

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037921.D
 Acq On : 27 Oct 2021 18:21
 Operator : SY/AP
 Sample : M4377-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FIRE-PUMP-ROOM-1ADL

Quant Time: Oct 28 05:18:54 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1372217	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	4010242	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3470516	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2259658	9.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

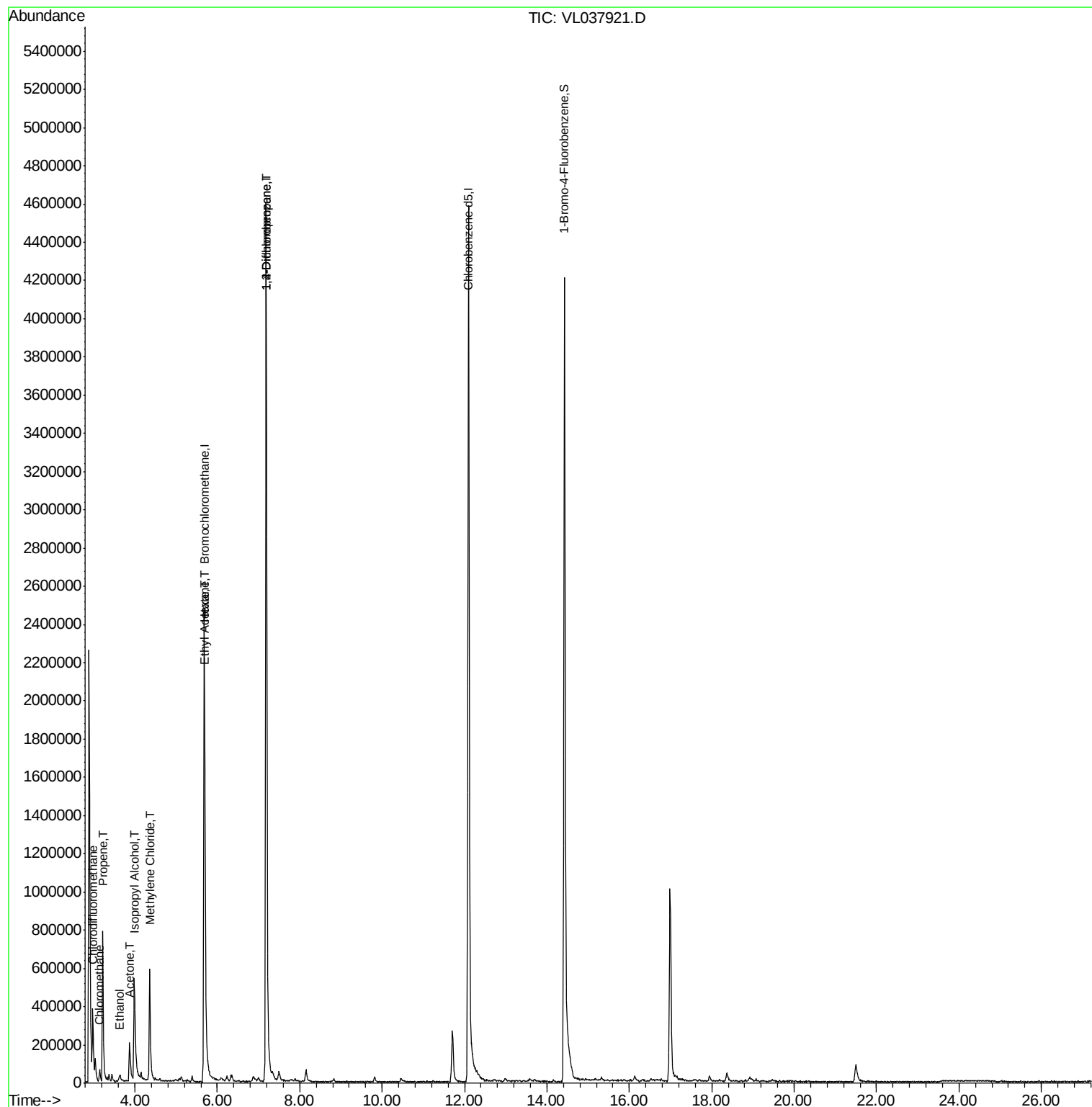
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	291616	1.106	ppbv #	63
4) Chloromethane	3.15	50	4055	0.042	ppbv	93
9) Propene	3.22	41	270374	2.787	ppbv	96
13) Ethanol	3.63	45	35151	4.431	ppbv	74
15) Acetone	3.87	43	261539	2.123	ppbv	99
19) Isopropyl Alcohol	3.98	45	686150	8.953	ppbv #	93
20) Methylene Chloride	4.36	84	238427	3.831	ppbv	98
25) Ethyl Acetate	5.70	43	145624	0.421	ppbv #	80
26) Hexane	5.70	57	190833	1.121	ppbv #	43
39) 1,2-Dichloropropane	7.19	63	923409	7.167	ppbv #	29

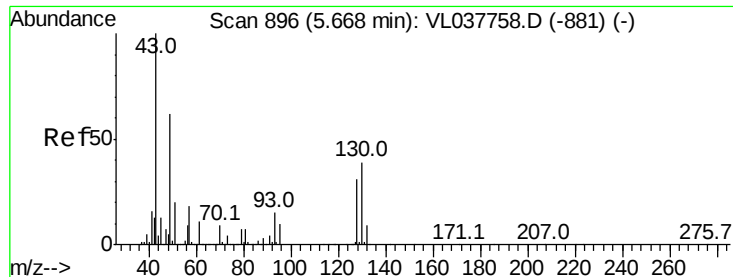
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 18:21

