

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060618\
 Data File : VX002352.D
 Acq On : 06 Jun 2018 15:02
 Operator : JC/MD
 Sample : J3311-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 07 03:22:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	225790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	333535	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	312845	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	179882	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	163969	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
35) Dibromofluoromethane	5.51	113	119046	45.39	ug/l	0.00
Spiked Amount			Recovery	=	90.78%	
50) Toluene-d8	8.72	98	482253	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
62) 4-Bromofluorobenzene	11.14	95	170689	44.03	ug/l	0.00
Spiked Amount			Recovery	=	88.06%	

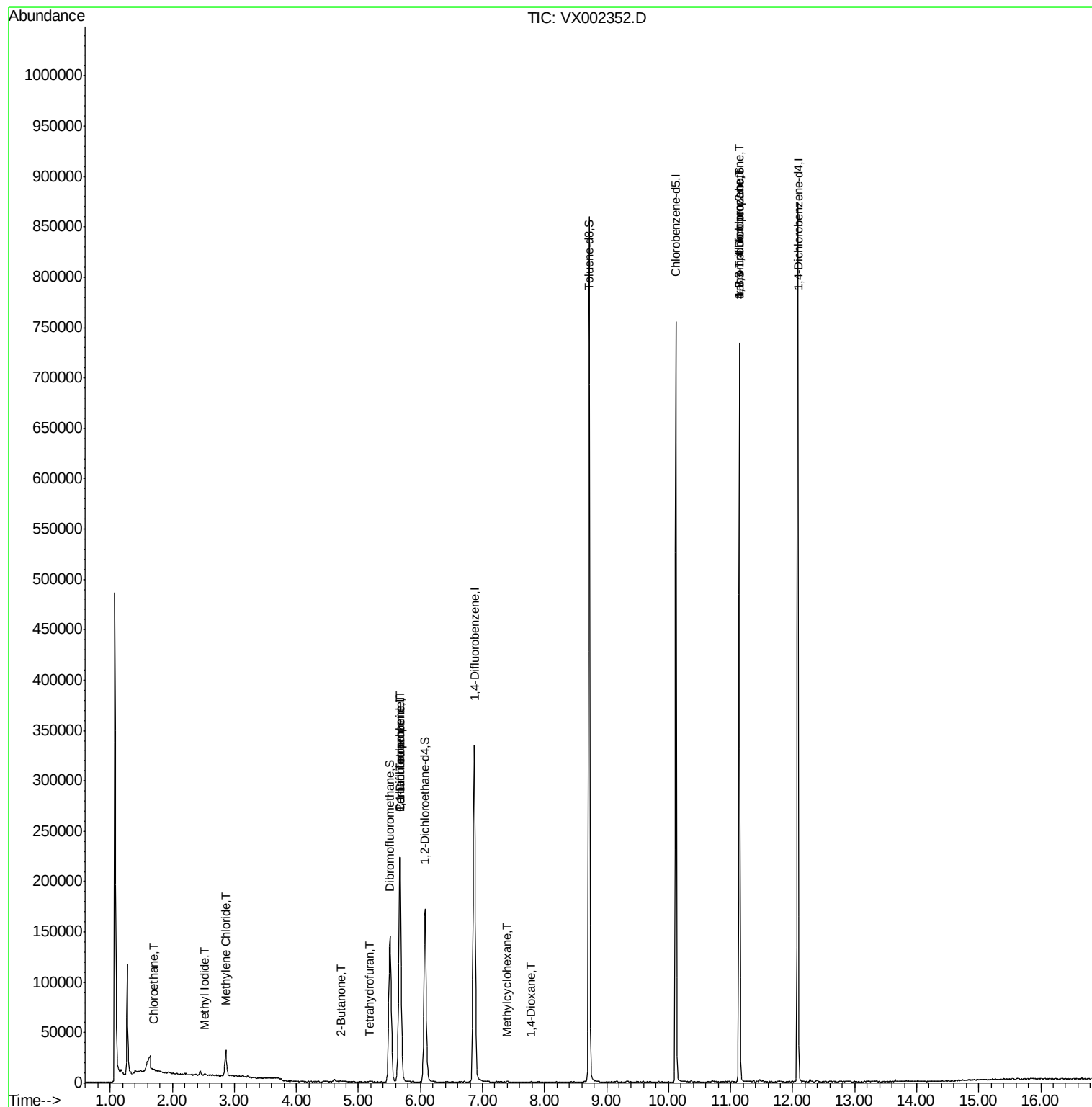
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	514	Below Cal		99
5) Bromomethane	1.64	94	1568	Below Cal		99
6) Chloroethane	1.70	64	1630	0.85 ug/l	#	43
8) Diethyl Ether	2.20	74	241	Below Cal		98
10) Methyl Iodide	2.52	142	1466	0.43 ug/l	#	88
11) Tert butyl alcohol	3.07	59	906	Below Cal		96
13) Acrolein	2.32	56	95	Below Cal	#	71
15) Acrylonitrile	3.16	53	734	Below Cal	#	76
16) Acetone	2.45	43	5435	Below Cal	#	86
18) Methyl Acetate	2.79	43	245	Below Cal	#	73
19) Methyl tert-butyl Ether	3.21	73	269	Below Cal	#	54
20) Methylene Chloride	2.86	84	11749	1.95 ug/l		96
22) Diisopropyl ether	3.89	45	95	Below Cal	#	72
25) 2-Butanone	4.72	43	1423	0.64 ug/l		92
28) Bromochloromethane	5.02	49	20	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	661	0.46 ug/l	#	80
36) 1,1-Dichloropropene	5.67	75	16093	4.59 ug/l	#	52
38) Carbon Tetrachloride	5.67	117	20836	5.68 ug/l	#	16
39) Methylcyclohexane	7.40	83	19	0.27 ug/l	#	56
49) 1,4-Dioxane	7.79	88	27	0.40 ug/l	#	22
76) 1,2,3-Trichloropropane	11.14	75	94044	23.83 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	94044	83.52 ug/l	#	6

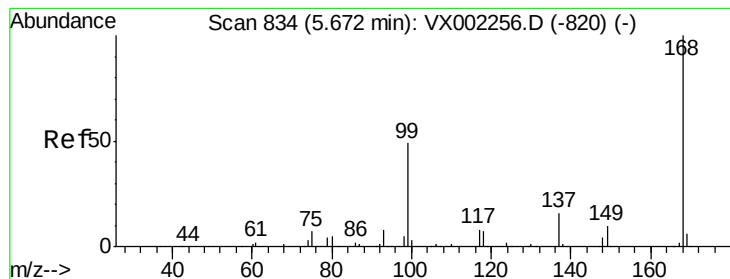
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002352.D

Acq: 06 Jun 2018 15:02

Instrument :

MSVOA_X

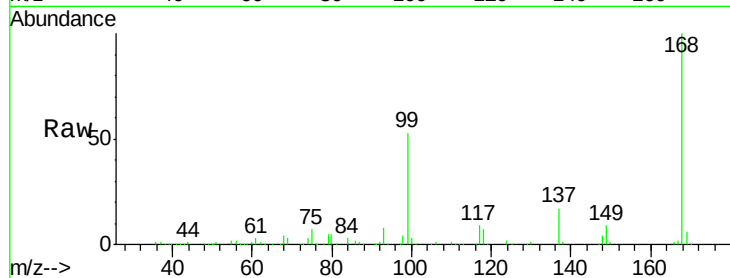
ClientSampled :

Tot Ion:168 Resp: 225790

Ion Ratio Lower Upper

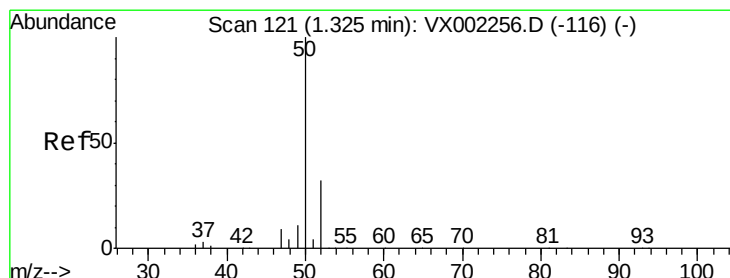
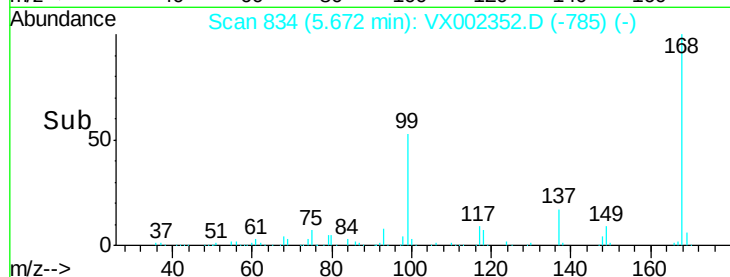
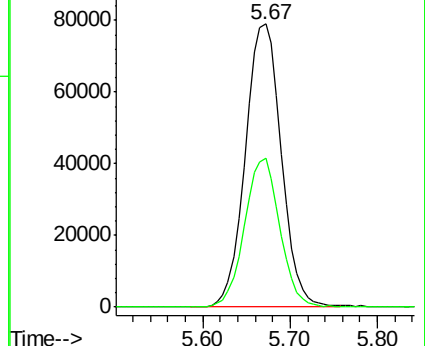
168 100

99 52.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002352.D

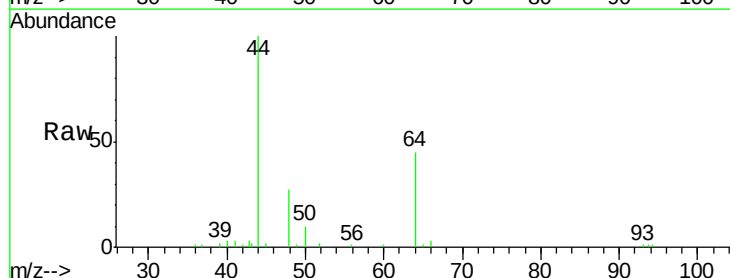
Acq: 06 Jun 2018 15:02

Tgt Ion: 50 Resp: 514

Ion Ratio Lower Upper

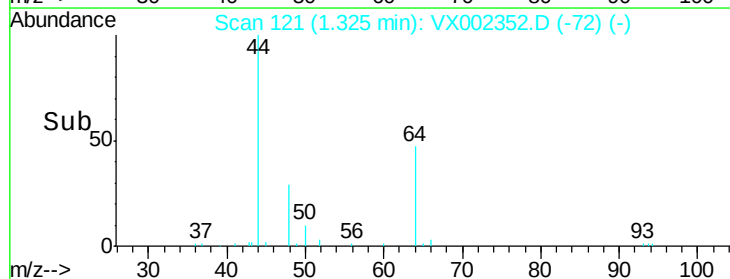
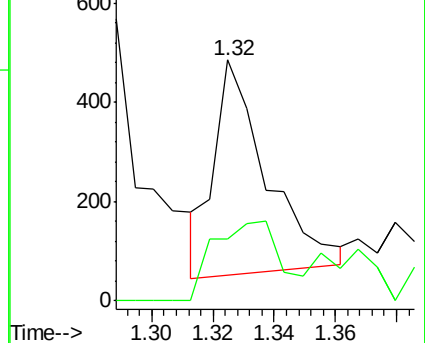
50 100

