

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002318.D
 Acq On : 05 Jun 2018 20:51
 Operator : JC/MD
 Sample : J3268-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:34:59 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	224160	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	330811	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	301623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166341	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	162857	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
35) Dibromofluoromethane	5.51	113	117674	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
50) Toluene-d8	8.72	98	476362	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
62) 4-Bromofluorobenzene	11.14	95	164234	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	

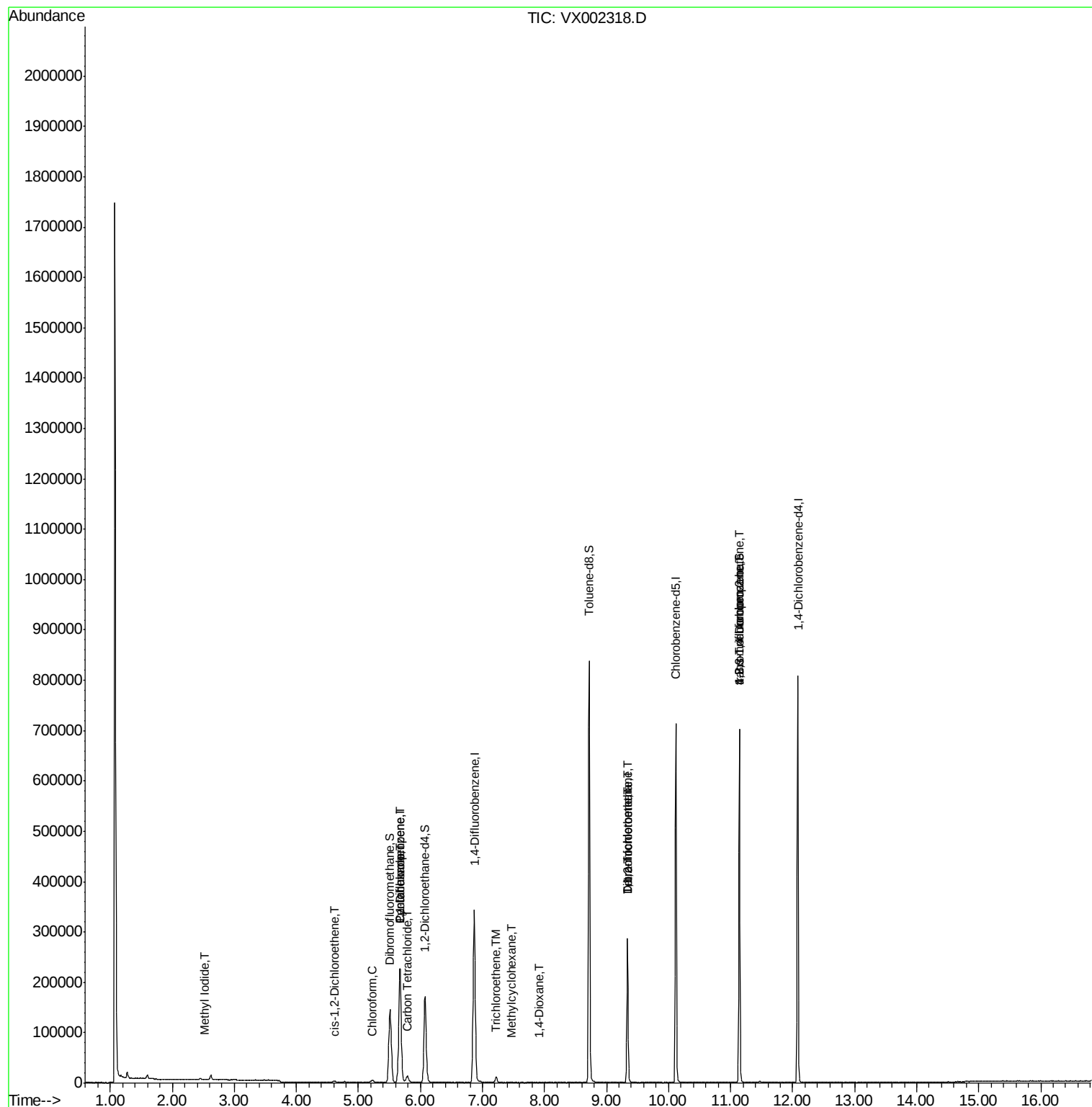
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	702	Below Cal		97
5) Bromomethane	1.67	94	994	Below Cal	#	76
8) Diethyl Ether	2.16	74	81	Below Cal		100
10) Methyl Iodide	2.52	142	717	0.21	ug/l	99
11) Tert butyl alcohol	3.07	59	205	Below Cal	#	19
13) Acrolein	2.29	56	315	Below Cal	#	73
15) Acrylonitrile	3.17	53	361	Below Cal	#	57
16) Acetone	2.45	43	1924	Below Cal		95
18) Methyl Acetate	2.78	43	102	Below Cal	#	1
19) Methyl tert-butyl Ether	3.21	73	165	Below Cal	#	1
20) Methylene Chloride	2.86	84	434	Below Cal		91
22) Diisopropyl ether	3.85	45	80	Below Cal	#	17
27) cis-1,2-Dichloroethene	4.61	96	1023	0.36	ug/l	# 1
28) Bromochloromethane	5.05	49	48	Below Cal	#	13
30) Chloroform	5.22	83	4696	0.95	ug/l	89
31) Cyclohexane	5.67	56	4890	1.21	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16692	4.80	ug/l	# 50
38) Carbon Tetrachloride	5.79	117	9889	2.72	ug/l	98
39) Methylcyclohexane	7.46	83	30	0.27	ug/l	# 16
44) Trichloroethene	7.22	130	4337	1.47	ug/l	90
49) 1,4-Dioxane	7.92	88	19	0.28	ug/l	# 1
55) 1,1,2-Trichloroethane	9.34	97	573	0.21	ug/l	# 22
60) Dibromochloromethane	9.34	129	50077	17.85	ug/l	# 11
64) Tetrachloroethene	9.34	164	56491	18.16	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	89759	24.59	ug/l	# 32
81) trans-1,4-Dichloro-2-buten	11.14	75	89759	86.20	ug/l	# 6

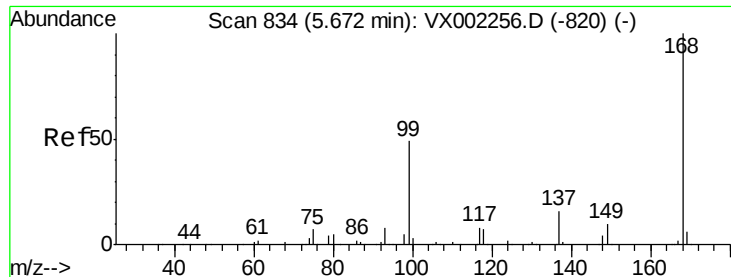
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX060518\
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Acq On : 05 Jun 2018 20:51
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 06 04:34:59 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

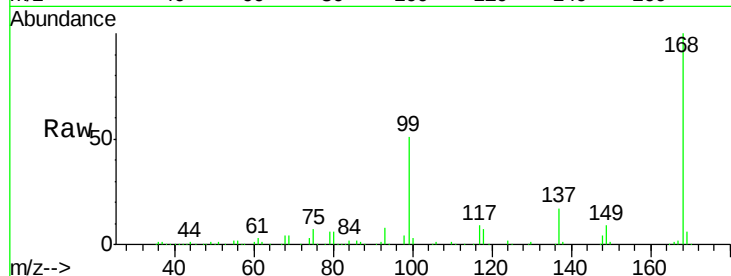
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 224160

Ion Ratio Lower Upper

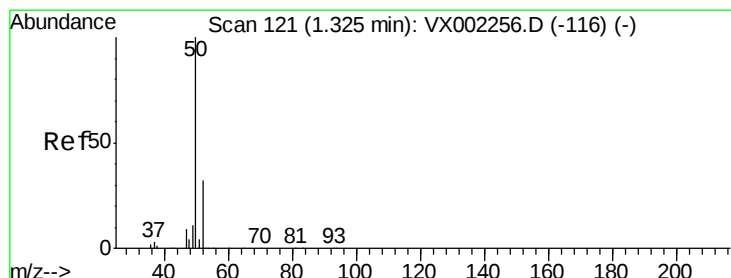
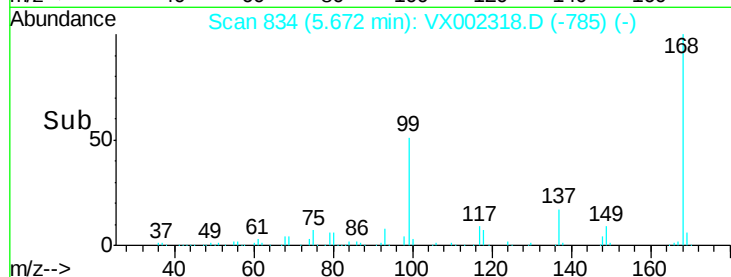
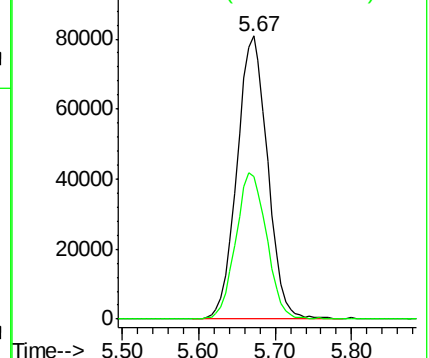
168 100

99 50.5 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: VX002318.D

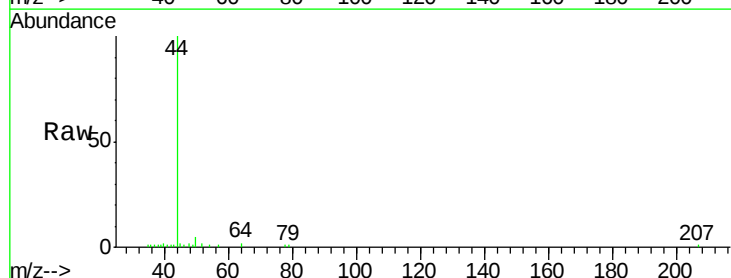
Acq: 05 Jun 2018 20:51

Tgt Ion: 50 Resp: 702

Ion Ratio Lower Upper

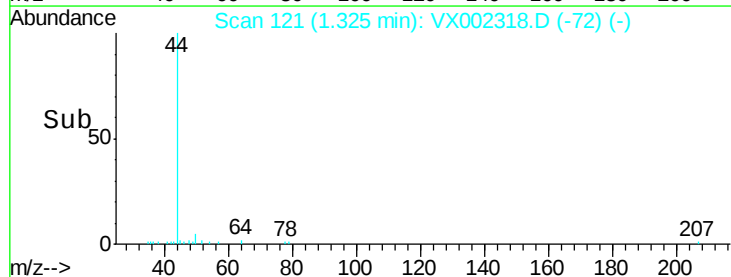
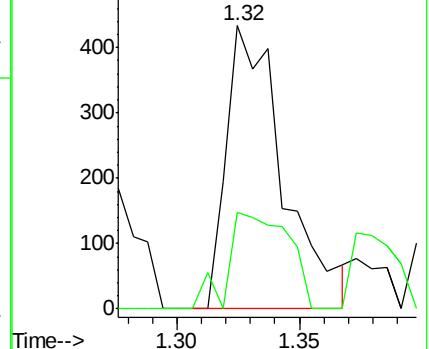
50 100

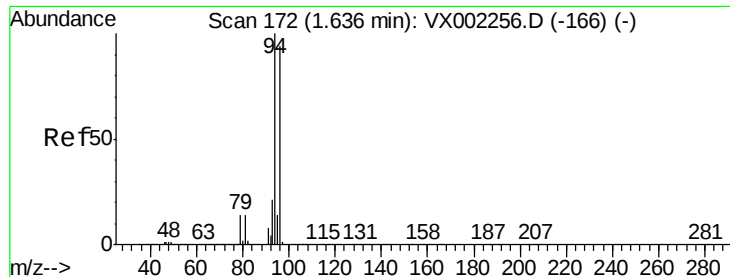
52 33.9 25.7 38.5



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: 1.67 min Scan# 178

Delta R.T. 0.04 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :

