

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010820\
 Data File : VX014471.D
 Acq On : 08 Jan 2020 15:11
 Operator : JC/SP
 Sample : L1039-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:09:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	539710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	831780	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	754041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	348876	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	294303	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
35) Dibromofluoromethane	5.49	113	241717	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	8.71	98	992287	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	11.13	95	340599	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	

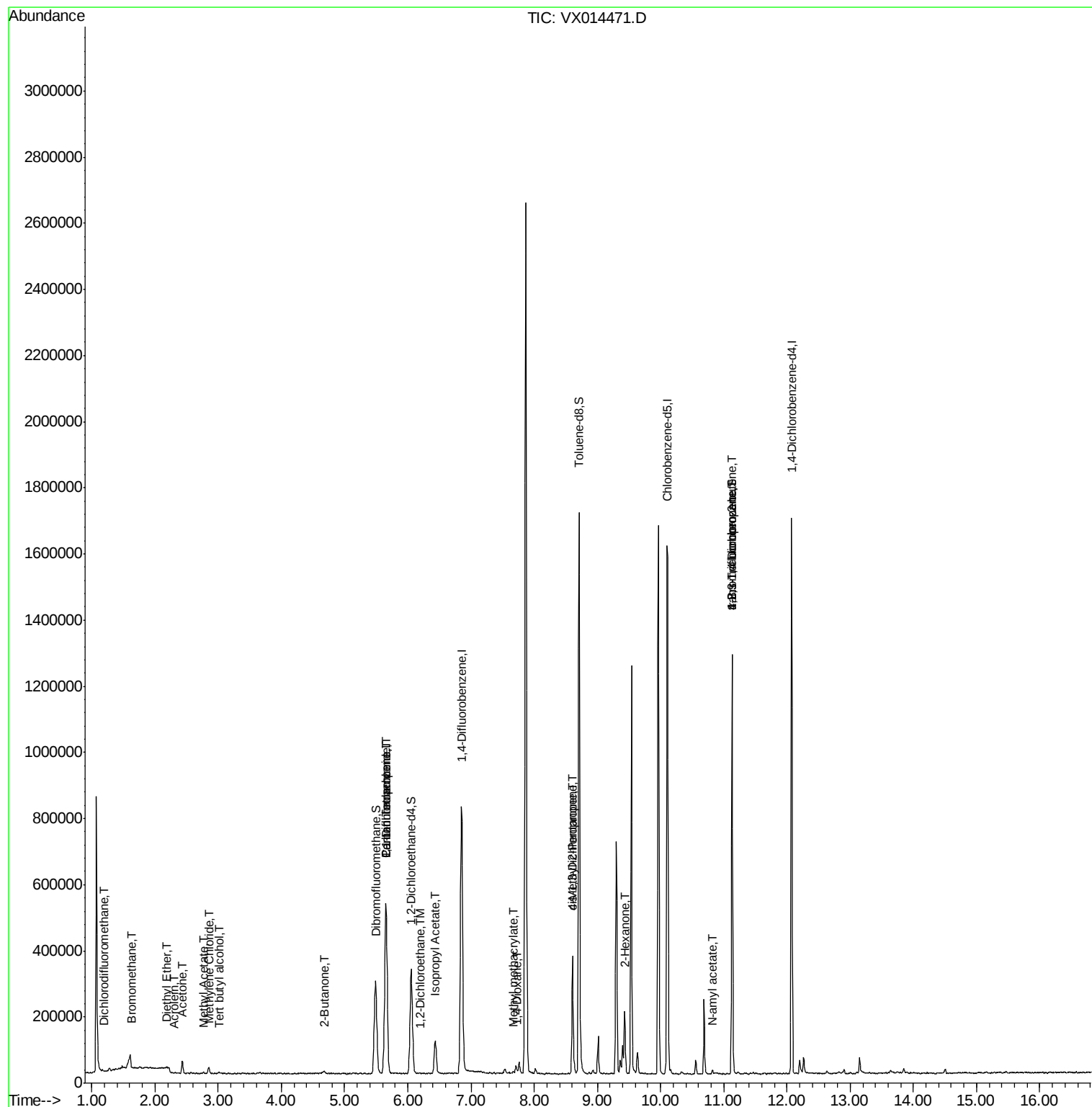
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	108	0.269	ug/l #	23
5) Bromomethane	1.64	94	1503	0.296	ug/l #	59
6) Chloroethane	1.76	64	550	Below Cal		93
8) Diethyl Ether	2.18	74	1776	0.448	ug/l	93
11) Tert butyl alcohol	3.01	59	3188	2.534	ug/l #	75
13) Acrolein	2.30	56	267	0.265	ug/l	87
16) Acetone	2.43	43	42322	9.998	ug/l	98
18) Methyl Acetate	2.77	43	7331	0.847	ug/l	91
20) Methylene Chloride	2.86	84	9744	1.608	ug/l #	94
25) 2-Butanone	4.68	43	4002	0.889	ug/l	93
36) 1,1-Dichloropropene	5.65	75	35583	4.549	ug/l #	49
38) Carbon Tetrachloride	5.65	117	47381	6.582	ug/l #	17
42) 1,2-Dichloroethane	6.18	62	1752	0.216	ug/l	77
43) Isopropyl Acetate	6.43	43	133045	9.693	ug/l	98
48) Methyl methacrylate	7.67	41	7677	1.168	ug/l #	15
49) 1,4-Dioxane	7.73	88	513	3.683	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	124992	14.944	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	59413	6.285	ug/l #	57
59) 2-Hexanone	9.43	43	152280	23.010	ug/l #	23
74) N-amyl acetate	10.82	43	6564	0.607	ug/l #	57
76) 1,2,3-Trichloropropane	11.13	75	166867	23.117	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	166867	61.117	ug/l #	12
88) 1,4-Dichlorobenzene	12.33	146	275	Below Cal		88
93) 1,2,4-Trichlorobenzene	13.65	180	653	Below Cal		73
96) 1,2,3-Trichlorobenzene	14.02	180	402	Below Cal	#	53

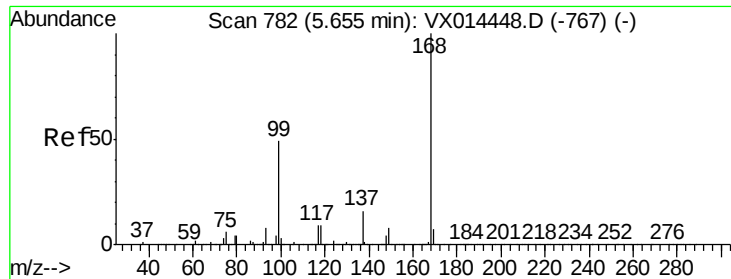
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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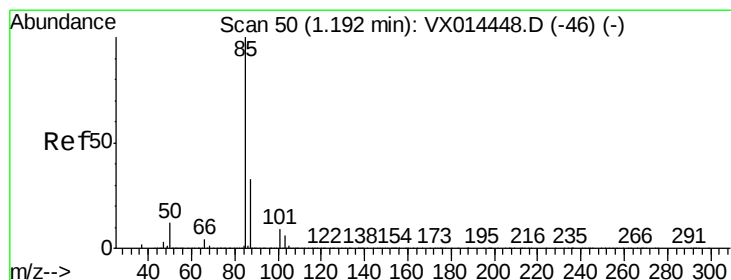
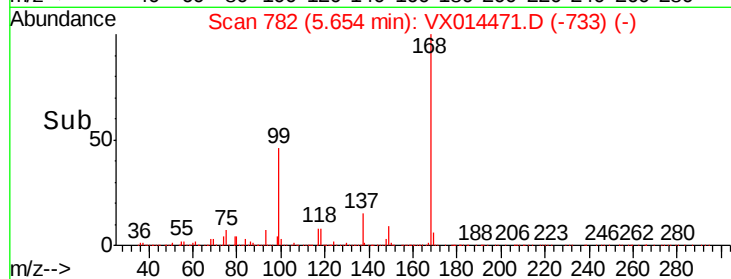
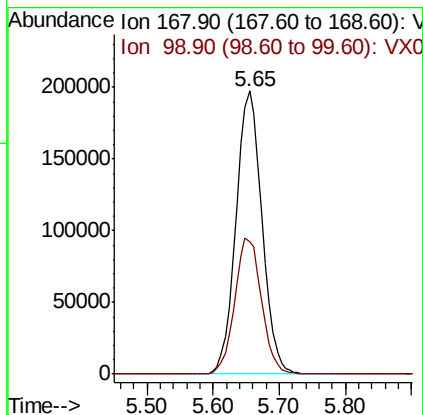
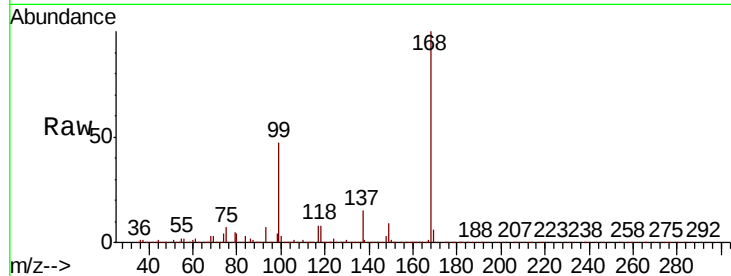


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.00 min
 Lab File: VX014471.D
 Acq: 08 Jan 2020 15:11

Instrument :
 MSVOA_X
 ClientSampled :

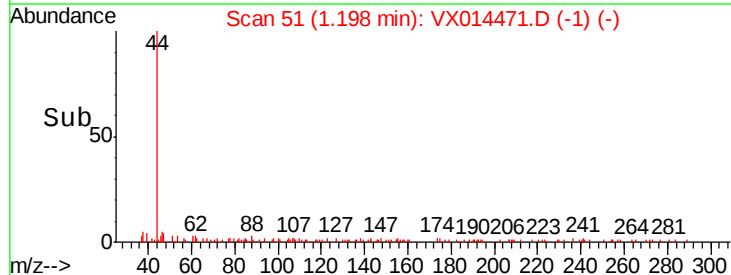
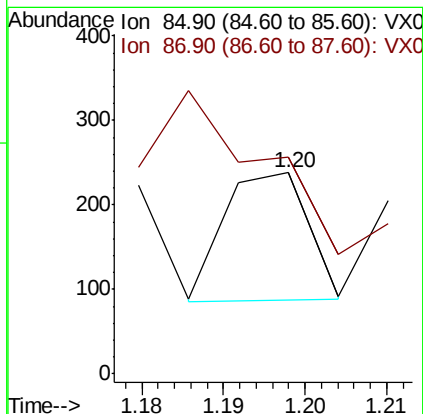
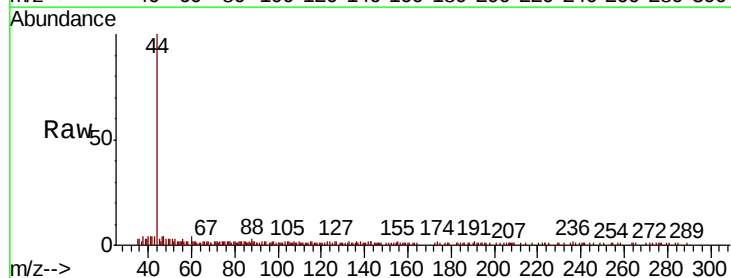
Tot Ion:168 Resp: 539710
 Ion Ratio Lower Upper
 168 100
 99 46.5 39.2 58.8

