

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013415.D
 Acq On : 14 Nov 2019 12:29
 Operator : JC/SP
 Sample : K5834-02 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 15 00:54:21 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	106099	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	590285	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	520201	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		6.05	65	231374	29.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.43%	
60) 4-Bromofluorobenzene		11.14	95	233816	27.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.20%	
63) Toluene-d8		8.71	98	703571	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%	

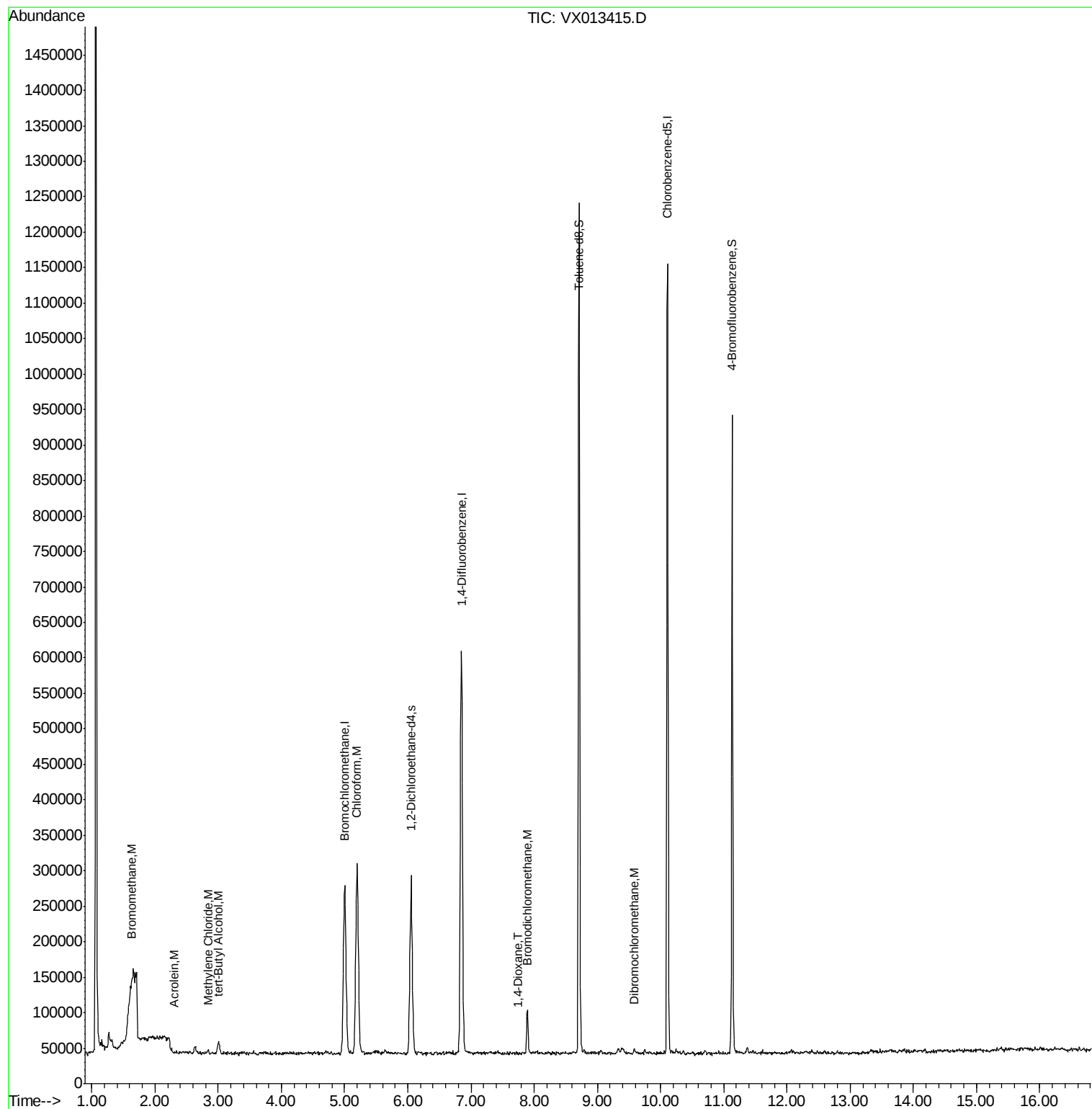
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Bromomethane	1.62	94	1803	0.305	ug/l	82
13) Acrolein	2.29	56	326	0.267	ug/l	93
18) Methylene Chloride	2.84	84	1959	0.263	ug/l #	86
23) tert-Butyl Alcohol	3.00	59	7598	3.739	ug/l #	98
25) Chloroform	5.20	83	309443	25.001	ug/l	96
41) Bromodichloromethane	7.89	83	39558	4.306	ug/l	94
45) 1,4-Dioxane	7.73	88	184	0.955	ug/l #	1
53) Dibromochloromethane	9.57	129	2882	0.391	ug/l	92

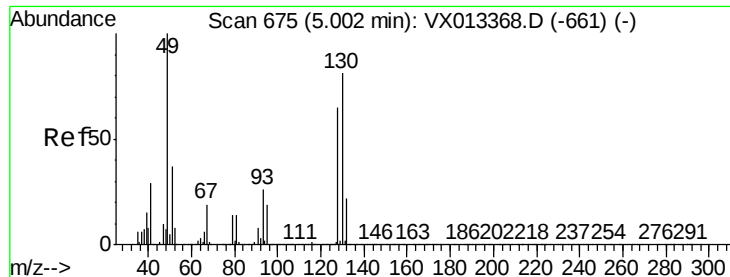
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX013415.D

