

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002070.D
 Acq On : 27 May 2018 15:59
 Operator : JC/MD
 Sample : J3104-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:56:30 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	314194	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	439011	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	396074	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	215861	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	205624	36.61	ug/l	0.00
Spiked Amount			Recovery	=	73.22%	
35) Dibromofluoromethane	5.51	113	159543	36.34	ug/l	0.00
Spiked Amount			Recovery	=	72.68%	
50) Toluene-d8	8.72	98	625017	39.32	ug/l	0.00
Spiked Amount			Recovery	=	78.64%	
62) 4-Bromofluorobenzene	11.14	95	222531	35.79	ug/l	0.00
Spiked Amount			Recovery	=	71.58%	

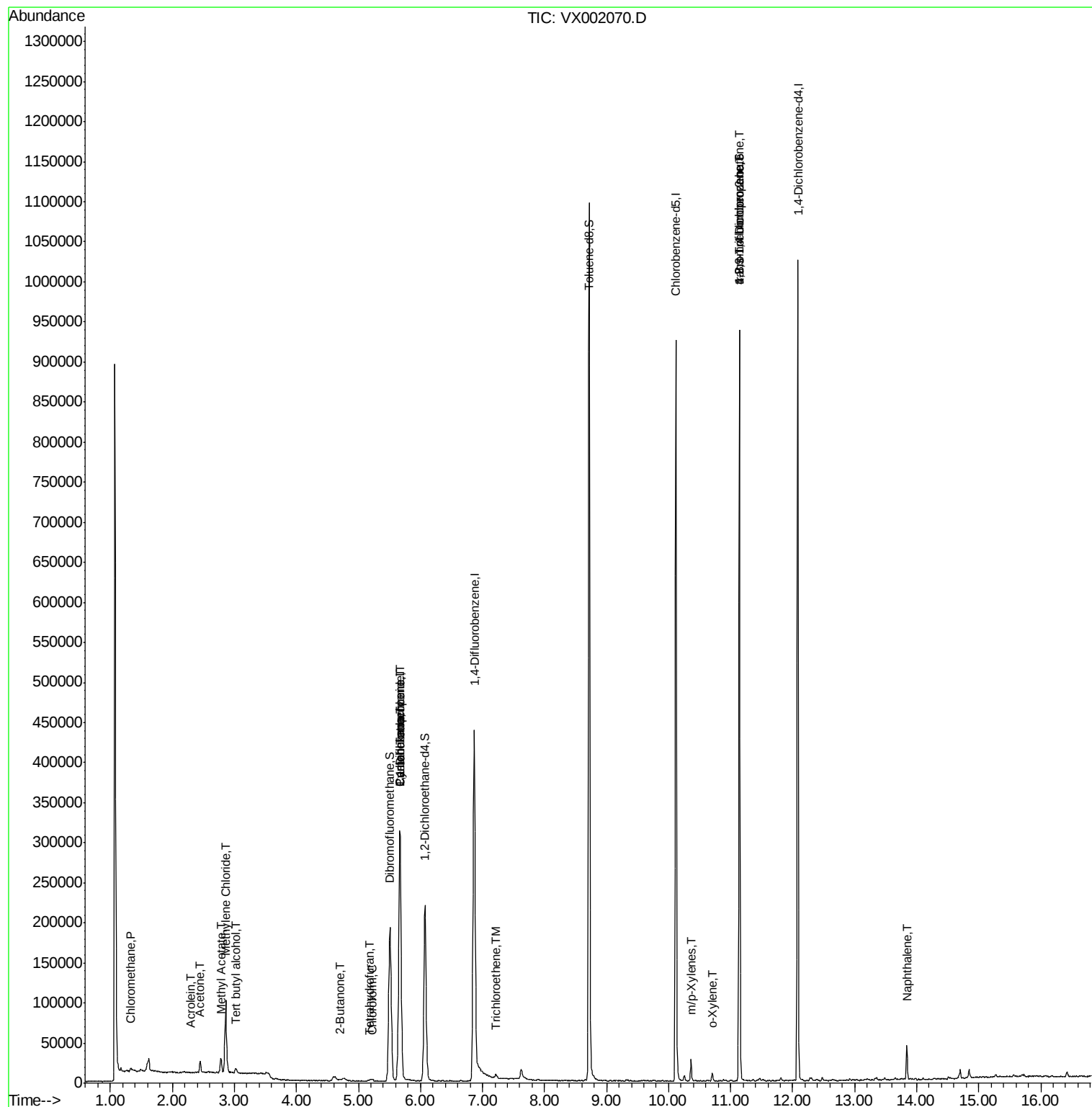
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	131	Below Cal	#	41
3) Chloromethane	1.33	50	4206	0.87	ug/l	# 87
5) Bromomethane	1.65	94	976	Below Cal	#	79
11) Tert butyl alcohol	3.02	59	3753	3.40	ug/l	# 75
13) Acrolein	2.30	56	261	0.55	ug/l	# 1
16) Acetone	2.45	43	16011	7.39	ug/l	96
18) Methyl Acetate	2.78	43	22190	3.19	ug/l	96
20) Methylene Chloride	2.86	84	41107	9.61	ug/l	97
21) trans-1,2-Dichloroethene	3.15	96	362	Below Cal	#	6
25) 2-Butanone	4.71	43	2585	0.65	ug/l	# 89
28) Bromochloromethane	5.02	49	20	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	873	0.34	ug/l	# 79
30) Chloroform	5.23	83	1808	0.22	ug/l	95
31) Cyclohexane	5.67	56	6508	0.84	ug/l	# 11
36) 1,1-Dichloropropene	5.67	75	22281	3.65	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	29416	4.13	ug/l	# 15
41) Methacrylonitrile	5.06	41	132	Below Cal	#	73
44) Trichloroethene	7.22	130	1412	0.27	ug/l	92
68) m/p-Xylenes	10.37	106	5868	0.70	ug/l	100
69) o-Xylene	10.71	106	2080	0.25	ug/l	92
74) N-amyl acetate	6.48	43	377	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.29	83	82	Below Cal	#	81
76) 1,2,3-Trichloropropane	11.14	75	117870	22.73	ug/l	# 33
79) 2-Chlorotoluene	11.44	91	460	Below Cal		71
81) trans-1,4-Dichloro-2-buten	11.14	75	117870	54.64	ug/l	# 10
95) Naphthalene	13.84	128	25198	1.29	ug/l	99

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

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Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
Quant Title : SW846 8260
QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

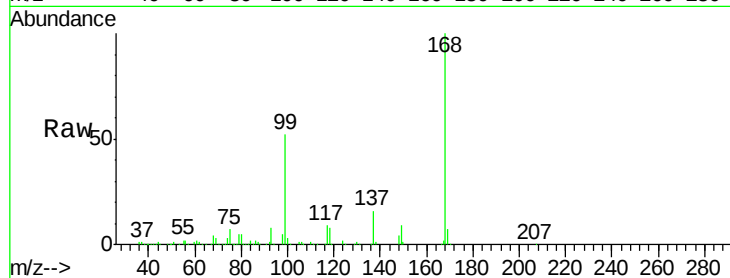
ClientSampleId :

Tot Ion:168 Resp: 314194

Ion Ratio Lower Upper

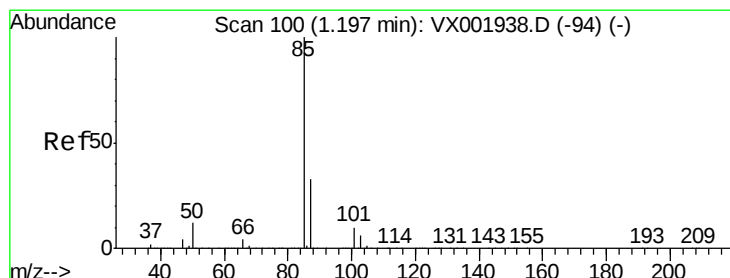
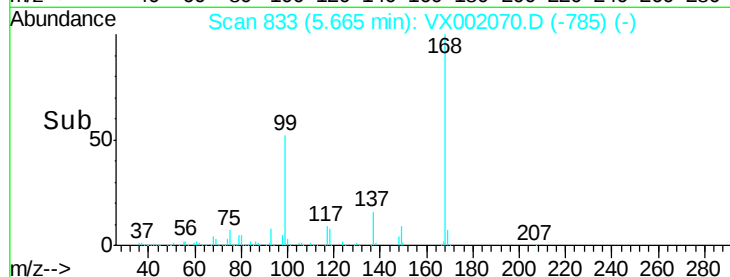
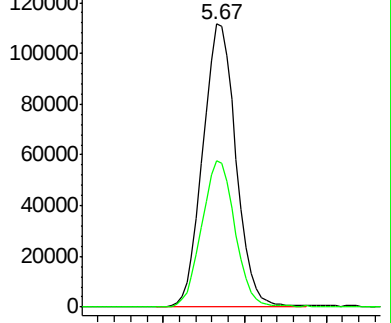
168 100

99 51.5 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX002070.D

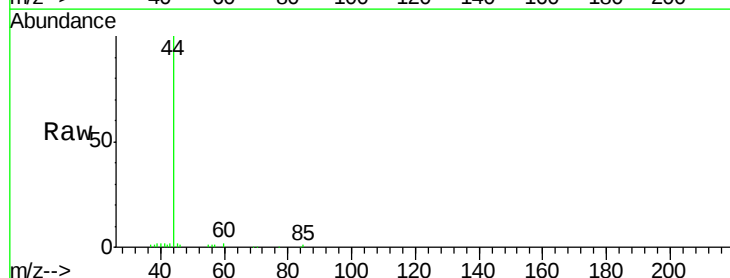
Acq: 27 May 2018 15:59

Tgt Ion: 85 Resp: 131

Ion Ratio Lower Upper

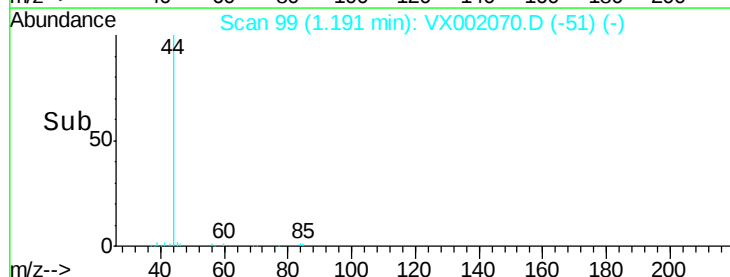
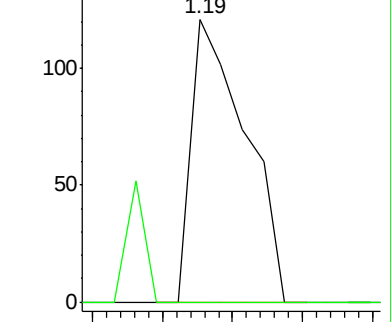
85 100

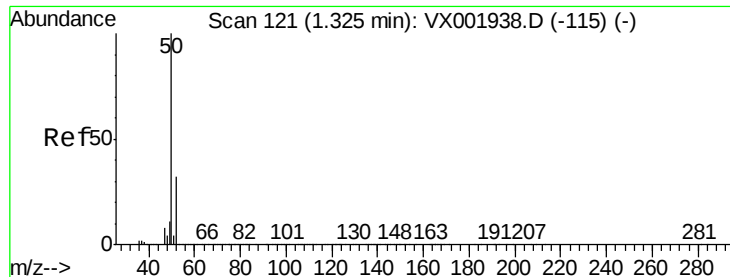
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.87 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

