

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002517.D
 Acq On : 13 Jun 2018 19:08
 Operator : JC/MD
 Sample : J3406-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:48:19 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	207571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	303688	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	283269	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	157939	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	149043	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
35) Dibromofluoromethane	5.51	113	111860	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	8.72	98	438910	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
62) 4-Bromofluorobenzene	11.14	95	152050	43.08	ug/l	0.00
Spiked Amount			Recovery	=	86.16%	

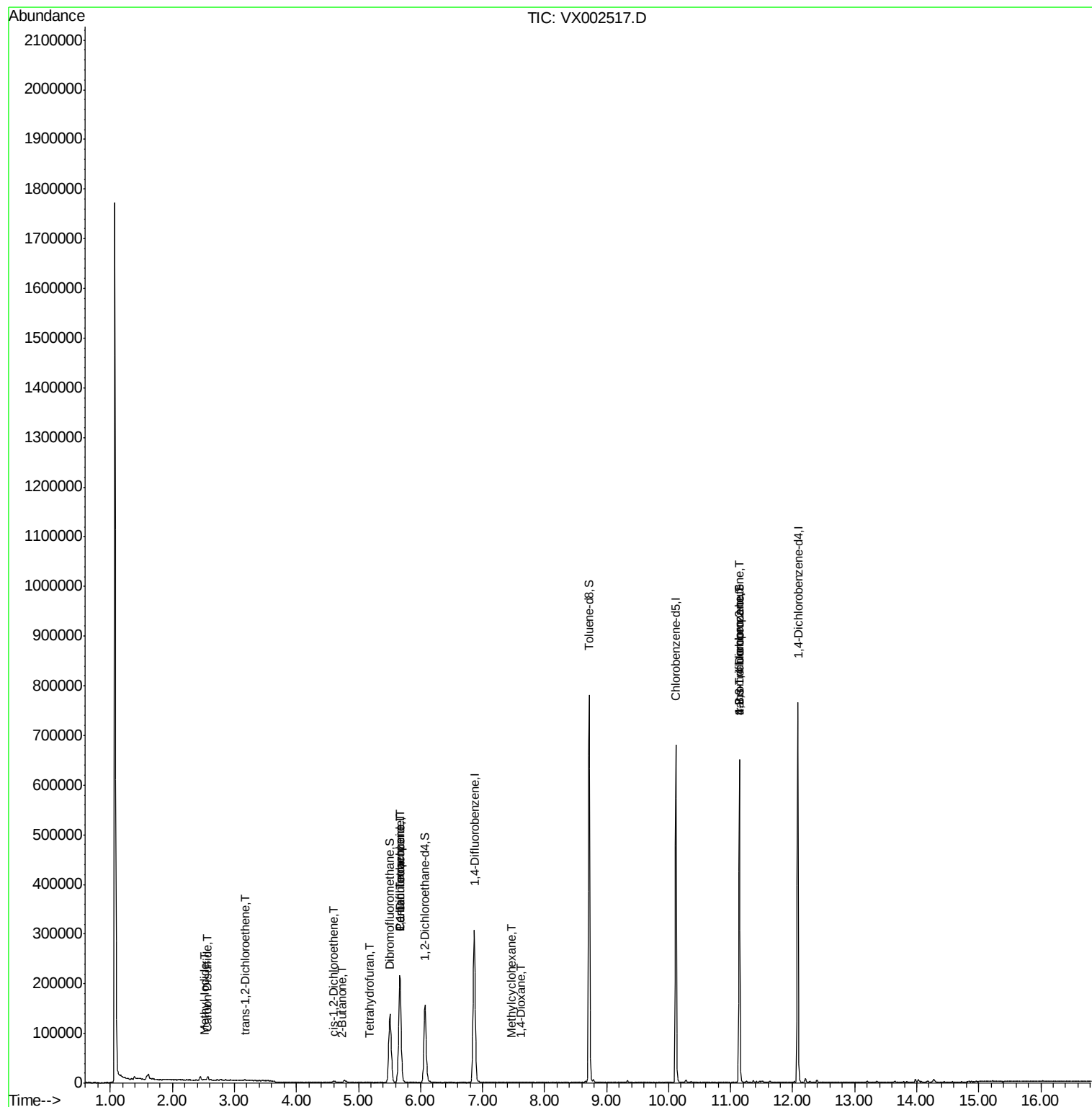
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	330	Below Cal		93
5) Bromomethane	1.65	94	1180	Below Cal		99
8) Diethyl Ether	2.18	74	51	Below Cal		91
10) Methyl Iodide	2.52	142	1518	0.48 ug/l		98
11) Tert butyl alcohol	3.08	59	997	Below Cal	#	79
13) Acrolein	2.27	56	224	Below Cal	#	56
15) Acrylonitrile	3.14	53	573	Below Cal	#	31
16) Acetone	2.45	43	7128	Below Cal		96
17) Carbon Disulfide	2.57	76	8086	1.39 ug/l	#	92
18) Methyl Acetate	2.78	43	971	Below Cal		92
19) Methyl tert-butyl Ether	3.20	73	55	Below Cal	#	54
20) Methylene Chloride	2.86	84	427	Below Cal	#	79
21) trans-1,2-Dichloroethene	3.17	96	679	0.28 ug/l		84
22) Diisopropyl ether	3.89	45	177	Below Cal	#	42
25) 2-Butanone	4.72	43	901	0.44 ug/l	#	41
27) cis-1,2-Dichloroethene	4.60	96	1379	0.52 ug/l		13
28) Bromochloromethane	5.02	49	54	Below Cal	#	59
29) Tetrahydrofuran	5.18	42	847	0.65 ug/l	#	77
36) 1,1-Dichloropropene	5.67	75	15544	4.87 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	19320	5.78 ug/l	#	17
39) Methylcyclohexane	7.46	83	348	0.35 ug/l	#	44
49) 1,4-Dioxane	7.61	88	19	0.31 ug/l	#	56
76) 1,2,3-Trichloropropane	11.14	75	83177	24.00 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	83177	84.13 ug/l	#	7

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

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QLast Update : Tue Jun 05 03:22:35 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

Instrument :

MSVOA_X

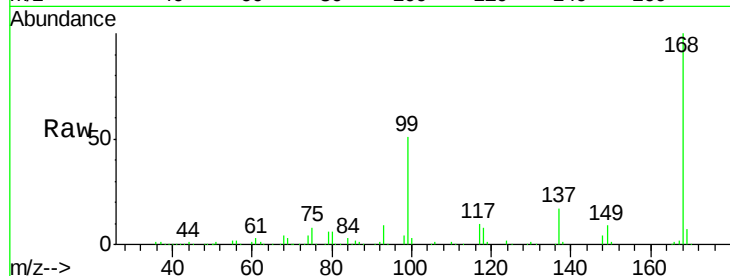
ClientSampleId :

Tot Ion:168 Resp: 207571

Ion Ratio Lower Upper

168 100

99 51.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

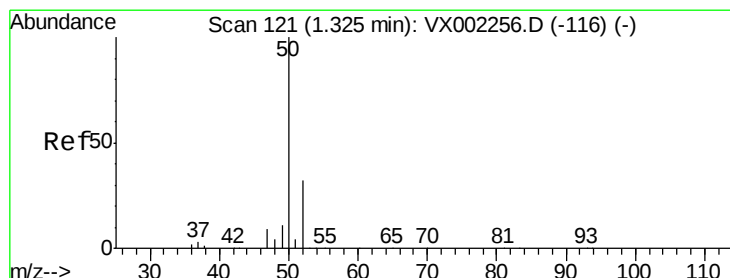
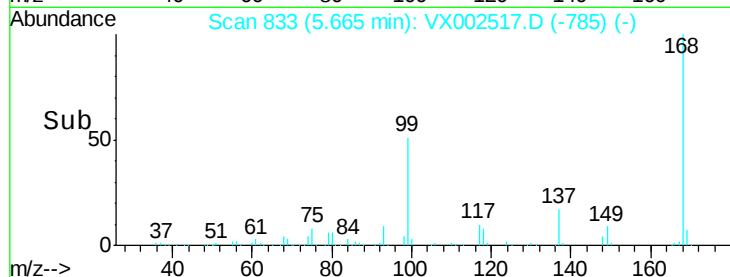
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002517.D

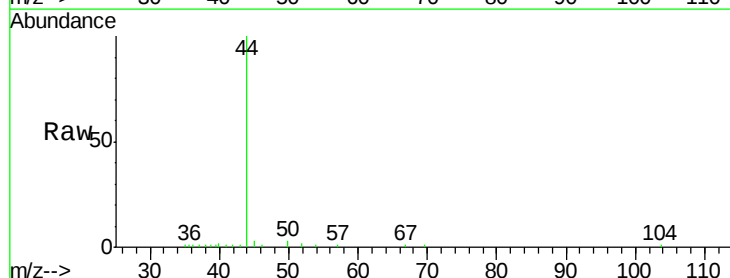
Acq: 13 Jun 2018 19:08

Tgt Ion: 50 Resp: 330

Ion Ratio Lower Upper

50 100

52 36.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

150

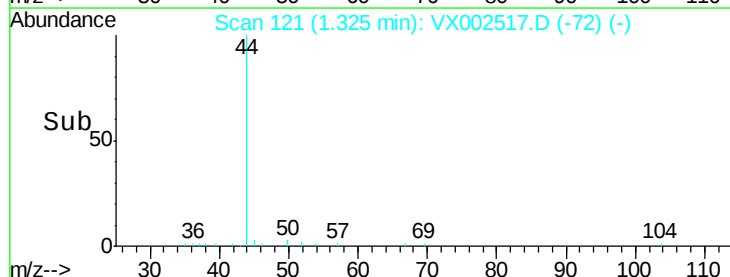
100

50

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

Instrument :

MSVOA_X

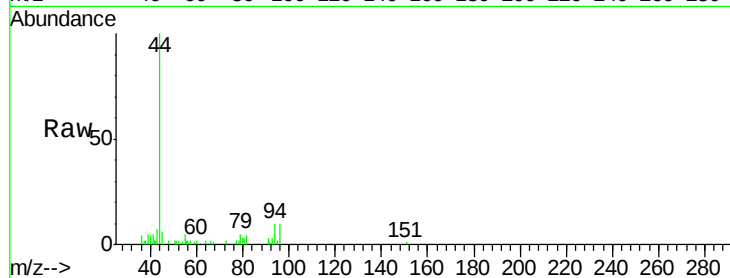
ClientSampled :

