

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX020620\
 Data File : VX014855.D
 Acq On : 06 Feb 2020 18:06
 Operator : JC/SP
 Sample : L1420-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 00:50:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	445331	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	683366	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	627803	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	294984	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	252872	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
35) Dibromofluoromethane	5.49	113	206907	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	8.71	98	803554	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
62) 4-Bromofluorobenzene	11.13	95	281839	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	

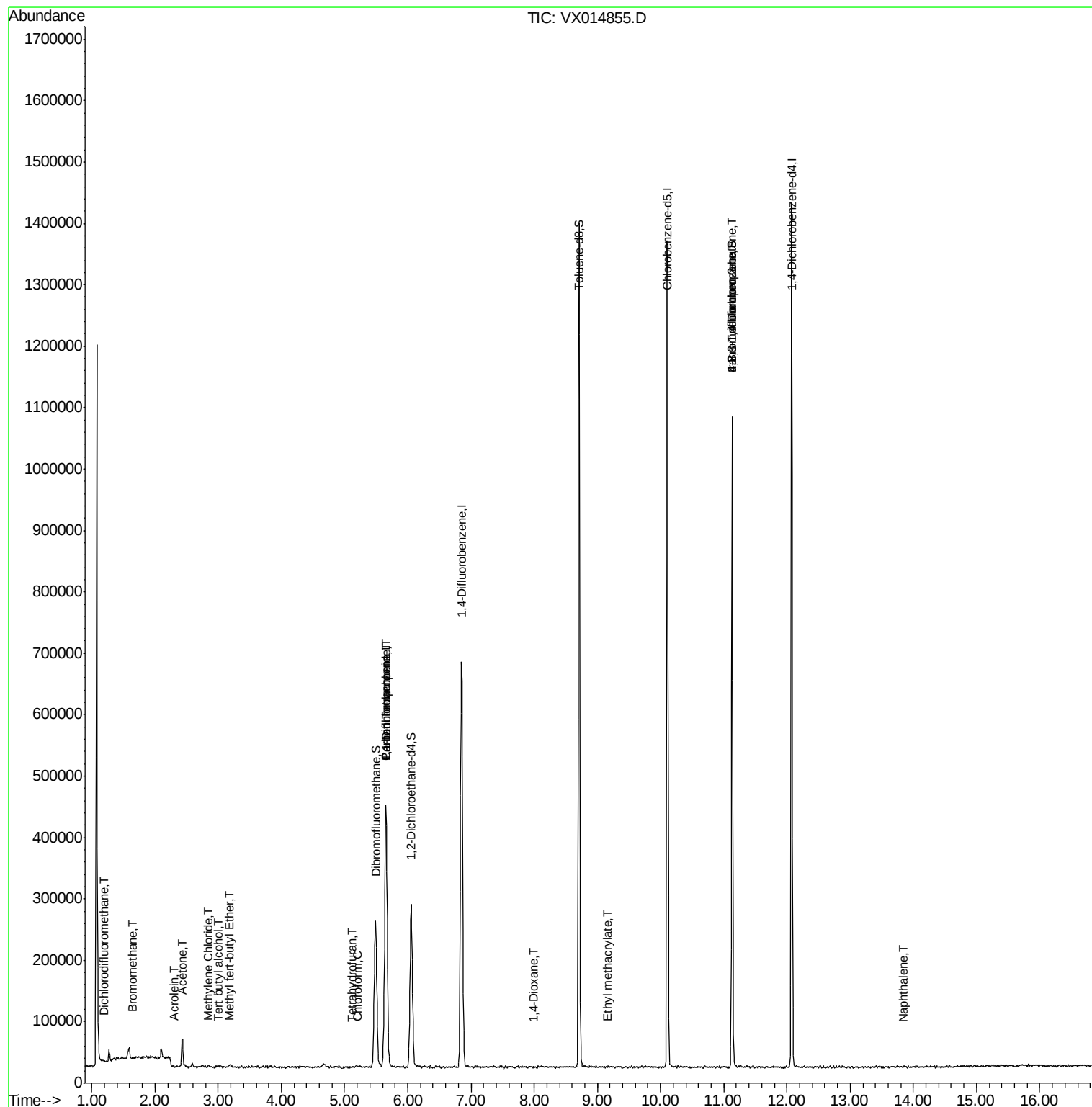
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	262	0.575	ug/l #	42
5) Bromomethane	1.64	94	1244	0.281	ug/l #	46
6) Chloroethane	1.70	64	514	Below Cal	#	81
11) Tert butyl alcohol	3.01	59	658	0.564	ug/l #	50
13) Acrolein	2.31	56	285	0.310	ug/l	85
16) Acetone	2.43	43	51404	18.175	ug/l	93
19) Methyl tert-butyl Ether	3.18	73	4199	0.290	ug/l #	85
20) Methylene Chloride	2.84	84	1321	0.250	ug/l	86
29) Tetrahydrofuran	5.12	42	961	0.397	ug/l #	45
30) Chloroform	5.21	83	2755	0.323	ug/l	85
36) 1,1-Dichloropropene	5.65	75	28775	4.532	ug/l #	53
38) Carbon Tetrachloride	5.65	117	38822	6.402	ug/l #	15
41) Methacrylonitrile	5.03	41	557	Below Cal	#	38
49) 1,4-Dioxane	7.98	88	187	1.550	ug/l	88
56) Ethyl methacrylate	9.17	69	142	1.801	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	139938	20.390	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	139938	58.027	ug/l #	10
95) Naphthalene	13.83	128	818	0.970	ug/l #	83

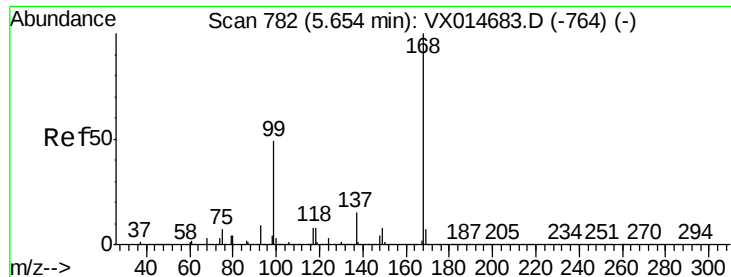
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Instrument :

MSVOA_X

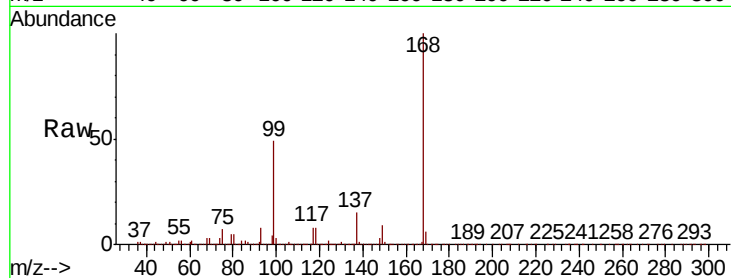
ClientSampleId :

Tot Ion:168 Resp: 445331

Ion Ratio Lower Upper

168 100

99 48.9 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

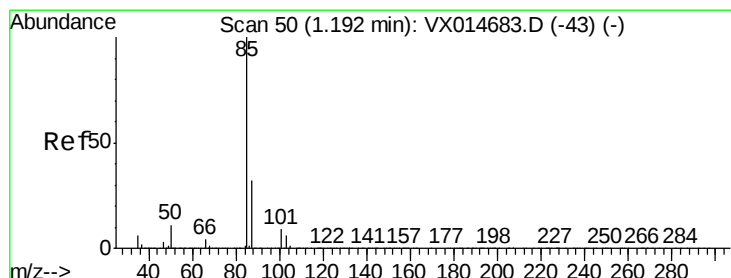
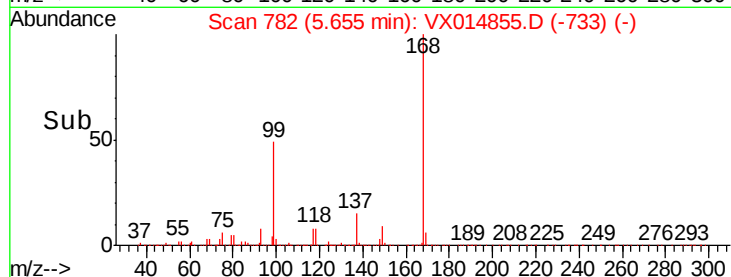
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.575 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014855.D

