

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX060218\
 Data File : VX002244.D
 Acq On : 02 Jun 2018 17:24
 Operator : JC/MD
 Sample : J3119-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 05:10:06 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	253875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	363184	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	342362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193352	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	233028	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	5.51	113	166789	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	
50) Toluene-d8	8.72	98	663038	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	11.14	95	235478	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	

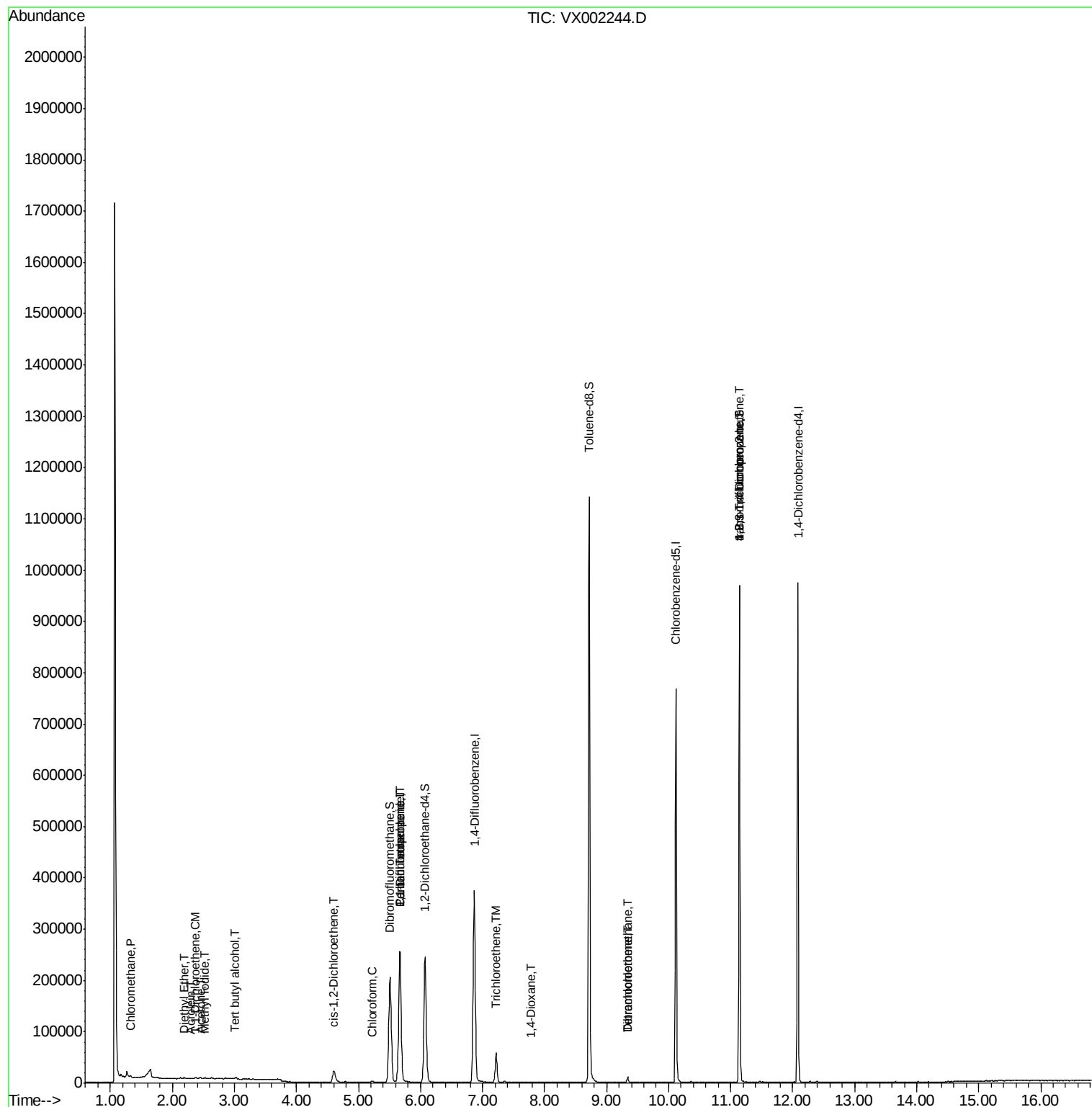
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	110	Below Cal	#	41
3) Chloromethane	1.33	50	1774	0.45	ug/l	95
8) Diethyl Ether	2.19	74	673	0.33	ug/l	85
10) Methyl Iodide	2.52	142	1719	0.40	ug/l	# 83
11) Tert butyl alcohol	3.02	59	1948	2.19	ug/l	# 89
12) 1,1-Dichloroethene	2.38	96	766	0.26	ug/l	# 71
13) Acrolein	2.30	56	89	0.23	ug/l	# 1
16) Acetone	2.45	43	1967	1.12	ug/l	# 69
18) Methyl Acetate	2.80	43	243	Below Cal	#	66
20) Methylene Chloride	2.85	84	708	Below Cal	#	78
21) trans-1,2-Dichloroethene	3.17	96	441	Below Cal	#	68
27) cis-1,2-Dichloroethene	4.60	96	12028	3.12	ug/l	69
28) Bromochloromethane	5.02	49	87	Below Cal	#	14
30) Chloroform	5.22	83	1725	0.26	ug/l	95
36) 1,1-Dichloropropene	5.67	75	18025	3.57	ug/l	# 52
38) Carbon Tetrachloride	5.66	117	24130	4.10	ug/l	# 15
41) Methacrylonitrile	5.06	41	57	Below Cal	#	33
44) Trichloroethene	7.22	130	21373	4.96	ug/l	95
49) 1,4-Dioxane	7.78	88	53	0.54	ug/l	# 1
60) Dibromochloromethane	9.34	129	1814	0.39	ug/l	# 11
64) Tetrachloroethene	9.34	164	2097	0.43	ug/l	92
74) N-amyl acetate	6.48	43	254	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.38	83	39	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	127693	27.50	ug/l	# 32
79) 2-Chlorotoluene	11.42	91	297	Below Cal		72
81) trans-1,4-Dichloro-2-buten	11.14	75	127693	66.08	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# 833

Delta R.T. -0.01 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

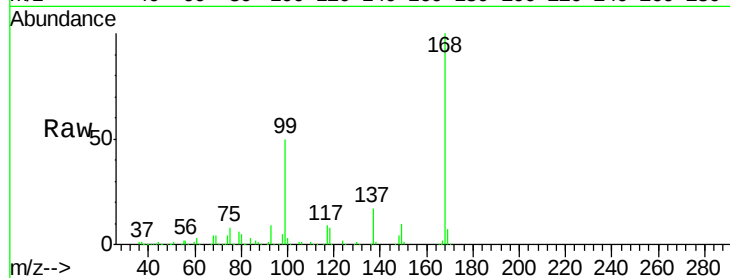
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 253875

Ion Ratio Lower Upper

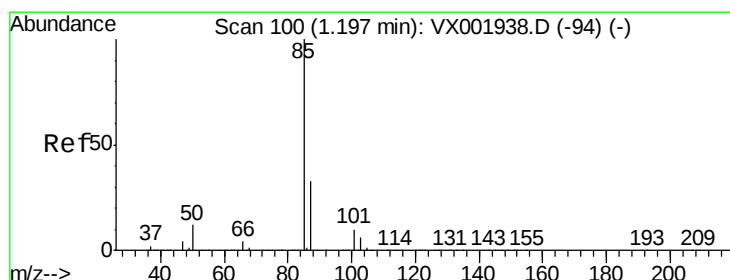
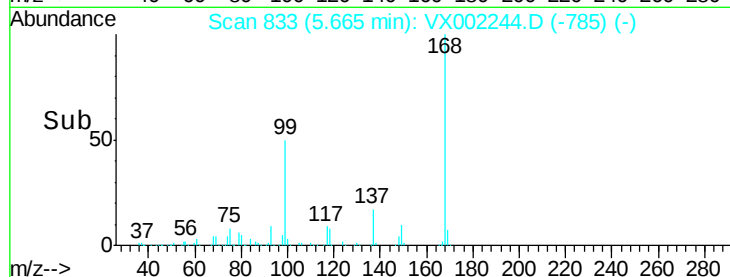
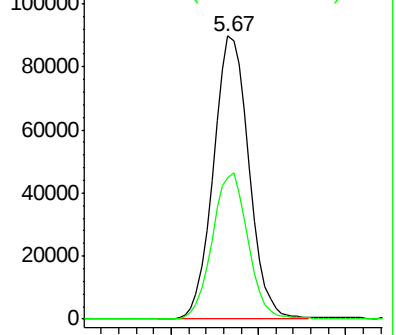
168 100

99 50.0 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: 1.21 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX002244.D

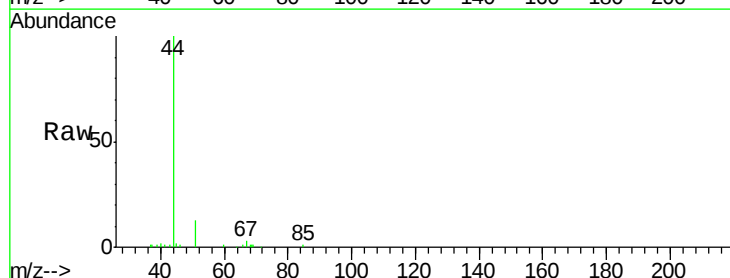
Acq: 02 Jun 2018 17:24

Tgt Ion: 85 Resp: 110

Ion Ratio Lower Upper

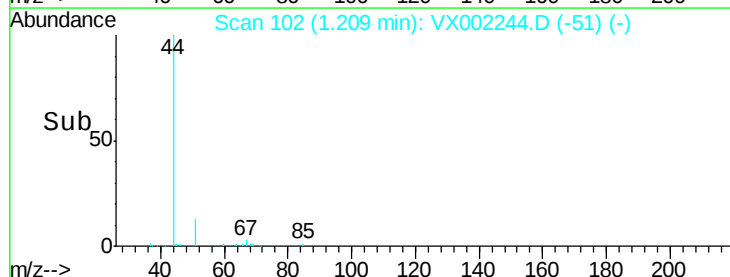
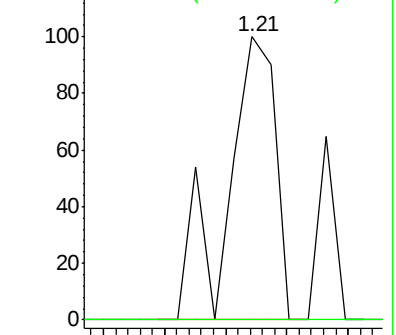
85 100

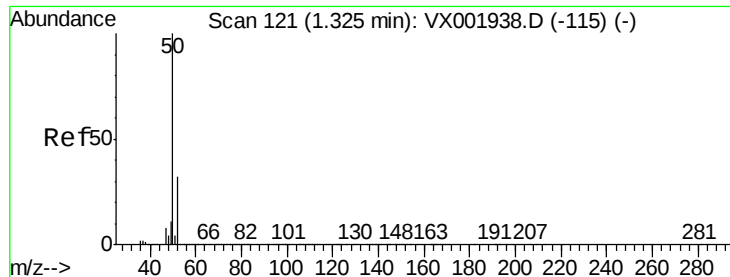
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.45 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :

