

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX060118\
 Data File : VX002222.D
 Acq On : 01 Jun 2018 19:56
 Operator : JC/MD
 Sample : J3151-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 02 03:21:12 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	235438	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	343134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	306748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	163884	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	231599	55.03	ug/l	0.00
Spiked Amount			Recovery	=	110.06%	
35) Dibromofluoromethane	5.51	113	166765	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	8.72	98	671184	54.03	ug/l	0.00
Spiked Amount			Recovery	=	108.06%	
62) 4-Bromofluorobenzene	11.14	95	227786	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	

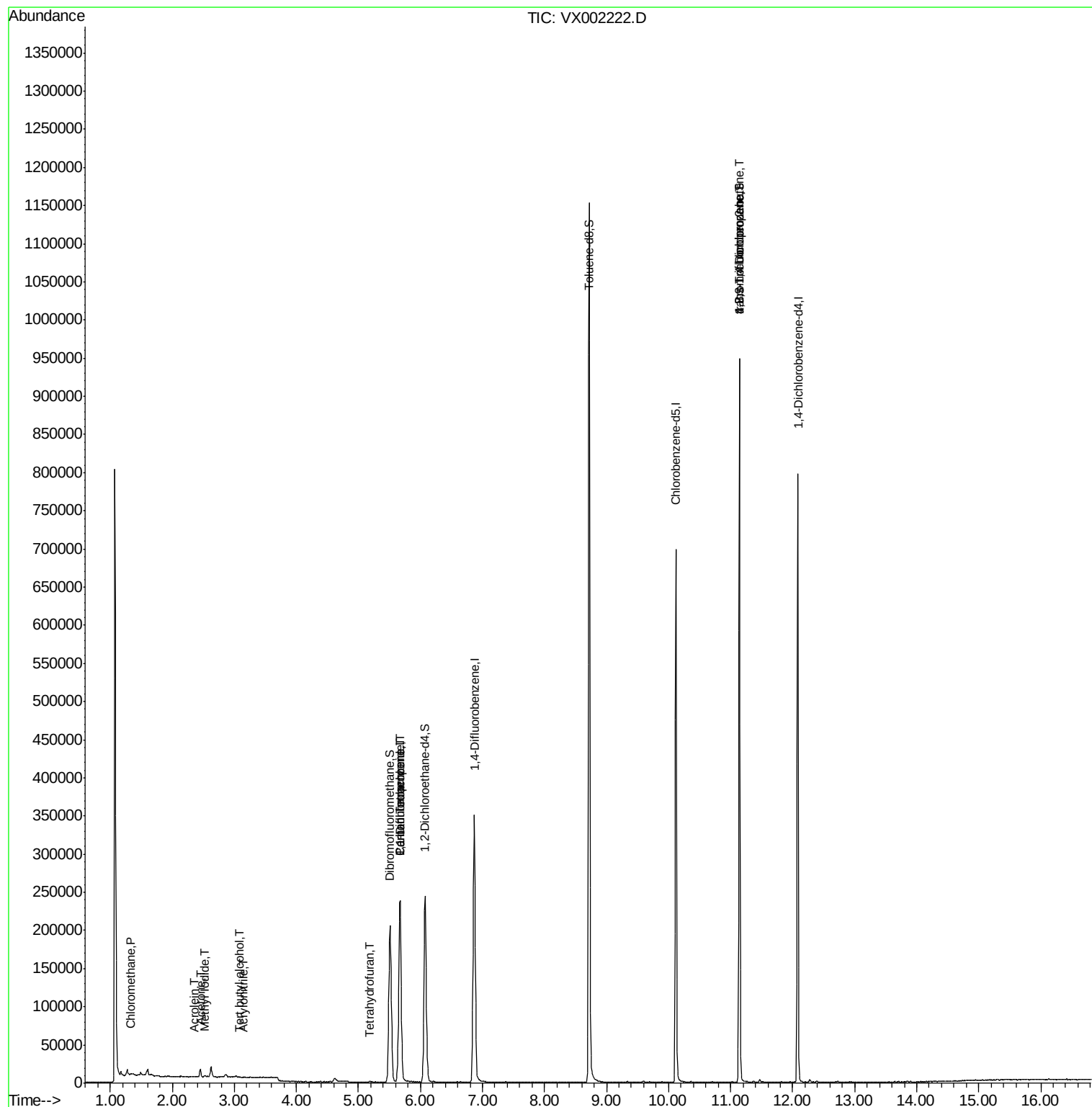
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	124	Below Cal	#	41
3) Chloromethane	1.32	50	905	0.25	ug/l	98
5) Bromomethane	1.65	94	1402	Below Cal		92
10) Methyl Iodide	2.52	142	1881	0.47	ug/l	95
11) Tert butyl alcohol	3.08	59	527	0.64	ug/l	# 56
13) Acrolein	2.36	56	173	0.48	ug/l	# 14
15) Acrylonitrile	3.15	53	342	0.20	ug/l	91
16) Acetone	2.45	43	11485	7.07	ug/l	97
18) Methyl Acetate	2.78	43	325	Below Cal	#	73
20) Methylene Chloride	2.86	84	1549	Below Cal		93
21) trans-1,2-Dichloroethene	3.16	96	142	Below Cal	#	54
28) Bromochloromethane	5.01	49	20	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	495	0.26	ug/l	# 68
36) 1,1-Dichloropropene	5.67	75	17039	3.57	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	22247	4.00	ug/l	# 16
41) Methacrylonitrile	5.09	41	81	Below Cal	#	29
74) N-amyl acetate	6.45	43	63	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.39	83	20	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	124633	31.66	ug/l	# 33
79) 2-Chlorotoluene	11.43	91	89	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	124633	76.10	ug/l	# 10

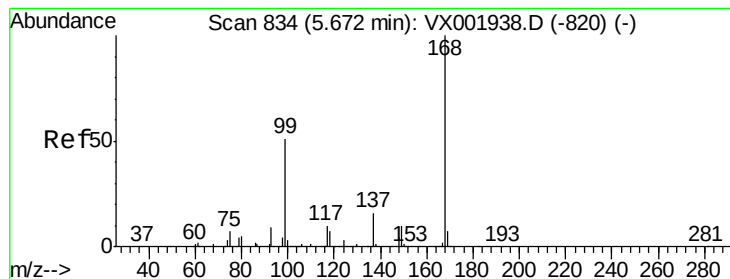
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :

MSVOA_X

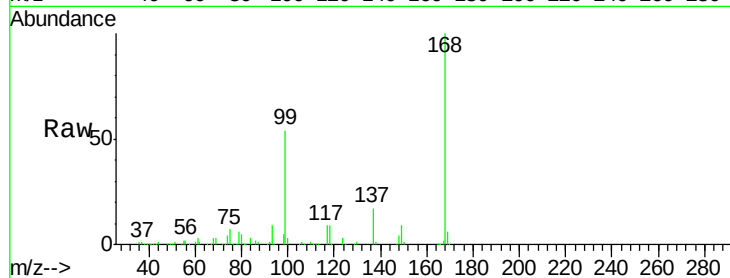
ClientSampleId :

Tot Ion:168 Resp: 235438

Ion Ratio Lower Upper

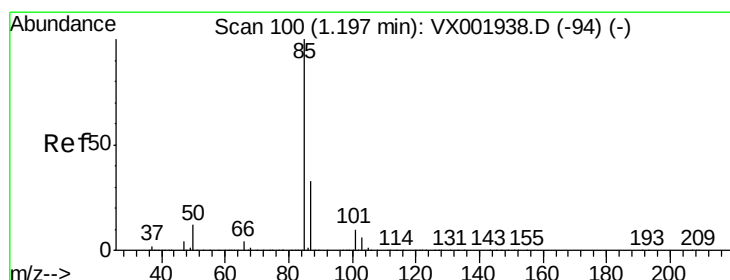
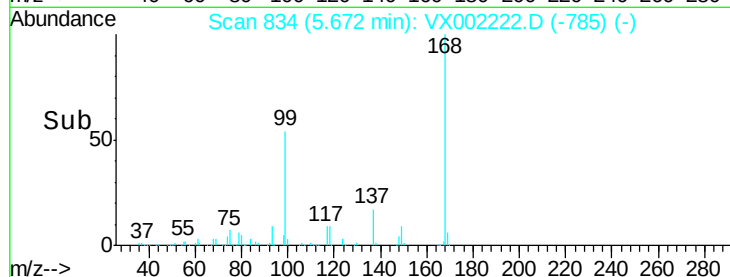
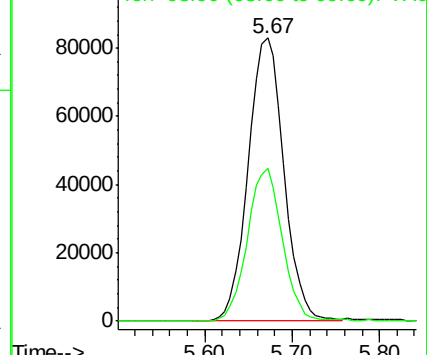
168 100

99 53.9 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002222.D

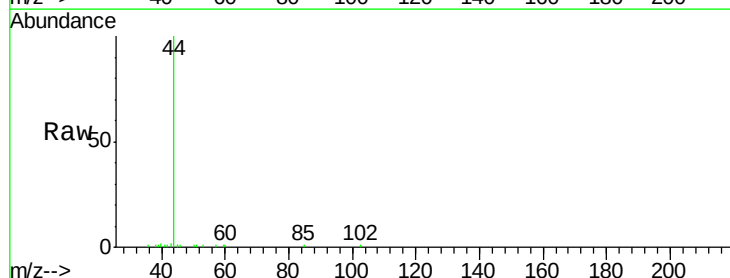
Acq: 01 Jun 2018 19:56

Tgt Ion: 85 Resp: 124

Ion Ratio Lower Upper

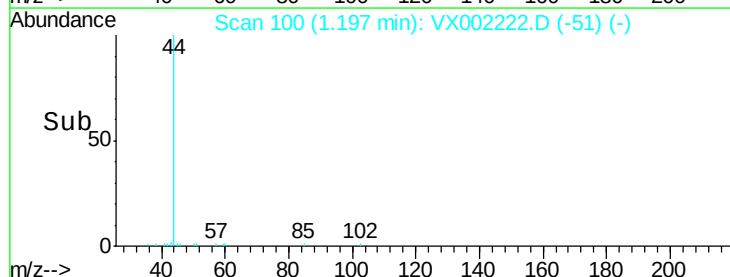
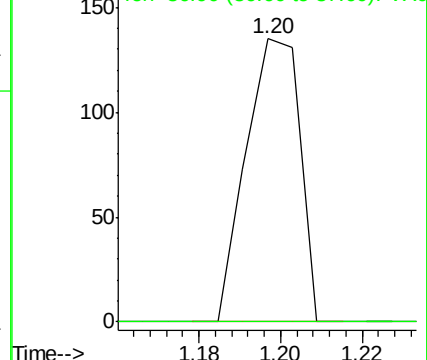
85 100