MSVOA_X

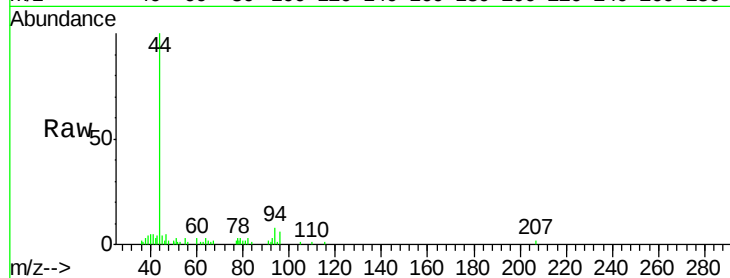
ClientSampled :

Tot Ion: 94 Resp: 994

Ion Ratio Lower Upper

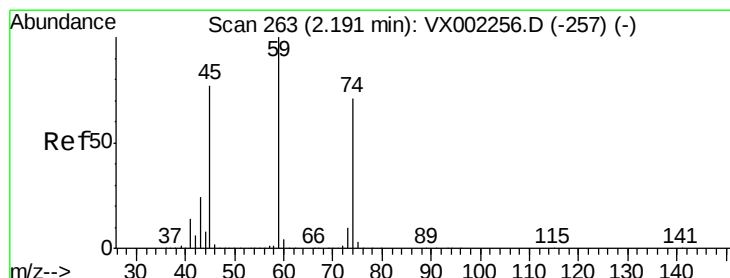
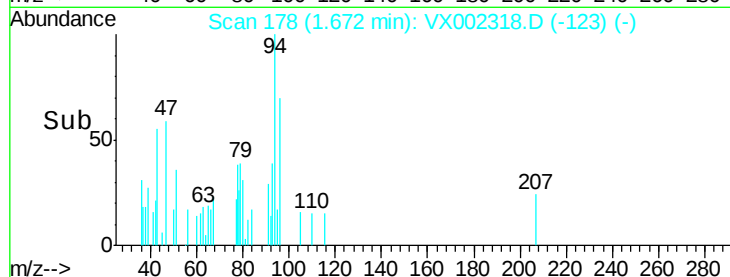
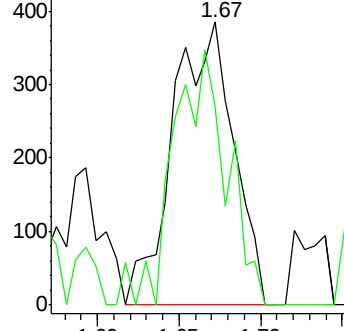
94 100

96 70.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.16 min Scan# 258

Delta R.T. -0.03 min

Lab File: VX002318.D

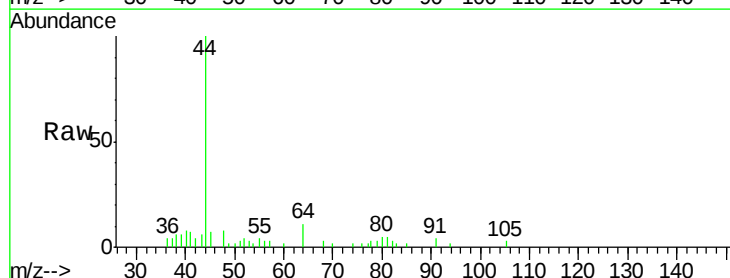
Acq: 05 Jun 2018 20:51

Tgt Ion: 74 Resp: 81

Ion Ratio Lower Upper

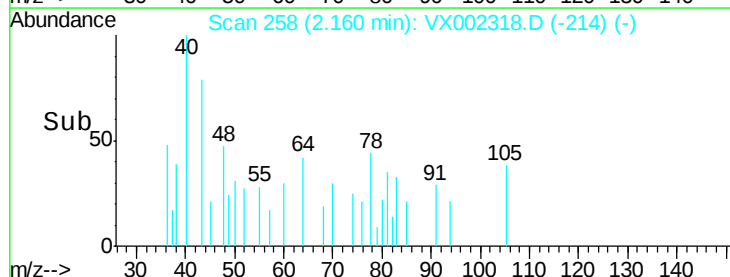
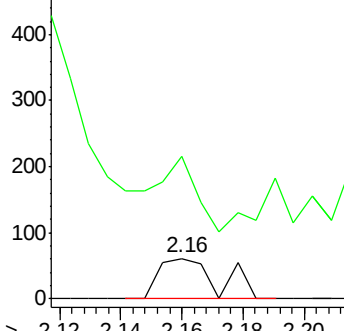
74 100

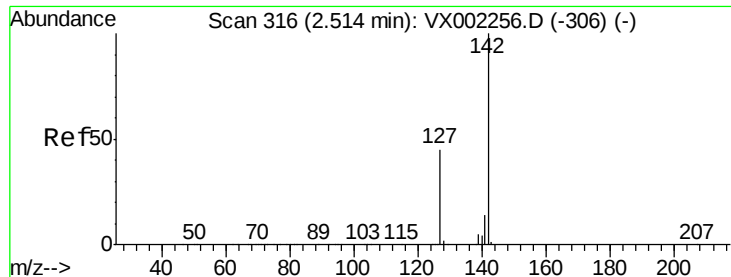
45 106.2 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

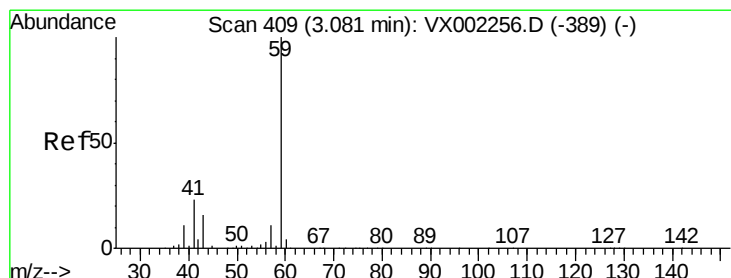
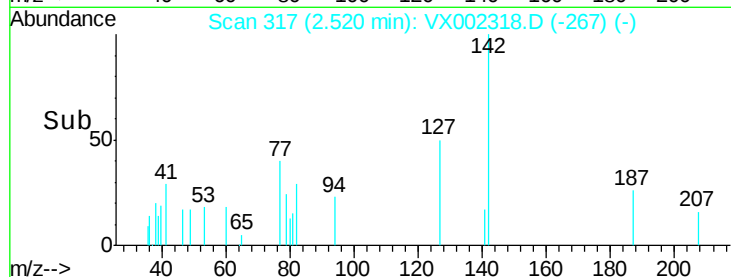
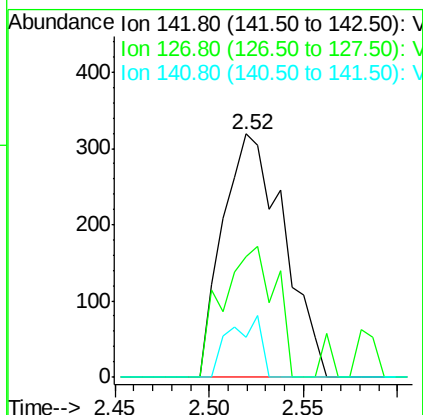
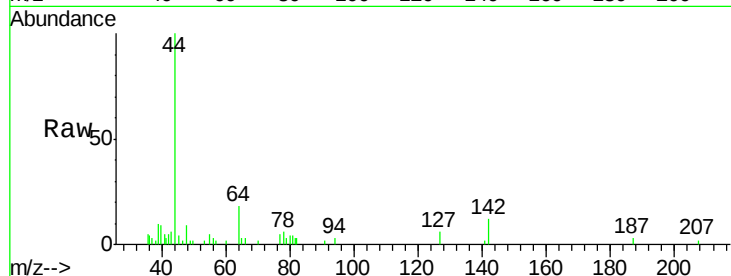




#10
Methvl Iodide
Concen: 0.21 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

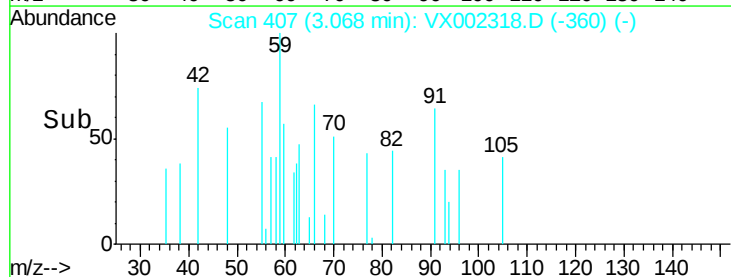
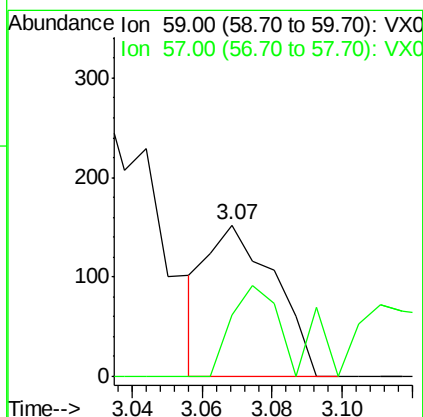
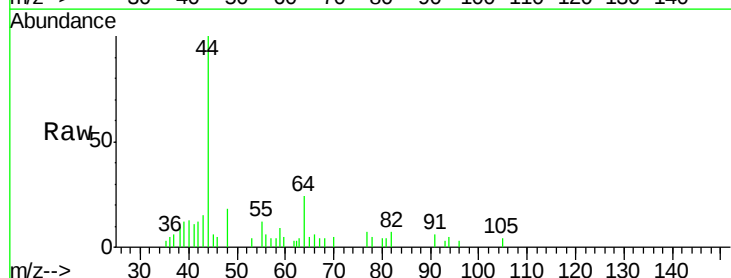
Instrument :
MSVOA_X
ClientSampleId :

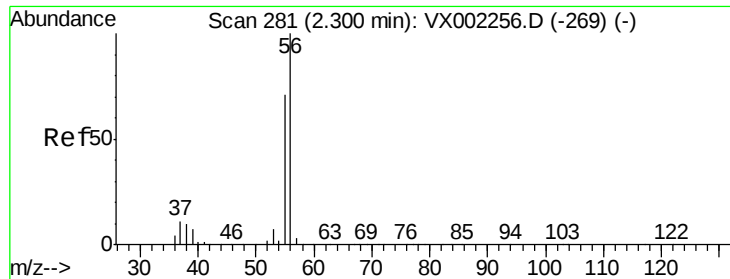
Tot Ion:142 Resp: 717
Ion Ratio Lower Upper
142 100
127 46.2 36.6 55.0
141 13.0 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

Tgt Ion: 59 Resp: 205
Ion Ratio Lower Upper
59 100
57 40.5 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :

MSVOA_X

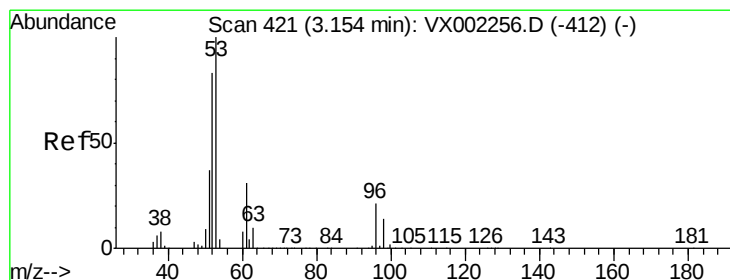
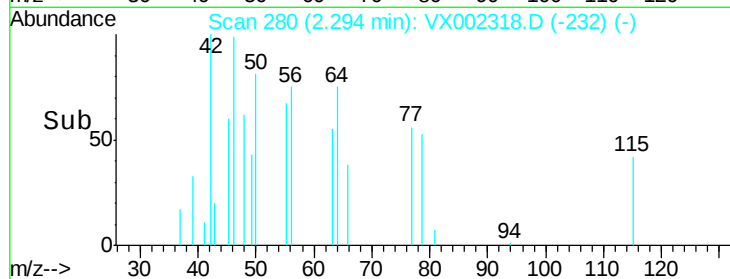
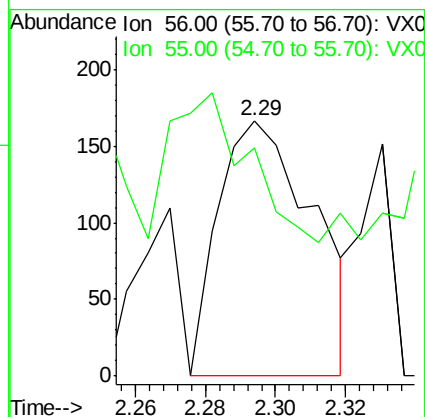
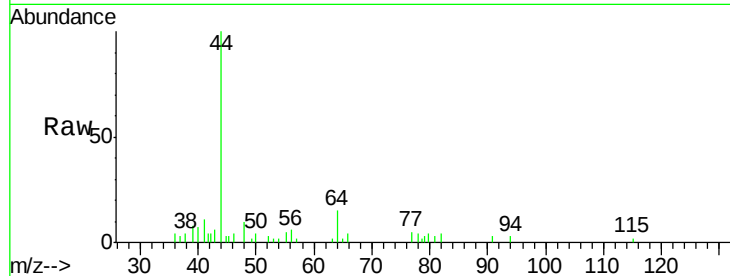
ClientSampled :

