

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011720\
 Data File : VX014651.D
 Acq On : 17 Jan 2020 13:48
 Operator : JC/SP
 Sample : L1178-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

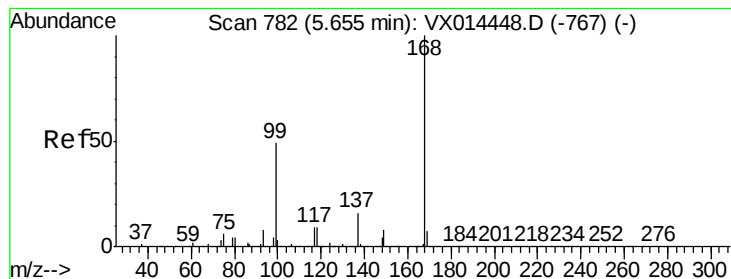
Quant Time: Jan 18 05:07:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	438461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	684385	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	610768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	262848	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	253734	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
35) Dibromofluoromethane	5.49	113	205083	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	8.71	98	806896	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	11.13	95	266392	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	716	0.383	ug/l #	42
3) Chloromethane	1.32	50	2009	0.359	ug/l #	70
5) Bromomethane	1.65	94	1583	0.383	ug/l #	74
6) Chloroethane	1.71	64	131	Below Cal	#	1
11) Tert butyl alcohol	3.03	59	746	0.730	ug/l #	1
13) Acrolein	2.26	56	775	0.946	ug/l #	30
16) Acetone	2.43	43	11426	0.485	ug/l #	87
20) Methylene Chloride	2.85	84	3996	0.812	ug/l #	84
25) 2-Butanone	4.67	43	939	0.257	ug/l #	72
29) Tetrahydrofuran	5.11	42	688	0.318	ug/l #	84
36) 1,1-Dichloropropene	5.65	75	29918	4.649	ug/l #	50
38) Carbon Tetrachloride	5.65	117	38792	6.550	ug/l #	19
46) Dibromomethane	7.64	93	681	0.200	ug/l #	63
49) 1,4-Dioxane	7.73	88	100	0.873	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	130619	24.018	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	130619	63.499	ug/l #	12
88) 1,4-Dichlorobenzene	12.02	146	959	Below Cal		81
92) 1,2-Dibromo-3-Chloropropan	13.11	75	478	0.359	ug/l	58
93) 1,2,4-Trichlorobenzene	13.63	180	624	Below Cal		63
96) 1,2,3-Trichlorobenzene	14.01	180	701	Below Cal	#	76

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :

MSVOA_X

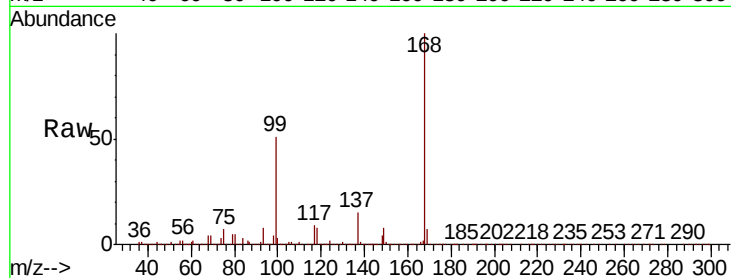
ClientSampleId :

Tot Ion:168 Resp: 438461

Ion Ratio Lower Upper

168 100

99 50.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

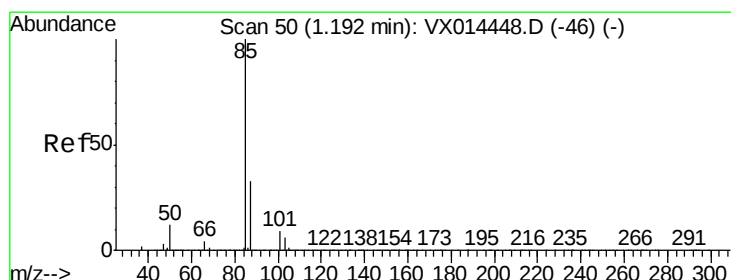
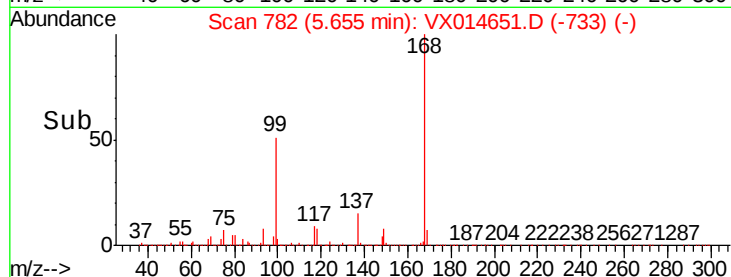
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.383 ug/l

RT: 1.21 min Scan# 53

Delta R.T. 0.02 min

Lab File: VX014651.D

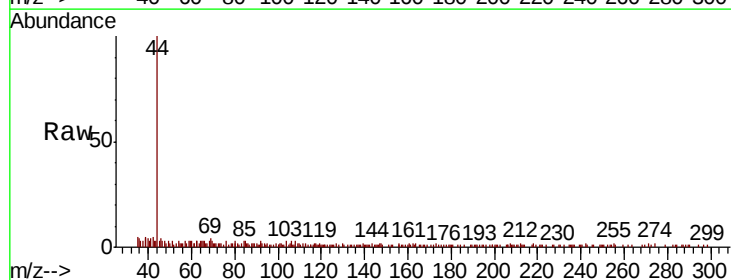
Acq: 17 Jan 2020 13:48

Tgt Ion: 85 Resp: 716

Ion Ratio Lower Upper

85 100

87 0.0 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.21

400

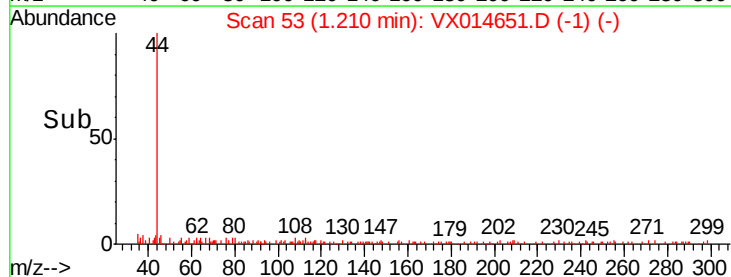
300

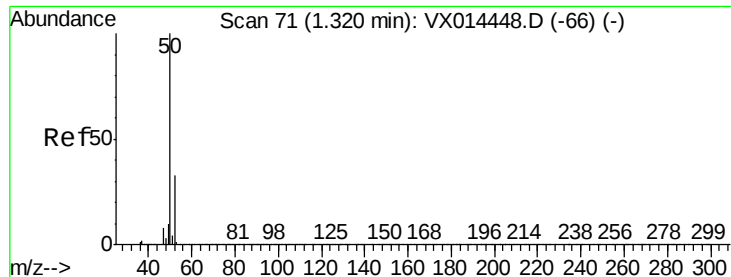
200

100

0

Time-->





#3

Chloromethane

Concen: 0.359 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :

MSVOA_X

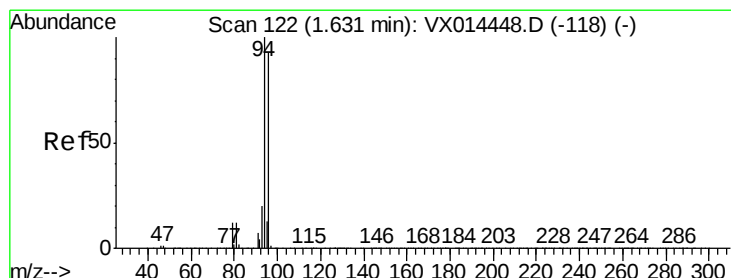
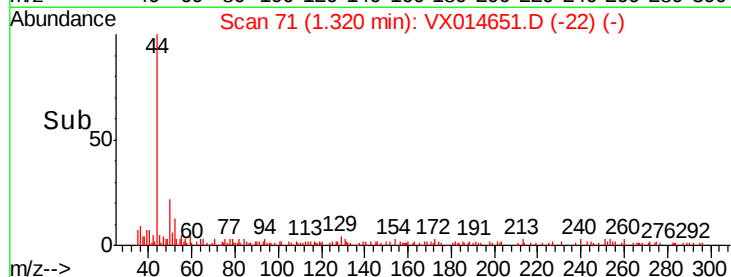
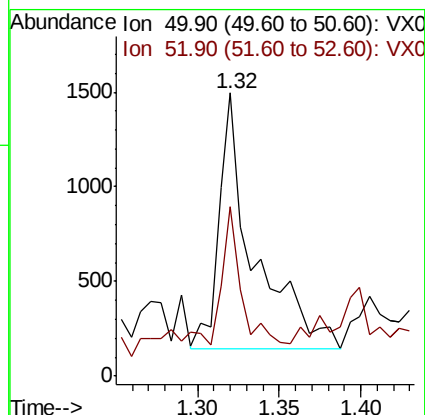
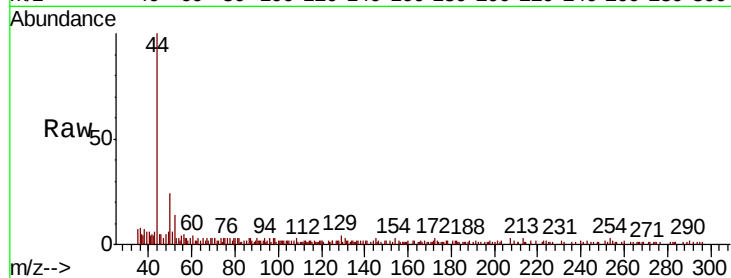
ClientSampleId :

