

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002075.D
 Acq On : 27 May 2018 18:11
 Operator : JC/MD
 Sample : J2679-26
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:59:00 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	320345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	442996	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	401658	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	225931	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	207254	36.19	ug/l	0.00
Spiked Amount			Recovery	=	72.38%	
35) Dibromofluoromethane	5.51	113	160462	36.22	ug/l	0.00
Spiked Amount			Recovery	=	72.44%	
50) Toluene-d8	8.72	98	632491	39.44	ug/l	0.00
Spiked Amount			Recovery	=	78.88%	
62) 4-Bromofluorobenzene	11.14	95	225819	35.99	ug/l	0.00
Spiked Amount			Recovery	=	71.98%	

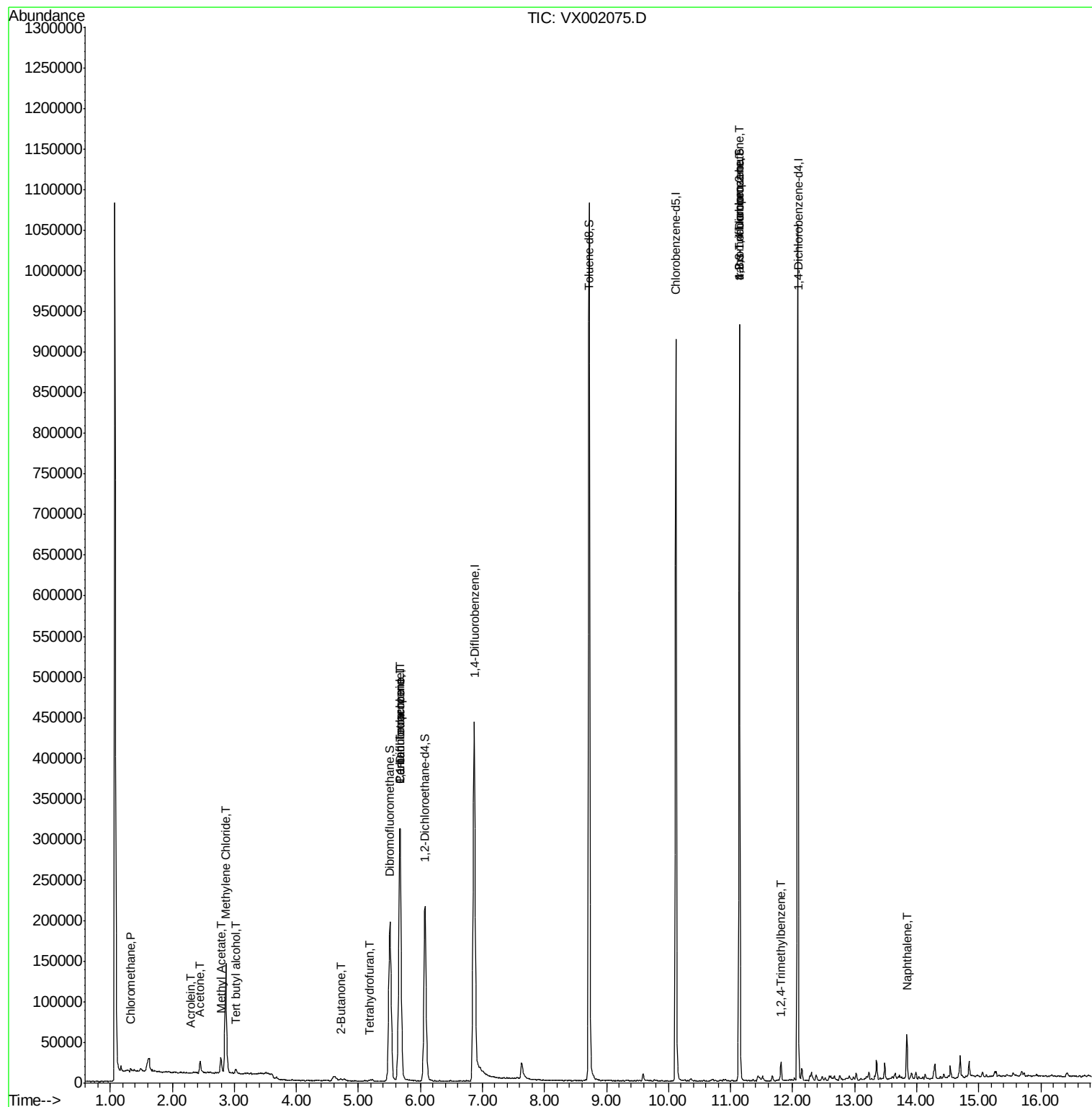
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	128	Below Cal	#	41
3) Chloromethane	1.33	50	3450	0.70	ug/l	91
5) Bromomethane	1.65	94	695	Below Cal		87
11) Tert butyl alcohol	3.03	59	3065	2.73	ug/l	# 87
13) Acrolein	2.29	56	156	0.32	ug/l	# 14
16) Acetone	2.45	43	16145	7.31	ug/l	96
18) Methyl Acetate	2.78	43	23109	3.28	ug/l	100
20) Methylene Chloride	2.86	84	62307	15.12	ug/l	100
21) trans-1,2-Dichloroethene	3.16	96	340	Below Cal	#	44
25) 2-Butanone	4.71	43	2664	0.66	ug/l	96
28) Bromochloromethane	5.02	49	19	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	982	0.37	ug/l	# 92
36) 1,1-Dichloropropene	5.67	75	21849	3.55	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	29473	4.10	ug/l	# 15
41) Methacrylonitrile	5.09	41	81	Below Cal	#	1
74) N-amyl acetate	6.48	43	193	Below Cal	#	81
75) 1,1,2,2-Tetrachloroethane	11.29	83	22	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.14	75	119662	22.05	ug/l	# 33
79) 2-Chlorotoluene	11.44	91	961	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	119662	53.00	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	9512	0.56	ug/l	97
95) Naphthalene	13.84	128	33266	1.63	ug/l	98

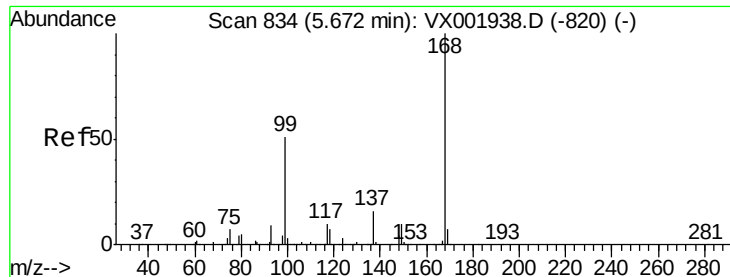
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

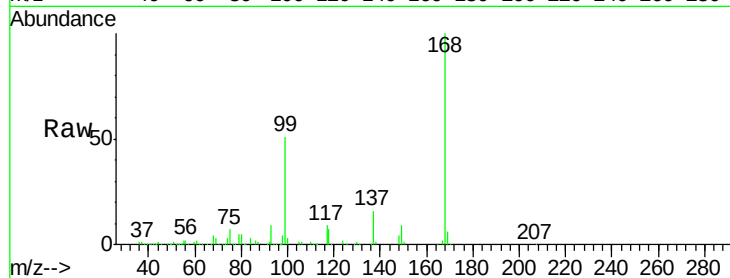
ClientSampleId :

Tot Ion:168 Resp: 320345

Ion Ratio Lower Upper

168 100

99 50.6 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

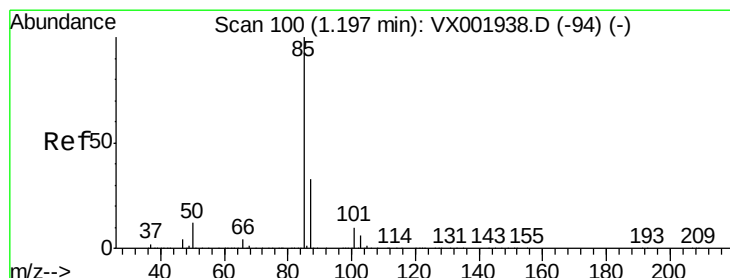
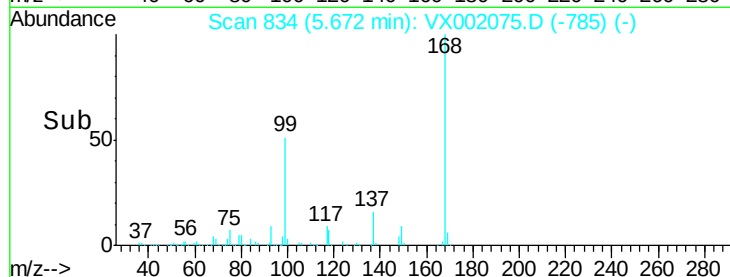
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002075.D