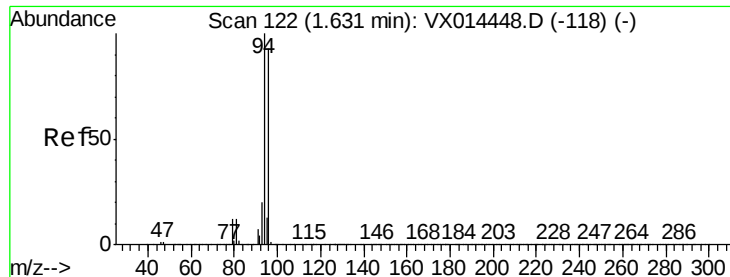


#2

Dichlorodifluoromethane
 Concen: 0.269 ug/l
 RT: 1.20 min Scan# 51
 Delta R.T. 0.01 min
 Lab File: VX014471.D
 Acq: 08 Jan 2020 15:11

Tgt Ion: 85 Resp: 108
 Ion Ratio Lower Upper
 85 100
 87 76.5 16.5 49.5#





#5

Bromomethane

Concen: 0.296 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

Instrument :

MSVOA_X

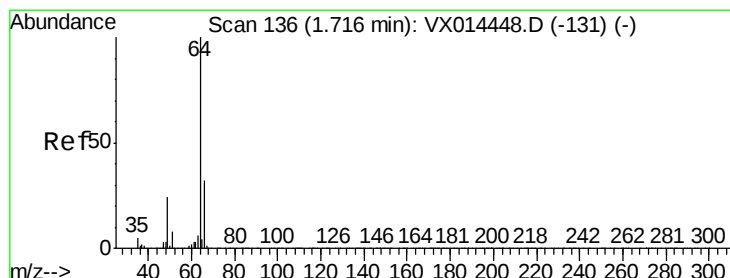
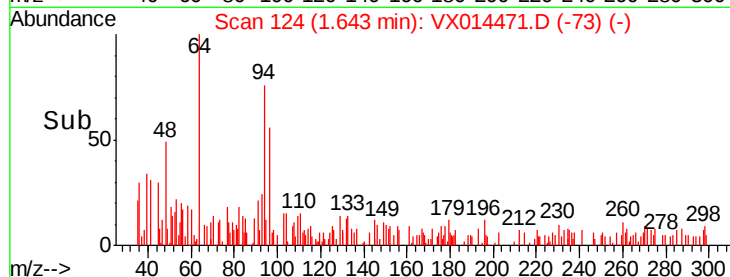
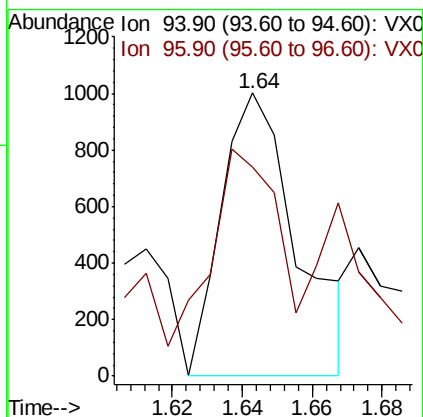
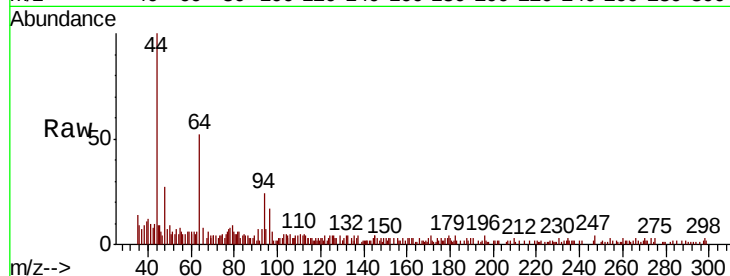
ClientSampled :

Tot Ion: 94 Resp: 1503

Ion Ratio Lower Upper

94 100

96 53.1 74.2 111.2#



#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 144

Delta R.T. 0.05 min

Lab File: VX014471.D

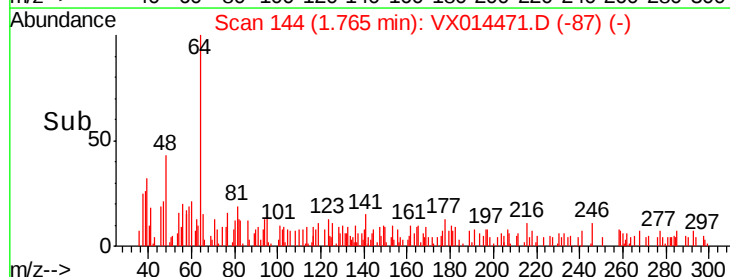
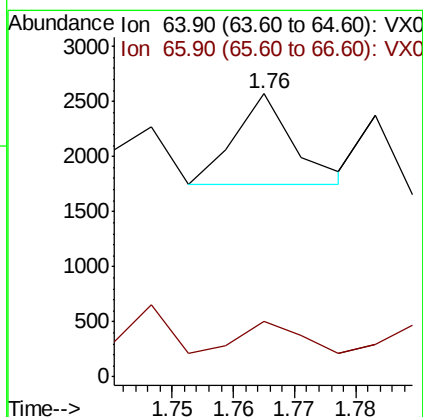
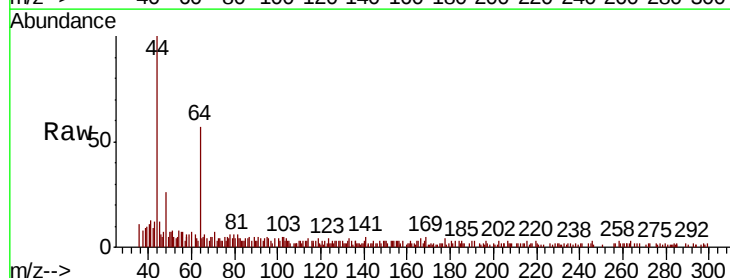
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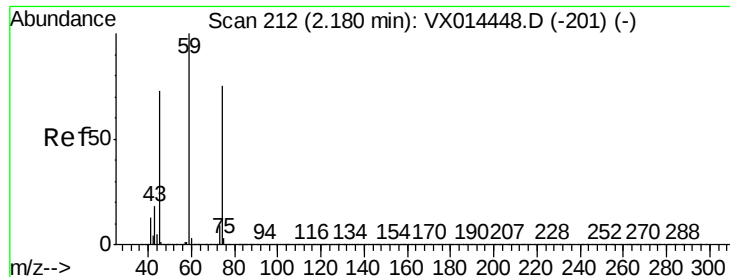
Tgt Ion: 64 Resp: 550

Ion Ratio Lower Upper

64 100

66 35.2 25.3 37.9





#8

Diethyl Ether

Concen: 0.448 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

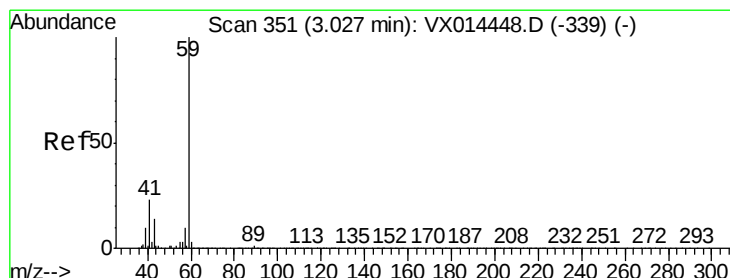
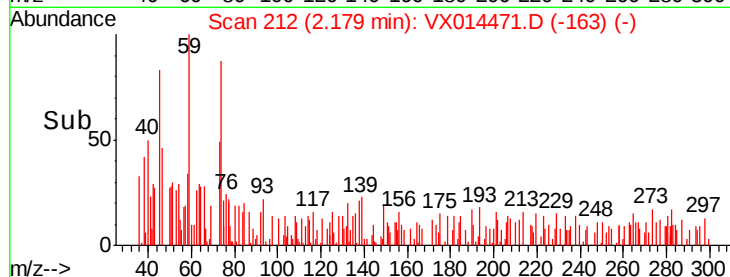
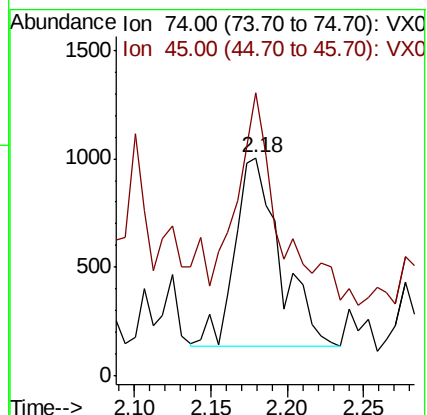
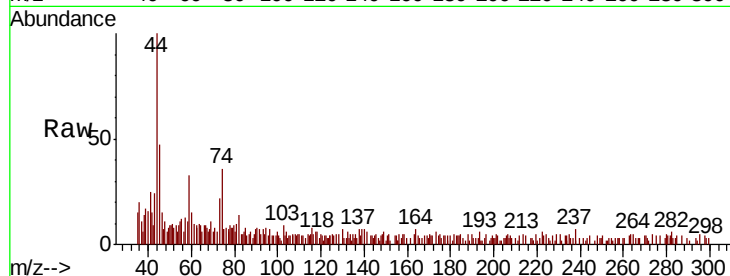
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 74 Resp: 1776

Ion Ratio Lower Upper

74 100

45 104.7 48.7 146.1



#11

Tert butyl alcohol

Concen: 2.534 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.01 min

Lab File: VX014471.D

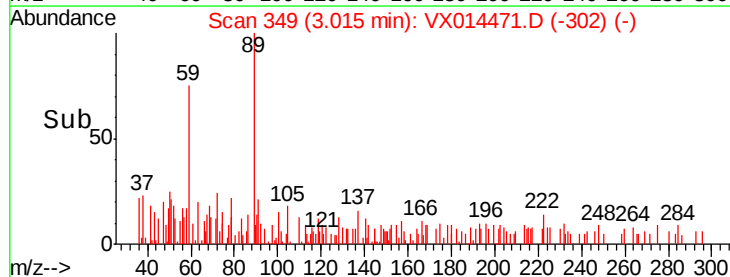
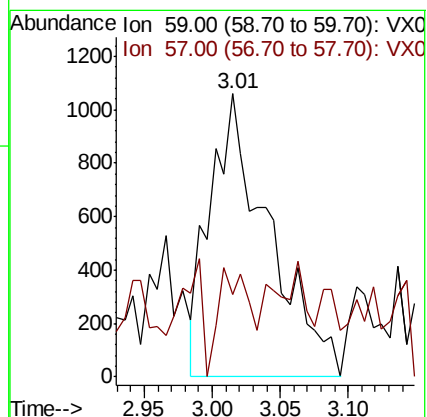
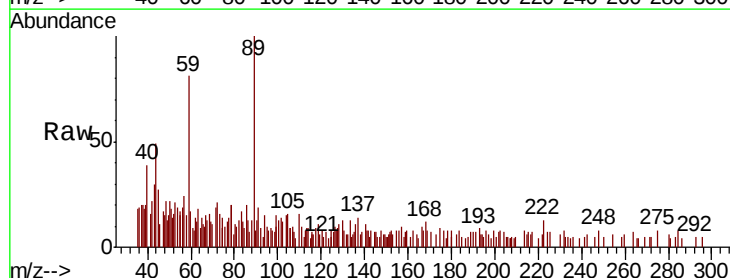
Acq: 08 Jan 2020 15:11

