

TEST REPORT

Applicant: Hankook Technology Commerce Limited

Address of Applicant: FLAT E, 23/F GOLDEN SUN CENTRE 56-67 BONHAM
STRAND WEST SHEUNG WAN HK

Manufacturer Hankook Technology Commerce Limited

Address of FLAT E, 23/F GOLDEN SUN CENTRE 56-67 BONHAM

Manufacturer: STRAND WEST SHEUNG WAN HK

Equipment Under Test (EUT)

Product Name: 5G Mobile Phone

Model No.: NX809J

FCC ID: 2BTCR-NX809J

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22
FCC CFR Title 47 Part 24
FCC CFR Title 47 Part 27
FCC CFR Title 47 Part 90

Date of sample receipt: November 18, 2025

Date of Test: November 19, 2025-December 25, 2025

Date of report issued: December 25, 2025

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Robinson Luo

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	December 25, 2025	Original

Tested By:

Josh. Gai

Date:

December 25, 2025

Test Engineer

Prepared By:

Jessie Lu

Date:

December 25, 2025

Project Engineer

Check By:

Robinson Lu

Date:

December 25, 2025

Reviewer

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 GENERAL DESCRIPTION OF EUT	5
5.2 EUT ANTENNA INFORMATION.....	6
5.3 MAXIMUM ERP/EIRP, FREQUENCY TOLERANCE AND EMISSION DESIGNATOR.....	7
5.4 RELATED SUBMITTAL(S) / GRANT (S).....	18
5.5 TEST METHODOLOGY	18
5.6 DEVIATION FROM STANDARDS.....	18
5.7 TEST FACILITY.....	18
5.8 TEST LOCATION	18
6 TEST INSTRUMENTS LIST	19
7 SYSTEM TEST CONFIGURATION	21
7.1 TEST MODE	21
7.2 CONFIGURATION OF TESTED SYSTEM	22
7.3 CONDUCTED OUTPUT POWER & E.R.P. & E.I.R.P.....	23
7.4 PEAK-TO-AVERAGE RATIO.....	24
7.5 99% OCCUPIED BANDWIDTH & 26dB EMISSIONS BANDWIDTH	25
7.6 MODULATION CHARACTERISTIC.....	26
7.7 OUT OF BAND EMISSION AT ANTENNA TERMINALS	26
7.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	27
7.9 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	33
7.10 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	34
8 TEST SETUP PHOTO	35
9 EUT CONSTRUCTIONAL DETAILS	35

4 Test Summary

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 24.232 (c) Part 22.913 (a)(5) Part 90.635 (b) Part 27.50 (h)(2) Part 27.50 (d)(4) Part 27.50 (k)(3)	Pass
Peak-to-Average Ratio	Part 22.913 (d) Part 24.232 (d) Part 27.50 (d)(5) Part 27.50 (k)(4)	Pass
99% Occupied Bandwidth & 26dB Emissions Bandwidth	Part 2.1049	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (m)(4) Part 27.53 (h) Part 90.691 (a) Part 27.53 (n)(2)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (g) Part 27.53 (m)(4) Part 90.691 (a)	Pass
Out of band emission, Band Edge	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (g) Part 27.53 (m)(4) Part 90.691 (a)	Pass
Frequency stability vs. temperature	Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a)	Pass
Frequency stability vs. voltage	Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a)	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. N/A: Not applicable.

5 General Information

5.1 General Description of EUT

Product Name	5G Mobile Phone	
Model No.	NX809J	
Tested Sample(s) ID:	GTSL2025120078F-2, GTSL2025120078F-3	
Sample(s) Status:	Engineer sample	
Support Bands:	SA: NR Band n2/n5/n7/n26/n41/n66/n77/n78	
SCS support	NR Band n2/n5/n7/n25/n26/n66: 15kHz NR Band n41/n77/n78: 30kHz	
Frequency Range(Tx)	NR Band n2: 1850MHz~1910MHz NR Band n5: 824MHz~849MHz NR Band n7: 2500MHz~2570MHz NR Band n26(Part 90): 814MHz~824MHz NR Band n26(Part 22): 824MHz~849MHz NR Band n41: 2496MHz~2690MHz NR Band n66: 1710MHz~1780MHz NR Band n77: 3450MHz~3550MHz NR Band n78: 3450MHz~3550MHz	
Channel Bandwidth	NR Band n2/n7/n66:	5MHz/10MHz/15MHz/20MHz
	NR Band n5:	5MHz/10MHz/15MHz/20MHz
	NR Band n26 (Part 22):	5MHz/10MHz/15MHz/20MHz
	NR Band n26 (Part 90):	5MHz/10MHz
	NR Band n41/n77/n78:	10MHz/20MHz/30MHz/40MHz/50MHz/ 60MHz/70MHz/80MHz/90MHz/100MHz
Modulation Type	DFT-s-OFDM:	DFT-s-Pi/2-BPSK, DFT-s-QPSK, DFT-s-16QAM, DFT-s-64QAM, DFT-s-256QAM
	CP-OFDM:	CP-QPSK, CP-16-QAM, CP-64QAM, CP-256-QAM
Antenna Type	Internal Antenna	
Power supply	Rechargeable Li-ion Polymer Battery DC 3.79V/7500mAh	

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

5.2 EUT Antenna Information

The antenna gains and types provided by the manufacturer are as follows:

NR Bands	Frequency Range (MHz)	Antenna Gain (dBi)					
		Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 10
Band n2	1850~1910	-0.65	/	/	-4.6	/	/
Band n5	824~849	/	/	-3.2		-3.6	/
Band n7	2500~2570	-1.13	/	/	-2.6	/	/
Band n26	814~849	/	/	-3.3	/	-3.5	/
Band n41	2496~2690	-1.0	-3.05	-3.89	-1.8	/	/
Band n66	1710~1780	-1.5	/	/	-4.6	/	/
Band n77	3450~3550	/	-1.5	-6.1	-3.43	/	-4.8
Band n78	3450~3550	/	-1.5	-6.1	-3.43	/	-4.8