Tot Ion: 50 Resp: 2009

Ion Ratio Lower Upper

50 100

52 49.2 26.1 39.1#



#5

Bromomethane

Concen: 0.383 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014651.D

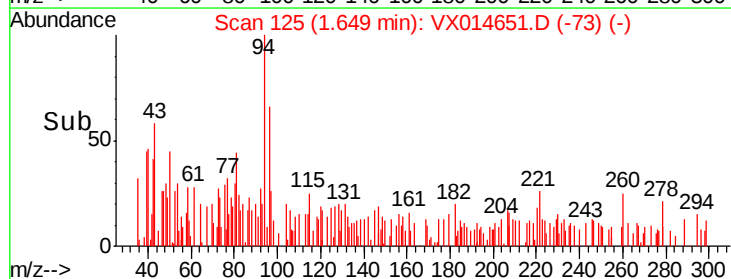
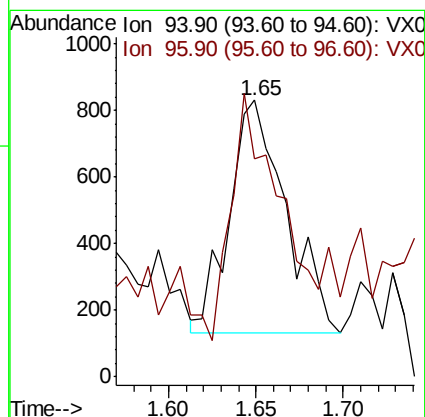
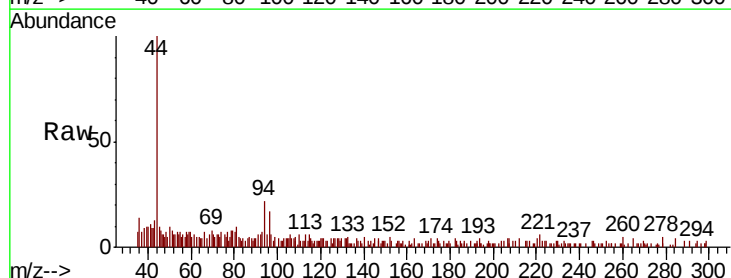
Acq: 17 Jan 2020 13:48

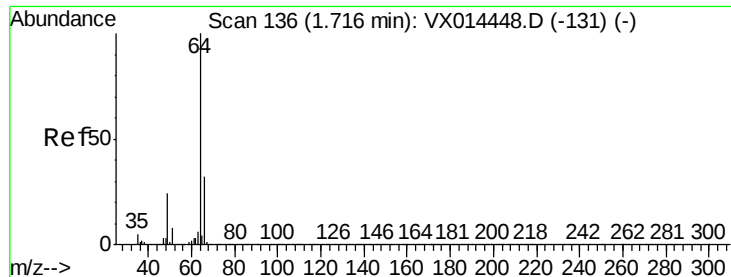
Tgt Ion: 94 Resp: 1583

Ion Ratio Lower Upper

94 100

96 67.6 74.2 111.2#





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 135

Delta R.T. -0.01 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :

MSVOA_X

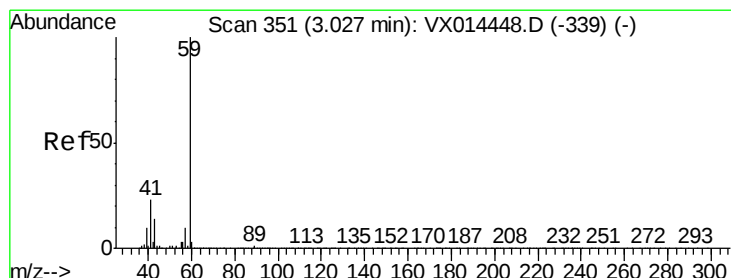
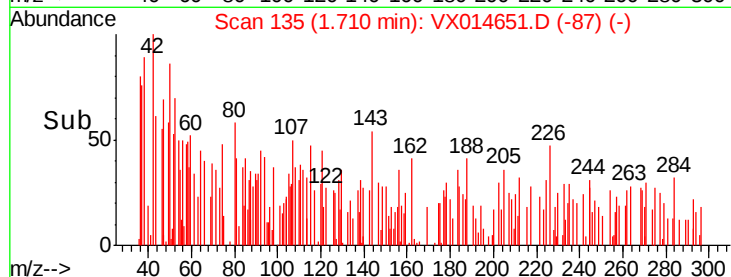
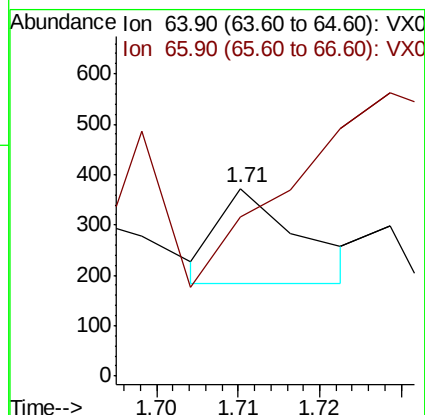
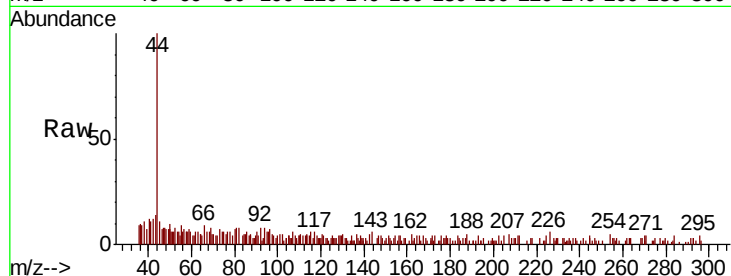
ClientSampleId :

Tot Ion: 64 Resp: 131

Ion Ratio Lower Upper

64 100

66 95.2 25.3 37.9#



#11

Tert butyl alcohol

Concen: 0.730 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.00 min

Lab File: VX014651.D

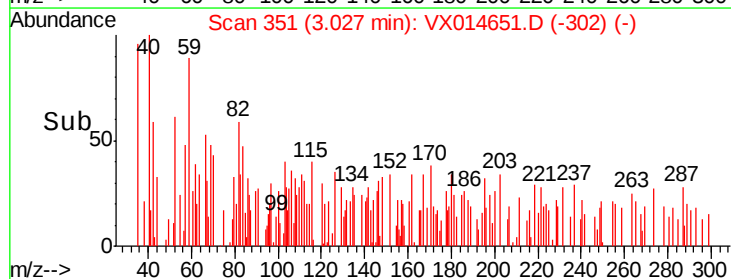
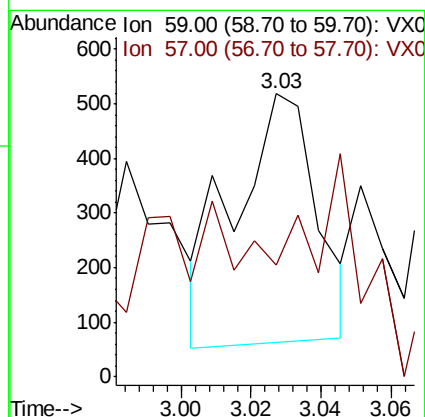
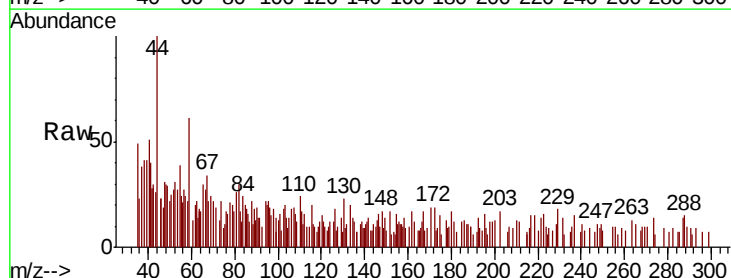
Acq: 17 Jan 2020 13:48

