

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002576.D
 Acq On : 15 Jun 2018 02:56
 Operator : JC/MD
 Sample : PB110227ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 03:23:39 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	225537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	328789	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	307952	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	175167	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	158410	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
35) Dibromofluoromethane	5.51	113	117778	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	
50) Toluene-d8	8.72	98	471237	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
62) 4-Bromofluorobenzene	11.14	95	165454	43.29	ug/l	0.00
Spiked Amount			Recovery	=	86.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	448	Below Cal	#	73
5) Bromomethane	1.66	94	1127	Below Cal		93
8) Diethyl Ether	2.03	74	19	Below Cal		81
10) Methyl Iodide	2.52	142	1068	0.31	ug/l	# 83
11) Tert butyl alcohol	3.07	59	325	Below Cal	#	60
13) Acrolein	2.29	56	79	Below Cal	#	14
15) Acrylonitrile	3.15	53	247	Below Cal	#	56
16) Acetone	2.45	43	25171	Below Cal		99
18) Methyl Acetate	2.78	43	22805	4.61	ug/l	97
19) Methyl tert-butyl Ether	3.22	73	31	Below Cal	#	54
20) Methylene Chloride	2.86	84	6346	Below Cal		87
22) Diisopropyl ether	3.80	45	291	Below Cal	#	72
25) 2-Butanone	4.72	43	6581	2.98	ug/l	94
28) Bromochloromethane	5.03	49	27	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	1444	1.01	ug/l	# 75
31) Cyclohexane	5.67	56	5052	1.24	ug/l	# 19
36) 1,1-Dichloropropene	5.67	75	15864	4.59	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	20869	5.77	ug/l	# 15
39) Methylcyclohexane	7.46	83	100	0.29	ug/l	# 25
51) 4-Methyl-2-Pentanone	8.65	43	5811	1.32	ug/l	98
65) Chlorobenzene	10.14	112	3211	0.42	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	90308	23.50	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	90308	82.36	ug/l	# 6

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002576.D

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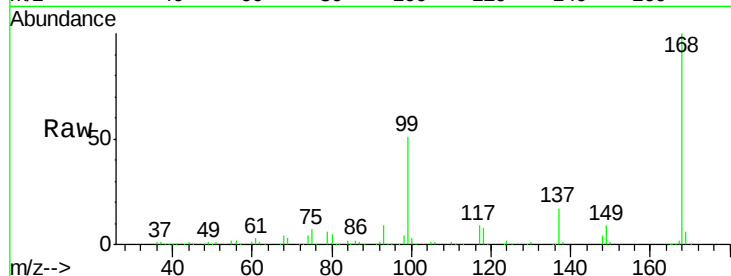
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 22537

Ion Ratio Lower Upper

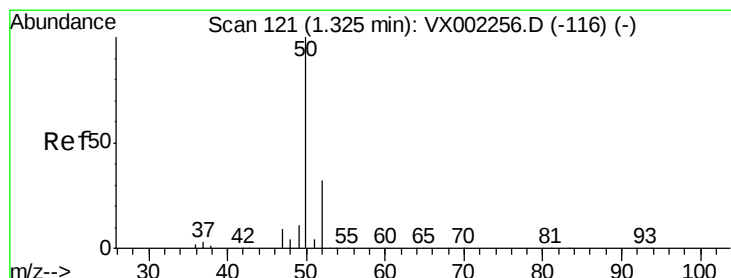
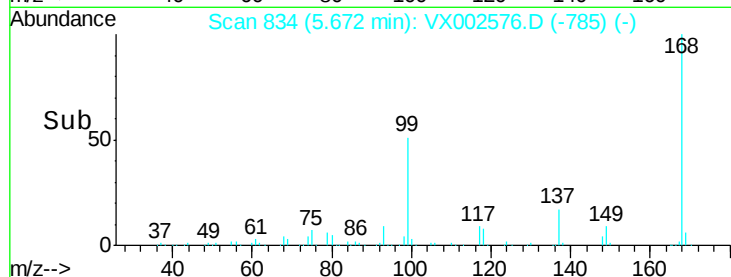
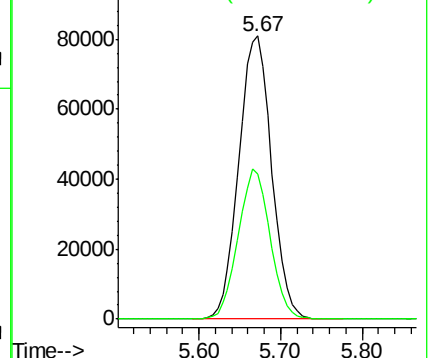
168 100

99 51.4 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: VX002576.D

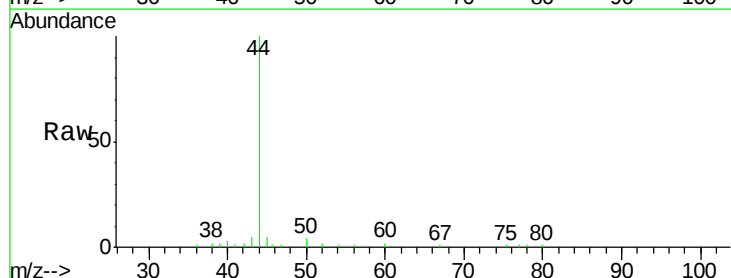
Acq: 15 Jun 2018 02:56

Tgt Ion: 50 Resp: 448

Ion Ratio Lower Upper

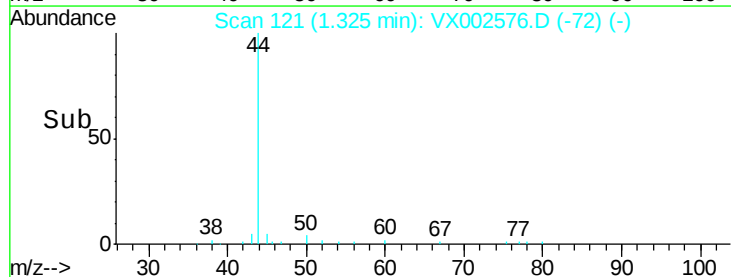
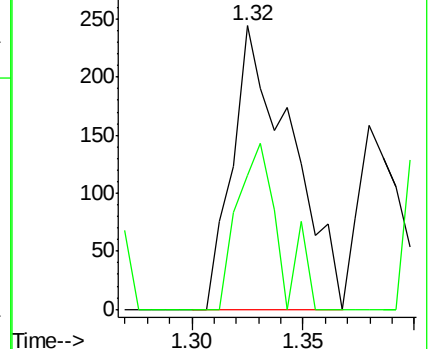
50 100

52 47.1 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: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :

MSVOA_X

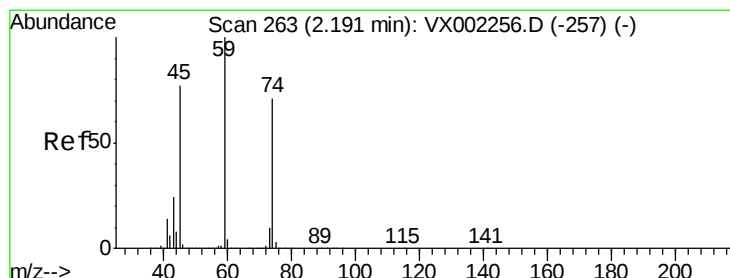
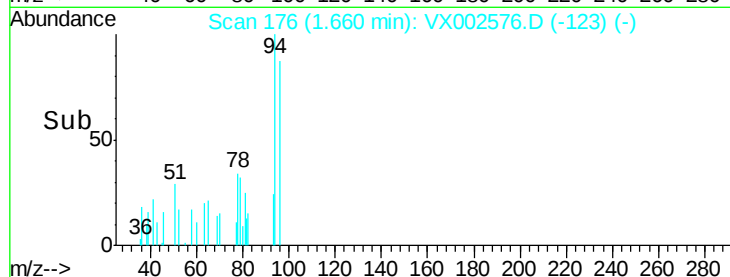
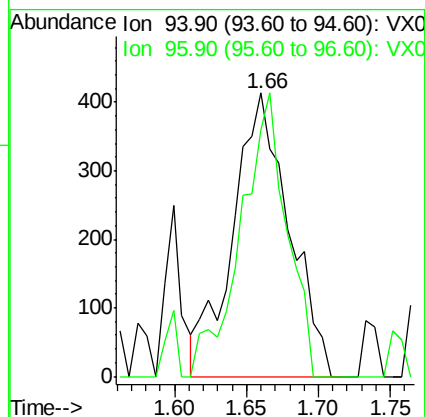
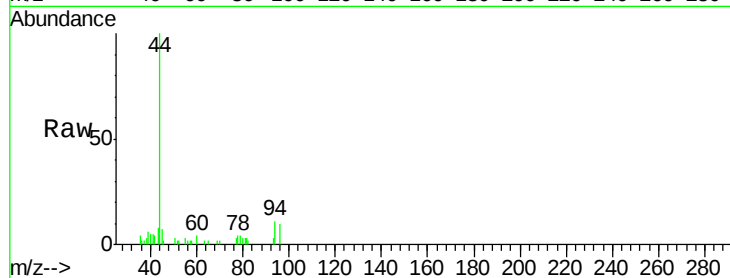
ClientSampleId :

Tot Ion: 94 Resp: 1127

Ion Ratio Lower Upper

94 100

96 87.2 74.9 112.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.03 min Scan# 236

Delta R.T. -0.16 min

Lab File: VX002576.D

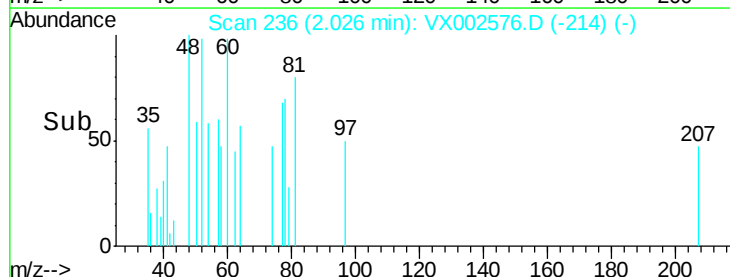
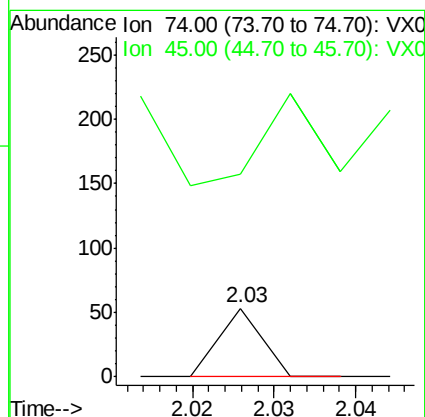
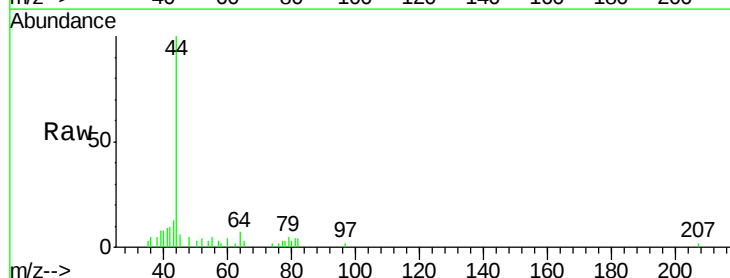
Acq: 15 Jun 2018 02:56