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

5.3 Maximum ERP/EIRP, Frequency Tolerance and Emission Designator

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n2	DFT-s-BPSK	5	4M48G7D	—	0.184
NR Band n2	DFT-s-QPSK	5	4M48G7D	—	0.187
NR Band n2	DFT-s-16QAM	5	4M47W7D	—	0.146
NR Band n2	DFT-s-BPSK	10	8M93G7D	—	0.192
NR Band n2	DFT-s-QPSK	10	8M95G7D	—	0.187
NR Band n2	DFT-s-16QAM	10	8M96W7D	—	0.135
NR Band n2	DFT-s-BPSK	15	13M4G7D	—	0.186
NR Band n2	DFT-s-QPSK	15	13M4G7D	—	0.184
NR Band n2	DFT-s-16QAM	15	13M4W7D	—	0.148
NR Band n2	DFT-s-BPSK	20	17M8G7D	—	0.178
NR Band n2	DFT-s-QPSK	20	17M8G7D	—	0.178
NR Band n2	DFT-s-16QAM	20	17M8W7D	—	0.148
NR Band n2	DFT-s-BPSK	25	22M9G7D	—	0.181
NR Band n2	DFT-s-QPSK	25	22M8G7D	—	0.180
NR Band n2	DFT-s-16QAM	25	22M8W7D	—	0.140
NR Band n2	DFT-s-BPSK	30	26M6G7D	—	0.179
NR Band n2	DFT-s-QPSK	30	26M6G7D	—	0.180
NR Band n2	DFT-s-16QAM	30	26M5W7D	—	0.146
NR Band n2	DFT-s-BPSK	40	38M6G7D	-0.00391	0.178
NR Band n2	DFT-s-QPSK	40	38M5G7D	—	0.178
NR Band n2	DFT-s-16QAM	40	38M5W7D	—	0.134

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
NR Band n5	DFT-s-BPSK	5	4M48G7D	—	0.061
NR Band n5	DFT-s-QPSK	5	4M47G7D	—	0.060
NR Band n5	DFT-s-16QAM	5	4M47W7D	—	0.046
NR Band n5	DFT-s-BPSK	10	8M93G7D	—	0.060
NR Band n5	DFT-s-QPSK	10	8M93G7D	—	0.057
NR Band n5	DFT-s-16QAM	10	8M93W7D	—	0.045
NR Band n5	DFT-s-BPSK	15	13M4G7D	—	0.060
NR Band n5	DFT-s-QPSK	15	13M4G7D	—	0.060
NR Band n5	DFT-s-16QAM	15	13M4W7D	—	0.050
NR Band n5	DFT-s-BPSK	20	17M8G7D	-0.008105	0.059
NR Band n5	DFT-s-QPSK	20	17M8G7D	—	0.059
NR Band n5	DFT-s-16QAM	20	17M8W7D	—	0.048

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n7	DFT-s-BPSK	5	4M47G7D	—	0.194
NR Band n7	DFT-s-QPSK	5	4M48G7D	—	0.179
NR Band n7	DFT-s-16QAM	5	4M47W7D	—	0.145
NR Band n7	DFT-s-BPSK	10	8M94G7D	—	0.187
NR Band n7	DFT-s-QPSK	10	8M95G7D	—	0.200
NR Band n7	DFT-s-16QAM	10	8M96W7D	—	0.140
NR Band n7	DFT-s-BPSK	15	13M4G7D	—	0.188
NR Band n7	DFT-s-QPSK	15	13M4G7D	—	0.184
NR Band n7	DFT-s-16QAM	15	13M4W7D	—	0.154
NR Band n7	DFT-s-BPSK	20	17M8G7D	—	0.186
NR Band n7	DFT-s-QPSK	20	17M8G7D	—	0.190
NR Band n7	DFT-s-16QAM	20	17M8W7D	—	0.150
NR Band n7	DFT-s-BPSK	25	22M9G7D	—	0.185
NR Band n7	DFT-s-QPSK	25	22M8G7D	—	0.185
NR Band n7	DFT-s-16QAM	25	22M8W7D	—	0.150
NR Band n7	DFT-s-BPSK	30	28M5G7D	—	0.185
NR Band n7	DFT-s-QPSK	30	28M5G7D	—	0.188
NR Band n7	DFT-s-16QAM	30	28M5W7D	—	0.147
NR Band n7	DFT-s-BPSK	40	38M5G7D	-0.001633	0.190
NR Band n7	DFT-s-QPSK	40	38M5G7D	—	0.187
NR Band n7	DFT-s-16QAM	40	38M5W7D	—	0.150

NR Band n26 (814-824MHz):

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
NR Band n26	DFT-s-BPSK	5	4M48G7D	—	0.060
NR Band n26	DFT-s-QPSK	5	4M54G7D	—	0.059
NR Band n26	DFT-s-16QAM	5	4M47W7D	—	0.046
NR Band n26	DFT-s-BPSK	10	8M94G7D	-0.001941	0.061
NR Band n26	DFT-s-QPSK	10	8M95G7D	—	0.058
NR Band n26	DFT-s-16QAM	10	8M92W7D	—	0.043

NR Band n26 (824-849MHz):

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n26	DFT-s-BPSK	5	4M48G7D	—	0.062
NR Band n26	DFT-s-QPSK	5	4M50G7D	—	0.062
NR Band n26	DFT-s-16QAM	5	4M48W7D	—	0.050
NR Band n26	DFT-s-BPSK	10	8M93G7D	—	0.058
NR Band n26	DFT-s-QPSK	10	8M94G7D	—	0.057
NR Band n26	DFT-s-16QAM	10	8M95W7D	—	0.044
NR Band n26	DFT-s-BPSK	15	13M4G7D	—	0.058
NR Band n26	DFT-s-QPSK	15	13M4G7D	—	0.059
NR Band n26	DFT-s-16QAM	15	13M4W7D	—	0.048
NR Band n26	DFT-s-BPSK	20	17M9G7D	-0.008978	0.056
NR Band n26	DFT-s-QPSK	20	17M9G7D	—	0.058
NR Band n26	DFT-s-16QAM	20	17M9W7D	—	0.048

