

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX060118\
 Data File : VX002224.D
 Acq On : 01 Jun 2018 20:50
 Operator : JC/MD
 Sample : J3151-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 02 03:21:59 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	231440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	339462	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	306831	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	167411	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	230117	55.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.24%	
35) Dibromofluoromethane	5.51	113	167155	49.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.48%	
50) Toluene-d8	8.72	98	664384	54.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.12%	
62) 4-Bromofluorobenzene	11.14	95	230832	48.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.02%	

Target Compounds

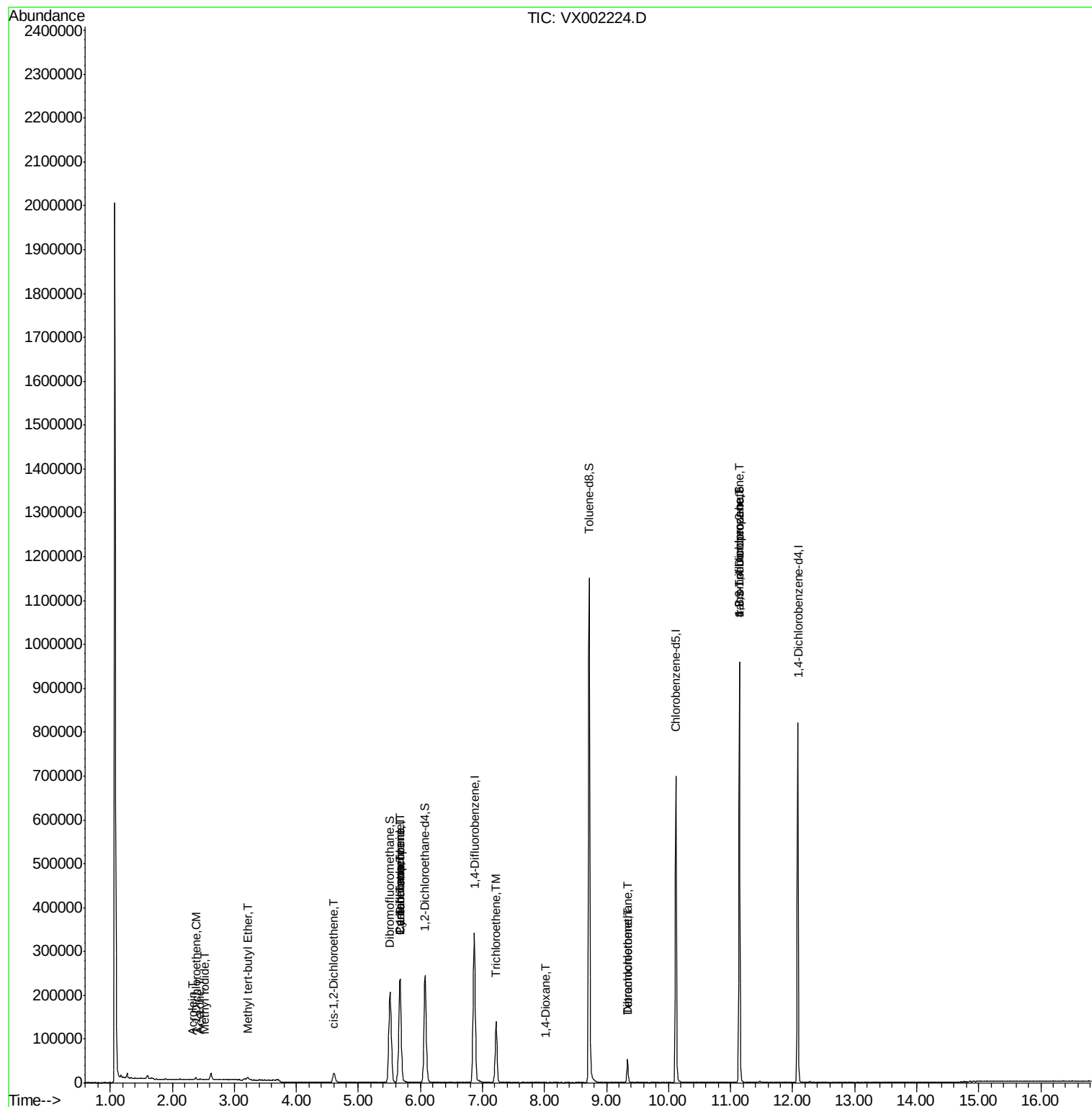
						Qvalue
2) Dichlorodifluoromethane	1.20	85	250	Below Cal		98
5) Bromomethane	1.61	94	233	Below Cal	#	2
10) Methyl Iodide	2.51	142	1322	0.34	ug/l #	89
12) 1,1-Dichloroethene	2.38	96	1264	0.47	ug/l	86
13) Acrolein	2.32	56	101	0.29	ug/l	96
16) Acetone	2.45	43	2300	1.44	ug/l #	84
18) Methyl Acetate	2.79	43	314	Below Cal	#	84
19) Methyl tert-butyl Ether	3.21	73	5311	0.52	ug/l	93
20) Methylene Chloride	2.85	84	367	Below Cal	#	76
21) trans-1,2-Dichloroethene	3.17	96	943	Below Cal	#	86
27) cis-1,2-Dichloroethene	4.60	96	11477	3.26	ug/l	79
28) Bromochloromethane	5.05	49	22	Below Cal	#	14
31) Cyclohexane	5.67	56	5591	0.98	ug/l #	9
36) 1,1-Dichloropropene	5.67	75	17049	3.61	ug/l #	52
38) Carbon Tetrachloride	5.67	117	22414	4.07	ug/l #	14
41) Methacrylonitrile	5.09	41	316	Below Cal	#	25
44) Trichloroethene	7.22	130	53446	13.26	ug/l	99
49) 1,4-Dioxane	8.02	88	22	0.24	ug/l #	1
60) Dibromochloromethane	9.34	129	9389	2.16	ug/l #	11
64) Tetrachloroethene	9.34	164	10205	2.32	ug/l	98
74) N-amyl acetate	6.49	43	353	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.15	83	345	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.14	75	125088	31.11	ug/l #	33
79) 2-Chlorotoluene	11.41	91	113	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	125088	74.76	ug/l #	10

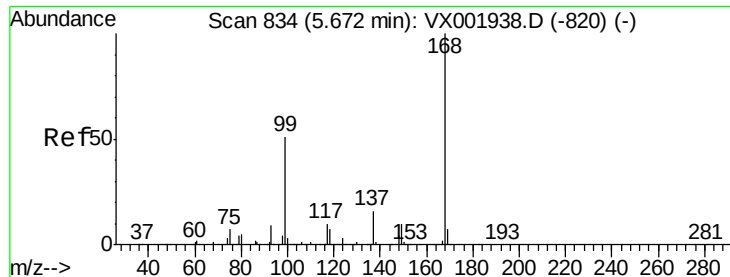
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 02 03:21:59 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Instrument :

MSVOA_X

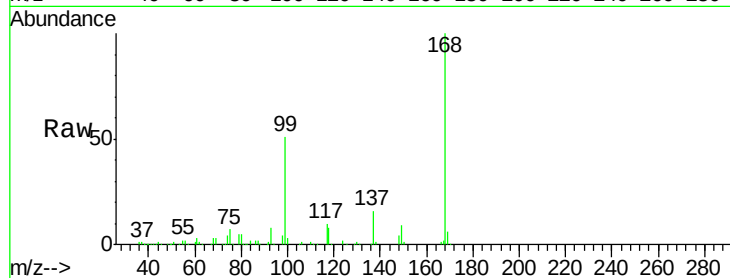
ClientSampleId :

Tot Ion:168 Resp: 231440

Ion Ratio Lower Upper

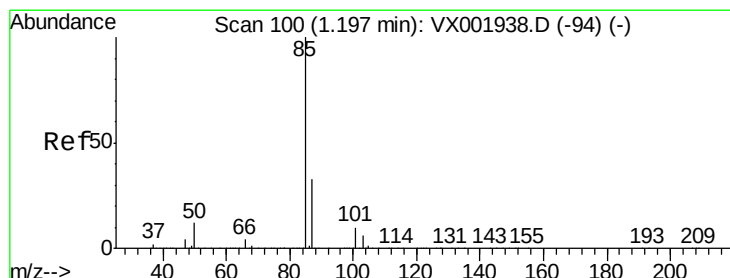
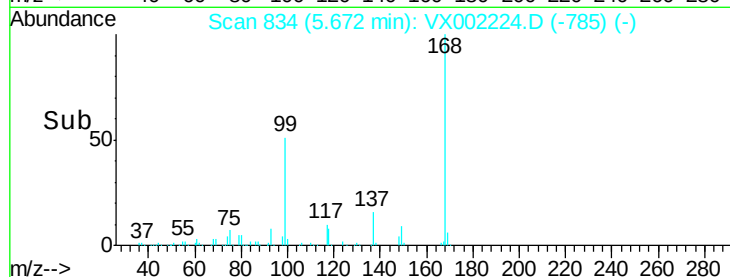
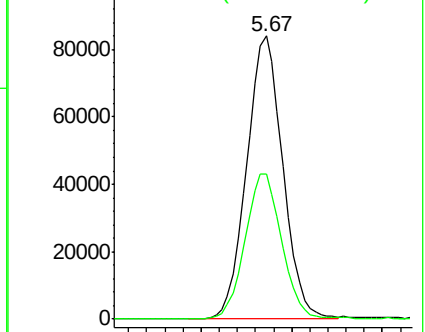
168 100

99 51.5 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: VX002224.D

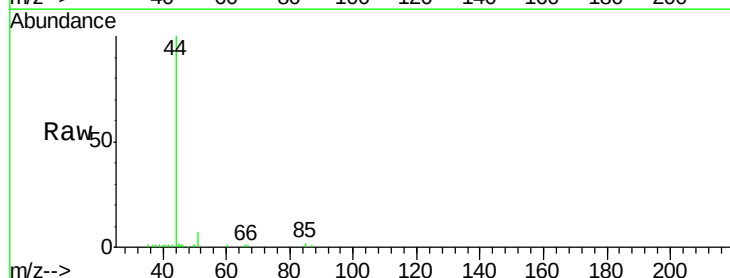
Acq: 01 Jun 2018 20:50

Tgt Ion: 85 Resp: 250

Ion Ratio Lower Upper

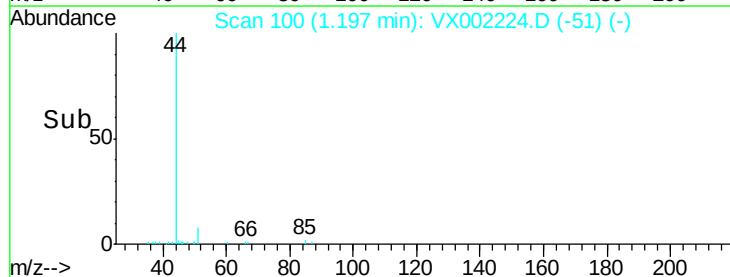
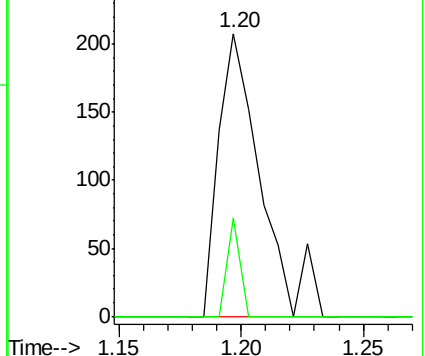
85 100

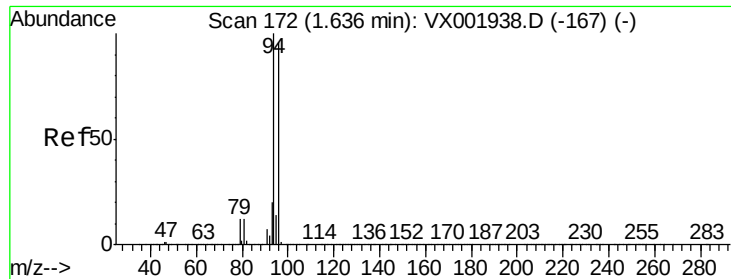
87 34.6 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 167

