



TEST REPORT

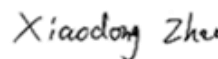
For GSM

Report No.....	: CHTW25090043	
Project No	: SHT2508057501W	
FCC ID	: 2ASWW-GT22	
Applicant's name	: XINCHUANGXIN INTERNATIONAL CO. LTD	
Address	: ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL	
Product Name	: Feature phone	
Trade Mark.....	: CORN	
Model No.....	: GT22	
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	
Date of receipt of test sample.....	: 2025/8/27	
Date of testing	: 2025/8/28- 2025/9/12	
Date of issue	: 2025/9/19	
Result.....	: PASS	

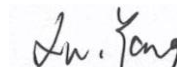
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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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

Test Report Form No. : R0066

Test Report Form(s) Originator : Shenzhen Huatongwei International Inspection Co., Ltd.

Master TRF : Dated 2025-07

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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

[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	2025-09-19	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)	Pass	Xianyu.Wei
5.2	Peak-to-Average Ratio	Part 24.232	Pass	Xianyu.Wei
5.3	99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass	Xianyu.Wei
5.4	Band Edge	Part 2.1051 Part 22.917 Part 24.238	Pass	Xianyu.Wei
5.5	Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238	Pass	Xianyu.Wei
5.6	Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235	Pass	Xianyu.Wei
5.7	Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235	Pass	Xianyu.Wei
5.8	ERP and EIRP	Part 22.913(a) Part 24.232(b)	Pass	Xianyu.Wei
5.9	Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238	Pass	Yifan.Wang

Note:

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

3. SUMMARY

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO. LTD
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD
Address:	Second Floor,Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong

3.2. Product Description

Main unit information:	
Product Name:	Feature phone
Trade Mark:	CORN
Model No.:	GT22
Listed Model(s):	-
Power supply:	DC 3.7V from Battery
Hardware version:	ZS621TF_MB_V1.0
Software version:	ZS621TF_128160_A18415TFM_GT22_CORN_EnFrPoSp_V02_20250909
Accessory unit information:	
Battery information:	BL-5C Voltage:3.7V Capcaity:1000mAh 3.7V Li-ion BATTERY 3.7 Wh
Adapter information:	Input: 100-240Vac 50/60Hz 150mA Output: DC 5.2V 500mA

3.3. Radio Specification Description

Support Operating Band:	☒ GSM850 ☒ PCS1900
Operating Frequency Range:	Please refer to note #2
Support Network:	☒ GSM ☒ GPRS ☐ EGPRS
Modulation type:	☒ GMSK ☐ 8PSK
GPRS Multislot Class:	☐ 8 ☐ 10 ☒ 12 ☐ 33
Antenna type:	PIFA Antenna
Antenna gain #3:	GSM850: -1.70dBi PCS1900: 2.00dBi

Note:

- ☒: means that this feature is supported; ☐: means that this feature is not supported
- #2: Operating frequency range is as follow:

Band	Uplink frequency	Downlink frequency
GSM850	824.20 - 848.80MHz	869.20 - 893.80MHz
PCS1900	1850.20 -1909.80MHz	1930.20 -1989.80MHz

- #3: 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: 400-963-0755 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

GSM850		PCS1900	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
190	836.60	661	1880.00
251	848.80	810	1909.80

4.2. Test mode

Test mode	Link mode
-----------	-----------

- 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.

All modes and data rates and positions were investigated, test modes are chosen to be reported as the worst case configuration below:

Band	Radiated test items	Conducted test items
GSM 850	■ GSM link	■ GSM link ■ GPRS Class 12 link
PCS 1900	■ GSM link	■ GSM link ■ GPRS Class 12 link

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	YPHT25080575001

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 4.07V
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	4.54dB for 30MHz-1GHz 5.10dB 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 Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	RF Conducted	JS1120-RF Auto Test System	Tonscend	HTWER010	V3.5.39
●	Radiated Spurious Emission	E3	AUDIX	HTWER006	V6.110407a

● 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	2025/8/19	2026/8/18
●	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2025/8/6	2026/8/5
●	T-Cock	Weinschel	HTWE0289	1580	SC329	2025/4/14	2026/4/13

● 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	2025/6/11	2026/6/10
●	DC Power Supply	MESTEK	HTWE0705	DP6010	00230820197	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	2025/8/6	2026/8/5
●	Spectrum Analyzer	Agilent	HTWE0385	N9020A	MY54486658	2025/8/6	2026/8/5
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2024/4/8	2027/4/7
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0700	VULB9163	1422	2025/4/7	2028/4/6
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Horn Antenna	ETS	HTWE0532	3117	240056	2025/4/14	2028/4/13
●	Horn Antenna	STEATITE	HTWE0549	QMS-00880	25661	2025/4/14	2028/4/13
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2025/5/26	2026/5/25
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2025/5/26	2026/5/25
●	Pre-amplifier	SCHWARZBECK	HTWE0552	SCU40F1	100619	2025/5/26	2026/5/25

● 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	HTWE0323	CMW500	137681	2025/3/13	2026/3/12
●	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2025/5/26	2026/5/25
●	Band Stop filter	-	HTWE0039	N/A	N/A	2025/1/21	2026/1/20

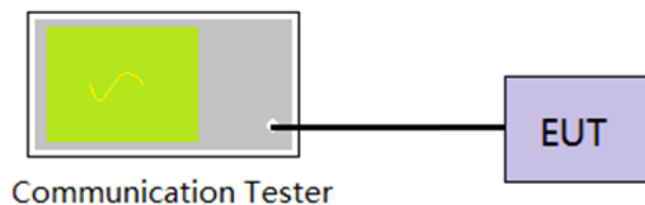
5. TEST CONDITIONS AND RESULTS

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

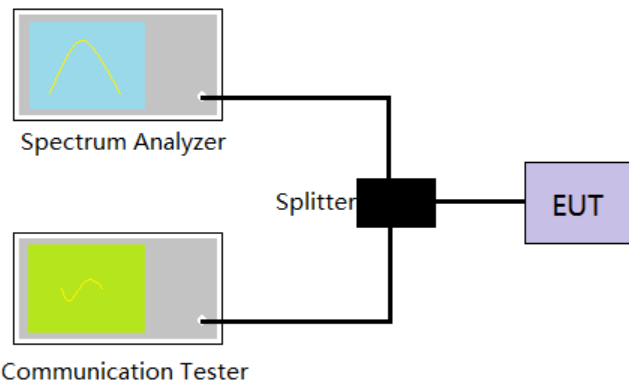
Refer to the appendix report

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

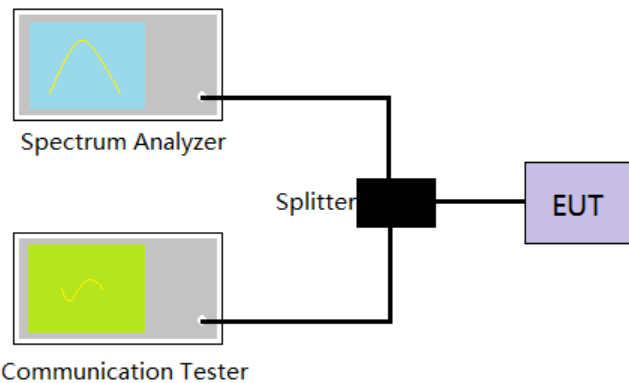
Refer to the appendix report

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 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

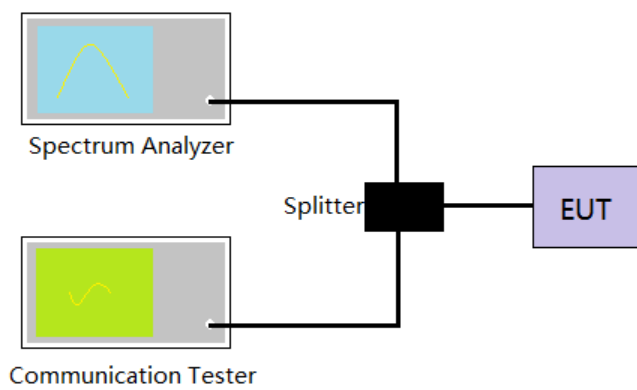
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 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=3KHz, VBW = 10KHz, 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

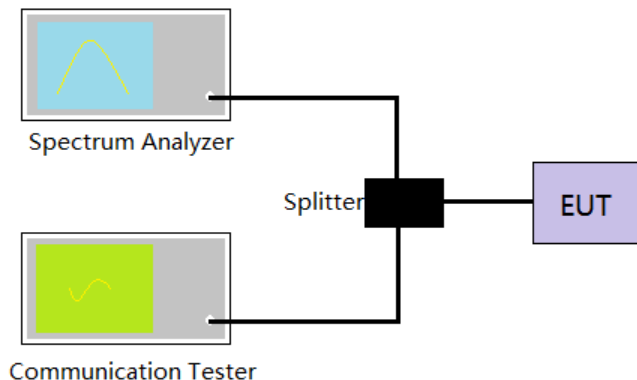
5.5. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 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

