

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040921\
 Data File : VL036776.D
 Acq On : 9 Apr 2021 16:08
 Operator : SY/AP
 Sample : M1987-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-IA-4(2021)DL

Quant Time: Apr 10 02:00:36 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	1378028	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3217106	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	2599749	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1710861	8.26	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.60%	

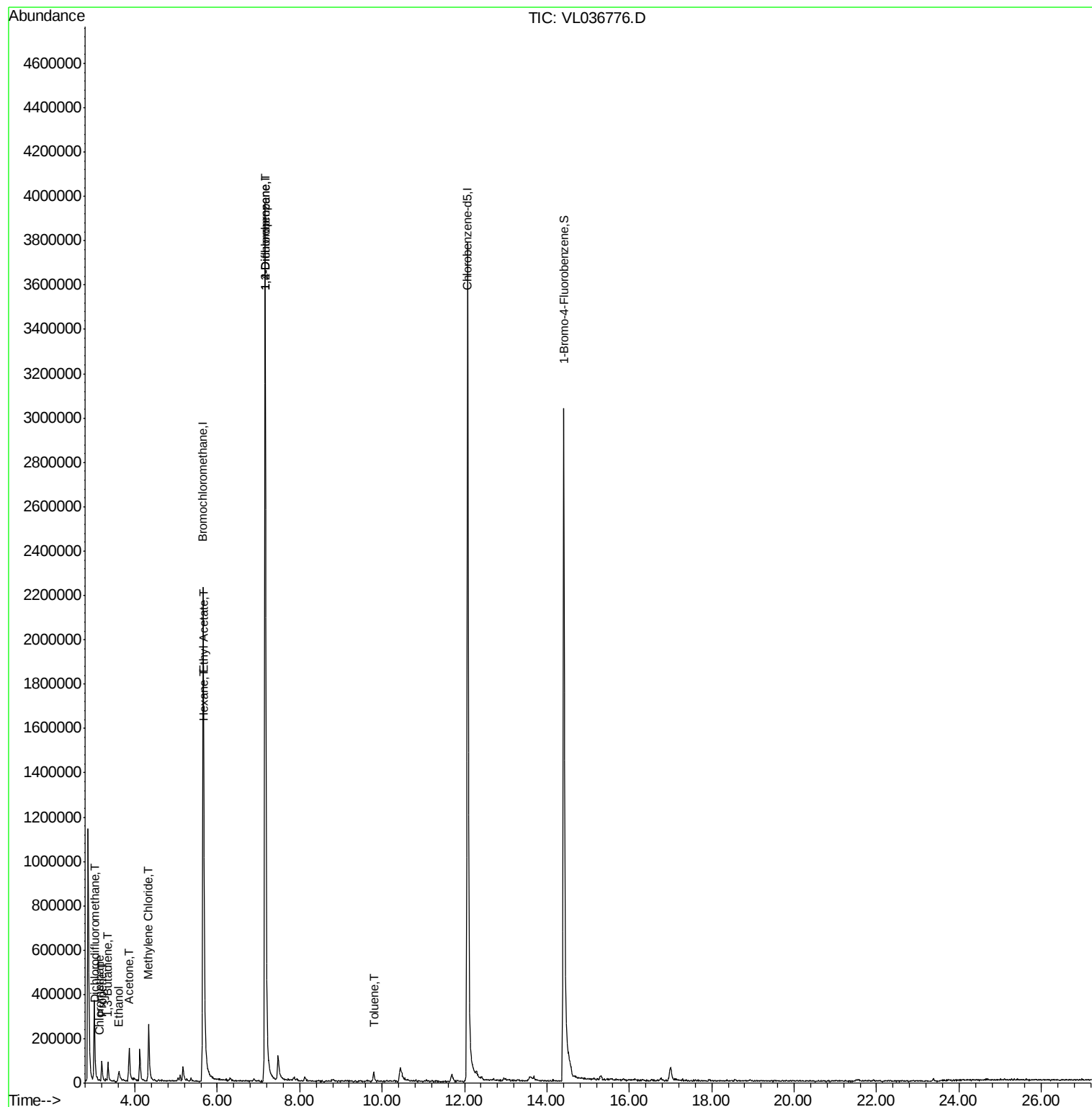
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	10773	0.048	ppbv #	86
4) Chloromethane	3.14	50	5214	0.057	ppbv #	66
9) Propene	3.20	41	27442	0.334	ppbv	84
13) Ethanol	3.61	45	49441	5.058	ppbv	62
15) Acetone	3.85	43	60035	0.443	ppbv #	48
16) 1,3-Butadiene	3.34	39	8445	0.089	ppbv #	24
20) Methylene Chloride	4.33	84	101750	1.602	ppbv	83
25) Ethyl Acetate	5.68	43	45317	0.141	ppbv #	80
26) Hexane	5.68	57	28643	0.191	ppbv #	42
39) 1,2-Dichloropropane	7.16	63	854935	7.103	ppbv #	23
53) Toluene	9.79	91	30245	0.096	ppbv	95

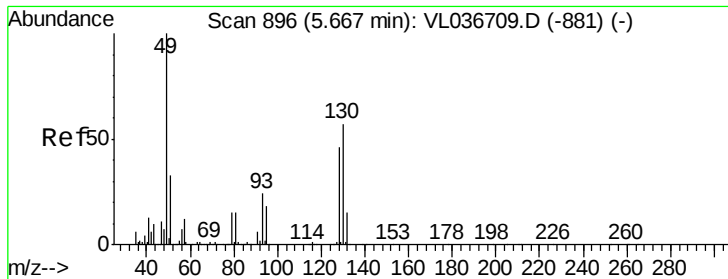
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL036776.D

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Instrument :

MSVOA_L

ClientSampleId :

