

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052618\
 Data File : VX002024.D
 Acq On : 26 May 2018 17:39
 Operator : JC/MD
 Sample : J3118-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 28 00:33:47 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	310223	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	436417	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	381635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	204364	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	259932	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	
35) Dibromofluoromethane	5.51	113	201669	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
50) Toluene-d8	8.72	98	769893	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	11.14	95	269013	43.52	ug/l	0.00
Spiked Amount			Recovery	=	87.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	108	Below Cal	#	41
5) Bromomethane	1.61	94	303	Below Cal	#	2
10) Methyl Iodide	2.52	142	1734	0.33	ug/l	95
12) 1,1-Dichloroethene	2.38	96	6309	1.74	ug/l	90
13) Acrolein	2.27	56	190	0.40	ug/l	# 13
16) Acetone	2.45	43	1891	0.88	ug/l	# 84
18) Methyl Acetate	2.78	43	429	Below Cal	#	72
20) Methylene Chloride	2.84	84	39	Below Cal	#	33
21) trans-1,2-Dichloroethene	3.17	96	2634	Below Cal		96
24) 1,1-Dichloroethane	3.70	63	1545	0.21	ug/l	# 83
27) cis-1,2-Dichloroethene	4.61	96	20139	4.27	ug/l	# 86
28) Bromochloromethane	4.91	49	22	Below Cal	#	14
36) 1,1-Dichloropropene	5.67	75	21636	3.56	ug/l	# 53
38) Carbon Tetrachloride	5.67	117	28825	4.07	ug/l	# 14
41) Methacrylonitrile	5.07	41	205	Below Cal	#	37
44) Trichloroethene	7.22	130	19704	3.80	ug/l	100
49) 1,4-Dioxane	7.77	88	134	1.13	ug/l	# 77
51) 4-Methyl-2-Pentanone	8.72	43	4146	0.52	ug/l	# 1
60) Dibromochloromethane	9.34	129	37681	6.73	ug/l	# 11
64) Tetrachloroethene	9.34	164	41476	7.58	ug/l	97
74) N-amyl acetate	6.49	43	110	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.24	83	23	Below Cal	#	63
76) 1,2,3-Trichloropropane	11.14	75	141619	28.85	ug/l	# 33
79) 2-Chlorotoluene	11.52	91	396	Below Cal		75
81) trans-1,4-Dichloro-2-buten	11.14	75	141619	69.34	ug/l	# 10

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Instrument :

MSVOA_X

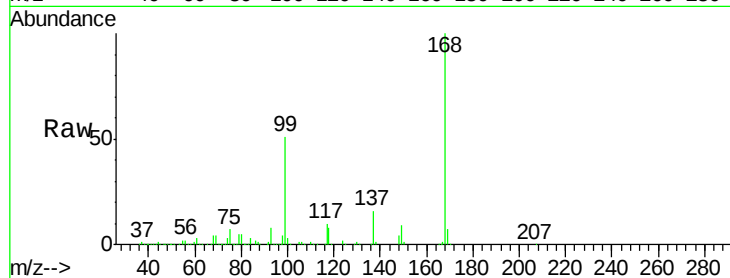
ClientSampleId :

Tot Ion:168 Resp: 310223

Ion Ratio Lower Upper

168 100

99 50.5 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

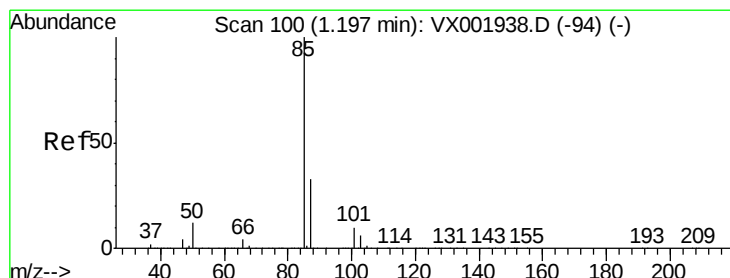
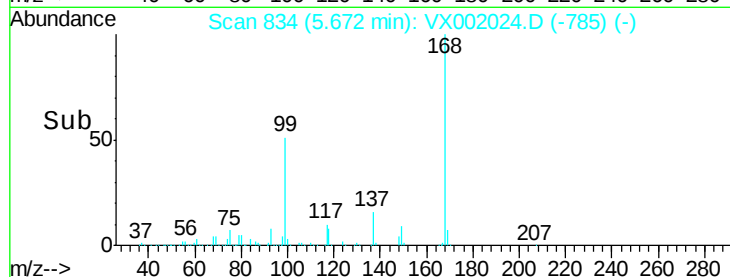
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX002024.D

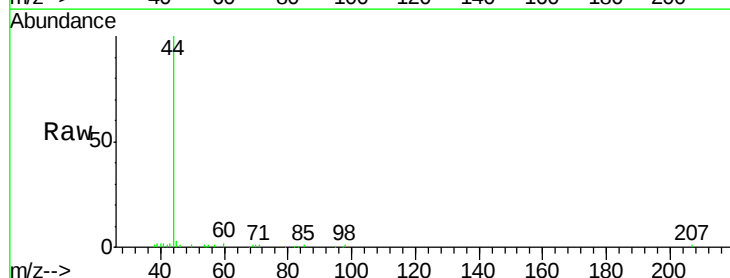
Acq: 26 May 2018 17:39

Tgt Ion: 85 Resp: 108

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

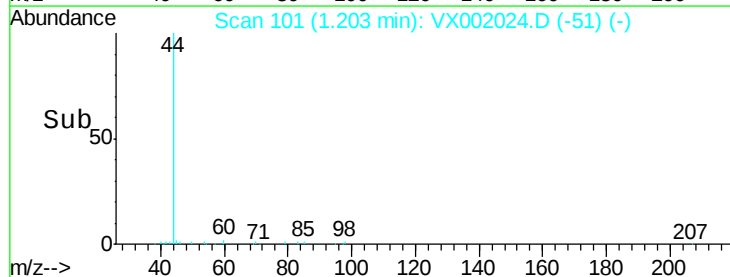
150

100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

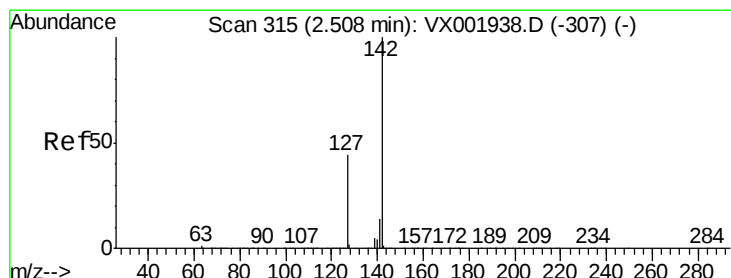
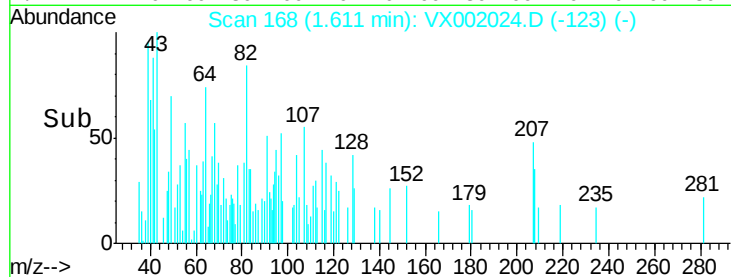
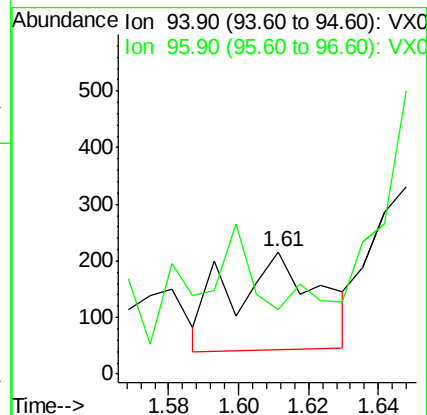
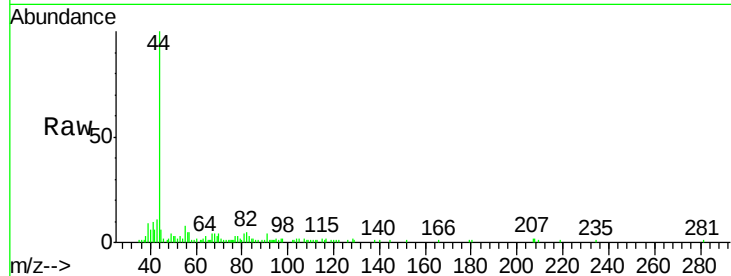
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 303

Ion Ratio Lower Upper

94 100

96 0.0 75.9 113.9#



#10

Methyl Iodide

Concen: 0.33 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

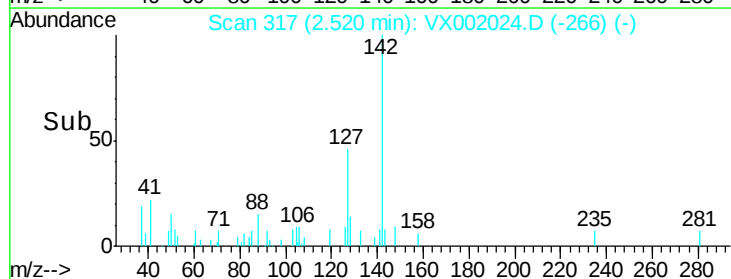
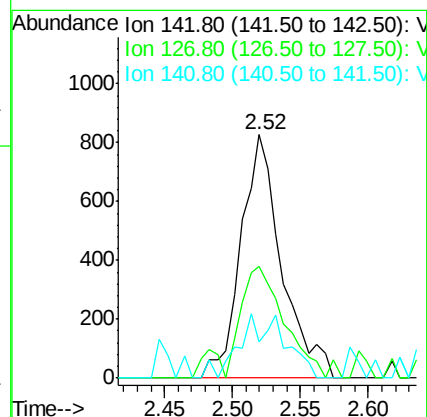
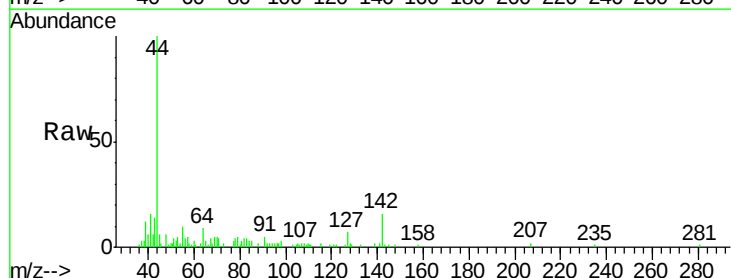
Tgt Ion: 142 Resp: 1734

