

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011338.D
 Acq On : 05 Aug 2019 19:57
 Operator : JC/SP
 Sample : K4136-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:41:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	182342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	264349	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	246454	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109838	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	89124	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
35) Dibromofluoromethane	5.49	113	80229	46.49	ug/l	0.00
Spiked Amount			Recovery	=	92.98%	
50) Toluene-d8	8.71	98	320095	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.13	95	103417	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	

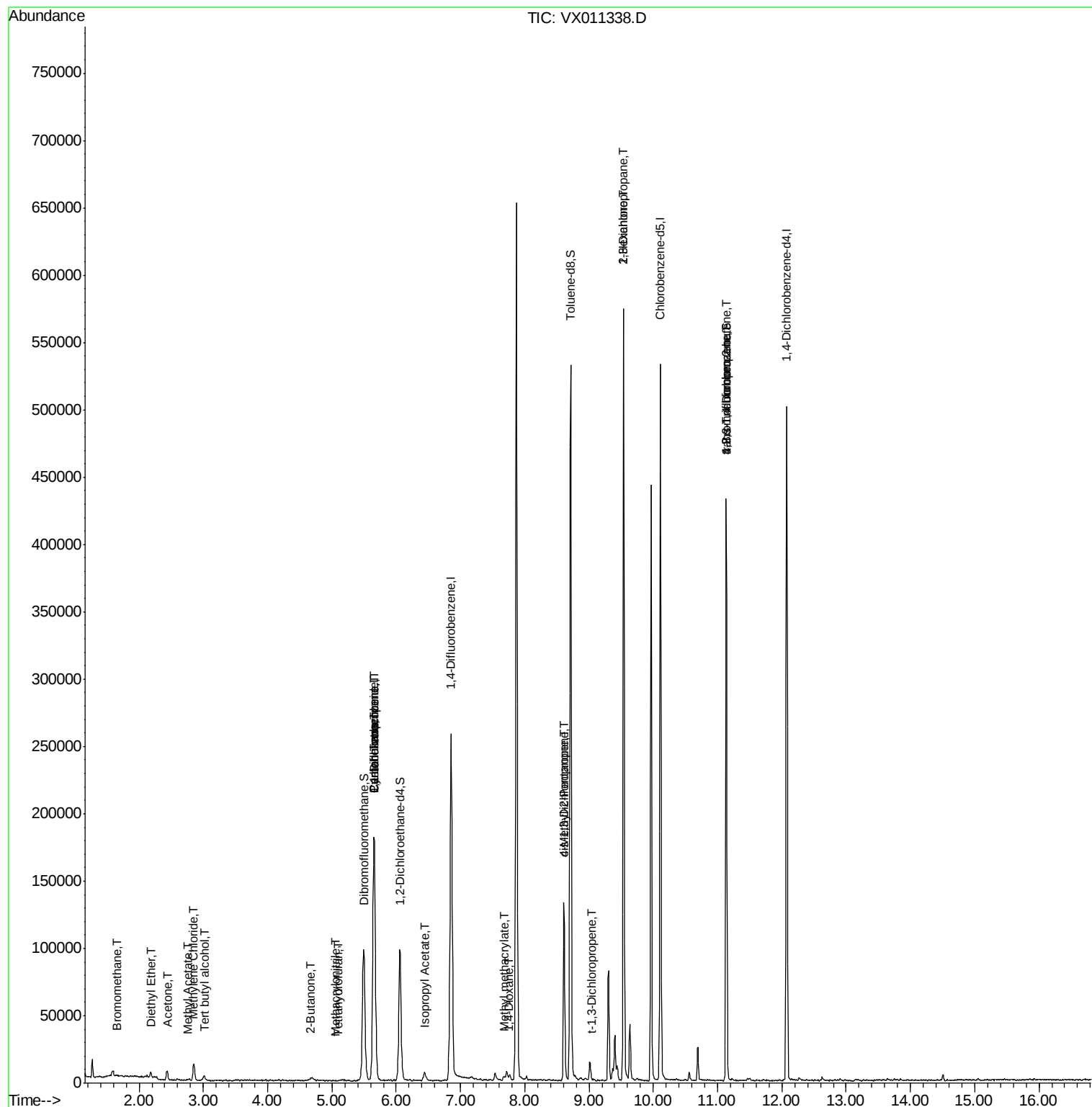
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	340	0.274	ug/l #	73
6) Chloroethane	1.77	64	411	Below Cal	#	43
8) Diethyl Ether	2.18	74	1448	1.311	ug/l	96
11) Tert butyl alcohol	3.01	59	2060	5.648	ug/l #	72
13) Acrolein	2.27	56	89	Below Cal	#	69
16) Acetone	2.43	43	7727	8.841	ug/l	95
18) Methyl Acetate	2.77	43	888	0.445	ug/l #	77
20) Methylene Chloride	2.85	84	5910	3.087	ug/l	87
25) 2-Butanone	4.68	43	582	0.468	ug/l	91
29) Tetrahydrofuran	5.09	42	176	0.231	ug/l #	45
31) Cyclohexane	5.65	56	3625	1.533	ug/l #	12
36) 1,1-Dichloropropene	5.65	75	12214	5.292	ug/l #	49
38) Carbon Tetrachloride	5.66	117	16203	6.978	ug/l #	15
41) Methacrylonitrile	5.05	41	325	0.257	ug/l #	31
43) Isopropyl Acetate	6.44	43	8657	2.339	ug/l	95
48) Methyl methacrylate	7.67	41	3961	2.274	ug/l #	11
49) 1,4-Dioxane	7.75	88	41	0.812	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	41047	17.184	ug/l #	47
53) t-1,3-Dichloropropene	9.04	75	48	2.856	ug/l #	1
54) cis-1,3-Dichloropropene	8.61	75	20956	8.137	ug/l #	66
57) 1,3-Dichloropropane	9.54	76	5243	1.771	ug/l #	41
59) 2-Hexanone	9.54	43	63720	34.440	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	50663	25.328	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	50663	66.036	ug/l #	10

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

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Response via : Initial Calibration

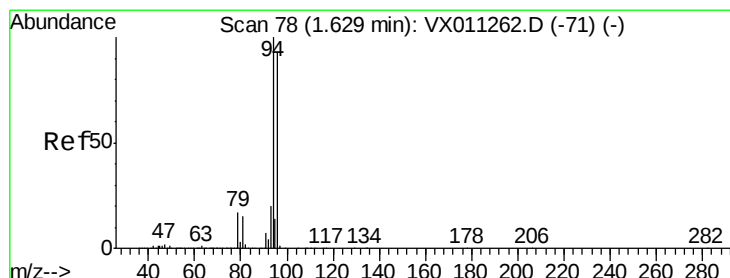
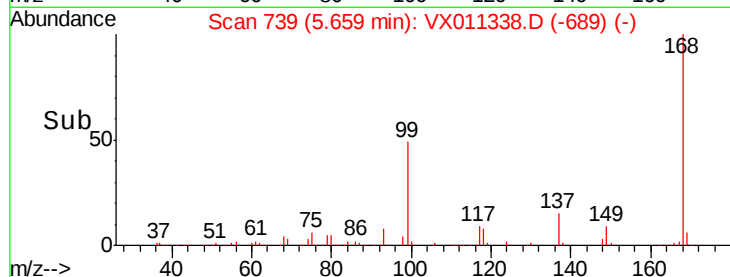
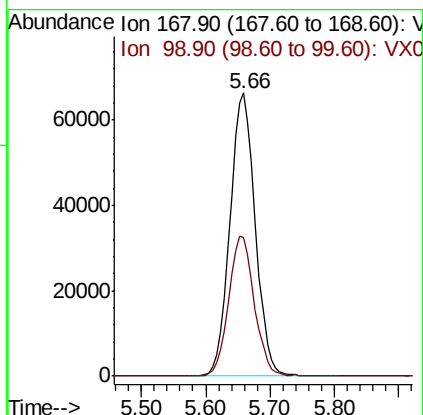
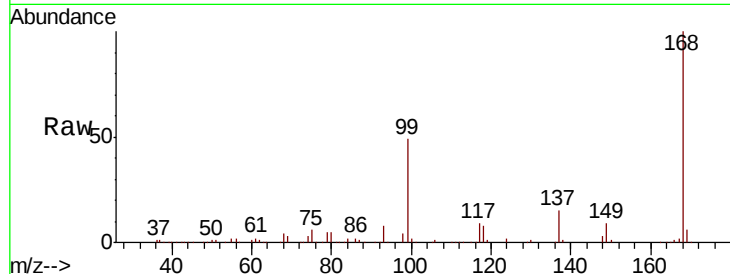




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.01 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

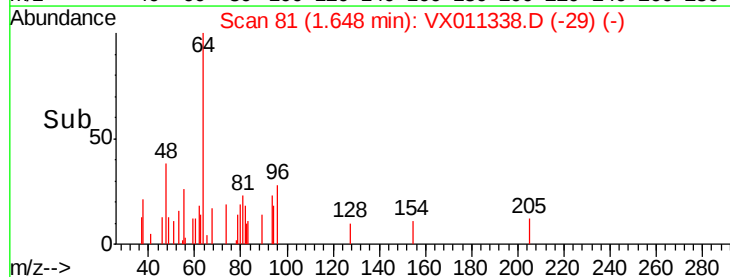
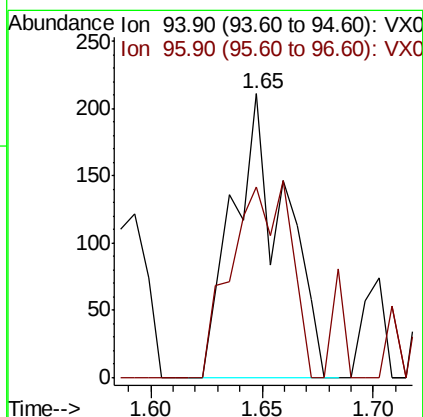
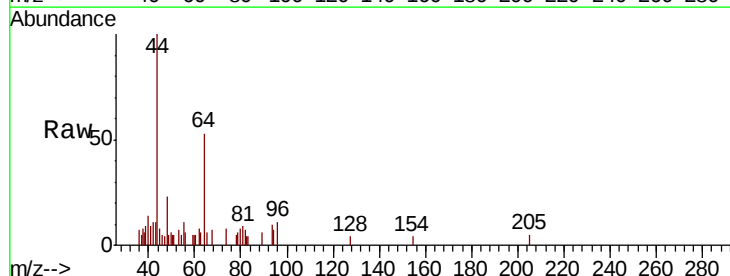
Instrument :
MSVOA_X
ClientSampleId :

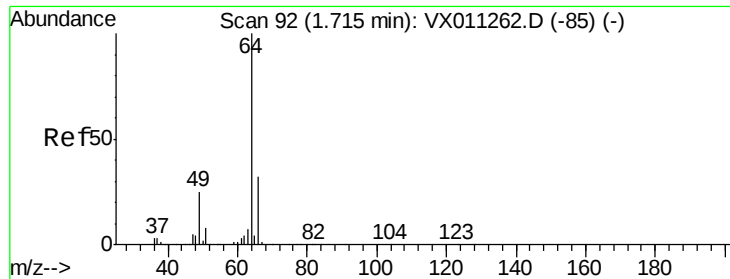
Tot Ion:168 Resp: 182342
Ion Ratio Lower Upper
168 100
99 48.9 38.5 57.7