Acq: 14 Nov 2019 12:29

Instrument :
MSVOA_X
ClientSampleId :

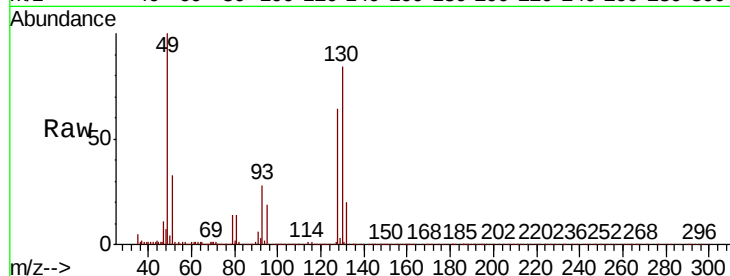
Tot Ion:128 Resp: 106099

Ion Ratio Lower Upper

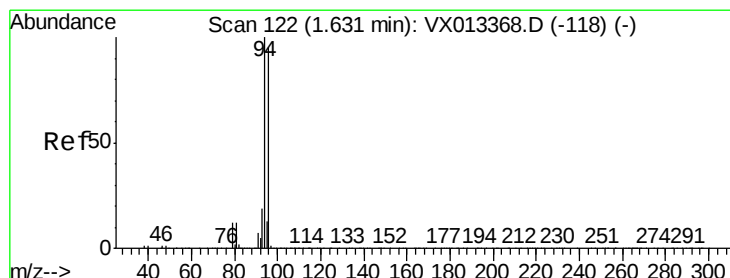
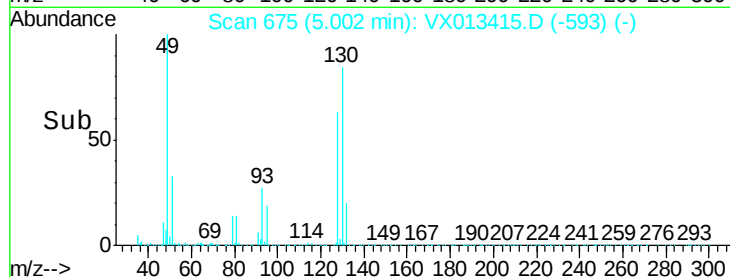
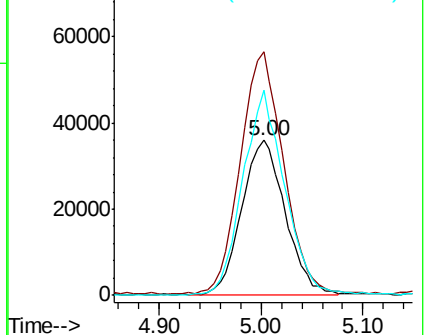
128 100

49 156.1 0.0 388.3

130 127.8 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



#5

Bromomethane

Concen: 0.305 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.01 min

Lab File: VX013415.D

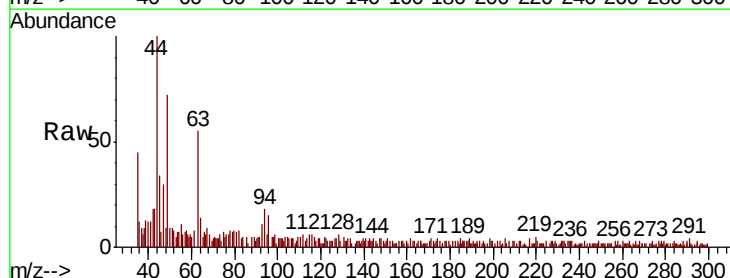
Acq: 14 Nov 2019 12:29

Tgt Ion: 94 Resp: 1803

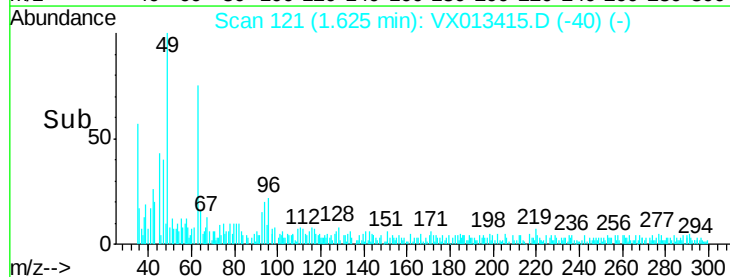
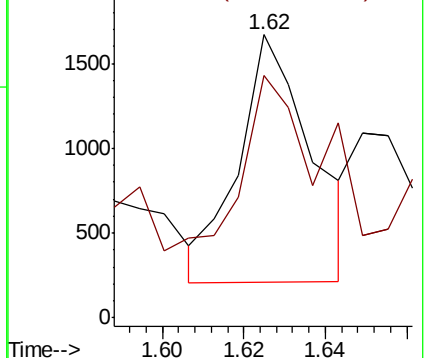
Ion Ratio Lower Upper

