

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010820\
 Data File : VX014478.D
 Acq On : 08 Jan 2020 17:54
 Operator : JC/SP
 Sample : PB125924ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:11:34 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	550227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	851532	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	773670	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	362276	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	301025	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
35) Dibromofluoromethane	5.49	113	251936	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
50) Toluene-d8	8.71	98	1018811	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.13	95	353056	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	

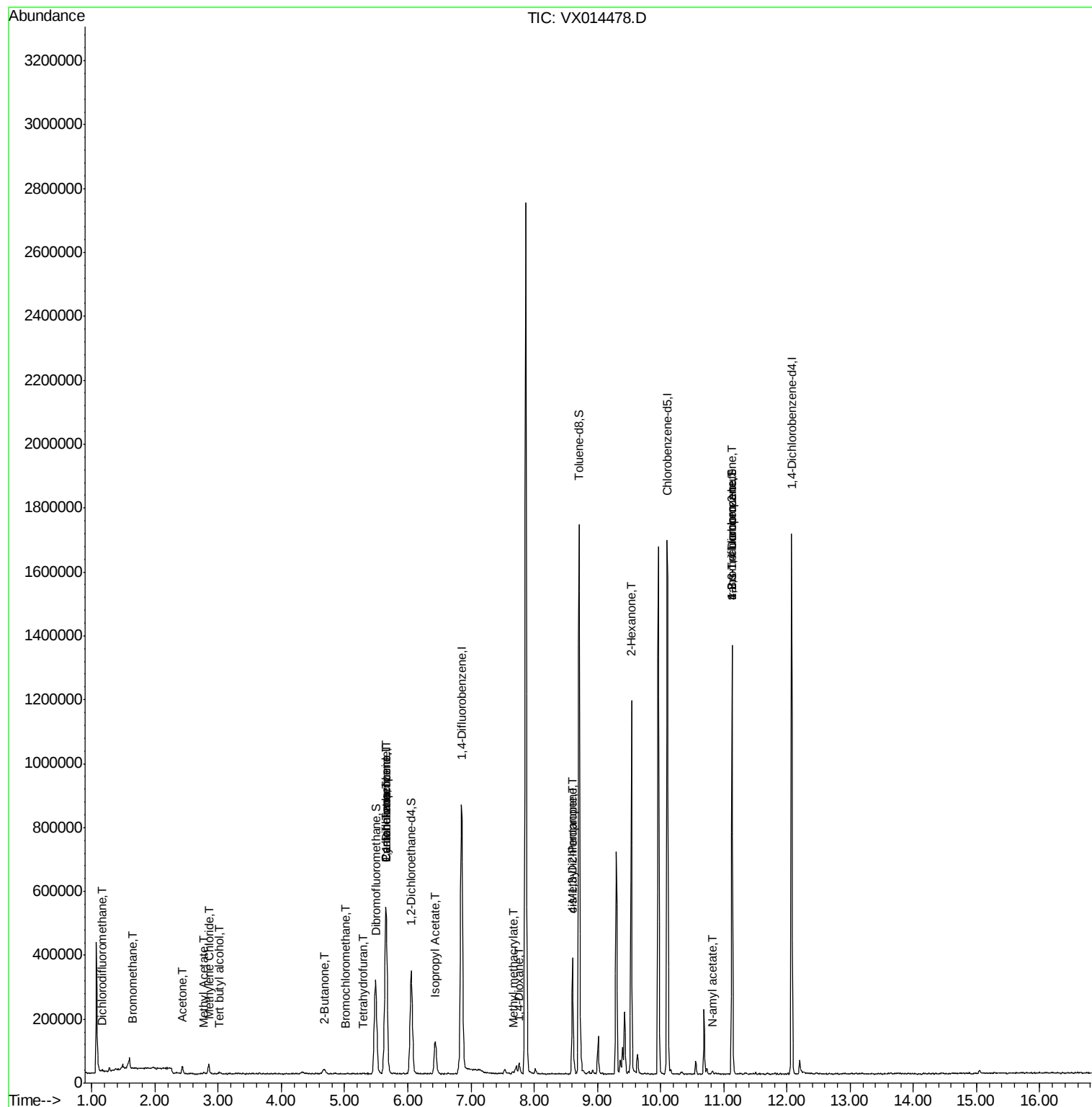
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.16	85	417	0.313	ug/l	71
5) Bromomethane	1.64	94	1215	0.235	ug/l #	59
6) Chloroethane	1.75	64	730	Below Cal	#	43
11) Tert butyl alcohol	3.02	59	5327	4.154	ug/l #	81
16) Acetone	2.43	43	27010	4.669	ug/l	90
18) Methyl Acetate	2.76	43	5809	0.658	ug/l	95
20) Methylene Chloride	2.85	84	14496	2.346	ug/l	95
25) 2-Butanone	4.68	43	11820	2.576	ug/l #	72
28) Bromochloromethane	5.01	49	1179	0.279	ug/l #	10
29) Tetrahydrofuran	5.30	42	848	0.313	ug/l	94
31) Cyclohexane	5.65	56	9505	1.012	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	36356	4.540	ug/l #	52
38) Carbon Tetrachloride	5.65	117	46605	6.324	ug/l #	18
43) Isopropyl Acetate	6.43	43	139410	9.922	ug/l	99
48) Methyl methacrylate	7.67	41	8029	1.193	ug/l #	15
49) 1,4-Dioxane	7.75	88	784	5.498	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	128680	15.028	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	59809	6.180	ug/l #	57
59) 2-Hexanone	9.54	43	135093	19.940	ug/l #	50
74) N-amyl acetate	10.82	43	6467	0.576	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	170472	22.743	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	170472	60.128	ug/l #	12
88) 1,4-Dichlorobenzene	12.03	146	525	Below Cal		96
93) 1,2,4-Trichlorobenzene	13.76	180	384	Below Cal		65
96) 1,2,3-Trichlorobenzene	13.94	180	187	Below Cal		81

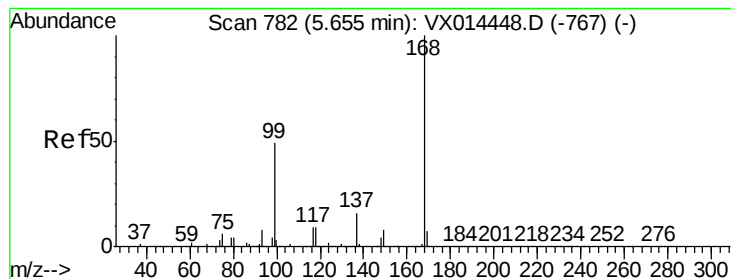
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010820\
Data File : VX014478.D
Acq On : 08 Jan 2020 17:54
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jan 09 06:11:34 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

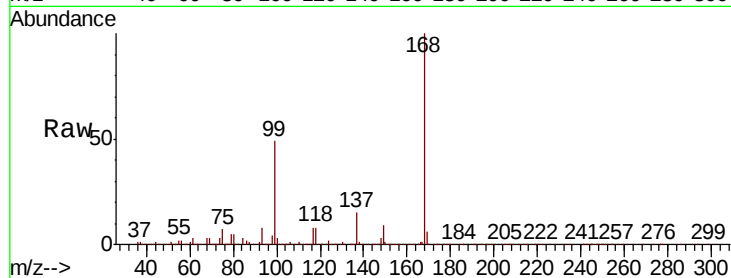
ClientSampleId :

Tot Ion:168 Resp: 550227

Ion Ratio Lower Upper

168 100

99 49.2 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

200000

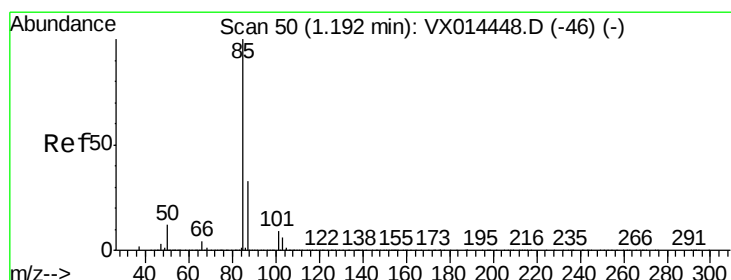
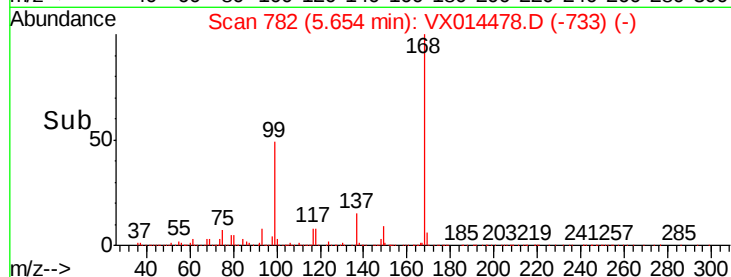
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.313 ug/l

