

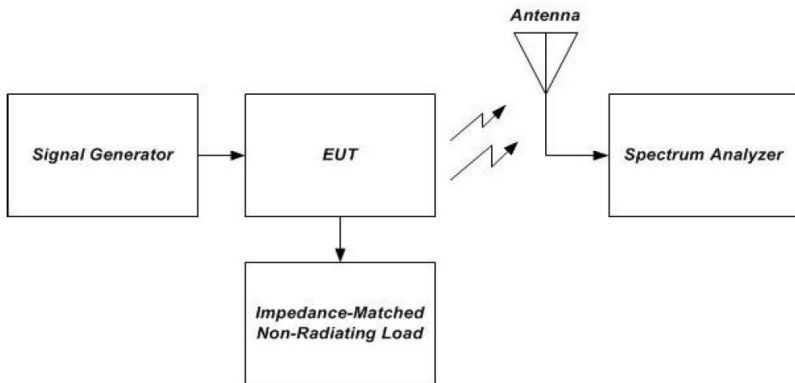
Band 12	Uplink(699-716MHz)						
Signal Type	AWGN						
Isolation	Peak Oscillations		Minimal Level		Difference	Limit	Result
	Freq.	Level	Freq.	Level			
dB	MHz	dBm	MHz	dBm	dB	dB	PASS
+5	701.23	-59.28	715.15	-68.01	8.73	<12	PASS
+4	701.23	-60.31	715.15	-69.54	9.23	<12	PASS
+3	701.23	-61.27	715.15	-70.04	8.77	<12	PASS
+2	701.23	-62.41	715.15	-72.47	10.06	<12	PASS
+1	701.23	-63.23	715.15	-71.14	7.91	<12	PASS
+0	701.23	-62.14	715.15	-72.32	10.18	<12	PASS
-1	701.23	-64.29	715.15	-72.01	7.72	<12	PASS
-2	701.23	-65.28	715.15	-73.47	8.19	<12	PASS
-3	EUT Shutdown						

Band 12	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	731.25	-61.27	745.11	-66.48	5.21	<12	PASS
+4	731.25	-62.24	745.11	-67.41	5.17	<12	PASS
+3	731.25	-63.54	745.11	-68.27	4.73	<12	PASS
+2	731.25	-63.19	745.11	-67.36	4.17	<12	PASS
+1	731.25	-62.28	745.11	-69.45	7.17	<12	PASS
+0	731.25	-63.31	745.11	-69.24	5.93	<12	PASS
-1	731.25	-64.28	745.11	-71.34	7.06	<12	PASS
-2	731.25	-65.53	745.11	-71.12	5.59	<12	PASS
-3	EUT Shutdown						

Band 13	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	778.21	-58.21	786.58	-66.01	7.80	<12	PASS
+4	778.21	-60.14	786.58	-69.36	9.22	<12	PASS
+3	778.21	-61.63	786.58	-70.21	8.58	<12	PASS
+2	778.21	-62.28	786.58	-71.56	9.28	<12	PASS
+1	778.21	-62.14	786.58	-70.32	8.18	<12	PASS
+0	778.21	-62.58	786.58	-68.27	5.69	<12	PASS
-1	778.21	-64.21	786.58	-70.12	5.91	<12	PASS
-2	778.21	-64.29	786.58	-71.23	6.94	<12	PASS
-3	EUT Shutdown						

Band 13	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	747.23	-60.56	755.21	-66.27	5.71	<12	PASS
+4	747.23	-61.35	755.21	-68.24	6.89	<12	PASS
+3	747.23	-61.28	755.21	-68.17	6.89	<12	PASS
+2	747.23	-62.52	755.21	-65.57	3.05	<12	PASS
+1	747.23	-63.15	755.21	-68.68	5.53	<12	PASS
+0	747.23	-62.05	755.21	-70.31	8.26	<12	PASS
-1	747.23	-62.35	755.21	-70.68	8.33	<12	PASS
-2	747.23	-63.47	755.21	-70.47	7.00	<12	PASS
-3	EUT Shutdown						

