

FCC REPORT



Report No. : CHTW24110003 **Report Verification:**

Project No..... : SHT2409050501W

FCC ID..... : 2A2EL-ARM-90B

Applicant : Shenzhen AOJ Medical Technology Co., Ltd.

Address..... : Room 301&4F, Block A, Building A, Jingfa Intelligent
Manufacturing Park, Xiawei Yuan, Gushu Community, Xixiang
Street, Bao'an District, 518126 Shenzhen, PEOPLE'S REPUBLIC
OF CHINA

Product Name : Arm Blood Pressure Monitor

Trade Mark : -

Model No. : ARM-90B

Listed Model(s) : -

Standard : FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27

Date of receipt of test sample..... : Sep. 29, 2024

Date of testing..... : Oct. 14, 2024- Nov. 08, 2024

Date of issue..... : Nov. 11, 2024

Result..... : Pass

Compiled by
(position+printedname+signature)....: File administrators Xiaodong Zhao

Xiaodong Zhao

Supervised by
(position+printedname+signature)....: Project Engineer Xiaodong Zhao

Xiaodong Zhao

Approved by
(position+printedname+signature)....: RF Manager Xu Yang

Xu Yang

Testing Laboratory Name : Shenzhen Huatongwei International Inspection Co., Ltd.

Address..... : Building 7, Baiwang Idea Factory, No.1051, Songbai Road,
Yangguang Community, Xili Subdistrict, Nanshan District,
Shenzhen, Guangdong, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

[FCC CFR Title 47 Part 2:](#) Frequency Allocations and Radio Treaty Matters; General Rules and Regulations

[FCC CFR Title 47 Part 22 Subpart H:](#) Cellular Radiotelephone Service

[FCC CFR Title 47 Part 24 Subpart E:](#) Broadband PCS

[FCC CFR Title 47 Part 27:](#) Miscellaneous Wireless Communications Services

[ANSI C63.26-2015:](#) American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[KDB 971168 D01 Power Meas License Digital Systems v03:](#) MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2024-11-11	Original

2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result #1	Test Engineer
5.1	Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	Xiangyu Wei
5.2	Peak-to-Average Ratio	Part 24.232 Part 27.50	Pass	Xiangyu Wei
5.3	99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	Pass	Xiangyu Wei
5.4	Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiangyu Wei
5.5	Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiangyu Wei
5.6	Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	Xiangyu Wei
5.7	Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	Xiangyu Wei
5.8	ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	Pass	Xiangyu Wei
5.9	Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	Yifan Wang

Note:

#1: The test result does not include measurement uncertainty value

3. SUMMARY

3.1. Client Information

Applicant:	Shenzhen AOJ Medical Technology Co., Ltd.
Address:	Room 301&4F, Block A, Building A, Jingfa Intelligent Manufacturing Park, Xiawei Yuan, Gushu Community, Xixiang Street, Bao'an District, 518126 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Shenzhen AOJ Medical Technology Co., Ltd.
Address:	Room 301&4F, Block A, Building A, Jingfa Intelligent Manufacturing Park, Xiawei Yuan, Gushu Community, Xixiang Street, Bao'an District, 518126 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

3.2. Product Description

Main unit information:	
Product Name:	Arm Blood Pressure Monitor
Trade Mark:	-
Model No.:	ARM-90B
Listed Model(s):	-
Power supply:	DC 3.7V from Battery
Hardware version:	V1.3
Software version:	V.1.0.0

3.3. Radio Specification Description

Support LTE type:	☒ Cat M1 ☐ Cat M2					
Support Operating Band:	☒ FDD Band 2		☒ FDD Band 4		☒ FDD Band 12	
	☒ FDD Band 13		☒ FDD Band 25			
Operating Frequency Range:	Please refer to note #2					
Channel bandwidth:	Please refer to note #3					
Maximum RB:	Cat M1					
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
	6	6	6	6	6	6
Uplink Modulation type:	☒ QPSK		☒ 16QAM		☐ 64QAM ☐ 256QAM	
Downlink Modulation type:	☒ QPSK		☒ 16QAM		☐ 64QAM ☐ 256QAM	
Antenna type:	FPC					
Antenna gain ^{#4} :	3dBi					

Note:

○ ☒: means that this feature is supported; ☐: means that this feature is not supported

○ #2: Operating frequency range is as follow:

LTE Band	Uplink frequency	Downlink frequency
FDD Band 2	1850.7 – 1909.3 MHz	1930.7 – 1989.3 MHz
FDD Band 4	1710.7 – 1754.3 MHz	2110.7 – 2154.3 MHz
FDD Band 12	699.7 – 715.3 MHz	729.7 – 745.3 MHz
FDD Band 13	779.5 – 784.5 MHz	748.5 – 753.5 MHz
FDD Band 25	1850.7 - 1914.3 MHz	1930.7 - 1994.3 MHz

○ #3: Supported channel bandwidth is as follow:

LTE Band	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
FDD Band 2	√	√	√	√	√	√
FDD Band 4	√	√	√	√	√	√
FDD Band 12	√	√	√	√	-	-
FDD Band 13	-	-	√	√	-	-
FDD Band 25	√	√	√	√	√	√

√: means that this feature is supported; -: means that this feature is not supported

○ #4: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, HTW lab has not verified the authenticity of its information

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

FDD Band 2	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="6">Low Range</td><td>1.4</td><td>18607</td><td>1850.7</td><td>607</td><td>1930.7</td></tr><tr><td>3</td><td>18615</td><td>1851.5</td><td>615</td><td>1931.5</td></tr><tr><td>5</td><td>18625</td><td>1852.5</td><td>625</td><td>1932.5</td></tr><tr><td>10</td><td>18650</td><td>1855</td><td>650</td><td>1935</td></tr><tr><td>15 ^[1]</td><td>18675</td><td>1857.5</td><td>675</td><td>1937.5</td></tr><tr><td>20 ^[1]</td><td>18700</td><td>1860</td><td>700</td><td>1940</td></tr><tr><td>Mid Range</td><td>1.4/3/5/10/15 ^[1]/20 ^[1]</td><td>18900</td><td>1880</td><td>900</td><td>1960</td></tr><tr><td rowspan="6">High Range</td><td>1.4</td><td>19193</td><td>1909.3</td><td>1193</td><td>1989.3</td></tr><tr><td>3</td><td>19185</td><td>1908.5</td><td>1185</td><td>1988.5</td></tr><tr><td>5</td><td>19175</td><td>1907.5</td><td>1175</td><td>1987.5</td></tr><tr><td>10</td><td>19150</td><td>1905</td><td>1150</td><td>1985</td></tr><tr><td>15 ^[1]</td><td>19125</td><td>1902.5</td><td>1125</td><td>1982.5</td></tr><tr><td>20 ^[1]</td><td>19100</td><td>1900</td><td>1100</td><td>1980</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	1.4	18607	1850.7	607	1930.7	3	18615	1851.5	615	1931.5	5	18625	1852.5	625	1932.5	10	18650	1855	650	1935	15 ^[1]	18675	1857.5	675	1937.5	20 ^[1]	18700	1860	700	1940	Mid Range	1.4/3/5/10/15 ^[1] /20 ^[1]	18900	1880	900	1960	High Range	1.4	19193	1909.3	1193	1989.3	3	19185	1908.5	1185	1988.5	5	19175	1907.5	1175	1987.5	10	19150	1905	1150	1985	15 ^[1]	19125	1902.5	1125	1982.5	20 ^[1]	19100	1900	1100	1980	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					
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FDD Band 12	<table><tr><th colspan="6">Table 4.3.1.12-1: Test frequencies for E-UTRA channel bandwidth for operating band 12</th></tr><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="4">Low Range</td><td>1.4</td><td>23017</td><td>699.7</td><td>5017</td><td>729.7</td></tr><tr><td>3</td><td>23025</td><td>700.5</td><td>5025</td><td>730.5</td></tr><tr><td>5 ^[1]</td><td>23035</td><td>701.5</td><td>5035</td><td>731.5</td></tr><tr><td>10 ^[1]</td><td>23060</td><td>704</td><td>5060</td><td>734</td></tr><tr><td>Mid Range</td><td>1.4/3/5 ^[1]/10 ^[1]</td><td>23095</td><td>707.5</td><td>5095</td><td>737.5</td></tr><tr><td rowspan="4">High Range</td><td>1.4</td><td>23173</td><td>715.3</td><td>5173</td><td>745.3</td></tr><tr><td>3</td><td>23165</td><td>714.5</td><td>5165</td><td>744.5</td></tr><tr><td>5 ^[1]</td><td>23155</td><td>713.5</td><td>5155</td><td>743.5</td></tr><tr><td>10 ^[1]</td><td>23130</td><td>711</td><td>5130</td><td>741</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Table 4.3.1.12-1: Test frequencies for E-UTRA channel bandwidth for operating band 12						Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	1.4	23017	699.7	5017	729.7	3	23025	700.5	5025	730.5	5 ^[1]	23035	701.5	5035	731.5	10 ^[1]	23060	704	5060	734	Mid Range	1.4/3/5 ^[1] /10 ^[1]	23095	707.5	5095	737.5	High Range	1.4	23173	715.3	5173	745.3	3	23165	714.5	5165	744.5	5 ^[1]	23155	713.5	5155	743.5	10 ^[1]	23130	711	5130	741	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																			
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FDD Band 13	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="2">Low Range</td><td>5 ^[1]</td><td>23205</td><td>779.5</td><td>5205</td><td>748.5</td></tr><tr><td>10 ^[1]</td><td>23230</td><td>782</td><td>5230</td><td>751</td></tr><tr><td>Mid Range</td><td>5 ^[1]/10 ^[1]</td><td>23230</td><td>782</td><td>5230</td><td>751</td></tr><tr><td rowspan="2">High Range</td><td>5 ^[1]</td><td>23255</td><td>784.5</td><td>5255</td><td>753.5</td></tr><tr><td>10 ^[1]</td><td>23230</td><td>782</td><td>5230</td><td>751</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	5 ^[1]	23205	779.5	5205	748.5	10 ^[1]	23230	782	5230	751	Mid Range	5 ^[1] /10 ^[1]	23230	782	5230	751	High Range	5 ^[1]	23255	784.5	5255	753.5	10 ^[1]	23230	782	5230	751	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																																													
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FDD Band 25	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="6">Low Range</td><td>1.4</td><td>26047</td><td>1850.7</td><td>8047</td><td>1930.7</td></tr><tr><td>3</td><td>26055</td><td>1851.5</td><td>8055</td><td>1931.5</td></tr><tr><td>5</td><td>26065</td><td>1852.5</td><td>8065</td><td>1932.5</td></tr><tr><td>10</td><td>26090</td><td>1855</td><td>8090</td><td>1935</td></tr><tr><td>15 ^[1]</td><td>26115</td><td>1857.5</td><td>8115</td><td>1937.5</td></tr><tr><td>20 ^[1]</td><td>26140</td><td>1860</td><td>8140</td><td>1940</td></tr><tr><td>Mid Range</td><td>1.4/3/5/10/15 ^[1]/20 ^[1]</td><td>26365</td><td>1882.5</td><td>8365</td><td>1962.5</td></tr><tr><td rowspan="6">High Range</td><td>1.4</td><td>26683</td><td>1914.3</td><td>8683</td><td>1994.3</td></tr><tr><td>3</td><td>26675</td><td>1913.5</td><td>8675</td><td>1993.5</td></tr><tr><td>5</td><td>26665</td><td>1912.5</td><td>8665</td><td>1992.5</td></tr><tr><td>10</td><td>26640</td><td>1910</td><td>8640</td><td>1990</td></tr><tr><td>15 ^[1]</td><td>26615</td><td>1907.5</td><td>8615</td><td>1987.5</td></tr><tr><td>20 ^[1]</td><td>26590</td><td>1905</td><td>8590</td><td>1985</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	1.4	26047	1850.7	8047	1930.7	3	26055	1851.5	8055	1931.5	5	26065	1852.5	8065	1932.5	10	26090	1855	8090	1935	15 ^[1]	26115	1857.5	8115	1937.5	20 ^[1]	26140	1860	8140	1940	Mid Range	1.4/3/5/10/15 ^[1] /20 ^[1]	26365	1882.5	8365	1962.5	High Range	1.4	26683	1914.3	8683	1994.3	3	26675	1913.5	8675	1993.5	5	26665	1912.5	8665	1992.5	10	26640	1910	8640	1990	15 ^[1]	26615	1907.5	8615	1987.5	20 ^[1]	26590	1905	8590	1985	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					
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	10	26090	1855	8090	1935																																																																												
	15 ^[1]	26115	1857.5	8115	1937.5																																																																												
	20 ^[1]	26140	1860	8140	1940																																																																												
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High Range	1.4	26683	1914.3	8683	1994.3																																																																												
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4.2. Test mode

Test mode	Link mode
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- 1) Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems and ANSI C63.26 with maximum output power.
- 2) Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Test configuration is as follow:

Test Items	Bandwidth	Modulation	RB #		
			1	Half	Full
Conducted Output Power	#5	#6	○	○	○
Peak-to-Average Ratio	#5	#6	○	-	○
99% Occupied Bandwidth & 26 dB Bandwidth	#5	#6	-	-	○
Band Edge	#5	#6	○	-	○
Conducted Spurious Emission	#5	#6	○	-	-
Frequency Stability	#5	#6	-	-	○
ERP and EIRP	#5	#6	○	○	○
Radiated Spurious Emission	#5	#6	○	-	-

Note:

- #5: Test all kind of bandwidth in section 3.3
- #6: Test all kind of uplink modulation in section 3.3
- ○: means that this configuration is chosen for testing
- -: means that this configuration is not test.
- The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different bandwidth, modulations and RB size/offset in exploratory test. Subsequently, only the worst case emissions (highest bandwidth, QPSK, and 1RB0) are reported.

4.3. Test sample information

Test item	HTW sample no.
Conducted test items	Please refer to the description in the appendix report
Radiated test items	YPHT24090505005

Note:

Conducted test items: Conducted Output Power, Peak-Average Ratio, 99% Occupied Bandwidth & 26 dB Bandwidth, Band Edge, Conducted Spurious Emissions, Frequency stability, ERP and EIRP

Radiated test items: Radiated Spurious Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?				
✓ No				
Item	Equipment	Trade Name	Model No.	Other
1				
2				

4.5. Testing environmental condition

Voltage	VN=Nominal Voltage	DC 3.70V
	VL=Lower Voltage	DC 3.33V
	VH=Higher Voltage	DC 4.20V
Temperature	TN=Normal Temperature	25 °C
	Extreme Temperature	From -30°C to + 50°C
Humidity	30~60 %	
Air Pressure	950-1050 hPa	

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted Output Power	0.66
2	Peak-to-Average Ratio	-
3	99% Occupied Bandwidth & 26 dB Bandwidth	0.002%
4	Band Edge	1.68dB
5	Conducted Spurious Emissions	1.68dB
6	Frequency stability	0.02ppm
7	Radiated Spurious Emission	4.52dB for 30MHz-1GHz 4.58dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.7. Equipments Used during the Test

● RF Conducted test item

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2024/08/22	2025/08/21
●	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2024/08/12	2025/08/11
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A
●	T-Cock	Weinschel	HTWE0289	1580	SC329	2024/08/22	2025/08/21

● Auxiliary Equipment

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2024/06/11	2025/06/10
●	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

● Radiated Spurious Emission

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2024/8/12	2025/8/11
●	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2024/8/12	2025/8/11
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2024/4/8	2027/4/7
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2023/2/20	2026/2/19
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2024/6/6	2025/6/5
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2024/6/6	2025/6/5
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

● Auxiliary Equipment

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2024/08/12	2025/08/11
●	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2024/03/26	2025/03/25
●	Band Stop filter	-	HTWE0039	N/A	N/A	2024/01/23	2025/01/24

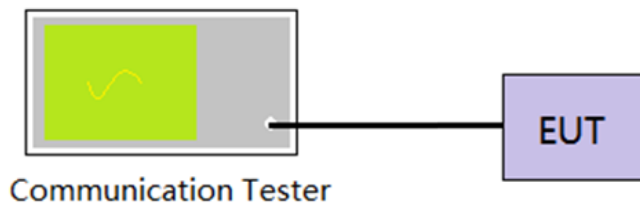
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT output port was connected to communication tester.
2. Set EUT at maximum power through communication tester.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