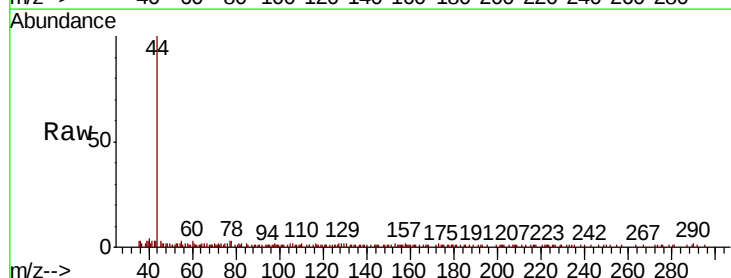
Acq: 06 Feb 2020 18:06

Tgt Ion: 85 Resp: 262

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

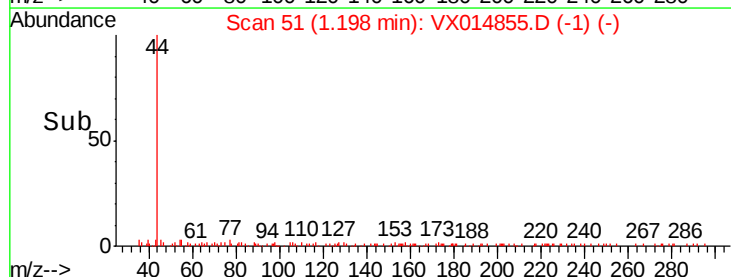
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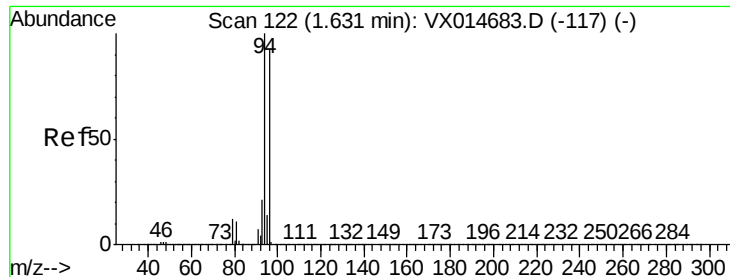
100

0

Time-->

1.18 1.20 1.22





#5

Bromomethane

Concen: 0.281 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

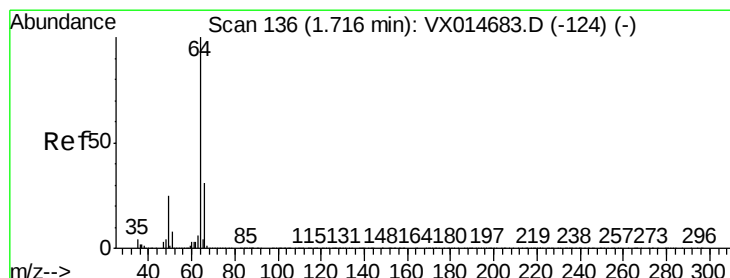
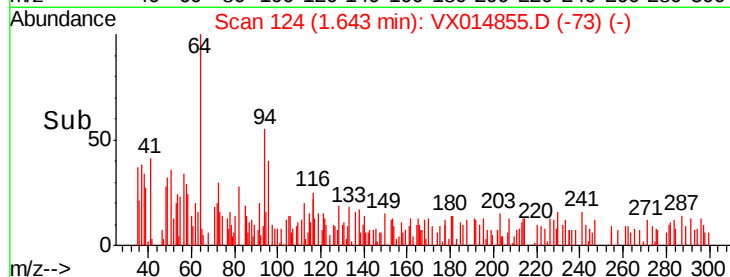
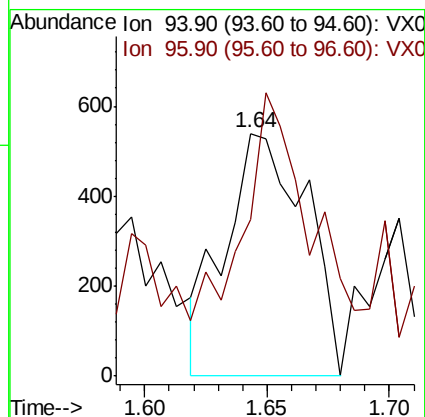
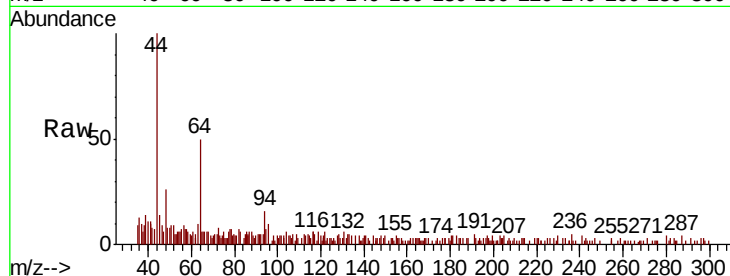
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 1244

Ion Ratio Lower Upper

94 100

96 41.5 74.7 112.1#



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX014855.D

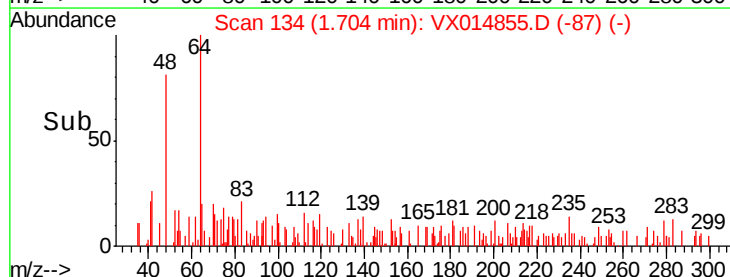
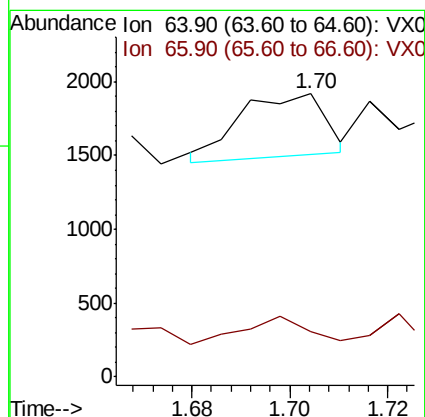
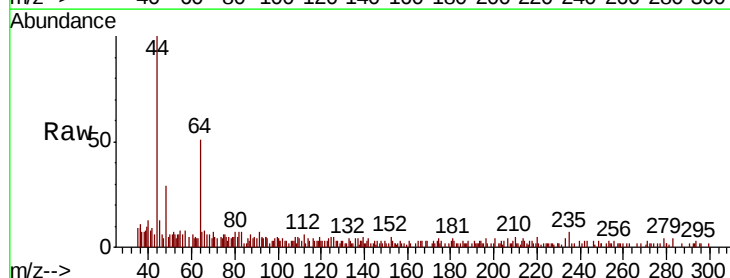
Acq: 06 Feb 2020 18:06

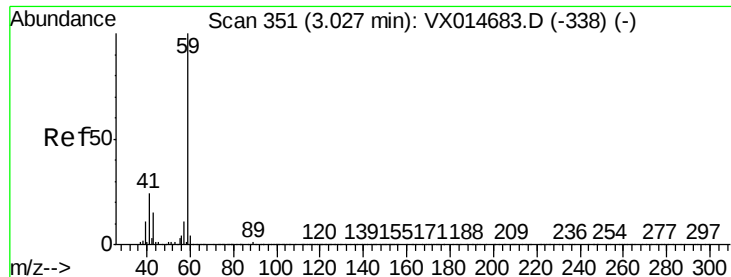
Tgt Ion: 64 Resp: 514

Ion Ratio Lower Upper

64 100

66 20.9 25.2 37.8#

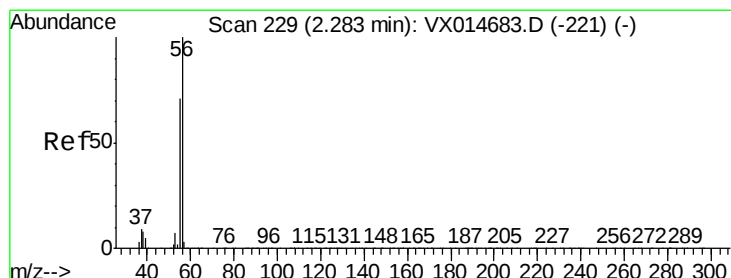
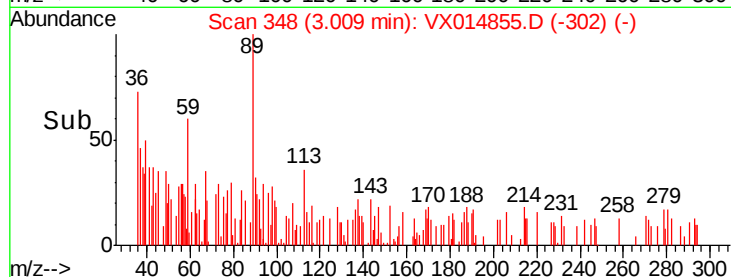
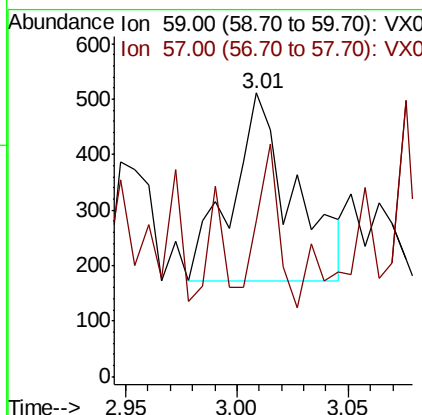
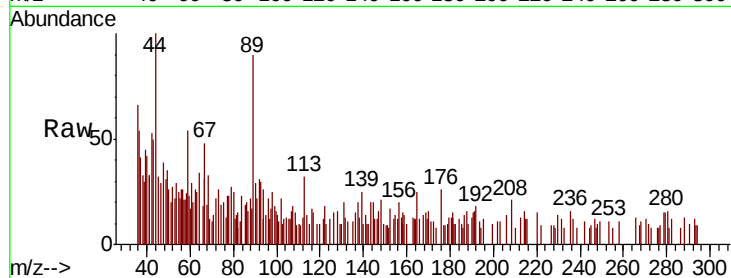