GOI-IA-4(2021)DL

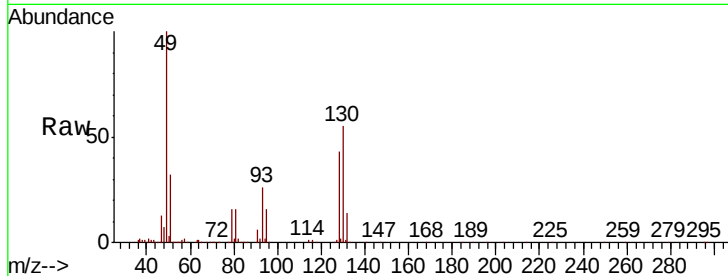
Tot Ion: 49 Resp: 1378028

Ion Ratio Lower Upper

49 100

128 44.8 23.5 70.6

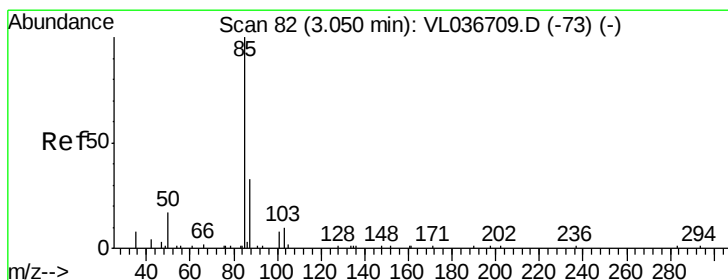
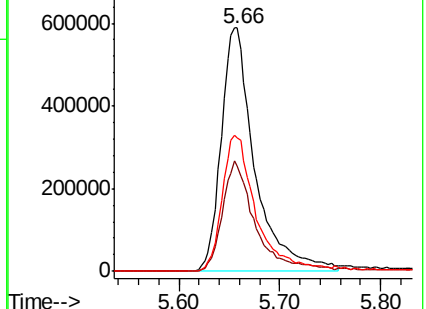
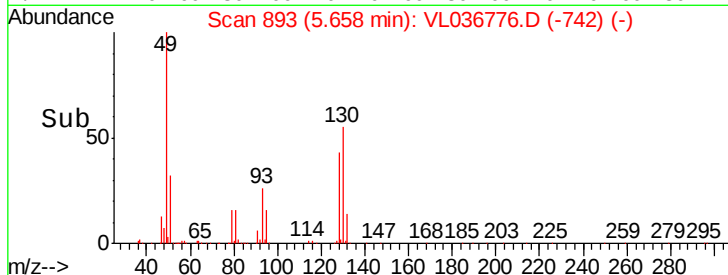
130 58.2 29.1 87.4



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



#2

Dichlorodifluoromethane

Concen: 0.048 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL036776.D

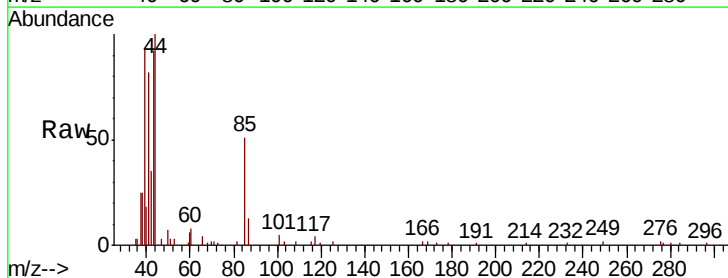
Acq: 9 Apr 2021 16:08

Tgt Ion: 85 Resp: 10773

Ion Ratio Lower Upper

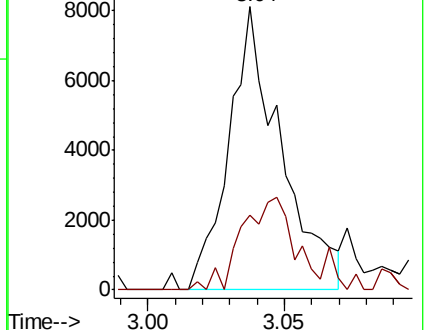
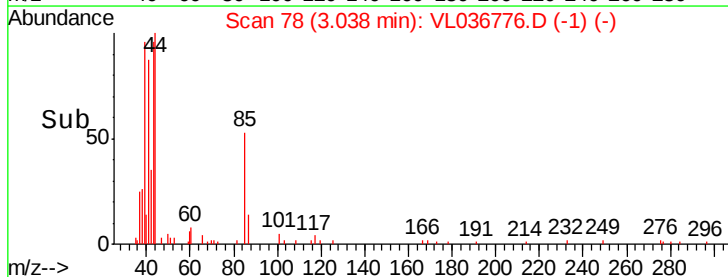
85 100

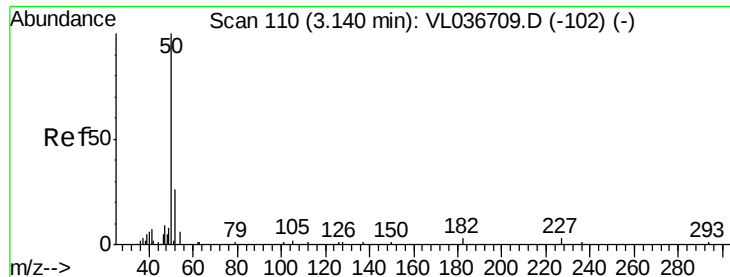
87 26.5 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

Instrument :

MSVOA_L

ClientSampleId :

