

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002069.D
 Acq On : 27 May 2018 15:32
 Operator : JC/MD
 Sample : J3104-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 02:56:08 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	321851	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	450101	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	411850	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	223842	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	211066	36.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.38%	
35) Dibromofluoromethane	5.51	113	164485	36.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.08%	
50) Toluene-d8	8.72	98	641639	39.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.76%	
62) 4-Bromofluorobenzene	11.14	95	231580	36.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.64%	

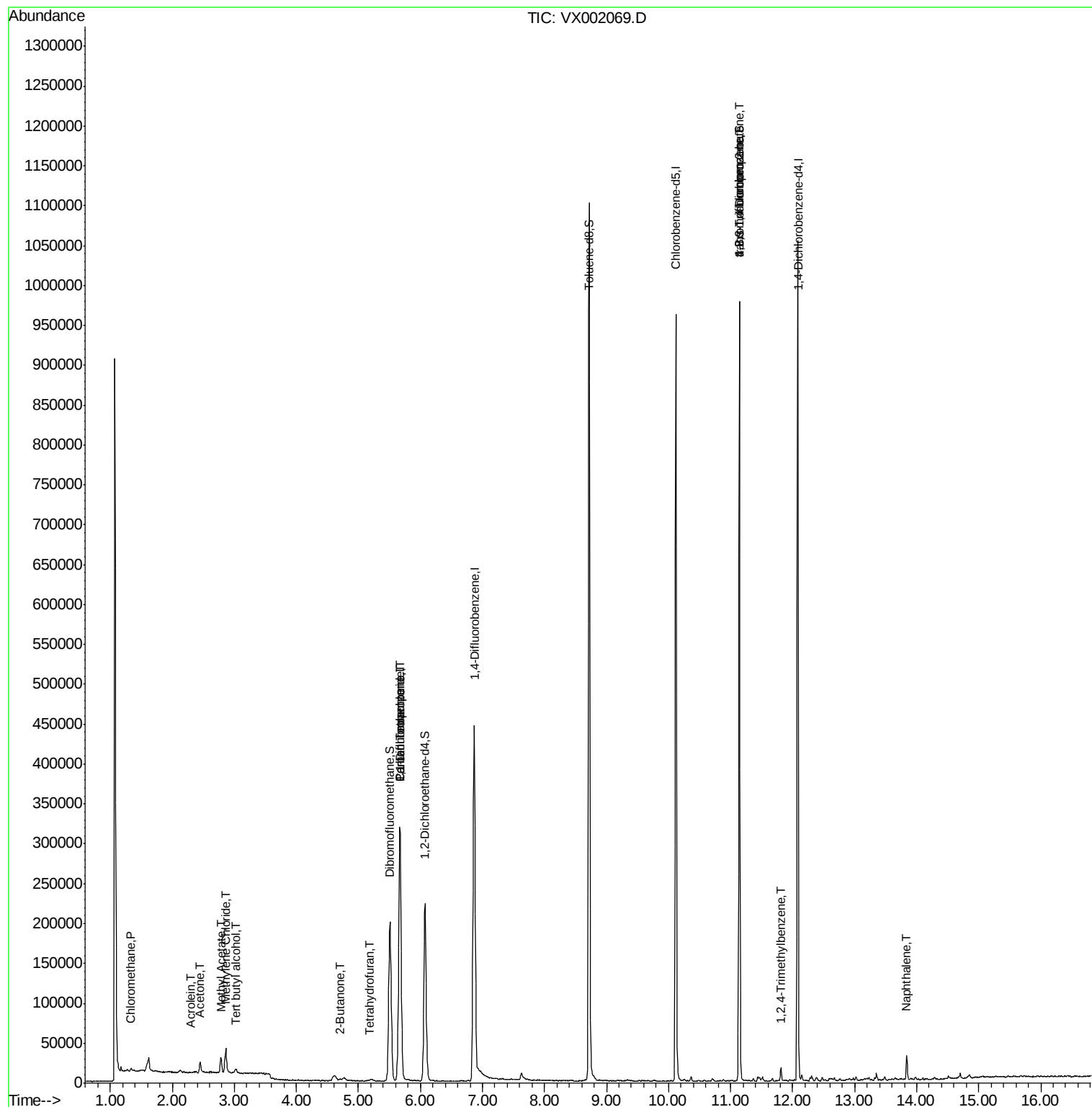
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	89	Below Cal	#	41
3) Chloromethane	1.33	50	3548	0.72	ug/l	97
5) Bromomethane	1.65	94	1121	Below Cal		83
11) Tert butyl alcohol	3.03	59	3451	3.06	ug/l	# 71
13) Acrolein	2.30	56	290	0.59	ug/l	# 45
16) Acetone	2.45	43	14108	6.35	ug/l	99
18) Methyl Acetate	2.78	43	23524	3.34	ug/l	98
20) Methylene Chloride	2.86	84	14003	2.04	ug/l	97
21) trans-1,2-Dichloroethene	3.16	96	418	Below Cal	#	17
25) 2-Butanone	4.71	43	2628	0.65	ug/l	99
28) Bromochloromethane	5.03	49	49	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	1239	0.47	ug/l	# 52
36) 1,1-Dichloropropene	5.67	75	21558	3.44	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	29855	4.09	ug/l	# 13
41) Methacrylonitrile	5.06	41	233	Below Cal	#	47
74) N-amyl acetate	6.48	43	71	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.28	83	19	Below Cal	#	52
76) 1,2,3-Trichloropropane	11.14	75	122550	22.79	ug/l	# 33
79) 2-Chlorotoluene	11.43	91	962	Below Cal	#	48
81) trans-1,4-Dichloro-2-buten	11.14	75	122550	54.78	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.81	105	6775	0.40	ug/l	97
95) Naphthalene	13.84	128	18585	0.92	ug/l	97

(#) = 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: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

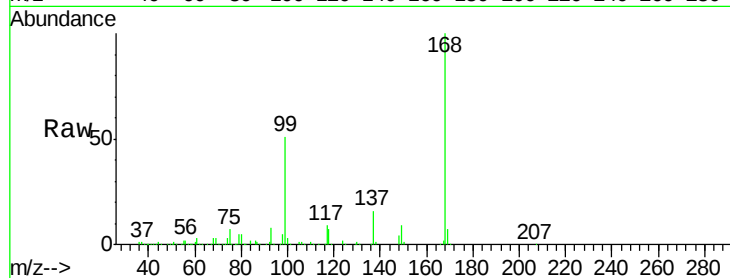
ClientSampleId :

Tot Ion:168 Resp: 321851

Ion Ratio Lower Upper

168 100

99 51.0 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

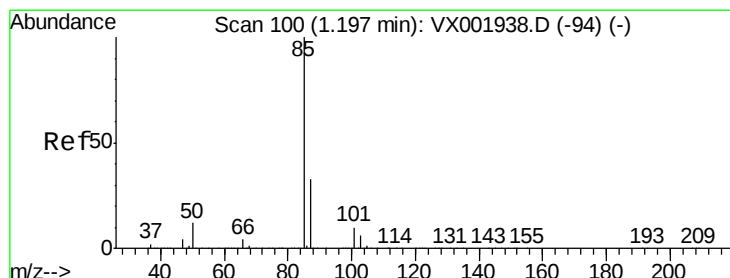
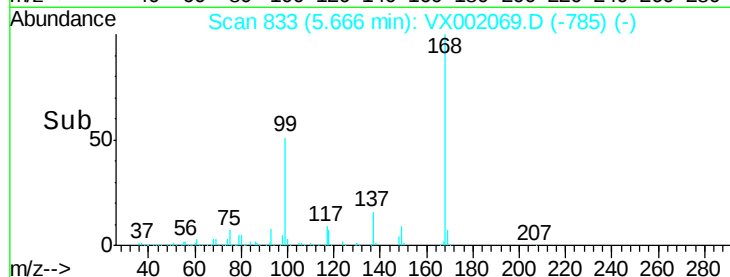
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002069.D

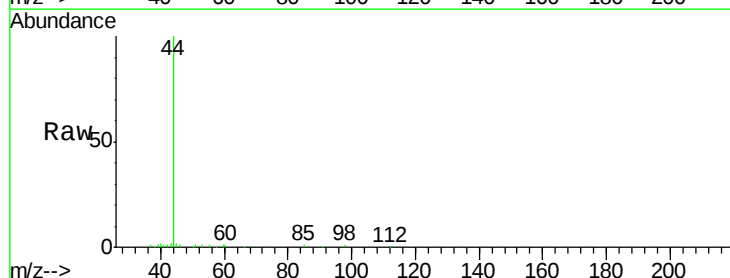
Acq: 27 May 2018 15:32

Tgt Ion: 85 Resp: 89

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

200

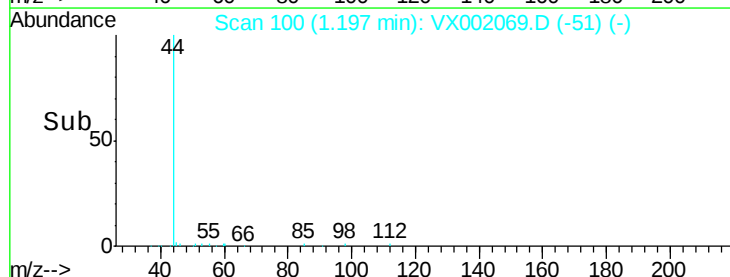
150

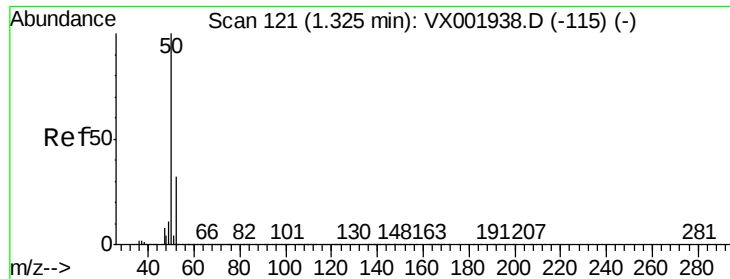
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.72 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