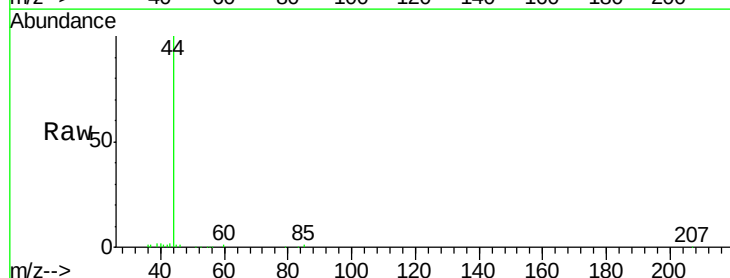
Acq: 27 May 2018 18:11

Tgt Ion: 85 Resp: 128

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

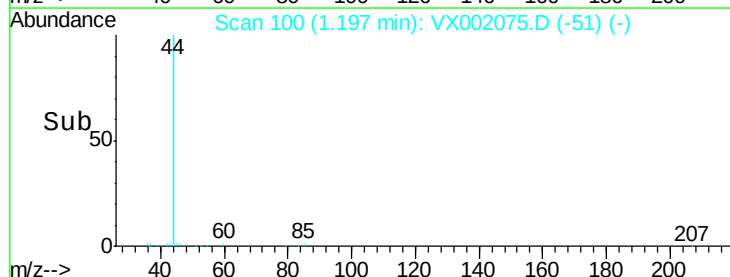
150

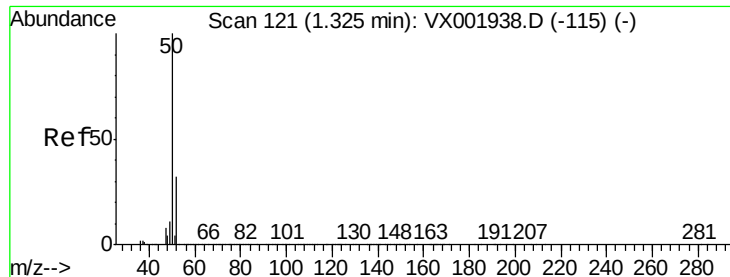
100

50

0

Time-->





#3

Chloromethane

Concen: 0.70 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

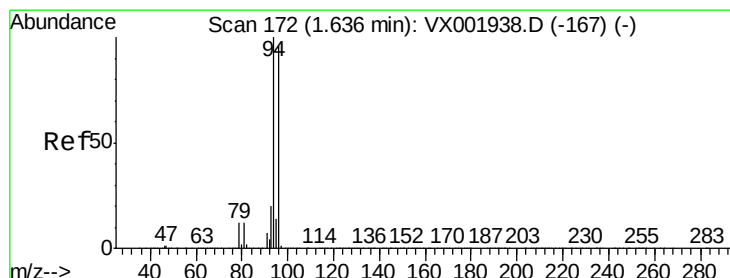
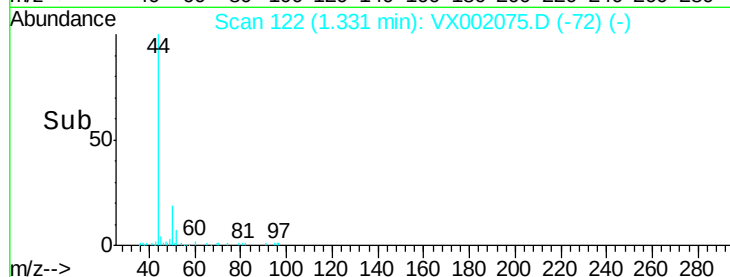
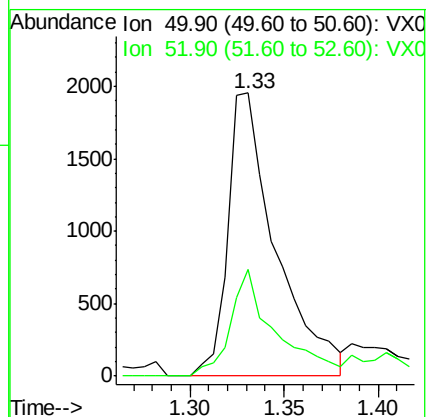
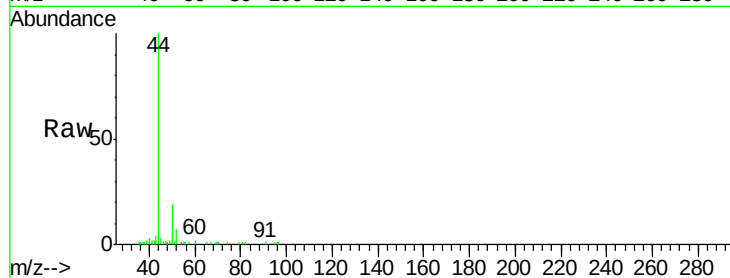
ClientSampleId :

Tot Ion: 50 Resp: 3450

Ion Ratio Lower Upper

50 100

52 37.7 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002075.D

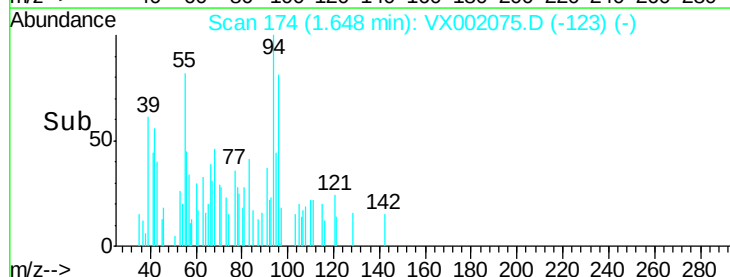
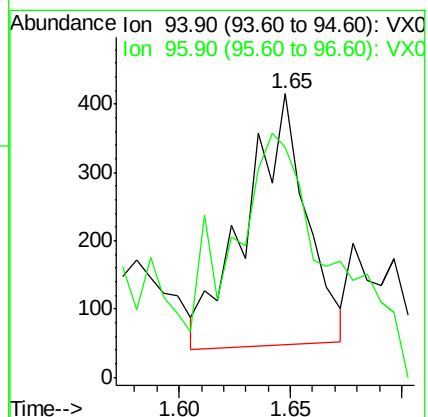
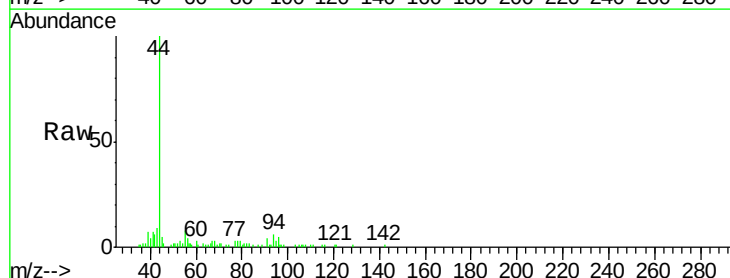
Acq: 27 May 2018 18:11

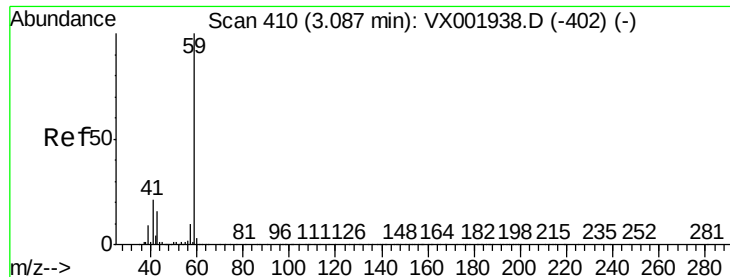
Tgt Ion: 94 Resp: 695

Ion Ratio Lower Upper

94 100

96 82.3 75.9 113.9



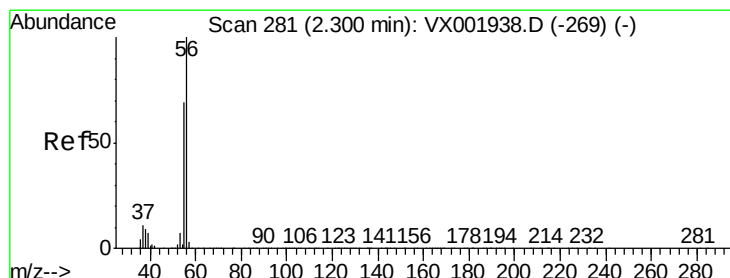
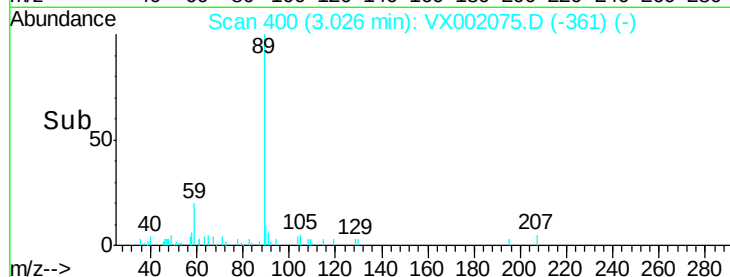
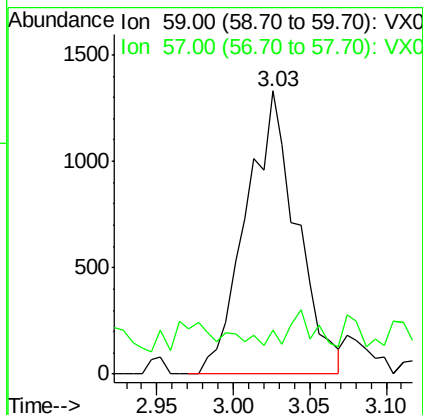
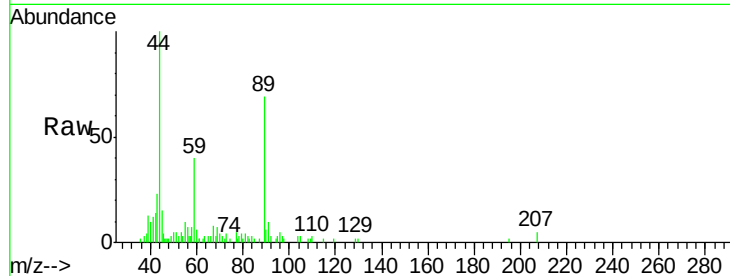


#11

Tert butyl alcohol
 Concen: 2.73 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.06 min
 Lab File: VX002075.D
 Acq: 27 May 2018 18:11

Instrument :
 MSVOA_X
 ClientSampleId :

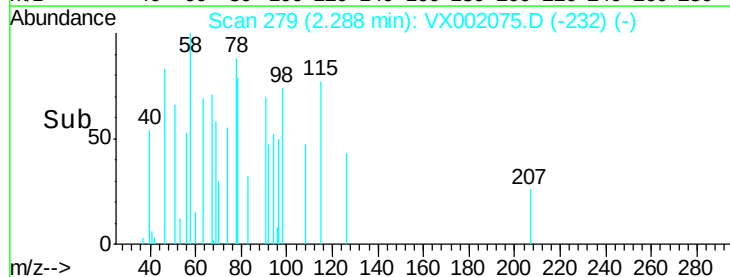
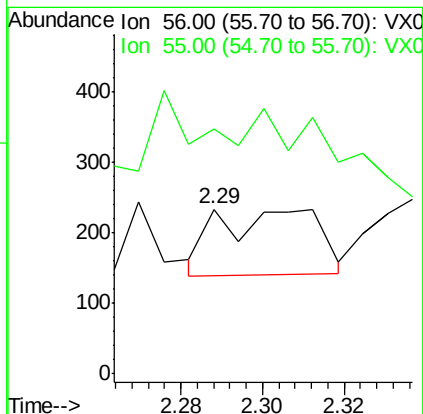
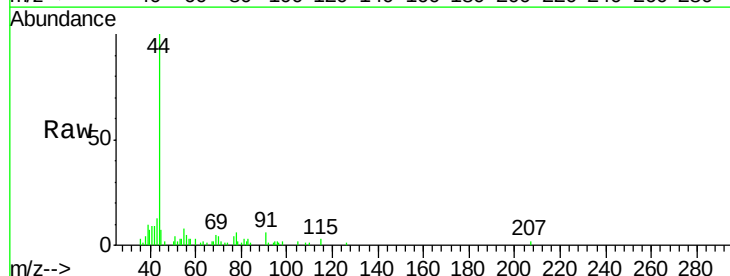
Tot Ion: 59 Resp: 3065
 Ion Ratio Lower Upper
 59 100
 57 6.2 8.9 13.3#

