

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013655.D
 Acq On : 27 Nov 2019 16:32
 Operator : JC/SP
 Sample : K5960-02 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 28 00:34:40 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	5.01	128	105234	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	527134	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	444340	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	223721	28.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.97%
60) 4-Bromofluorobenzene	11.13	95	200903	28.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.77%
63) Toluene-d8	8.71	98	607377	30.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.77%

Target Compounds

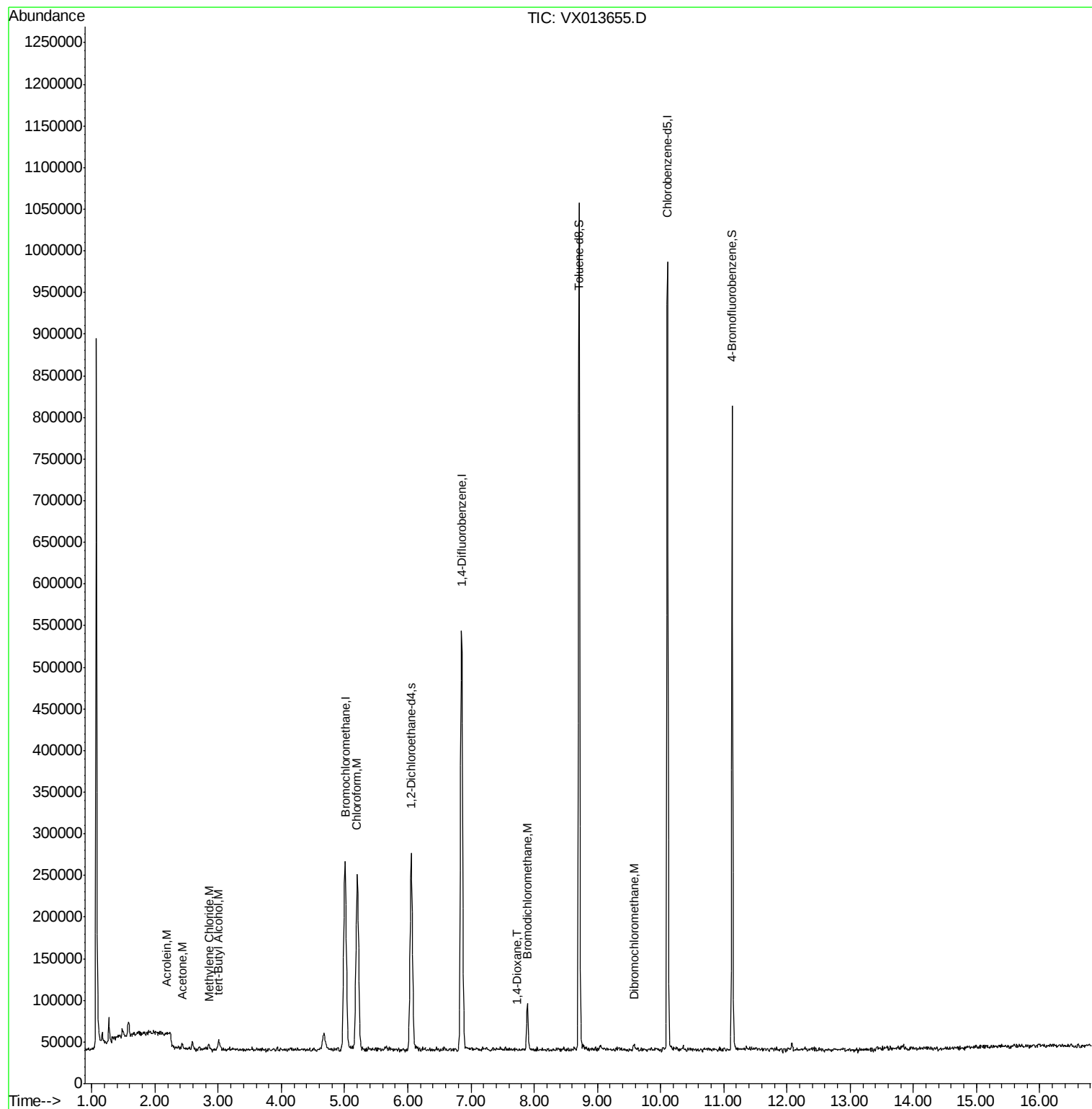
					Ovalue
13) Acrolein	2.20	56	513	0.424	ug/l 95
15) Acetone	2.44	58	1950	1.537	ug/l 97
18) Methylene Chloride	2.86	84	2490	0.338	ug/l # 68
23) tert-Butyl Alcohol	3.01	59	7406	3.675	ug/l # 99
25) Chloroform	5.20	83	253253	20.629	ug/l 99
41) Bromodichloromethane	7.89	83	38621	4.708	ug/l 90
45) 1,4-Dioxane	7.73	88	178	1.035	ug/l # 23
53) Dibromochloromethane	9.58	129	2777	0.421	ug/l 81

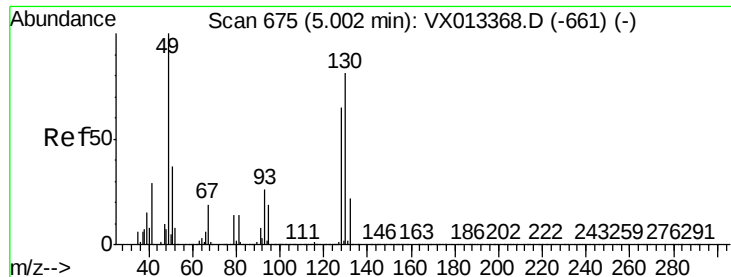
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