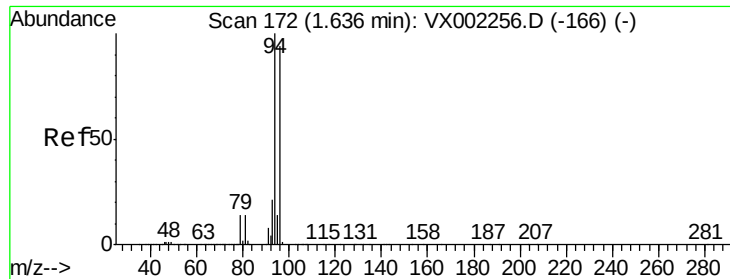
52 32.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002352.D

Acq: 06 Jun 2018 15:02

Instrument :

MSVOA_X

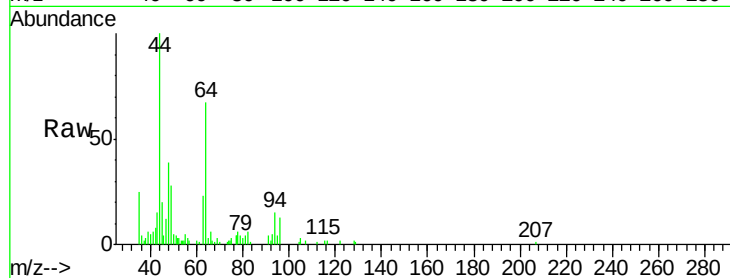
ClientSampleId :

Tot Ion: 94 Resp: 1568

Ion Ratio Lower Upper

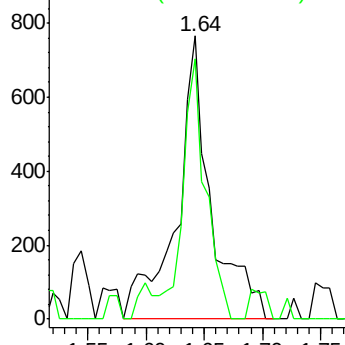
94 100

96 92.2 74.9 112.3

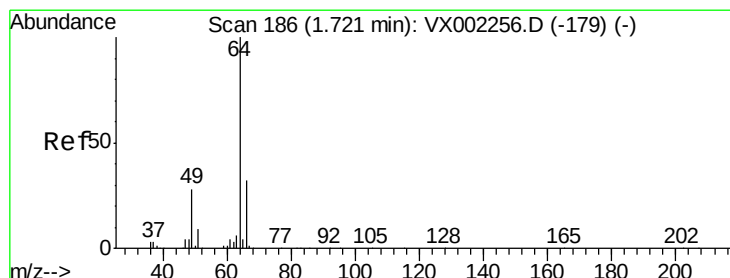
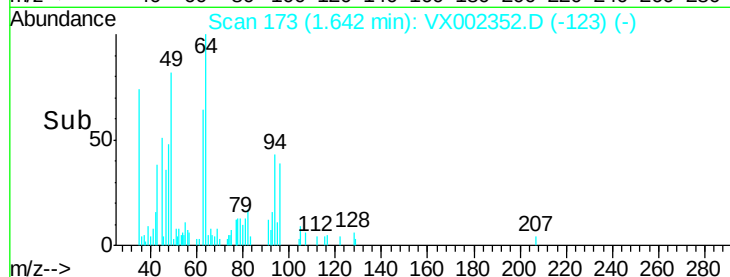


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.85 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX002352.D

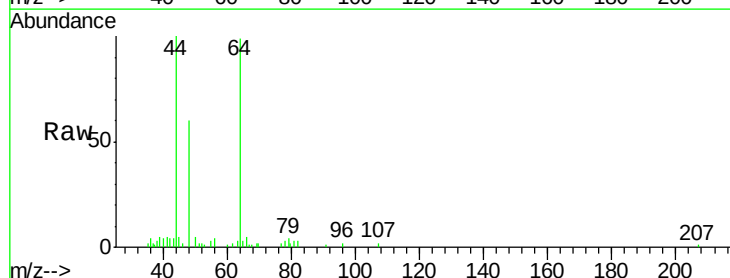
Acq: 06 Jun 2018 15:02

Tgt Ion: 64 Resp: 1630

Ion Ratio Lower Upper

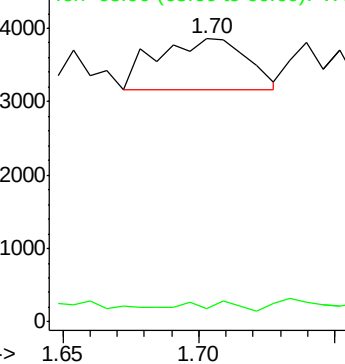
64 100

66 0.0 25.5 38.3#

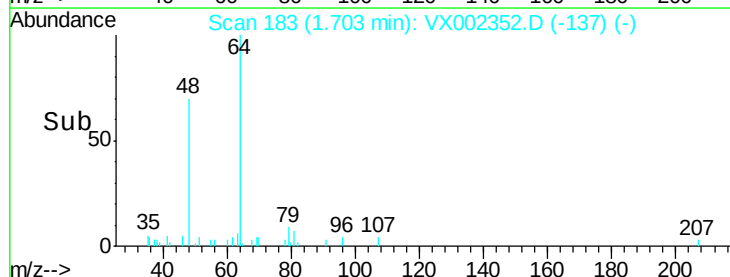


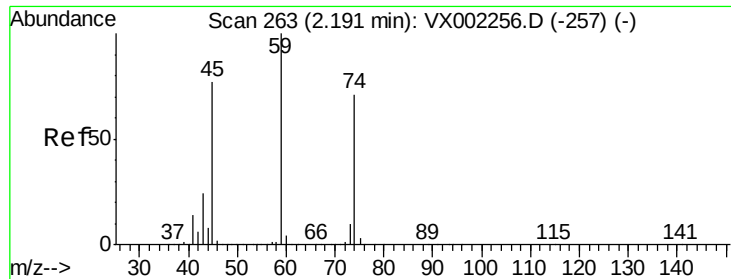
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002352.D

Acq: 06 Jun 2018 15:02

Instrument :

MSVOA_X

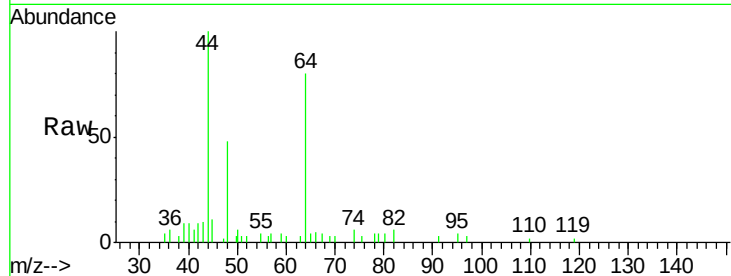
ClientSampled :

Tot Ion: 74 Resp: 241

Ion Ratio Lower Upper

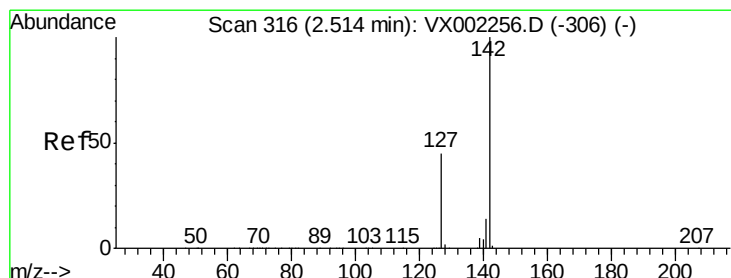
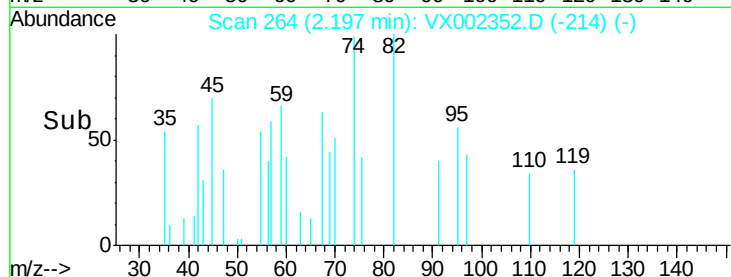
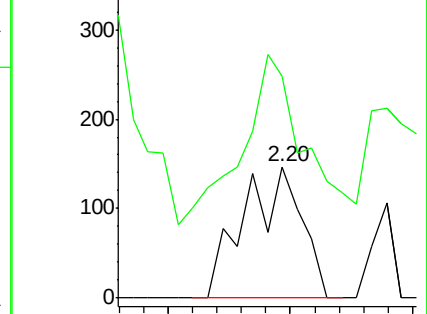
74 100

45 104.1 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.43 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002352.D

Acq: 06 Jun 2018 15:02

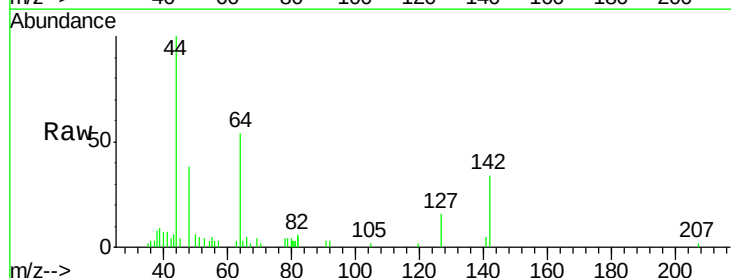
Tgt Ion: 142 Resp: 1466

Ion Ratio Lower Upper

142 100

127 55.4 36.6 55.0#

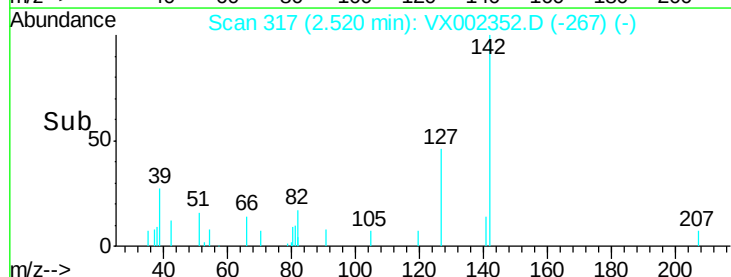
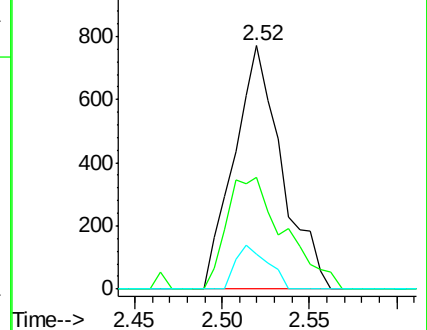
141 12.3 11.3 16.9

