

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010920\
 Data File : VX014511.D
 Acq On : 09 Jan 2020 20:53
 Operator : JC/SP
 Sample : L1060-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-2

Quant Time: Jan 10 06:51:57 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	508868	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	786069	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	703789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	303374	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	282262	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
35) Dibromofluoromethane	5.49	113	234090	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
50) Toluene-d8	8.71	98	945727	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.13	95	312310	46.07	ug/l	0.00
Spiked Amount			Recovery	=	92.14%	

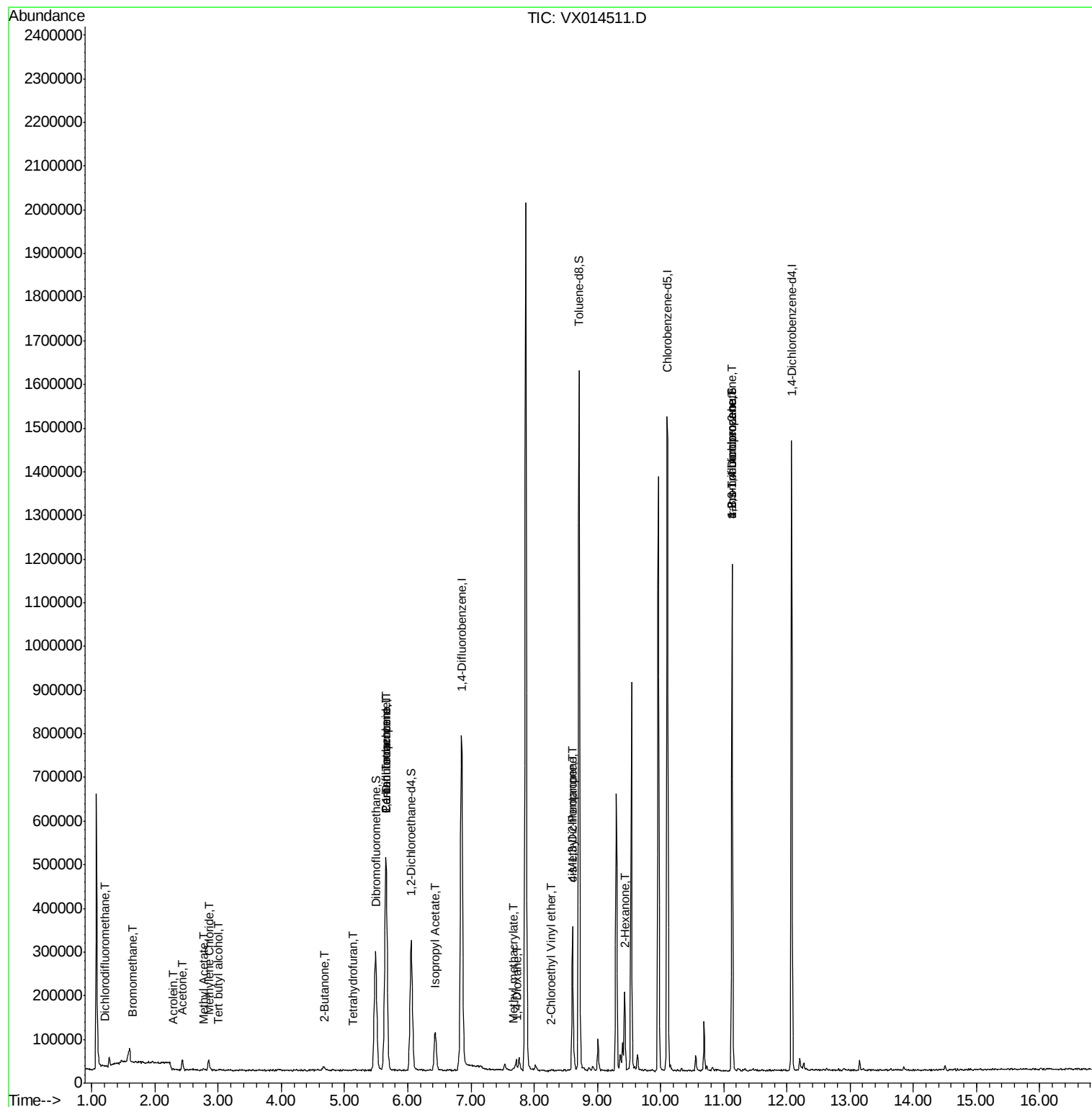
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	523	0.335	ug/l #	42
5) Bromomethane	1.65	94	1230	0.257	ug/l #	73
6) Chloroethane	1.72	64	503	Below Cal		93
11) Tert butyl alcohol	3.01	59	1220	1.029	ug/l #	59
13) Acrolein	2.29	56	223	0.235	ug/l #	1
16) Acetone	2.43	43	29249	6.194	ug/l	93
18) Methyl Acetate	2.76	43	6963	0.853	ug/l	91
20) Methylene Chloride	2.85	84	11020	1.928	ug/l	93
25) 2-Butanone	4.67	43	8407	1.981	ug/l	98
29) Tetrahydrofuran	5.12	42	654	0.261	ug/l #	86
36) 1,1-Dichloropropene	5.65	75	33549	4.538	ug/l #	51
38) Carbon Tetrachloride	5.66	117	44661	6.565	ug/l #	18
43) Isopropyl Acetate	6.44	43	124102	9.568	ug/l	97
48) Methyl methacrylate	7.67	41	7015	1.129	ug/l #	21
49) 1,4-Dioxane	7.73	88	163	1.238	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	117169	14.824	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	53202	5.955	ug/l #	58
58) 2-Chloroethyl Vinyl ether	8.26	63	698	0.237	ug/l	93
59) 2-Hexanone	9.43	43	138228	22.102	ug/l #	23
76) 1,2,3-Trichloropropane	11.13	75	150917	24.043	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	150917	63.566	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	479	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	13.65	180	477	Below Cal	#	88
96) 1,2,3-Trichlorobenzene	14.01	180	447	Below Cal		81

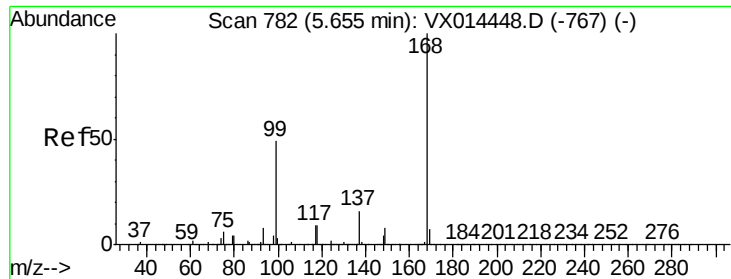
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010920\
Data File : VX014511.D
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Quant Time: Jan 10 06:51:57 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: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

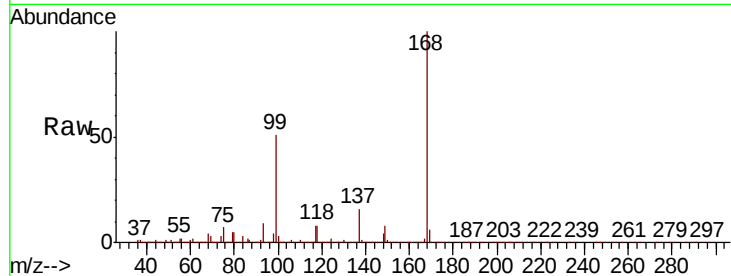
TP-2

Tot Ion:168 Resp: 508868

Ion Ratio Lower Upper

168 100

99 51.3 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

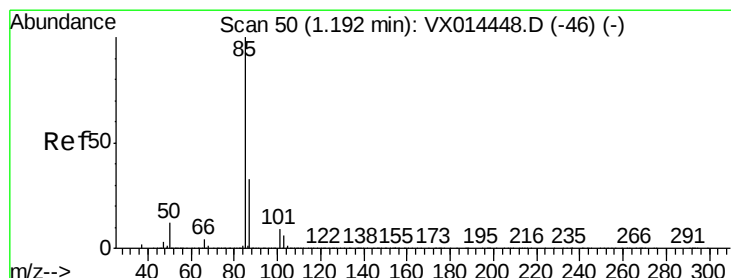
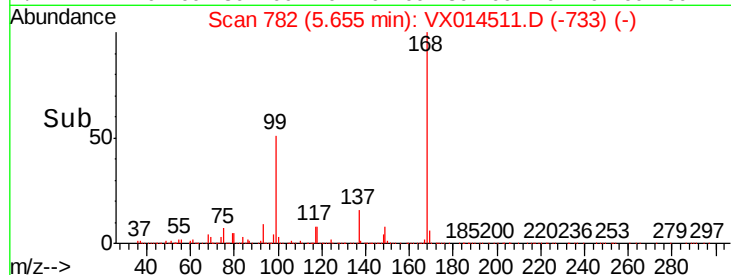
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.335 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014511.D

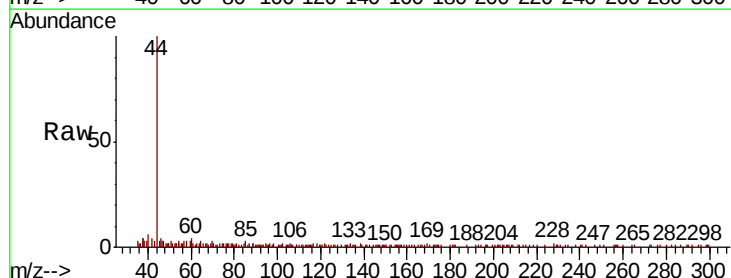
Acq: 09 Jan 2020 20:53

Tgt Ion: 85 Resp: 523

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

500

400

300

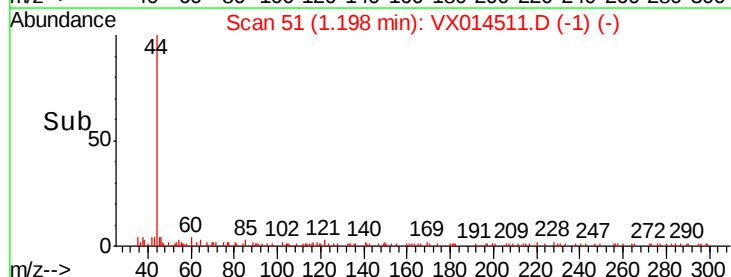
200

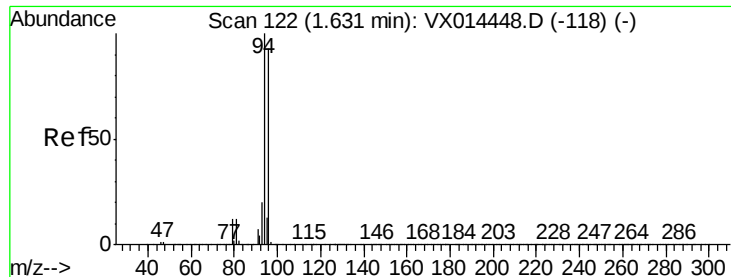
100

0

Time-->

1.16 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: 0.257 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampled :