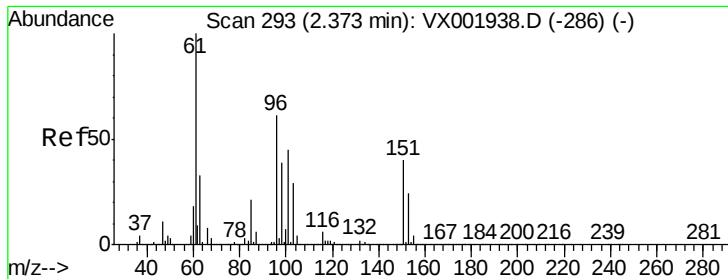
Ion Ratio Lower Upper

142 100

127 48.3 35.5 53.3

141 14.1 11.3 16.9





#12

1,1-Dichloroethene

Concen: 1.74 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Instrument :

MSVOA_X

ClientSampleId :

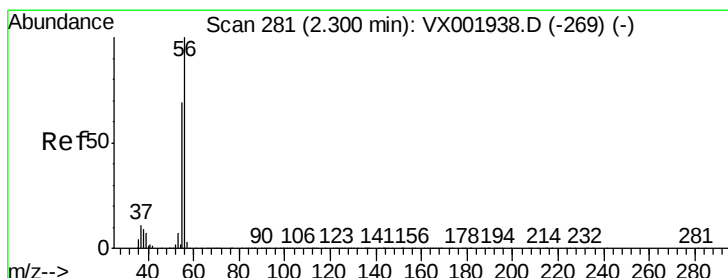
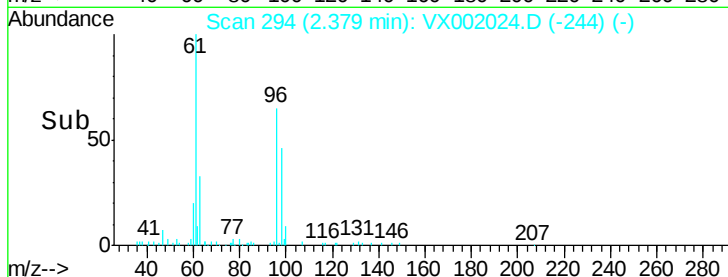
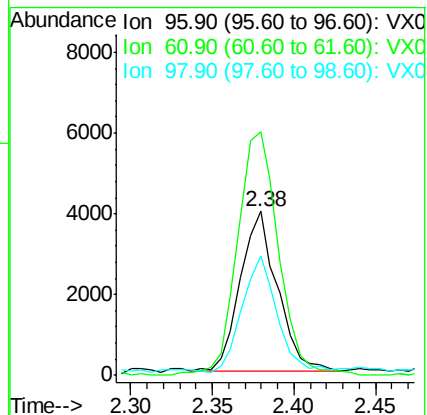
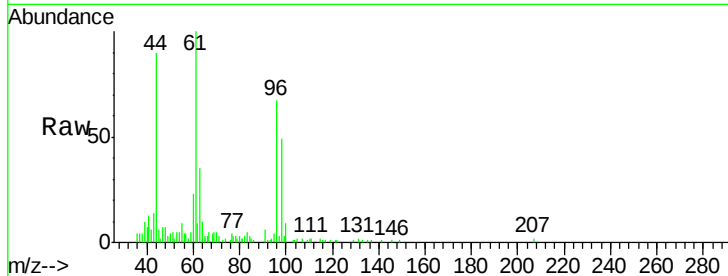
Tot Ion: 96 Resp: 6309

Ion Ratio Lower Upper

96 100

61 151.1 131.7 197.5

98 71.7 51.6 77.4



#13

Acrolein

Concen: 0.40 ug/l

RT: 2.27 min Scan# 276

Delta R.T. -0.03 min

Lab File: VX002024.D

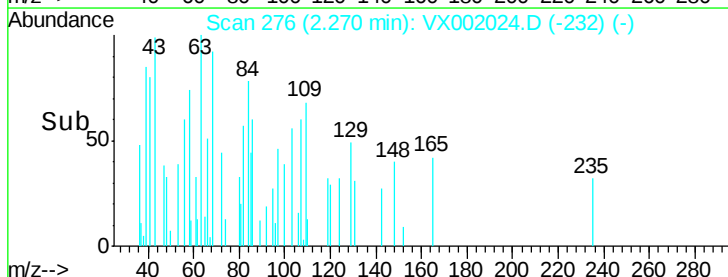
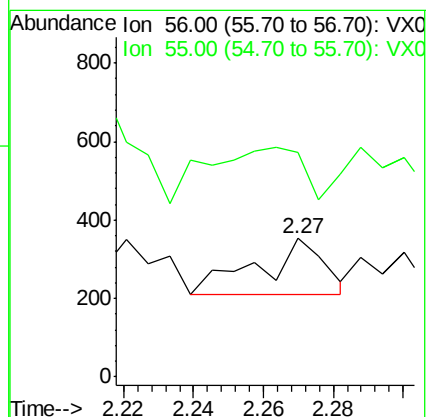
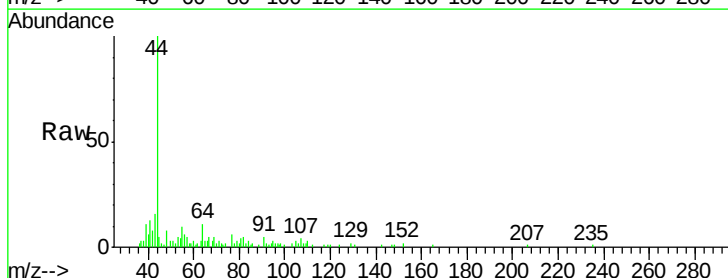
Acq: 26 May 2018 17:39

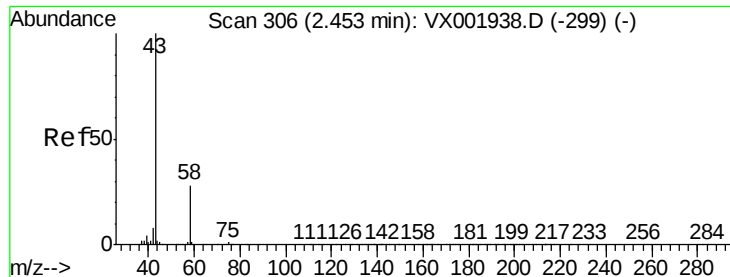
Tgt Ion: 56 Resp: 190

Ion Ratio Lower Upper

56 100

55 143.2 56.8 85.2#

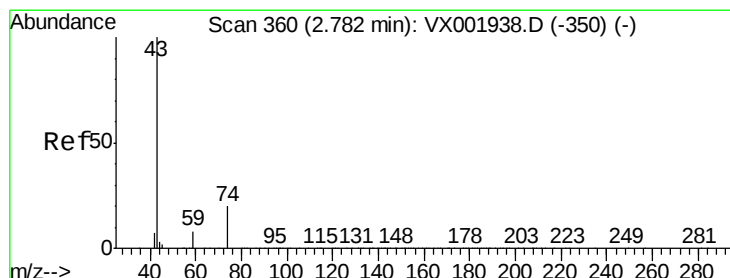
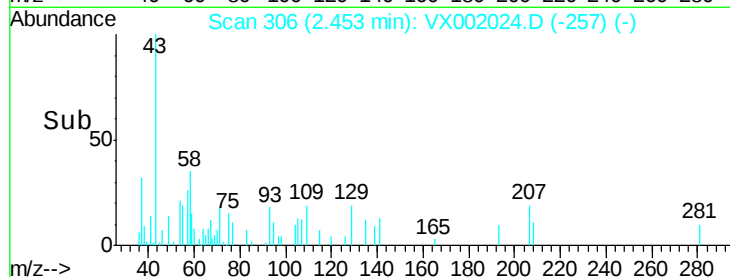
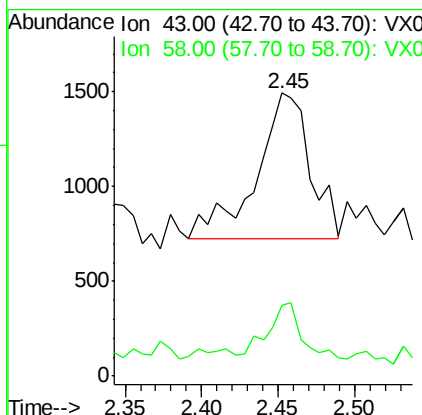
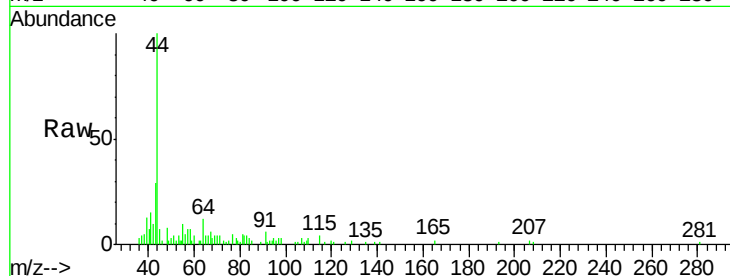




#16
Acetone
Concen: 0.88 ug/l
RT: 2.45 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

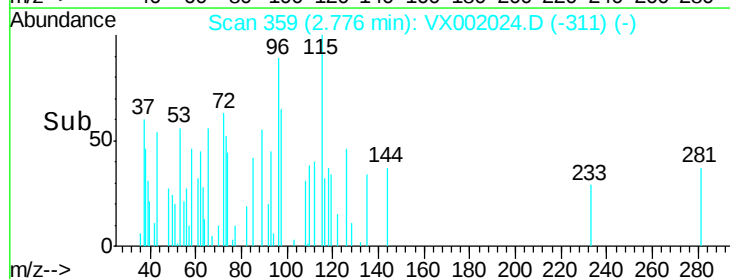
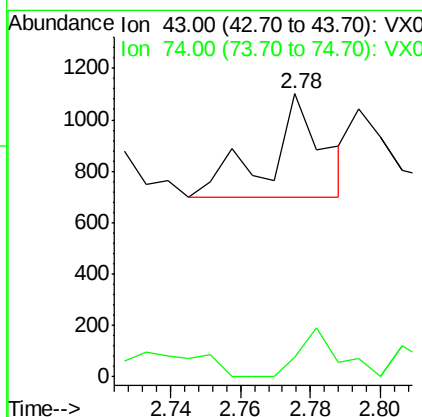
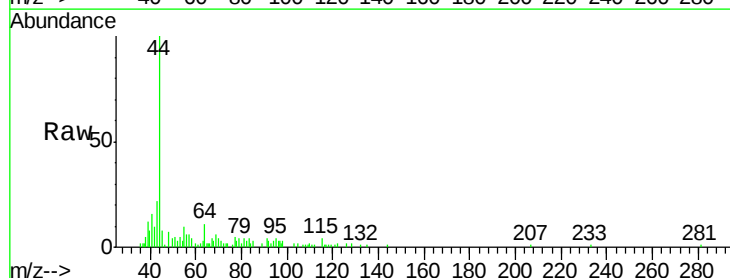
Instrument :
MSVOA_X
ClientSampleId :

