

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036831.D
 Acq On : 20 Apr 2021 21:13
 Operator : SY/AP
 Sample : M2096-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 21 06:39:11 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	5.67	49	1254814	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2990771	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2484923	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1766212	8.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.20%

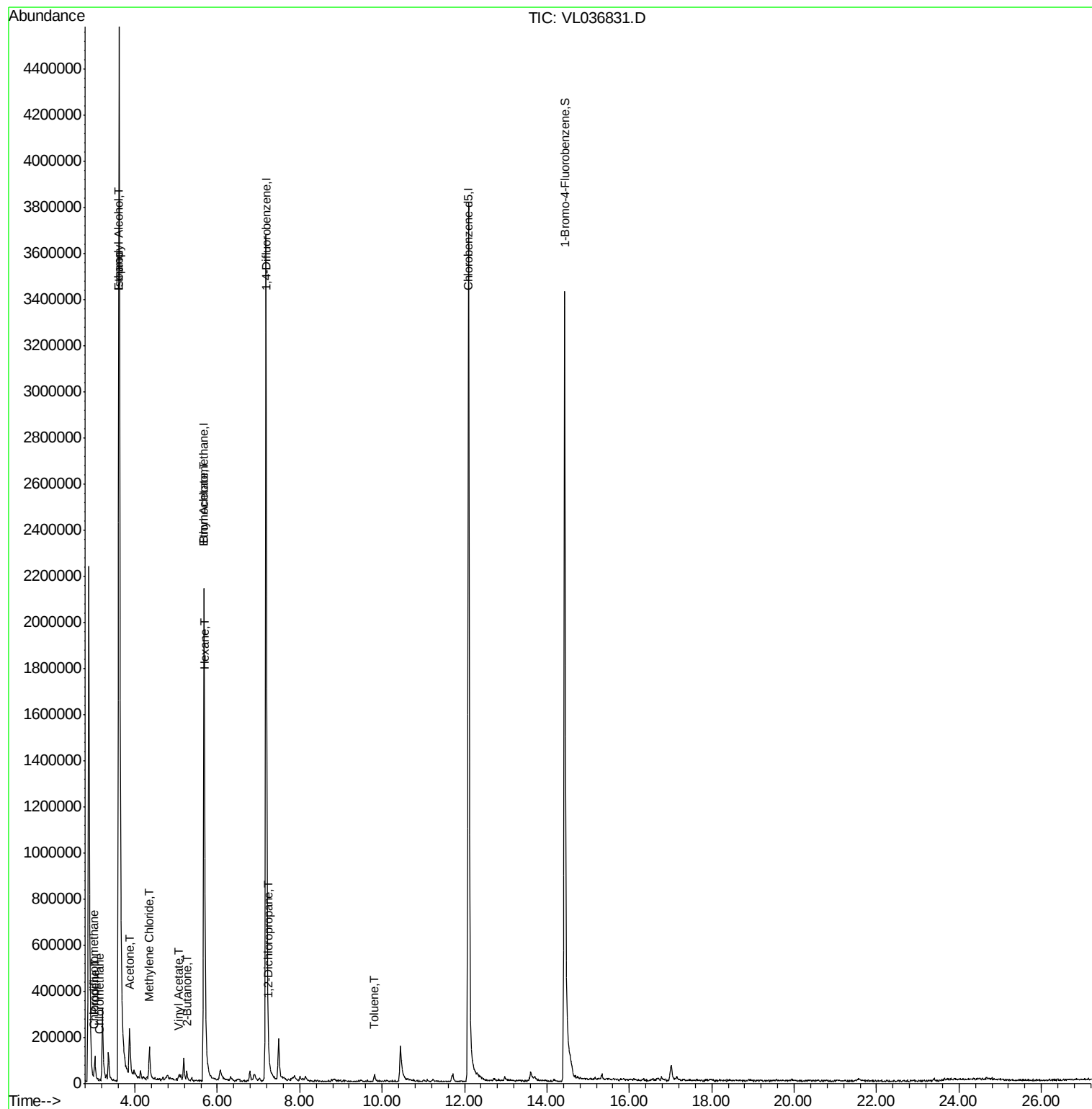
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	15846	0.068	ppbv	99
4) Chloromethane	3.14	50	7307	0.088	ppbv #	67
9) Propene	3.01	41	8458	0.113	ppbv #	14
13) Ethanol	3.61	45	7455683	837.688	ppbv	93
15) Acetone	3.86	43	212635	1.722	ppbv #	89
19) Isopropyl Alcohol	3.61	45	7455683	109.742	ppbv #	89
20) Methylene Chloride	4.35	84	53319	0.922	ppbv	95
23) Vinyl Acetate	5.08	43	10700	0.051	ppbv #	90
25) Ethyl Acetate	5.69	43	104271	0.355	ppbv #	96
26) Hexane	5.70	57	54997	0.404	ppbv #	85
34) 2-Butanone	5.25	43	14738	0.101	ppbv #	55
39) 1,2-Dichloropropane	7.25	63	8186	0.073	ppbv #	44
53) Toluene	9.81	91	11391	0.039	ppbv #	20

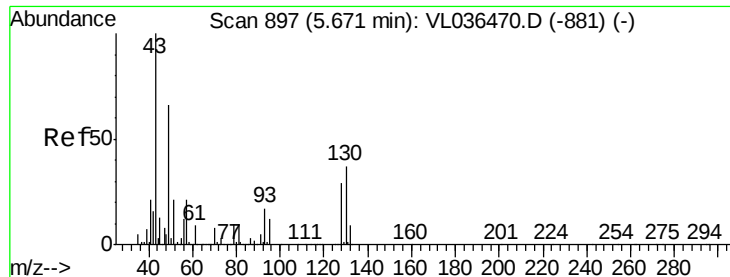
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 21:13