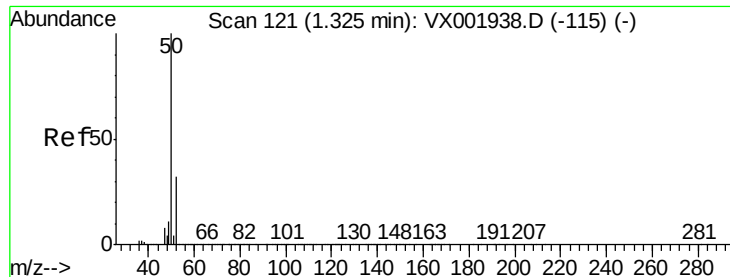
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :

MSVOA_X

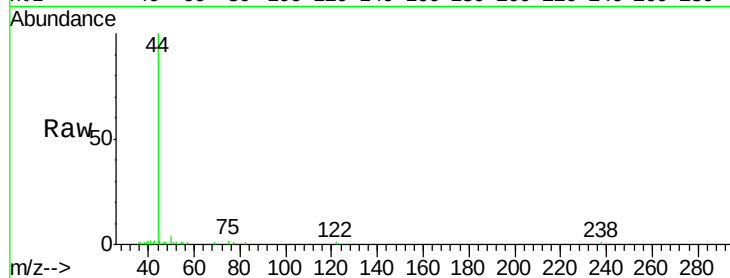
ClientSampled :

Tot Ion: 50 Resp: 905

Ion Ratio Lower Upper

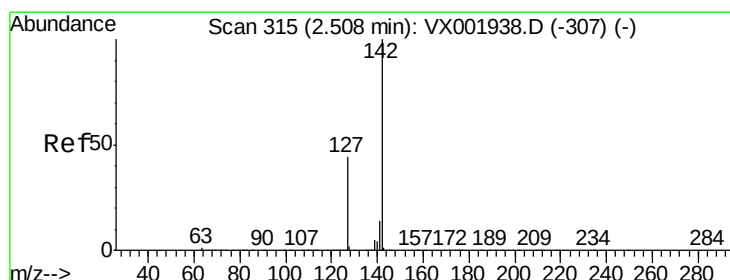
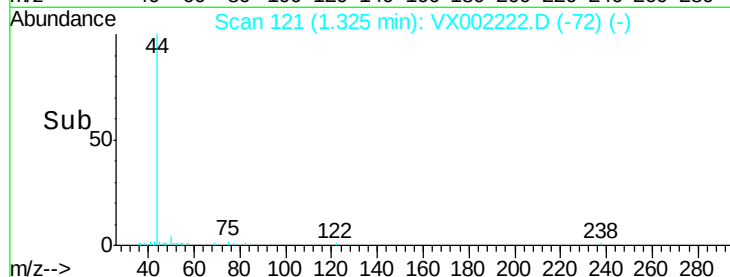
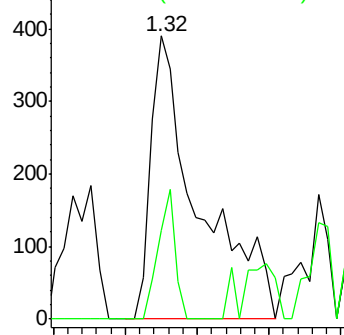
50 100

52 31.5 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#10

Methyl Iodide

Concen: 0.47 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

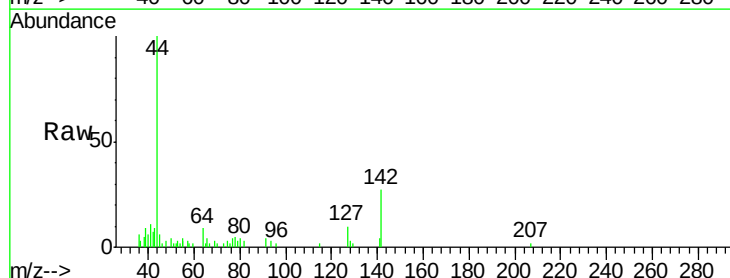
Tgt Ion: 142 Resp: 1881

Ion Ratio Lower Upper

142 100

127 47.8 35.5 53.3

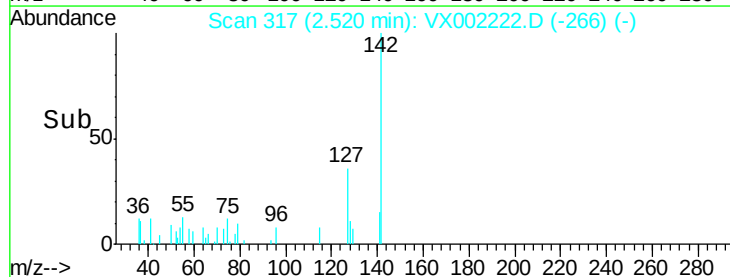
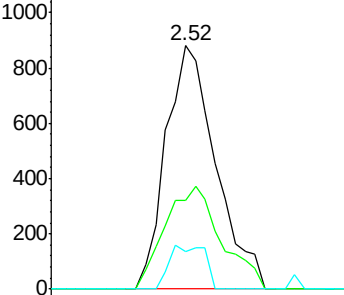
141 12.7 11.3 16.9

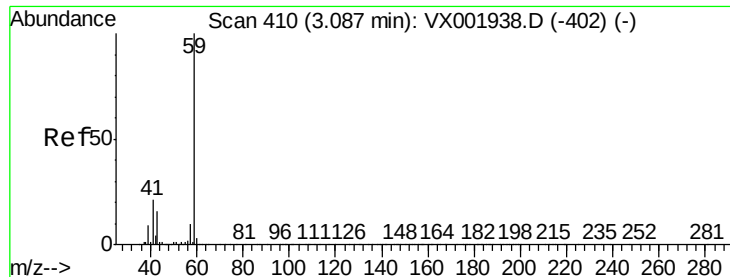


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



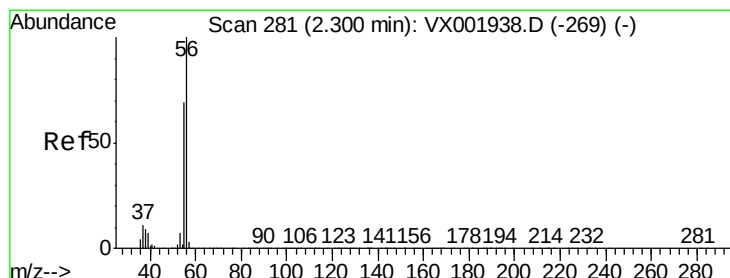
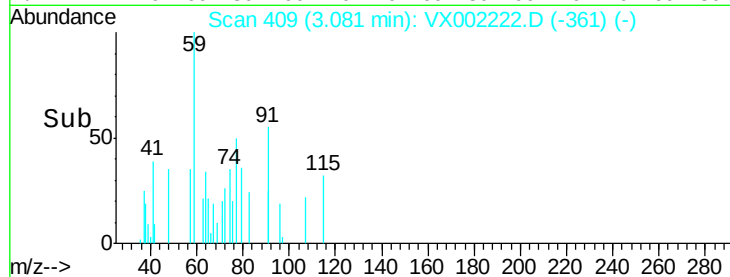
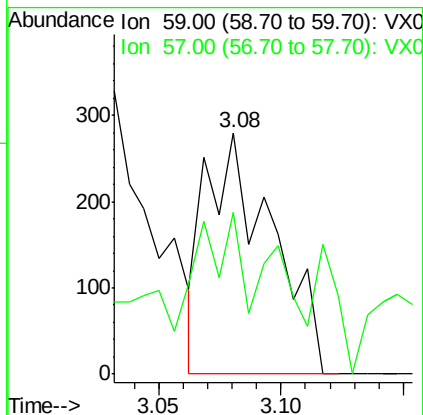
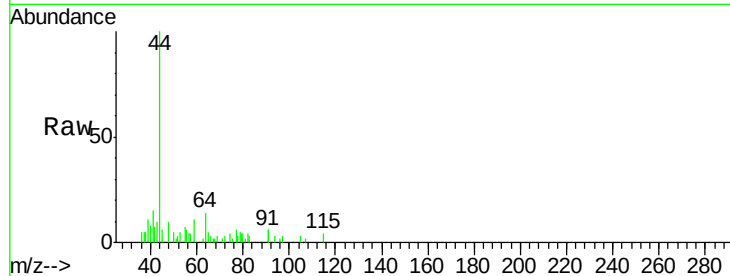


#11

Tert butyl alcohol
Concen: 0.64 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.01 min
Lab File: VX002222.D
Acq: 01 Jun 2018 19:56

Instrument :
MSVOA_X
ClientSampled :

