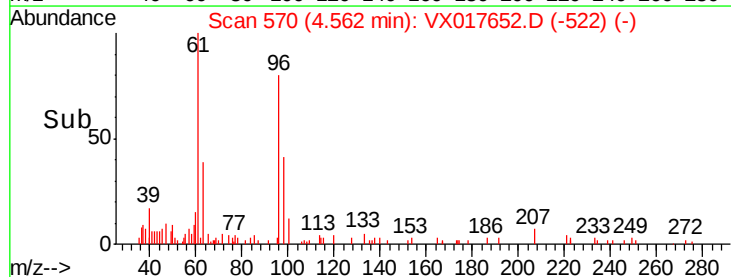
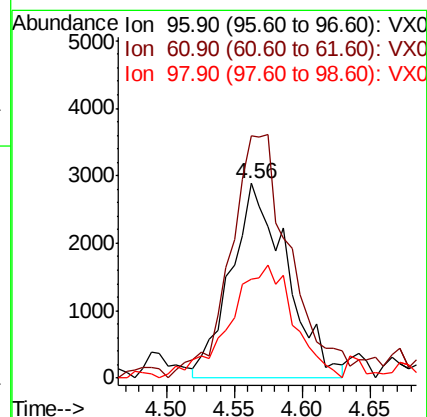
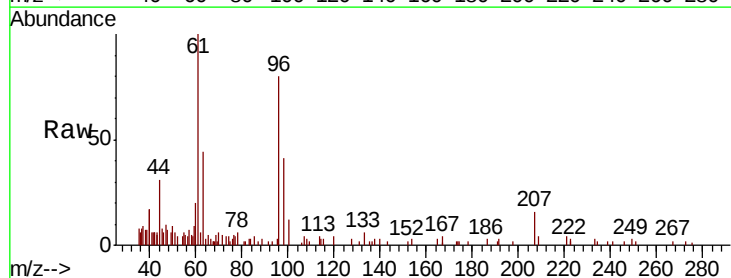
Tgt Ion: 96 Resp: 8312

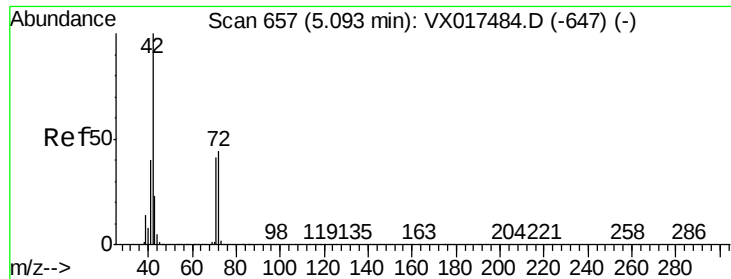
Ion Ratio Lower Upper

96 100

61 132.5 0.0 301.2

98 65.9 0.0 130.0

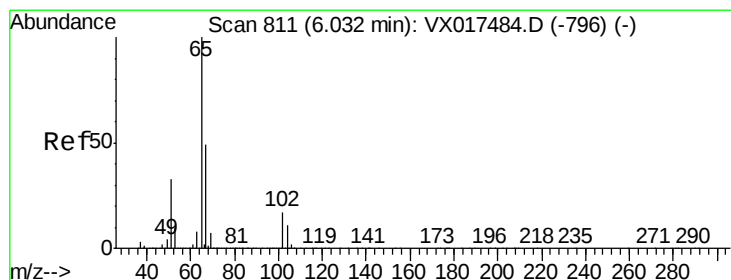
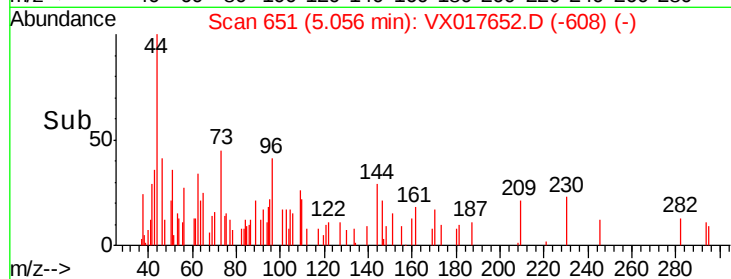
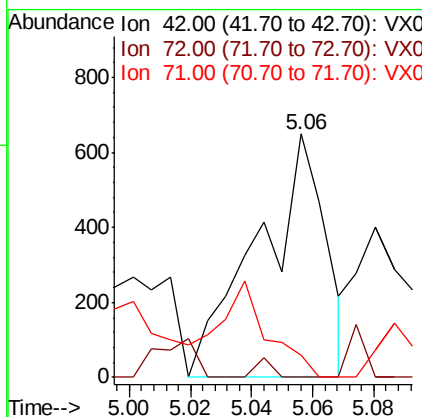
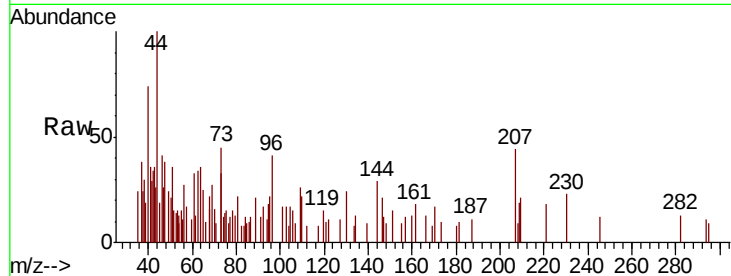




