

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\
 Data File : VX014076.D
 Acq On : 18 Dec 2019 02:37
 Operator : JC/SP
 Sample : K6353-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-013-IDWGW-20191216

Quant Time: Dec 18 07:23:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	86982	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	468825	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	409977	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	186132	29.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.60%
60) 4-Bromofluorobenzene	11.14	95	169786	25.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.50%
63) Toluene-d8	8.71	98	568093	31.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.33%

Target Compounds

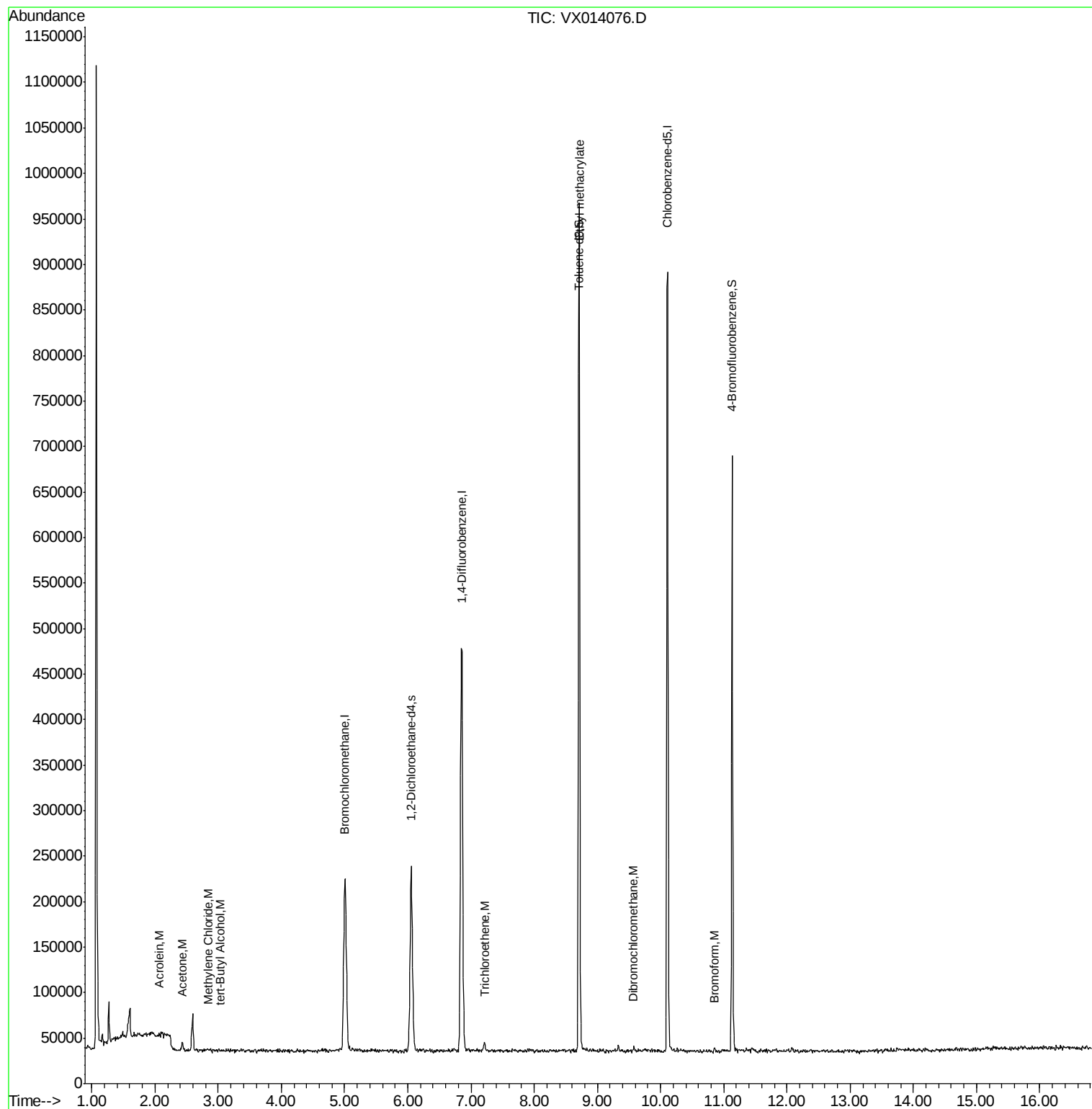
					Ovalue
13) Acrolein	2.06	56	339	0.371 ug/l	90
15) Acetone	2.43	58	3457	3.992 ug/l #	69
18) Methylene Chloride	2.85	84	1273	0.213 ug/l #	48
23) tert-Butyl Alcohol	3.03	59	481	0.416 ug/l #	41
37) Trichloroethene	7.22	130	3931	0.684 ug/l	82
51) Ethyl methacrylate	8.72	69	2242	0.261 ug/l	91
53) Dibromochloromethane	9.58	129	2389	0.442 ug/l	92
56) Bromoform	10.85	173	1833	0.435 ug/l #	94

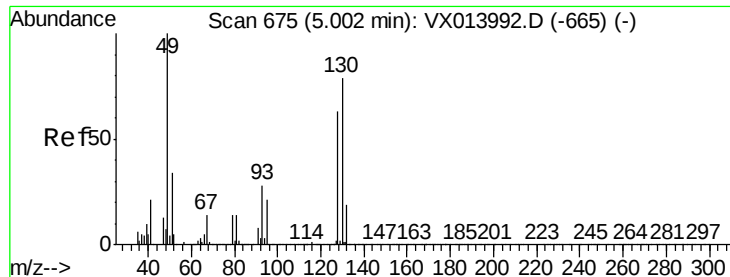
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :
TT-013-IDWGW-20191216