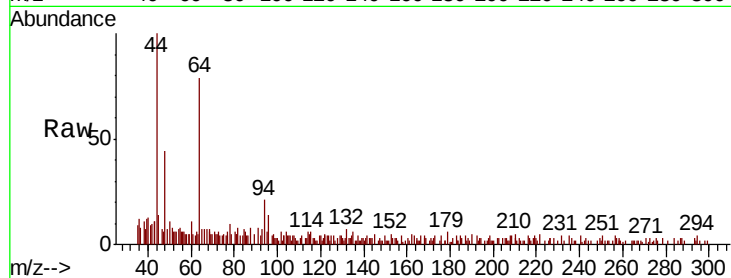
TP-2

Tot Ion: 94 Resp: 1230

Ion Ratio Lower Upper

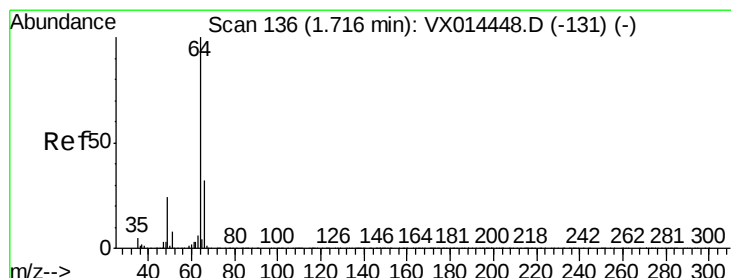
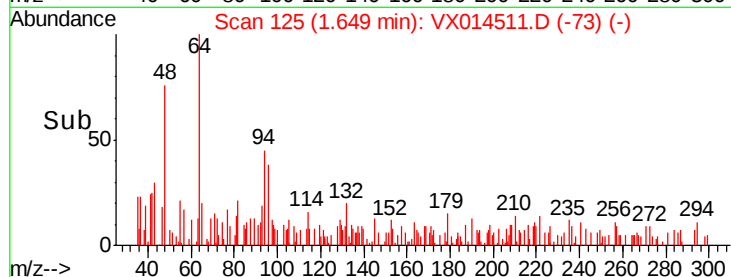
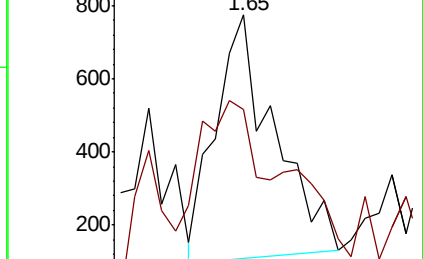
94 100

96 66.9 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.00 min

Lab File: VX014511.D

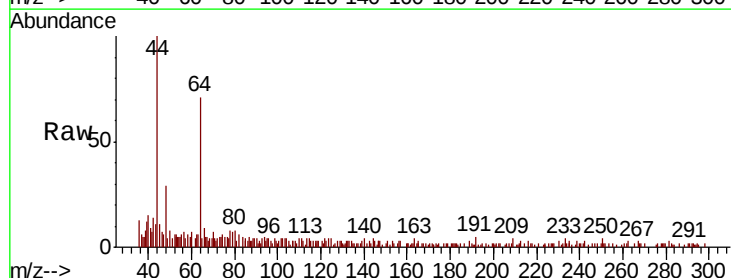
Acq: 09 Jan 2020 20:53

Tgt Ion: 64 Resp: 503

Ion Ratio Lower Upper

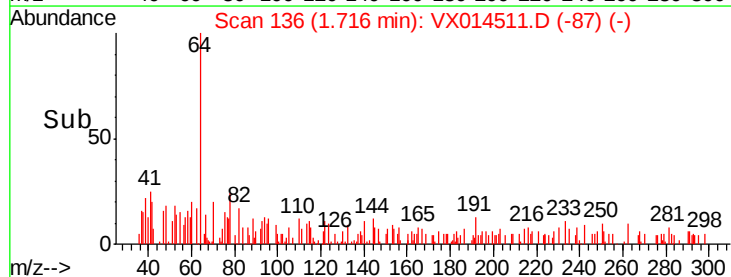
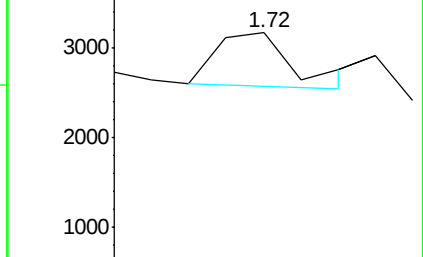
64 100

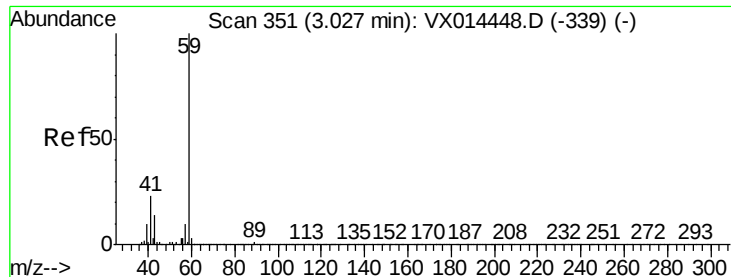
66 27.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



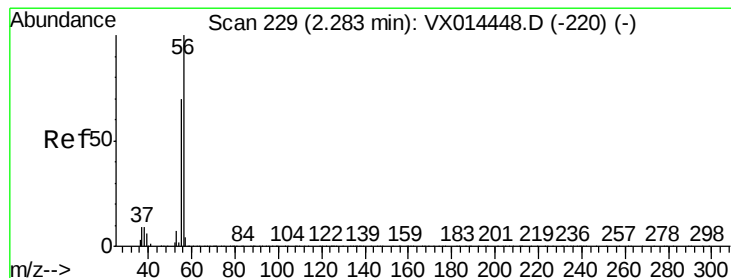
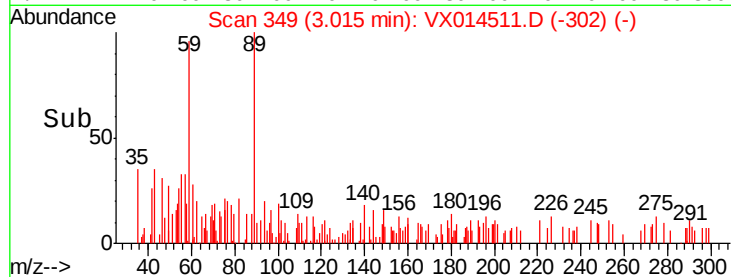
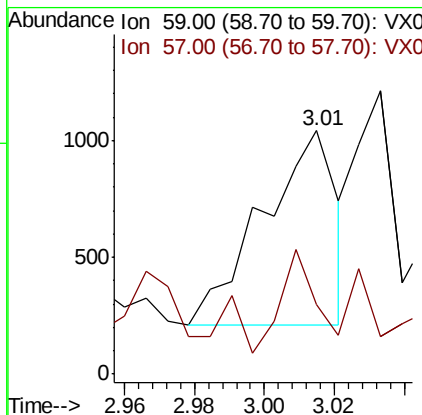
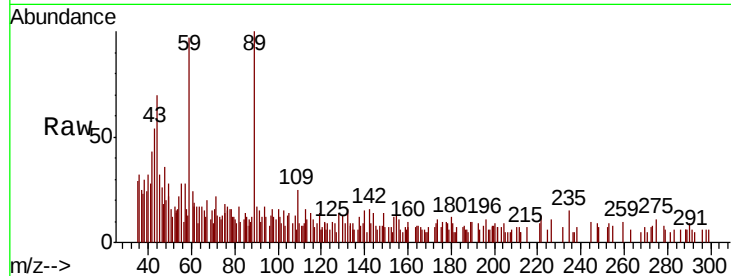


#11

Tert butyl alcohol
Concen: 1.029 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.01 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

Instrument :
MSVOA_X
ClientSampled :
TP-2

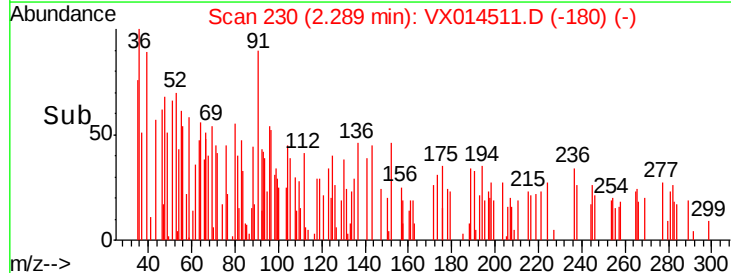
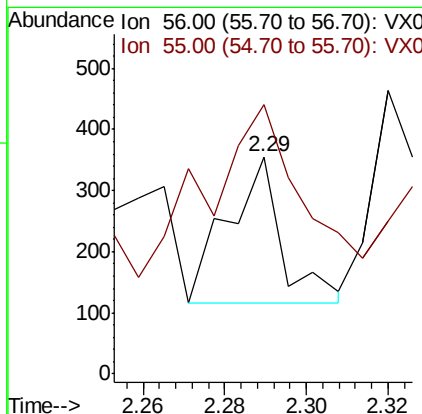
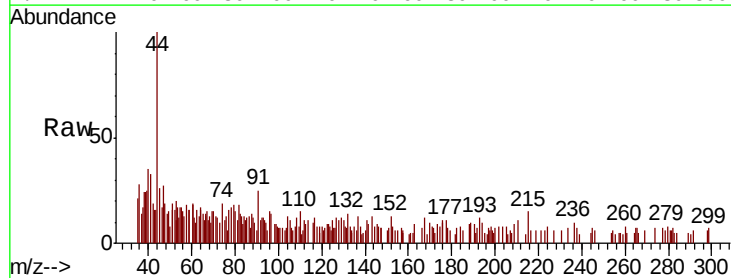
Tot Ion: 59 Resp: 1220
Ion Ratio Lower Upper
59 100
57 26.0 8.5 12.7#

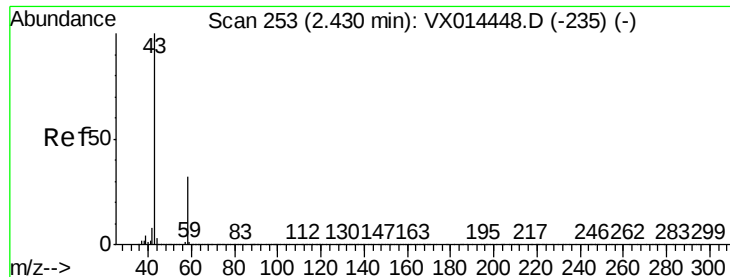


#13

Acrolein
Concen: 0.235 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 198.2 55.0 82.6#