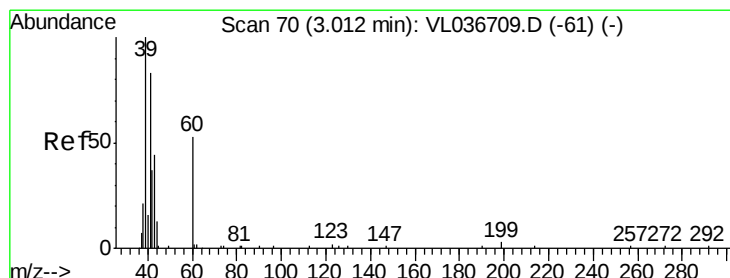
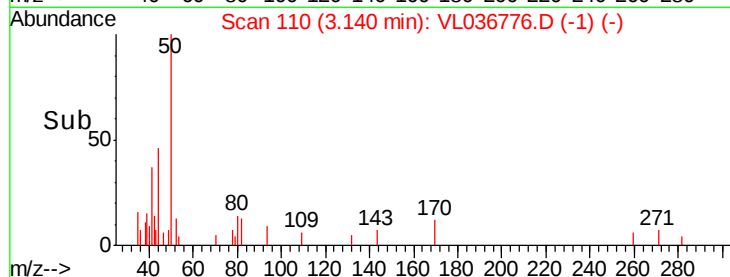
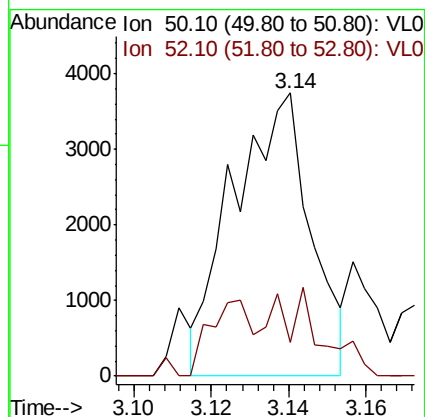
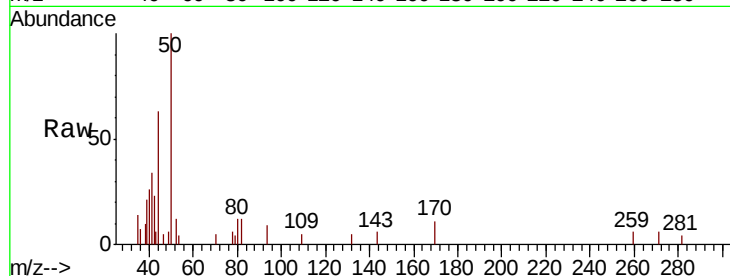
GOI-IA-4(2021)DL

Tot Ion: 50 Resp: 5214

Ion Ratio Lower Upper

50 100

52 14.2 27.0 40.6#



#9

Propene

Concen: 0.334 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.19 min

Lab File: VL036776.D

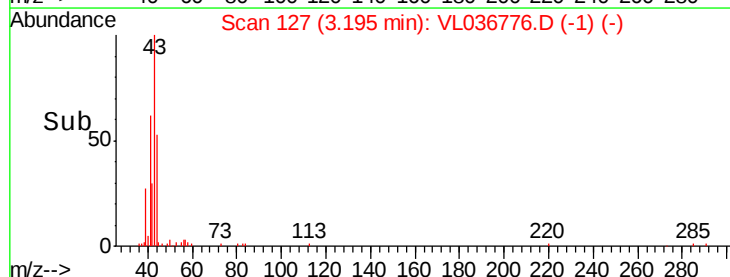
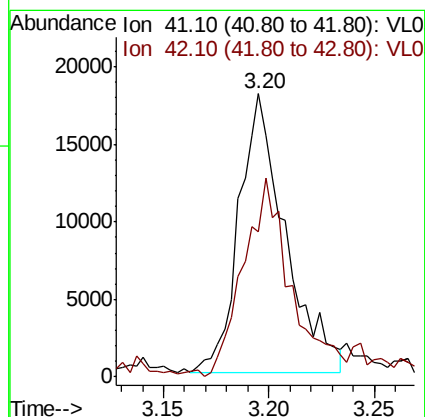
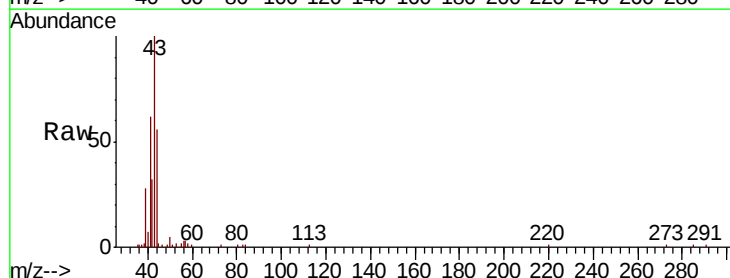
Acq: 9 Apr 2021 16:08

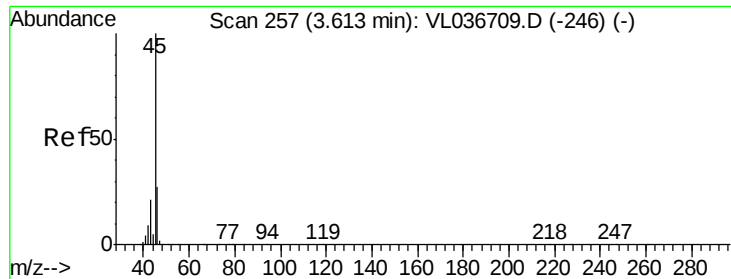
Tgt Ion: 41 Resp: 27442

Ion Ratio Lower Upper

41 100

42 84.1 57.0 85.4





#13

Ethanol

Concen: 5.058 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

Instrument :

MSVOA_L

ClientSampleId :