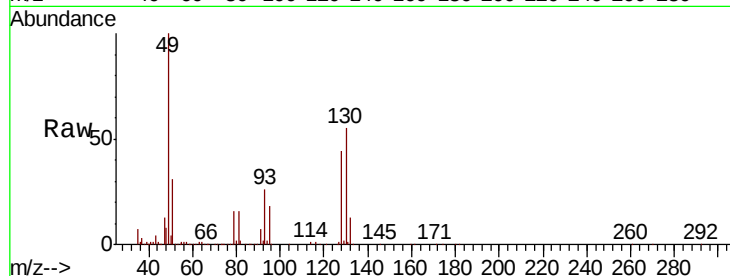
Tot Ion: 49 Resp: 1254814

Ion	Ratio	Lower	Upper
49	100		
128	46.3	23.5	70.6
130	58.9	29.1	87.4

49 100

128 46.3 23.5 70.6

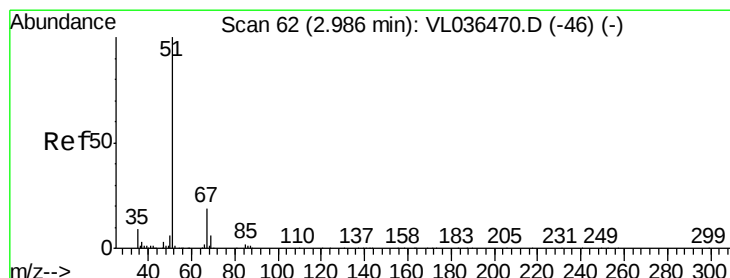
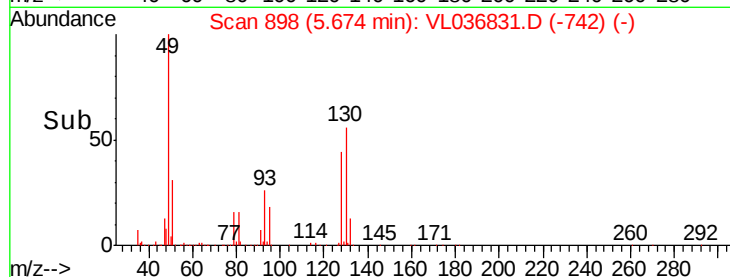
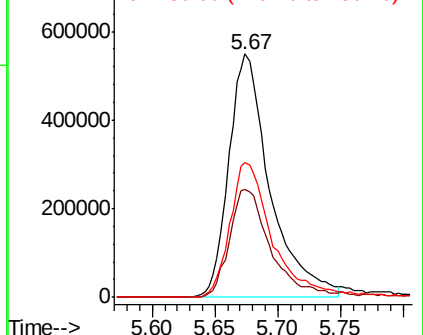
130 58.9 29.1 87.4



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: 0.068 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL036831.D

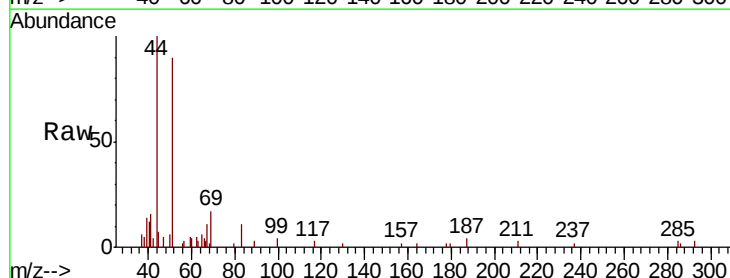
Acq: 20 Apr 2021 21:13

Tgt Ion: 51 Resp: 15846

Ion	Ratio	Lower	Upper
51	100		
67	18.0	14.7	22.1

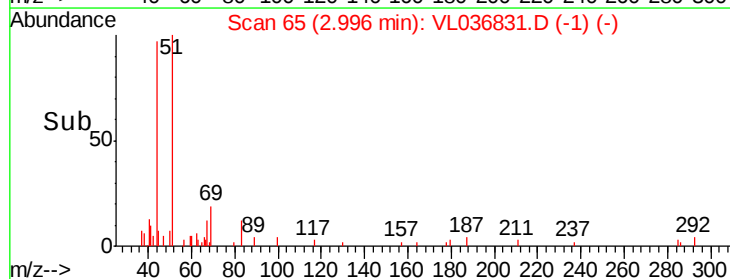
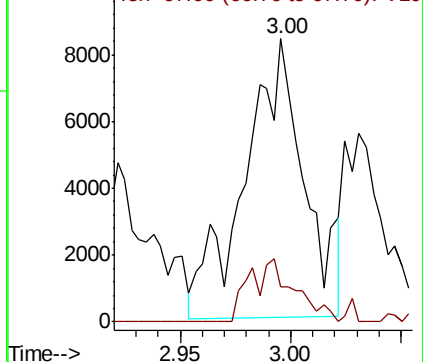
51 100

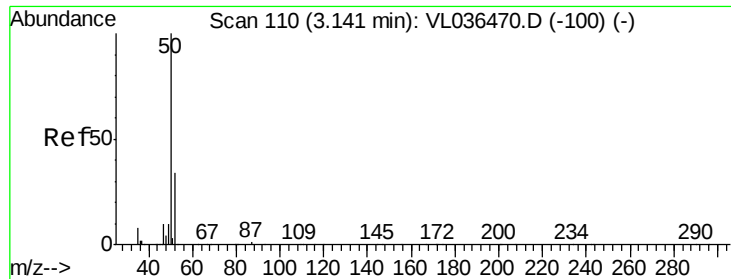
67 18.0 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.088 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

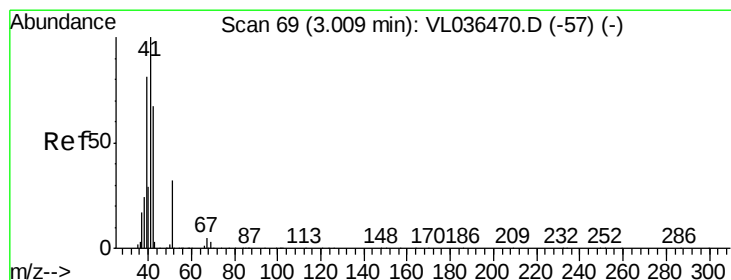
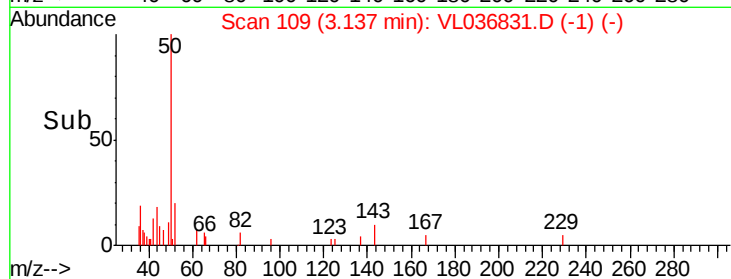
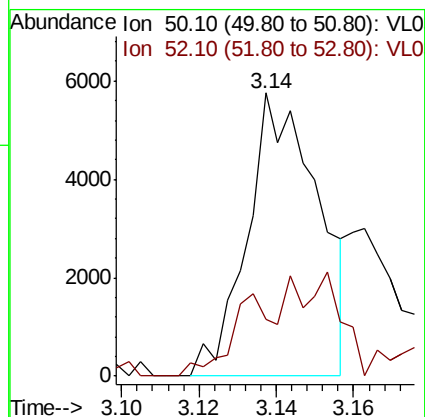
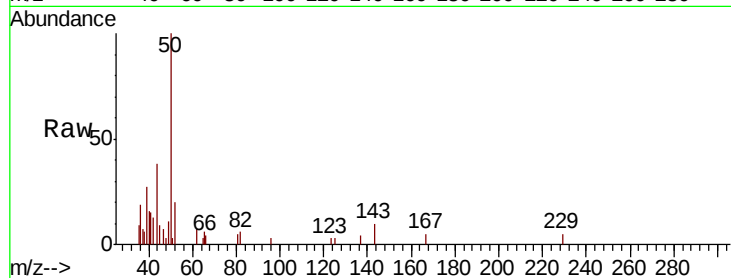
Acq: 20 Apr 2021 21:13