#5
Bromomethane
Concen: 0.274 ug/l
RT: 1.65 min Scan# 81
Delta R.T. 0.02 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

Tgt Ion: 94 Resp: 340
Ion Ratio Lower Upper
94 100
96 67.3 74.6 112.0#





#6

Chloroethane

Concen: Below Cal

RT: 1.77 min Scan# 101

Delta R.T. 0.06 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :

MSVOA_X

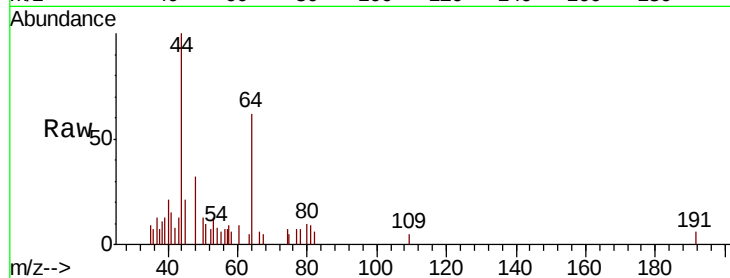
ClientSampleId :

Tot Ion: 64 Resp: 411

Ion Ratio Lower Upper

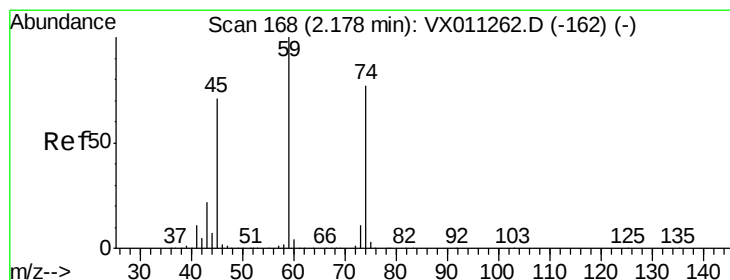
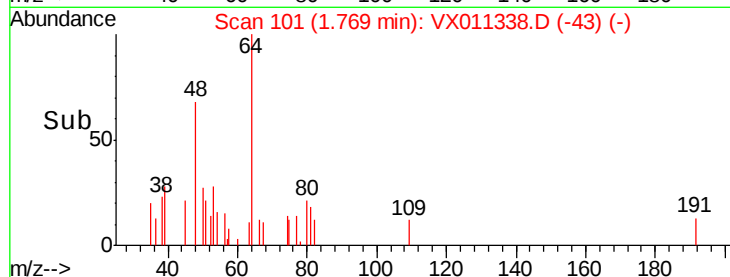
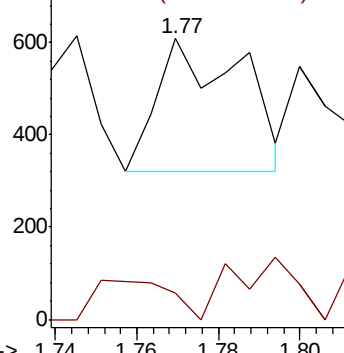
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 1.311 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011338.D

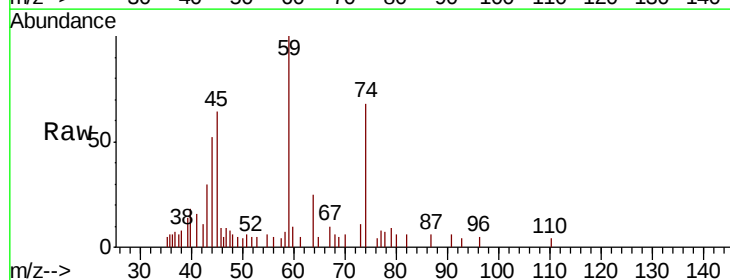
Acq: 05 Aug 2019 19:57

Tgt Ion: 74 Resp: 1448

Ion Ratio Lower Upper

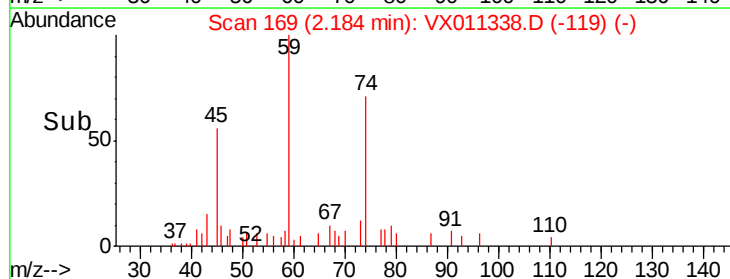
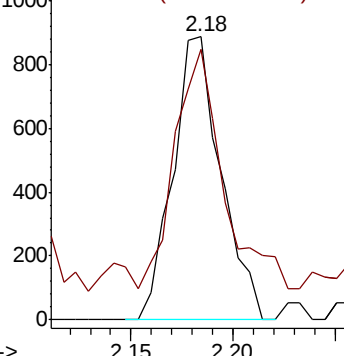
74 100

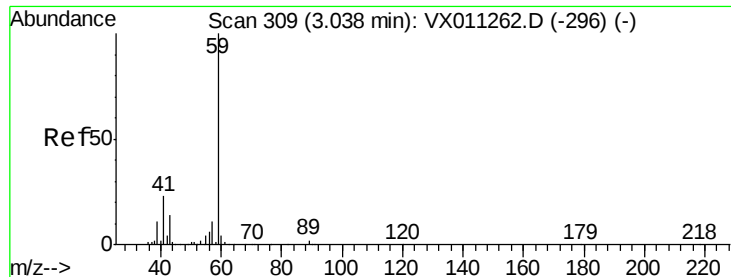
45 88.6 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

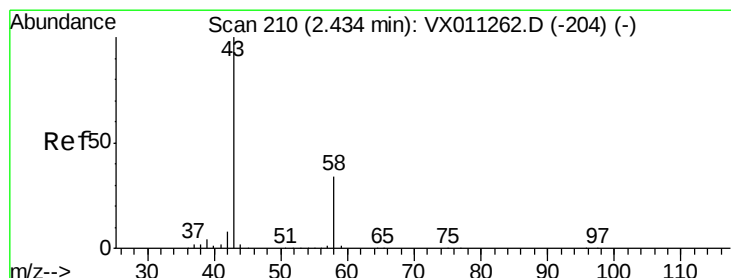
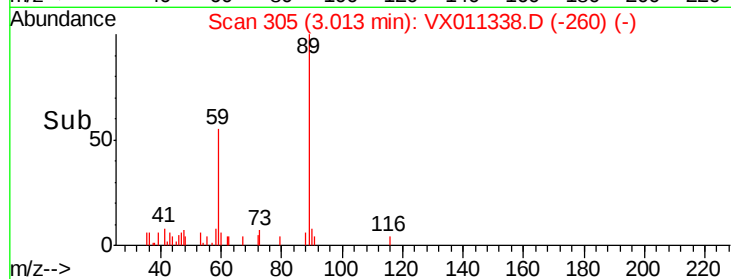
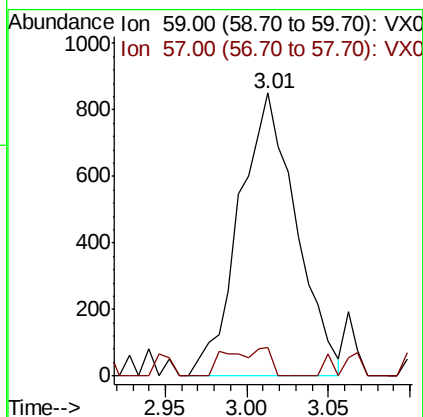
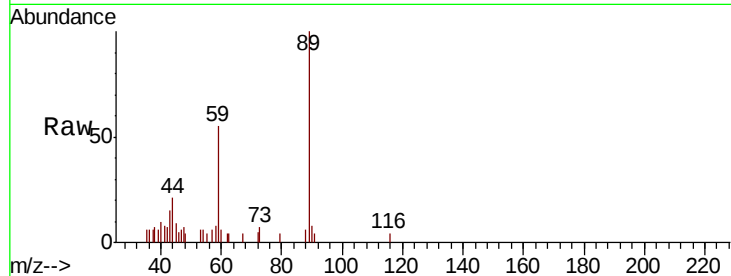




#11
Tert butyl alcohol
Concen: 5.648 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

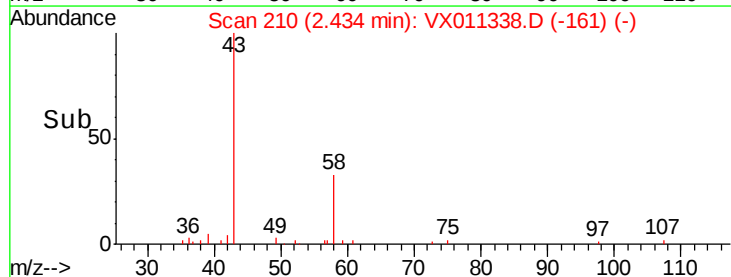
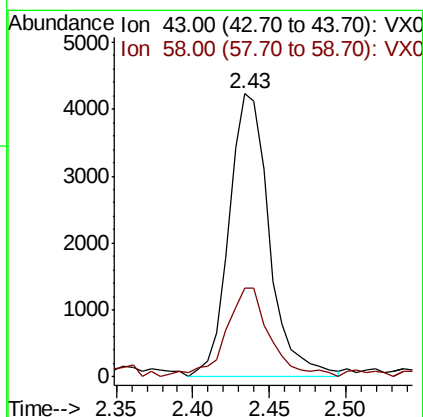
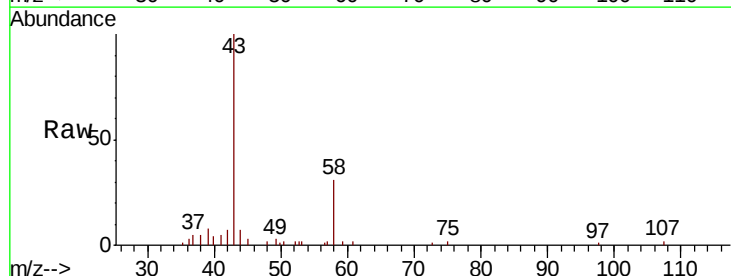
Instrument :
MSVOA_X
ClientSampleId :

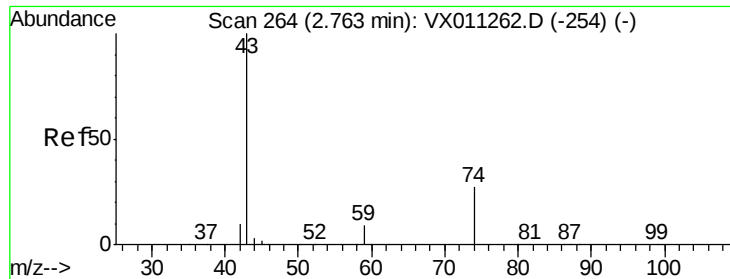
Tot Ion: 59 Resp: 2060
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 8.841 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

