

Data File : VX001954.D
Acq On : 24 May 2018 21:11
Operator : JC/MD
Sample : J3075-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RO-4-1

Quant Time: May 25 03:38:23 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	343309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	526626	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	486611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	259970	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	269894	43.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.96%	
35) Dibromofluoromethane	5.51	113	210268	39.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.86%	
50) Toluene-d8	8.72	98	757072	39.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.42%	
62) 4-Bromofluorobenzene	11.14	95	280052	37.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.08%	

Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.20	85	129	Below Cal	#	1
5) Bromomethane	1.65	94	1442	Below Cal		90
8) Diethyl Ether	2.20	74	1510	0.54	ug/l	98
10) Methyl Iodide	2.52	142	1309	0.23	ug/l	# 66
13) Acrolein	2.28	56	245	0.47	ug/l	# 61
16) Acetone	2.45	43	18952	8.00	ug/l	97
18) Methyl Acetate	2.79	43	31863	4.55	ug/l	98
20) Methylene Chloride	2.86	84	58227	12.96	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	318	Below Cal	#	13
25) 2-Butanone	4.73	43	4142	0.95	ug/l	98
28) Bromochloromethane	5.03	49	61	Below Cal	#	73
29) Tetrahydrofuran	5.20	42	2188	0.77	ug/l	# 83
30) Chloroform	5.23	83	5793	0.63	ug/l	85
36) 1,1-Dichloropropene	5.67	75	24126	3.29	ug/l	# 54
38) Carbon Tetrachloride	5.67	117	31809	3.72	ug/l	# 14
41) Methacrylonitrile	5.12	41	445	Below Cal	#	71
48) Methyl methacrylate	7.76	41	5649	0.70	ug/l	# 26
74) N-amyl acetate	6.48	43	515	Below Cal	#	74
75) 1,1,2,2-Tetrachloroethane	11.24	83	142	Below Cal		72
76) 1,2,3-Trichloropropane	11.14	75	145194	23.25	ug/l	# 33
79) 2-Chlorotoluene	11.68	91	219	Below Cal		95
81) trans-1,4-Dichloro-2-buten	11.14	75	145194	55.88	ug/l	# 10
95) Naphthalene	13.84	128	68133	2.90	ug/l	99

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

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ALS Vial      : 21      Sample Multiplier: 1
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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: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampleId :

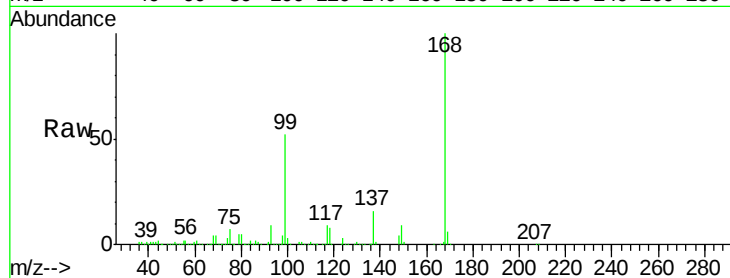
RO-4-1

Tgt Ion:168 Resp: 343309

Ion Ratio Lower Upper

168 100

99 51.9 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

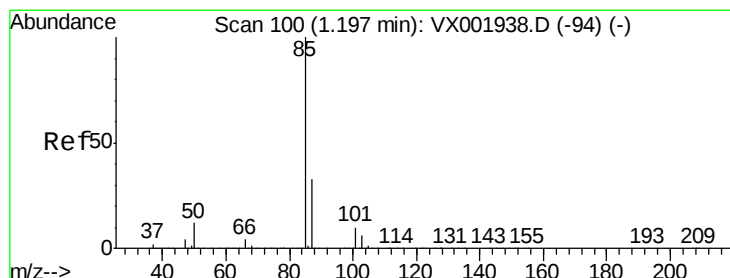
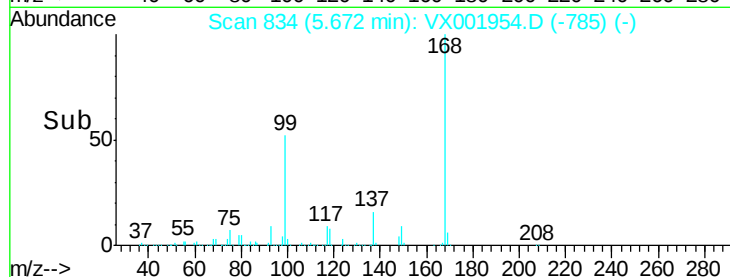
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX001954.D

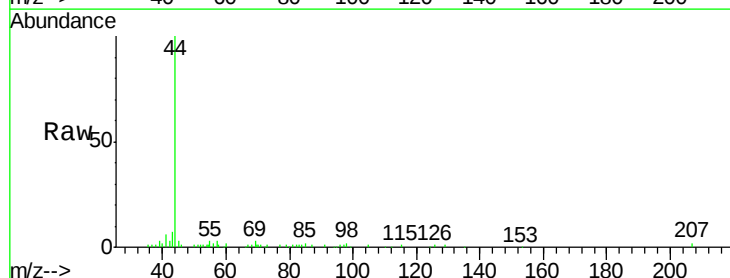
Acq: 24 May 2018 21:11

Tgt Ion: 85 Resp: 129

Ion Ratio Lower Upper

85 100

87 141.3 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

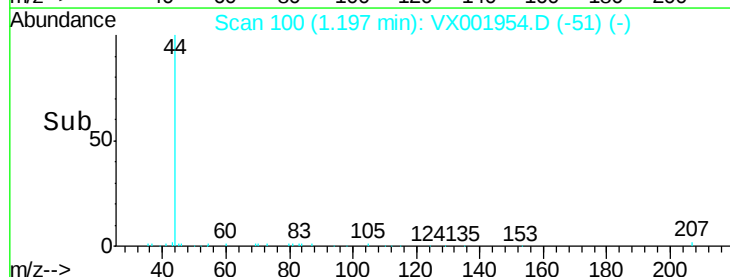
300

200

100

0

Time--> 1.18 1.20 1.22





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampleId :

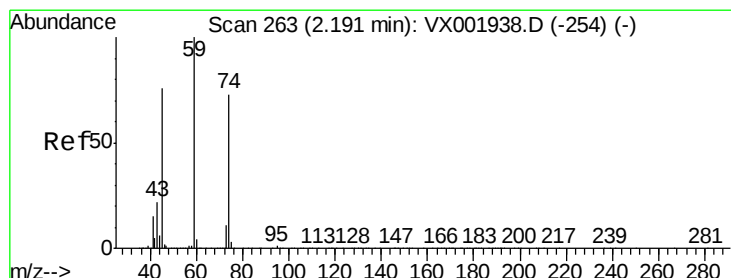
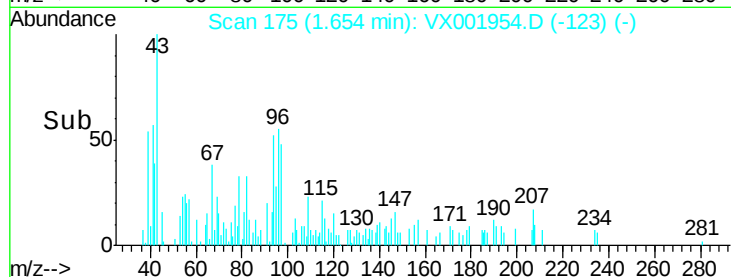
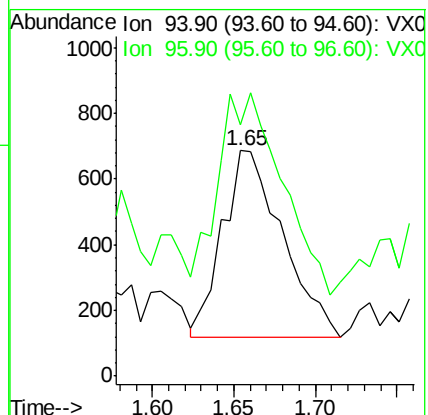
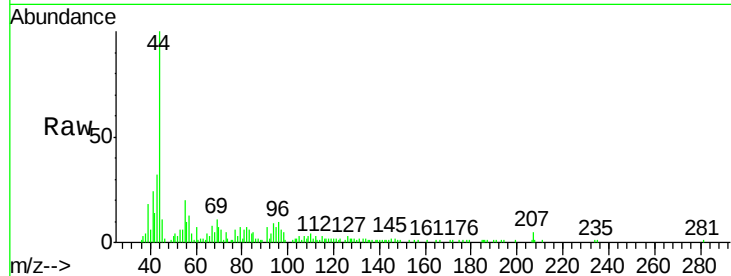
RO-4-1

Tgt Ion: 94 Resp: 1442

Ion Ratio Lower Upper

94 100

96 85.2 75.9 113.9



#8

Diethyl Ether

Concen: 0.54 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX001954.D

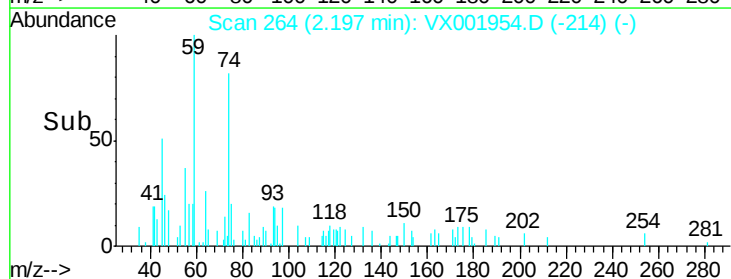
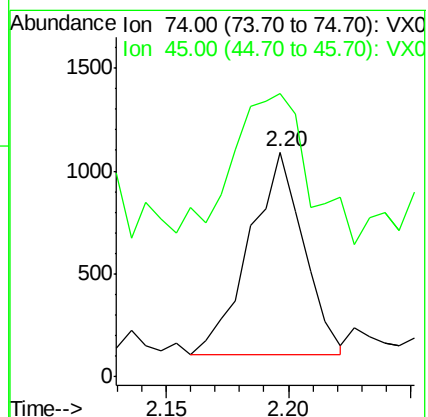
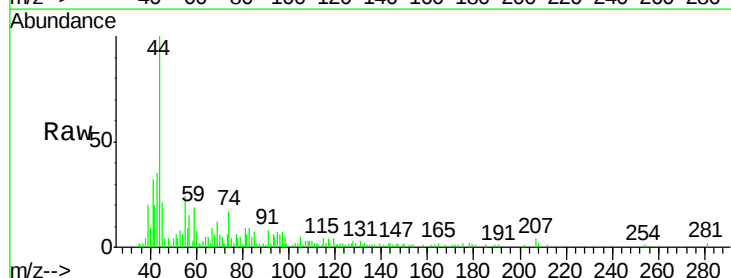
Acq: 24 May 2018 21:11