## 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:	 <p style="text-align: center;">Figure 10 – Radiated spurious emissions test and instrumentation setup</p>
Procedure:	<ol style="list-style-type: none"> <li>Place the EUT on an OATS or Anechoic chamber turntable 3m from the receiving antenna.</li> <li>Connect the EUT to the test equipment as shown in Figure 9 beginning with the uplink output</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>Repeat steps 7.12.3 to 7.12.5 for all operational bands.</li> </ol>

### 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]
Band 5 Uplink				
859.1	V	-38.35	-13.00	25.35
859.1	H	-40.15		27.15
1756.0	V	-40.27		27.27
1756.0	H	-40.18		27.18
-	-	-	-	-
Band 5 Downlink				
884.2	V	-50.38	-13.00	37.38
884.2	H	-51.27		38.27
1796.0	V	-49.04		36.04
1796.0	H	-50.15		37.15
-	-	-	-	-

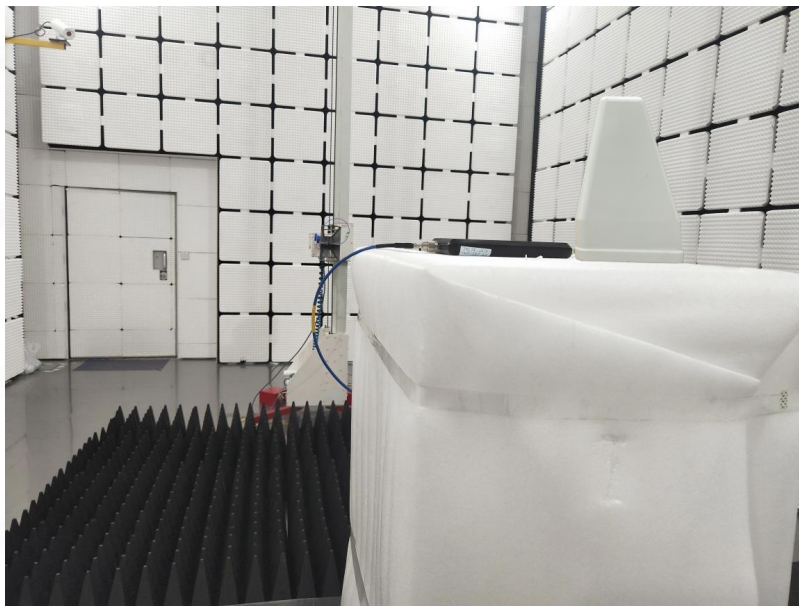
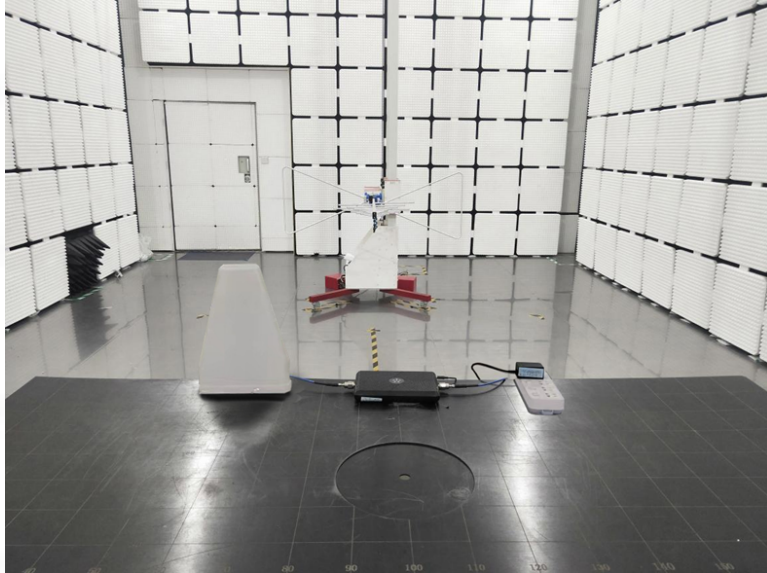
Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
Band25 Uplink				
943.0	V	-39.21	-13.00	26.21
943.0	H	-40.58		27.58
3758.0	V	-41.01		28.01
3758.0	H	-40.39		27.39
-	-	-	-	-
Band25 Downlink				
980.1	V	-50.28	-13.00	37.28
980.1	H	-50.41		37.41
3941.0	V	-50.36		37.36
3941.0	H	-50.47		37.47

Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
Band 4 Uplink				
861.3	V	-45.15	-13.00	32.15
861.3	H	-43.20		30.20
2535.2	V	-44.16		31.16
2535.2	H	-43.31		30.31
-	-	-	-	-
Band 4 Downlink				
920	V	-50.35	-13.00	37.35
920	H	-51.01		38.01
3821	V	-48.25		35.25
3821	H	-51.01		38.01
-	-	-	-	-

Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
Band12 Uplink				
968.1	V	-40.24	-13.00	27.24
968.1	H	-41.96		28.96
1697.2	V	-42.31		29.31
1697.2	H	-41.28		28.28
-	-	-	-	-
Band12 Downlink				
964.3	V	-50.68	-13.00	37.68
964.3	H	-51.24		38.24
1864.8	V	-50.12		37.12
1864.8	H	-50.23		37.23
-	-	-	-	-

Frequency [MHz]	Antenna polarity [H/V]	Level [dBm]	Limit [dBm]	Margin [dB]
Band 13 Uplink				
925.3	V	-45.69	-13.00	32.69
925.3	H	-43.15		30.15
1863.1	V	-44.11		31.11
1863.1	H	-43.28		30.28
-	-	-	-	-
Band 13 Downlink				
920.9	V	-49.12	-13.00	36.12
920.9	H	-50.17		37.17
1835.8	V	-48.28		35.28
1835.8	H	-51.39		38.39
-	-	-	-	-

