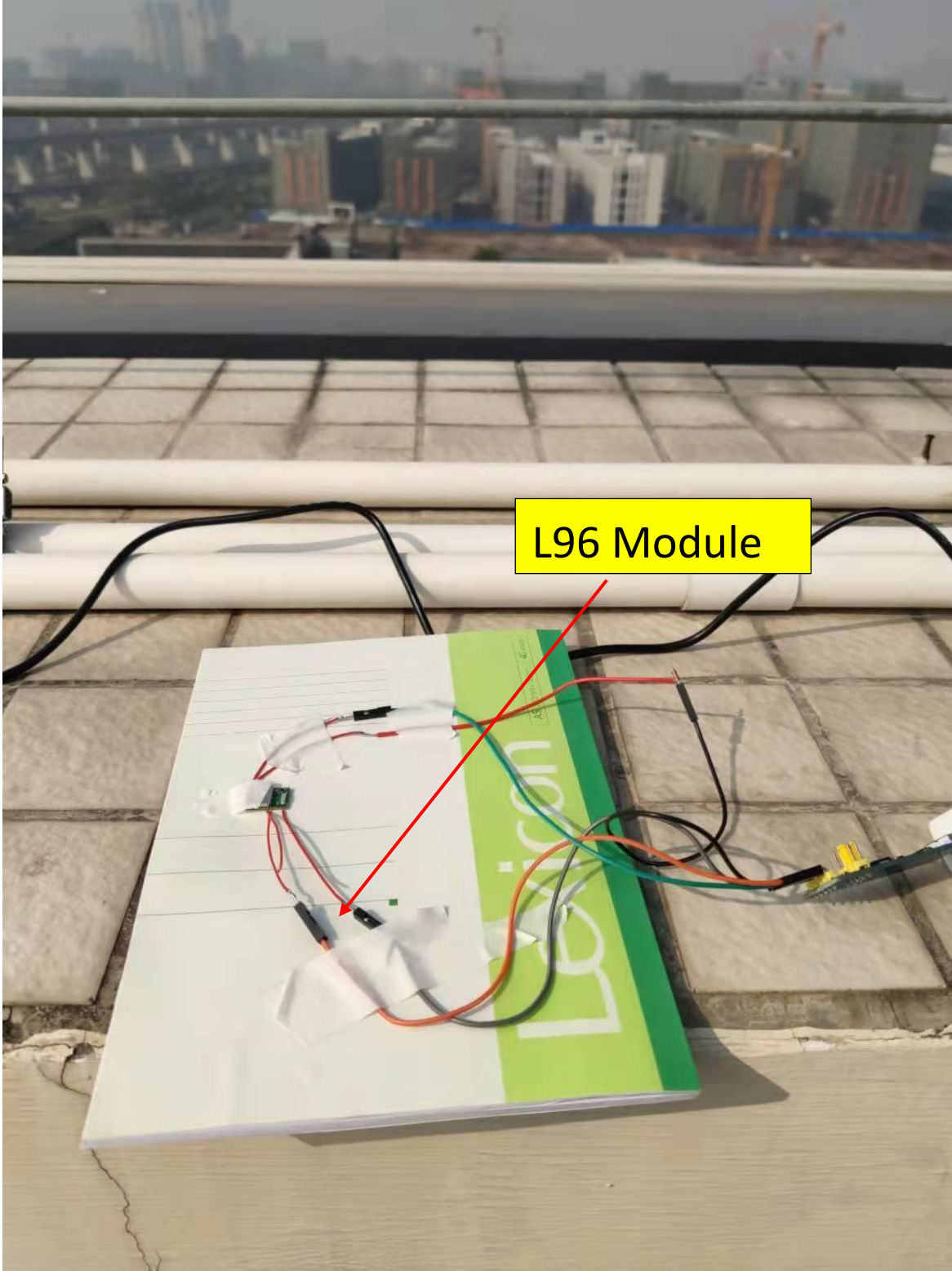


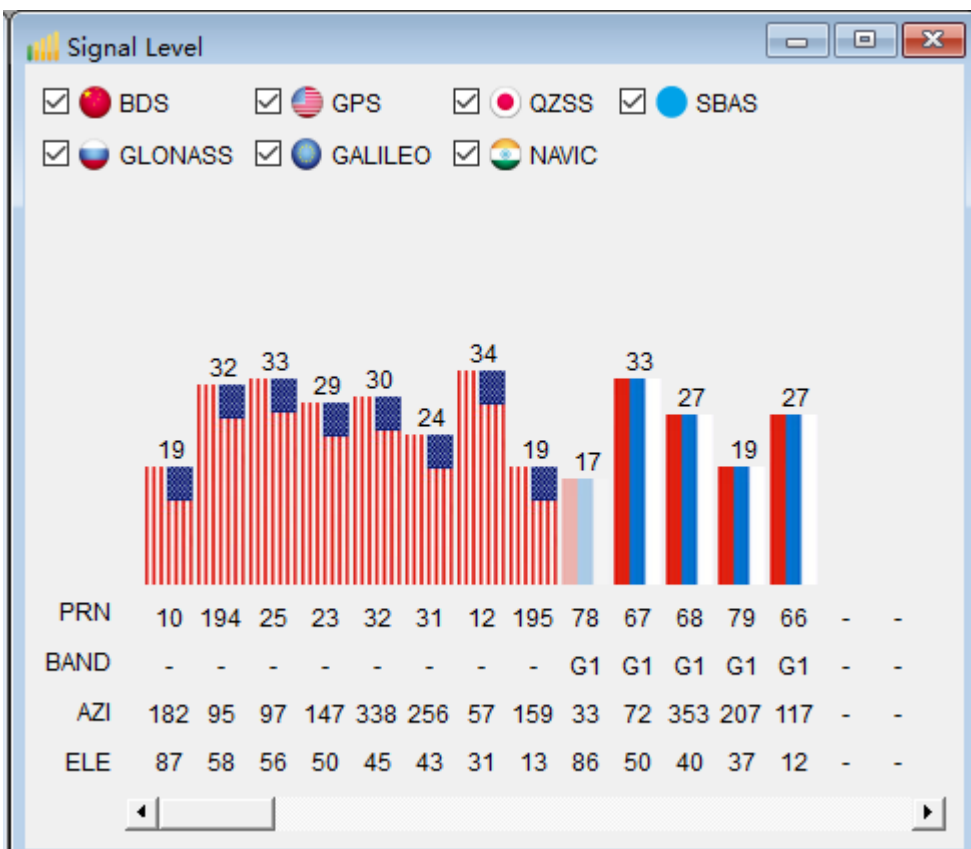
