

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072820\
 Data File : VX017654.D
 Acq On : 28 Jul 2020 15:41
 Operator : JC/SP
 Sample : L3440-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 29 02:28:07 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	512576	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	856025	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	927899	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	490781	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	353275	53.65	ug/l	0.00
Spiked Amount			Recovery	=	107.30%	
35) Dibromofluoromethane	5.46	113	290722	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
50) Toluene-d8	8.70	98	1074829	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
62) 4-Bromofluorobenzene	11.12	95	470441	56.92	ug/l	0.00
Spiked Amount			Recovery	=	113.84%	

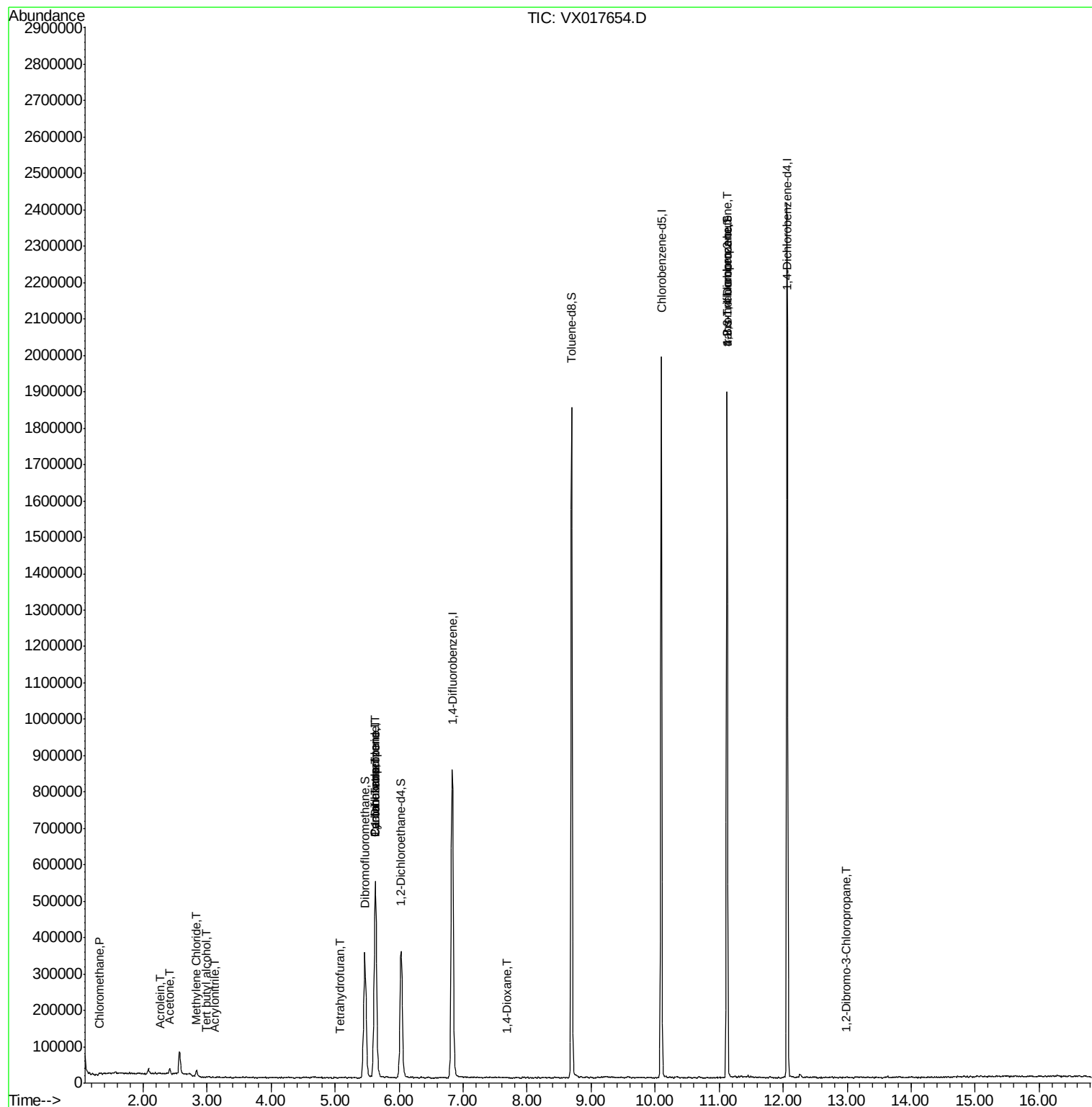
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	103	Below Cal	#	49
3) Chloromethane	1.32	50	4715	1.106	ug/l	97
5) Bromomethane	1.63	94	591	Below Cal	#	43
6) Chloroethane	1.70	64	338	Below Cal	#	44
8) Diethyl Ether	1.97	74	504	Below Cal		73
11) Tert butyl alcohol	3.00	59	628	0.453	ug/l #	1
13) Acrolein	2.26	56	487	4.601	ug/l #	1
15) Acrylonitrile	3.12	53	931	0.311	ug/l #	59
16) Acetone	2.42	43	15214	5.250	ug/l	97
20) Methylene Chloride	2.84	84	8458	0.273	ug/l #	87
29) Tetrahydrofuran	5.08	42	583	0.229	ug/l #	81
31) Cyclohexane	5.62	56	10350	1.275	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	38724	4.717	ug/l #	52
38) Carbon Tetrachloride	5.63	117	51654	5.181	ug/l #	15
49) 1,4-Dioxane	7.70	88	59	0.419	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	239213	23.695	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	239213	59.706	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	314	2.677	ug/l #	7

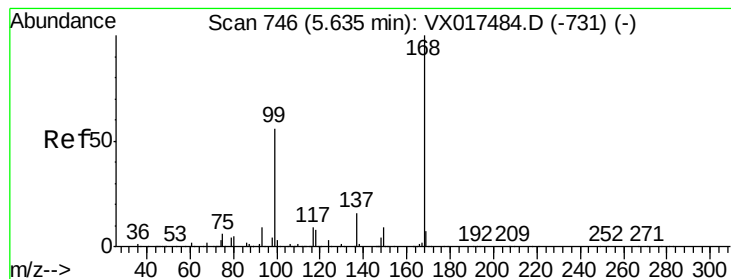
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX017654.D

Acq: 28 Jul 2020 15:41

Instrument :

MSVOA_X

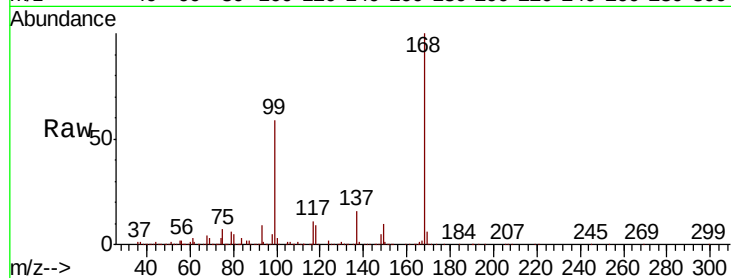
ClientSampleId :

Tot Ion:168 Resp: 512576

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

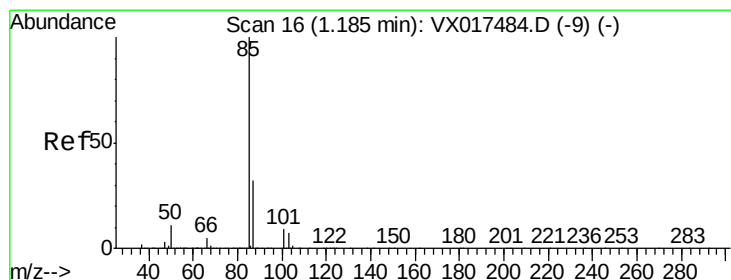
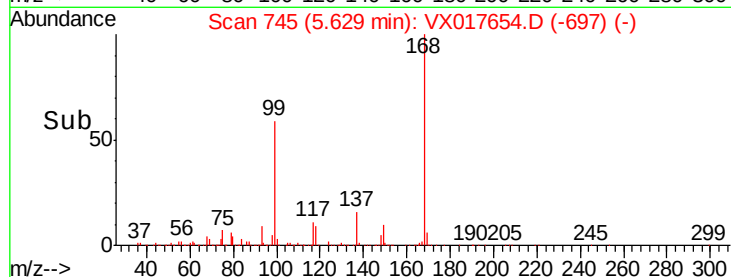
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.17 min Scan# 14

