

Data Path : W:\HPCHEM1\MSVOA X\DATA\WX052618\
 Data File : VX002034.D
 Acq On : 26 May 2018 22:06
 Operator : JC/MD
 Sample : J3118-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 28 00:37:05 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	315912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	442380	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	395090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	215397	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	268031	47.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.92%	
35) Dibromofluoromethane	5.51	113	207334	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
50) Toluene-d8	8.72	98	786928	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.14	95	278316	44.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.82%	

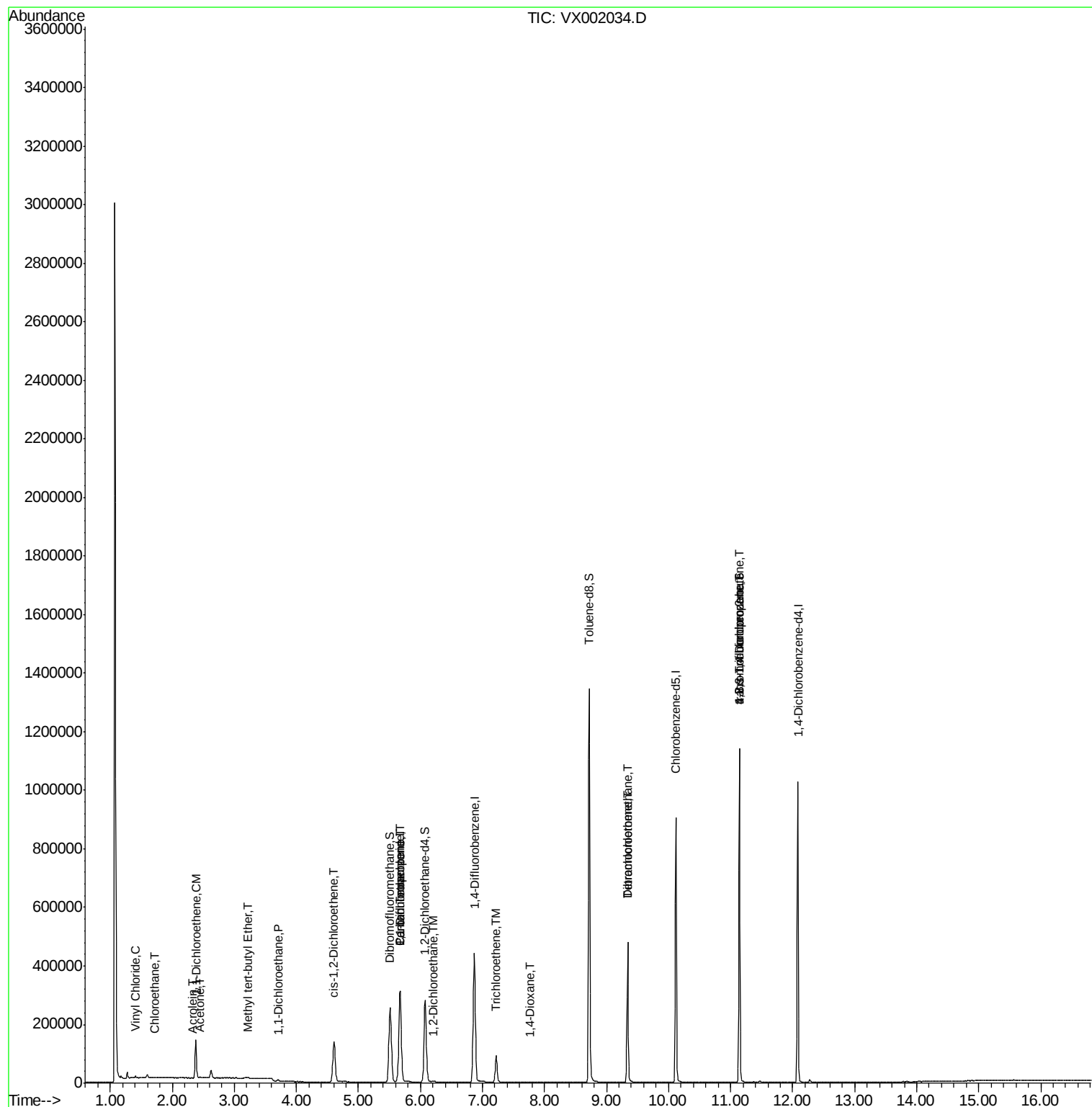
Target Compounds			Qvalue				
2) Dichlorodifluoromethane	1.20	85	95	Below Cal	#	41	
4) Vinyl Chloride	1.41	62	2244	0.48	ug/l	#	88
5) Bromomethane	1.61	94	176	Below Cal	#	13	
6) Chloroethane	1.72	64	567	0.20	ug/l	#	43
12) 1,1-Dichloroethene	2.38	96	41275	11.21	ug/l		97
13) Acrolein	2.32	56	246	0.51	ug/l	#	67
16) Acetone	2.45	43	4006	1.84	ug/l	#	83
18) Methyl Acetate	2.79	43	412	Below Cal	#	34	
19) Methyl tert-butyl Ether	3.21	73	4016	0.29	ug/l		97
20) Methylene Chloride	2.83	84	176	Below Cal	#	36	
21) trans-1,2-Dichloroethene	3.17	96	977	Below Cal	#	66	
24) 1,1-Dichloroethane	3.70	63	5472	0.73	ug/l		93
27) cis-1,2-Dichloroethene	4.60	96	83996	17.49	ug/l		85
28) Bromochloromethane	5.03	49	23	Below Cal	#	14	
36) 1,1-Dichloropropene	5.67	75	22076	3.59	ug/l	#	52
38) Carbon Tetrachloride	5.67	117	28895	4.03	ug/l	#	14
41) Methacrylonitrile	5.07	41	187	Below Cal	#	83	
42) 1,2-Dichloroethane	6.21	62	3375	0.47	ug/l		78
44) Trichloroethene	7.22	130	34086	6.49	ug/l		95
49) 1,4-Dioxane	7.78	88	620	5.17	ug/l	#	43
60) Dibromochloromethane	9.34	129	84702	14.92	ug/l	#	11
64) Tetrachloroethene	9.34	164	95102	16.79	ug/l		99
74) N-amyl acetate	6.48	43	278	Below Cal	#	59	
75) 1,1,2,2-Tetrachloroethane	11.27	83	100	Below Cal	#	25	
76) 1,2,3-Trichloropropane	11.14	75	147029	28.42	ug/l	#	33
79) 2-Chlorotoluene	11.43	91	182	Below Cal		84	
81) trans-1,4-Dichloro-2-buten	11.14	75	147029	68.30	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: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

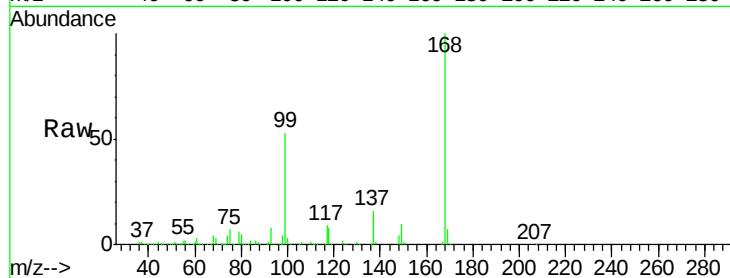
ClientSampleId :

Tot Ion:168 Resp: 315912

Ion Ratio Lower Upper

168 100

99 52.5 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

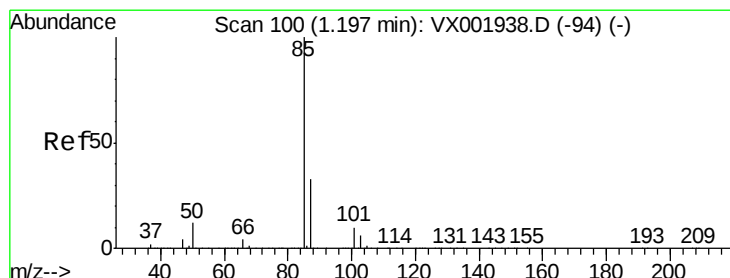
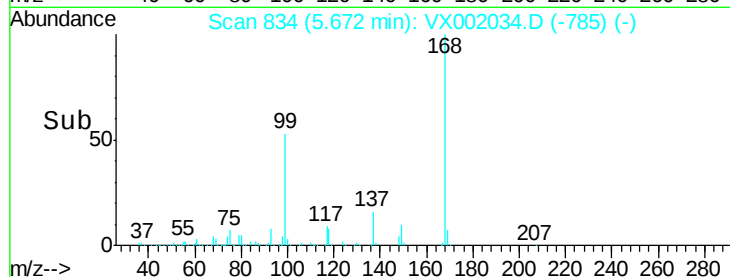
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002034.D

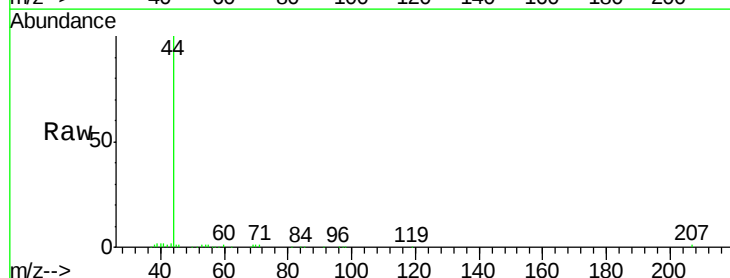
Acq: 26 May 2018 22:06

Tgt Ion: 85 Resp: 95

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

1.20

80

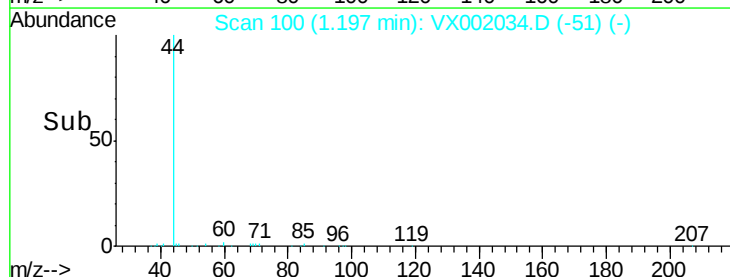
60

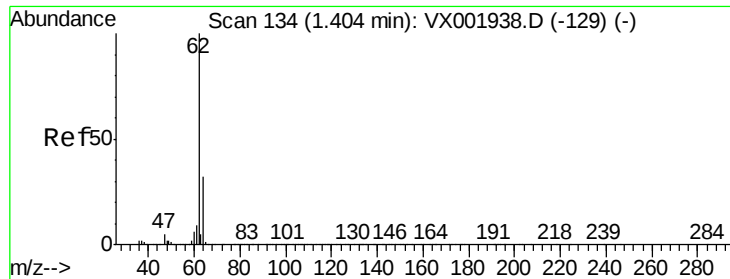
40

20

0

Time-->





#4

Vinyl Chloride

Concen: 0.48 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

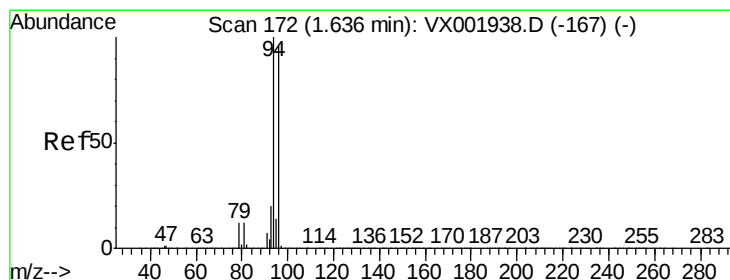
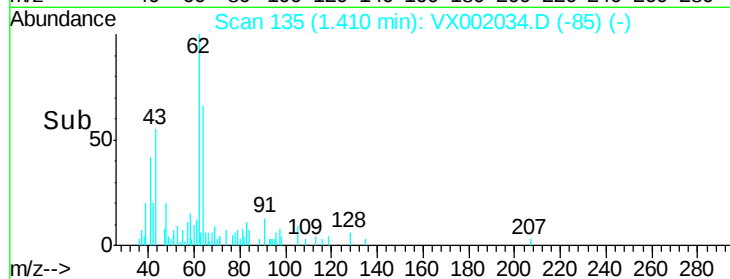
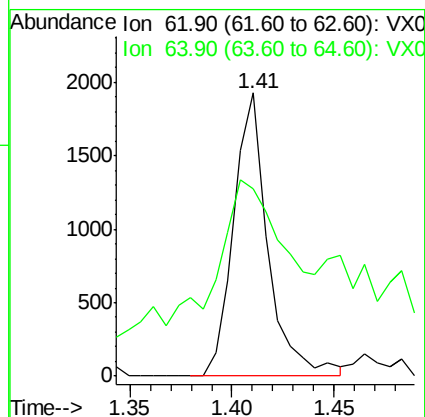
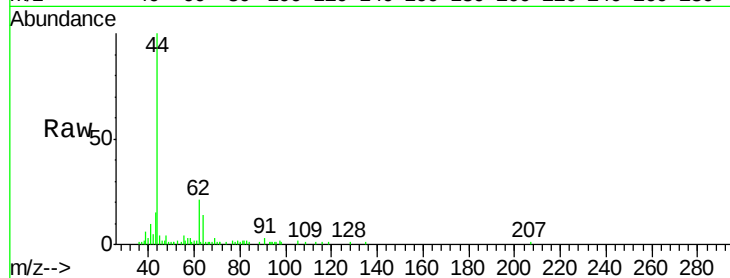
ClientSampled :