Tot Ion: 94 Resp: 1180

Ion Ratio Lower Upper

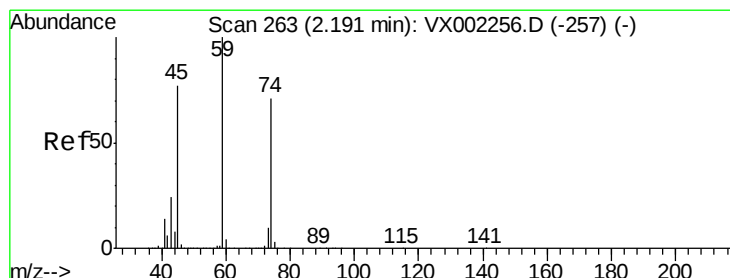
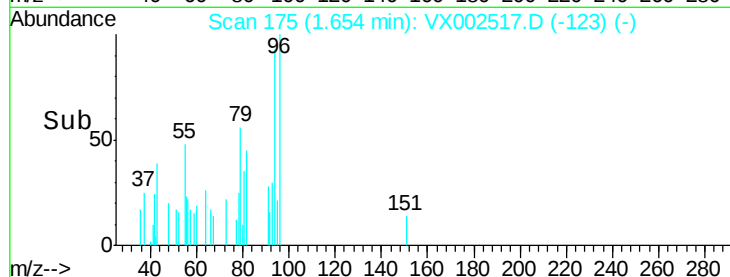
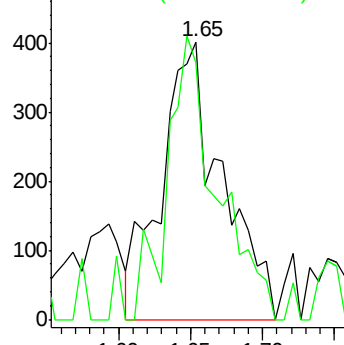
94 100

96 92.5 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: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002517.D

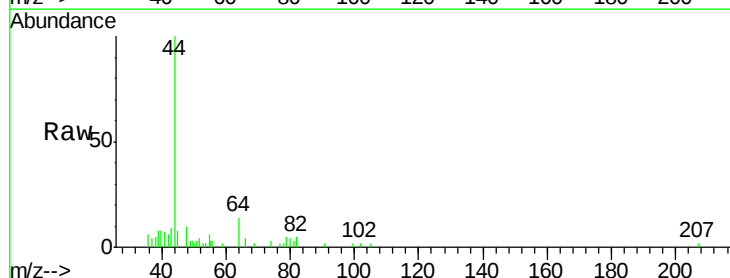
Acq: 13 Jun 2018 19:08

Tgt Ion: 74 Resp: 51

Ion Ratio Lower Upper

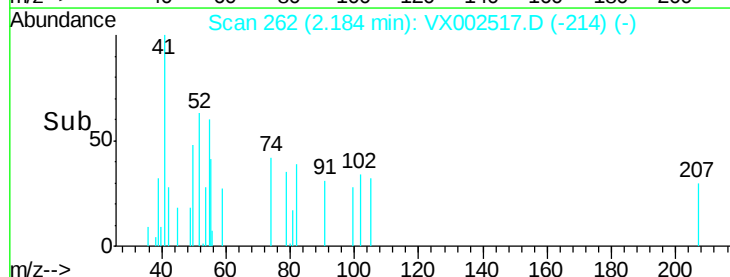
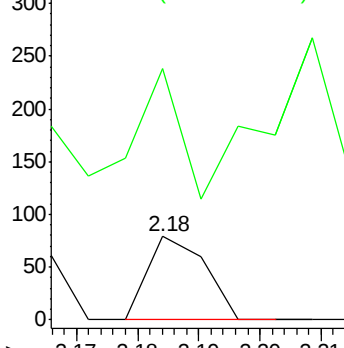
74 100

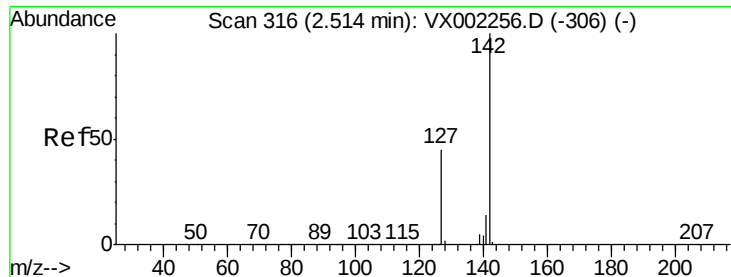
45 115.7 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

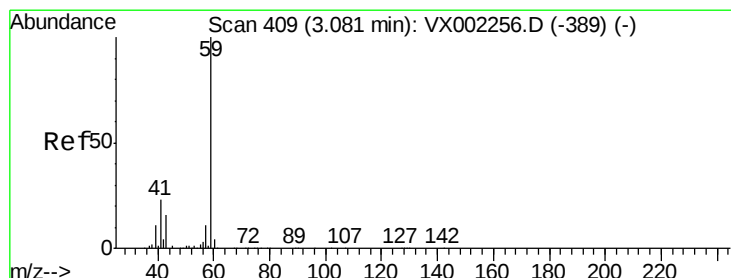
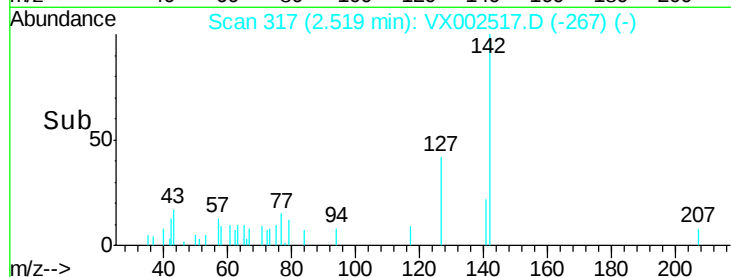
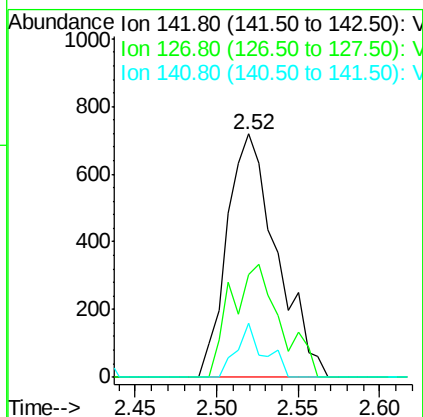
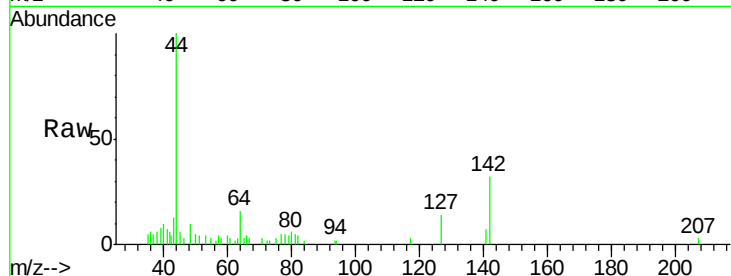




#10
Methvl Iodide
Concen: 0.48 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

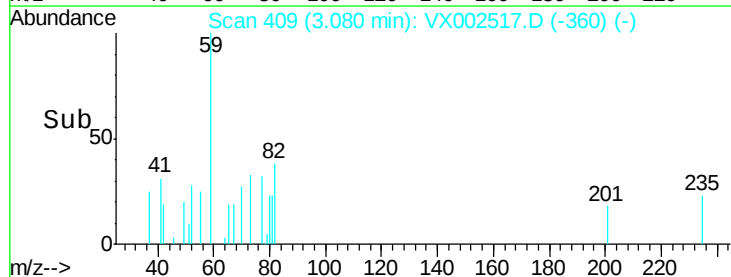
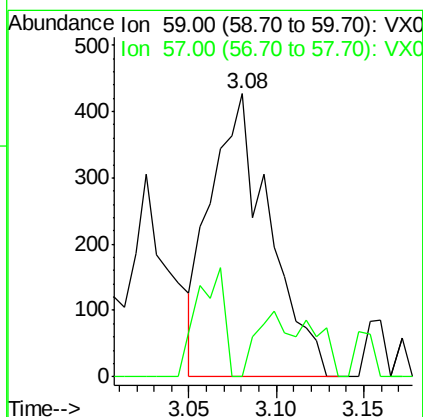
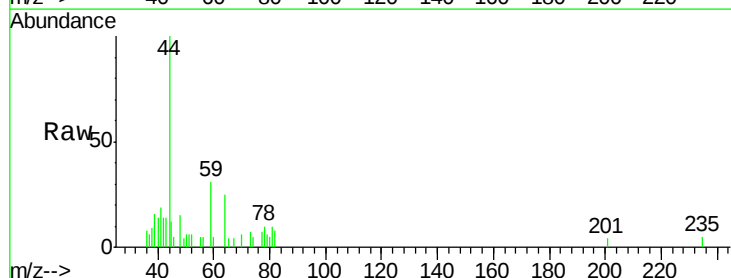
Instrument :
MSVOA_X
ClientSampled :

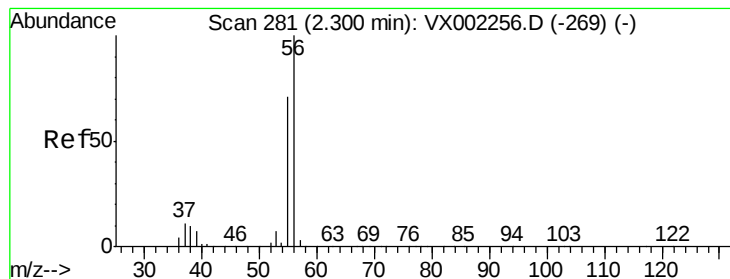
Tot Ion:142 Resp: 1518
Ion Ratio Lower Upper
142 100
127 46.6 36.6 55.0
141 12.2 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Tgt Ion: 59 Resp: 997
Ion Ratio Lower Upper
59 100
57 17.9 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.27 min Scan# 276

Delta R.T. -0.03 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

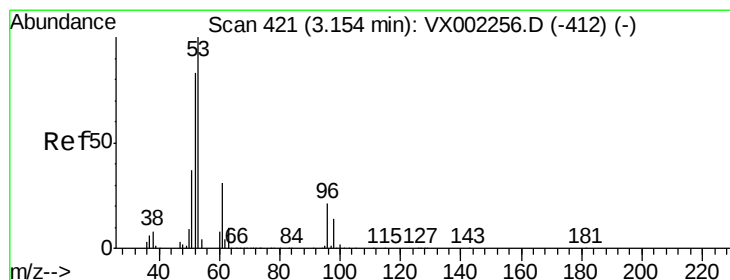
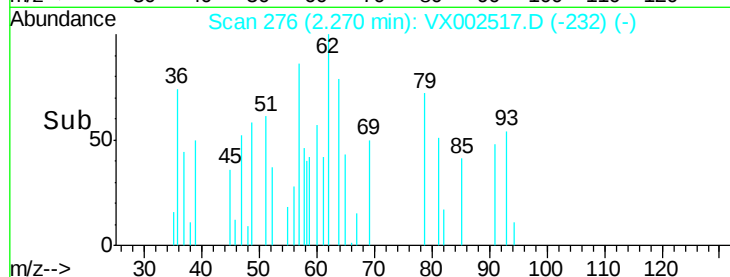
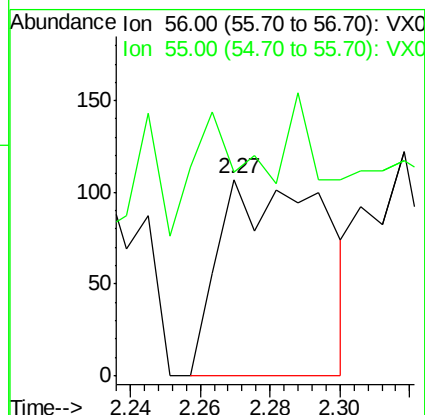
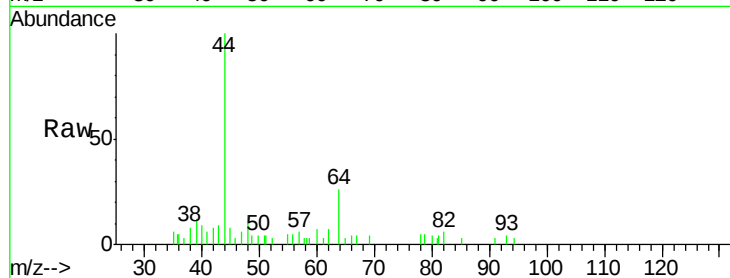
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 224