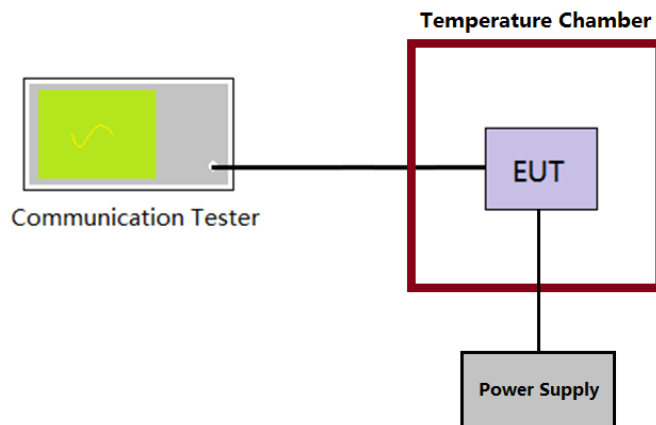
Refer to the appendix report

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

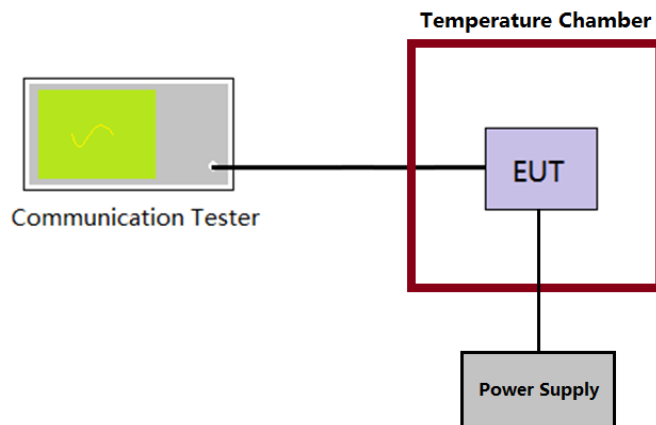
Refer to the appendix report

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

GSM850: 7W (38.45dBm) ERP

PCS1900: 2W (33dBm) EIRP

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

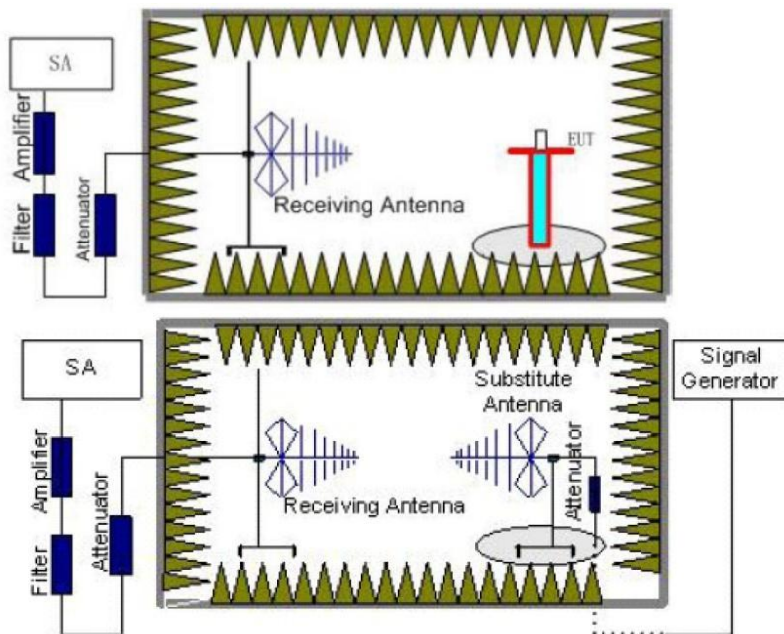
Refer to the appendix report

5.9. Radiated Spurious Emission

LIMIT

-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**

GSM850									
Test channel:		128			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-70.24	25.43	3.97	29.26	-70.10	-13.00	-57.10	Peak
2	449.85	-69.15	25.95	4.24	29.26	-68.22	-13.00	-55.22	Peak
3	3200.50	-61.83	41.37	4.97	40.80	-56.29	-13.00	-43.29	Peak
4	4996.69	-64.66	44.35	6.31	39.92	-53.92	-13.00	-40.92	Peak
5	7432.62	-66.23	48.40	7.92	39.20	-49.11	-13.00	-36.11	Peak
6	8250.27	-66.11	47.31	8.44	39.25	-49.61	-13.00	-36.61	Peak
Test channel:		128			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	399.15	-71.35	25.23	3.96	29.26	-71.42	-13.00	-58.42	Peak
2	449.85	-68.25	25.28	4.24	29.26	-67.99	-13.00	-54.99	Peak
3	1646.95	-41.41	36.11	3.43	41.50	-43.37	-13.00	-30.37	Peak
4	3200.50	-62.33	41.48	4.97	40.80	-56.68	-13.00	-43.68	Peak
5	4920.96	-65.89	44.17	6.37	40.00	-55.35	-13.00	-42.35	Peak
6	7761.32	-66.25	48.50	8.14	39.34	-48.95	-13.00	-35.95	Peak

Test channel:		190			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-71.15	25.43	3.97	29.26	-71.01	-13.00	-58.01	Peak
2	449.85	-66.83	25.95	4.24	29.26	-65.90	-13.00	-52.90	Peak
3	3128.01	-61.55	41.25	4.88	40.80	-56.22	-13.00	-43.22	Peak
4	3672.11	-61.79	42.32	5.24	40.67	-54.90	-13.00	-41.90	Peak
5	5009.43	-62.69	44.34	6.30	39.90	-51.95	-13.00	-38.95	Peak
6	7508.69	-63.83	48.05	7.98	39.20	-47.00	-13.00	-34.00	Peak
Test channel:		190			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	90.82	-79.71	25.88	1.81	30.49	-82.51	-13.00	-69.51	Peak
2	449.85	-71.03	25.28	4.24	29.26	-70.77	-13.00	-57.77	Peak
3	1676.56	-41.36	36.18	3.44	41.50	-43.24	-13.00	-30.24	Peak
4	3350.56	-58.27	40.03	4.93	40.80	-54.11	-13.00	-41.11	Peak
5	4996.69	-60.39	44.50	6.31	39.92	-49.50	-13.00	-36.50	Peak
6	6696.01	-63.15	47.14	7.81	38.96	-47.16	-13.00	-34.16	Peak

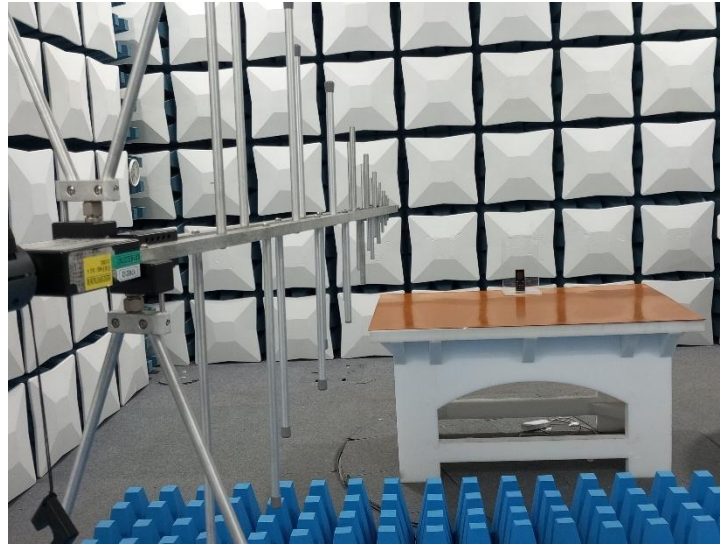
Test channel:		251			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-71.11	25.43	3.97	29.26	-70.97	-13.00	-57.97	Peak
2	449.85	-70.36	25.95	4.24	29.26	-69.43	-13.00	-56.43	Peak
3	3200.50	-62.70	41.37	4.97	40.80	-57.16	-13.00	-44.16	Peak
4	4536.00	-65.18	43.29	5.91	40.20	-56.18	-13.00	-43.18	Peak
5	6868.65	-66.08	47.06	7.72	38.90	-50.20	-13.00	-37.20	Peak
6	7981.72	-65.95	48.11	8.37	39.23	-48.70	-13.00	-35.70	Peak
Test channel:		251			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-71.76	25.25	3.97	29.26	-71.80	-13.00	-58.80	Peak
2	449.85	-68.89	25.28	4.24	29.26	-68.63	-13.00	-55.63	Peak
3	1698.03	-40.54	36.23	3.45	41.50	-42.36	-13.00	-29.36	Peak
4	3200.50	-62.98	41.48	4.97	40.80	-57.33	-13.00	-44.33	Peak
5	4996.69	-63.84	44.50	6.31	39.92	-52.95	-13.00	-39.95	Peak
6	8002.06	-65.71	47.61	8.41	39.21	-48.90	-13.00	-35.90	Peak

PCS1900									
Test channel:		512			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-65.32	25.43	3.97	29.26	-65.18	-13.00	-52.18	Peak
2	449.85	-64.68	25.95	4.24	29.26	-63.75	-13.00	-50.75	Peak
3	3700.26	-44.56	42.29	5.22	40.66	-37.71	-13.00	-24.71	Peak
4	4996.69	-63.28	44.35	6.31	39.92	-52.54	-13.00	-39.54	Peak
5	7413.73	-65.75	48.49	7.91	39.20	-48.55	-13.00	-35.55	Peak
6	11399.03	-66.96	52.97	9.22	40.12	-44.89	-13.00	-31.89	Peak
Test channel:		512			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-71.81	25.25	3.97	29.26	-71.85	-13.00	-58.85	Peak
2	449.85	-67.73	25.28	4.24	29.26	-67.47	-13.00	-54.47	Peak
3	3700.26	-36.57	42.32	5.22	40.66	-29.69	-13.00	-16.69	Peak
4	4996.69	-62.06	44.50	6.31	39.92	-51.17	-13.00	-38.17	Peak
5	7413.73	-64.21	48.57	7.91	39.20	-46.93	-13.00	-33.93	Peak
6	11341.14	-66.62	53.08	9.17	40.19	-44.56	-13.00	-31.56	Peak