Tot Ion: 50 Resp: 7307

Ion Ratio Lower Upper

50 100

52 15.2 27.0 40.6#



#9

Propene

Concen: 0.113 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036831.D

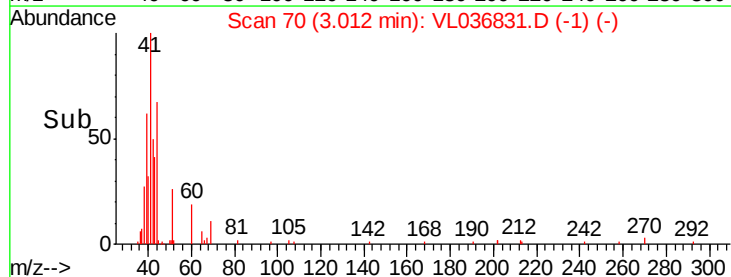
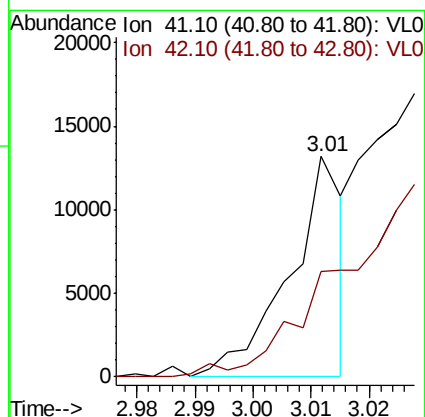
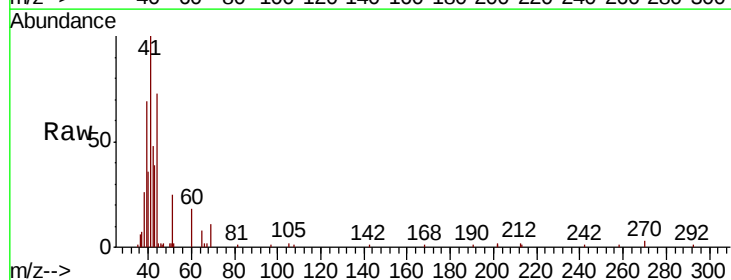
Acq: 20 Apr 2021 21:13

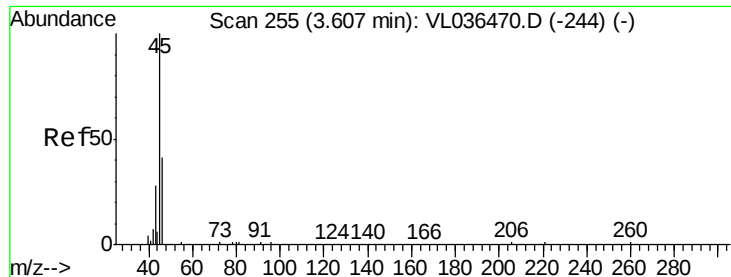
Tgt Ion: 41 Resp: 8458

Ion Ratio Lower Upper

41 100

42 0.0 57.0 85.4#





#13

Ethanol

Concen: 837.688 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

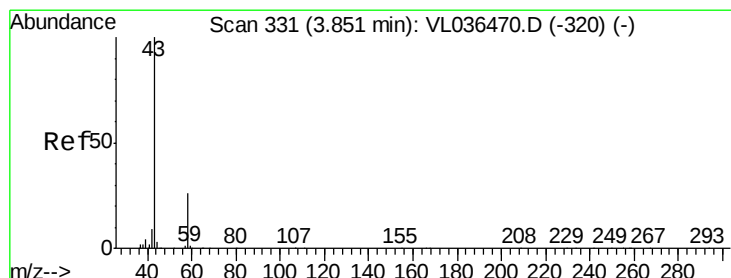
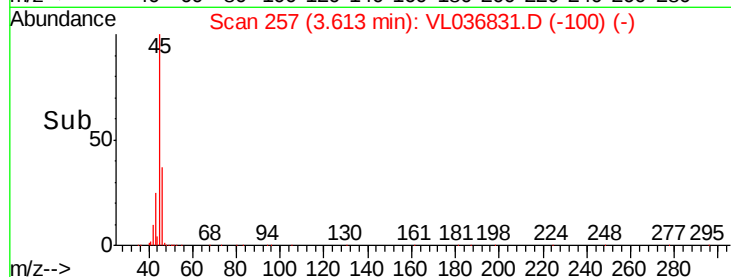
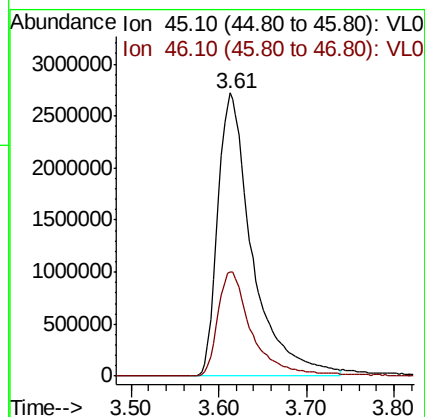
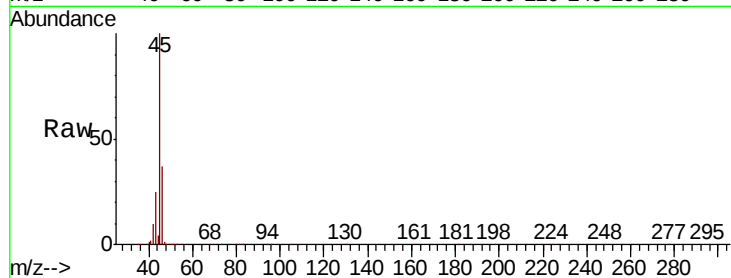
Acq: 20 Apr 2021 21:13

