

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011520\
 Data File : VX014622.D
 Acq On : 15 Jan 2020 16:38
 Operator : JC/SP
 Sample : L1142-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WS-1

Quant Time: Jan 16 01:12:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	72922	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	394306	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	354706	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	158754	30.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.23%
60) 4-Bromofluorobenzene	11.13	95	164735	29.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.73%
63) Toluene-d8	8.71	98	477735	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

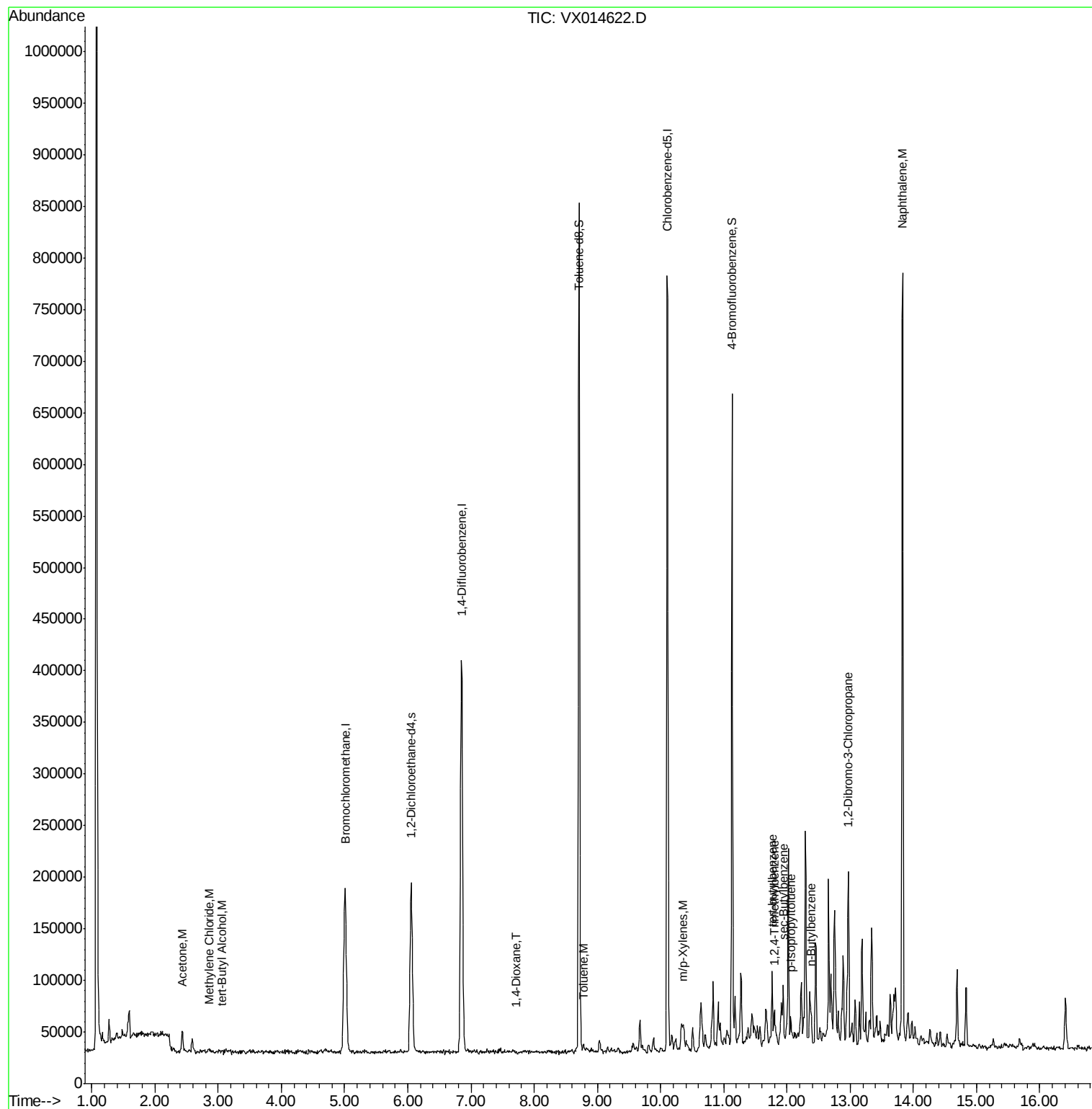
					Qvalue
15) Acetone	2.43	58	7228	8.641	ug/l 90
18) Methylene Chloride	2.86	84	1145	0.242	ug/l # 59
23) tert-Butyl Alcohol	3.06	59	266	0.258	ug/l # 1
45) 1,4-Dioxane	7.73	88	78	0.729	ug/l # 1
62) Toluene	8.78	91	5292	0.281	ug/l 97
67) m/p-Xylenes	10.35	106	2024	0.258	ug/l 79
79) tert-butylbenzene	11.76	119	22176	1.420	ug/l 91
80) 1,2,4-Trimethylbenzene	11.81	105	7245	0.435	ug/l 97
81) sec-Butylbenzene	11.94	105	21383	1.107	ug/l 99
82) p-Isopropyltoluene	12.06	119	11994	0.680	ug/l 96
85) n-Butylbenzene	12.39	91	5044	0.327	ug/l 84
88) 1,2-Dibromo-3-Chloropropan	12.98	75	815	0.565	ug/l # 1
91) Naphthalene	13.83	128	482515	25.888	ug/l 100

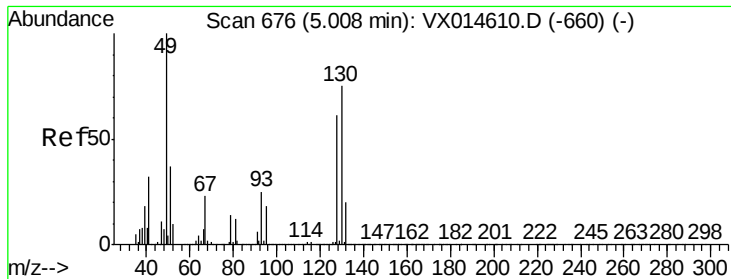
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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WS-1

Quant Time: Jan 16 01:12:42 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X011520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 15 12:41:12 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