Delta R.T. -0.01 min

Lab File: VX017654.D

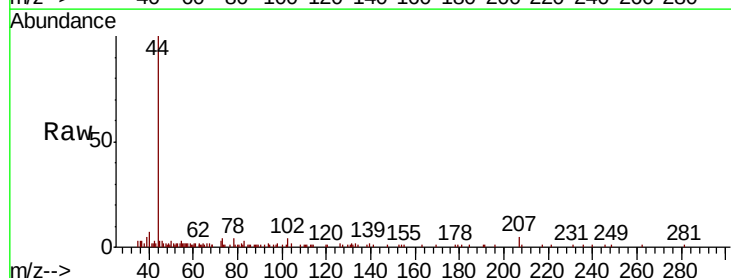
Acq: 28 Jul 2020 15:41

Tgt Ion: 85 Resp: 103

Ion Ratio Lower Upper

85 100

87 3.9 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

250

200

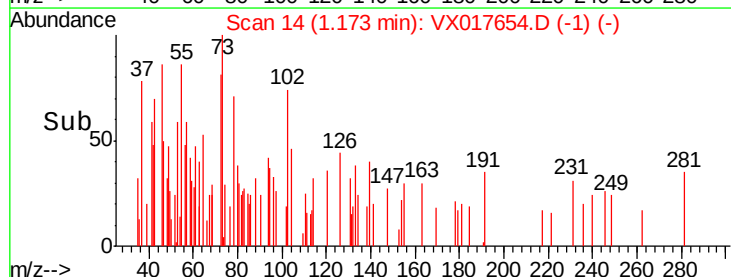
150

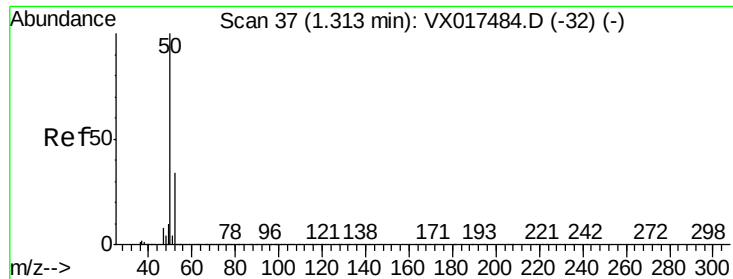
100

50

0

Time-->





#3

Chloromethane

Concen: 1.106 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017654.D

Acq: 28 Jul 2020 15:41

Instrument :

MSVOA_X

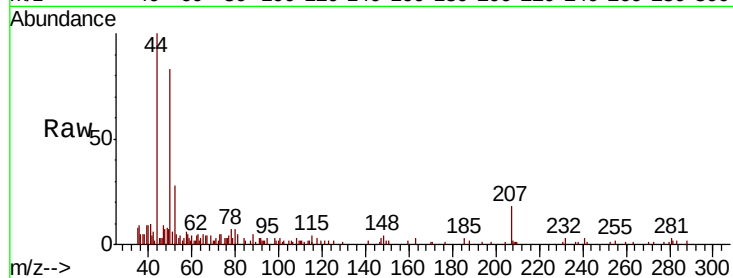
ClientSampleId :

Tot Ion: 50 Resp: 4715

Ion Ratio Lower Upper

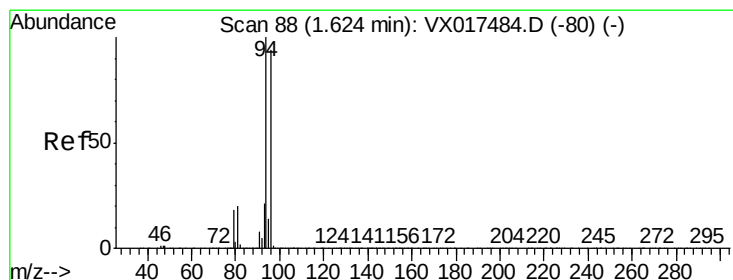
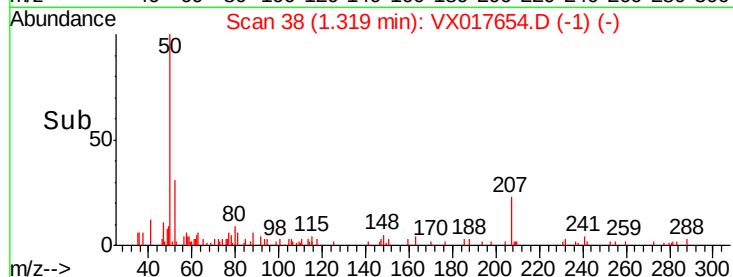
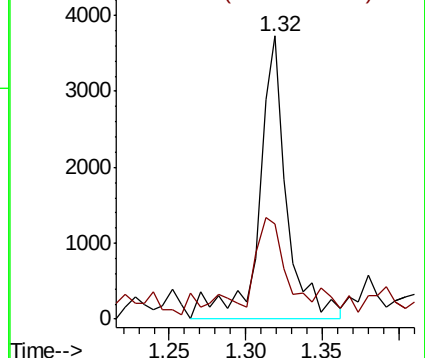
50 100

52 30.9 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: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX017654.D

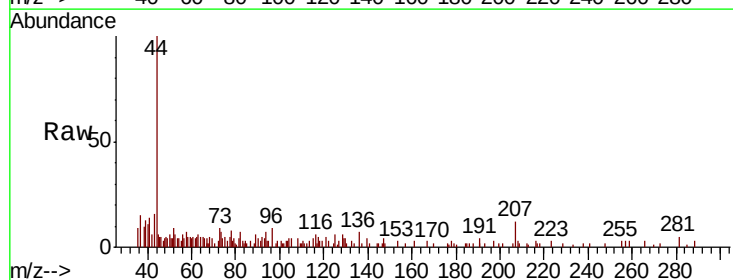
Acq: 28 Jul 2020 15:41

Tgt Ion: 94 Resp: 591

Ion Ratio Lower Upper

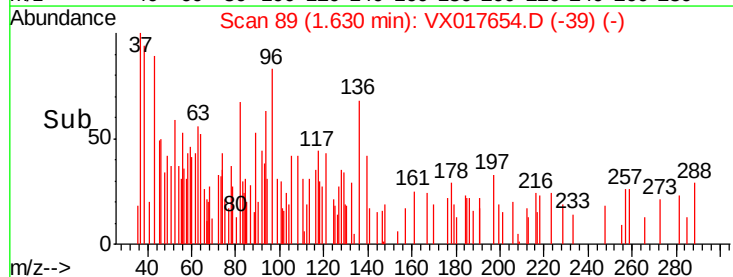
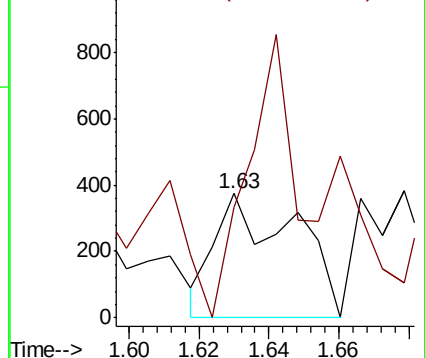
94 100

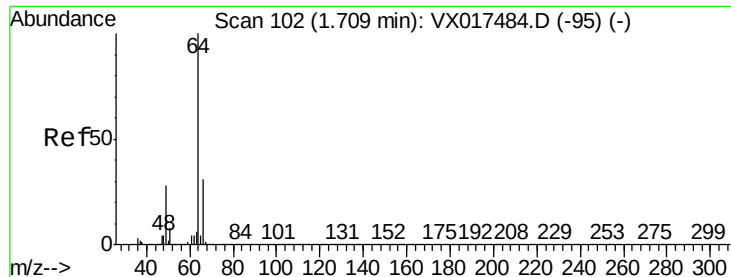
96 37.6 74.1 111.1#



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: VX017654.D

Acq: 28 Jul 2020 15:41

Instrument :

MSVOA_X

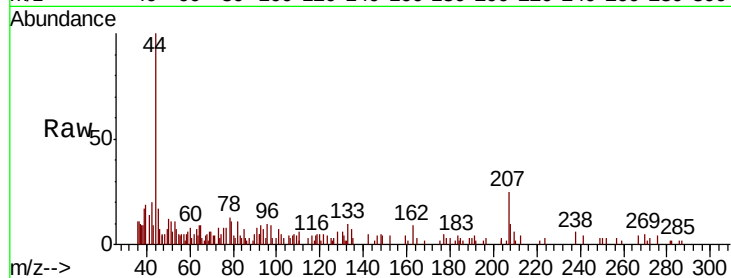
ClientSampled :

Tot Ion: 64 Resp: 338

Ion Ratio Lower Upper

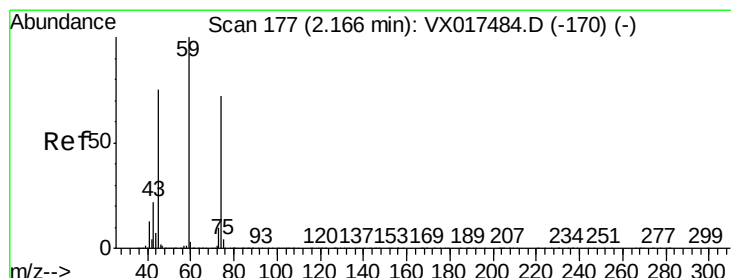
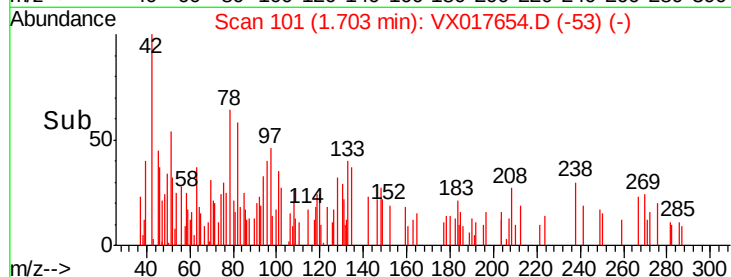
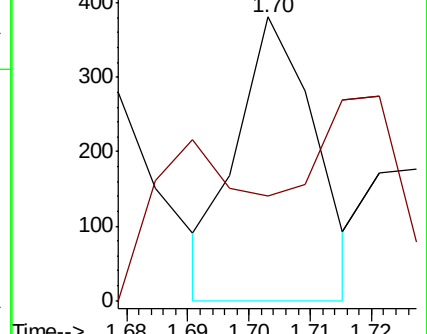
64 100