#29
Tetrahydrofuran
Concen: 0.408 ug/l
RT: 5.06 min Scan# 651
Delta R.T. -0.04 min
Lab File: VX017652.D
Acq: 28 Jul 2020 14:46

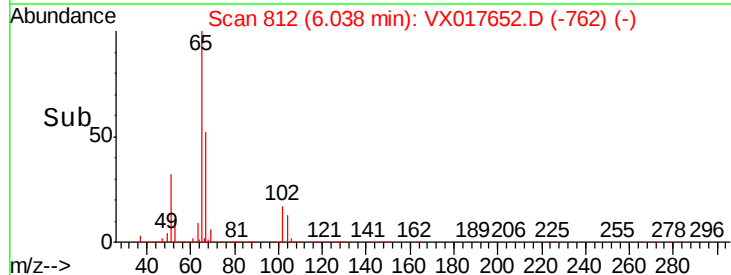
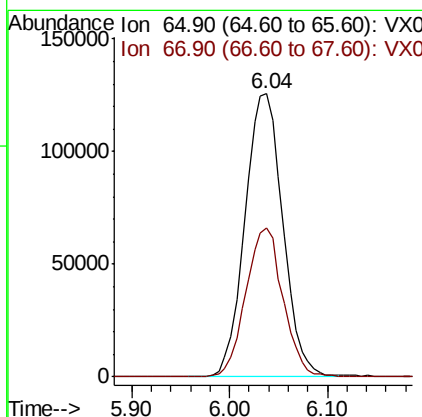
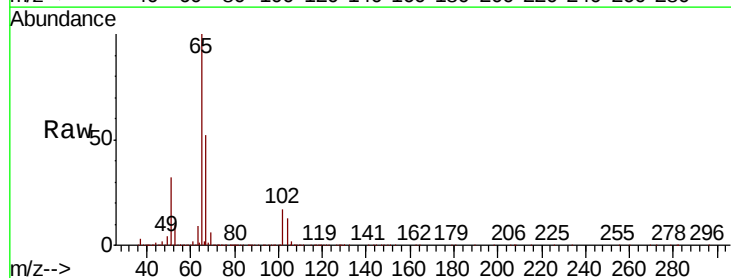
Instrument :
MSVOA_X
ClientSampleId :

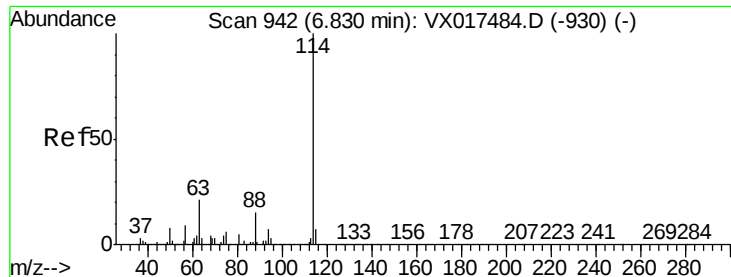
Tot Ion: 42 Resp: 996
Ion Ratio Lower Upper
42 100
72 5.2 35.5 53.3#
71 0.0 33.0 49.4#



#33
1,2-Dichloroethane-d4
Concen: 53.594 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017652.D
Acq: 28 Jul 2020 14:46