Tot Ion: 45 Resp: 7455683

Ion Ratio Lower Upper

45 100

46 37.2 16.6 66.2



#15

Acetone

Concen: 1.722 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL036831.D

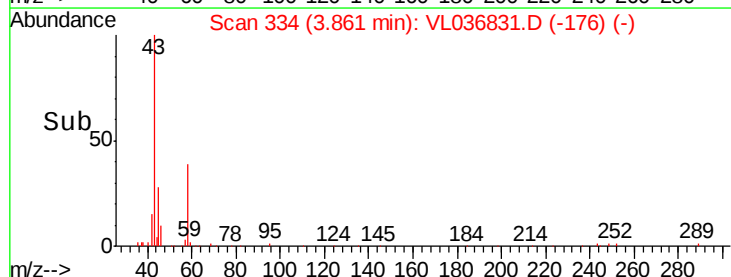
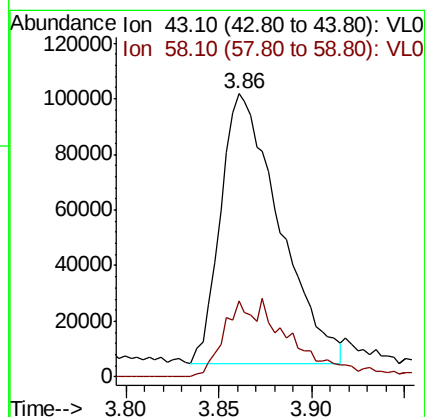
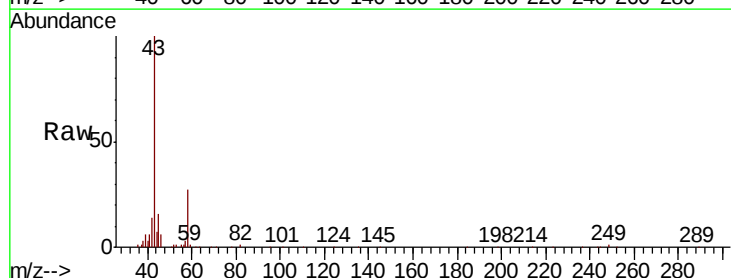
Acq: 20 Apr 2021 21:13

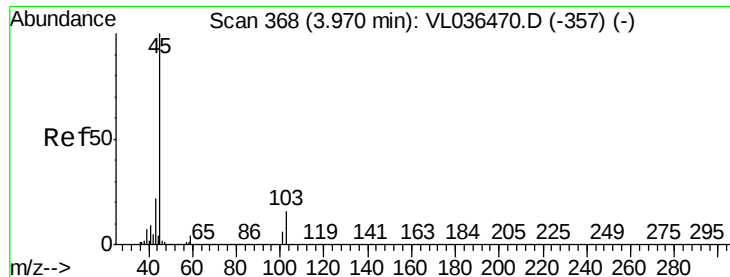
Tgt Ion: 43 Resp: 212635

Ion Ratio Lower Upper

43 100

58 32.4 21.2 31.8#





#19

Isopropyl Alcohol

Concen: 109.742 ppbv

RT: 3.61

Delta R.T. MSVOA_L

Lab File:

ClientSampleId :

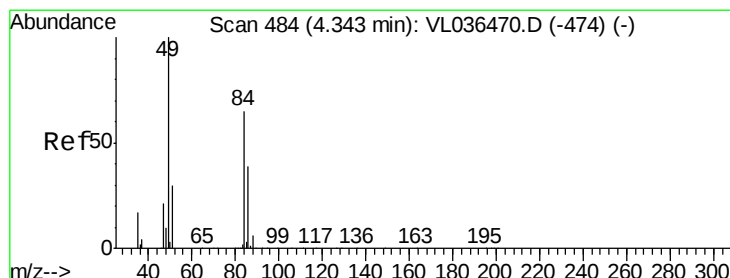
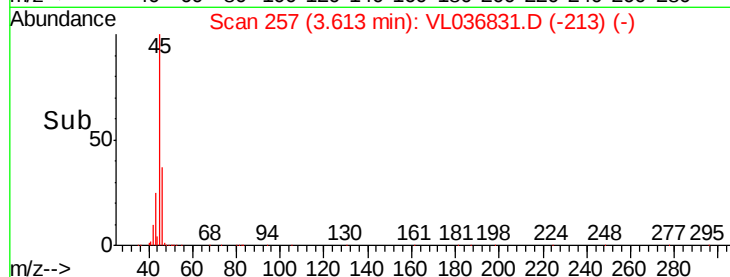
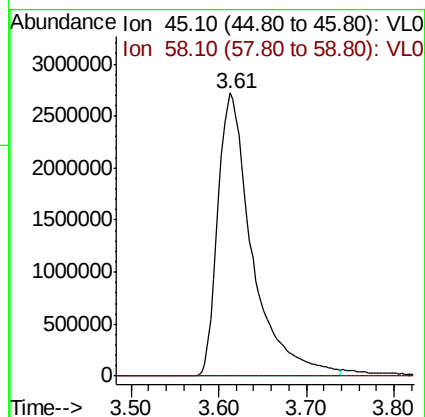
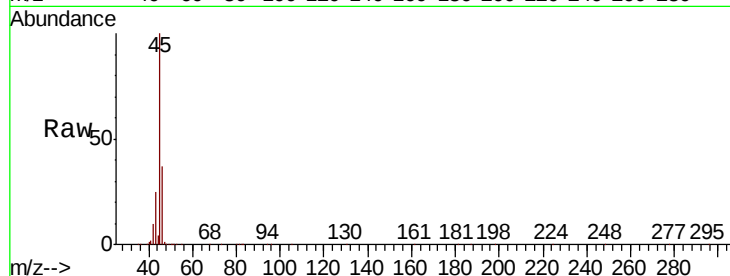
Acq: 20 Apr 2021 21:13

Tot Ion: 45 Resp: 7455683

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 0.922 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036831.D