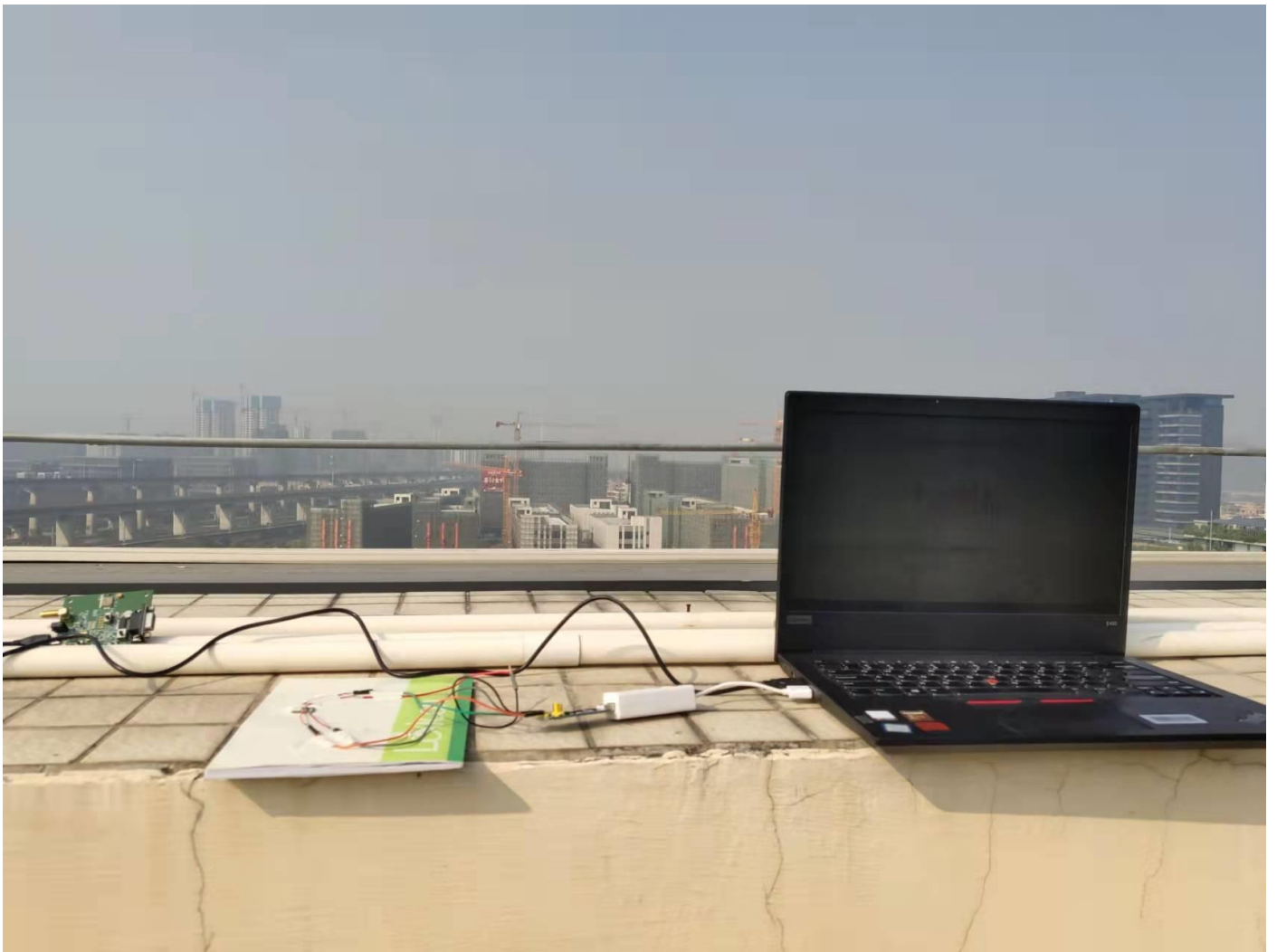
一、