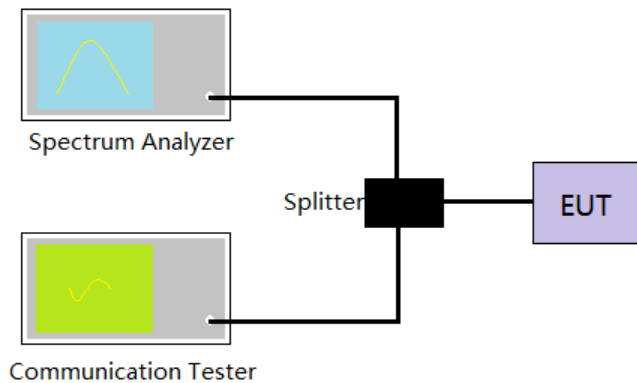
Refer to the appendix report

5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power
6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

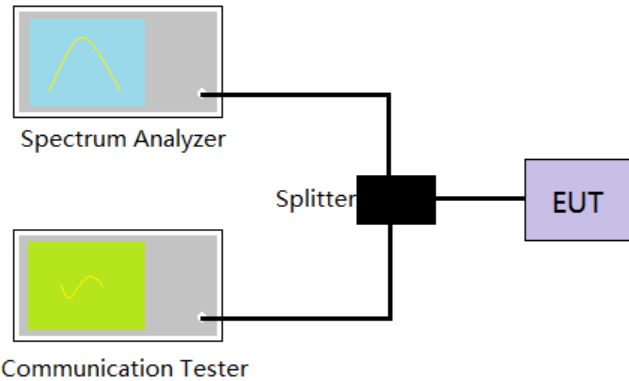
Refer to the appendix report

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
Center Frequency= Carrier frequency, RBW=1% to 5% of the anticipated OBW, VBW= 3 * RBW,
Detector=Peak,
Trace maximum hold.
4. Record the value of 99% Occupied bandwidth and 26dB bandwidth.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

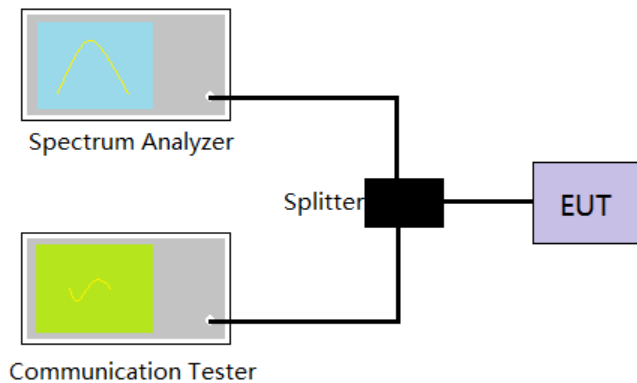
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. The band edges of low and high channels were measured.
4. Spectrum analyzer setting as follow:
RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
5. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

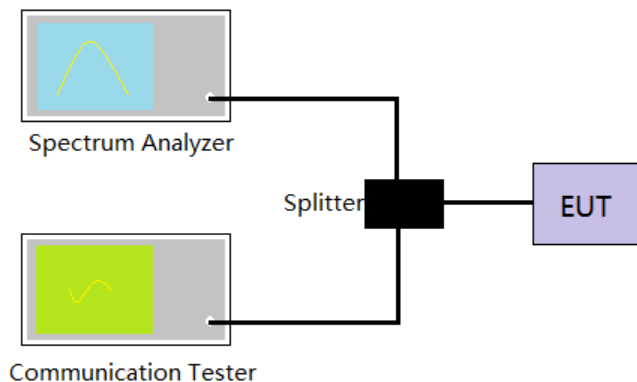
5.5. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto
Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto
Scan frequency range up to 10th harmonic.
4. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

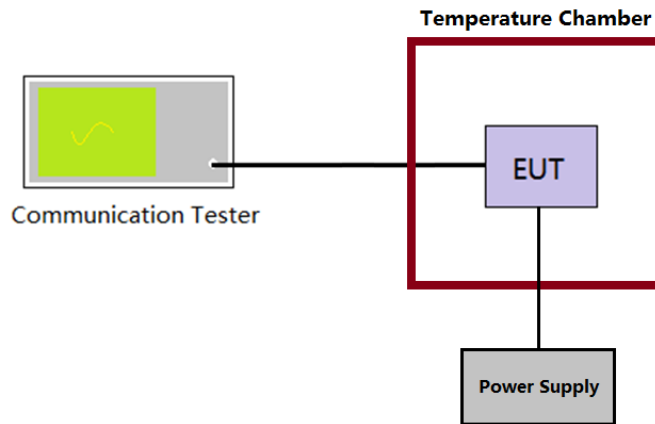
Refer to the appendix report

5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber.
4. Turn EUT off and set the chamber temperature to -30°C . After the temperature stabilized for approximately 30 minutes recorded the frequency.
5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of $+50^{\circ}\text{C}$ reached.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

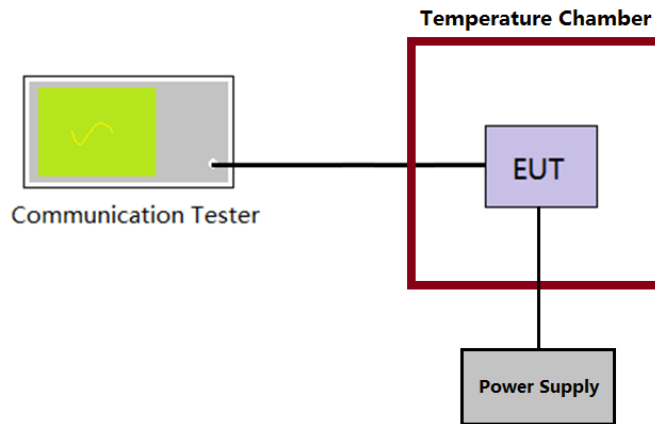
Refer to the appendix report

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber at 25°C
4. The power supply voltage to the EUT was varied $\pm 15\%$ of the nominal value measured at the input to the EUT
5. Record the maximum frequency change.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.8. ERP and EIRP

LIMIT

LTE Band 2/25: 2W(33dBm) EIRP

LTE Band 4: 1W(30dBm) EIRP

LTE Band 12/13: 3W(34.77dBm) ERP

TEST PROCEDURE

1. According to the power tested in section 5.1, select the maximum power in each mode, and use the following formula to calculate the corresponding ERP/EIRP.
2. $ERP = \text{conducted power} + \text{Gain(dBd)}$
3. $EIRP = \text{conducted power} + \text{Gain(dBi)}$
 $ERP = EIRP - 2.15$

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

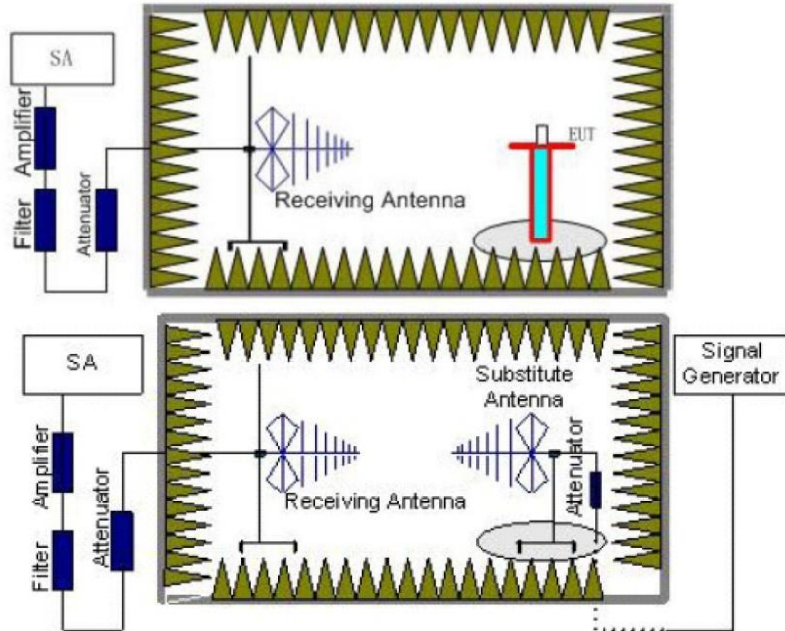
Refer to the appendix report

5.9. Radiated Spurious Emission

LIMIT

LTE Band 2/4/5/12/13: -13dBm

TEST CONFIGURATION



TEST PROCEDURE

1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
4. Receiver or Spectrum set as follow:
 Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto
 Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time=Auto
5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
7. Set-up the substitution measurement with the reference point of the substitution antenna located as near

as possible to where the center of the EUT radiating element was located during the initial EUT measurement.

8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
where
 P_e = equivalent emission power in dBm
 P_s = source (signal generator) power in dBm
NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:
$$\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB}.$$
If necessary, the antenna gain can be calculated from calibrated antenna factor information
14. Provide the complete measurement results as a part of the test report.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note: only show the worse case for QPSK modulation.

LTE Band 2									
Test channel:		Low		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	57.50	-79.30	24.29	1.39	30.73	-84.35	-13.00	-71.35	Peak
2	253.59	-73.55	22.94	3.07	29.94	-77.48	-13.00	-64.48	Peak
3	3709.69	-47.88	42.28	5.22	40.74	-41.12	-13.00	-28.12	Peak
4	5574.67	-55.78	43.76	6.48	39.61	-45.15	-13.00	-32.15	Peak
5	6645.07	-55.29	46.54	7.34	39.28	-40.69	-13.00	-27.69	Peak
6	7045.74	-47.71	47.70	7.37	39.51	-32.15	-13.00	-19.15	Peak
Test channel:		Low		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	100.57	-79.60	25.67	1.88	30.48	-82.53	-13.00	-69.53	Peak
2	253.59	-73.75	20.96	3.07	29.94	-79.66	-13.00	-66.66	Peak
3	3709.69	-57.43	42.29	5.22	40.74	-50.66	-13.00	-37.66	Peak
4	4996.69	-56.90	44.50	6.00	40.20	-46.60	-13.00	-33.60	Peak
5	6645.07	-49.76	47.00	7.34	39.28	-34.70	-13.00	-21.70	Peak
6	7045.74	-50.17	47.65	7.37	39.51	-34.66	-13.00	-21.66	Peak

Test channel:		Middle		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	253.59	-75.81	22.94	3.07	29.94	-79.74	-13.00	-66.74	Peak
2	639.42	-80.82	29.02	5.10	29.44	-76.14	-13.00	-63.14	Peak
3	3747.66	-51.55	42.24	5.24	40.68	-44.75	-13.00	-31.75	Peak
4	4996.69	-57.01	44.35	6.00	40.20	-46.86	-13.00	-33.86	Peak
5	6645.07	-55.47	46.54	7.34	39.28	-40.87	-13.00	-27.87	Peak
6	7045.74	-46.20	47.70	7.37	39.51	-30.64	-13.00	-17.64	Peak
Test channel:		Middle		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	91.78	-78.63	25.86	1.80	30.67	-81.64	-13.00	-68.64	Peak
2	469.24	-79.14	25.32	4.31	29.75	-79.26	-13.00	-66.26	Peak
3	3747.66	-58.65	42.17	5.24	40.68	-51.92	-13.00	-38.92	Peak
4	4996.69	-56.35	44.50	6.00	40.20	-46.05	-13.00	-33.05	Peak
5	6645.07	-49.85	47.00	7.34	39.28	-34.79	-13.00	-21.79	Peak
6	7045.74	-46.91	47.65	7.37	39.51	-31.40	-13.00	-18.40	Peak

Test channel:		High		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	254.48	-76.32	22.95	3.08	29.97	-80.26	-13.00	-67.26	Peak
2	784.08	-78.51	29.80	5.73	29.23	-72.21	-13.00	-59.21	Peak
3	3795.66	-51.43	42.19	5.26	40.60	-44.58	-13.00	-31.58	Peak
4	4996.69	-58.13	44.35	6.00	40.20	-47.98	-13.00	-34.98	Peak
5	6645.07	-54.65	46.54	7.34	39.28	-40.05	-13.00	-27.05	Peak
6	7045.74	-46.41	47.70	7.37	39.51	-30.85	-13.00	-17.85	Peak
Test channel:		High		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	94.74	-79.96	25.82	1.82	30.60	-82.92	-13.00	-69.92	Peak
2	567.36	-77.28	26.07	4.77	29.68	-76.12	-13.00	-63.12	Peak
3	4256.33	-60.70	42.67	5.79	40.47	-52.71	-13.00	-39.71	Peak
4	4996.69	-58.04	44.50	6.00	40.20	-47.74	-13.00	-34.74	Peak
5	6645.07	-50.01	47.00	7.34	39.28	-34.95	-13.00	-21.95	Peak
6	7045.74	-48.36	47.65	7.37	39.51	-32.85	-13.00	-19.85	Peak

LTE Band 4									
Test channel:		Low		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	253.59	-78.15	22.94	3.07	29.94	-82.08	-13.00	-69.08	Peak
2	567.36	-75.87	26.27	4.77	29.68	-74.51	-13.00	-61.51	Peak
3	3428.21	-43.75	39.99	4.93	40.85	-39.68	-13.00	-26.68	Peak
4	4996.69	-59.23	44.35	6.00	40.20	-49.08	-13.00	-36.08	Peak
5	6645.07	-54.15	46.54	7.34	39.28	-39.55	-13.00	-26.55	Peak
6	7045.74	-48.09	47.70	7.37	39.51	-32.53	-13.00	-19.53	Peak
Test channel:		Low		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	88.93	-79.13	25.42	1.77	30.73	-82.67	-13.00	-69.67	Peak
2	257.18	-74.27	21.13	3.10	30.04	-80.08	-13.00	-67.08	Peak
3	3428.21	-49.87	40.01	4.93	40.85	-45.78	-13.00	-32.78	Peak
4	4996.69	-58.90	44.50	6.00	40.20	-48.60	-13.00	-35.60	Peak
5	6645.07	-49.32	47.00	7.34	39.28	-34.26	-13.00	-21.26	Peak
6	7045.74	-49.88	47.65	7.37	39.51	-34.37	-13.00	-21.37	Peak

Test channel:		Middle		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	272.07	-76.31	22.80	3.20	30.25	-80.56	-13.00	-67.56	Peak
2	634.94	-80.39	28.85	5.08	29.46	-75.92	-13.00	-62.92	Peak
3	3454.49	-45.87	40.36	4.98	40.88	-41.41	-13.00	-28.41	Peak
4	4996.69	-58.28	44.35	6.00	40.20	-48.13	-13.00	-35.13	Peak
5	6645.07	-53.52	46.54	7.34	39.28	-38.92	-13.00	-25.92	Peak
6	7045.74	-46.20	47.70	7.37	39.51	-30.64	-13.00	-17.64	Peak
Test channel:		Middle		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	98.47	-80.04	25.77	1.86	30.52	-82.93	-13.00	-69.93	Peak
2	414.90	-78.80	25.34	4.01	29.83	-79.28	-13.00	-66.28	Peak
3	3454.49	-54.96	40.42	4.98	40.88	-50.44	-13.00	-37.44	Peak
4	4996.69	-57.73	44.50	6.00	40.20	-47.43	-13.00	-34.43	Peak
5	6645.07	-49.37	47.00	7.34	39.28	-34.31	-13.00	-21.31	Peak
6	7045.74	-49.13	47.65	7.37	39.51	-33.62	-13.00	-20.62	Peak

Test channel:		High		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	267.33	-73.60	22.89	3.17	30.29	-77.83	-13.00	-64.83	Peak
2	567.36	-77.73	26.27	4.77	29.68	-76.37	-13.00	-63.37	Peak
3	3480.97	-51.86	40.74	5.03	40.91	-47.00	-13.00	-34.00	Peak
4	4996.69	-58.10	44.35	6.00	40.20	-47.95	-13.00	-34.95	Peak
5	6645.07	-53.42	46.54	7.34	39.28	-38.82	-13.00	-25.82	Peak
6	7045.74	-48.93	47.70	7.37	39.51	-33.37	-13.00	-20.37	Peak
Test channel:		High		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	91.78	-79.30	25.86	1.80	30.67	-82.31	-13.00	-69.31	Peak
2	253.59	-74.49	20.96	3.07	29.94	-80.40	-13.00	-67.40	Peak
3	3480.97	-56.71	40.83	5.03	40.91	-51.76	-13.00	-38.76	Peak
4	4996.69	-56.80	44.50	6.00	40.20	-46.50	-13.00	-33.50	Peak
5	6645.07	-48.54	47.00	7.34	39.28	-33.48	-13.00	-20.48	Peak
6	7045.74	-50.17	47.65	7.37	39.51	-34.66	-13.00	-21.66	Peak