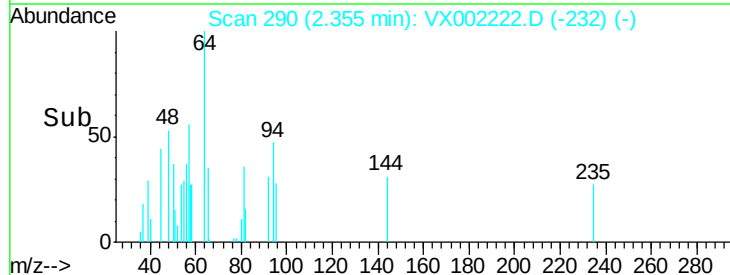
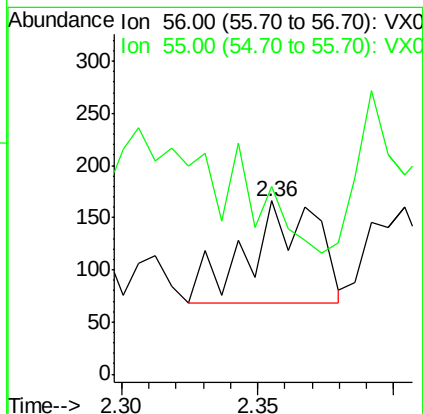
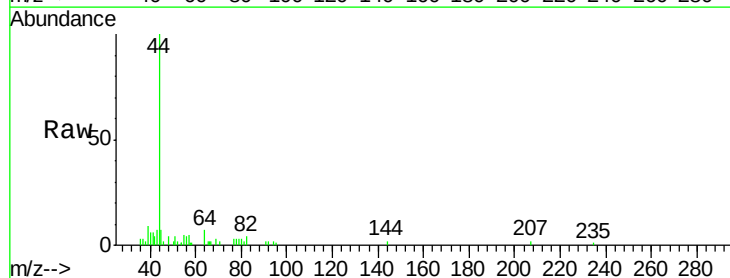
Tot Ion: 59 Resp: 527
Ion Ratio Lower Upper
59 100
57 27.7 8.9 13.3#

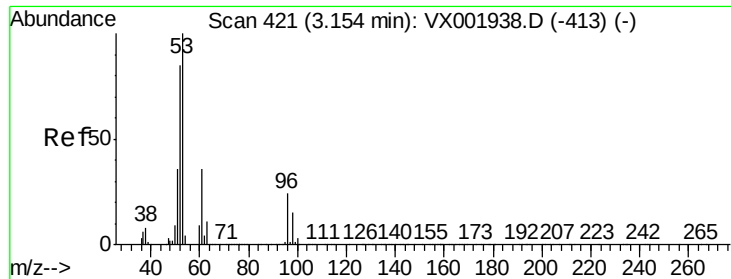


#13

Acrolein
Concen: 0.48 ug/l
RT: 2.36 min Scan# 290
Delta R.T. 0.05 min
Lab File: VX002222.D
Acq: 01 Jun 2018 19:56

Tgt Ion: 56 Resp: 173
Ion Ratio Lower Upper
56 100
55 0.0 56.8 85.2#





#15

Acrylonitrile

Concen: 0.20 ug/l

RT: 3.15 min Scan# 421

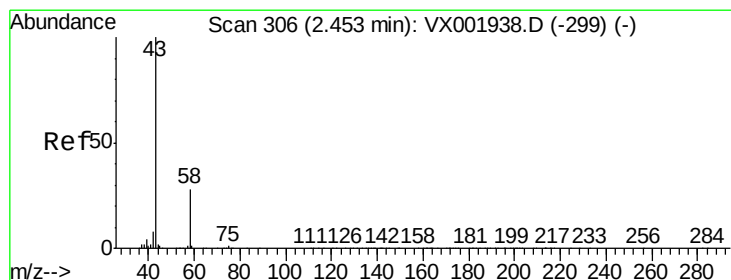
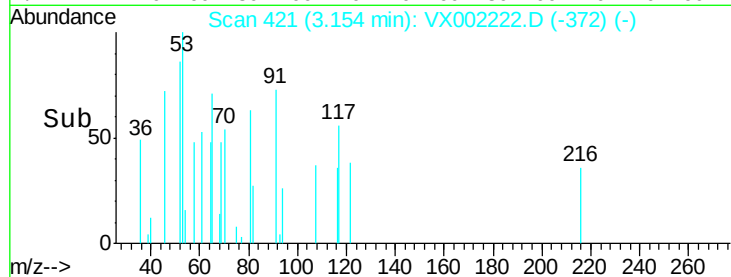
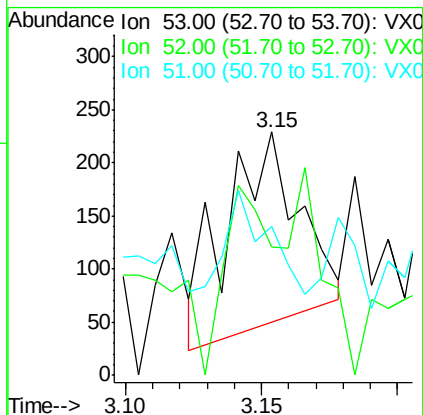
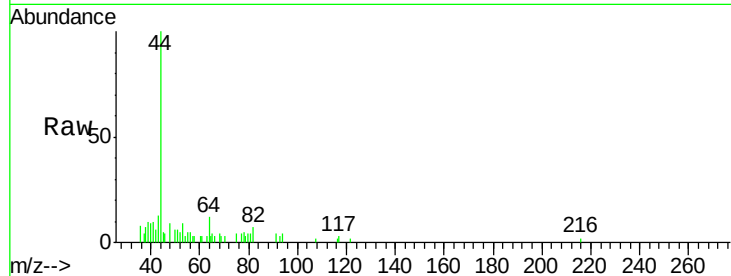
Delta R.T. -0.00 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	342
Ion	Ratio	Lower	Upper
53	100		
52	71.6	66.4	99.6
51	37.1	29.3	43.9



#16

Acetone

Concen: 7.07 ug/l

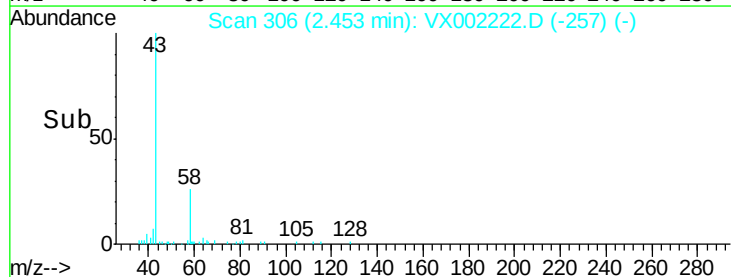
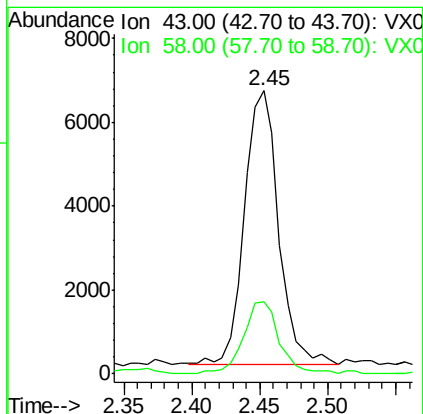
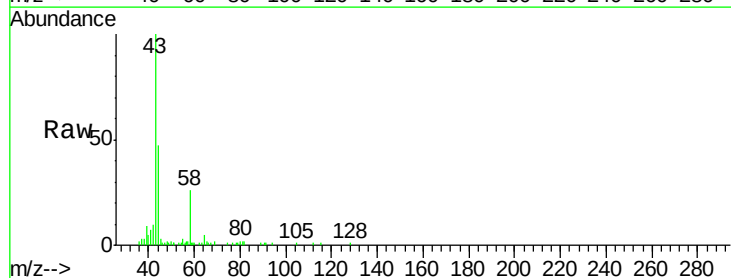
RT: 2.45 min Scan# 306

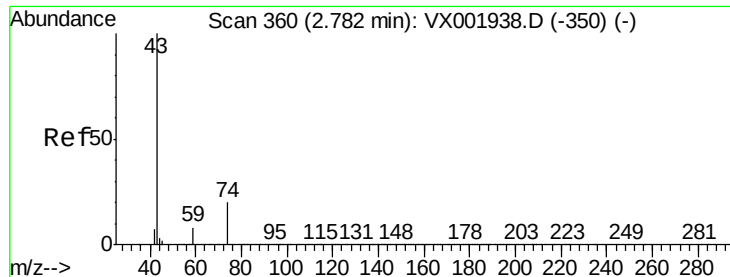
Delta R.T. -0.00 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Tgt Ion:	43	Resp:	11485
Ion	Ratio	Lower	Upper
43	100		
58	26.5	22.3	33.5

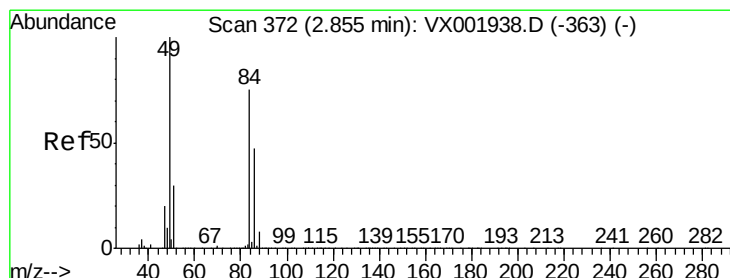
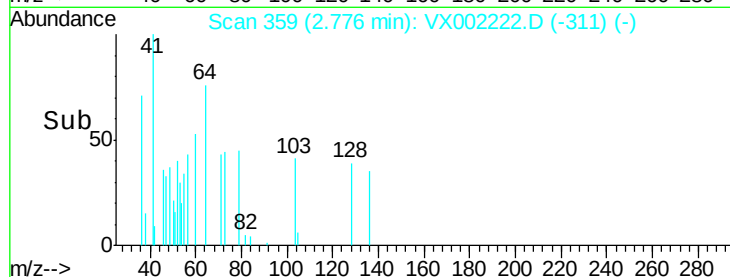
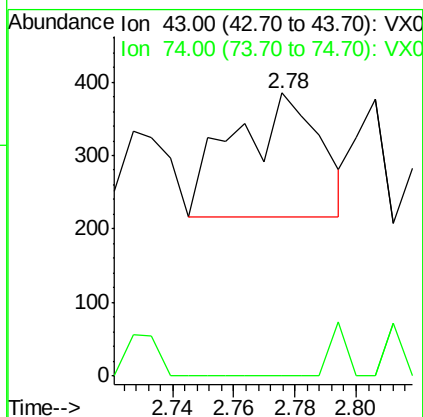
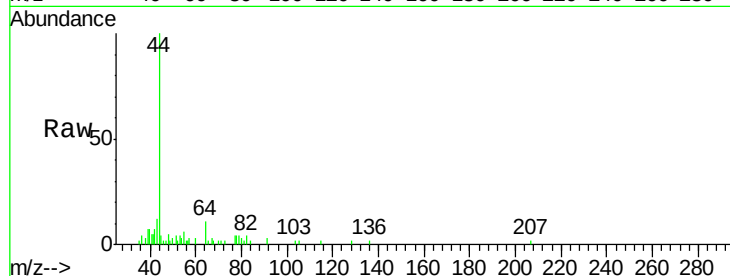