Quant Time: Dec 18 07:23:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 13 01:35:34 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: VX014076.D

Acq: 18 Dec 2019 02:37

Instrument :

MSVOA_X

ClientSampleId :

TT-013-IDW/GW-20191216

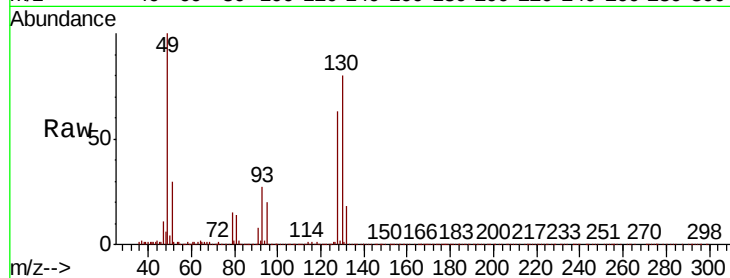
Tot Ion:128 Resp: 86982

Ion Ratio Lower Upper

128 100

49 158.1 0.0 405.0

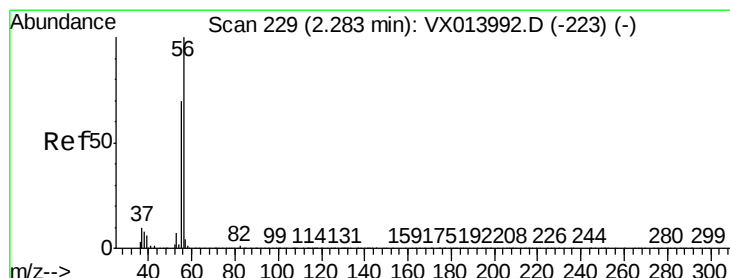
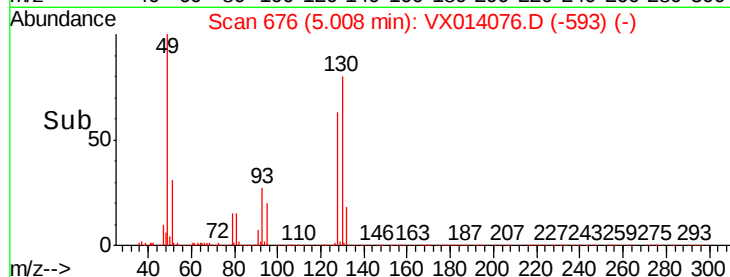
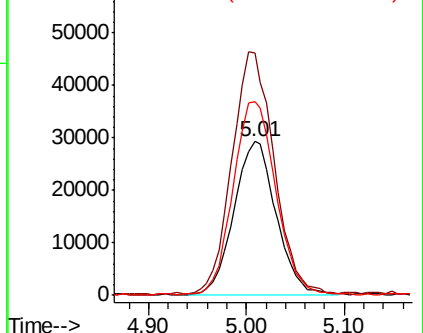
130 130.2 0.0 321.5



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: 0.371 ug/l

RT: 2.06 min Scan# 193

Delta R.T. -0.22 min

Lab File: VX014076.D

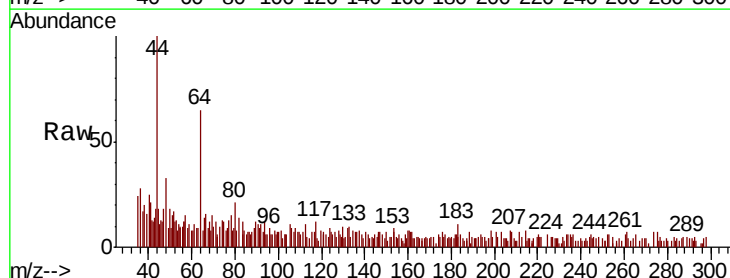
Acq: 18 Dec 2019 02:37

Tgt Ion: 56 Resp: 339

Ion Ratio Lower Upper

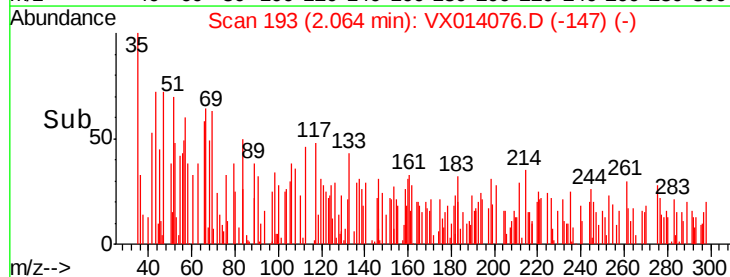
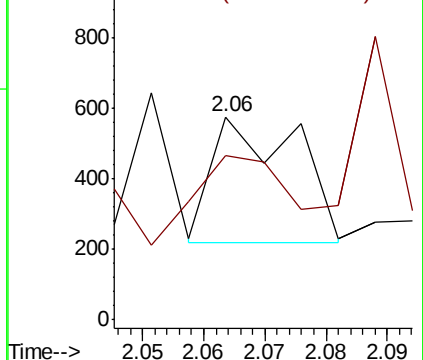
56 100