MSVOA_X

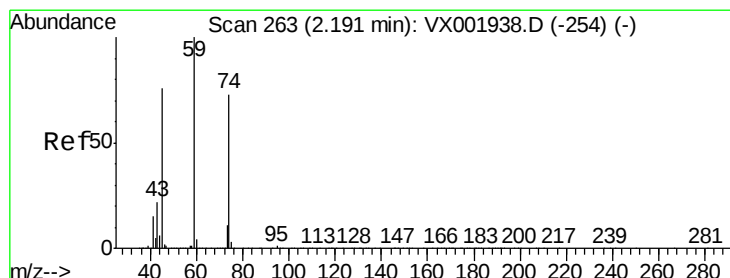
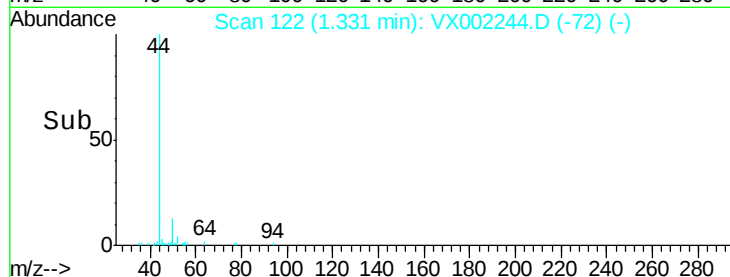
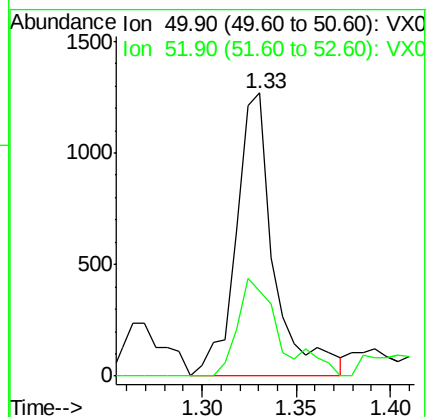
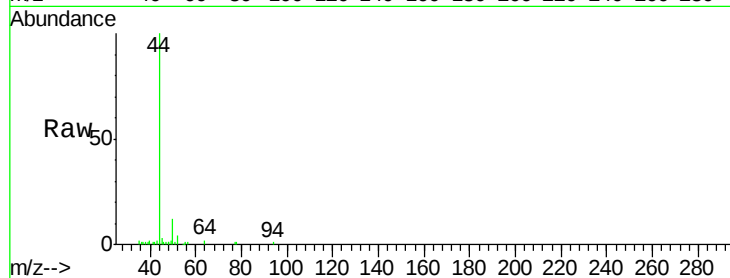
ClientSampled :

Tot Ion: 50 Resp: 1774

Ion Ratio Lower Upper

50 100

52 30.0 26.0 39.0



#8

Diethyl Ether

Concen: 0.33 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002244.D

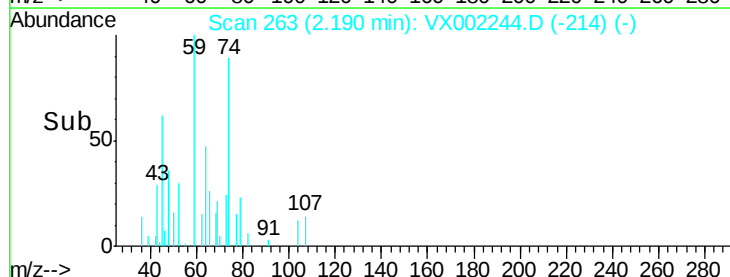
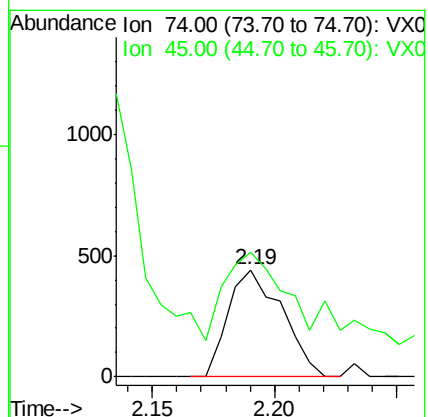
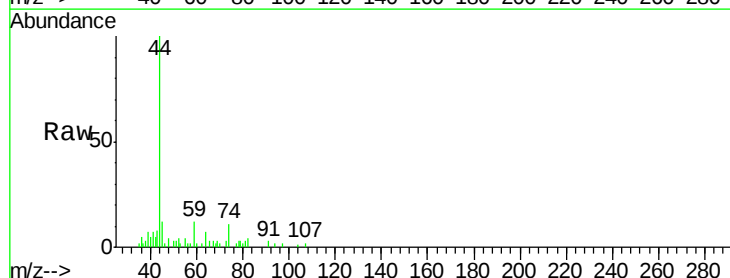
Acq: 02 Jun 2018 17:24

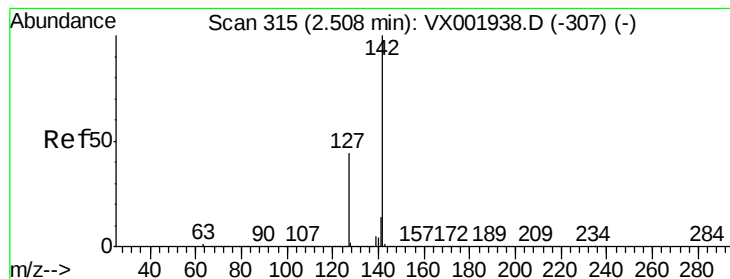
Tgt Ion: 74 Resp: 673

Ion Ratio Lower Upper

74 100

45 118.6 51.5 154.7





#10

Methvl Iodide

Concen: 0.40 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :

MSVOA_X

ClientSampleId :

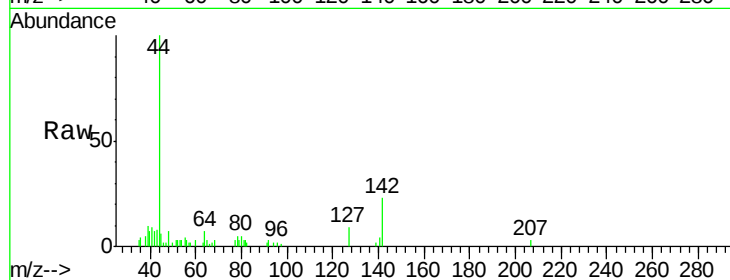
Tot Ion:142 Resp: 1719

Ion Ratio Lower Upper

142 100

127 56.1 35.5 53.3#

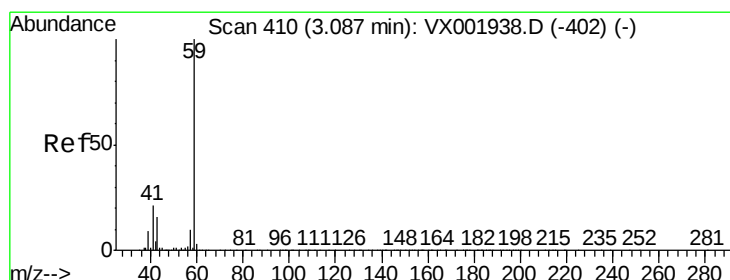
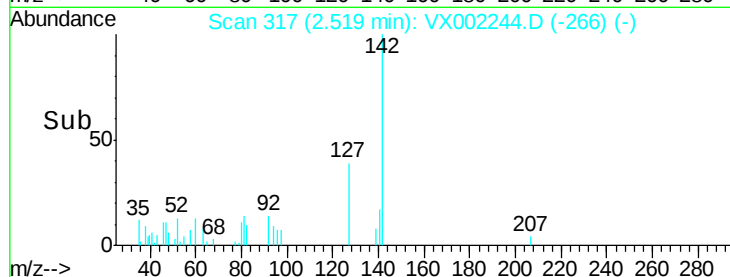
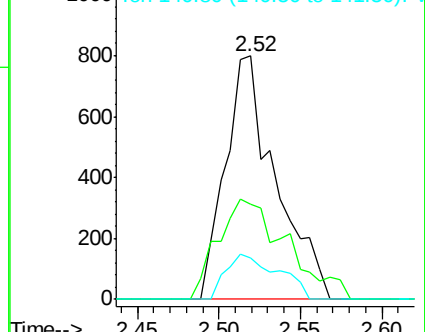
141 19.3 11.3 16.9#



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: 2.19 ug/l

RT: 3.02 min Scan# 399

Delta R.T. -0.07 min

Lab File: VX002244.D

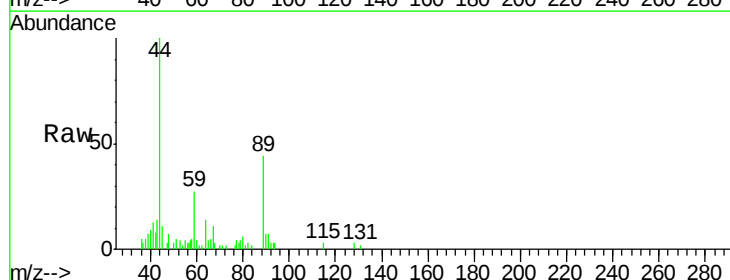
Acq: 02 Jun 2018 17:24

Tgt Ion: 59 Resp: 1948

Ion Ratio Lower Upper

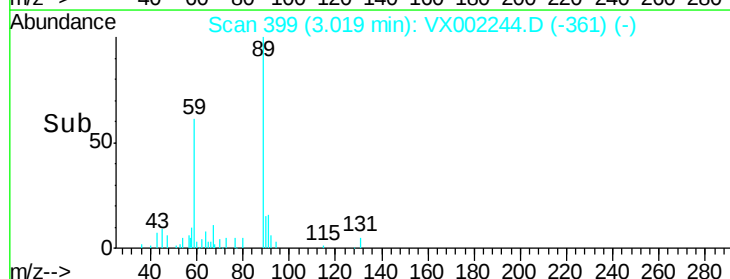
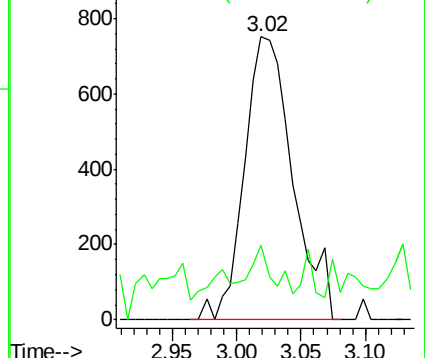
59 100

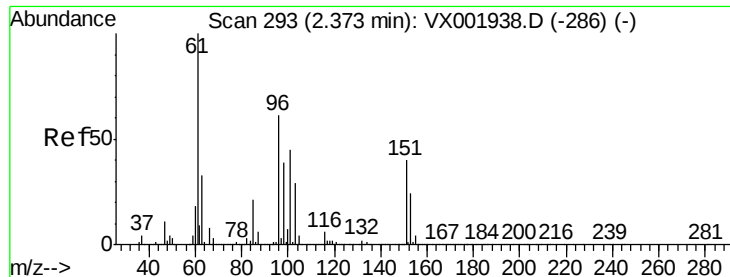
57 6.9 8.9 13.3#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.26 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :
MSVOA_X
ClientSampleId :

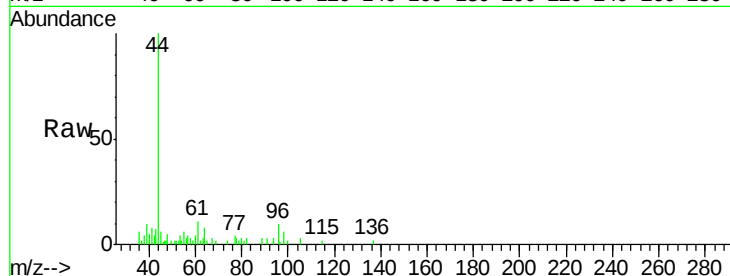
Tot Ion: 96 Resp: 766

Ion Ratio Lower Upper

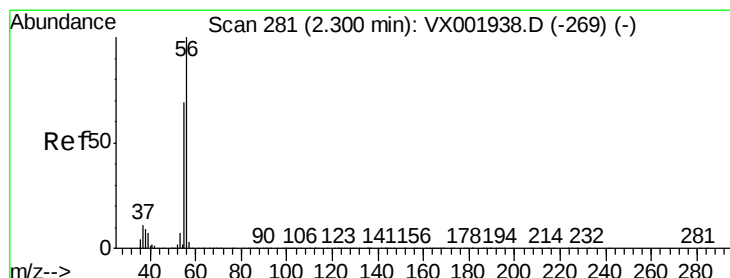
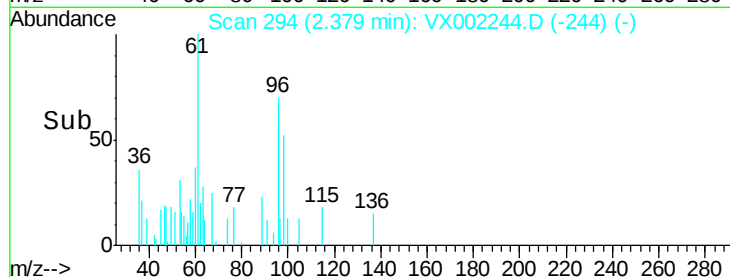
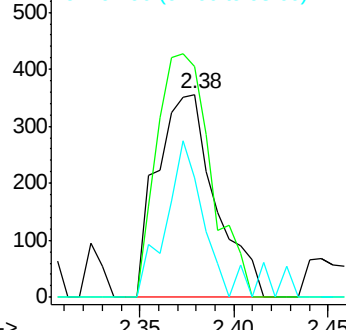
96 100