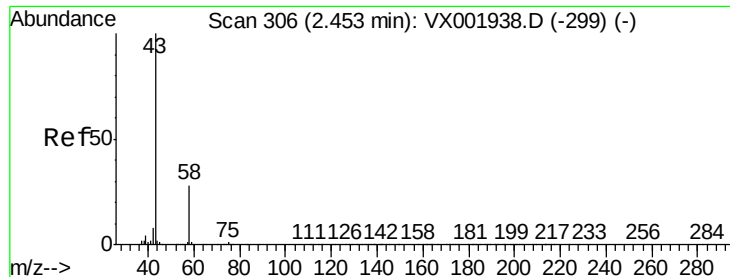


#13

Acrolein
 Concen: 0.32 ug/l
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX002075.D
 Acq: 27 May 2018 18:11

Tgt Ion: 56 Resp: 156
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.8 85.2#





#16

Acetone

Concen: 7.31 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

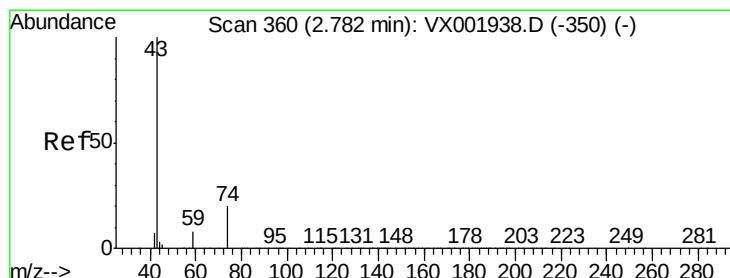
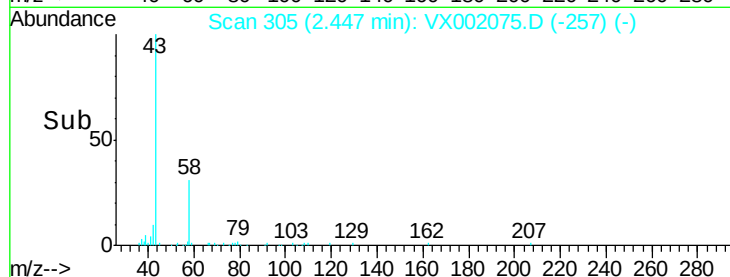
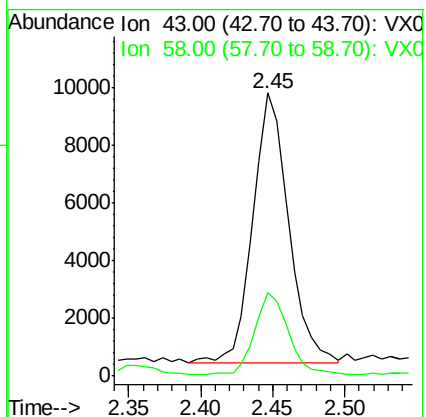
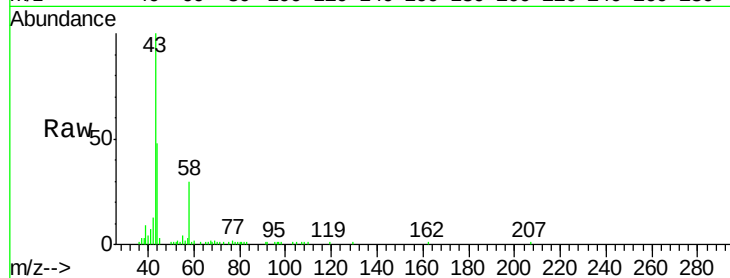
ClientSampleId :

Tot Ion: 43 Resp: 16145

Ion Ratio Lower Upper

43 100

58 30.2 22.3 33.5



#18

Methyl Acetate

Concen: 3.28 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002075.D

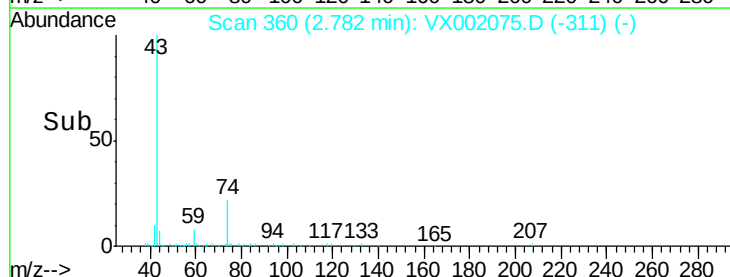
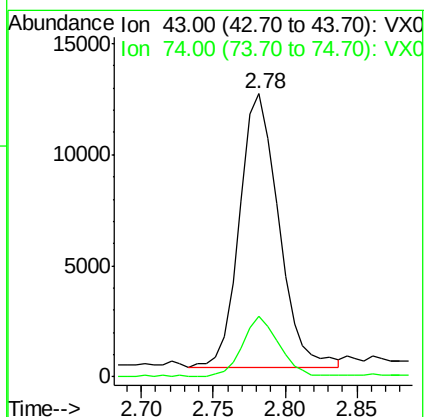
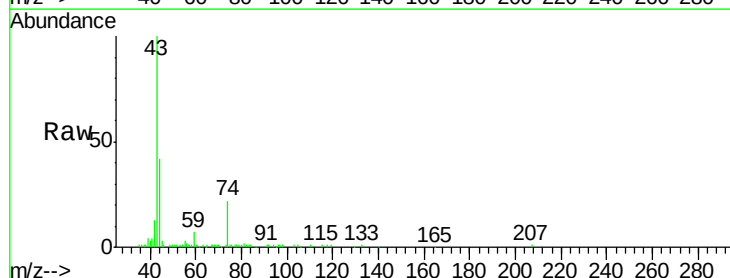
Acq: 27 May 2018 18:11

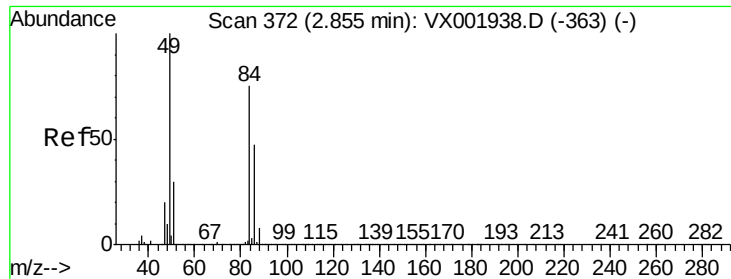
Tgt Ion: 43 Resp: 23109

Ion Ratio Lower Upper

43 100

74 20.8 16.8 25.2

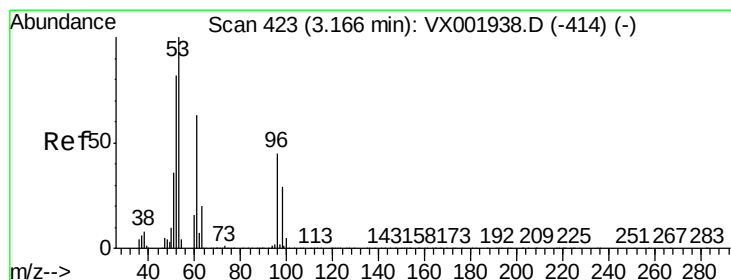
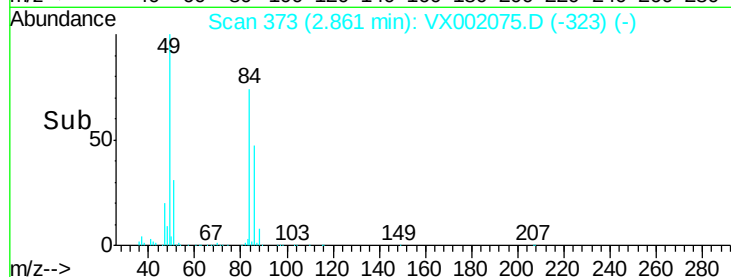
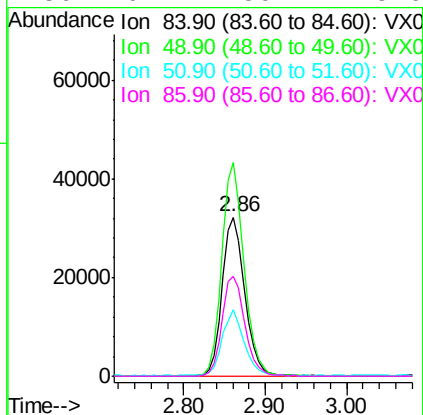
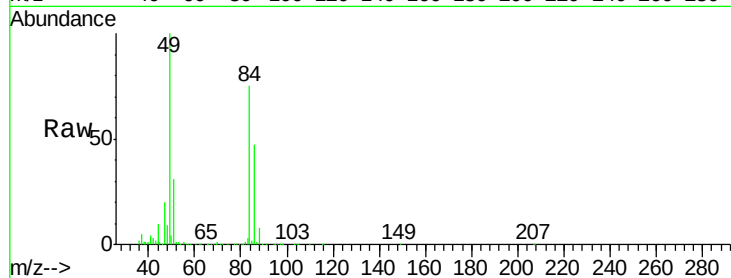




#20
Methylene Chloride
Concen: 15.12 ua/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

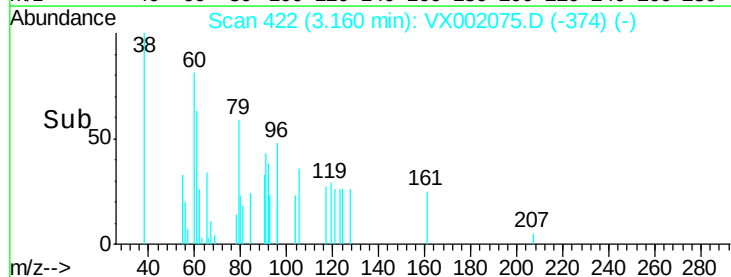
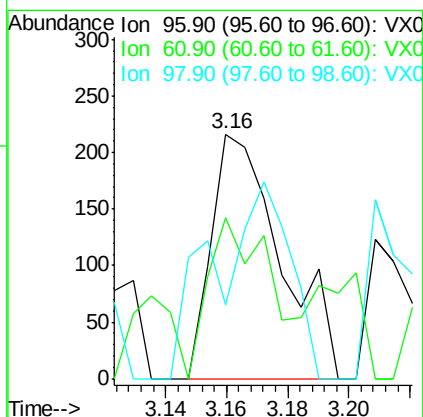
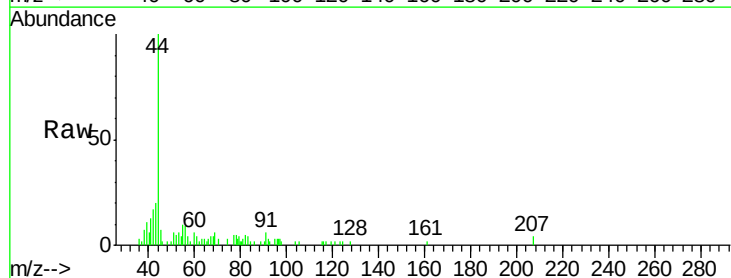
Instrument :
MSVOA_X
ClientSampleId :

