

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061218\
 Data File : VX002488.D
 Acq On : 13 Jun 2018 01:44
 Operator : JC/MD
 Sample : J3444-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 03:31:07 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	212886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	311663	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	297216	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	169879	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	153427	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
35) Dibromofluoromethane	5.51	113	115388	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	
50) Toluene-d8	8.72	98	457155	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	11.14	95	162473	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	

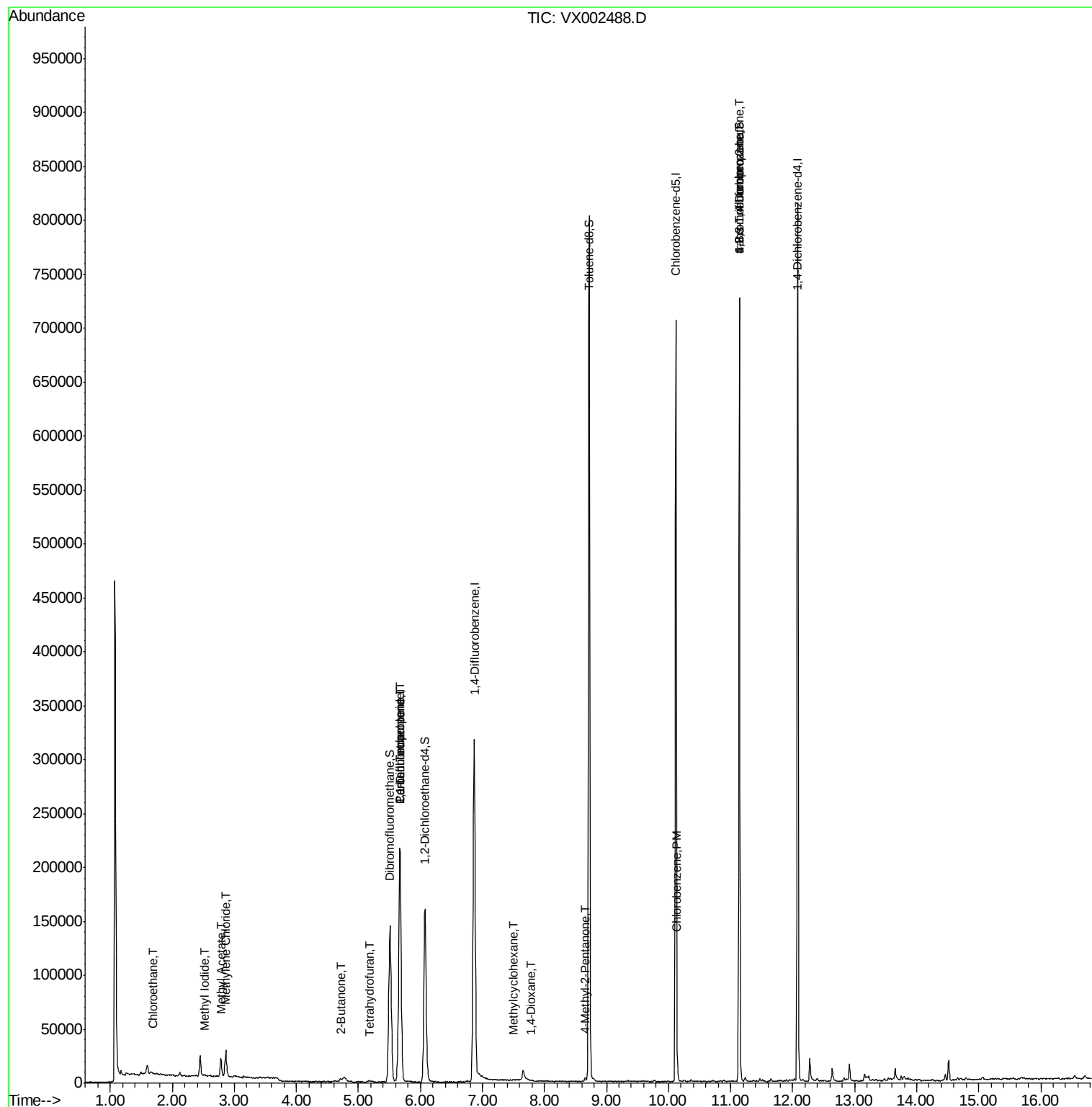
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	483	Below Cal	#	88
5) Bromomethane	1.61	94	351	Below Cal	#	3
6) Chloroethane	1.69	64	557	0.31	ug/l	43
8) Diethyl Ether	2.20	74	116	Below Cal	#	31
10) Methyl Iodide	2.53	142	1650	0.51	ug/l	83
11) Tert butyl alcohol	3.07	59	397	Below Cal	#	52
13) Acrolein	2.29	56	159	Below Cal	#	69
15) Acrylonitrile	3.16	53	290	Below Cal	#	27
16) Acetone	2.45	43	20247	Below Cal		100
18) Methyl Acetate	2.78	43	20820	4.36	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	78	Below Cal	#	54
20) Methylene Chloride	2.86	84	10973	1.90	ug/l	90
22) Diisopropyl ether	3.87	45	323	Below Cal	#	35
25) 2-Butanone	4.71	43	5109	2.45	ug/l	97
28) Bromochloromethane	5.02	49	49	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	970	0.72	ug/l	99
36) 1,1-Dichloropropene	5.67	75	15641	4.77	ug/l	50
38) Carbon Tetrachloride	5.67	117	19805	5.78	ug/l	15
39) Methylcyclohexane	7.49	83	19	0.27	ug/l	32
49) 1,4-Dioxane	7.79	88	19	0.30	ug/l	22
51) 4-Methyl-2-Pentanone	8.66	43	2145	0.51	ug/l	81
65) Chlorobenzene	10.14	112	2097	0.28	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	88019	23.61	ug/l	32
81) trans-1,4-Dichloro-2-buten	11.14	75	88019	82.77	ug/l	7

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

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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: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :

MSVOA_X

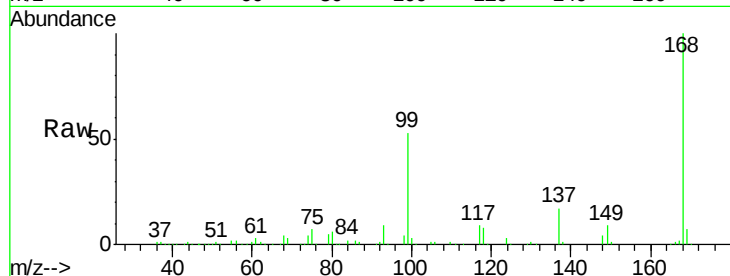
ClientSampleId :

Tot Ion:168 Resp: 212886

Ion Ratio Lower Upper

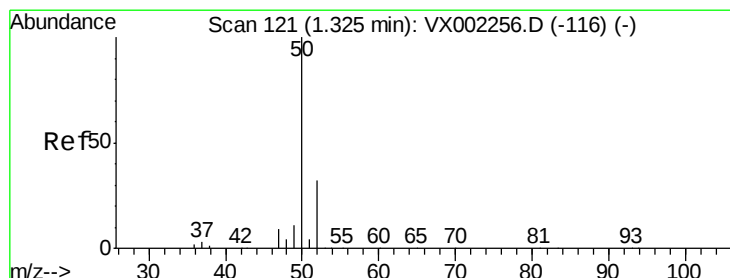
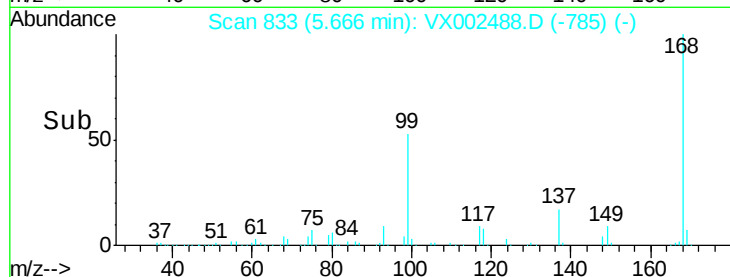
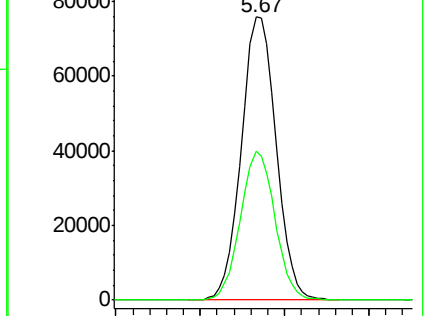
168 100

99 52.7 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: VX002488.D

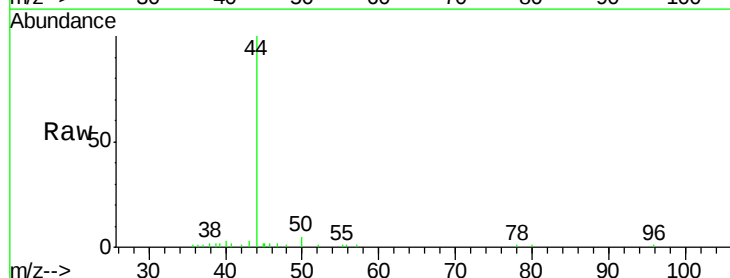
Acq: 13 Jun 2018 01:44

Tgt Ion: 50 Resp: 483

Ion Ratio Lower Upper

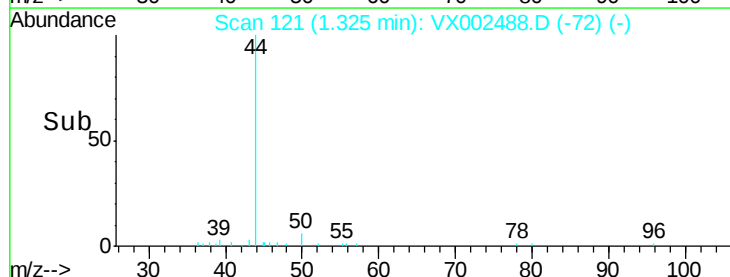
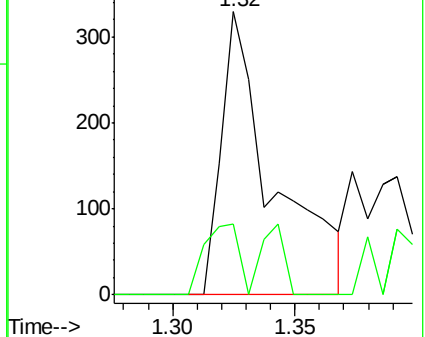
50 100

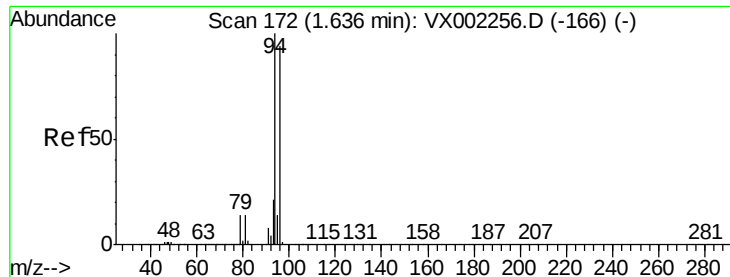
52 25.2 25.7 38.5#



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: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

