

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002574.D
 Acq On : 15 Jun 2018 02:03
 Operator : JC/MD
 Sample : PB110227ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 03:23:13 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	226585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	329722	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	305858	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	173850	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	159362	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
35) Dibromofluoromethane	5.51	113	117634	45.37	ug/l	0.00
Spiked Amount			Recovery	=	90.74%	
50) Toluene-d8	8.72	98	471389	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
62) 4-Bromofluorobenzene	11.14	95	166885	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	

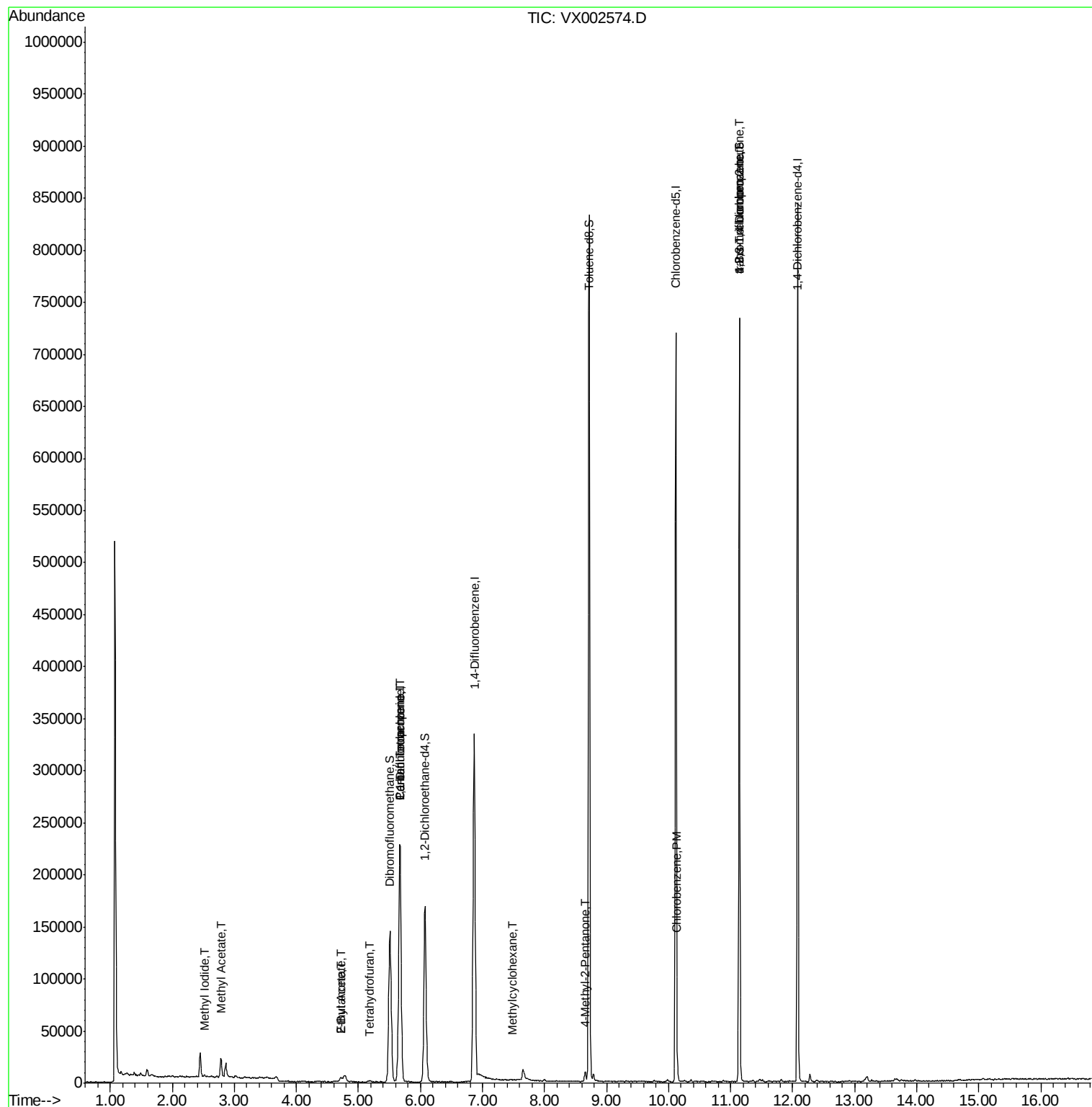
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	355	Below Cal	#	77
5) Bromomethane	1.65	94	1122	Below Cal		81
8) Diethyl Ether	2.08	74	61	Below Cal		95
10) Methyl Iodide	2.52	142	1399	0.41	ug/l	96
11) Tert butyl alcohol	3.08	59	495	Below Cal	#	73
13) Acrolein	2.31	56	208	Below Cal	#	50
15) Acrylonitrile	3.14	53	445	Below Cal	#	72
16) Acetone	2.45	43	25491	Below Cal		100
18) Methyl Acetate	2.78	43	21811	4.25	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	78	Below Cal	#	54
20) Methylene Chloride	2.86	84	6061	Below Cal		95
22) Diisopropyl ether	3.87	45	54	Below Cal	#	48
25) 2-Butanone	4.71	43	7478	3.37	ug/l	99
28) Bromochloromethane	5.02	49	25	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1330	0.93	ug/l	83
36) 1,1-Dichloropropene	5.67	75	15707	4.53	ug/l	51
37) Ethyl Acetate	4.71	43	7478	1.79	ug/l	70
38) Carbon Tetrachloride	5.67	117	21034	5.80	ug/l	15
39) Methylcyclohexane	7.47	83	281	0.33	ug/l	57
51) 4-Methyl-2-Pentanone	8.65	43	5512	1.25	ug/l	100
65) Chlorobenzene	10.14	112	2939	0.39	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	92093	24.14	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92093	84.62	ug/l	7

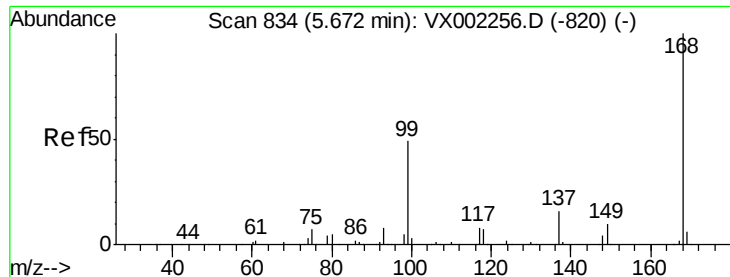
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

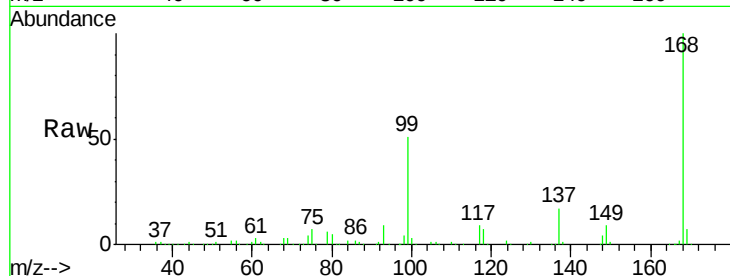
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 226585

Ion Ratio Lower Upper

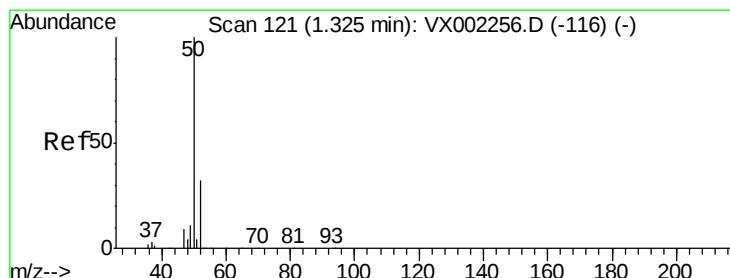
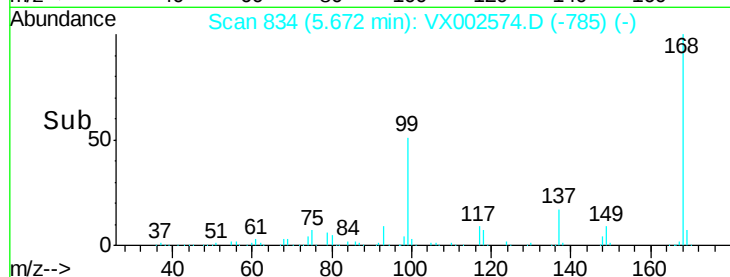
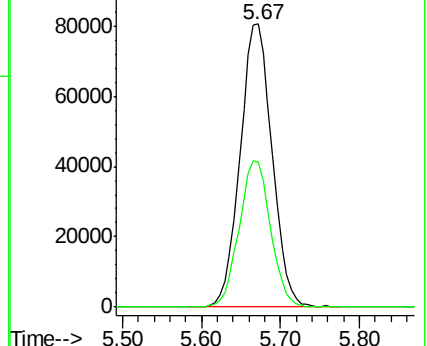
168 100

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



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002574.D

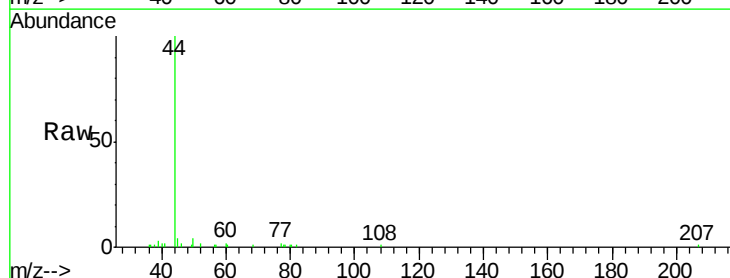
Acq: 15 Jun 2018 02:03

Tgt Ion: 50 Resp: 355

Ion Ratio Lower Upper

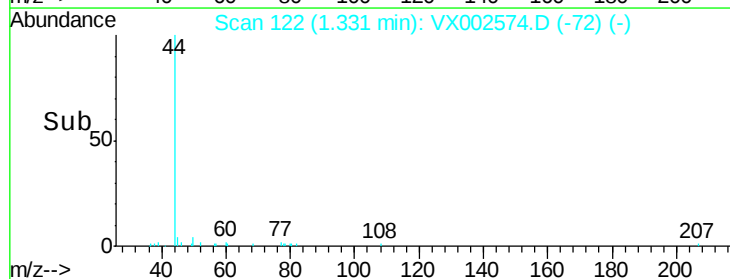
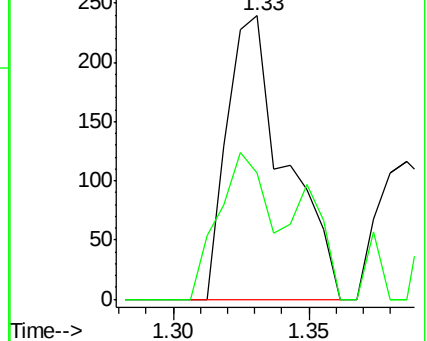
50 100