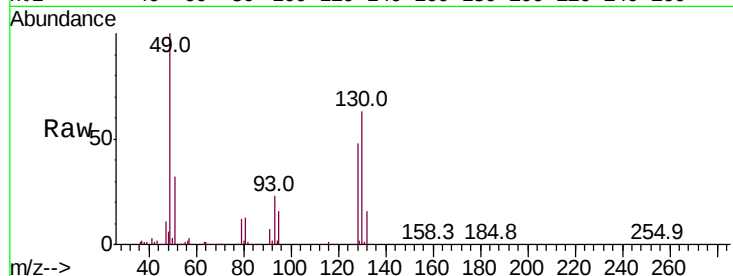
Tot Ion: 49 Resp: 1372217

Ion Ratio Lower Upper

49 100

128 54.1 27.1 81.3

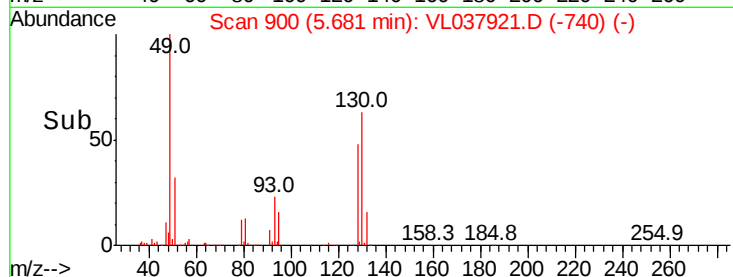
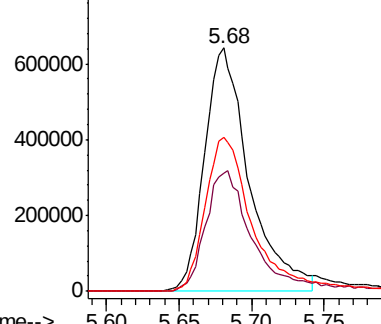
130 69.9 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 1.106 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037921.D

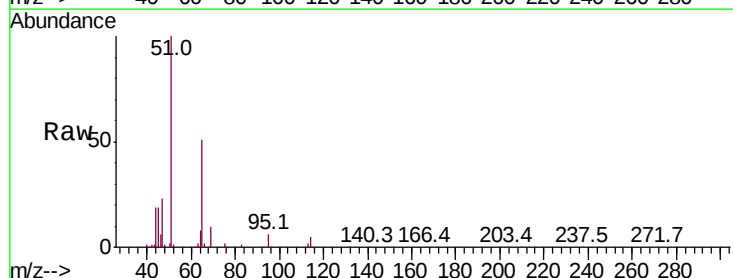
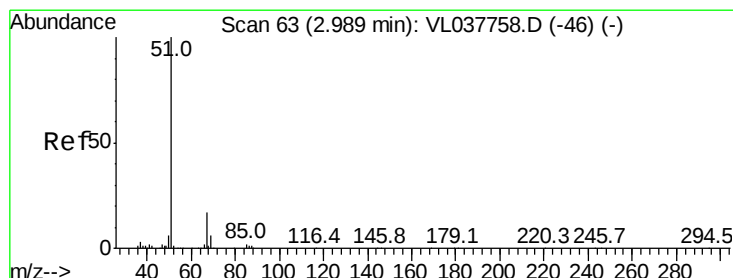
Acq: 27 Oct 2021 18:21

Tgt Ion: 51 Resp: 291616

Ion Ratio Lower Upper

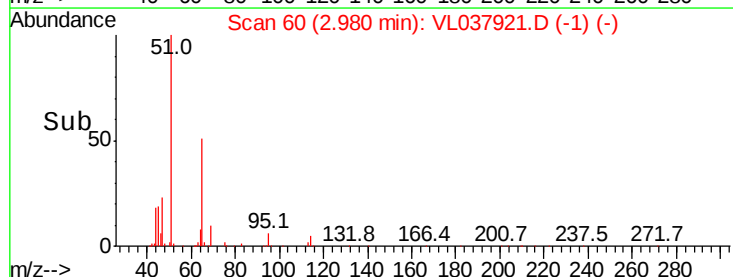
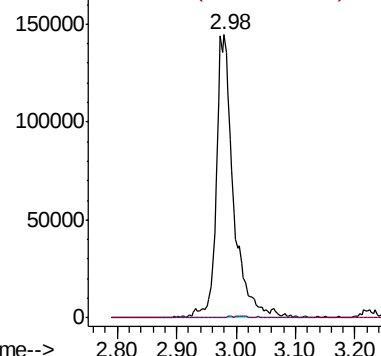
51 100

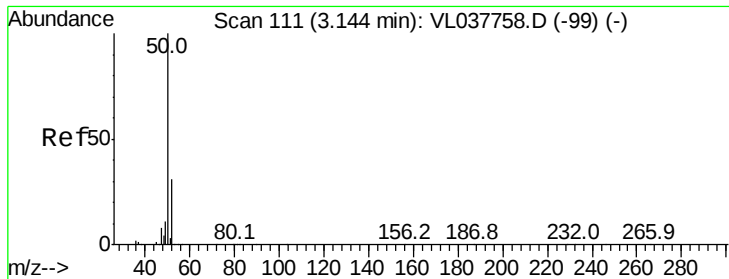
67 0.7 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.042 ppbv

RT: 3.15 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: FIRE-PUMP-ROOM-1ADL