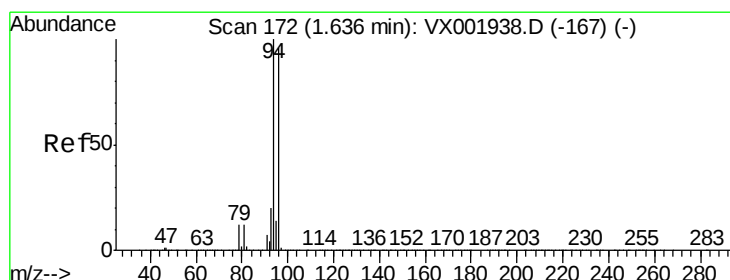
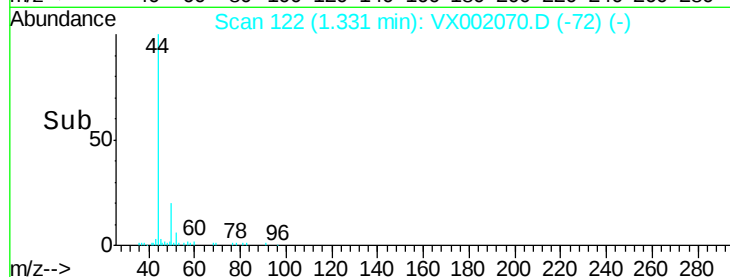
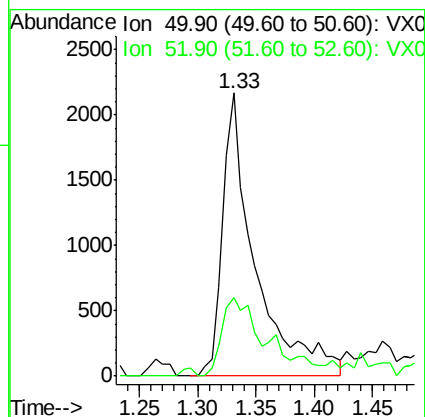
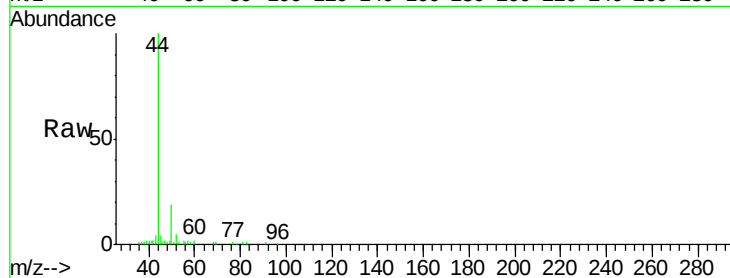
ClientSampleId :

Tot Ion: 50 Resp: 4206

Ion Ratio Lower Upper

50 100

52 25.0 26.0 39.0#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002070.D

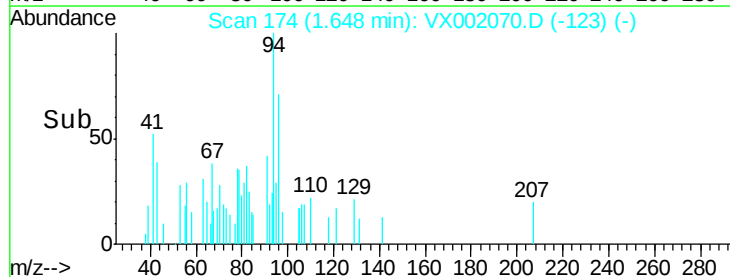
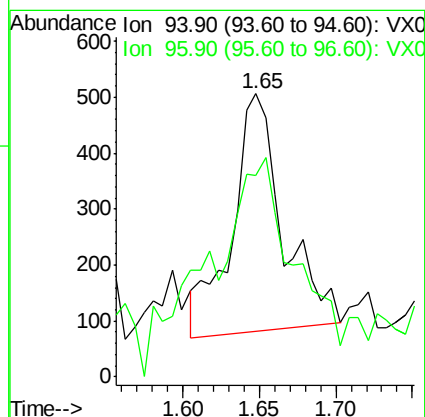
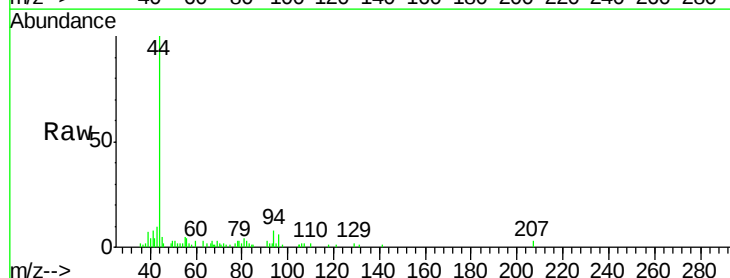
Acq: 27 May 2018 15:59

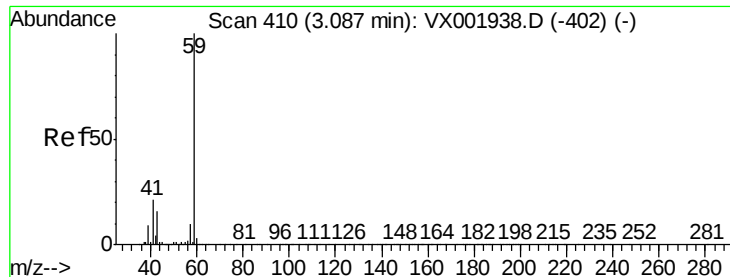
Tgt Ion: 94 Resp: 976

Ion Ratio Lower Upper

94 100

96 74.3 75.9 113.9#

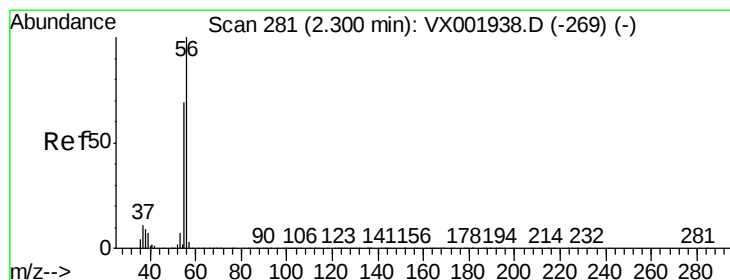
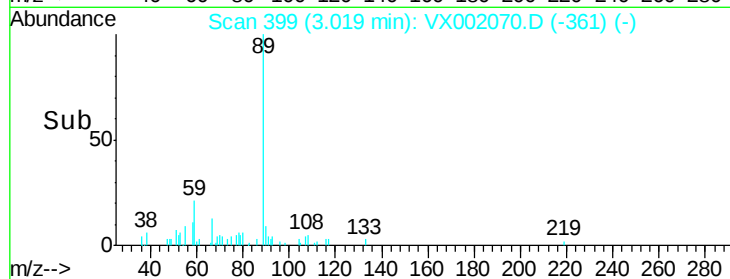
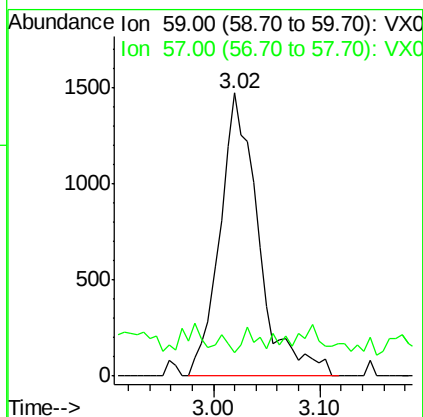
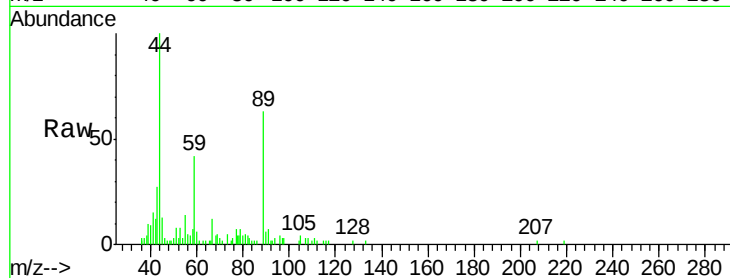




#11
Tert butyl alcohol
Concen: 3.40 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.07 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

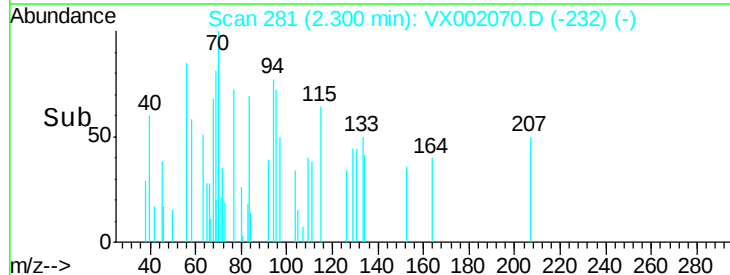
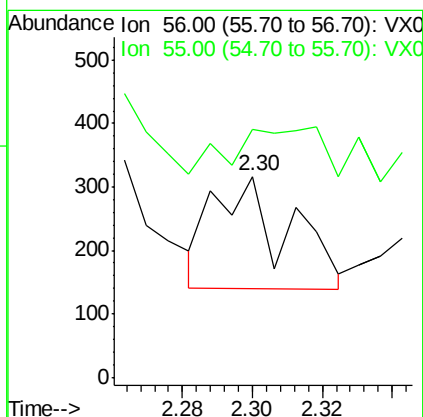
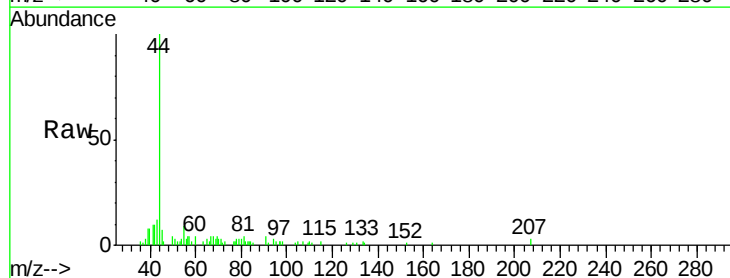
Instrument :
MSVOA_X
ClientSampleId :

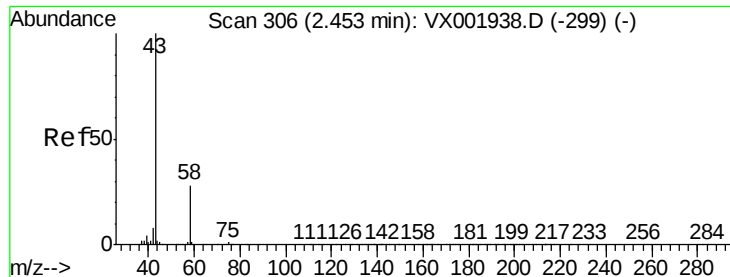
Tot Ion: 59 Resp: 3753
Ion Ratio Lower Upper
59 100
57 1.7 8.9 13.3#



#13
Acrolein
Concen: 0.55 ug/l
RT: 2.30 min Scan# 281
Delta R.T. -0.00 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

Tgt Ion: 56 Resp: 261
Ion Ratio Lower Upper
56 100
55 196.2 56.8 85.2#





#16

Acetone

Concen: 7.39 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

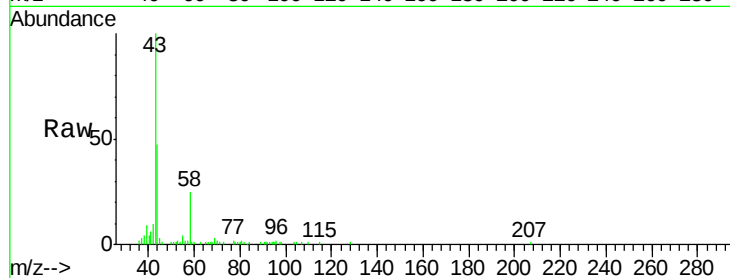
ClientSampleId :

Tot Ion: 43 Resp: 16011

Ion Ratio Lower Upper

43 100

58 25.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

12000

10000

8000

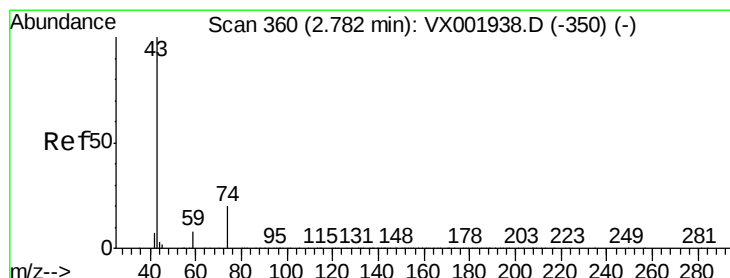
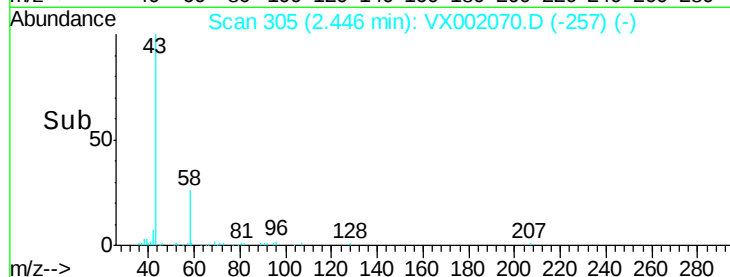
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 3.19 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002070.D