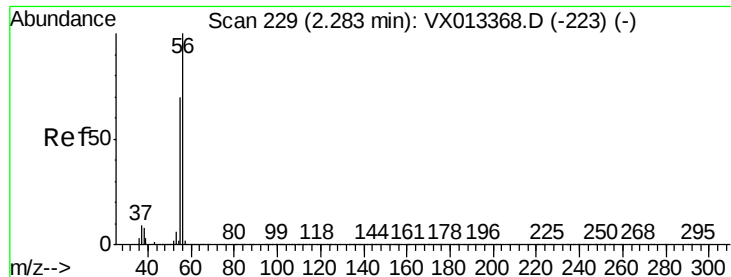
94 100

96 77.1 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0
Ion 96.00 (95.70 to 96.70): VX0

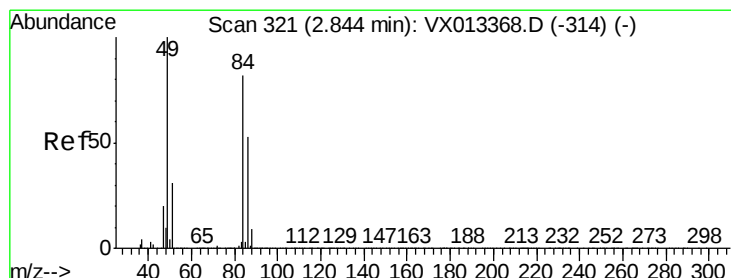
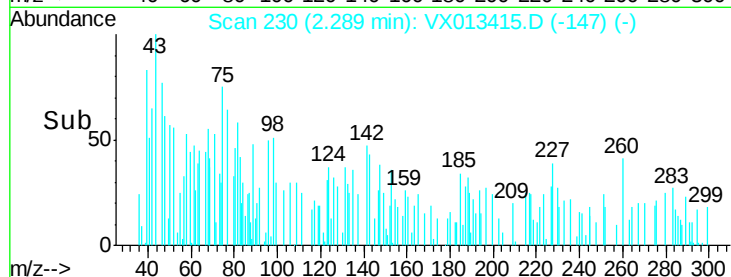
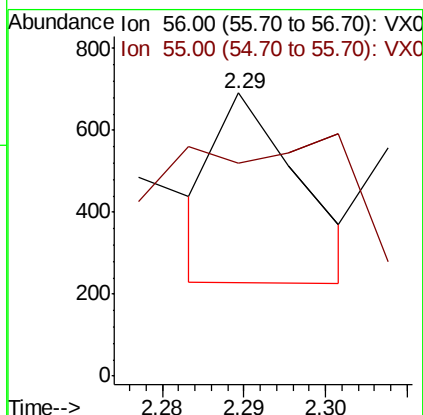
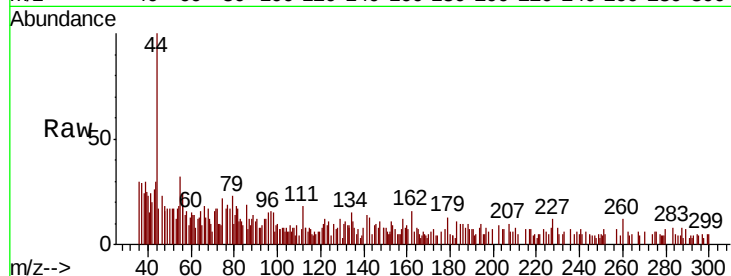




#13
Acrolein
Concen: 0.267 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013415.D
Acq: 14 Nov 2019 12:29

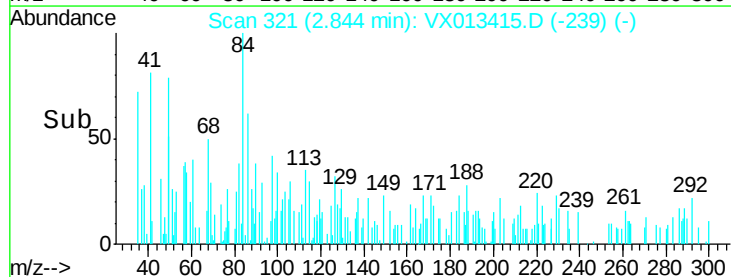
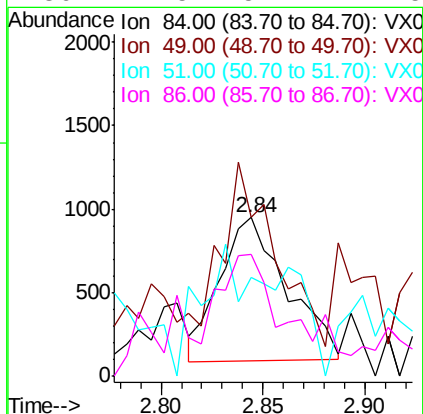
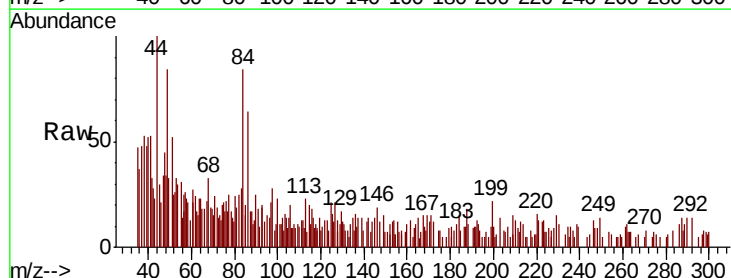
Instrument :
MSVOA_X
ClientSampled :

