

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042821\
 Data File : VL036886.D
 Acq On : 28 Apr 2021 19:19
 Operator : SY/AP
 Sample : M2172-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 29 03:10:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1428930	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3318987	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3042649	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2382412	9.75	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

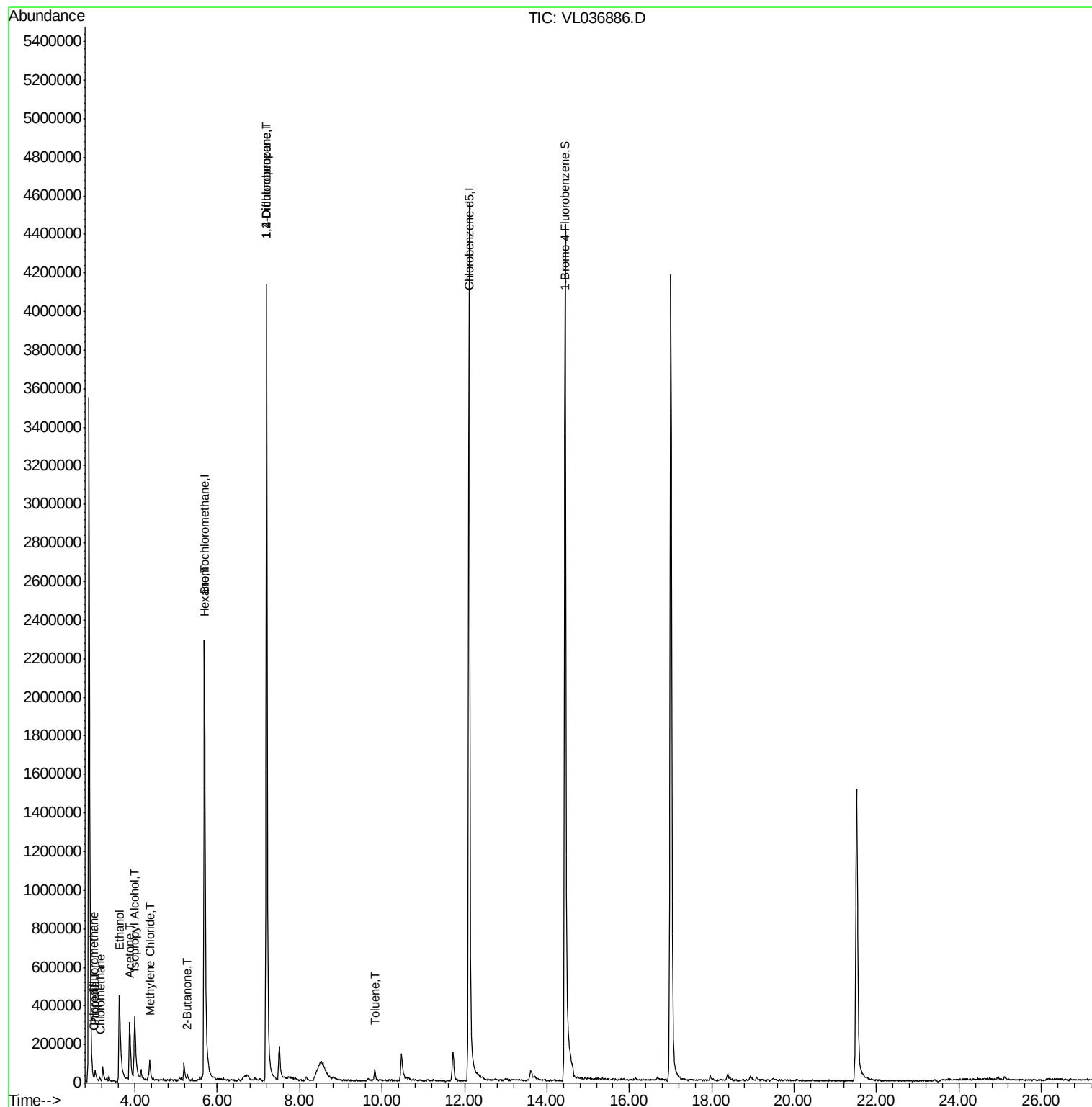
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.00	51	11007	0.042 ppbv	95
4) Chloromethane	3.16	50	4831	0.056 ppbv	95
9) Propene	3.03	41	14981	0.189 ppbv	100
13) Ethanol	3.62	45	653741	64.633 ppbv	99
15) Acetone	3.87	43	399824	2.969 ppbv	95
19) Isopropyl Alcohol	3.99	45	478675	7.173 ppbv #	95
20) Methylene Chloride	4.37	84	35480	0.551 ppbv	94
26) Hexane	5.70	57	7330	0.048 ppbv #	1
34) 2-Butanone	5.28	43	34634	0.238 ppbv #	71
39) 1,2-Dichloropropane	7.20	63	893794	7.978 ppbv #	24
53) Toluene	9.83	91	9671	0.033 ppbv #	53

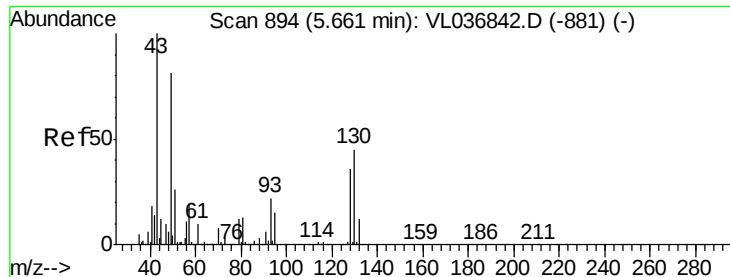
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
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QLast Update : Tue Apr 27 16:56:35 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

Instrument :

MSVOA_L

ClientSampleId :