Tgt Ion: 43 Resp: 7727
Ion Ratio Lower Upper
43 100
58 31.3 27.4 41.0

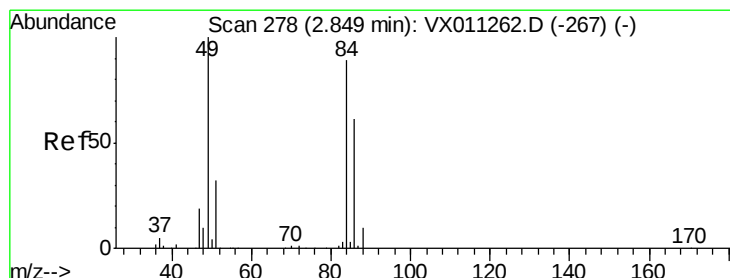
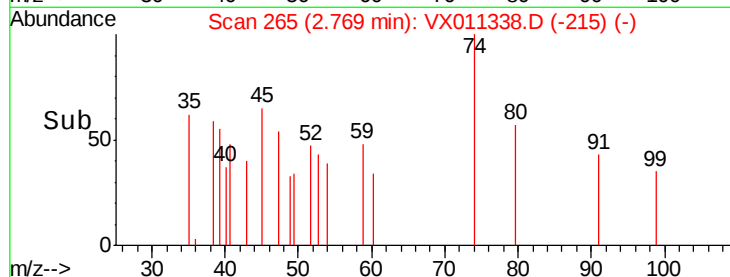
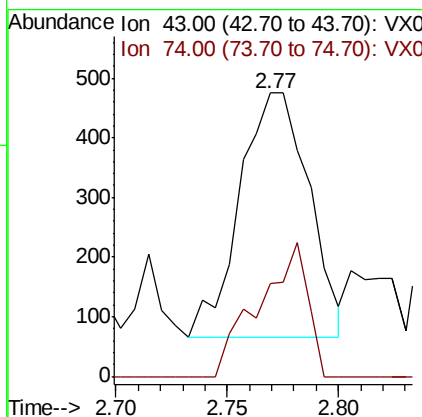
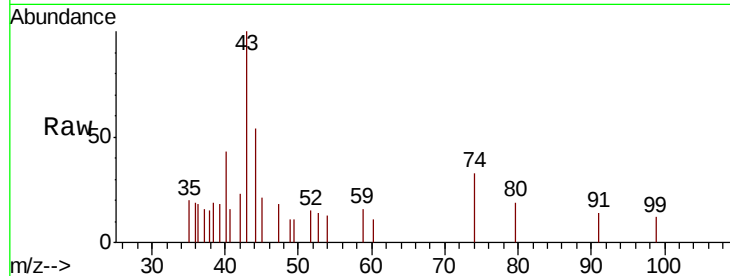




#18
Methyl Acetate
Concen: 0.445 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

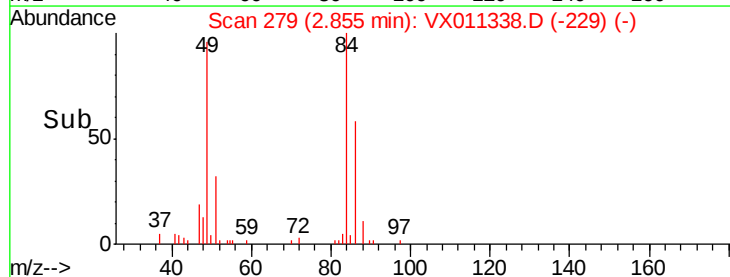
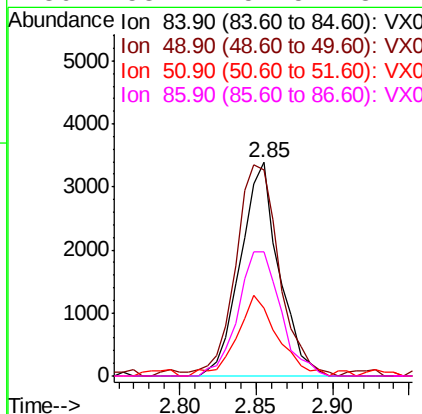
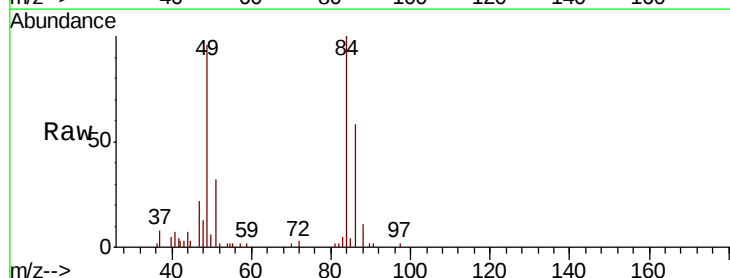
Instrument :
MSVOA_X
ClientSampleId :

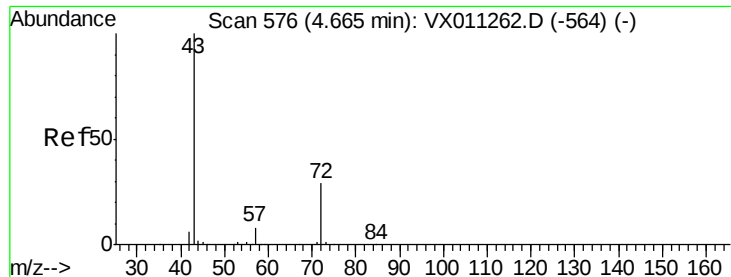
Tot Ion: 43 Resp: 888
Ion Ratio Lower Upper
43 100
74 38.2 21.0 31.6#



#20
Methylene Chloride
Concen: 3.087 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

Tgt Ion: 84 Resp: 5910
Ion Ratio Lower Upper
84 100
49 96.3 89.3 133.9
51 30.2 28.3 42.5
86 58.4 54.5 81.7





#25

2-Butanone

Concen: 0.468 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

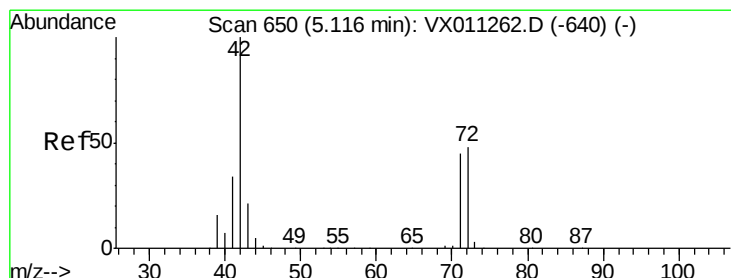
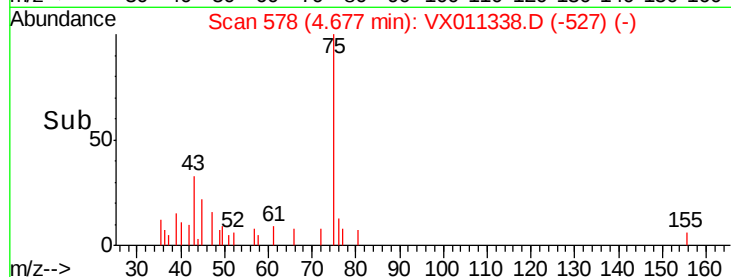
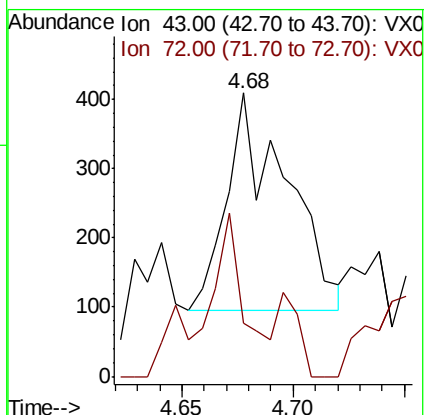
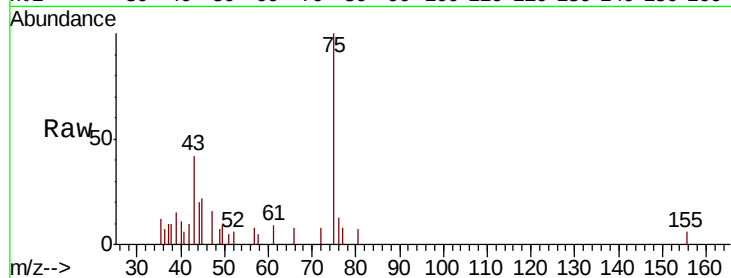
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 582

Ion Ratio Lower Upper

43 100

72 24.3 23.2 34.8



#29

Tetrahydrofuran

Concen: 0.231 ug/l

RT: 5.09 min Scan# 646

Delta R.T. -0.02 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

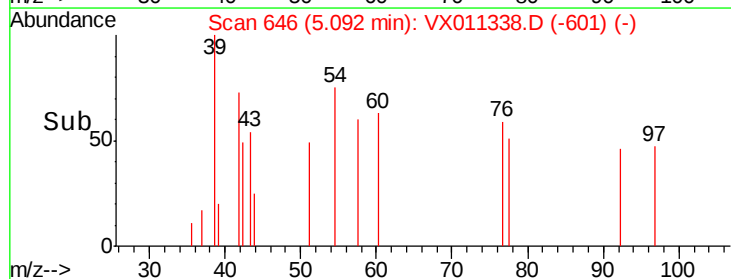
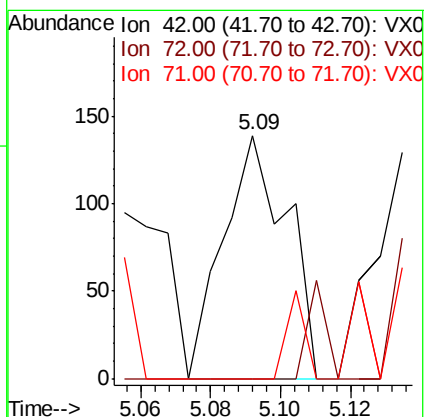
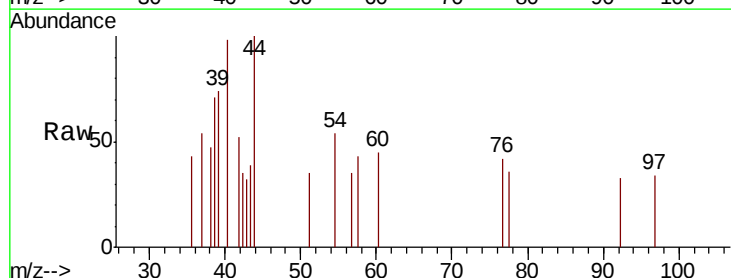
Tgt Ion: 42 Resp: 176