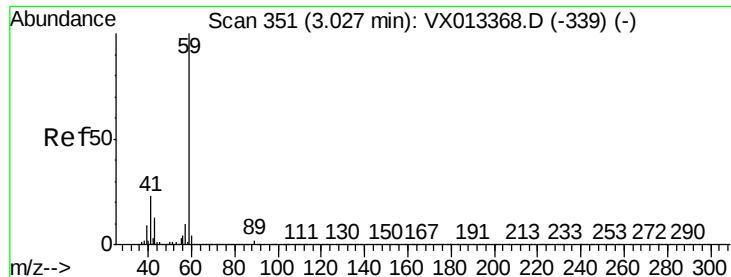
Tot Ion: 56 Resp: 326
Ion Ratio Lower Upper
56 100
55 63.8 55.8 83.8



#18
Methylene Chloride
Concen: 0.263 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013415.D
Acq: 14 Nov 2019 12:29

Tgt Ion: 84 Resp: 1959
Ion Ratio Lower Upper
84 100
49 116.9 96.8 145.2
51 70.4 30.0 45.0#
86 71.5 51.7 77.5



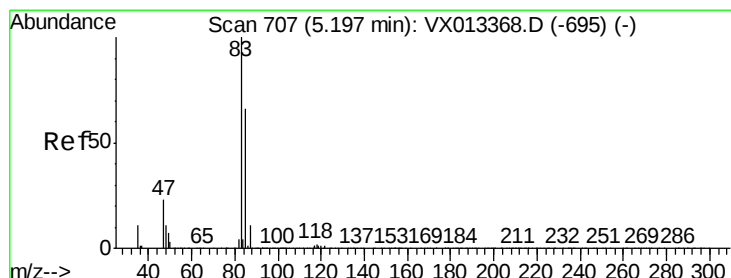
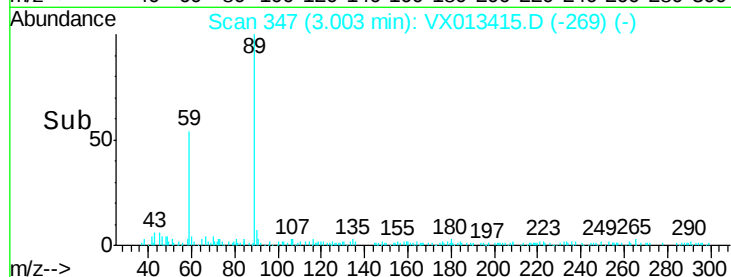
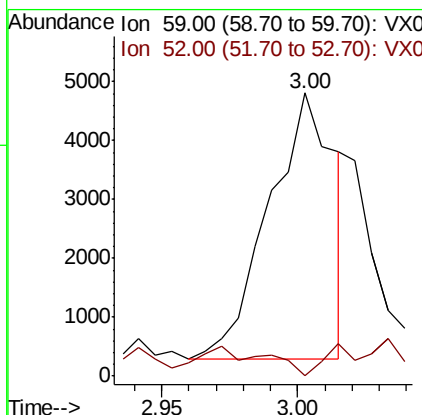
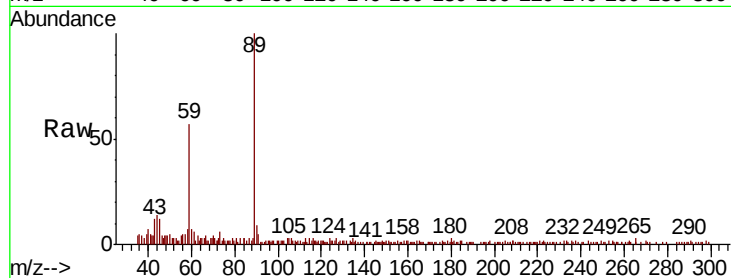


#23

tert-Butyl Alcohol
 Concen: 3.739 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.02 min
 Lab File: VX013415.D
 Acq: 14 Nov 2019 12:29

Instrument :
 MSVOA_X
 ClientSampleId :

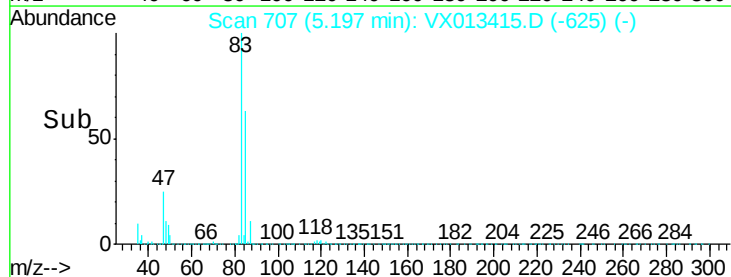
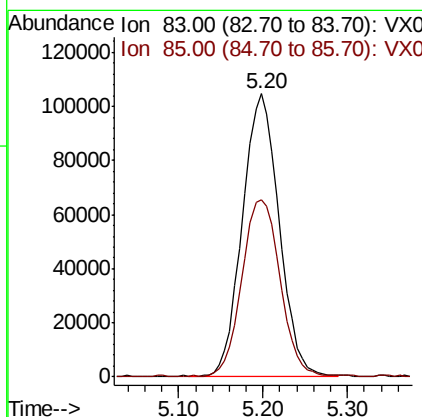
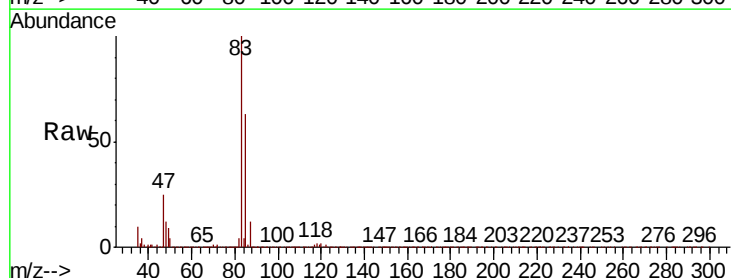
Tot Ion: 59 Resp: 7598
 Ion Ratio Lower Upper
 59 100
 52 5.1 0.1 0.1#