## 6 Test Setup Photos

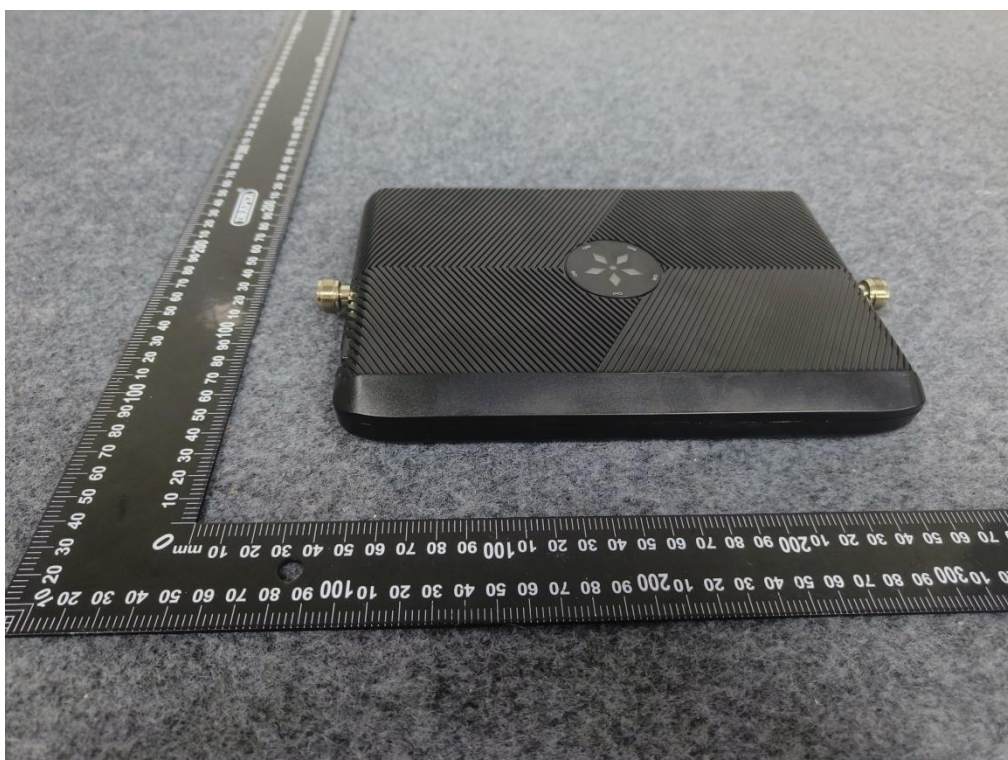




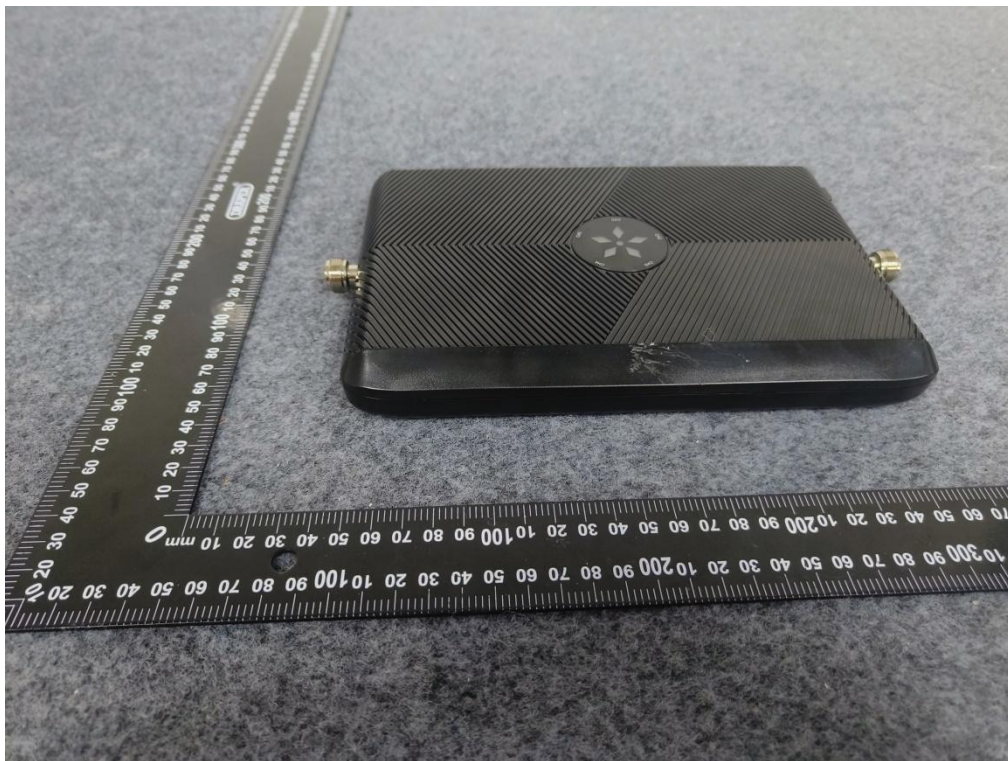