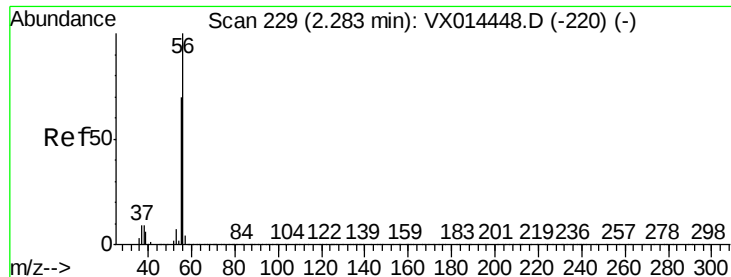
Tgt Ion: 59 Resp: 746

Ion Ratio Lower Upper

59 100

57 61.0 8.5 12.7#





#13

Acrolein

Concen: 0.946 ug/l

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

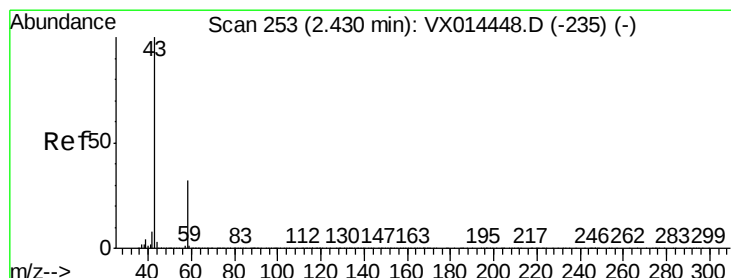
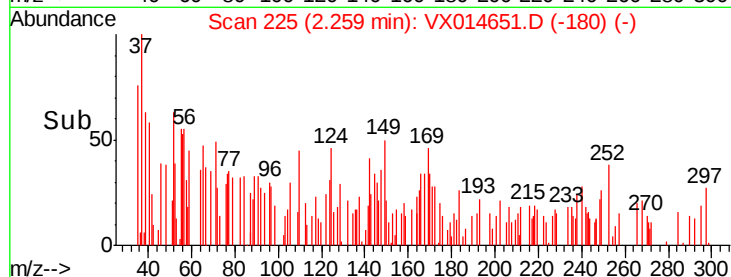
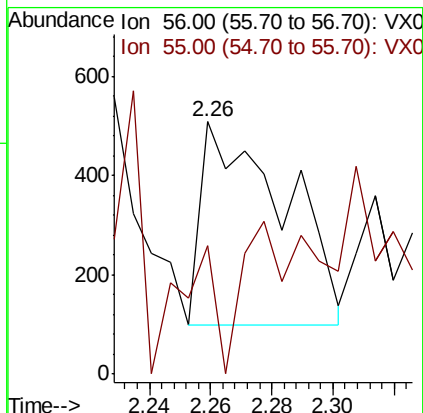
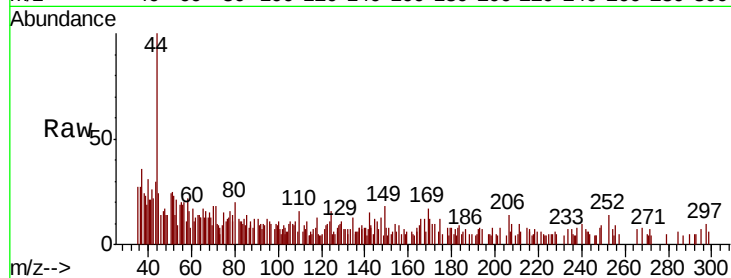
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 775

Ion Ratio Lower Upper

56 100

55 12.3 55.0 82.6#



#16

Acetone

Concen: 0.485 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014651.D

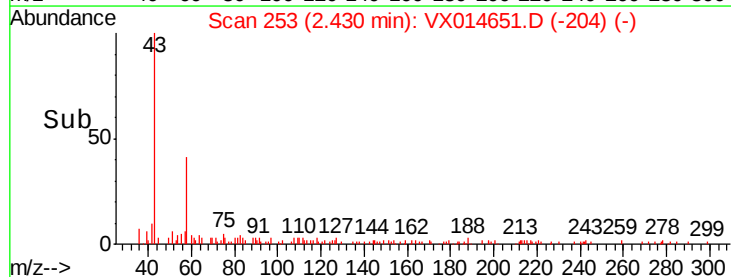
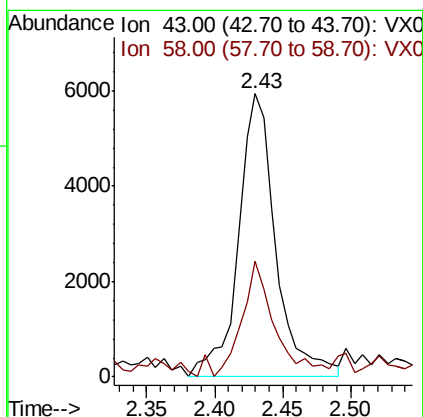
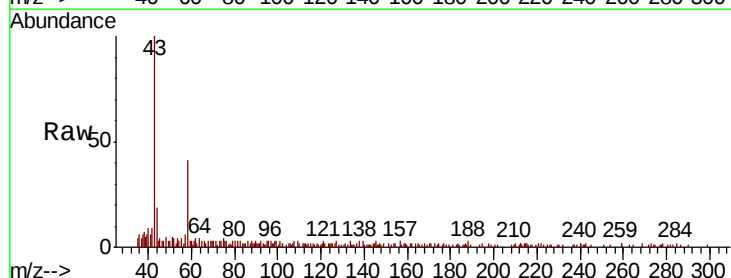
Acq: 17 Jan 2020 13:48

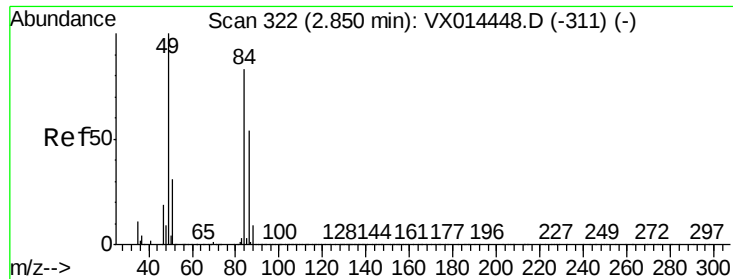
Tgt Ion: 43 Resp: 11426

Ion Ratio Lower Upper

43 100

58 39.1 25.4 38.0#

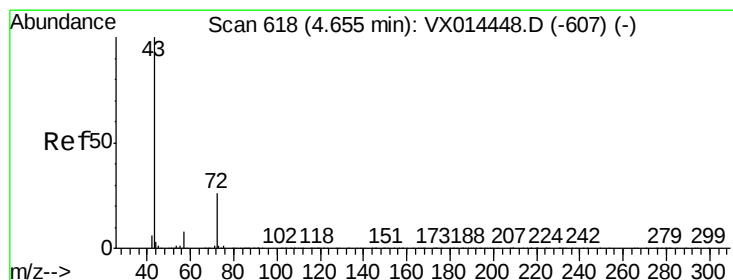
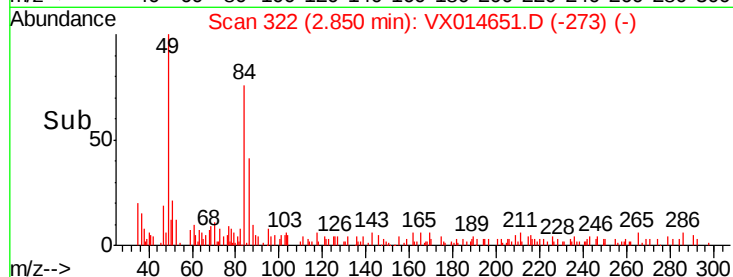
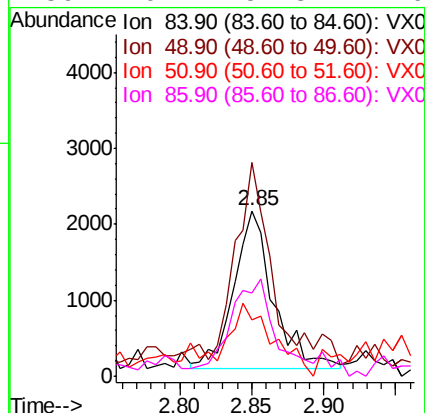
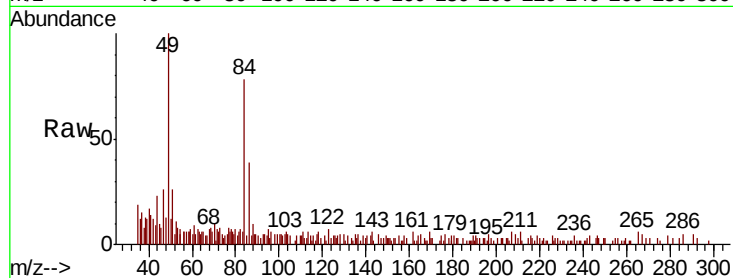




#20
Methvlene Chloride
Concen: 0.812 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014651.D
Acq: 17 Jan 2020 13:48