#11
Tert butyl alcohol
Concen: 0.564 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

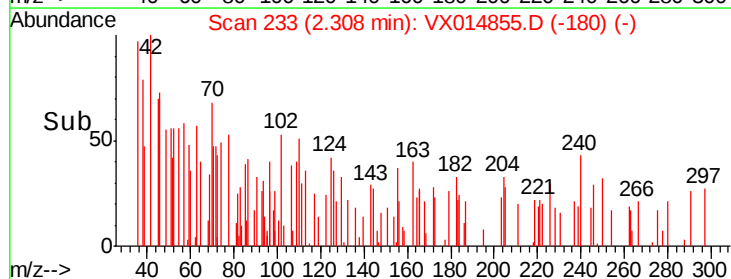
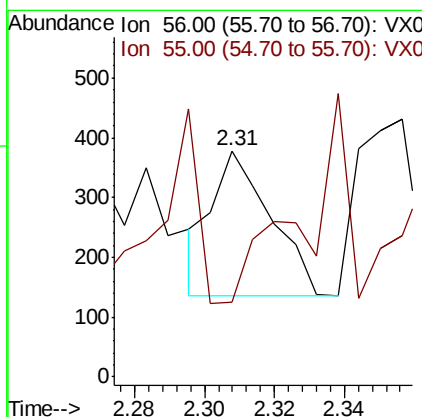
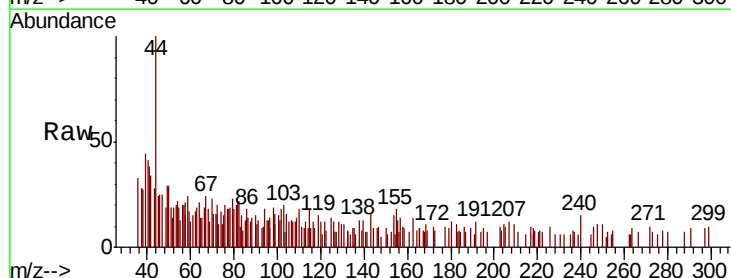
Instrument :
MSVOA_X
ClientSampled :

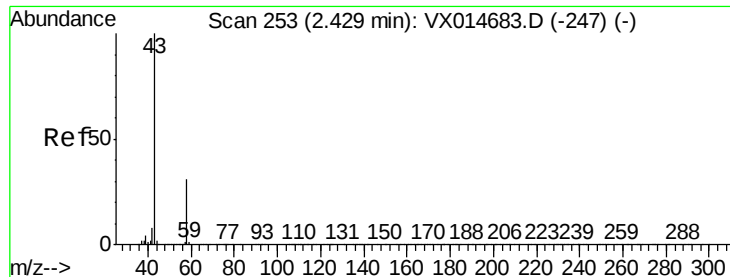
Tot Ion: 59 Resp: 658
Ion Ratio Lower Upper
59 100
57 29.2 8.3 12.5#



#13
Acrolein
Concen: 0.310 ug/l
RT: 2.31 min Scan# 233
Delta R.T. 0.02 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

Tgt Ion: 56 Resp: 285
Ion Ratio Lower Upper
56 100
55 83.2 56.6 84.8





#16

Acetone

Concen: 18.175 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Instrument :

MSVOA_X

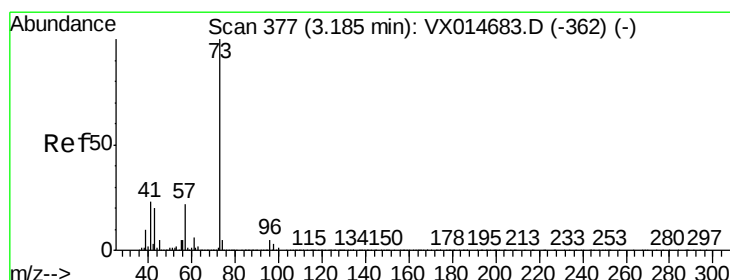
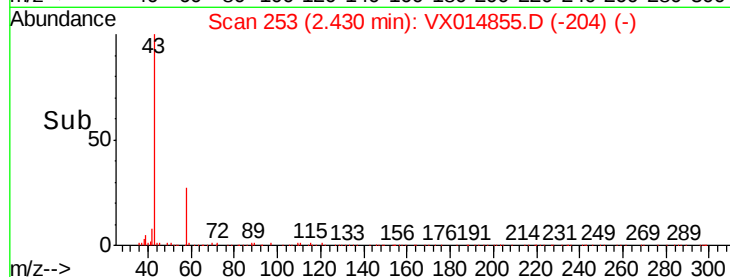
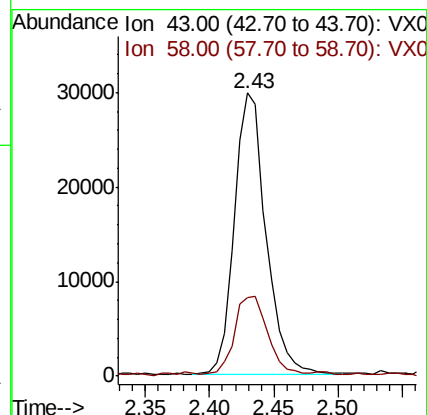
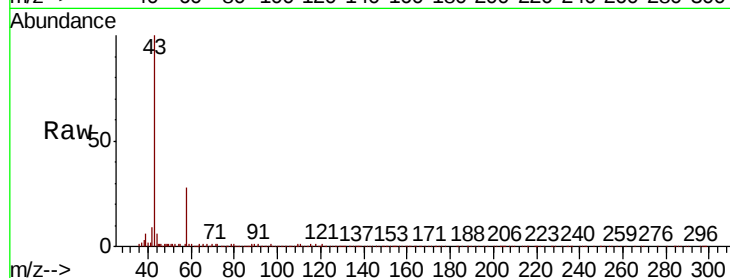
ClientSampleId :

Tot Ion: 43 Resp: 51404

Ion Ratio Lower Upper

43 100

58 26.9 24.5 36.7



#19

Methyl tert-butyl Ether

Concen: 0.290 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.01 min

Lab File: VX014855.D

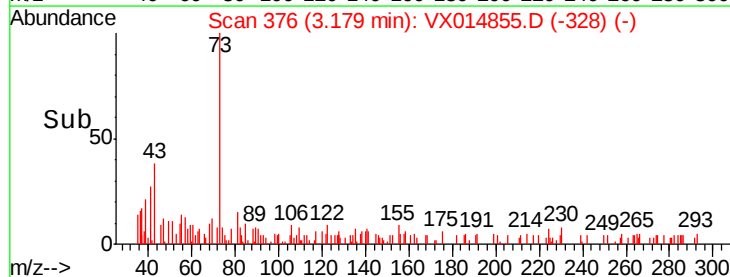
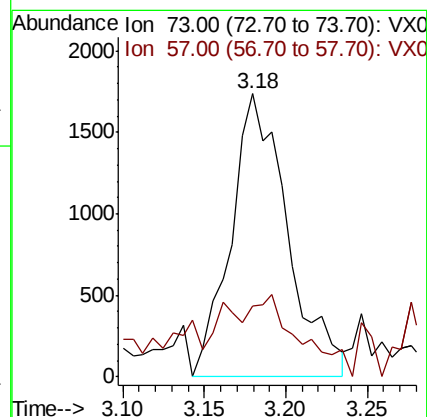
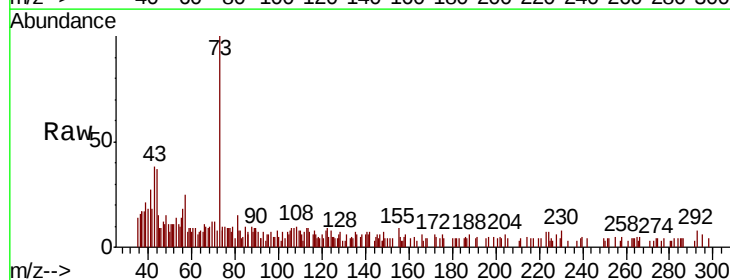
Acq: 06 Feb 2020 18:06