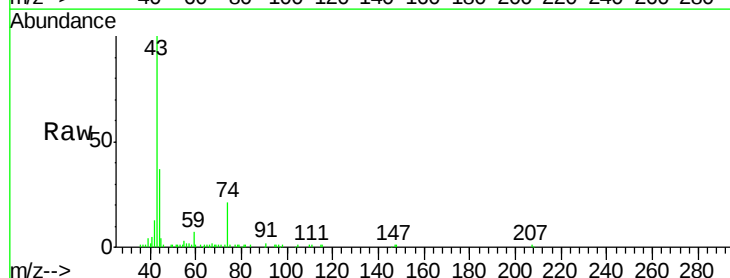
Acq: 27 May 2018 15:59

Tgt Ion: 43 Resp: 22190

Ion Ratio Lower Upper

43 100

74 22.6 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

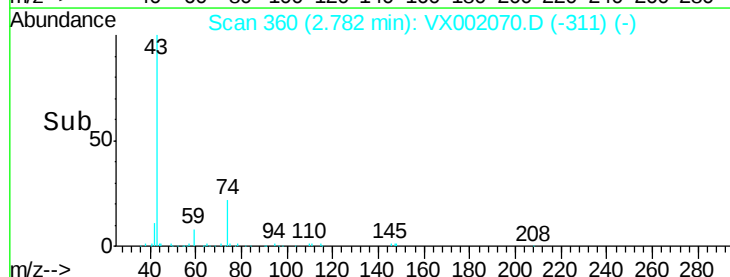
15000

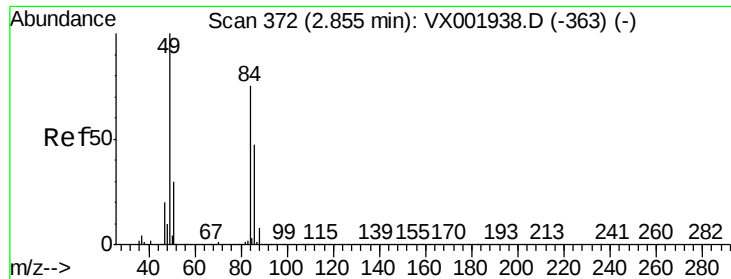
10000

5000

0

Time-->

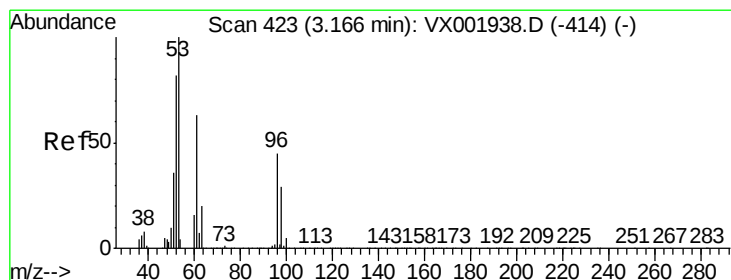
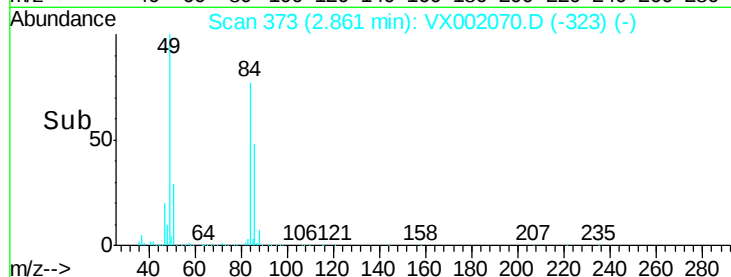
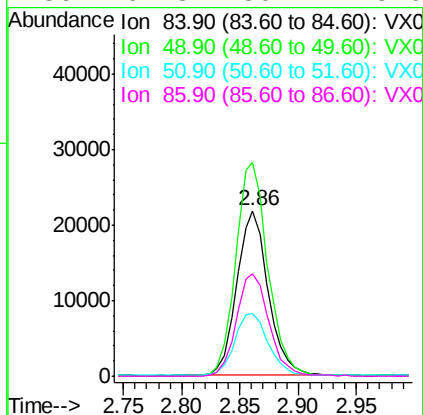
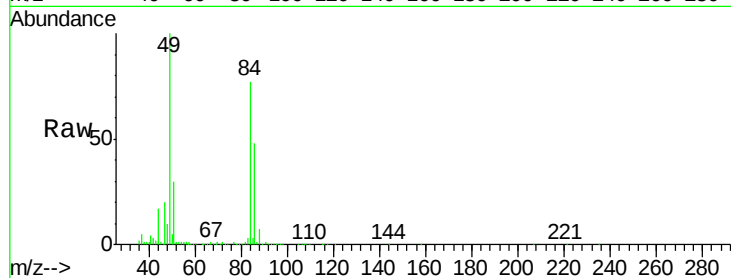




#20
Methvlene Chloride
Concen: 9.61 ua/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

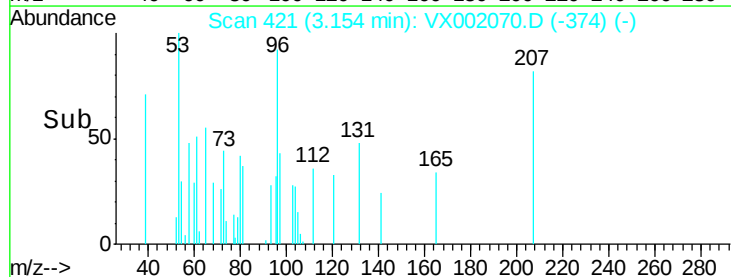
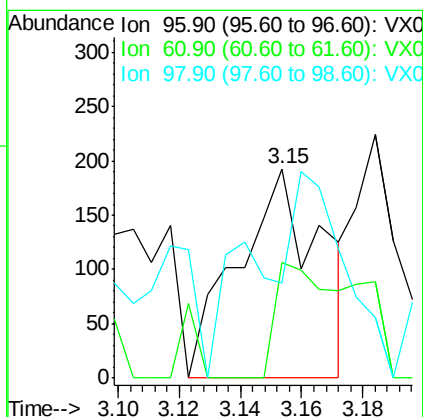
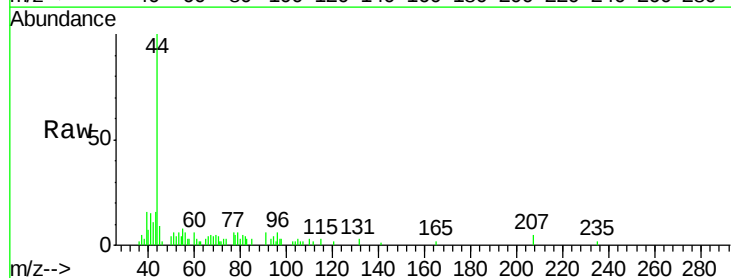
Instrument :
MSVOA_X
ClientSampleId :

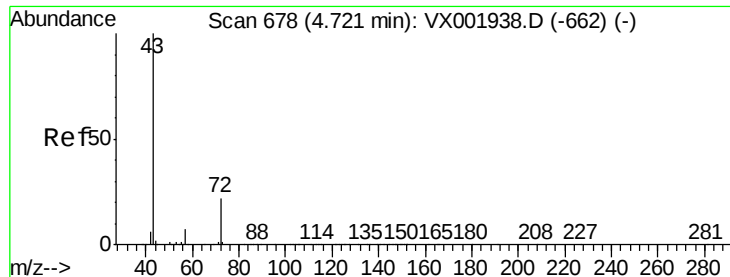
Tot Ion:	84	Resp:	41107
Ion	Ratio	Lower	Upper
84	100		
49	129.8	107.2	160.8
51	37.6	32.4	48.6
86	62.3	50.4	75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.15 min Scan# 421
Delta R.T. -0.01 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

Tgt Ion:	96	Resp:	362
Ion	Ratio	Lower	Upper
96	100		
61	19.2	113.3	169.9#
98	0.0	51.7	77.5#





#25

2-Butanone

Concen: 0.65 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

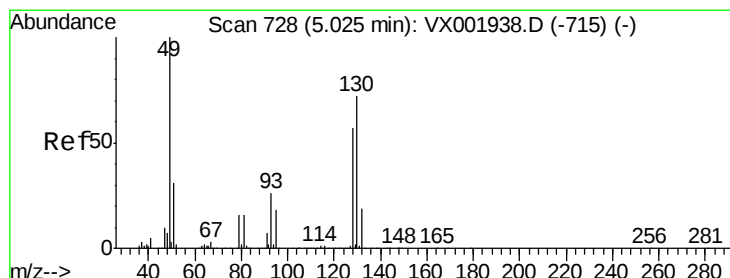
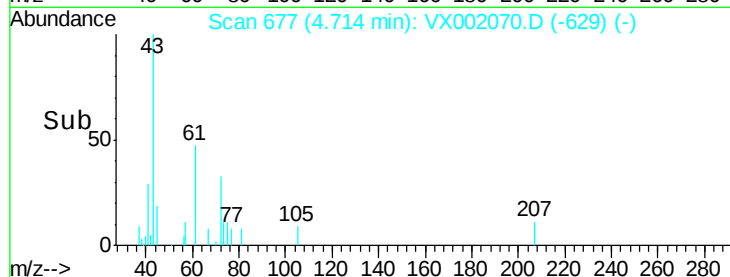
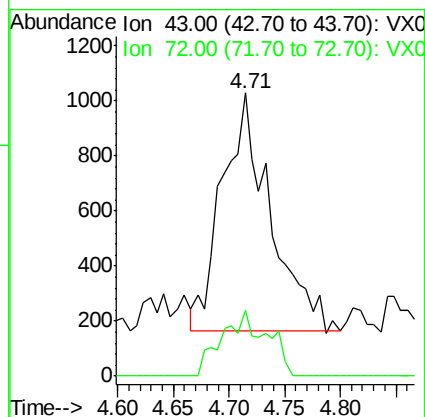
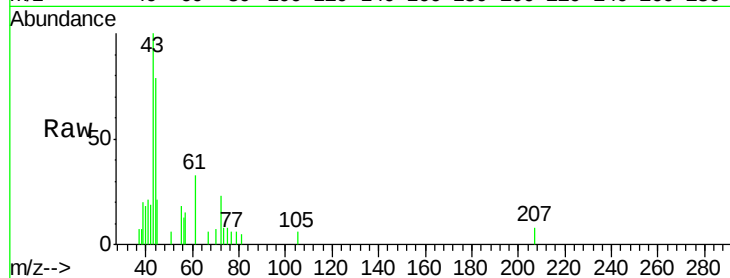
ClientSampleId :