Acq: 20 Apr 2021 21:13

Tgt Ion: 84 Resp: 53319

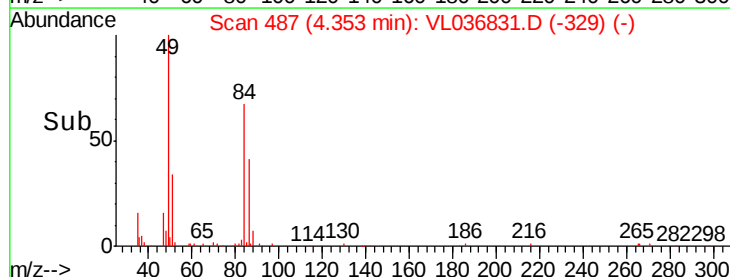
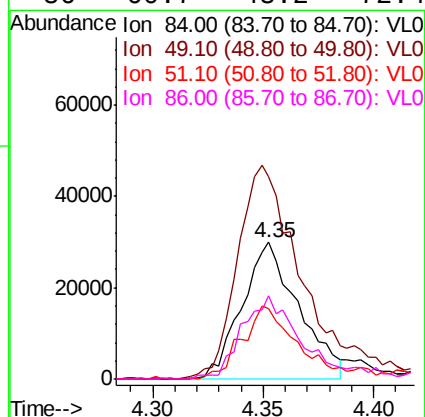
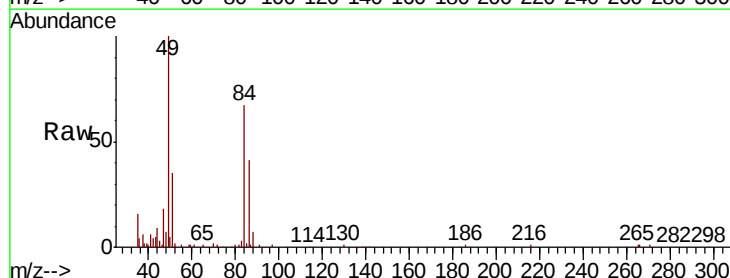
Ion Ratio Lower Upper

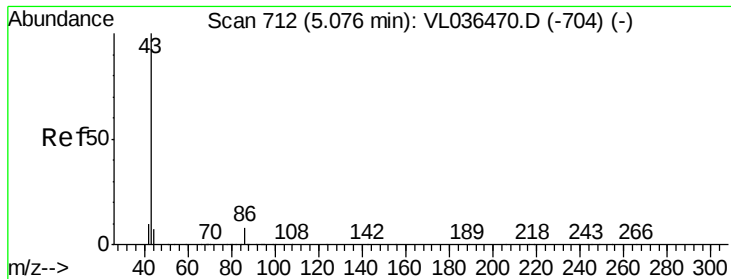
84 100

49 146.0 122.9 184.3

51 50.8 36.9 55.3

86 60.7 48.2 72.4





#23

Vinyl Acetate

Concen: 0.051 ppbv

RT: 5.08 Instrument:

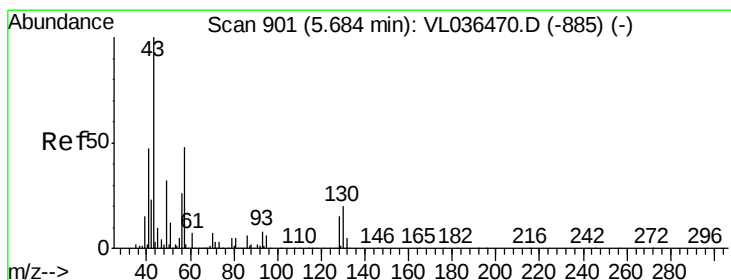
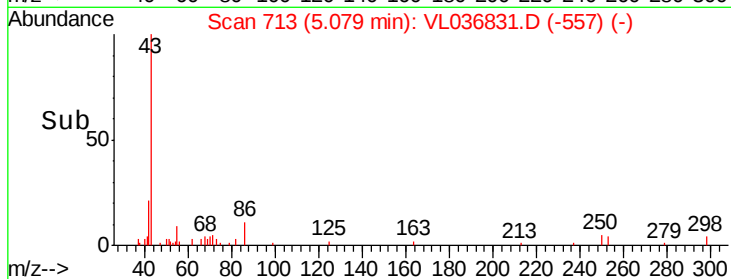
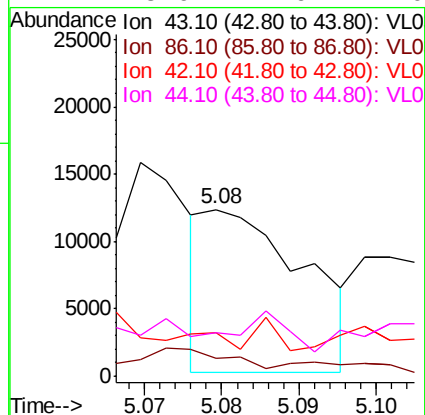
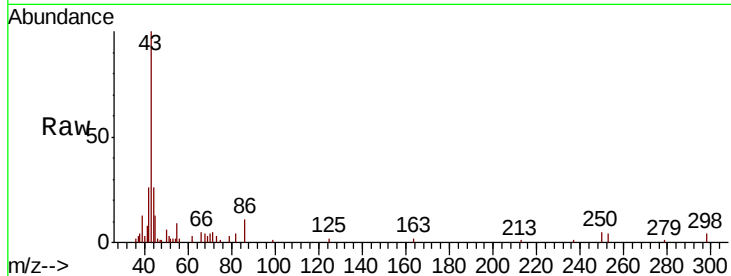
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 21:13

Tot Ion: 43 Resp: 10700

Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.4	8.0
42	2.7	8.5	12.7#
44	5.9	4.6	7.0



#25

Ethyl Acetate

Concen: 0.355 ppbv

RT: 5.69 min Scan# 902

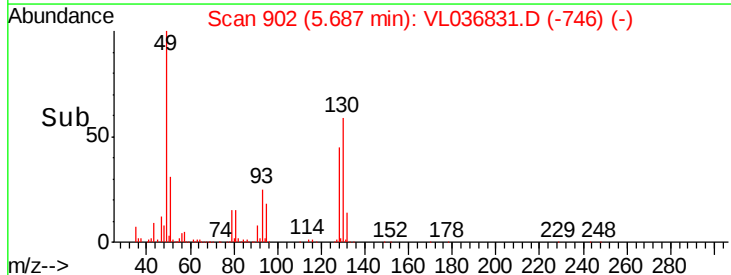
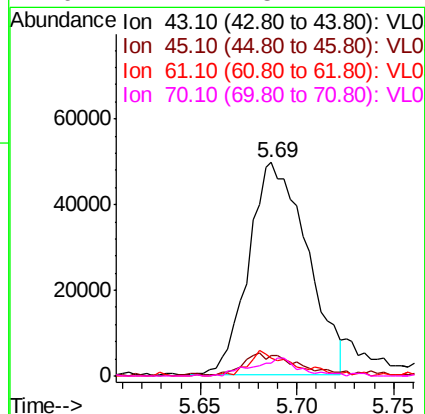
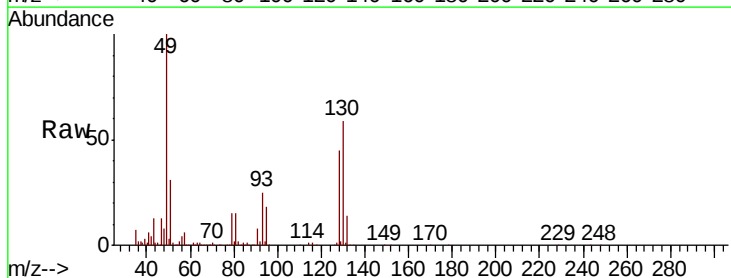
Delta R.T. 0.00 min