#16

Acetone

Concen: 6.194 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

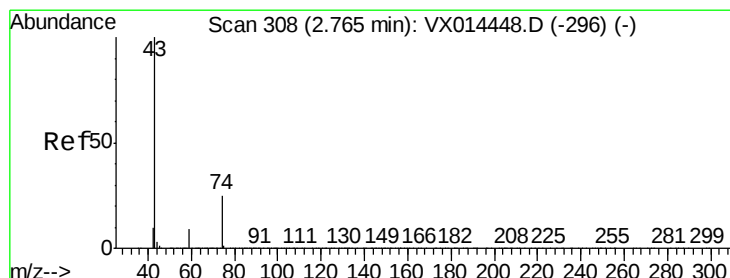
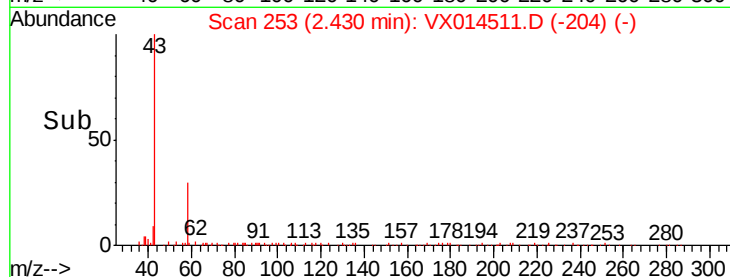
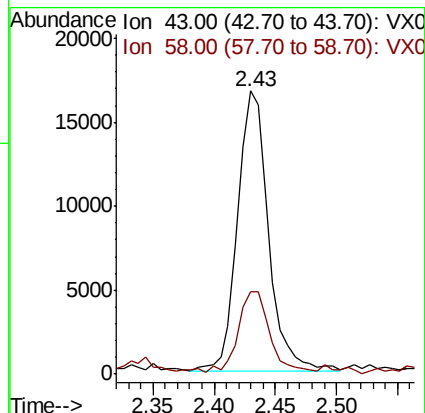
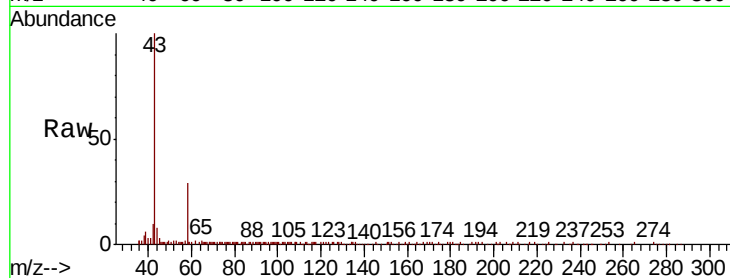
TP-2

Tot Ion: 43 Resp: 29249

Ion Ratio Lower Upper

43 100

58 27.9 25.4 38.0



#18

Methyl Acetate

Concen: 0.853 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014511.D

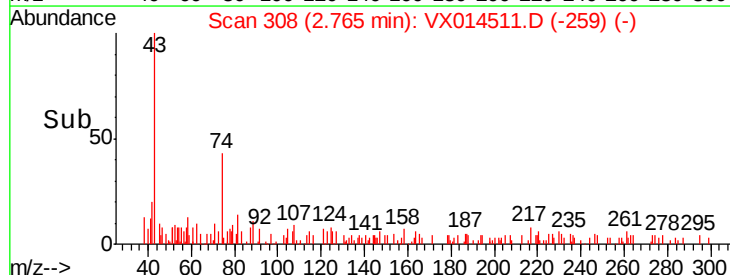
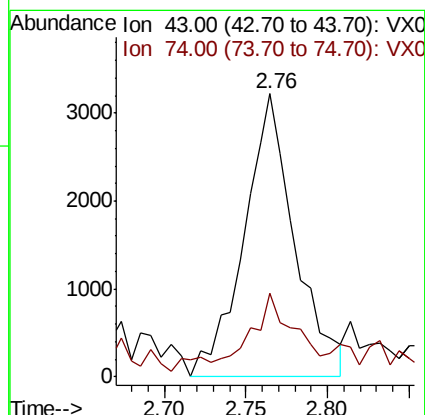
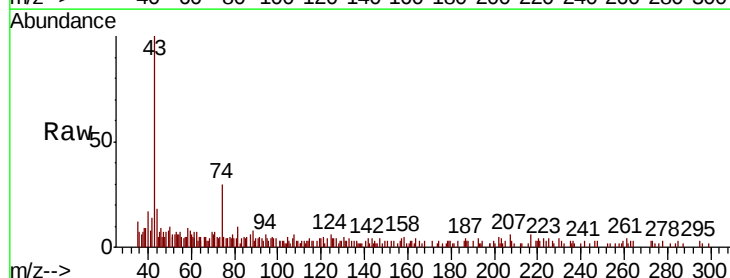
Acq: 09 Jan 2020 20:53

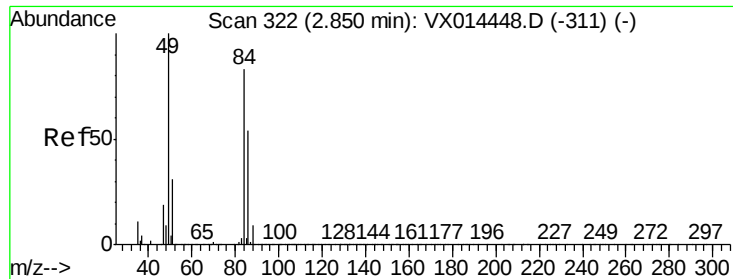
Tgt Ion: 43 Resp: 6963

Ion Ratio Lower Upper

43 100

74 19.7 19.4 29.2

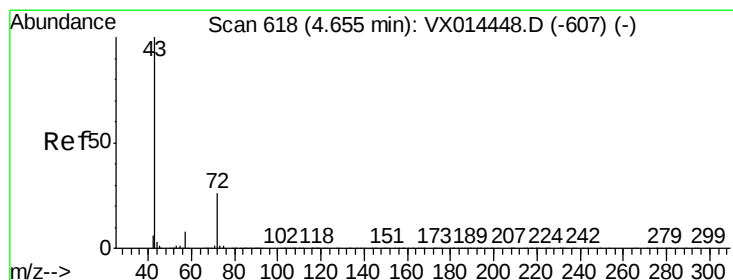
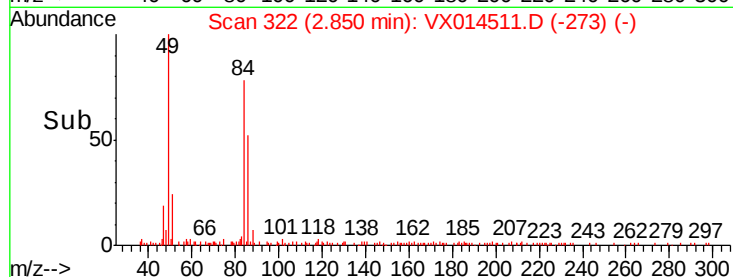
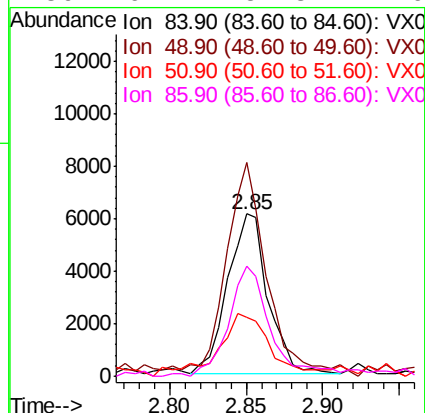
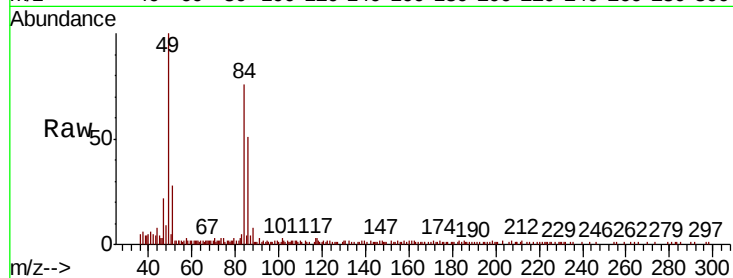




#20
Methvlene Chloride
Concen: 1.928 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

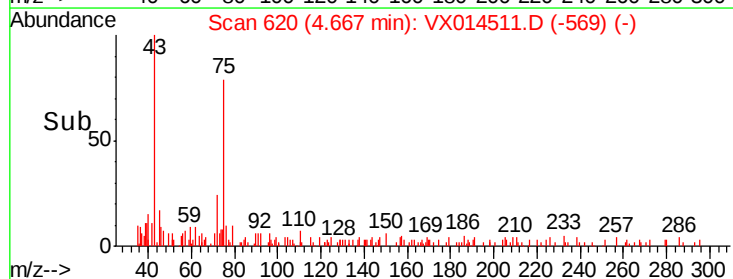
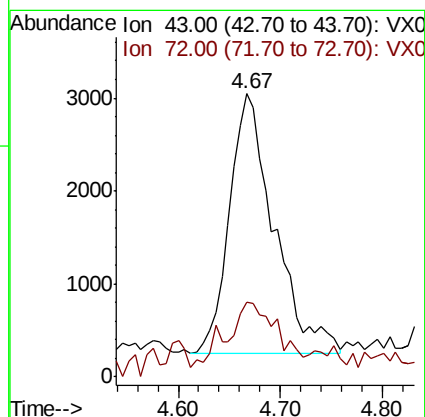
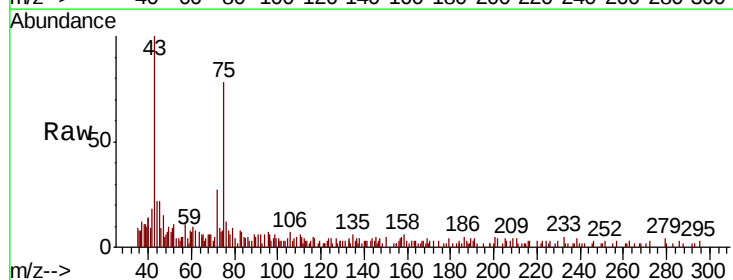
Instrument :
MSVOA_X
ClientSampleId :
TP-2

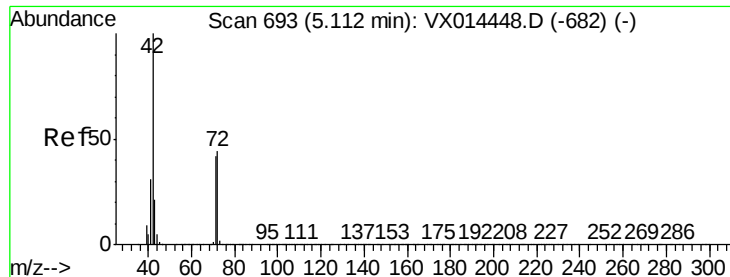
Tot Ion:	84	Resp:	11020
Ion	Ratio	Lower	Upper
84	100		
49	127.3	95.8	143.8
51	30.6	30.2	45.4
86	67.7	51.8	77.6



#25
2-Butanone
Concen: 1.981 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

Tgt Ion:	43	Resp:	8407
Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.6	31.0





#29

Tetrahydrofuran

Concen: 0.261 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampled :