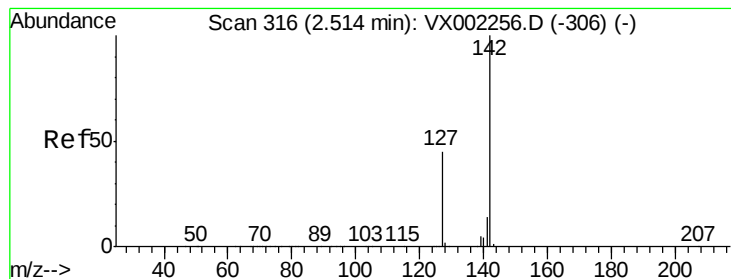
Tgt Ion: 74 Resp: 19

Ion Ratio Lower Upper

74 100

45 126.3 53.1 159.4





#10

Methyl Iodide

Concen: 0.31 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :

MSVOA_X

ClientSampled :

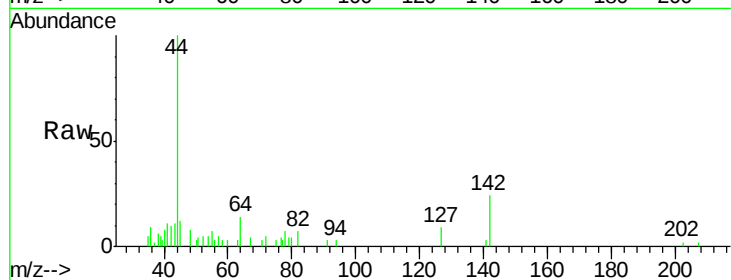
Tot Ion:142 Resp: 1068

Ion Ratio Lower Upper

142 100

127 31.7 36.6 55.0#

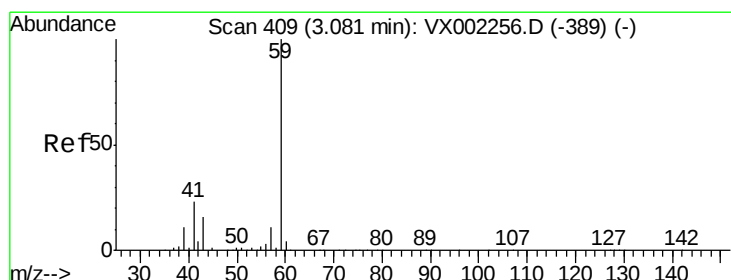
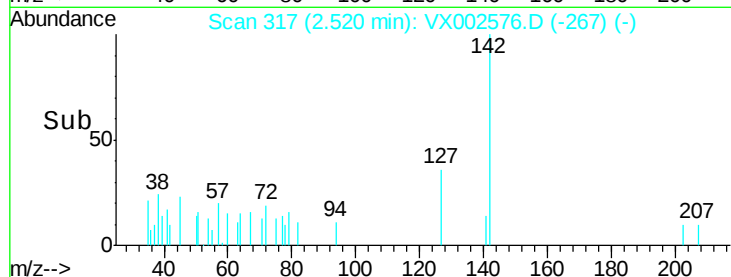
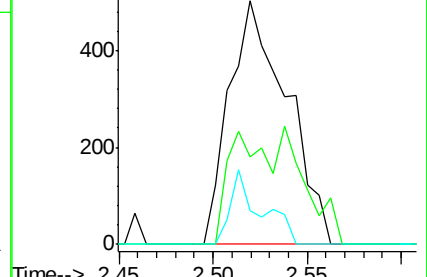
141 15.9 11.3 16.9



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: VX002576.D

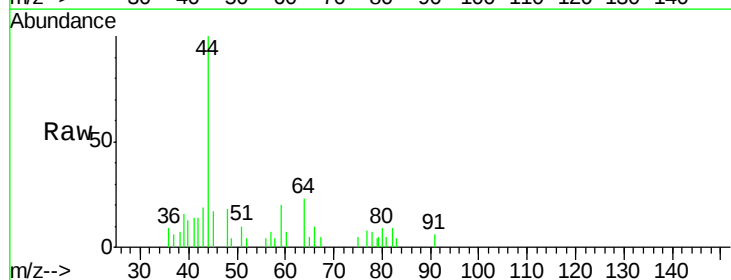
Acq: 15 Jun 2018 02:56

Tgt Ion: 59 Resp: 325

Ion Ratio Lower Upper

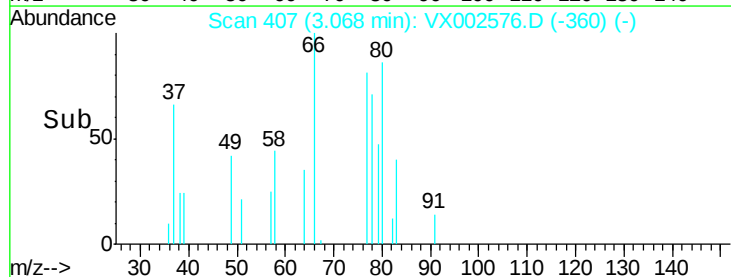
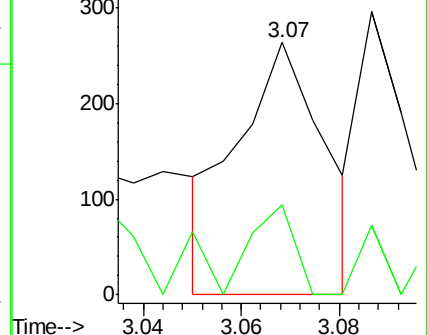
59 100

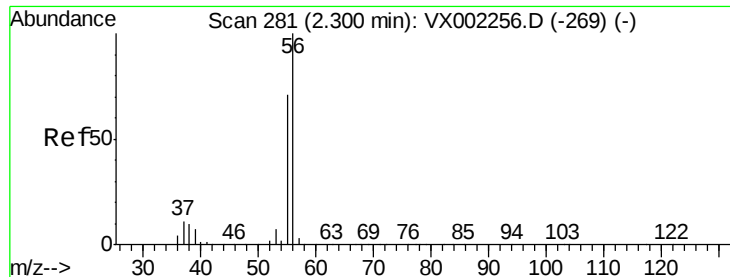
57 25.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :

MSVOA_X

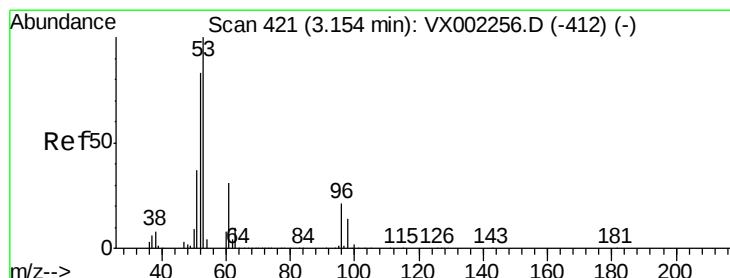
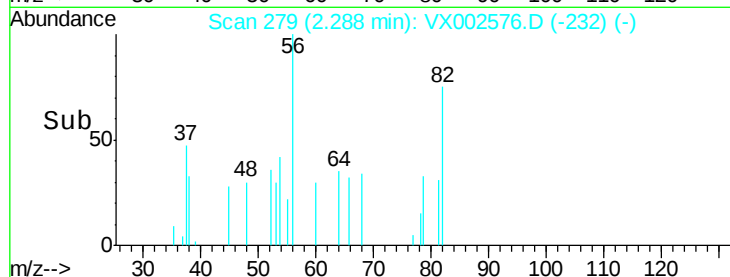
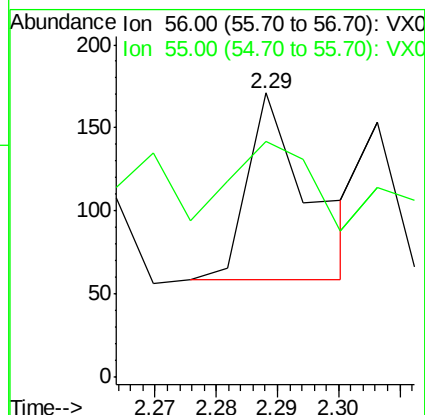
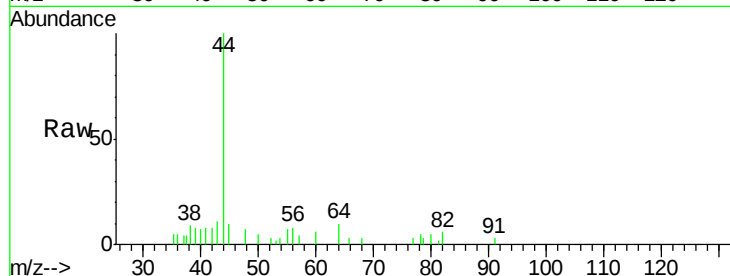
ClientSampled :

