

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052618\
 Data File : VX002029.D
 Acq On : 26 May 2018 19:53
 Operator : JC/MD
 Sample : J3118-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 28 00:35:29 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	302874	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	417206	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	365918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189313	50.00	ug/l	0.00

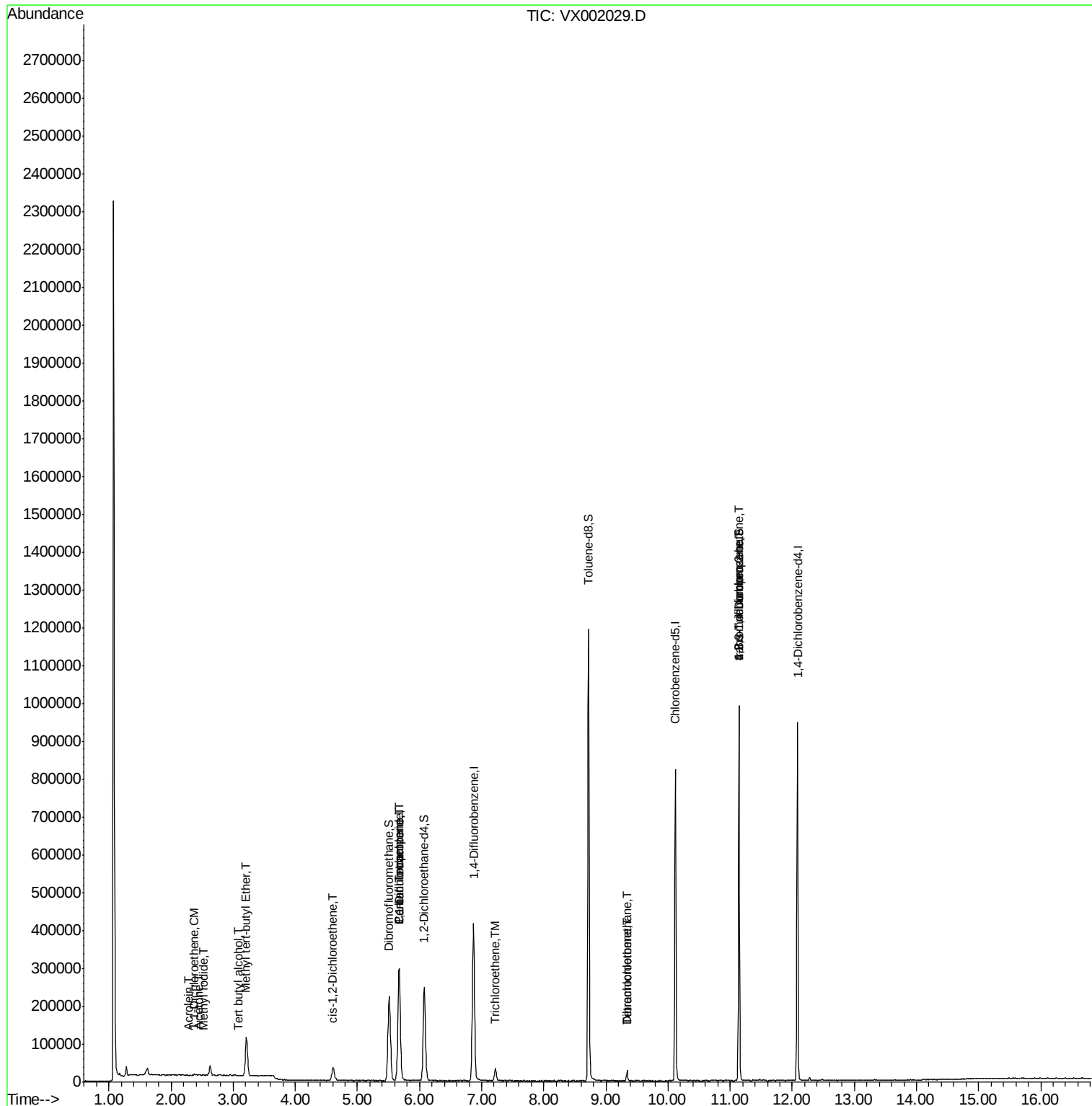
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	235856	43.57	ug/l	0.00
Spiked Amount			Recovery	=	87.14%	
35) Dibromofluoromethane	5.51	113	183664	44.02	ug/l	0.00
Spiked Amount			Recovery	=	88.04%	
50) Toluene-d8	8.72	98	703150	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
62) 4-Bromofluorobenzene	11.14	95	237553	40.20	ug/l	0.00
Spiked Amount			Recovery	=	80.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	221	Below Cal	#	41
5) Bromomethane	1.65	94	1109	Below Cal		81
10) Methyl Iodide	2.53	142	1217	0.24	ug/l	96
11) Tert butyl alcohol	3.08	59	496	0.47	ug/l	# 71
12) 1,1-Dichloroethene	2.38	96	791	0.22	ug/l	# 71
13) Acrolein	2.29	56	165	0.36	ug/l	99
16) Acetone	2.45	43	3104	1.49	ug/l	92
18) Methyl Acetate	2.79	43	2325	Below Cal	#	88
19) Methyl tert-butyl Ether	3.21	73	115281	8.68	ug/l	98
20) Methylene Chloride	2.86	84	236	Below Cal	#	70
21) trans-1,2-Dichloroethene	3.15	96	384	Below Cal	#	77
27) cis-1,2-Dichloroethene	4.60	96	18070	3.93	ug/l	69
28) Bromochloromethane	4.90	49	21	Below Cal	#	14
36) 1,1-Dichloropropene	5.67	75	21223	3.66	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	27928	4.13	ug/l	# 15
41) Methacrylonitrile	4.99	41	211	Below Cal		91
44) Trichloroethene	7.23	130	12624	2.55	ug/l	97
60) Dibromochloromethane	9.34	129	4604	0.86	ug/l	# 11
64) Tetrachloroethene	9.34	164	5533	1.05	ug/l	91
74) N-amyl acetate	6.48	43	306	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.25	83	57	Below Cal	#	71
76) 1,2,3-Trichloropropane	11.14	75	125012	27.49	ug/l	# 33
79) 2-Chlorotoluene	11.43	91	410	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	125012	66.08	ug/l	# 10

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

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Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :

MSVOA_X

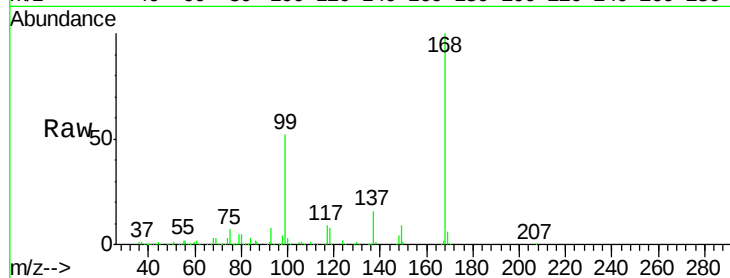
ClientSampleId :

Tot Ion:168 Resp: 302874

Ion Ratio Lower Upper

168 100

99 52.1 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

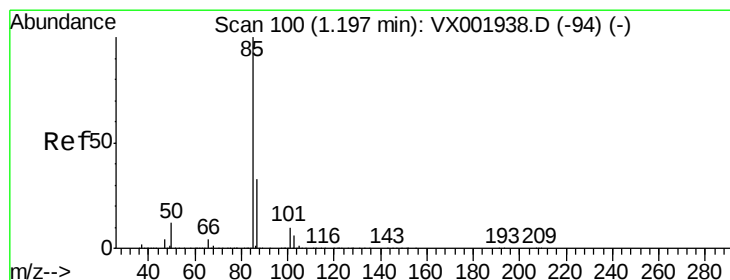
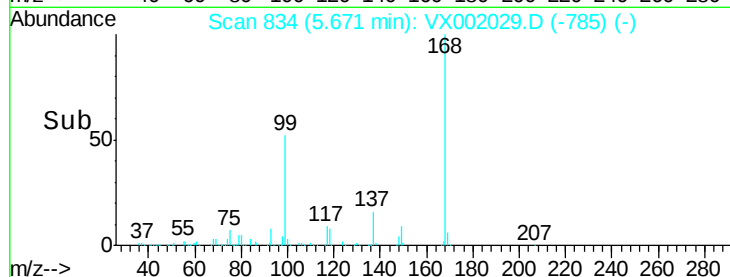
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX002029.D

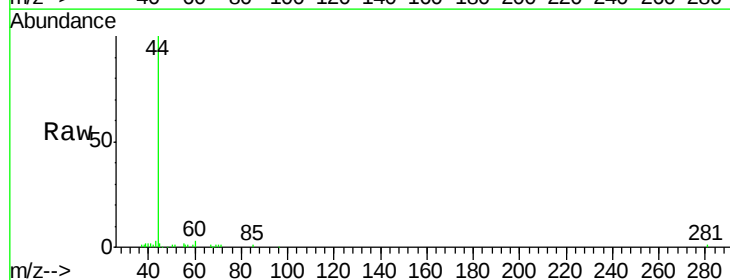
Acq: 26 May 2018 19:53

Tgt Ion: 85 Resp: 221

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

120

100

80

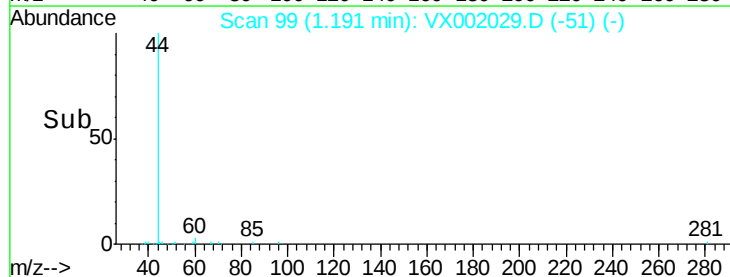
60

40

20

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :

MSVOA_X

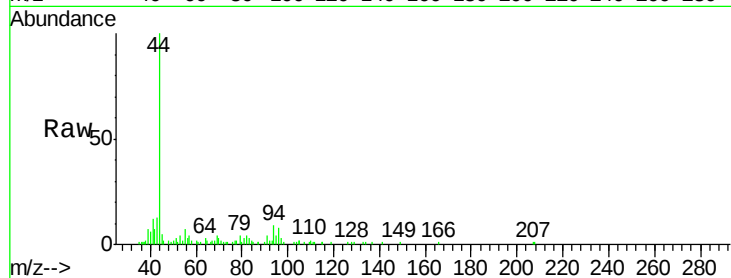
ClientSampled :

Tot Ion: 94 Resp: 1109

Ion Ratio Lower Upper

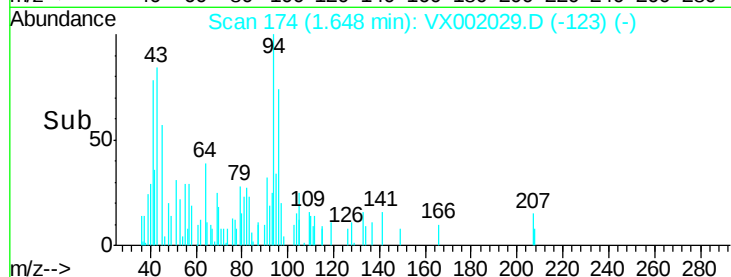
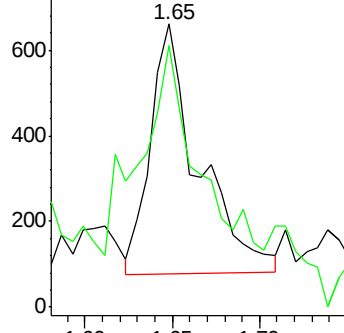
94 100