TP-2

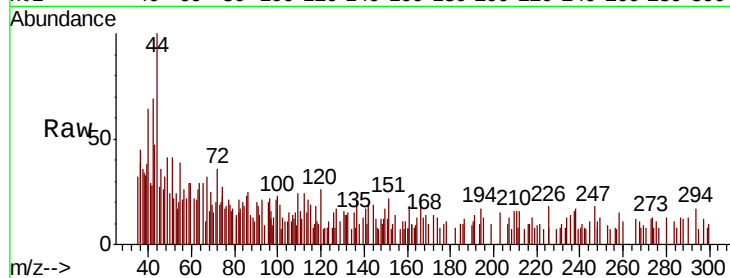
Tot Ion: 42 Resp: 654

Ion Ratio Lower Upper

42 100

72 32.7 36.2 54.4#

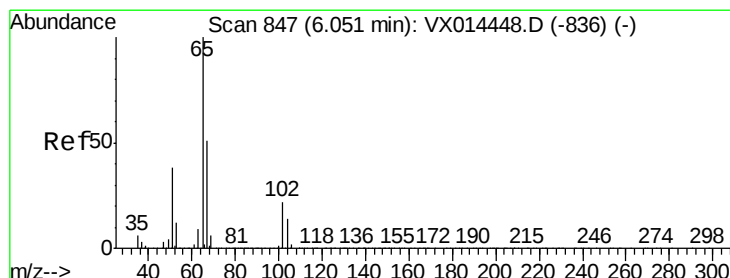
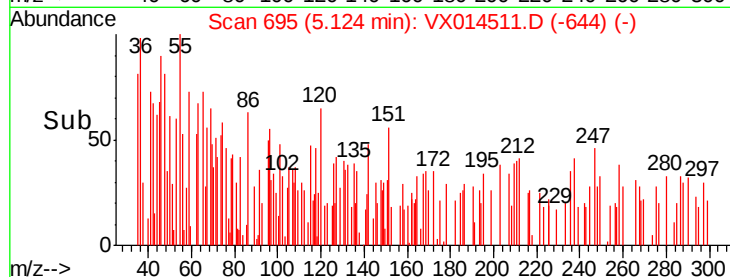
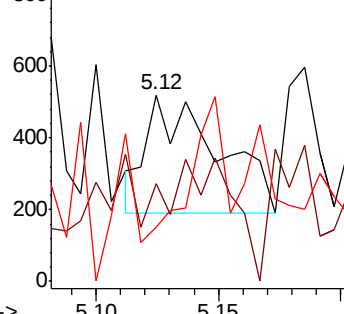
71 47.7 34.1 51.1



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.688 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014511.D

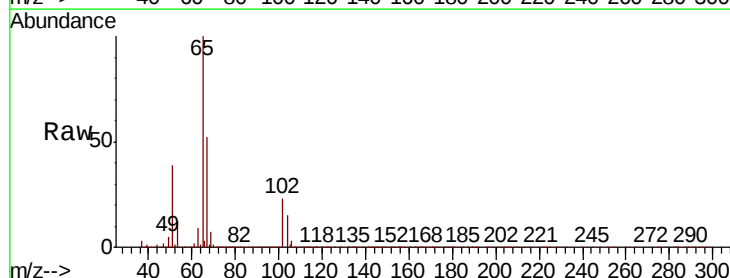
Acq: 09 Jan 2020 20:53

Tgt Ion: 65 Resp: 282262

Ion Ratio Lower Upper

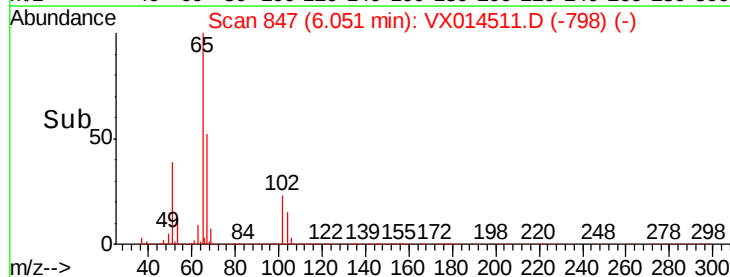
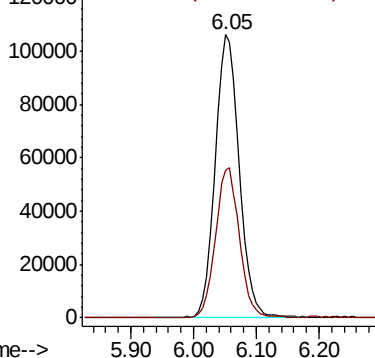
65 100

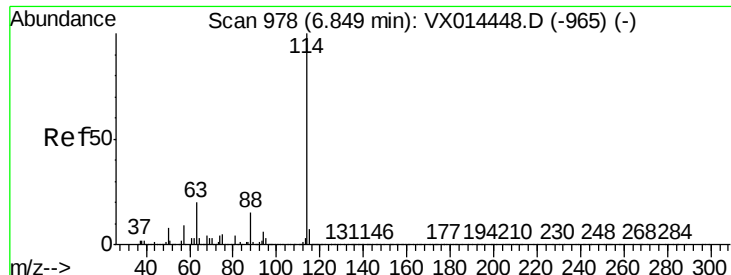
67 52.3 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2

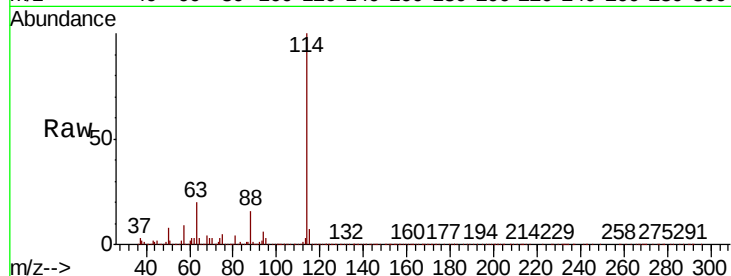
Tot Ion:114 Resp: 786069

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

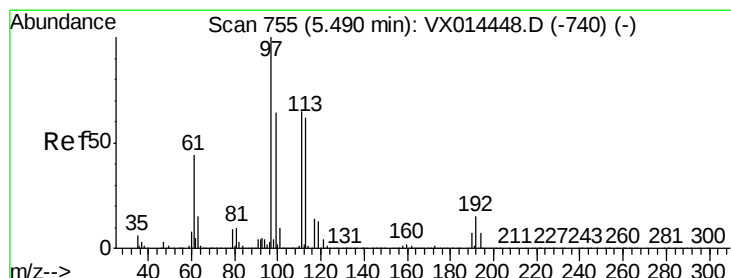
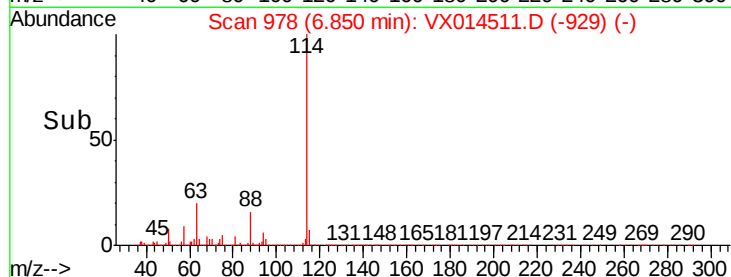
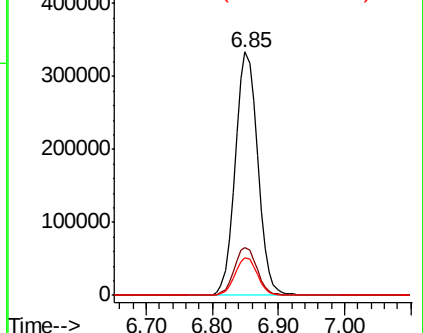
88 15.6 0.0 30.8



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: 49.195 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

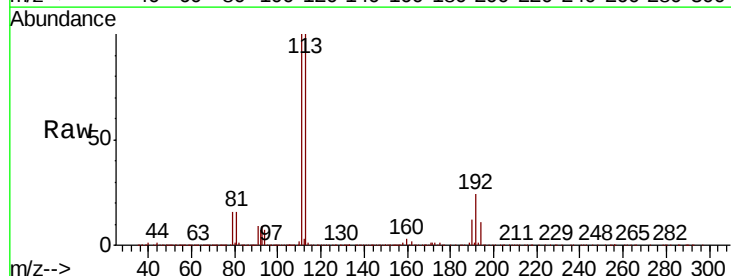
Tgt Ion:113 Resp: 234090

Ion Ratio Lower Upper

113 100

111 100.9 81.5 122.3

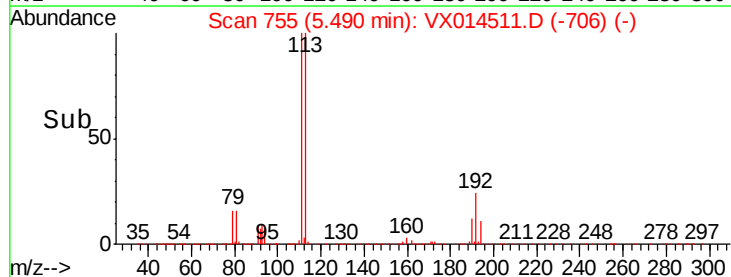
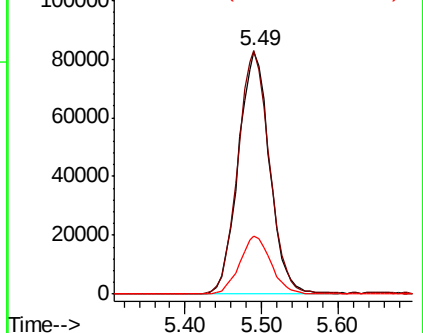
192 23.9 19.2 28.8

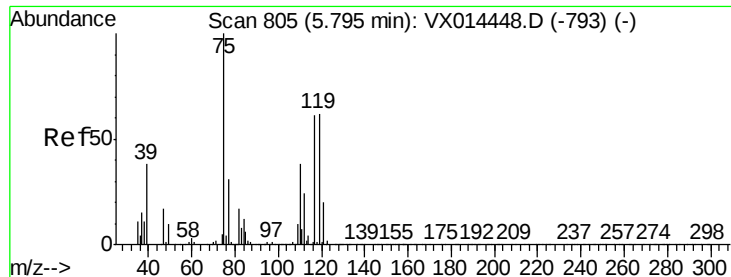


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

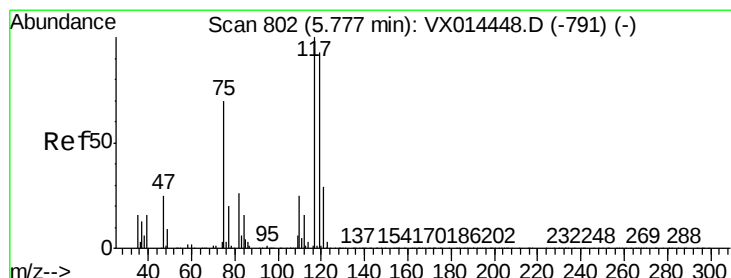
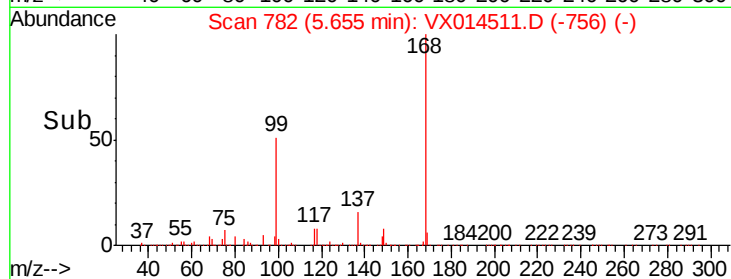
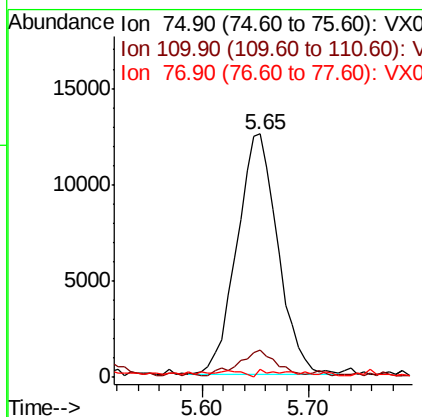
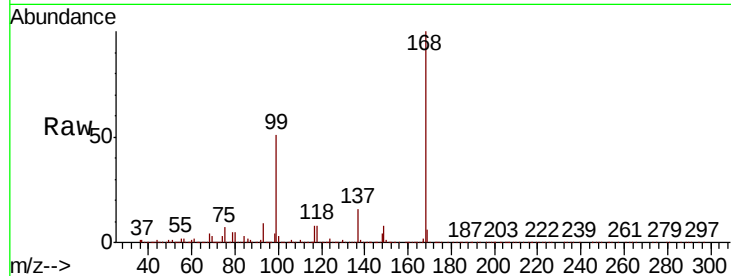