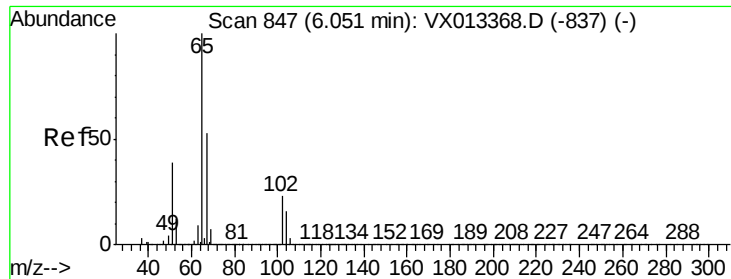


#25

Chloroform
 Concen: 25.001 ug/l
 RT: 5.20 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VX013415.D
 Acq: 14 Nov 2019 12:29

Tgt Ion: 83 Resp: 309443
 Ion Ratio Lower Upper
 83 100
 85 62.7 52.4 78.6





#27

1,2-Dichloroethane-d4

Concen: 29.532 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013415.D

Acq: 14 Nov 2019 12:29

Instrument :

MSVOA_X

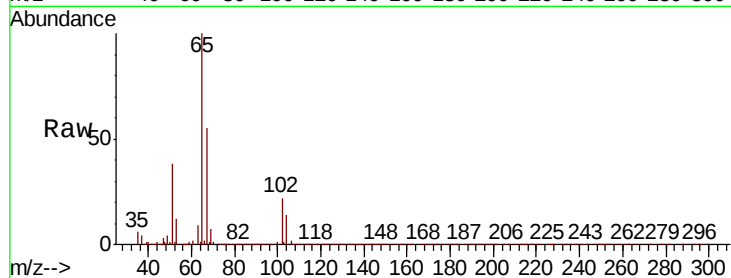
ClientSampleId :

Tot Ion: 65 Resp: 231374

Ion Ratio Lower Upper

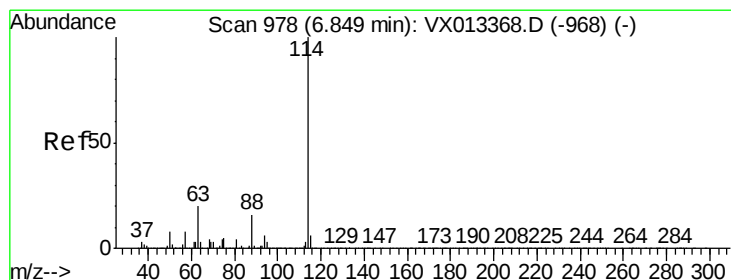
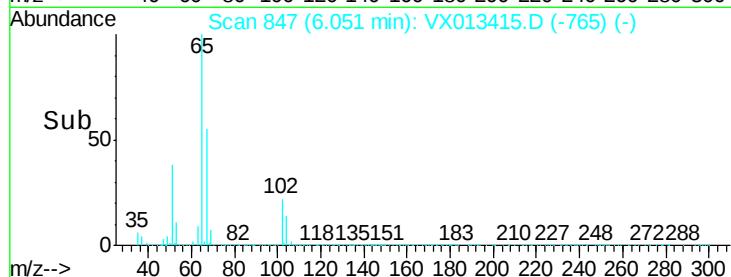
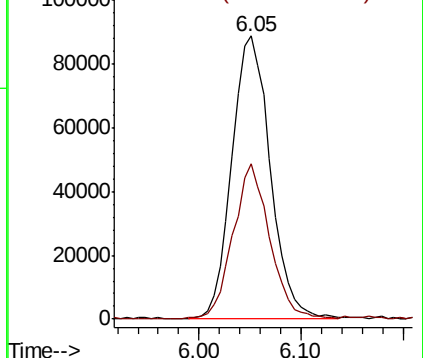
65 100