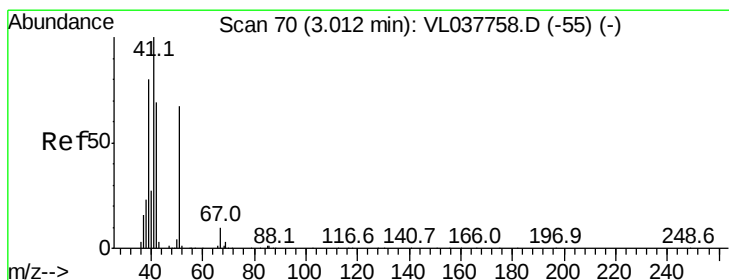
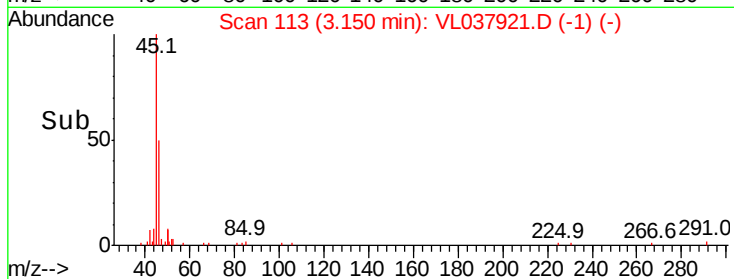
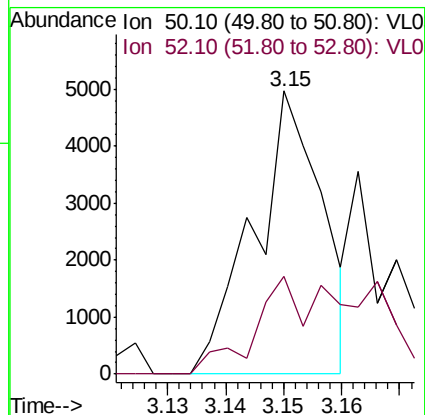
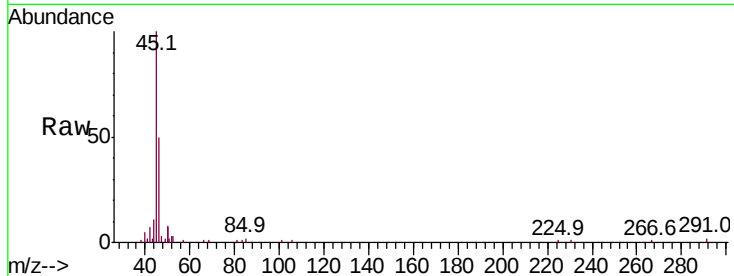
Acq: 27 Oct 2021 18:21

Tot Ion: 50 Resp: 4055

Ion Ratio Lower Upper

50 100

52 34.5 24.4 36.6



#9

Propene

Concen: 2.787 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.21 min

Lab File: VL037921.D

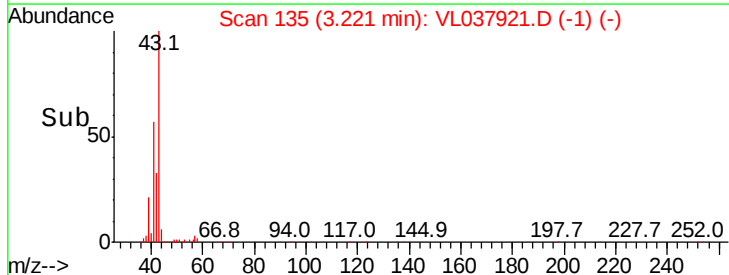
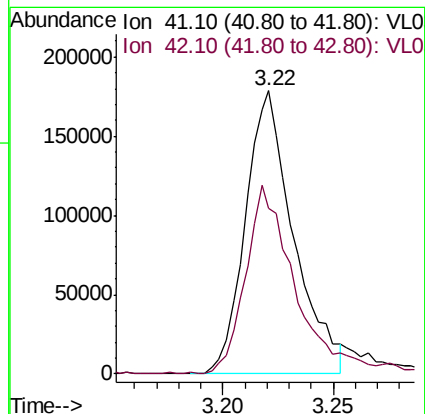
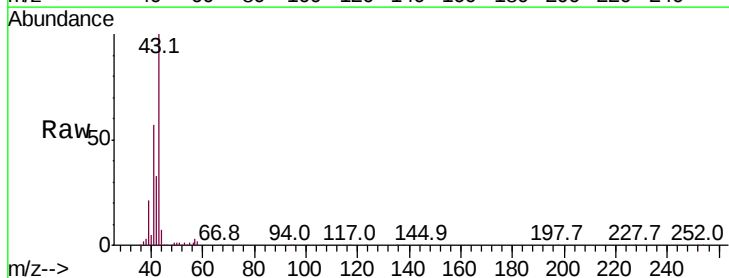
Acq: 27 Oct 2021 18:21