Tot Ion: 62 Resp: 2244

Ion Ratio Lower Upper

62 100

64 38.2 25.4 38.0#



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX002034.D

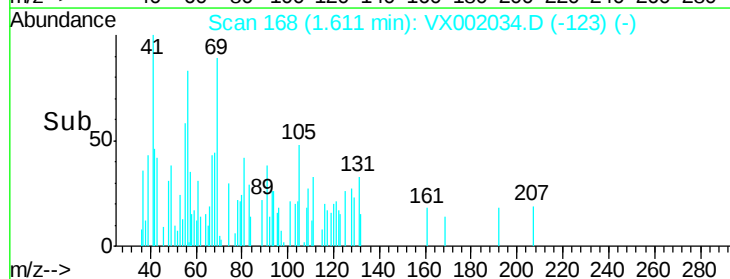
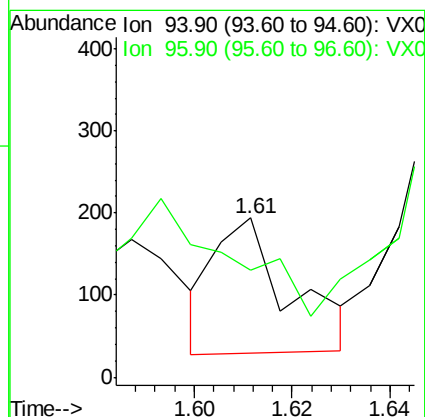
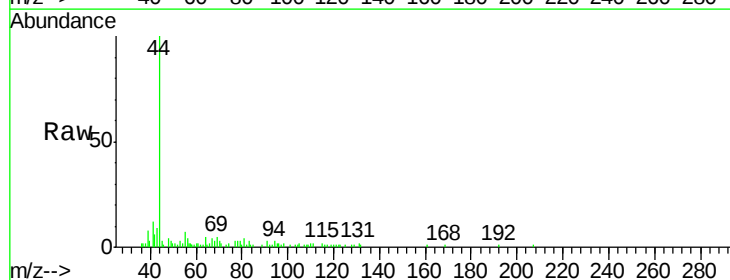
Acq: 26 May 2018 22:06

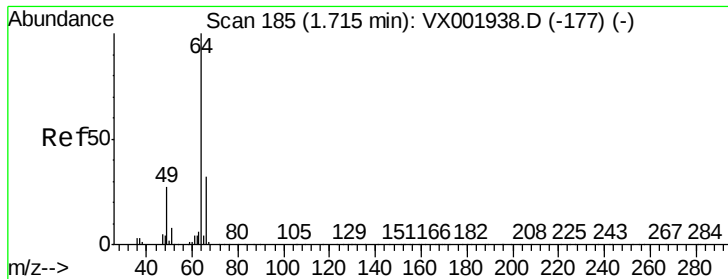
Tgt Ion: 94 Resp: 176

Ion Ratio Lower Upper

94 100

96 10.2 75.9 113.9#





#6

Chloroethane

Concen: 0.20 ug/l

RT: 1.72 min Scan# 185

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

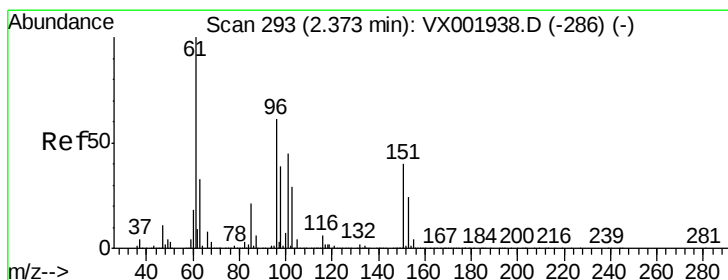
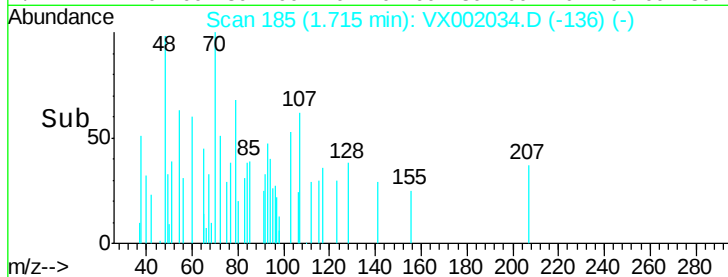
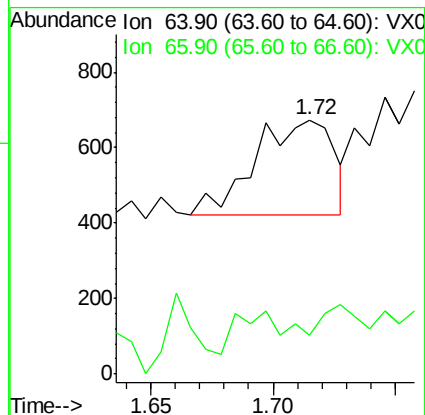
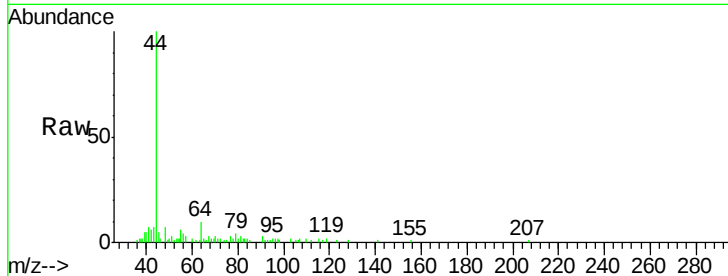
ClientSampled :

Tot Ion: 64 Resp: 567

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#12

1,1-Dichloroethene

Concen: 11.21 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

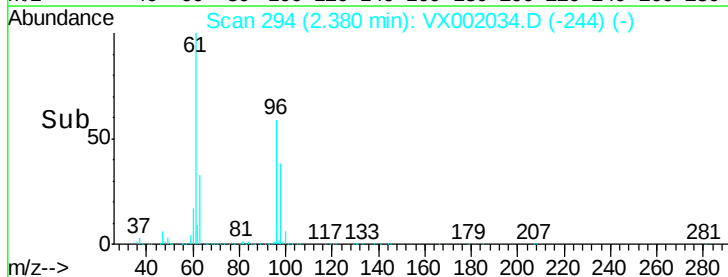
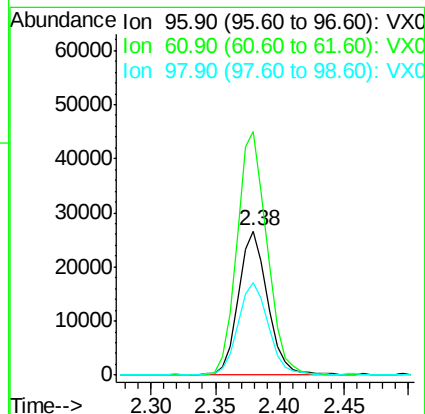
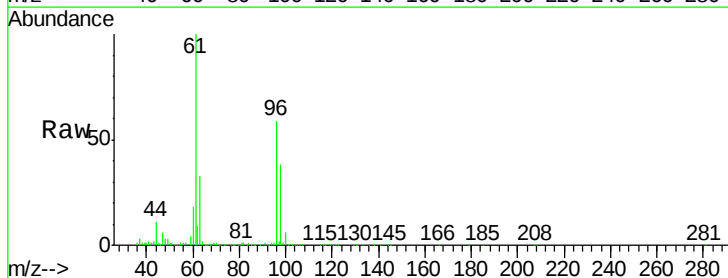
Tgt Ion: 96 Resp: 41275

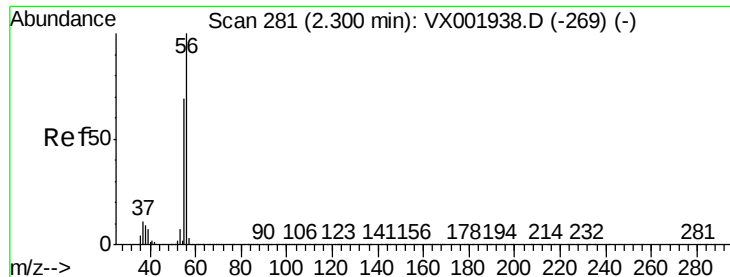
Ion Ratio Lower Upper

96 100

61 169.5 131.7 197.5

98 63.9 51.6 77.4





#13

Acrolein

Concen: 0.51 ug/l

RT: 2.32 min Scan# 284

Delta R.T. 0.02 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

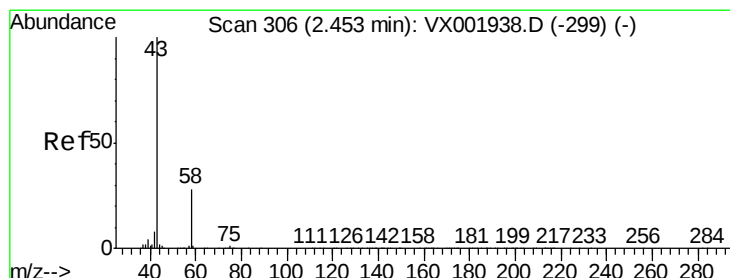
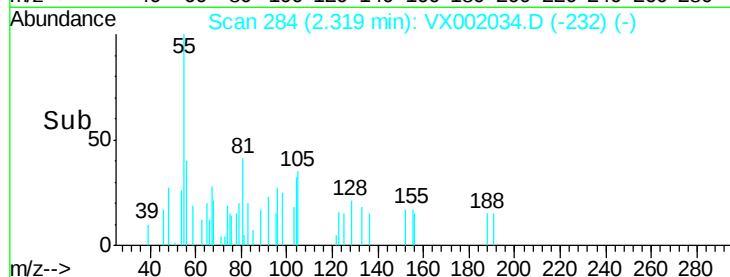
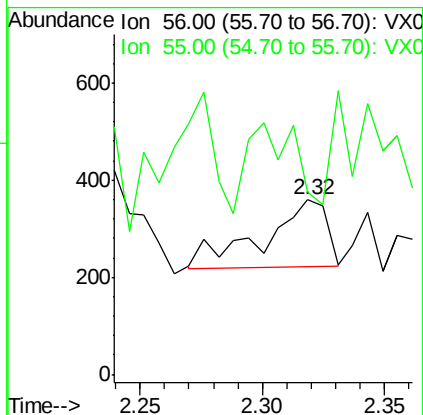
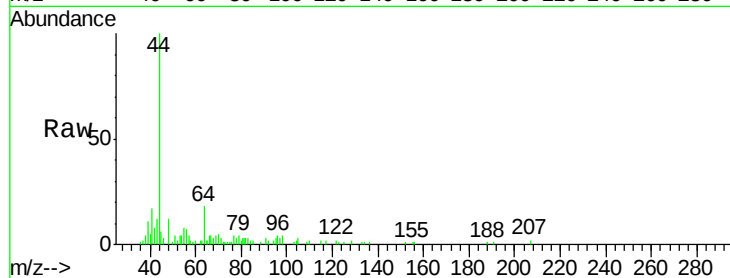
ClientSampled :

