

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038124.D
 Acq On : 24 Nov 2021 7:16
 Operator : SY/AP
 Sample : M4805-11DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-CURVY-BRIDE DL

Quant Time: Nov 26 04:19:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	828078	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2416973	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	2135153	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1629553	10.58	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.80%

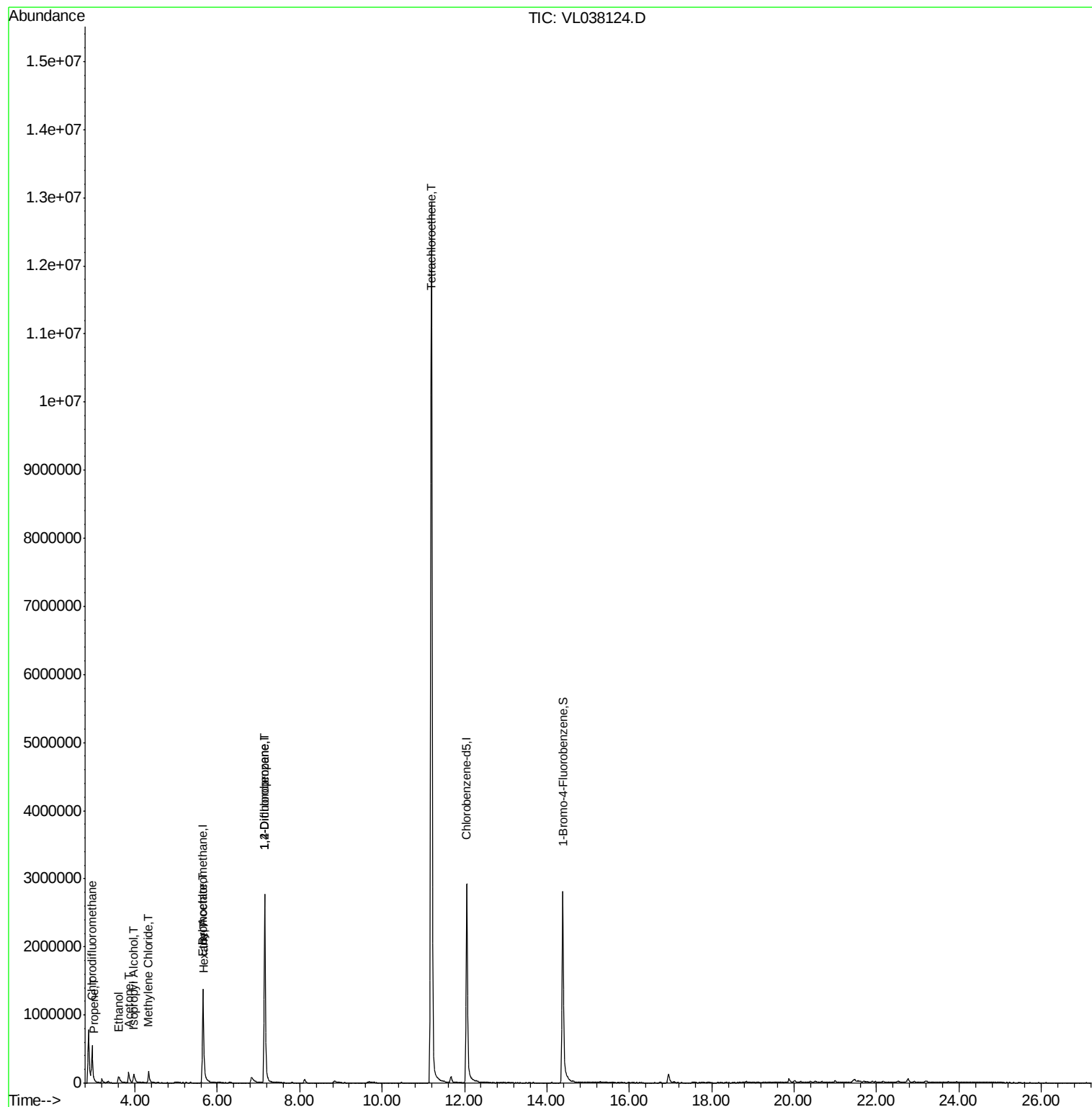
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	440384	2.532	ppbv #	61
9) Propene	3.01	41	5326	0.083	ppbv #	61
13) Ethanol	3.60	45	135839	21.948	ppbv	98
15) Acetone	3.85	43	209139	2.913	ppbv	98
19) Isopropyl Alcohol	3.97	45	169967	3.276	ppbv #	88
20) Methylene Chloride	4.34	84	70227	1.746	ppbv	88
25) Ethyl Acetate	5.66	43	13749	0.058	ppbv #	77
26) Hexane	5.67	57	37272	0.324	ppbv #	46
39) 1,2-Dichloropropane	7.15	63	603543	6.526	ppbv #	26
52) Tetrachloroethene	11.20	164	3850523	43.163	ppbv	98

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

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MSVOA_L
ClientSampleId :
SG-CURVY-BRIDE DL

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
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QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-CURVY-BRIDEGL