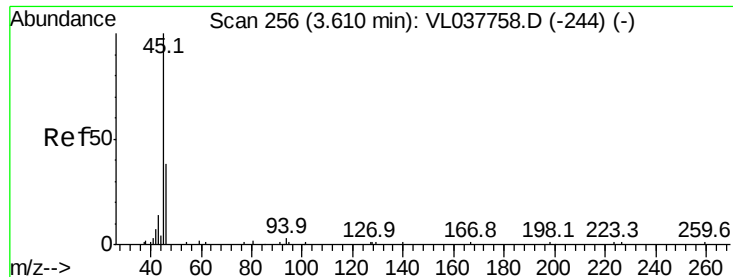
Tgt Ion: 41 Resp: 270374

Ion Ratio Lower Upper

41 100

42 71.1 54.2 81.2





#13

Ethanol

Concen: 4.431 ppbv

RT: 3.63

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

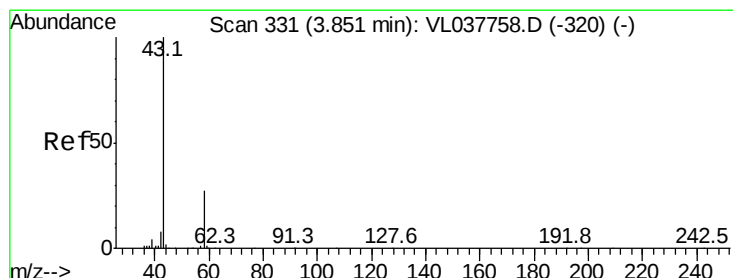
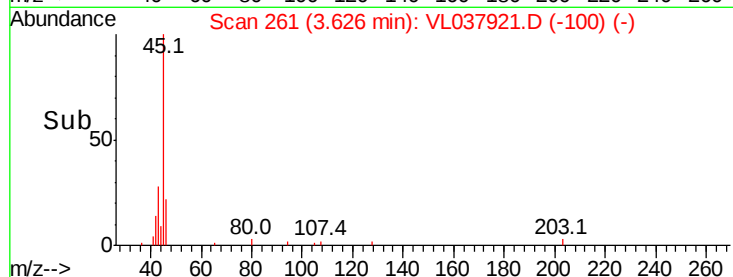
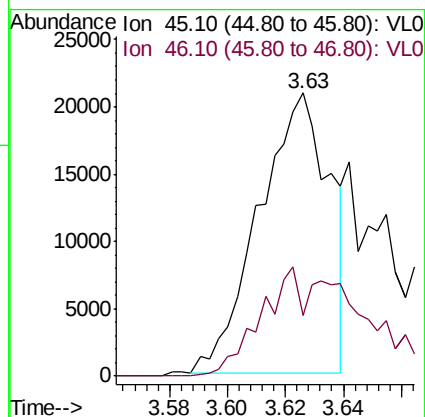
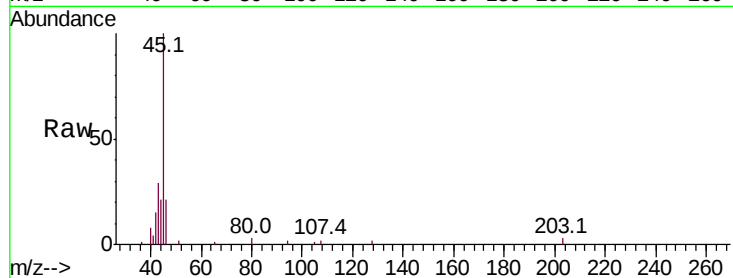
Acq: 27 Oct 2021 18:21

Tot Ion: 45 Resp: 35151

Ion Ratio Lower Upper

45 100

46 68.5 20.2 81.0



#15

Acetone

Concen: 2.123 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.02 min

Lab File: VL037921.D

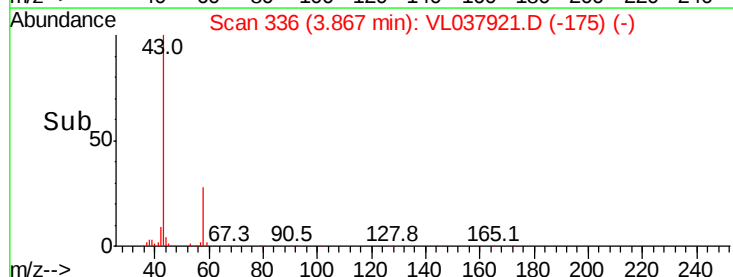
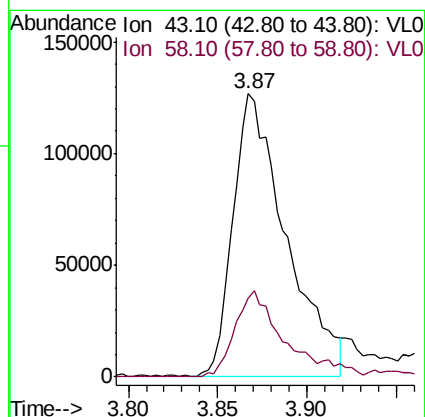
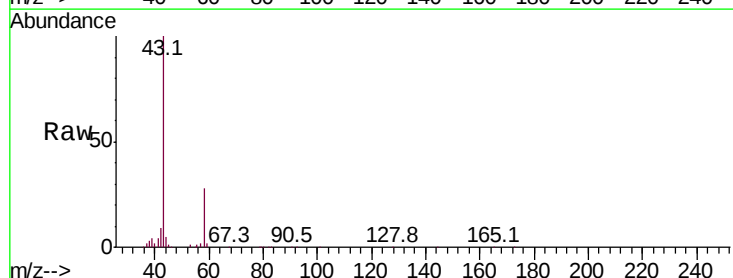
Acq: 27 Oct 2021 18:21