Tot Ion: 56 Resp: 246

Ion Ratio Lower Upper

56 100

55 43.5 56.8 85.2#



#16

Acetone

Concen: 1.84 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002034.D

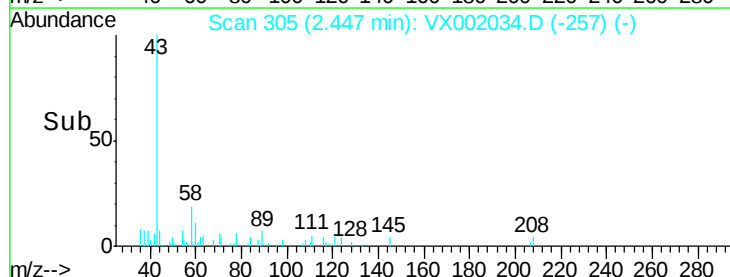
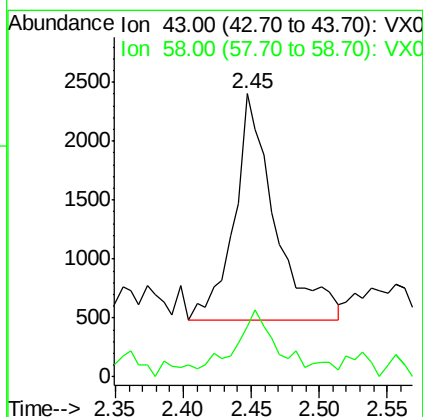
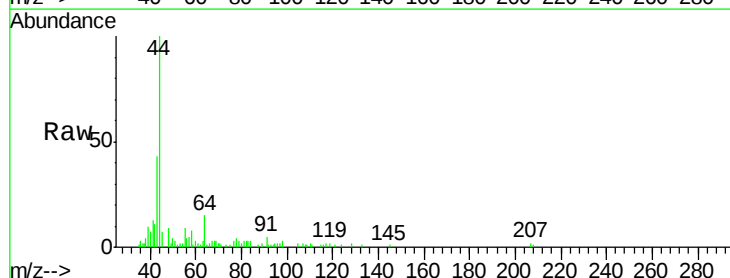
Acq: 26 May 2018 22:06

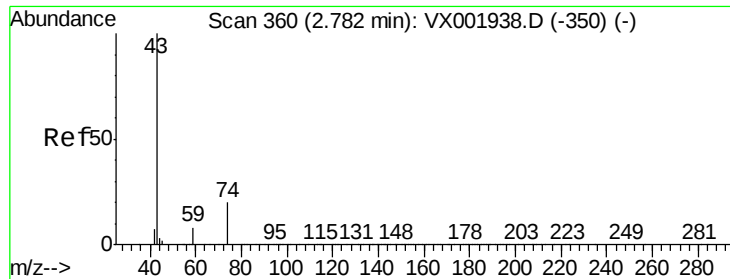
Tgt Ion: 43 Resp: 4006

Ion Ratio Lower Upper

43 100

58 19.1 22.3 33.5#





#18

Methyl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

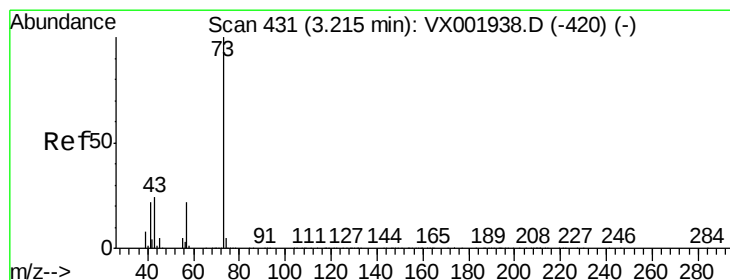
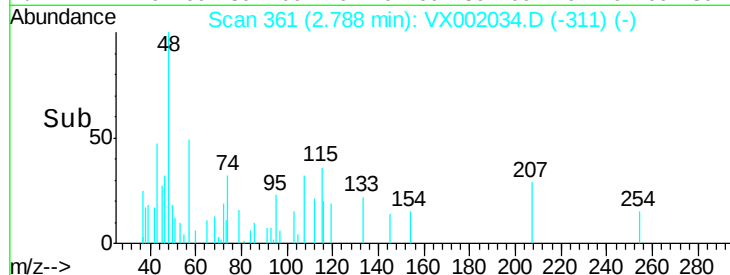
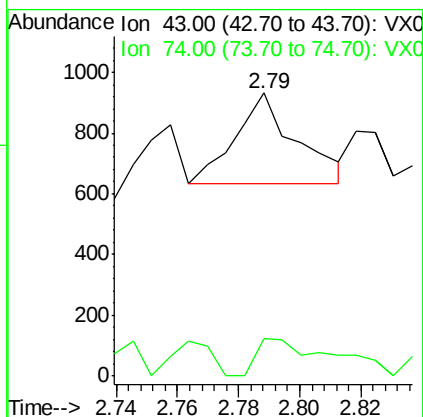
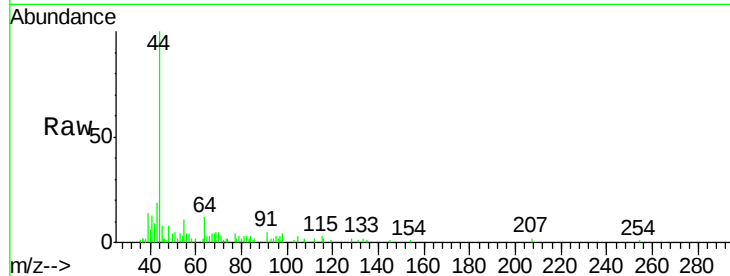
ClientSampleId :

Tot Ion: 43 Resp: 412

Ion Ratio Lower Upper

43 100

74 51.7 16.8 25.2#



#19

Methyl tert-butyl Ether

Concen: 0.29 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.01 min

Lab File: VX002034.D

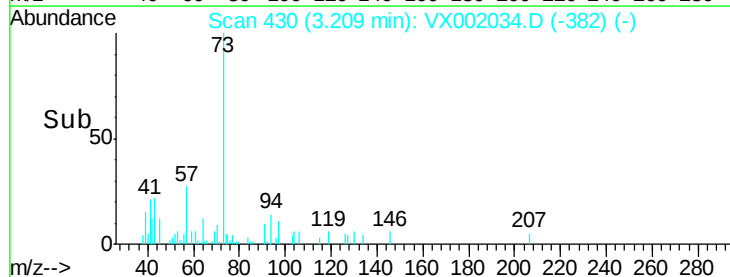
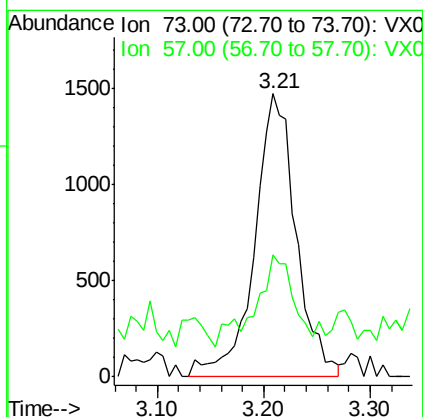
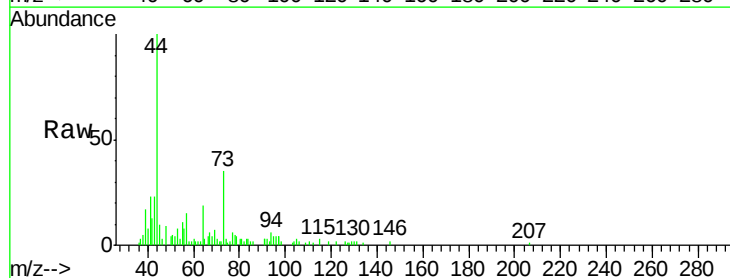
Acq: 26 May 2018 22:06

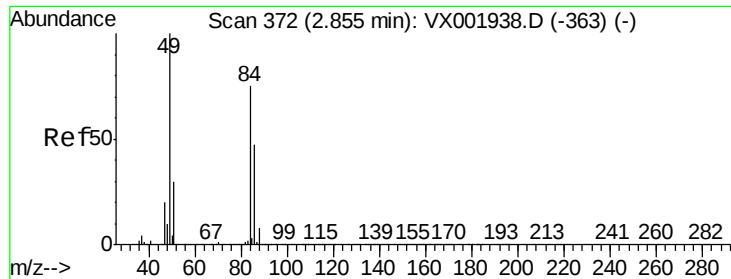
Tgt Ion: 73 Resp: 4016

Ion Ratio Lower Upper

73 100

57 23.1 17.4 26.0

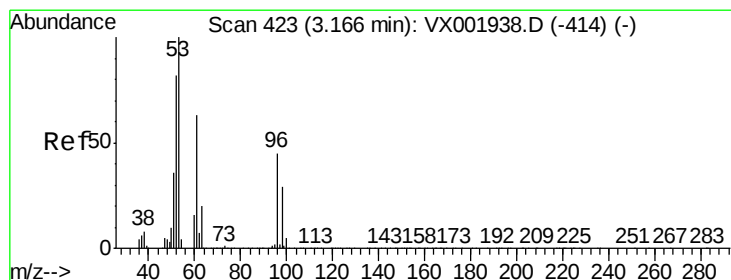
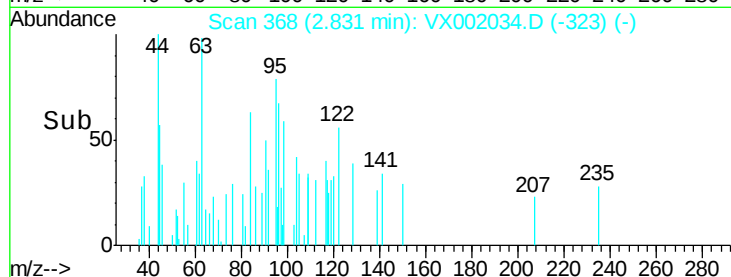
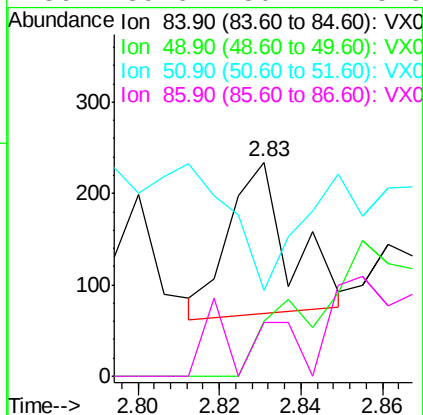
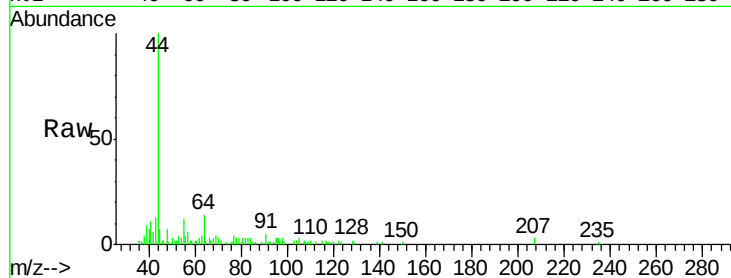




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 368
Delta R.T. -0.02 min
Lab File: VX002034.D
Acq: 26 May 2018 22:06

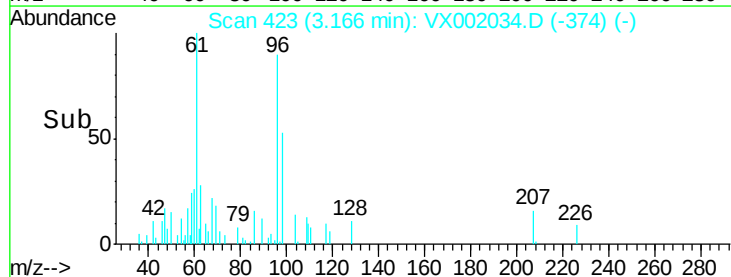
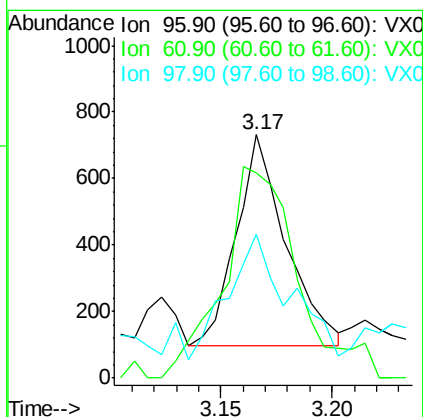
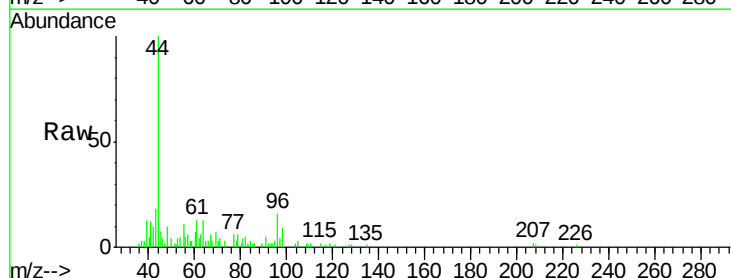
Instrument :
MSVOA_X
ClientSampled :