Delta R.T. -0.03 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Instrument :

MSVOA_X

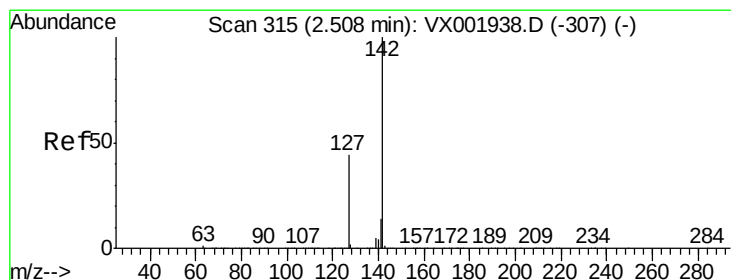
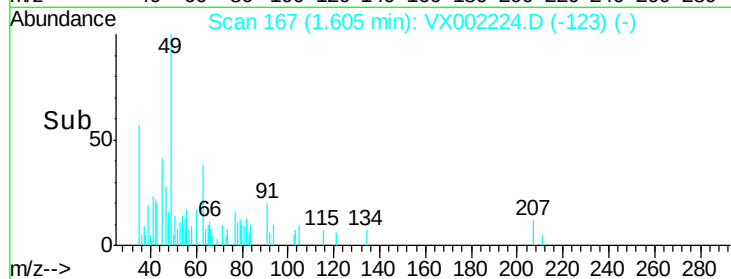
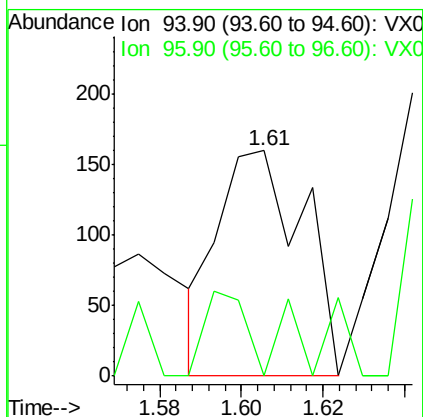
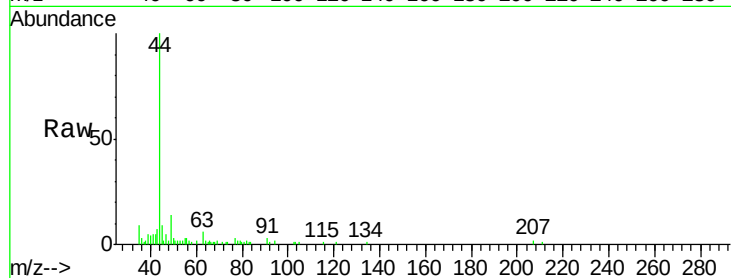
ClientSampled :

Tot Ion: 94 Resp: 233

Ion Ratio Lower Upper

94 100

96 0.0 75.9 113.9#



#10

Methyl Iodide

Concen: 0.34 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

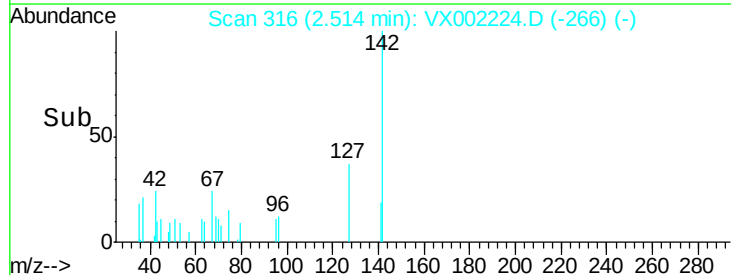
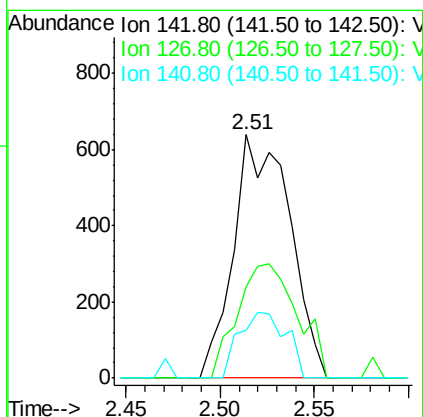
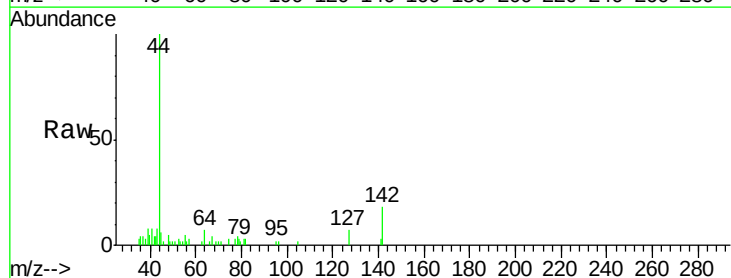
Tgt Ion: 142 Resp: 1322

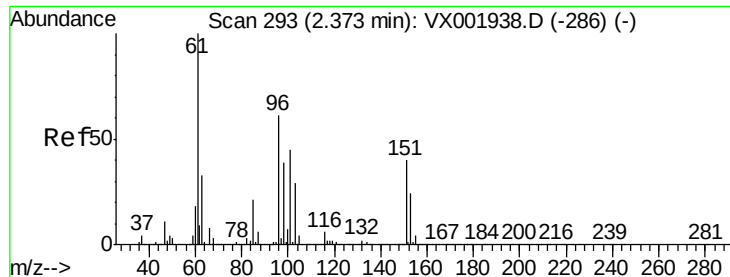
Ion Ratio Lower Upper

142 100

127 49.8 35.5 53.3

141 22.6 11.3 16.9#

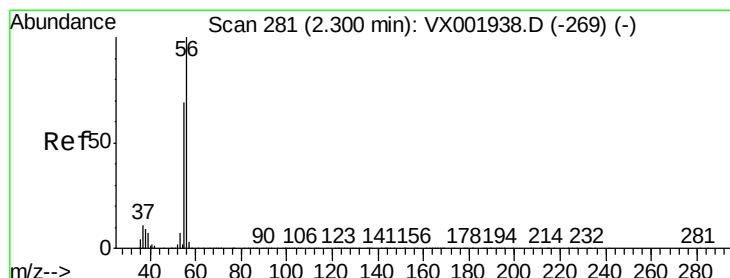
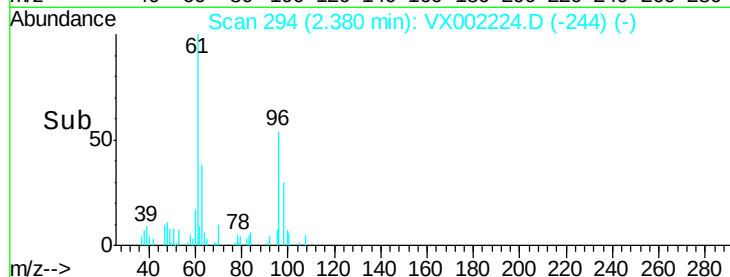
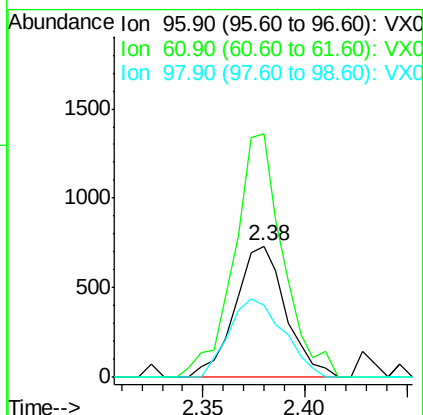
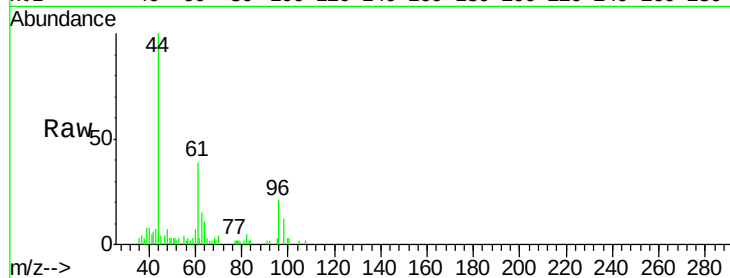




#12
1,1-Dichloroethene
Concen: 0.47 ug/l
RT: 2.38 min Scan# 294
Delta R.T. 0.01 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

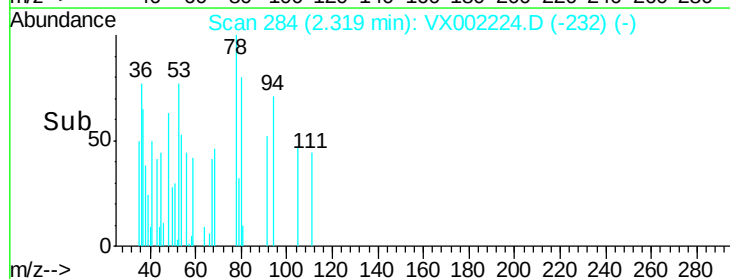
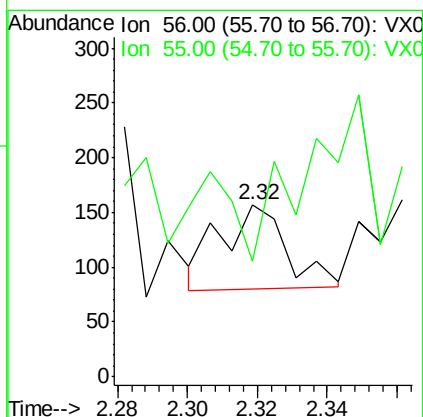
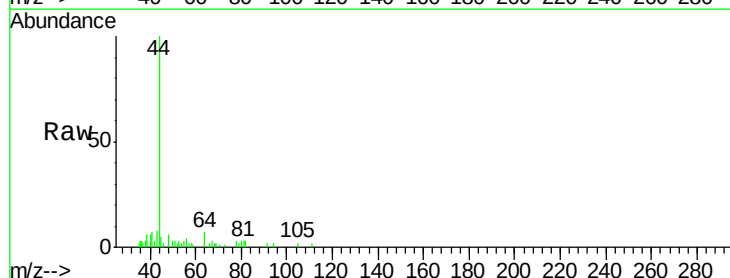
Instrument :
MSVOA_X
ClientSampleId :

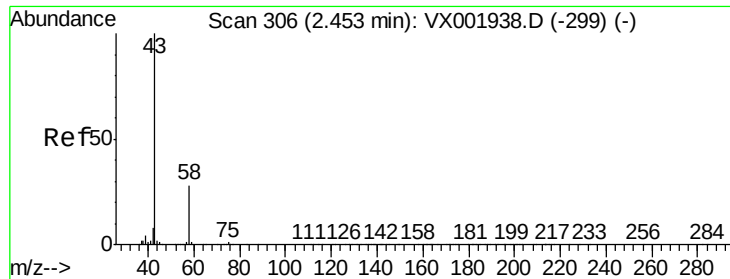
Tot Ion: 96 Resp: 1264
Ion Ratio Lower Upper
96 100
61 185.3 131.7 197.5
98 55.3 51.6 77.4



#13
Acrolein
Concen: 0.29 ug/l
RT: 2.32 min Scan# 284
Delta R.T. 0.02 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