Acq: 24 Nov 2021 7:10

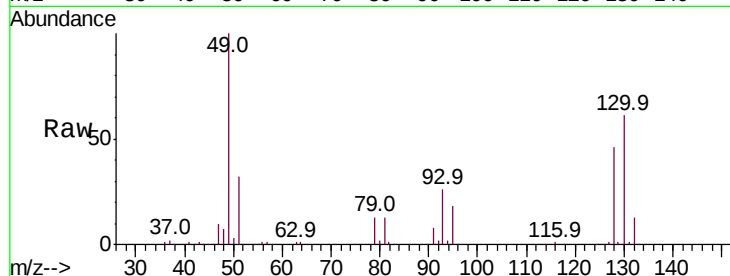
Tot Ion: 49 Resp: 828078

Ion Ratio Lower Upper

49 100

128 49.6 26.5 79.5

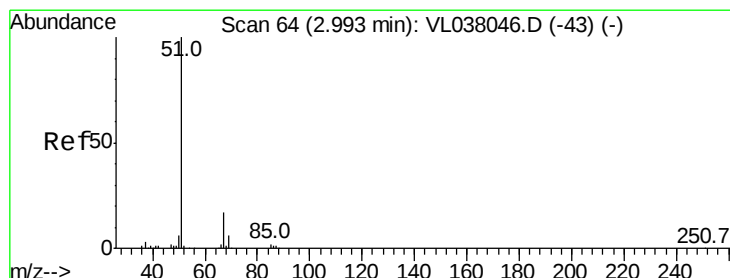
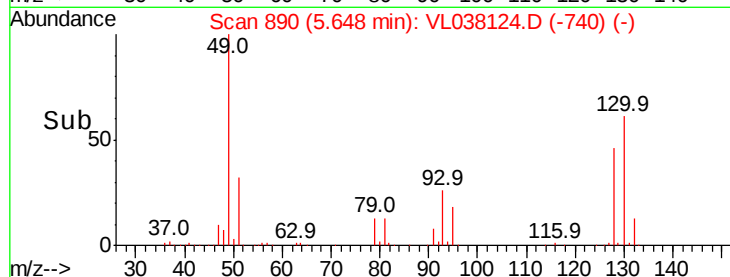
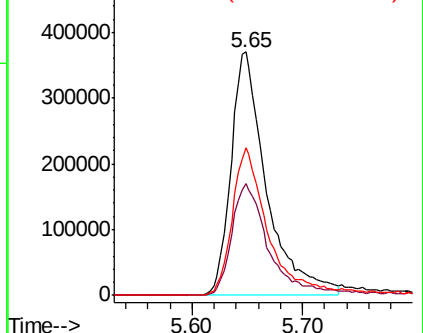
130 63.1 32.5 97.4



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



#3

Chlorodifluoromethane

Concen: 2.532 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL038124.D

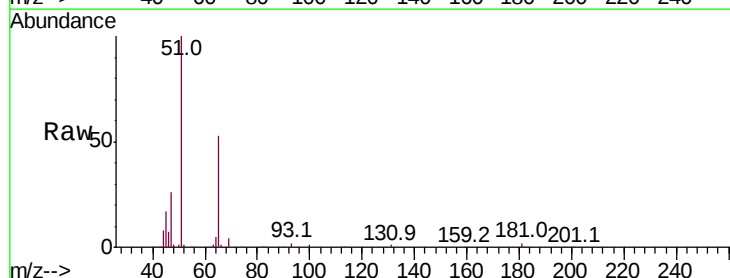
Acq: 24 Nov 2021 7:16

Tgt Ion: 51 Resp: 440384

Ion Ratio Lower Upper

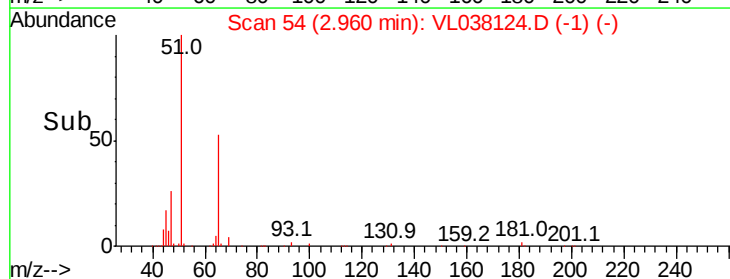
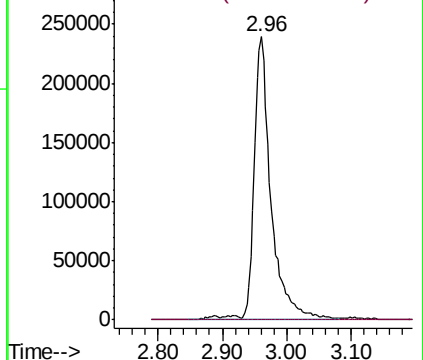
51 100

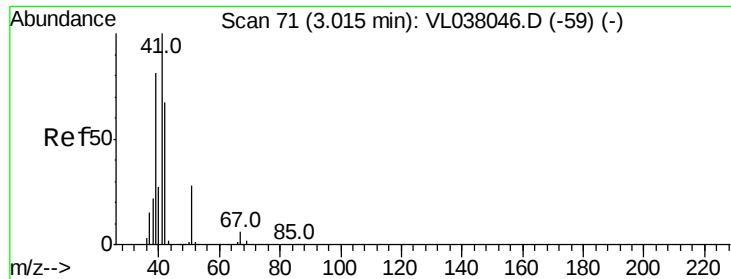
67 0.1 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.083 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

