

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062119\
 Data File : VX010385.D
 Acq On : 21 Jun 2019 15:25
 Operator : JC/SP
 Sample : K3473-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Jun 21 23:12:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	281973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	430365	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	386289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	177992	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	130970	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
35) Dibromofluoromethane	5.50	113	131707	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
50) Toluene-d8	8.71	98	505045	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	11.13	95	167999	46.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.38%	

Target Compounds

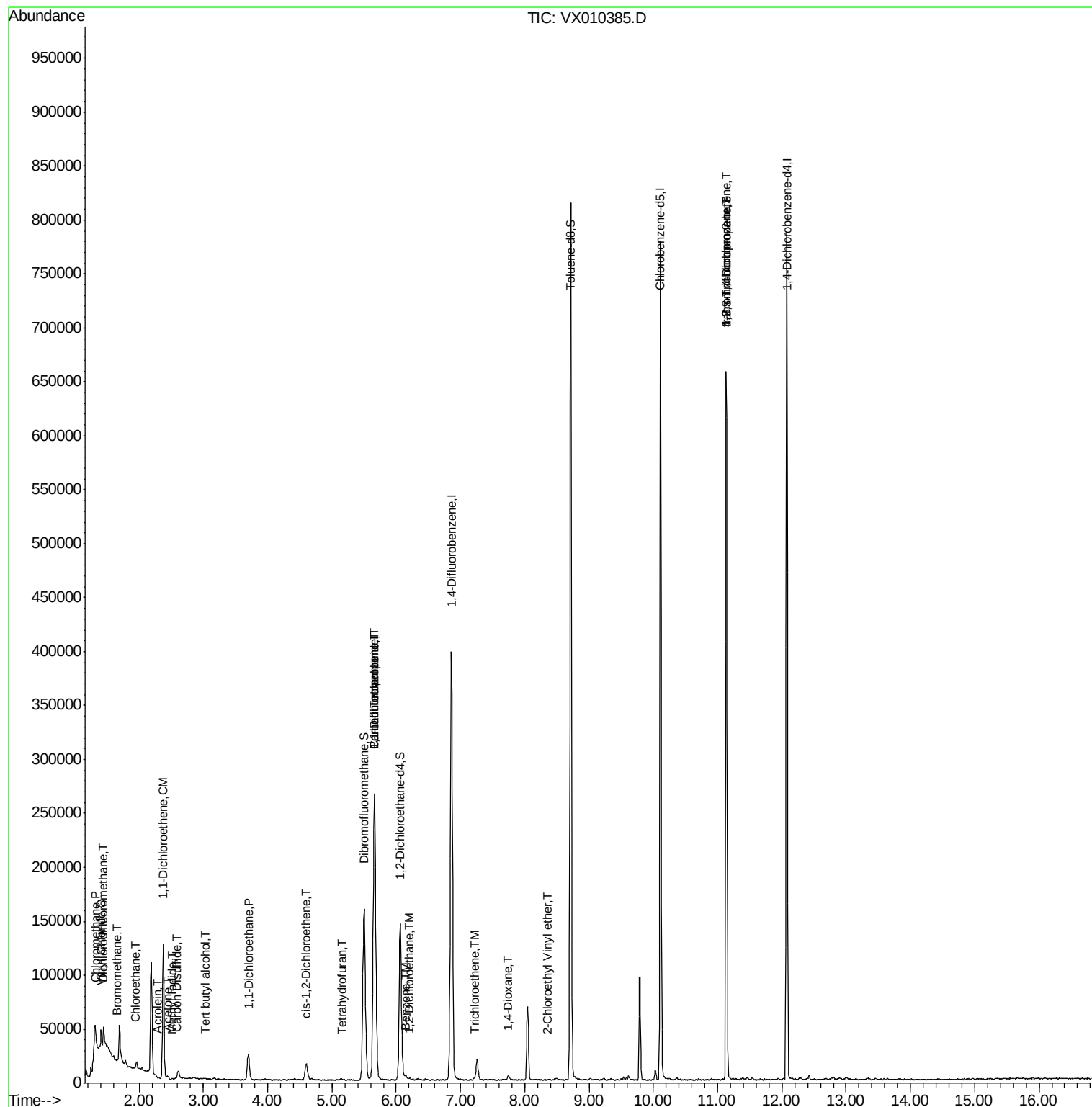
					Qvalue	
2) Dichlorodifluoromethane	1.45	85	2859	1.458	ug/l	96
3) Chloromethane	1.32	50	2541	1.113	ug/l #	67
4) Vinyl Chloride	1.41	62	10924	4.369	ug/l #	81
5) Bromomethane	1.66	94	650	0.534	ug/l	83
6) Chloroethane	1.94	64	1489	1.009	ug/l #	57
10) Methyl Iodide	2.51	142	968	0.282	ug/l #	97
11) Tert butyl alcohol	3.02	59	1026	1.483	ug/l	95
12) 1,1-Dichloroethene	2.38	96	47069	19.258	ug/l	99
13) Acrolein	2.29	56	186	0.405	ug/l #	14
16) Acetone	2.45	43	3407	2.571	ug/l	91
17) Carbon Disulfide	2.57	76	2429	0.370	ug/l #	83
24) 1,1-Dichloroethane	3.70	63	26014	6.203	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	11405	3.755	ug/l	91
29) Tetrahydrofuran	5.16	42	657	0.546	ug/l #	36
36) 1,1-Dichloropropene	5.67	75	17442	5.100	ug/l #	43
38) Carbon Tetrachloride	5.67	117	25034	6.760	ug/l #	16
40) Benzene	6.15	78	4200	0.394	ug/l #	90
42) 1,2-Dichloroethane	6.20	62	1720	0.530	ug/l	90
44) Trichloroethene	7.21	130	785	0.246	ug/l	96
49) 1,4-Dioxane	7.74	88	3737	47.945	ug/l #	94
58) 2-Chloroethyl Vinyl ether	8.37	63	468	0.225	ug/l #	44
76) 1,2,3-Trichloropropane	11.13	75	78735	24.275	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	78735	56.631	ug/l #	17

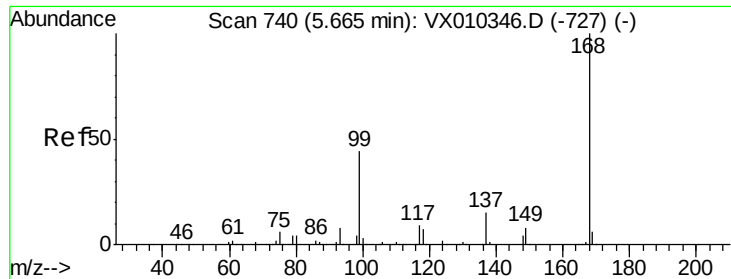
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :
MW-3

Quant Time: Jun 21 23:12:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampled :

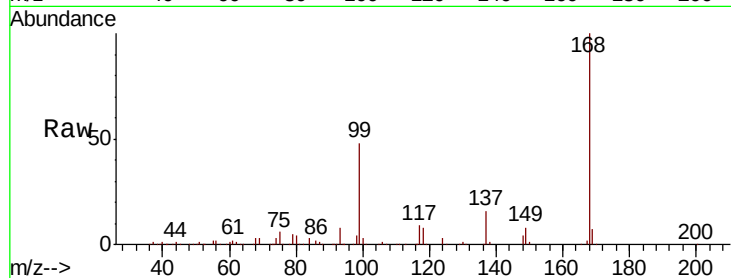
MW-3

Tot Ion:168 Resp: 281973

Ion Ratio Lower Upper

168 100

99 47.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

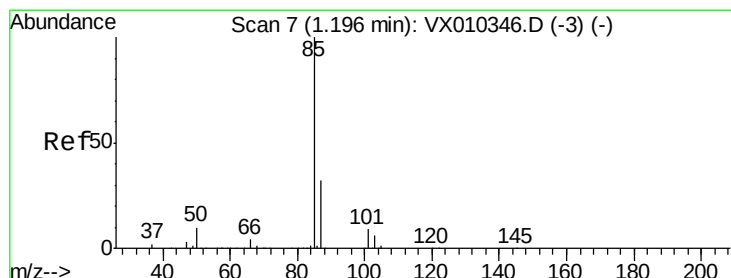
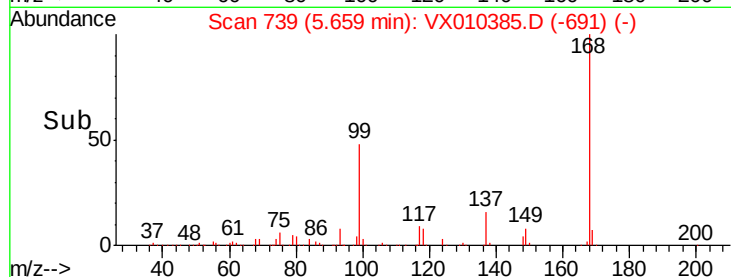
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.458 ug/l

RT: 1.45 min Scan# 48

Delta R.T. 0.25 min

Lab File: VX010385.D

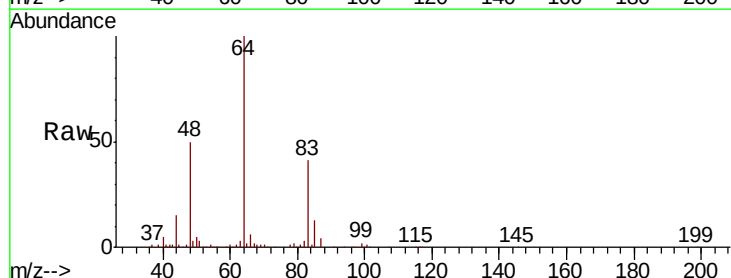
Acq: 21 Jun 2019 15:25

Tgt Ion: 85 Resp: 2859

Ion Ratio Lower Upper

85 100

87 30.3 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.45

2500

2000

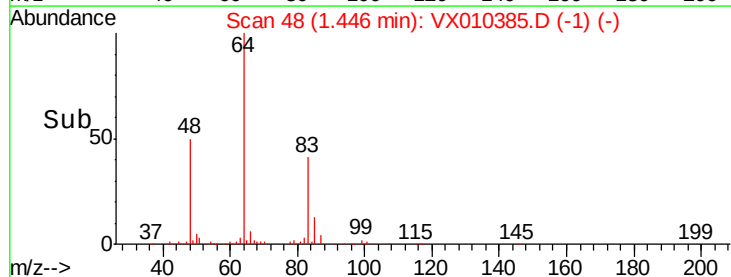
1500

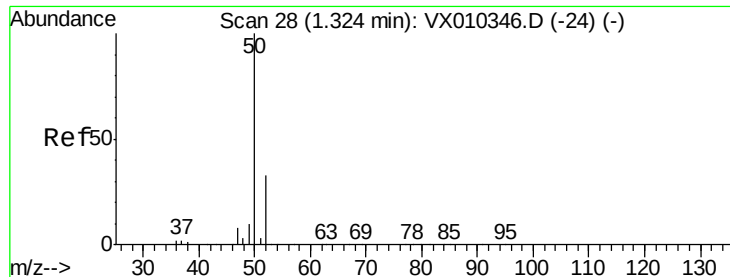
1000

500

0

Time--> 1.40 1.42 1.44 1.46 1.48





#3

Chloromethane

Concen: 1.113 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampled :

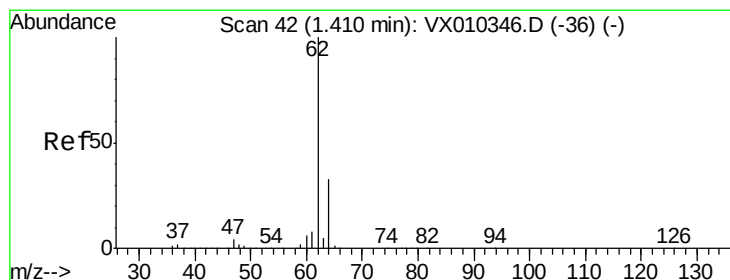
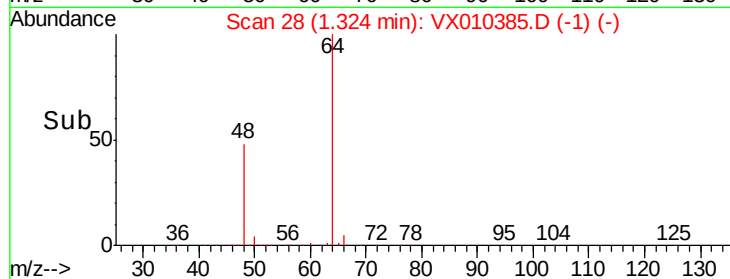
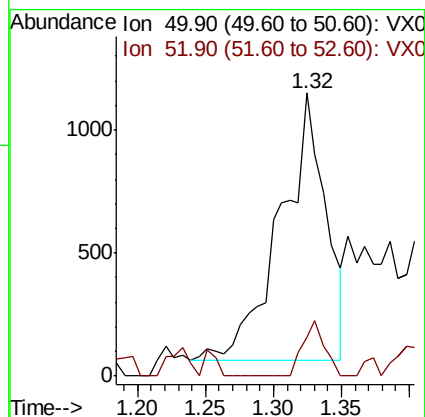
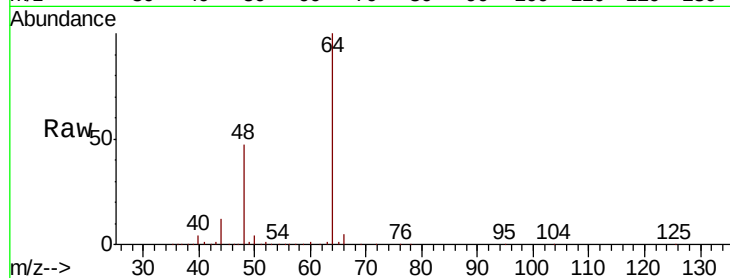
MW-3

Tot Ion: 50 Resp: 2541

Ion Ratio Lower Upper

50 100

52 14.4 26.5 39.7#



#4

Vinyl Chloride

Concen: 4.369 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010385.D

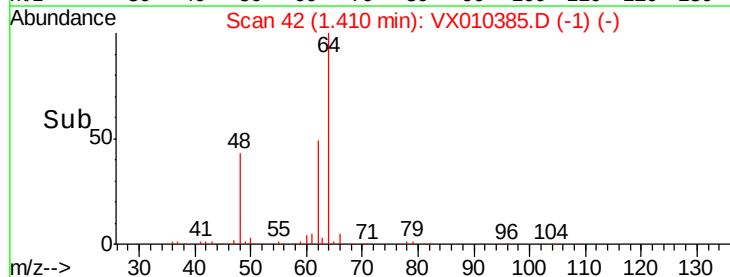
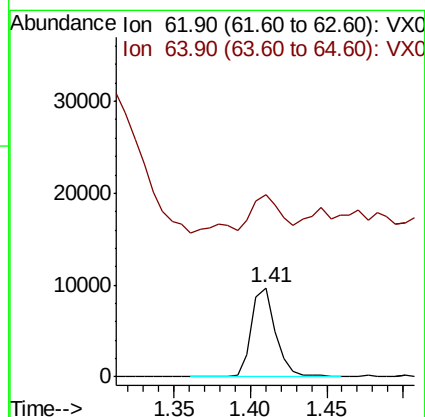
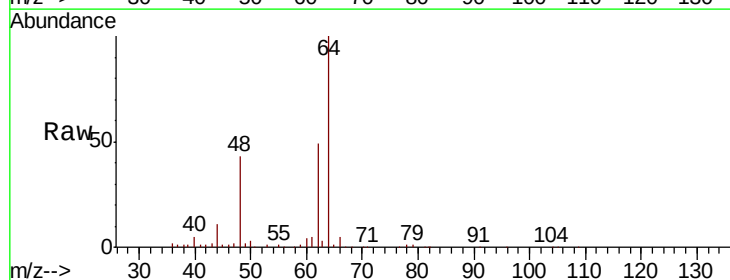
Acq: 21 Jun 2019 15:25

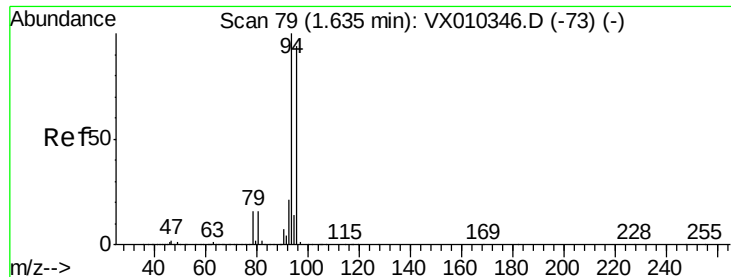
Tgt Ion: 62 Resp: 10924

Ion Ratio Lower Upper

62 100

64 43.5 26.2 39.4#





#5

Bromomethane

Concen: 0.534 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampled :

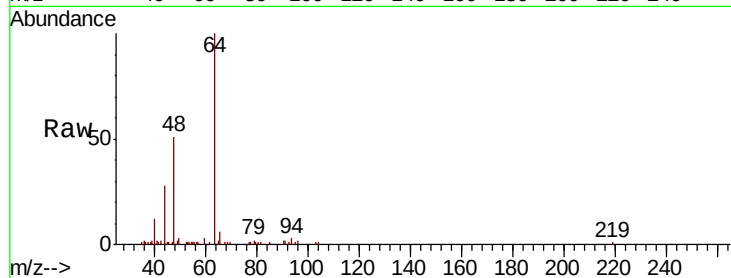
MW-3

Tot Ion: 94 Resp: 650

Ion Ratio Lower Upper

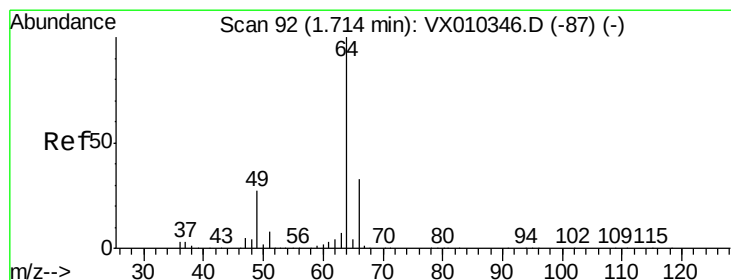
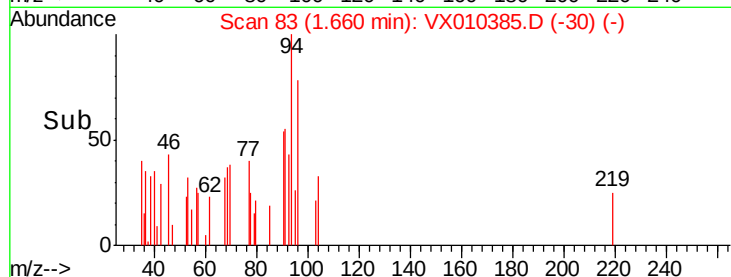
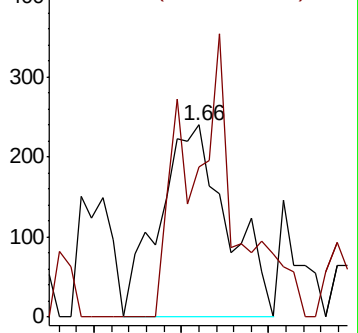
94 100

96 78.3 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.009 ug/l

RT: 1.94 min Scan# 129

Delta R.T. 0.23 min

Lab File: VX010385.D

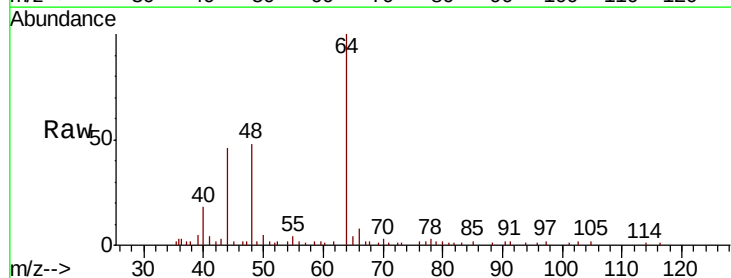
Acq: 21 Jun 2019 15:25

Tgt Ion: 64 Resp: 1489

Ion Ratio Lower Upper

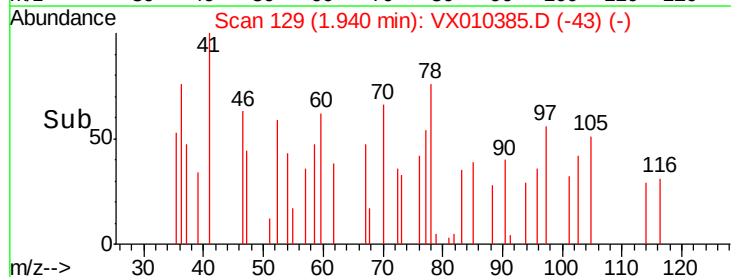
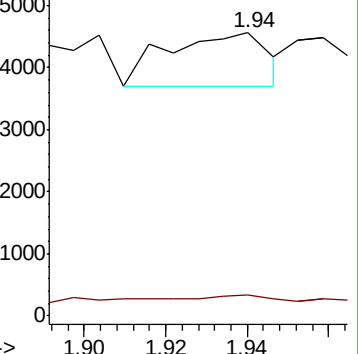
64 100

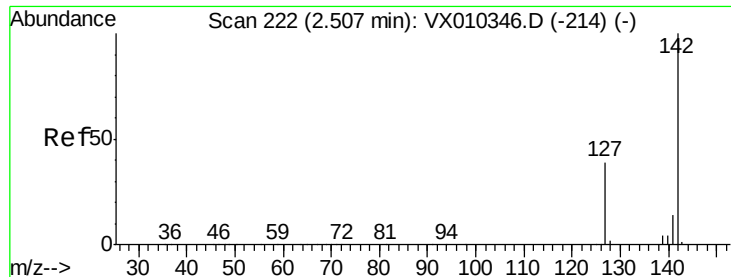
66 9.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