Ion Ratio Lower Upper

56 100

55 34.8 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

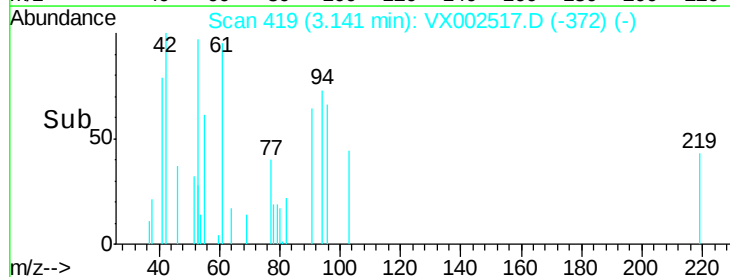
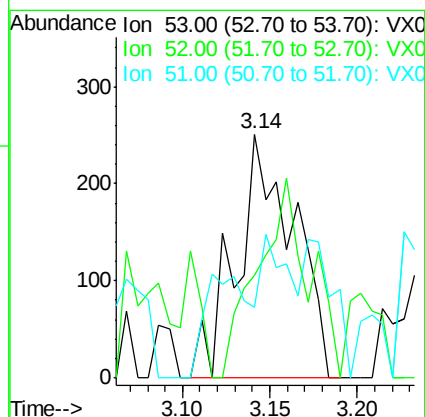
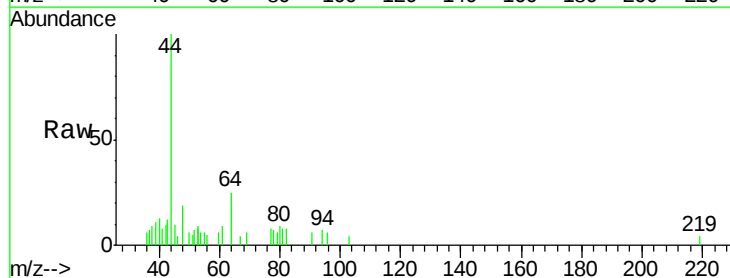
Tgt Ion: 53 Resp: 573

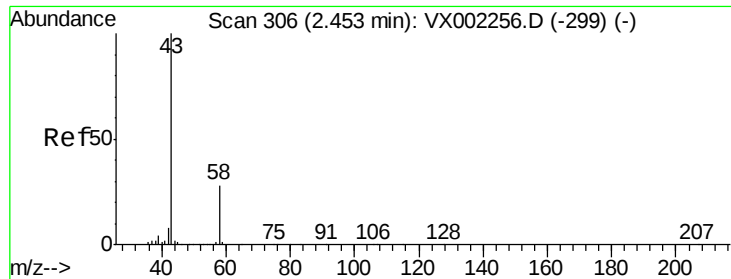
Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 26.4 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

Instrument :

MSVOA_X

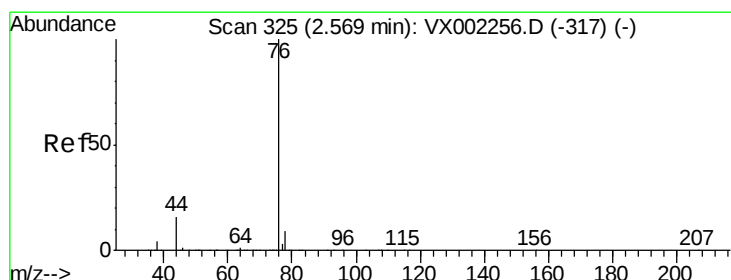
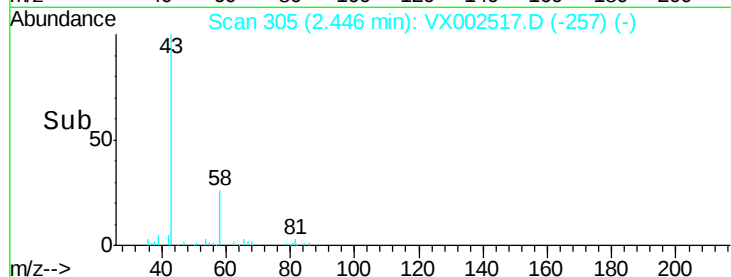
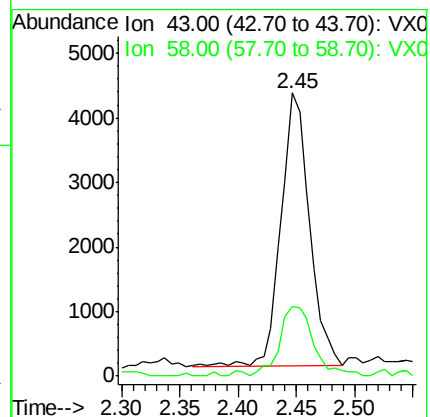
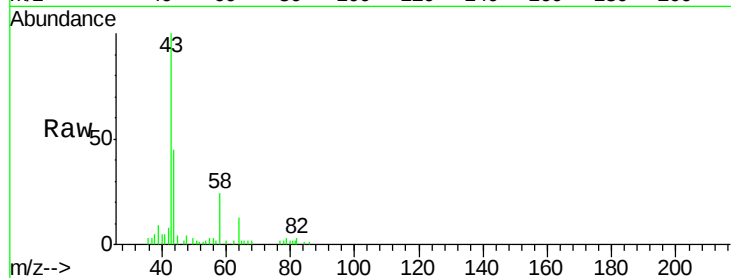
ClientSampleId :

Tot Ion: 43 Resp: 7128

Ion Ratio Lower Upper

43 100

58 25.4 22.1 33.1



#17

Carbon Disulfide

Concen: 1.39 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002517.D

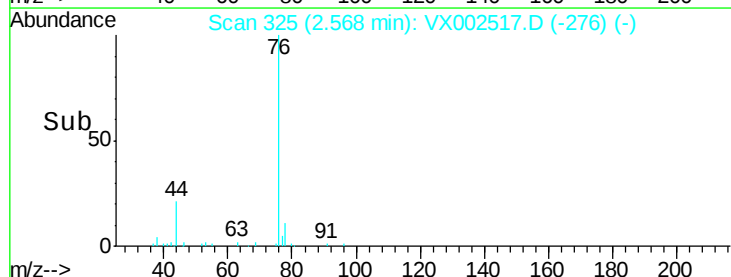
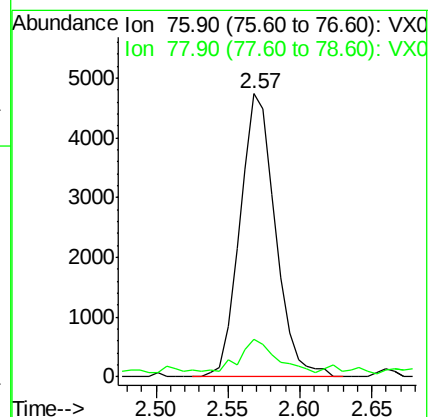
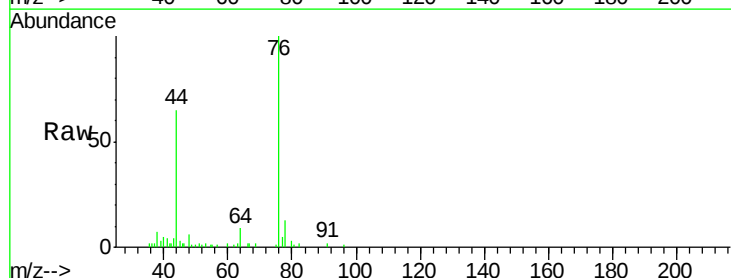
Acq: 13 Jun 2018 19:08

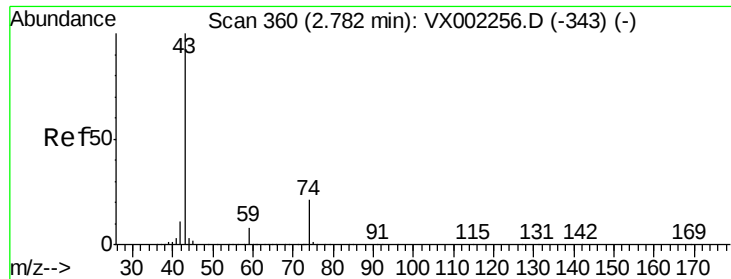
Tgt Ion: 76 Resp: 8086

Ion Ratio Lower Upper

76 100

78 11.4 6.9 10.3#





#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

Instrument :

MSVOA_X

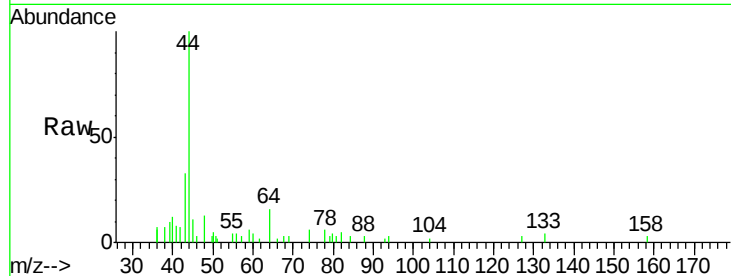
ClientSampleId :

Tot Ion: 43 Resp: 971

Ion Ratio Lower Upper

43 100

74 24.4 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

800

600

400

200

0

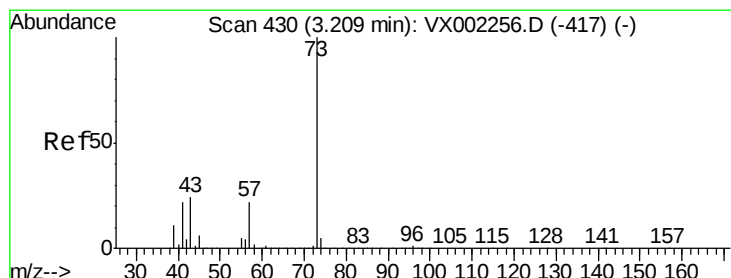
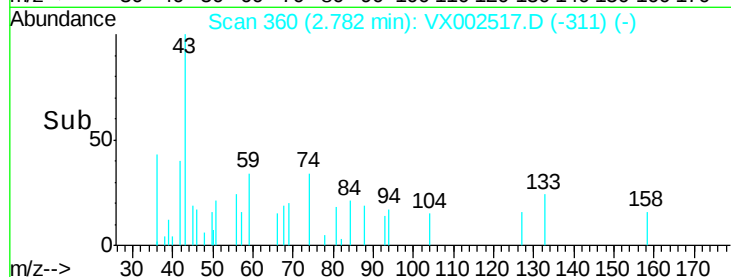
2.70