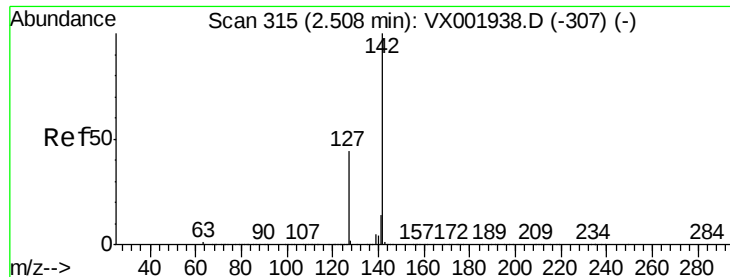
Tgt Ion: 74 Resp: 1510

Ion Ratio Lower Upper

74 100

45 104.8 51.5 154.7

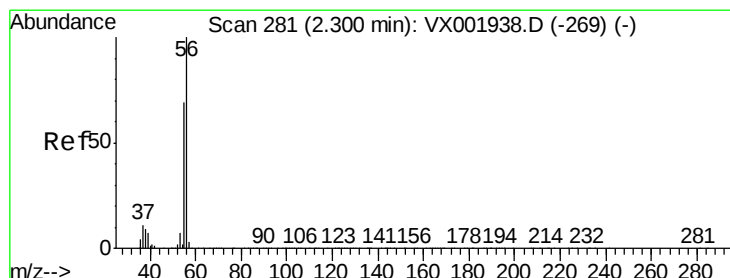
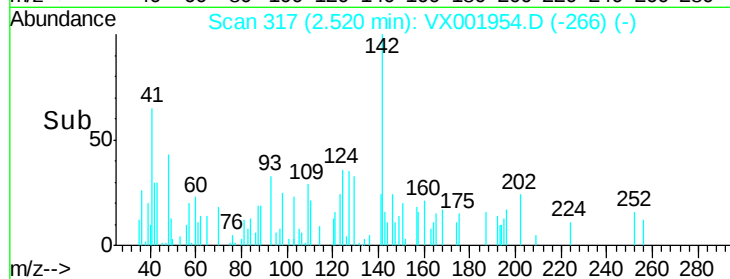
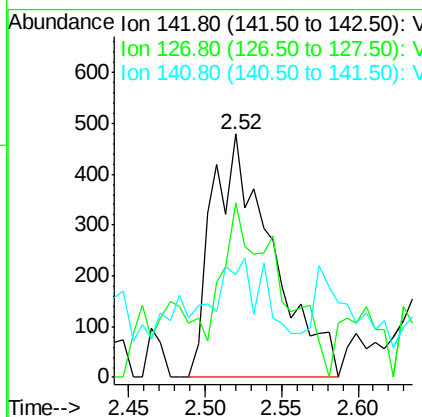
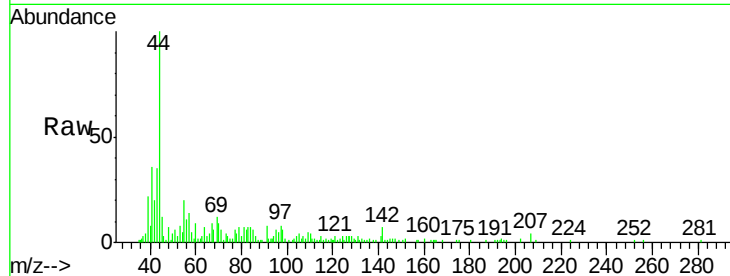




#10
Methyl Iodide
Concen: 0.23 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX001954.D
Acq: 24 May 2018 21:11

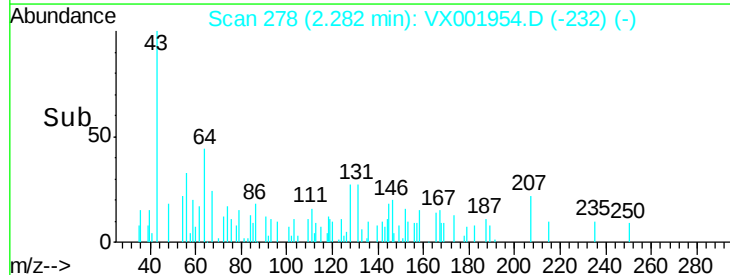
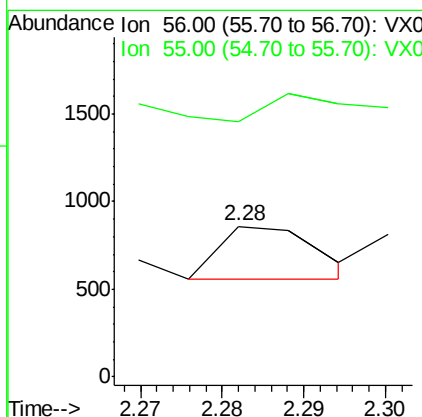
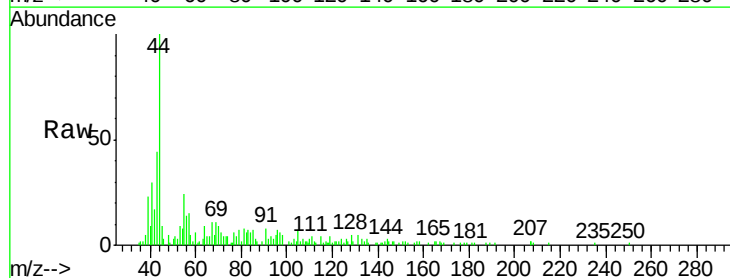
Instrument :
MSVOA_X
ClientSampled :
RO-4-1

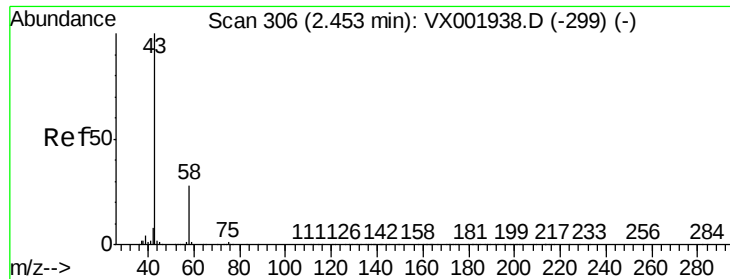
Tgt Ion: 142 Resp: 1309
Ion Ratio Lower Upper
142 100
127 67.2 35.5 53.3#
141 26.7 11.3 16.9#



#13
Acrolein
Concen: 0.47 ug/l
RT: 2.28 min Scan# 278
Delta R.T. -0.02 min
Lab File: VX001954.D
Acq: 24 May 2018 21:11

Tgt Ion: 56 Resp: 245
Ion Ratio Lower Upper
56 100
55 103.3 56.8 85.2#





#16

Acetone

Concen: 8.00 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampleId :

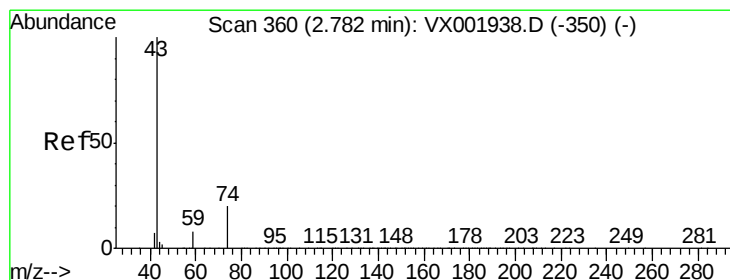
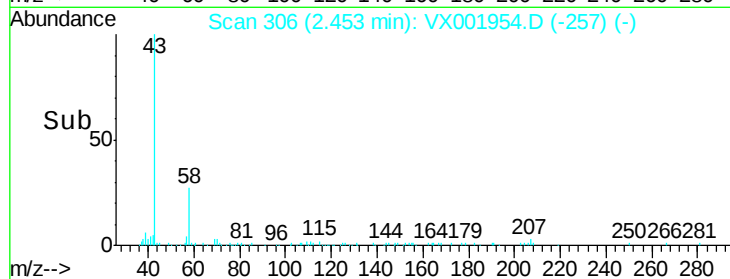
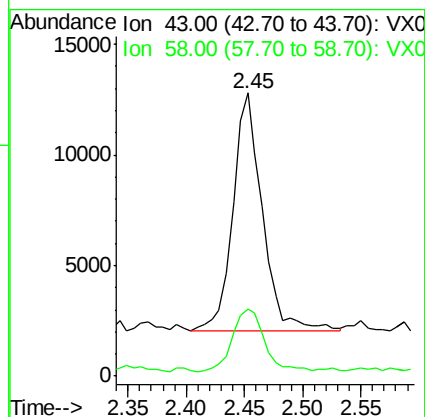
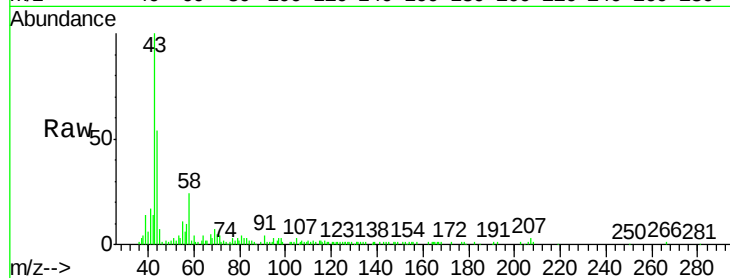
RO-4-1