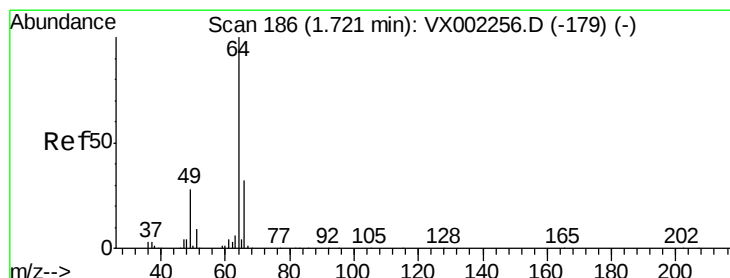
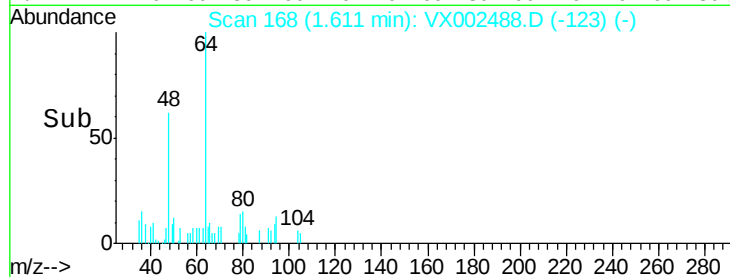
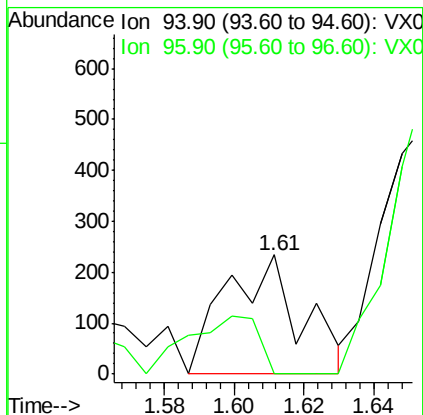
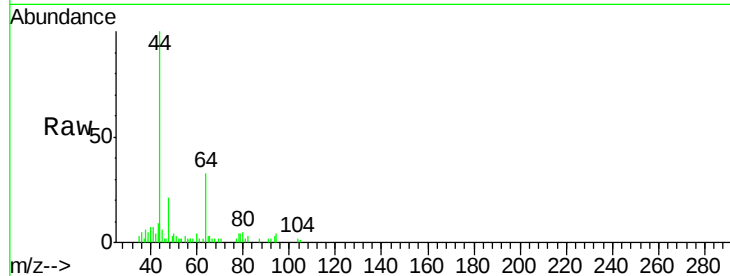
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 351

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



#6

Chloroethane

Concen: 0.31 ug/l

RT: 1.69 min Scan# 181

Delta R.T. -0.03 min

Lab File: VX002488.D

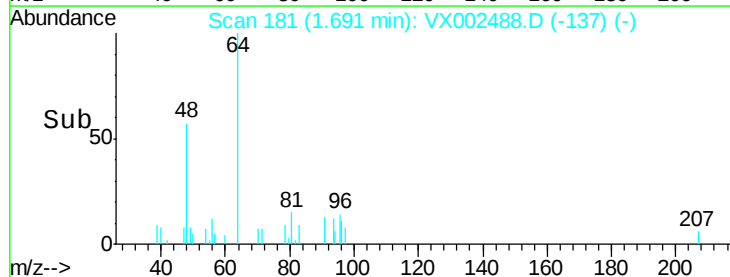
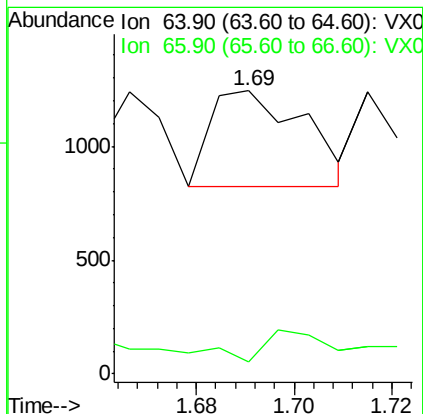
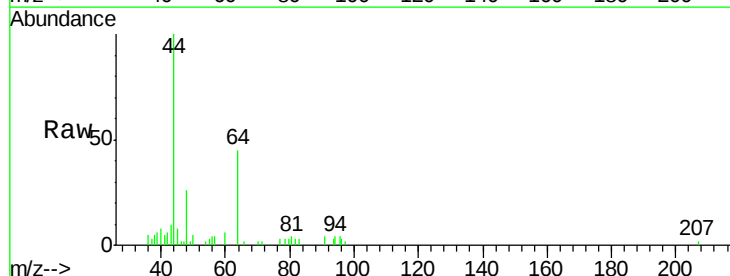
Acq: 13 Jun 2018 01:44

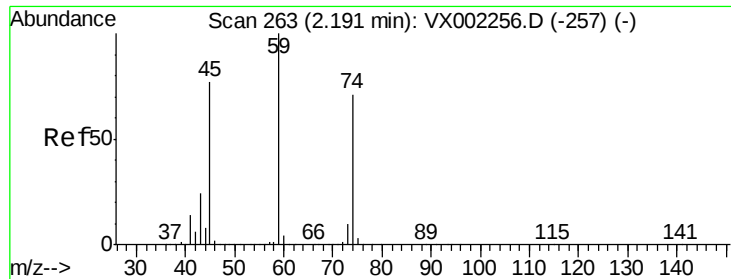
Tgt Ion: 64 Resp: 557

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :

MSVOA_X

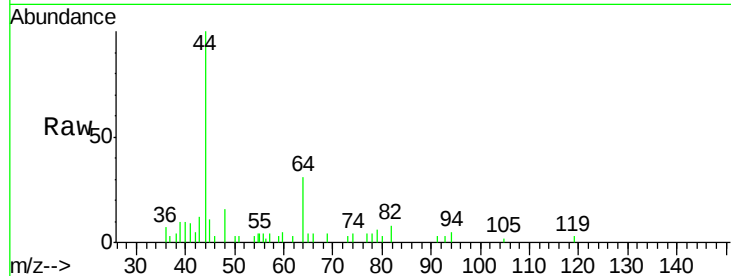
ClientSampleId :

Tot Ion: 74 Resp: 116

Ion Ratio Lower Upper

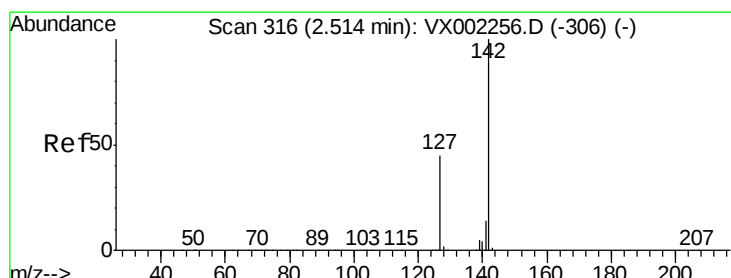
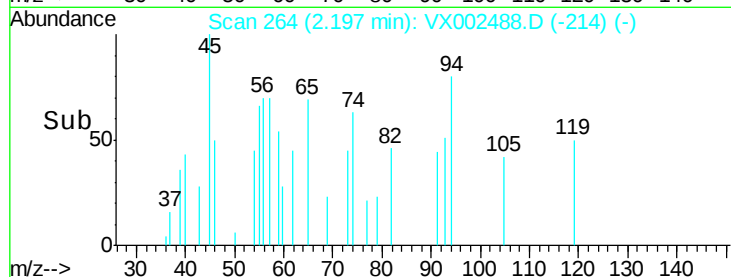
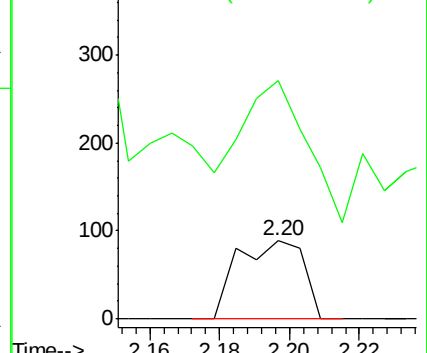
74 100

45 177.6 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: 0.51 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

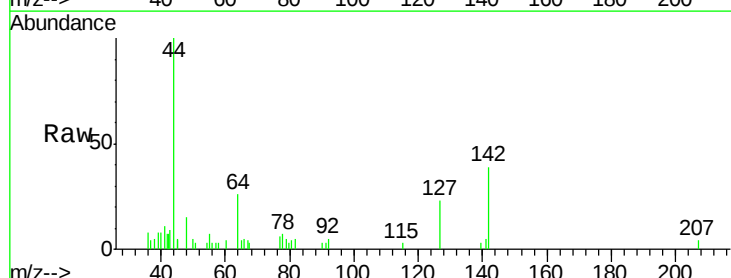
Tgt Ion: 142 Resp: 1650

Ion Ratio Lower Upper

142 100

127 58.3 36.6 55.0#

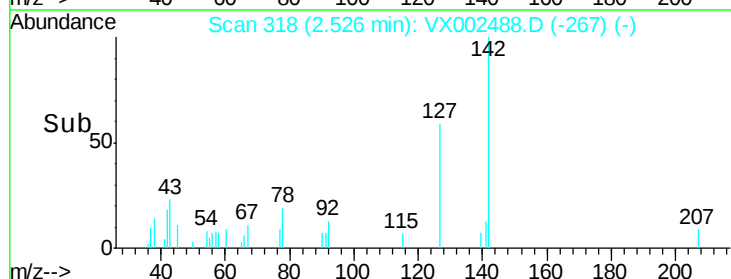
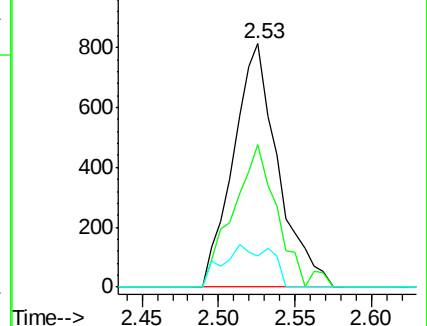
141 18.8 11.3 16.9#