1. The 4 wires of the flying lead include TX, RX, VCC and GND.
2. The test includes laying flat on the ground, lifting a certain height and vertical situation.

二、

1. Lay flat on the ground





Automatic TTFF Testing

Restart Type
 HOT WARM COLD FULL

Number of Tests
 1 10 20 100 1000 10000 Define

Run Stop Result Chart Config Set Reference Point Cold Restart TTFF [3/3]

Ref. Lat	Ref. Lon	Current Lat	Current Lon	2D Error(m)	3D Error(m)	UTC Time	Fix Mode
23.025267	113.241020	23.025343	113.241052	9.1	13.0	03:01:00	3D

INFO	TT1SV	TT3SV	TT4SV	TT3EPH	TT4EPH	TT1GNSS	FF2DAcc	FFVAcc
Current	1.5	4.5	4.5	19.0	19.0	19.0	9.1	9.3
Min	1.5	4.5	4.5	19.0	19.0		1.7	6.8
Mean	2.5	6.1	10.2	22.9	22.9		5.9	9.2
Max	3.5	8.4	13.3	26.9	26.9		9.1	11.6
90%	3.5	8.4	13.3	26.9	26.9		9.1	11.6
95%	3.5	8.4	13.3	26.9	26.9		9.1	11.6
σ (68.27%)	3.5	8.4	13.3	26.9	26.9		9.1	11.6
2 σ (95.45%)	3.5	8.4	13.3	26.9	26.9		9.1	11.6
3 σ (97.73%)	3.5	8.4	13.3	26.9	26.9		9.1	11.6