Tgt Ion: 65 Resp: 338173
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

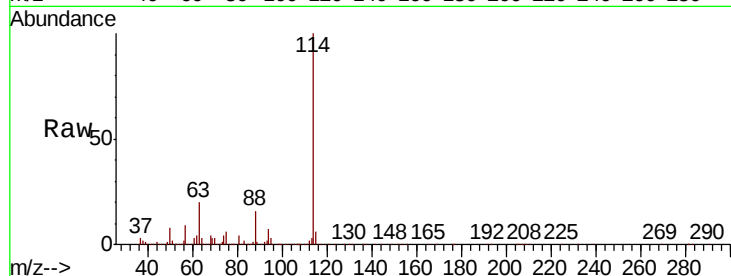
Tot Ion:114 Resp: 821948

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.6

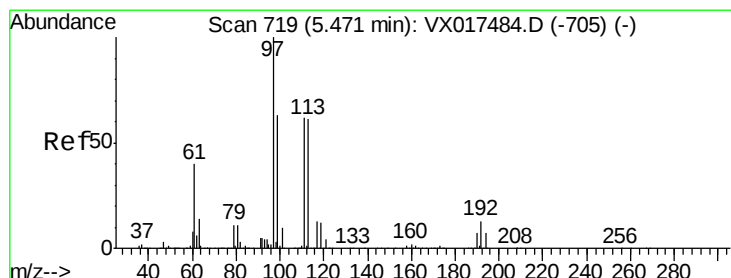
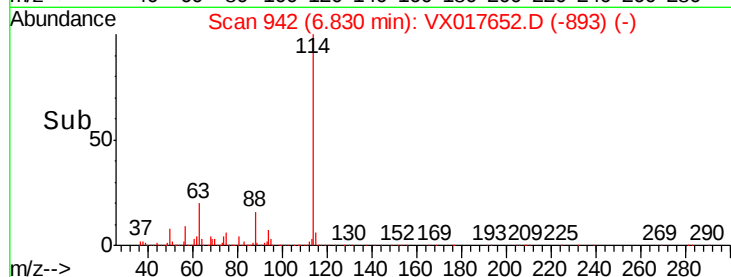
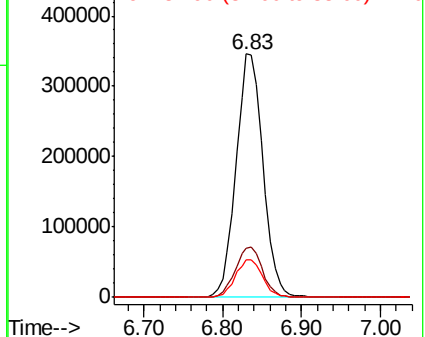
88 15.6 0.0 33.4



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: 50.505 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

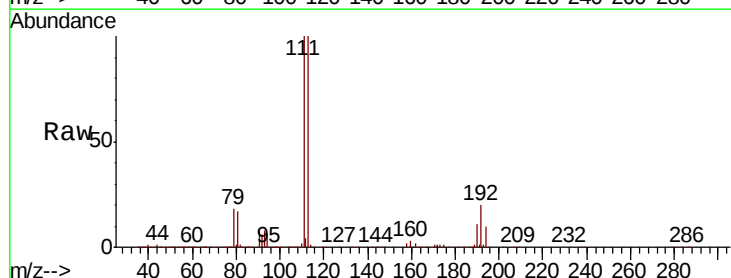
Tgt Ion:113 Resp: 277638

Ion Ratio Lower Upper

113 100

111 103.5 80.7 121.1

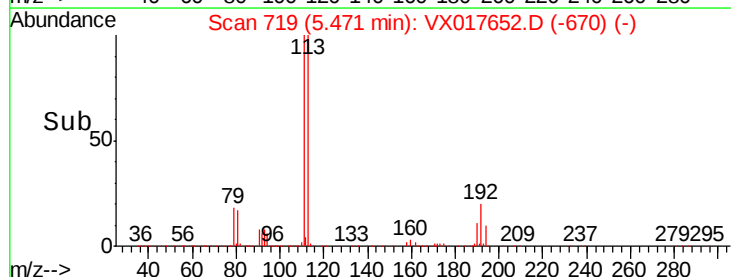
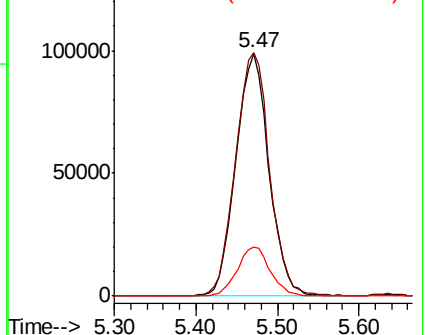
192 20.2 16.9 25.3

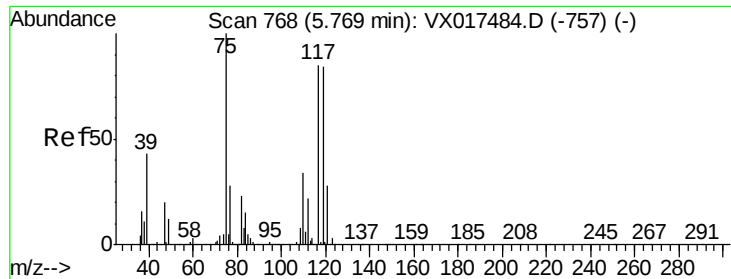


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.619 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :
MSVOA_X
ClientSampleId :