2.75

2.80

2.85

Time-->



#19

Methyl tert-butyl Ether

Concen: Below Cal

RT: 3.20 min Scan# 429

Delta R.T. -0.01 min

Lab File: VX002517.D

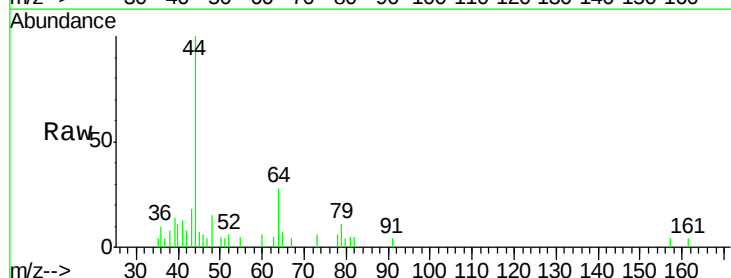
Acq: 13 Jun 2018 19:08

Tgt Ion: 73 Resp: 55

Ion Ratio Lower Upper

73 100

57 0.0 17.7 26.5#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

80

60

40

20

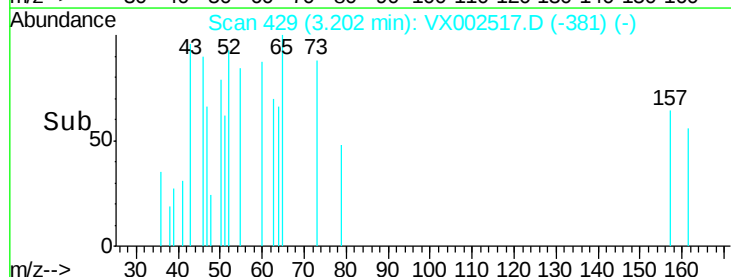
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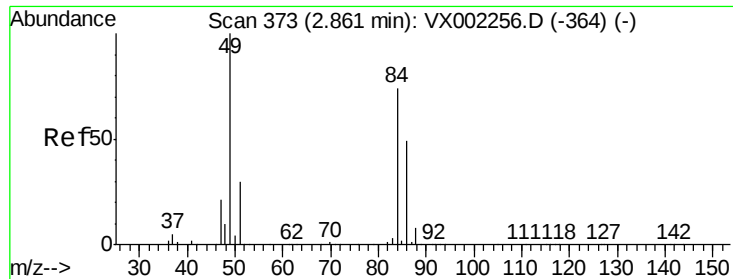
3.18

3.20

3.22

Time-->

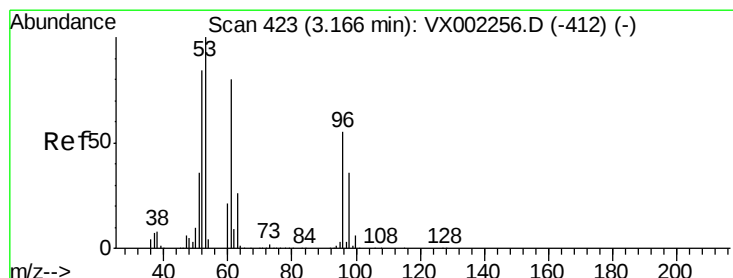
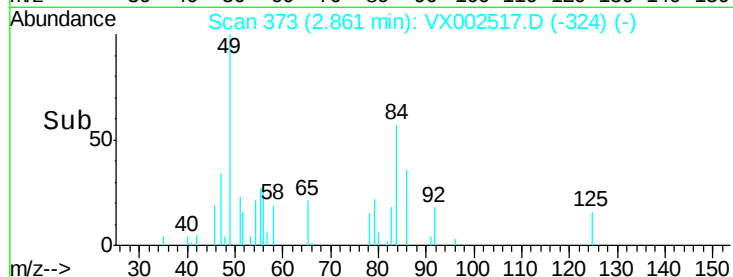
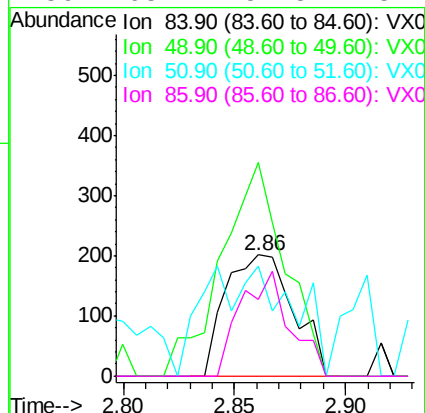
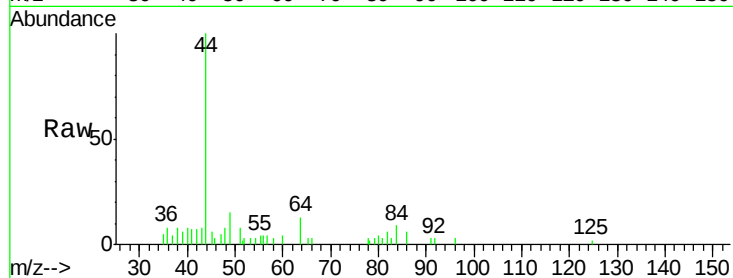




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

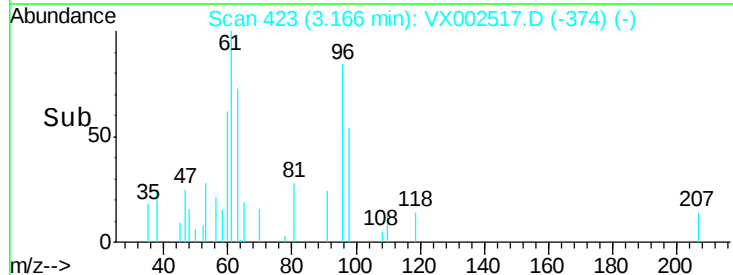
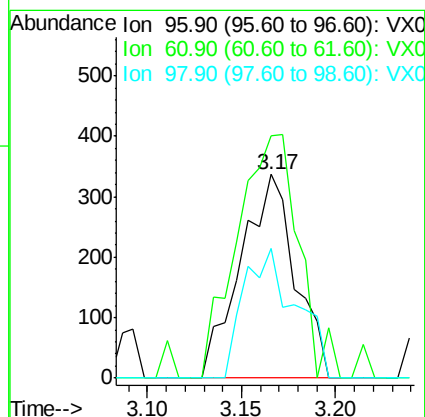
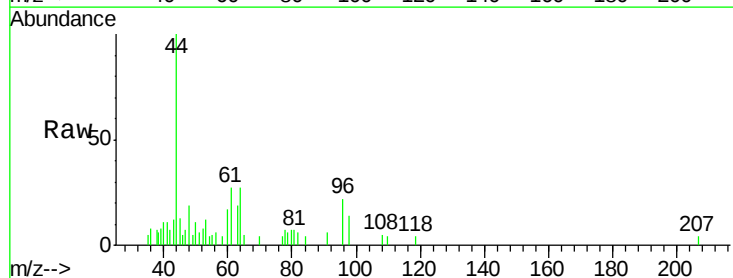
Instrument :
MSVOA_X
ClientSampleId :

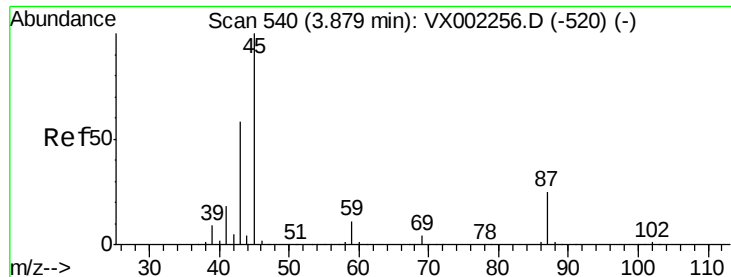
Tot Ion: 84 Resp: 427
Ion Ratio Lower Upper
84 100
49 176.6 107.8 161.6#
51 41.8 32.8 49.2
86 63.7 52.5 78.7



#21
trans-1,2-Dichloroethene
Concen: 0.28 ug/l
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Tgt Ion: 96 Resp: 679
Ion Ratio Lower Upper
96 100
61 118.7 117.0 175.4
98 63.8 52.4 78.6

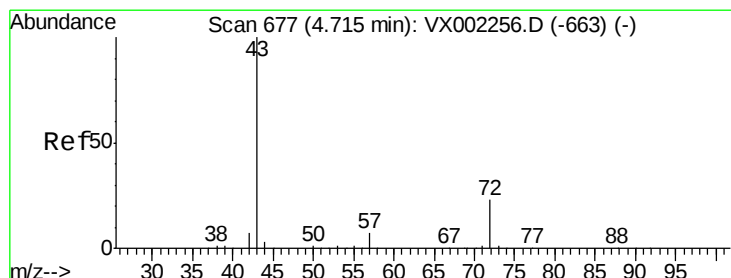
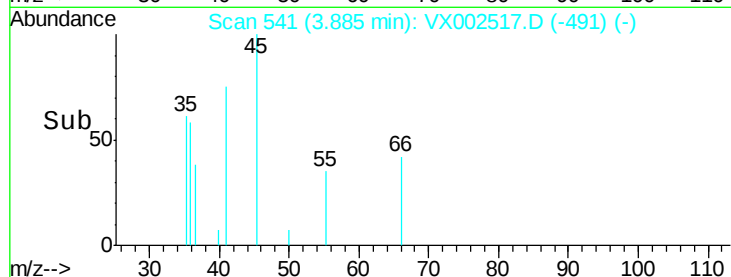
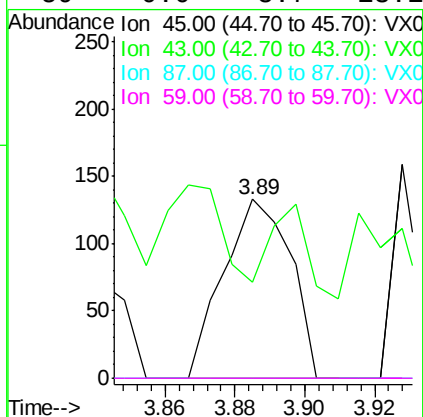
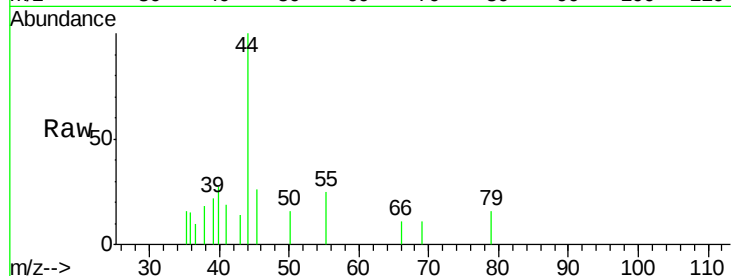




