

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002066.D
 Acq On : 27 May 2018 14:13
 Operator : JC/MD
 Sample : J2672-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:54:31 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	316771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	433923	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	389222	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	218092	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	204601	36.13	ug/l	0.00
Spiked Amount			Recovery	=	72.26%	
35) Dibromofluoromethane	5.51	113	159073	36.66	ug/l	0.00
Spiked Amount			Recovery	=	73.32%	
50) Toluene-d8	8.72	98	618973	39.40	ug/l	0.00
Spiked Amount			Recovery	=	78.80%	
62) 4-Bromofluorobenzene	11.14	95	221592	36.05	ug/l	0.00
Spiked Amount			Recovery	=	72.10%	

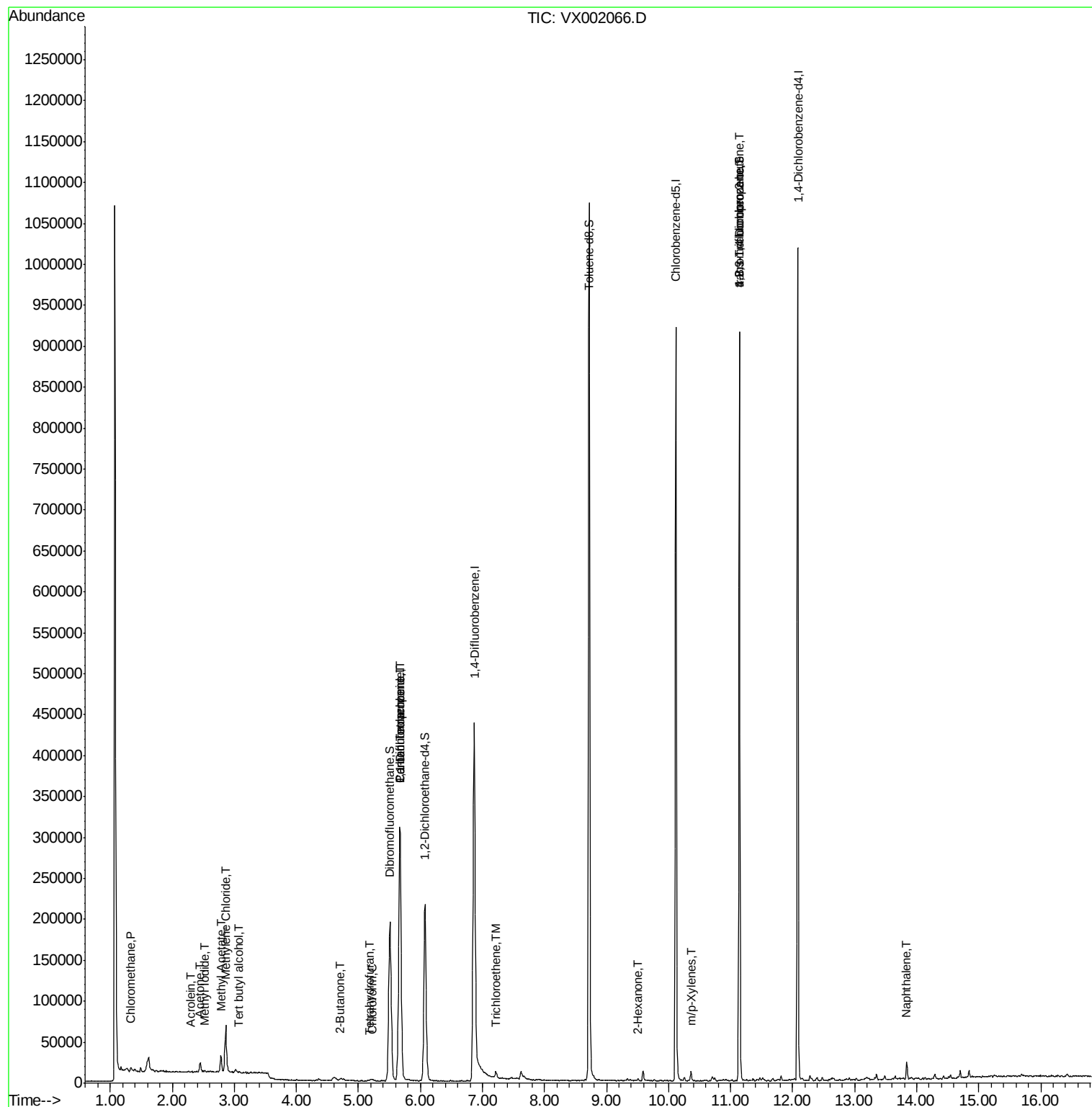
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	191	Below Cal	#	58
3) Chloromethane	1.33	50	4601	0.94	ug/l	93
5) Bromomethane	1.65	94	1476	Below Cal		98
10) Methyl Iodide	2.52	142	1468	0.28	ug/l	# 82
11) Tert butyl alcohol	3.07	59	934	0.84	ug/l	# 82
13) Acrolein	2.30	56	323	0.67	ug/l	# 75
16) Acetone	2.45	43	13301	6.09	ug/l	96
18) Methyl Acetate	2.78	43	23554	3.42	ug/l	94
20) Methylene Chloride	2.86	84	26796	5.60	ug/l	96
21) trans-1,2-Dichloroethene	3.15	96	350	Below Cal	#	31
25) 2-Butanone	4.71	43	4310	1.08	ug/l	91
28) Bromochloromethane	5.04	49	107	Below Cal	#	14
29) Tetrahydrofuran	5.17	42	535	0.21	ug/l	# 52
30) Chloroform	5.22	83	2244	0.27	ug/l	# 78
36) 1,1-Dichloropropene	5.67	75	21291	3.53	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	29022	4.12	ug/l	# 15
41) Methacrylonitrile	5.07	41	200	Below Cal	#	29
44) Trichloroethene	7.22	130	2291	0.44	ug/l	96
59) 2-Hexanone	9.51	43	1303	0.21	ug/l	93
68) m/p-Xylenes	10.37	106	2555	0.31	ug/l	93
74) N-amyl acetate	6.48	43	427	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.29	83	187	Below Cal	#	59
76) 1,2,3-Trichloropropane	11.14	75	115051	21.96	ug/l	# 33
79) 2-Chlorotoluene	11.43	91	842	Below Cal		85
81) trans-1,4-Dichloro-2-buten	11.14	75	115051	52.79	ug/l	# 10
95) Naphthalene	13.84	128	13286	0.67	ug/l	98

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

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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: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

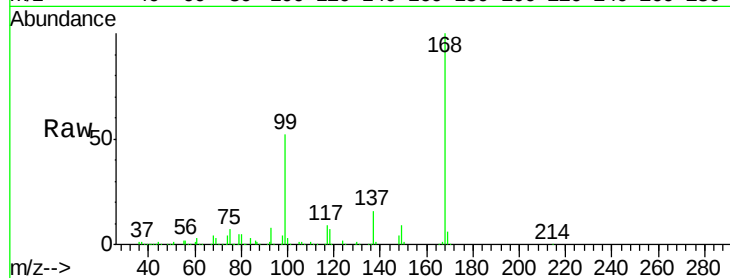
ClientSampled :

Tot Ion:168 Resp: 316771

Ion Ratio Lower Upper

168 100

99 51.9 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

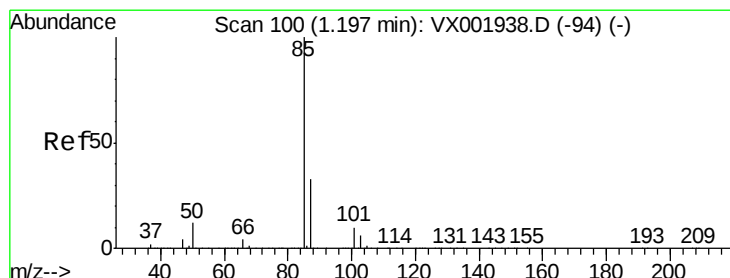
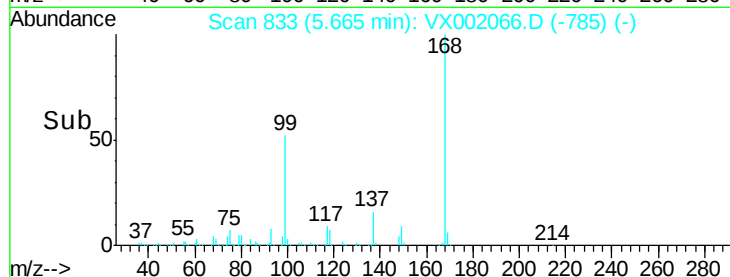
60000

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: VX002066.D

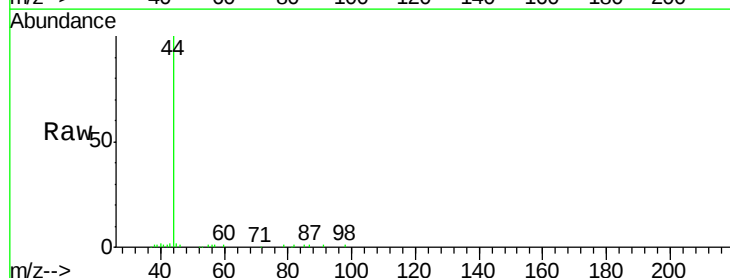
Acq: 27 May 2018 14:13

Tgt Ion: 85 Resp: 191

Ion Ratio Lower Upper

85 100

87 57.4 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

200

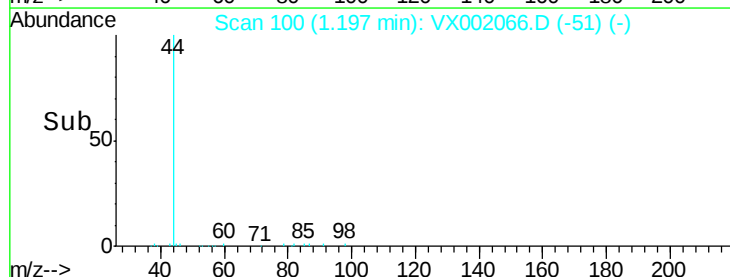
150

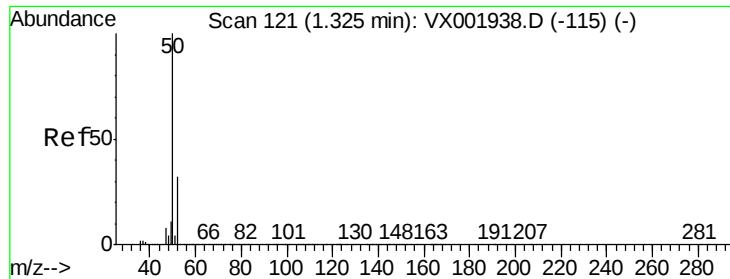
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.94 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

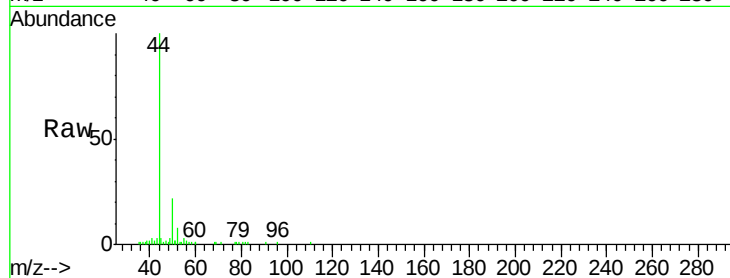
ClientSampled :