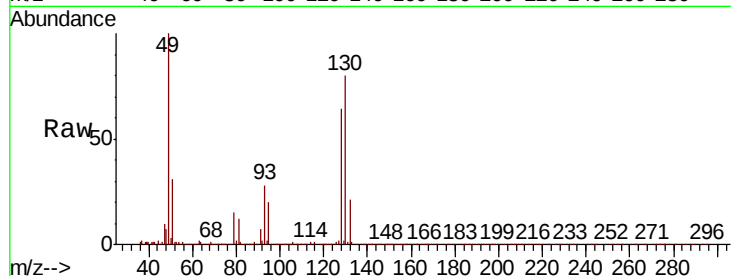
Tot Ion:128 Resp: 105234

Ion Ratio Lower Upper

128 100

49 154.5 0.0 388.3

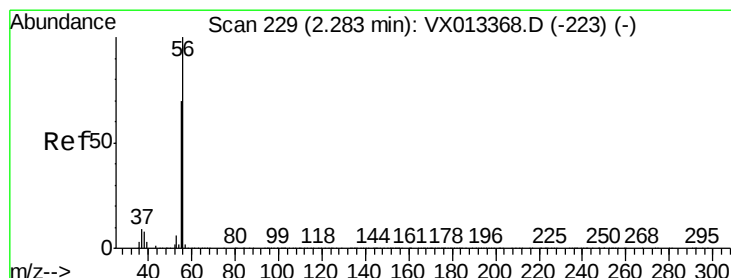
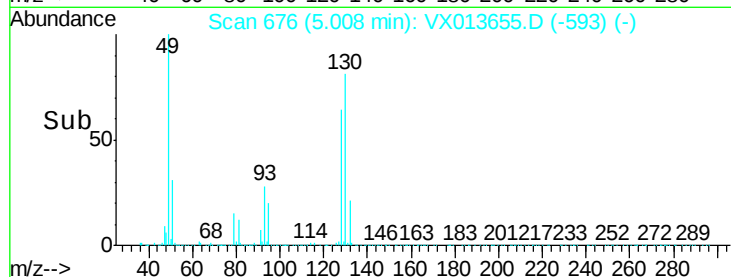
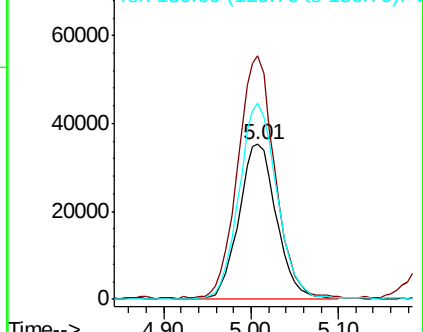
130 127.6 0.0 318.5



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: 0.424 ug/l

RT: 2.20 min Scan# 215

Delta R.T. -0.09 min

Lab File: VX013655.D

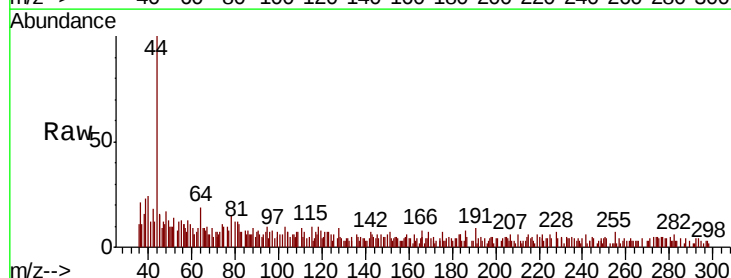
Acq: 27 Nov 2019 16:32

Tgt Ion: 56 Resp: 513

Ion Ratio Lower Upper

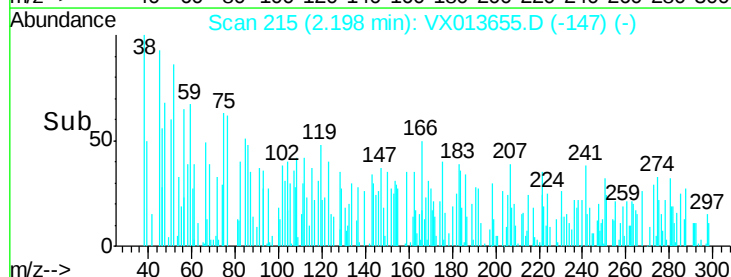
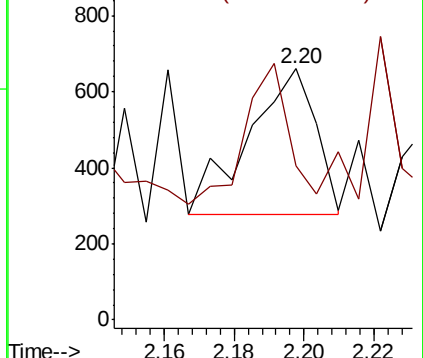
56 100

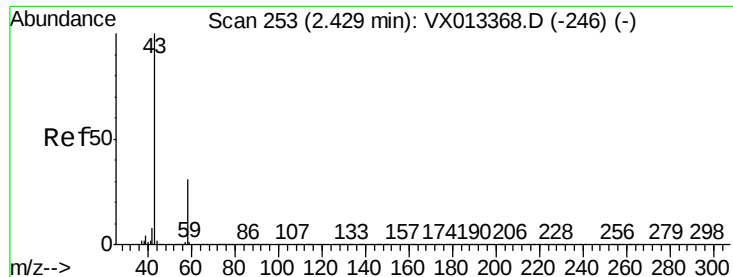
55 73.7 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 1.537 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