Tot Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

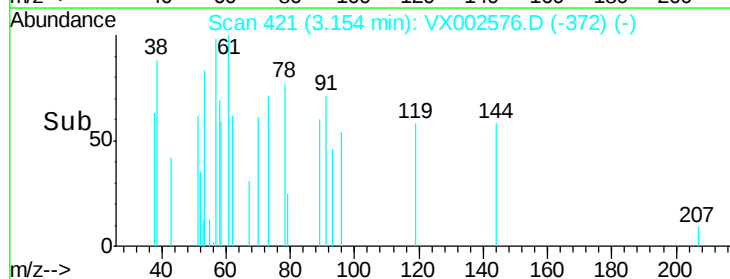
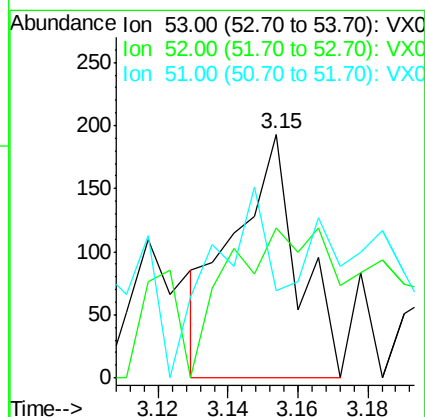
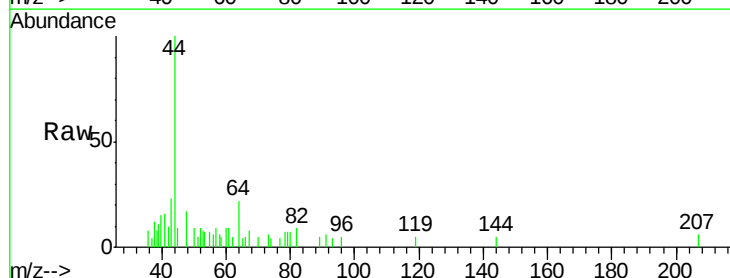
Tgt Ion: 53 Resp: 247

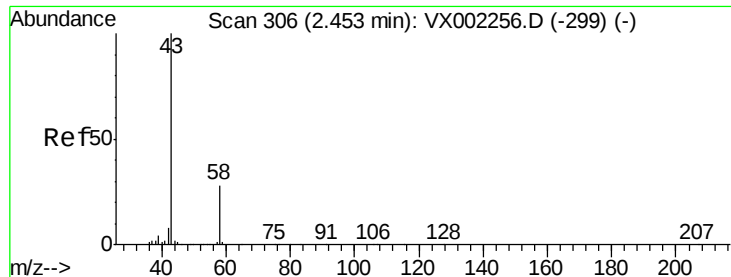
Ion Ratio Lower Upper

53 100

52 110.9 66.7 100.1#

51 82.2 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :

MSVOA_X

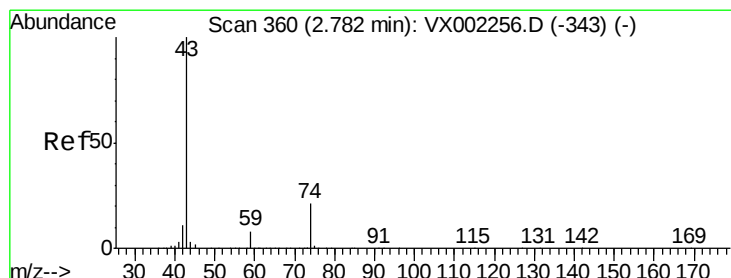
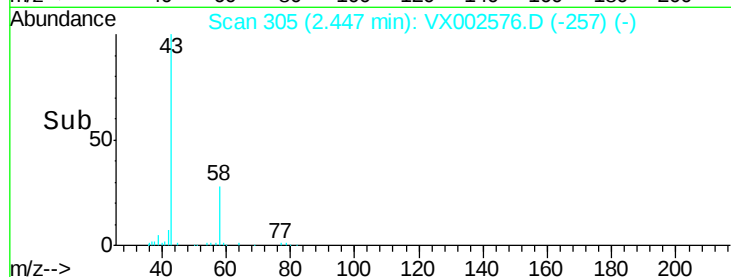
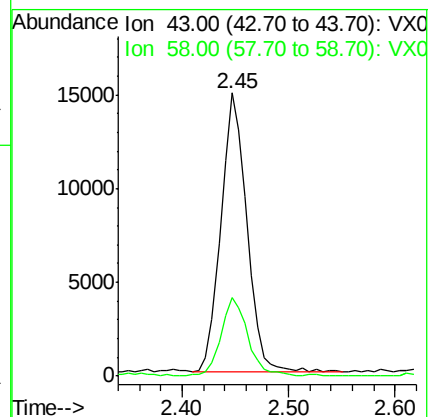
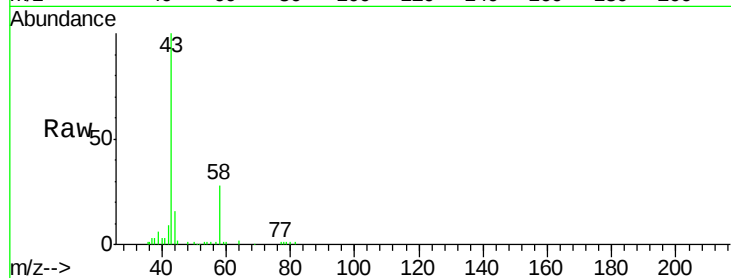
ClientSampleId :

Tot Ion: 43 Resp: 25171

Ion Ratio Lower Upper

43 100

58 27.9 22.1 33.1



#18

Methyl Acetate

Concen: 4.61 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002576.D

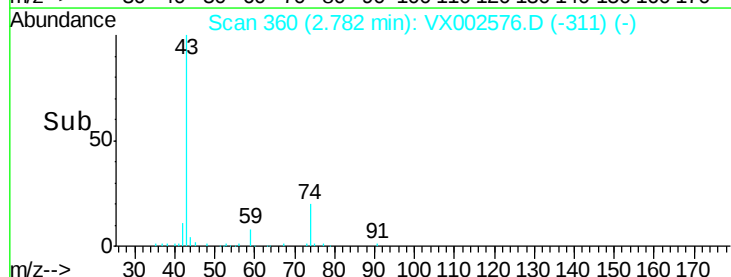
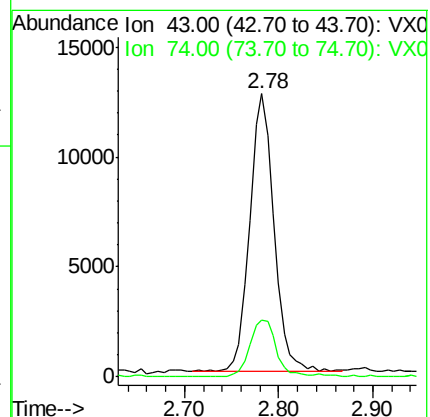
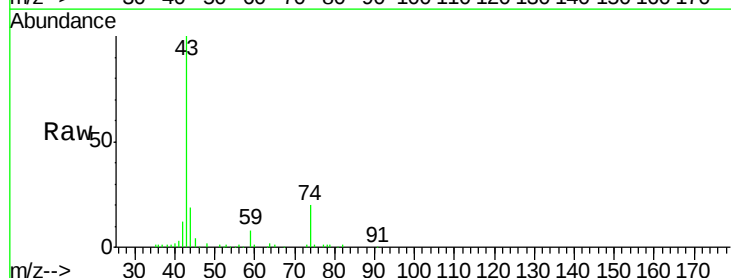
Acq: 15 Jun 2018 02:56

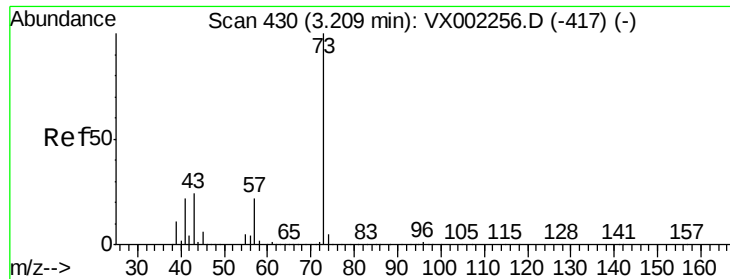
Tgt Ion: 43 Resp: 22805

Ion Ratio Lower Upper

43 100

74 22.4 16.7 25.1

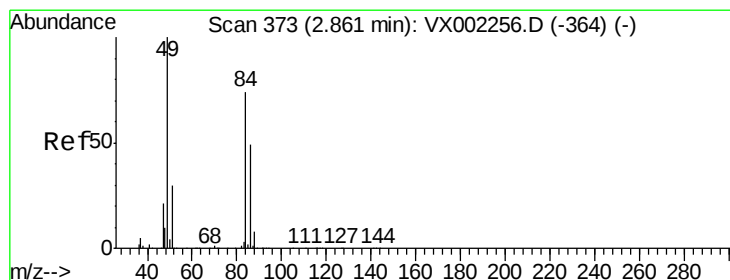
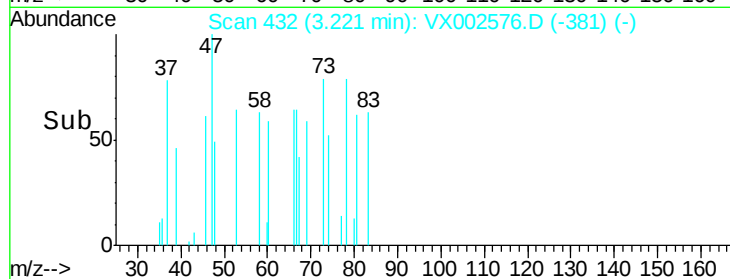
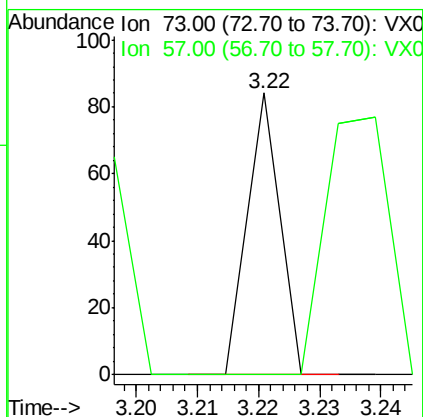
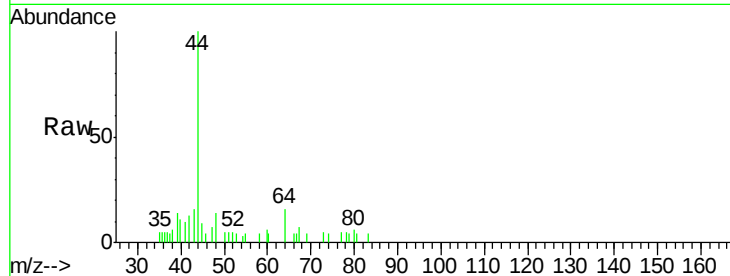




#19
Methvl tert-butvl Ether
Concen: Below Cal
RT: 3.22 min Scan# 432
Delta R.T. 0.01 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

