

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022521\
 Data File : VL036393.D
 Acq On : 25 Feb 2021 22:36
 Operator : SY/AP
 Sample : M1458-13 0.03LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 26 00:40:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1426403	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3088319	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2760550	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2354705	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

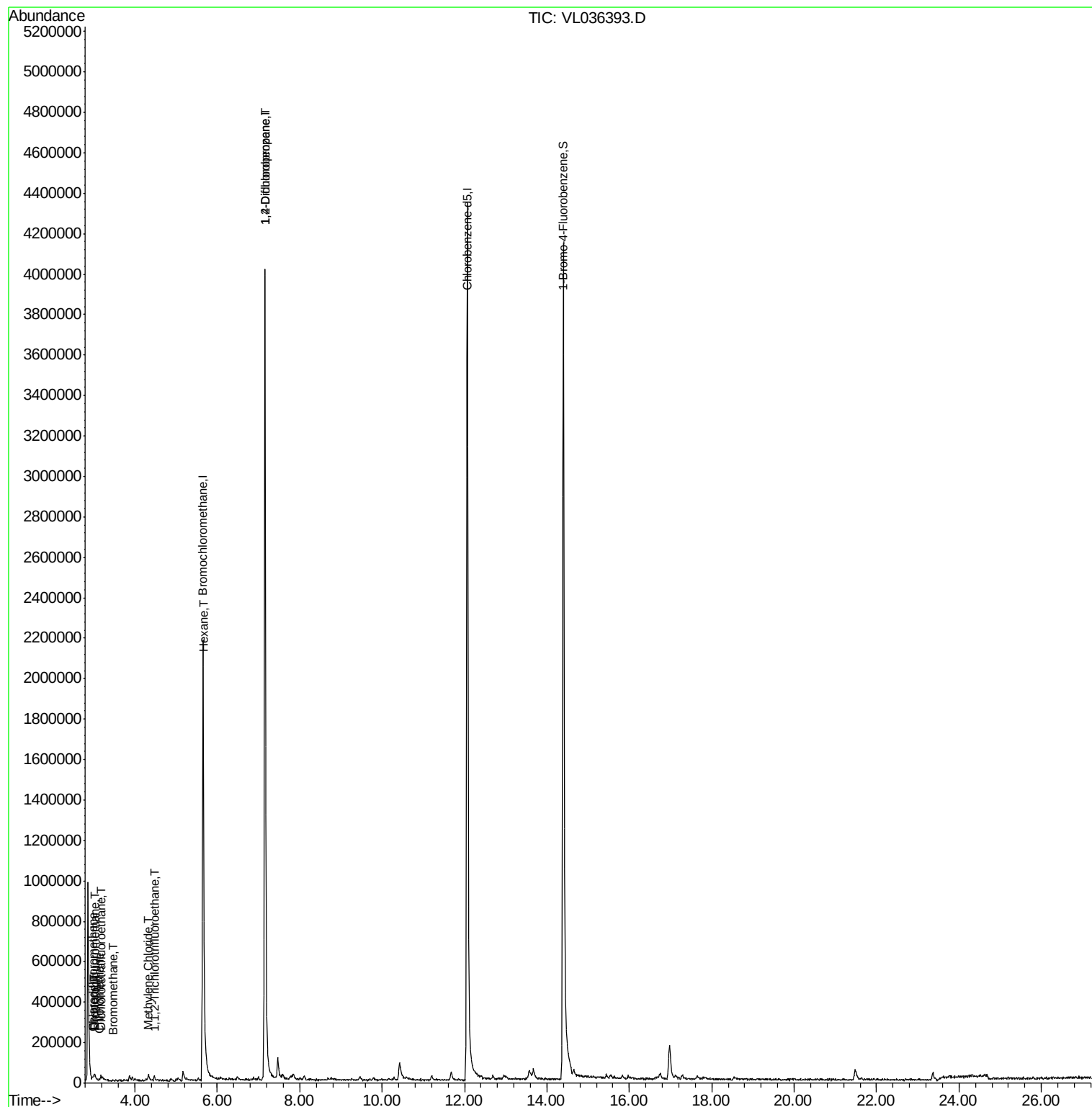
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	8797	0.041	ppbv	100
3) Chlorodifluoromethane	2.98	51	9746	0.055	ppbv #	78
4) Chloromethane	3.12	50	2709	0.032	ppbv #	85
6) Bromomethane	3.46	94	1642	0.035	ppbv	89
8) Dichlorotetrafluoroethane	3.17	85	10600	0.055	ppbv	98
9) Propene	2.99	41	2422	0.037	ppbv #	15
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4659	0.036	ppbv #	34
20) Methylene Chloride	4.33	84	3031	0.054	ppbv #	67
26) Hexane	5.67	57	4918	0.036	ppbv #	28
39) 1,2-Dichloropropane	7.16	63	881900	8.275	ppbv #	22

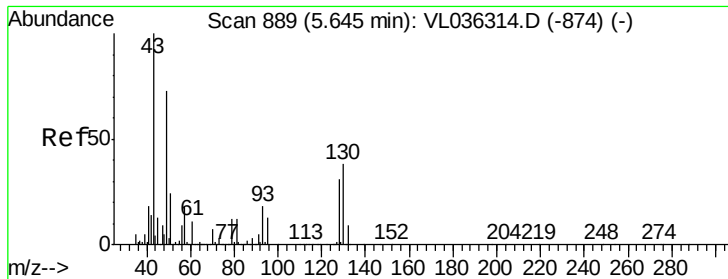
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. 0.00 min