61 114.0 131.7 197.5#

98 59.0 51.6 77.4



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



#13

Acrolein

Concen: 0.23 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX002244.D

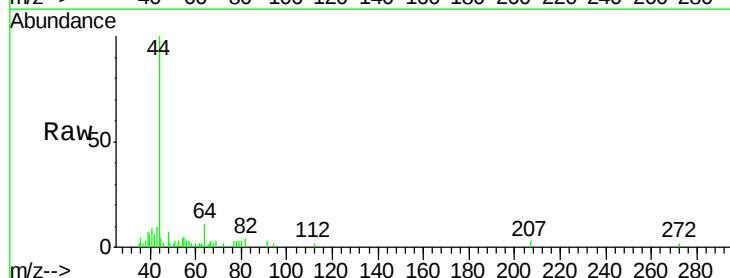
Acq: 02 Jun 2018 17:24

Tgt Ion: 56 Resp: 89

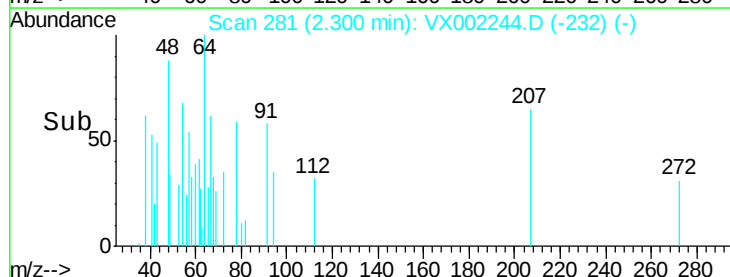
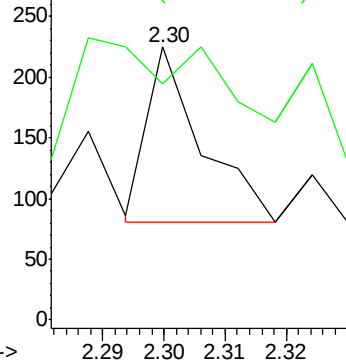
Ion Ratio Lower Upper

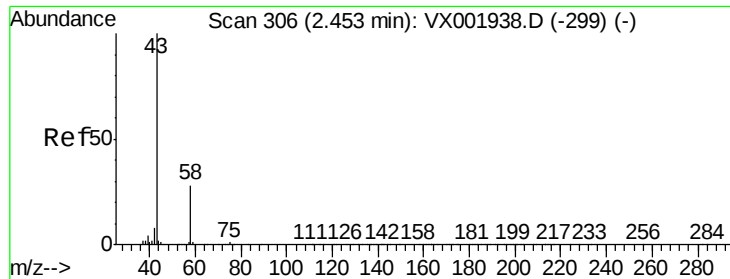
56 100

55 185.4 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.12 ua/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :

MSVOA_X

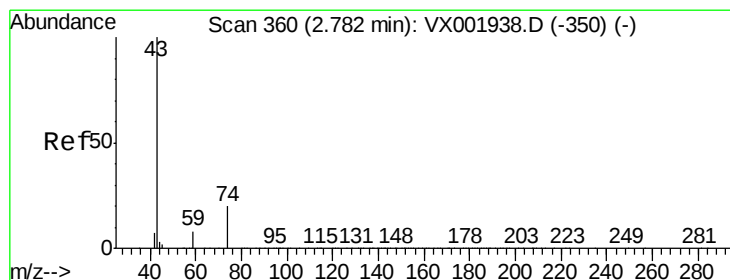
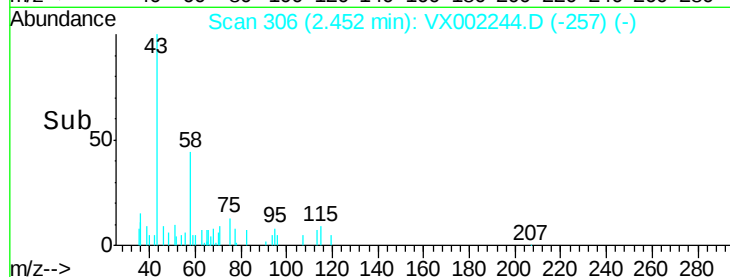
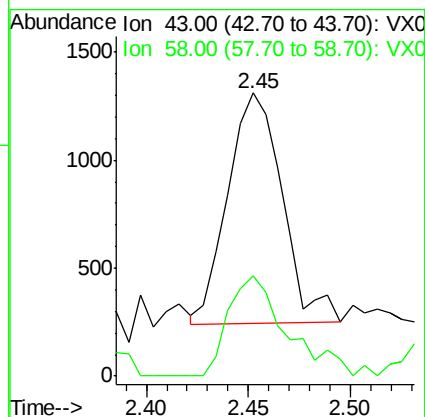
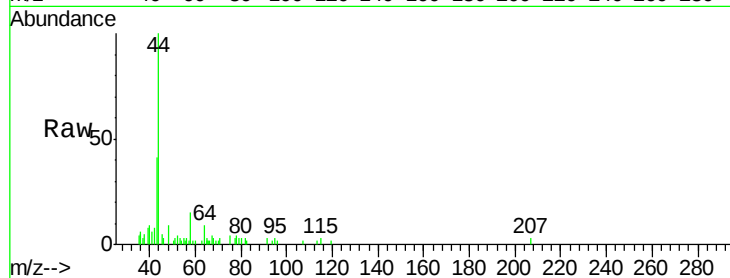
ClientSampleId :

Tot Ion: 43 Resp: 1967

Ion Ratio Lower Upper

43 100

58 44.0 22.3 33.5#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.80 min Scan# 363

Delta R.T. 0.02 min

Lab File: VX002244.D

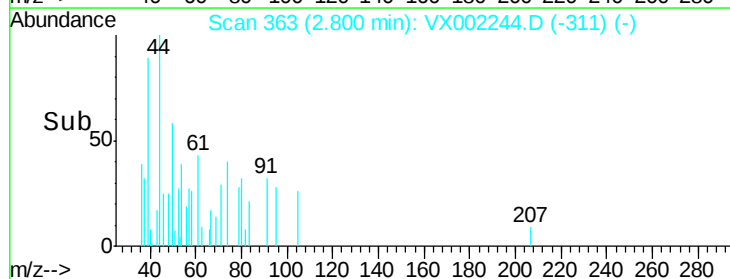
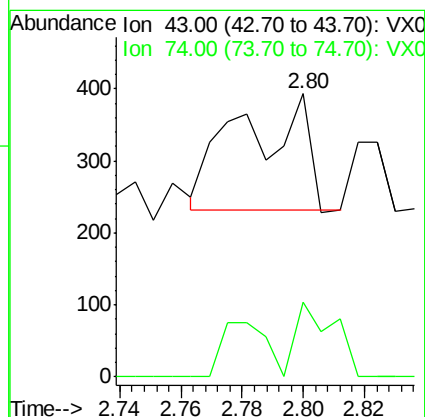
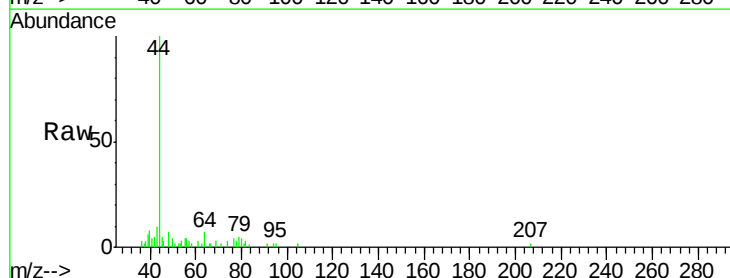
Acq: 02 Jun 2018 17:24

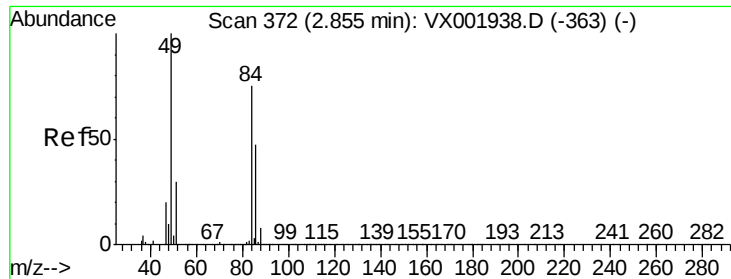
Tgt Ion: 43 Resp: 243

Ion Ratio Lower Upper

43 100

74 37.0 16.8 25.2#

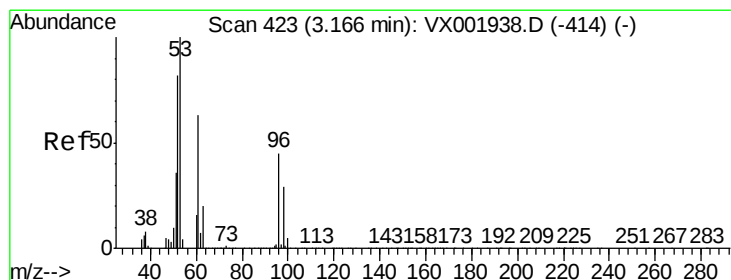
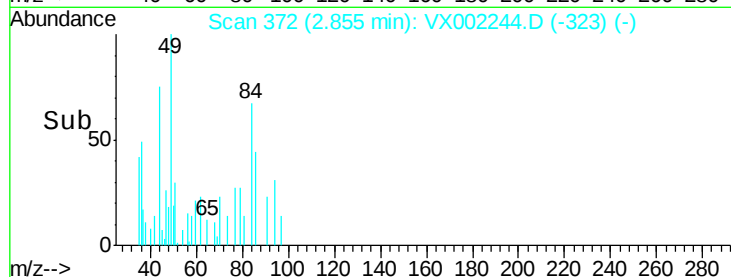
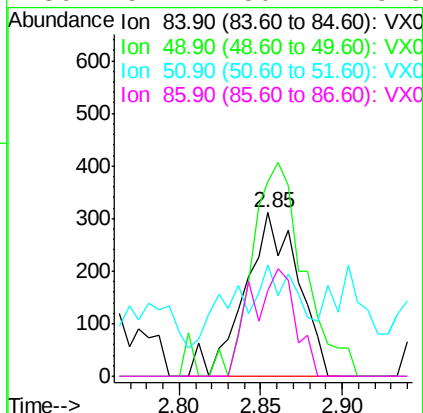
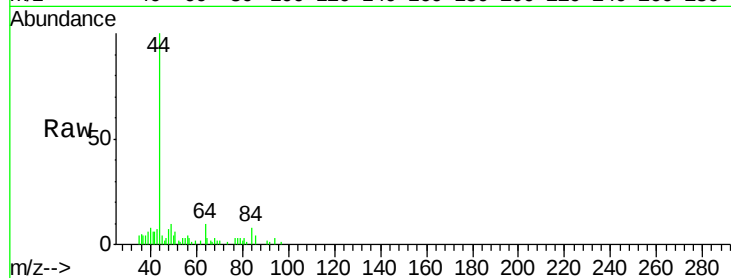




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX002244.D
Acq: 02 Jun 2018 17:24