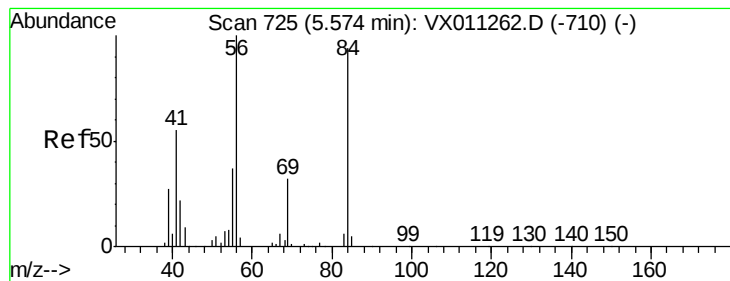
Ion Ratio Lower Upper

42 100

72 11.4 39.9 59.9#

71 10.2 36.9 55.3#





#31

Cyclohexane

Concen: 1.533 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :
MSVOA_X
ClientSampled :

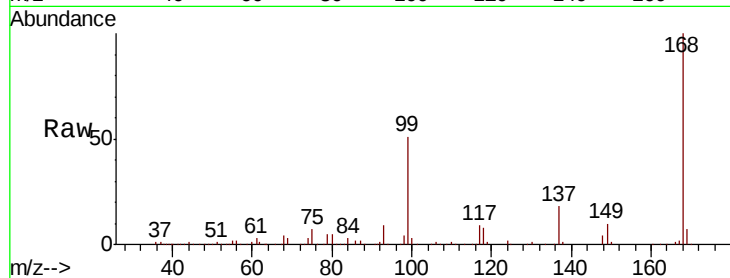
Tot Ion: 56 Resp: 3625

Ion Ratio Lower Upper

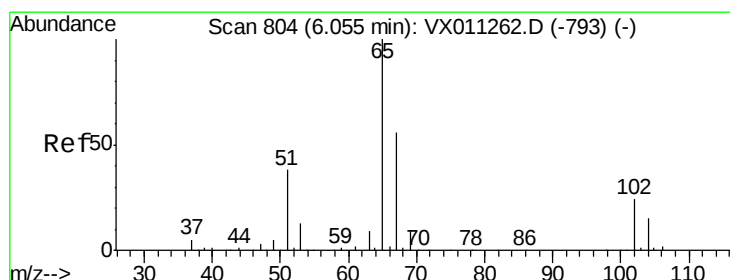
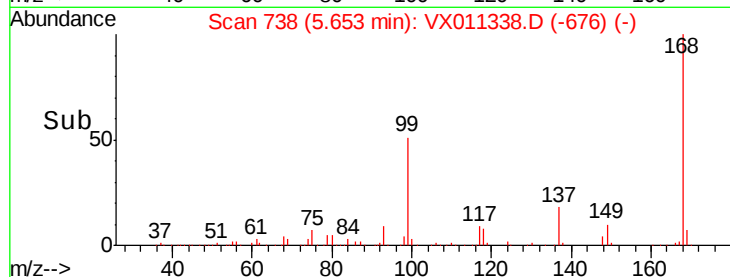
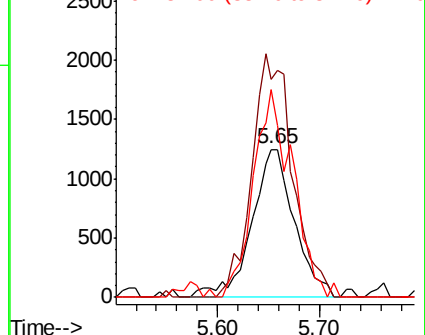
56 100

69 146.9 25.5 38.3#

84 140.0 75.0 112.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.535 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011338.D

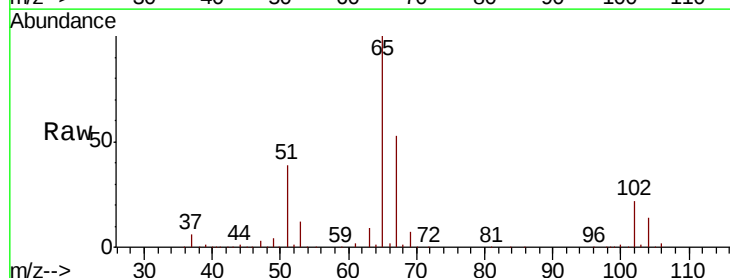
Acq: 05 Aug 2019 19:57

Tgt Ion: 65 Resp: 89124

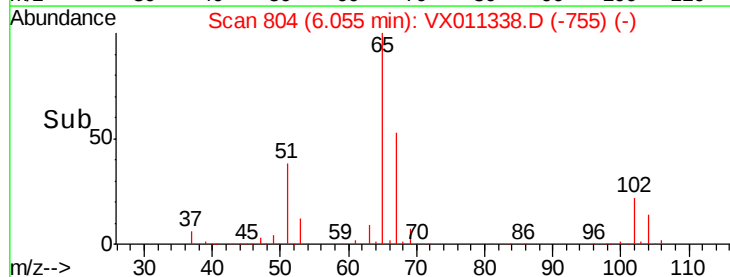
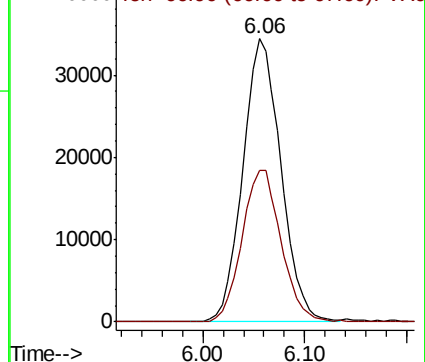
Ion Ratio Lower Upper

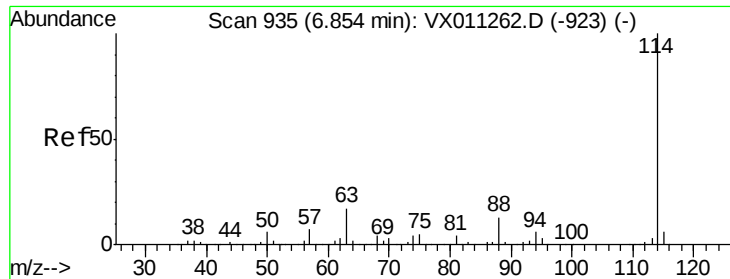
65 100

67 55.1 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

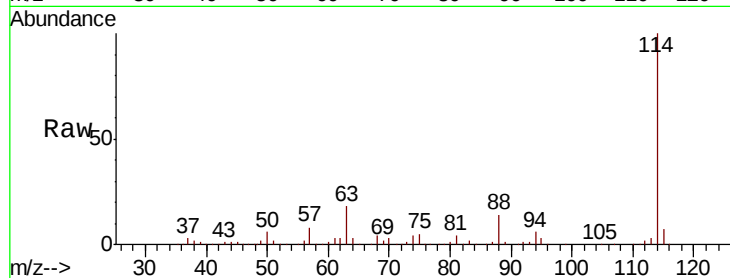




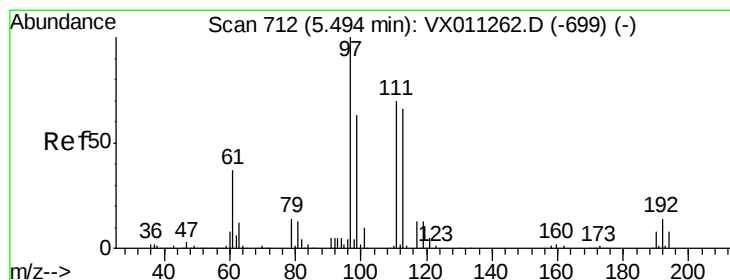
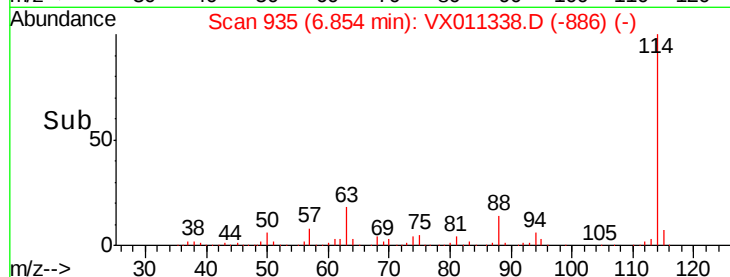
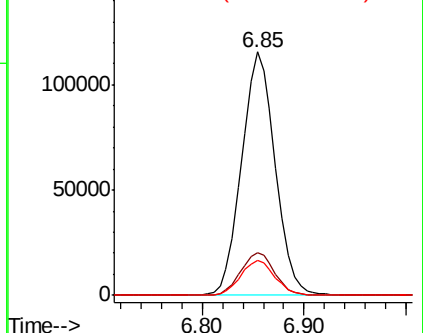
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011338.D
 Acq: 05 Aug 2019 19:57

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 264349
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 34.0
 88 14.4 0.0 26.4

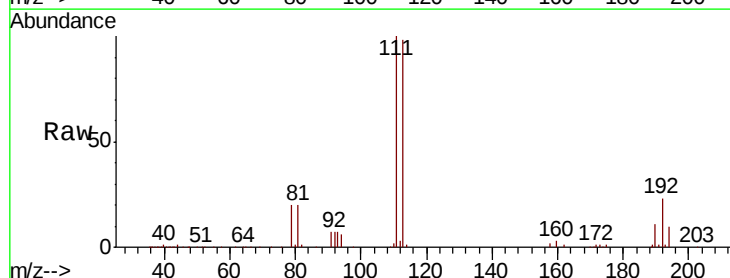


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

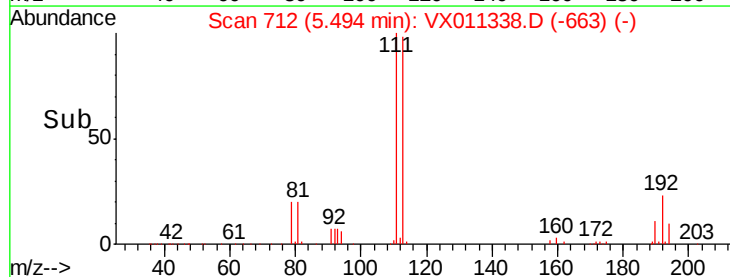
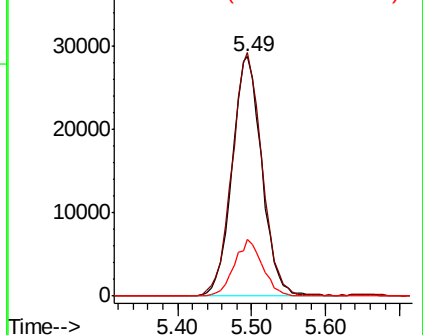