Lab File: VL036393.D

Acq: 25 Feb 2021 22:36

Instrument :
MSVOA_L
ClientSampleId :

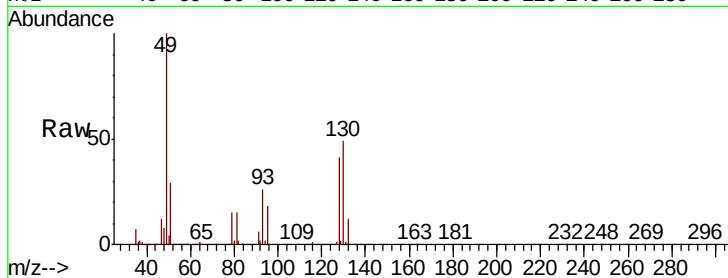
Tot Ion: 49 Resp: 1426403

Ion Ratio Lower Upper

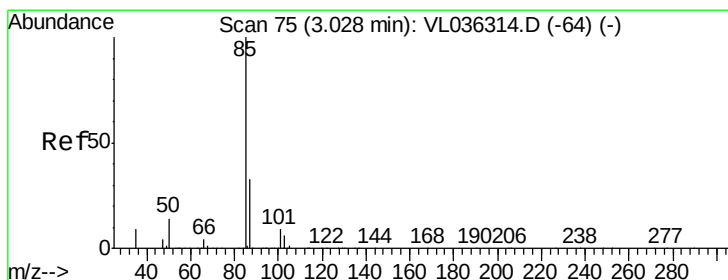
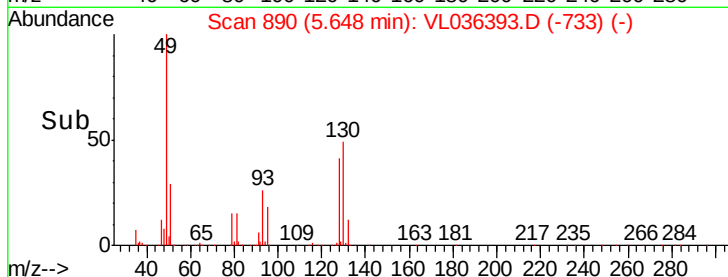
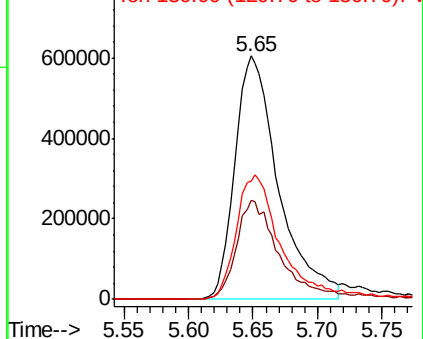
49 100

128 42.6 20.8 62.5

130 54.1 26.7 80.1



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



#2

Dichlorodifluoromethane

Concen: 0.041 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL036393.D

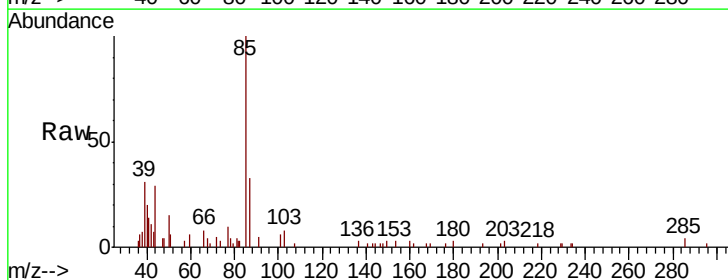
Acq: 25 Feb 2021 22:36

Tgt Ion: 85 Resp: 8797

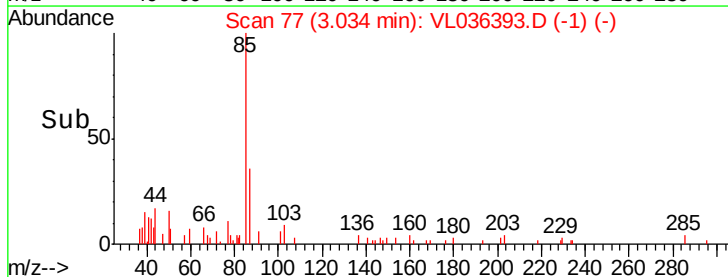
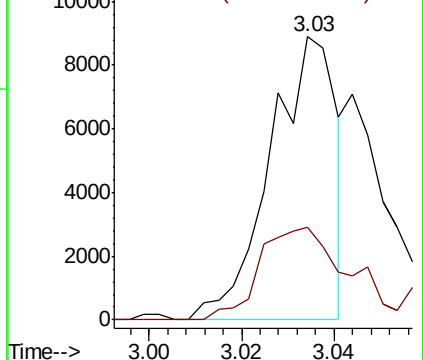
Ion Ratio Lower Upper

