

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071620\
 Data File : VL035194.D
 Acq On : 16 Jul 2020 15:13
 Operator : SY/AP
 Sample : L3318-02 600X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CARBON-03

Quant Time: Jul 17 04:08:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1189930	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	2789178	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	2519069	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2093147	10.23	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

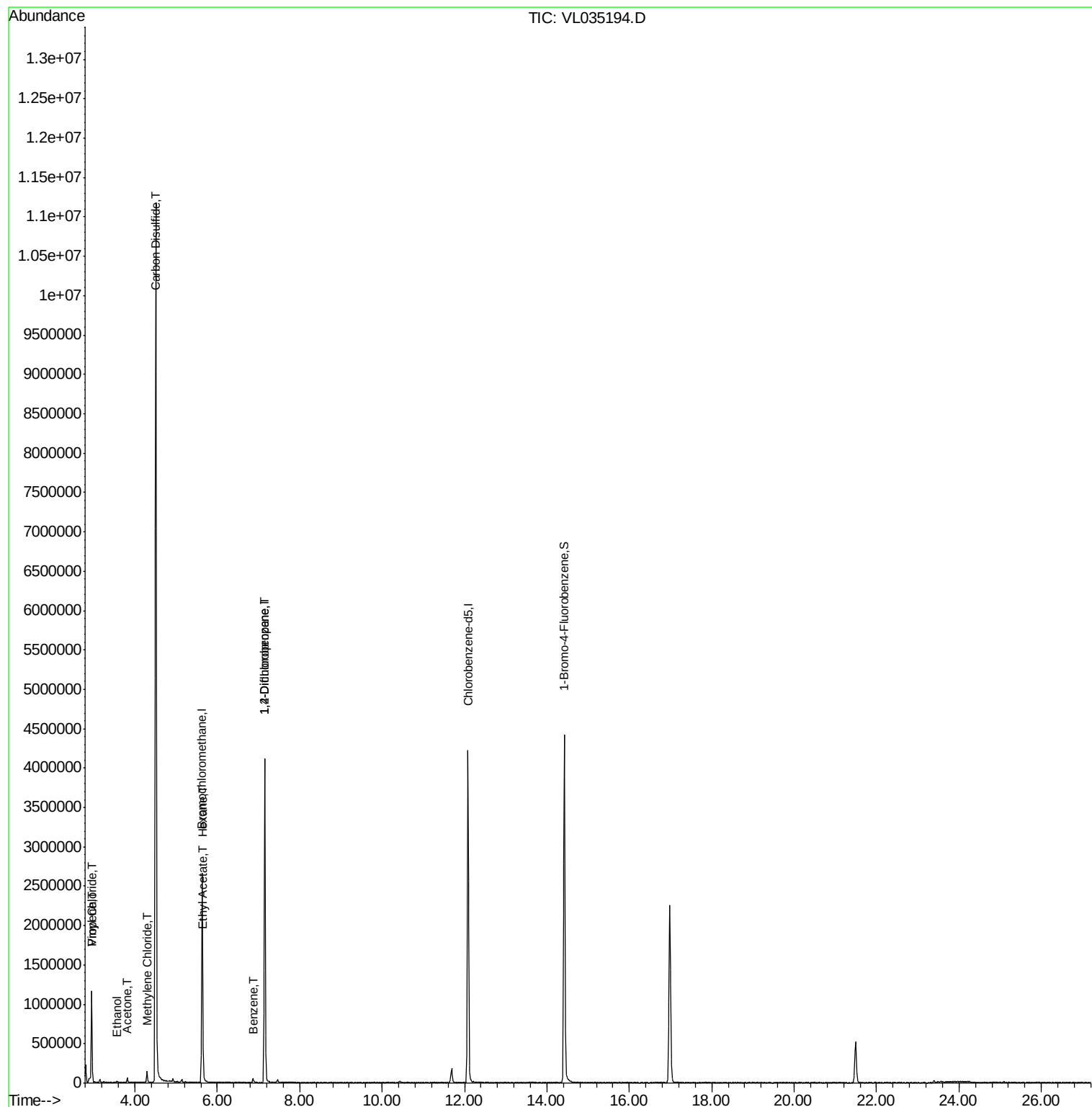
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	2.95	62	74609	0.942	ppbv #	43
9) Propene	2.95	41	5484	0.110	ppbv	93
13) Ethanol	3.56	45	11445	0.724	ppbv	98
15) Acetone	3.81	43	53218	0.330	ppbv #	82
20) Methylene Chloride	4.29	84	40596	0.579	ppbv	97
25) Ethyl Acetate	5.65	43	9543	0.038	ppbv #	80
26) Hexane	5.65	57	9033	0.082	ppbv #	1
27) Carbon Disulfide	4.50	76	12571005	81.670	ppbv #	67
36) Benzene	6.87	78	18052	0.089	ppbv #	92
39) 1,2-Dichloropropane	7.15	63	755038	9.405	ppbv #	23

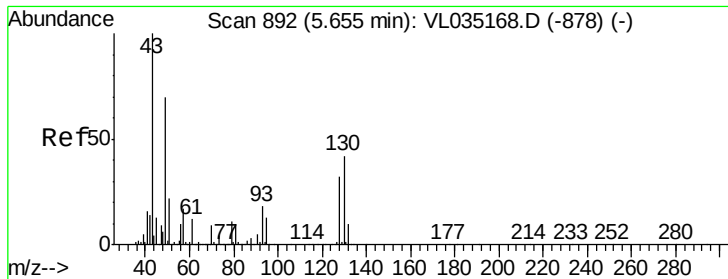
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 08 07:05:23 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 884