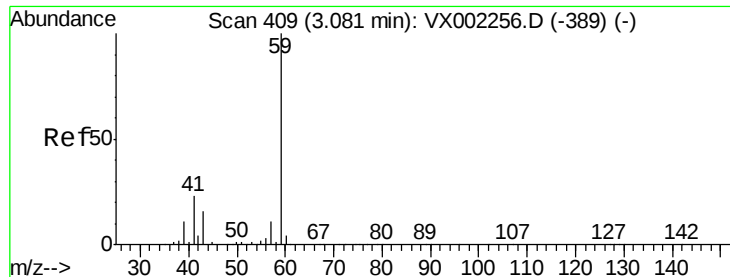


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

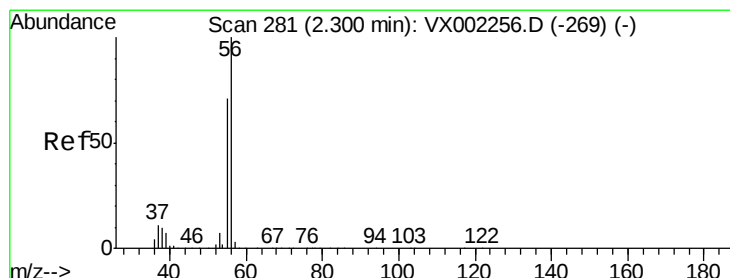
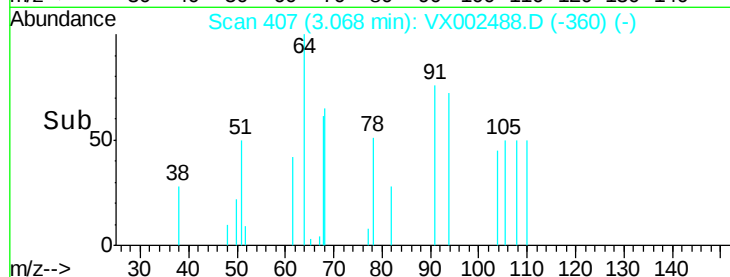
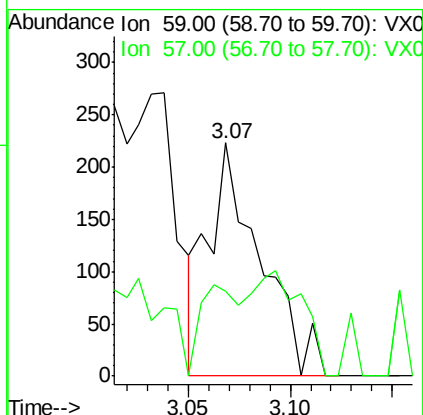
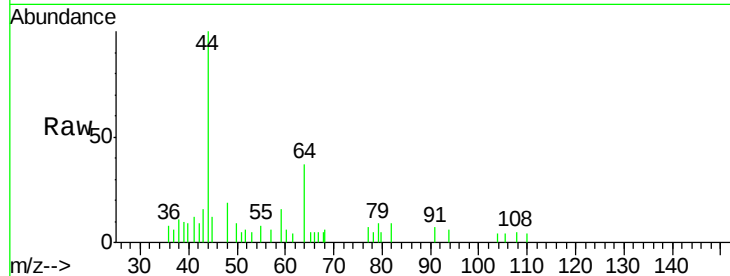




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

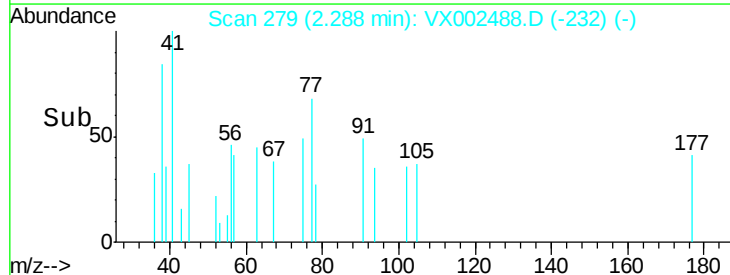
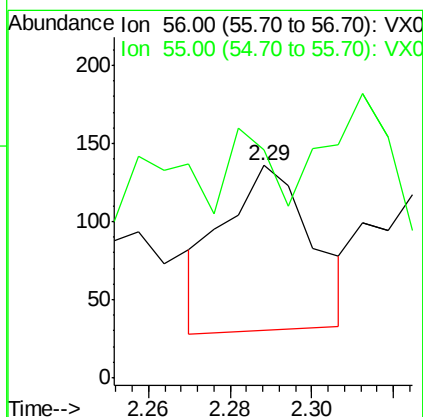
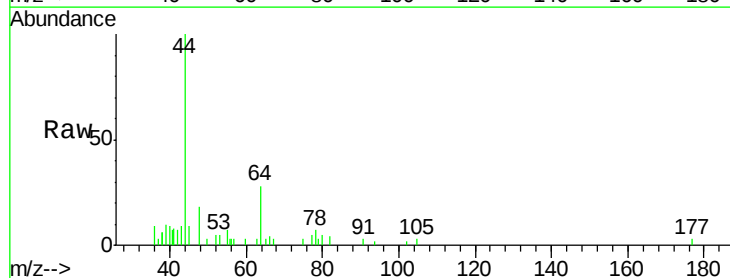
Instrument :
MSVOA_X
ClientSampled :

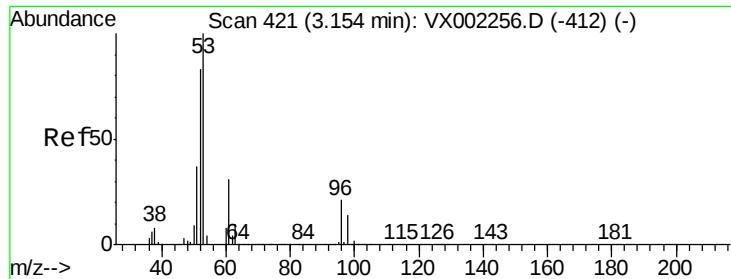
Tot Ion: 59 Resp: 397
Ion Ratio Lower Upper
59 100
57 28.2 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

Tgt Ion: 56 Resp: 159
Ion Ratio Lower Upper
56 100
55 45.3 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :

MSVOA_X

ClientSampled :

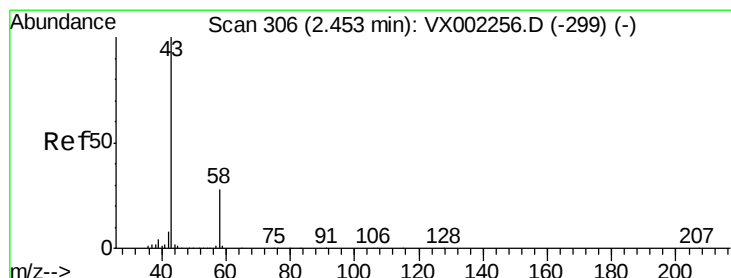
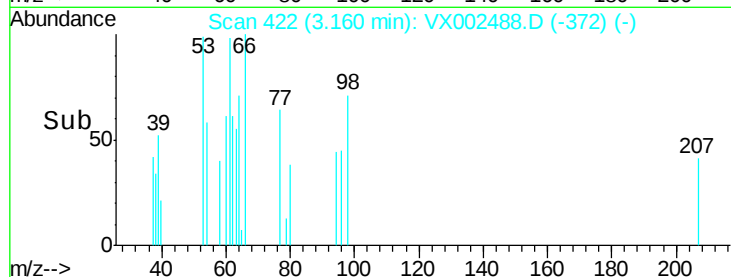
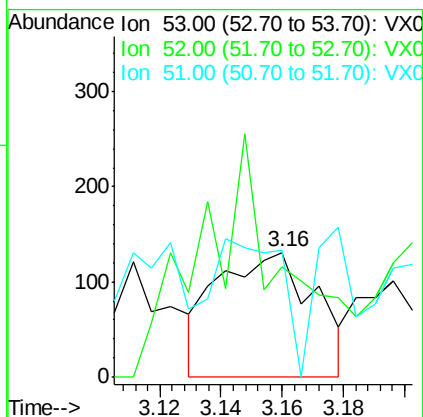
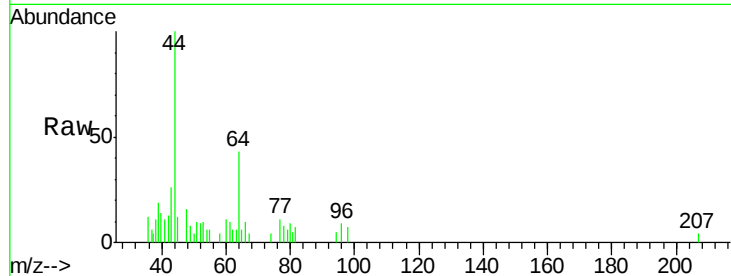
Tot Ion: 53 Resp: 290

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 54.8 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002488.D

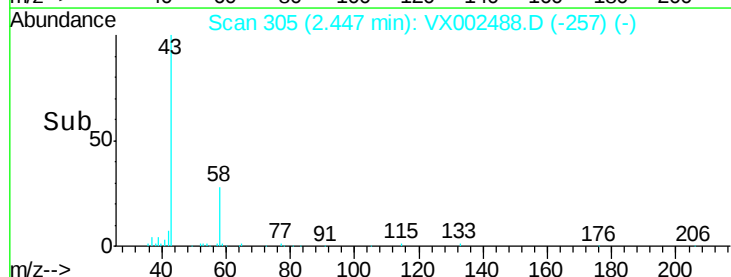
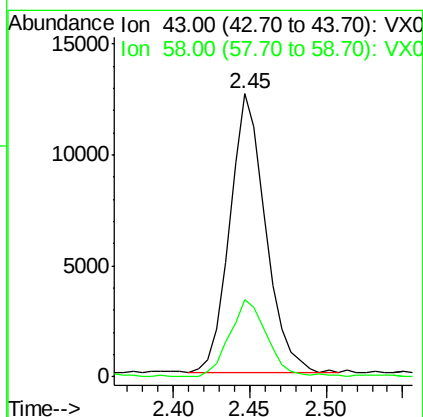
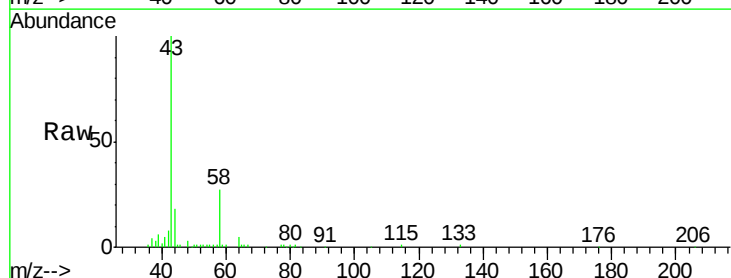
Acq: 13 Jun 2018 01:44

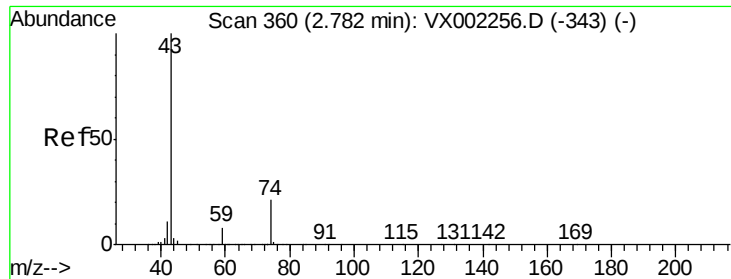
Tgt Ion: 43 Resp: 20247

Ion Ratio Lower Upper

43 100

58 27.6 22.1 33.1

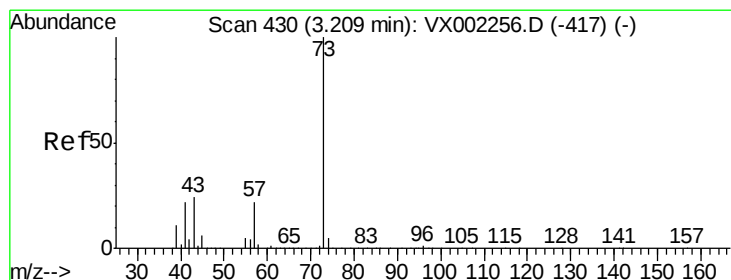
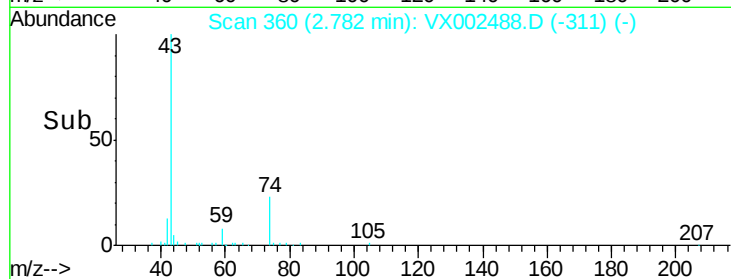
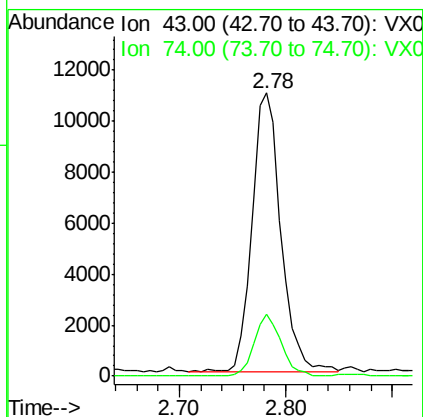
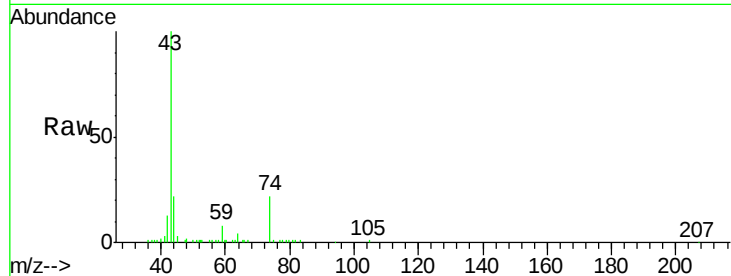