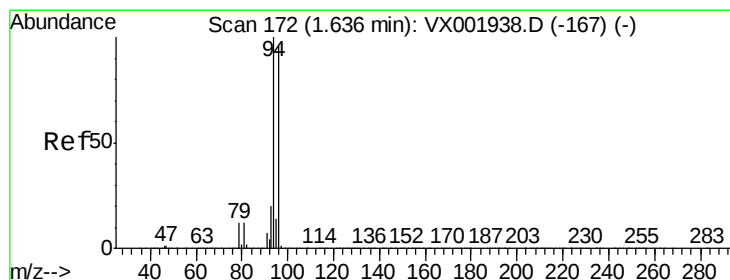
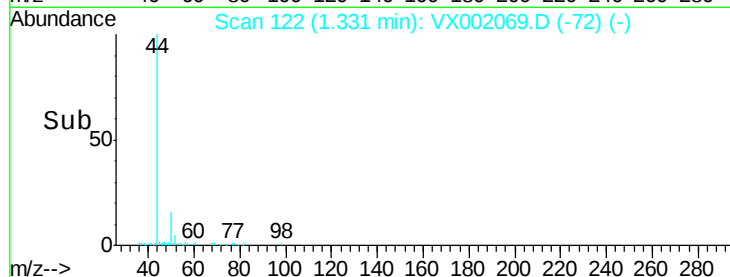
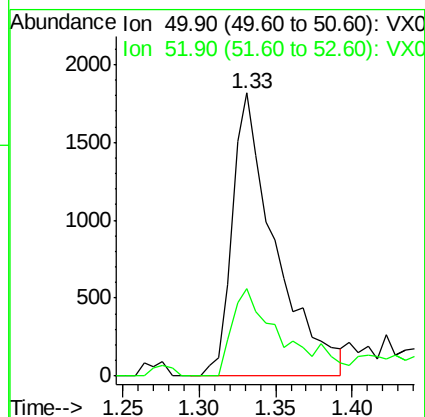
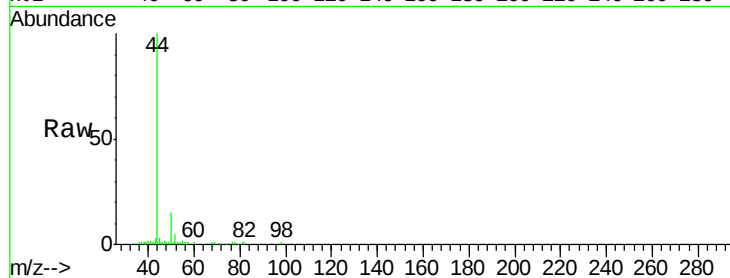
ClientSampleId :

Tot Ion: 50 Resp: 3548

Ion Ratio Lower Upper

50 100

52 31.0 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002069.D

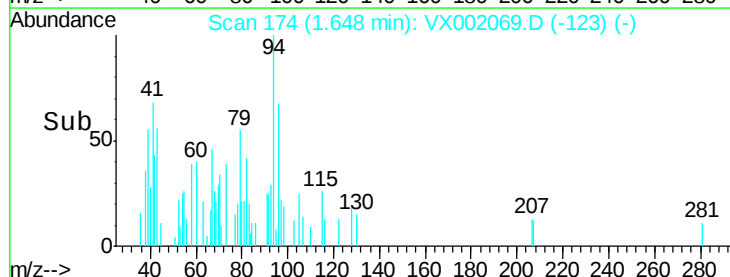
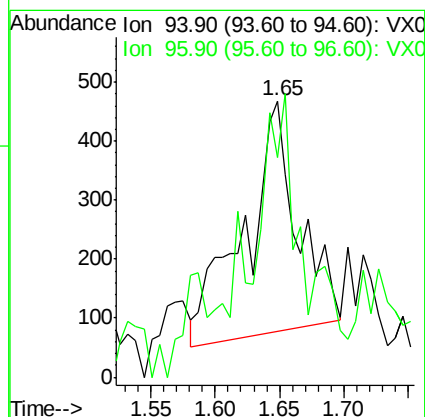
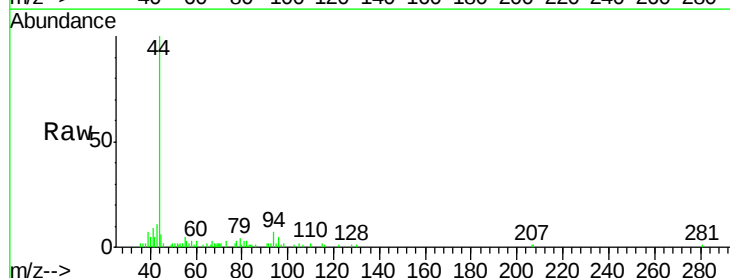
Acq: 27 May 2018 15:32

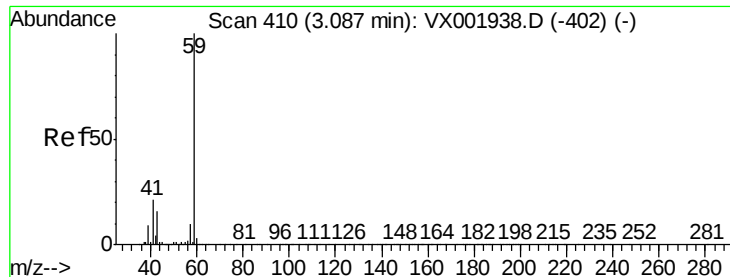
Tgt Ion: 94 Resp: 1121

Ion Ratio Lower Upper

94 100

96 78.5 75.9 113.9



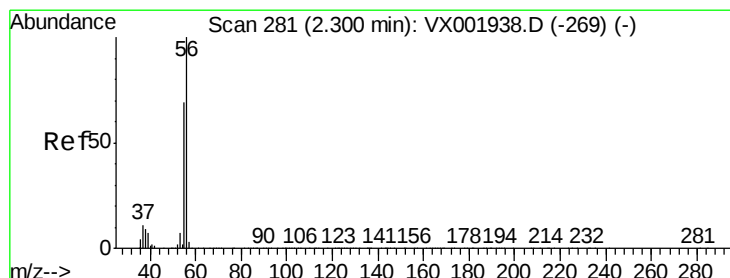
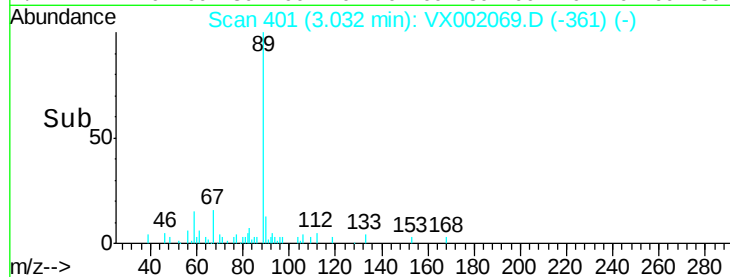
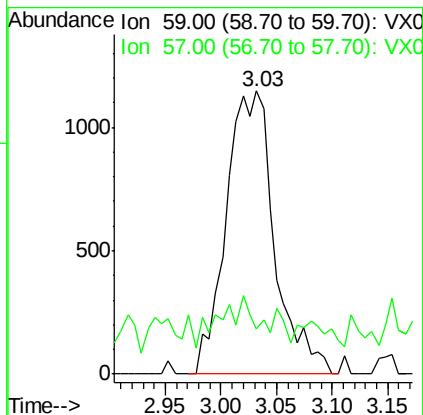
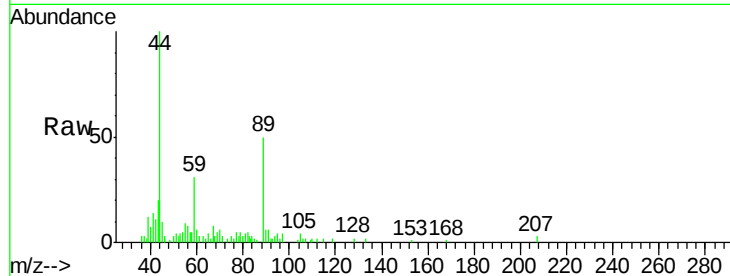


#11

Tert butvl alcohol
Concen: 3.06 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002069.D
Acq: 27 May 2018 15:32

Instrument :
MSVOA_X
ClientSampled :

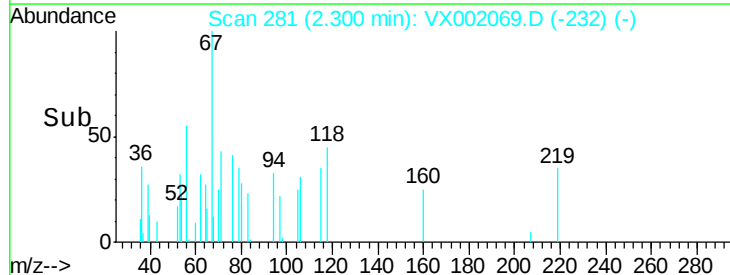
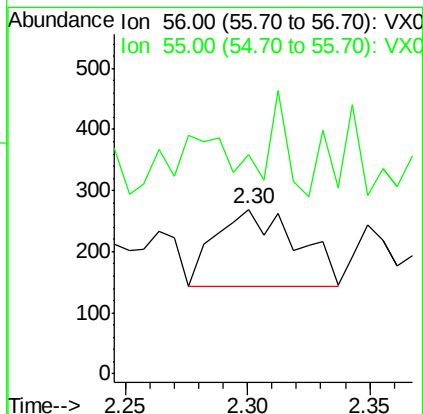
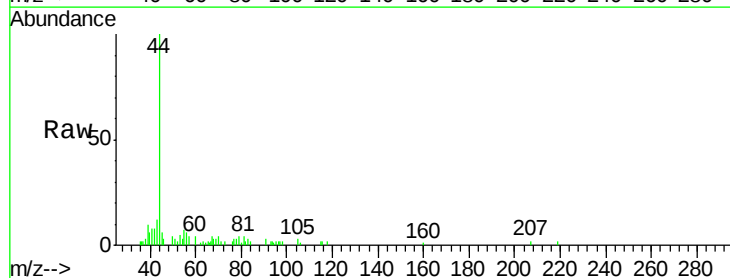
Tot Ion: 59 Resp: 3451
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

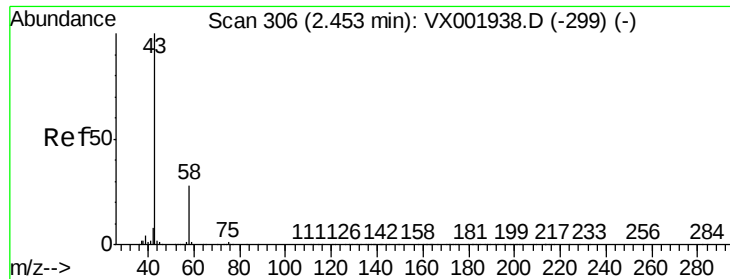


#13

Acrolein
Concen: 0.59 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX002069.D
Acq: 27 May 2018 15:32

