

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021220\
 Data File : VX014923.D
 Acq On : 12 Feb 2020 14:16
 Operator : JC/SP
 Sample : L1495-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 13 03:35:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	439534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	679762	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	654251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	341222	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	251233	50.65	ug/l	0.00
Spiked Amount			Recovery	=	101.30%	
35) Dibromofluoromethane	5.49	113	211031	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	8.71	98	818099	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
62) 4-Bromofluorobenzene	11.13	95	303768	52.86	ug/l	0.00
Spiked Amount			Recovery	=	105.72%	

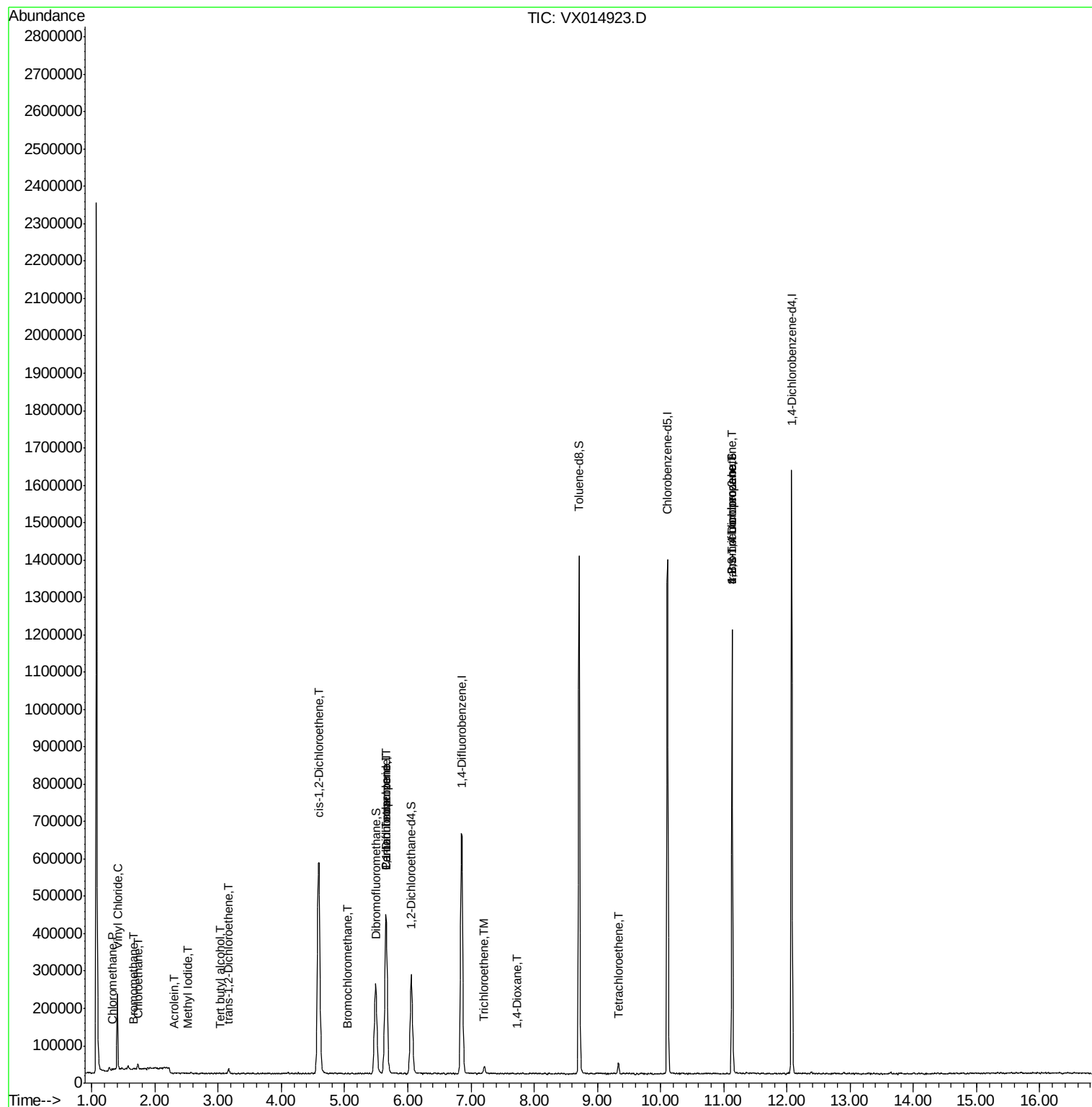
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1105	0.234	ug/l	94
4) Vinyl Chloride	1.41	62	130786	25.726	ug/l	95
5) Bromomethane	1.65	94	1278	0.388	ug/l	92
6) Chloroethane	1.73	64	7384	2.270	ug/l	99
10) Methyl Iodide	2.52	142	1056	4.578	ug/l #	90
11) Tert butyl alcohol	3.02	59	521	0.595	ug/l #	1
13) Acrolein	2.30	56	410	0.614	ug/l #	63
16) Acetone	2.43	43	1824	Below Cal	#	62
21) trans-1,2-Dichloroethene	3.17	96	5721	1.287	ug/l	93
27) cis-1,2-Dichloroethene	4.59	96	374908	75.446	ug/l	89
28) Bromochloromethane	5.04	49	817	0.274	ug/l #	54
36) 1,1-Dichloropropene	5.65	75	28997	4.769	ug/l #	42
38) Carbon Tetrachloride	5.65	117	38750	6.539	ug/l #	17
44) Trichloroethene	7.21	130	9026	1.711	ug/l	82
49) 1,4-Dioxane	7.73	88	428	4.446	ug/l #	18
64) Tetrachloroethene	9.33	164	6544	1.070	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	148473	24.062	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	148473	61.592	ug/l #	12

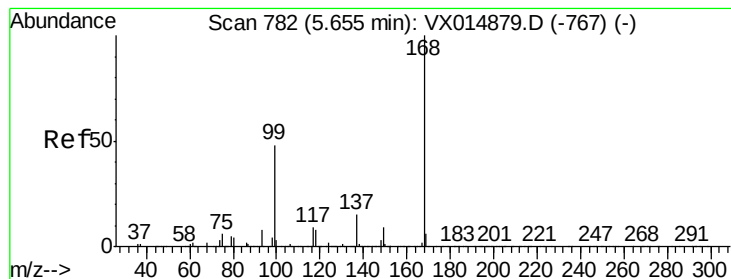
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

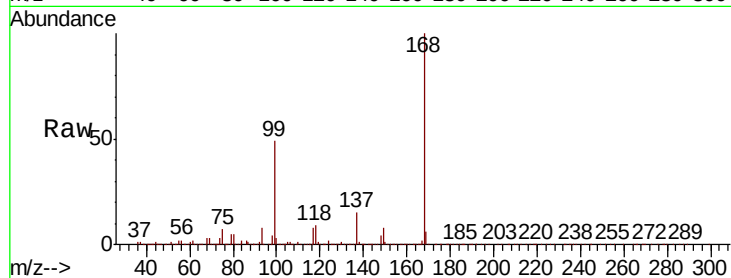
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 439534

Ion Ratio Lower Upper

168 100

99 48.6 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

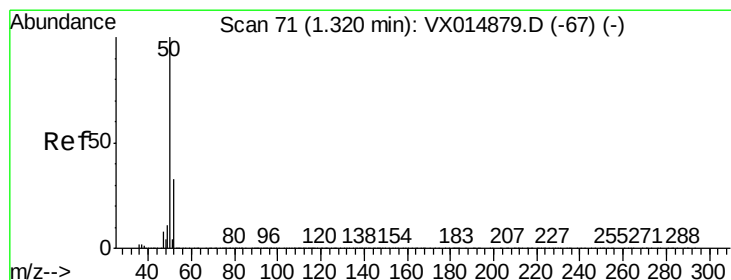
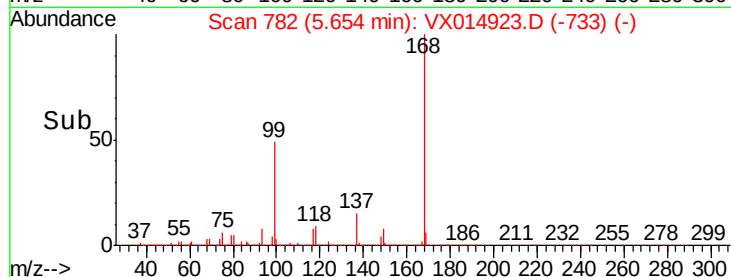
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014923.D

