

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010820\
 Data File : VX014473.D
 Acq On : 08 Jan 2020 15:58
 Operator : JC/SP
 Sample : K6474-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:09:58 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	522640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	817038	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	742515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	341887	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	286668	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
35) Dibromofluoromethane	5.49	113	239149	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
50) Toluene-d8	8.71	98	969928	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	11.14	95	332759	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	

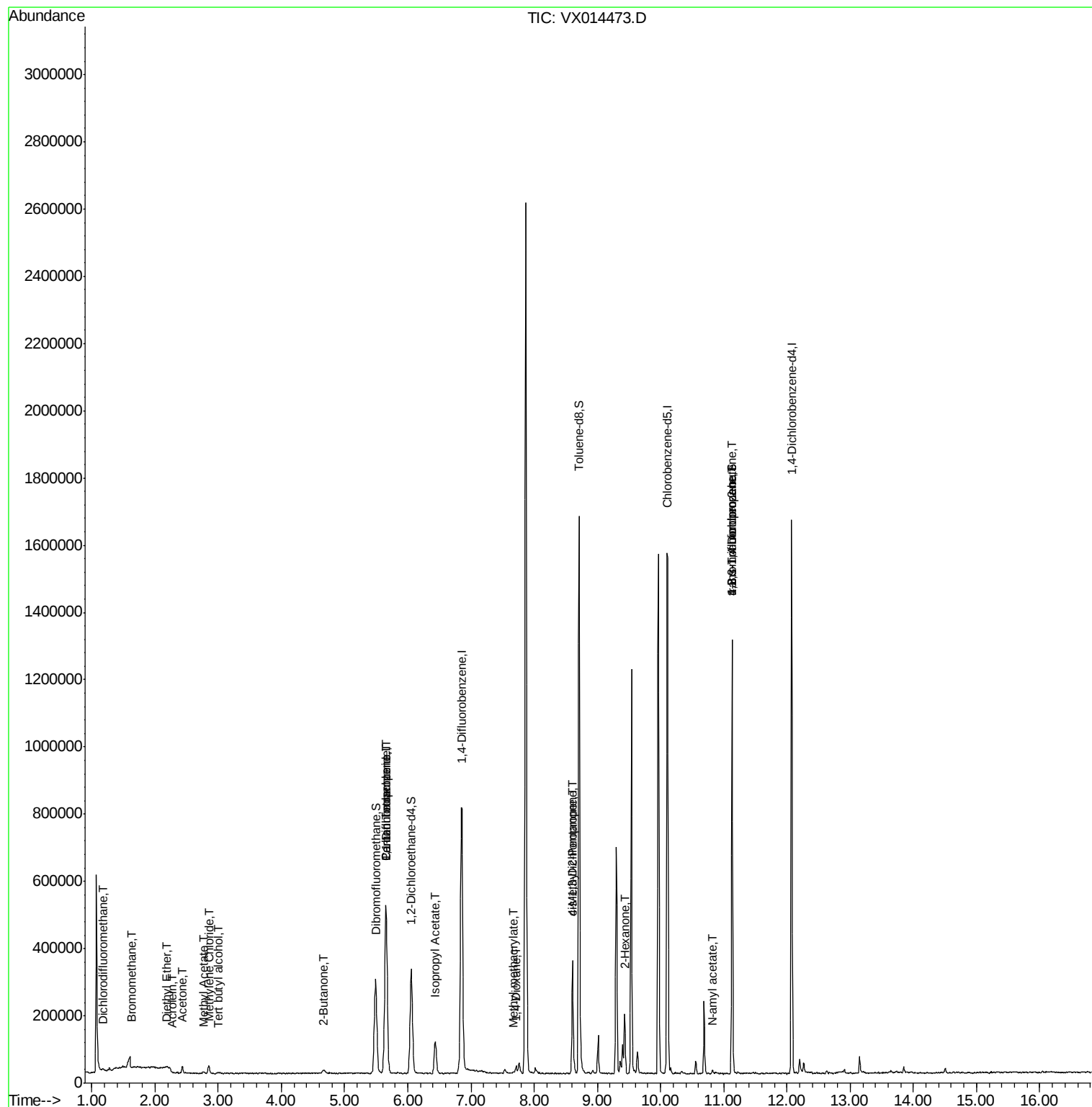
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	94	0.267	ug/l #	42
5) Bromomethane	1.64	94	1561	0.317	ug/l #	41
6) Chloroethane	1.72	64	666	Below Cal	#	44
8) Diethyl Ether	2.18	74	1310	0.341	ug/l	83
11) Tert butyl alcohol	3.01	59	3123	2.564	ug/l	97
13) Acrolein	2.27	56	353	0.362	ug/l #	15
16) Acetone	2.43	43	22533	3.584	ug/l	92
18) Methyl Acetate	2.76	43	4341	0.518	ug/l #	52
20) Methylene Chloride	2.85	84	12207	2.080	ug/l	95
25) 2-Butanone	4.66	43	1797	0.412	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	34467	4.486	ug/l #	51
38) Carbon Tetrachloride	5.65	117	45632	6.454	ug/l #	19
43) Isopropyl Acetate	6.43	43	131147	9.727	ug/l	99
48) Methyl methacrylate	7.67	41	7236	1.121	ug/l #	16
49) 1,4-Dioxane	7.70	88	36	0.263	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	120673	14.688	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	55825	6.012	ug/l #	59
59) 2-Hexanone	9.43	43	125781	19.349	ug/l #	23
74) N-amyl acetate	10.82	43	5597	0.528	ug/l #	47
76) 1,2,3-Trichloropropane	11.14	75	161995	22.901	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	161995	60.546	ug/l #	12
88) 1,4-Dichlorobenzene	12.08	146	1068	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.65	180	710	Below Cal	#	79
96) 1,2,3-Trichlorobenzene	13.81	180	352	Below Cal		70

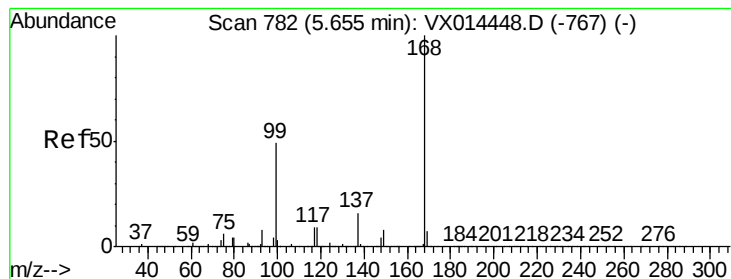
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX014473.D
Acq On : 08 Jan 2020 15:58
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Misc : 5.0mL/MSVOA X/WATER
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
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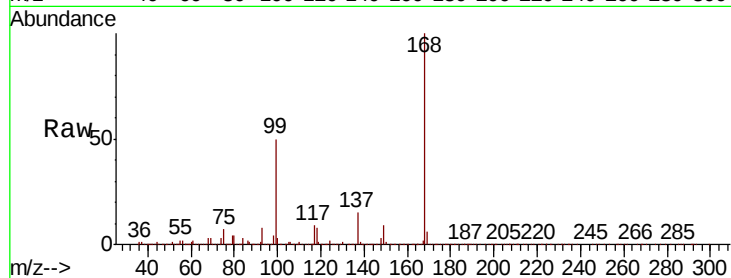


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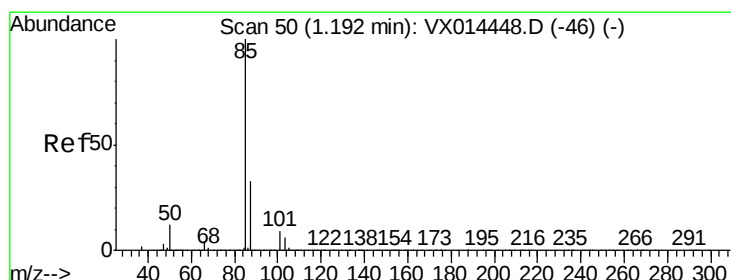
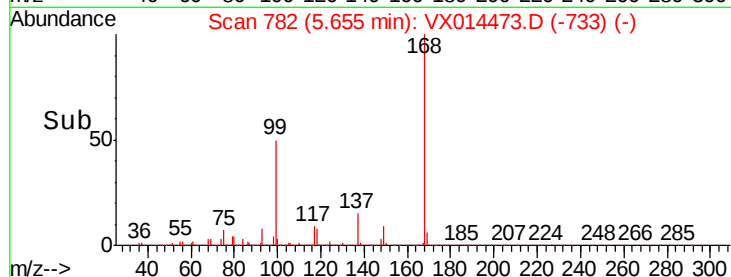
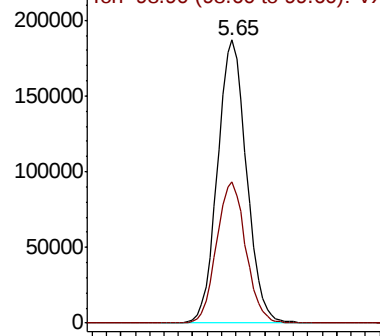
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.00 min
 Lab File: VX014473.D
 Acq: 08 Jan 2020 15:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:168 Resp: 522640
 Ion Ratio Lower Upper
 168 100
 99 50.0 39.2 58.8



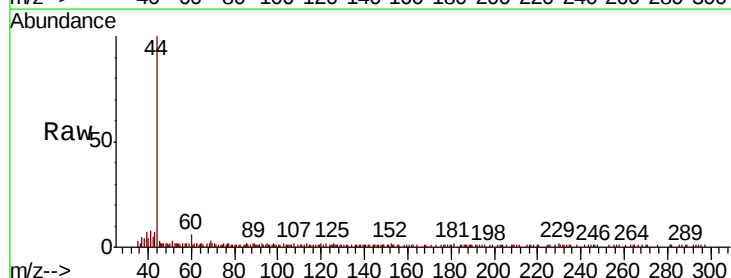
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



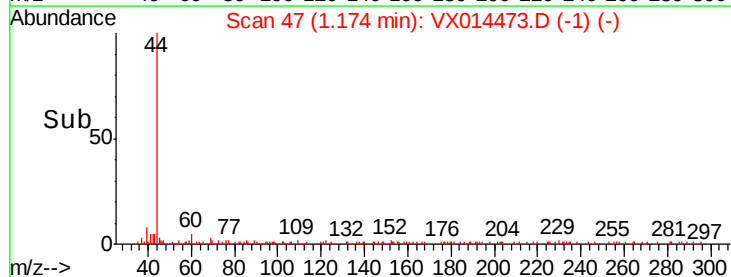
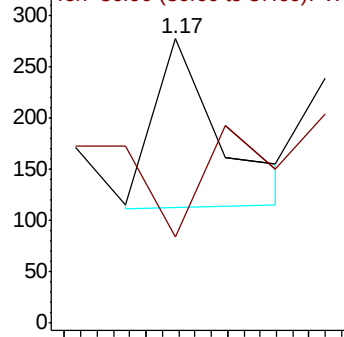
#2