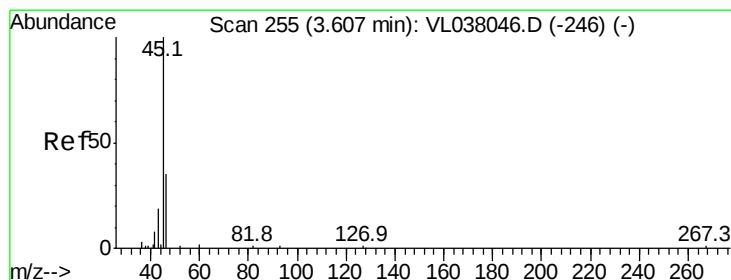
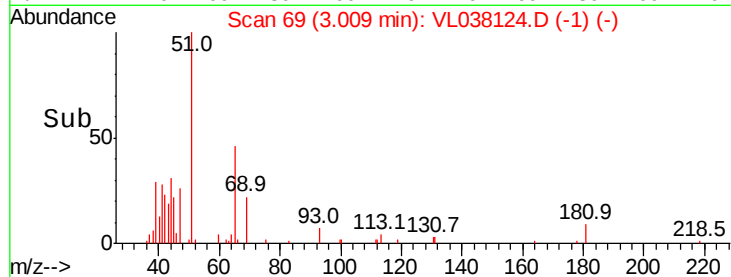
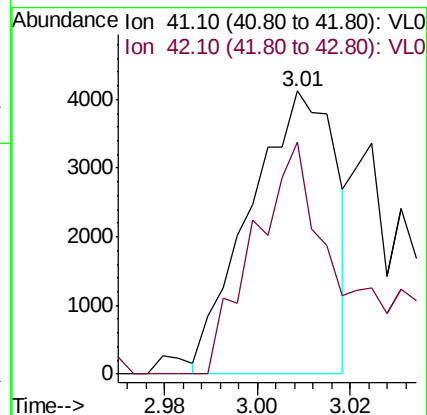
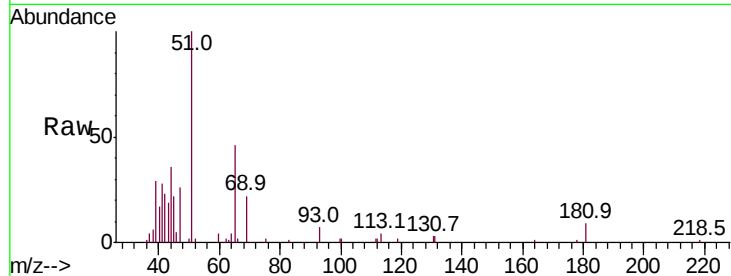
Acq: 24 Nov 2021 7:10 SG-CURVY-BRIDEL

Tot Ion: 41 Resp: 5326

Ion Ratio Lower Upper

41 100

42 98.8 53.8 80.8#



#13

Ethanol

Concen: 21.948 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL038124.D

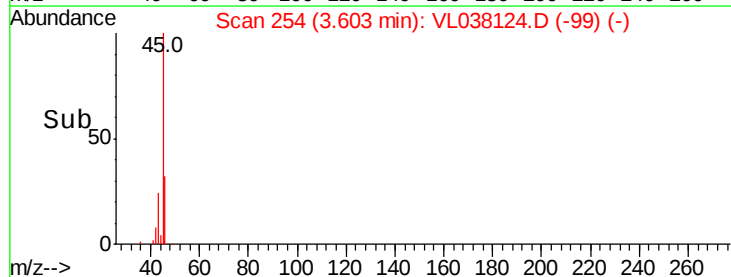
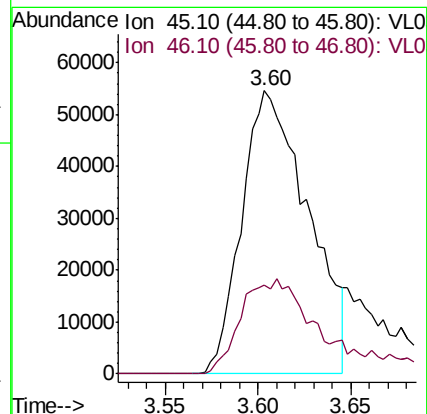
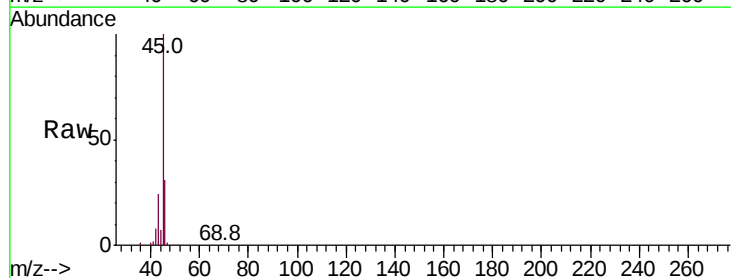
Acq: 24 Nov 2021 7:16