Tgt Ion: 56 Resp: 290
Ion Ratio Lower Upper
56 100
55 25.2 56.8 85.2#





#16

Acetone

Concen: 6.35 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

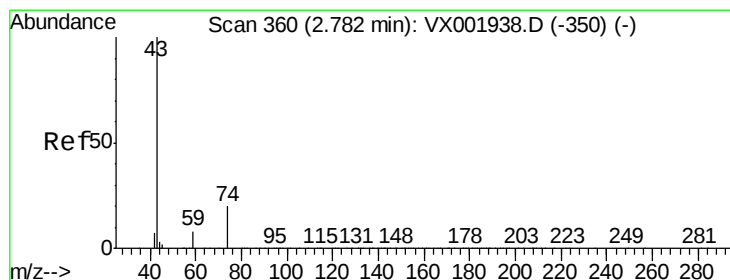
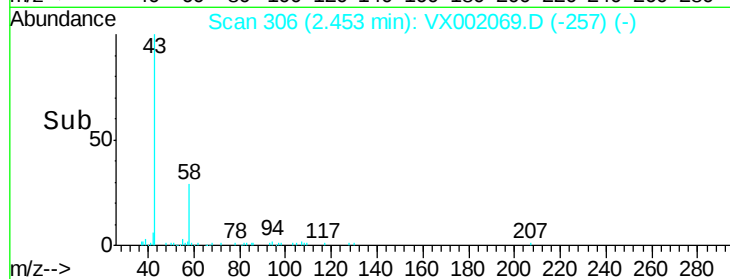
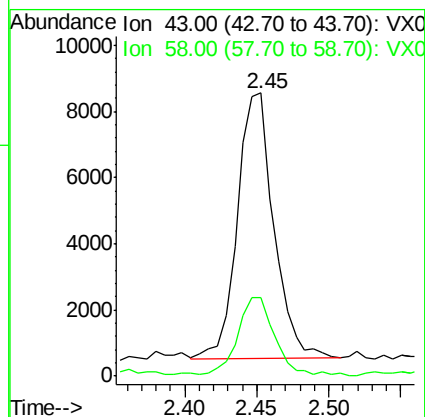
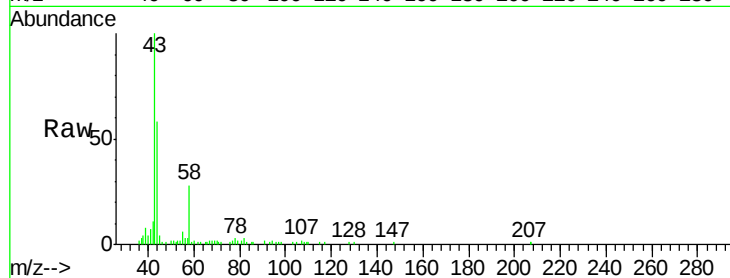
ClientSampleId :

Tot Ion: 43 Resp: 14108

Ion Ratio Lower Upper

43 100

58 28.6 22.3 33.5



#18

Methyl Acetate

Concen: 3.34 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002069.D

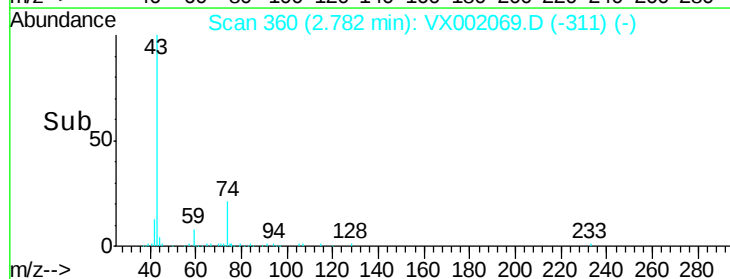
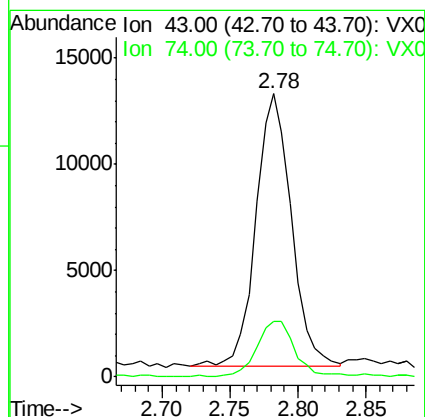
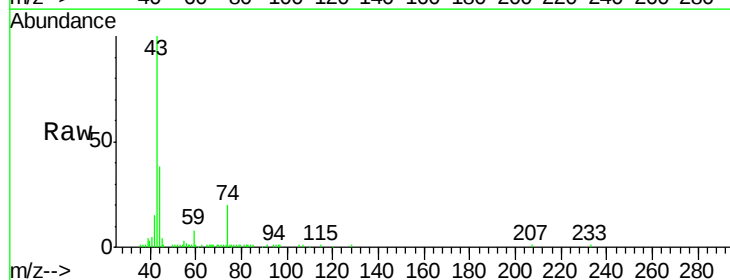
Acq: 27 May 2018 15:32

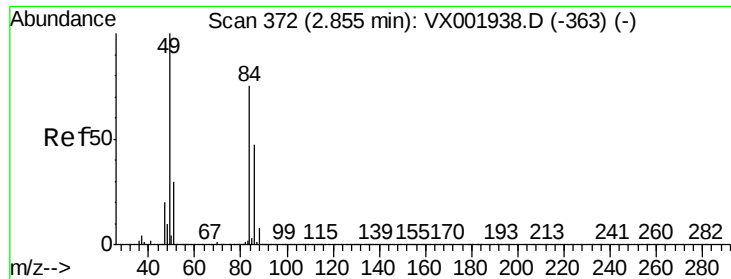
Tgt Ion: 43 Resp: 23524

Ion Ratio Lower Upper

43 100

74 22.1 16.8 25.2

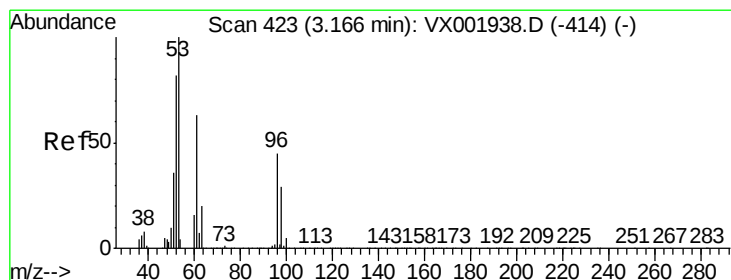
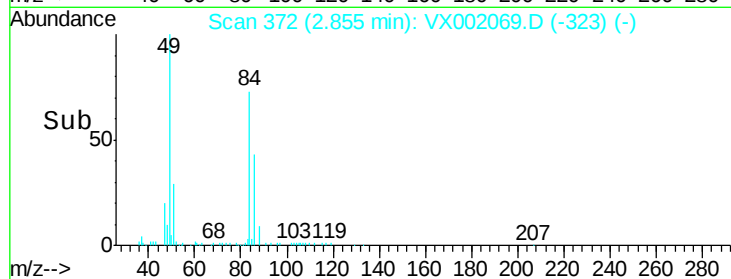
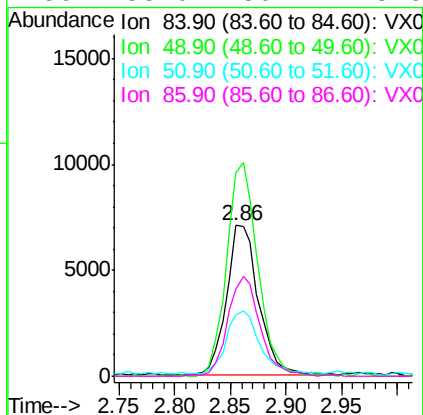
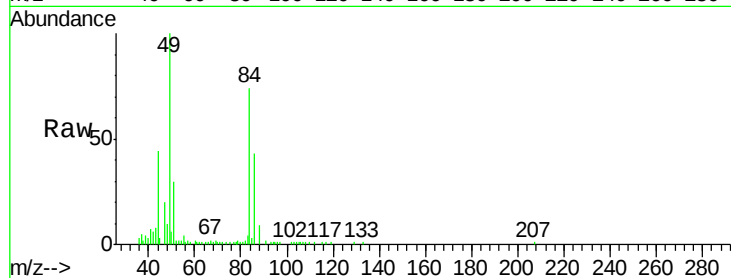




#20
Methvlene Chloride
Concen: 2.04 ua/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX002069.D
Acq: 27 May 2018 15:32

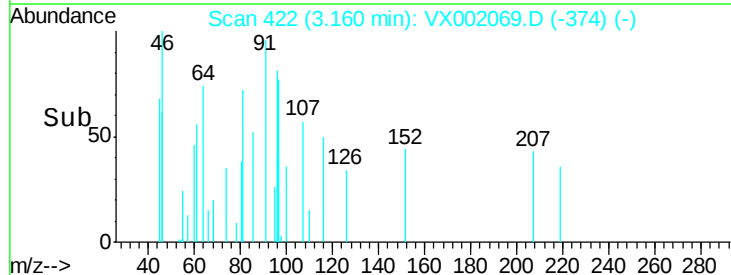
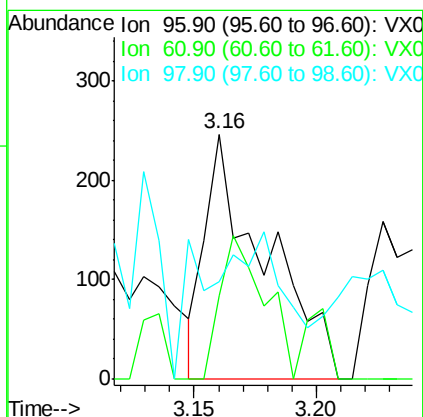
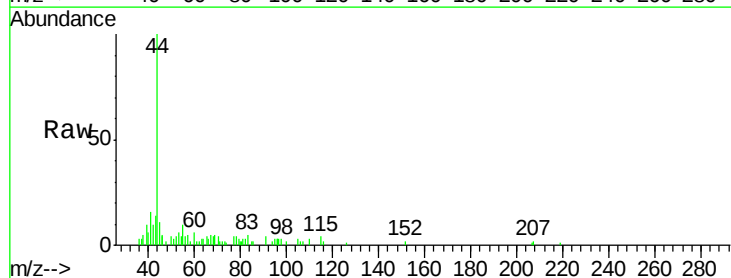
Instrument :
MSVOA_X
ClientSampleId :