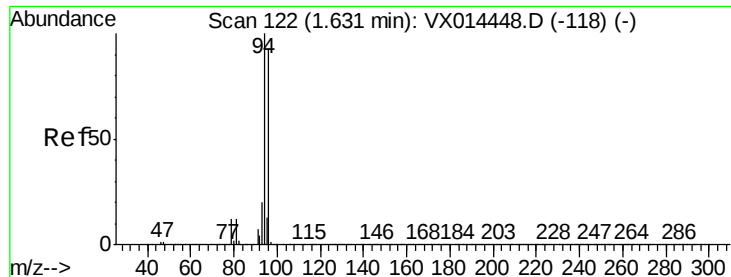
Dichlorodifluoromethane
 Concen: 0.267 ug/l
 RT: 1.17 min Scan# 47
 Delta R.T. -0.02 min
 Lab File: VX014473.D
 Acq: 08 Jan 2020 15:58

Tgt Ion: 85 Resp: 94
 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





#5

Bromomethane

Concen: 0.317 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

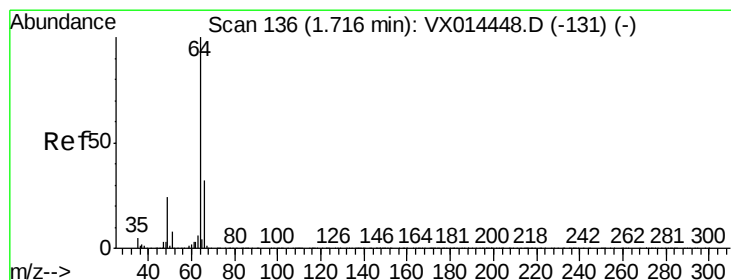
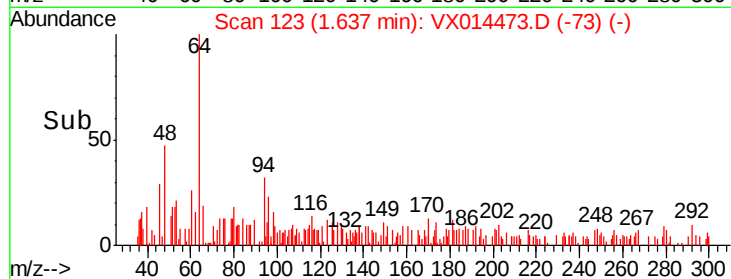
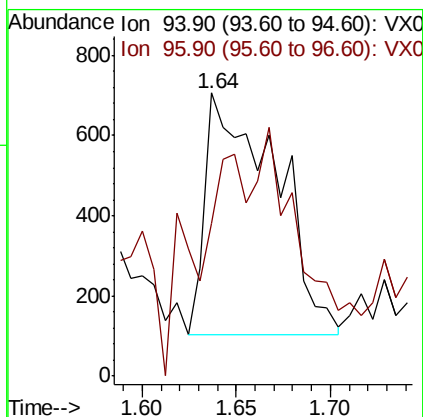
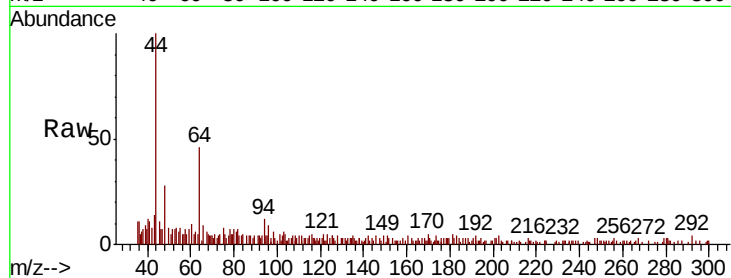
ClientSampleId :

Tot Ion: 94 Resp: 1561

Ion Ratio Lower Upper

94 100

96 35.8 74.2 111.2#



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.00 min

Lab File: VX014473.D

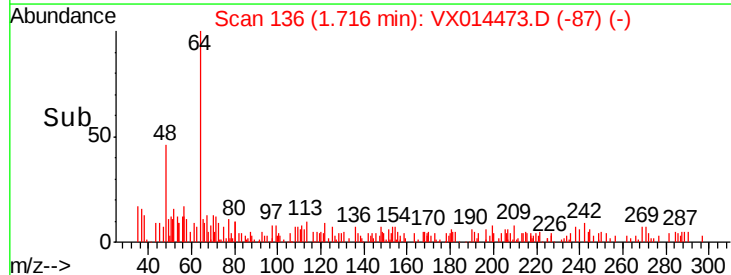
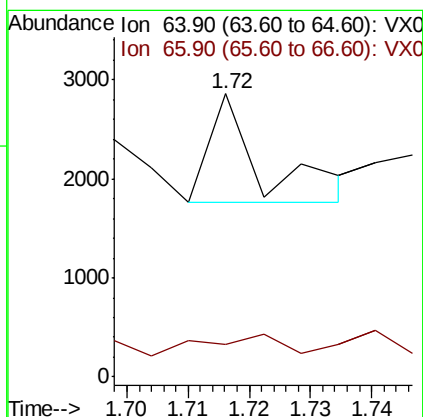
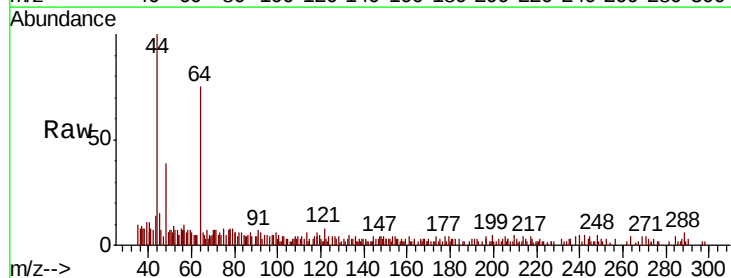
Acq: 08 Jan 2020 15:58

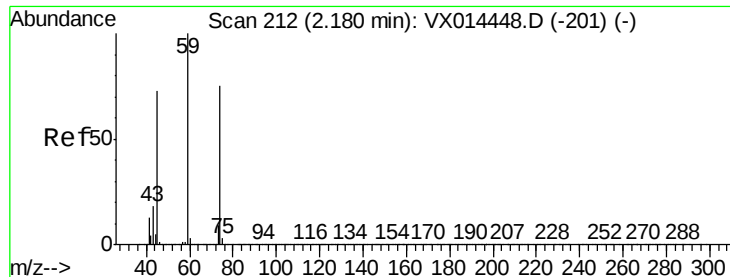
Tgt Ion: 64 Resp: 666

Ion Ratio Lower Upper

64 100

66 0.4 25.3 37.9#





#8

Diethyl Ether

Concen: 0.341 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

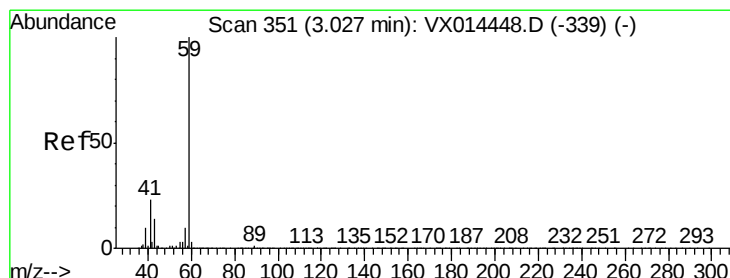
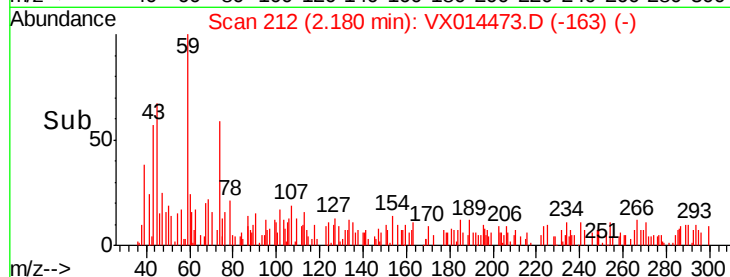
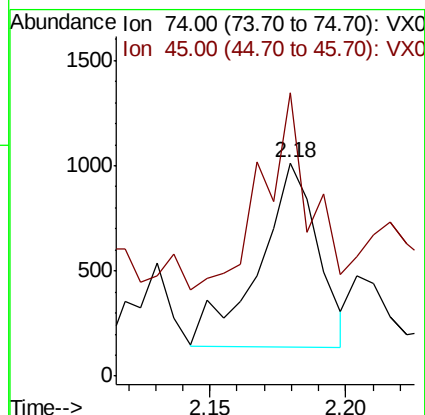
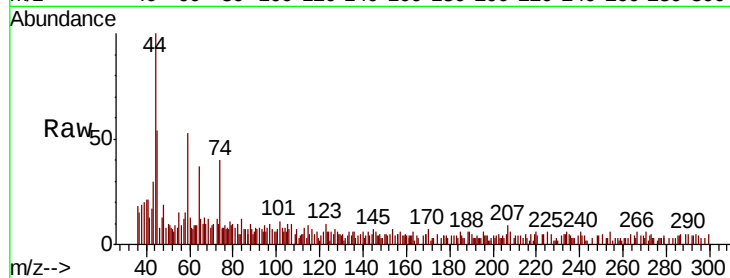
ClientSampleId :

Tot Ion: 74 Resp: 1310

Ion Ratio Lower Upper

74 100

45 114.1 48.7 146.1



#11

Tert butyl alcohol

Concen: 2.564 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX014473.D

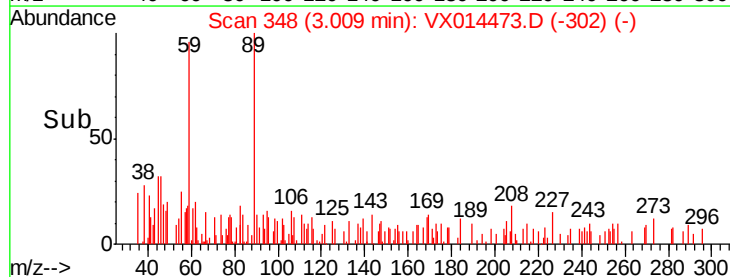
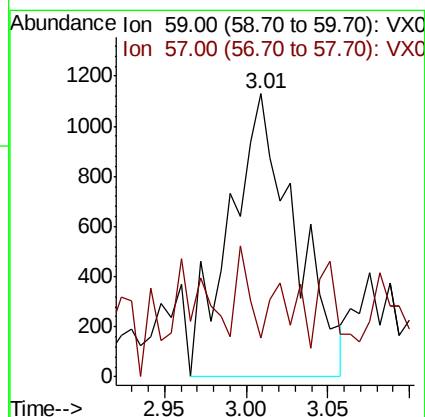
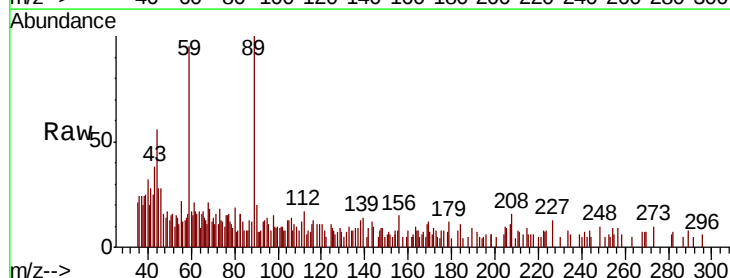
Acq: 08 Jan 2020 15:58