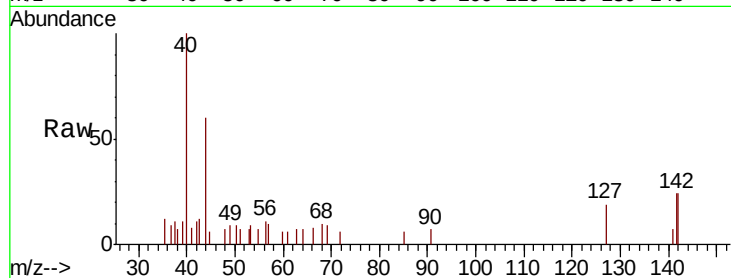




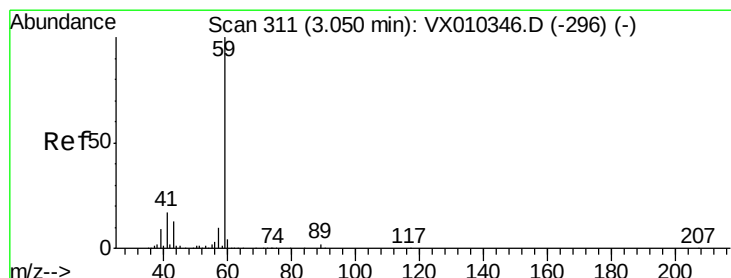
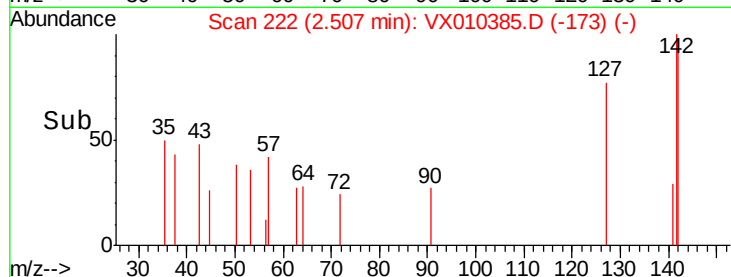
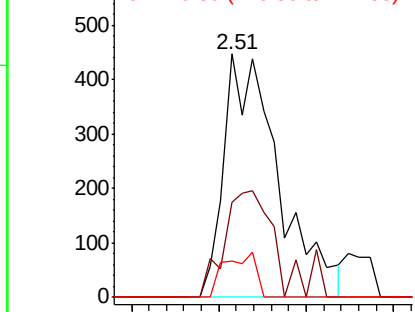
#10
Methvl Iodide
Concen: 0.282 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX010385.D
Acq: 21 Jun 2019 15:25

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Tot Ion:142 Resp: 968
Ion Ratio Lower Upper
142 100
127 39.4 31.1 46.7
141 10.4 11.2 16.8#

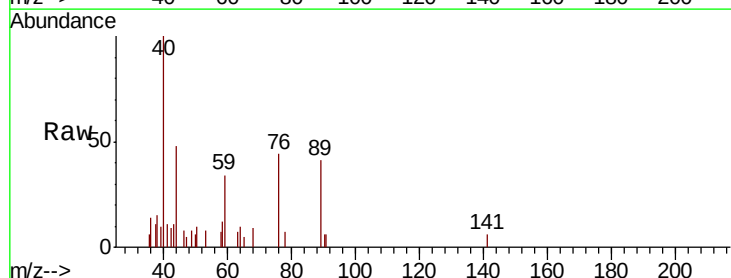


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

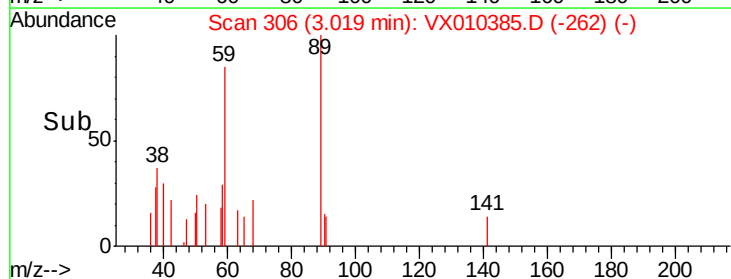
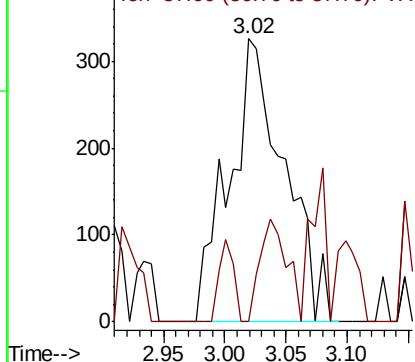


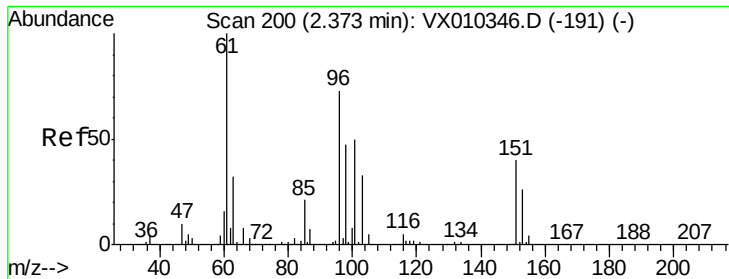
#11
Tert butyl alcohol
Concen: 1.483 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010385.D
Acq: 21 Jun 2019 15:25

Tgt Ion: 59 Resp: 1026
Ion Ratio Lower Upper
59 100
57 7.8 7.7 11.5



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 19.258 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

MW-3

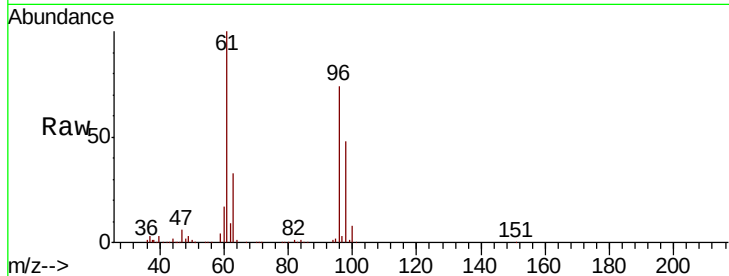
Tot Ion: 96 Resp: 47069

Ion Ratio Lower Upper

96 100

61 134.5 109.2 163.8

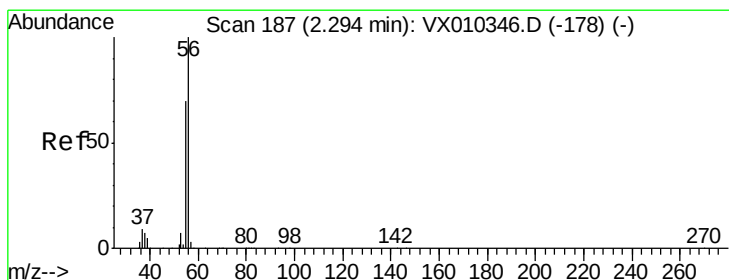
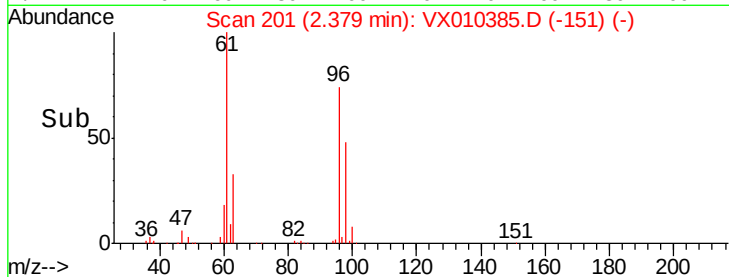
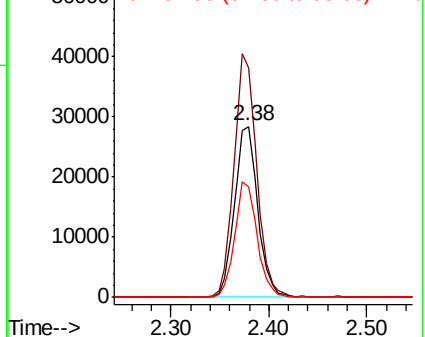
98 64.6 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.405 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010385.D

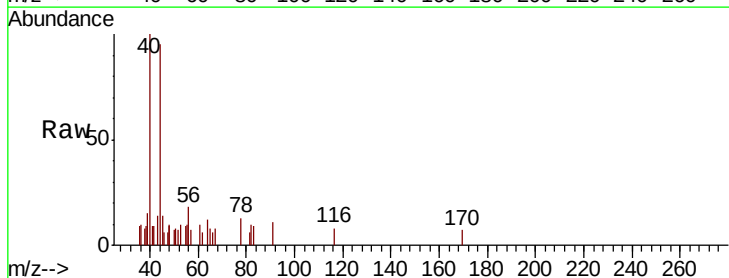
Acq: 21 Jun 2019 15:25

Tgt Ion: 56 Resp: 186

Ion Ratio Lower Upper

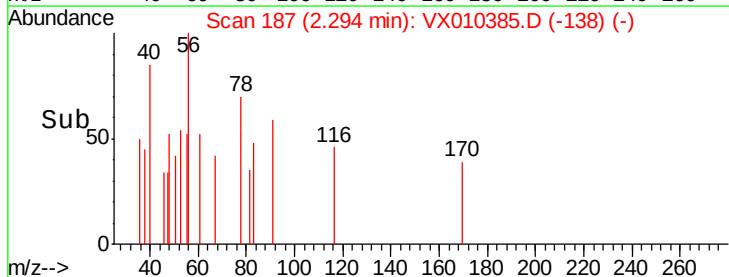
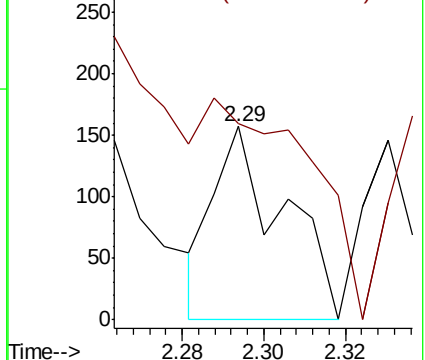
56 100

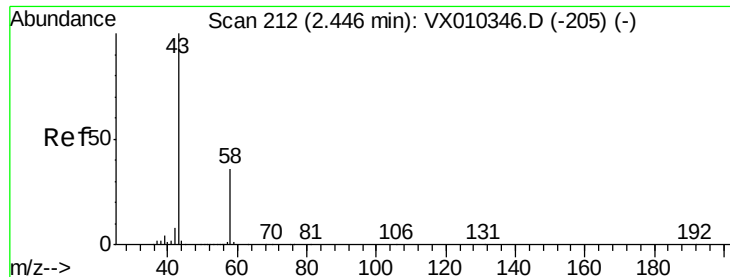
55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.571 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

