

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060821\
 Data File : VL037133.D
 Acq On : 8 Jun 2021 15:39
 Operator : SY/AP
 Sample : M2614-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 09 01:19:48 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1345569	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	3900979	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.08	117	3563214	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2663068	9.95	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

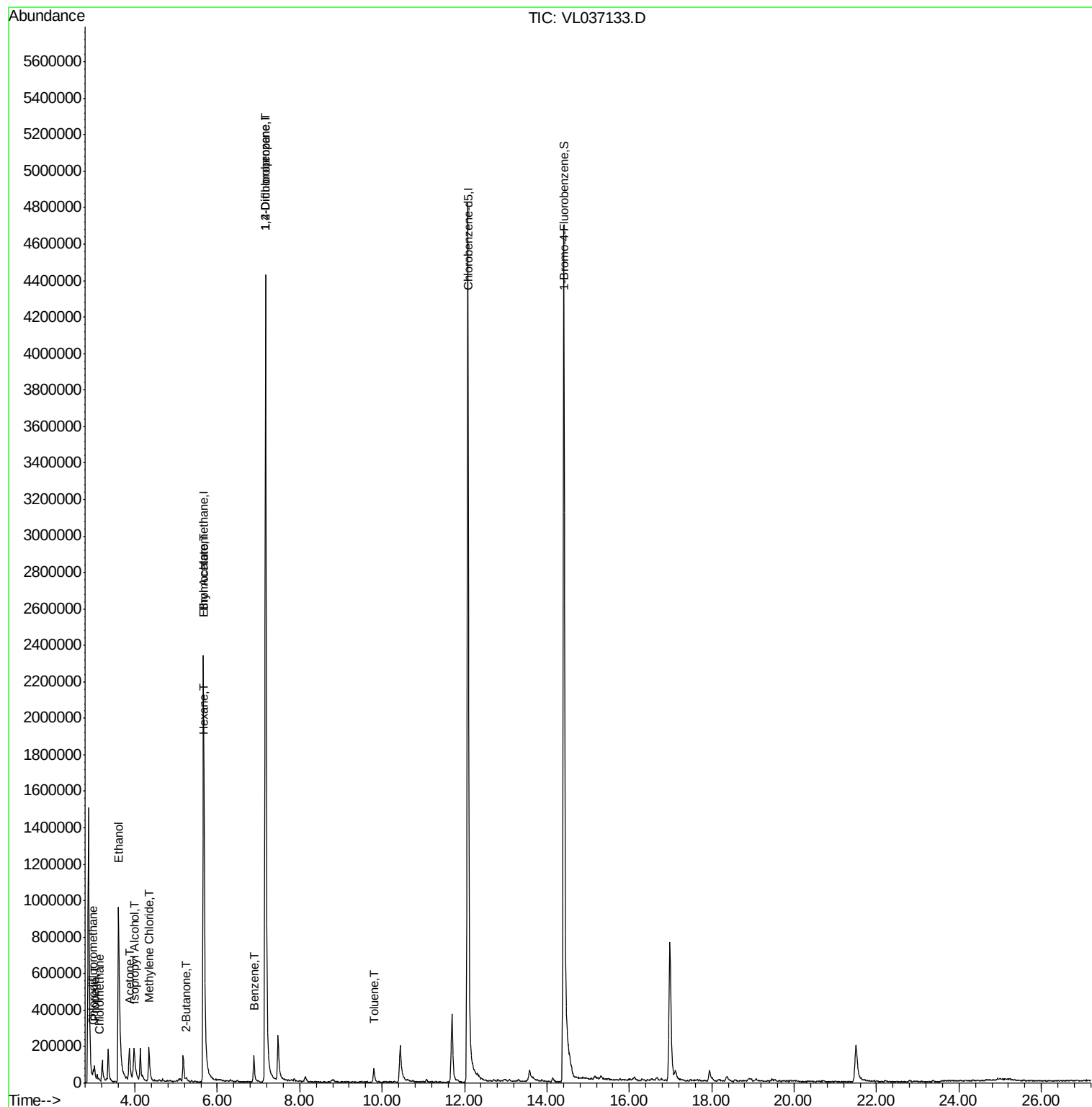
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	80528	0.327	ppbv	94
4) Chloromethane	3.14	50	2917	0.035	ppbv	89
9) Propene	3.01	41	14549	0.165	ppbv #	41
13) Ethanol	3.60	45	1542151	130.940	ppbv	94
15) Acetone	3.86	43	220726	1.602	ppbv #	86
19) Isopropyl Alcohol	3.98	45	109752	1.481	ppbv #	51
20) Methylene Chloride	4.34	84	76385	1.034	ppbv	96
25) Ethyl Acetate	5.68	43	24616	0.074	ppbv #	87
26) Hexane	5.69	57	24710	0.146	ppbv #	1
34) 2-Butanone	5.25	43	15883	0.112	ppbv #	19
36) Benzene	6.89	78	120312	0.358	ppbv	99
39) 1,2-Dichloropropane	7.17	63	954637	7.375	ppbv #	25
53) Toluene	9.80	91	39143	0.098	ppbv #	60

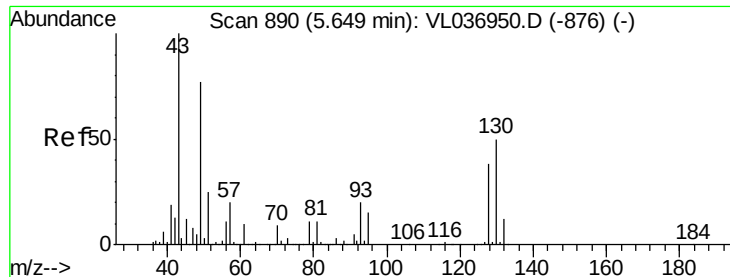
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.02 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :

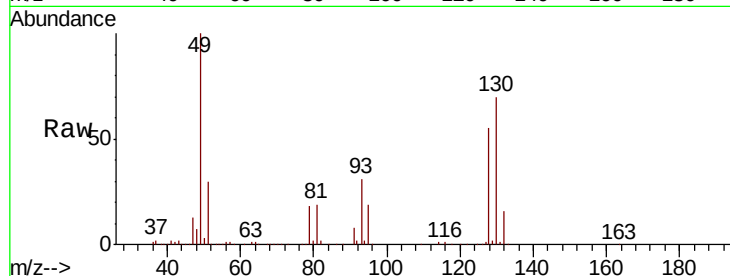
Tot Ion: 49 Resp: 1345569

Ion Ratio Lower Upper

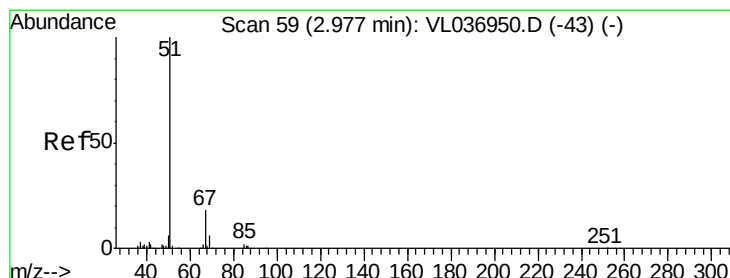
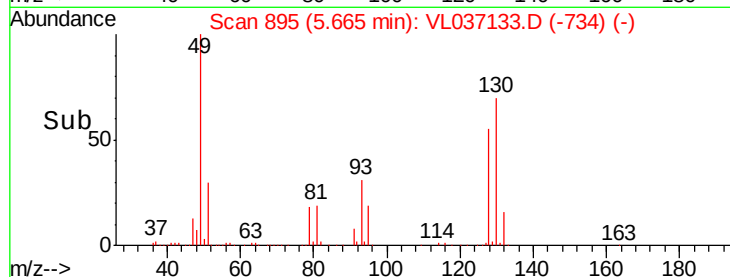
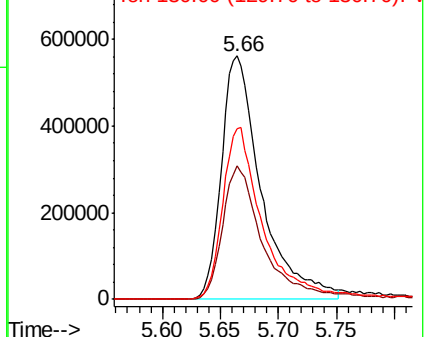
49 100

128 56.6 26.9 80.7

130 73.6 33.8 101.4



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: 0.327 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL037133.D

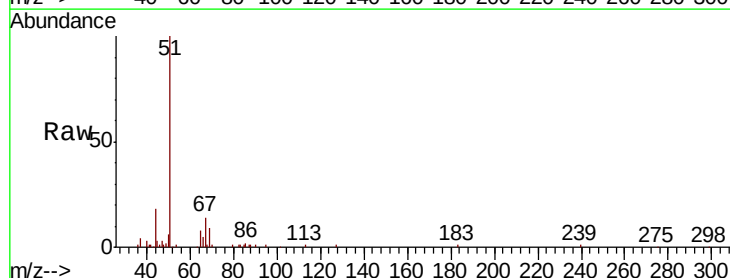
Acq: 8 Jun 2021 15:39

Tgt Ion: 51 Resp: 80528

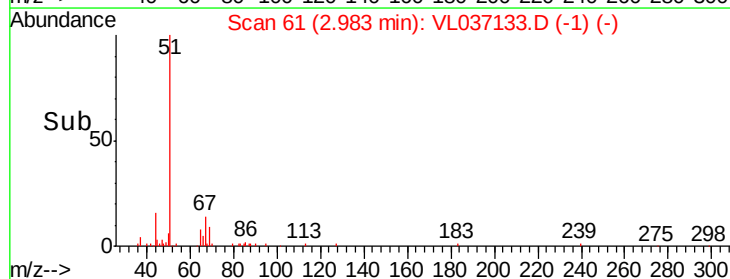
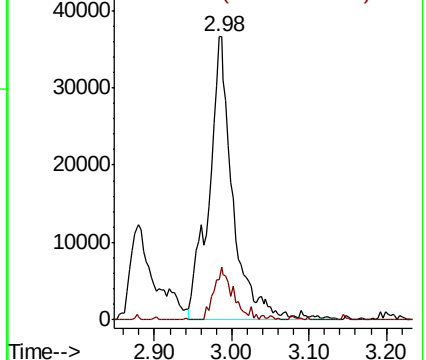
Ion Ratio Lower Upper

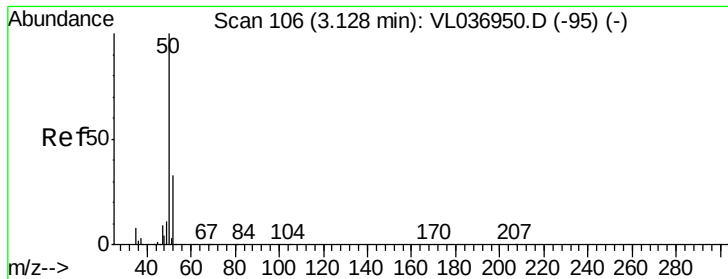
51 100

67 15.5 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :

MSVOA_L

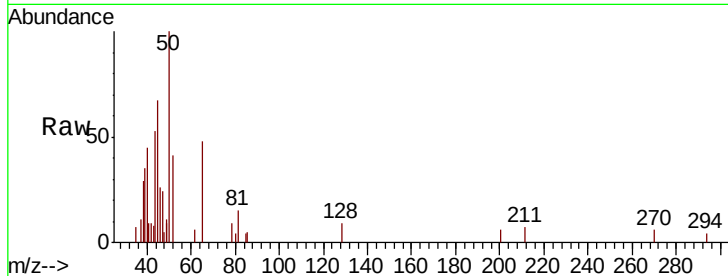
ClientSampleId :

Tot Ion: 50 Resp: 2917

Ion Ratio Lower Upper

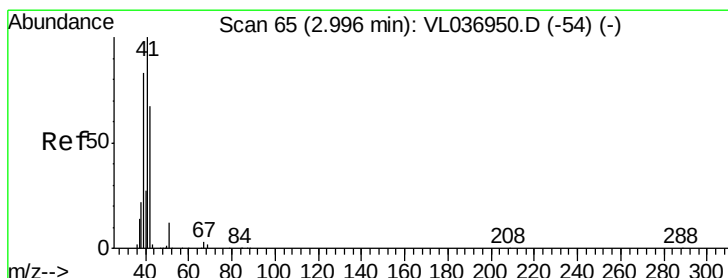
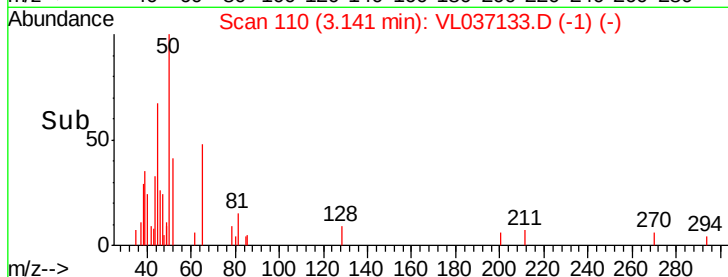
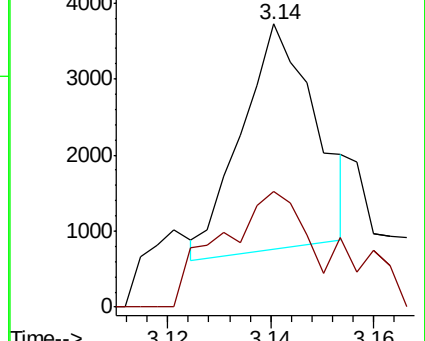
50 100