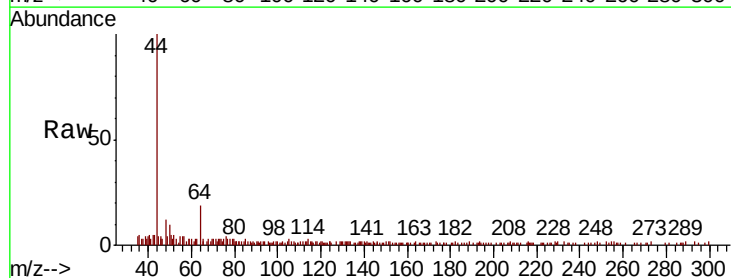
Acq: 12 Feb 2020 14:16

Tgt Ion: 50 Resp: 1105

Ion Ratio Lower Upper

50 100

52 36.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

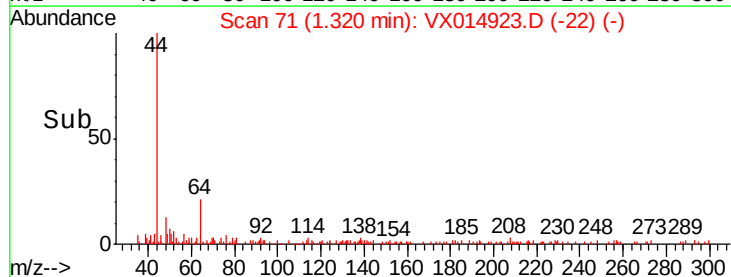
600

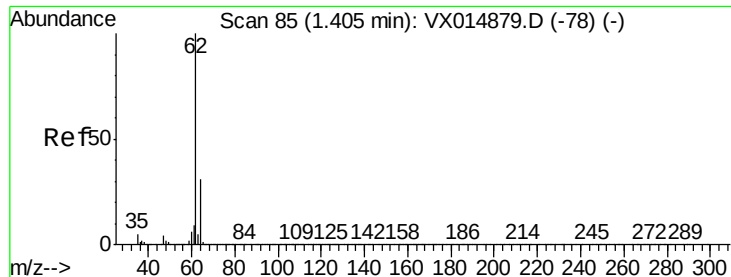
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 25.726 ug/l

RT: 1.41 min Scan# 85

Delta R.T. -0.00 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

Instrument :

MSVOA_X

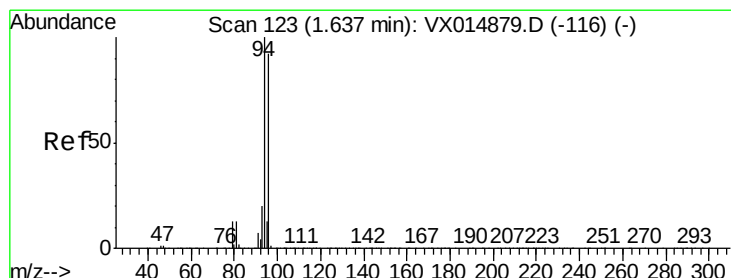
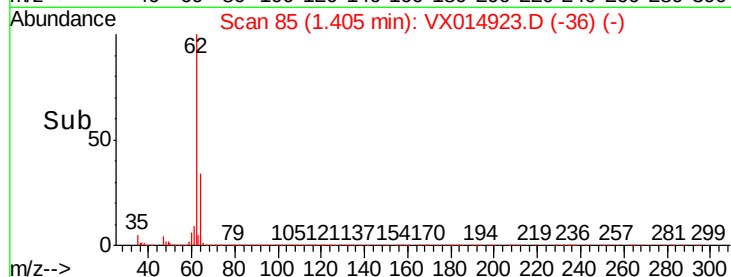
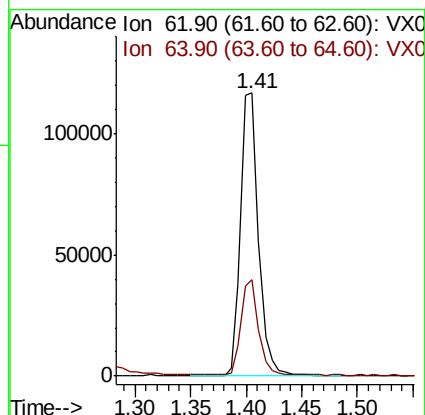
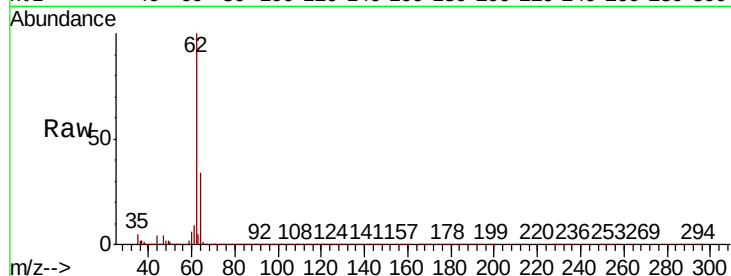
ClientSampled :

Tot Ion: 62 Resp: 130786

Ion Ratio Lower Upper

62 100

64 33.7 24.8 37.2



#5

Bromomethane

Concen: 0.388 ug/l

RT: 1.65 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014923.D

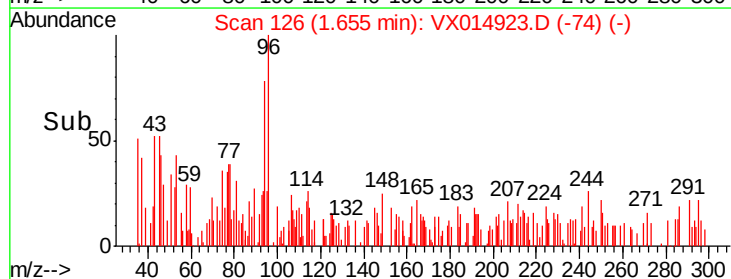
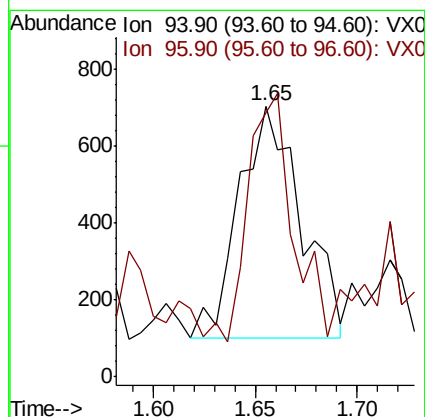
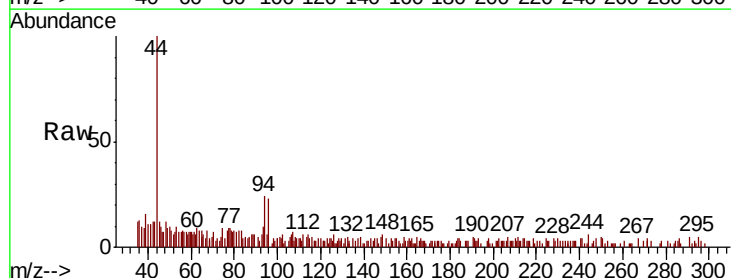
Acq: 12 Feb 2020 14:16

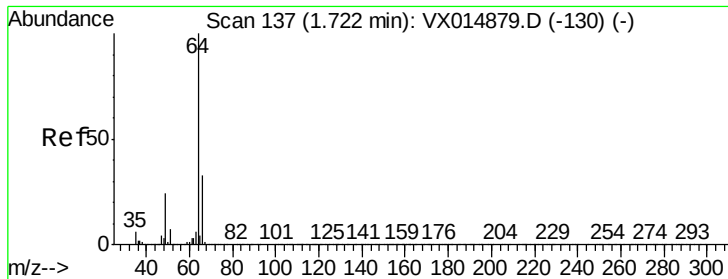
Tgt Ion: 94 Resp: 1278

Ion Ratio Lower Upper

94 100

96 84.6 73.7 110.5





#6

Chloroethane

Concen: 2.270 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.01 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

Instrument :

MSVOA_X

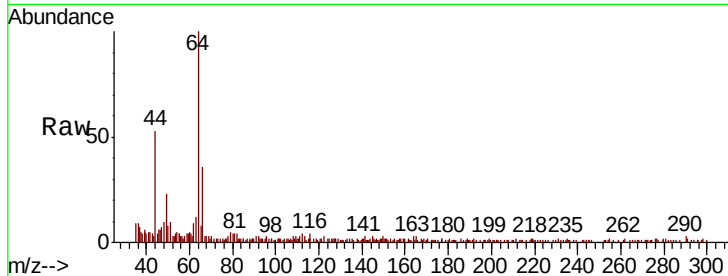
ClientSampleId :

Tot Ion: 64 Resp: 7384

Ion Ratio Lower Upper

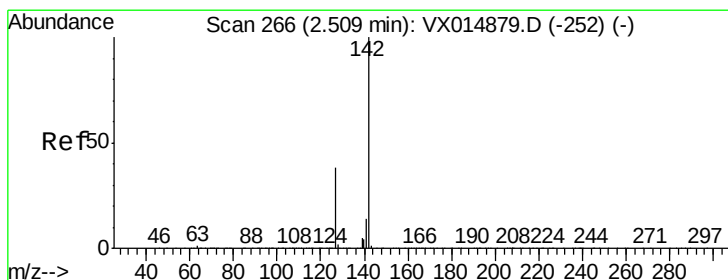
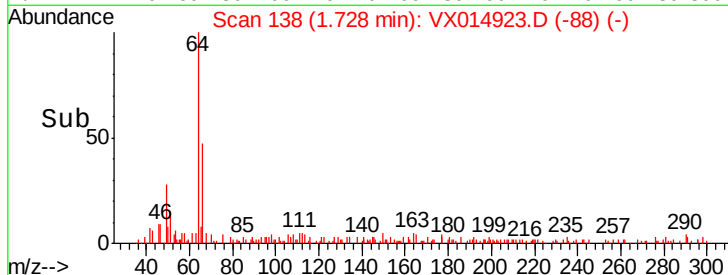
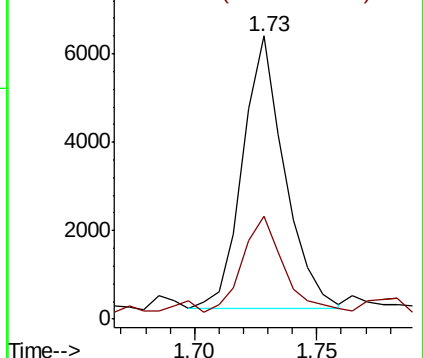
64 100