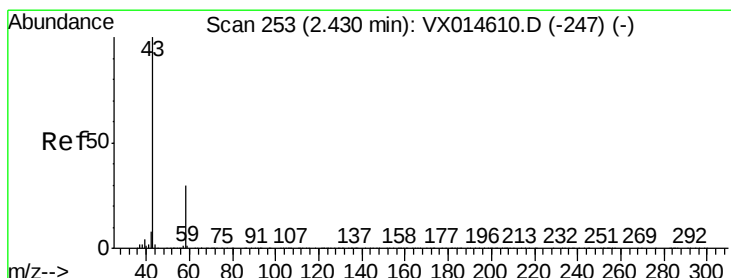
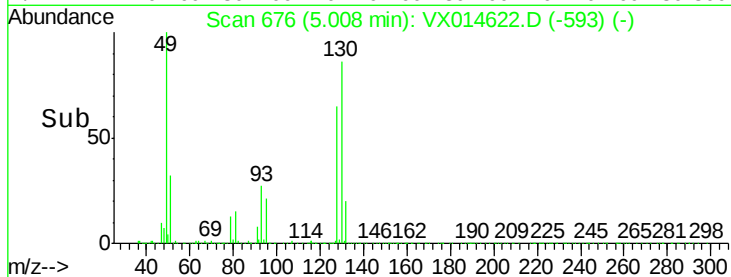
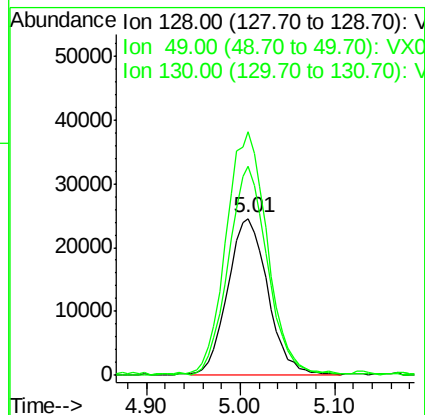
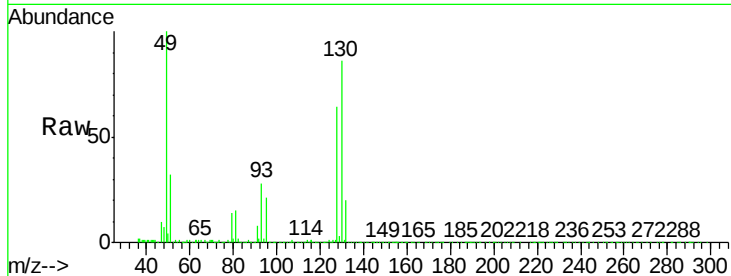
Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

Instrument :
MSVOA_X
ClientSampled :
WS-1

Tgt Ion:128 Resp: 72922

Ion	Ratio	Lower	Upper
128	100		
49	160.5	0.0	405.0
130	130.8	0.0	321.5



#15

Acetone

Concen: 8.641 ug/l

RT: 2.43 min Scan# 253

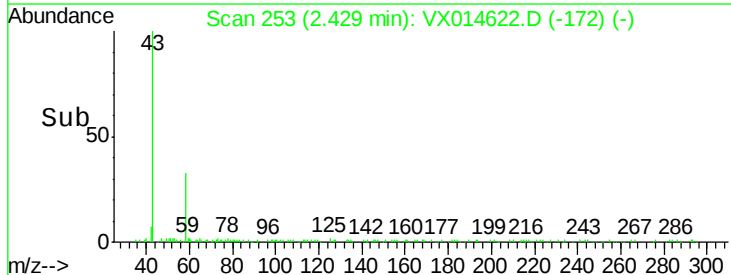
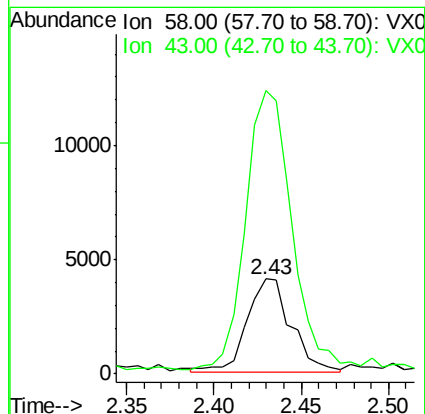
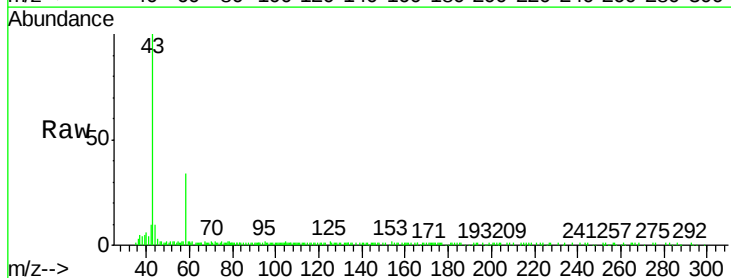
Delta R.T. -0.01 min

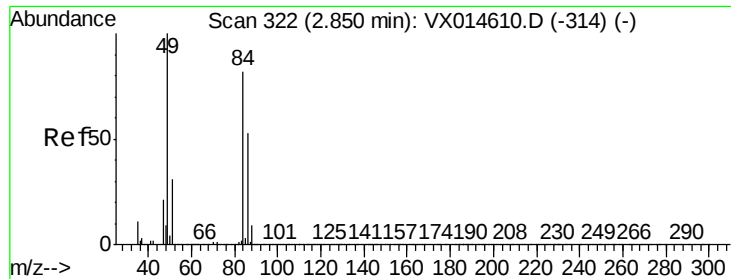
Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

Tgt Ion: 58 Resp: 7228

Ion	Ratio	Lower	Upper
58	100		
43	314.2	236.3	354.5

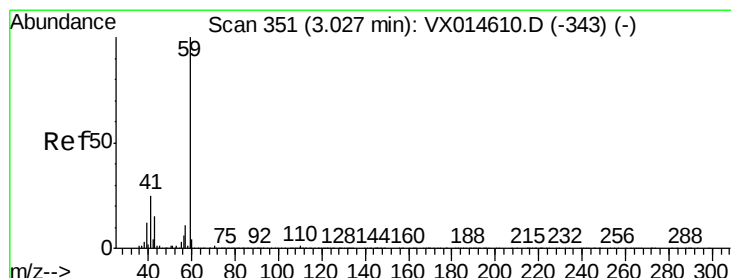
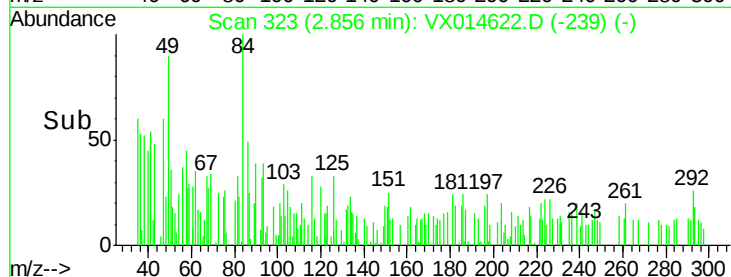
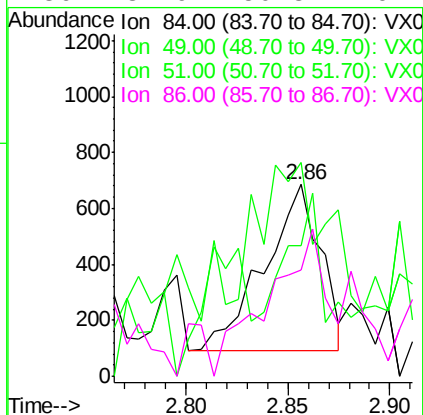
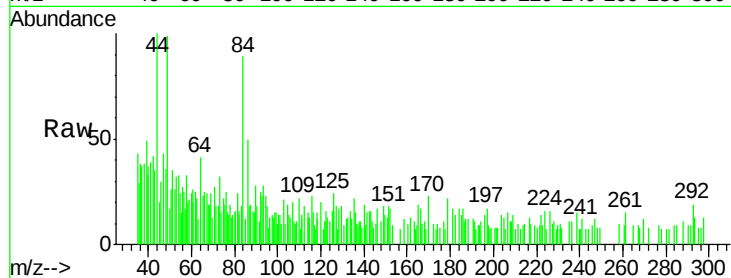