LTE Band 12									
Test channel:		Low		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	44.64	-97.27	25.69	1.22	0.00	-70.36	-13.00	-57.36	Peak
2	411.99	-95.22	25.76	4.00	0.00	-65.46	-13.00	-52.46	Peak
3	1399.35	-20.88	37.16	3.07	41.31	-21.96	-13.00	-8.96	Peak
4	2097.51	-26.75	40.04	3.80	41.10	-24.01	-13.00	-11.01	Peak
5	2796.57	-36.17	40.70	4.34	41.09	-32.22	-13.00	-19.22	Peak
6	3498.74	-37.78	40.99	5.07	40.93	-32.65	-13.00	-19.65	Peak
Test channel:		Low		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	102.36	-95.59	25.43	1.89	0.00	-68.27	-13.00	-55.27	Peak
2	417.82	-94.50	25.36	4.03	0.00	-65.11	-13.00	-52.11	Peak
3	1399.35	-31.99	37.76	3.07	41.31	-32.47	-13.00	-19.47	Peak
4	2097.51	-27.88	40.02	3.80	41.10	-25.16	-13.00	-12.16	Peak
5	2796.57	-39.28	40.65	4.34	41.09	-35.38	-13.00	-22.38	Peak
6	6645.07	-47.49	47.00	7.34	39.28	-32.43	-13.00	-19.43	Peak

Test channel:		Middle		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-95.54	27.43	1.16	0.00	-66.95	-13.00	-53.95	Peak
2	453.02	-94.83	25.92	4.22	0.00	-64.69	-13.00	-51.69	Peak
3	1406.50	-17.22	37.12	3.09	41.30	-18.31	-13.00	-5.31	Peak
4	2108.21	-24.06	40.14	3.82	41.10	-21.20	-13.00	-8.20	Peak
5	2810.85	-29.29	40.75	4.36	41.08	-25.26	-13.00	-12.26	Peak
6	4223.95	-40.36	42.36	5.75	40.41	-32.66	-13.00	-19.66	Peak
Test channel:		Middle		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	97.78	-94.09	25.78	1.85	0.00	-66.46	-13.00	-53.46	Peak
2	396.36	-91.19	25.17	3.93	0.00	-62.09	-13.00	-49.09	Peak
3	1406.50	-31.14	37.76	3.09	41.30	-31.59	-13.00	-18.59	Peak
4	2108.21	-33.50	40.20	3.82	41.10	-30.58	-13.00	-17.58	Peak
5	2810.85	-34.05	40.70	4.36	41.08	-30.07	-13.00	-17.07	Peak
6	6645.07	-48.66	47.00	7.34	39.28	-33.60	-13.00	-20.60	Peak

Test channel:		High		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-97.45	27.43	1.16	0.00	-68.86	-13.00	-55.86	Peak
2	422.26	-94.16	25.99	4.05	0.00	-64.12	-13.00	-51.12	Peak
3	1413.67	-20.68	37.07	3.09	41.31	-21.83	-13.00	-8.83	Peak
4	2118.97	-35.12	40.24	3.84	41.10	-32.14	-13.00	-19.14	Peak
5	2825.19	-40.37	40.77	4.38	41.07	-36.29	-13.00	-23.29	Peak
6	4245.51	-49.06	42.43	5.78	40.45	-41.30	-13.00	-28.30	Peak
Test channel:		High		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	89.87	-94.47	25.83	1.78	0.00	-66.86	-13.00	-53.86	Peak
2	399.15	-89.21	25.23	3.94	0.00	-60.04	-13.00	-47.04	Peak
3	1413.67	-32.57	37.76	3.09	41.31	-33.03	-13.00	-20.03	Peak
4	2118.97	-41.91	40.38	3.84	41.10	-38.79	-13.00	-25.79	Peak
5	4245.51	-55.33	42.64	5.78	40.45	-47.36	-13.00	-34.36	Peak
6	6645.07	-47.93	47.00	7.34	39.28	-32.87	-13.00	-19.87	Peak

LTE Band 13									
Test channel:		Low		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	39.75	-96.63	27.74	1.15	0.00	-67.74	-13.00	-54.74	Peak
2	438.91	-93.82	26.04	4.14	0.00	-63.64	-13.00	-50.64	Peak
3	1553.29	-23.63	36.23	3.26	41.69	-25.83	-13.00	-12.83	Peak
4	2334.18	-34.96	40.19	3.99	41.16	-31.94	-13.00	-18.94	Peak
5	3112.13	-33.70	41.23	4.61	40.87	-28.73	-13.00	-15.73	Peak
6	6645.07	-54.31	46.54	7.34	39.28	-39.71	-13.00	-26.71	Peak
Test channel:		Low		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	100.57	-93.38	25.67	1.88	0.00	-65.83	-13.00	-52.83	Peak
2	646.20	-93.99	28.37	5.13	0.00	-60.49	-13.00	-47.49	Peak
3	1553.29	-32.76	37.76	3.26	41.69	-33.43	-13.00	-20.43	Peak
4	2334.18	-44.92	40.09	3.99	41.16	-42.00	-13.00	-29.00	Peak
5	3112.13	-40.98	41.28	4.61	40.87	-35.96	-13.00	-22.96	Peak
6	6645.07	-48.50	47.00	7.34	39.28	-33.44	-13.00	-20.44	Peak

Test channel:		Middle		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	43.71	-97.34	26.09	1.21	0.00	-70.04	-13.00	-57.04	Peak
2	413.44	-94.74	25.80	4.01	0.00	-64.93	-13.00	-51.93	Peak
3	1553.29	-22.81	36.23	3.26	41.69	-25.01	-13.00	-12.01	Peak
4	2334.18	-36.41	40.19	3.99	41.16	-33.39	-13.00	-20.39	Peak
5	3112.13	-39.39	41.23	4.61	40.87	-34.42	-13.00	-21.42	Peak
6	7045.74	-50.39	47.70	7.37	39.51	-34.83	-13.00	-21.83	Peak
Test channel:		Middle		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	96.76	-95.96	25.79	1.84	0.00	-68.33	-13.00	-55.33	Peak
2	392.20	-94.49	25.08	3.90	0.00	-65.51	-13.00	-52.51	Peak
3	1553.29	-35.26	37.76	3.26	41.69	-35.93	-13.00	-22.93	Peak
4	2334.18	-44.04	40.09	3.99	41.16	-41.12	-13.00	-28.12	Peak
5	3112.13	-44.98	41.28	4.61	40.87	-39.96	-13.00	-26.96	Peak
6	6645.07	-46.59	47.00	7.34	39.28	-31.53	-13.00	-18.53	Peak

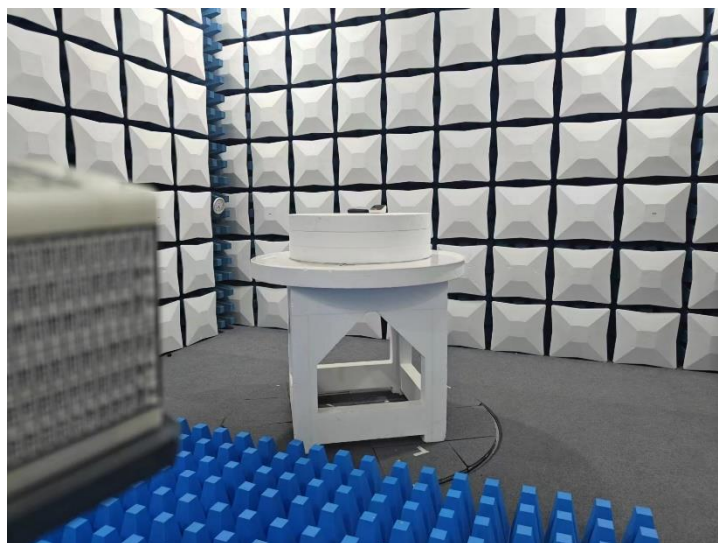
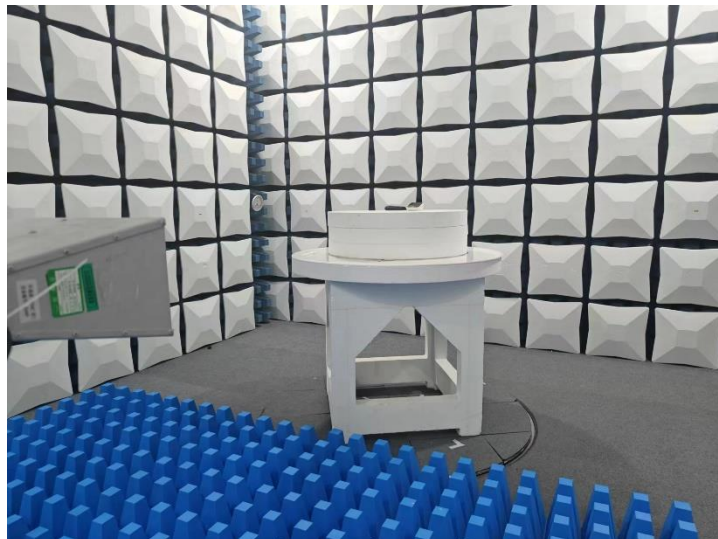
Test channel:		High		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.74	-96.10	27.43	1.16	0.00	-67.51	-13.00	-54.51	Peak
2	617.32	-96.07	28.23	5.00	0.00	-62.84	-13.00	-49.84	Peak
3	1565.20	-18.77	36.16	3.28	41.66	-20.99	-13.00	-7.99	Peak
4	2346.10	-36.83	40.12	4.01	41.15	-33.85	-13.00	-20.85	Peak
5	3128.01	-34.62	41.25	4.64	40.86	-29.59	-13.00	-16.59	Peak
6	4700.57	-46.25	43.56	5.86	40.33	-37.16	-13.00	-24.16	Peak
Test channel:		High		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	105.28	-94.78	25.04	1.92	0.00	-67.82	-13.00	-54.82	Peak
2	434.30	-94.97	25.54	4.12	0.00	-65.31	-13.00	-52.31	Peak
3	1565.20	-29.03	37.76	3.28	41.66	-29.65	-13.00	-16.65	Peak
4	2346.10	-49.37	39.95	4.01	41.15	-46.56	-13.00	-33.56	Peak
5	3128.01	-45.06	41.32	4.64	40.86	-39.96	-13.00	-26.96	Peak
6	6645.07	-49.00	47.00	7.34	39.28	-33.94	-13.00	-20.94	Peak

LTE Band 25									
Test channel:		Low		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	759.66	-74.45	29.15	5.61	29.35	-69.04	-13.00	-56.04	Peak
2	948.05	-59.78	29.40	6.37	28.98	-52.99	-13.00	-39.99	Peak
3	3700.26	-51.63	42.29	5.22	40.76	-44.88	-13.00	-31.88	Peak
4	4996.69	-58.02	44.35	6.00	40.20	-47.87	-13.00	-34.87	Peak
5	6001.77	-53.59	44.56	6.70	39.23	-41.56	-13.00	-28.56	Peak
6	6628.18	-50.76	46.52	7.31	39.28	-36.21	-13.00	-23.21	Peak
Test channel:		Low		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	369.44	-75.54	24.52	3.77	30.11	-77.36	-13.00	-64.36	Peak
2	948.05	-61.65	29.13	6.37	28.98	-55.13	-13.00	-42.13	Peak
3	3700.26	-54.26	42.32	5.22	40.76	-47.48	-13.00	-34.48	Peak
4	4996.69	-59.02	44.50	6.00	40.20	-48.72	-13.00	-35.72	Peak
5	6628.18	-45.68	46.96	7.31	39.28	-30.69	-13.00	-17.69	Peak
6	7508.69	-60.54	48.40	7.79	39.93	-44.28	-13.00	-31.28	Peak

Test channel:		Middle		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	759.66	-73.20	29.15	5.61	29.35	-67.79	-13.00	-54.79	Peak
2	948.05	-66.16	29.40	6.37	28.98	-59.37	-13.00	-46.37	Peak
3	3747.66	-40.42	42.24	5.24	40.68	-33.62	-13.00	-20.62	Peak
4	5631.73	-51.16	43.77	6.54	39.53	-40.38	-13.00	-27.38	Peak
5	6628.18	-51.82	46.52	7.31	39.28	-37.27	-13.00	-24.27	Peak
6	12524.82	-60.26	52.77	10.14	40.97	-38.32	-13.00	-25.32	Peak
Test channel:		Middle		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	765.02	-69.37	29.11	5.64	29.34	-63.96	-13.00	-50.96	Peak
2	948.05	-60.98	29.13	6.37	28.98	-54.46	-13.00	-41.46	Peak
3	3747.66	-42.65	42.17	5.24	40.68	-35.92	-13.00	-22.92	Peak
4	4996.69	-56.29	44.50	6.00	40.20	-45.99	-13.00	-32.99	Peak
5	5631.73	-50.94	43.94	6.54	39.53	-39.99	-13.00	-26.99	Peak
6	6628.18	-45.29	46.96	7.31	39.28	-30.30	-13.00	-17.30	Peak

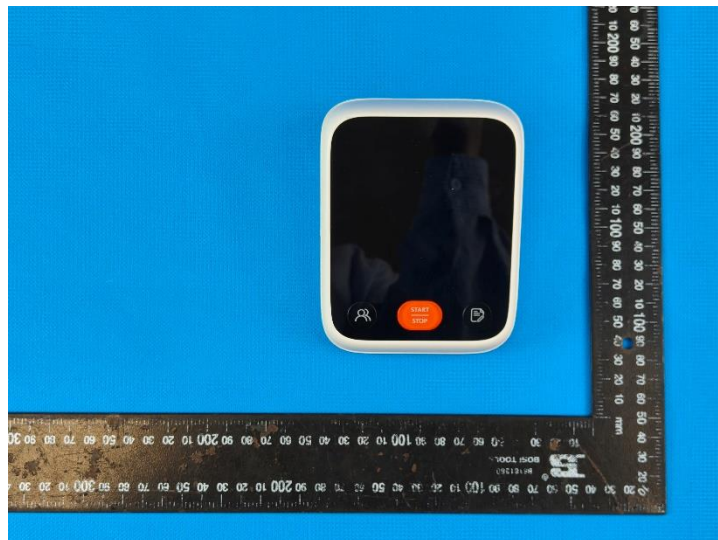
Test channel:		High		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	765.02	-70.77	29.30	5.64	29.34	-65.17	-13.00	-52.17	Peak
2	948.05	-58.66	29.40	6.37	28.98	-51.87	-13.00	-38.87	Peak
3	3795.66	-56.21	42.19	5.26	40.60	-49.36	-13.00	-36.36	Peak
4	4996.69	-56.75	44.35	6.00	40.20	-46.60	-13.00	-33.60	Peak
5	6628.18	-49.85	46.52	7.31	39.28	-35.30	-13.00	-22.30	Peak
6	8506.17	-56.53	47.21	8.24	40.20	-41.28	-13.00	-28.28	Peak
Test channel:		High		Polarization:			Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	369.44	-74.28	24.52	3.77	30.11	-76.10	-13.00	-63.10	Peak
2	948.05	-62.93	29.13	6.37	28.98	-56.41	-13.00	-43.41	Peak
3	3795.66	-58.44	42.03	5.26	40.60	-51.75	-13.00	-38.75	Peak
4	4996.69	-56.57	44.50	6.00	40.20	-46.27	-13.00	-33.27	Peak
5	6001.77	-52.23	44.76	6.70	39.23	-40.00	-13.00	-27.00	Peak
6	6628.18	-46.87	46.96	7.31	39.28	-31.88	-13.00	-18.88	Peak