RT: 1.16 min Scan# 44

Delta R.T. -0.04 min

Lab File: VX014478.D

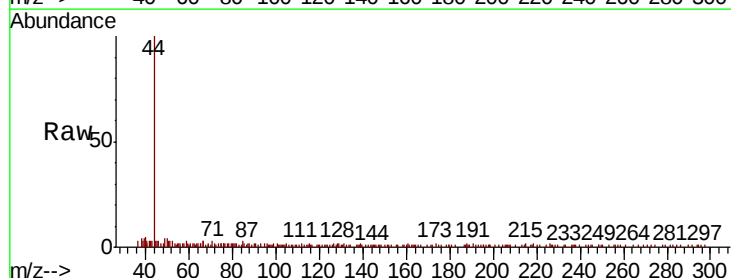
Acq: 08 Jan 2020 17:54

Tgt Ion: 85 Resp: 417

Ion Ratio Lower Upper

85 100

87 16.8 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.16

400

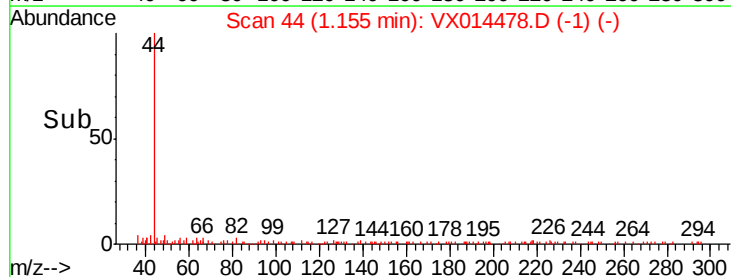
300

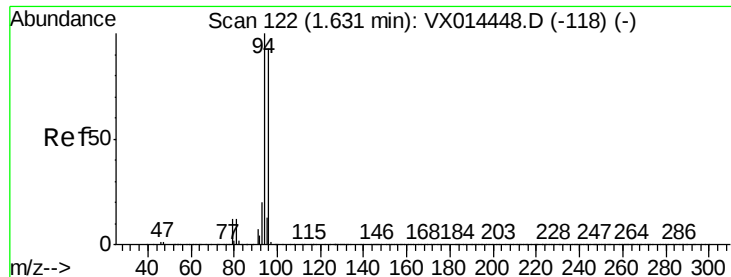
200

100

0

Time-->





#5

Bromomethane

Concen: 0.235 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

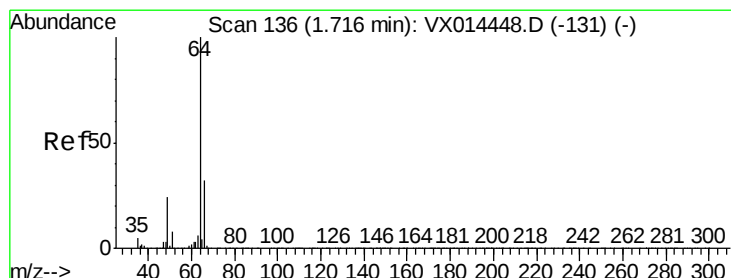
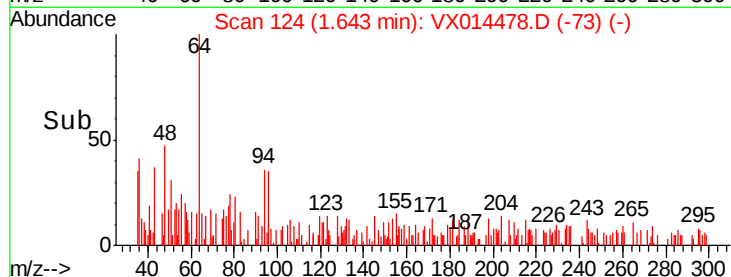
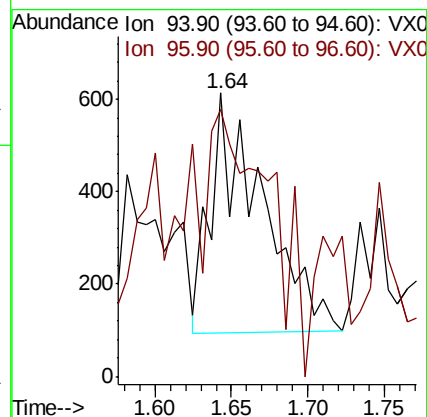
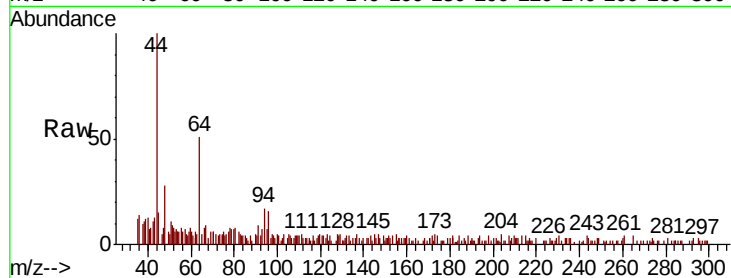
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 1215

Ion Ratio Lower Upper

94 100

96 53.0 74.2 111.2#



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 141

Delta R.T. 0.03 min

Lab File: VX014478.D

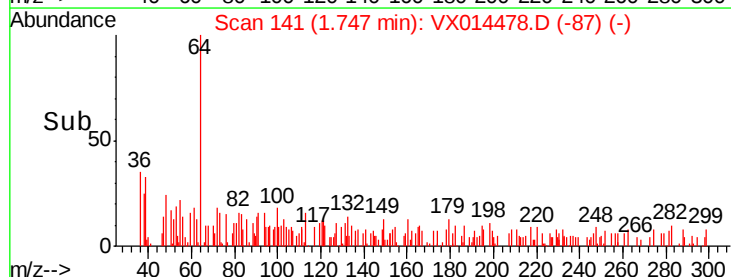
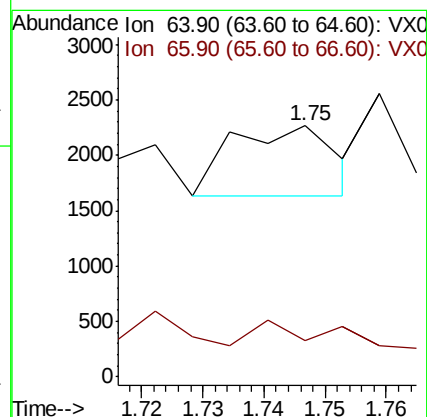
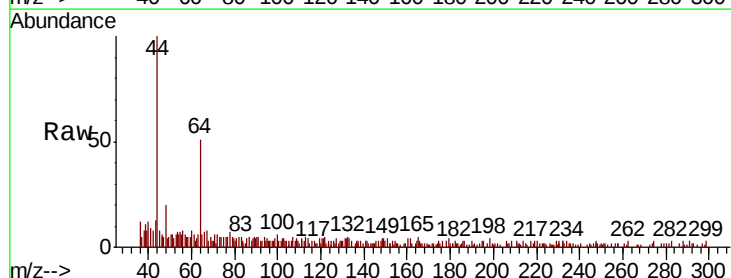
Acq: 08 Jan 2020 17:54

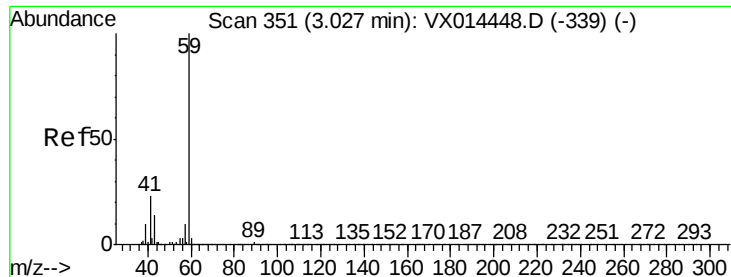
Tgt Ion: 64 Resp: 730

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



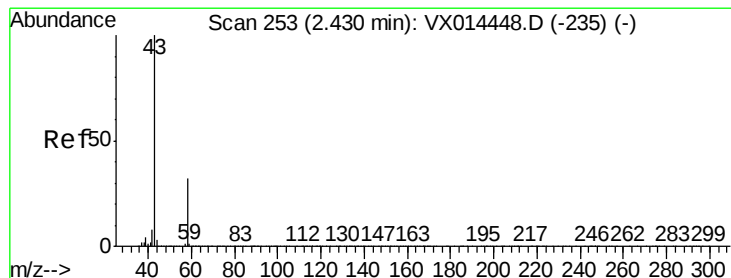
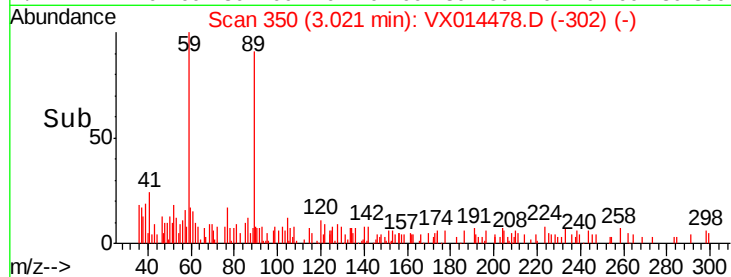
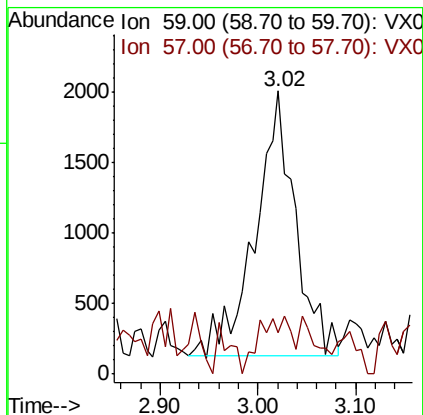
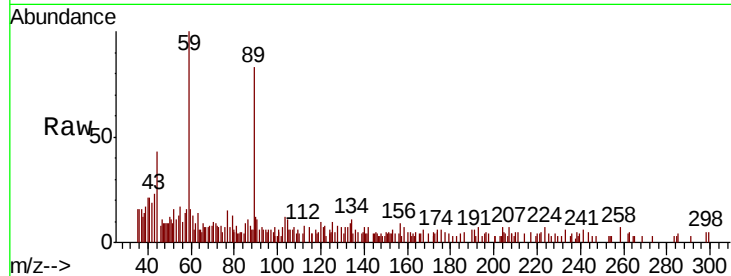


#11

Tert butyl alcohol
 Concen: 4.154 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VX014478.D
 Acq: 08 Jan 2020 17:54

Instrument :
 MSVOA_X
 ClientSampleId :

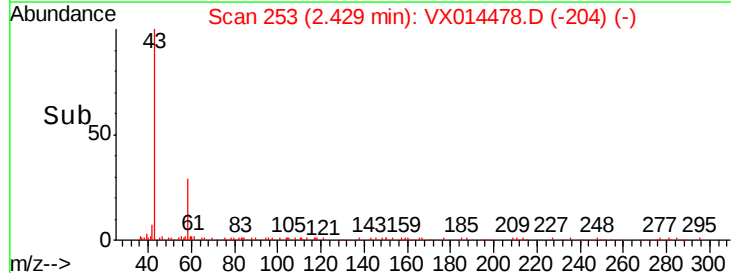
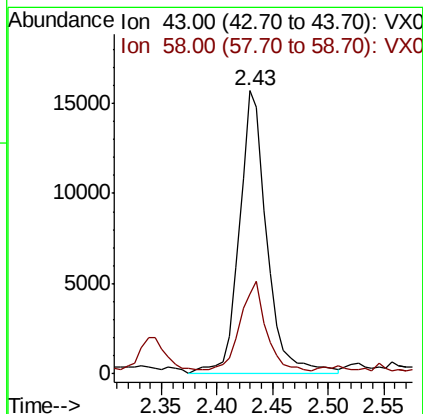
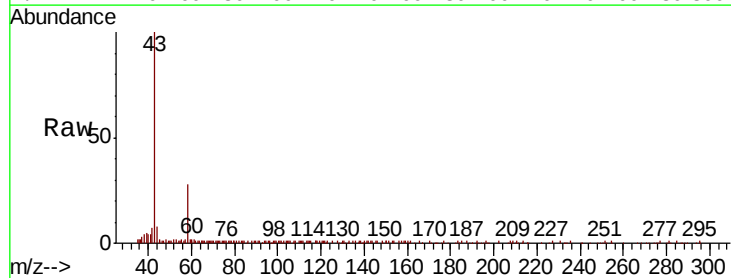
Tot Ion: 59 Resp: 5327
 Ion Ratio Lower Upper
 59 100
 57 17.6 8.5 12.7#

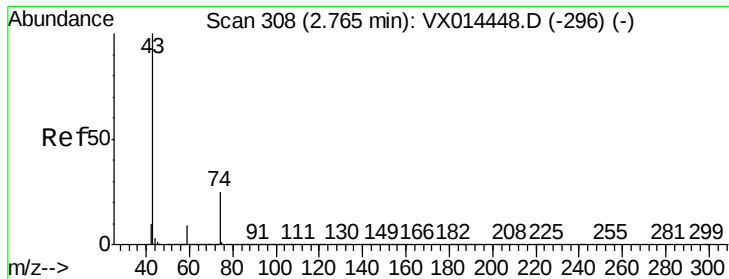


#16

Acetone
 Concen: 4.669 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. 0.00 min
 Lab File: VX014478.D
 Acq: 08 Jan 2020 17:54

