

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002076.D
 Acq On : 27 May 2018 18:38
 Operator : JC/MD
 Sample : J3130-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:59:23 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	316277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	435206	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	399760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	221673	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	204868	36.24	ug/l	0.00
Spiked Amount			Recovery	=	72.48%	
35) Dibromofluoromethane	5.51	113	158572	36.44	ug/l	0.00
Spiked Amount			Recovery	=	72.88%	
50) Toluene-d8	8.72	98	628933	39.92	ug/l	0.00
Spiked Amount			Recovery	=	79.84%	
62) 4-Bromofluorobenzene	11.14	95	224700	36.45	ug/l	0.00
Spiked Amount			Recovery	=	72.90%	

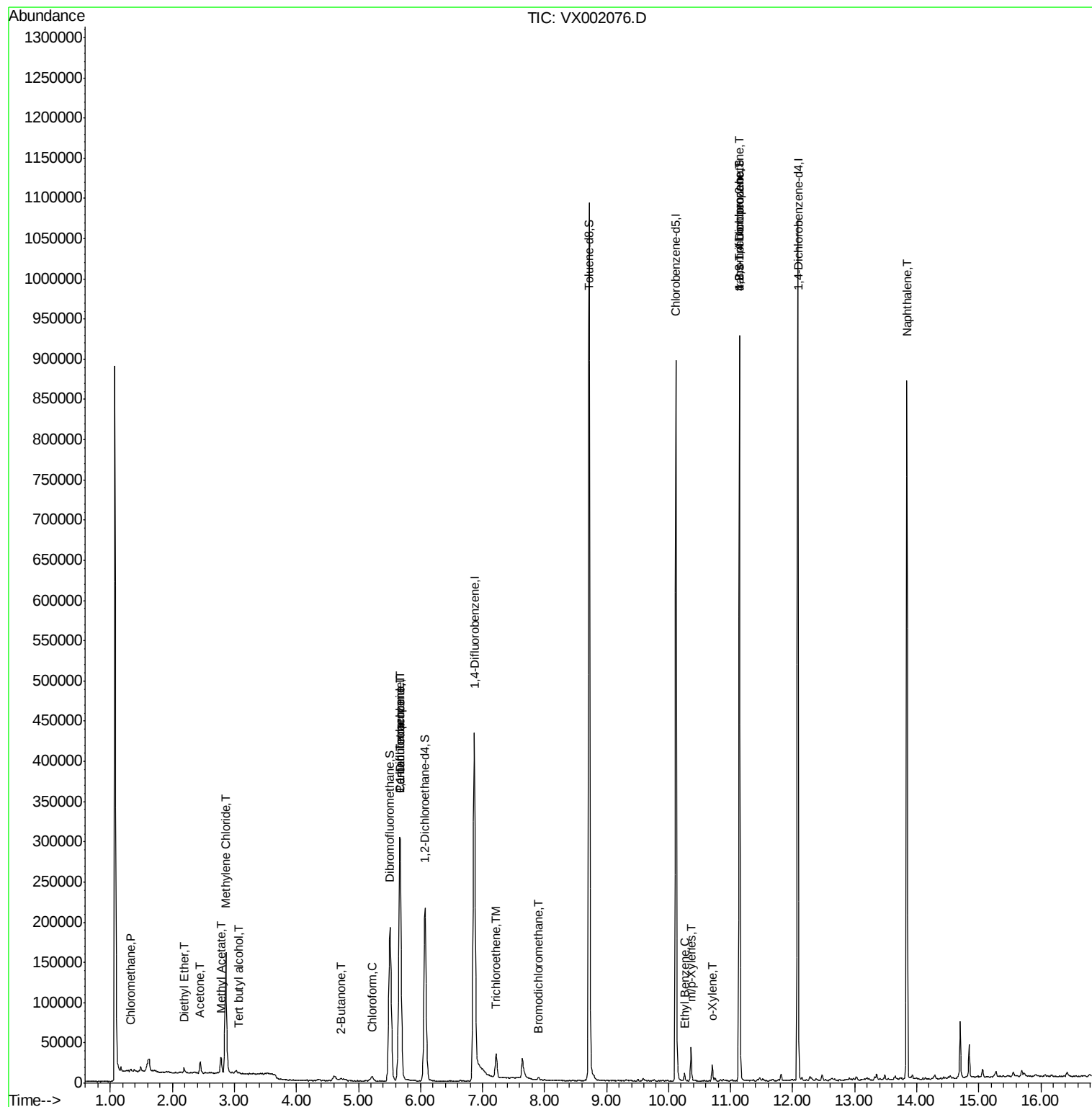
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	116	Below Cal	#	41
3) Chloromethane	1.33	50	2639	0.54	ug/l	89
5) Bromomethane	1.64	94	610	Below Cal		86
8) Diethyl Ether	2.19	74	2749	1.07	ug/l	98
11) Tert butyl alcohol	3.07	59	1621	1.46	ug/l	# 74
16) Acetone	2.45	43	15405	7.06	ug/l	97
18) Methyl Acetate	2.78	43	24529	3.61	ug/l	99
20) Methylene Chloride	2.86	84	69181	17.22	ug/l	99
21) trans-1,2-Dichloroethene	3.18	96	244	Below Cal	#	18
25) 2-Butanone	4.71	43	4813	1.20	ug/l	# 81
28) Bromochloromethane	5.12	49	22	Below Cal	#	14
30) Chloroform	5.21	83	5664	0.67	ug/l	96
36) 1,1-Dichloropropene	5.67	75	21463	3.55	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	28823	4.08	ug/l	# 14
41) Methacrylonitrile	5.09	41	59	Below Cal	#	20
44) Trichloroethene	7.22	130	11189	2.17	ug/l	96
47) Bromodichloromethane	7.90	83	1556	0.23	ug/l	# 95
67) Ethyl Benzene	10.26	91	4559	0.21	ug/l	97
68) m/p-Xylenes	10.36	106	9050	1.08	ug/l	99
69) o-Xylene	10.70	106	4265	0.51	ug/l	100
74) N-amyl acetate	6.47	43	381	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.28	83	39	Below Cal	#	92
76) 1,2,3-Trichloropropane	11.14	75	117585	22.08	ug/l	# 33
79) 2-Chlorotoluene	11.52	91	400	Below Cal		80
81) trans-1,4-Dichloro-2-buten	11.14	75	117585	53.08	ug/l	# 10
95) Naphthalene	13.84	128	514176	25.68	ug/l	100

(#) = 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: VX002076.D

Acq: 27 May 2018 18:38

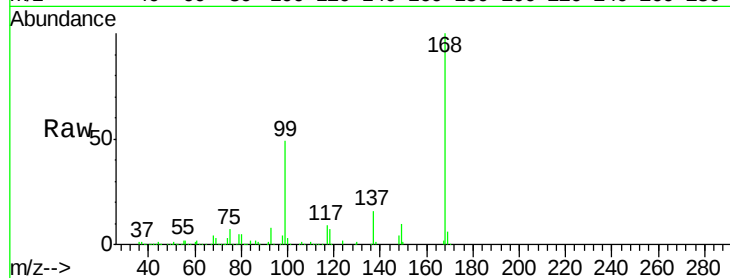
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 316277

Ion Ratio Lower Upper

168 100

99 49.2 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

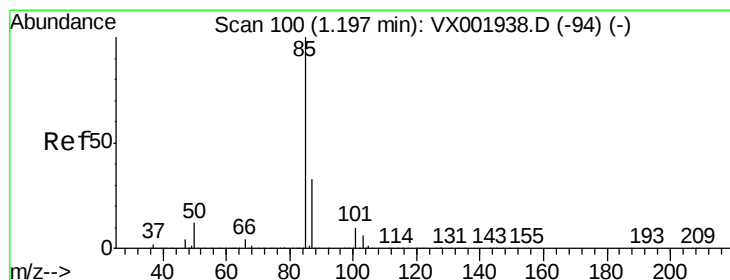
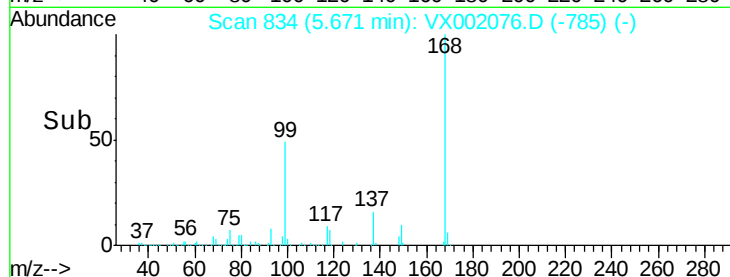
60000

40000

20000

0

Time--> 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: VX002076.D

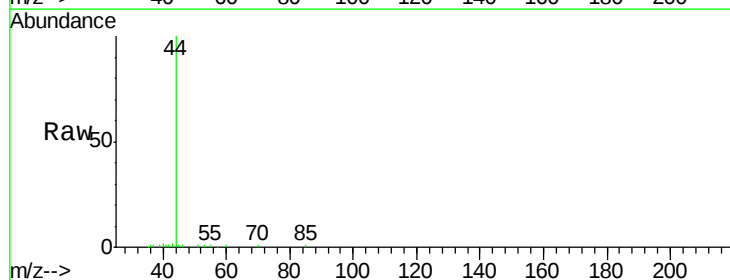
Acq: 27 May 2018 18:38

Tgt Ion: 85 Resp: 116

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

120

100

80

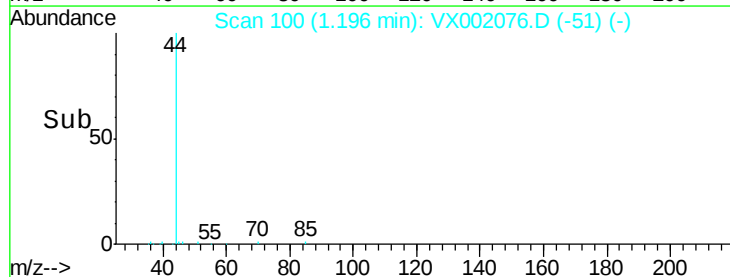
60

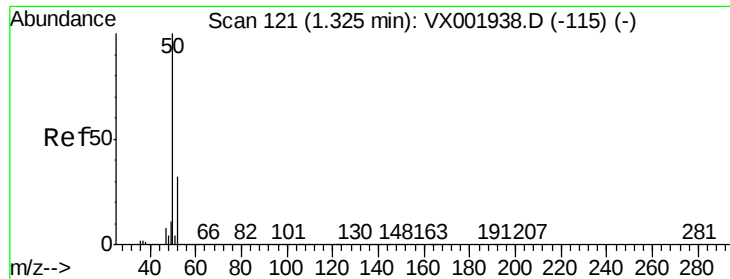
40

20

0

Time--> 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.54 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :

MSVOA_X

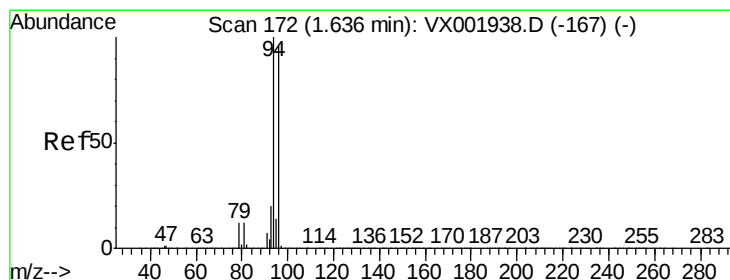
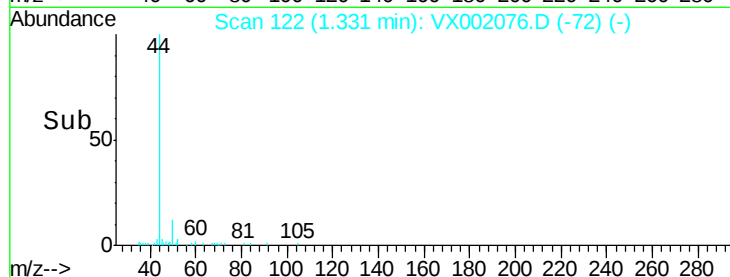
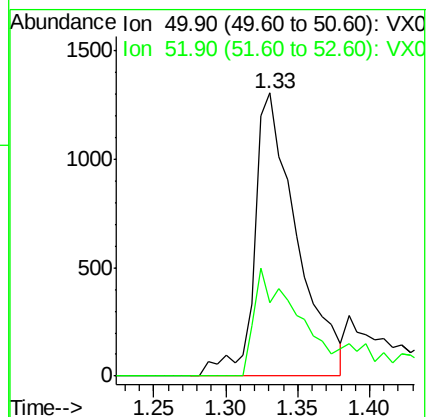
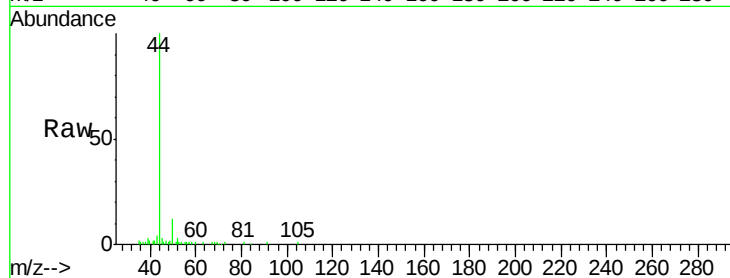
ClientSampleId :

