

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013542.D
 Acq On : 22 Nov 2019 18:41
 Operator : JC/SP
 Sample : K5978-04 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

Quant Time: Nov 22 22:26:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	108071	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	580711	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	501743	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	240745	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	11.14	95	219216	27.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.60%
63) Toluene-d8	8.71	98	684566	30.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.57%

Target Compounds

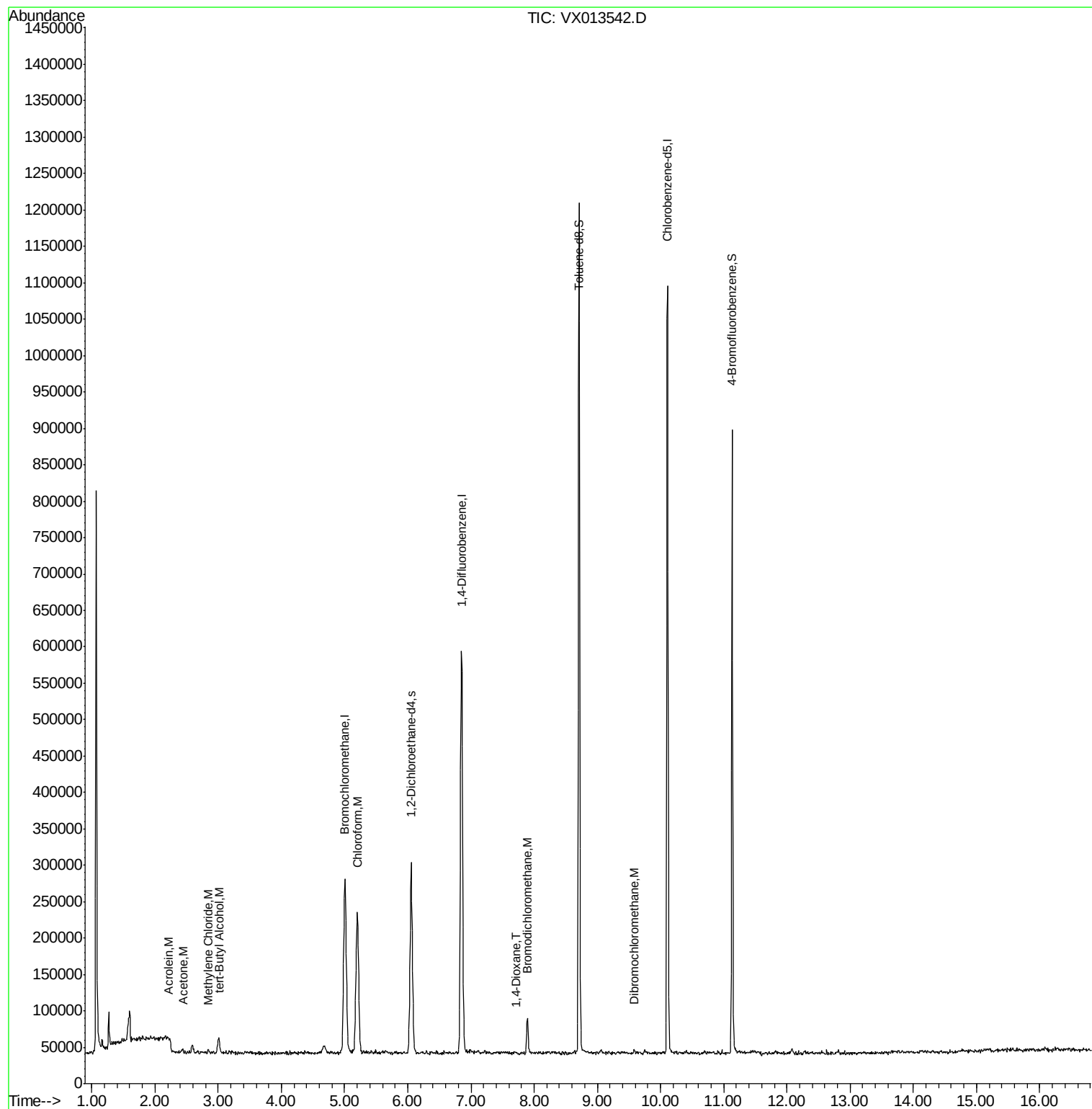
					Ovalue
13) Acrolein	2.22	56	383	0.308 ug/l	91
15) Acetone	2.44	58	2329	1.788 ug/l	86
18) Methylene Chloride	2.84	84	2485	0.328 ug/l #	67
23) tert-Butyl Alcohol	3.01	59	12716	6.144 ug/l #	99
25) Chloroform	5.20	83	232197	18.418 ug/l	100
41) Bromodichloromethane	7.89	83	33494	3.706 ug/l	90
45) 1,4-Dioxane	7.72	88	84	0.443 ug/l #	1
53) Dibromochloromethane	9.58	129	2985	0.411 ug/l	83