Test channel:		661			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-69.89	25.43	3.97	29.26	-69.75	-13.00	-56.75	Peak
2	449.85	-69.02	25.95	4.24	29.26	-68.09	-13.00	-55.09	Peak
3	3757.21	-51.62	42.23	5.29	40.63	-44.73	-13.00	-31.73	Peak
4	4996.69	-62.79	44.35	6.31	39.92	-52.05	-13.00	-39.05	Peak
5	7527.83	-64.34	47.96	7.99	39.20	-47.59	-13.00	-34.59	Peak
6	12024.96	-66.17	52.57	10.11	40.79	-44.28	-13.00	-31.28	Peak
Test channel:		661			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-65.16	25.25	3.97	29.26	-65.20	-13.00	-52.20	Peak
2	449.85	-66.80	25.28	4.24	29.26	-66.54	-13.00	-53.54	Peak
3	3757.21	-44.30	42.15	5.29	40.63	-37.49	-13.00	-24.49	Peak
4	4996.69	-60.63	44.50	6.31	39.92	-49.74	-13.00	-36.74	Peak
5	7527.83	-63.91	48.37	7.99	39.20	-46.75	-13.00	-33.75	Peak
6	11428.08	-66.33	53.15	9.24	40.09	-44.03	-13.00	-31.03	Peak

Test channel:		810			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-64.34	25.43	3.97	29.26	-64.20	-13.00	-51.20	Peak
2	449.85	-64.84	25.95	4.24	29.26	-63.91	-13.00	-50.91	Peak
3	3824.76	-58.07	42.07	5.37	40.59	-51.22	-13.00	-38.22	Peak
4	4996.69	-63.57	44.35	6.31	39.92	-52.83	-13.00	-39.83	Peak
5	7301.36	-64.48	48.21	7.87	39.02	-47.42	-13.00	-34.42	Peak
6	11486.41	-66.99	52.98	9.29	40.02	-44.74	-13.00	-31.74	Peak
Test channel:		810			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	400.56	-64.33	25.25	3.97	29.26	-64.37	-13.00	-51.37	Peak
2	449.85	-62.03	25.28	4.24	29.26	-61.77	-13.00	-48.77	Peak
3	3824.76	-53.22	41.96	5.37	40.59	-46.48	-13.00	-33.48	Peak
4	4996.69	-61.67	44.50	6.31	39.92	-50.78	-13.00	-37.78	Peak
5	7643.68	-64.75	48.32	8.03	39.24	-47.64	-13.00	-34.64	Peak
6	11399.03	-66.48	53.13	9.22	40.12	-44.25	-13.00	-31.25	Peak

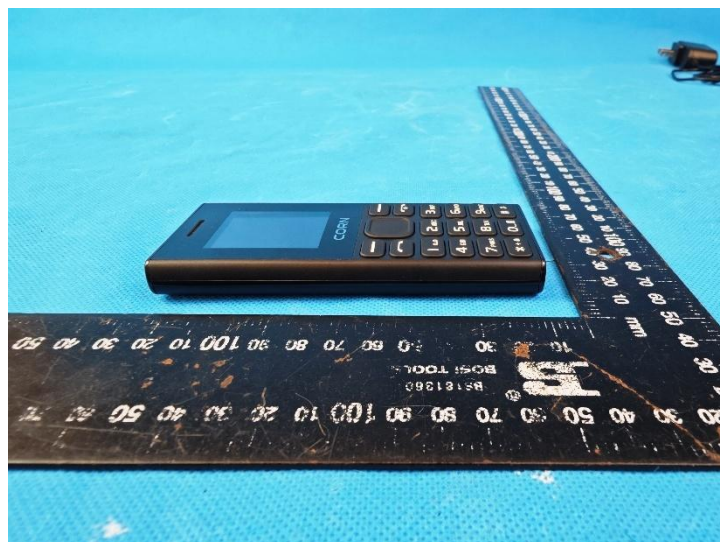
6. TEST SETUP PHOTOS OF THE EUT

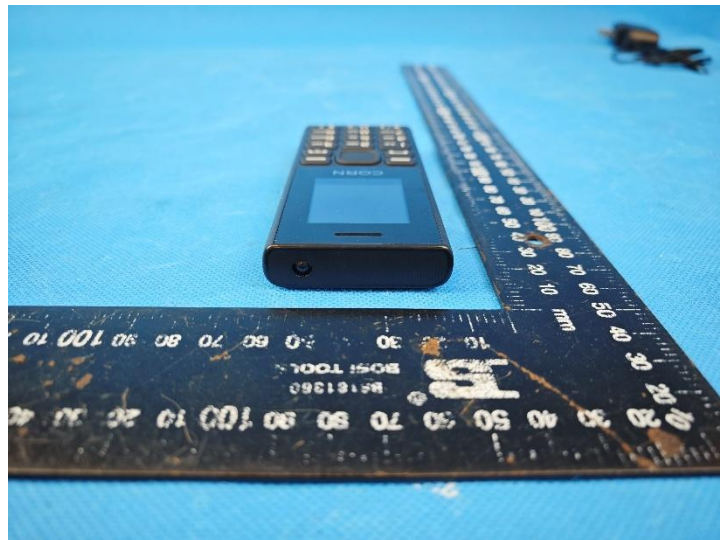


7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

7.1. External photos

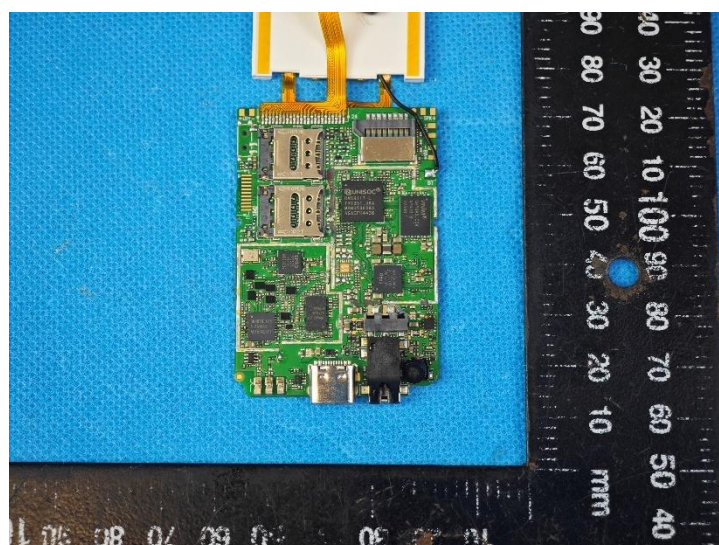
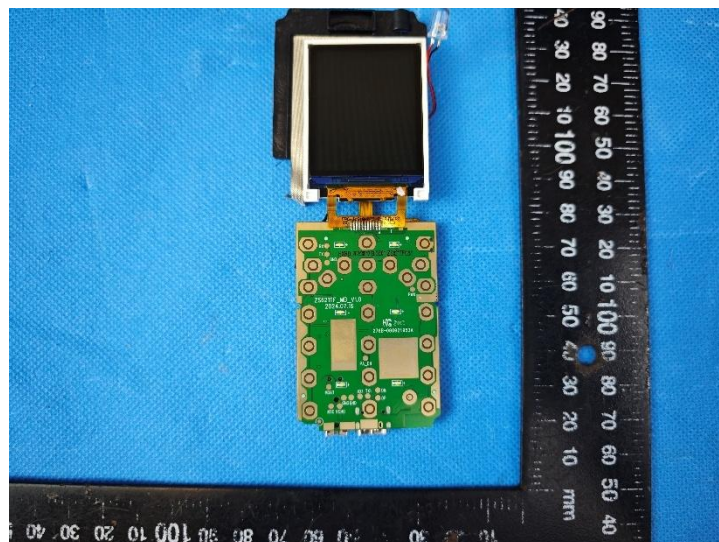
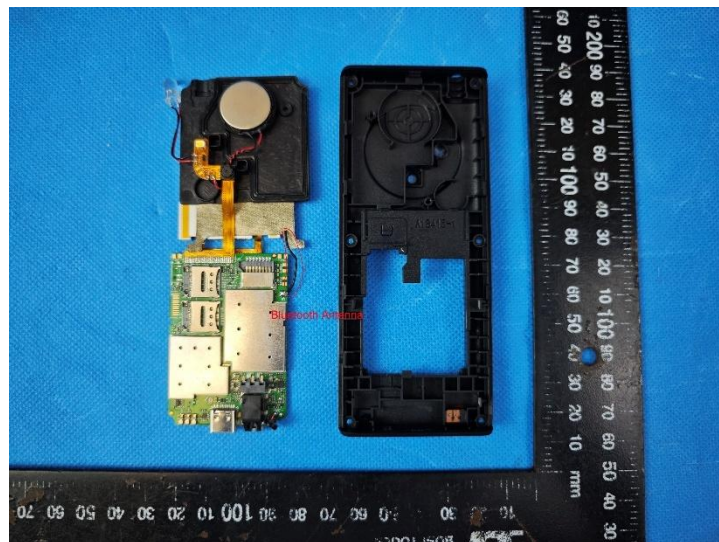