52 26.6 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.165 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037133.D

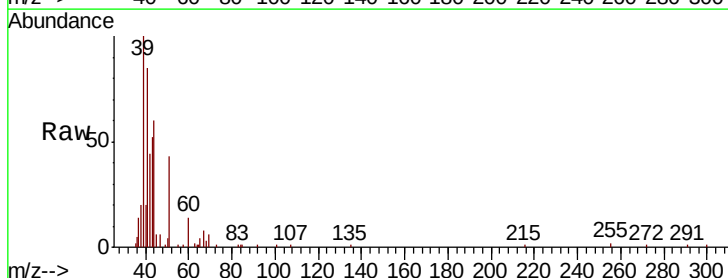
Acq: 8 Jun 2021 15:39

Tgt Ion: 41 Resp: 14549

Ion Ratio Lower Upper

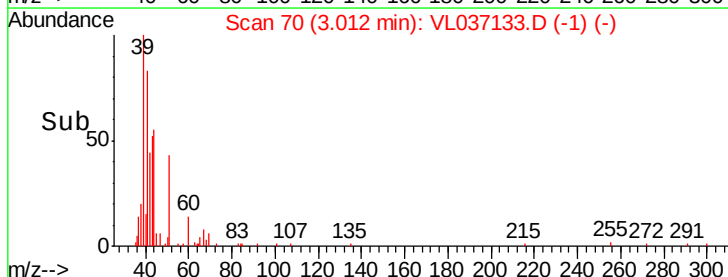
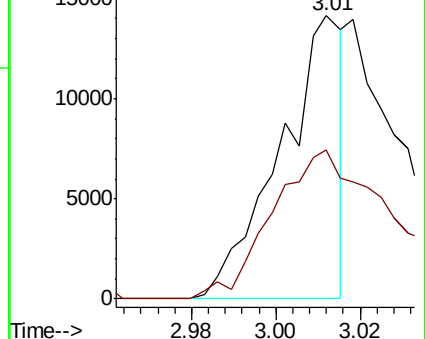
41 100

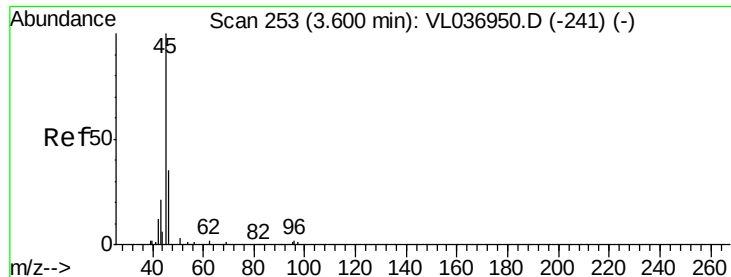
42 115.1 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 130.940 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :

MSVOA_L

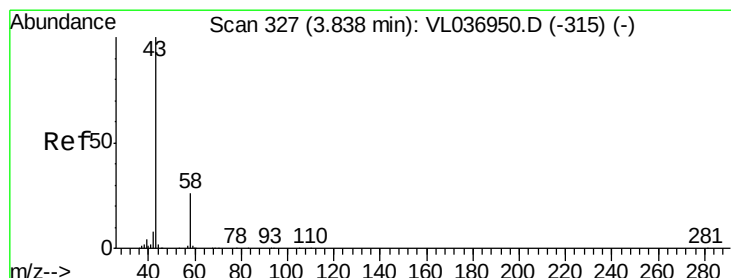
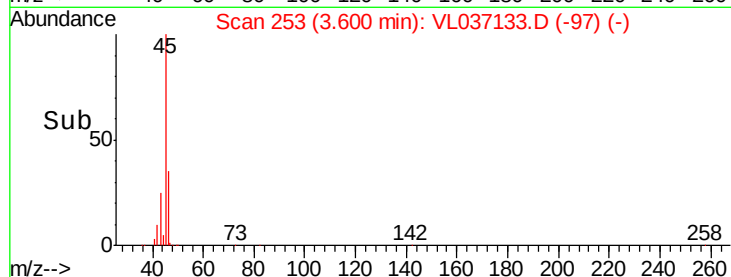
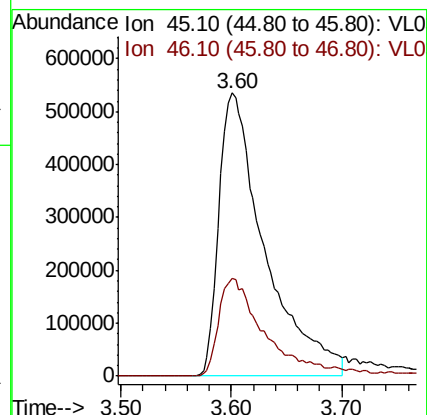
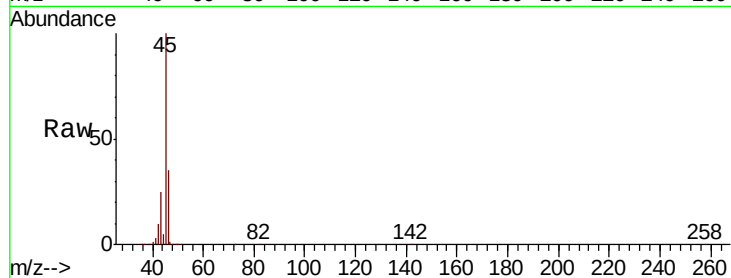
ClientSampleId :