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

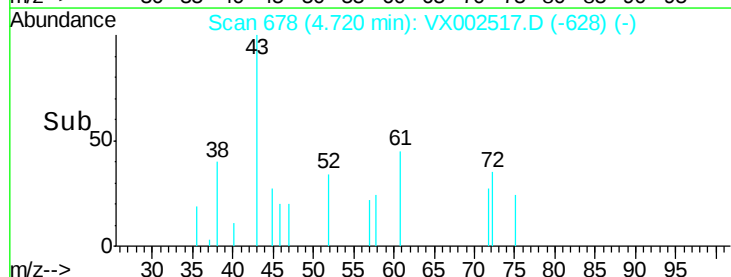
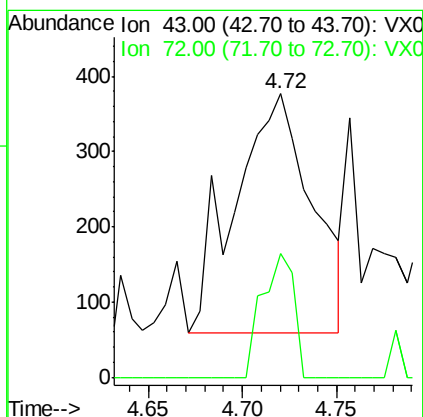
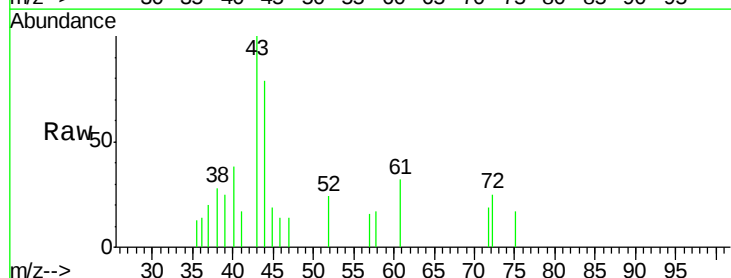
Instrument :
MSVOA_X
ClientSampled :

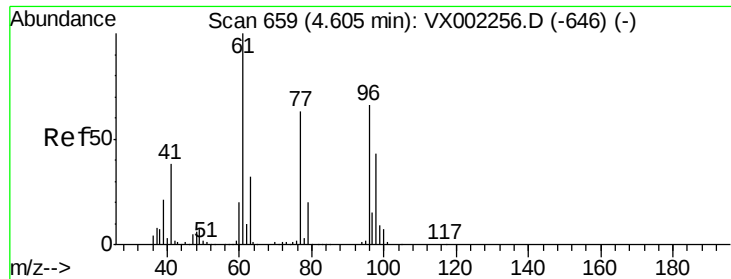
Tot Ion:	45	Resp:	177
Ion	Ratio	Lower	Upper
45	100		
43	9.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25
2-Butanone
Concen: 0.44 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Tgt Ion:	43	Resp:	901
Ion	Ratio	Lower	Upper
43	100		
72	51.6	18.5	27.7#





#27

cis-1,2-Dichloroethene

Concen: 0.52 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

Instrument :

MSVOA_X

ClientSampleId :

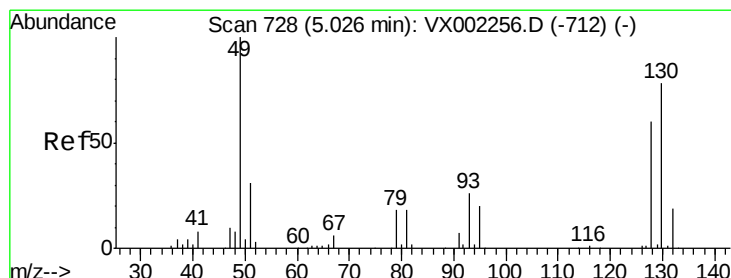
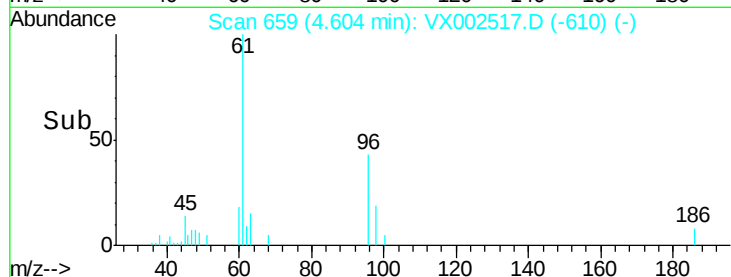
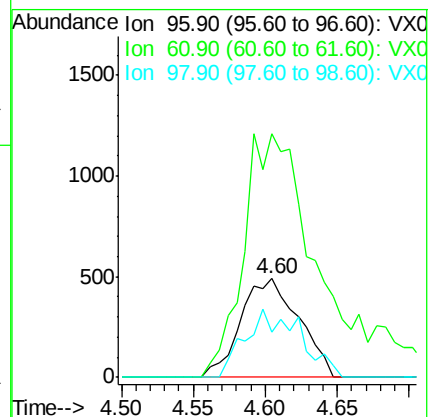
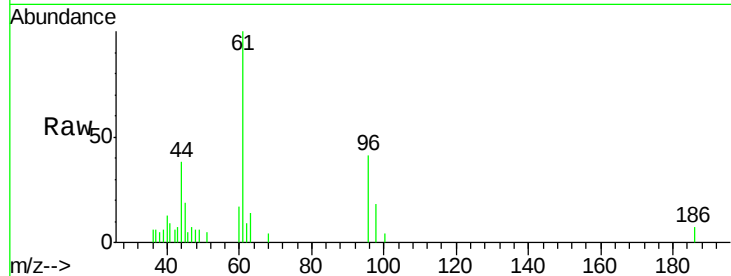
Tot Ion: 96 Resp: 1379

Ion Ratio Lower Upper

96 100

61 329.0 0.0 330.2

98 65.0 0.0 130.2



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

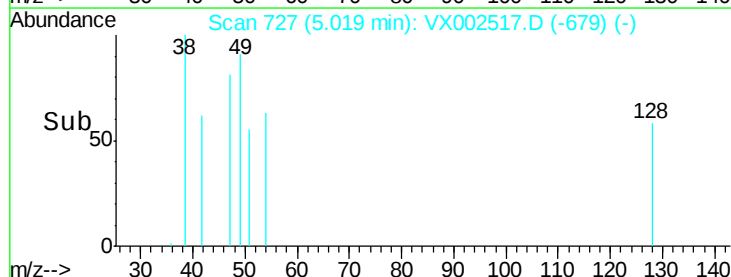
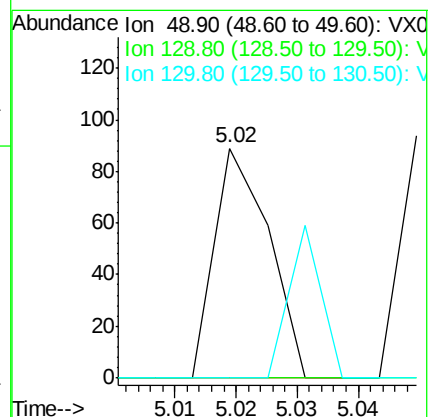
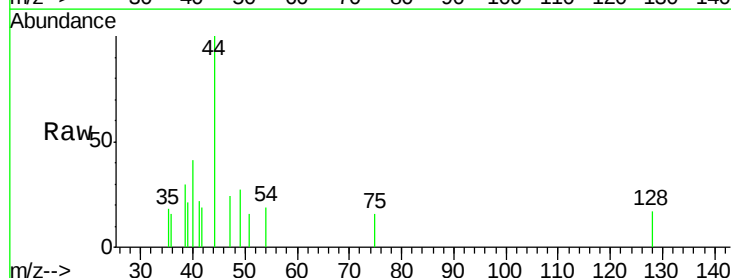
Tgt Ion: 49 Resp: 54

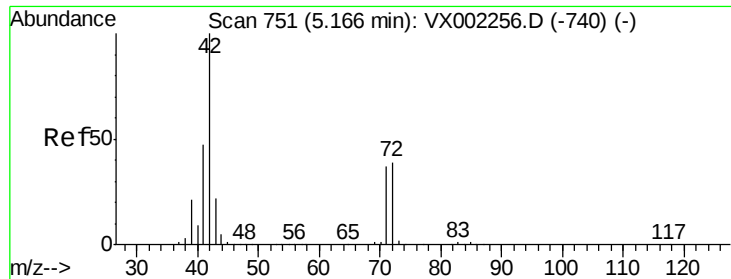
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 40.7 61.2 91.8#

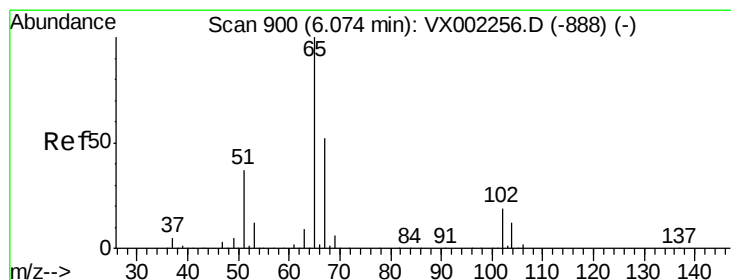
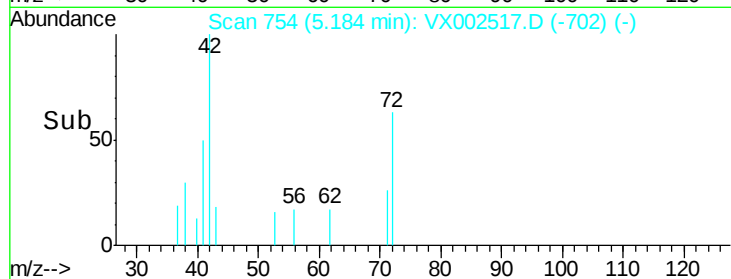
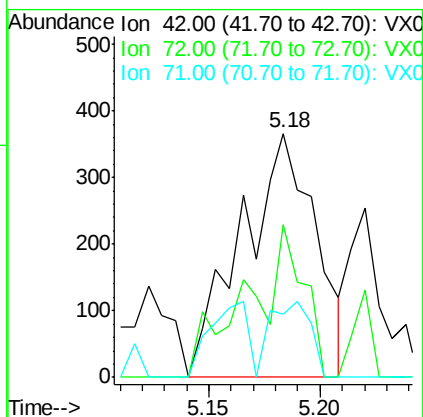
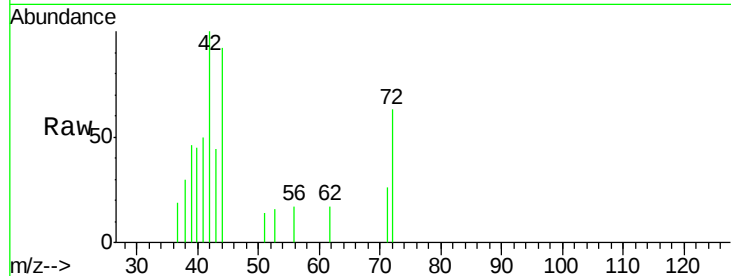