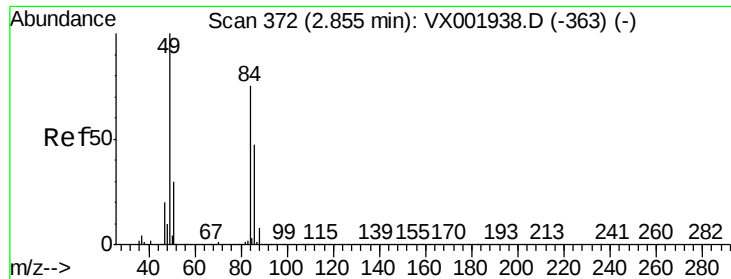
Tot Ion: 43 Resp: 1891
Ion Ratio Lower Upper
43 100
58 36.3 22.3 33.5#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

Tgt Ion: 43 Resp: 429
Ion Ratio Lower Upper
43 100
74 34.0 16.8 25.2#

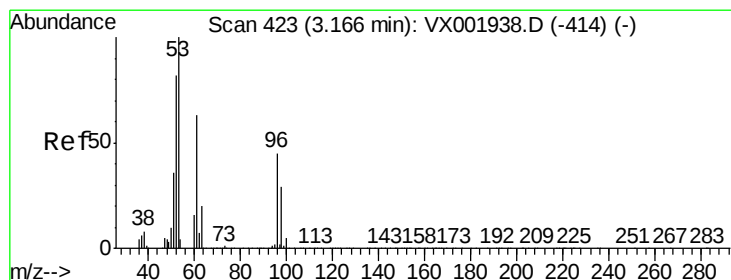
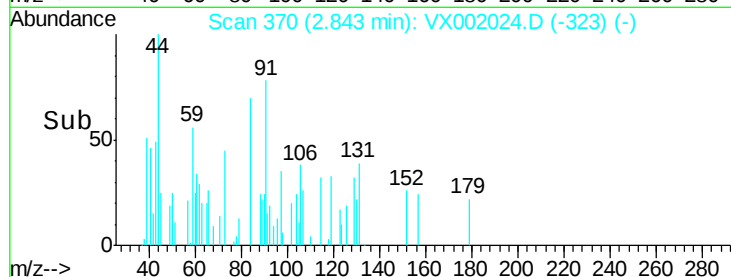
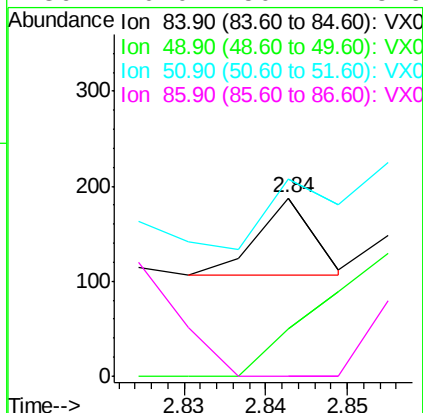
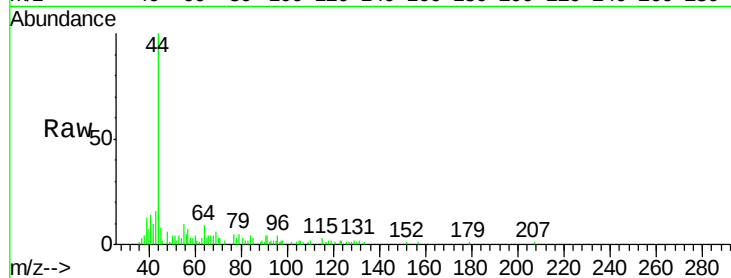




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 370
Delta R.T. -0.01 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

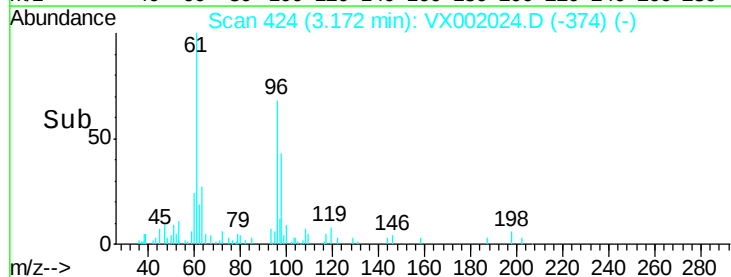
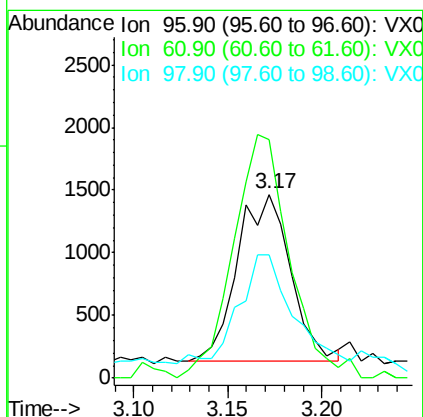
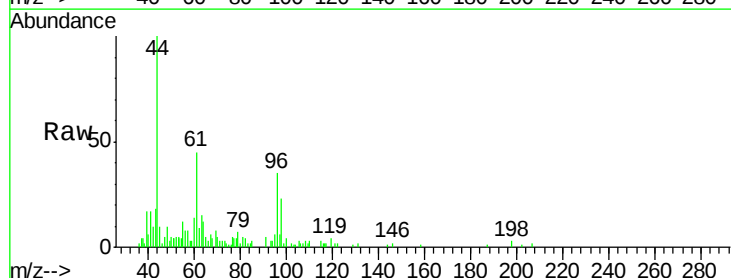
Instrument :
MSVOA_X
ClientSampleId :

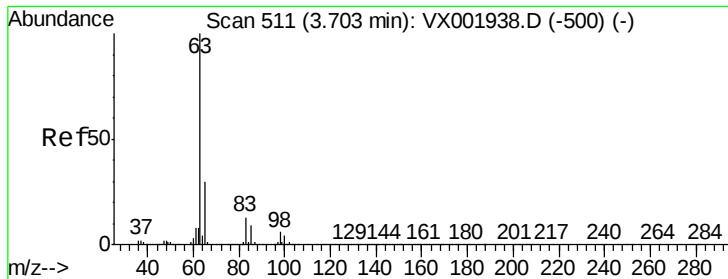
Tot Ion:	84	Resp:	39
Ion	Ratio	Lower	Upper
84	100		
49	61.0	107.2	160.8#
51	80.5	32.4	48.6#
86	0.0	50.4	75.6#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

Tgt Ion:	96	Resp:	2634
Ion	Ratio	Lower	Upper
96	100		
61	137.7	113.3	169.9
98	60.0	51.7	77.5





#24

1,1-Dichloroethane

Concen: 0.21 ug/l

RT: 3.70 min Scan# 511

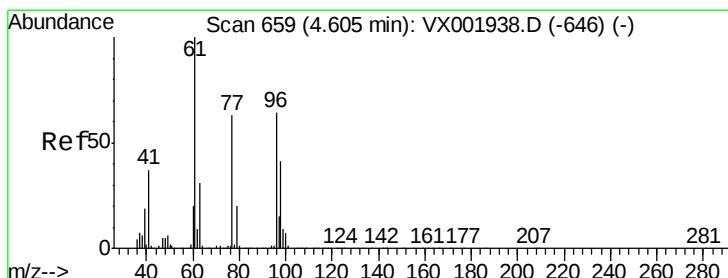
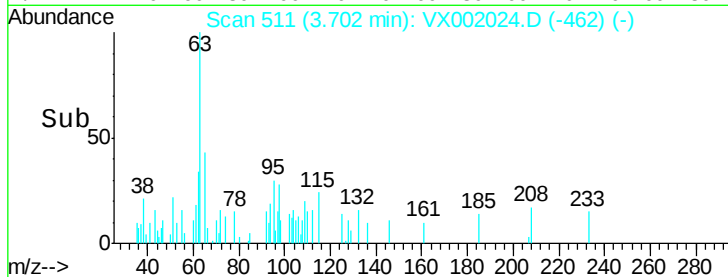
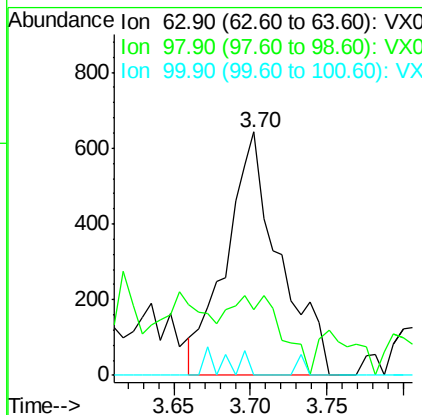
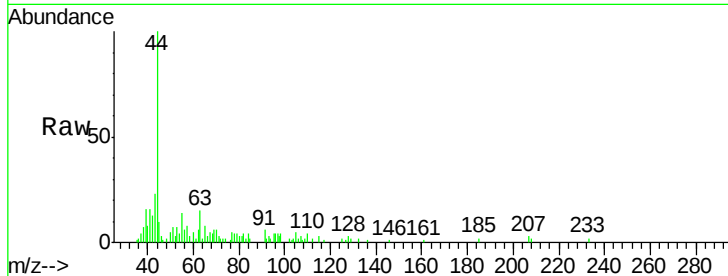
Delta R.T. -0.00 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	63	Resp:	1545
Ion	Ratio	Lower	Upper
63	100		
98	13.2	3.3	9.8#
100	0.0	2.1	6.5#



#27

cis-1,2-Dichloroethene

Concen: 4.27 ug/l

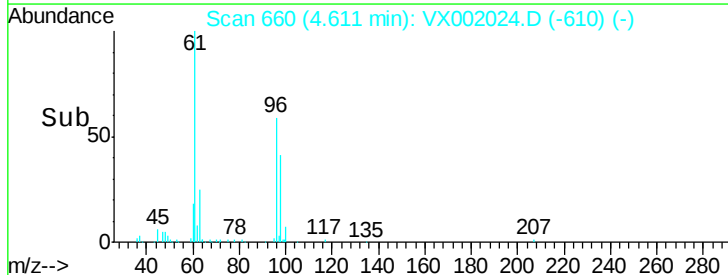
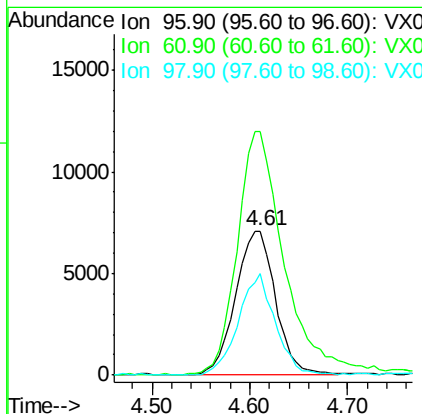
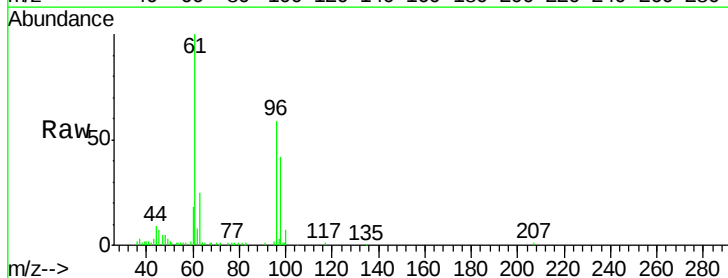
RT: 4.61 min Scan# 660