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: 1.97 min Scan# 145

Delta R.T. -0.19 min

Lab File: VX017654.D

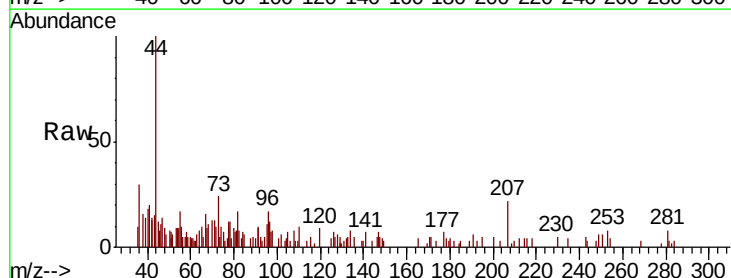
Acq: 28 Jul 2020 15:41

Tgt Ion: 74 Resp: 504

Ion Ratio Lower Upper

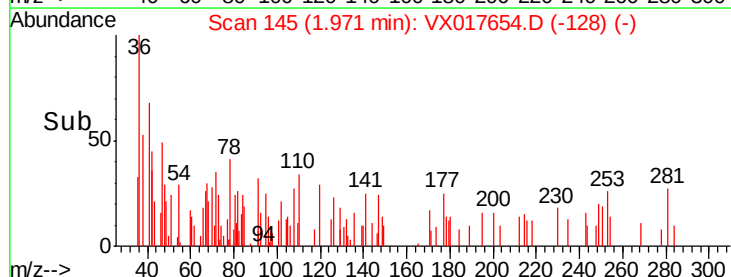
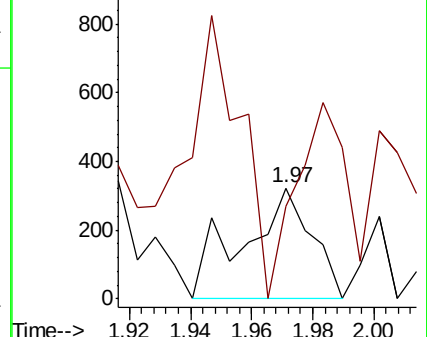
74 100

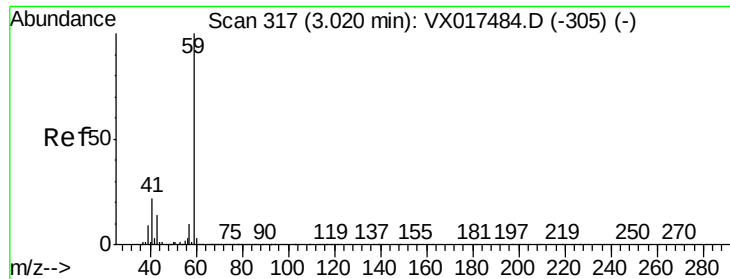
45 129.2 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



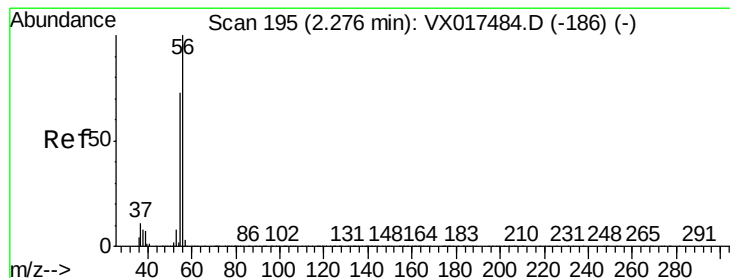
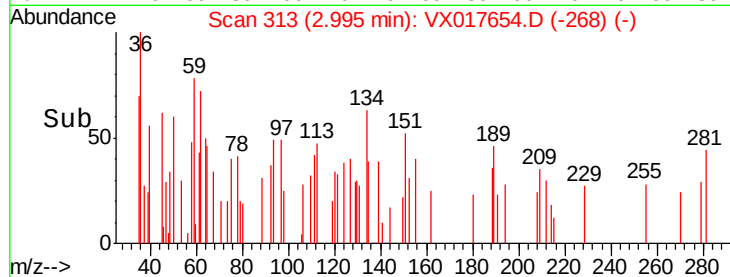
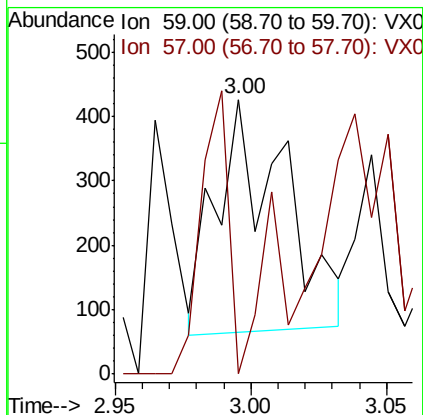
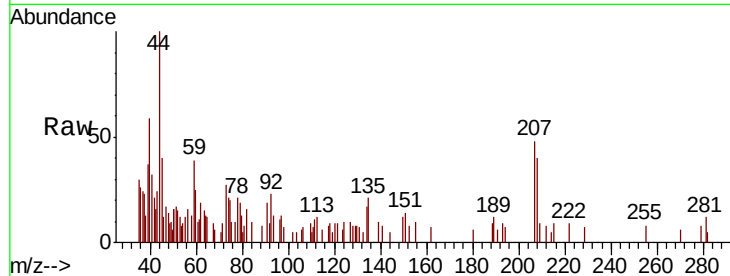


#11

Tert butyl alcohol
Concen: 0.453 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

Instrument :
MSVOA_X
ClientSampled :

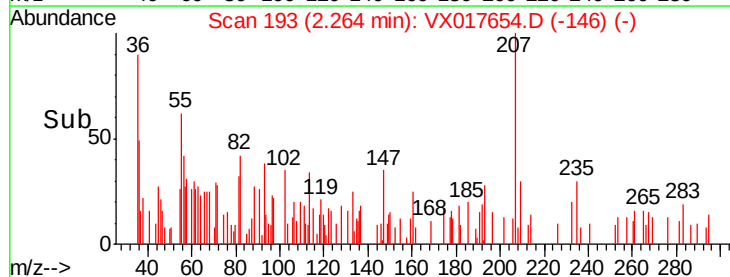
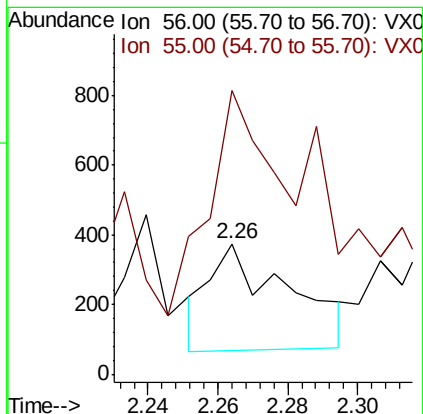
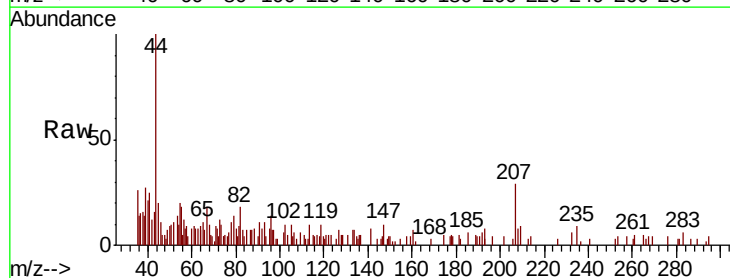
Tot Ion: 59 Resp: 628
Ion Ratio Lower Upper
59 100
57 53.8 8.6 12.8#