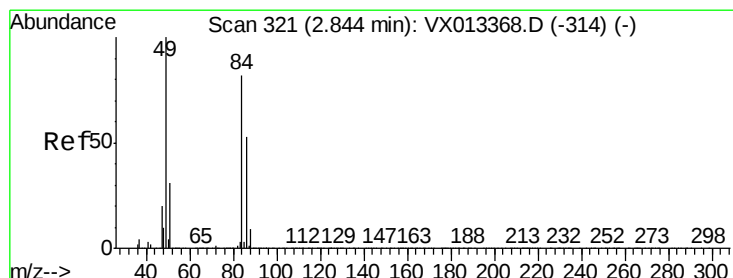
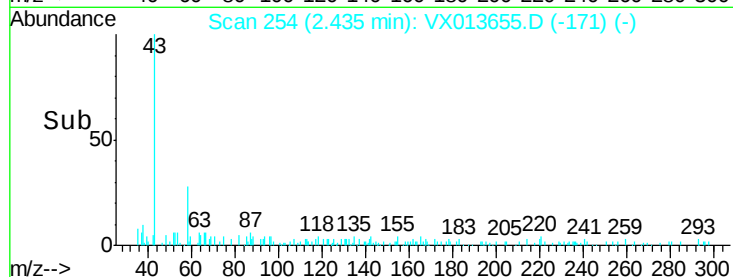
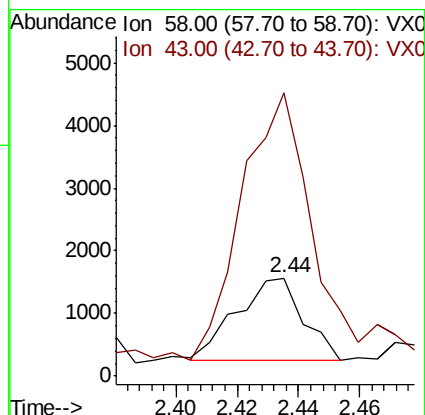
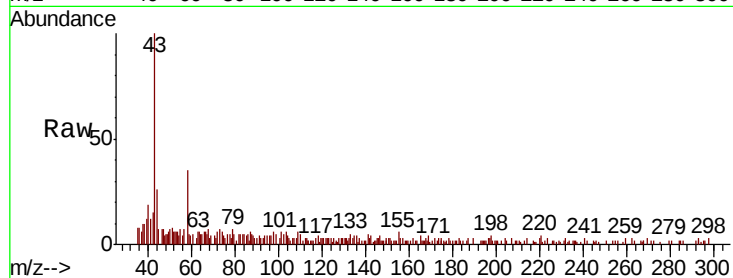
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 58 Resp: 1950

Ion Ratio Lower Upper

58 100

43 333.6 261.4 392.2



#18

Methylene Chloride

Concen: 0.338 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Tgt Ion: 84 Resp: 2490

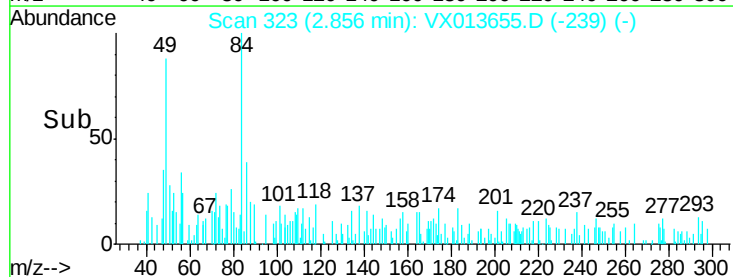
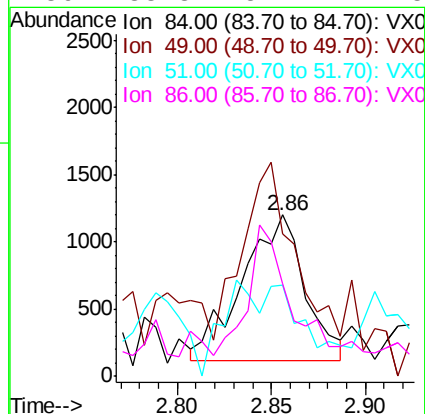
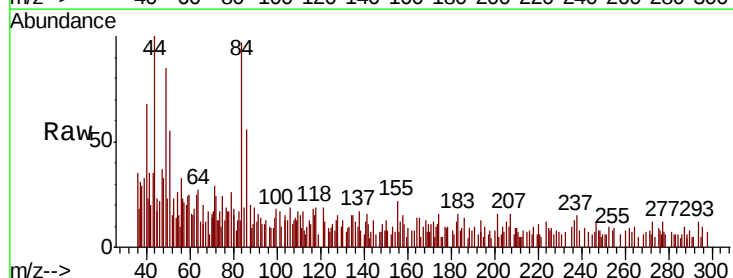
Ion Ratio Lower Upper