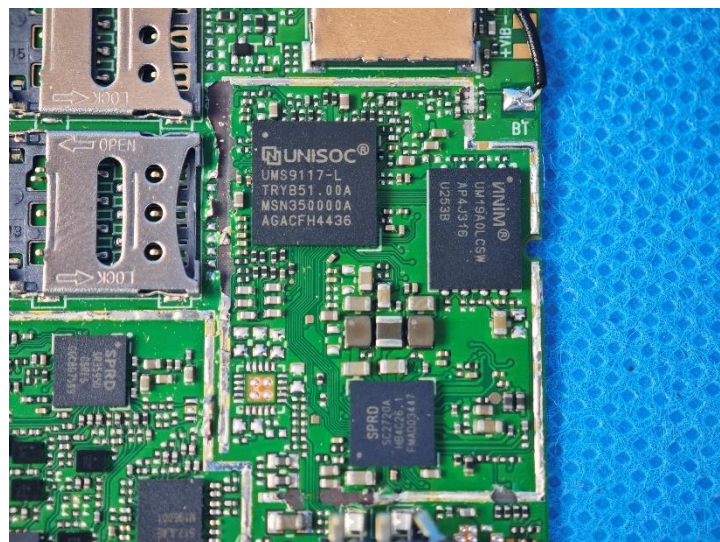
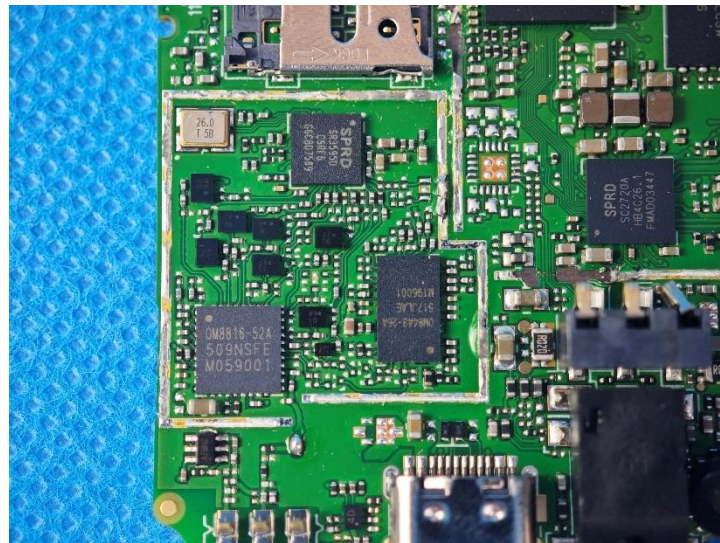




7.2. Internal photos







8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2508057501W	Radio Specification	GSM
Test sample No.	YPHT25080575006	Model No.	GT22
Start test date	2025-09-01	Finish date	2025-09-03
Temperature	25.5℃	Humidity	51%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhe

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

Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
GSM850	128	33.01	38.45	PASS
GSM850	190	33.02	38.45	PASS
GSM850	251	33.00	38.45	PASS
GSM1900	512	29.86	33.00	PASS
GSM1900	661	30.27	33.00	PASS
GSM1900	810	30.33	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	33.01	38.45	PASS
GPRS850	128	2	29.41	38.45	PASS
GPRS850	128	3	27.32	38.45	PASS
GPRS850	128	4	24.91	38.45	PASS
GPRS850	190	1	33.11	38.45	PASS
GPRS850	190	2	29.46	38.45	PASS
GPRS850	190	3	27.38	38.45	PASS
GPRS850	190	4	25.00	38.45	PASS
GPRS850	251	1	33.12	38.45	PASS
GPRS850	251	2	29.51	38.45	PASS
GPRS850	251	3	27.43	38.45	PASS
GPRS850	251	4	25.05	38.45	PASS
GPRS1900	512	1	29.74	33.00	PASS
GPRS1900	512	2	27.11	33.00	PASS
GPRS1900	512	3	25.29	33.00	PASS
GPRS1900	512	4	23.21	33.00	PASS
GPRS1900	661	1	30.13	33.00	PASS
GPRS1900	661	2	27.01	33.00	PASS
GPRS1900	661	3	25.17	33.00	PASS
GPRS1900	661	4	23.09	33.00	PASS
GPRS1900	810	1	30.17	33.00	PASS
GPRS1900	810	2	26.67	33.00	PASS
GPRS1900	810	3	24.78	33.00	PASS
GPRS1900	810	4	22.65	33.00	PASS

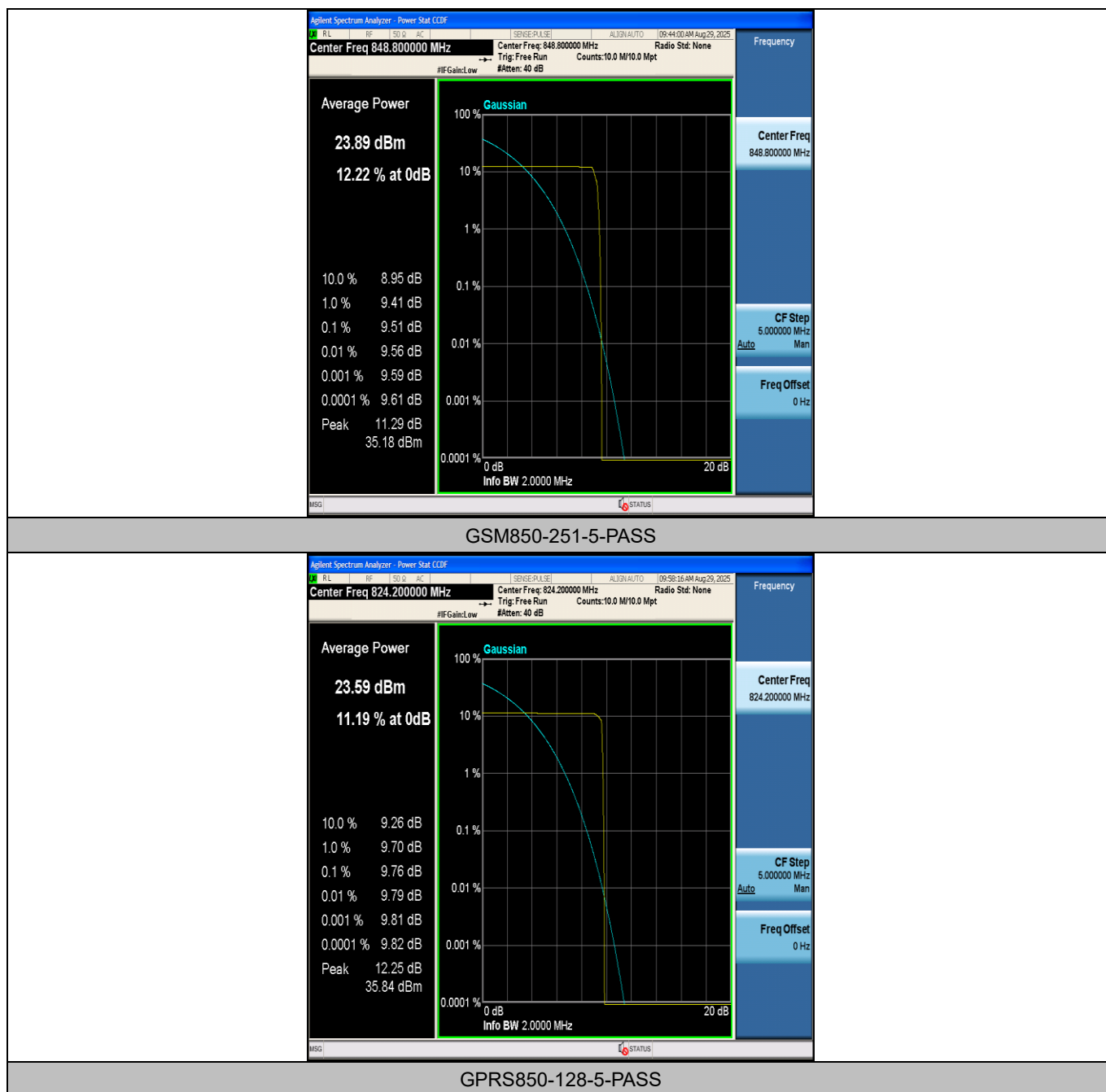
Appendix B: Peak-to-Average Ratio(CCDF)