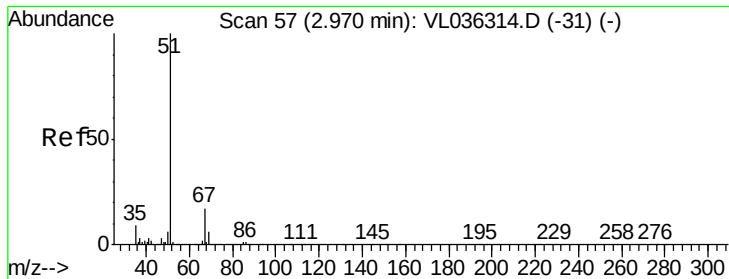
85 100

87 32.9 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.055 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL036393.D

Acq: 25 Feb 2021 22:36

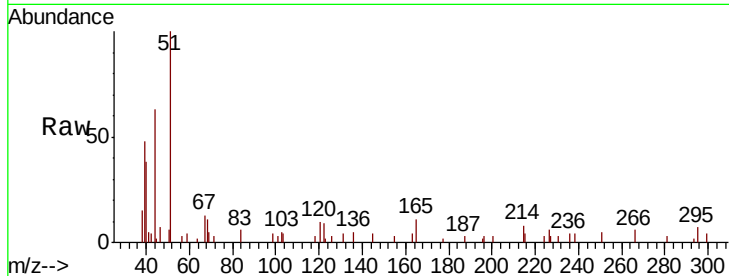
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 9746

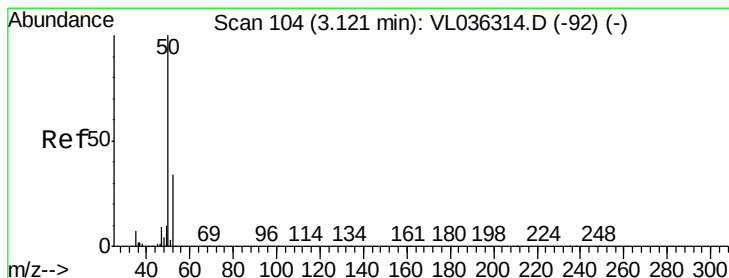
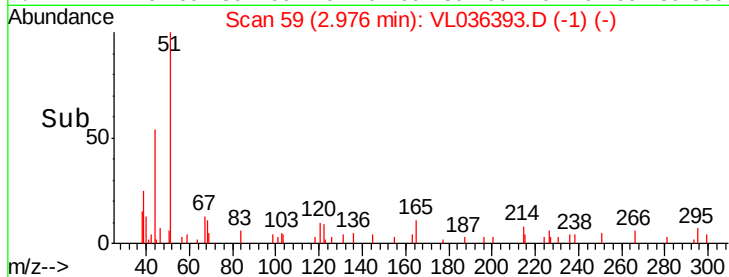
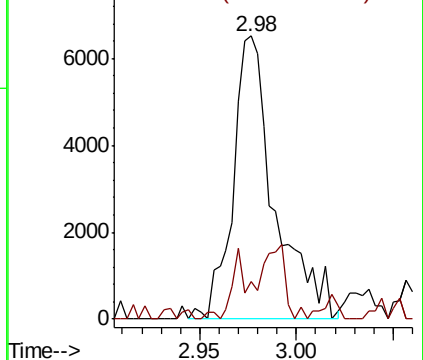
Ion Ratio Lower Upper

51 100

67 28.0 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.032 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL036393.D

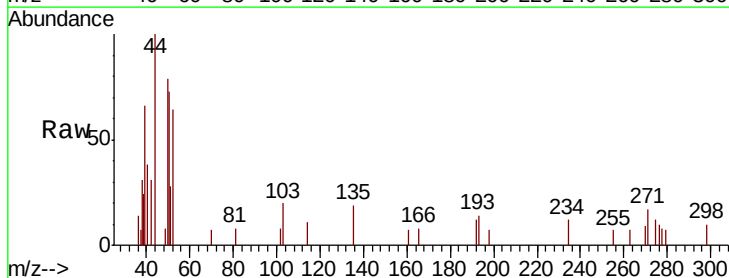
Acq: 25 Feb 2021 22:36

Tgt Ion: 50 Resp: 2709

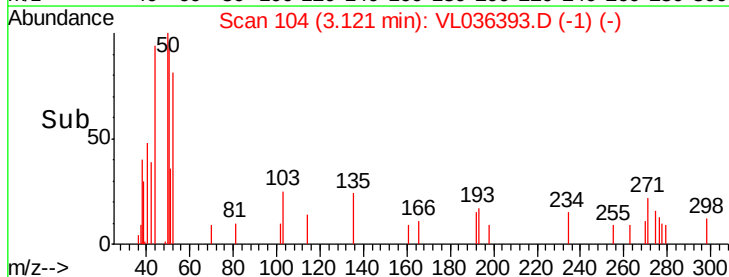
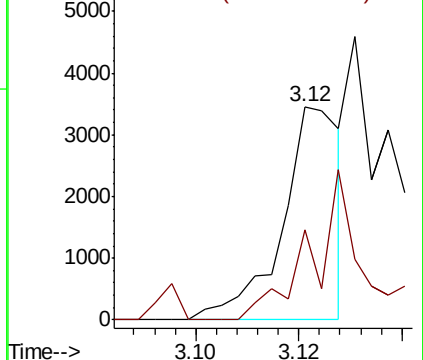
Ion Ratio Lower Upper