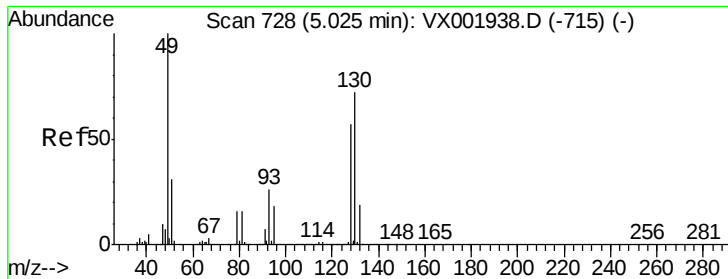
Delta R.T. 0.01 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Tgt Ion:	96	Resp:	20139
Ion	Ratio	Lower	Upper
96	100		
61	200.5	0.0	348.4
98	65.1	0.0	128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 4.91 min Scan# 709

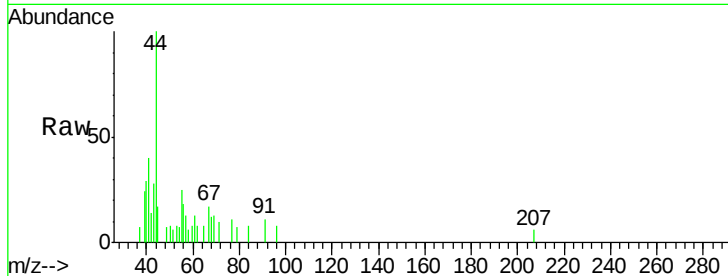
Delta R.T. -0.12 min

Lab File: VX002024.D

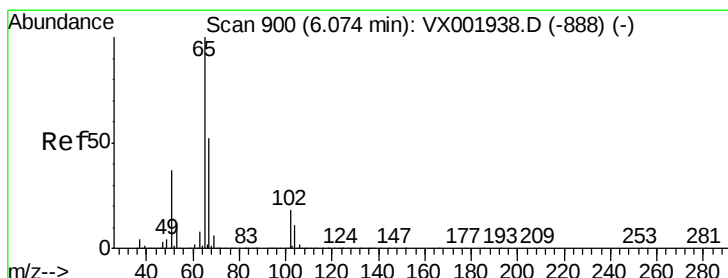
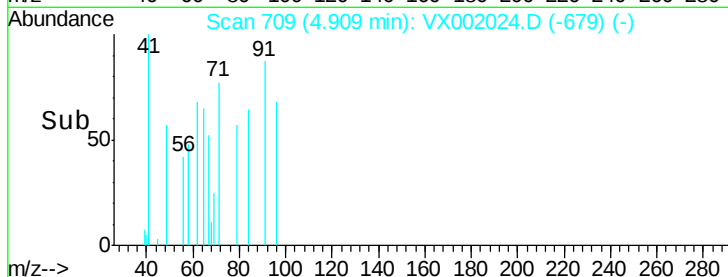
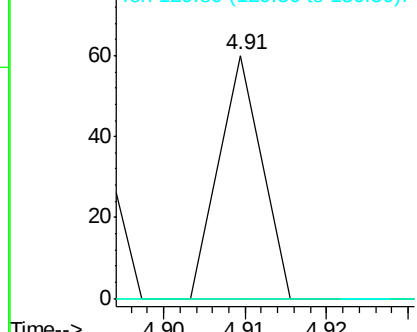
Acq: 26 May 2018 17:39

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#



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



#33

1,2-Dichloroethane-d4

Concen: 46.87 ug/l

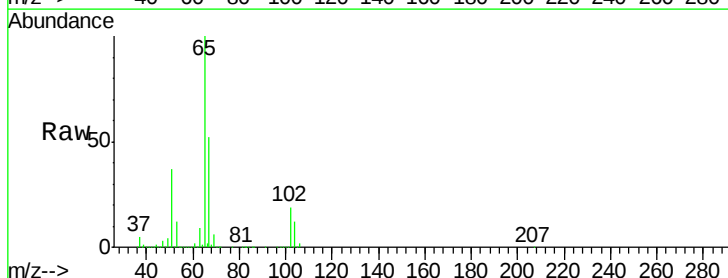
RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

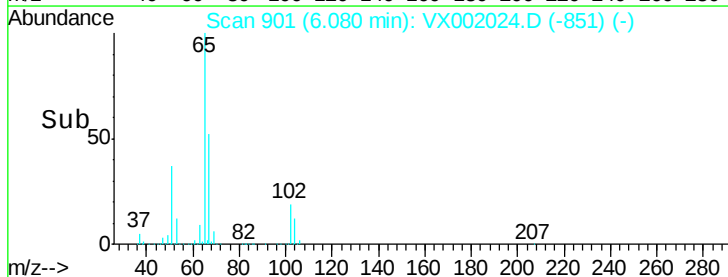
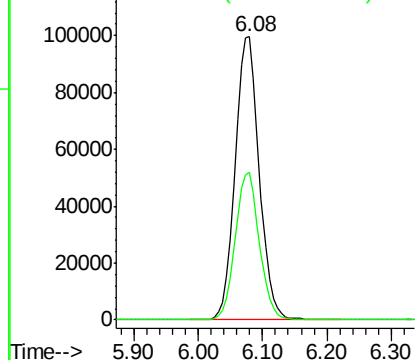
Lab File: VX002024.D

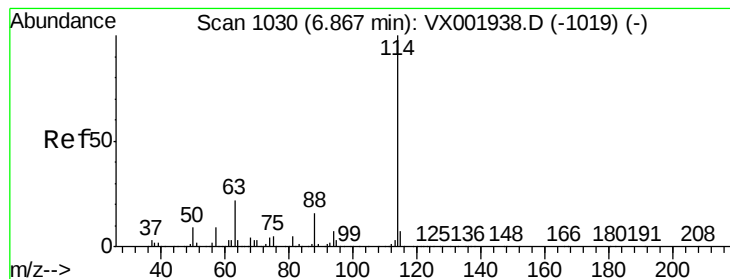
Acq: 26 May 2018 17:39

Tgt Ion: 65 Resp: 259932
Ion Ratio Lower Upper
65 100
67 52.2 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: VX002024.D

Acq: 26 May 2018 17:39

Instrument :

MSVOA_X

ClientSampleId :

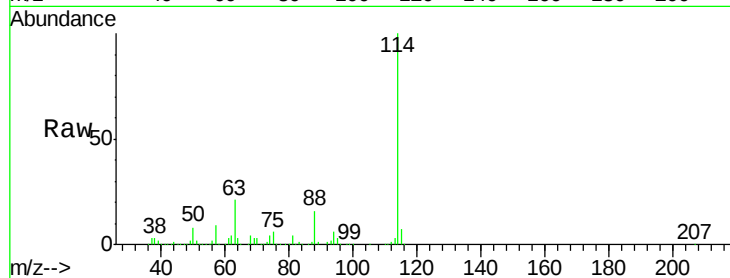
Tot Ion:114 Resp: 436417

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.2

88 15.7 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

150000

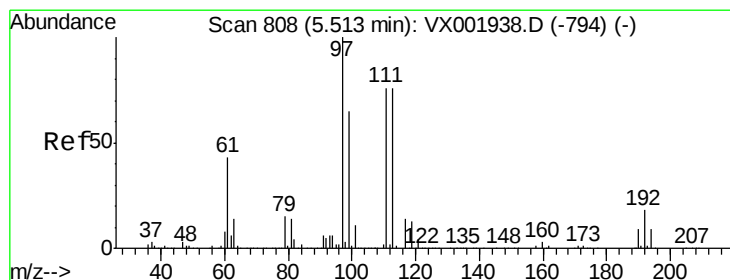
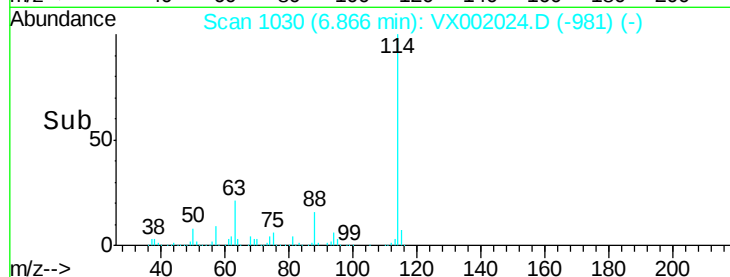
100000