Tgt Ion: 43 Resp: 18952

Ion Ratio Lower Upper

43 100

58 26.3 22.3 33.5



#18

Methyl Acetate

Concen: 4.55 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX001954.D

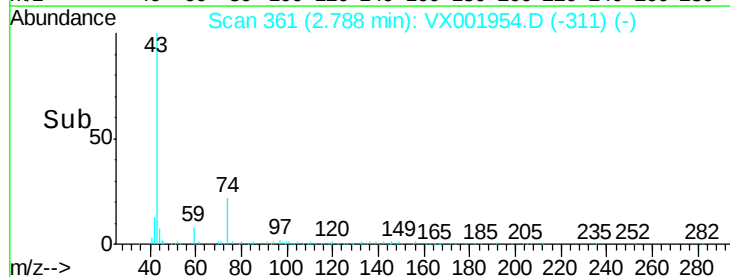
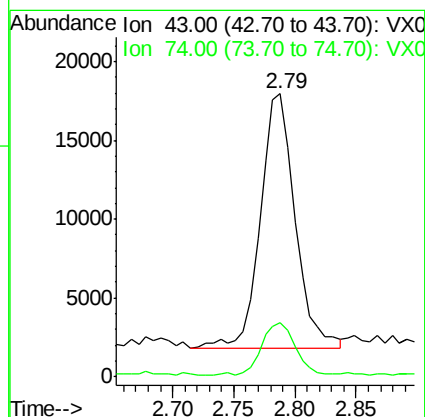
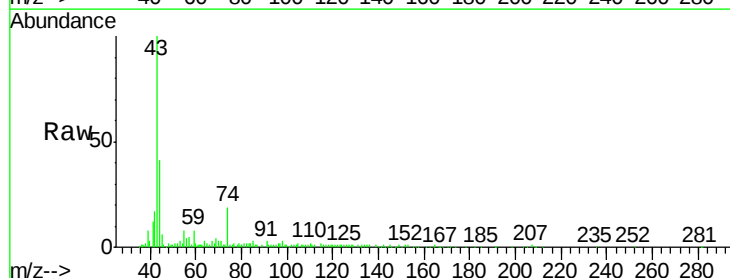
Acq: 24 May 2018 21:11

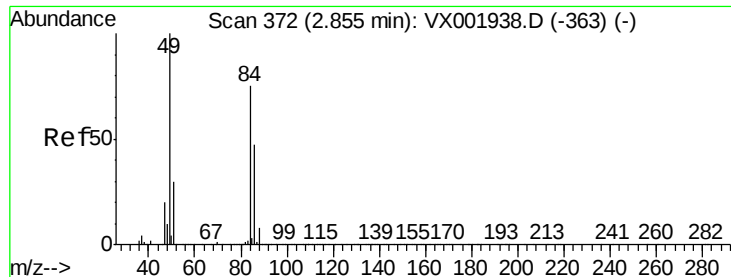
Tgt Ion: 43 Resp: 31863

Ion Ratio Lower Upper

43 100

74 19.9 16.8 25.2

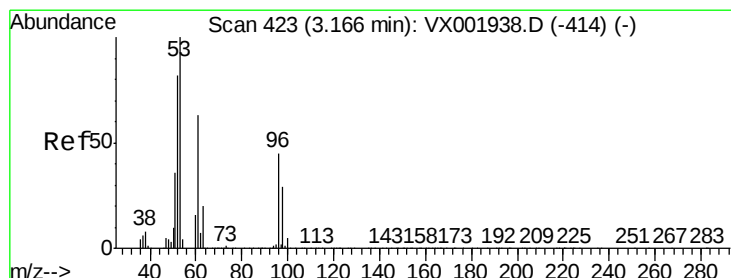
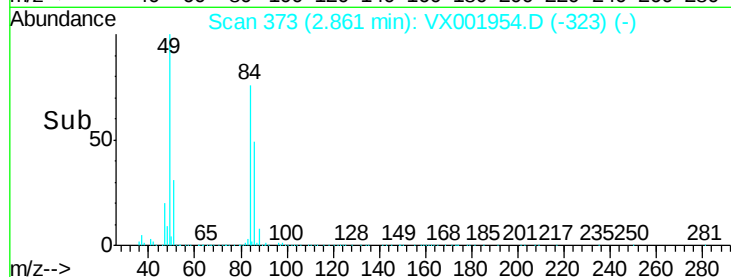
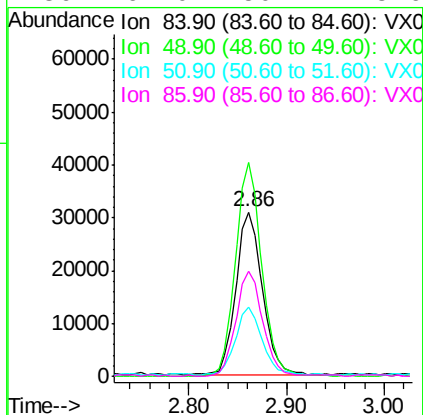
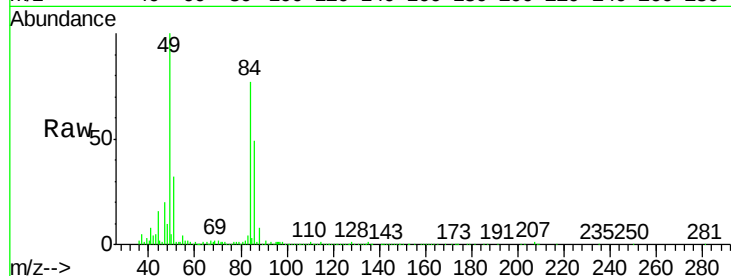




#20
Methylene Chloride
Concen: 12.96 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX001954.D
Acq: 24 May 2018 21:11

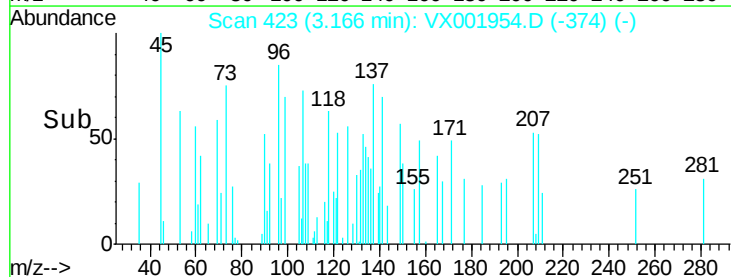
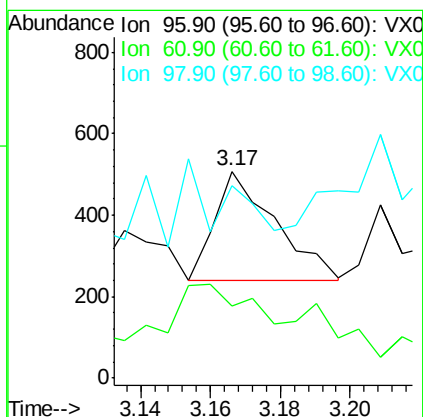
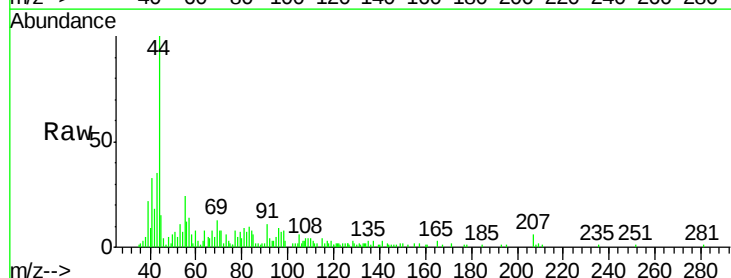
Instrument :
MSVOA_X
ClientSampled :
RO-4-1

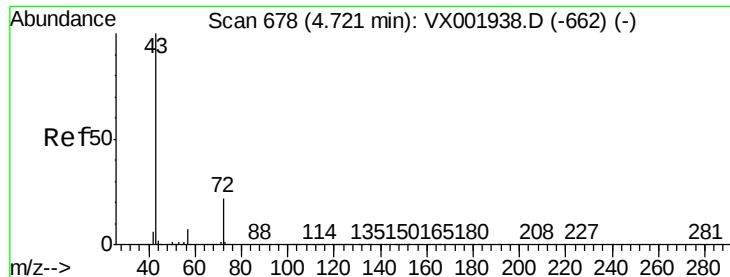
Tgt Ion: 84 Resp: 58227
Ion Ratio Lower Upper
84 100
49 130.9 107.2 160.8
51 41.4 32.4 48.6
86 64.0 50.4 75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX001954.D
Acq: 24 May 2018 21:11

Tgt Ion: 96 Resp: 318
Ion Ratio Lower Upper
96 100
61 28.8 113.3 169.9#
98 4.9 51.7 77.5#





#25

2-Butanone

Concen: 0.95 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.01 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampled :

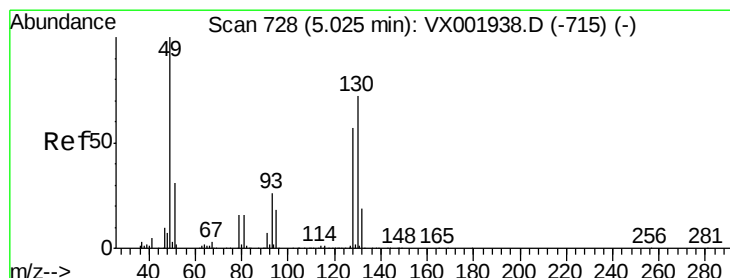
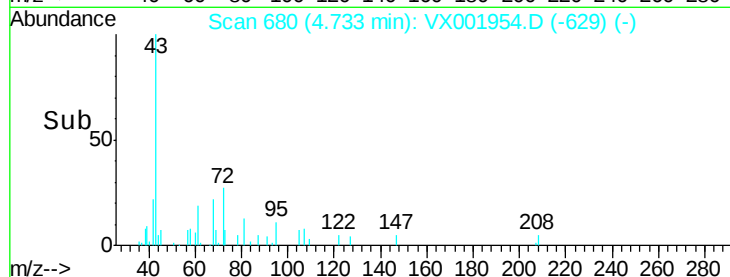
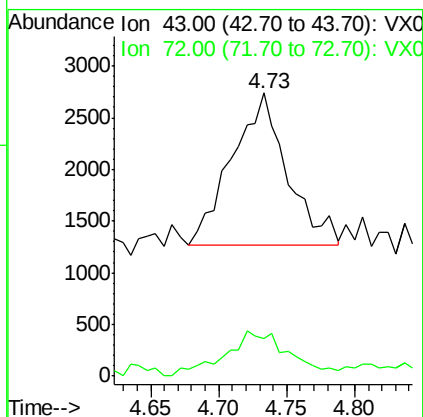
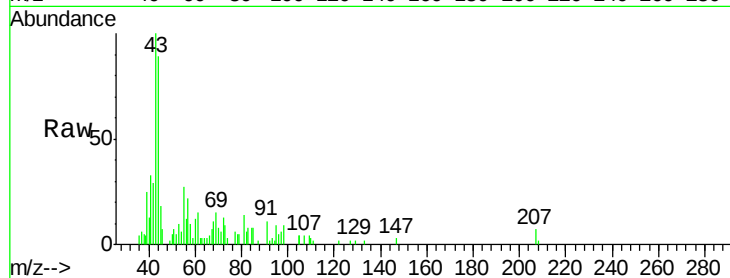
RO-4-1