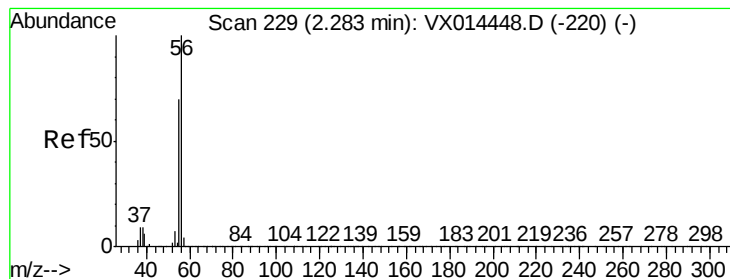
Tgt Ion: 59 Resp: 3123

Ion Ratio Lower Upper

59 100

57 9.4 8.5 12.7





#13

Acrolein

Concen: 0.362 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

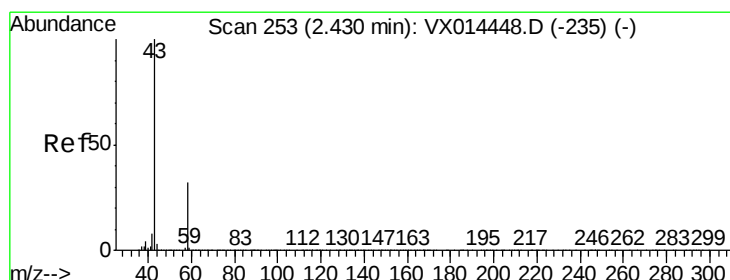
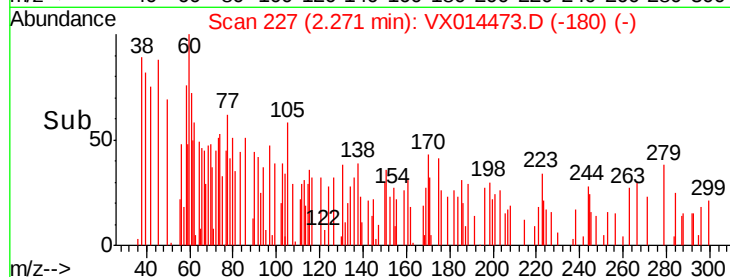
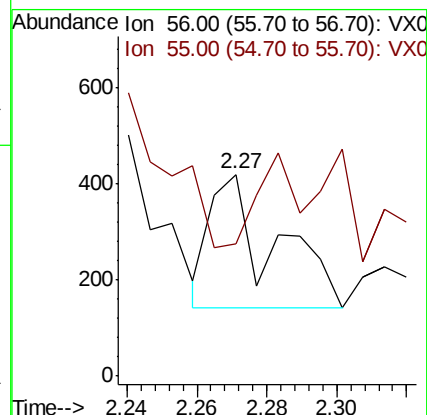
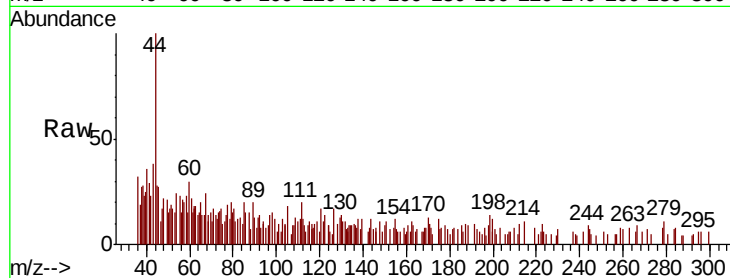
ClientSampleId :

Tot Ion: 56 Resp: 353

Ion Ratio Lower Upper

56 100

55 0.0 55.0 82.6#



#16

Acetone

Concen: 3.584 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014473.D

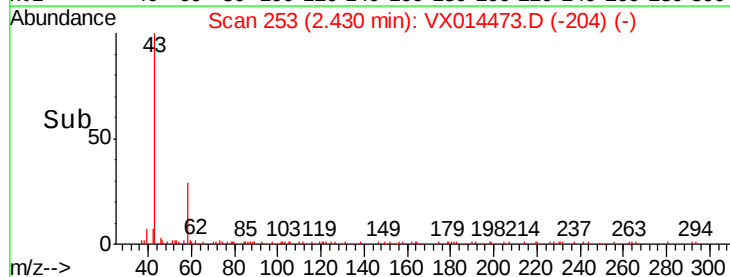
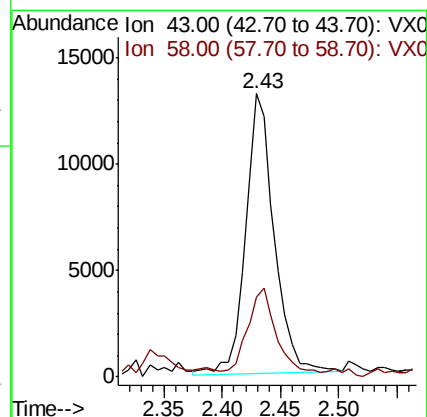
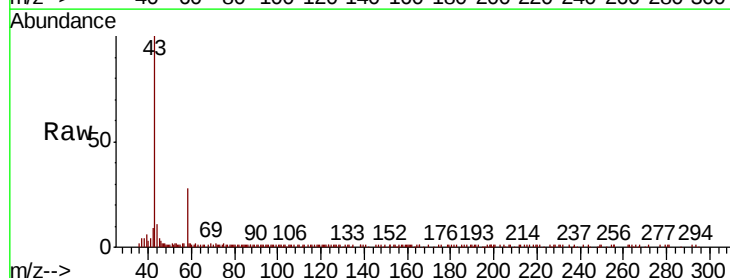
Acq: 08 Jan 2020 15:58

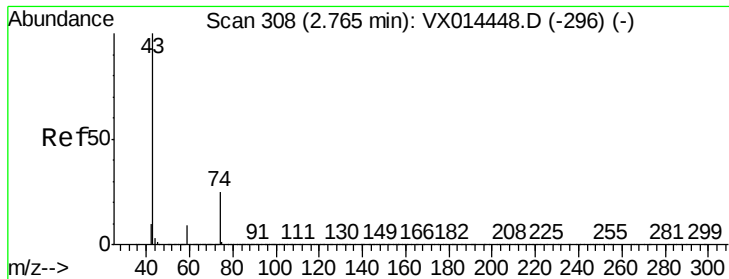
Tgt Ion: 43 Resp: 22533

Ion Ratio Lower Upper

43 100

58 27.3 25.4 38.0

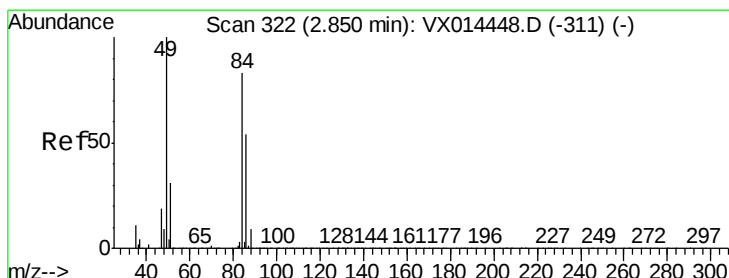
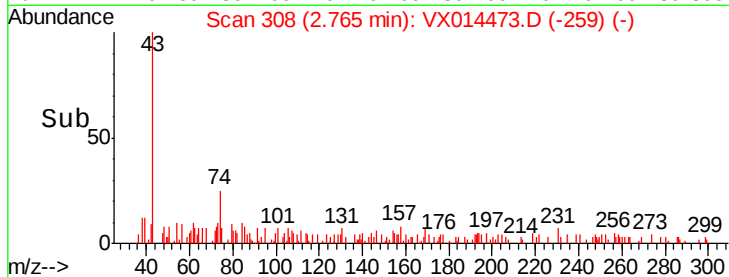
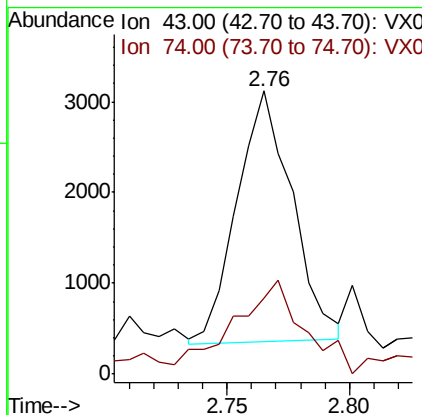
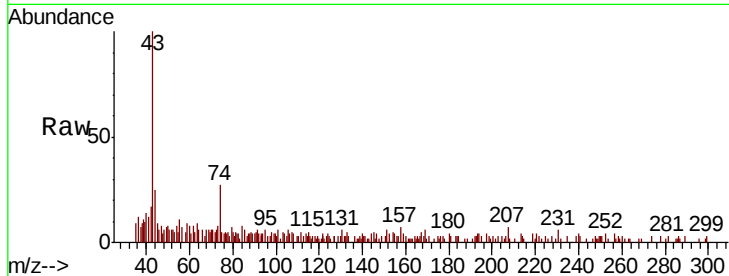




#18
Methyl Acetate
Concen: 0.518 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX014473.D
Acq: 08 Jan 2020 15:58

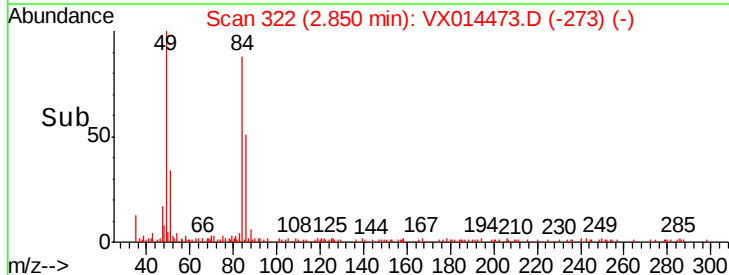
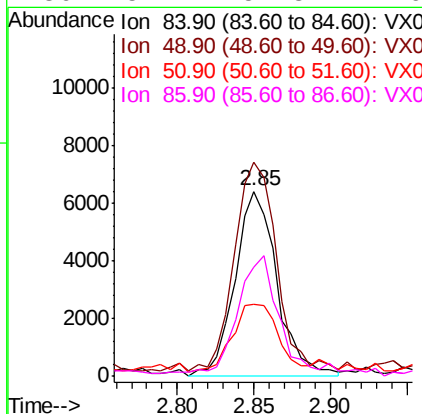
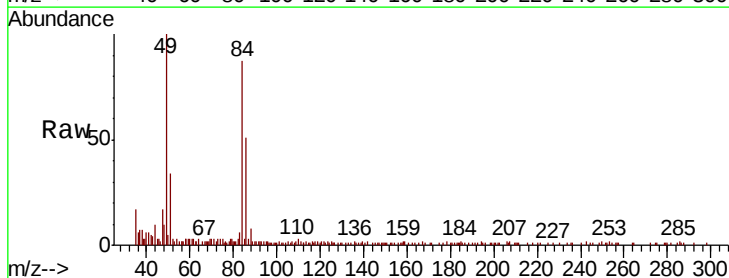
Instrument :
MSVOA_X
ClientSampled :

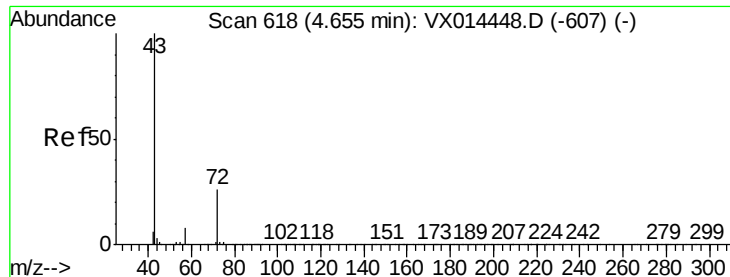
Tot Ion: 43 Resp: 4341
Ion Ratio Lower Upper
43 100
74 47.9 19.4 29.2#