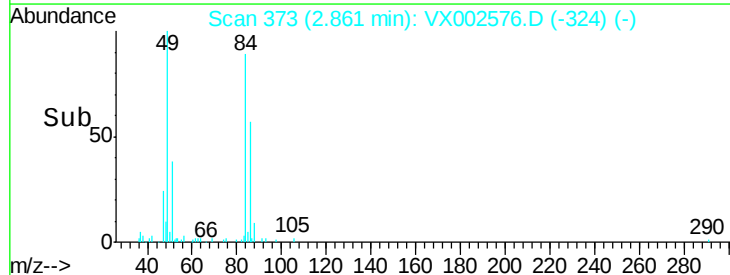
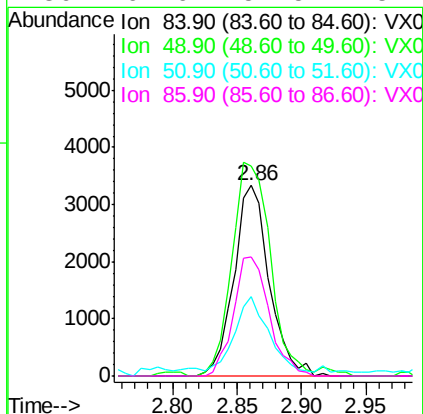
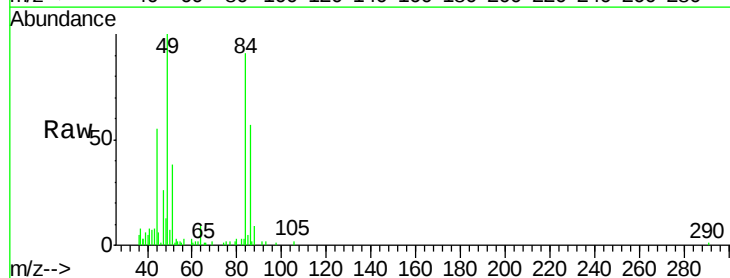
Instrument :
MSVOA_X
ClientSampleId :

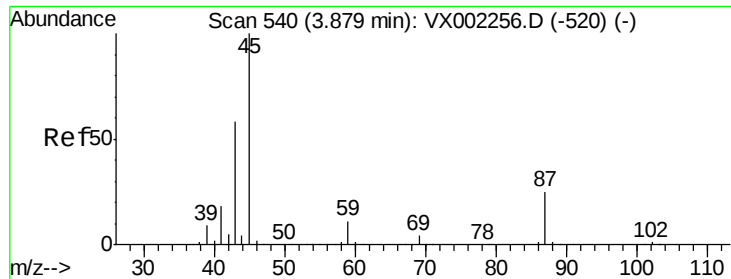
Tot Ion: 73 Resp: 31
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

Tgt Ion: 84 Resp: 6346
Ion Ratio Lower Upper
84 100
49 110.4 107.8 161.6
51 39.4 32.8 49.2
86 62.6 52.5 78.7



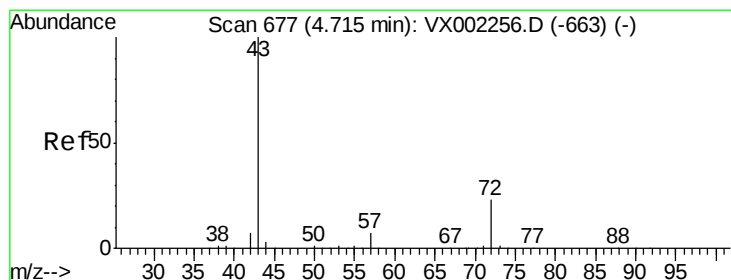
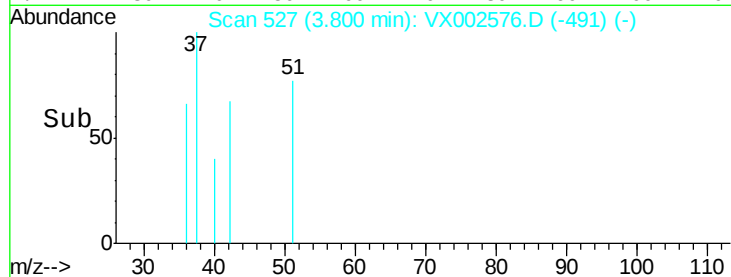
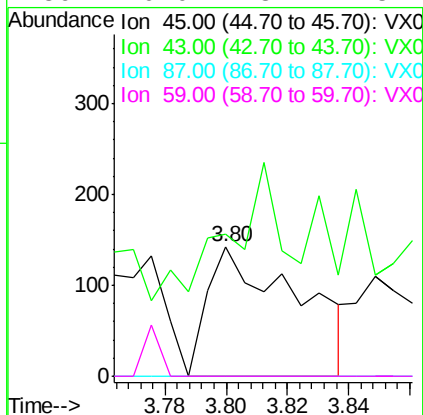
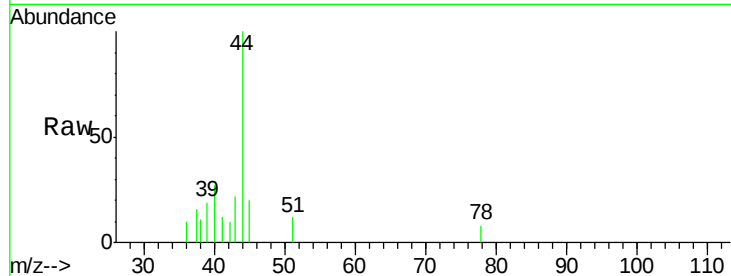


#22

Diisopropyl ether
 Concen: Below Cal
 RT: 3.80 min Scan# 527
 Delta R.T. -0.08 min
 Lab File: VX002576.D
 Acq: 15 Jun 2018 02:56

Instrument :
 MSVOA_X
 ClientSampled :

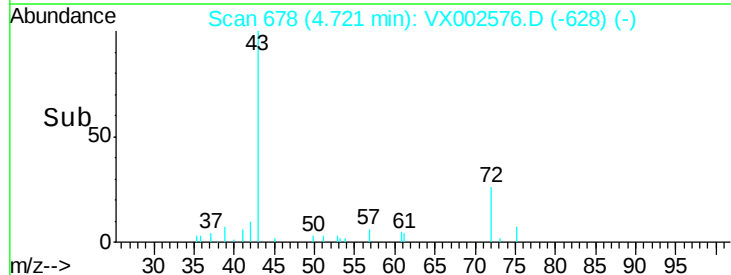
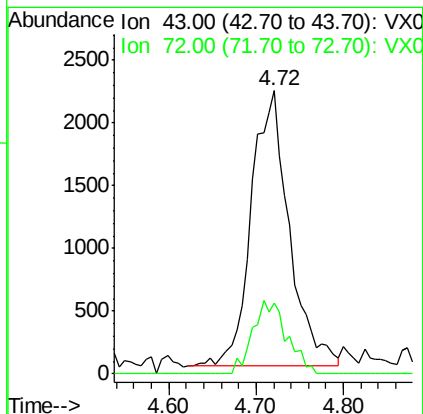
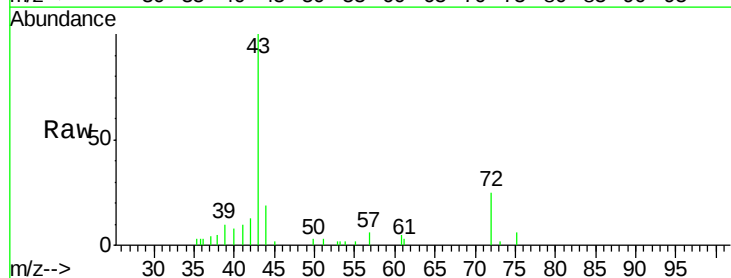
Tot Ion:	45	Resp:	291
Ion	Ratio	Lower	Upper
45	100		
43	44.8	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

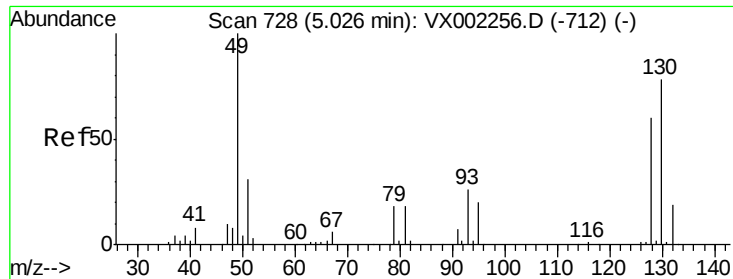


#25

2-Butanone
 Concen: 2.98 ug/l
 RT: 4.72 min Scan# 678
 Delta R.T. 0.01 min
 Lab File: VX002576.D
 Acq: 15 Jun 2018 02:56

Tgt Ion:	43	Resp:	6581
Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

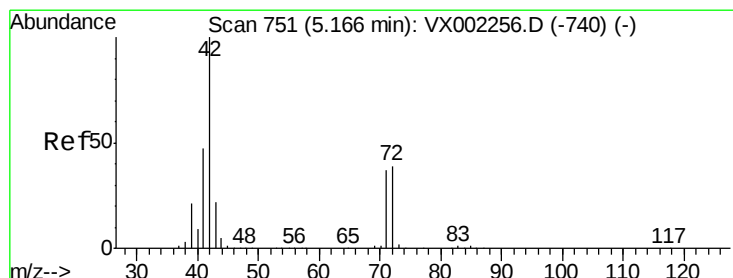
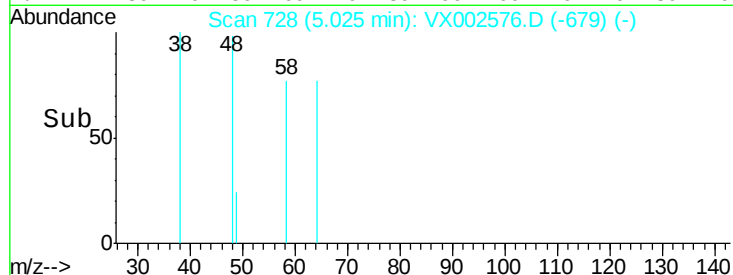
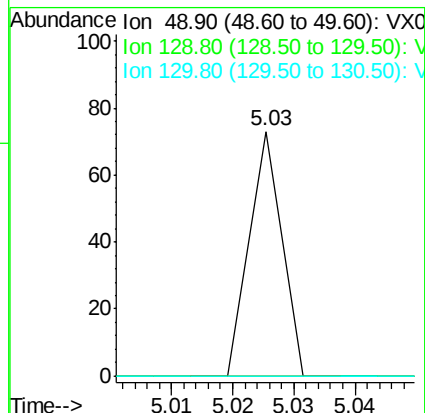
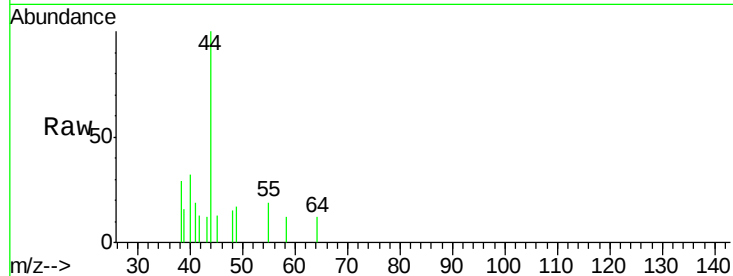
Delta R.T. 0.00 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 27
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 1.01 ug/l