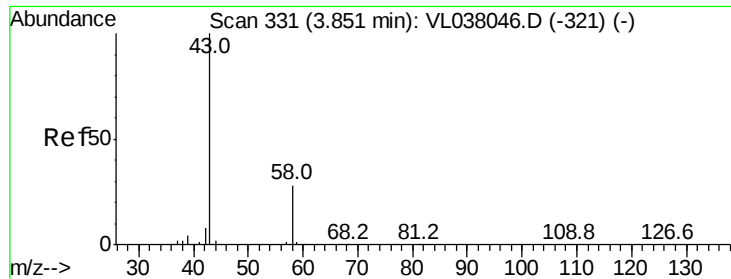
Tgt Ion: 45 Resp: 135839

Ion Ratio Lower Upper

45 100

46 44.9 17.6 70.2





#15

Acetone

Concen: 2.913 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

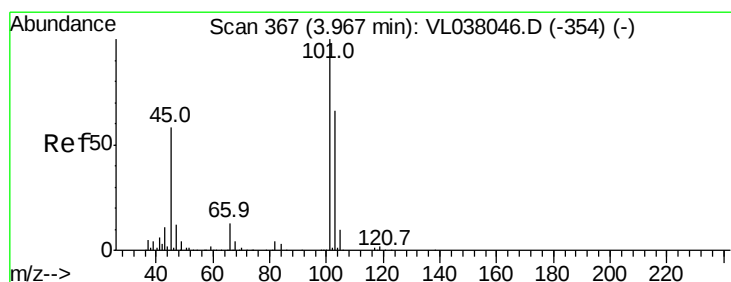
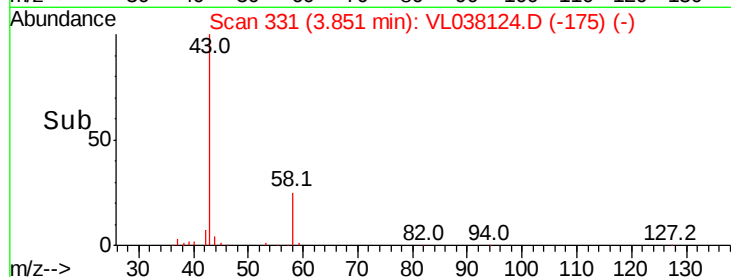
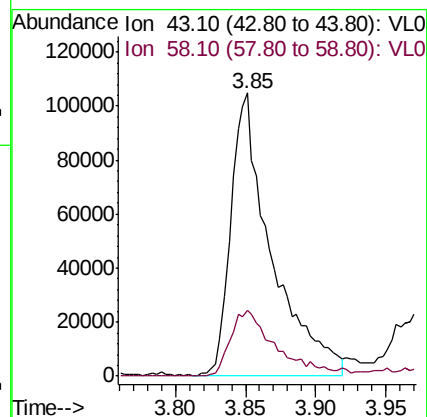
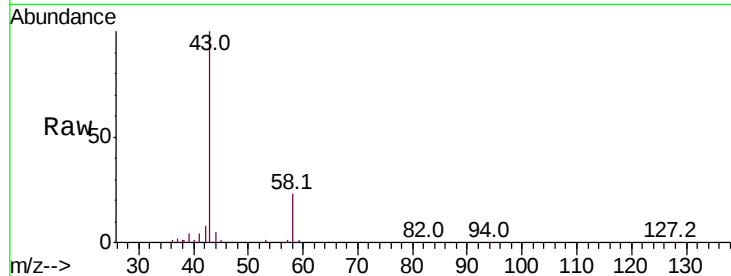
Acq: 24 Nov 2021 7:10 SG-CURVY-BRIDE DL

Tot Ion: 43 Resp: 209139

Ion Ratio Lower Upper

43 100

58 27.1 22.4 33.6



#19

Isopropyl Alcohol

Concen: 3.276 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL038124.D

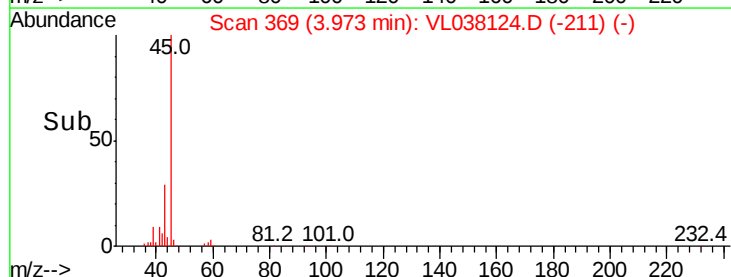
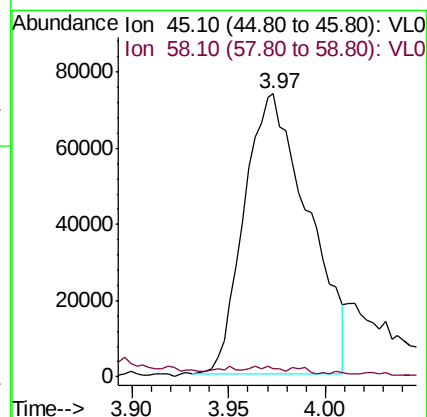
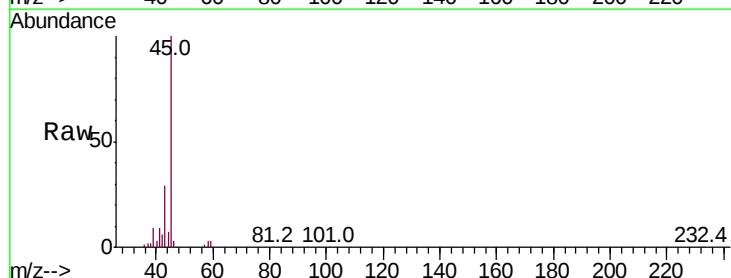
Acq: 24 Nov 2021 7:16