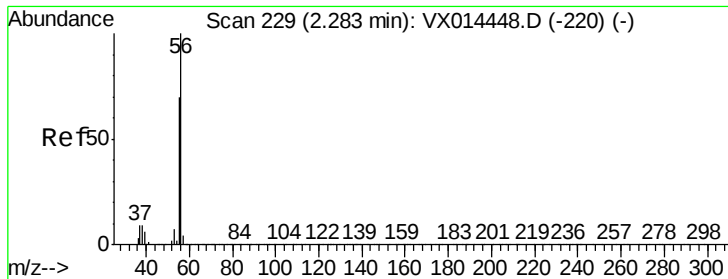
Tgt Ion: 59 Resp: 3188

Ion Ratio Lower Upper

59 100

57 20.0 8.5 12.7#

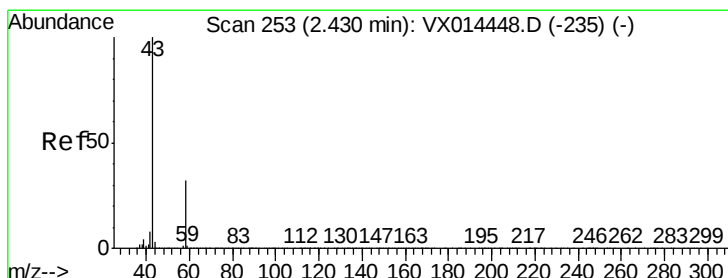
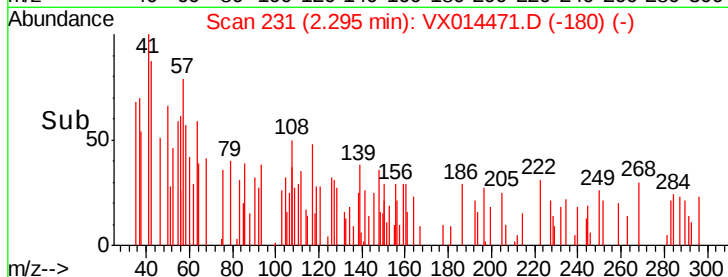
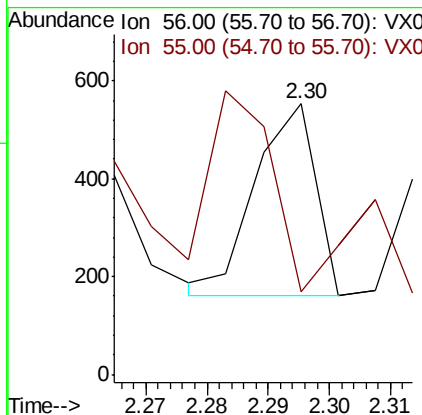
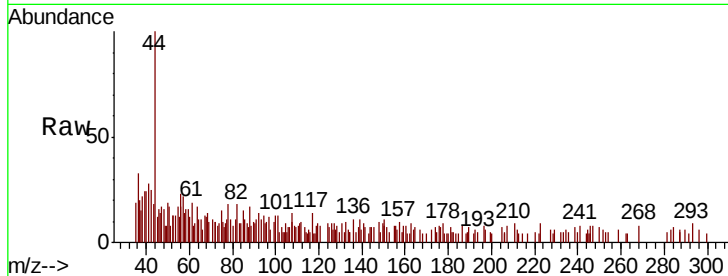




#13
Acrolein
Concen: 0.265 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

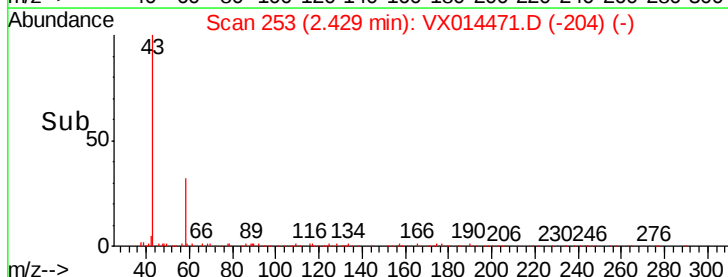
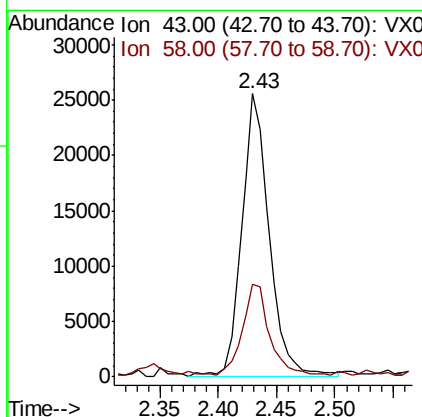
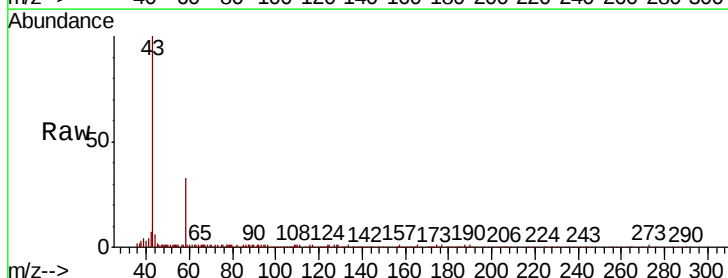
Instrument :
MSVOA_X
ClientSampleId :

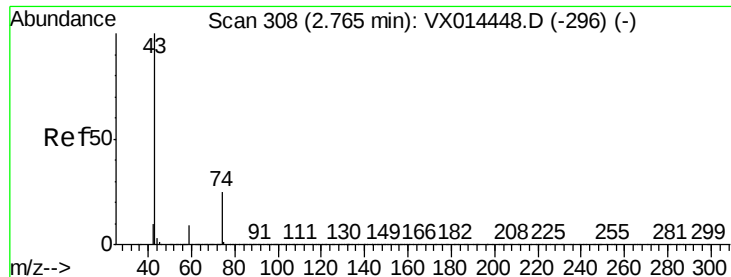
Tot Ion: 56 Resp: 267
Ion Ratio Lower Upper
56 100
55 79.4 55.0 82.6



#16
Acetone
Concen: 9.998 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

Tgt Ion: 43 Resp: 42322
Ion Ratio Lower Upper
43 100
58 30.6 25.4 38.0

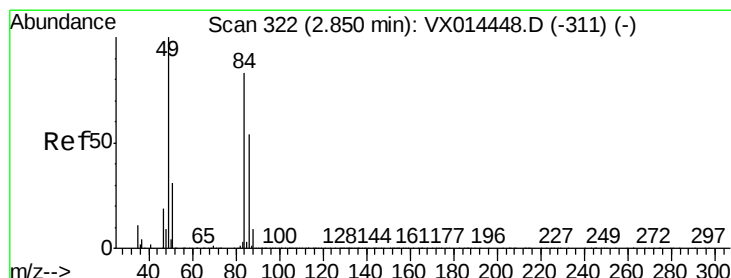
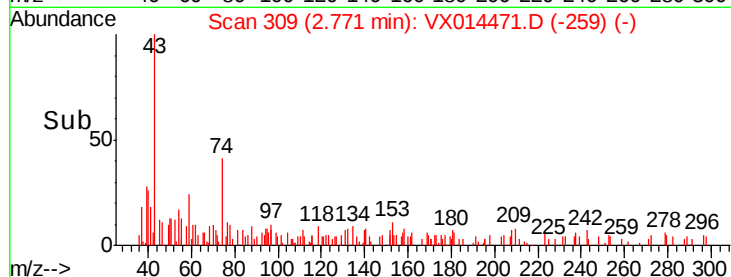
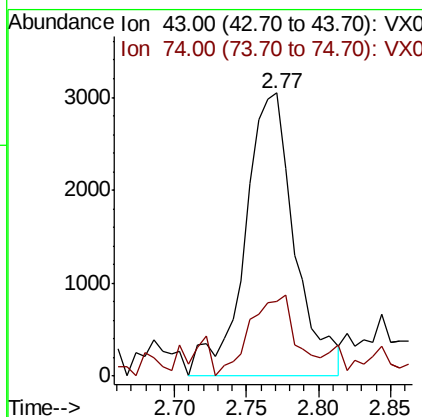
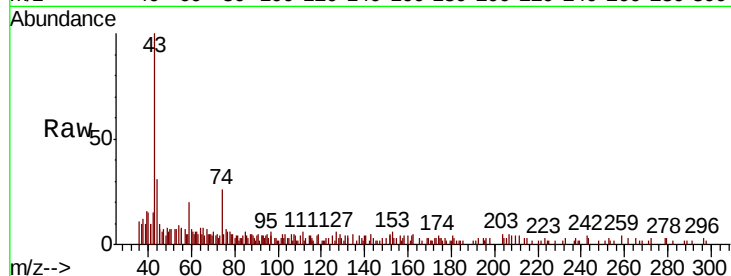




#18
Methyl Acetate
Concen: 0.847 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

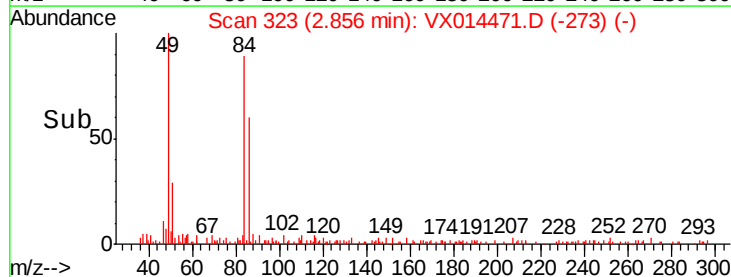
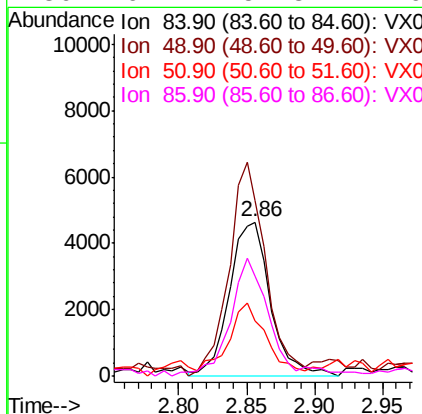
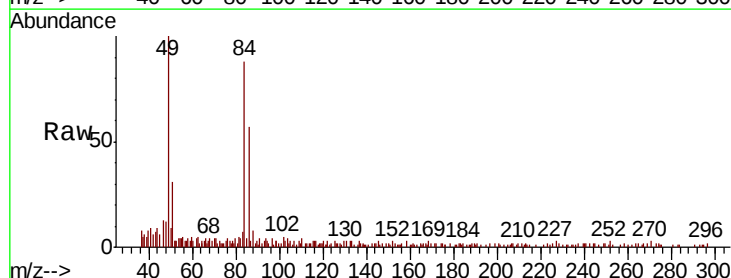
Instrument :
MSVOA_X
ClientSampleId :

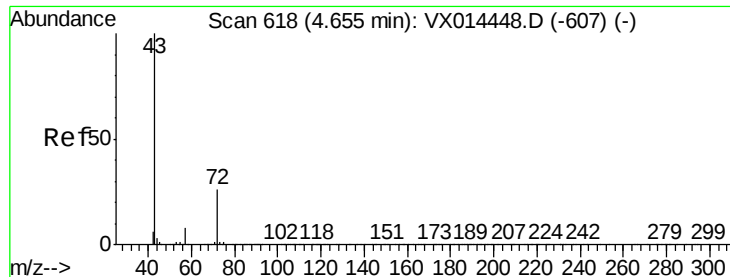
Tot Ion: 43 Resp: 7331
Ion Ratio Lower Upper
43 100
74 19.7 19.4 29.2



#20
Methylene Chloride
Concen: 1.608 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

Tgt Ion: 84 Resp: 9744
Ion Ratio Lower Upper
84 100
49 114.0 95.8 143.8
51 30.0 30.2 45.4#
86 62.1 51.8 77.6