66 33.5 26.2 39.4



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.578 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

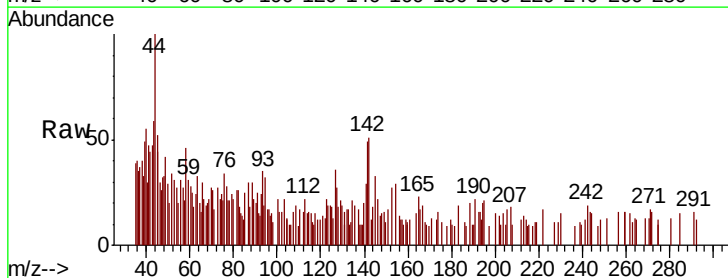
Tgt Ion: 142 Resp: 1056

Ion Ratio Lower Upper

142 100

127 38.3 31.1 46.7

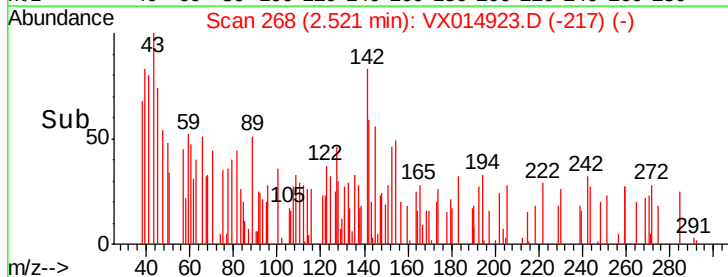
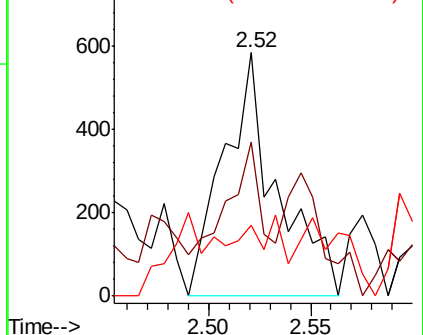
141 0.0 11.3 16.9#

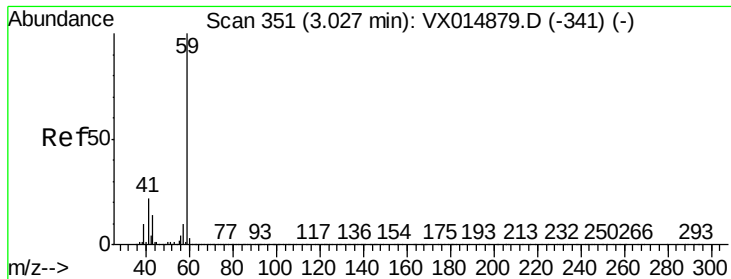


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



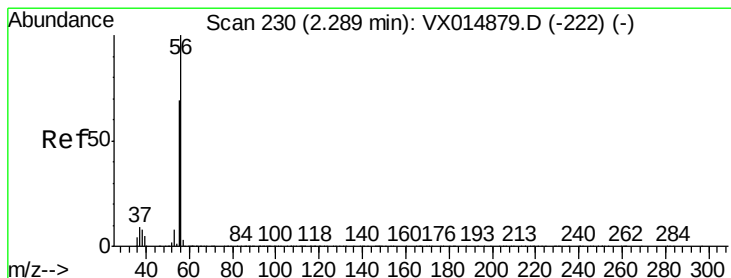
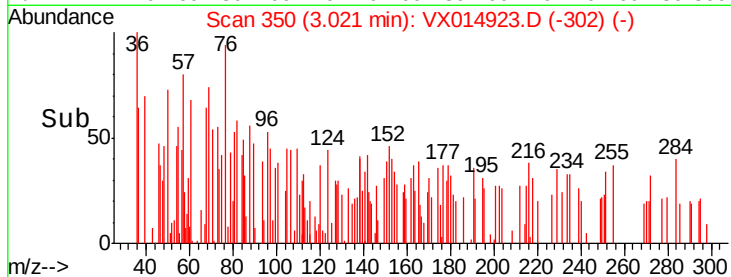
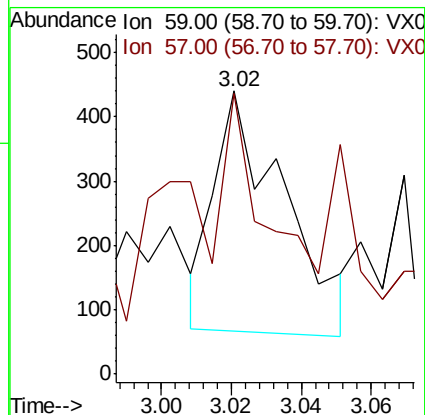
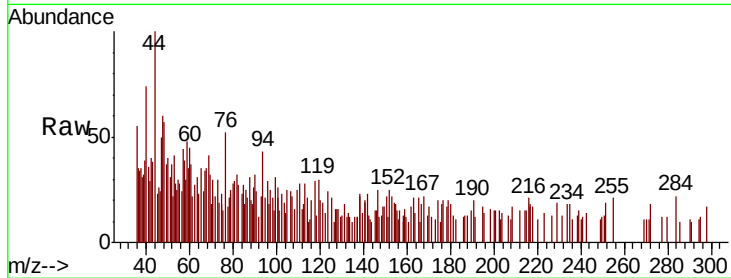


#11

Tert butyl alcohol
Concen: 0.595 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Instrument :
MSVOA_X
ClientSampled :

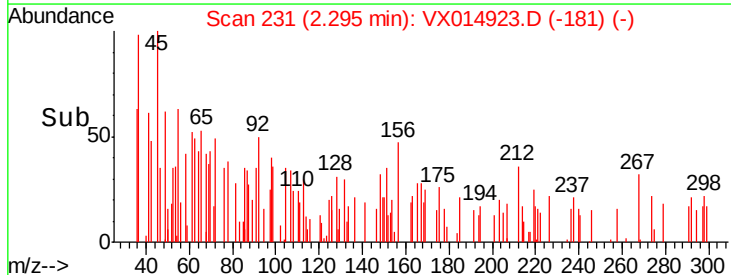
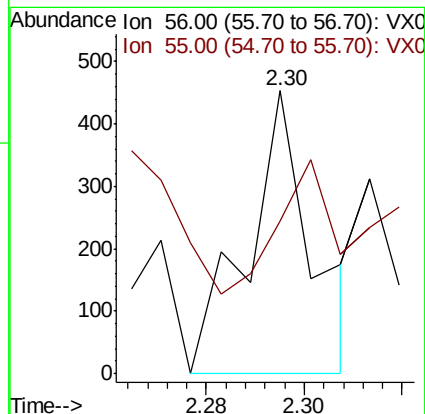
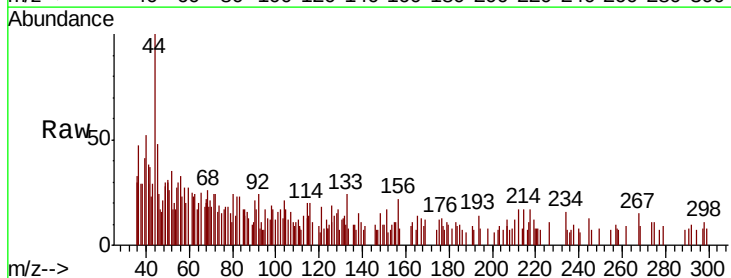
Tot Ion: 59 Resp: 521
Ion Ratio Lower Upper
59 100
57 64.9 8.2 12.4#

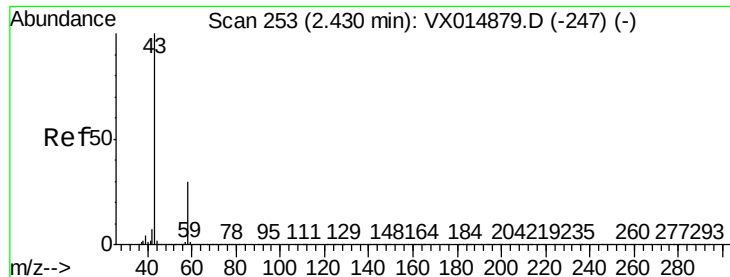


#13

Acrolein
Concen: 0.614 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Tgt Ion: 56 Resp: 410
Ion Ratio Lower Upper
56 100
55 38.5 55.0 82.4#





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

Instrument :