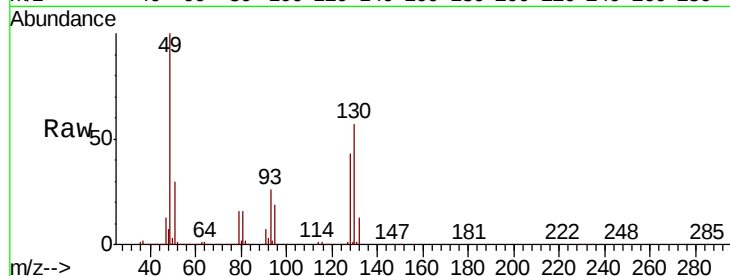
Tot Ion: 49 Resp: 1428930

Ion Ratio Lower Upper

49 100

128 46.2 24.4 73.2

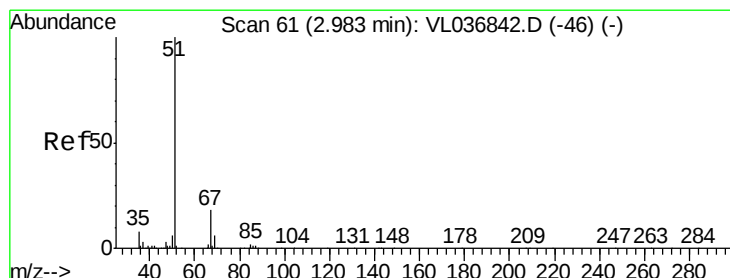
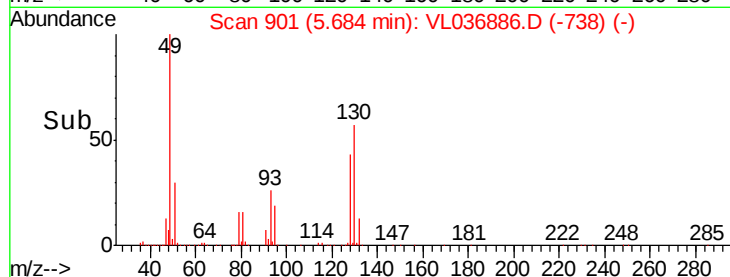
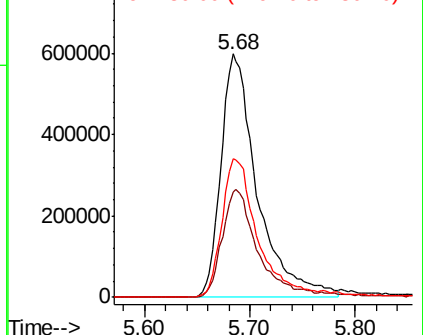
130 58.9 30.3 90.8



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



#3

Chlorodifluoromethane

Concen: 0.042 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036886.D

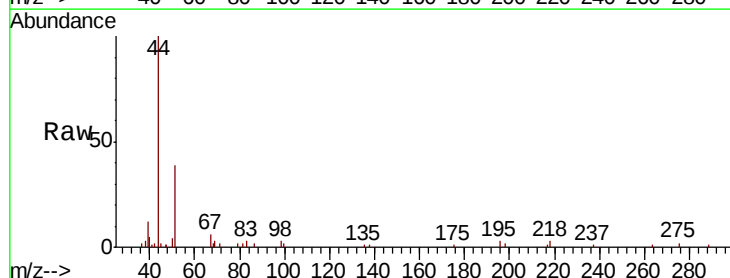
Acq: 28 Apr 2021 19:19

Tgt Ion: 51 Resp: 11007

Ion Ratio Lower Upper

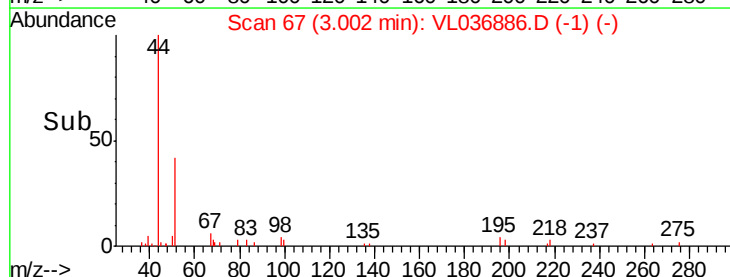
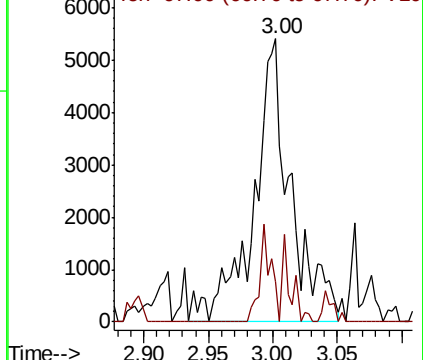
51 100

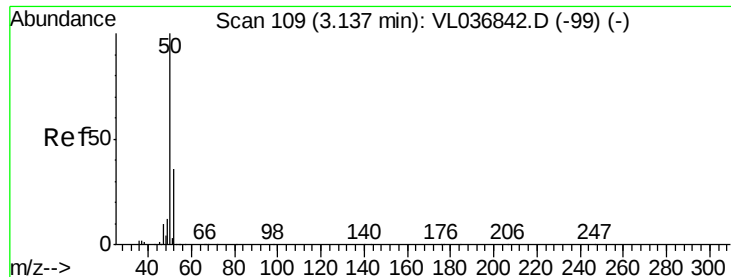
67 16.4 14.8 22.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.056 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

Instrument :