6. TEST SETUP PHOTOS OF THE EUT

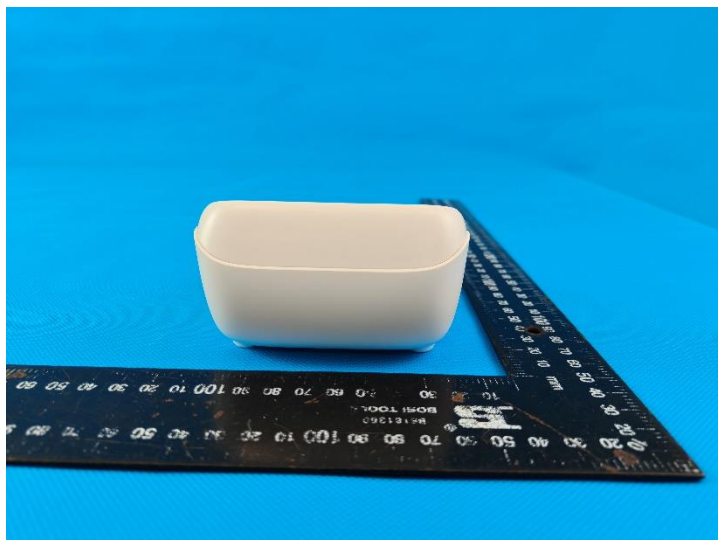


7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

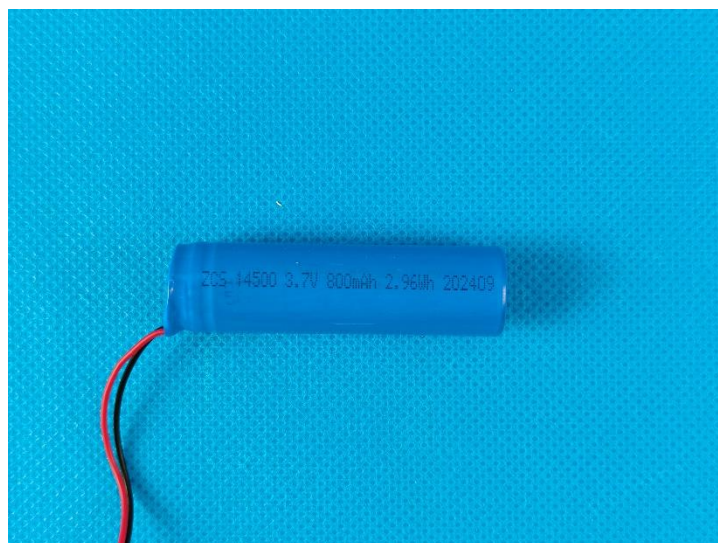
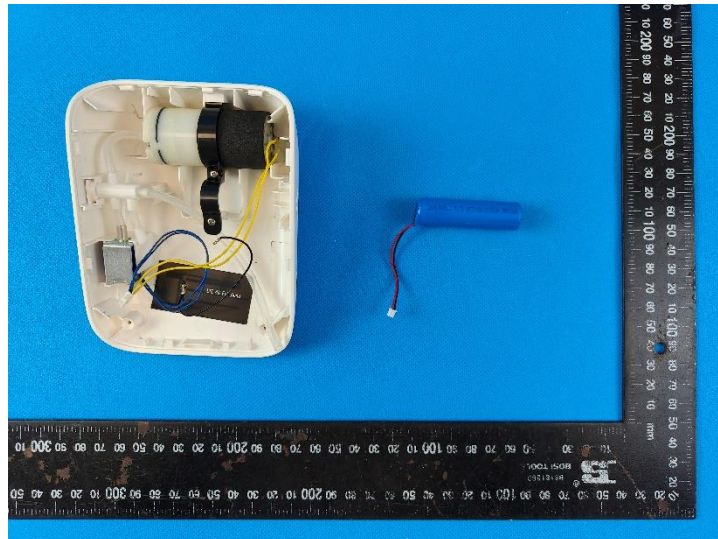
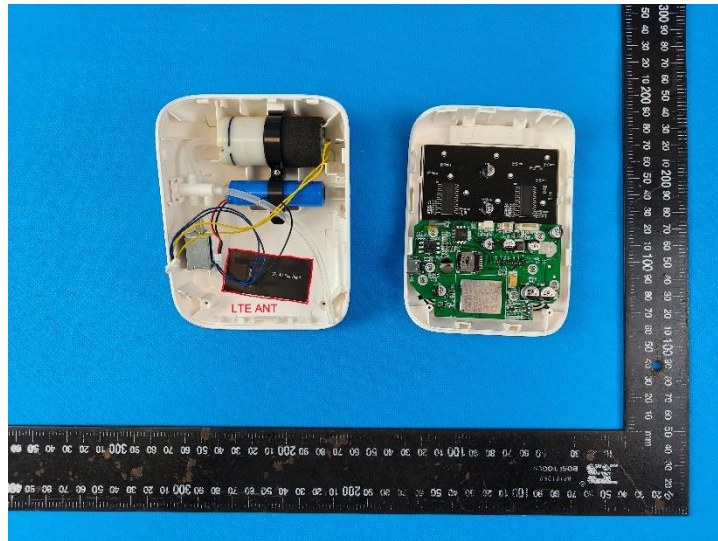
7.1. External photos

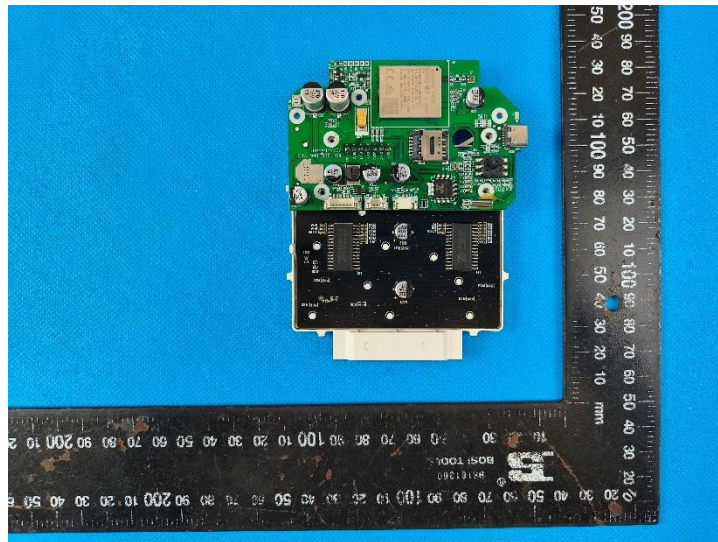
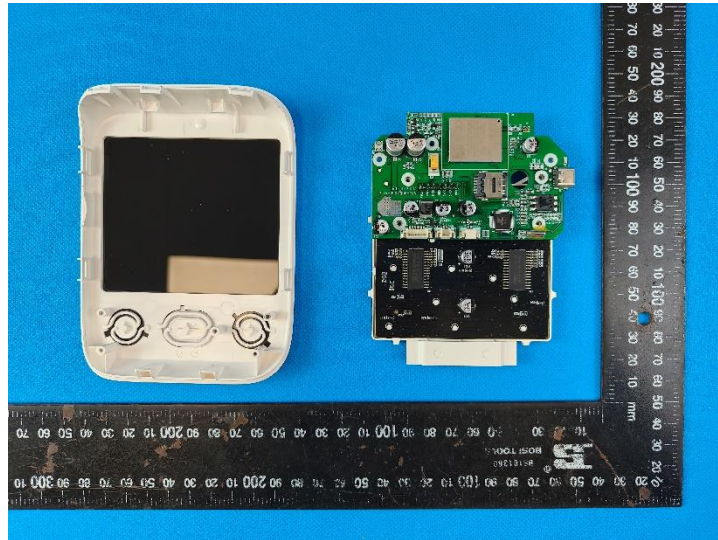


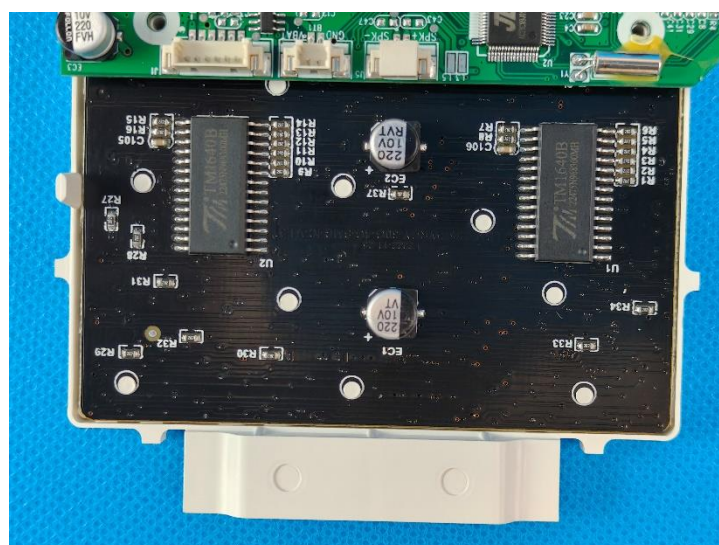
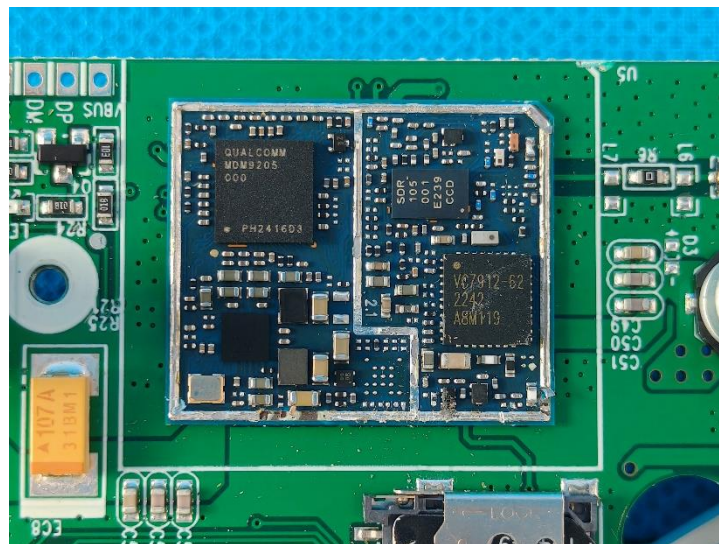
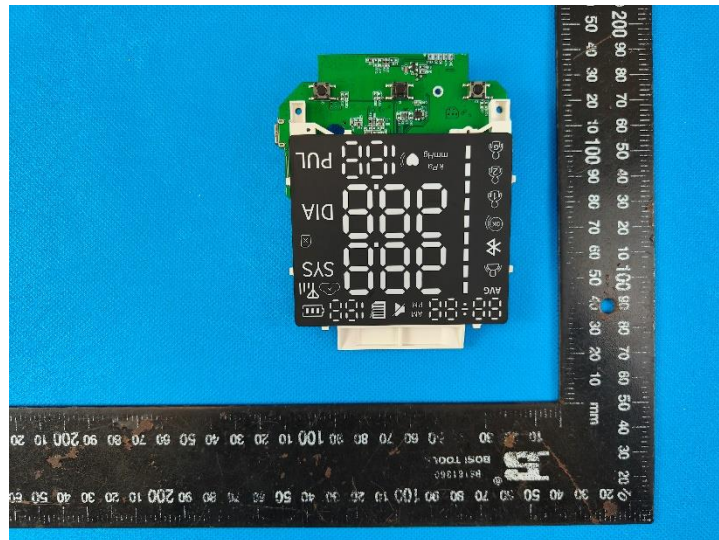




7.2. Internal photos







8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2409050501W	Radio Specification	LTE Cat M
Test sample No.	YPHT24090505004	Model No.	ARM-90B
Start test date	2024-10-21	Finish date	2024-11-08
Temperature	24.5℃	Humidity	51%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Conducted Output Power	PASS
B	Peak-to-Average Ratio	PASS
C	26 dB Bandwidth and Occupied Bandwidth	PASS
D	Band edge	PASS
E	Conducted Spurious Emission	PASS
F	Frequency Stability	PASS
G	ERP and EIRP	PASS

8.1 Appendix A: Conducted Output Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1	0	20.46	PASS
Band12	1.4MHz	QPSK	23017	1	5	20.34	PASS
Band12	1.4MHz	QPSK	23017	6	0	18.11	PASS
Band12	1.4MHz	QPSK	23095	1	0	19.98	PASS
Band12	1.4MHz	QPSK	23095	1	5	19.89	PASS
Band12	1.4MHz	QPSK	23095	6	0	18.07	PASS
Band12	1.4MHz	QPSK	23173	1	0	20.52	PASS
Band12	1.4MHz	QPSK	23173	1	5	20.32	PASS
Band12	1.4MHz	QPSK	23173	6	0	18.06	PASS
Band12	1.4MHz	16QAM	23017	1	0	19.21	PASS
Band12	1.4MHz	16QAM	23017	1	5	19.07	PASS
Band12	1.4MHz	16QAM	23017	6	0	18.11	PASS
Band12	1.4MHz	16QAM	23095	1	0	19.36	PASS
Band12	1.4MHz	16QAM	23095	1	5	19.31	PASS
Band12	1.4MHz	16QAM	23095	6	0	17.99	PASS
Band12	1.4MHz	16QAM	23173	1	0	18.91	PASS
Band12	1.4MHz	16QAM	23173	1	5	19.11	PASS
Band12	1.4MHz	16QAM	23173	6	0	18.15	PASS
Band12	3MHz	QPSK	23025	1	0	22.15	PASS
Band12	3MHz	QPSK	23025	1	5	22.16	PASS
Band12	3MHz	QPSK	23025	6	0	19.81	PASS
Band12	3MHz	QPSK	23095	1	0	22.08	PASS
Band12	3MHz	QPSK	23095	1	5	21.97	PASS
Band12	3MHz	QPSK	23095	6	0	19.79	PASS
Band12	3MHz	QPSK	23165	1	0	22.12	PASS
Band12	3MHz	QPSK	23165	1	5	21.98	PASS
Band12	3MHz	QPSK	23165	6	0	19.86	PASS
Band12	3MHz	16QAM	23025	1	0	20.77	PASS
Band12	3MHz	16QAM	23025	1	5	20.78	PASS
Band12	3MHz	16QAM	23025	6	0	19.81	PASS
Band12	3MHz	16QAM	23095	1	0	20.88	PASS
Band12	3MHz	16QAM	23095	1	5	20.81	PASS
Band12	3MHz	16QAM	23095	6	0	19.79	PASS
Band12	3MHz	16QAM	23165	1	0	20.38	PASS
Band12	3MHz	16QAM	23165	1	5	20.53	PASS
Band12	3MHz	16QAM	23165	6	0	19.66	PASS
Band12	5MHz	QPSK	23035	1	0	20.79	PASS
Band12	5MHz	QPSK	23035	1	5	20.66	PASS
Band12	5MHz	QPSK	23035	6	0	19.65	PASS

Band12	5MHz	QPSK	23095	1	0	20.87	PASS
Band12	5MHz	QPSK	23095	1	5	20.78	PASS
Band12	5MHz	QPSK	23095	6	0	19.60	PASS
Band12	5MHz	QPSK	23155	1	0	22.12	PASS
Band12	5MHz	QPSK	23155	1	5	22.09	PASS
Band12	5MHz	QPSK	23155	6	0	21.00	PASS
Band12	5MHz	16QAM	23035	1	0	20.79	PASS
Band12	5MHz	16QAM	23035	1	5	20.62	PASS
Band12	5MHz	16QAM	23035	6	0	19.66	PASS
Band12	5MHz	16QAM	23095	1	0	20.82	PASS
Band12	5MHz	16QAM	23095	1	5	20.47	PASS
Band12	5MHz	16QAM	23095	6	0	19.68	PASS
Band12	5MHz	16QAM	23155	1	0	22.07	PASS
Band12	5MHz	16QAM	23155	1	5	22.07	PASS
Band12	5MHz	16QAM	23155	6	0	20.98	PASS
Band12	10MHz	QPSK	23060	1	0	21.03	PASS
Band12	10MHz	QPSK	23060	1	5	20.84	PASS
Band12	10MHz	QPSK	23060	6	0	19.64	PASS
Band12	10MHz	QPSK	23095	1	0	21.03	PASS
Band12	10MHz	QPSK	23095	1	5	20.94	PASS
Band12	10MHz	QPSK	23095	6	0	19.80	PASS
Band12	10MHz	QPSK	23130	1	0	20.89	PASS
Band12	10MHz	QPSK	23130	1	5	20.92	PASS
Band12	10MHz	QPSK	23130	6	0	19.54	PASS
Band12	10MHz	16QAM	23060	1	0	20.88	PASS
Band12	10MHz	16QAM	23060	1	5	20.73	PASS
Band12	10MHz	16QAM	23060	6	0	19.71	PASS
Band12	10MHz	16QAM	23095	1	0	20.86	PASS
Band12	10MHz	16QAM	23095	1	5	20.71	PASS
Band12	10MHz	16QAM	23095	6	0	19.70	PASS
Band12	10MHz	16QAM	23130	1	0	20.74	PASS
Band12	10MHz	16QAM	23130	1	5	20.69	PASS
Band12	10MHz	16QAM	23130	6	0	19.56	PASS
Band13	5MHz	QPSK	23205	1	0	21.43	PASS
Band13	5MHz	QPSK	23205	1	5	20.92	PASS
Band13	5MHz	QPSK	23205	6	0	20.01	PASS
Band13	5MHz	QPSK	23230	1	0	21.30	PASS
Band13	5MHz	QPSK	23230	1	5	20.95	PASS
Band13	5MHz	QPSK	23230	6	0	19.94	PASS
Band13	5MHz	QPSK	23255	1	0	21.04	PASS
Band13	5MHz	QPSK	23255	1	5	20.76	PASS
Band13	5MHz	QPSK	23255	6	0	19.83	PASS
Band13	5MHz	16QAM	23205	1	0	20.83	PASS
Band13	5MHz	16QAM	23205	1	5	20.56	PASS
Band13	5MHz	16QAM	23205	6	0	20.14	PASS