Tgt Ion: 43 Resp: 27010
 Ion Ratio Lower Upper
 43 100
 58 26.2 25.4 38.0





#18

Methyl Acetate

Concen: 0.658 ug/l

RT: 2.76 min Scan# 308

Delta R.T. -0.00 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

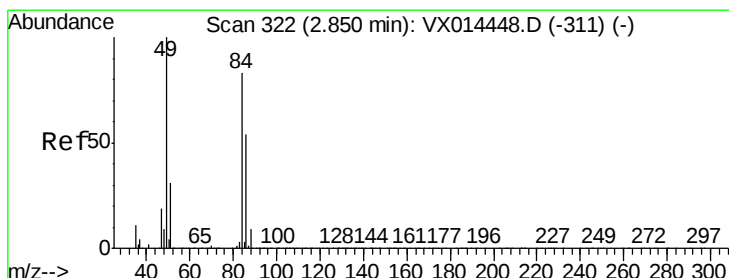
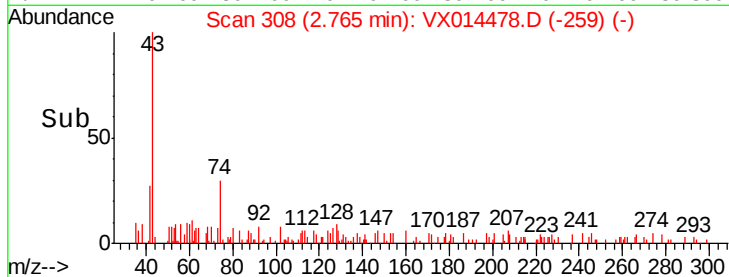
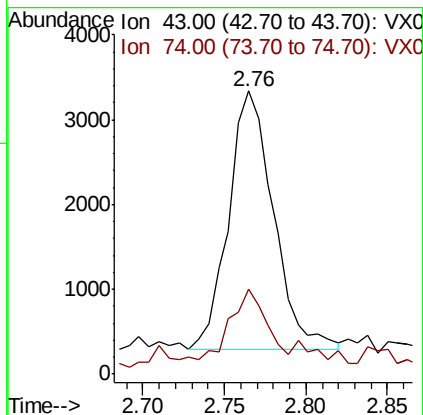
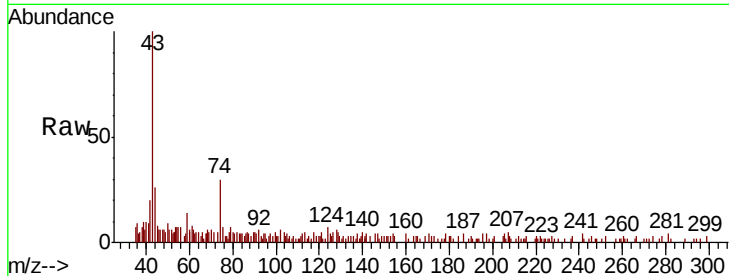
ClientSampleId :

Tot Ion: 43 Resp: 5809

Ion Ratio Lower Upper

43 100

74 21.8 19.4 29.2



#20

Methylene Chloride

Concen: 2.346 ug/l

RT: 2.85 min Scan# 322

Delta R.T. -0.00 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Tgt Ion: 84 Resp: 14496

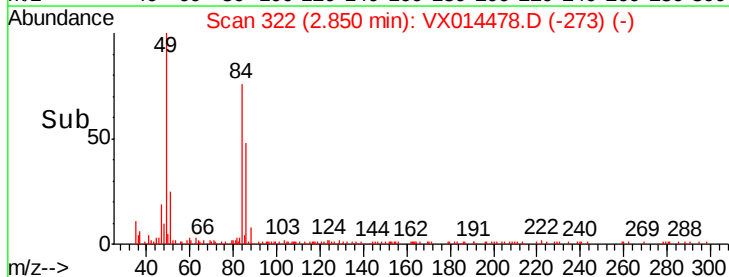
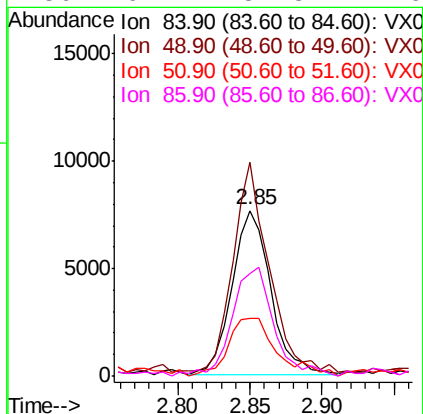
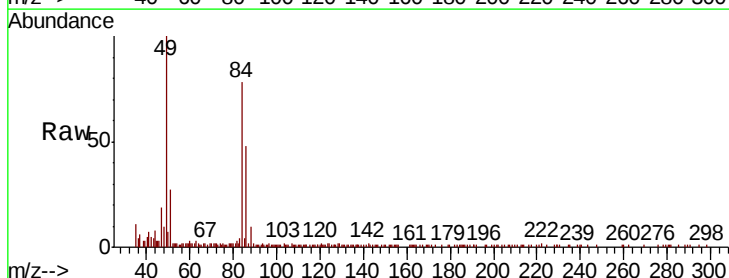
Ion Ratio Lower Upper

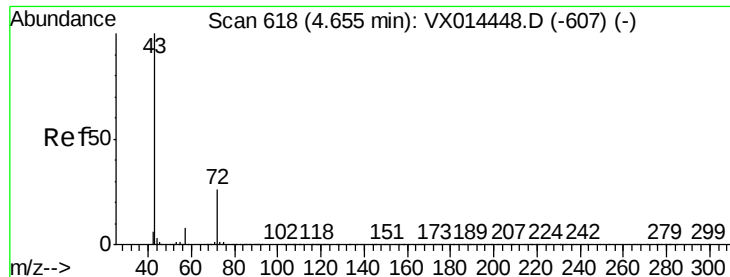
84 100

49 127.2 95.8 143.8

51 34.8 30.2 45.4

86 62.1 51.8 77.6





#25

2-Butanone

Concen: 2.576 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

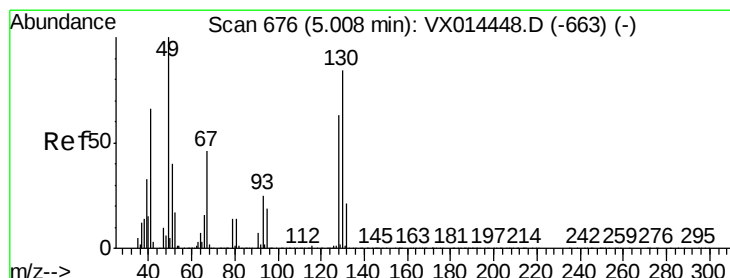
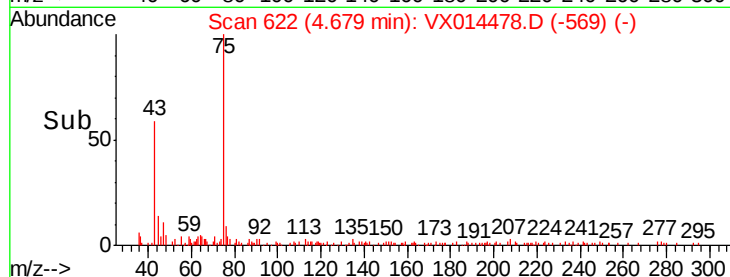
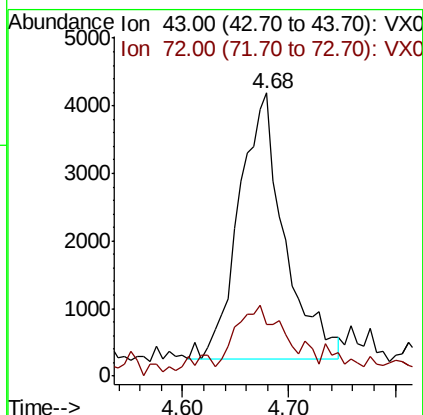
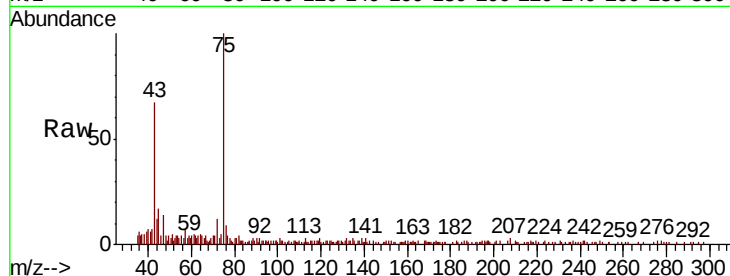
ClientSampled :

Tot Ion: 43 Resp: 11820

Ion Ratio Lower Upper

43 100

72 11.7 20.6 31.0#



#28

Bromochloromethane

Concen: 0.279 ug/l

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

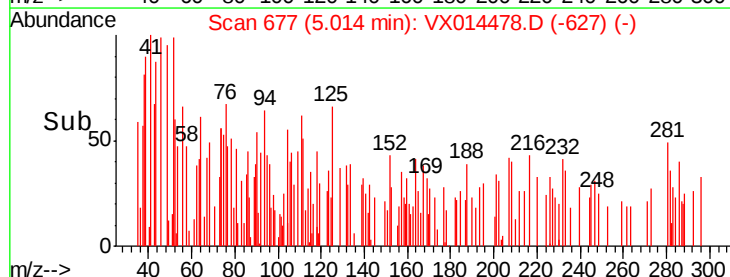
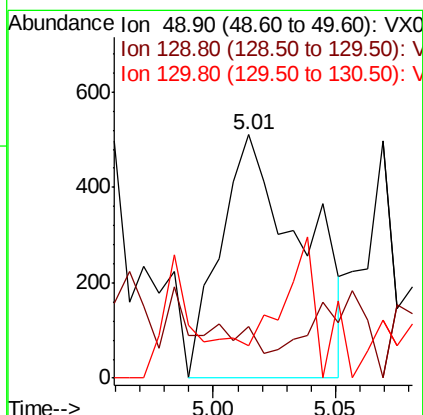
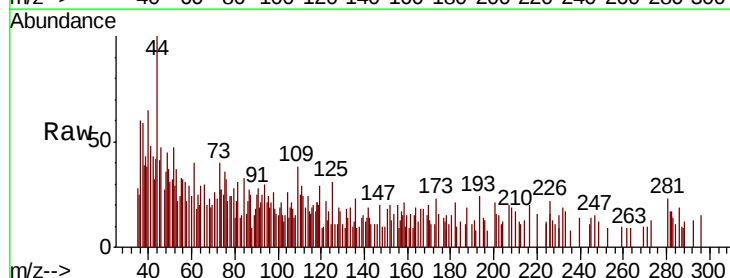
Tgt Ion: 49 Resp: 1179

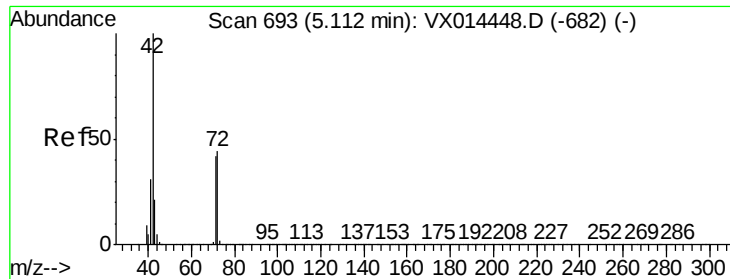
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 0.0 67.0 100.4#





#29

Tetrahydrofuran

Concen: 0.313 ug/l

RT: 5.30 min Scan# 724

Delta R.T. 0.19 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

ClientSampled :