#36
 1,1-Dichloropropene
 Concen: 4.538 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014511.D
 Acq: 09 Jan 2020 20:53

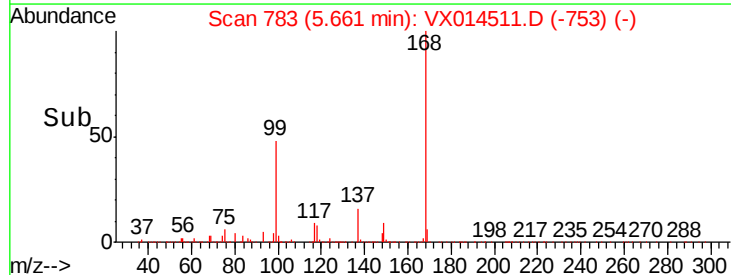
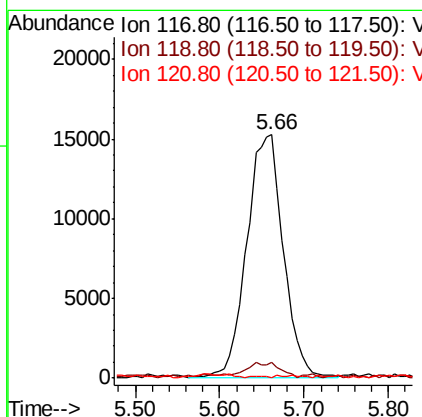
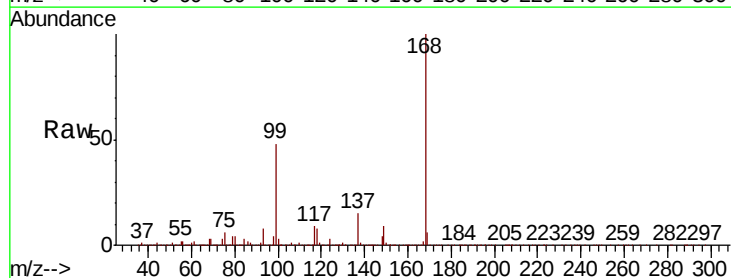
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-2

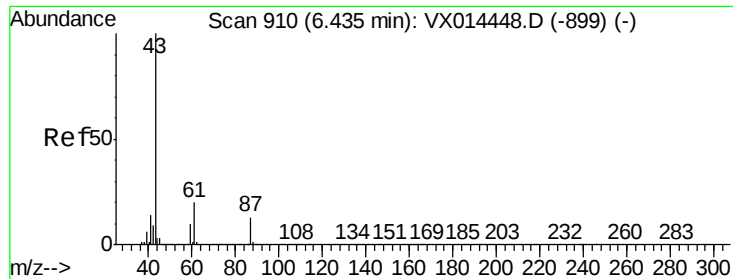
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.6	55.8#
77	1.3	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.565 ug/l
 RT: 5.66 min Scan# 783
 Delta R.T. -0.12 min
 Lab File: VX014511.D
 Acq: 09 Jan 2020 20:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	73.8	110.8#
121	0.0	23.4	35.0#



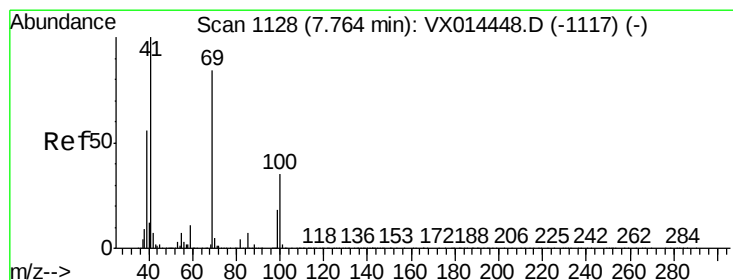
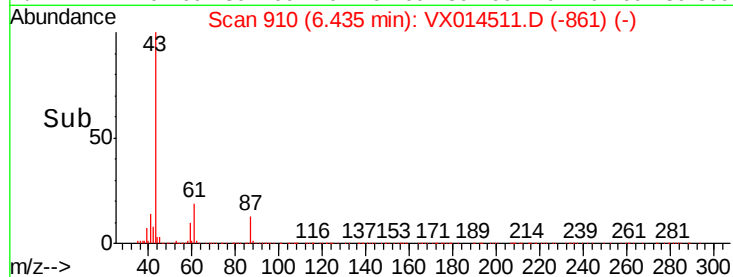
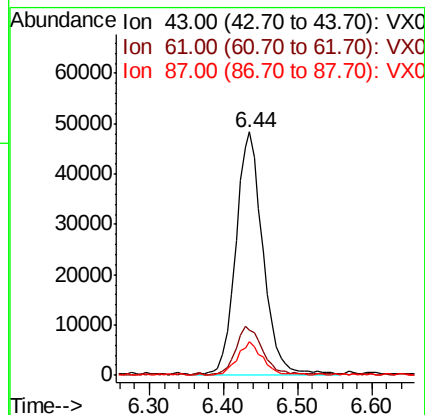
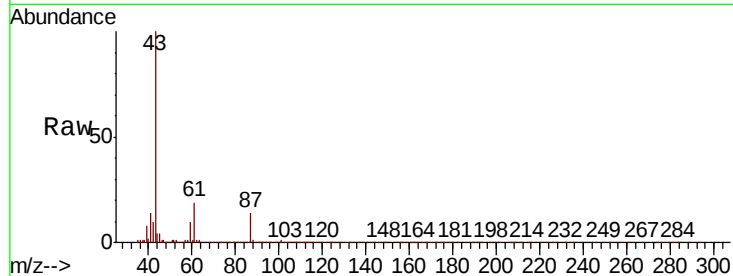


#43

Isopropyl Acetate
 Concen: 9.568 ug/l
 RT: 6.44 min Scan# 910
 Delta R.T. 0.00 min
 Lab File: VX014511.D
 Acq: 09 Jan 2020 20:53

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-2

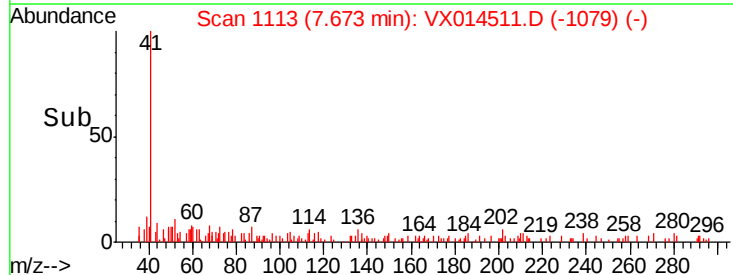
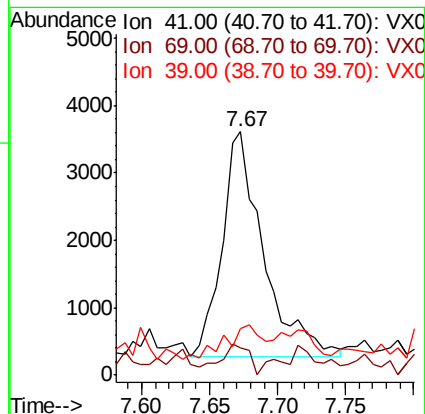
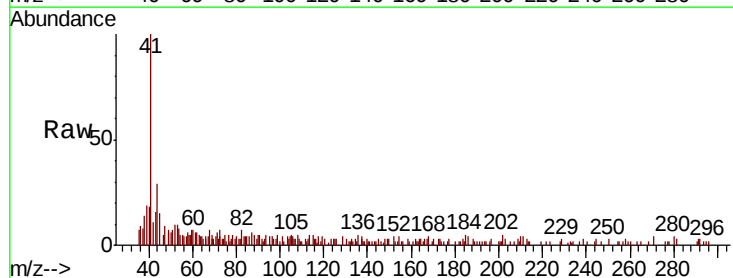
Tot Ion	43	Resp	124102
Ion Ratio	Lower	Upper	
43	100		
61	19.4	16.6	24.8
87	12.7	10.8	16.2

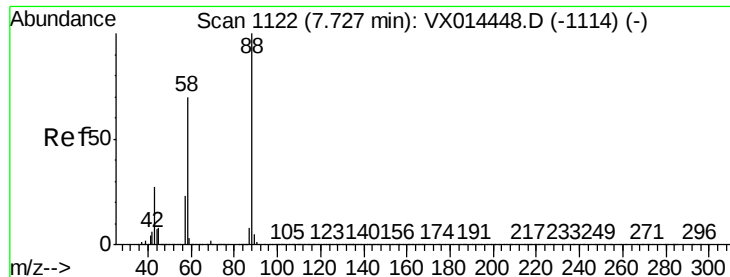


#48

Methyl methacrylate
 Concen: 1.129 ug/l
 RT: 7.67 min Scan# 1113
 Delta R.T. -0.09 min
 Lab File: VX014511.D
 Acq: 09 Jan 2020 20:53

Tgt Ion	41	Resp	7015
Ion Ratio	Lower	Upper	
41	100		
69	9.5	65.5	98.3#
39	0.0	43.9	65.9#