#18
Methyl Acetate
Concen: 4.36 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

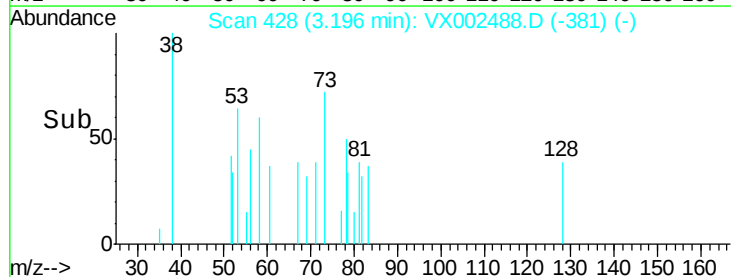
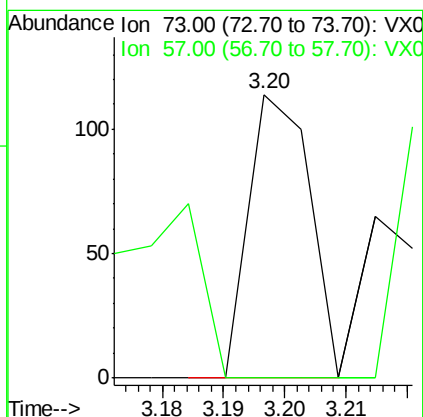
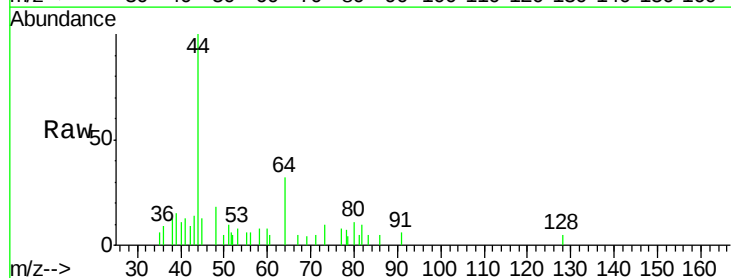
Instrument :
MSVOA_X
ClientSampleId :

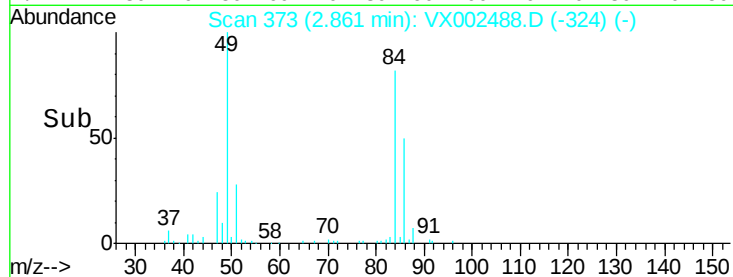
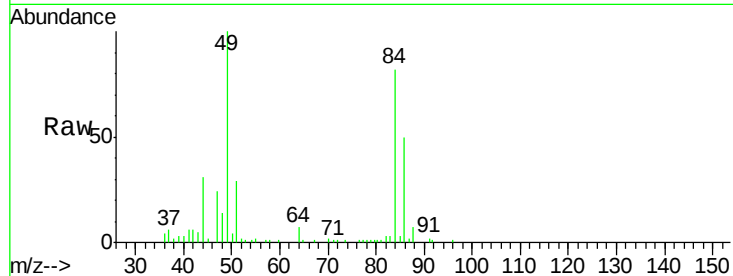
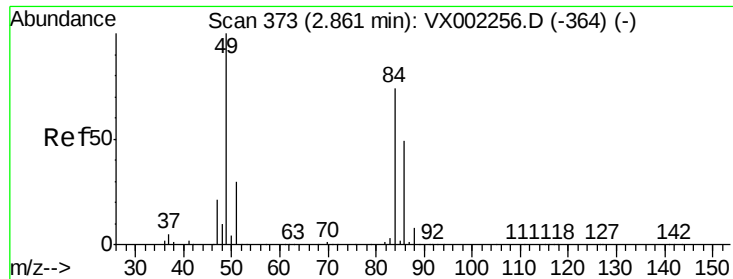
Tot Ion: 43 Resp: 20820
Ion Ratio Lower Upper
43 100
74 20.6 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

Tgt Ion: 73 Resp: 78
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#





#20

Methylene Chloride

Concen: 1.90 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 84 Resp: 10973

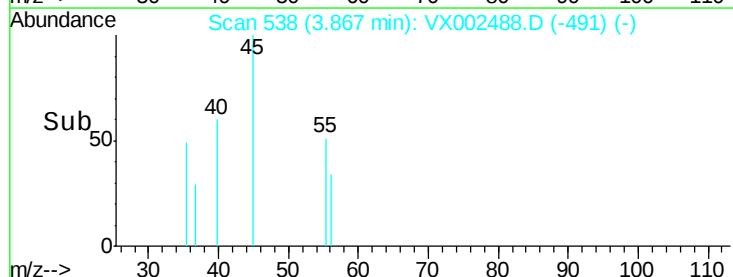
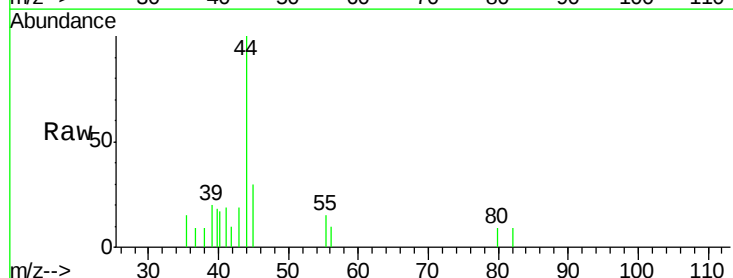
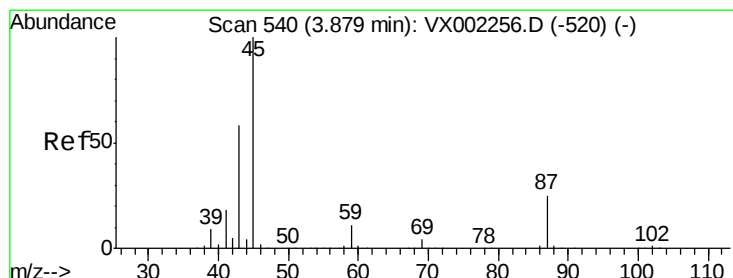
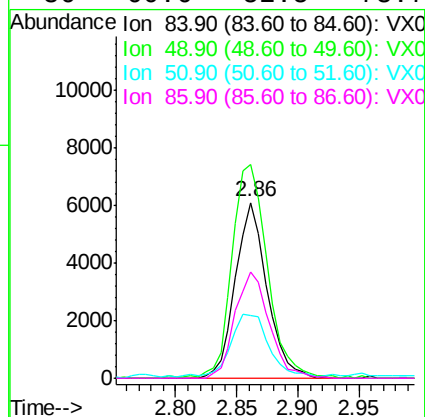
Ion Ratio Lower Upper

84 100

49 121.7 107.8 161.6

51 34.0 32.8 49.2

86 60.6 52.5 78.7



#22

Diisopropyl ether

Concen: Below Cal

RT: 3.87 min Scan# 538

Delta R.T. -0.01 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Tgt Ion: 45 Resp: 323

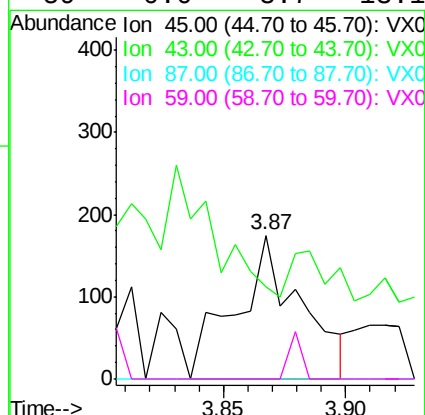
Ion Ratio Lower Upper

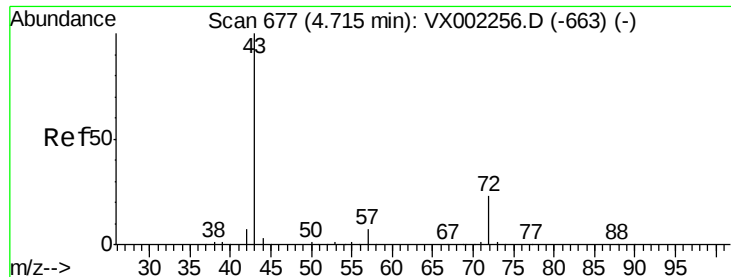
45 100

43 0.0 46.8 70.2#

87 0.0 20.2 30.4#

59 0.0 8.7 13.1#





#25

2-Butanone

Concen: 2.45 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :

MSVOA_X

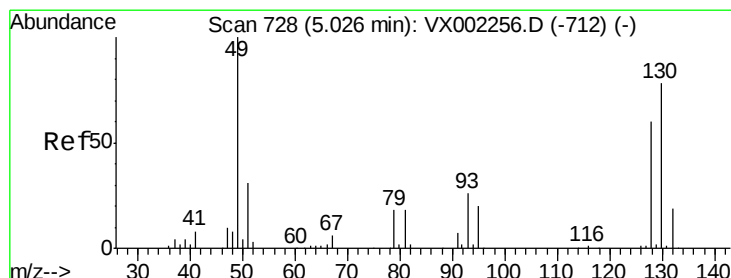
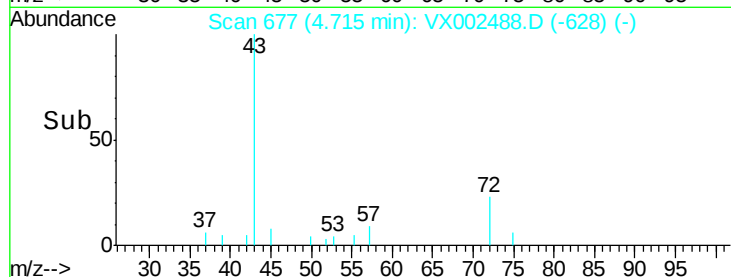
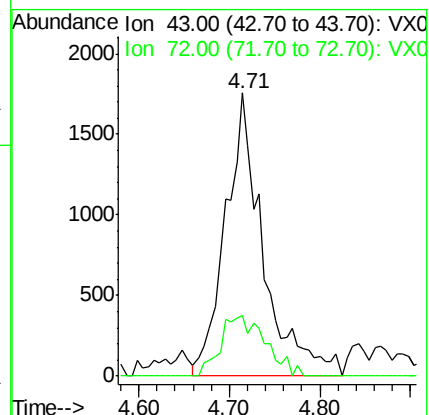
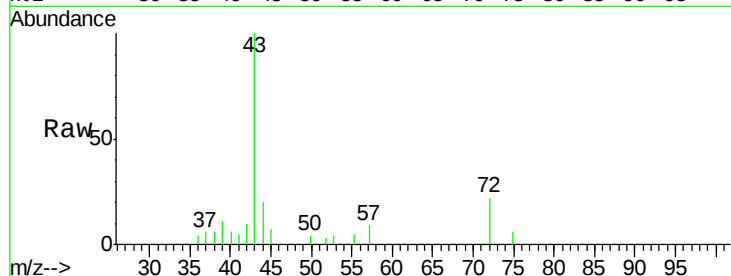
ClientSampled :

Tot Ion: 43 Resp: 5109

Ion Ratio Lower Upper

43 100

72 21.5 18.5 27.7



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

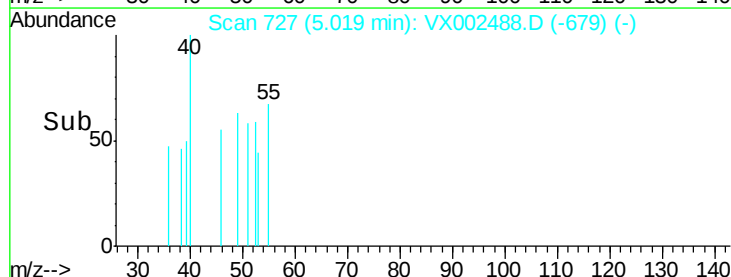
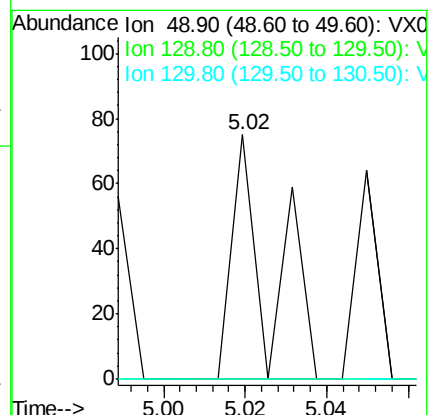
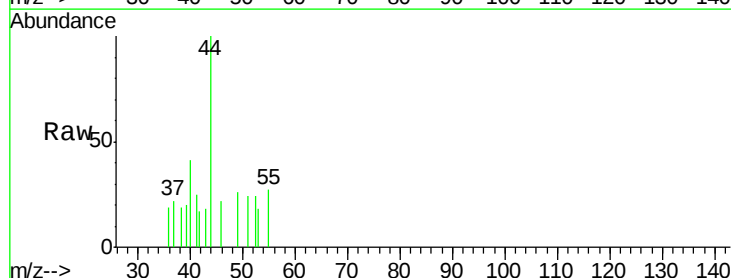
Tgt Ion: 49 Resp: 49

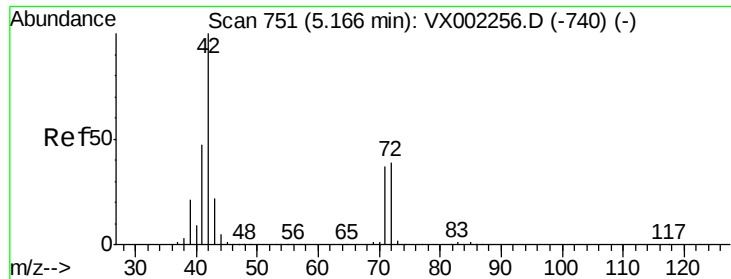
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#

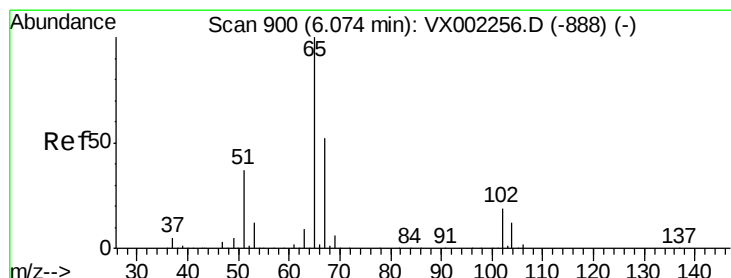
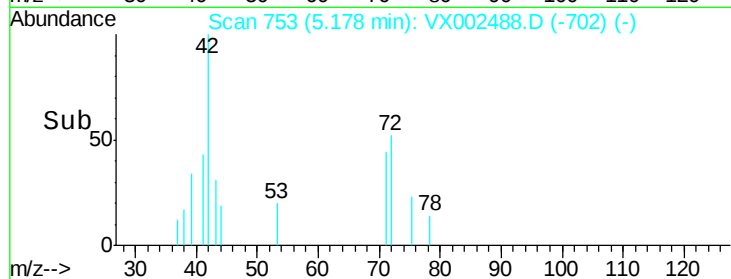
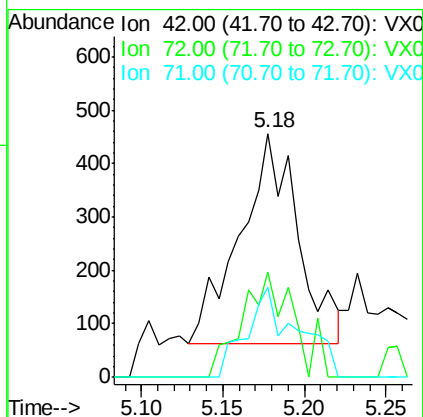
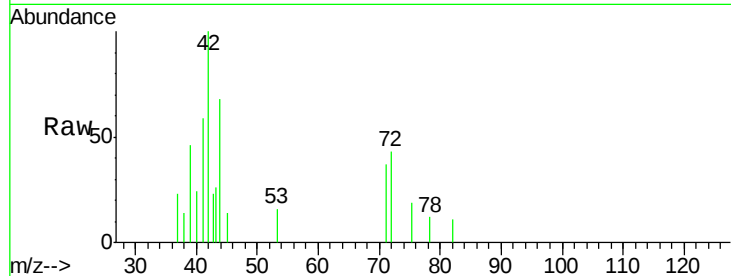




#29
Tetrahydrofuran
Concen: 0.72 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

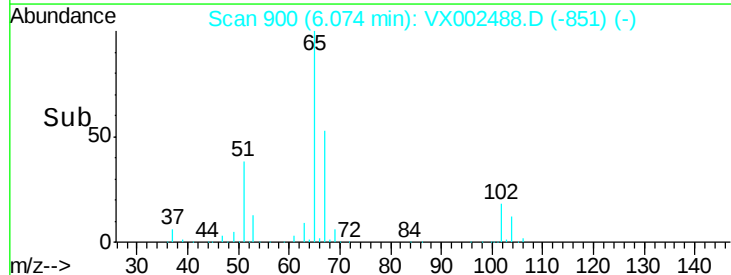
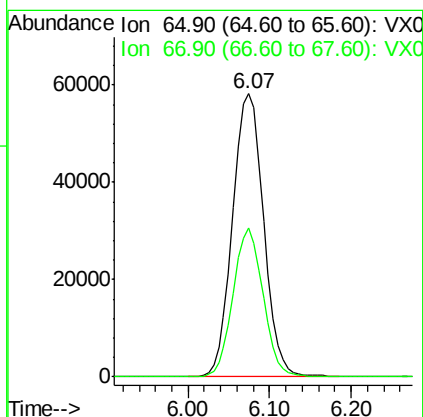
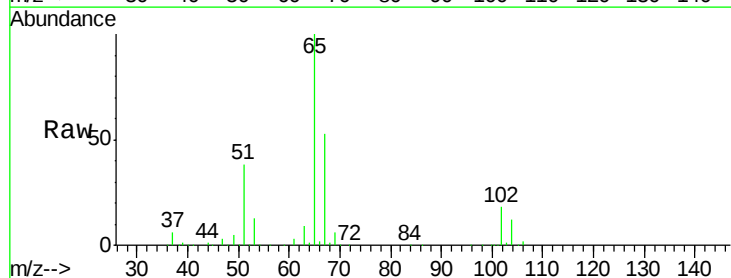
Instrument :
MSVOA_X
ClientSampled :

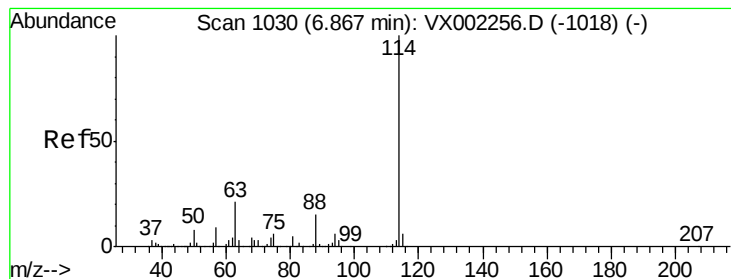
Tot Ion: 42 Resp: 970
Ion Ratio Lower Upper
42 100
72 40.3 32.0 48.0
71 37.9 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 50.43 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

Tgt Ion: 65 Resp: 153427
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: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :
MSVOA_X
ClientSampleId :

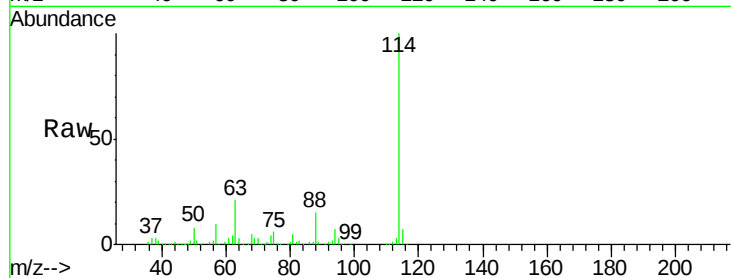
Tot Ion:114 Resp: 311663

Ion Ratio Lower Upper

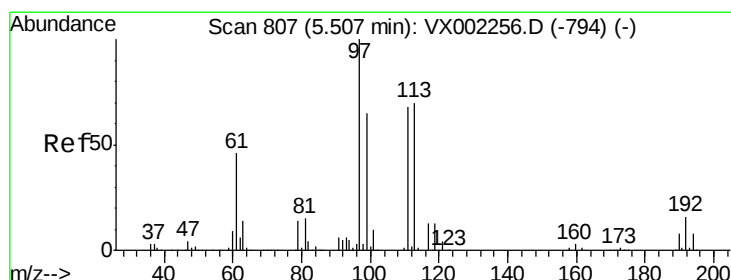
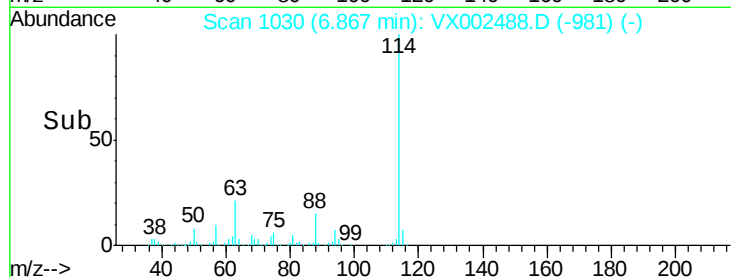
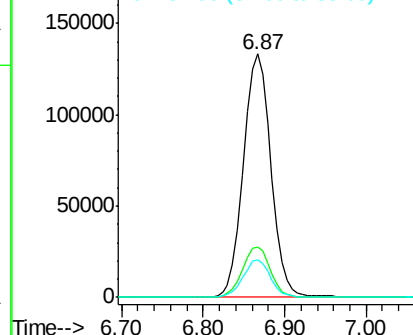
114 100