Tot Ion: 50 Resp: 2639

Ion Ratio Lower Upper

50 100

52 26.2 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX002076.D

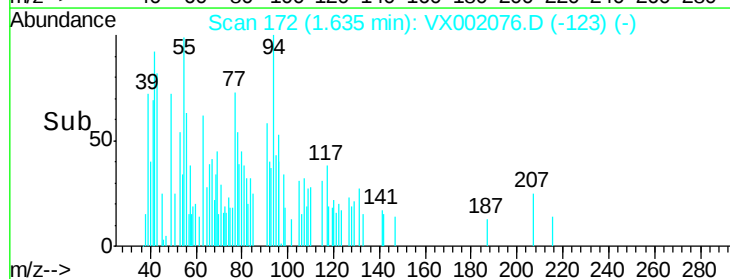
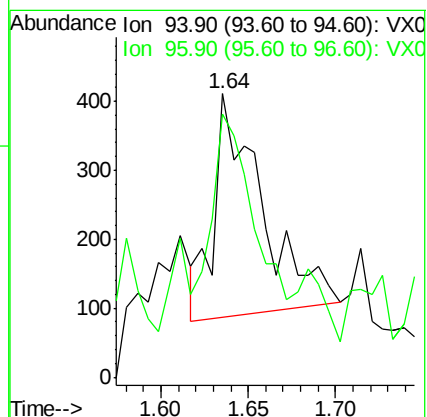
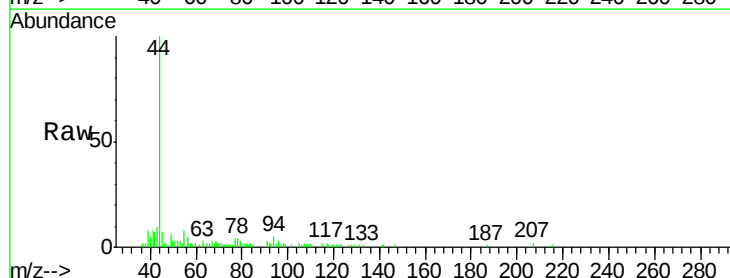
Acq: 27 May 2018 18:38

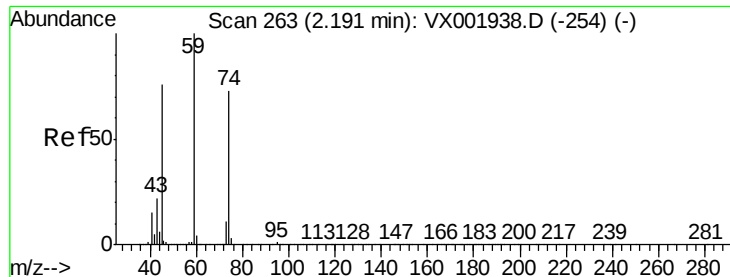
Tgt Ion: 94 Resp: 610

Ion Ratio Lower Upper

94 100

96 108.9 75.9 113.9





#8

Diethyl Ether

Concen: 1.07 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :

MSVOA_X

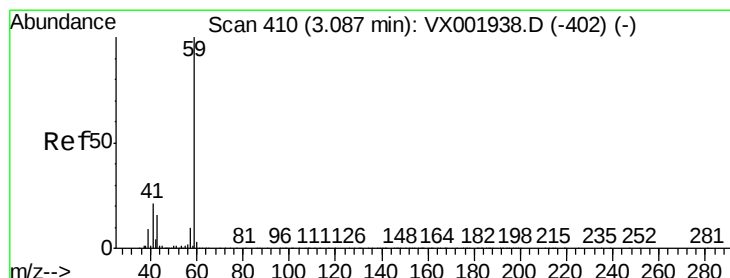
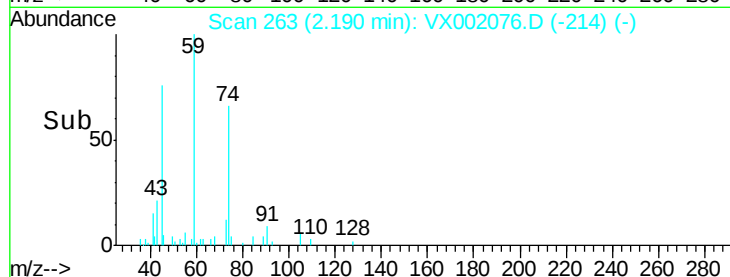
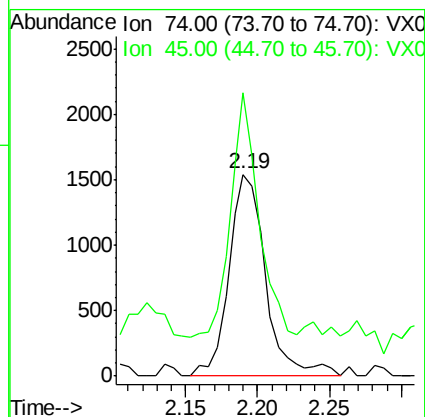
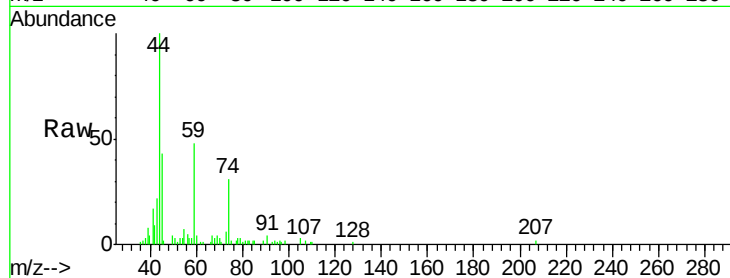
ClientSampleId :

Tot Ion: 74 Resp: 2749

Ion Ratio Lower Upper

74 100

45 100.9 51.5 154.7



#11

Tert butyl alcohol

Concen: 1.46 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002076.D

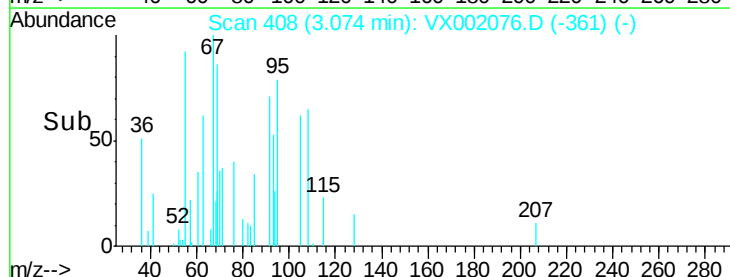
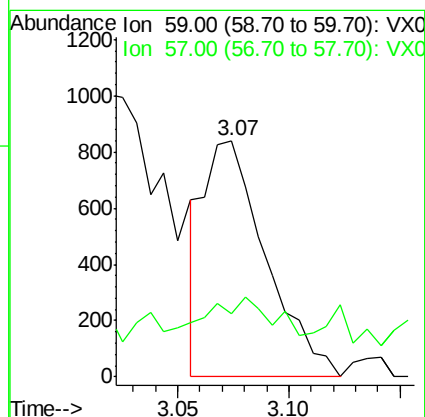
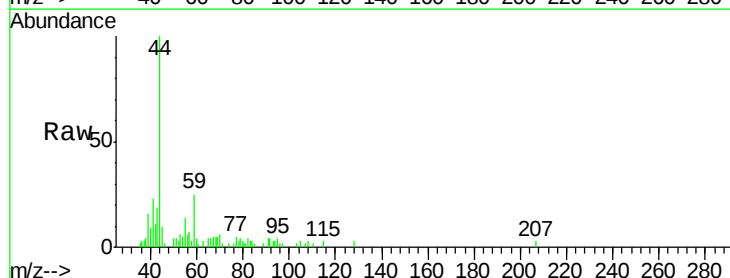
Acq: 27 May 2018 18:38

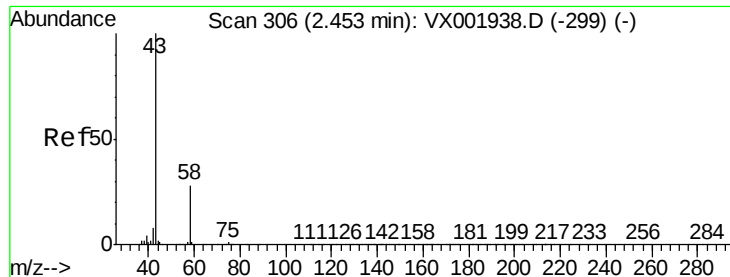
Tgt Ion: 59 Resp: 1621

Ion Ratio Lower Upper

59 100

57 21.1 8.9 13.3#

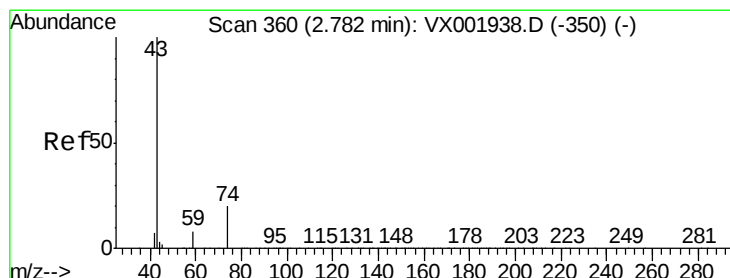
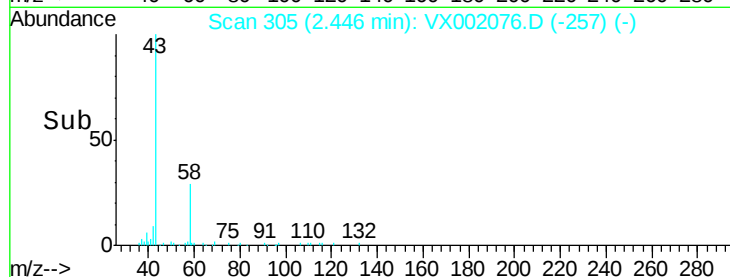
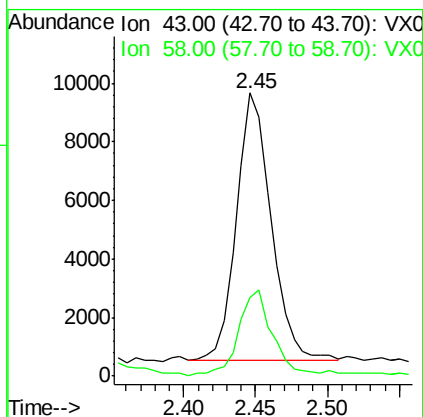
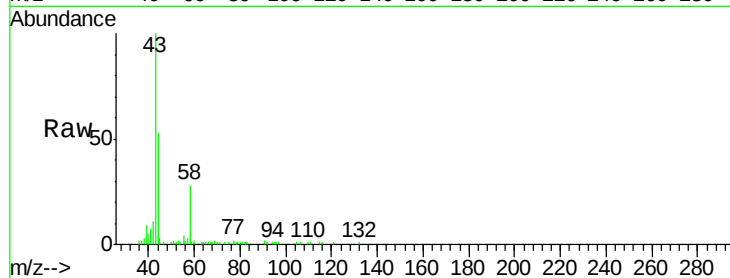