Tot Ion: 50 Resp: 4601

Ion Ratio Lower Upper

50 100

52 36.4 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

2500

2000

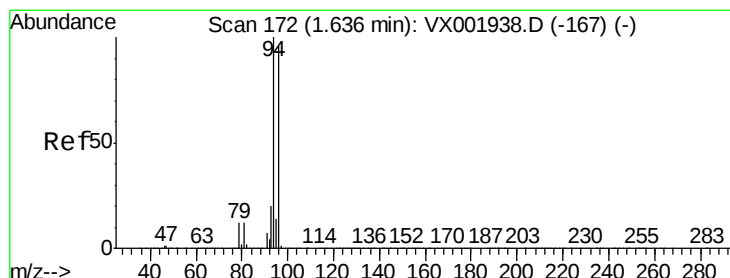
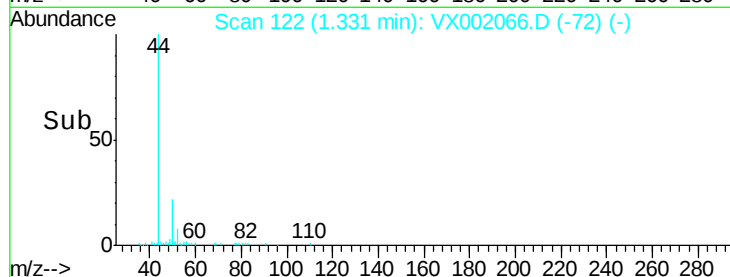
1500

1000

500

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002066.D

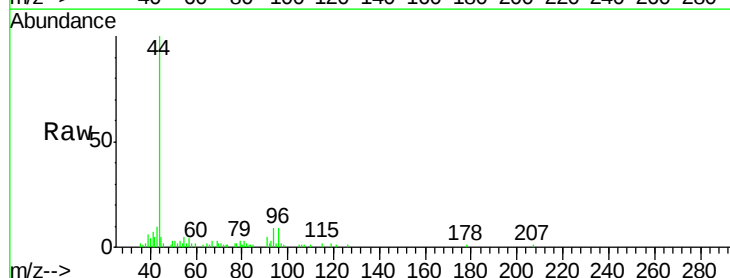
Acq: 27 May 2018 14:13

Tgt Ion: 94 Resp: 1476

Ion Ratio Lower Upper

94 100

96 92.8 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

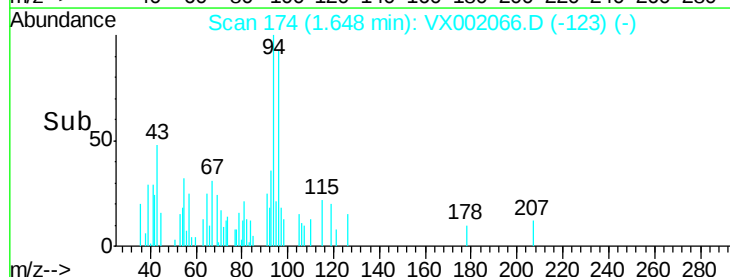
600

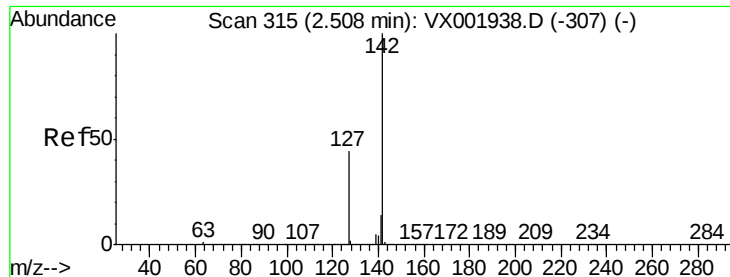
400

200

0

Time-->

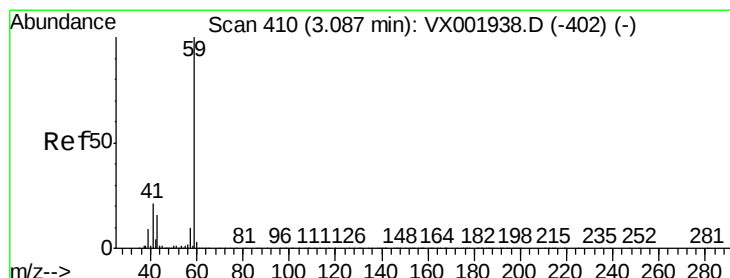
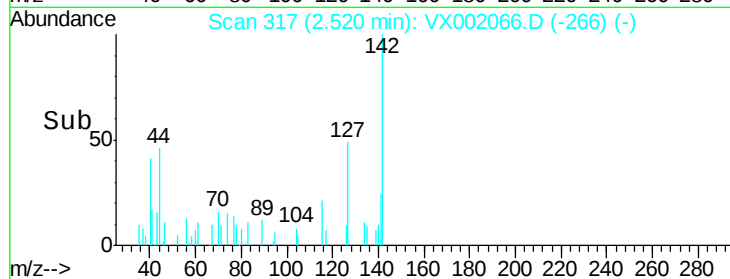
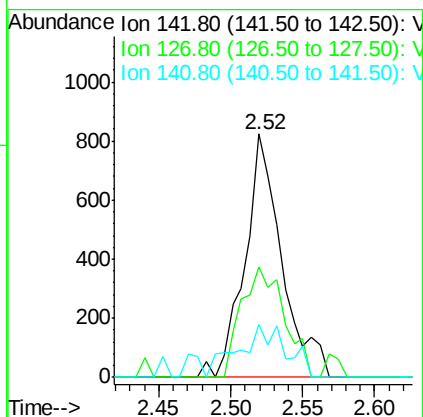
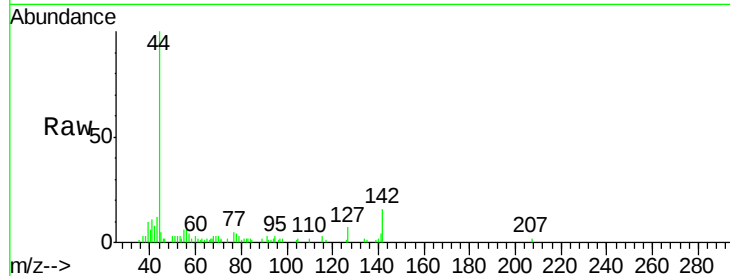




#10
Methvl Iodide
Concen: 0.28 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

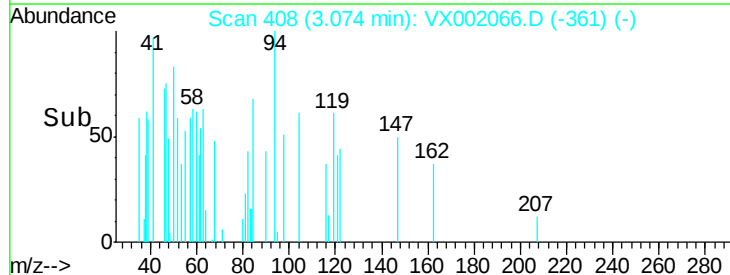
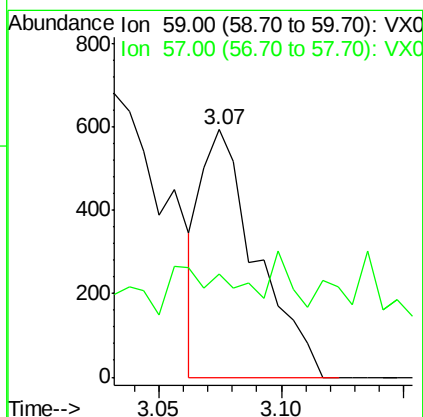
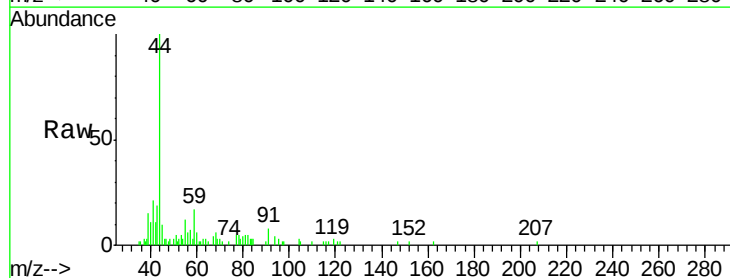
Instrument :
MSVOA_X
ClientSampled :

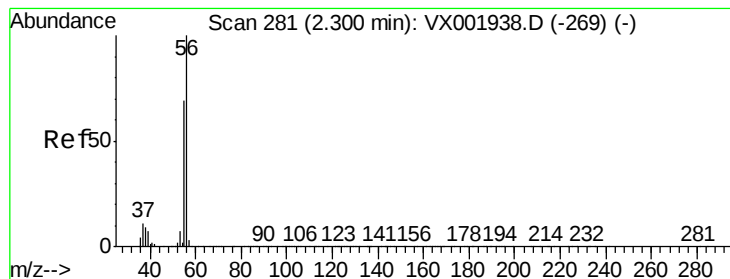
Tot Ion:142 Resp: 1468
Ion Ratio Lower Upper
142 100
127 53.0 35.5 53.3
141 27.9 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.84 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

Tgt Ion: 59 Resp: 934
Ion Ratio Lower Upper
59 100
57 18.1 8.9 13.3#





#13

Acrolein

Concen: 0.67 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

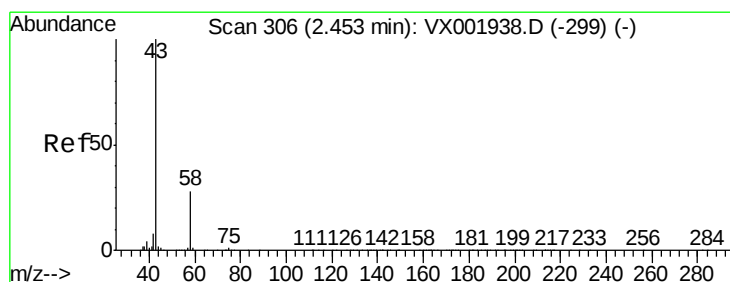
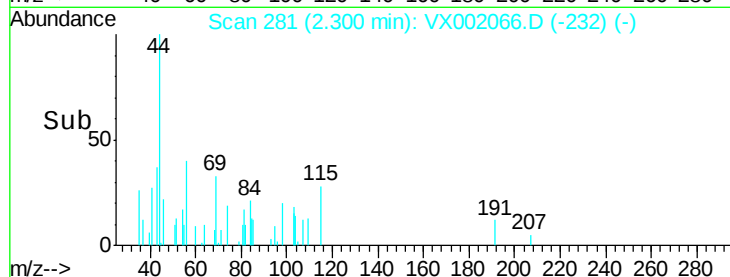
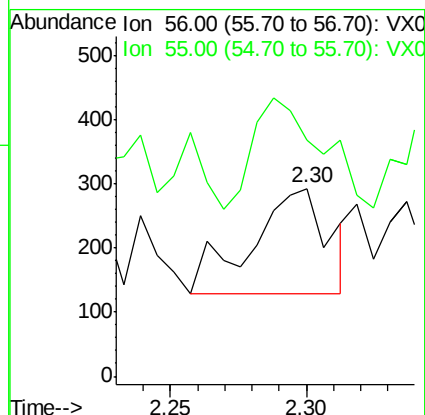
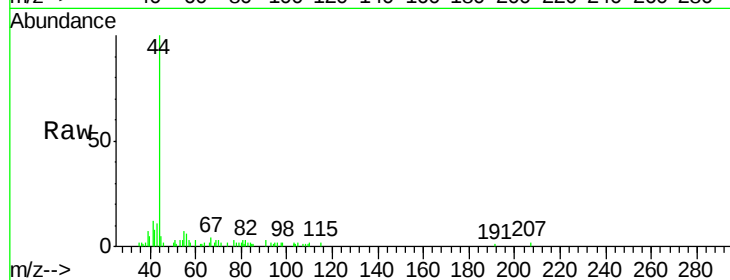
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 323