	2D-10km	2D-600m	2D-100m	3D-100m	2D-50m	3D-50m	Dynamic	TT4GNSS
TTFF	19.0	19.0	19.0	19.0	19.0	19.0	19.0	
Tests	3	3	3	3	3	3	3	
Min	19.0	19.0	19.0	19.0	19.0	19.0	19.0	
Mean	22.9	22.9	22.9	22.9	22.9	22.9	22.9	
Max	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
50%	22.6	22.6	22.6	22.6	22.6	22.6	22.6	
67%	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
90%	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
95%	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
99%	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
99.7%	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
σ (68.27%)	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
2 σ (95.45%)	26.9	26.9	26.9	26.9	26.9	26.9	26.9	
3 σ (97.73%)	26.9	26.9	26.9	26.9	26.9	26.9	26.9	

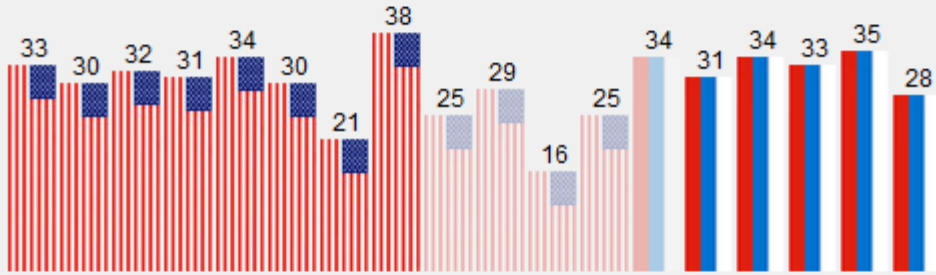
TTFF (Sec)

2、



Signal Level

-  BDS
-  GPS
-  QZSS
-  SBAS
-  GLONASS
-  GALILEO
-  NAVIC



PRN	10	194	25	23	32	31	12	195	26	21	18	45	78	67	68	79	66	69	-	-	-
BAND	-	-	-	-	-	-	-	-	-	-	-	-	G1	G1	G1	G1	G1	G1	-	-	-
AZI	182	95	97	147	338	256	57	159	200	304	176	-	26	74	354	208	117	321	-	-	-
ELE	87	58	56	50	45	43	31	13	11	6	5	-	85	50	41	38	12	2	-	-	-