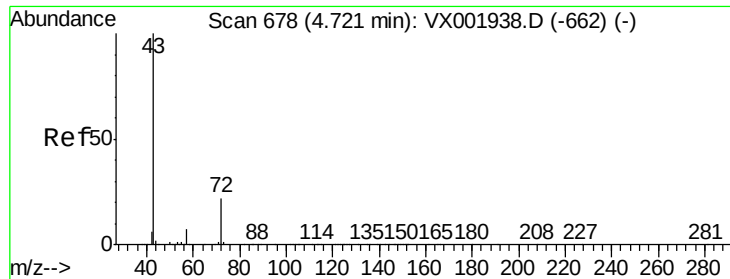
Tot Ion:	84	Resp:	62307
Ion	Ratio	Lower	Upper
84	100		
49	134.2	107.2	160.8
51	41.4	32.4	48.6
86	62.7	50.4	75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.16 min Scan# 422
Delta R.T. -0.01 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

Tgt Ion:	96	Resp:	340
Ion	Ratio	Lower	Upper
96	100		
61	65.7	113.3	169.9#
98	30.1	51.7	77.5#





#25

2-Butanone

Concen: 0.66 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

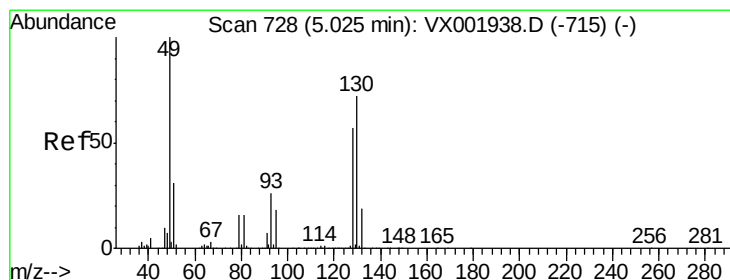
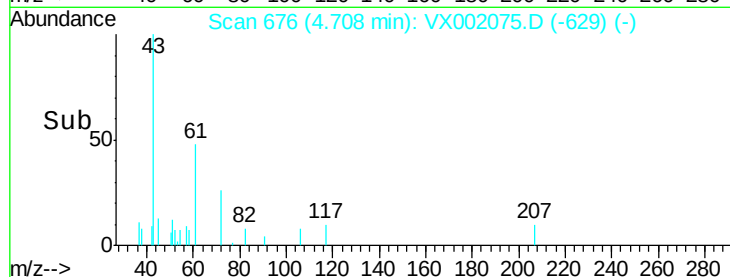
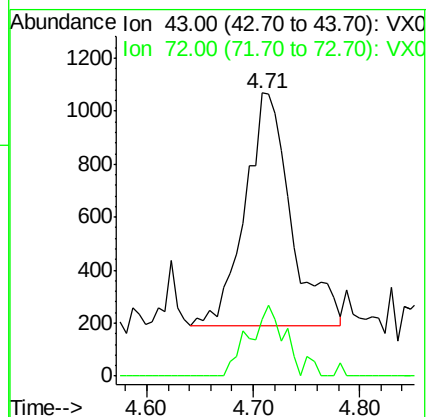
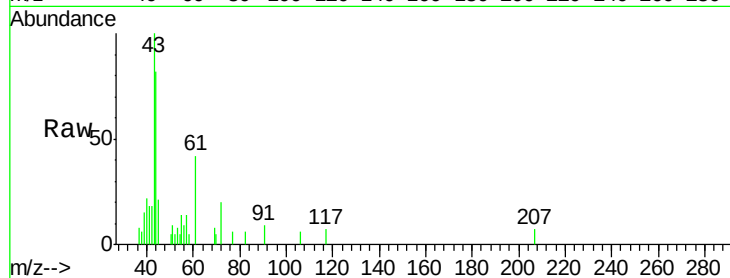
ClientSampled :

Tot Ion: 43 Resp: 2664

Ion Ratio Lower Upper

43 100

72 24.4 17.9 26.9



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

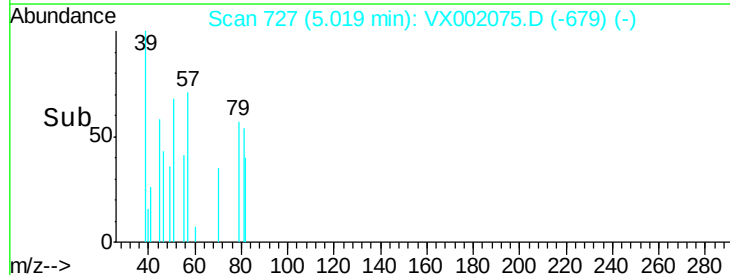
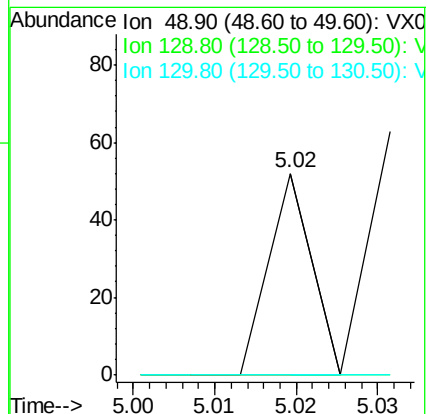
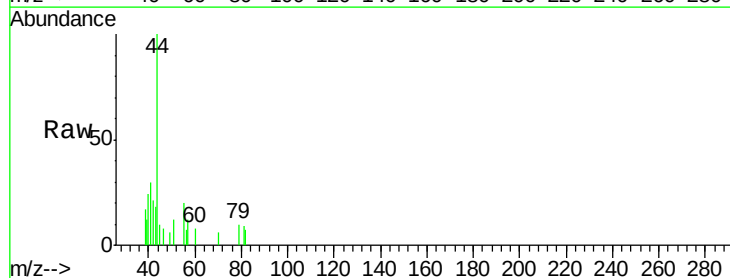
Tgt Ion: 49 Resp: 19

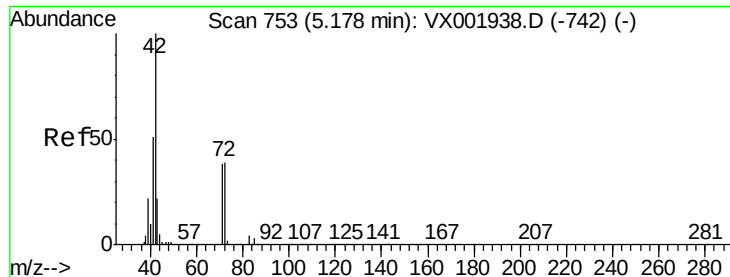
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 59.4 89.2#





#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX002075.D

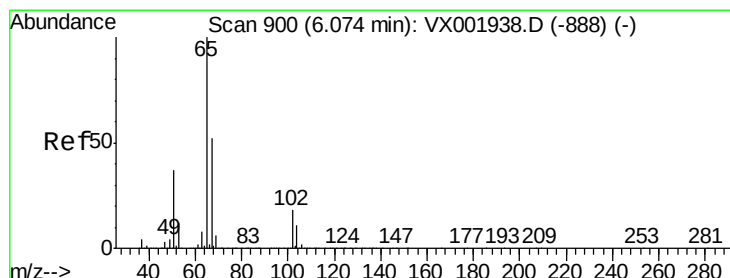
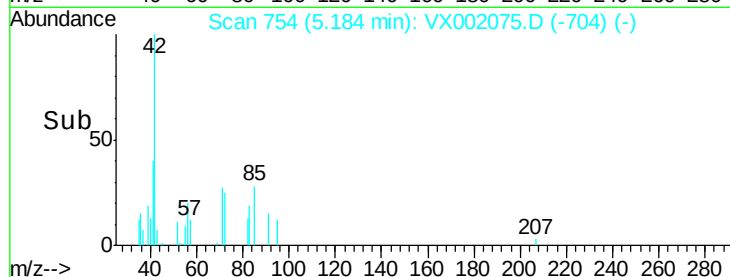
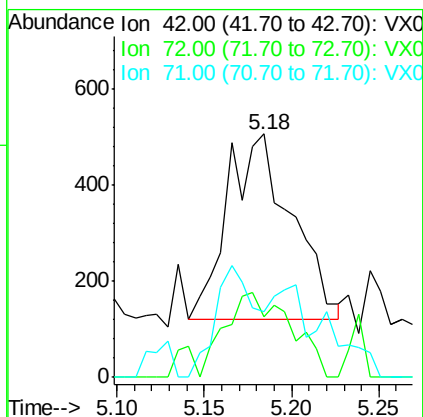
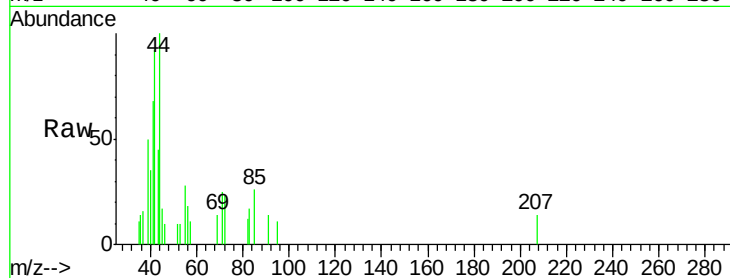
Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	42	Resp:	982
Ion	Ratio	Lower	Upper
42	100		
72	47.3	31.4	47.0#
71	38.0	29.5	44.3