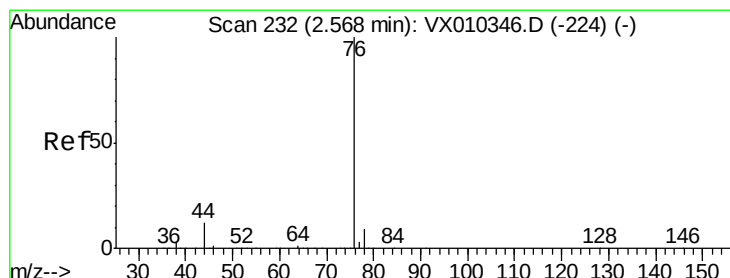
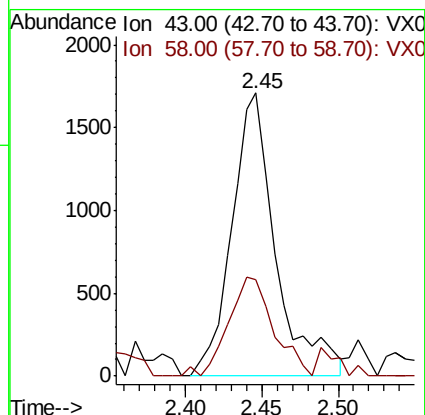
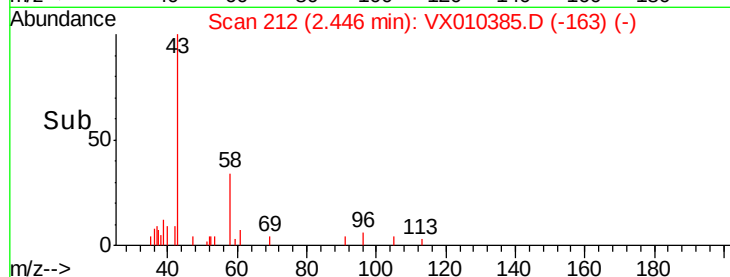
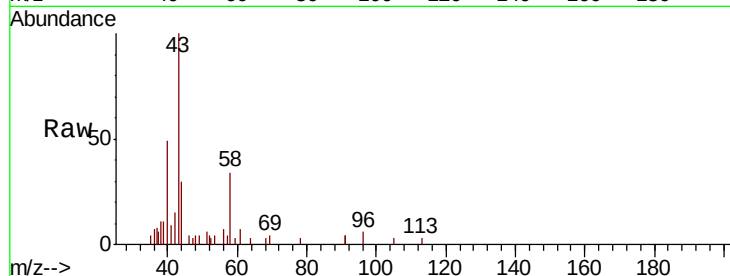
MW-3

Tot Ion: 43 Resp: 3407

Ion Ratio Lower Upper

43 100

58 30.7 28.9 43.3



#17

Carbon Disulfide

Concen: 0.370 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010385.D

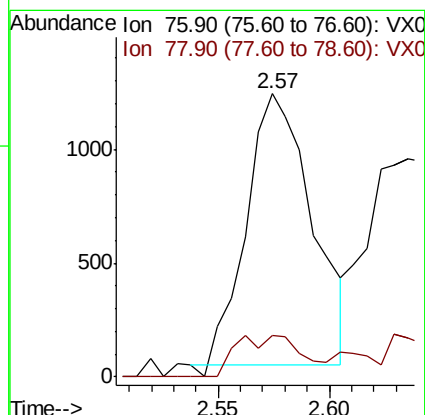
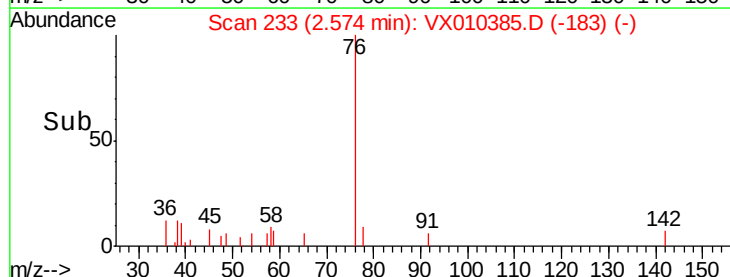
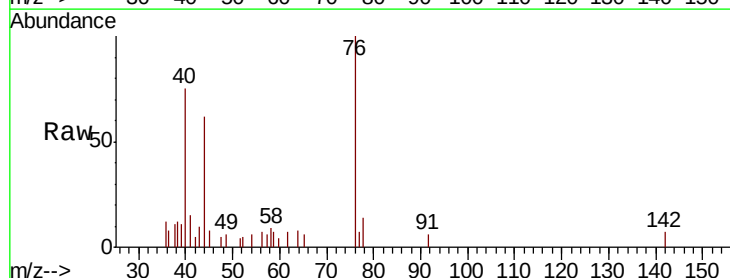
Acq: 21 Jun 2019 15:25

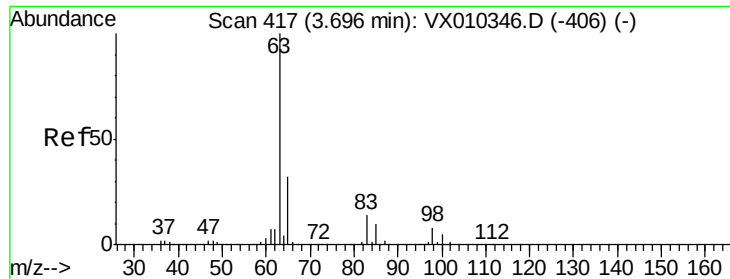
Tgt Ion: 76 Resp: 2429

Ion Ratio Lower Upper

76 100

78 15.1 7.3 10.9#

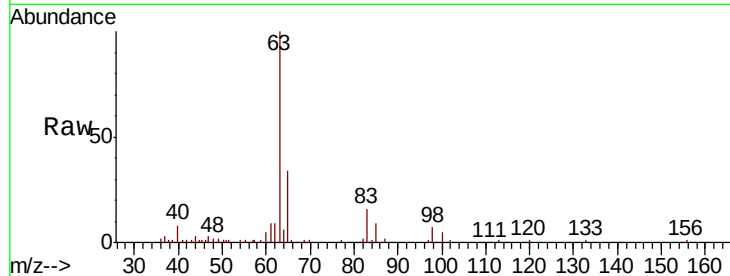




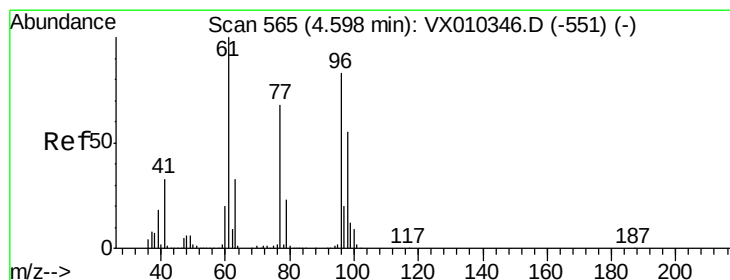
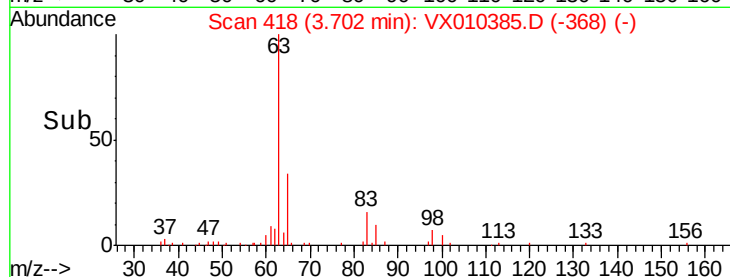
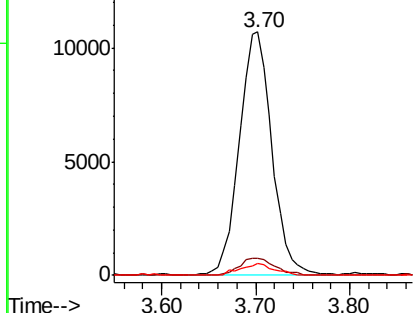
#24
 1,1-Dichloroethane
 Concen: 6.203 ug/l
 RT: 3.70 min Scan# 418
 Delta R.T. 0.01 min
 Lab File: VX010385.D
 Acq: 21 Jun 2019 15:25

Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

Tot Ion: 63 Resp: 26014
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.9 11.7
 100 4.9 2.4 7.1

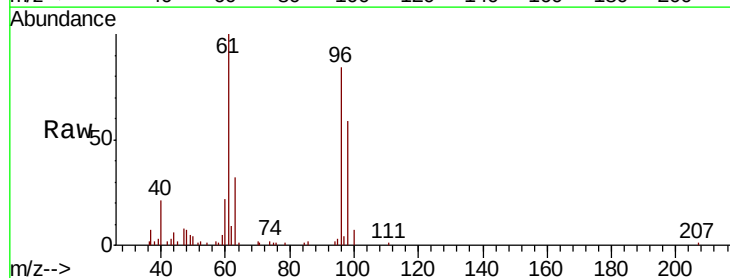


Abundance Ion 62.90 (62.60 to 63.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0
 Ion 99.90 (99.60 to 100.60): VX0

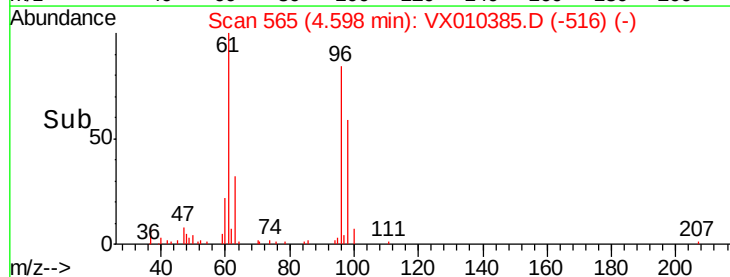
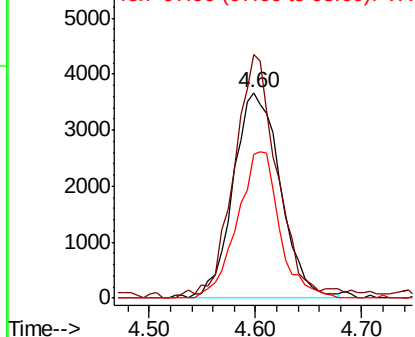


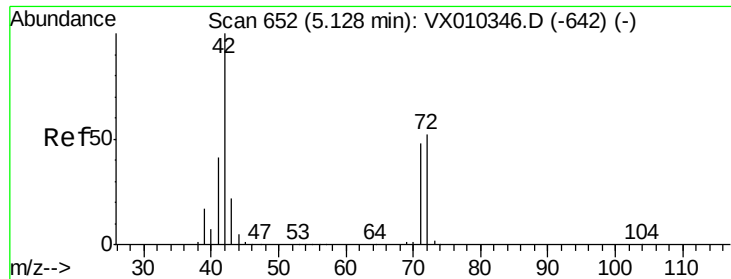
#27
 cis-1,2-Dichloroethene
 Concen: 3.755 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX010385.D
 Acq: 21 Jun 2019 15:25

Tgt Ion: 96 Resp: 11405
 Ion Ratio Lower Upper
 96 100
 61 111.1 0.0 251.8
 98 63.6 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