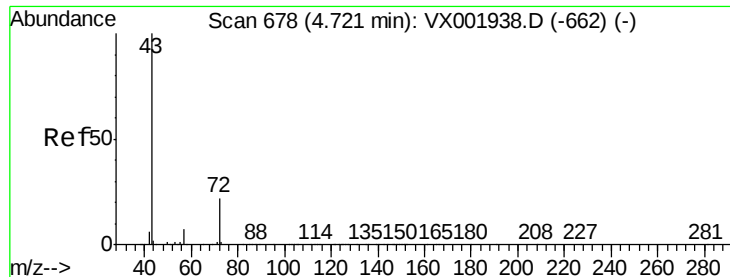
Tot Ion:	84	Resp:	14003
Ion	Ratio	Lower	Upper
84	100		
49	136.6	107.2	160.8
51	39.2	32.4	48.6
86	58.0	50.4	75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.16 min Scan# 422
Delta R.T. -0.01 min
Lab File: VX002069.D
Acq: 27 May 2018 15:32

Tgt Ion:	96	Resp:	418
Ion	Ratio	Lower	Upper
96	100		
61	34.1	113.3	169.9#
98	6.5	51.7	77.5#





#25

2-Butanone

Concen: 0.65 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

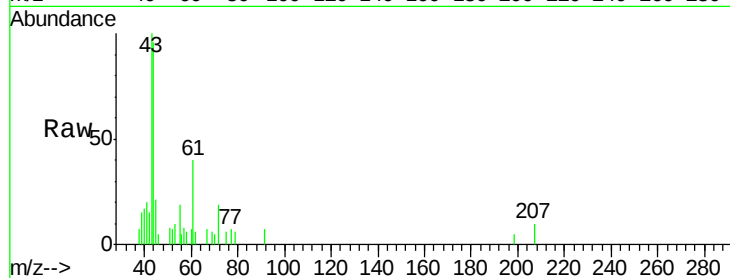
ClientSampled :

Tot Ion: 43 Resp: 2628

Ion Ratio Lower Upper

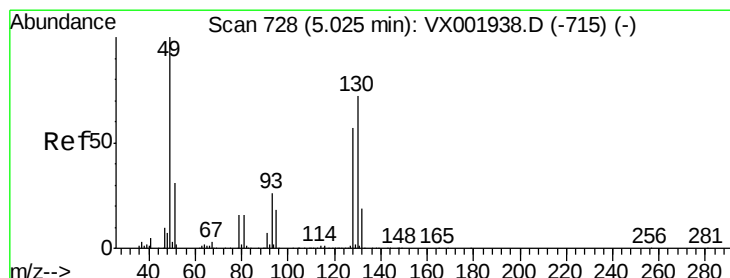
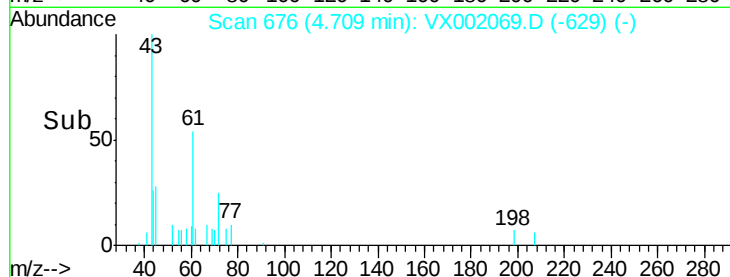
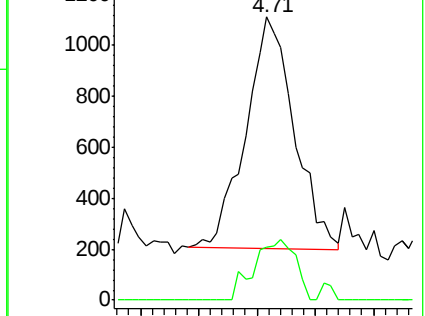
43 100

72 23.1 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

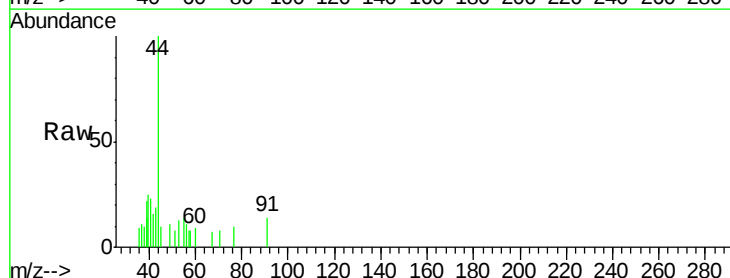
Tgt Ion: 49 Resp: 49

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

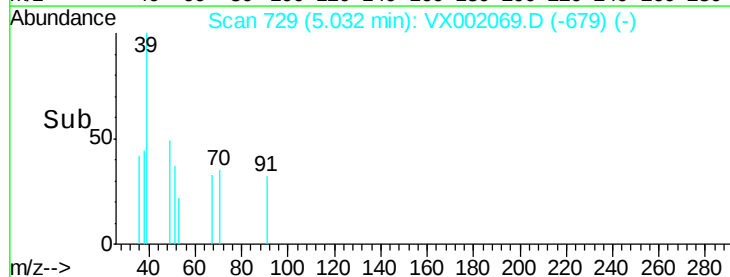
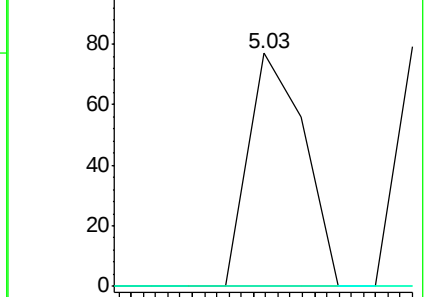
130 0.0 59.4 89.2#

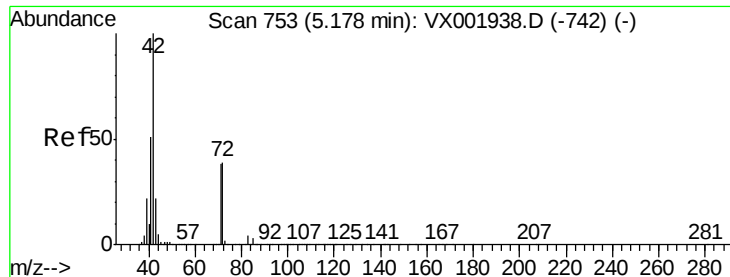


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

ClientSampleId :

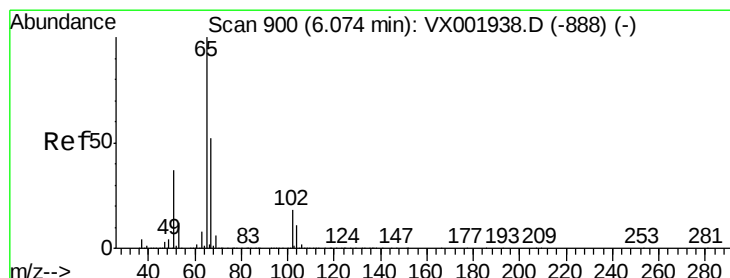
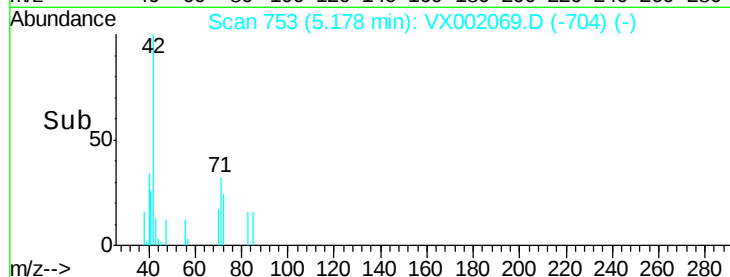
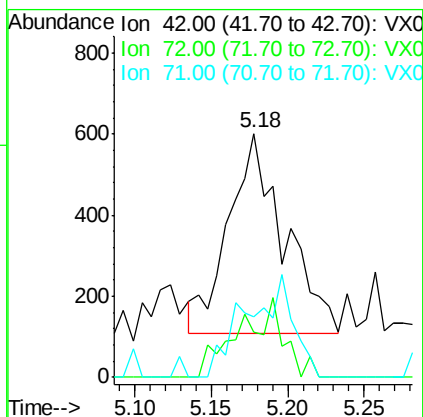
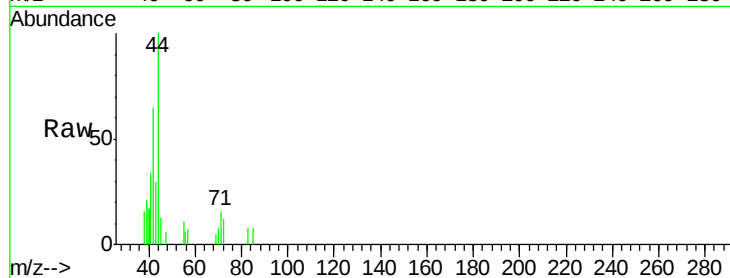
Tot Ion: 42 Resp: 1239

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 18.5 29.5 44.3#



#33

1,2-Dichloroethane-d4

Concen: 36.69 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002069.D

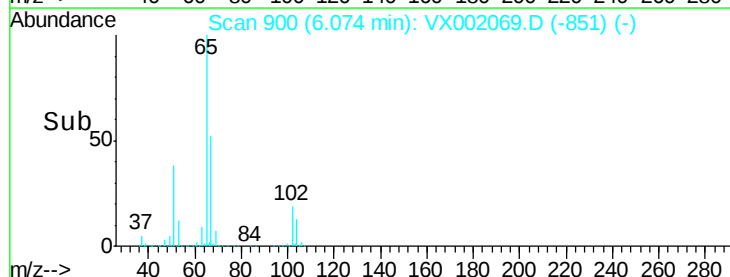
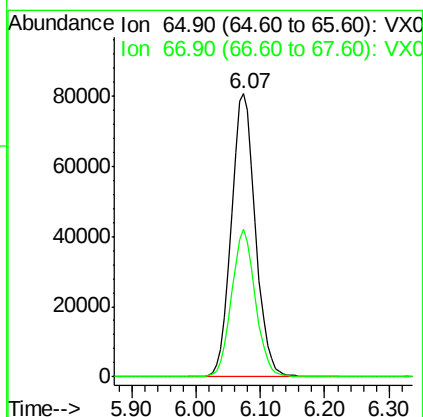
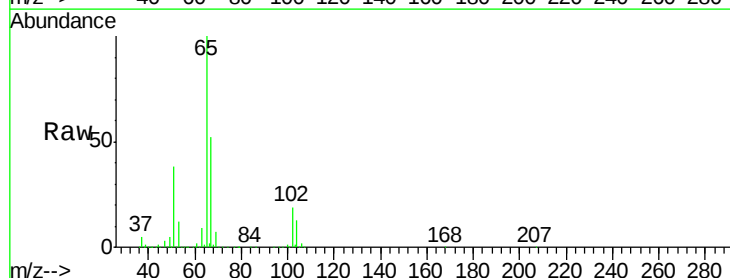
Acq: 27 May 2018 15:32