50000

0

6.87

Time-->



#35

Dibromofluoromethane

Concen: 46.21 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

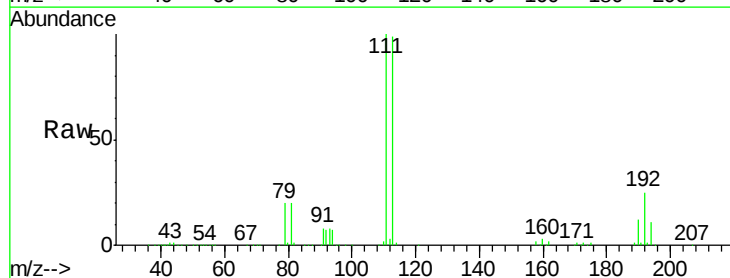
Tgt Ion:113 Resp: 201669

Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

192 23.7 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

100000

80000

60000

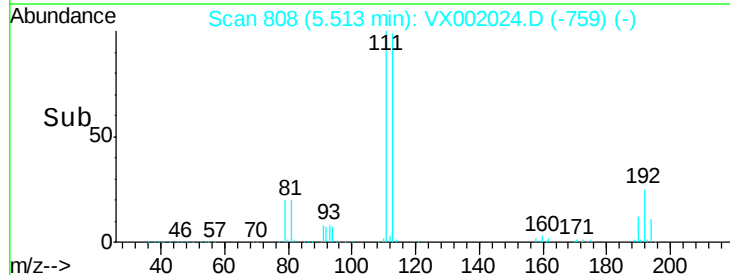
40000

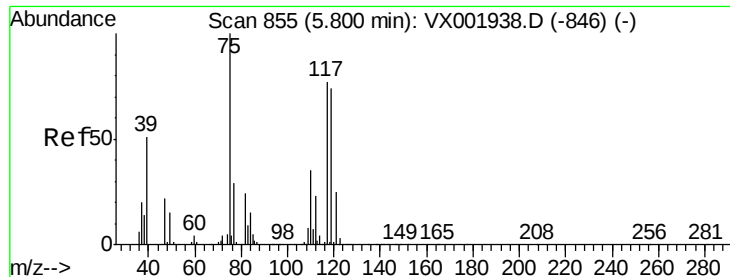
20000

0

5.51

Time-->

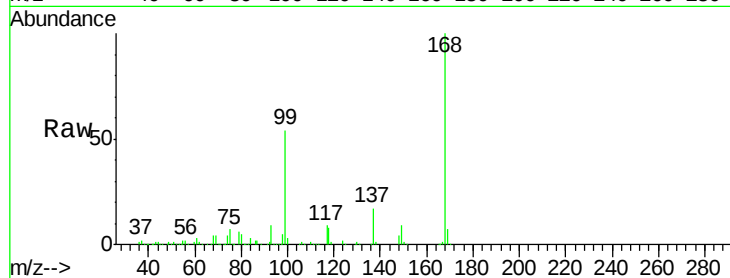




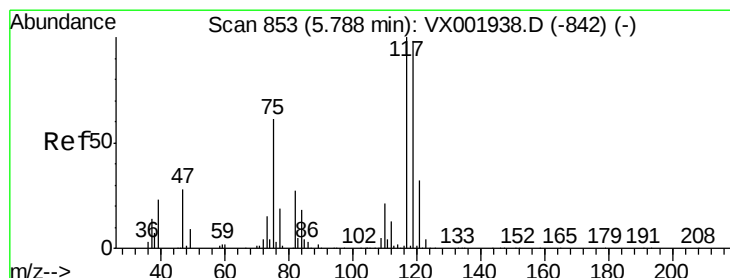
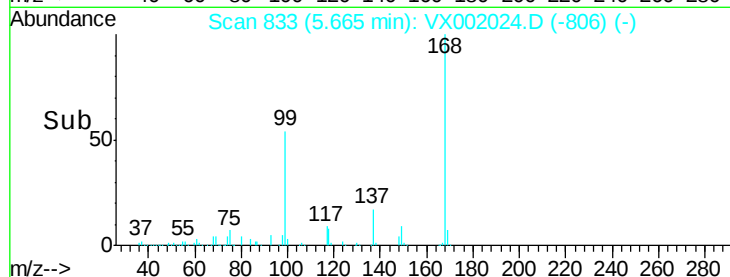
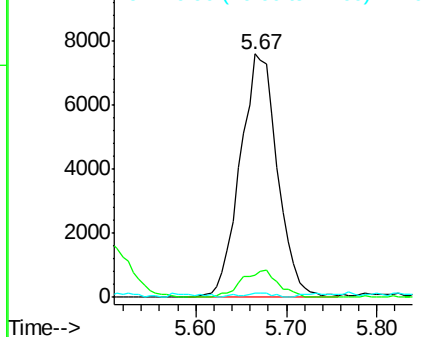
#36
 1,1-Dichloropropene
 Concen: 3.56 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002024.D
 Acq: 26 May 2018 17:39

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	17.4	52.2#
77	1.0	24.4	36.6#

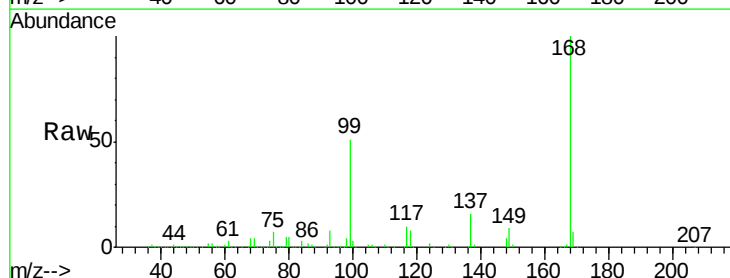


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

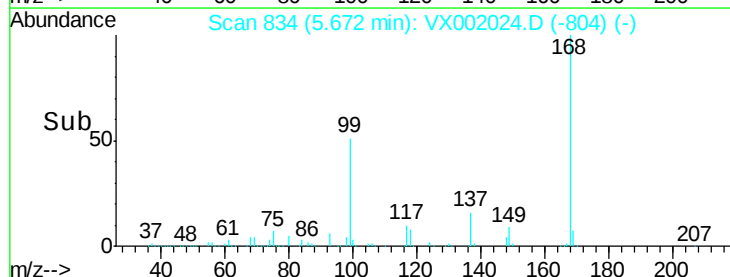
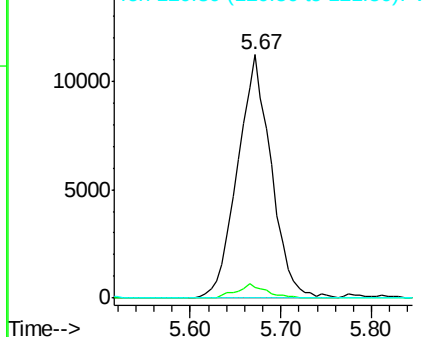


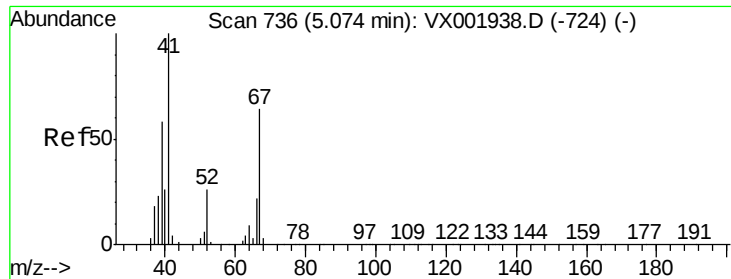
#38
 Carbon Tetrachloride
 Concen: 4.07 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002024.D
 Acq: 26 May 2018 17:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	78.5	117.7#
121	0.0	25.5	38.3#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

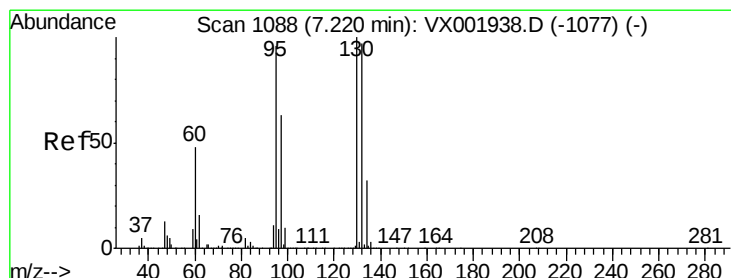
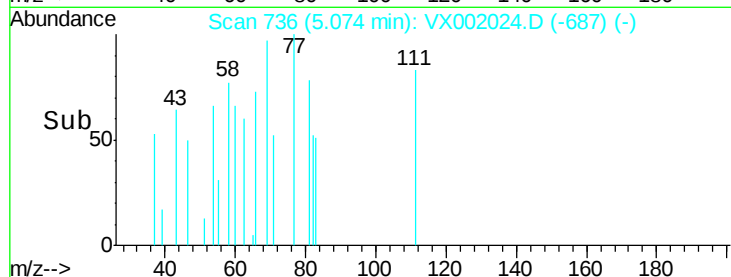
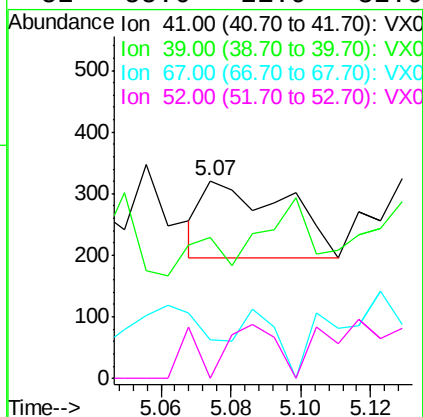
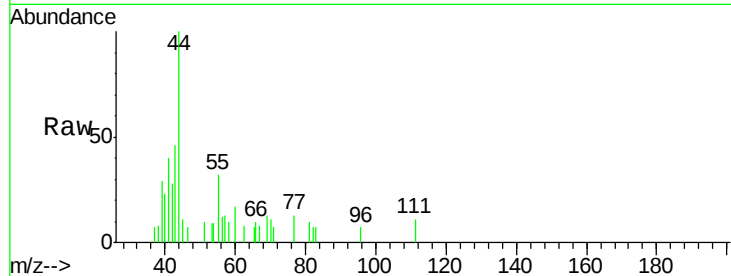




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.07 min Scan# 736
Delta R.T. 0.00 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

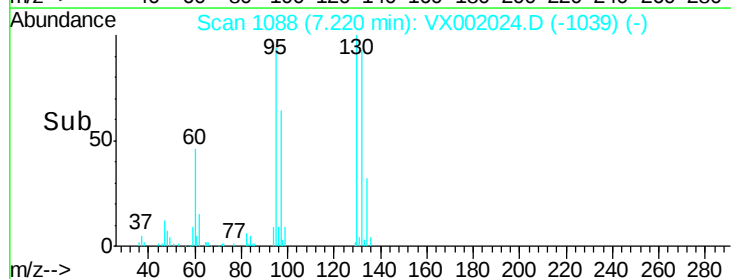
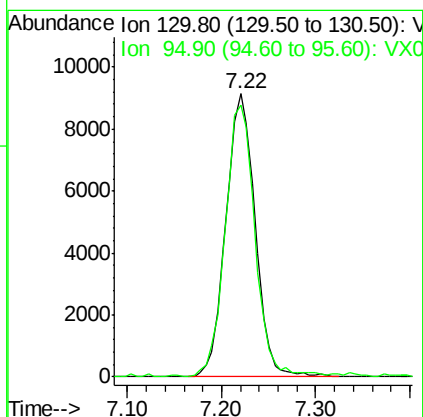
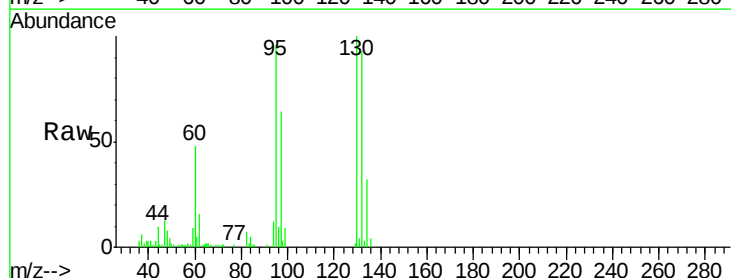
Instrument :
MSVOA_X
ClientSampled :

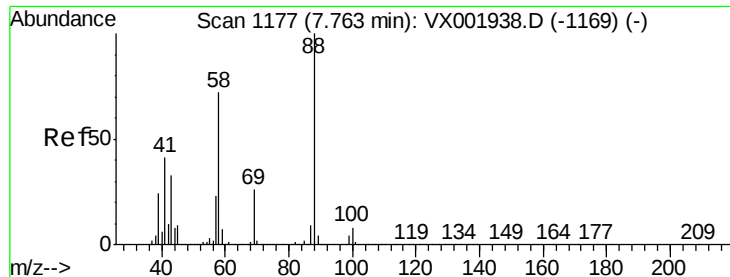
Tot Ion:	41	Resp:	205
Ion	Ratio	Lower	Upper
41	100		
39	23.4	46.0	69.0#
67	0.0	50.6	75.8#
52	55.6	21.9	32.9#



#44
Trichloroethene
Concen: 3.80 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

Tgt Ion:	130	Resp:	19704
Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	192.0





#49

1,4-Dioxane

Concen: 1.13 ug/l

RT: 7.77 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Instrument :