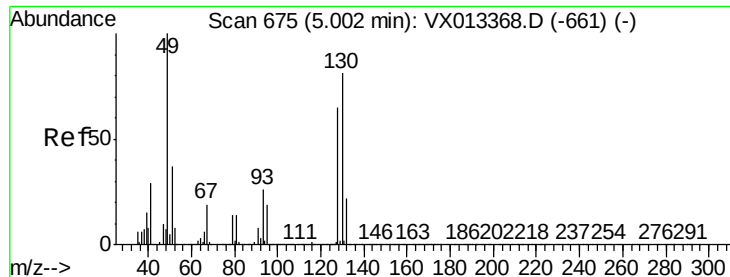
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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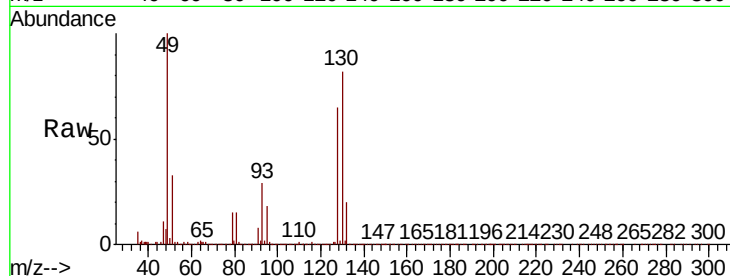




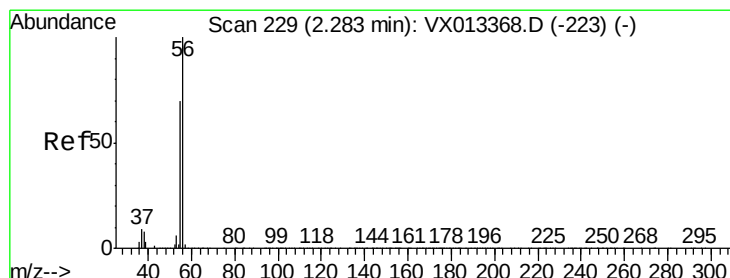
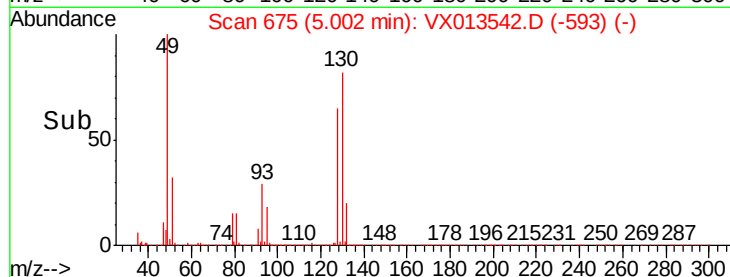
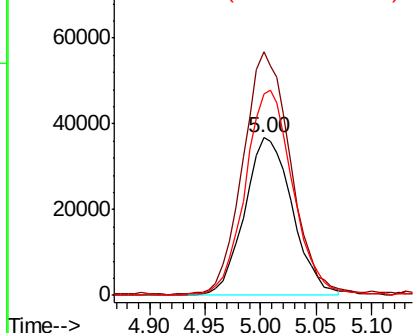
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX013542.D
Acq: 22 Nov 2019 18:41

Instrument :
MSVOA_X
ClientSampleId :
14B-4

Tot Ion:128 Resp: 108071
Ion Ratio Lower Upper
128 100
49 156.7 0.0 388.3
130 131.3 0.0 318.5

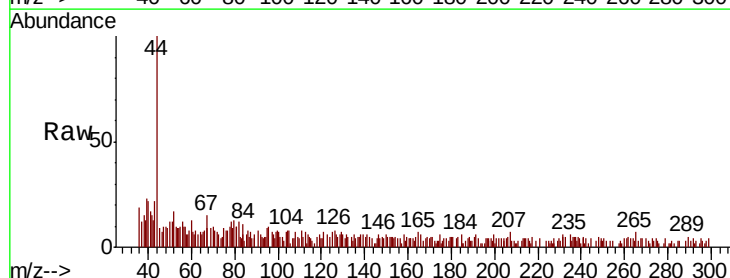


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V

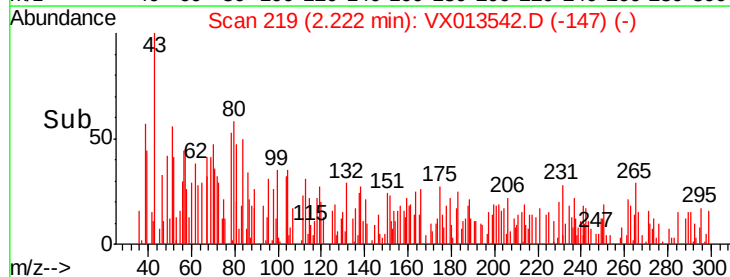
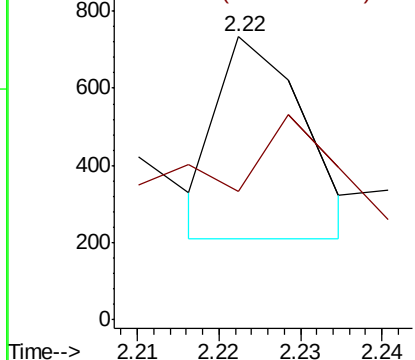


