

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036751.D
 Acq On : 8 Apr 2021 15:19
 Operator : SY/AP
 Sample : M1981-01DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Quant Time: Apr 09 08:39:03 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1169151	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2847394	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2423752	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1775720	9.19	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

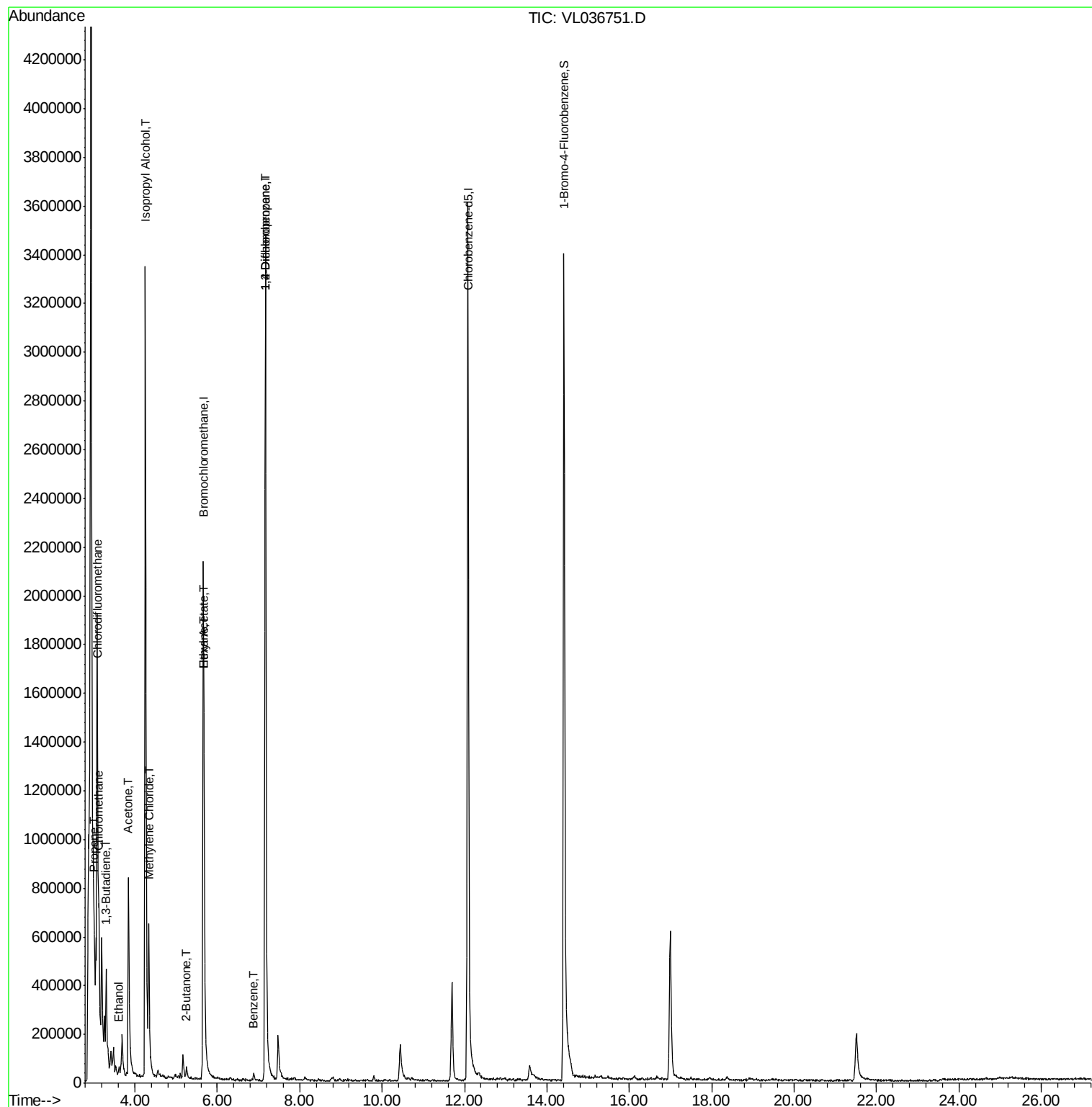
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.10	51	243411	1.114	ppbv	99
4) Chloromethane	3.13	50	5933	0.077	ppbv #	41
9) Propene	3.01	41	56429	0.810	ppbv	94
13) Ethanol	3.60	45	2535	0.306	ppbv #	1
15) Acetone	3.84	43	1119564	9.729	ppbv	97
16) 1,3-Butadiene	3.30	39	101279	1.264	ppbv #	21
19) Isopropyl Alcohol	4.25	45	1095864	17.312	ppbv #	93
20) Methylene Chloride	4.34	84	197660	3.669	ppbv	93
25) Ethyl Acetate	5.68	43	114505	0.419	ppbv #	82
26) Hexane	5.68	57	156542	1.233	ppbv #	45
34) 2-Butanone	5.25	43	52655	0.379	ppbv #	78
36) Benzene	6.88	78	23577	0.090	ppbv #	84
39) 1,2-Dichloropropane	7.17	63	729863	6.851	ppbv #	23

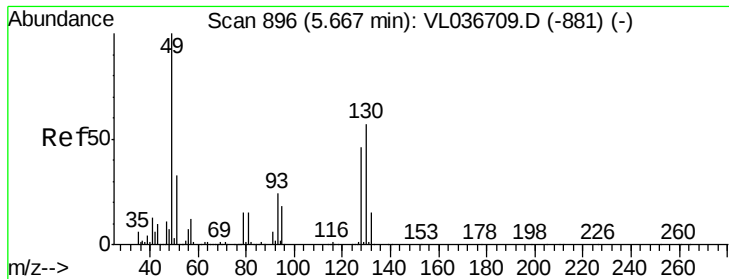
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