Ion Ratio Lower Upper

56 100

55 91.3 56.8 85.2#



#16

Acetone

Concen: 6.09 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002066.D

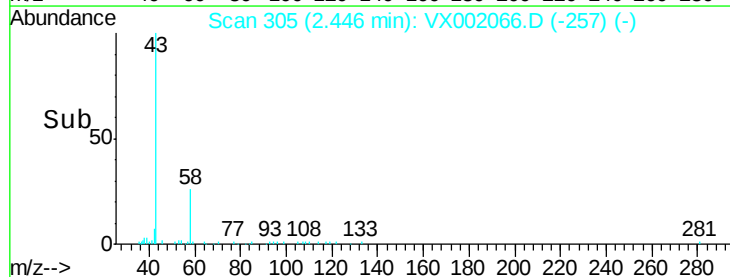
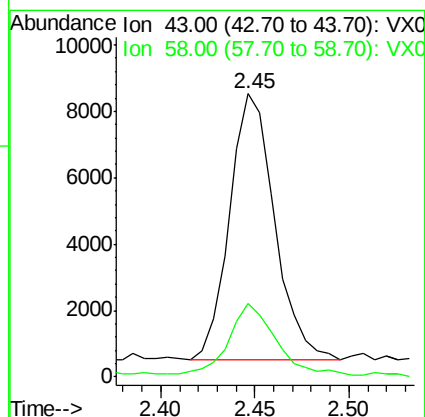
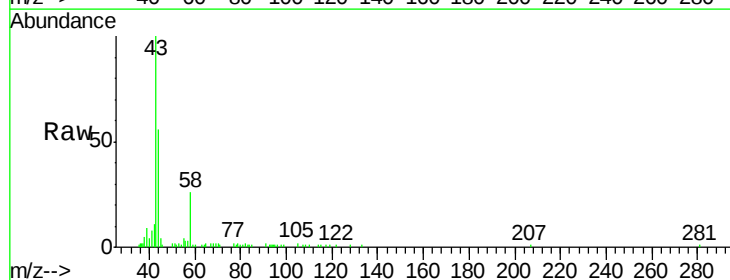
Acq: 27 May 2018 14:13

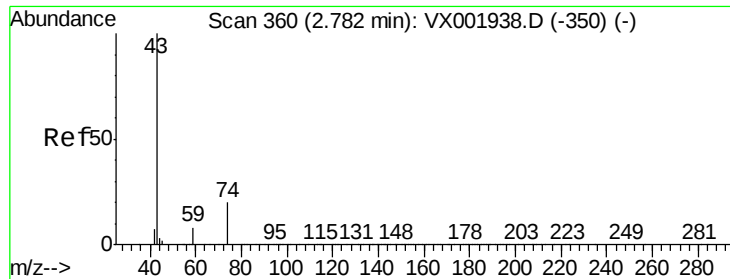
Tgt Ion: 43 Resp: 13301

Ion Ratio Lower Upper

43 100

58 25.9 22.3 33.5

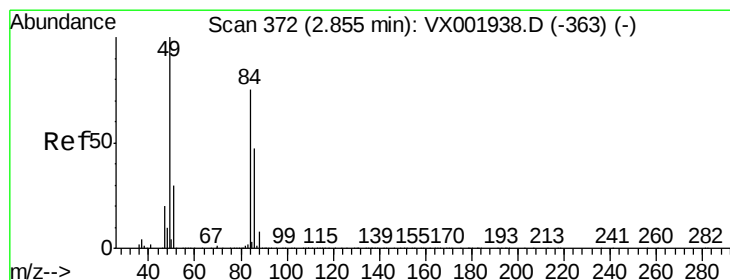
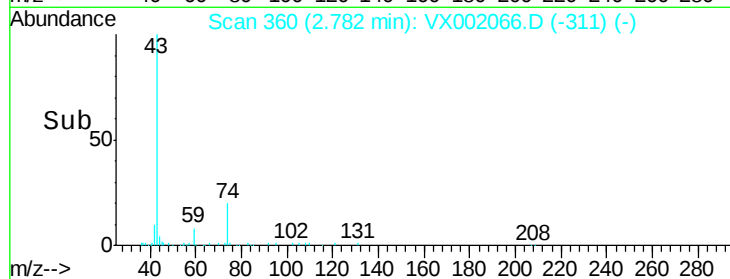
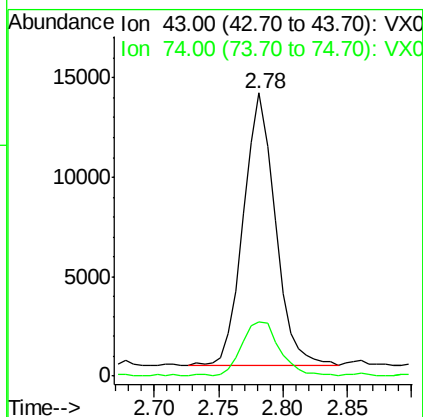
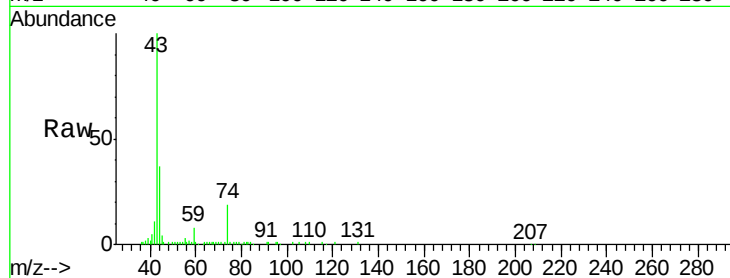




#18
Methvl Acetate
Concen: 3.42 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

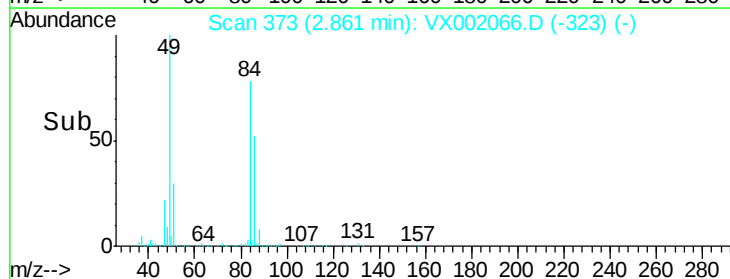
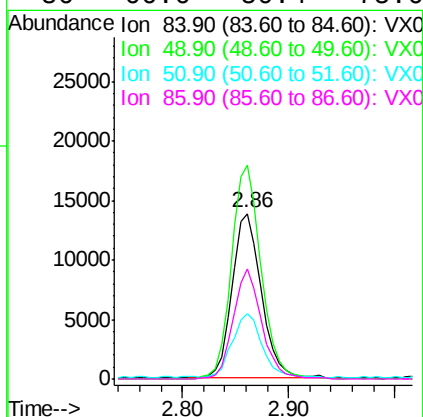
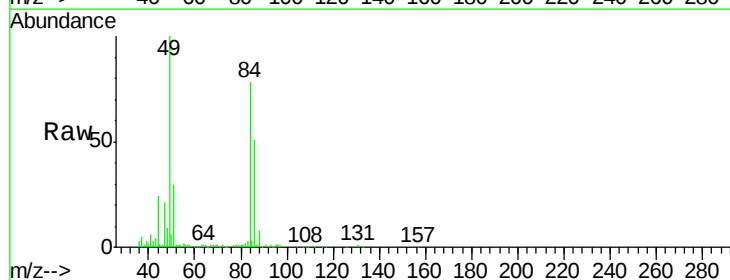
Instrument :
MSVOA_X
ClientSampleId :

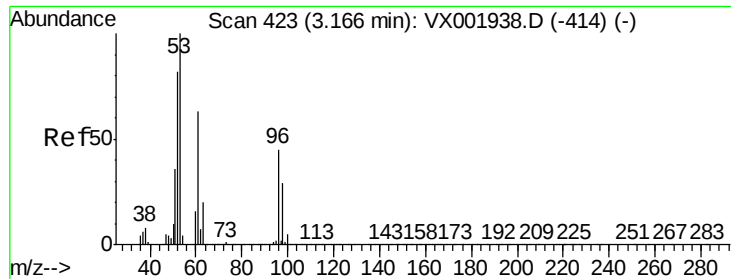
Tot Ion: 43 Resp: 23554
Ion Ratio Lower Upper
43 100
74 23.9 16.8 25.2



#20
Methylene Chloride
Concen: 5.60 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

Tgt Ion: 84 Resp: 26796
Ion Ratio Lower Upper
84 100
49 129.6 107.2 160.8
51 38.3 32.4 48.6
86 66.6 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: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

ClientSampleId :

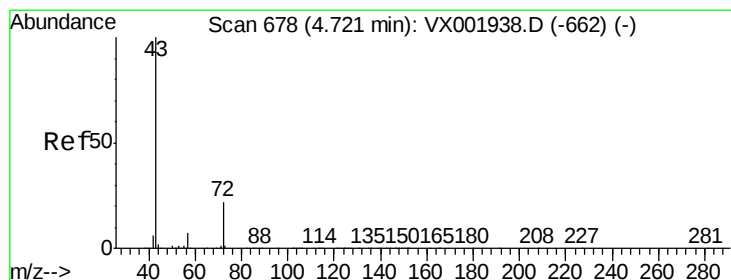
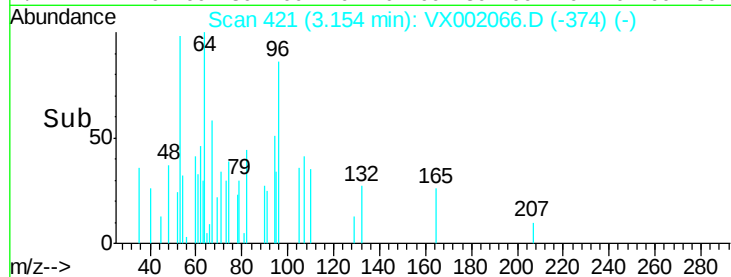
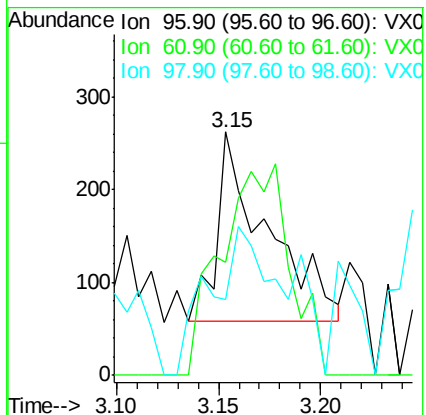
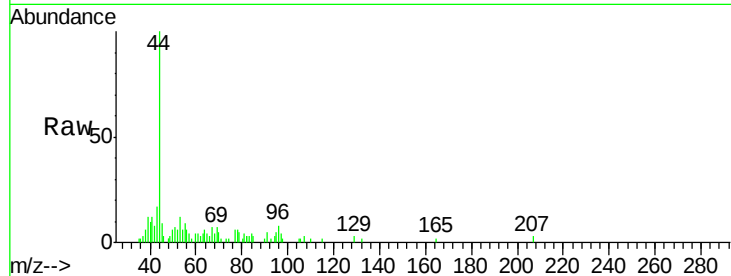
Tot Ion: 96 Resp: 350

Ion Ratio Lower Upper

96 100

61 59.3 113.3 169.9#

98 5.9 51.7 77.5#



#25

2-Butanone

Concen: 1.08 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX002066.D

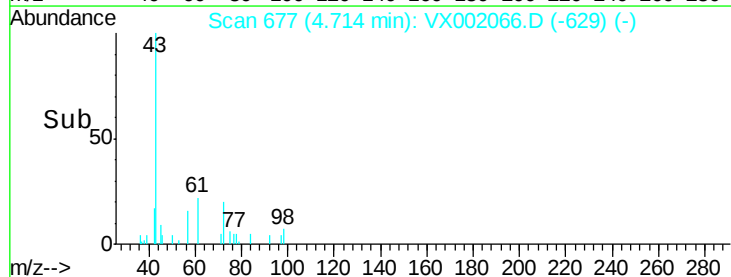
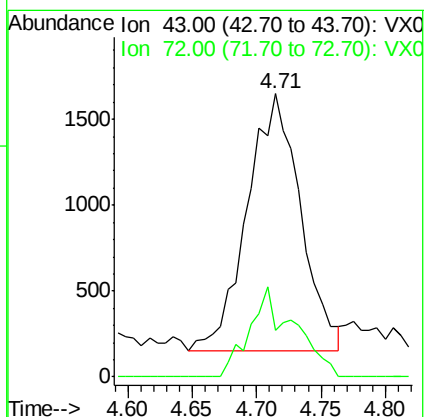
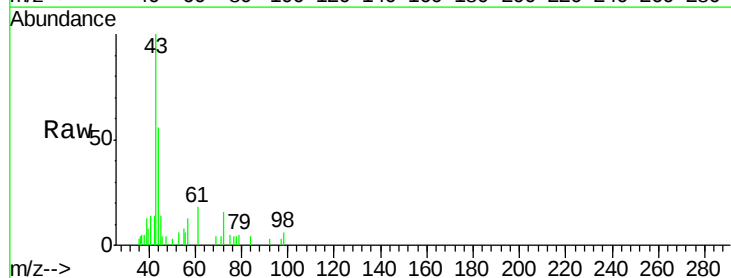
Acq: 27 May 2018 14:13