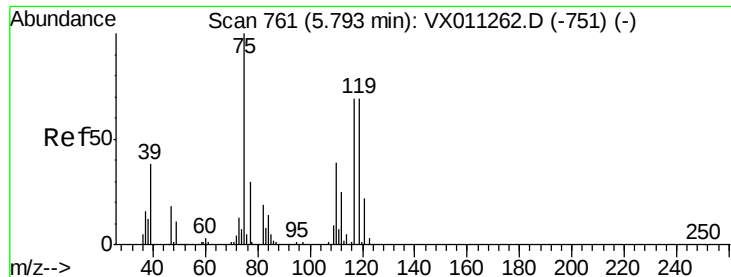
#35
 Dibromofluoromethane
 Concen: 46.486 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011338.D
 Acq: 05 Aug 2019 19:57

Tgt Ion:113 Resp: 80229
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.9 122.9
 192 22.3 17.8 26.8



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: 5.292 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

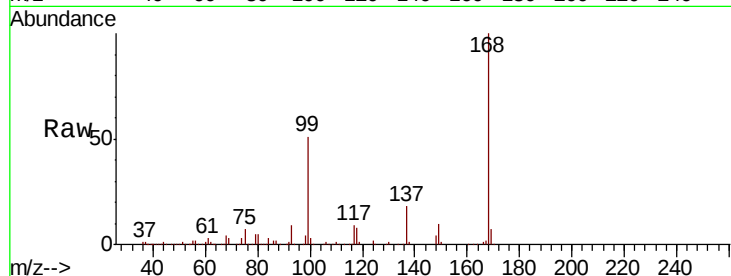
Tot Ion: 75 Resp: 12214

Ion Ratio Lower Upper

75 100

110 11.0 20.0 59.9#

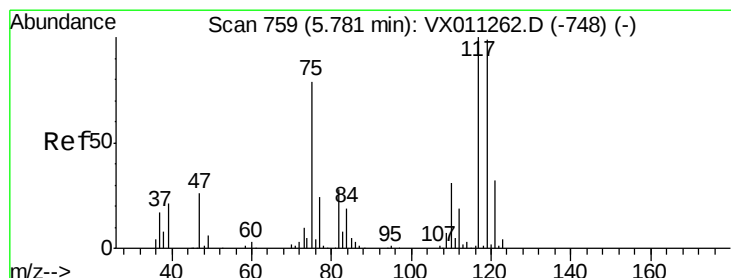
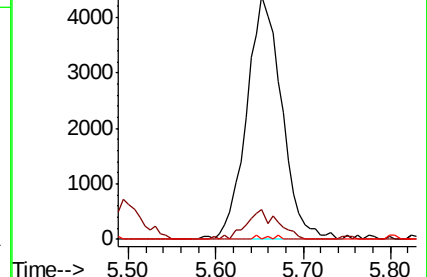
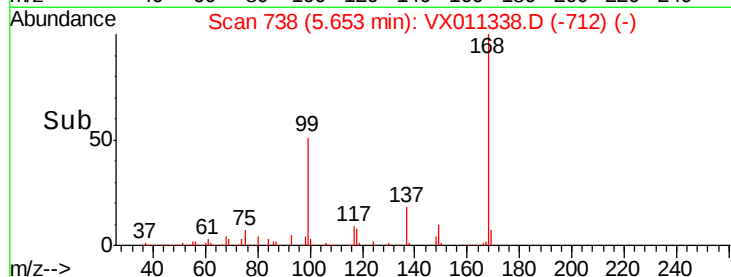
77 0.2 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX011338.D (-712) (-)

Ion 109.90 (109.60 to 110.60): VX011338.D (-712) (-)

Ion 76.90 (76.60 to 77.60): VX011338.D (-712) (-)



#38

Carbon Tetrachloride

Concen: 6.978 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

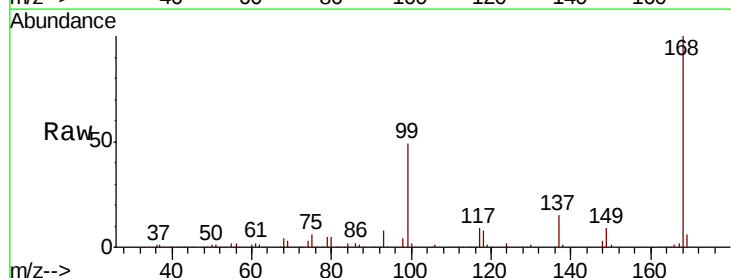
Tgt Ion: 117 Resp: 16203

Ion Ratio Lower Upper

117 100

119 5.8 79.0 118.4#

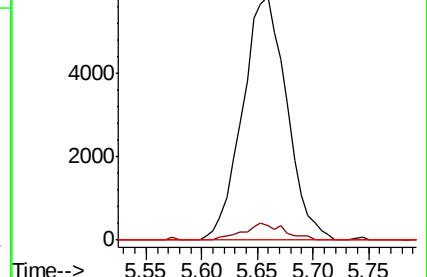
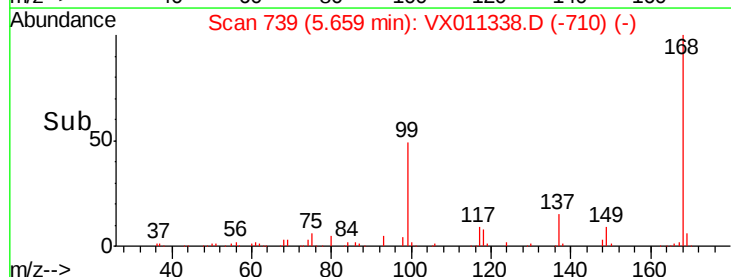
121 0.0 25.9 38.9#

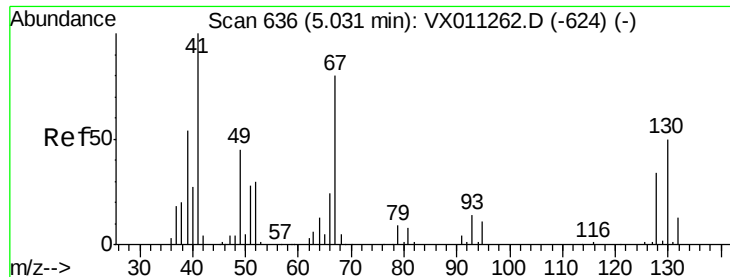


Abundance Ion 116.80 (116.50 to 117.50): VX011338.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX011338.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX011338.D (-710) (-)

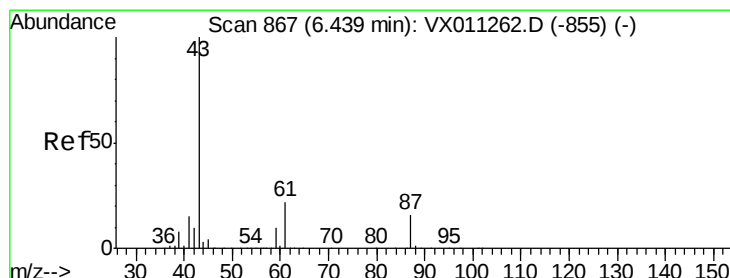
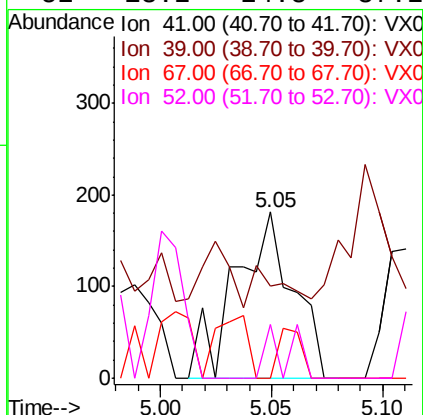
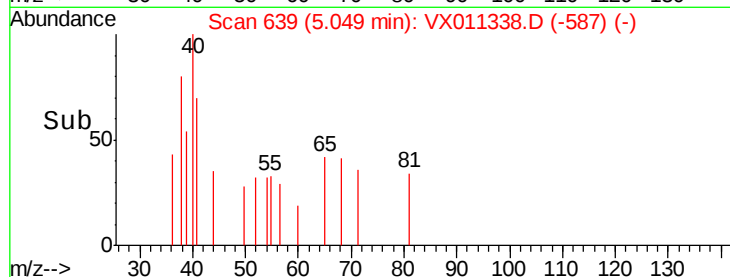
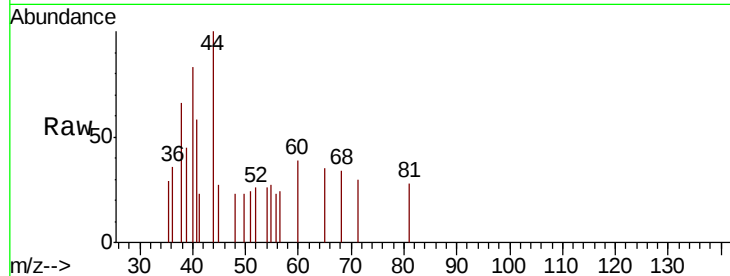




#41
Methacrylonitrile
Concen: 0.257 ug/l
RT: 5.05 min Scan# 639
Delta R.T. 0.02 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

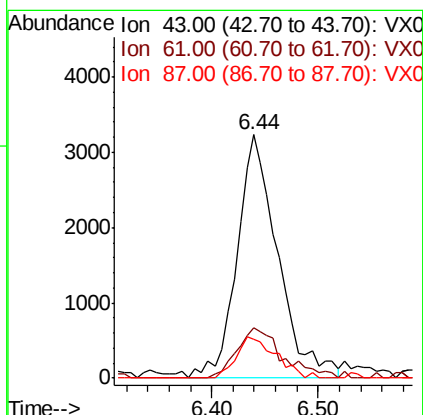
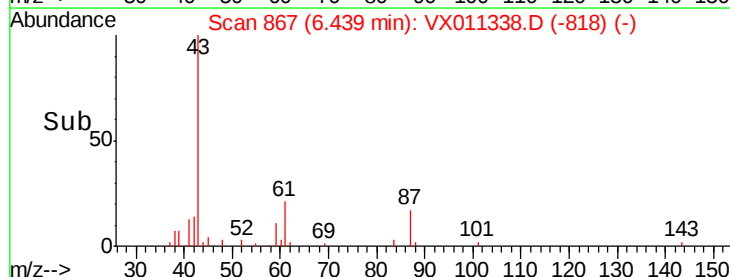
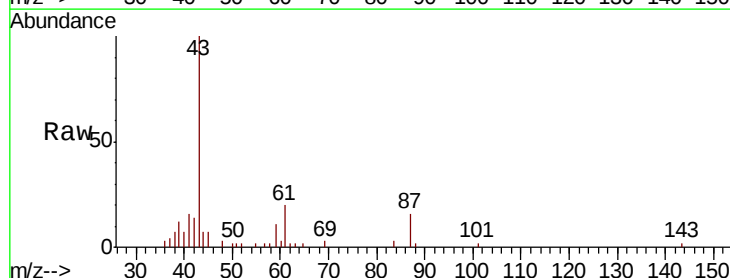
Instrument :
MSVOA_X
ClientSampleId :