Automatic TTFF Testing

Restart Type
 HOT WARM COLD FULL

Number of Tests
 1 10 20 100 1000 10000 Define

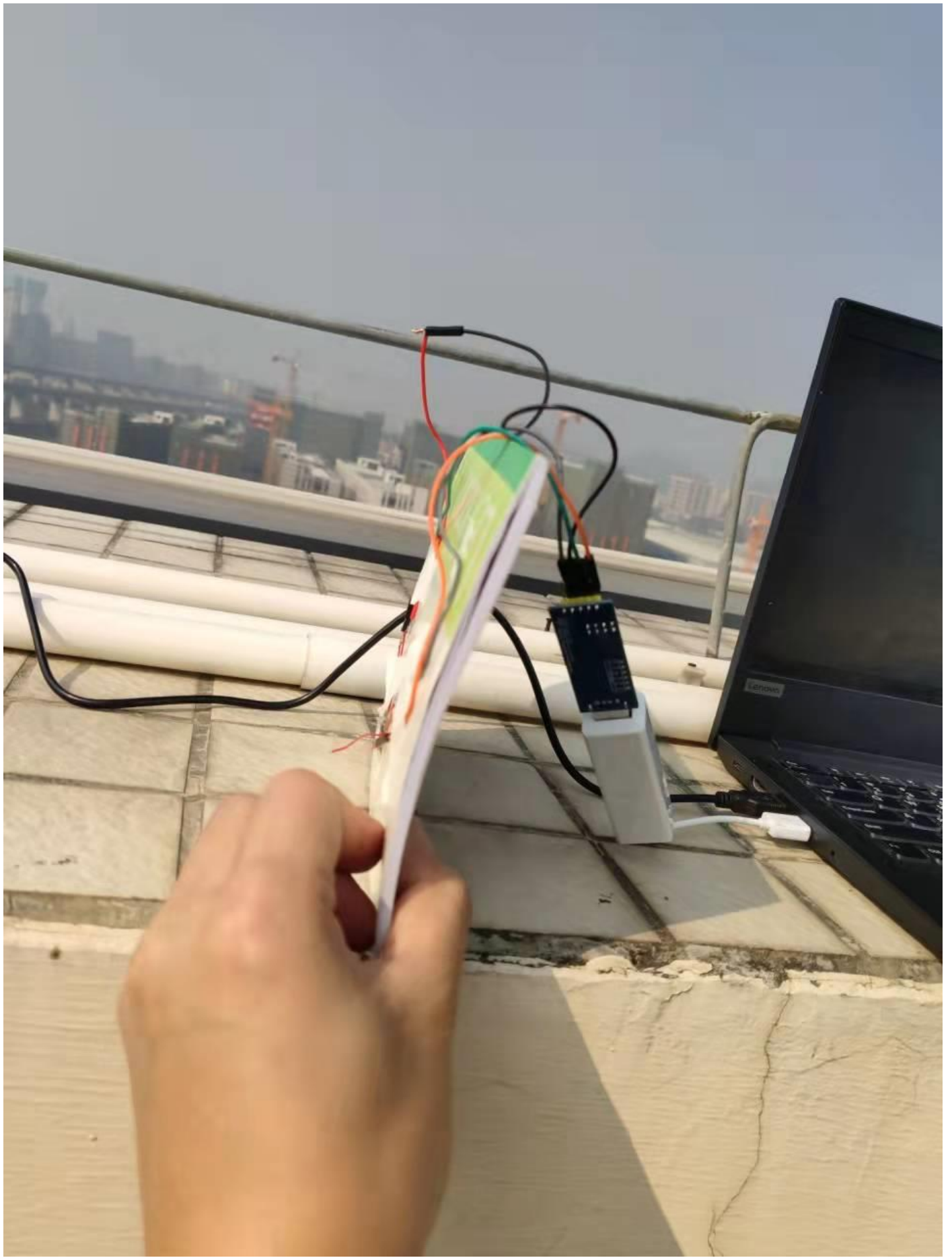
Run Stop Result Chart Config Set Reference Point Cold Restart TTFF [3/3]