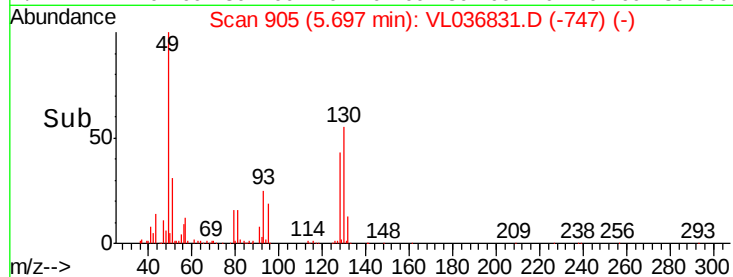
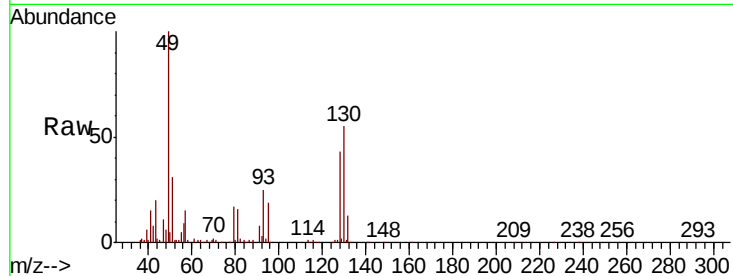
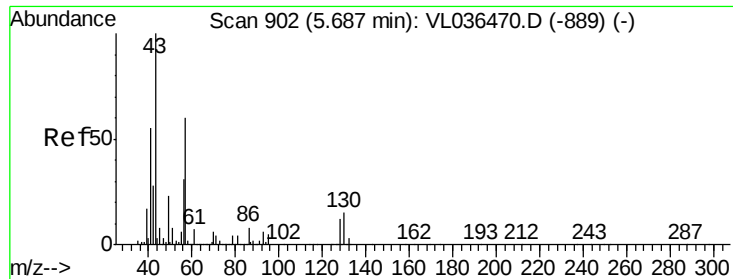
Lab File: VL036831.D

Acq: 20 Apr 2021 21:13

Tgt Ion: 43 Resp: 104271

Ion	Ratio	Lower	Upper
43	100		
45	12.8	7.9	11.9#
61	10.3	7.4	11.2
70	7.1	5.1	7.7





#26

Hexane

Concen: 0.404 ppbv

RT: 5.70 Instrument:

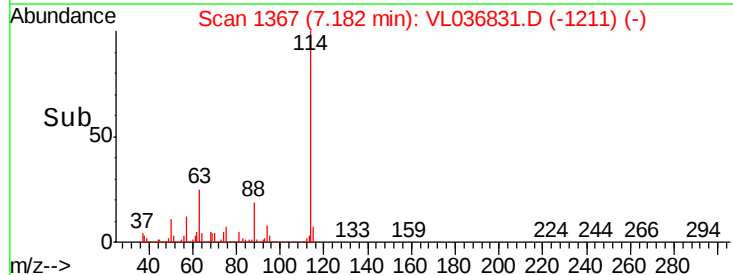
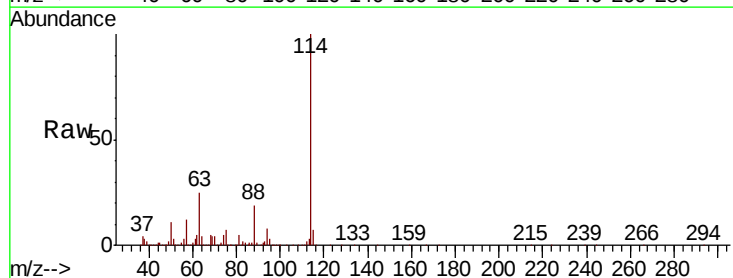
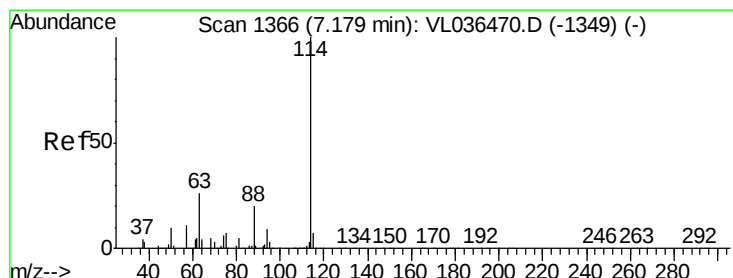
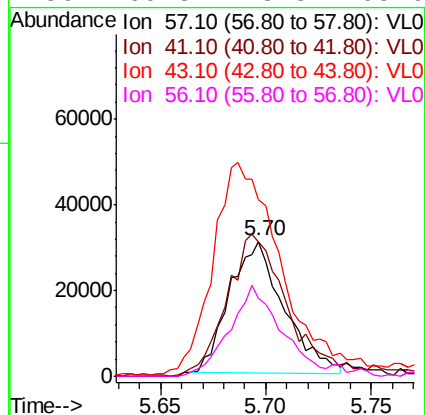
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 21:13

Tot Ion: 57 Resp: 54997

Ion	Ratio	Lower	Upper
57	100		
41	129.0	77.2	115.8#
43	208.1	173.8	260.6
56	69.3	43.8	65.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