Tgt Ion: 43 Resp: 4142

Ion Ratio Lower Upper

43 100

72 21.2 17.9 26.9



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

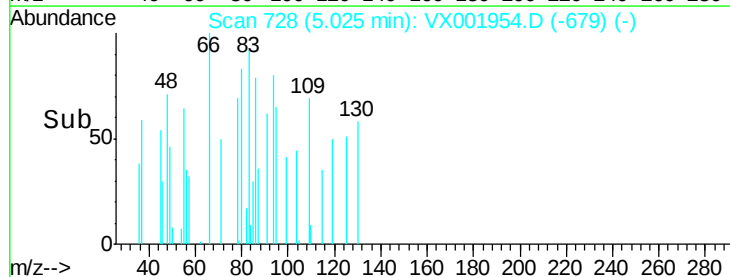
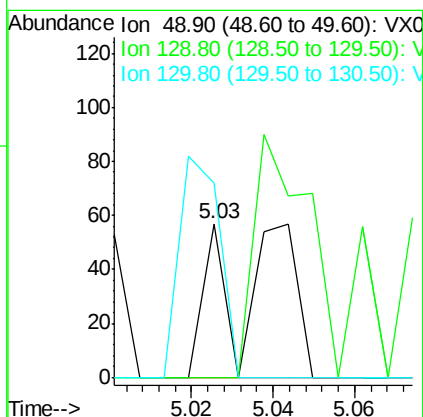
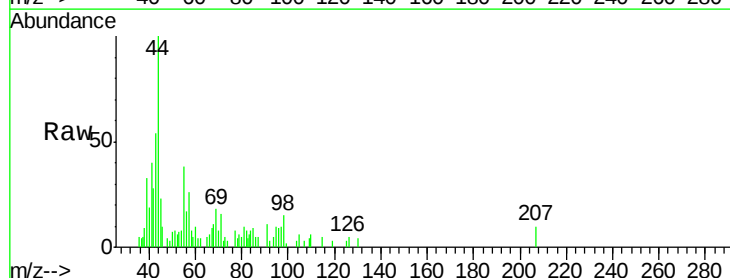
Tgt Ion: 49 Resp: 61

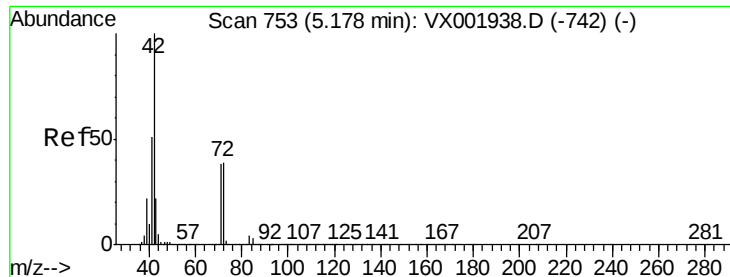
Ion Ratio Lower Upper

49 100

129 93.4 0.0 3.8#

130 91.8 59.4 89.2#





#29

Tetrahydrofuran

Concen: 0.77 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampleId :

RO-4-1

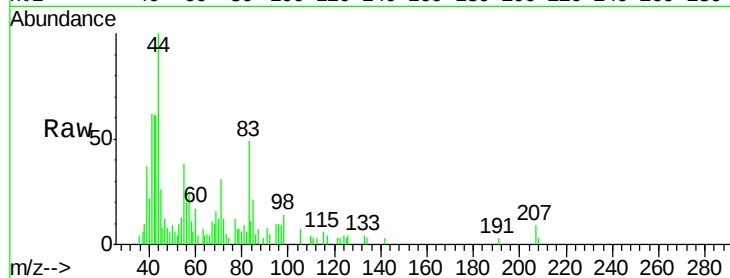
Tgt Ion: 42 Resp: 2188

Ion Ratio Lower Upper

42 100

72 39.8 31.4 47.0

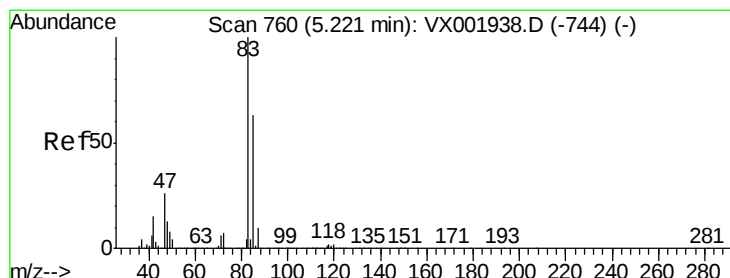
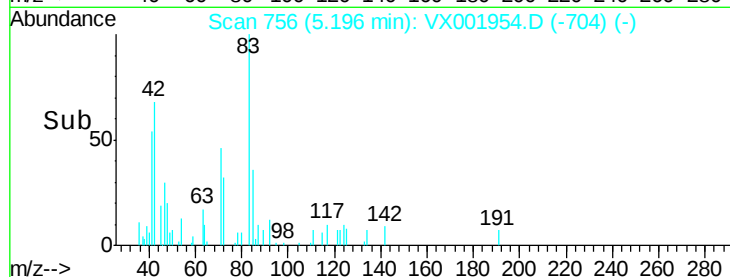
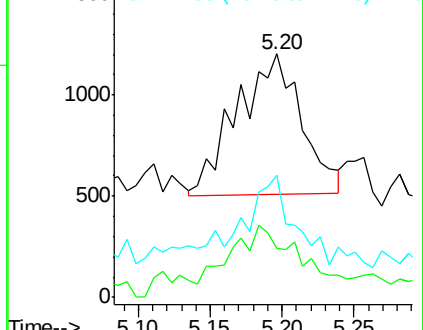
71 57.4 29.5 44.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.63 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX001954.D

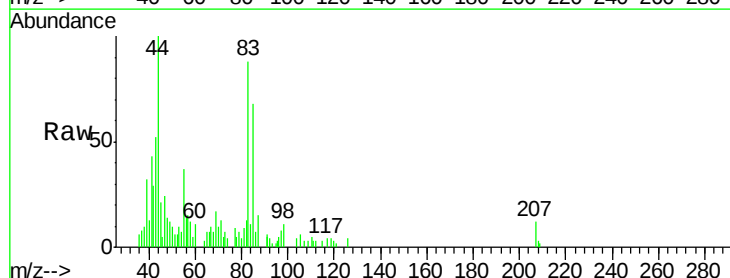
Acq: 24 May 2018 21:11

Tgt Ion: 83 Resp: 5793

Ion Ratio Lower Upper

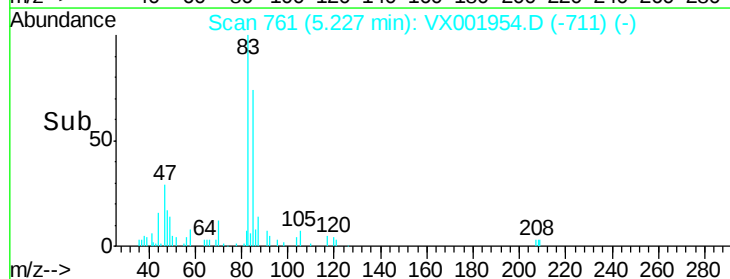
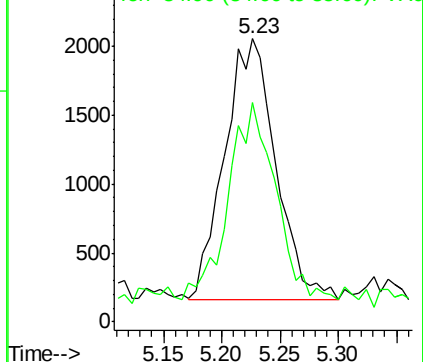
83 100

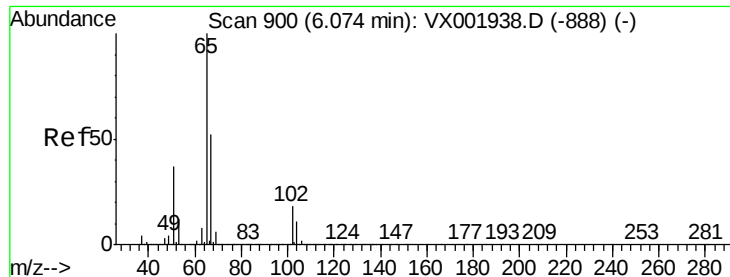
85 75.6 50.9 76.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

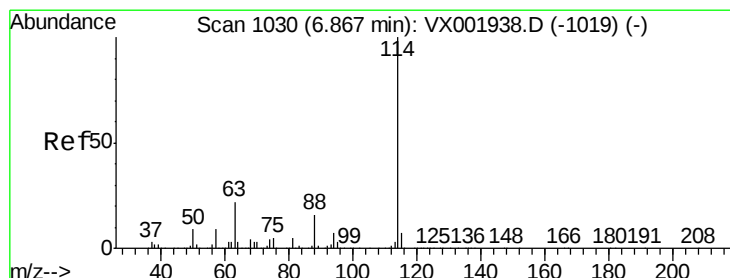
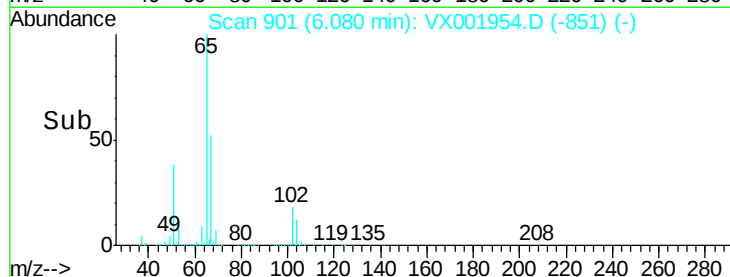
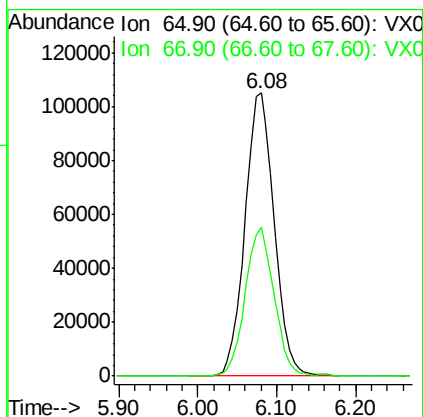
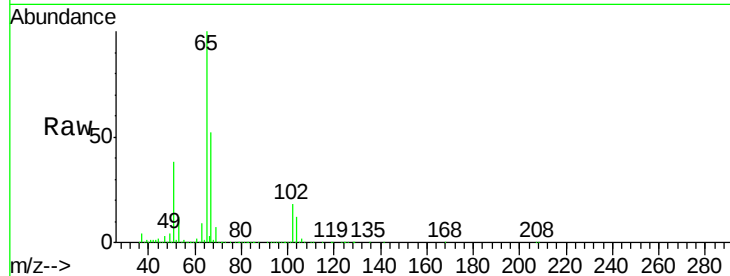