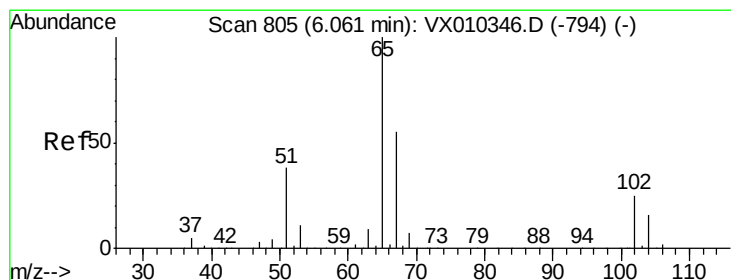
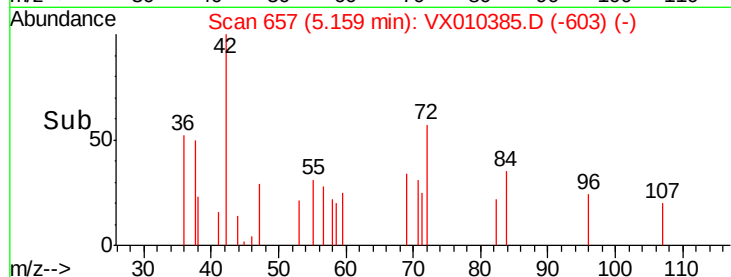
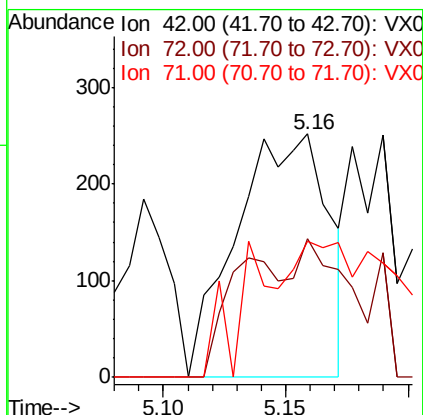
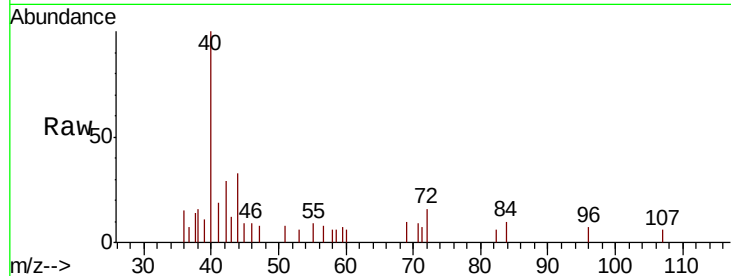




#29
Tetrahydrofuran
Concen: 0.546 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.03 min
Lab File: VX010385.D
Acq: 21 Jun 2019 15:25

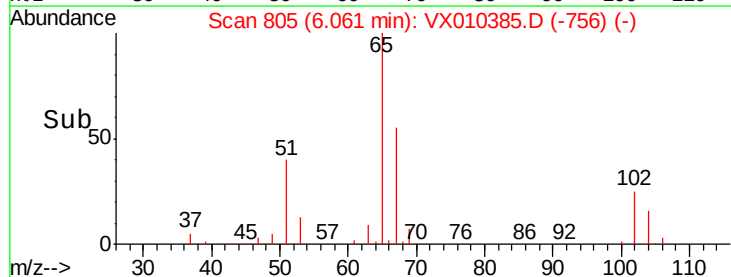
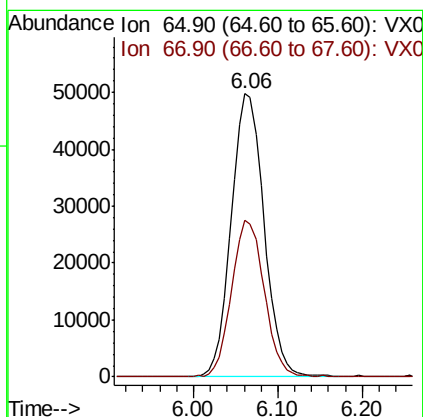
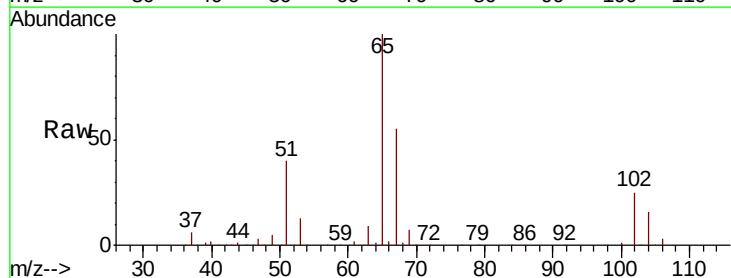
Instrument :
MSVOA_X
ClientSampled :
MW-3

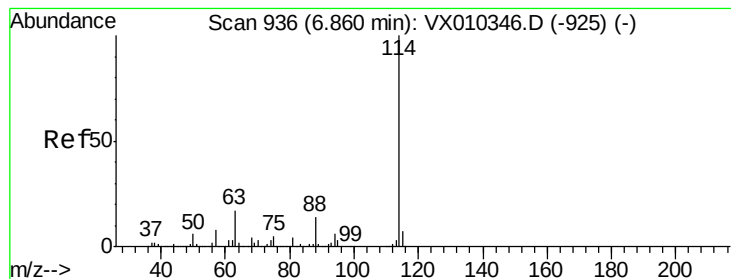
Tot Ion: 42 Resp: 657
Ion Ratio Lower Upper
42 100
72 0.0 40.6 60.8#
71 11.6 37.8 56.8#



#33
1,2-Dichloroethane-d4
Concen: 49.539 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010385.D
Acq: 21 Jun 2019 15:25

Tgt Ion: 65 Resp: 130970
Ion Ratio Lower Upper
65 100
67 55.2 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

MW-3

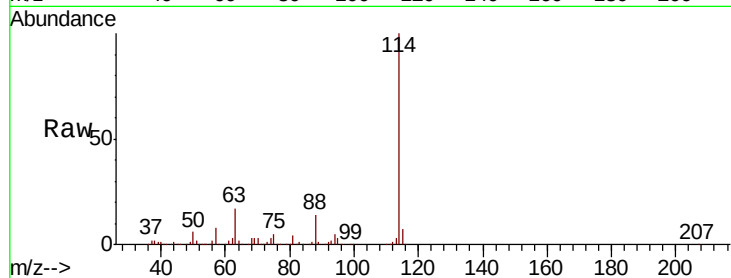
Tot Ion:114 Resp: 430365

Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.8

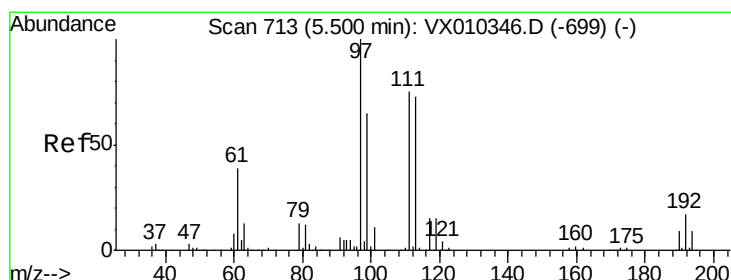
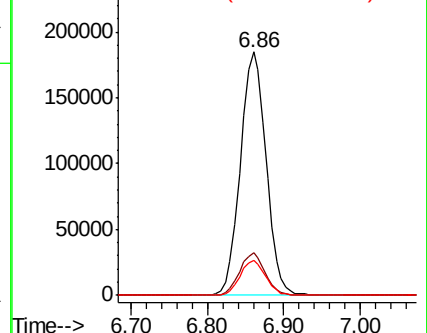
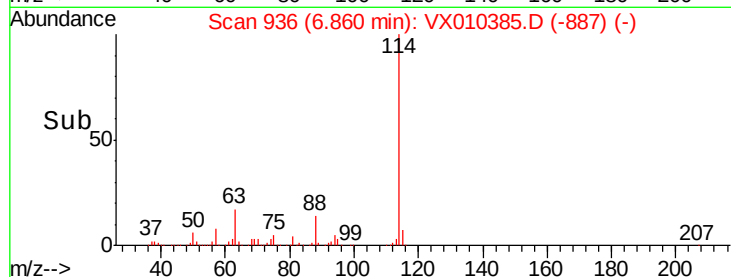
88 14.4 0.0 27.6



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: 50.019 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

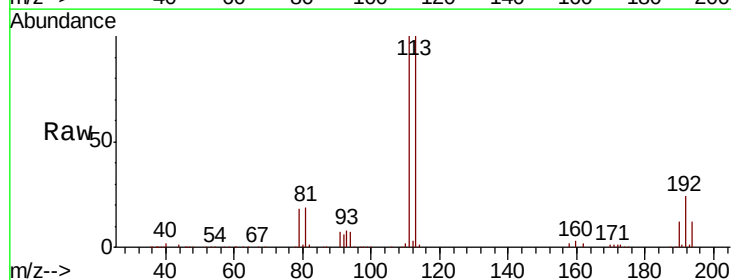
Tgt Ion:113 Resp: 131707

Ion Ratio Lower Upper

113 100

111 102.0 81.2 121.8

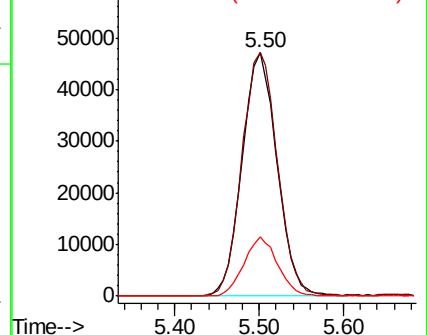
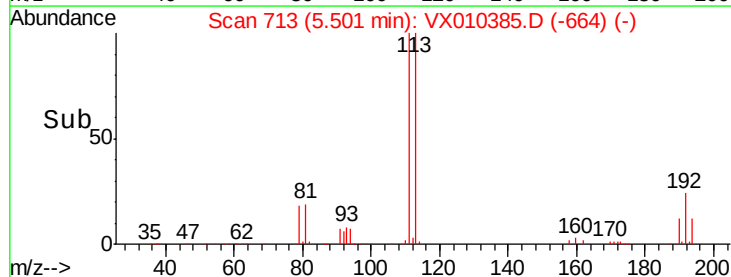
192 23.3 18.6 27.8