Tot Ion: 43 Resp: 2585

Ion Ratio Lower Upper

43 100

72 27.7 17.9 26.9#



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

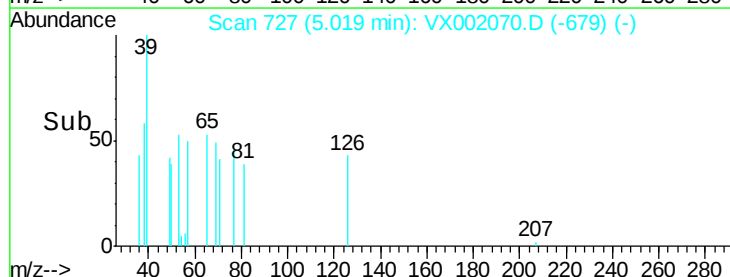
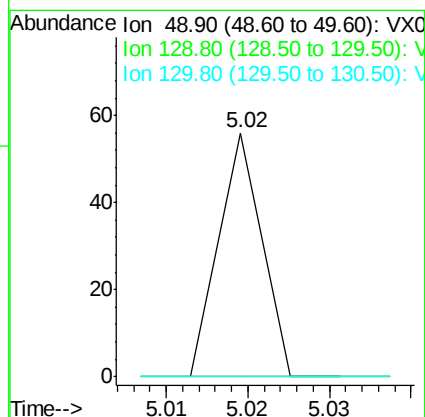
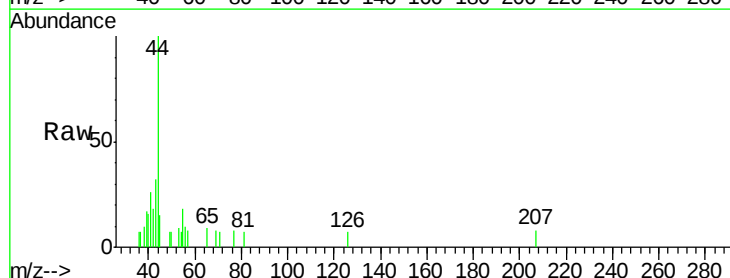
Tgt Ion: 49 Resp: 20

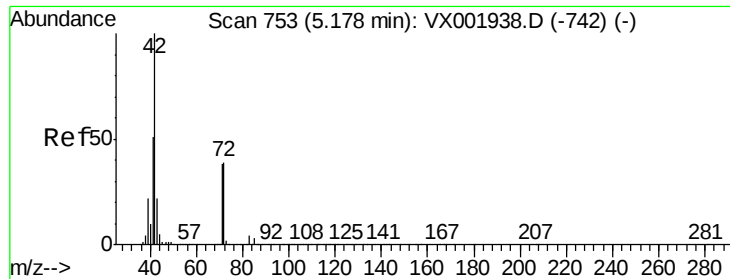
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 59.4 89.2#





#29

Tetrahydrofuran

Concen: 0.34 ug/l

RT: 5.18 min Scan# 753

Delta R.T. -0.00 min

Lab File: VX002070.D

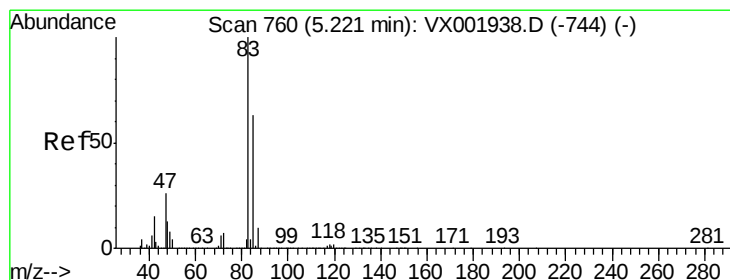
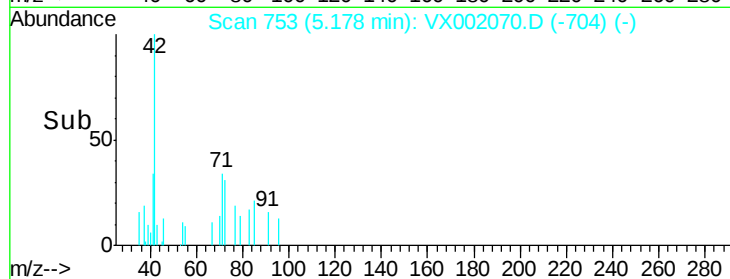
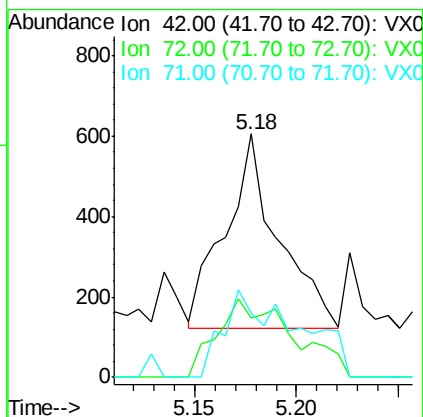
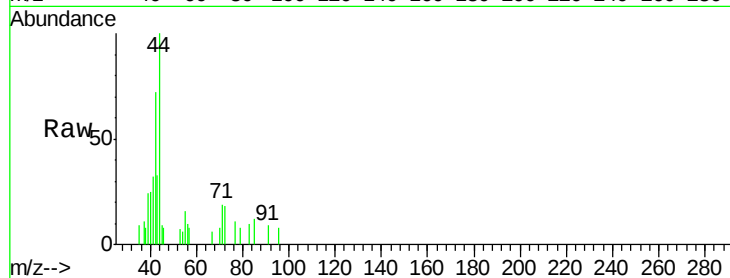
Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	42	Resp:	873
Ion	Ratio	Lower	Upper
42	100		
72	58.0	31.4	47.0#
71	30.6	29.5	44.3



#30

Chloroform

Concen: 0.22 ug/l

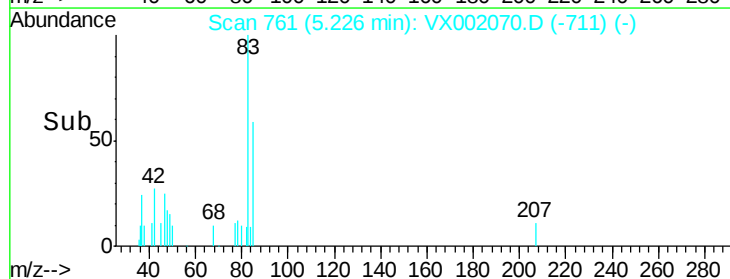
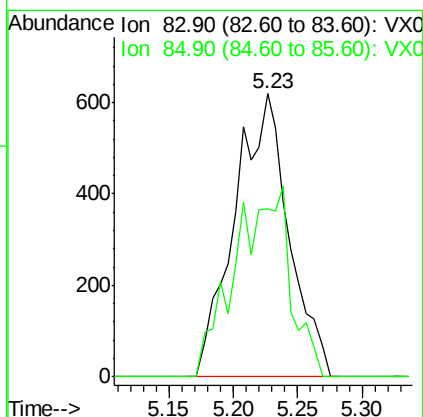
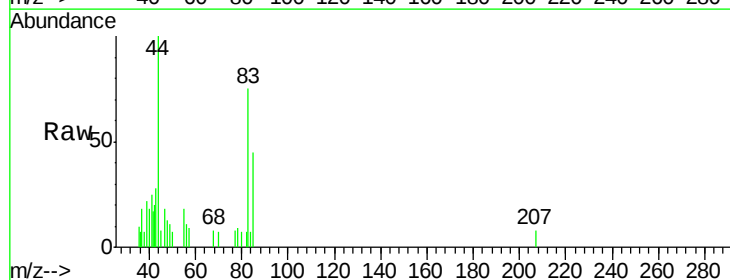
RT: 5.23 min Scan# 761

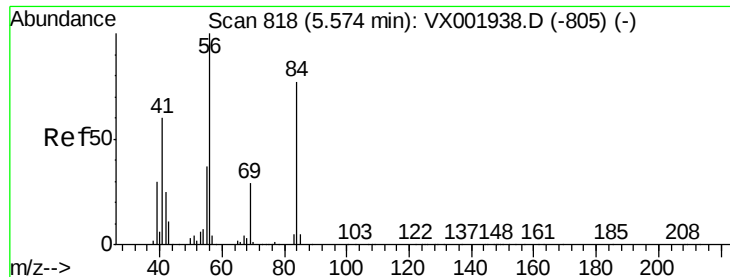
Delta R.T. 0.01 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Tgt Ion:	83	Resp:	1808
Ion	Ratio	Lower	Upper
83	100		
85	59.5	50.9	76.3

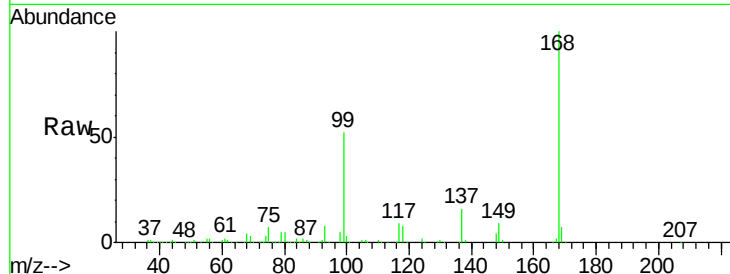




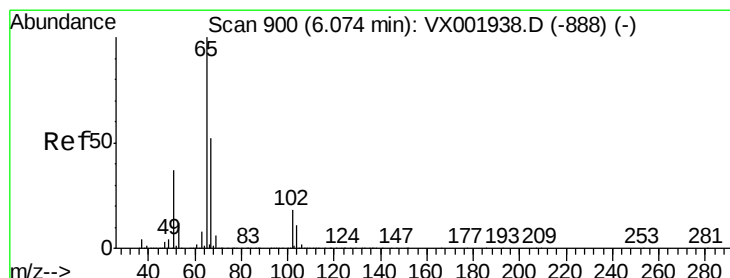
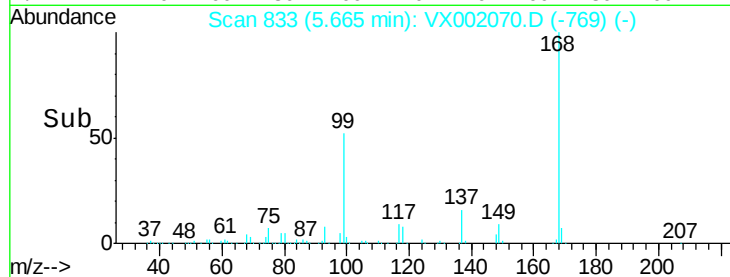
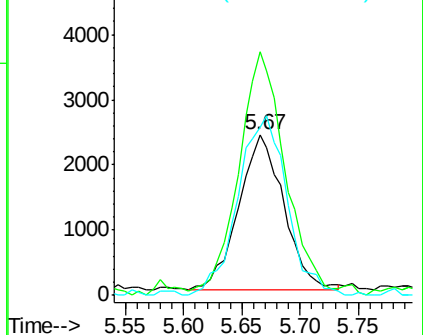
#31
Cyclohexane
Concen: 0.84 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 6508
Ion Ratio Lower Upper
56 100
69 153.4 23.1 34.7#
84 107.9 62.0 93.0#

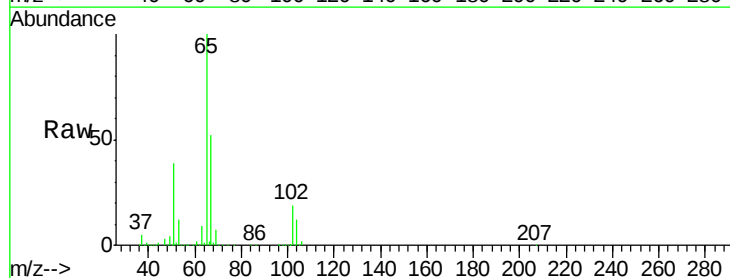


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

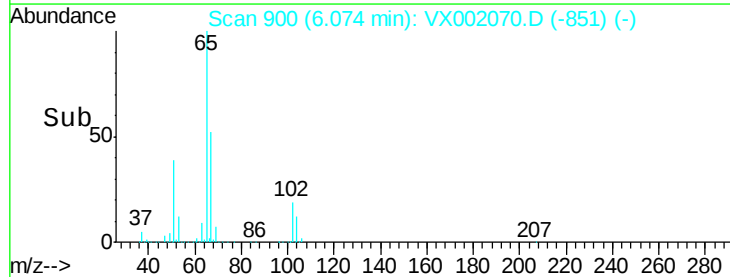
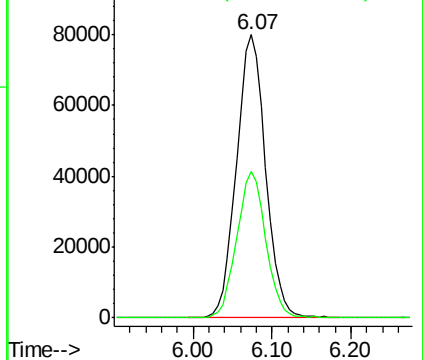