Tot Ion: 45 Resp: 1542151

Ion Ratio Lower Upper

45 100

46 37.1 16.3 65.3



#15

Acetone

Concen: 1.602 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL037133.D

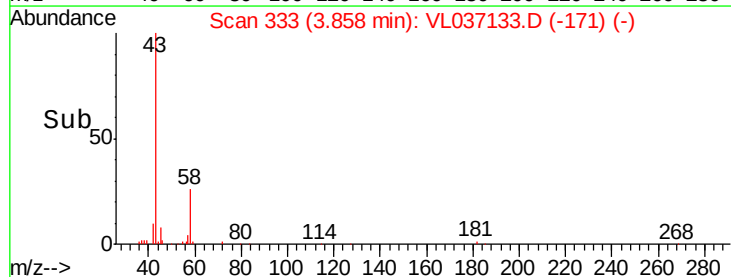
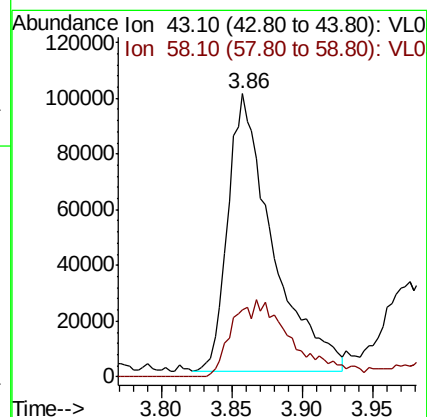
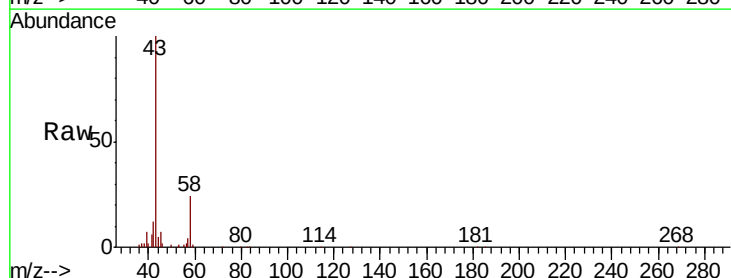
Acq: 8 Jun 2021 15:39

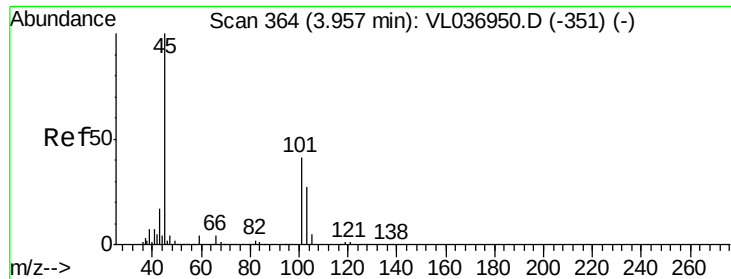
Tgt Ion: 43 Resp: 220726

Ion Ratio Lower Upper

43 100

58 37.4 24.0 36.0#





#19

Isopropyl Alcohol

Concen: 1.481 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :

MSVOA_L

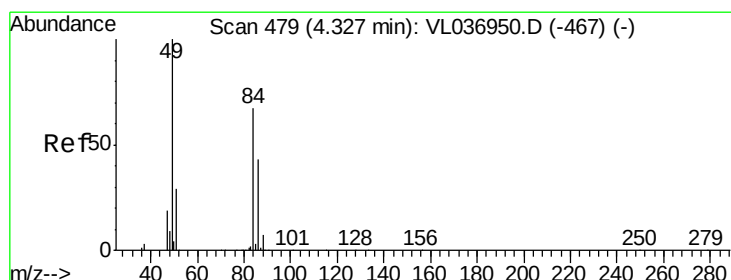
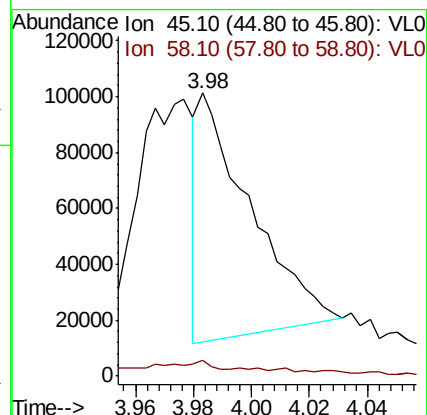
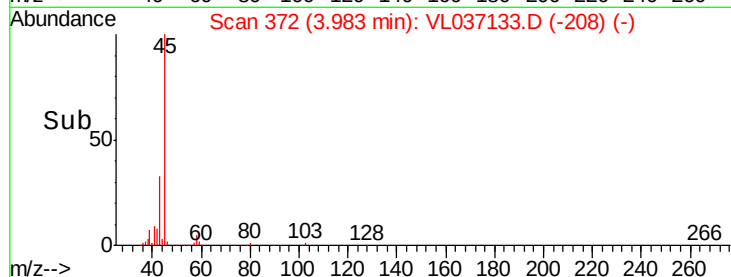
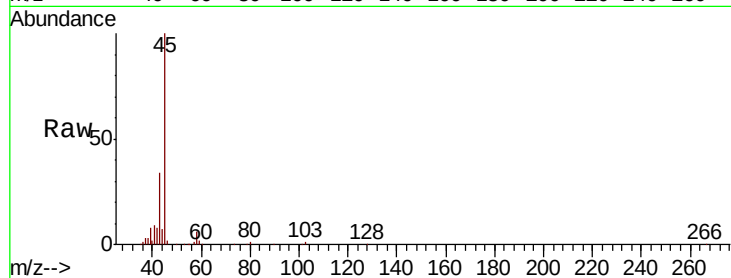
ClientSampleId :

Tot Ion: 45 Resp: 109752

Ion Ratio Lower Upper

45 100

58 13.7 37.2 55.8#



#20

Methylene Chloride

Concen: 1.034 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Tgt Ion: 84 Resp: 76385