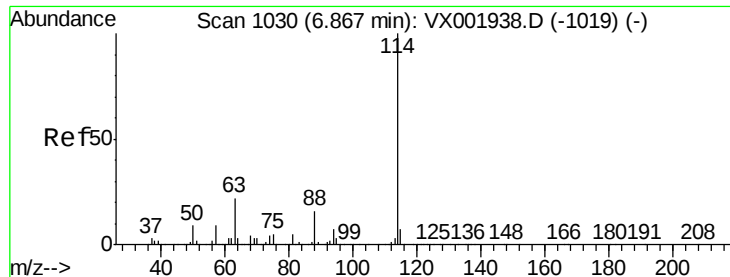
Tgt Ion: 65 Resp: 211066

Ion Ratio Lower Upper

65 100

67 51.3 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: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

ClientSampleId :

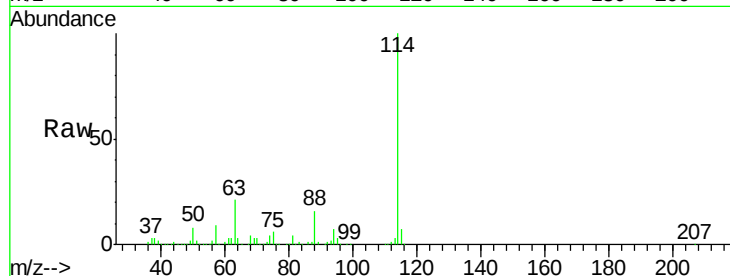
Tot Ion:114 Resp: 450101

Ion Ratio Lower Upper

114 100

63 21.3 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

250000

200000

150000

100000

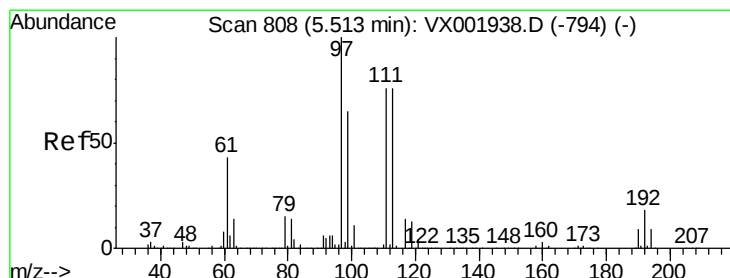
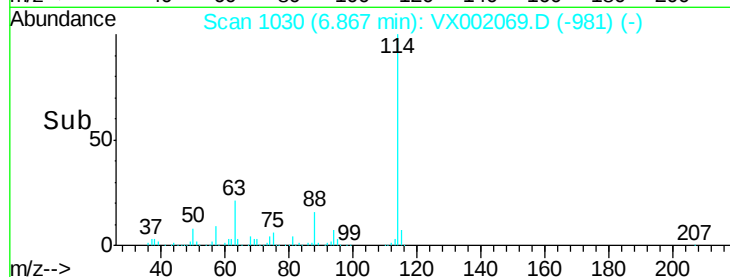
50000

0

6.87

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 36.54 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

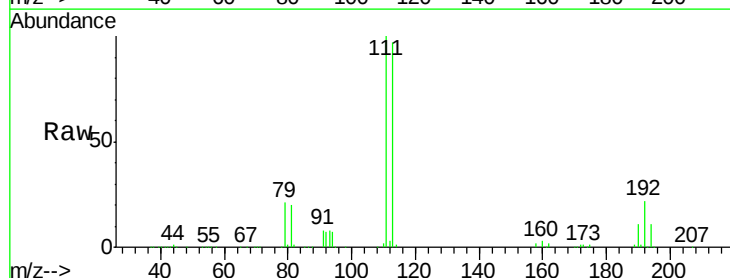
Tgt Ion:113 Resp: 164485

Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

192 23.4 18.9 28.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

80000

60000

40000

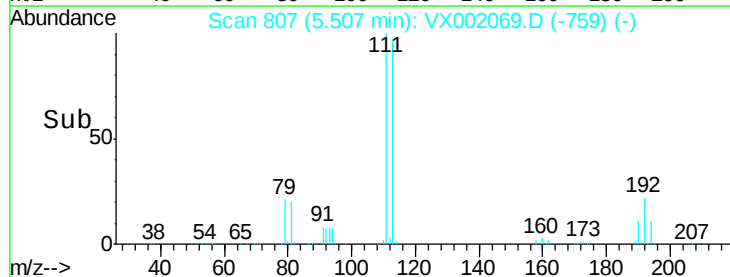
20000

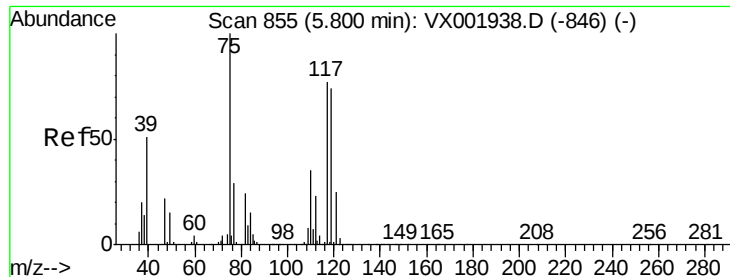
0

5.51

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 3.44 ug/l

RT: 5.67 min Scan# 833

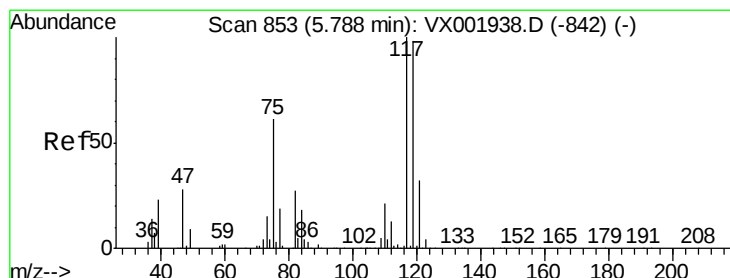
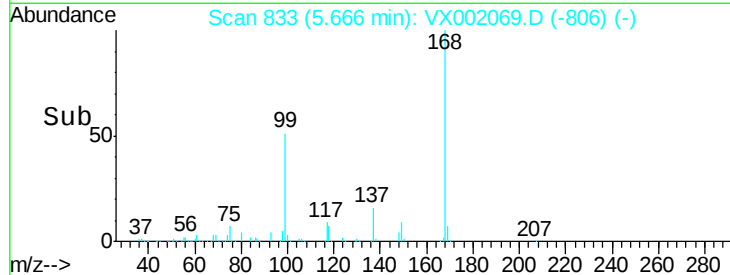
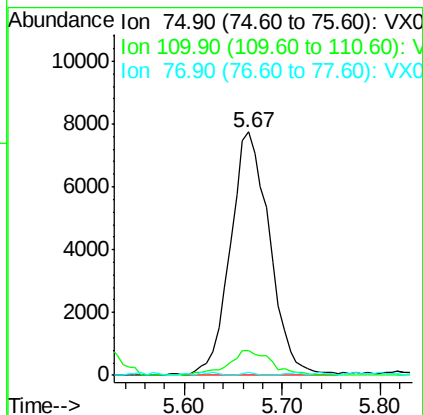
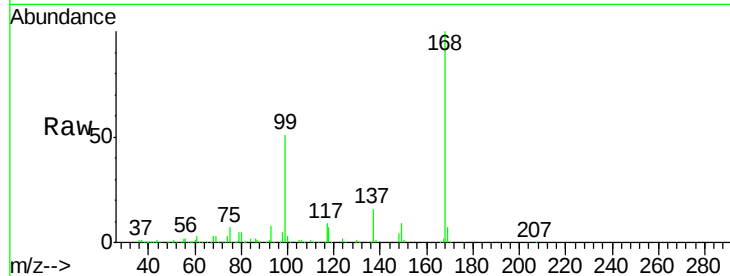
Delta R.T. -0.13 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	21558
Ion	Ratio	Lower	Upper
75	100		
110	11.1	17.4	52.2#
77	0.3	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 4.09 ug/l

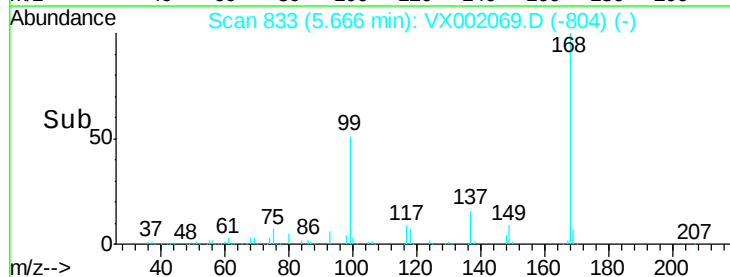
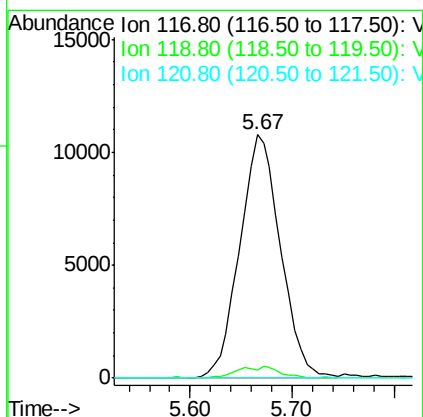
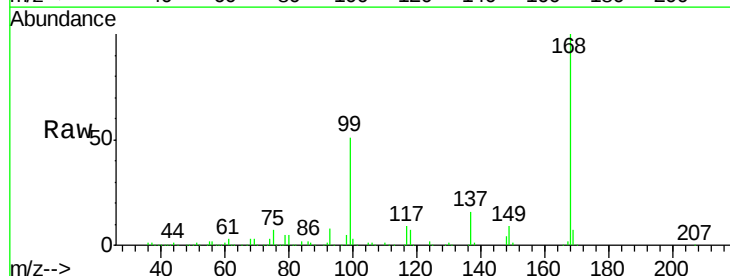
RT: 5.67 min Scan# 833