MSVOA_X

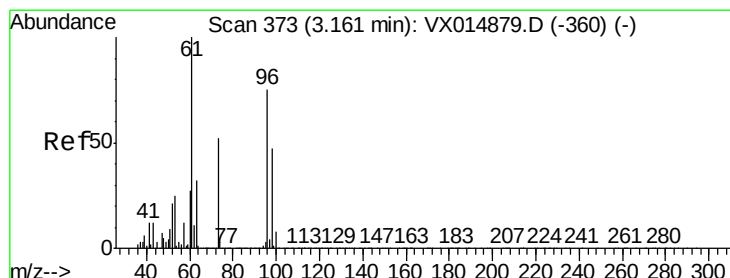
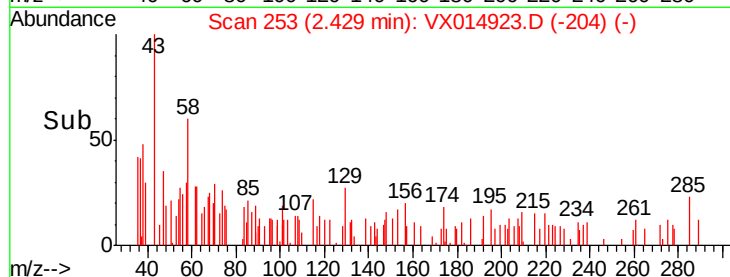
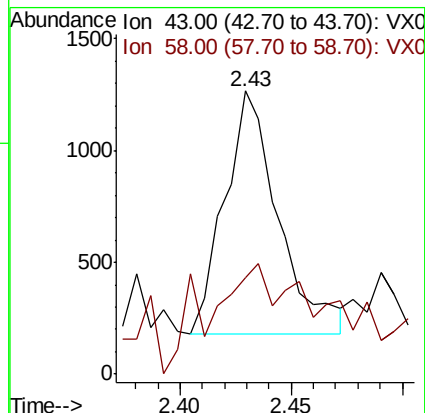
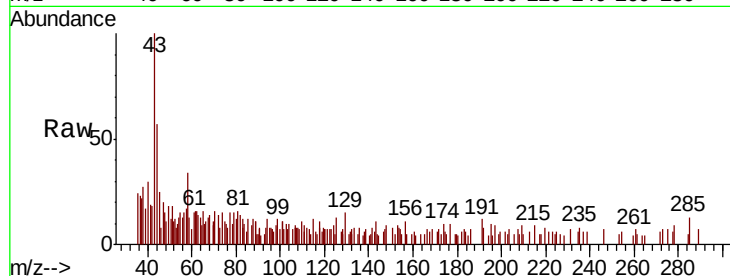
ClientSampled :

Tot Ion: 43 Resp: 1824

Ion Ratio Lower Upper

43 100

58 9.2 24.1 36.1#



#21

trans-1,2-Dichloroethene

Concen: 1.287 ug/l

RT: 3.17 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

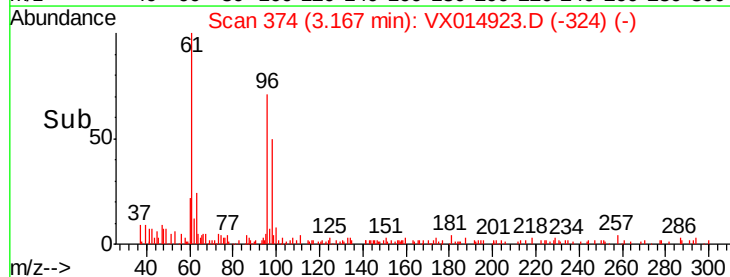
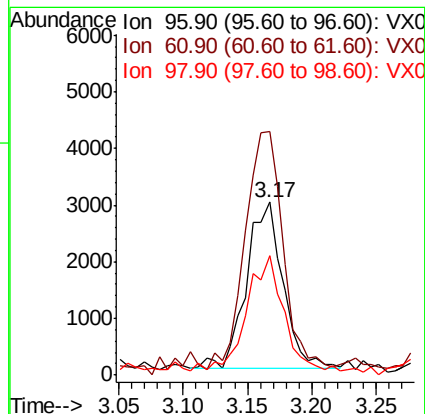
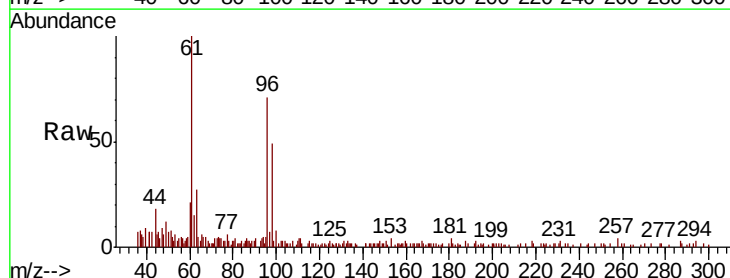
Tgt Ion: 96 Resp: 5721

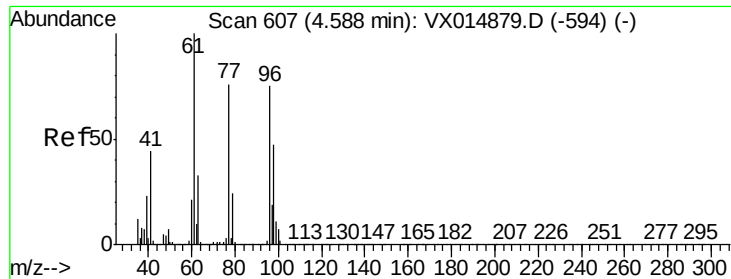
Ion Ratio Lower Upper

96 100

61 140.8 106.9 160.3

98 69.6 50.7 76.1



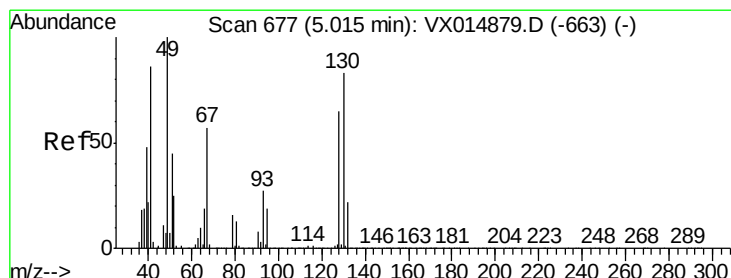
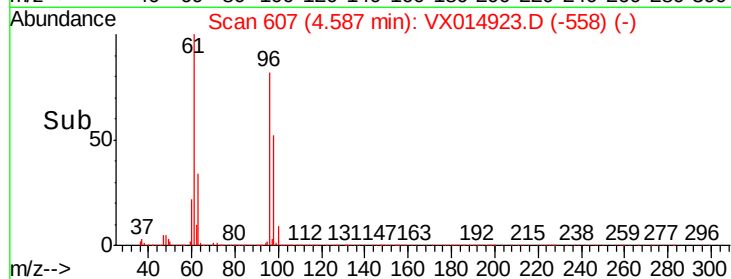
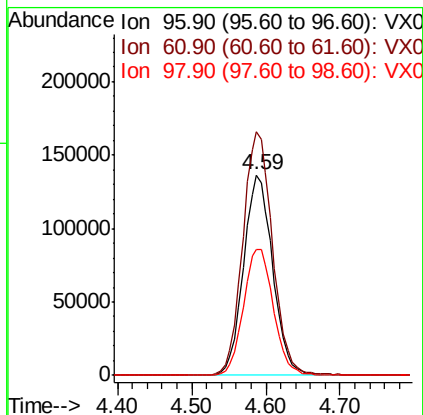
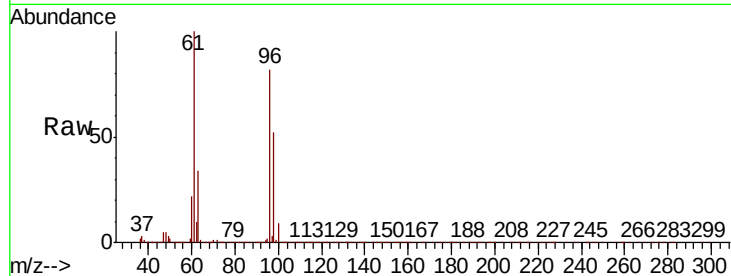


#27

cis-1,2-Dichloroethene
Concen: 75.446 ug/l
RT: 4.59 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Instrument :
MSVOA_X
ClientSampleId :

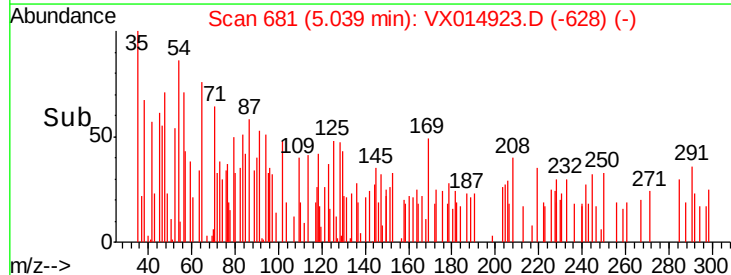
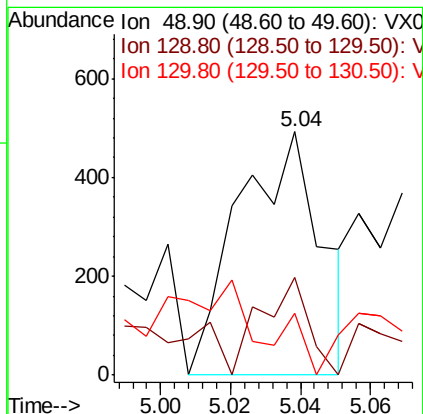
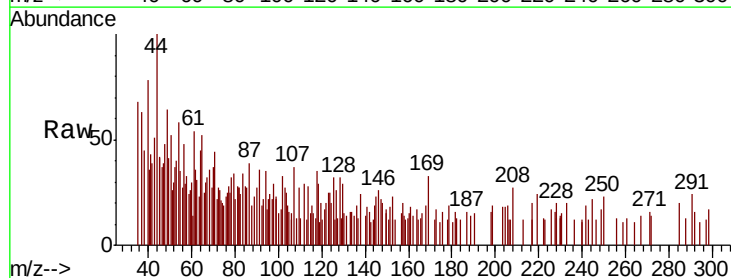
Tot Ion	Ratio	Lower	Upper
96	100		
61	123.4	0.0	286.2
98	64.9	0.0	131.0