96 76.9 75.9 113.9

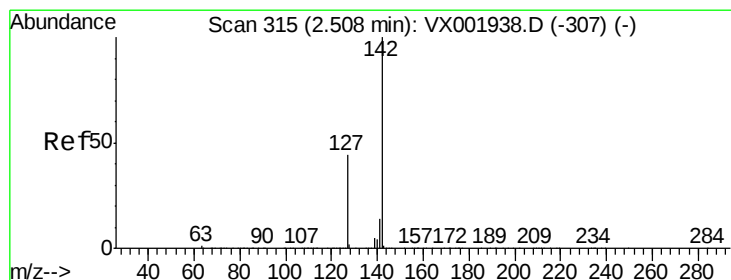


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 0.24 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.02 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

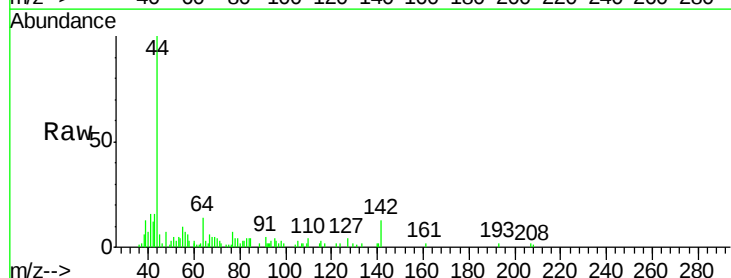
Tgt Ion: 142 Resp: 1217

Ion Ratio Lower Upper

142 100

127 46.5 35.5 53.3

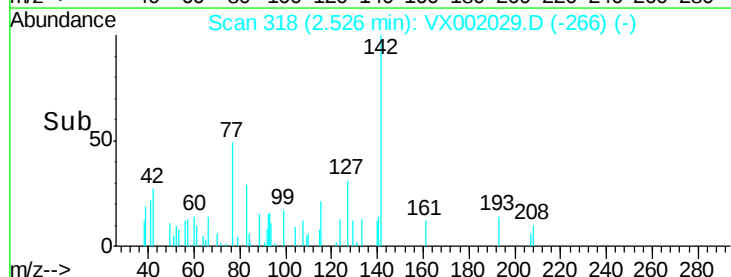
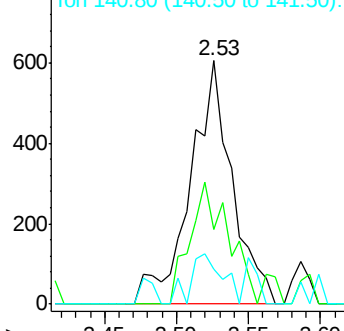
141 15.9 11.3 16.9



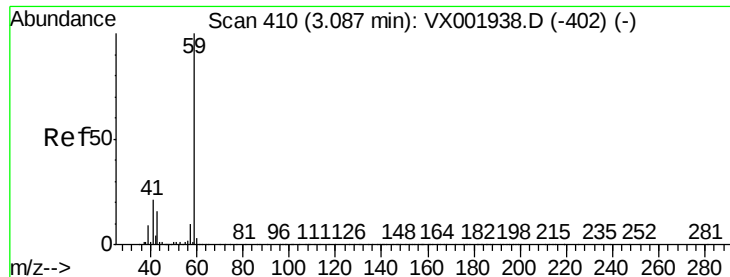
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

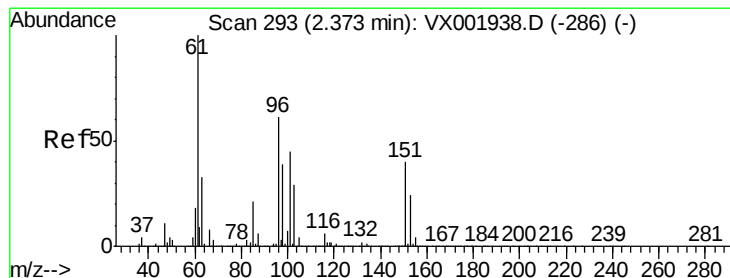
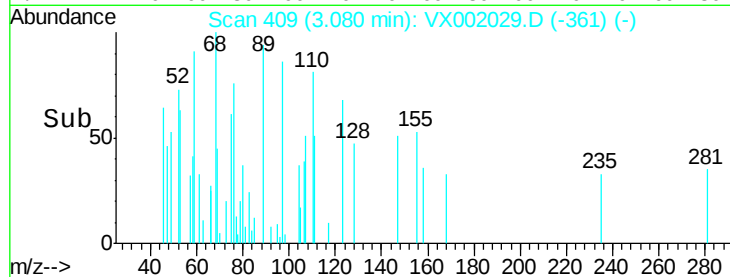
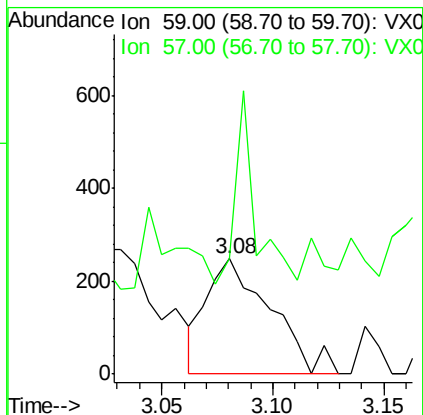
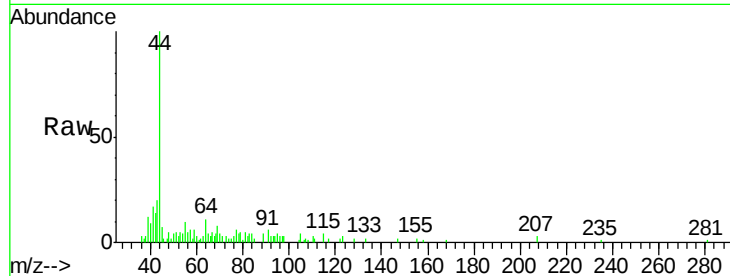


#11

Tert butyl alcohol
 Concen: 0.47 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: VX002029.D
 Acq: 26 May 2018 19:53

Instrument :
 MSVOA_X
 ClientSampled :

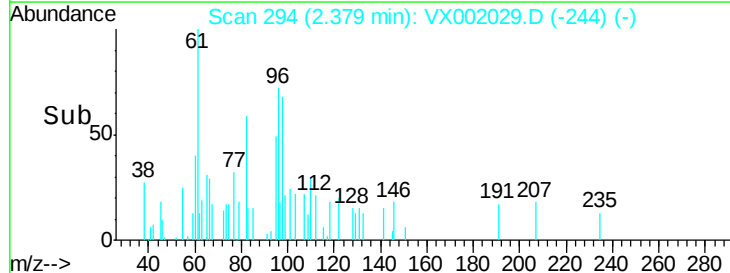
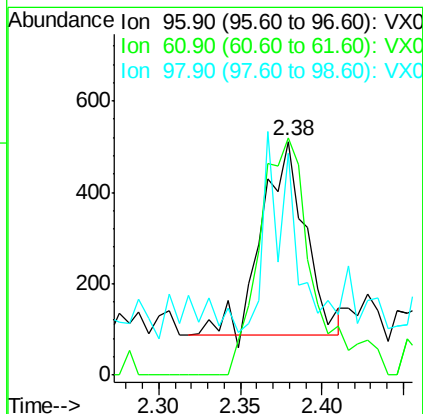
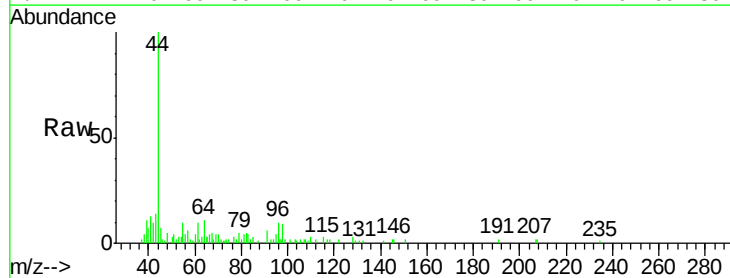
Tot Ion: 59 Resp: 496
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.9 13.3#

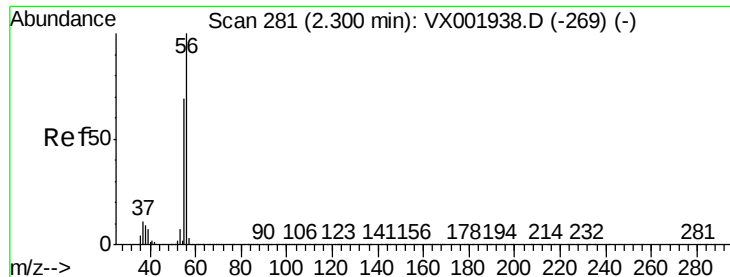


#12

1,1-Dichloroethene
 Concen: 0.22 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX002029.D
 Acq: 26 May 2018 19:53

Tgt Ion: 96 Resp: 791
 Ion Ratio Lower Upper
 96 100
 61 122.4 131.7 197.5#
 98 83.3 51.6 77.4#





#13

Acrolein

Concen: 0.36 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :

MSVOA_X

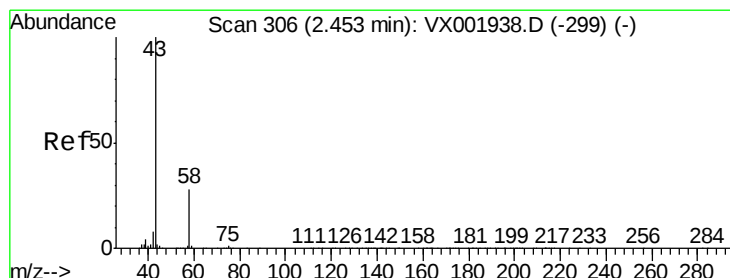
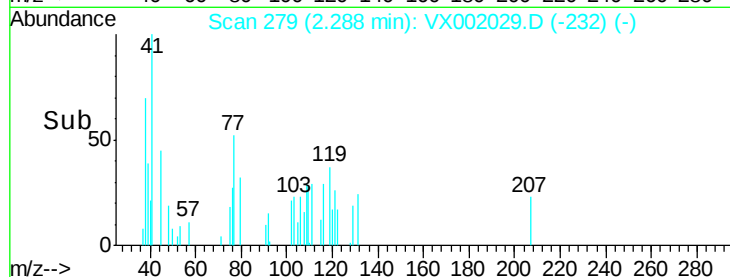
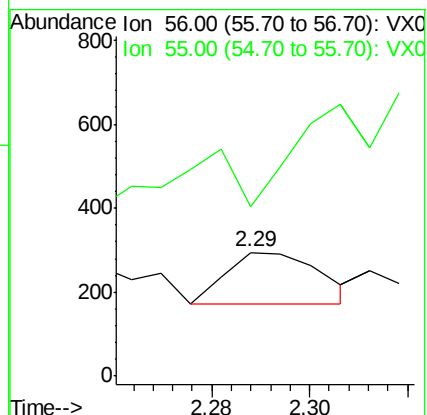
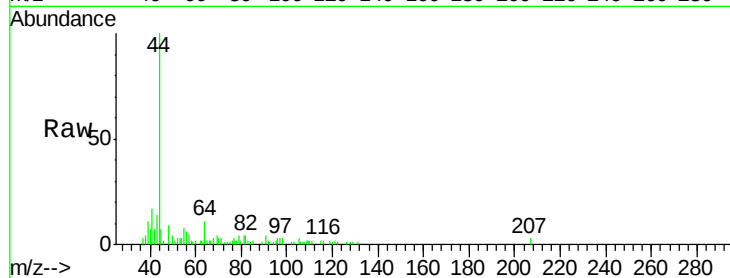
ClientSampled :