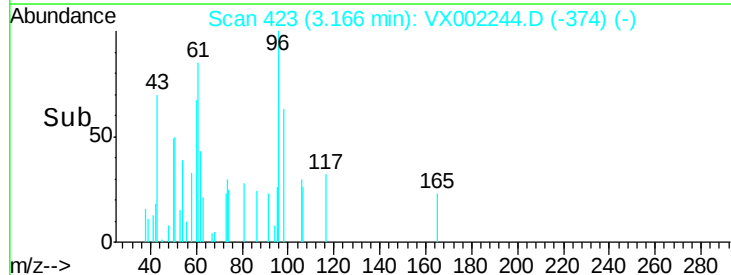
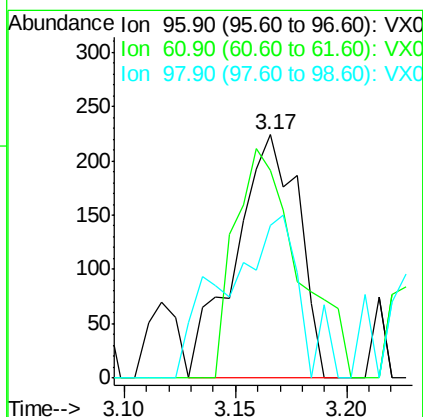
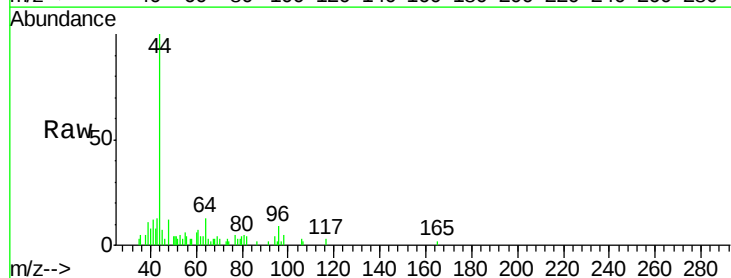
Instrument :
MSVOA_X
ClientSampleId :

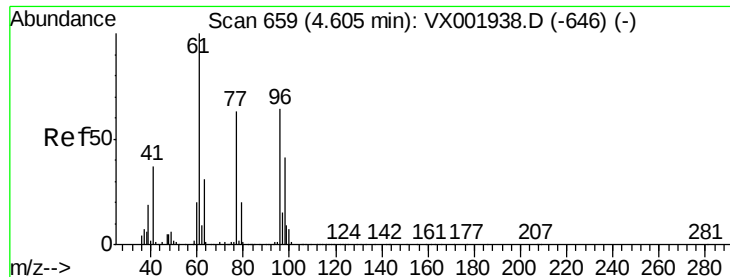
Tot Ion: 84 Resp: 708
Ion Ratio Lower Upper
84 100
49 102.3 107.2 160.8#
51 51.1 32.4 48.6#
86 52.4 50.4 75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX002244.D
Acq: 02 Jun 2018 17:24

Tgt Ion: 96 Resp: 441
Ion Ratio Lower Upper
96 100
61 85.3 113.3 169.9#
98 62.5 51.7 77.5



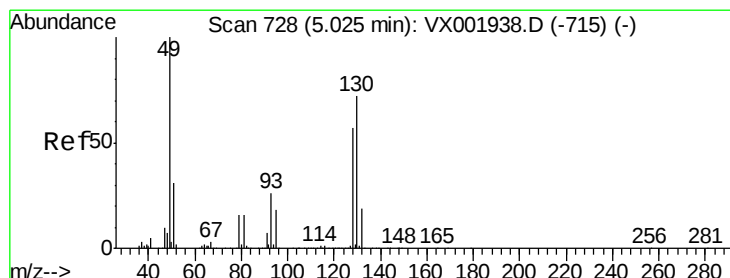
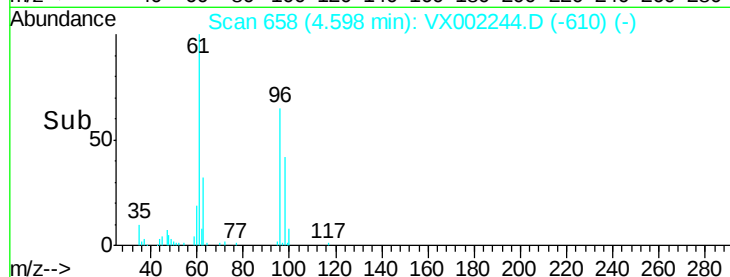
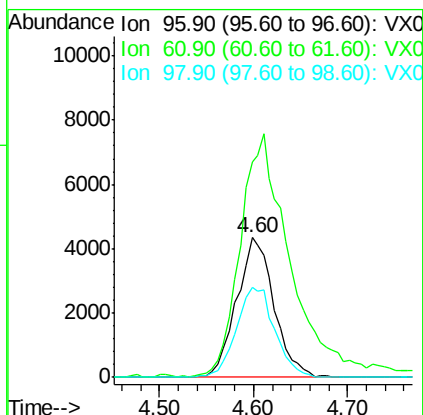
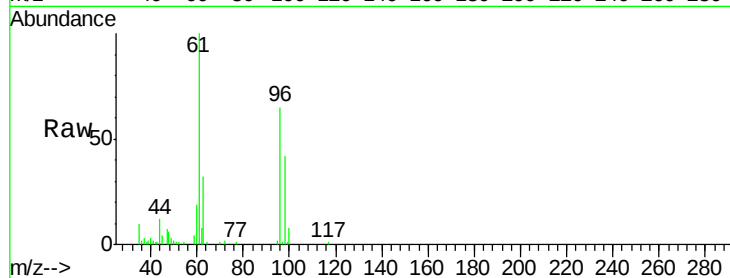


#27

cis-1,2-Dichloroethene
 Concen: 3.12 ug/l
 RT: 4.60 min Scan# 658
 Delta R.T. -0.01 min
 Lab File: VX002244.D
 Acq: 02 Jun 2018 17:24

Instrument :
 MSVOA_X
 ClientSampled :

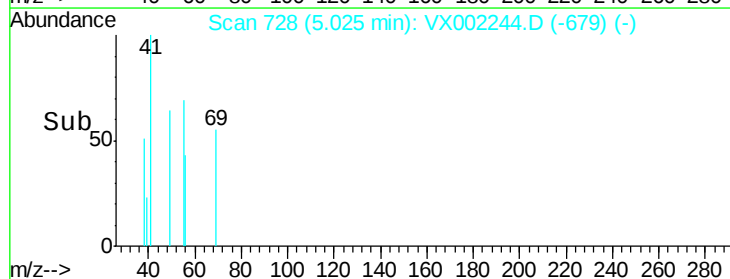
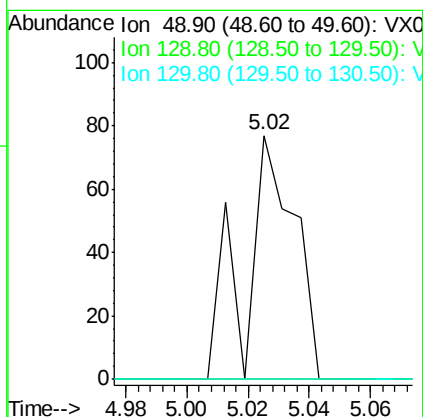
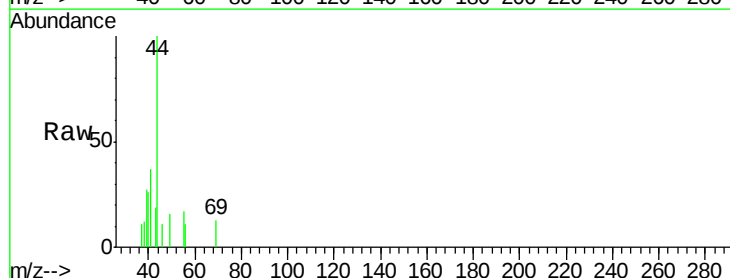
Tot Ion	Ratio	Lower	Upper
96	100		
61	232.6	0.0	348.4
98	66.1	0.0	128.6

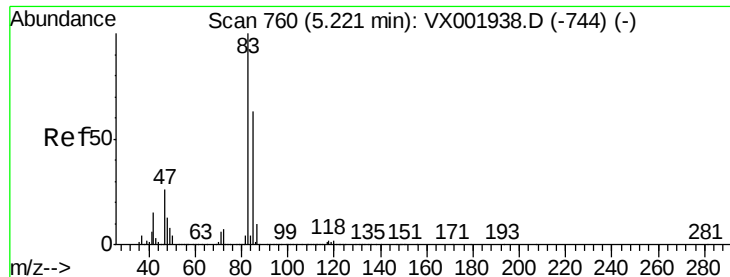


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 728
 Delta R.T. -0.00 min
 Lab File: VX002244.D
 Acq: 02 Jun 2018 17:24

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





#30

Chloroform

Concen: 0.26 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :

MSVOA_X

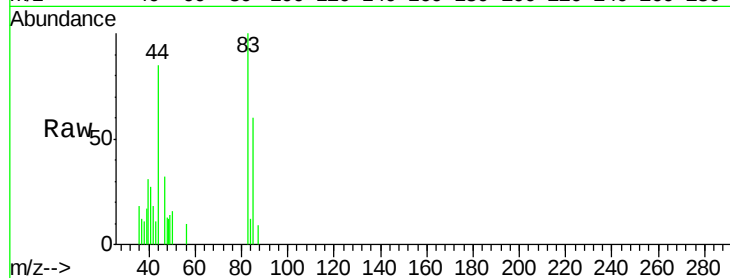
ClientSampleId :

Tot Ion: 83 Resp: 1725

Ion Ratio Lower Upper

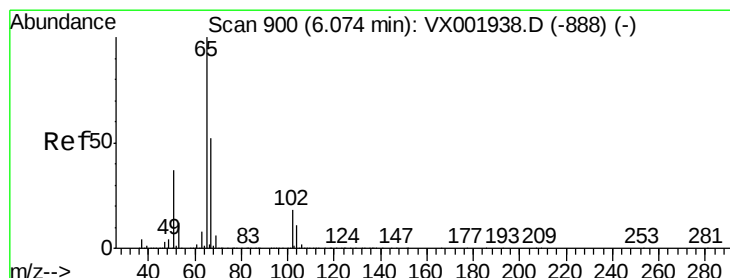
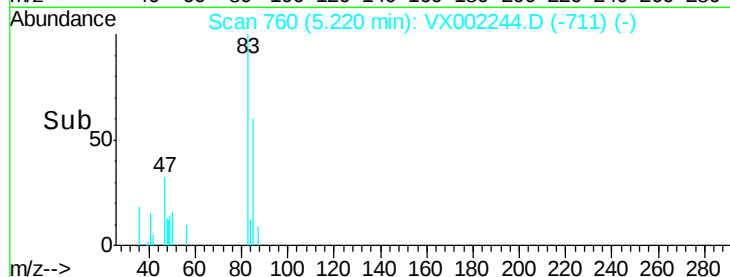
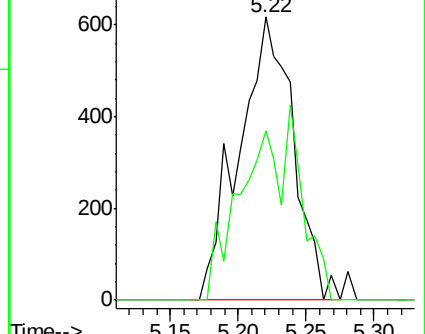
83 100

85 59.8 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.35 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002244.D

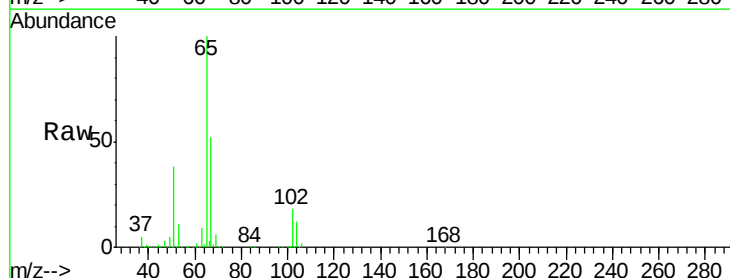
Acq: 02 Jun 2018 17:24

Tgt Ion: 65 Resp: 233028

Ion Ratio Lower Upper

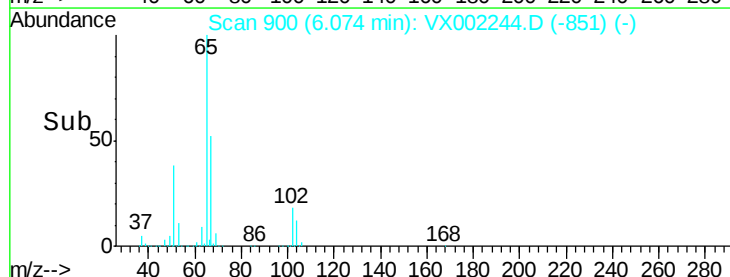
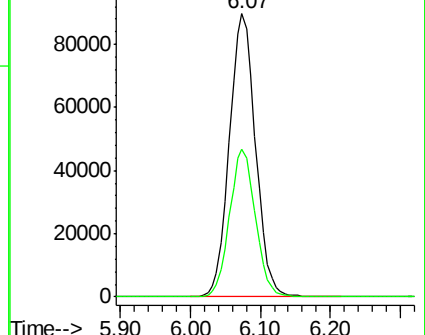
65 100