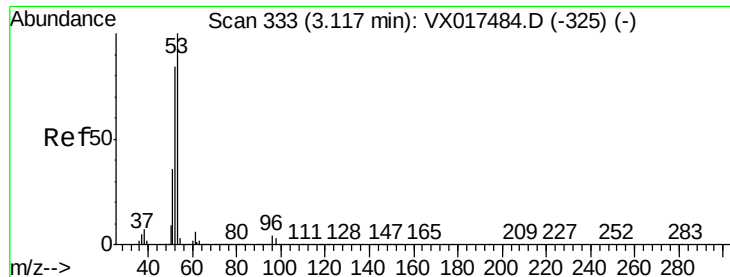


#13

Acrolein
Concen: 4.601 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

Tgt Ion: 56 Resp: 487
Ion Ratio Lower Upper
56 100
55 265.5 57.4 86.2#





#15

Acrylonitrile

Concen: 0.311 ug/l

RT: 3.12 min Scan# 333

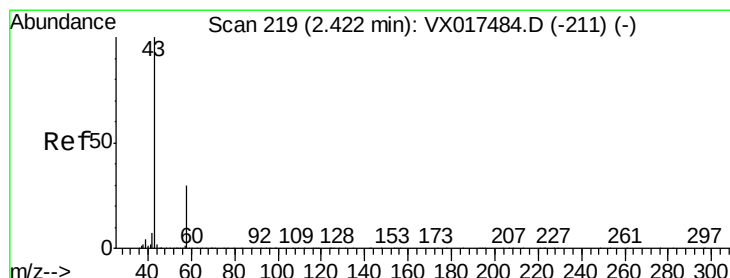
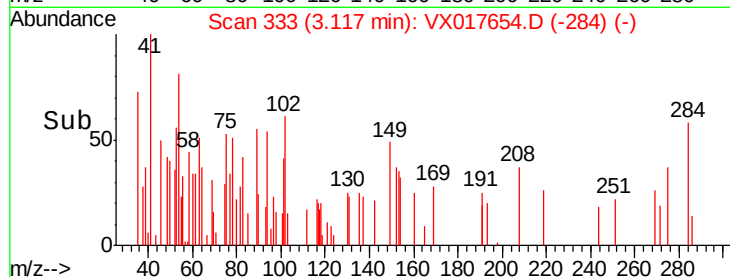
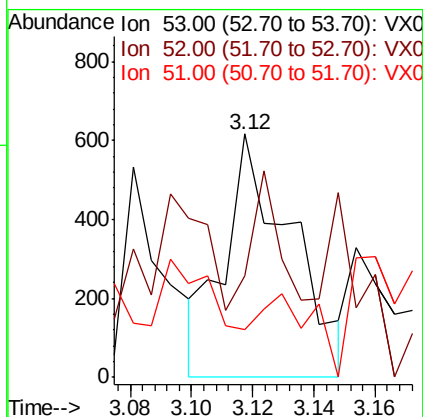
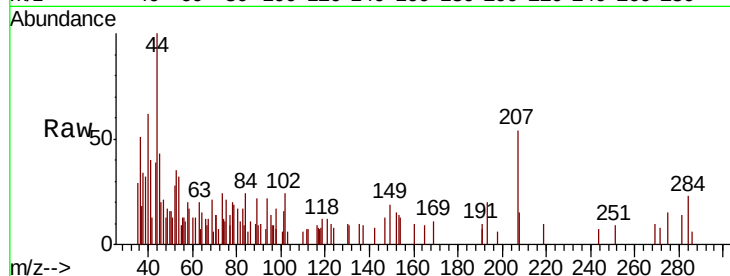
Delta R.T. -0.00 min

Lab File: VX017654.D

Acq: 28 Jul 2020 15:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	931
Ion	Ratio	Lower	Upper
53	100		
52	36.0	66.6	99.8#
51	27.3	29.4	44.2#



#16

Acetone

Concen: 5.250 ug/l

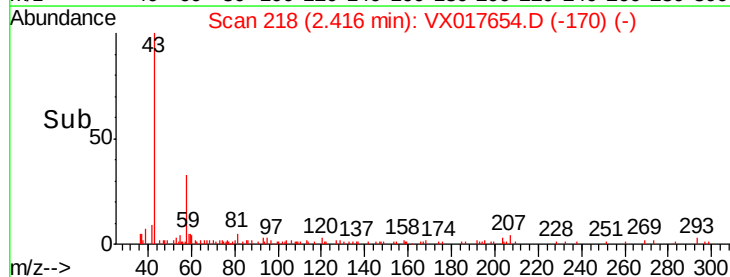
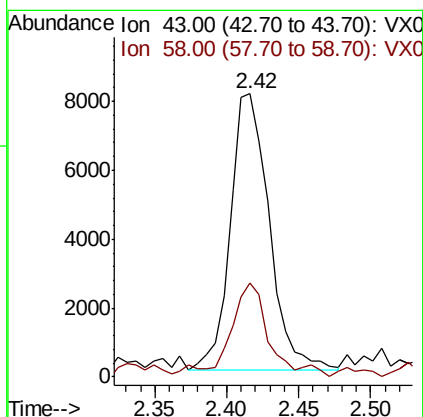
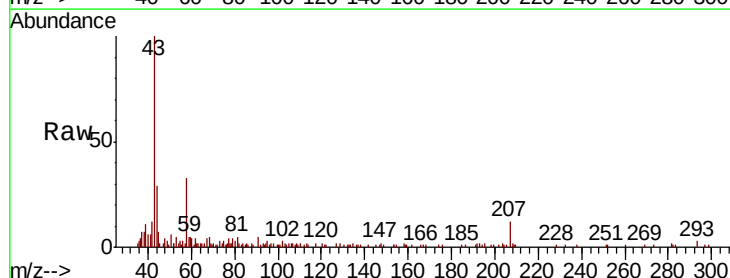
RT: 2.42 min Scan# 218

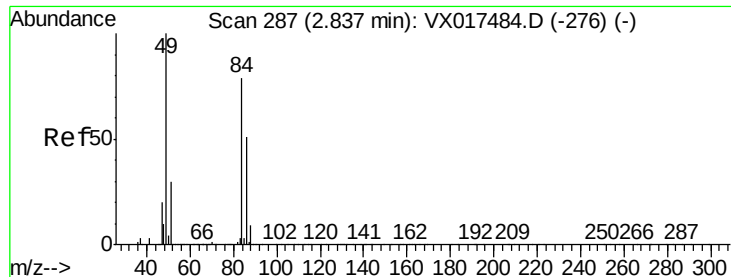
Delta R.T. -0.01 min

Lab File: VX017654.D

Acq: 28 Jul 2020 15:41

Tgt Ion:	43	Resp:	15214
Ion	Ratio	Lower	Upper
43	100		
58	31.9	24.2	36.4

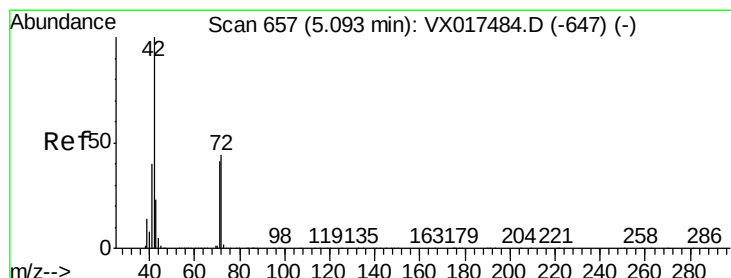
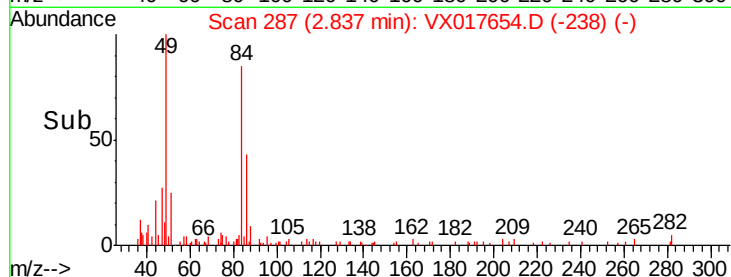
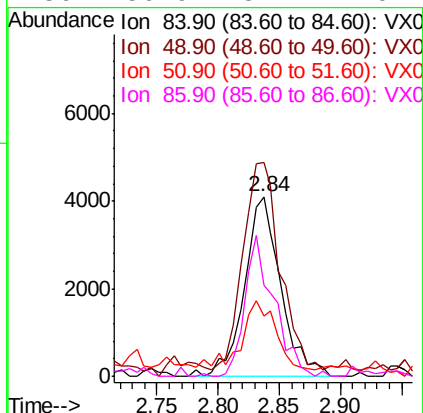
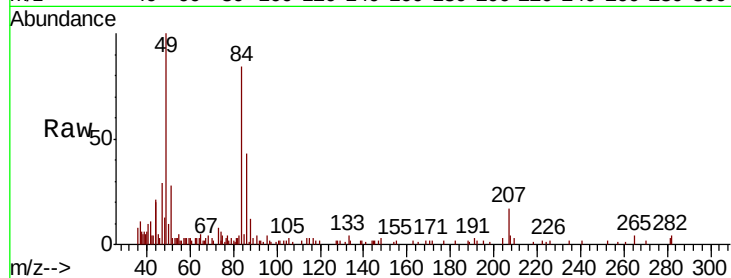




#20
Methylene Chloride
Concen: 0.273 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

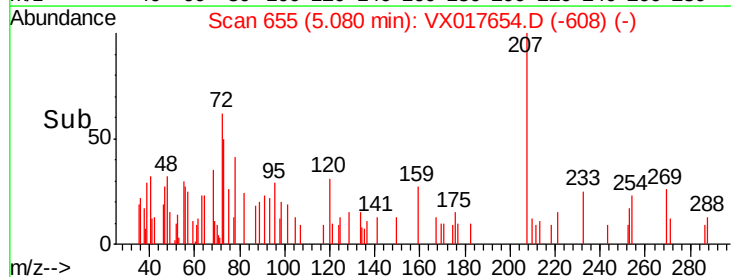
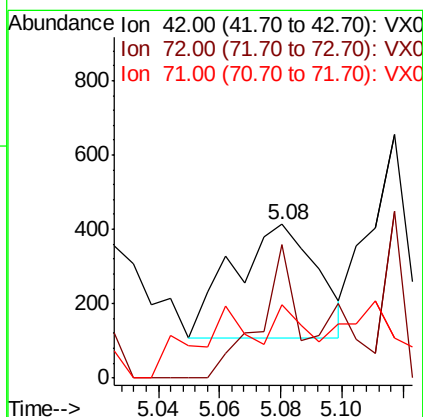
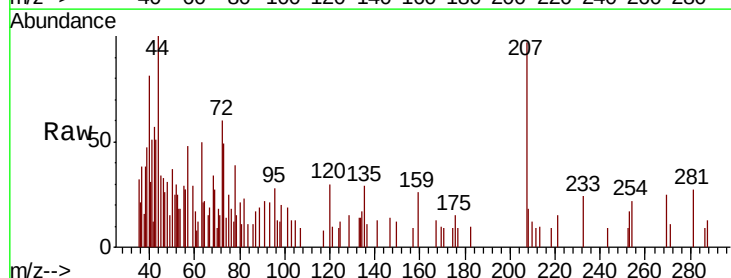
Instrument :
MSVOA_X
ClientSampleId :