Band13	5MHz	16QAM	23230	1	0	20.80	PASS
Band13	5MHz	16QAM	23230	1	5	20.59	PASS
Band13	5MHz	16QAM	23230	6	0	19.93	PASS
Band13	5MHz	16QAM	23255	1	0	20.80	PASS
Band13	5MHz	16QAM	23255	1	5	20.62	PASS
Band13	5MHz	16QAM	23255	6	0	19.92	PASS
Band13	10MHz	QPSK	23230	1	0	20.67	PASS
Band13	10MHz	QPSK	23230	1	5	20.34	PASS
Band13	10MHz	QPSK	23230	6	0	19.64	PASS
Band13	10MHz	16QAM	23230	1	0	20.42	PASS
Band13	10MHz	16QAM	23230	1	5	19.97	PASS
Band13	10MHz	16QAM	23230	6	0	19.78	PASS
Band2	1.4MHz	QPSK	18607	1	0	19.60	PASS
Band2	1.4MHz	QPSK	18607	1	5	19.59	PASS
Band2	1.4MHz	QPSK	18607	6	0	17.38	PASS
Band2	1.4MHz	QPSK	18900	1	0	19.81	PASS
Band2	1.4MHz	QPSK	18900	1	5	19.67	PASS
Band2	1.4MHz	QPSK	18900	6	0	17.29	PASS
Band2	1.4MHz	QPSK	19193	1	0	19.78	PASS
Band2	1.4MHz	QPSK	19193	1	5	19.53	PASS
Band2	1.4MHz	QPSK	19193	6	0	17.23	PASS
Band2	1.4MHz	16QAM	18607	1	0	18.54	PASS
Band2	1.4MHz	16QAM	18607	1	5	18.21	PASS
Band2	1.4MHz	16QAM	18607	6	0	17.47	PASS
Band2	1.4MHz	16QAM	18900	1	0	18.38	PASS
Band2	1.4MHz	16QAM	18900	1	5	18.13	PASS
Band2	1.4MHz	16QAM	18900	6	0	17.34	PASS
Band2	1.4MHz	16QAM	19193	1	0	18.71	PASS
Band2	1.4MHz	16QAM	19193	1	5	18.34	PASS
Band2	1.4MHz	16QAM	19193	6	0	17.12	PASS
Band2	3MHz	QPSK	18615	1	0	19.56	PASS
Band2	3MHz	QPSK	18615	1	5	19.63	PASS
Band2	3MHz	QPSK	18615	6	0	17.52	PASS
Band2	3MHz	QPSK	18900	1	0	19.60	PASS
Band2	3MHz	QPSK	18900	1	5	19.38	PASS
Band2	3MHz	QPSK	18900	6	0	17.13	PASS
Band2	3MHz	QPSK	19185	1	0	19.59	PASS
Band2	3MHz	QPSK	19185	1	5	19.62	PASS
Band2	3MHz	QPSK	19185	6	0	17.23	PASS
Band2	3MHz	16QAM	18615	1	0	19.55	PASS
Band2	3MHz	16QAM	18615	1	5	19.67	PASS
Band2	3MHz	16QAM	18615	6	0	17.12	PASS
Band2	3MHz	16QAM	18900	1	0	18.04	PASS
Band2	3MHz	16QAM	18900	1	5	17.99	PASS
Band2	3MHz	16QAM	18900	6	0	17.14	PASS

Band2	3MHz	16QAM	19185	1	0	18.11	PASS
Band2	3MHz	16QAM	19185	1	5	17.96	PASS
Band2	3MHz	16QAM	19185	6	0	17.56	PASS
Band2	5MHz	QPSK	18625	1	0	19.28	PASS
Band2	5MHz	QPSK	18625	1	5	19.16	PASS
Band2	5MHz	QPSK	18625	6	0	18.11	PASS
Band2	5MHz	QPSK	18900	1	0	19.43	PASS
Band2	5MHz	QPSK	18900	1	5	19.29	PASS
Band2	5MHz	QPSK	18900	6	0	18.11	PASS
Band2	5MHz	QPSK	19175	1	0	19.67	PASS
Band2	5MHz	QPSK	19175	1	5	19.57	PASS
Band2	5MHz	QPSK	19175	6	0	18.35	PASS
Band2	5MHz	16QAM	18625	1	0	19.39	PASS
Band2	5MHz	16QAM	18625	1	5	19.28	PASS
Band2	5MHz	16QAM	18625	6	0	18.11	PASS
Band2	5MHz	16QAM	18900	1	0	19.43	PASS
Band2	5MHz	16QAM	18900	1	5	19.25	PASS
Band2	5MHz	16QAM	18900	6	0	18.11	PASS
Band2	5MHz	16QAM	19175	1	0	19.79	PASS
Band2	5MHz	16QAM	19175	1	5	19.55	PASS
Band2	5MHz	16QAM	19175	6	0	18.36	PASS
Band2	10MHz	QPSK	18650	1	0	19.41	PASS
Band2	10MHz	QPSK	18650	1	5	19.28	PASS
Band2	10MHz	QPSK	18650	6	0	18.14	PASS
Band2	10MHz	QPSK	18900	1	0	19.36	PASS
Band2	10MHz	QPSK	18900	1	5	19.11	PASS
Band2	10MHz	QPSK	18900	6	0	18.15	PASS
Band2	10MHz	QPSK	19150	1	0	19.80	PASS
Band2	10MHz	QPSK	19150	1	5	19.44	PASS
Band2	10MHz	QPSK	19150	6	0	18.30	PASS
Band2	10MHz	16QAM	18650	1	0	19.43	PASS
Band2	10MHz	16QAM	18650	1	5	19.27	PASS
Band2	10MHz	16QAM	18650	6	0	18.13	PASS
Band2	10MHz	16QAM	18900	1	0	19.38	PASS
Band2	10MHz	16QAM	18900	1	5	19.30	PASS
Band2	10MHz	16QAM	18900	6	0	18.13	PASS
Band2	10MHz	16QAM	19150	1	0	19.63	PASS
Band2	10MHz	16QAM	19150	1	5	19.49	PASS
Band2	10MHz	16QAM	19150	6	0	18.30	PASS
Band2	15MHz	QPSK	18675	1	0	19.34	PASS
Band2	15MHz	QPSK	18675	1	5	19.06	PASS
Band2	15MHz	QPSK	18675	6	0	19.19	PASS
Band2	15MHz	QPSK	18900	1	0	19.34	PASS
Band2	15MHz	QPSK	18900	1	5	19.09	PASS
Band2	15MHz	QPSK	18900	6	0	19.20	PASS

Band2	15MHz	QPSK	19125	1	0	19.68	PASS
Band2	15MHz	QPSK	19125	1	5	19.42	PASS
Band2	15MHz	QPSK	19125	6	0	19.39	PASS
Band2	15MHz	16QAM	18675	1	0	19.45	PASS
Band2	15MHz	16QAM	18675	1	5	19.30	PASS
Band2	15MHz	16QAM	18675	6	0	19.18	PASS
Band2	15MHz	16QAM	18900	1	0	19.52	PASS
Band2	15MHz	16QAM	18900	1	5	19.31	PASS
Band2	15MHz	16QAM	18900	6	0	19.19	PASS
Band2	15MHz	16QAM	19125	1	0	19.73	PASS
Band2	15MHz	16QAM	19125	1	5	19.48	PASS
Band2	15MHz	16QAM	19125	6	0	19.45	PASS
Band2	20MHz	QPSK	18700	1	0	20.60	PASS
Band2	20MHz	QPSK	18700	1	5	20.38	PASS
Band2	20MHz	QPSK	18700	6	0	20.50	PASS
Band2	20MHz	QPSK	18900	1	0	20.66	PASS
Band2	20MHz	QPSK	18900	1	5	20.28	PASS
Band2	20MHz	QPSK	18900	6	0	20.39	PASS
Band2	20MHz	QPSK	19100	1	0	20.79	PASS
Band2	20MHz	QPSK	19100	1	5	20.58	PASS
Band2	20MHz	QPSK	19100	6	0	20.60	PASS
Band2	20MHz	16QAM	18700	1	0	20.93	PASS
Band2	20MHz	16QAM	18700	1	5	20.58	PASS
Band2	20MHz	16QAM	18700	6	0	20.59	PASS
Band2	20MHz	16QAM	18900	1	0	20.81	PASS
Band2	20MHz	16QAM	18900	1	5	20.64	PASS
Band2	20MHz	16QAM	18900	6	0	20.34	PASS
Band2	20MHz	16QAM	19100	1	0	20.97	PASS
Band2	20MHz	16QAM	19100	1	5	20.54	PASS
Band2	20MHz	16QAM	19100	6	0	20.59	PASS
Band4	1.4MHz	QPSK	19957	1	0	20.13	PASS
Band4	1.4MHz	QPSK	19957	1	5	20.01	PASS
Band4	1.4MHz	QPSK	19957	6	0	17.92	PASS
Band4	1.4MHz	QPSK	20175	1	0	20.09	PASS
Band4	1.4MHz	QPSK	20175	1	5	19.63	PASS
Band4	1.4MHz	QPSK	20175	6	0	17.62	PASS
Band4	1.4MHz	QPSK	20393	1	0	19.96	PASS
Band4	1.4MHz	QPSK	20393	1	5	19.83	PASS
Band4	1.4MHz	QPSK	20393	6	0	17.98	PASS
Band4	1.4MHz	16QAM	19957	1	0	18.72	PASS
Band4	1.4MHz	16QAM	19957	1	5	18.55	PASS
Band4	1.4MHz	16QAM	19957	6	0	17.92	PASS
Band4	1.4MHz	16QAM	20175	1	0	18.79	PASS
Band4	1.4MHz	16QAM	20175	1	5	18.70	PASS
Band4	1.4MHz	16QAM	20175	6	0	17.61	PASS

Band4	1.4MHz	16QAM	20393	1	0	19.03	PASS
Band4	1.4MHz	16QAM	20393	1	5	18.90	PASS
Band4	1.4MHz	16QAM	20393	6	0	17.98	PASS
Band4	3MHz	QPSK	19965	1	0	20.08	PASS
Band4	3MHz	QPSK	19965	1	5	19.82	PASS
Band4	3MHz	QPSK	19965	6	0	17.95	PASS
Band4	3MHz	QPSK	20175	1	0	20.00	PASS
Band4	3MHz	QPSK	20175	1	5	19.77	PASS
Band4	3MHz	QPSK	20175	6	0	17.61	PASS
Band4	3MHz	QPSK	20385	1	0	20.16	PASS
Band4	3MHz	QPSK	20385	1	5	20.11	PASS
Band4	3MHz	QPSK	20385	6	0	17.99	PASS
Band4	3MHz	16QAM	19965	1	0	19.08	PASS
Band4	3MHz	16QAM	19965	1	5	18.91	PASS
Band4	3MHz	16QAM	19965	6	0	17.87	PASS
Band4	3MHz	16QAM	20175	1	0	18.87	PASS
Band4	3MHz	16QAM	20175	1	5	18.68	PASS
Band4	3MHz	16QAM	20175	6	0	17.62	PASS
Band4	3MHz	16QAM	20385	1	0	18.71	PASS
Band4	3MHz	16QAM	20385	1	5	18.59	PASS
Band4	3MHz	16QAM	20385	6	0	18.14	PASS
Band4	5MHz	QPSK	19975	1	0	19.88	PASS
Band4	5MHz	QPSK	19975	1	5	19.78	PASS
Band4	5MHz	QPSK	19975	6	0	18.82	PASS
Band4	5MHz	QPSK	20175	1	0	19.92	PASS
Band4	5MHz	QPSK	20175	1	5	19.78	PASS
Band4	5MHz	QPSK	20175	6	0	18.67	PASS
Band4	5MHz	QPSK	20375	1	0	20.02	PASS
Band4	5MHz	QPSK	20375	1	5	19.94	PASS
Band4	5MHz	QPSK	20375	6	0	18.83	PASS
Band4	5MHz	16QAM	19975	1	0	20.09	PASS
Band4	5MHz	16QAM	19975	1	5	19.86	PASS
Band4	5MHz	16QAM	19975	6	0	18.91	PASS
Band4	5MHz	16QAM	20175	1	0	20.04	PASS
Band4	5MHz	16QAM	20175	1	5	19.93	PASS
Band4	5MHz	16QAM	20175	6	0	18.67	PASS
Band4	5MHz	16QAM	20375	1	0	20.21	PASS
Band4	5MHz	16QAM	20375	1	5	20.11	PASS
Band4	5MHz	16QAM	20375	6	0	18.92	PASS
Band4	10MHz	QPSK	20000	1	0	20.13	PASS
Band4	10MHz	QPSK	20000	1	5	19.96	PASS
Band4	10MHz	QPSK	20000	6	0	18.93	PASS
Band4	10MHz	QPSK	20175	1	0	20.00	PASS
Band4	10MHz	QPSK	20175	1	5	19.73	PASS
Band4	10MHz	QPSK	20175	6	0	18.77	PASS

Band4	10MHz	QPSK	20350	1	0	20.07	PASS
Band4	10MHz	QPSK	20350	1	5	19.87	PASS
Band4	10MHz	QPSK	20350	6	0	18.85	PASS
Band4	10MHz	16QAM	20000	1	0	19.80	PASS
Band4	10MHz	16QAM	20000	1	5	19.64	PASS
Band4	10MHz	16QAM	20000	6	0	18.92	PASS
Band4	10MHz	16QAM	20175	1	0	20.20	PASS
Band4	10MHz	16QAM	20175	1	5	20.06	PASS
Band4	10MHz	16QAM	20175	6	0	18.76	PASS
Band4	10MHz	16QAM	20350	1	0	20.16	PASS
Band4	10MHz	16QAM	20350	1	5	20.14	PASS
Band4	10MHz	16QAM	20350	6	0	18.85	PASS
Band4	15MHz	QPSK	20025	1	0	20.25	PASS
Band4	15MHz	QPSK	20025	1	5	19.70	PASS
Band4	15MHz	QPSK	20025	6	0	19.99	PASS
Band4	15MHz	QPSK	20175	1	0	19.99	PASS
Band4	15MHz	QPSK	20175	1	5	19.92	PASS
Band4	15MHz	QPSK	20175	6	0	19.76	PASS
Band4	15MHz	QPSK	20325	1	0	20.08	PASS
Band4	15MHz	QPSK	20325	1	5	20.14	PASS
Band4	15MHz	QPSK	20325	6	0	19.80	PASS
Band4	15MHz	16QAM	20025	1	0	19.87	PASS
Band4	15MHz	16QAM	20025	1	5	19.43	PASS
Band4	15MHz	16QAM	20025	6	0	20.02	PASS
Band4	15MHz	16QAM	20175	1	0	20.37	PASS
Band4	15MHz	16QAM	20175	1	5	20.10	PASS
Band4	15MHz	16QAM	20175	6	0	19.75	PASS
Band4	15MHz	16QAM	20325	1	0	20.09	PASS
Band4	15MHz	16QAM	20325	1	5	19.75	PASS
Band4	15MHz	16QAM	20325	6	0	19.87	PASS
Band4	20MHz	QPSK	20050	1	0	20.07	PASS
Band4	20MHz	QPSK	20050	1	5	19.75	PASS
Band4	20MHz	QPSK	20050	6	0	19.92	PASS
Band4	20MHz	QPSK	20175	1	0	20.00	PASS
Band4	20MHz	QPSK	20175	1	5	19.90	PASS
Band4	20MHz	QPSK	20175	6	0	19.78	PASS
Band4	20MHz	QPSK	20300	1	0	19.98	PASS
Band4	20MHz	QPSK	20300	1	5	19.95	PASS
Band4	20MHz	QPSK	20300	6	0	19.91	PASS
Band4	20MHz	16QAM	20050	1	0	19.74	PASS
Band4	20MHz	16QAM	20050	1	5	19.45	PASS
Band4	20MHz	16QAM	20050	6	0	19.95	PASS
Band4	20MHz	16QAM	20175	1	0	20.30	PASS
Band4	20MHz	16QAM	20175	1	5	20.07	PASS
Band4	20MHz	16QAM	20175	6	0	19.77	PASS