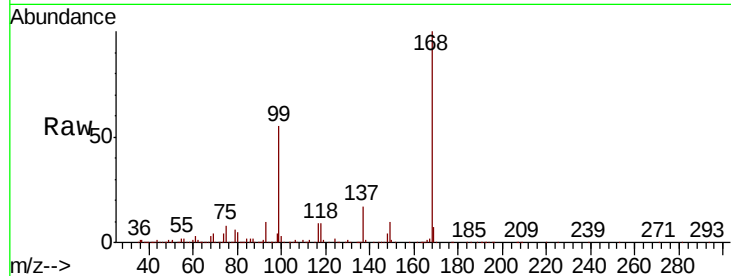
Tot Ion: 75 Resp: 36415

Ion Ratio Lower Upper

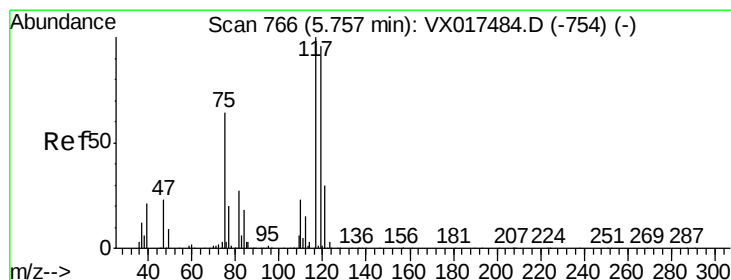
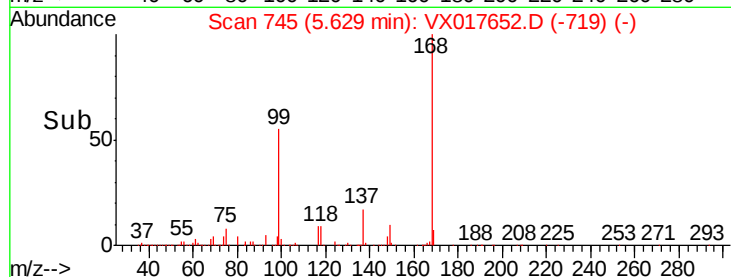
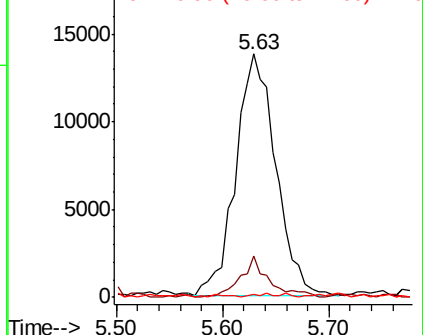
75 100

110 12.1 18.1 54.3#

77 0.6 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: 5.085 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

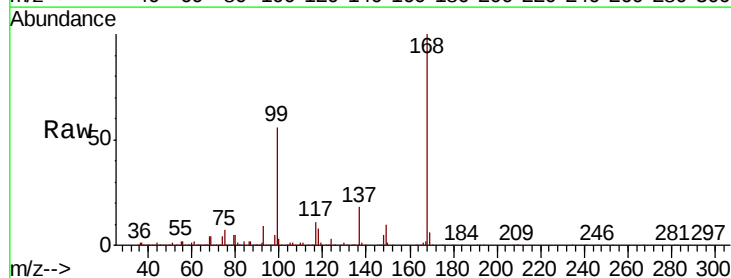
Tgt Ion: 117 Resp: 48675

Ion Ratio Lower Upper

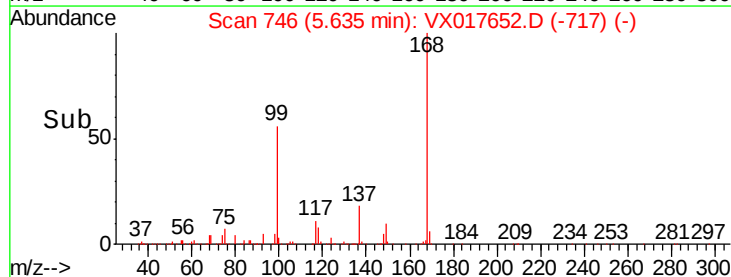
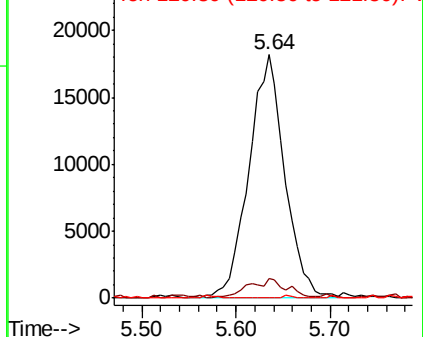
117 100