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 70.3 56.8 85.2



#16

Acetone

Concen: 1.49 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002029.D

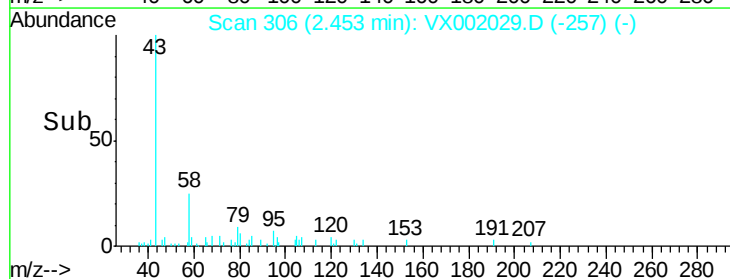
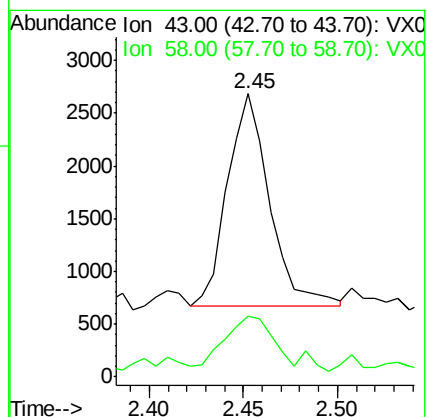
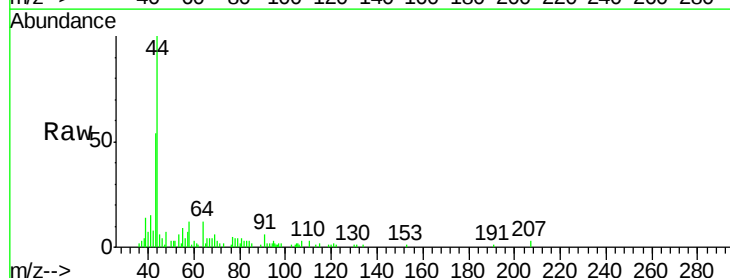
Acq: 26 May 2018 19:53

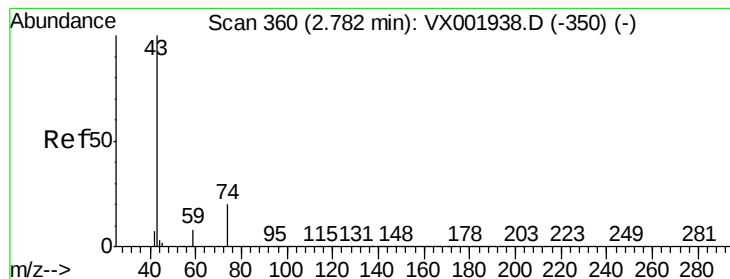
Tgt Ion: 43 Resp: 3104

Ion Ratio Lower Upper

43 100

58 23.9 22.3 33.5





#18

Methvl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :

MSVOA_X

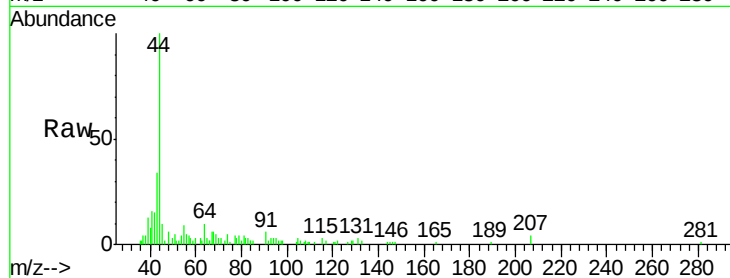
ClientSampleId :

Tot Ion: 43 Resp: 2325

Ion Ratio Lower Upper

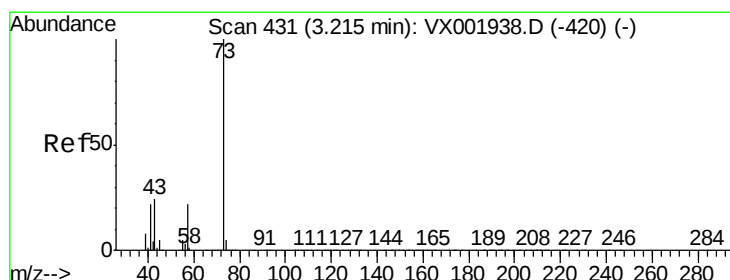
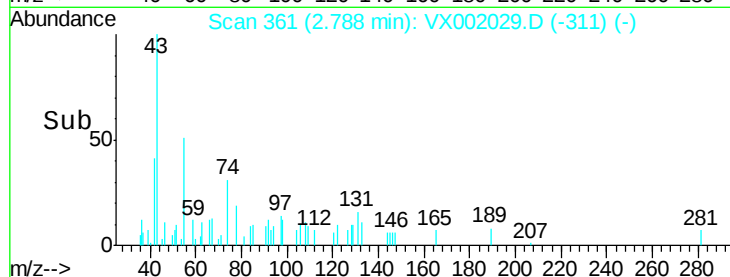
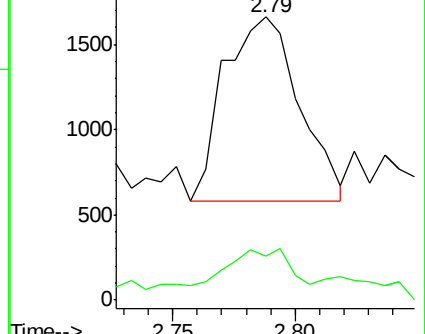
43 100

74 15.2 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#19

Methyl tert-butyl Ether

Concen: 8.68 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.01 min

Lab File: VX002029.D

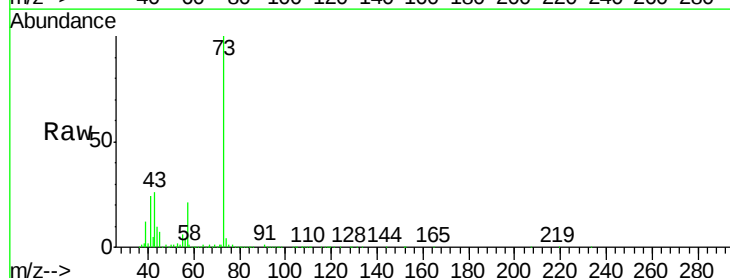
Acq: 26 May 2018 19:53

Tgt Ion: 73 Resp: 115281

Ion Ratio Lower Upper

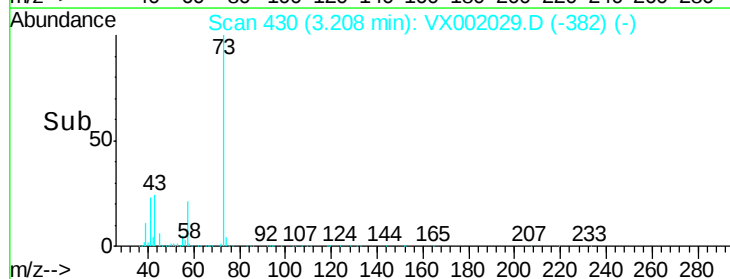
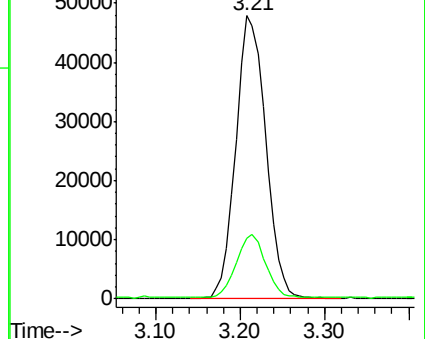
73 100

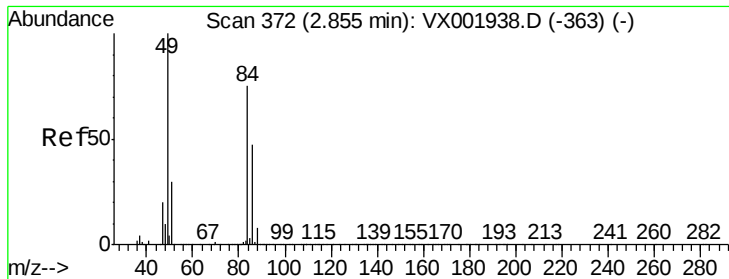
57 20.8 17.4 26.0



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

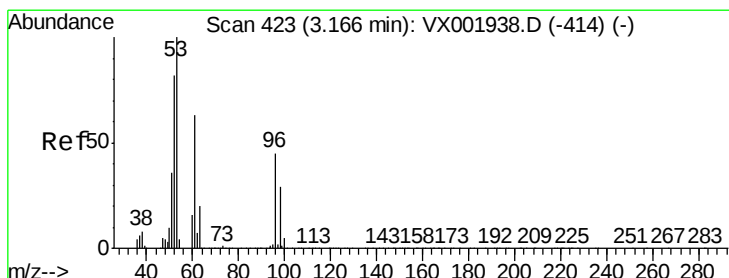
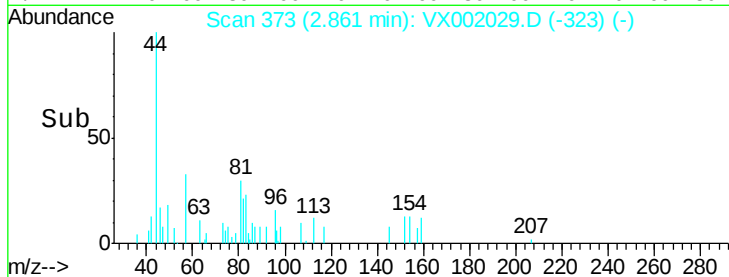
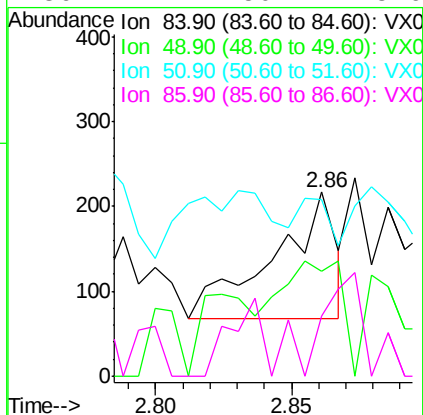
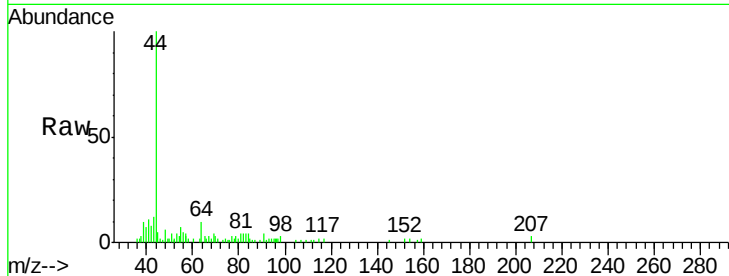