Delta R.T. -0.03 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Instrument :

MSVOA_L

ClientSampleId :

CARBON-03

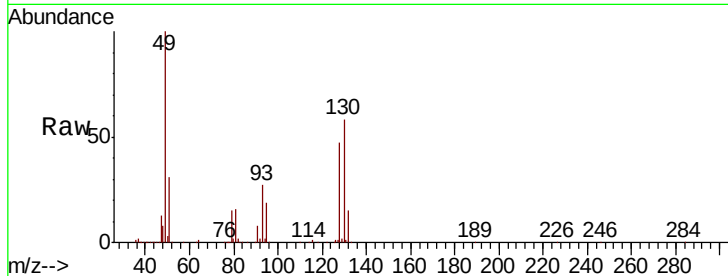
Tot Ion: 49 Resp: 1189930

Ion Ratio Lower Upper

49 100

128 47.6 23.8 71.4

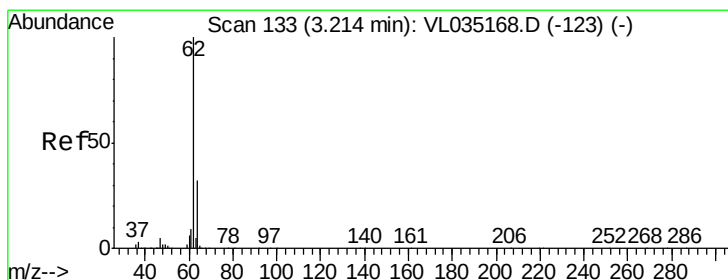
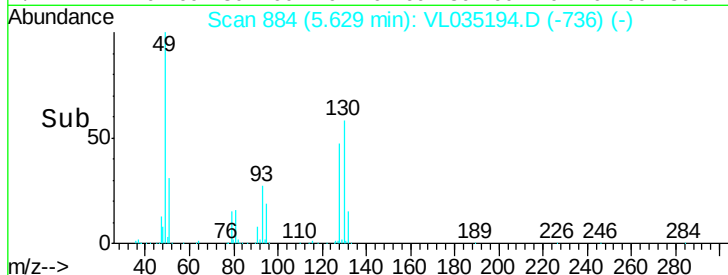
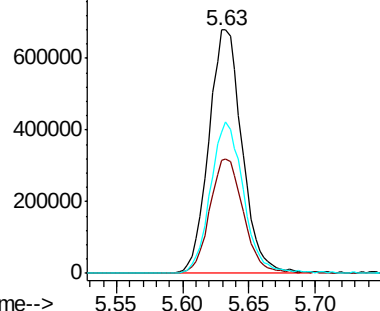
130 61.8 29.9 89.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.942 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.26 min

Lab File: VL035194.D

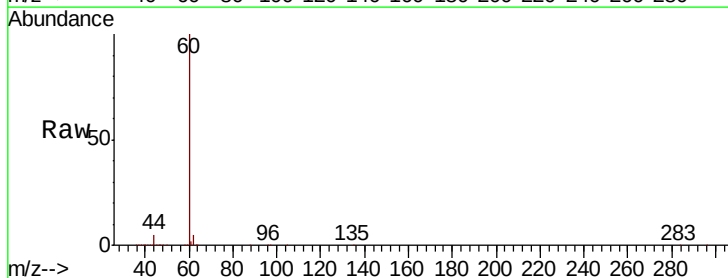
Acq: 16 Jul 2020 15:13

Tgt Ion: 62 Resp: 74609

Ion Ratio Lower Upper

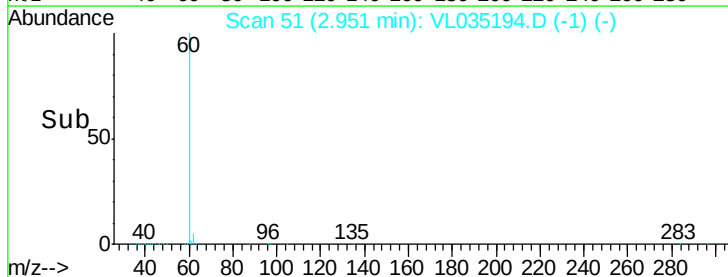
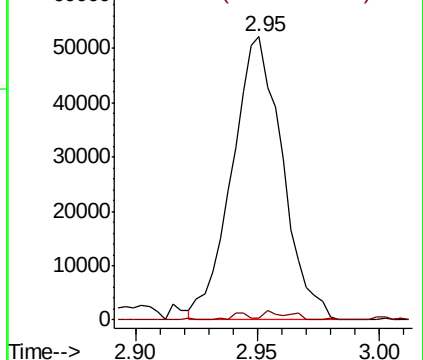
62 100

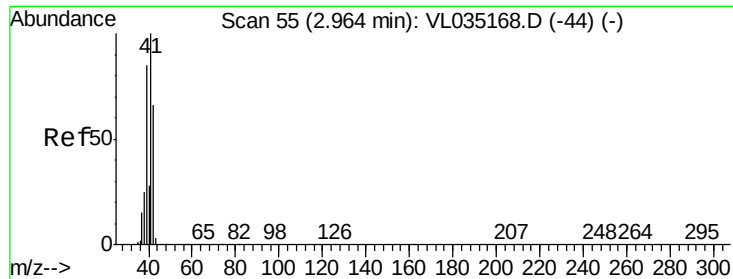
64 0.6 25.9 38.9#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 0.110 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.01 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Instrument :