MSVOA_L

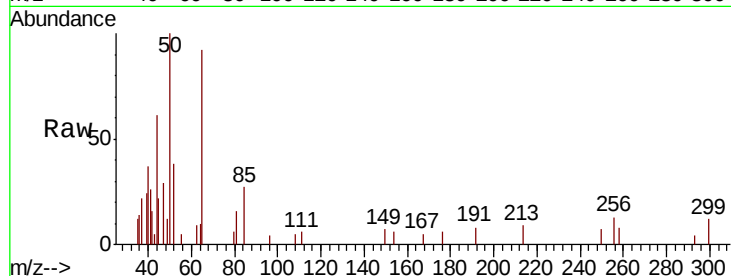
ClientSampleId :

Tot Ion: 50 Resp: 4831

Ion Ratio Lower Upper

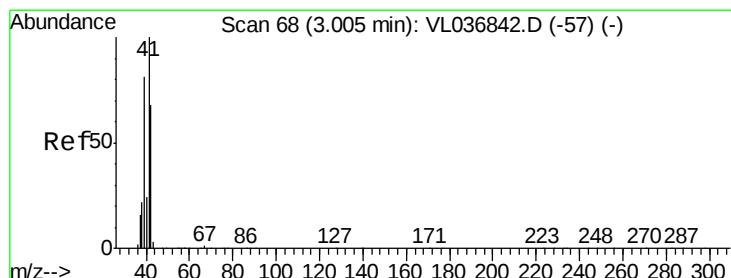
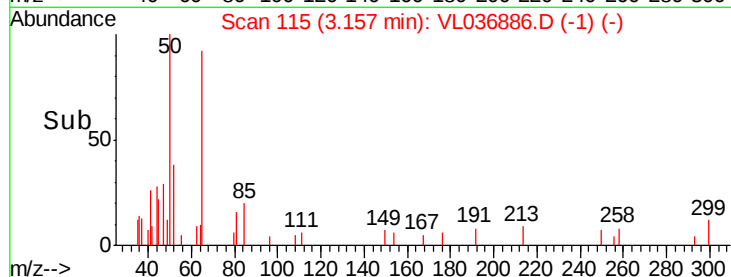
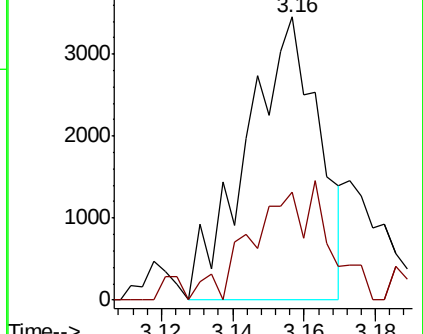
50 100

52 38.4 28.5 42.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.189 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.03 min

Lab File: VL036886.D

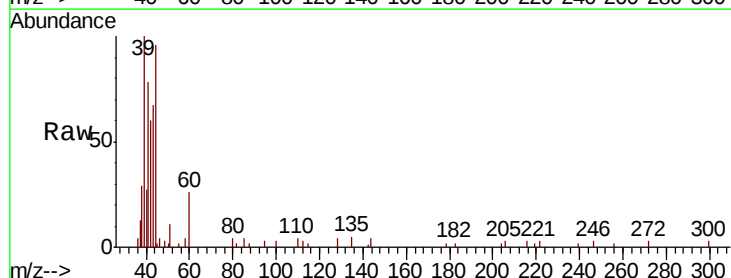
Acq: 28 Apr 2021 19:19

Tgt Ion: 41 Resp: 14981

Ion Ratio Lower Upper

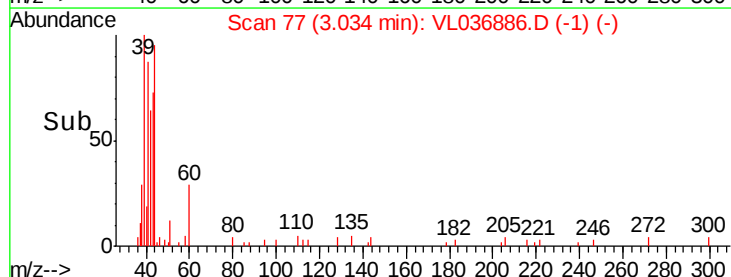
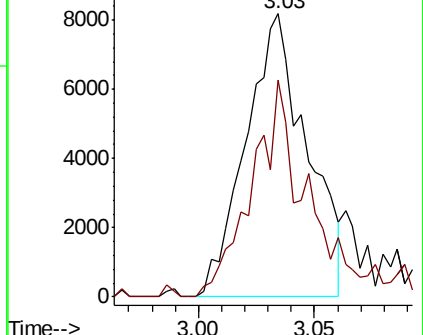
41 100

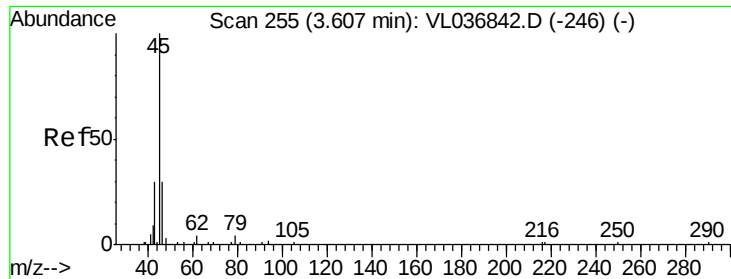
42 70.0 56.0 84.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 64.633 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

Instrument :