#49

1,4-Dioxane

Concen: 1.238 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2

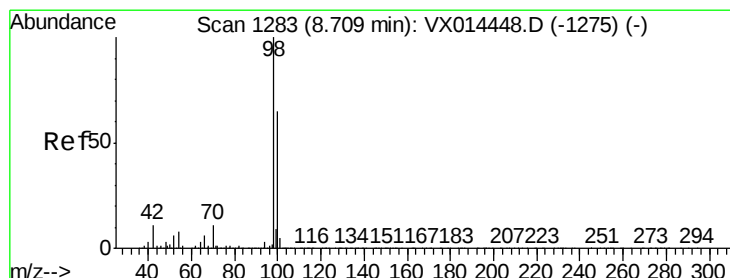
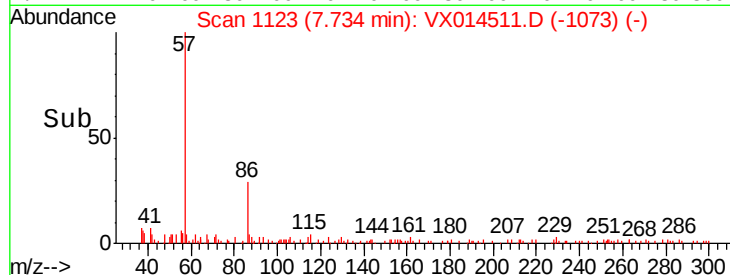
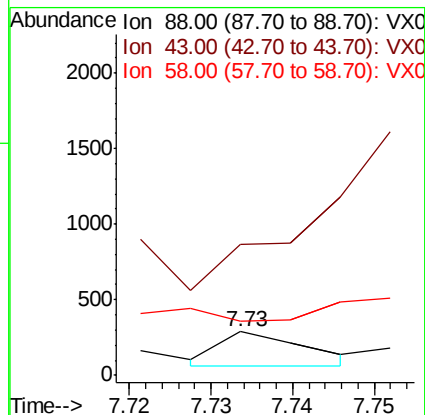
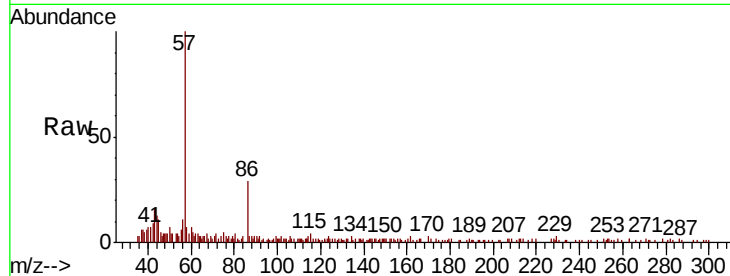
Tot Ion: 88 Resp: 163

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 0.0 57.1 85.7#



#50

Toluene-d8

Concen: 51.215 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014511.D

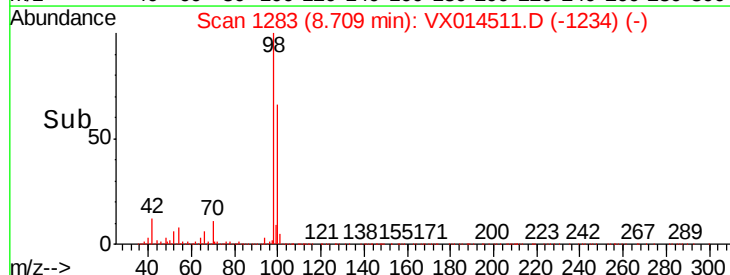
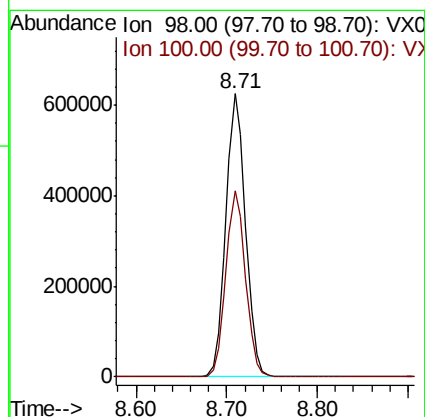
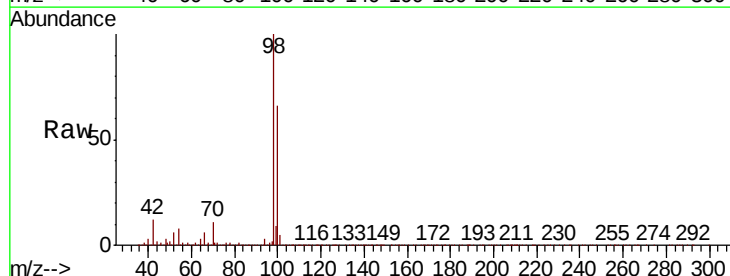
Acq: 09 Jan 2020 20:53

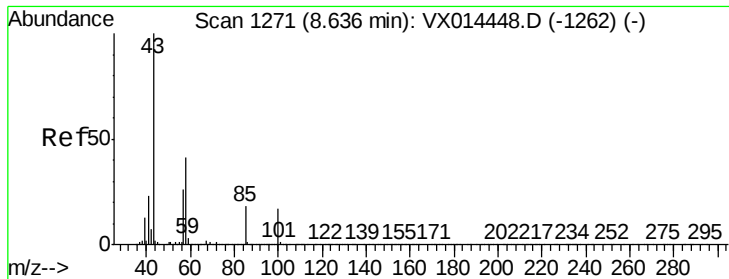
Tgt Ion: 98 Resp: 945727

Ion Ratio Lower Upper

98 100

100 65.6 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 14.824 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

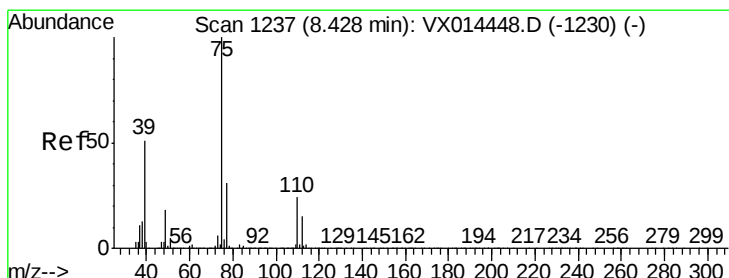
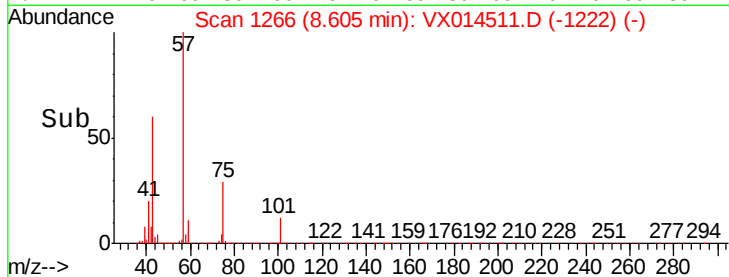
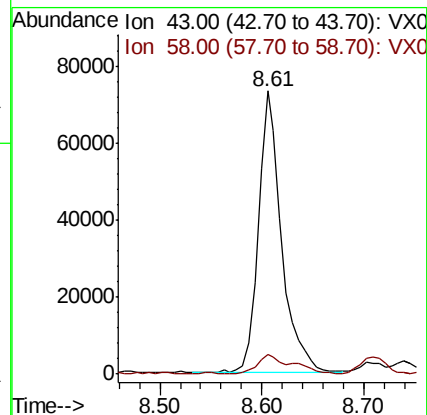
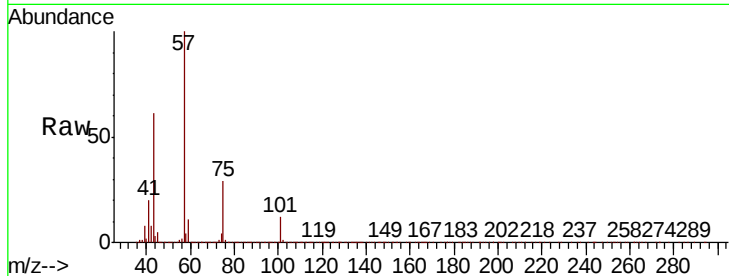
TP-2

Tot Ion: 43 Resp: 117169

Ion Ratio Lower Upper

43 100

58 6.4 32.4 48.6#



#54

cis-1,3-Dichloropropene

Concen: 5.955 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

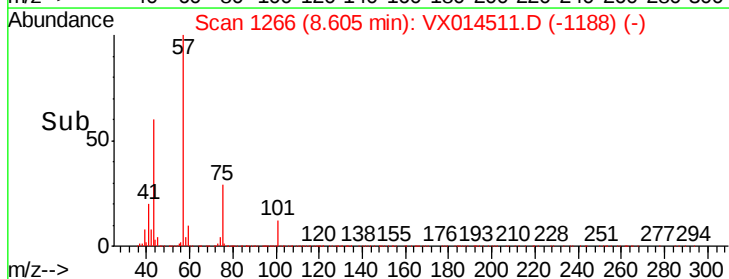
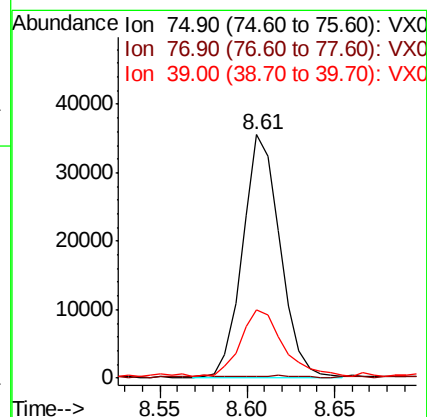
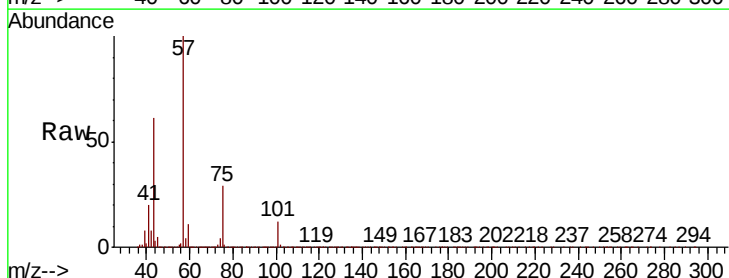
Tgt Ion: 75 Resp: 53202