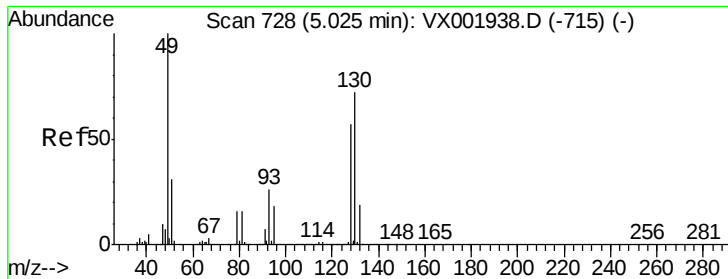
Tgt Ion: 43 Resp: 4310

Ion Ratio Lower Upper

43 100

72 18.1 17.9 26.9





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

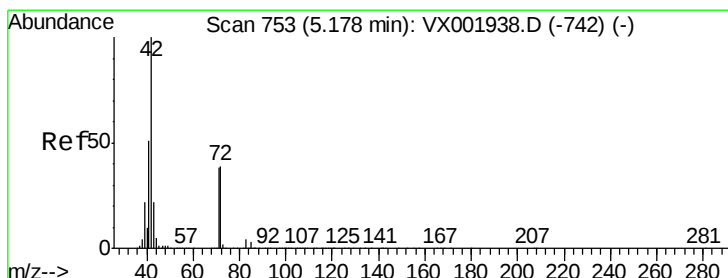
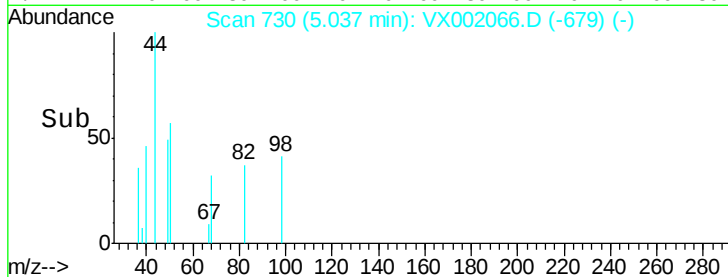
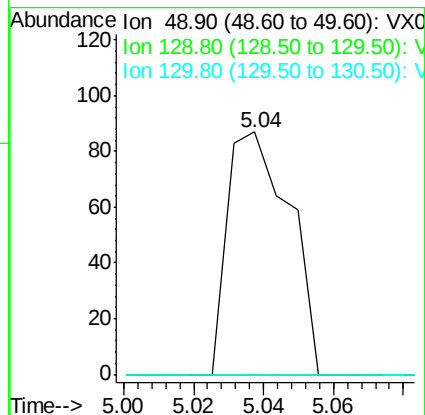
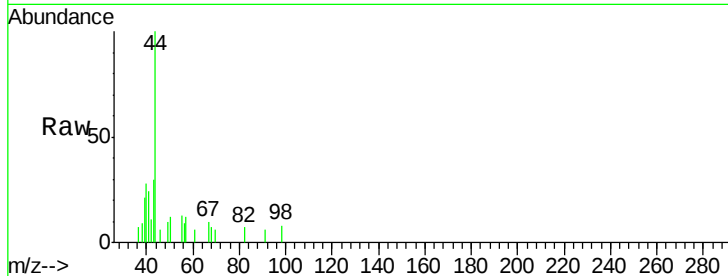
Delta R.T. 0.01 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 107
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 59.4 89.2#



#29

Tetrahydrofuran

Concen: 0.21 ug/l

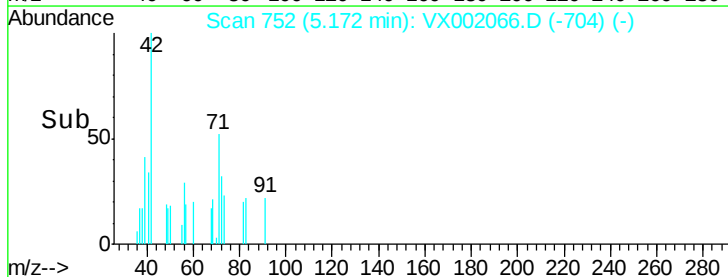
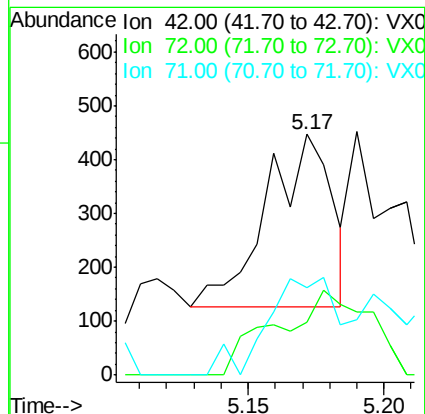
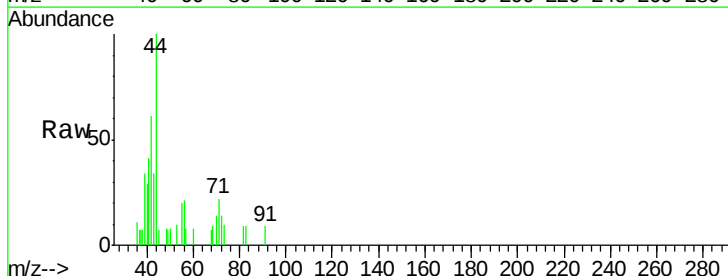
RT: 5.17 min Scan# 752

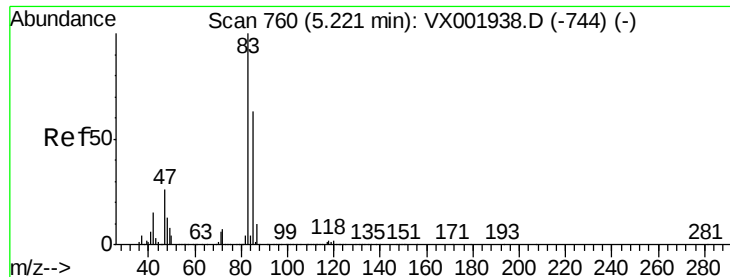
Delta R.T. -0.01 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Tgt Ion: 42 Resp: 535
Ion Ratio Lower Upper
42 100
72 69.2 31.4 47.0#
71 65.4 29.5 44.3#

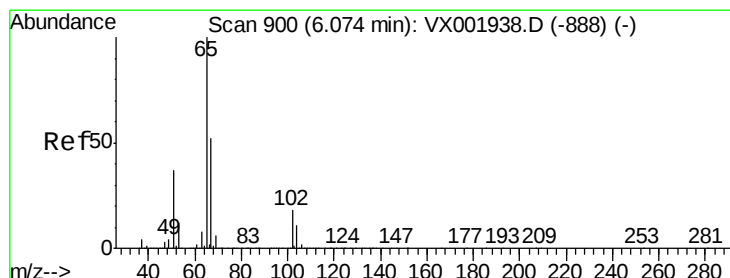
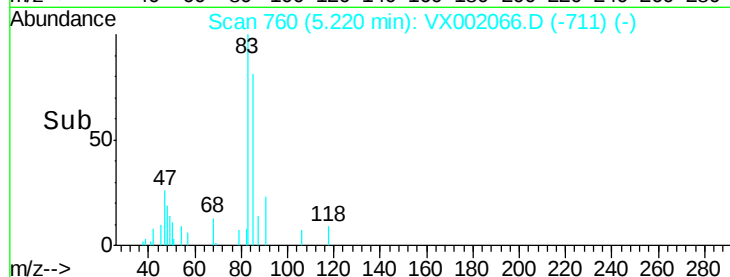
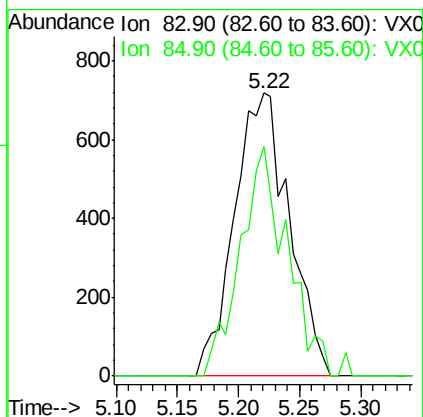
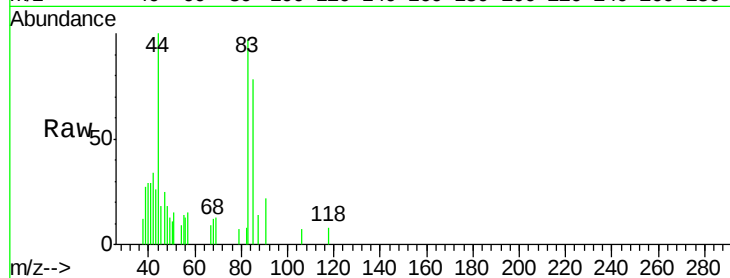




#30
Chloroform
Concen: 0.27 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

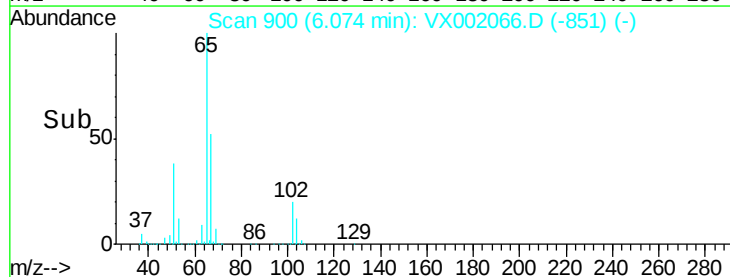
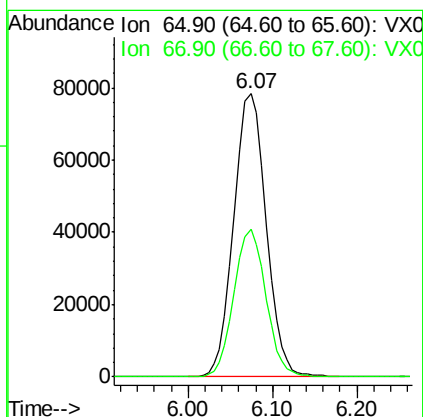
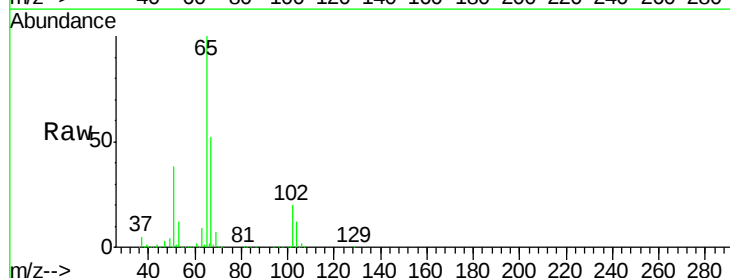
Instrument :
MSVOA_X
ClientSampleId :