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

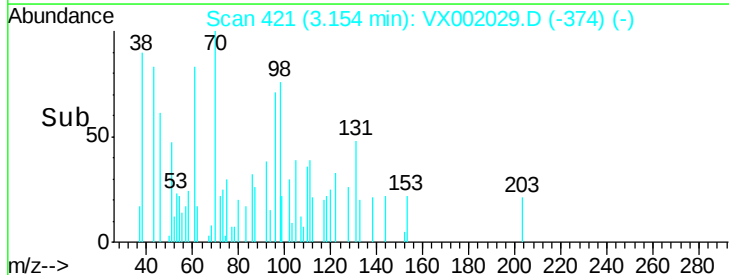
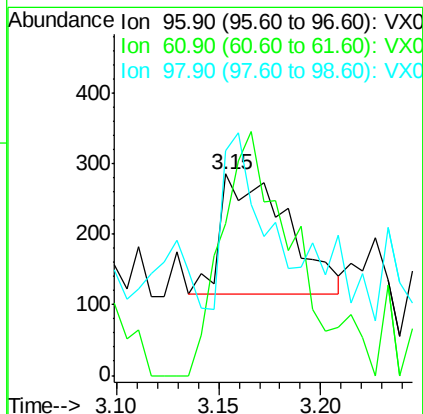
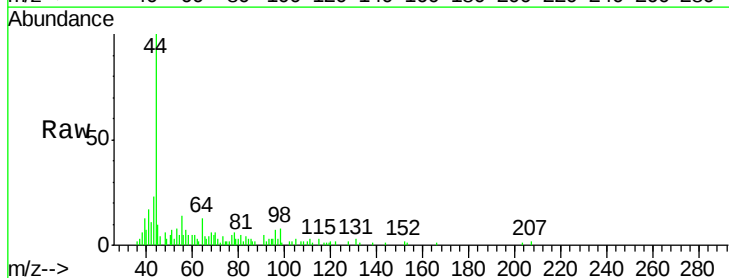
Instrument :
MSVOA_X
ClientSampled :

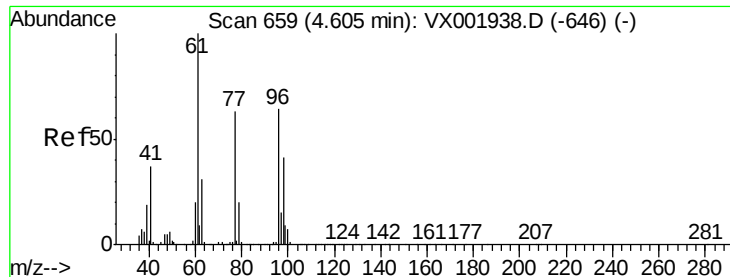
Tot Ion: 84 Resp: 236
Ion Ratio Lower Upper
84 100
49 83.2 107.2 160.8#
51 36.9 32.4 48.6
86 47.7 50.4 75.6#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.15 min Scan# 421
Delta R.T. -0.01 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

Tgt Ion: 96 Resp: 384
Ion Ratio Lower Upper
96 100
61 126.5 113.3 169.9
98 101.2 51.7 77.5#



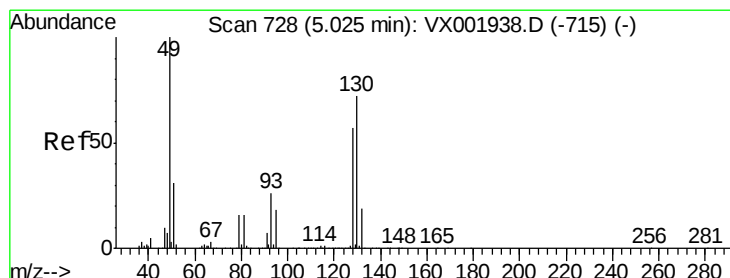
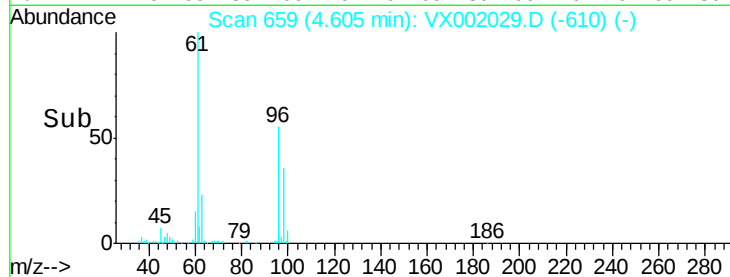
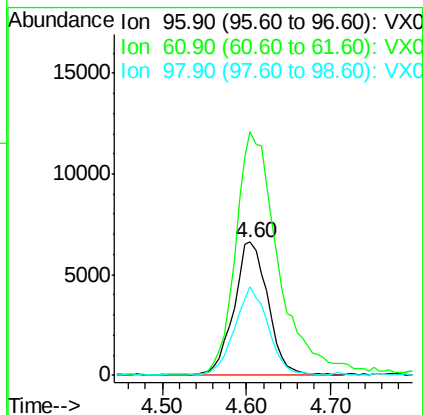
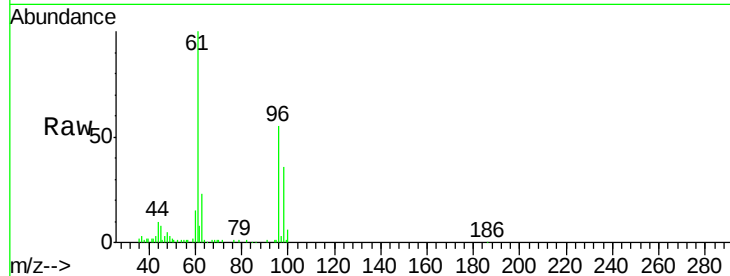


#27

cis-1,2-Dichloroethene
Concen: 3.93 ug/l
RT: 4.60 min Scan# 659
Delta R.T. -0.00 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

Instrument :
MSVOA_X
ClientSampled :

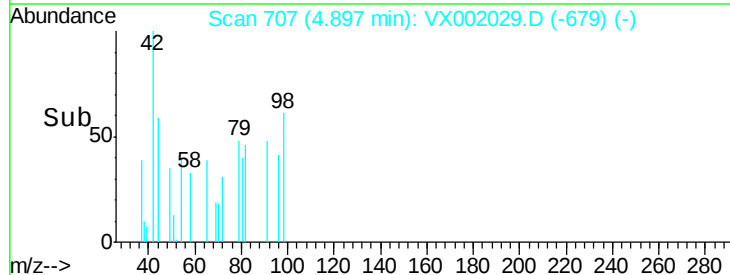
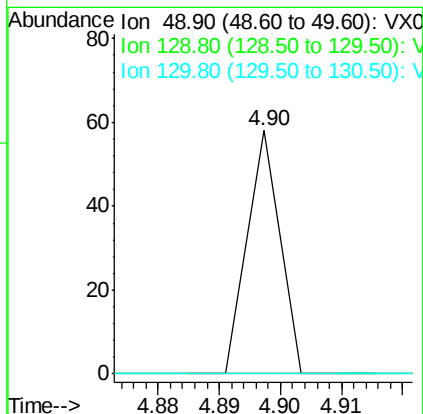
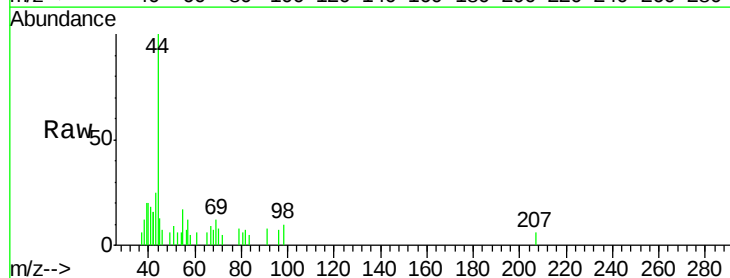
Tot Ion	96	Resp	18070
Ion	Ratio	Lower	Upper
96	100		
61	231.9	0.0	348.4
98	65.4	0.0	128.6

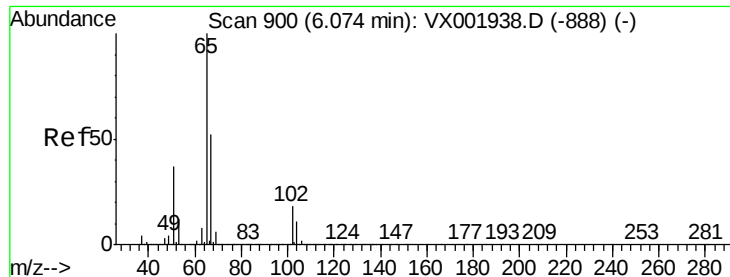


#28

Bromochloromethane
Concen: Below Cal
RT: 4.90 min Scan# 707
Delta R.T. -0.13 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

Tgt Ion	49	Resp	21
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#

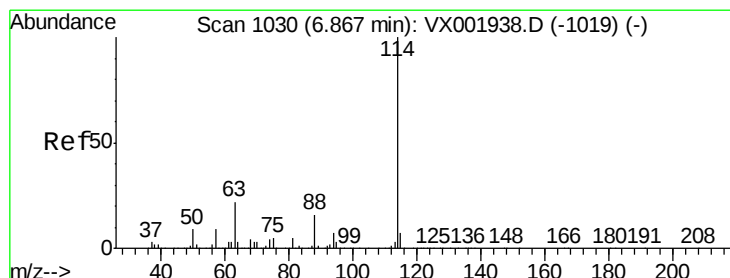
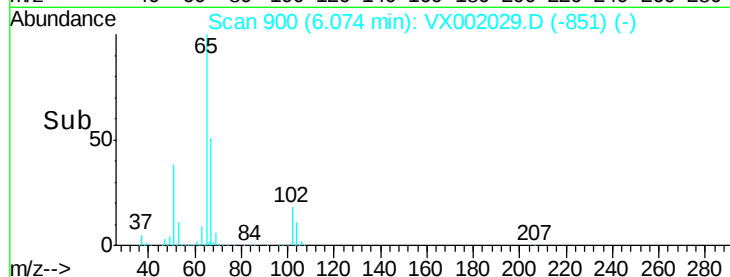
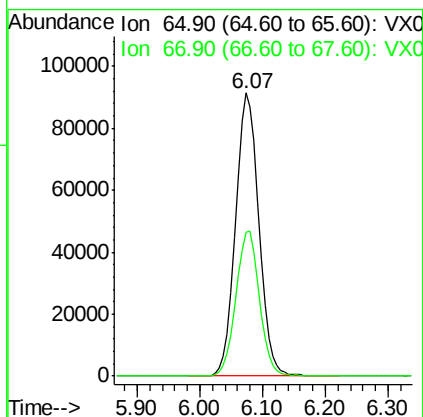
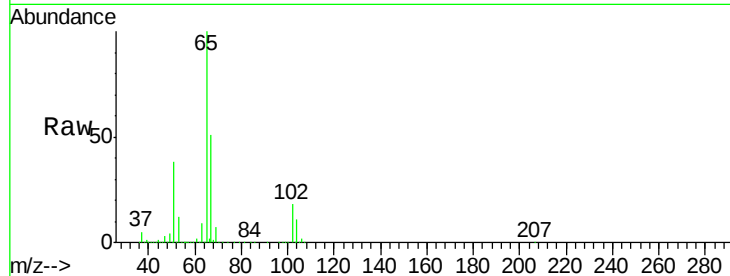