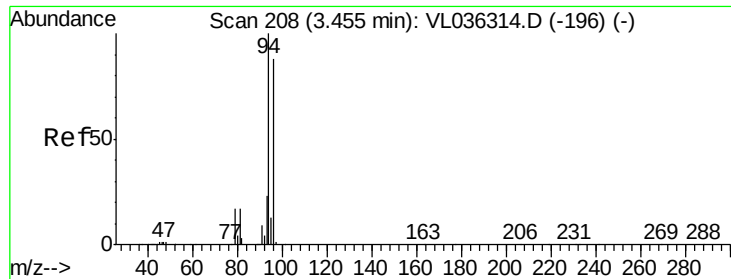
50 100

52 42.2 27.0 40.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#6

Bromomethane

Concen: 0.035 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.01 min

Lab File: VL036393.D

Acq: 25 Feb 2021 22:36

Instrument :

MSVOA_L

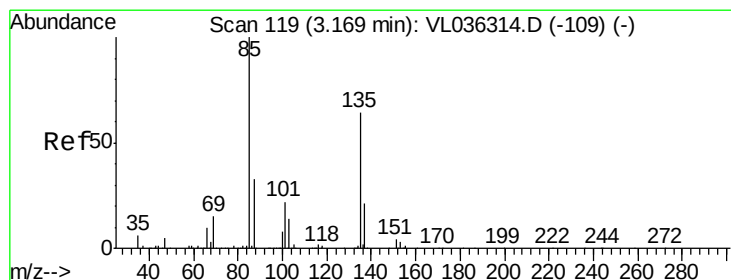
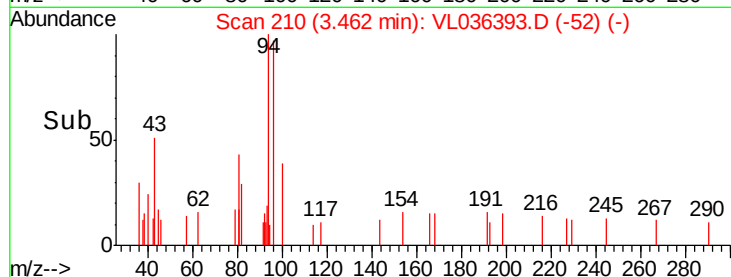
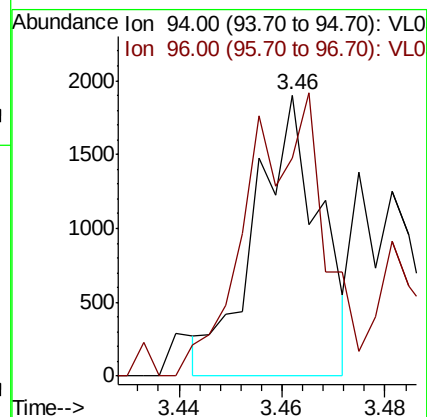
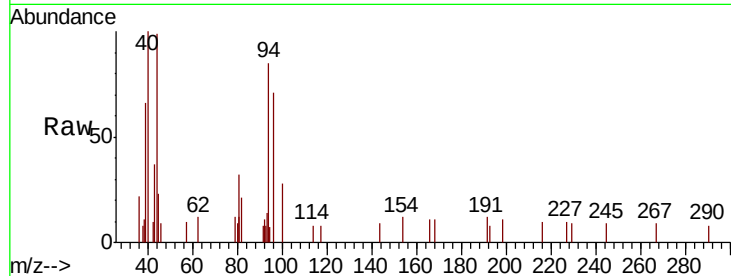
ClientSampleId :

Tot Ion: 94 Resp: 1642

Ion Ratio Lower Upper

94 100

96 77.9 70.8 106.2



#8

Dichlorotetrafluoroethane

Concen: 0.055 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036393.D

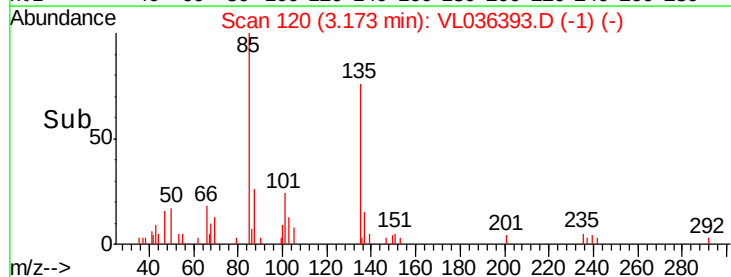
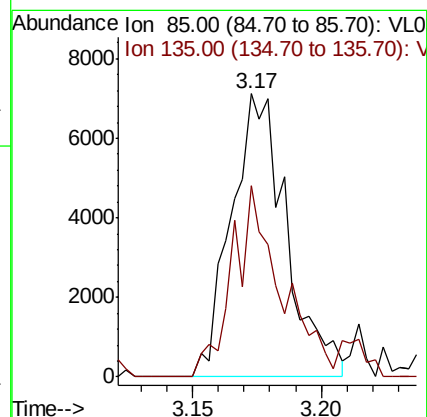
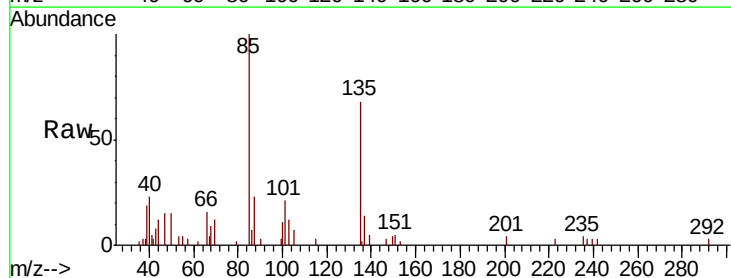
Acq: 25 Feb 2021 22:36