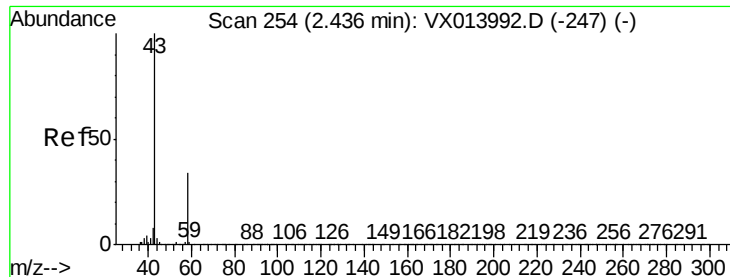
55 76.7 54.9 82.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 3.992 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014076.D

Acq: 18 Dec 2019 02:37

Instrument :

MSVOA_X

ClientSampleId :

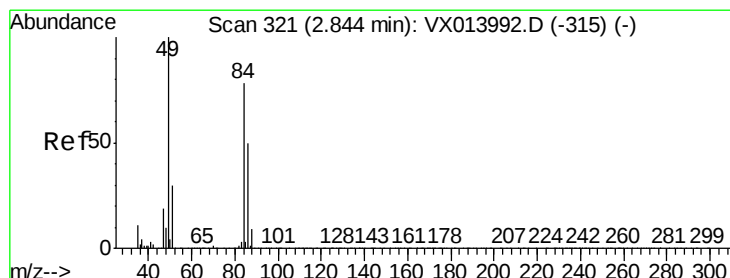
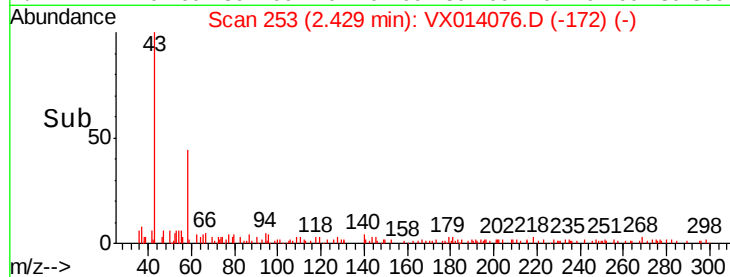
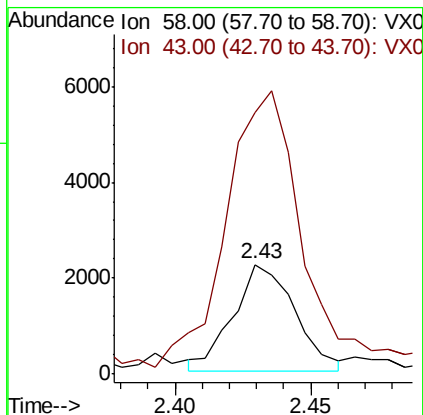
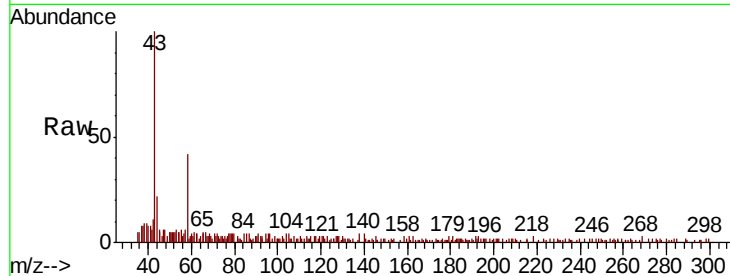
TT-013-IDWGW-20191216

Tot Ion: 58 Resp: 3457

Ion Ratio Lower Upper

58 100

43 235.3 236.3 354.5#



#18

Methylene Chloride

Concen: 0.213 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX014076.D

Acq: 18 Dec 2019 02:37

Tgt Ion: 84 Resp: 1273

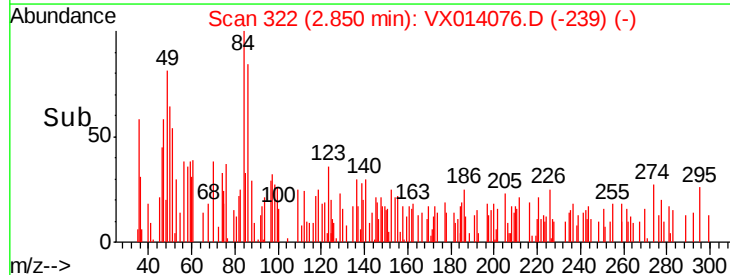
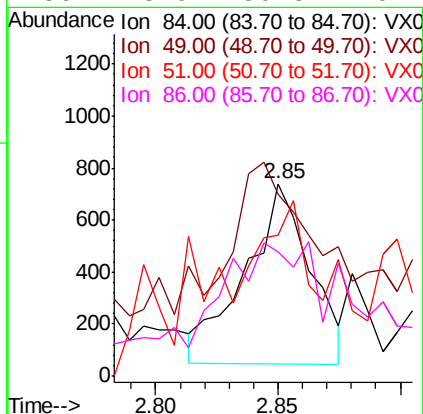
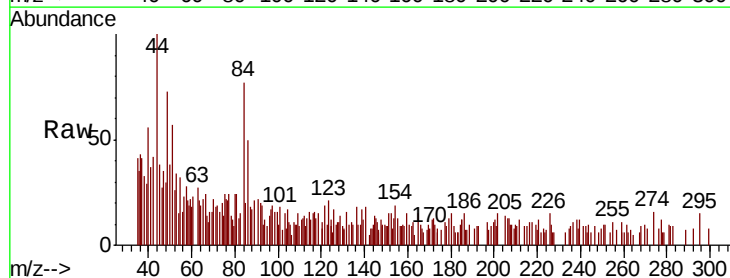
Ion Ratio Lower Upper