Tgt Ion: 56 Resp: 101
Ion Ratio Lower Upper
56 100
55 67.3 56.8 85.2

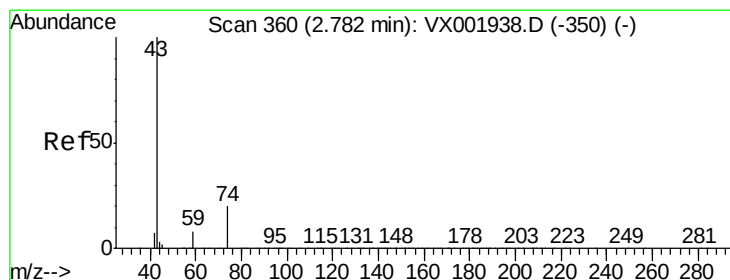
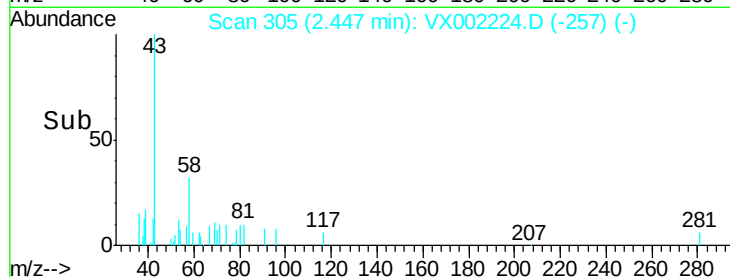
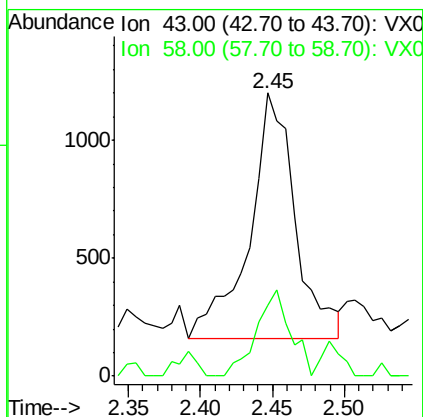
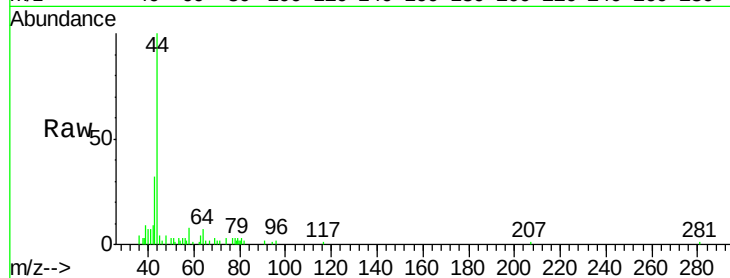




#16
Acetone
Concen: 1.44 ua/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

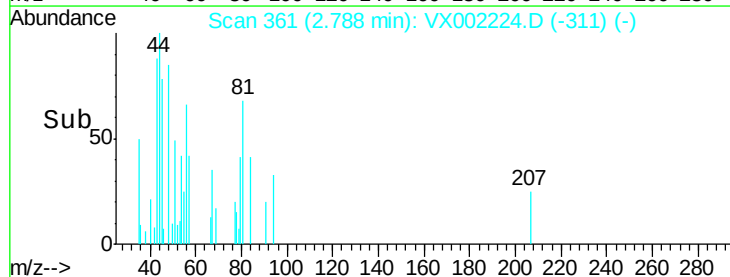
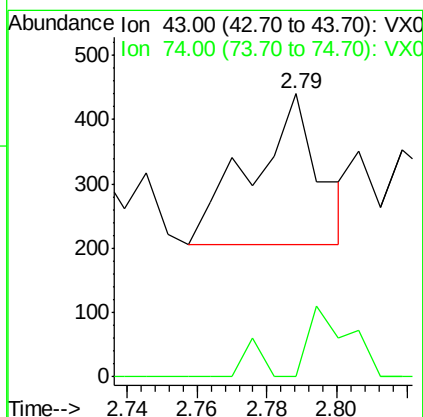
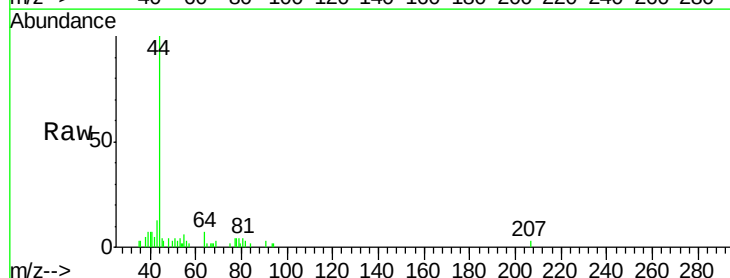
Instrument :
MSVOA_X
ClientSampleId :

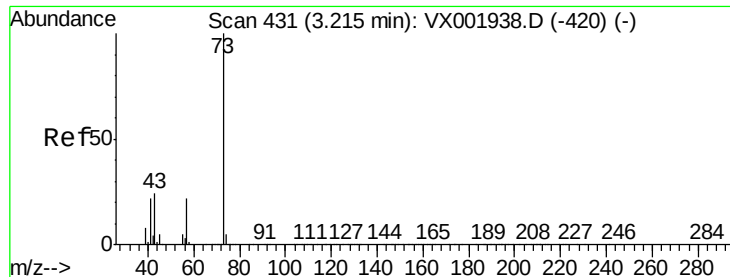
Tot Ion: 43 Resp: 2300
Ion Ratio Lower Upper
43 100
58 19.6 22.3 33.5#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

Tgt Ion: 43 Resp: 314
Ion Ratio Lower Upper
43 100
74 28.3 16.8 25.2#



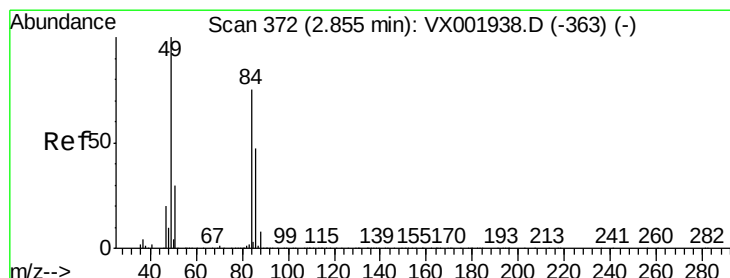
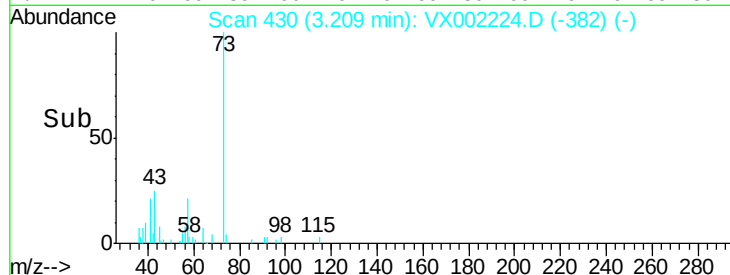
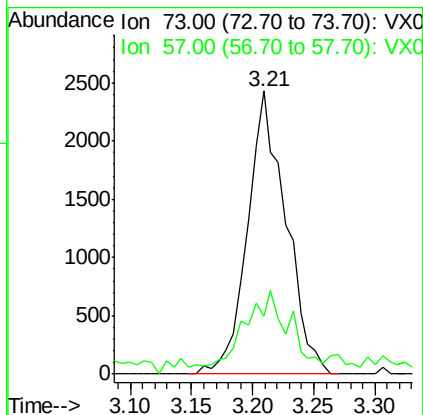
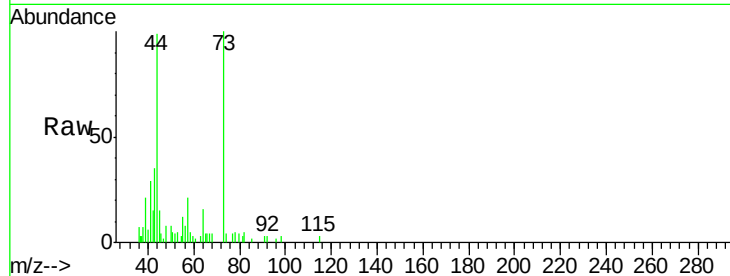


#19

Methyl tert-butyl Ether
 Concen: 0.52 ug/l
 RT: 3.21 min Scan# 430
 Delta R.T. -0.01 min
 Lab File: VX002224.D
 Acq: 01 Jun 2018 20:50

Instrument :
 MSVOA_X
 ClientSampleId :

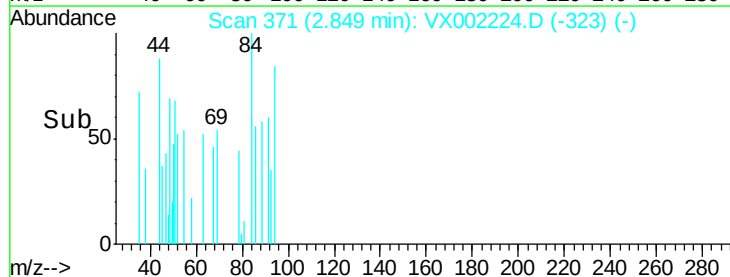
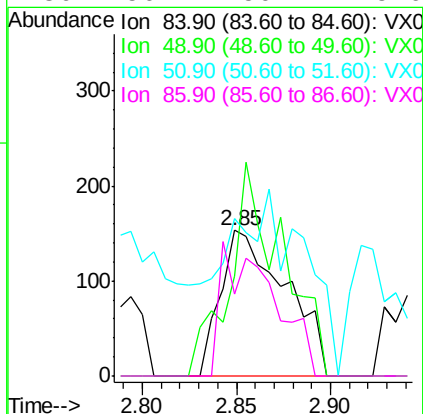
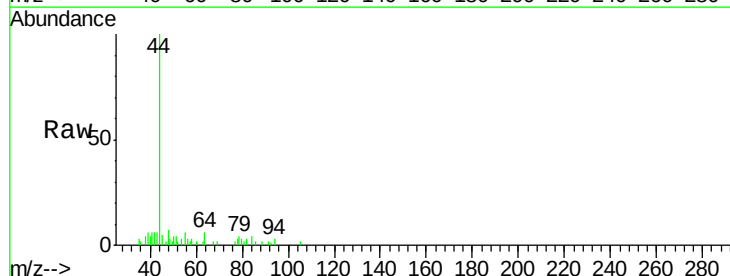
Tot Ion: 73 Resp: 5311
 Ion Ratio Lower Upper
 73 100
 57 18.2 17.4 26.0

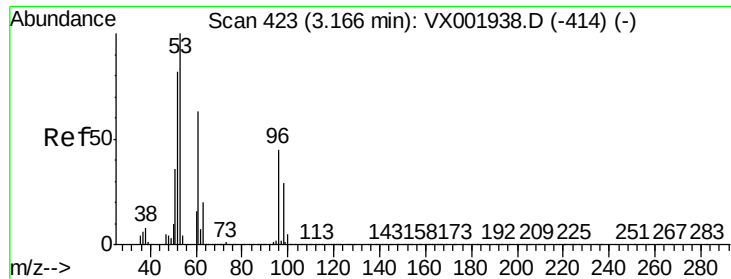


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.85 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: VX002224.D
 Acq: 01 Jun 2018 20:50

Tgt Ion: 84 Resp: 367
 Ion Ratio Lower Upper
 84 100
 49 128.1 107.2 160.8
 51 108.5 32.4 48.6#
 86 56.2 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