Band4	20MHz	16QAM	20300	1	0	20.16	PASS
Band4	20MHz	16QAM	20300	1	5	20.11	PASS
Band4	20MHz	16QAM	20300	6	0	19.89	PASS
Band25	1.4MHz	QPSK	26047	1	0	20.71	PASS
Band25	1.4MHz	QPSK	26047	1	5	20.20	PASS
Band25	1.4MHz	QPSK	26047	6	0	18.19	PASS
Band25	1.4MHz	QPSK	26365	1	0	21.19	PASS
Band25	1.4MHz	QPSK	26365	1	5	20.66	PASS
Band25	1.4MHz	QPSK	26365	6	0	18.61	PASS
Band25	1.4MHz	QPSK	26683	1	0	21.12	PASS
Band25	1.4MHz	QPSK	26683	1	5	20.60	PASS
Band25	1.4MHz	QPSK	26683	6	0	18.55	PASS
Band25	1.4MHz	16QAM	26047	1	0	19.20	PASS
Band25	1.4MHz	16QAM	26047	1	5	19.17	PASS
Band25	1.4MHz	16QAM	26047	6	0	18.21	PASS
Band25	1.4MHz	16QAM	26365	1	0	19.64	PASS
Band25	1.4MHz	16QAM	26365	1	5	19.61	PASS
Band25	1.4MHz	16QAM	26365	6	0	18.63	PASS
Band25	1.4MHz	16QAM	26683	1	0	19.58	PASS
Band25	1.4MHz	16QAM	26683	1	5	19.55	PASS
Band25	1.4MHz	16QAM	26683	6	0	18.57	PASS
Band25	3MHz	QPSK	26055	1	0	18.70	PASS
Band25	3MHz	QPSK	26055	1	5	18.56	PASS
Band25	3MHz	QPSK	26055	6	0	16.34	PASS
Band25	3MHz	QPSK	26365	1	0	19.13	PASS
Band25	3MHz	QPSK	26365	1	5	18.99	PASS
Band25	3MHz	QPSK	26365	6	0	16.72	PASS
Band25	3MHz	QPSK	26675	1	0	19.07	PASS
Band25	3MHz	QPSK	26675	1	5	18.93	PASS
Band25	3MHz	QPSK	26675	6	0	16.67	PASS
Band25	3MHz	16QAM	26055	1	0	17.51	PASS
Band25	3MHz	16QAM	26055	1	5	17.40	PASS
Band25	3MHz	16QAM	26055	6	0	16.51	PASS
Band25	3MHz	16QAM	26365	1	0	17.91	PASS
Band25	3MHz	16QAM	26365	1	5	17.80	PASS
Band25	3MHz	16QAM	26365	6	0	16.89	PASS
Band25	3MHz	16QAM	26675	1	0	17.86	PASS
Band25	3MHz	16QAM	26675	1	5	17.75	PASS
Band25	3MHz	16QAM	26675	6	0	16.84	PASS
Band25	5MHz	QPSK	26065	1	0	18.14	PASS
Band25	5MHz	QPSK	26065	1	5	18.16	PASS
Band25	5MHz	QPSK	26065	6	0	17.08	PASS
Band25	5MHz	QPSK	26365	1	0	18.56	PASS
Band25	5MHz	QPSK	26365	1	5	18.58	PASS
Band25	5MHz	QPSK	26365	6	0	17.47	PASS

Band25	5MHz	QPSK	26665	1	0	18.50	PASS
Band25	5MHz	QPSK	26665	1	5	18.52	PASS
Band25	5MHz	QPSK	26665	6	0	17.42	PASS
Band25	5MHz	16QAM	26065	1	0	18.54	PASS
Band25	5MHz	16QAM	26065	1	5	18.09	PASS
Band25	5MHz	16QAM	26065	6	0	17.08	PASS
Band25	5MHz	16QAM	26365	1	0	18.97	PASS
Band25	5MHz	16QAM	26365	1	5	18.51	PASS
Band25	5MHz	16QAM	26365	6	0	17.47	PASS
Band25	5MHz	16QAM	26665	1	0	18.91	PASS
Band25	5MHz	16QAM	26665	1	5	18.45	PASS
Band25	5MHz	16QAM	26665	6	0	17.42	PASS
Band25	10MHz	QPSK	26090	1	0	20.75	PASS
Band25	10MHz	QPSK	26090	1	5	20.61	PASS
Band25	10MHz	QPSK	26090	6	0	19.65	PASS
Band25	10MHz	QPSK	26365	1	0	21.23	PASS
Band25	10MHz	QPSK	26365	1	5	21.08	PASS
Band25	10MHz	QPSK	26365	6	0	20.10	PASS
Band25	10MHz	QPSK	26640	1	0	21.16	PASS
Band25	10MHz	QPSK	26640	1	5	21.02	PASS
Band25	10MHz	QPSK	26640	6	0	20.04	PASS
Band25	10MHz	16QAM	26090	1	0	20.83	PASS
Band25	10MHz	16QAM	26090	1	5	20.73	PASS
Band25	10MHz	16QAM	26090	6	0	19.65	PASS
Band25	10MHz	16QAM	26365	1	0	21.31	PASS
Band25	10MHz	16QAM	26365	1	5	21.21	PASS
Band25	10MHz	16QAM	26365	6	0	20.10	PASS
Band25	10MHz	16QAM	26640	1	0	21.25	PASS
Band25	10MHz	16QAM	26640	1	5	21.14	PASS
Band25	10MHz	16QAM	26640	6	0	20.04	PASS
Band25	15MHz	QPSK	26115	1	0	19.59	PASS
Band25	15MHz	QPSK	26115	1	5	19.05	PASS
Band25	15MHz	QPSK	26115	6	0	19.33	PASS
Band25	15MHz	QPSK	26365	1	0	20.04	PASS
Band25	15MHz	QPSK	26365	1	5	19.49	PASS
Band25	15MHz	QPSK	26365	6	0	19.77	PASS
Band25	15MHz	QPSK	26615	1	0	19.98	PASS
Band25	15MHz	QPSK	26615	1	5	19.43	PASS
Band25	15MHz	QPSK	26615	6	0	19.72	PASS
Band25	15MHz	16QAM	26115	1	0	19.72	PASS
Band25	15MHz	16QAM	26115	1	5	19.16	PASS
Band25	15MHz	16QAM	26115	6	0	19.36	PASS
Band25	15MHz	16QAM	26365	1	0	20.17	PASS
Band25	15MHz	16QAM	26365	1	5	19.60	PASS
Band25	15MHz	16QAM	26365	6	0	19.81	PASS

Band25	15MHz	16QAM	26615	1	0	20.11	PASS
Band25	15MHz	16QAM	26615	1	5	19.54	PASS
Band25	15MHz	16QAM	26615	6	0	19.75	PASS
Band25	20MHz	QPSK	26140	1	0	20.44	PASS
Band25	20MHz	QPSK	26140	1	5	20.24	PASS
Band25	20MHz	QPSK	26140	6	0	20.37	PASS
Band25	20MHz	QPSK	26365	1	0	20.91	PASS
Band25	20MHz	QPSK	26365	1	5	20.71	PASS
Band25	20MHz	QPSK	26365	6	0	20.84	PASS
Band25	20MHz	QPSK	26590	1	0	20.85	PASS
Band25	20MHz	QPSK	26590	1	5	20.64	PASS
Band25	20MHz	QPSK	26590	6	0	20.78	PASS
Band25	20MHz	16QAM	26140	1	0	20.56	PASS
Band25	20MHz	16QAM	26140	1	5	20.28	PASS
Band25	20MHz	16QAM	26140	6	0	20.36	PASS
Band25	20MHz	16QAM	26365	1	0	21.03	PASS
Band25	20MHz	16QAM	26365	1	5	20.75	PASS
Band25	20MHz	16QAM	26365	6	0	20.83	PASS
Band25	20MHz	16QAM	26590	1	0	20.97	PASS
Band25	20MHz	16QAM	26590	1	5	20.68	PASS
Band25	20MHz	16QAM	26590	6	0	20.77	PASS

8.2 Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1	0	9.01	<=13	PASS
Band12	1.4MHz	QPSK	23017	6	0	8.71	<=13	PASS
Band12	1.4MHz	QPSK	23095	1	0	8.00	<=13	PASS
Band12	1.4MHz	QPSK	23095	6	0	7.69	<=13	PASS
Band12	1.4MHz	QPSK	23173	1	0	9.88	<=13	PASS
Band12	1.4MHz	QPSK	23173	6	0	10.67	<=13	PASS
Band12	1.4MHz	16QAM	23017	1	0	9.75	<=13	PASS
Band12	1.4MHz	16QAM	23017	6	0	9.49	<=13	PASS
Band12	1.4MHz	16QAM	23095	1	0	8.99	<=13	PASS
Band12	1.4MHz	16QAM	23095	6	0	11.26	<=13	PASS
Band12	1.4MHz	16QAM	23173	1	0	12.08	<=13	PASS
Band12	1.4MHz	16QAM	23173	6	0	11.66	<=13	PASS
Band12	3MHz	QPSK	23025	1	0	8.99	<=13	PASS
Band12	3MHz	QPSK	23025	6	0	11.96	<=13	PASS
Band12	3MHz	QPSK	23095	1	0	9.25	<=13	PASS
Band12	3MHz	QPSK	23095	6	0	10.57	<=13	PASS
Band12	3MHz	QPSK	23165	1	0	11.14	<=13	PASS
Band12	3MHz	QPSK	23165	6	0	8.91	<=13	PASS
Band12	3MHz	16QAM	23025	1	0	11.52	<=13	PASS
Band12	3MHz	16QAM	23025	6	0	11.71	<=13	PASS
Band12	3MHz	16QAM	23095	1	0	9.64	<=13	PASS
Band12	3MHz	16QAM	23095	6	0	9.00	<=13	PASS
Band12	3MHz	16QAM	23165	1	0	9.67	<=13	PASS
Band12	3MHz	16QAM	23165	6	0	9.09	<=13	PASS
Band12	5MHz	QPSK	23035	1	0	9.93	<=13	PASS
Band12	5MHz	QPSK	23035	6	0	9.38	<=13	PASS
Band12	5MHz	QPSK	23095	1	0	11.25	<=13	PASS
Band12	5MHz	QPSK	23095	6	0	8.84	<=13	PASS
Band12	5MHz	QPSK	23155	1	0	8.96	<=13	PASS
Band12	5MHz	QPSK	23155	6	0	9.45	<=13	PASS
Band12	5MHz	16QAM	23035	1	0	9.59	<=13	PASS
Band12	5MHz	16QAM	23035	6	0	9.53	<=13	PASS
Band12	5MHz	16QAM	23095	1	0	9.32	<=13	PASS
Band12	5MHz	16QAM	23095	6	0	12.10	<=13	PASS
Band12	5MHz	16QAM	23155	1	0	9.92	<=13	PASS
Band12	5MHz	16QAM	23155	6	0	8.51	<=13	PASS
Band12	10MHz	QPSK	23060	1	0	9.00	<=13	PASS
Band12	10MHz	QPSK	23060	6	0	8.67	<=13	PASS
Band12	10MHz	QPSK	23095	1	0	9.33	<=13	PASS

Band12	10MHz	QPSK	23095	6	0	9.49	<=13	PASS
Band12	10MHz	QPSK	23130	1	5	9.99	<=13	PASS
Band12	10MHz	QPSK	23130	6	0	9.58	<=13	PASS
Band12	10MHz	16QAM	23060	1	0	9.23	<=13	PASS
Band12	10MHz	16QAM	23060	6	0	9.20	<=13	PASS
Band12	10MHz	16QAM	23095	1	0	9.54	<=13	PASS
Band12	10MHz	16QAM	23095	6	0	11.00	<=13	PASS
Band12	10MHz	16QAM	23130	1	5	9.63	<=13	PASS
Band12	10MHz	16QAM	23130	6	0	9.22	<=13	PASS
Band13	5MHz	QPSK	23205	1	0	8.35	<=13	PASS
Band13	5MHz	QPSK	23205	6	0	11.26	<=13	PASS
Band13	5MHz	QPSK	23230	1	0	9.14	<=13	PASS
Band13	5MHz	QPSK	23230	6	0	11.10	<=13	PASS
Band13	5MHz	QPSK	23255	1	0	7.78	<=13	PASS
Band13	5MHz	QPSK	23255	6	0	11.35	<=13	PASS
Band13	5MHz	16QAM	23205	1	0	10.10	<=13	PASS
Band13	5MHz	16QAM	23205	6	0	9.00	<=13	PASS
Band13	5MHz	16QAM	23230	1	0	9.16	<=13	PASS
Band13	5MHz	16QAM	23230	6	0	8.60	<=13	PASS
Band13	5MHz	16QAM	23255	1	0	11.56	<=13	PASS
Band13	5MHz	16QAM	23255	6	0	8.56	<=13	PASS
Band13	10MHz	QPSK	23230	1	0	8.53	<=13	PASS
Band13	10MHz	QPSK	23230	6	0	9.62	<=13	PASS
Band13	10MHz	16QAM	23230	1	0	11.40	<=13	PASS
Band13	10MHz	16QAM	23230	6	0	11.64	<=13	PASS
Band2	1.4MHz	QPSK	18607	1	0	8.02	<=13	PASS
Band2	1.4MHz	QPSK	18607	6	0	9.03	<=13	PASS
Band2	1.4MHz	QPSK	18900	1	0	11.84	<=13	PASS
Band2	1.4MHz	QPSK	18900	6	0	9.47	<=13	PASS
Band2	1.4MHz	QPSK	19193	1	0	8.28	<=13	PASS
Band2	1.4MHz	QPSK	19193	6	0	9.61	<=13	PASS
Band2	1.4MHz	16QAM	18607	1	0	9.00	<=13	PASS
Band2	1.4MHz	16QAM	18607	6	0	11.46	<=13	PASS
Band2	1.4MHz	16QAM	18900	1	0	9.26	<=13	PASS
Band2	1.4MHz	16QAM	18900	6	0	9.89	<=13	PASS
Band2	1.4MHz	16QAM	19193	1	0	9.62	<=13	PASS
Band2	1.4MHz	16QAM	19193	6	0	9.32	<=13	PASS
Band2	3MHz	QPSK	18615	1	0	9.41	<=13	PASS
Band2	3MHz	QPSK	18615	6	0	9.13	<=13	PASS
Band2	3MHz	QPSK	18900	1	0	8.20	<=13	PASS
Band2	3MHz	QPSK	18900	6	0	10.98	<=13	PASS
Band2	3MHz	QPSK	19185	1	0	9.63	<=13	PASS
Band2	3MHz	QPSK	19185	6	0	9.49	<=13	PASS
Band2	3MHz	16QAM	18615	1	0	9.73	<=13	PASS
Band2	3MHz	16QAM	18615	6	0	9.26	<=13	PASS

Band2	3MHz	16QAM	18900	1	0	9.58	<=13	PASS
Band2	3MHz	16QAM	18900	6	0	9.02	<=13	PASS
Band2	3MHz	16QAM	19185	1	0	9.47	<=13	PASS
Band2	3MHz	16QAM	19185	6	0	10.73	<=13	PASS
Band2	5MHz	QPSK	18625	1	0	7.93	<=13	PASS
Band2	5MHz	QPSK	18625	6	0	7.74	<=13	PASS
Band2	5MHz	QPSK	18900	1	0	8.55	<=13	PASS
Band2	5MHz	QPSK	18900	6	0	10.50	<=13	PASS
Band2	5MHz	QPSK	19175	1	0	8.51	<=13	PASS
Band2	5MHz	QPSK	19175	6	0	8.30	<=13	PASS
Band2	5MHz	16QAM	18625	1	0	9.56	<=13	PASS
Band2	5MHz	16QAM	18625	6	0	9.20	<=13	PASS
Band2	5MHz	16QAM	18900	1	0	8.82	<=13	PASS
Band2	5MHz	16QAM	18900	6	0	9.26	<=13	PASS
Band2	5MHz	16QAM	19175	1	0	8.66	<=13	PASS
Band2	5MHz	16QAM	19175	6	0	9.34	<=13	PASS
Band2	10MHz	QPSK	18650	1	0	8.91	<=13	PASS
Band2	10MHz	QPSK	18650	6	0	9.44	<=13	PASS
Band2	10MHz	QPSK	18900	1	0	9.16	<=13	PASS
Band2	10MHz	QPSK	18900	6	0	9.53	<=13	PASS
Band2	10MHz	QPSK	19150	1	0	7.90	<=13	PASS
Band2	10MHz	QPSK	19150	6	0	9.35	<=13	PASS
Band2	10MHz	16QAM	18650	1	0	8.91	<=13	PASS
Band2	10MHz	16QAM	18650	6	0	9.30	<=13	PASS
Band2	10MHz	16QAM	18900	1	0	9.22	<=13	PASS
Band2	10MHz	16QAM	18900	6	0	7.74	<=13	PASS
Band2	10MHz	16QAM	19150	1	0	9.46	<=13	PASS
Band2	10MHz	16QAM	19150	6	0	9.26	<=13	PASS
Band2	15MHz	QPSK	18675	1	0	9.47	<=13	PASS
Band2	15MHz	QPSK	18675	6	0	8.49	<=13	PASS
Band2	15MHz	QPSK	18900	1	0	7.90	<=13	PASS
Band2	15MHz	QPSK	18900	6	0	8.16	<=13	PASS
Band2	15MHz	QPSK	19125	1	0	10.95	<=13	PASS
Band2	15MHz	QPSK	19125	6	0	8.83	<=13	PASS
Band2	15MHz	16QAM	18675	1	0	9.12	<=13	PASS
Band2	15MHz	16QAM	18675	6	0	8.85	<=13	PASS
Band2	15MHz	16QAM	18900	1	0	9.03	<=13	PASS
Band2	15MHz	16QAM	18900	6	0	8.57	<=13	PASS
Band2	15MHz	16QAM	19125	1	0	9.00	<=13	PASS
Band2	15MHz	16QAM	19125	6	0	10.10	<=13	PASS
Band2	20MHz	QPSK	18700	1	0	8.78	<=13	PASS
Band2	20MHz	QPSK	18700	6	0	8.79	<=13	PASS
Band2	20MHz	QPSK	18900	1	0	8.85	<=13	PASS
Band2	20MHz	QPSK	18900	6	0	8.98	<=13	PASS
Band2	20MHz	QPSK	19100	1	0	8.72	<=13	PASS