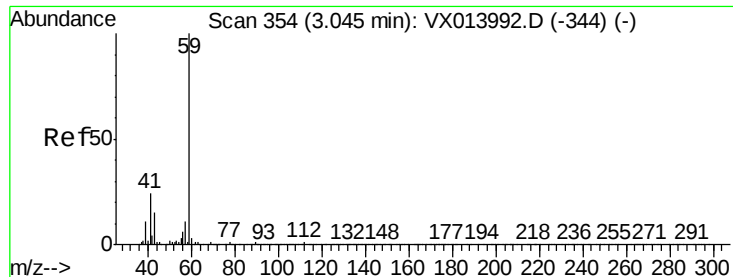
84 100

49 47.5 102.2 153.2#

51 16.2 31.4 47.0#

86 43.9 50.8 76.2#



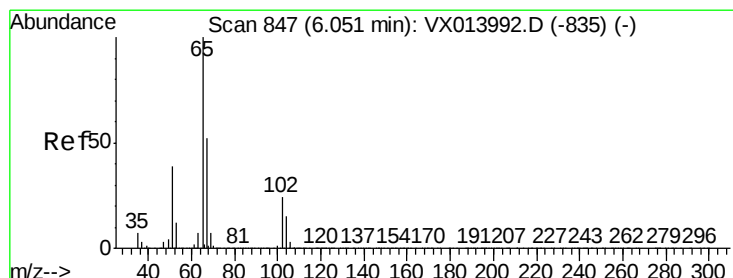
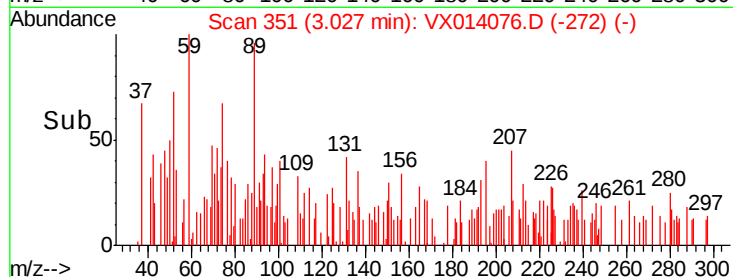
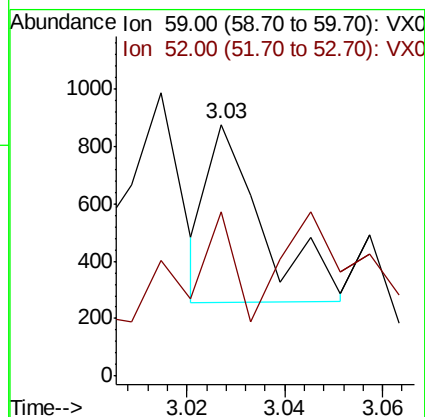
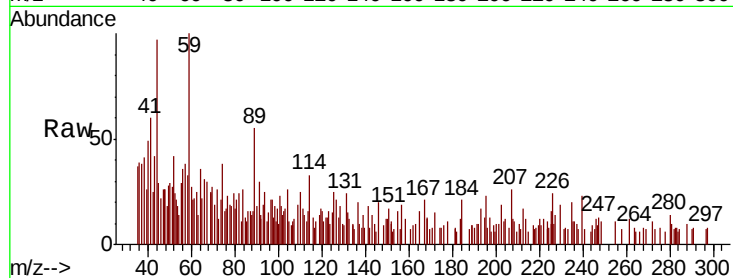


#23

tert-Butyl Alcohol
Concen: 0.416 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.02 min
Lab File: VX014076.D
Acq: 18 Dec 2019 02:37

Instrument :
MSVOA_X
ClientSampleId :
TT-013-IDW/GW-20191216

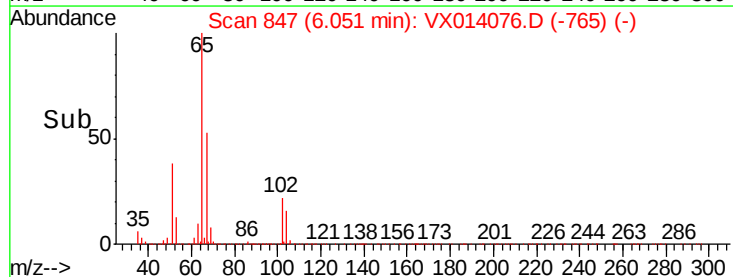
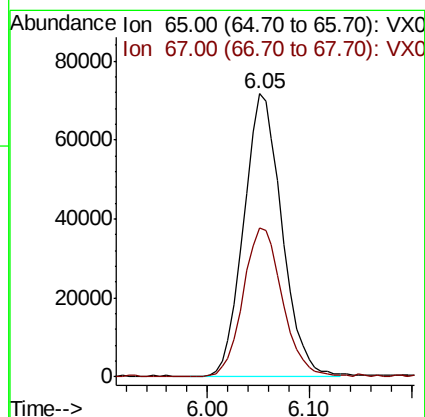
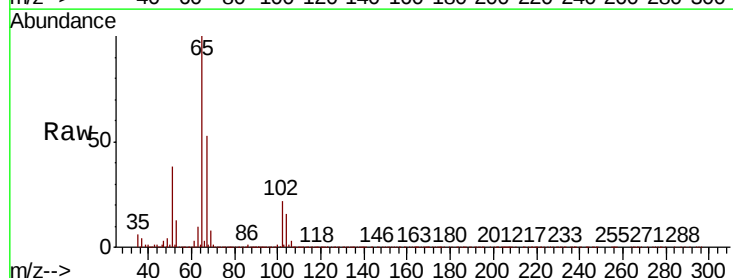
Tot Ion: 59 Resp: 481
Ion Ratio Lower Upper
59 100
52 75.9 0.2 0.2#