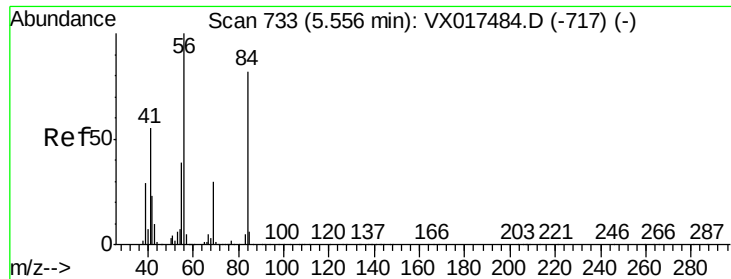
Tot Ion:	84	Resp:	8458
Ion	Ratio	Lower	Upper
84	100		
49	114.2	100.3	150.5
51	28.6	30.5	45.7#
86	50.9	51.1	76.7#



#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 5.08 min Scan# 655
Delta R.T. -0.01 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

Tgt Ion:	42	Resp:	583
Ion	Ratio	Lower	Upper
42	100		
72	55.6	35.5	53.3#
71	27.4	33.0	49.4#

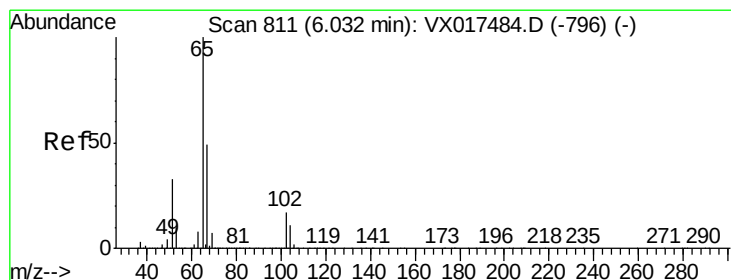
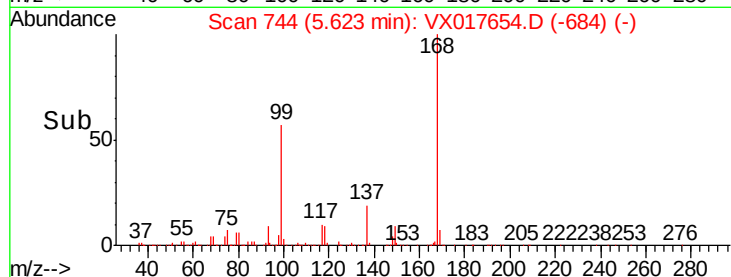
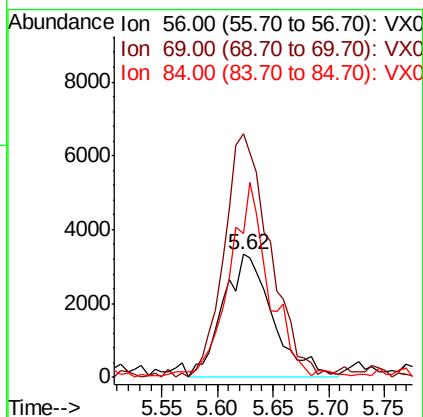
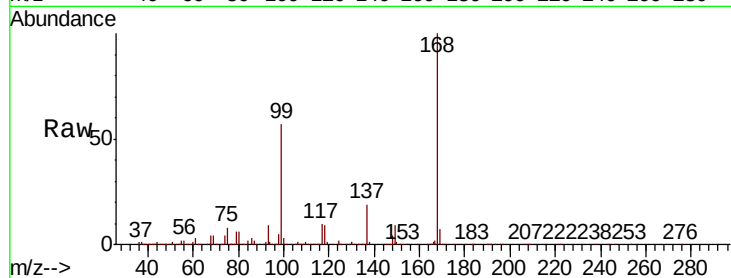




#31
Cyclohexane
Concen: 1.275 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

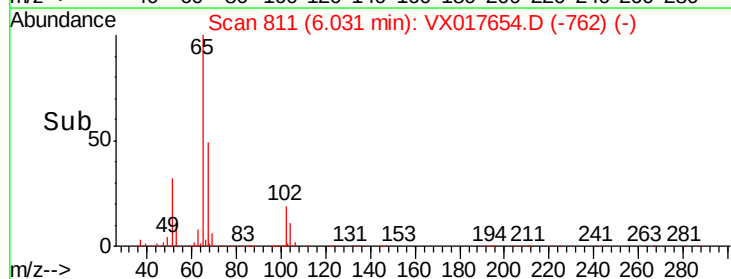
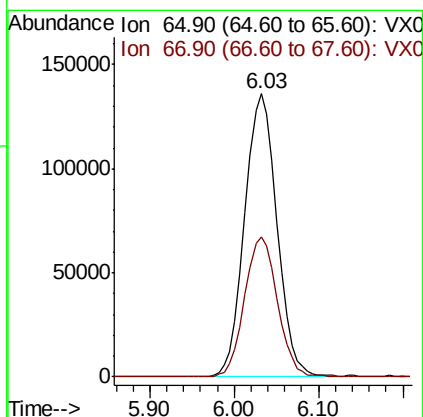
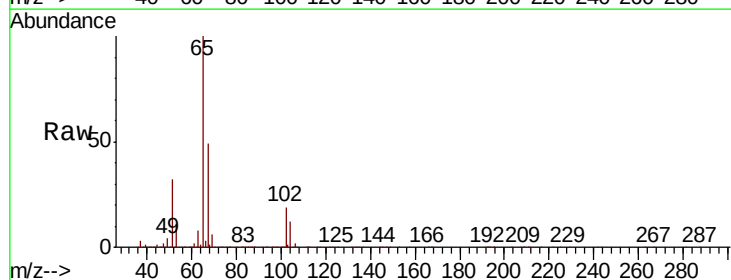
Instrument :
MSVOA_X
ClientSampled :

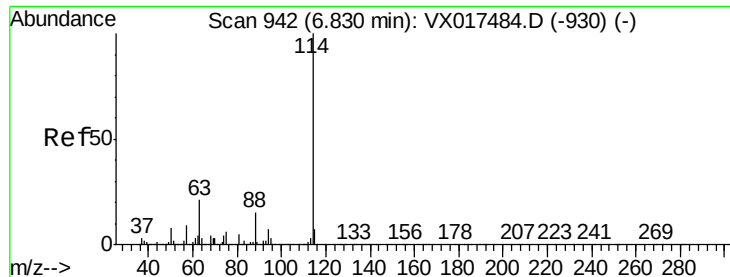
Tot Ion	56	Resp	10350
Ion Ratio	Lower	Upper	
56	100		
69	198.5	24.2	36.4#
84	113.9	69.0	103.6#



#33
1,2-Dichloroethane-d4
Concen: 53.654 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

Tgt Ion	65	Resp	353275
Ion Ratio	Lower	Upper	
65	100		
67	50.3	0.0	102.8

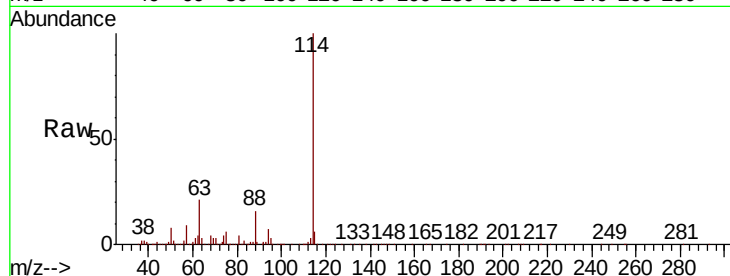




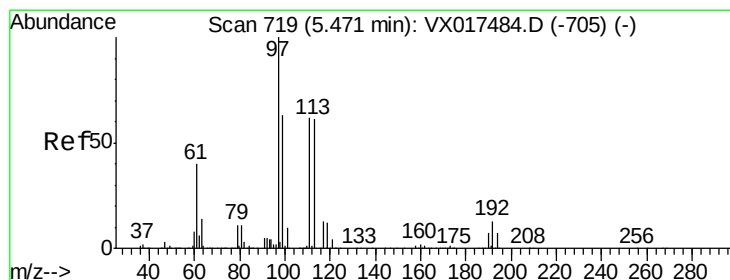
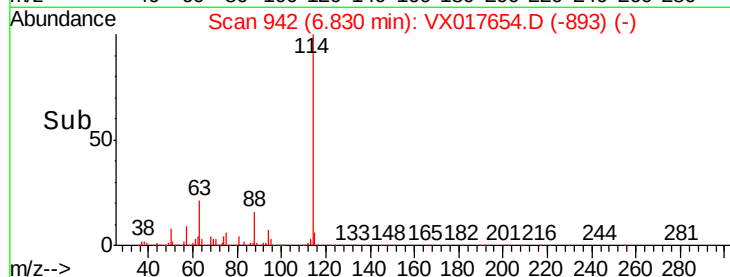
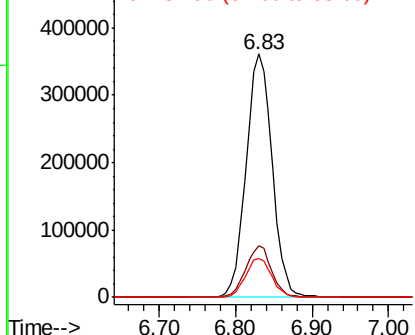
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.83 min Scan# 942
Delta R.T. -0.00 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.6
88	15.9	0.0	33.4