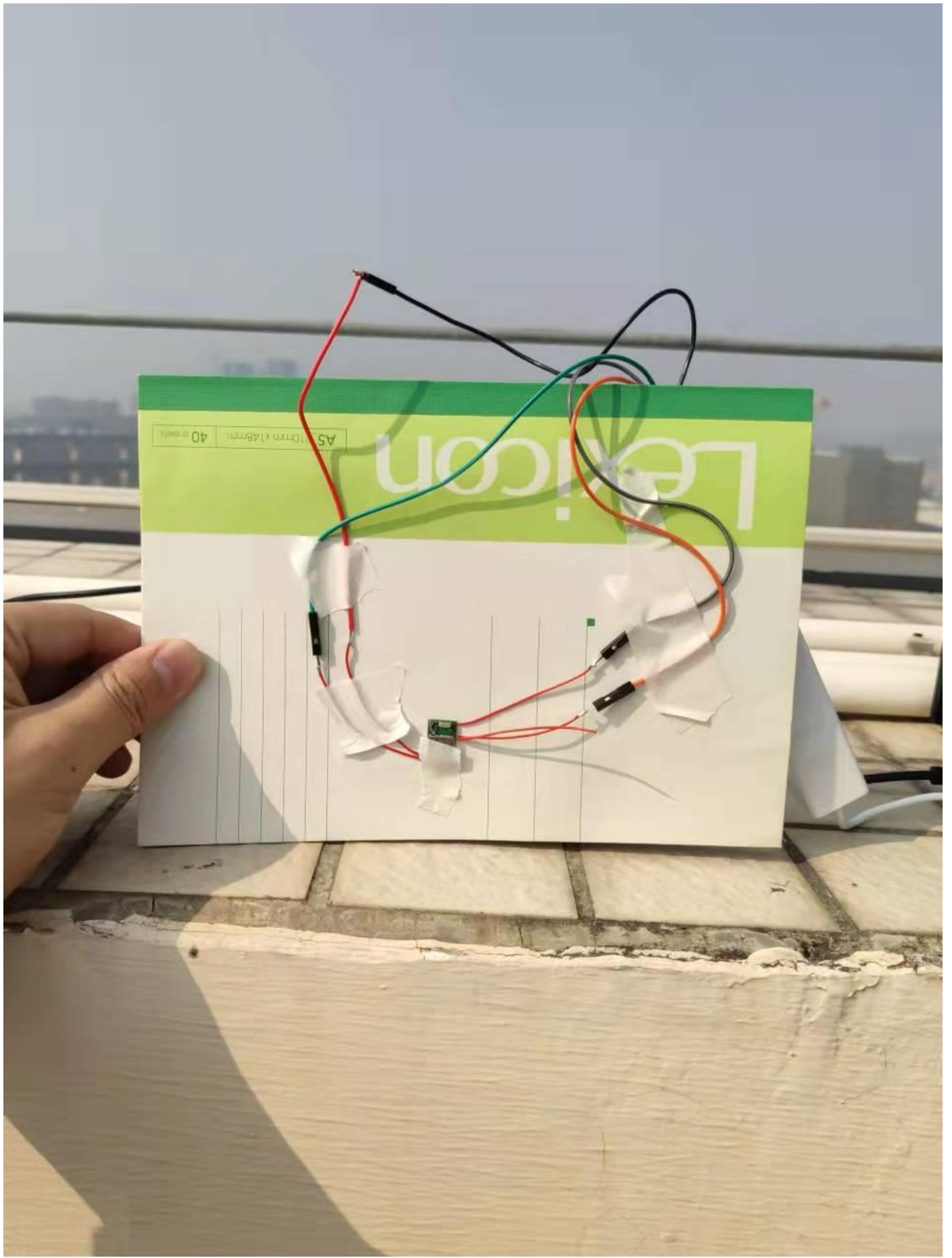
Ref. Lat	Ref. Lon	Current Lat	Current Lon	2D Error(m)	3D Error(m)	UTC Time	Fix Mode
23.025267	113.241020	23.025270	113.240992	2.8	4.6	03:07:15	3D

INFO	TT1SV	TT3SV	TT4SV	TT3EPH	TT4EPH	TT1GNSS	FF2DAcc	FFVAcc
Current	0.4	3.5	3.5	14.8	14.8	14.8	2.8	3.7
Min	0.4	3.4	3.4	14.8	14.8		2.8	3.1
Mean	0.5	3.4	3.4	16.8	16.8		4.1	4.4
Max	0.6	3.5	3.5	19.5	19.5		5.0	6.3
90%	0.6	3.5	3.5	19.5	19.5		5.0	6.3
95%	0.6	3.5	3.5	19.5	19.5		5.0	6.3
σ (68.27%)	0.6	3.5	3.5	19.5	19.5		5.0	6.3
2σ (95.45%)	0.6	3.5	3.5	19.5	19.5		5.0	6.3
3σ (97.73%)	0.6	3.5	3.5	19.5	19.5		5.0	6.3








	2D-10km	2D-600m	2D-100m	3D-100m	2D-50m	3D-50m	Dynamic	TT4GNSS
TTFF	14.8	14.8	14.8	14.8	14.8	14.8	14.8	
Tests	3	3	3	3	3	3	3	
Min	14.8	14.8	14.8	14.8	14.8	14.8	14.8	
Mean	16.8	16.8	16.8	16.8	16.8	16.8	16.8	
Max	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
50%	16.2	16.2	16.2	16.2	16.2	16.2	16.2	
67%	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
90%	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
95%	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
99%	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
99.7%	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
σ (68.27%)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
2σ (95.45%)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	
3σ (97.73%)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	