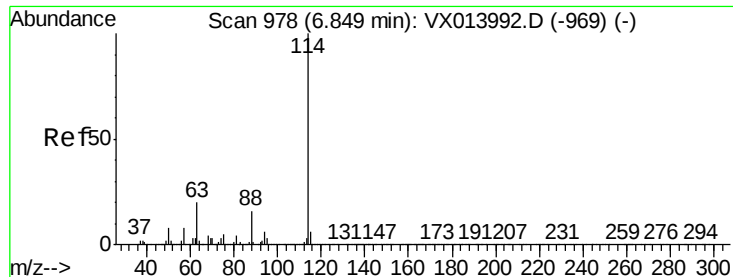


#27

1,2-Dichloroethane-d4
Concen: 29.879 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX014076.D
Acq: 18 Dec 2019 02:37

Tgt Ion: 65 Resp: 186132
Ion Ratio Lower Upper
65 100
67 53.7 43.1 64.7

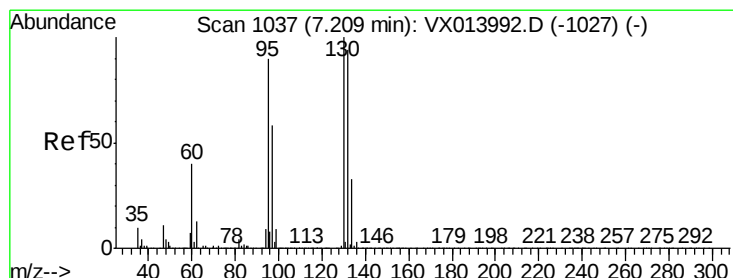
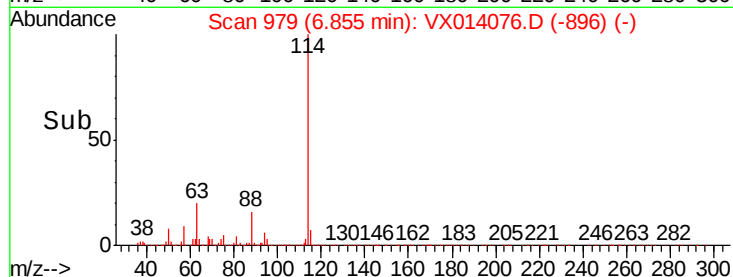
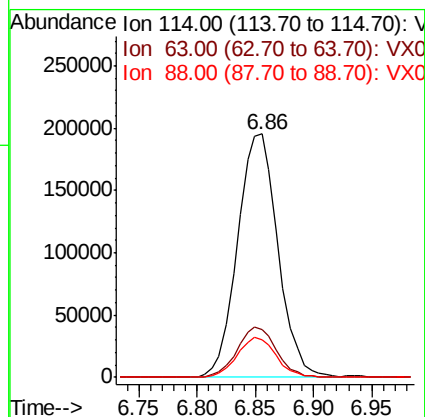
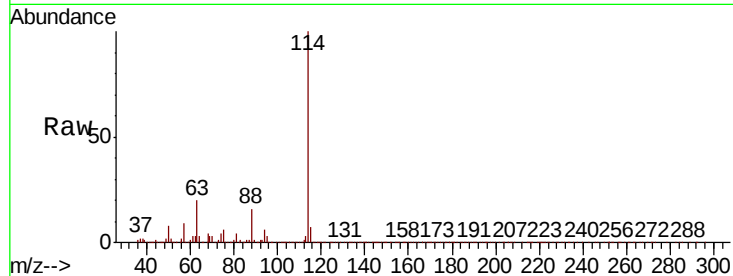




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.86 min Scan# 979
Delta R.T. 0.01 min
Lab File: VX014076.D
Acq: 18 Dec 2019 02:37

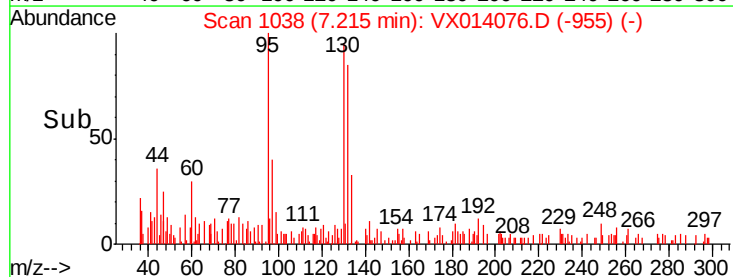
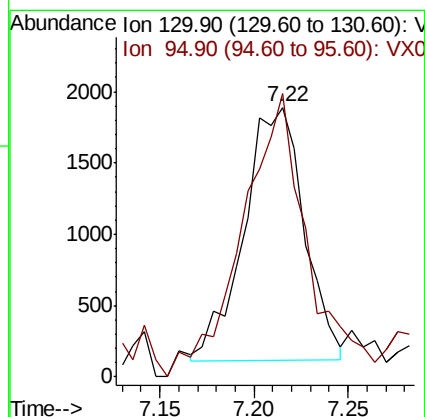
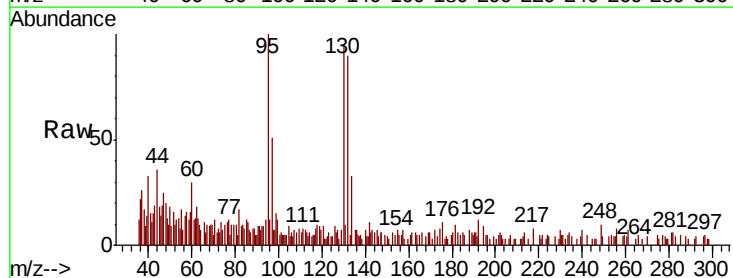
Instrument :
MSVOA_X
ClientSampleId :
TT-013-IDWGW-20191216