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

56 100

55 48.9 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.17 min Scan# 424

Delta R.T. 0.02 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

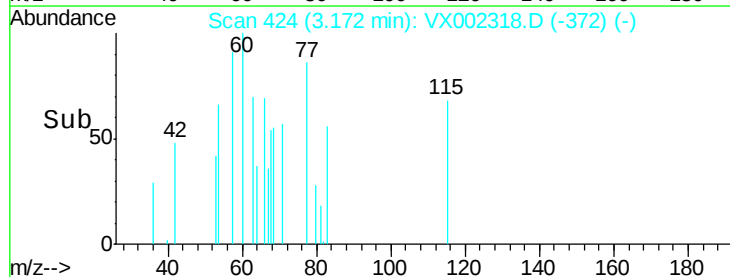
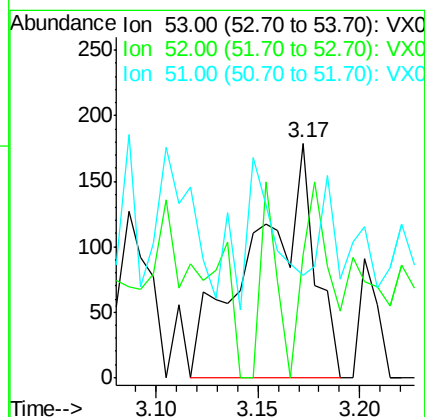
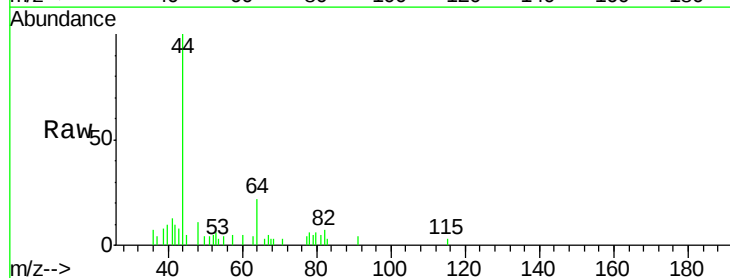
Tgt Ion: 53 Resp: 361

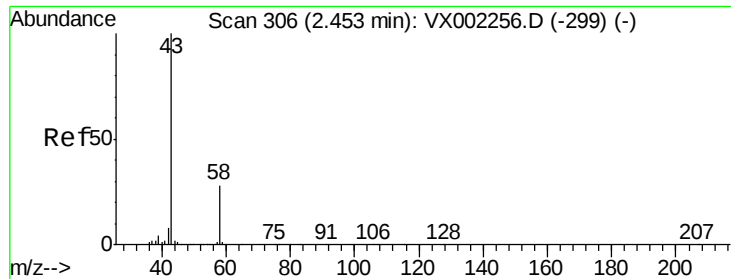
Ion Ratio Lower Upper

53 100

52 38.5 66.7 100.1#

51 19.9 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :

MSVOA_X

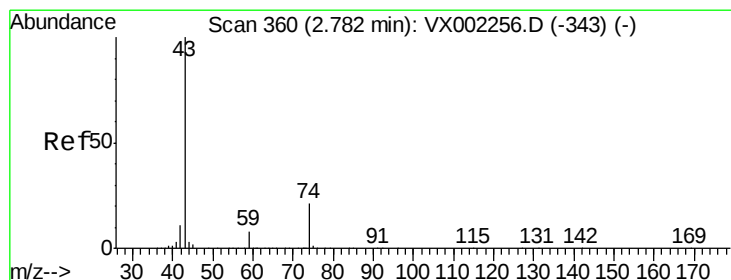
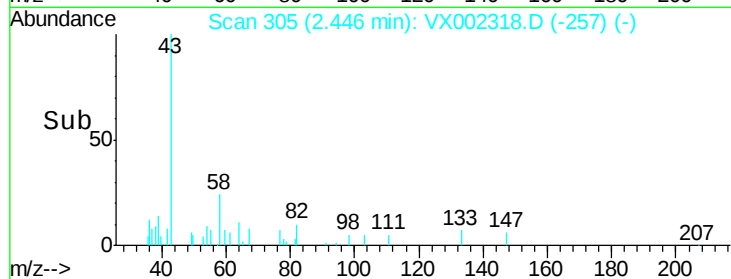
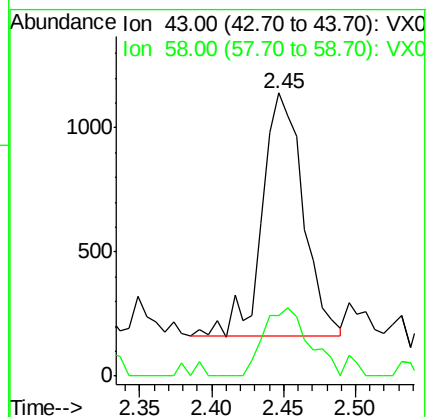
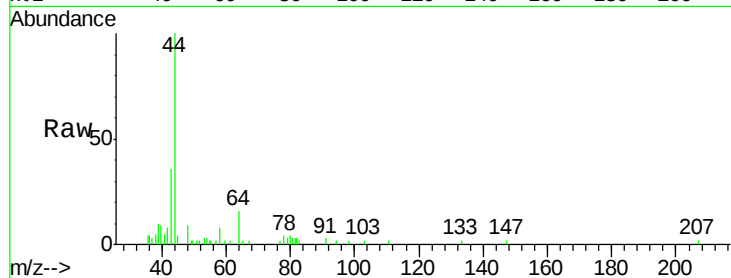
ClientSampled :

Tot Ion: 43 Resp: 1924

Ion Ratio Lower Upper

43 100

58 25.0 22.1 33.1



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002318.D

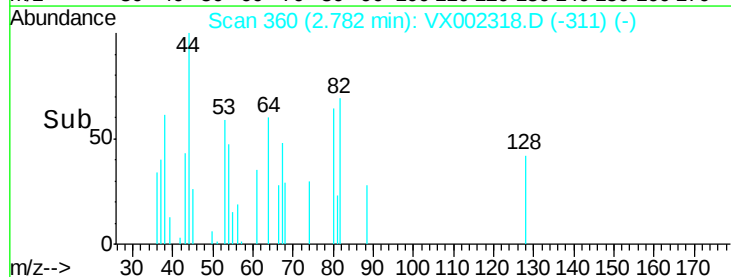
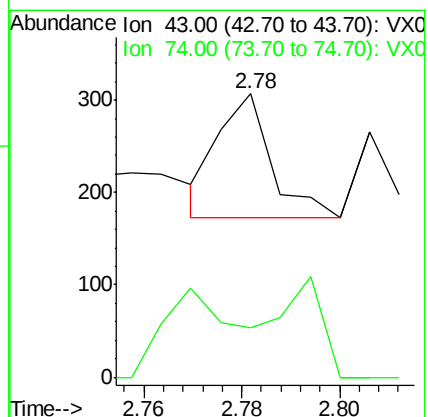
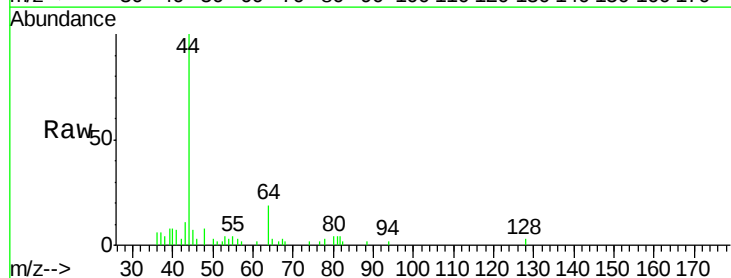
Acq: 05 Jun 2018 20:51

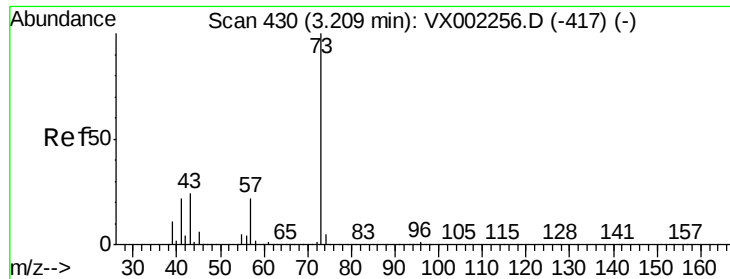
Tgt Ion: 43 Resp: 102

Ion Ratio Lower Upper

43 100

74 96.1 16.7 25.1#



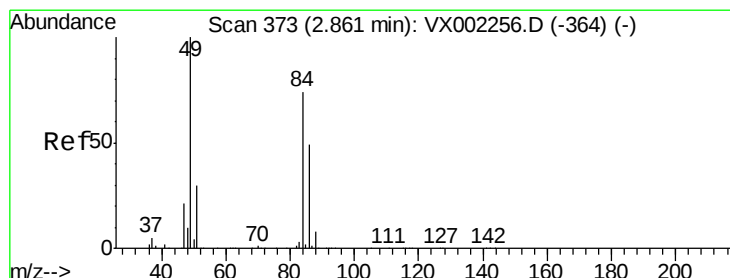
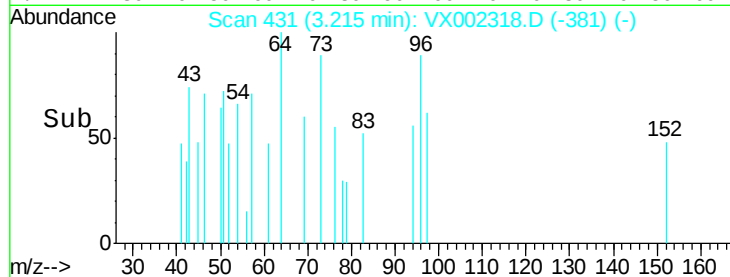
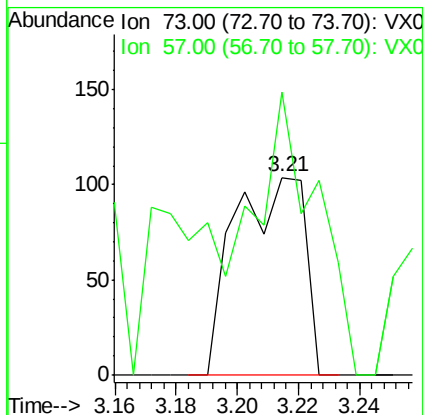
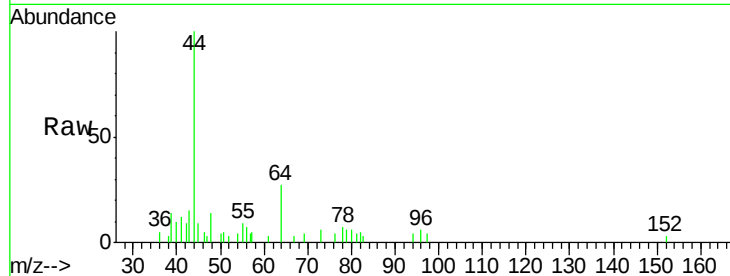


#19

Methyl tert-butyl Ether
 Concen: Below Cal
 RT: 3.21 min Scan# 431
 Delta R.T. 0.01 min
 Lab File: VX002318.D
 Acq: 05 Jun 2018 20:51

Instrument :
 MSVOA_X
 ClientSampled :