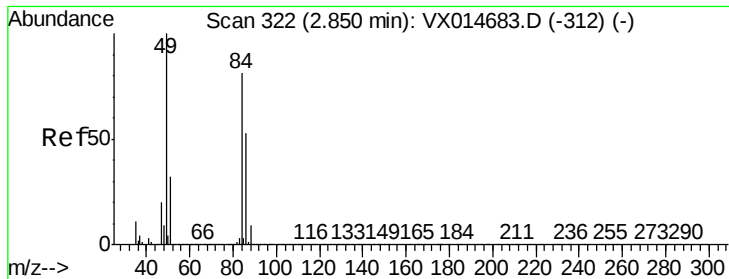
Tgt Ion: 73 Resp: 4199

Ion Ratio Lower Upper

73 100

57 15.5 18.0 27.0#

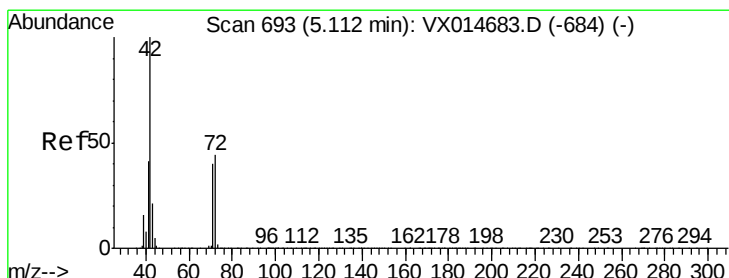
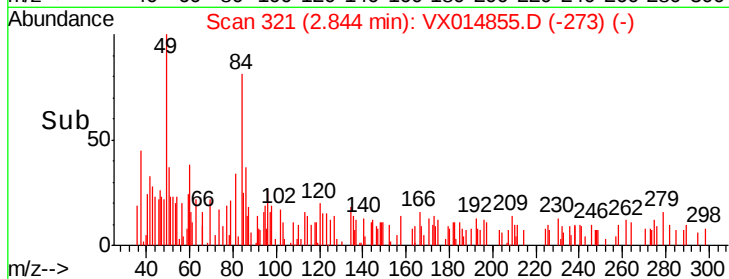
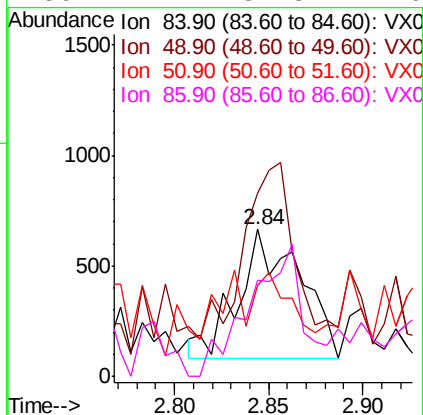
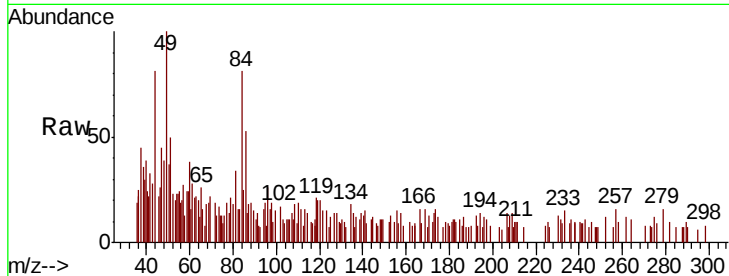




#20
Methvlene Chloride
Concen: 0.250 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

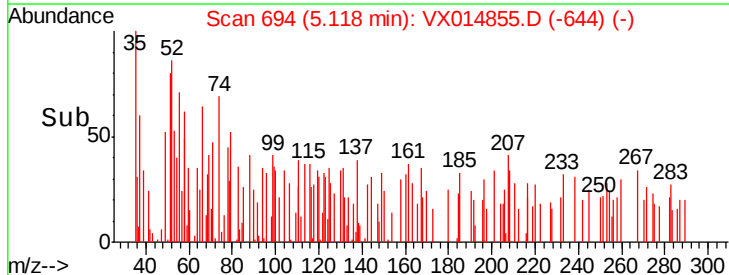
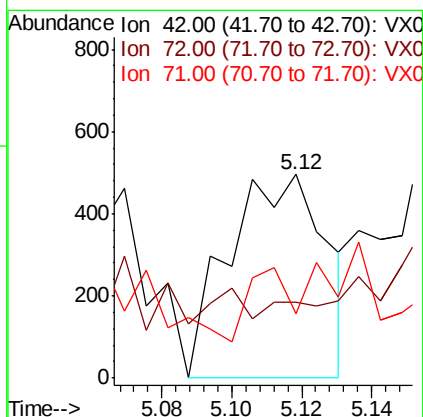
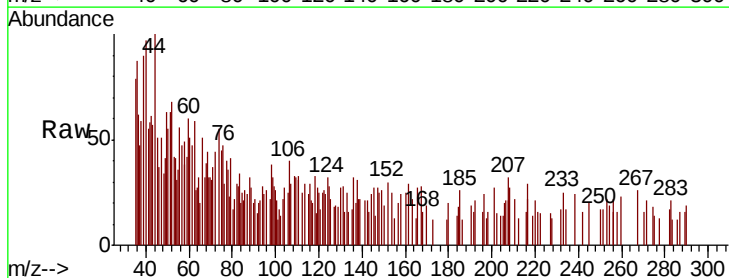
Instrument :
MSVOA_X
ClientSampled :

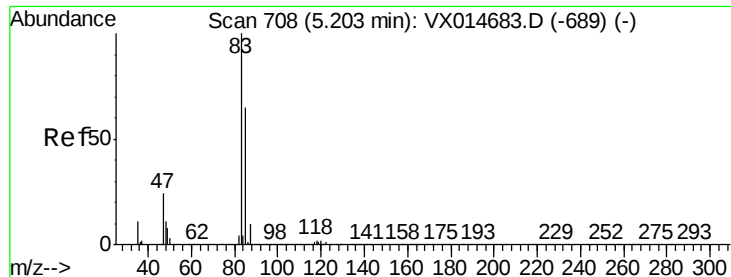
Tot Ion:	84	Resp:	1321
Ion	Ratio	Lower	Upper
84	100		
49	102.7	98.2	147.4
51	34.9	31.3	46.9
86	74.7	51.8	77.6



#29
Tetrahydrofuran
Concen: 0.397 ug/l
RT: 5.12 min Scan# 694
Delta R.T. 0.01 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

Tgt Ion:	42	Resp:	961
Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.3	52.9#
71	15.6	33.1	49.7#

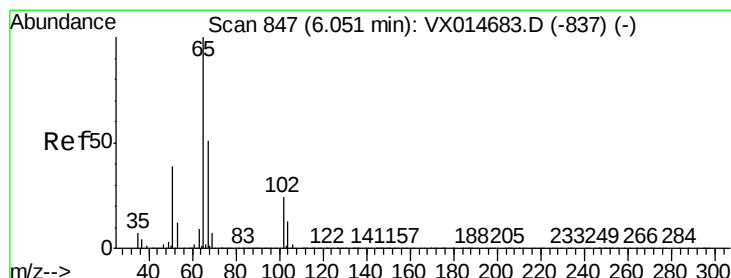
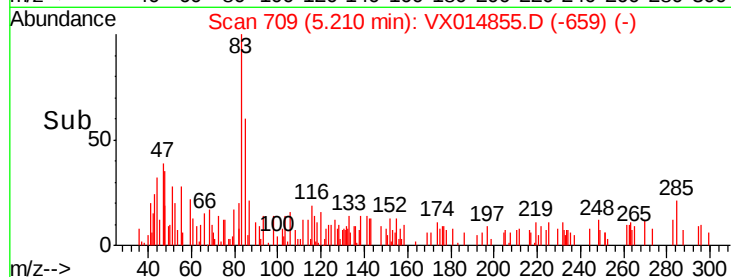
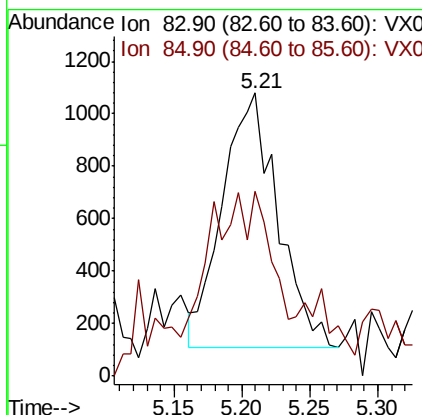
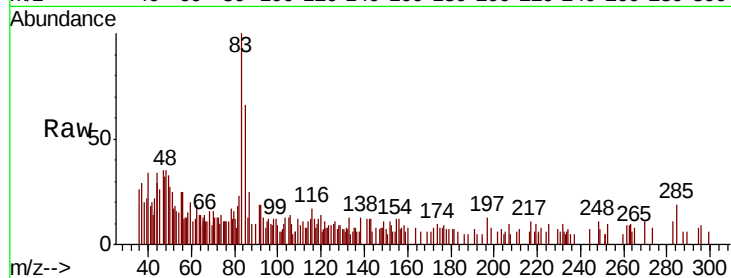




#30
Chloroform
Concen: 0.323 ug/l
RT: 5.21 min Scan# 709
Delta R.T. 0.01 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