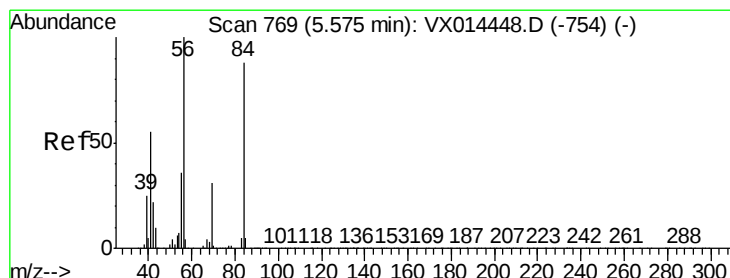
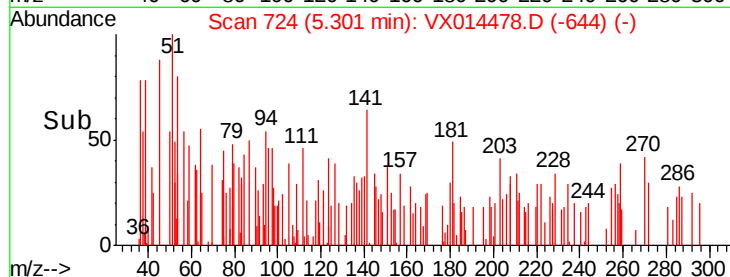
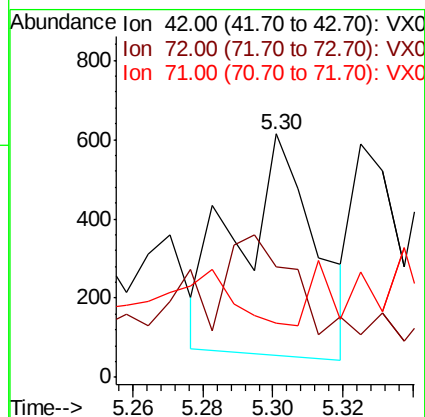
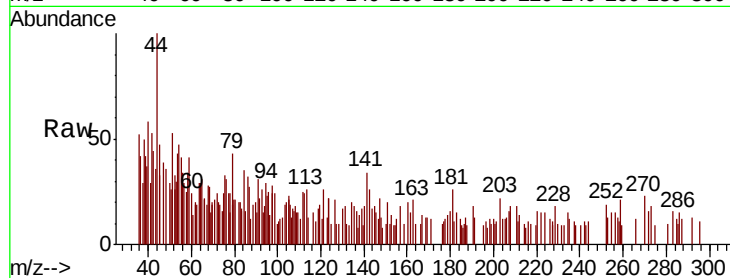
Tot Ion: 42 Resp: 848

Ion Ratio Lower Upper

42 100

72 48.2 36.2 54.4

71 38.3 34.1 51.1



#31

Cyclohexane

Concen: 1.012 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.07 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

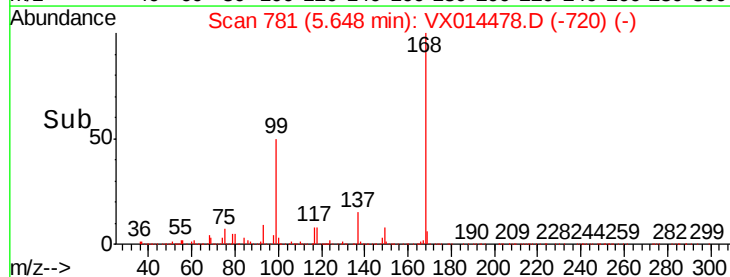
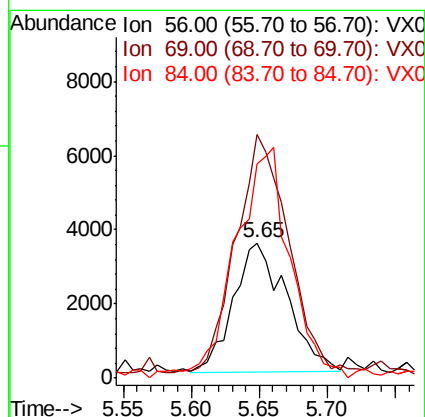
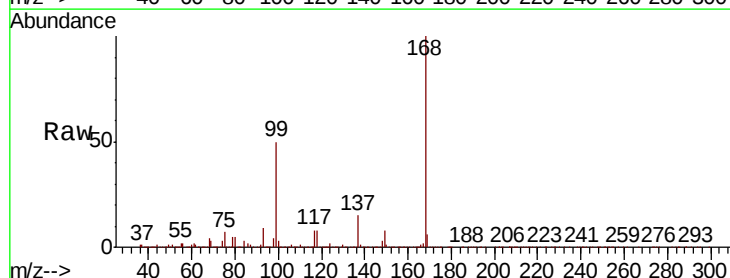
Tgt Ion: 56 Resp: 9505

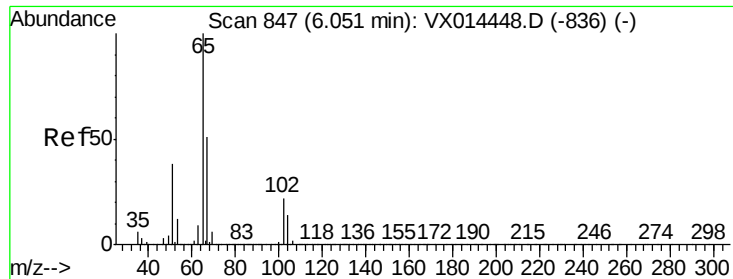
Ion Ratio Lower Upper

56 100

69 181.0 24.4 36.6#

84 160.0 70.6 106.0#

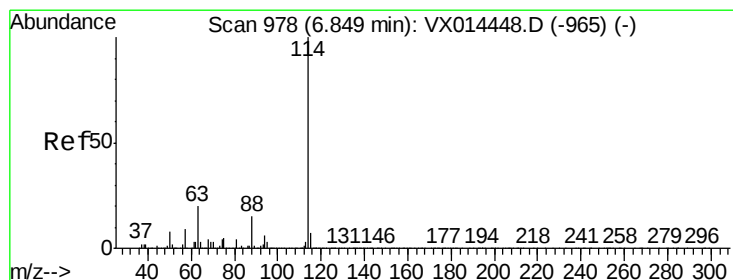
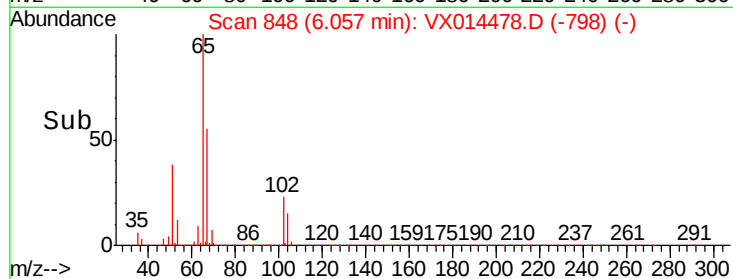
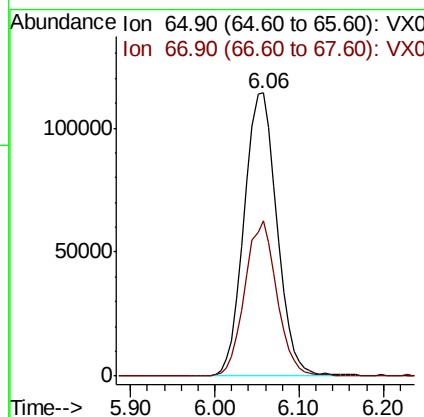
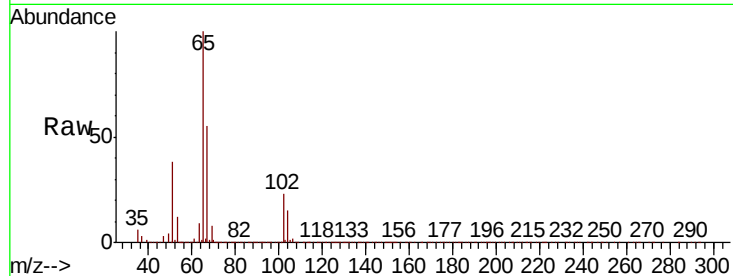




#33
 1,2-Dichloroethane-d4
 Concen: 49.008 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX014478.D
 Acq: 08 Jan 2020 17:54

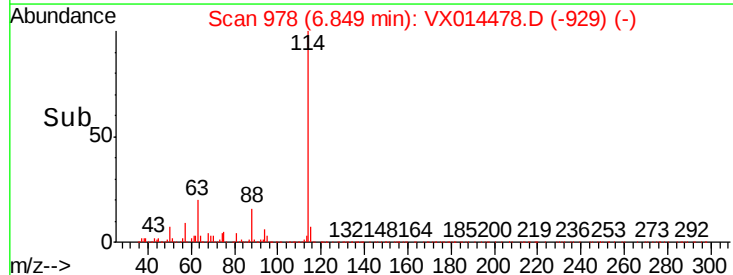
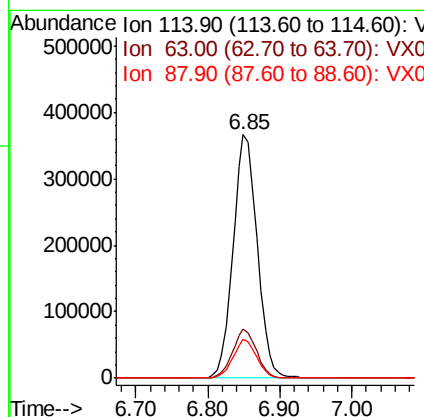
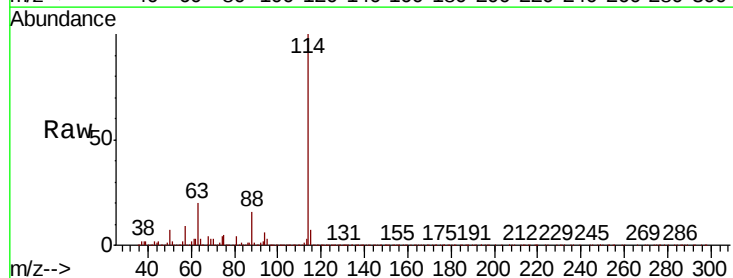
Instrument :
 MSVOA_X
 ClientSampled :

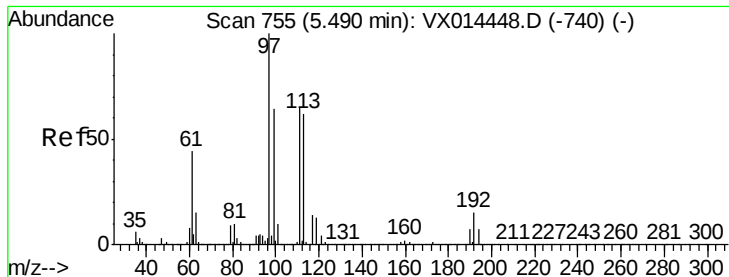
Tot Ion: 65 Resp: 301025
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014478.D
 Acq: 08 Jan 2020 17:54

Tgt Ion: 114 Resp: 851532
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.6
 88 15.9 0.0 30.8





#35

Dibromofluoromethane

Concen: 48.875 ug/l

RT: 5.49 min Scan# 755

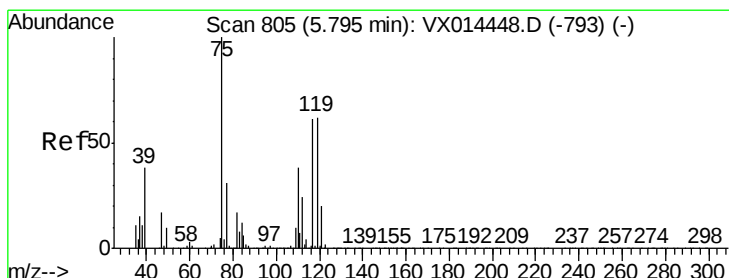
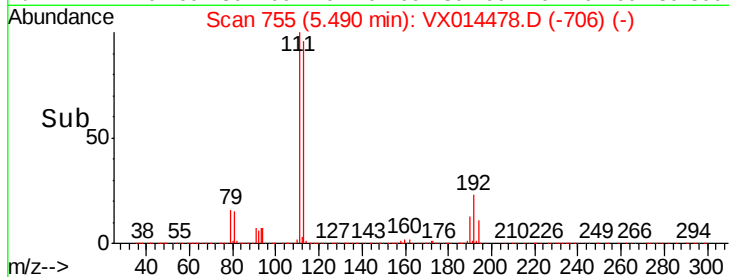
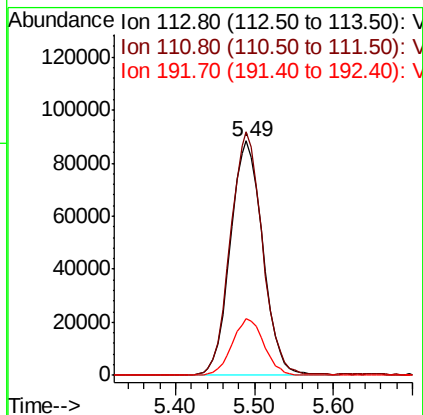
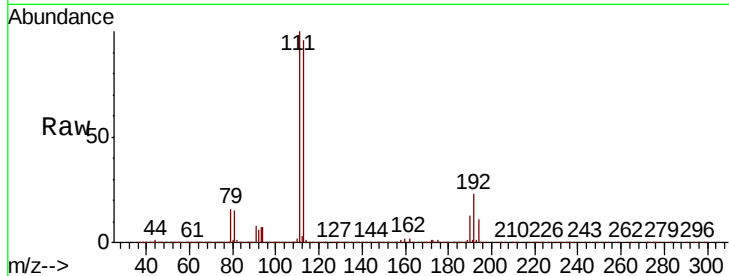
Delta R.T. -0.00 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	113	Resp:	251936
Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.5	122.3
192	24.0	19.2	28.8