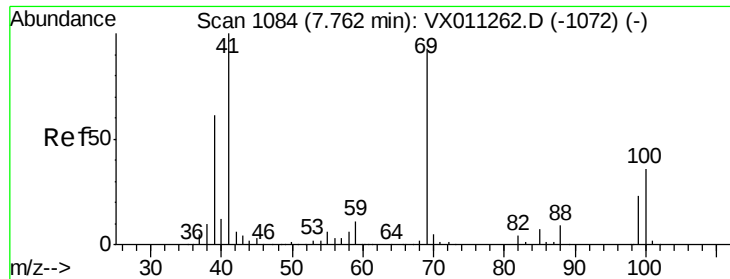
Tot Ion: 41 Resp: 325
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.6#
67 11.7 65.1 97.7#
52 13.2 24.8 37.2#



#43
Isopropyl Acetate
Concen: 2.339 ug/l
RT: 6.44 min Scan# 867
Delta R.T. 0.00 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

Tgt Ion: 43 Resp: 8657
Ion Ratio Lower Upper
43 100
61 23.1 16.5 24.7
87 16.5 12.1 18.1

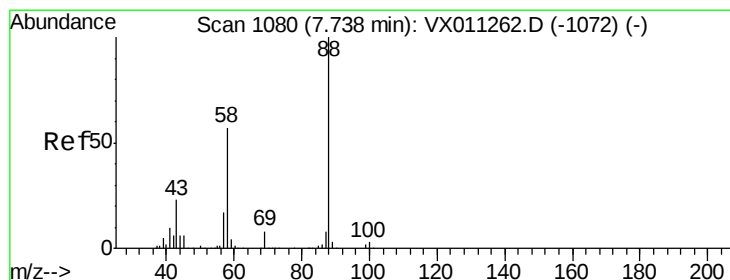
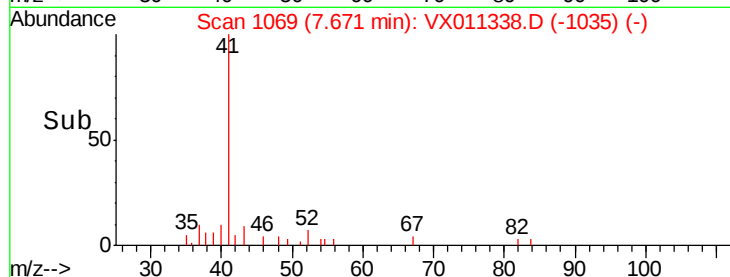
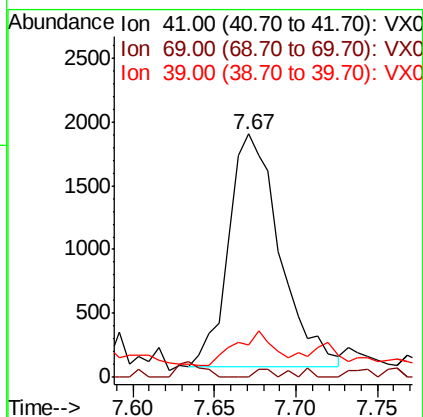
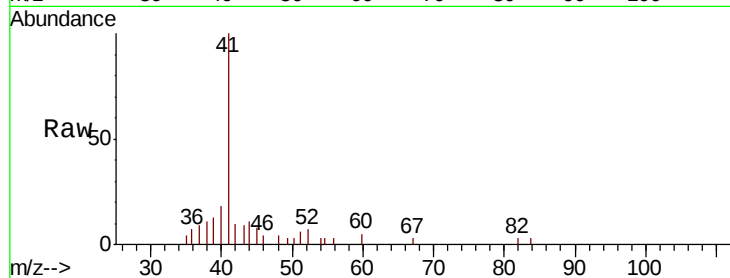




#48
Methvl methacrylate
Concen: 2.274 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

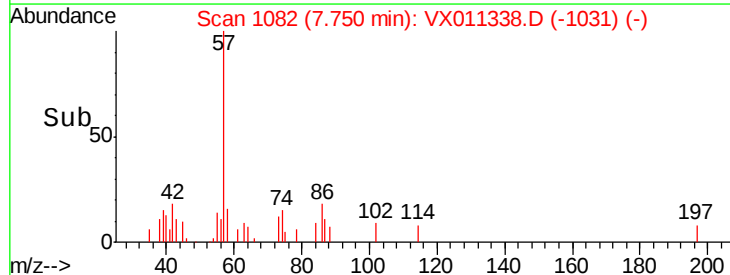
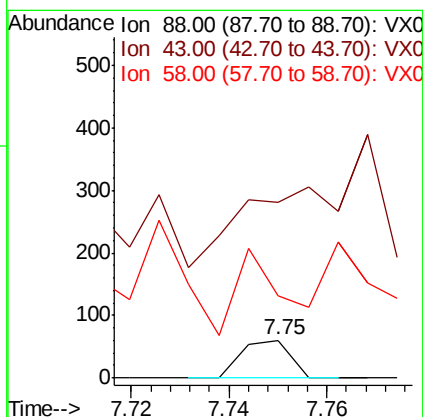
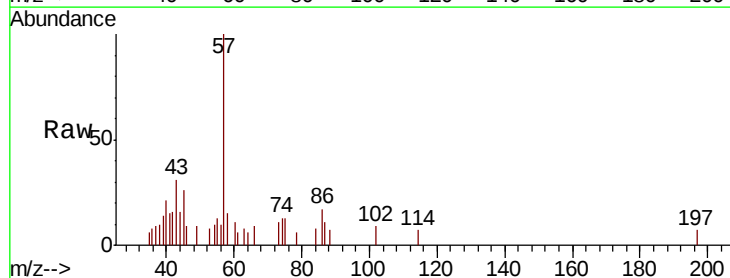
Instrument :
MSVOA_X
ClientSampleId :

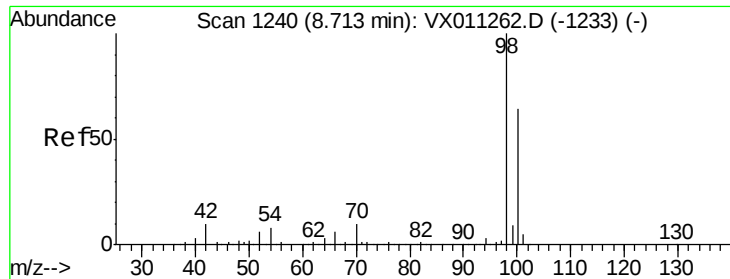
Tot Ion: 41 Resp: 3961
Ion Ratio Lower Upper
41 100
69 1.2 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.812 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX011338.D
Acq: 05 Aug 2019 19:57

Tgt Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 402.4 47.8 71.8#





#50

Toluene-d8

Concen: 49.135 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :

MSVOA_X

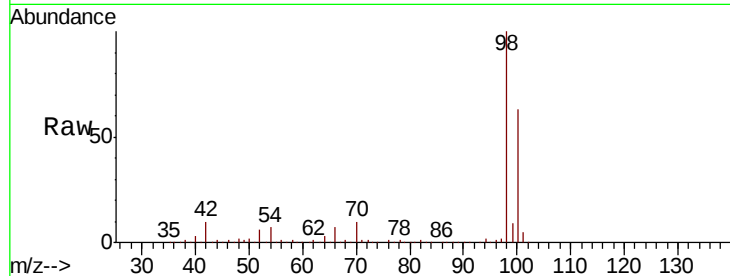
ClientSampleId :

Tot Ion: 98 Resp: 320095

Ion Ratio Lower Upper

98 100

100 63.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

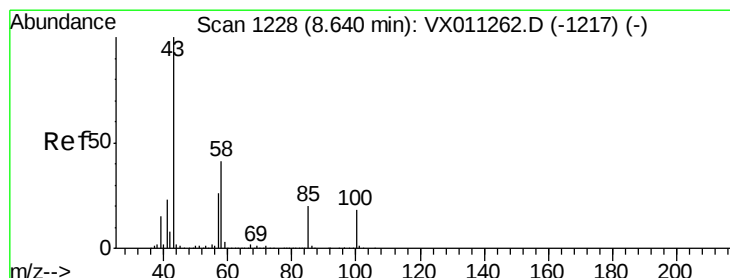
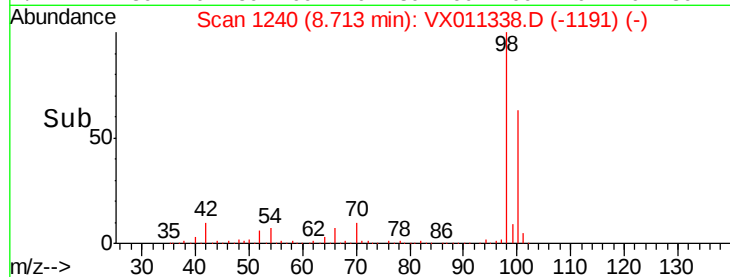
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 17.184 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011338.D