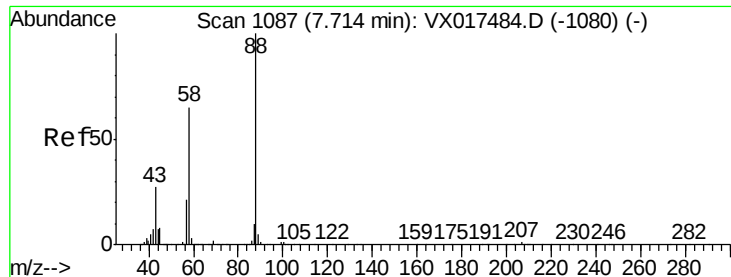
119 7.6 75.4 113.0#

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

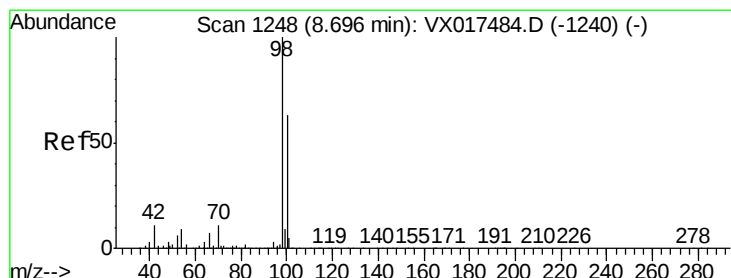
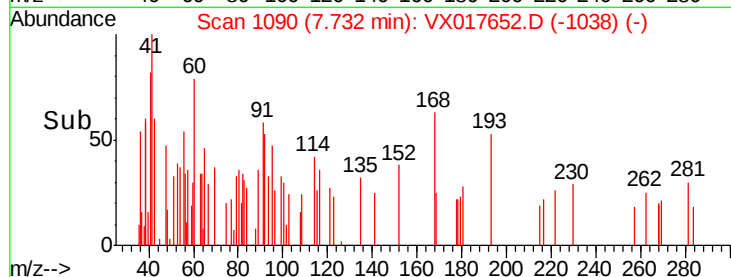
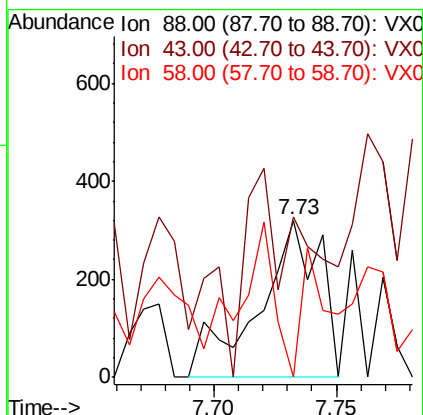
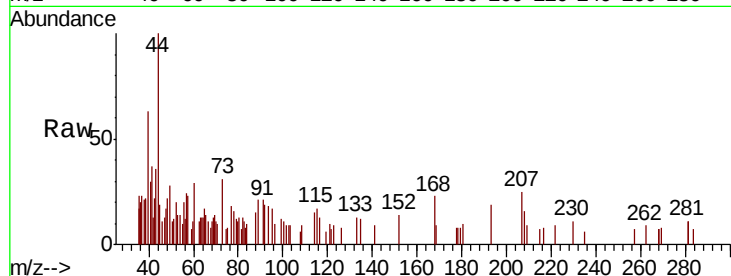




#49
1,4-Dioxane
Concen: 4.133 ug/l
RT: 7.73 min Scan# 1090
Delta R.T. 0.02 min
Lab File: VX017652.D
Acq: 28 Jul 2020 14:46

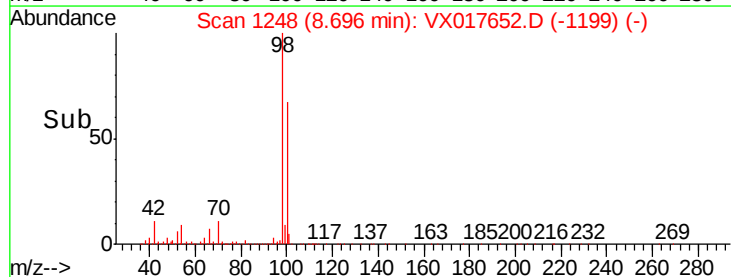
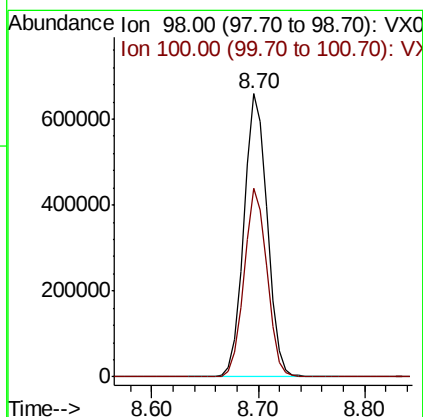
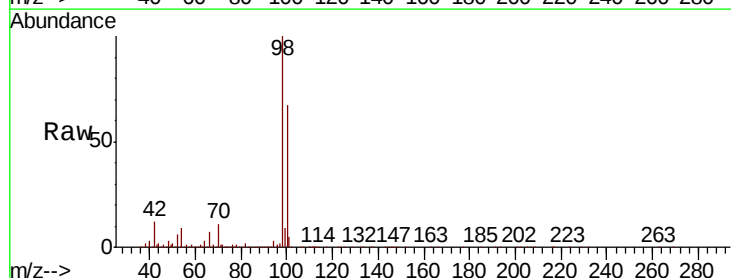
Instrument :
MSVOA_X
ClientSampled :