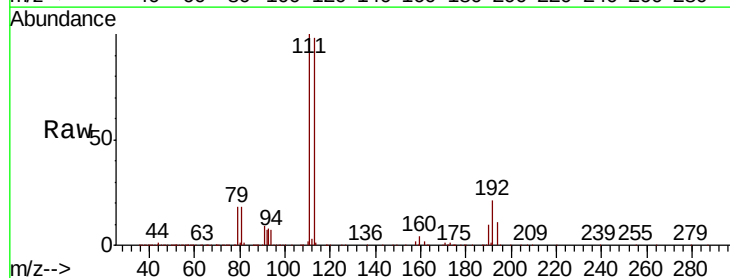


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

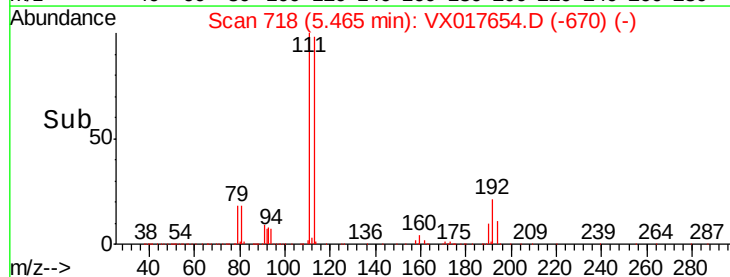
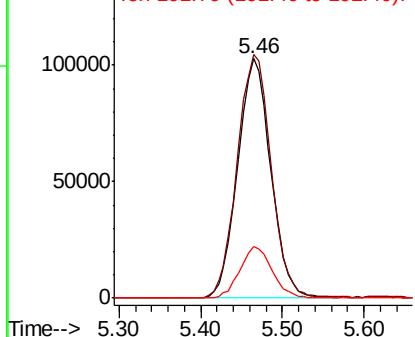


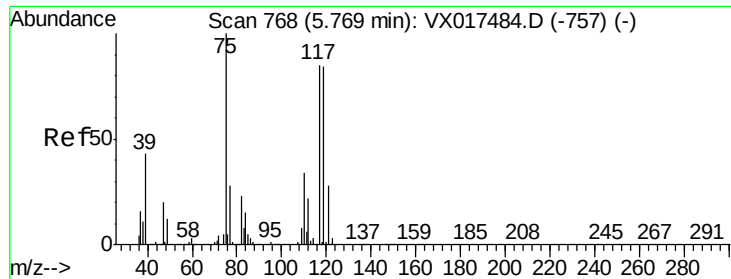
#35
Dibromofluoromethane
Concen: 50.780 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.01 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.7	121.1
192	21.0	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

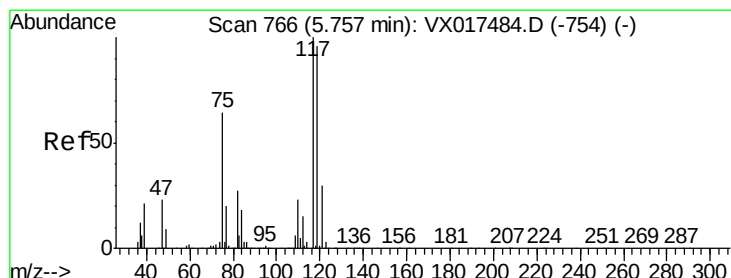
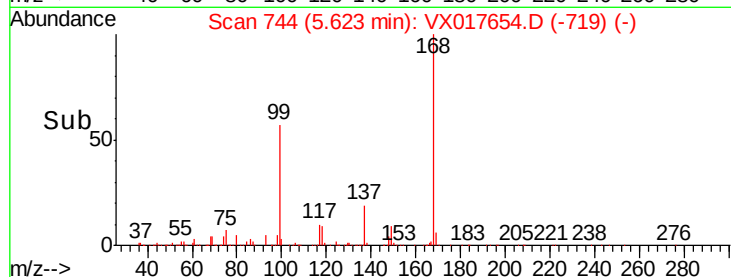
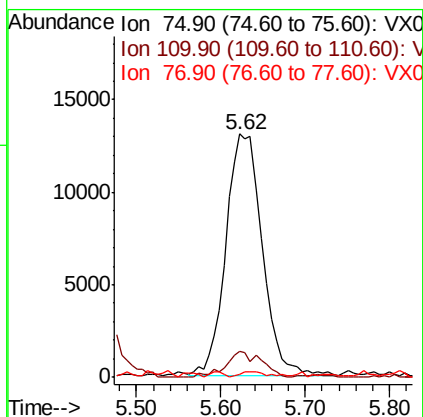
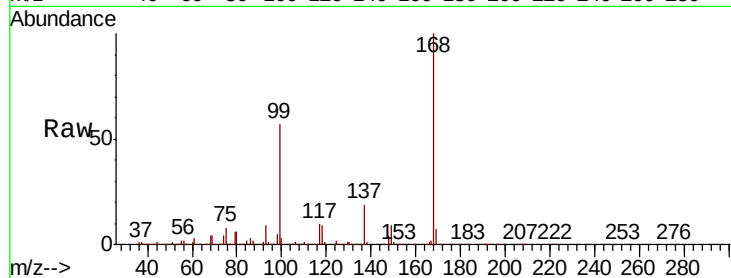




#36
 1,1-Dichloropropene
 Concen: 4.717 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX017654.D
 Acq: 28 Jul 2020 15:41

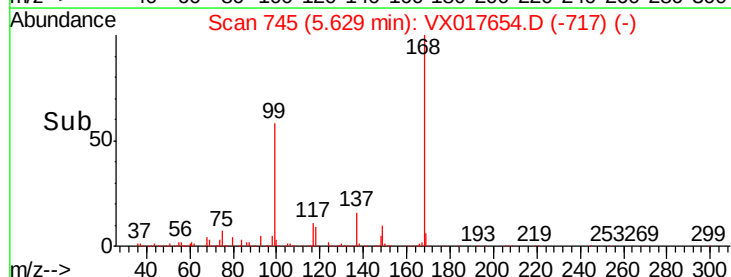
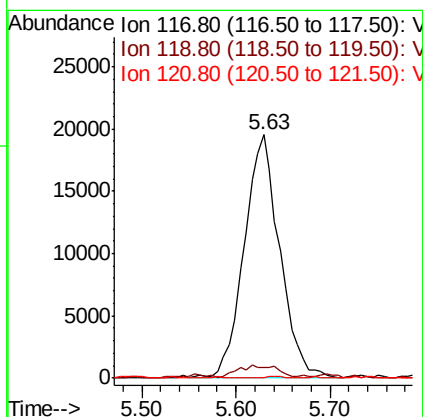
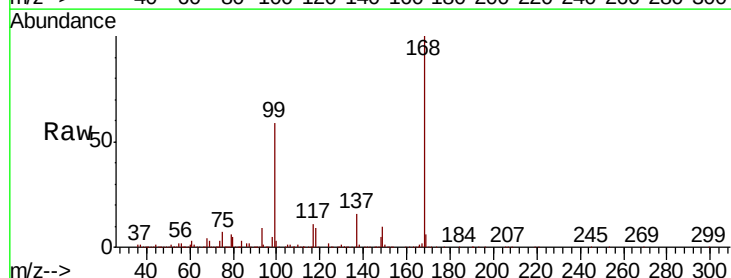
Instrument :
 MSVOA_X
 ClientSampleId :

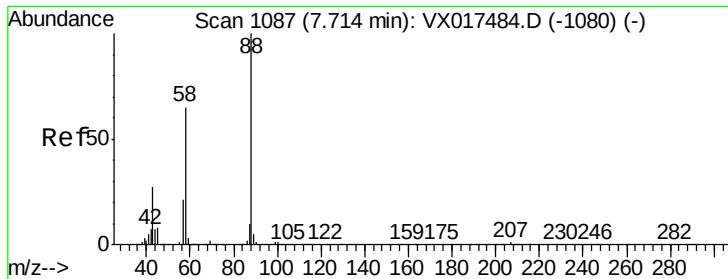
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	18.1	54.3#
77	1.8	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.181 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX017654.D
 Acq: 28 Jul 2020 15:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.2	75.4	113.0#
121	0.0	24.3	36.5#





#49

1,4-Dioxane

Concen: 0.419 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX017654.D

Acq: 28 Jul 2020 15:41

Instrument :
MSVOA_X
ClientSampleId :