MSVOA_L

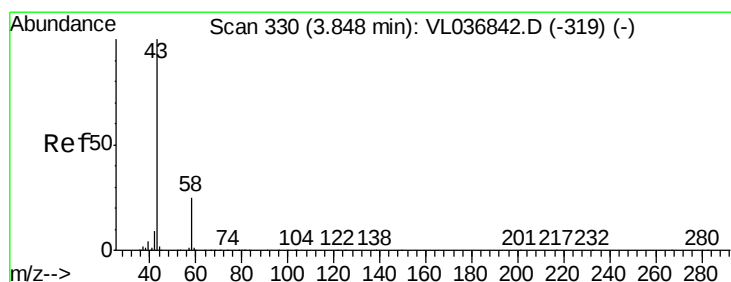
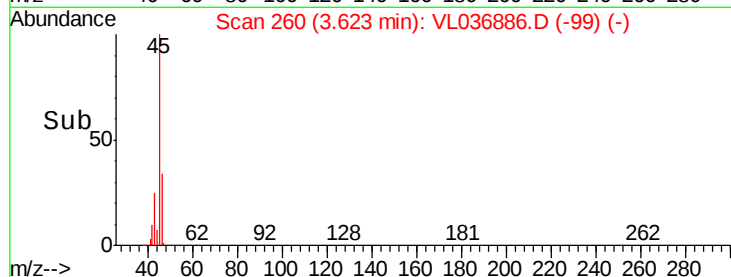
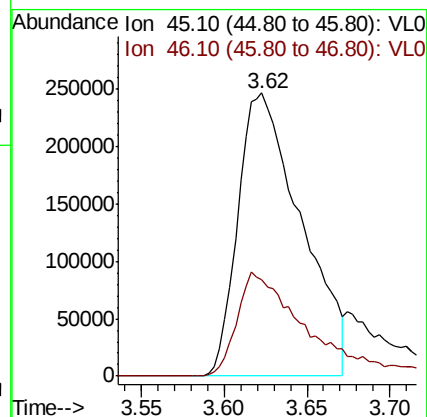
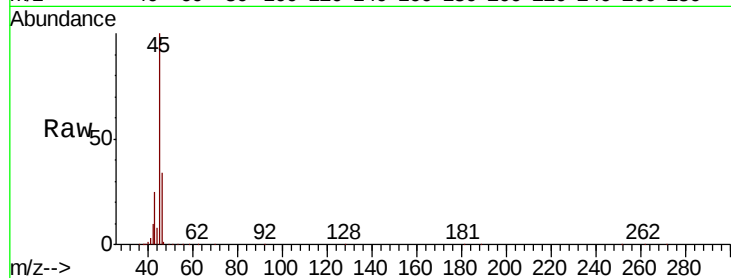
ClientSampleId :

Tot Ion: 45 Resp: 653741

Ion Ratio Lower Upper

45 100

46 43.0 16.8 67.4



#15

Acetone

Concen: 2.969 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL036886.D

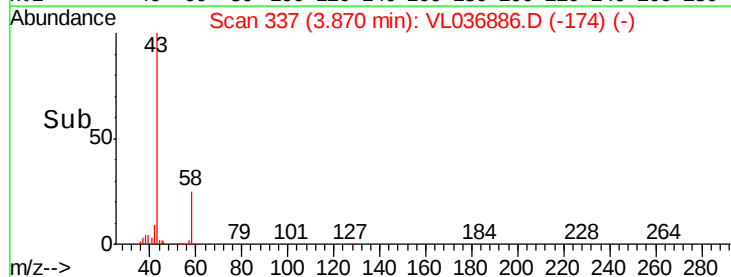
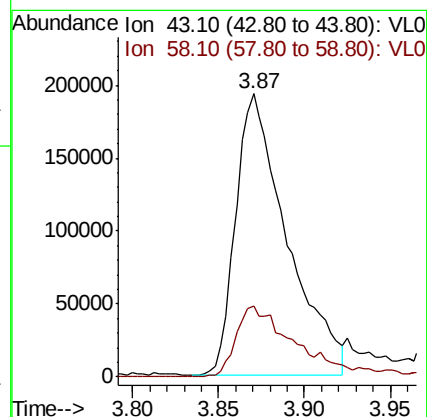
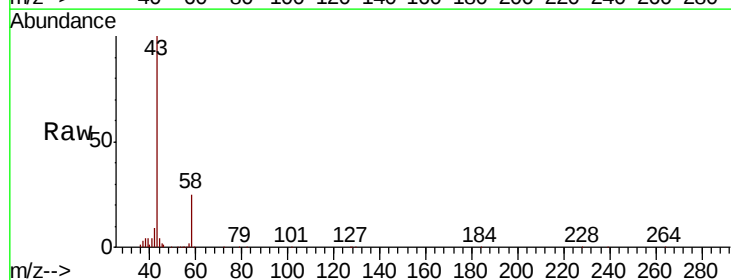
Acq: 28 Apr 2021 19:19

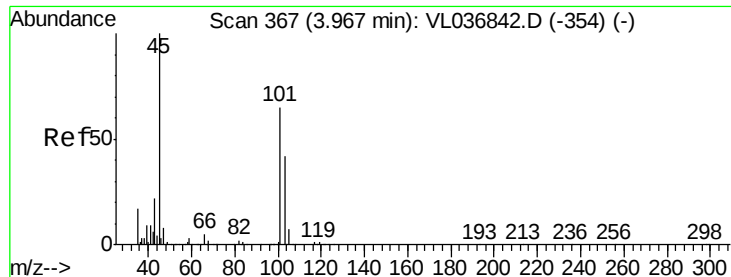
Tgt Ion: 43 Resp: 399824

Ion Ratio Lower Upper

43 100

58 29.9 21.7 32.5





#19

Isopropyl Alcohol

Concen: 7.173 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.02 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

Instrument :