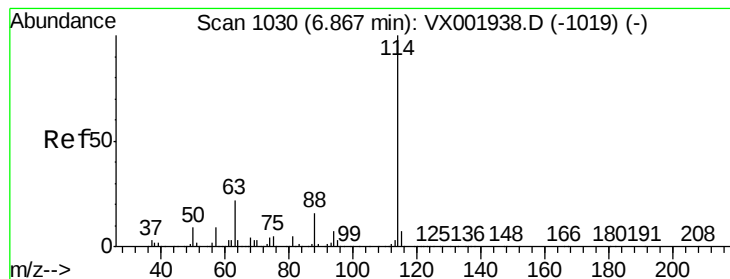
67 51.3 0.0 104.0



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: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :

MSVOA_X

ClientSampleId :

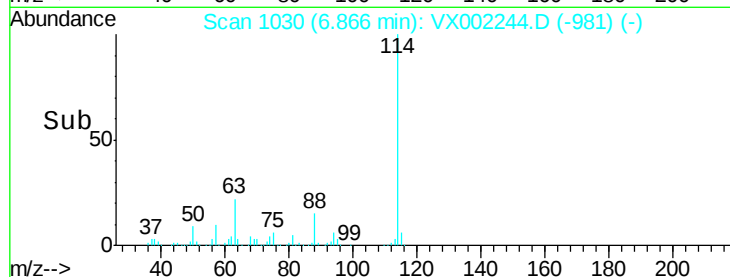
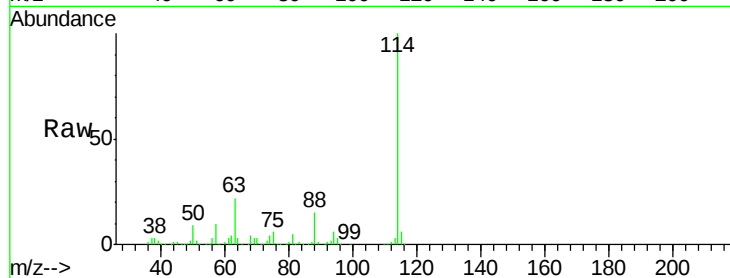
Tot Ion:114 Resp: 363184

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.2

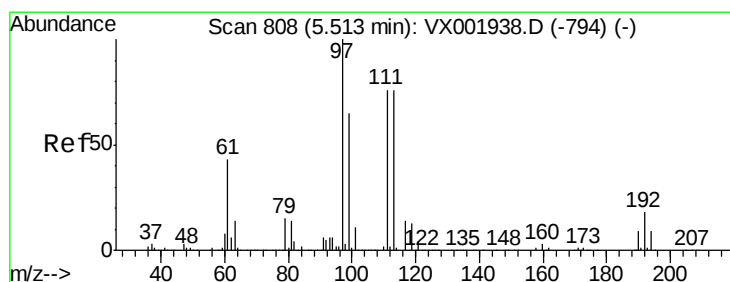
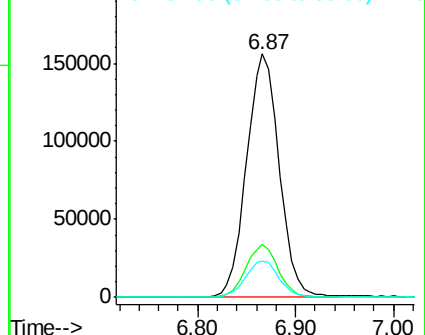
88 15.1 0.0 31.6



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: 45.92 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

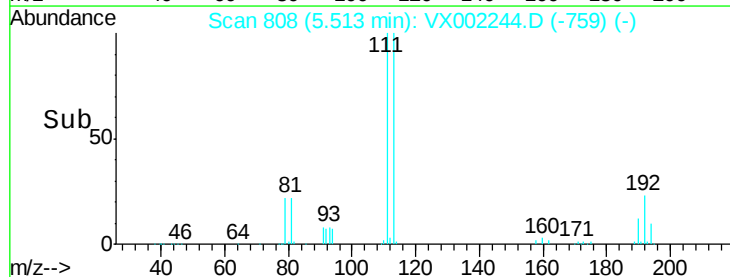
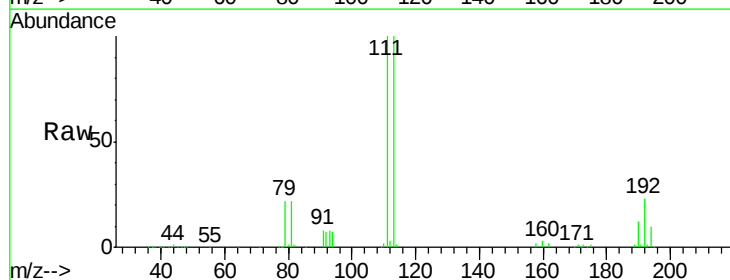
Tgt Ion:113 Resp: 166789

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

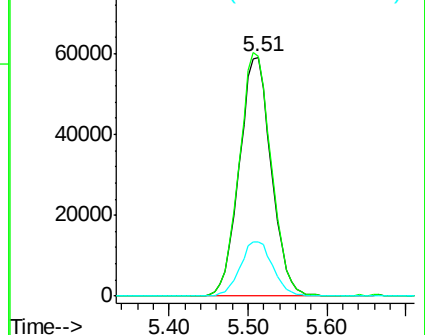
192 23.3 18.9 28.3

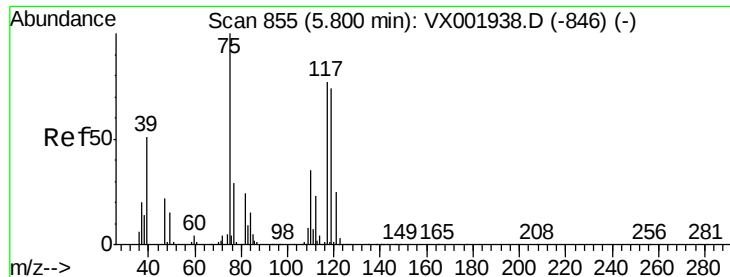


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

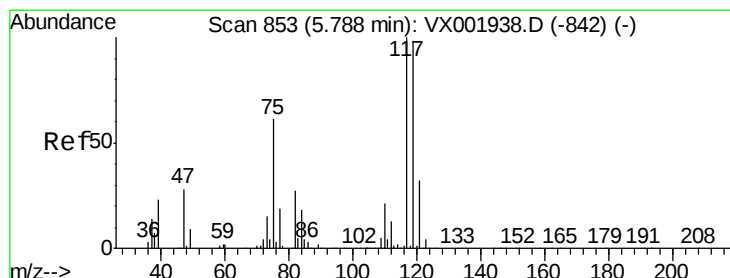
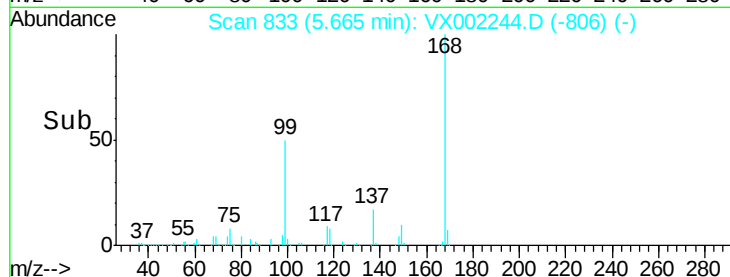
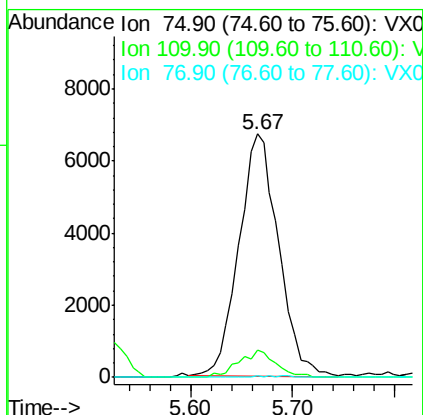
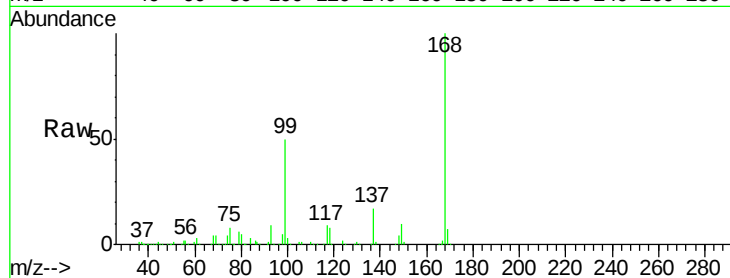




#36
 1,1-Dichloropropene
 Concen: 3.57 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002244.D
 Acq: 02 Jun 2018 17:24

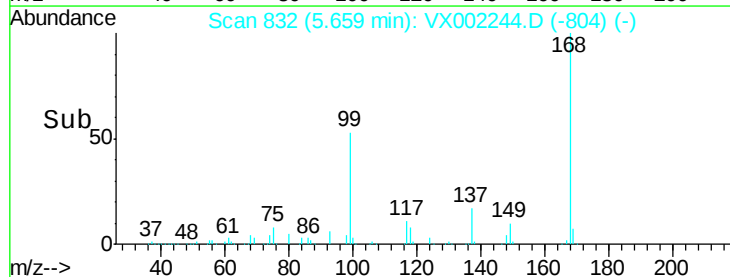
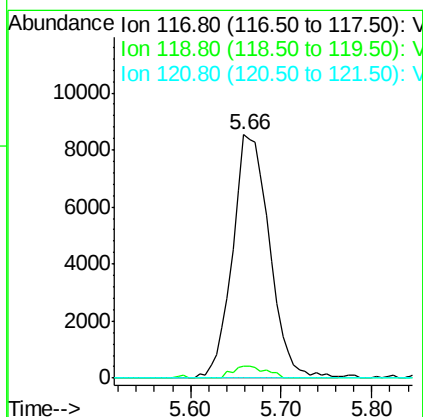
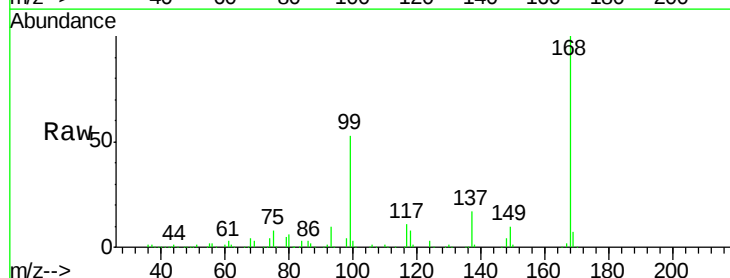
Instrument :
 MSVOA_X
 ClientSampled :

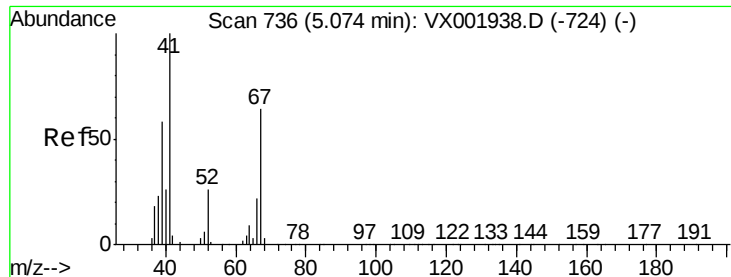
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	17.4	52.2#
77	0.1	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.10 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.13 min
 Lab File: VX002244.D
 Acq: 02 Jun 2018 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	78.5	117.7#
121	0.0	25.5	38.3#