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n41	DFT-s-BPSK	10	8M59G7D	—	0.443
NR Band n41	DFT-s-QPSK	10	8M60G7D	—	0.440
NR Band n41	DFT-s-16QAM	10	8M59W7D	—	0.347
NR Band n41	DFT-s-BPSK	20	17M9G7D	—	0.420
NR Band n41	DFT-s-QPSK	20	17M9G7D	—	0.411
NR Band n41	DFT-s-16QAM	20	17M8W7D	—	0.313
NR Band n41	DFT-s-BPSK	30	26M8G7D	—	0.421
NR Band n41	DFT-s-QPSK	30	26M9G7D	—	0.414
NR Band n41	DFT-s-16QAM	30	26M8W7D	—	0.310
NR Band n41	DFT-s-BPSK	40	35M6G7D	—	0.406
NR Band n41	DFT-s-QPSK	40	35M6G7D	—	0.400
NR Band n41	DFT-s-16QAM	40	35M7W7D	—	0.322
NR Band n41	DFT-s-BPSK	50	45M6G7D	—	0.425
NR Band n41	DFT-s-QPSK	50	45M7G7D	—	0.433
NR Band n41	DFT-s-16QAM	50	45M6W7D	—	0.308
NR Band n41	DFT-s-BPSK	60	57M7G7D	—	0.409
NR Band n41	DFT-s-QPSK	60	57M7G7D	—	0.397
NR Band n41	DFT-s-16QAM	60	57M7W7D	—	0.310
NR Band n41	DFT-s-BPSK	70	64M1G7D	—	0.409
NR Band n41	DFT-s-QPSK	70	64M1G7D	—	0.402
NR Band n41	DFT-s-16QAM	70	64M1W7D	—	0.313
NR Band n41	DFT-s-BPSK	80	77M0G7D	—	0.403
NR Band n41	DFT-s-QPSK	80	76M9G7D	—	0.412
NR Band n41	DFT-s-16QAM	80	76M9W7D	—	0.308
NR Band n41	DFT-s-BPSK	90	86M7G7D	—	0.405
NR Band n41	DFT-s-QPSK	90	86M6G7D	—	0.405
NR Band n41	DFT-s-16QAM	90	86M5W7D	—	0.321

NR Band n41	DFT-s-BPSK	100	96M2G7D	-0.003972	0.402
NR Band n41	DFT-s-QPSK	100	96M6G7D	—	0.405
NR Band n41	DFT-s-16QAM	100	96M2W7D	—	0.313

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n66	DFT-s-BPSK	5	4M48G7D	—	0.156
NR Band n66	DFT-s-QPSK	5	4M46G7D	—	0.148
NR Band n66	DFT-s-16QAM	5	4M46W7D	—	0.126
NR Band n66	DFT-s-BPSK	10	8M92G7D	—	0.149
NR Band n66	DFT-s-QPSK	10	8M92G7D	—	0.148
NR Band n66	DFT-s-16QAM	10	8M94W7D	—	0.112
NR Band n66	DFT-s-BPSK	15	13M4G7D	—	0.157
NR Band n66	DFT-s-QPSK	15	13M4G7D	—	0.151
NR Band n66	DFT-s-16QAM	15	13M4W7D	—	0.119
NR Band n66	DFT-s-BPSK	20	17M8G7D	—	0.147
NR Band n66	DFT-s-QPSK	20	17M8G7D	—	0.145
NR Band n66	DFT-s-16QAM	20	17M8W7D	—	0.120
NR Band n66	DFT-s-BPSK	25	22M6G7D	—	0.147
NR Band n66	DFT-s-QPSK	25	22M8G7D	—	0.148
NR Band n66	DFT-s-16QAM	25	22M8W7D	—	0.117
NR Band n66	DFT-s-BPSK	30	28M5G7D	—	0.150
NR Band n66	DFT-s-QPSK	30	28M5G7D	—	0.149
NR Band n66	DFT-s-16QAM	30	28M5W7D	—	0.123
NR Band n66	DFT-s-BPSK	40	38M4G7D	-0.000808	0.148
NR Band n66	DFT-s-QPSK	40	38M4G7D	—	0.144
NR Band n66	DFT-s-16QAM	40	38M4W7D	—	0.120

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n77	DFT-s-BPSK	10	8M58G7D	—	0.154
NR Band n77	DFT-s-QPSK	10	8M60G7D	—	0.153
NR Band n77	DFT-s-16QAM	10	8M59W7D	—	0.126
NR Band n77	DFT-s-BPSK	20	17M9G7D	—	0.149
NR Band n77	DFT-s-QPSK	20	17M9G7D	—	0.147
NR Band n77	DFT-s-16QAM	20	17M8W7D	—	0.112
NR Band n77	DFT-s-BPSK	30	26M8G7D	—	0.153
NR Band n77	DFT-s-QPSK	30	26M8G7D	—	0.151
NR Band n77	DFT-s-16QAM	30	26M8W7D	—	0.121
NR Band n77	DFT-s-BPSK	40	35M6G7D	—	0.151
NR Band n77	DFT-s-QPSK	40	35M7G7D	—	0.146
NR Band n77	DFT-s-16QAM	40	35M7W7D	—	0.110
NR Band n77	DFT-s-BPSK	50	45M7G7D	—	0.156
NR Band n77	DFT-s-QPSK	50	45M7G7D	—	0.153
NR Band n77	DFT-s-16QAM	50	45M6W7D	—	0.122
NR Band n77	DFT-s-BPSK	60	57M8G7D	—	0.143
NR Band n77	DFT-s-QPSK	60	57M8G7D	—	0.142
NR Band n77	DFT-s-16QAM	60	57M8W7D	—	0.112
NR Band n77	DFT-s-BPSK	70	64M1G7D	—	0.149
NR Band n77	DFT-s-QPSK	70	64M1G7D	—	0.147
NR Band n77	DFT-s-16QAM	70	64M2W7D	—	0.116
NR Band n77	DFT-s-BPSK	80	77M1G7D	—	0.149
NR Band n77	DFT-s-QPSK	80	77M0G7D	—	0.147
NR Band n77	DFT-s-16QAM	80	77M0W7D	—	0.117
NR Band n77	DFT-s-BPSK	90	86M8G7D	—	0.150
NR Band n77	DFT-s-QPSK	90	86M7G7D	—	0.149
NR Band n77	DFT-s-16QAM	90	86M5W7D	—	0.118