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002222.D
Acq: 01 Jun 2018 19:56

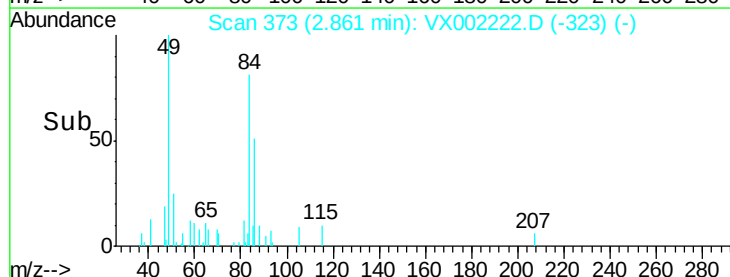
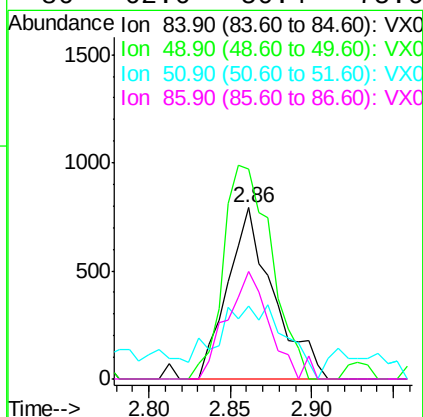
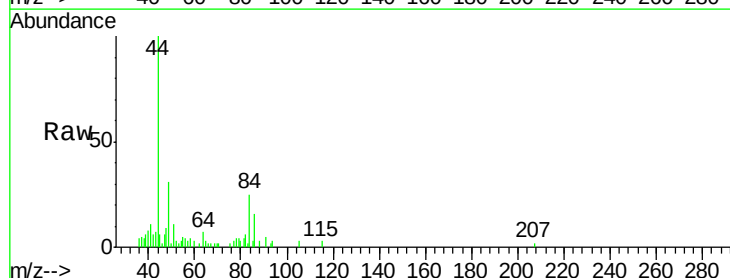
Instrument :
MSVOA_X
ClientSampleId :

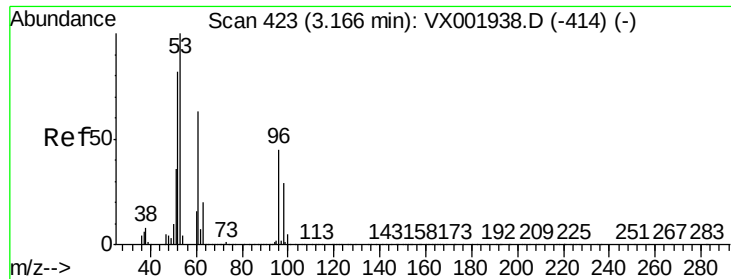
Tot Ion: 43 Resp: 325
Ion Ratio Lower Upper
43 100
74 8.3 16.8 25.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002222.D
Acq: 01 Jun 2018 19:56

Tgt Ion: 84 Resp: 1549
Ion Ratio Lower Upper
84 100
49 123.0 107.2 160.8
51 33.0 32.4 48.6
86 62.6 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. -0.01 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :

MSVOA_X

ClientSampleId :

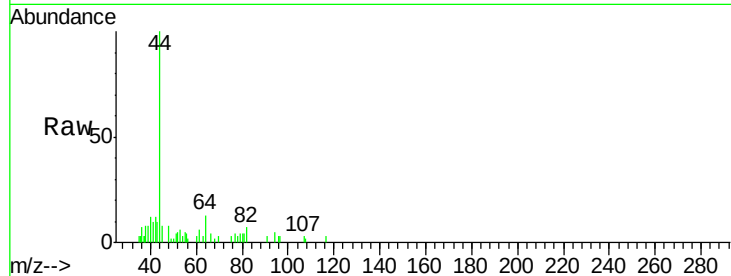
Tot Ion: 96 Resp: 142

Ion Ratio Lower Upper

96 100

61 105.0 113.3 169.9#

98 0.0 51.7 77.5#



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

200

150

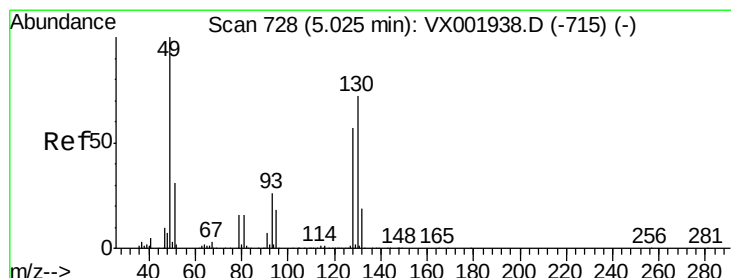
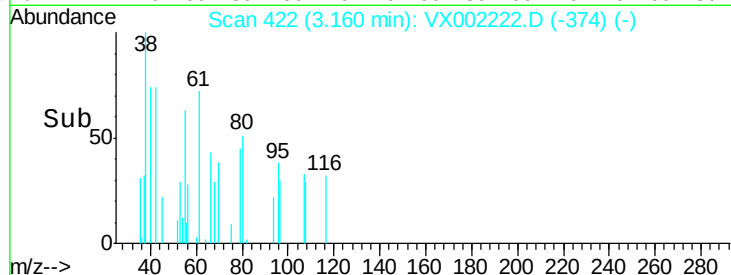
100

50

0

3.14 3.16 3.18 3.20

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 725

Delta R.T. -0.02 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

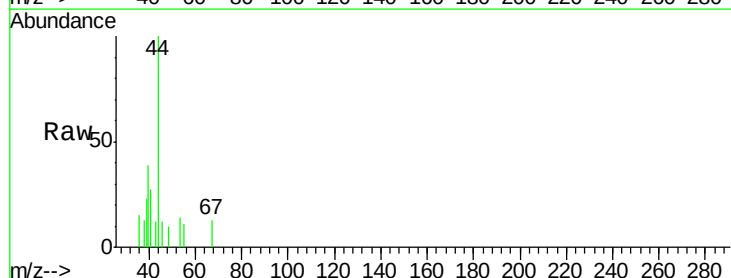
Tgt Ion: 49 Resp: 20

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

60

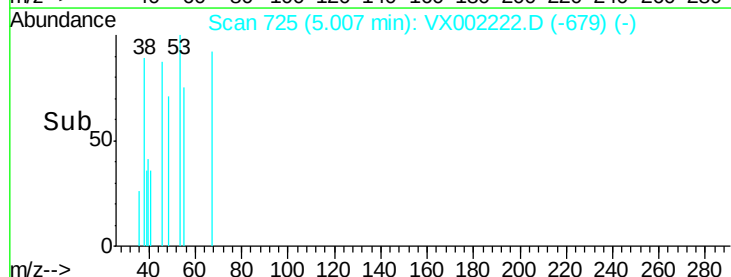
40

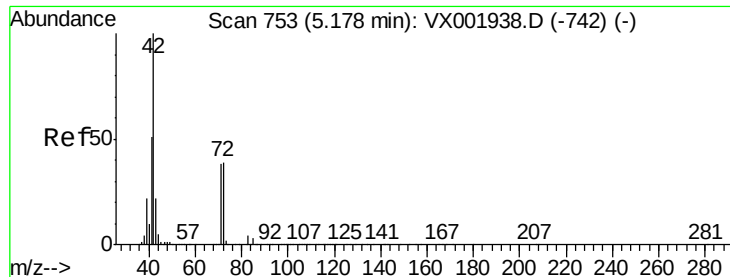
20

0

4.99 5.00 5.01 5.02

Time-->





#29

Tetrahydrofuran

Concen: 0.26 ug/l

RT: 5.18 min Scan# 753

Delta R.T. -0.00 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :

MSVOA_X

ClientSampleId :

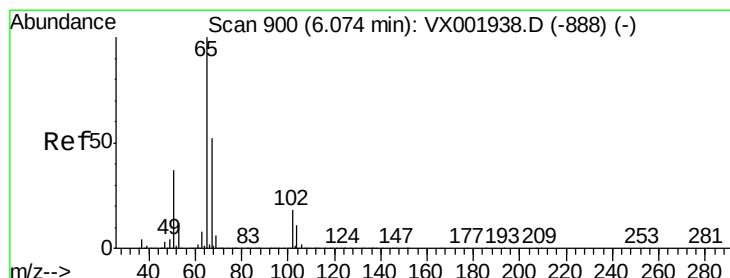
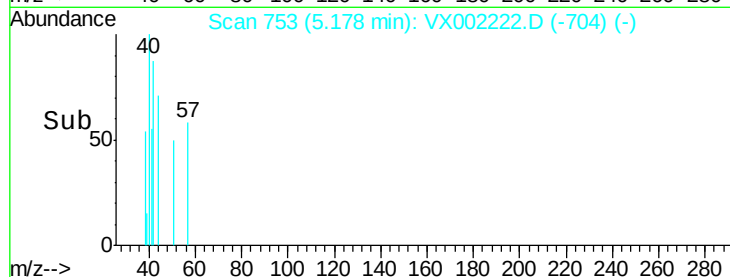
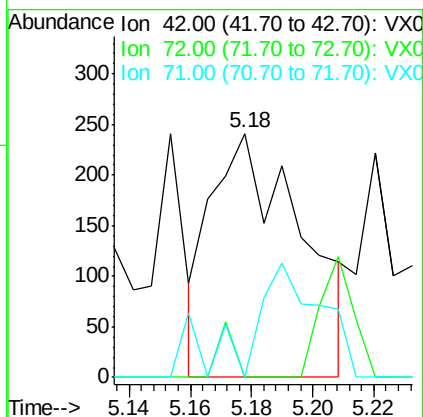
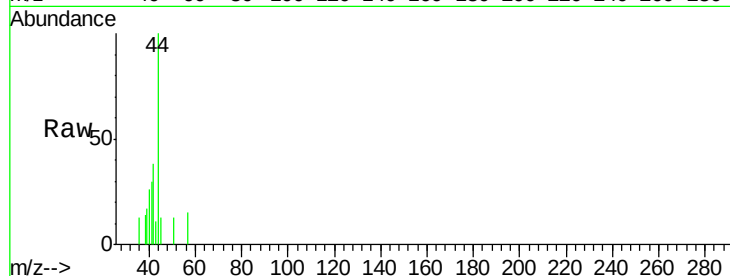
Tot Ion: 42 Resp: 495