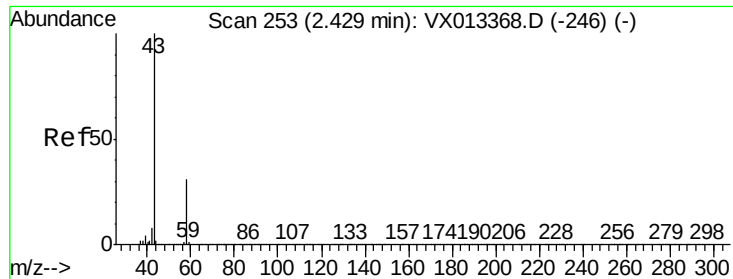
#13
Acrolein
Concen: 0.308 ug/l
RT: 2.22 min Scan# 219
Delta R.T. -0.06 min
Lab File: VX013542.D
Acq: 22 Nov 2019 18:41

Tgt Ion: 56 Resp: 383
Ion Ratio Lower Upper
56 100
55 62.7 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 1.788 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013542.D

Acq: 22 Nov 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

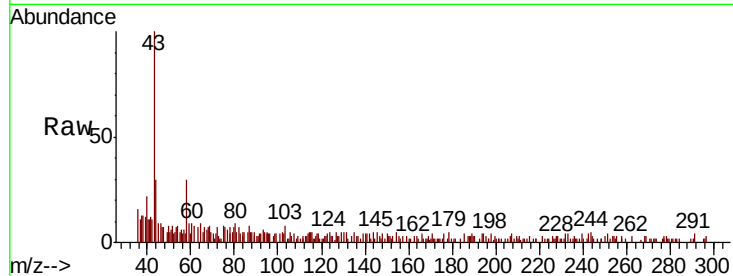
14B-4

Tot Ion: 58 Resp: 2329

Ion Ratio Lower Upper

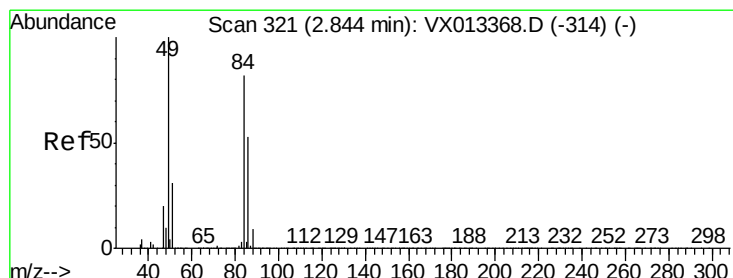
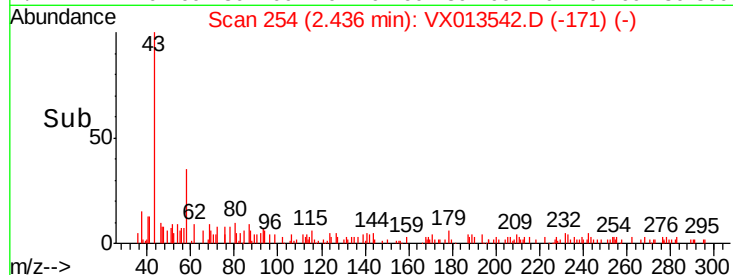
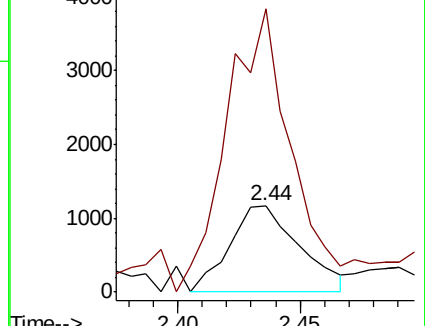
58 100

43 298.4 261.4 392.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.328 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX013542.D

Acq: 22 Nov 2019 18:41

Tgt Ion: 84 Resp: 2485

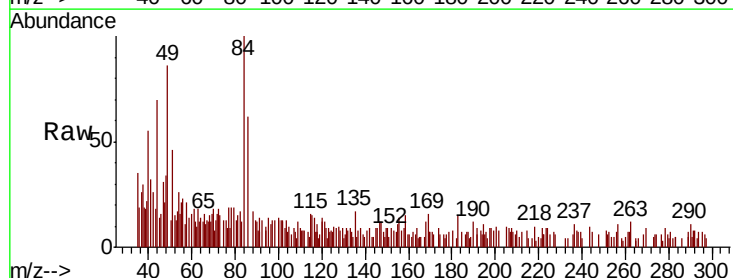
Ion Ratio Lower Upper

84 100

49 69.9 96.8 145.2#

51 22.7 30.0 45.0#

86 54.0 51.7 77.5

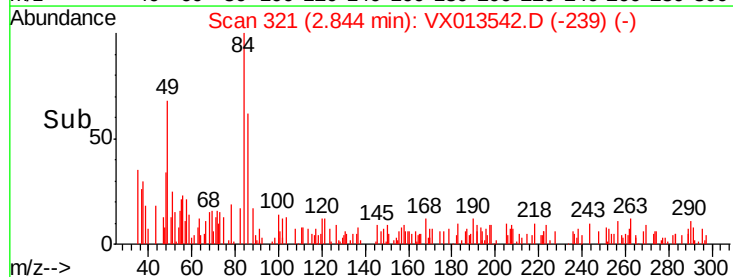
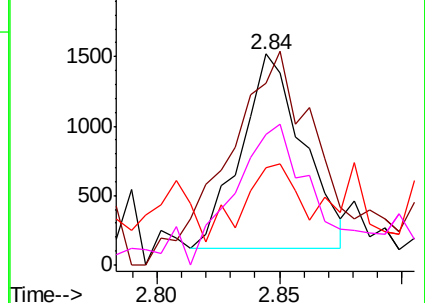