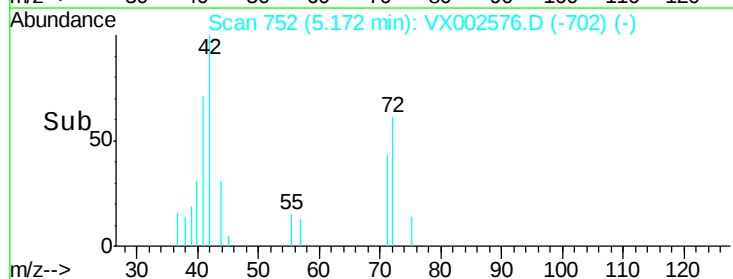
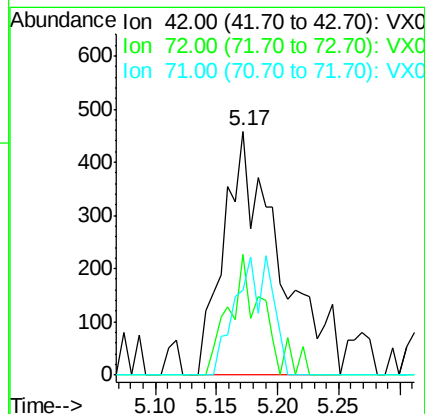
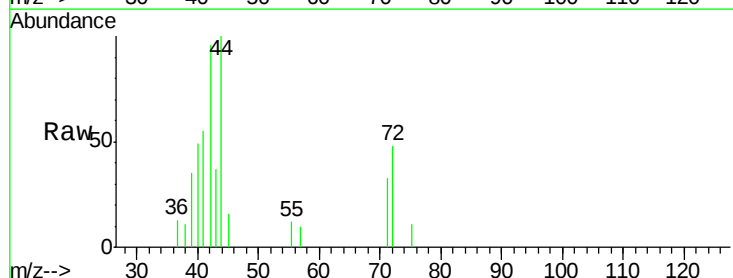
RT: 5.17 min Scan# 752

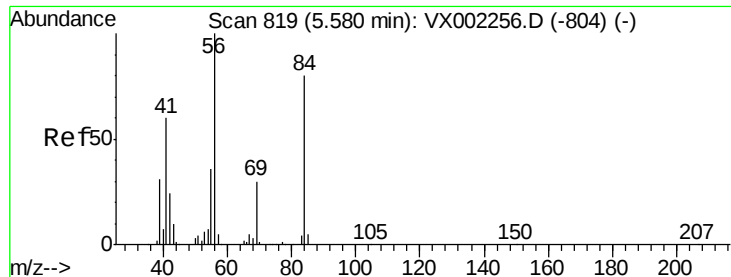
Delta R.T. 0.01 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Tgt Ion: 42 Resp: 1444
Ion Ratio Lower Upper
42 100
72 27.5 32.0 48.0#
71 20.2 30.1 45.1#

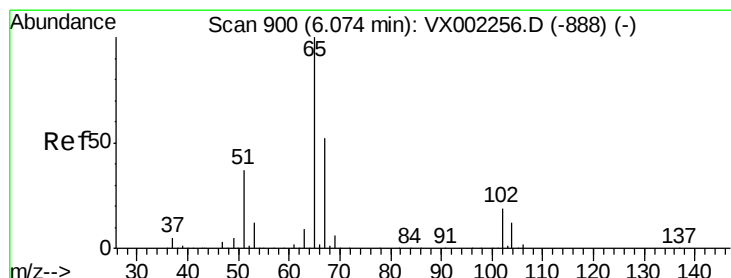
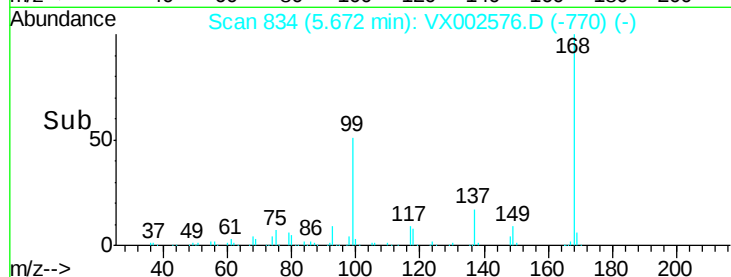
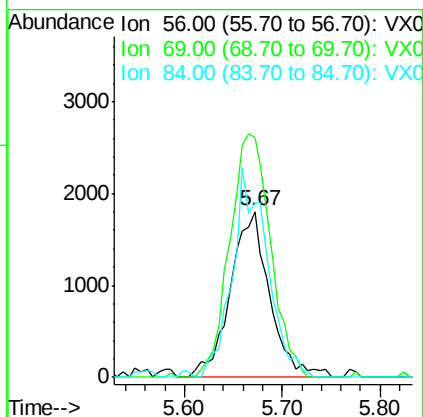
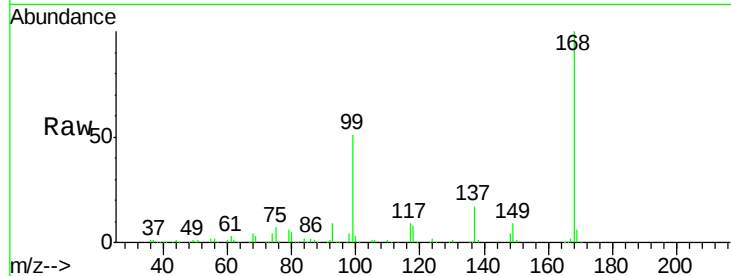




#31
Cyclohexane
Concen: 1.24 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

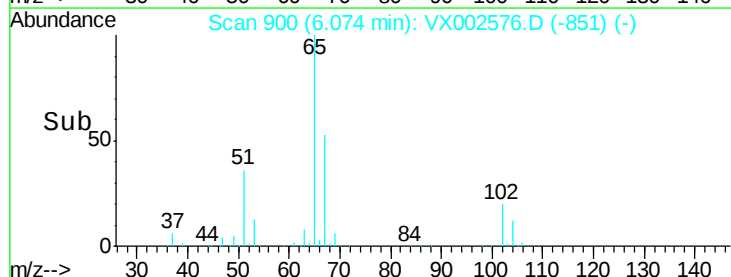
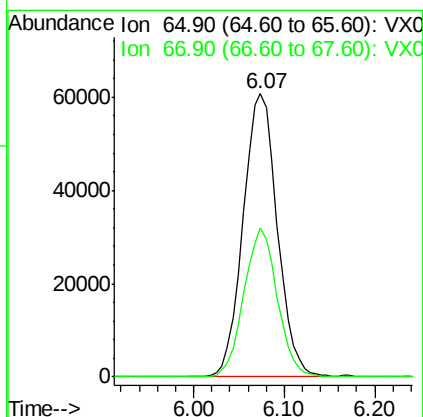
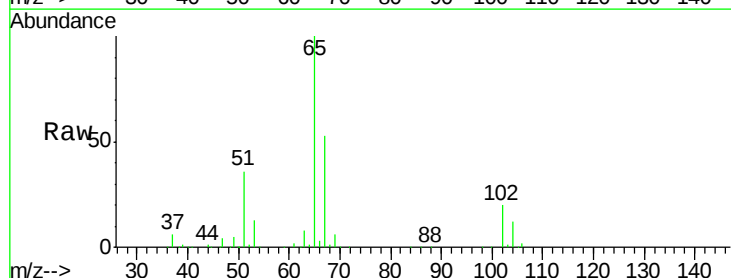
Instrument :
MSVOA_X
ClientSampleId :

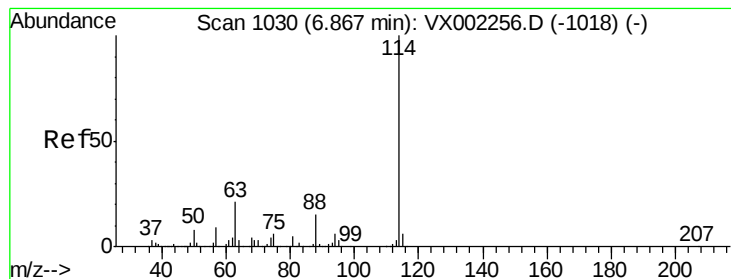
Tot Ion: 56 Resp: 5052
Ion Ratio Lower Upper
56 100
69 144.3 23.7 35.5#
84 108.5 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 49.05 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

Tgt Ion: 65 Resp: 158410
Ion Ratio Lower Upper
65 100
67 51.4 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: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :
MSVOA_X
ClientSampleId :