Ion Ratio Lower Upper

42 100

72 4.0 31.4 47.0#

71 33.7 29.5 44.3



#33

1,2-Dichloroethane-d4

Concen: 55.03 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002222.D

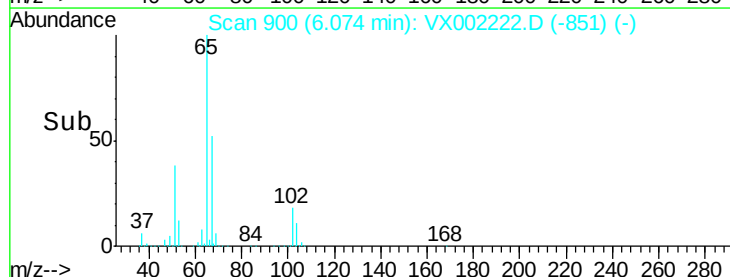
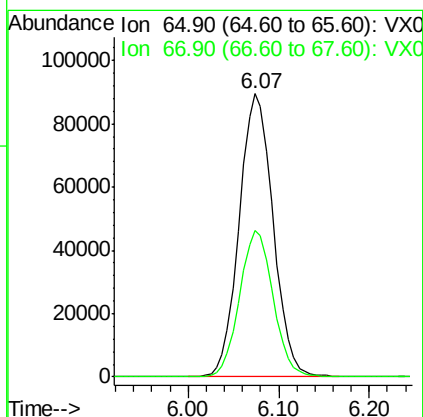
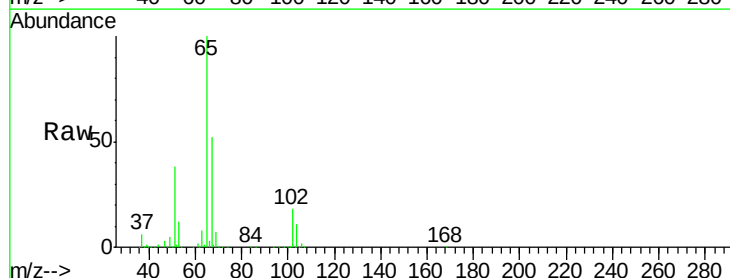
Acq: 01 Jun 2018 19:56

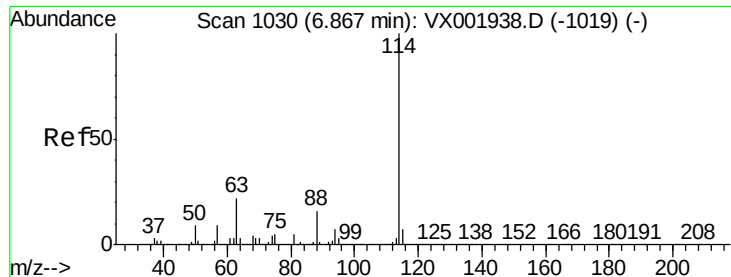
Tgt Ion: 65 Resp: 231599

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

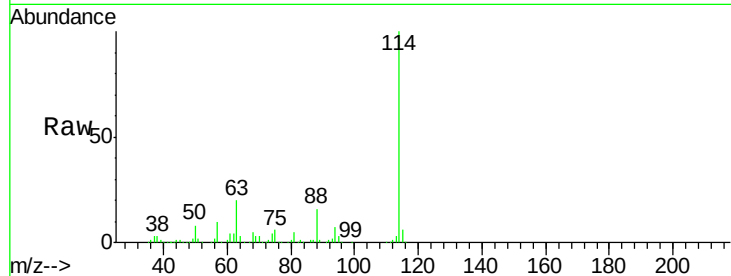
Delta R.T. -0.00 min

Lab File: VX002222.D

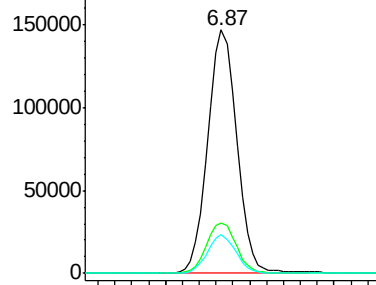
Acq: 01 Jun 2018 19:56

Instrument :
MSVOA_X
ClientSampleId :

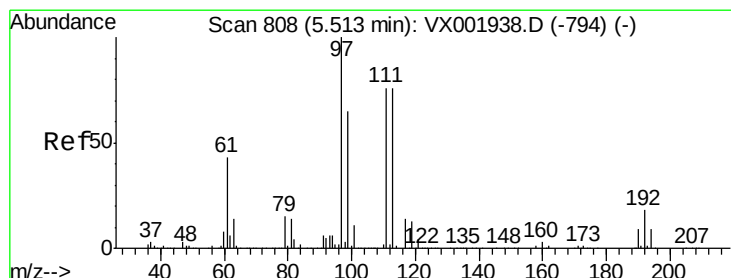
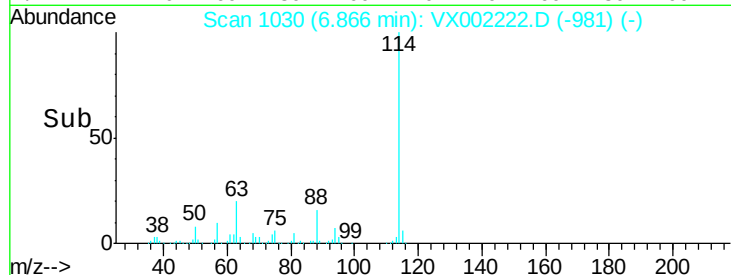
Tot Ion:	114	Resp:	343134
Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.2
88	15.9	0.0	31.6



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



Time-->



#35

Dibromofluoromethane

Concen: 48.60 ug/l

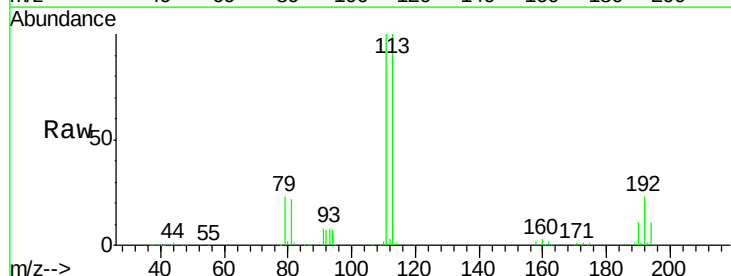
RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

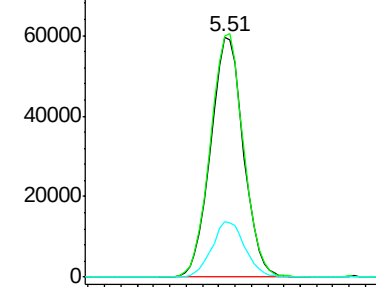
Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

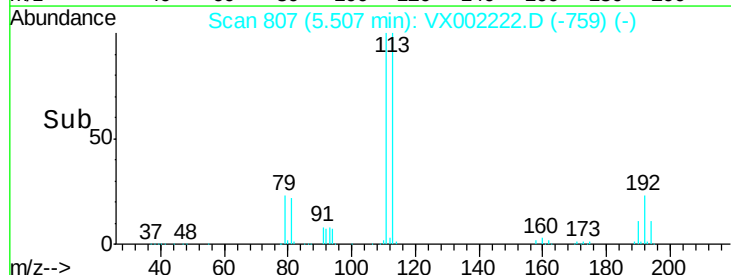
Tgt Ion:	113	Resp:	166765
Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.0	123.0
192	23.4	18.9	28.3