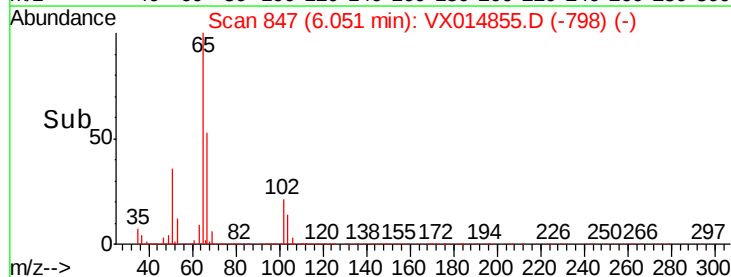
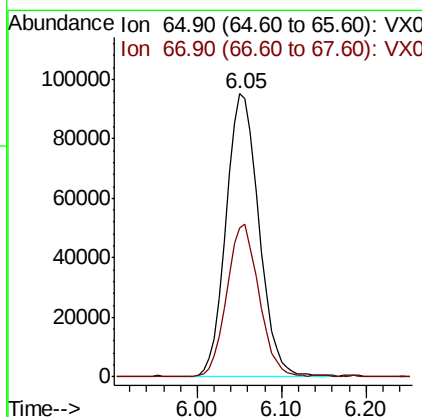
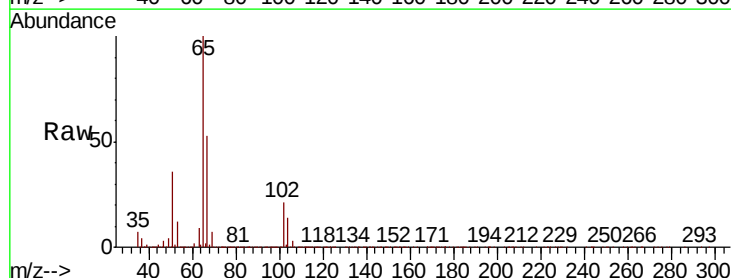
Instrument :
MSVOA_X
ClientSampled :

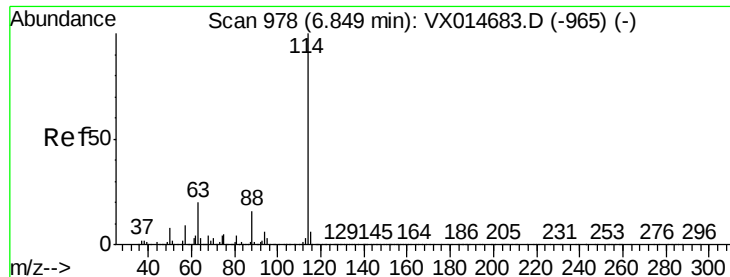
Tot Ion: 83 Resp: 2755
Ion Ratio Lower Upper
83 100
85 53.2 51.7 77.5



#33
1,2-Dichloroethane-d4
Concen: 48.625 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

Tgt Ion: 65 Resp: 252872
Ion Ratio Lower Upper
65 100
67 52.3 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Instrument :

MSVOA_X

ClientSampleId :

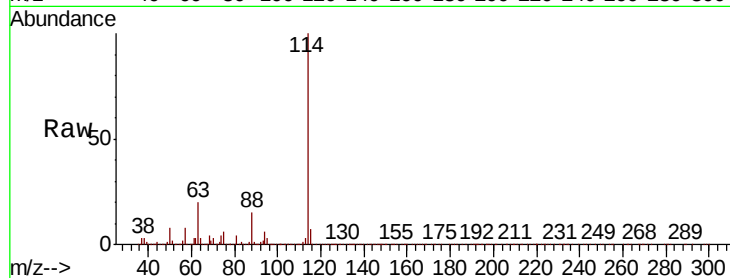
Tot Ion:114 Resp: 683366

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

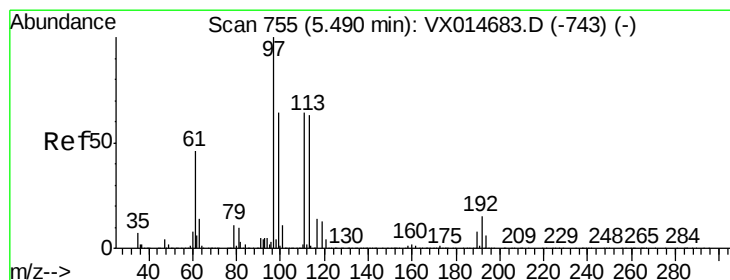
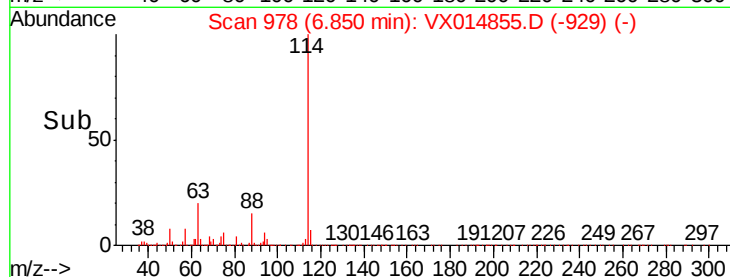
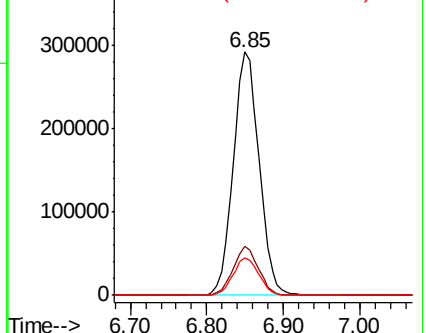
88 15.4 0.0 31.2



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: 47.984 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

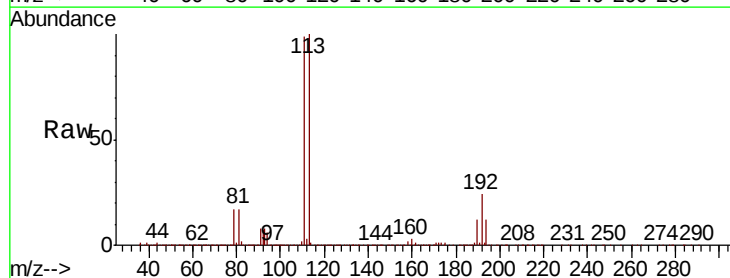
Tgt Ion:113 Resp: 206907

Ion Ratio Lower Upper

113 100

111 102.4 80.7 121.1

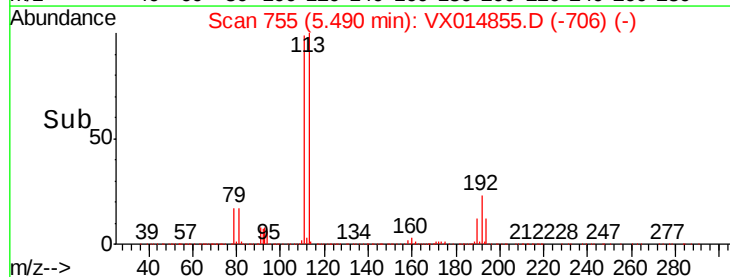
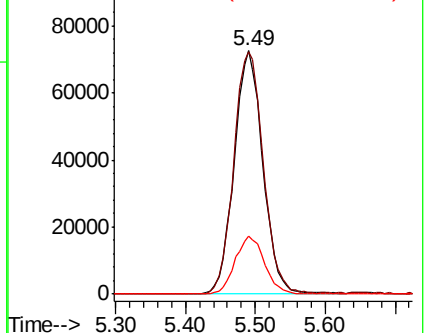
192 24.1 18.5 27.7

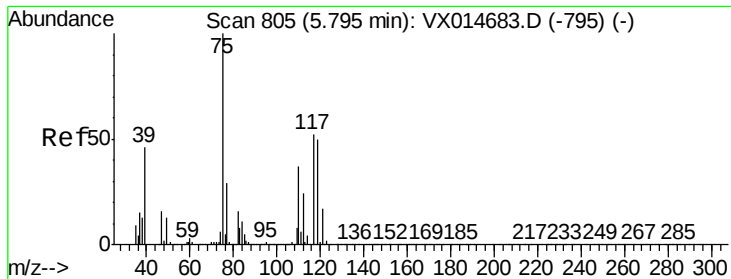


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.532 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Instrument :

MSVOA_X

ClientSampled :