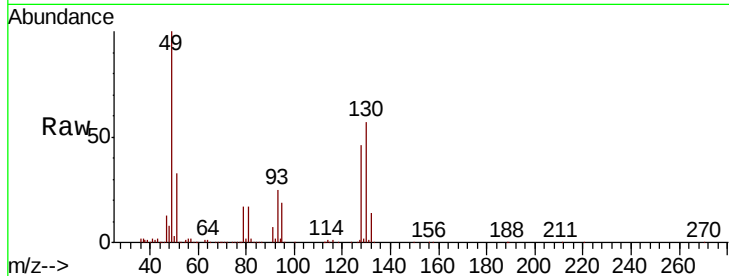
Tot Ion: 49 Resp: 1169151

Ion Ratio Lower Upper

49 100

128 47.6 23.5 70.6

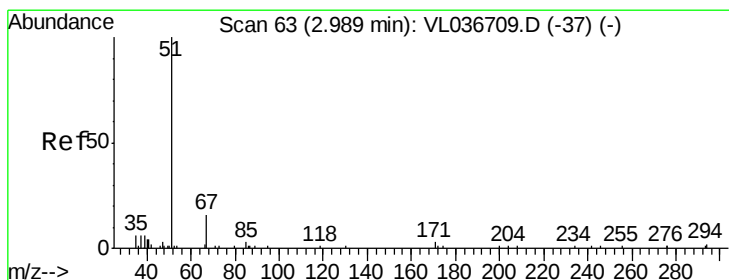
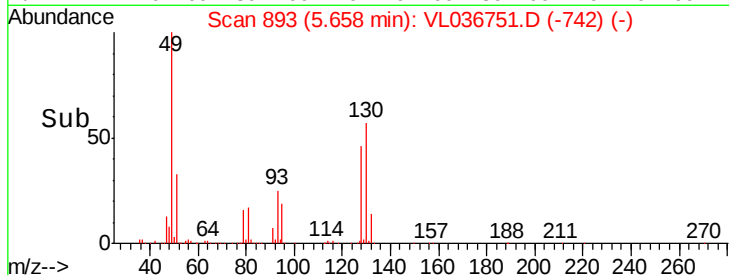
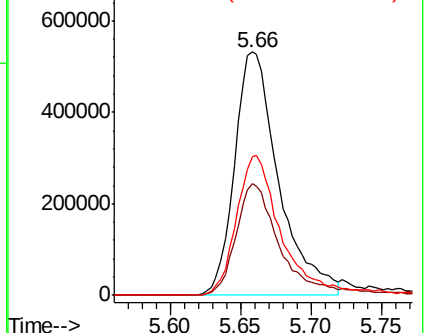
130 60.6 29.1 87.4



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: 1.114 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.11 min

Lab File: VL036751.D

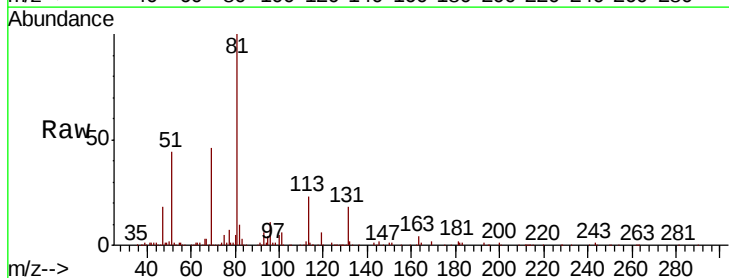
Acq: 8 Apr 2021 15:19

Tgt Ion: 51 Resp: 243411

Ion Ratio Lower Upper

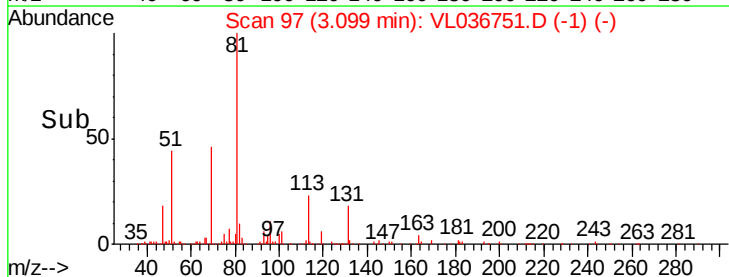
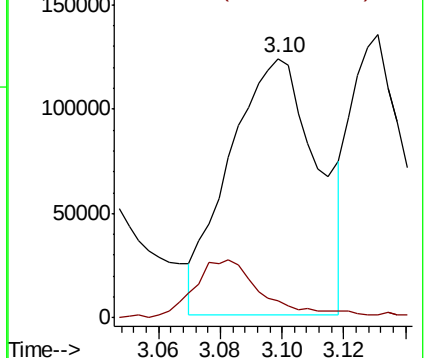
51 100

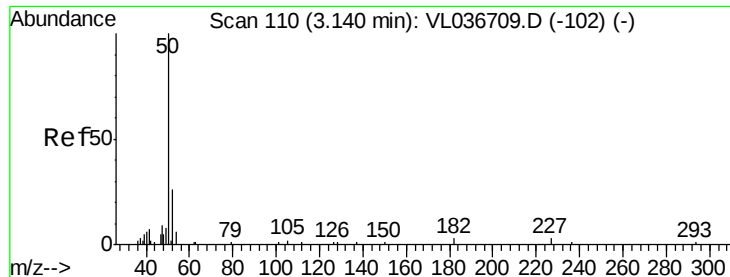
67 18.6 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.077 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

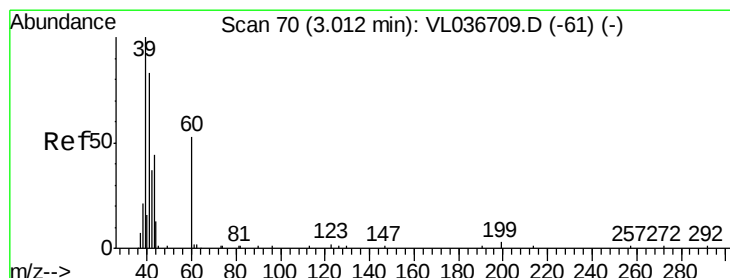
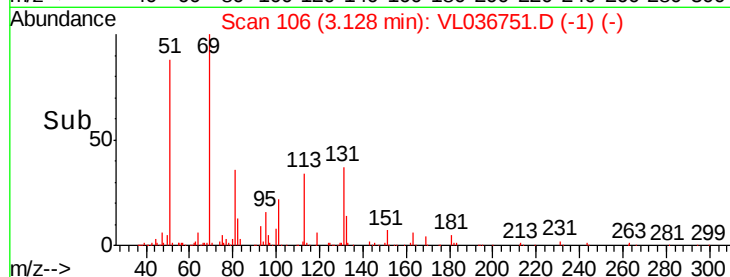
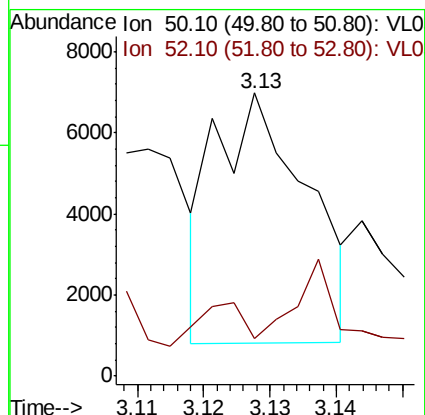
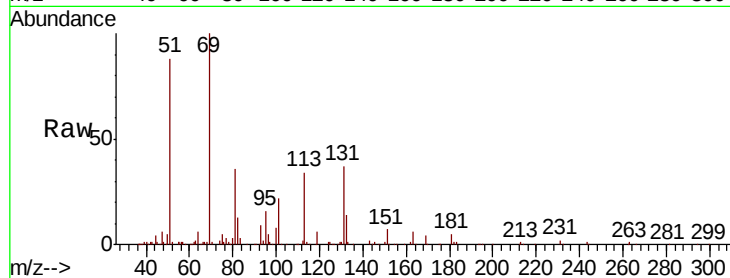
SG-1DL