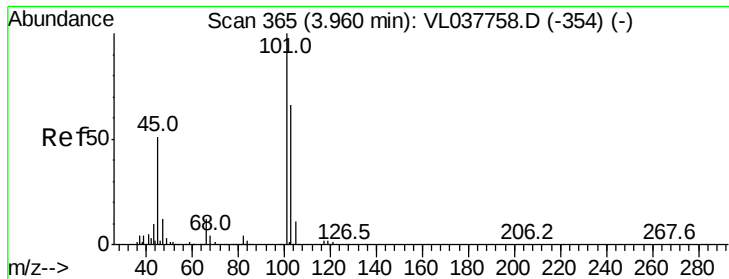
Tgt Ion: 43 Resp: 261539

Ion Ratio Lower Upper

43 100

58 29.6 23.0 34.6





#19

Isopropyl Alcohol

Concen: 8.953 ppbv

RT: 3.98 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: FIRE-PUMP-ROOM-1ADL

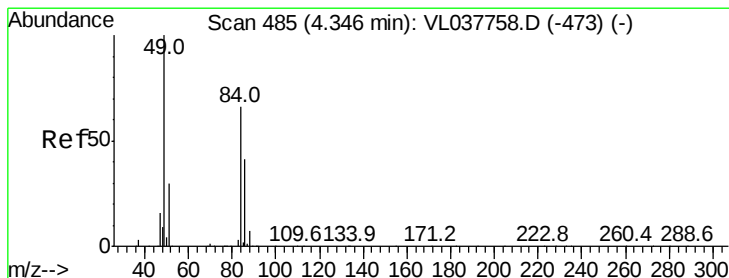
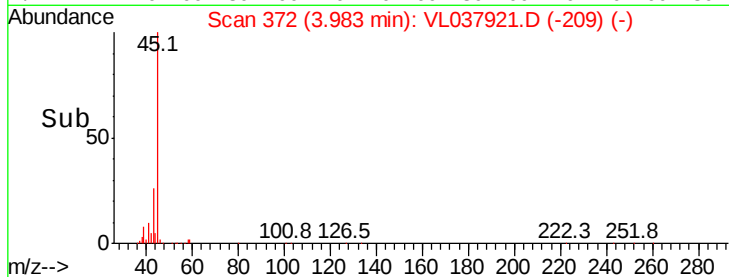
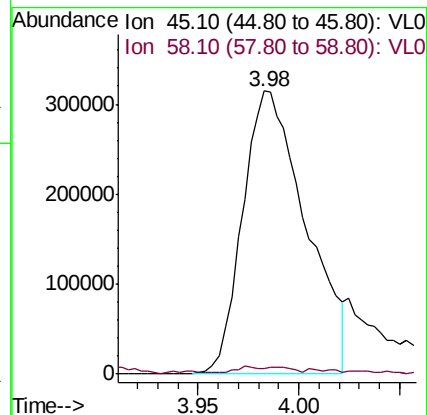
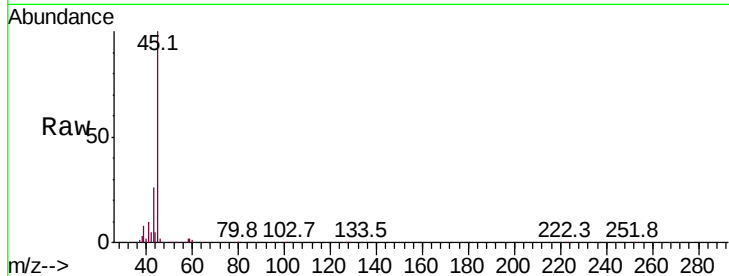
Acq: 27 Oct 2021 18:21

Tot Ion: 45 Resp: 686150

Ion Ratio Lower Upper

45 100

58 4.2 1.1 1.7#



#20

Methylene Chloride

Concen: 3.831 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.01 min

Lab File: VL037921.D

Acq: 27 Oct 2021 18:21

Tgt Ion: 84 Resp: 238427

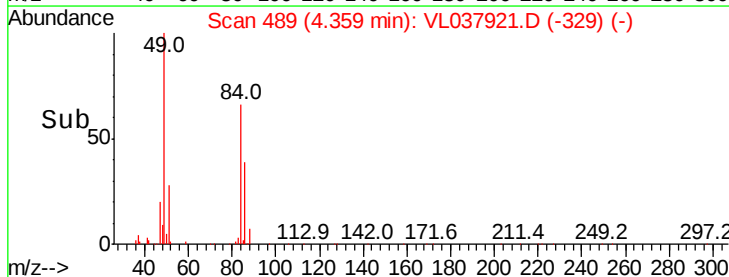
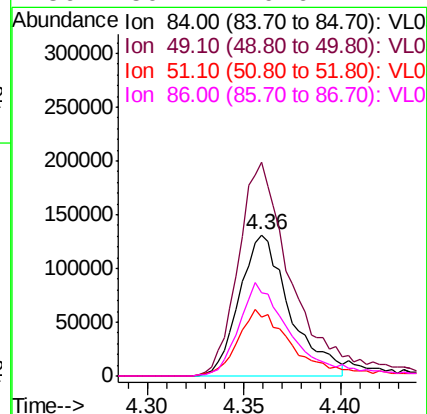
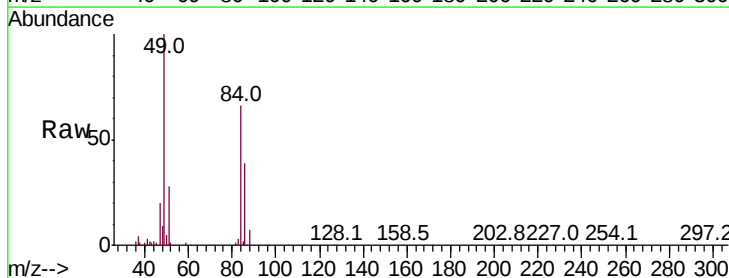
Ion Ratio Lower Upper