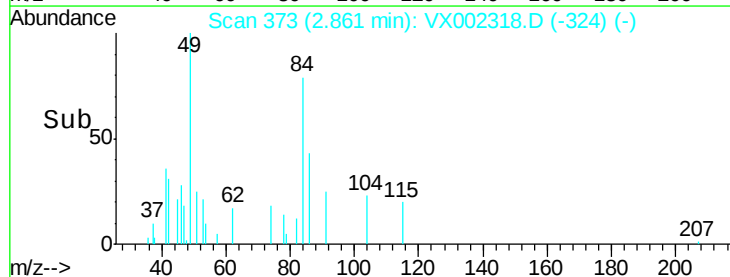
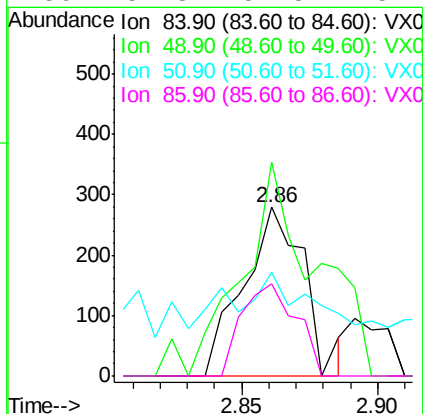
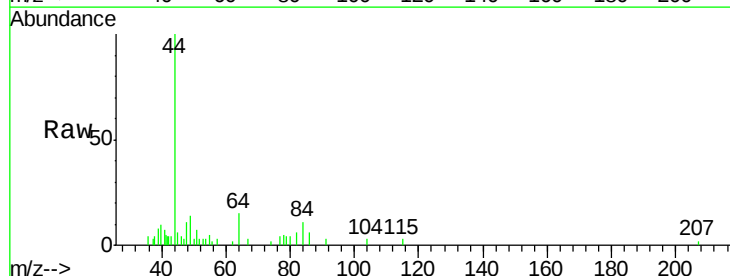
Tot Ion: 73 Resp: 165
 Ion Ratio Lower Upper
 73 100
 57 86.5 17.7 26.5#

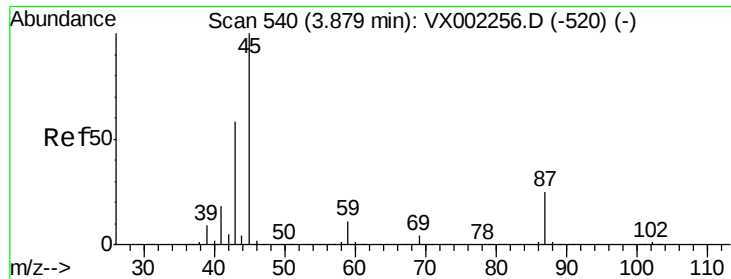


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 373
 Delta R.T. 0.00 min
 Lab File: VX002318.D
 Acq: 05 Jun 2018 20:51

Tgt Ion: 84 Resp: 434
 Ion Ratio Lower Upper
 84 100
 49 126.9 107.8 161.6
 51 33.3 32.8 49.2
 86 54.8 52.5 78.7



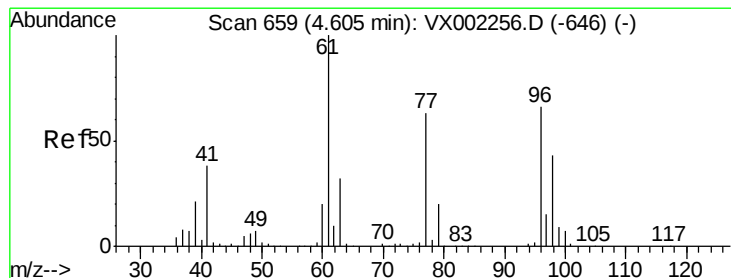
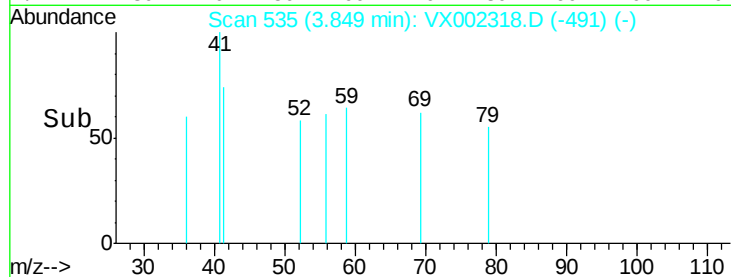
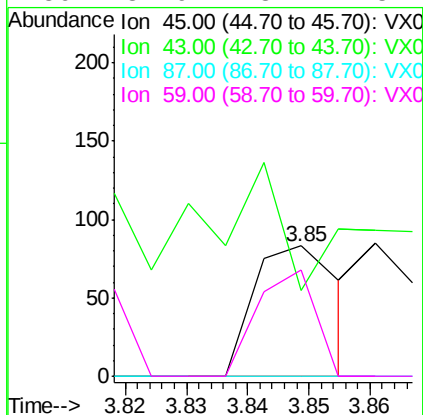
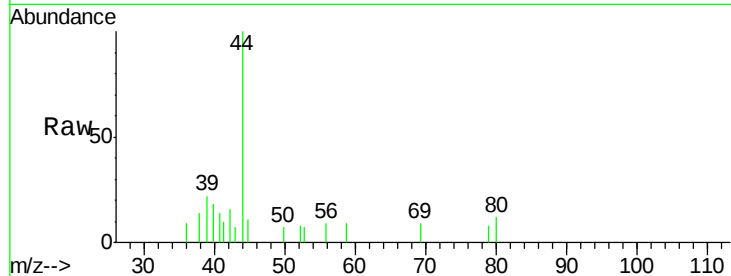


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.85 min Scan# 535
Delta R.T. -0.03 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

Instrument :
MSVOA_X
ClientSampled :

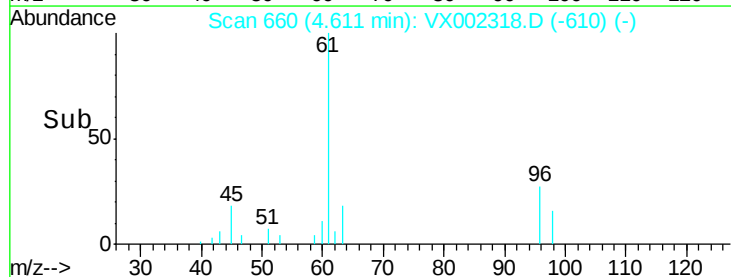
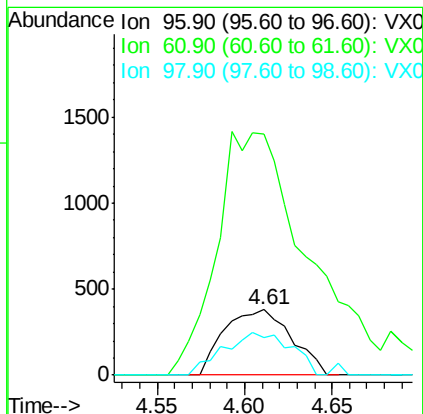
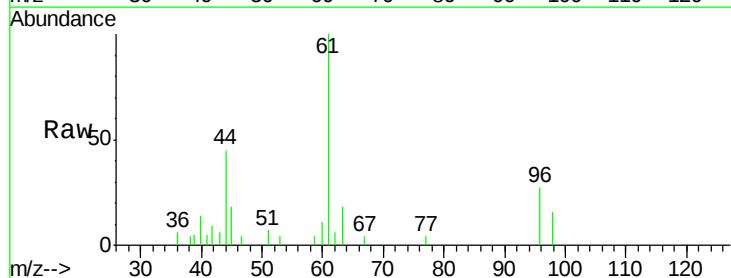
Tot Ion:	45	Resp:	80
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	81.9	8.7	13.1#

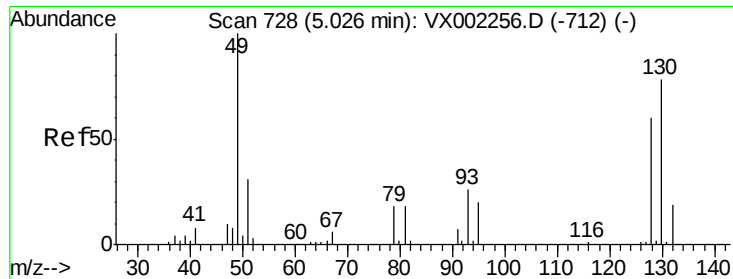


#27

cis-1,2-Dichloroethene
Concen: 0.36 ug/l
RT: 4.61 min Scan# 660
Delta R.T. 0.01 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

Tgt Ion:	96	Resp:	1023
Ion	Ratio	Lower	Upper
96	100		
61	498.5	0.0	330.2#
98	65.5	0.0	130.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.05 min Scan# 732

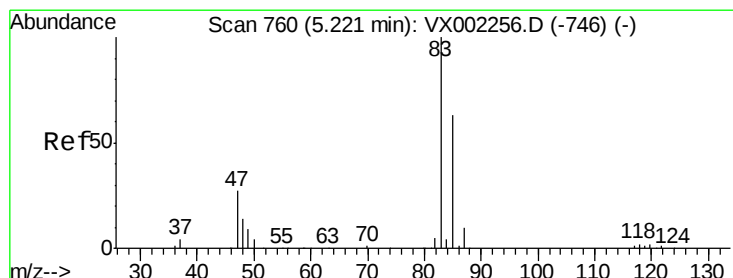
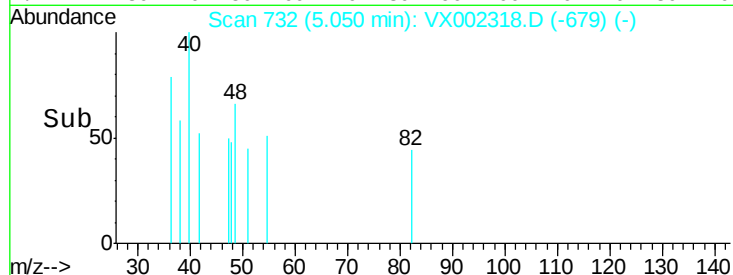
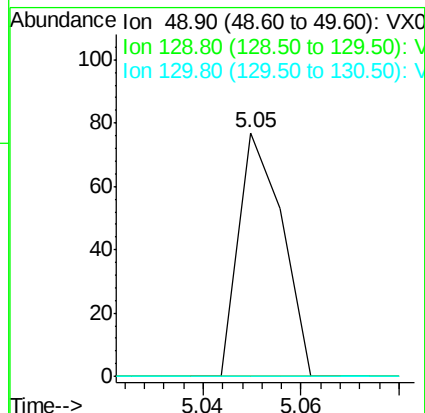
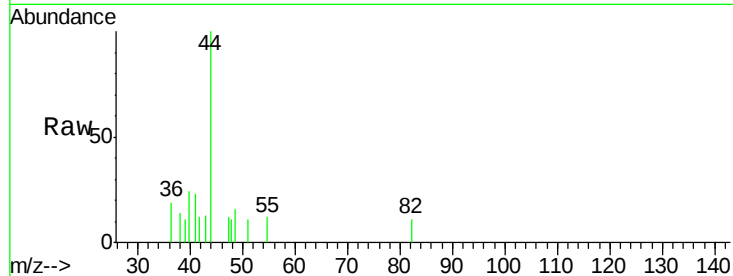
Delta R.T. 0.02 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 48
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#30

Chloroform

Concen: 0.95 ug/l

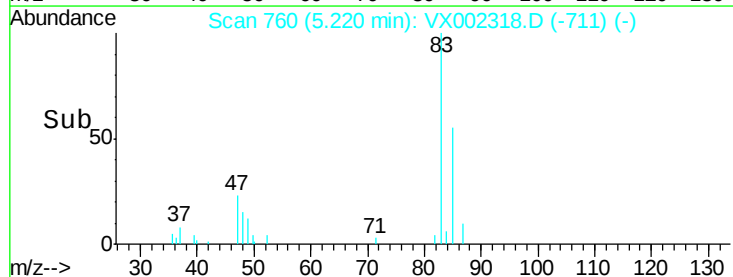
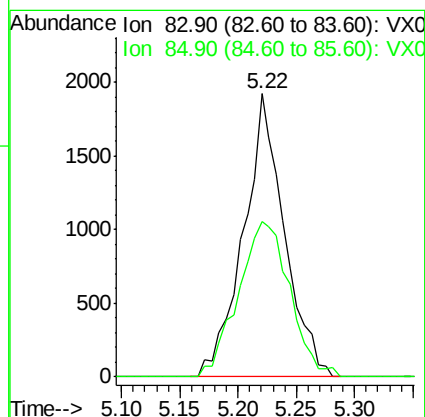
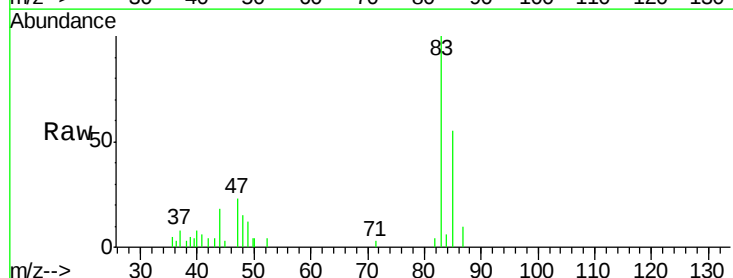
RT: 5.22 min Scan# 760