#36

1,1-Dichloropropene

Concen: 4.540 ug/l

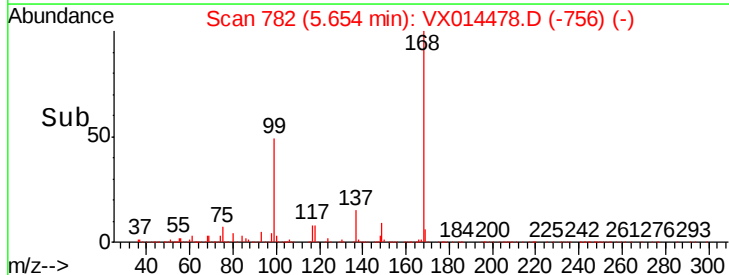
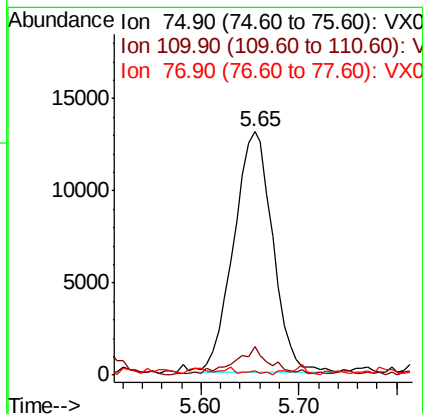
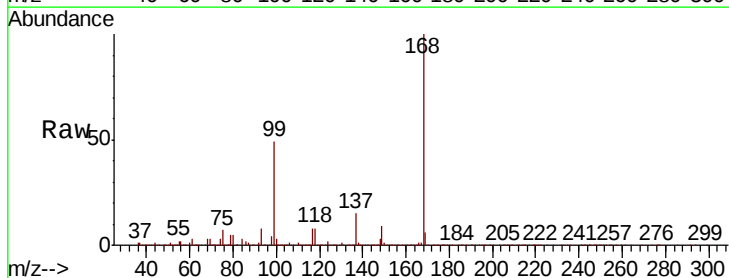
RT: 5.65 min Scan# 782

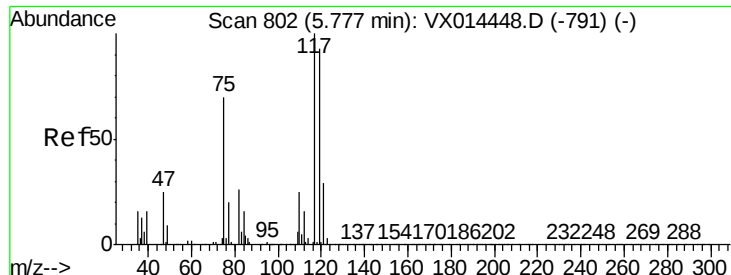
Delta R.T. -0.14 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Tgt Ion:	75	Resp:	36356
Ion	Ratio	Lower	Upper
75	100		
110	11.4	18.6	55.8#
77	0.7	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.324 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

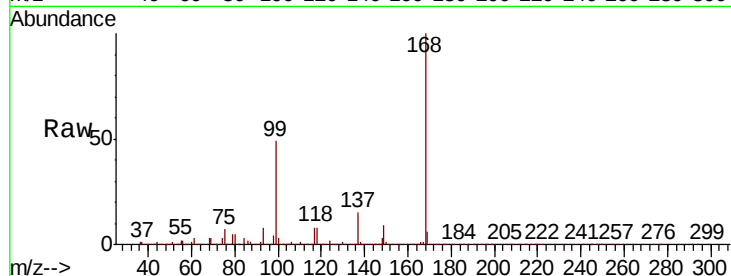
Tot Ion:117 Resp: 46605

Ion Ratio Lower Upper

117 100

119 5.3 73.8 110.8#

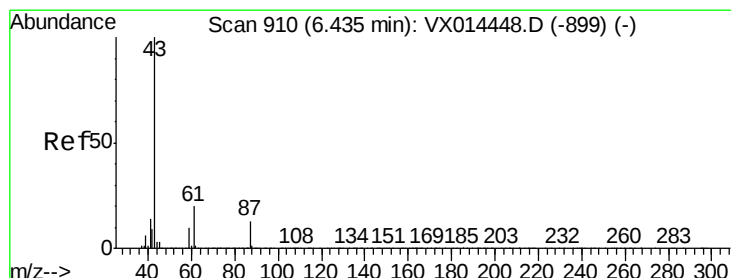
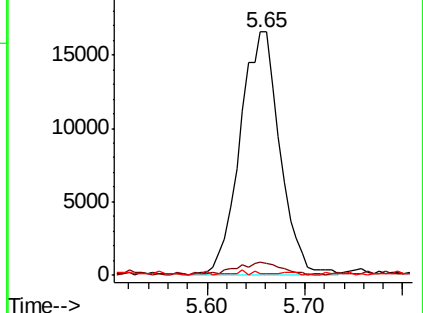
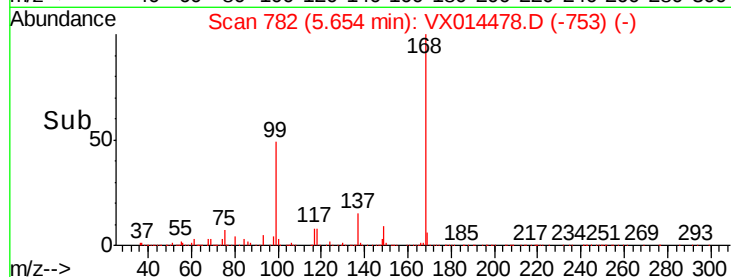
121 0.0 23.4 35.0#



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



#43

Isopropyl Acetate

Concen: 9.922 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

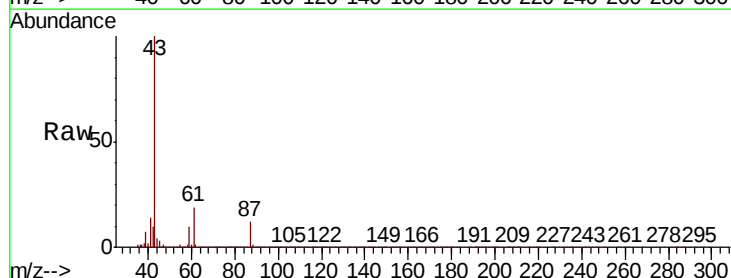
Tgt Ion: 43 Resp: 139410

Ion Ratio Lower Upper

43 100

61 20.2 16.6 24.8

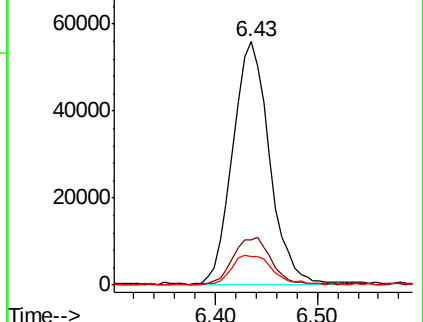
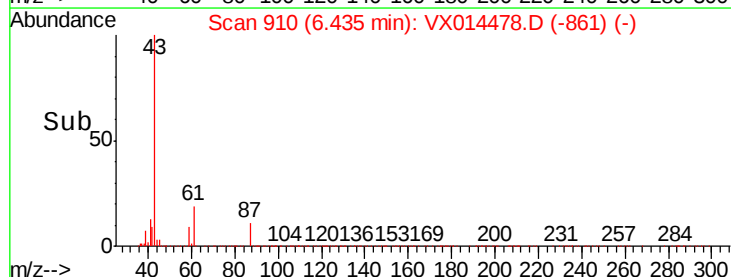
87 13.4 10.8 16.2

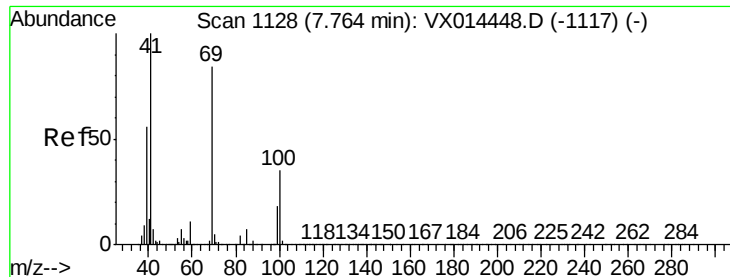


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

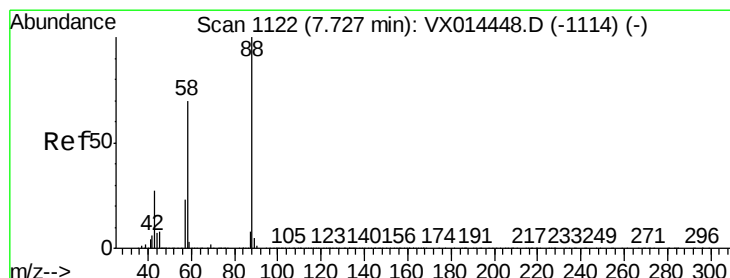
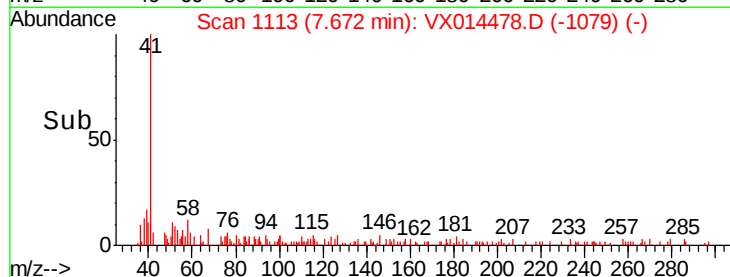
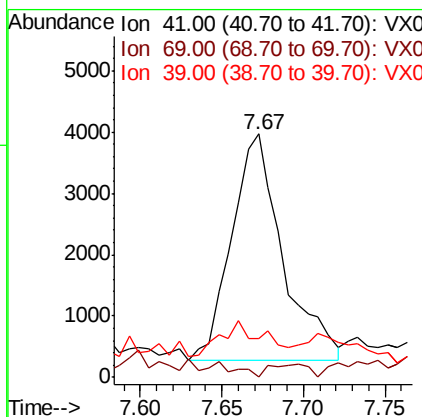
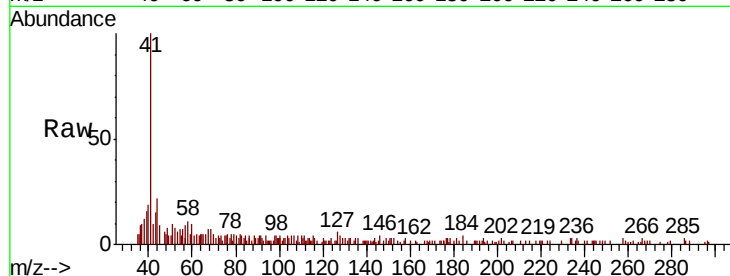