MSVOA_X

ClientSampled :

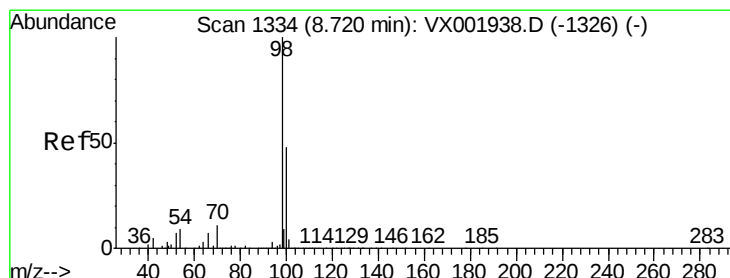
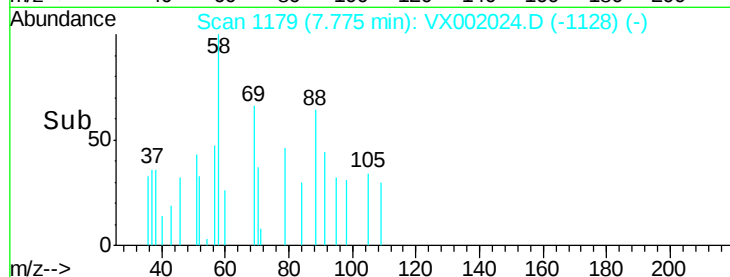
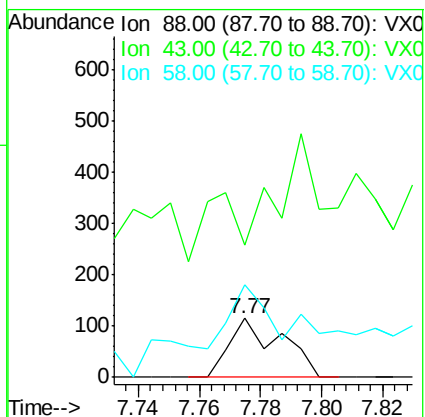
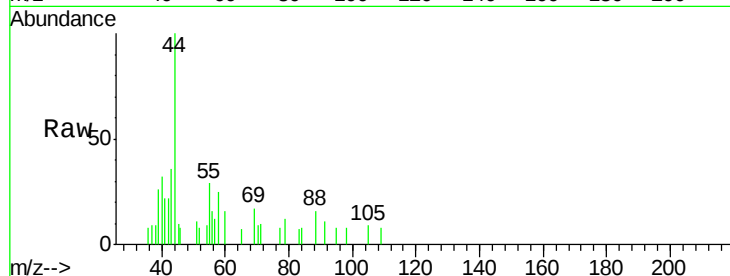
Tot Ion: 88 Resp: 134

Ion Ratio Lower Upper

88 100

43 77.6 29.8 44.8#

58 73.9 58.7 88.1



#50

Toluene-d8

Concen: 48.73 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002024.D

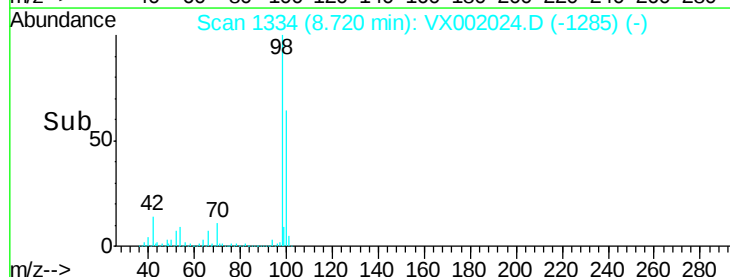
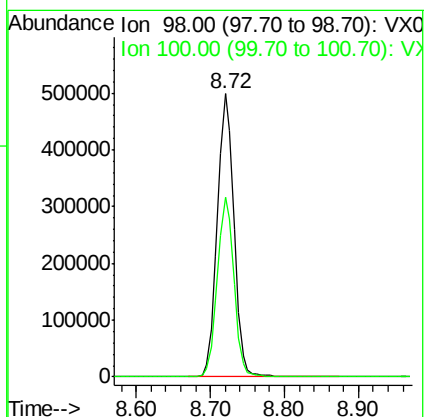
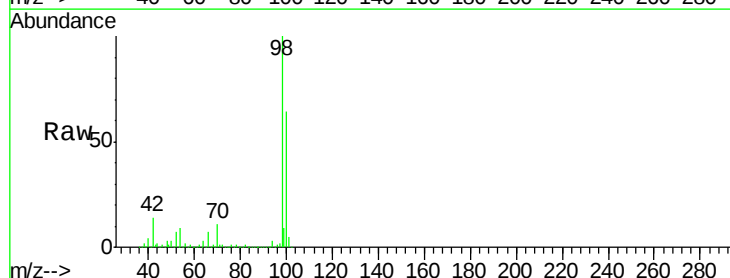
Acq: 26 May 2018 17:39

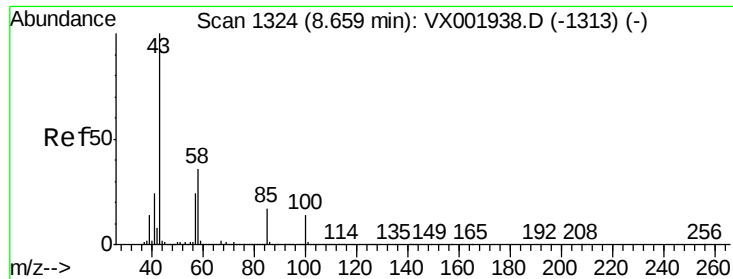
Tgt Ion: 98 Resp: 769893

Ion Ratio Lower Upper

98 100

100 63.2 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 0.52 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.06 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Instrument :

MSVOA_X

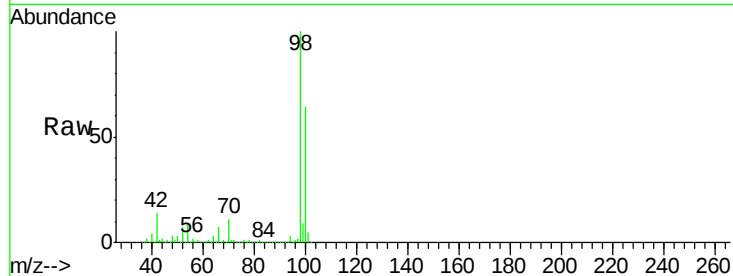
ClientSampleId :

Tot Ion: 43 Resp: 4146

Ion Ratio Lower Upper

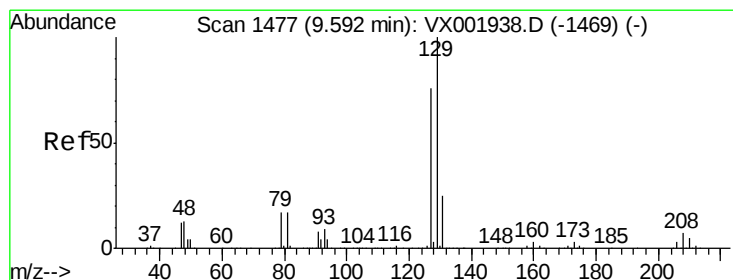
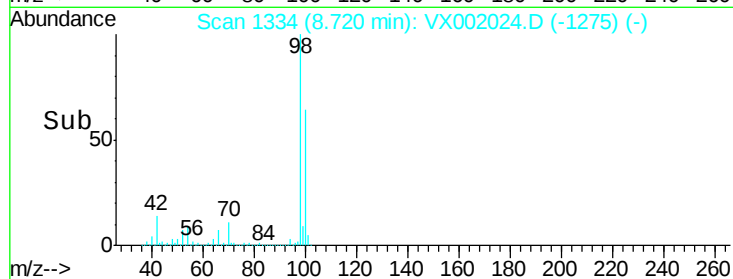
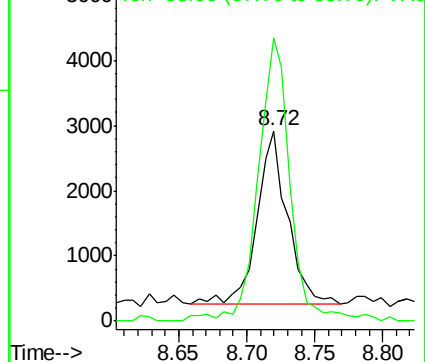
43 100

58 173.9 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VX001938.D (-1313) (-)

Ion 58.00 (57.70 to 58.70): VX001938.D (-1313) (-)



#60

Dibromochloromethane

Concen: 6.73 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX002024.D

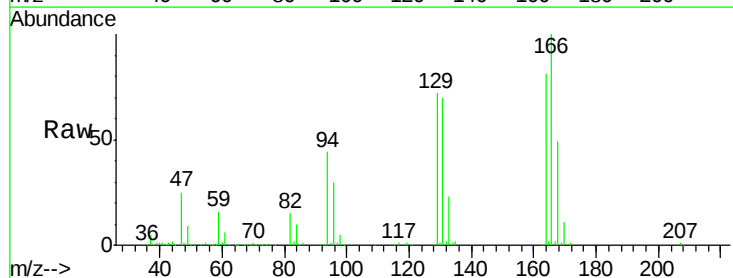
Acq: 26 May 2018 17:39

Tgt Ion: 129 Resp: 37681

Ion Ratio Lower Upper

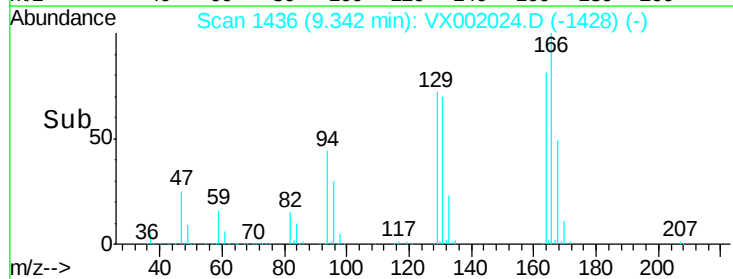
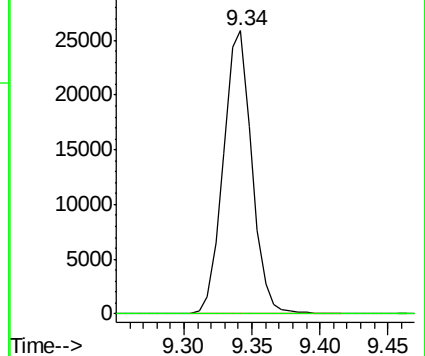
129 100

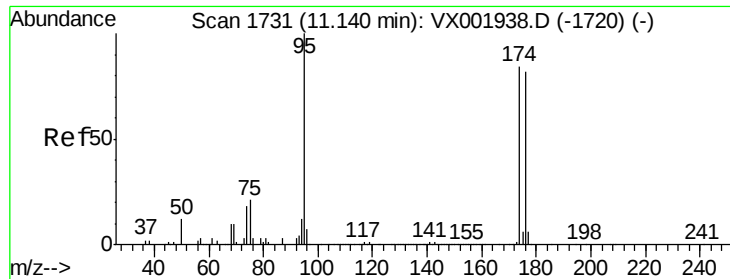
127 0.0 38.3 114.9#



Abundance Ion 128.80 (128.50 to 129.50): VX001938.D (-1469) (-)