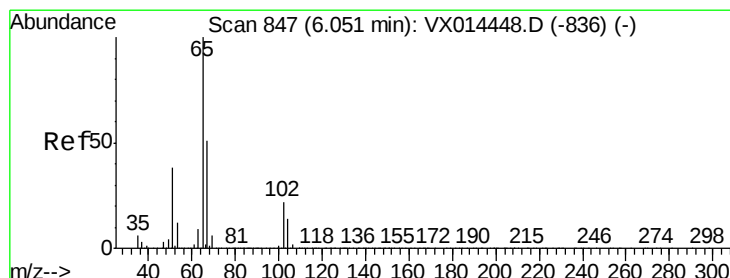
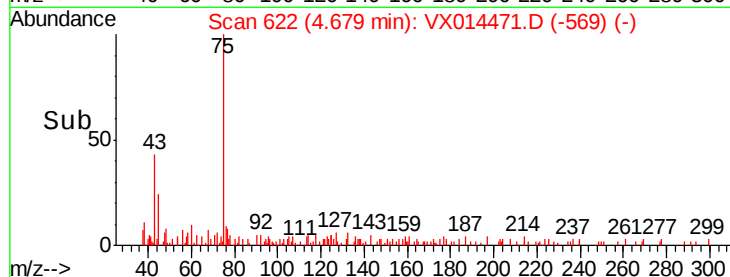
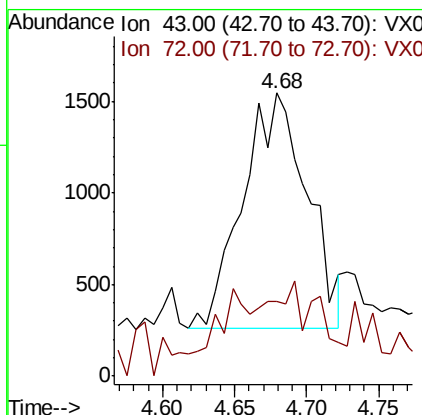
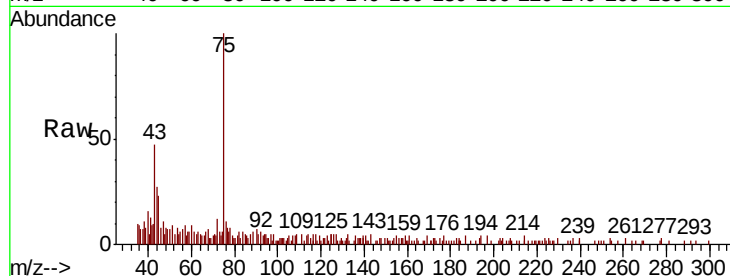




#25
2-Butanone
Concen: 0.889 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

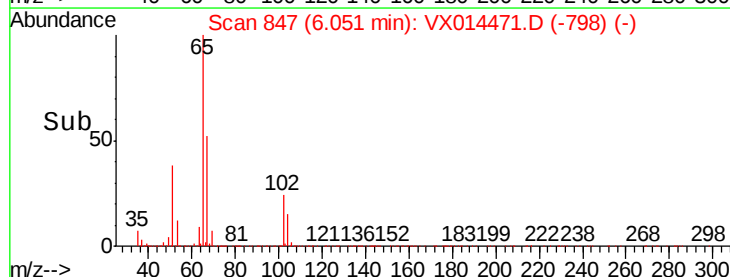
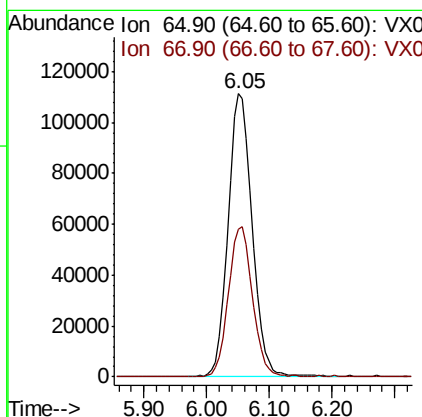
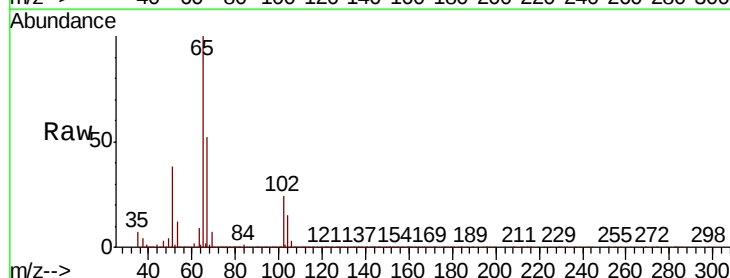
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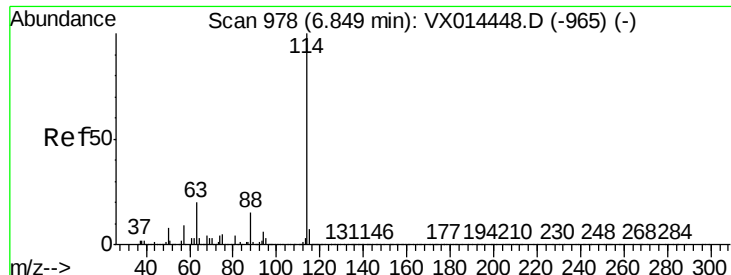
Tot Ion: 43 Resp: 4002
Ion Ratio Lower Upper
43 100
72 22.3 20.6 31.0



#33
1,2-Dichloroethane-d4
Concen: 48.847 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

Tgt Ion: 65 Resp: 294303
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

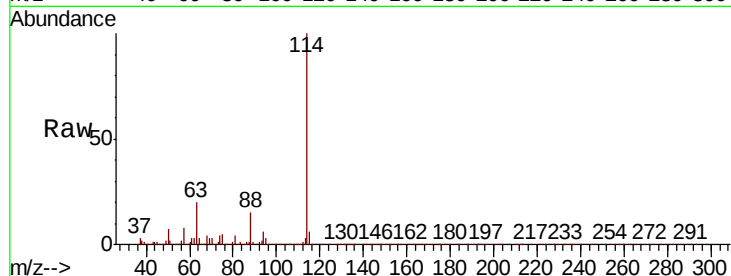
Tot Ion:114 Resp: 831780

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

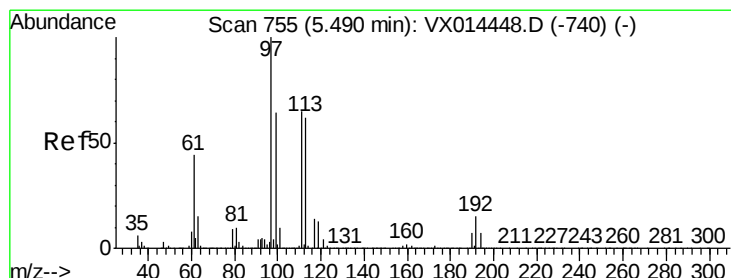
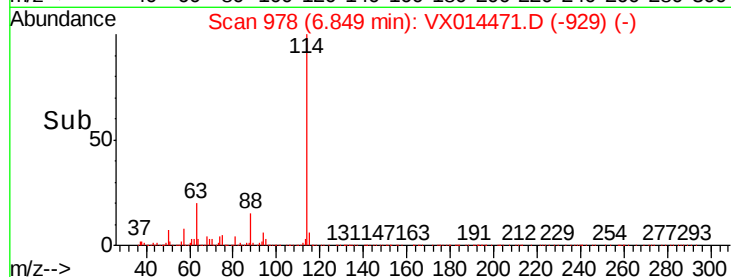
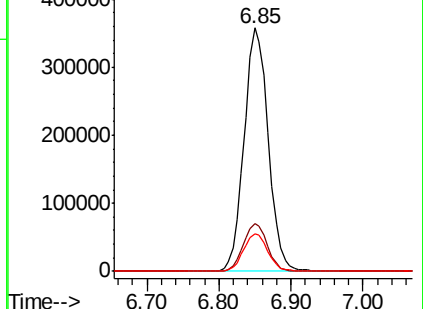
88 15.1 0.0 30.8



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: 48.006 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

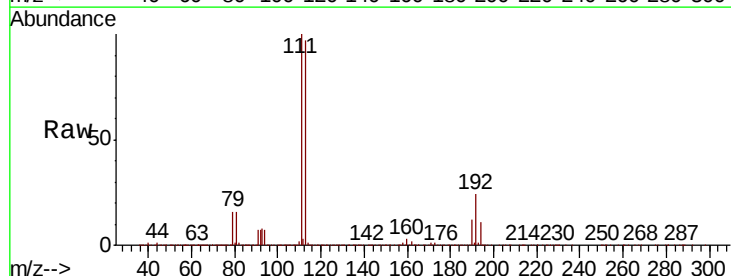
Tgt Ion:113 Resp: 241717

Ion Ratio Lower Upper

113 100

111 103.3 81.5 122.3

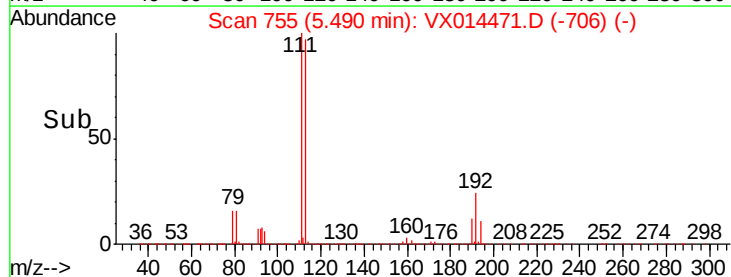
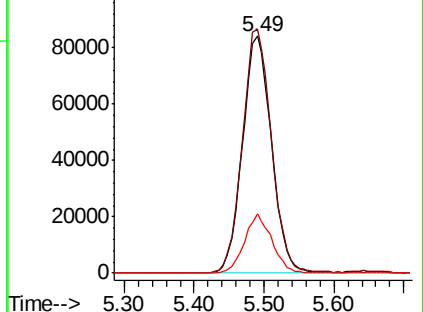
192 23.3 19.2 28.8