#48
Methvl methacrylate
Concen: 1.193 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX014478.D
Acq: 08 Jan 2020 17:54

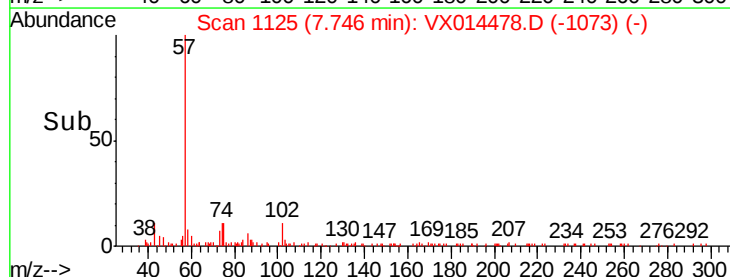
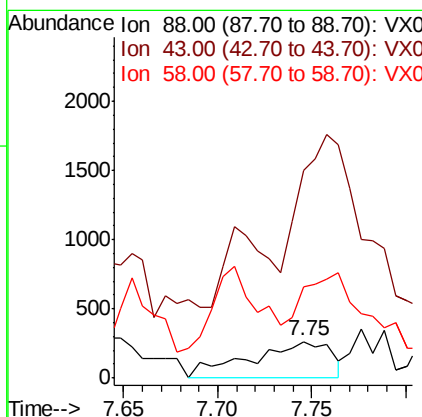
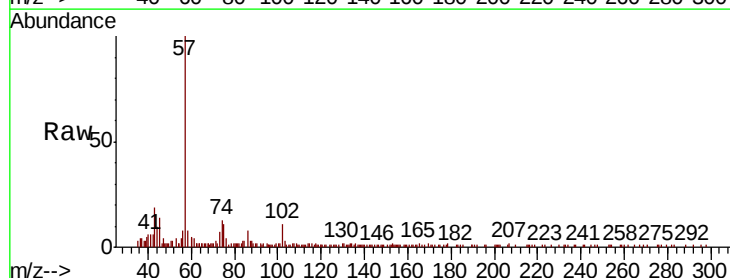
Instrument :
MSVOA_X
ClientSampleId :

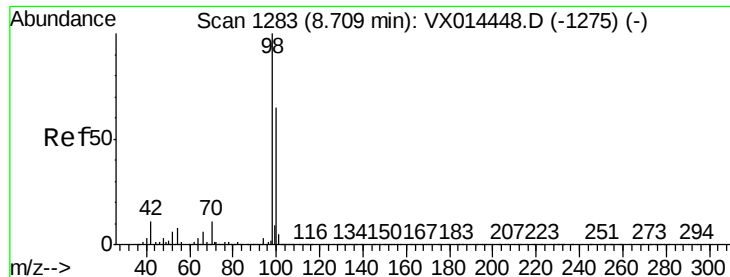
Tot Ion: 41 Resp: 8029
Ion Ratio Lower Upper
41 100
69 0.0 65.5 98.3#
39 0.0 43.9 65.9#



#49
1,4-Dioxane
Concen: 5.498 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.02 min
Lab File: VX014478.D
Acq: 08 Jan 2020 17:54

Tgt Ion: 88 Resp: 784
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 0.0 57.1 85.7#





#50

Toluene-d8

Concen: 50.931 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

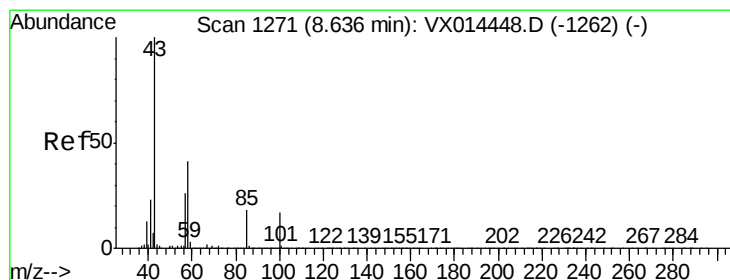
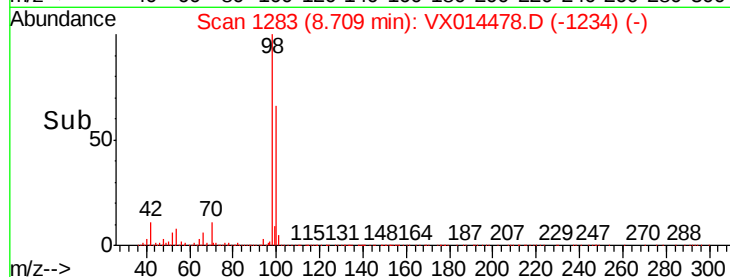
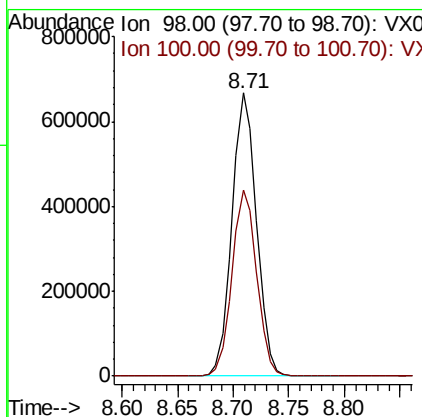
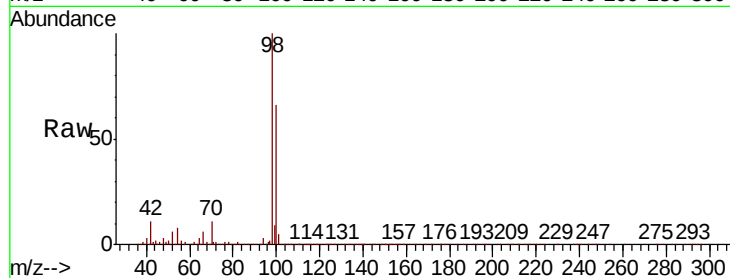
ClientSampleId :

Tot Ion: 98 Resp: 1018811

Ion Ratio Lower Upper

98 100

100 65.8 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 15.028 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014478.D

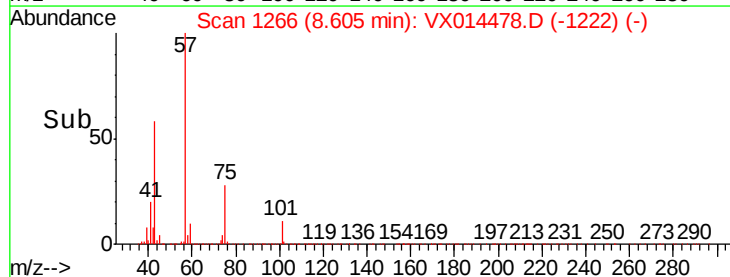
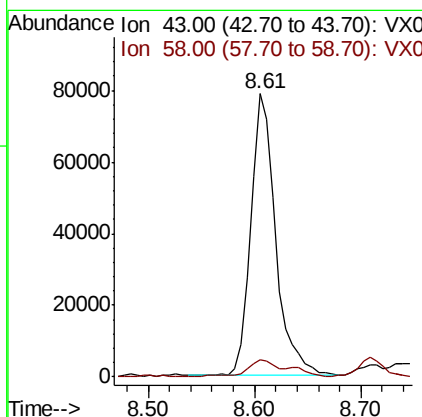
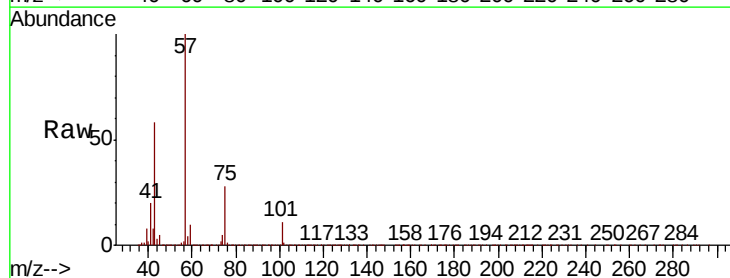
Acq: 08 Jan 2020 17:54

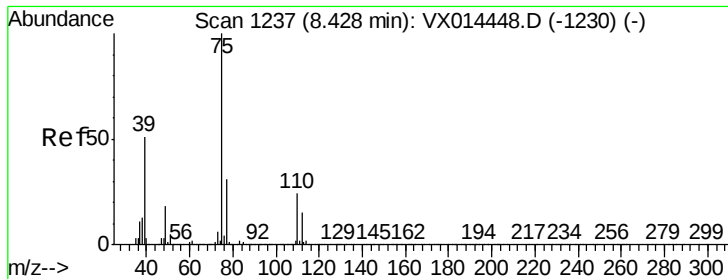
Tgt Ion: 43 Resp: 128680

Ion Ratio Lower Upper

43 100

58 6.9 32.4 48.6#



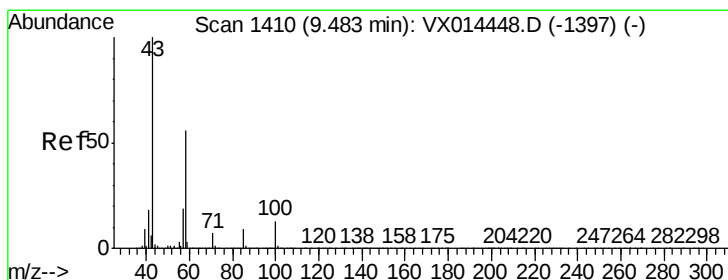
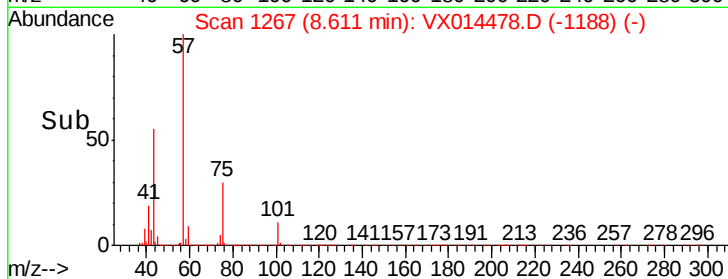
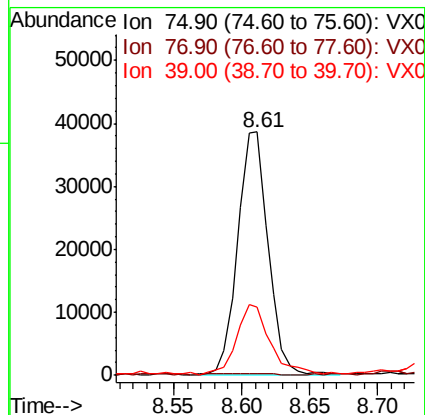
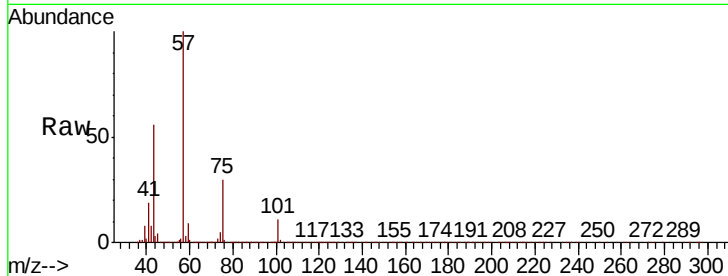


#54

cis-1,3-Dichloropropene
 Concen: 6.180 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014478.D
 Acq: 08 Jan 2020 17:54

Instrument :
 MSVOA_X
 ClientSampled :