#33
 1,2-Dichloroethane-d4
 Concen: 43.98 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VX001954.D
 Acq: 24 May 2018 21:11

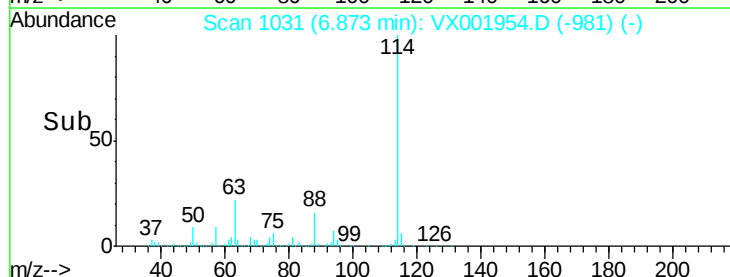
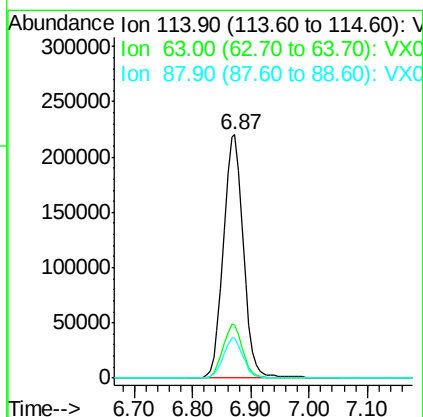
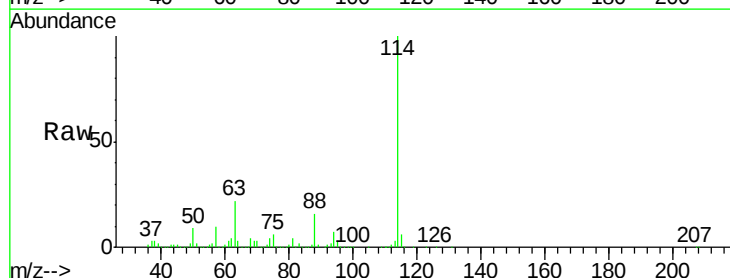
Instrument :
 MSVOA_X
 ClientSampleId :
 RO-4-1

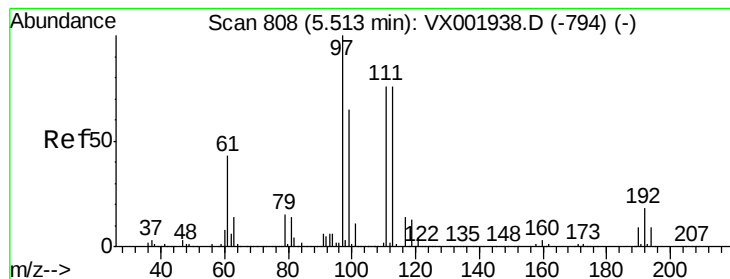
Tgt Ion: 65 Resp: 269894
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX001954.D
 Acq: 24 May 2018 21:11

Tgt Ion: 114 Resp: 526626
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.2
 88 16.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 39.93 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampled :

RO-4-1

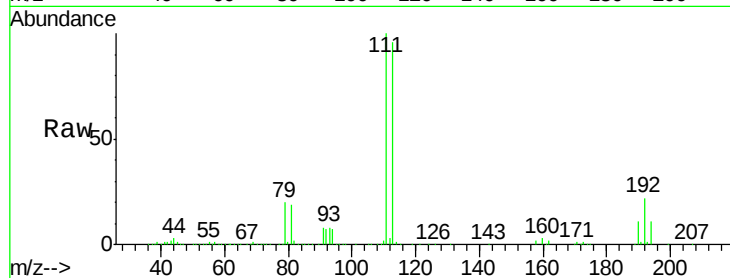
Tgt Ion:113 Resp: 210268

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

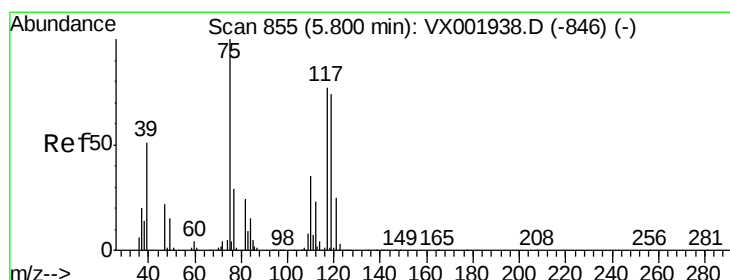
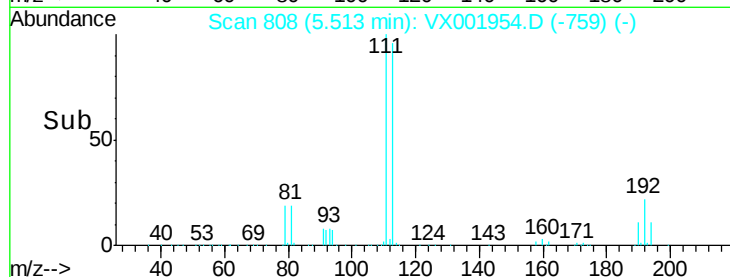
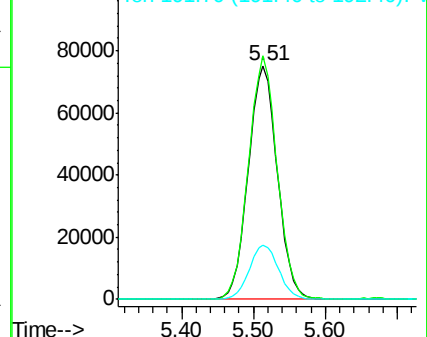
192 23.6 18.9 28.3



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: 3.29 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

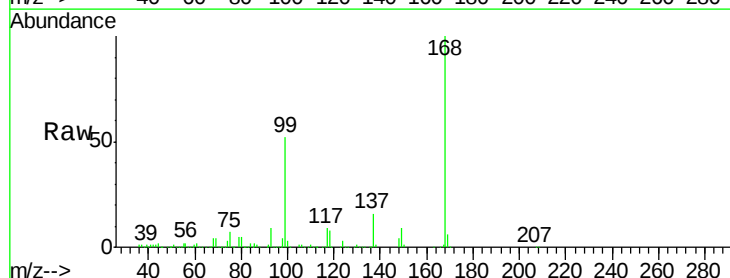
Tgt Ion: 75 Resp: 24126

Ion Ratio Lower Upper

75 100

110 12.8 17.4 52.2#

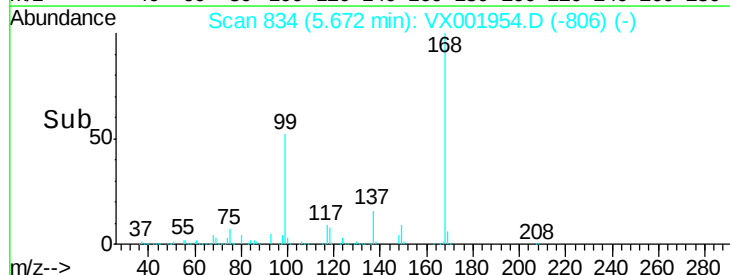
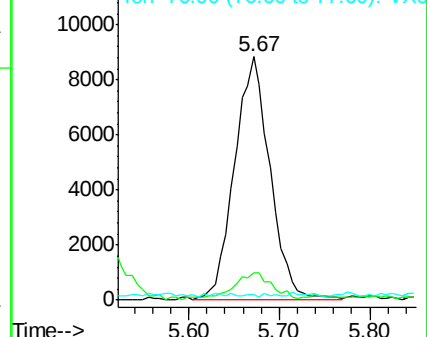
77 0.3 24.4 36.6#

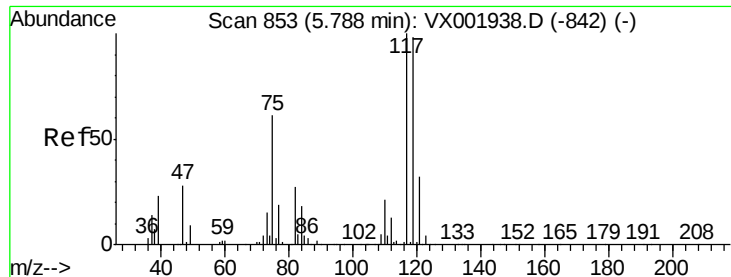


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.72 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampled :

RO-4-1

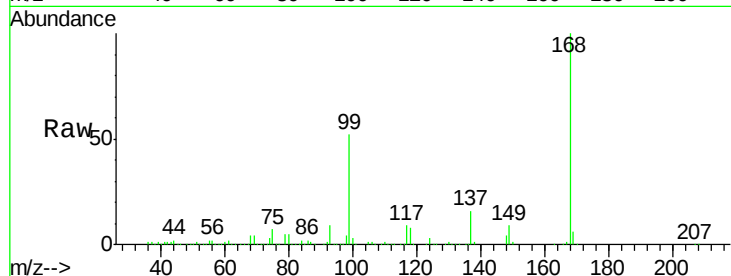
Tgt Ion: 117 Resp: 31809

Ion Ratio Lower Upper

117 100

119 4.2 78.5 117.7#

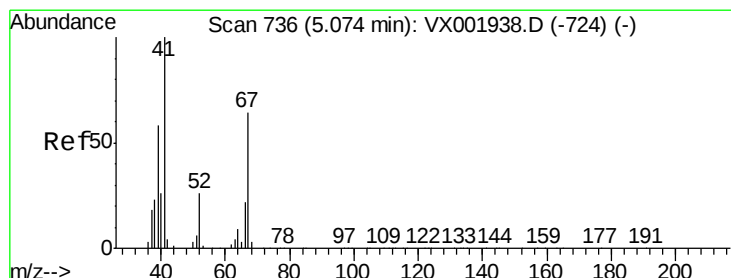
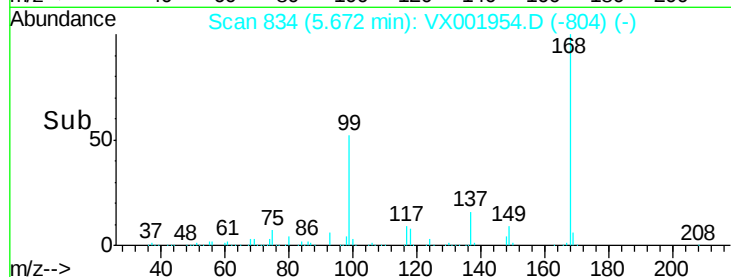
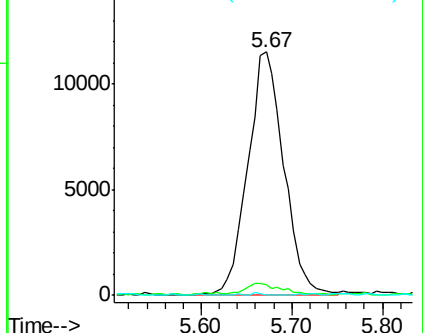
121 0.0 25.5 38.3#