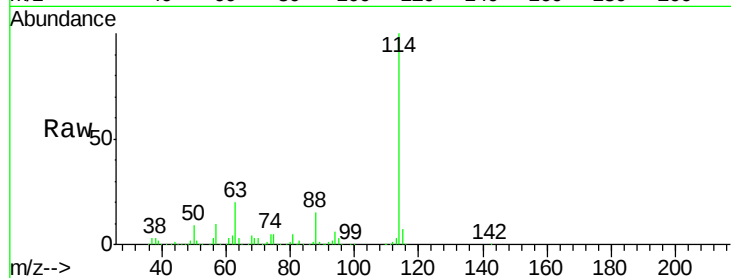
Tot Ion:114 Resp: 328789

Ion Ratio Lower Upper

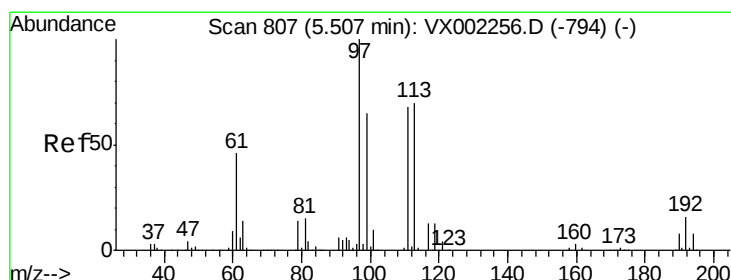
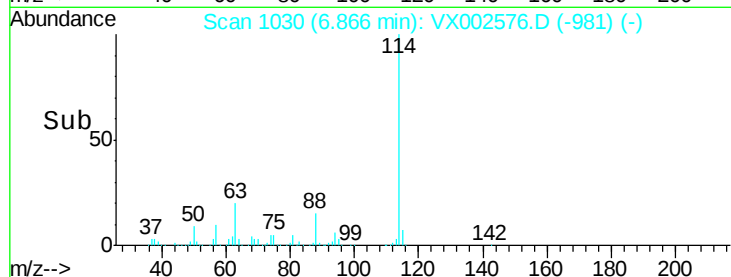
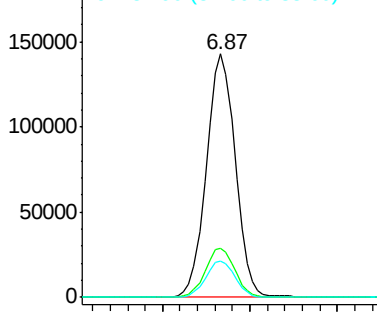
114 100

63 20.4 0.0 41.4

88 14.9 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: 45.55 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

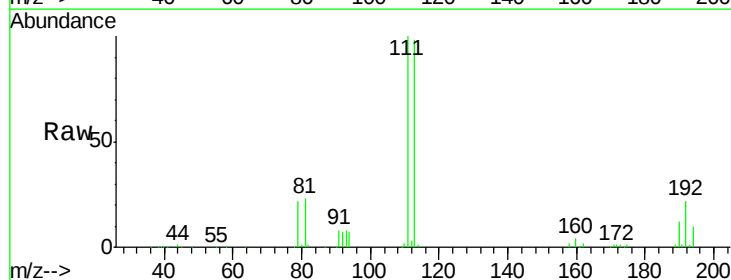
Tgt Ion:113 Resp: 117778

Ion Ratio Lower Upper

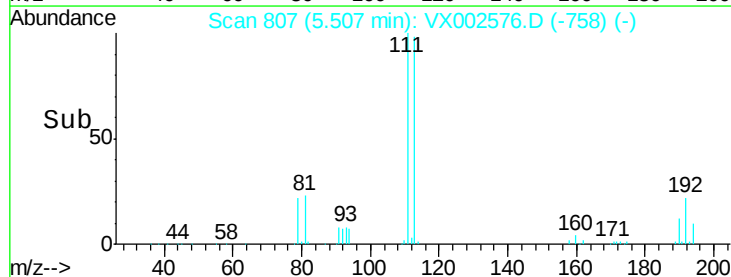
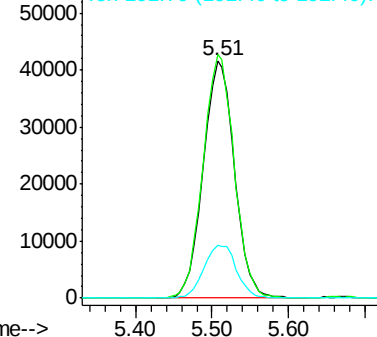
113 100

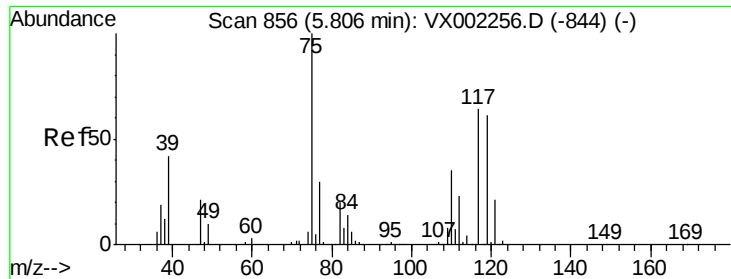
111 102.2 81.4 122.0

192 23.2 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

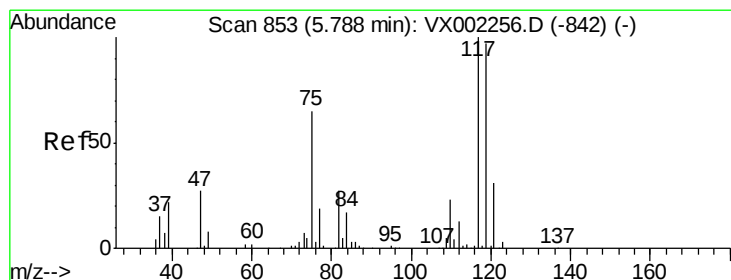
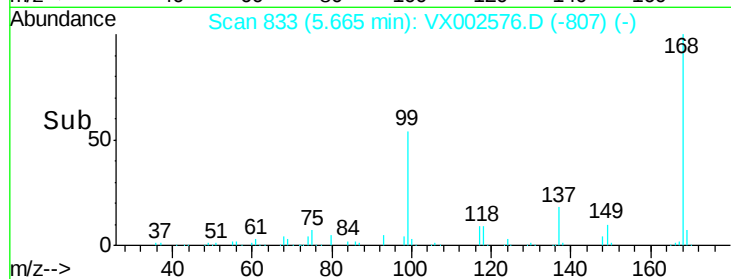
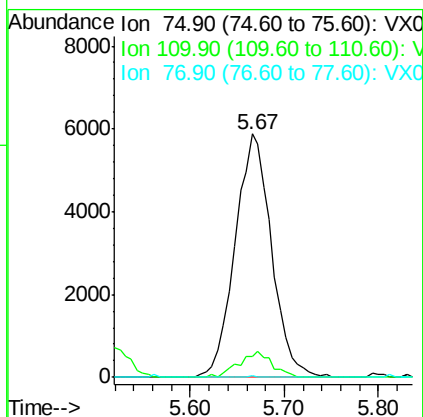
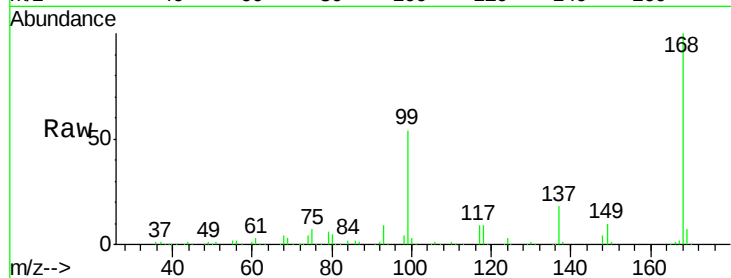




#36
 1,1-Dichloropropene
 Concen: 4.59 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002576.D
 Acq: 15 Jun 2018 02:56

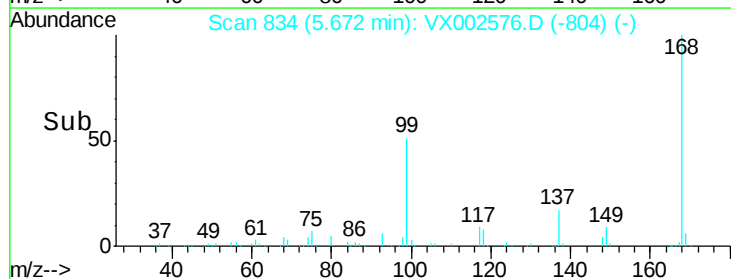
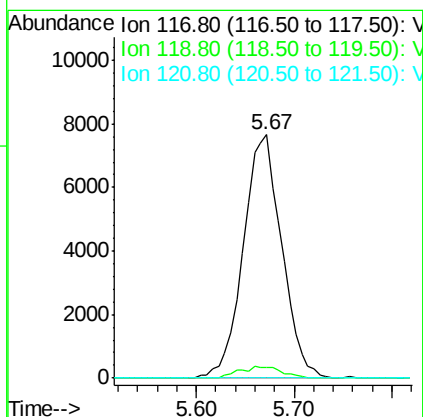
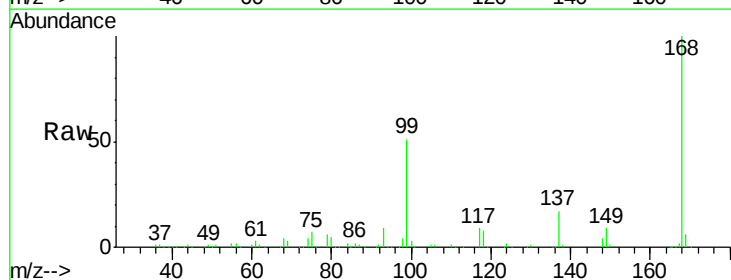
Instrument :
 MSVOA_X
 ClientSampleId :

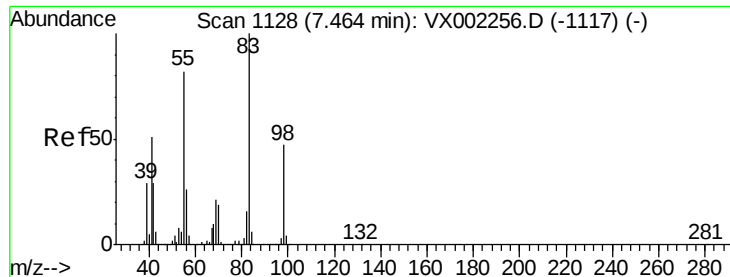
Tot Ion	75	Resp	15864
Ion Ratio	Lower	Upper	
75	100		
110	9.7	18.1	54.4#
77	0.1	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.77 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002576.D
 Acq: 15 Jun 2018 02:56

Tgt Ion	117	Resp	20869
Ion Ratio	Lower	Upper	
117	100		
119	4.4	77.4	116.0#
121	0.0	24.4	36.6#

