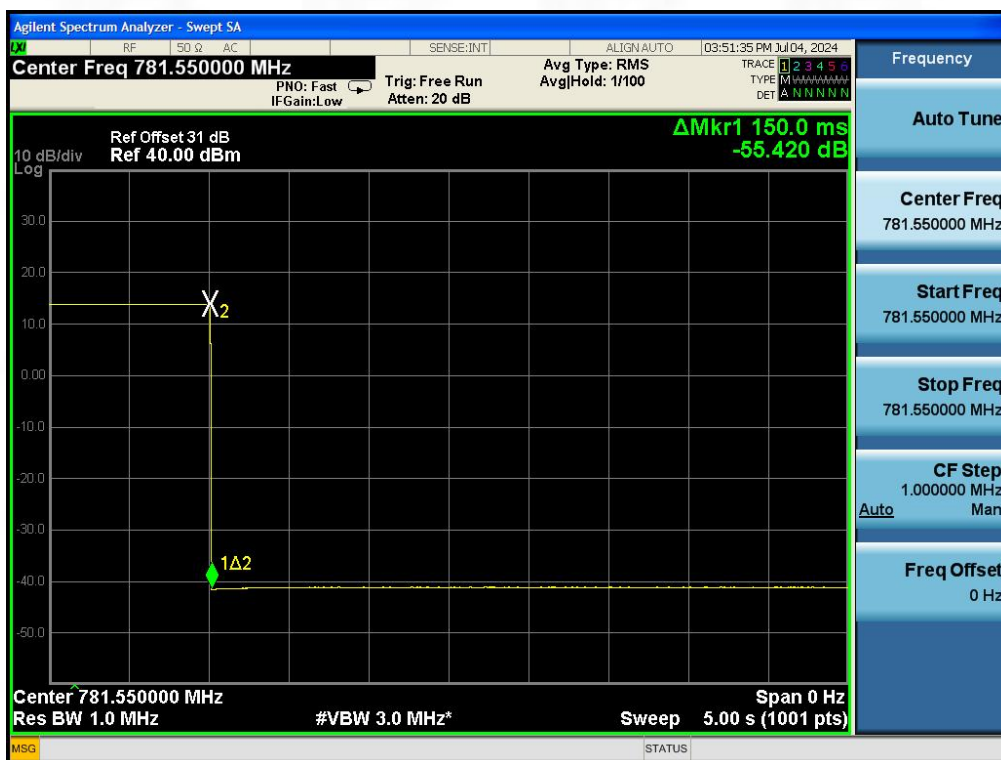


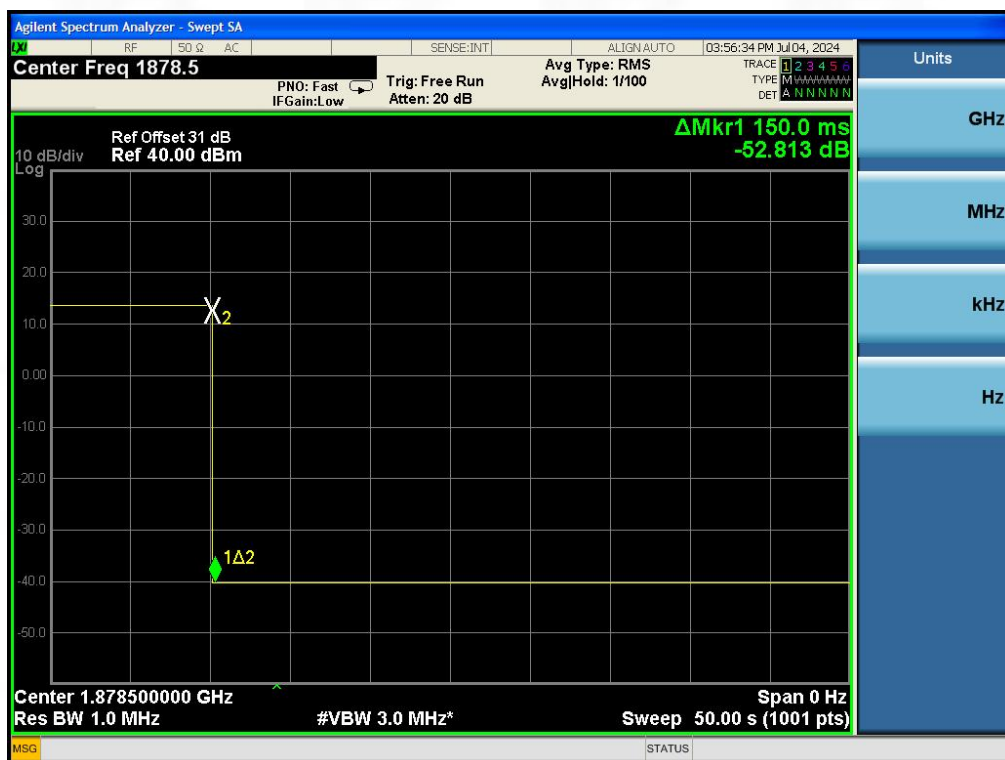
700 MHz Upper C Block UL



700 MHz Upper C Block DL



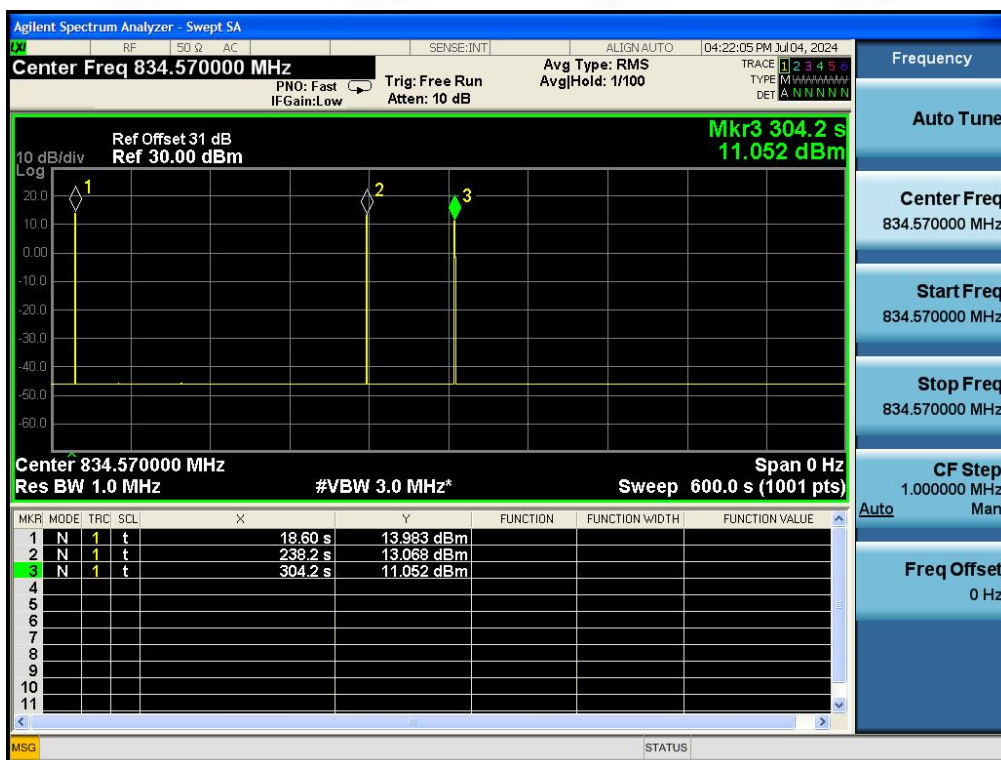