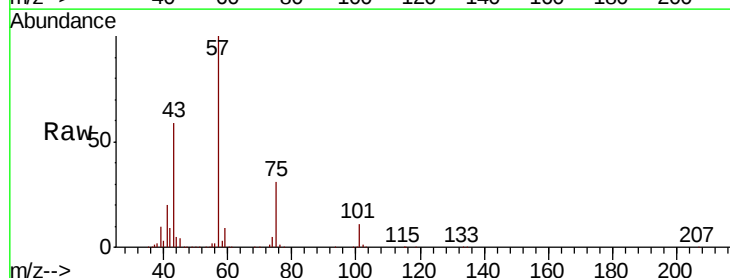
Acq: 05 Aug 2019 19:57

Tgt Ion: 43 Resp: 41047

Ion Ratio Lower Upper

43 100

58 7.8 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.61

30000

25000

20000

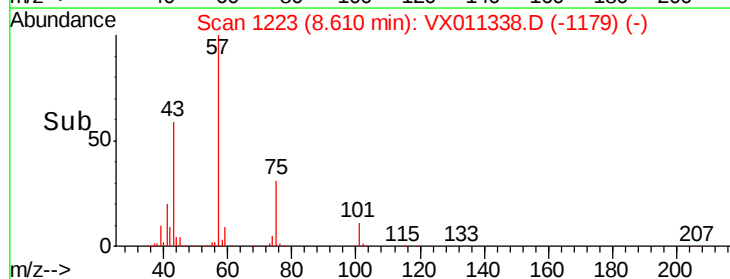
15000

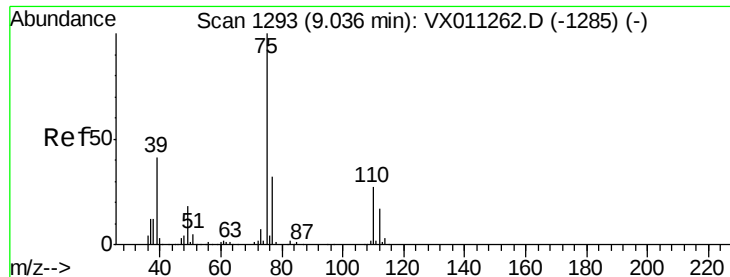
10000

5000

0

Time--> 8.50 8.55 8.60 8.65 8.70

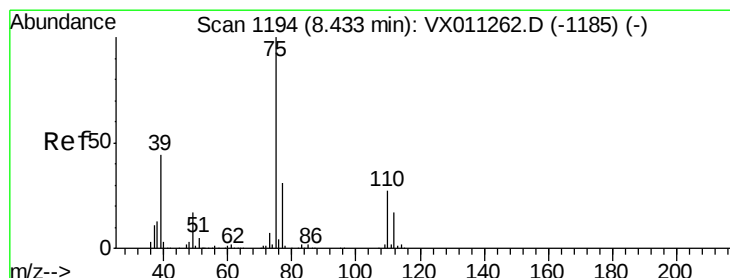
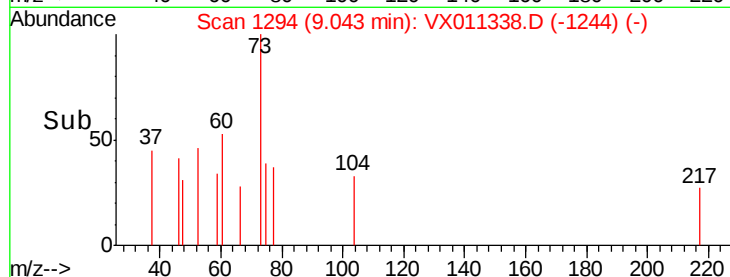
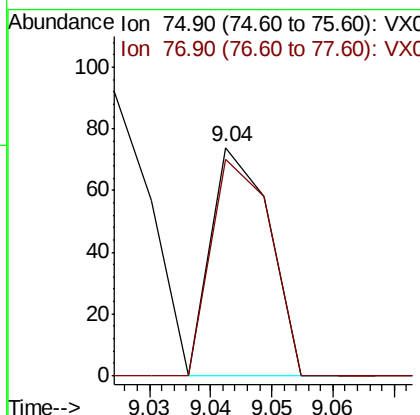
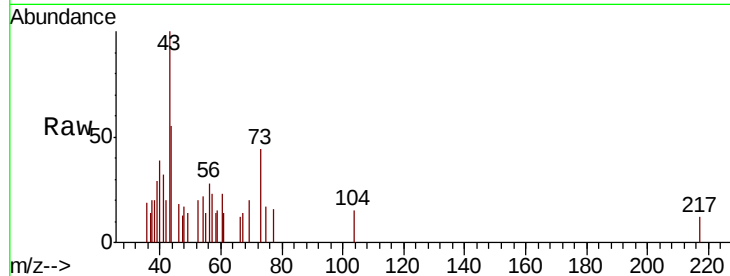




#53
 t-1,3-Dichloropropene
 Concen: 2.856 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. 0.01 min
 Lab File: VX011338.D
 Acq: 05 Aug 2019 19:57

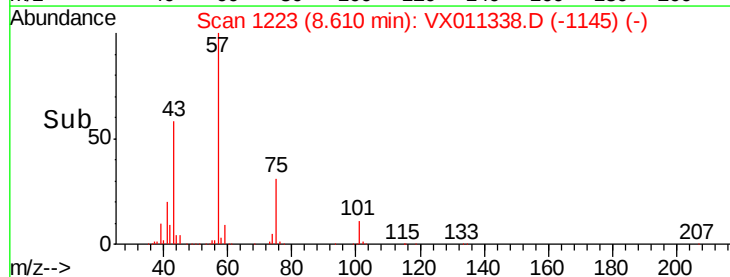
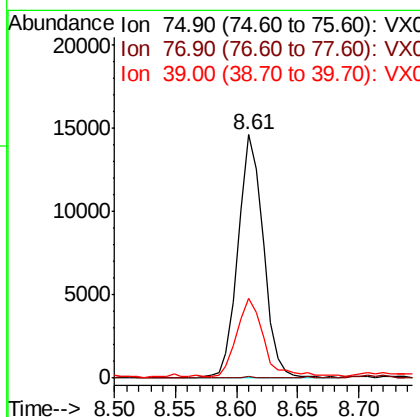
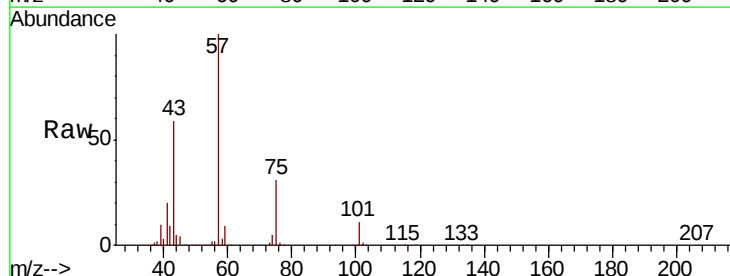
Instrument :
 MSVOA_X
 ClientSampled :

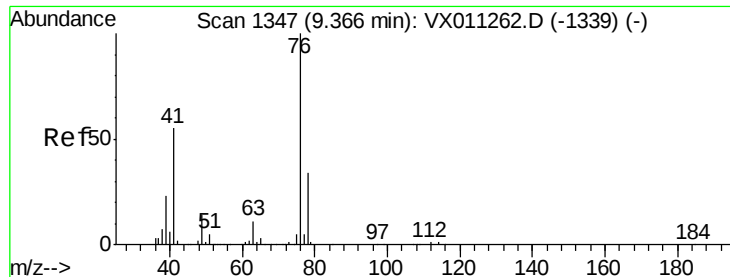
Tot Ion: 75 Resp: 48
 Ion Ratio Lower Upper
 75 100
 77 94.6 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 8.137 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011338.D
 Acq: 05 Aug 2019 19:57

Tgt Ion: 75 Resp: 20956
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.0 37.6#
 39 32.1 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 1.771 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :

MSVOA_X

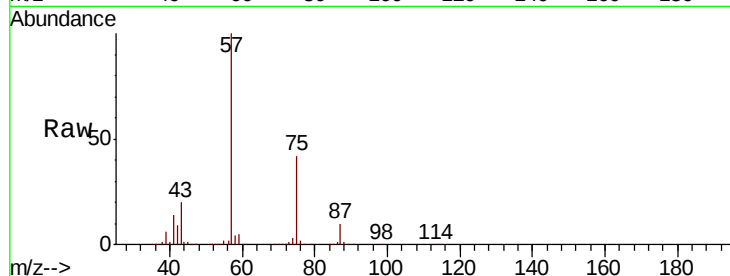
ClientSampleId :

Tot Ion: 76 Resp: 5243

Ion Ratio Lower Upper

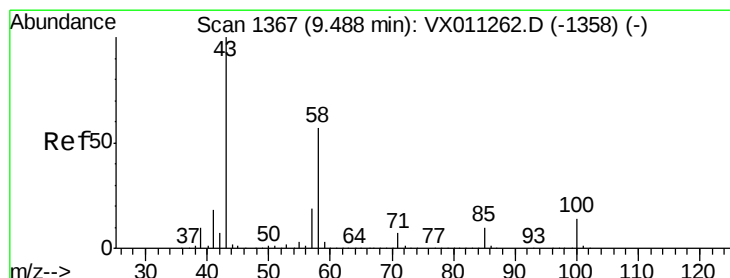
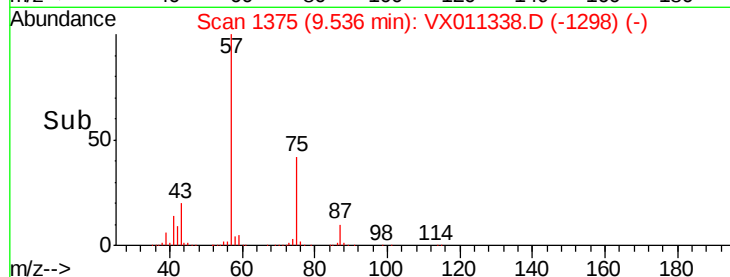
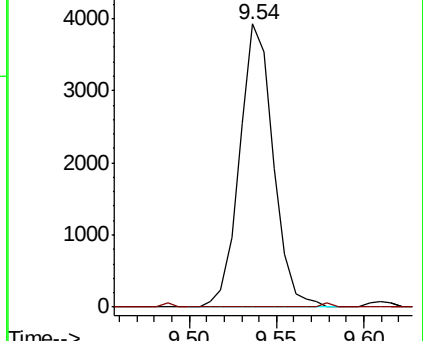
76 100

78 0.0 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 34.440 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011338.D

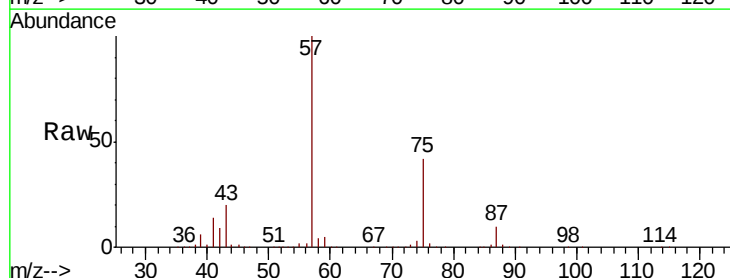
Acq: 05 Aug 2019 19:57

Tgt Ion: 43 Resp: 63720

Ion Ratio Lower Upper

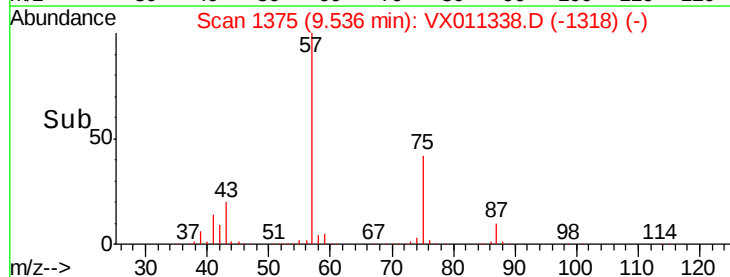
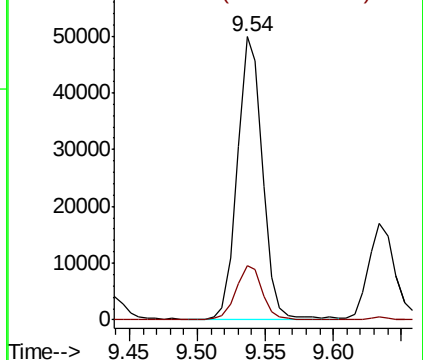
43 100

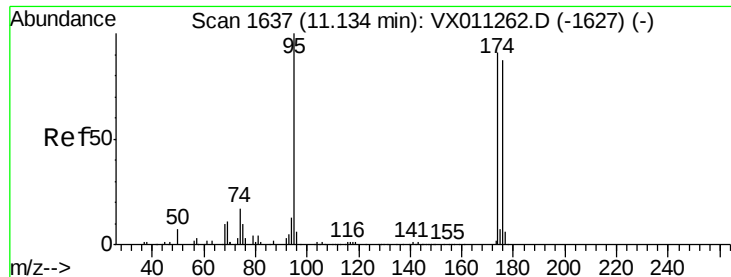
58 20.5 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.463 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