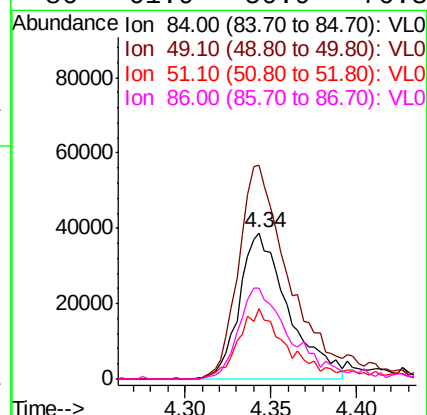
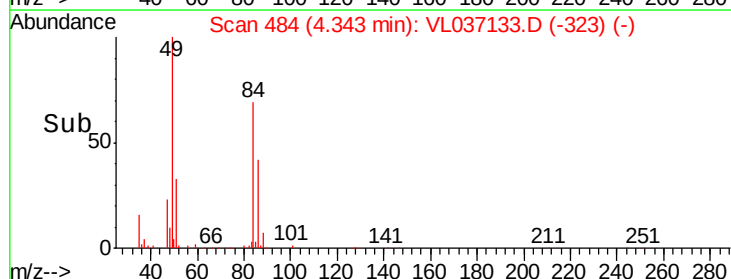
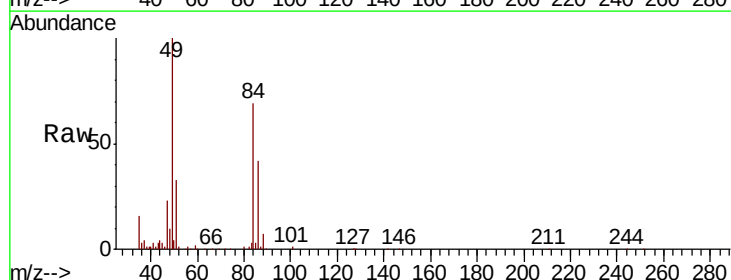
Ion Ratio Lower Upper

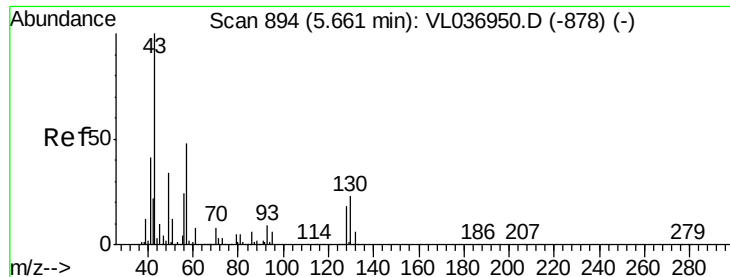
84 100

49 145.9 119.8 179.6

51 49.4 35.1 52.7

86 61.9 50.9 76.3





#25

Ethyl Acetate

Concen: 0.074 ppbv

RT: 5.68 min Scan# 899

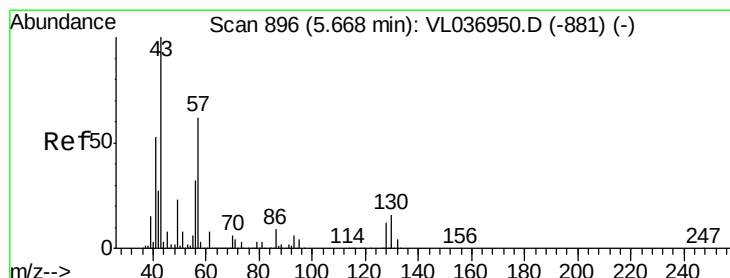
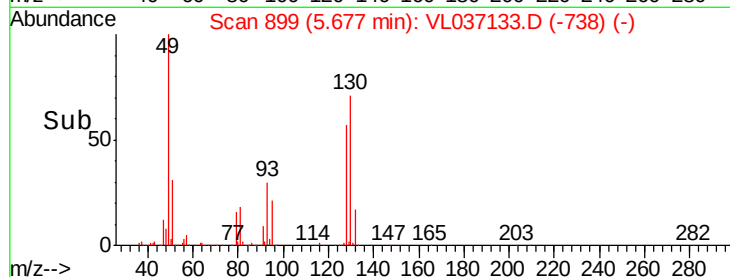
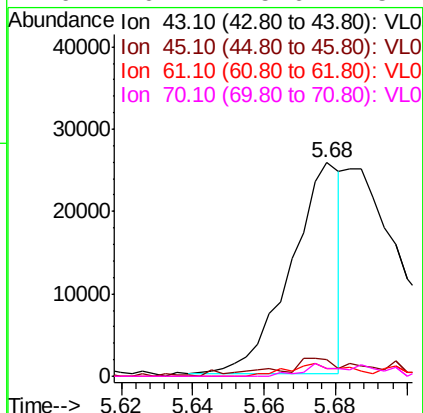
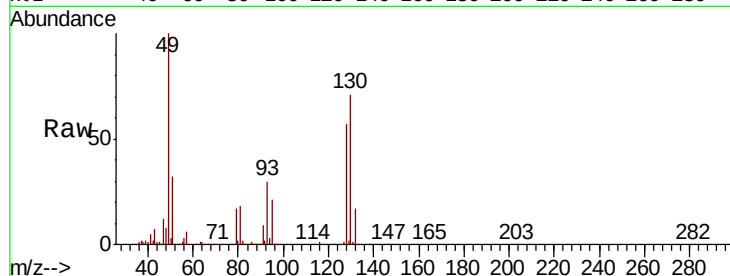
Delta R.T. 0.02 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	24616
Ion	Ratio	Lower	Upper
43	100		
45	18.8	7.8	11.8#
61	10.9	7.8	11.8
70	10.7	5.6	8.4#



#26

Hexane

Concen: 0.146 ppbv

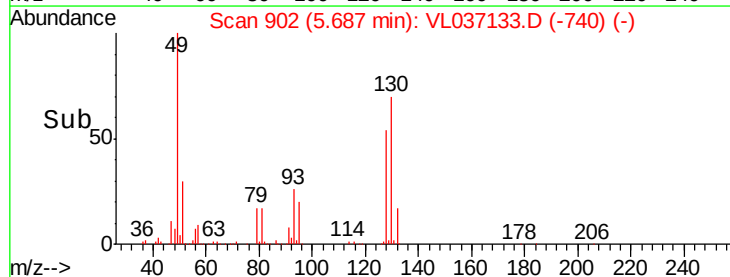
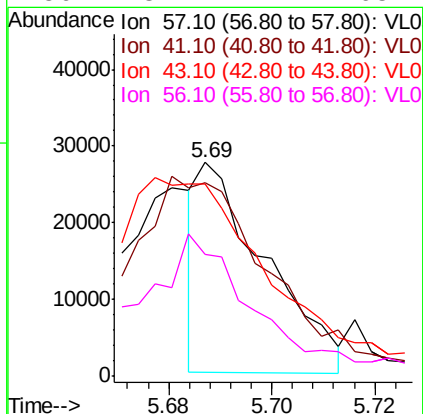
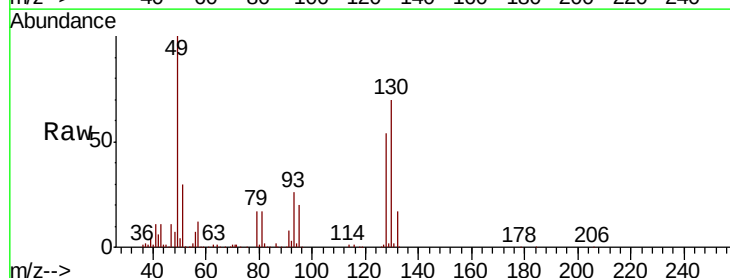
RT: 5.69 min Scan# 902