#20
Methylene Chloride
Concen: 2.080 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014473.D
Acq: 08 Jan 2020 15:58

Tgt Ion: 84 Resp: 12207
Ion Ratio Lower Upper
84 100
49 115.0 95.8 143.8
51 37.7 30.2 45.4
86 57.7 51.8 77.6





#25

2-Butanone

Concen: 0.412 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

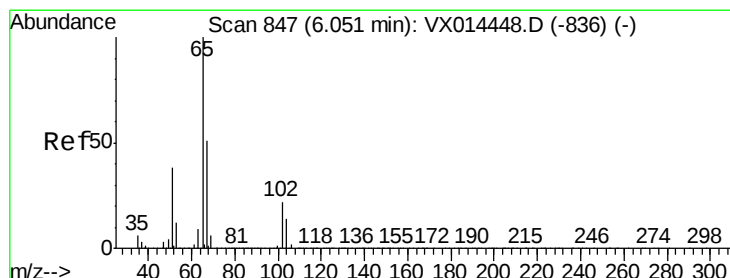
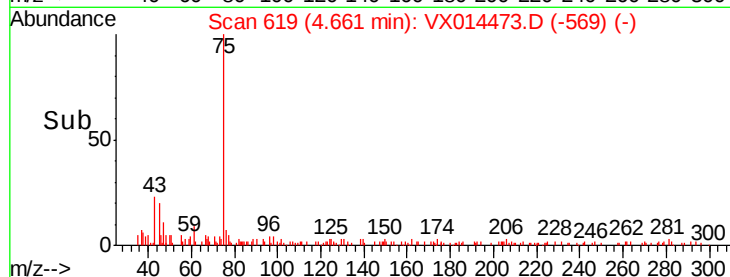
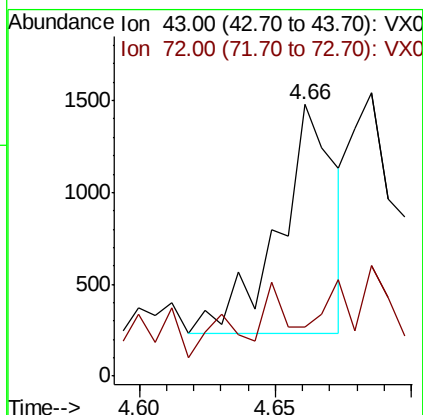
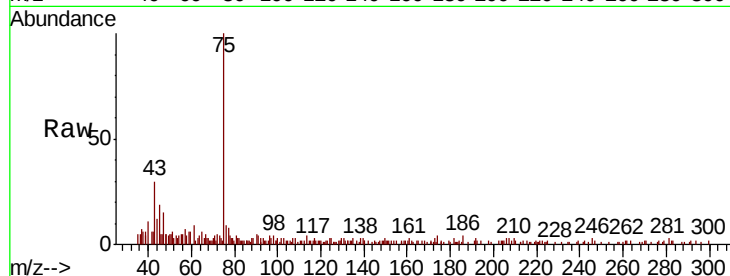
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1797

Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#



#33

1,2-Dichloroethane-d4

Concen: 49.134 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014473.D

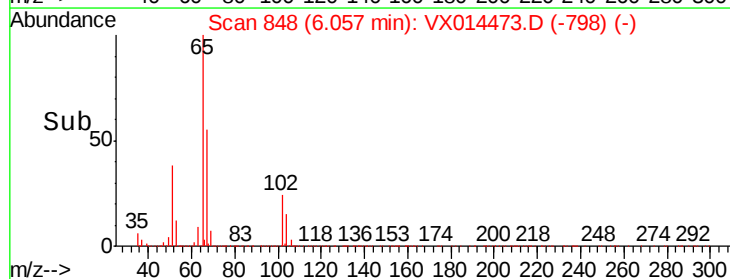
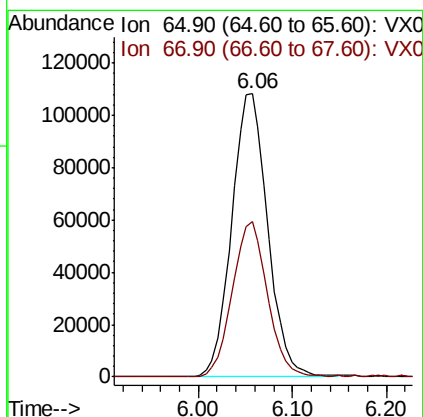
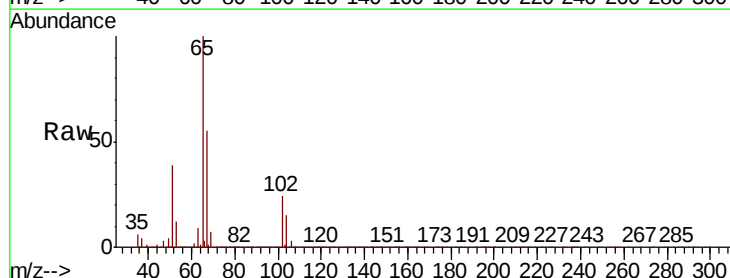
Acq: 08 Jan 2020 15:58

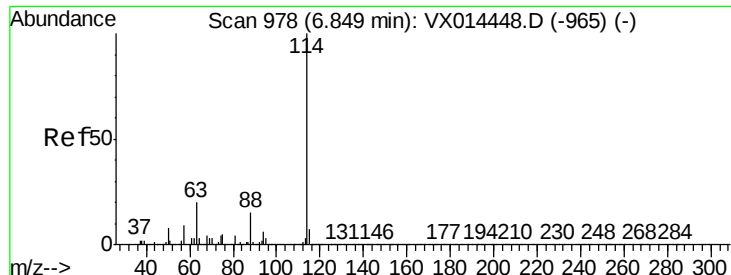
Tgt Ion: 65 Resp: 286668

Ion Ratio Lower Upper

65 100

67 53.2 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: VX014473.D

Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

ClientSampleId :

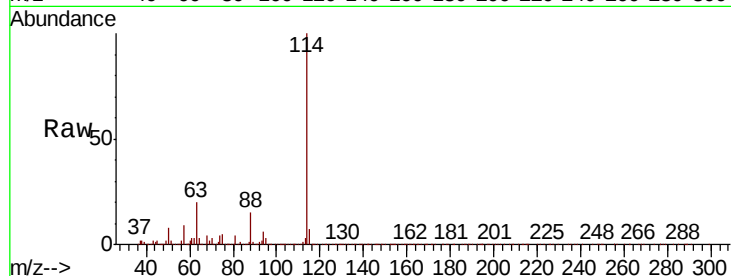
Tot Ion:114 Resp: 817038

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

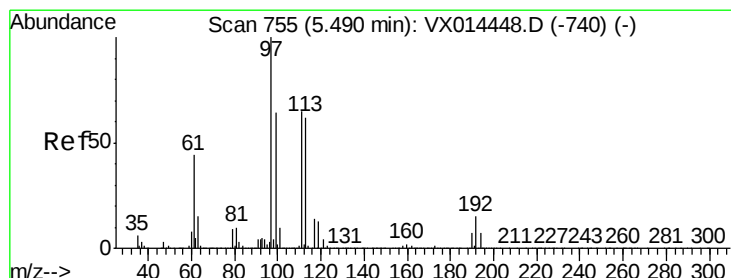
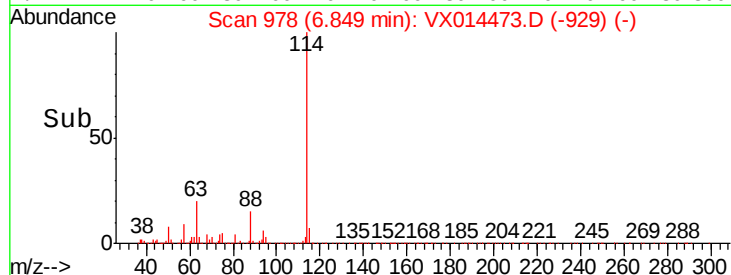
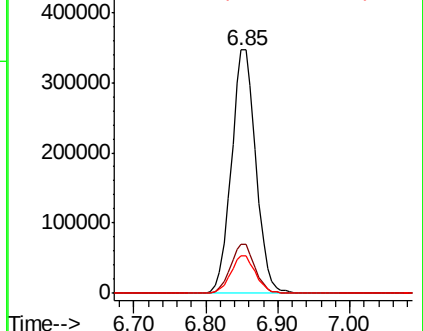
88 15.3 0.0 30.8



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: 48.353 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

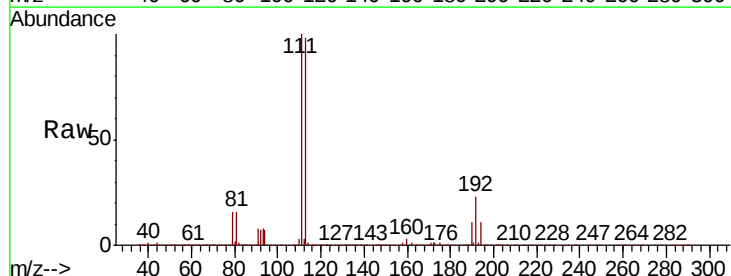
Tgt Ion:113 Resp: 239149

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

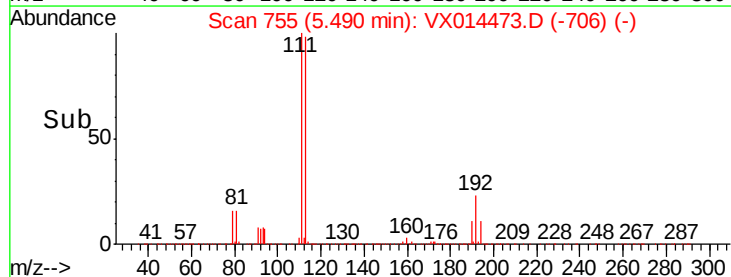
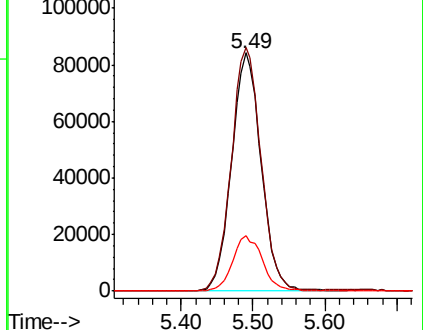
192 23.6 19.2 28.8