67 52.0 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: VX013415.D

Acq: 14 Nov 2019 12:29

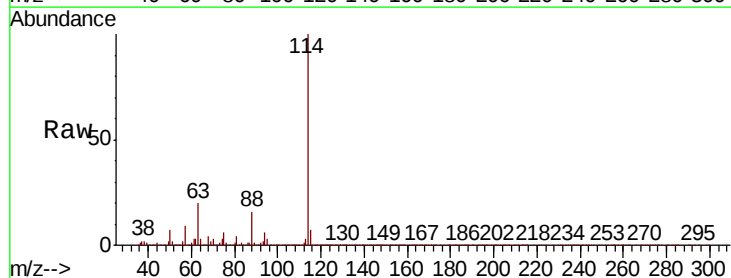
Tgt Ion: 114 Resp: 590285

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

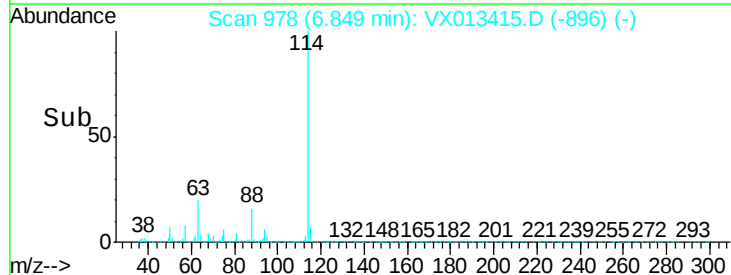
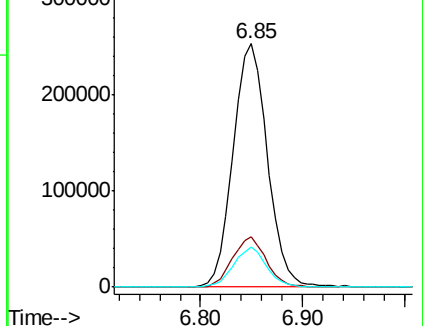
88 15.8 12.3 18.5

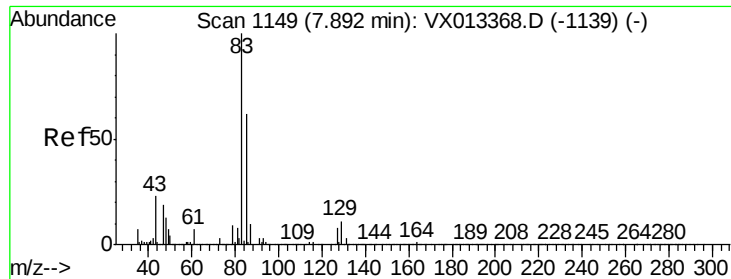


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#41

Bromodichloromethane

Concen: 4.306 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX013415.D

Acq: 14 Nov 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

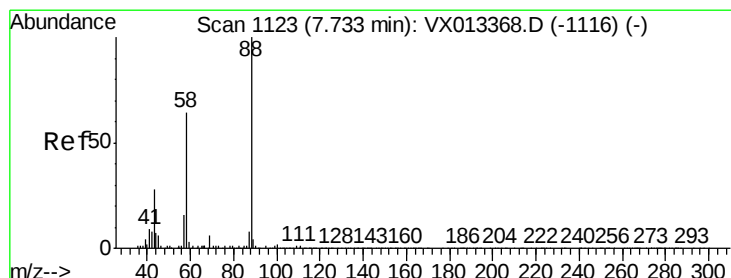
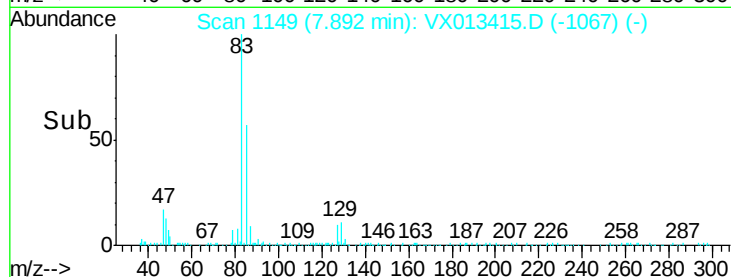
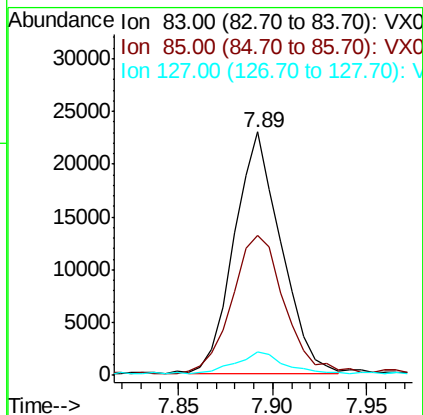
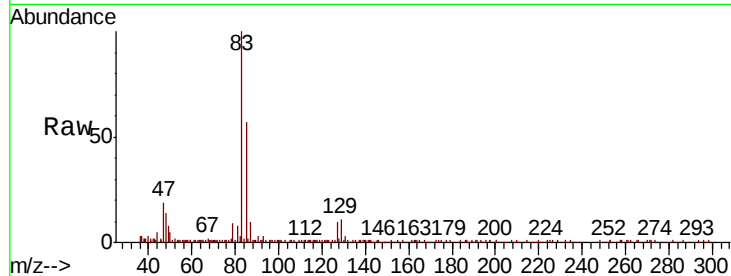
Tot Ion: 83 Resp: 39558