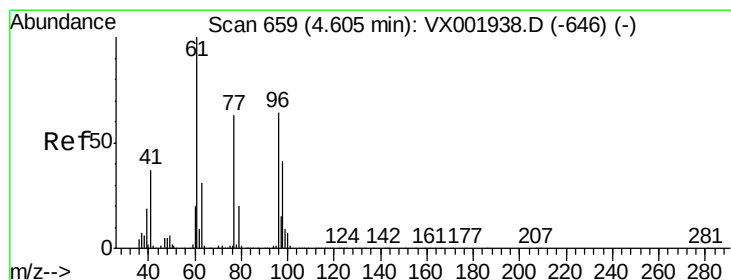
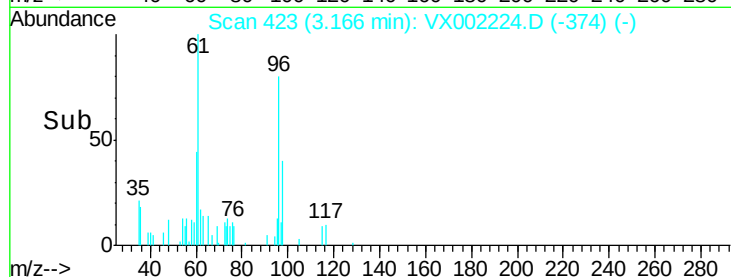
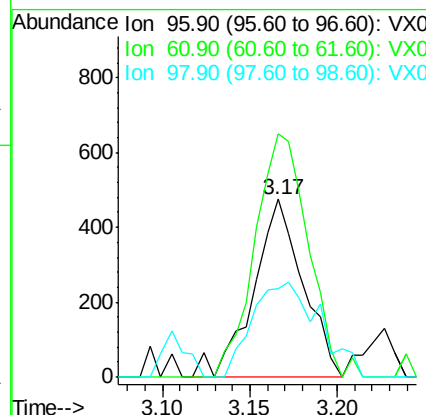
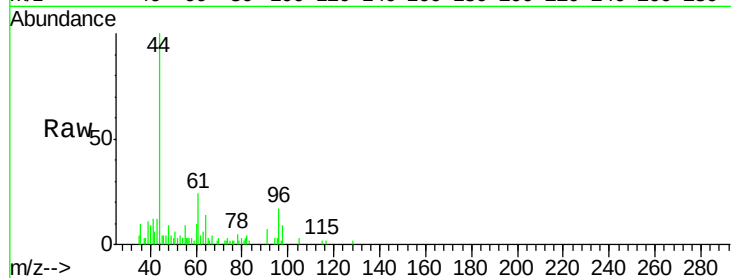
Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 96 Resp: 943

Ion	Ratio	Lower	Upper
96	100		
61	136.8	113.3	169.9
98	36.4	51.7	77.5#



#27

cis-1,2-Dichloroethene

Concen: 3.26 ug/l

RT: 4.60 min Scan# 658

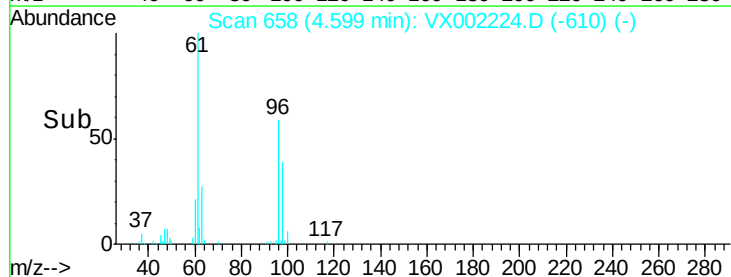
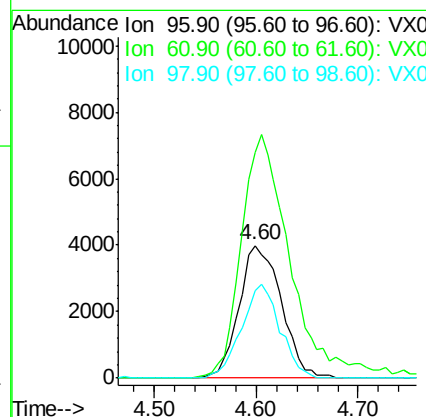
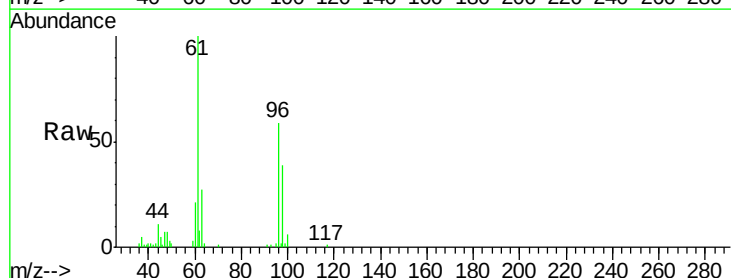
Delta R.T. -0.01 min

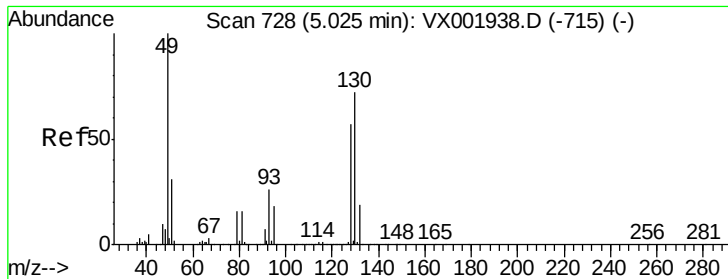
Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Tgt Ion: 96 Resp: 11477

Ion	Ratio	Lower	Upper
96	100		
61	213.1	0.0	348.4
98	64.5	0.0	128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.05 min Scan# 732

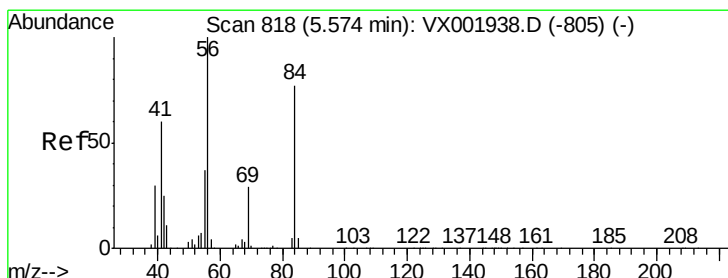
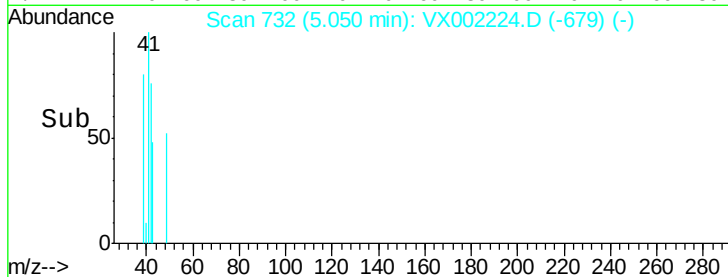
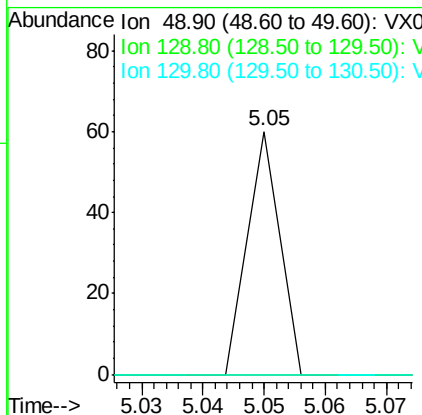
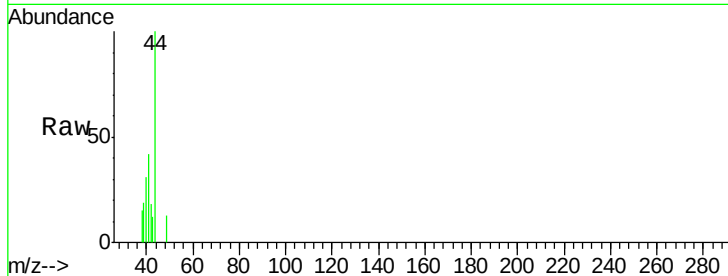
Delta R.T. 0.02 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	49	Resp:	22
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#



#31

Cyclohexane

Concen: 0.98 ug/l

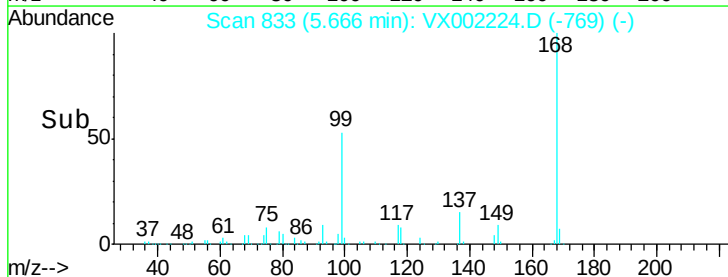
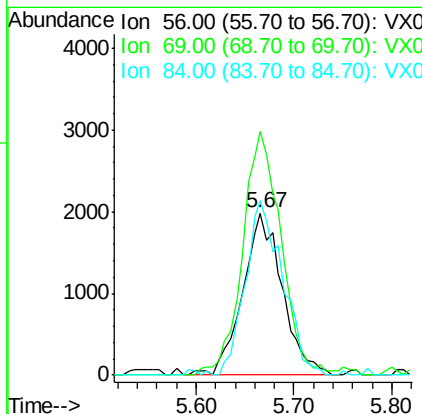
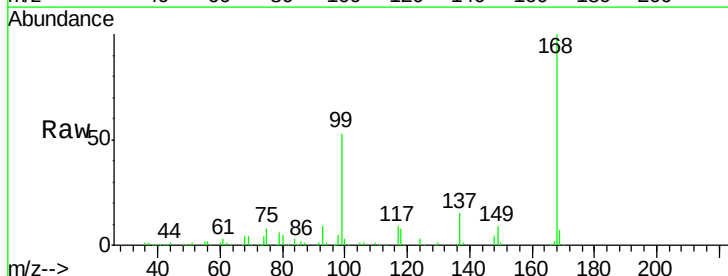
RT: 5.67 min Scan# 833

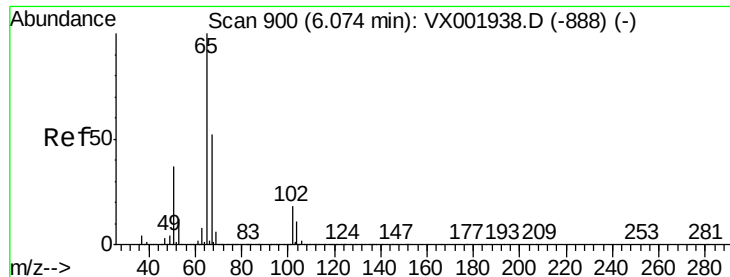
Delta R.T. 0.09 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Tgt Ion:	56	Resp:	5591
Ion	Ratio	Lower	Upper
56	100		
69	150.4	23.1	34.7#
84	112.1	62.0	93.0#

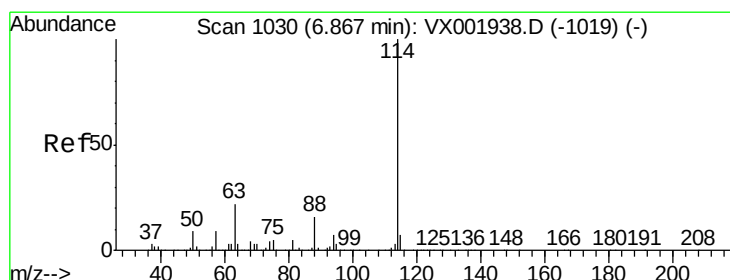
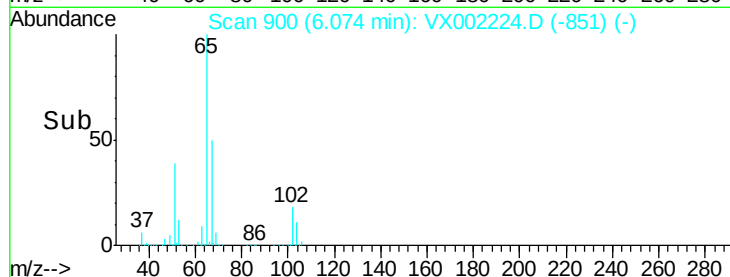
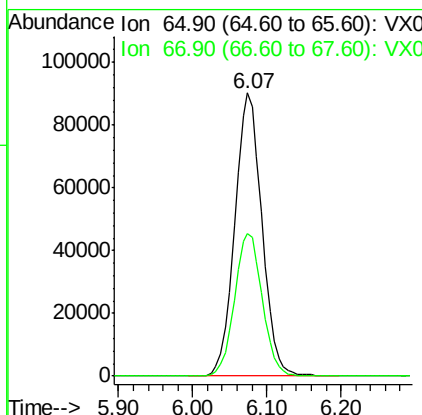
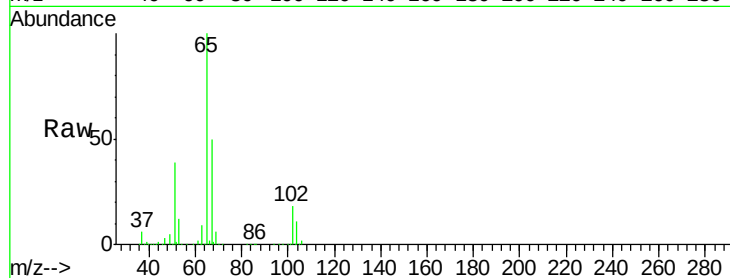