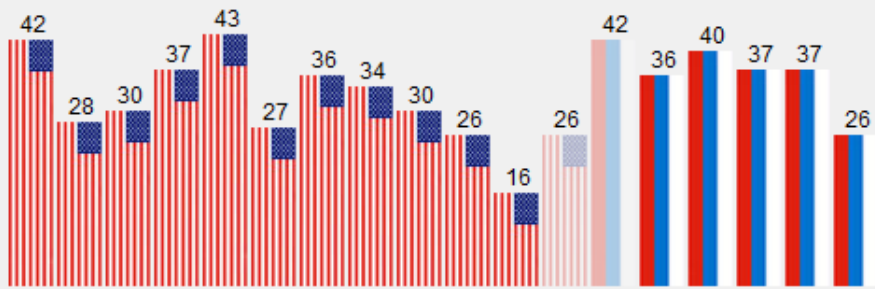
3、





Signal Level

-  BDS
-  GPS
-  QZSS
-  SBAS
-  GLONASS
-  GALILEO
-  NAVIC



PRN	10	194	25	23	32	31	12	195	26	21	18	45	78	67	68	79	66	69	-	-	-	-	-	-	-	-	-
BAND	-	-	-	-	-	-	-	-	-	-	-	-	G1	G1	G1	G1	G1	G1	-	-	-	-	-	-	-	-	-
AZI	177	94	95	148	339	257	55	159	200	303	175	-	22	76	354	209	118	322	-	-	-	-	-	-	-	-	-
ELE	85	59	56	49	45	44	30	13	11	6	4	-	83	50	42	39	11	3	-	-	-	-	-	-	-	-	-

Automatic TTFF Testing

Restart Type
 HOT WARM COLD FULL

Number of Tests
 1 10 20 100 1000 10000 Define

Run Stop Result Chart Config Set Reference Point Cold Restart TTFF [3/3]

Ref. Lat	Ref. Lon	Current Lat	Current Lon	2D Error(m)	3D Error(m)	UTC Time	Fix Mode
23.025267	113.241020	23.025253	113.240977	4.6	9.3	03:11:39	3D

INFO	TT1SV	TT3SV	TT4SV	TT3EPH	TT4EPH	TT1GNSS	FF2DAcc	FFVAcc
Current	0.5	0.5	1.4	11.3	11.3	11.3	4.6	8.1
Min	0.4	0.5	1.4	11.3	11.3		1.3	7.5
Mean	0.5	1.8	2.4	12.8	12.8		5.5	11.1
Max	0.5	2.6	3.4	13.8	13.8		10.7	17.7
90%	0.5	2.6	3.4	13.8	13.8		10.7	17.7
95%	0.5	2.6	3.4	13.8	13.8		10.7	17.7
σ (68.27%)	0.5	2.6	3.4	13.8	13.8		10.7	17.7
2σ (95.45%)	0.5	2.6	3.4	13.8	13.8		10.7	17.7
3σ (97.73%)	0.5	2.6	3.4	13.8	13.8		10.7	17.7

	2D-10km	2D-600m	2D-100m	3D-100m	2D-50m	3D-50m	Dynamic	TT4GNSS
TTFF	11.3	11.3	11.3	11.3	11.3	11.3	11.3	
Tests	3	3	3	3	3	3	3	
Min	11.3	11.3	11.3	11.3	11.3	11.3	11.3	
Mean	12.8	12.8	12.8	12.8	12.8	12.8	12.8	
Max	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
50%	13.2	13.2	13.2	13.2	13.2	13.2	13.2	
67%	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
90%	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
95%	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
99%	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
99.7%	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
σ (68.27%)	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
2σ (95.45%)	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
3σ (97.73%)	13.8	13.8	13.8	13.8	13.8	13.8	13.8	

Summary: If the antenna is too close to the ground, the signal will be absorbed. You can try a vertical test.