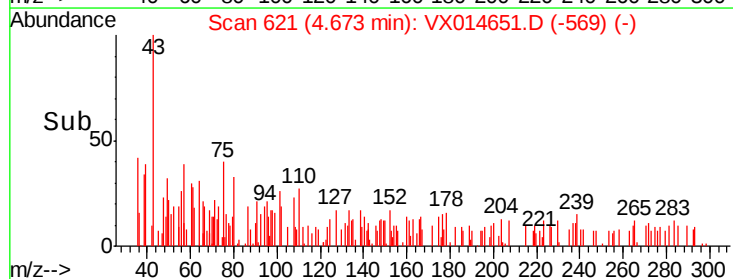
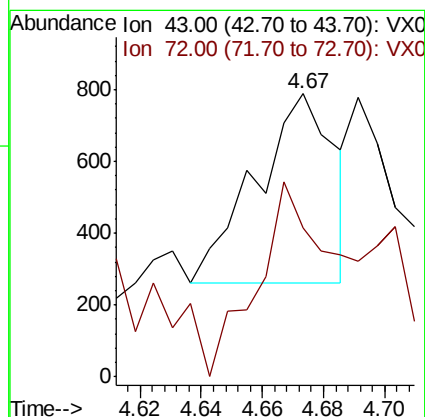
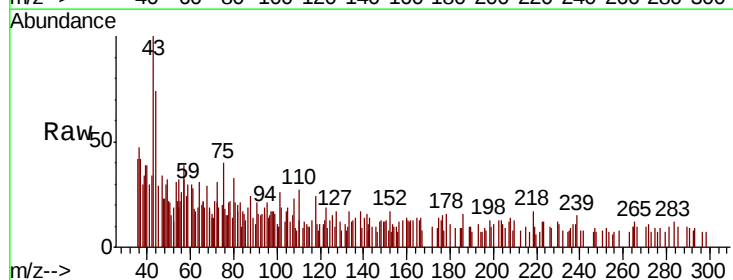
Instrument :
MSVOA_X
ClientSampleId :

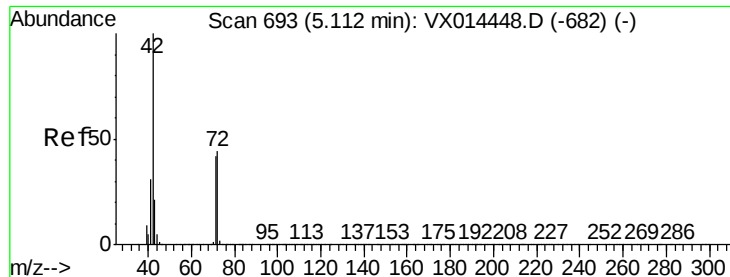
Tot Ion: 84 Resp: 3996
Ion Ratio Lower Upper
84 100
49 132.3 95.8 143.8
51 22.6 30.2 45.4#
86 49.4 51.8 77.6#



#25
2-Butanone
Concen: 0.257 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX014651.D
Acq: 17 Jan 2020 13:48

Tgt Ion: 43 Resp: 939
Ion Ratio Lower Upper
43 100
72 40.1 20.6 31.0#





#29

Tetrahydrofuran

Concen: 0.318 ug/l

RT: 5.11 min Scan# 693

Delta R.T. 0.00 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :

MSVOA_X

ClientSampleId :

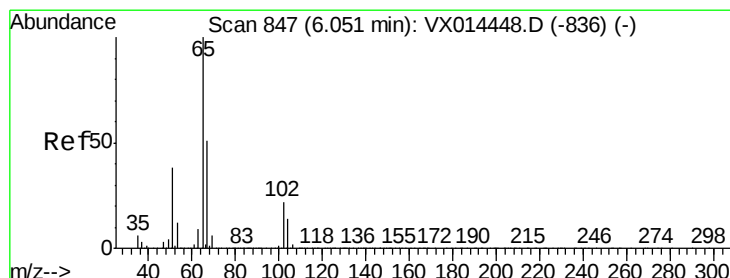
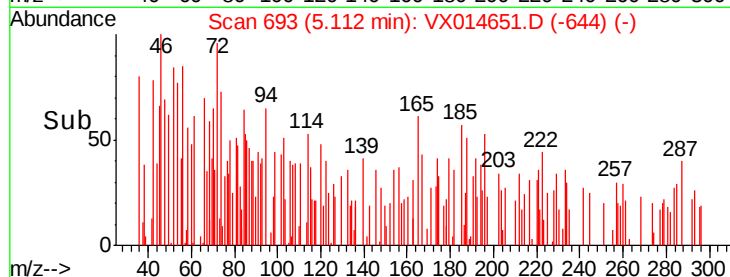
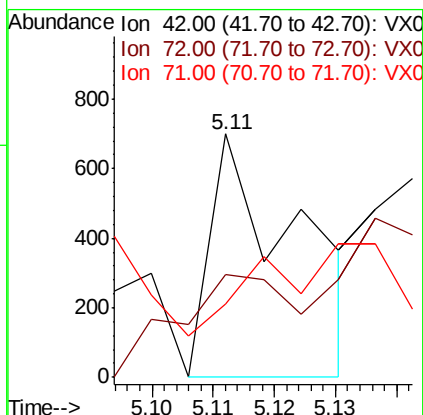
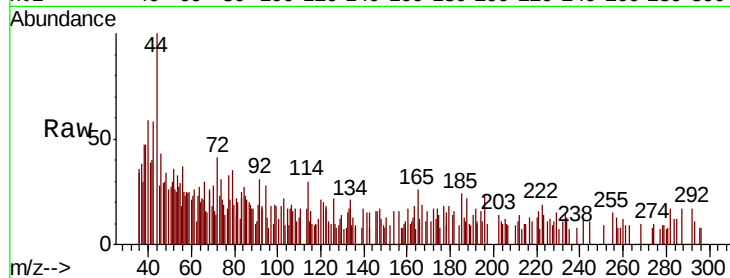
Tot Ion: 42 Resp: 688

Ion Ratio Lower Upper

42 100

72 57.4 36.2 54.4#

71 51.5 34.1 51.1#



#33

1,2-Dichloroethane-d4

Concen: 51.838 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014651.D

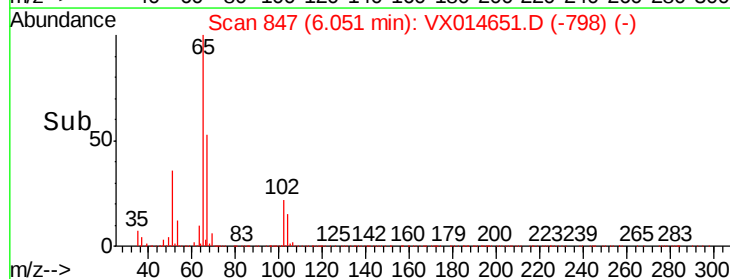
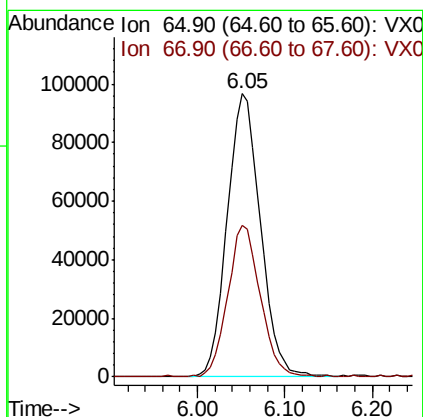
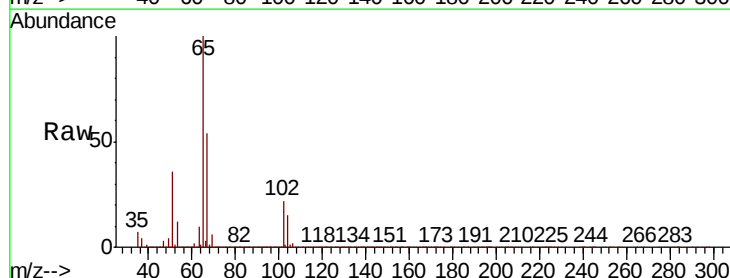
Acq: 17 Jan 2020 13:48

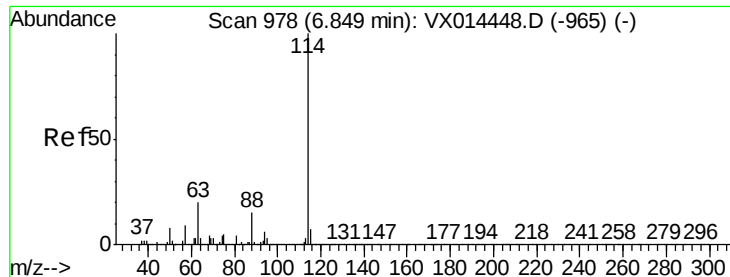
Tgt Ion: 65 Resp: 253734

Ion Ratio Lower Upper

65 100

67 52.0 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :

MSVOA_X

ClientSampleId :