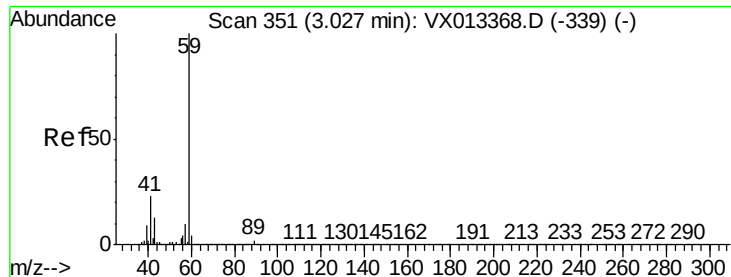
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



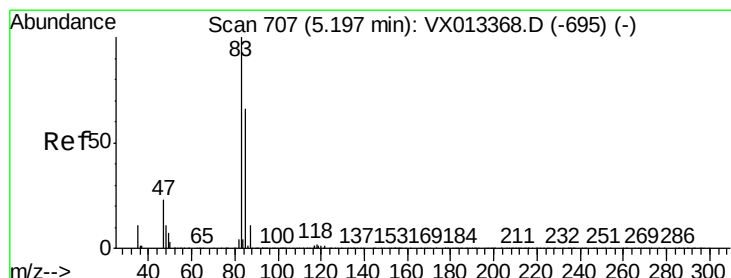
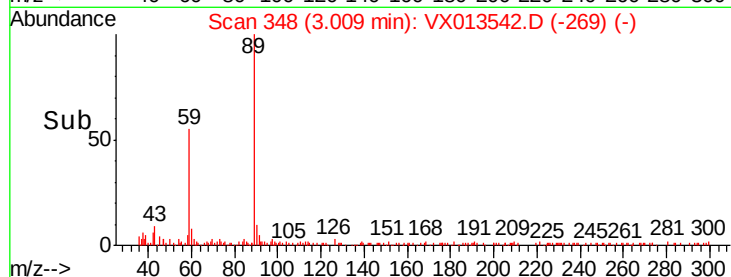
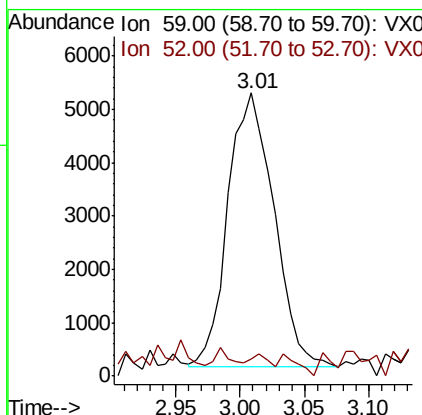
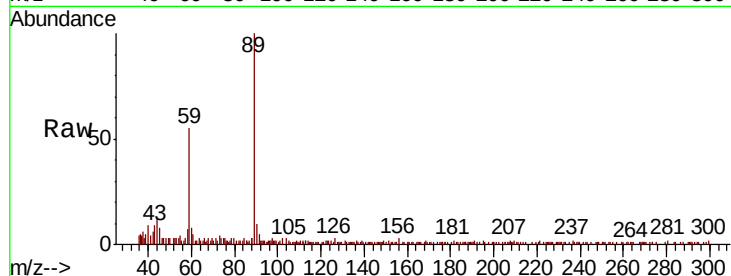


#23

tert-Butyl Alcohol
 Concen: 6.144 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VX013542.D
 Acq: 22 Nov 2019 18:41

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

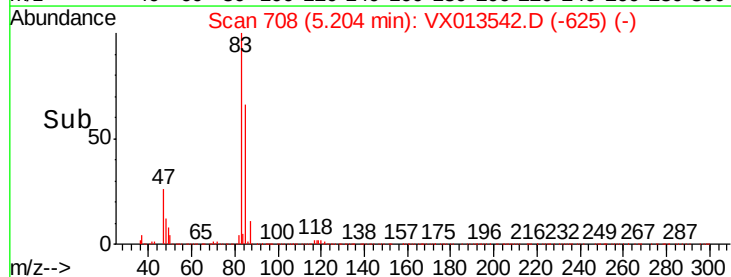
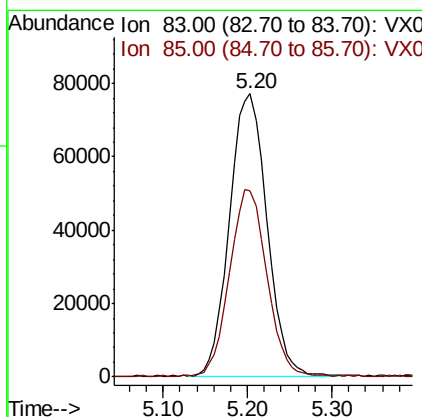
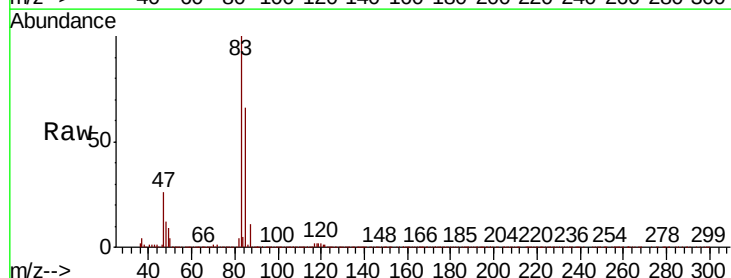
Tot Ion: 59 Resp: 12716
 Ion Ratio Lower Upper
 59 100
 52 1.5 0.1 0.1#