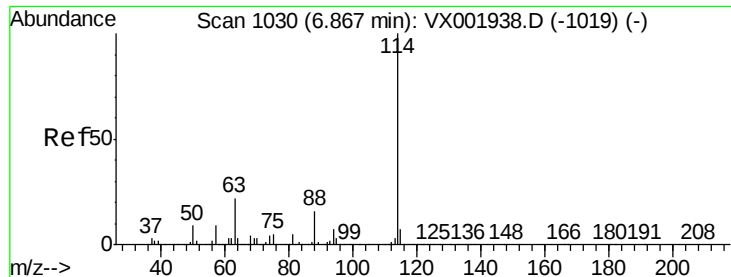
Tot Ion: 83 Resp: 2244
Ion Ratio Lower Upper
83 100
85 80.9 50.9 76.3#



#33
1,2-Dichloroethane-d4
Concen: 36.13 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

Tgt Ion: 65 Resp: 204601
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :
MSVOA_X
ClientSampleId :

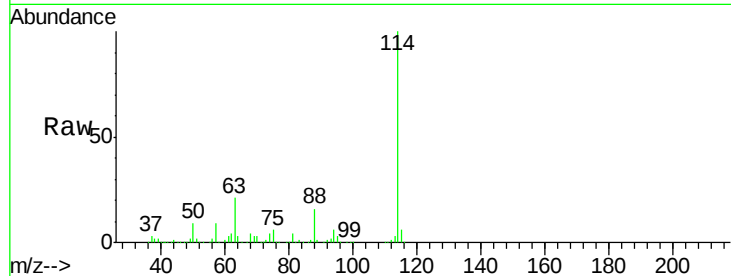
Tot Ion:114 Resp: 433923

Ion Ratio Lower Upper

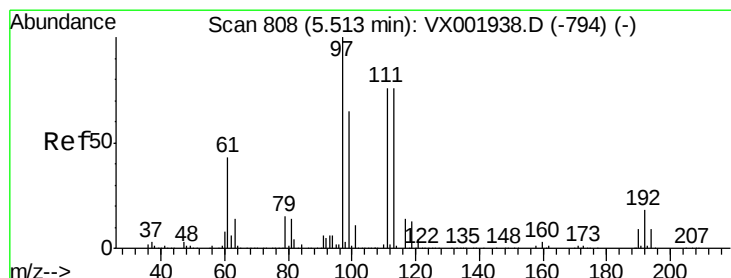
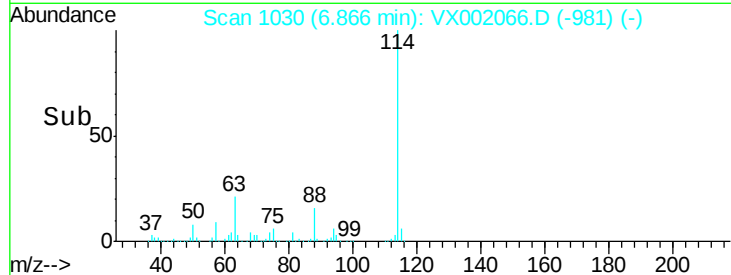
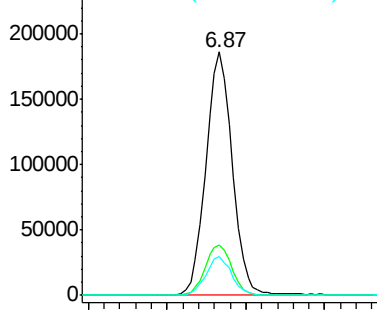
114 100

63 20.8 0.0 43.2

88 15.9 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: 36.66 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

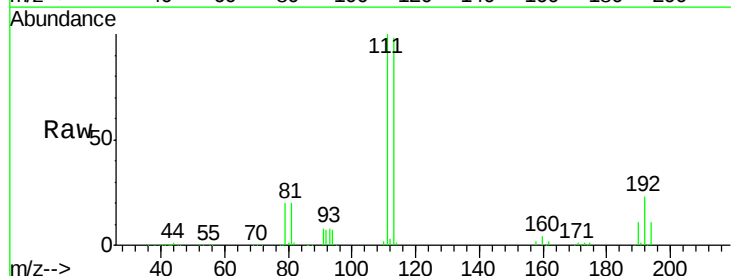
Tgt Ion:113 Resp: 159073

Ion Ratio Lower Upper

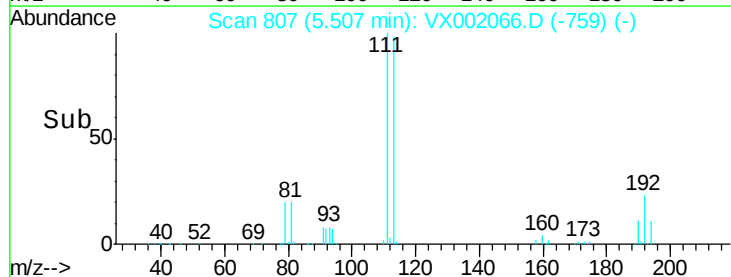
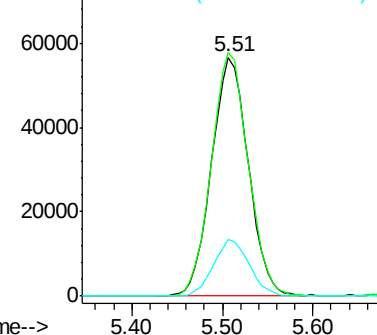
113 100

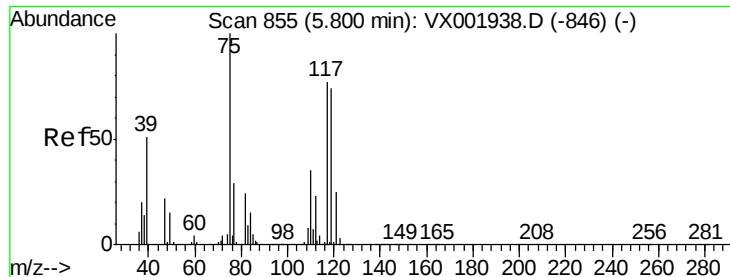
111 102.2 82.0 123.0

192 22.9 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

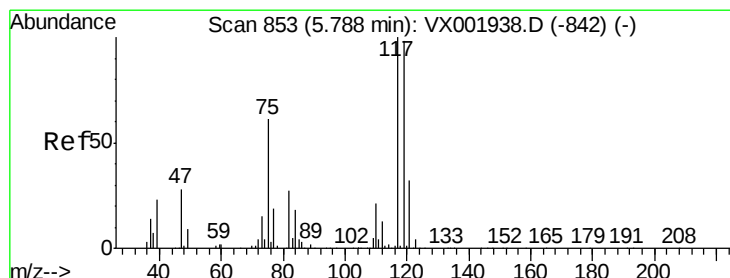
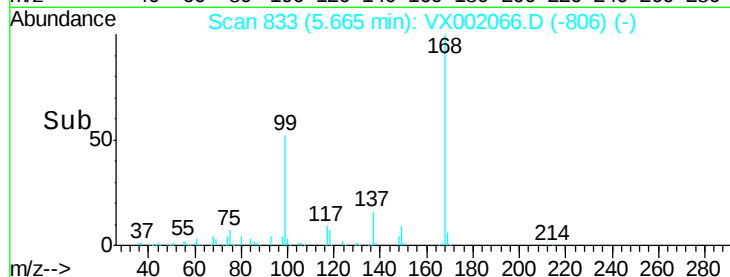
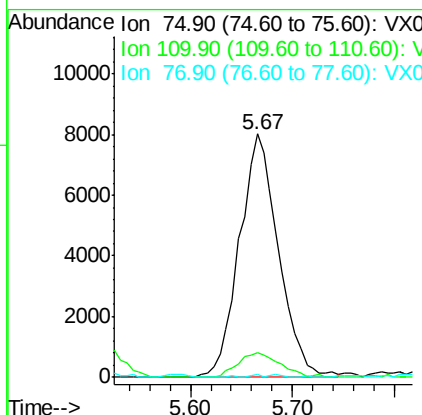
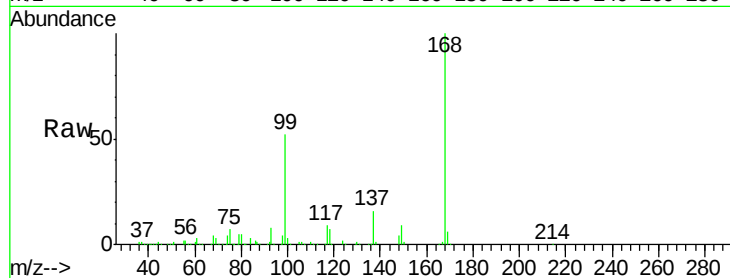




#36
 1,1-Dichloropropene
 Concen: 3.53 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002066.D
 Acq: 27 May 2018 14:13

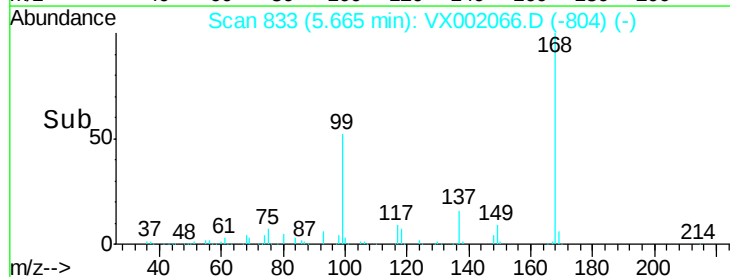
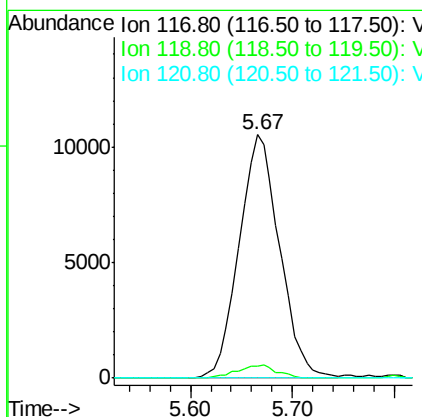
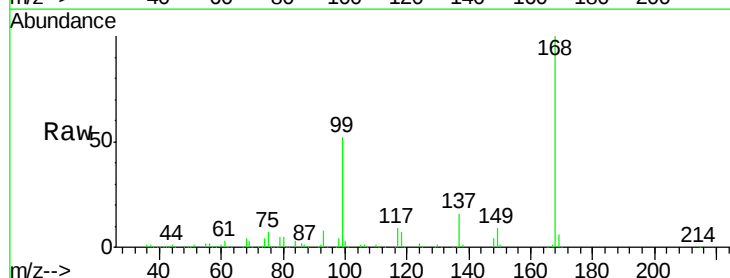
Instrument :
 MSVOA_X
 ClientSampled :

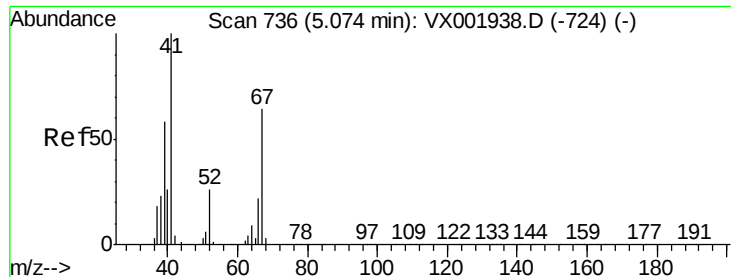
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.4	52.2#
77	0.2	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.12 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002066.D
 Acq: 27 May 2018 14:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.5	117.7#
121	0.0	25.5	38.3#