MSVOA_L

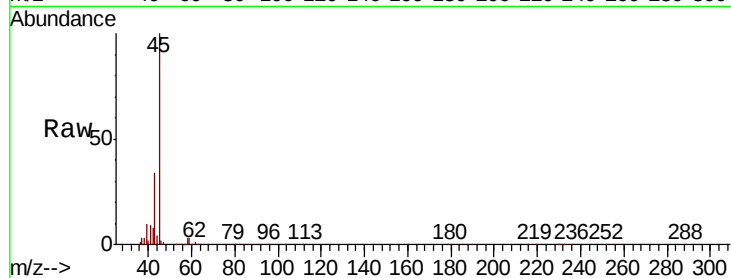
ClientSampleId :

Tot Ion: 45 Resp: 478675

Ion Ratio Lower Upper

45 100

58 5.2 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

200000

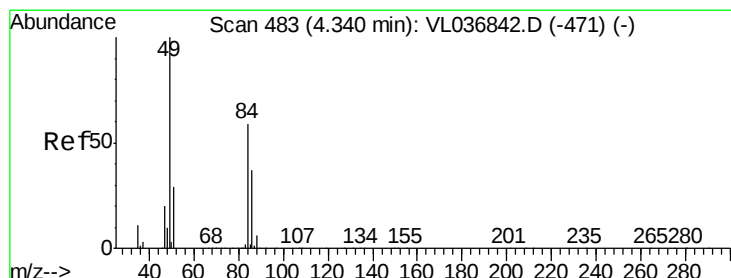
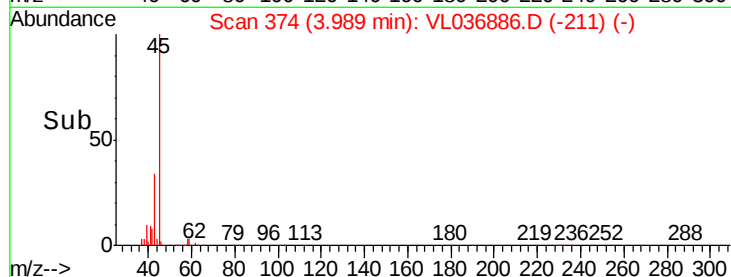
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 0.551 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.03 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

Tgt Ion: 84 Resp: 35480

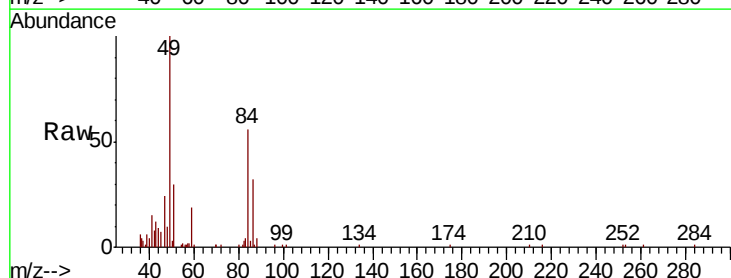
Ion Ratio Lower Upper

84 100

49 177.2 135.4 203.0

51 51.4 39.3 58.9

86 57.1 50.2 75.2



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

40000

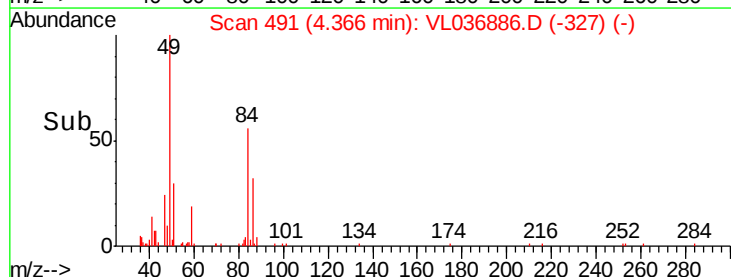
30000

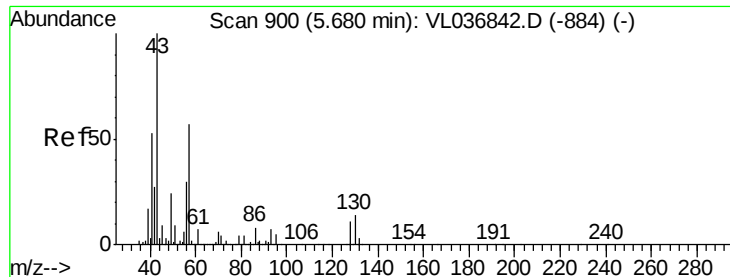
20000

10000

0

Time-->

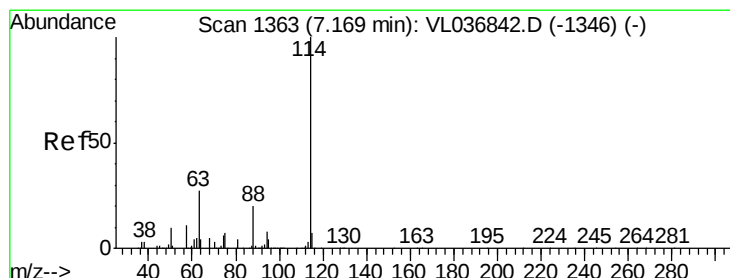
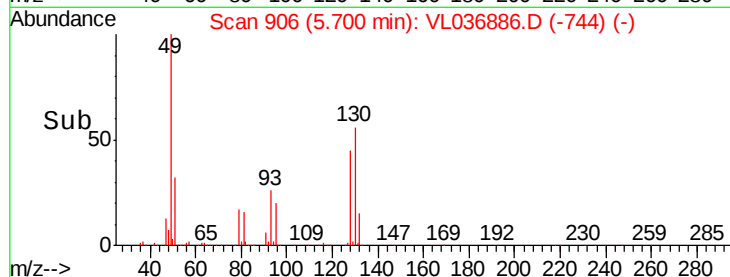
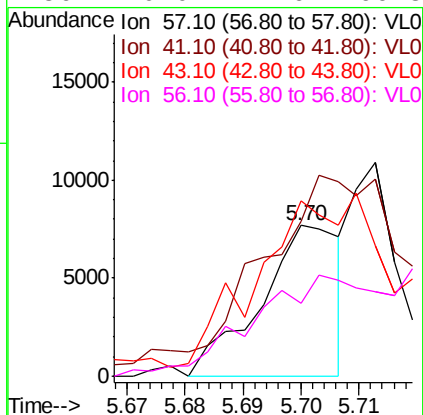
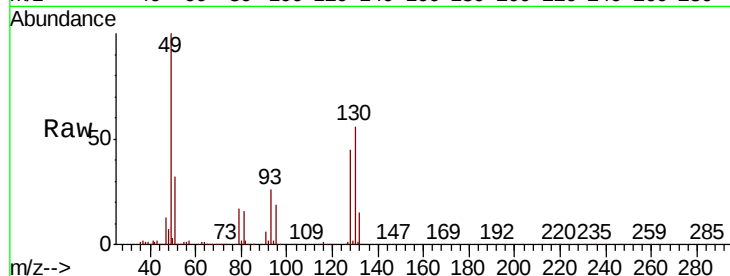