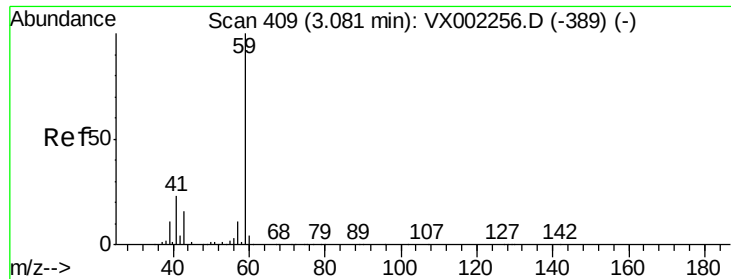


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



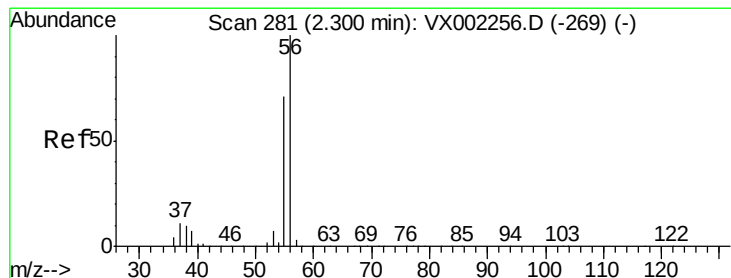
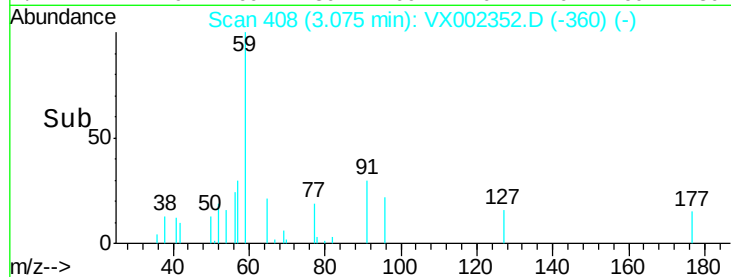
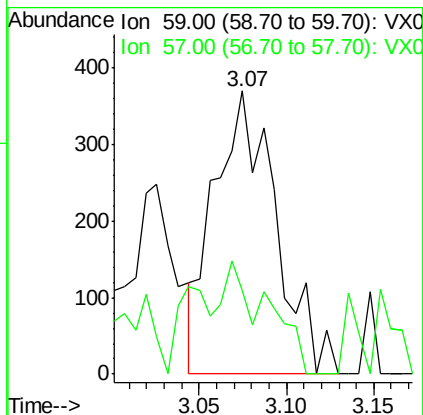
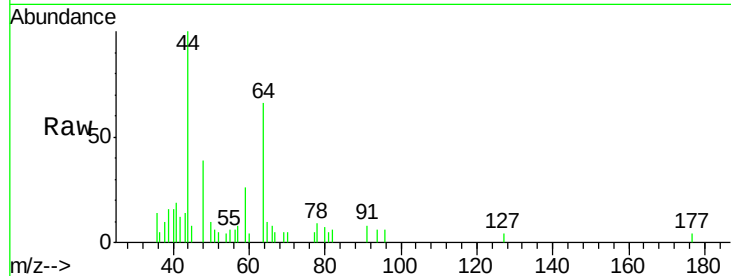


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Instrument :
MSVOA_X
ClientSampled :

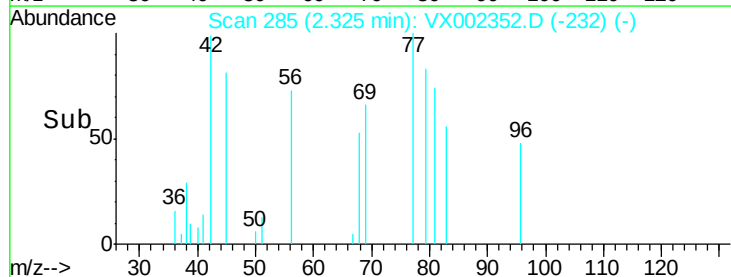
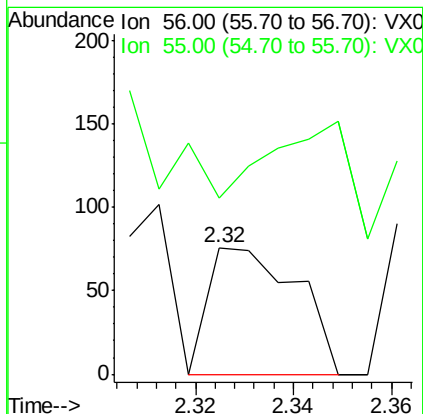
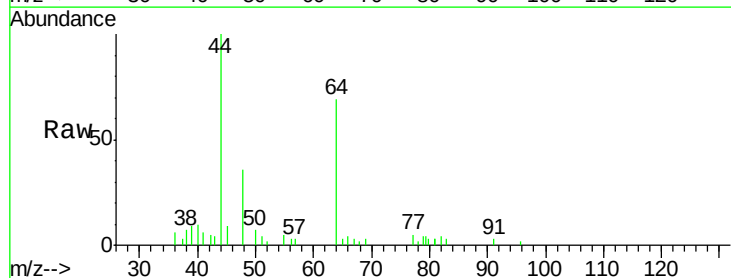
Tot Ion: 59 Resp: 906
Ion Ratio Lower Upper
59 100
57 8.8 8.2 12.2

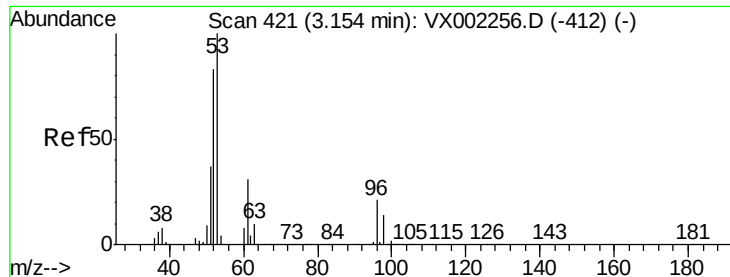


#13

Acrolein
Concen: Below Cal
RT: 2.32 min Scan# 285
Delta R.T. 0.02 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Tgt Ion: 56 Resp: 95
Ion Ratio Lower Upper
56 100
55 47.4 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002352.D

Acq: 06 Jun 2018 15:02

Instrument :

MSVOA_X

ClientSampled :

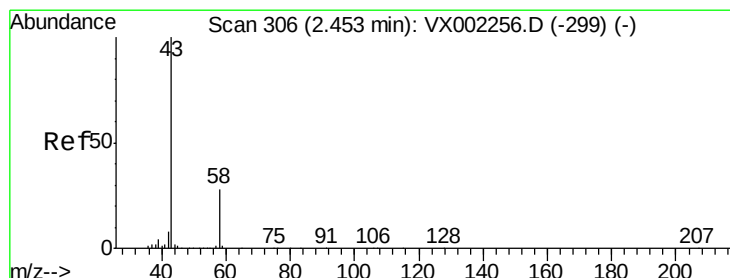
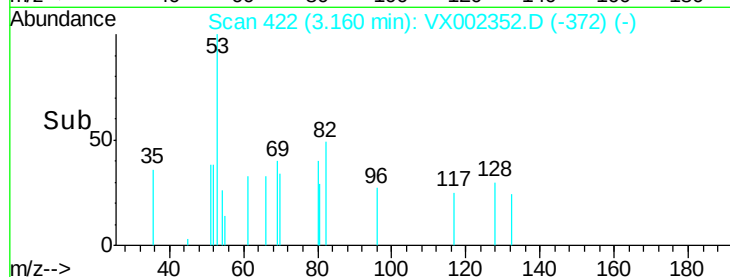
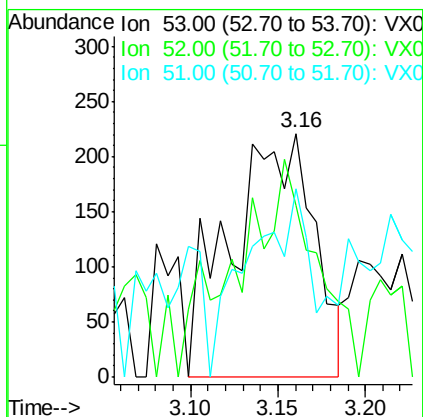
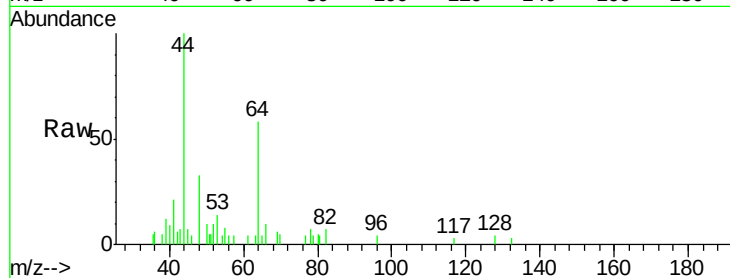
Tot Ion: 53 Resp: 734

Ion Ratio Lower Upper

53 100

52 69.2 66.7 100.1

51 62.0 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002352.D

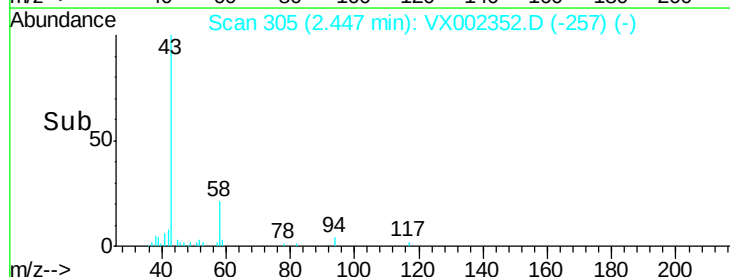
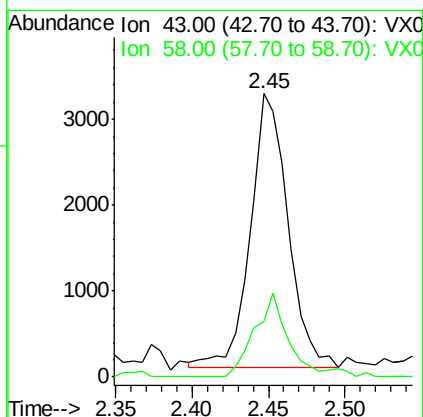
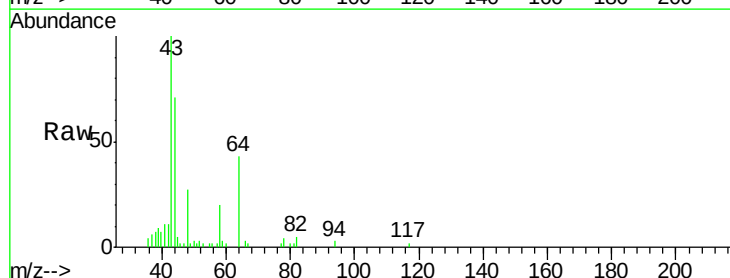
Acq: 06 Jun 2018 15:02