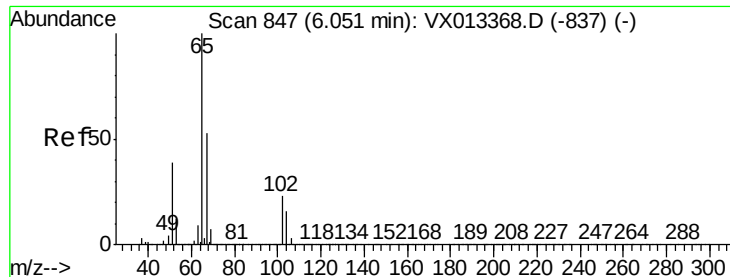


#25

Chloroform
 Concen: 18.418 ug/l
 RT: 5.20 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VX013542.D
 Acq: 22 Nov 2019 18:41

Tgt Ion: 83 Resp: 232197
 Ion Ratio Lower Upper
 83 100
 85 65.7 52.4 78.6





#27

1,2-Dichloroethane-d4

Concen: 30.168 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013542.D

Acq: 22 Nov 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

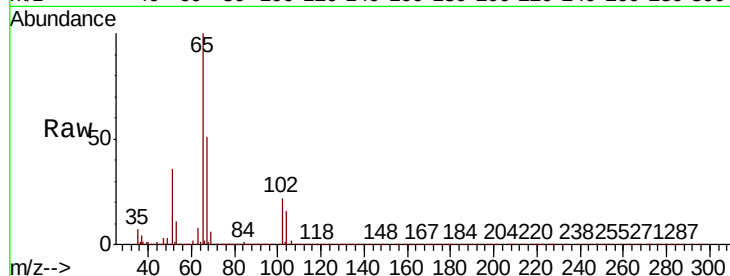
14B-4

Tot Ion: 65 Resp: 240745

Ion Ratio Lower Upper

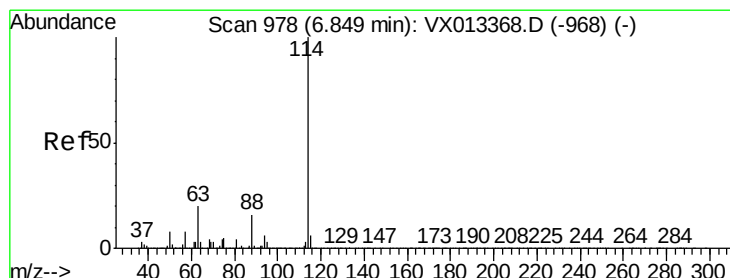
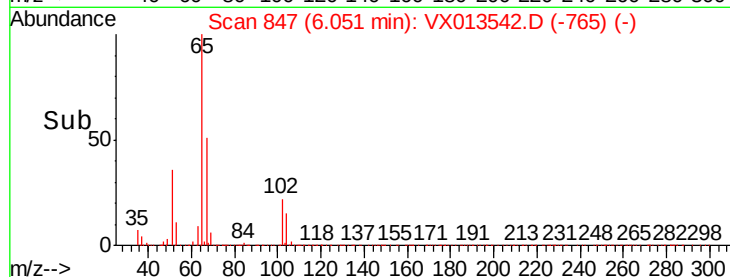
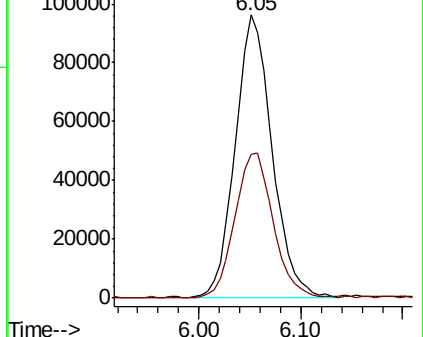
65 100