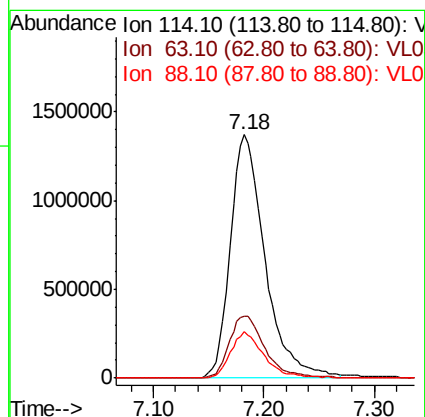
Delta R.T. 0.00 min

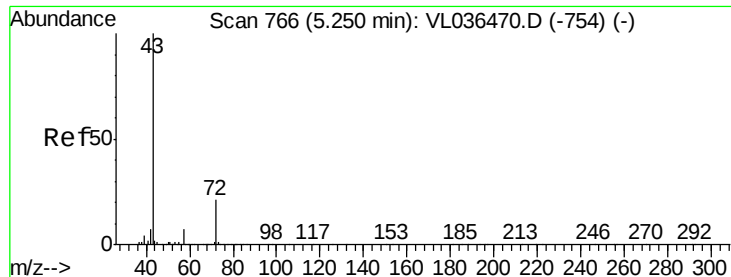
Lab File: VL036831.D

Acq: 20 Apr 2021 21:13

Tgt Ion: 114 Resp: 2990771

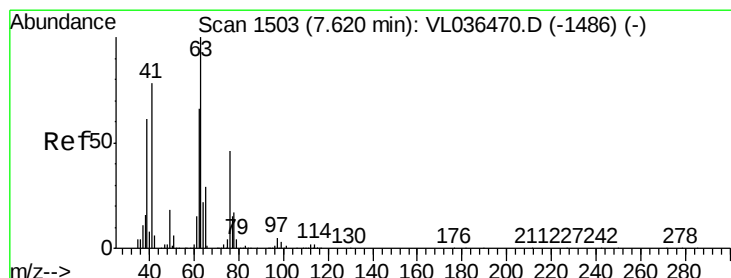
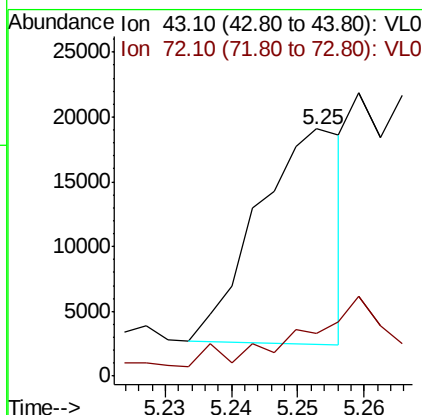
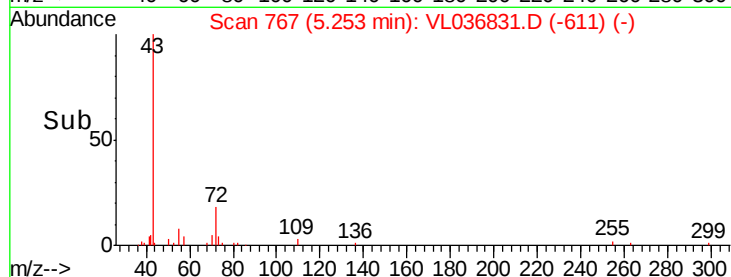
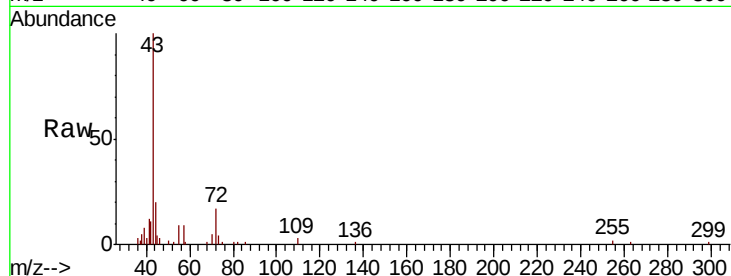
Ion	Ratio	Lower	Upper
114	100		
63	26.7	22.4	33.6
88	18.5	15.4	23.0





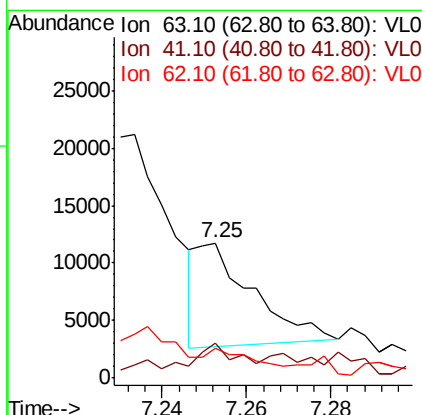
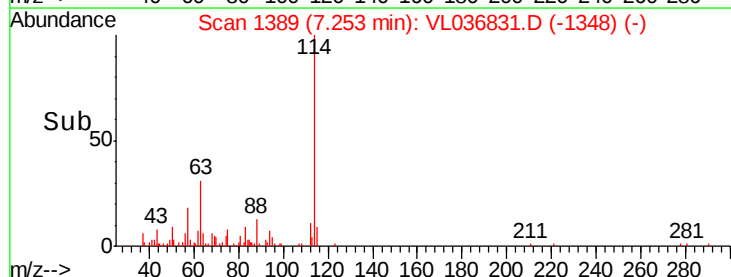
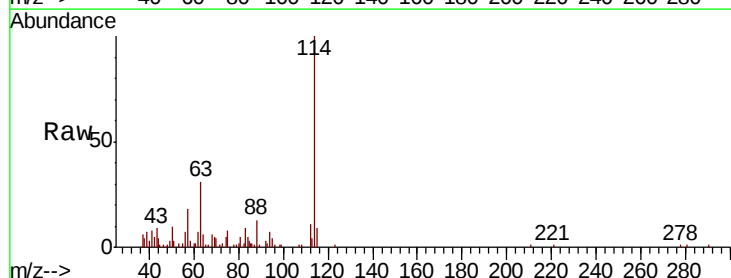
#34
 2-Butanone
 Concen: 0.101 ppbv
 RT: 5.25 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Apr 2021 21:13

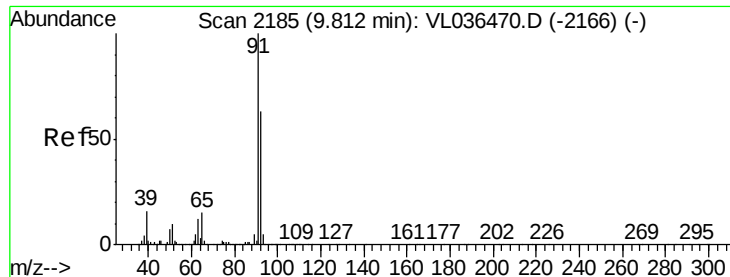
Tot Ion: 43 Resp: 14738
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#



#39
 1,2-Dichloropropane
 Concen: 0.073 ppbv
 RT: 7.25 min Scan# 1389
 Delta R.T. -0.37 min
 Lab File: VL036831.D
 Acq: 20 Apr 2021 21:13

Tgt Ion: 63 Resp: 8186
 Ion Ratio Lower Upper
 63 100
 41 24.5 62.4 93.6#
 62 26.0 52.8 79.2#