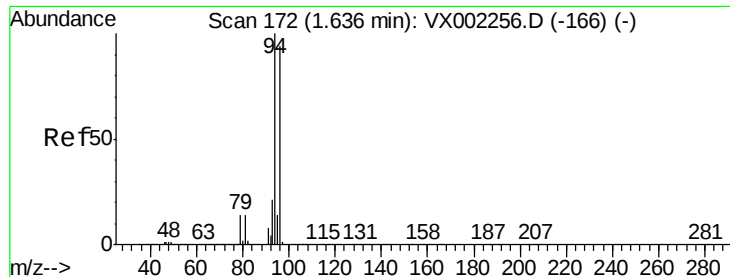
52 44.8 25.7 38.5#



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: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

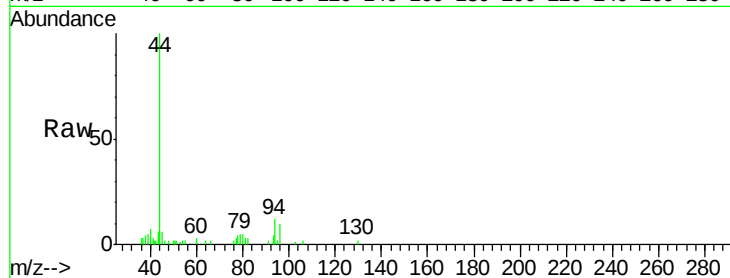
ClientSampleId :

Tot Ion: 94 Resp: 1122

Ion Ratio Lower Upper

94 100

96 74.9 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

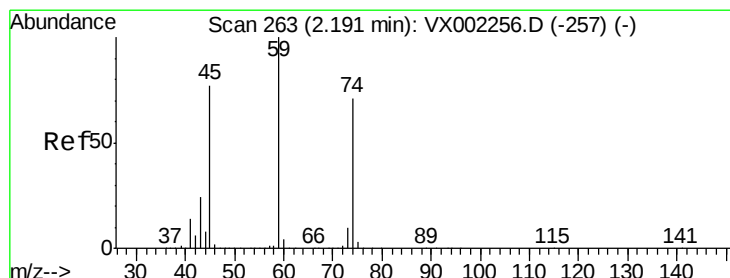
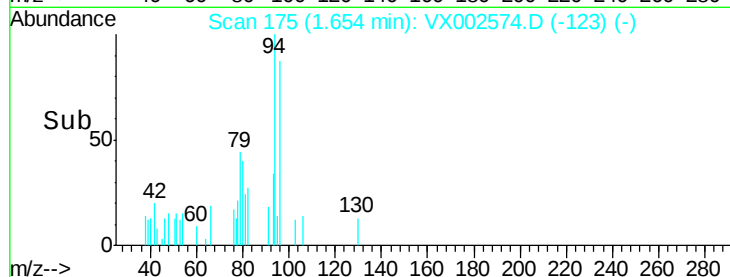
200

100

0

1.60 1.65 1.70

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.08 min Scan# 245

Delta R.T. -0.11 min

Lab File: VX002574.D

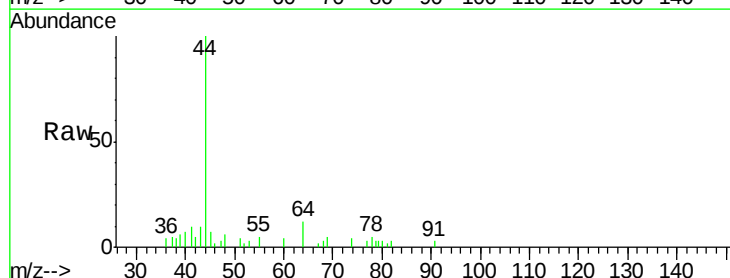
Acq: 15 Jun 2018 02:03

Tgt Ion: 74 Resp: 61

Ion Ratio Lower Upper

74 100

45 111.5 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

400

300

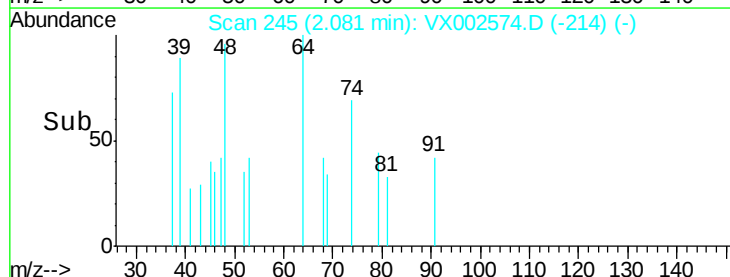
200

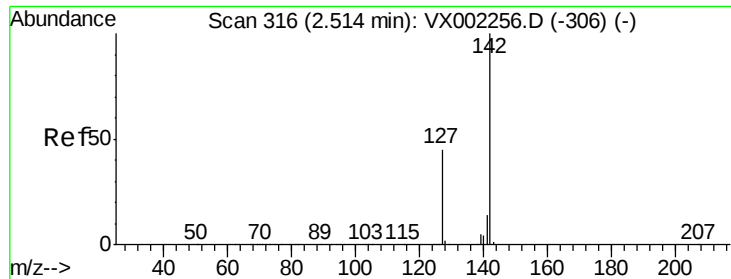
100

0

2.06 2.08 2.10

Time-->

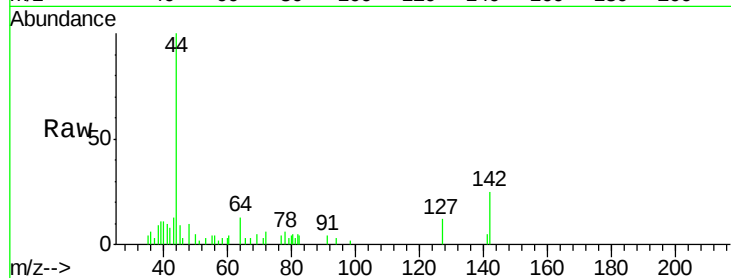




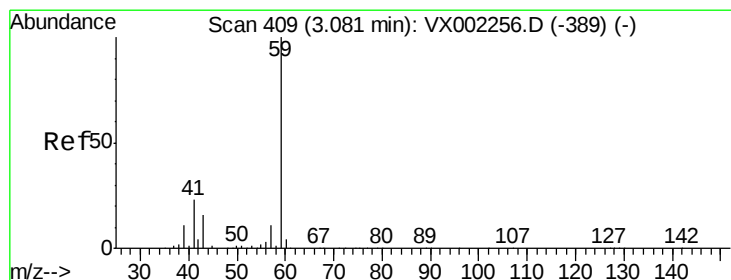
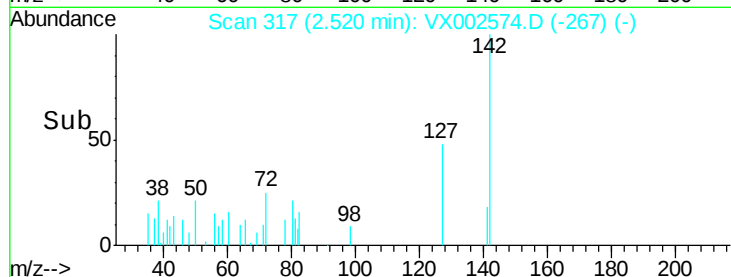
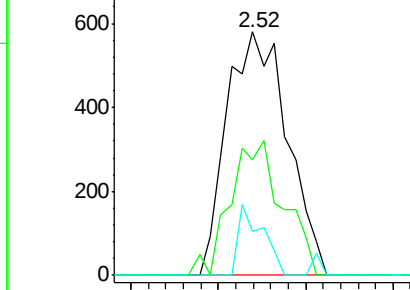
#10
Methyl Iodide
Concen: 0.41 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 1399
Ion Ratio Lower Upper
142 100
127 48.1 36.6 55.0
141 11.7 11.3 16.9

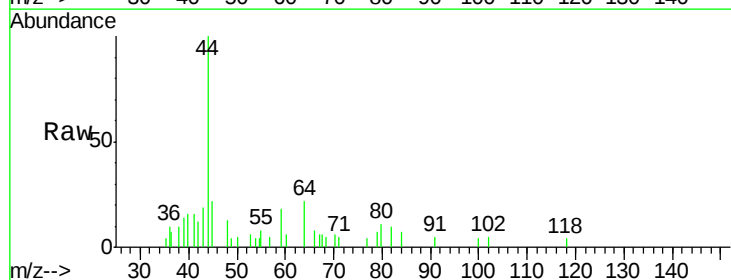


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

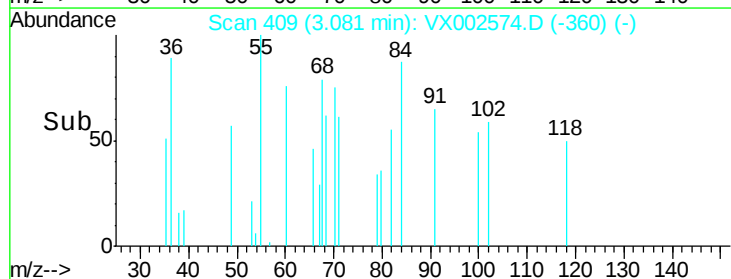
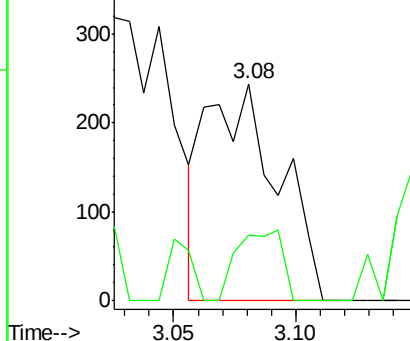


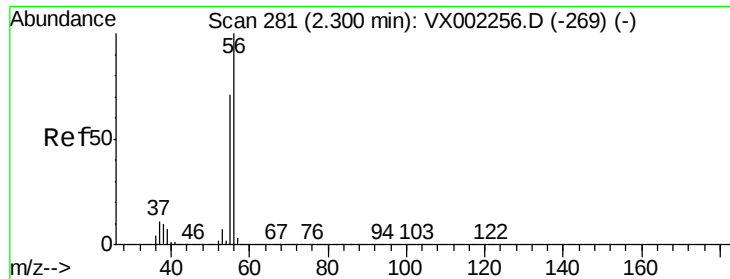
#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Tgt Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 20.4 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: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