63 20.6 0.0 41.4

88 15.3 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: 47.08 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

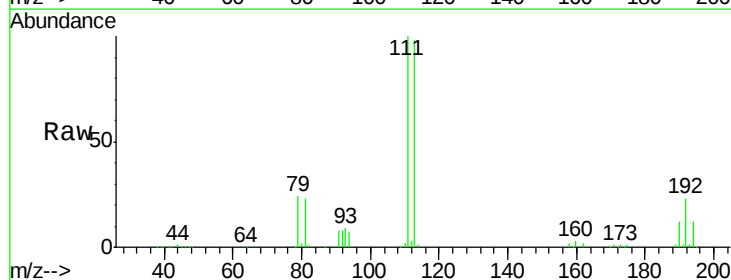
Tgt Ion:113 Resp: 115388

Ion Ratio Lower Upper

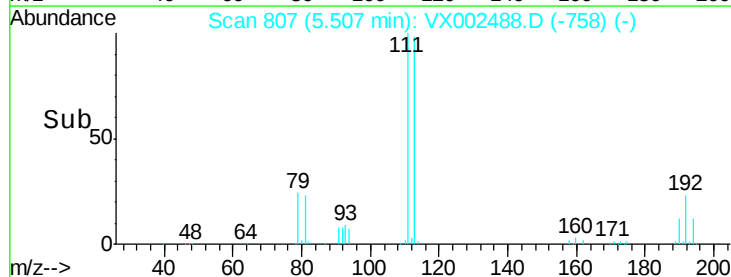
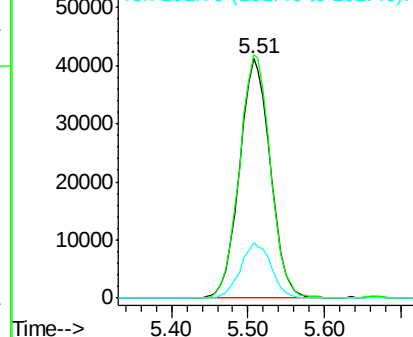
113 100

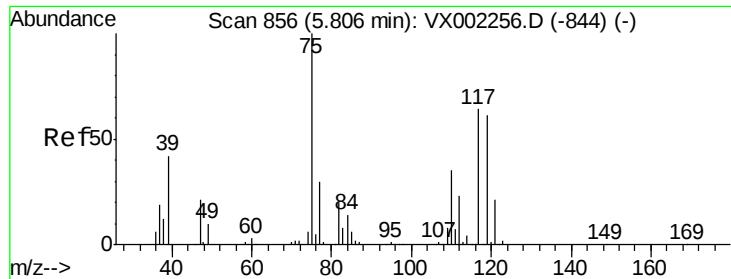
111 101.9 81.4 122.0

192 22.9 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

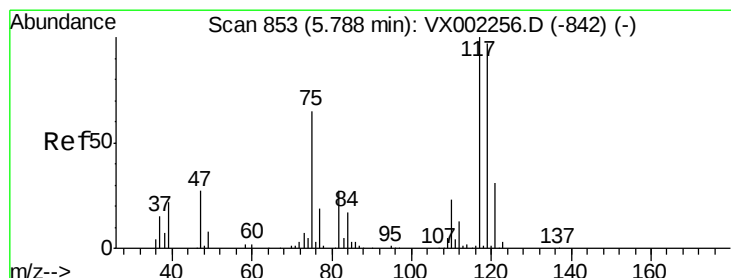
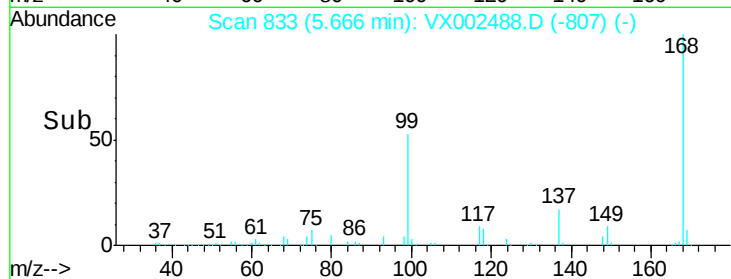
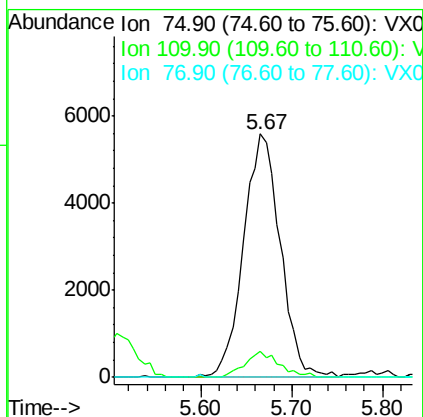
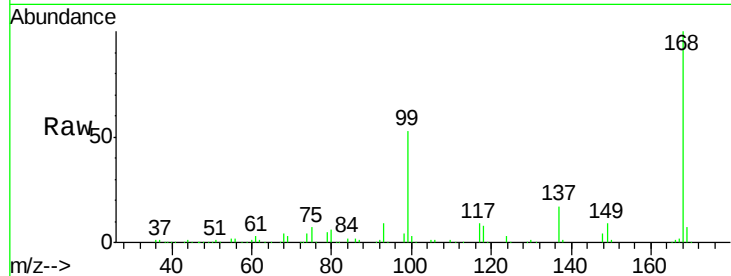




#36
 1,1-Dichloropropene
 Concen: 4.77 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002488.D
 Acq: 13 Jun 2018 01:44

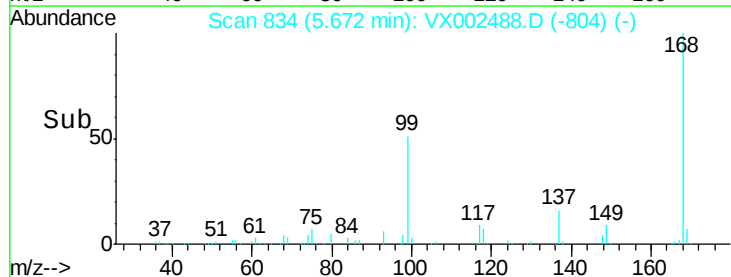
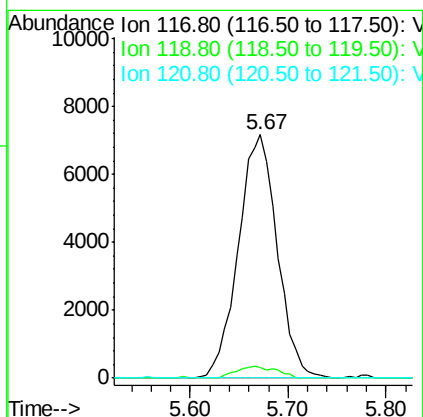
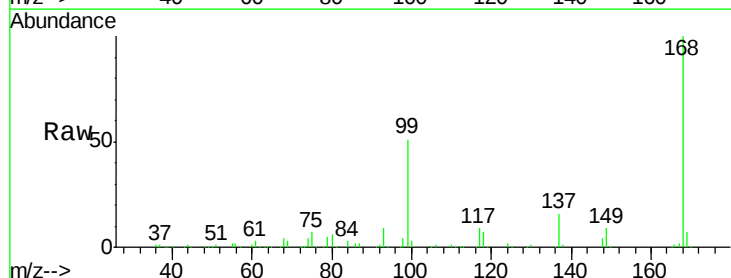
Instrument :
 MSVOA_X
 ClientSampleId :

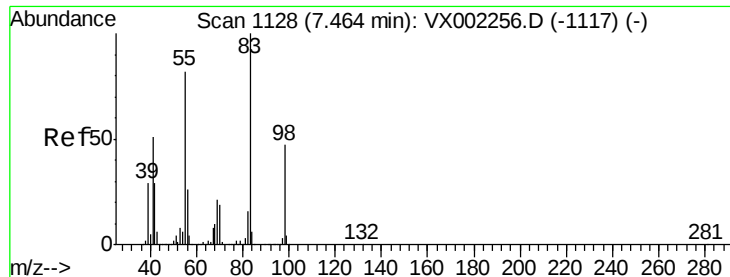
Tot Ion	75	Resp	15641
Ion Ratio	100	Lower	Upper
75	100		
110	9.9	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.78 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002488.D
 Acq: 13 Jun 2018 01:44

Tgt Ion	117	Resp	19805
Ion Ratio	100	Lower	Upper
117	100		
119	4.3	77.4	116.0#
121	0.0	24.4	36.6#

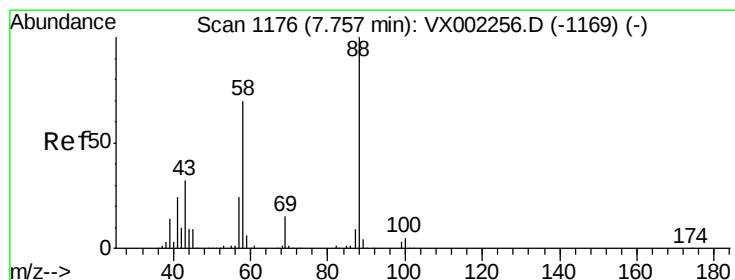
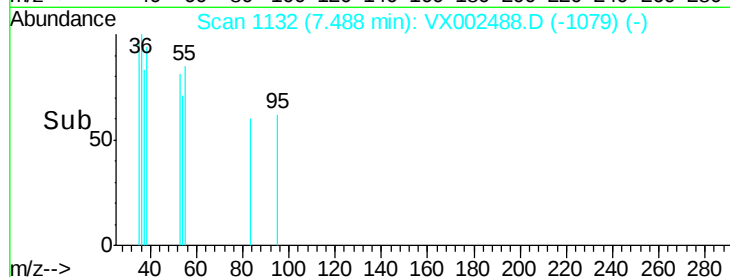
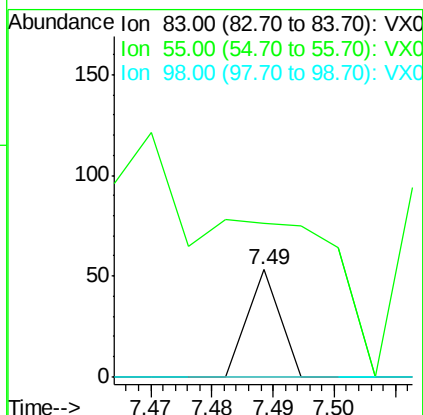
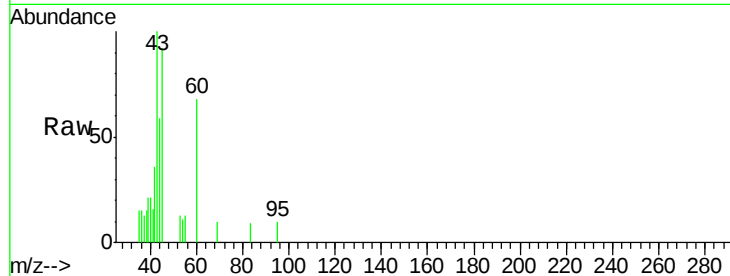