#16
Acetone
Concen: 7.06 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

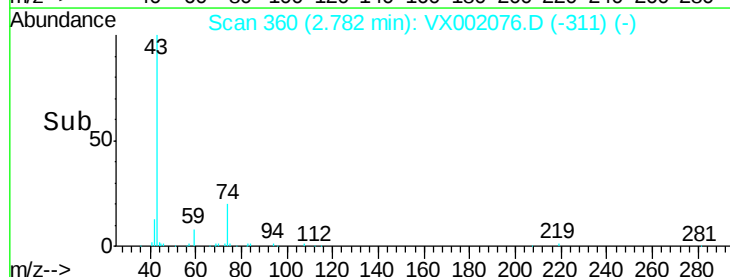
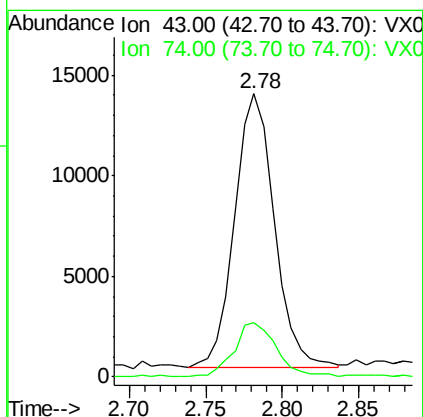
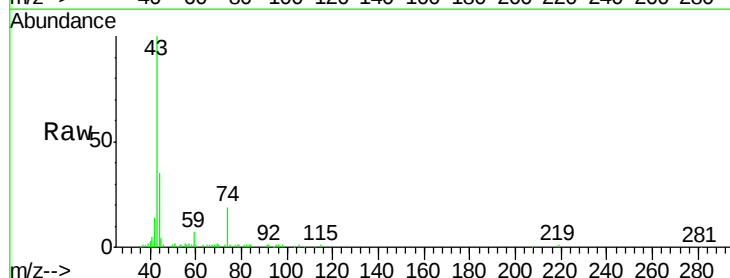
Instrument :
MSVOA_X
ClientSampled :

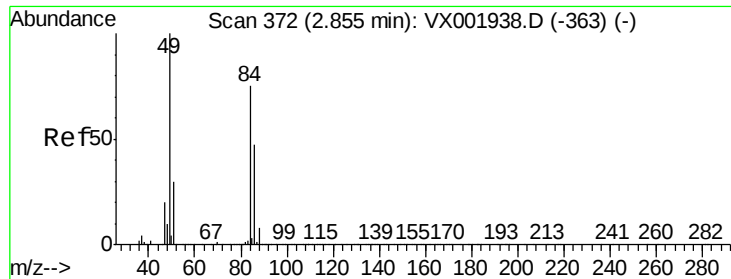
Tot Ion: 43 Resp: 15405
Ion Ratio Lower Upper
43 100
58 29.3 22.3 33.5



#18
Methyl Acetate
Concen: 3.61 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

Tgt Ion: 43 Resp: 24529
Ion Ratio Lower Upper
43 100
74 21.4 16.8 25.2

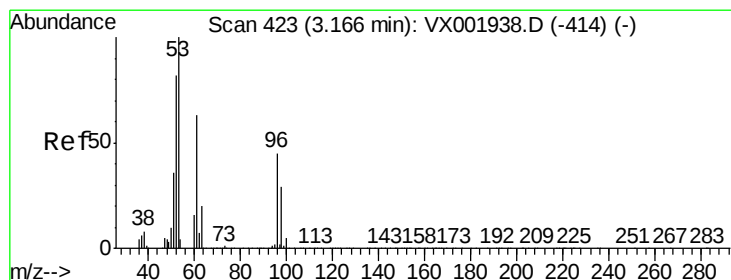
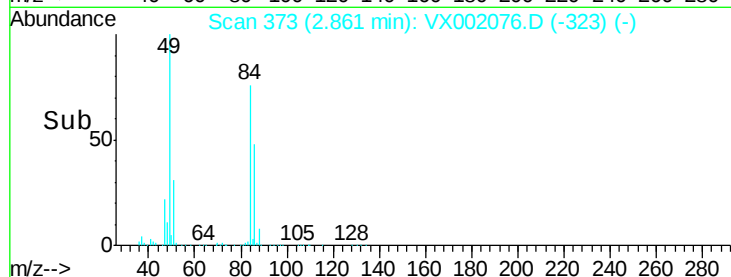
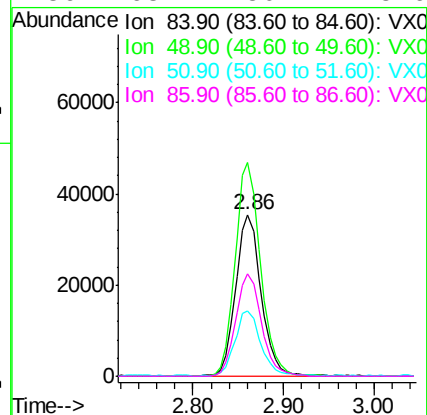
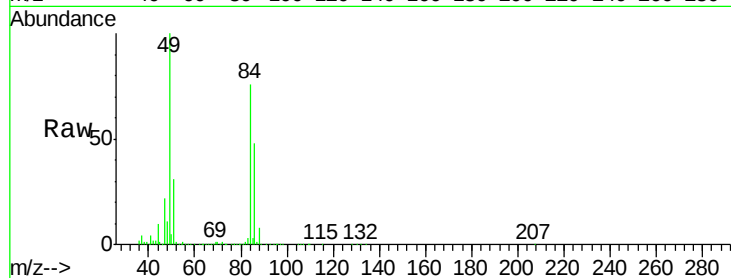




#20
Methvlene Chloride
Concen: 17.22 ua/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

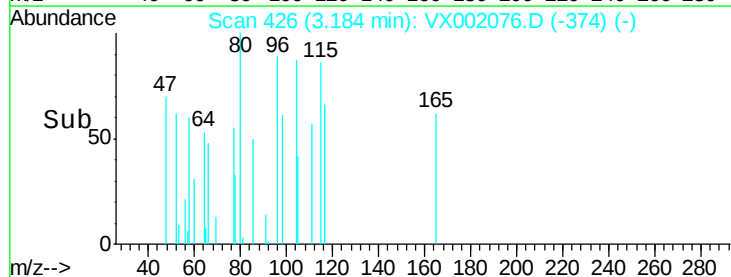
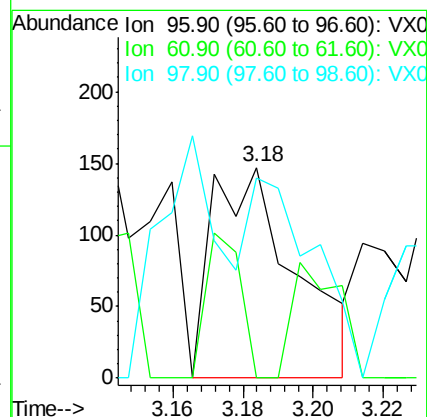
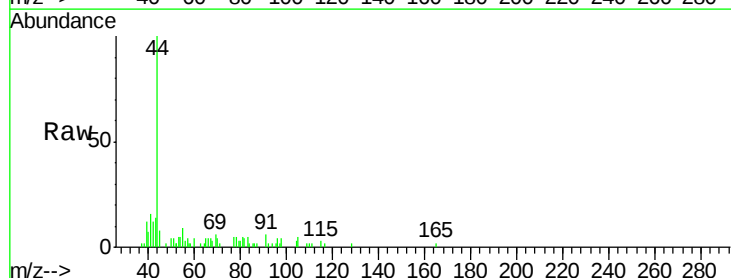
Instrument :
MSVOA_X
ClientSampleId :

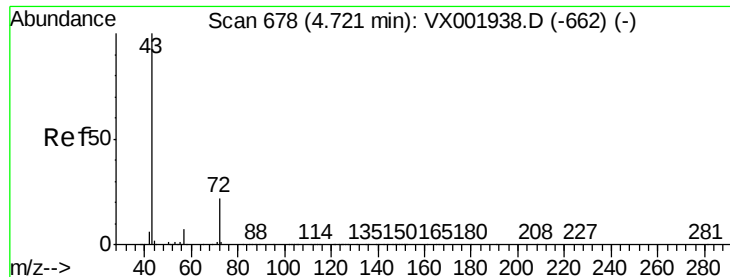
Tot Ion: 84 Resp: 69181
Ion Ratio Lower Upper
84 100
49 131.9 107.2 160.8
51 40.3 32.4 48.6
86 63.2 50.4 75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.18 min Scan# 426
Delta R.T. 0.02 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

Tgt Ion: 96 Resp: 244
Ion Ratio Lower Upper
96 100
61 0.0 113.3 169.9#
98 58.5 51.7 77.5





#25

2-Butanone

Concen: 1.20 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :

MSVOA_X

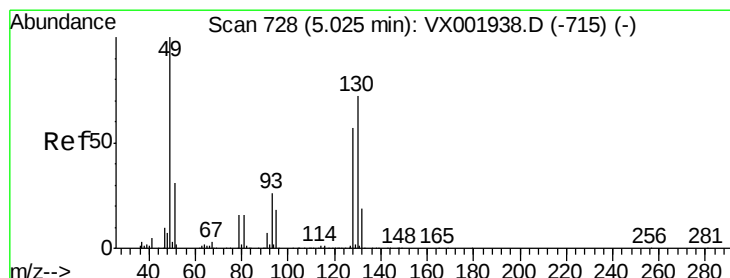
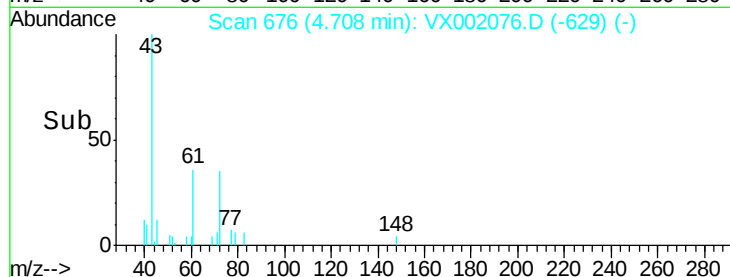
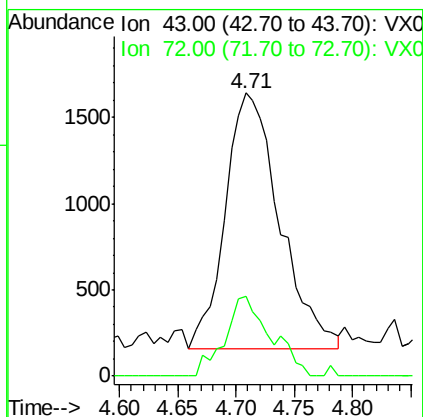
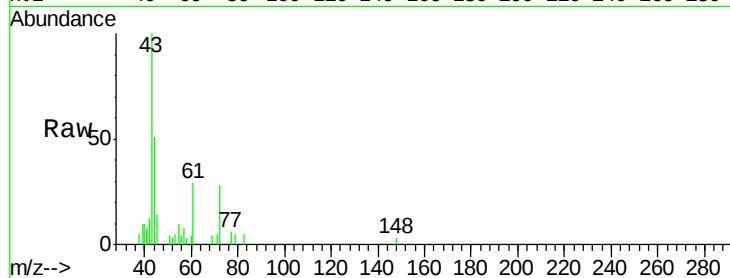
ClientSampleId :

Tot Ion: 43 Resp: 4813

Ion Ratio Lower Upper

43 100

72 31.4 17.9 26.9#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.12 min Scan# 744