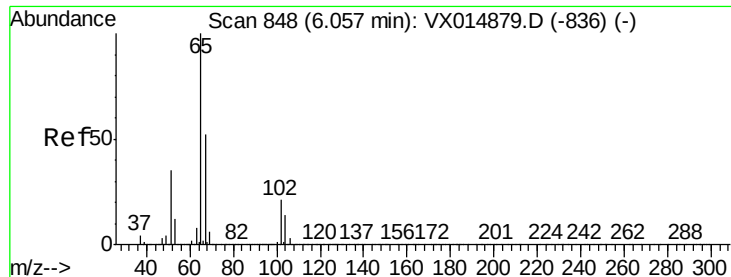


#28

Bromochloromethane
Concen: 0.274 ug/l
RT: 5.04 min Scan# 681
Delta R.T. 0.02 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Tgt Ion	Ratio	Lower	Upper
49	100		
129	22.9	0.0	5.2#
130	42.7	67.4	101.2#

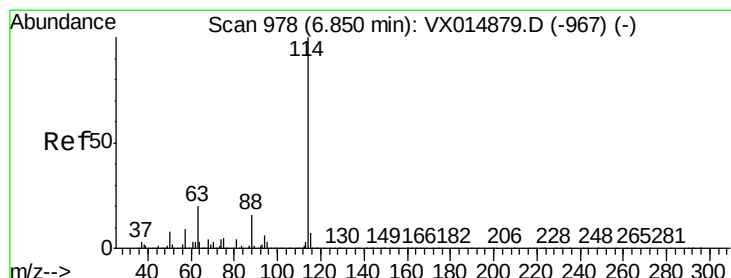
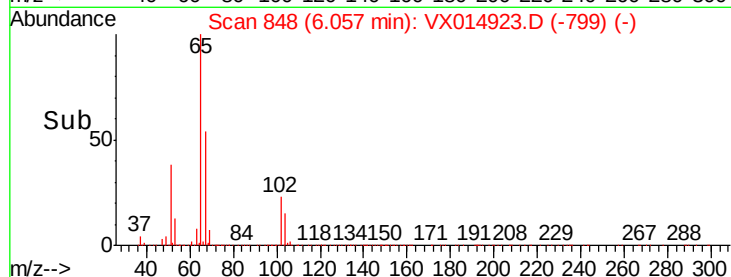
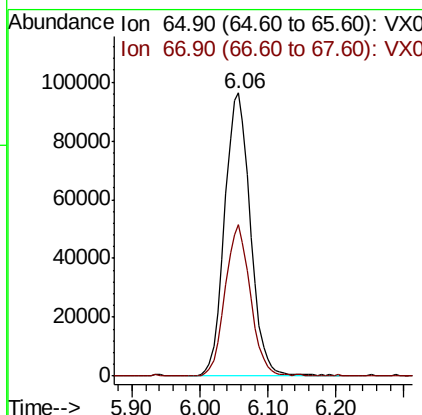
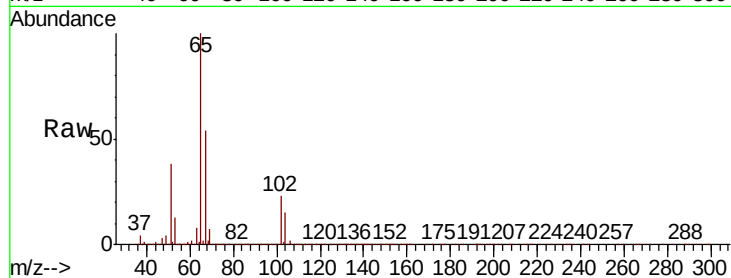




#33
 1,2-Dichloroethane-d4
 Concen: 50.647 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. -0.00 min
 Lab File: VX014923.D
 Acq: 12 Feb 2020 14:16

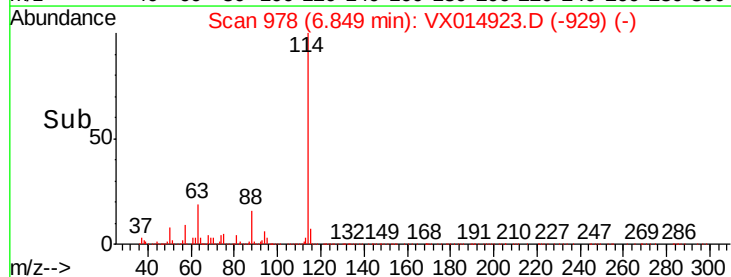
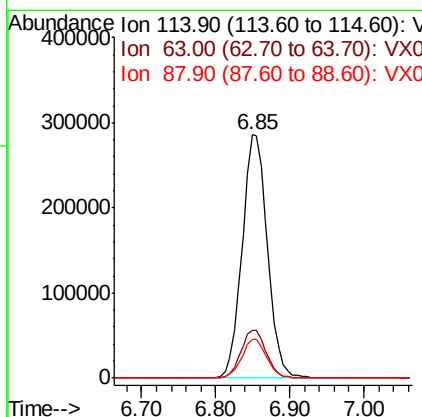
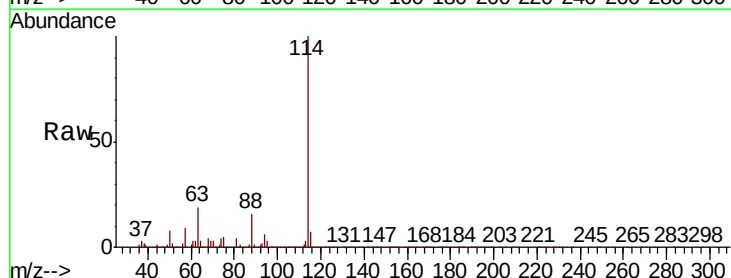
Instrument :
 MSVOA_X
 ClientSampleId :

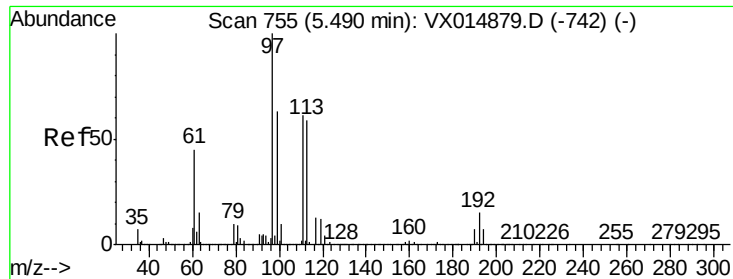
Tot Ion: 65 Resp: 251233
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014923.D
 Acq: 12 Feb 2020 14:16

Tgt Ion: 114 Resp: 679762
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.2
 88 15.6 0.0 32.0

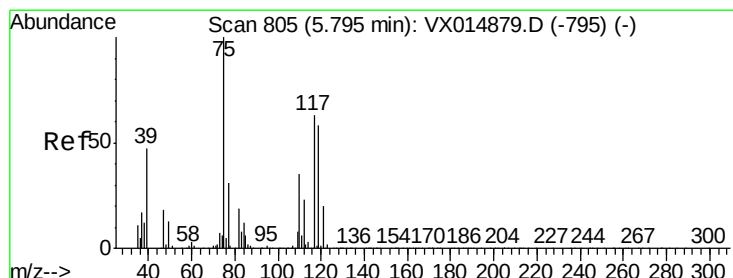
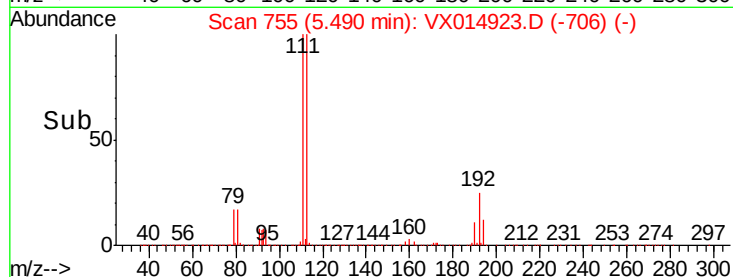
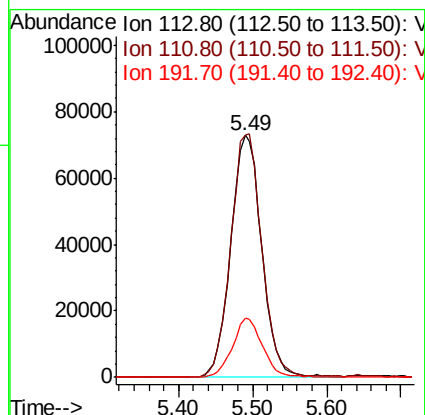
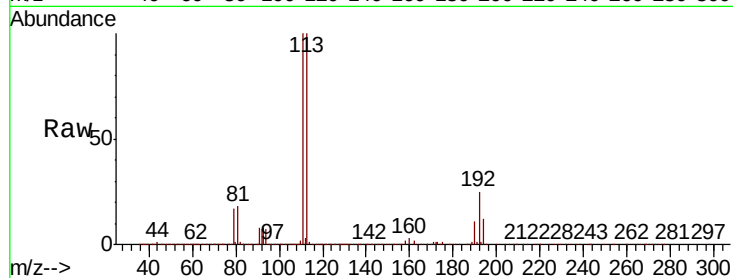