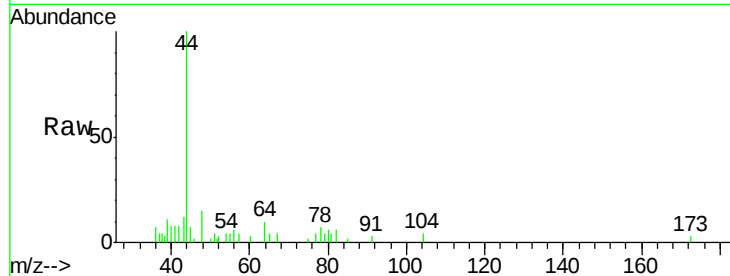
ClientSampled :

Tot Ion: 56 Resp: 208

Ion Ratio Lower Upper

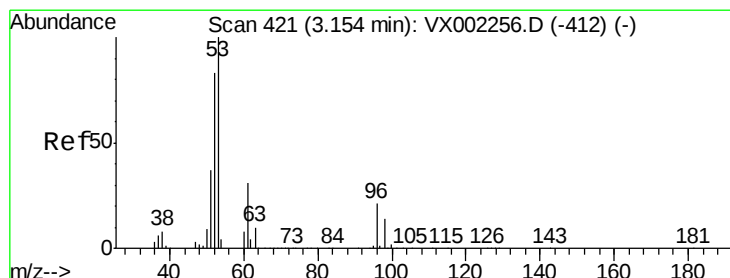
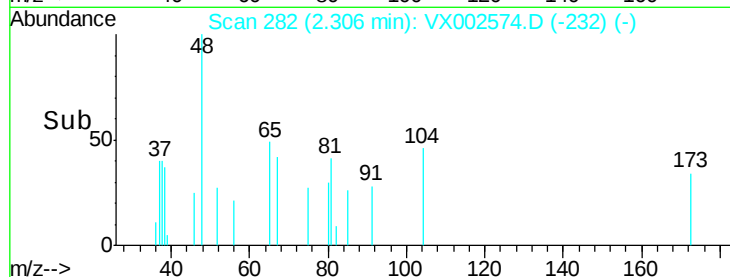
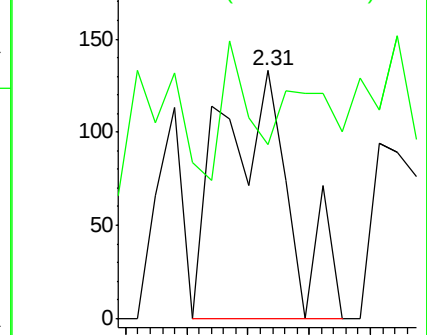
56 100

55 29.8 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 418

Delta R.T. -0.02 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

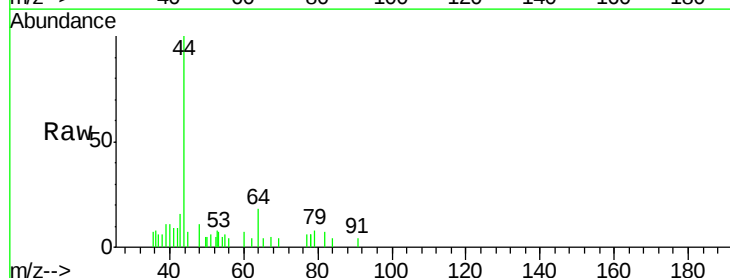
Tgt Ion: 53 Resp: 445

Ion Ratio Lower Upper

53 100

52 48.1 66.7 100.1#

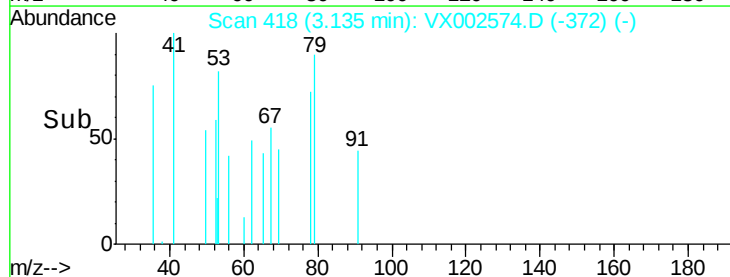
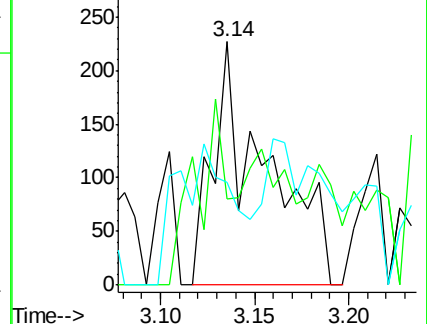
51 34.8 29.9 44.9

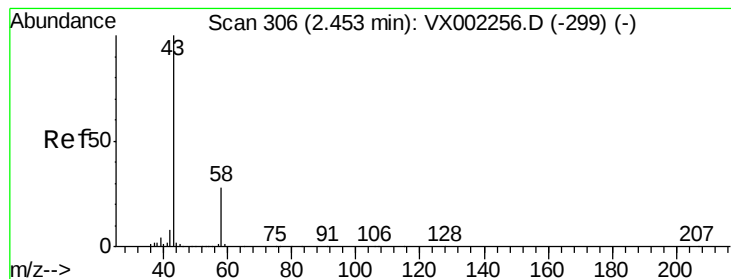


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

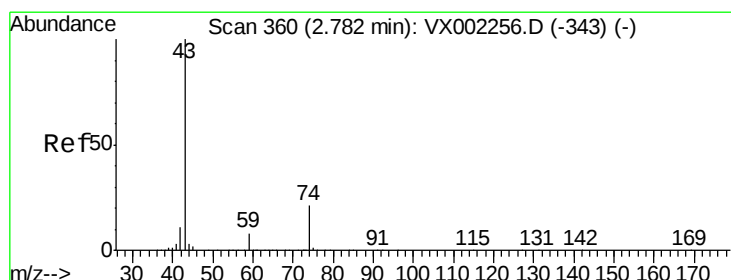
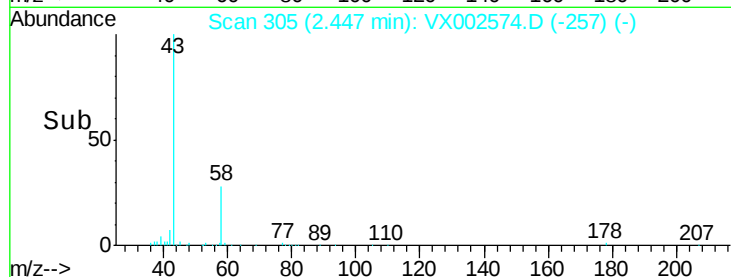
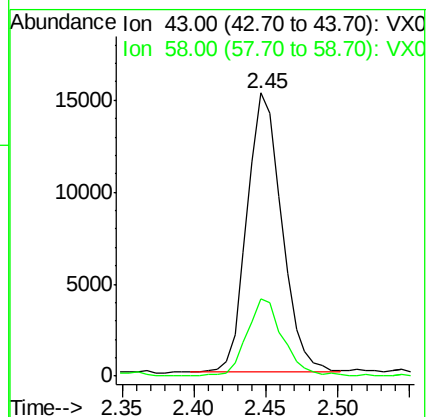
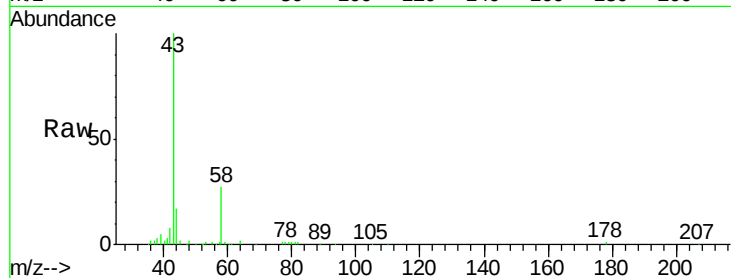
ClientSampleId :

Tot Ion: 43 Resp: 25491

Ion Ratio Lower Upper

43 100

58 27.7 22.1 33.1



#18

Methyl Acetate

Concen: 4.25 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002574.D

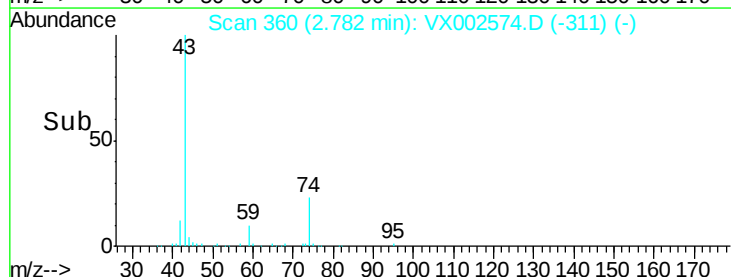
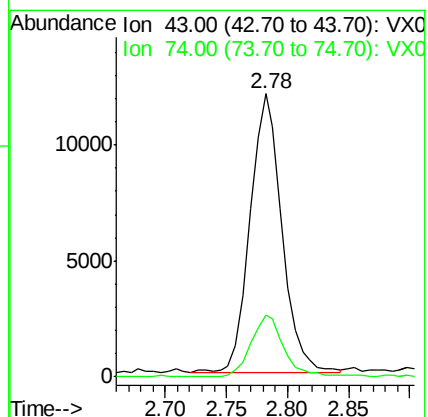
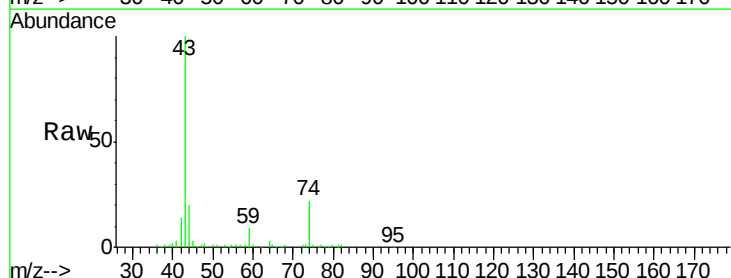
Acq: 15 Jun 2018 02:03