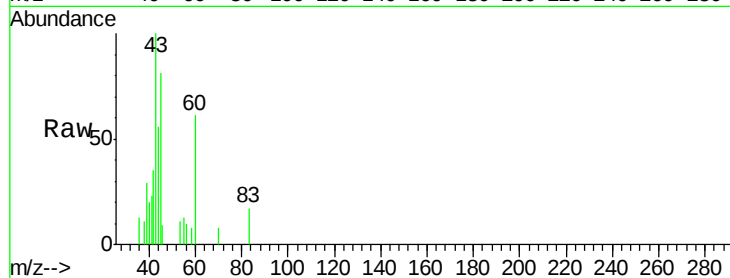




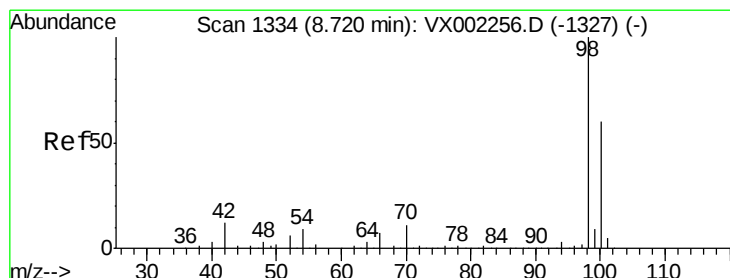
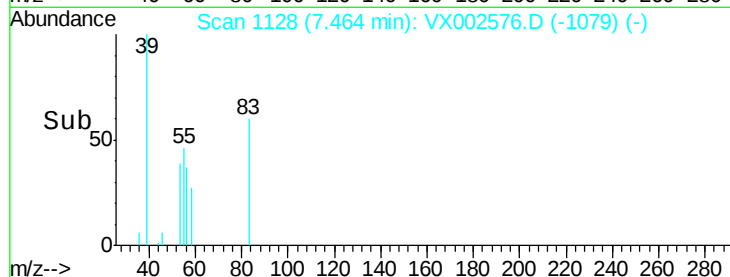
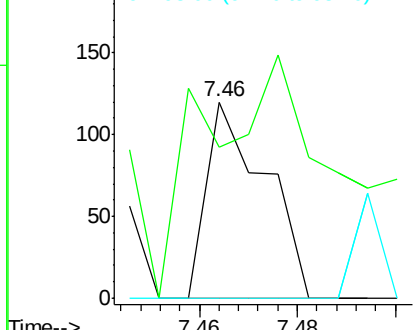
#39
Methylcyclohexane
Concen: 0.29 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 100
Ion Ratio Lower Upper
83 100
55 12.5 65.4 98.0#
98 0.0 37.4 56.0#

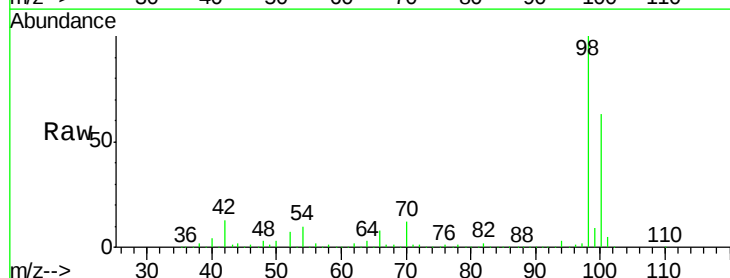


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

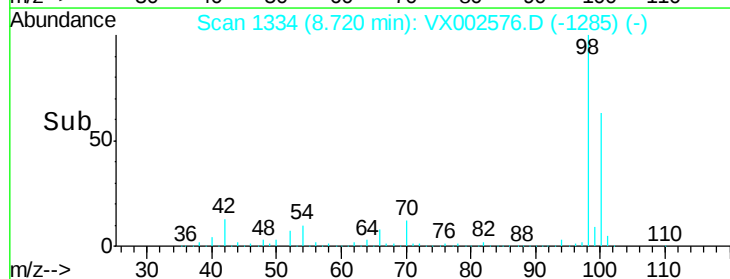
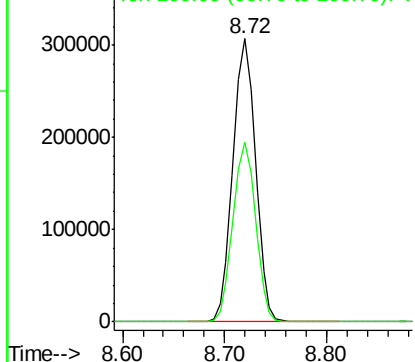


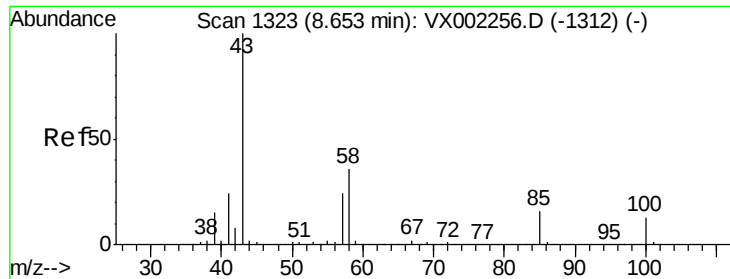
#50
Toluene-d8
Concen: 47.55 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

Tgt Ion: 98 Resp: 471237
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 1.32 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :

MSVOA_X

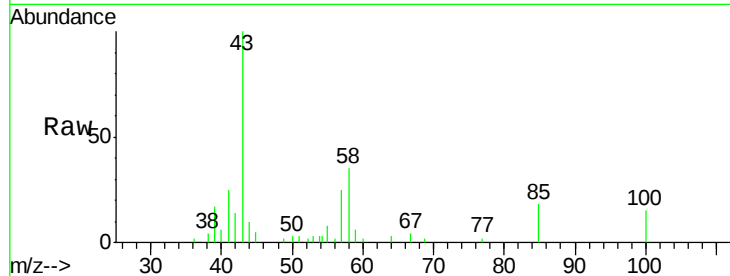
ClientSampleId :

Tot Ion: 43 Resp: 5811

Ion Ratio Lower Upper

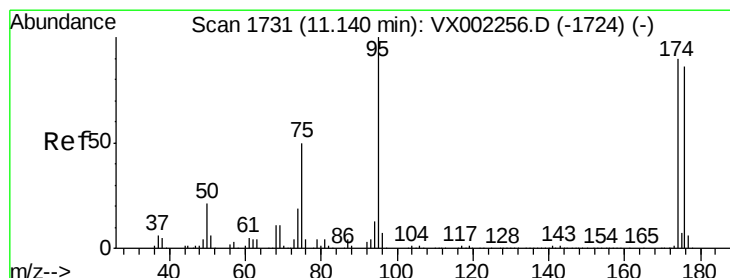
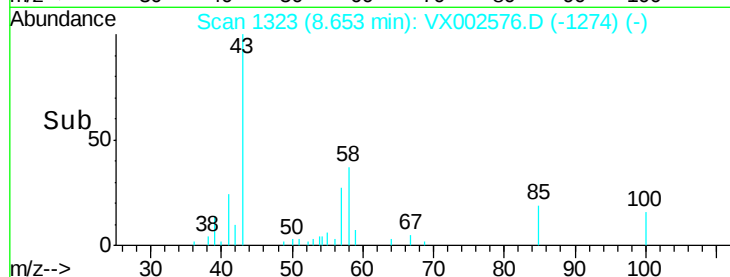
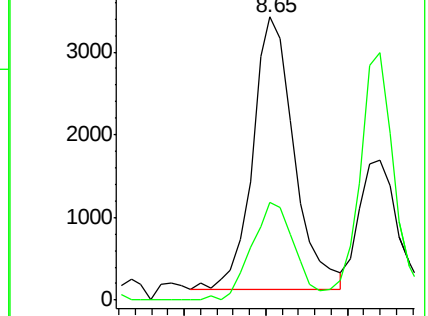
43 100

58 36.8 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 43.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

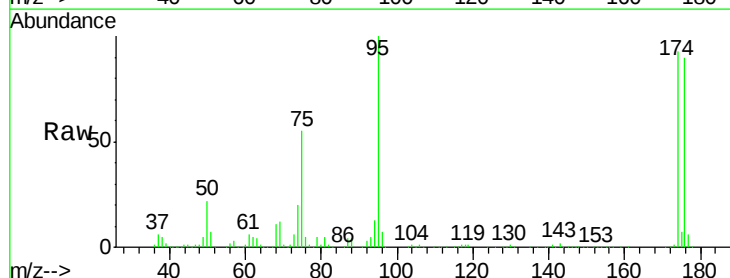
Tgt Ion: 95 Resp: 165454

Ion Ratio Lower Upper

95 100

174 95.0 0.0 187.4

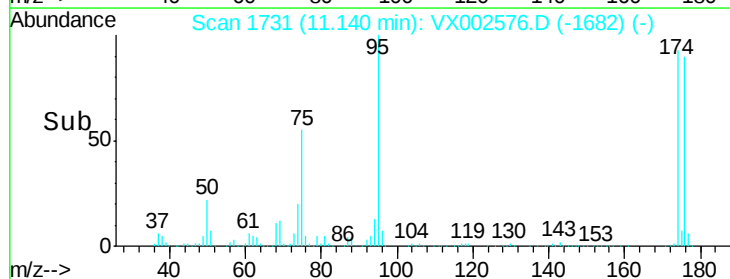
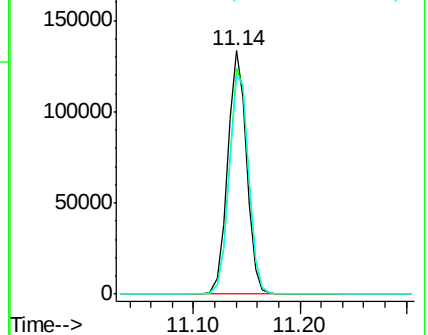
176 93.8 0.0 181.0