Tot Ion: 50 Resp: 5933

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



#9

Propene

Concen: 0.810 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL036751.D

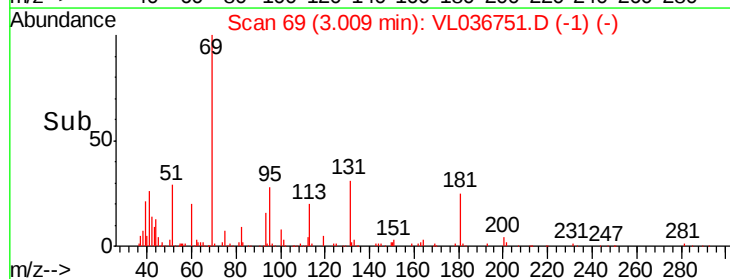
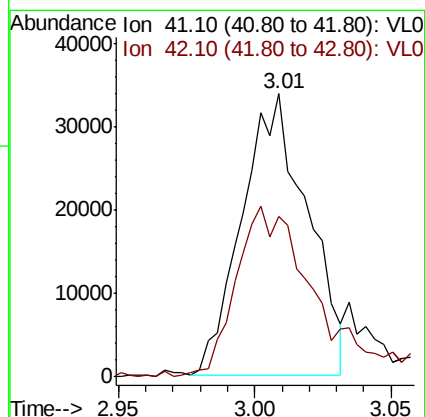
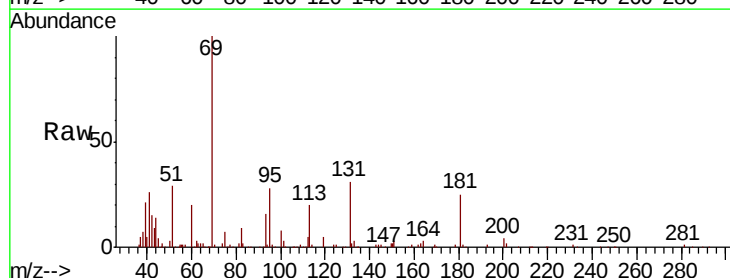
Acq: 8 Apr 2021 15:19

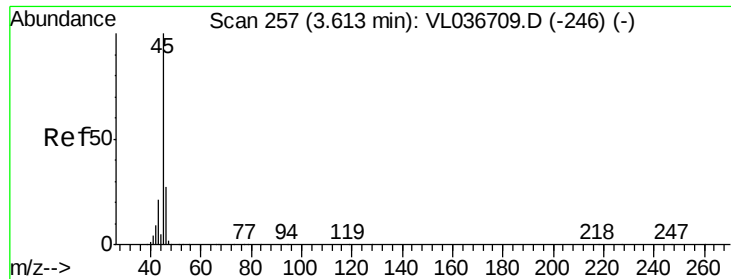
Tgt Ion: 41 Resp: 56429

Ion Ratio Lower Upper

41 100

42 75.9 57.0 85.4





#13

Ethanol

Concen: 0.306 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

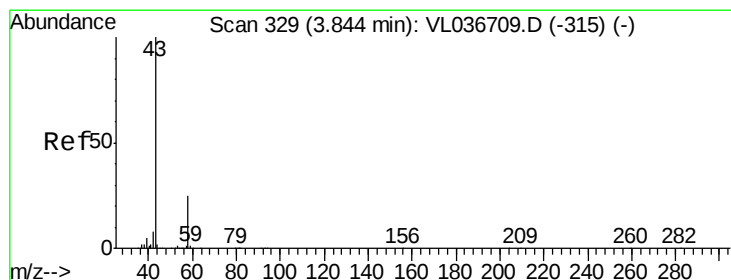
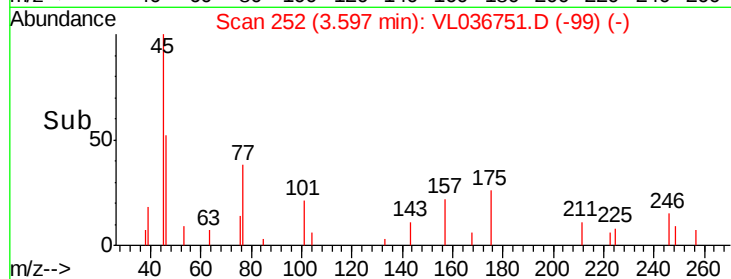
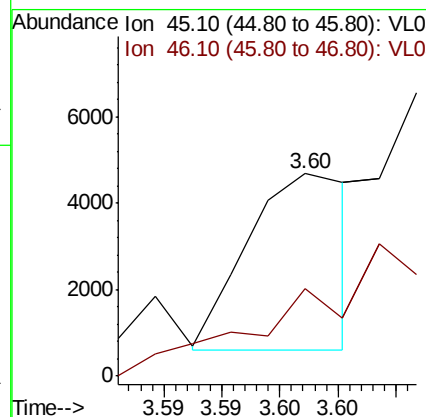
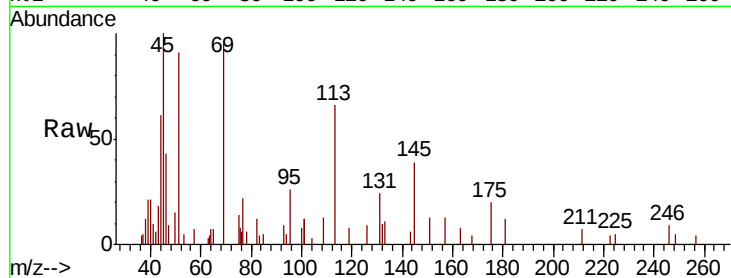
SG-1DL