MSVOA_L

ClientSampleId :

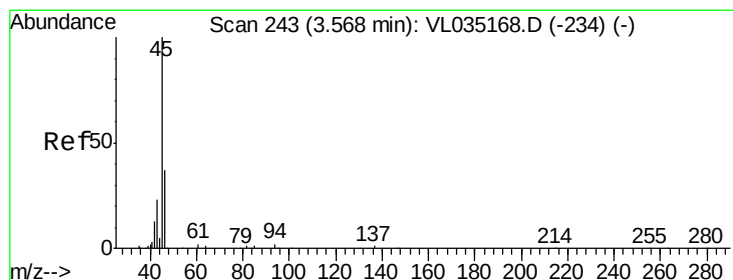
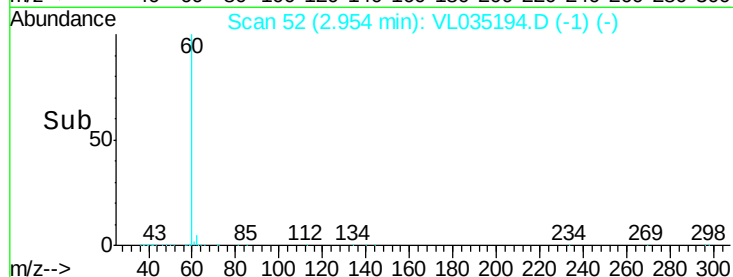
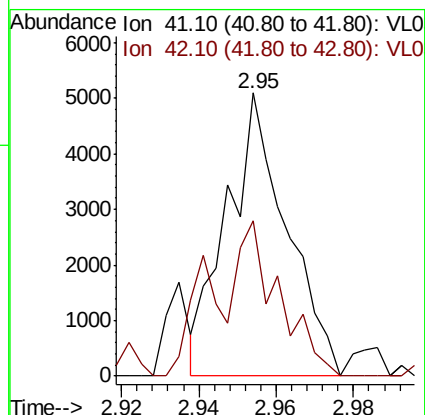
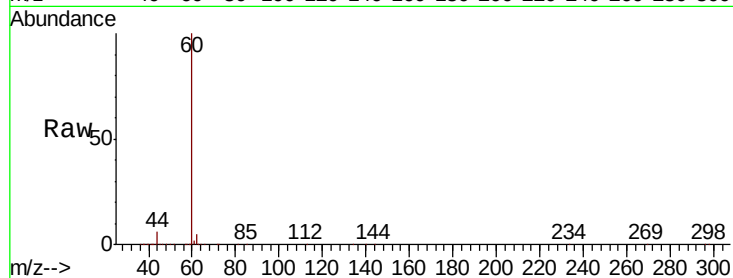
CARBON-03

Tot Ion: 41 Resp: 5484

Ion Ratio Lower Upper

41 100

42 62.9 54.6 81.8



#13

Ethanol

Concen: 0.724 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.01 min

Lab File: VL035194.D

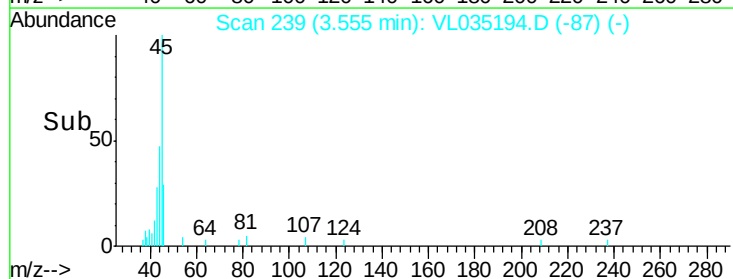
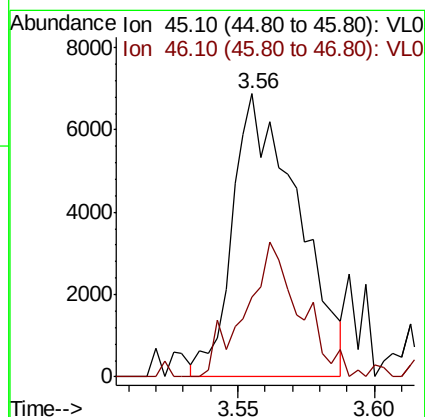
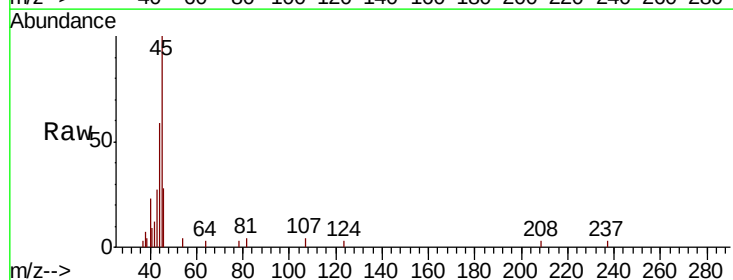
Acq: 16 Jul 2020 15:13