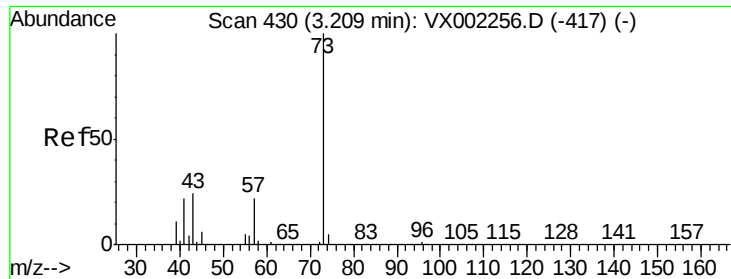
Tgt Ion: 43 Resp: 21811

Ion Ratio Lower Upper

43 100

74 22.9 16.7 25.1

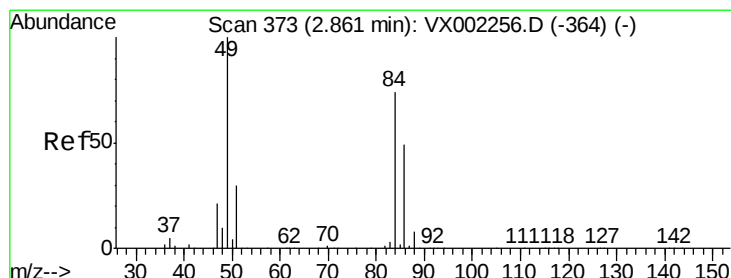
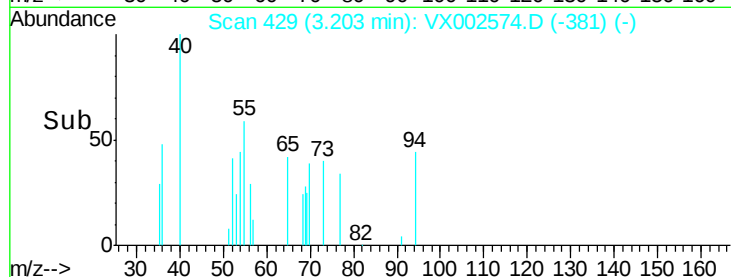
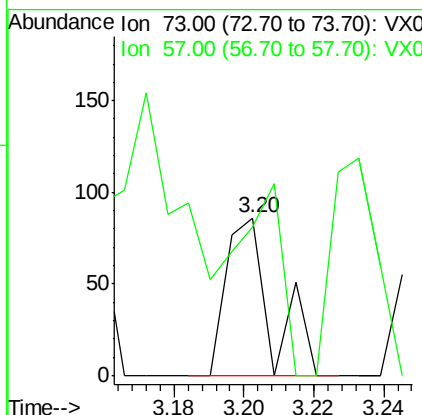
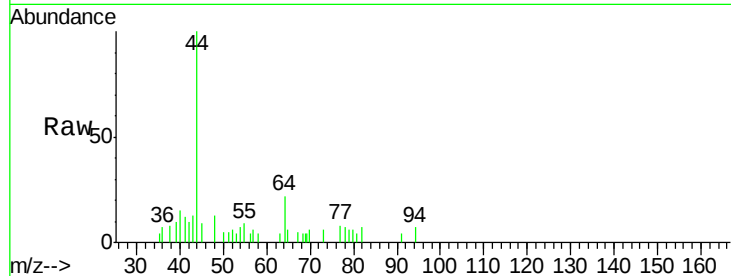




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

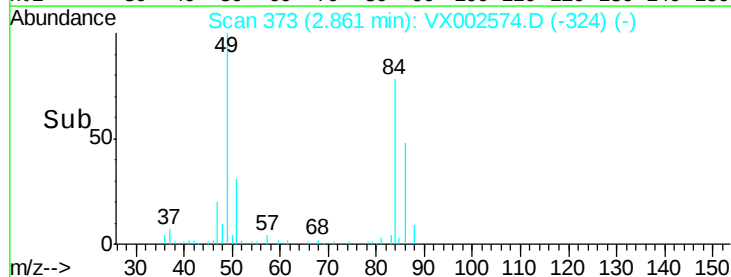
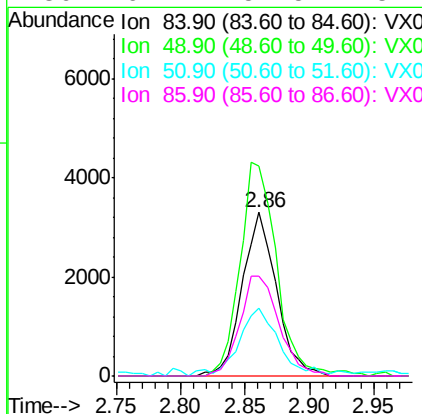
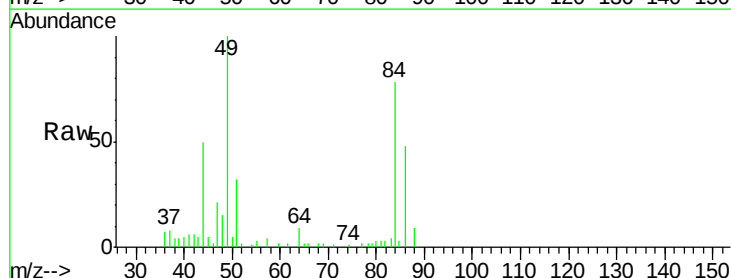
Instrument :
MSVOA_X
ClientSampled :

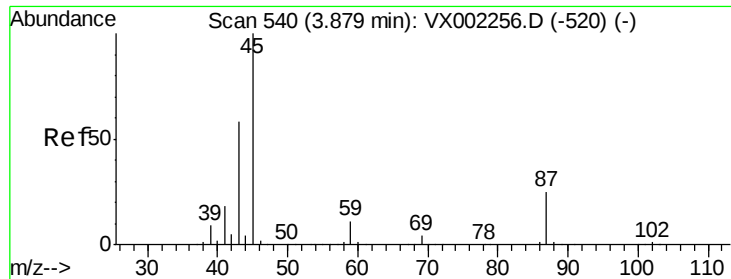
Tot Ion: 73 Resp: 78
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Tgt Ion: 84 Resp: 6061
Ion Ratio Lower Upper
84 100
49 128.0 107.8 161.6
51 41.4 32.8 49.2
86 61.2 52.5 78.7



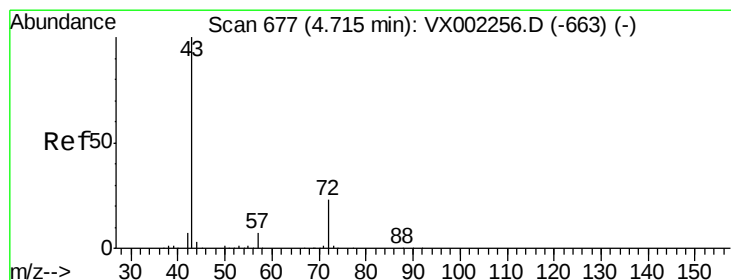
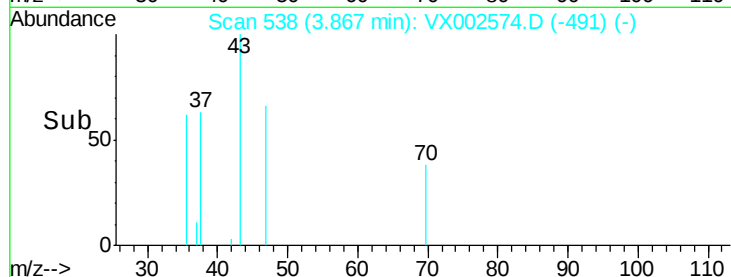
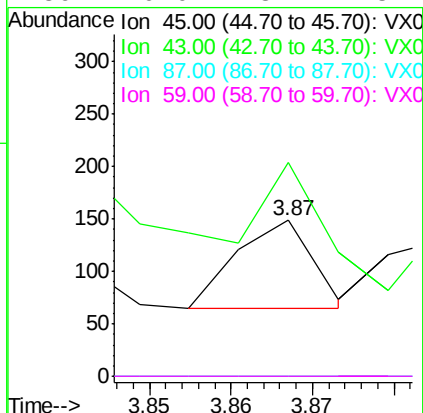
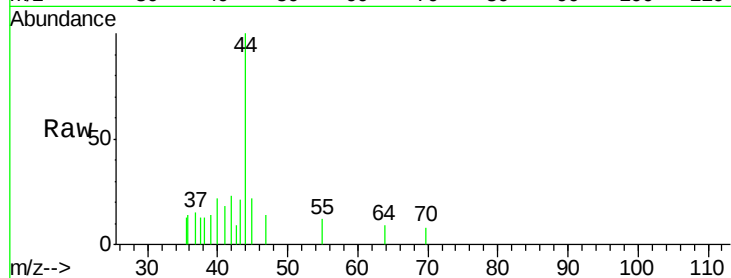


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Instrument :
MSVOA_X
ClientSampled :

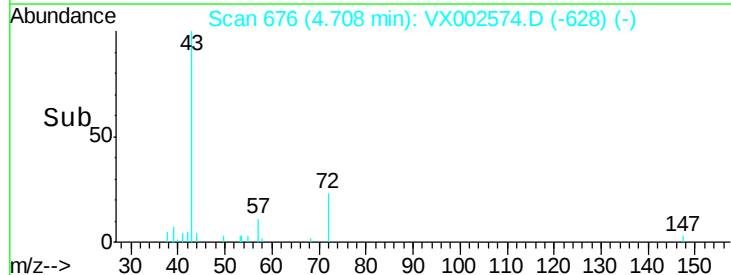
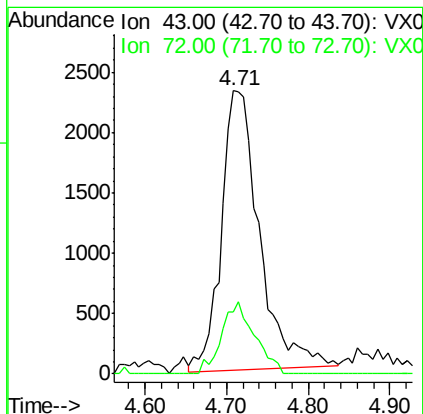
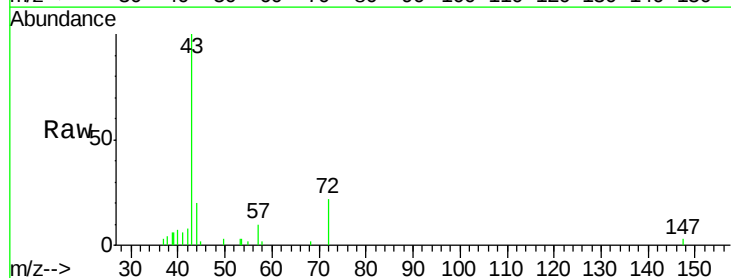
Tot Ion	Ratio	Lower	Upper
45	100		
43	101.2	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

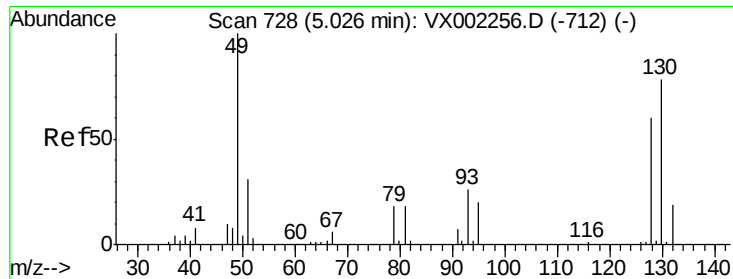


#25

2-Butanone
Concen: 3.37 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.6	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