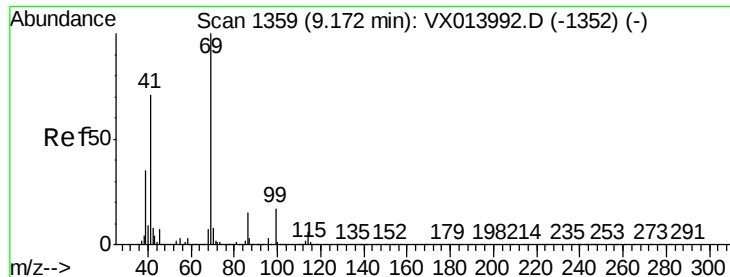
Tot Ion:114 Resp: 468825
Ion Ratio Lower Upper
114 100
63 19.9 16.1 24.1
88 15.9 12.5 18.7



#37
Trichloroethene
Concen: 0.684 ug/l
RT: 7.22 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VX014076.D
Acq: 18 Dec 2019 02:37

Tgt Ion:130 Resp: 3931
Ion Ratio Lower Upper
130 100
95 106.4 71.7 107.5





#51

Ethyl methacrylate

Concen: 0.261 ug/l

RT: 8.72 min Scan# 1285

Delta R.T. -0.45 min

Lab File: VX014076.D

Acq: 18 Dec 2019 02:37

Instrument :

MSVOA_X

ClientSampleId :

TT-013-IDW/GW-20191216

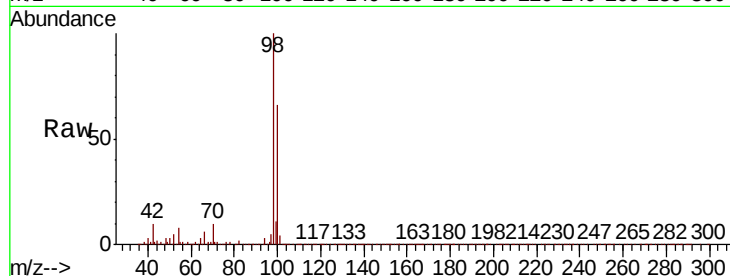
Tot Ion: 69 Resp: 2242

Ion Ratio Lower Upper

69 100

41 60.6 35.4 106.1

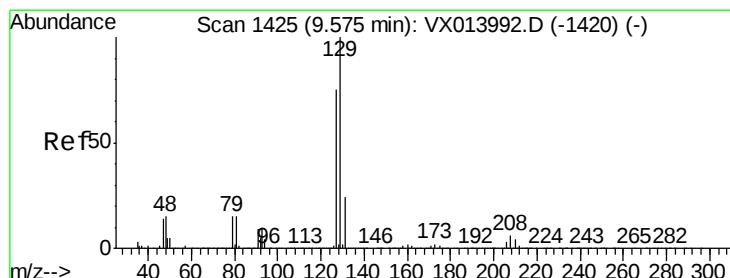
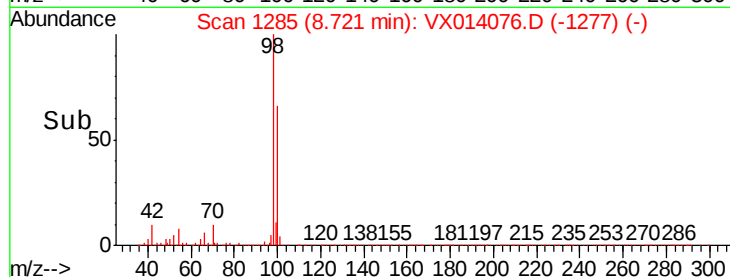
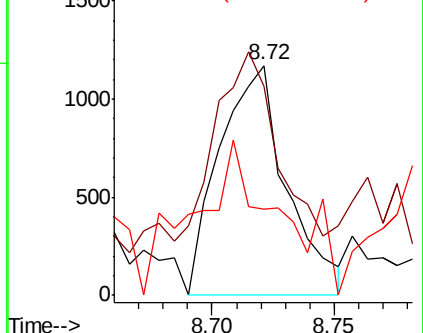
39 37.6 17.8 53.3