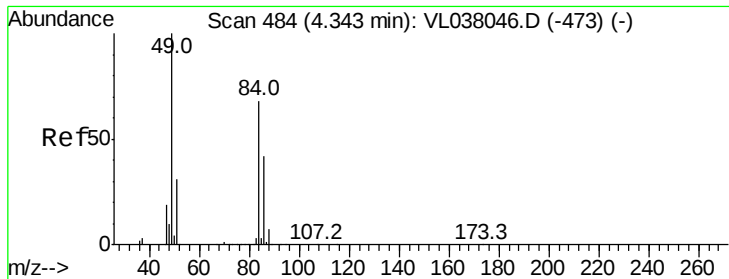
Tgt Ion: 45 Resp: 169967

Ion Ratio Lower Upper

45 100

58 6.0 1.4 2.0#





#20

Methylene Chloride

Concen: 1.746 ppbv

RT: 4.34

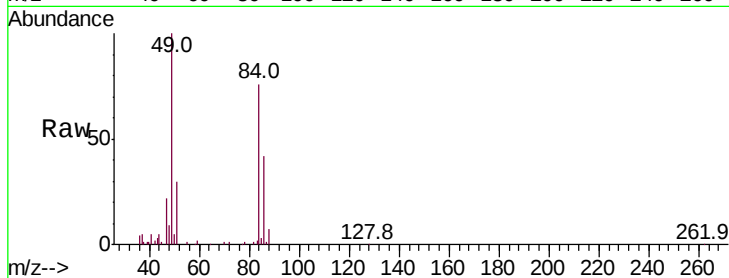
Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-CURVY-BRIDEDL

Acq: 24 Nov 2021 7:10

Tot Ion:	84	Resp:	70227
Ion	Ratio	Lower	Upper
84	100		
49	131.1	118.2	177.2
51	37.9	36.8	55.2
86	54.7	49.0	73.6



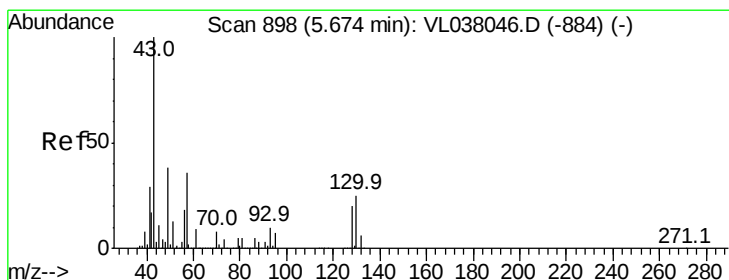
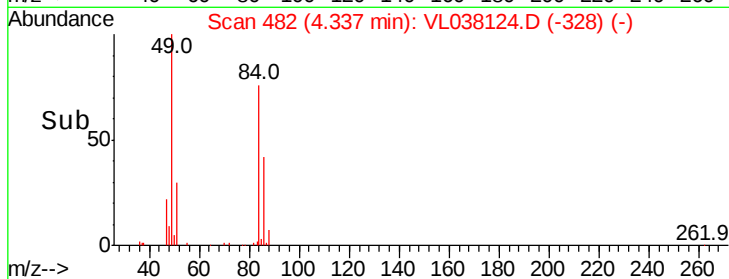
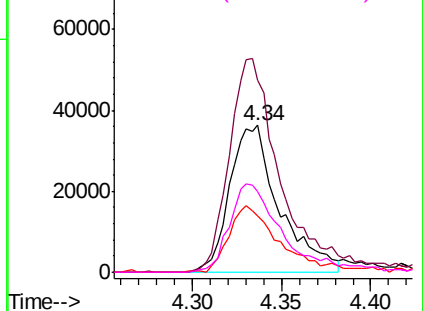
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25

Ethyl Acetate

Concen: 0.058 ppbv

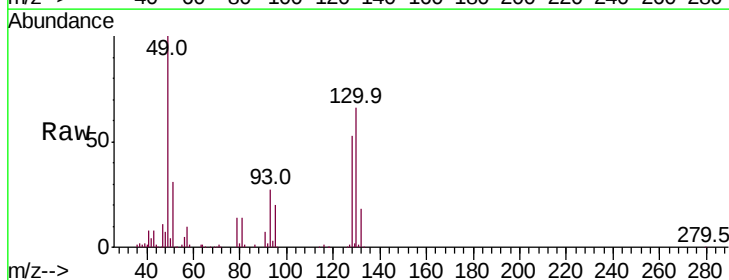
RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL038124.D

Acq: 24 Nov 2021 7:16

Tgt Ion:	43	Resp:	13749
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	1.8	7.8	11.6#
70	0.0	5.8	8.8#



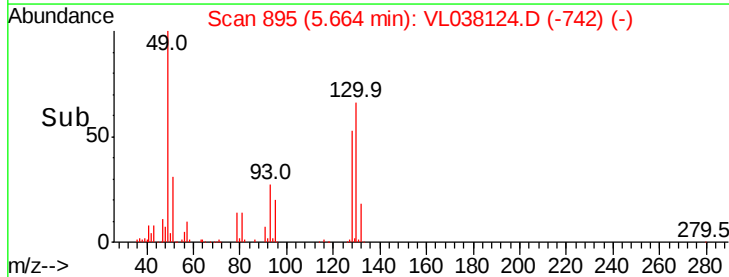
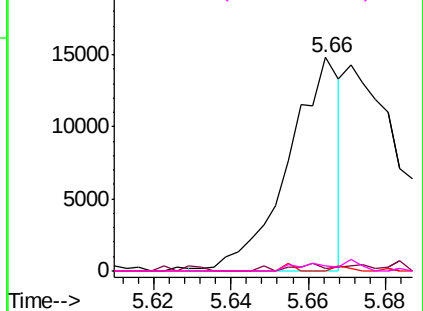
Abundance