#33
 1,2-Dichloroethane-d4
 Concen: 55.62 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002224.D
 Acq: 01 Jun 2018 20:50

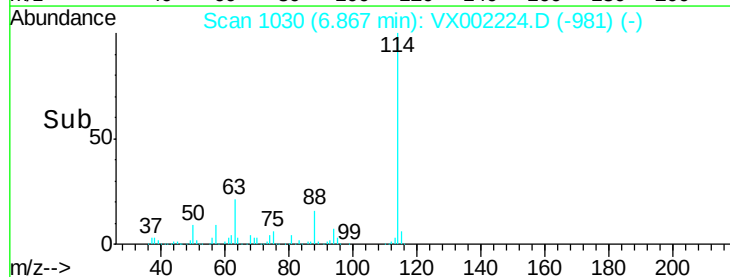
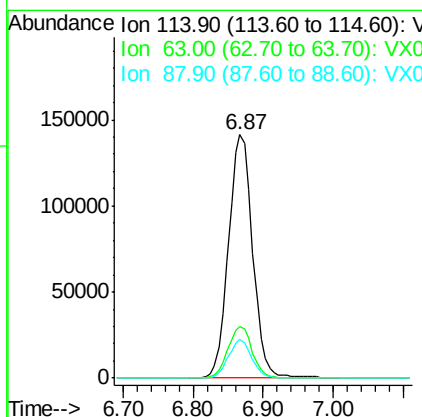
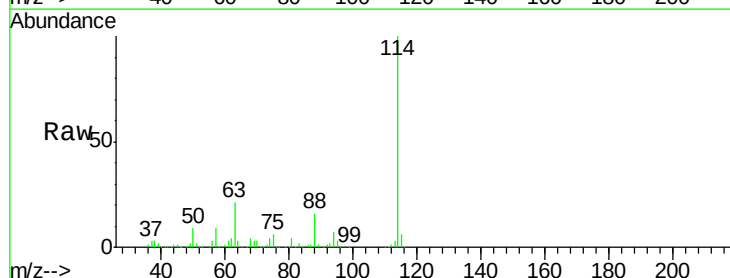
Instrument :
 MSVOA_X
 ClientSampled :

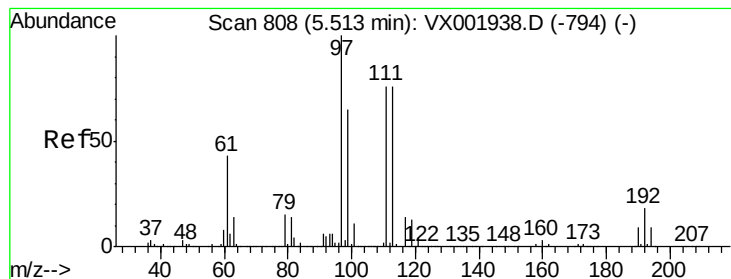
Tot Ion: 65 Resp: 230117
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002224.D
 Acq: 01 Jun 2018 20:50

Tgt Ion: 114 Resp: 339462
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 43.2
 88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.24 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Instrument :

MSVOA_X

ClientSampleId :

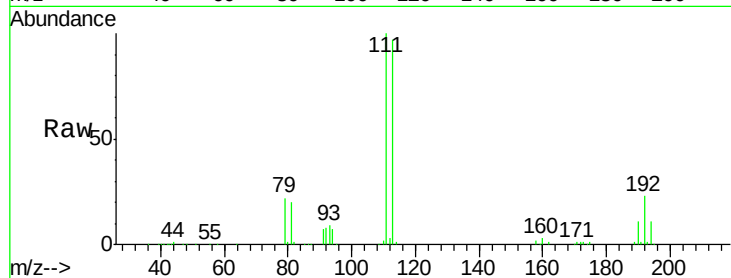
Tot Ion:113 Resp: 167155

Ion Ratio Lower Upper

113 100

111 103.6 82.0 123.0

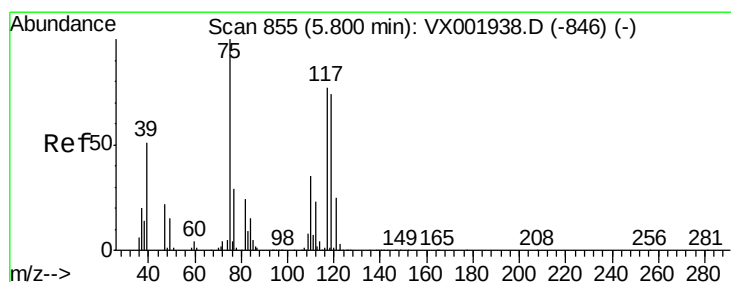
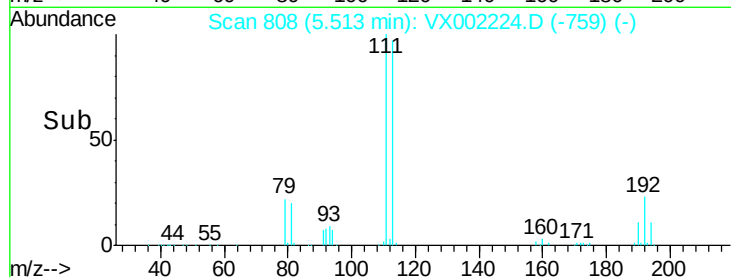
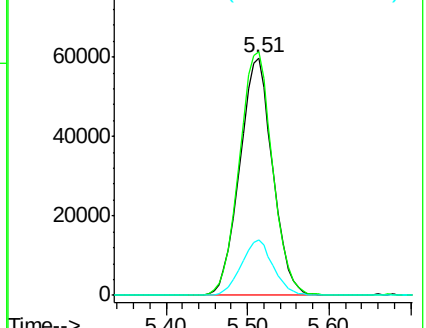
192 22.7 18.9 28.3



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: 3.61 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

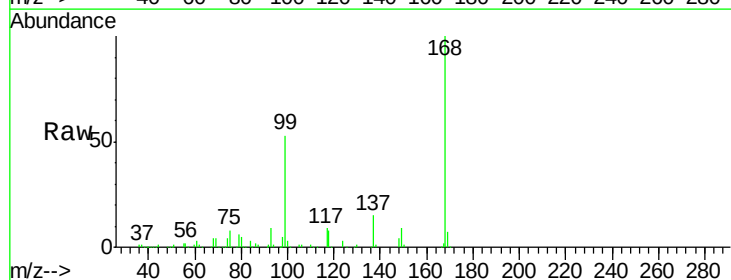
Tgt Ion: 75 Resp: 17049

Ion Ratio Lower Upper

75 100

110 10.4 17.4 52.2#

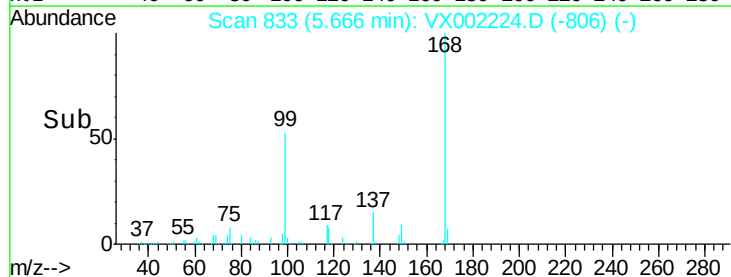
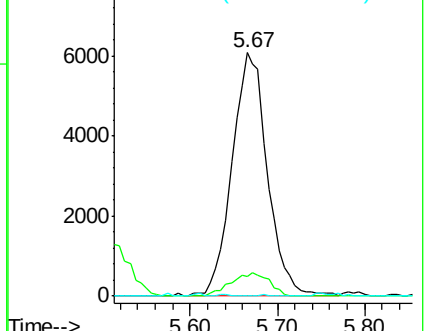
77 0.1 24.4 36.6#

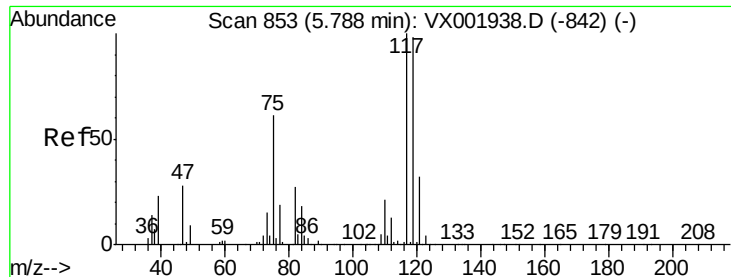


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

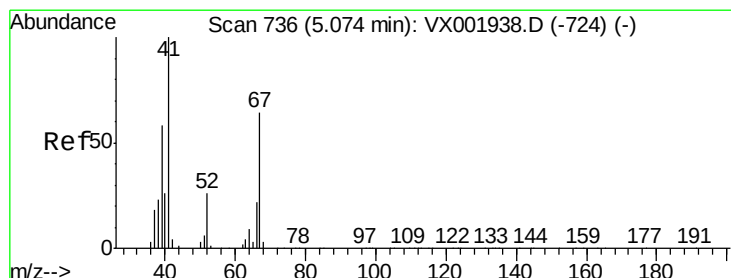
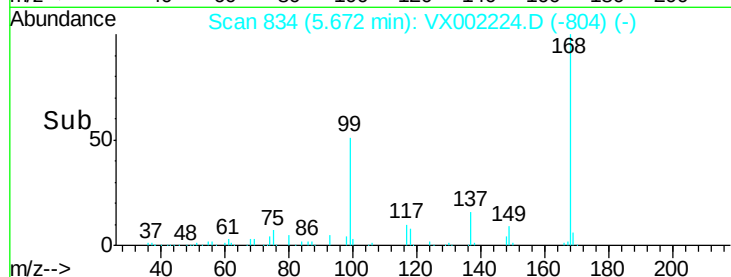
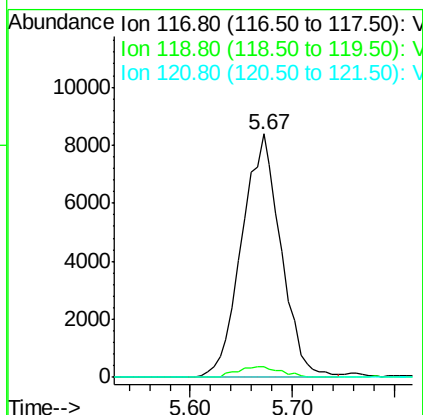
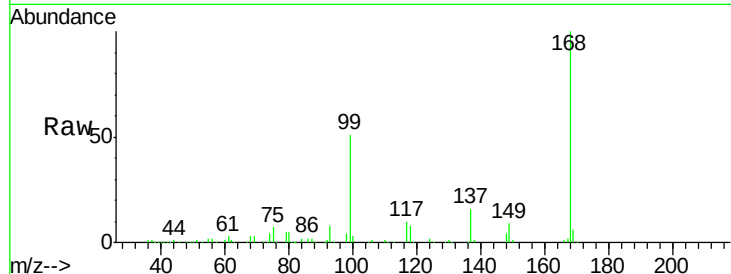




#38
Carbon Tetrachloride
Concen: 4.07 ua/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