Ion Ratio Lower Upper

83 100

85 56.3 49.3 73.9

127 9.2 6.6 10.0



#45

1,4-Dioxane

Concen: 0.955 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX013415.D

Acq: 14 Nov 2019 12:29

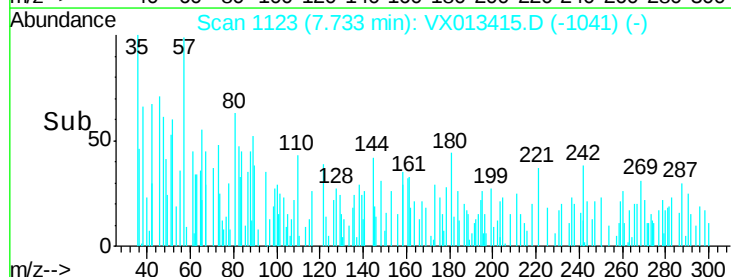
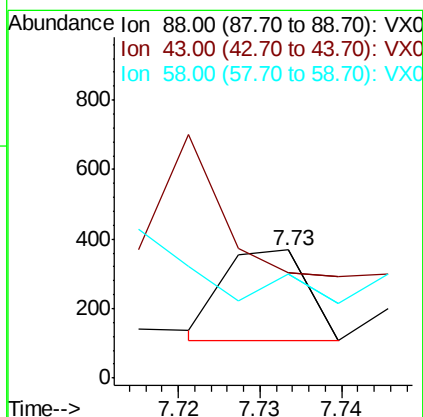
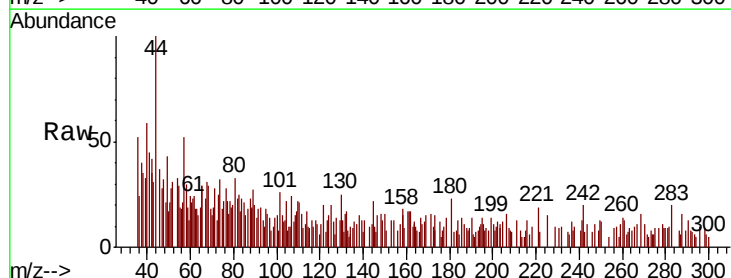
Tgt Ion: 88 Resp: 184

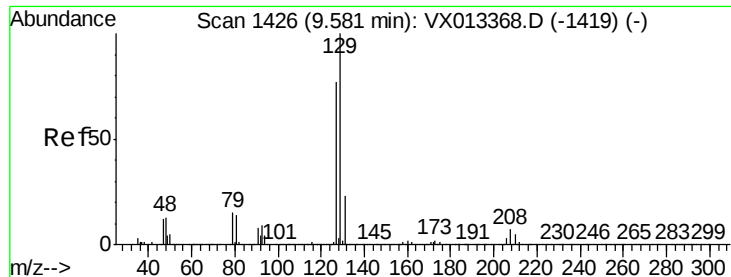
Ion Ratio Lower Upper

88 100

43 207.6 26.1 39.1#

58 220.1 55.8 83.8#





#53

Dibromochloromethane

Concen: 0.391 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. -0.01 min

Lab File: VX013415.D

Acq: 14 Nov 2019 12:29

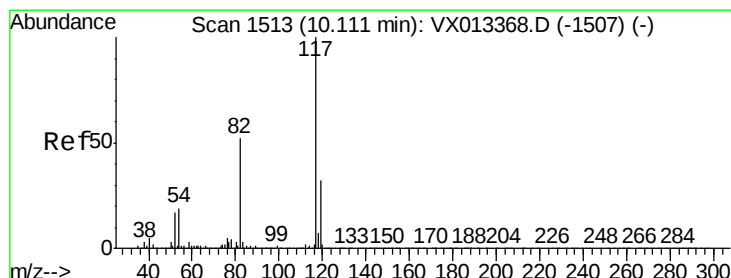
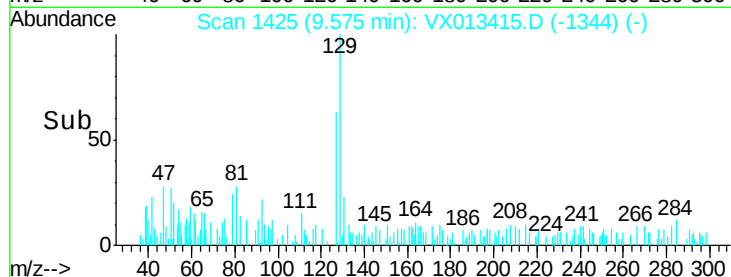
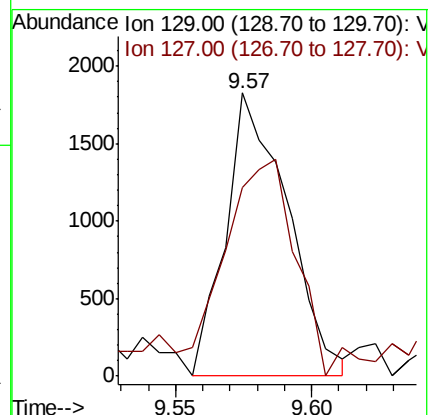
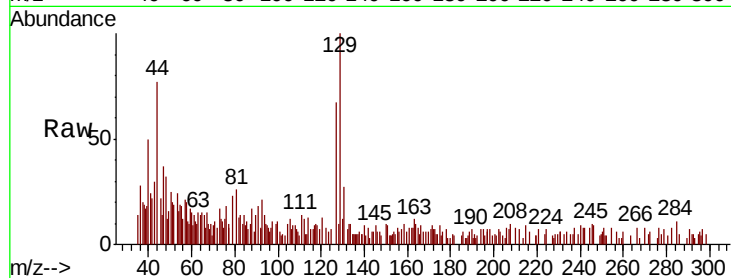
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 2882