Ion 126.80 (126.50 to 127.50): VX001938.D (-1469) (-)

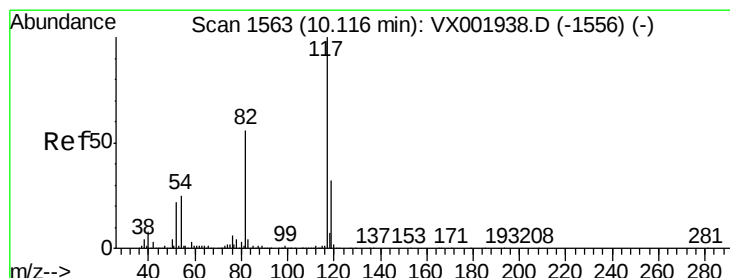
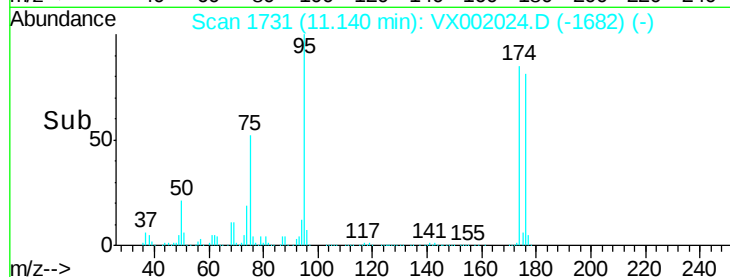
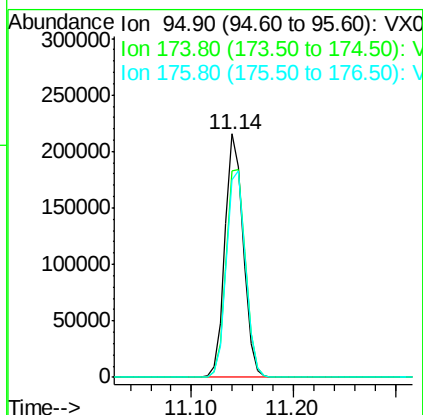
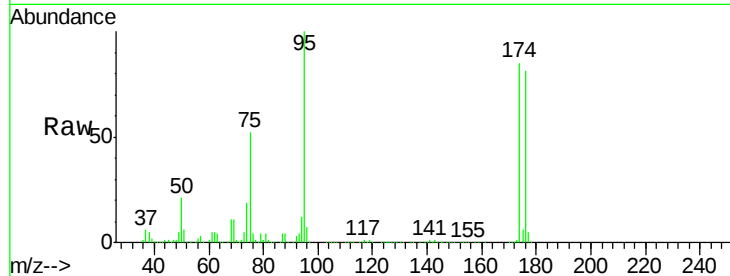




#62
4-Bromofluorobenzene
Concen: 43.52 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

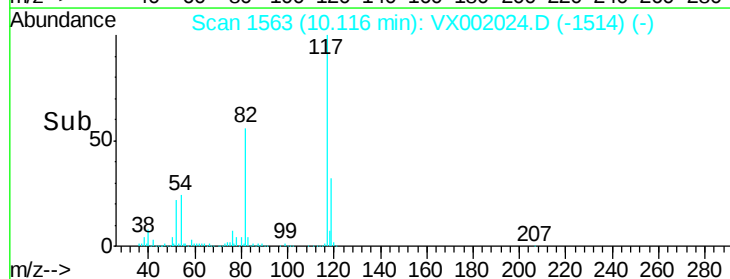
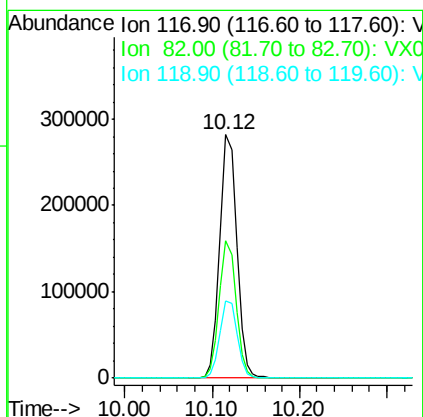
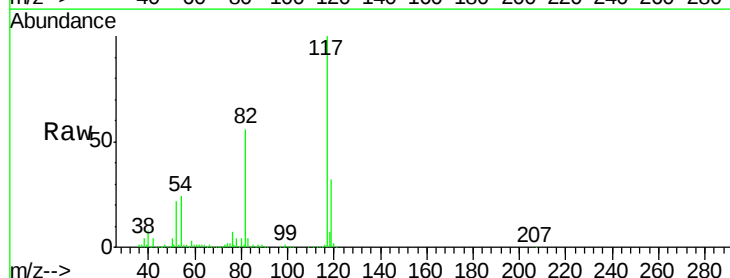
Instrument :
MSVOA_X
ClientSampleId :

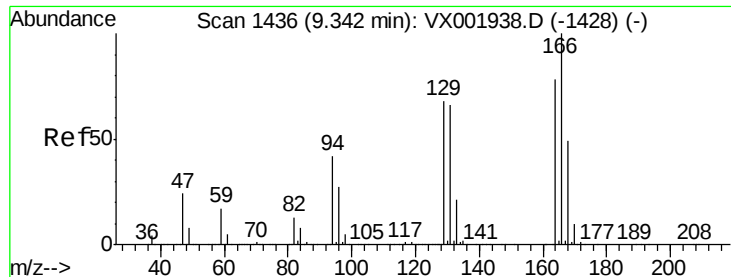
Tot Ion: 95 Resp: 269013
Ion Ratio Lower Upper
95 100
174 90.4 0.0 178.8
176 88.0 0.0 175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

Tgt Ion: 117 Resp: 381635
Ion Ratio Lower Upper
117 100
82 56.3 44.8 67.2
119 32.0 25.5 38.3

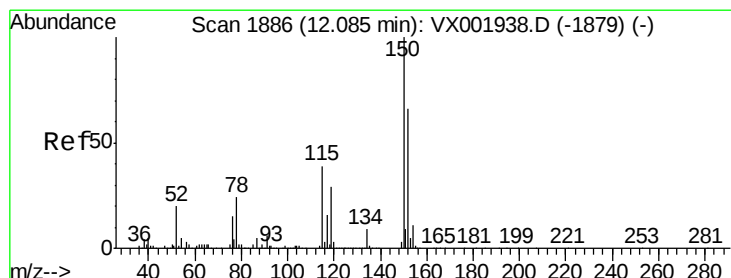
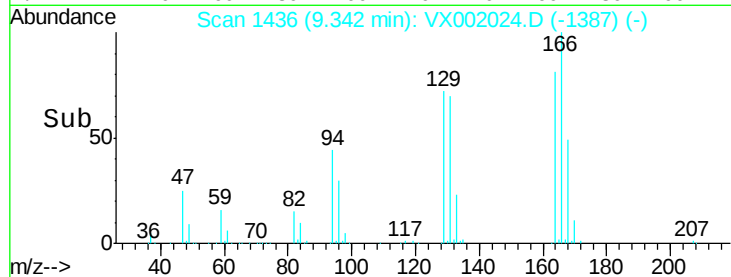
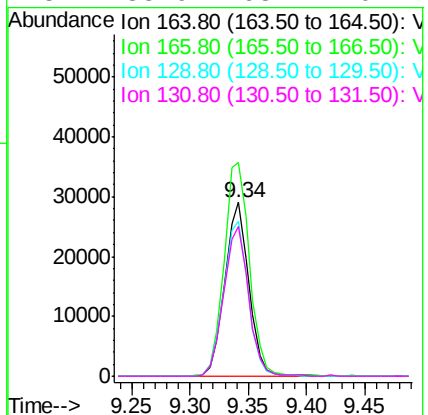
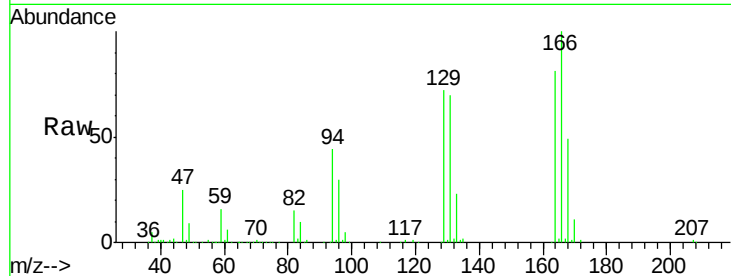




#64
Tetrachloroethene
Concen: 7.58 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.00 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

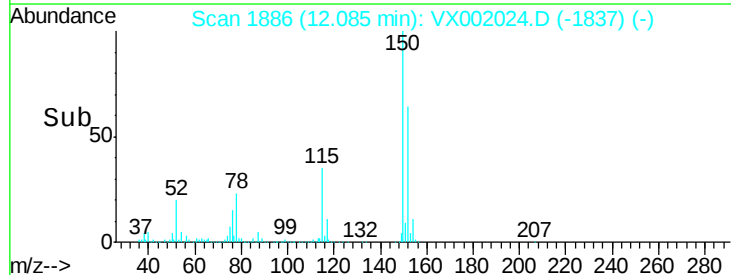
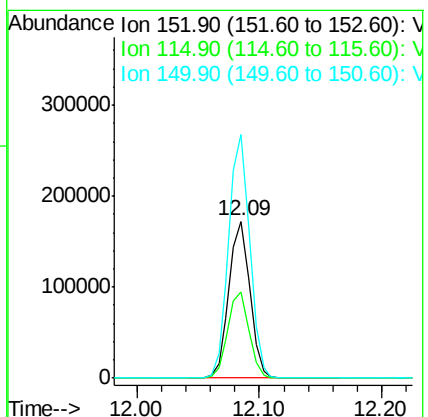
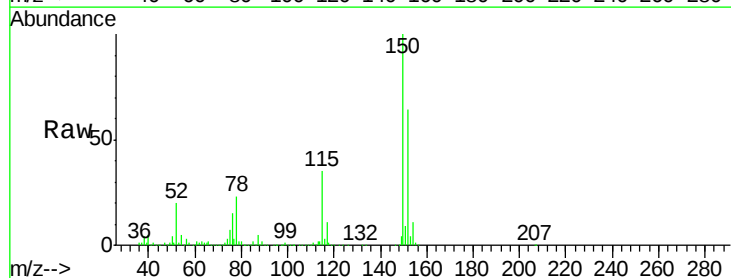
Instrument :
MSVOA_X
ClientSampleId :