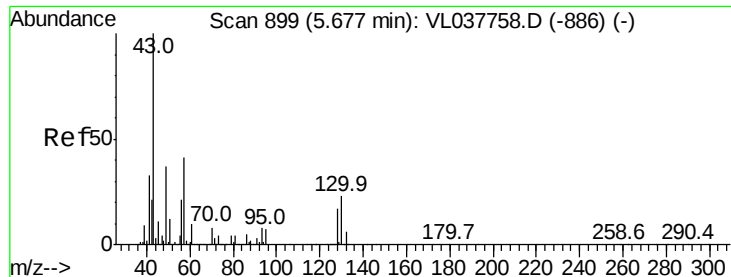
84 100

49 150.8 120.7 181.1

51 41.3 36.2 54.4

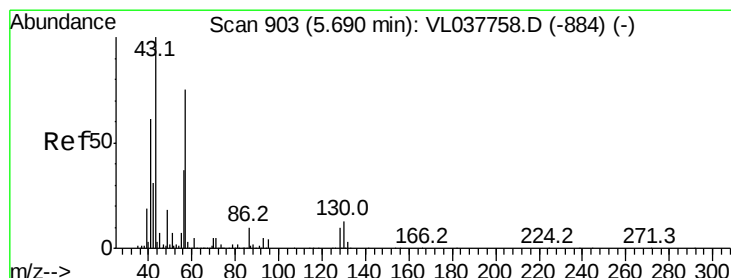
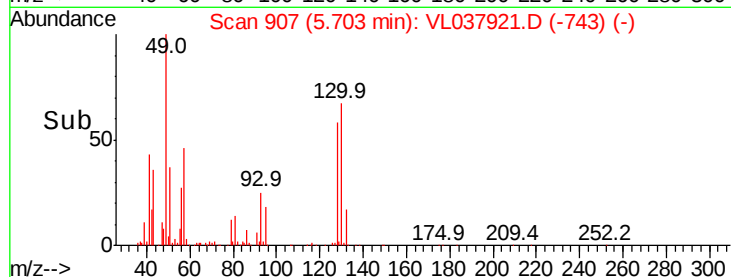
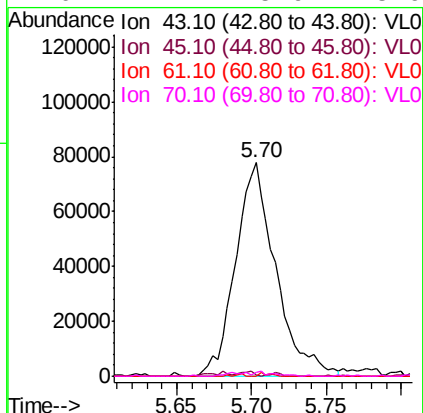
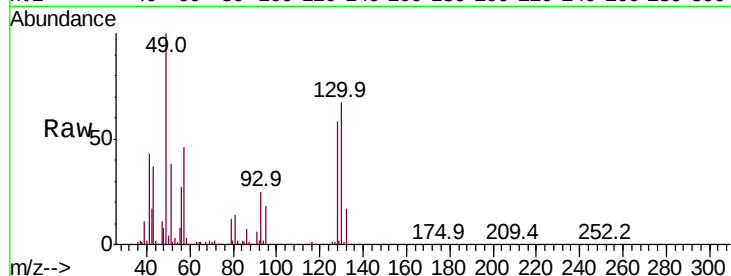
86 59.2 49.6 74.4





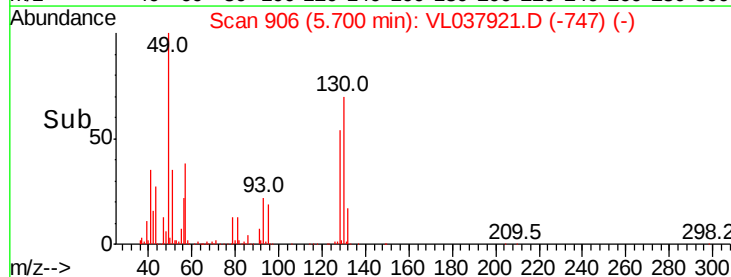
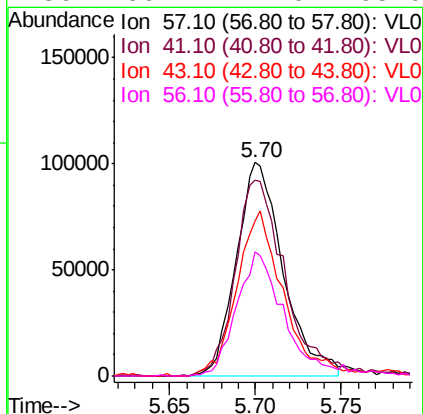
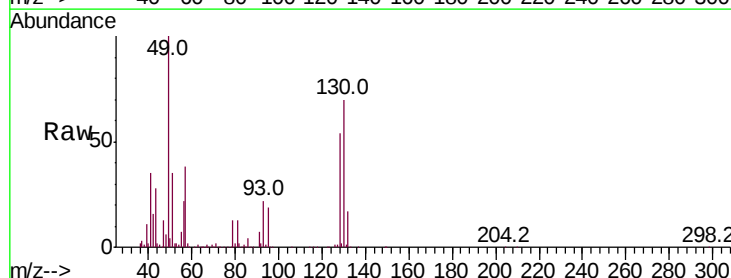
#25
Ethyl Acetate
Concen: 0.421 ppbv
RT: 5.70 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 27 Oct 2021 18:21
FIRE-PUMP-ROOM-1ADL