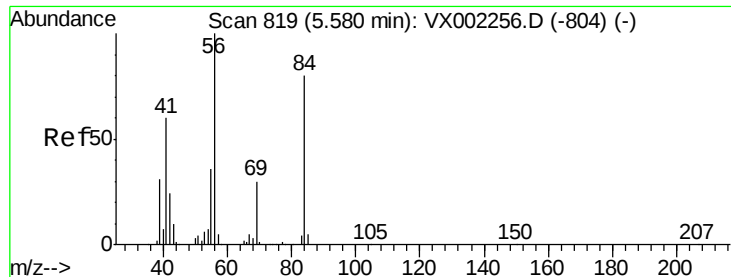
Delta R.T. -0.00 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Tgt Ion: 83 Resp: 4696
Ion Ratio Lower Upper
83 100
85 54.8 50.4 75.6

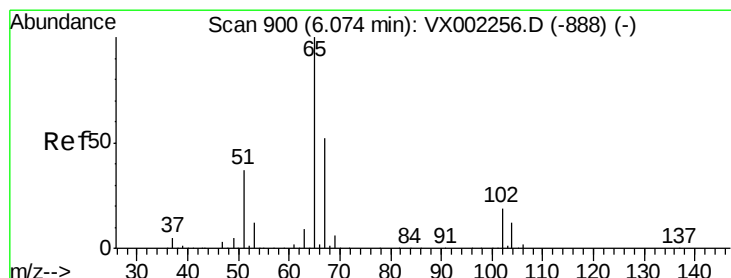
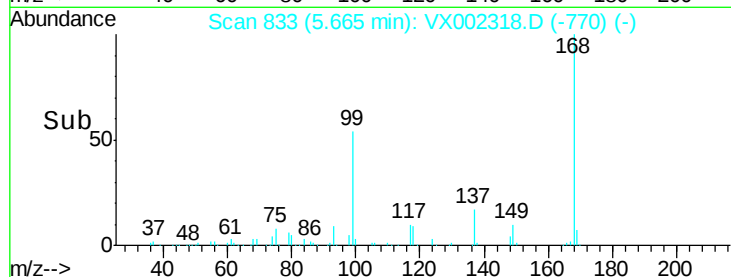
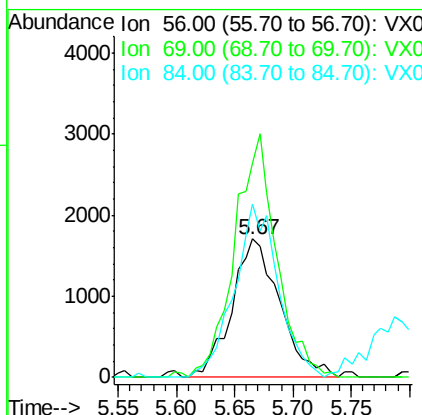
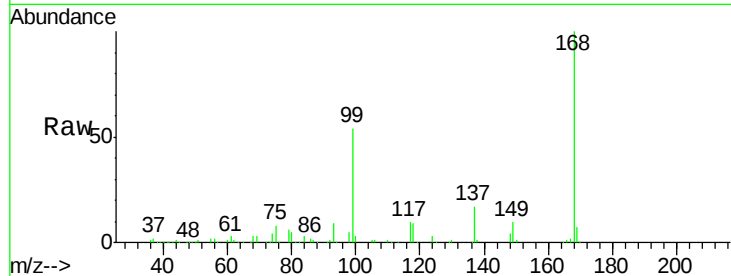




#31
Cyclohexane
Concen: 1.21 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

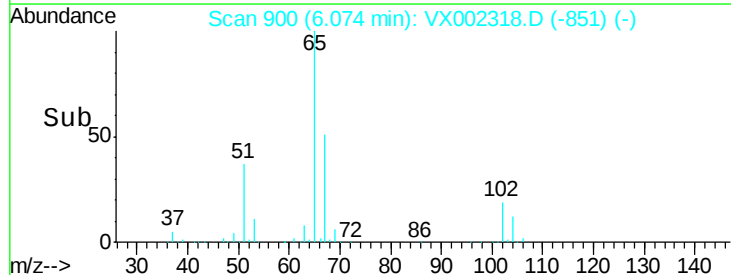
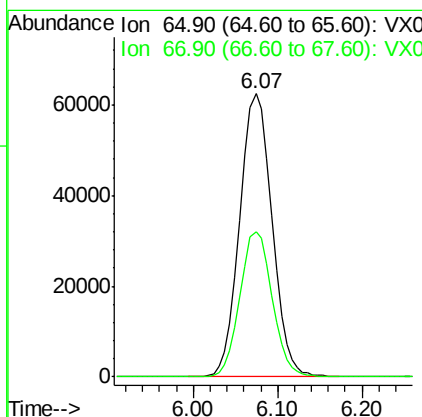
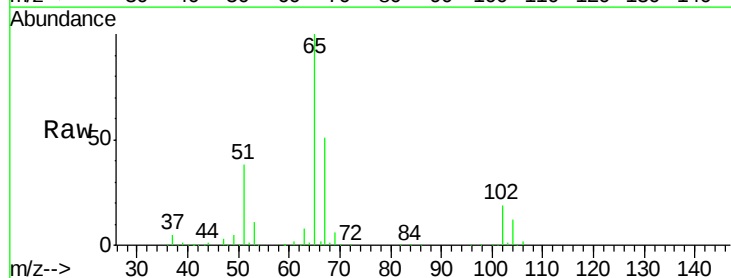
Instrument :
MSVOA_X
ClientSampleId :

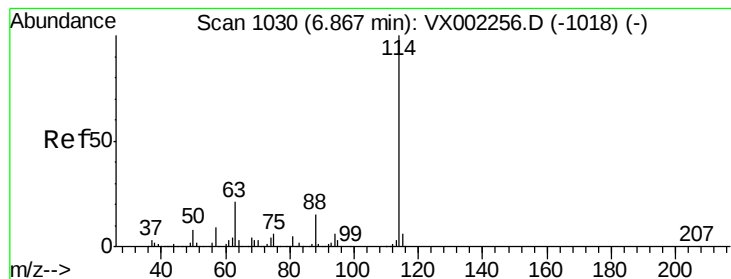
Tot Ion: 56 Resp: 4890
Ion Ratio Lower Upper
56 100
69 154.4 23.7 35.5#
84 124.8 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 50.87 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

Tgt Ion: 65 Resp: 162857
Ion Ratio Lower Upper
65 100
67 51.3 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: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :
MSVOA_X
ClientSampleId :

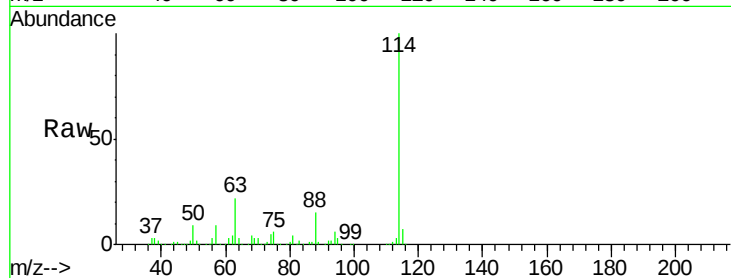
Tot Ion:114 Resp: 330811

Ion Ratio Lower Upper

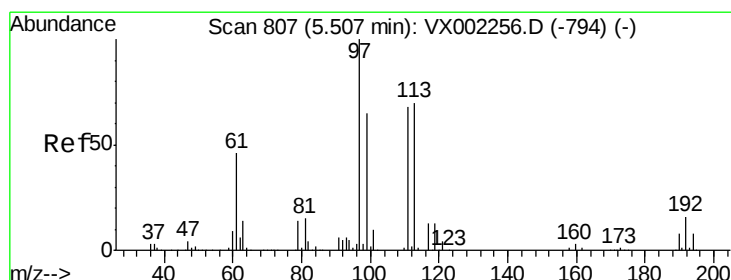
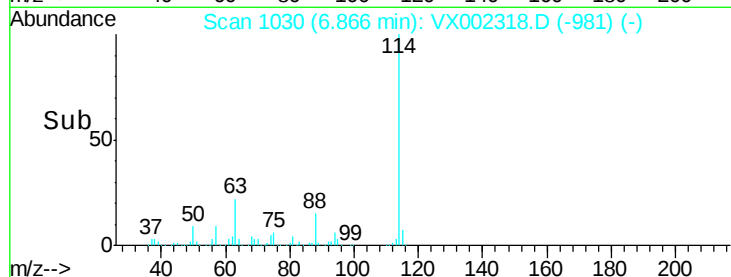
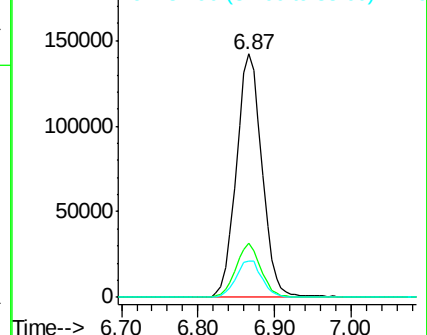
114 100

63 22.0 0.0 41.4

88 15.0 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: 45.23 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

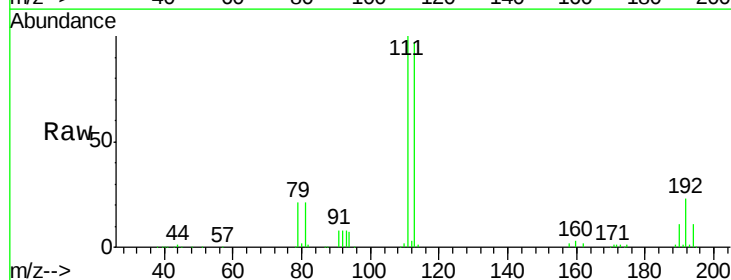
Tgt Ion:113 Resp: 117674

Ion Ratio Lower Upper

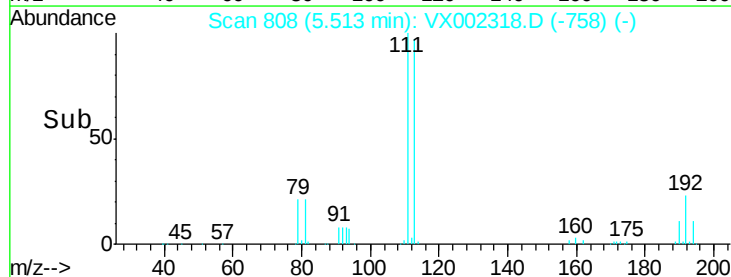
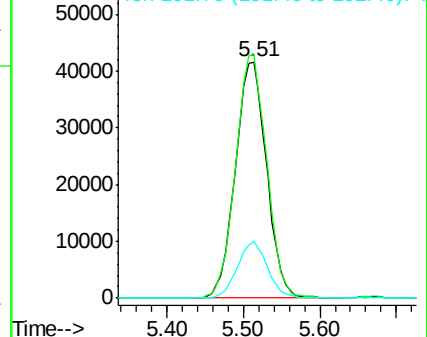
113 100

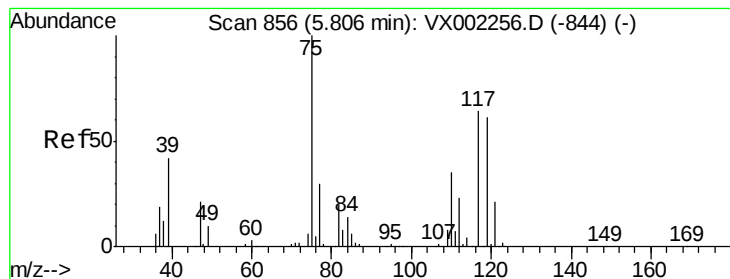
111 102.5 81.4 122.0

192 23.0 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: 4.80 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :

MSVOA_X

ClientSampleId :

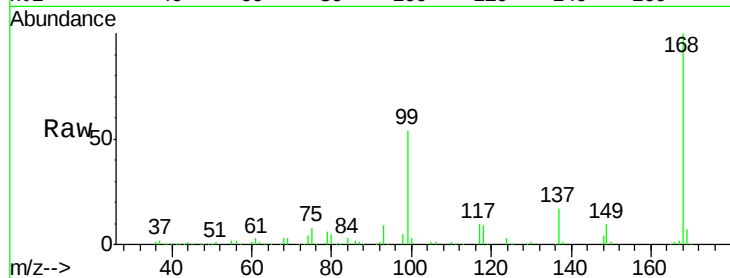
Tot Ion: 75 Resp: 16692

Ion Ratio Lower Upper

75 100

110 10.1 18.1 54.4#

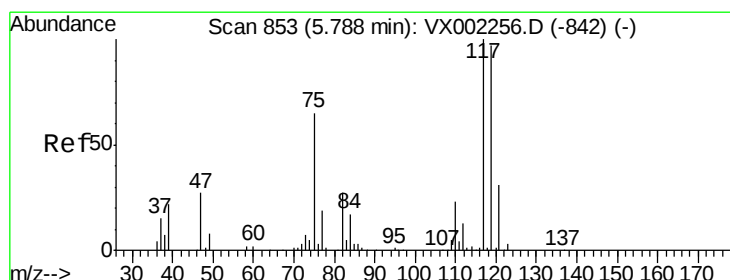
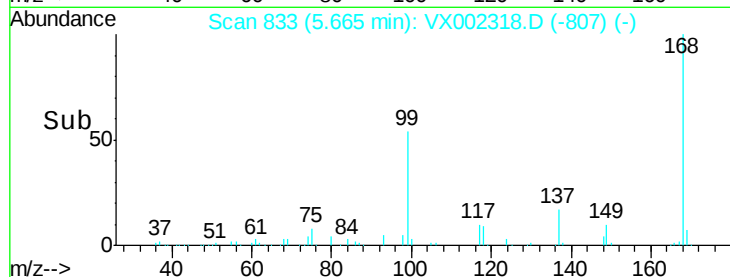
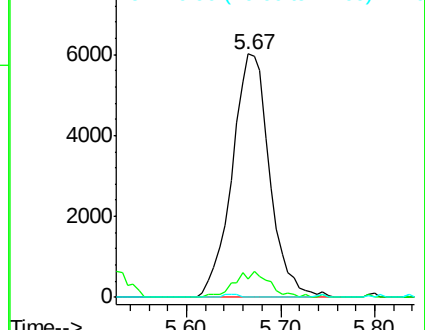
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 2.72 ug/l

RT: 5.79 min Scan# 853

Delta R.T. -0.00 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

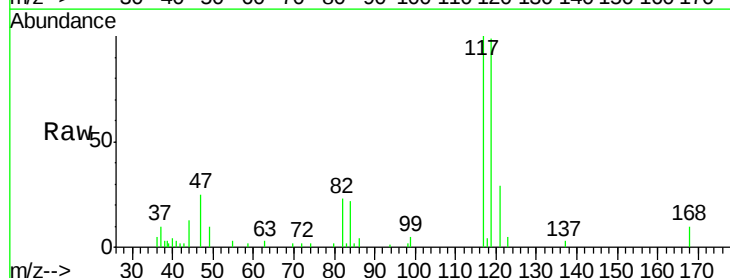
Tgt Ion: 117 Resp: 9889

Ion Ratio Lower Upper

117 100

119 98.8 77.4 116.0

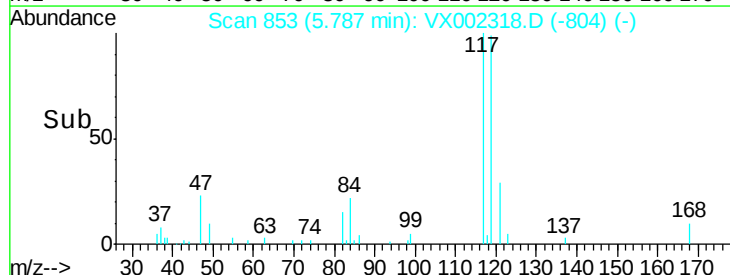
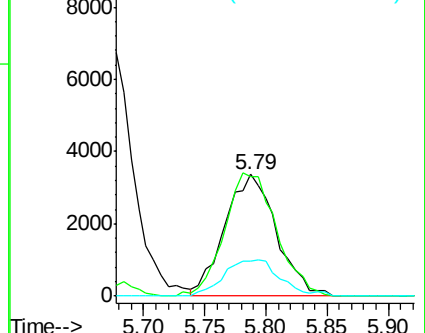
121 29.1 24.4 36.6

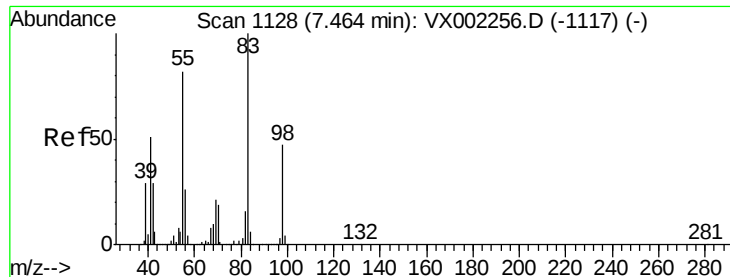


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

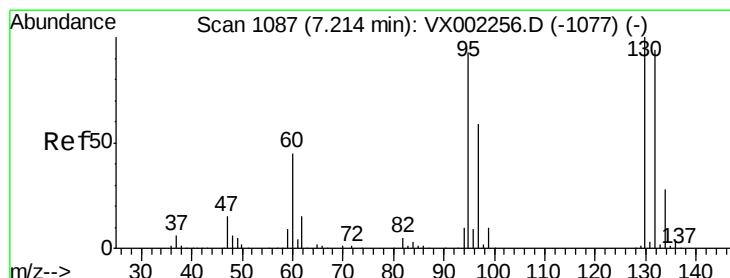
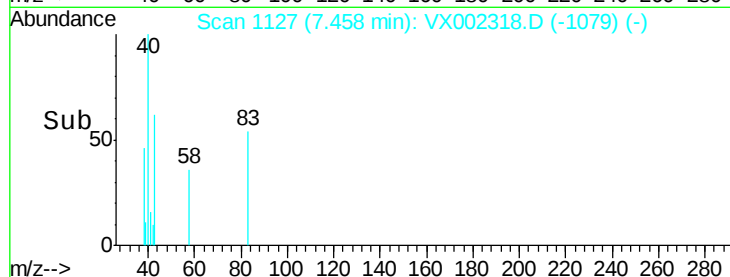
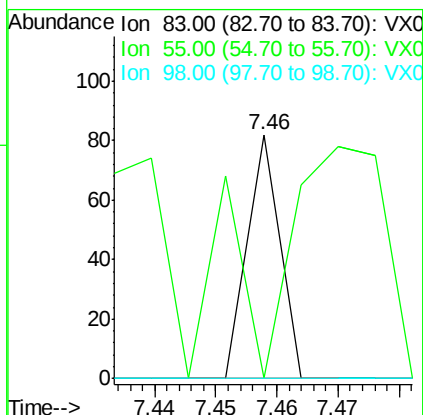
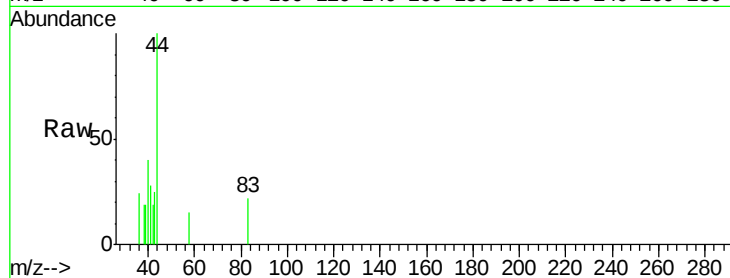




#39
Methvlcvclohexane
Concen: 0.27 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

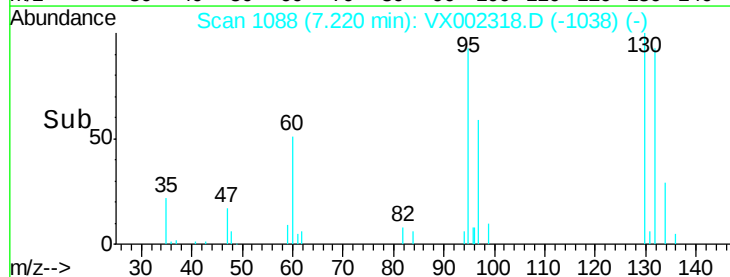
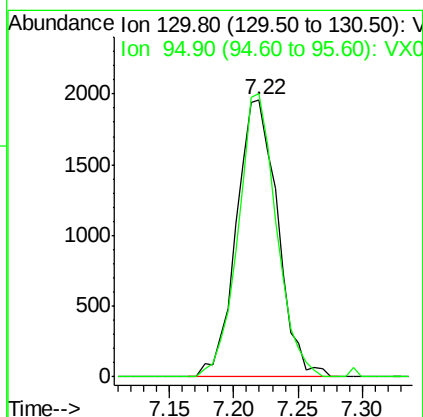
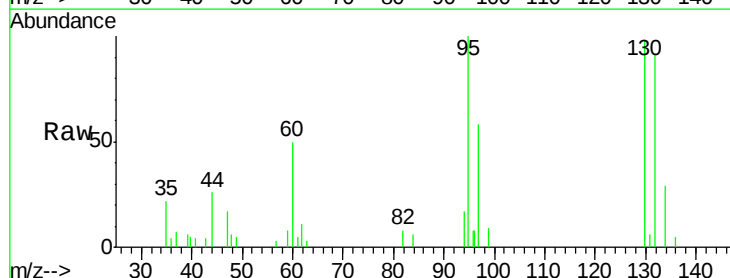
Instrument :
MSVOA_X
ClientSampleId :

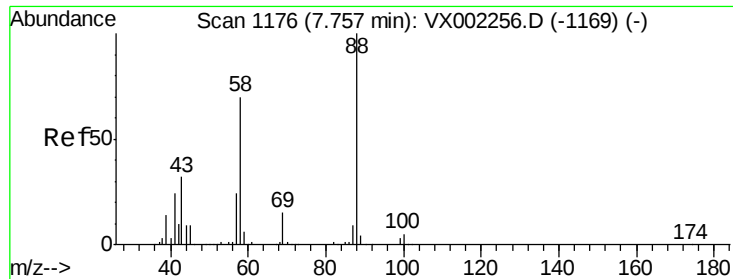
Tot Ion: 83 Resp: 30
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 37.4 56.0#



#44
Trichloroethene
Concen: 1.47 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

Tgt Ion:130 Resp: 4337
Ion Ratio Lower Upper
130 100
95 102.0 0.0 185.4

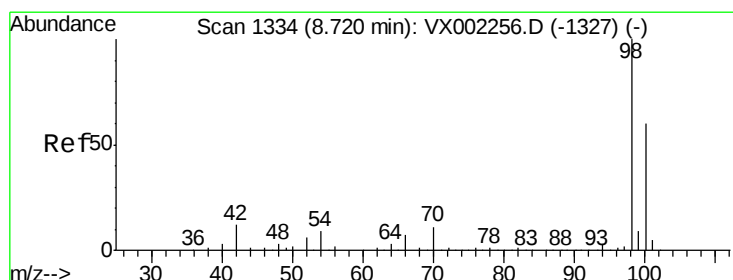
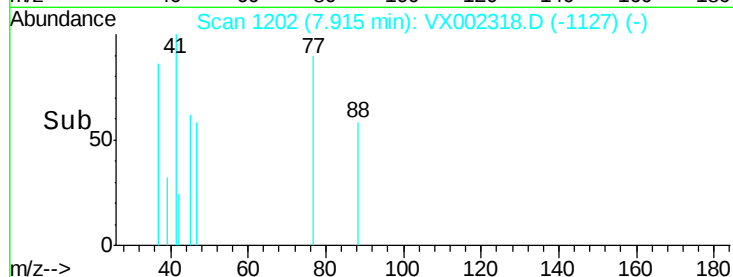
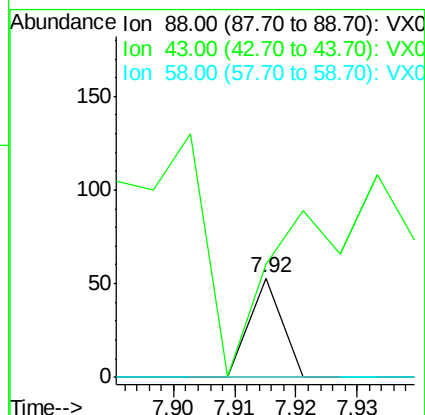
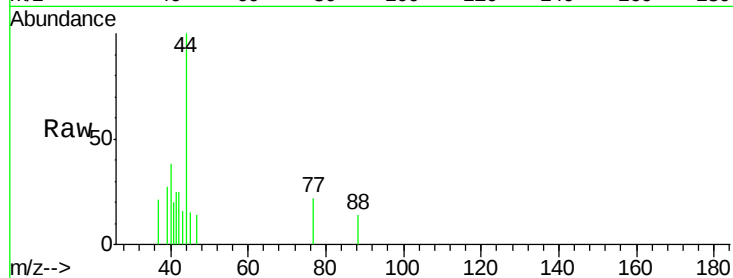