Broadband PCS UL



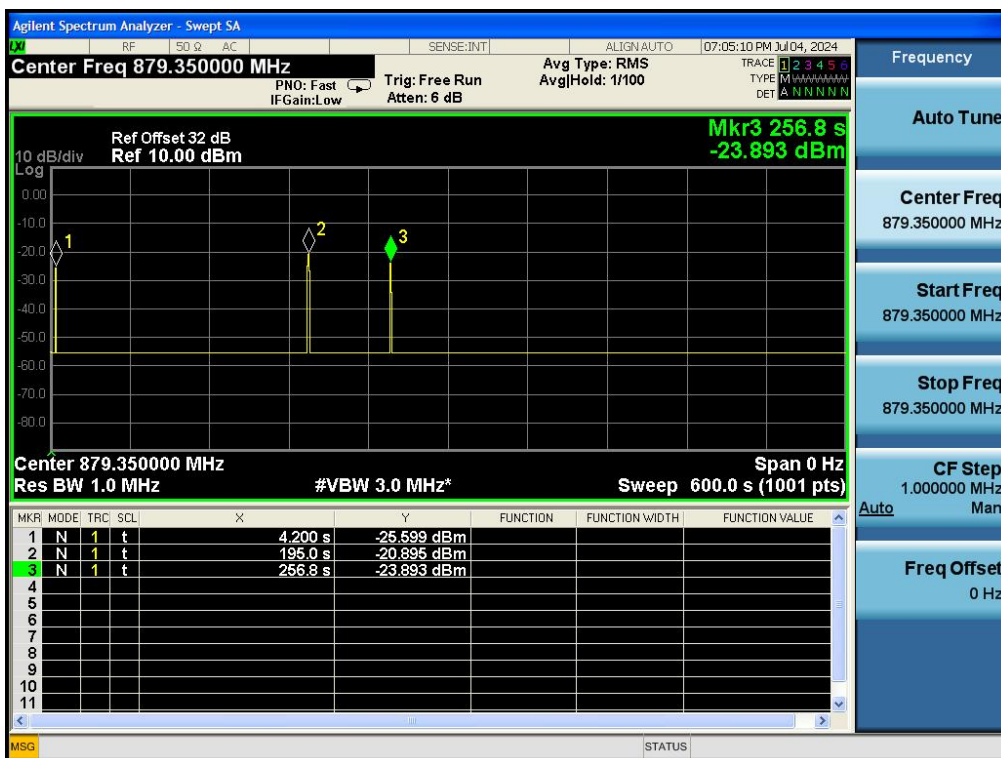
Broadband PCS DL



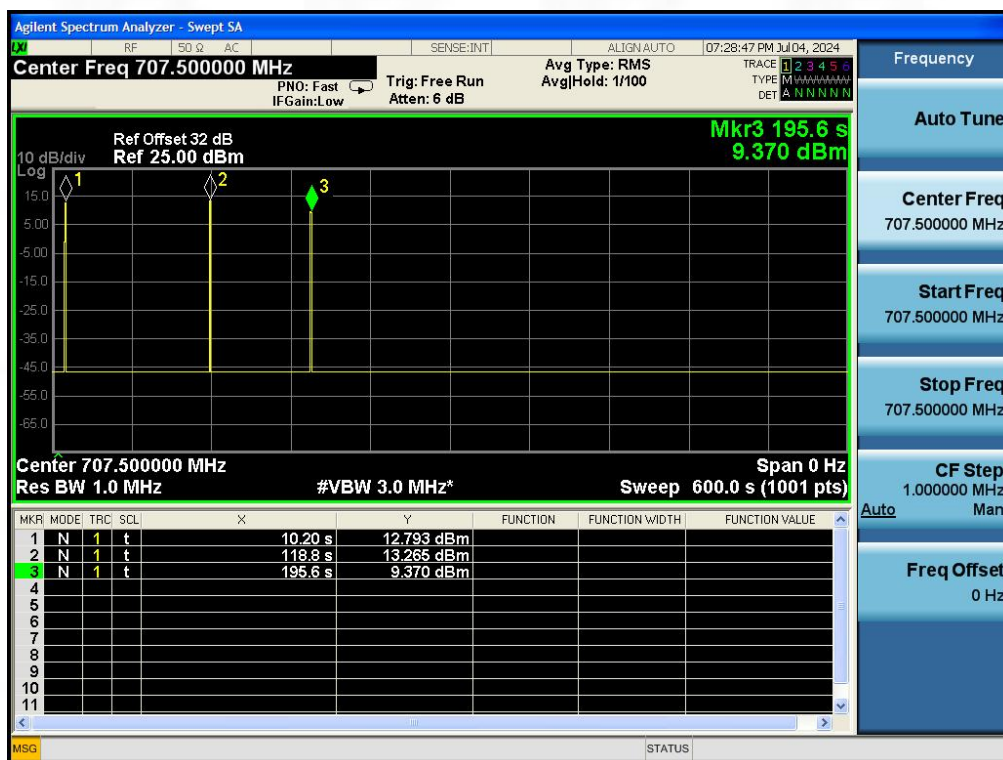
Test Test Plots of restarting time
Cellula UL