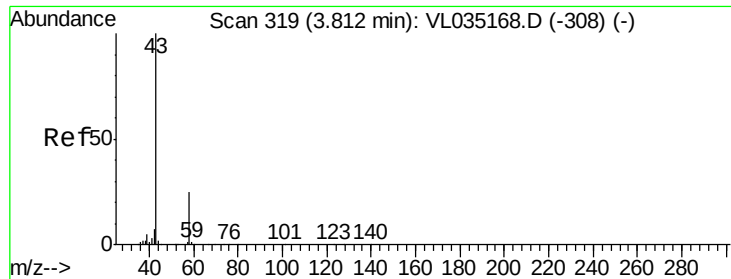
Tgt Ion: 45 Resp: 11445

Ion Ratio Lower Upper

45 100

46 42.1 16.2 65.0





#15

Acetone

Concen: 0.330 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Instrument :

MSVOA_L

ClientSampleId :

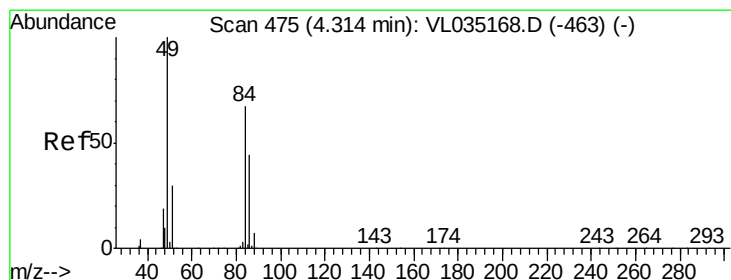
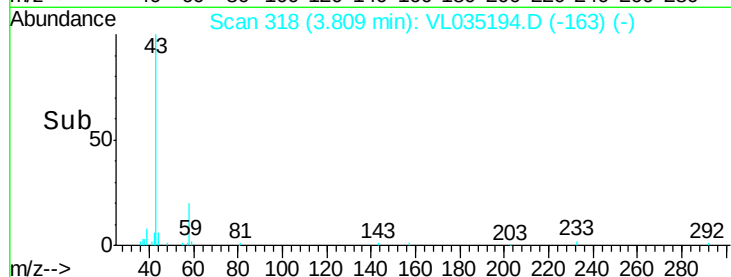
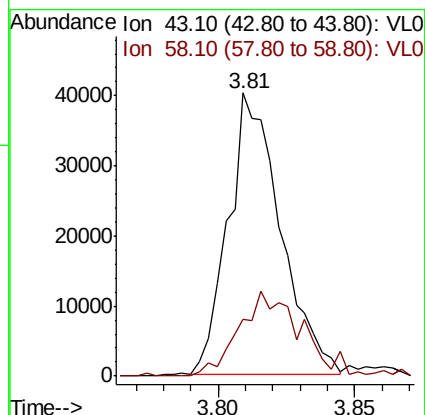
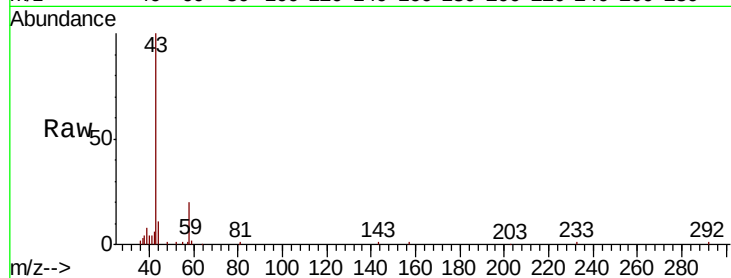
CARBON-03

Tot Ion: 43 Resp: 53218

Ion Ratio Lower Upper

43 100

58 35.7 21.3 31.9#



#20

Methylene Chloride

Concen: 0.579 ppbv

RT: 4.29 min Scan# 469

Delta R.T. -0.02 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Tgt Ion: 84 Resp: 40596

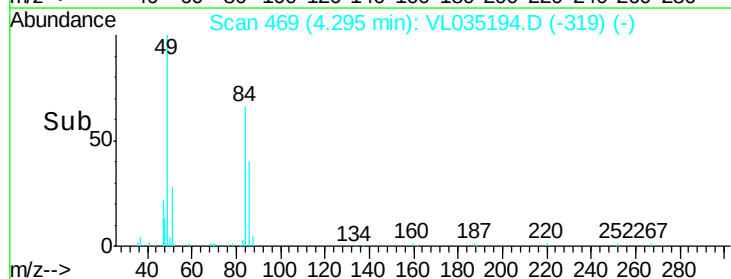
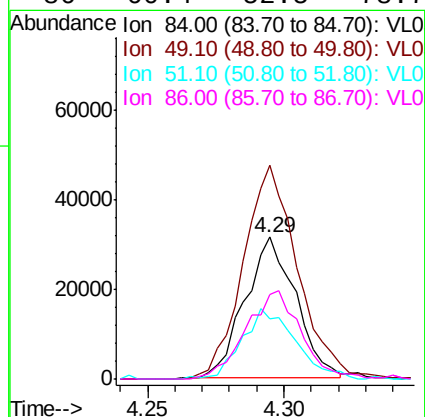
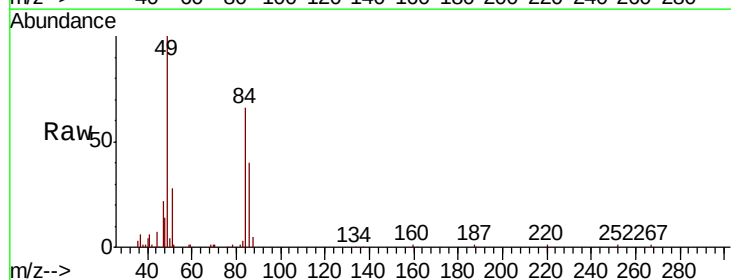
Ion Ratio Lower Upper