#49
1,4-Dioxane
Concen: 0.28 ug/l
RT: 7.92 min Scan# 1202
Delta R.T. 0.16 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

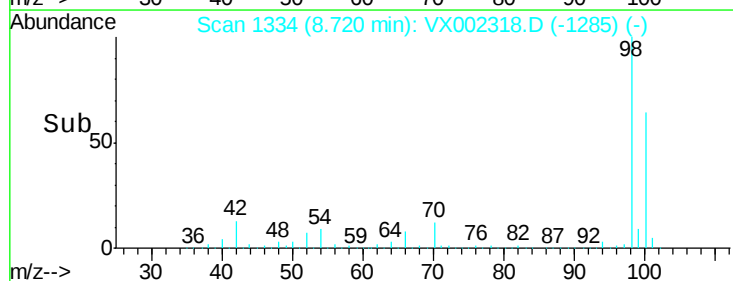
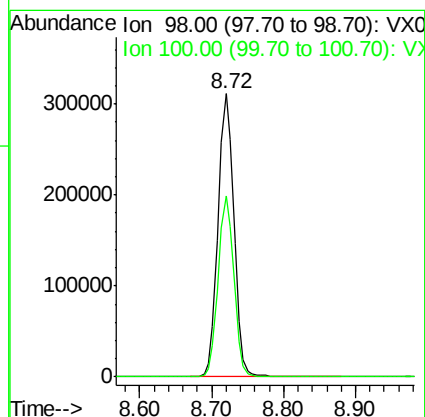
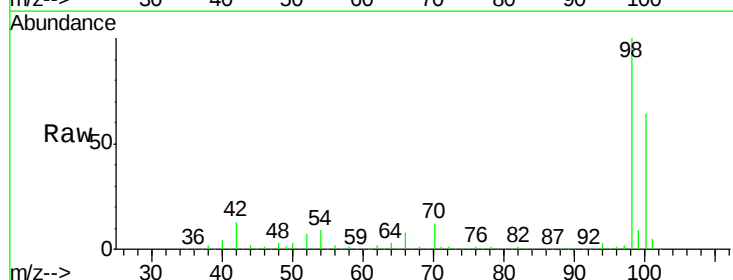
Instrument :
MSVOA_X
ClientSampleId :

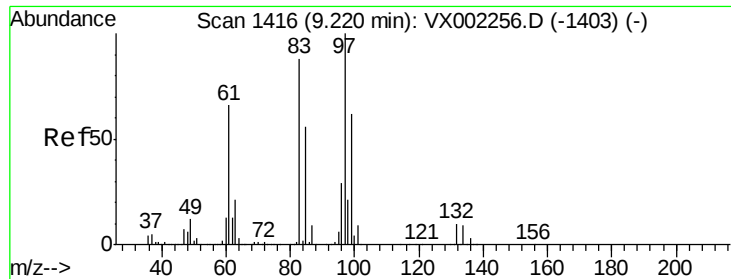
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1147.4 29.8 44.6#
58 0.0 57.1 85.7#



#50
Toluene-d8
Concen: 47.77 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

Tgt Ion: 98 Resp: 476362
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3

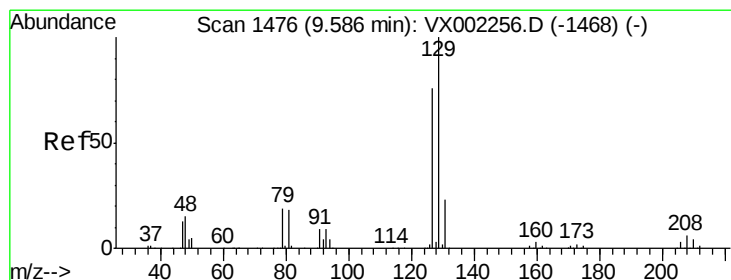
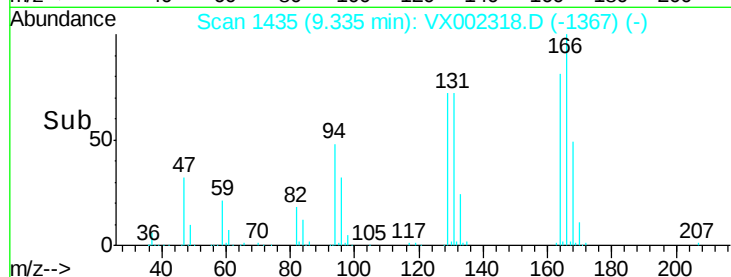
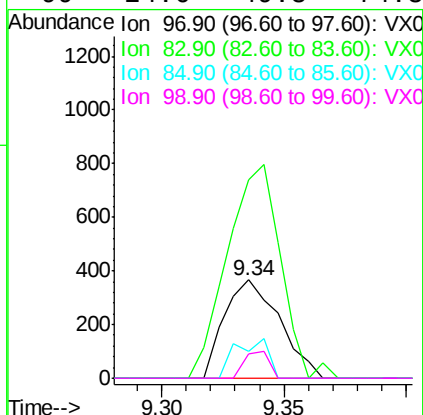
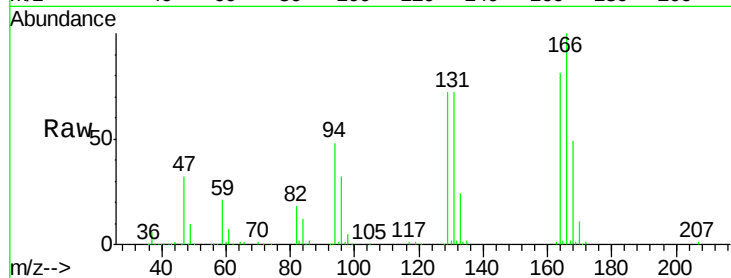




#55
 1,1,2-Trichloroethane
 Concen: 0.21 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. 0.12 min
 Lab File: VX002318.D
 Acq: 05 Jun 2018 20:51

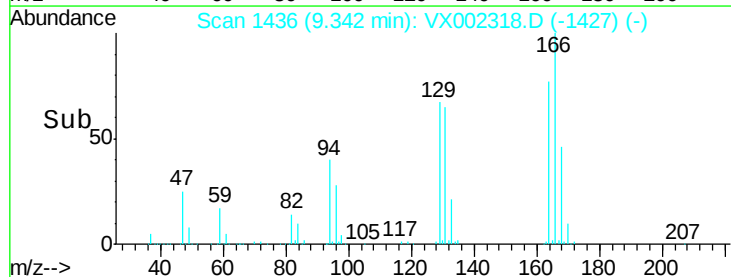
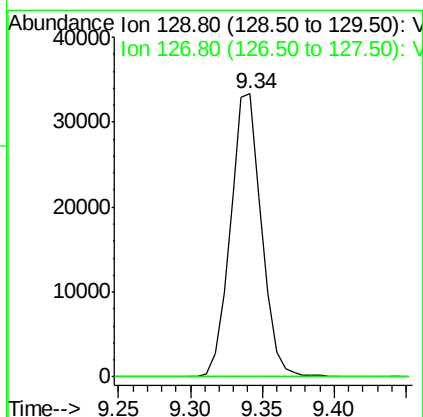
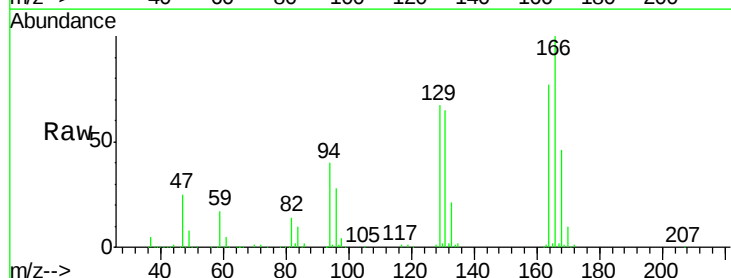
Instrument :
 MSVOA_X
 ClientSampleId :

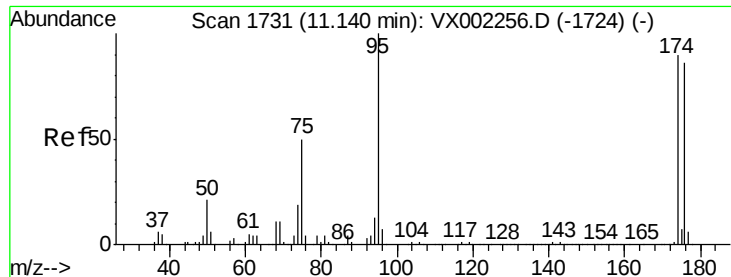
Tot Ion: 97 Resp: 573
 Ion Ratio Lower Upper
 97 100
 83 202.7 70.2 105.2#
 85 27.0 44.9 67.3#
 99 24.6 49.8 74.8#



#60
 Dibromochloromethane
 Concen: 17.85 ug/l
 RT: 9.34 min Scan# 1436
 Delta R.T. -0.24 min
 Lab File: VX002318.D
 Acq: 05 Jun 2018 20:51

Tgt Ion: 129 Resp: 50077
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.3#

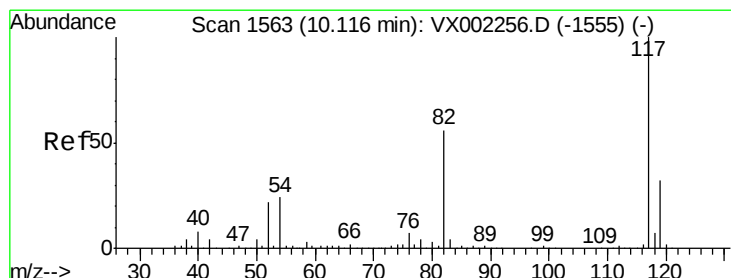
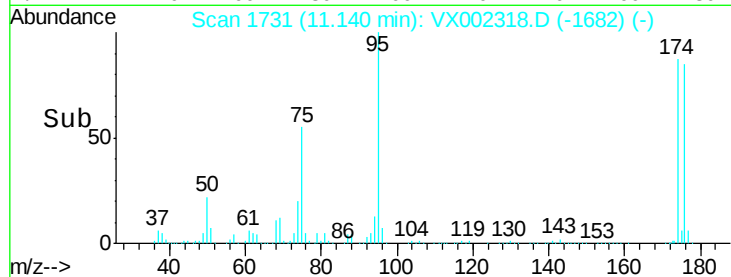
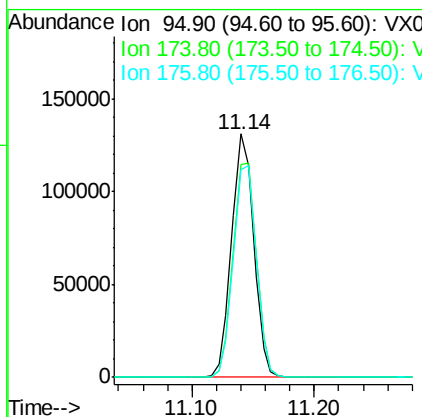
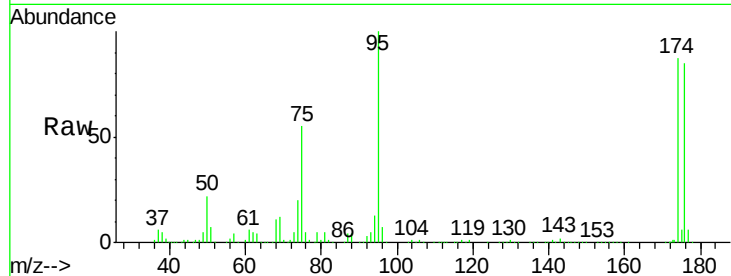