NR Band n77	DFT-s-BPSK	100	96M2G7D	0.002137	0.148
NR Band n77	DFT-s-QPSK	100	96M5G7D	—	0.147
NR Band n77	DFT-s-16QAM	100	96M4W7D	—	0.112

NR Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n78	DFT-s-BPSK	10	8M58G7D	—	0.299
NR Band n78	DFT-s-QPSK	10	8M58G7D	—	0.294
NR Band n78	DFT-s-16QAM	10	8M60W7D	—	0.210
NR Band n78	DFT-s-BPSK	20	17M9G7D	—	0.295
NR Band n78	DFT-s-QPSK	20	17M9G7D	—	0.291
NR Band n78	DFT-s-16QAM	20	17M8W7D	—	0.224
NR Band n78	DFT-s-BPSK	30	26M8G7D	—	0.295
NR Band n78	DFT-s-QPSK	30	26M8G7D	—	0.296
NR Band n78	DFT-s-16QAM	30	26M8W7D	—	0.225
NR Band n78	DFT-s-BPSK	40	35M7G7D	—	0.295
NR Band n78	DFT-s-QPSK	40	35M7G7D	—	0.286
NR Band n78	DFT-s-16QAM	40	35M7W7D	—	0.214
NR Band n78	DFT-s-BPSK	50	45M5G7D	—	0.302
NR Band n78	DFT-s-QPSK	50	45M6G7D	—	0.294
NR Band n78	DFT-s-16QAM	50	45M8W7D	—	0.230
NR Band n78	DFT-s-BPSK	60	57M7G7D	—	0.302
NR Band n78	DFT-s-QPSK	60	57M8G7D	—	0.294
NR Band n78	DFT-s-16QAM	60	57M7W7D	—	0.230
NR Band n78	DFT-s-BPSK	70	64M3G7D	—	0.286
NR Band n78	DFT-s-QPSK	70	64M3G7D	—	0.285
NR Band n78	DFT-s-16QAM	70	64M1W7D	—	0.223
NR Band n78	DFT-s-BPSK	80	76M9G7D	—	0.292
NR Band n78	DFT-s-QPSK	80	77M1G7D	—	0.290
NR Band n78	DFT-s-16QAM	80	77M0W7D	—	0.221
NR Band n78	DFT-s-BPSK	90	86M6G7D	—	0.299
NR Band n78	DFT-s-QPSK	90	86M7G7D	—	0.292
NR Band n78	DFT-s-16QAM	90	86M6W7D	—	0.236

NR Band n78	DFT-s-BPSK	100	96M3G7D	0.002809	0.288
NR Band n78	DFT-s-QPSK	100	96M5G7D	—	0.300
NR Band n78	DFT-s-16QAM	100	96M2W7D	—	0.224

5.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22/27 of the FCC CFR 47 Rules.

5.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on ANSI C63.26:2015 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

5.6 Deviation from Standards

None.

5.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED—Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.8 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 11, 2025	Apr. 10, 2026
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 12, 2025	Apr. 11, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 12, 2025	Apr. 11, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 01, 2025	Jun. 30, 2026
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.15, 2025	Nov.14, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2025	Apr. 10, 2026
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHZ-300MHZ	GTS692	Nov. 12, 2025	Nov. 11, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 15, 2025	Apr. 14, 2026
16	RE cable 1	GTS	N/A	GTS675	Jul. 11, 2025	Jul. 10, 2026
17	RE cable 2	GTS	N/A	GTS676	Jul. 11, 2025	Jul. 10, 2026
18	RE cable 3	GTS	N/A	GTS677	Jul. 11, 2025	Jul. 10, 2026
19	RE cable 4	GTS	N/A	GTS678	Jul. 11, 2025	Jul. 10, 2026
20	RE cable 5	GTS	N/A	GTS679	Jul. 11, 2025	Jul. 10, 2026
21	RE cable 6	GTS	N/A	GTS680	Jul. 11, 2025	Jul. 10, 2026
22	RE cable 7	GTS	N/A	GTS681	Jul. 11, 2025	Jul. 10, 2026
23	RE cable 8	GTS	N/A	GTS682	Jul. 11, 2025	Jul. 10, 2026
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 11, 2025	Apr. 10, 2026
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 12, 2025	Apr. 11, 2026
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 11, 2025	Apr. 10, 2026
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 11, 2025	Apr. 10, 2026
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 11, 2025	Apr. 10, 2026
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 11, 2025	Apr. 10, 2026
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 11, 2025	Apr. 10, 2026
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 11, 2025	Apr. 10, 2026
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 15, 2025	Apr. 14, 2026