Delta R.T. 0.10 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

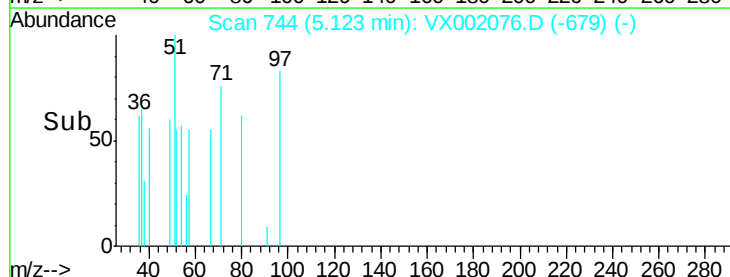
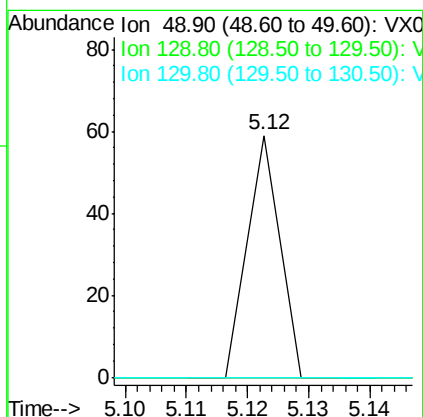
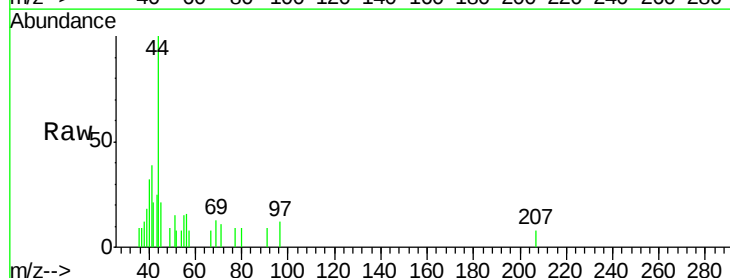
Tgt Ion: 49 Resp: 22

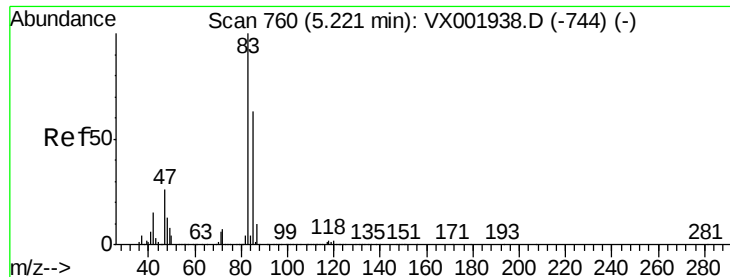
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 59.4 89.2#

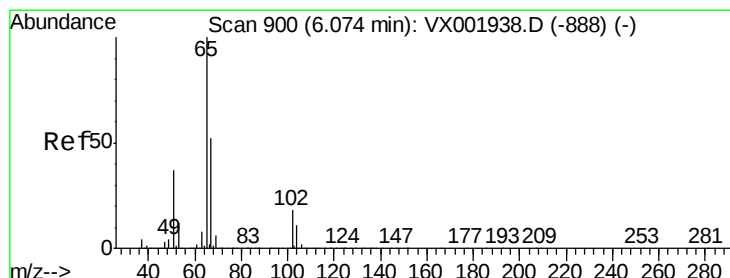
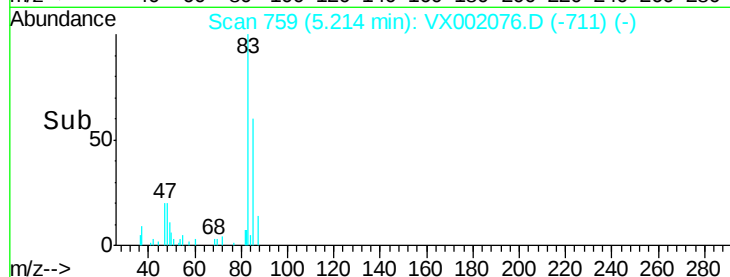
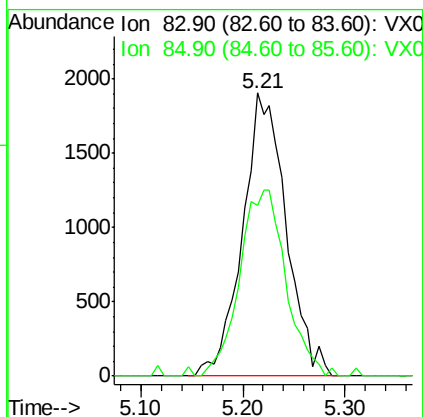
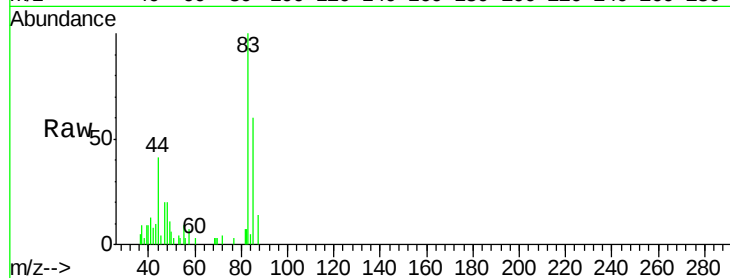




#30
Chloroform
Concen: 0.67 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

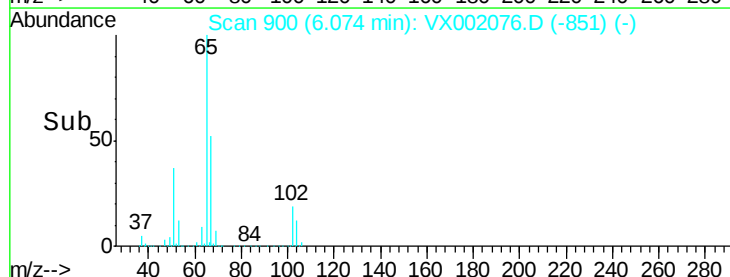
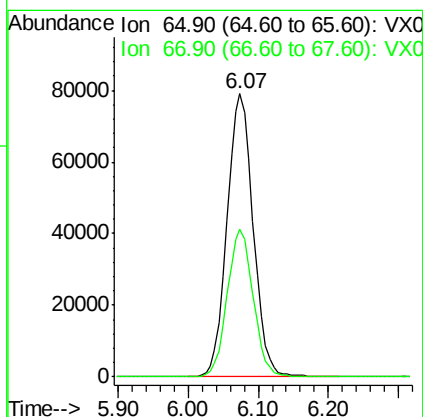
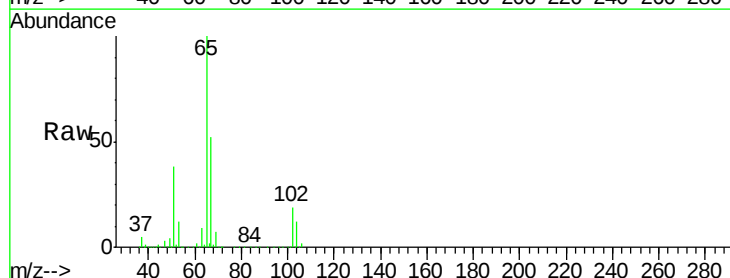
Instrument :
MSVOA_X
ClientSampled :

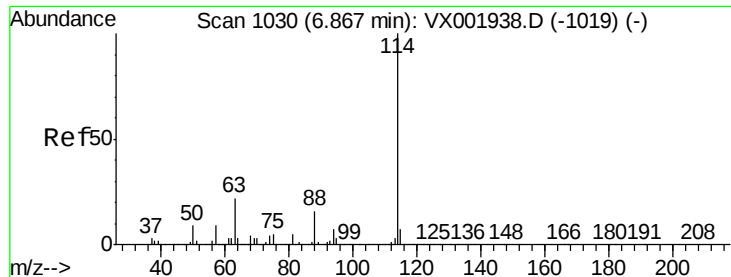
Tot Ion: 83 Resp: 5664
Ion Ratio Lower Upper
83 100
85 60.3 50.9 76.3



#33
1,2-Dichloroethane-d4
Concen: 36.24 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

Tgt Ion: 65 Resp: 204868
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.0

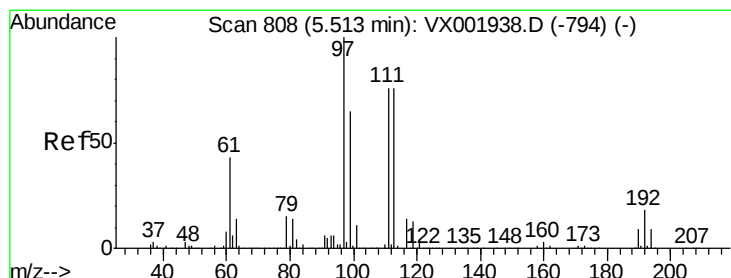
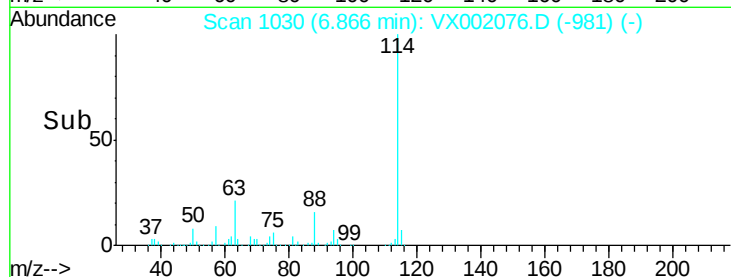
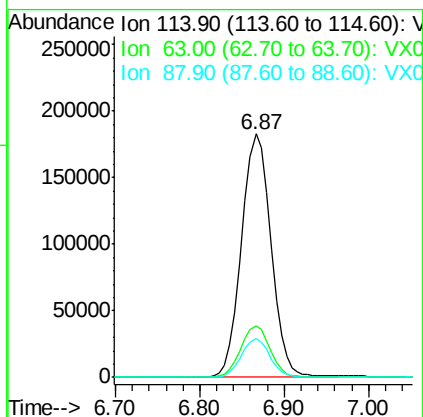
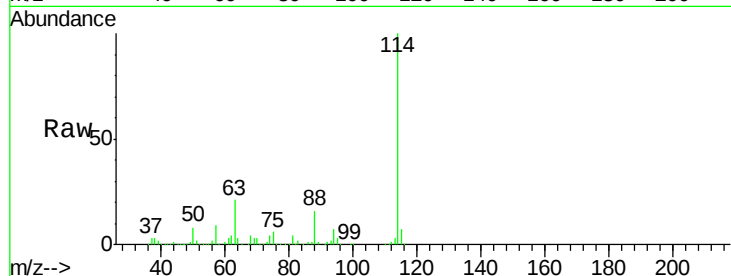




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002076.D
 Acq: 27 May 2018 18:38

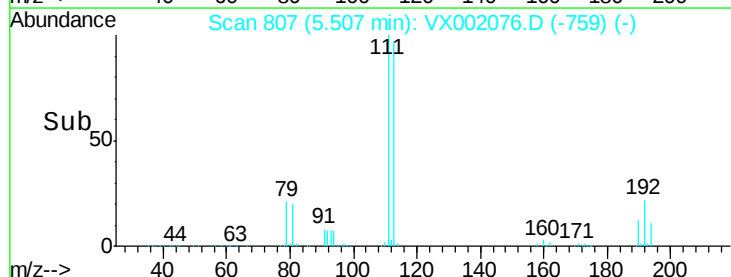
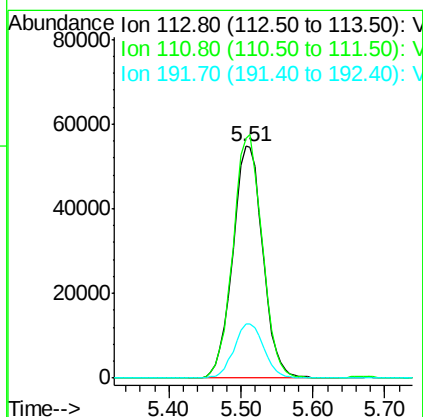
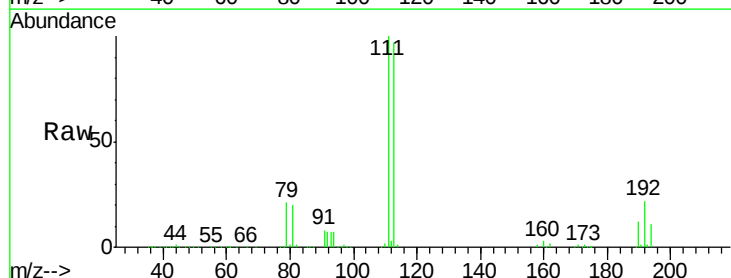
Instrument :
 MSVOA_X
 ClientSampleId :