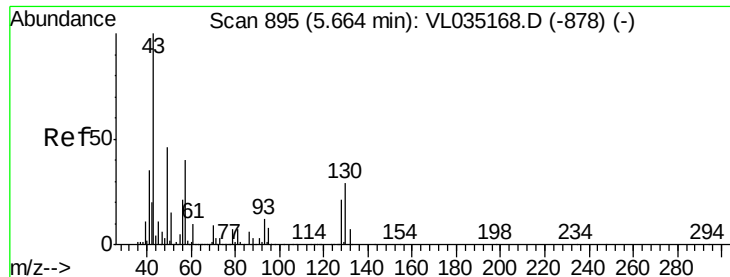
84 100

49 150.9 119.4 179.0

51 41.9 36.6 55.0

86 60.4 52.5 78.7





#25

Ethyl Acetate

Concen: 0.038 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Instrument :

MSVOA_L

ClientSampleId :

CARBON-03

Tot Ion: 43 Resp: 9543

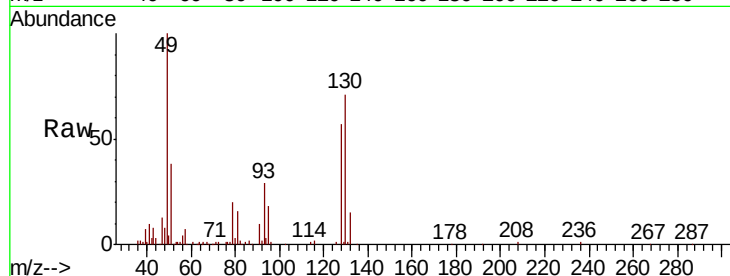
Ion Ratio Lower Upper

43 100

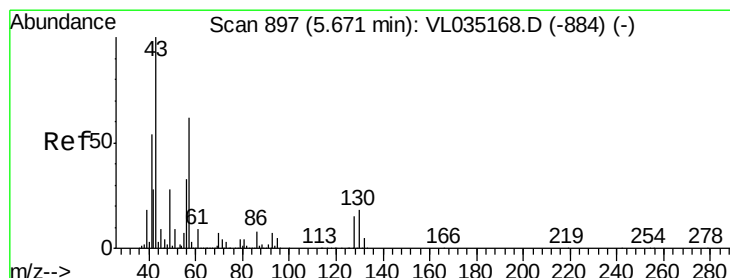
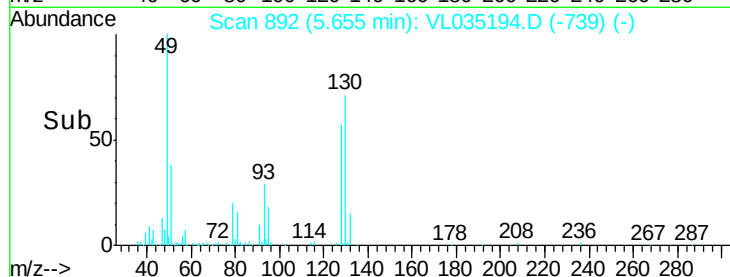
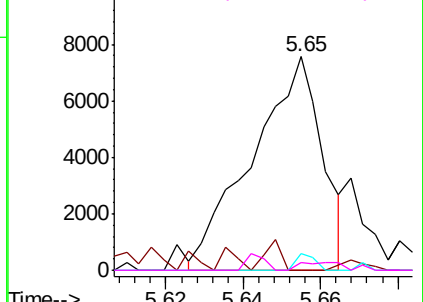
45 0.0 8.5 12.7#

61 2.7 8.1 12.1#

70 4.5 6.3 9.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.082 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.03 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Tgt Ion: 57 Resp: 9033

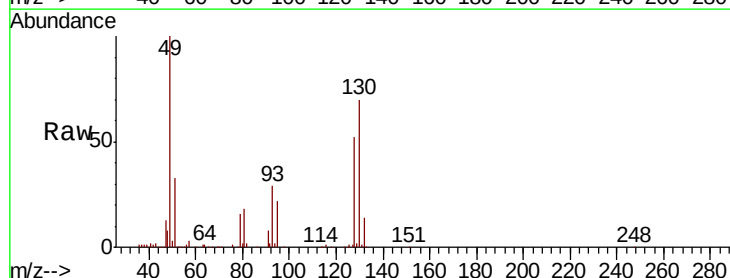
Ion Ratio Lower Upper

57 100

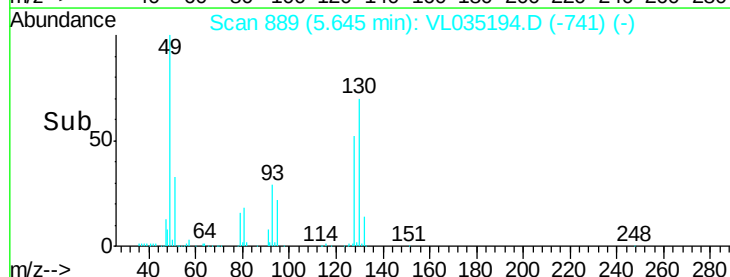
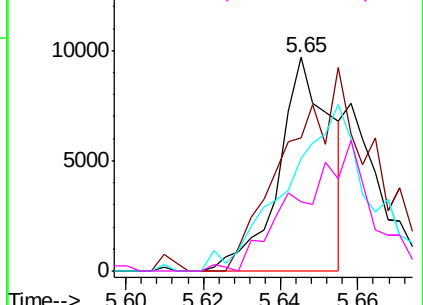
41 0.0 72.9 109.3#