Tot Ion: 45 Resp: 2535

Ion Ratio Lower Upper

45 100

46 335.0 16.6 66.2#



#15

Acetone

Concen: 9.729 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036751.D

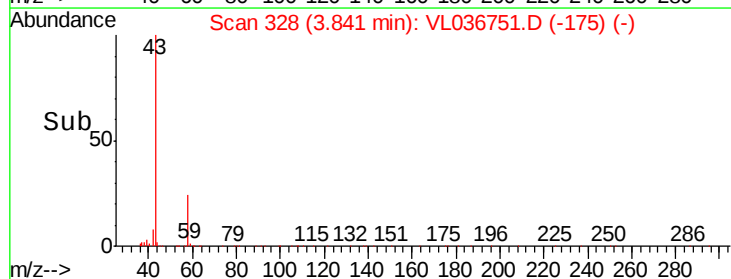
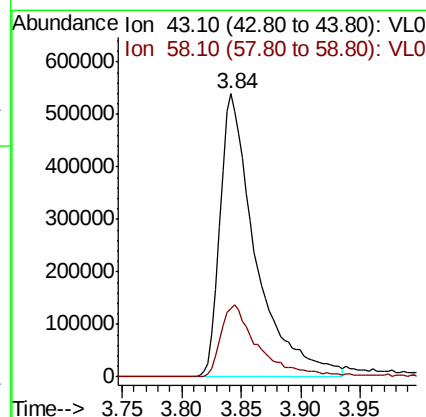
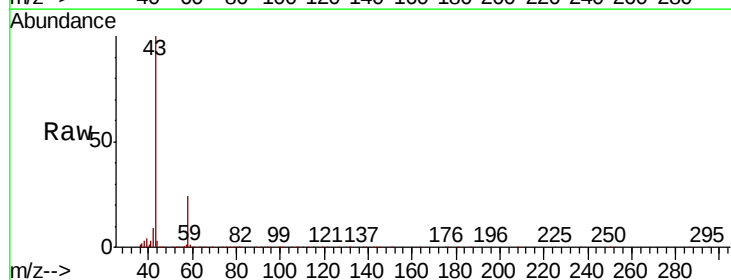
Acq: 8 Apr 2021 15:19

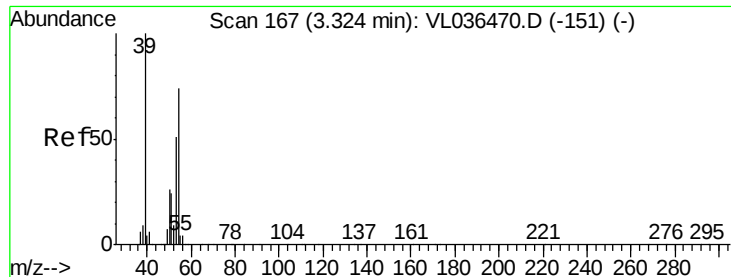
Tgt Ion: 43 Resp: 1119564

Ion Ratio Lower Upper

43 100

58 27.9 21.2 31.8





#16

1,3-Butadiene

Concen: 1.264 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.03 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampled :

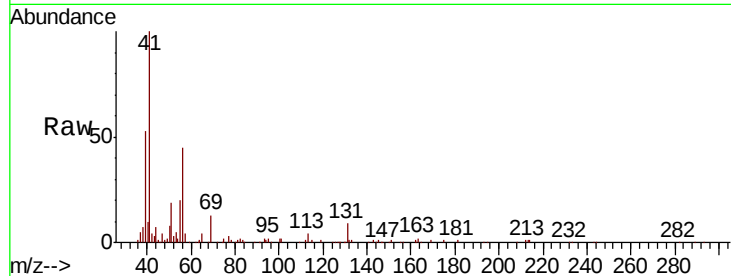
SG-1DL

Tot Ion: 39 Resp: 101279

Ion Ratio Lower Upper

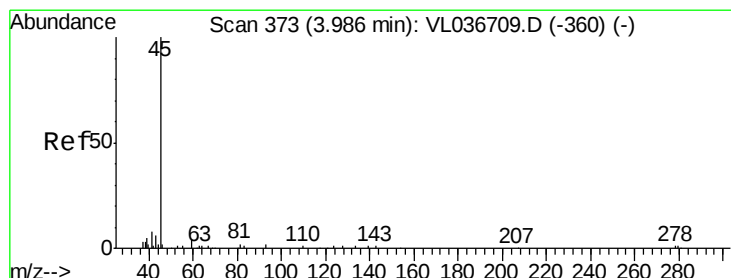
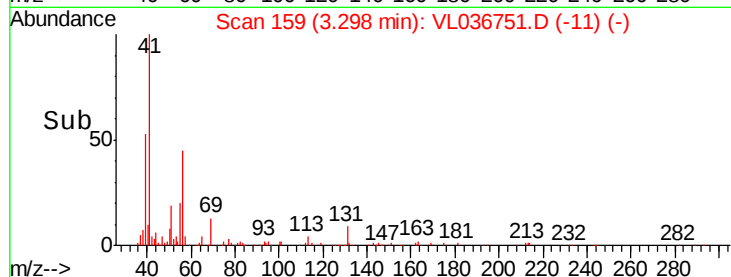
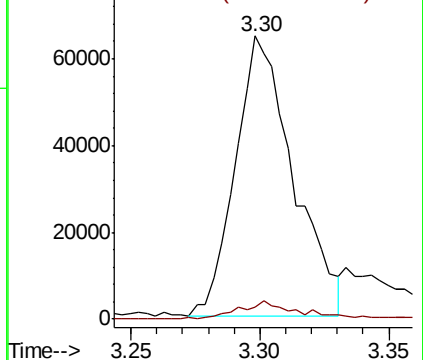
39 100