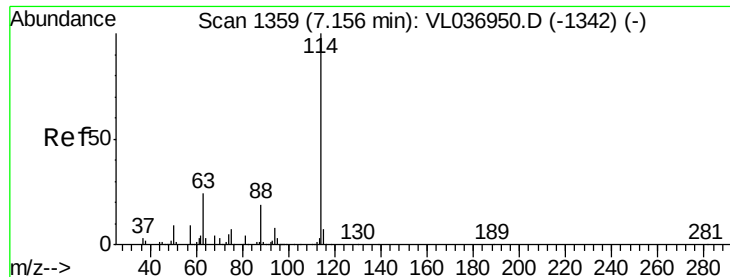
Delta R.T. 0.02 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Tgt Ion:	57	Resp:	24710
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.5	105.7#
43	0.0	165.8	248.8#
56	128.1	42.2	63.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :

MSVOA_L

ClientSampleId :

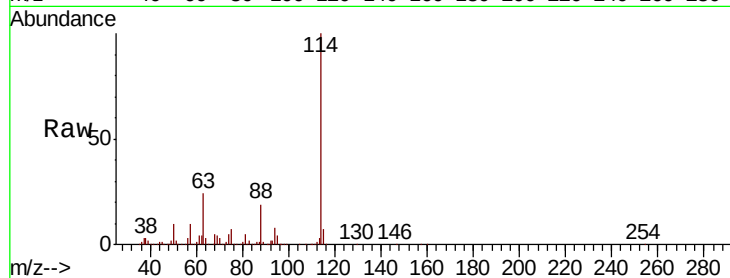
Tot Ion:114 Resp: 3900979

Ion Ratio Lower Upper

114 100

63 25.0 19.6 29.4

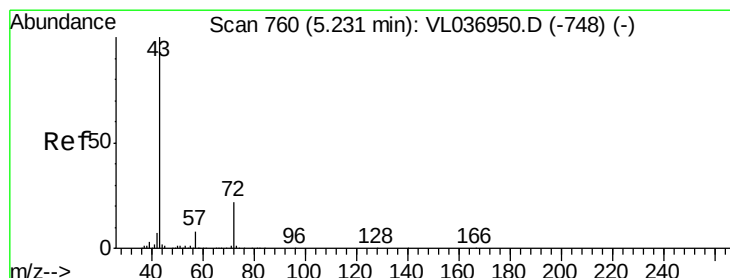
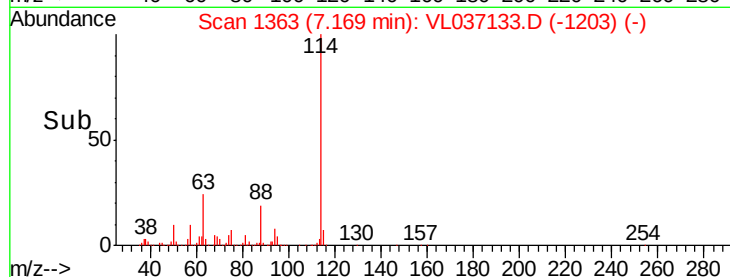
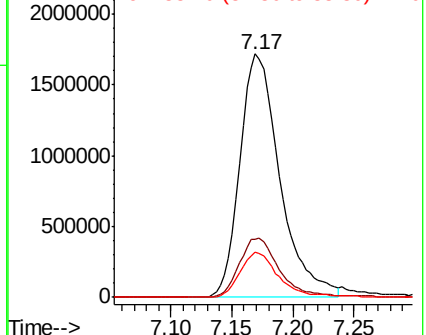
88 18.4 14.6 21.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.112 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.02 min

Lab File: VL037133.D

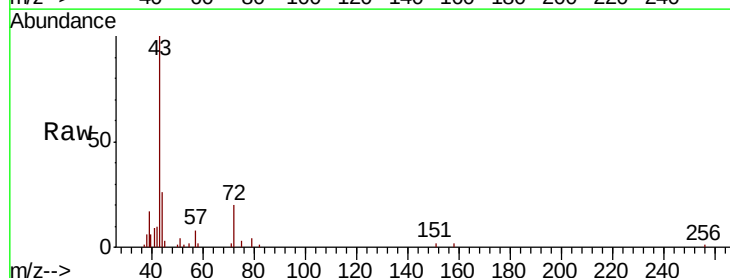
Acq: 8 Jun 2021 15:39

Tgt Ion: 43 Resp: 15883

Ion Ratio Lower Upper

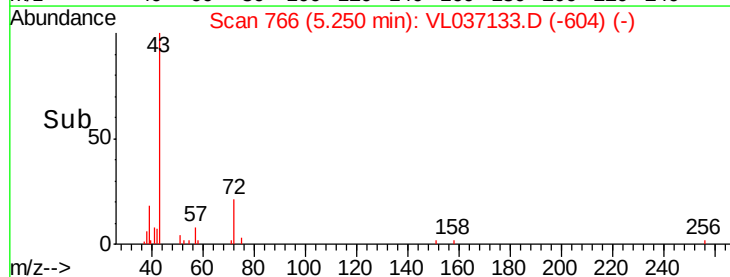
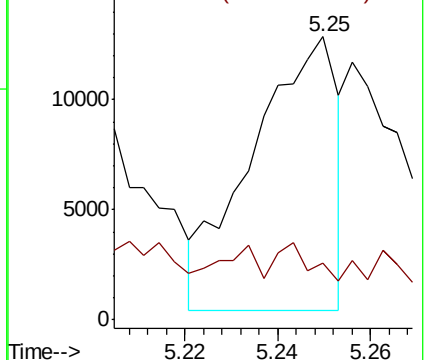
43 100