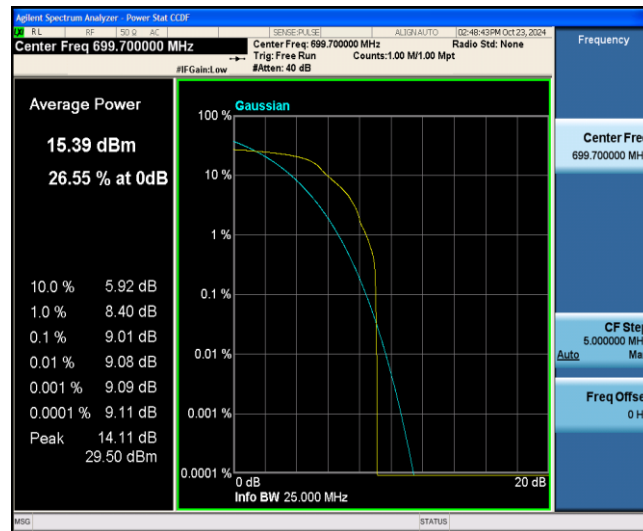
Band2	20MHz	QPSK	19100	6	0	8.80	<=13	PASS
Band2	20MHz	16QAM	18700	1	0	8.60	<=13	PASS
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Band2	20MHz	16QAM	18900	1	0	10.59	<=13	PASS
Band2	20MHz	16QAM	18900	6	0	9.31	<=13	PASS
Band2	20MHz	16QAM	19100	1	0	8.59	<=13	PASS
Band2	20MHz	16QAM	19100	6	0	8.43	<=13	PASS
Band4	1.4MHz	QPSK	19957	1	0	7.95	<=13	PASS
Band4	1.4MHz	QPSK	19957	6	0	11.80	<=13	PASS
Band4	1.4MHz	QPSK	20175	1	0	8.55	<=13	PASS
Band4	1.4MHz	QPSK	20175	6	0	8.43	<=13	PASS
Band4	1.4MHz	QPSK	20393	1	0	8.87	<=13	PASS
Band4	1.4MHz	QPSK	20393	6	0	10.46	<=13	PASS
Band4	1.4MHz	16QAM	19957	1	0	7.97	<=13	PASS
Band4	1.4MHz	16QAM	19957	6	0	11.37	<=13	PASS
Band4	1.4MHz	16QAM	20175	1	0	8.51	<=13	PASS
Band4	1.4MHz	16QAM	20175	6	0	9.04	<=13	PASS
Band4	1.4MHz	16QAM	20393	1	0	9.30	<=13	PASS
Band4	1.4MHz	16QAM	20393	6	0	8.90	<=13	PASS
Band4	3MHz	QPSK	19965	1	0	8.57	<=13	PASS
Band4	3MHz	QPSK	19965	6	0	11.10	<=13	PASS
Band4	3MHz	QPSK	20175	1	0	7.87	<=13	PASS
Band4	3MHz	QPSK	20175	6	0	11.59	<=13	PASS
Band4	3MHz	QPSK	20385	1	0	8.89	<=13	PASS
Band4	3MHz	QPSK	20385	6	0	9.05	<=13	PASS
Band4	3MHz	16QAM	19965	1	0	9.78	<=13	PASS
Band4	3MHz	16QAM	19965	6	0	9.44	<=13	PASS
Band4	3MHz	16QAM	20175	1	0	10.09	<=13	PASS
Band4	3MHz	16QAM	20175	6	0	9.71	<=13	PASS
Band4	3MHz	16QAM	20385	1	0	9.34	<=13	PASS
Band4	3MHz	16QAM	20385	6	0	9.13	<=13	PASS
Band4	5MHz	QPSK	19975	1	0	7.75	<=13	PASS
Band4	5MHz	QPSK	19975	6	0	9.49	<=13	PASS
Band4	5MHz	QPSK	20175	1	0	8.71	<=13	PASS
Band4	5MHz	QPSK	20175	6	0	8.63	<=13	PASS
Band4	5MHz	QPSK	20375	1	0	8.25	<=13	PASS
Band4	5MHz	QPSK	20375	6	0	8.47	<=13	PASS
Band4	5MHz	16QAM	19975	1	0	8.96	<=13	PASS
Band4	5MHz	16QAM	19975	6	0	11.06	<=13	PASS
Band4	5MHz	16QAM	20175	1	0	10.45	<=13	PASS
Band4	5MHz	16QAM	20175	6	0	8.07	<=13	PASS
Band4	5MHz	16QAM	20375	1	0	9.20	<=13	PASS
Band4	5MHz	16QAM	20375	6	0	9.05	<=13	PASS
Band4	10MHz	QPSK	20000	1	0	8.06	<=13	PASS
Band4	10MHz	QPSK	20000	6	0	9.30	<=13	PASS

Band4	10MHz	QPSK	20175	1	0	9.06	<=13	PASS
Band4	10MHz	QPSK	20175	6	0	9.06	<=13	PASS
Band4	10MHz	QPSK	20350	1	0	7.91	<=13	PASS
Band4	10MHz	QPSK	20350	6	0	8.49	<=13	PASS
Band4	10MHz	16QAM	20000	1	0	8.87	<=13	PASS
Band4	10MHz	16QAM	20000	6	0	8.63	<=13	PASS
Band4	10MHz	16QAM	20175	1	0	9.59	<=13	PASS
Band4	10MHz	16QAM	20175	6	0	9.42	<=13	PASS
Band4	10MHz	16QAM	20350	1	0	9.10	<=13	PASS
Band4	10MHz	16QAM	20350	6	0	8.63	<=13	PASS
Band4	15MHz	QPSK	20025	1	0	8.05	<=13	PASS
Band4	15MHz	QPSK	20025	6	0	8.42	<=13	PASS
Band4	15MHz	QPSK	20175	1	0	9.22	<=13	PASS
Band4	15MHz	QPSK	20175	6	0	8.03	<=13	PASS
Band4	15MHz	QPSK	20325	1	0	11.02	<=13	PASS
Band4	15MHz	QPSK	20325	6	0	7.94	<=13	PASS
Band4	15MHz	16QAM	20025	1	0	9.24	<=13	PASS
Band4	15MHz	16QAM	20025	6	0	9.31	<=13	PASS
Band4	15MHz	16QAM	20175	1	0	9.36	<=13	PASS
Band4	15MHz	16QAM	20175	6	0	9.36	<=13	PASS
Band4	15MHz	16QAM	20325	1	0	9.30	<=13	PASS
Band4	15MHz	16QAM	20325	6	0	8.53	<=13	PASS
Band4	20MHz	QPSK	20050	1	0	9.05	<=13	PASS
Band4	20MHz	QPSK	20050	6	0	9.10	<=13	PASS
Band4	20MHz	QPSK	20175	1	0	7.83	<=13	PASS
Band4	20MHz	QPSK	20175	6	0	9.32	<=13	PASS
Band4	20MHz	QPSK	20300	1	0	8.51	<=13	PASS
Band4	20MHz	QPSK	20300	6	0	7.77	<=13	PASS
Band4	20MHz	16QAM	20050	1	0	8.61	<=13	PASS
Band4	20MHz	16QAM	20050	6	0	8.15	<=13	PASS
Band4	20MHz	16QAM	20175	1	0	9.20	<=13	PASS
Band4	20MHz	16QAM	20175	6	0	8.02	<=13	PASS
Band4	20MHz	16QAM	20300	1	0	9.82	<=13	PASS
Band4	20MHz	16QAM	20300	6	0	10.72	<=13	PASS
Band25	1.4MHz	QPSK	26047	1	0	8.36	<=13	PASS
Band25	1.4MHz	QPSK	26047	6	0	8.36	<=13	PASS
Band25	1.4MHz	QPSK	26365	1	0	8.80	<=13	PASS
Band25	1.4MHz	QPSK	26365	6	0	9.66	<=13	PASS
Band25	1.4MHz	QPSK	26683	1	0	8.35	<=13	PASS
Band25	1.4MHz	QPSK	26683	6	0	8.35	<=13	PASS
Band25	1.4MHz	16QAM	26047	1	0	8.41	<=13	PASS
Band25	1.4MHz	16QAM	26047	6	0	8.41	<=13	PASS
Band25	1.4MHz	16QAM	26365	1	0	11.32	<=13	PASS
Band25	1.4MHz	16QAM	26365	6	0	9.62	<=13	PASS
Band25	1.4MHz	16QAM	26683	1	0	8.38	<=13	PASS

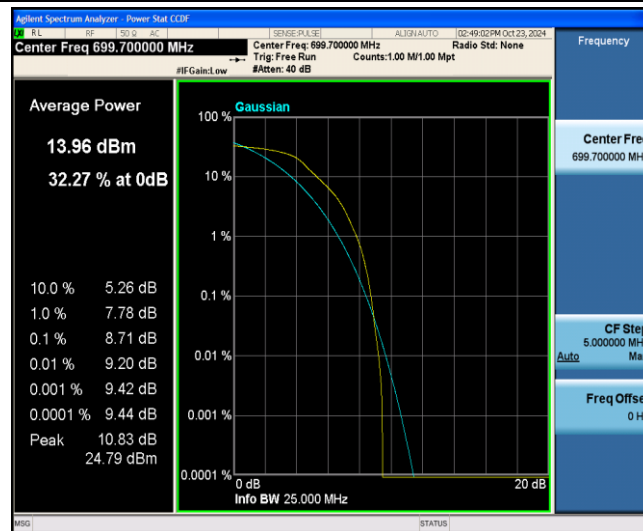
Band25	1.4MHz	16QAM	26683	6	0	8.37	<=13	PASS
Band25	3MHz	QPSK	26055	1	0	8.25	<=13	PASS
Band25	3MHz	QPSK	26055	6	0	9.56	<=13	PASS
Band25	3MHz	QPSK	26365	1	0	11.76	<=13	PASS
Band25	3MHz	QPSK	26365	6	0	12.40	<=13	PASS
Band25	3MHz	QPSK	26675	1	0	8.19	<=13	PASS
Band25	3MHz	QPSK	26675	6	0	10.99	<=13	PASS
Band25	3MHz	16QAM	26055	1	0	11.82	<=13	PASS
Band25	3MHz	16QAM	26055	6	0	9.94	<=13	PASS
Band25	3MHz	16QAM	26365	1	0	9.75	<=13	PASS
Band25	3MHz	16QAM	26365	6	0	12.54	<=13	PASS
Band25	3MHz	16QAM	26675	1	0	9.30	<=13	PASS
Band25	3MHz	16QAM	26675	6	0	11.71	<=13	PASS
Band25	5MHz	QPSK	26065	1	0	8.41	<=13	PASS
Band25	5MHz	QPSK	26065	6	0	8.33	<=13	PASS
Band25	5MHz	QPSK	26365	1	0	8.77	<=13	PASS
Band25	5MHz	QPSK	26365	6	0	8.54	<=13	PASS
Band25	5MHz	QPSK	26665	1	0	8.36	<=13	PASS
Band25	5MHz	QPSK	26665	6	0	8.37	<=13	PASS
Band25	5MHz	16QAM	26065	1	0	8.36	<=13	PASS
Band25	5MHz	16QAM	26065	6	0	8.38	<=13	PASS
Band25	5MHz	16QAM	26365	1	0	8.65	<=13	PASS
Band25	5MHz	16QAM	26365	6	0	9.31	<=13	PASS
Band25	5MHz	16QAM	26665	1	0	8.38	<=13	PASS
Band25	5MHz	16QAM	26665	6	0	8.39	<=13	PASS
Band25	10MHz	QPSK	26090	1	0	9.05	<=13	PASS
Band25	10MHz	QPSK	26090	6	0	8.79	<=13	PASS
Band25	10MHz	QPSK	26365	1	0	8.41	<=13	PASS
Band25	10MHz	QPSK	26365	6	0	10.58	<=13	PASS
Band25	10MHz	QPSK	26640	1	0	8.94	<=13	PASS
Band25	10MHz	QPSK	26640	6	0	9.36	<=13	PASS
Band25	10MHz	16QAM	26090	1	0	9.10	<=13	PASS
Band25	10MHz	16QAM	26090	6	0	9.27	<=13	PASS
Band25	10MHz	16QAM	26365	1	0	9.35	<=13	PASS
Band25	10MHz	16QAM	26365	6	0	9.58	<=13	PASS
Band25	10MHz	16QAM	26640	1	0	9.58	<=13	PASS
Band25	10MHz	16QAM	26640	6	0	9.62	<=13	PASS
Band25	15MHz	QPSK	26115	1	0	8.23	<=13	PASS
Band25	15MHz	QPSK	26115	6	0	9.22	<=13	PASS
Band25	15MHz	QPSK	26365	1	0	8.44	<=13	PASS
Band25	15MHz	QPSK	26365	6	0	8.04	<=13	PASS
Band25	15MHz	QPSK	26615	1	0	9.44	<=13	PASS
Band25	15MHz	QPSK	26615	6	0	8.94	<=13	PASS
Band25	15MHz	16QAM	26115	1	0	9.03	<=13	PASS
Band25	15MHz	16QAM	26115	6	0	8.88	<=13	PASS

Band25	15MHz	16QAM	26365	1	0	9.03	<=13	PASS
Band25	15MHz	16QAM	26365	6	0	9.67	<=13	PASS
Band25	15MHz	16QAM	26615	1	0	9.38	<=13	PASS
Band25	15MHz	16QAM	26615	6	0	9.62	<=13	PASS
Band25	20MHz	QPSK	26140	1	0	8.84	<=13	PASS
Band25	20MHz	QPSK	26140	6	0	8.23	<=13	PASS
Band25	20MHz	QPSK	26365	1	0	8.69	<=13	PASS
Band25	20MHz	QPSK	26365	6	0	8.83	<=13	PASS
Band25	20MHz	QPSK	26590	1	0	8.97	<=13	PASS
Band25	20MHz	QPSK	26590	6	0	8.92	<=13	PASS
Band25	20MHz	16QAM	26140	1	0	9.55	<=13	PASS
Band25	20MHz	16QAM	26140	6	0	9.01	<=13	PASS
Band25	20MHz	16QAM	26365	1	0	10.07	<=13	PASS
Band25	20MHz	16QAM	26365	6	0	8.96	<=13	PASS
Band25	20MHz	16QAM	26590	1	0	10.34	<=13	PASS
Band25	20MHz	16QAM	26590	6	0	8.49	<=13	PASS

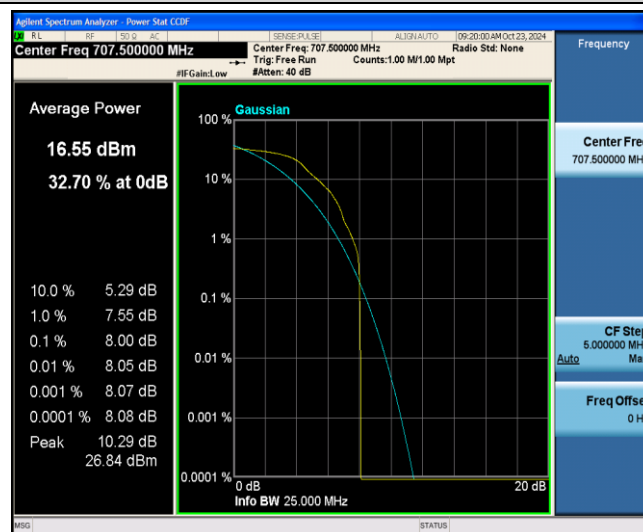
Test Graphs



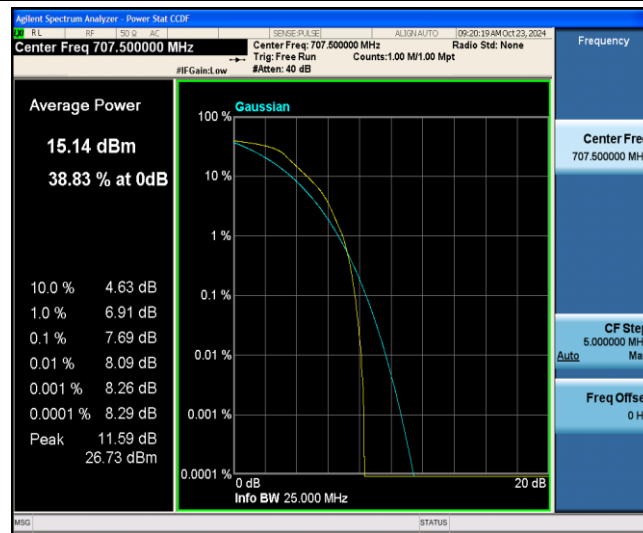
Band12-1.4MHz-QPSK-23017-1-0-Low-9.01-<=13-PASS