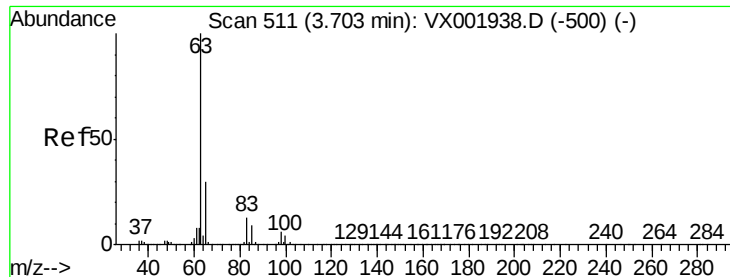
Tot Ion: 84 Resp: 176
Ion Ratio Lower Upper
84 100
49 40.3 107.2 160.8#
51 0.0 32.4 48.6#
86 39.6 50.4 75.6#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX002034.D
Acq: 26 May 2018 22:06

Tgt Ion: 96 Resp: 977
Ion Ratio Lower Upper
96 100
61 83.9 113.3 169.9#
98 59.4 51.7 77.5





#24

1,1-Dichloroethane

Concen: 0.73 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.01 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

ClientSampleId :

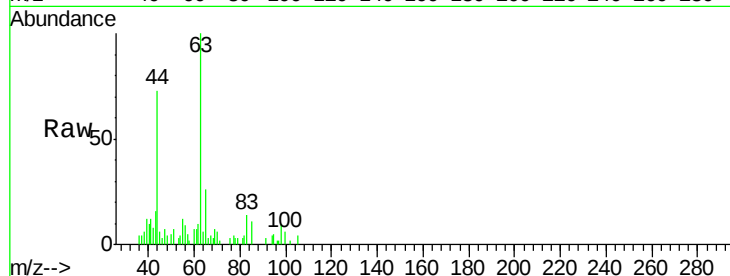
Tot Ion: 63 Resp: 5472

Ion Ratio Lower Upper

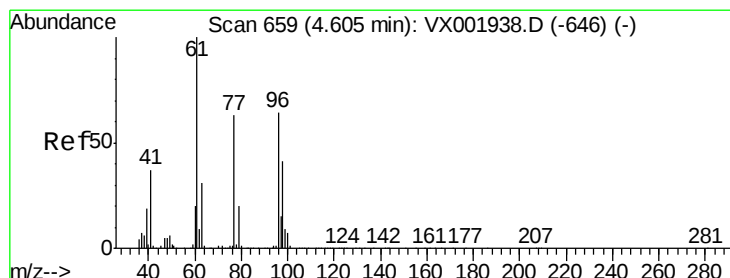
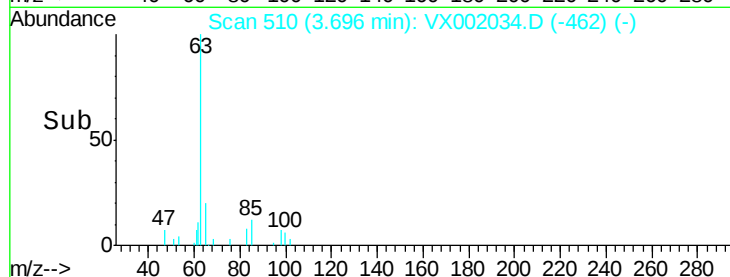
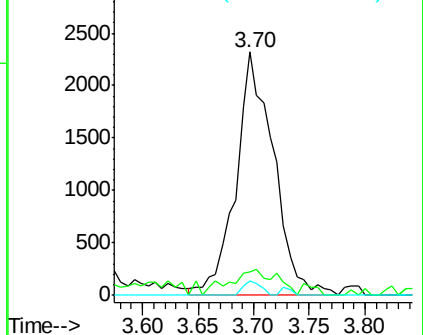
63 100

98 9.6 3.3 9.8

100 5.9 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 17.49 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

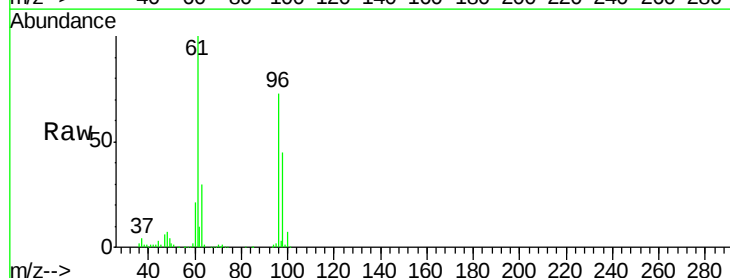
Tgt Ion: 96 Resp: 83996

Ion Ratio Lower Upper

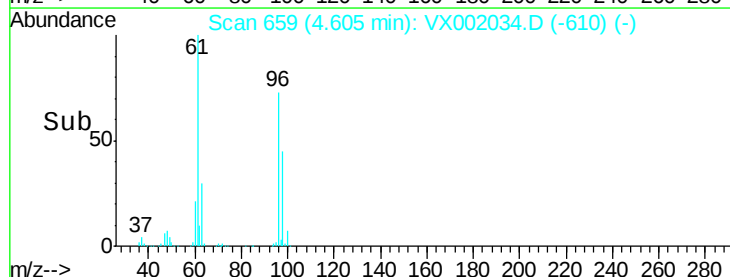
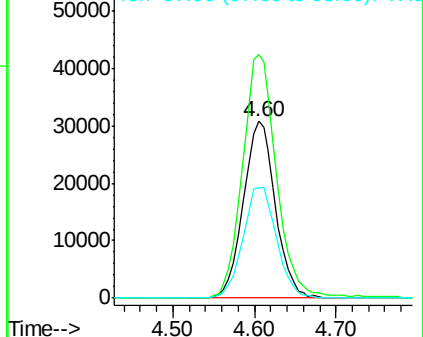
96 100

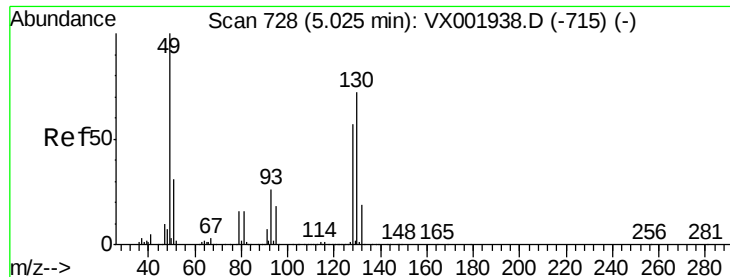
61 146.0 0.0 348.4

98 66.0 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

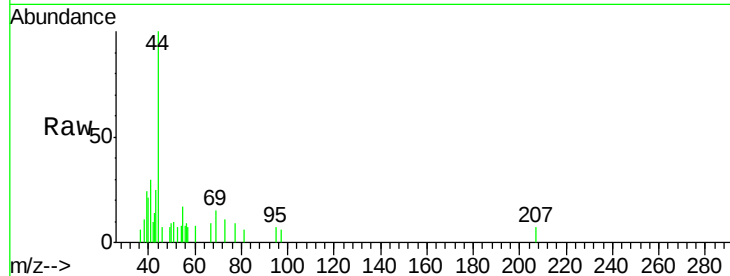
Delta R.T. 0.01 min

Lab File: VX002034.D

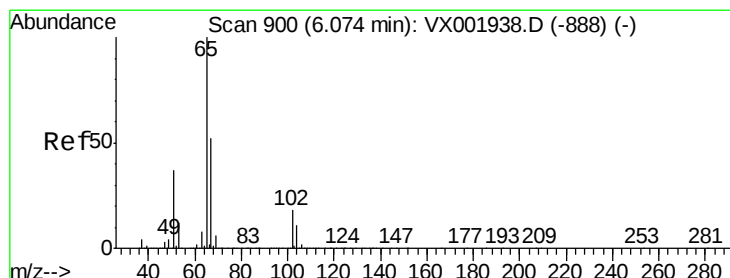
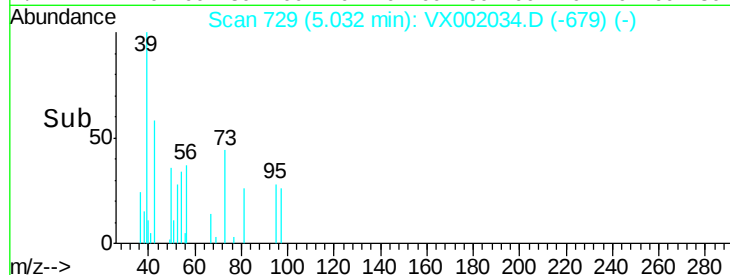
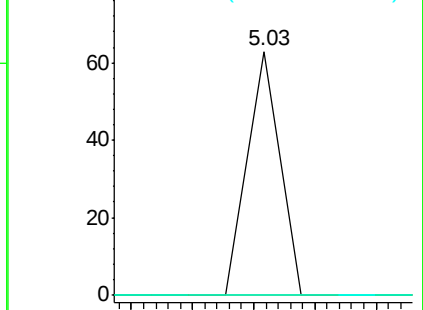
Acq: 26 May 2018 22:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 23
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 59.4 89.2#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 47.46 ug/l

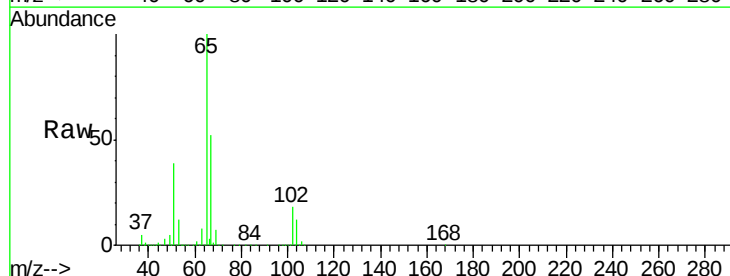
RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

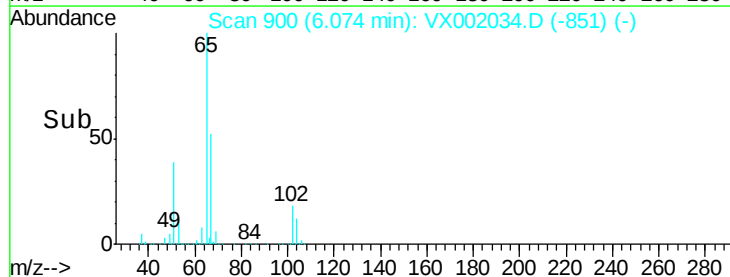
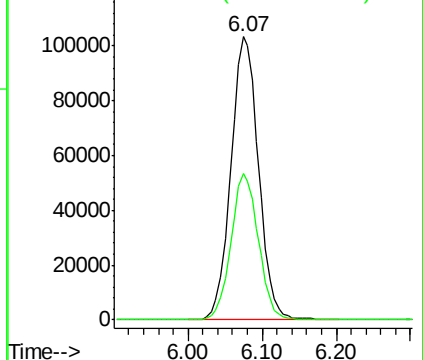
Lab File: VX002034.D

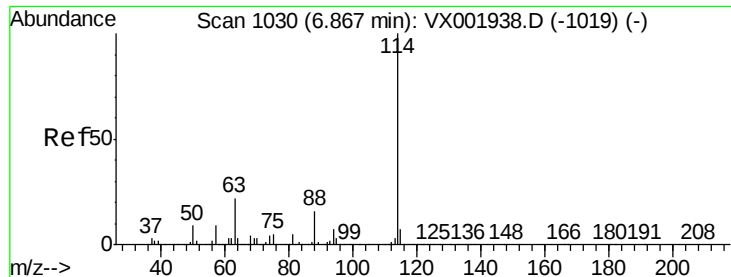
Acq: 26 May 2018 22:06

Tgt Ion: 65 Resp: 268031
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

ClientSampleId :