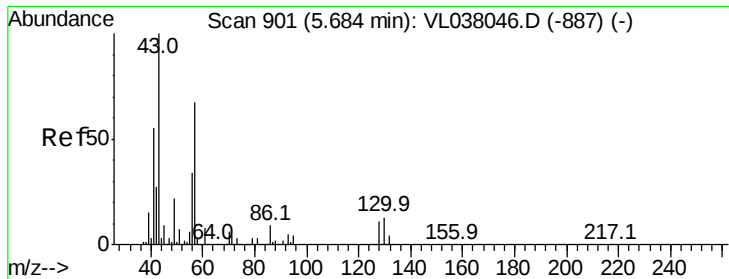
Ion 43.10 (42.80 to 43.80): VL0

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: 0.324 ppbv

RT: 5.67 Instrument:

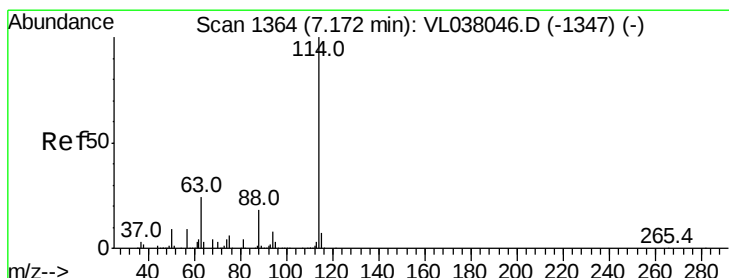
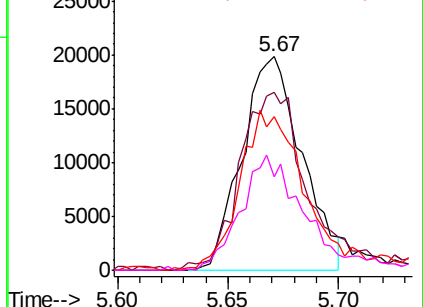
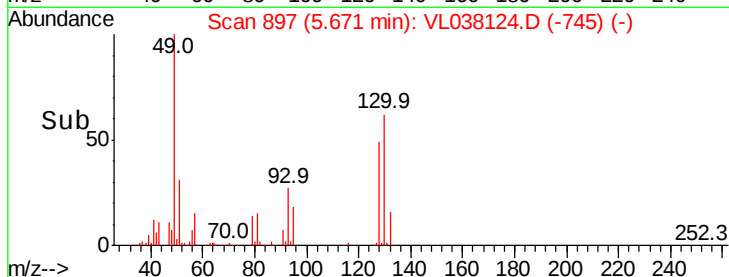
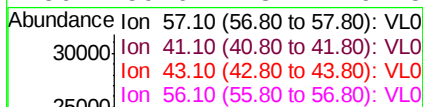
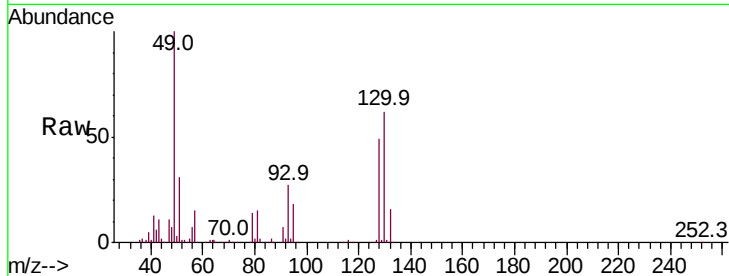
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 24 Nov 2021 7:16 SG-CURVY-BRIDEDL

Tot Ion: 57 Resp: 37272

Ion	Ratio	Lower	Upper
57	100		
41	101.7	71.4	107.2
43	85.5	174.6	261.8#
56	59.6	43.2	64.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

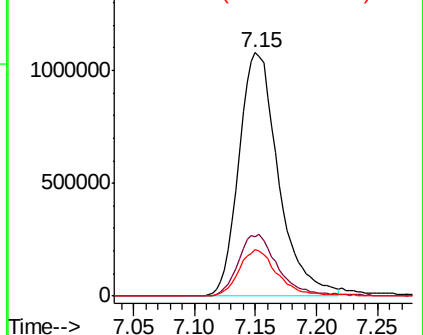
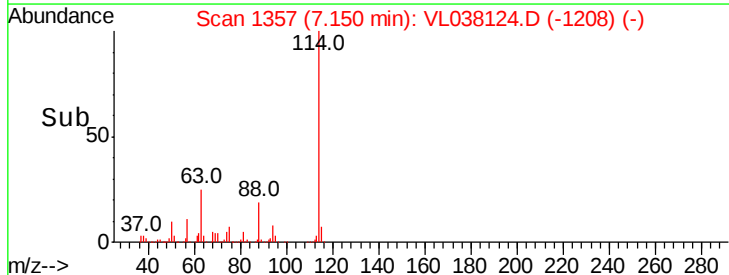
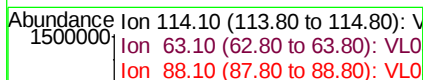
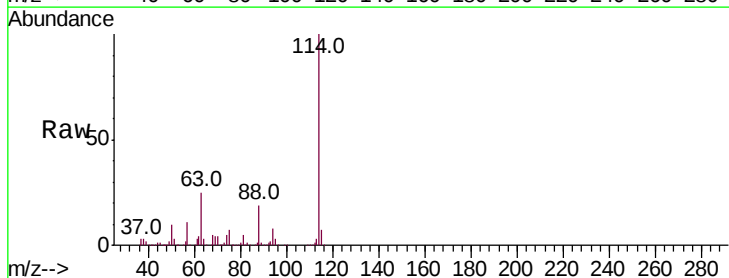
Delta R.T. -0.02 min