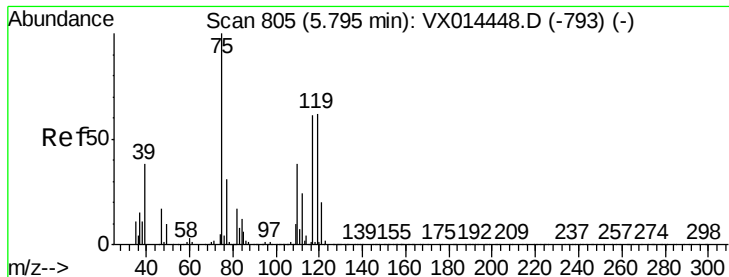


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

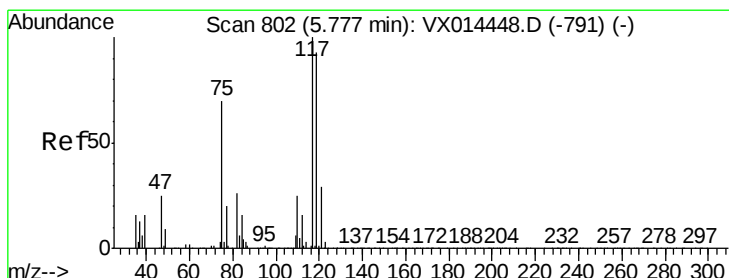
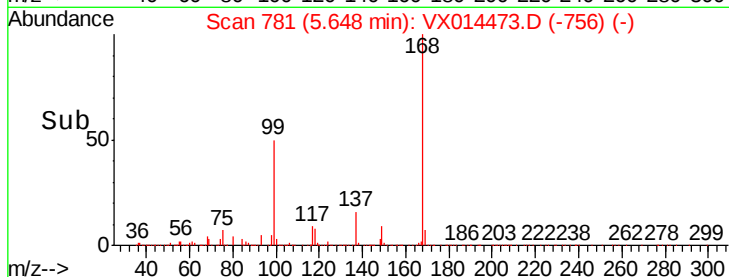
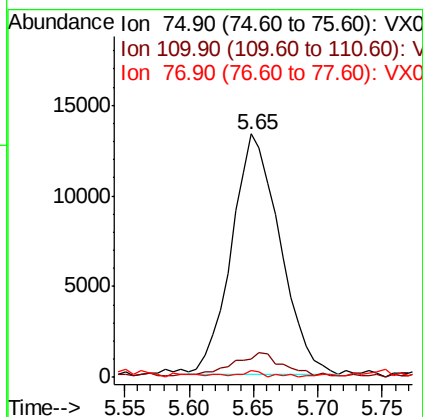
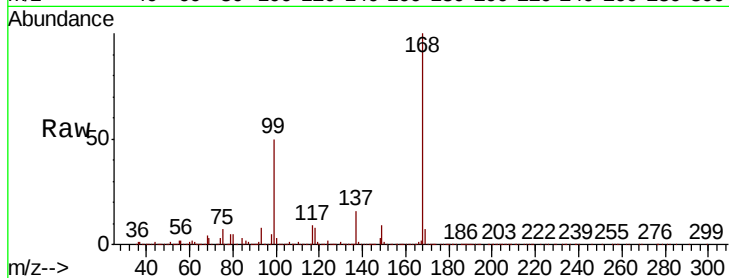




#36
 1,1-Dichloropropene
 Concen: 4.486 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014473.D
 Acq: 08 Jan 2020 15:58

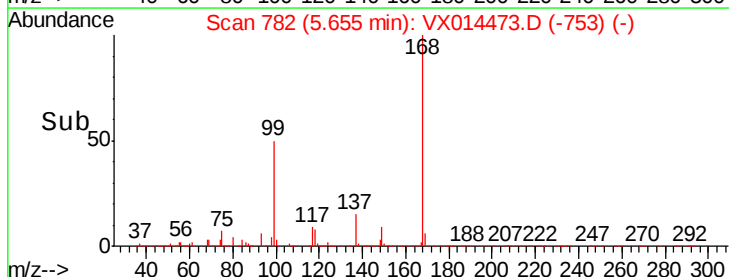
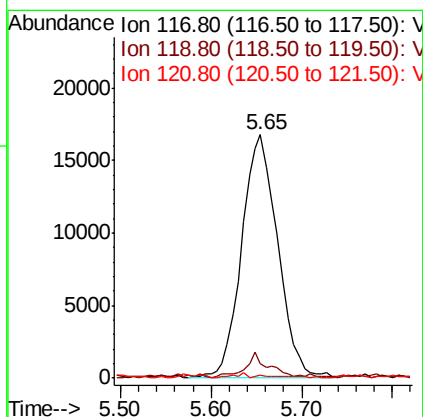
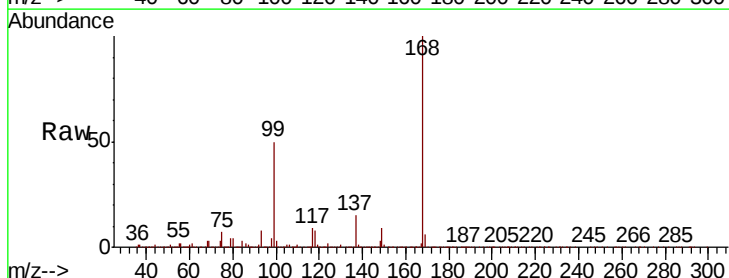
Instrument :
 MSVOA_X
 ClientSampleId :

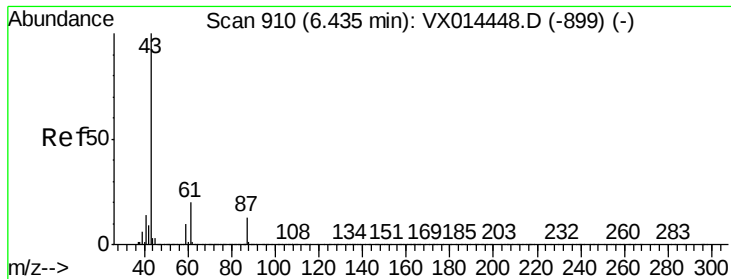
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.6	55.8#
77	1.1	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.454 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014473.D
 Acq: 08 Jan 2020 15:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	73.8	110.8#
121	1.4	23.4	35.0#



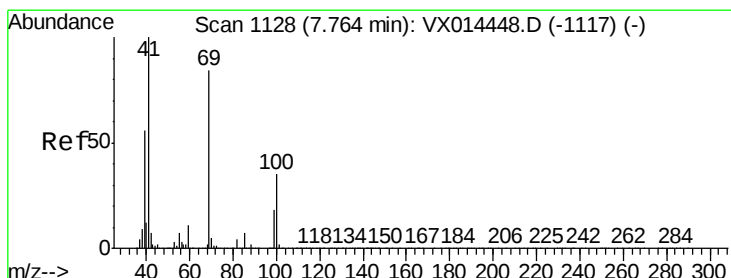
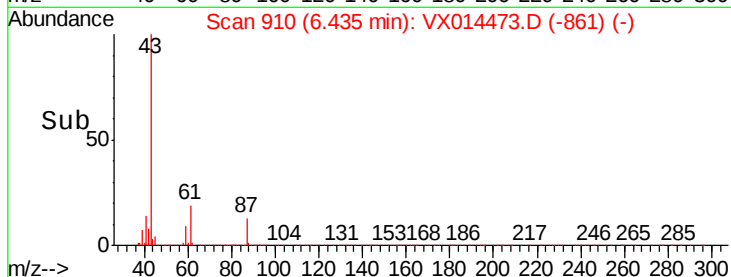
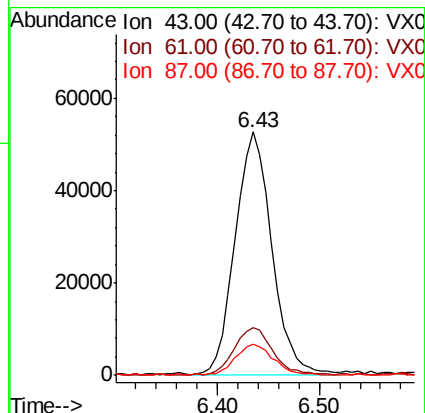
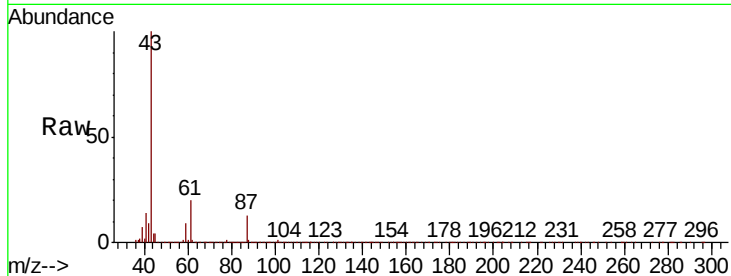


#43

Isopropyl Acetate
 Concen: 9.727 ug/l
 RT: 6.43 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: VX014473.D
 Acq: 08 Jan 2020 15:58

Instrument :
 MSVOA_X
 ClientSampleId :

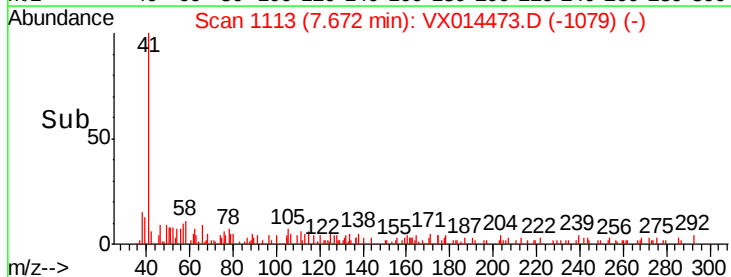
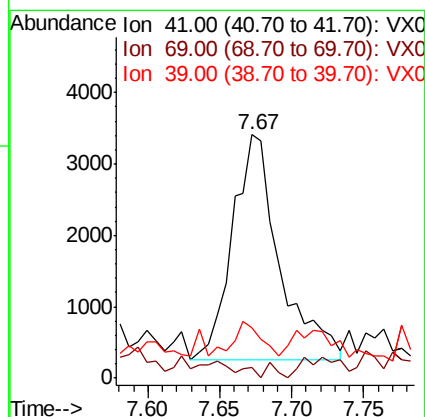
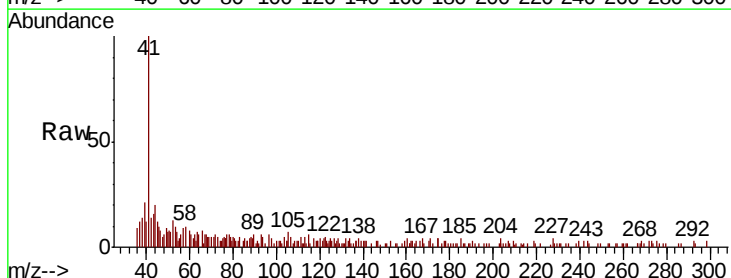
Tot Ion:	43	Resp:	131147
Ion	Ratio	Lower	Upper
43	100		
61	20.0	16.6	24.8
87	13.9	10.8	16.2

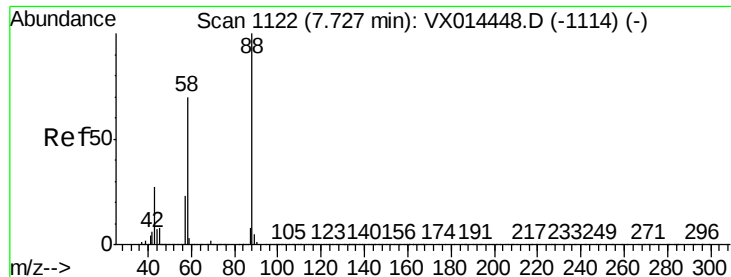


#48

Methyl methacrylate
 Concen: 1.121 ug/l
 RT: 7.67 min Scan# 1113
 Delta R.T. -0.09 min
 Lab File: VX014473.D
 Acq: 08 Jan 2020 15:58