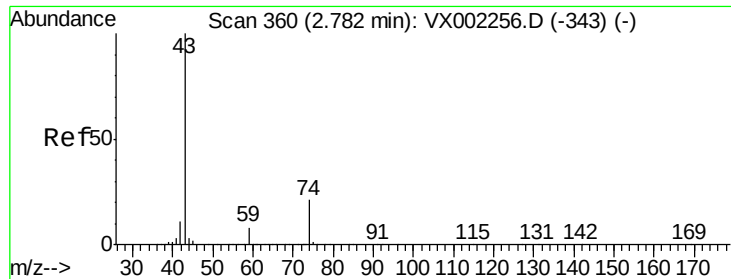
Tgt Ion: 43 Resp: 5435

Ion Ratio Lower Upper

43 100

58 20.4 22.1 33.1#

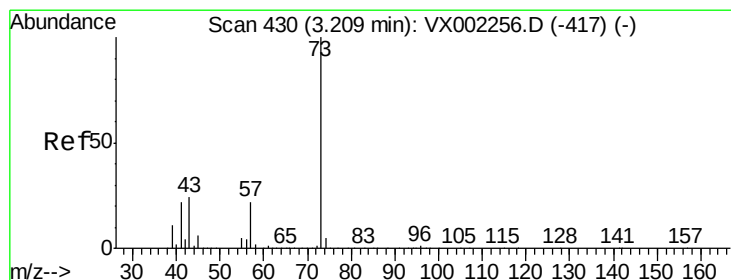
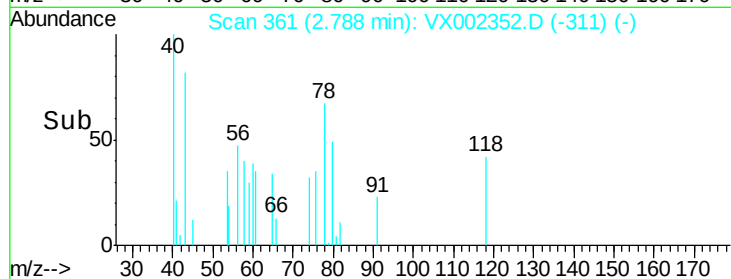
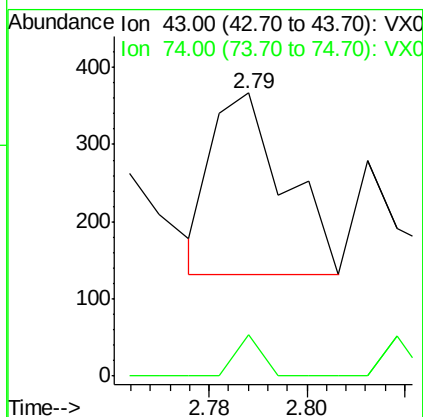
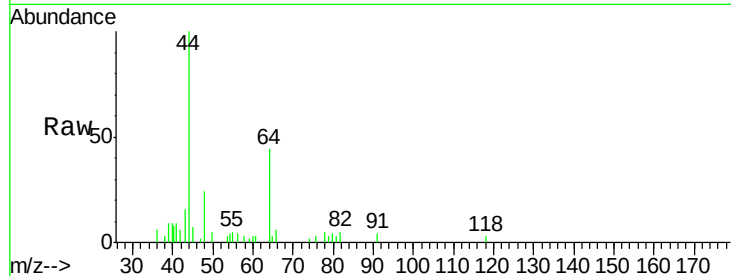




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

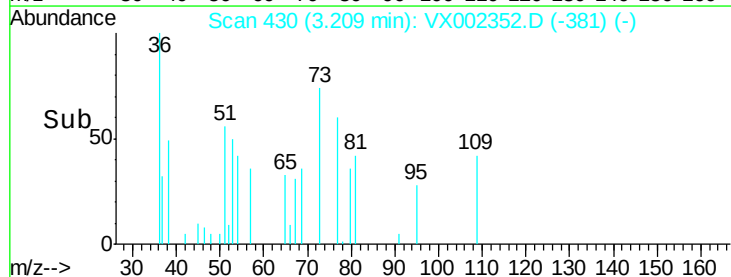
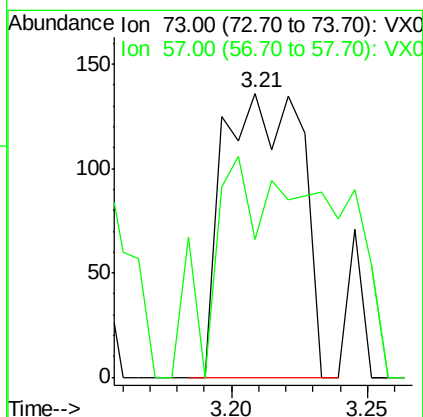
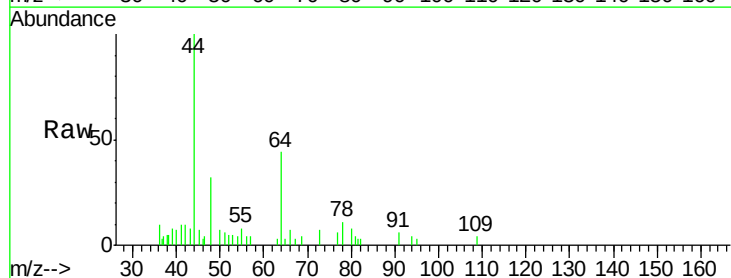
Instrument :
MSVOA_X
ClientSampled :

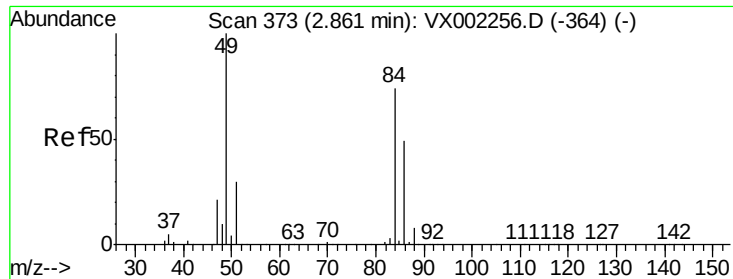
Tot Ion: 43 Resp: 245
Ion Ratio Lower Upper
43 100
74 8.2 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Tgt Ion: 73 Resp: 269
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

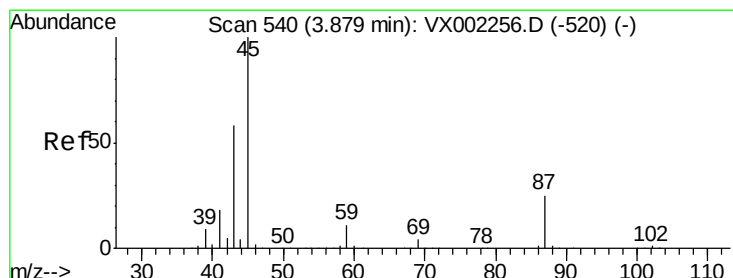
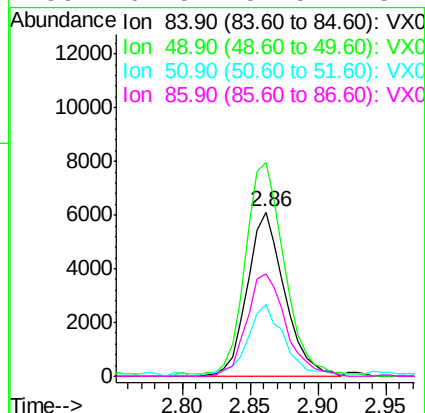
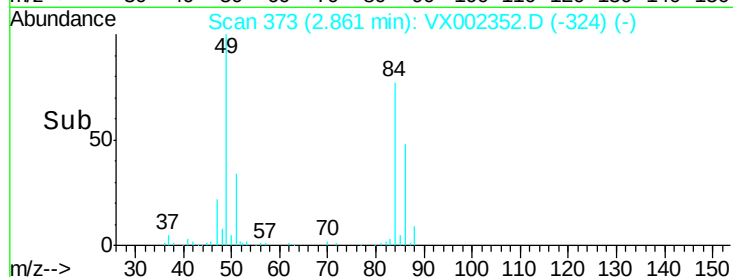
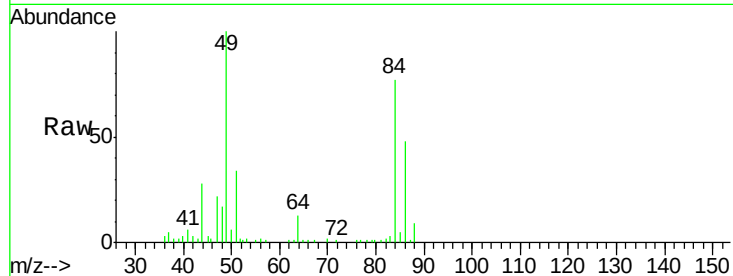




#20
Methylene Chloride
Concen: 1.95 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

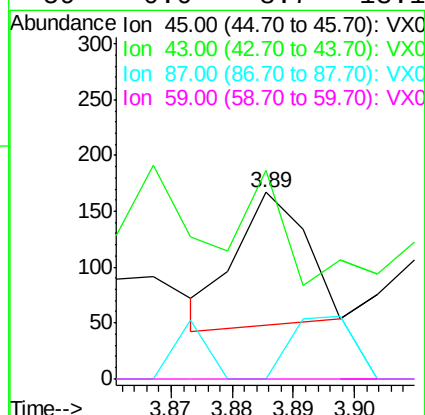
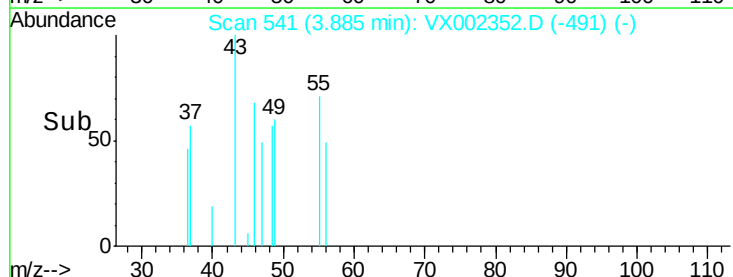
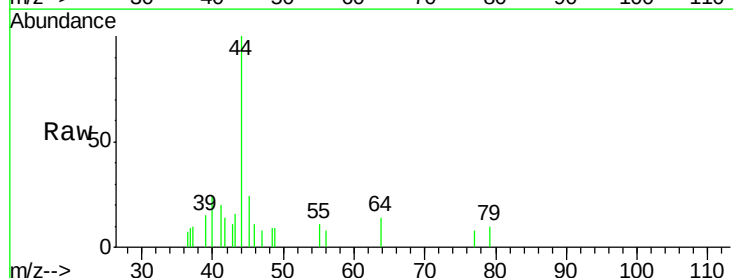
Instrument :
MSVOA_X
ClientSampleId :