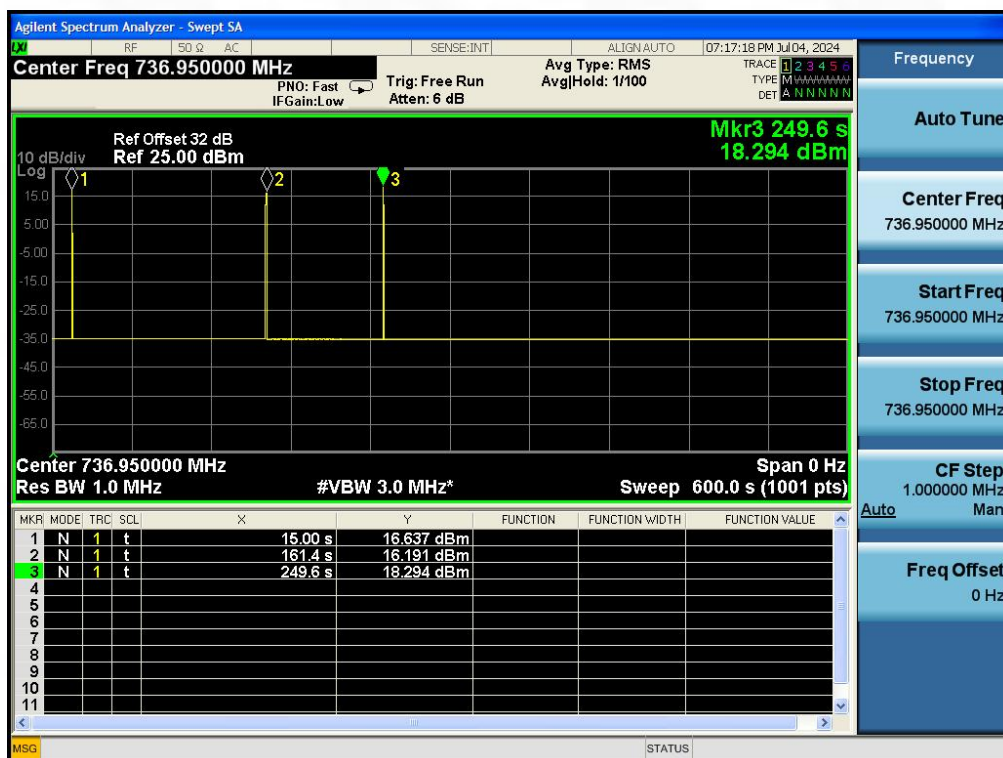
Cellula DL



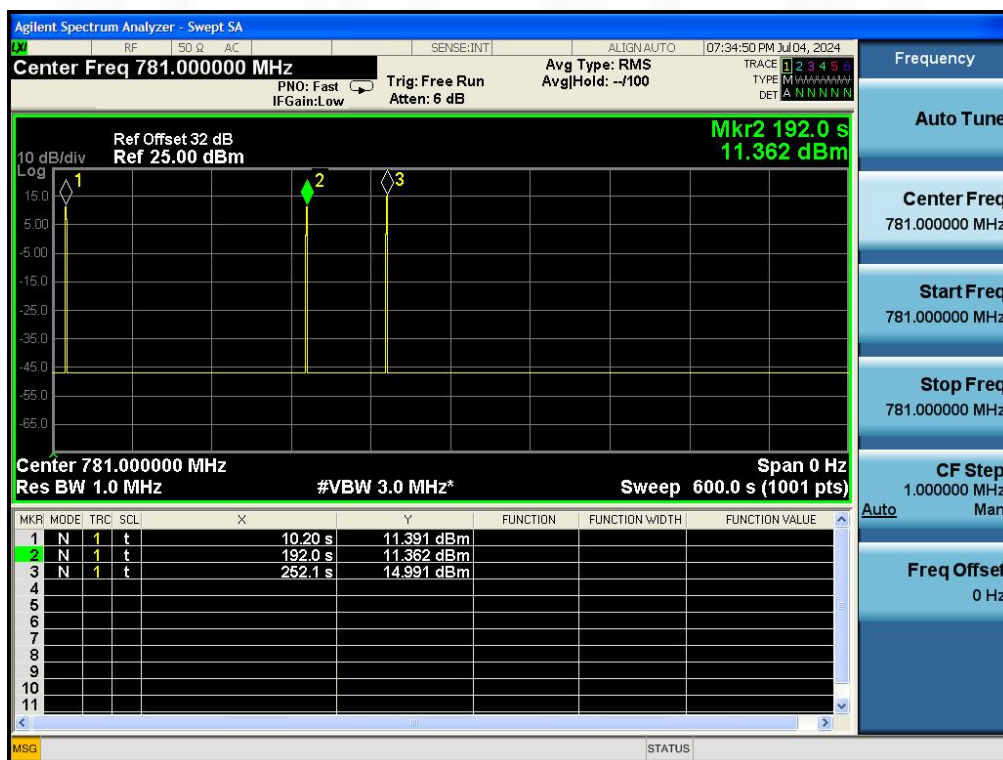
Lower A-E Blocks UL



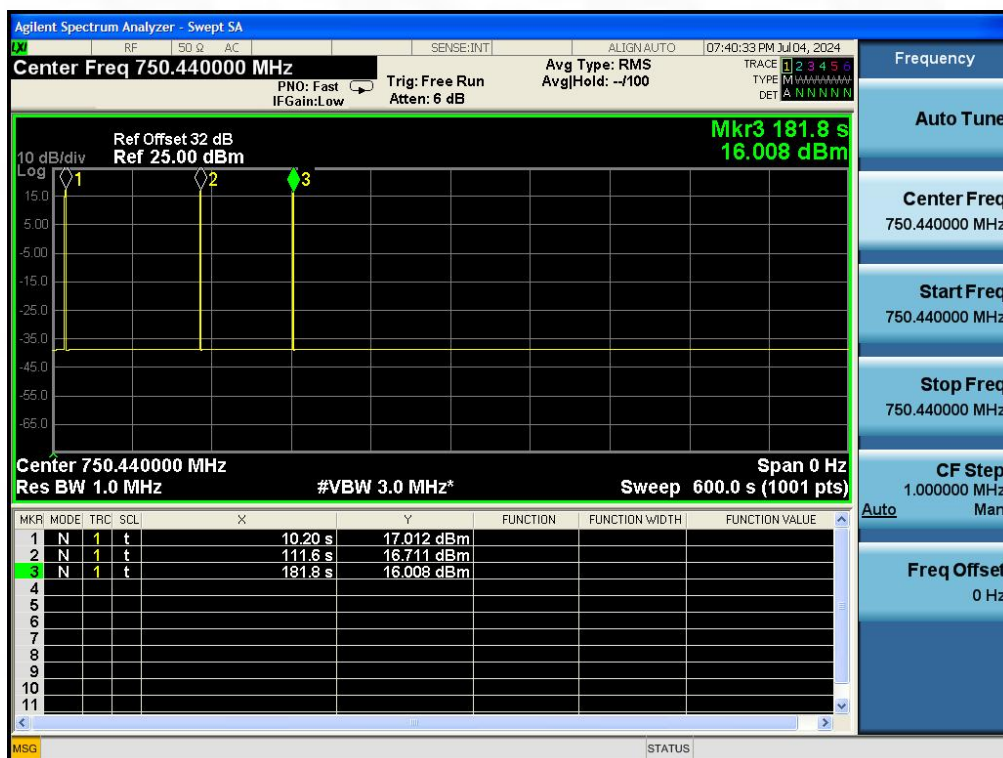
Lower A-E Blocks DL



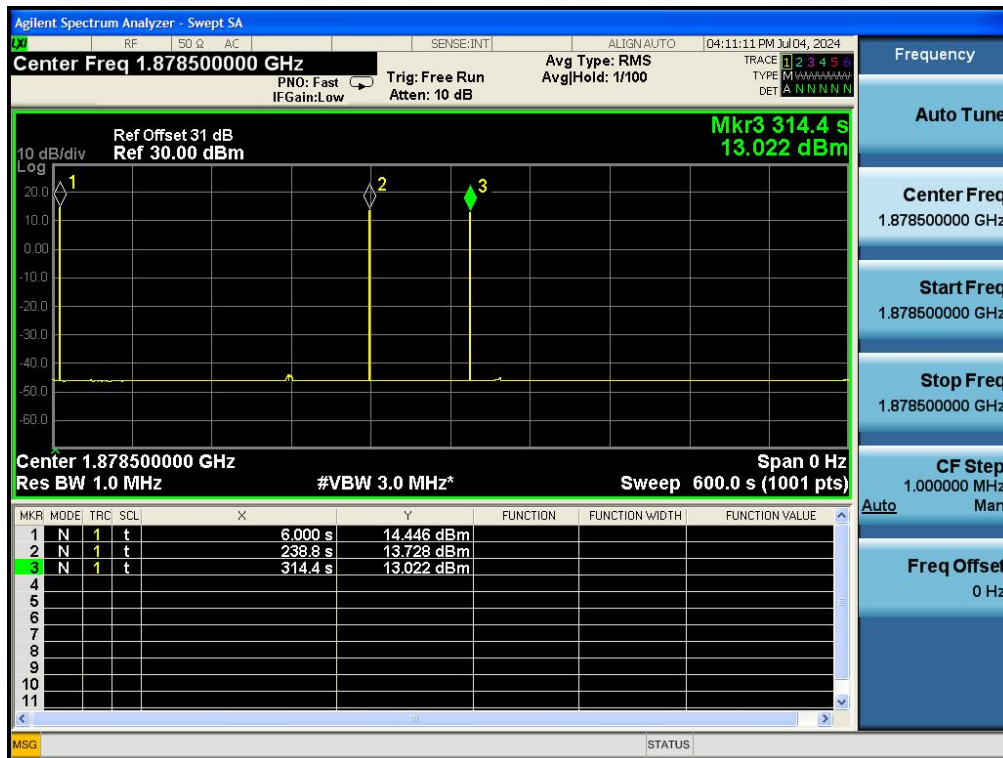
700 MHz Upper C Block UL



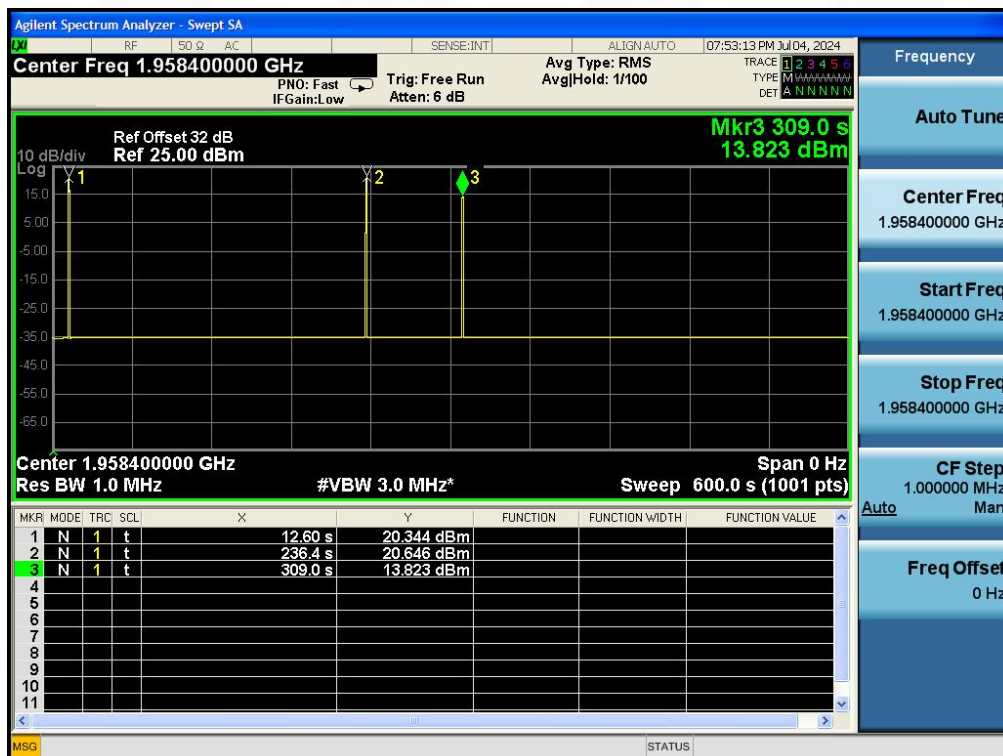
700 MHz Upper C Block DL



Broadband PCS Block UL



Broadband PCS Block DL



Test results of Mitigation or Shutdown:

Cellula	Uplink(824-849MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	824.3	-58.38	848.5	-67.20	8.82	<12	PASS
+4	824.3	-59.30	848.5	-68.35	9.05	<12	PASS
+3	824.3	-60.19	848.5	-69.34	9.15	<12	PASS
+2	824.3	-61.38	848.5	-70.28	8.90	<12	PASS
+1	824.3	-62.14	848.5	-71.46	9.32	<12	PASS
+0	824.3	-63.33	848.5	-72.19	8.86	<12	PASS
-1	824.3	-64.25	848.5	-72.97	8.72	<12	PASS
-2	824.3	-65.03	848.5	-73.02	7.99	<12	PASS
-3	/	/	/	/	/	<12	/
-4	/	/	/	/	/	<12	/
-5	/	/	/	/	/	<12	/

Cellula	Downlink(869-894MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	870.5	-58.70	893.7	-66.30	7.60	<12	PASS
+4	870.5	-59.14	893.7	-66.97	7.83	<12	PASS
+3	870.5	-60.13	893.7	-68.03	7.90	<12	PASS
+2	870.5	-61.00	893.7	-69.49	8.49	<12	PASS
+1	870.5	-61.20	893.7	-70.72	9.52	<12	PASS
+0	870.5	-62.10	893.7	-71.40	9.30	<12	PASS
-1	870.5	-63.43	893.7	-72.97	9.54	<12	PASS
-2	/	/	/	/	/	<12	/
-3	/	/	/	/	/	<12	/
-4	/	/	/	/	/	<12	/
-5	/	/	/	/	/	<12	/

Lower A-E Blocks	Uplink(699-716MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	707.6	-59.08	714.3	-68.46	9.38	<12	PASS
+4	707.6	-60.44	714.3	-69.29	8.85	<12	PASS
+3	707.6	-62.40	714.3	-70.61	8.21	<12	PASS
+2	707.6	-63.91	714.3	-71.41	7.50	<12	PASS
+1	707.6	-64.01	714.3	-71.69	7.68	<12	PASS
+0	707.6	-64.30	714.3	-72.08	7.78	<12	PASS
-1	707.6	-64.79	714.3	-73.14	8.35	<12	PASS
-2	707.6	-65.44	714.3	-73.19	7.75	<12	PASS
-3	/	/	/	/	/	<12	/
-4	/	/	/	/	/	<12	/
-5	/	/	/	/	/	<12	/

Lower A-E Blocks	Downlink(729-746MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	731.5	-60.28	743.8	-65.82	5.54	<12	PASS
+4	731.5	-61.63	743.8	-66.11	4.48	<12	PASS
+3	731.5	-62.21	743.8	-67.44	5.23	<12	PASS
+2	731.5	-63.50	743.8	-67.79	4.29	<12	PASS
+1	731.5	-63.24	743.8	-68.61	5.37	<12	PASS
+0	731.5	-64.89	743.8	-69.52	4.63	<12	PASS
-1	731.5	-65.19	743.8	-71.83	6.64	<12	PASS
-2	731.5	-65.81	743.8	-71.88	6.07	<12	PASS
-3	/	/	/	/	/	<12	/
-4	/	/	/	/	/	<12	/
-5	/	/	/	/	/	<12	/

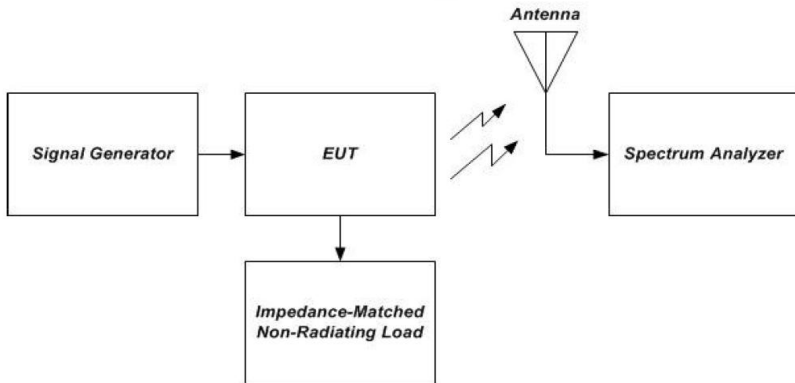
700 MHz Upper C Block	Uplink(777-787MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	778.6	-59.39	785.8	-68.27	8.88	<12	PASS
+4	778.6	-61.57	785.8	-68.95	7.38	<12	PASS
+3	778.6	-62.21	785.8	-70.17	7.96	<12	PASS
+2	778.6	-63.67	785.8	-72.35	8.68	<12	PASS
+1	778.6	-63.54	785.8	-71.94	8.40	<12	PASS
+0	778.6	-63.31	785.8	-72.22	8.91	<12	PASS
-1	778.6	-65.03	785.8	-73.17	8.14	<12	PASS
-2	778.6	-65.35	785.8	-73.22	7.87	<12	PASS
-3	/	/	/	/	/	<12	/
-4	/	/	/	/	/	<12	/
-5	/	/	/	/	/	<12	/

700 MHz Upper C Block	Downlink(746-756MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	746.3	-60.38	754.8	-66.08	5.70	<12	PASS
+4	746.3	-62.14	754.8	-67.23	5.09	<12	PASS
+3	746.3	-62.34	754.8	-68.37	6.03	<12	PASS
+2	746.3	-63.31	754.8	-67.36	4.05	<12	PASS
+1	746.3	-62.09	754.8	-69.09	7.00	<12	PASS
+0	746.3	-64.32	754.8	-69.37	5.05	<12	PASS
-1	746.3	-64.24	754.8	-71.49	7.25	<12	PASS
-2	746.3	-65.30	754.8	-71.54	6.24	<12	PASS
-3	/	/	/	/	/	<12	PASS
-4	/	/	/	/	/	<12	PASS
-5	/	/	/	/	/	<12	PASS

Broadband PCS	Uplink(1850-1907MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	1851.4	-59.42	1906.2	-68.22	8.80	<12	PASS
+4	1851.4	-61.56	1906.2	-68.89	7.33	<12	PASS
+3	1851.4	-62.17	1906.2	-70.13	7.96	<12	PASS
+2	1851.4	-63.70	1906.2	-72.42	8.72	<12	PASS
+1	1851.4	-63.50	1906.2	-72.02	8.52	<12	PASS
+0	1851.4	-63.36	1906.2	-72.27	8.91	<12	PASS
-1	1851.4	-65.01	1906.2	-73.18	8.17	<12	PASS
-2	1851.4	-65.37	1906.2	-73.23	7.86	<12	PASS
-3	/	/	/	/	/	<12	/
-4	/	/	/	/	/	<12	/
-5	/	/	/	/	/	<12	/

Broadband PCS	Downlink(1930-1987MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	1931.8	-60.41	1985.9	-66.03	5.62	<12	PASS
+4	1931.8	-62.13	1985.9	-67.17	5.04	<12	PASS
+3	1931.8	-62.30	1985.9	-68.33	6.03	<12	PASS
+2	1931.8	-63.34	1985.9	-67.43	4.09	<12	PASS
+1	1931.8	-62.05	1985.9	-69.17	7.12	<12	PASS
+0	1931.8	-64.37	1985.9	-69.42	5.05	<12	PASS
-1	1931.8	-64.22	1985.9	-71.50	7.28	<12	PASS
-2	1931.8	-65.32	1985.9	-71.55	6.23	<12	PASS
-3	/	/	/	/	/	<12	PASS
-4	/	/	/	/	/	<12	PASS
-5	/	/	/	/	/	<12	PASS