Tgt Ion:	41	Resp:	7236
Ion	Ratio	Lower	Upper
41	100		
69	1.5	65.5	98.3#
39	0.0	43.9	65.9#





#49

1,4-Dioxane

Concen: 0.263 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.02 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

ClientSampleId :

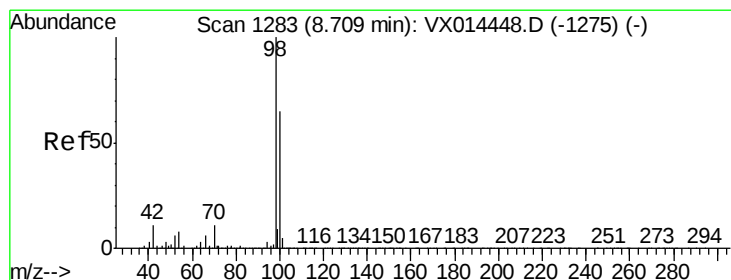
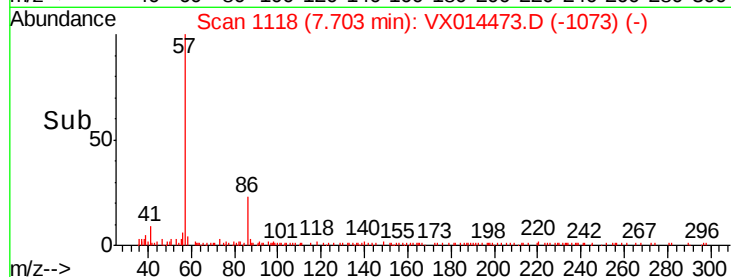
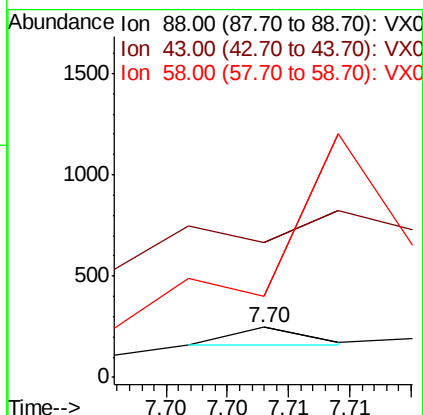
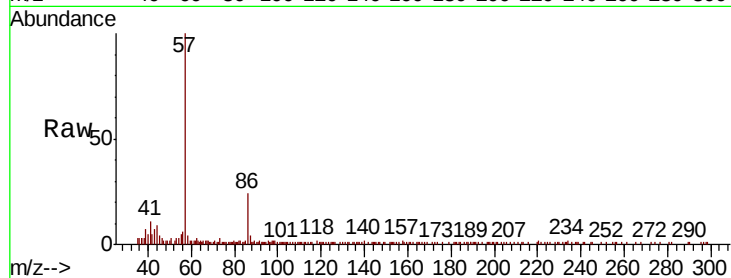
Tot Ion: 88 Resp: 36

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 4086.1 57.1 85.7#



#50

Toluene-d8

Concen: 50.535 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014473.D

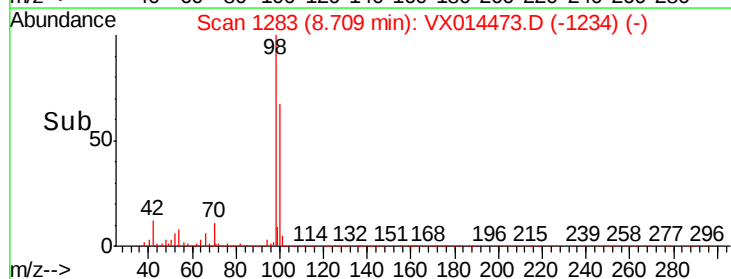
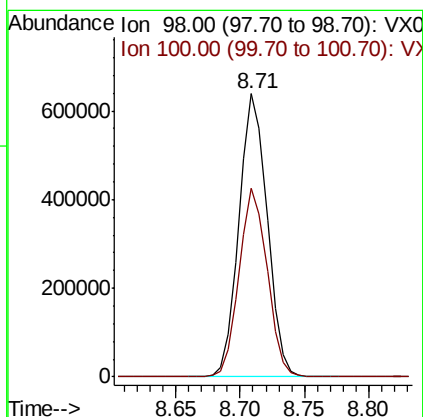
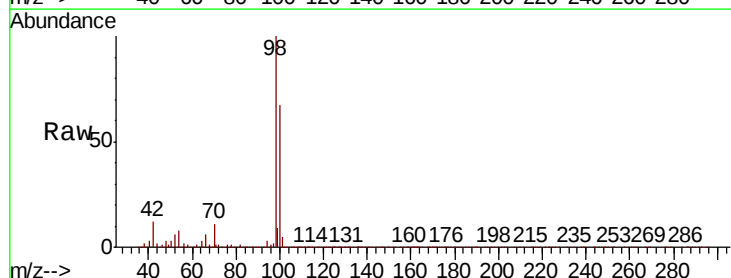
Acq: 08 Jan 2020 15:58

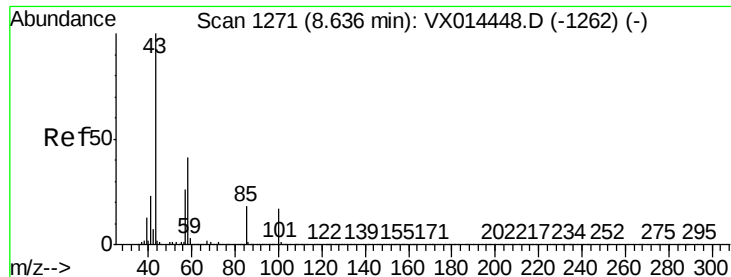
Tgt Ion: 98 Resp: 969928

Ion Ratio Lower Upper

98 100

100 66.1 53.2 79.8

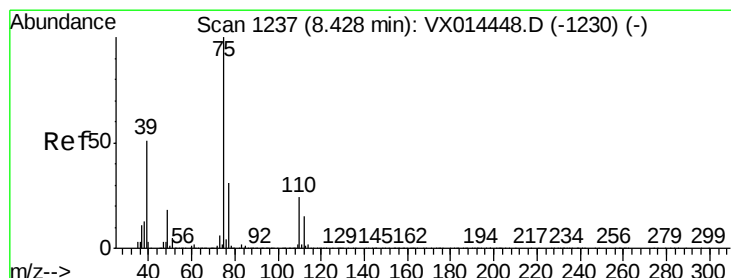
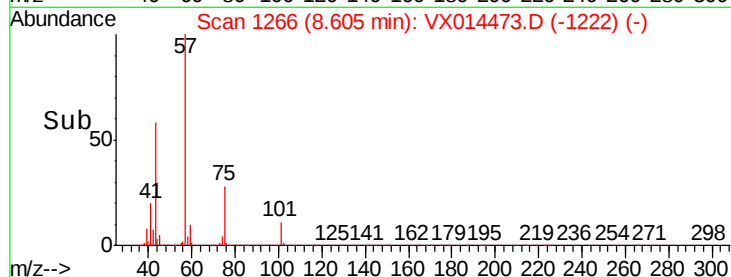
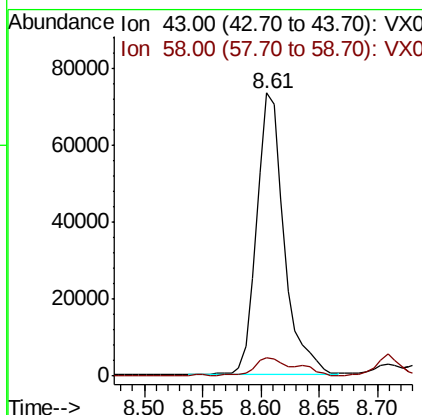
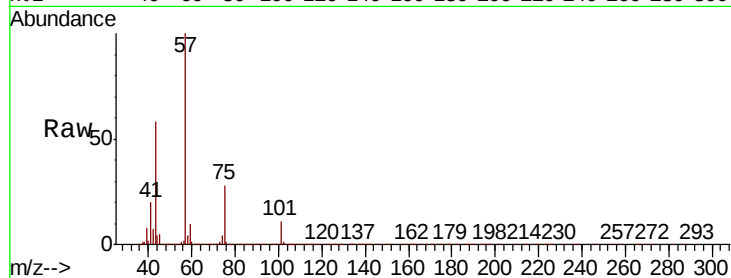




#51
4-Methyl-2-Pentanone
Concen: 14.688 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. -0.03 min
Lab File: VX014473.D
Acq: 08 Jan 2020 15:58

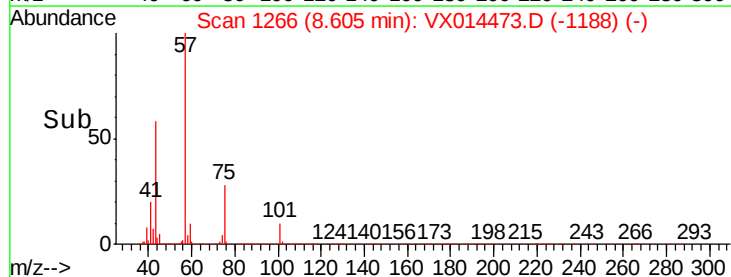
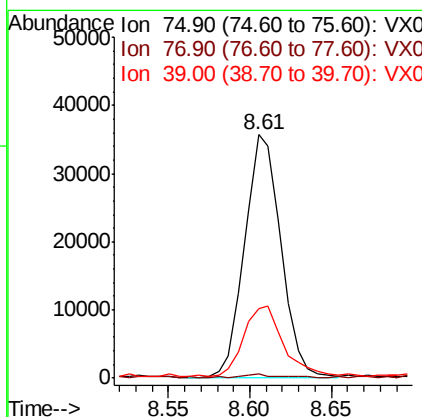
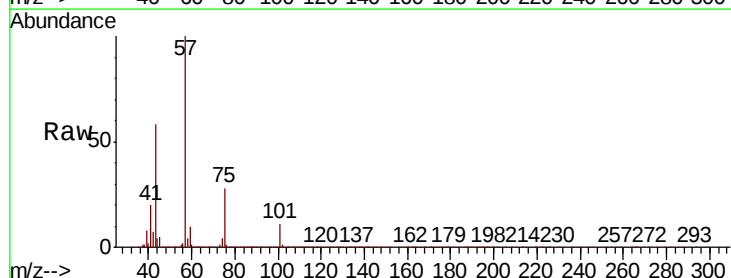
Instrument :
MSVOA_X
ClientSampleId :

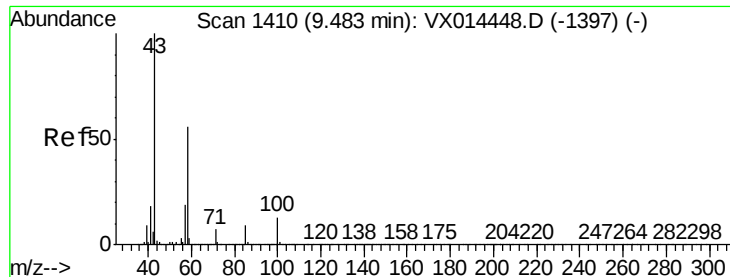
Tot Ion: 43 Resp: 120673
Ion Ratio Lower Upper
43 100
58 9.2 32.4 48.6#