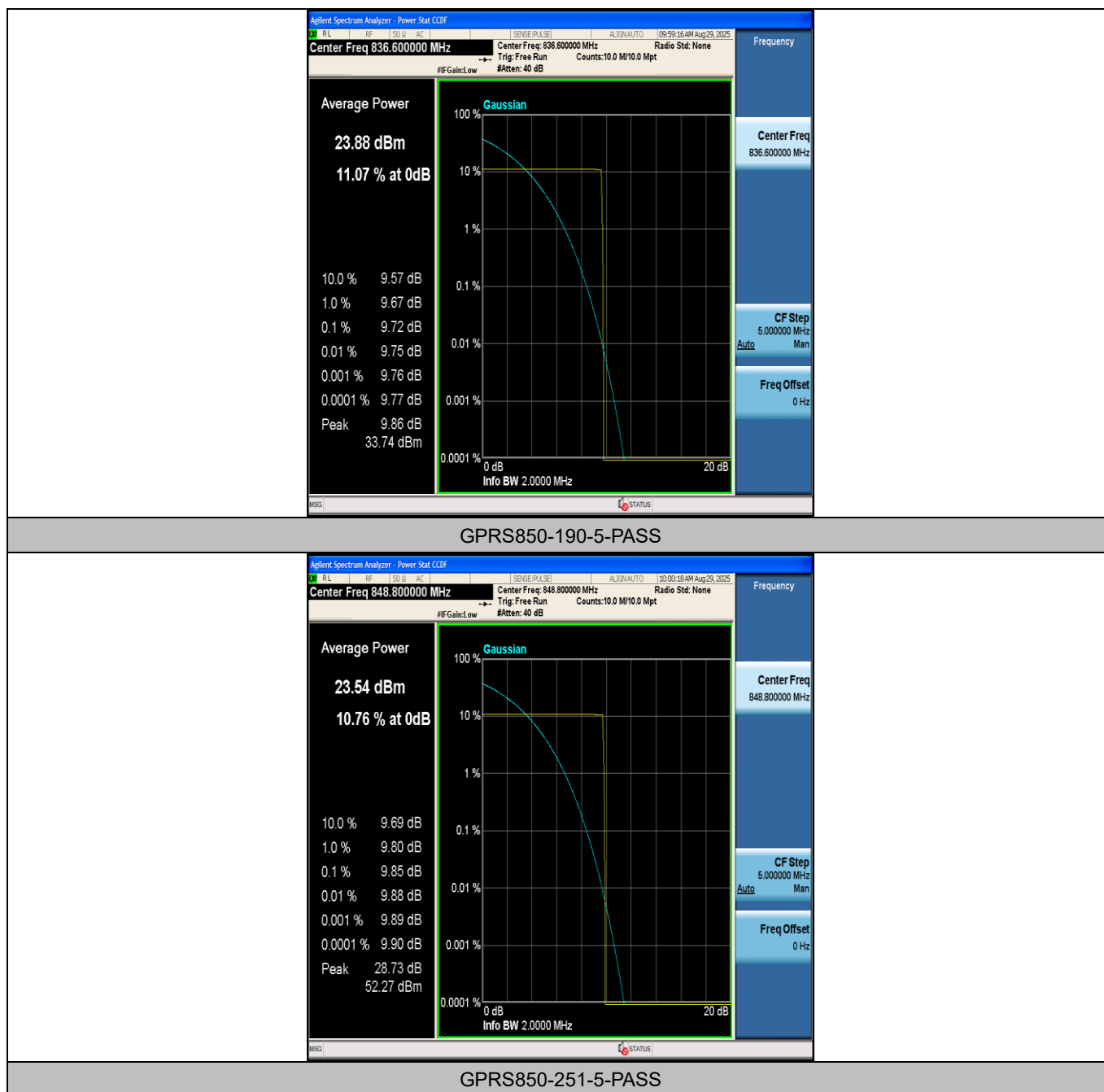
Test Result

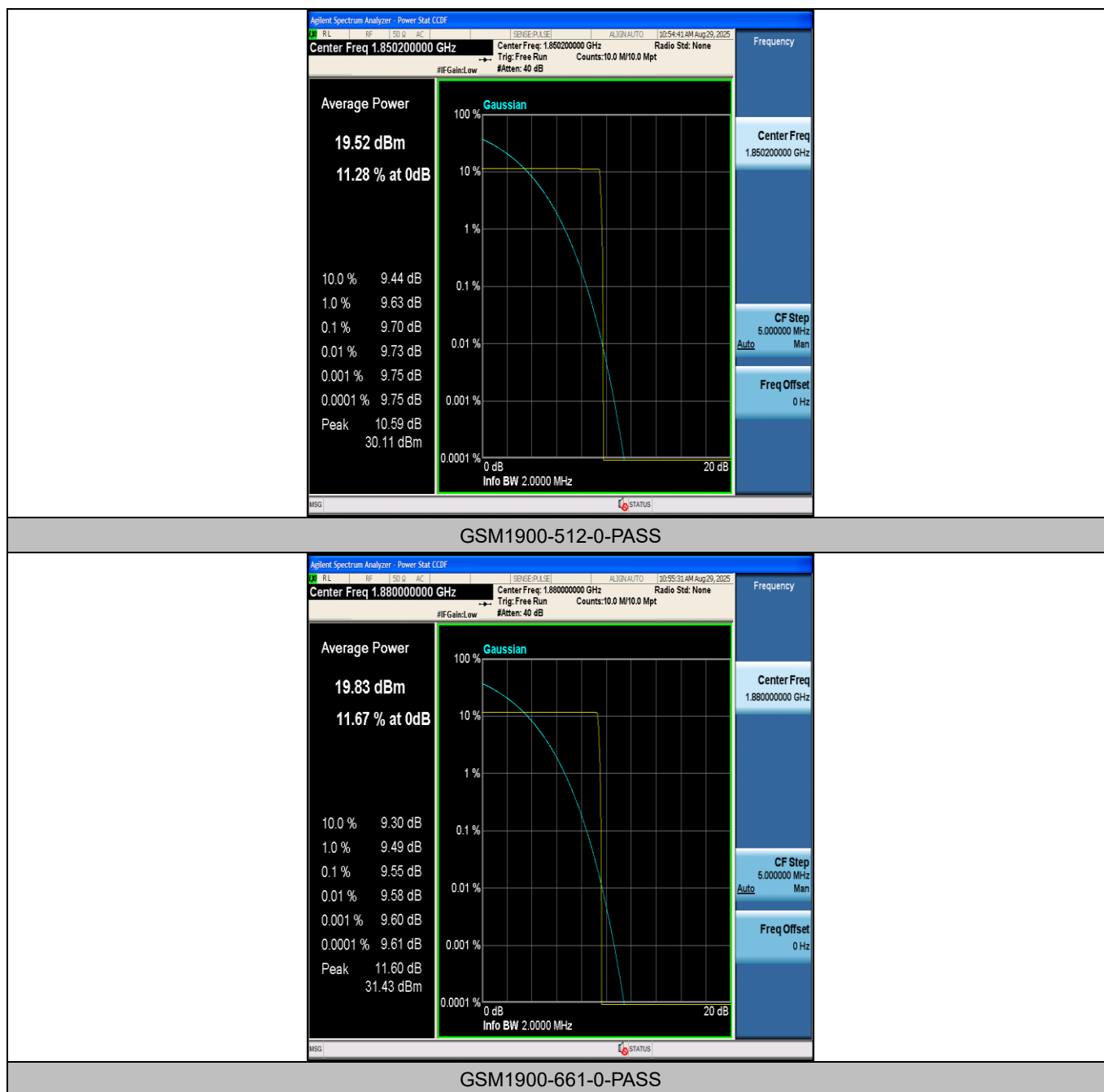
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.46	13	PASS
GSM850	190	9.63	13	PASS
GSM850	251	9.51	13	PASS
GPRS850	128	9.76	13	PASS
GPRS850	190	9.72	13	PASS
GPRS850	251	9.85	13	PASS
GSM1900	512	9.70	13	PASS
GSM1900	661	9.55	13	PASS
GSM1900	810	9.56	13	PASS
GPRS1900	512	9.89	13	PASS
GPRS1900	661	9.87	13	PASS
GPRS1900	810	9.92	13	PASS