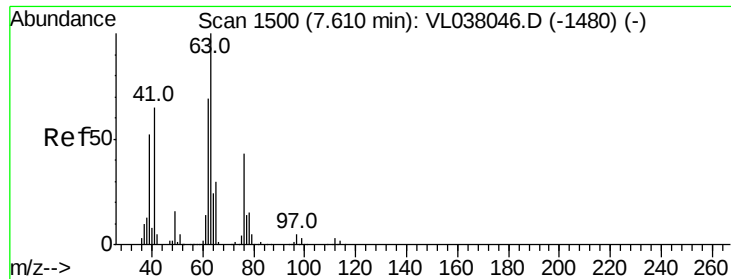
Lab File: VL038124.D

Acq: 24 Nov 2021 7:16

Tgt Ion:114 Resp: 2416973

Ion	Ratio	Lower	Upper
114	100		
63	25.8	19.7	29.5
88	18.9	14.4	21.6





#39

1,2-Dichloropropane

Concen: 6.526 ppbv

RT: 7.15 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 24 Nov 2021 7:16

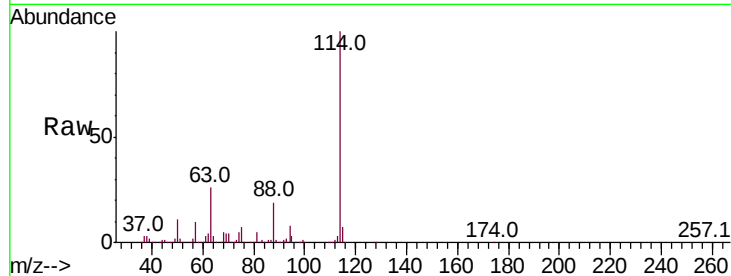
Tot Ion: 63 Resp: 603543

Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

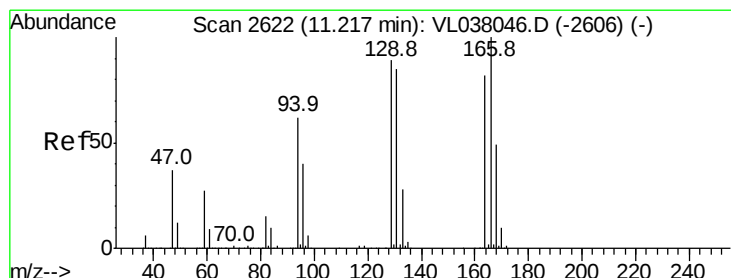
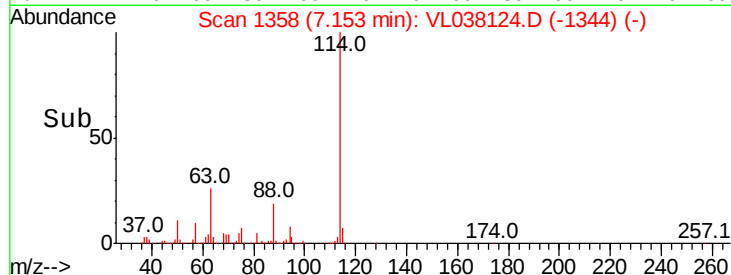
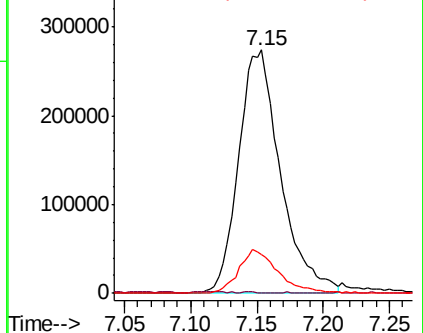
62 15.9 55.1 82.7#