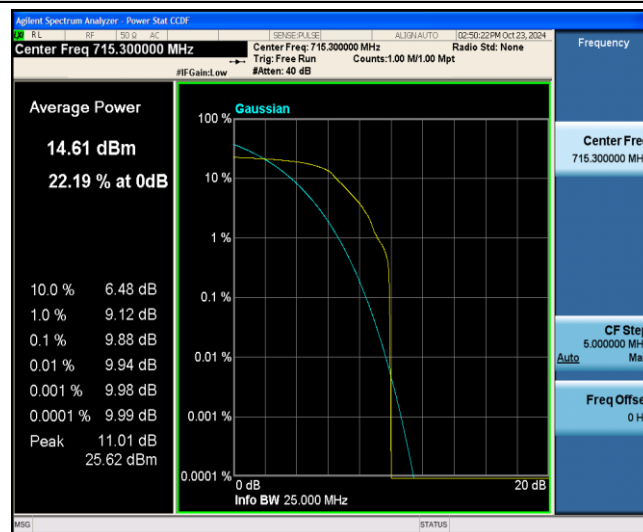
Band12-1.4MHz-QPSK-23017-6-0-Low-8.71-<=13-PASS



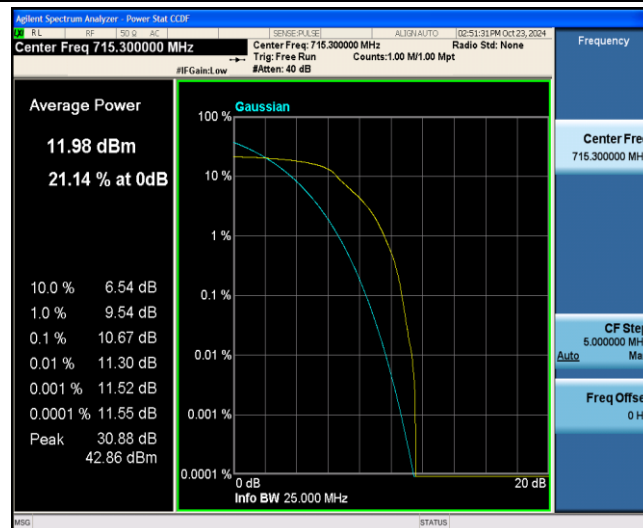
Band12-1.4MHz-QPSK-23095-1-0-Low-8.00-<=13-PASS



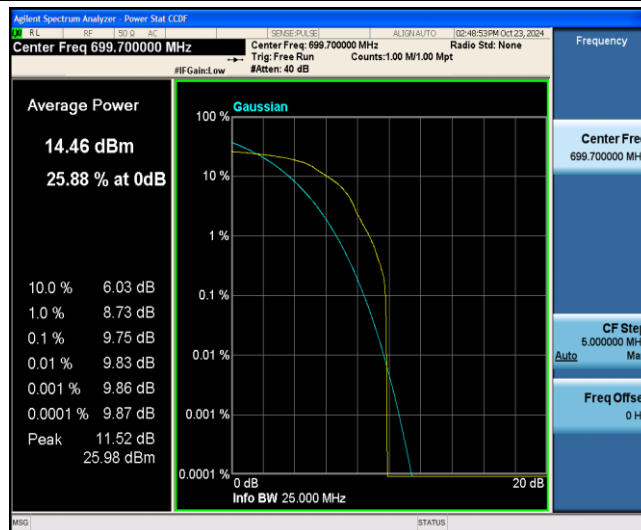
Band12-1.4MHz-QPSK-23095-6-0-Low-7.69-<=13-PASS



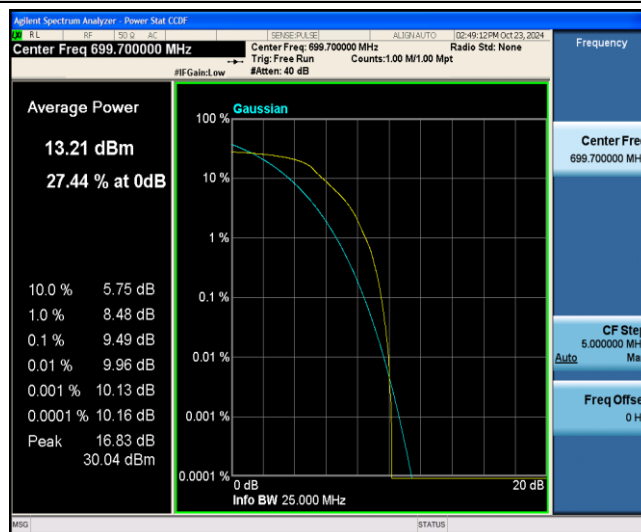
Band12-1.4MHz-QPSK-23173-1-0-Low-9.88-<=13-PASS



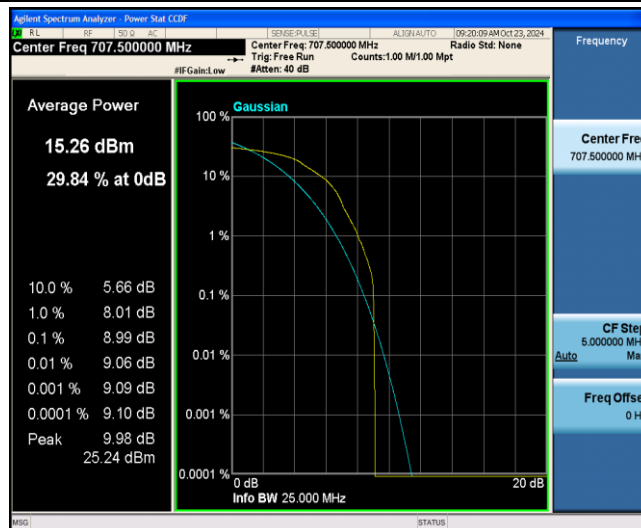
Band12-1.4MHz-QPSK-23173-6-0-Low-10.67-<=13-PASS



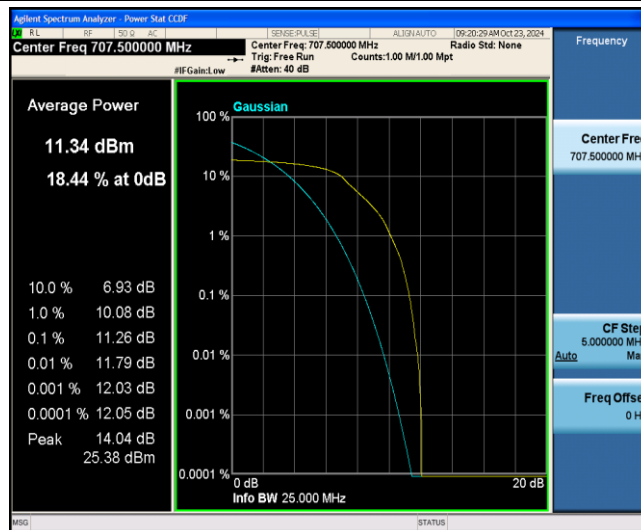
Band12-1.4MHz-16QAM-23017-1-0-Low-9.75-<=13-PASS



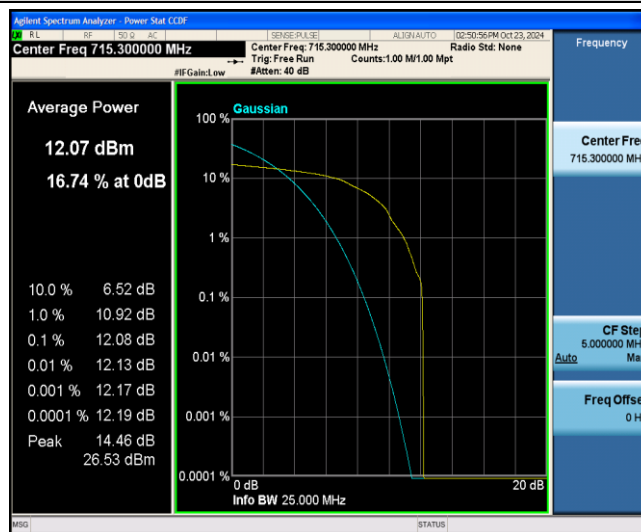
Band12-1.4MHz-16QAM-23017-6-0-Low-9.49-<=13-PASS



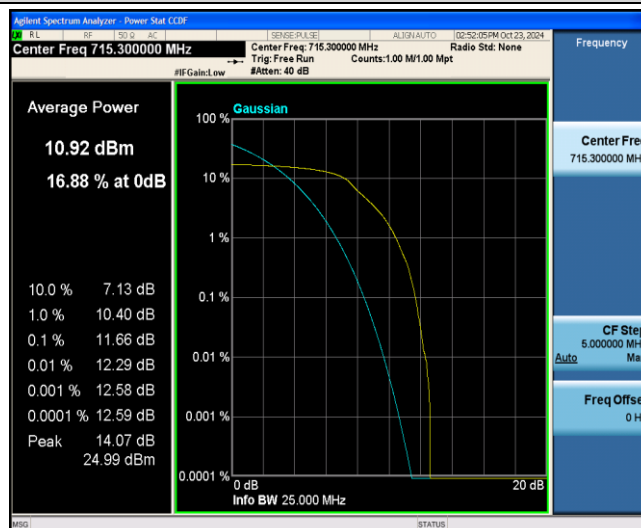
Band12-1.4MHz-16QAM-23095-1-0-Low-8.99-<=13-PASS



Band12-1.4MHz-16QAM-23095-6-0-Low-11.26-<=13-PASS



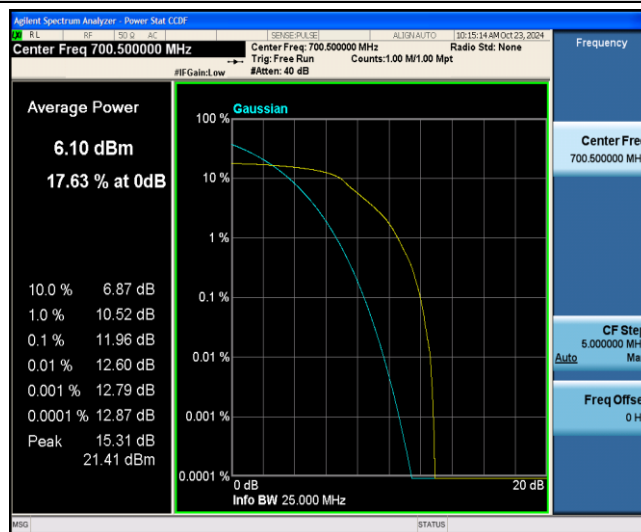
Band12-1.4MHz-16QAM-23173-1-0-Low-12.08-<=13-PASS



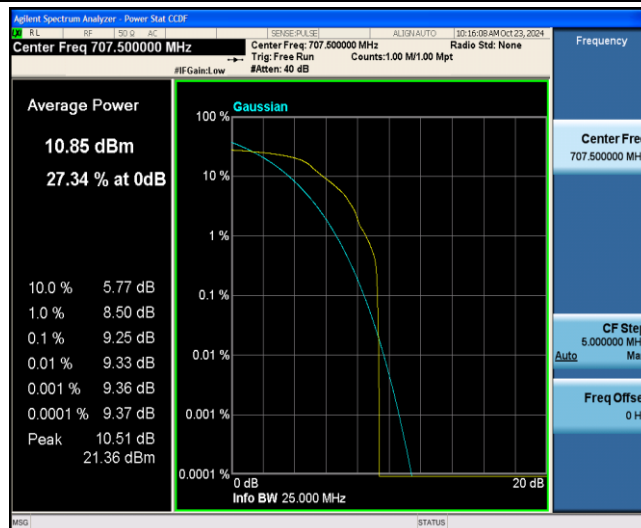
Band12-1.4MHz-16QAM-23173-6-0-Low-11.66-<=13-PASS



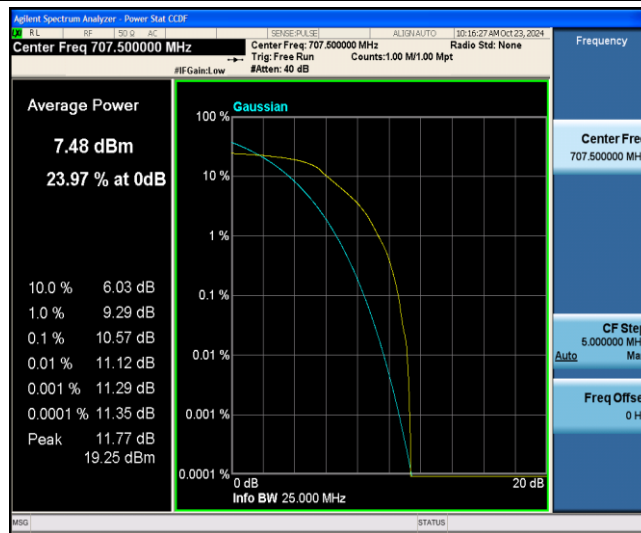
Band12-3MHz-QPSK-23025-1-0-Low-8.99-<=13-PASS



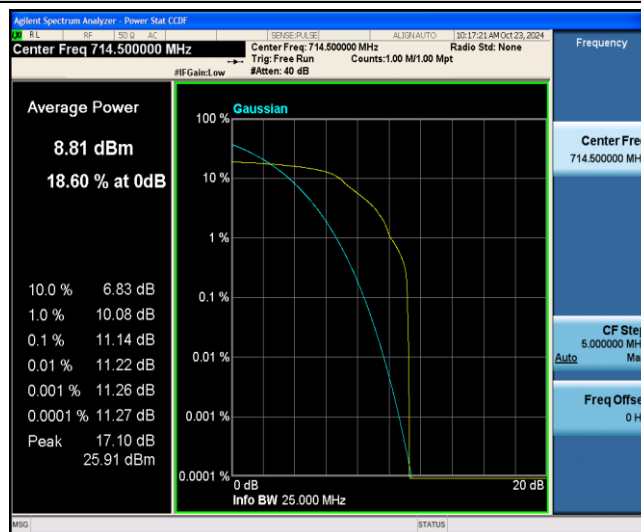
Band12-3MHz-QPSK-23025-6-0-Low-11.96-<=13-PASS



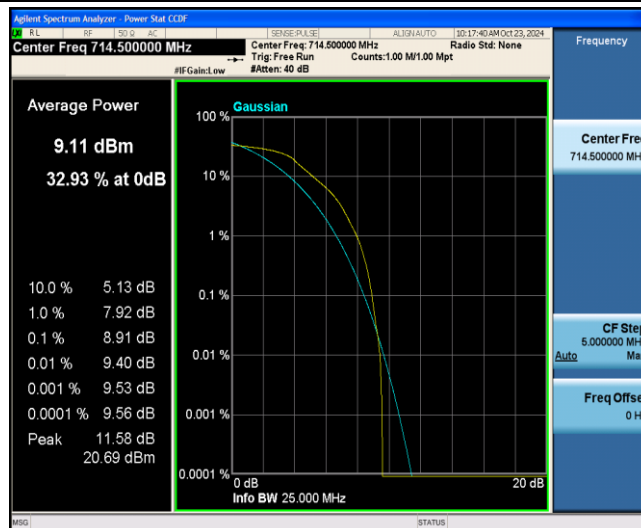
Band12-3MHz-QPSK-23095-1-0-Low-9.25-<=13-PASS



Band12-3MHz-QPSK-23095-6-0-Low-10.57-=<=13-PASS



Band12-3MHz-QPSK-23165-1-0-Low-11.14-=<=13-PASS



Band12-3MHz-QPSK-23165-6-0-Low-8.91-=<=13-PASS