#18
Methylene Chloride
Concen: 0.242 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014622.D
Acq: 15 Jan 2020 16:38

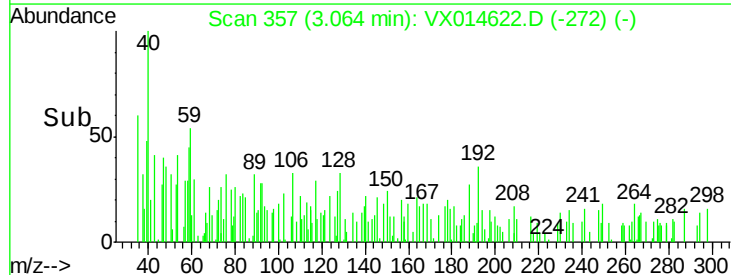
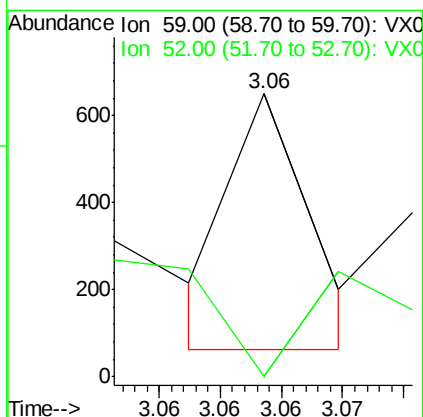
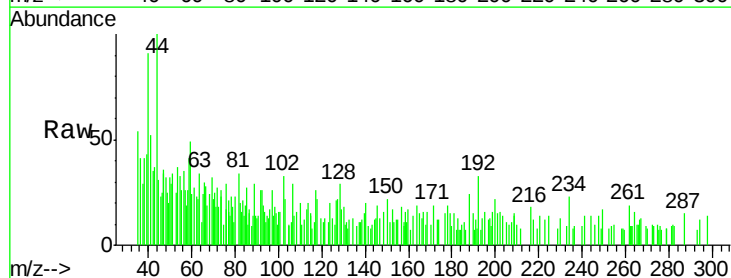
Instrument :
MSVOA_X
ClientSampled :
WS-1

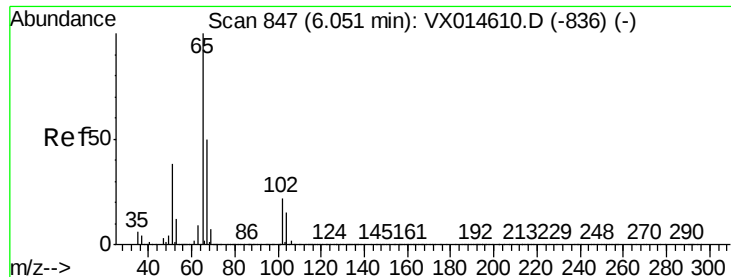
Tgt Ion: 84 Resp: 1145
Ion Ratio Lower Upper
84 100
49 75.0 102.2 153.2#
51 56.0 31.4 47.0#
86 32.9 50.8 76.2#



#23
tert-Butyl Alcohol
Concen: 0.258 ug/l
RT: 3.06 min Scan# 357
Delta R.T. 0.02 min
Lab File: VX014622.D
Acq: 15 Jan 2020 16:38

Tgt Ion: 59 Resp: 266
Ion Ratio Lower Upper
59 100
52 167.7 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 30.973 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

Instrument :

MSVOA_X

ClientSampleId :

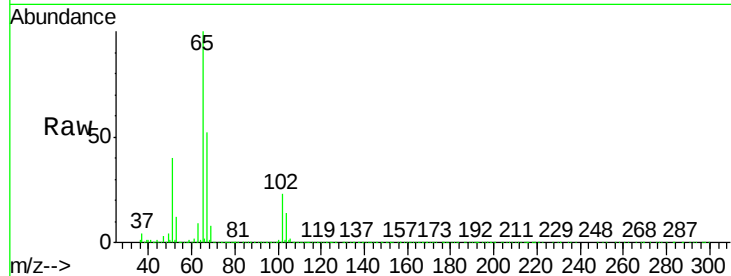
WS-1

Tgt Ion: 65 Resp: 158754

Ion Ratio Lower Upper

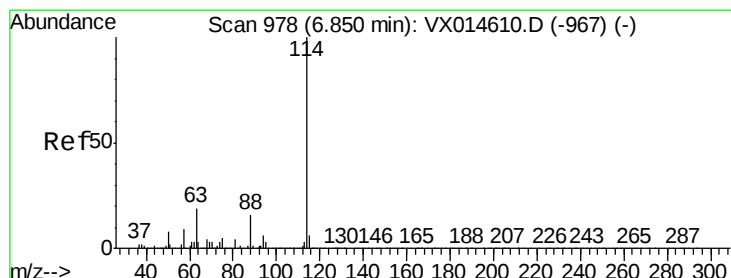
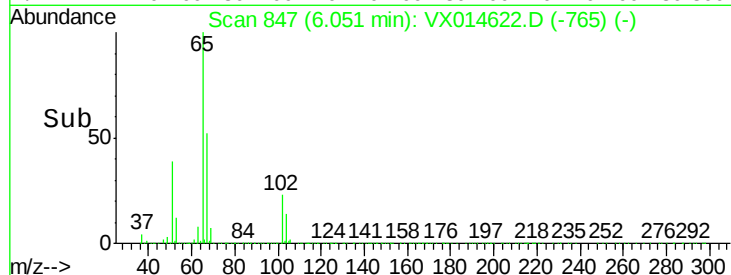
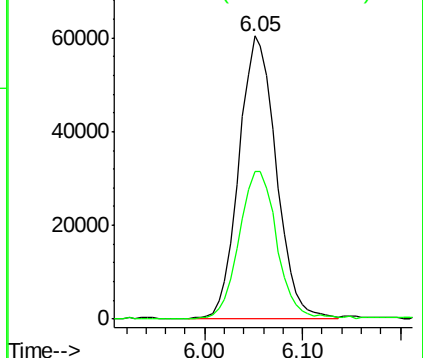
65 100

67 52.8 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

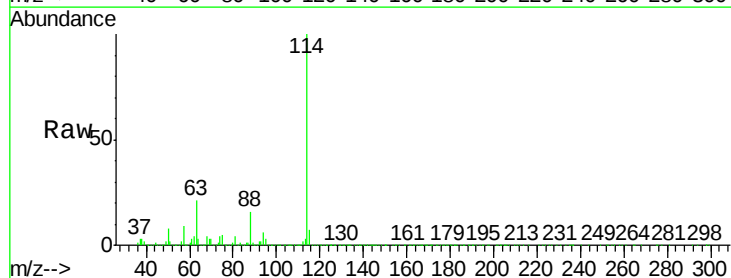
Tgt Ion: 114 Resp: 394306

Ion Ratio Lower Upper

114 100

63 19.8 16.1 24.1

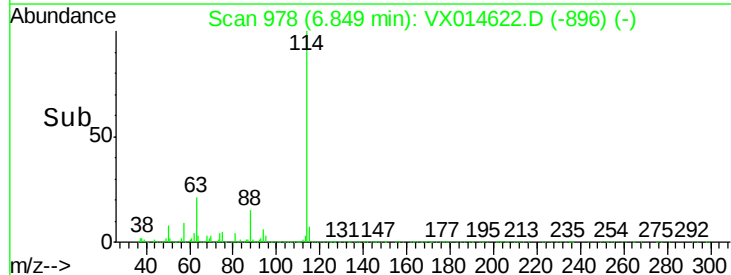
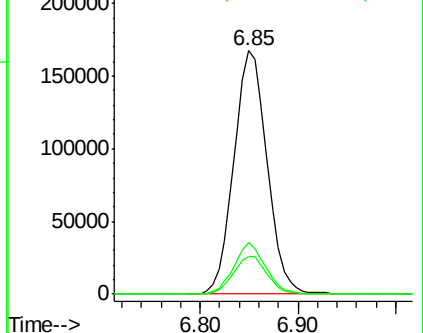
88 15.6 12.5 18.7