#35
Dibromofluoromethane
Concen: 50.498 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

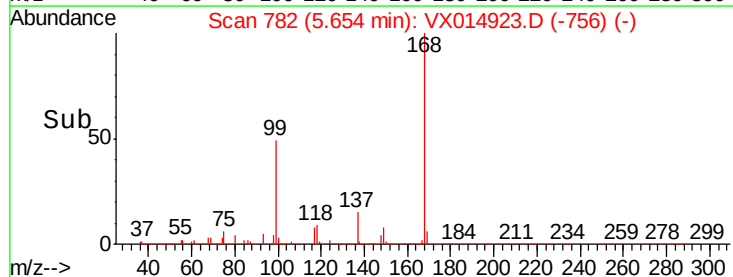
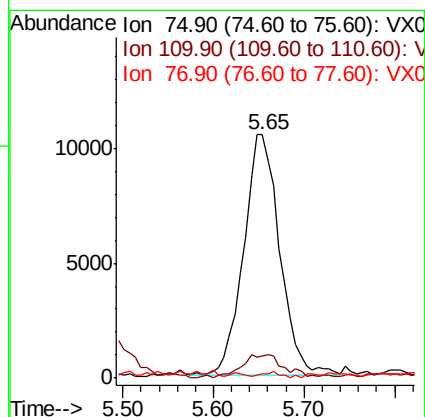
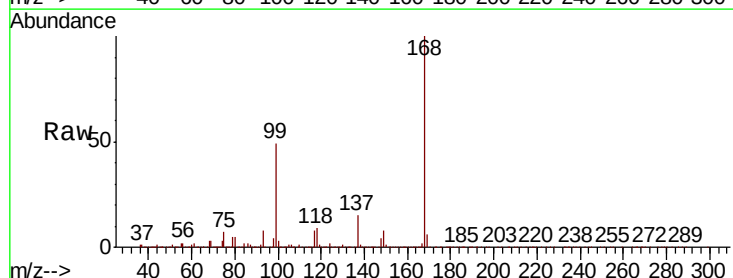
Instrument :
MSVOA_X
ClientSampleId :

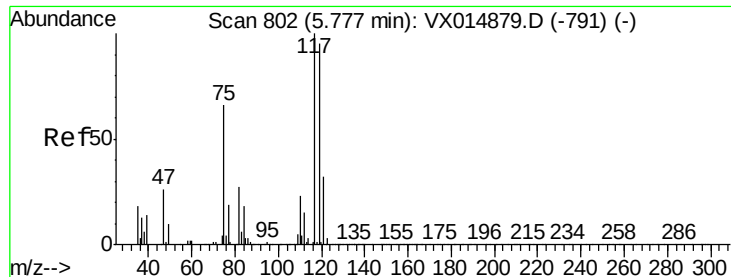
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.4	123.6
192	23.9	19.1	28.7



#36
1,1-Dichloropropene
Concen: 4.769 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.14 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.3	54.8#
77	1.4	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.539 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

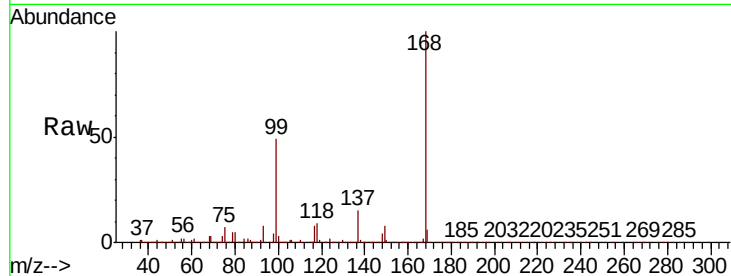
Tot Ion:117 Resp: 38750

Ion Ratio Lower Upper

117 100

119 6.2 76.0 114.0#

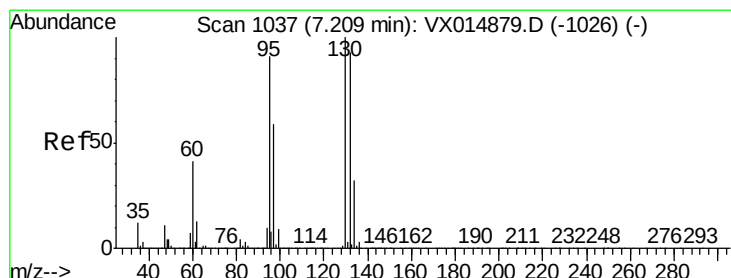
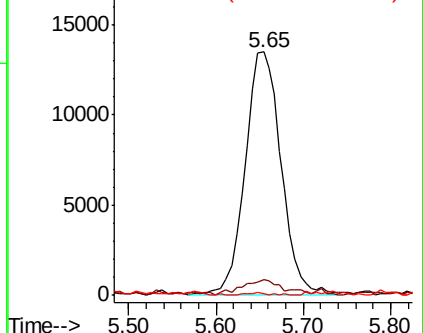
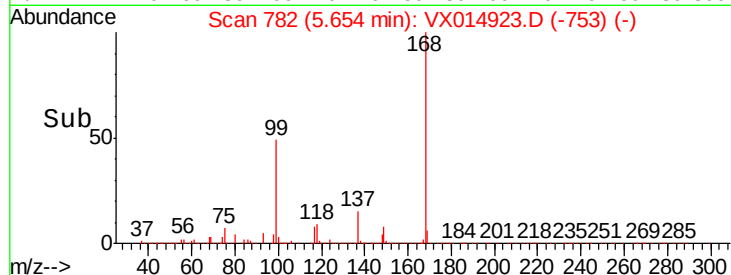
121 0.2 25.4 38.2#



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



#44

Trichloroethene

Concen: 1.711 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX014923.D

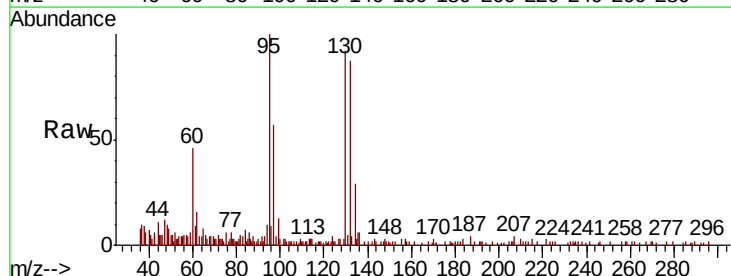
Acq: 12 Feb 2020 14:16

Tgt Ion:130 Resp: 9026

Ion Ratio Lower Upper

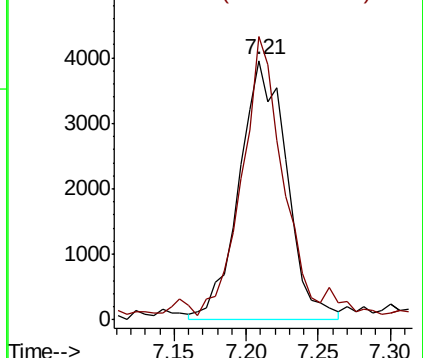
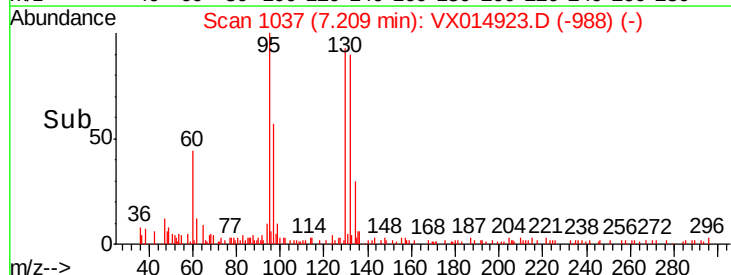
130 100

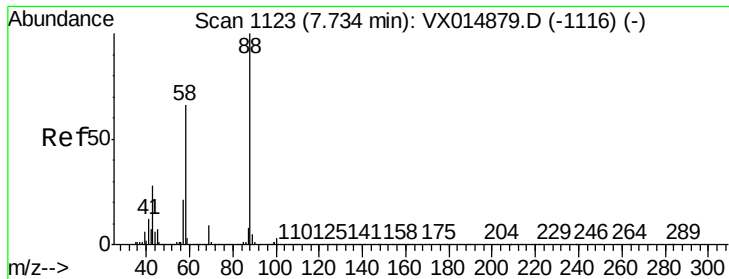
95 108.5 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