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 16, 2025	Jul. 15, 2026

7 System test configuration

7.1 Test mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

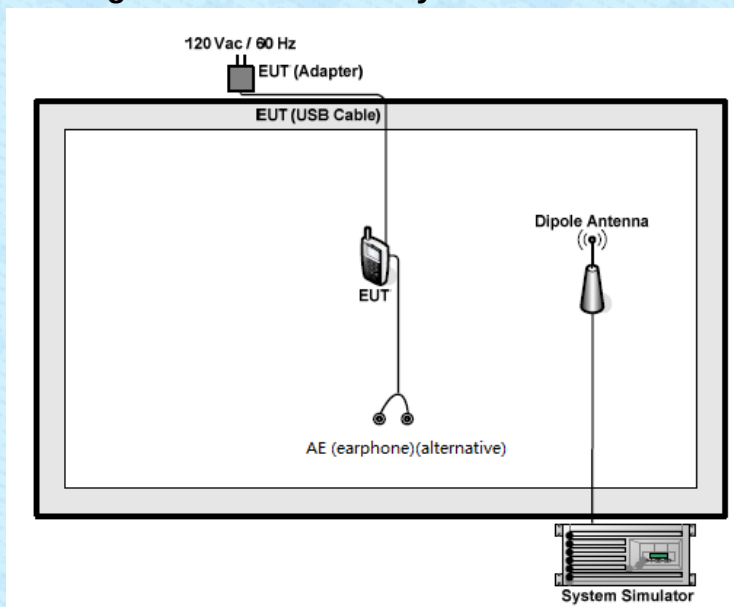
Radiated measurements are performed by rotating the EUT in three(X: flat, Y: portrait, Z: landscape) different orthogonal test planes to find the maximum emission.

LTE Bands	Conducted Measurement	Radiated Measurement	Antenna Direction(Axis)
NR Band n2	Ant1	Ant1	Y
NR Band n7	Ant1	Ant1	Y
NR Band n66	Ant1	Ant1	Y
NR Band n5/n26	Ant5	Ant3	Y
NR Band n41	Ant4	Ant4	Y
NR Band n77/n78	Ant3	Ant2	Y
Note: Conducted output power is measured on all antenna ports, other conducted items are measured on the maximum output power port.			

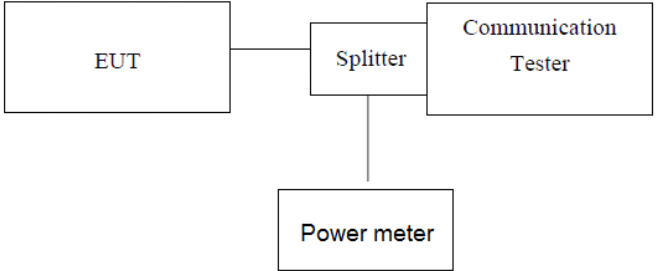
Test Items	Band	Bandwidth(MHz)	Modulation	RB Configuration	Test Channel
Conducted Output Power and ERP/EIRP	n2/n7/n66	5, 10, 15, 20, 25, 30, 40	All DFT-s--OFDM All CP-OFDM	Inner_1RB Inner_Full Outer_Full	L, M, H
	n5	5, 10, 15, 20			
	n26_part 22	5, 10, 15, 20			
	n26_part 90	5, 10			
	n41/n77/n78	10, 20, 30, 40, 50, 60, 70, 80, 90, 100			
Peak-to-Average Ratio	n2/n7/n66	5, 10, 15, 20, 25, 30, 40	DFT-s-256QAM CP-256QAM	Outer_Full	M
	n5	5, 10, 15, 20			
	n26_part 22	5, 10, 15, 20			
	n26_part 90	5, 10			
	n41/n77/n78	10, 20, 30, 40, 50, 60, 70, 80, 90, 100			
99% OBW and 26dB EBW	n2/n7/n66	5, 10, 15, 20, 25, 30, 40	DFT-s-PI/2-BPSK DFT-s-QPSK DFT-s-16QAM	Outer_Full	M
	n5	5, 10, 15, 20			
	n26_part 22	5, 10, 15, 20			
	n26_part 90	5, 10			
	n41/n77/n78	10, 20, 30, 40, 50, 60, 70, 80, 90, 100			
Conducted Band Edge	n2/n7/n66	5, 10, 15, 20, 25, 30, 40	DFT-s-PI/2-BPSK	Edge_1RB Outer_Full	L, H
	n5	5, 10, 15, 20			
	n26_part 22	5, 10, 15, 20			
	n26_part 90	5, 10			

	n41/n77/n78	10, 20, 30, 40, 50, 60,70, 80, 90, 100			
Conducted Spurious Emission	n2/n7/n66	40	DFT-s-PI/2-BPSK	Inner_1RB	L, M, H
	n5	20			
	n26_part 22	20			
	n26_part 90	10			
	n41/n77/n78	100			
Frequency Stability	n2/n7/n66	40	DFT-s-PI/2-BPSK	Outer_Full	M
	n5	20			
	n26_part 22	20			
	n26_part 90	10			
	n41/n77/n78	100			
Radiated Spurious Emission	n2/n7/n66	40	DFT-s-PI/2-BPSK	Inner_1RB	M
	n5	20			
	n26_part 22	20			
	n26_part 90	10			
	n41/n77/n78	100			
Note 1: All bandwidths, all transmission schemes(DFT-s--OFDM, CP-OFDM), all RB configurations, all channels have been evaluated, only the worst test results are reflected in the report.					