#29
Tetrahydrofuran
Concen: 0.65 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

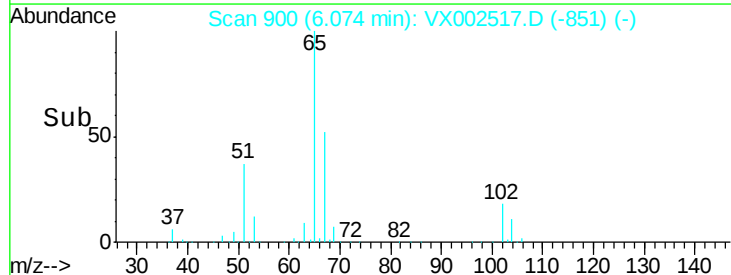
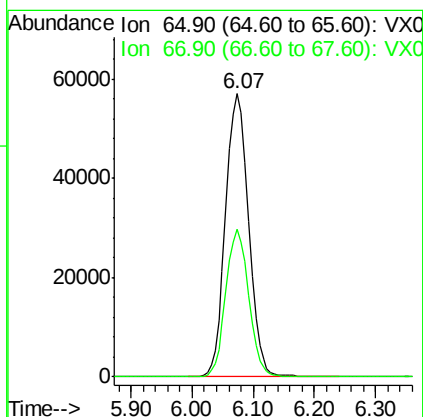
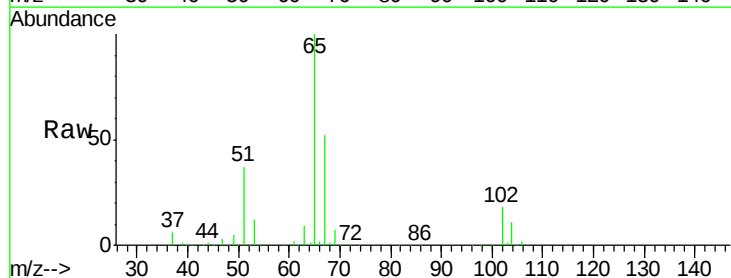
Instrument :
MSVOA_X
ClientSampleId :

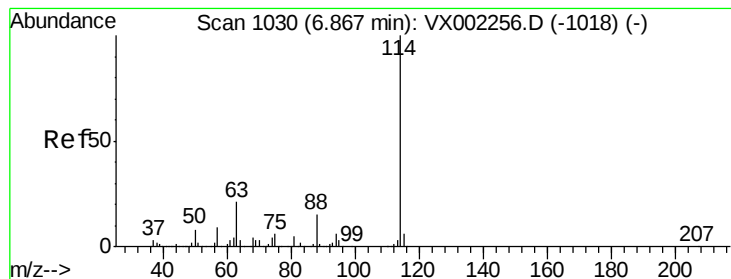
Tot Ion: 42 Resp: 847
Ion Ratio Lower Upper
42 100
72 47.5 32.0 48.0
71 16.9 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 50.23 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Tgt Ion: 65 Resp: 149043
Ion Ratio Lower Upper
65 100
67 51.7 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: VX002517.D

Acq: 13 Jun 2018 19:08

Instrument :
MSVOA_X
ClientSampleId :

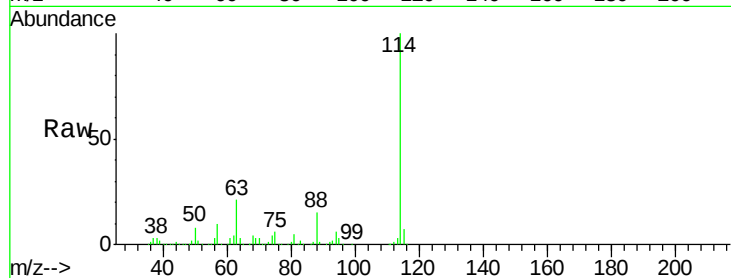
Tot Ion:114 Resp: 303688

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

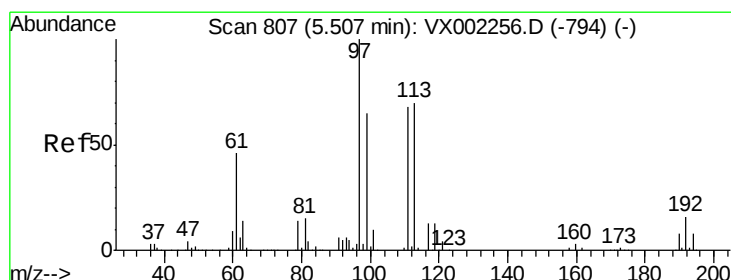
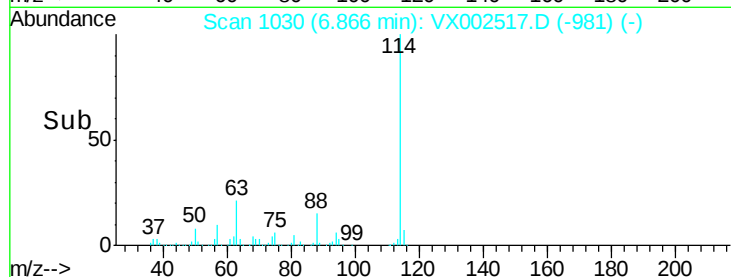
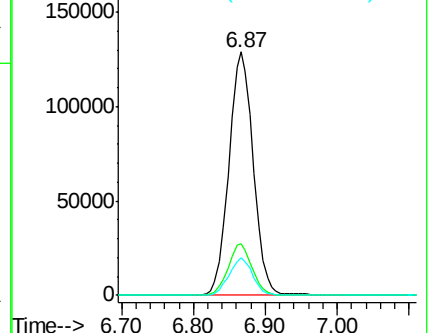
88 15.2 0.0 30.0



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: 46.84 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

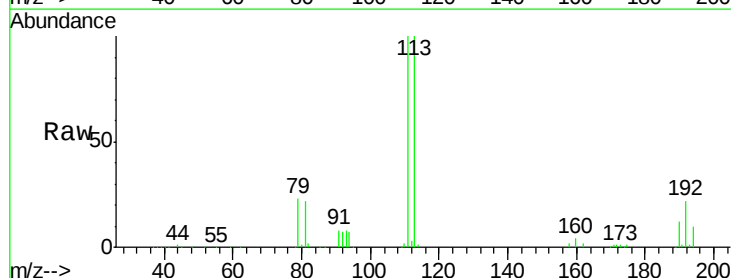
Tgt Ion:113 Resp: 111860

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

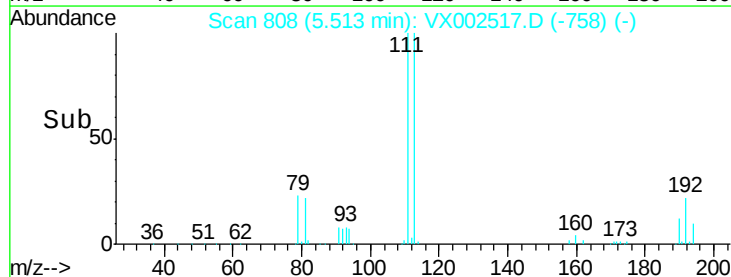
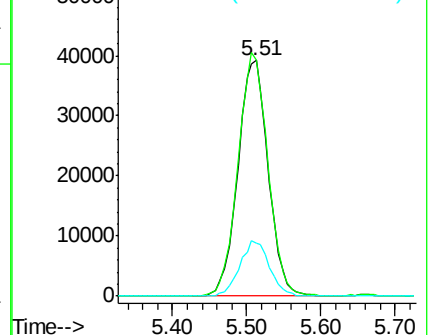
192 23.0 19.1 28.7

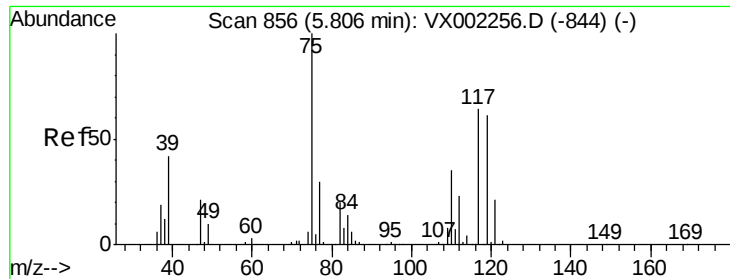


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

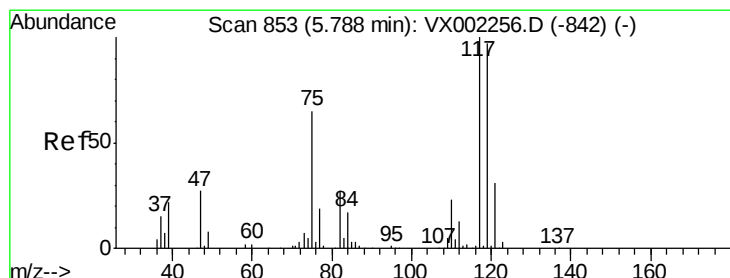
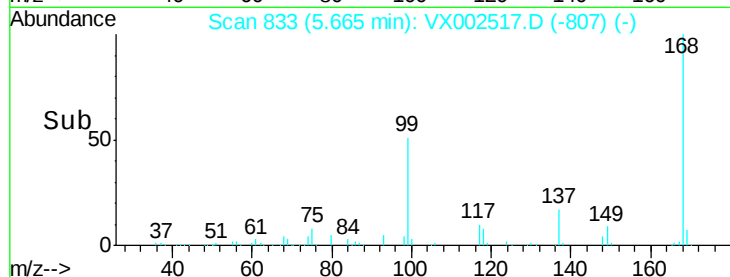
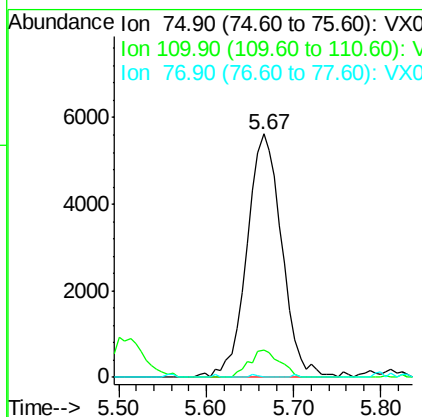
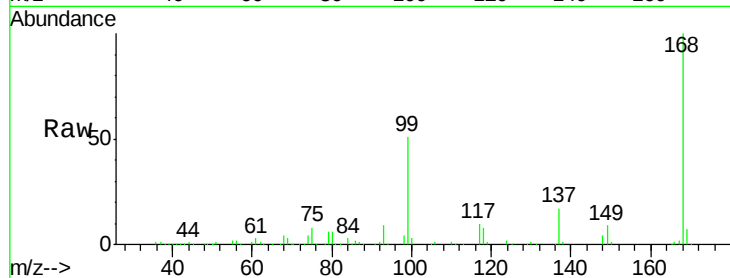




#36
 1,1-Dichloropropene
 Concen: 4.87 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002517.D
 Acq: 13 Jun 2018 19:08