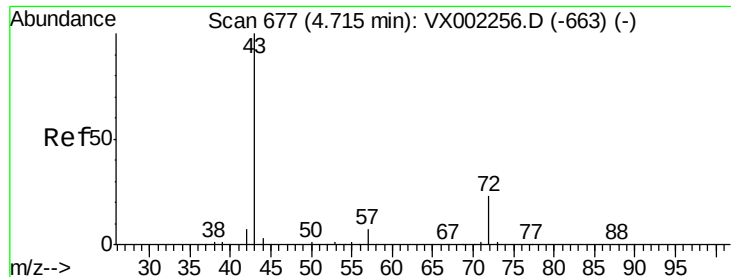
Tot Ion: 84 Resp: 11749
Ion Ratio Lower Upper
84 100
49 130.1 107.8 161.6
51 42.6 32.8 49.2
86 62.5 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Tgt Ion: 45 Resp: 95
Ion Ratio Lower Upper
45 100
43 71.7 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#25

2-Butanone

Concen: 0.64 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002352.D

Acq: 06 Jun 2018 15:02

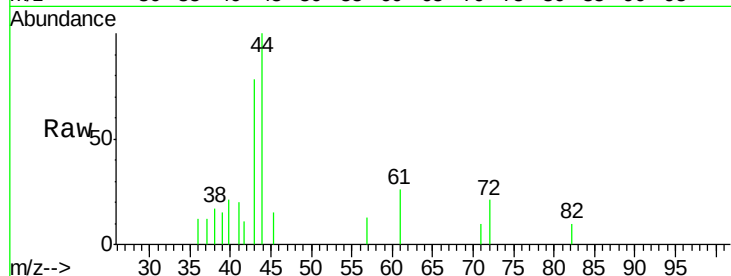
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1423

Ion Ratio Lower Upper

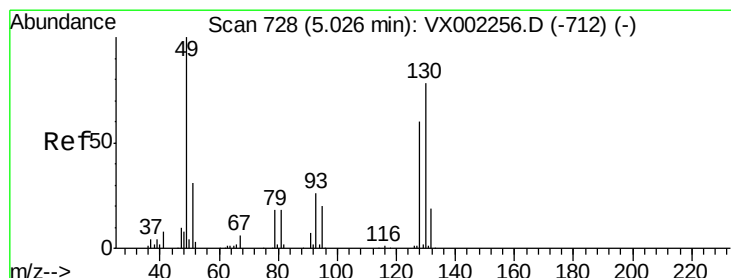
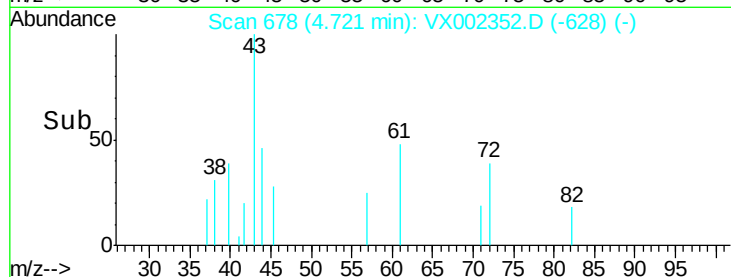
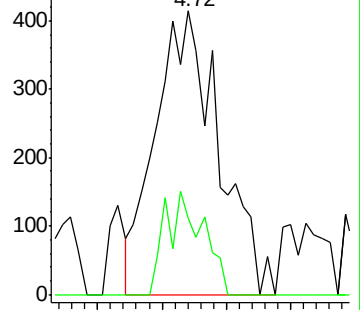
43 100

72 26.8 18.5 27.7



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: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002352.D

Acq: 06 Jun 2018 15:02

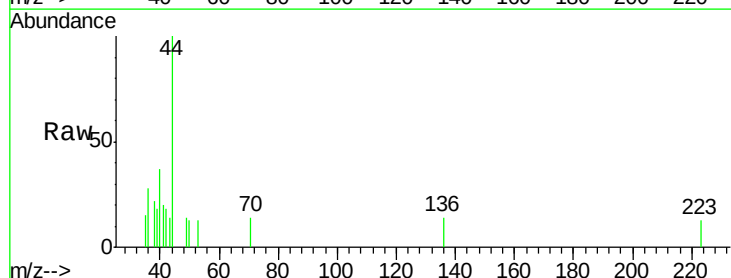
Tgt Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

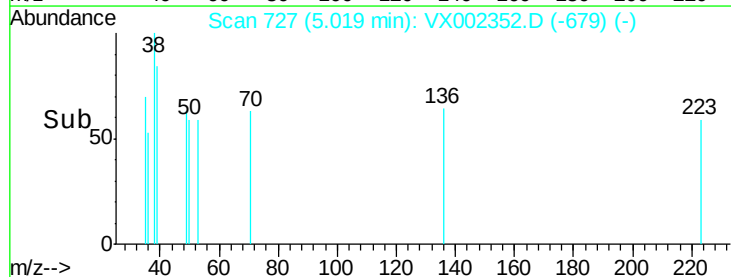
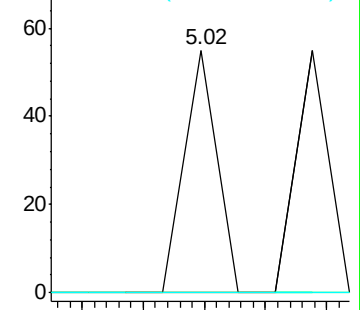
130 0.0 61.2 91.8#

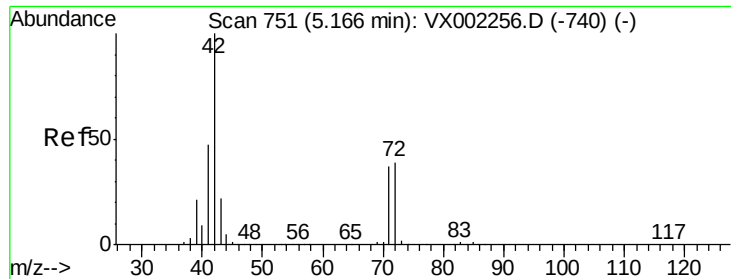


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

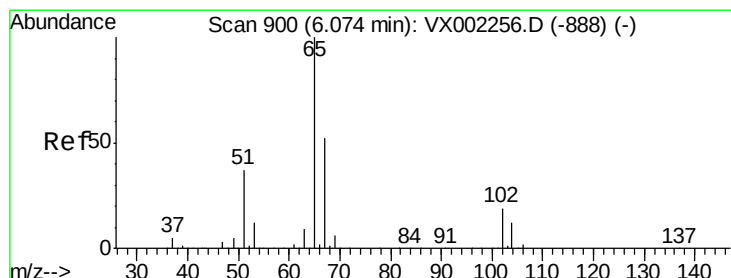
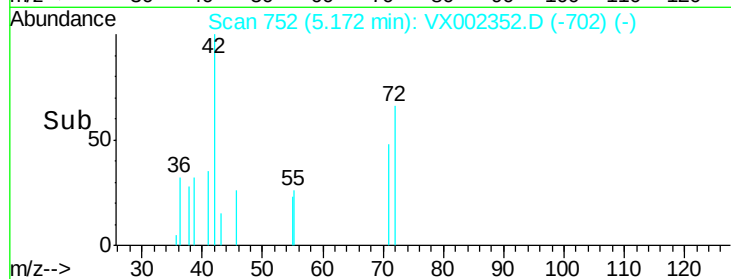
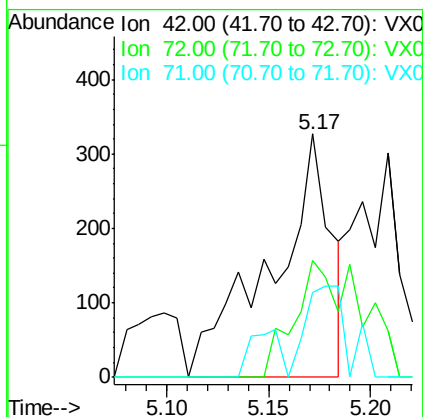
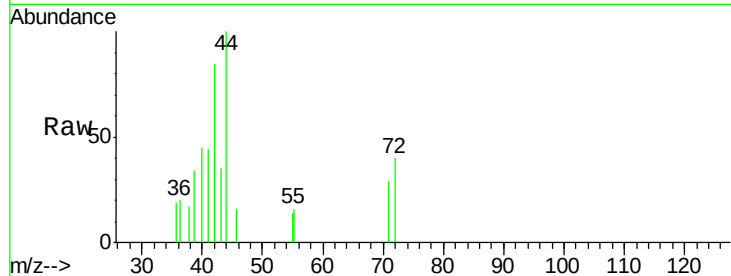




#29
Tetrahydrofuran
Concen: 0.46 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

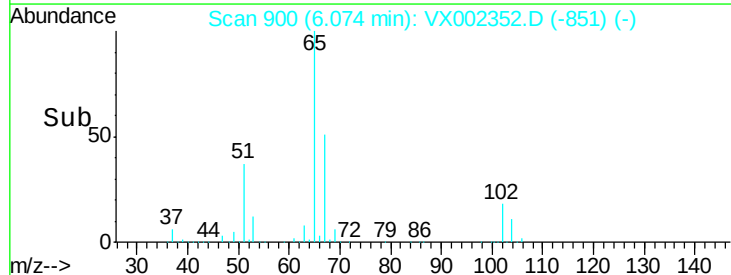
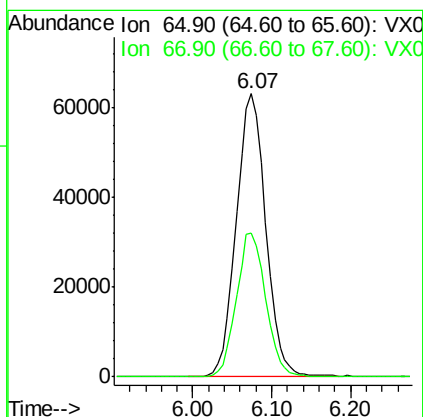
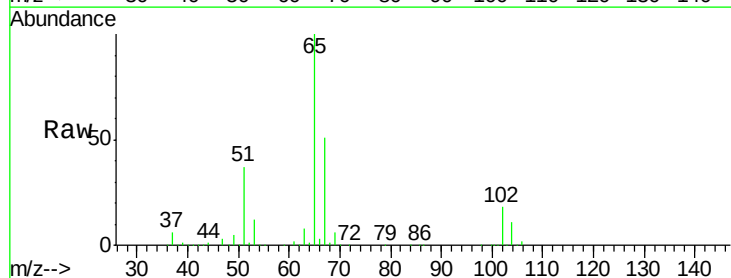
Instrument :
MSVOA_X
ClientSampleId :