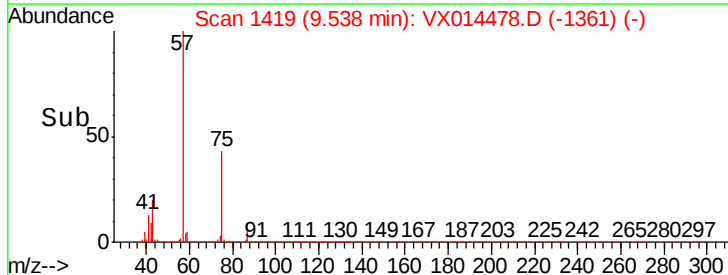
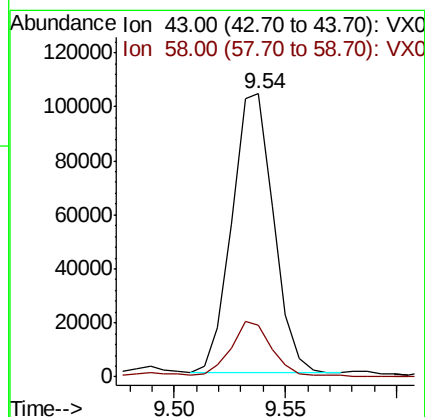
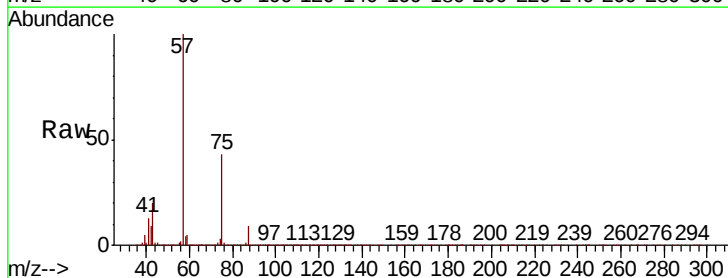
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.1	25.0	37.4#
39	27.3	40.7	61.1#

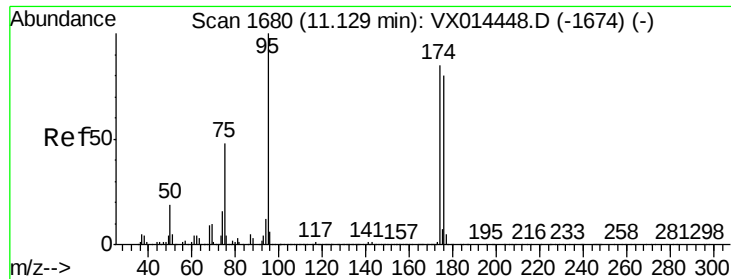


#59

2-Hexanone
 Concen: 19.940 ug/l
 RT: 9.54 min Scan# 1419
 Delta R.T. 0.05 min
 Lab File: VX014478.D
 Acq: 08 Jan 2020 17:54

Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.7	27.9	83.7#





#62

4-Bromofluorobenzene

Concen: 48.077 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

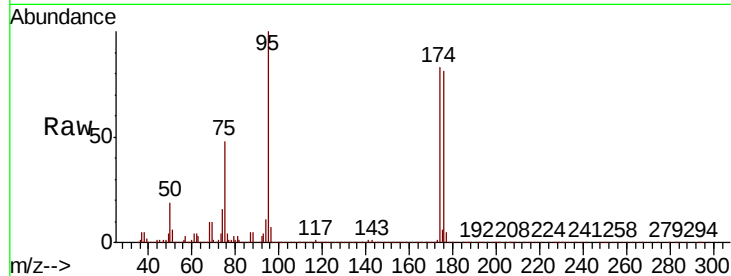
Tot Ion: 95 Resp: 353056

Ion Ratio Lower Upper

95 100

174 89.9 0.0 180.8

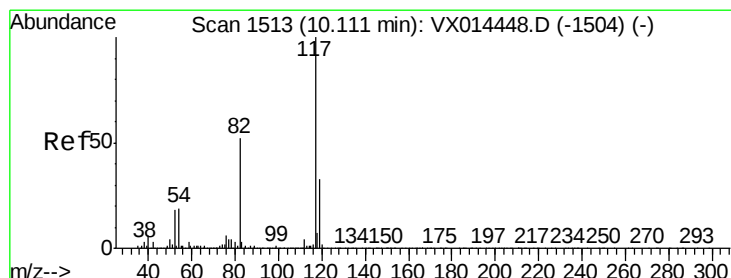
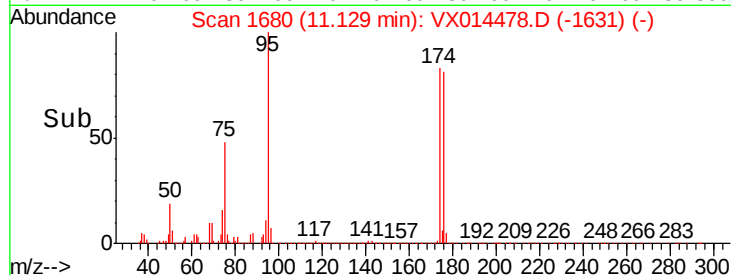
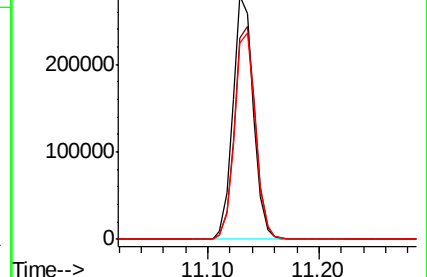
176 86.8 0.0 172.8



Abundance Ion 94.90 (94.60 to 95.60): VX014448.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX014448.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX014448.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

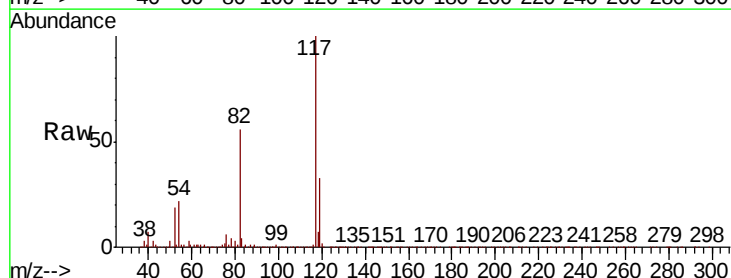
Tgt Ion: 117 Resp: 773670

Ion Ratio Lower Upper

117 100

82 56.2 41.8 62.6

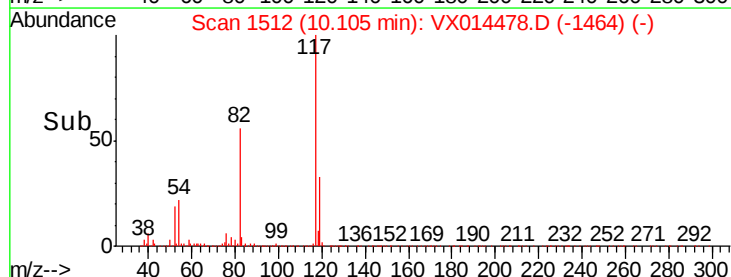
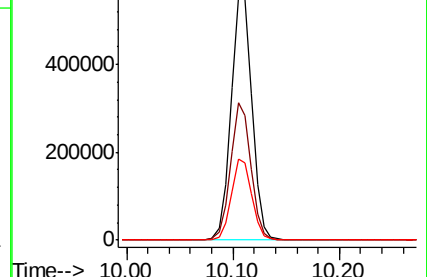
119 33.3 26.2 39.4

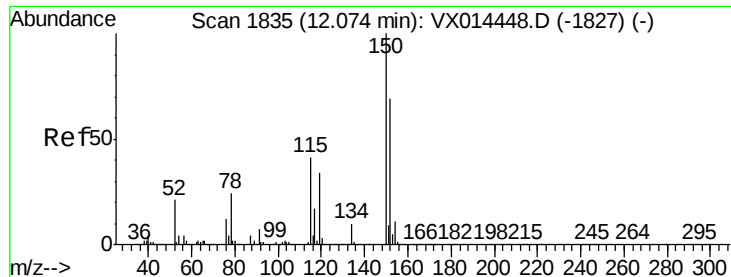


Abundance Ion 116.90 (116.60 to 117.60): VX014448.D (-1504) (-)

Ion 82.00 (81.70 to 82.70): VX014448.D (-1504) (-)

Ion 118.90 (118.60 to 119.60): VX014448.D (-1504) (-)



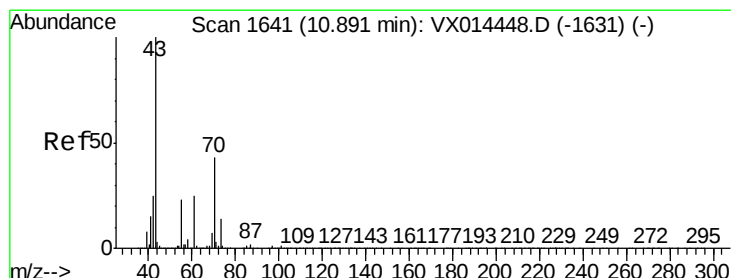
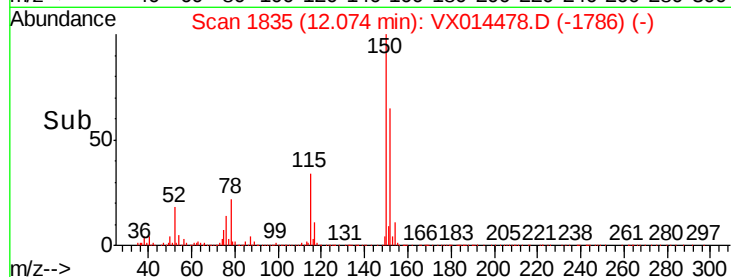
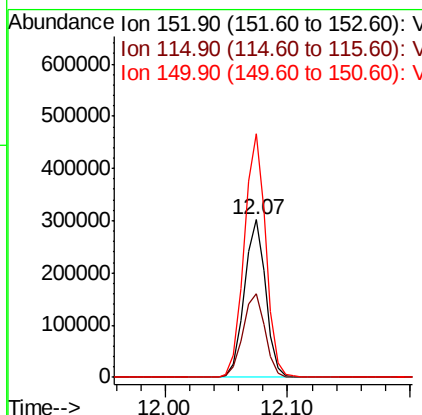
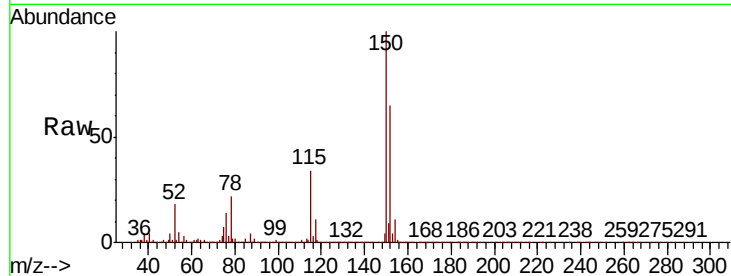


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014478.D
Acq: 08 Jan 2020 17:54

Instrument :
MSVOA_X
ClientSampleId :