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: 5.12 min Scan# 743

Delta R.T. 0.04 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Tgt Ion: 41 Resp: 445

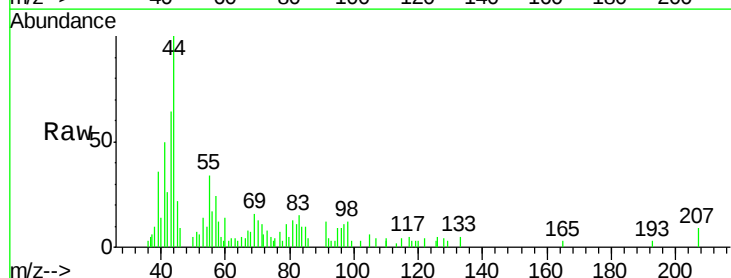
Ion Ratio Lower Upper

41 100

39 60.2 46.0 69.0

67 16.0 50.6 75.8#

52 22.7 21.9 32.9

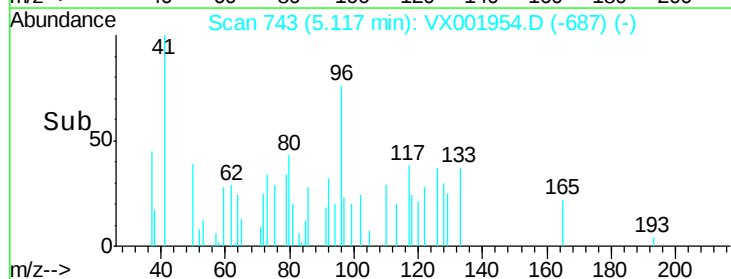
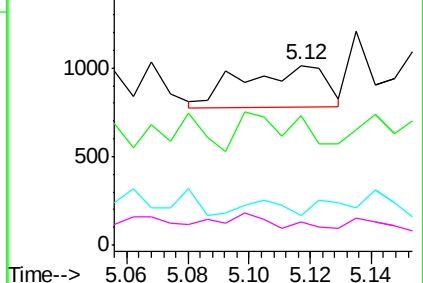


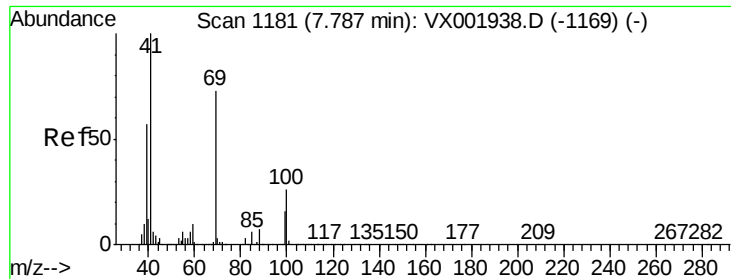
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

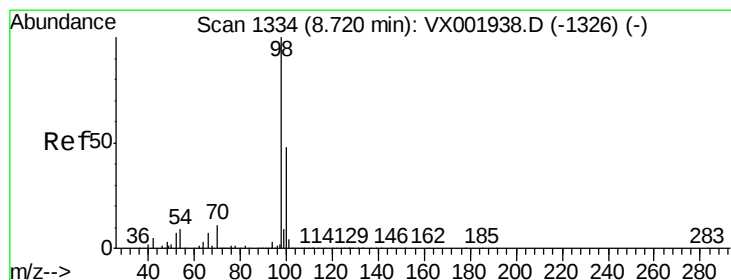
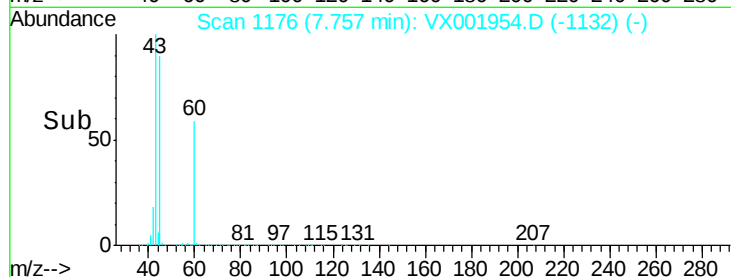
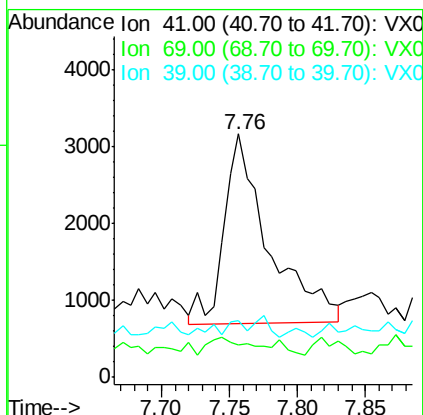
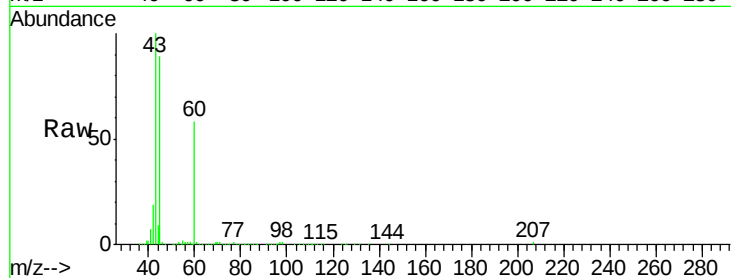




#48
Methyl methacrylate
Concen: 0.70 ug/l
RT: 7.76 min Scan# 1176
Delta R.T. -0.03 min
Lab File: VX001954.D
Acq: 24 May 2018 21:11

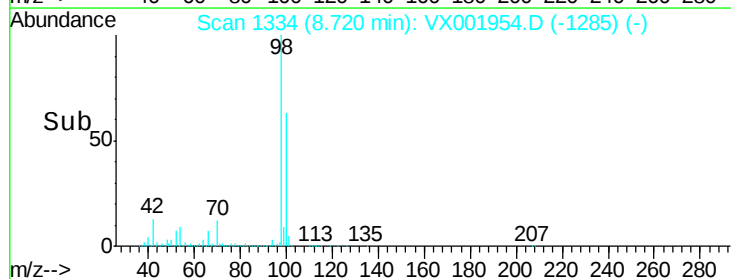
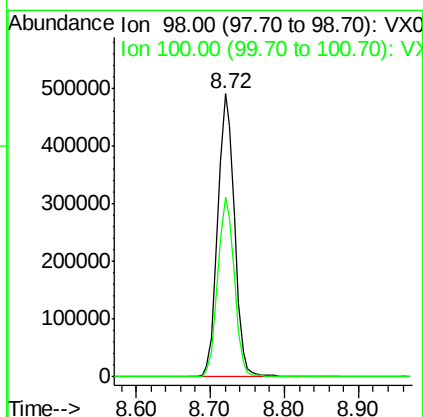
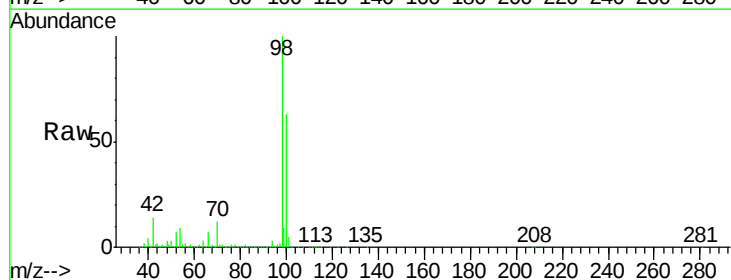
Instrument :
MSVOA_X
ClientSampled :
RO-4-1

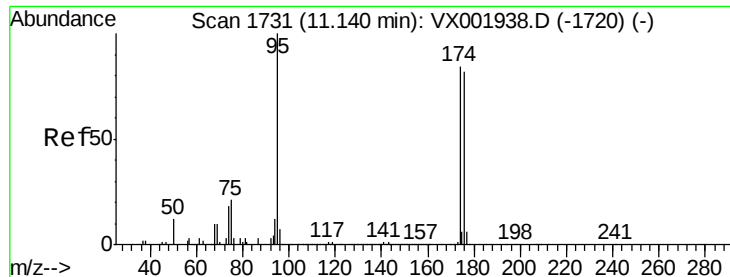
Tgt Ion: 41 Resp: 5649
Ion Ratio Lower Upper
41 100
69 7.3 58.6 87.8#
39 6.9 46.3 69.5#



#50
Toluene-d8
Concen: 39.71 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001954.D
Acq: 24 May 2018 21:11

Tgt Ion: 98 Resp: 757072
Ion Ratio Lower Upper
98 100
100 63.1 51.5 77.3





#62

4-Bromofluorobenzene

Concen: 37.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampleId :