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.07 min Scan# 736

Delta R.T. 0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 41 Resp: 200

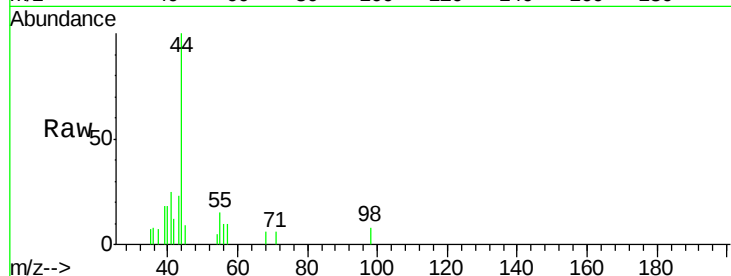
Ion Ratio Lower Upper

41 100

39 0.0 46.0 69.0#

67 0.0 50.6 75.8#

52 11.5 21.9 32.9#

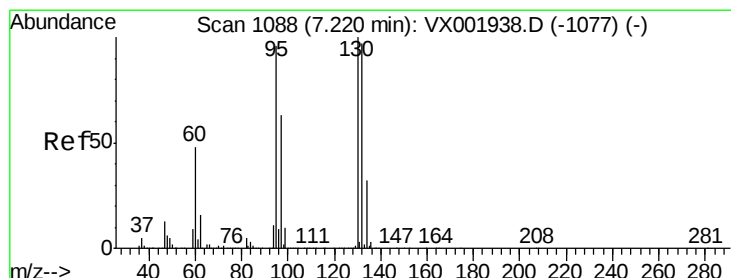
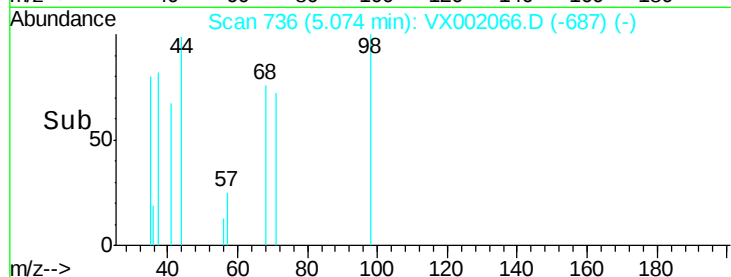
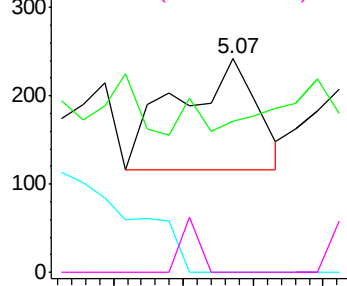


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#44

Trichloroethene

Concen: 0.44 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX002066.D

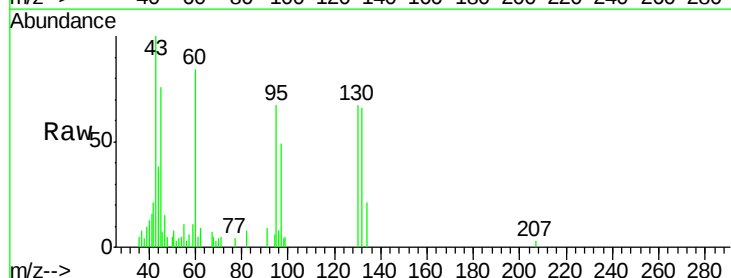
Acq: 27 May 2018 14:13

Tgt Ion:130 Resp: 2291

Ion Ratio Lower Upper

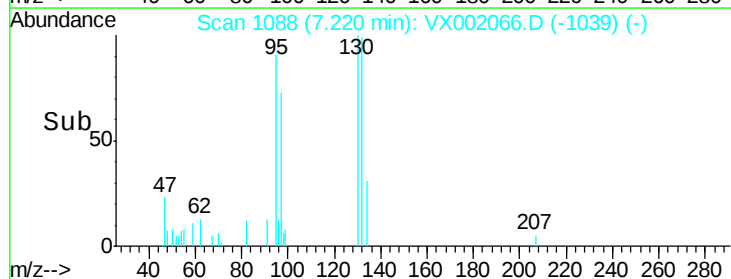
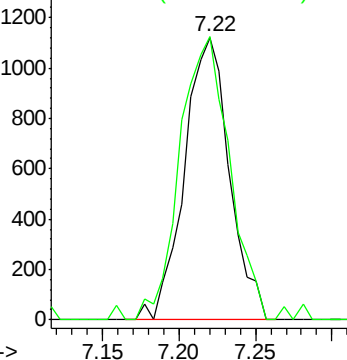
130 100

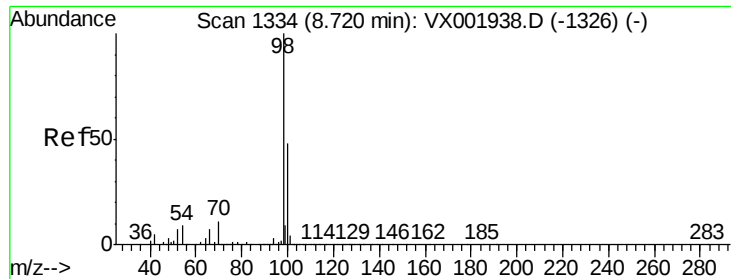
95 100.3 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

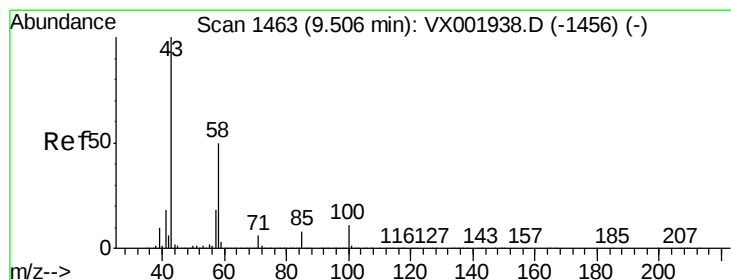
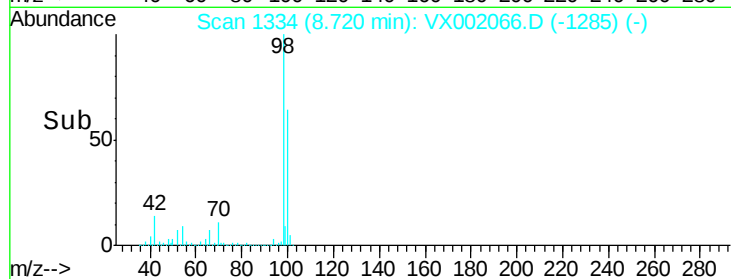
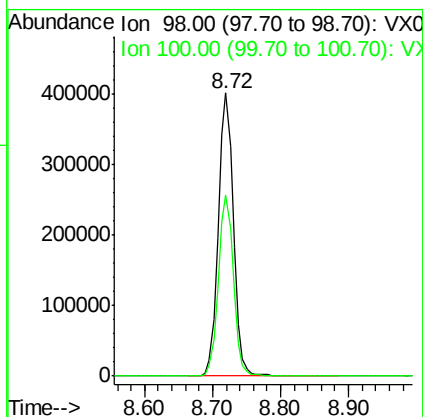
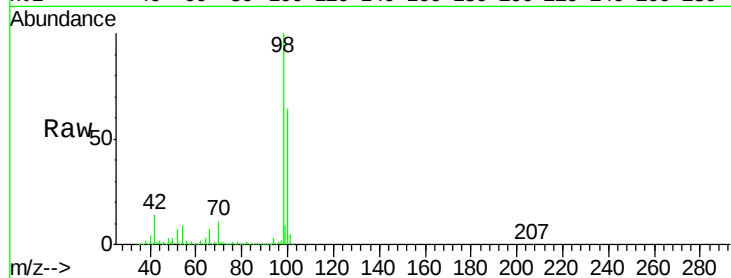




#50
Toluene-d8
Concen: 39.40 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

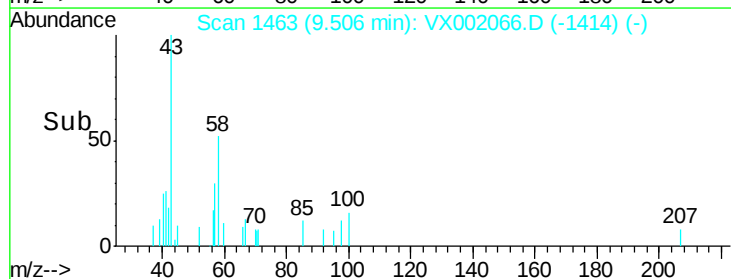
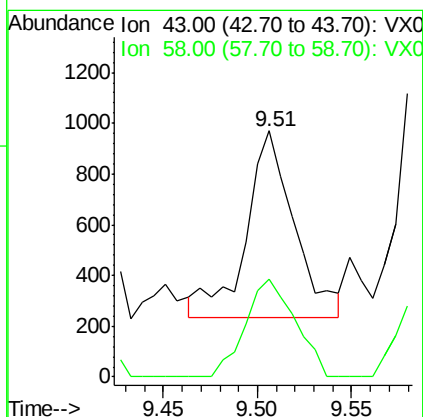
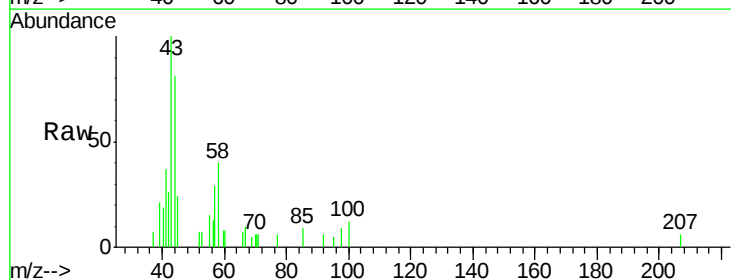
Instrument :
MSVOA_X
ClientSampled :

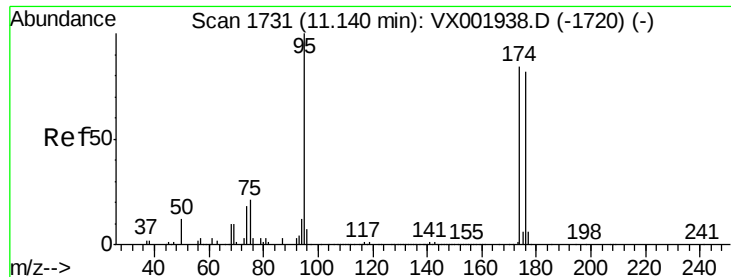
Tot Ion: 98 Resp: 618973
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3



#59
2-Hexanone
Concen: 0.21 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. -0.00 min
Lab File: VX002066.D
Acq: 27 May 2018 14:13

Tgt Ion: 43 Resp: 1303
Ion Ratio Lower Upper
43 100
58 54.3 24.9 74.6





#62

4-Bromofluorobenzene

Concen: 36.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

ClientSampled :