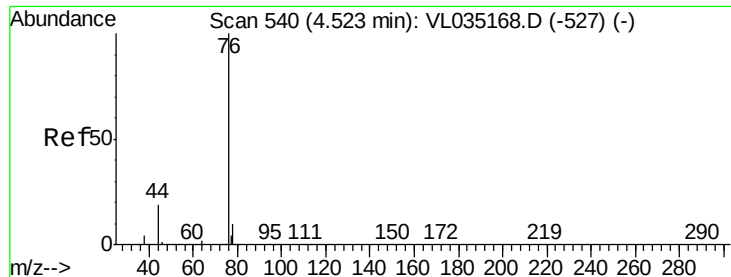
43 0.0 179.5 269.3#

56 0.0 42.9 64.3#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 81.670 ppbv

RT: 4.50 min Scan# 534

Delta R.T. -0.02 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Instrument :

MSVOA_L

ClientSampleId :

CARBON-03

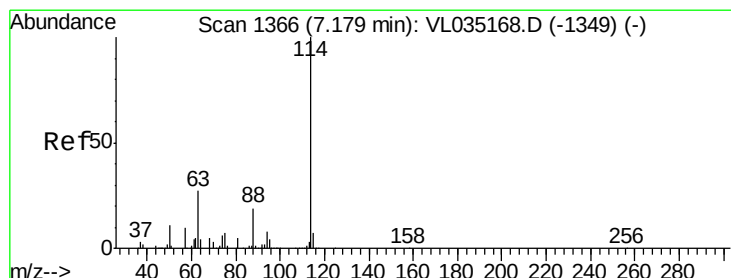
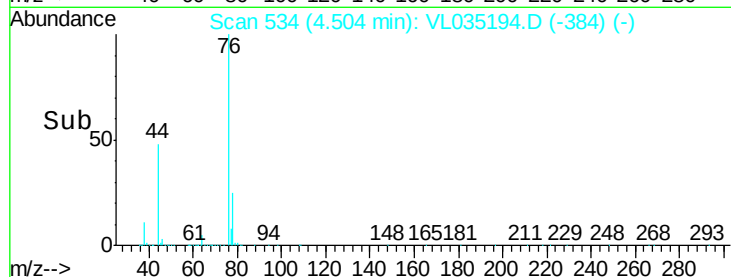
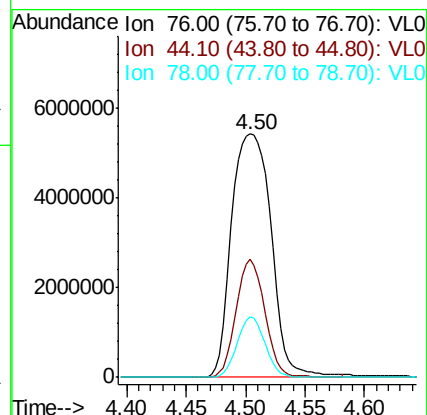
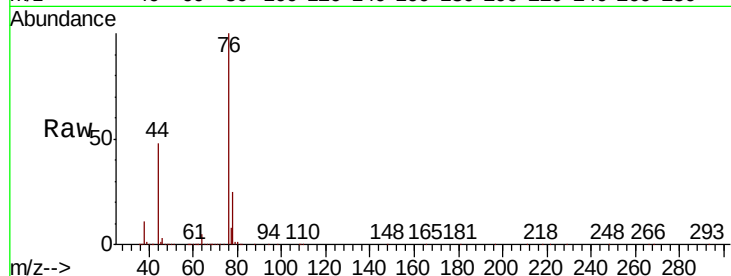
Tot Ion: 76 Resp:12571005

Ion Ratio Lower Upper

76 100

44 35.5 14.9 22.3#

78 17.7 7.5 11.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.03 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

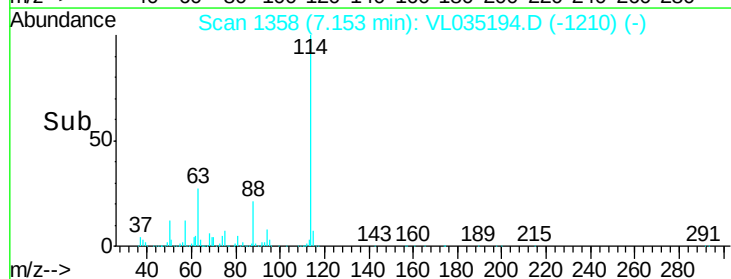
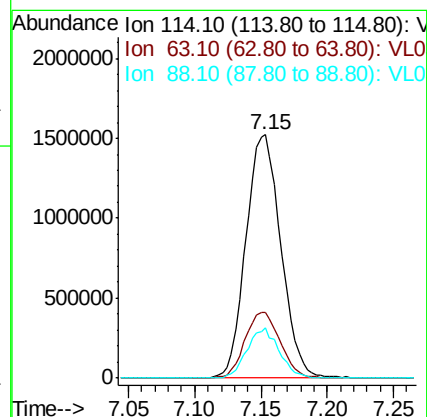
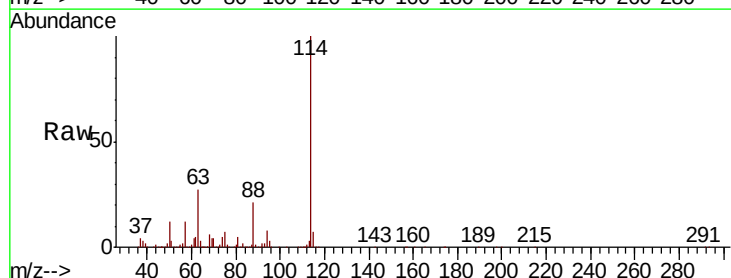
Tgt Ion:114 Resp: 2789178