#33

1,2-Dichloroethane-d4

Concen: 36.19 ug/l

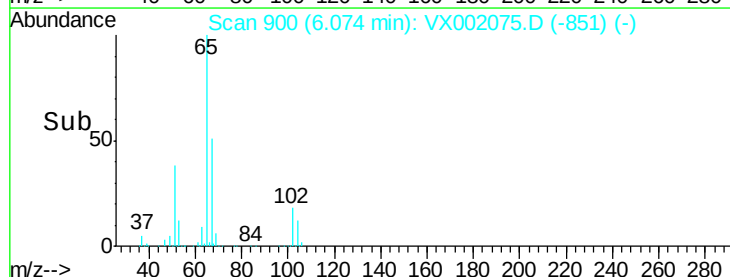
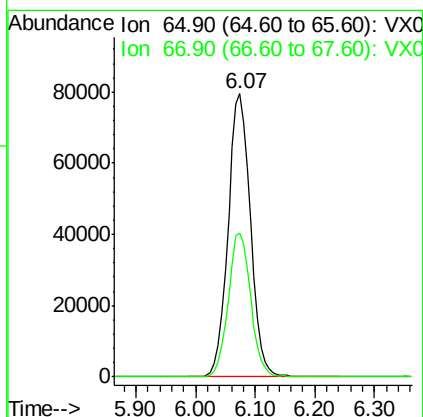
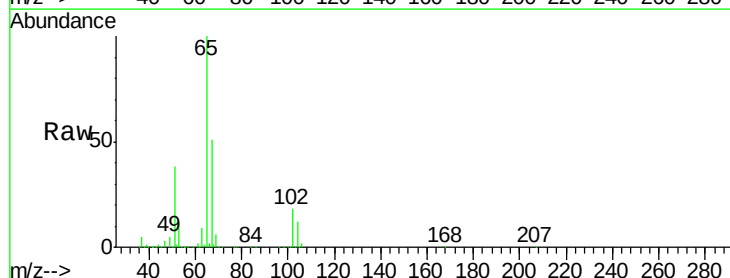
RT: 6.07 min Scan# 900

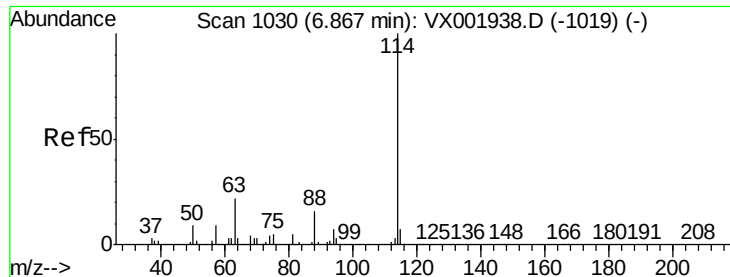
Delta R.T. -0.00 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

Tgt Ion:	65	Resp:	207254
Ion	Ratio	Lower	Upper
65	100		
67	50.8	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: VX002075.D

Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

ClientSampleId :

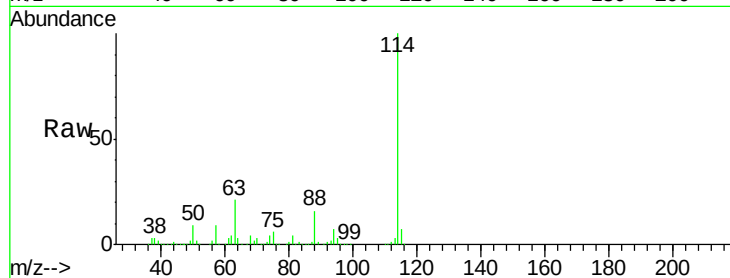
Tot Ion:114 Resp: 442996

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

88 15.6 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

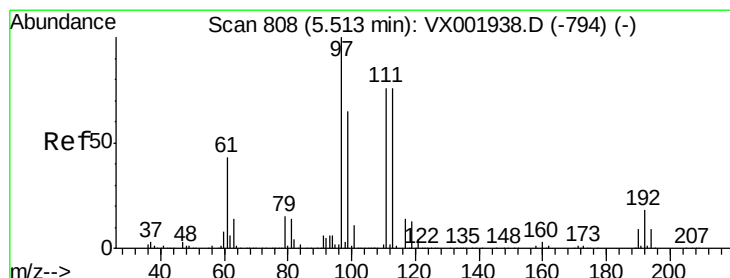
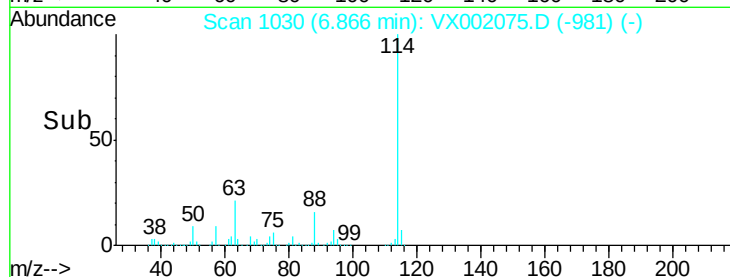
50000

0

6.87

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 36.22 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

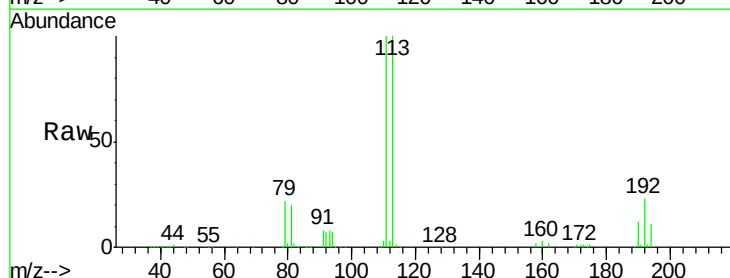
Tgt Ion:113 Resp: 160462

Ion Ratio Lower Upper

113 100

111 101.9 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

80000

60000

40000

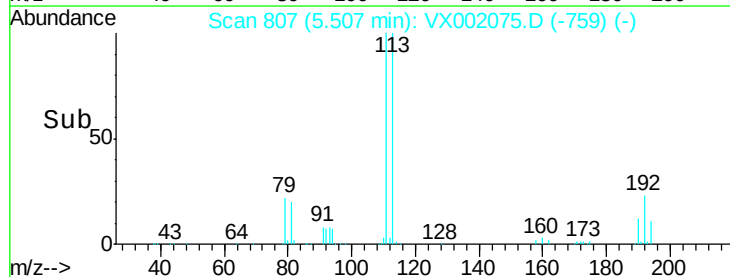
20000

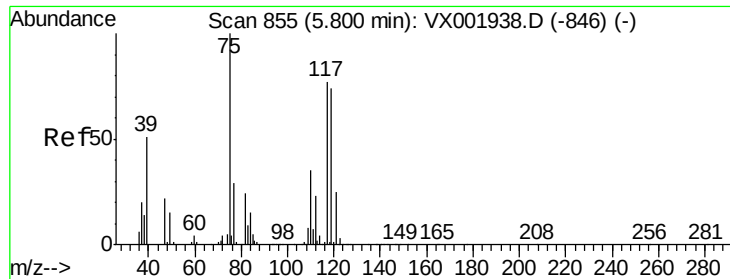
0

5.51

5.40 5.50 5.60 5.70

Time-->

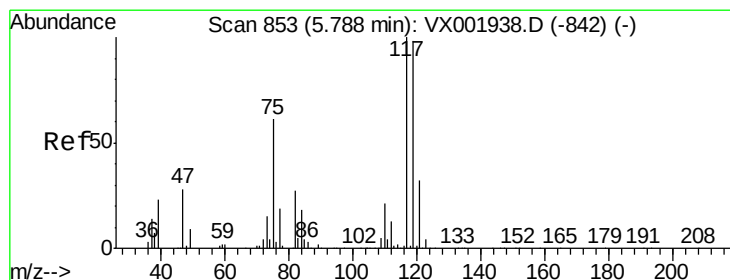
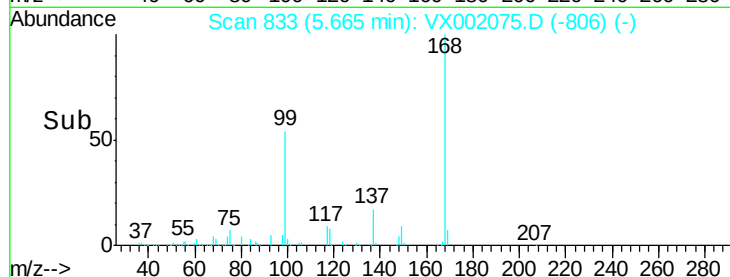
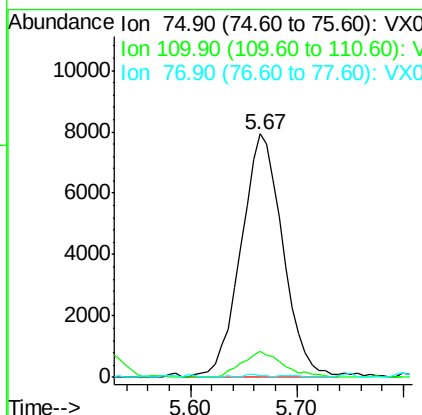
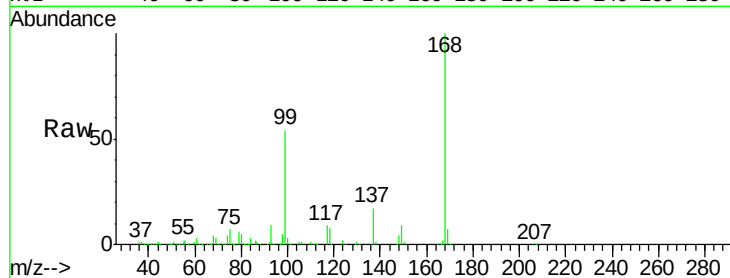




#36
 1,1-Dichloropropene
 Concen: 3.55 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002075.D
 Acq: 27 May 2018 18:11

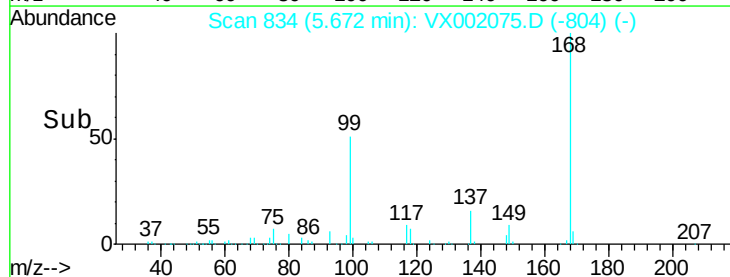
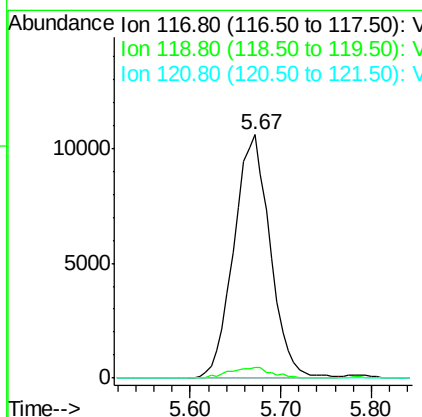
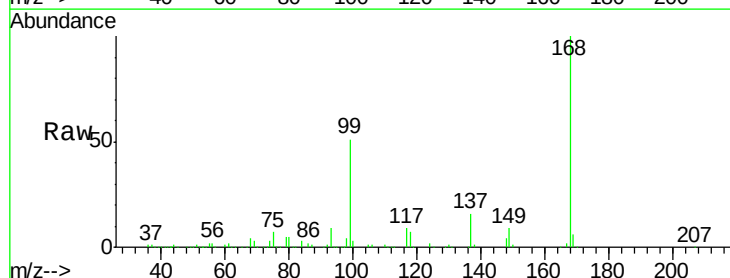
Instrument :
 MSVOA_X
 ClientSampled :