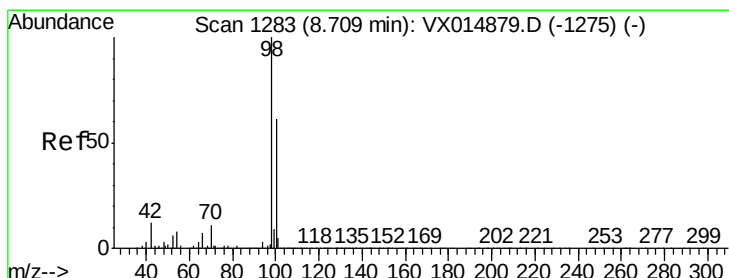
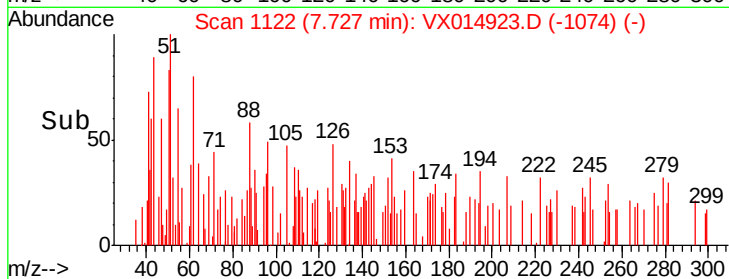
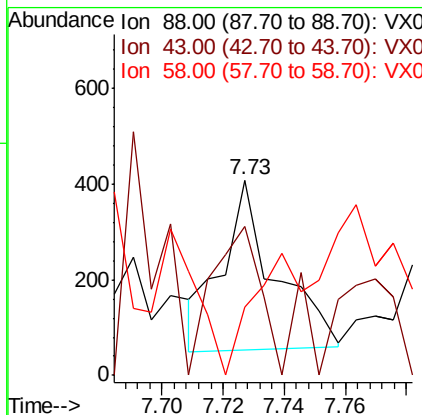
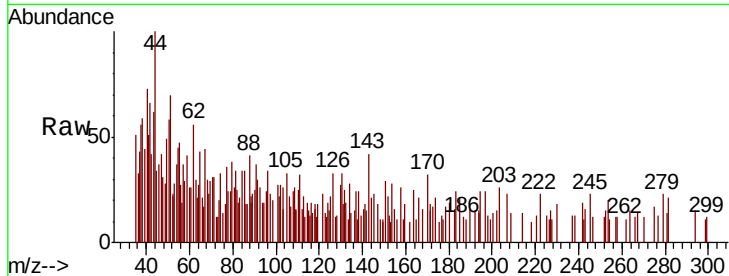




#49
1,4-Dioxane
Concen: 4.446 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

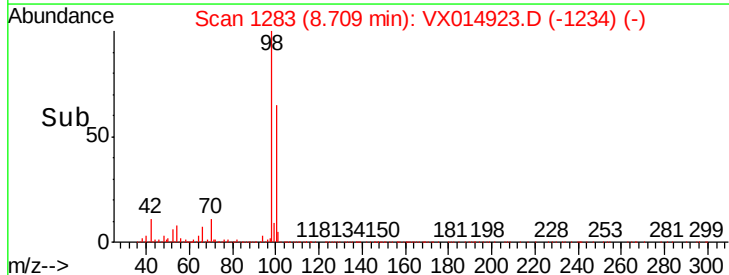
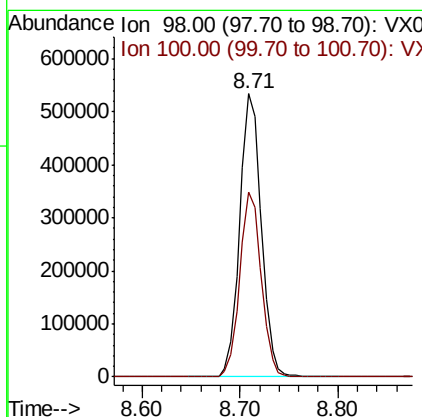
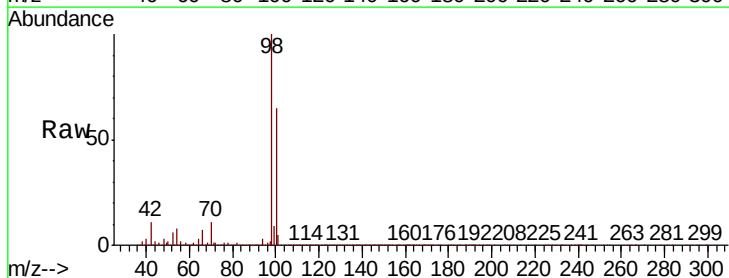
Instrument :
MSVOA_X
ClientSampleId :

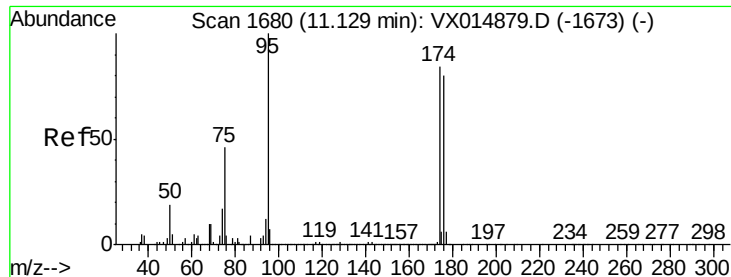
Tot Ion: 88 Resp: 428
Ion Ratio Lower Upper
88 100
43 79.7 27.0 40.4#
58 0.0 53.2 79.8#



#50
Toluene-d8
Concen: 51.286 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Tgt Ion: 98 Resp: 818099
Ion Ratio Lower Upper
98 100
100 65.2 52.4 78.6

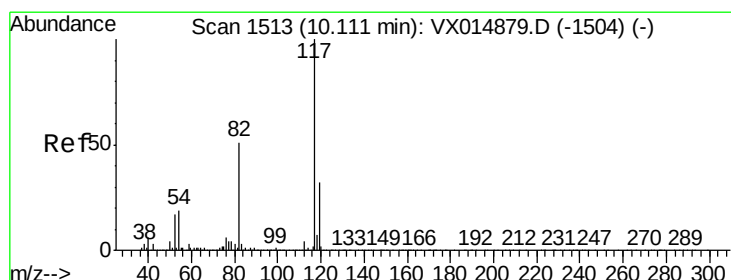
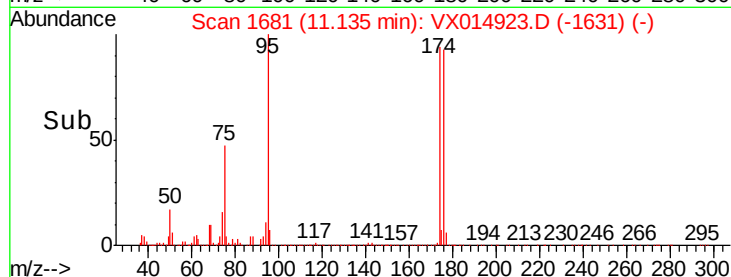
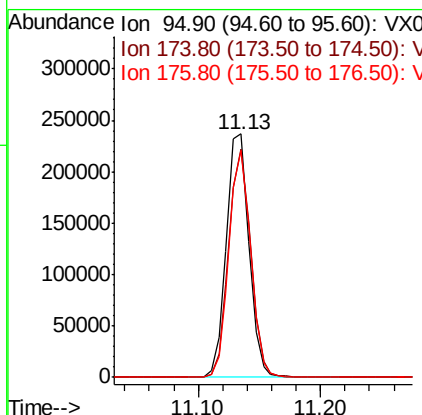
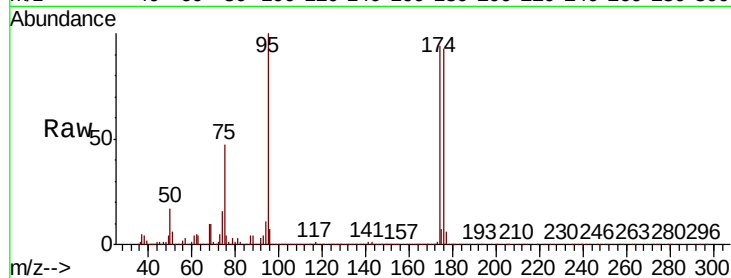




#62
4-Bromofluorobenzene
Concen: 52.863 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

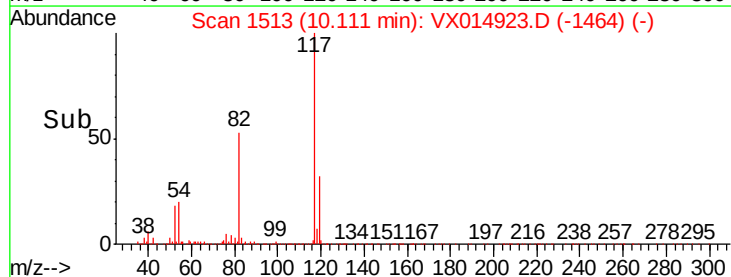
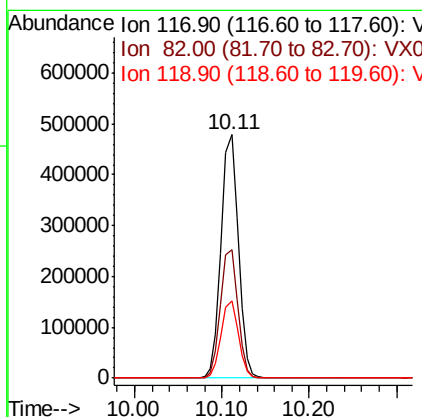
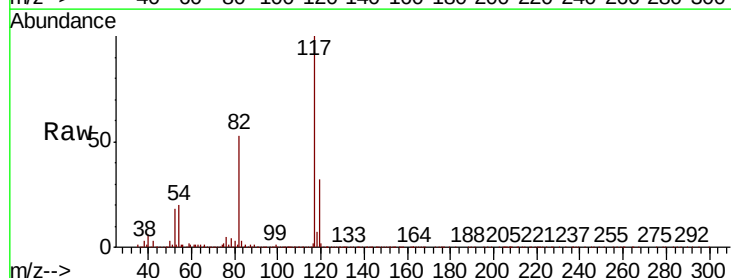
Instrument :
MSVOA_X
ClientSampleId :