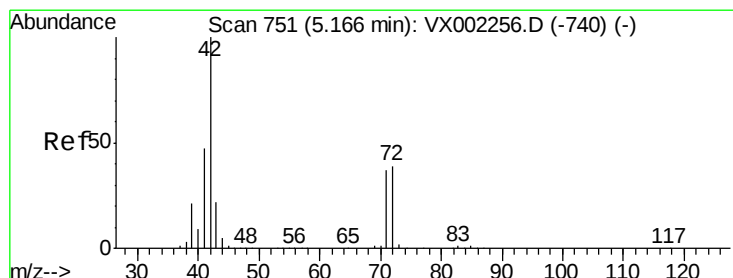
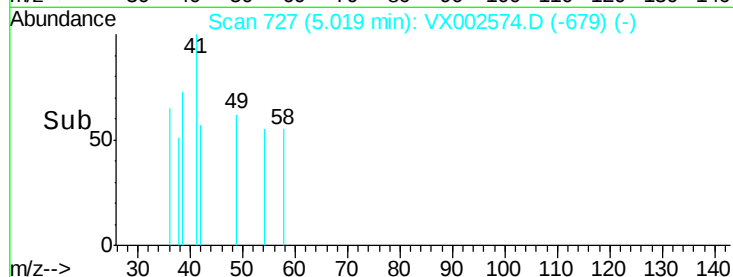
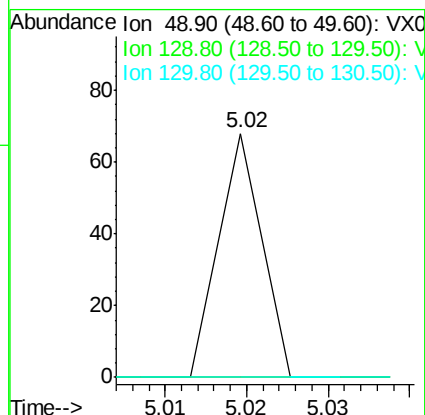
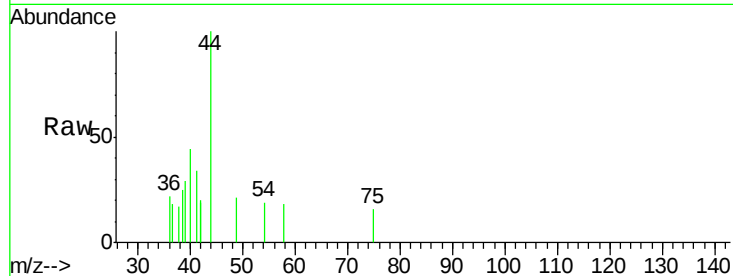
Delta R.T. -0.01 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 25
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.93 ug/l

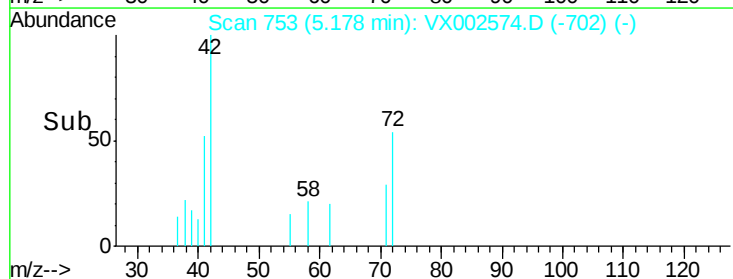
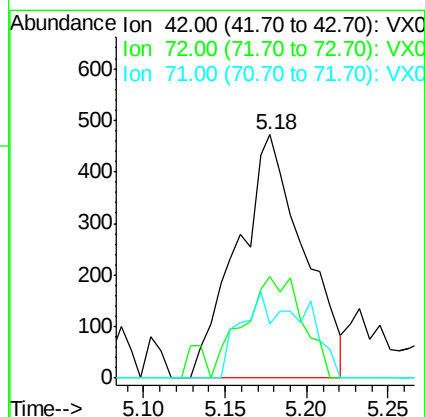
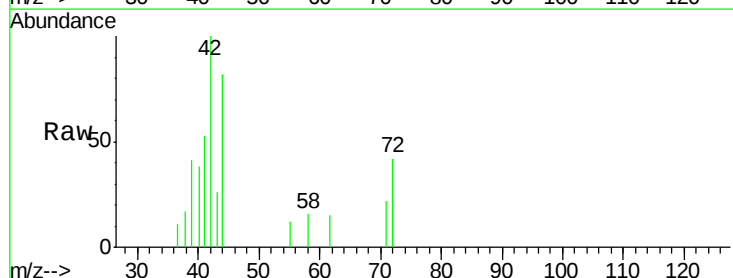
RT: 5.18 min Scan# 753

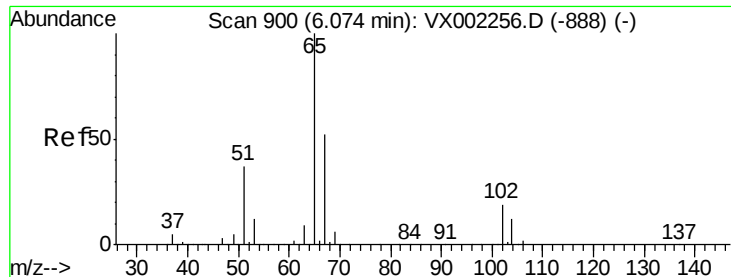
Delta R.T. 0.01 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Tgt Ion: 42 Resp: 1330
Ion Ratio Lower Upper
42 100
72 37.3 32.0 48.0
71 19.7 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 49.12 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

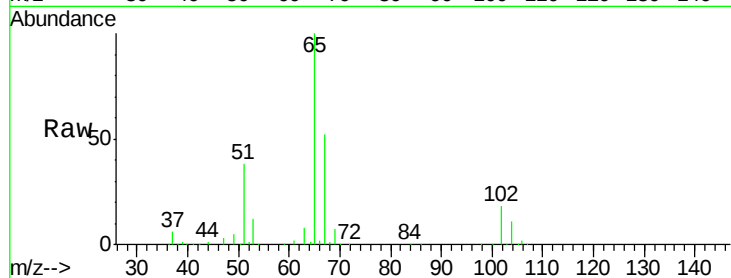
ClientSampleId :

Tot Ion: 65 Resp: 159362

Ion Ratio Lower Upper

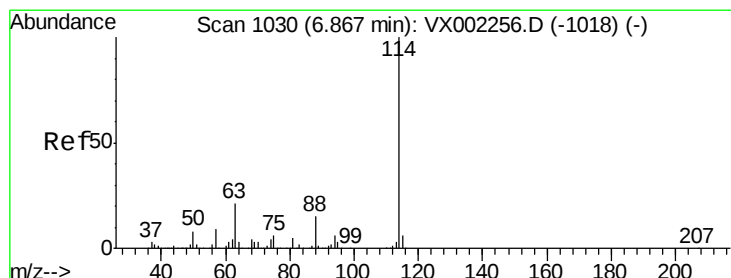
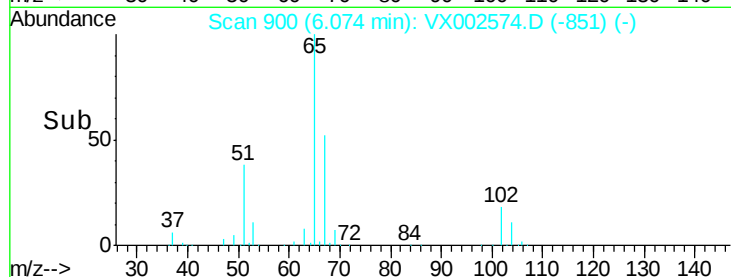
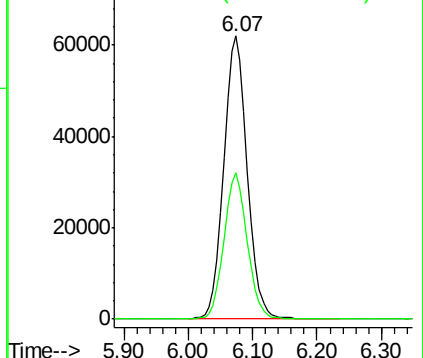
65 100

67 51.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

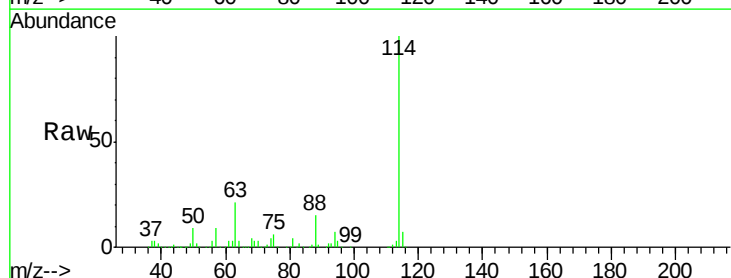
Tgt Ion: 114 Resp: 329722

Ion Ratio Lower Upper

114 100

63 20.9 0.0 41.4

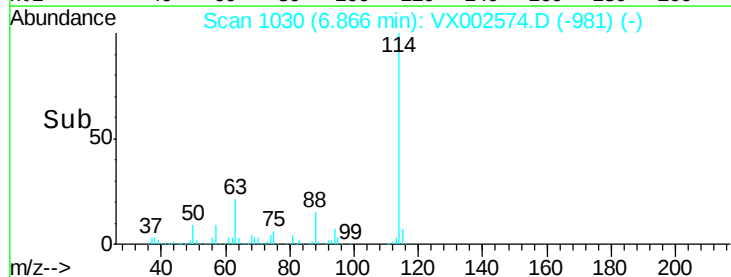
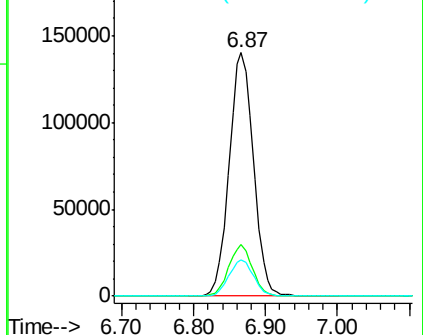
88 14.8 0.0 30.0

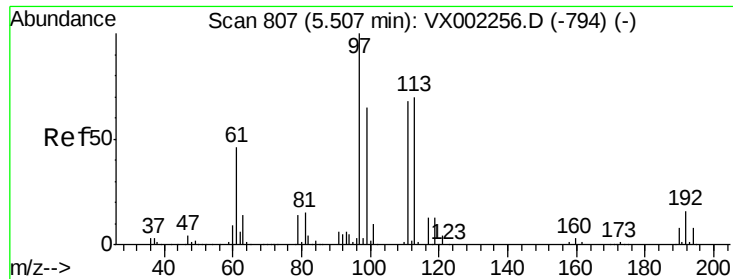


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 45.37 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