#33
 1,2-Dichloroethane-d4
 Concen: 43.57 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002029.D
 Acq: 26 May 2018 19:53

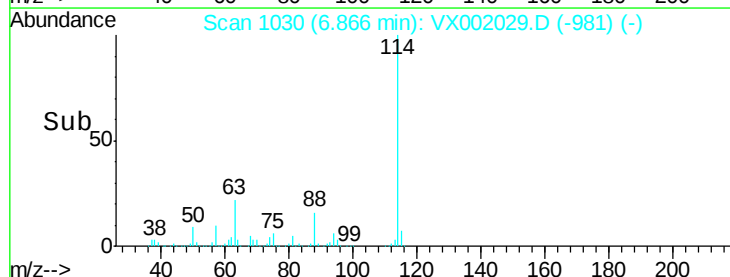
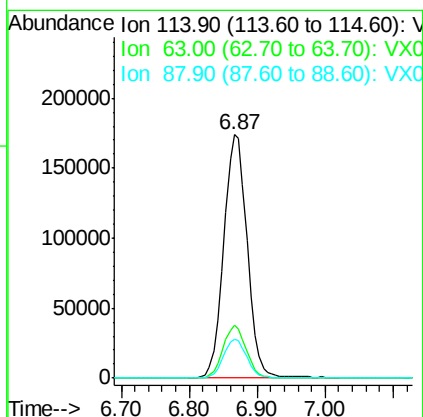
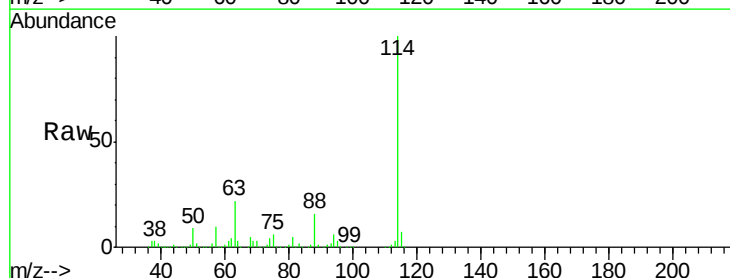
Instrument :
 MSVOA_X
 ClientSampled :

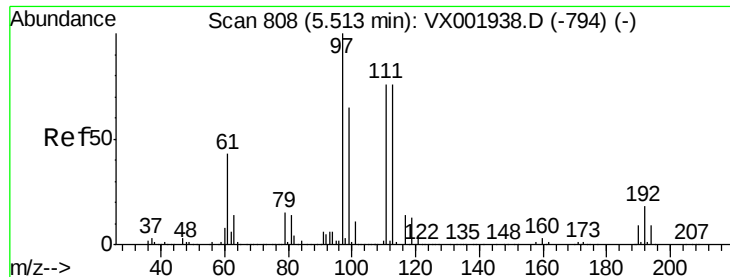
Tot Ion: 65 Resp: 235856
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002029.D
 Acq: 26 May 2018 19:53

Tgt Ion: 114 Resp: 417206
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 15.7 0.0 31.6

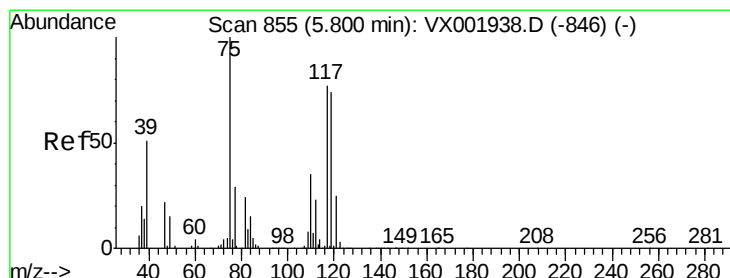
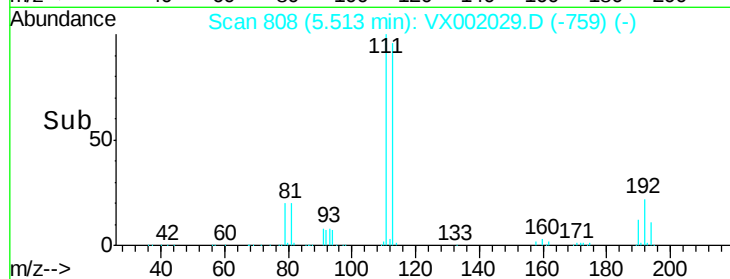
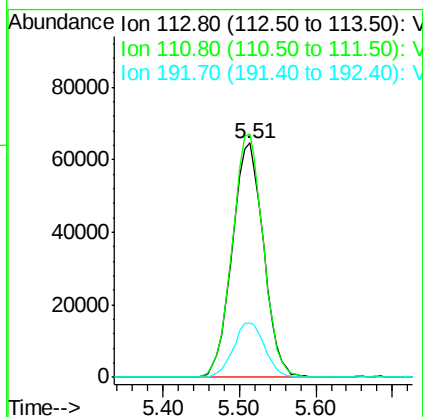
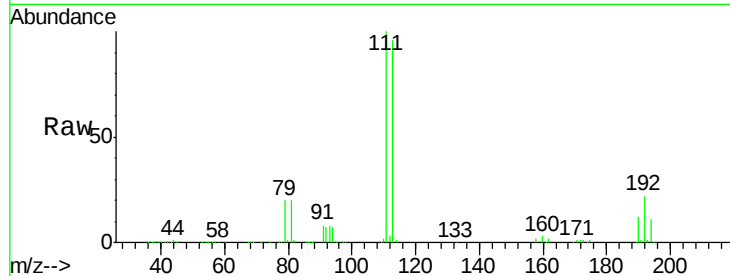




#35
 Dibromofluoromethane
 Concen: 44.02 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX002029.D
 Acq: 26 May 2018 19:53

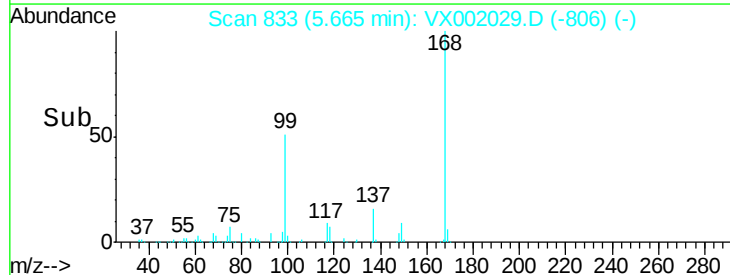
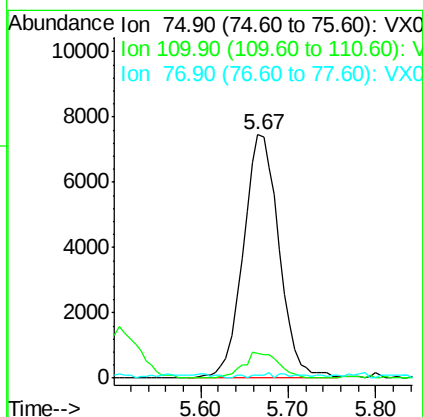
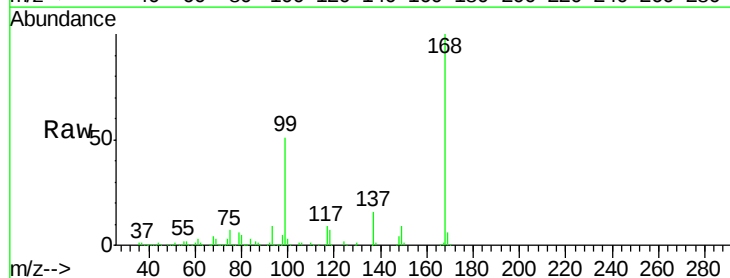
Instrument :
 MSVOA_X
 ClientSampleId :

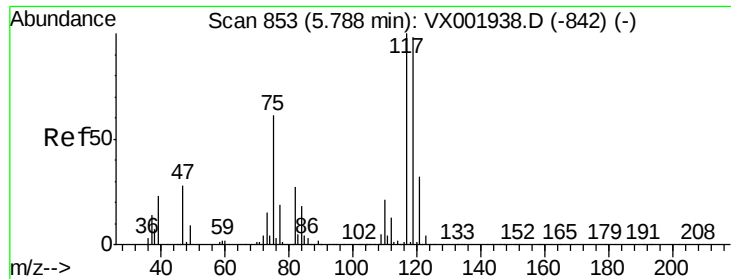
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.0	123.0
192	23.4	18.9	28.3



#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002029.D
 Acq: 26 May 2018 19:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	17.4	52.2#
77	0.7	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 4.13 ua/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :
MSVOA_X
ClientSampleId :

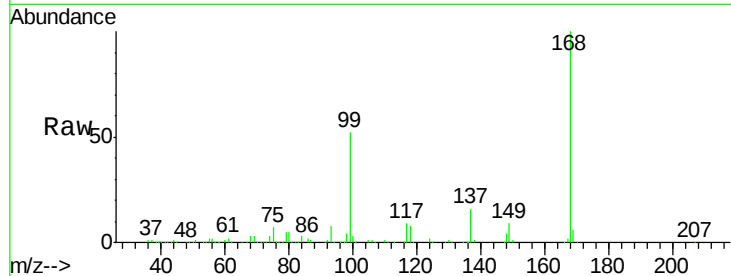
Tot Ion:117 Resp: 27928

Ion Ratio Lower Upper

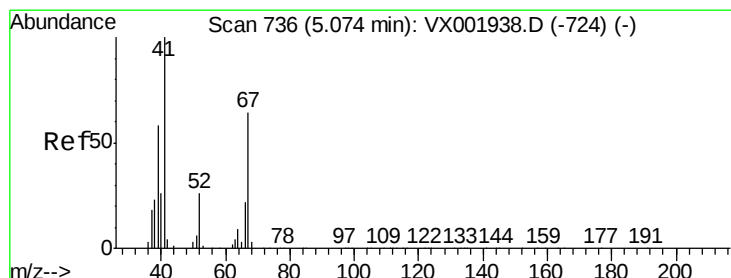
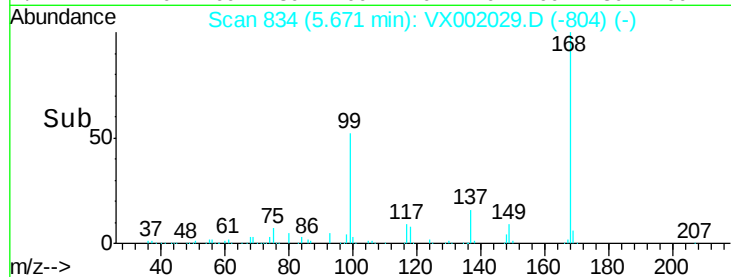
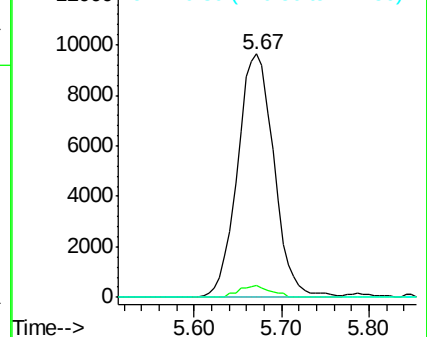
117 100