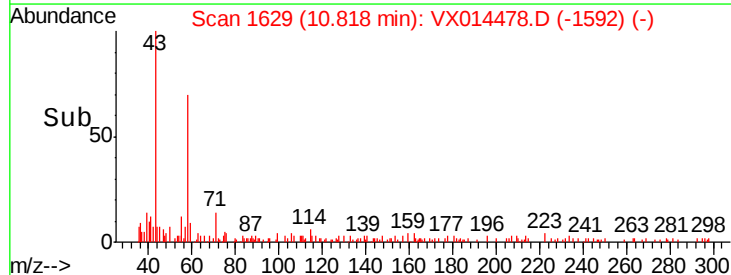
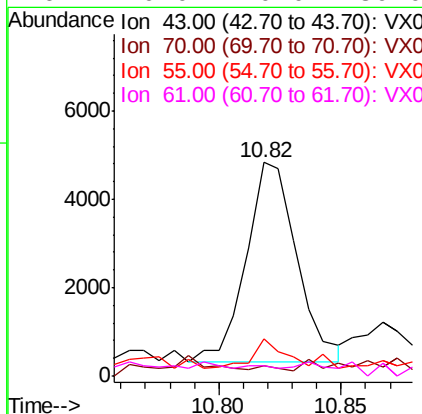
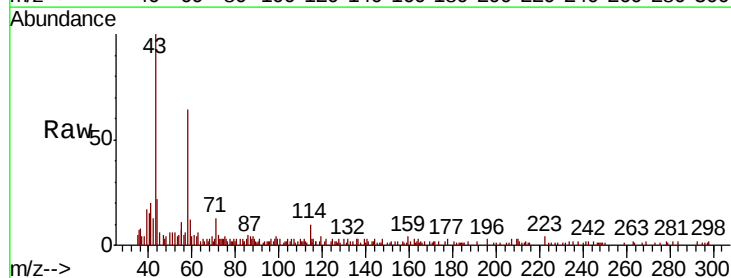
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.5	118.3
150	156.2	0.0	350.2

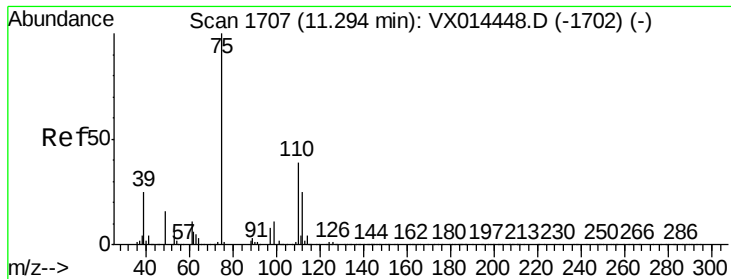


#74

N-ethyl acetate
Concen: 0.576 ug/l
RT: 10.82 min Scan# 1629
Delta R.T. -0.07 min
Lab File: VX014478.D
Acq: 08 Jan 2020 17:54

Tgt Ion	Ratio	Lower	Upper
43	100		
70	4.9	35.1	52.7#
55	12.2	19.3	28.9#
61	0.0	20.0	30.0#





#76

1,2,3-Trichloropropane

Concen: 22.743 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

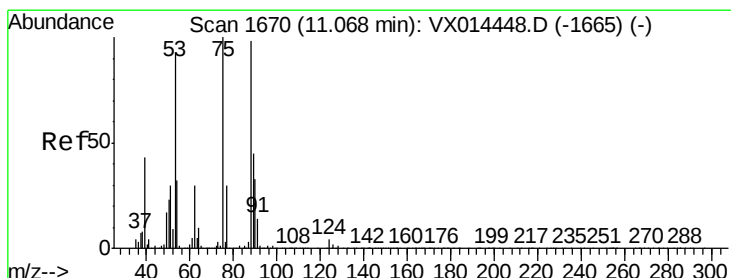
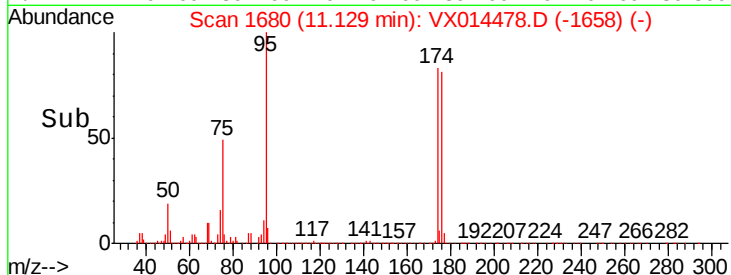
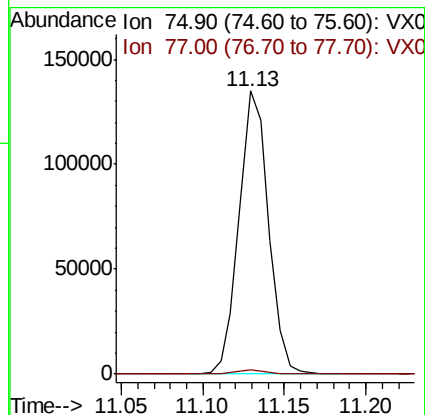
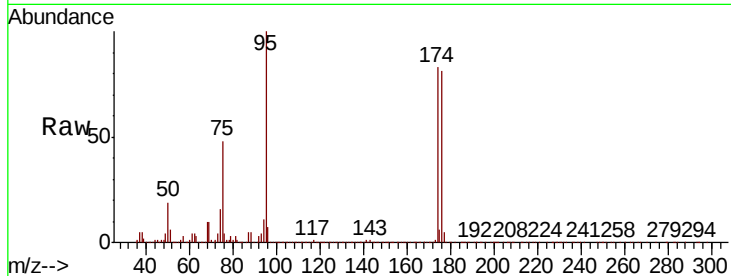
ClientSampleId :

Tot Ion: 75 Resp: 170472

Ion Ratio Lower Upper

75 100

77 1.8 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.128 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

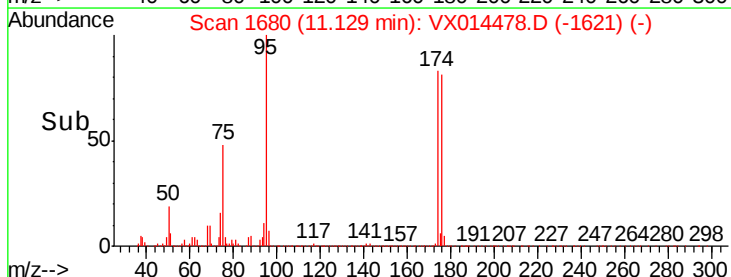
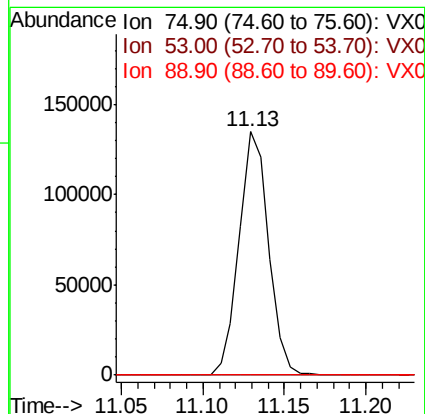
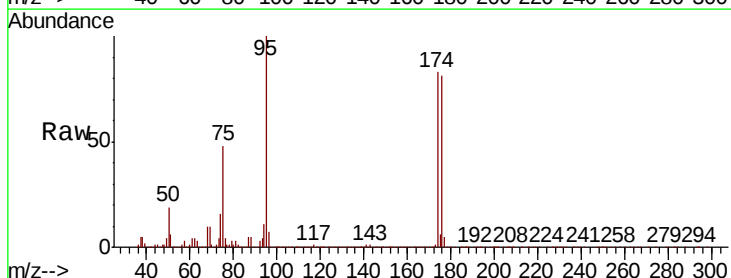
Tgt Ion: 75 Resp: 170472

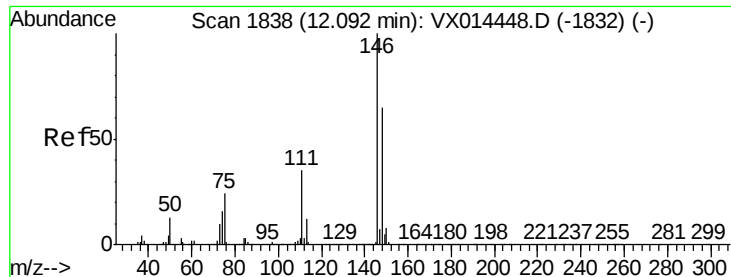
Ion Ratio Lower Upper

75 100

53 0.4 74.8 112.2#

89 0.1 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.03 min Scan# 1827

Delta R.T. -0.07 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

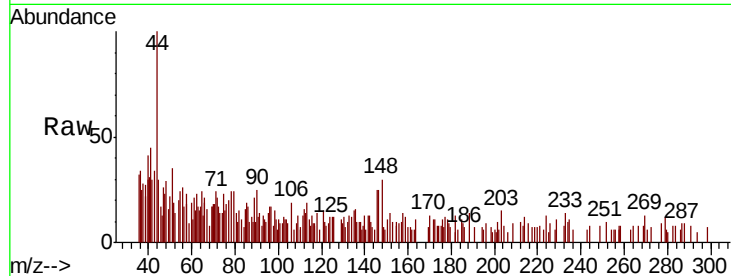
Tot Ion:146 Resp: 525

Ion Ratio Lower Upper

146 100

111 39.6 18.1 54.1

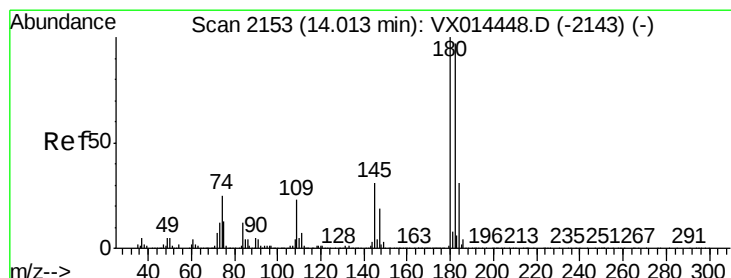
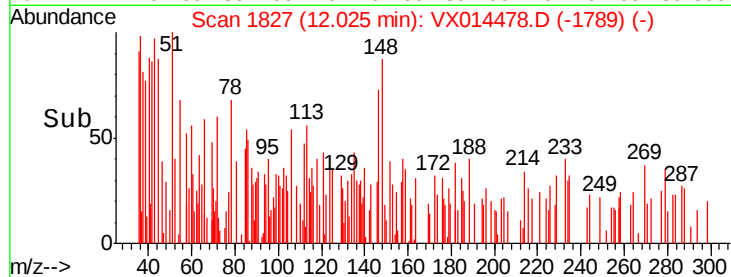
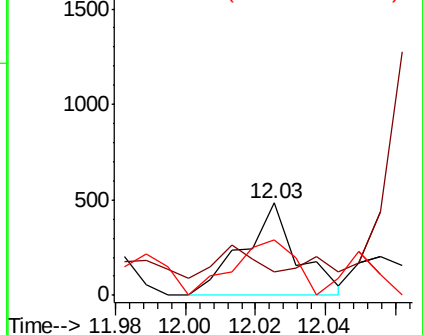
148 66.7 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 13.94 min Scan# 2141

Delta R.T. -0.07 min

Lab File: VX014478.D

Acq: 08 Jan 2020 17:54

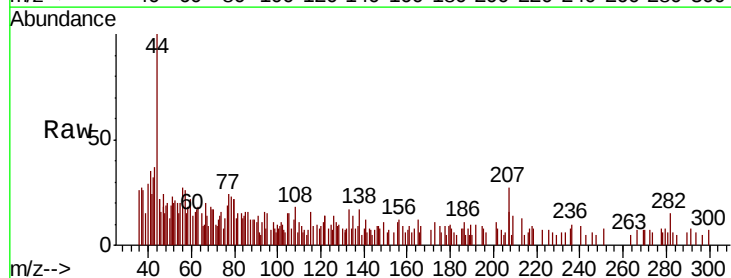
Tgt Ion:180 Resp: 187

Ion Ratio Lower Upper

180 100

182 119.8 47.9 143.6

145 29.4 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