54 7.2 58.8 88.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#19

Isopropyl Alcohol

Concen: 17.312 ppbv

RT: 4.25 min Scan# 456

Delta R.T. 0.28 min

Lab File: VL036751.D

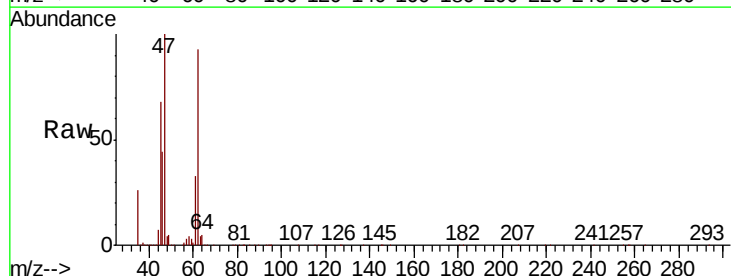
Acq: 8 Apr 2021 15:19

Tgt Ion: 45 Resp: 1095864

Ion Ratio Lower Upper

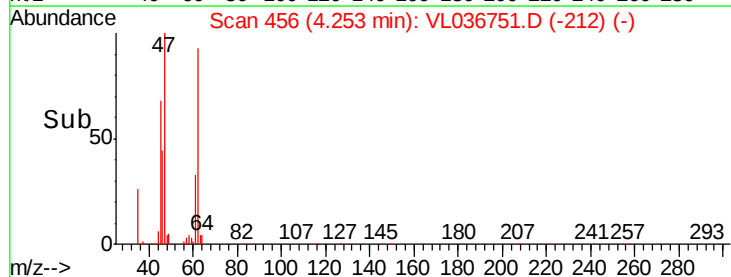
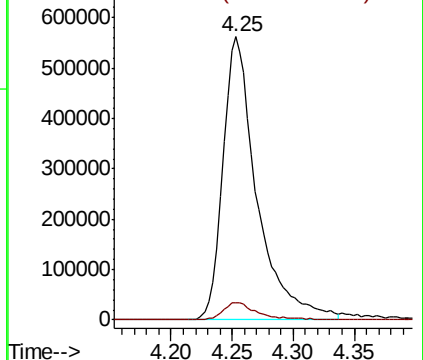
45 100

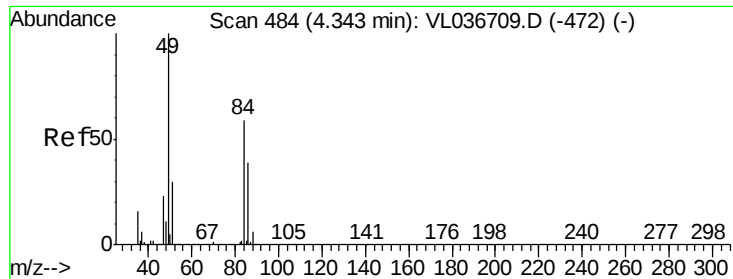
58 5.9 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

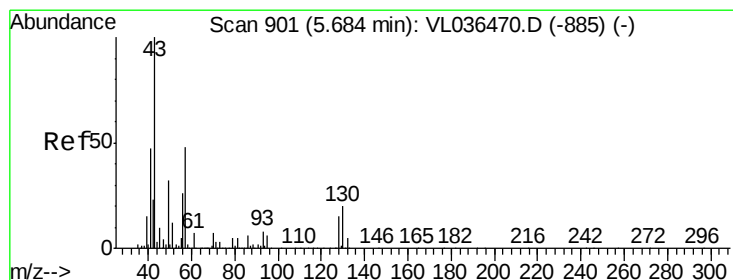
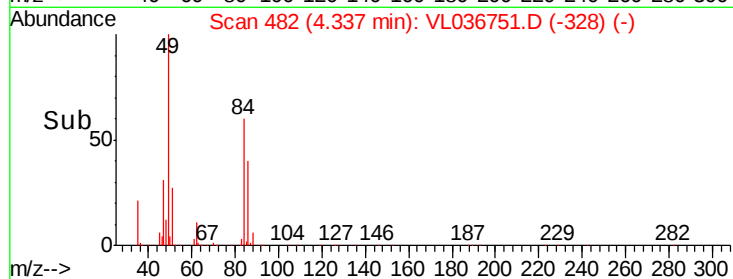
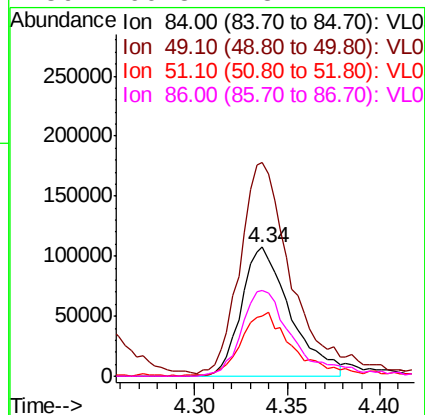
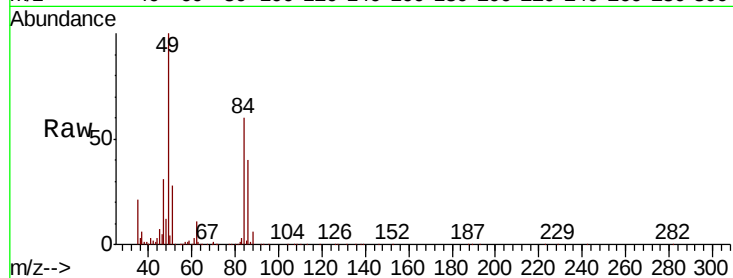




#20
Methylene Chloride
Concen: 3.669 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036751.D
Acq: 8 Apr 2021 15:19