119 5.1 78.5 117.7#

121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.99 min Scan# 723

Delta R.T. -0.08 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Tgt Ion: 41 Resp: 211

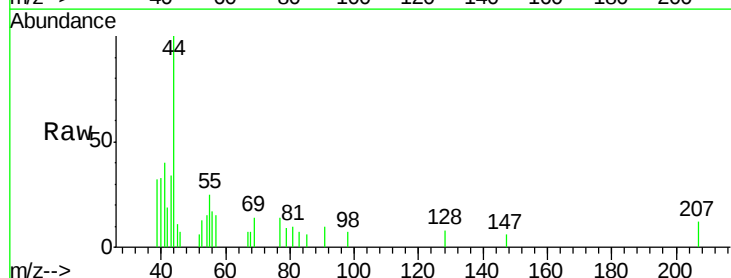
Ion Ratio Lower Upper

41 100

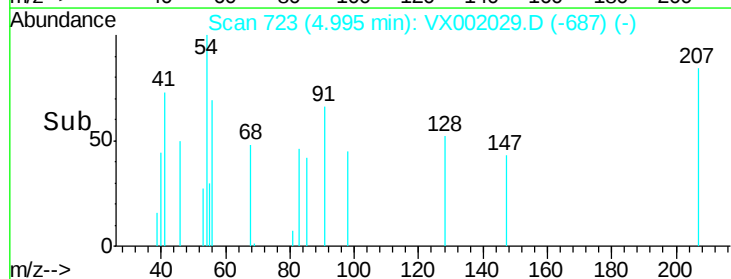
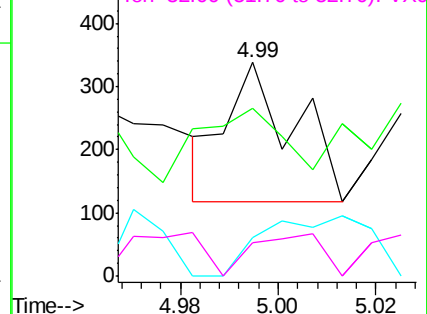
39 65.9 46.0 69.0

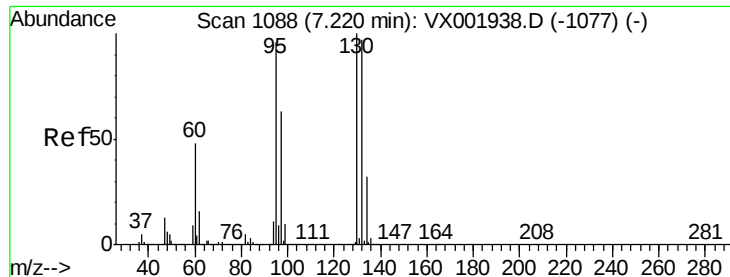
67 68.7 50.6 75.8

52 30.8 21.9 32.9



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 2.55 ug/l

RT: 7.23 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :

MSVOA_X

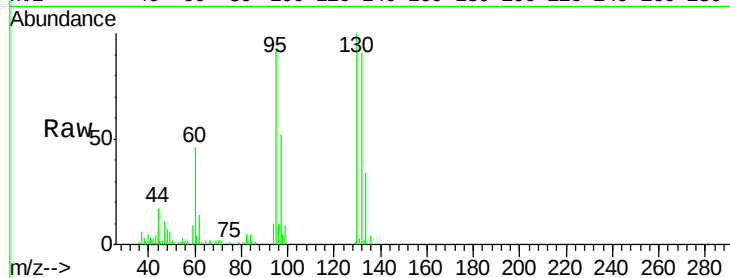
ClientSampleId :

Tot Ion:130 Resp: 12624

Ion Ratio Lower Upper

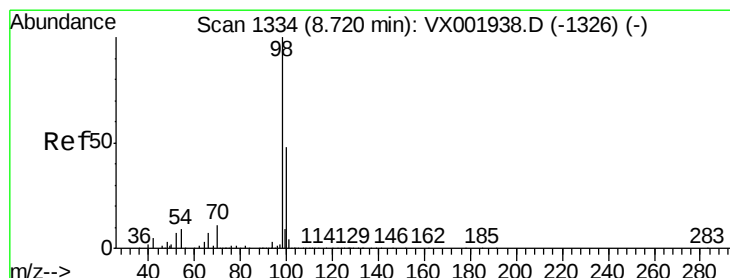
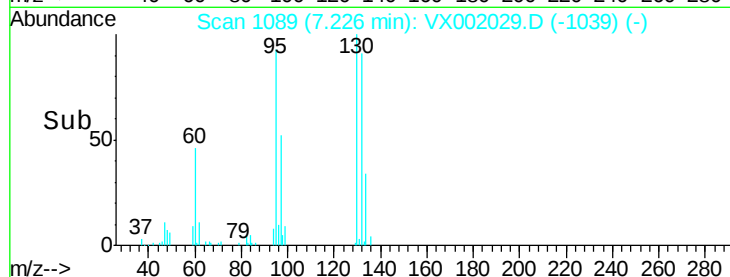
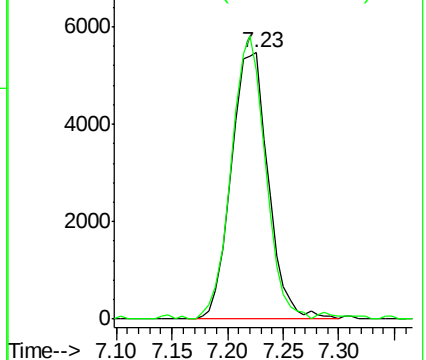
130 100

95 93.4 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 46.55 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002029.D

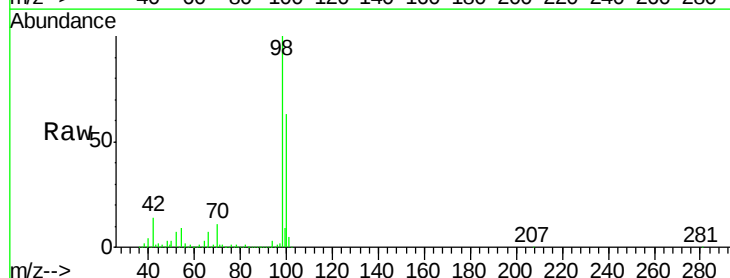
Acq: 26 May 2018 19:53

Tgt Ion: 98 Resp: 703150

Ion Ratio Lower Upper

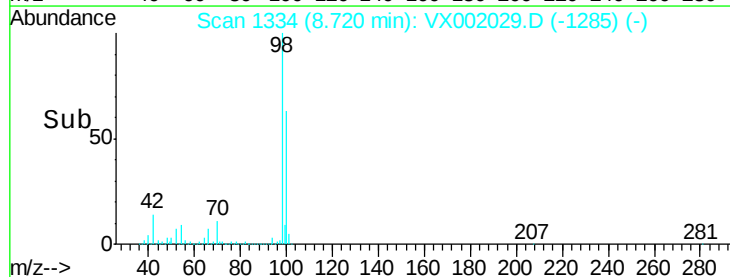
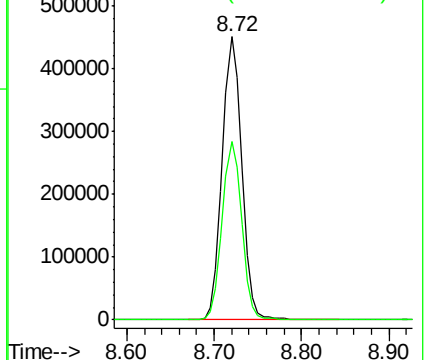
98 100

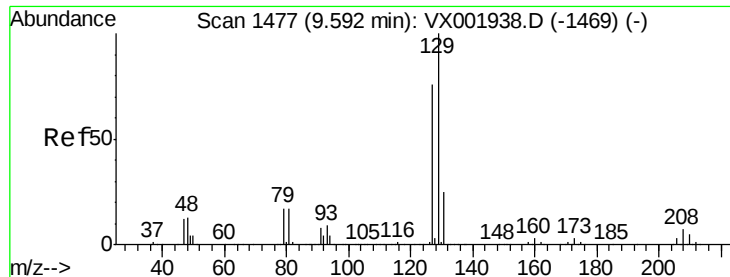
100 63.1 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 0.86 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

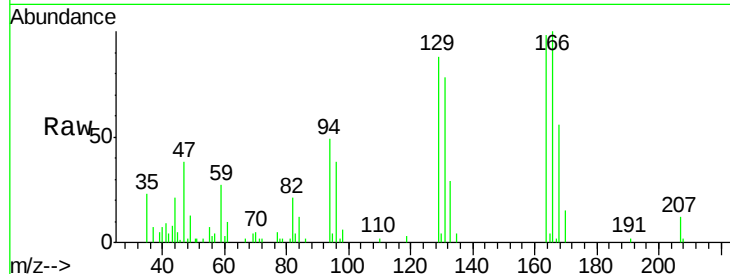
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 4604

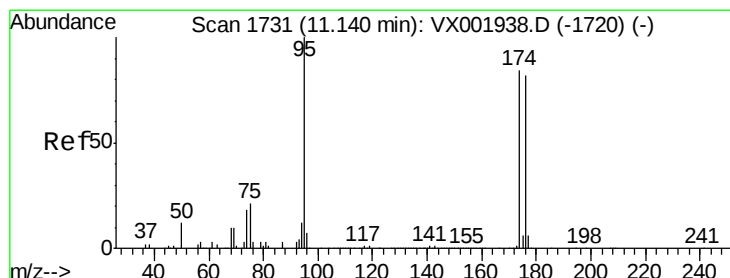
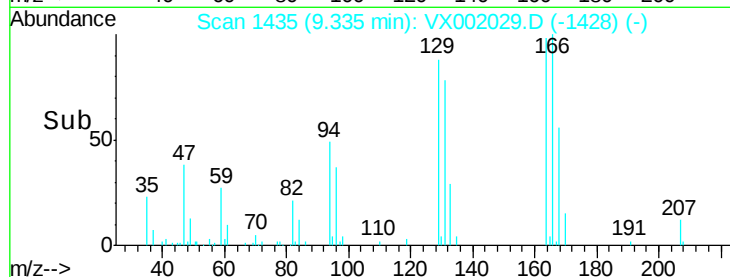
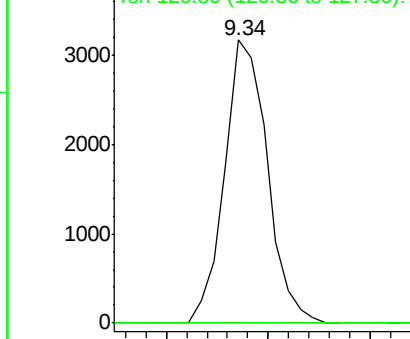
Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.9#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 40.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