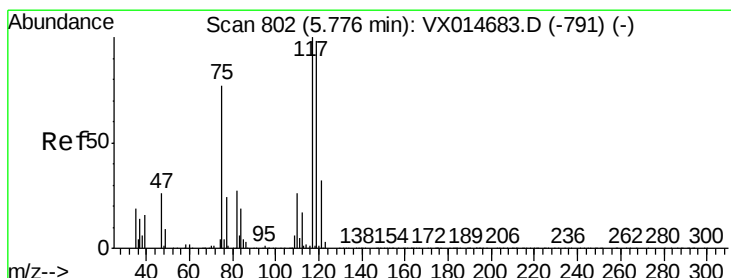
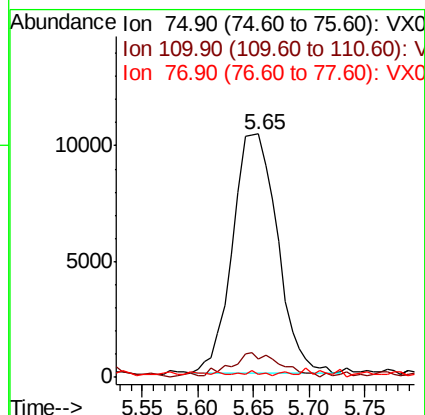
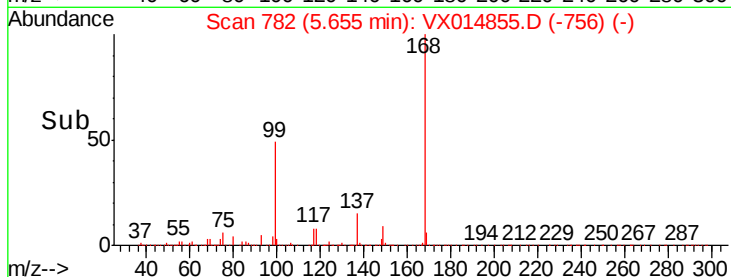
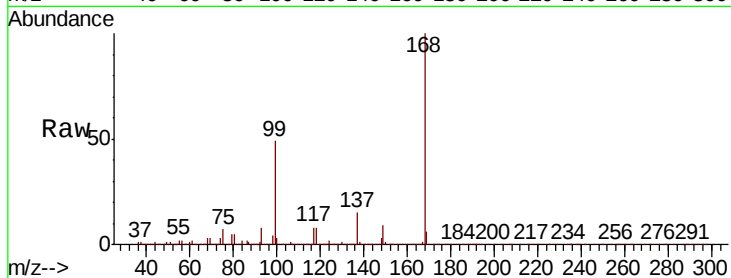
Tot Ion: 75 Resp: 28775

Ion Ratio Lower Upper

75 100

110 12.0 17.9 53.7#

77 0.7 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 6.402 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

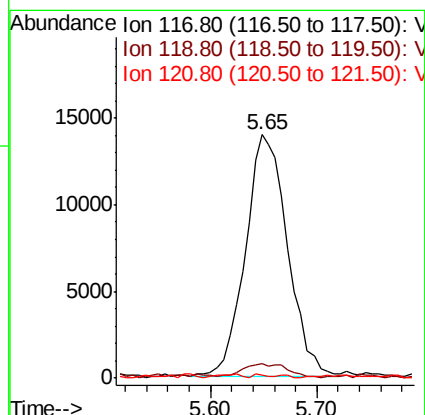
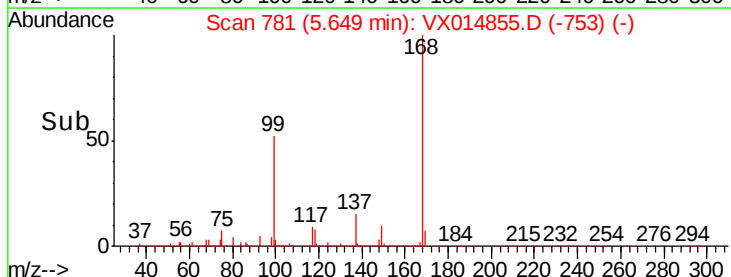
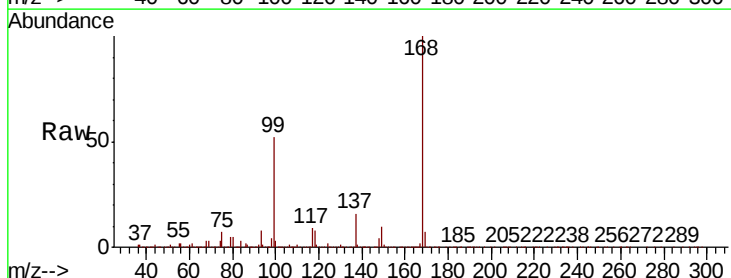
Tgt Ion: 117 Resp: 38822

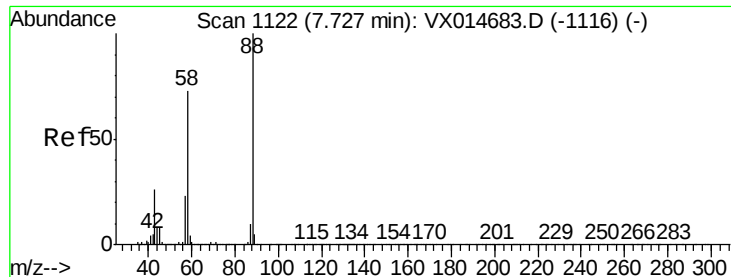
Ion Ratio Lower Upper

117 100

119 5.1 77.9 116.9#

121 0.0 25.4 38.2#





#49

1,4-Dioxane

Concen: 1.550 ug/l

RT: 7.98 min Scan# 1164

Delta R.T. 0.26 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Instrument :

MSVOA_X

ClientSampleId :

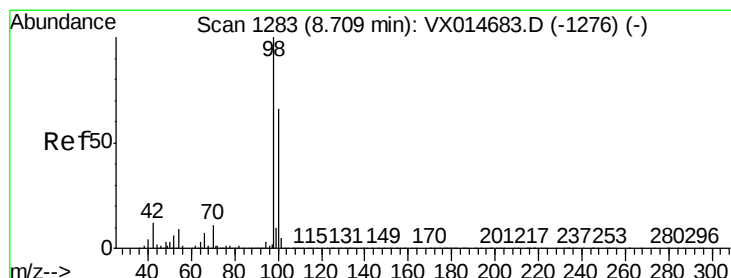
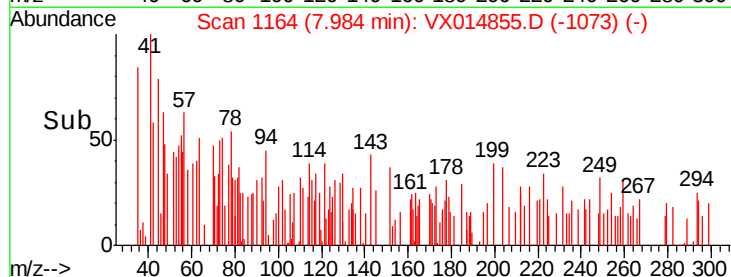
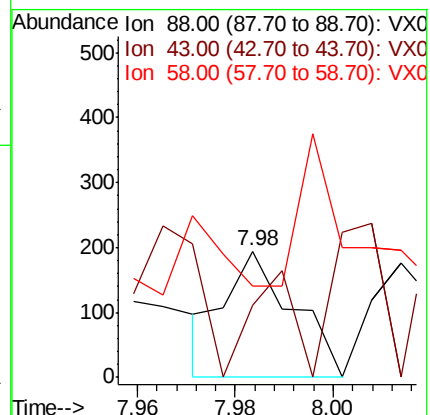
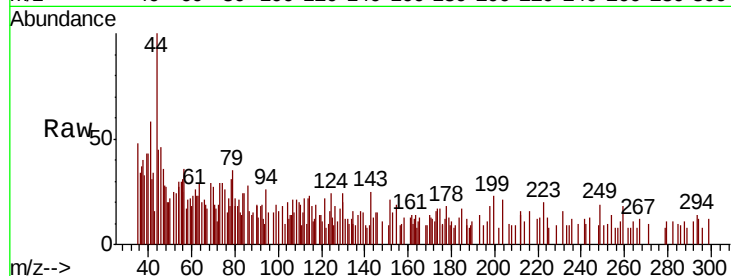
Tot Ion: 88 Resp: 187

Ion Ratio Lower Upper

88 100

43 32.1 26.2 39.2

58 57.2 56.6 85.0



#50

Toluene-d8

Concen: 48.474 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014855.D

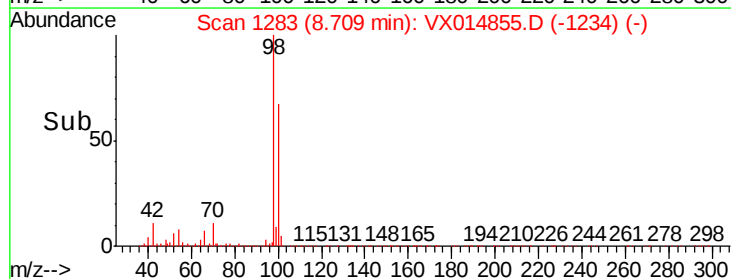
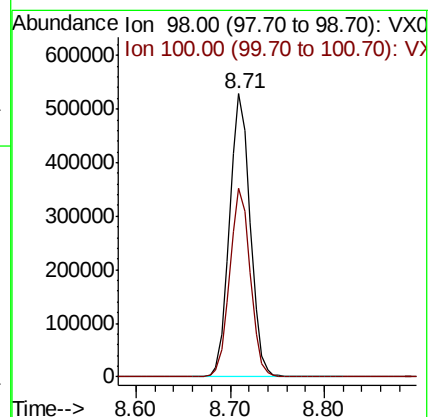
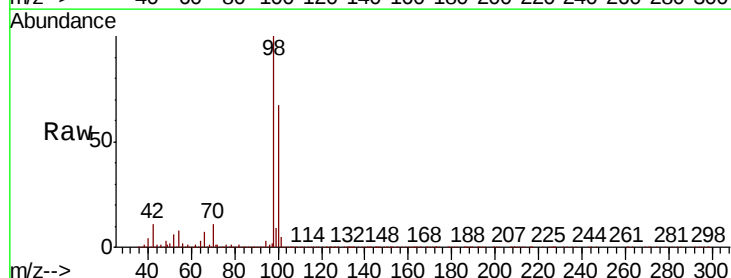
Acq: 06 Feb 2020 18:06