67 52.8 41.0 61.6



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: VX013542.D

Acq: 22 Nov 2019 18:41

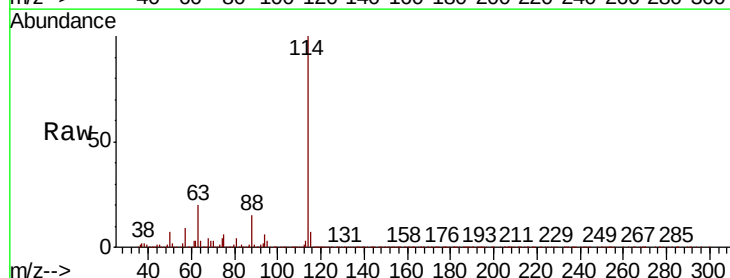
Tgt Ion: 114 Resp: 580711

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

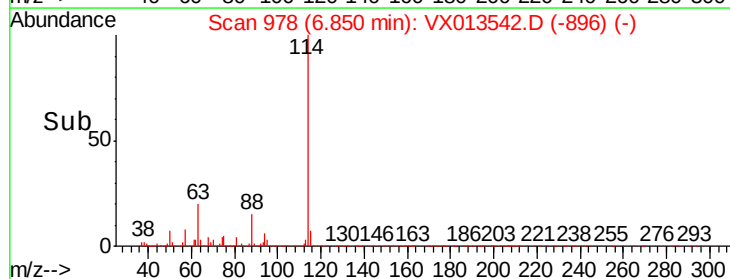
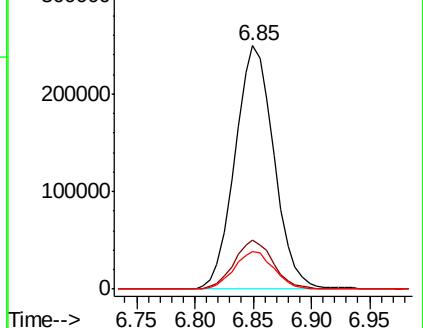
88 15.6 12.3 18.5

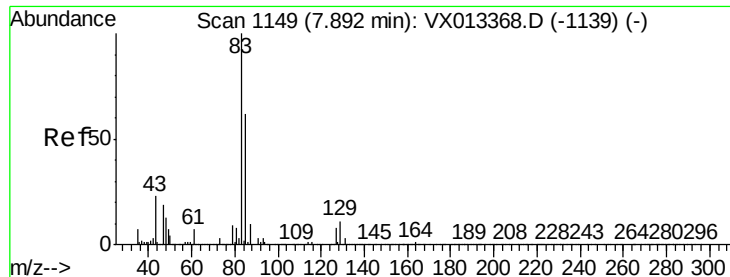


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#41

Bromodichloromethane

Concen: 3.706 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX013542.D

Acq: 22 Nov 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

14B-4

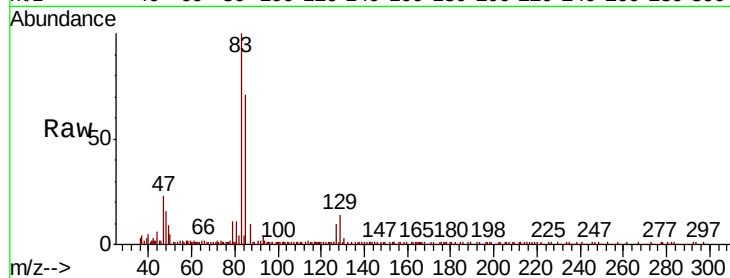
Tot Ion: 83 Resp: 33494

Ion Ratio Lower Upper

83 100

85 70.0 49.3 73.9

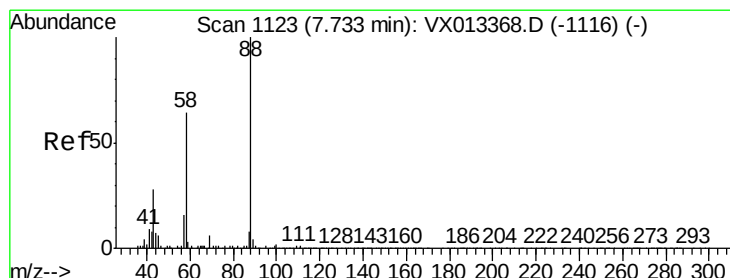
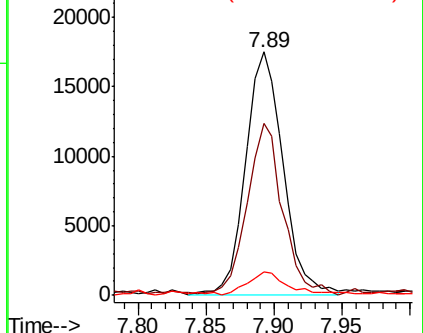
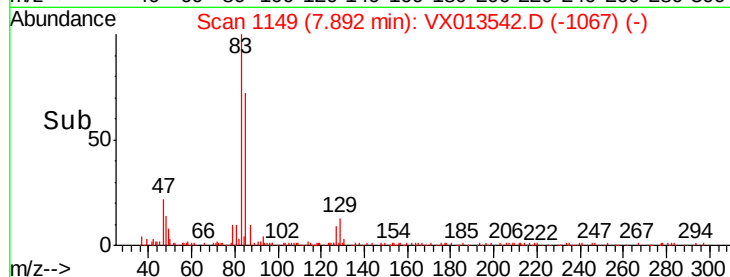
127 8.7 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 0.443 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013542.D

Acq: 22 Nov 2019 18:41

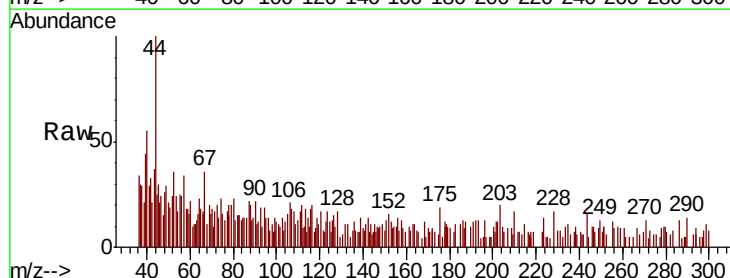
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 338.1 26.1 39.1#