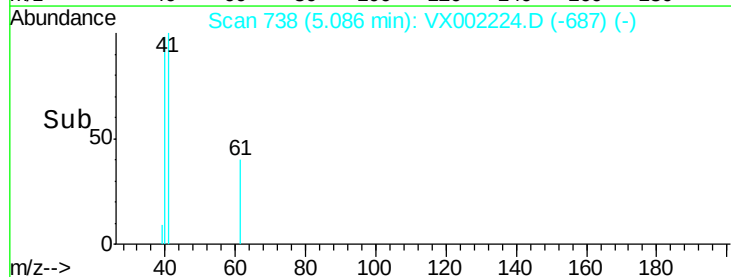
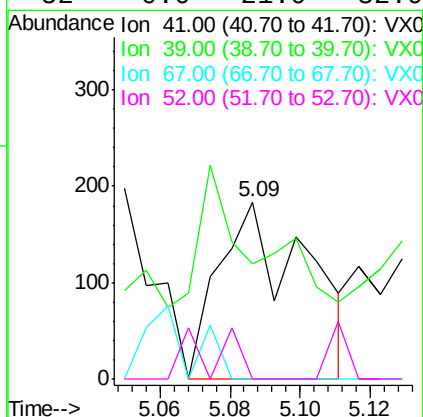
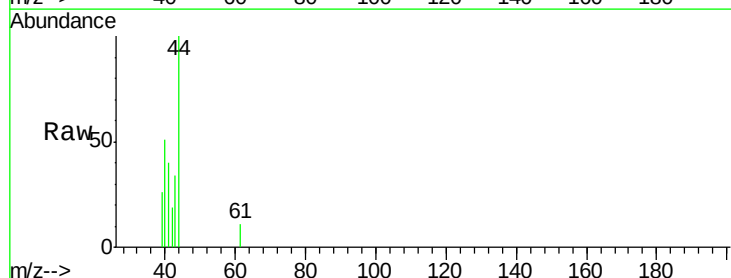
Instrument :
MSVOA_X
ClientSampled :

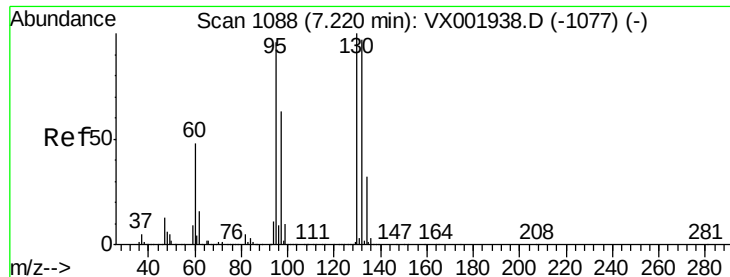
Tot Ion:117 Resp: 22414
Ion Ratio Lower Upper
117 100
119 4.3 78.5 117.7#
121 0.0 25.5 38.3#



#41
Methacrylonitrile
Concen: Below Cal
RT: 5.09 min Scan# 738
Delta R.T. 0.01 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

Tgt Ion: 41 Resp: 316
Ion Ratio Lower Upper
41 100
39 0.0 46.0 69.0#
67 0.0 50.6 75.8#
52 0.0 21.9 32.9#





#44

Trichloroethene

Concen: 13.26 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Instrument :

MSVOA_X

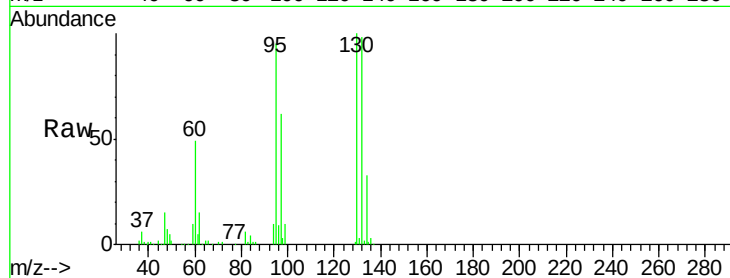
ClientSampled :

Tot Ion:130 Resp: 53446

Ion Ratio Lower Upper

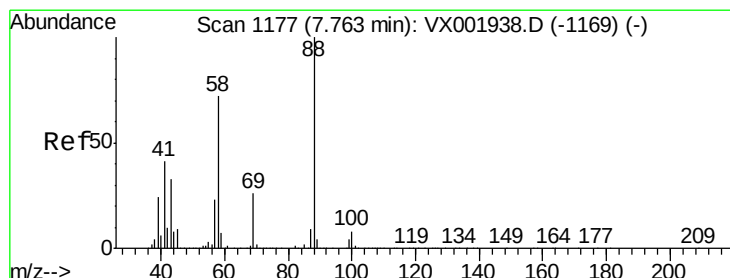
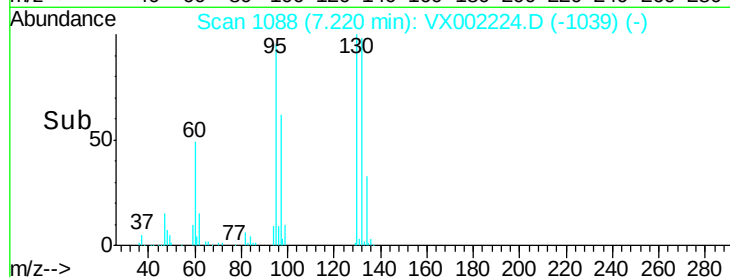
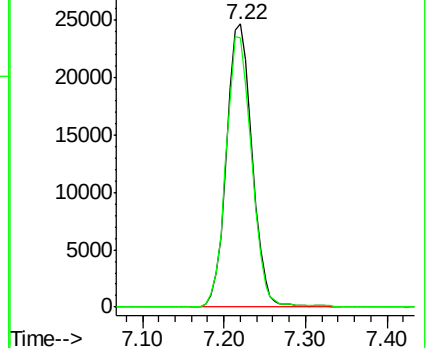
130 100

95 95.0 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: 0.24 ug/l

RT: 8.02 min Scan# 1220

Delta R.T. 0.26 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

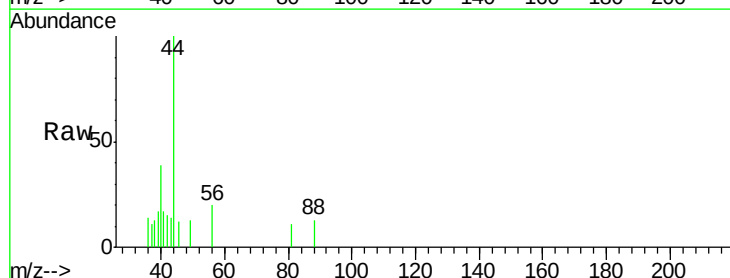
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 568.2 29.8 44.8#

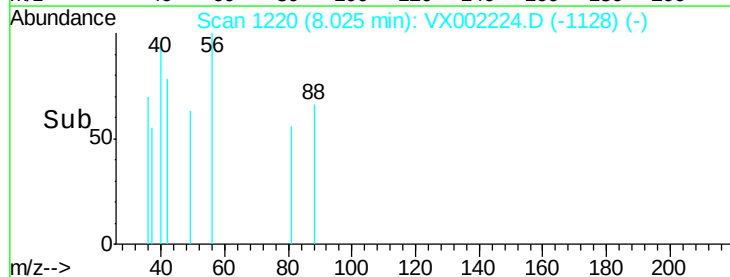
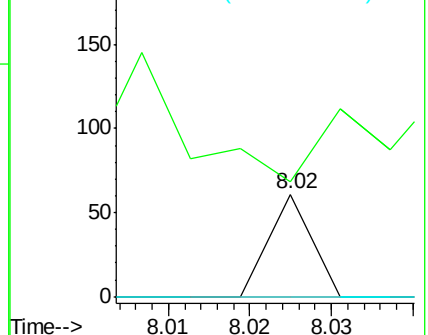
58 0.0 58.7 88.1#

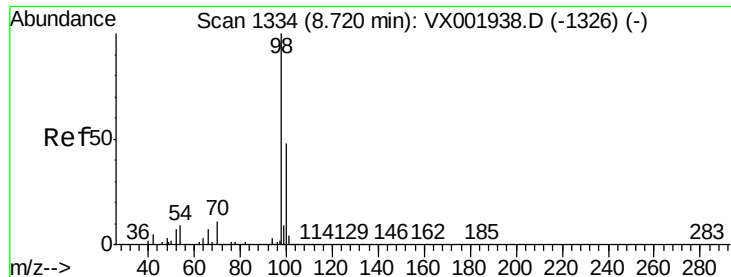


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

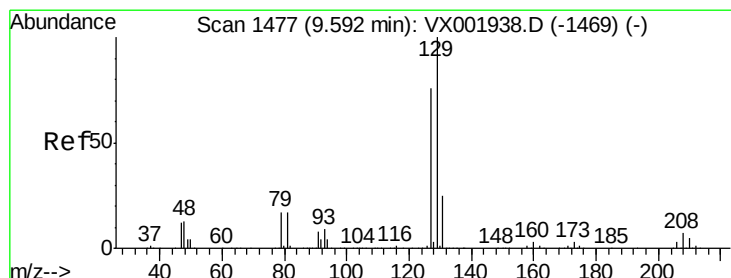
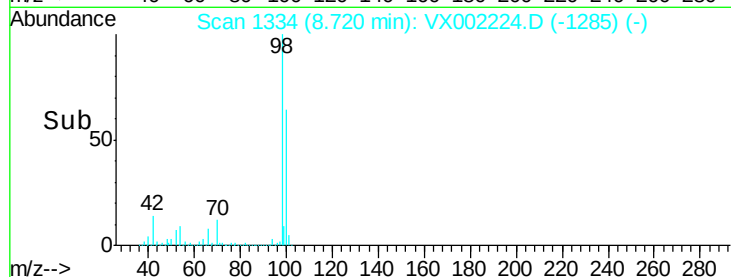
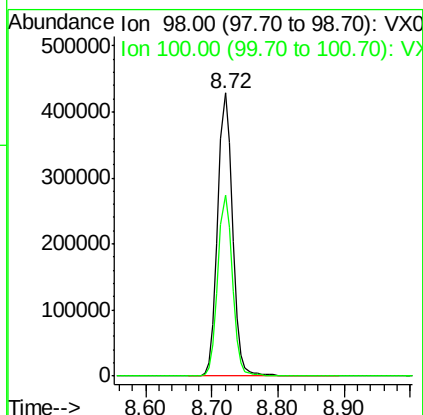
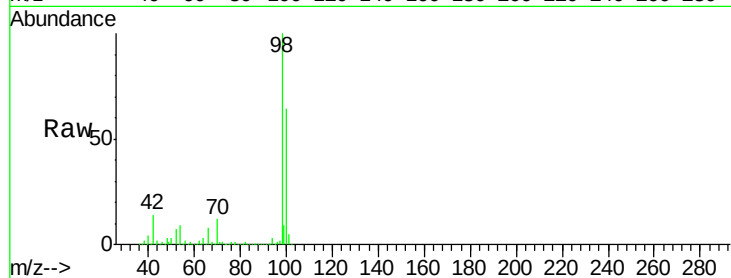




#50
Toluene-d8
Concen: 54.06 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

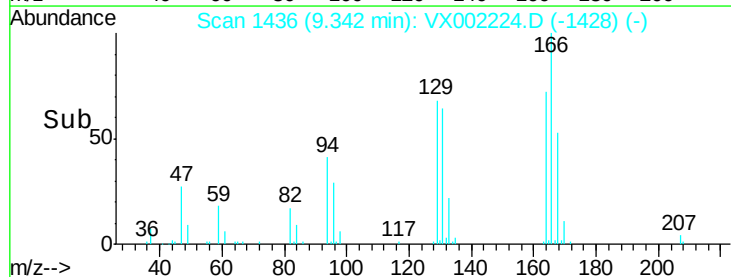
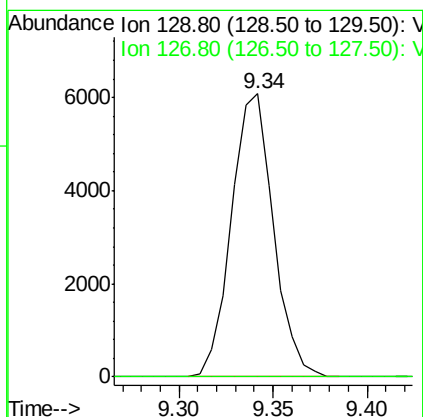
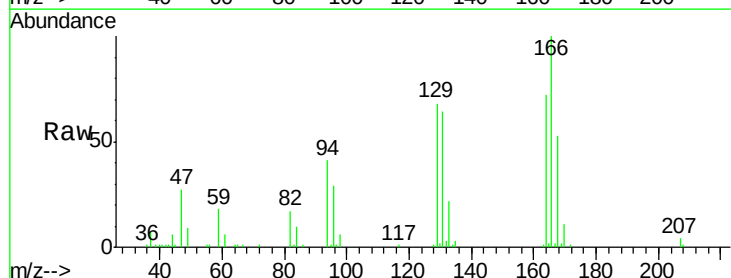
Instrument :
MSVOA_X
ClientSampleId :