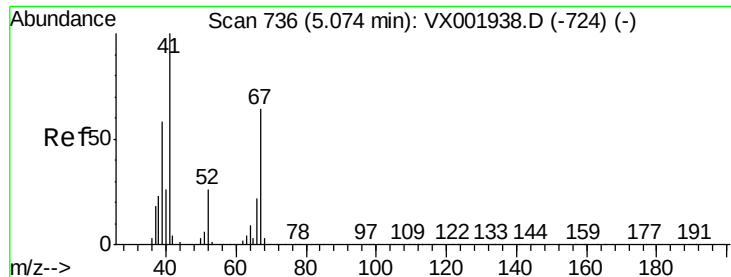
Tot Ion	75	110	77	Resp	Lower	Upper
21849	100	10.6	0.5		17.4	52.2#
					24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.10 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002075.D
 Acq: 27 May 2018 18:11

Tgt Ion	117	119	121	Resp	Lower	Upper
29473	100	4.5	0.0		78.5	117.7#
					25.5	38.3#

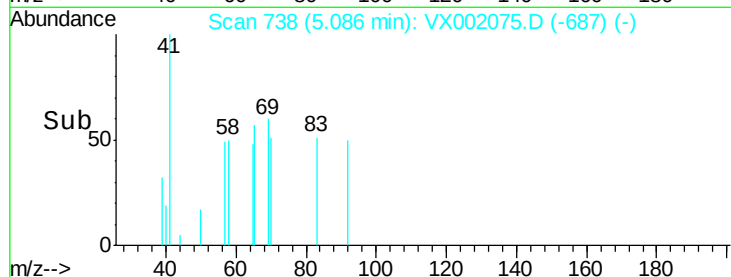
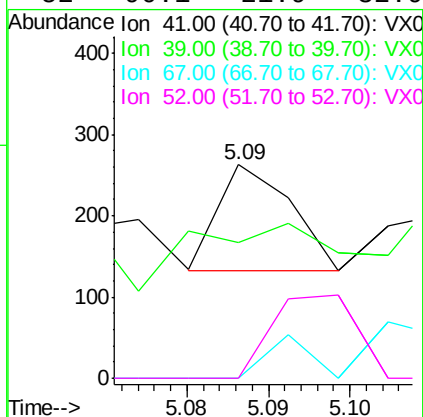
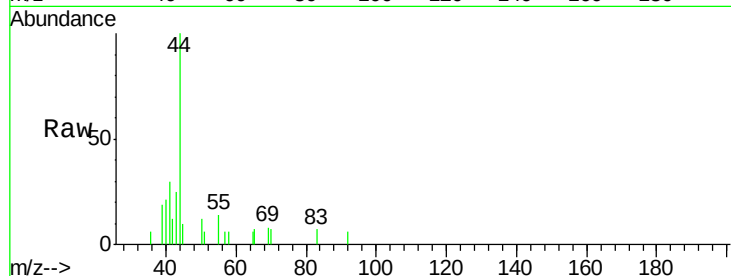




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.09 min Scan# 738
Delta R.T. 0.01 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

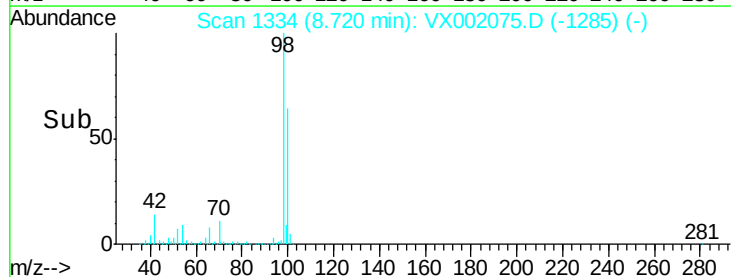
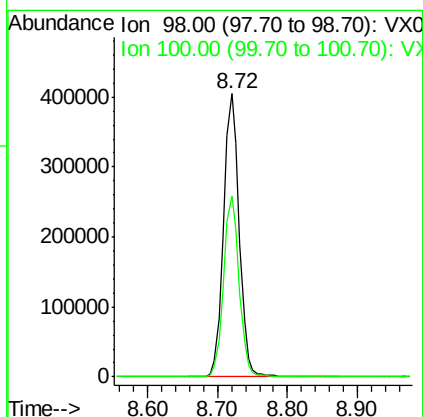
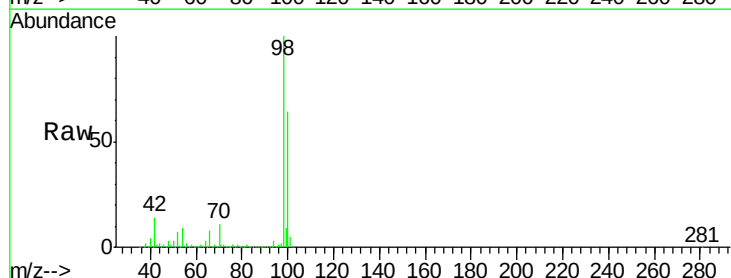
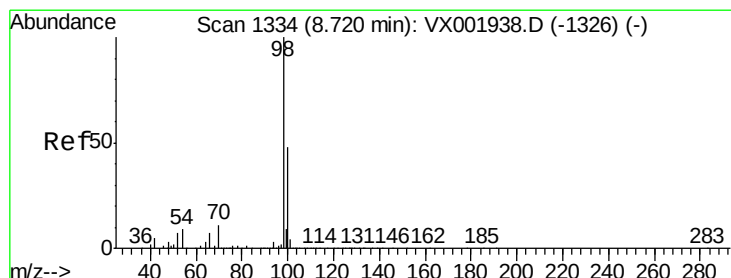
Instrument :
MSVOA_X
ClientSampled :

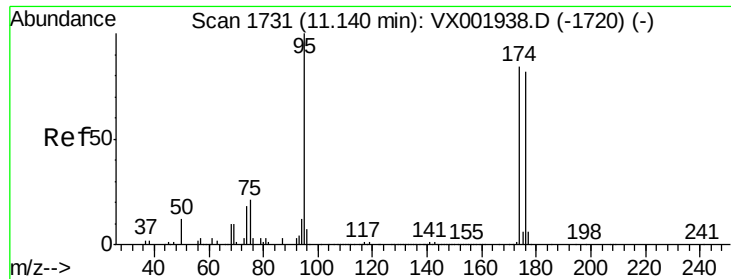
Tot Ion:	41	Resp:	81
Ion	Ratio	Lower	Upper
41	100		
39	139.5	46.0	69.0#
67	0.0	50.6	75.8#
52	90.1	21.9	32.9#



#50
Toluene-d8
Concen: 39.44 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

Tgt Ion:	98	Resp:	632491
Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.5	77.3

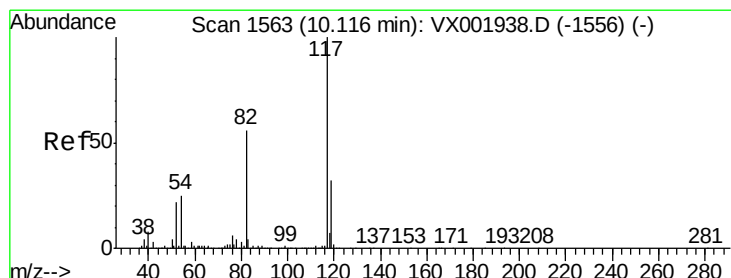
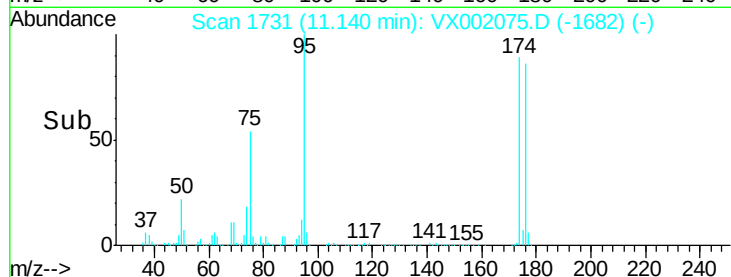
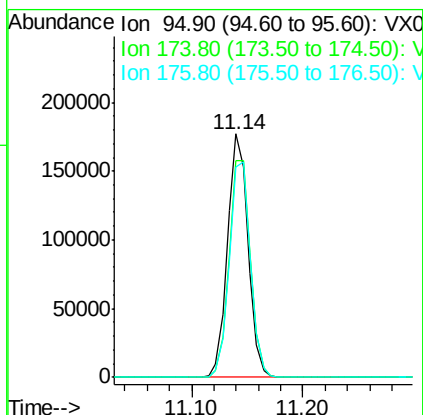
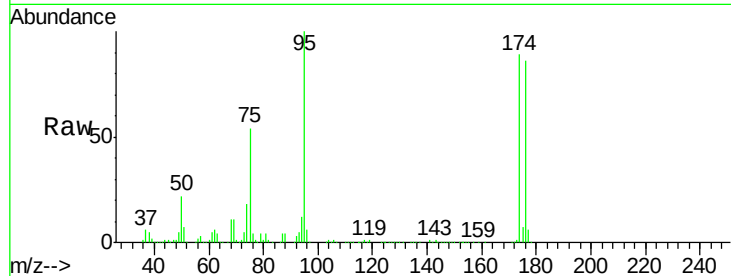




#62
4-Bromofluorobenzene
Concen: 35.99 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