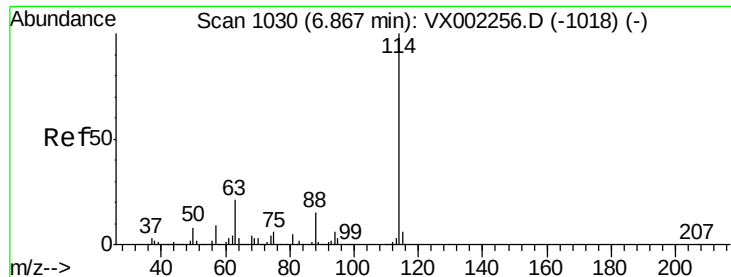
Tot Ion: 42 Resp: 661
Ion Ratio Lower Upper
42 100
72 53.9 32.0 48.0#
71 26.8 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 50.84 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Tgt Ion: 65 Resp: 163969
Ion Ratio Lower Upper
65 100
67 50.7 0.0 102.6

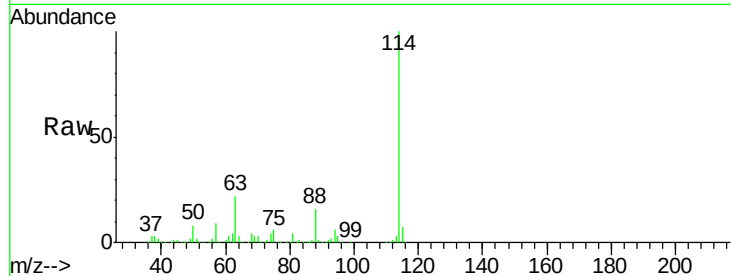




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002352.D
 Acq: 06 Jun 2018 15:02

Instrument :
 MSVOA_X
 ClientSampleId :

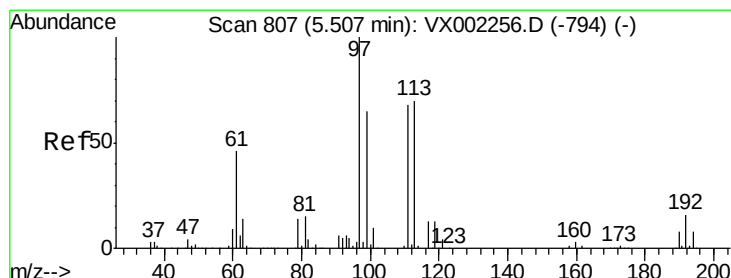
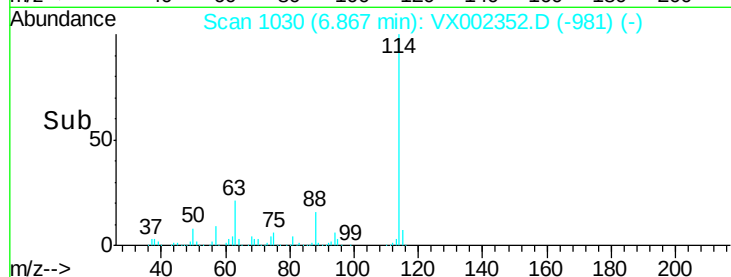
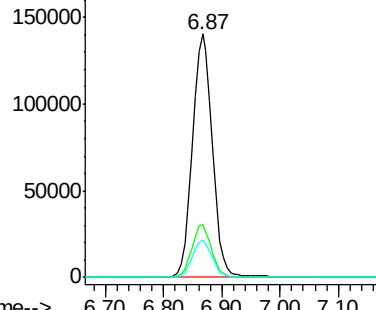
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	41.4
88	15.6	0.0	30.0



Abundance Ion 113.90 (113.60 to 114.60): V

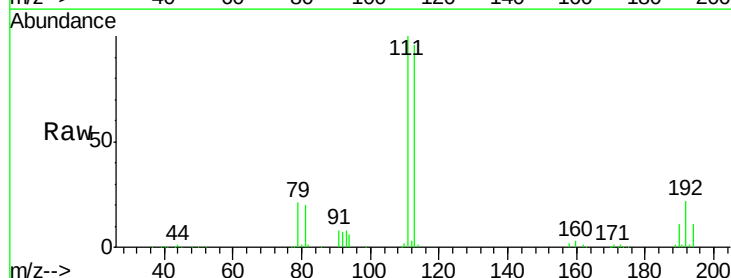
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35
 Dibromofluoromethane
 Concen: 45.39 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002352.D
 Acq: 06 Jun 2018 15:02

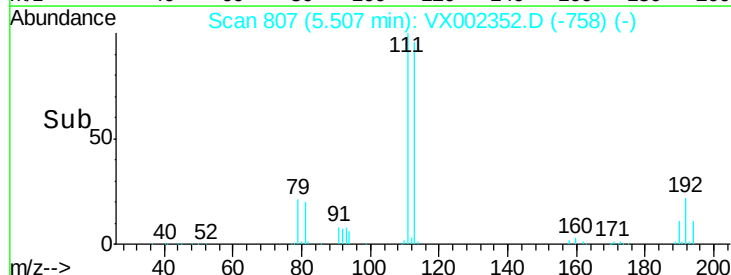
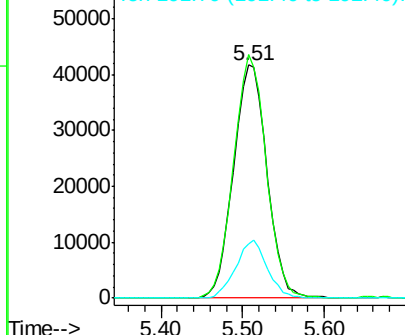
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.4	122.0
192	23.1	19.1	28.7

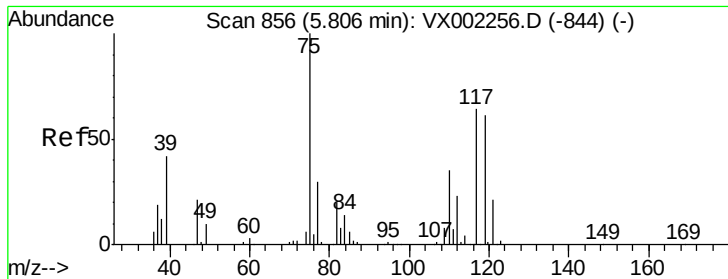


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

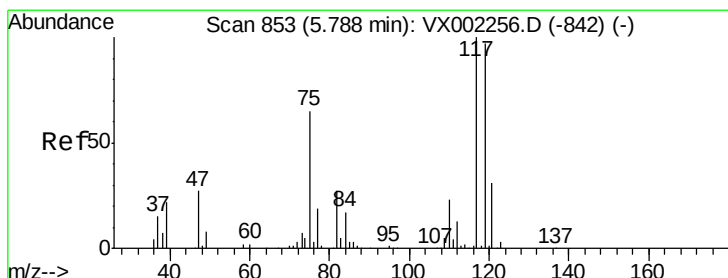
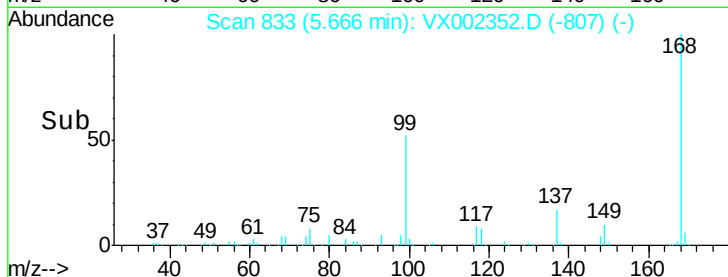
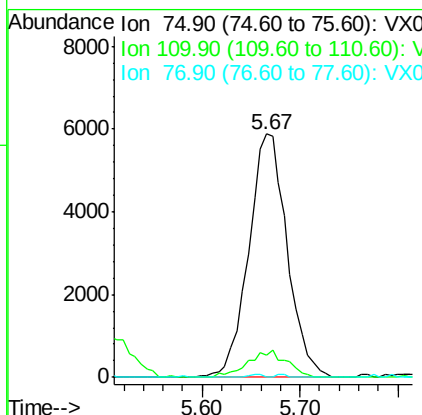
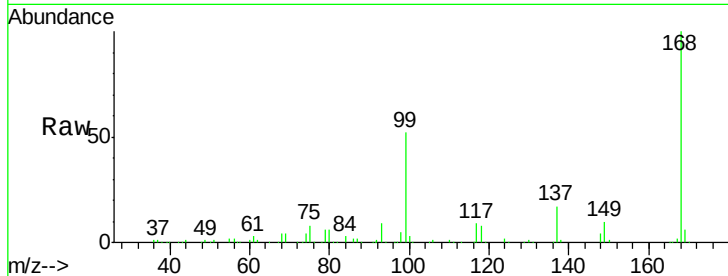




#36
 1,1-Dichloropropene
 Concen: 4.59 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002352.D
 Acq: 06 Jun 2018 15:02

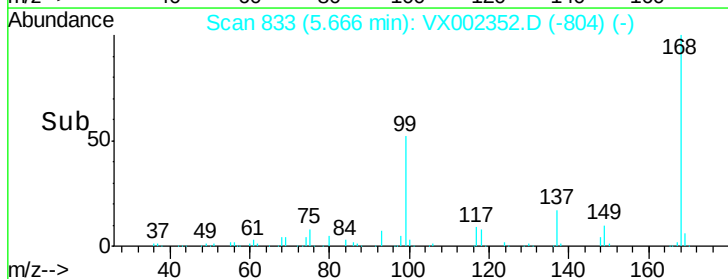
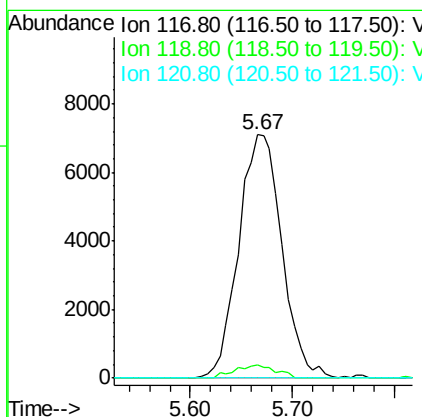
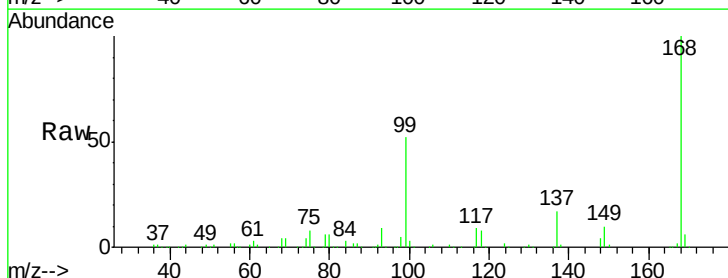
Instrument :
 MSVOA_X
 ClientSampleId :