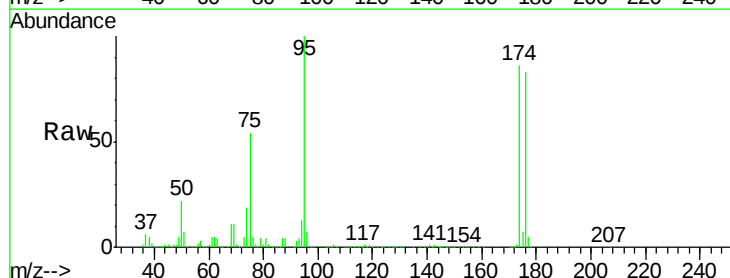
Tgt Ion: 95 Resp: 237553

Ion Ratio Lower Upper

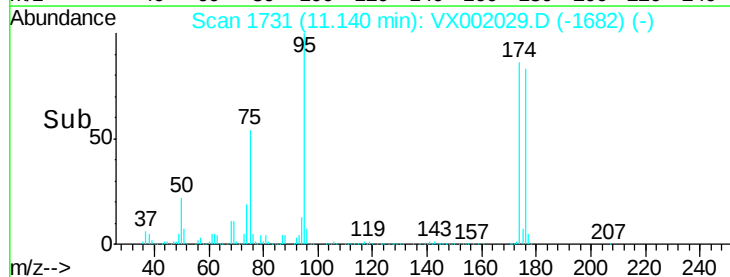
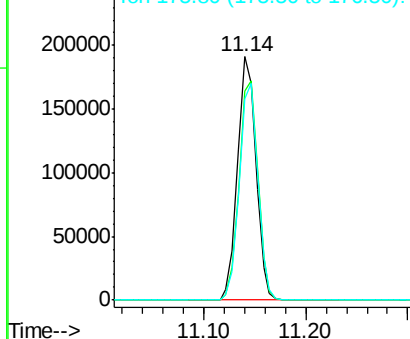
95 100

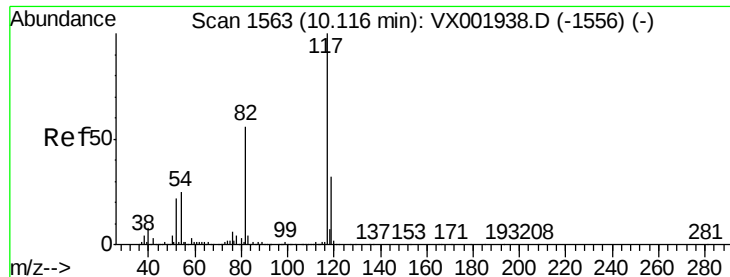
174 91.9 0.0 178.8

176 89.7 0.0 175.6



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

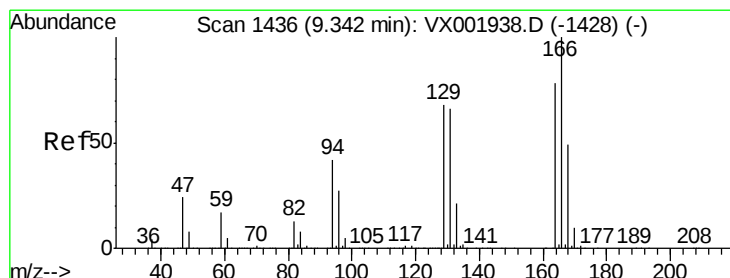
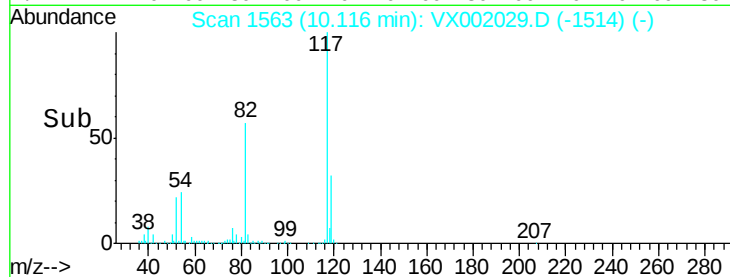
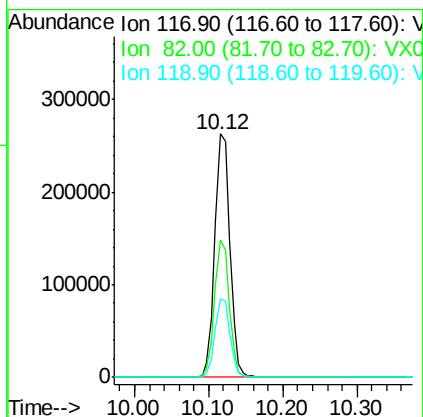
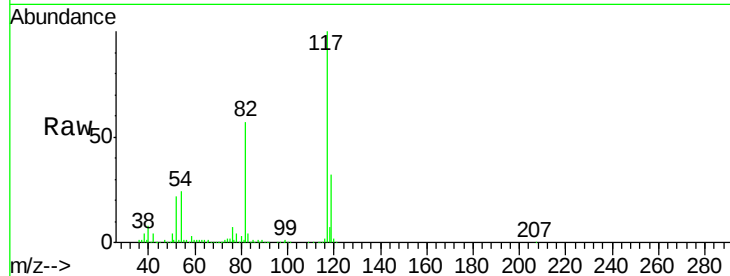




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

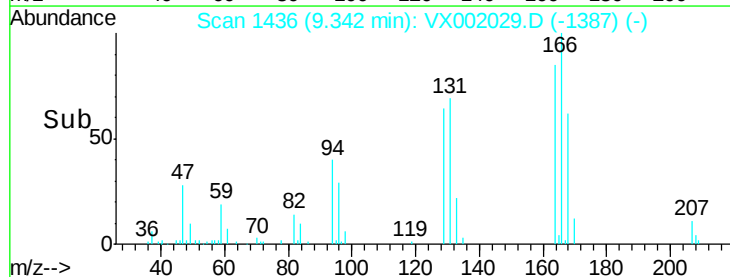
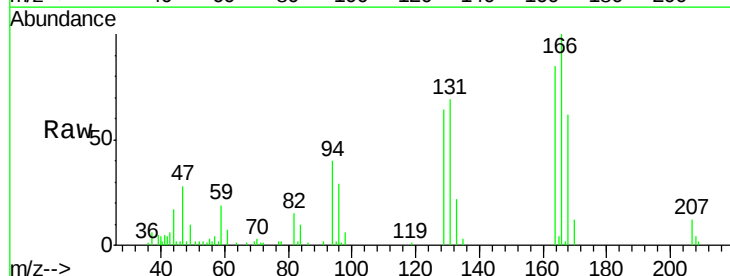
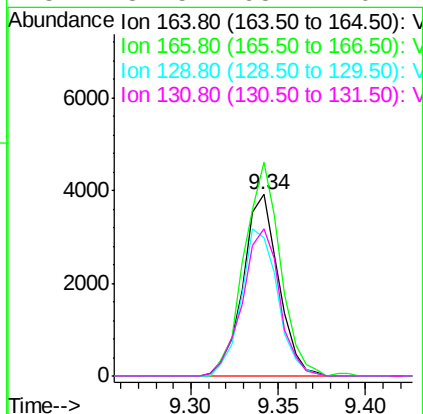
Instrument :
MSVOA_X
ClientSampleId :

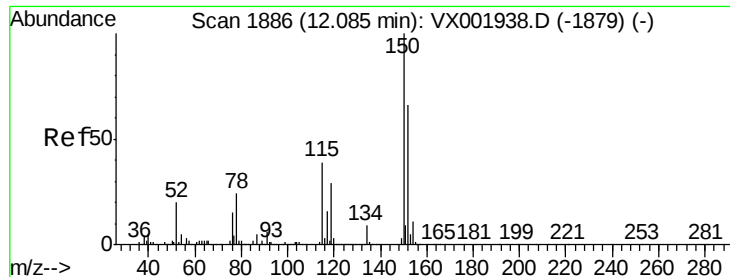
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.8	67.2
119	32.1	25.5	38.3



#64
Tetrachloroethene
Concen: 1.05 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.8	102.7	154.1
129	75.9	70.3	105.5
131	81.5	68.2	102.4



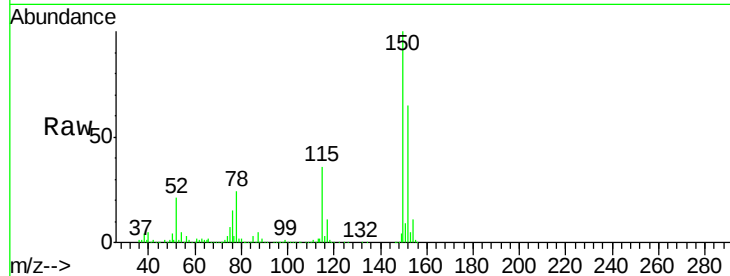


#72

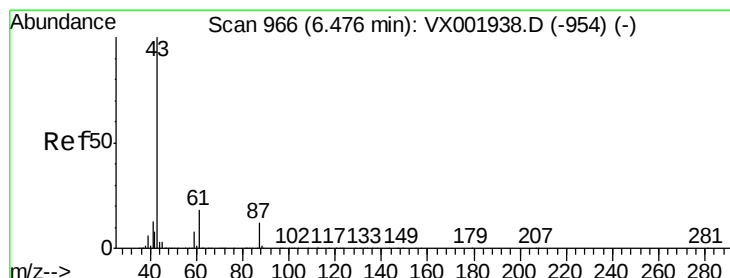
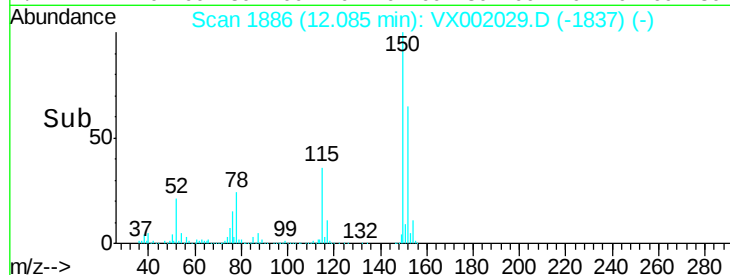
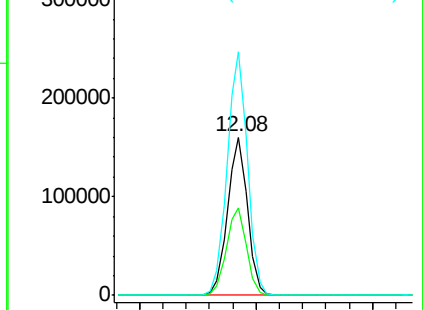
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.1	42.3	126.8
150	157.0	0.0	351.0