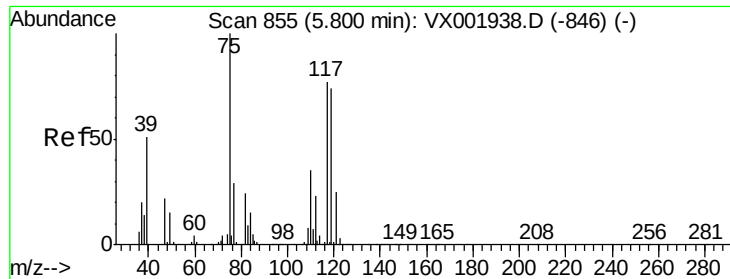


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



Time-->

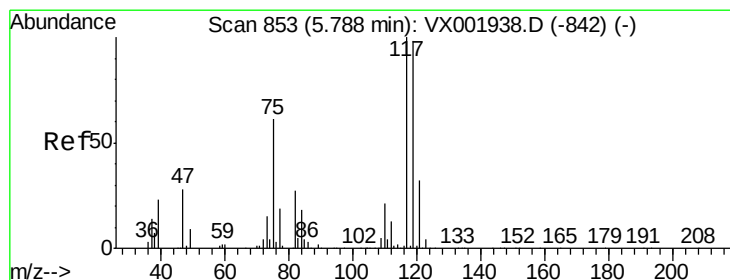
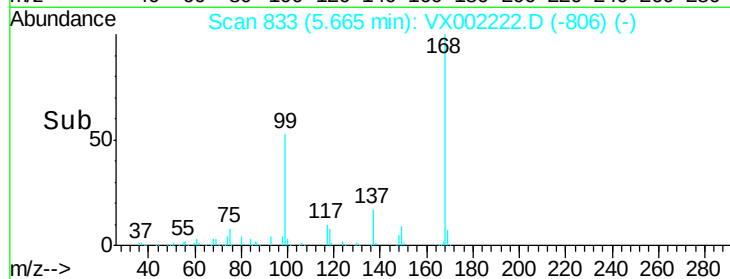
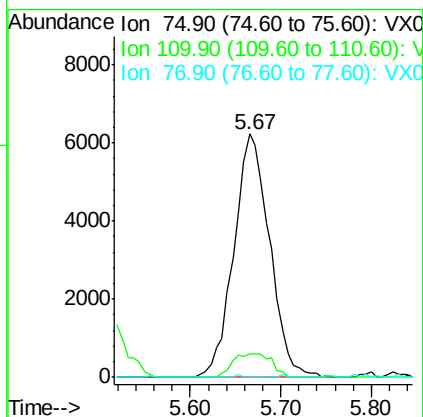
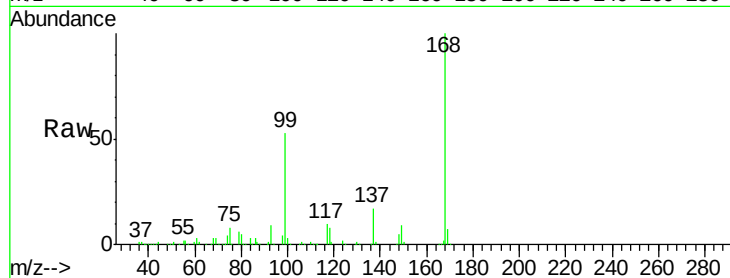




#36
 1,1-Dichloropropene
 Concen: 3.57 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002222.D
 Acq: 01 Jun 2018 19:56

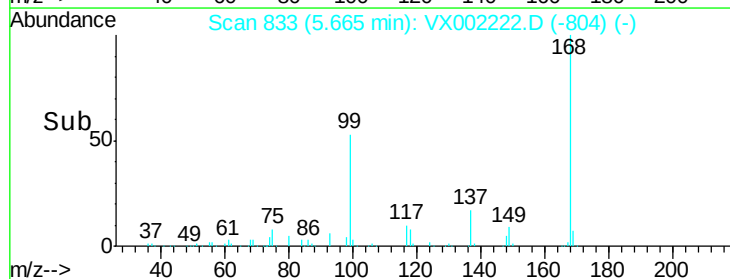
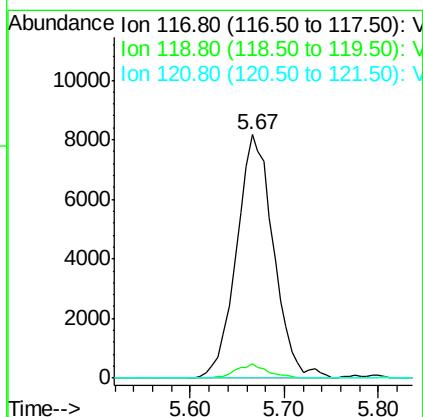
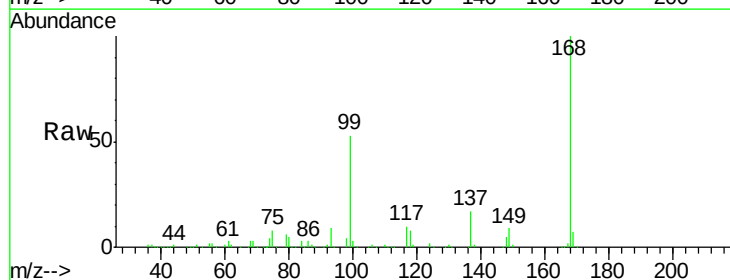
Instrument :
 MSVOA_X
 ClientSampled :

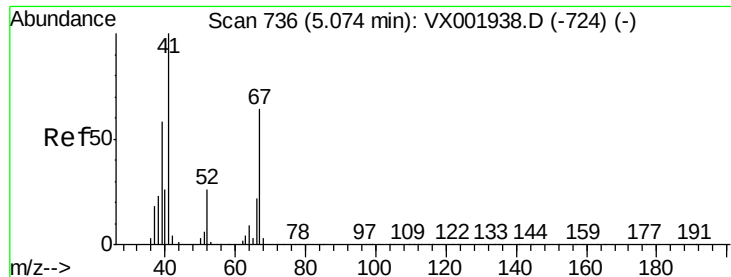
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	17.4	52.2#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.00 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002222.D
 Acq: 01 Jun 2018 19:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	78.5	117.7#
121	0.0	25.5	38.3#

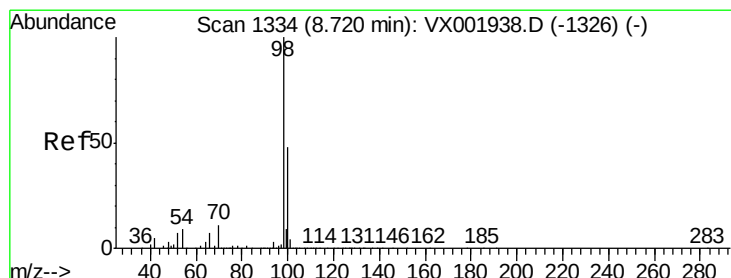
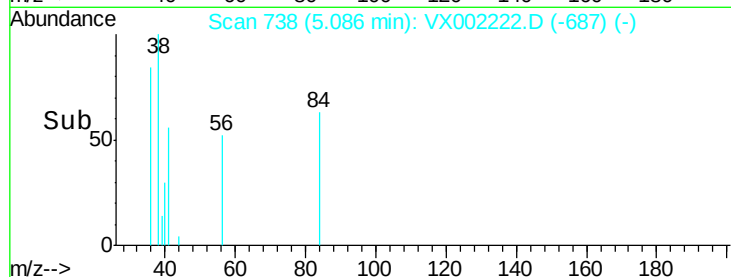
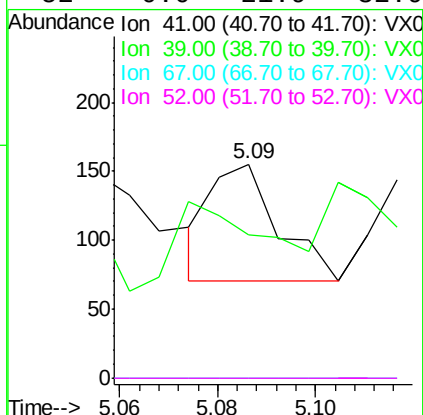
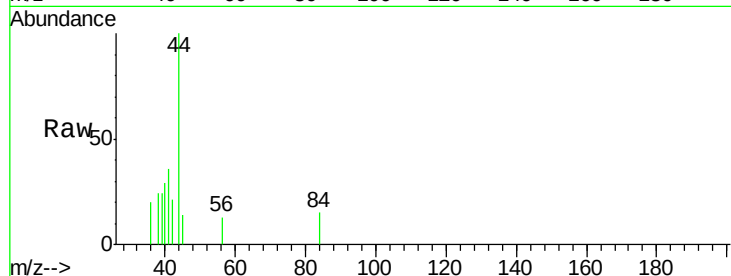




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.09 min Scan# 738
Delta R.T. 0.01 min
Lab File: VX002222.D
Acq: 01 Jun 2018 19:56

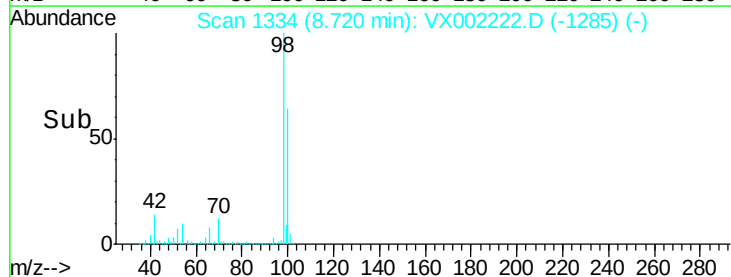
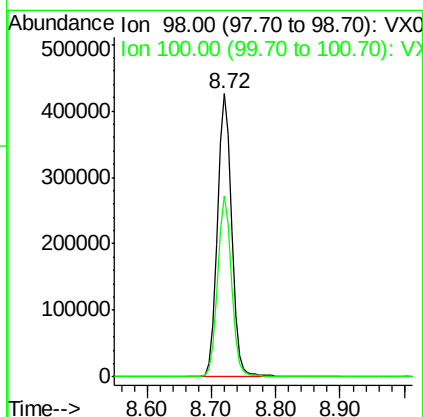
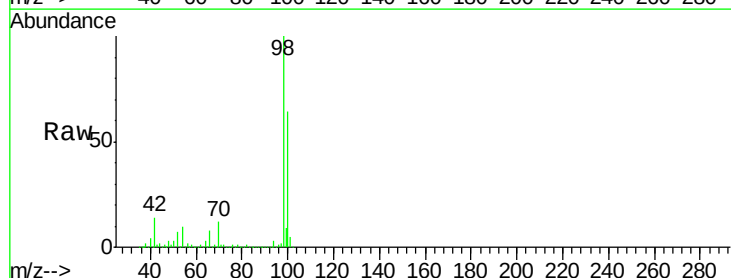
Instrument :
MSVOA_X
ClientSampled :

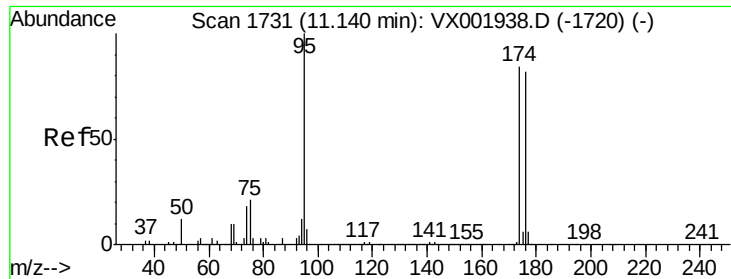
Tot Ion	Ion	Ratio	Lower	Upper	Resp
41	41	100			81
39	39	107.4	46.0	69.0	#
67	67	0.0	50.6	75.8	#
52	52	0.0	21.9	32.9	#