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



#52

Tetrachloroethene

Concen: 43.163 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.02 min

Lab File: VL038124.D

Acq: 24 Nov 2021 7:16

Tgt Ion:164 Resp: 3850523

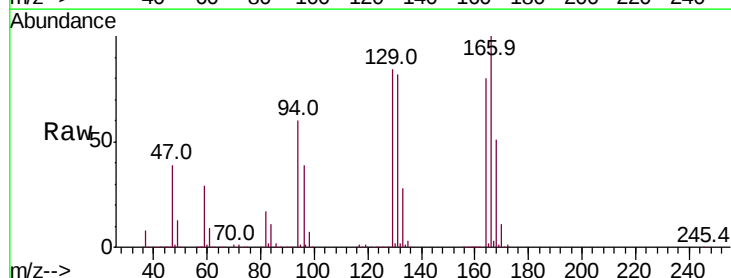
Ion Ratio Lower Upper

164 100

166 125.3 97.2 145.8

129 105.4 86.9 130.3

131 102.6 82.8 124.2

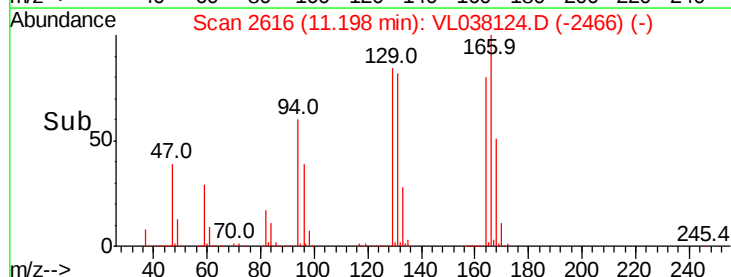
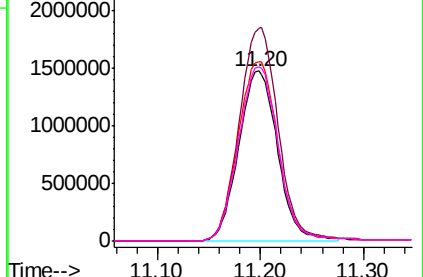


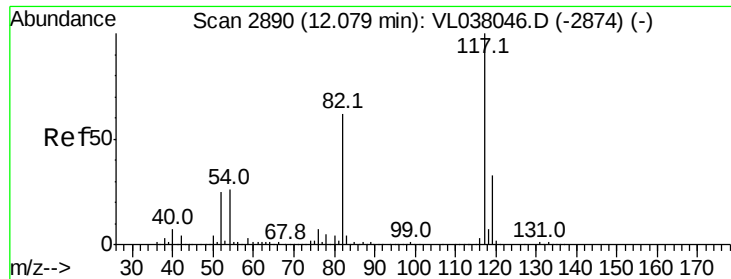
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

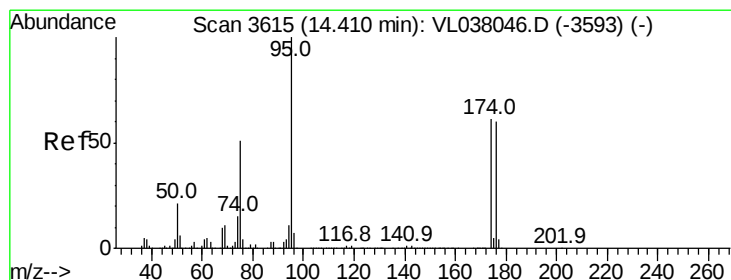
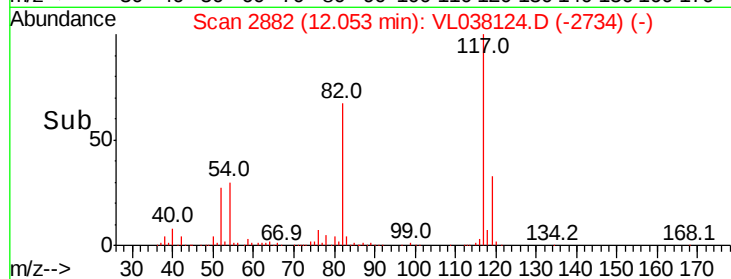
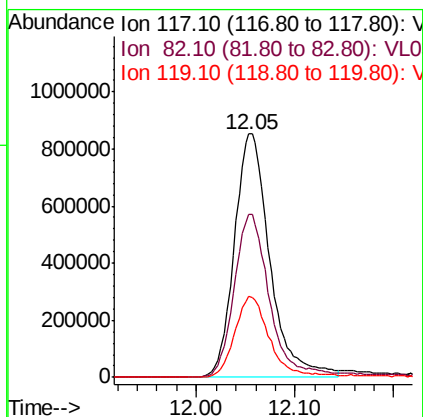
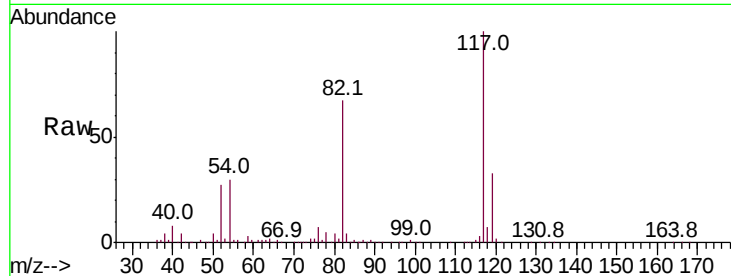
Ion 131.00 (130.70 to 131.70): V





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.05 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SG-CURVY-BRIDEGL
Acq: 24 Nov 2021 7:10

Tot Ion:117 Resp: 2135153
Ion Ratio Lower Upper
117 100
82 70.6 52.8 79.2
119 34.3 26.8 40.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.581 ppbv
RT: 14.38 min Scan# 3607
Delta R.T.: -0.03 min
Lab File: VL038124.D
Acq: 24 Nov 2021 7:16

Tgt Ion: 95 Resp: 1629553
Ion Ratio Lower Upper
95 100
174 64.3 53.1 79.7
175 4.6 4.0 6.0