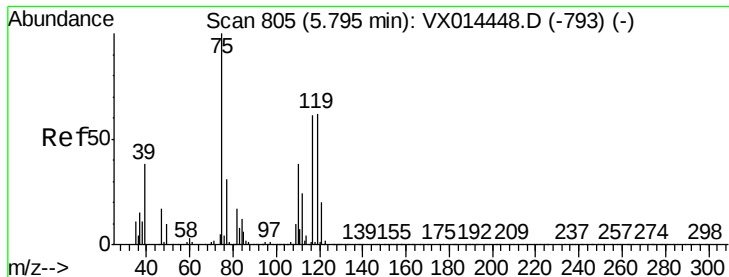


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.549 ug/l

RT: 5.65 min Scan# 782

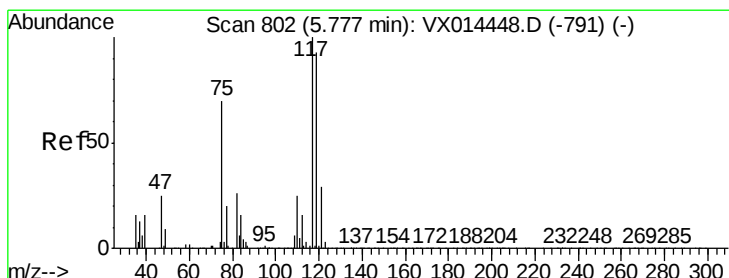
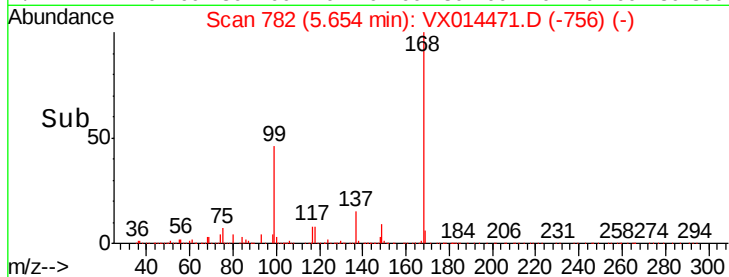
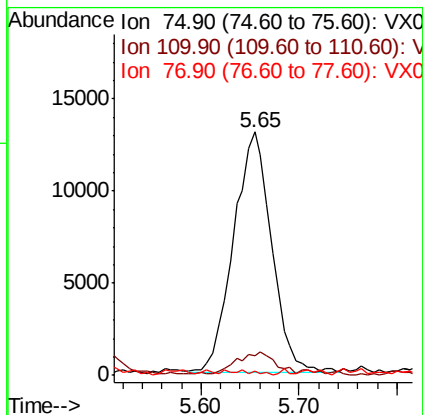
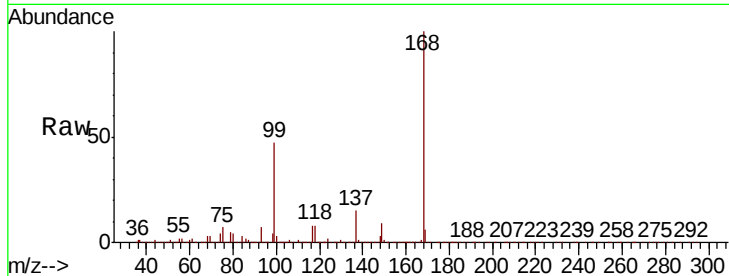
Delta R.T. -0.14 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	35583
Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.6	55.8#
77	0.9	24.5	36.7#



#38

Carbon Tetrachloride

Concen: 6.582 ug/l

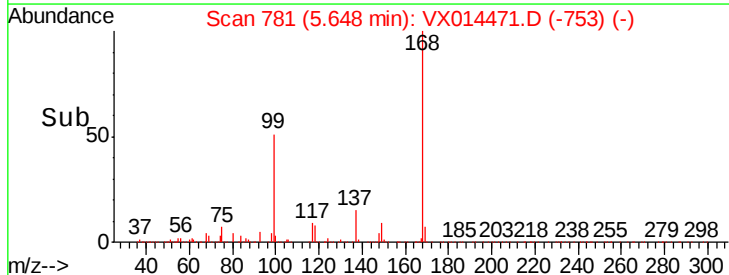
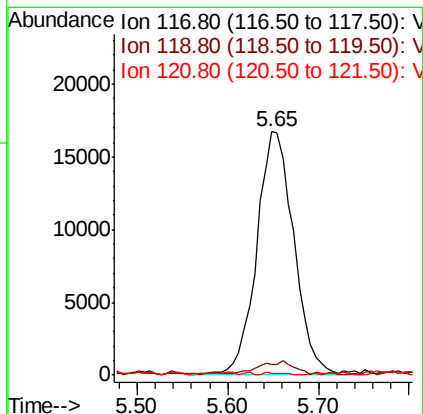
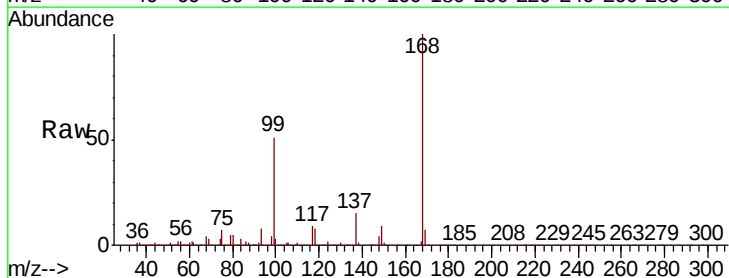
RT: 5.65 min Scan# 781

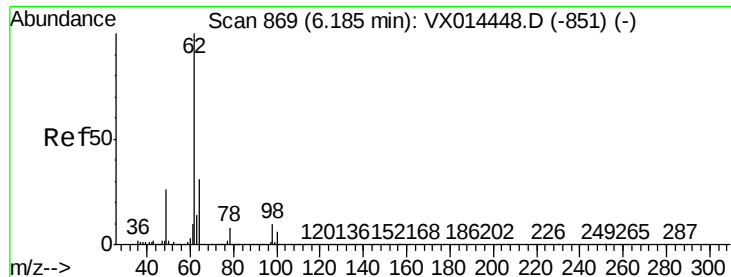
Delta R.T. -0.13 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

Tgt Ion:	117	Resp:	47381
Ion	Ratio	Lower	Upper
117	100		
119	3.7	73.8	110.8#
121	0.8	23.4	35.0#





#42

1,2-Dichloroethane

Concen: 0.216 ug/l

RT: 6.18 min Scan# 869

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

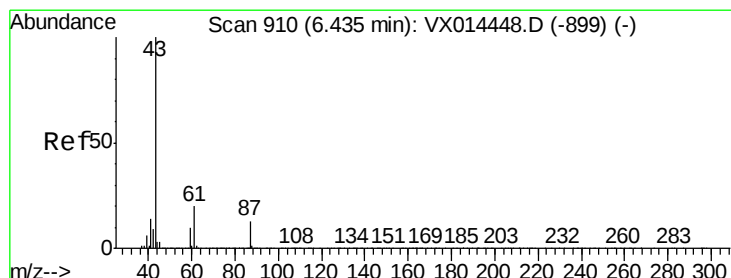
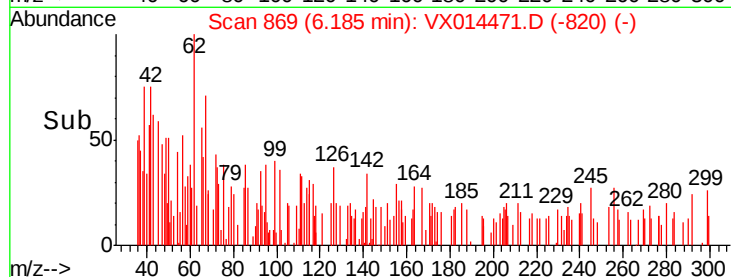
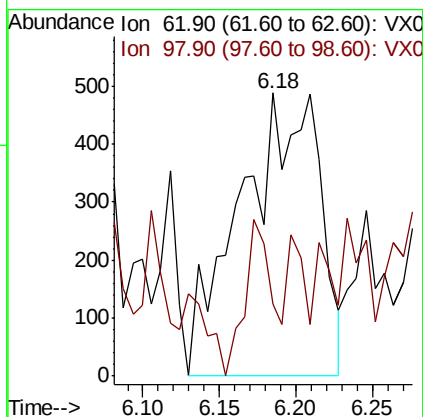
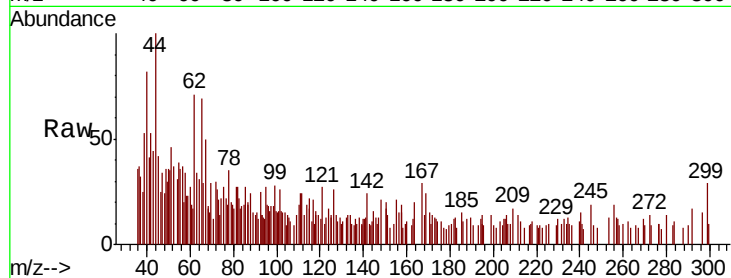
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 62 Resp: 1752

Ion Ratio Lower Upper

62 100

98 18.7 0.0 20.4



#43

Isopropyl Acetate

Concen: 9.693 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

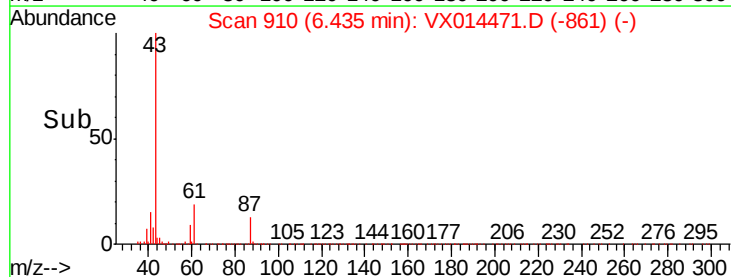
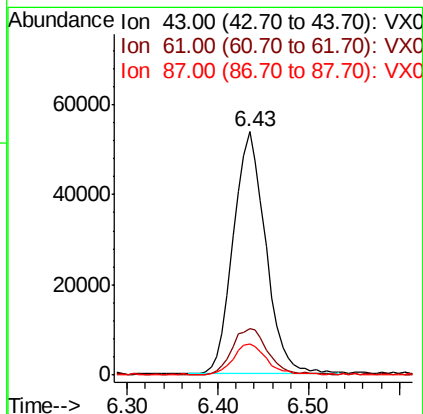
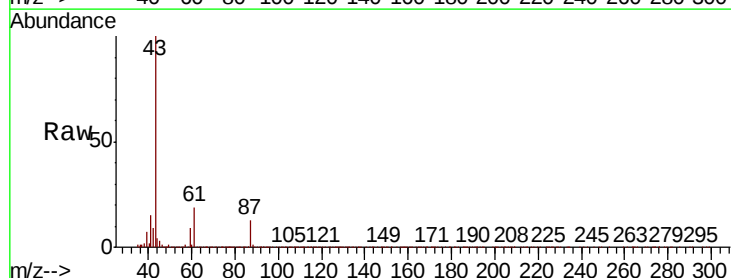
Tgt Ion: 43 Resp: 133045

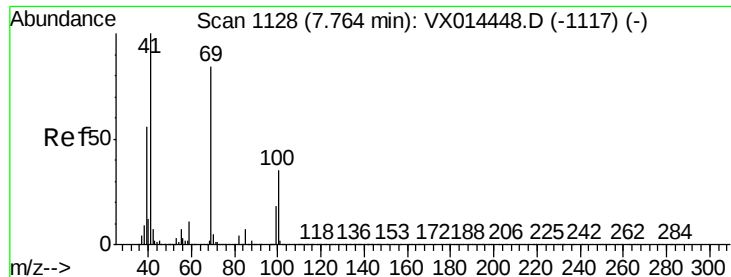
Ion Ratio Lower Upper

43 100

61 21.8 16.6 24.8

87 12.9 10.8 16.2

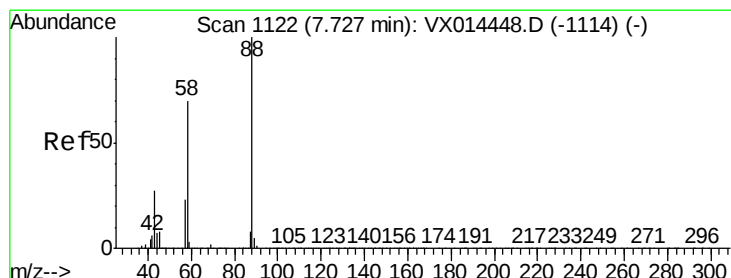
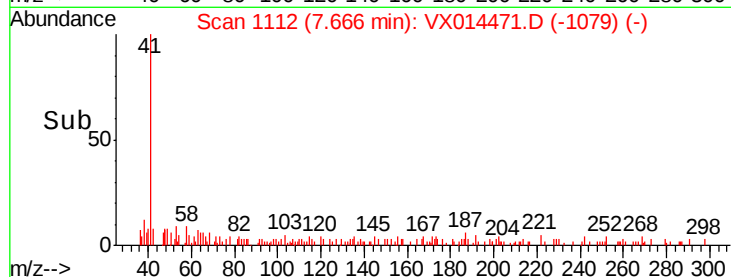
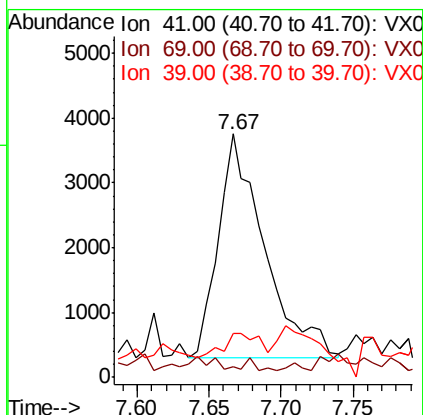
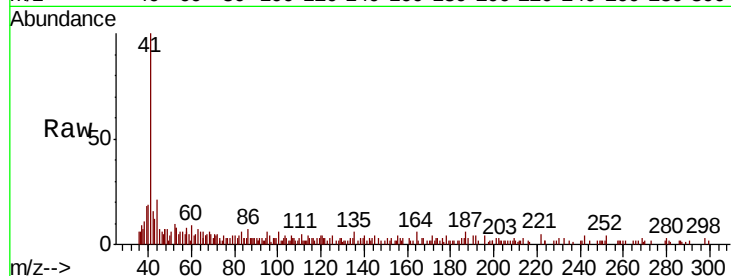