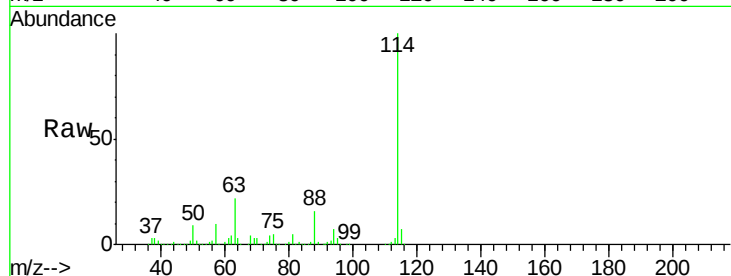
Tot Ion:114 Resp: 442380

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

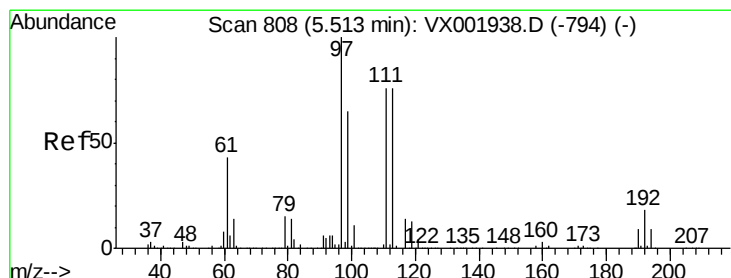
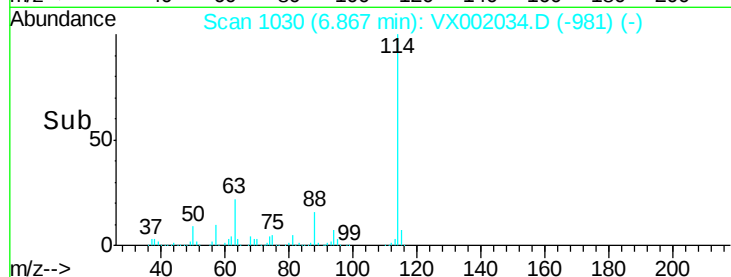
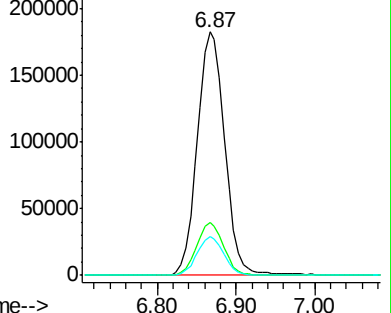
88 15.7 0.0 31.6



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: 46.87 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

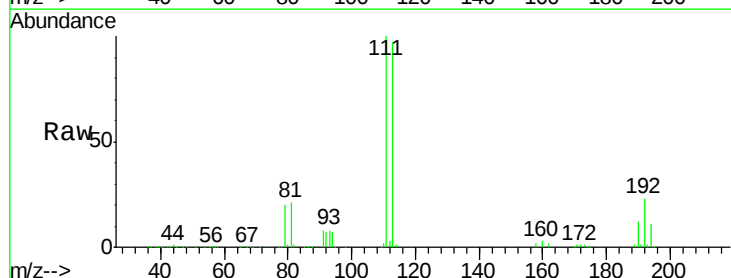
Tgt Ion:113 Resp: 207334

Ion Ratio Lower Upper

113 100

111 103.2 82.0 123.0

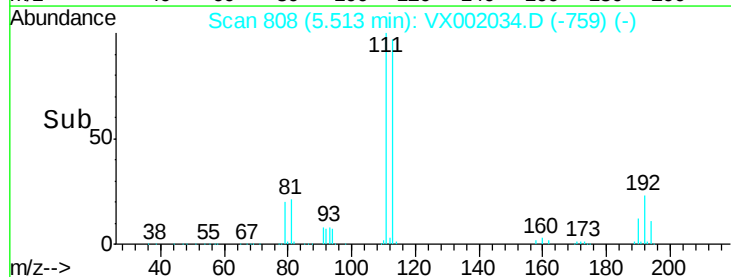
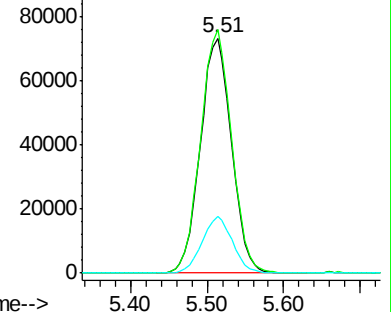
192 23.4 18.9 28.3

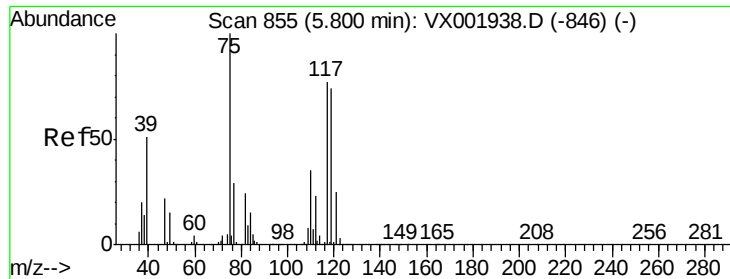


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

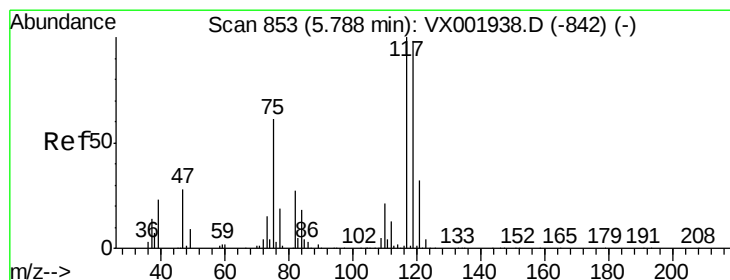
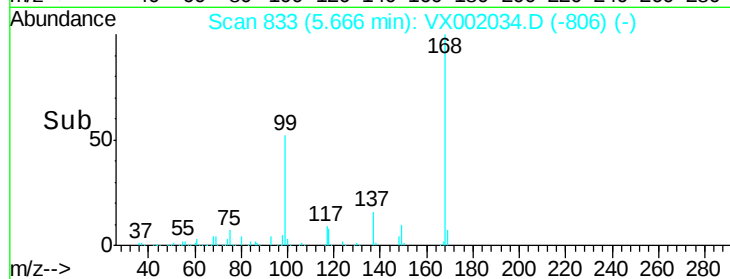
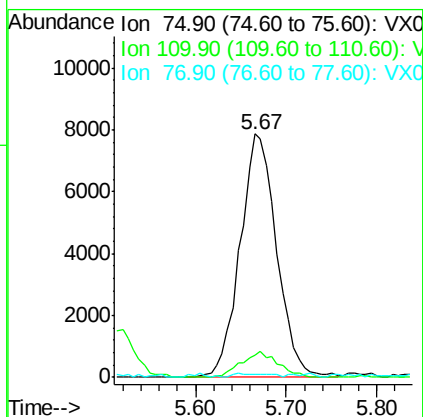
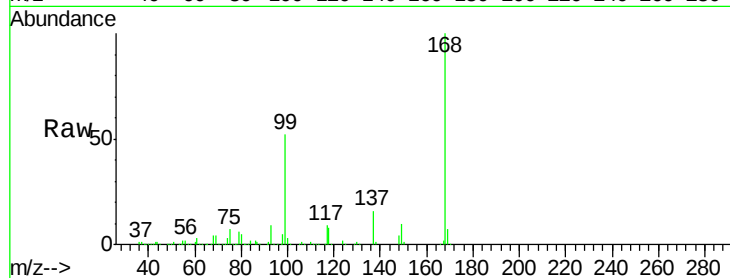




#36
 1,1-Dichloropropene
 Concen: 3.59 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002034.D
 Acq: 26 May 2018 22:06

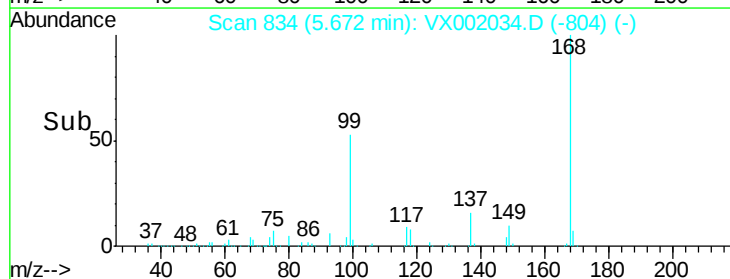
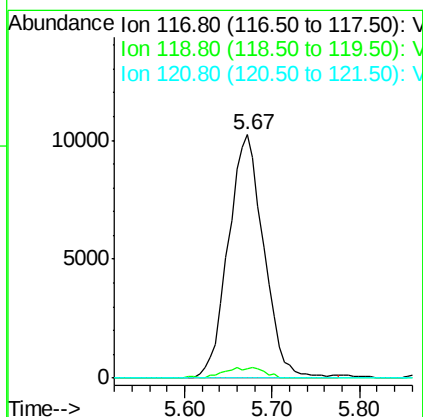
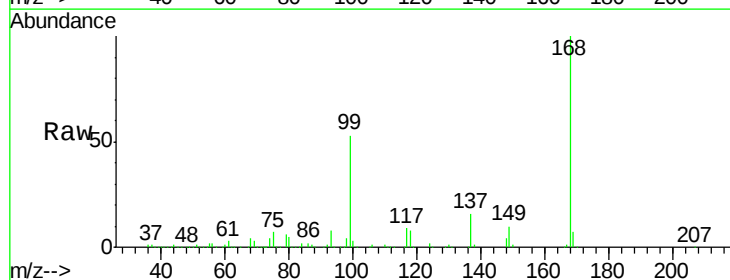
Instrument :
 MSVOA_X
 ClientSampled :

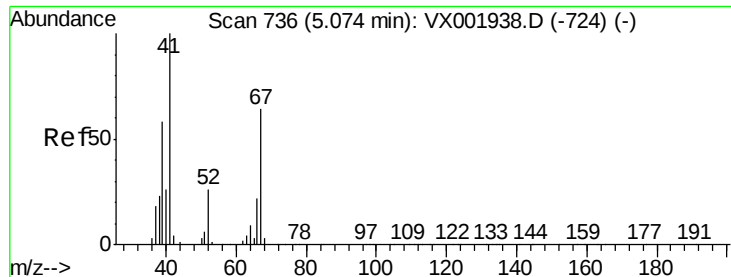
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.4	52.2#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.03 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002034.D
 Acq: 26 May 2018 22:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	78.5	117.7#
121	0.0	25.5	38.3#





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.07 min Scan# 736

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 41 Resp: 187

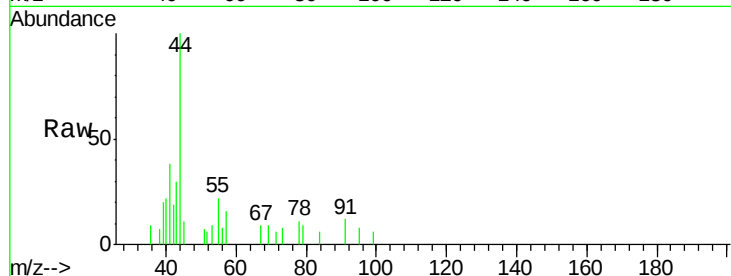
Ion Ratio Lower Upper

41 100

39 52.9 46.0 69.0

67 40.1 50.6 75.8#

52 20.9 21.9 32.9#

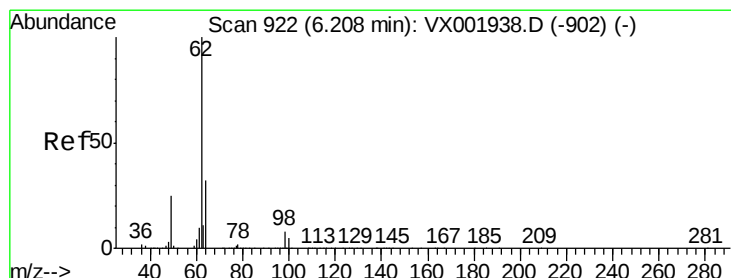
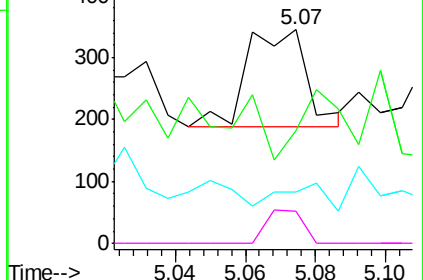
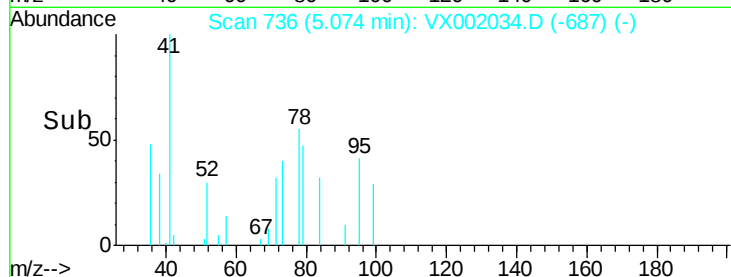