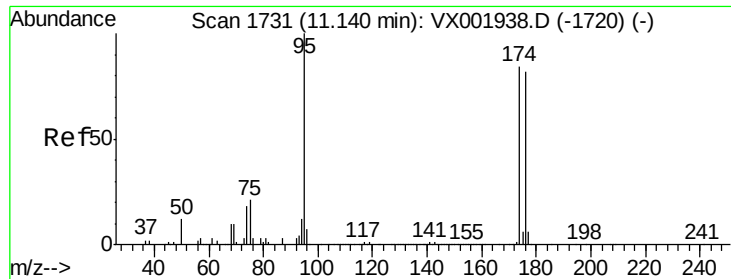
Tot Ion: 98 Resp: 664384
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



#60
Dibromochloromethane
Concen: 2.16 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.25 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

Tgt Ion: 129 Resp: 9389
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#

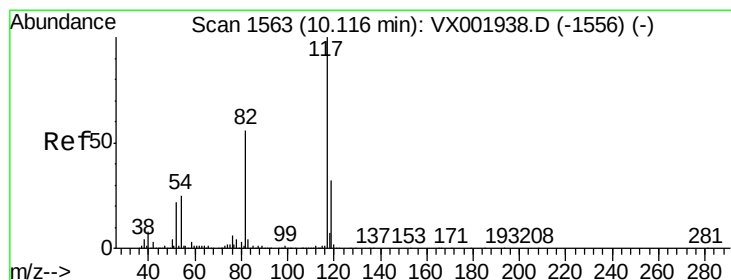
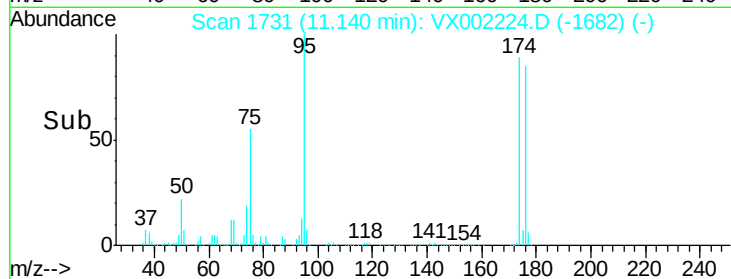
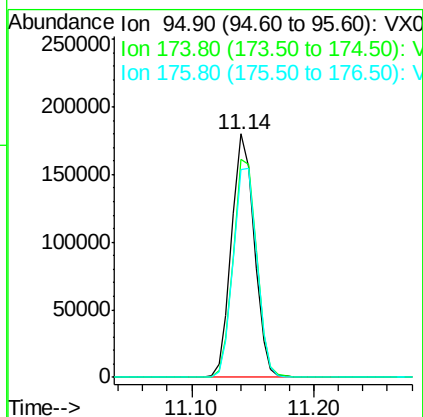
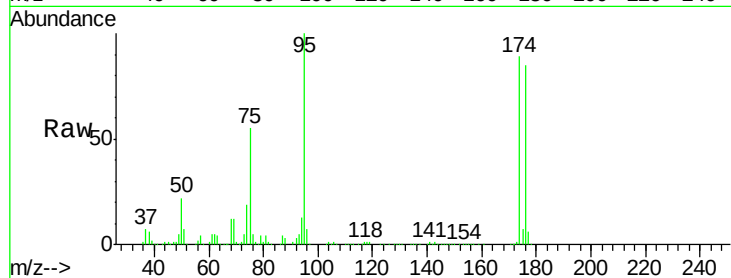




#62
4-Bromofluorobenzene
Concen: 48.01 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

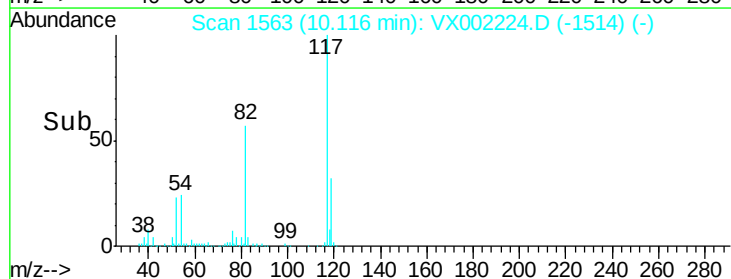
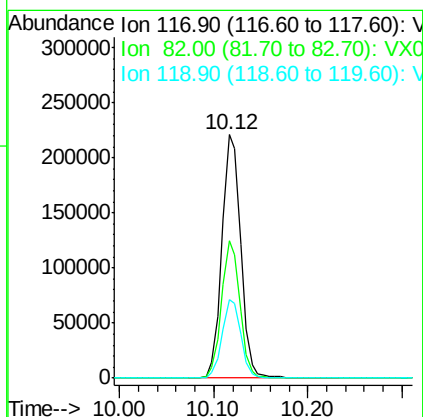
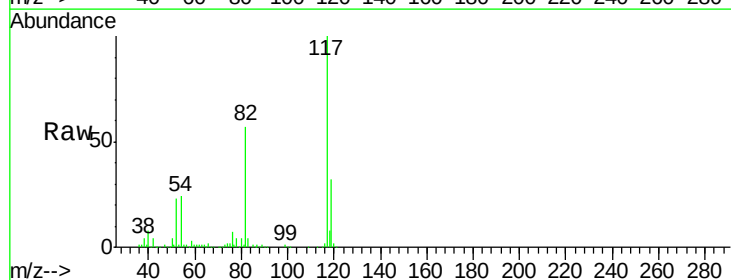
Instrument :
MSVOA_X
ClientSampled :

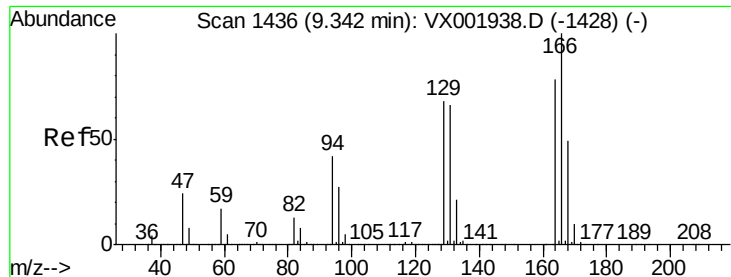
Tot Ion: 95 Resp: 230832
Ion Ratio Lower Upper
95 100
174 92.1 0.0 178.8
176 89.6 0.0 175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

Tgt Ion: 117 Resp: 306831
Ion Ratio Lower Upper
117 100
82 56.6 44.8 67.2
119 32.4 25.5 38.3

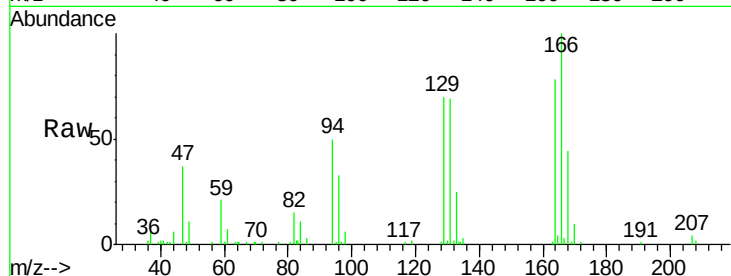




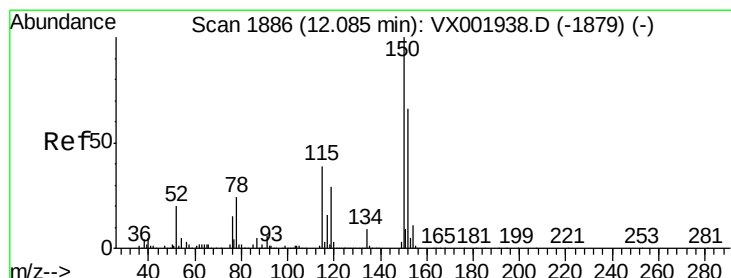
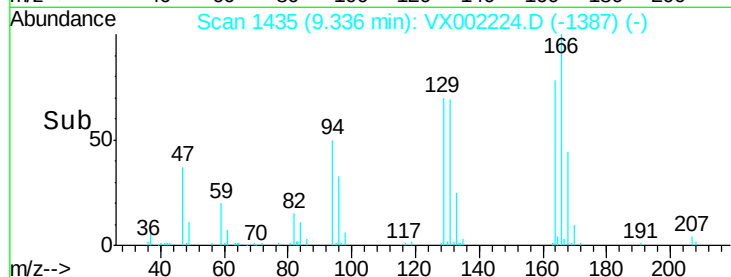
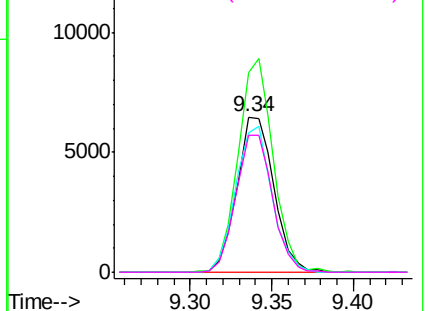
#64
Tetrachloroethene
Concen: 2.32 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.7	102.7	154.1
129	90.2	70.3	105.5
131	88.6	68.2	102.4

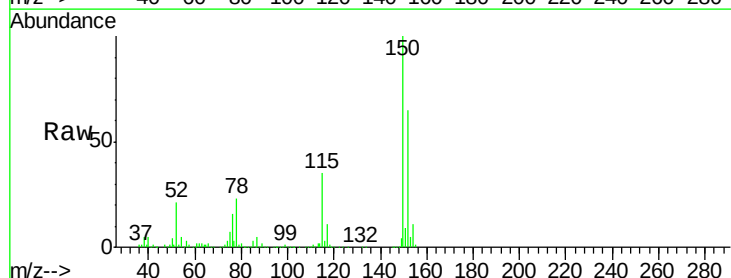


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

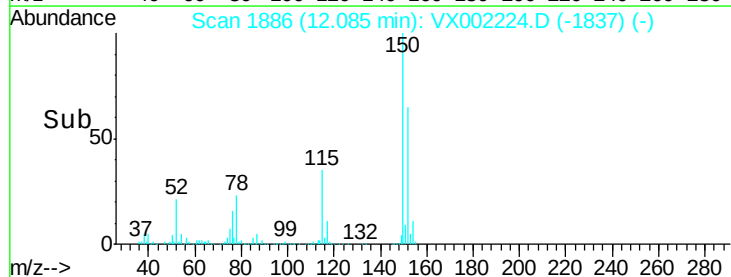
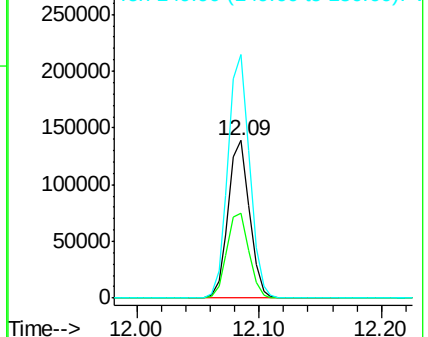