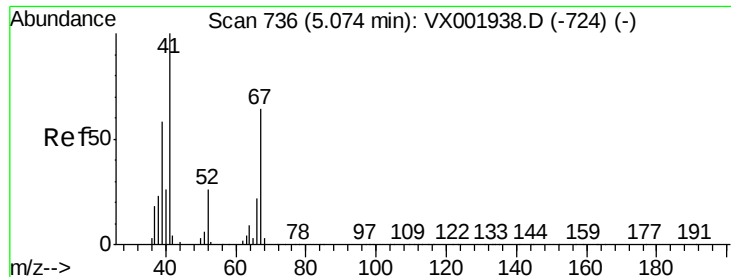
Delta R.T. -0.12 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Tgt Ion:	117	Resp:	29855
Ion	Ratio	Lower	Upper
117	100		
119	3.1	78.5	117.7#
121	0.0	25.5	38.3#

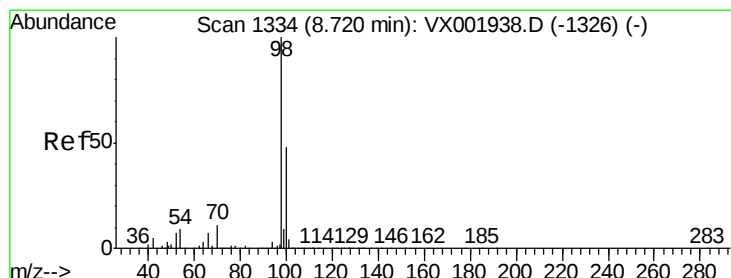
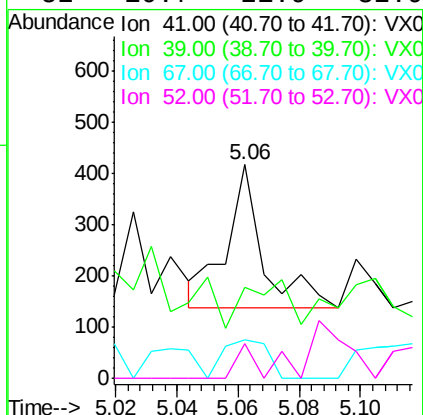
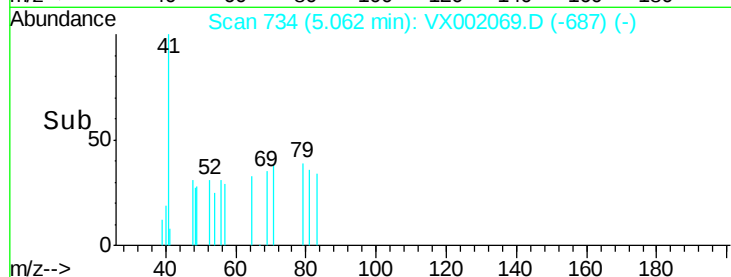
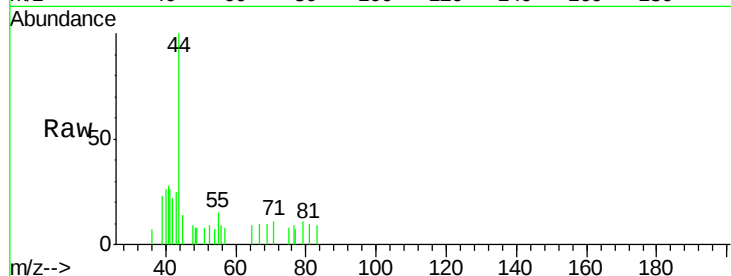




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.06 min Scan# 734
Delta R.T. -0.01 min
Lab File: VX002069.D
Acq: 27 May 2018 15:32

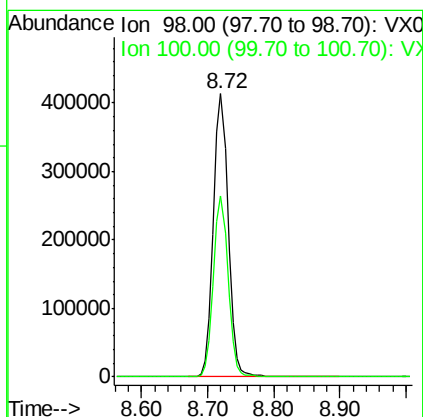
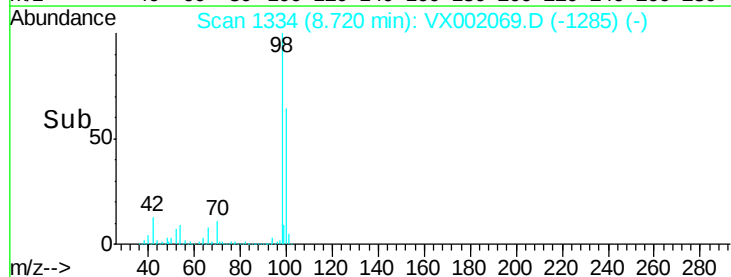
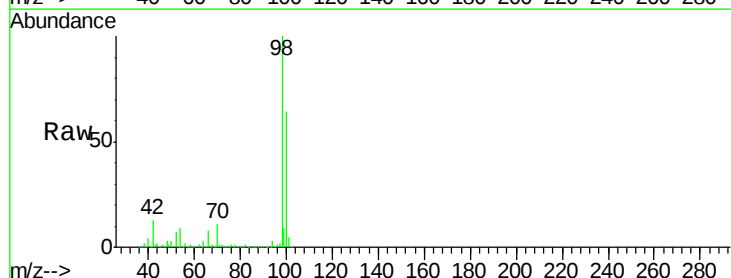
Instrument :
MSVOA_X
ClientSampleId :

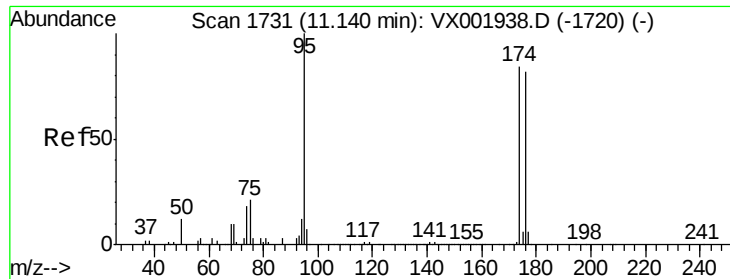
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.0	69.0#
67	31.8	50.6	75.8#
52	10.7	21.9	32.9#



#50
Toluene-d8
Concen: 39.38 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002069.D
Acq: 27 May 2018 15:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.2	51.5	77.3





#62

4-Bromofluorobenzene

Concen: 36.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

ClientSampled :

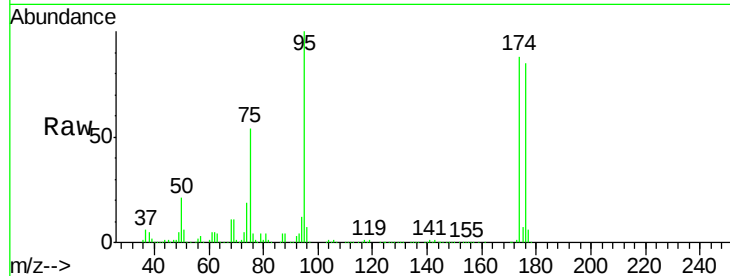
Tot Ion: 95 Resp: 231580

Ion Ratio Lower Upper

95 100

174 91.3 0.0 178.8

176 88.7 0.0 175.6



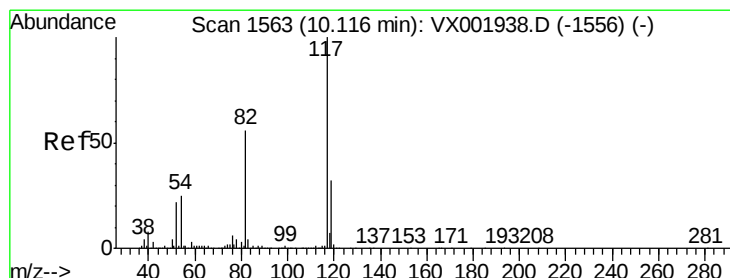
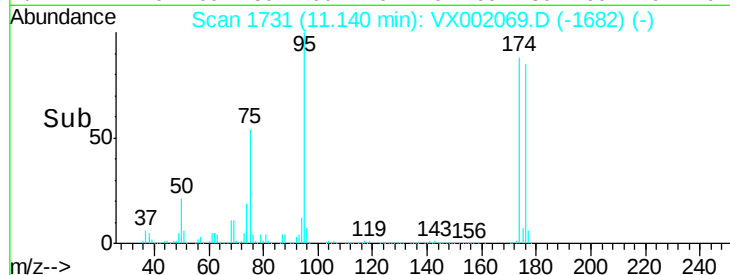
Abundance Ion 94.90 (94.60 to 95.60): VX001938.D (-1720) (-)

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

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

11.14

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

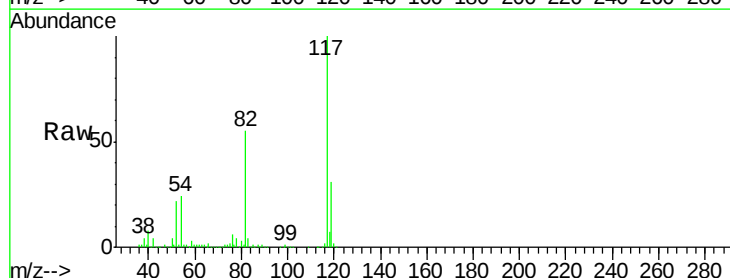
Tgt Ion: 117 Resp: 411850

Ion Ratio Lower Upper

117 100

82 55.4 44.8 67.2

119 31.1 25.5 38.3



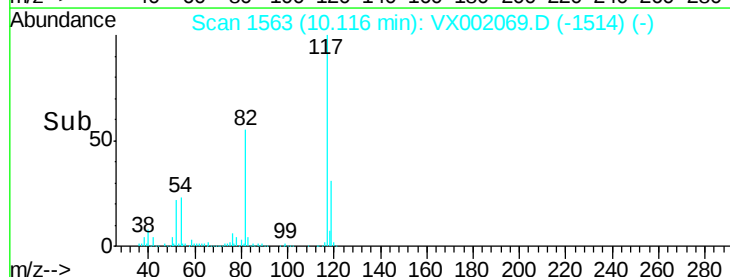
Abundance Ion 116.90 (116.60 to 117.60): VX001938.D (-1556) (-)