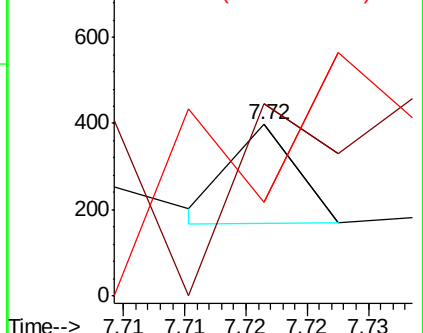
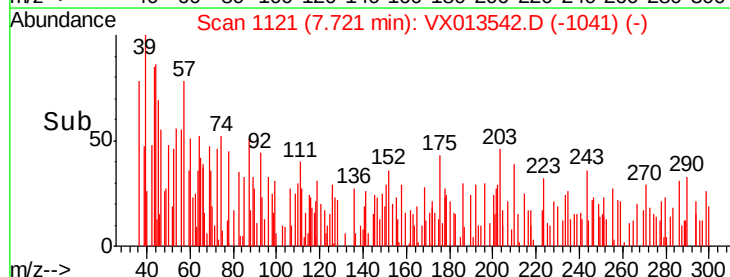
58 836.9 55.8 83.8#

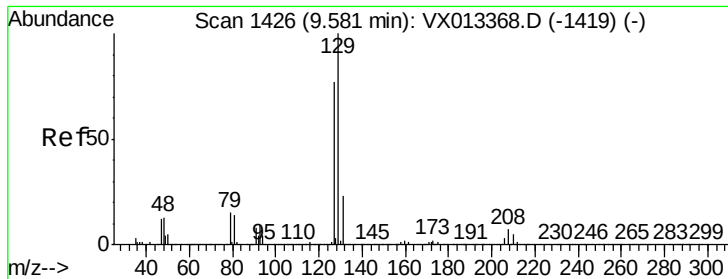


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#53

Dibromochloromethane

Concen: 0.411 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX013542.D

Acq: 22 Nov 2019 18:41

Instrument :

MSVOA_X

ClientSampleId :

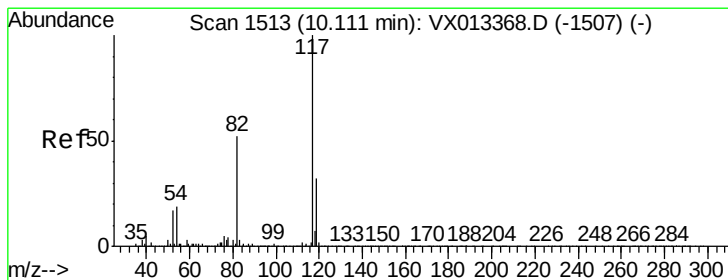
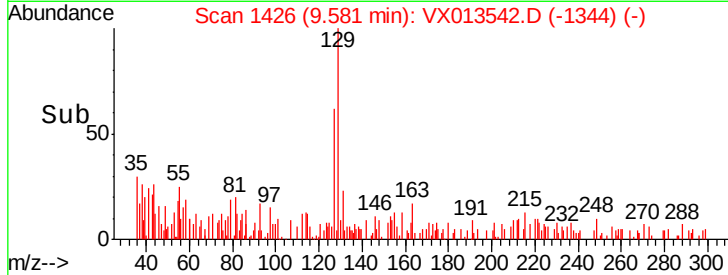
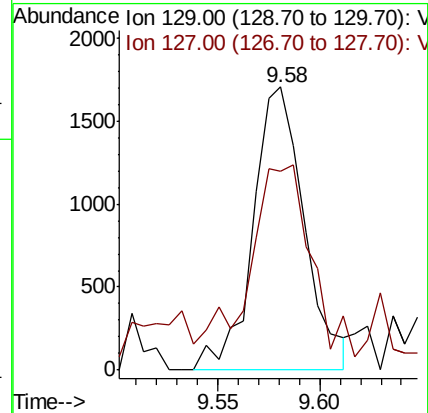
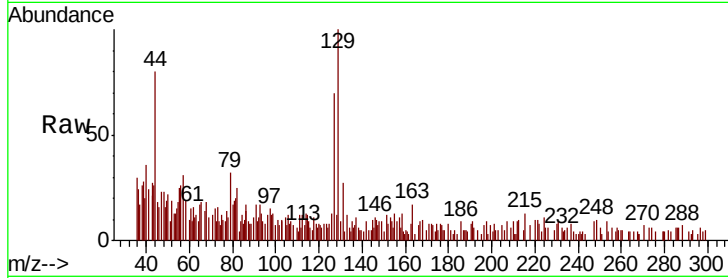
14B-4