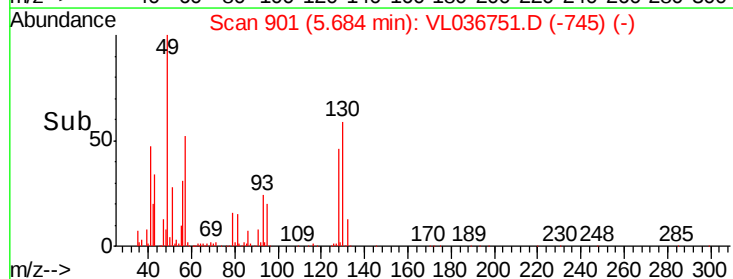
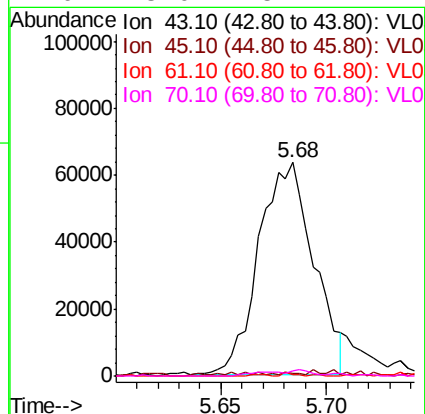
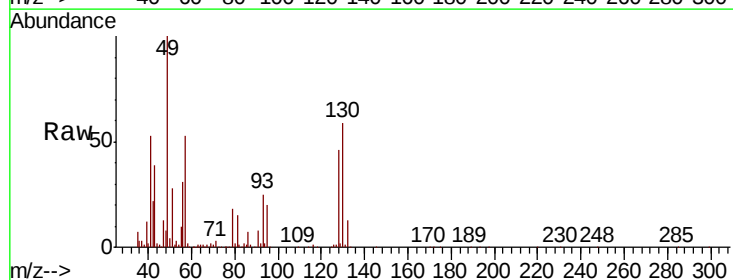
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

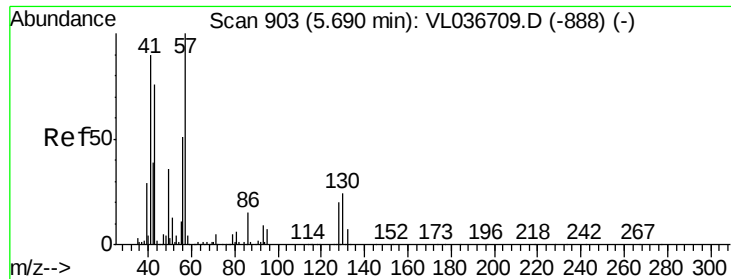
Tot Ion:	84	Resp:	197660
Ion	Ratio	Lower	Upper
84	100		
49	163.0	122.9	184.3
51	45.2	36.9	55.3
86	66.8	48.2	72.4



#25
Ethyl Acetate
Concen: 0.419 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036751.D
Acq: 8 Apr 2021 15:19

Tgt Ion:	43	Resp:	114505
Ion	Ratio	Lower	Upper
43	100		
45	2.9	7.9	11.9#
61	0.7	7.4	11.2#
70	3.0	5.1	7.7#





#26

Hexane

Concen: 1.233 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tot Ion: 57 Resp: 156542

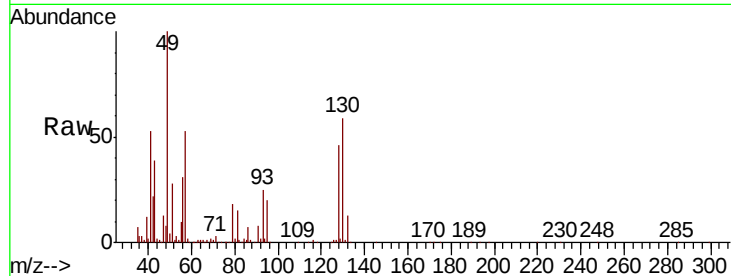
Ion Ratio Lower Upper

57 100

41 111.1 77.2 115.8

43 85.3 173.8 260.6#

56 64.4 43.8 65.6

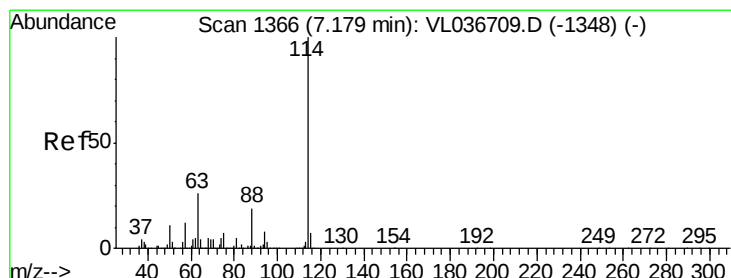
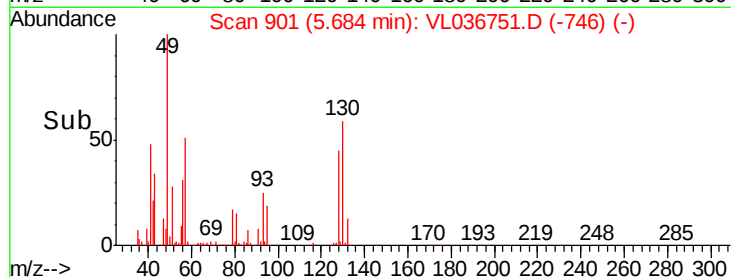
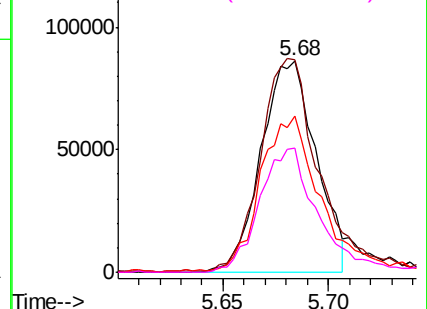


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

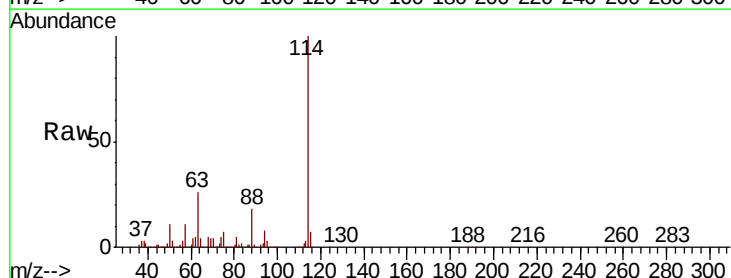
Tgt Ion:114 Resp: 2847394

Ion Ratio Lower Upper

114 100

63 26.6 22.4 33.6

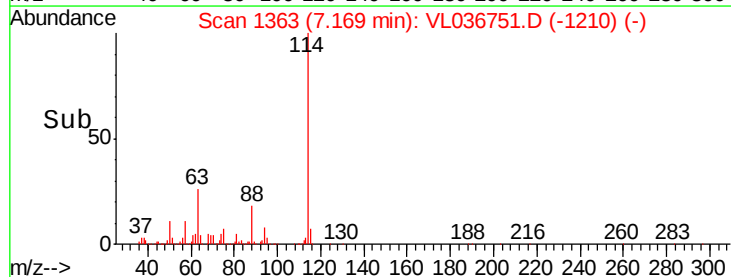
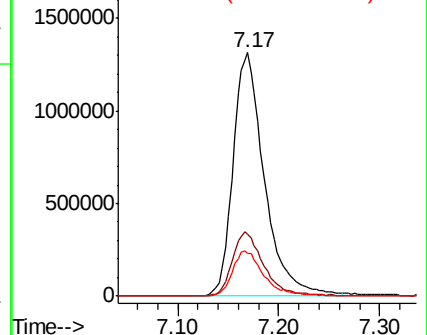
88 18.5 15.4 23.0