#50
Toluene-d8
Concen: 54.03 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002222.D
Acq: 01 Jun 2018 19:56

Tgt Ion	Ion	Ratio	Lower	Upper	Resp
98	98	100			671184
100	100	62.5	51.5	77.3	





#62

4-Bromofluorobenzene

Concen: 46.87 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :

MSVOA_X

ClientSampleId :

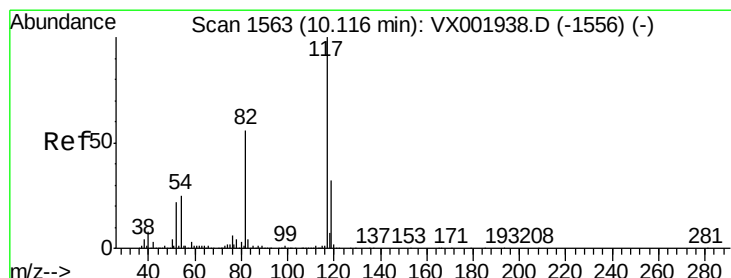
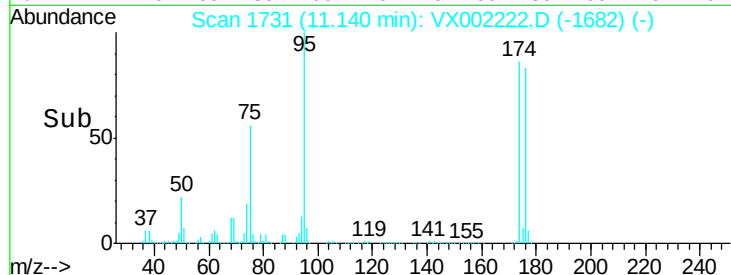
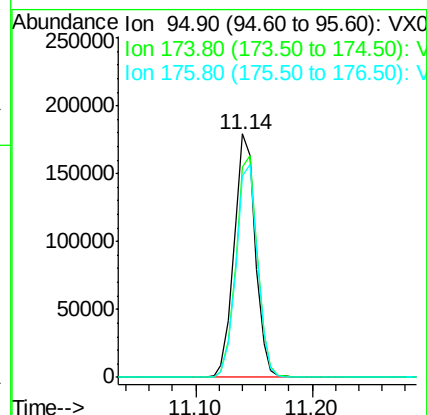
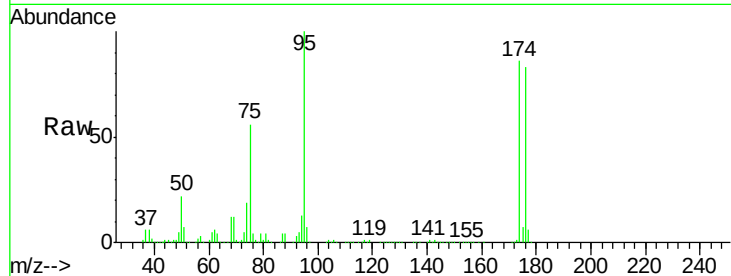
Tot Ion: 95 Resp: 227786

Ion Ratio Lower Upper

95 100

174 92.6 0.0 178.8

176 89.0 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: VX002222.D

Acq: 01 Jun 2018 19:56

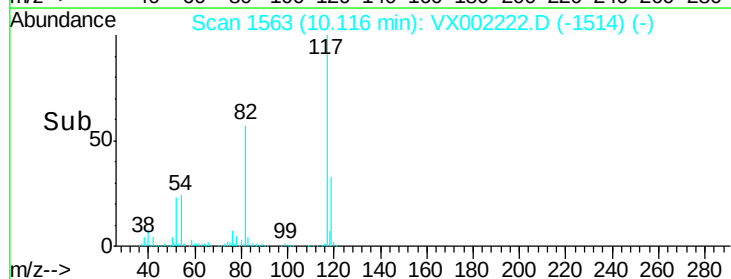
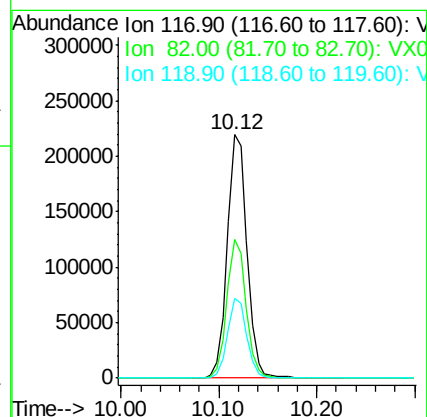
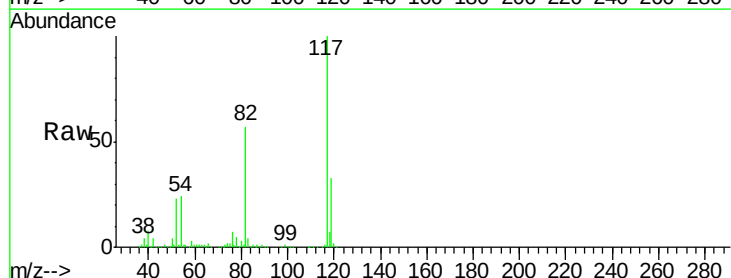
Tgt Ion: 117 Resp: 306748

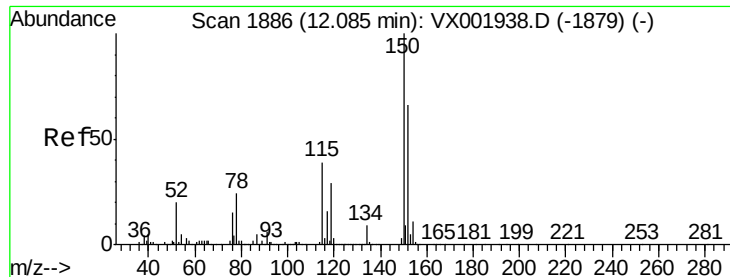
Ion Ratio Lower Upper

117 100

82 56.9 44.8 67.2

119 32.6 25.5 38.3

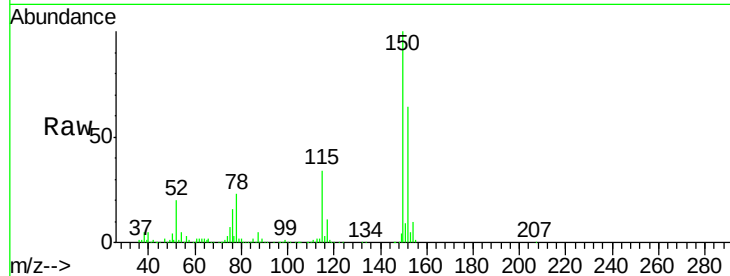




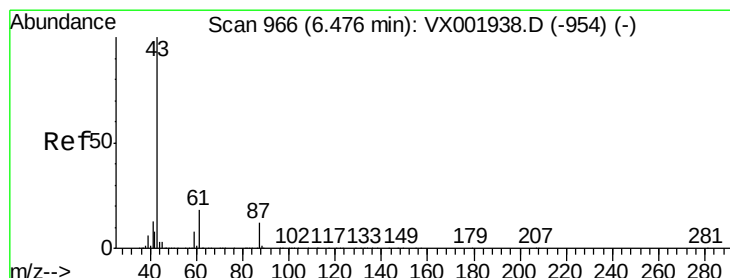
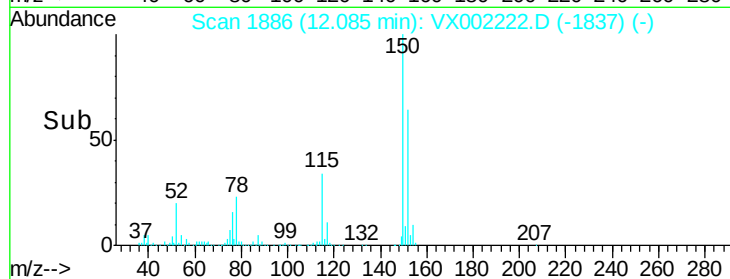
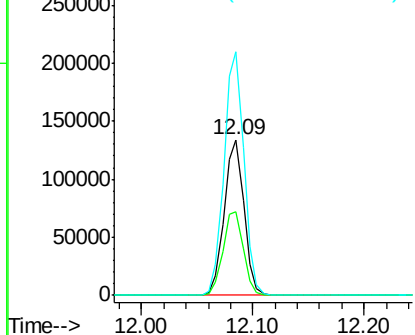
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.09 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX002222.D
 Acq: 01 Jun 2018 19:56

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:152 Resp: 163884
 Ion Ratio Lower Upper
 152 100
 115 55.5 42.3 126.8
 150 157.7 0.0 351.0

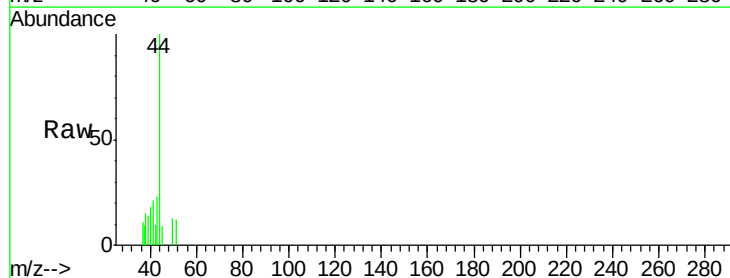


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

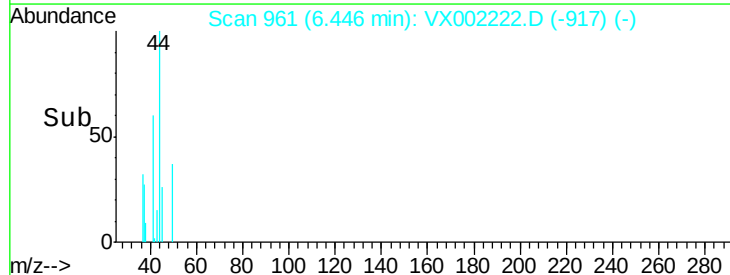
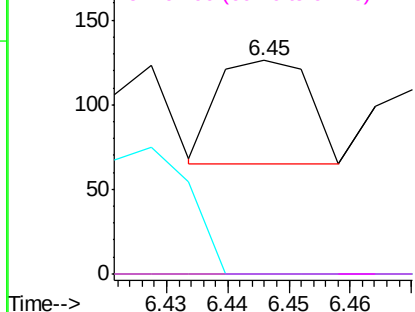