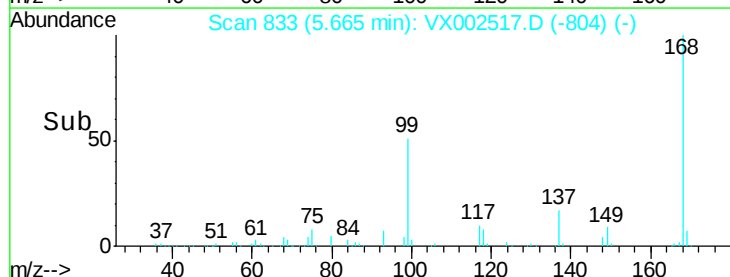
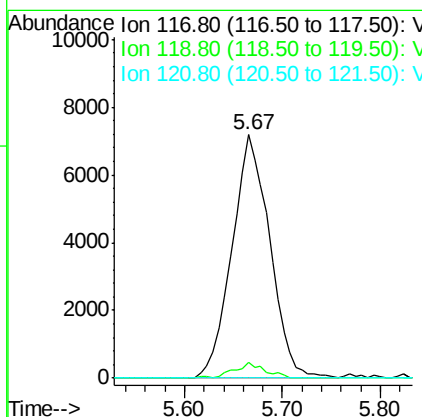
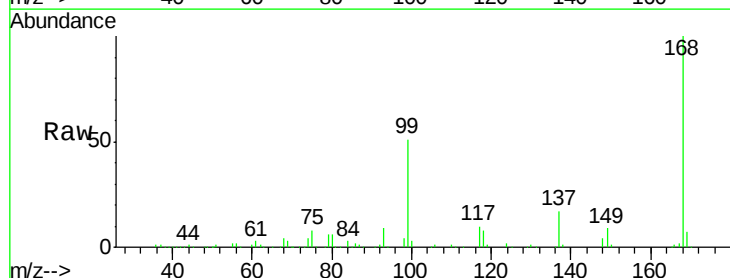
Instrument :
 MSVOA_X
 ClientSampleId :

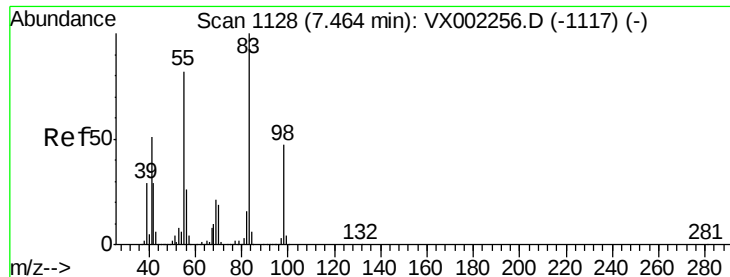
Tot Ion	75	Resp	15544
Ion Ratio	Lower	Upper	
75	100		
110	9.8	18.1	54.4#
77	0.3	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.78 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002517.D
 Acq: 13 Jun 2018 19:08

Tgt Ion	117	Resp	19320
Ion Ratio	Lower	Upper	
117	100		
119	6.3	77.4	116.0#
121	0.0	24.4	36.6#

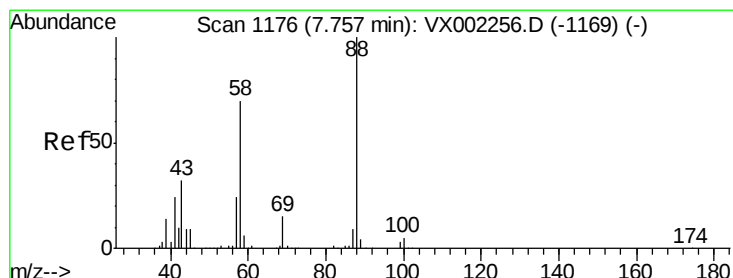
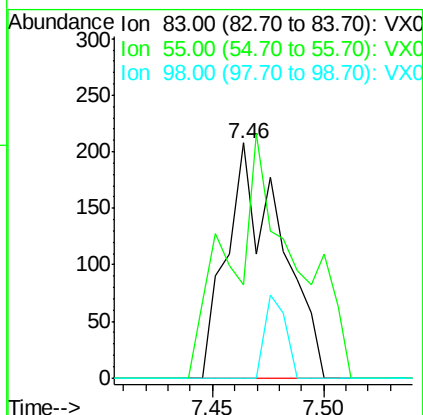
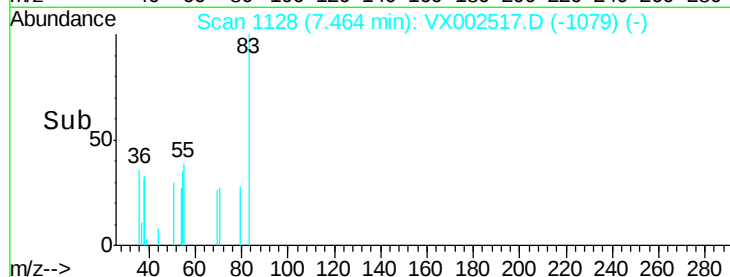
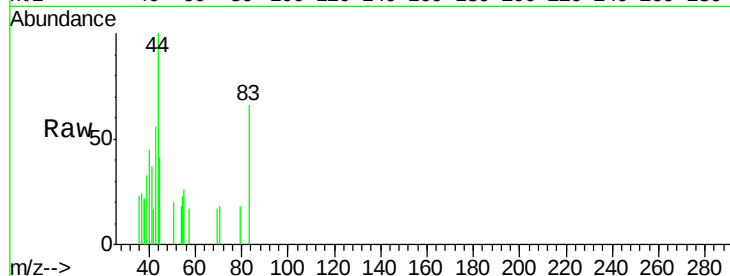




#39
Methylcyclohexane
Concen: 0.35 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

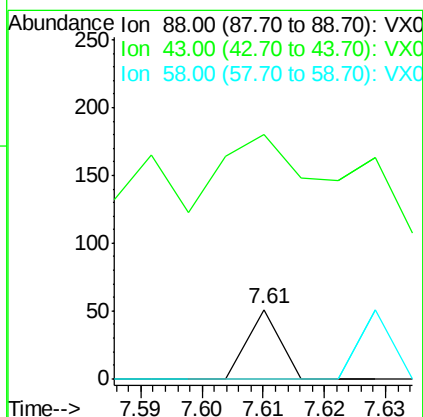
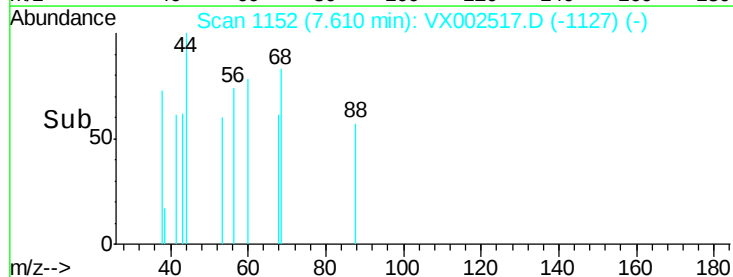
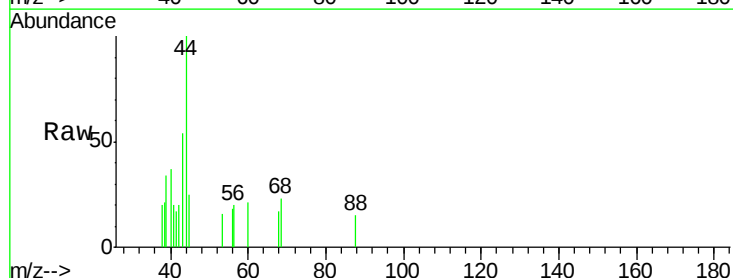
Instrument :
MSVOA_X
ClientSampled :

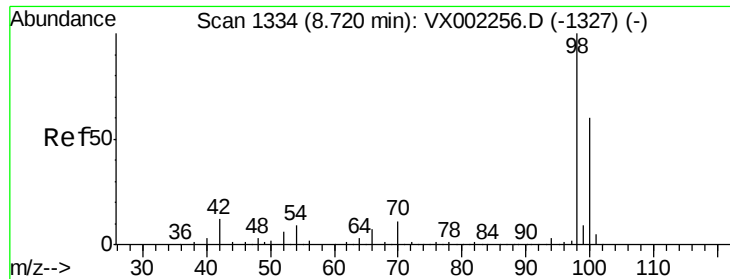
Tot Ion: 83 Resp: 348
Ion Ratio Lower Upper
83 100
55 39.4 65.4 98.0#
98 0.0 37.4 56.0#



#49
1,4-Dioxane
Concen: 0.31 ug/l
RT: 7.61 min Scan# 1152
Delta R.T. -0.15 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 100.0 57.1 85.7#

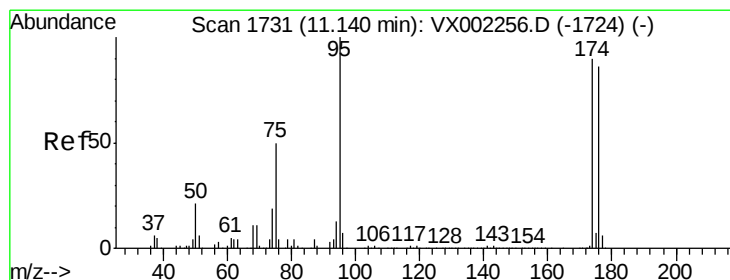
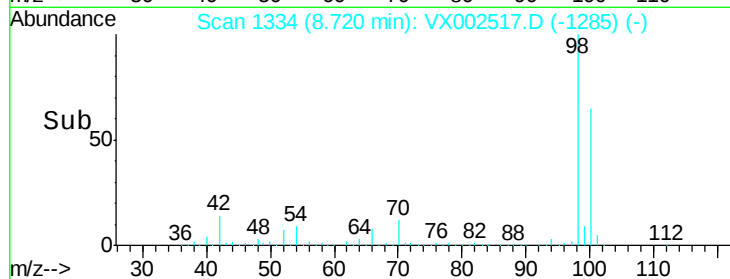
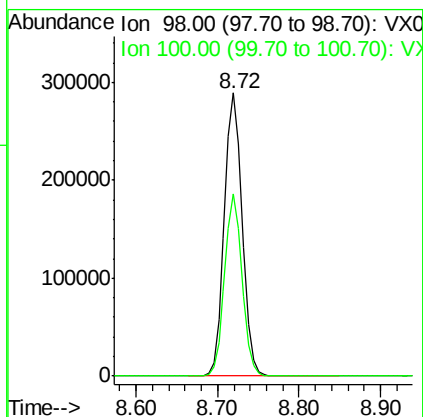
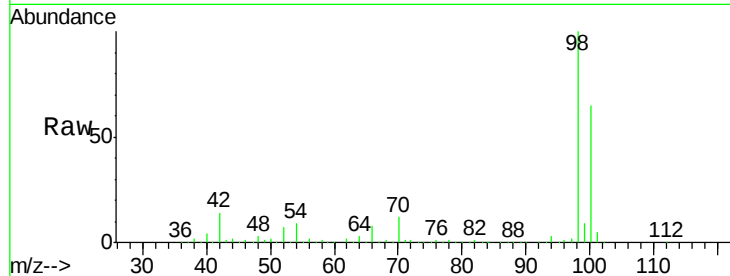