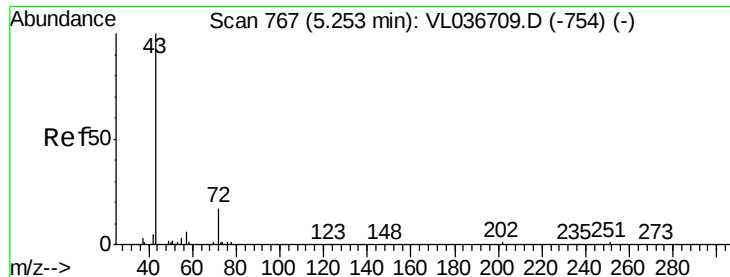


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

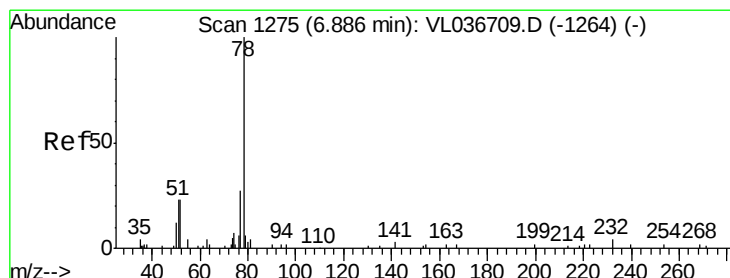
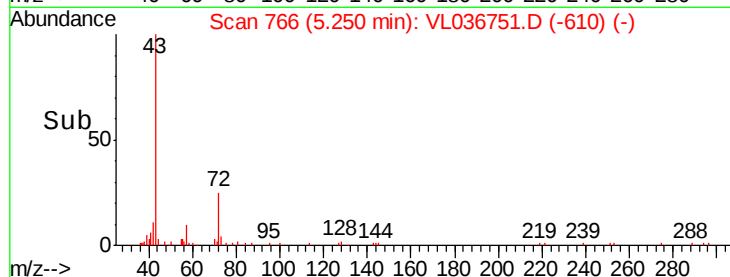
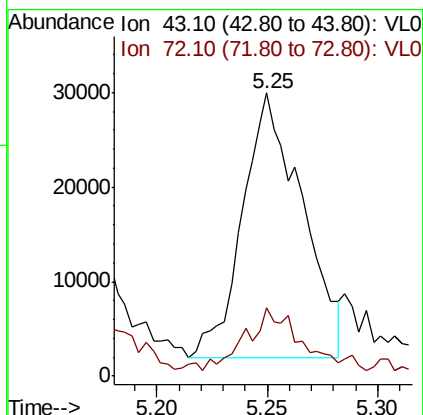
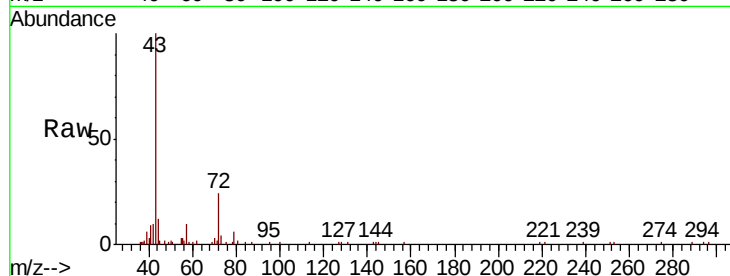




#34
2-Butanone
Concen: 0.379 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL036751.D
Acq: 8 Apr 2021 15:19

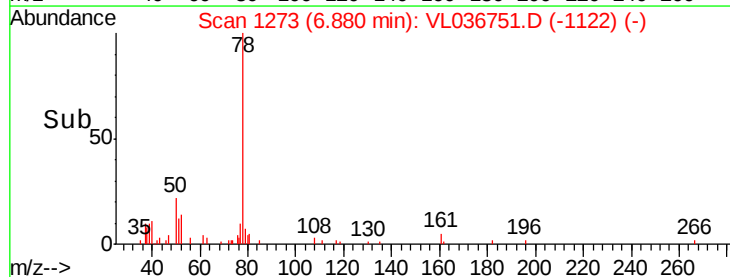
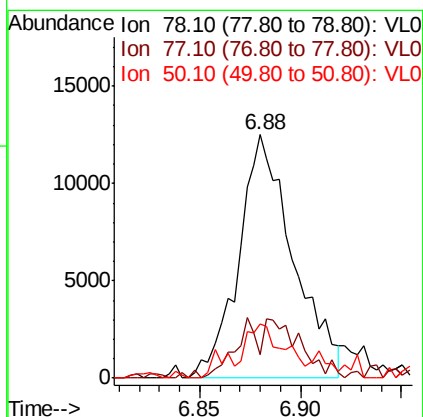
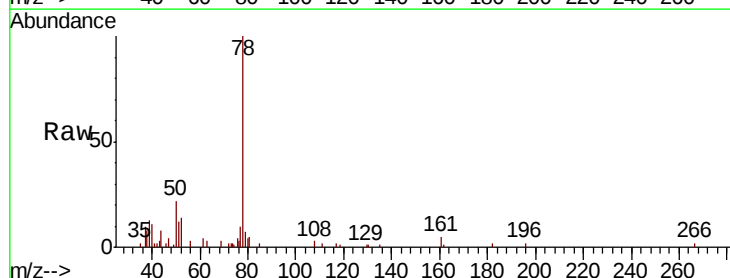
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