#53

Toluene

Concen: 0.039 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

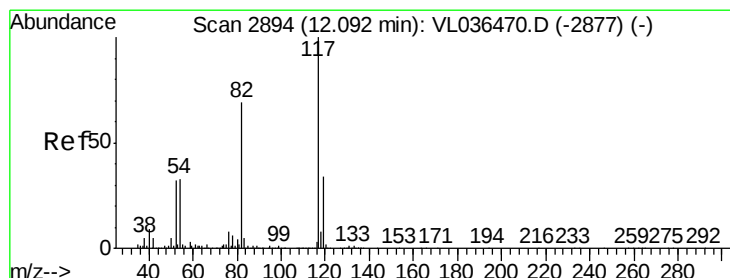
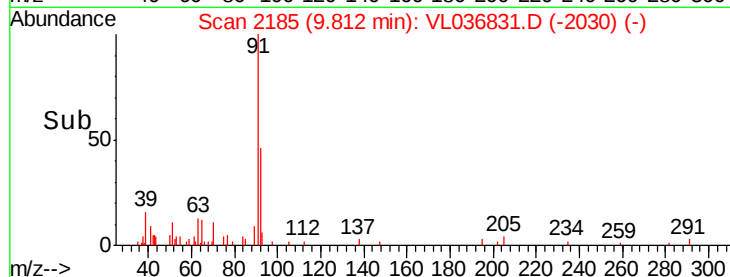
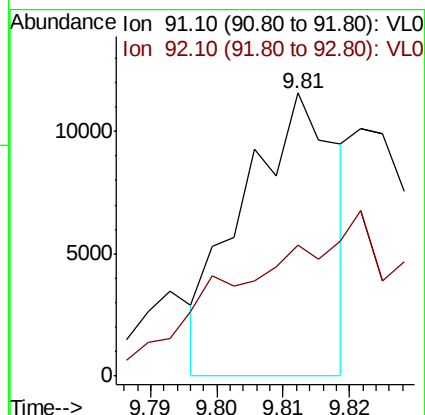
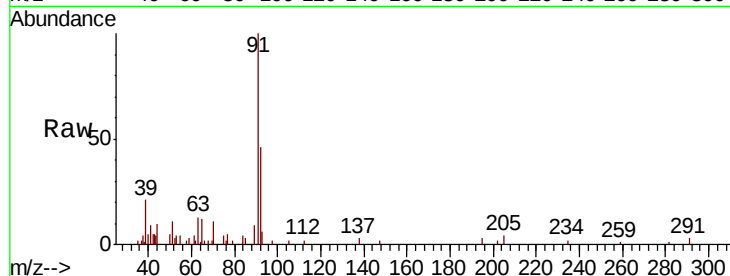
Acq: 20 Apr 2021 21:13

Tot Ion: 91 Resp: 11391

Ion Ratio Lower Upper

91 100

92 0.0 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.01 min

Lab File: VL036831.D

Acq: 20 Apr 2021 21:13

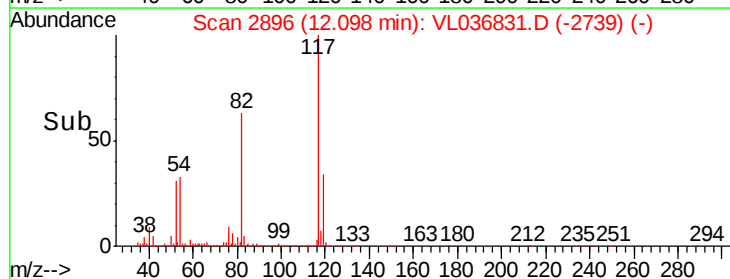
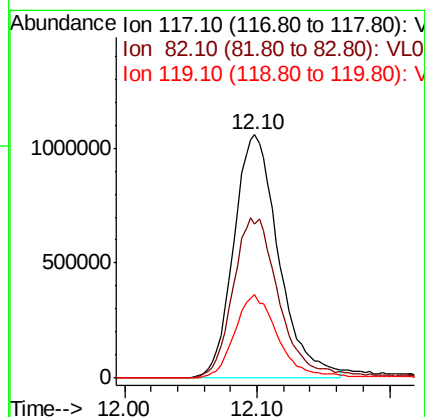
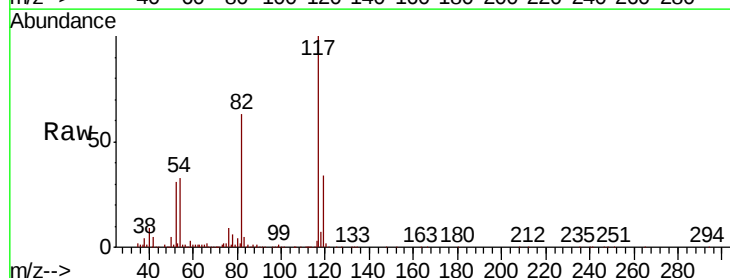
Tgt Ion: 117 Resp: 2484923

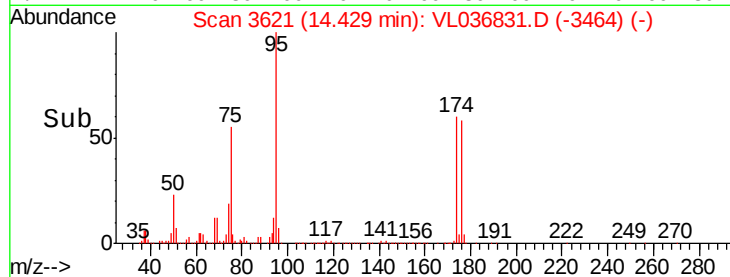
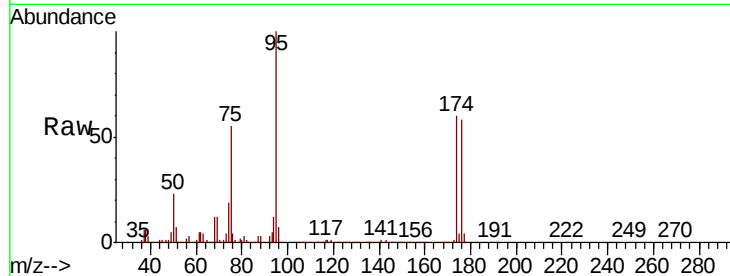
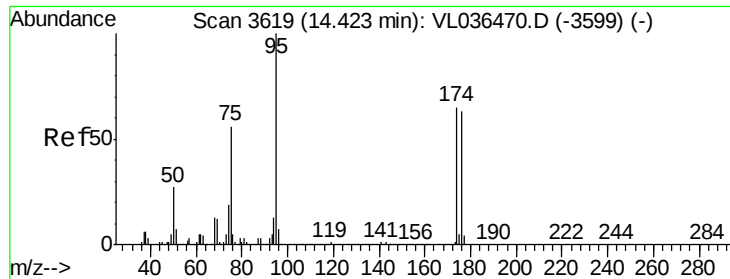
Ion Ratio Lower Upper

117 100

82 70.3 57.4 86.0

119 33.9 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 8.918 ppbv

RT: 14.43

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 21:15

Tot Ion: 95 Resp: 1766212

Ion Ratio Lower Upper

95 100

174 69.3 51.0 76.6

175 5.1 3.9 5.9