#39
Methylcyclohexane
Concen: 0.27 ug/l
RT: 7.49 min Scan# 1132
Delta R.T. 0.02 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

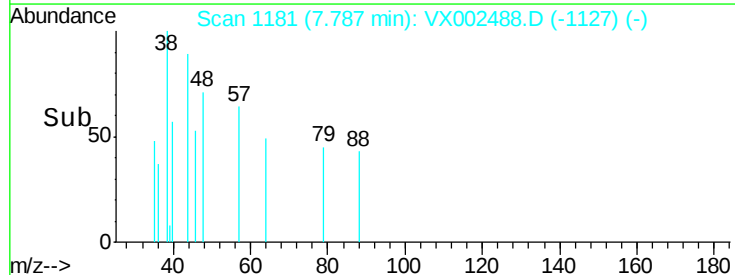
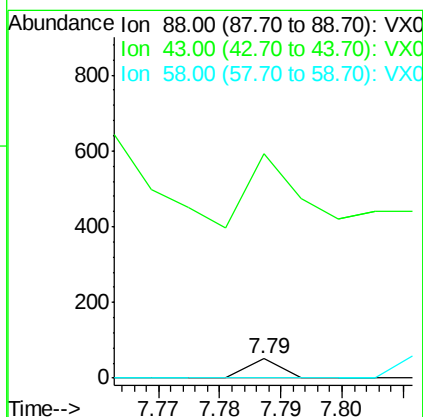
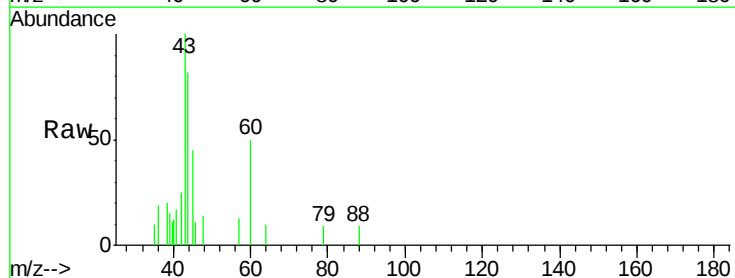
Instrument :
MSVOA_X
ClientSampleId :

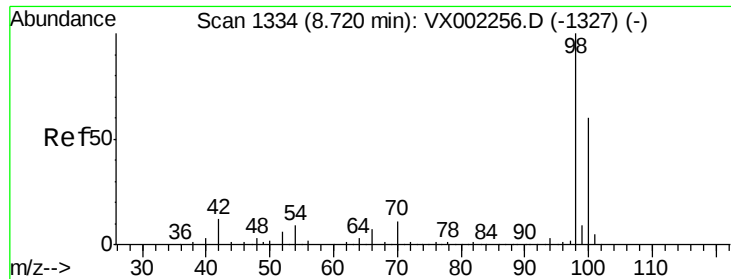
Tot Ion: 83 Resp: 19
Ion Ratio Lower Upper
83 100
55 22.6 65.4 98.0#
98 0.0 37.4 56.0#



#49
1,4-Dioxane
Concen: 0.30 ug/l
RT: 7.79 min Scan# 1181
Delta R.T. 0.03 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

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

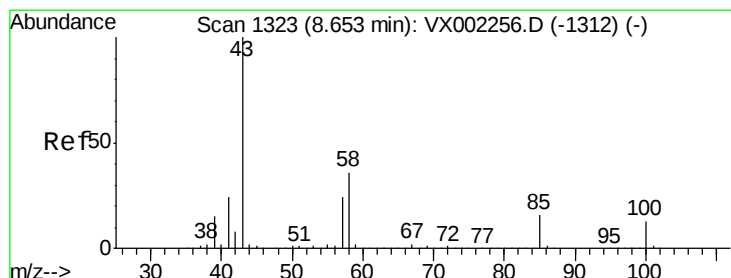
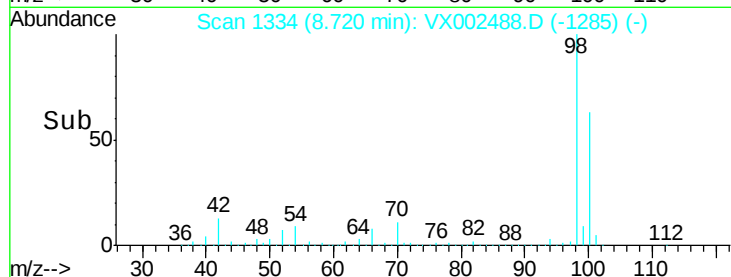
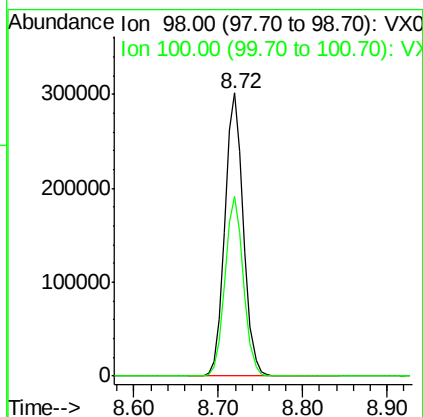
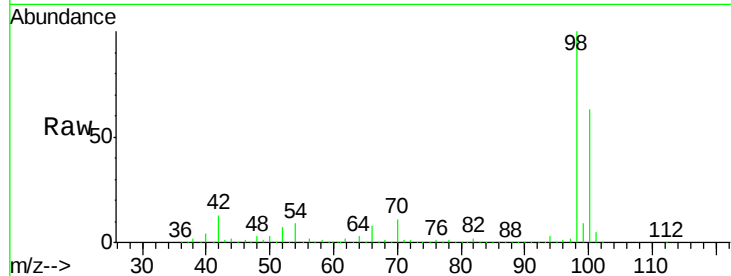




#50
Toluene-d8
Concen: 48.66 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

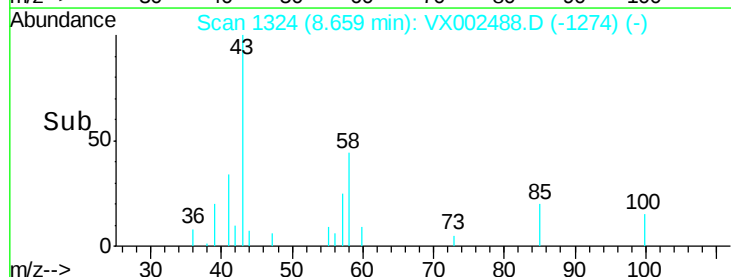
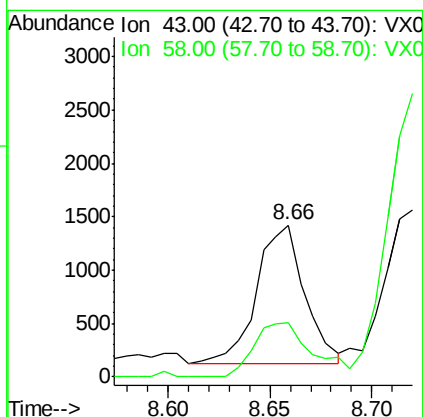
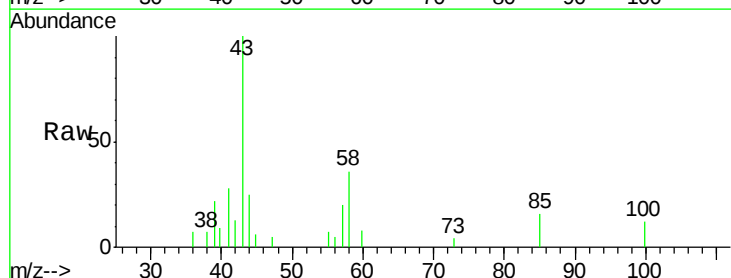
Instrument :
MSVOA_X
ClientSampleId :

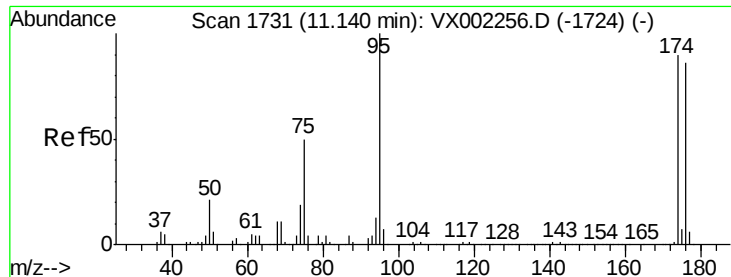
Tot Ion: 98 Resp: 457155
Ion Ratio Lower Upper
98 100
100 63.0 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.51 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

Tgt Ion: 43 Resp: 2145
Ion Ratio Lower Upper
43 100
58 46.9 28.6 42.8#

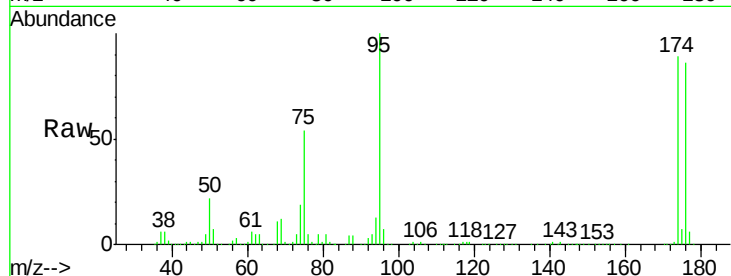




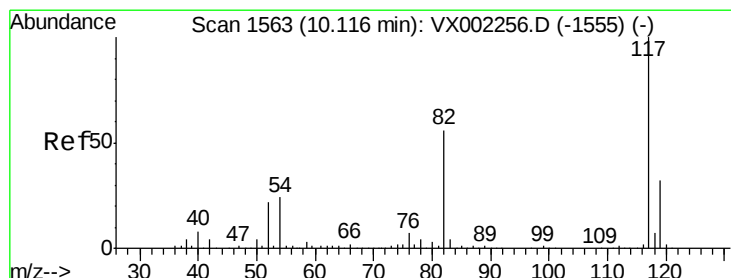
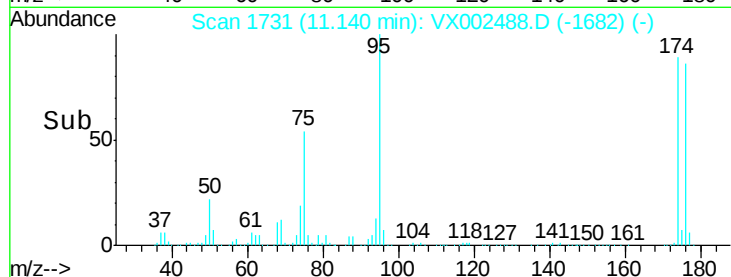
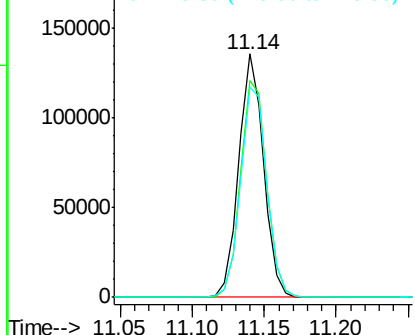
#62
4-Bromofluorobenzene
Concen: 44.85 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 162473
Ion Ratio Lower Upper
95 100
174 93.3 0.0 187.4
176 91.1 0.0 181.0