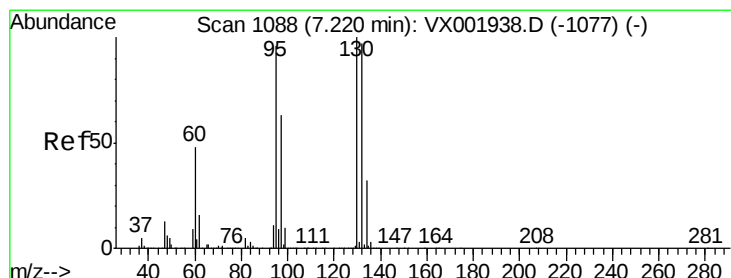
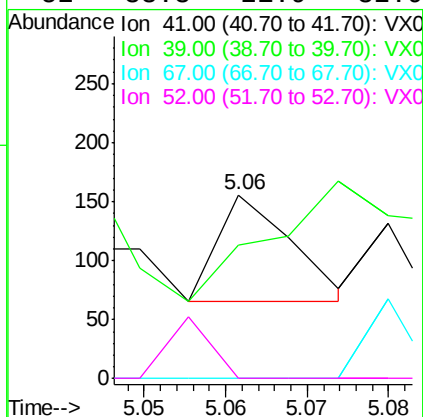
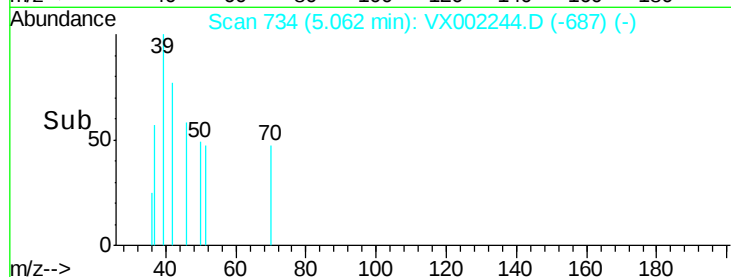
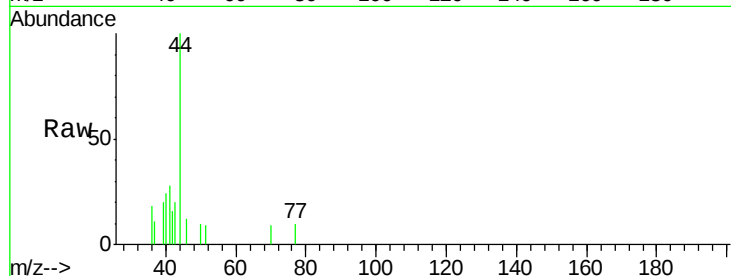




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.06 min Scan# 734
Delta R.T. -0.01 min
Lab File: VX002244.D
Acq: 02 Jun 2018 17:24

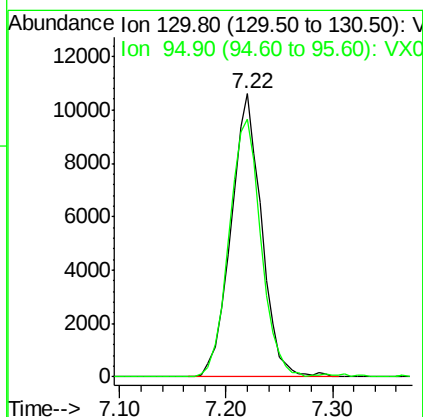
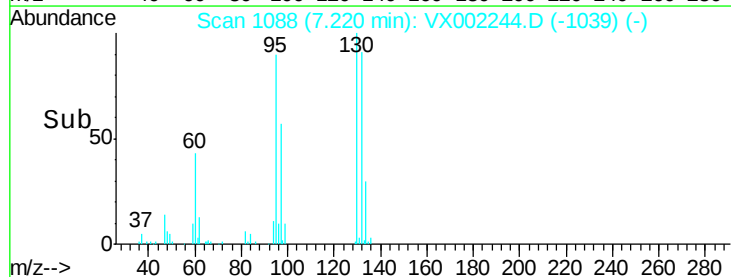
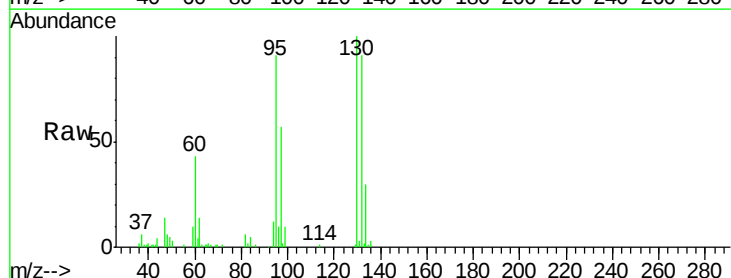
Instrument :
MSVOA_X
ClientSampleId :

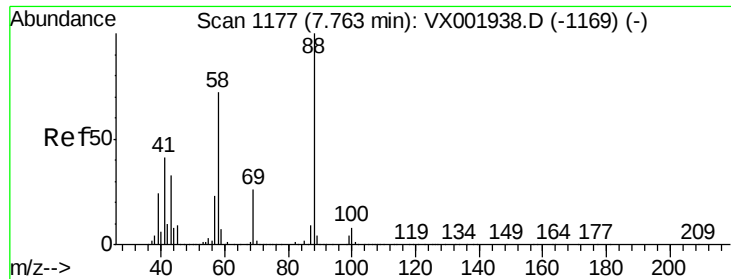
Tot Ion:	41	Resp:	57
Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.0	69.0#
67	0.0	50.6	75.8#
52	33.3	21.9	32.9#



#44
Trichloroethene
Concen: 4.96 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VX002244.D
Acq: 02 Jun 2018 17:24

Tgt Ion:	130	Resp:	21373
Ion	Ratio	Lower	Upper
130	100		
95	90.9	0.0	192.0





#49

1,4-Dioxane

Concen: 0.54 ug/l

RT: 7.78 min Scan# 1180

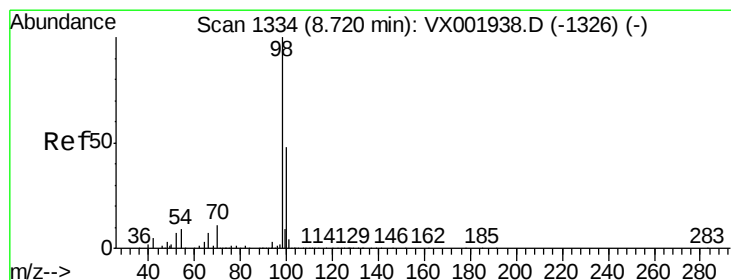
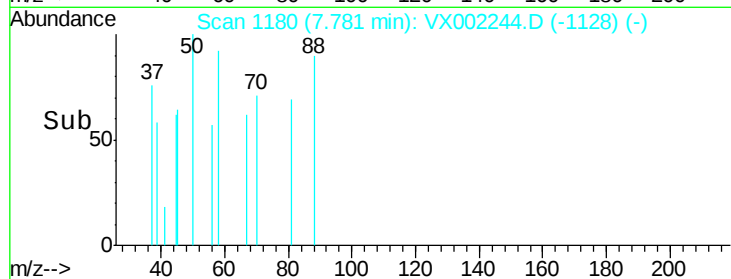
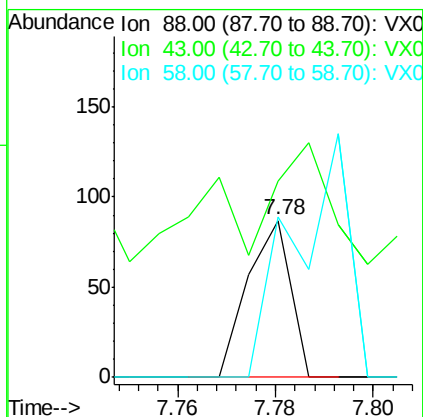
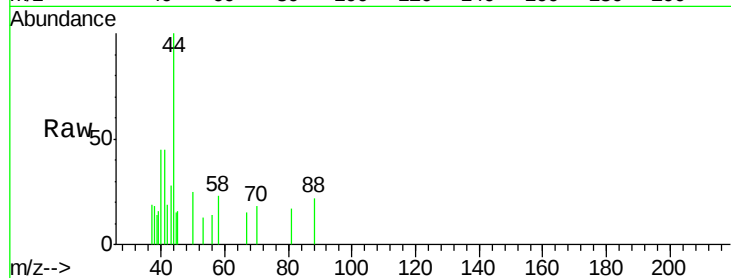
Delta R.T. 0.02 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	88	Resp	53
Ion	Ratio	Lower	Upper
88	100		
43	267.9	29.8	44.8#
58	196.2	58.7	88.1#



#50

Toluene-d8

Concen: 50.43 ug/l

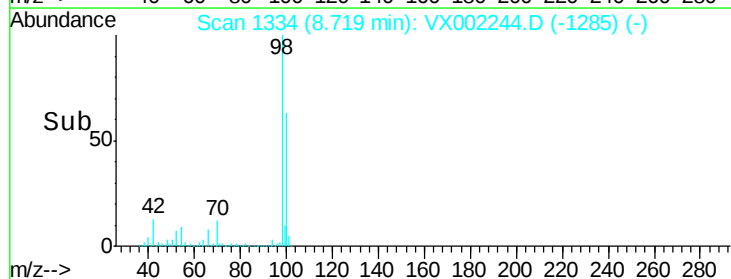
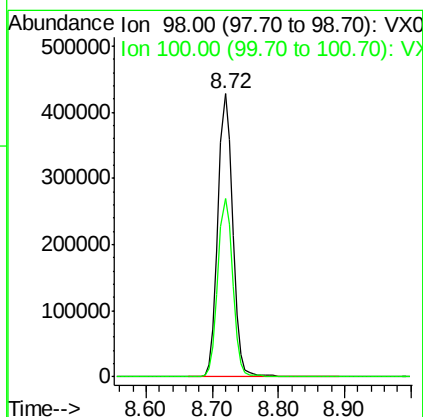
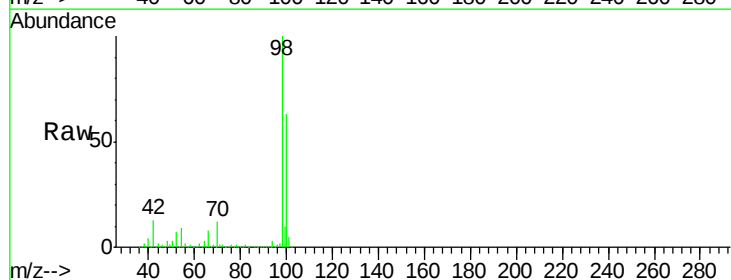
RT: 8.72 min Scan# 1334

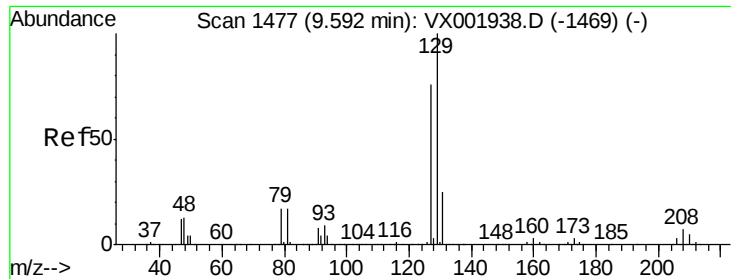
Delta R.T. 0.00 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Tgt Ion	98	Resp	663038
Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.5	77.3





#60

Dibromochloromethane

Concen: 0.39 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

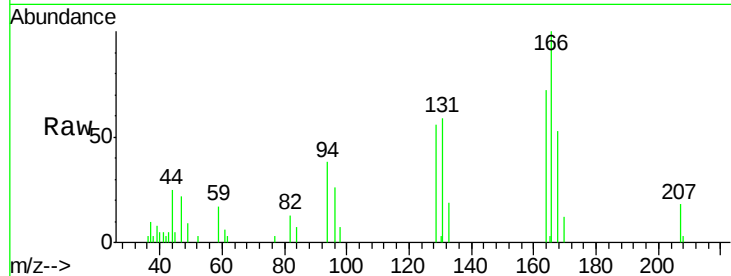
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 1814