Abundance Ion 41.00 (40.70 to 41.70): VX0

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



#42

1,2-Dichloroethane

Concen: 0.47 ug/l

RT: 6.21 min Scan# 922

Delta R.T. 0.00 min

Lab File: VX002034.D

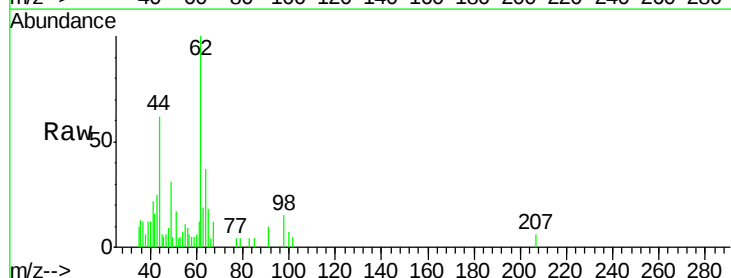
Acq: 26 May 2018 22:06

Tgt Ion: 62 Resp: 3375

Ion Ratio Lower Upper

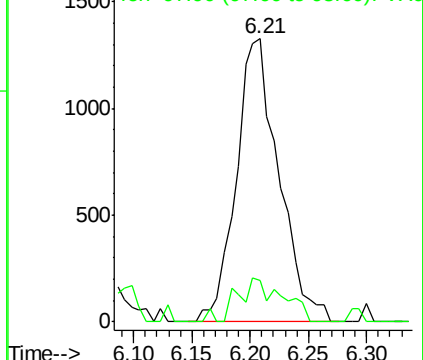
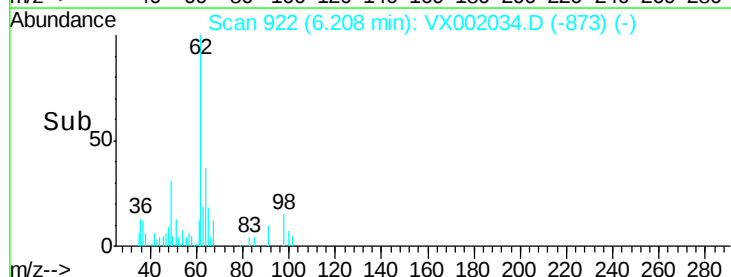
62 100

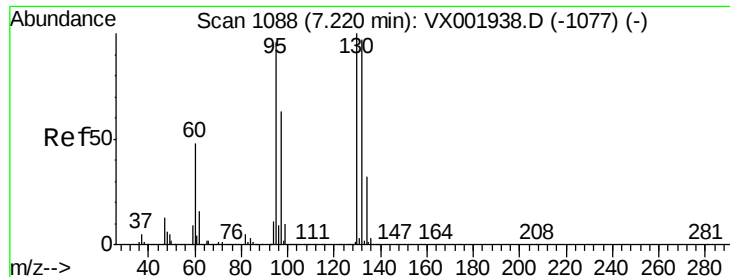
98 16.4 0.0 17.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 6.49 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

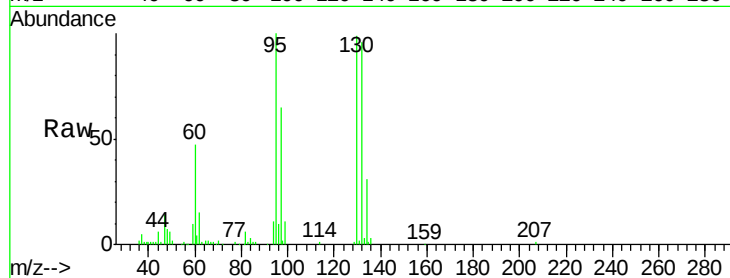
ClientSampleId :

Tot Ion:130 Resp: 34086

Ion Ratio Lower Upper

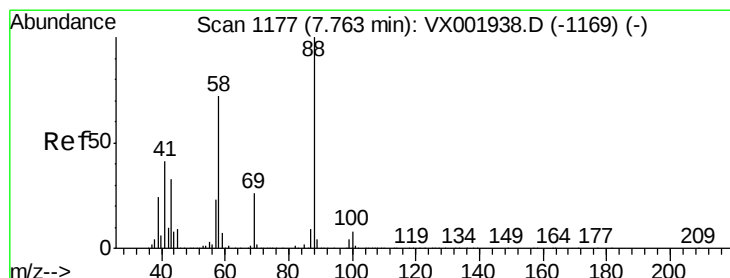
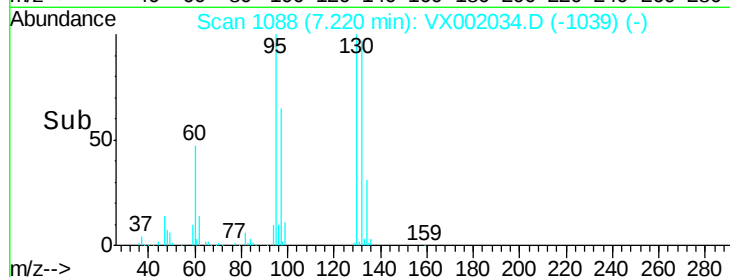
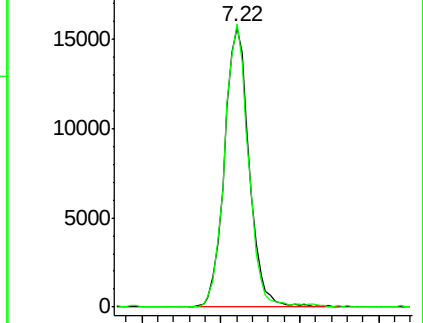
130 100

95 101.1 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 5.17 ug/l

RT: 7.78 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

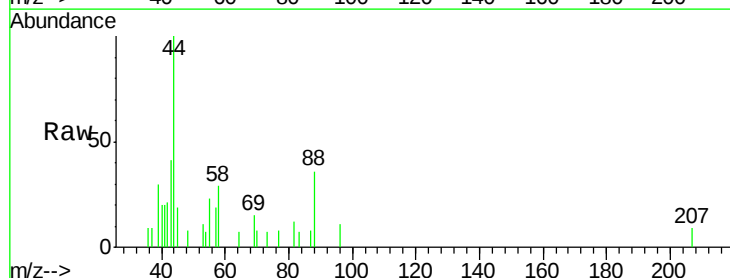
Tgt Ion: 88 Resp: 620

Ion Ratio Lower Upper

88 100

43 82.7 29.8 44.8#

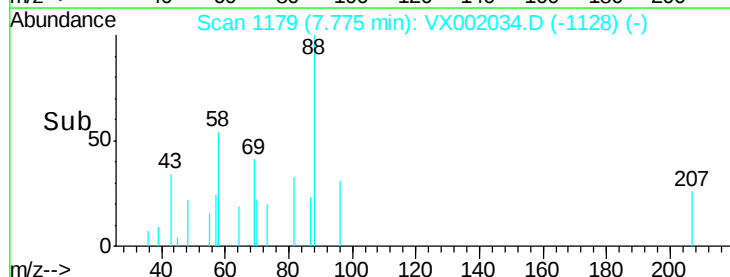
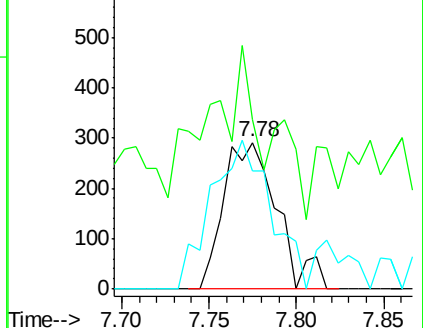
58 112.7 58.7 88.1#

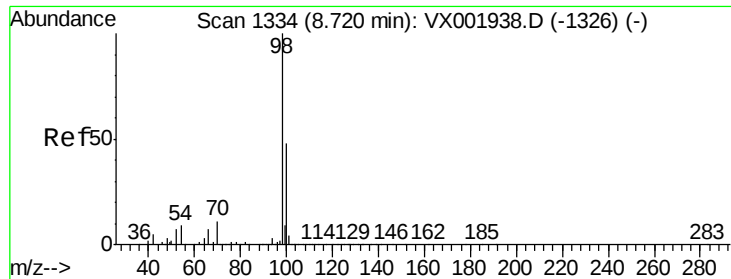


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

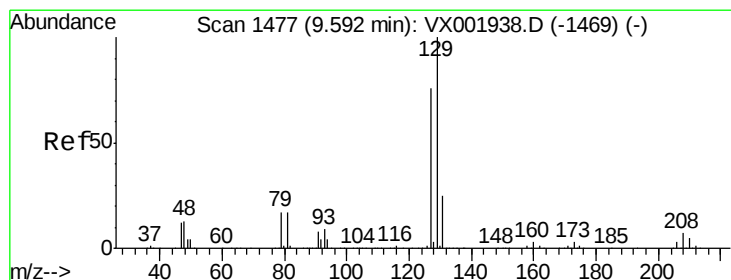
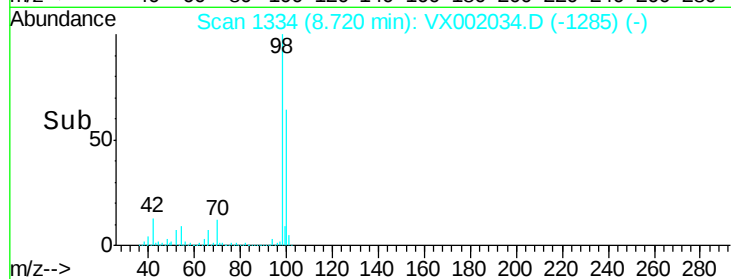
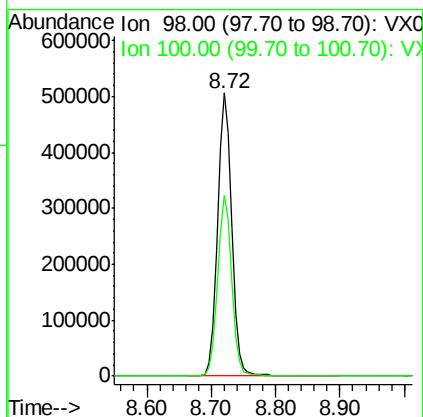
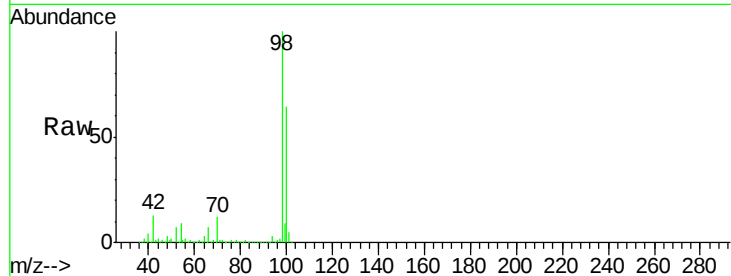




#50
Toluene-d8
Concen: 49.13 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002034.D
Acq: 26 May 2018 22:06