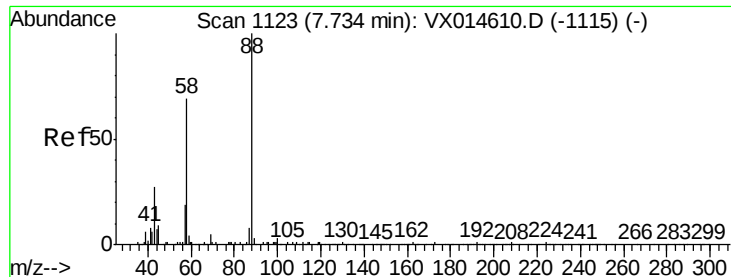


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#45

1,4-Dioxane

Concen: 0.729 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

Instrument :

MSVOA_X

ClientSampleId :

WS-1

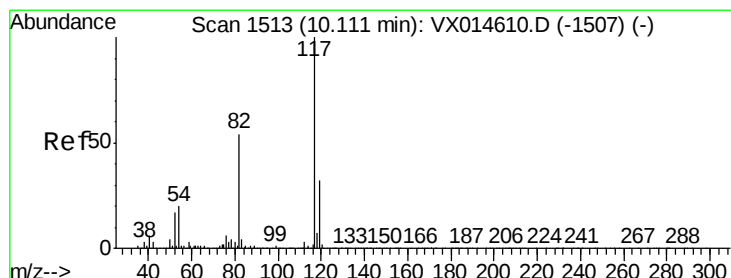
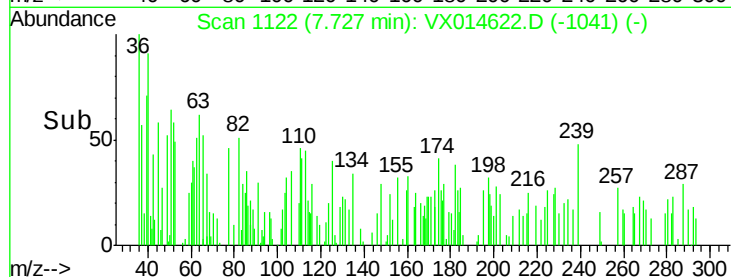
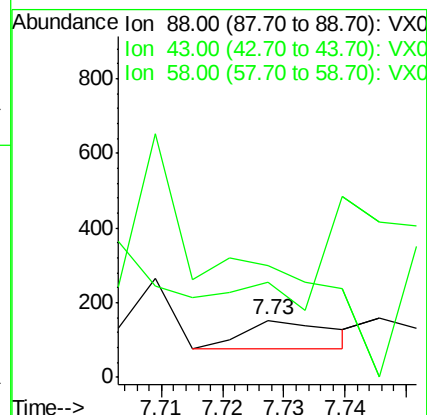
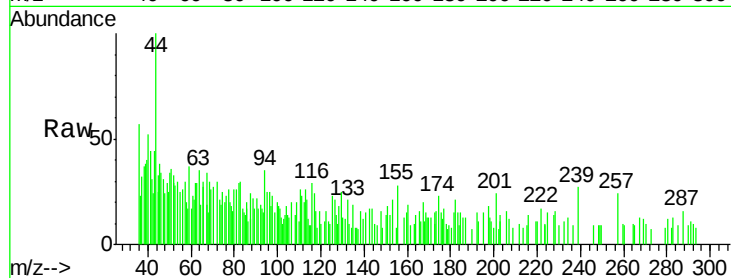
Tgt Ion: 88 Resp: 78

Ion Ratio Lower Upper

88 100

43 521.8 25.4 38.2#

58 170.5 56.5 84.7#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

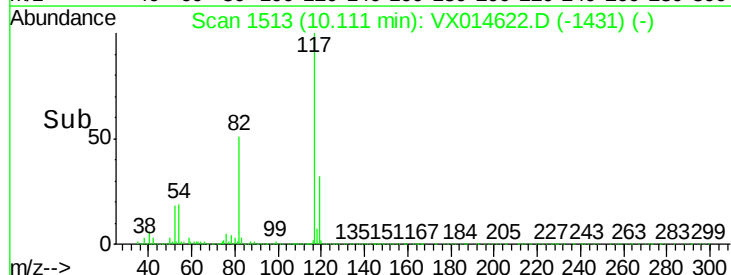
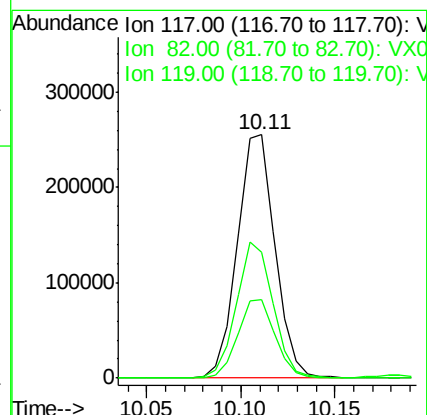
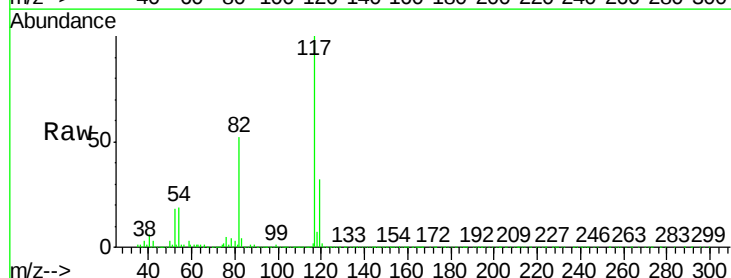
Tgt Ion: 117 Resp: 354706