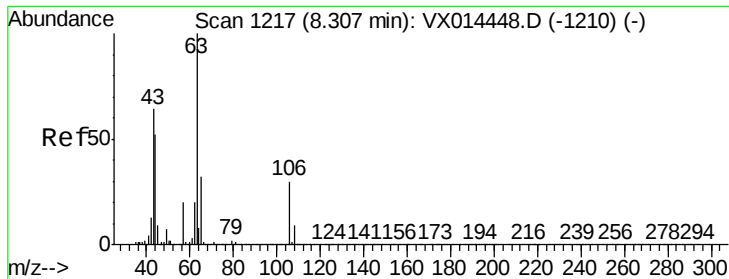
Ion Ratio Lower Upper

75 100

77 0.5 25.0 37.4#

39 27.3 40.7 61.1#

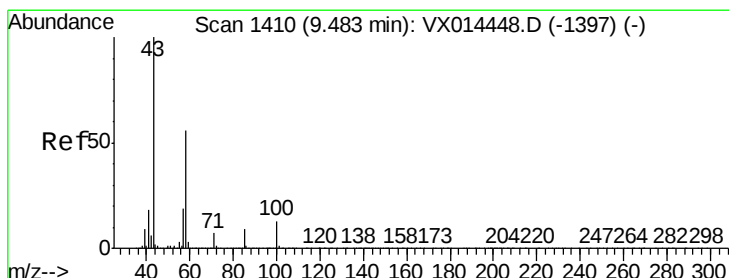
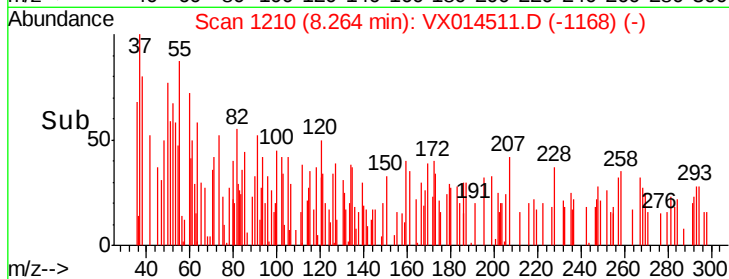
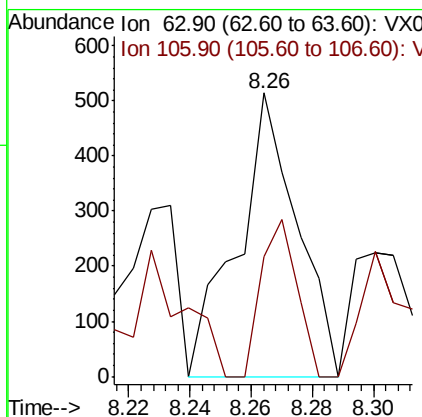
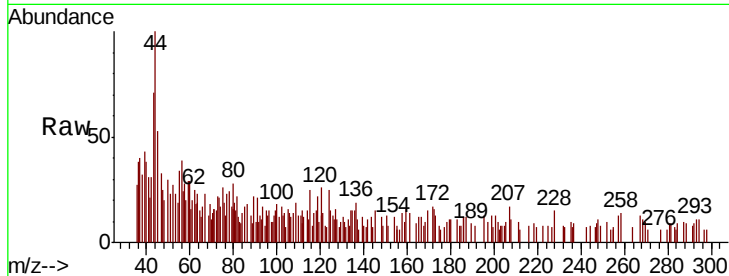




#58
2-Chloroethyl Vinyl ether
Concen: 0.237 ug/l
RT: 8.26 min Scan# 1210
Delta R.T. -0.04 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

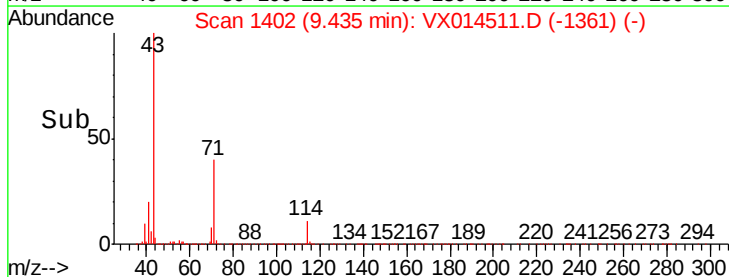
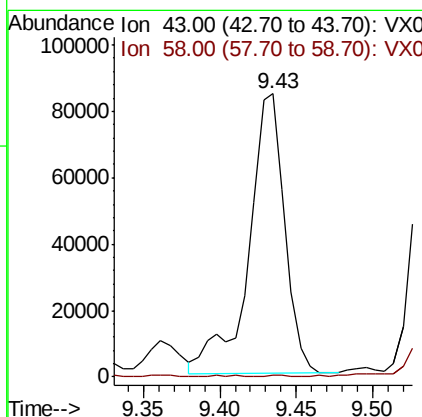
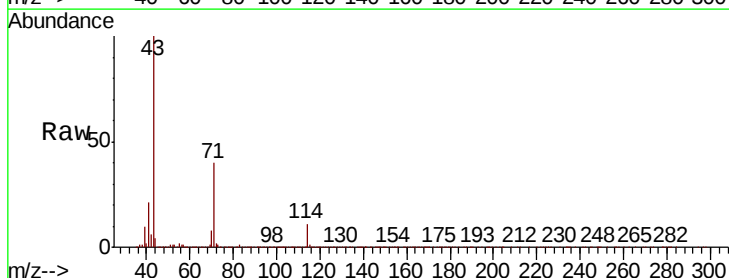
Instrument :
MSVOA_X
ClientSampled :
TP-2

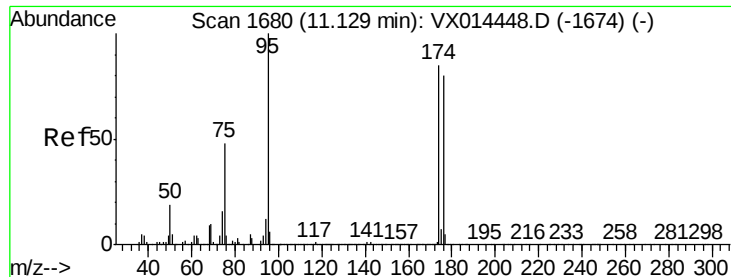
Tot Ion: 63 Resp: 698
Ion Ratio Lower Upper
63 100
106 33.2 23.6 35.4



#59
2-Hexanone
Concen: 22.102 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

Tgt Ion: 43 Resp: 138228
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#

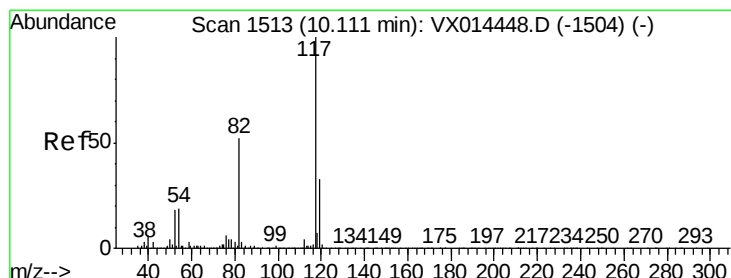
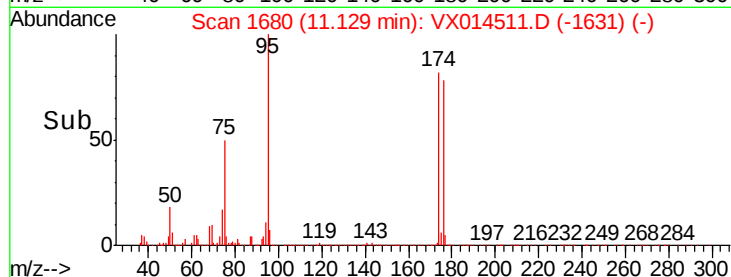
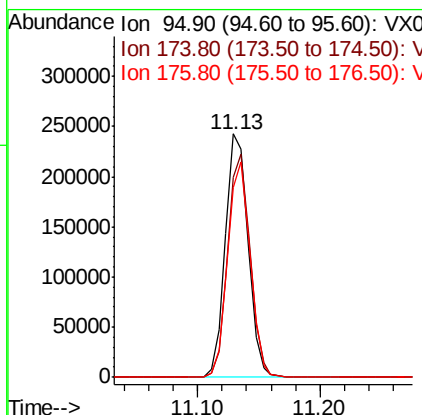
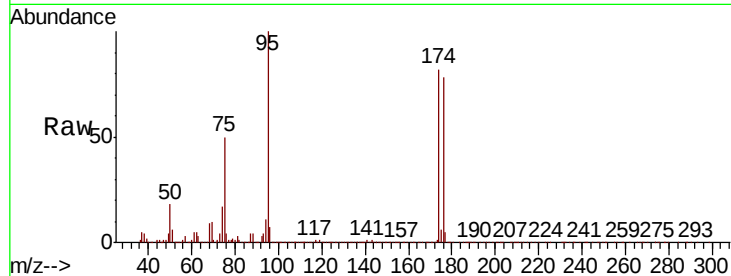




#62
4-Bromofluorobenzene
Concen: 46.070 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

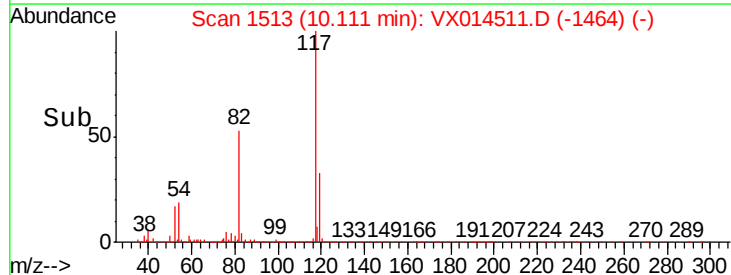
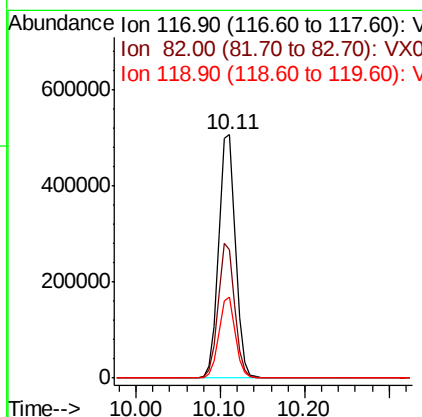
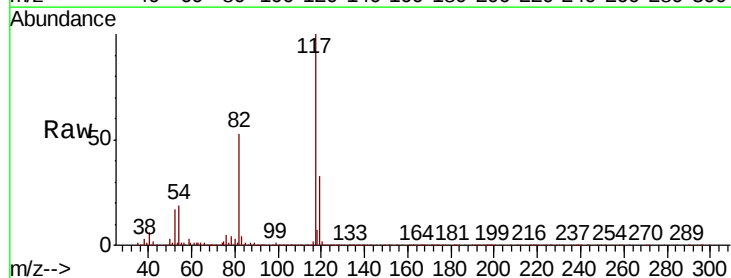
Instrument :
MSVOA_X
ClientSampled :
TP-2

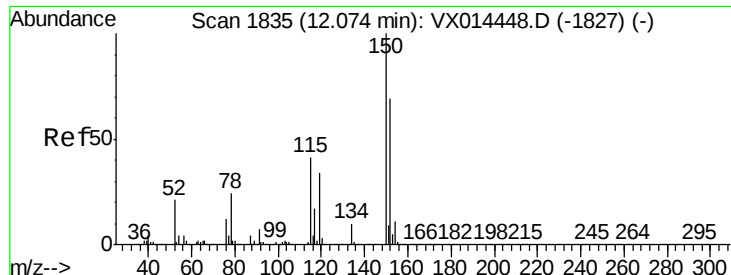
Tot Ion: 95 Resp: 312310
Ion Ratio Lower Upper
95 100
174 89.9 0.0 180.8
176 87.3 0.0 172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014511.D
Acq: 09 Jan 2020 20:53

Tgt Ion: 117 Resp: 703789
Ion Ratio Lower Upper
117 100
82 52.8 41.8 62.6
119 33.3 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: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampled :

TP-2

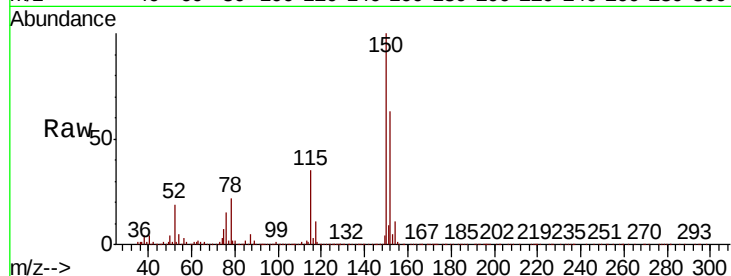
Tot Ion:152 Resp: 303374

Ion Ratio Lower Upper

152 100

115 56.2 39.5 118.3

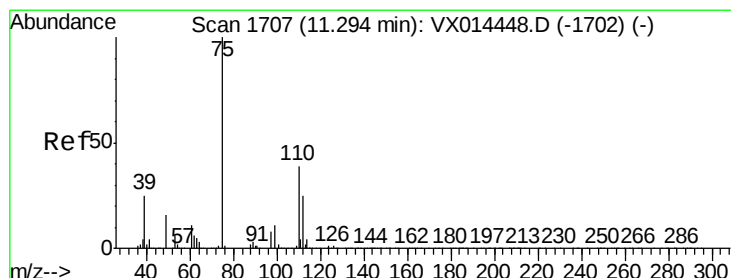
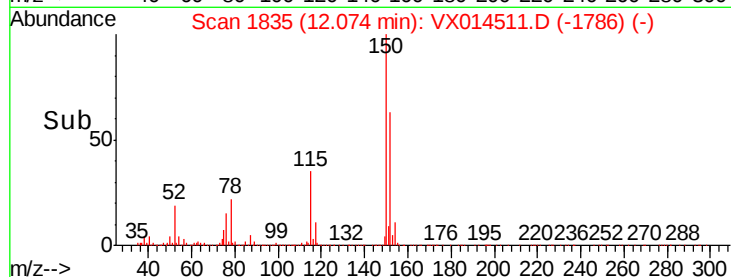
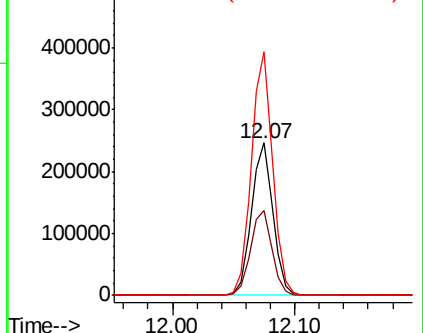
150 157.7 0.0 350.2



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



#76

1,2,3-Trichloropropane

Concen: 24.043 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014511.D

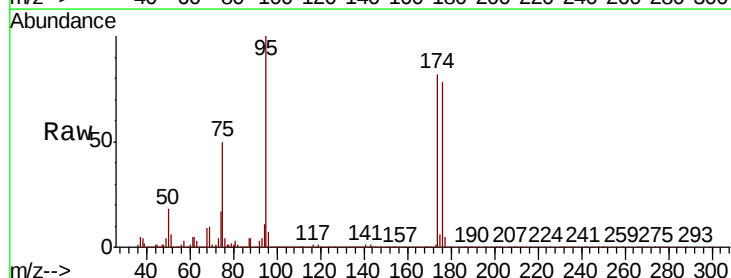
Acq: 09 Jan 2020 20:53

Tgt Ion: 75 Resp: 150917

Ion Ratio Lower Upper

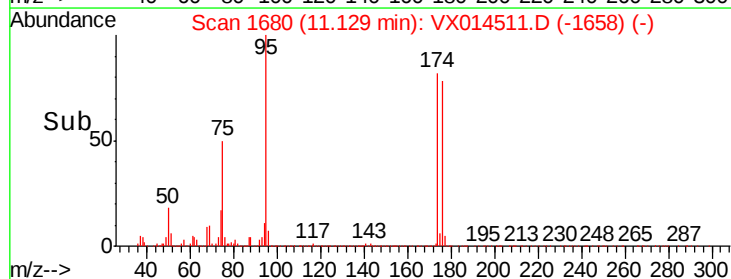
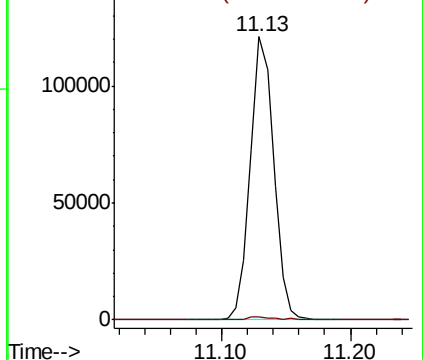
75 100

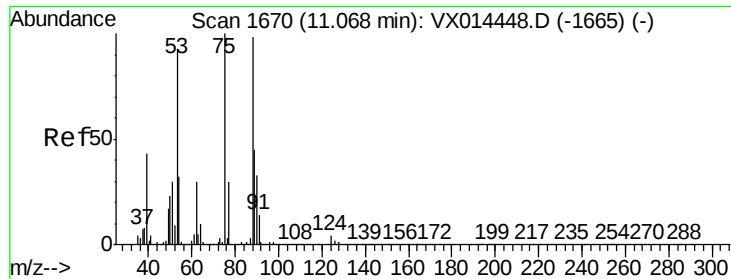
77 1.5 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.566 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2

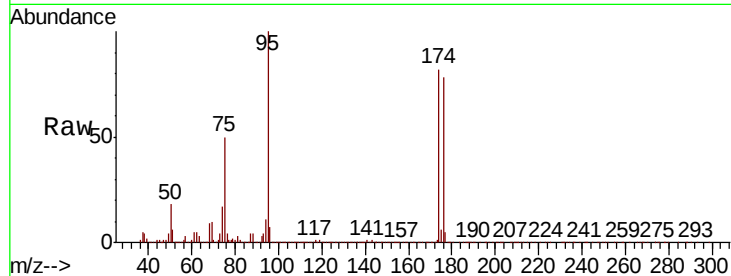
Tot Ion: 75 Resp: 150917

Ion Ratio Lower Upper

75 100

53 0.2 74.8 112.2#

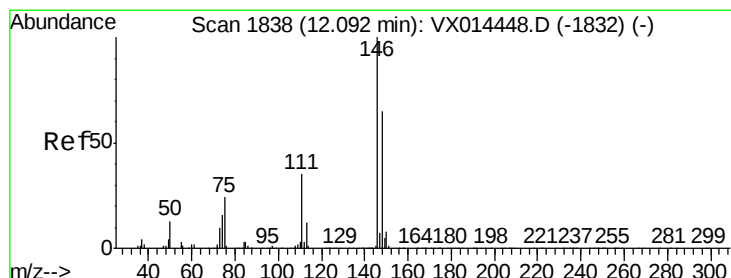
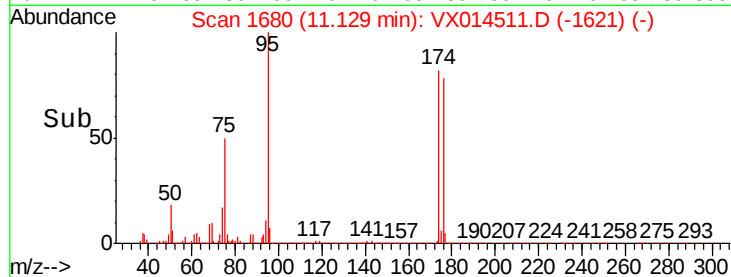
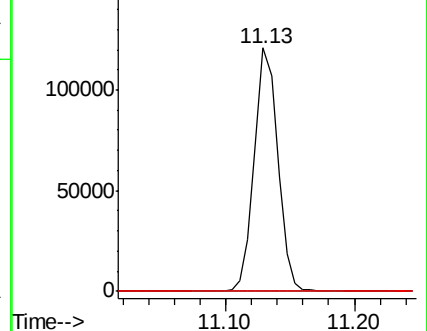
89 0.2 36.3 54.5#



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: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX014511.D

Acq: 09 Jan 2020 20:53

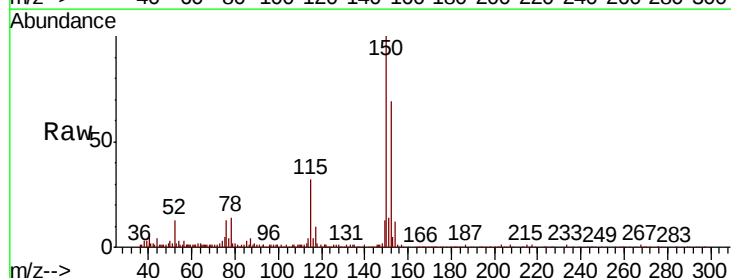
Tgt Ion:146 Resp: 479

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

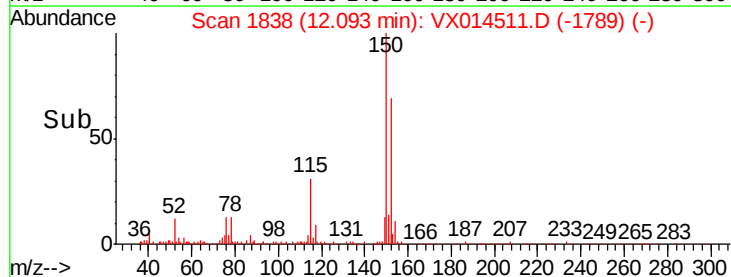
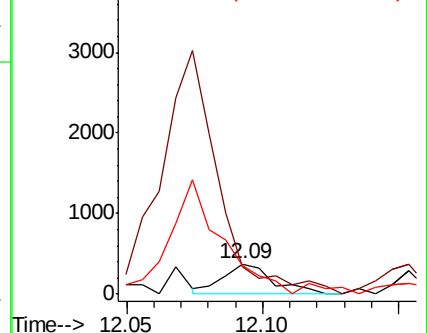
148 0.0 32.1 96.3#

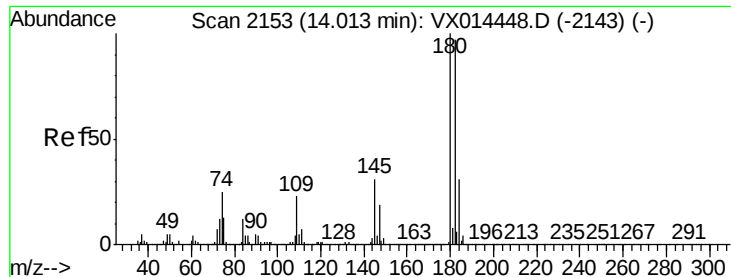


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

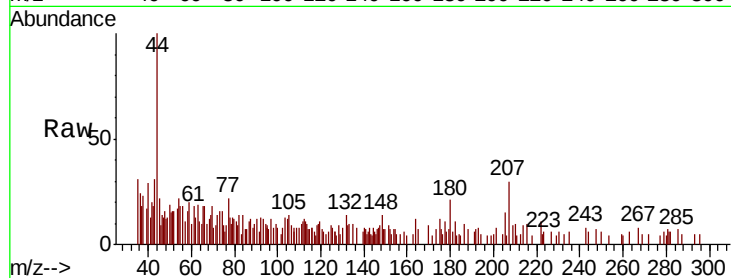




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014511.D
 Acq: 09 Jan 2020 20:53

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-2

Tot Ion	Ratio	Lower	Upper
180	100		
182	72.5	47.9	143.6
145	26.8	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