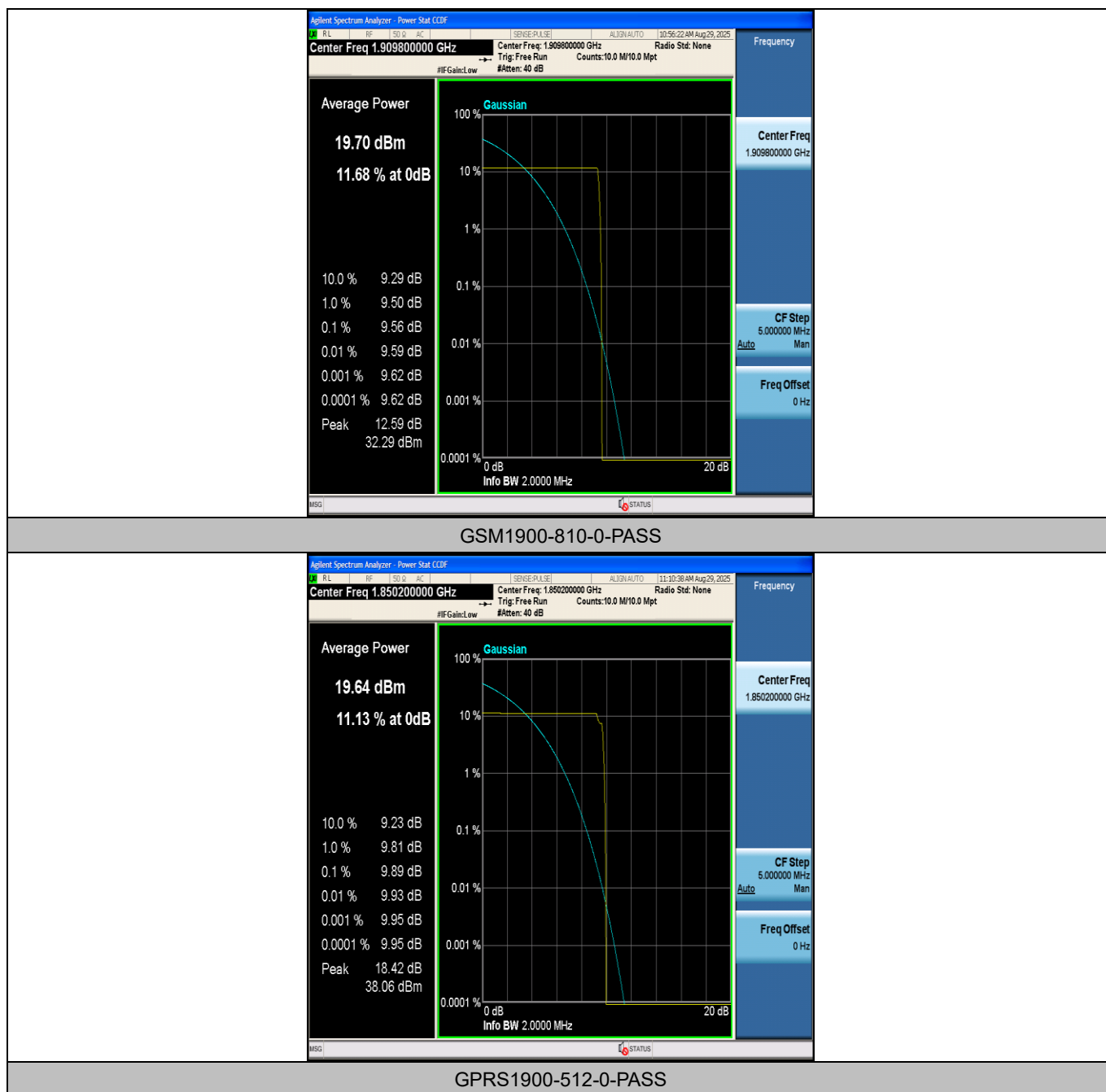
Test Graphs

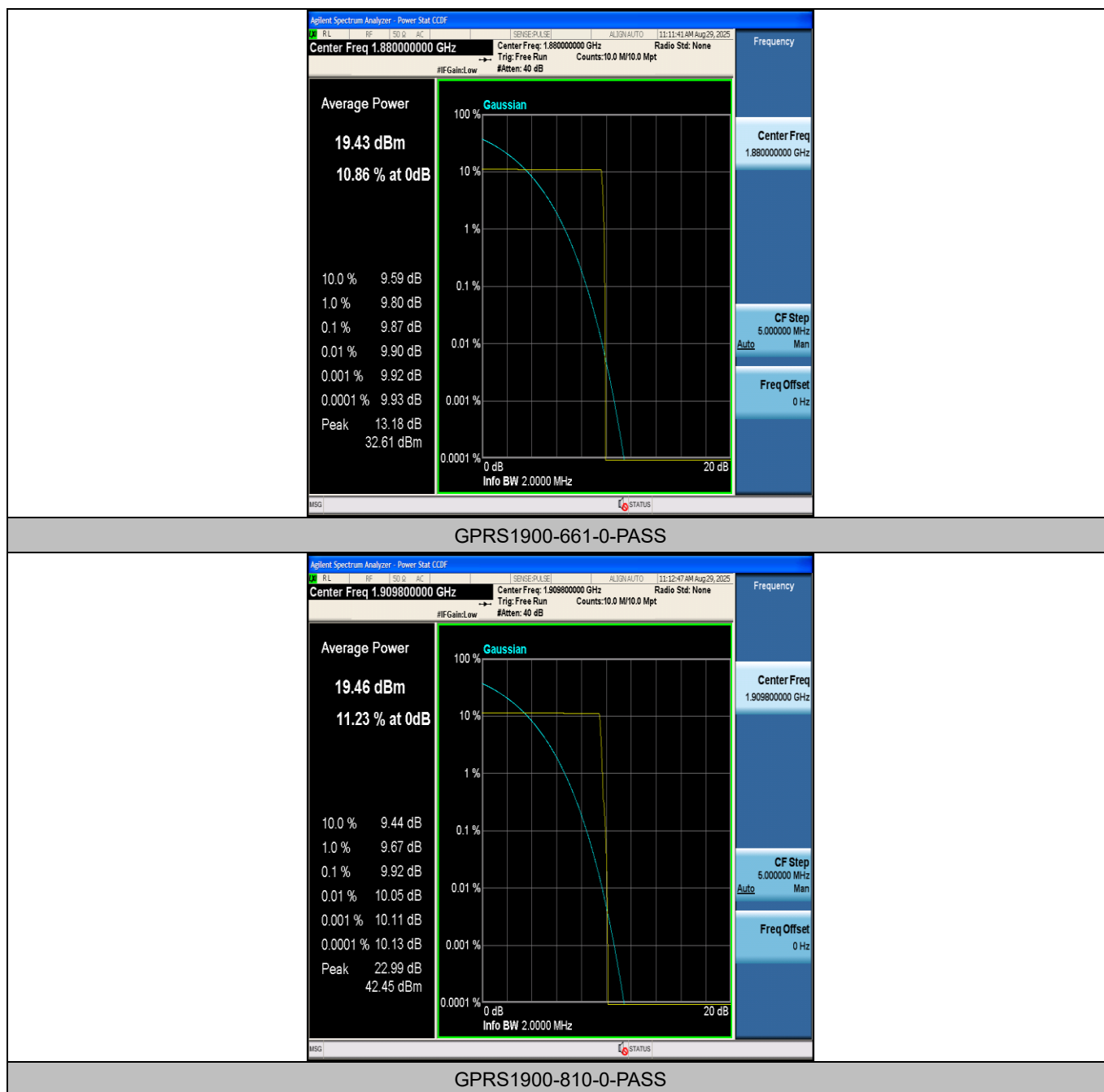










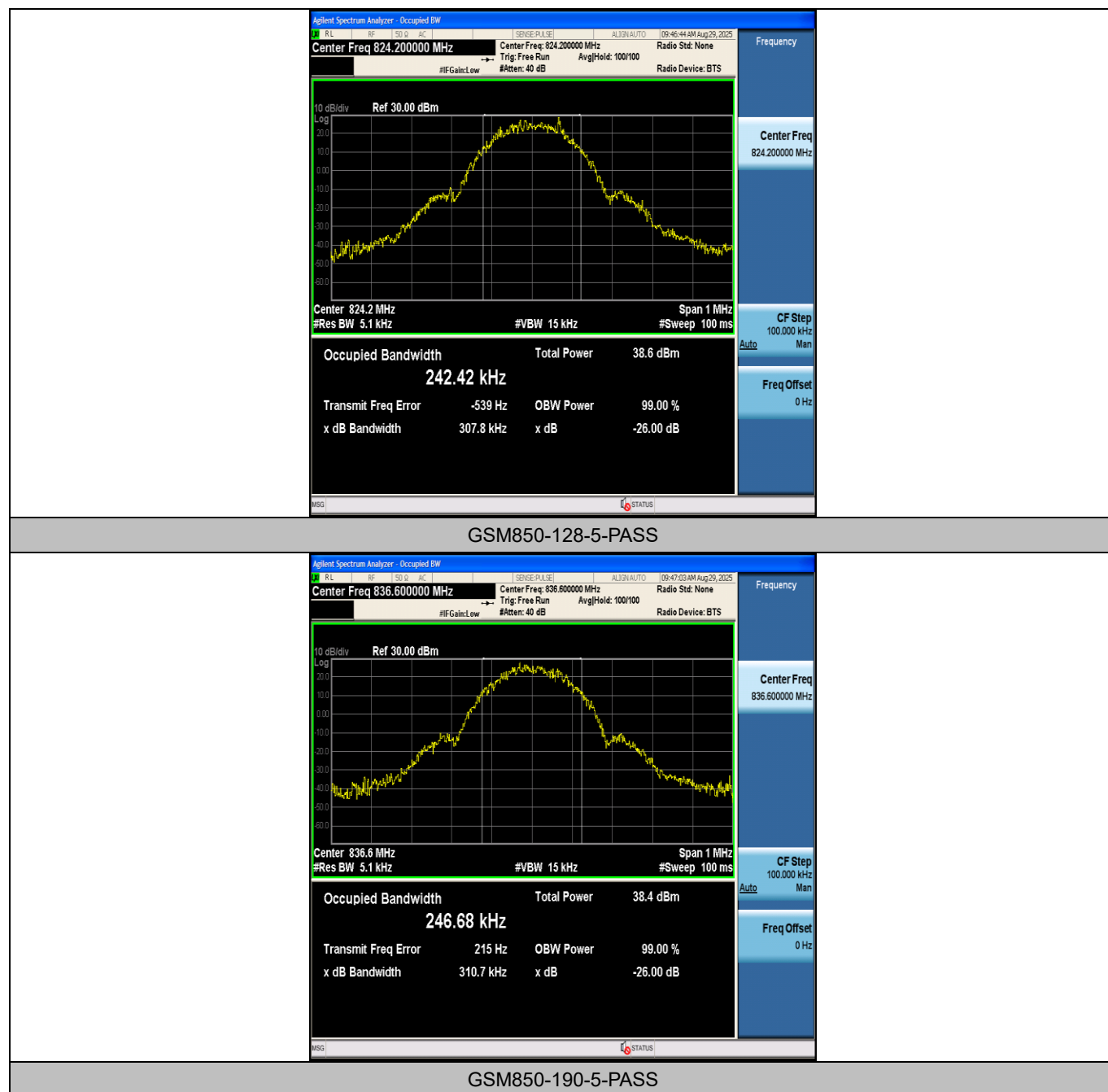


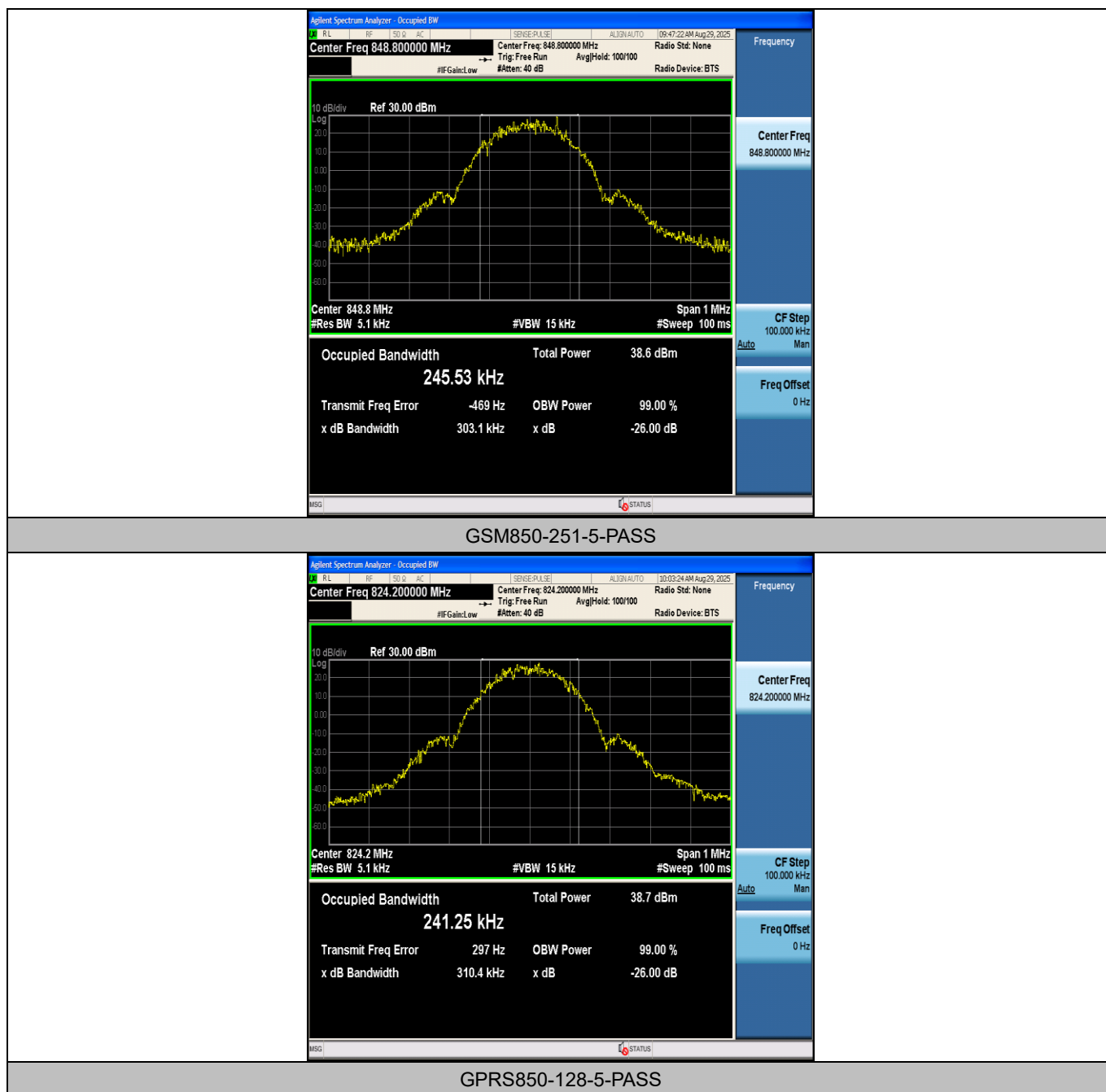
Appendix C: 26dB Bandwidth and Occupied Bandwidth

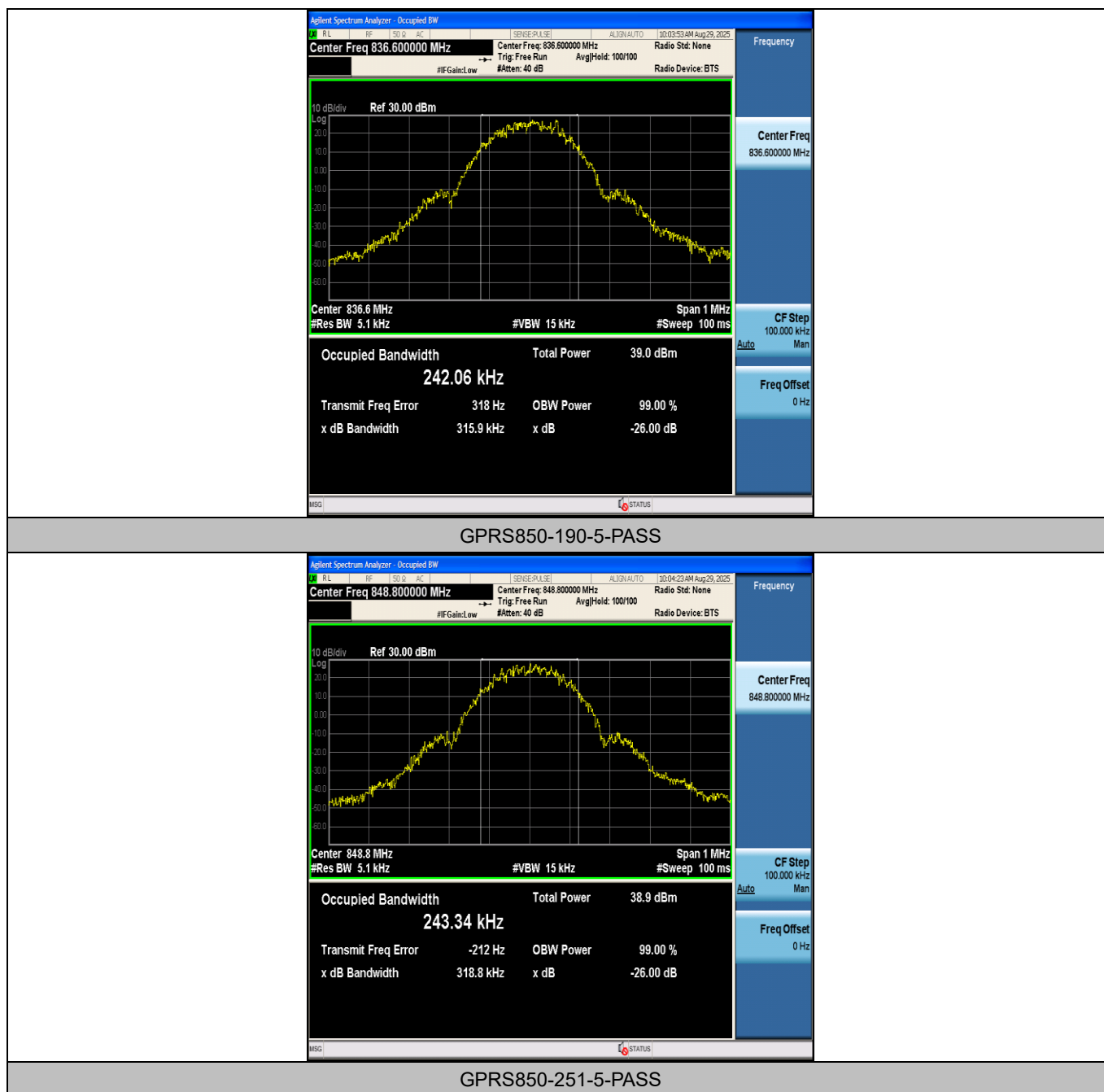
Test Result

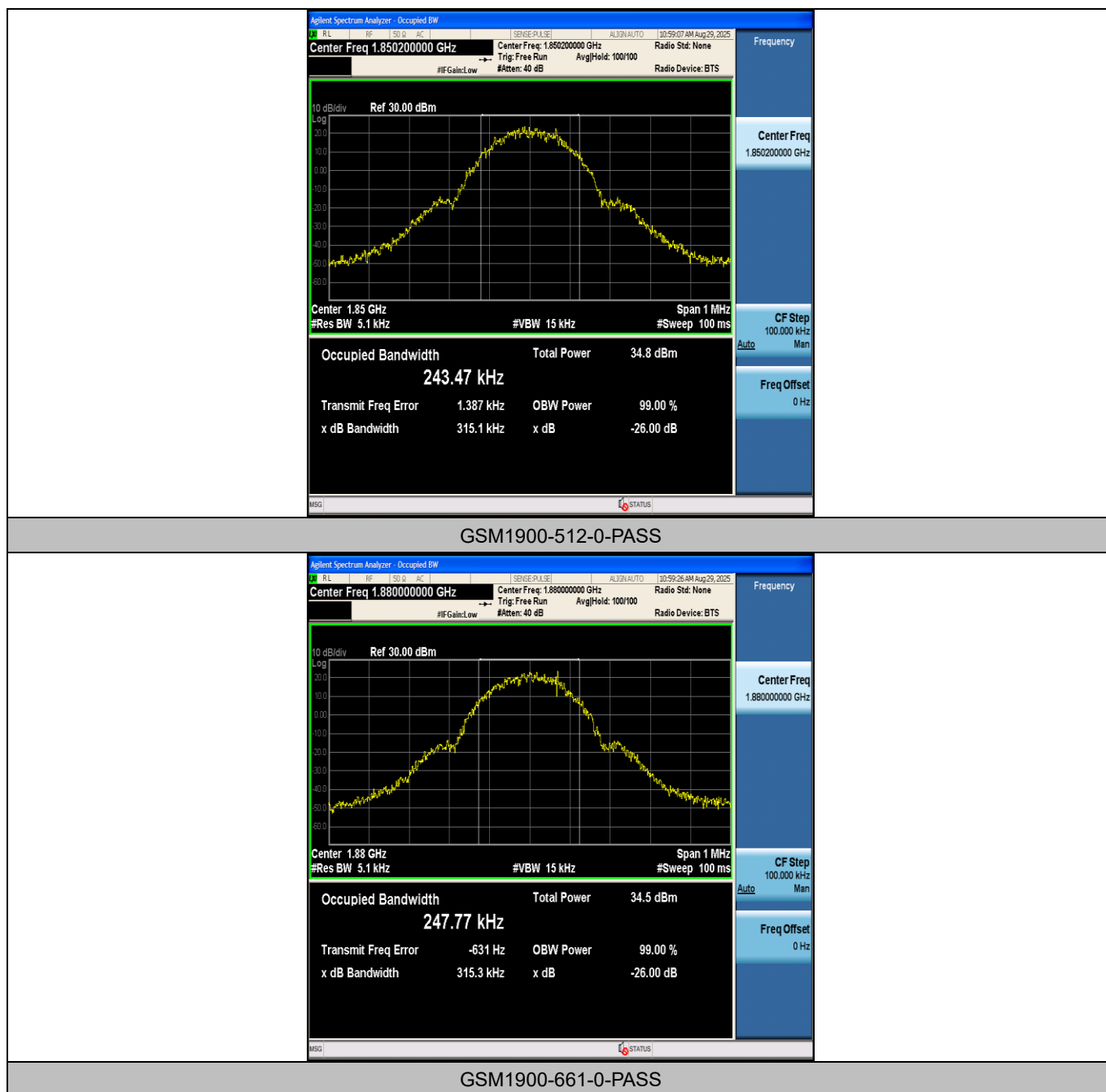
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24242	0.3078	---	PASS
GSM850	190	0.24668	0.3107	---	PASS
GSM850	251	0.24553	0.3031	---	PASS
GPRS850	128	0.24125	0.3104	---	PASS
GPRS850	190	0.24206	0.3159	---	PASS
GPRS850	251	0.24334	0.3188	---	PASS
GSM1900	512	0.24347	0.3151	---	PASS
GSM1900	661	0.24777	0.3153	---	PASS
GSM1900	810	0.24472	0.3140	---	PASS
GPRS1900	512	0.24186	0.3125	---	PASS
GPRS1900	661	0.24376	0.3121	---	PASS
GPRS1900	810	0.24559	0.3109	---	PASS