7.2 Configuration of Tested System

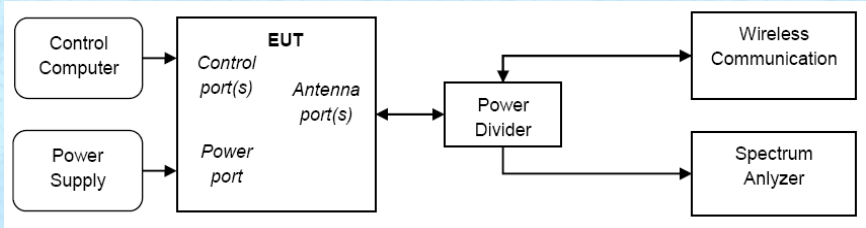


7.3 Conducted Output Power & E.R.P. & E.I.R.P.

Test Requirement:	FCC Part 2.1046, Part 24.232 (c), Part 22.913 (a)(5), Part 90.635 (b), Part 27.50 (h)(2), Part 27.50 (d)(4), Part 27.50 (k)(3)
Test Method:	FCC KDB 971168 D01 V03r01 & ANSI C63.26
Limit:	NR Band n2/n7/n41: 2W NR Band n66: 1W NR Band n5/26_Part 22: 7W NR Band n26_Part 90: 100W NR Band n77/n78: 1W
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

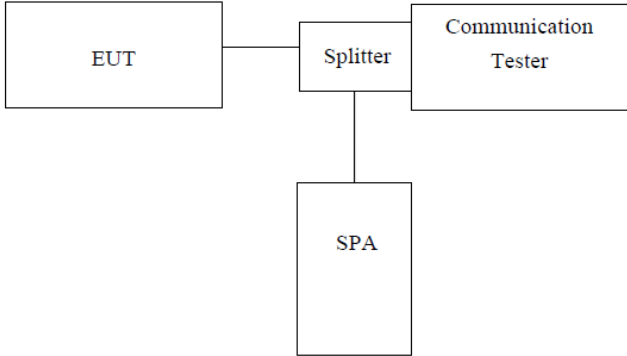
Measurement Data: The detailed test data see Appendix for NR.

7.4 Peak-to-Average Ratio

Test Requirement:	FCC Part 2.1046, Part 22.913 (d), Part 24.232 (d), Part 27.50 (d)(5), Part 27.50 (k)(4)
Test Method:	FCC KDB 971168 D01 V03r01 & ANSI C63.26
Limit:	13db
Test setup:	 <pre> graph LR CC[Control Computer] --> EUT[EUT] PS[Power Supply] --> EUT subgraph EUT CP[Control port(s)] AP[Antenna port(s)] PP[Power port] end AP <--> PD[Power Divider] PD --> WC[Wireless Communication] PD --> SA[Spectrum Analyzer] </pre>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement data: The detailed test data see Appendix for NR.

7.5 99% Occupied Bandwidth & 26dB Emissions Bandwidth

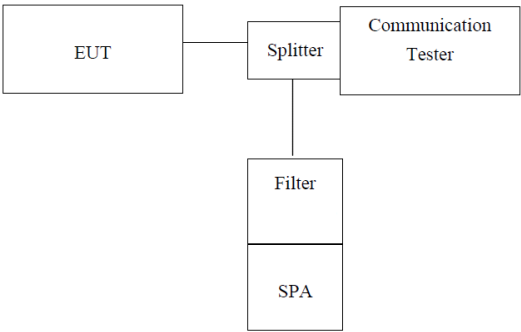
Test Requirement:	FCC Part 2.1049
Test Method:	FCC KDB 971168 D01 V03r01
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for NR.

7.6 MODULATION CHARACTERISTIC

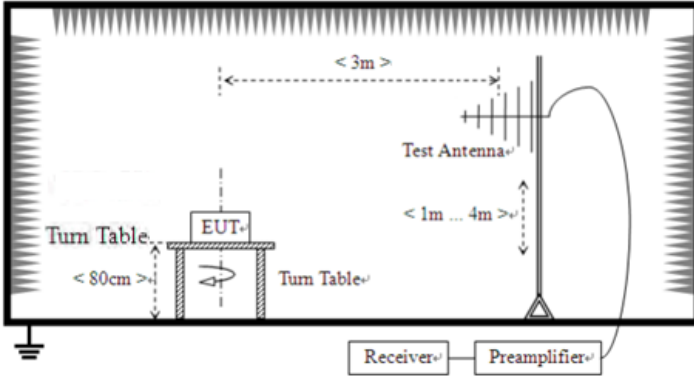
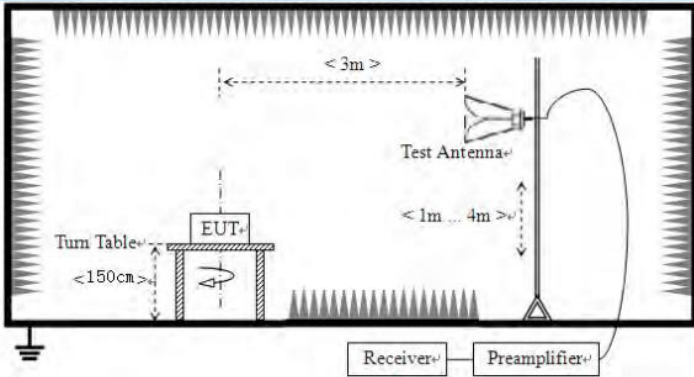
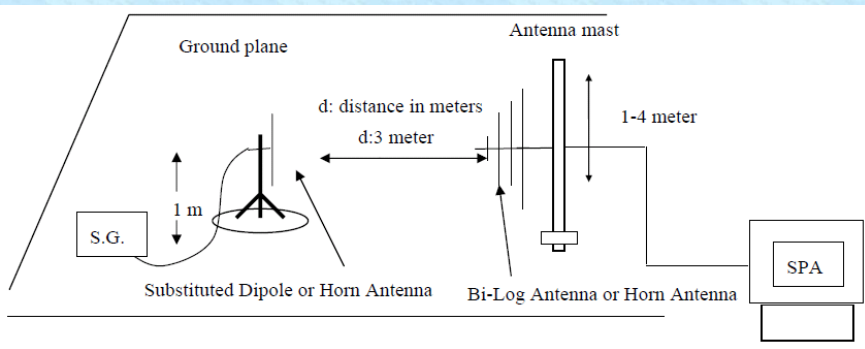
According to FCC § 2.1047(d), Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

7.7 Out of band emission at antenna terminals

Test Requirement:	FCC Part 2.1051, Part 22.917 (a), Part 24.238 (a), Part 27.53 (m)(4), Part 27.53 (h), Part 90.691 (a), Part 27.53 (n)(2)
Test Method:	FCC Part 2.1051 & FCC KDB 971168 D01 V03r01
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for NR.