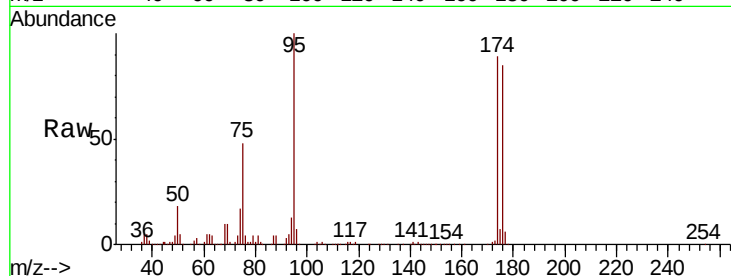
Tot Ion: 95 Resp: 103417

Ion Ratio Lower Upper

95 100

174 93.8 0.0 191.2

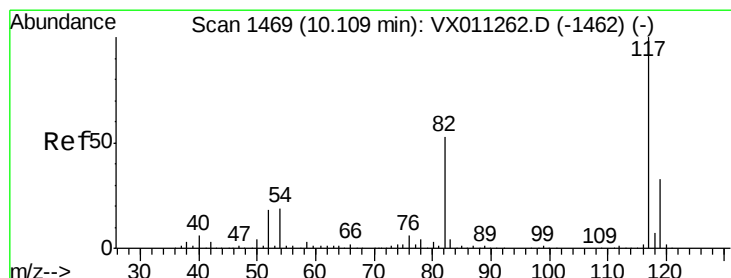
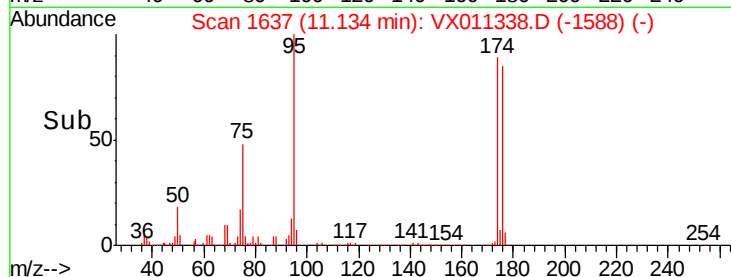
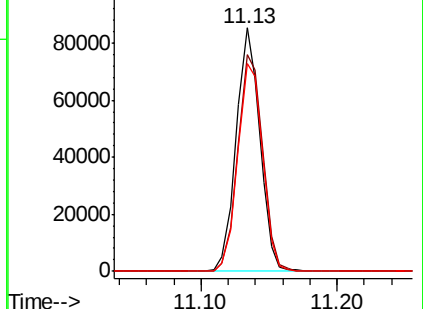
176 89.8 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX011262.D (-1627) (-)

Ion 173.80 (173.50 to 174.50): VX011262.D (-1627) (-)

Ion 175.80 (175.50 to 176.50): VX011262.D (-1627) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

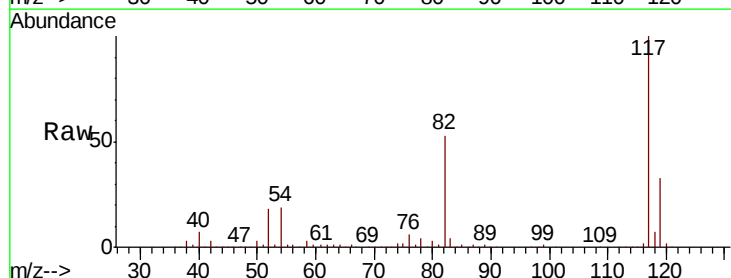
Tgt Ion: 117 Resp: 246454

Ion Ratio Lower Upper

117 100

82 52.8 42.2 63.2

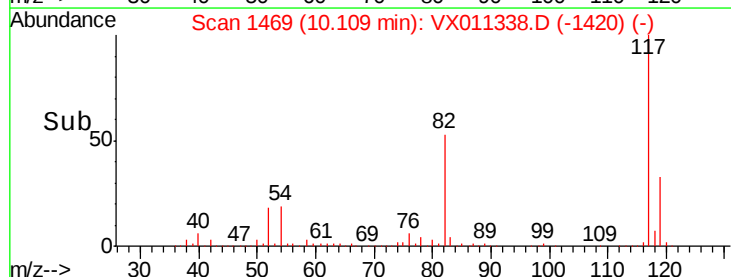
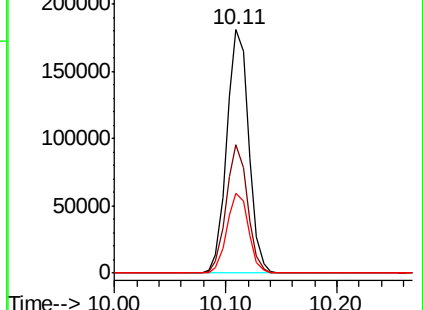
119 32.8 26.6 39.8

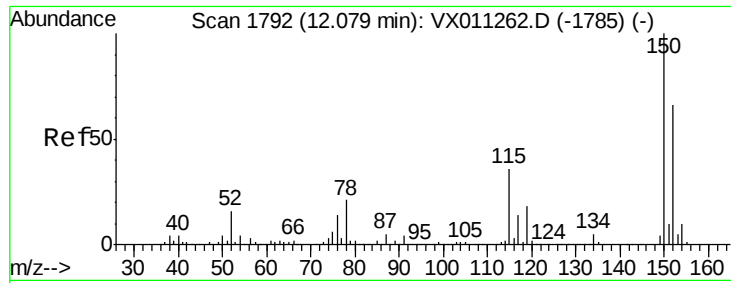


Abundance Ion 116.90 (116.60 to 117.60): VX011262.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011262.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011262.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

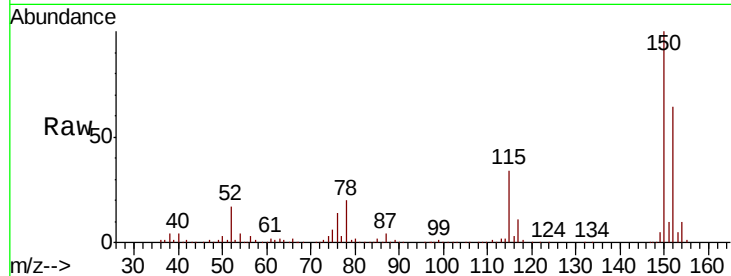
Tot Ion:152 Resp: 109838

Ion Ratio Lower Upper

152 100

115 54.9 40.0 119.9

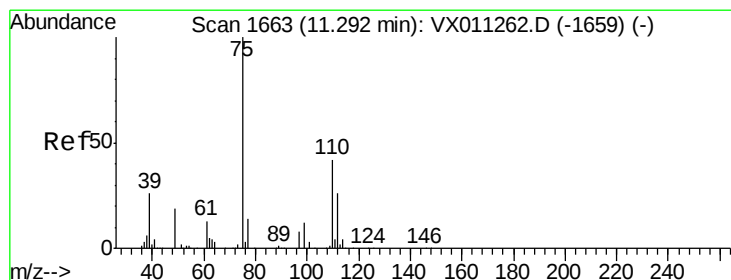
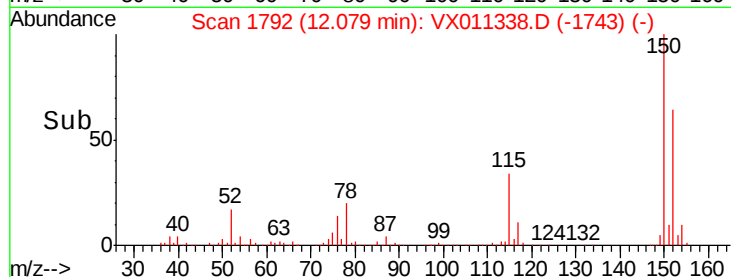
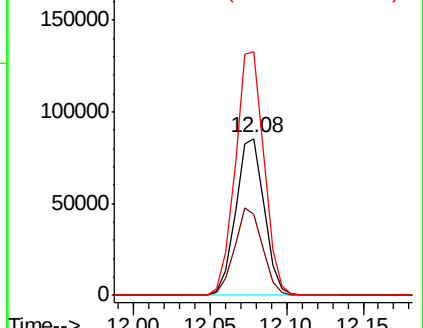
150 157.0 0.0 350.4



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: 25.328 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011338.D

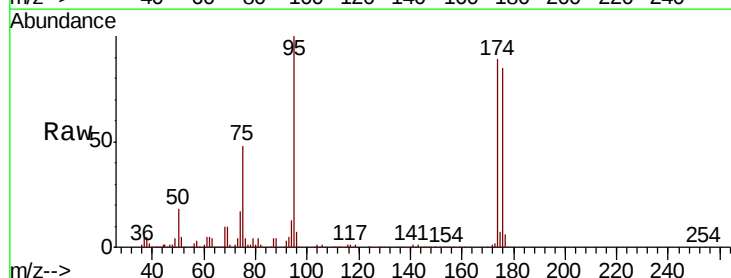
Acq: 05 Aug 2019 19:57

Tgt Ion: 75 Resp: 50663

Ion Ratio Lower Upper

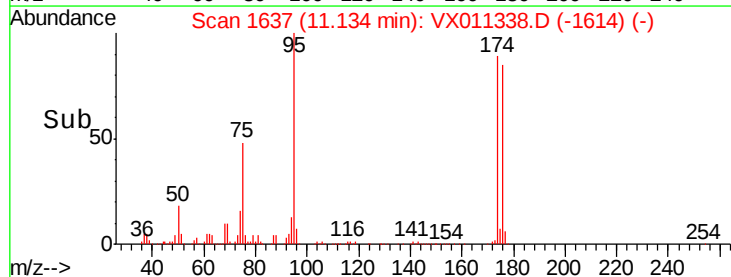
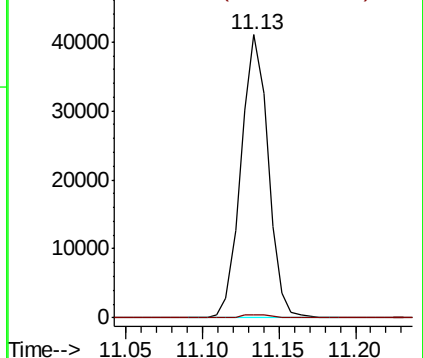
75 100

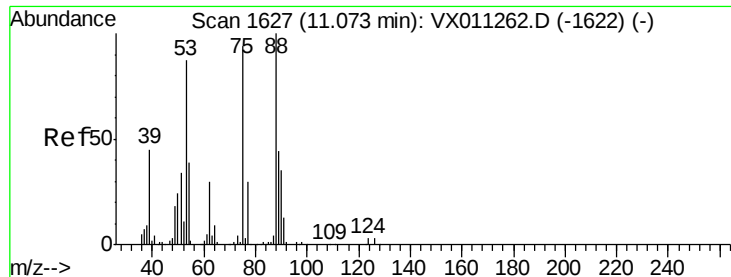
77 1.4 21.1 63.4#



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: 66.036 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011338.D

Acq: 05 Aug 2019 19:57

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 50663

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 37.9 56.9#