#54
cis-1,3-Dichloropropene
Concen: 6.012 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. 0.18 min
Lab File: VX014473.D
Acq: 08 Jan 2020 15:58

Tgt Ion: 75 Resp: 55825
Ion Ratio Lower Upper
75 100
77 1.0 25.0 37.4#
39 28.0 40.7 61.1#

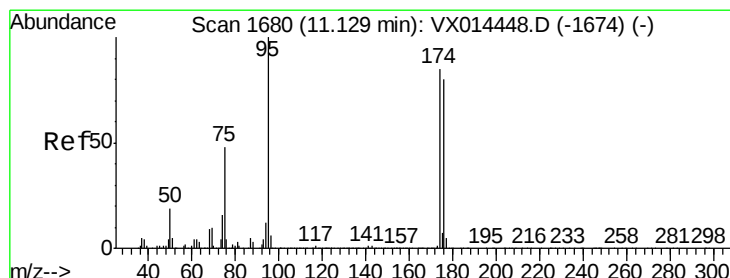
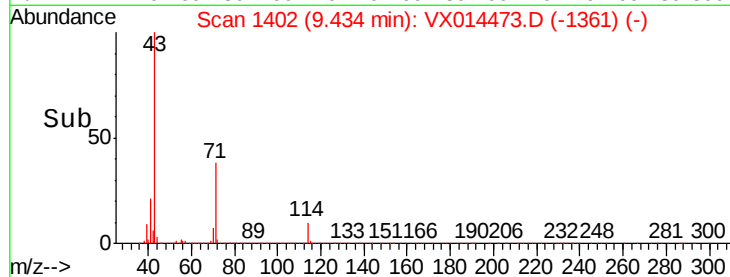
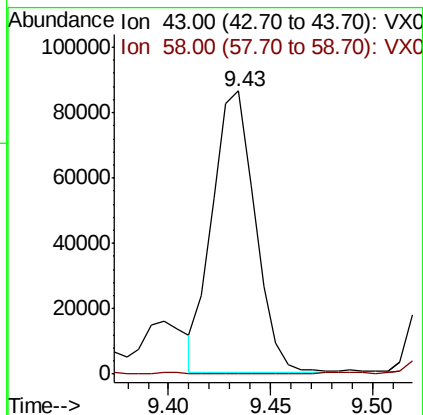
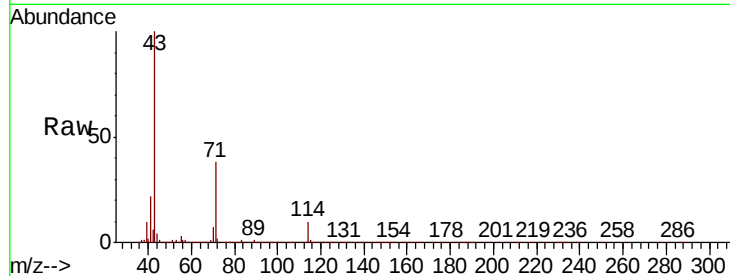




#59
2-Hexanone
Concen: 19.349 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX014473.D
Acq: 08 Jan 2020 15:58

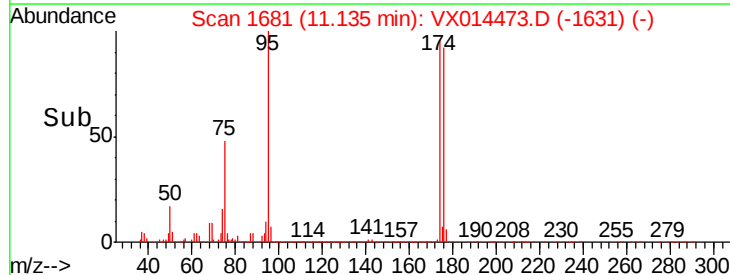
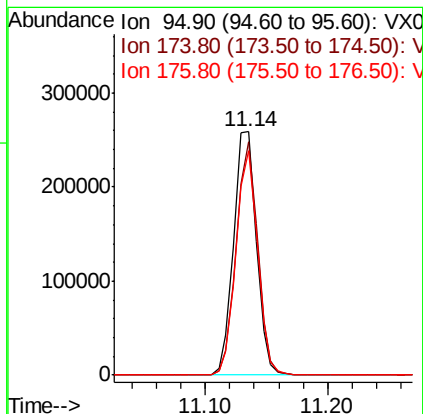
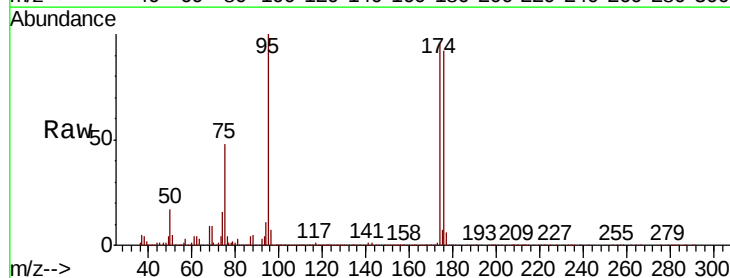
Instrument :
MSVOA_X
ClientSampleId :

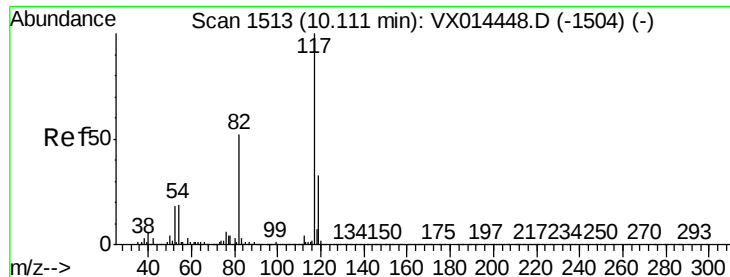
Tot Ion: 43 Resp: 125781
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 47.226 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014473.D
Acq: 08 Jan 2020 15:58

Tgt Ion: 95 Resp: 332759
Ion Ratio Lower Upper
95 100
174 90.3 0.0 180.8
176 87.8 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: VX014473.D

Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

ClientSampleId :

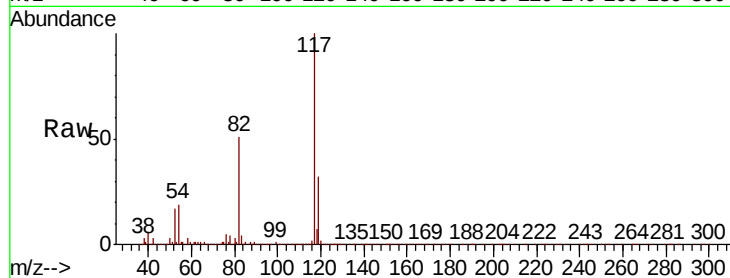
Tot Ion:117 Resp: 742515

Ion Ratio Lower Upper

117 100

82 51.2 41.8 62.6

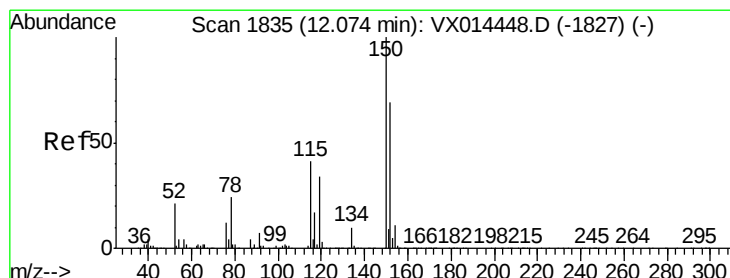
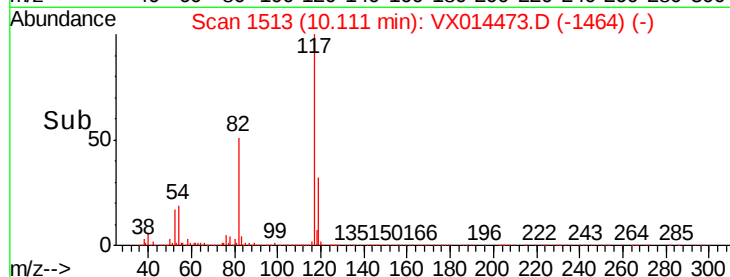
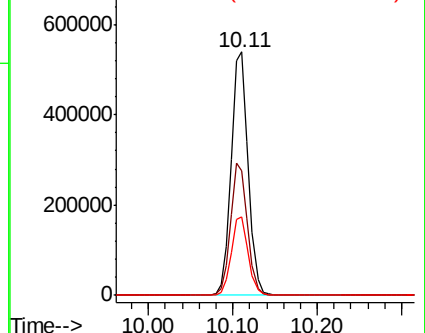
119 32.1 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

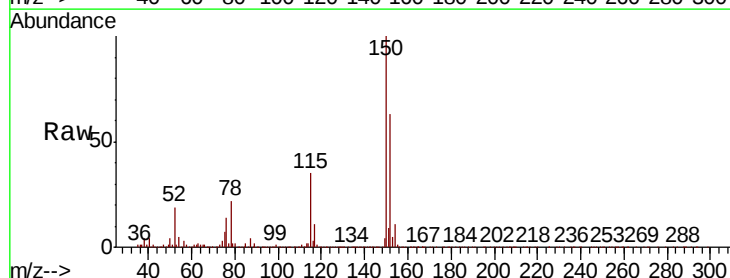
Tgt Ion:152 Resp: 341887

Ion Ratio Lower Upper

152 100

115 55.4 39.5 118.3

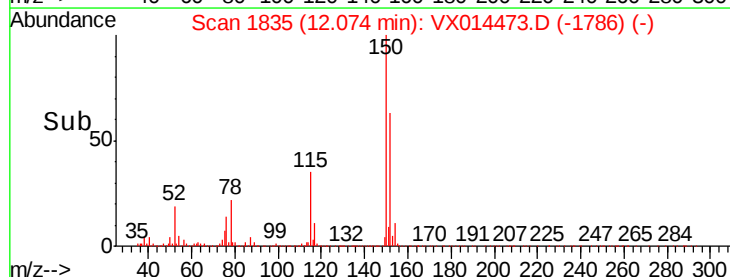
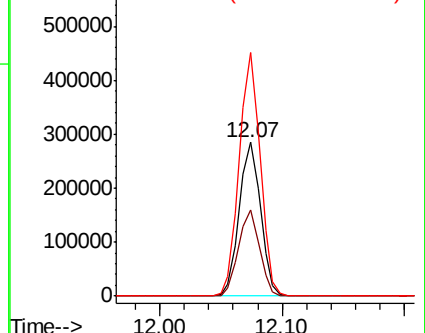
150 156.1 0.0 350.2

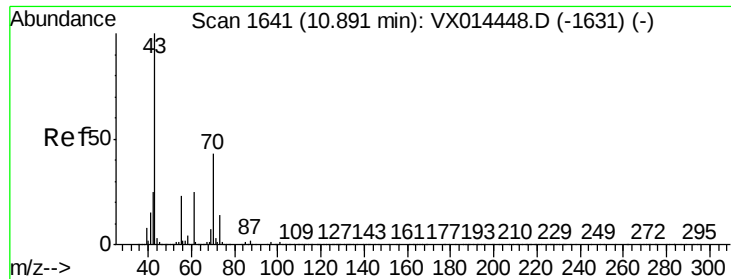


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.528 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014473.D