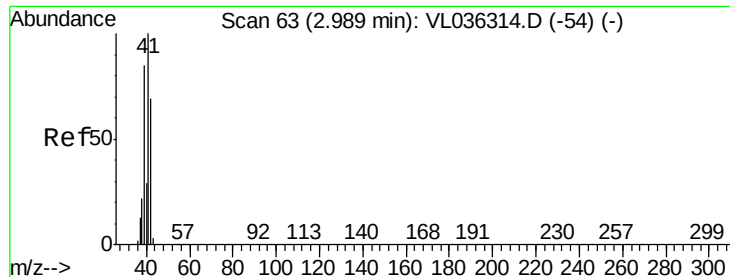
Tgt Ion: 85 Resp: 10600

Ion Ratio Lower Upper

85 100

135 65.7 51.1 76.7





#9

Propene

Concen: 0.037 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL036393.D

Acq: 25 Feb 2021 22:36

Instrument :

MSVOA_L

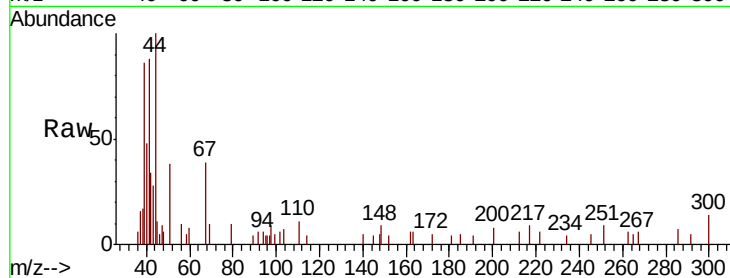
ClientSampleId :

Tot Ion: 41 Resp: 2422

Ion Ratio Lower Upper

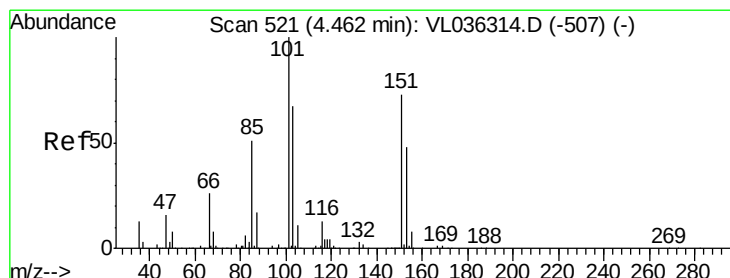
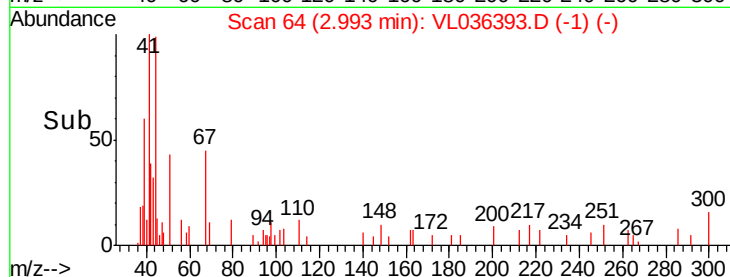
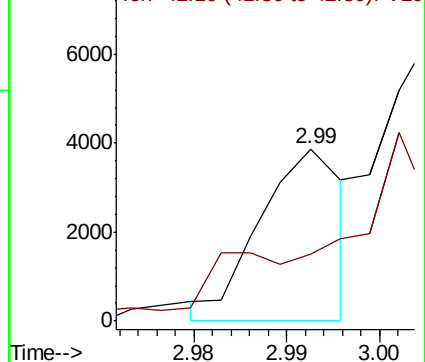
41 100

42 0.0 56.2 84.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.47 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL036393.D

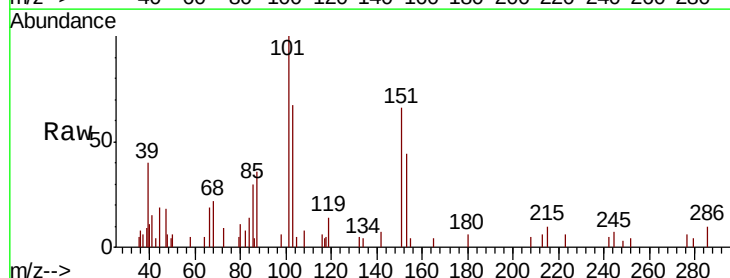
Acq: 25 Feb 2021 22:36

Tgt Ion: 101 Resp: 4659

Ion Ratio Lower Upper

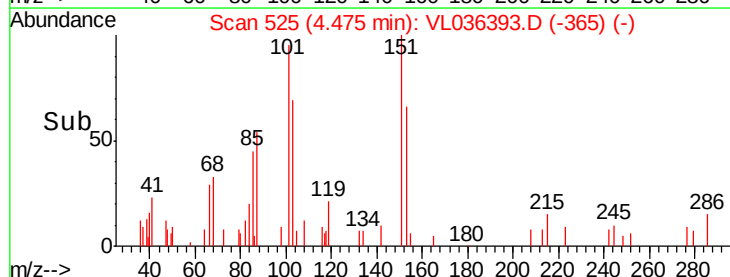
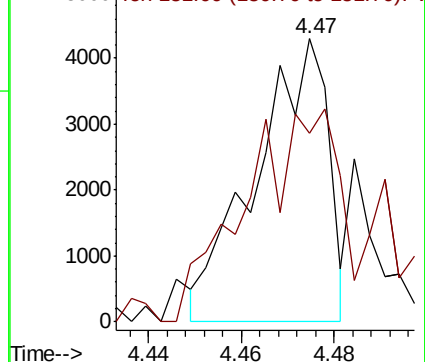
101 100