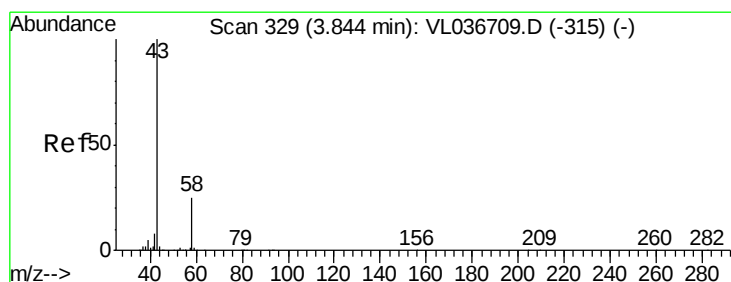
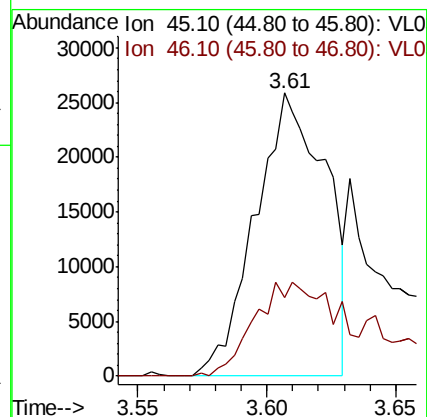
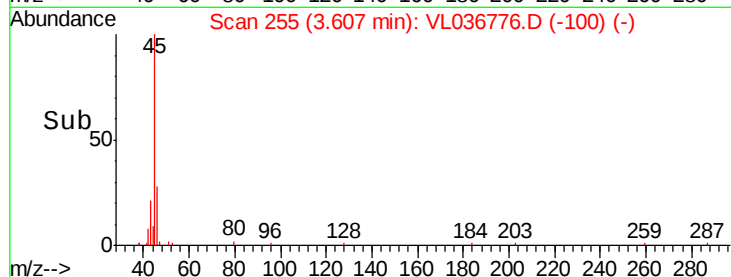
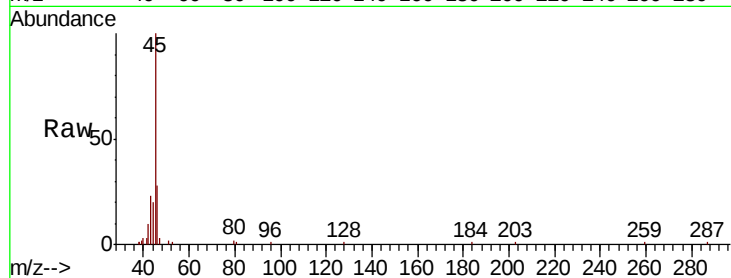
GOI-IA-4(2021)DL

Tot Ion: 45 Resp: 49441

Ion Ratio Lower Upper

45 100

46 65.5 16.6 66.2



#15

Acetone

Concen: 0.443 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL036776.D

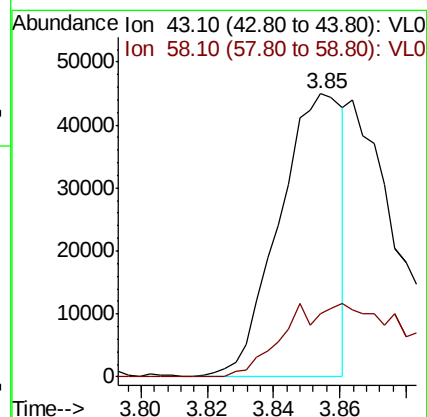
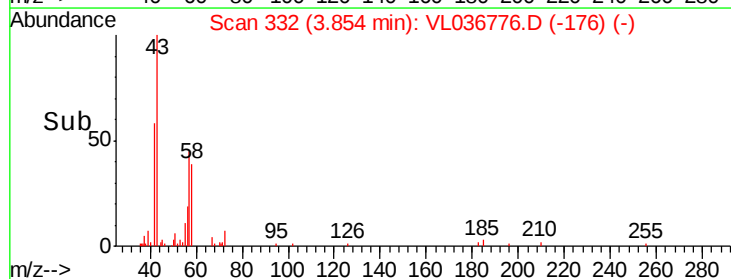
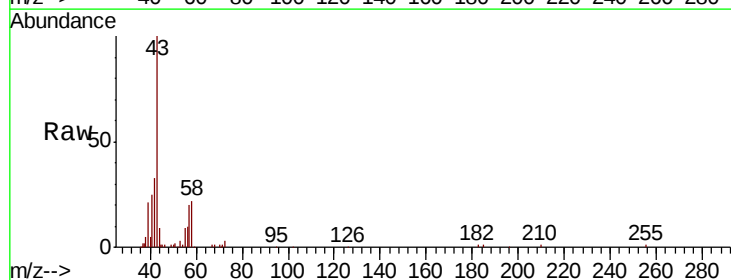
Acq: 9 Apr 2021 16:08

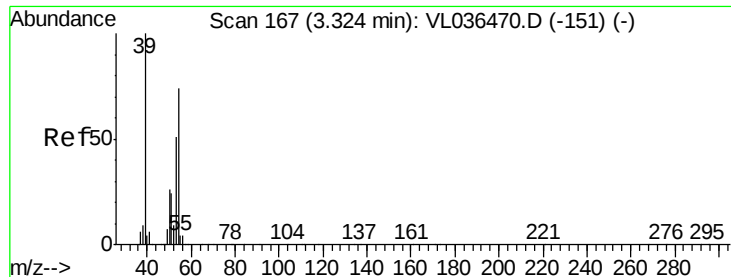
Tgt Ion: 43 Resp: 60035

Ion Ratio Lower Upper

43 100

58 0.0 21.2 31.8#





#16

1,3-Butadiene

Concen: 0.089 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

Instrument :

MSVOA_L

ClientSampleId :