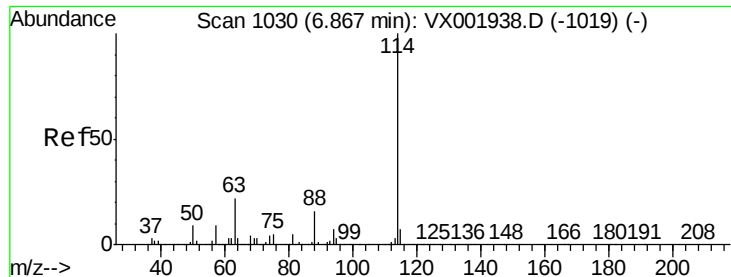
#33
1,2-Dichloroethane-d4
Concen: 36.61 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

Tgt Ion: 65 Resp: 205624
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

ClientSampleId :

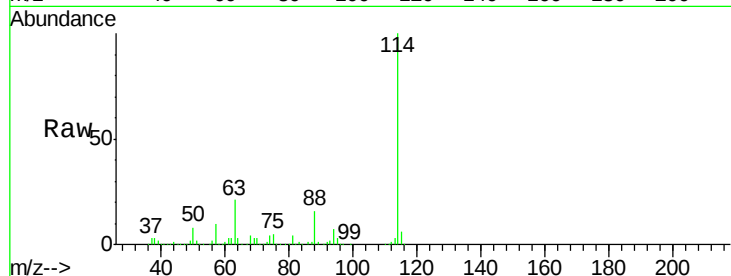
Tot Ion:114 Resp: 439011

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

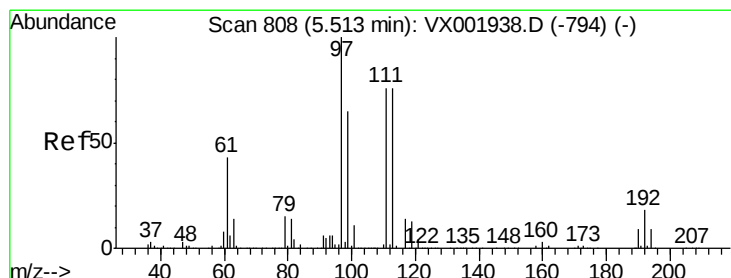
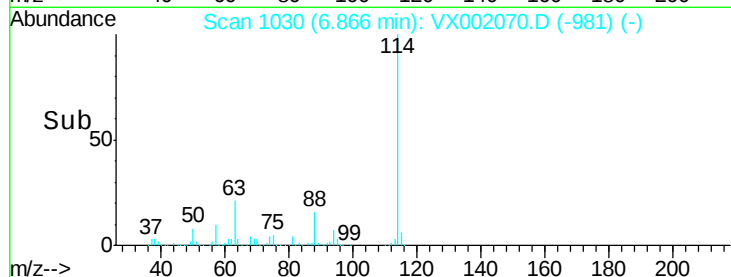
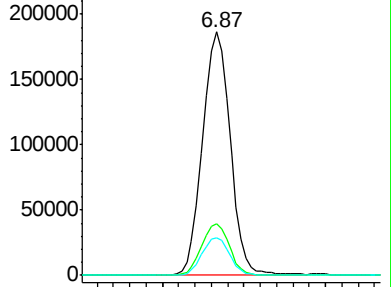
88 15.5 0.0 31.6



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



#35

Dibromofluoromethane

Concen: 36.34 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

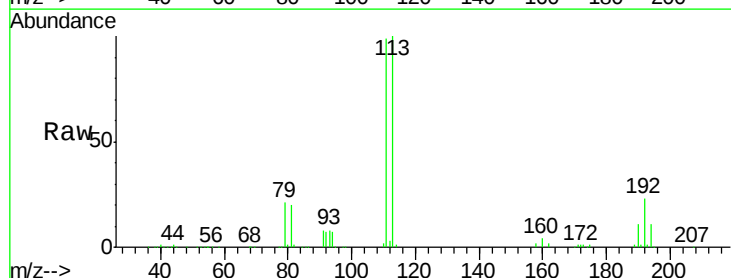
Tgt Ion:113 Resp: 159543

Ion Ratio Lower Upper

113 100

111 101.6 82.0 123.0

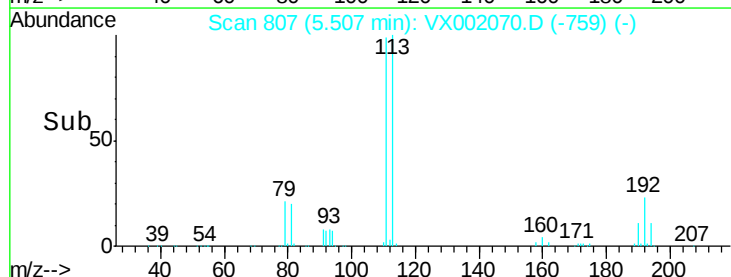
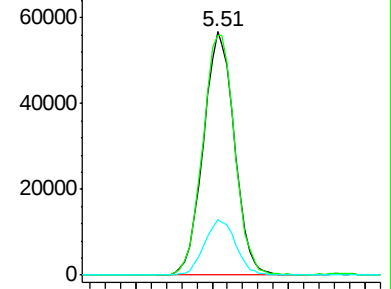
192 23.1 18.9 28.3

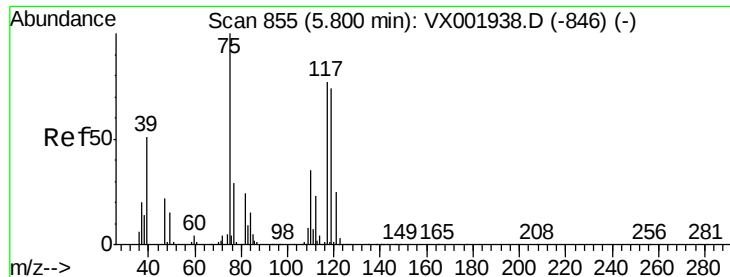


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

ClientSampled :

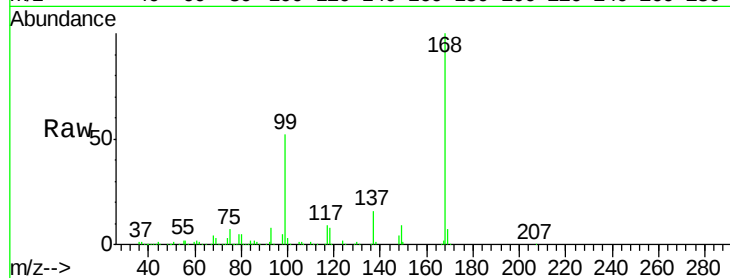
Tot Ion: 75 Resp: 22281

Ion Ratio Lower Upper

75 100

110 9.4 17.4 52.2#

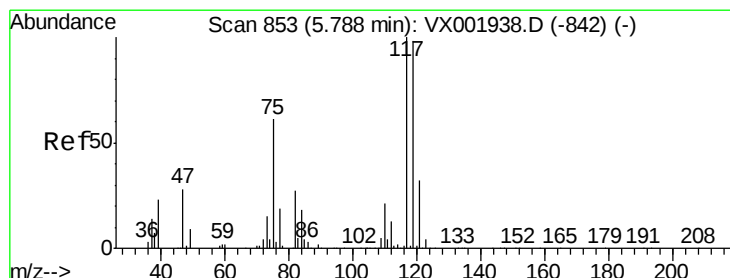
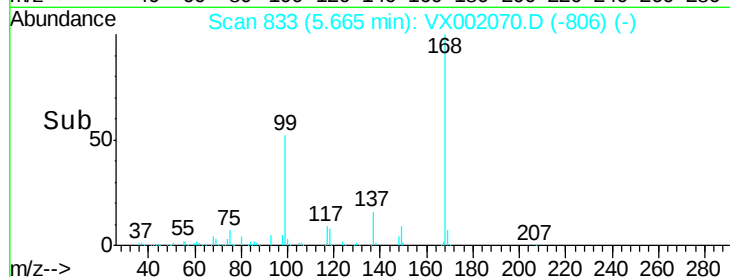
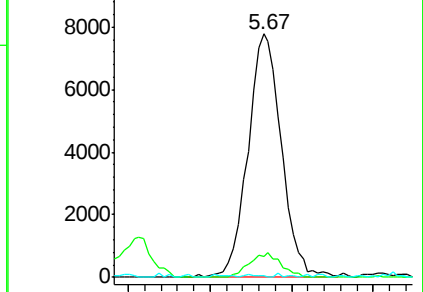
77 0.3 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX001938.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX001938.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX001938.D (-846) (-)



#38

Carbon Tetrachloride

Concen: 4.13 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

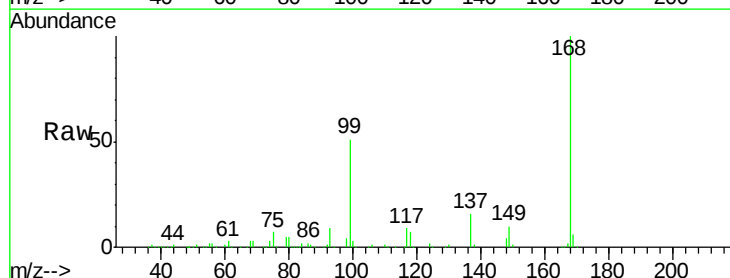
Tgt Ion: 117 Resp: 29416

Ion Ratio Lower Upper

117 100

119 4.7 78.5 117.7#

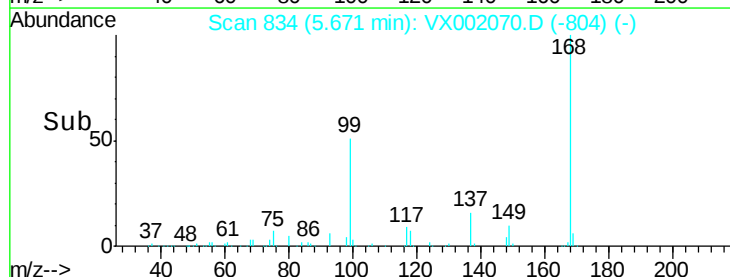
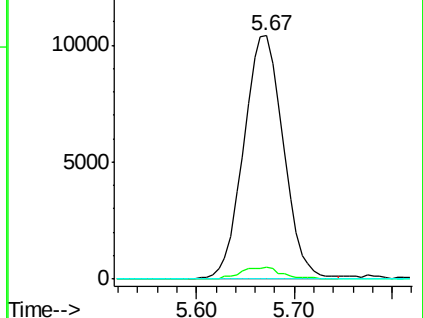
121 0.0 25.5 38.3#

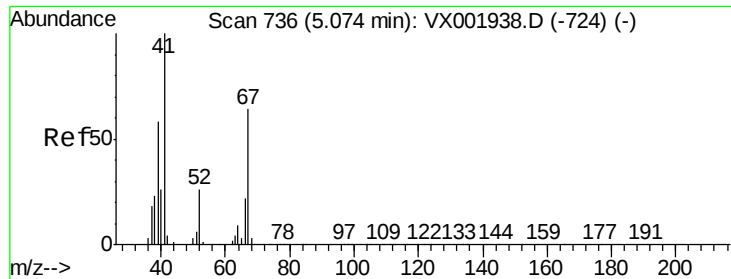


Abundance Ion 116.80 (116.50 to 117.50): VX001938.D (-842) (-)

Ion 118.80 (118.50 to 119.50): VX001938.D (-842) (-)

Ion 120.80 (120.50 to 121.50): VX001938.D (-842) (-)