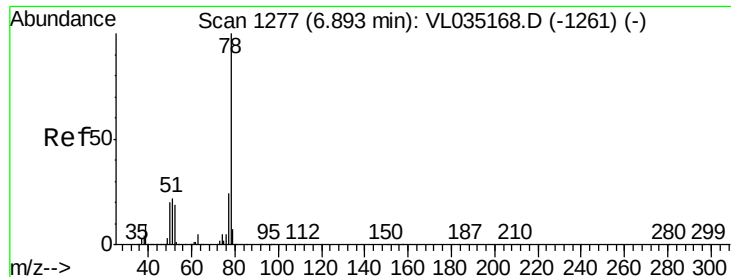
Ion Ratio Lower Upper

114 100

63 27.3 22.0 33.0

88 19.0 15.4 23.0





#36

Benzene

Concen: 0.089 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.02 min

Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Instrument :

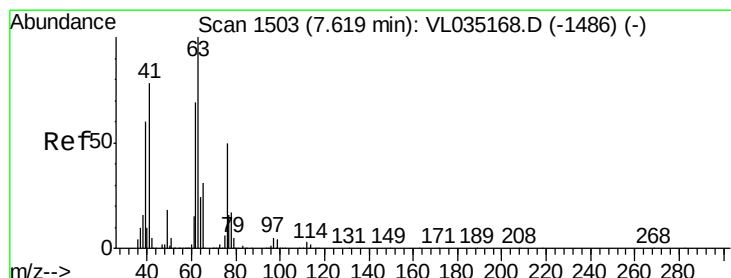
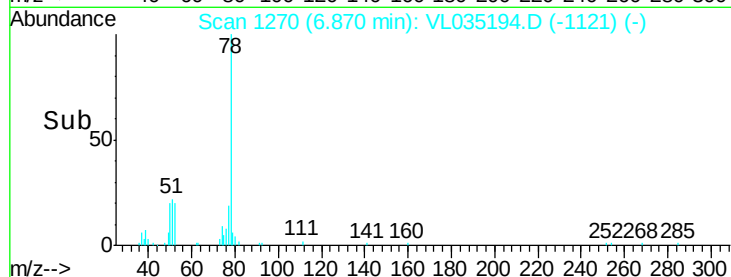
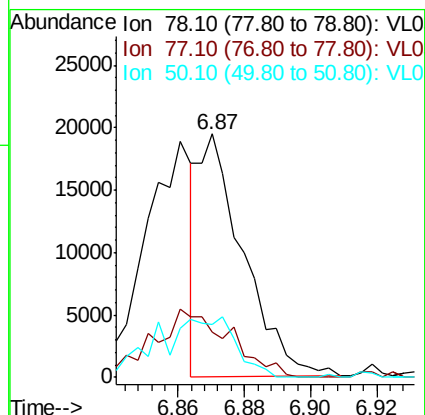
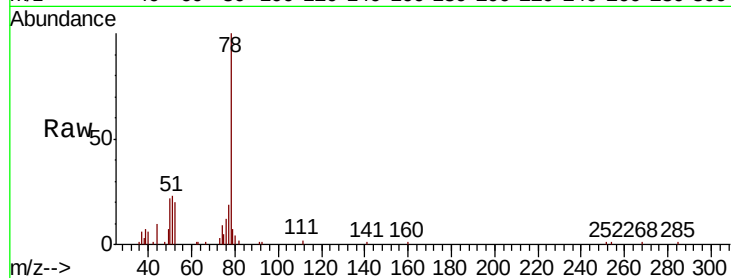
MSVOA_L

ClientSampleId :