#62
4-Bromofluorobenzene
Concen: 42.71 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

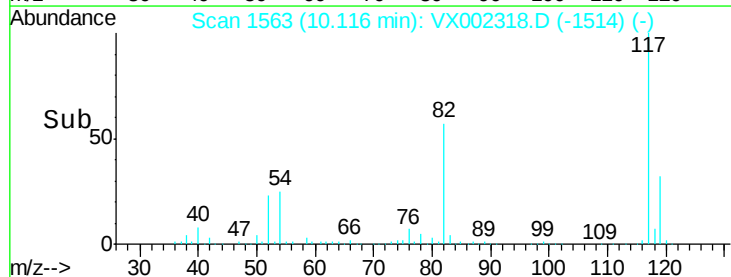
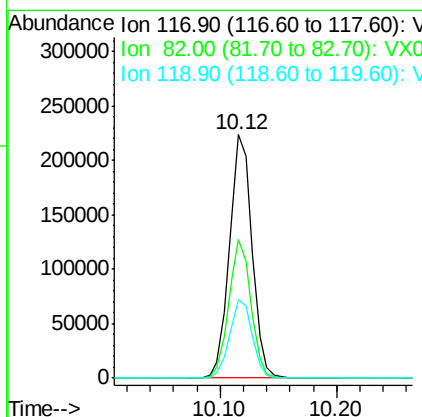
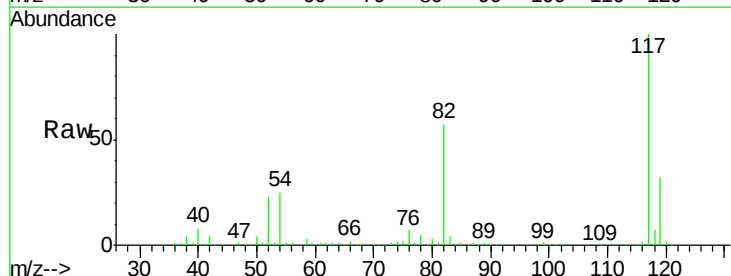
Instrument :
MSVOA_X
ClientSampleId :

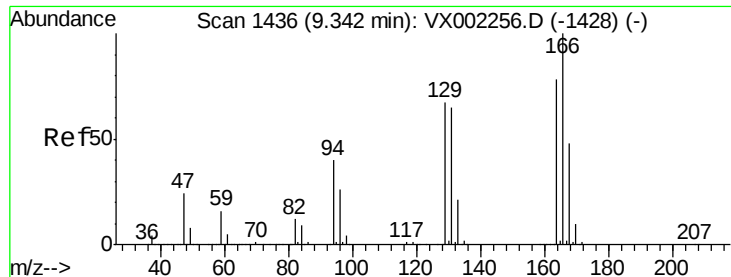
Tot Ion: 95 Resp: 164234
Ion Ratio Lower Upper
95 100
174 93.0 0.0 187.4
176 90.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002318.D
Acq: 05 Jun 2018 20:51

Tgt Ion: 117 Resp: 301623
Ion Ratio Lower Upper
117 100
82 56.8 45.0 67.4
119 32.3 25.8 38.6





#64

Tetrachloroethene

Concen: 18.16 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 56491

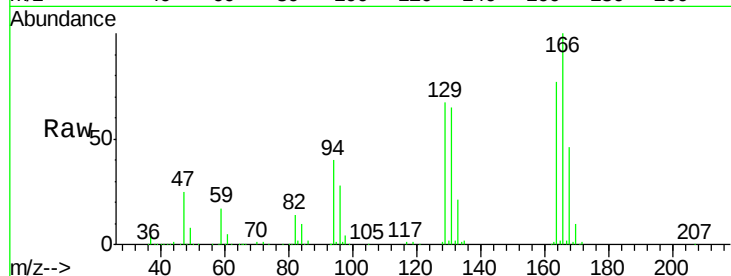
Ion Ratio Lower Upper

164 100

166 129.1 102.9 154.3

129 86.4 68.6 102.8

131 84.4 66.8 100.2

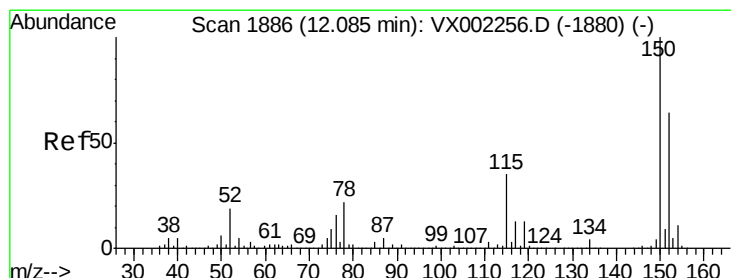
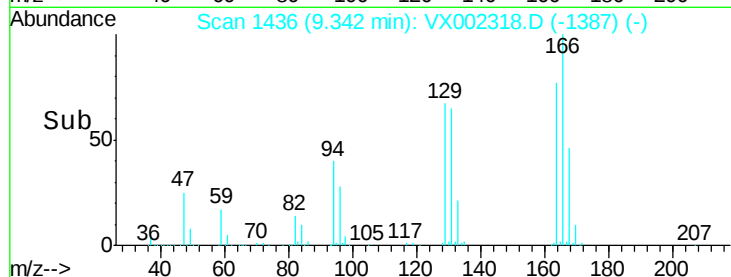
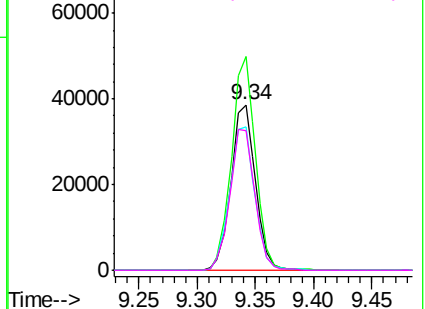


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

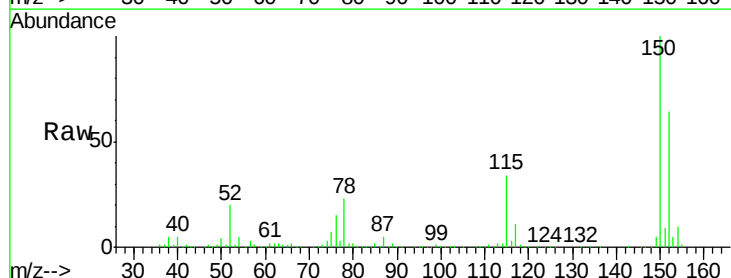
Tgt Ion:152 Resp: 166341

Ion Ratio Lower Upper

152 100

115 55.4 40.1 120.2

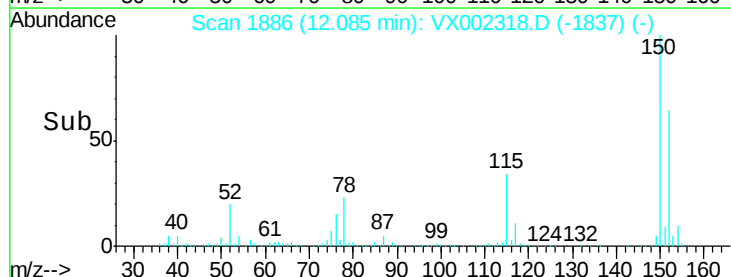
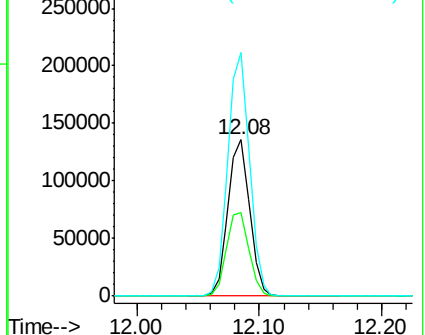
150 155.3 0.0 347.2

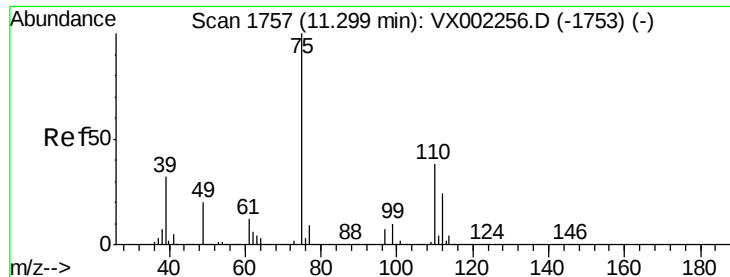


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

Instrument :

MSVOA_X

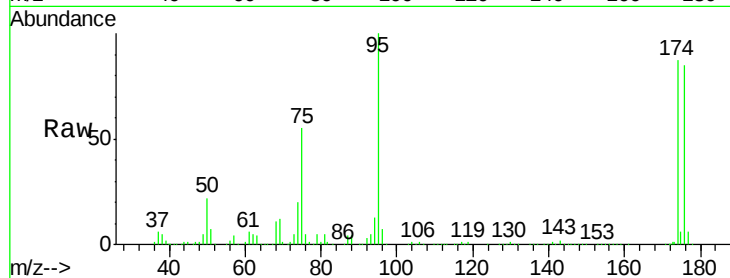
ClientSampled :

Tot Ion: 75 Resp: 89759

Ion Ratio Lower Upper

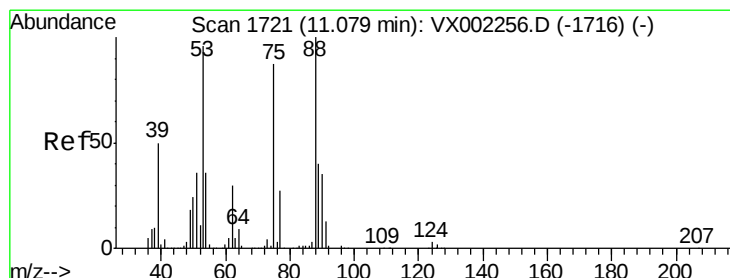
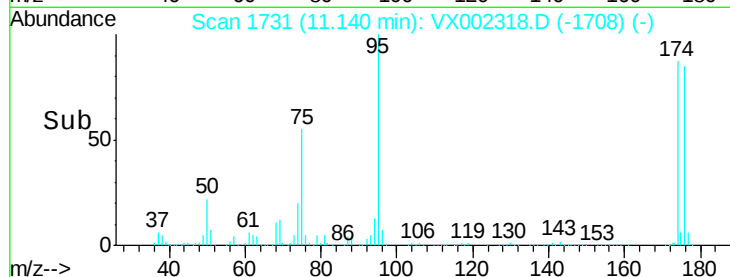
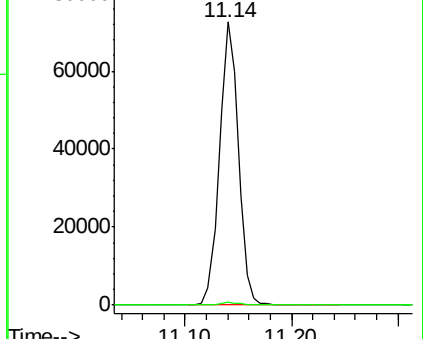
75 100

77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 86.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002318.D

Acq: 05 Jun 2018 20:51

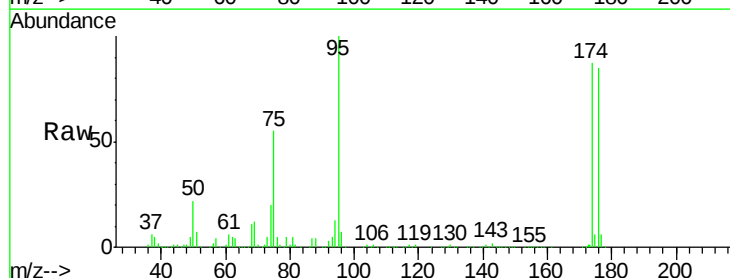
Tgt Ion: 75 Resp: 89759

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#



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