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#53

Dibromochloromethane

Concen: 0.442 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX014076.D

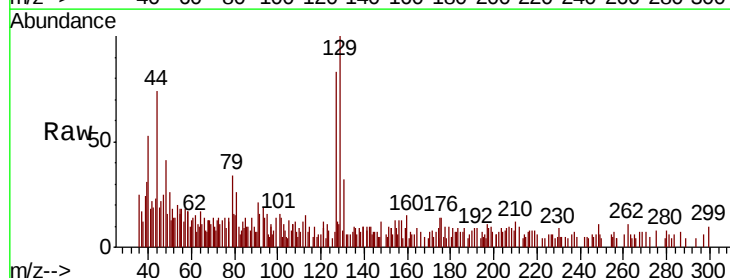
Acq: 18 Dec 2019 02:37

Tgt Ion: 129 Resp: 2389

Ion Ratio Lower Upper

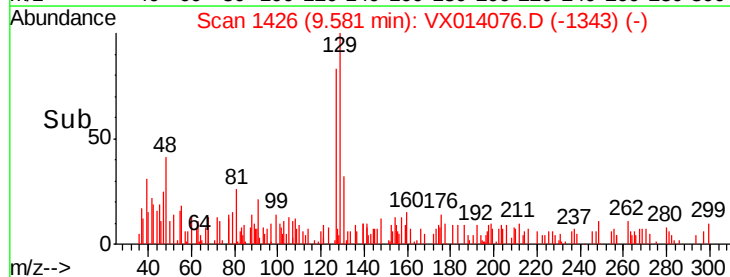
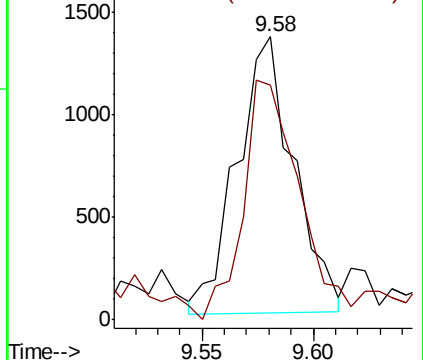
129 100

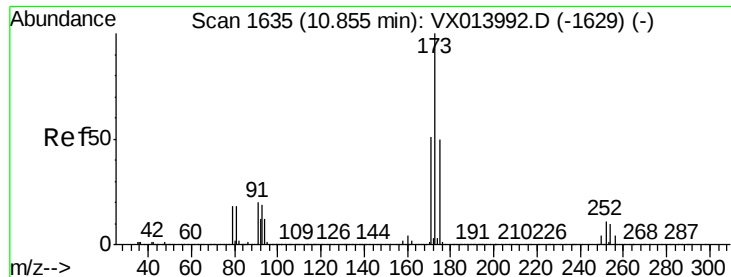
127 85.7 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#56

Bromoform

Concen: 0.435 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VX014076.D

Acq: 18 Dec 2019 02:37

Instrument :

MSVOA_X

ClientSampleId :

TT-013-IDW/GW-20191216

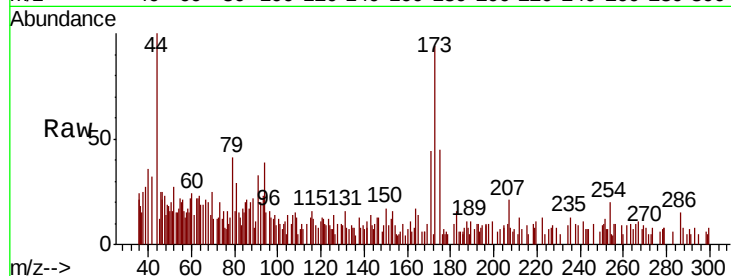
Tot Ion:173 Resp: 1833

Ion Ratio Lower Upper

173 100

175 51.7 39.5 59.3

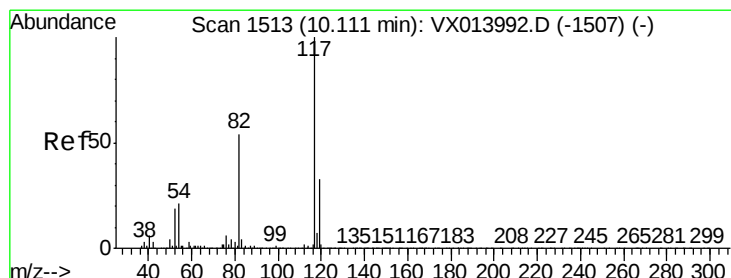
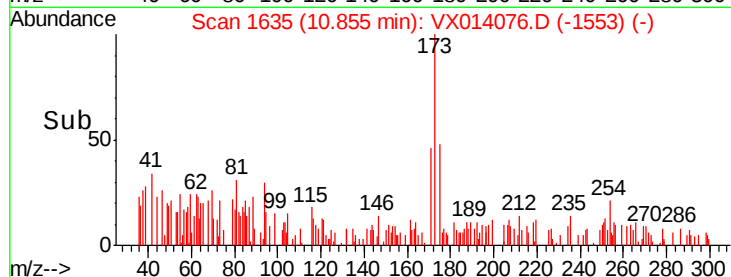
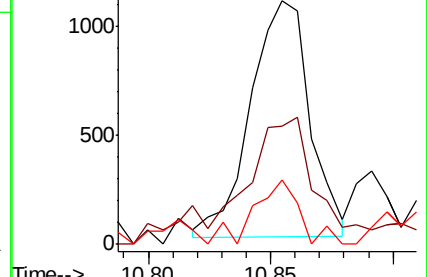
254 17.5 8.2 12.4#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014076.D