#26
Hexane
Concen: 0.048 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL036886.D
Acq: 28 Apr 2021 19:19

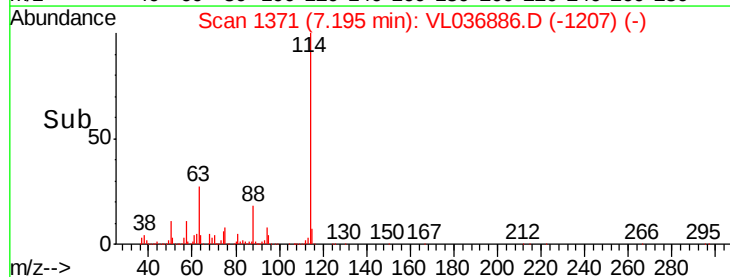
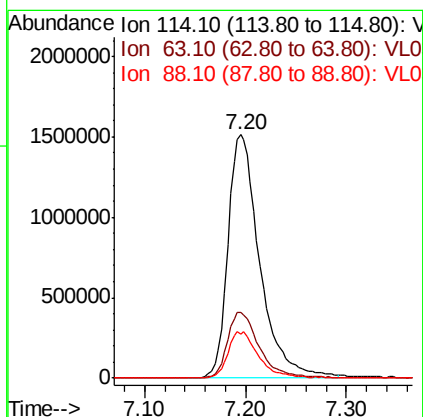
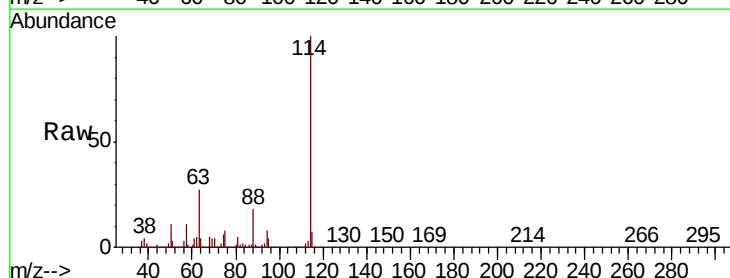
Instrument :
MSVOA_L
ClientSampleId :

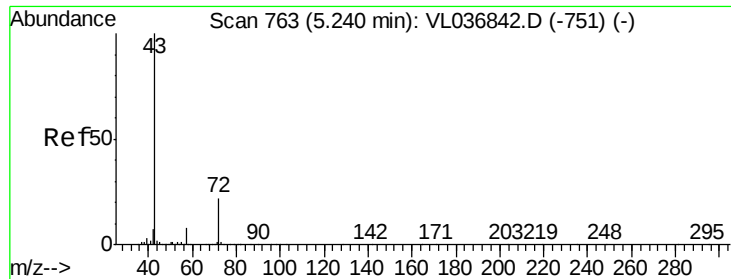
Tot Ion: 57 Resp: 7330
Ion Ratio Lower Upper
57 100
41 318.6 77.7 116.5#
43 0.0 180.5 270.7#
56 0.0 44.6 66.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. 0.03 min
Lab File: VL036886.D
Acq: 28 Apr 2021 19:19

Tgt Ion: 114 Resp: 3318987
Ion Ratio Lower Upper
114 100
63 27.5 21.9 32.9
88 18.7 15.1 22.7