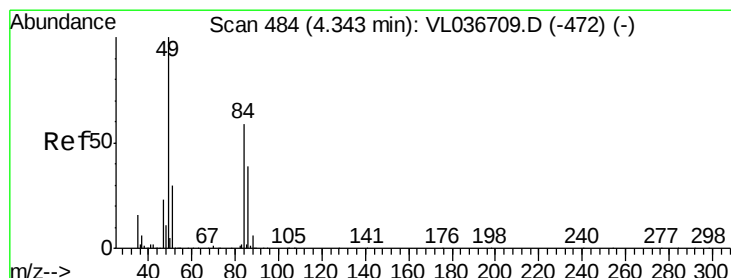
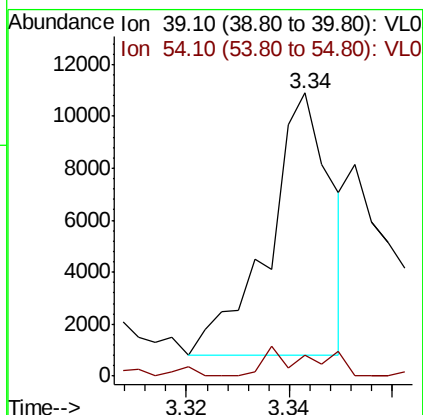
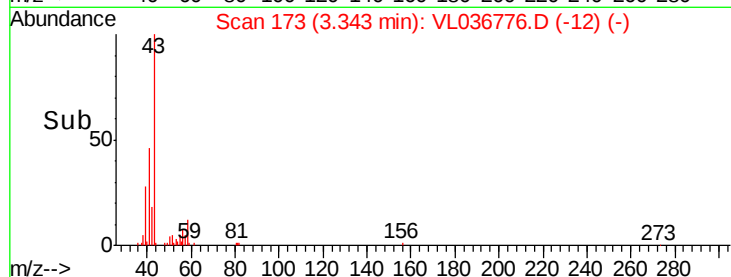
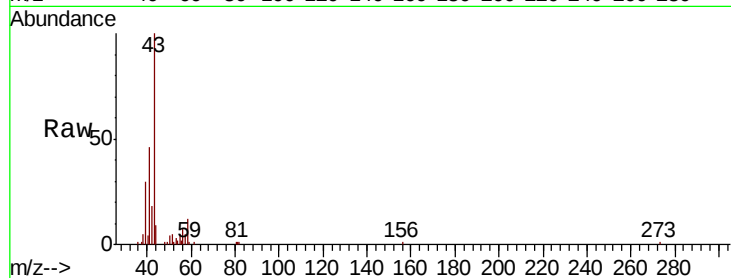
GOI-IA-4(2021)DL

Tot Ion: 39 Resp: 8445

Ion Ratio Lower Upper

39 100

54 9.1 58.8 88.2#



#20

Methylene Chloride

Concen: 1.602 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

Tgt Ion: 84 Resp: 101750

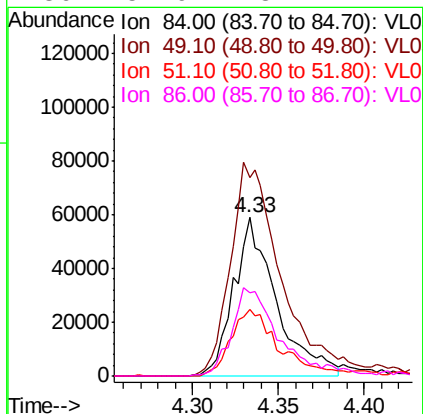
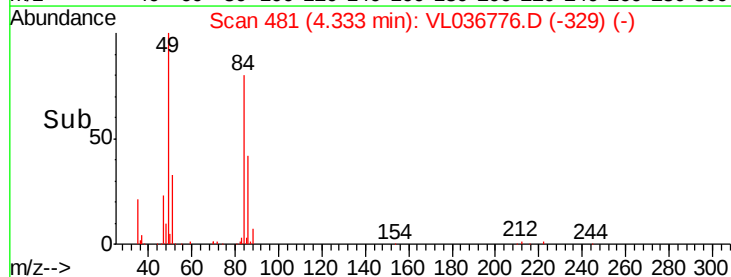
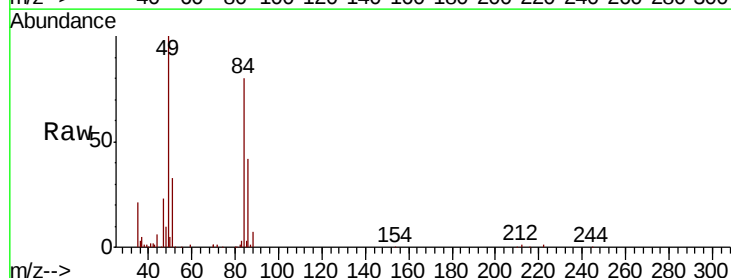
Ion Ratio Lower Upper