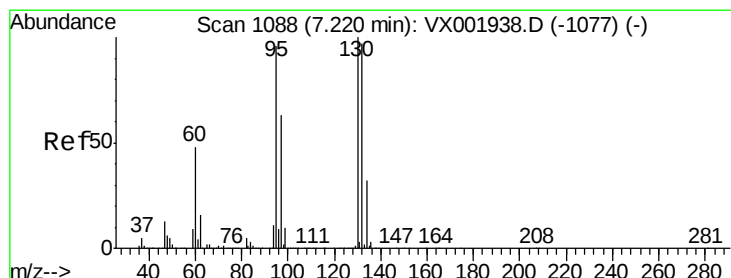
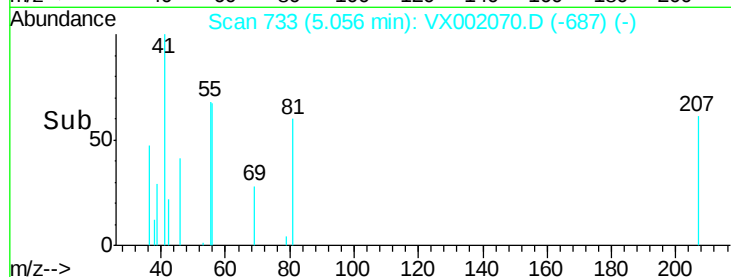
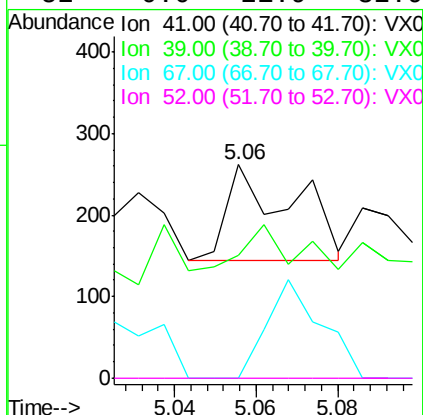
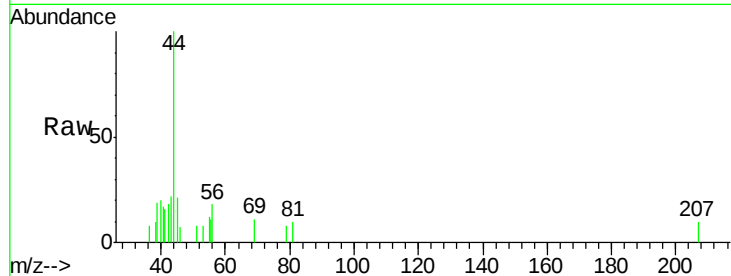




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.06 min Scan# 733
Delta R.T. -0.02 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

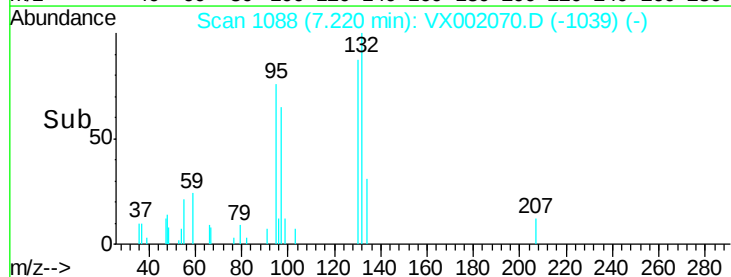
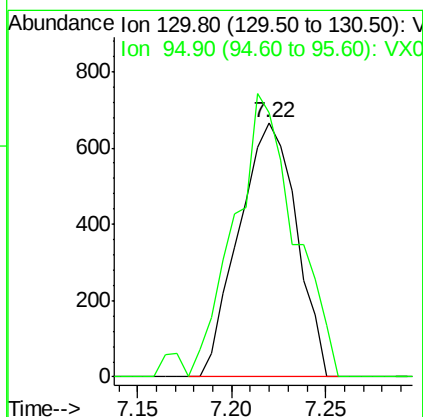
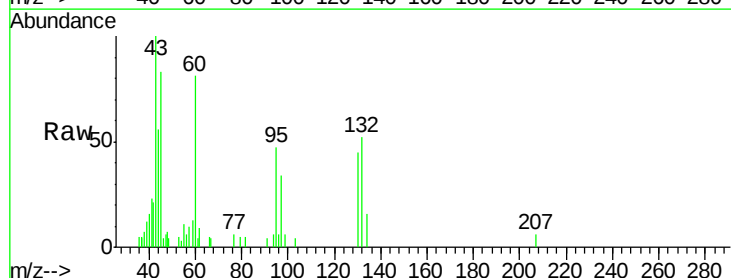
Instrument :
MSVOA_X
ClientSampled :

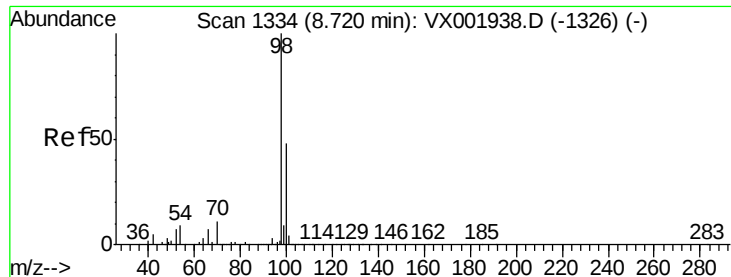
Tot Ion:	41	Resp:	132
Ion	Ratio	Lower	Upper
41	100		
39	67.4	46.0	69.0
67	84.8	50.6	75.8#
52	0.0	21.9	32.9#



#44
Trichloroethene
Concen: 0.27 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

Tgt Ion:	130	Resp:	1412
Ion	Ratio	Lower	Upper
130	100		
95	103.9	0.0	192.0

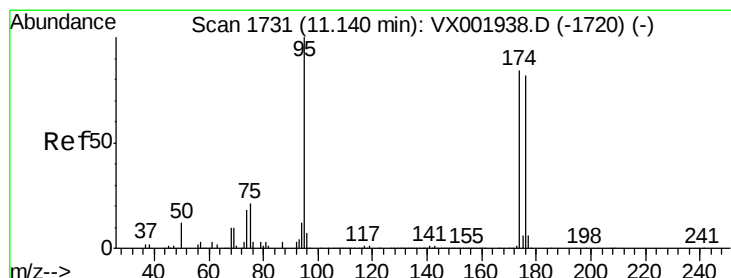
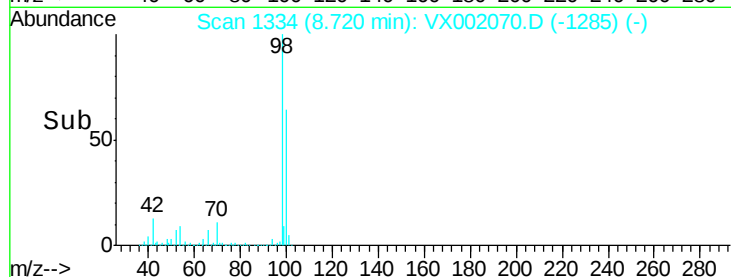
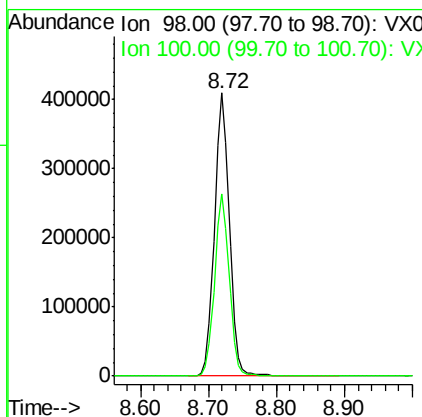
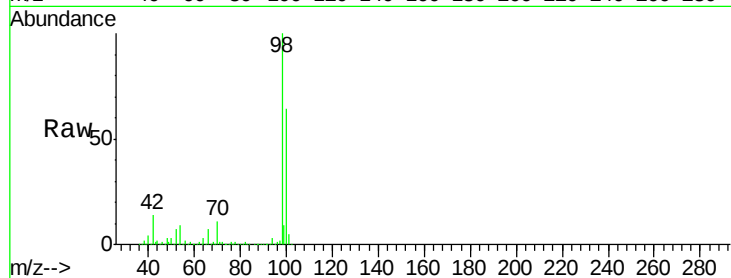




#50
Toluene-d8
Concen: 39.32 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

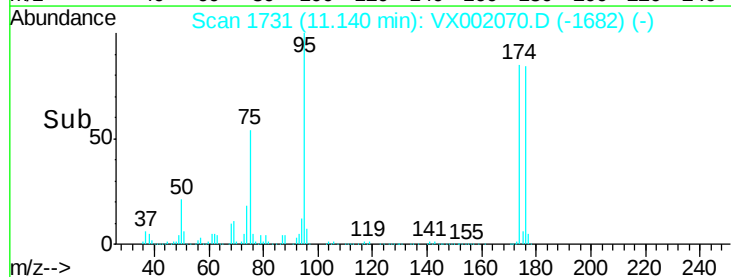
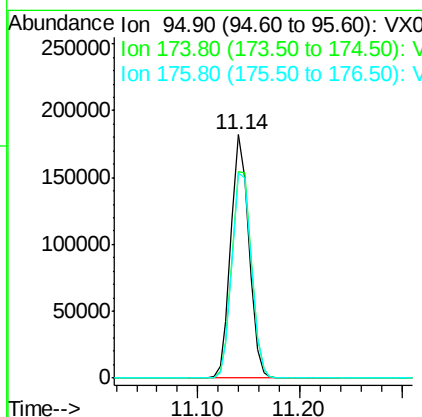
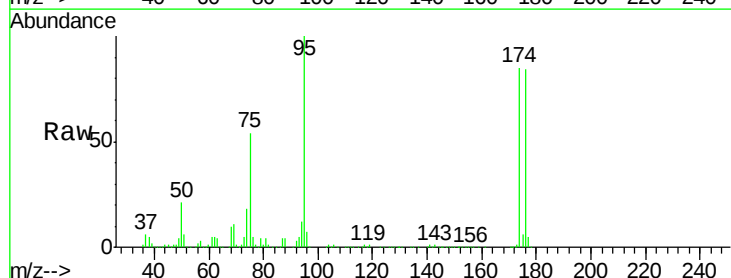
Instrument :
MSVOA_X
ClientSampleId :

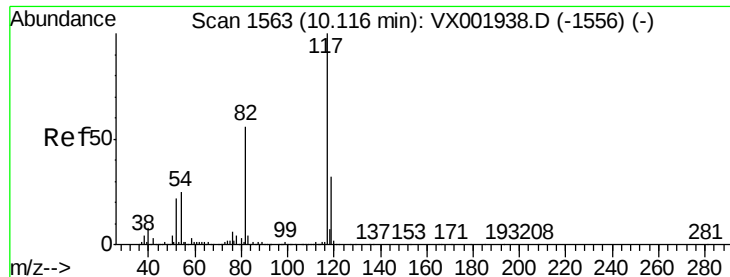
Tot Ion: 98 Resp: 625017
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



#62
4-Bromofluorobenzene
Concen: 35.79 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

Tgt Ion: 95 Resp: 222531
Ion Ratio Lower Upper
95 100
174 92.1 0.0 178.8
176 90.2 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: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

ClientSampleId :

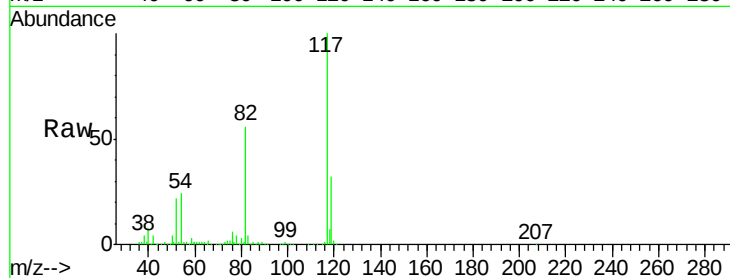
Tot Ion:117 Resp: 396074

Ion Ratio Lower Upper

117 100

82 55.9 44.8 67.2

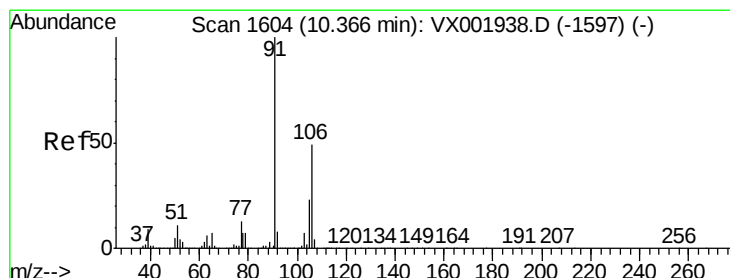
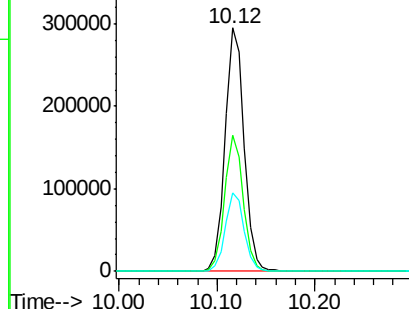
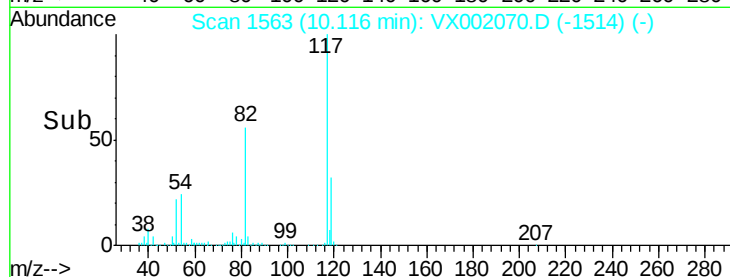
119 32.1 25.5 38.3