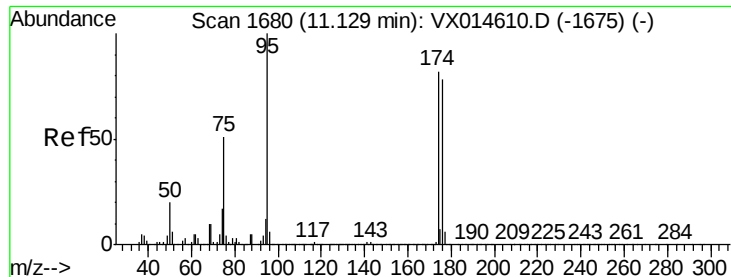
Ion Ratio Lower Upper

117 100

82 54.2 43.8 65.6

119 32.0 25.8 38.6

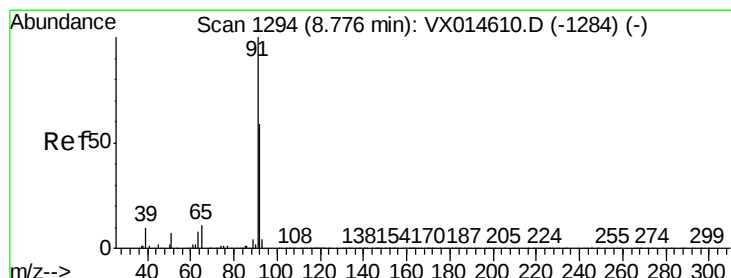
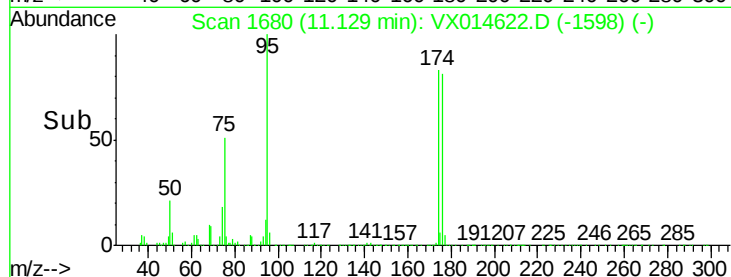
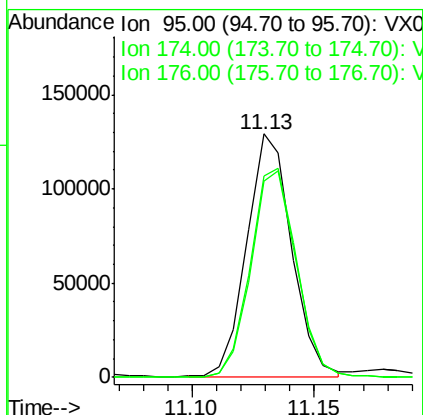
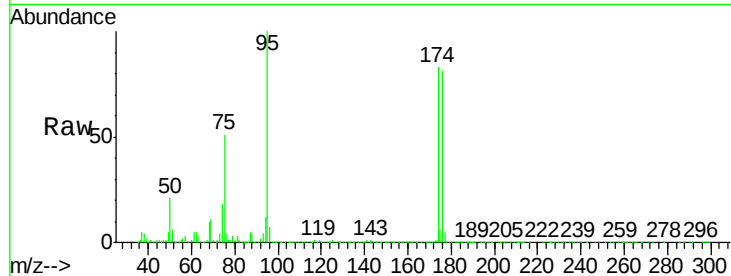




#60
4-Bromofluorobenzene
Concen: 29.023 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014622.D
Acq: 15 Jan 2020 16:38

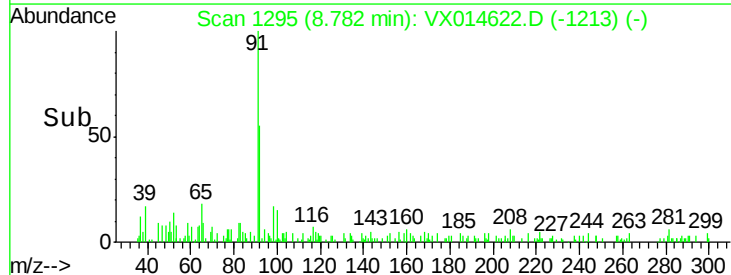
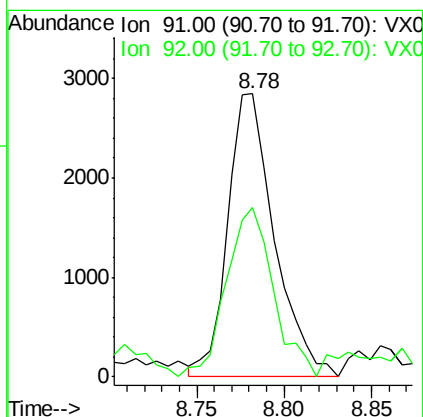
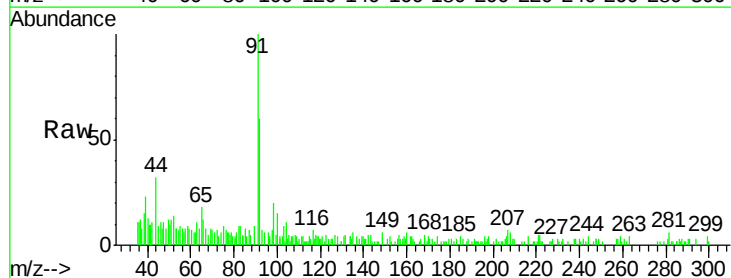
Instrument :
MSVOA_X
ClientSampleId :
WS-1

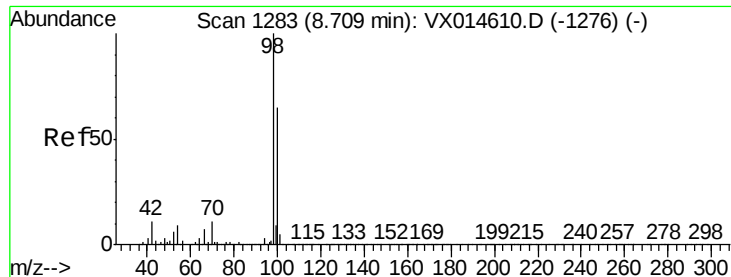
Tgt Ion: 95 Resp: 164735
Ion Ratio Lower Upper
95 100
174 88.4 70.2 105.2
176 85.5 68.3 102.5



#62
Toluene
Concen: 0.281 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VX014622.D
Acq: 15 Jan 2020 16:38

Tgt Ion: 91 Resp: 5292
Ion Ratio Lower Upper
91 100
92 60.1 46.4 69.6





#63

Toluene-d8

Concen: 29.818 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

Instrument :

MSVOA_X

ClientSampleId :