CARBON-03

Tot Ion: 78 Resp: 18052

Ion	Ratio	Lower	Upper
78	100		
77	18.7	19.3	28.9#
50	21.8	16.0	24.0



#39

1,2-Dichloropropane

Concen: 9.405 ppbv

RT: 7.15 min Scan# 1358

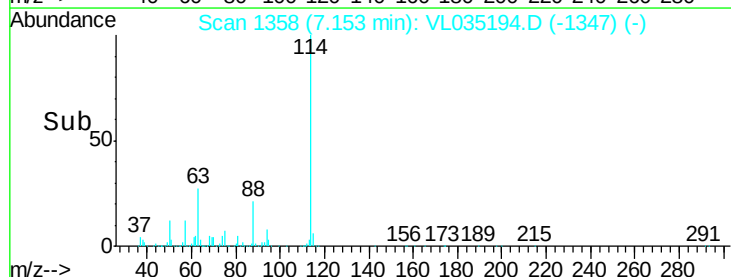
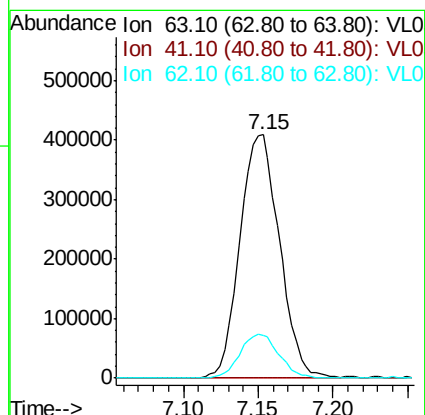
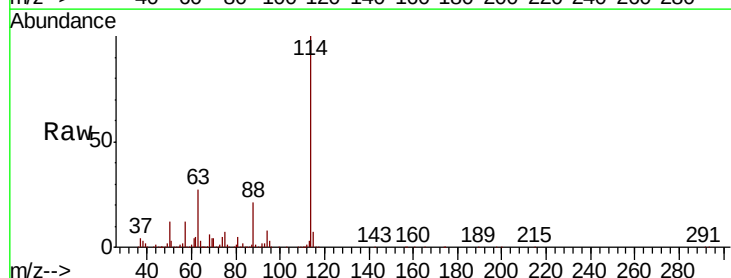
Delta R.T. -0.47 min

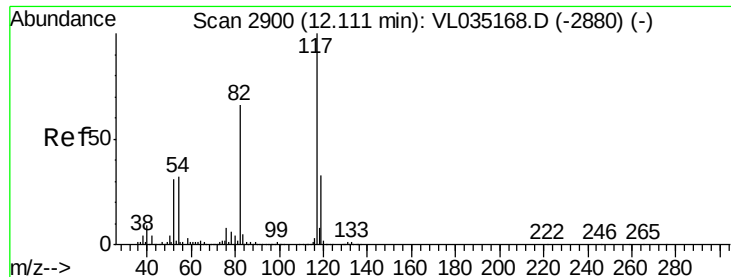
Lab File: VL035194.D

Acq: 16 Jul 2020 15:13

Tgt Ion: 63 Resp: 755038

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.6	94.0#
62	17.3	55.0	82.6#

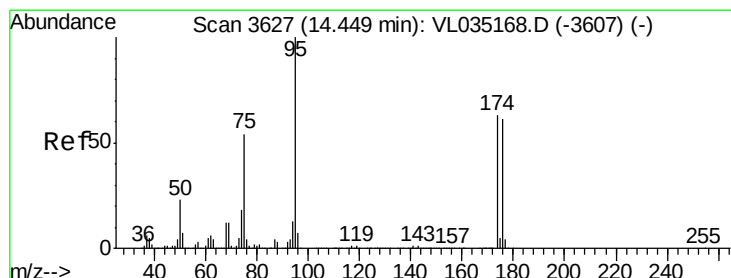
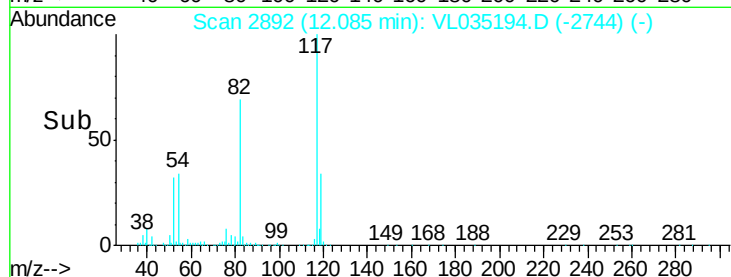
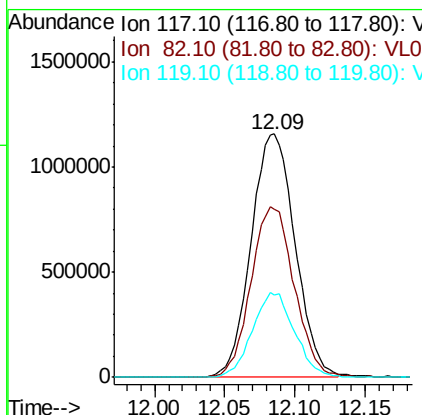
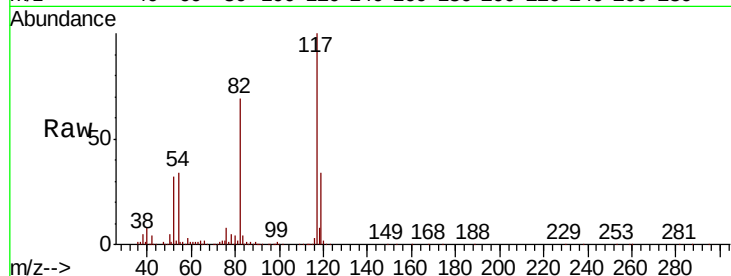




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.03 min
Lab File: VL035194.D
Acq: 16 Jul 2020 15:13

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CARBON-03

Tot Ion:117 Resp: 2519069
Ion Ratio Lower Upper
117 100
82 69.3 52.3 78.5
119 33.5 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.228 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.03 min
Lab File: VL035194.D
Acq: 16 Jul 2020 15:13

Tgt Ion: 95 Resp: 2093147
Ion Ratio Lower Upper
95 100
174 64.4 52.2 78.2
175 4.9 4.0 6.0