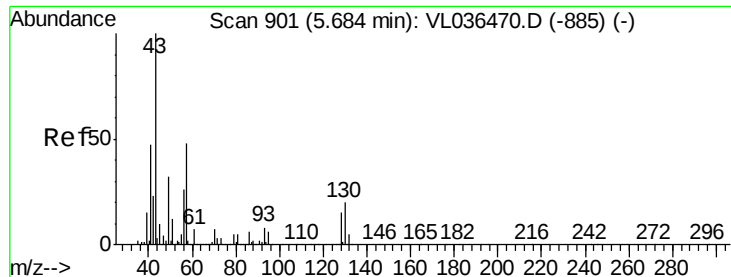
84 100

49 125.1 122.9 184.3

51 41.5 36.9 55.3

86 52.9 48.2 72.4





#25

Ethyl Acetate

Concen: 0.141 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

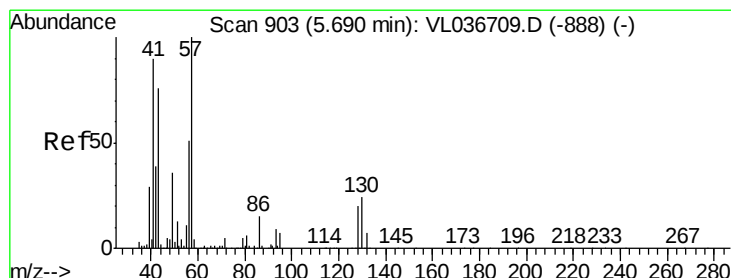
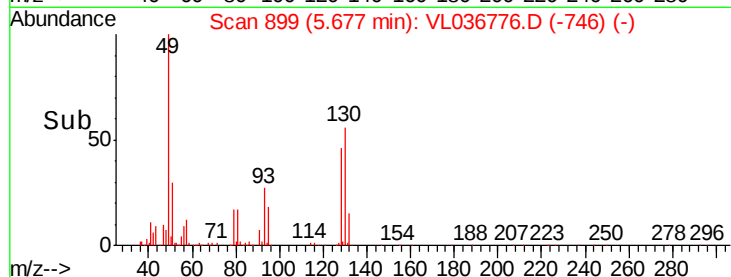
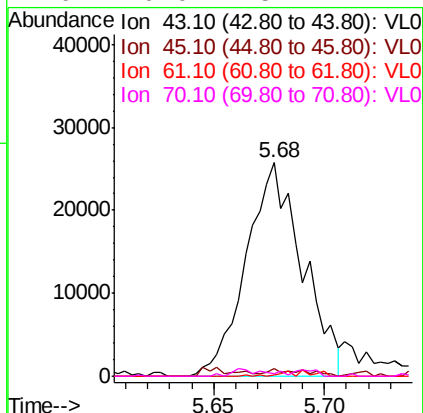
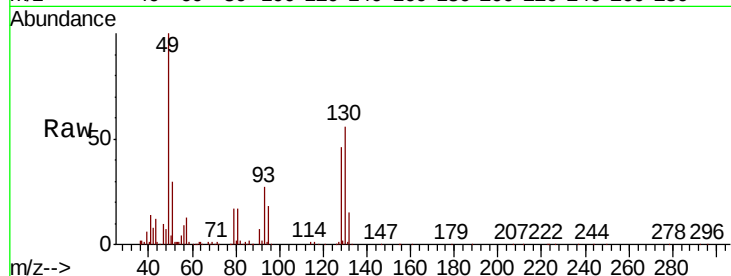
Instrument :

MSVOA_L

ClientSampleId :

GOI-IA-4(2021)DL

Tot Ion:	43	Resp:	45317
Ion	Ratio	Lower	Upper
43	100		
45	3.0	7.9	11.9#
61	1.4	7.4	11.2#
70	0.0	5.1	7.7#



#26

Hexane

Concen: 0.191 ppbv

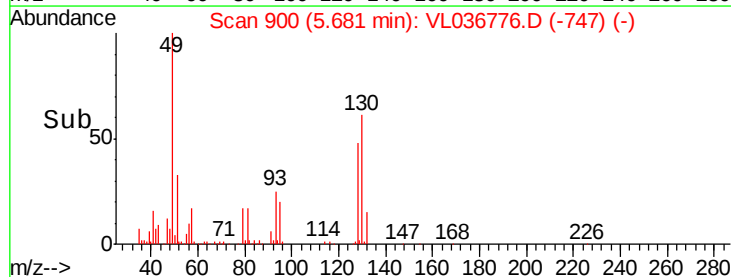
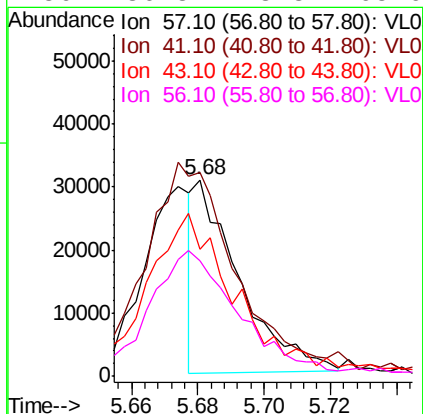
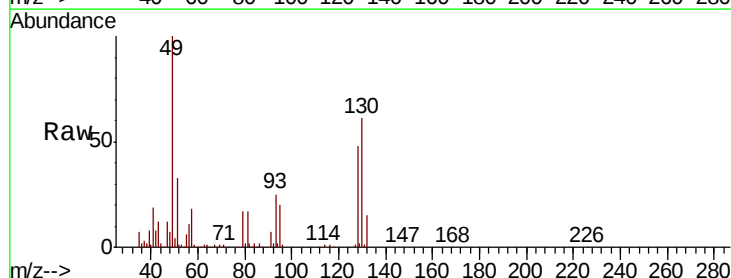
RT: 5.68 min Scan# 900

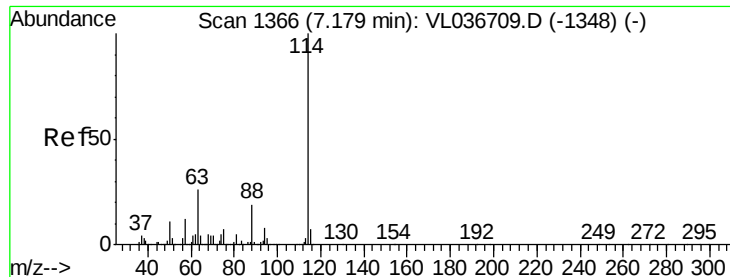
Delta R.T. -0.01 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

Tgt Ion:	57	Resp:	28643
Ion	Ratio	Lower	Upper
57	100		
41	0.0	77.2	115.8#
43	176.9	173.8	260.6
56	136.8	43.8	65.6#