#48
Methvl methacrylate
Concen: 1.168 ug/l
RT: 7.67 min Scan# 1112
Delta R.T. -0.10 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

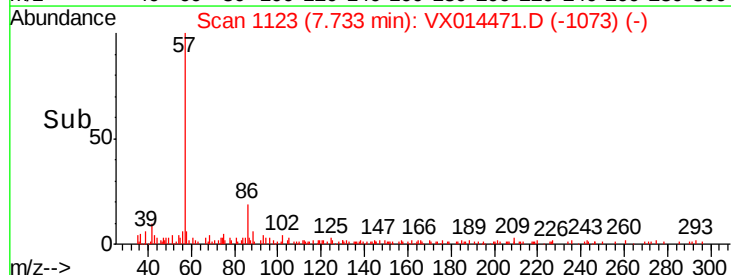
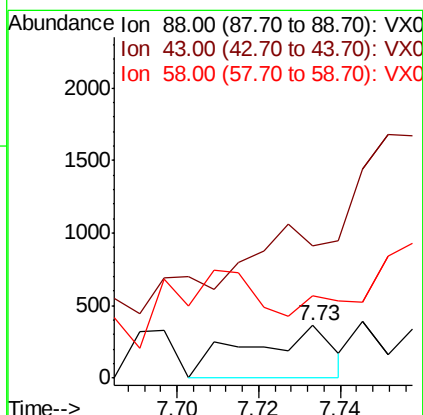
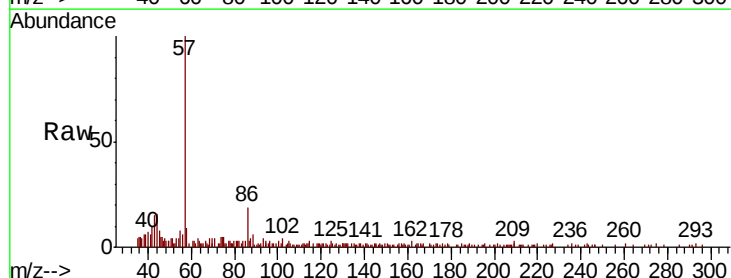
Instrument :
MSVOA_X
ClientSampled :

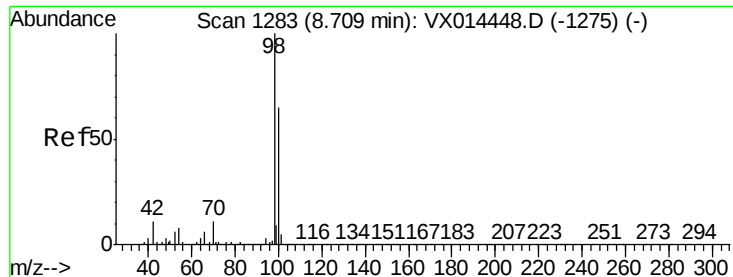
Tot Ion	Ratio	Lower	Upper
41	100		
69	1.1	65.5	98.3#
39	0.0	43.9	65.9#



#49
1,4-Dioxane
Concen: 3.683 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.01 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	0.0	57.1	85.7#





#50

Toluene-d8

Concen: 50.783 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

Instrument :

MSVOA_X

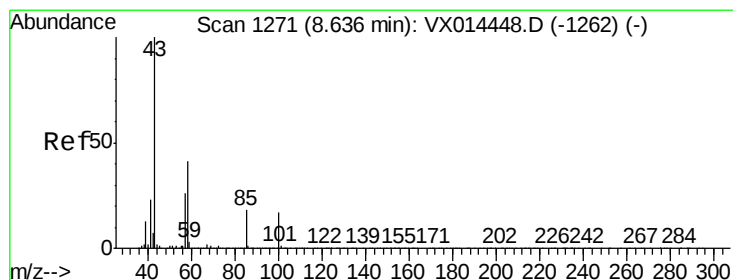
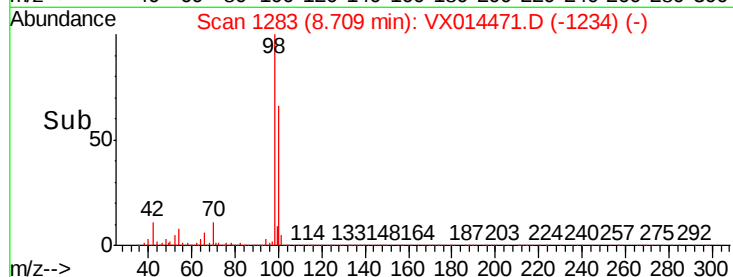
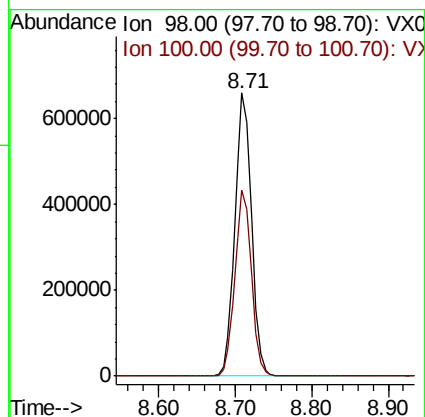
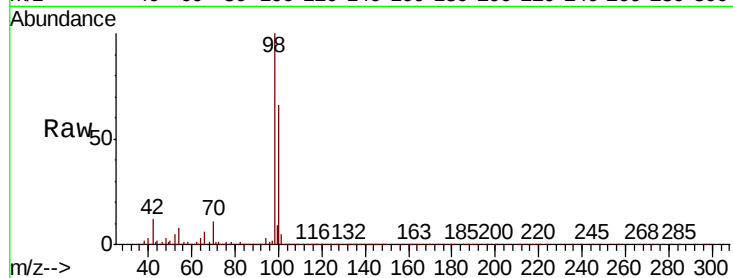
ClientSampleId :

Tot Ion: 98 Resp: 992287

Ion Ratio Lower Upper

98 100

100 65.2 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 14.944 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014471.D

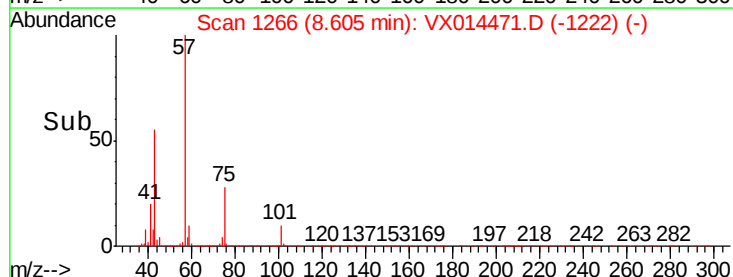
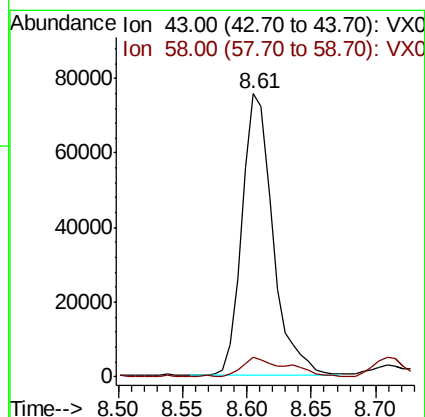
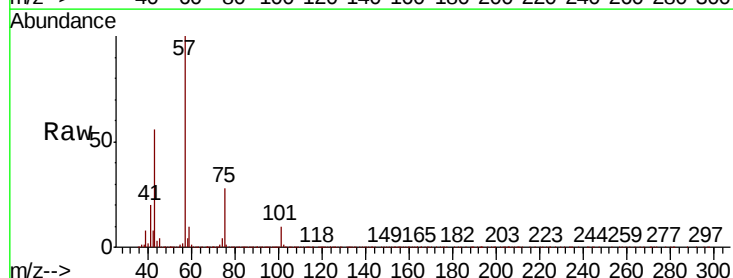
Acq: 08 Jan 2020 15:11

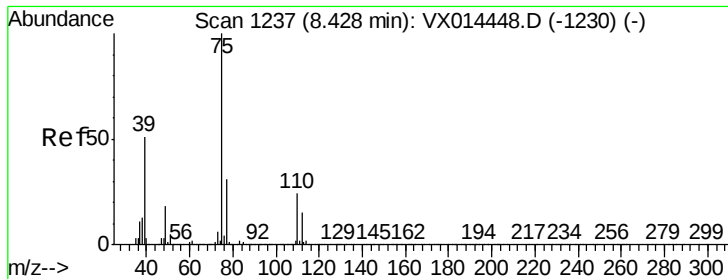
Tgt Ion: 43 Resp: 124992

Ion Ratio Lower Upper

43 100

58 9.5 32.4 48.6#



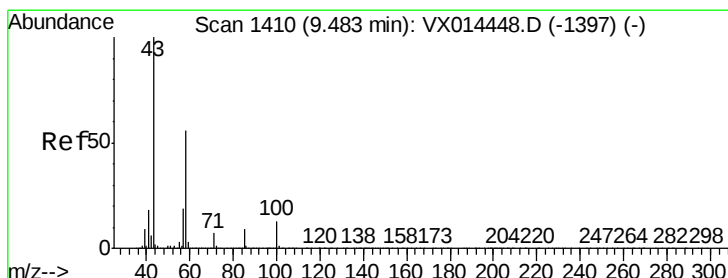
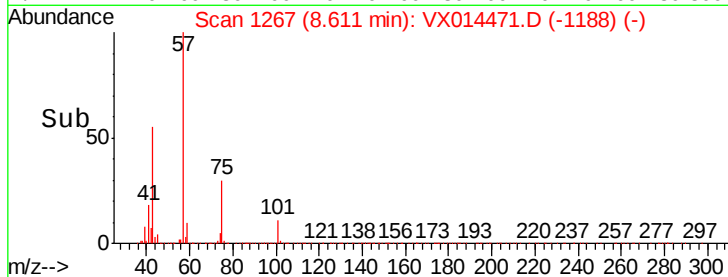
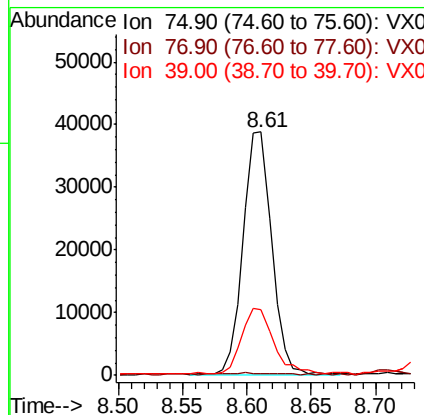
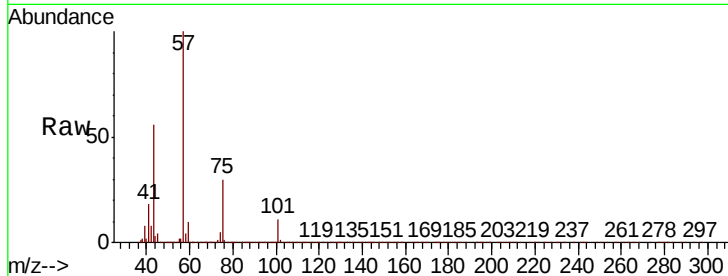