7.8 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 2.1053, Part 22.917 (a), Part 24.238 (a), Part 27.53 (m)(4), Part 27.53 (h), Part 90.691 (a), Part 27.53 (n)(2)
Test Method:	FCC Part 2.1053 and ANSI C63.26:2015
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data:

All condition were test, only report worst case.

NR Band n2_20MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	50.96	-92.64	-73.40	-13.00	60.40	19.24	Horizontal
2	104.58	-93.21	-73.85	-13.00	60.85	19.36	Horizontal
3	319.88	-103.73	-76.59	-13.00	63.59	27.14	Horizontal
4	2440.12	-48.76	-45.36	-13.00	32.36	3.40	Horizontal
5	11020.67	-61.31	-38.59	-13.00	25.59	22.72	Horizontal
6	17333.81	-65.54	-36.56	-13.00	23.56	28.98	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.08	-90.55	-70.16	-13.00	57.16	20.39	Vertical
2	51.66	-92.35	-73.30	-13.00	60.30	19.05	Vertical
3	104.27	-93.13	-69.09	-13.00	56.09	24.04	Vertical
4	4806.32	-59.60	-44.87	-13.00	31.87	14.73	Vertical
5	12238.27	-61.11	-38.36	-13.00	25.36	22.75	Vertical
6	17328.33	-66.05	-37.10	-13.00	24.10	28.95	Vertical

NR Band n5_20MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.87	-89.66	-67.66	-13.00	54.66	22.00	Horizontal
2	110.89	-94.95	-75.37	-13.00	62.37	19.58	Horizontal
3	239.88	-100.20	-78.28	-13.00	65.28	21.92	Horizontal
4	2426.36	-53.26	-49.93	-13.00	36.93	3.33	Horizontal
5	6965.00	-61.22	-44.03	-13.00	31.03	17.19	Horizontal
6	14527.05	-63.88	-39.13	-13.00	26.13	24.75	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.05	-90.05	-69.66	-13.00	56.66	20.39	Vertical
2	53.04	-96.63	-77.40	-13.00	64.40	19.23	Vertical
3	102.16	-98.11	-73.84	-13.00	60.84	24.27	Vertical
4	2041.40	-54.54	-52.82	-13.00	39.82	1.72	Vertical
5	7382.26	-59.92	-40.40	-13.00	27.40	19.52	Vertical
6	14283.39	-63.93	-39.24	-13.00	26.24	24.69	Vertical

NR Band n7_40MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	50.88	-92.01	-72.77	-25.00	47.77	19.24	Horizontal
2	110.69	-93.78	-74.20	-25.00	49.20	19.58	Horizontal
3	716.35	-105.13	-71.06	-25.00	46.06	34.07	Horizontal
4	2039.42	-52.37	-50.65	-25.00	25.65	1.72	Horizontal
5	5761.49	-53.78	-39.73	-25.00	14.73	14.05	Horizontal
6	11758.31	-62.12	-38.62	-25.00	13.62	23.50	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	103.79	-92.75	-68.71	-25.00	43.71	24.04	Vertical
2	287.94	-101.29	-76.23	-25.00	51.23	25.06	Vertical
3	750.58	-105.11	-69.18	-25.00	44.18	35.93	Vertical
4	1197.70	-55.94	-58.20	-25.00	33.20	-2.26	Vertical
5	10111.81	-61.75	-39.64	-25.00	14.64	22.11	Vertical
6	13146.59	-62.48	-39.23	-25.00	14.23	23.25	Vertical

NR Band n26(Part 22)_20MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.29	-89.16	-67.16	-13.00	54.16	22.00	Horizontal
2	104.39	-94.16	-74.80	-13.00	61.80	19.36	Horizontal
3	163.06	-95.75	-74.10	-13.00	61.10	21.65	Horizontal
4	2541.89	-54.35	-50.54	-13.00	37.54	3.81	Horizontal
5	7179.39	-61.31	-42.47	-13.00	29.47	18.84	Horizontal
6	17419.70	-64.84	-35.80	-13.00	22.80	29.04	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	40.08	-93.84	-73.65	-13.00	60.65	20.19	Vertical
2	65.19	-94.24	-73.62	-13.00	60.62	20.62	Vertical
3	104.50	-93.42	-69.38	-13.00	56.38	24.04	Vertical
4	2542.02	-54.12	-50.31	-13.00	37.31	3.81	Vertical
5	4724.98	-58.04	-44.36	-13.00	31.36	13.68	Vertical
6	12210.86	-61.57	-38.80	-13.00	25.80	22.77	Vertical

NR Band n26(Part 90)_10MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.28	-89.37	-67.02	-13.00	54.02	22.35	Horizontal
2	111.52	-88.92	-69.32	-13.00	56.32	19.60	Horizontal
3	908.01	-84.27	-47.27	-13.00	34.27	37.00	Horizontal
4	2541.69	-54.56	-50.75	-13.00	37.75	3.81	Horizontal
5	10771.72	-62.00	-39.44	-13.00	26.44	22.56	Horizontal
6	17396.53	-66.58	-37.23	-13.00	24.23	29.35	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	51.83	-90.53	-71.54	-13.00	58.54	18.99	Vertical
2	104.59	-93.50	-69.46	-13.00	56.46	24.04	Vertical
3	240.17	-101.35	-77.80	-13.00	64.80	23.55	Vertical
4	2037.36	-51.86	-50.15	-13.00	37.15	1.71	Vertical
5	2542.23	-53.57	-49.76	-13.00	36.76	3.81	Vertical
6	14773.85	-63.87	-40.11	-13.00	27.11	23.76	Vertical