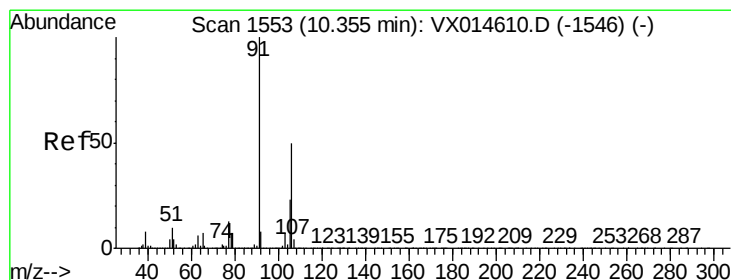
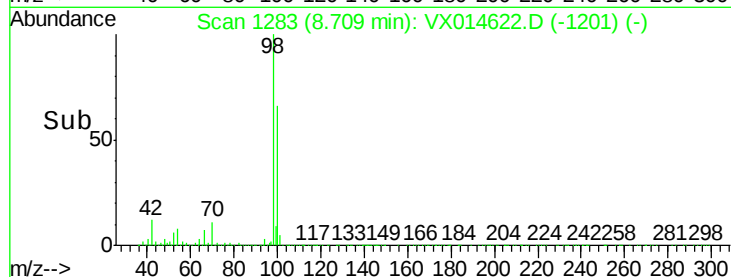
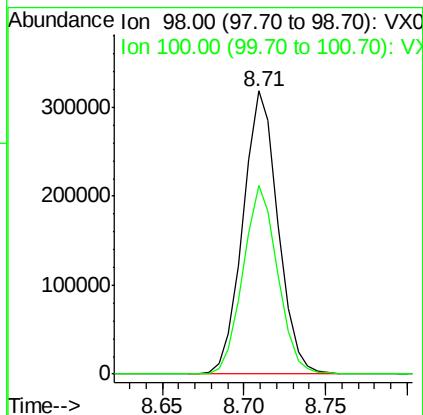
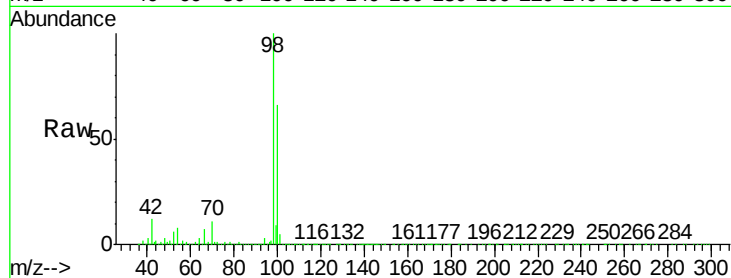
WS-1

Tgt Ion: 98 Resp: 477735

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.2



#67

m/p-Xylenes

Concen: 0.258 ug/l

RT: 10.35 min Scan# 1552

Delta R.T. -0.01 min

Lab File: VX014622.D

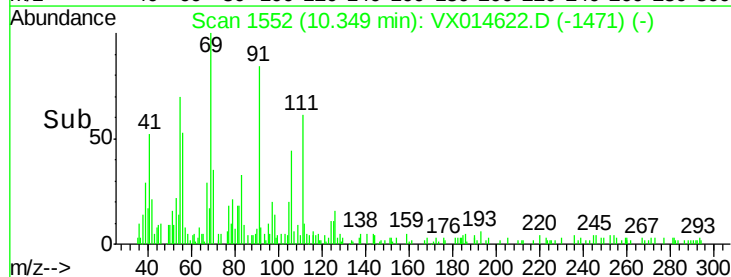
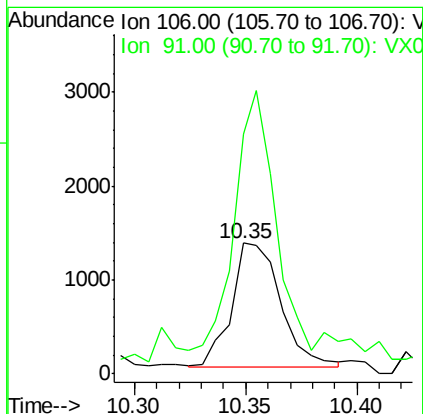
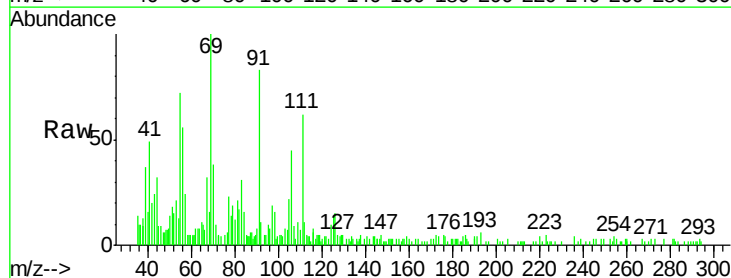
Acq: 15 Jan 2020 16:38

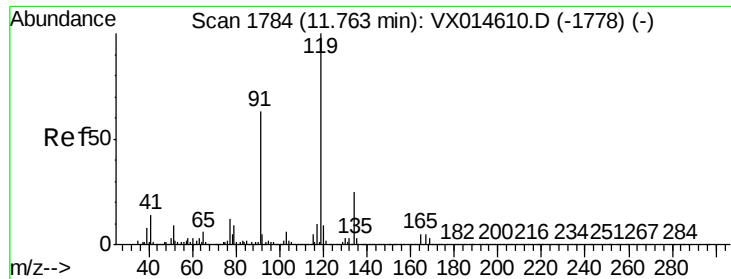
Tgt Ion: 106 Resp: 2024

Ion Ratio Lower Upper

106 100

91 167.3 159.3 238.9





#79

tert-butylbenzene

Concen: 1.420 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. 0.00 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

Instrument :

MSVOA_X

ClientSampleId :

WS-1

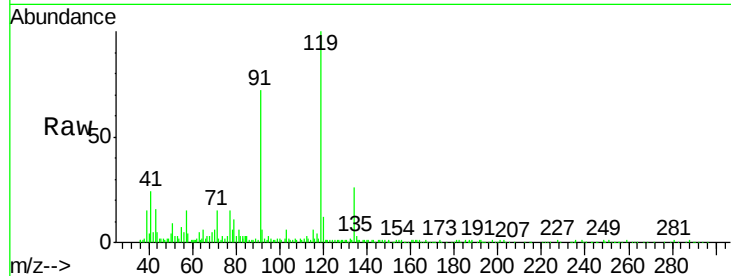
Tgt Ion:119 Resp: 22176

Ion Ratio Lower Upper

119 100

91 65.2 0.0 112.6

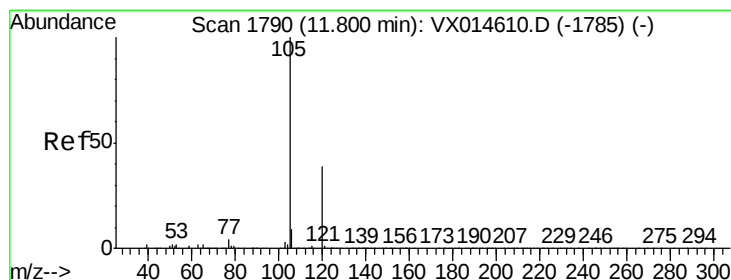
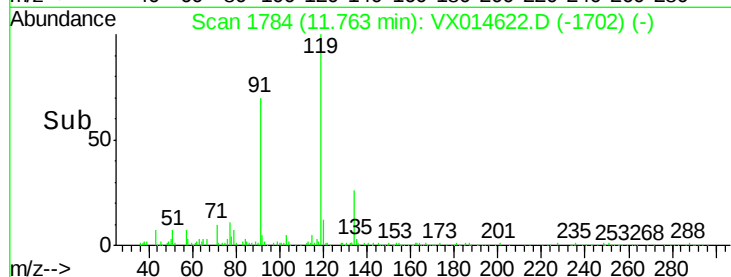
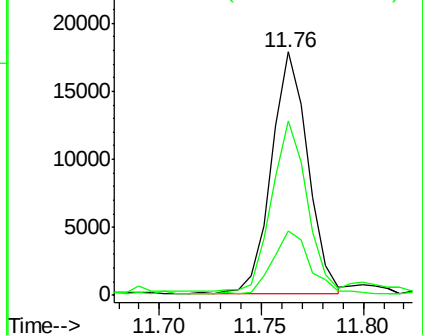
134 25.6 0.0 49.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.435 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX014622.D