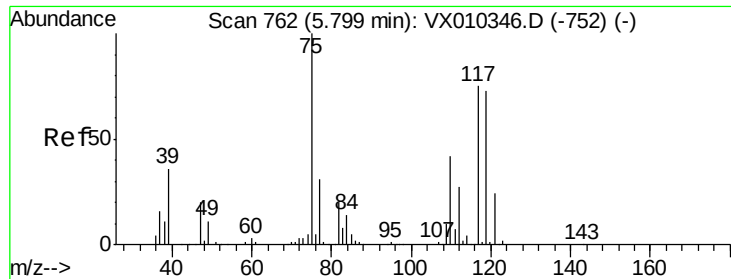


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

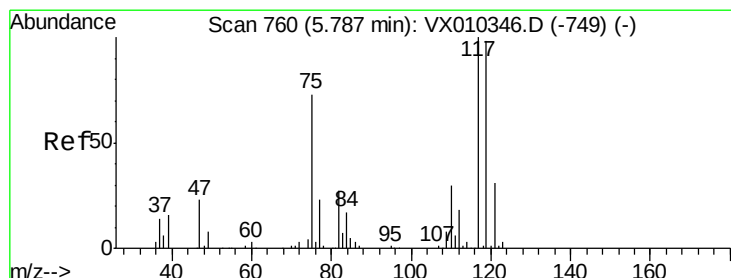
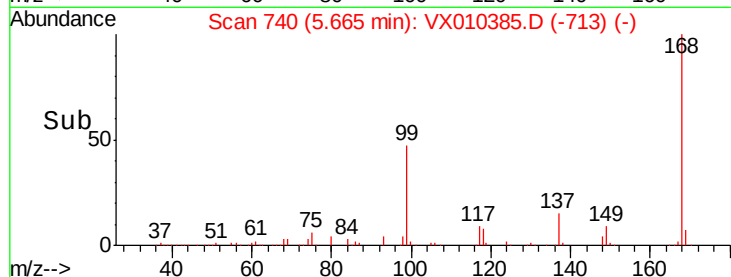
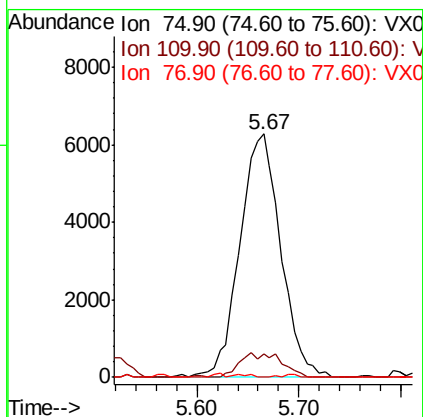
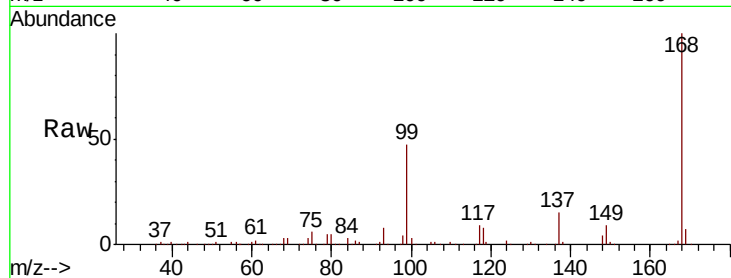




#36
 1,1-Dichloropropene
 Concen: 5.100 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX010385.D
 Acq: 21 Jun 2019 15:25

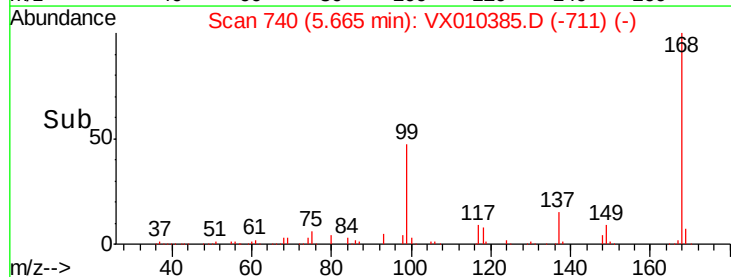
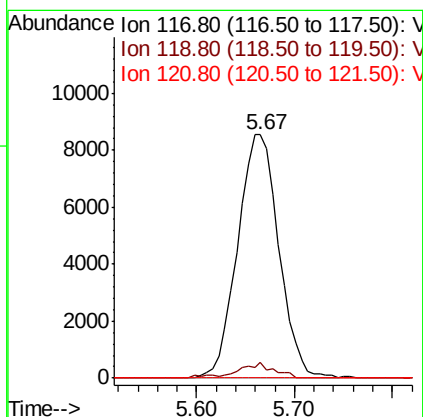
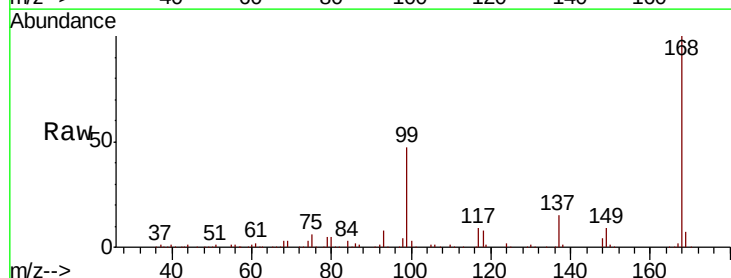
Instrument :
 MSVOA_X
 ClientSampled :
 MW-3

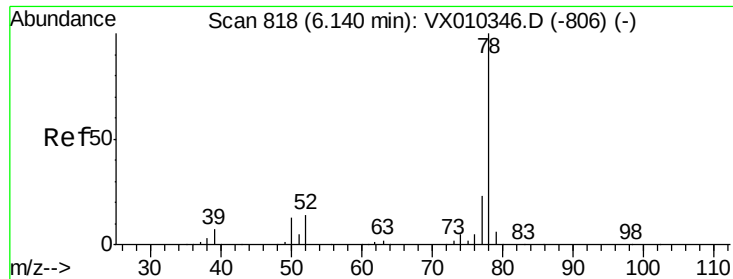
Tot Ion: 75 Resp: 17442
 Ion Ratio Lower Upper
 75 100
 110 4.7 20.8 62.2#
 77 0.6 25.4 38.0#



#38
 Carbon Tetrachloride
 Concen: 6.760 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX010385.D
 Acq: 21 Jun 2019 15:25

Tgt Ion: 117 Resp: 25034
 Ion Ratio Lower Upper
 117 100
 119 6.5 78.2 117.4#
 121 0.0 24.7 37.1#





#40

Benzene

Concen: 0.394 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

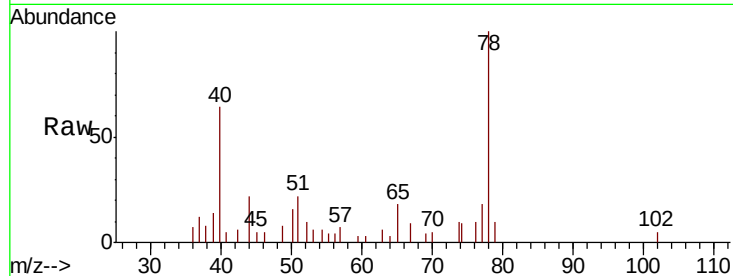
MW-3

Tot Ion: 78 Resp: 4200

Ion Ratio Lower Upper

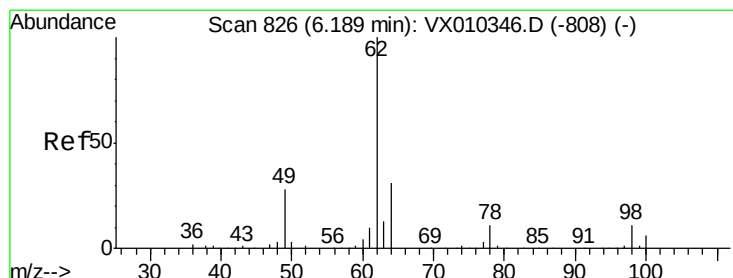
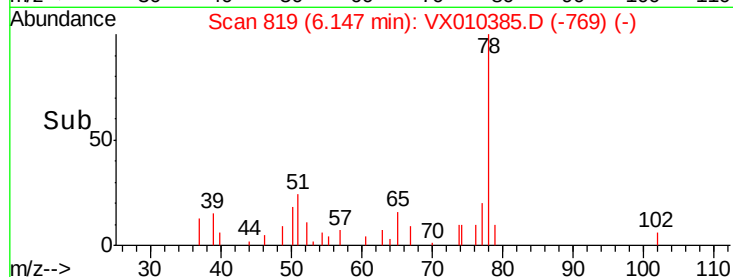
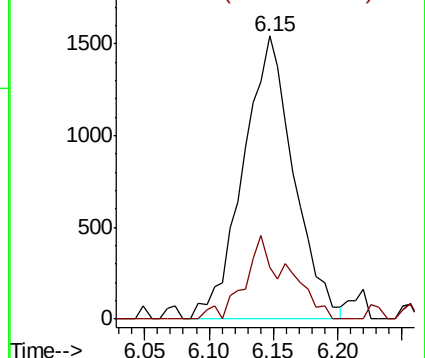
78 100

77 18.2 18.6 28.0#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 0.530 ug/l

RT: 6.20 min Scan# 828

Delta R.T. 0.01 min

Lab File: VX010385.D

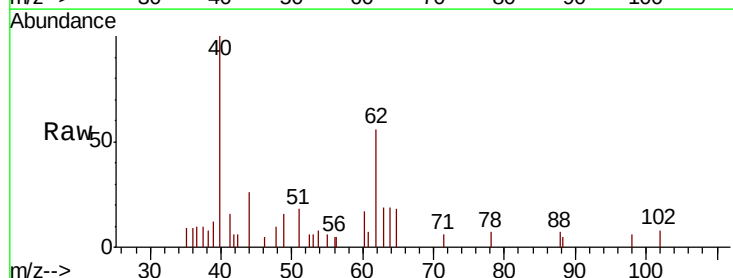
Acq: 21 Jun 2019 15:25

Tgt Ion: 62 Resp: 1720

Ion Ratio Lower Upper

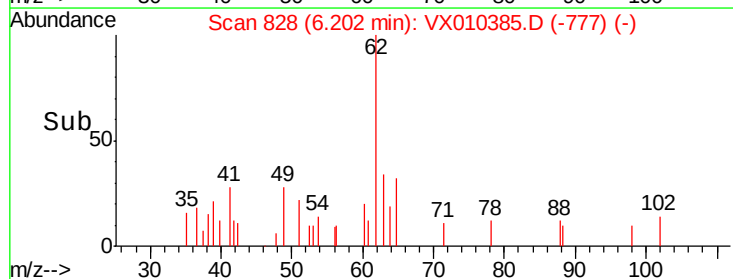
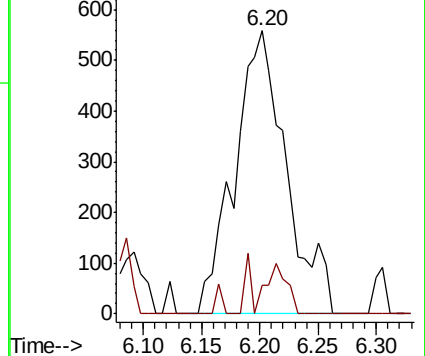
62 100

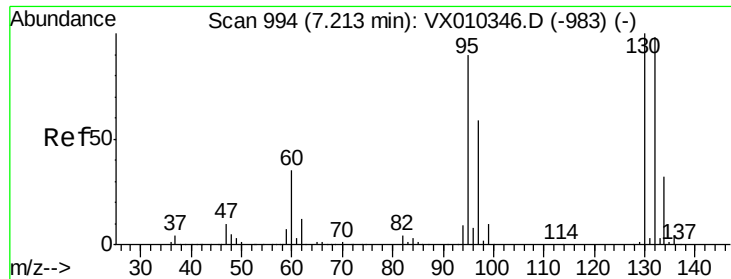
98 7.2 0.0 22.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 0.246 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampled :

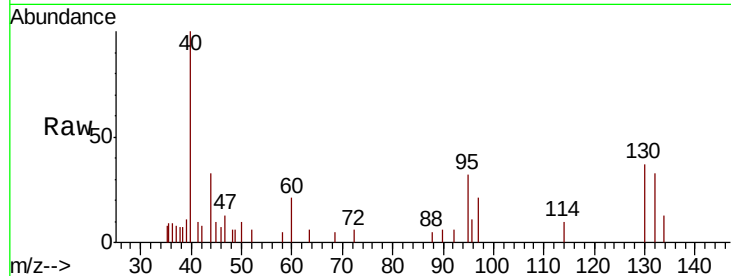
MW-3

Tot Ion:130 Resp: 785

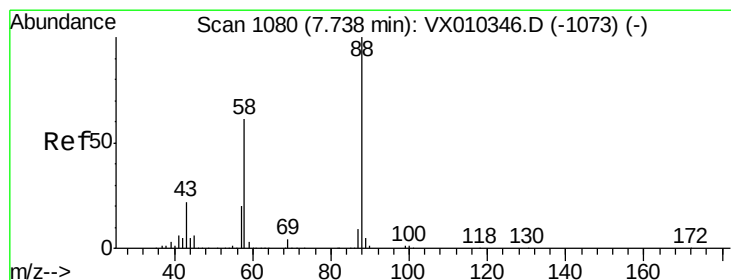
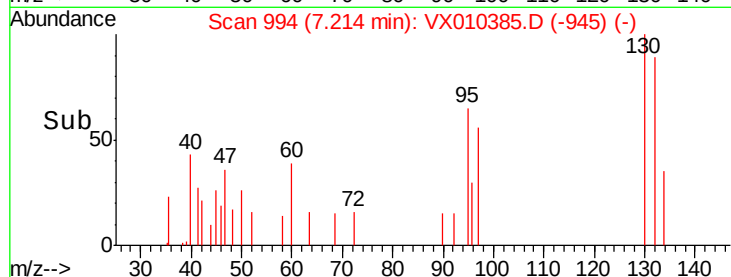
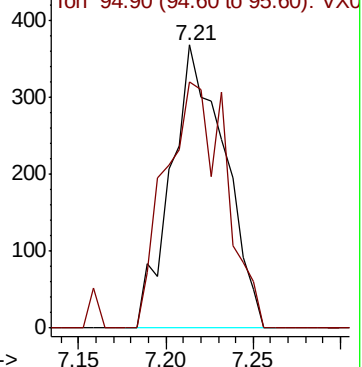
Ion Ratio Lower Upper

130 100

95 87.0 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 47.945 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

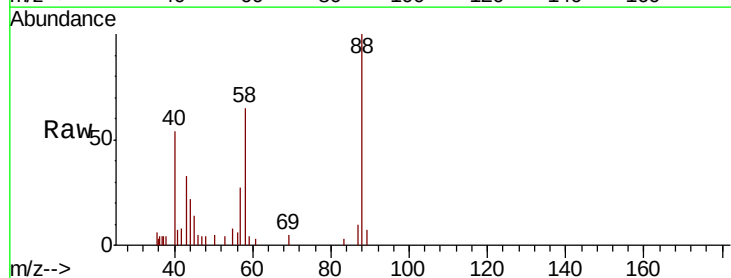
Tgt Ion: 88 Resp: 3737

Ion Ratio Lower Upper

88 100

43 34.2 20.2 30.2#

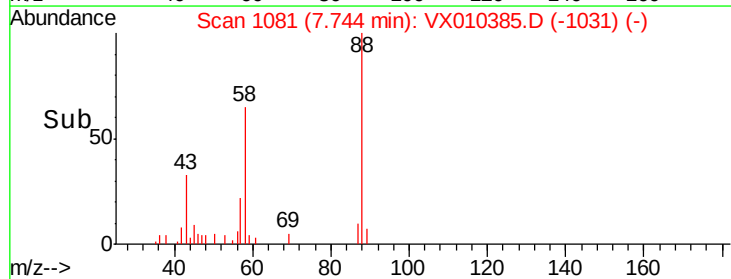
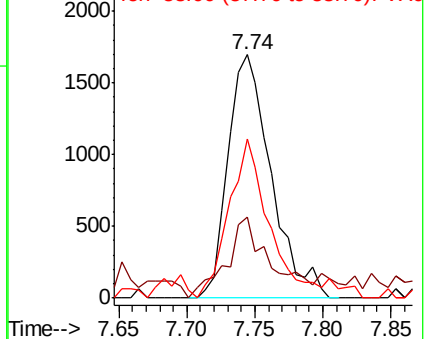
58 61.0 49.5 74.3

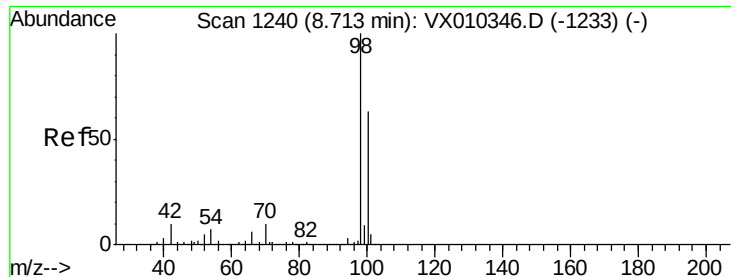


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

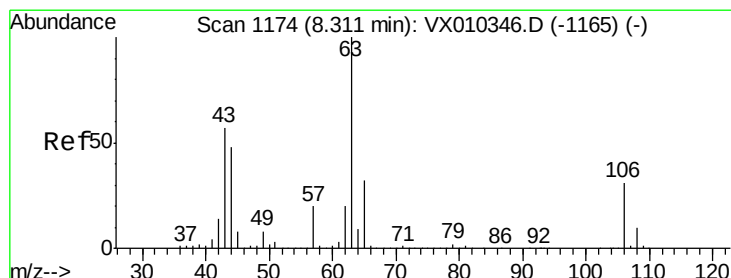
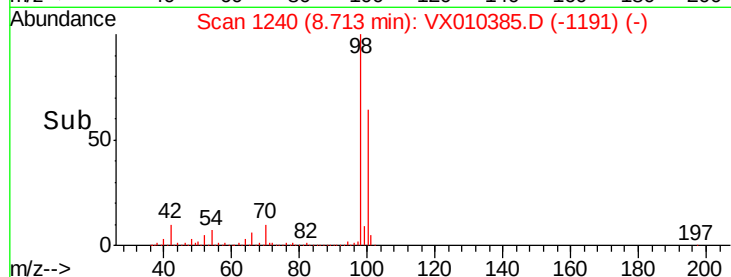
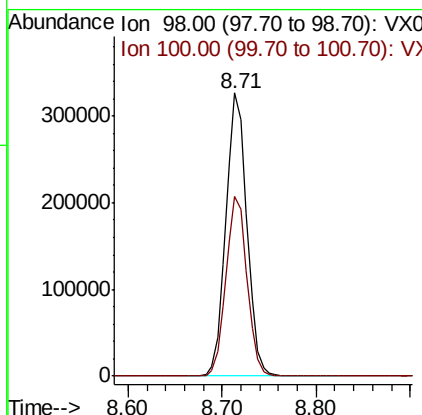
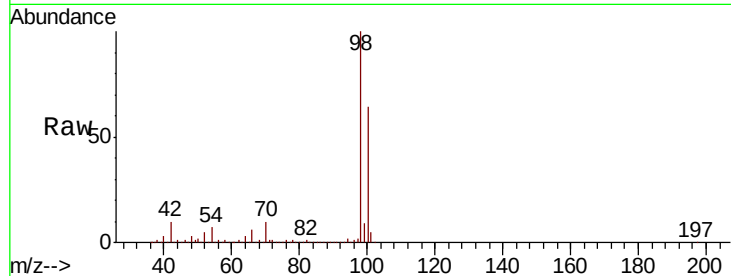




#50
Toluene-d8
Concen: 50.134 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010385.D
Acq: 21 Jun 2019 15:25

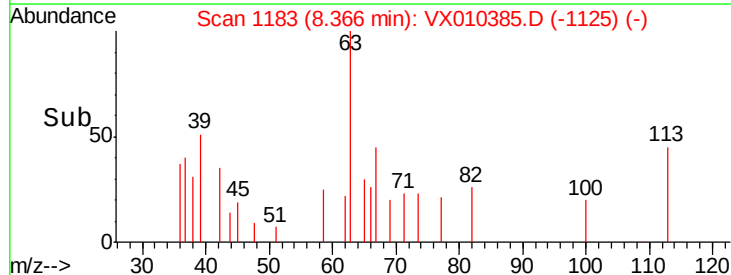
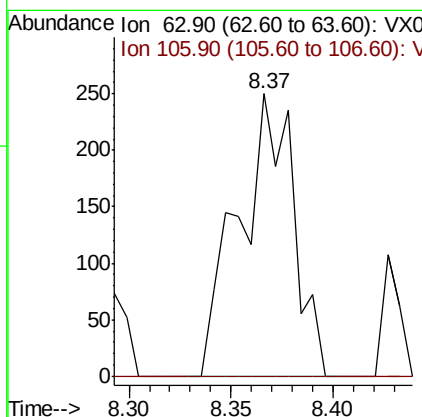
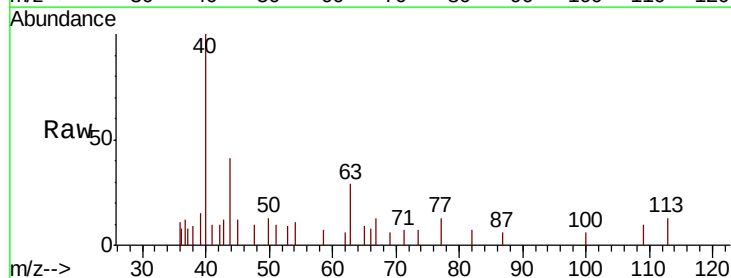
Instrument :
MSVOA_X
ClientSampleId :
MW-3

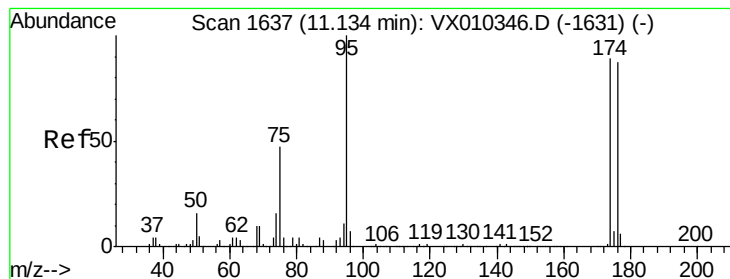
Tot Ion: 98 Resp: 505045
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4



#58
2-Chloroethyl Vinyl ether
Concen: 0.225 ug/l
RT: 8.37 min Scan# 1183
Delta R.T. 0.06 min
Lab File: VX010385.D
Acq: 21 Jun 2019 15:25