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



#68

m/p-Xylenes

Concen: 0.70 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VX002070.D

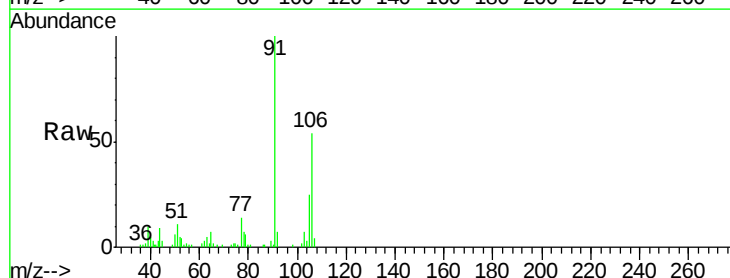
Acq: 27 May 2018 15:59

Tgt Ion:106 Resp: 5868

Ion Ratio Lower Upper

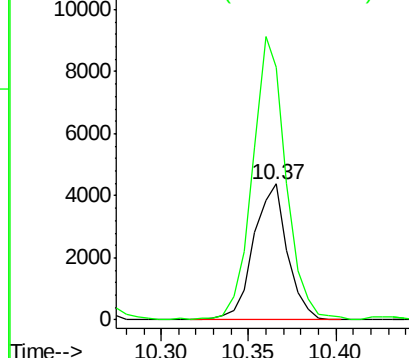
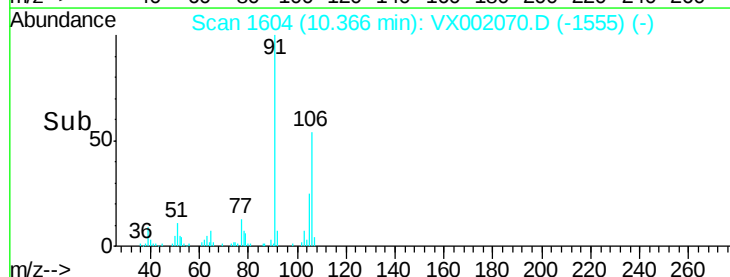
106 100

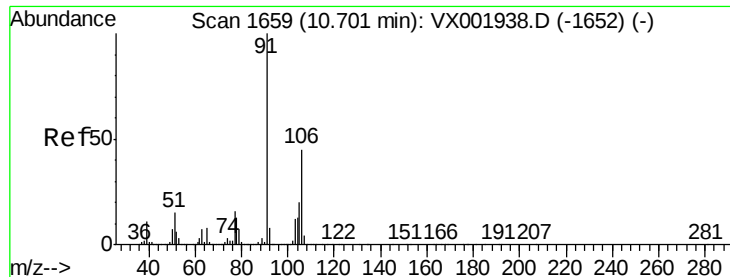
91 206.6 165.0 247.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

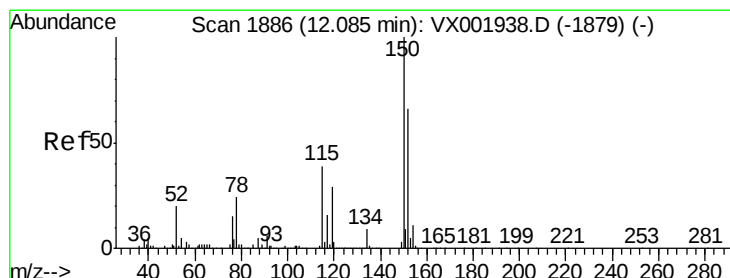
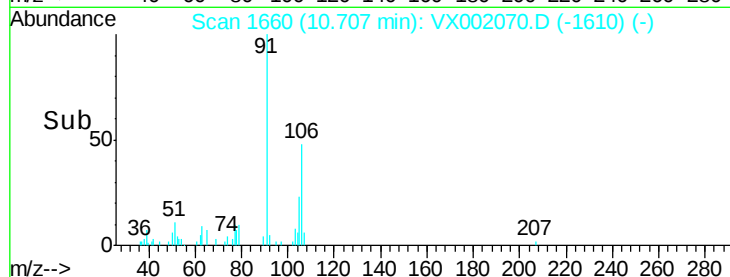
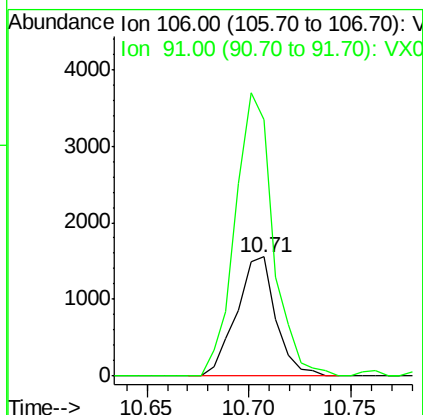
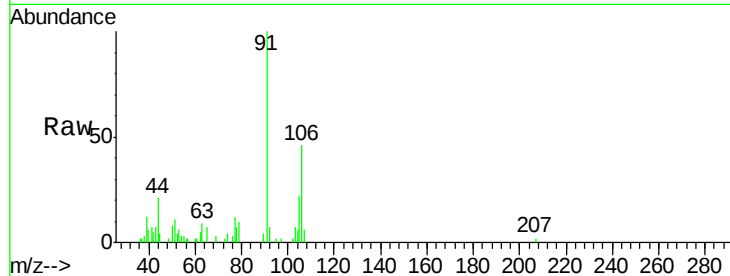




#69
o-Xylene
Concen: 0.25 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.01 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

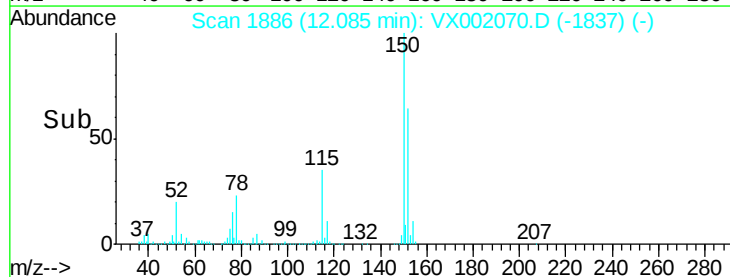
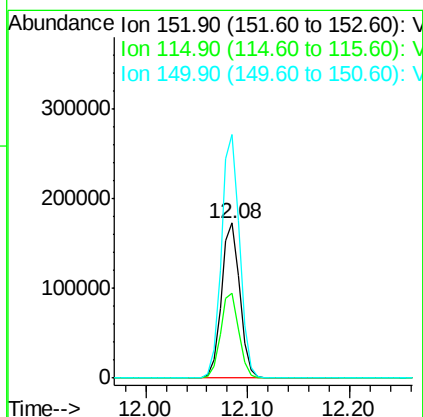
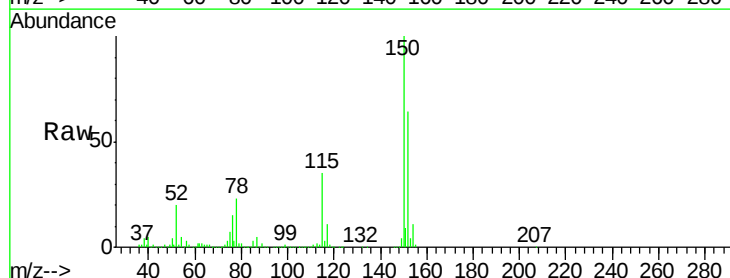
Instrument :
MSVOA_X
ClientSampleId :

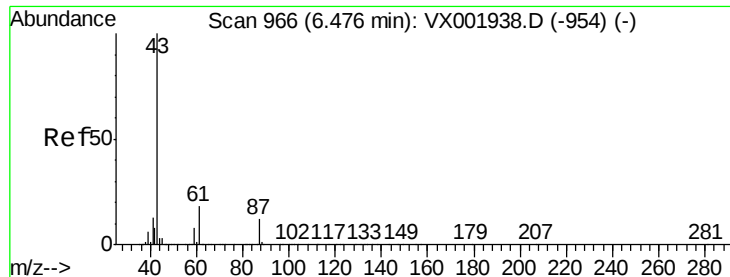
Tot Ion:106 Resp: 2080
Ion Ratio Lower Upper
106 100
91 229.4 108.7 325.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002070.D
Acq: 27 May 2018 15:59

Tgt Ion:152 Resp: 215861
Ion Ratio Lower Upper
152 100
115 55.2 42.3 126.8
150 156.7 0.0 351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX002070.D

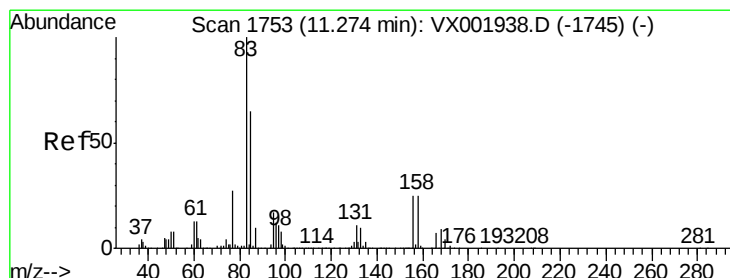
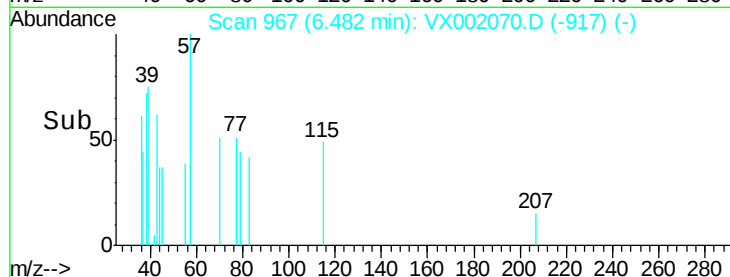
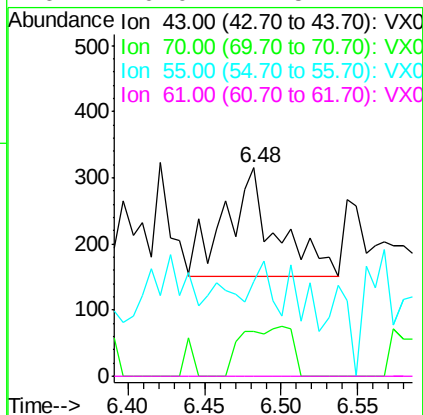
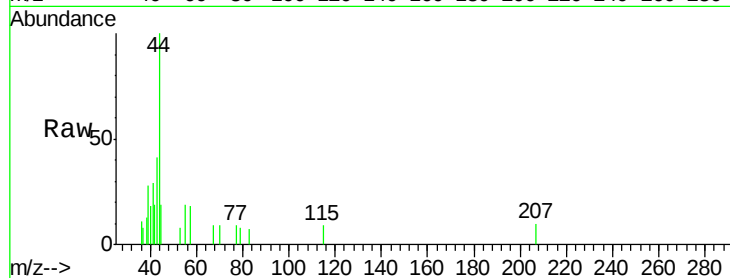
Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	43	Resp:	377
Ion	Ratio	Lower	Upper
43	100		
70	45.6	0.1	0.1#
55	15.9	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