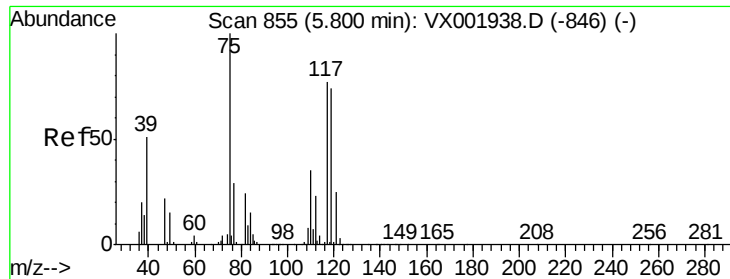
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.2
88	15.9	0.0	31.6



#35
 Dibromofluoromethane
 Concen: 36.44 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: VX002076.D
 Acq: 27 May 2018 18:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.0	123.0
192	23.4	18.9	28.3





#36

1,1-Dichloropropene

Concen: 3.55 ug/l

RT: 5.67 min Scan# 833

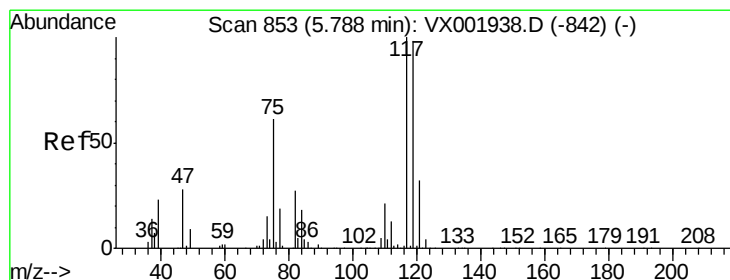
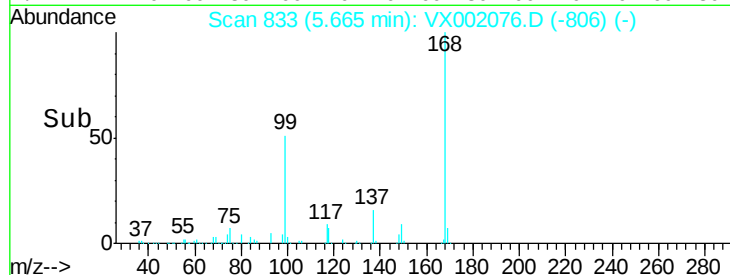
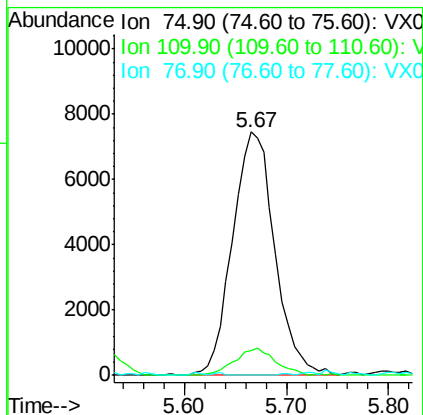
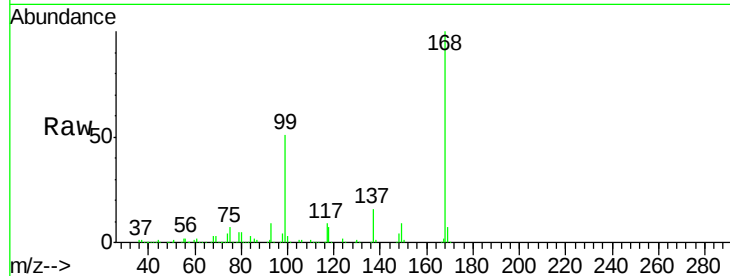
Delta R.T. -0.13 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	21463
Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.4	52.2#
77	0.0	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 4.08 ug/l

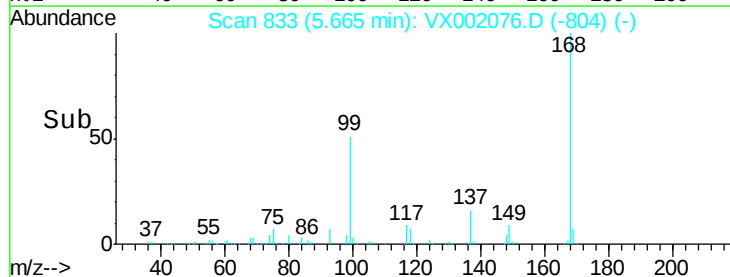
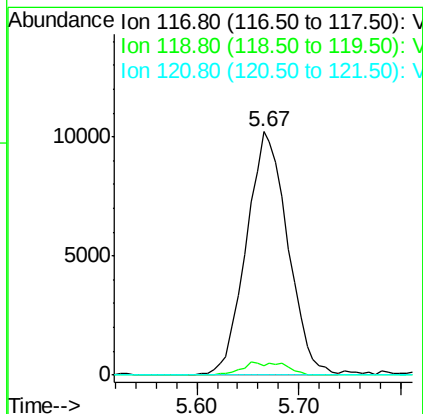
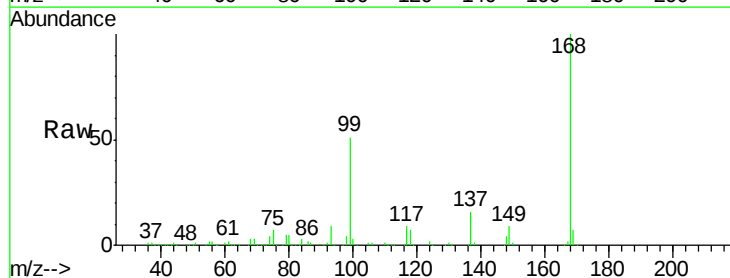
RT: 5.67 min Scan# 833

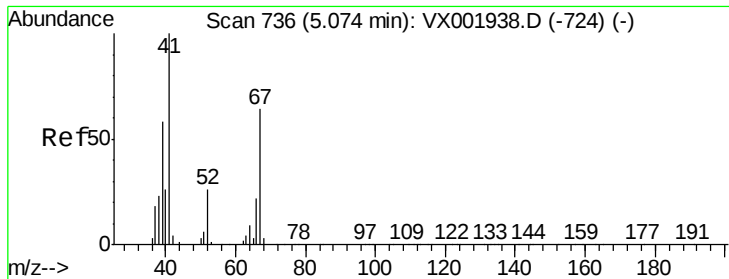
Delta R.T. -0.12 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Tgt Ion:	117	Resp:	28823
Ion	Ratio	Lower	Upper
117	100		
119	4.0	78.5	117.7#
121	0.0	25.5	38.3#





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.09 min Scan# 738

Delta R.T. 0.01 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

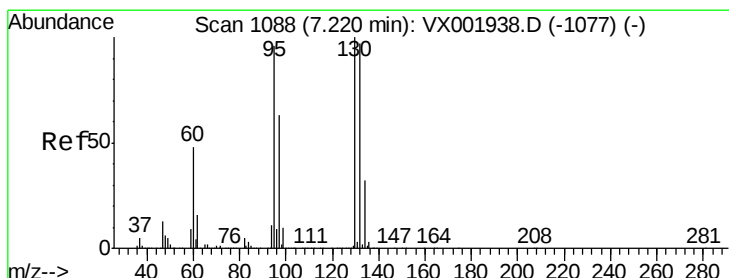
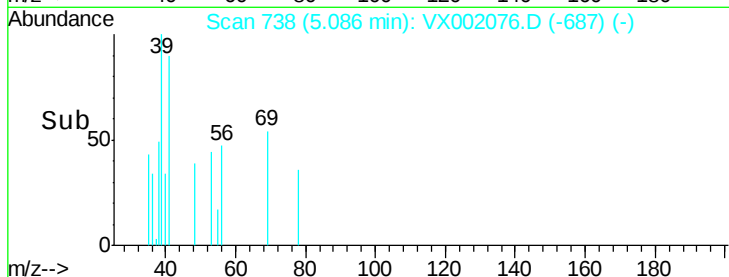
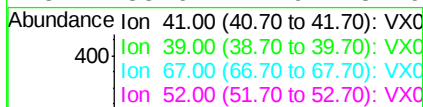
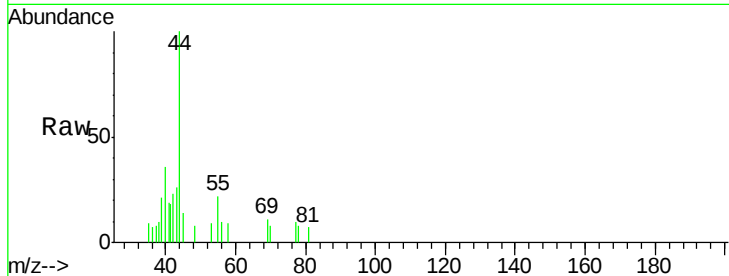
Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 41 Resp: 59

Ion	Ratio	Lower	Upper
41	100		
39	93.2	46.0	69.0#
67	169.5	50.6	75.8#
52	35.6	21.9	32.9#



#44

Trichloroethene

Concen: 2.17 ug/l

RT: 7.22 min Scan# 1088

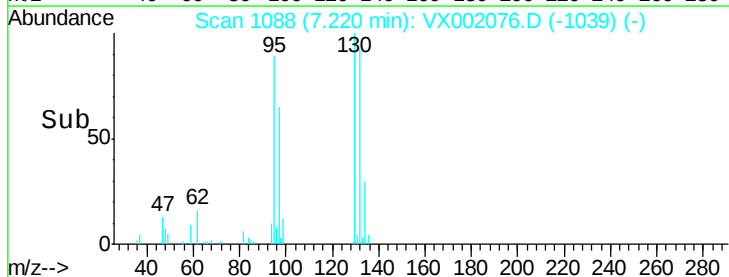
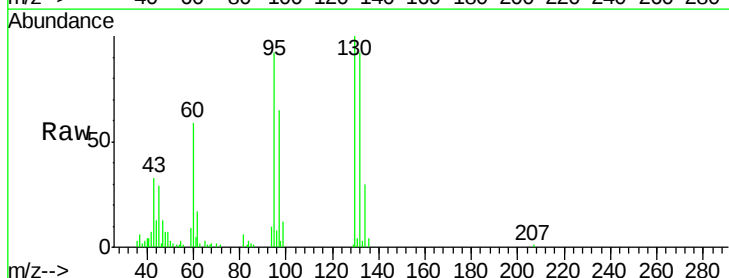
Delta R.T. -0.00 min