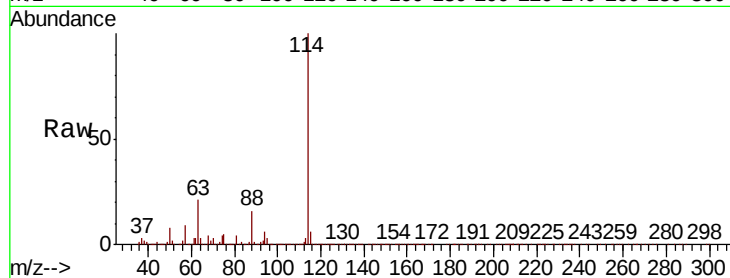
Tot Ion:114 Resp: 684385

Ion Ratio Lower Upper

114 100

63 21.0 0.0 39.6

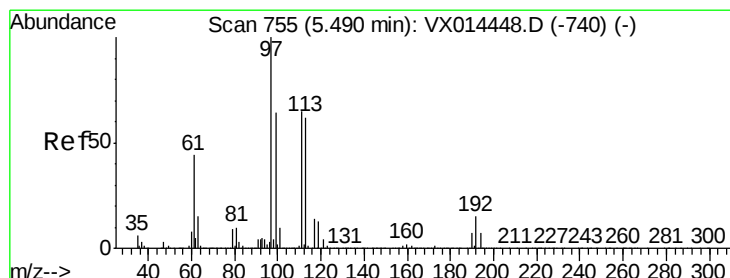
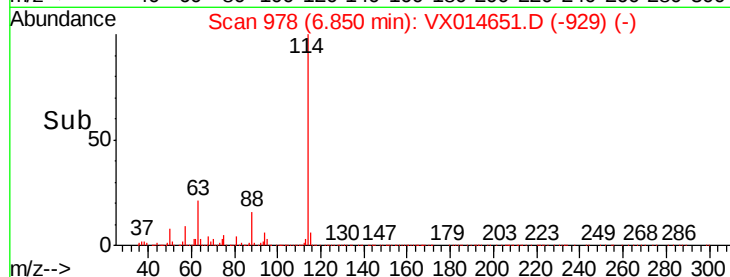
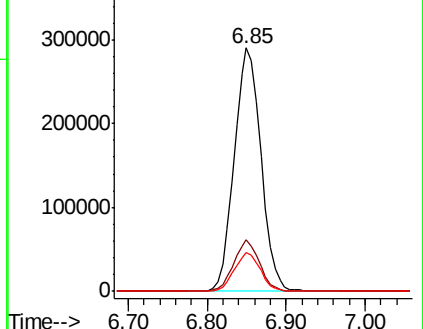
88 15.7 0.0 30.8



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: 49.503 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

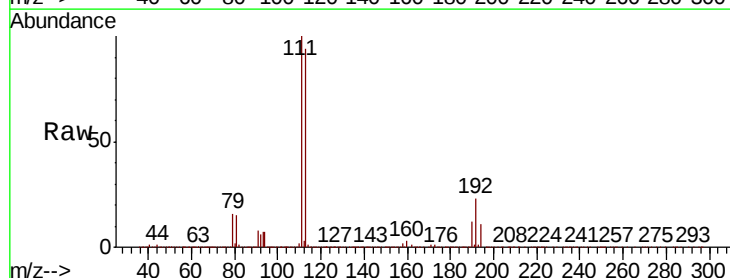
Tgt Ion:113 Resp: 205083

Ion Ratio Lower Upper

113 100

111 103.3 81.5 122.3

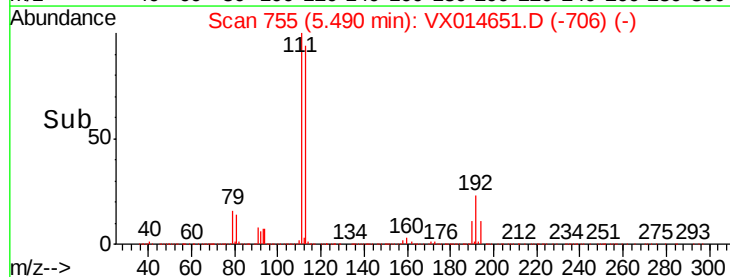
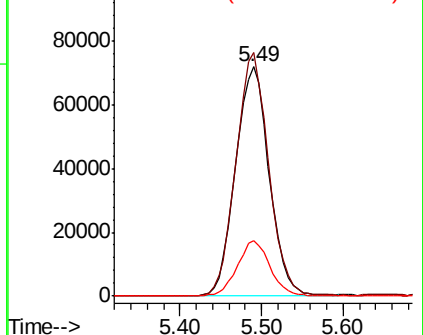
192 23.2 19.2 28.8

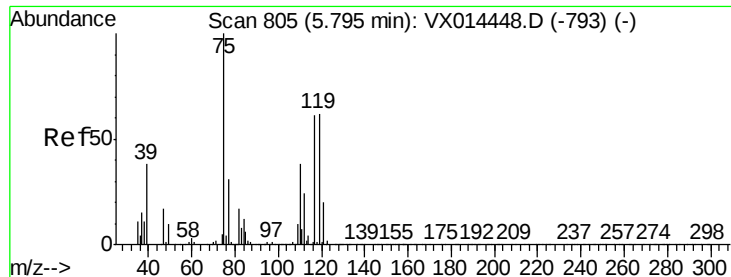


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.649 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :
MSVOA_X
ClientSampleId :

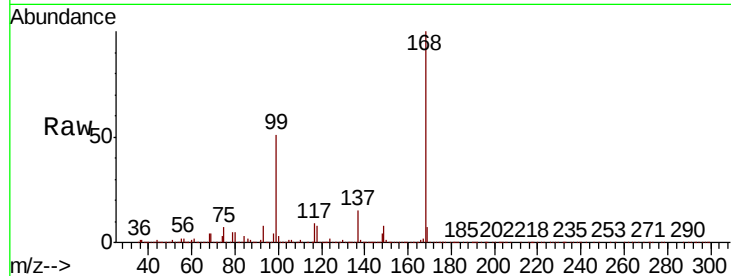
Tot Ion: 75 Resp: 29918

Ion Ratio Lower Upper

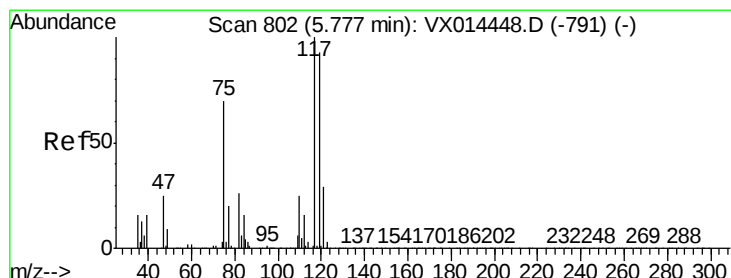
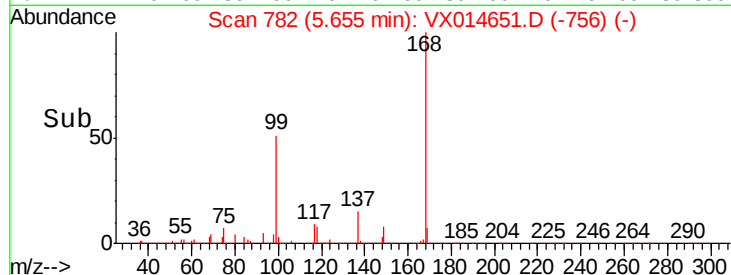
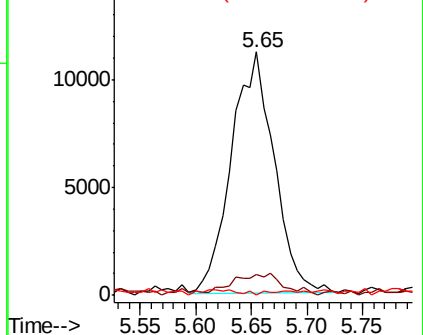
75 100

110 10.6 18.6 55.8#

77 0.0 24.5 36.7#



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



#38

Carbon Tetrachloride

Concen: 6.550 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

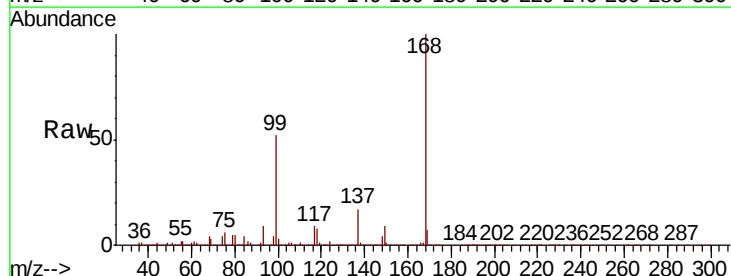
Tgt Ion: 117 Resp: 38792

Ion Ratio Lower Upper

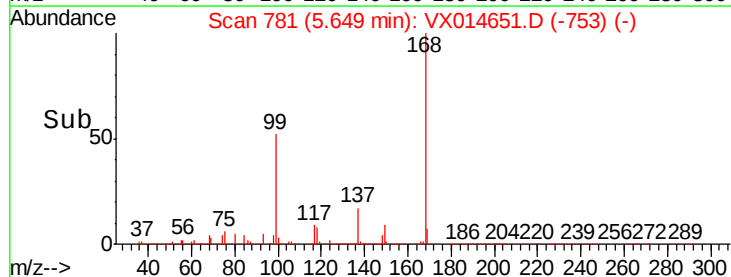
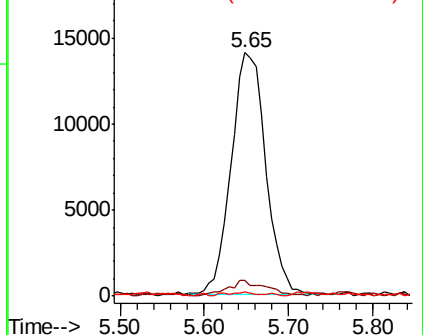
117 100