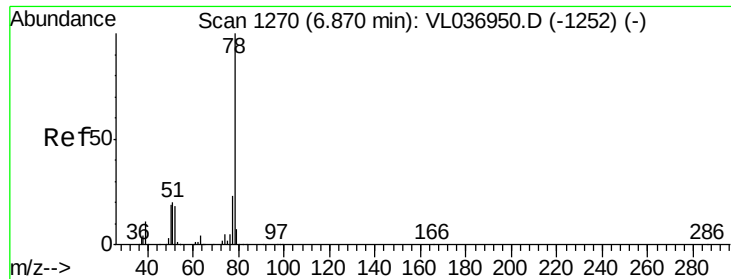
72 63.6 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



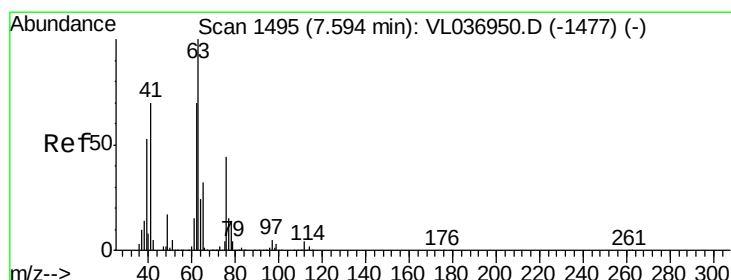
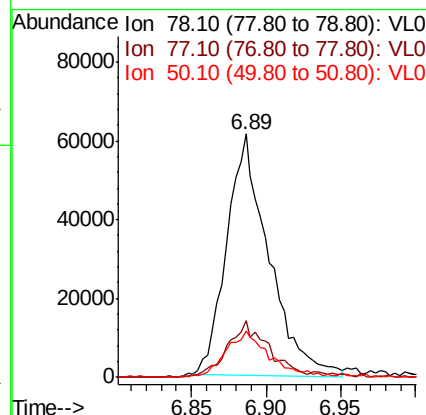
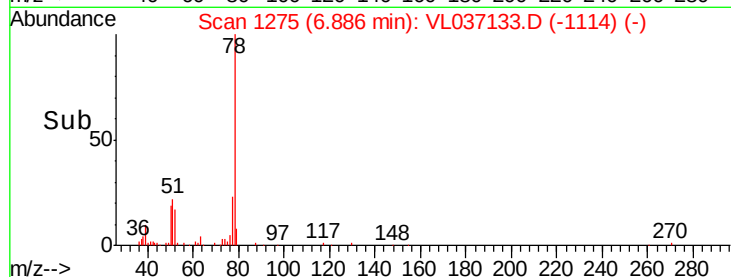
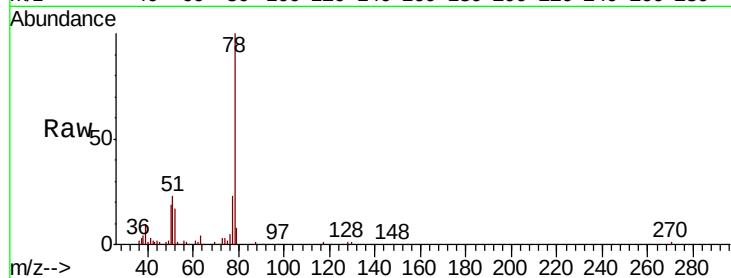


#36
Benzene
Concen: 0.358 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. 0.02 min
Lab File: VL037133.D
Acq: 8 Jun 2021 15:39

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 78 Resp: 120312

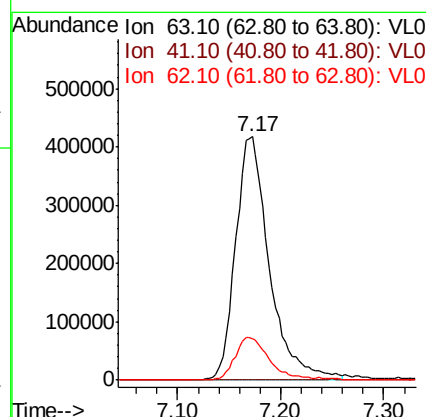
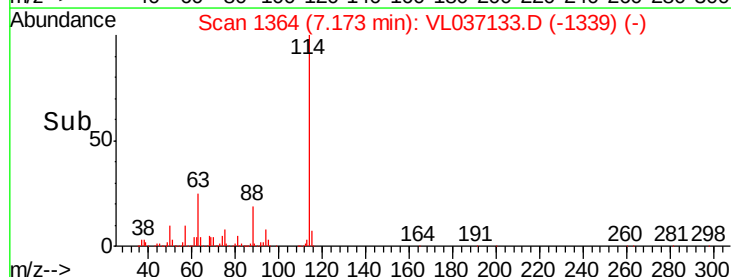
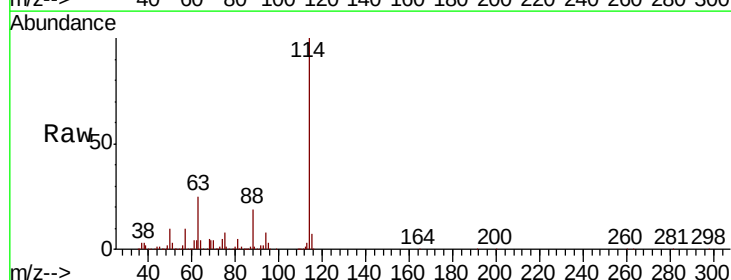
Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.6	28.0
50	18.0	15.0	22.4

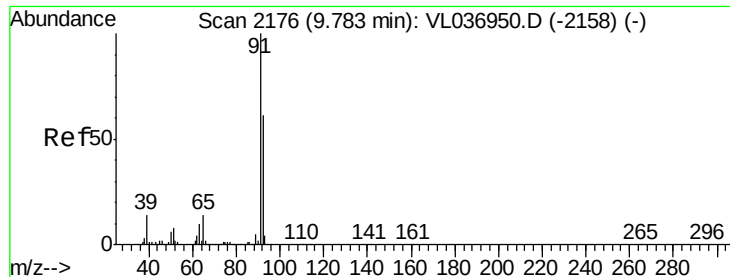


#39
1,2-Dichloropropane
Concen: 7.375 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.42 min
Lab File: VL037133.D
Acq: 8 Jun 2021 15:39

Tgt Ion: 63 Resp: 954637

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	16.8	56.2	84.4#





#53

Toluene

Concen: 0.098 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.02 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :

MSVOA_L

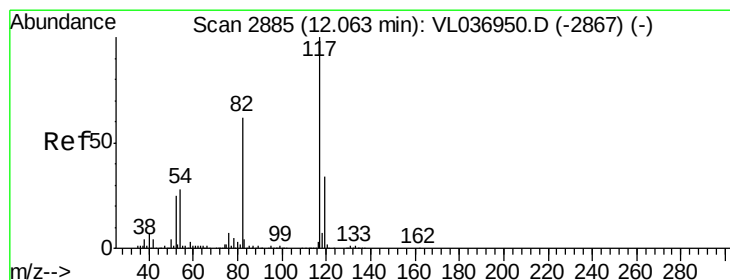
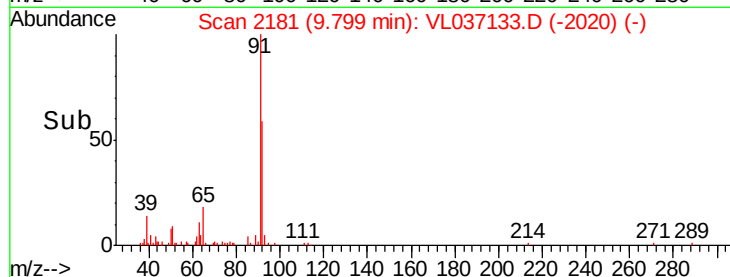
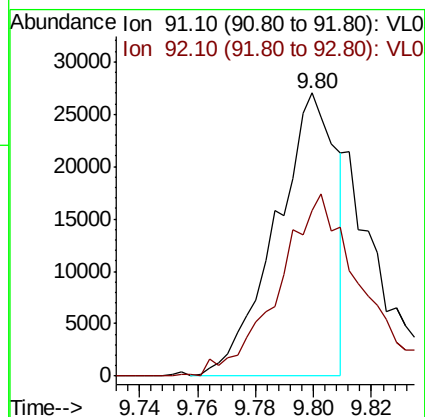
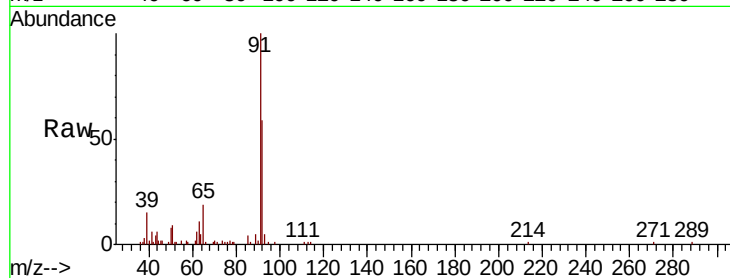
ClientSampleId :

Tot Ion: 91 Resp: 39143

Ion Ratio Lower Upper

91 100

92 92.6 49.5 74.3#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.02 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

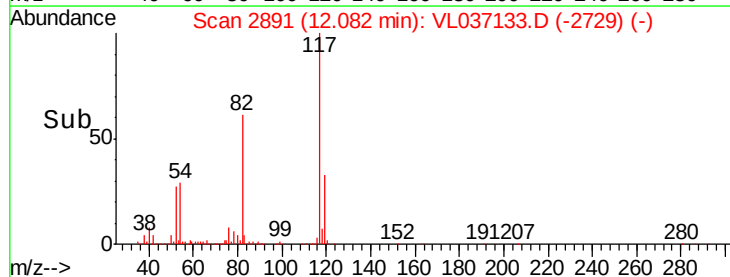
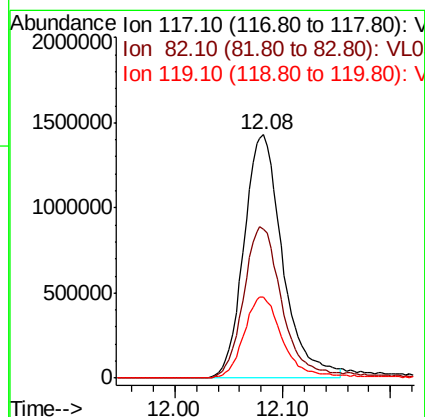
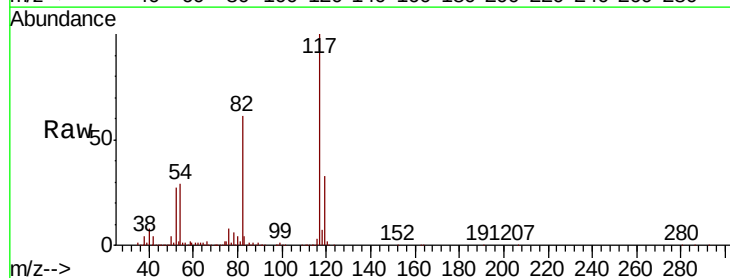
Tgt Ion: 117 Resp: 3563214

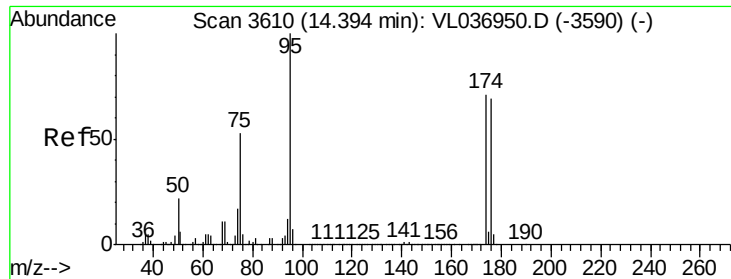
Ion Ratio Lower Upper

117 100

82 64.2 52.6 79.0

119 34.4 46.6 70.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.949 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.02 min

Lab File: VL037133.D

Acq: 8 Jun 2021 15:39

Instrument :

MSVOA_L

ClientSampleId :

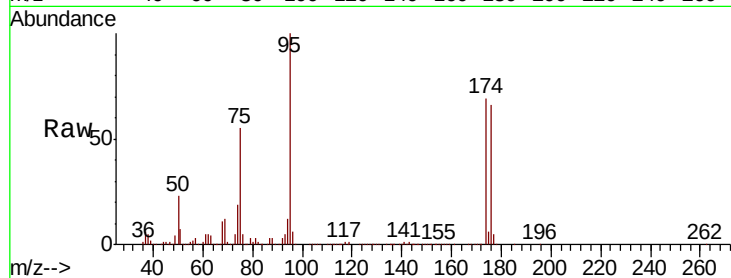
Tot Ion: 95 Resp: 2663068

Ion Ratio Lower Upper

95 100

174 74.1 58.4 87.6

175 5.4 4.4 6.6



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