ClientSampled :

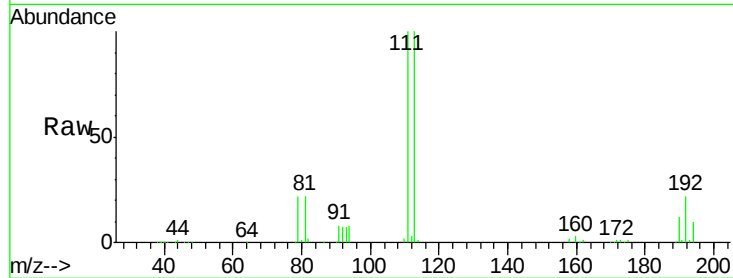
Tot Ion:113 Resp: 117634

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

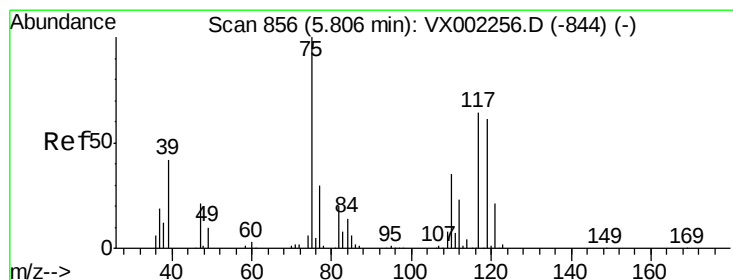
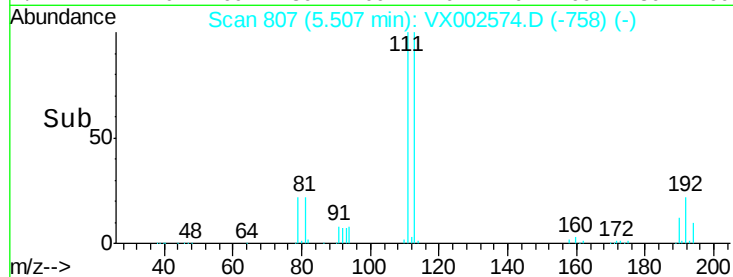
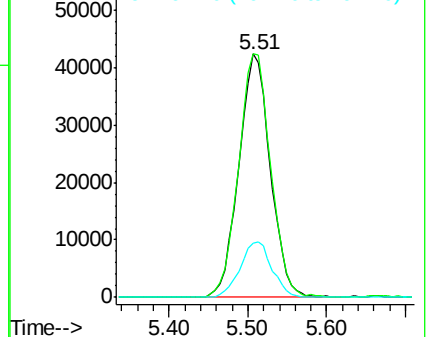
192 23.2 19.1 28.7



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: 4.53 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

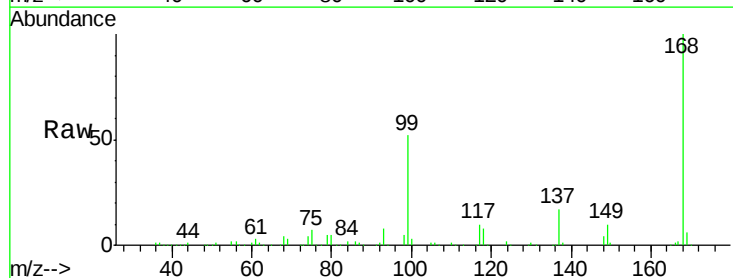
Tgt Ion: 75 Resp: 15707

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.4#

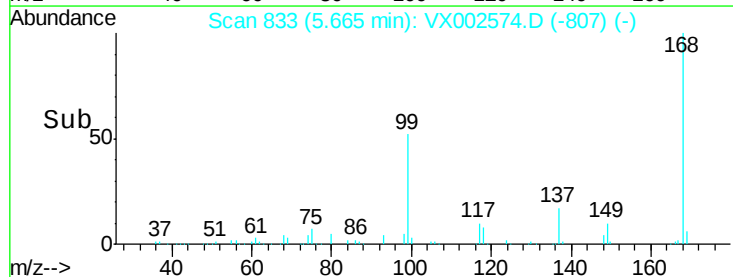
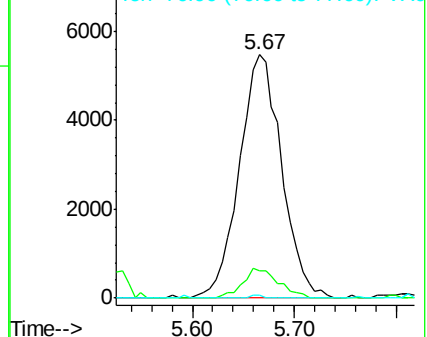
77 0.3 24.3 36.5#

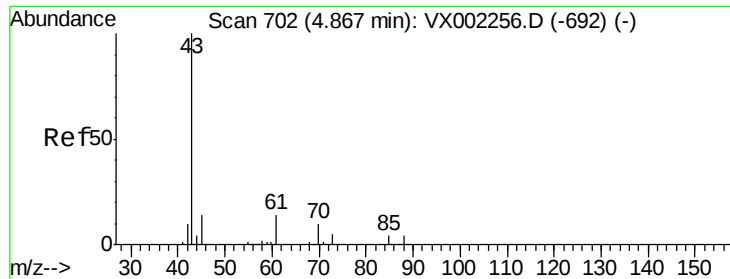


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

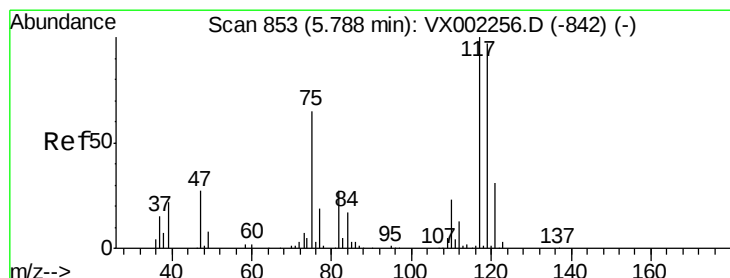
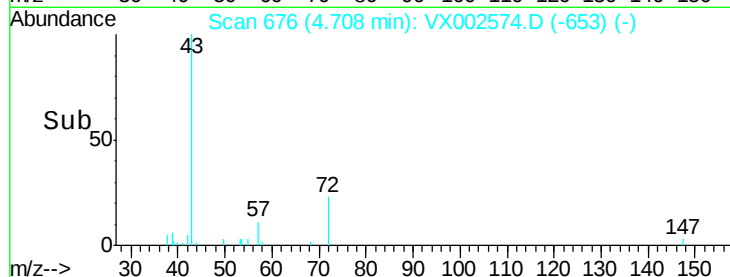
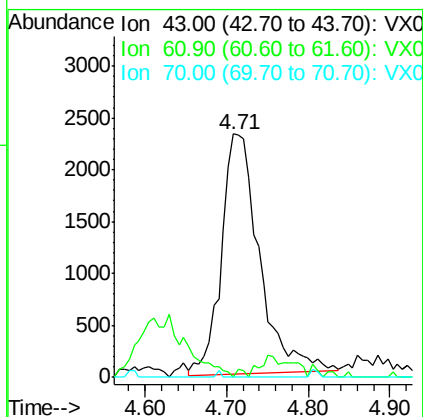
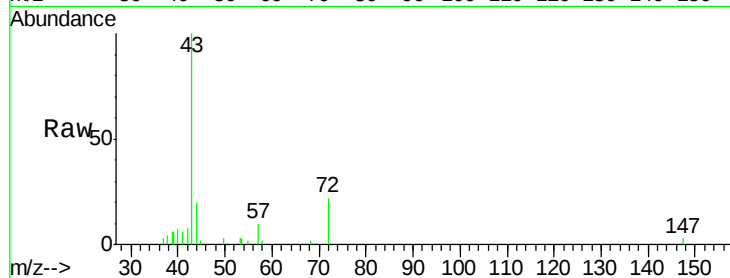




#37
Ethyl Acetate
Concen: 1.79 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.16 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

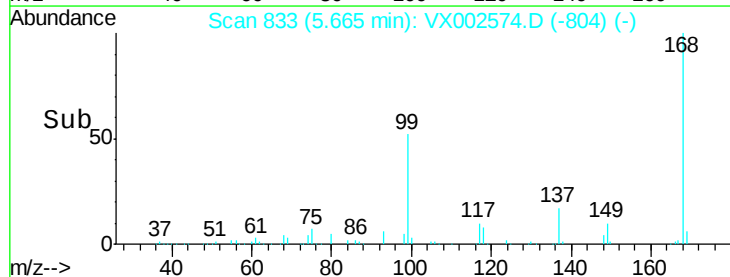
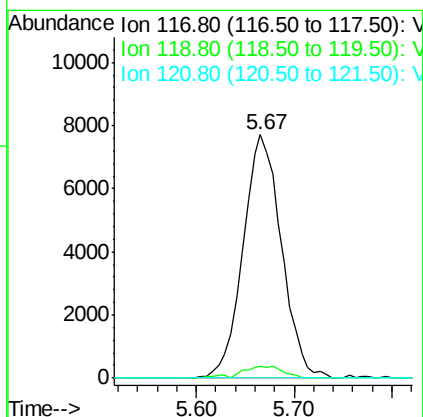
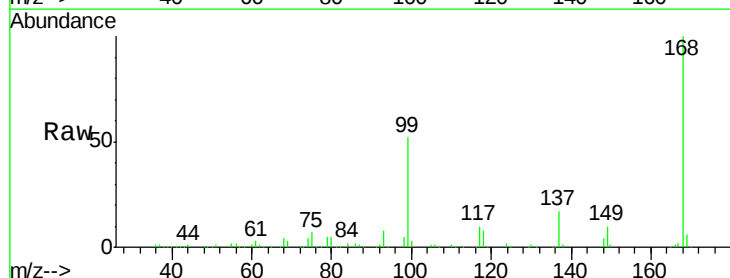
Instrument :
MSVOA_X
ClientSampleId :

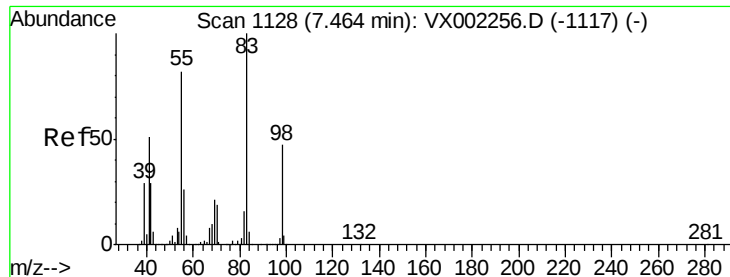
Tot Ion: 43 Resp: 7478
Ion Ratio Lower Upper
43 100
61 0.0 10.4 15.6#
70 0.3 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 5.80 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Tgt Ion: 117 Resp: 21034
Ion Ratio Lower Upper
117 100
119 4.9 77.4 116.0#
121 0.0 24.4 36.6#