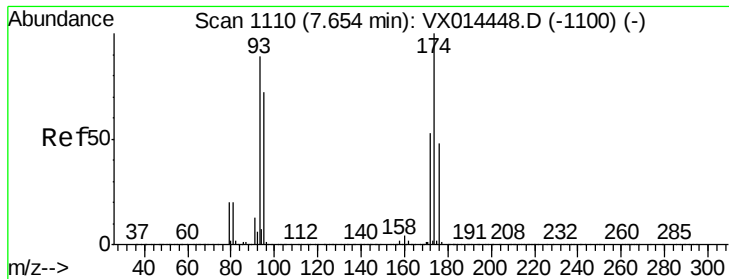
119 5.8 73.8 110.8#

121 1.1 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#46

Dibromomethane

Concen: 0.200 ug/l

RT: 7.64 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :

MSVOA_X

ClientSampled :

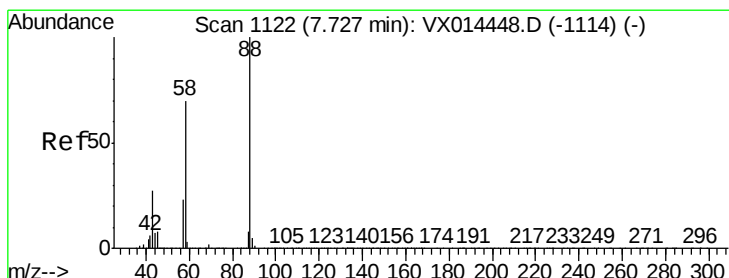
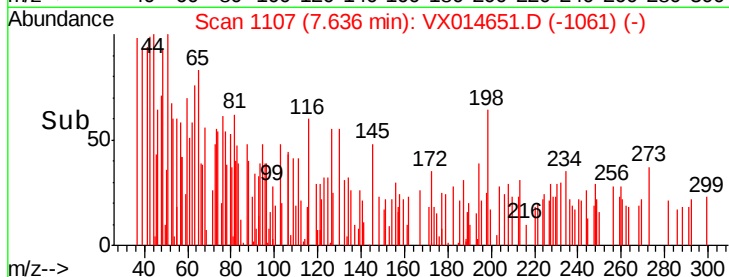
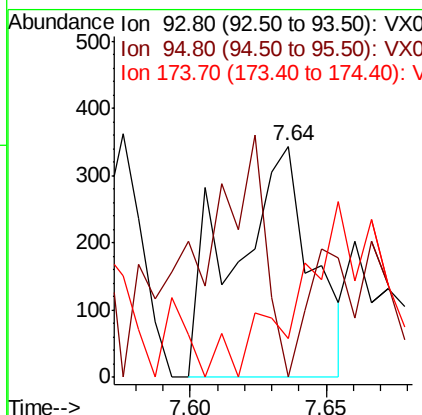
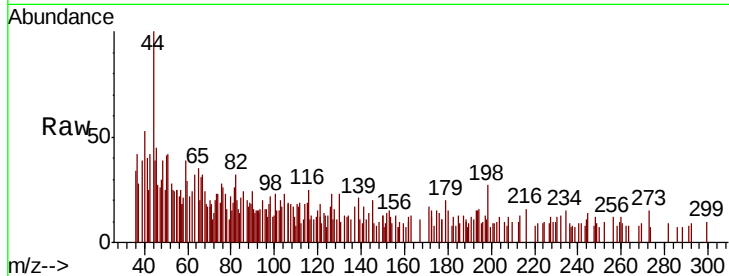
Tot Ion: 93 Resp: 681

Ion Ratio Lower Upper

93 100

95 29.8 65.4 98.2#

174 91.6 93.0 139.4#



#49

1,4-Dioxane

Concen: 0.873 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

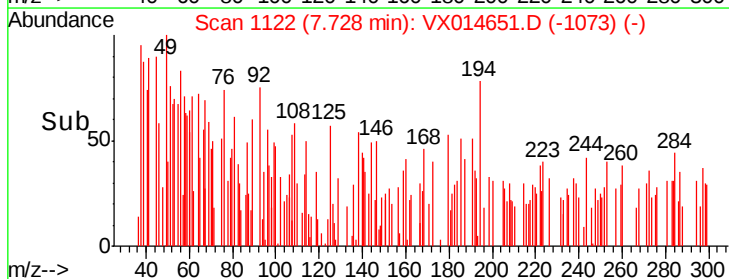
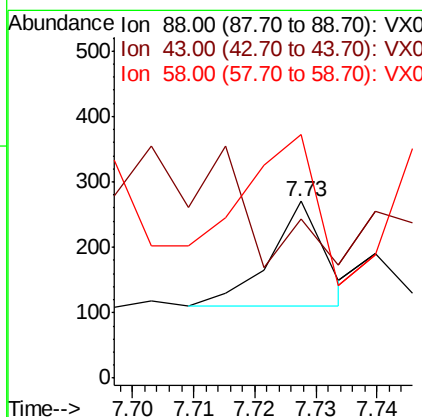
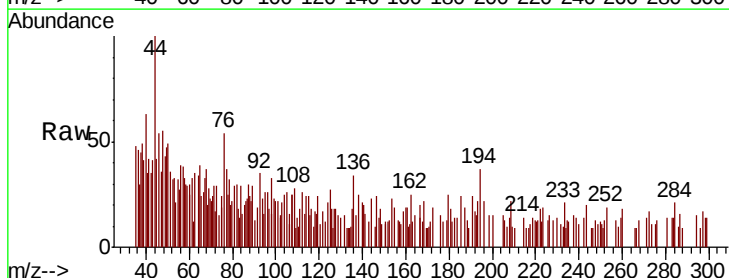
Tgt Ion: 88 Resp: 100

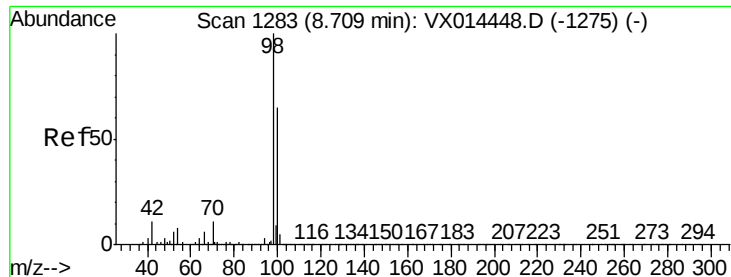
Ion Ratio Lower Upper

88 100

43 862.0 27.4 41.0#

58 222.0 57.1 85.7#

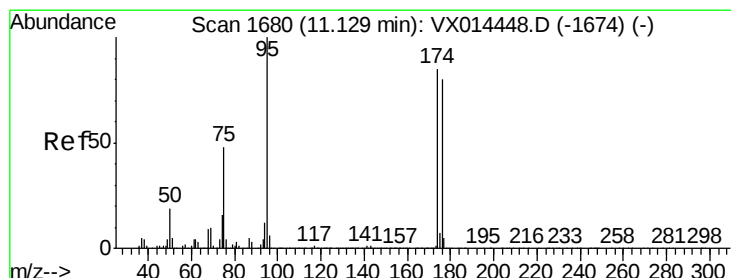
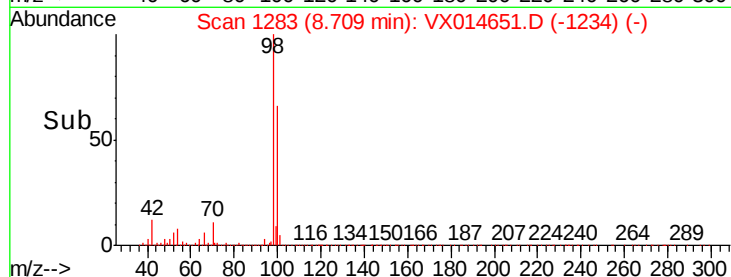
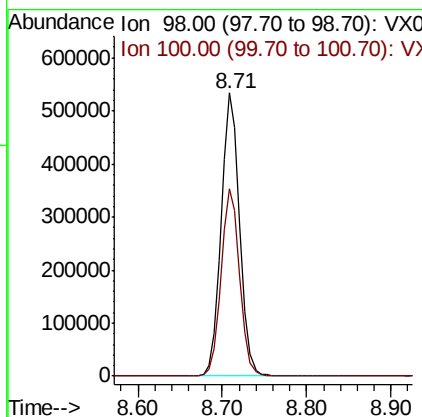
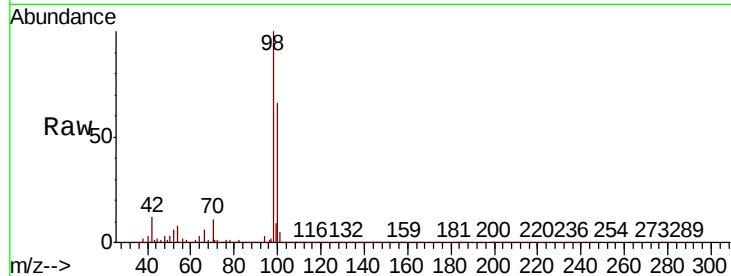