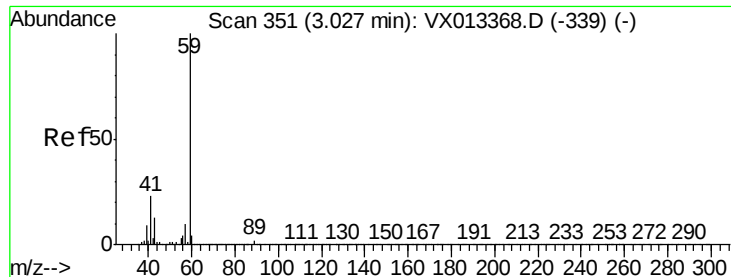
84 100

49 81.7 96.8 145.2#

51 48.9 30.0 45.0#

86 38.3 51.7 77.5#



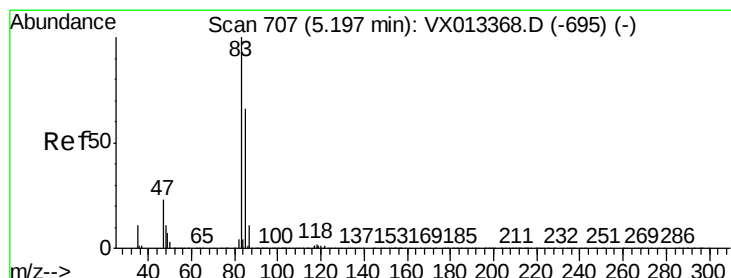
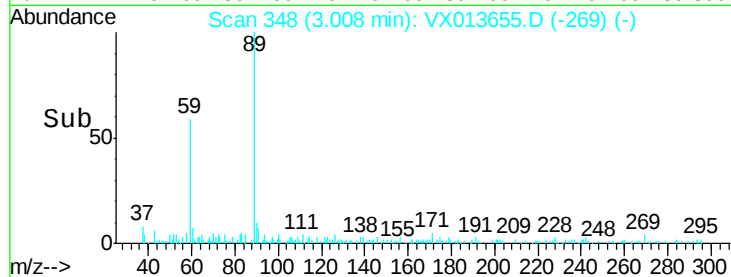
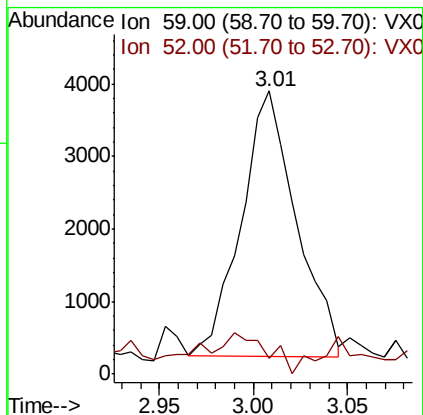
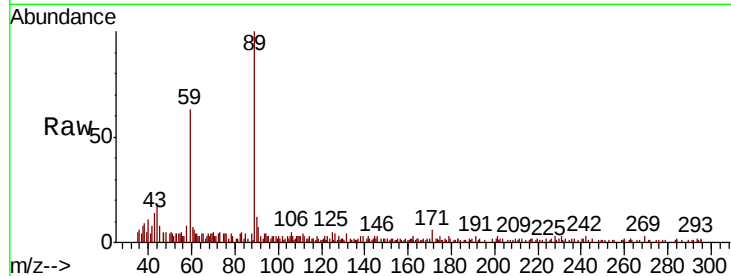


#23

tert-Butyl Alcohol
 Concen: 3.675 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VX013655.D
 Acq: 27 Nov 2019 16:32

Instrument :
 MSVOA_X
 ClientSampleId :

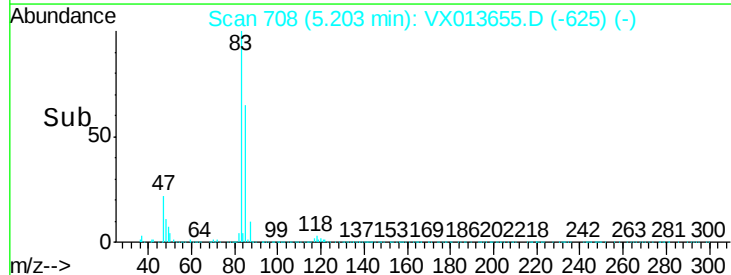
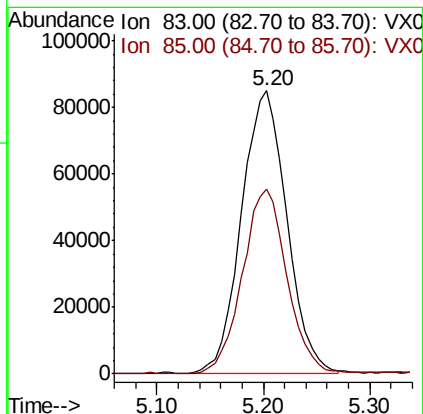
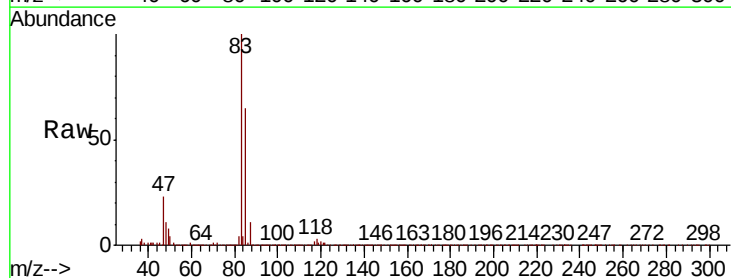
Tot Ion: 59 Resp: 7406
 Ion Ratio Lower Upper
 59 100
 52 2.1 0.1 0.1#