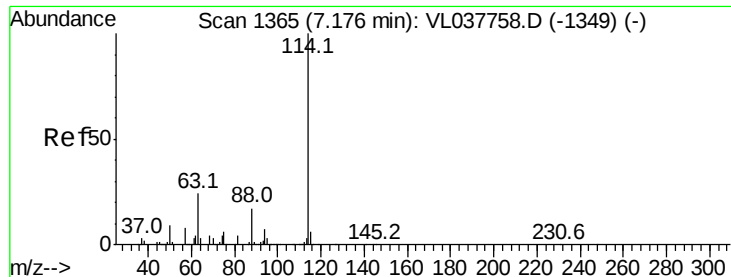
Tot Ion:	43	Resp:	145624
Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.1	12.1#
61	0.8	7.5	11.3#
70	2.1	5.9	8.9#



#26
Hexane
Concen: 1.121 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL037921.D
Acq: 27 Oct 2021 18:21

Tgt Ion:	57	Resp:	190833
Ion	Ratio	Lower	Upper
57	100		
41	99.5	69.6	104.4
43	79.4	171.4	257.0#
56	60.4	42.0	63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 Instrument: MSVOA_1

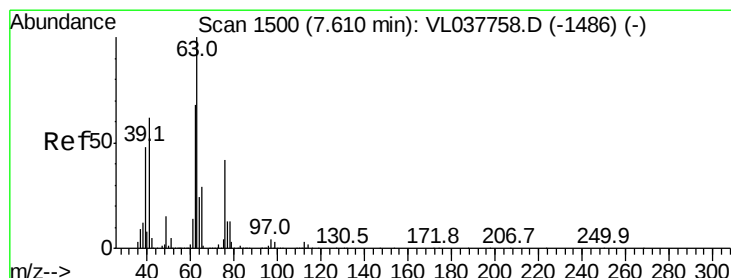
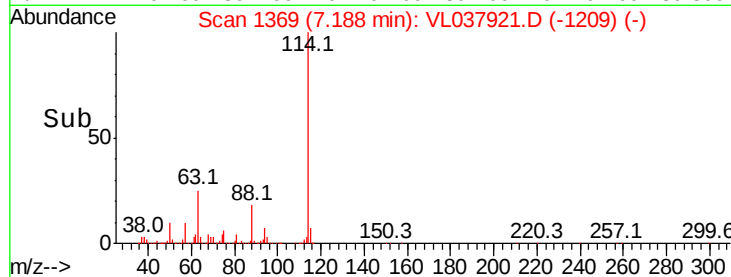
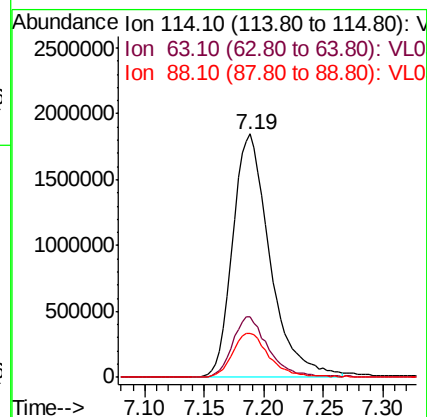
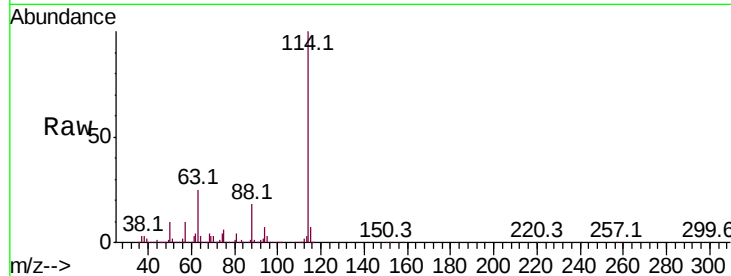
Delta R.T. ClientSampleId:

Lab File: FIRE-PUMP-ROOM-1ADL

Acq: 27 Oct 2021 18:21

Tot Ion:114 Resp: 4010242

Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.4	29.2
88	18.2	14.4	21.6



#39

1,2-Dichloropropane

Concen: 7.167 ppbv

RT: 7.19 min Scan# 1368

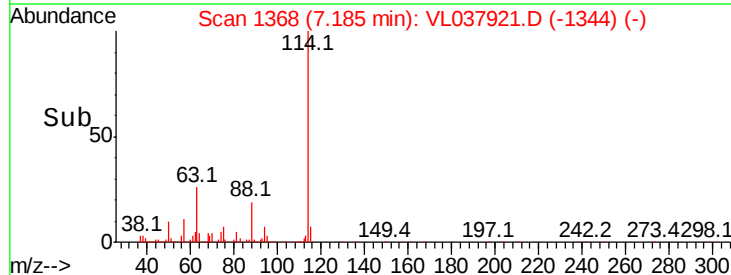
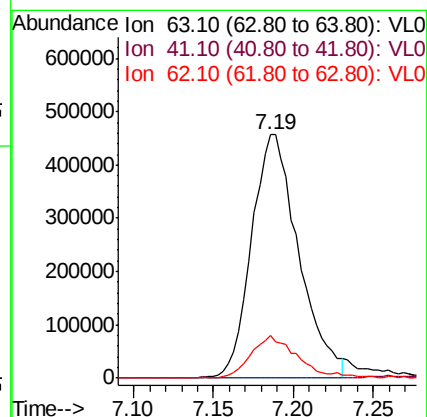
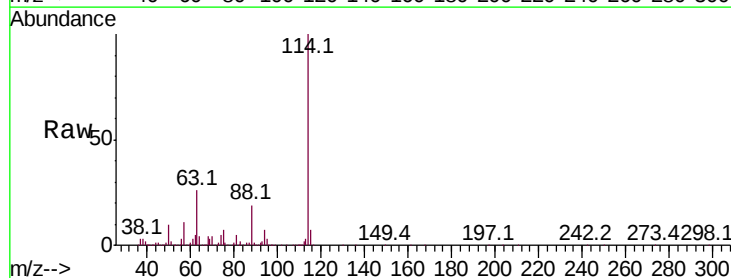
Delta R.T. -0.42 min