Tot Ion:129 Resp: 2985

Ion Ratio Lower Upper

129 100

127 64.4 39.6 119.0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013542.D

Acq: 22 Nov 2019 18:41

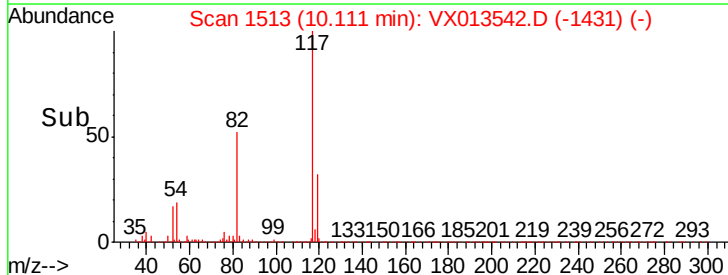
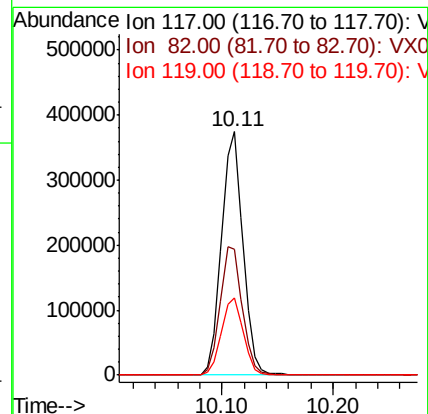
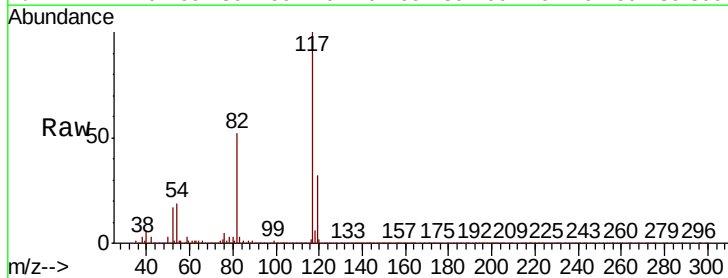
Tgt Ion:117 Resp: 501743

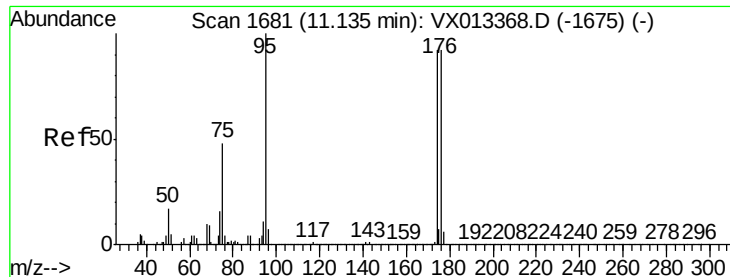
Ion Ratio Lower Upper

117 100

82 54.1 43.7 65.5

119 32.5 25.5 38.3

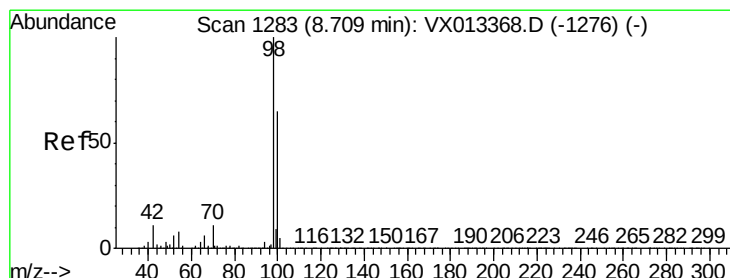
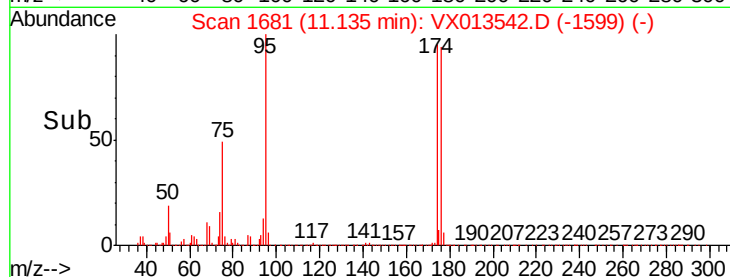
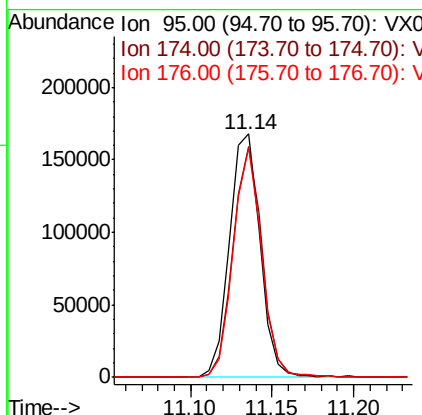
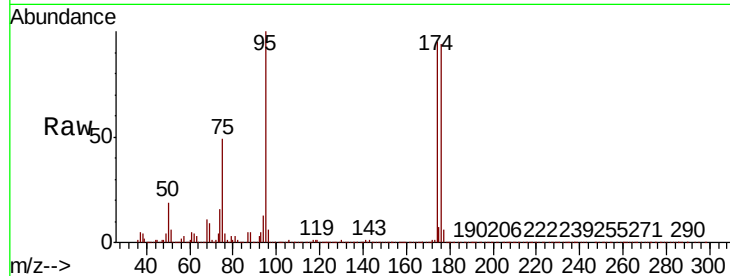




#60
4-Bromofluorobenzene
Concen: 27.183 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013542.D
Acq: 22 Nov 2019 18:41

Instrument :
MSVOA_X
ClientSampled :
14B-4

Tot Ion	95	Resp	219	216
Ion Ratio	Lower	Upper		
95	100			
174	90.3	70.2	105.2	
176	87.6	68.3	102.5	



#63
Toluene-d8
Concen: 30.172 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013542.D
Acq: 22 Nov 2019 18:41

Tgt Ion	98	Resp	684	566
Ion Ratio	Lower	Upper		
98	100			
100	65.7	52.5	78.7	