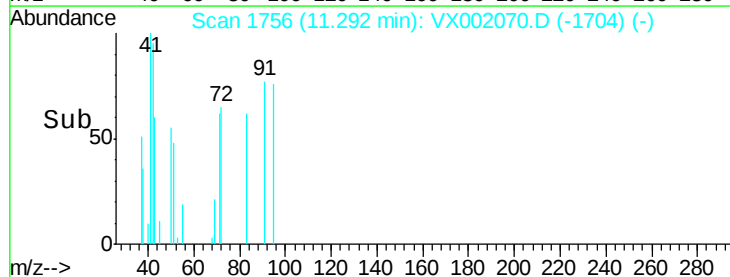
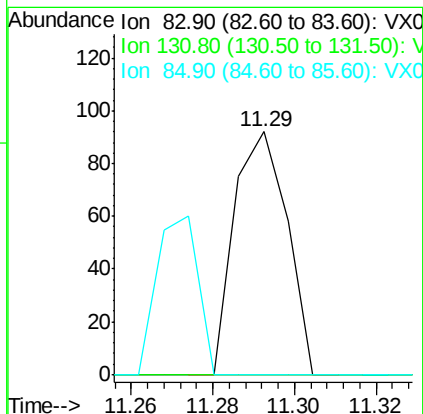
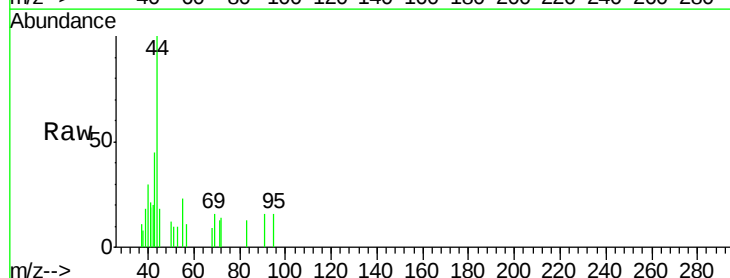
RT: 11.29 min Scan# 1756

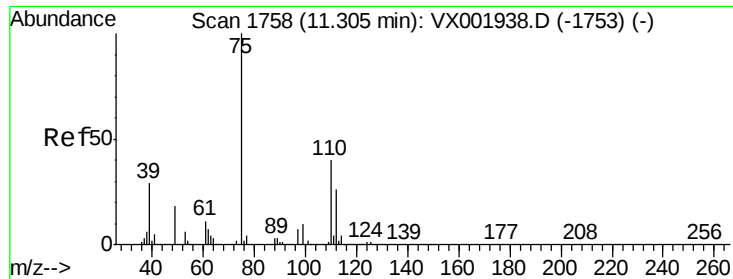
Delta R.T. 0.02 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Tgt Ion:	83	Resp:	82
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.0#
85	51.2	32.6	97.7

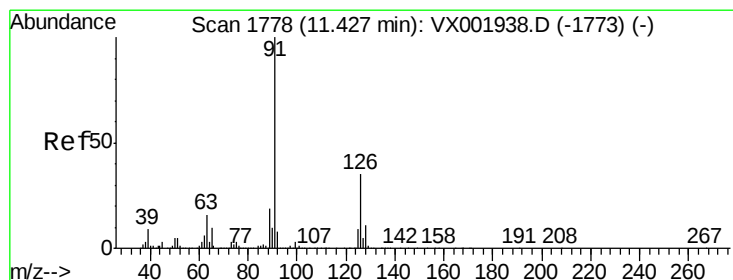
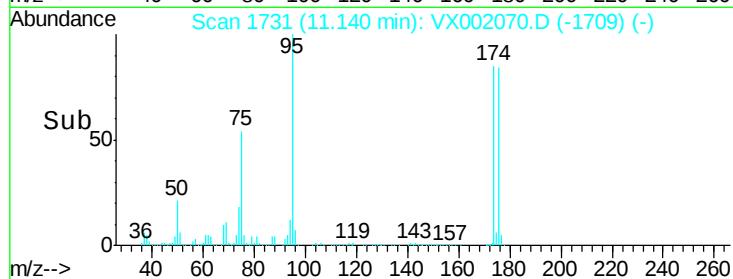
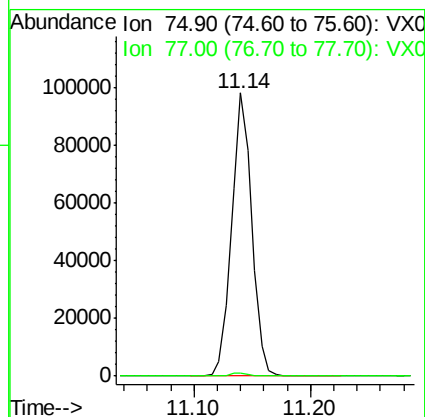
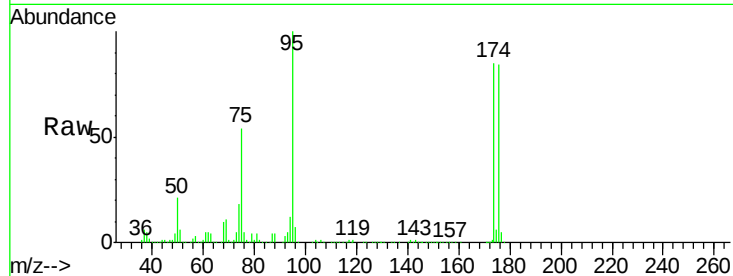




#76
 1,2,3-Trichloropropane
 Concen: 22.73 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002070.D
 Acq: 27 May 2018 15:59

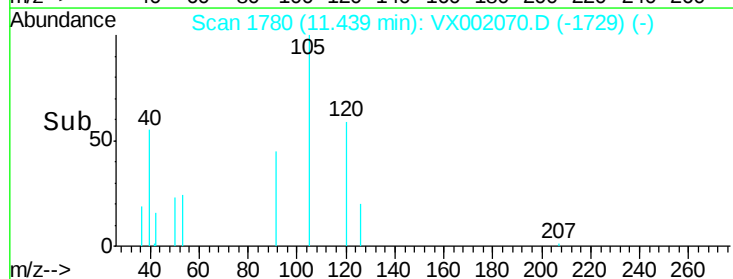
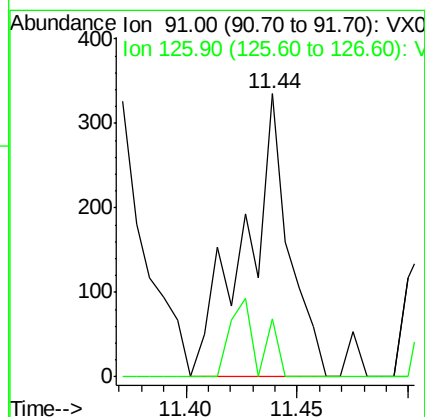
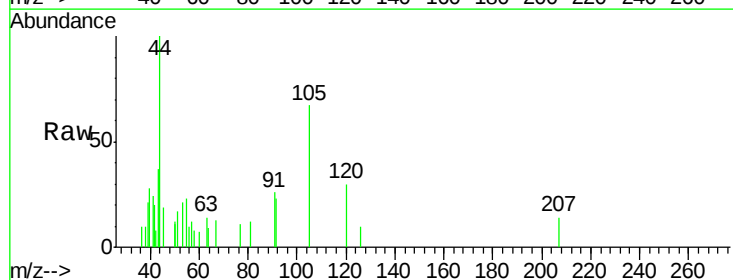
Instrument :
 MSVOA_X
 ClientSampled :

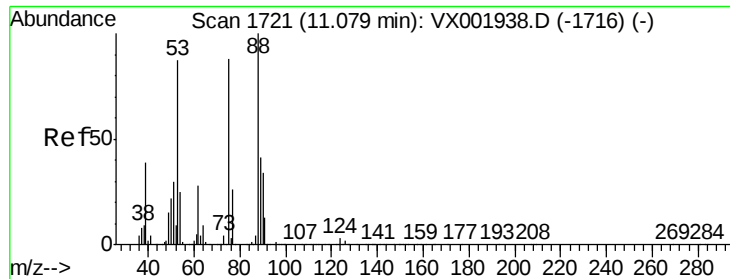
Tot Ion: 75 Resp: 117870
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.44 min Scan# 1780
 Delta R.T. 0.01 min
 Lab File: VX002070.D
 Acq: 27 May 2018 15:59

Tgt Ion: 91 Resp: 460
 Ion Ratio Lower Upper
 91 100
 126 18.3 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 54.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

Instrument :

MSVOA_X

ClientSampleId :

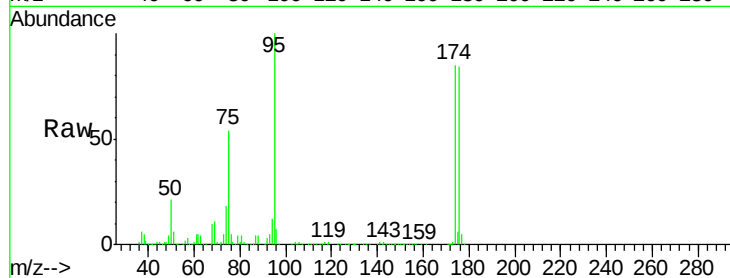
Tot Ion: 75 Resp: 117870

Ion Ratio Lower Upper

75 100

53 0.2 78.0 117.0#

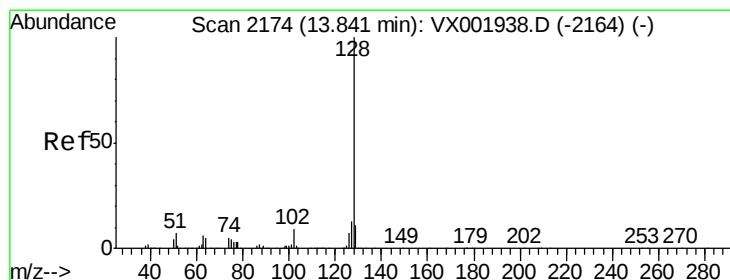
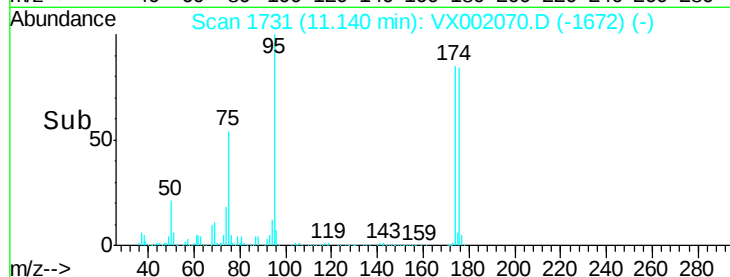
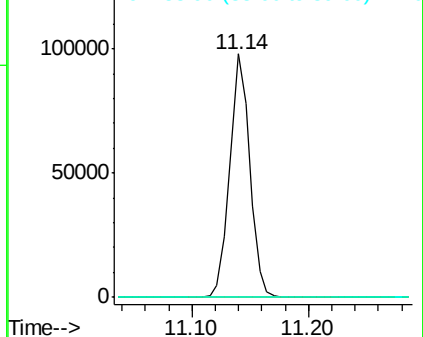
89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 1.29 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002070.D

Acq: 27 May 2018 15:59

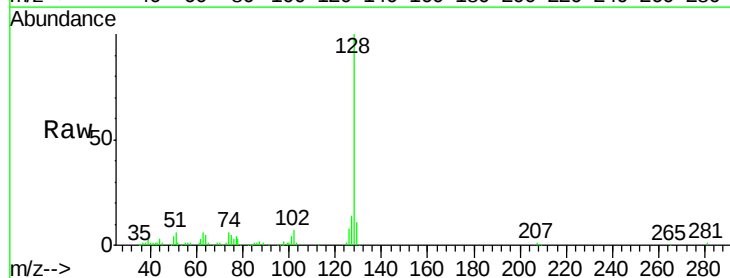
Tgt Ion: 128 Resp: 25198

Ion Ratio Lower Upper

128 100

127 13.5 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