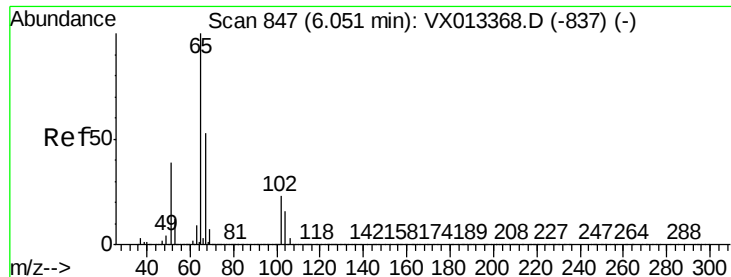


#25

Chloroform
 Concen: 20.629 ug/l
 RT: 5.20 min Scan# 708
 Delta R.T. 0.01 min
 Lab File: VX013655.D
 Acq: 27 Nov 2019 16:32

Tgt Ion: 83 Resp: 253253
 Ion Ratio Lower Upper
 83 100
 85 64.9 52.4 78.6





#27

1,2-Dichloroethane-d4

Concen: 28.790 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

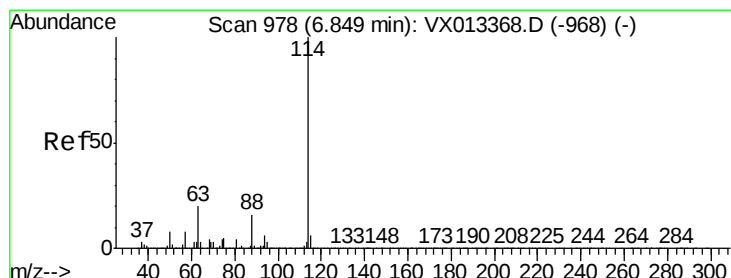
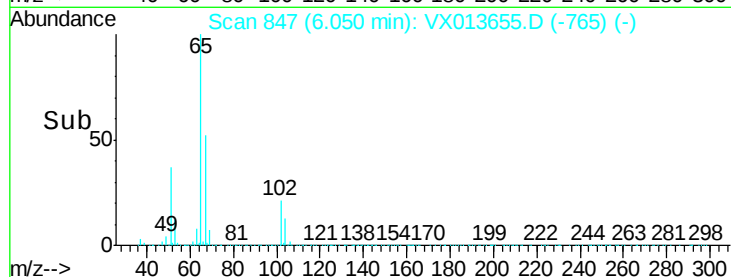
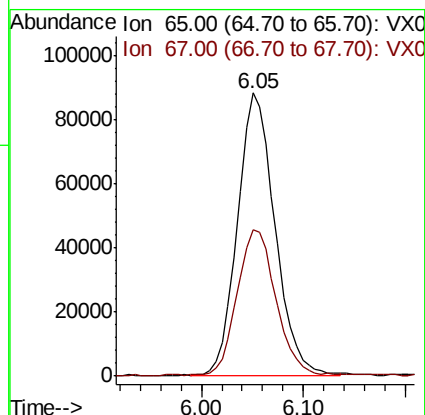
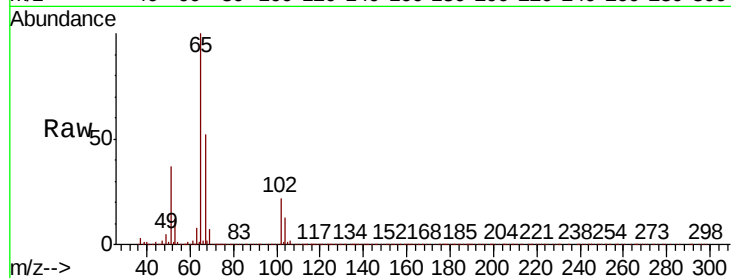
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 223721

Ion Ratio Lower Upper

65 100

67 52.6 41.0 61.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

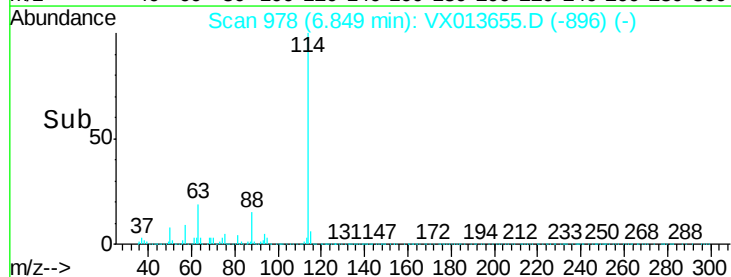
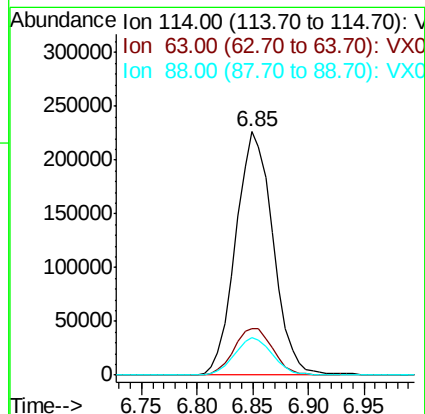
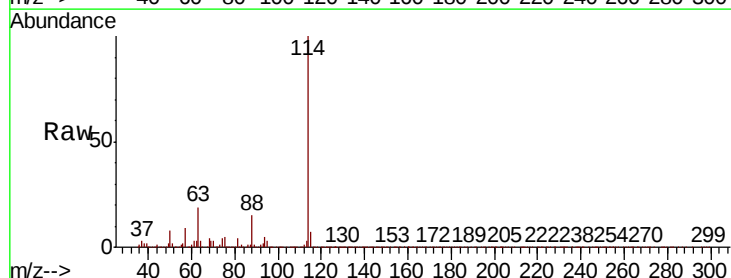
Tgt Ion: 114 Resp: 527134