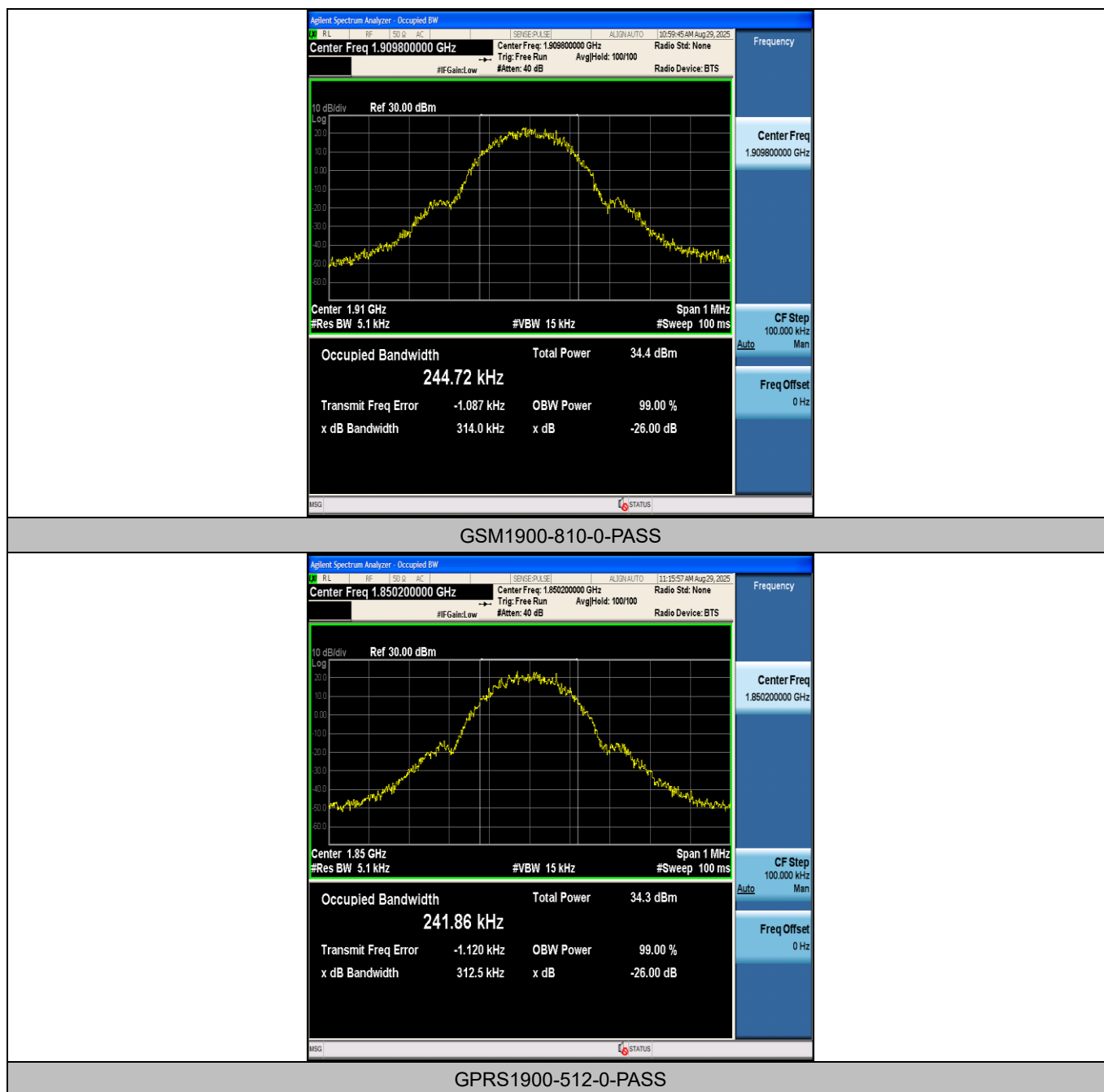
Test Graphs

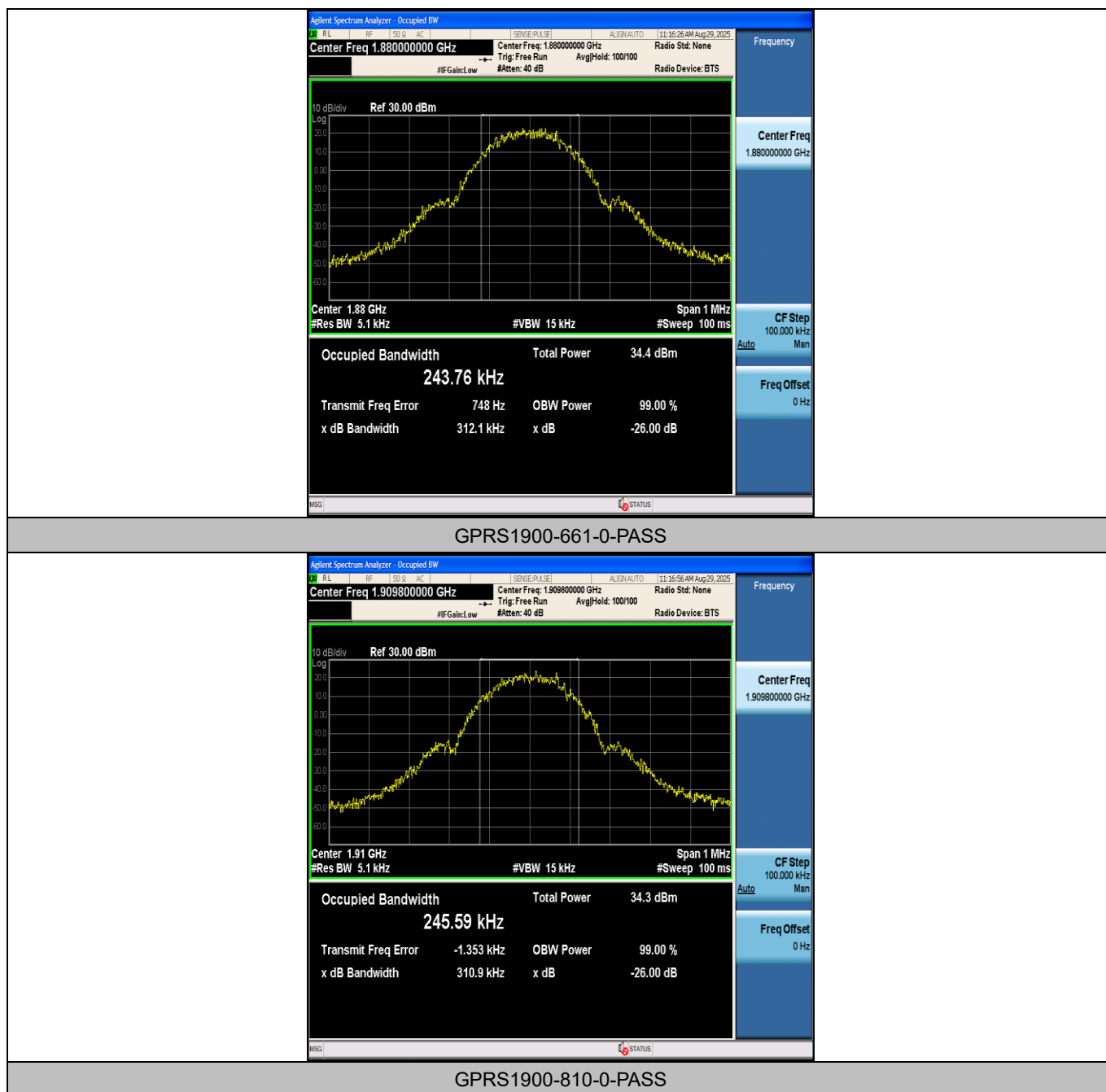












Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-25.20	-13	PASS
GSM850	251	849.02	-24.83	-13	PASS
GPRS850	128	823.98	-24.87	-13	PASS
GPRS850	251	849.02	-24.76	-13	PASS
GSM1900	512	1849.98	-30.21	-13	PASS
GSM1900	810	1910.02	-30.40	-13	PASS
GPRS1900	512	1849.98	-29.67	-13	PASS
GPRS1900	810	1910.02	-27.79	-13	PASS

Test Graphs