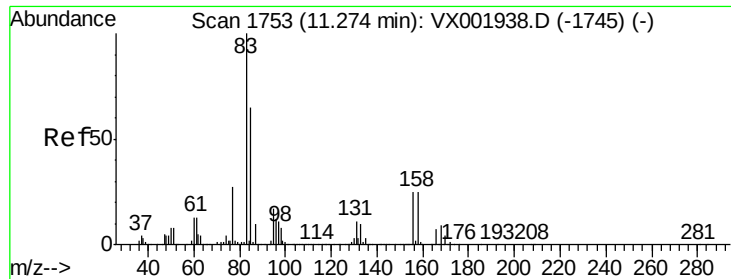
#74
 N-aryl acetate
 Concen: Below Cal
 RT: 6.45 min Scan# 961
 Delta R.T. -0.03 min
 Lab File: VX002222.D
 Acq: 01 Jun 2018 19:56

Tgt Ion: 43 Resp: 63
 Ion Ratio Lower Upper
 43 100
 70 0.0 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: 11.39 min Scan# 1772

Delta R.T. 0.12 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :

MSVOA_X

ClientSampleId :

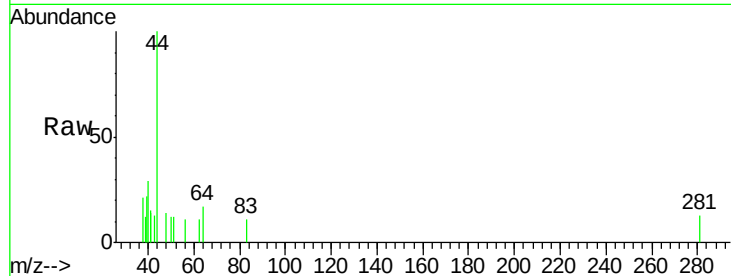
Tot Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

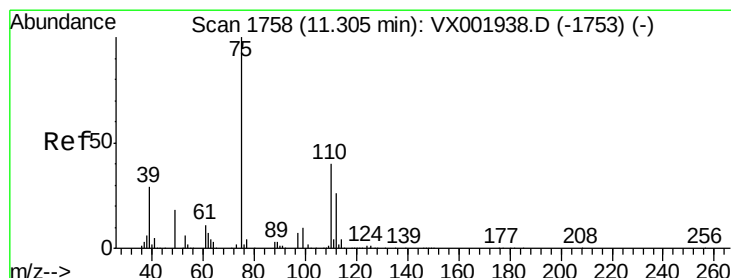
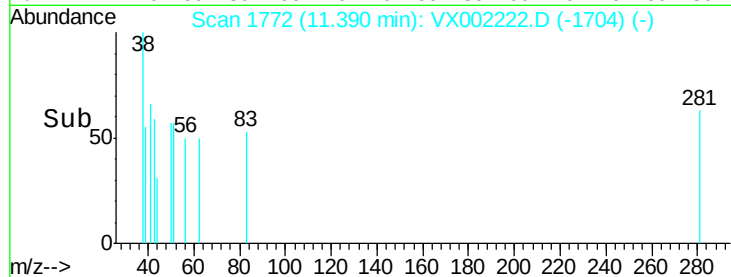
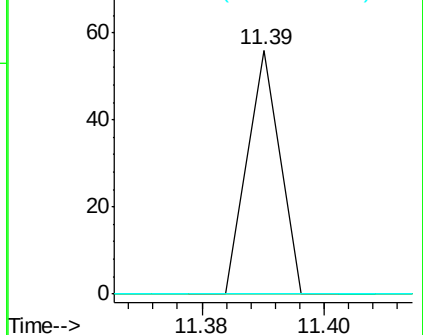
85 0.0 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 31.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002222.D

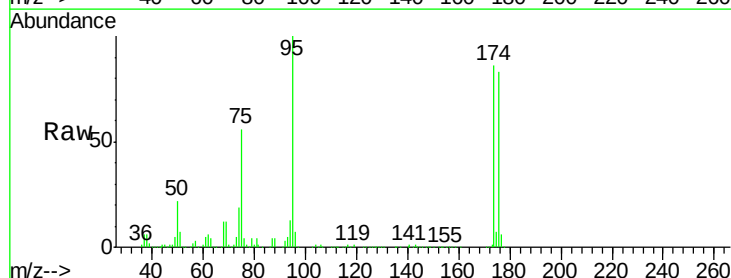
Acq: 01 Jun 2018 19:56

Tgt Ion: 75 Resp: 124633

Ion Ratio Lower Upper

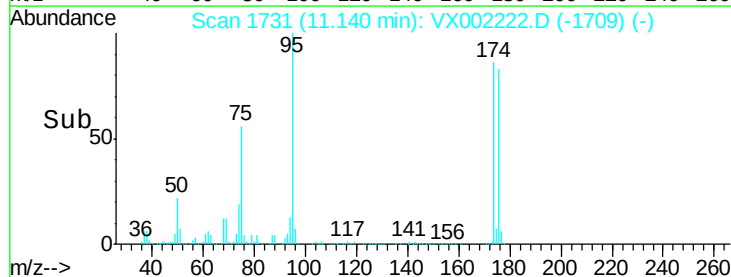
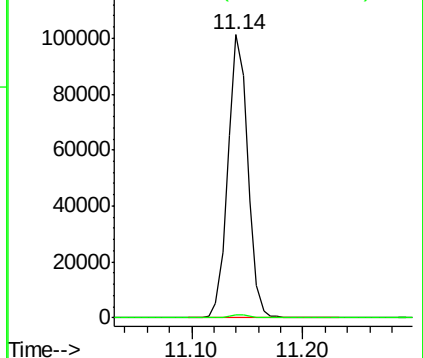
75 100

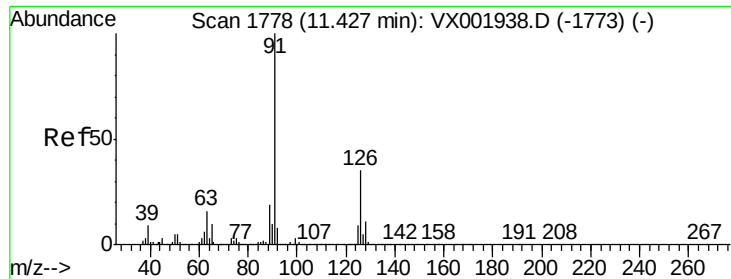
77 1.2 22.8 68.3#



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# 1778

Delta R.T. 0.00 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

Instrument :

MSVOA_X

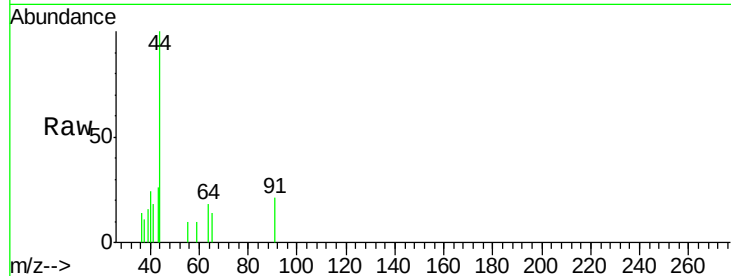
ClientSampleId :

Tot Ion: 91 Resp: 89

Ion Ratio Lower Upper

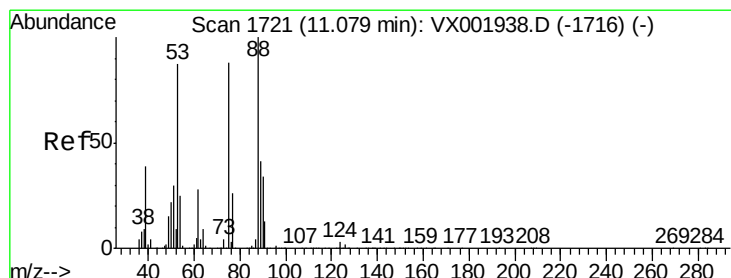
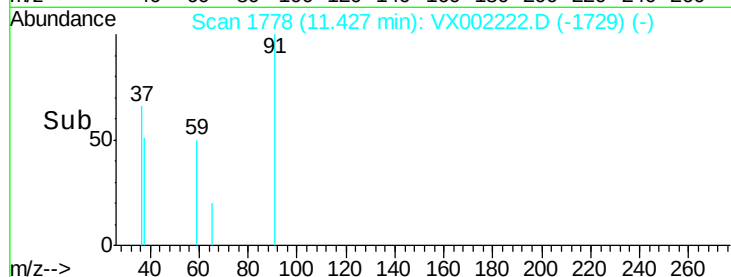
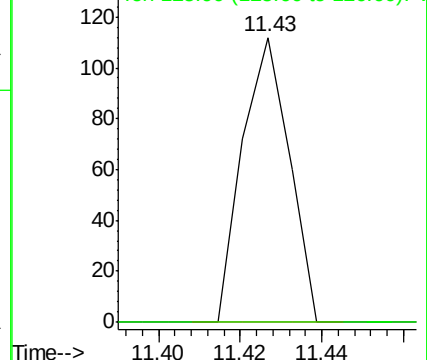
91 100

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: 76.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002222.D

Acq: 01 Jun 2018 19:56

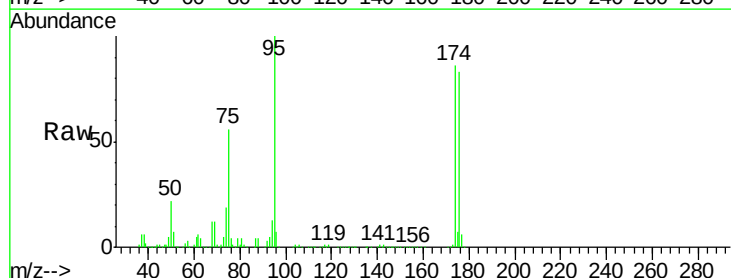
Tgt Ion: 75 Resp: 124633

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