5.12 Radiated Spurious Emissions

Test Requirement:	This procedure is intended to satisfy the requirements specified in §2.1053. The applicable limits are those specified for mobile emissions in the rule part applicable to the band of operation (see Annex A).
Test setup:	 Figure 10 – Radiated spurious emissions test and instrumentation setup
Procedure:	- Place the EUT on an OATS or Anechoic chamber turntable 3m from the receiving antenna. - Connect the EUT to the test equipment as shown in Figure 9 beginning with the uplink output - Set the signal generator for the center frequency of the operational band under test with the power level set at PIN from section 7.2 with CW signal. - Measure the radiated spurious emissions from the EUT from lowest to the highest frequencies as specified in §2.1057. Maximize the radiated emissions by utilizing the procedures described in C63.4. - Capture the peak emissions plots using a peak detector with max-Hold for inclusion in the test report. Tabular data is acceptable in lieu of spectrum analyzer plots. - Repeat steps 7.12.3 to 7.12.5 for all operational bands.

5.12.1 E.U.T. Operation:

Operating Environment:	
Temperature:	–30 °C and +50
Humidity:	46.3 %
Atmospheric Pressure:	1010 mbar

5.12.2 Test Data:

Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
Cellula Uplink				
953.13	V	-44.62	-13.00	-31.62
953.13	H	-44.86		-31.86
3894.81	V	-44.41		-31.41
3894.81	H	-41.42		-28.42
-	-	-	-	-
Cellula Downlink				
957.63	V	-51.59	-13.00	-38.59
957.63	H	-53.86		-40.86
3978.67	V	-53.24		-40.24
3978.67	H	-52.23		-39.23
-	-	-	-	-

Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
Lower A-E Blocks Uplink				
886.47	V	-46.96	-13.00	-33.96
886.47	H	-46.78		-33.78
3375.61	V	-45.37		-32.37
3375.61	H	-42.49		-29.49
-	-	-	-	-
Lower A-E Blocks Downlink				
863.75	V	-52.90	-13.00	-39.90
863.75	H	-52.99		-39.99
4136.58	V	-51.77		-38.77
4136.58	H	-50.16		-37.16
-	-	-	-	-

Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
700 MHz Upper C Block Uplink				
854.75	V	-46.21	-13.00	-33.21
854.75	H	-47.20		-34.20
1675.25	V	-46.38		-33.38
1675.25	H	-43.27		-30.27
-	-	-	-	-
700 MHz Upper C Block Downlink				
893.64	V	-53.27	-13.00	-40.27
893.64	H	-53.37		-40.37
1754.25	V	-51.97		-38.97
1754.25	H	-50.25		-37.25
-	-	-	-	-

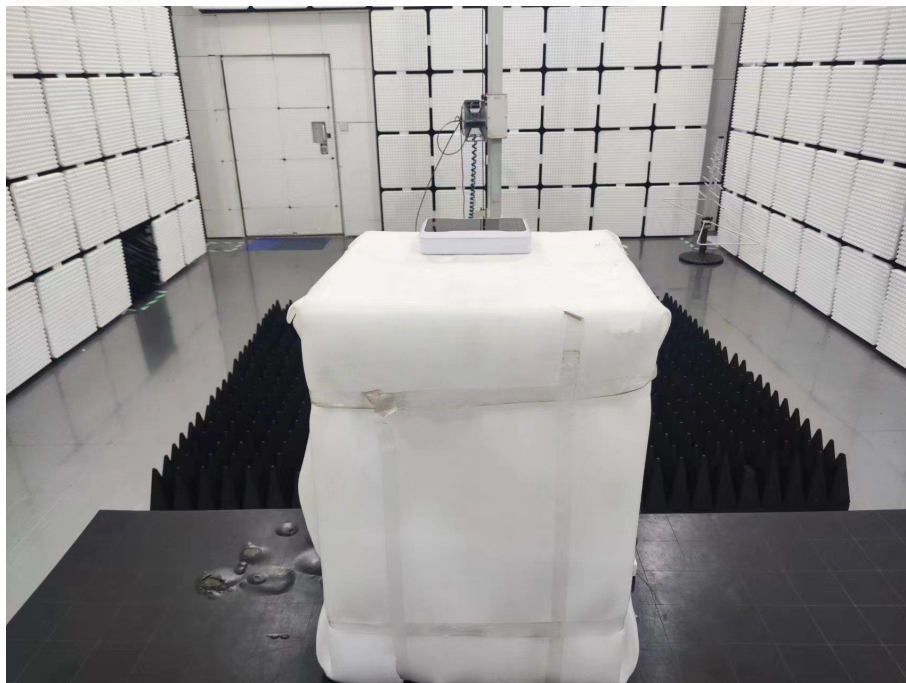
Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
Broadband PCS				
890.14	V	-46.21	-13.00	-33.21
890.14	H	-47.20		-34.20
1856.84	V	-46.38		-33.38
1856.84	H	-43.27		-30.27
-	-	-	-	-
Broadband PCS				
928.61	V	-53.27	-13.00	-40.27
928.61	H	-53.37		-40.37
1893.56	V	-51.97		-38.97
1893.56	H	-50.25		-37.25
-	-	-	-	-