#54

cis-1,3-Dichloropropene
 Concen: 6.285 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014471.D
 Acq: 08 Jan 2020 15:11

Instrument :
 MSVOA_X
 ClientSampled :

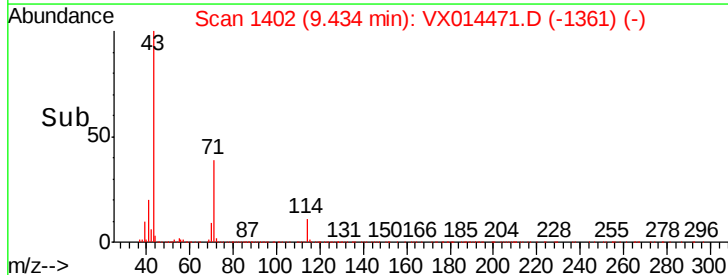
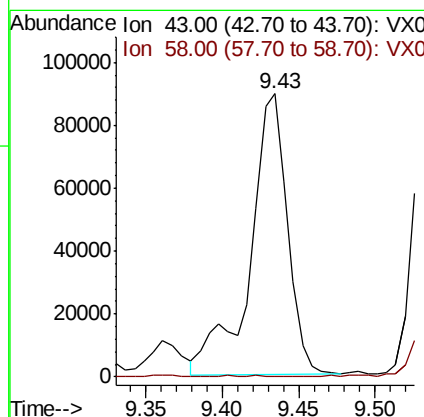
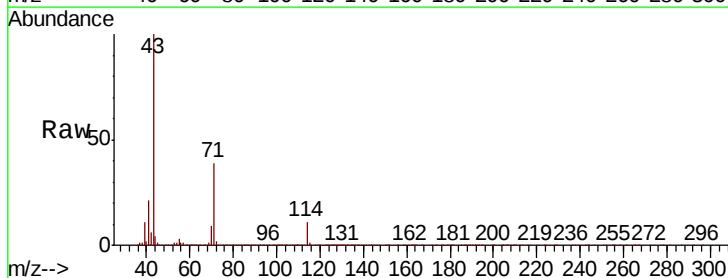
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.3	25.0	37.4#
39	26.1	40.7	61.1#

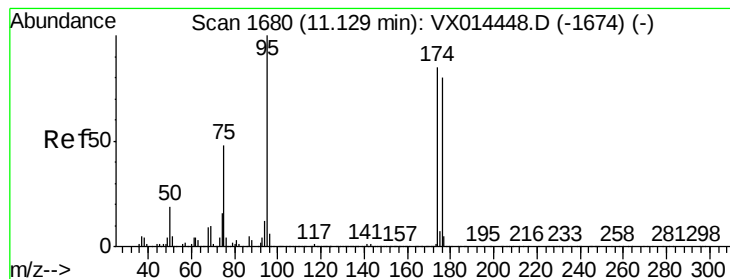


#59

2-Hexanone
 Concen: 23.010 ug/l
 RT: 9.43 min Scan# 1402
 Delta R.T. -0.05 min
 Lab File: VX014471.D
 Acq: 08 Jan 2020 15:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	83.7#





#62

4-Bromofluorobenzene

Concen: 47.482 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

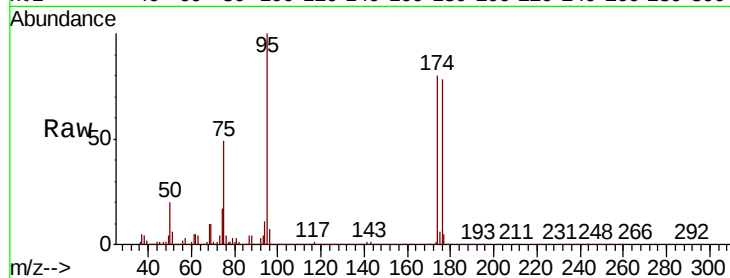
Tot Ion: 95 Resp: 340599

Ion Ratio Lower Upper

95 100

174 89.1 0.0 180.8

176 86.9 0.0 172.8



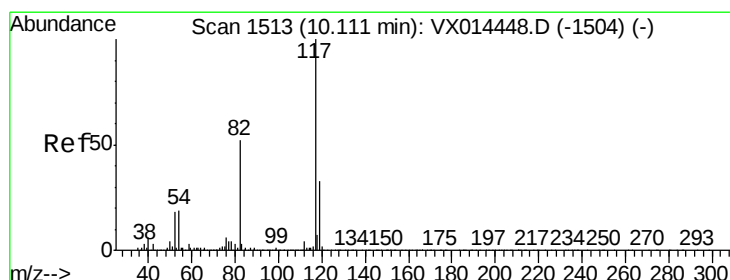
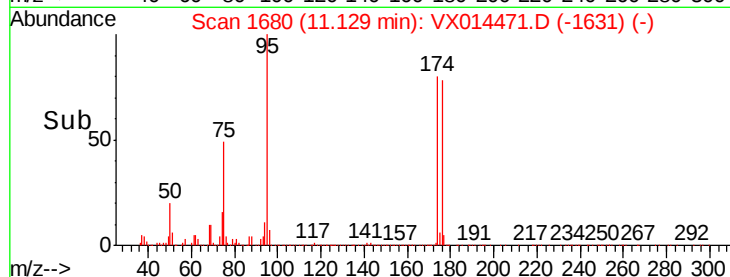
Abundance Ion 94.90 (94.60 to 95.60): VX014448.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX014448.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX014448.D (-1674) (-)

11.13

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

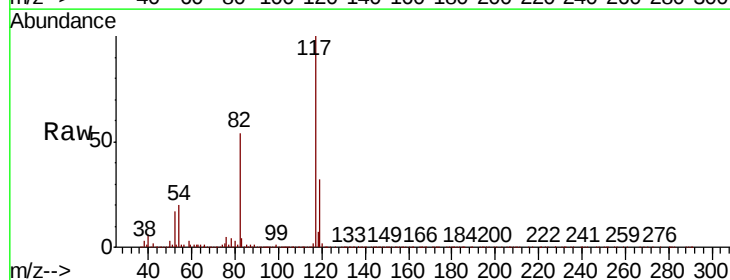
Tgt Ion: 117 Resp: 754041

Ion Ratio Lower Upper

117 100

82 53.9 41.8 62.6

119 32.4 26.2 39.4



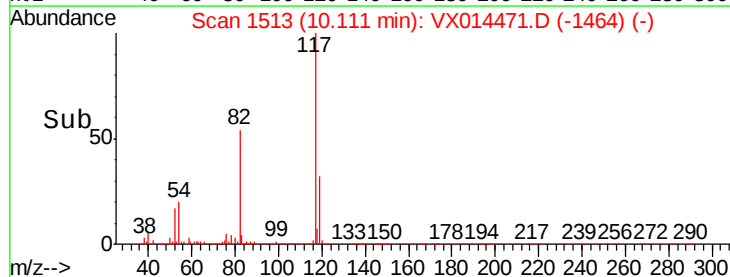
Abundance Ion 116.90 (116.60 to 117.60): VX014448.D (-1504) (-)

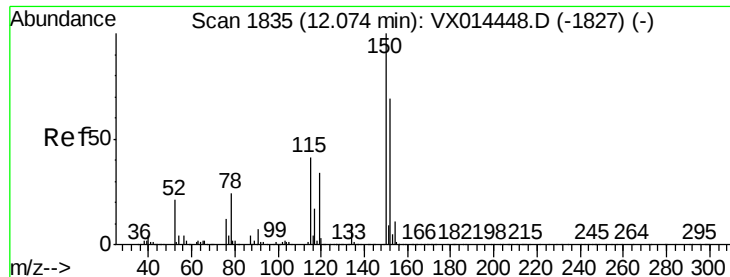
Ion 82.00 (81.70 to 82.70): VX014448.D (-1504) (-)

Ion 118.90 (118.60 to 119.60): VX014448.D (-1504) (-)

10.11

Time-->



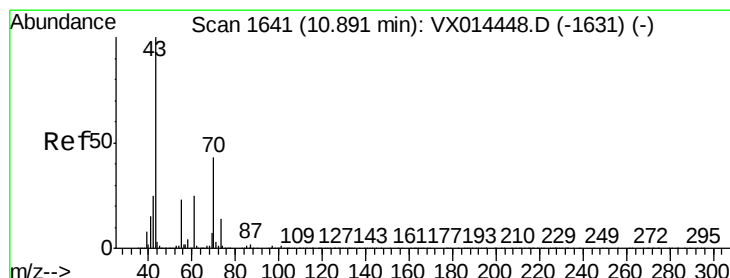
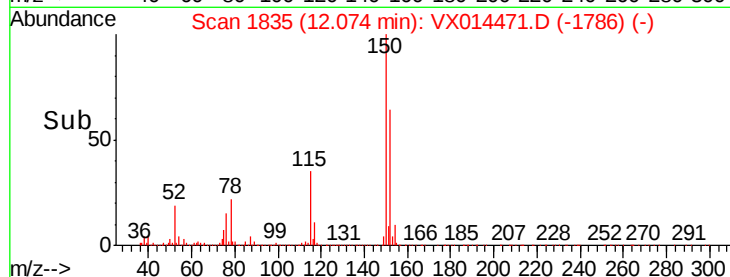
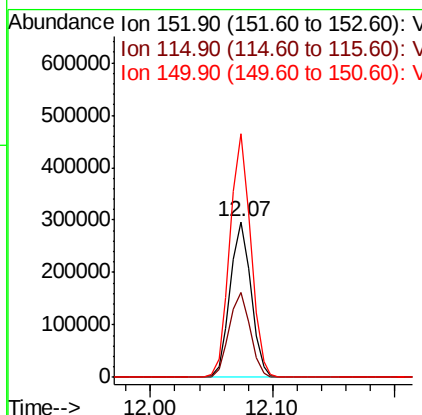
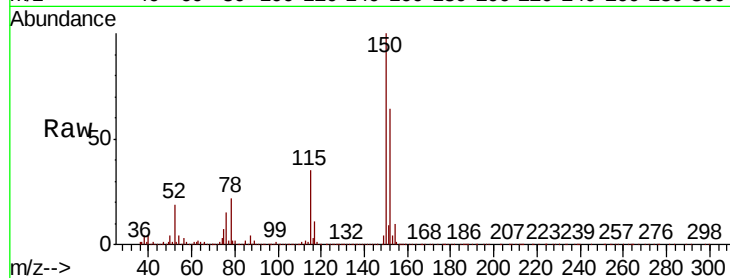


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

Instrument :
MSVOA_X
ClientSampleId :