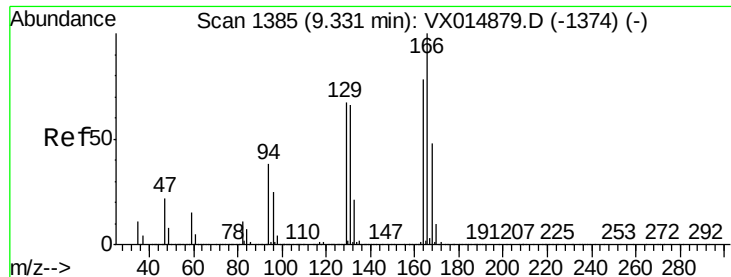
Tot Ion: 95 Resp: 303768
Ion Ratio Lower Upper
95 100
174 91.5 0.0 183.0
176 89.4 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Tgt Ion: 117 Resp: 654251
Ion Ratio Lower Upper
117 100
82 52.7 40.5 60.7
119 31.8 25.8 38.6

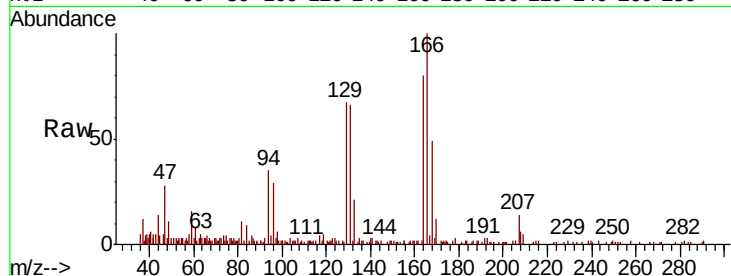




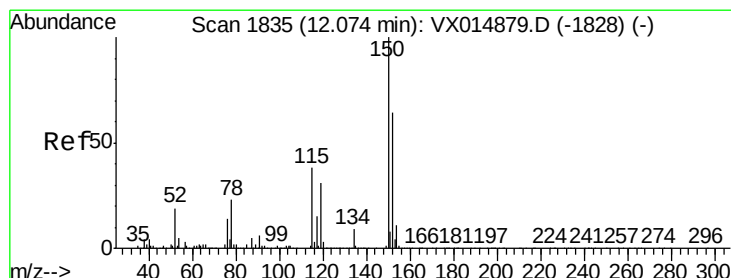
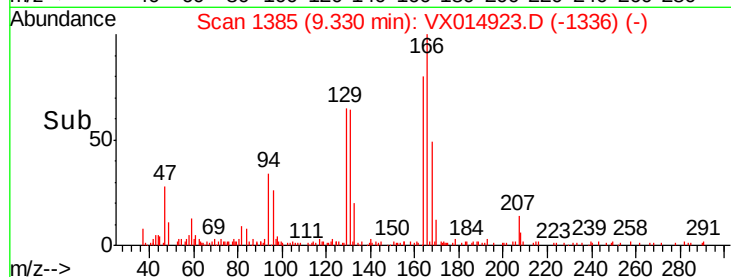
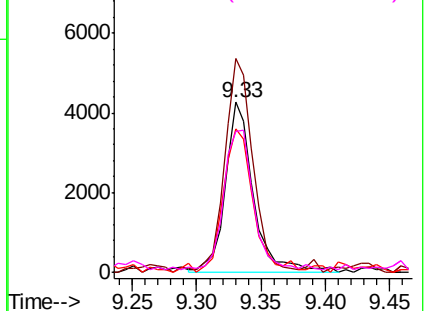
#64
Tetrachloroethene
Concen: 1.070 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 6544
Ion Ratio Lower Upper
164 100
166 123.9 102.6 153.8
129 79.0 68.3 102.5
131 79.5 67.4 101.2

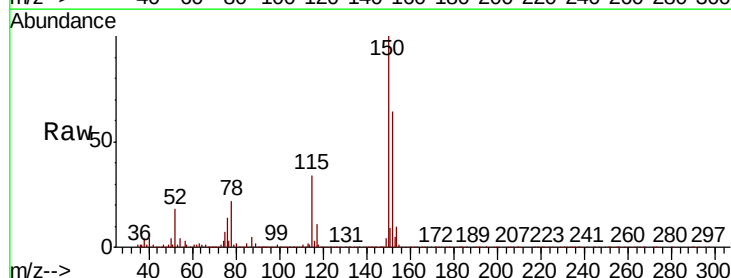


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

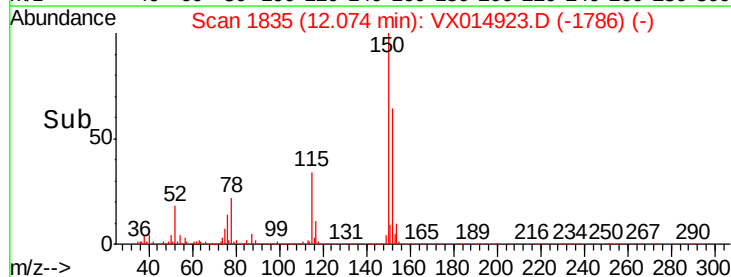
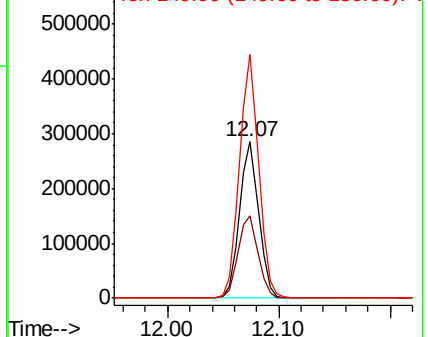


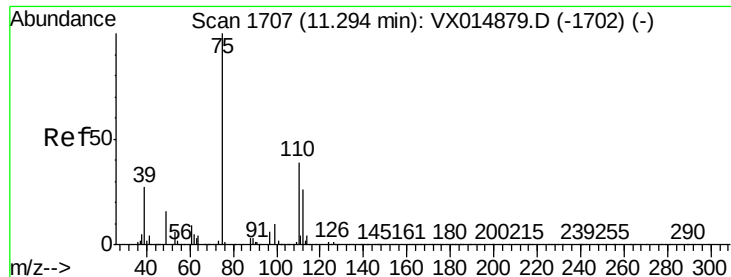
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014923.D
Acq: 12 Feb 2020 14:16

Tgt Ion:152 Resp: 341222
Ion Ratio Lower Upper
152 100
115 54.5 38.6 116.0
150 156.8 0.0 349.0



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: 24.062 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

Instrument :

MSVOA_X

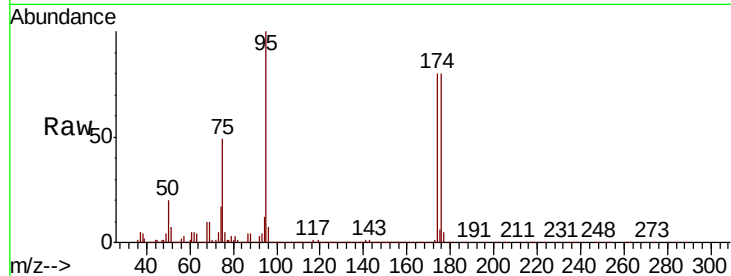
ClientSampleId :

Tot Ion: 75 Resp: 148473

Ion Ratio Lower Upper

75 100

77 1.6 18.4 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

120000

100000

80000

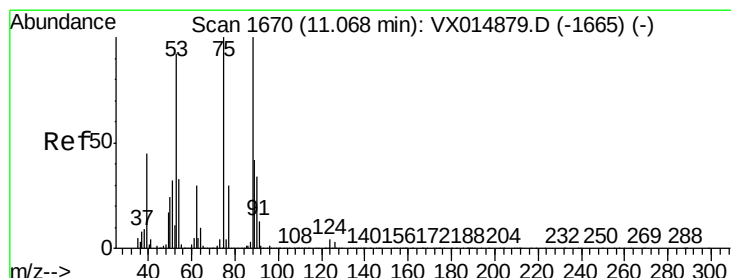
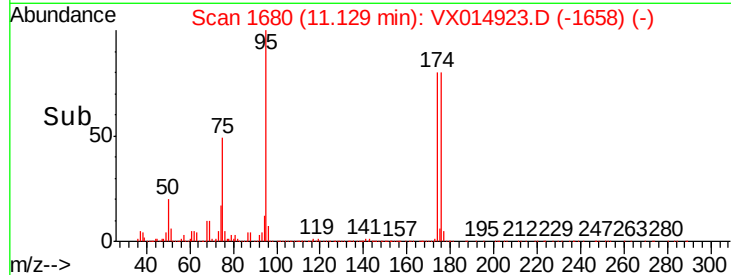
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.592 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014923.D

Acq: 12 Feb 2020 14:16

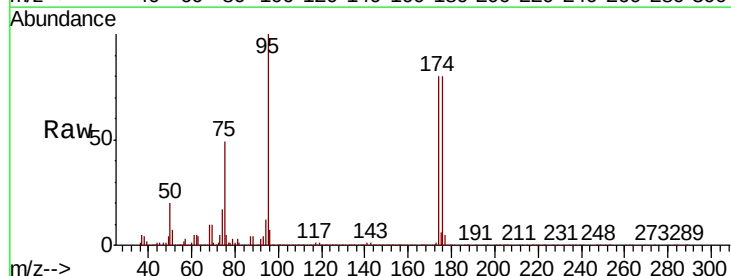
Tgt Ion: 75 Resp: 148473

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.1 35.8 53.6#



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

150000

100000

50000

0

Time-->