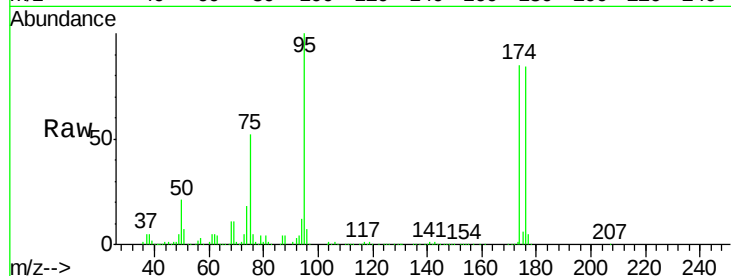
Tot Ion: 95 Resp: 221592

Ion Ratio Lower Upper

95 100

174 93.0 0.0 178.8

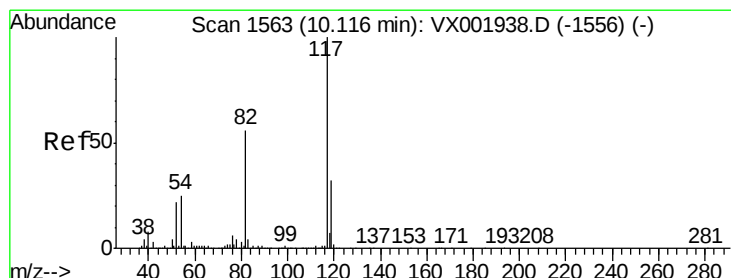
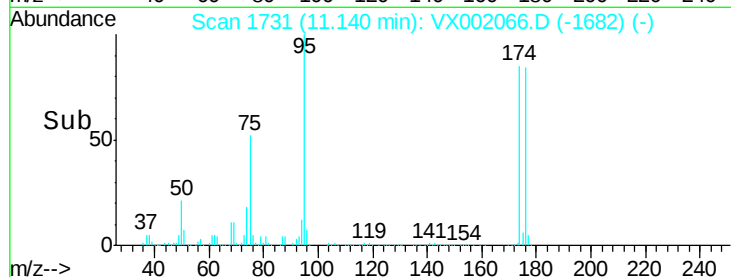
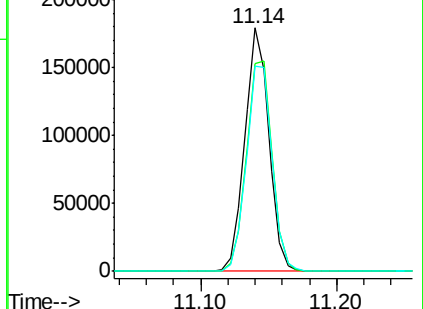
176 90.9 0.0 175.6



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) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

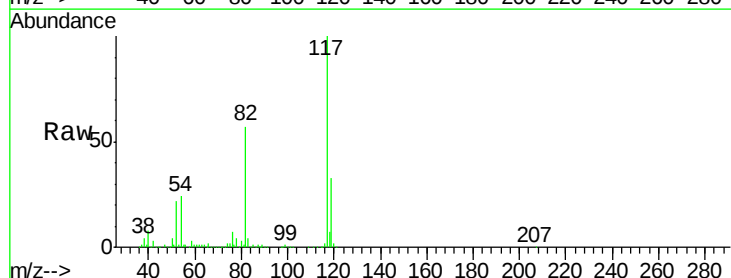
Tgt Ion: 117 Resp: 389222

Ion Ratio Lower Upper

117 100

82 56.7 44.8 67.2

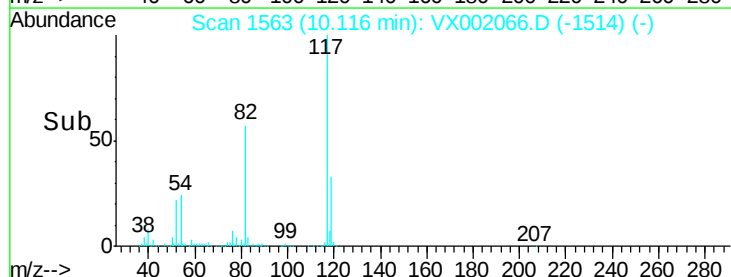
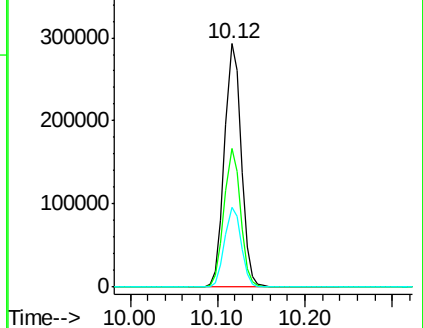
119 32.8 25.5 38.3

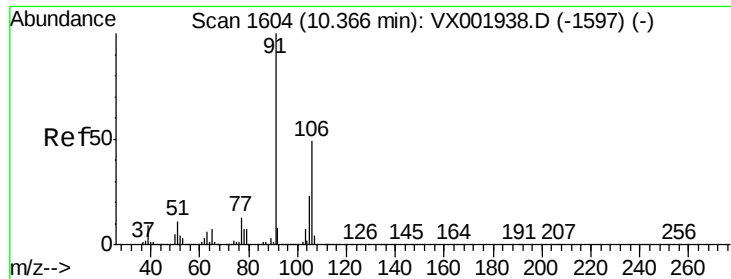


Abundance Ion 116.90 (116.60 to 117.60): VX001938.D (-1556) (-)

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

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





#68

m/p-Xvlenes

Concen: 0.31 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

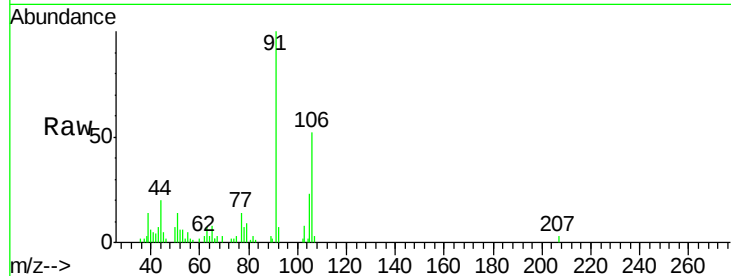
ClientSampled :

Tot Ion:106 Resp: 2555

Ion Ratio Lower Upper

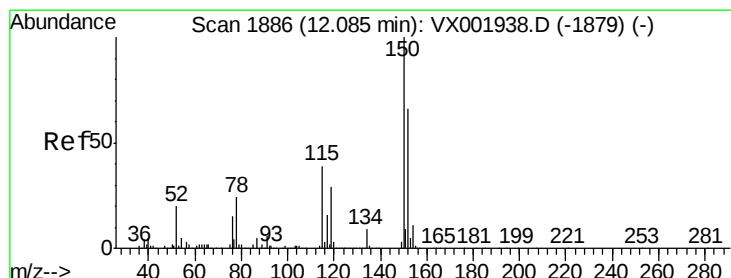
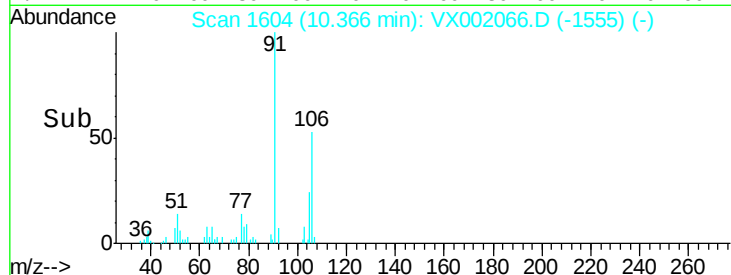
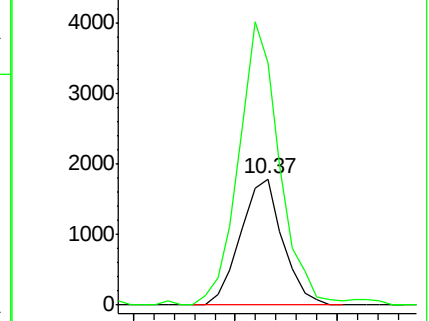
106 100

91 217.3 165.0 247.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

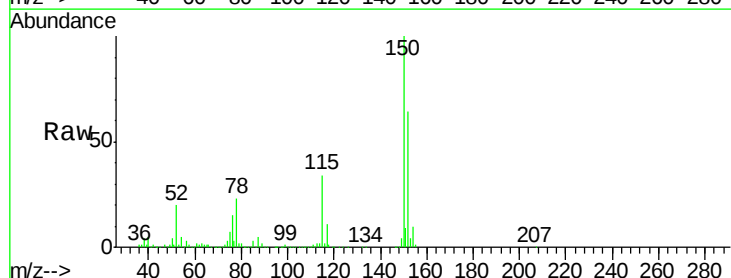
Tgt Ion:152 Resp: 218092

Ion Ratio Lower Upper

152 100

115 55.6 42.3 126.8

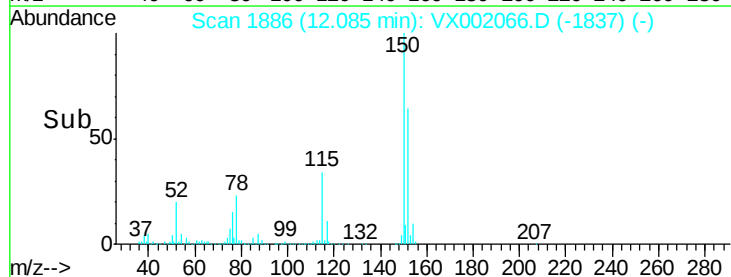
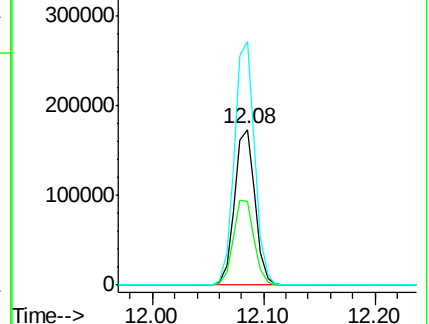
150 156.0 0.0 351.0

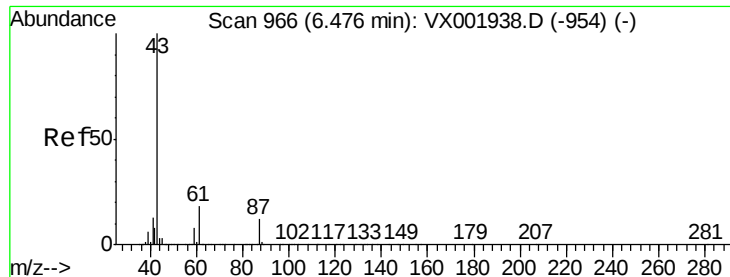


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

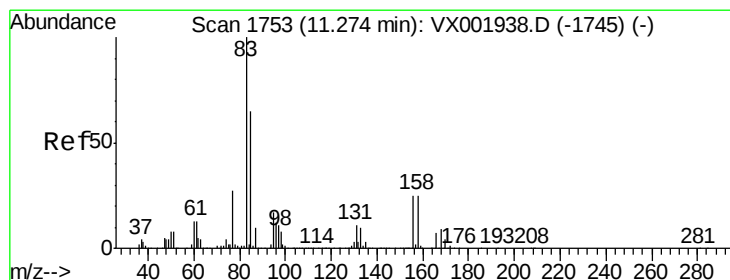
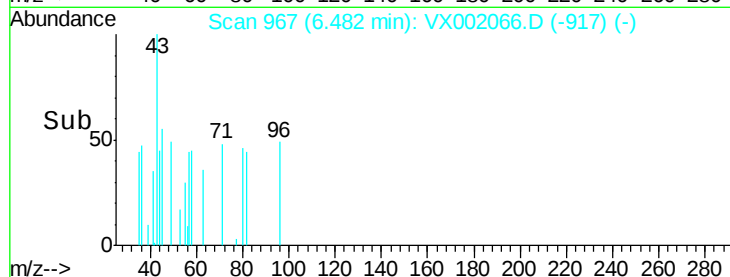
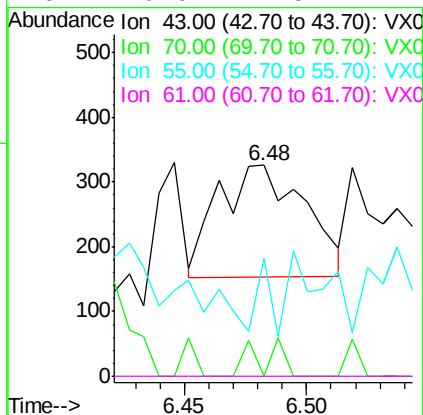
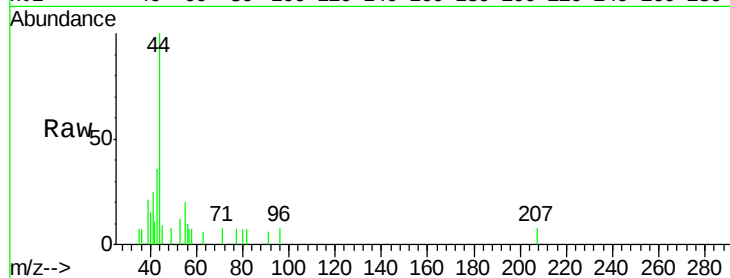
Delta R.T. 0.01 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	43	Resp:	427
Ion	Ratio	Lower	Upper
43	100		
70	9.8	0.1	0.1#
55	10.3	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