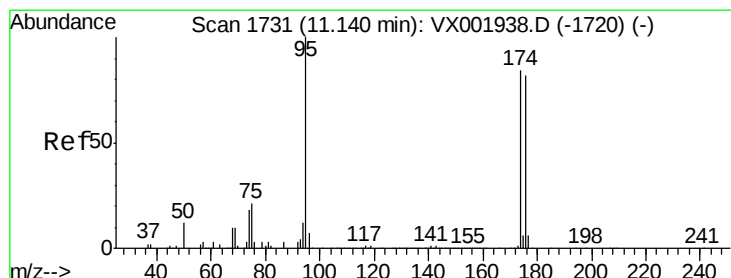
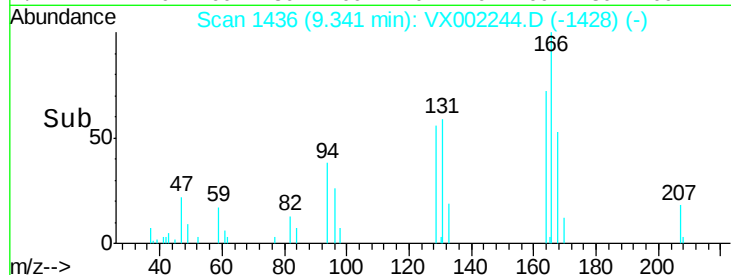
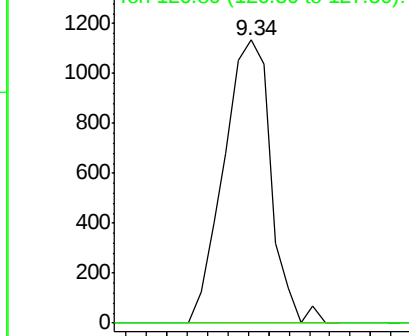
Ion Ratio Lower Upper

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: 45.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

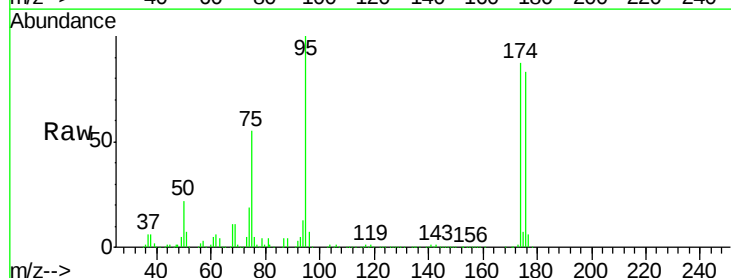
Tgt Ion: 95 Resp: 235478

Ion Ratio Lower Upper

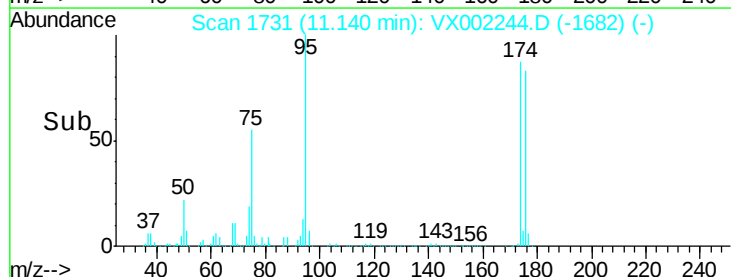
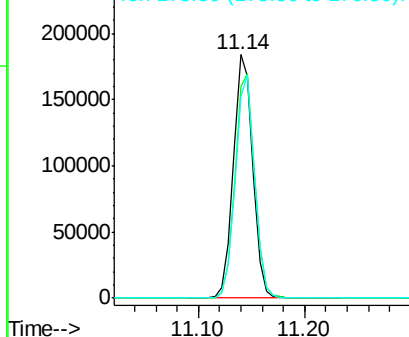
95 100

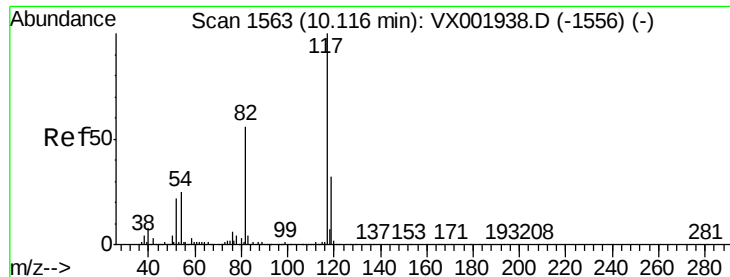
174 93.2 0.0 178.8

176 90.6 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: VX002244.D

Acq: 02 Jun 2018 17:24

Instrument :

MSVOA_X

ClientSampleId :

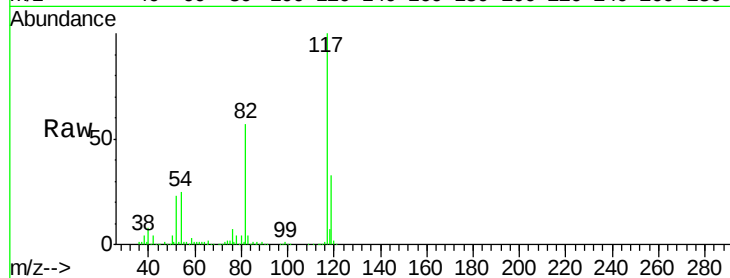
Tot Ion:117 Resp: 342362

Ion Ratio Lower Upper

117 100

82 57.3 44.8 67.2

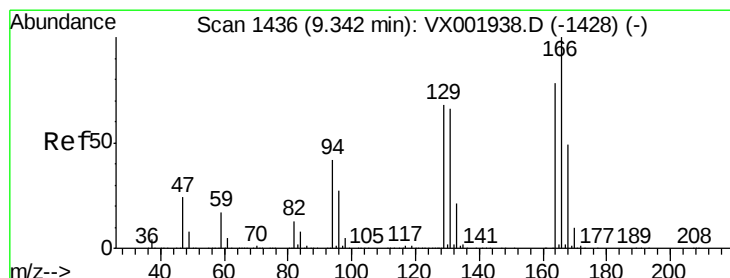
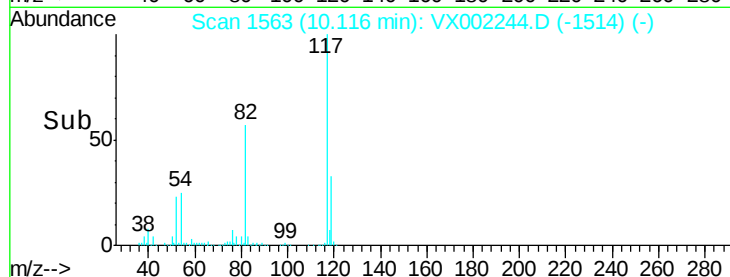
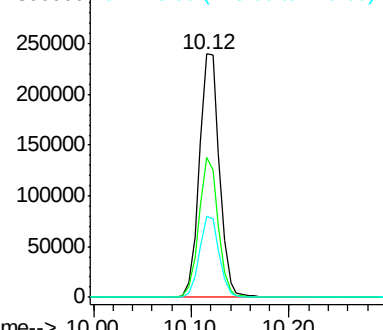
119 33.2 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.43 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX002244.D

Acq: 02 Jun 2018 17:24

Tgt Ion:164 Resp: 2097

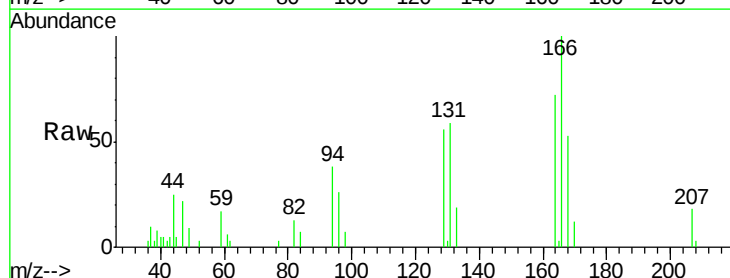
Ion Ratio Lower Upper

164 100

166 138.4 102.7 154.1

129 77.4 70.3 105.5

131 81.4 68.2 102.4

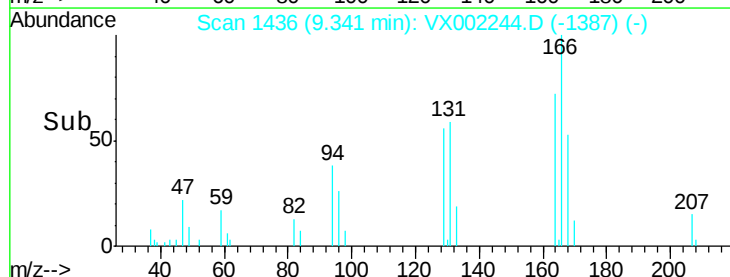
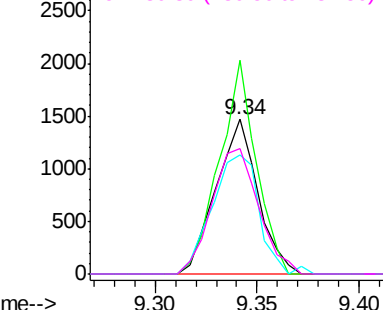


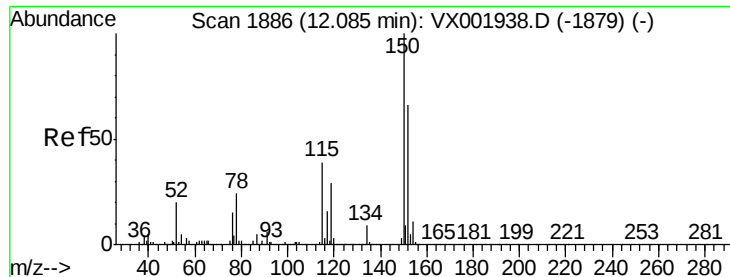
Abundance Ion 163.80 (163.50 to 164.50): V

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



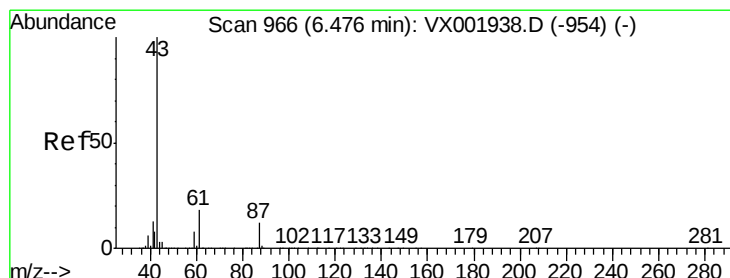
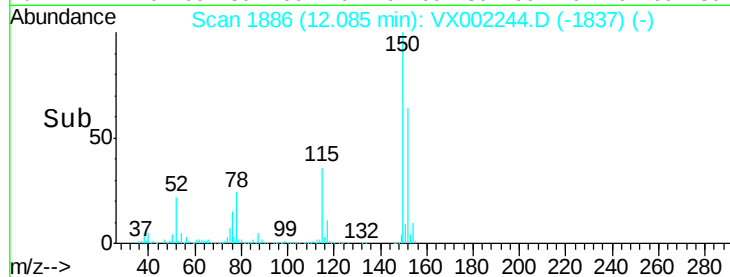
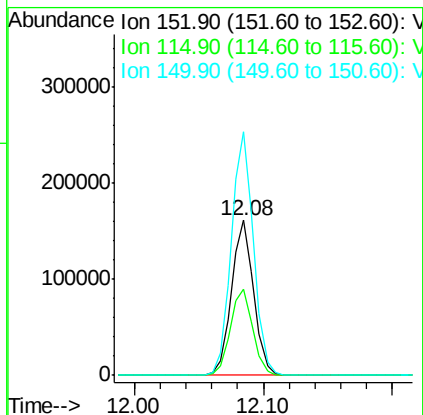
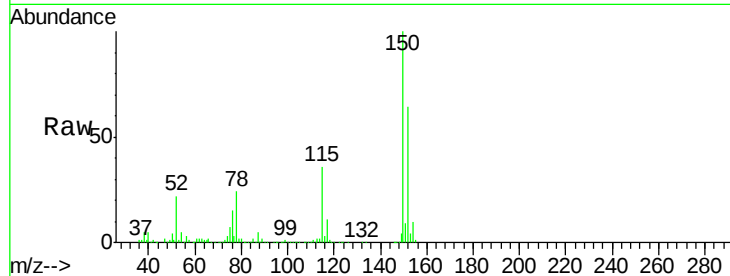