Tgt Ion: 63 Resp: 468
Ion Ratio Lower Upper
63 100
106 0.0 24.7 37.1#





#62

4-Bromofluorobenzene

Concen: 46.192 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

MW-3

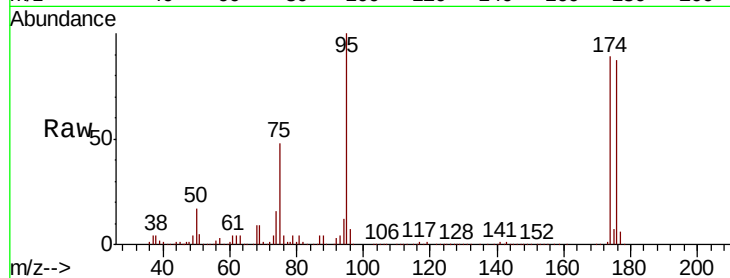
Tot Ion: 95 Resp: 167999

Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.6

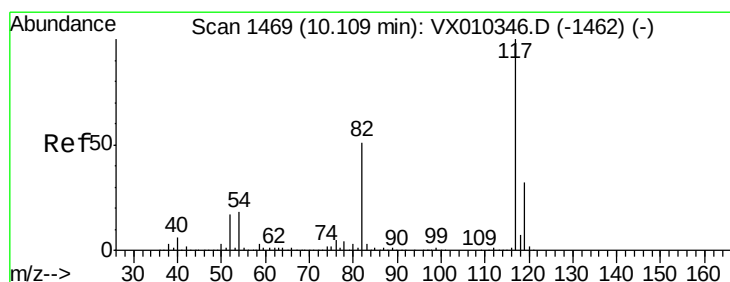
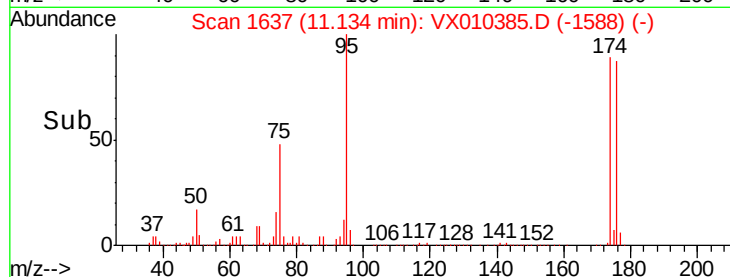
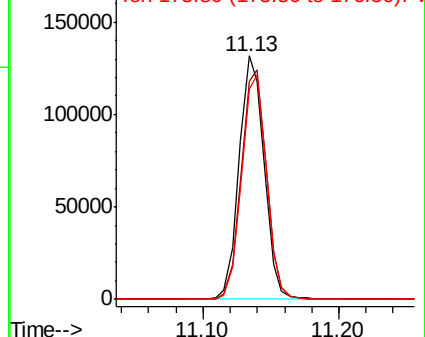
176 92.6 0.0 184.0



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

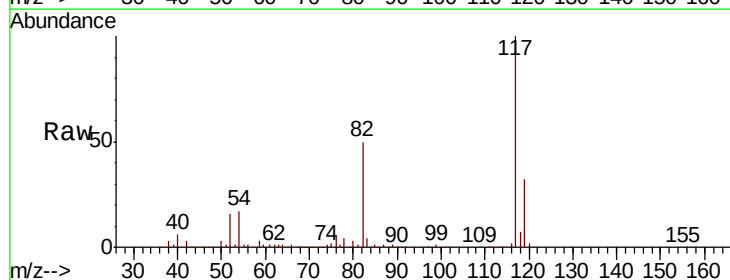
Tgt Ion: 117 Resp: 386289

Ion Ratio Lower Upper

117 100

82 50.3 41.2 61.8

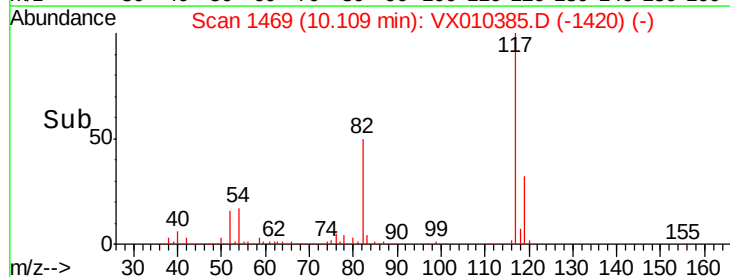
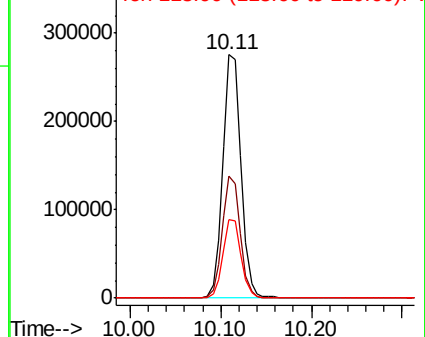
119 32.3 25.5 38.3

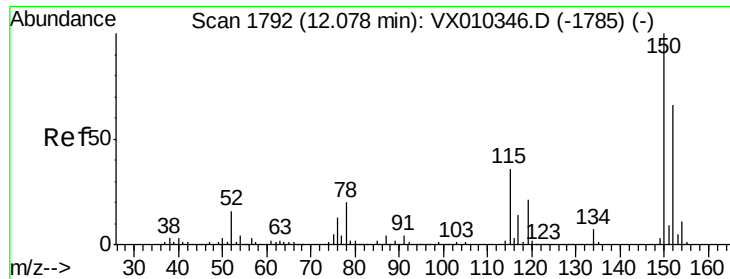


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

MW-3

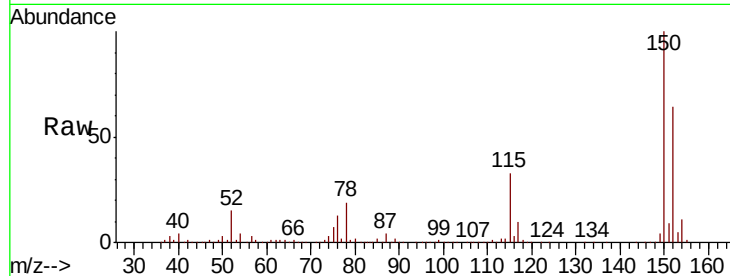
Tot Ion:152 Resp: 177992

Ion Ratio Lower Upper

152 100

115 54.2 38.6 115.7

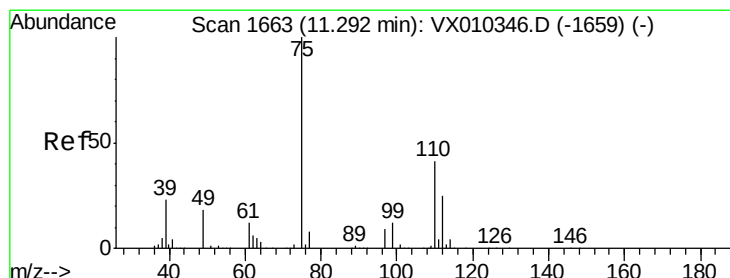
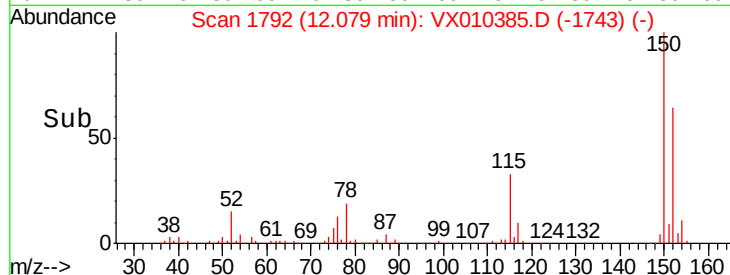
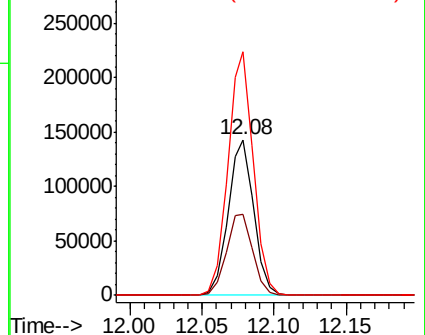
150 155.6 0.0 347.4



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: 24.275 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010385.D

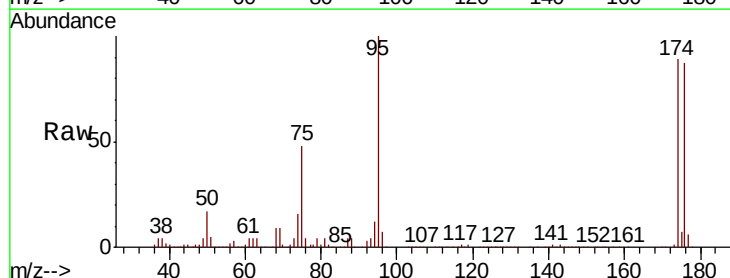
Acq: 21 Jun 2019 15:25

Tgt Ion: 75 Resp: 78735

Ion Ratio Lower Upper

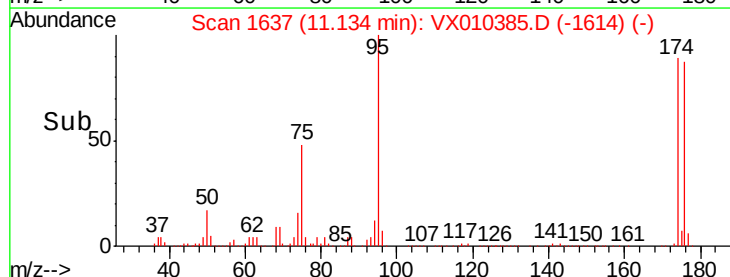
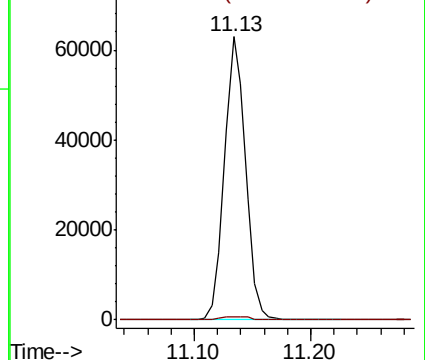
75 100

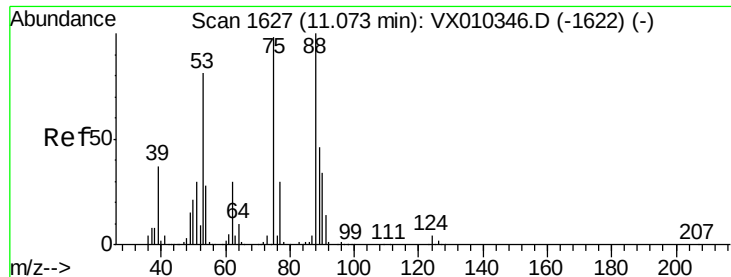
77 1.6 22.6 67.8#



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: 56.631 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010385.D

Acq: 21 Jun 2019 15:25

Instrument :

MSVOA_X

ClientSampleId :

MW-3

Tot Ion: 75 Resp: 78735

Ion Ratio Lower Upper

75 100

53 0.5 66.1 99.1#

89 1.8 37.8 56.6#