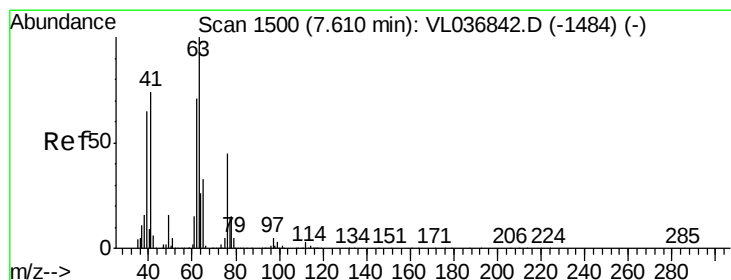
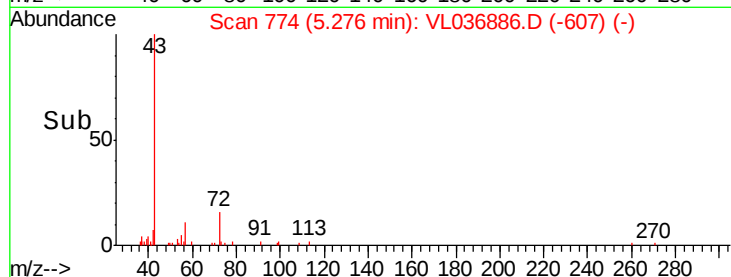
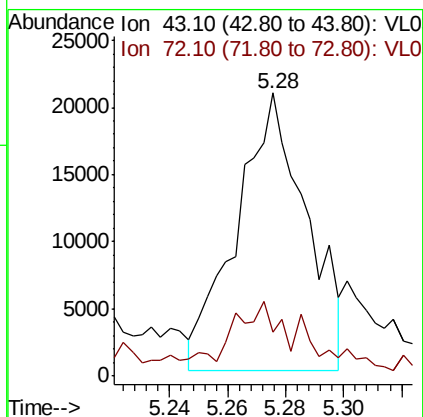
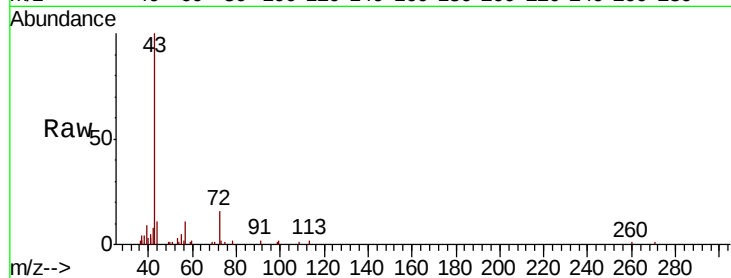




#34
2-Butanone
Concen: 0.238 ppbv
RT: 5.28 min Scan# 774
Delta R.T. 0.04 min
Lab File: VL036886.D
Acq: 28 Apr 2021 19:19

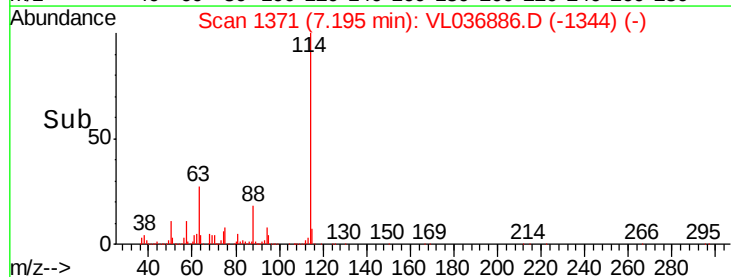
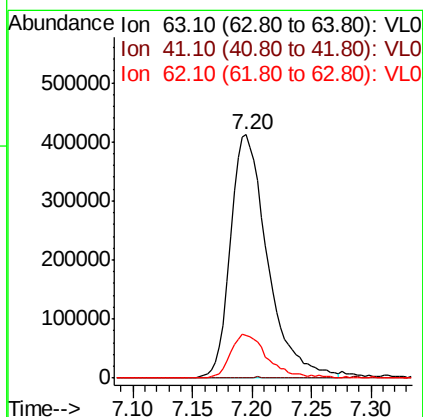
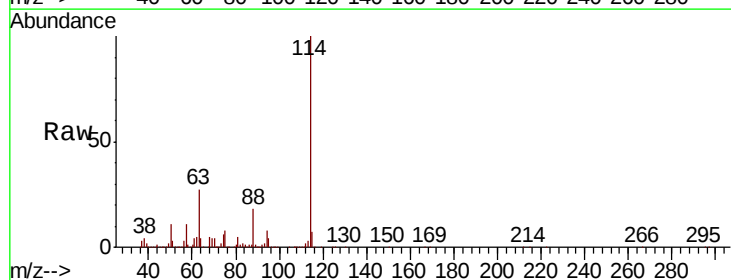
Instrument :
MSVOA_L
ClientSampleId :

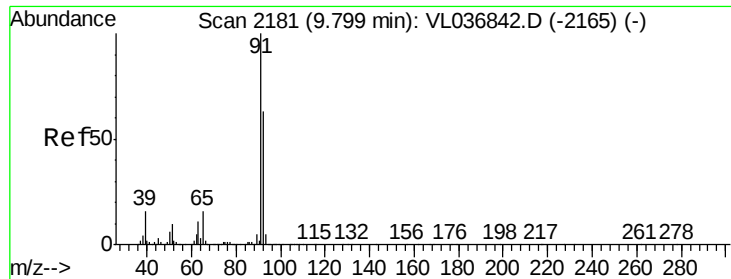
Tot Ion: 43 Resp: 34634
Ion Ratio Lower Upper
43 100
72 35.9 17.6 26.4#



#39
1,2-Dichloropropane
Concen: 7.978 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. -0.41 min
Lab File: VL036886.D
Acq: 28 Apr 2021 19:19

Tgt Ion: 63 Resp: 893794
Ion Ratio Lower Upper
63 100
41 0.0 59.1 88.7#
62 17.5 56.9 85.3#





#53

Toluene

Concen: 0.033 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. 0.03 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

Instrument :