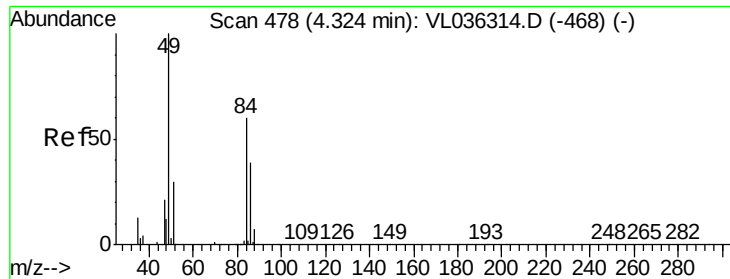
151 128.5 58.2 87.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

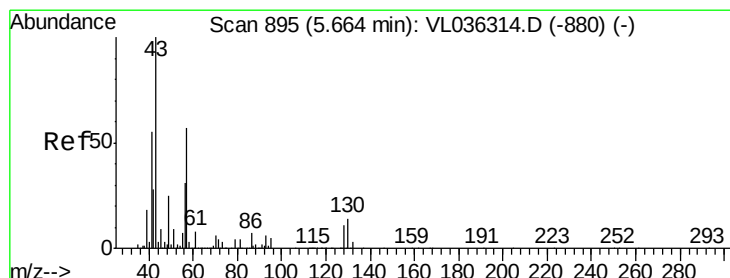
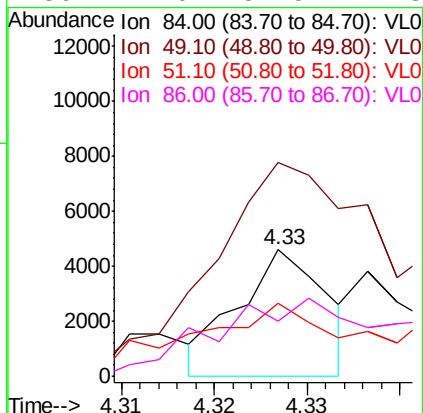
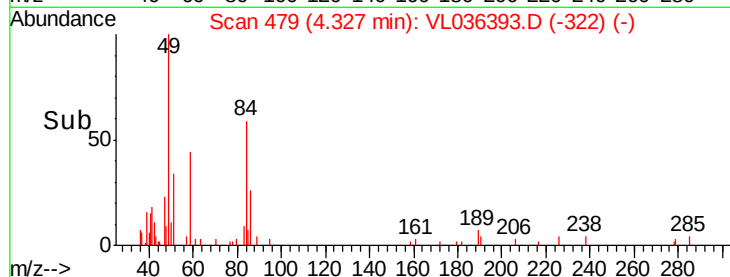
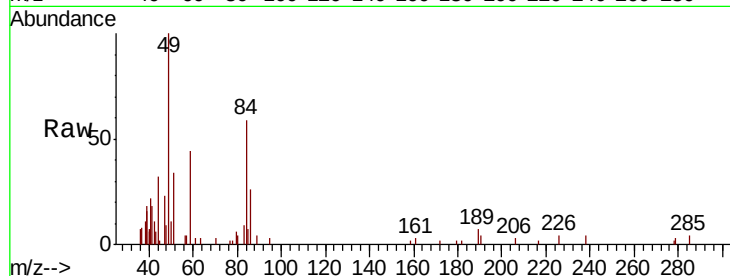




#20
Methvlene Chloride
Concen: 0.054 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL036393.D
Acq: 25 Feb 2021 22:36

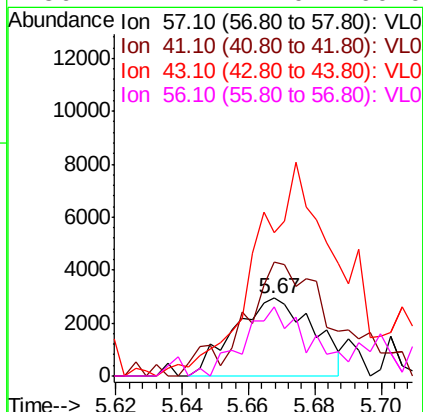
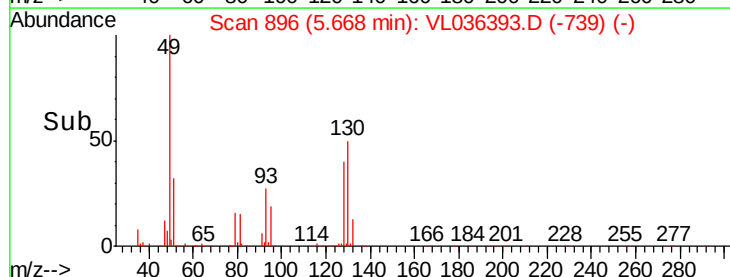
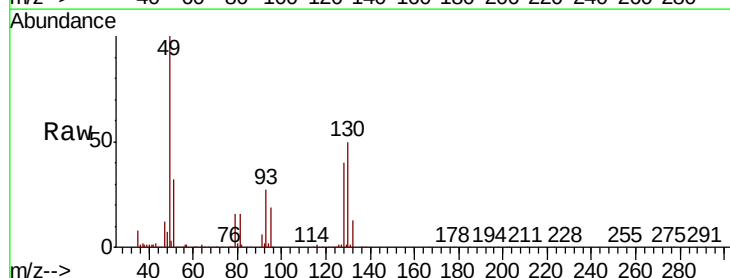
Instrument :
MSVOA_L
ClientSampled :