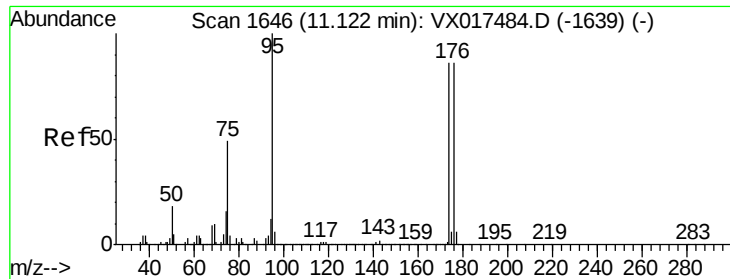
Tot Ion: 88 Resp: 559
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 34.7 58.3 87.5#



#50
Toluene-d8
Concen: 51.203 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017652.D
Acq: 28 Jul 2020 14:46

Tgt Ion: 98 Resp: 1015422
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5





#62

4-Bromofluorobenzene

Concen: 57.176 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

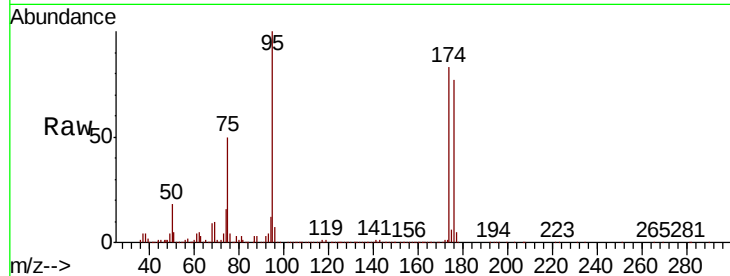
Tot Ion: 95 Resp: 453779

Ion Ratio Lower Upper

95 100

174 83.5 0.0 169.0

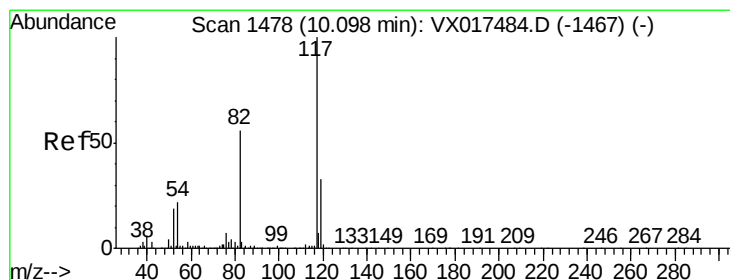
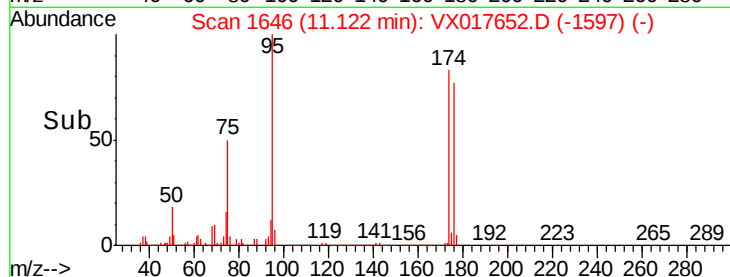
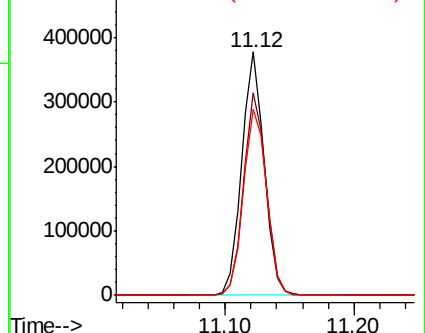
176 79.3 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

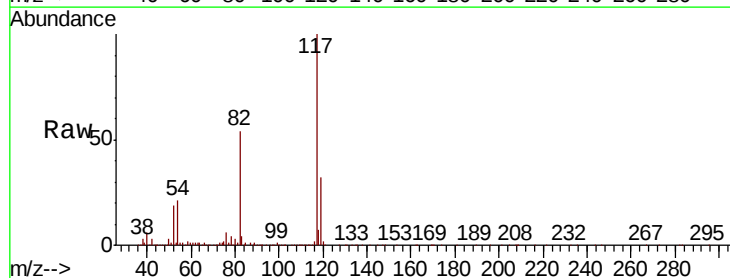
Tgt Ion: 117 Resp: 868779

Ion Ratio Lower Upper

117 100

82 53.9 44.0 66.0

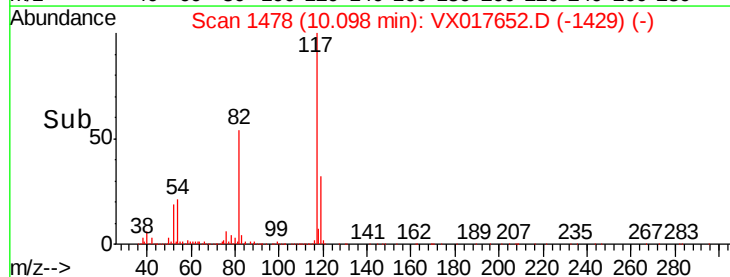
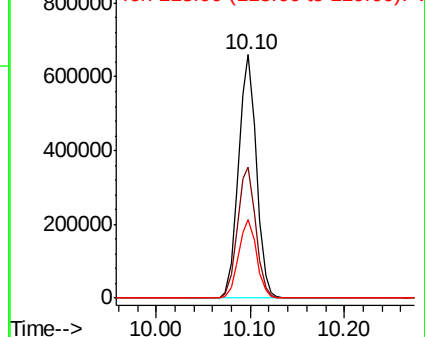
119 32.3 25.4 38.0