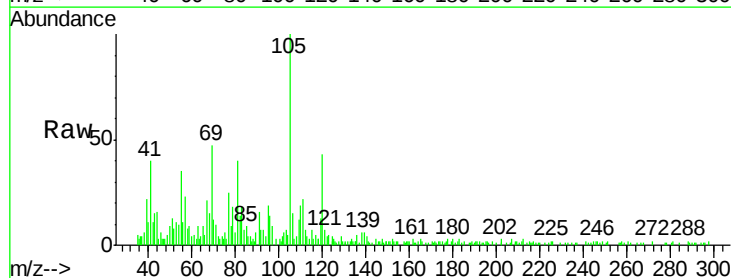
Acq: 15 Jan 2020 16:38

Tgt Ion:105 Resp: 7245

Ion Ratio Lower Upper

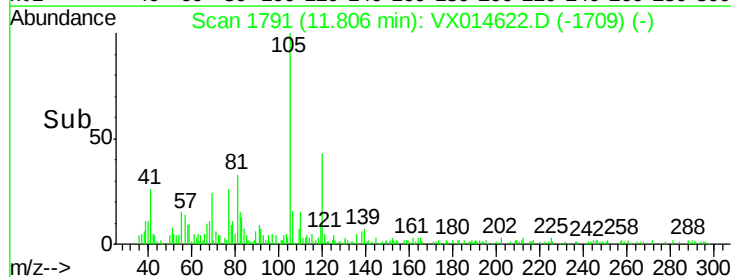
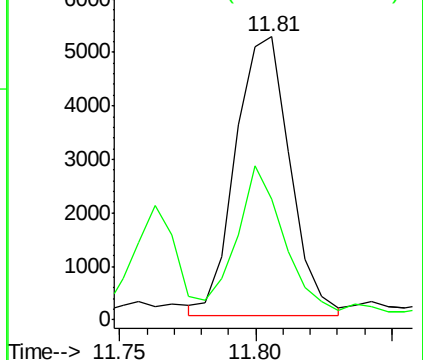
105 100

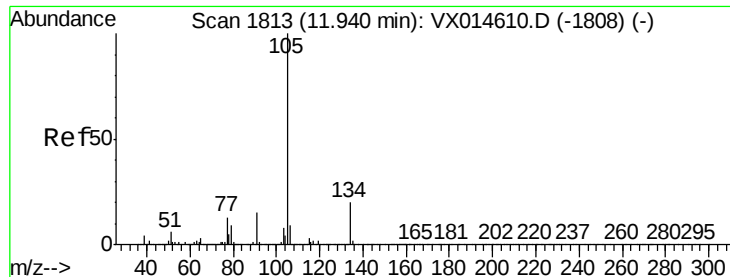
120 47.8 0.0 92.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 1.107 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

Instrument :

MSVOA_X

ClientSampleId :

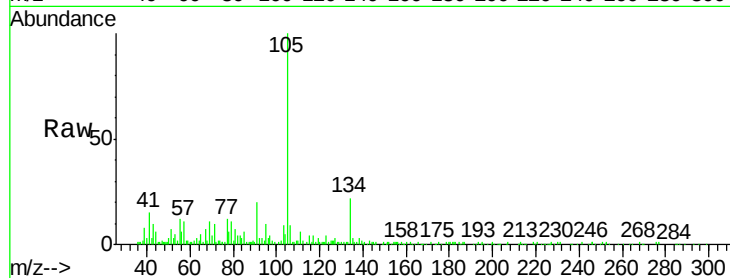
WS-1

Tgt Ion:105 Resp: 21383

Ion Ratio Lower Upper

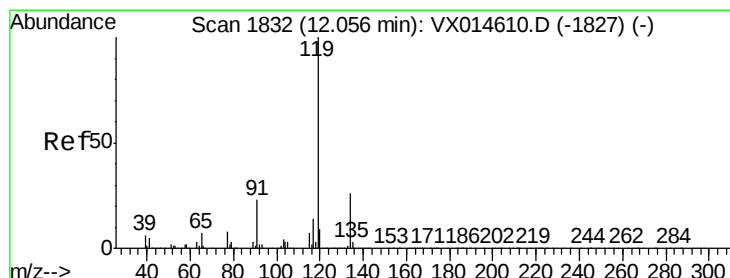
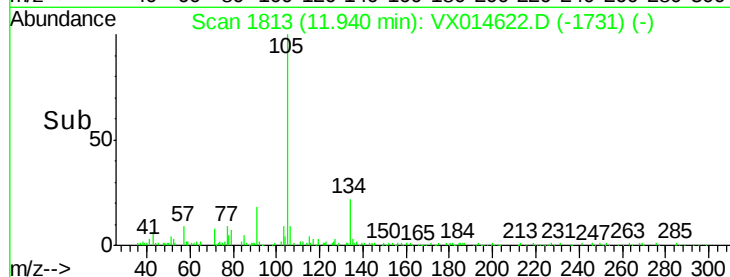
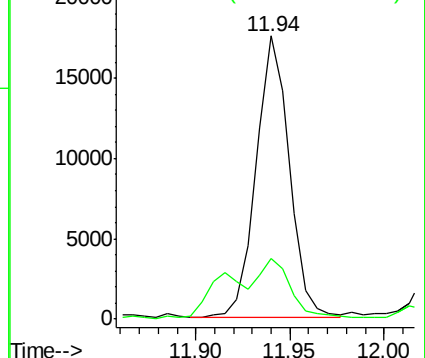
105 100

134 20.6 0.0 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 0.680 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX014622.D

Acq: 15 Jan 2020 16:38

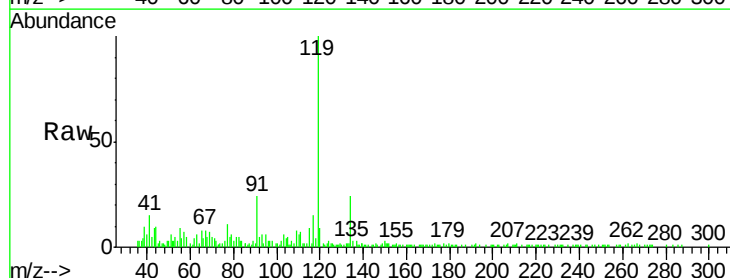
Tgt Ion:119 Resp: 11994

Ion Ratio Lower Upper

119 100

134 27.9 0.0 53.8

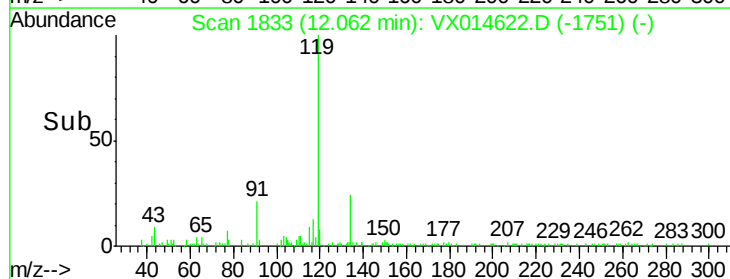
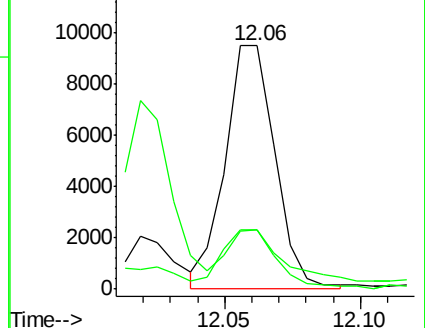
91 25.3 0.0 45.0