RO-4-1

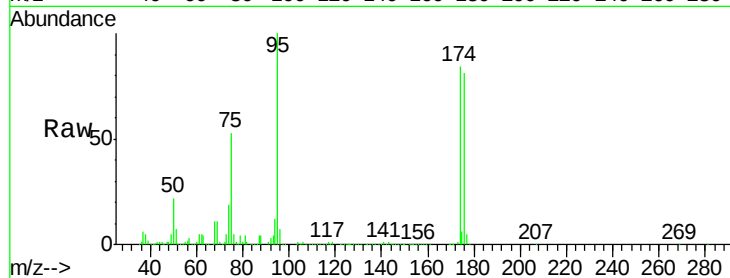
Tgt Ion: 95 Resp: 280052

Ion Ratio Lower Upper

95 100

174 90.3 0.0 178.8

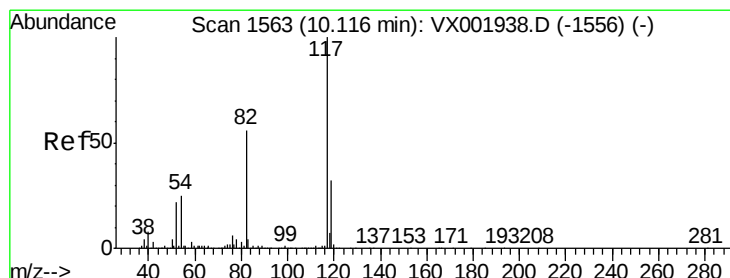
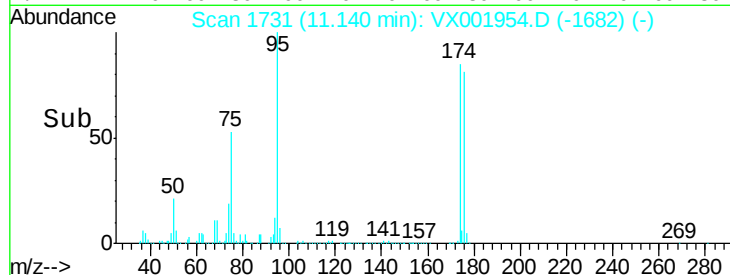
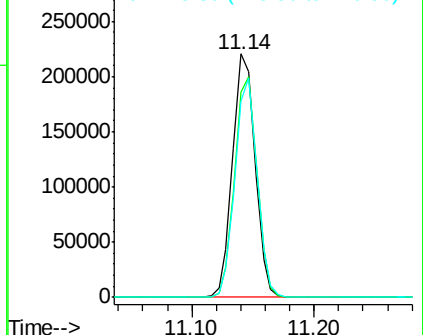
176 88.6 0.0 175.6



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# 1564

Delta R.T. 0.01 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

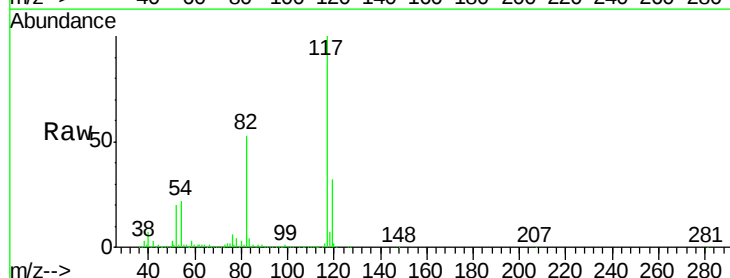
Tgt Ion: 117 Resp: 486611

Ion Ratio Lower Upper

117 100

82 53.3 44.8 67.2

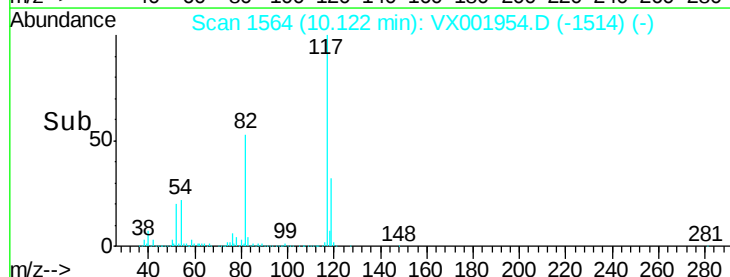
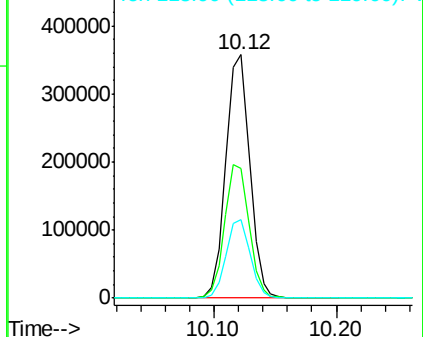
119 32.1 25.5 38.3

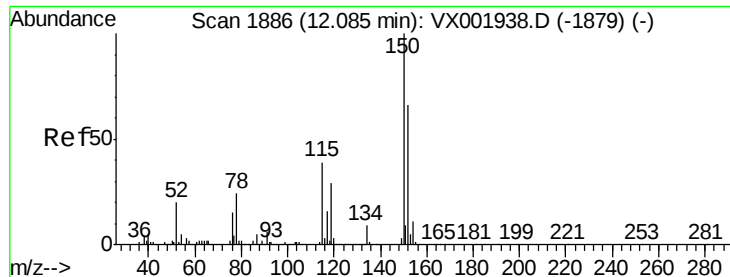


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampled :

RO-4-1

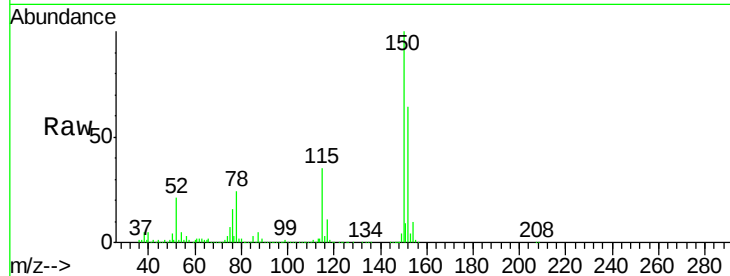
Tgt Ion:152 Resp: 259970

Ion Ratio Lower Upper

152 100

115 56.5 42.3 126.8

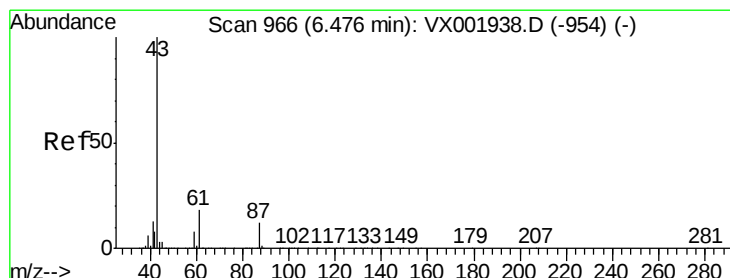
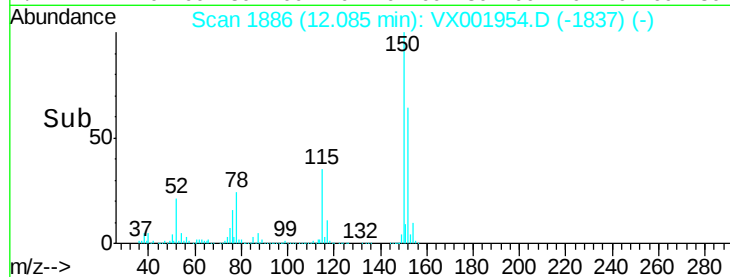
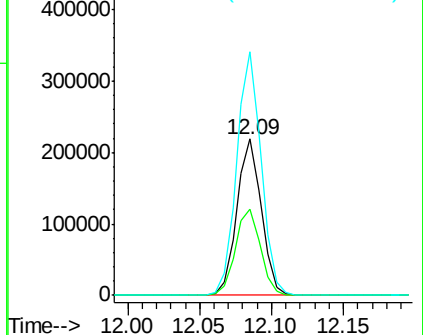
150 155.6 0.0 351.0



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-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Tgt Ion: 43 Resp: 515

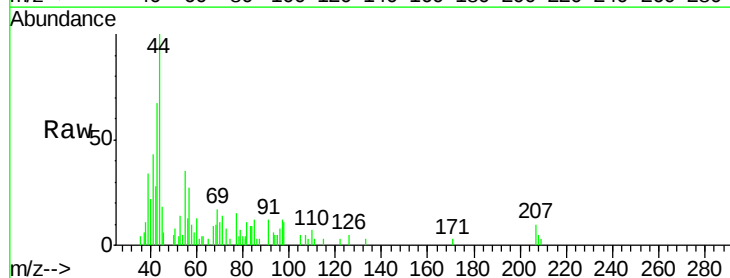
Ion Ratio Lower Upper

43 100

70 46.4 0.1 0.1#

55 0.0 0.1 0.1#

61 29.9 14.5 21.7#

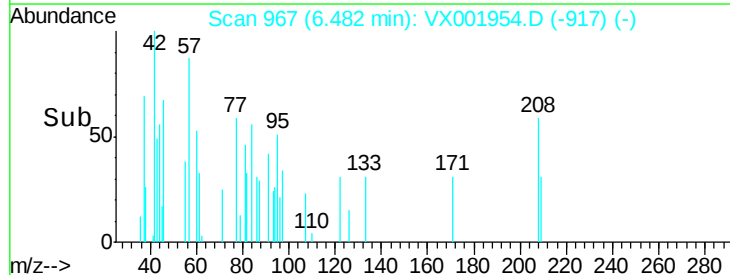
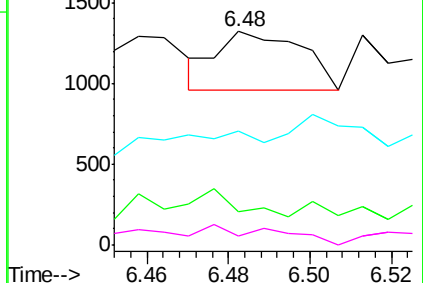


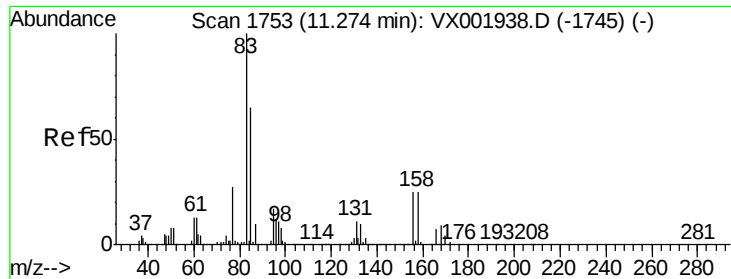
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.24 min Scan# 1748

Delta R.T. -0.03 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampleId :