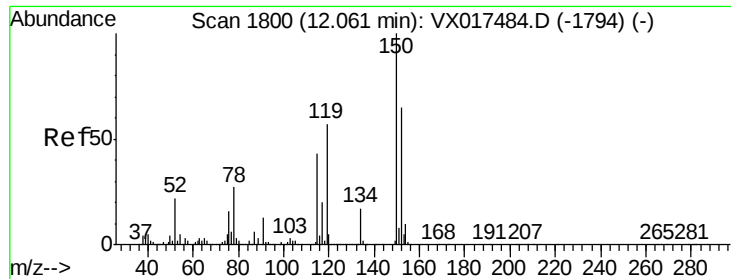


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

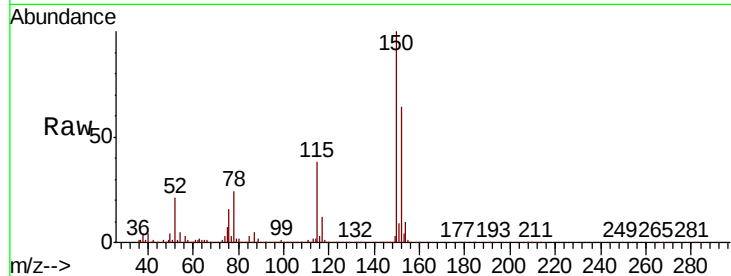
Tot Ion:152 Resp: 474531

Ion Ratio Lower Upper

152 100

115 58.0 65.5 196.6#

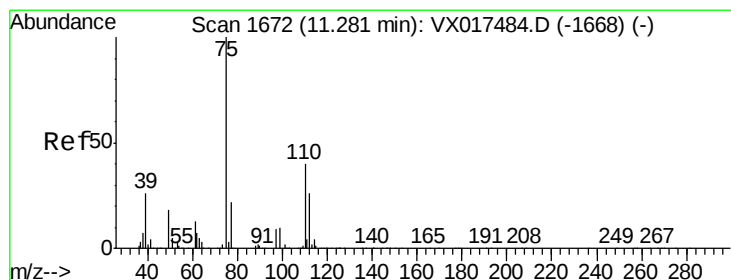
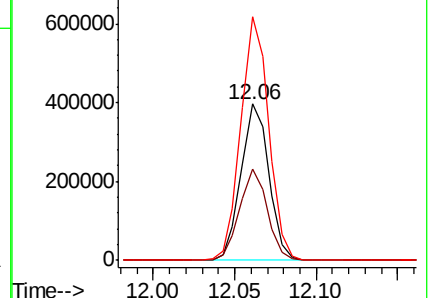
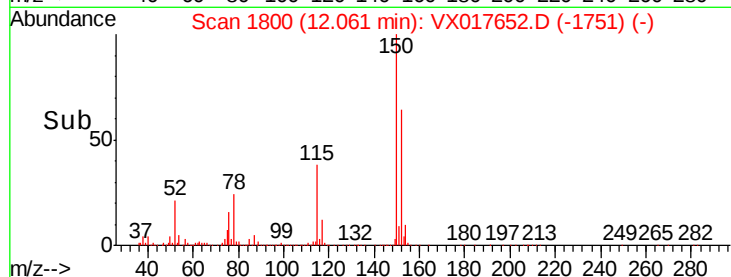
150 155.3 0.0 412.6



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: 23.290 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017652.D