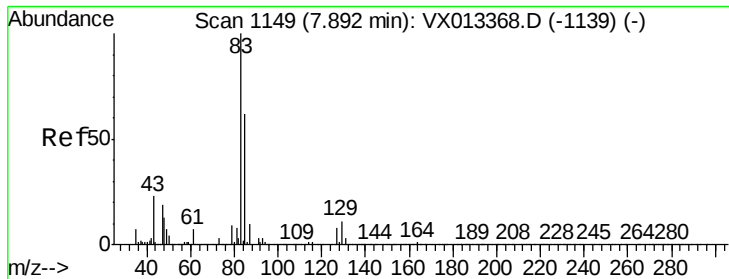
Ion Ratio Lower Upper

114 100

63 19.8 16.1 24.1

88 15.5 12.3 18.5





#41

Bromodichloromethane

Concen: 4.708 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampled :

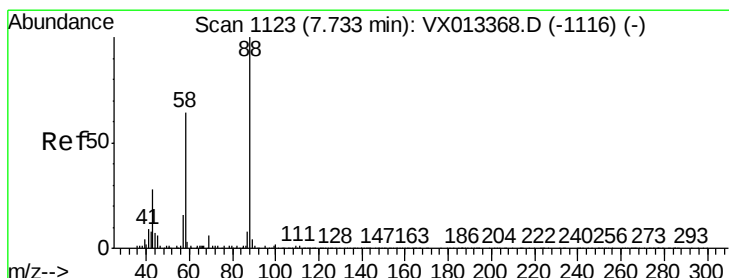
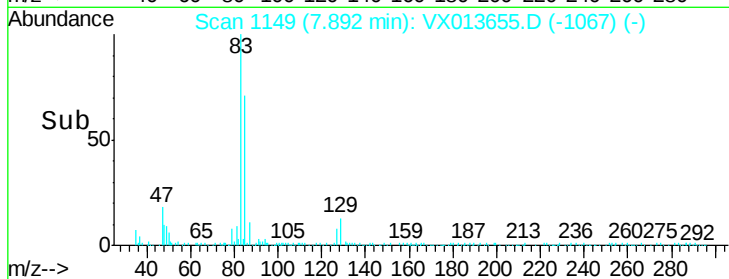
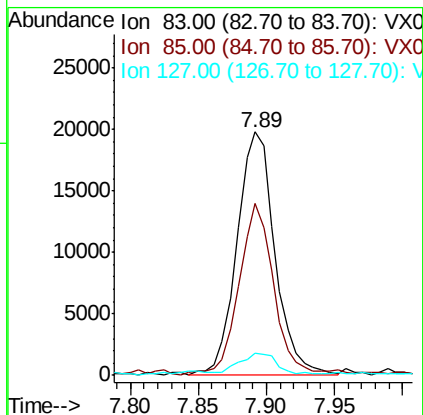
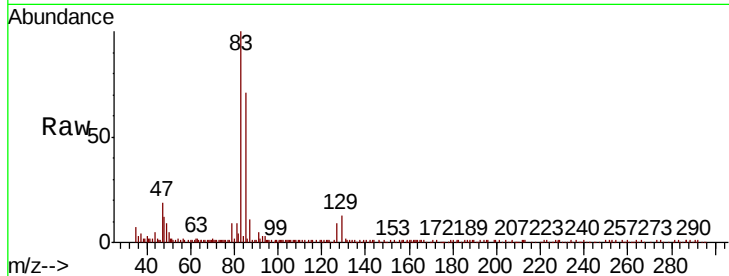
Tot Ion: 83 Resp: 38621

Ion Ratio Lower Upper

83 100

85 69.9 49.3 73.9

127 8.2 6.6 10.0



#45

1,4-Dioxane

Concen: 1.035 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

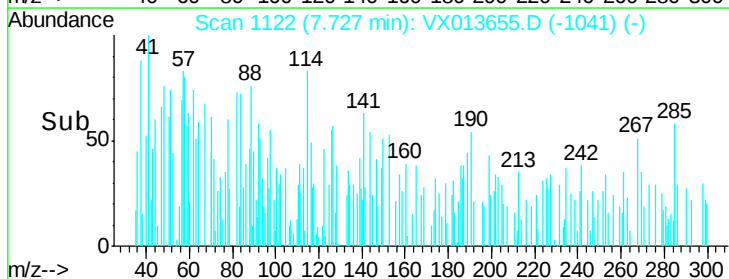
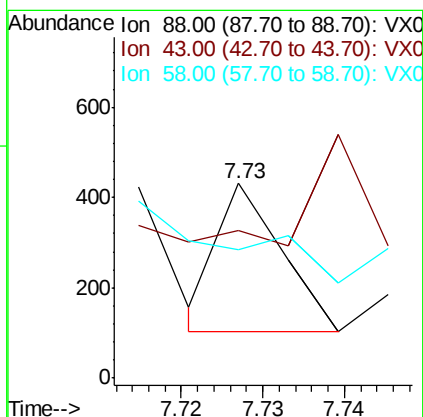
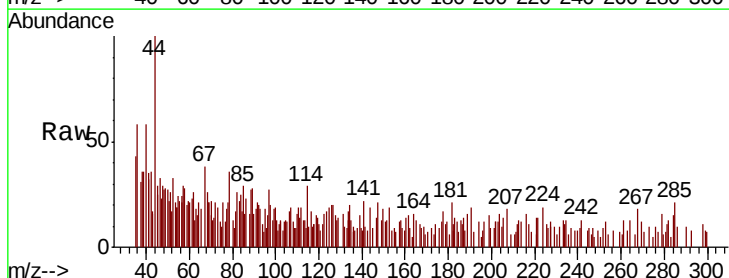
Tgt Ion: 88 Resp: 178