6 Test Setup Photos

Below 1GHz



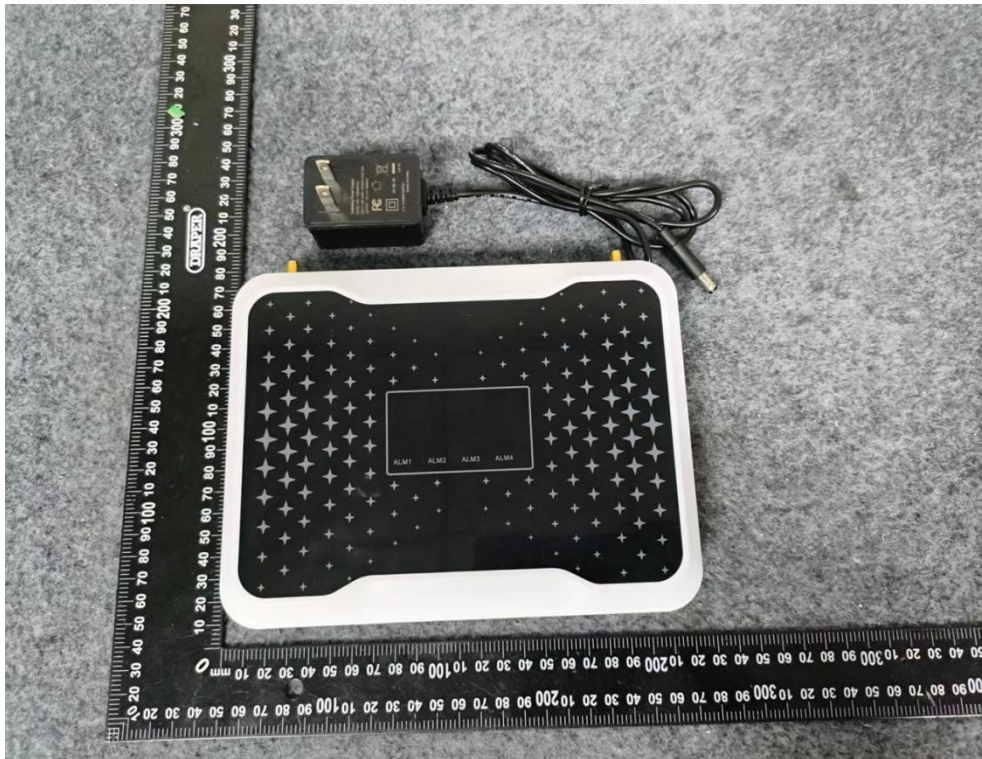
Above 1GHz

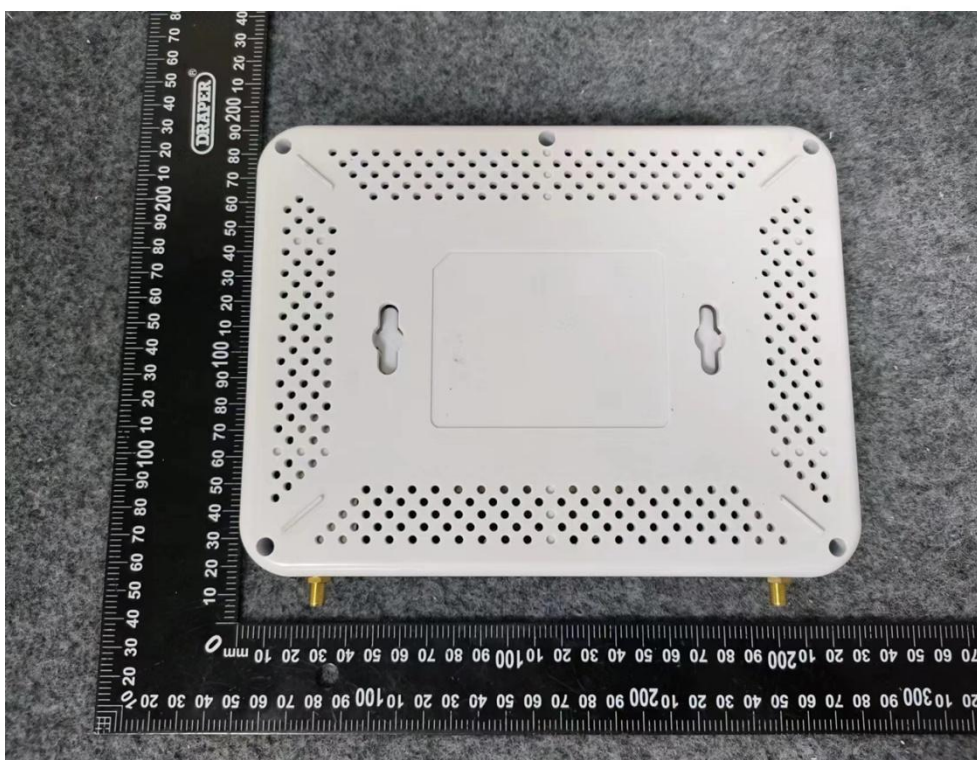
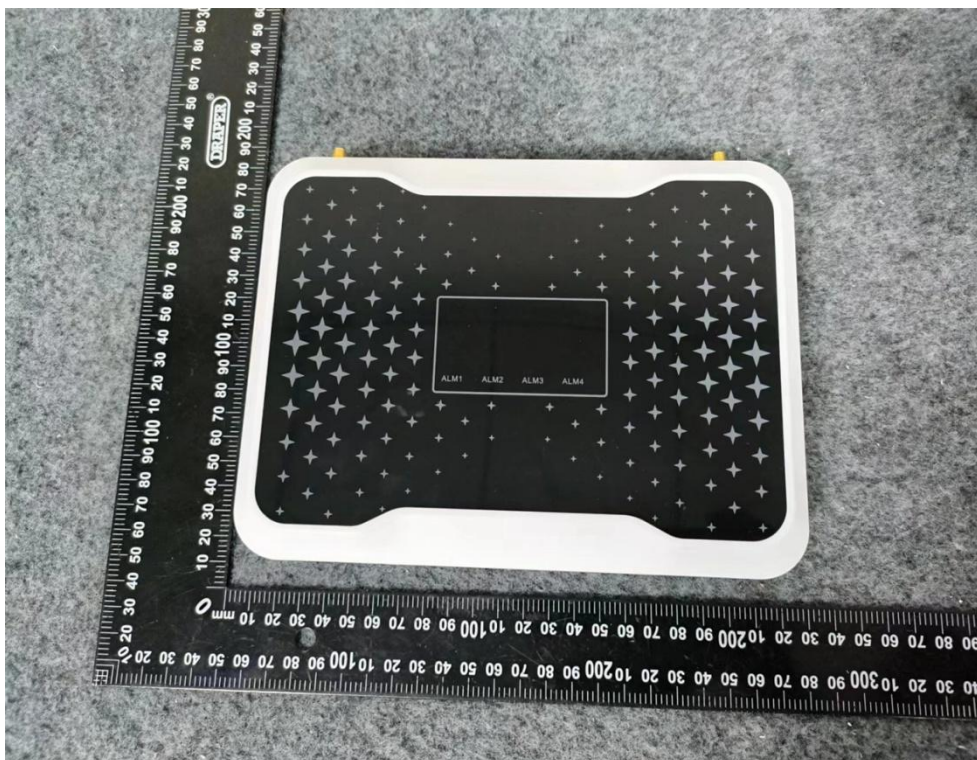