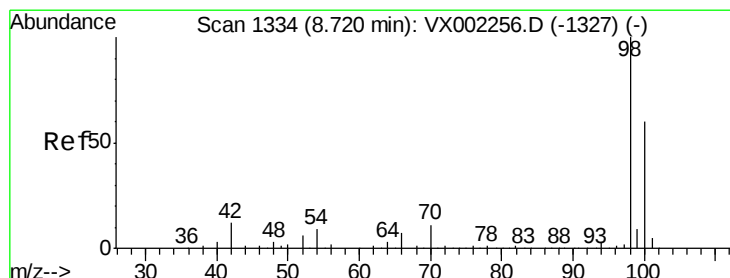
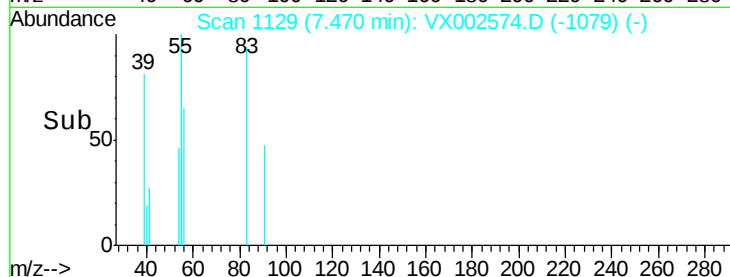
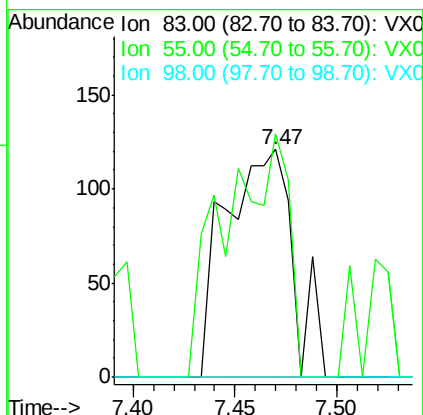
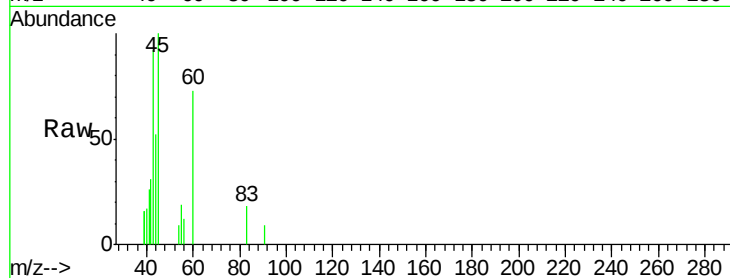




#39
Methylcyclohexane
Concen: 0.33 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

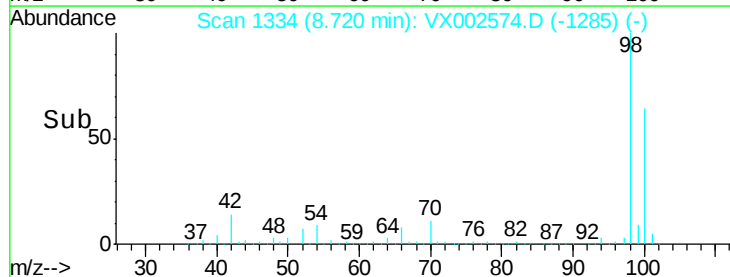
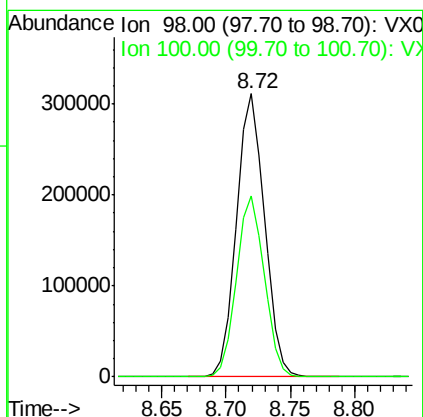
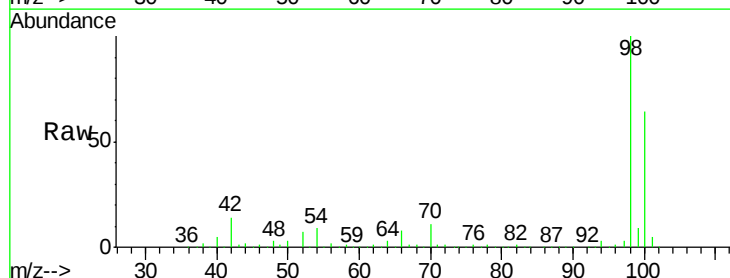
Instrument :
MSVOA_X
ClientSampleId :

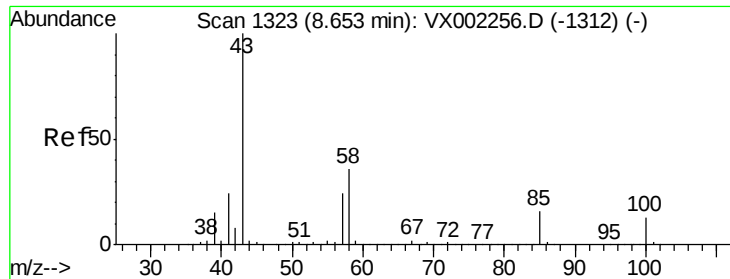
Tot Ion: 83 Resp: 281
Ion Ratio Lower Upper
83 100
55 106.6 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 47.43 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Tgt Ion: 98 Resp: 471389
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.25 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

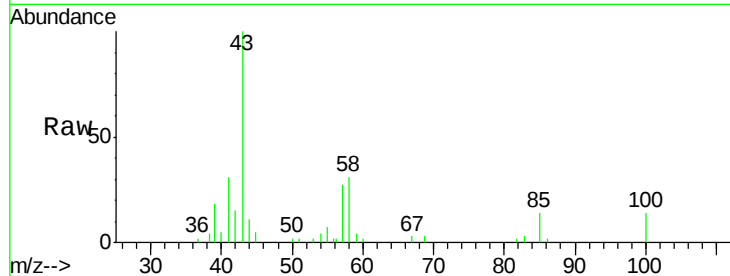
ClientSampleId :

Tot Ion: 43 Resp: 5512

Ion Ratio Lower Upper

43 100

58 35.6 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.65

3000

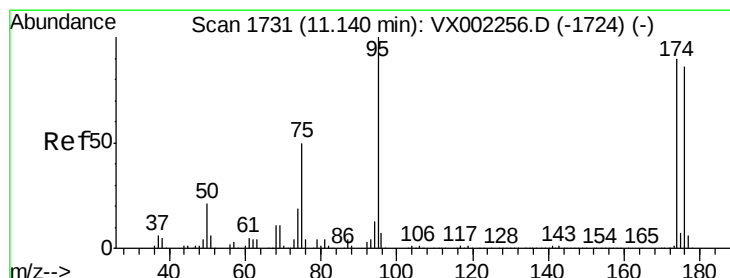
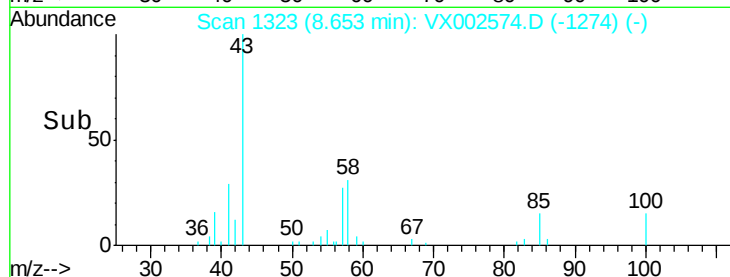
2000