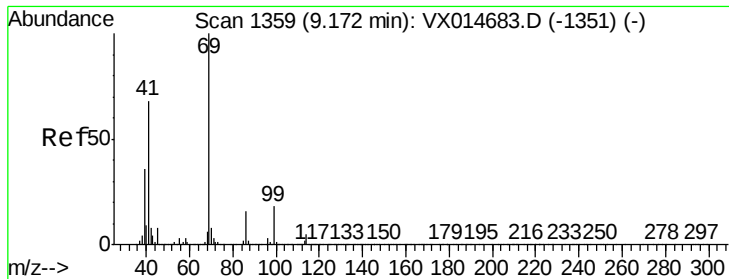
Tgt Ion: 98 Resp: 803554

Ion Ratio Lower Upper

98 100

100 66.1 53.0 79.6





#56

Ethyl methacrylate

Concen: 1.801 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

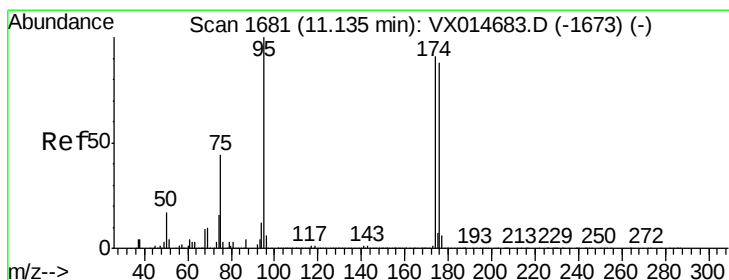
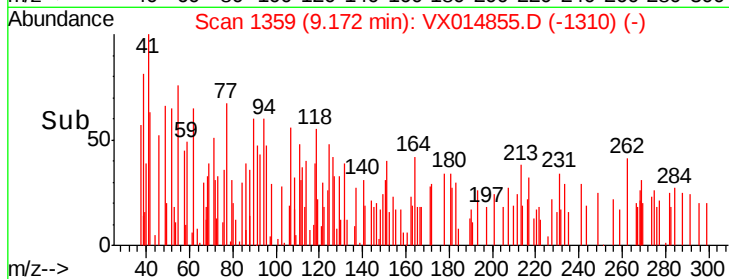
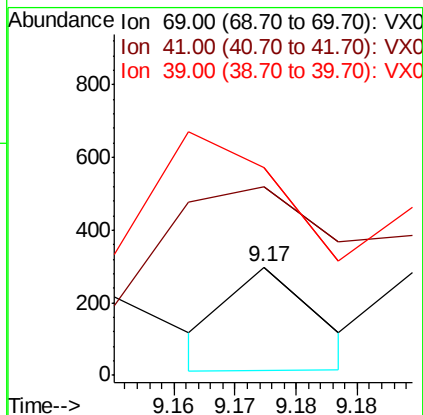
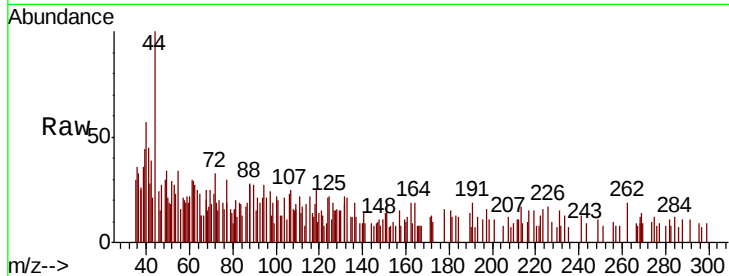
Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 69 Resp: 142

Ion	Ratio	Lower	Upper
69	100		
41	440.8	54.9	82.3#
39	939.4	29.3	43.9#



#62

4-Bromofluorobenzene

Concen: 47.728 ug/l

RT: 11.13 min Scan# 1680

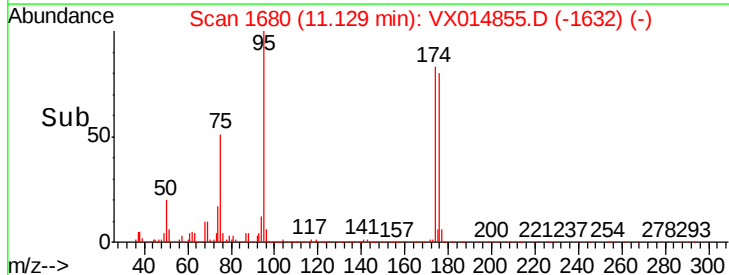
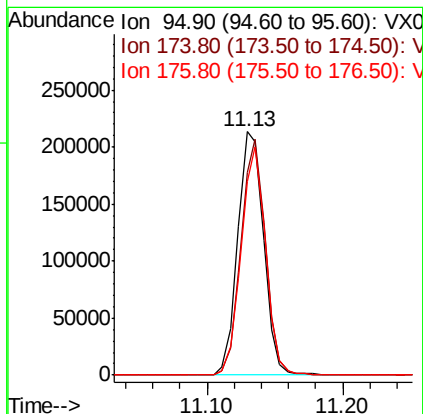
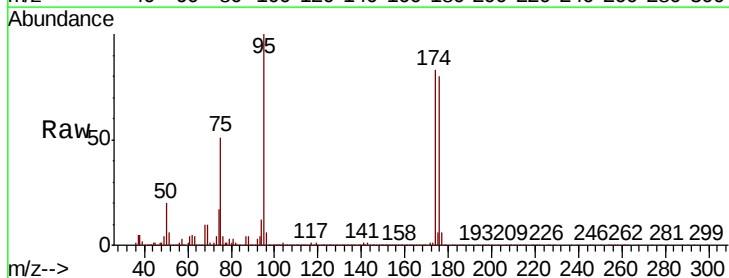
Delta R.T. -0.01 min

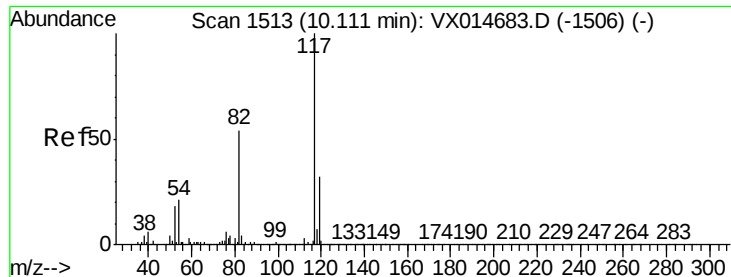
Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Tgt Ion: 95 Resp: 281839

Ion	Ratio	Lower	Upper
95	100		
174	92.1	0.0	176.0
176	88.9	0.0	172.2

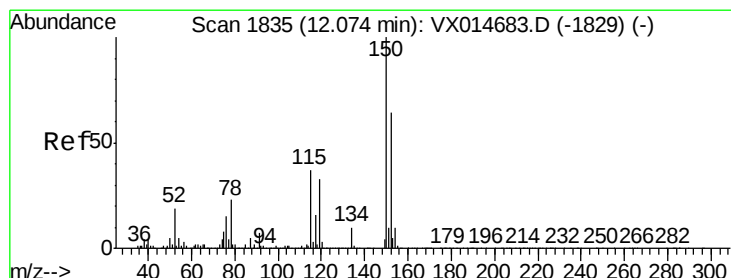
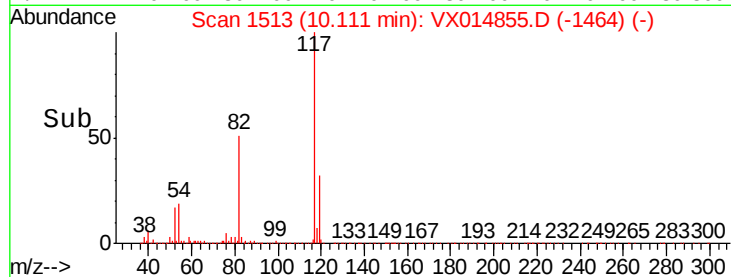
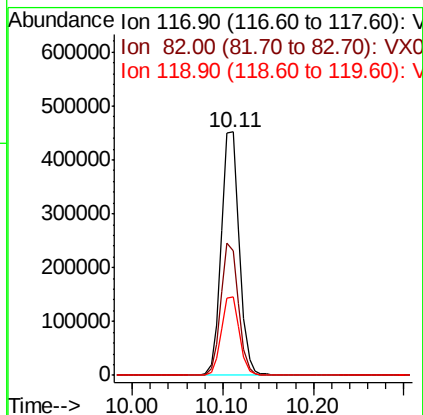
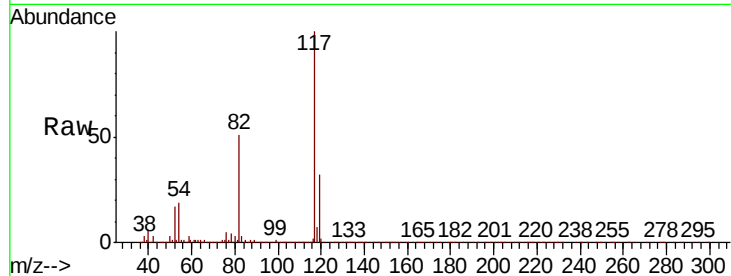