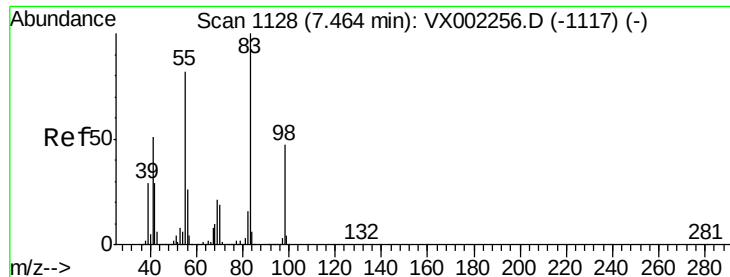
Tot Ion	75	Resp	16093
Ion Ratio	Lower	Upper	
75	100		
110	11.2	18.1	54.4#
77	0.3	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.68 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002352.D
 Acq: 06 Jun 2018 15:02

Tgt Ion	117	Resp	20836
Ion Ratio	Lower	Upper	
117	100		
119	5.2	77.4	116.0#
121	0.0	24.4	36.6#

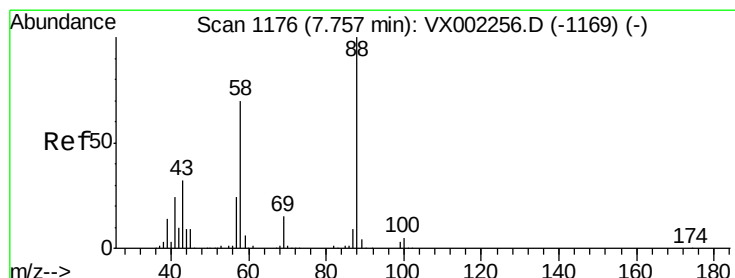
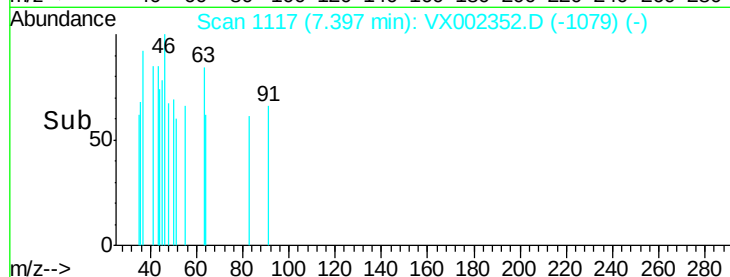
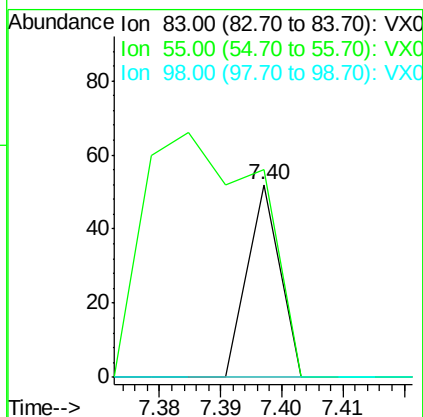
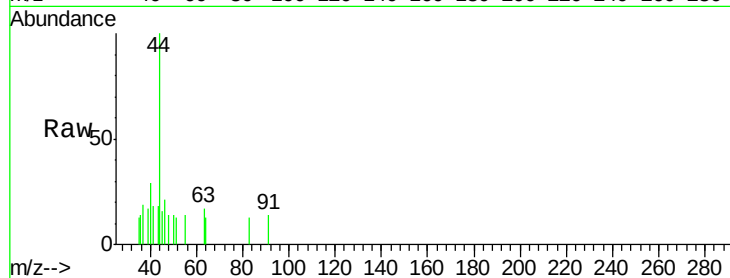




#39
Methylvlcyclohexane
Concen: 0.27 ug/l
RT: 7.40 min Scan# 1117
Delta R.T. -0.07 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

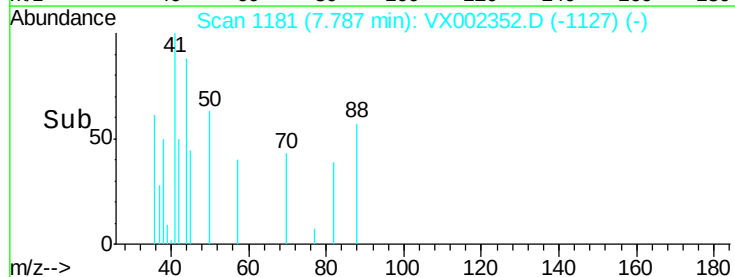
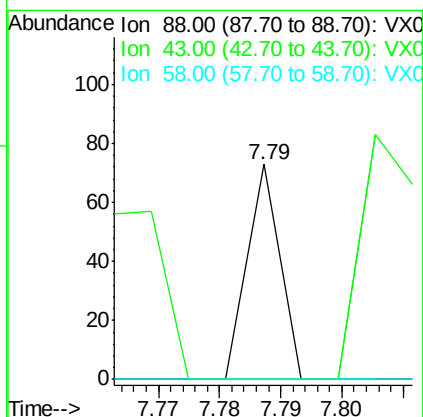
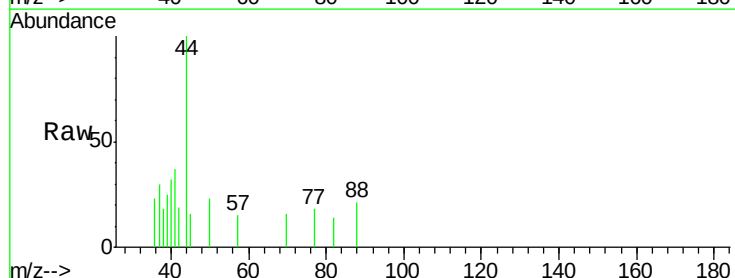
Instrument :
MSVOA_X
ClientSampleId :

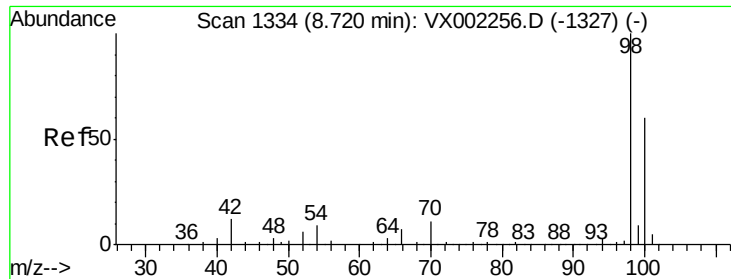
Tot Ion: 83 Resp: 19
Ion Ratio Lower Upper
83 100
55 107.7 65.4 98.0#
98 0.0 37.4 56.0#



#49
1,4-Dioxane
Concen: 0.40 ug/l
RT: 7.79 min Scan# 1181
Delta R.T. 0.03 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Tgt Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 0.0 57.1 85.7#

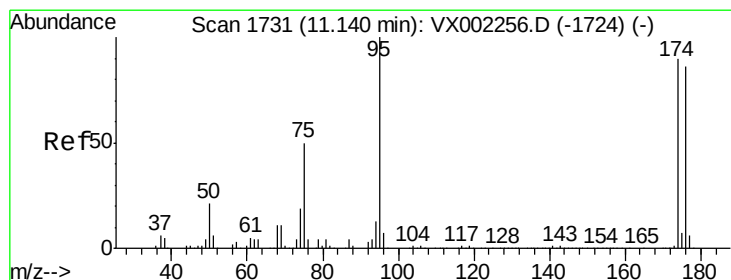
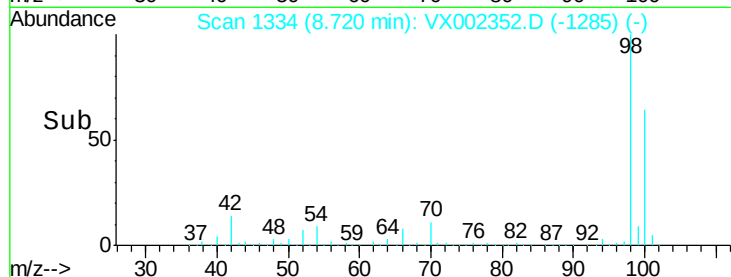
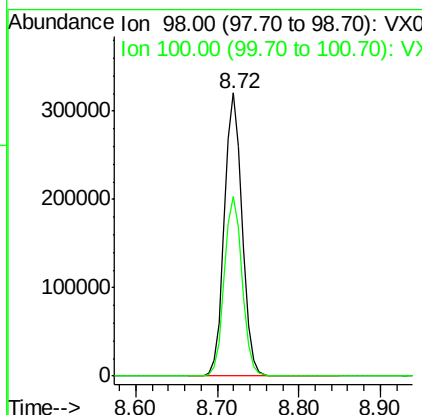
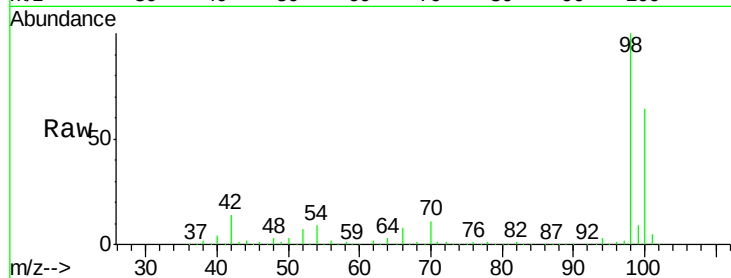




#50
Toluene-d8
Concen: 47.97 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