1000

0

8.60 8.65 8.70

Time-->



#62

4-Bromofluorobenzene

Concen: 43.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

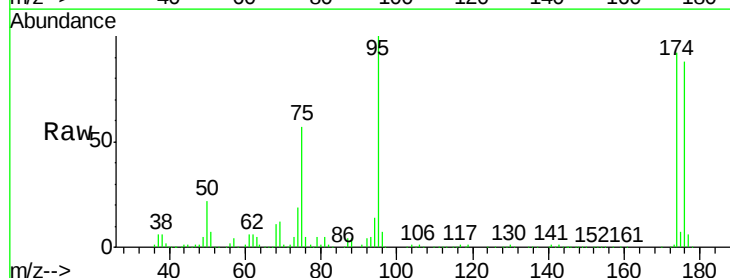
Tgt Ion: 95 Resp: 166885

Ion Ratio Lower Upper

95 100

174 95.5 0.0 187.4

176 91.2 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

11.14

150000

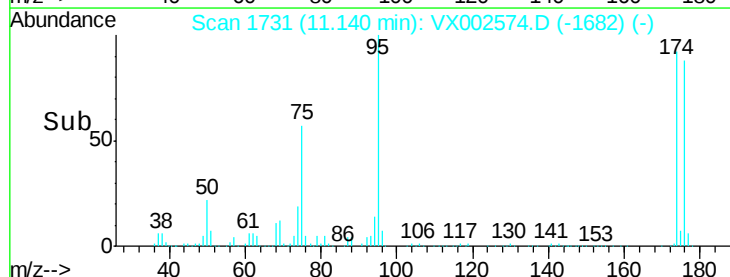
100000

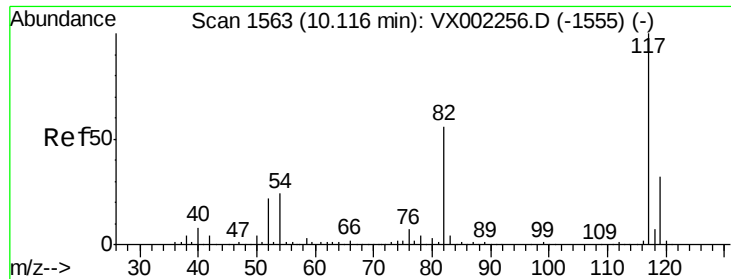
50000

0

11.10 11.20

Time-->

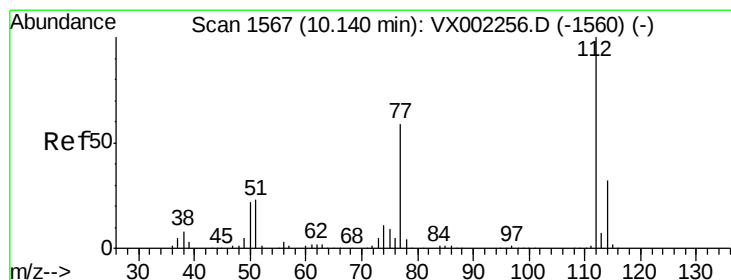
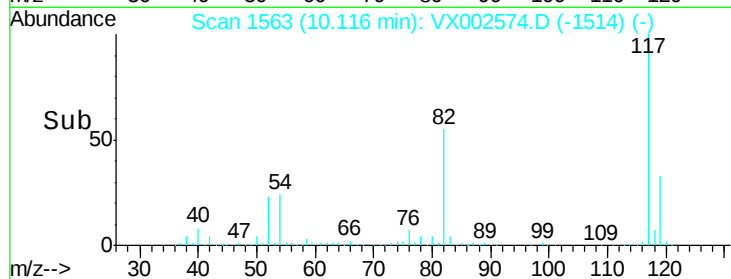
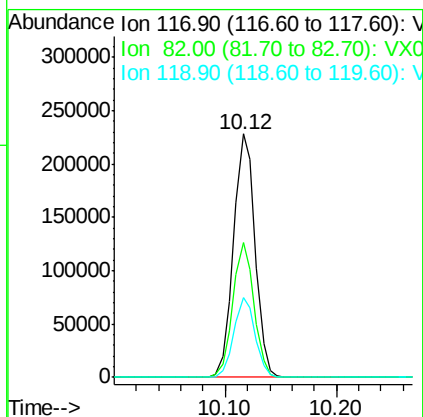
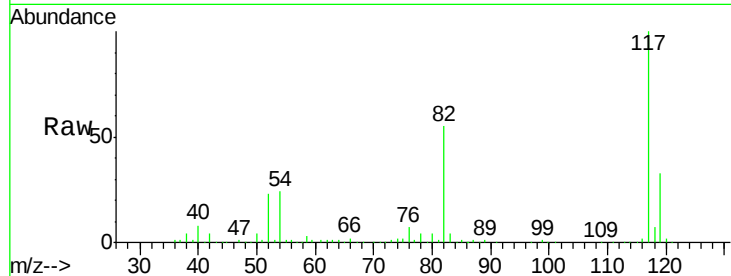




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

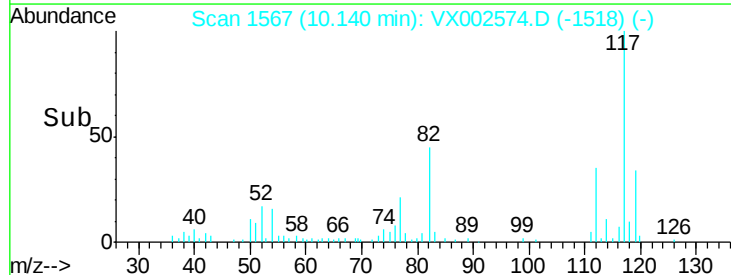
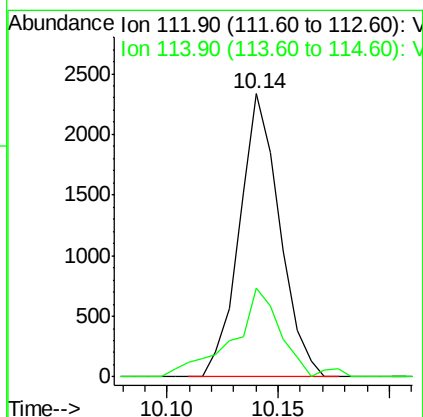
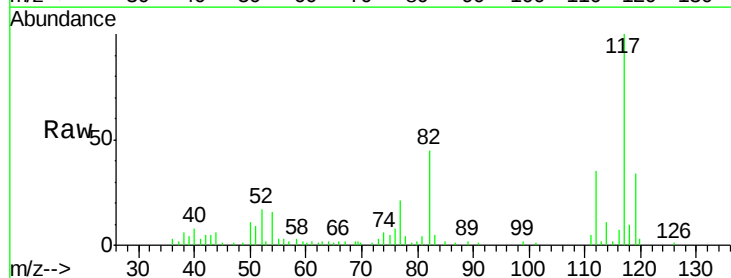
Instrument :
MSVOA_X
ClientSampleId :

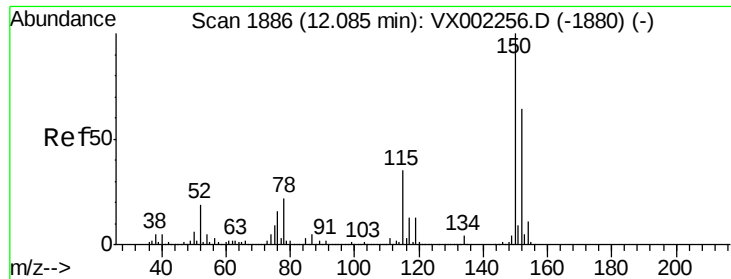
Tot Ion:117 Resp: 305858
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 33.0 25.8 38.6



#65
Chlorobenzene
Concen: 0.39 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002574.D
Acq: 15 Jun 2018 02:03

Tgt Ion:112 Resp: 2939
Ion Ratio Lower Upper
112 100
114 28.5 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

ClientSampleId :

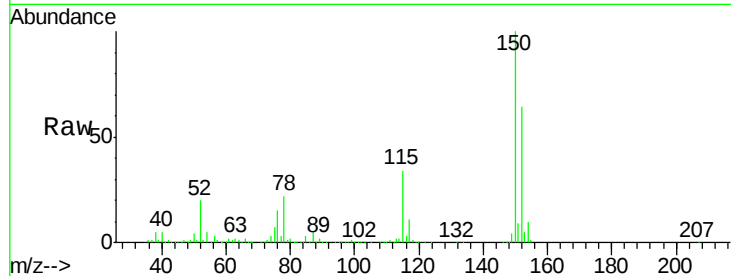
Tot Ion:152 Resp: 173850

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

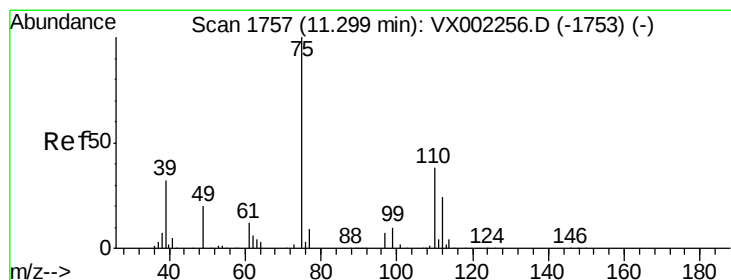
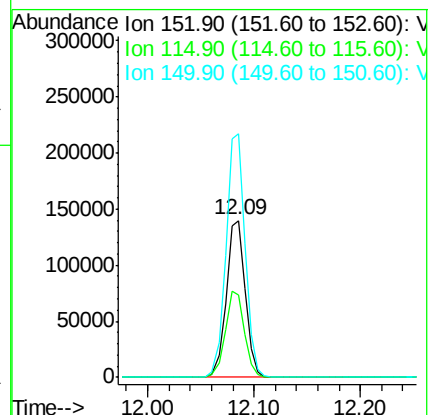
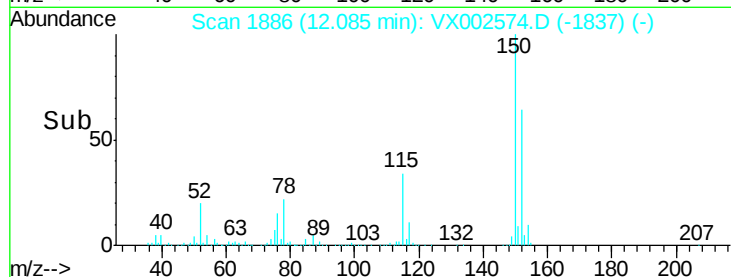
150 156.6 0.0 347.2



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: 24.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002574.D

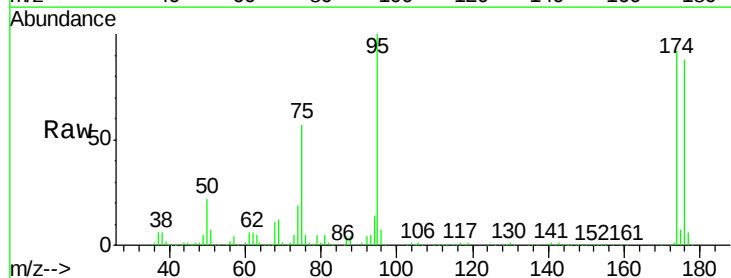
Acq: 15 Jun 2018 02:03

Tgt Ion: 75 Resp: 92093

Ion Ratio Lower Upper

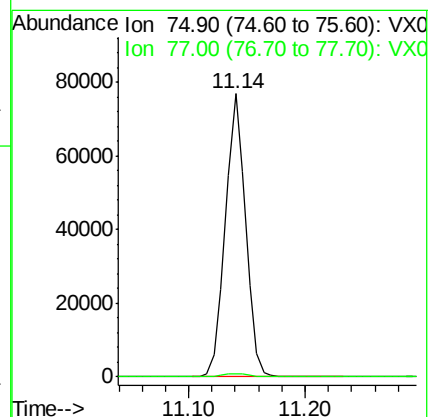
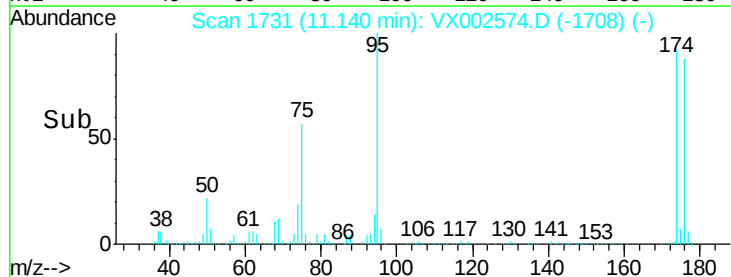
75 100

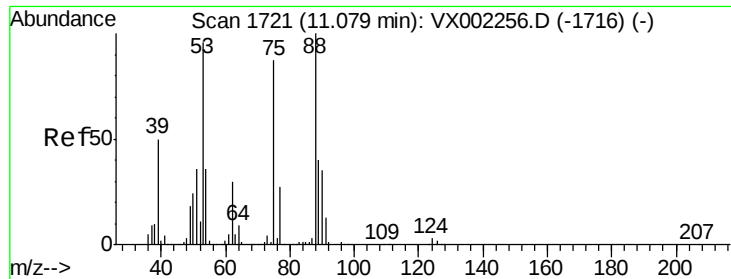
77 1.2 22.8 68.3#



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: 84.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002574.D

Acq: 15 Jun 2018 02:03

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 92093

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