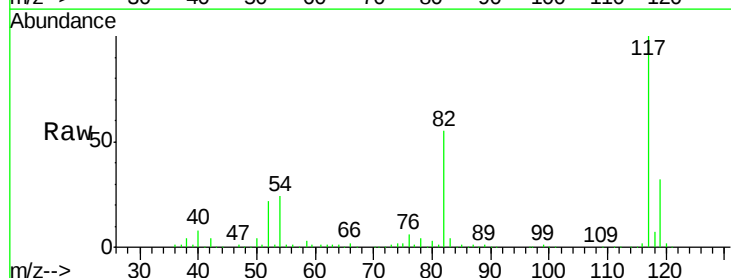


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

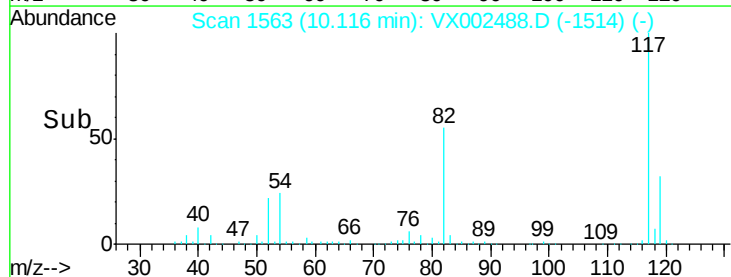
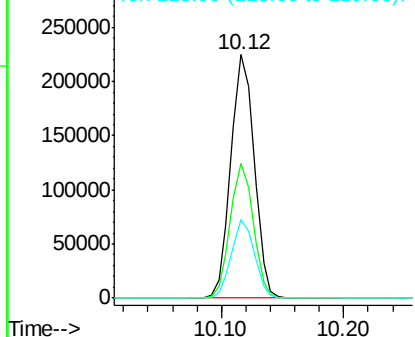


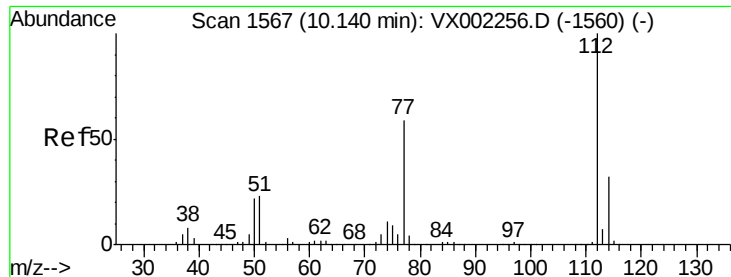
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002488.D
Acq: 13 Jun 2018 01:44

Tgt Ion: 117 Resp: 297216
Ion Ratio Lower Upper
117 100
82 55.2 45.0 67.4
119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 0.28 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :

MSVOA_X

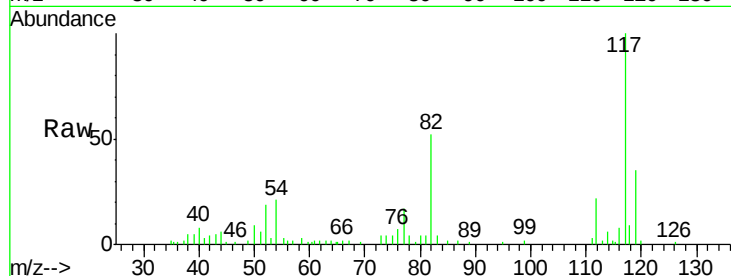
ClientSampleId :

Tot Ion:112 Resp: 2097

Ion Ratio Lower Upper

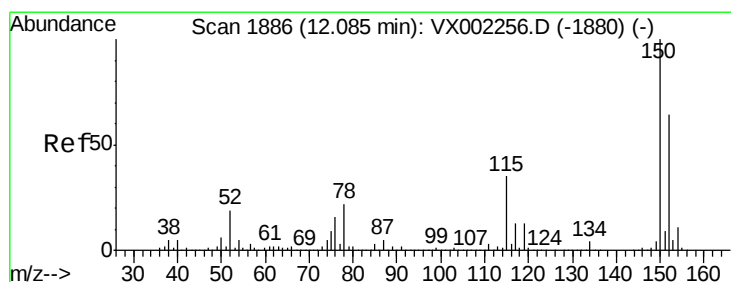
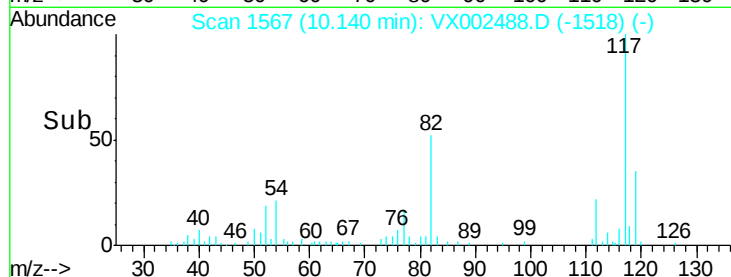
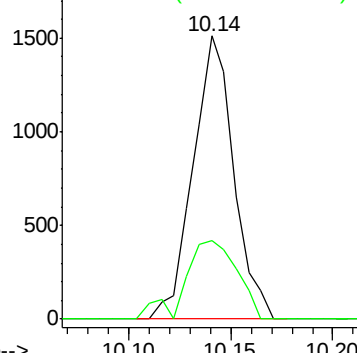
112 100

114 27.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

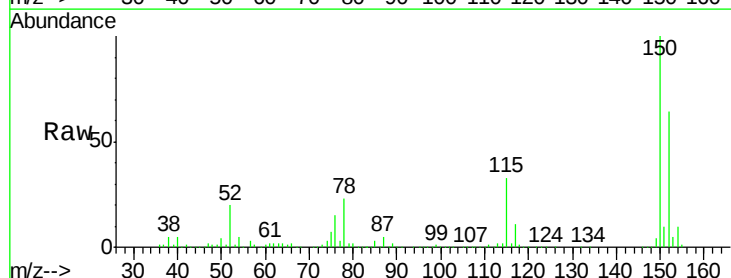
Tgt Ion:152 Resp: 169879

Ion Ratio Lower Upper

152 100

115 54.7 40.1 120.2

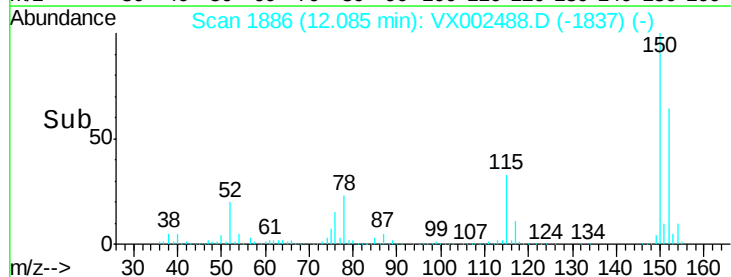
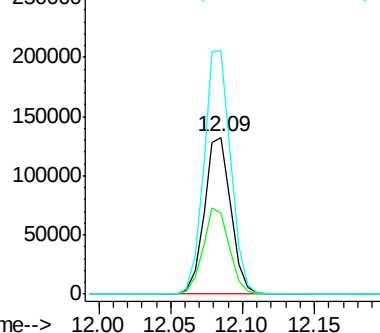
150 158.2 0.0 347.2

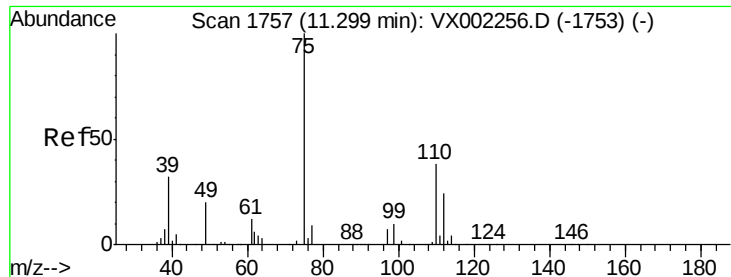


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Instrument :

MSVOA_X

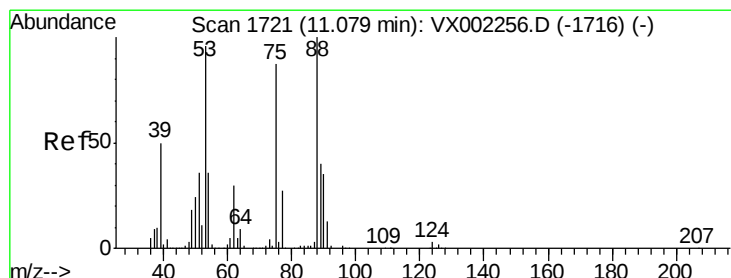
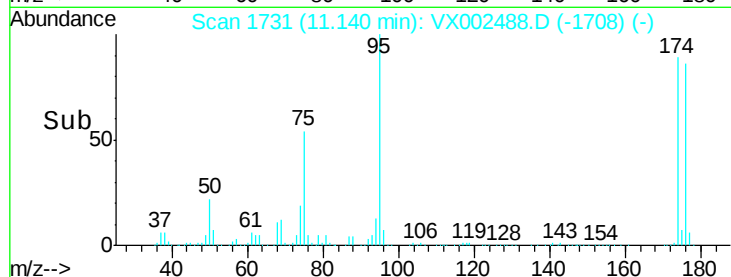
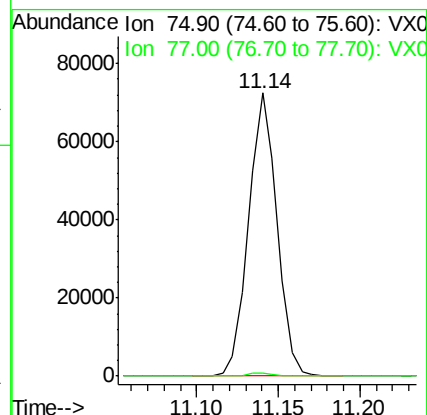
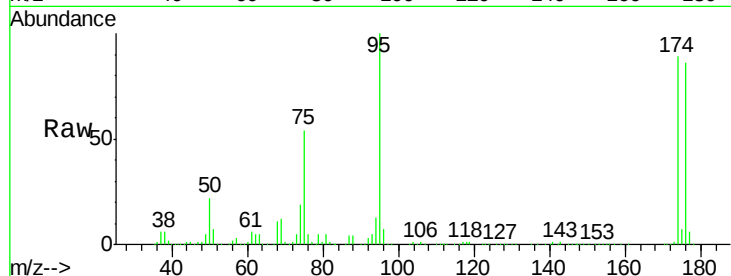
ClientSampled :

Tot Ion: 75 Resp: 88019

Ion Ratio Lower Upper

75 100

77 1.1 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002488.D

Acq: 13 Jun 2018 01:44

Tgt Ion: 75 Resp: 88019

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