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

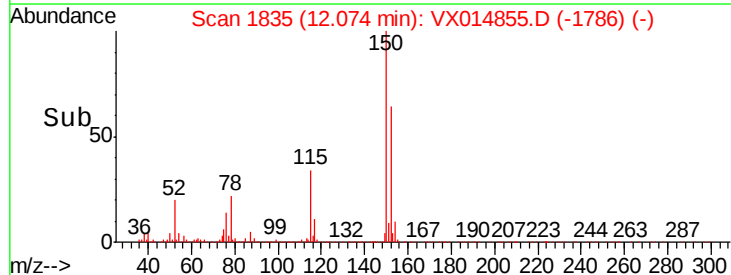
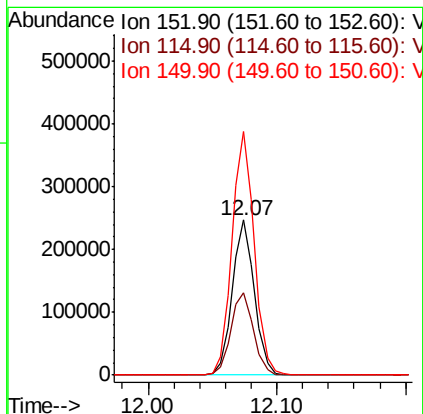
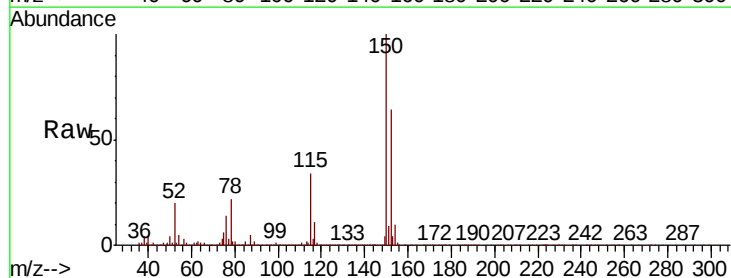
Instrument :
MSVOA_X
ClientSampleId :

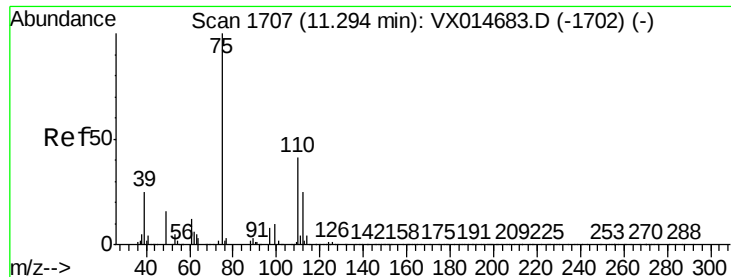
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.2	43.2	64.8
119	32.1	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014855.D
Acq: 06 Feb 2020 18:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.4	118.1
150	158.4	0.0	351.2





#76

1,2,3-Trichloropropane

Concen: 20.390 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

Instrument :

MSVOA_X

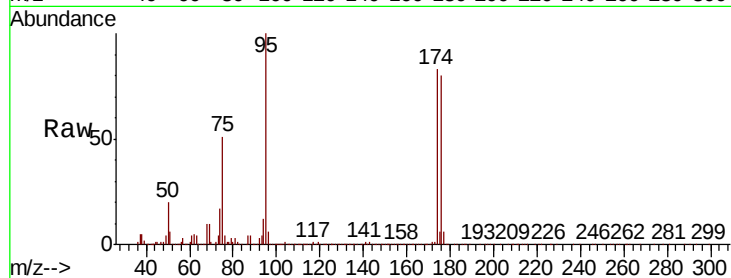
ClientSampled :

Tot Ion: 75 Resp: 139938

Ion Ratio Lower Upper

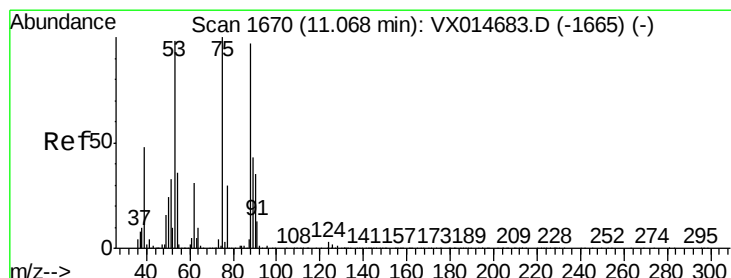
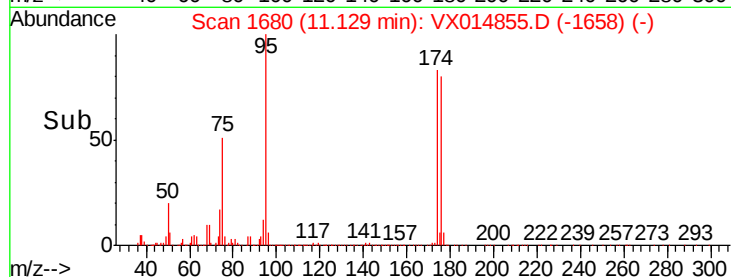
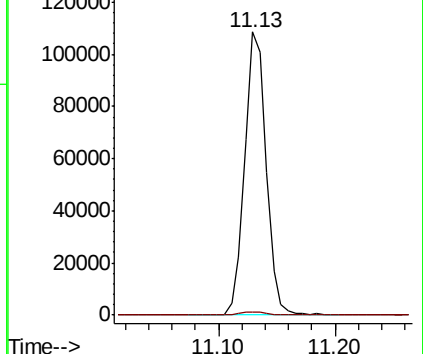
75 100

77 1.3 18.7 56.1#



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: 58.027 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014855.D

Acq: 06 Feb 2020 18:06

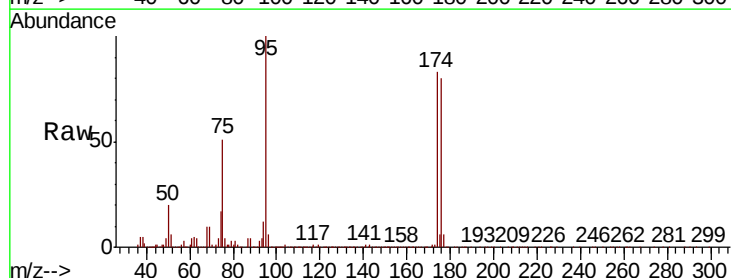
Tgt Ion: 75 Resp: 139938

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

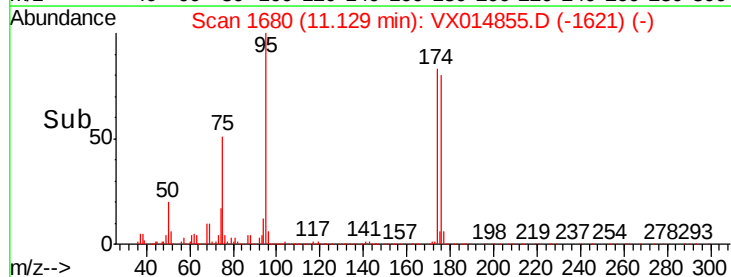
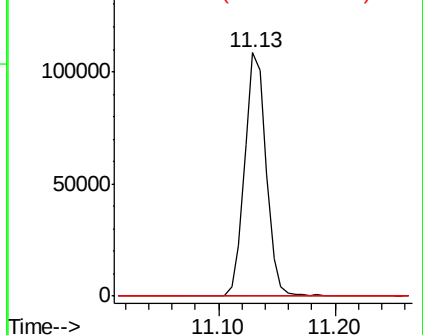
89 0.0 35.4 53.0#

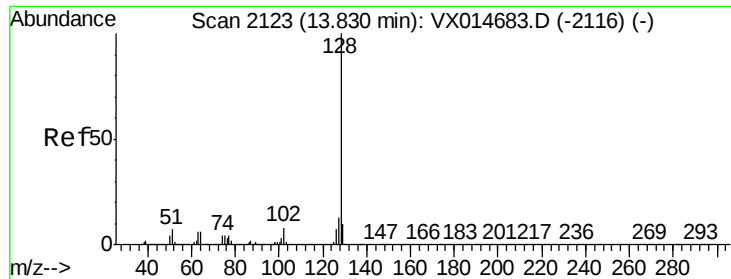


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
 Naphthalene
 Concen: 0.970 ug/l
 RT: 13.83 min Scan# 2123
 Delta R.T. 0.00 min
 Lab File: VX014855.D
 Acq: 06 Feb 2020 18:06

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.3	15.5#
129	0.0	8.6	12.8#