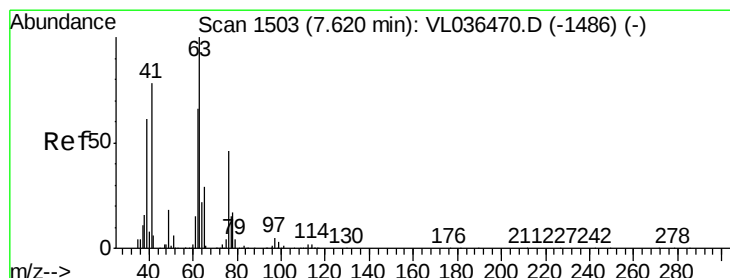
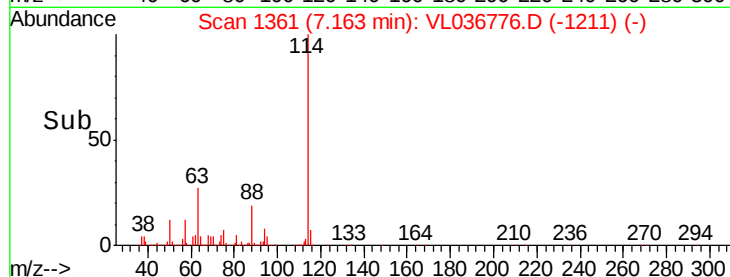
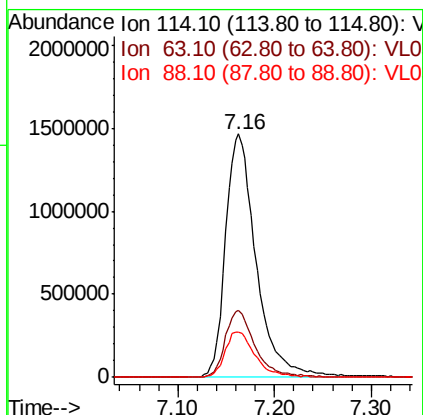
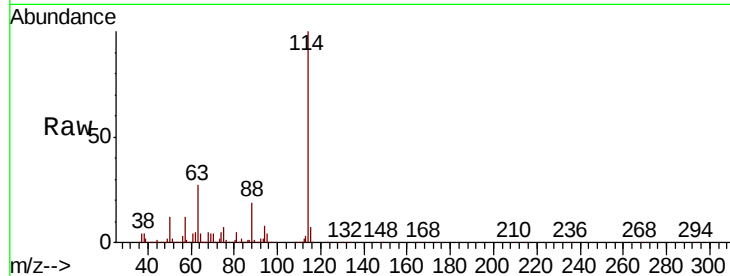




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.02 min
 Lab File: VL036776.D
 Acq: 9 Apr 2021 16:08

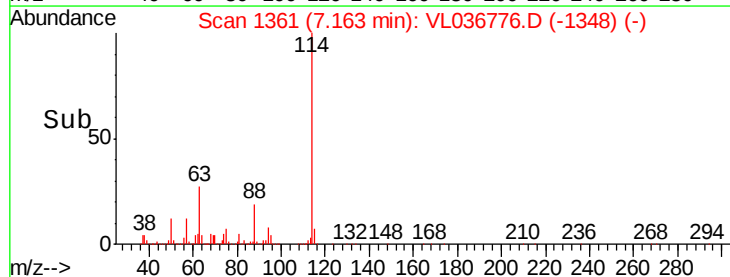
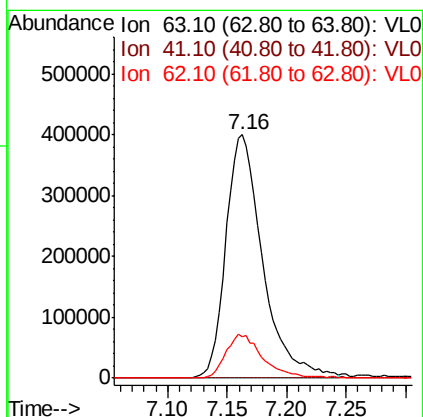
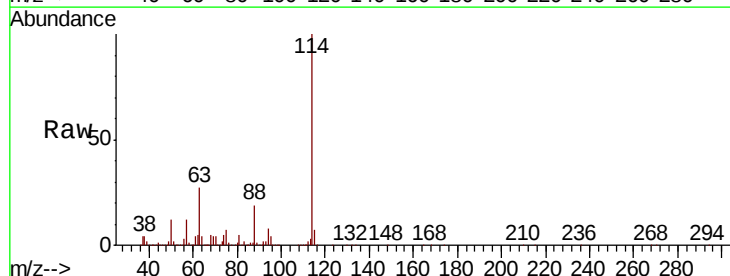
Instrument :
 MSVOA_L
 ClientSampleId :
 GOI-IA-4(2021)DL

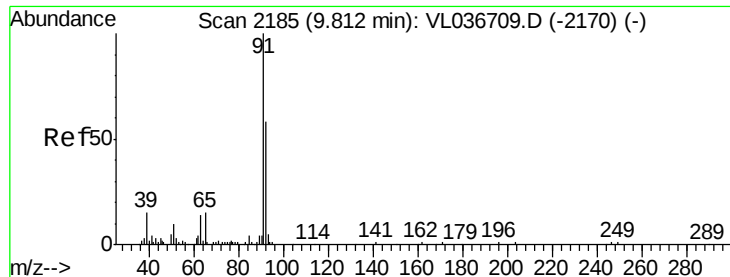
Tot Ion:114 Resp: 3217106
 Ion Ratio Lower Upper
 114 100
 63 26.7 22.4 33.6
 88 18.8 15.4 23.0



#39
 1,2-Dichloropropane
 Concen: 7.103 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL036776.D
 Acq: 9 Apr 2021 16:08

Tgt Ion: 63 Resp: 854935
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 17.1 52.8 79.2#





#53

Toluene

Concen: 0.096 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.02 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

Instrument :

MSVOA_L

ClientSampleId :