## 7 EUT Photos



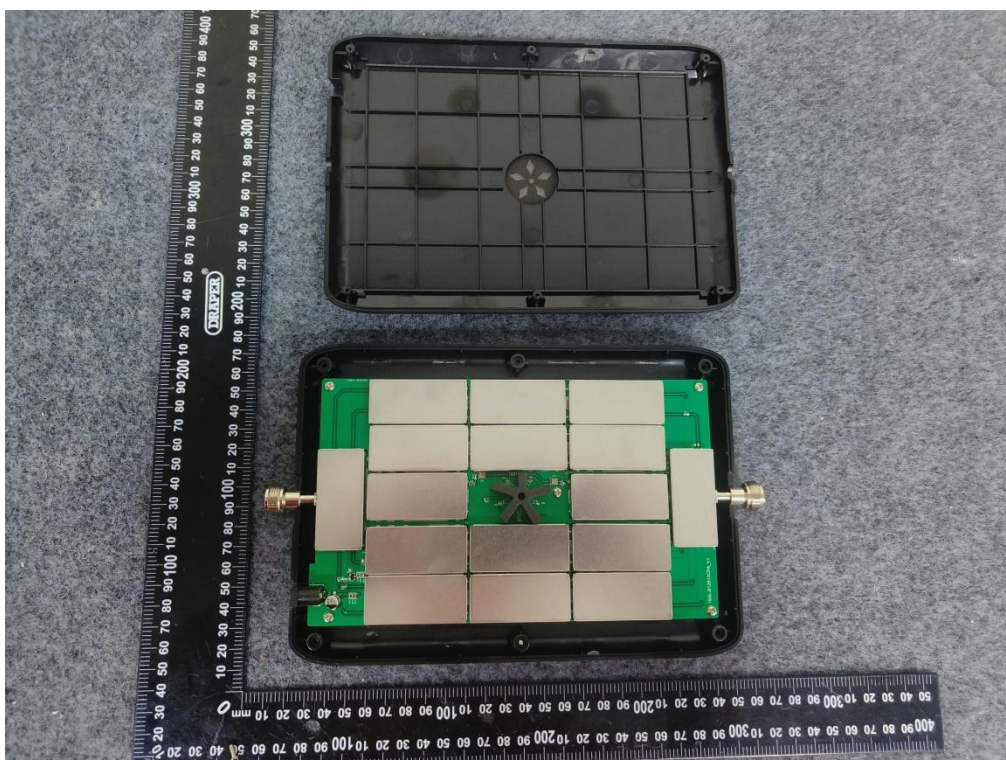


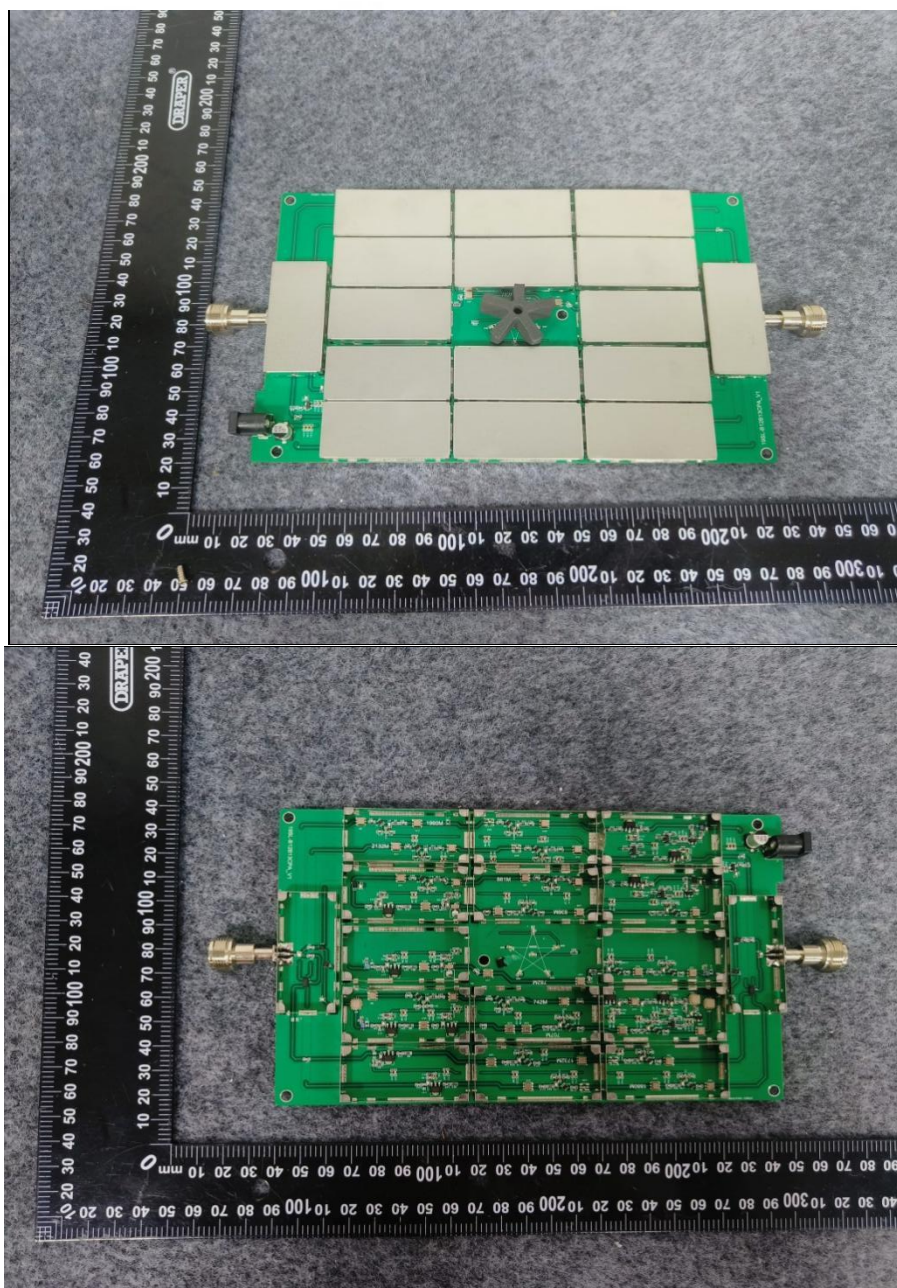