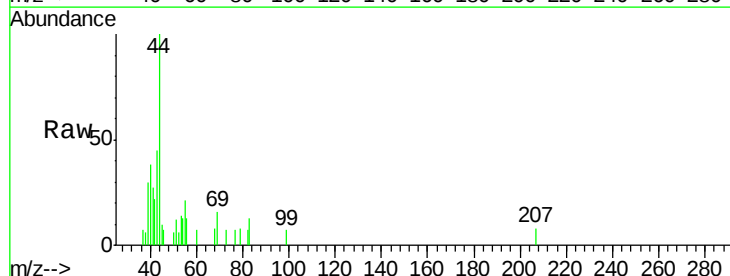
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



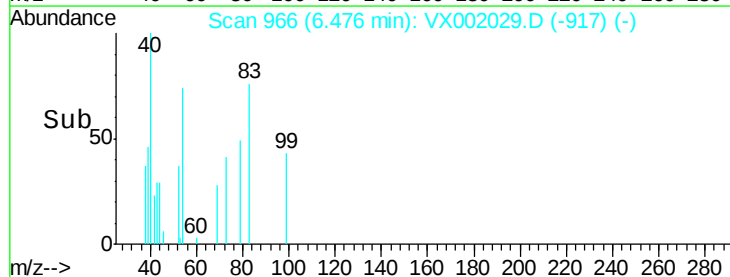
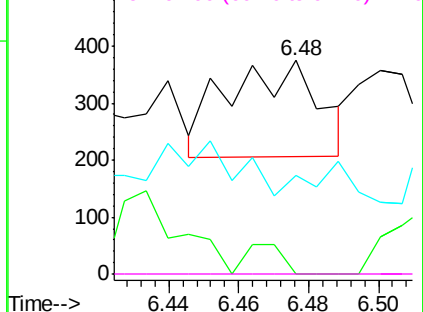
#74

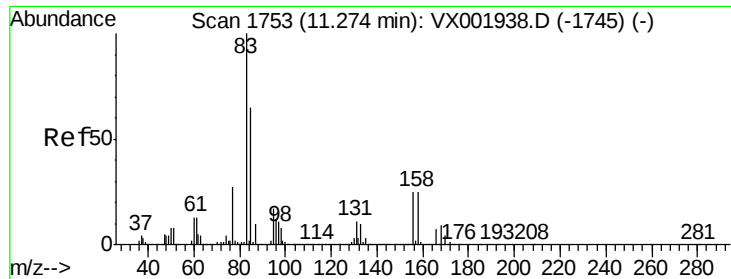
N-ethyl acetate
Concen: Below Cal
RT: 6.48 min Scan# 966
Delta R.T. 0.00 min
Lab File: VX002029.D
Acq: 26 May 2018 19:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	12.7	0.1	0.1#
55	0.0	0.1	0.1#
61	0.0	14.5	21.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.25 min Scan# 1749

Delta R.T. -0.02 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

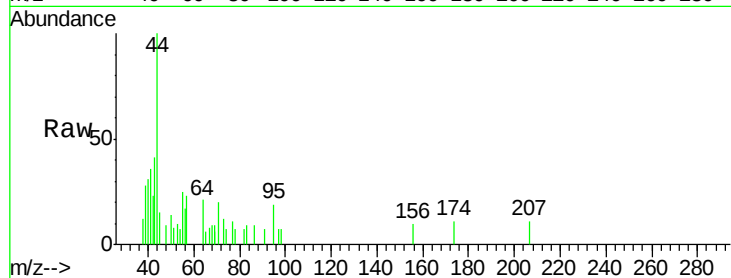
Tot Ion: 83 Resp: 57

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

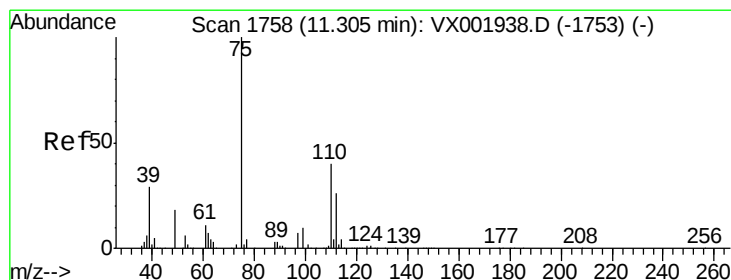
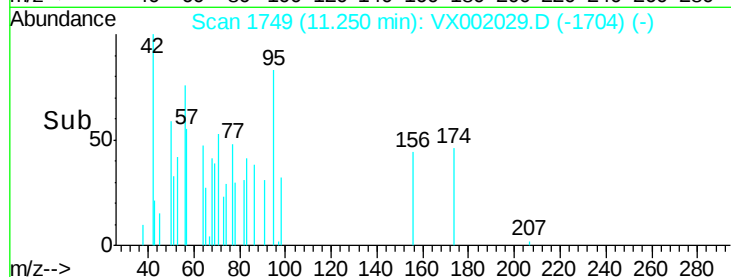
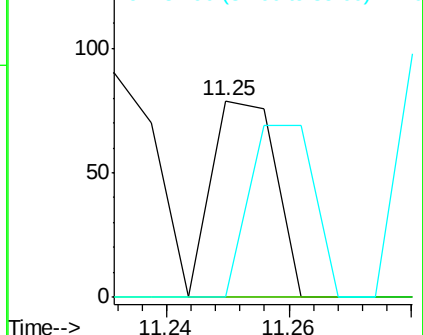
85 87.7 32.6 97.7



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 27.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002029.D

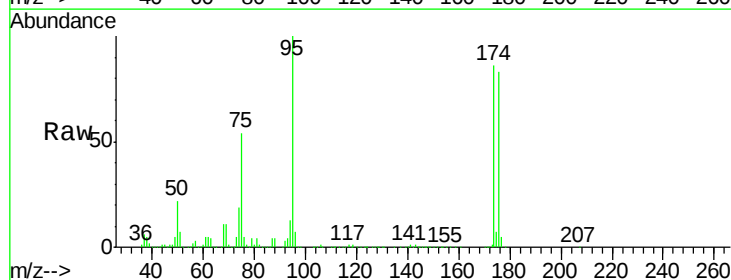
Acq: 26 May 2018 19:53

Tgt Ion: 75 Resp: 125012

Ion Ratio Lower Upper

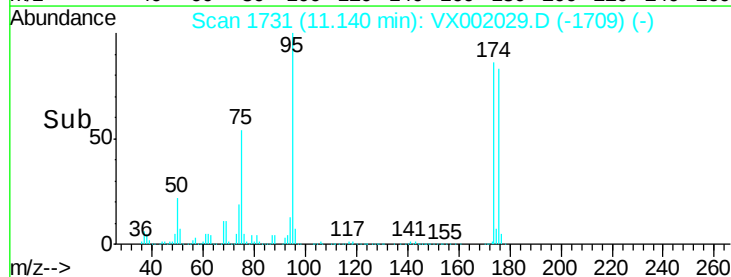
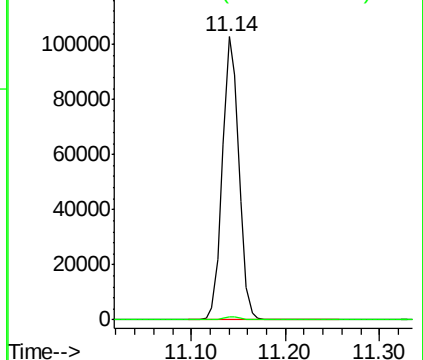
75 100

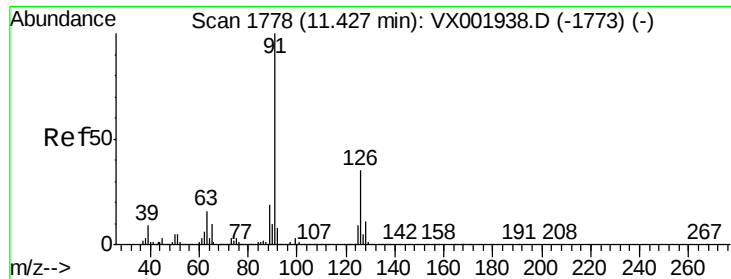
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1779

Delta R.T. 0.01 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

Instrument :

MSVOA_X

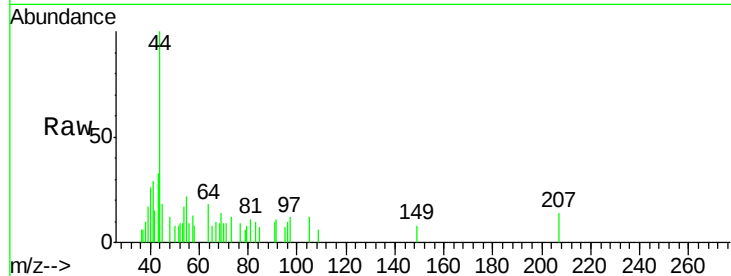
ClientSampled :

Tot Ion: 91 Resp: 410

Ion Ratio Lower Upper

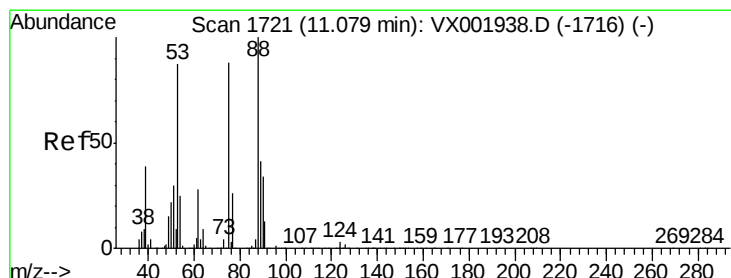
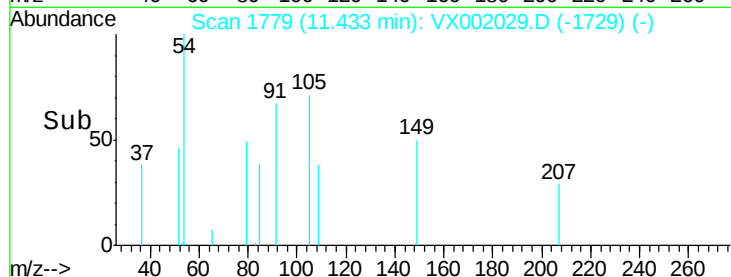
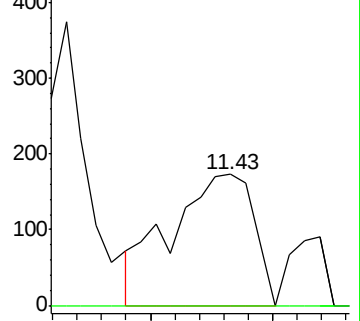
91 100

126 0.0 17.4 52.2#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002029.D

Acq: 26 May 2018 19:53

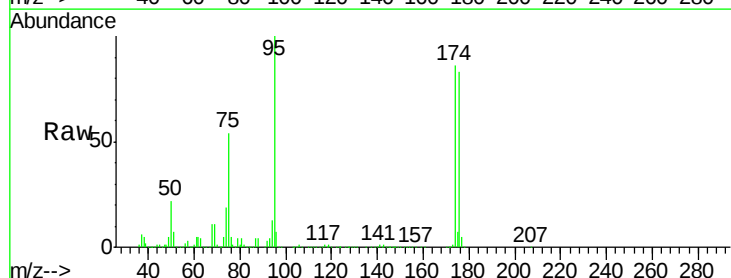
Tgt Ion: 75 Resp: 125012

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#



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