#50
Toluene-d8
Concen: 50.189 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014651.D
Acq: 17 Jan 2020 13:48

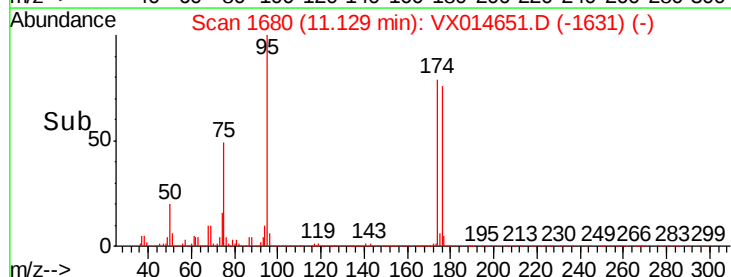
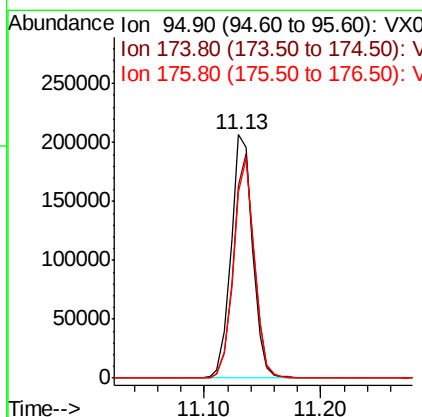
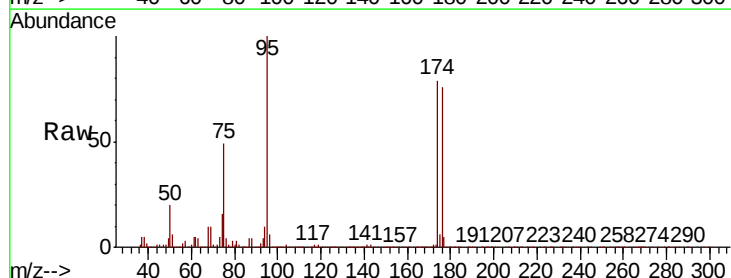
Instrument :
MSVOA_X
ClientSampleId :

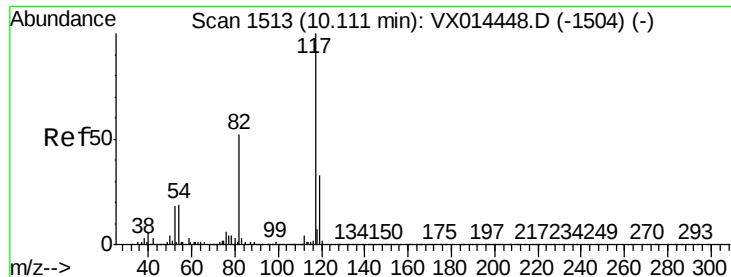
Tot Ion: 98 Resp: 806896
Ion Ratio Lower Upper
98 100
100 66.2 53.2 79.8



#62
4-Bromofluorobenzene
Concen: 45.135 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014651.D
Acq: 17 Jan 2020 13:48

Tgt Ion: 95 Resp: 266392
Ion Ratio Lower Upper
95 100
174 88.8 0.0 180.8
176 87.0 0.0 172.8

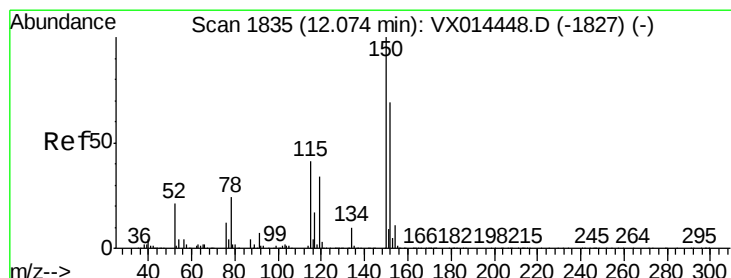
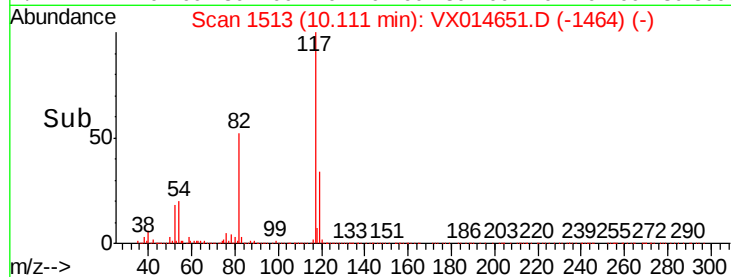
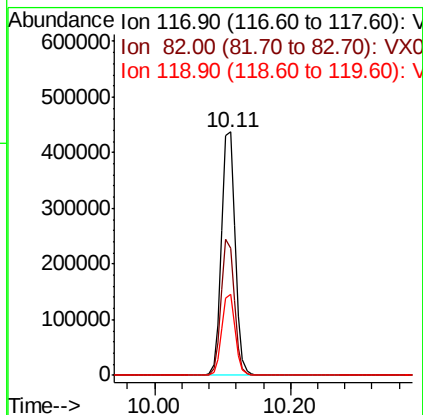
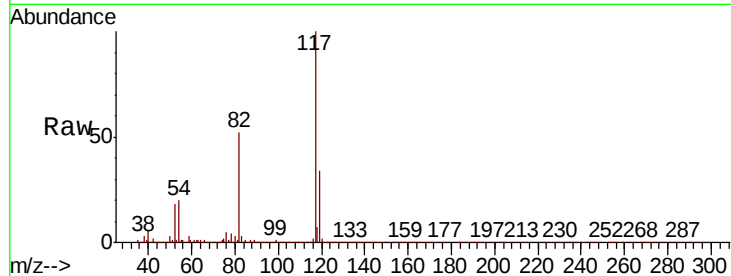




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014651.D
Acq: 17 Jan 2020 13:48

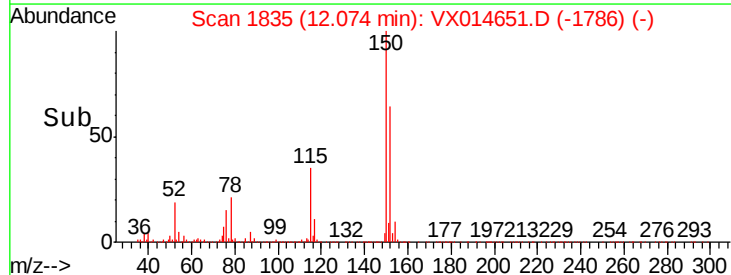
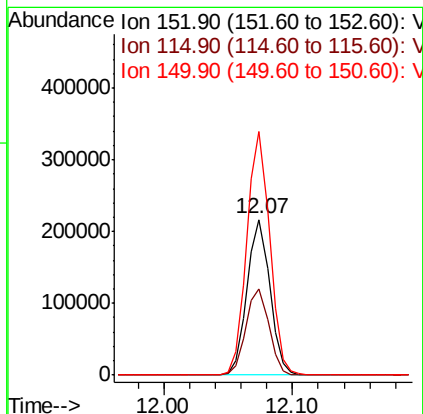
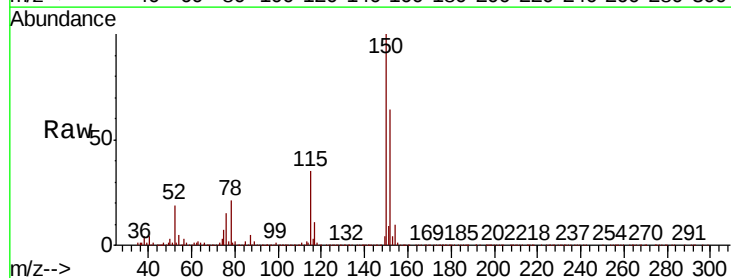
Instrument :
MSVOA_X
ClientSampled :

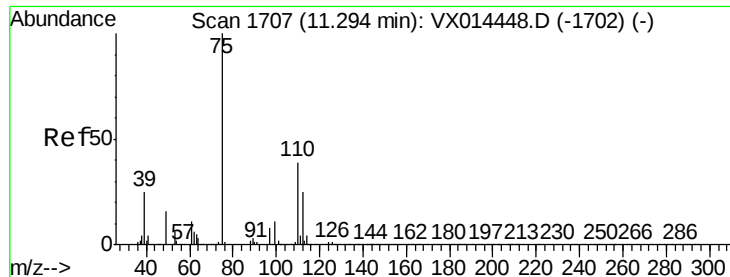
Tot Ion:117 Resp: 610768
Ion Ratio Lower Upper
117 100
82 52.1 41.8 62.6
119 33.5 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014651.D
Acq: 17 Jan 2020 13:48