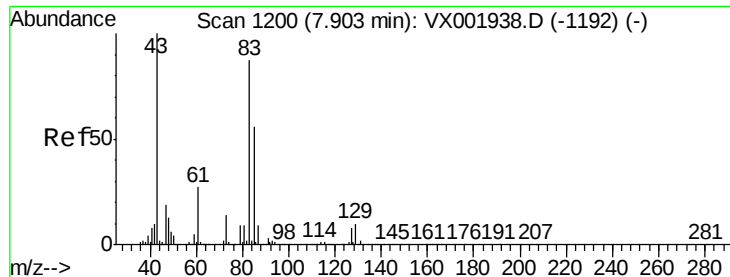
Lab File: VX002076.D

Acq: 27 May 2018 18:38

Tgt Ion: 130 Resp: 11189

Ion	Ratio	Lower	Upper
130	100		
95	91.9	0.0	192.0





#47

Bromodichloromethane

Concen: 0.23 ug/l

RT: 7.90 min Scan# 1200

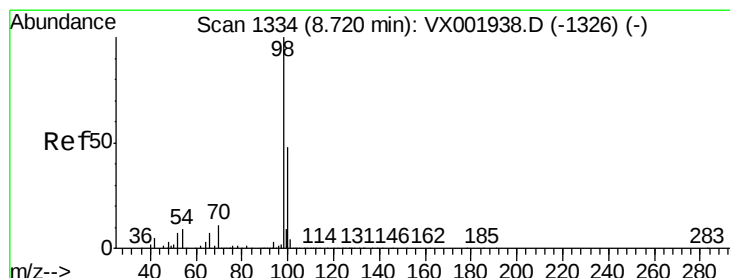
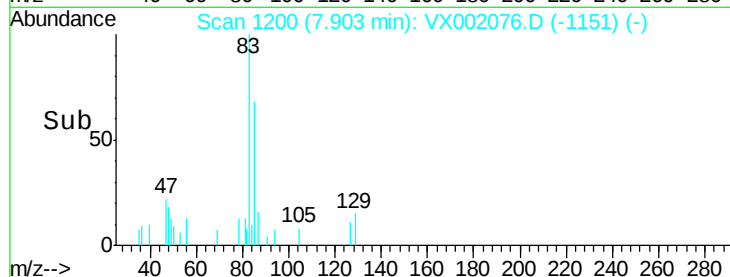
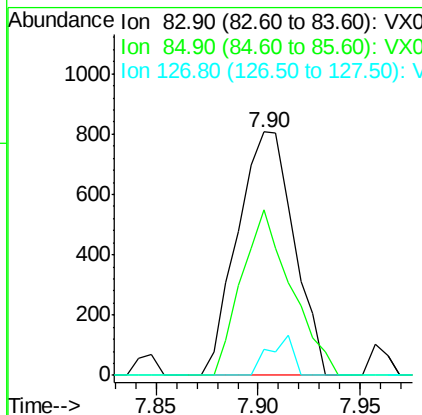
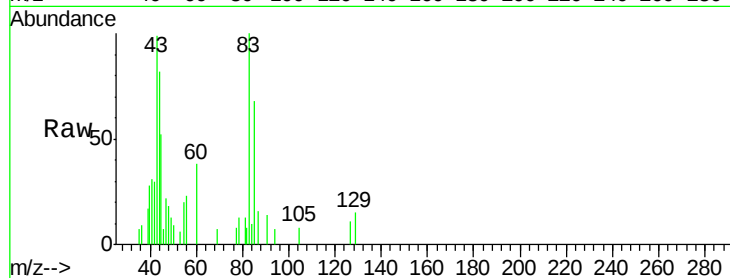
Delta R.T. -0.00 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	83	Resp:	1556
Ion	Ratio	Lower	Upper
83	100		
85	68.2	51.4	77.2
127	10.8	7.1	10.7#



#50

Toluene-d8

Concen: 39.92 ug/l

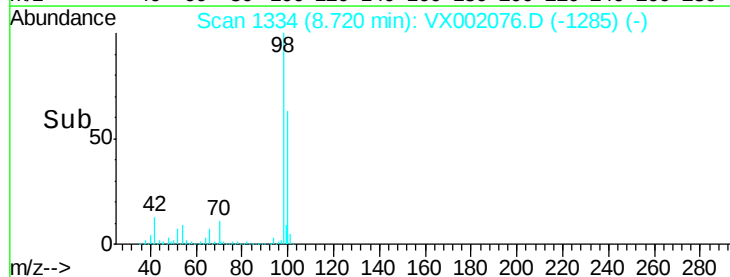
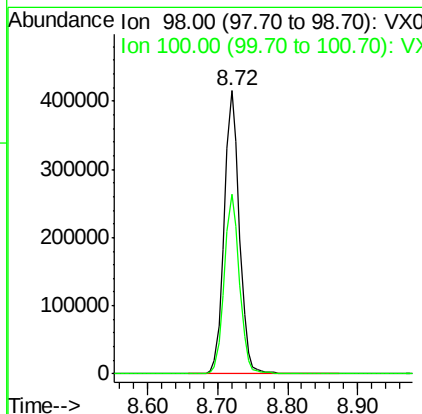
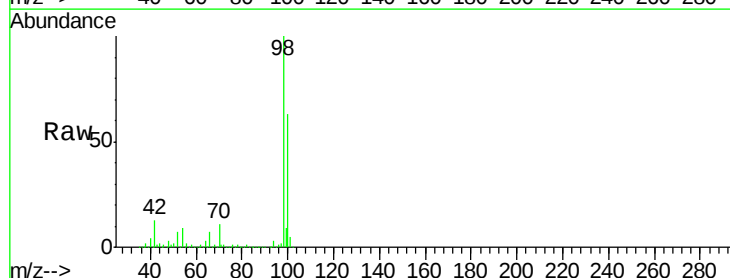
RT: 8.72 min Scan# 1334

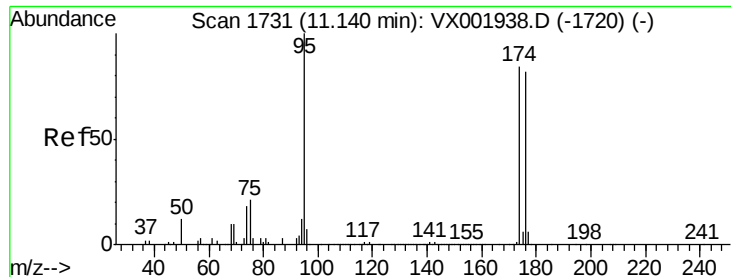
Delta R.T. 0.00 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Tgt Ion:	98	Resp:	628933
Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.5	77.3





#62

4-Bromofluorobenzene

Concen: 36.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :

MSVOA_X

ClientSampleId :

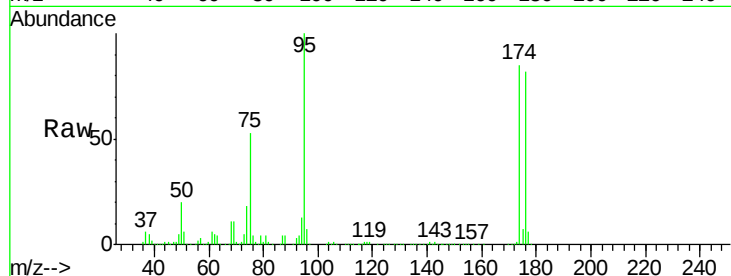
Tot Ion: 95 Resp: 224700

Ion Ratio Lower Upper

95 100

174 91.5 0.0 178.8

176 89.0 0.0 175.6

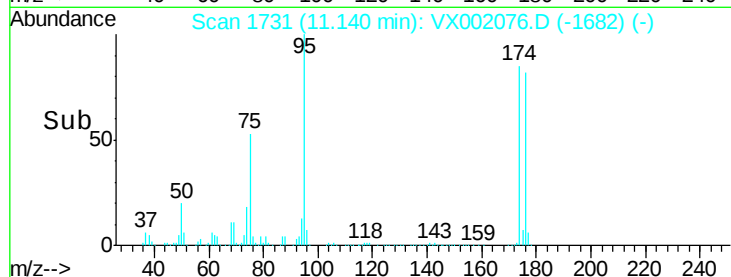


Abundance Ion 94.90 (94.60 to 95.60): VX001938.D (-1720) (-)

Ion 173.80 (173.50 to 174.50): VX001938.D (-1720) (-)

Ion 175.80 (175.50 to 176.50): VX001938.D (-1720) (-)

Time-->

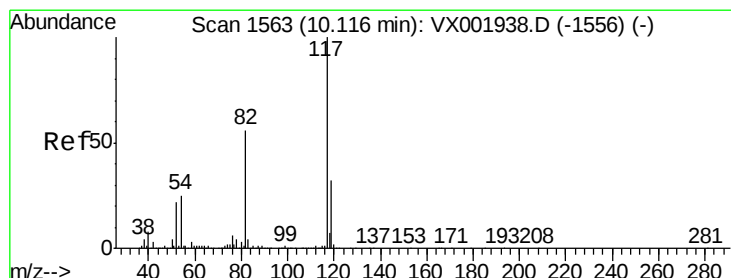


Abundance Ion 94.90 (94.60 to 95.60): VX002076.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002076.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002076.D (-1682) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

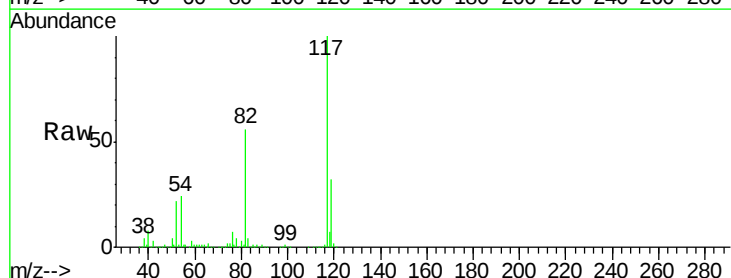
Tgt Ion: 117 Resp: 399760

Ion Ratio Lower Upper

117 100

82 55.6 44.8 67.2

119 31.7 25.5 38.3

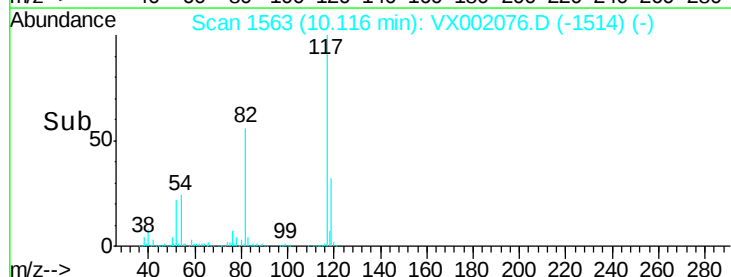


Abundance Ion 116.90 (116.60 to 117.60): VX001938.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX001938.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX001938.D (-1556) (-)

Time-->

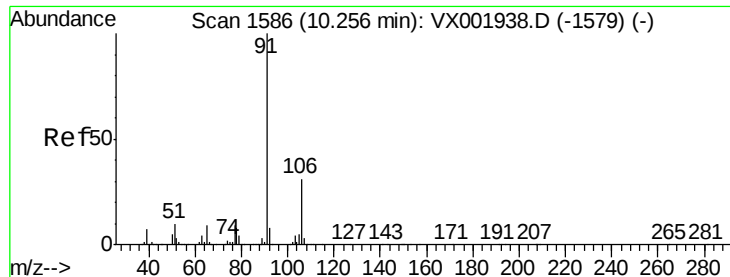


Abundance Ion 116.90 (116.60 to 117.60): VX002076.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002076.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002076.D (-1514) (-)

Time-->



#67

Ethyl Benzene

Concen: 0.21 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :

MSVOA_X

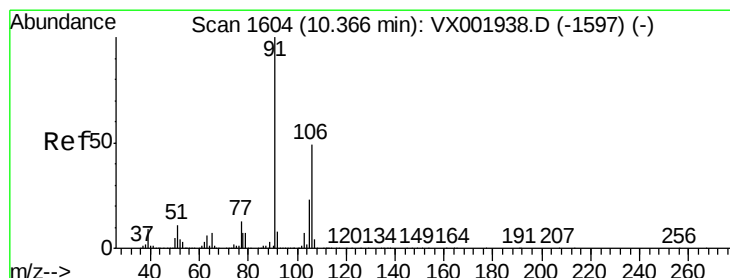
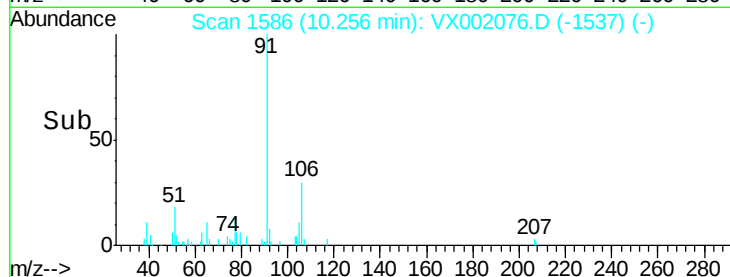
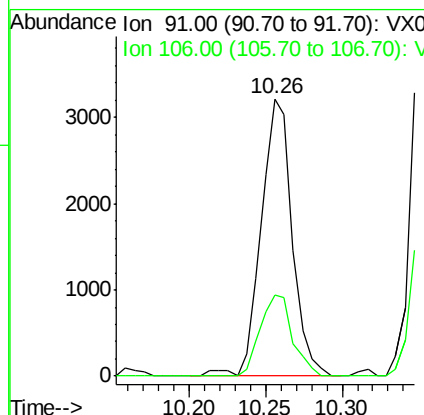
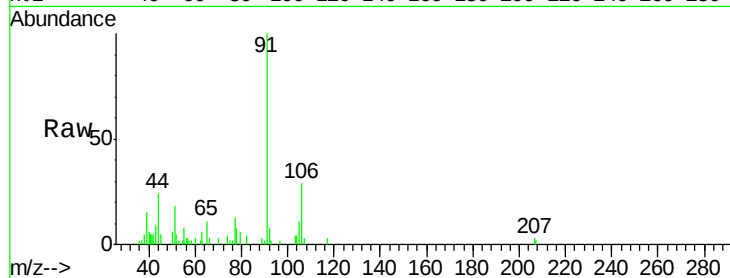
ClientSampleId :