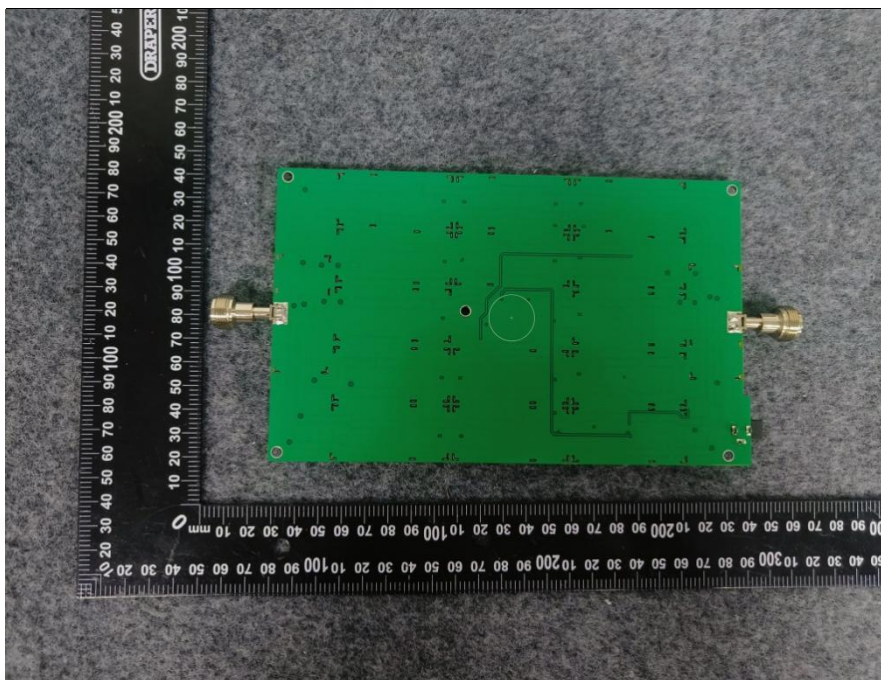
















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