Tgt Ion:152 Resp: 262848
Ion Ratio Lower Upper
152 100
115 56.0 39.5 118.3
150 157.3 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 24.018 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

Instrument :

MSVOA_X

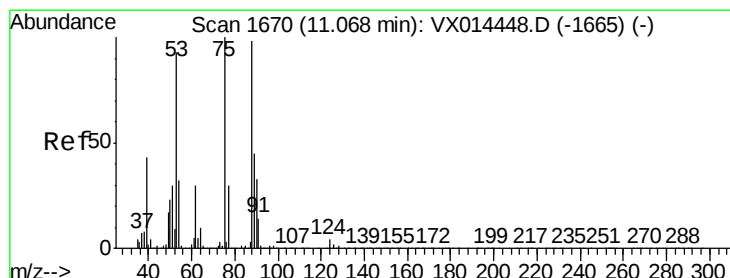
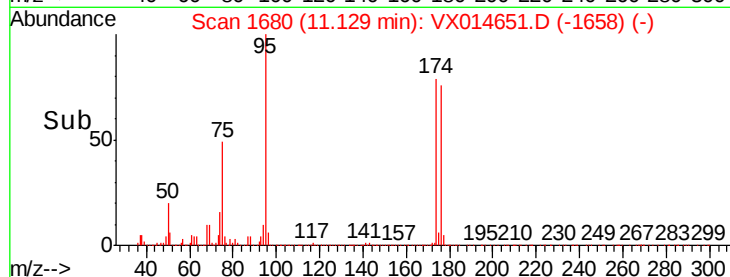
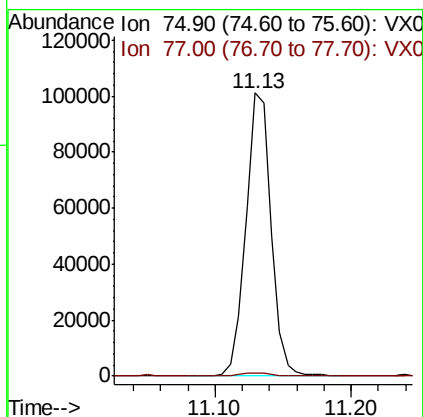
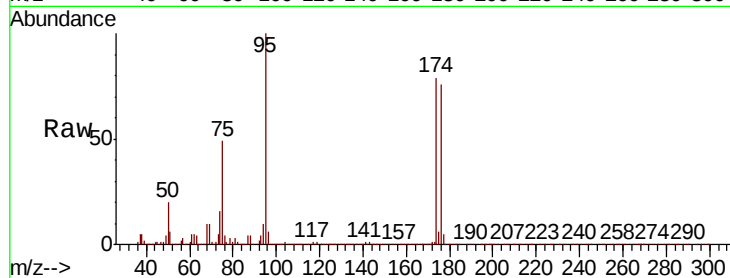
ClientSampleId :

Tot Ion: 75 Resp: 130619

Ion Ratio Lower Upper

75 100

77 1.4 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.499 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014651.D

Acq: 17 Jan 2020 13:48

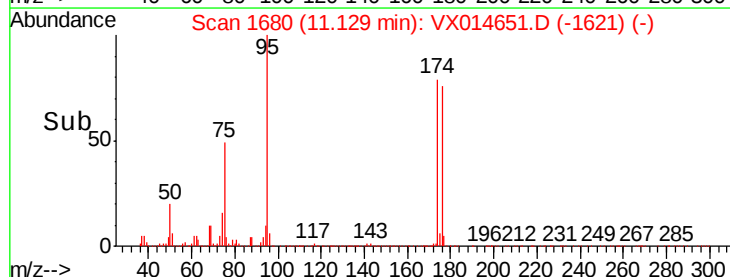
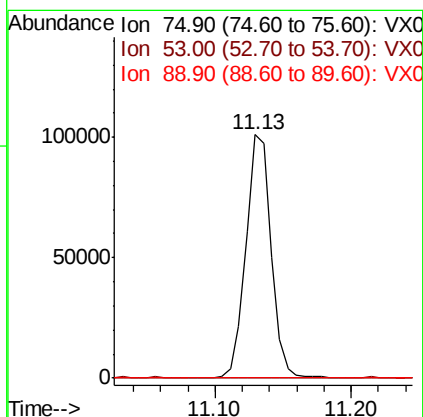
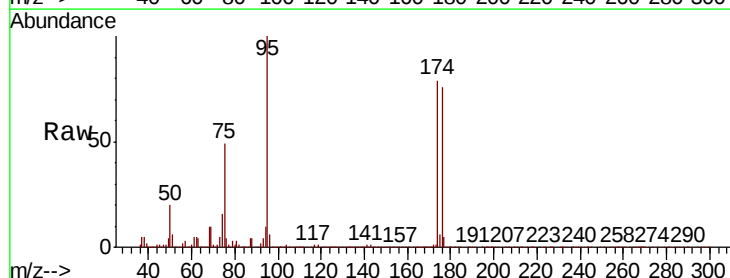
Tgt Ion: 75 Resp: 130619

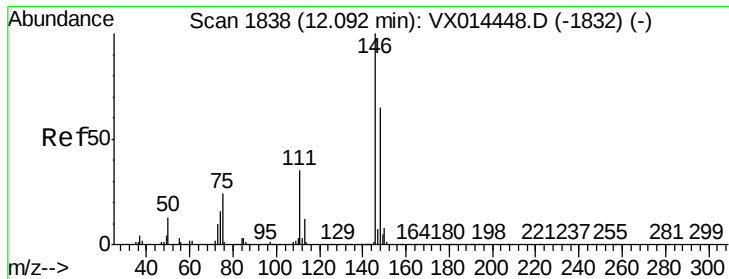
Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

89 0.0 36.3 54.5#

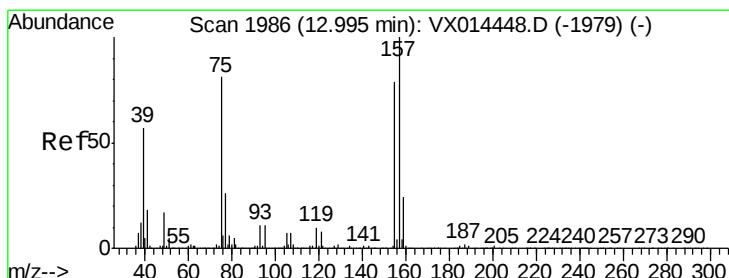
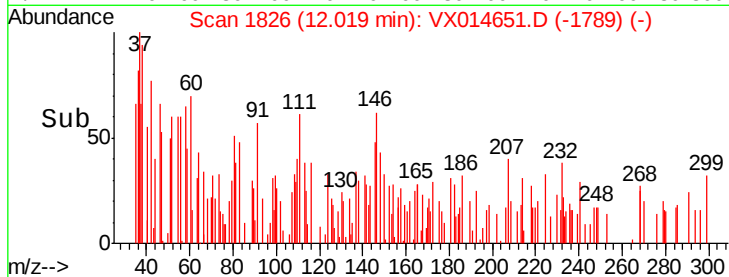
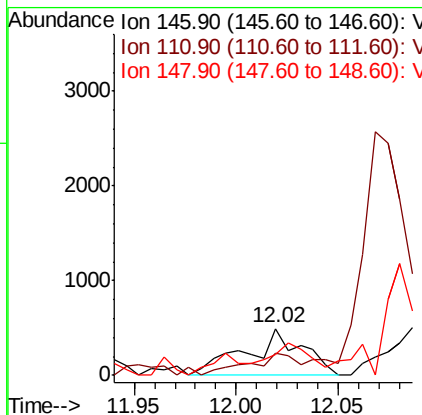
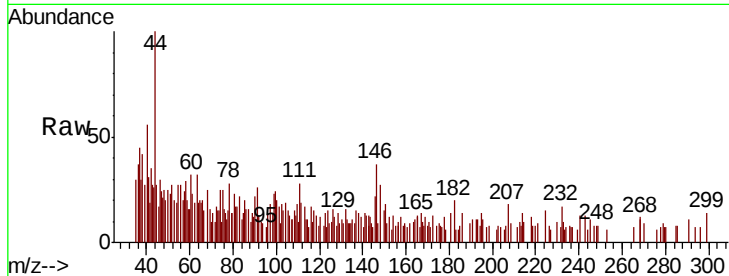




#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.07 min
 Lab File: VX014651.D
 Acq: 17 Jan 2020 13:48

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	18.1	54.1
148	43.8	32.1	96.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.359 ug/l
 RT: 13.11 min Scan# 2005
 Delta R.T. 0.12 min
 Lab File: VX014651.D
 Acq: 17 Jan 2020 13:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	64.0	48.7	146.1
157	69.2	62.0	185.9