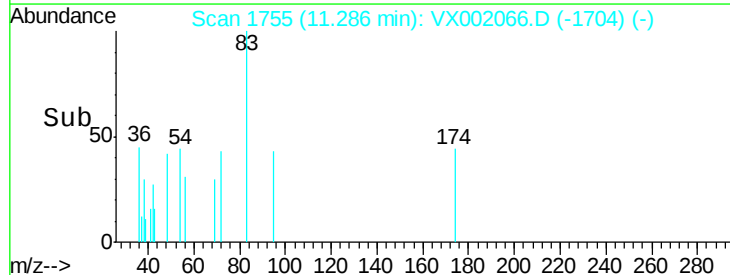
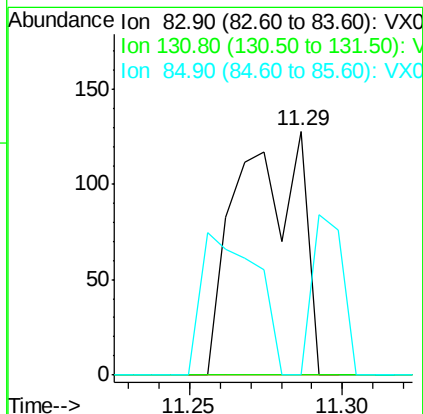
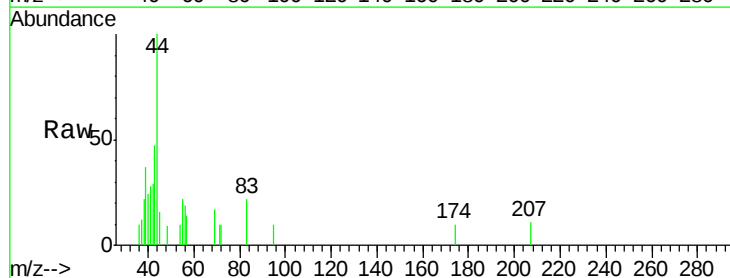
RT: 11.29 min Scan# 1755

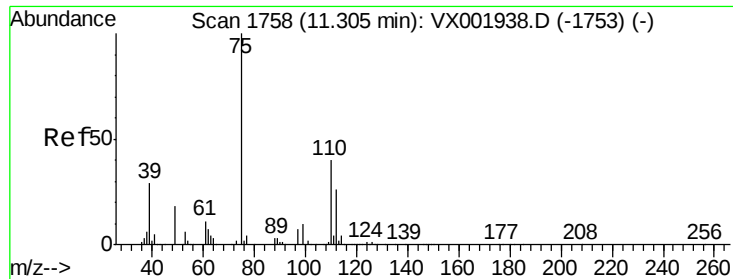
Delta R.T. 0.01 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Tgt Ion:	83	Resp:	187
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.0#
85	31.6	32.6	97.7#





#76

1,2,3-Trichloropropane

Concen: 21.96 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

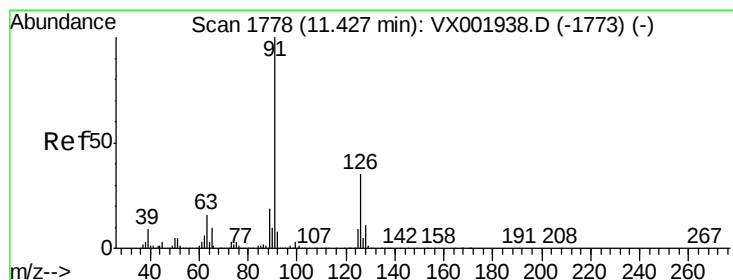
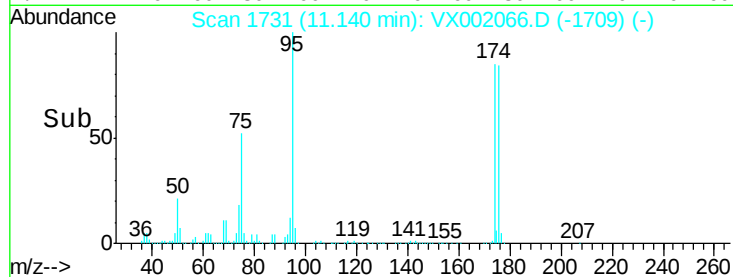
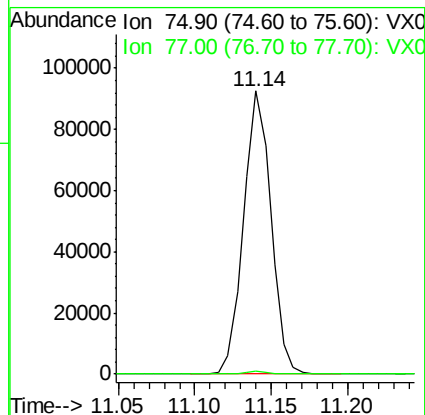
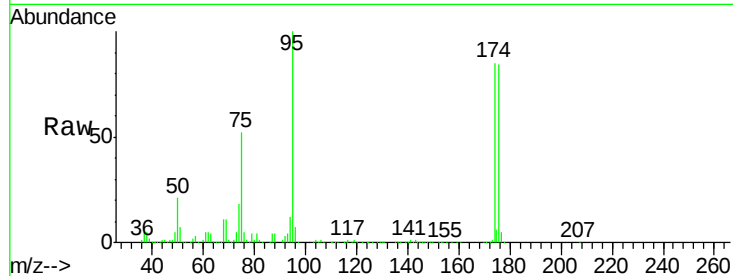
ClientSampled :

Tot Ion: 75 Resp: 115051

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX002066.D

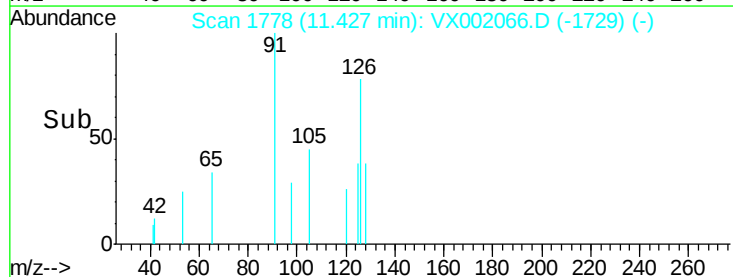
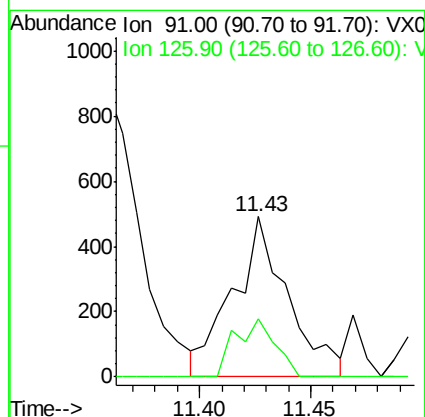
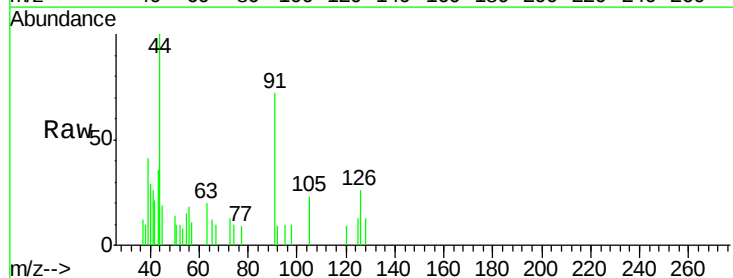
Acq: 27 May 2018 14:13

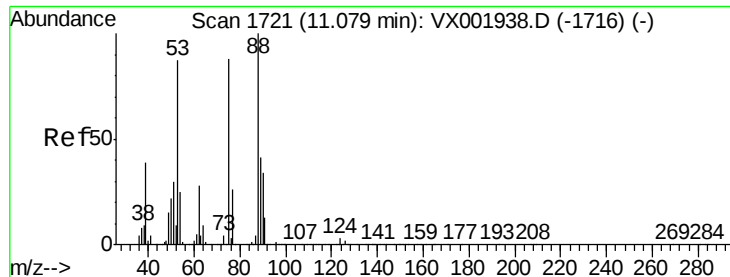
Tgt Ion: 91 Resp: 842

Ion Ratio Lower Upper

91 100

126 26.2 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 52.79 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

Instrument :

MSVOA_X

ClientSampleId :

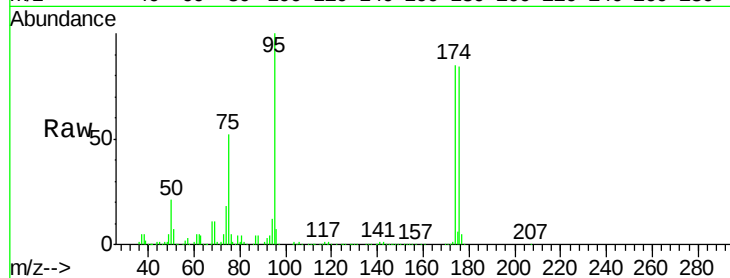
Tot Ion: 75 Resp: 115051

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

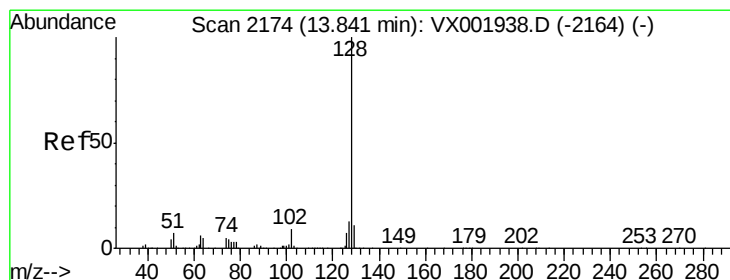
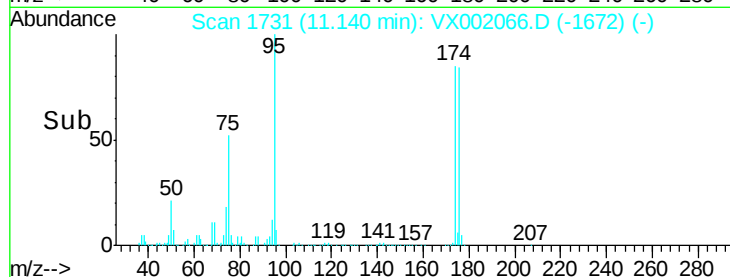
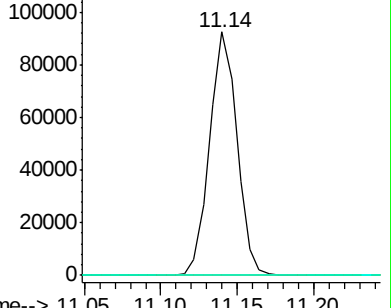
89 0.1 39.4 59.2#



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) (-)



#95

Naphthalene

Concen: 0.67 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002066.D

Acq: 27 May 2018 14:13

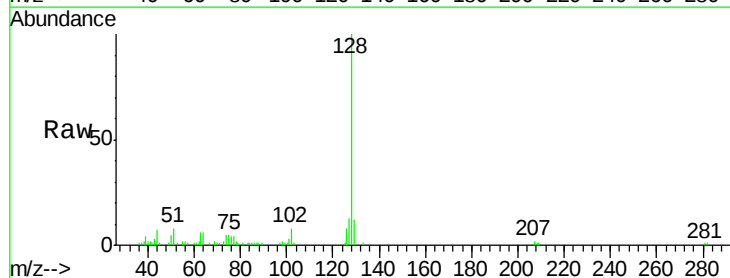
Tgt Ion: 128 Resp: 13286

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 12.1 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) (-)