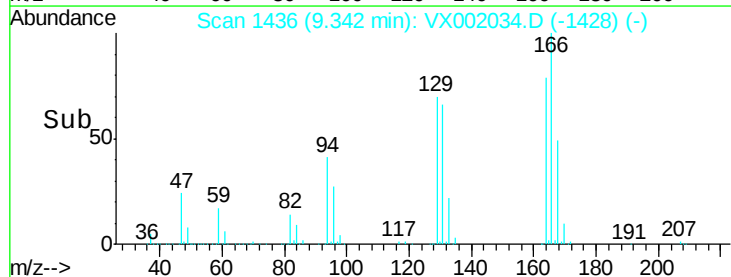
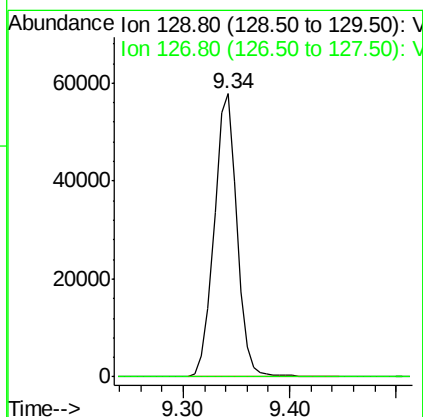
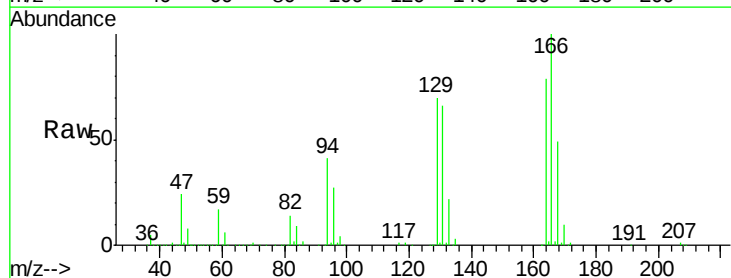
Instrument :
MSVOA_X
ClientSampleId :

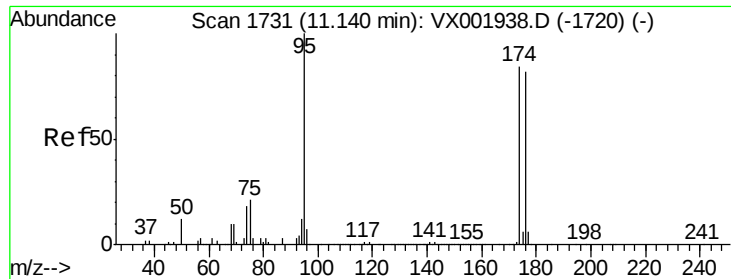
Tot Ion: 98 Resp: 786928
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3



#60
Dibromochloromethane
Concen: 14.92 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.25 min
Lab File: VX002034.D
Acq: 26 May 2018 22:06

Tgt Ion: 129 Resp: 84702
Ion Ratio Lower Upper
129 100
127 0.2 38.3 114.9#

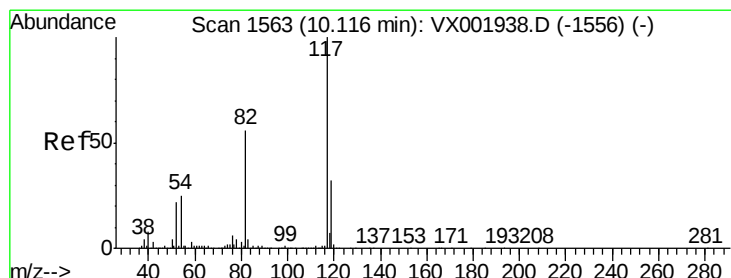
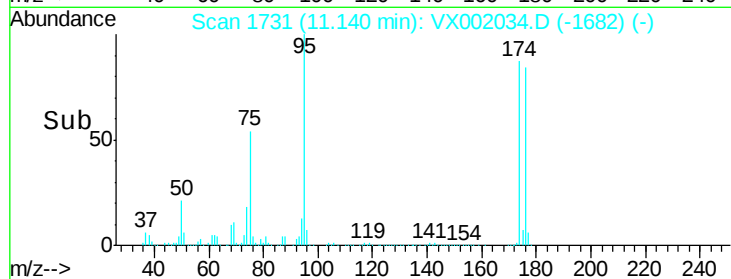
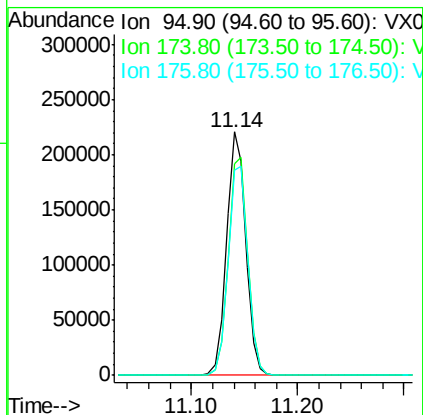
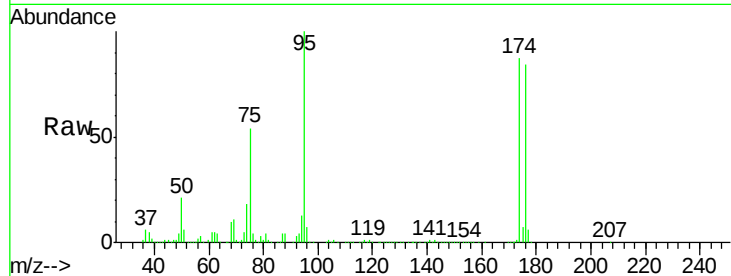




#62
4-Bromofluorobenzene
Concen: 44.41 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002034.D
Acq: 26 May 2018 22:06

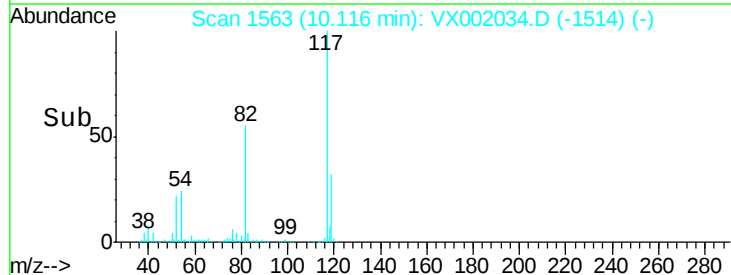
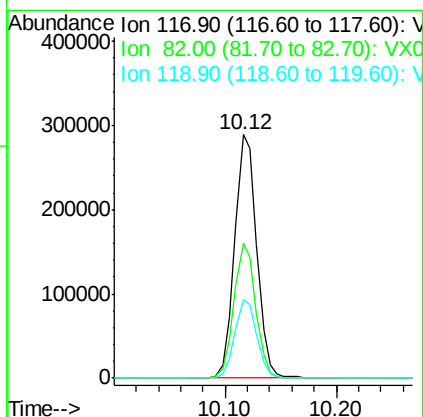
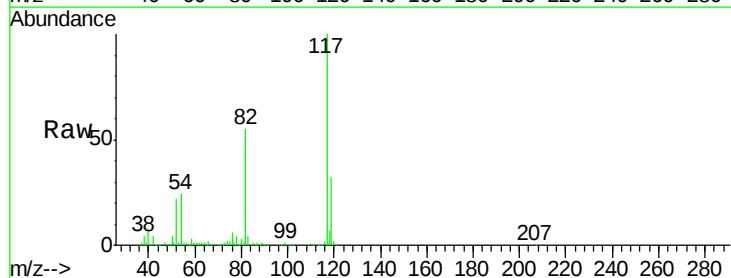
Instrument :
MSVOA_X
ClientSampleId :

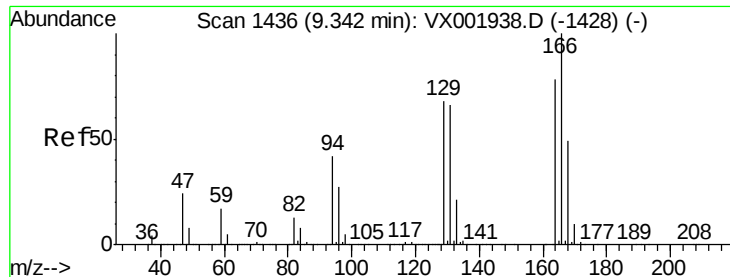
Tot Ion: 95 Resp: 278316
Ion Ratio Lower Upper
95 100
174 91.5 0.0 178.8
176 89.1 0.0 175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002034.D
Acq: 26 May 2018 22:06

Tgt Ion: 117 Resp: 395090
Ion Ratio Lower Upper
117 100
82 55.3 44.8 67.2
119 32.5 25.5 38.3





#64

Tetrachloroethene

Concen: 16.79 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 95102

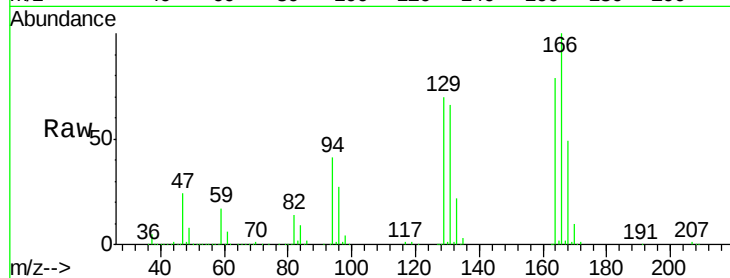
Ion Ratio Lower Upper

164 100

166 127.0 102.7 154.1

129 88.3 70.3 105.5

131 83.9 68.2 102.4

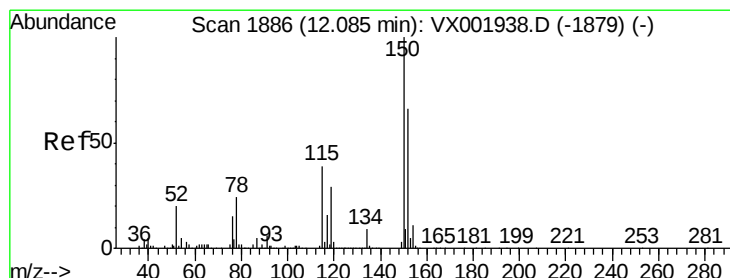
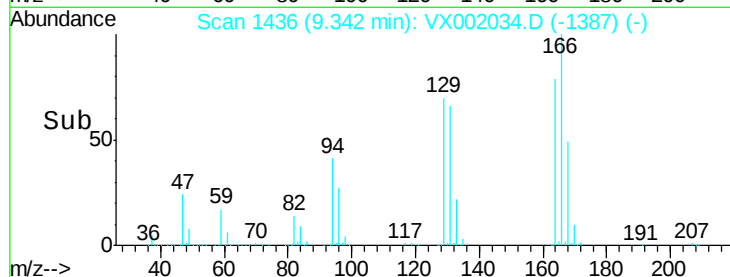
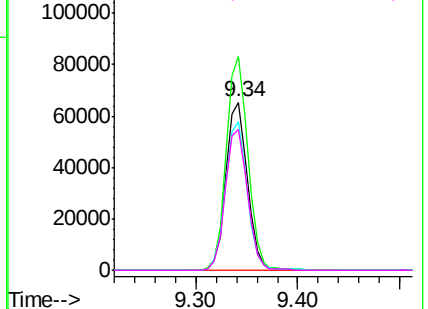


Abundance Ion 163.80 (163.50 to 164.50): V

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: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

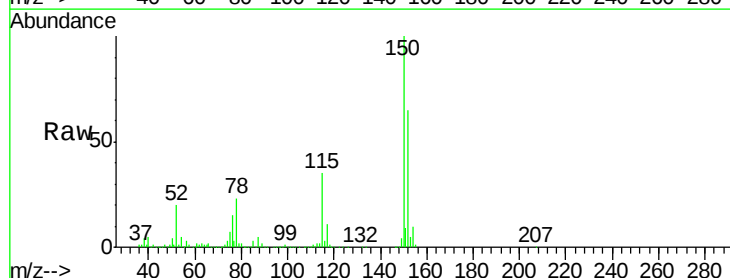
Tgt Ion:152 Resp: 215397

Ion Ratio Lower Upper

152 100

115 55.1 42.3 126.8

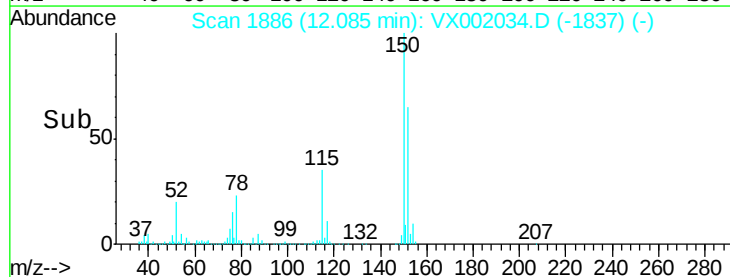
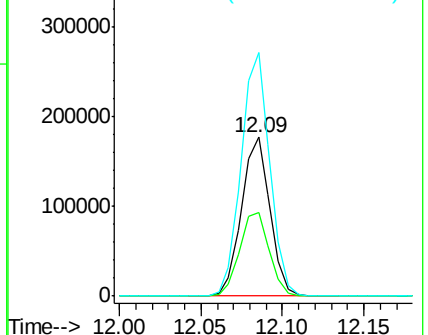
150 154.7 0.0 351.0