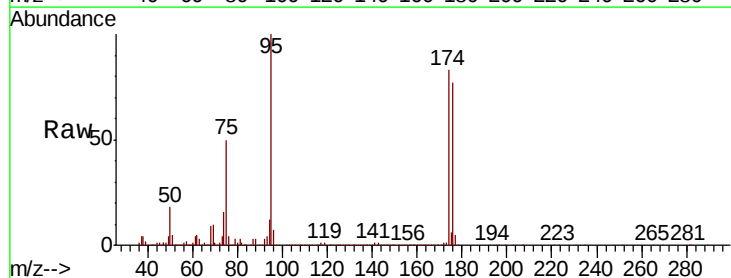
Acq: 28 Jul 2020 14:46

Tgt Ion: 75 Resp: 227343

Ion Ratio Lower Upper

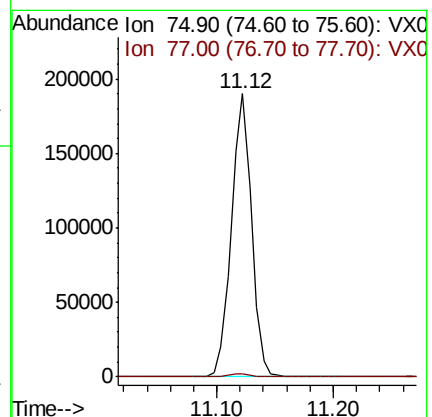
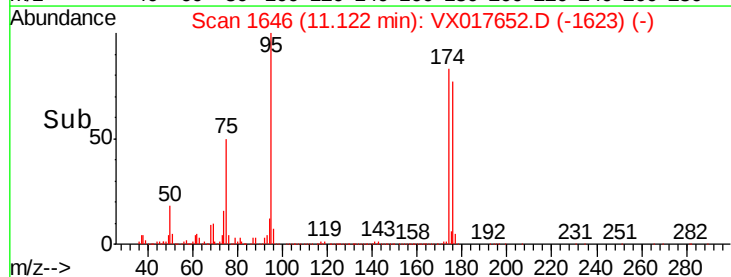
75 100

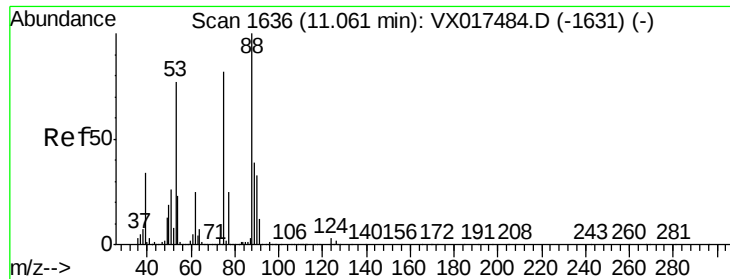
77 1.2 21.8 65.3#



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: 58.686 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Instrument :

MSVOA_X

ClientSampleId :

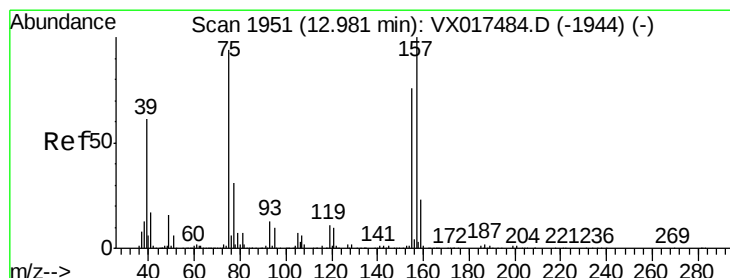
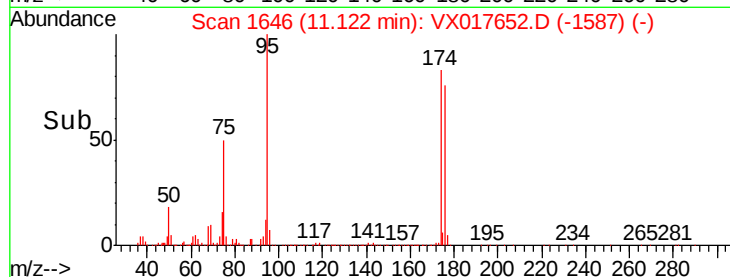
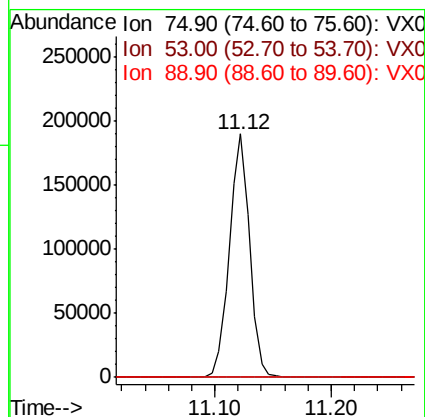
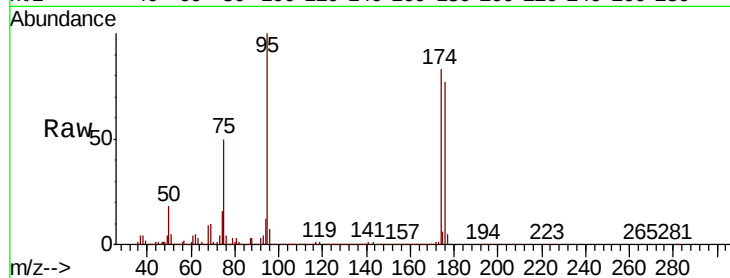
Tot Ion: 75 Resp: 227343

Ion Ratio Lower Upper

75 100

53 0.7 75.9 113.9#

89 0.0 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.604 ug/l

RT: 13.08 min Scan# 1967

Delta R.T. 0.10 min

Lab File: VX017652.D

Acq: 28 Jul 2020 14:46

Tgt Ion: 75 Resp: 82

Ion Ratio Lower Upper

75 100

155 76.8 42.3 126.8

157 97.6 54.3 162.9