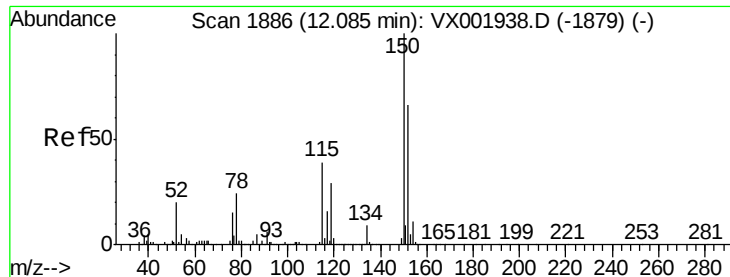
Ion 82.00 (81.70 to 82.70): VX001938.D (-1556) (-)

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

10.12

Time-->

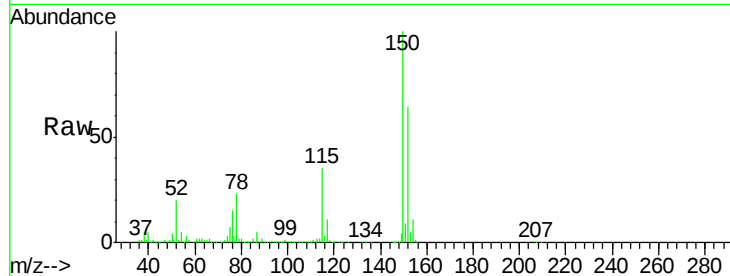




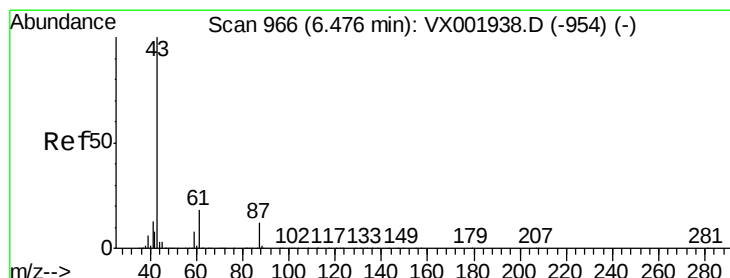
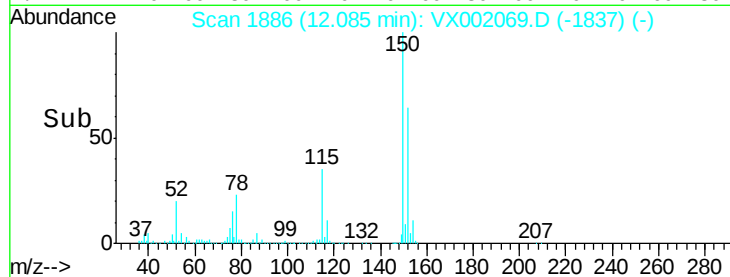
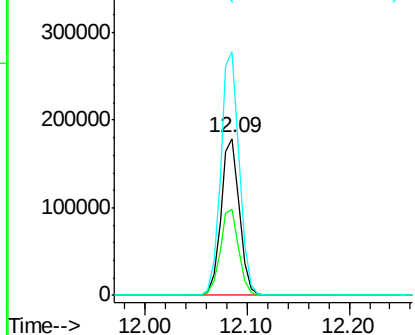
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.09 min Scan# 1886
 Delta R.T. 0.00 min
 Lab File: VX002069.D
 Acq: 27 May 2018 15:32

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:152 Resp: 223842
 Ion Ratio Lower Upper
 152 100
 115 55.7 42.3 126.8
 150 157.2 0.0 351.0

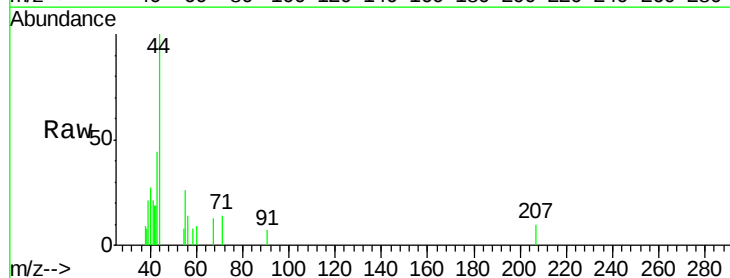


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

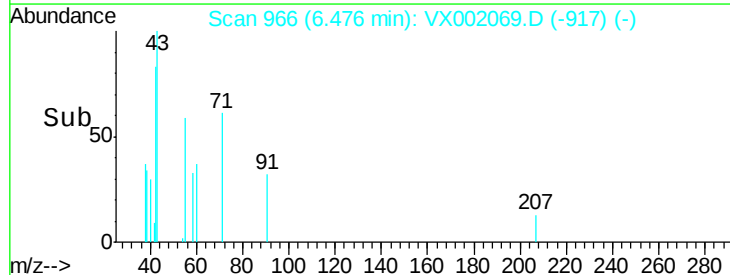
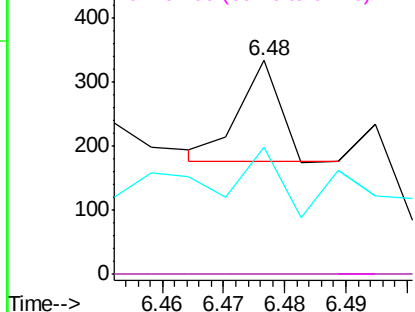


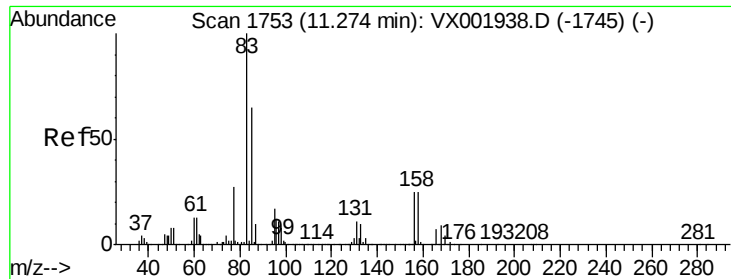
#74
 N-ethyl acetate
 Concen: Below Cal
 RT: 6.48 min Scan# 966
 Delta R.T. 0.00 min
 Lab File: VX002069.D
 Acq: 27 May 2018 15:32

Tgt Ion: 43 Resp: 71
 Ion Ratio Lower Upper
 43 100
 70 0.0 0.1 0.1#
 55 46.5 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: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

ClientSampleId :

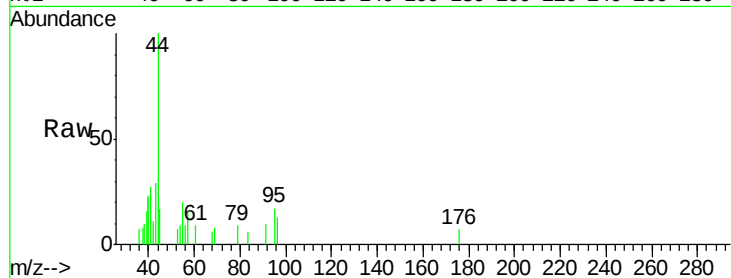
Tot Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

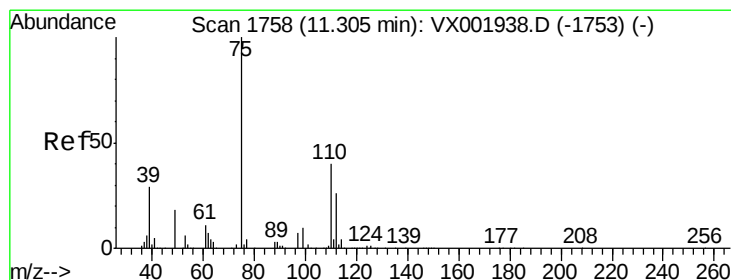
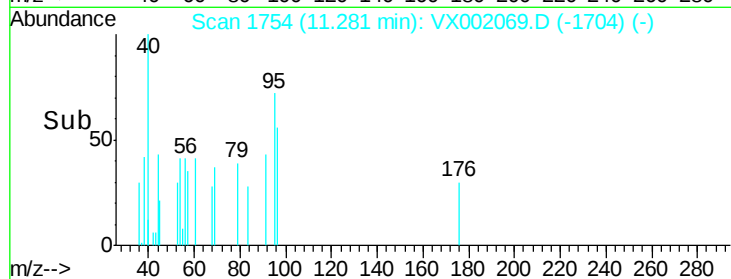
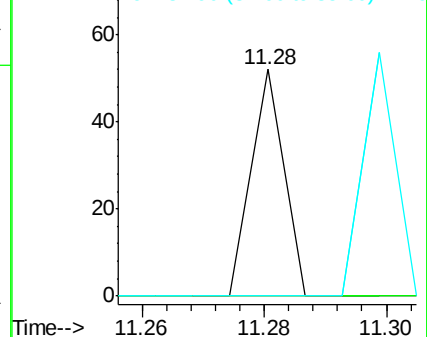
85 105.3 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 22.79 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002069.D