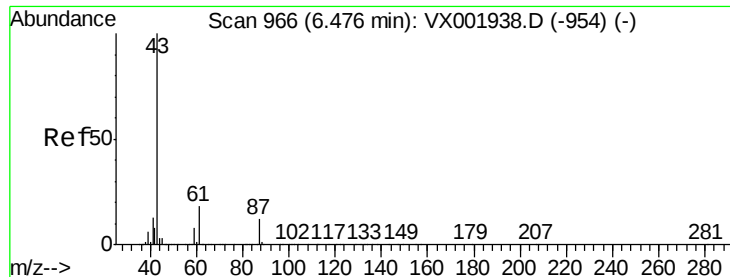


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 6.48 min Scan# 966

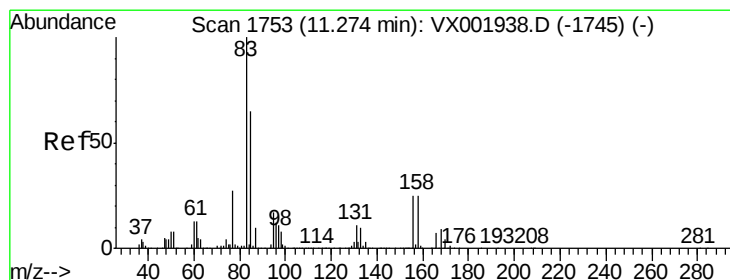
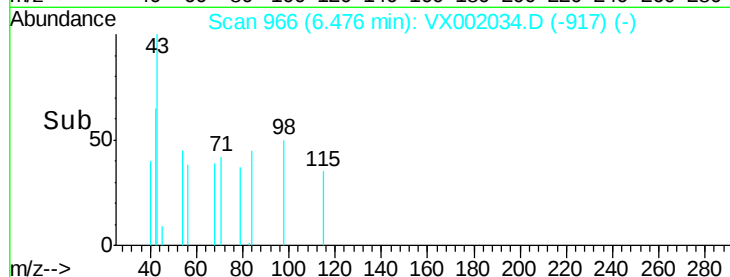
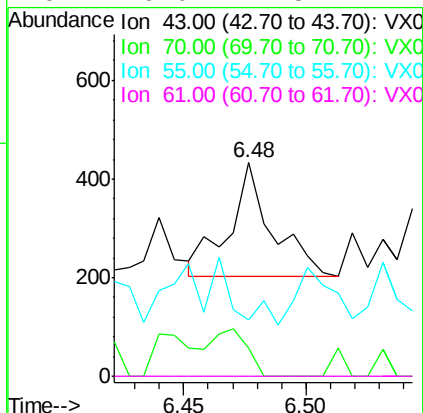
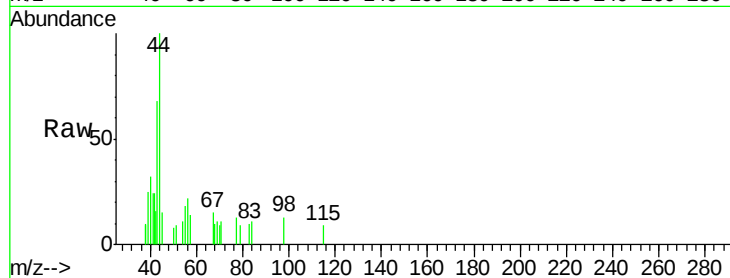
Delta R.T. 0.00 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	43	Resp:	278
Ion	Ratio	Lower	Upper
43	100		
70	31.7	0.1	0.1#
55	64.0	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

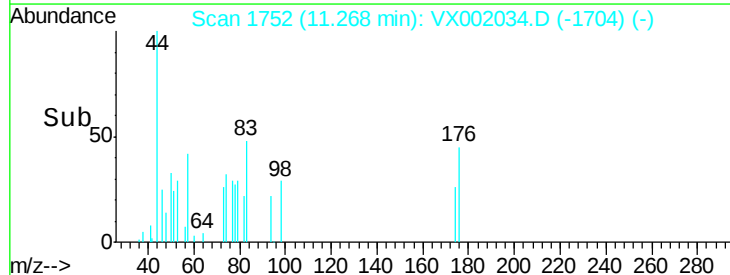
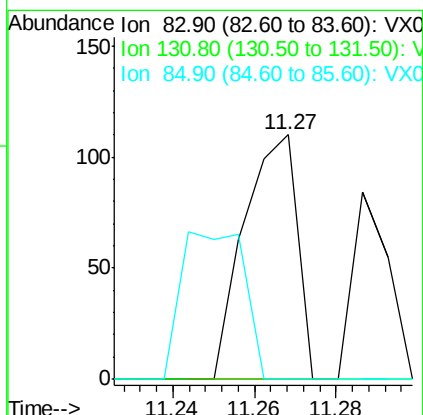
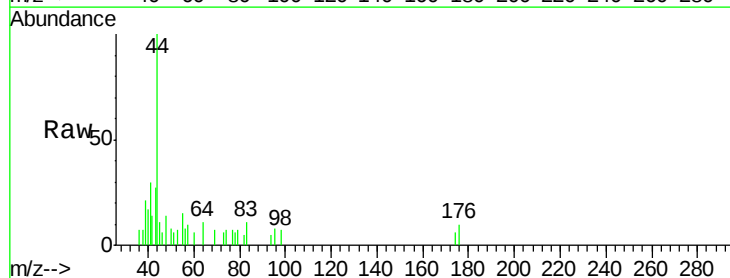
RT: 11.27 min Scan# 1752

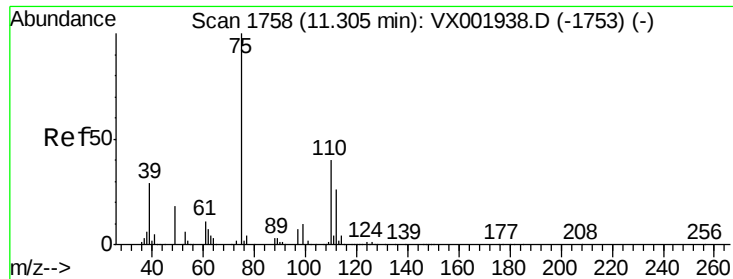
Delta R.T. -0.01 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Tgt Ion:	83	Resp:	100
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.0#
85	0.0	32.6	97.7#

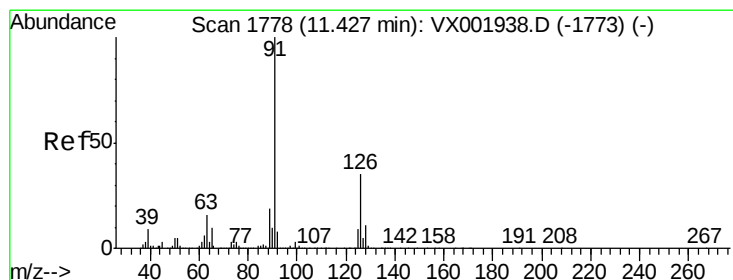
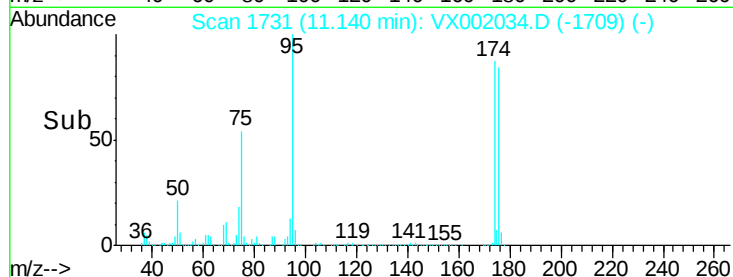
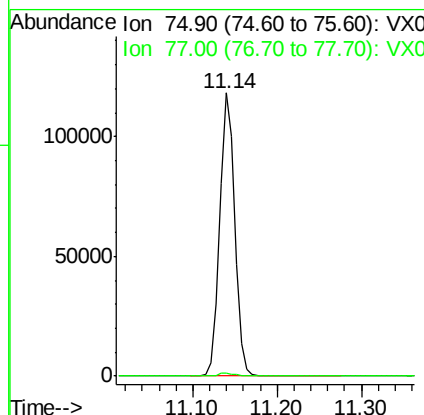
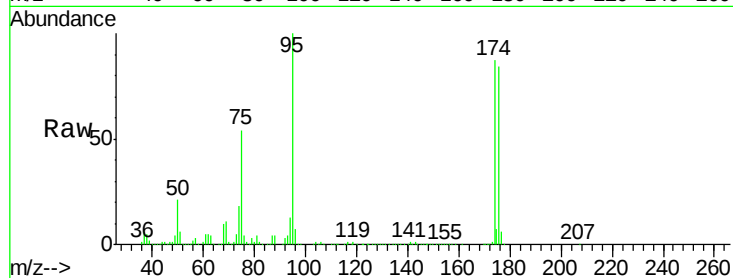




#76
 1,2,3-Trichloropropane
 Concen: 28.42 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002034.D
 Acq: 26 May 2018 22:06

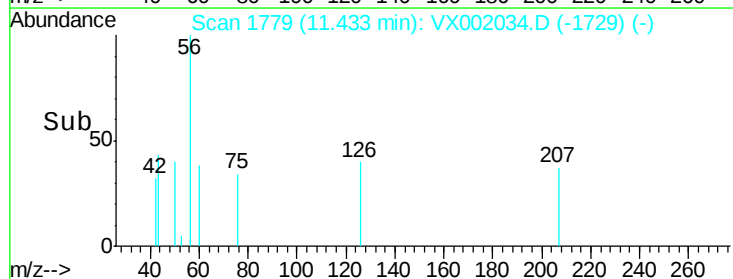
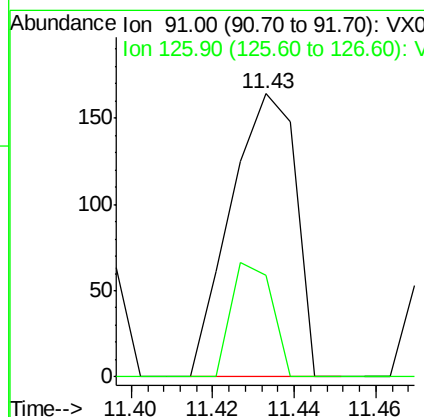
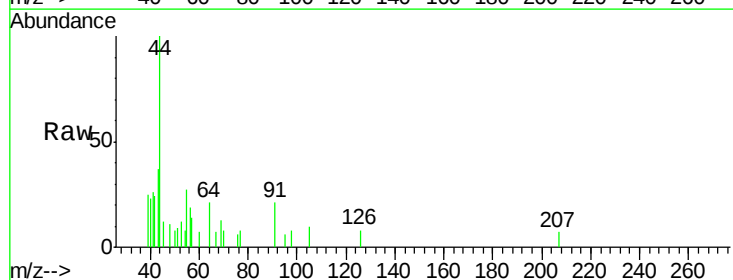
Instrument :
 MSVOA_X
 ClientSampled :

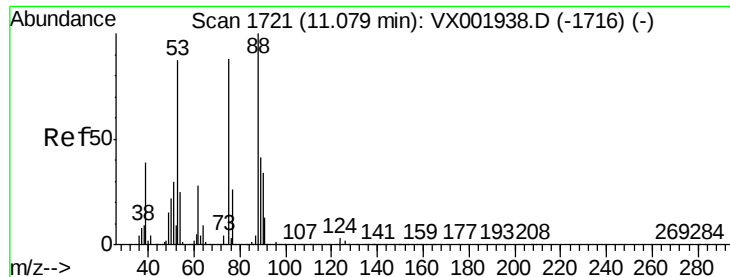
Tot Ion: 75 Resp: 147029
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.43 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: VX002034.D
 Acq: 26 May 2018 22:06

Tgt Ion: 91 Resp: 182
 Ion Ratio Lower Upper
 91 100
 126 25.3 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 68.30 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002034.D

Acq: 26 May 2018 22:06

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 147029

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