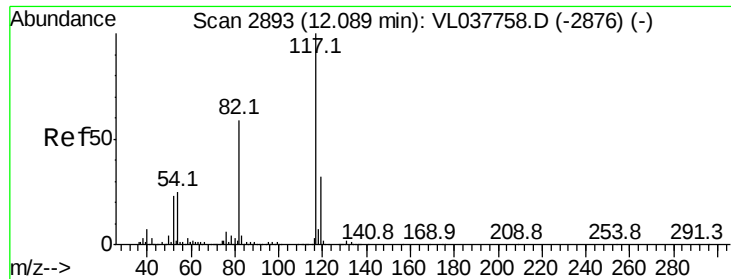
Lab File: VL037921.D

Acq: 27 Oct 2021 18:21

Tgt Ion: 63 Resp: 923409

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	17.7	54.6	82.0#

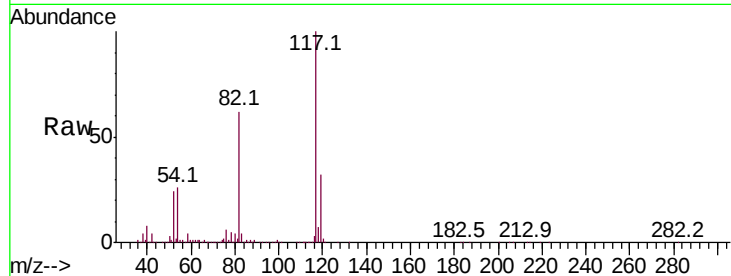




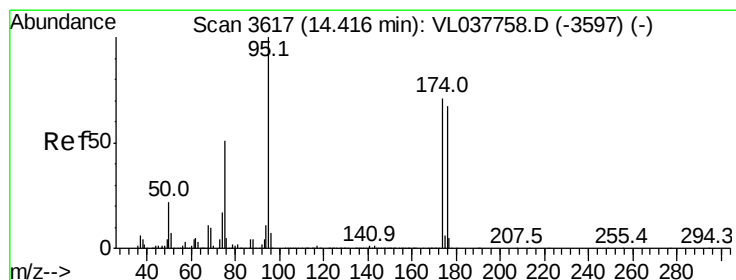
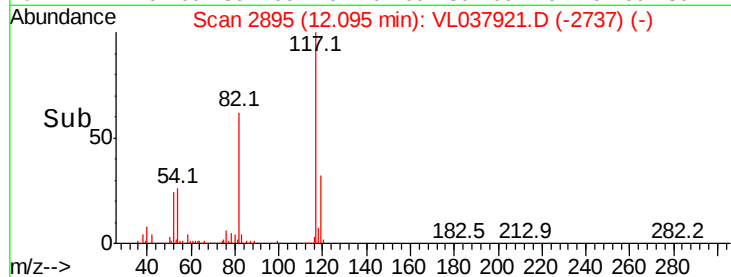
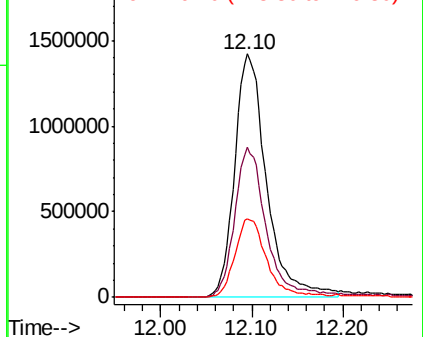
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.: 0.01 min
Lab File: ClientSampleId :
Acq: 27 Oct 2021 18:21
FIRE-PUMP-ROOM-1ADL

Tot Ion: 117 Resp: 3470516

Ion	Ratio	Lower	Upper
117	100		
82	63.5	52.2	78.2
119	33.4	26.0	39.0



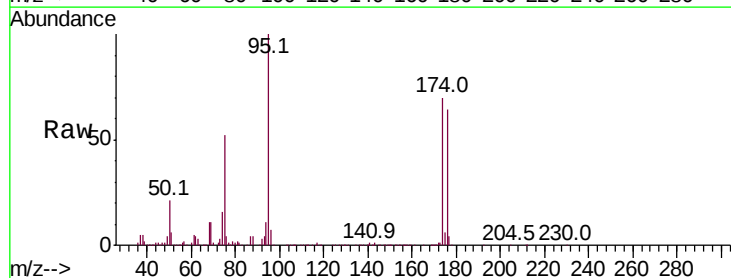
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.311 ppbv
RT: 14.43 min Scan# 3620
Delta R.T.: 0.01 min
Lab File: VL037921.D
Acq: 27 Oct 2021 18:21

Tgt Ion: 95 Resp: 2259658

Ion	Ratio	Lower	Upper
95	100		
174	77.2	57.8	86.6
175	5.4	4.7	7.1



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