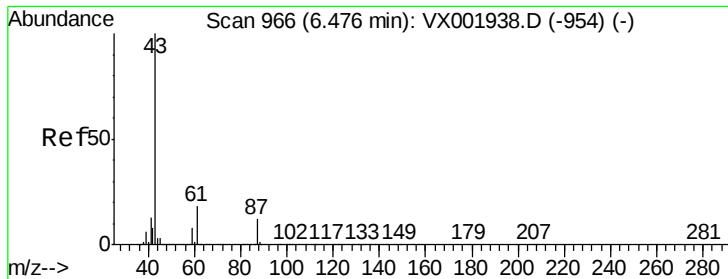
Tot Ion:164 Resp: 41476
Ion Ratio Lower Upper
164 100
166 123.0 102.7 154.1
129 89.1 70.3 105.5
131 85.9 68.2 102.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002024.D
Acq: 26 May 2018 17:39

Tgt Ion:152 Resp: 204364
Ion Ratio Lower Upper
152 100
115 55.6 42.3 126.8
150 156.1 0.0 351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 110

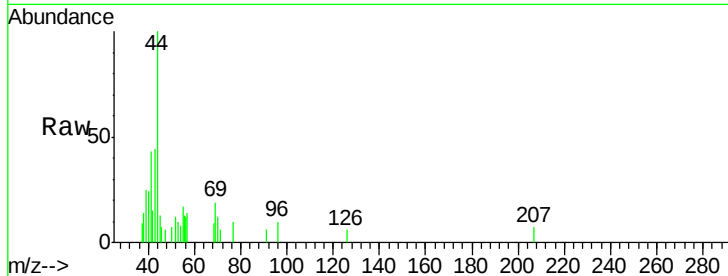
Ion Ratio Lower Upper

43 100

70 92.7 0.1 0.1#

55 0.0 0.1 0.1#

61 0.0 14.5 21.7#



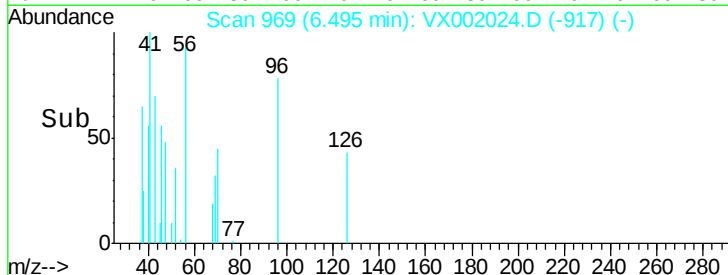
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Time--> 6.44 6.46 6.48 6.50 6.52



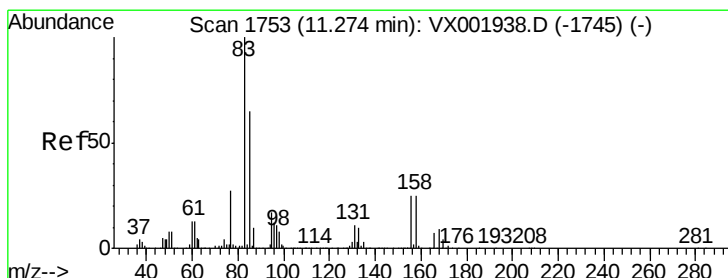
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

Time--> 6.44 6.46 6.48 6.50 6.52



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.24 min Scan# 1748

Delta R.T. -0.03 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

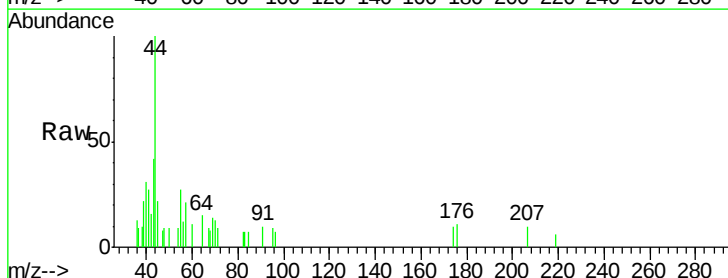
Tgt Ion: 83 Resp: 23

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 95.7 32.6 97.7

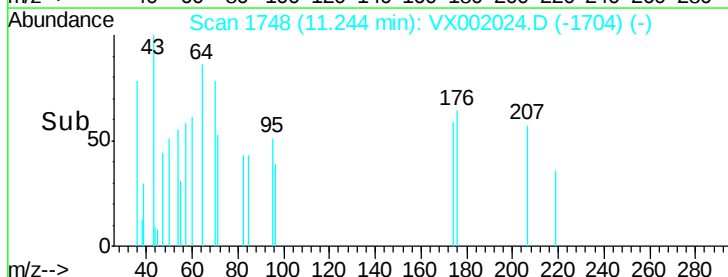


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

Time--> 11.23 11.24 11.25 11.26

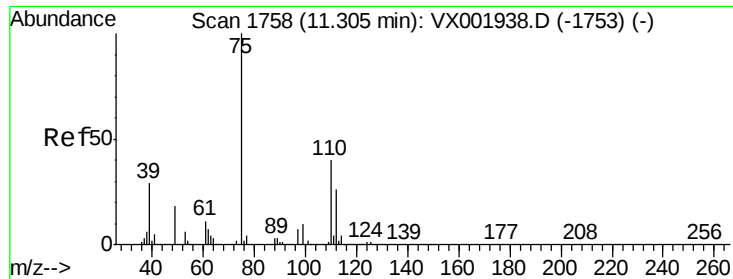


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

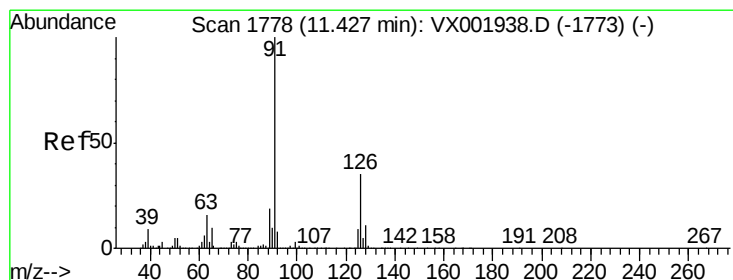
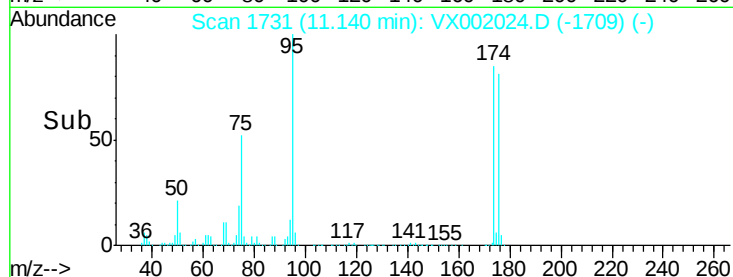
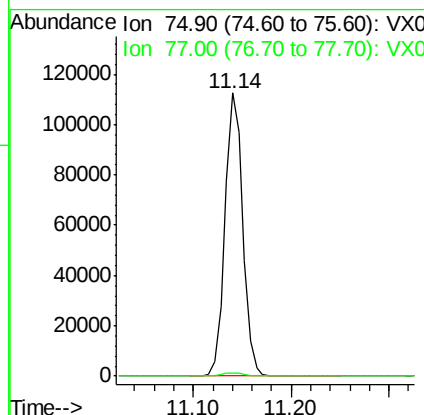
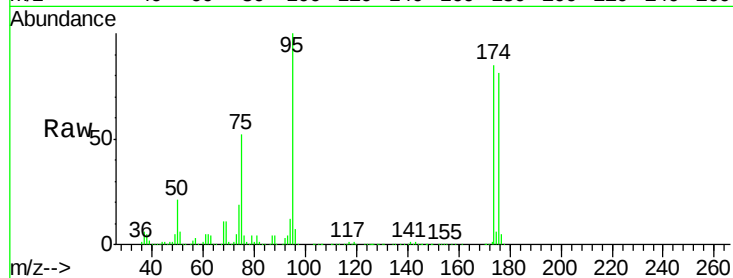
Time--> 11.23 11.24 11.25 11.26



#76
 1,2,3-Trichloropropane
 Concen: 28.85 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002024.D
 Acq: 26 May 2018 17:39

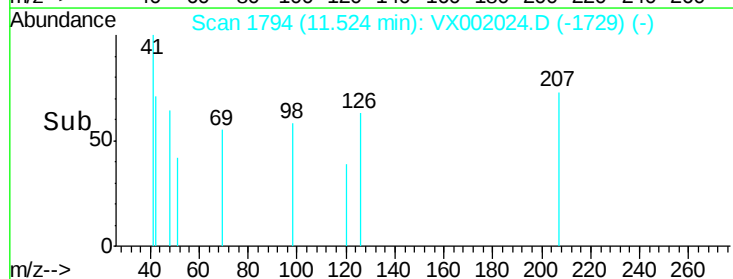
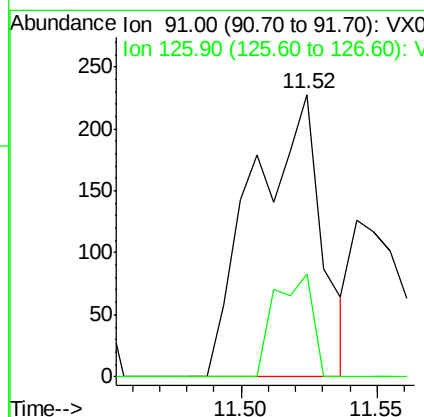
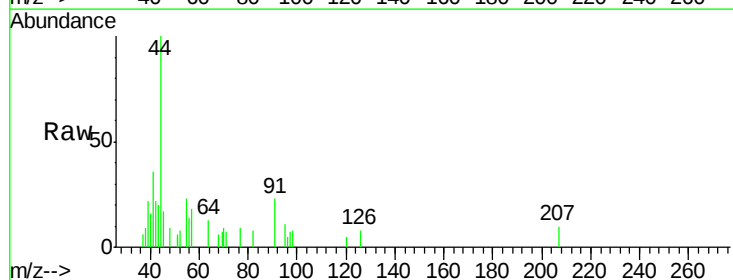
Instrument :
 MSVOA_X
 ClientSampleId :

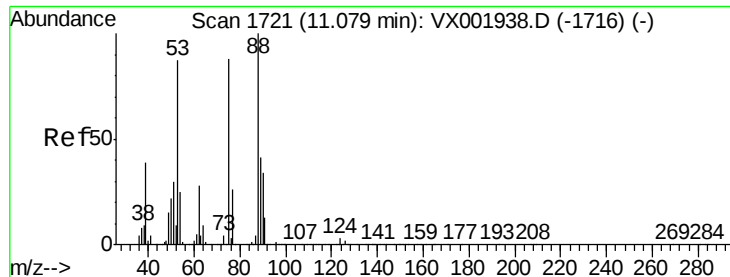
Tot Ion: 75 Resp: 141619
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.52 min Scan# 1794
 Delta R.T. 0.10 min
 Lab File: VX002024.D
 Acq: 26 May 2018 17:39

Tgt Ion: 91 Resp: 396
 Ion Ratio Lower Upper
 91 100
 126 20.2 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 69.34 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002024.D

Acq: 26 May 2018 17:39

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 141619

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