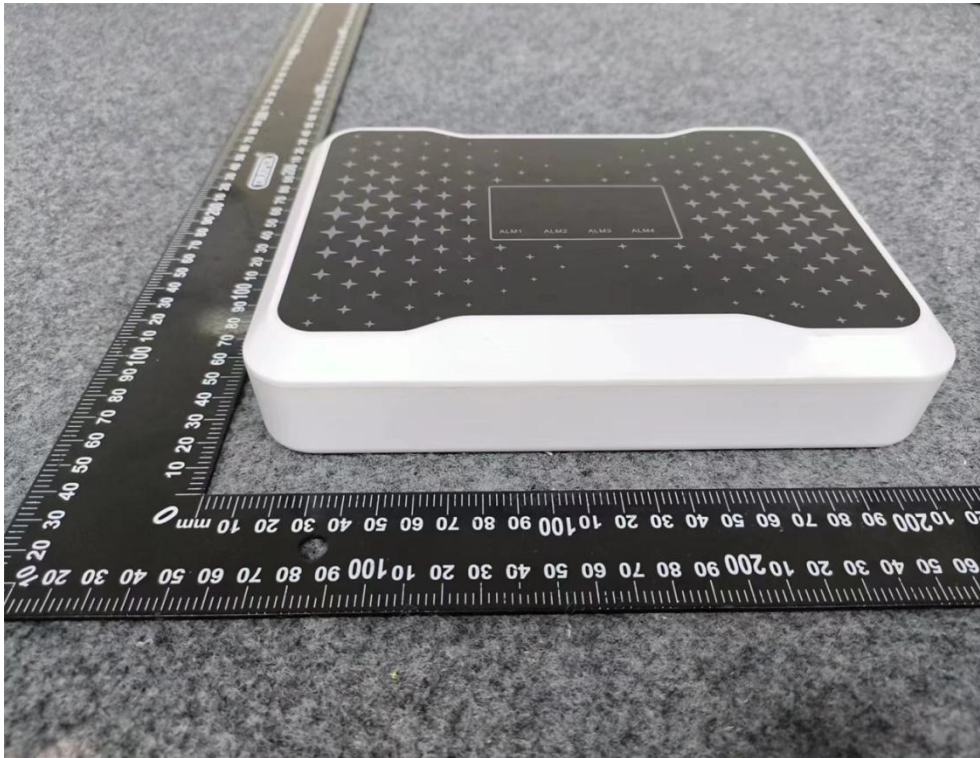
RF Test

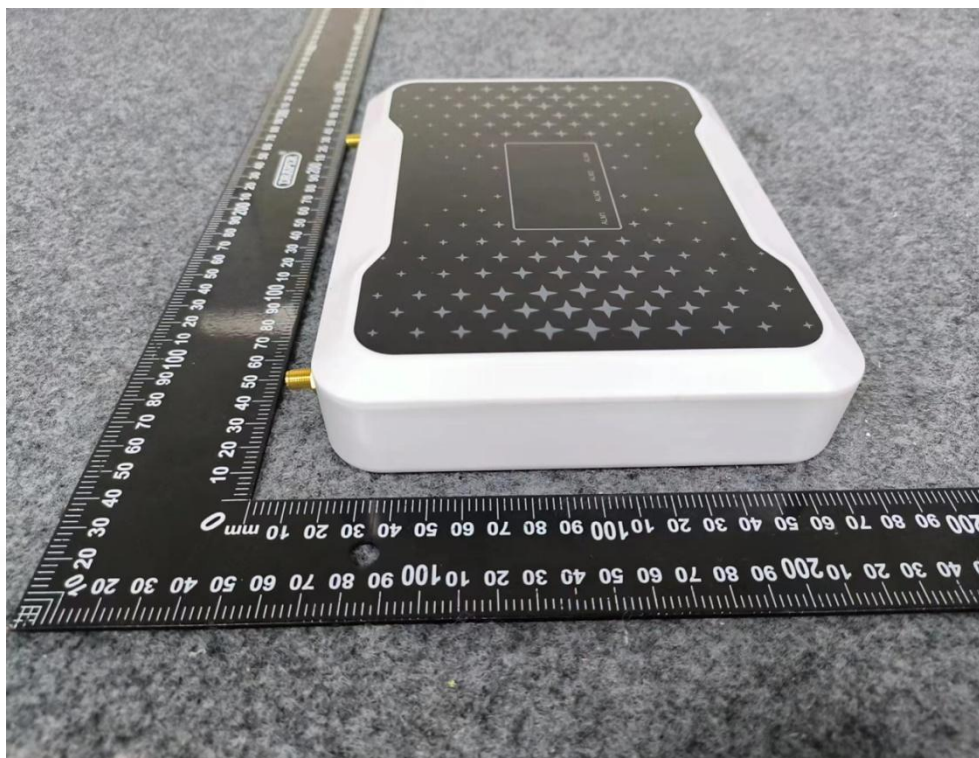


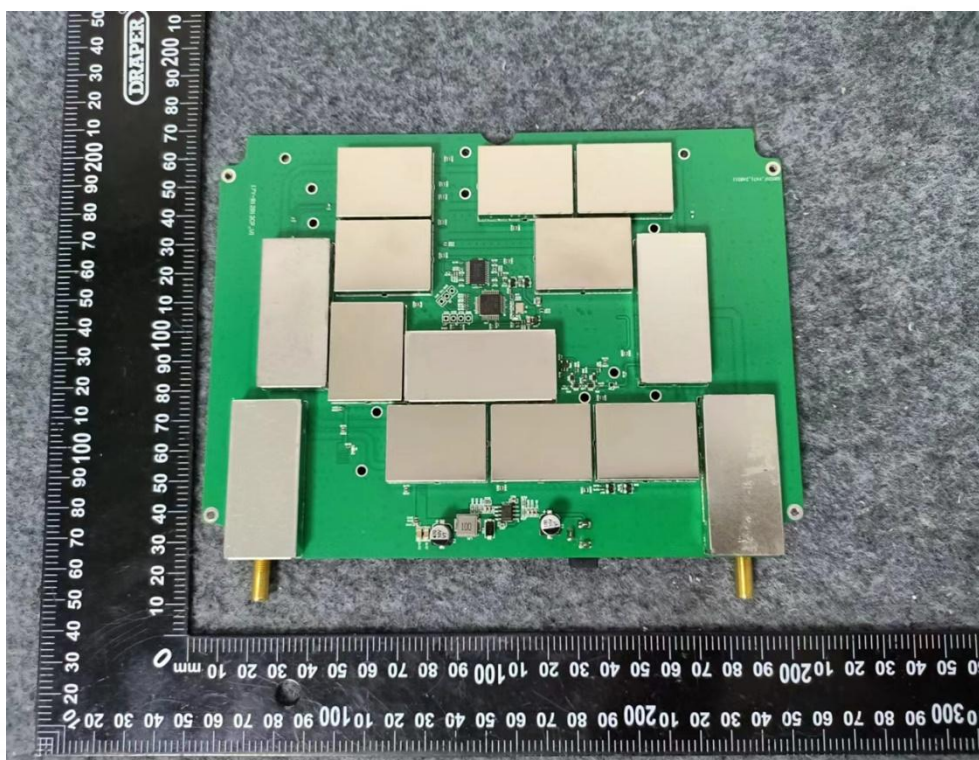
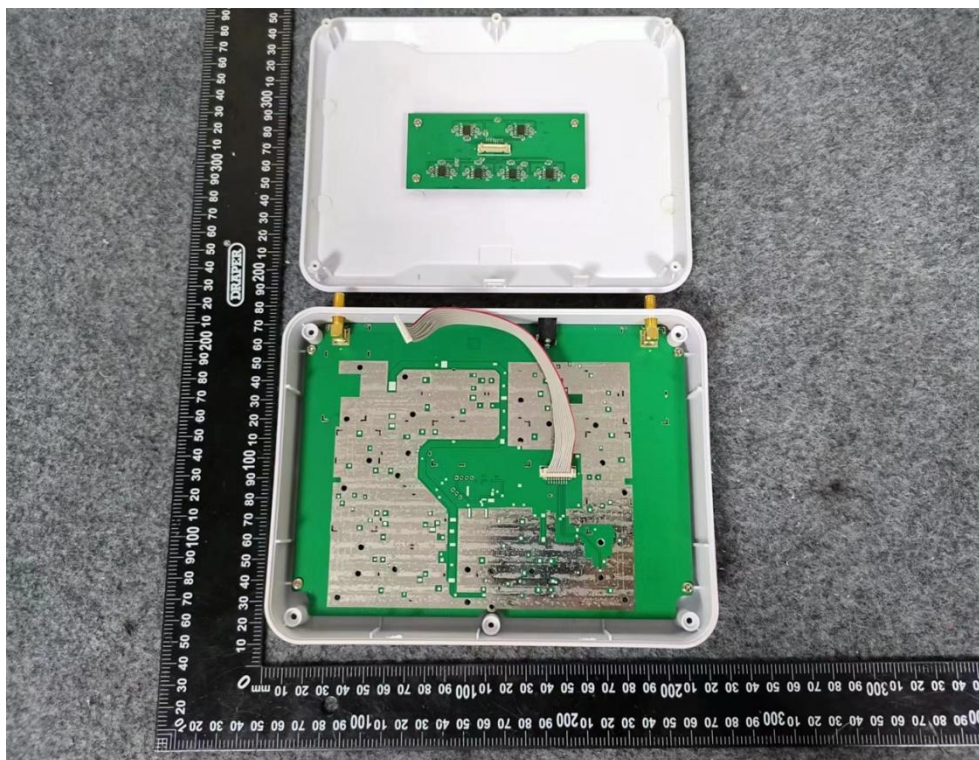
7 EUT Photos