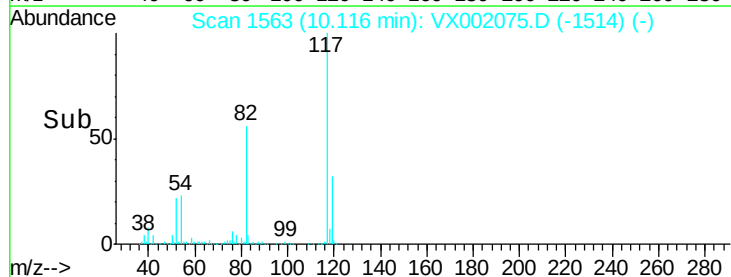
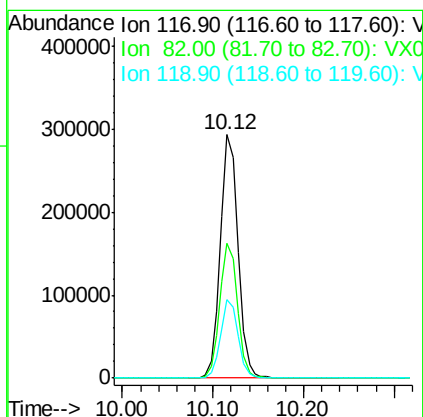
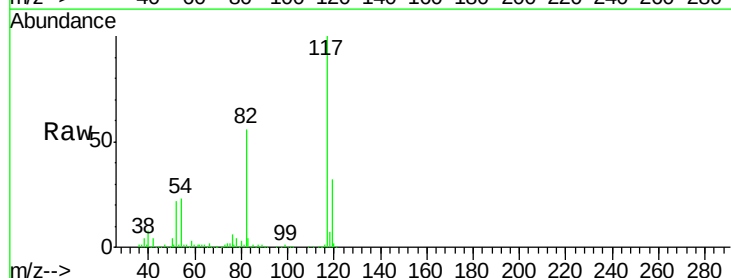
Instrument :
MSVOA_X
ClientSampleId :

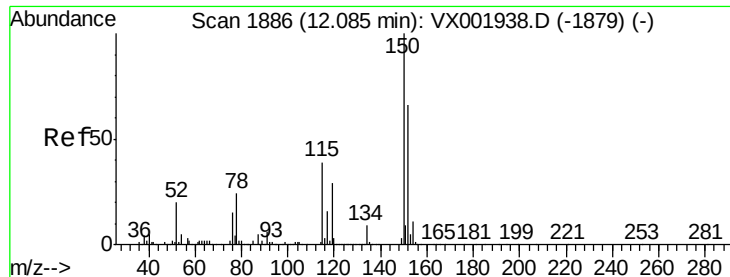
Tot Ion	95	Resp	225819
Ion	Ratio	Lower	Upper
95	100		
174	92.7	0.0	178.8
176	90.8	0.0	175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

Tgt Ion	117	Resp	401658
Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.8	67.2
119	32.1	25.5	38.3



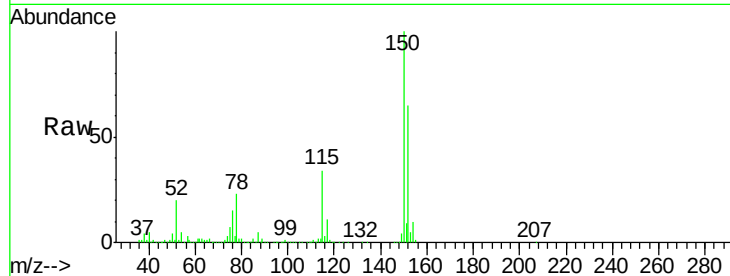


#72

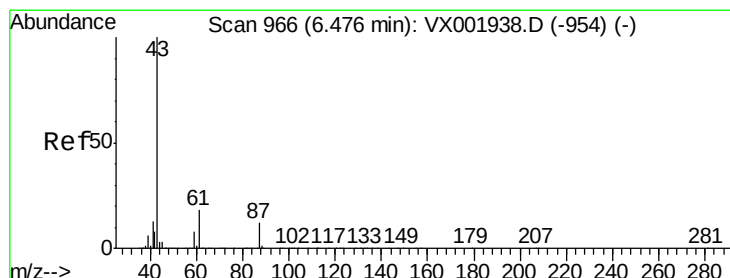
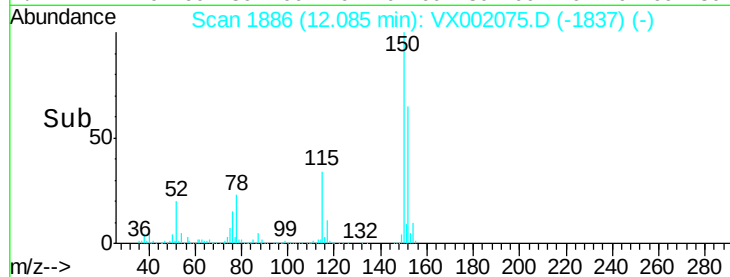
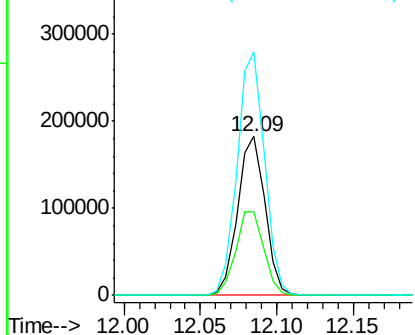
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.5	42.3	126.8
150	153.5	0.0	351.0



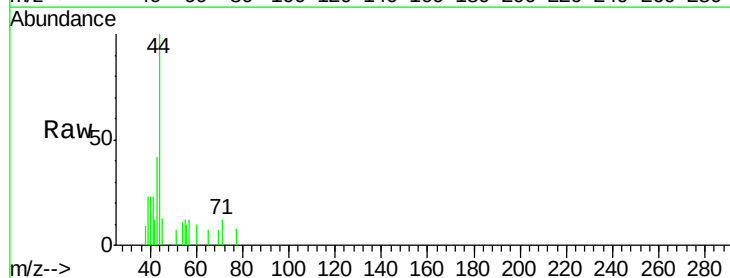
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



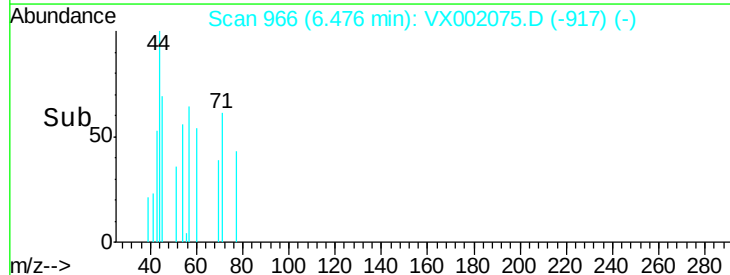
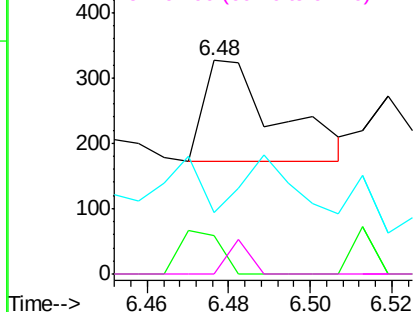
#74

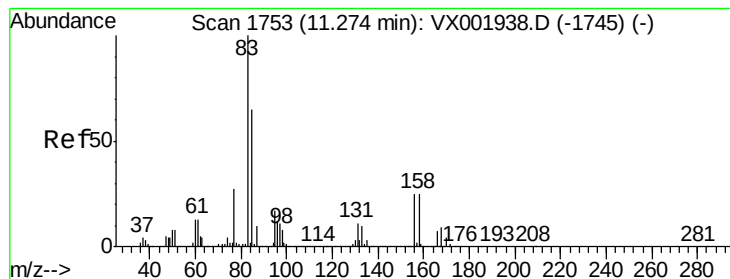
N-amil acetate
Concen: Below Cal
RT: 6.48 min Scan# 966
Delta R.T. 0.00 min
Lab File: VX002075.D
Acq: 27 May 2018 18:11

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	42.5	0.1	0.1#
61	9.8	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: 11.29 min Scan# 1756

Delta R.T. 0.02 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

ClientSampled :

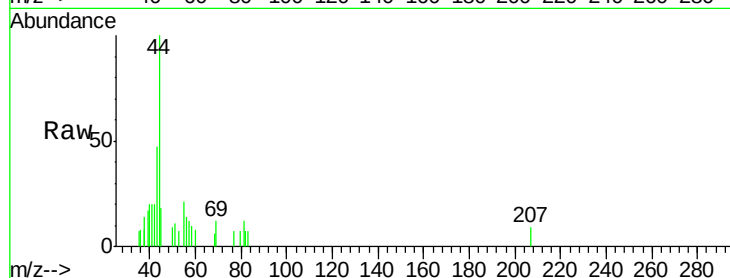
Tot Ion: 83 Resp: 22

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 427.3 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

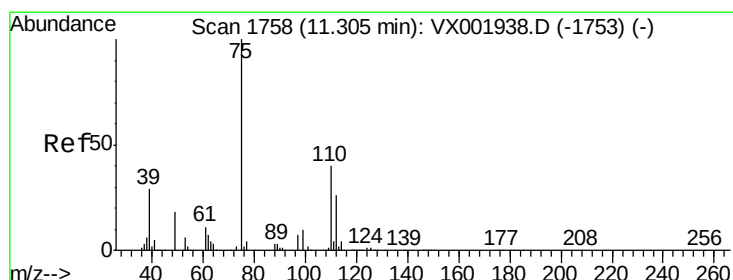
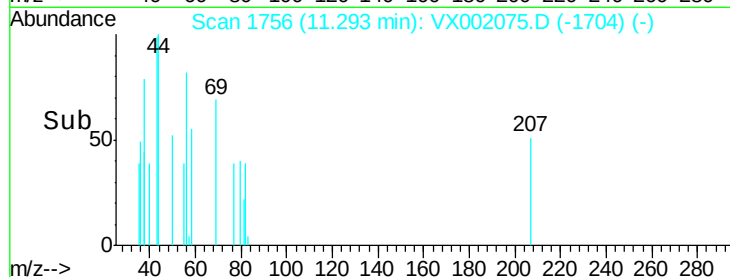
Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0