#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002244.D
Acq: 02 Jun 2018 17:24

Instrument :
MSVOA_X
ClientSampleId :

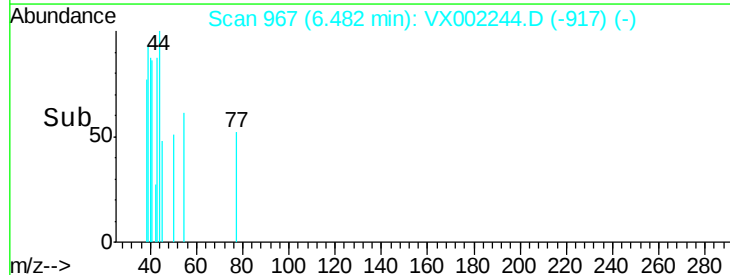
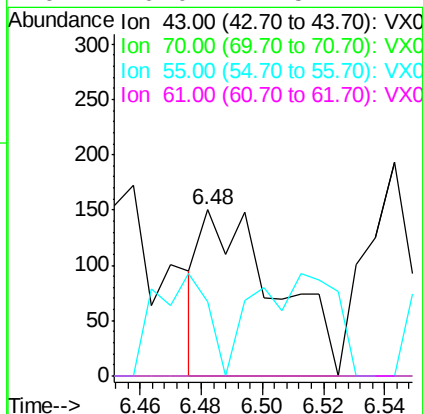
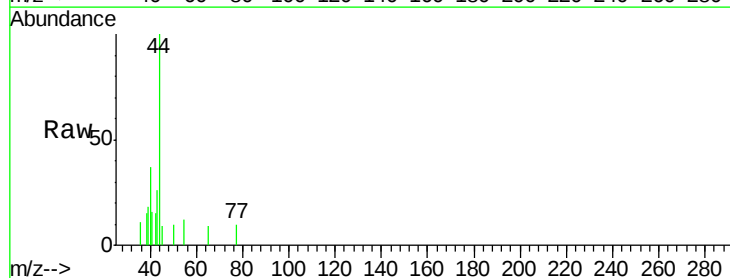
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.4	42.3	126.8
150	157.2	0.0	351.0

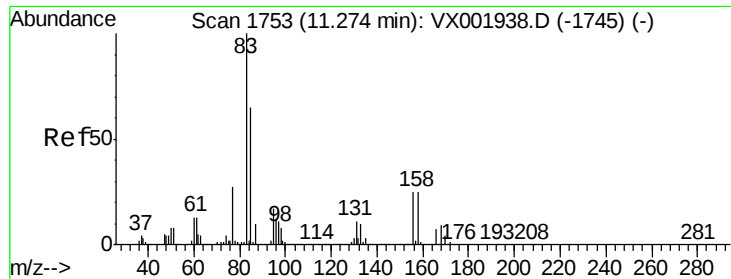


#74

N-ethyl acetate
Concen: Below Cal
RT: 6.48 min Scan# 967
Delta R.T. 0.01 min
Lab File: VX002244.D
Acq: 02 Jun 2018 17:24

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	43.7	0.1	0.1#
61	0.0	14.5	21.7#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.38 min Scan# 1771

Delta R.T. 0.11 min

Lab File: VX002244.D

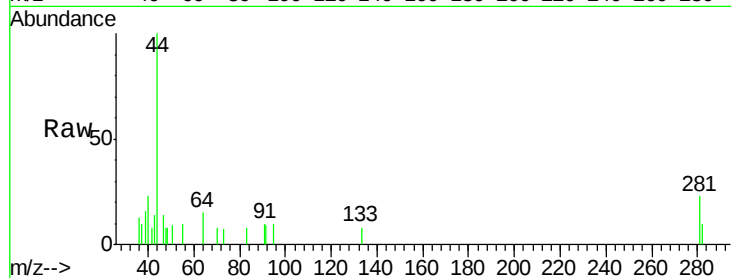
Acq: 02 Jun 2018 17:24

Instrument :

MSVOA_X

ClientSampleId :

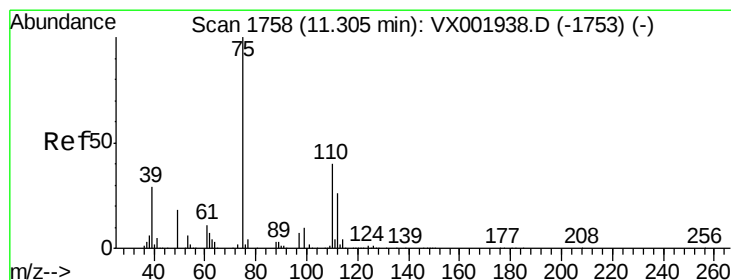
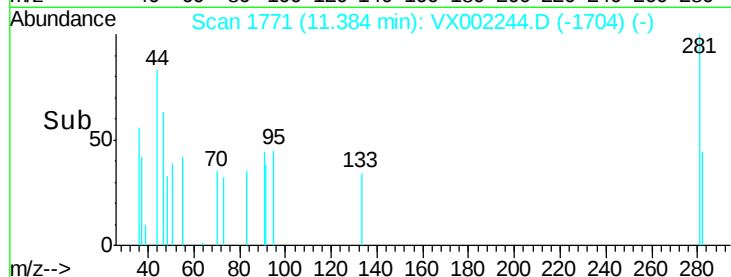
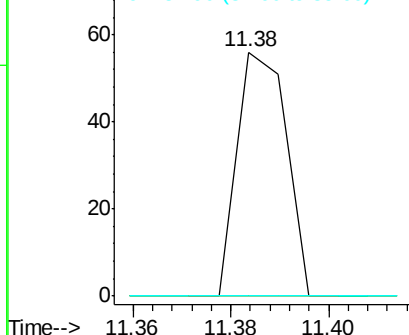
Tot Ion	83	Resp	39
Ion Ratio	100		
Lower		5.7	17.0#
Upper		32.6	97.7#



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: 27.50 ug/l

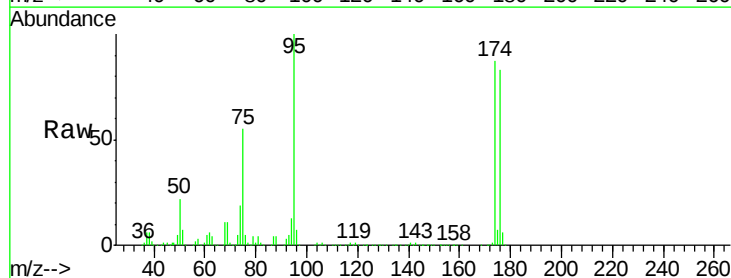
RT: 11.14 min Scan# 1731

Delta R.T. -0.17 min

Lab File: VX002244.D

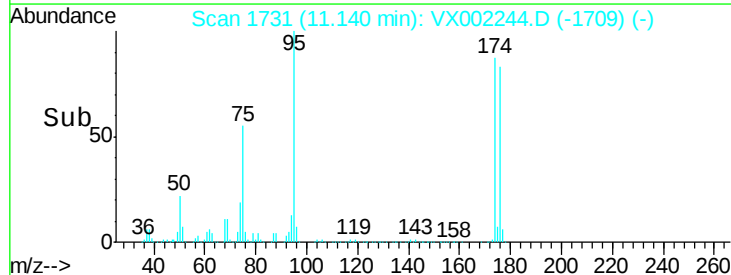
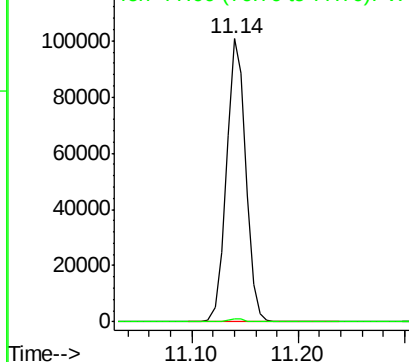
Acq: 02 Jun 2018 17:24

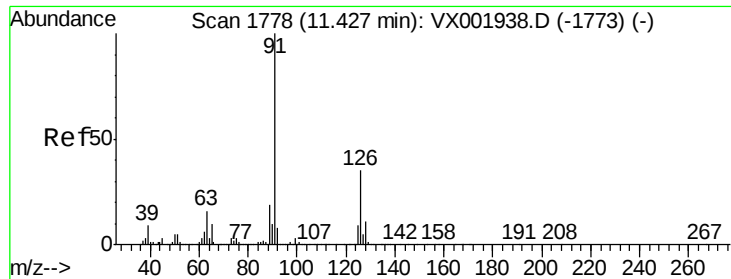
Tgt Ion	75	Resp	127693
Ion Ratio	100		
Lower		22.8	68.3#
Upper			



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

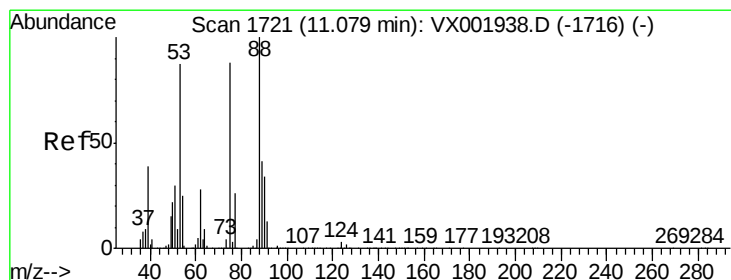
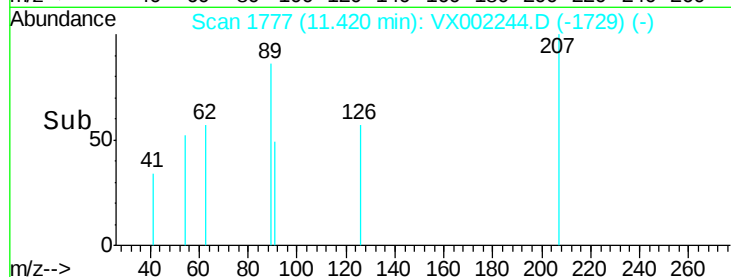
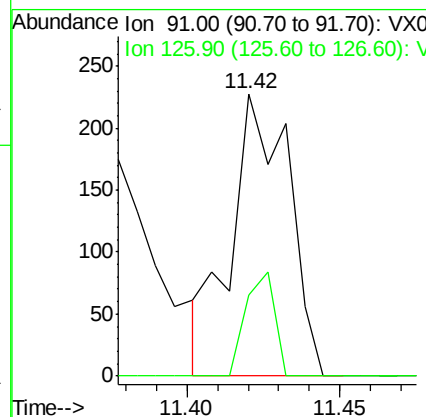
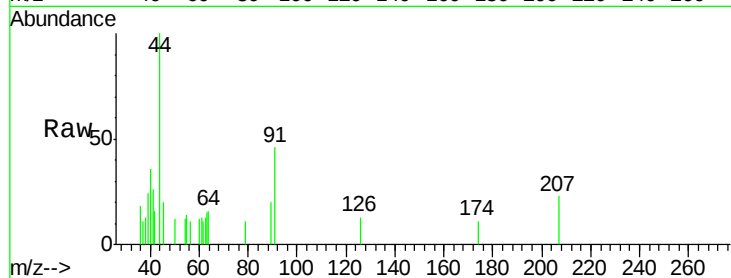




#79
2-Chlorotoluene
Concen: Below Cal
RT: 11.42 min Scan# 1777
Delta R.T. -0.01 min
Lab File: VX002244.D
Acq: 02 Jun 2018 17:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 91 Resp: 297
Ion Ratio Lower Upper
91 100
126 18.5 17.4 52.2



#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: VX002244.D
Acq: 02 Jun 2018 17:24

Tgt Ion: 75 Resp: 127693
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 39.4 59.2#