RO-4-1

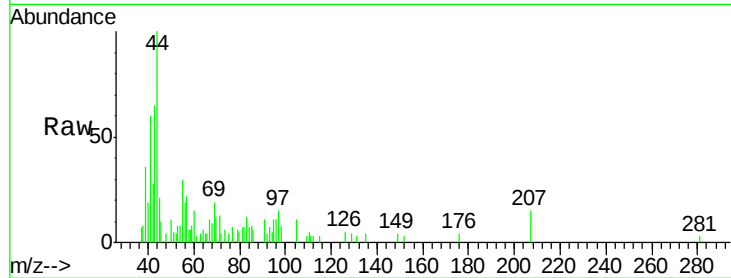
Tgt Ion: 83 Resp: 142

Ion Ratio Lower Upper

83 100

131 13.4 5.7 17.0

85 40.1 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

400

300

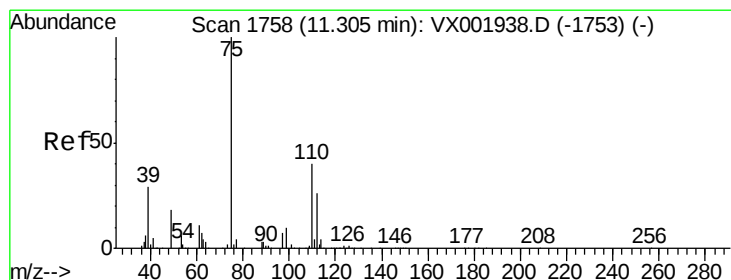
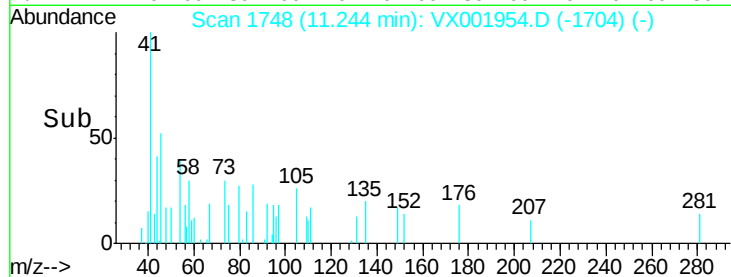
200

100

0

11.22 11.24 11.26

Time-->



#76

1,2,3-Trichloropropane

Concen: 23.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001954.D

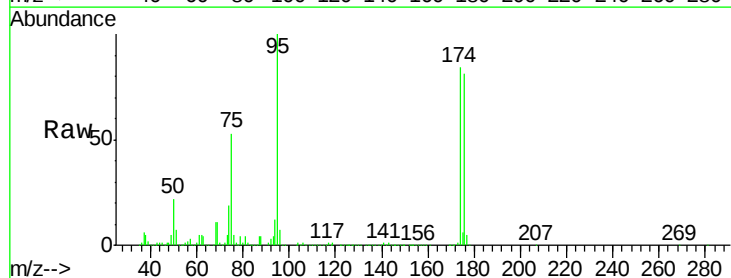
Acq: 24 May 2018 21:11

Tgt Ion: 75 Resp: 145194

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

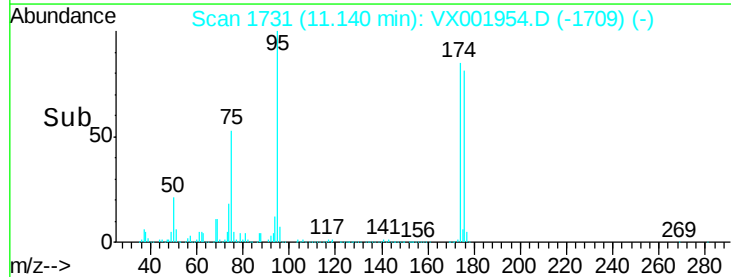
100000

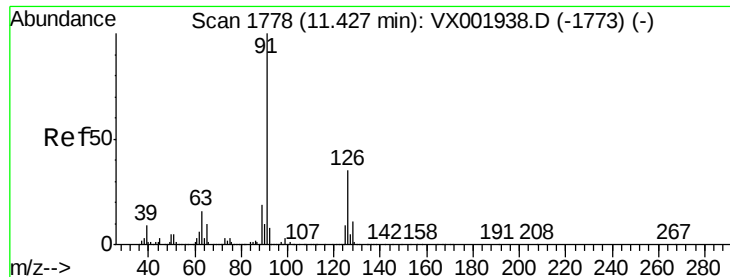
50000

0

11.10 11.14 11.20

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.68 min Scan# 1820

Delta R.T. 0.26 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

Instrument :

MSVOA_X

ClientSampled :

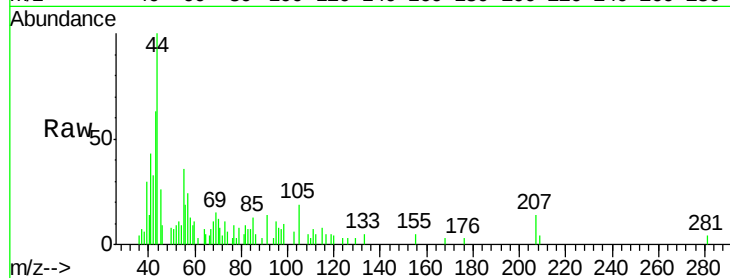
RO-4-1

Tgt Ion: 91 Resp: 219

Ion Ratio Lower Upper

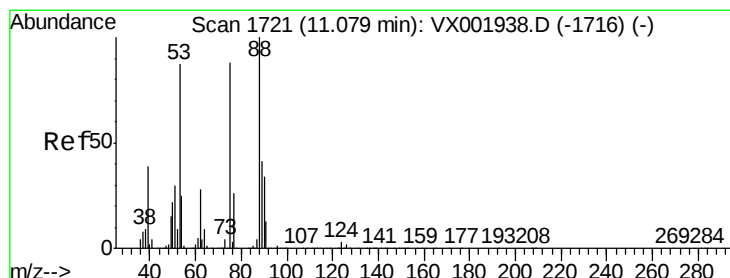
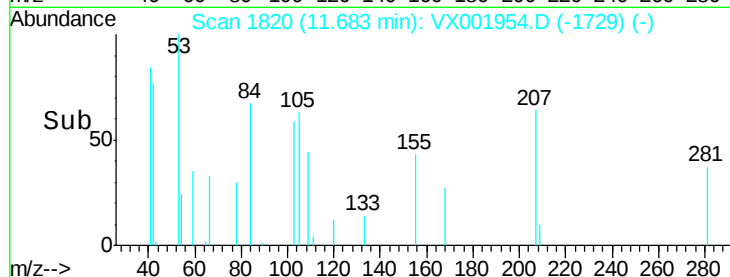
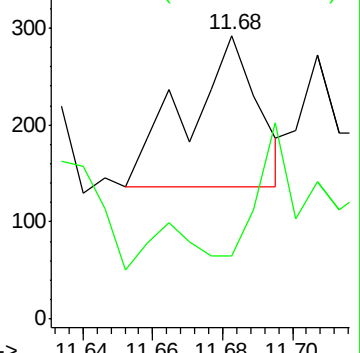
91 100

126 37.4 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 55.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001954.D

Acq: 24 May 2018 21:11

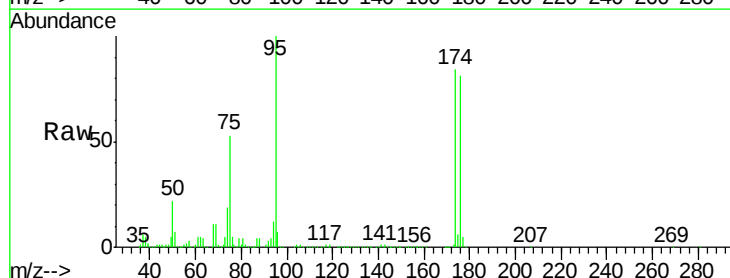
Tgt Ion: 75 Resp: 145194

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

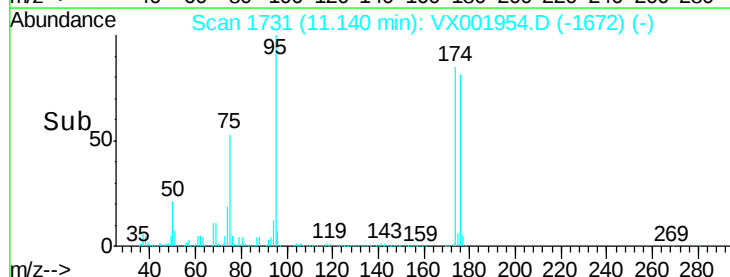
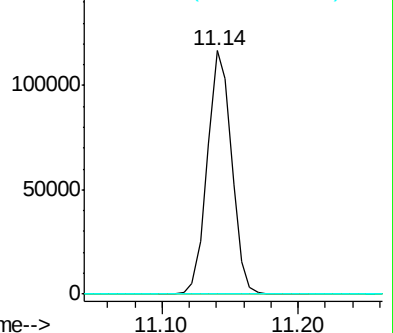
89 0.0 39.4 59.2#

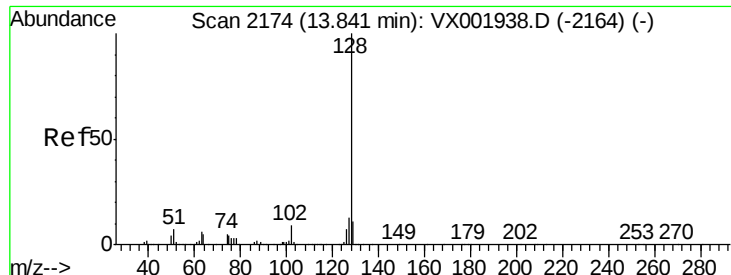


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

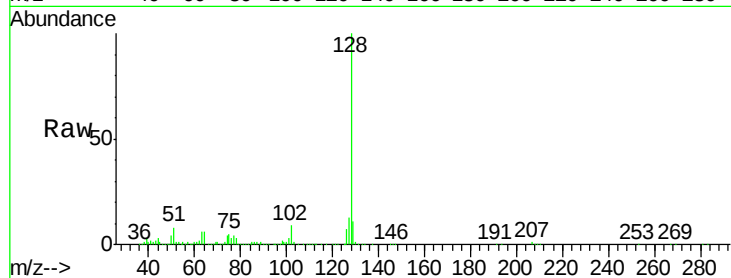




#95
Naphthalene
Concen: 2.90 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX001954.D
Acq: 24 May 2018 21:11

Instrument :
MSVOA_X
ClientSampleId :
RO-4-1

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.4	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