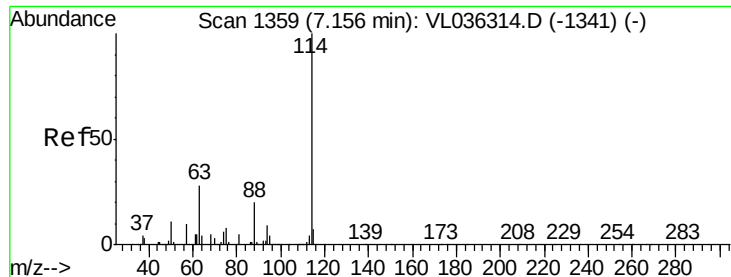
Tot Ion: 84 Resp: 3031
Ion Ratio Lower Upper
84 100
49 137.9 133.8 200.8
51 37.0 41.4 62.0#
86 7.0 51.5 77.3#



#26
Hexane
Concen: 0.036 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL036393.D
Acq: 25 Feb 2021 22:36

Tgt Ion: 57 Resp: 4918
Ion Ratio Lower Upper
57 100
41 192.0 81.7 122.5#
43 359.1 199.1 298.7#
56 111.1 44.0 66.0#

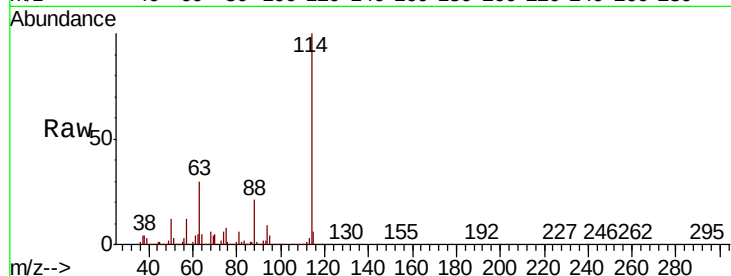




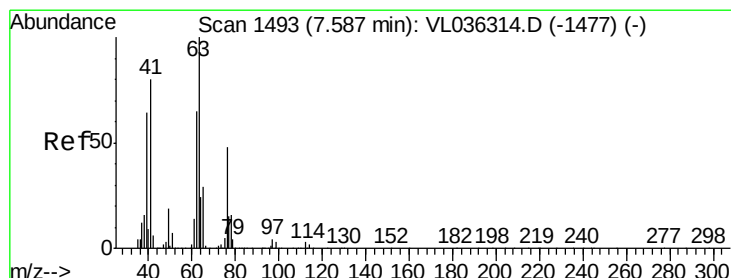
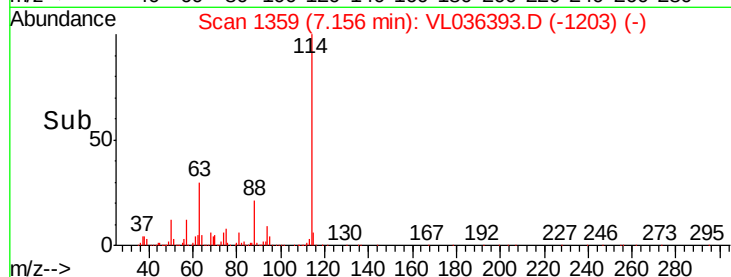
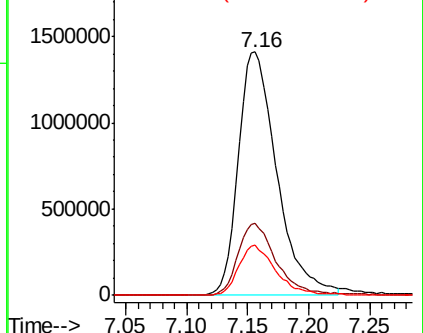
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VL036393.D
 Acq: 25 Feb 2021 22:36

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3088319
 Ion Ratio Lower Upper
 114 100
 63 30.2 24.1 36.1
 88 20.3 16.0 24.0