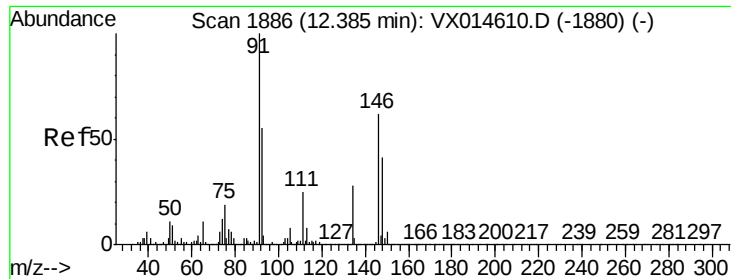


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

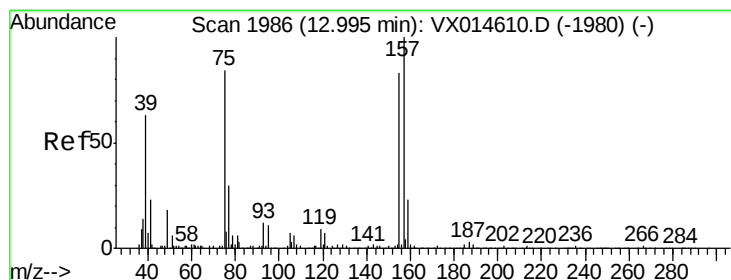
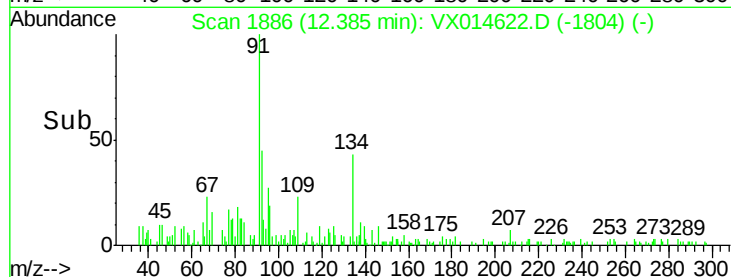
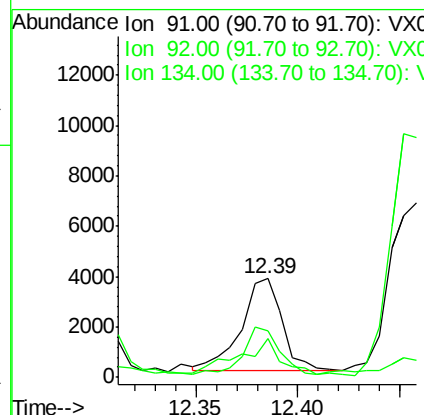
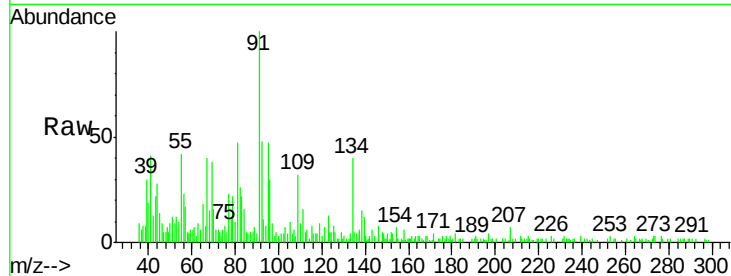




#85
n-Butylbenzene
Concen: 0.327 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX014622.D
Acq: 15 Jan 2020 16:38

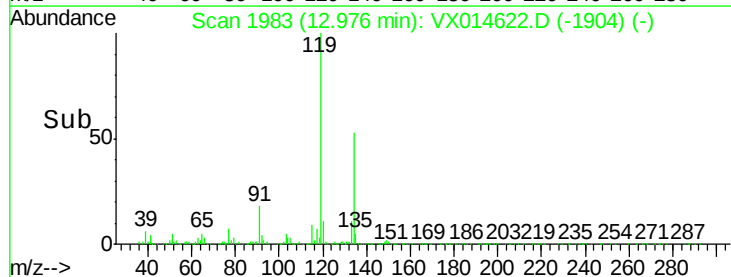
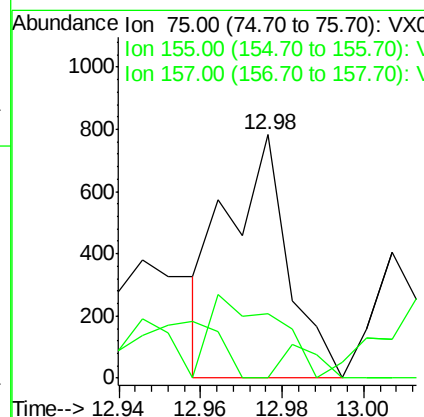
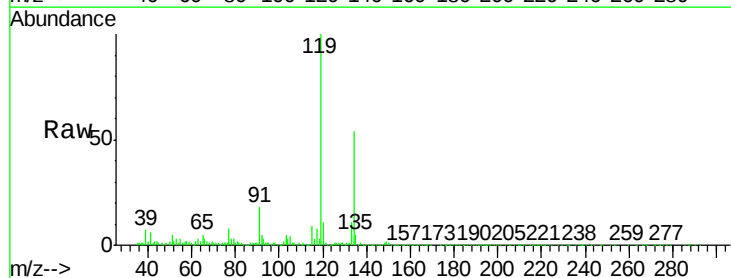
Instrument :
MSVOA_X
ClientSampleId :
WS-1

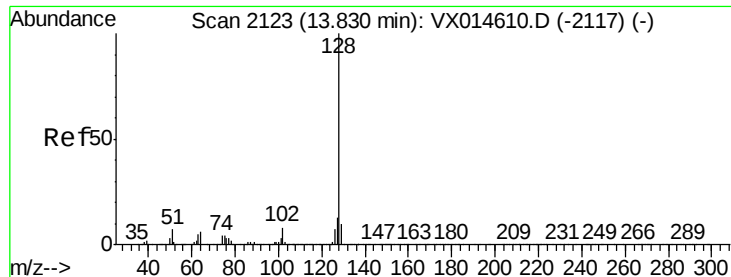
Tgt Ion: 91 Resp: 5044
Ion Ratio Lower Upper
91 100
92 46.0 0.0 109.0
134 40.1 0.0 54.0



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.565 ug/l
RT: 12.98 min Scan# 1983
Delta R.T. -0.02 min
Lab File: VX014622.D
Acq: 15 Jan 2020 16:38

Tgt Ion: 75 Resp: 815
Ion Ratio Lower Upper
75 100
155 8.2 73.8 110.6#
157 0.0 95.0 142.4#





#91
Naphthalene
Concen: 25.888 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014622.D
Acq: 15 Jan 2020 16:38

Instrument :
MSVOA_X
ClientSampleId :
WS-1

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.3	8.9	13.3