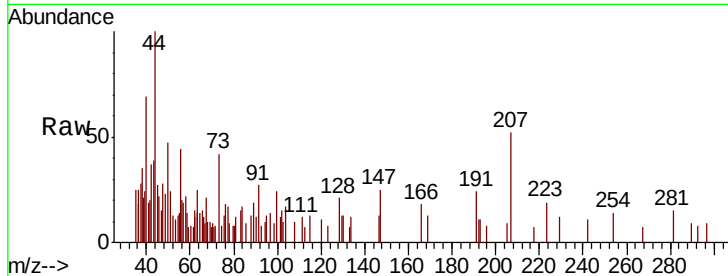
Tot Ion: 88 Resp: 59

Ion Ratio Lower Upper

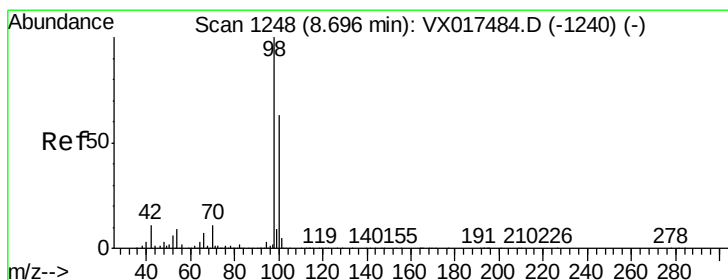
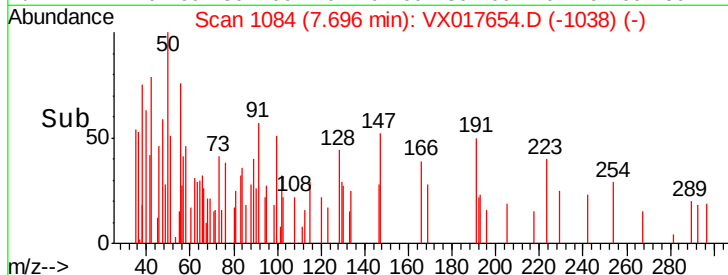
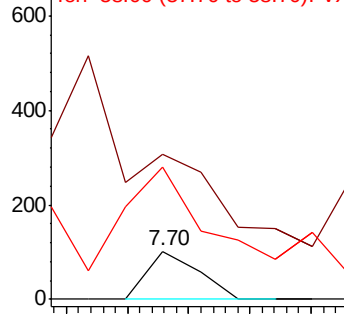
88 100

43 1457.6 27.8 41.6#

58 794.9 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: 52.041 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017654.D

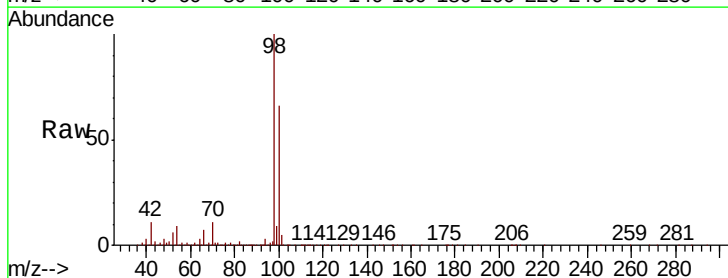
Acq: 28 Jul 2020 15:41

Tgt Ion: 98 Resp: 1074829

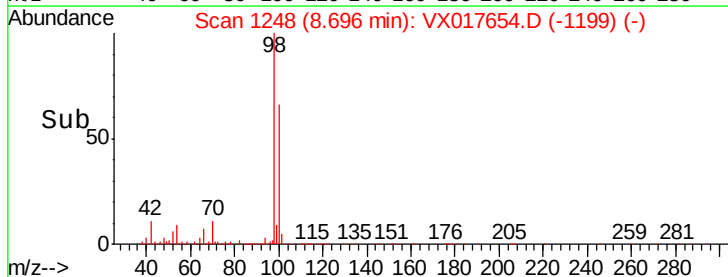
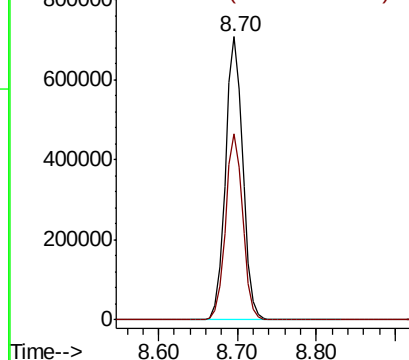
Ion Ratio Lower Upper

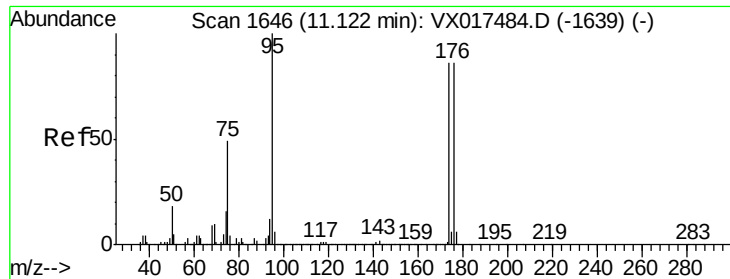
98 100

100 64.9 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

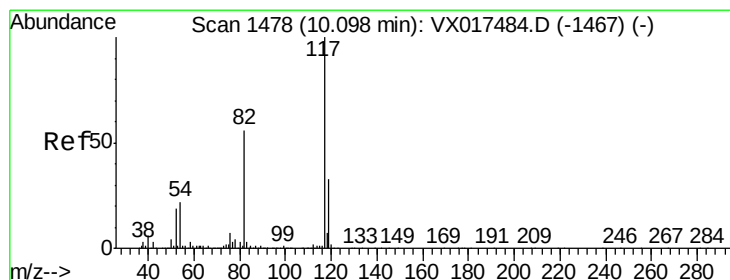
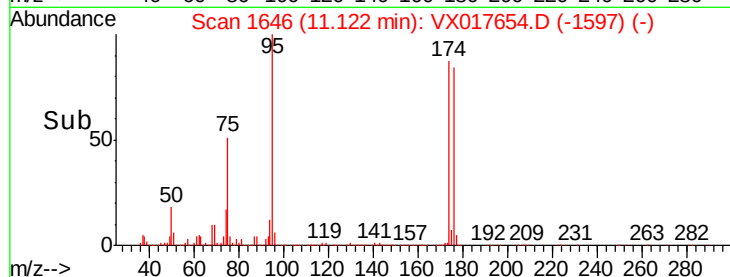
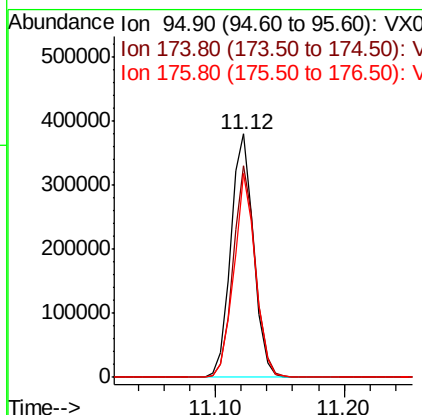
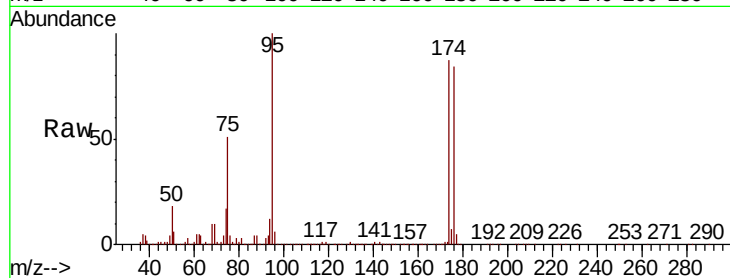




#62
4-Bromofluorobenzene
Concen: 56.916 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

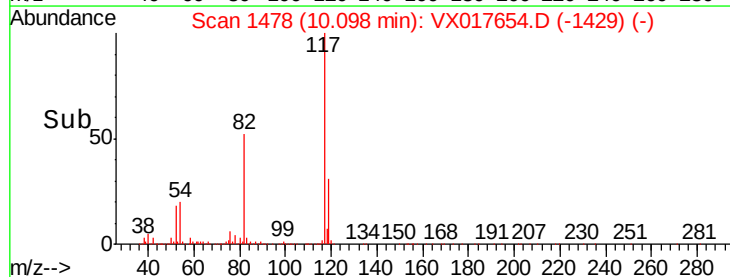
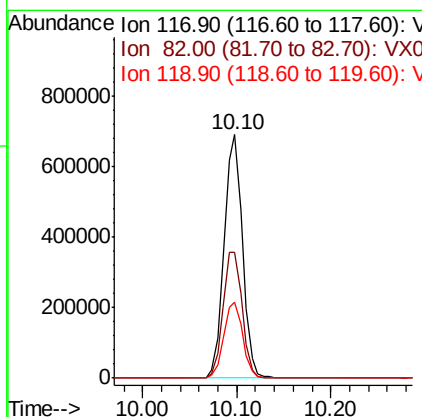
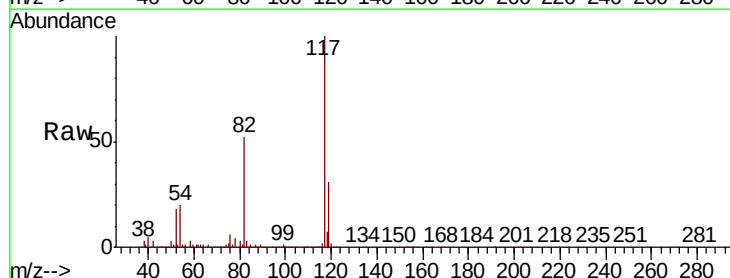
Instrument :
MSVOA_X
ClientSampleId :

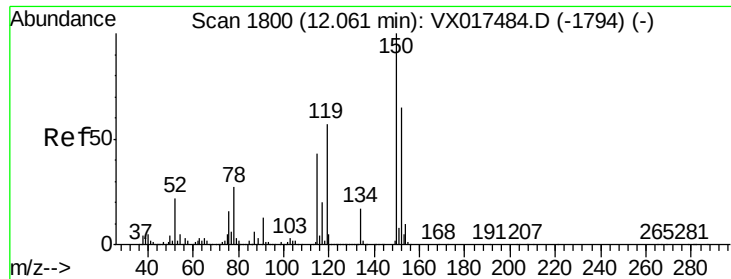
Tot Ion: 95 Resp: 470441
Ion Ratio Lower Upper
95 100
174 84.6 0.0 169.0
176 79.2 0.0 161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017654.D
Acq: 28 Jul 2020 15:41