Tot Ion: 91 Resp: 4559

Ion Ratio Lower Upper

91 100

106 29.4 25.0 37.6



#68

m/p-Xylenes

Concen: 1.08 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.01 min

Lab File: VX002076.D

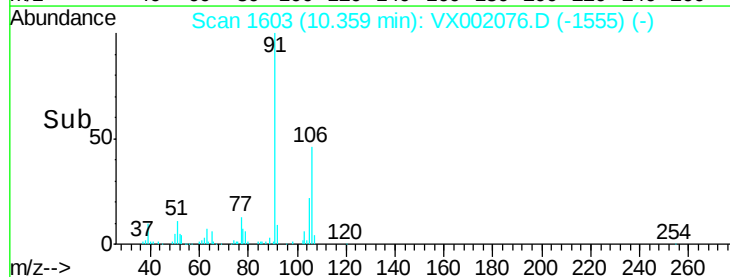
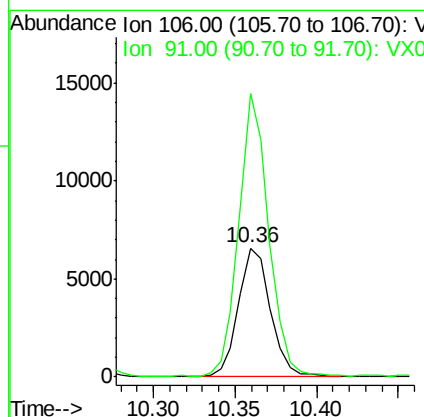
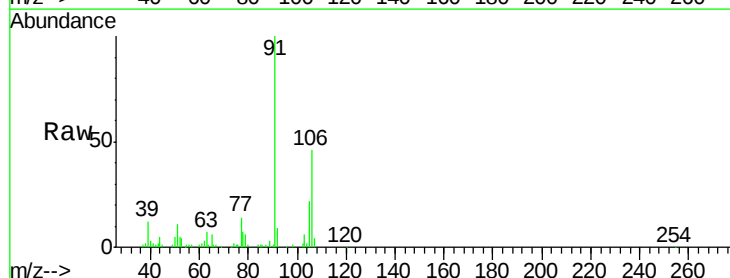
Acq: 27 May 2018 18:38

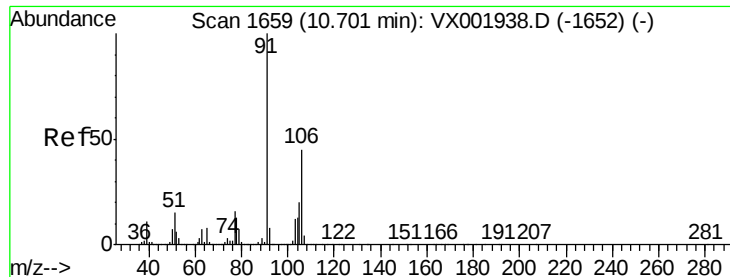
Tgt Ion: 106 Resp: 9050

Ion Ratio Lower Upper

106 100

91 204.7 165.0 247.6

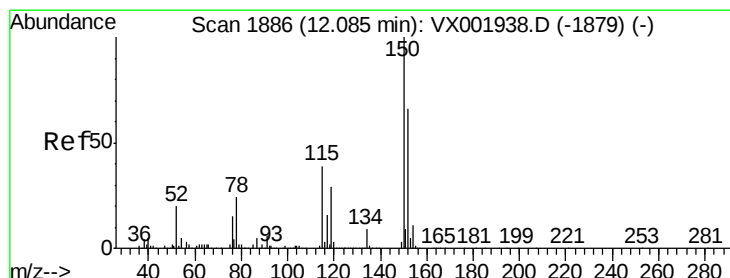
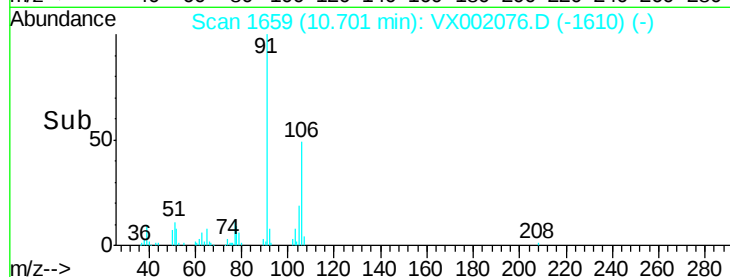
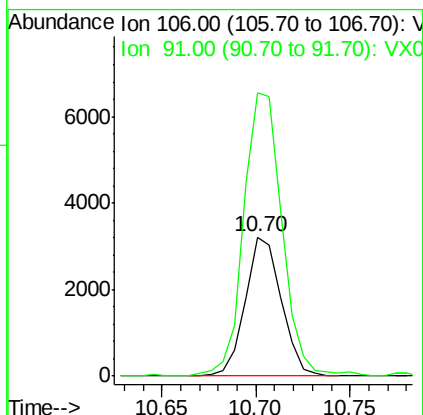
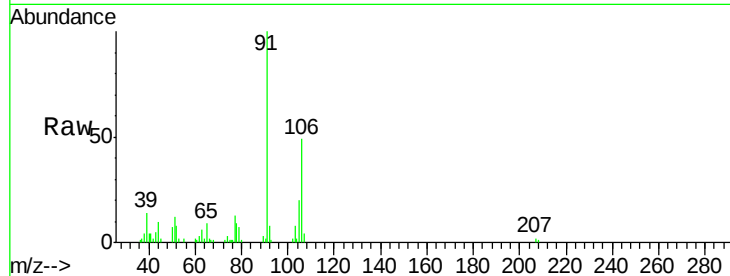




#69
o-Xylene
Concen: 0.51 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

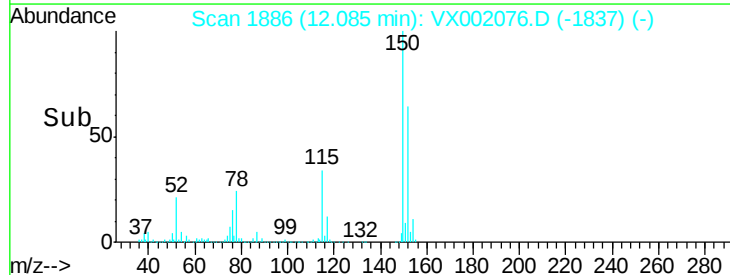
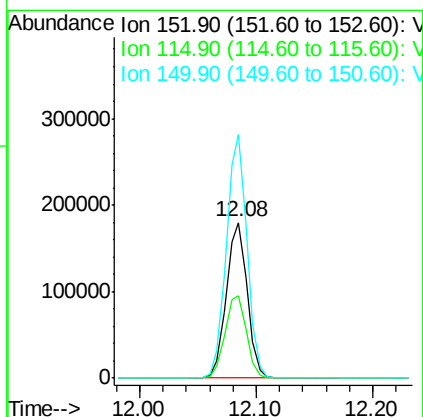
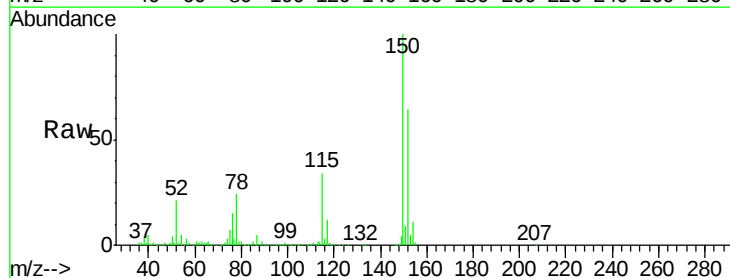
Instrument :
MSVOA_X
ClientSampleId :

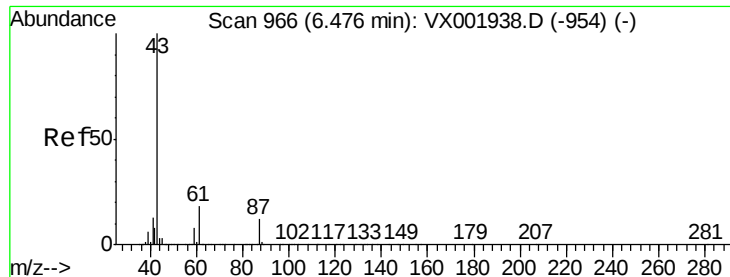
Tot Ion:106 Resp: 4265
Ion Ratio Lower Upper
106 100
91 216.9 108.7 325.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002076.D
Acq: 27 May 2018 18:38

Tgt Ion:152 Resp: 221673
Ion Ratio Lower Upper
152 100
115 54.7 42.3 126.8
150 155.2 0.0 351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 381

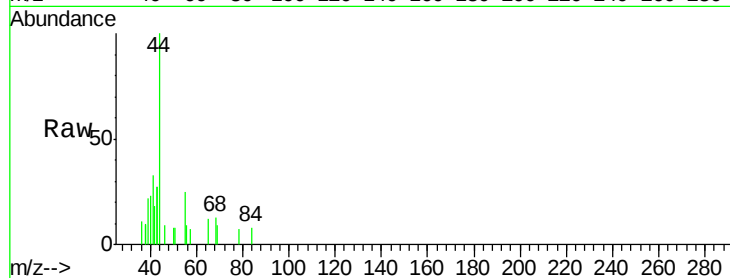
Ion Ratio Lower Upper

43 100

70 5.5 0.1 0.1#

55 24.7 0.1 0.1#

61 0.0 14.5 21.7#

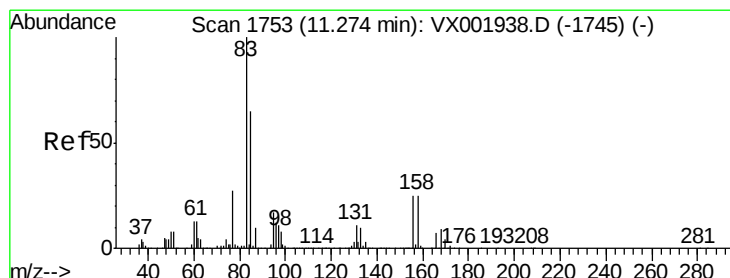
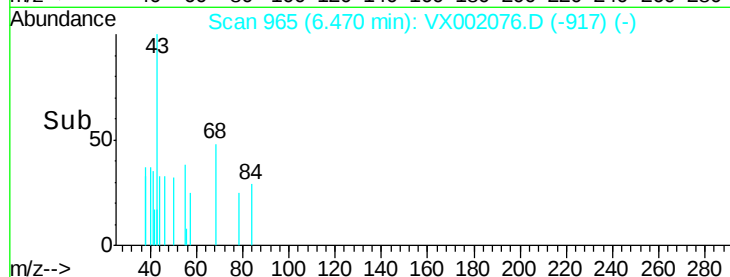
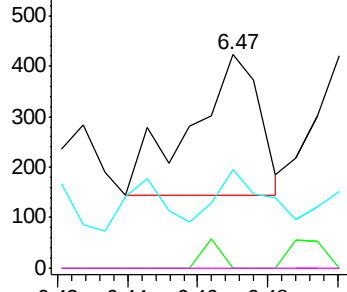