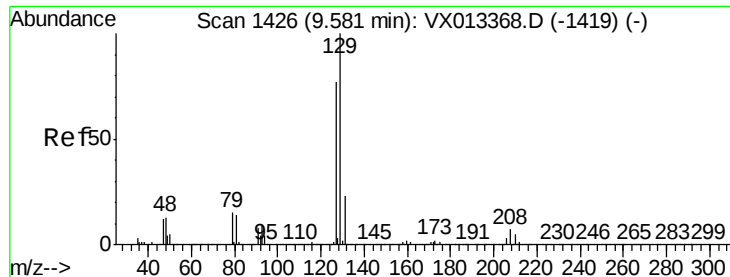
Ion Ratio Lower Upper

88 100

43 0.0 26.1 39.1#

58 0.0 55.8 83.8#

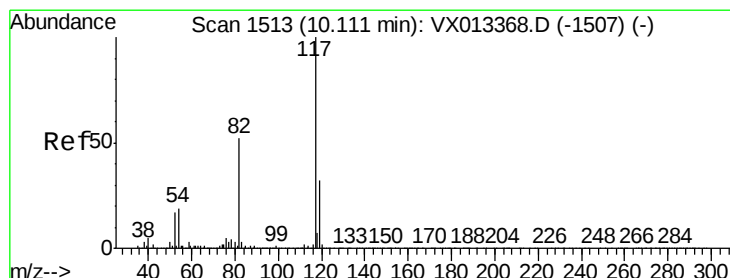
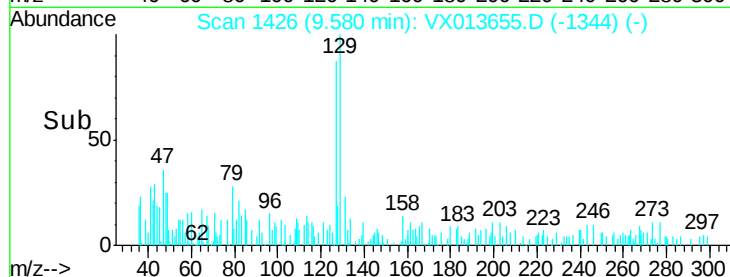
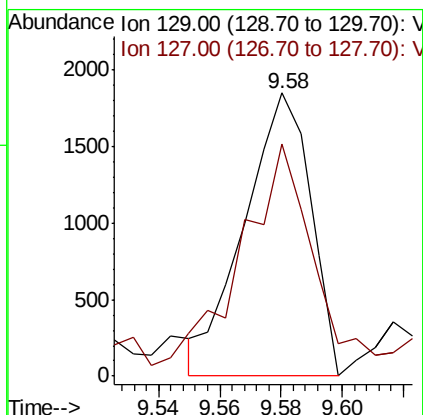
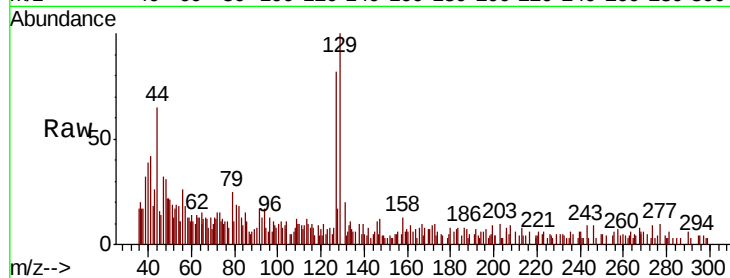




#53
Dibromochloromethane
Concen: 0.421 ug/l
RT: 9.58 min Scan# 1426
Delta R.T. -0.00 min
Lab File: VX013655.D
Acq: 27 Nov 2019 16:32

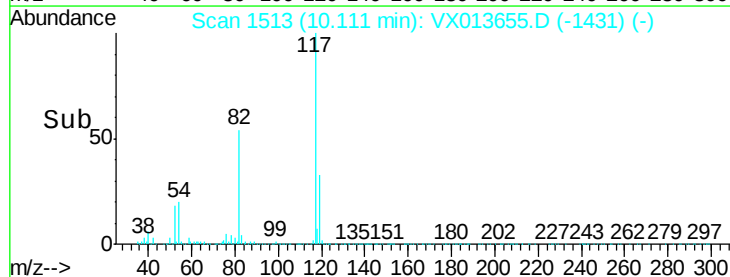
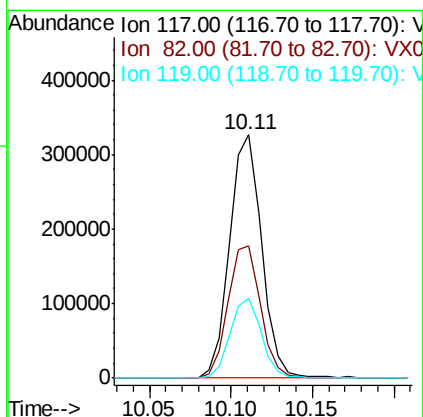
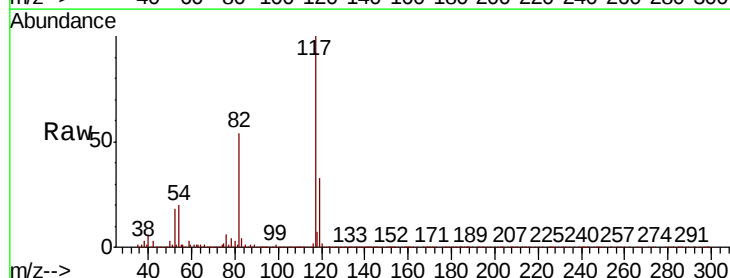
Instrument :
MSVOA_X
ClientSampleId :