Acq: 18 Dec 2019 02:37

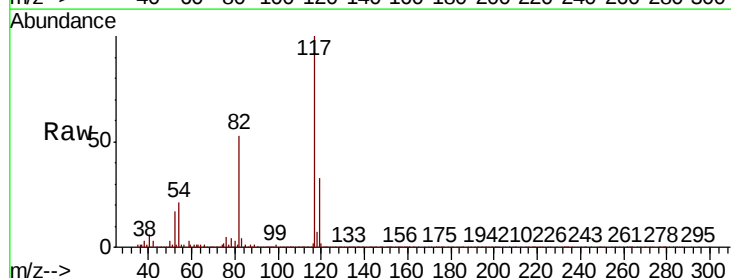
Tgt Ion:117 Resp: 409977

Ion Ratio Lower Upper

117 100

82 54.6 43.8 65.6

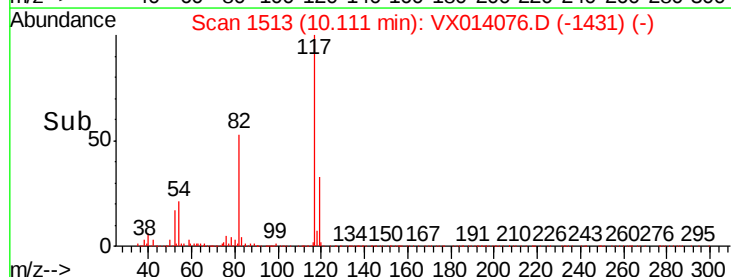
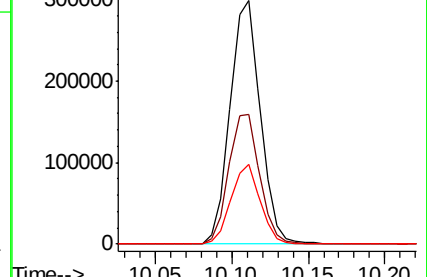
119 31.7 25.8 38.6

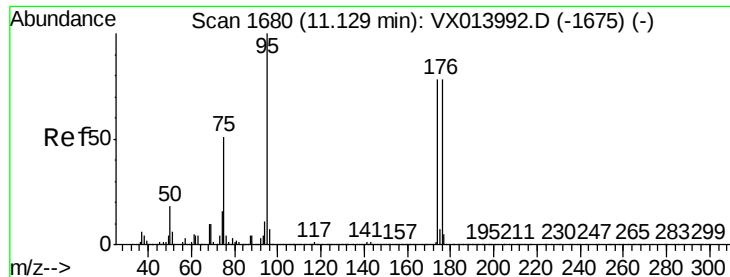


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

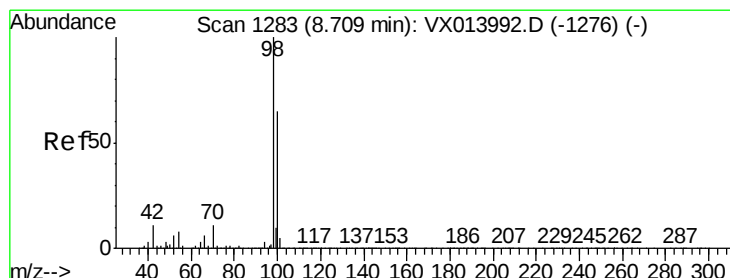
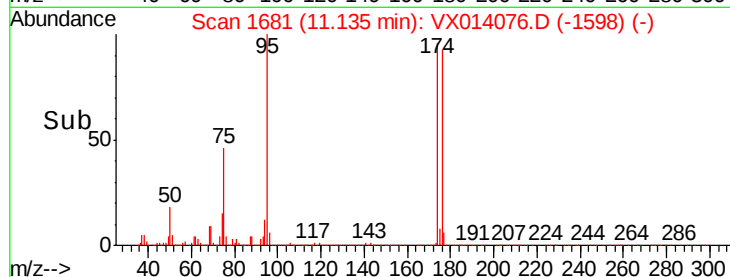
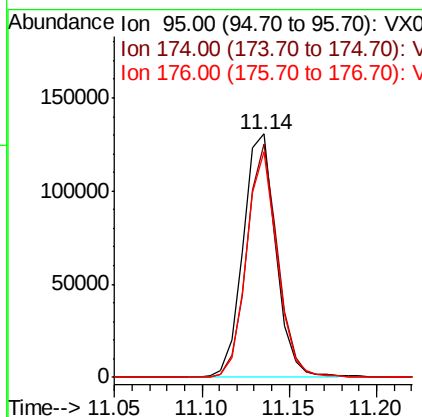
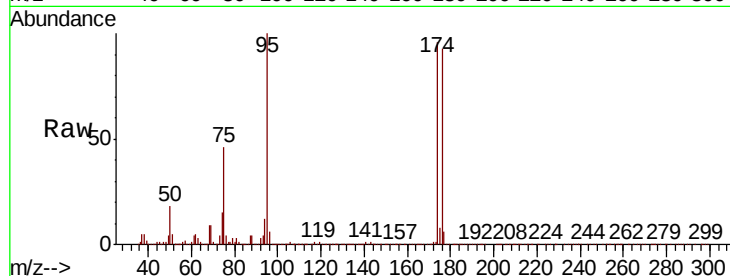




#60
4-Bromofluorobenzene
Concen: 25.646 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014076.D
Acq: 18 Dec 2019 02:37

Instrument :
MSVOA_X
ClientSampleId :
TT-013-IDW/GW-20191216

Tot Ion: 95 Resp: 169786
Ion Ratio Lower Upper
95 100
174 90.3 70.2 105.2
176 87.8 68.3 102.5



#63
Toluene-d8
Concen: 31.000 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014076.D
Acq: 18 Dec 2019 02:37

Tgt Ion: 98 Resp: 568093
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2