Tgt Ion: 117 Resp: 927899
Ion Ratio Lower Upper
117 100
82 51.8 44.0 66.0
119 31.3 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017654.D

Acq: 28 Jul 2020 15:41

Instrument :

MSVOA_X

ClientSampleId :

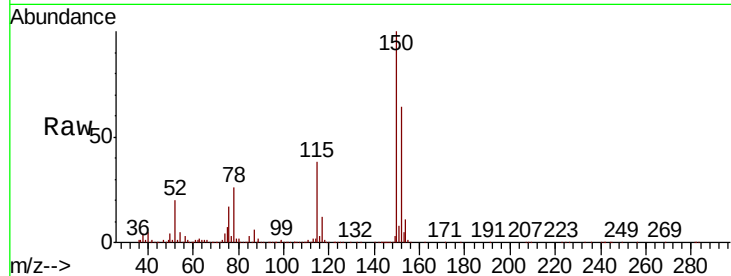
Tot Ion:152 Resp: 490781

Ion Ratio Lower Upper

152 100

115 58.3 65.5 196.6#

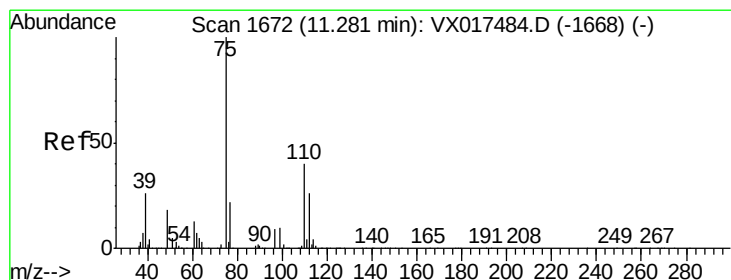
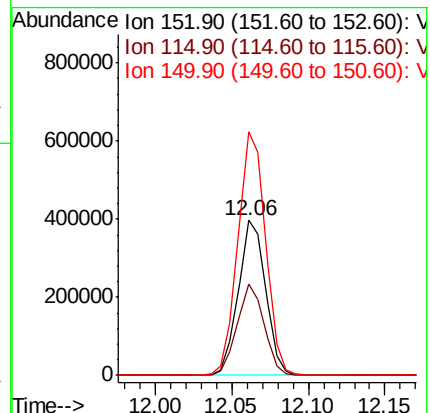
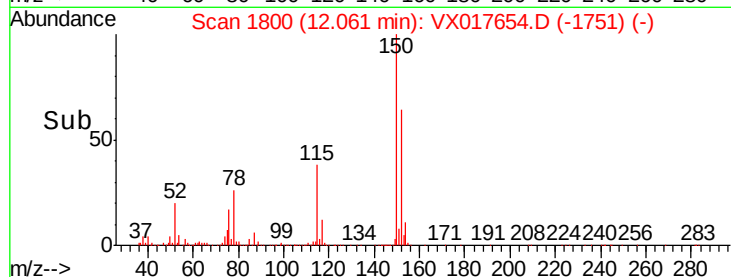
150 158.8 0.0 412.6



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: 23.695 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017654.D

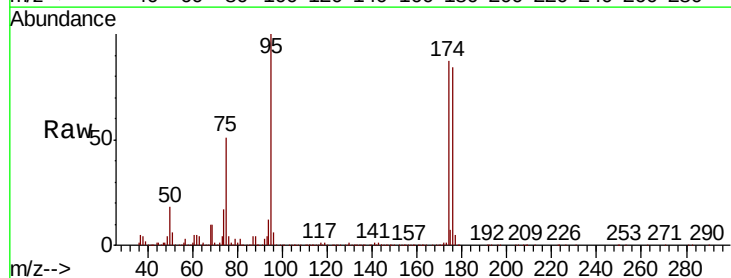
Acq: 28 Jul 2020 15:41

Tgt Ion: 75 Resp: 239213

Ion Ratio Lower Upper

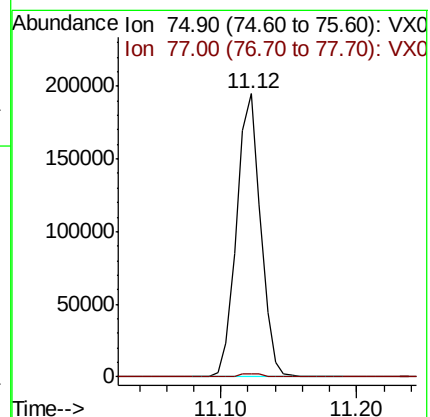
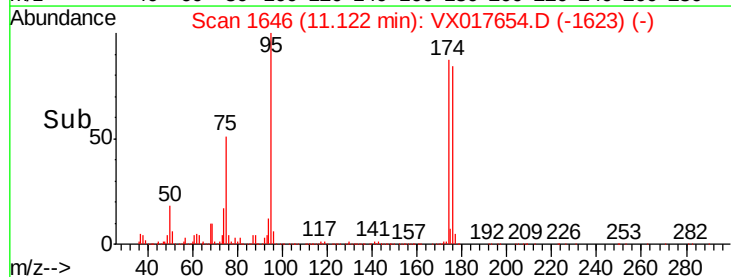
75 100

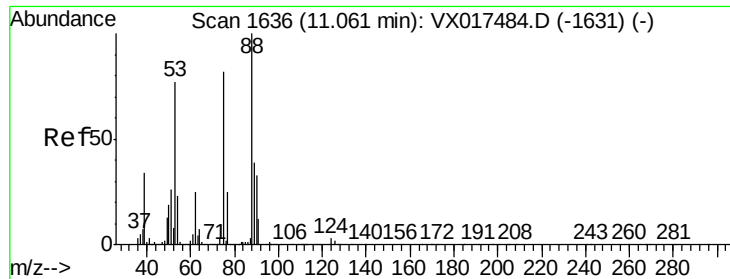
77 1.5 21.8 65.3#



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: 59.706 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017654.D

Acq: 28 Jul 2020 15:41

Instrument :

MSVOA_X

ClientSampled :

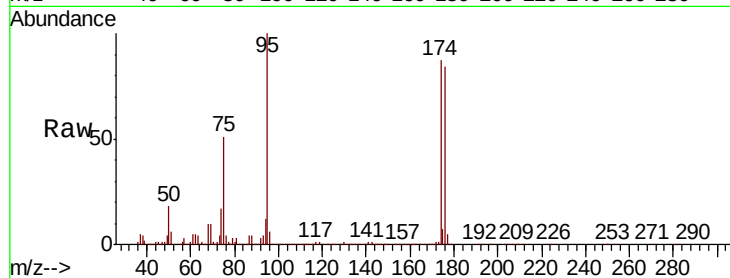
Tot Ion: 75 Resp: 239213

Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

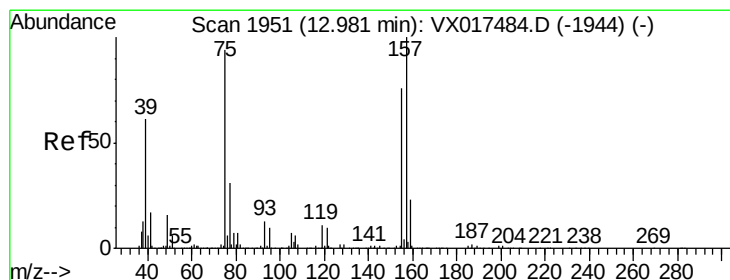
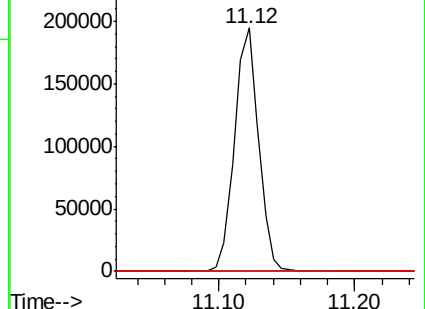
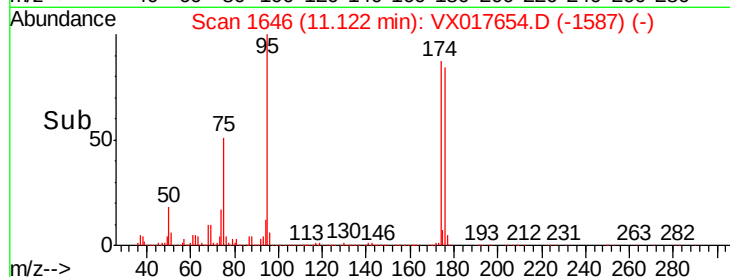
89 0.3 37.8 56.6#



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: 2.677 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VX017654.D

Acq: 28 Jul 2020 15:41

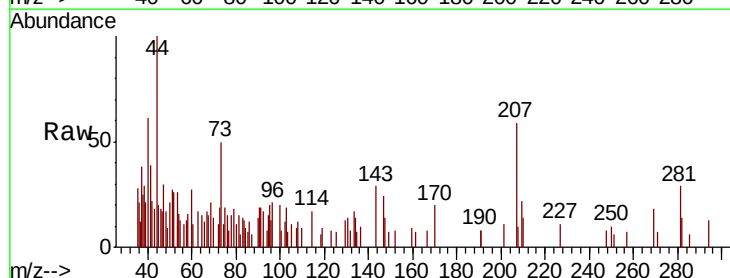
Tgt Ion: 75 Resp: 314

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 10.5 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