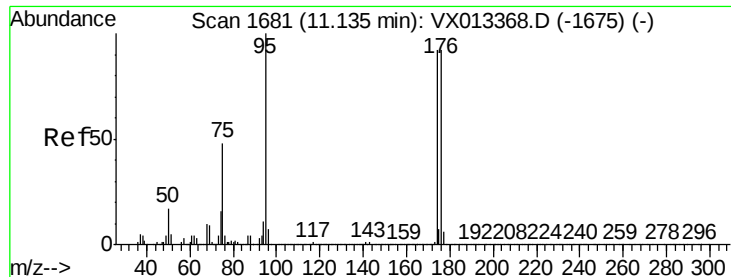
Tot Ion:129 Resp: 2777
Ion Ratio Lower Upper
129 100
127 62.7 39.6 119.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013655.D
Acq: 27 Nov 2019 16:32

Tgt Ion:117 Resp: 444340
Ion Ratio Lower Upper
117 100
82 55.3 43.7 65.5
119 32.5 25.5 38.3





#60

4-Bromofluorobenzene

Concen: 28.131 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013655.D

Acq: 27 Nov 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

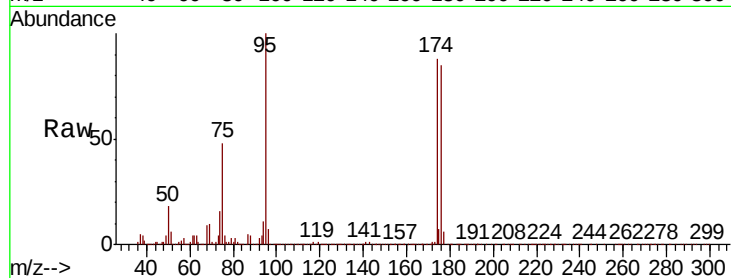
Tot Ion: 95 Resp: 200903

Ion Ratio Lower Upper

95 100

174 90.0 70.2 105.2

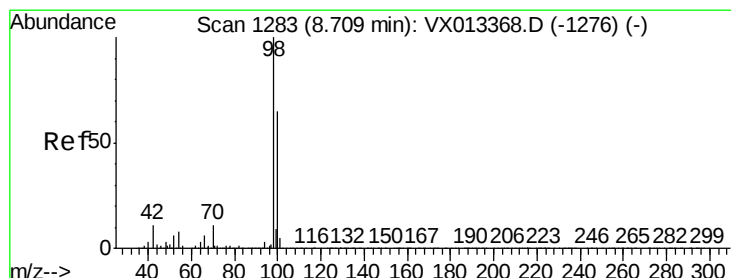
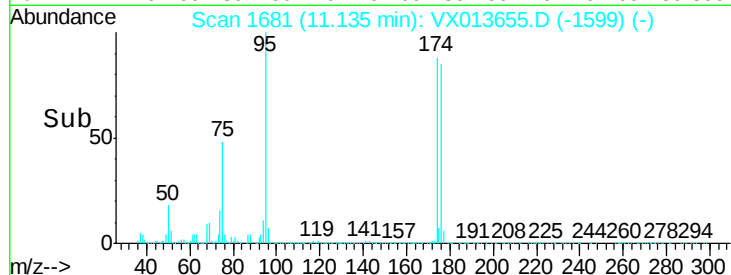
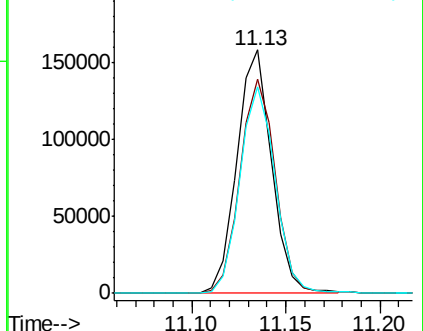
176 86.8 68.3 102.5



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 30.228 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013655.D

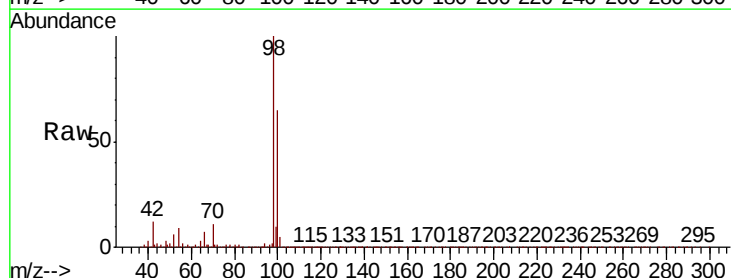
Acq: 27 Nov 2019 16:32

Tgt Ion: 98 Resp: 607377

Ion Ratio Lower Upper

98 100

100 65.8 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