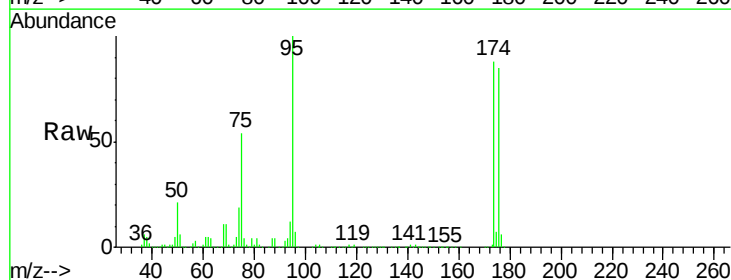
Acq: 27 May 2018 15:32

Tgt Ion: 75 Resp: 122550

Ion Ratio Lower Upper

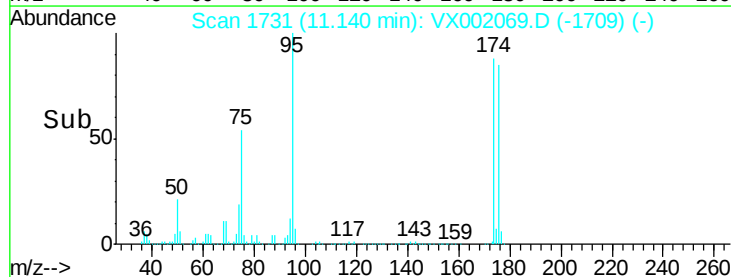
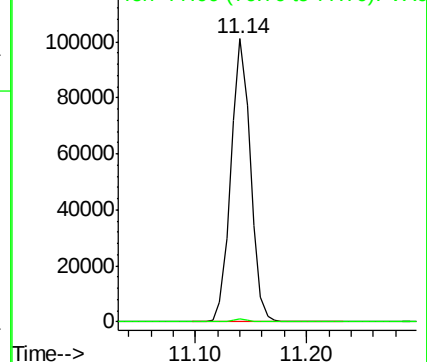
75 100

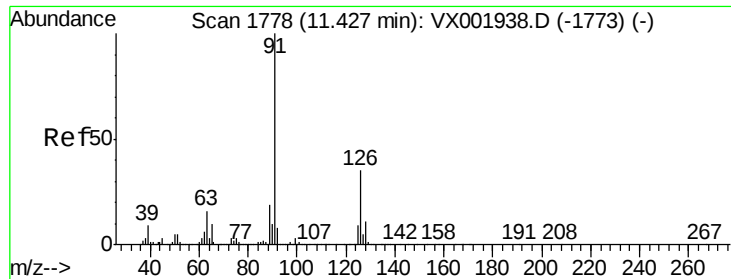
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

Instrument :

MSVOA_X

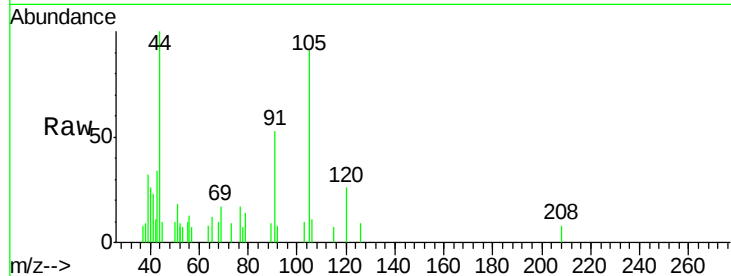
ClientSampled :

Tot Ion: 91 Resp: 962

Ion Ratio Lower Upper

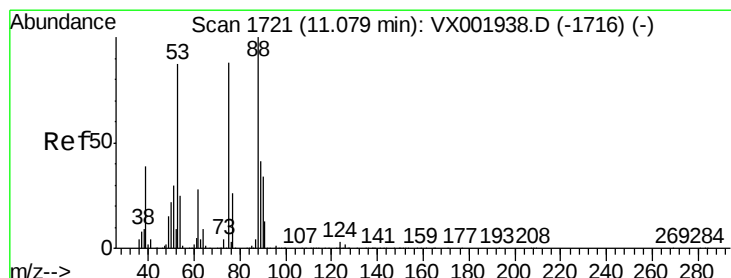
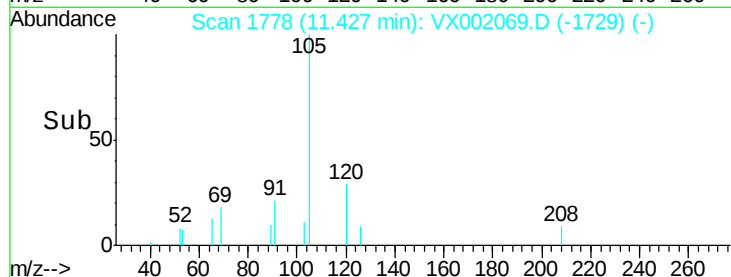
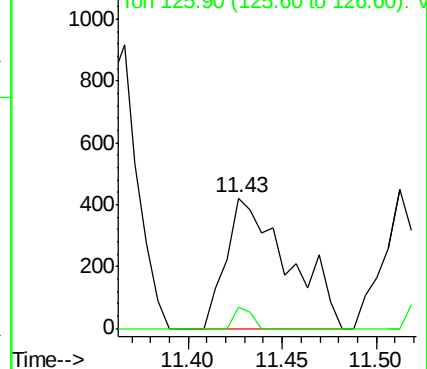
91 100

126 4.6 17.4 52.2#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 54.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002069.D

Acq: 27 May 2018 15:32

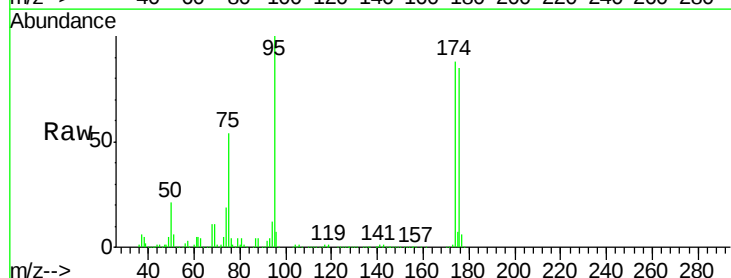
Tgt Ion: 75 Resp: 122550

Ion Ratio Lower Upper

75 100

53 0.2 78.0 117.0#

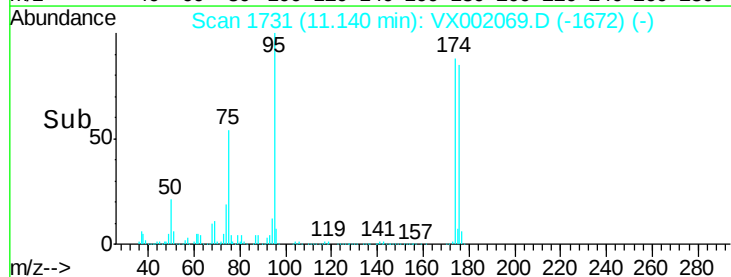
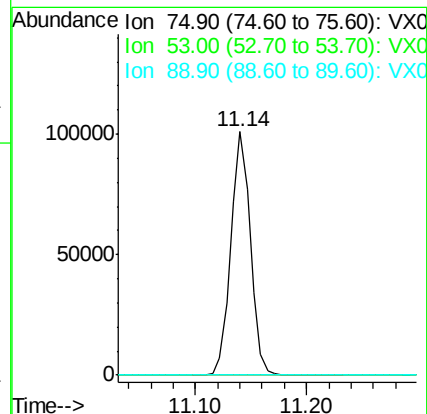
89 0.0 39.4 59.2#

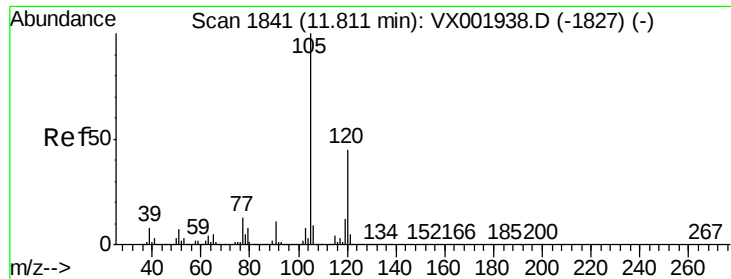


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

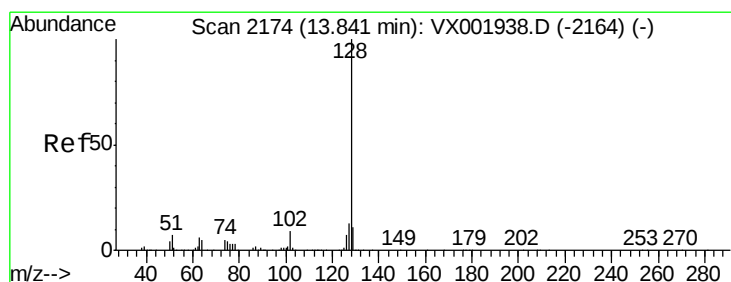
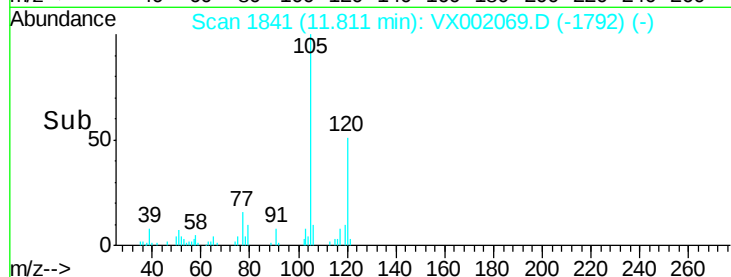
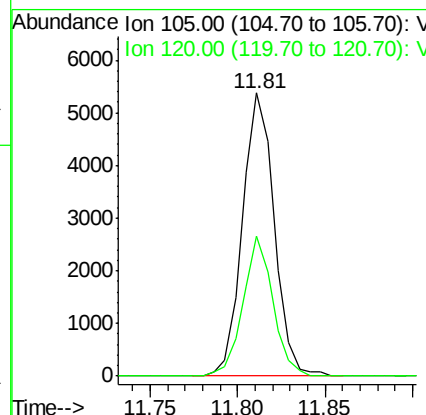
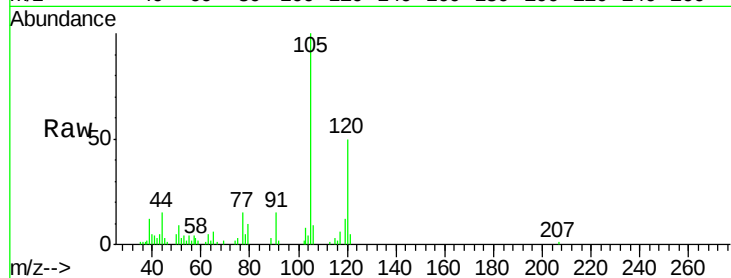




#84
 1,2,4-Trimethylbenzene
 Concen: 0.40 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX002069.D
 Acq: 27 May 2018 15:32

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:105 Resp: 6775
 Ion Ratio Lower Upper
 105 100
 120 46.4 22.1 66.5



#95
 Naphthalene
 Concen: 0.92 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. 0.00 min
 Lab File: VX002069.D
 Acq: 27 May 2018 15:32

Tgt Ion:128 Resp: 18585
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.4 15.6
 129 11.7 8.8 13.2