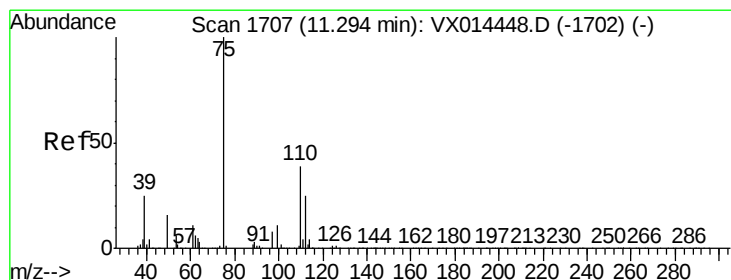
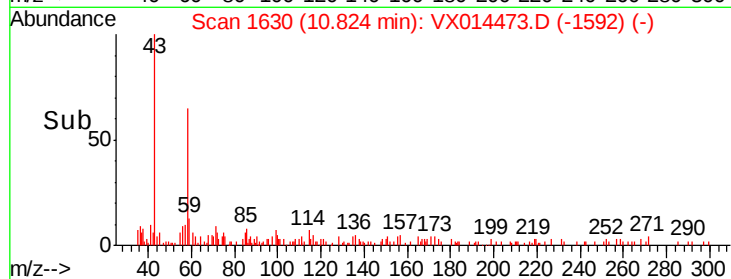
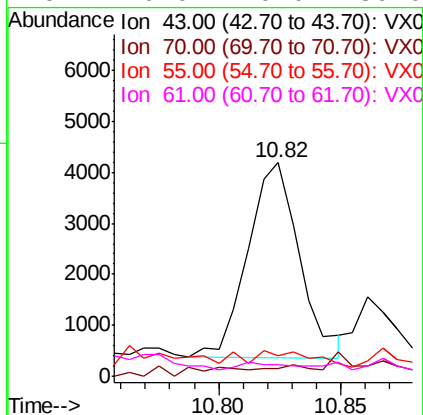
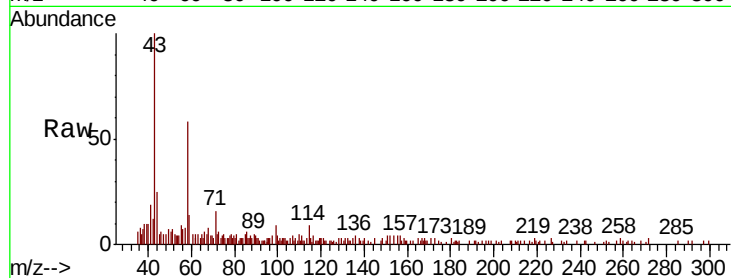
Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	43	Resp:	5597
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.1	52.7#
55	9.4	19.3	28.9#
61	0.0	20.0	30.0#



#76

1,2,3-Trichloropropane

Concen: 22.901 ug/l

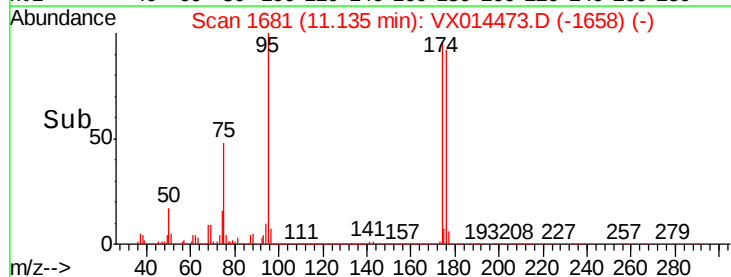
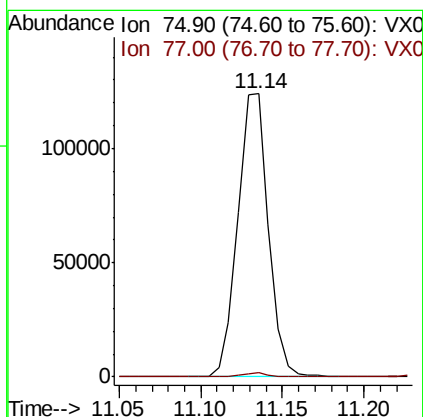
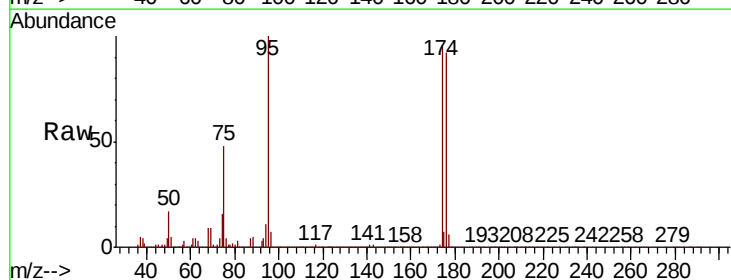
RT: 11.14 min Scan# 1681

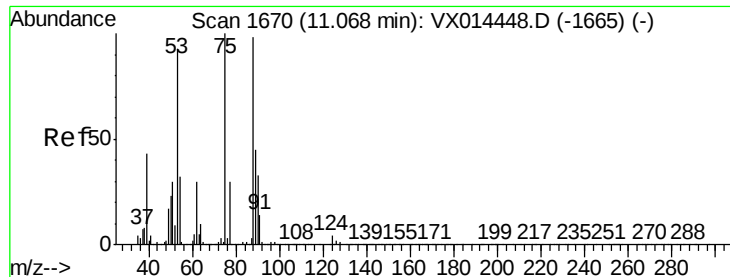
Delta R.T. -0.16 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

Tgt Ion:	75	Resp:	161995
Ion	Ratio	Lower	Upper
75	100		
77	1.3	21.9	65.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.546 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

Instrument :

MSVOA_X

ClientSampleId :

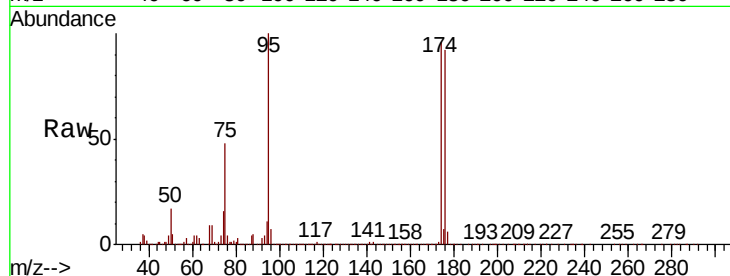
Tot Ion: 75 Resp: 161995

Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

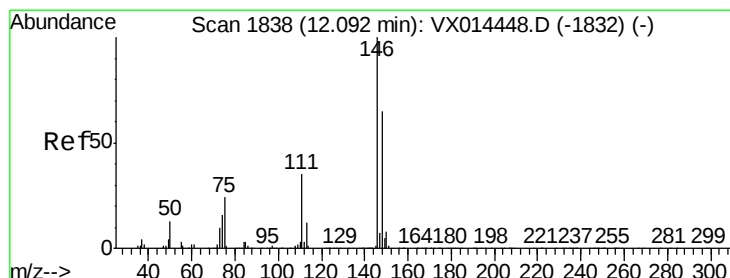
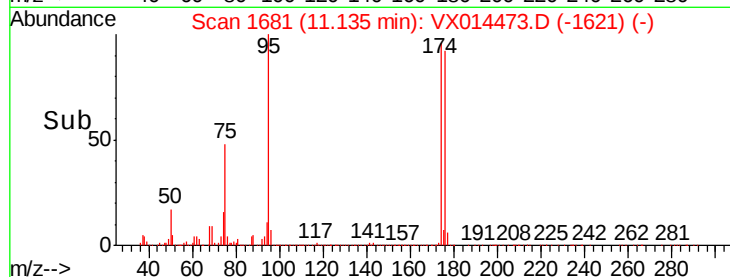
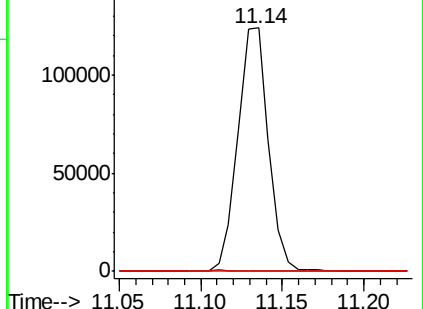
89 0.1 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.08 min Scan# 1836

Delta R.T. -0.01 min

Lab File: VX014473.D

Acq: 08 Jan 2020 15:58

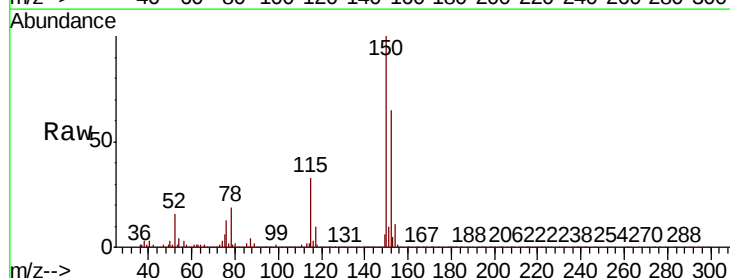
Tgt Ion: 146 Resp: 1068

Ion Ratio Lower Upper

146 100

111 396.3 18.1 54.1#

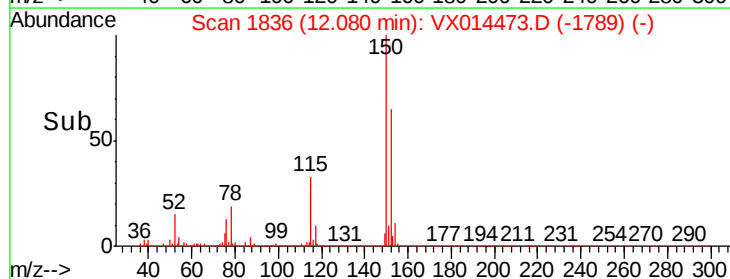
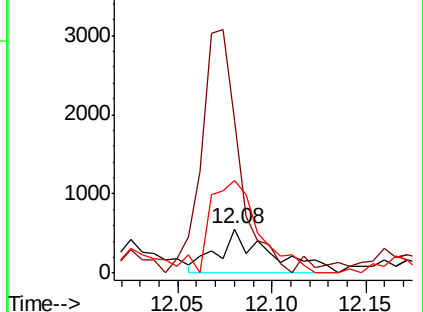
148 200.0 32.1 96.3#

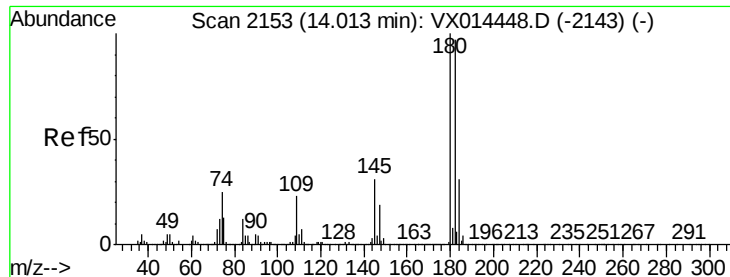


Abundance Ion 145.90 (145.60 to 146.60): V

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: 13.81 min Scan# 2120
 Delta R.T. -0.20 min
 Lab File: VX014473.D
 Acq: 08 Jan 2020 15:58

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	60.5	47.9	143.6
145	35.2	14.8	44.3