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.28 min Scan# 1754

Delta R.T. 0.01 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

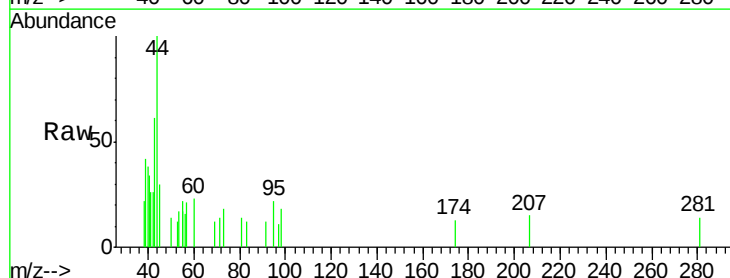
Tgt Ion: 83 Resp: 39

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

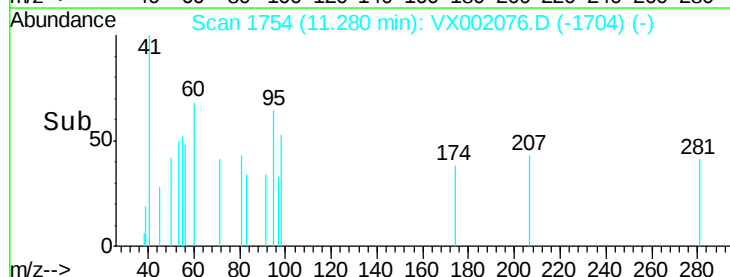
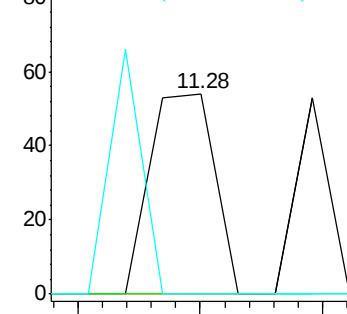
85 61.5 32.6 97.7

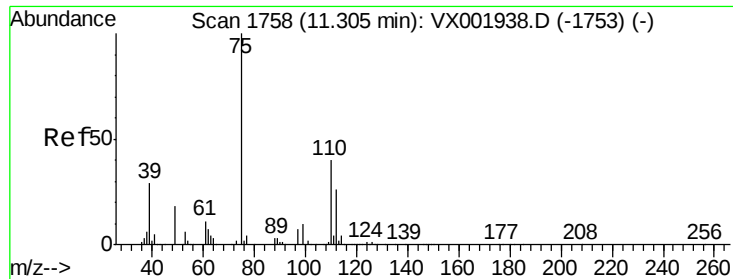


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

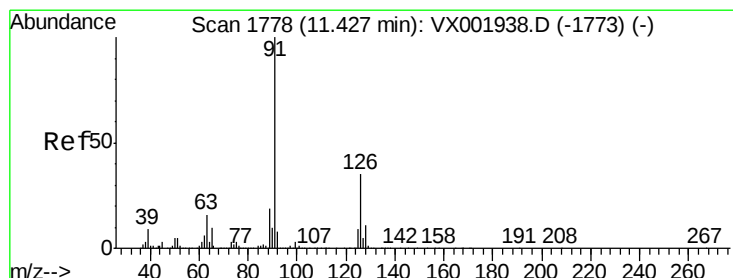
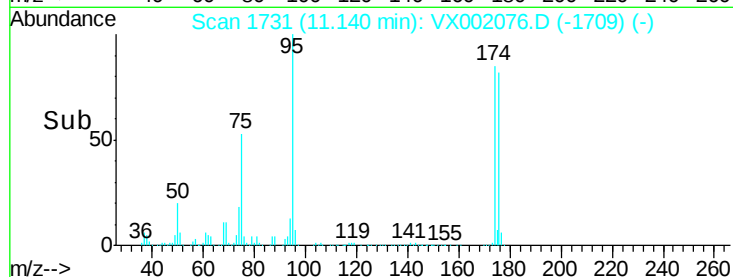
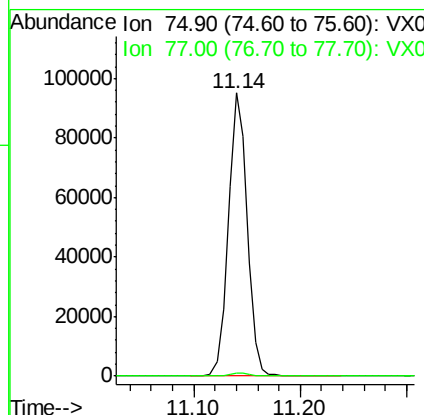
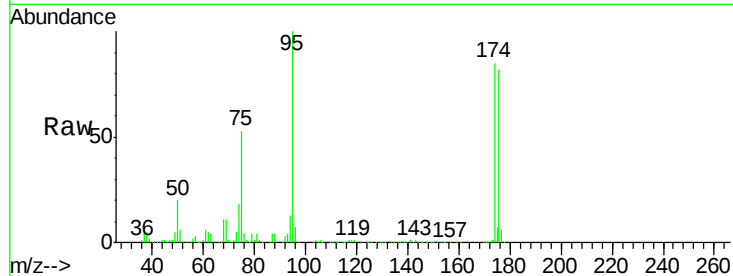




#76
 1,2,3-Trichloropropane
 Concen: 22.08 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.17 min
 Lab File: VX002076.D
 Acq: 27 May 2018 18:38

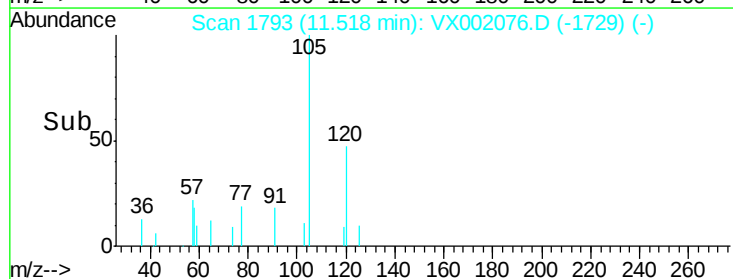
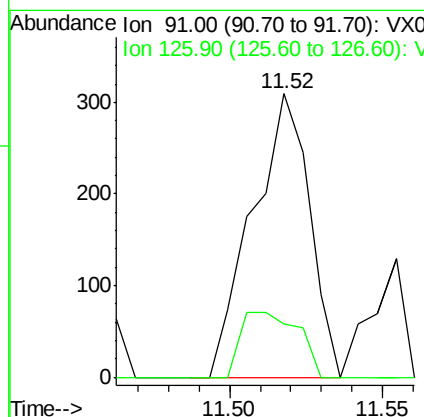
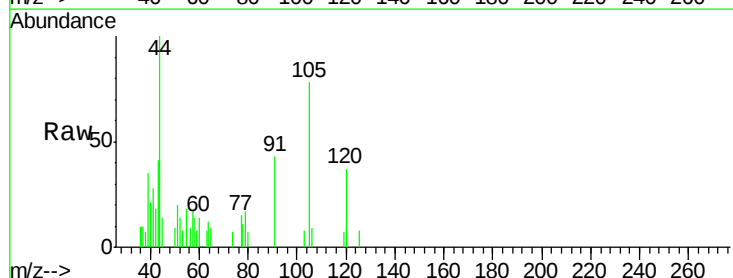
Instrument :
 MSVOA_X
 ClientSampled :

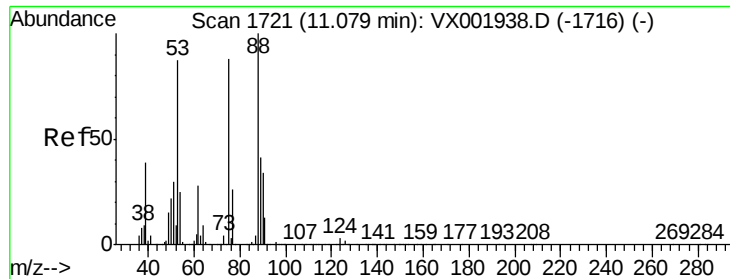
Tot Ion: 75 Resp: 117585
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.52 min Scan# 1793
 Delta R.T. 0.09 min
 Lab File: VX002076.D
 Acq: 27 May 2018 18:38

Tgt Ion: 91 Resp: 400
 Ion Ratio Lower Upper
 91 100
 126 23.3 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 53.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

Instrument :

MSVOA_X

ClientSampleId :

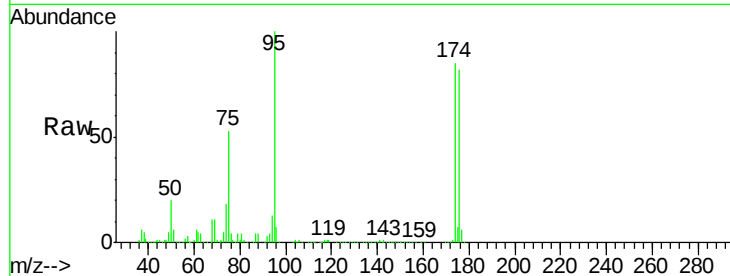
Tot Ion: 75 Resp: 117585

Ion Ratio Lower Upper

75 100

53 0.2 78.0 117.0#

89 0.0 39.4 59.2#

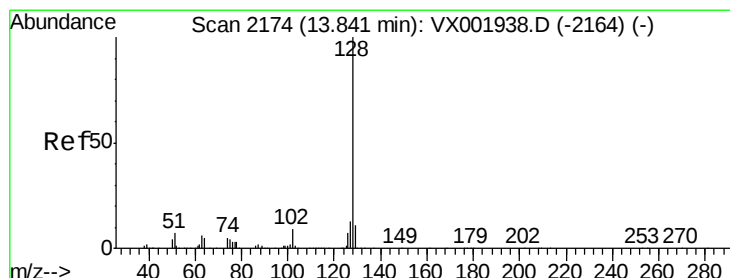
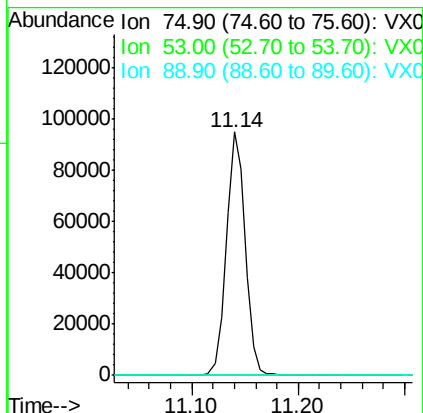
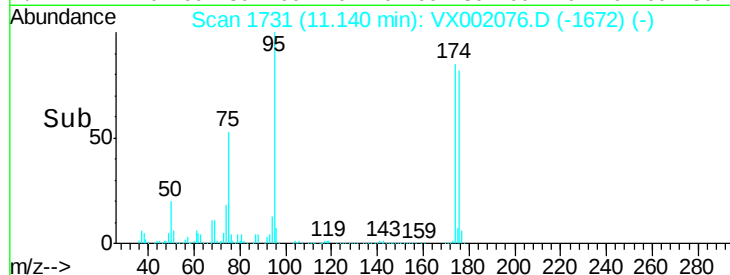


Abundance Ion 74.90 (74.60 to 75.60): VX001938.D (-1716) (-)

Ion 53.00 (52.70 to 53.70): VX001938.D (-1716) (-)

Ion 88.90 (88.60 to 89.60): VX001938.D (-1716) (-)

11.14



#95

Naphthalene

Concen: 25.68 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002076.D

Acq: 27 May 2018 18:38

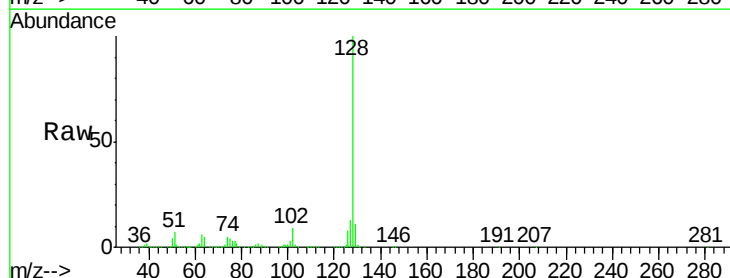
Tgt Ion: 128 Resp: 514176

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): VX001938.D (-2164) (-)

Ion 127.00 (126.70 to 127.70): VX001938.D (-2164) (-)

Ion 129.00 (128.70 to 129.70): VX001938.D (-2164) (-)

13.84