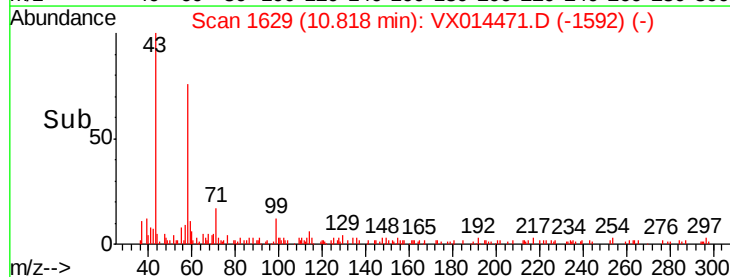
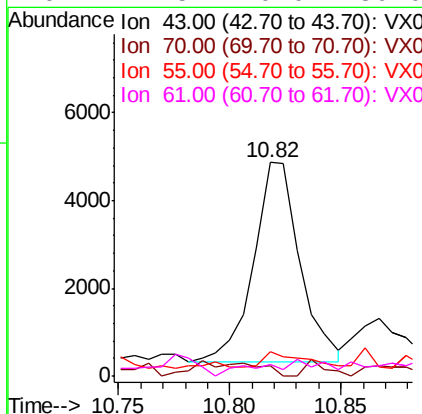
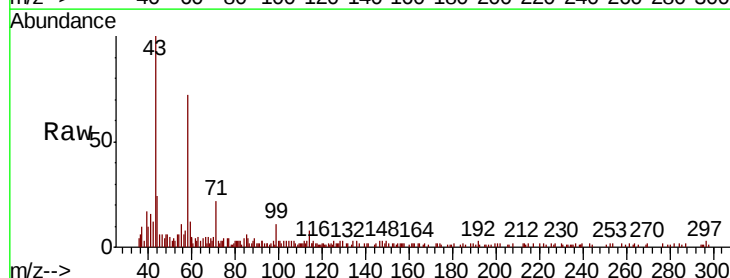
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	39.5	118.3
150	156.0	0.0	350.2

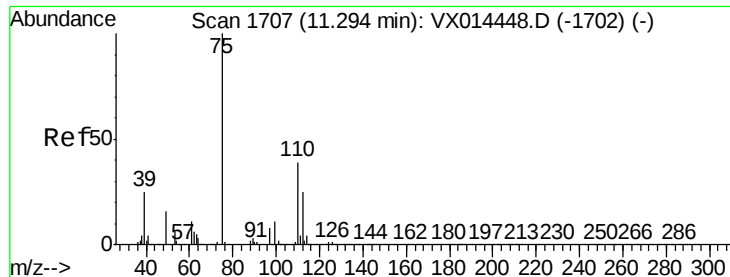


#74

N-ethyl acetate
Concen: 0.607 ug/l
RT: 10.82 min Scan# 1629
Delta R.T. -0.07 min
Lab File: VX014471.D
Acq: 08 Jan 2020 15:11

Tgt Ion	Ratio	Lower	Upper
43	100		
70	3.8	35.1	52.7#
55	11.3	19.3	28.9#
61	11.5	20.0	30.0#

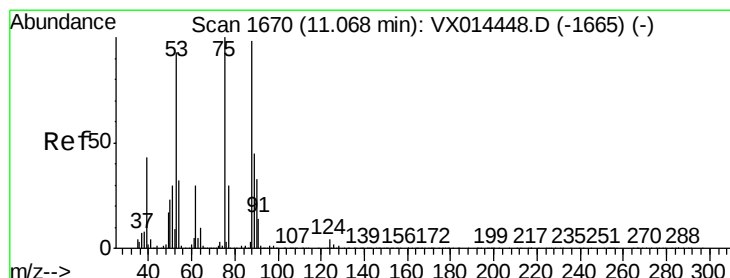
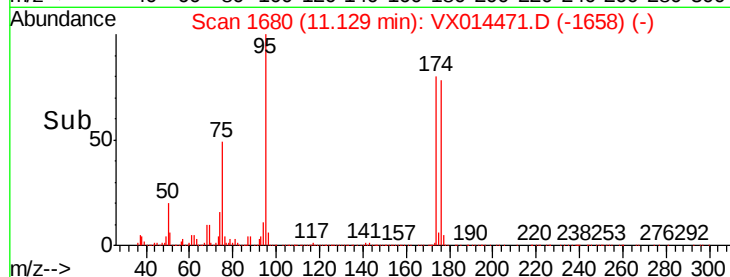
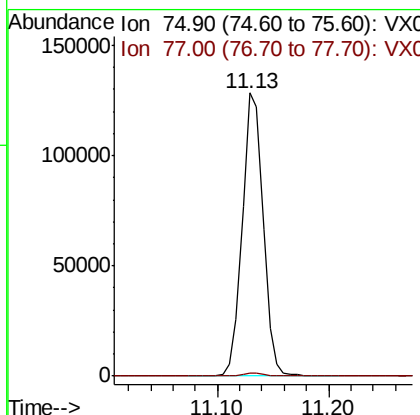
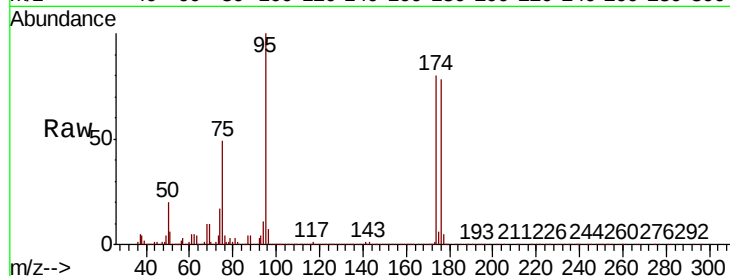




#76
 1,2,3-Trichloropropane
 Concen: 23.117 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014471.D
 Acq: 08 Jan 2020 15:11

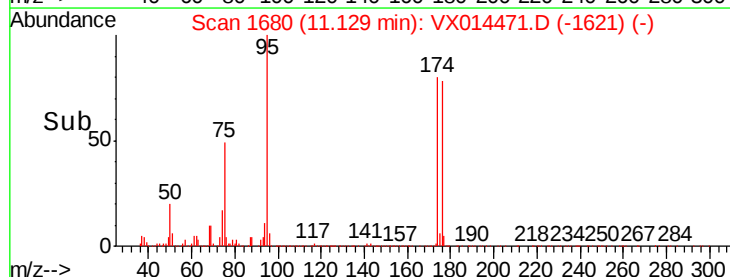
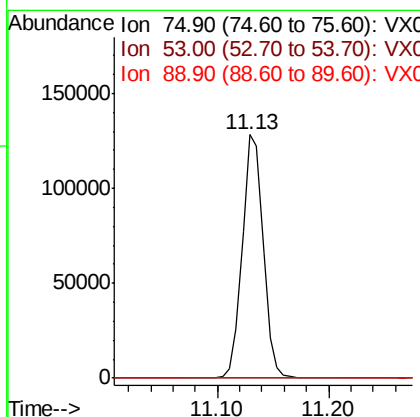
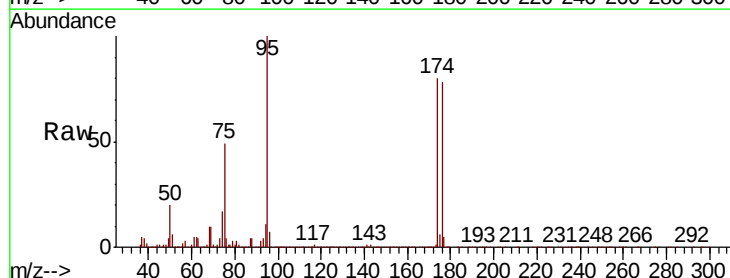
Instrument :
 MSVOA_X
 ClientSampleId :

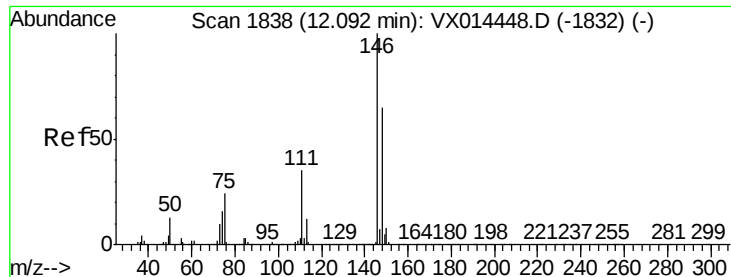
Tot Ion: 75 Resp: 166867
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.9 65.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.117 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014471.D
 Acq: 08 Jan 2020 15:11

Tgt Ion: 75 Resp: 166867
 Ion Ratio Lower Upper
 75 100
 53 0.3 74.8 112.2#
 89 0.1 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.33 min Scan# 1877

Delta R.T. 0.24 min

Lab File: VX014471.D

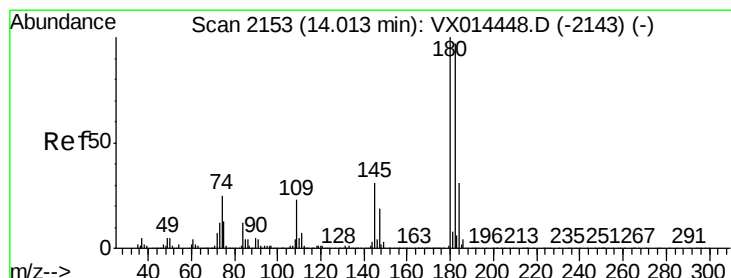
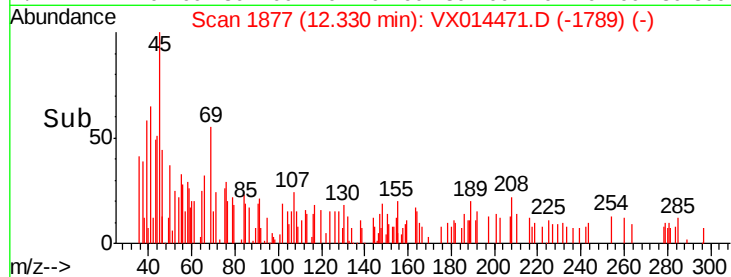
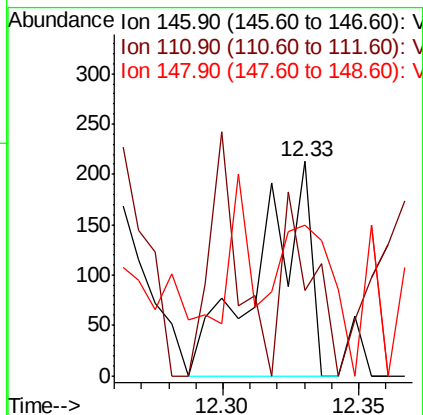
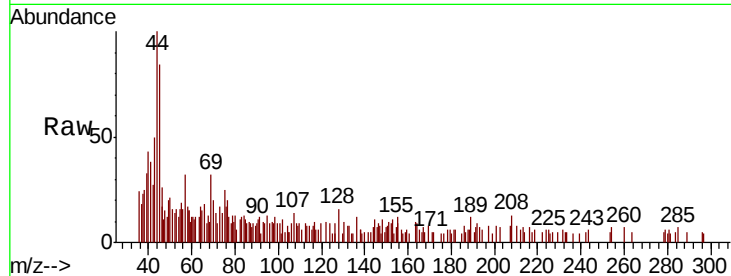
Acq: 08 Jan 2020 15:11

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	146	Resp:	275
Ion	Ratio	Lower	Upper
146	100		
111	50.2	18.1	54.1
148	68.0	32.1	96.3



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014471.D

Acq: 08 Jan 2020 15:11

Tgt Ion:	180	Resp:	402
Ion	Ratio	Lower	Upper
180	100		
182	119.2	47.9	143.6
145	95.5	14.8	44.3#