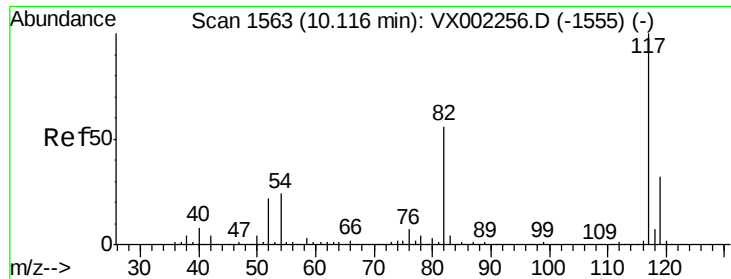


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

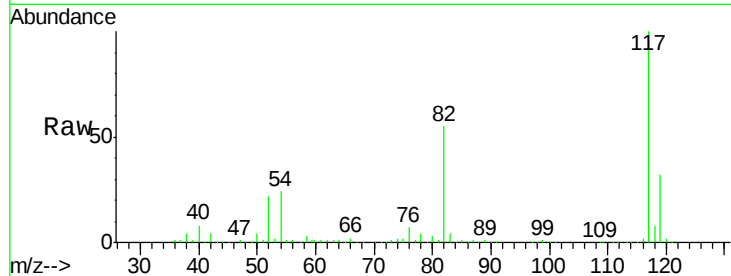




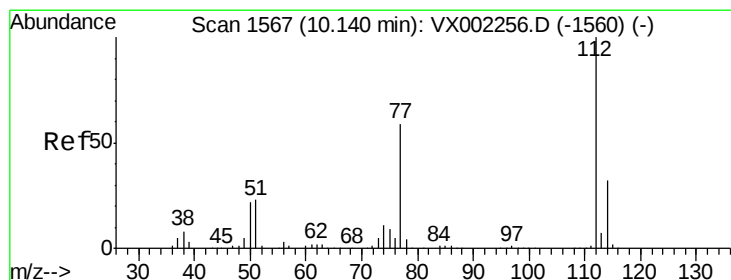
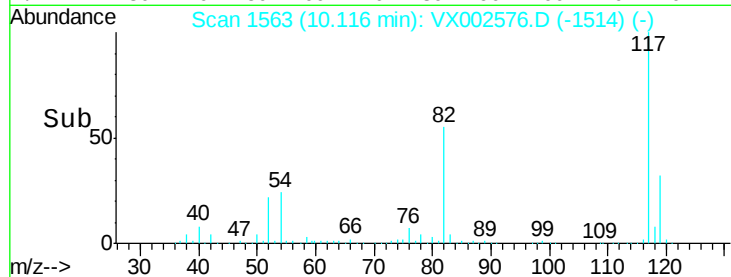
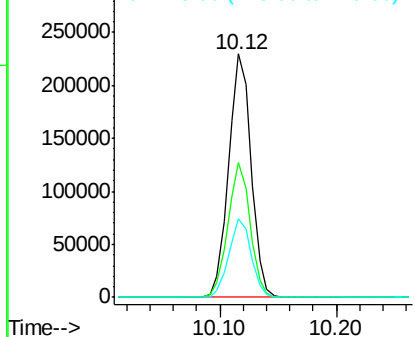
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 307952
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 32.5 25.8 38.6

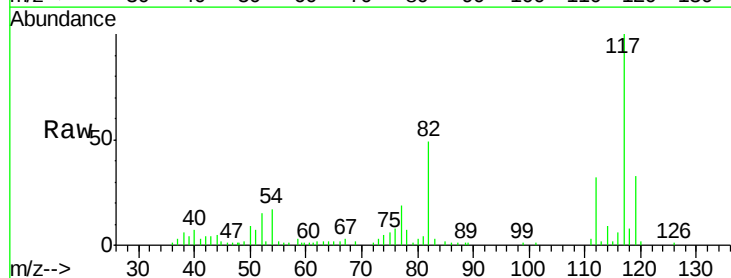


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

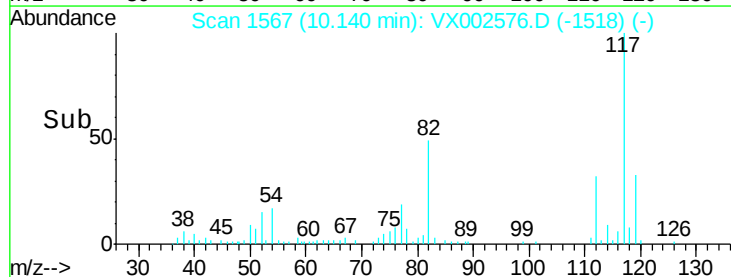
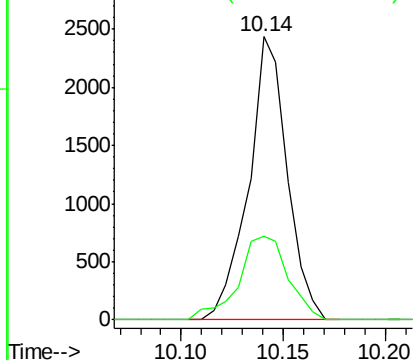


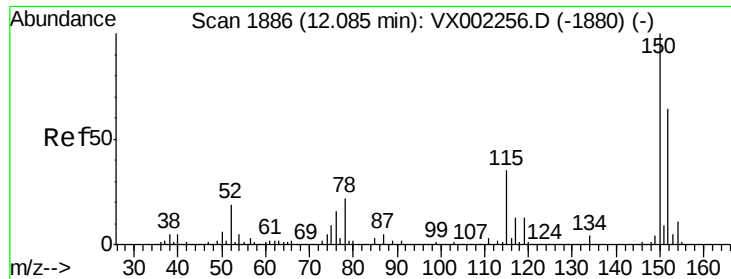
#65
Chlorobenzene
Concen: 0.42 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002576.D
Acq: 15 Jun 2018 02:56

Tgt Ion:112 Resp: 3211
Ion Ratio Lower Upper
112 100
114 29.5 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: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :

MSVOA_X

ClientSampleId :

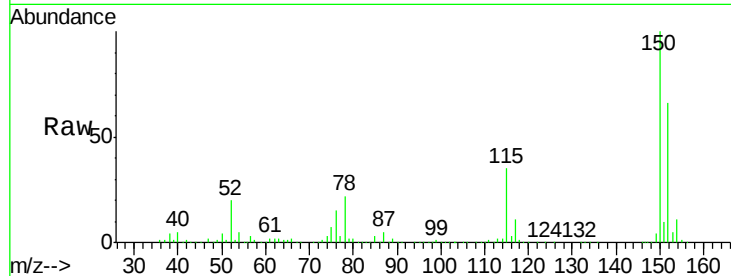
Tot Ion:152 Resp: 175167

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

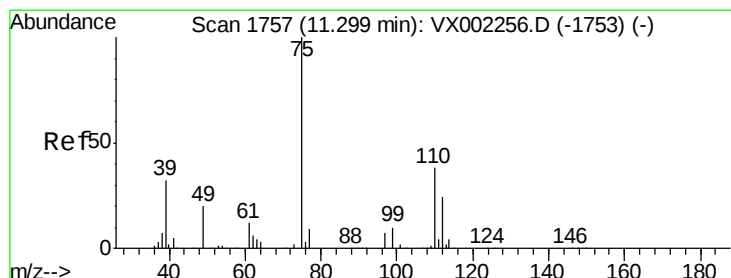
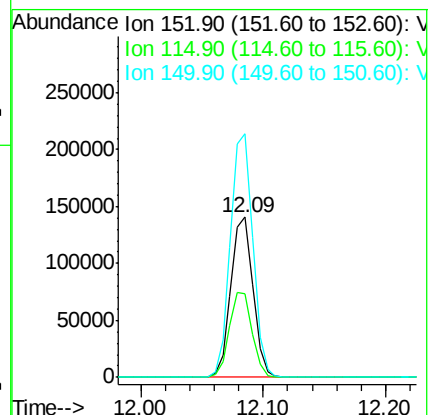
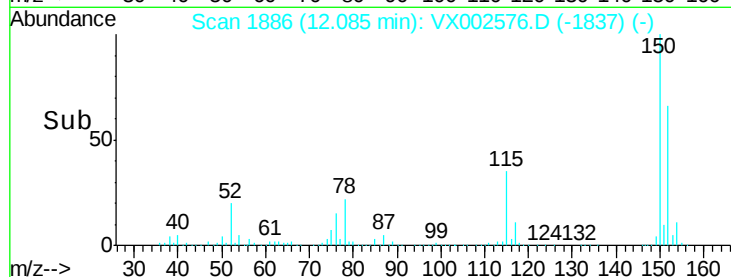
150 154.3 0.0 347.2



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: 23.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002576.D

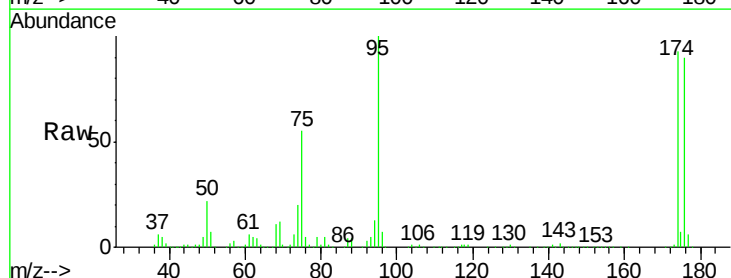
Acq: 15 Jun 2018 02:56

Tgt Ion: 75 Resp: 90308

Ion Ratio Lower Upper

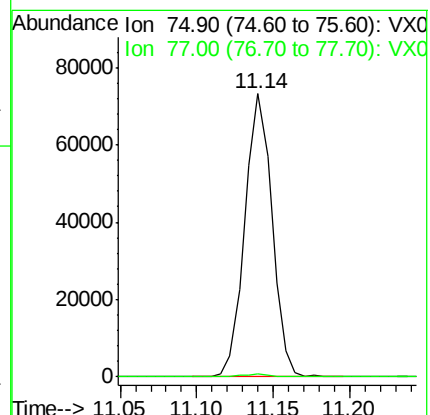
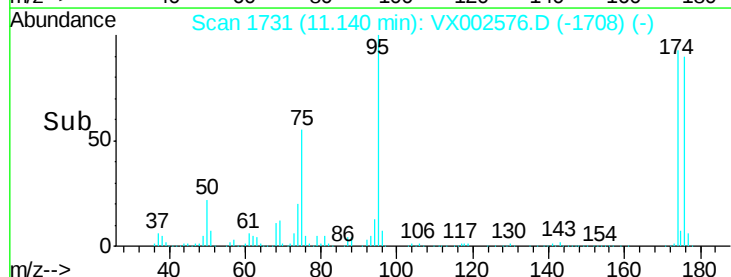
75 100

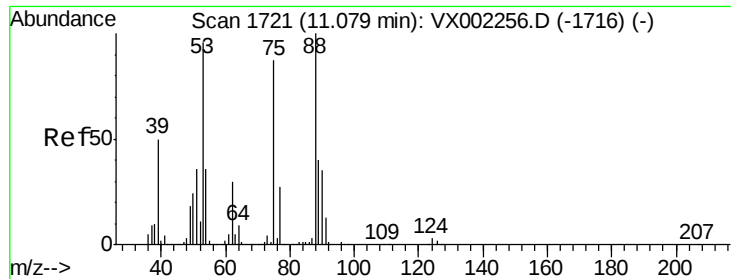
77 1.3 22.8 68.3#



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: 82.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002576.D

Acq: 15 Jun 2018 02:56

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 90308

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