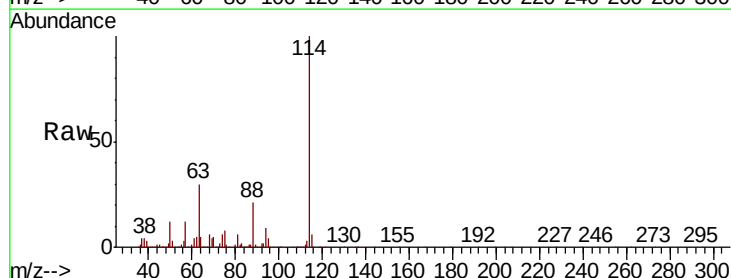


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

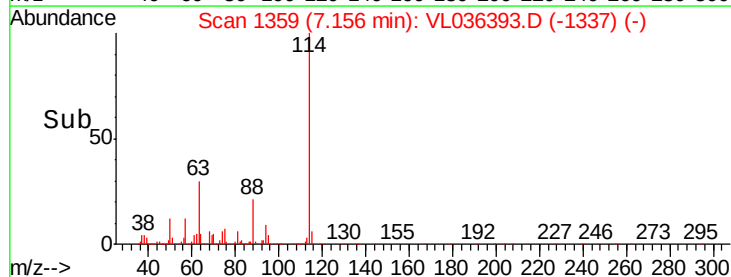
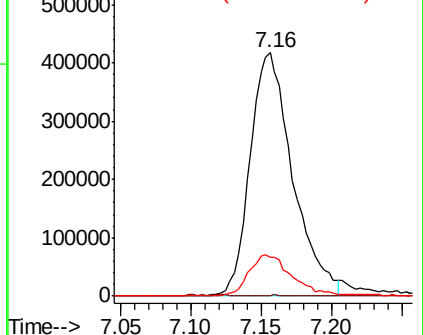


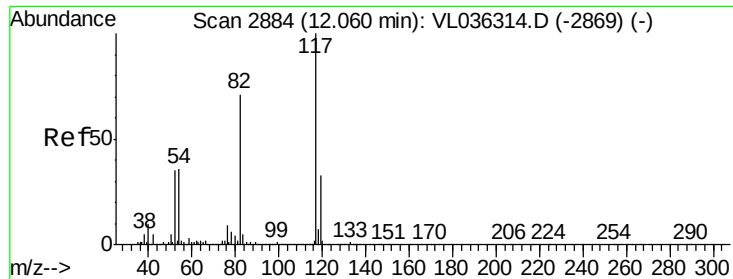
#39
 1,2-Dichloropropane
 Concen: 8.275 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.43 min
 Lab File: VL036393.D
 Acq: 25 Feb 2021 22:36

Tgt Ion: 63 Resp: 881900
 Ion Ratio Lower Upper
 63 100
 41 0.1 63.8 95.6#
 62 15.8 52.3 78.5#



Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

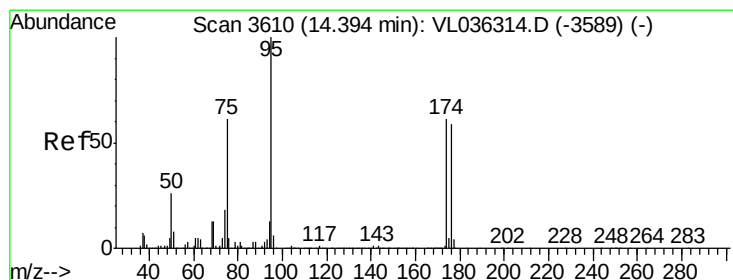
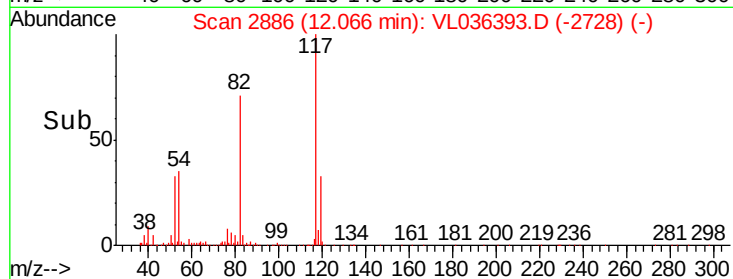
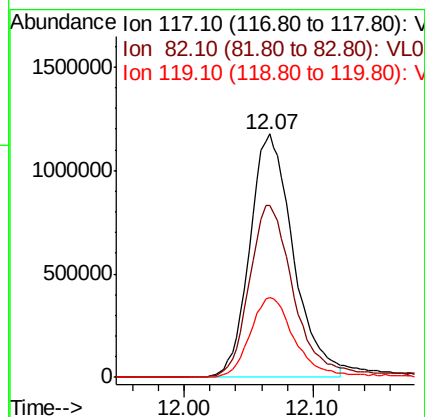
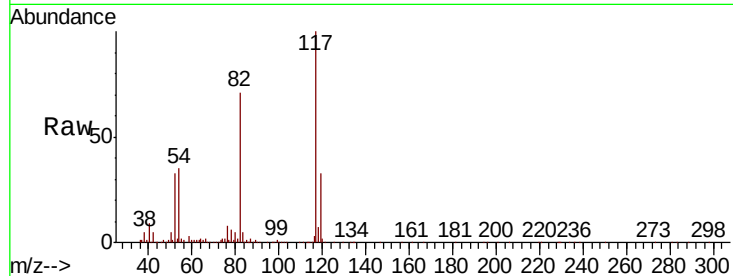




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.01 min
Lab File: VL036393.D
Acq: 25 Feb 2021 22:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2760550
Ion Ratio Lower Upper
117 100
82 76.4 59.1 88.7
119 34.8 46.3 69.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.367 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL036393.D
Acq: 25 Feb 2021 22:36

Tgt Ion: 95 Resp: 2354705
Ion Ratio Lower Upper
95 100
174 60.4 49.8 74.6
175 4.4 3.7 5.5