MSVOA_L

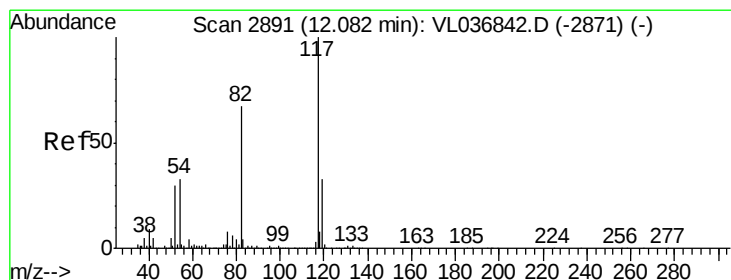
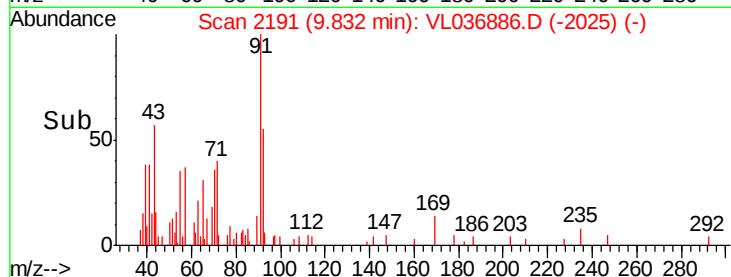
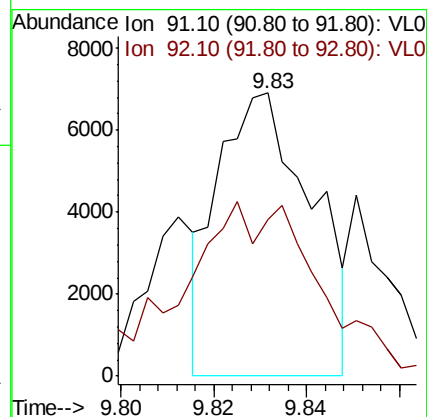
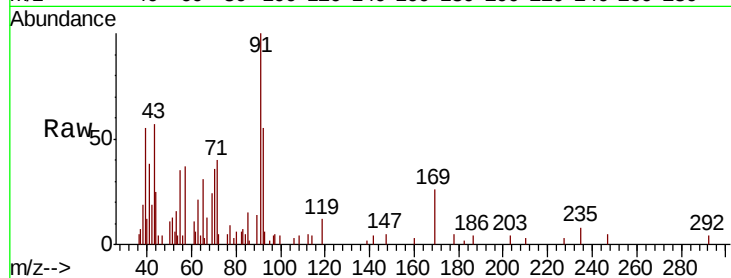
ClientSampleId :

Tot Ion: 91 Resp: 9671

Ion Ratio Lower Upper

91 100

92 96.9 49.0 73.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.03 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

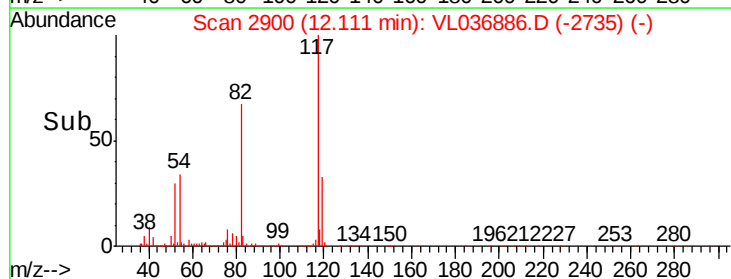
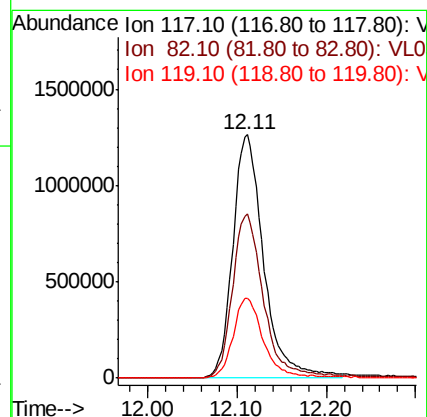
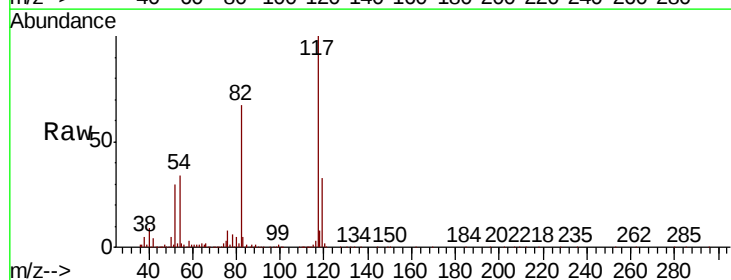
Tgt Ion: 117 Resp: 3042649

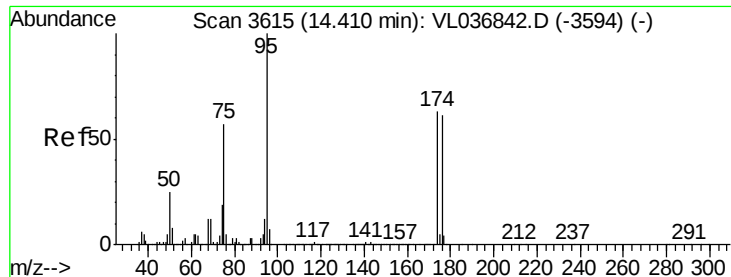
Ion Ratio Lower Upper

117 100

82 69.6 53.5 80.3

119 32.7 25.6 38.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.754 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.03 min

Lab File: VL036886.D

Acq: 28 Apr 2021 19:19

Instrument :

MSVOA_L

ClientSampleId :

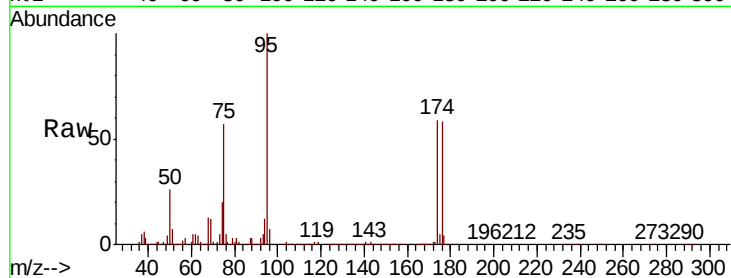
Tot Ion: 95 Resp: 2382412

Ion Ratio Lower Upper

95 100

174 65.0 52.2 78.2

175 4.6 4.0 6.0



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