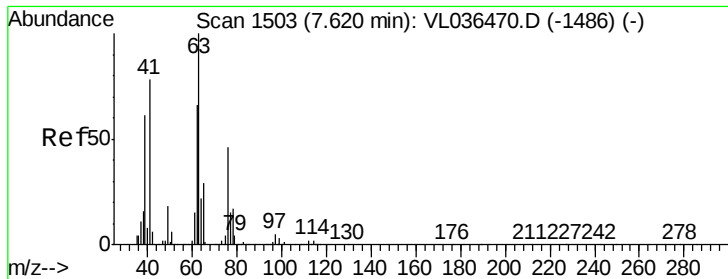
Tot Ion: 43 Resp: 52655
Ion Ratio Lower Upper
43 100
72 31.6 17.0 25.6#



#36
Benzene
Concen: 0.090 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VL036751.D
Acq: 8 Apr 2021 15:19

Tgt Ion: 78 Resp: 23577
Ion Ratio Lower Upper
78 100
77 9.8 18.0 27.0#
50 22.6 16.5 24.7





#39

1,2-Dichloropropane

Concen: 6.851 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.45 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

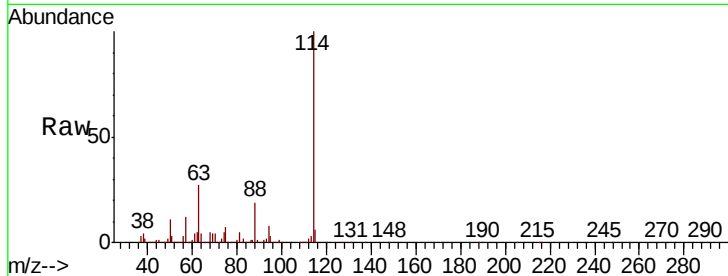
Tot Ion: 63 Resp: 729863

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

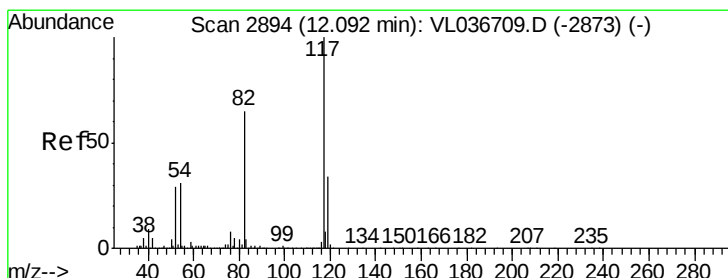
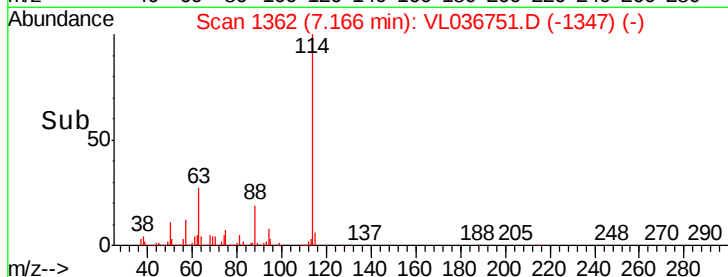
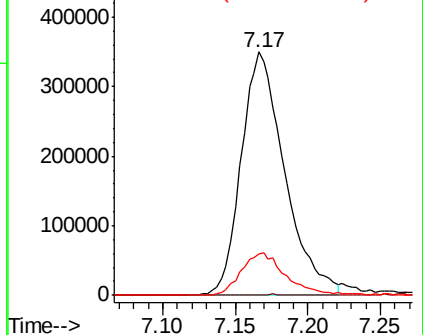
62 16.8 52.8 79.2#



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: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

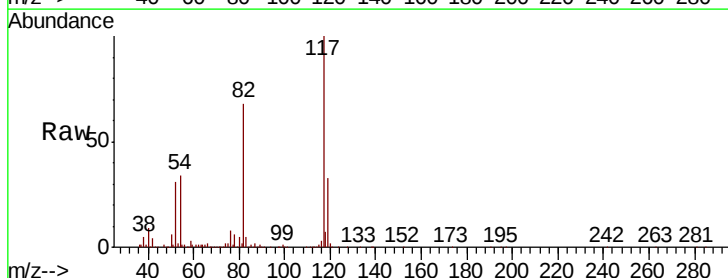
Tgt Ion: 117 Resp: 2423752

Ion Ratio Lower Upper

117 100

82 69.1 57.4 86.0

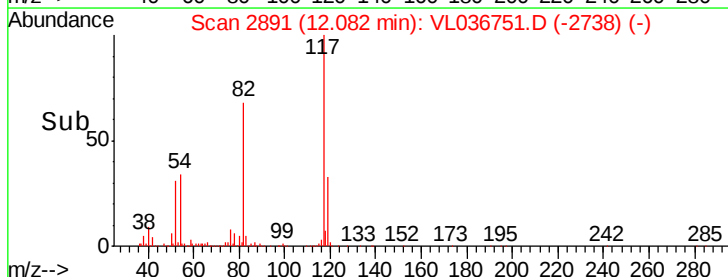
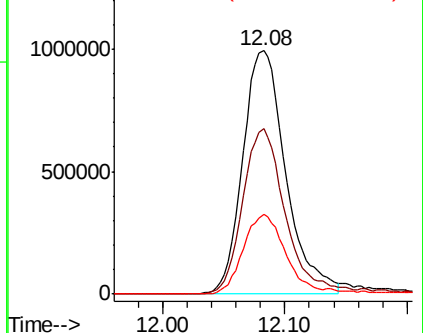
119 33.8 47.4 71.0#

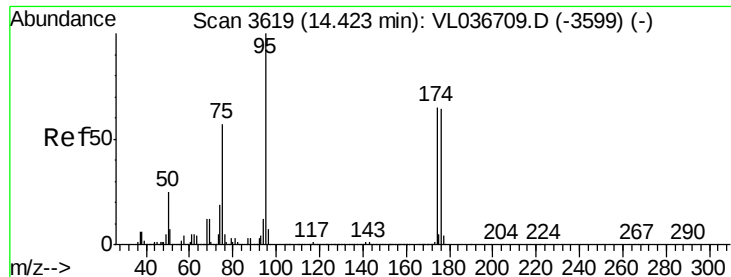


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.192 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036751.D

Acq: 8 Apr 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tot Ion: 95 Resp: 1775720

Ion Ratio Lower Upper

95 100

174 69.6 51.0 76.6

175 4.9 3.9 5.9