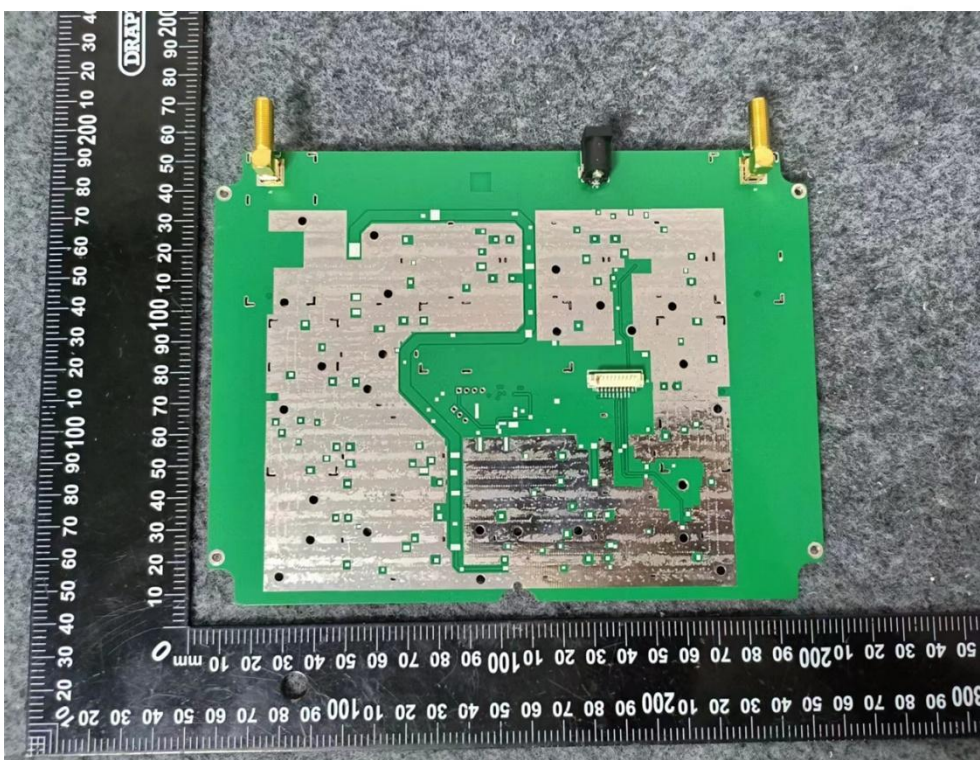
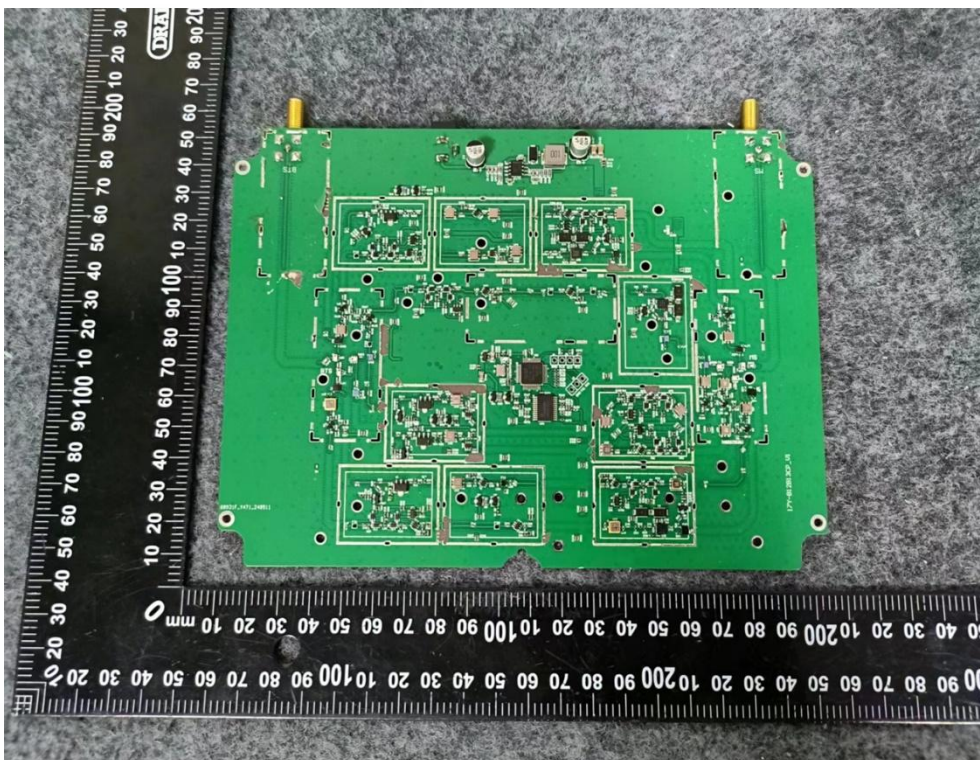


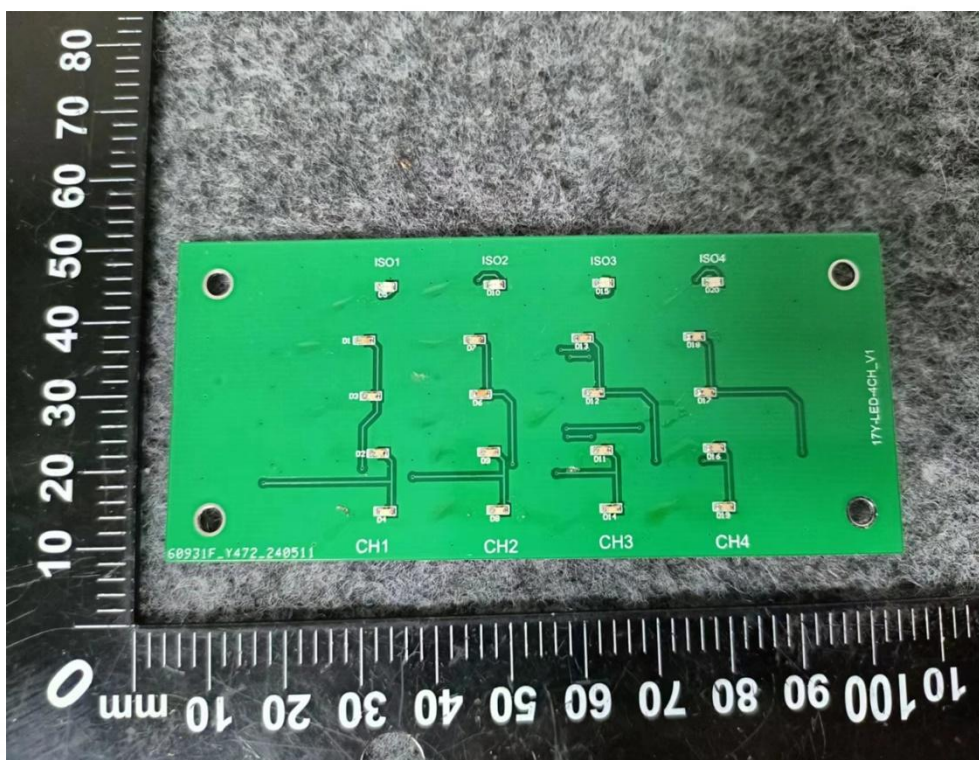
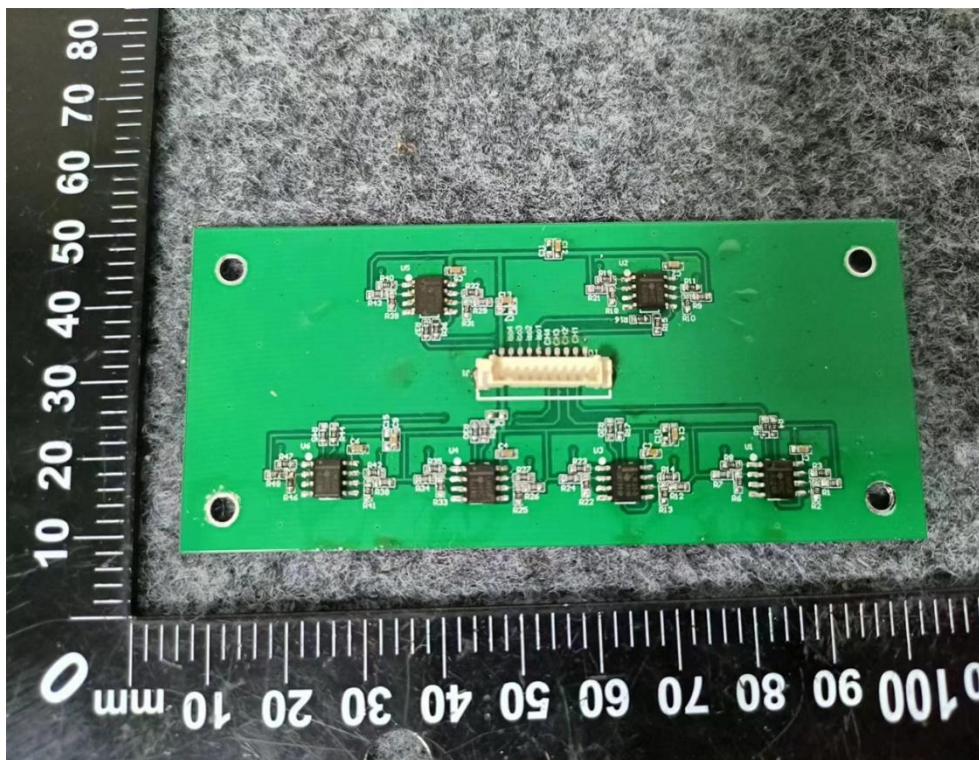














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BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
Bao'an District, Shenzhen, China

www.btf-lab.com

-- END OF REPORT --