11.29

11.28 11.30

Time-->



#76

1,2,3-Trichloropropane

Concen: 22.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002075.D

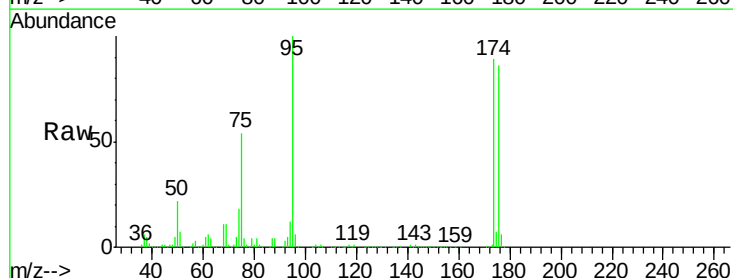
Acq: 27 May 2018 18:11

Tgt Ion: 75 Resp: 119662

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



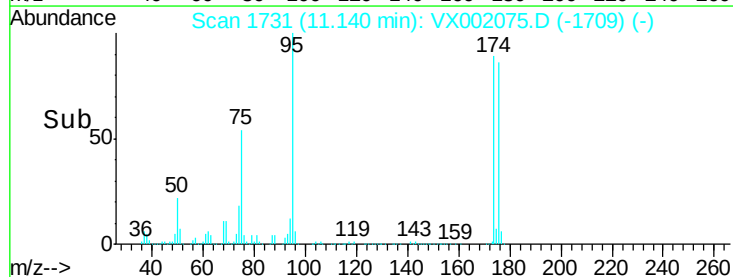
Abundance Ion 74.90 (74.60 to 75.60): VX0

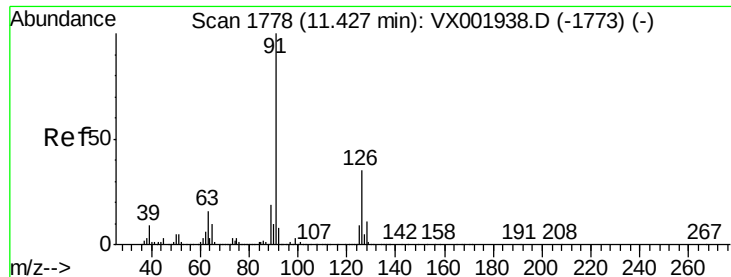
Ion 77.00 (76.70 to 77.70): VX0

11.14

11.05 11.10 11.15 11.20

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.44 min Scan# 1780

Delta R.T. 0.01 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

Instrument :

MSVOA_X

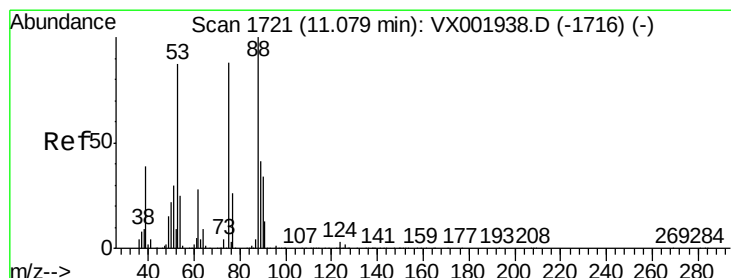
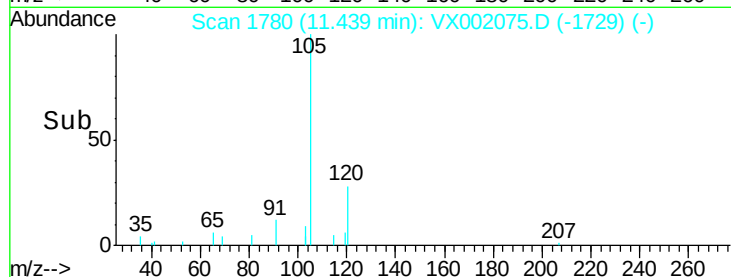
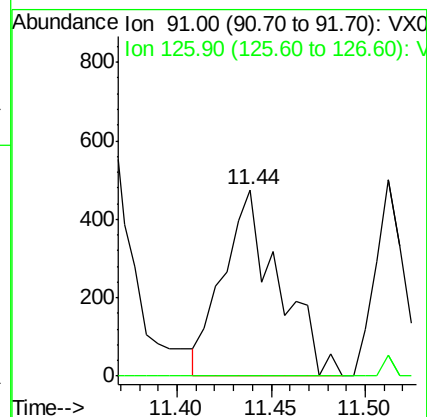
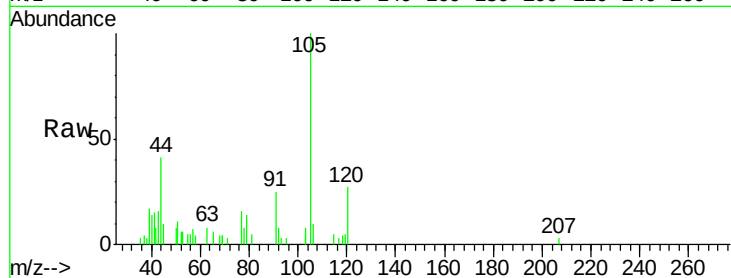
ClientSampled :

Tot Ion: 91 Resp: 961

Ion Ratio Lower Upper

91 100

126 0.0 17.4 52.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002075.D

Acq: 27 May 2018 18:11

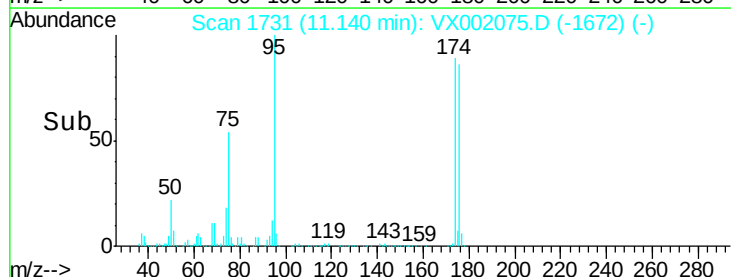
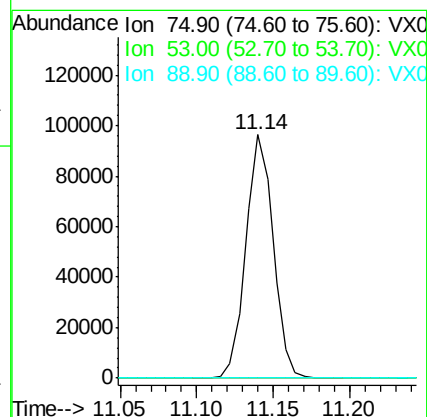
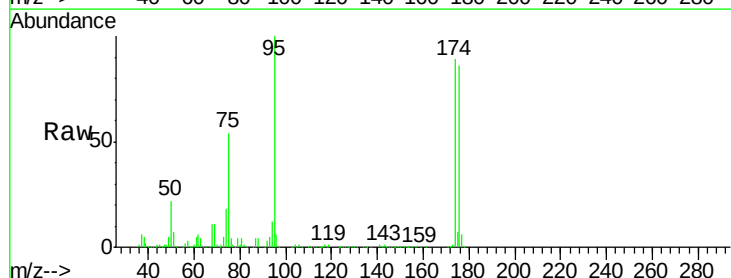
Tgt Ion: 75 Resp: 119662

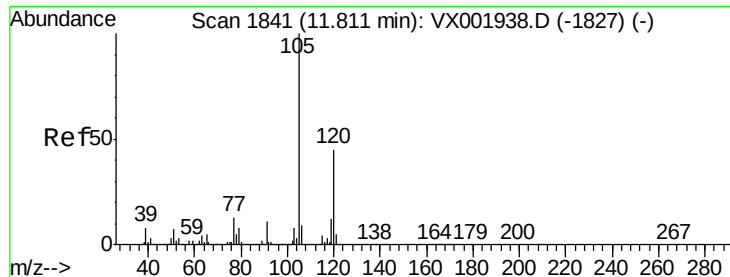
Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

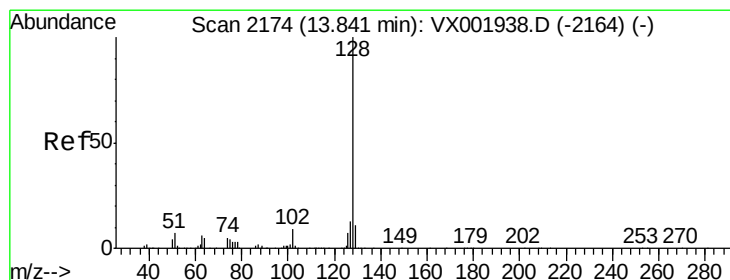
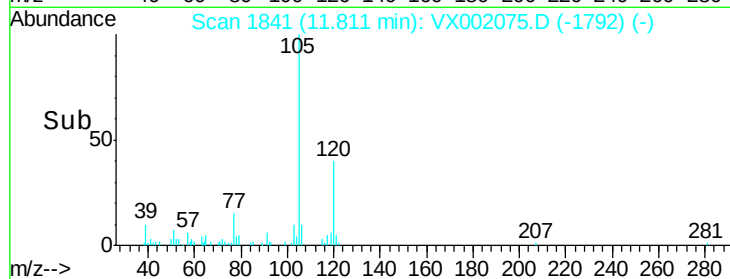
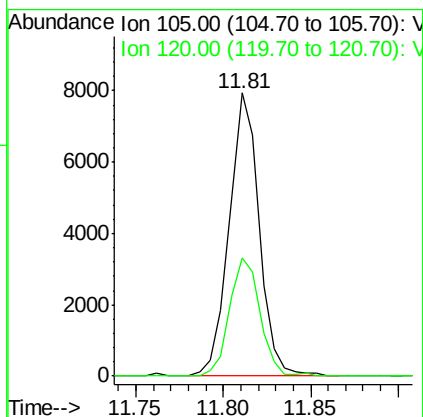
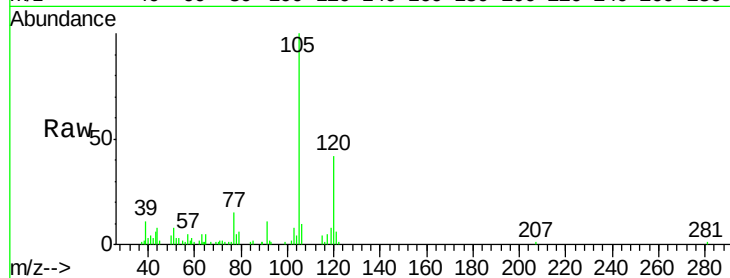




#84
 1,2,4-Trimethylbenzene
 Concen: 0.56 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX002075.D
 Acq: 27 May 2018 18:11

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 9512
 Ion Ratio Lower Upper
 105 100
 120 42.3 22.1 66.5



#95
 Naphthalene
 Concen: 1.63 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VX002075.D
 Acq: 27 May 2018 18:11

Tgt Ion:128 Resp: 33266
 Ion Ratio Lower Upper
 128 100
 127 13.4 10.4 15.6
 129 11.8 8.8 13.2