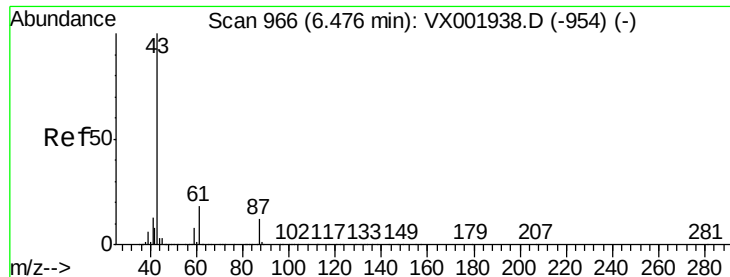
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002224.D
Acq: 01 Jun 2018 20:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	42.3	126.8
150	156.8	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: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX002224.D

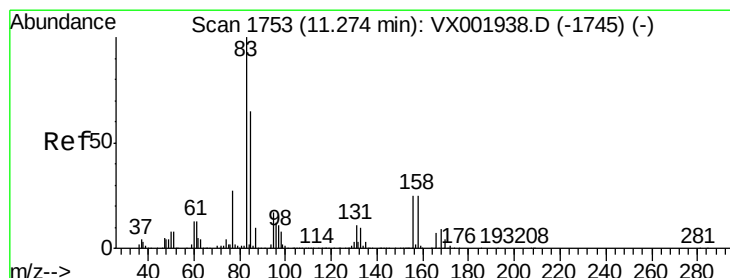
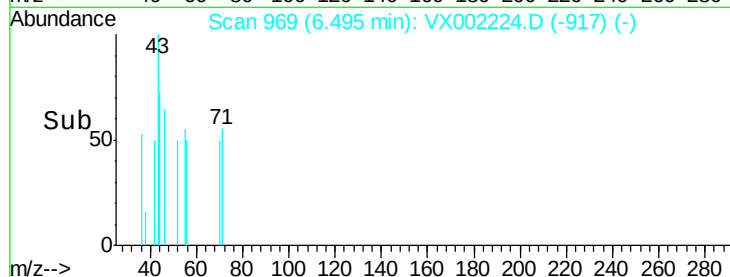
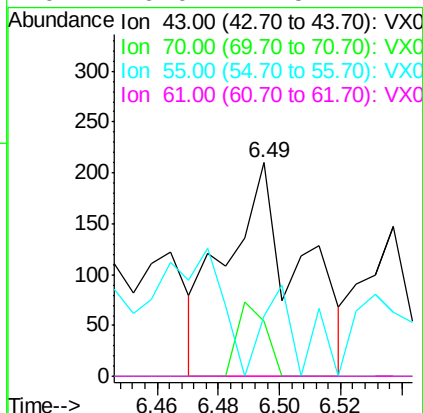
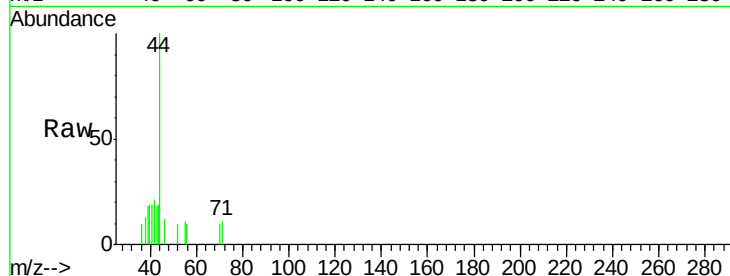
Acq: 01 Jun 2018 20:50

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	43	Resp:	353
Ion	Ratio	Lower	Upper
43	100		
70	13.0	0.1	0.1#
55	15.6	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

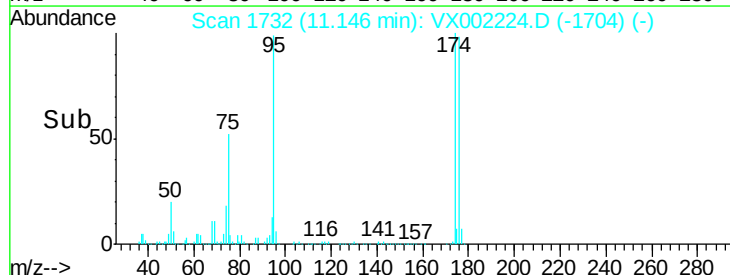
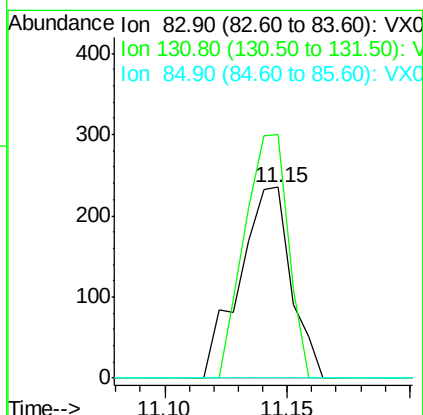
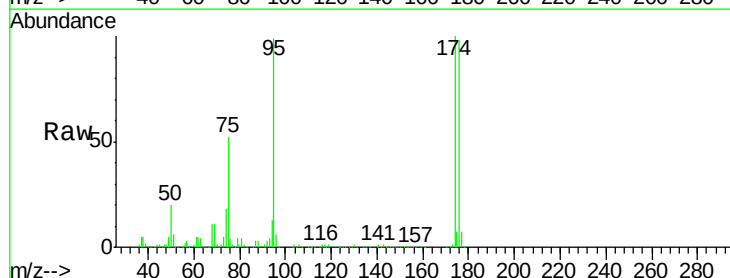
RT: 11.15 min Scan# 1732

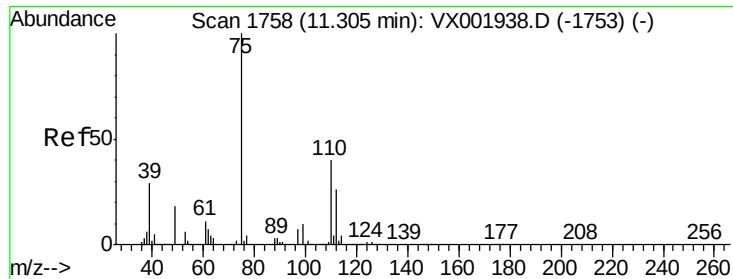
Delta R.T. -0.13 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Tgt Ion:	83	Resp:	345
Ion	Ratio	Lower	Upper
83	100		
131	107.8	5.7	17.0#
85	0.0	32.6	97.7#





#76

1,2,3-Trichloropropane

Concen: 31.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002224.D

Acq: 01 Jun 2018 20:50

Instrument :

MSVOA_X

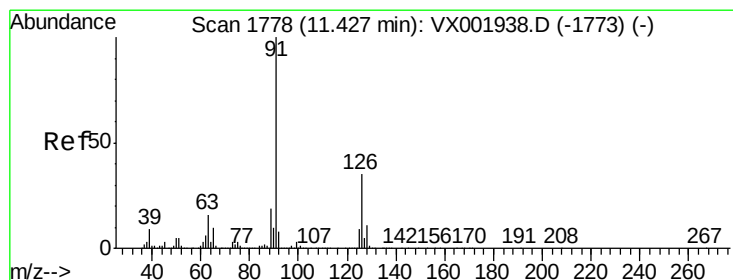
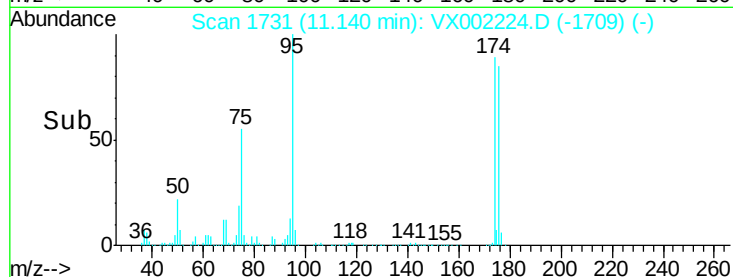
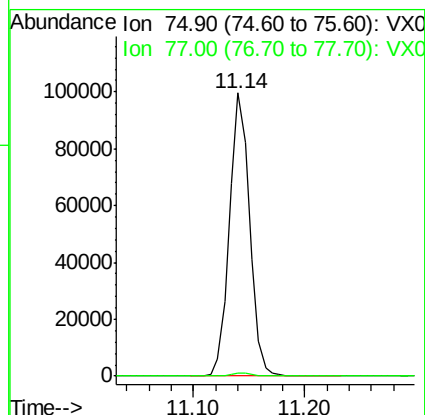
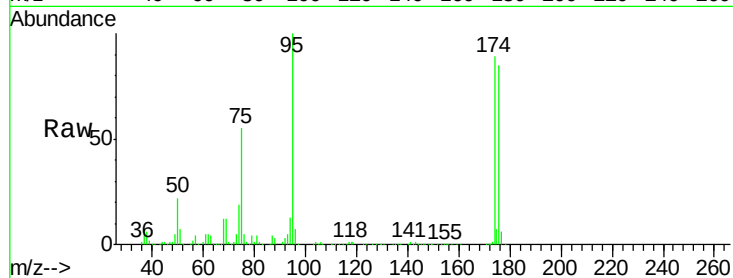
ClientSampled :

Tot Ion: 75 Resp: 125088

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.41 min Scan# 1776

Delta R.T. -0.01 min

Lab File: VX002224.D

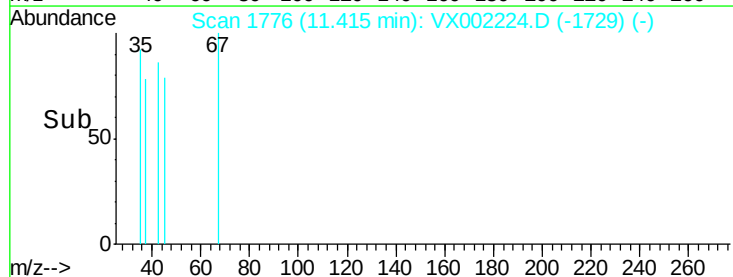
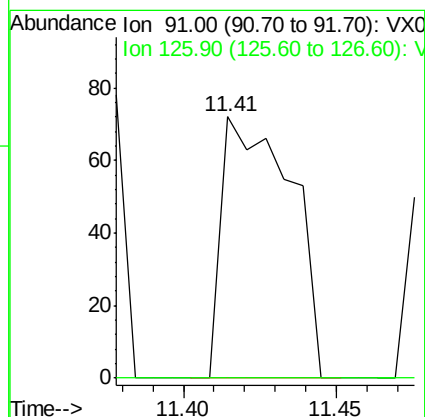
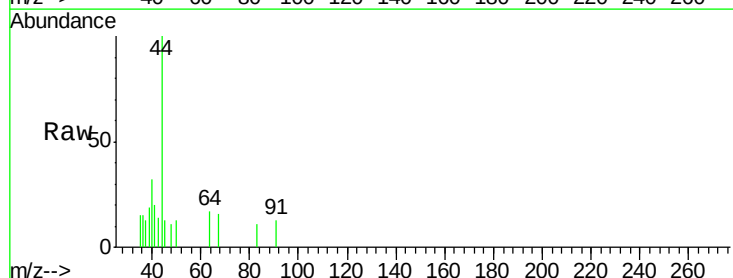
Acq: 01 Jun 2018 20:50

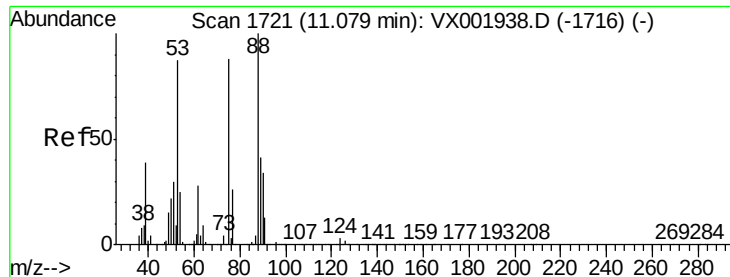
Tgt Ion: 91 Resp: 113

Ion Ratio Lower Upper

91 100

126 0.0 17.4 52.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.76 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002224.D
 Acq: 01 Jun 2018 20:50

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 125088
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 39.4 59.2#