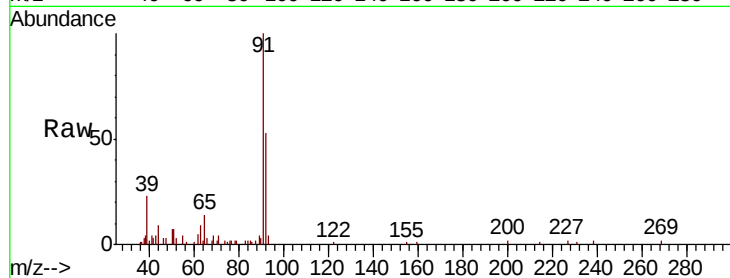
GOI-IA-4(2021)DL

Tot Ion: 91 Resp: 30245

Ion Ratio Lower Upper

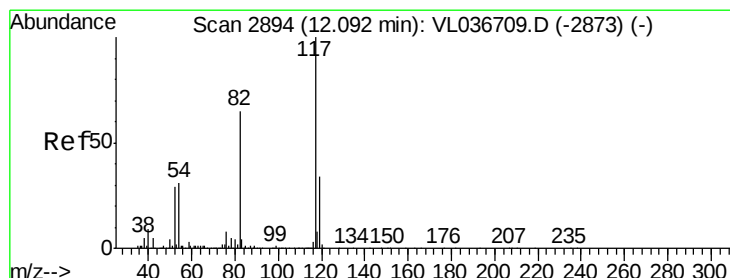
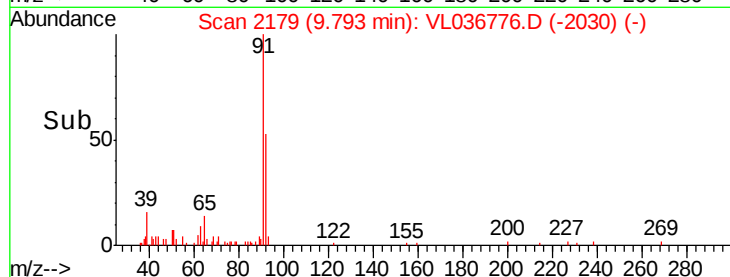
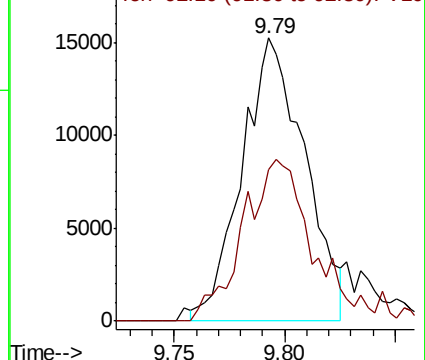
91 100

92 64.7 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

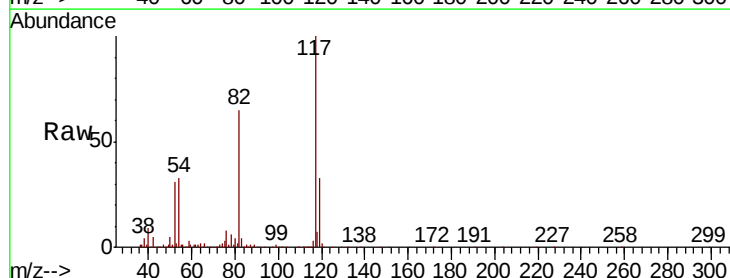
Tgt Ion: 117 Resp: 2599749

Ion Ratio Lower Upper

117 100

82 69.7 57.4 86.0

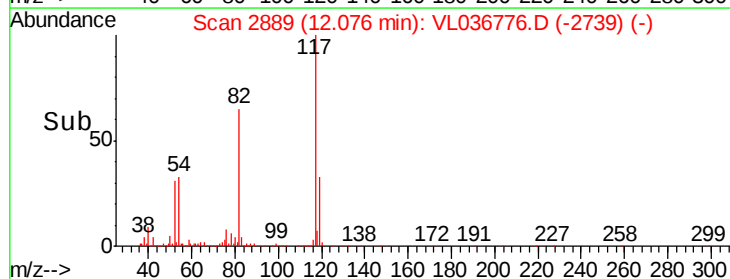
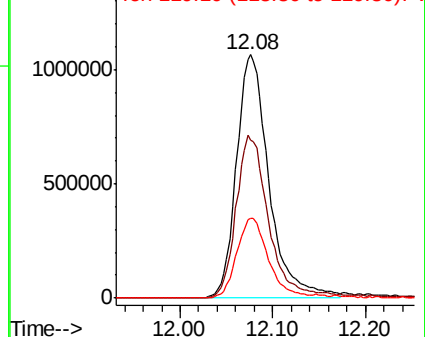
119 33.0 47.4 71.0#

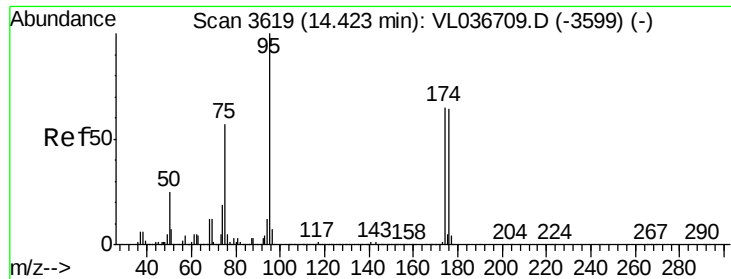


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 8.257 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036776.D

Acq: 9 Apr 2021 16:08

Instrument :

MSVOA_L

ClientSampleId :

GOI-IA-4(2021)DL

Tot Ion: 95 Resp: 1710861

Ion Ratio Lower Upper

95 100

174 65.0 51.0 76.6

175 4.4 3.9 5.9