#50
Toluene-d8
Concen: 47.95 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

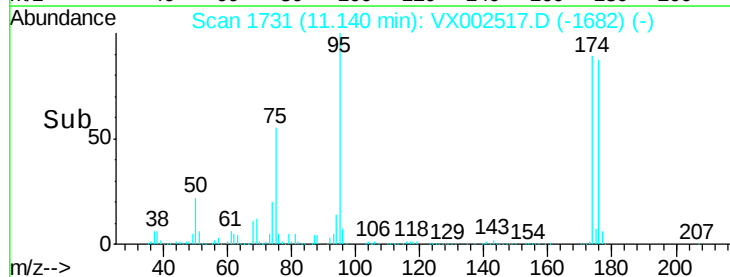
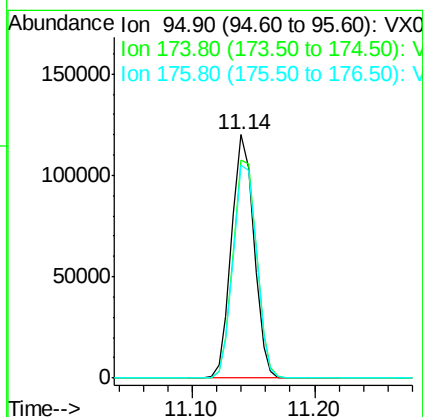
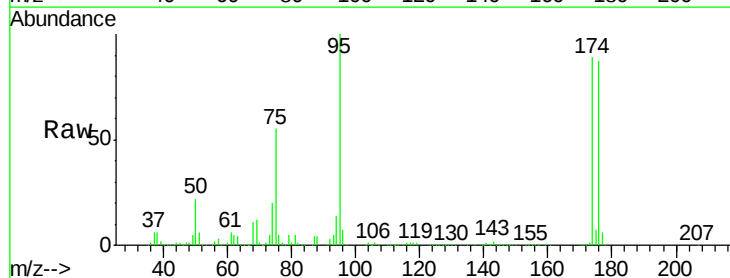
Instrument :
MSVOA_X
ClientSampleId :

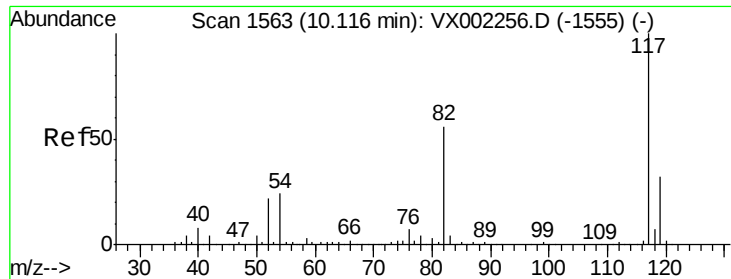
Tot Ion: 98 Resp: 438910
Ion Ratio Lower Upper
98 100
100 63.0 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.08 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Tgt Ion: 95 Resp: 152050
Ion Ratio Lower Upper
95 100
174 94.3 0.0 187.4
176 91.8 0.0 181.0

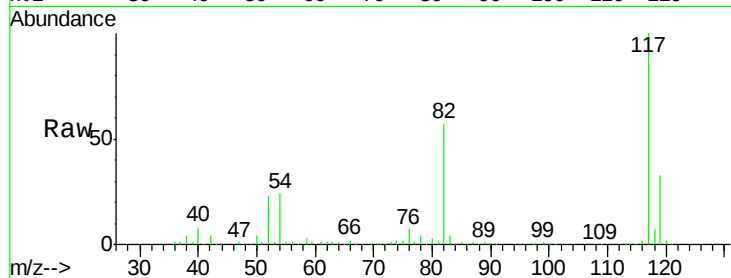




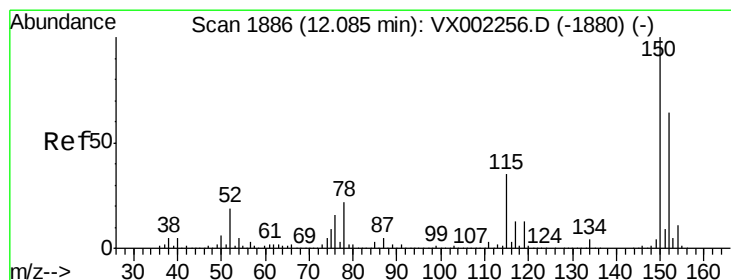
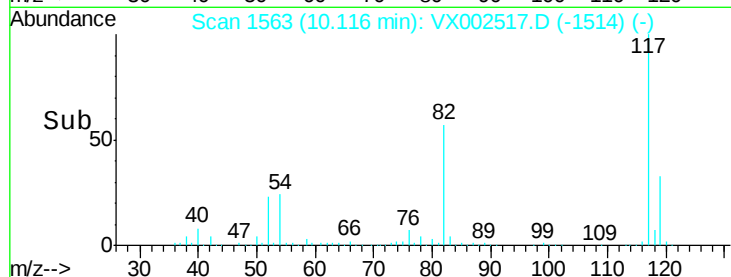
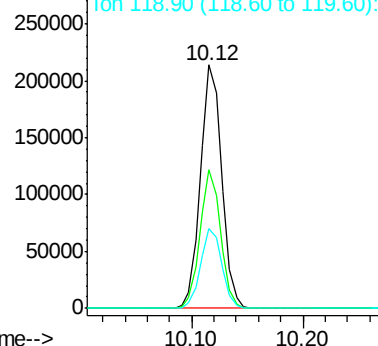
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 283269
Ion Ratio Lower Upper
117 100
82 56.7 45.0 67.4
119 32.9 25.8 38.6

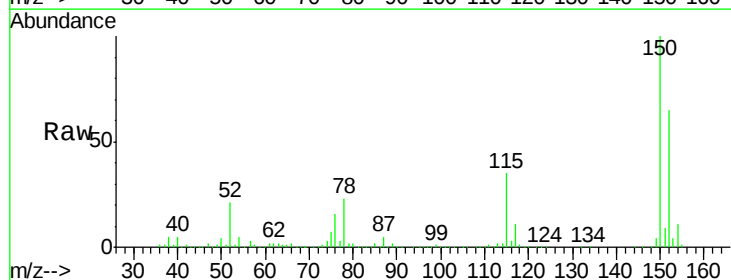


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

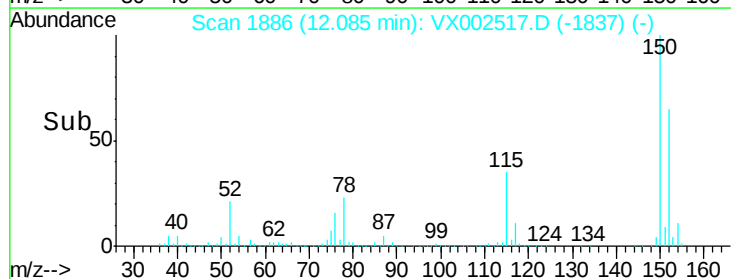
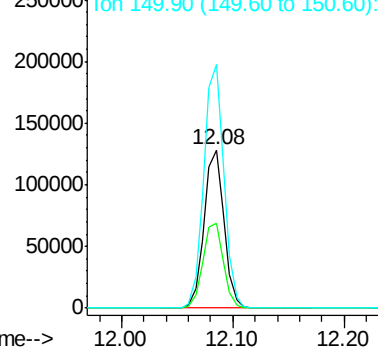


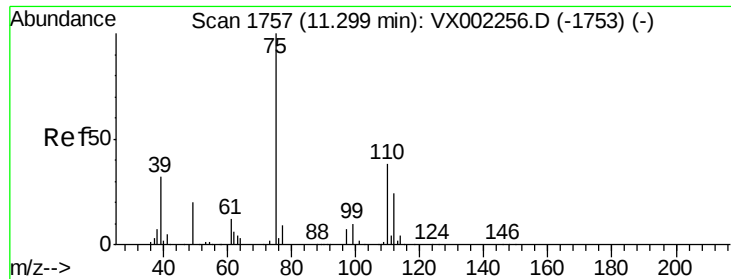
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002517.D
Acq: 13 Jun 2018 19:08

Tgt Ion:152 Resp: 157939
Ion Ratio Lower Upper
152 100
115 55.7 40.1 120.2
150 156.0 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: 24.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

Instrument :

MSVOA_X

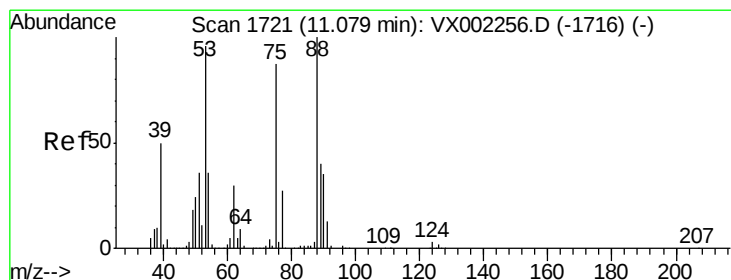
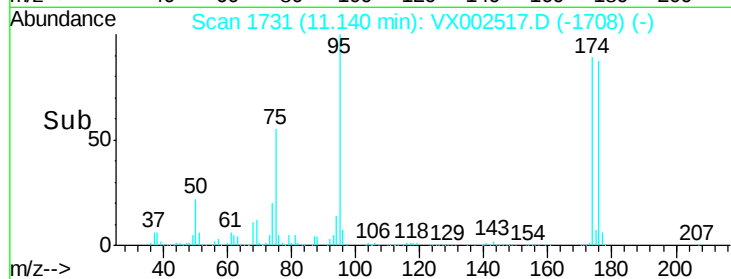
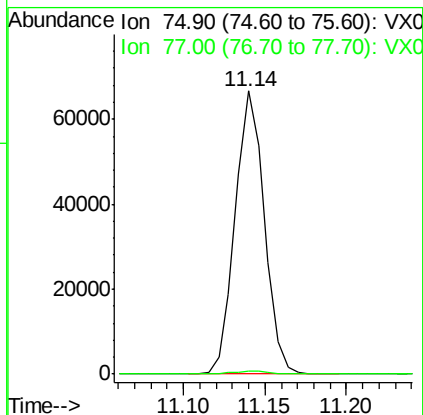
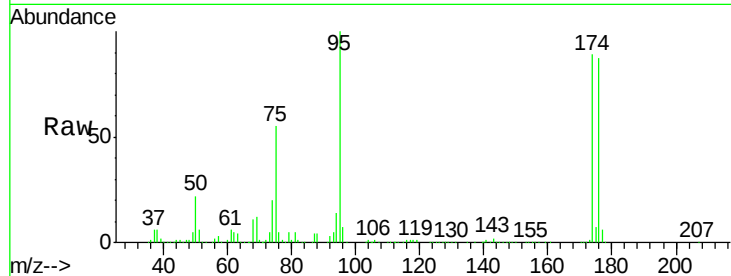
ClientSampleId :

Tot Ion: 75 Resp: 83177

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002517.D

Acq: 13 Jun 2018 19:08

Tgt Ion: 75 Resp: 83177

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