Ion Ratio Lower Upper

129 100

127 86.7 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: VX013415.D

Acq: 14 Nov 2019 12:29

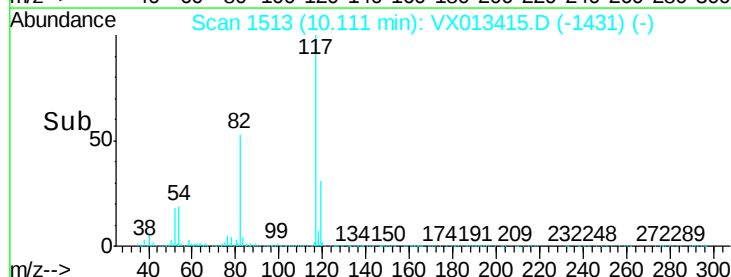
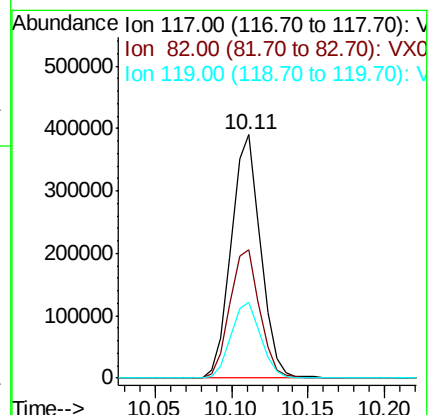
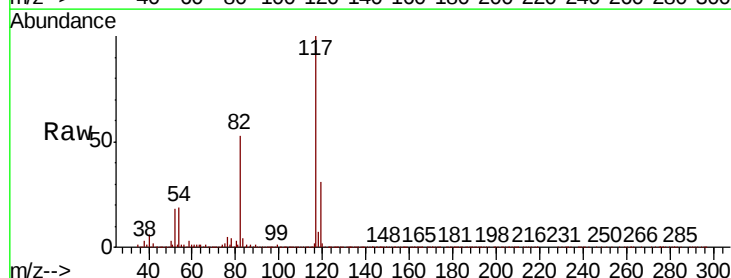
Tgt Ion:117 Resp: 520201

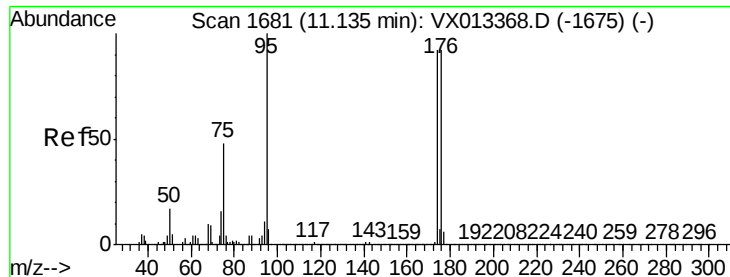
Ion Ratio Lower Upper

117 100

82 53.5 43.7 65.5

119 31.7 25.5 38.3

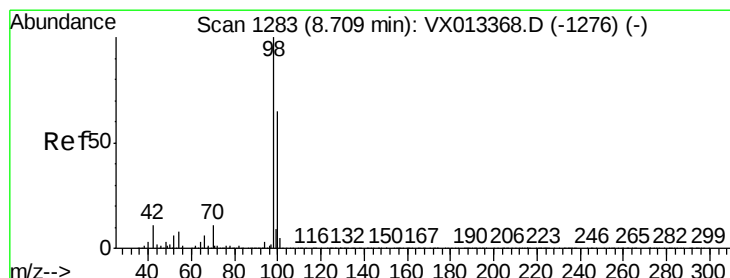
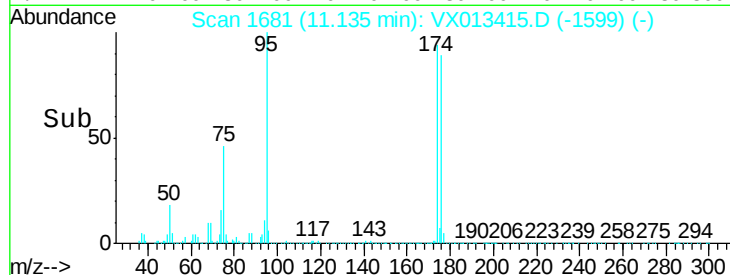
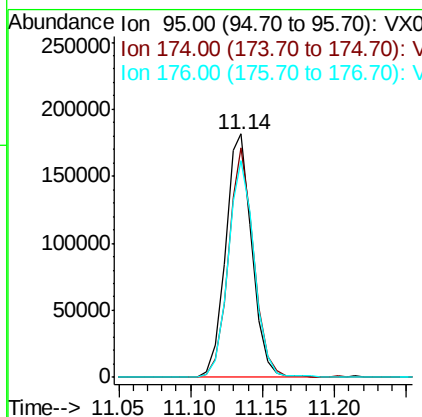
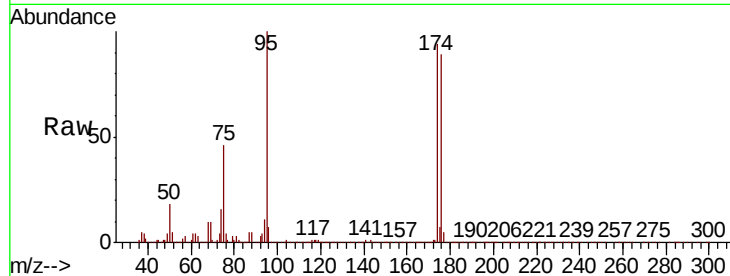




#60
4-Bromofluorobenzene
Concen: 27.965 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013415.D
Acq: 14 Nov 2019 12:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 233816
Ion Ratio Lower Upper
95 100
174 89.7 70.2 105.2
176 87.8 68.3 102.5



#63
Toluene-d8
Concen: 29.909 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013415.D
Acq: 14 Nov 2019 12:29

Tgt Ion: 98 Resp: 703571
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7