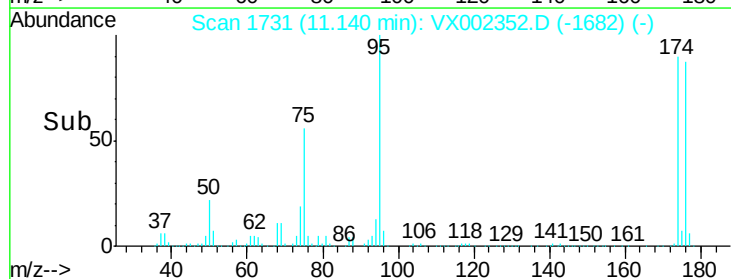
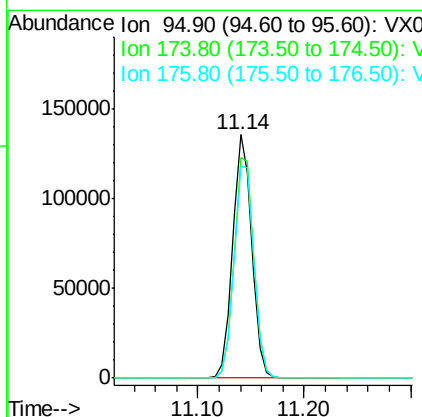
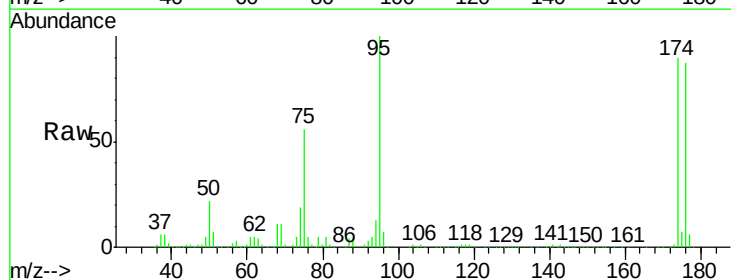
Instrument :
MSVOA_X
ClientSampleId :

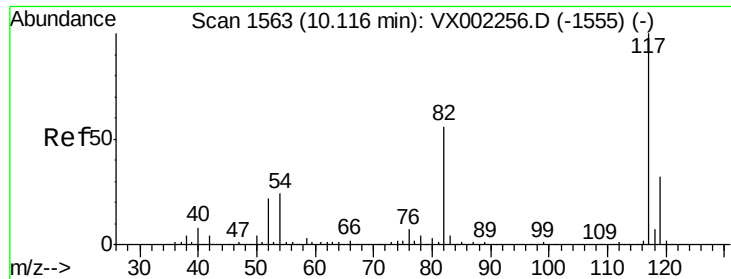
Tot Ion: 98 Resp: 482253
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.03 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Tgt Ion: 95 Resp: 170689
Ion Ratio Lower Upper
95 100
174 93.9 0.0 187.4
176 91.6 0.0 181.0

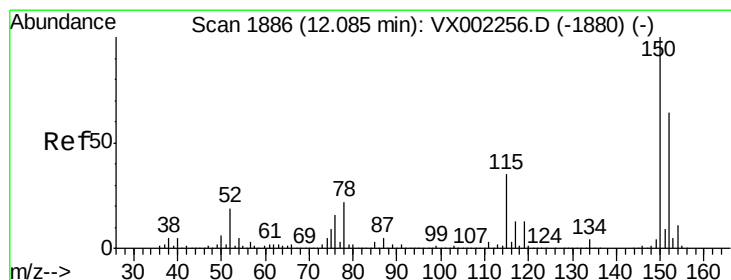
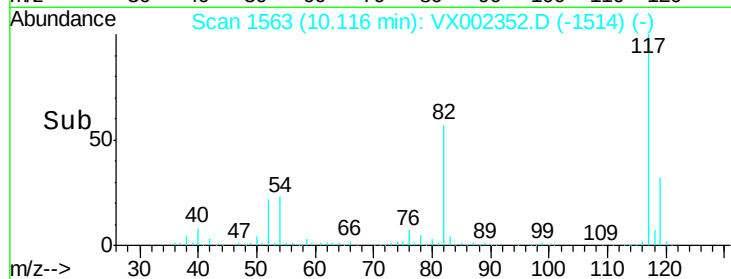
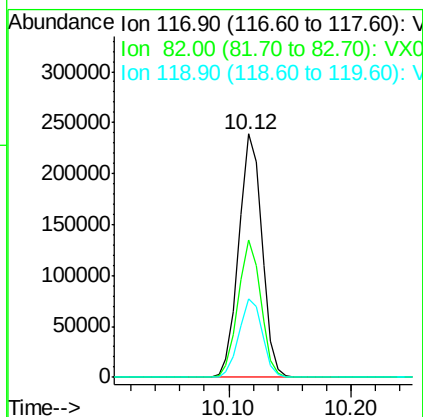
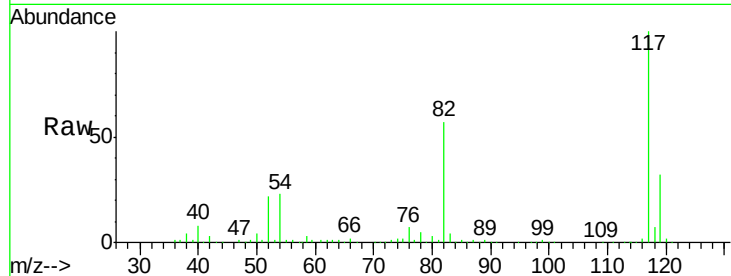




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

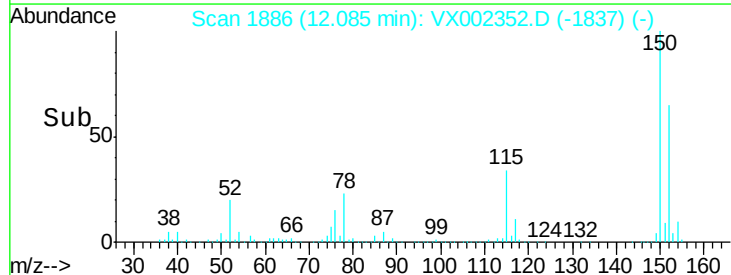
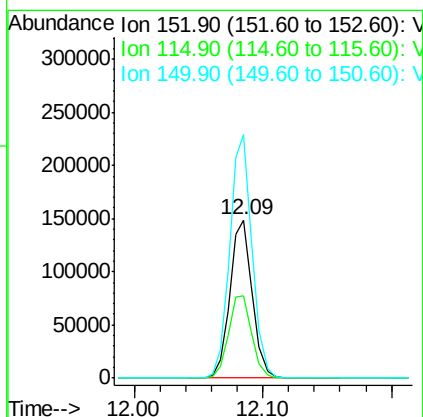
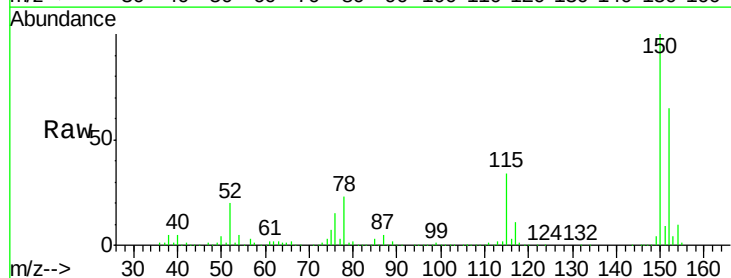
Instrument :
MSVOA_X
ClientSampleId :

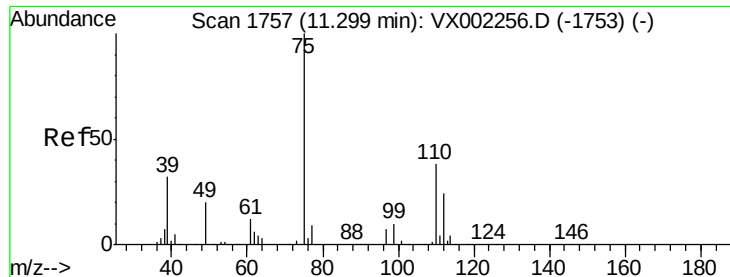
Tot Ion:117 Resp: 312845
Ion Ratio Lower Upper
117 100
82 56.5 45.0 67.4
119 32.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002352.D
Acq: 06 Jun 2018 15:02

Tgt Ion:152 Resp: 179882
Ion Ratio Lower Upper
152 100
115 54.6 40.1 120.2
150 154.3 0.0 347.2

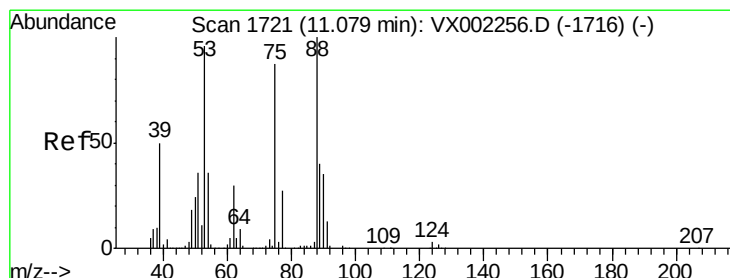
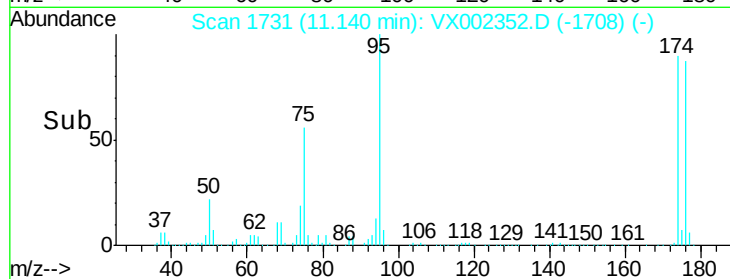
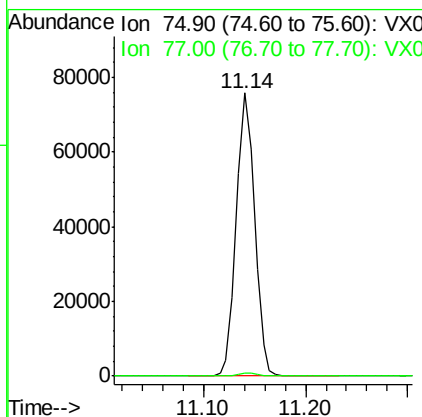
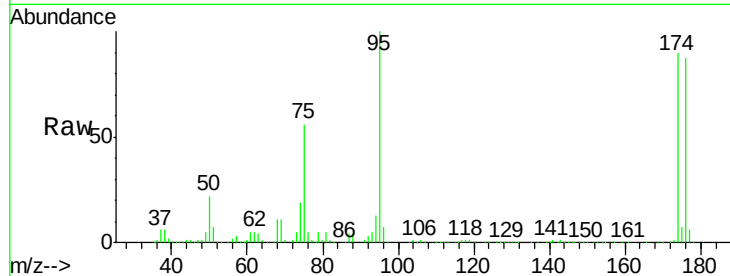




#76
 1,2,3-Trichloropropane
 Concen: 23.83 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002352.D
 Acq: 06 Jun 2018 15:02

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 94044
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.52 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002352.D
 Acq: 06 Jun 2018 15:02

Tgt Ion: 75 Resp: 94044
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.0 38.2 57.2#