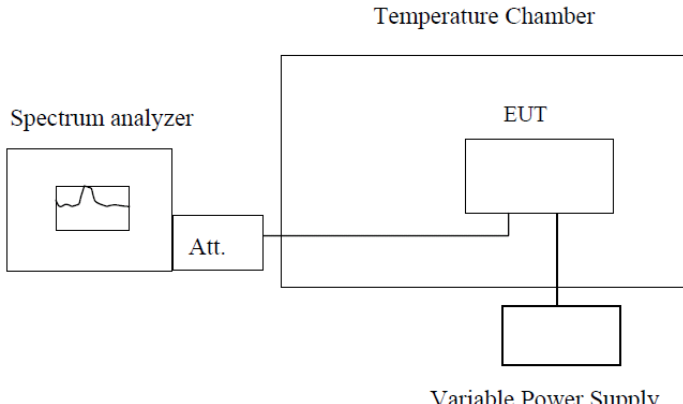
NR Band n66_20MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.97	-88.50	-66.50	-13.00	53.50	22.00	Horizontal
2	108.93	-94.38	-74.85	-13.00	61.85	19.53	Horizontal
3	354.32	-97.33	-68.47	-13.00	55.47	28.86	Horizontal
4	2821.53	-54.01	-48.51	-13.00	35.51	5.50	Horizontal
5	7205.69	-61.96	-42.95	-13.00	29.95	19.01	Horizontal
6	14256.73	-63.69	-39.18	-13.00	26.18	24.51	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	32.18	-93.76	-72.49	-13.00	59.49	21.27	Vertical
2	51.35	-91.58	-72.59	-13.00	59.59	18.99	Vertical
3	104.44	-93.24	-69.20	-13.00	56.20	24.04	Vertical
4	2038.70	-49.99	-48.28	-13.00	35.28	1.71	Vertical
5	7179.60	-60.61	-41.77	-13.00	28.77	18.84	Vertical
6	13178.23	-63.70	-40.43	-13.00	27.43	23.27	Vertical

NR Band n41_100MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.65	-93.75	-72.10	-25.00	47.10	21.65	Horizontal
2	104.44	-92.78	-73.42	-25.00	48.42	19.36	Horizontal
3	905.51	-90.02	-53.04	-25.00	28.04	36.98	Horizontal
4	4907.88	-58.51	-43.82	-25.00	18.82	14.69	Horizontal
5	10926.08	-61.70	-38.72	-25.00	13.72	22.98	Horizontal
6	17373.80	-65.50	-36.28	-25.00	11.28	29.22	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.01	-88.29	-67.90	-25.00	42.90	20.39	Vertical
2	51.70	-91.85	-72.86	-25.00	47.86	18.99	Vertical
3	103.88	-93.92	-69.88	-25.00	44.88	24.04	Vertical
4	5196.93	-54.46	-40.11	-25.00	15.11	14.35	Vertical
5	10599.00	-62.65	-39.93	-25.00	14.93	22.72	Vertical
6	17269.92	-66.76	-38.13	-25.00	13.13	28.63	Vertical

NR Band n77_100MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.80	-89.97	-67.97	-13.00	54.97	22.00	Horizontal
2	111.01	-88.96	-69.36	-13.00	56.36	19.60	Horizontal
3	1127.46	-52.76	-54.91	-13.00	41.91	-2.15	Horizontal
4	1725.58	-46.79	-47.23	-13.00	34.23	-0.44	Horizontal
5	10170.90	-62.47	-40.81	-13.00	27.81	21.66	Horizontal
6	17364.24	-66.06	-36.90	-13.00	23.90	29.16	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.30	-89.67	-69.28	-13.00	56.28	20.39	Vertical
2	104.67	-93.52	-69.48	-13.00	56.48	24.04	Vertical
3	1127.23	-52.75	-54.90	-13.00	41.90	-2.15	Vertical
4	1346.32	-51.28	-53.61	-13.00	40.61	-2.33	Vertical
5	7285.16	-60.32	-41.55	-13.00	28.55	18.77	Vertical
6	12847.08	-63.42	-40.23	-13.00	27.23	23.19	Vertical

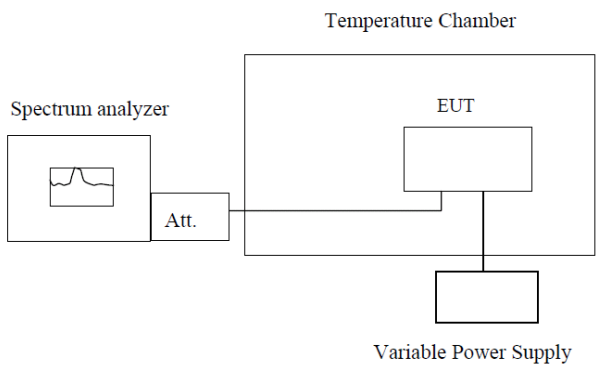
NR Band n78_100MHz_DFT-s-BPSK_Inner_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.04	-81.65	-60.35	-13.00	47.35	21.30	Horizontal
2	93.55	-83.57	-64.36	-13.00	51.36	19.21	Horizontal
3	896.02	-94.32	-57.35	-13.00	44.35	36.97	Horizontal
4	1126.88	-52.10	-54.25	-13.00	41.25	-2.15	Horizontal
5	11942.29	-62.57	-39.34	-13.00	26.34	23.23	Horizontal
6	16750.21	-65.64	-39.17	-13.00	26.17	26.47	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	40.66	-81.85	-61.79	-13.00	48.79	20.06	Vertical
2	94.58	-82.85	-58.97	-13.00	45.97	23.88	Vertical
3	307.99	-99.85	-74.38	-13.00	61.38	25.47	Vertical
4	1127.34	-52.53	-54.68	-13.00	41.68	-2.15	Vertical
5	2427.51	-50.82	-47.48	-13.00	34.48	3.34	Vertical
6	14824.17	-62.98	-39.37	-13.00	26.37	23.61	Vertical

7.9 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055, Part 22.355, Part 24.235, Part 27.54, Part 90.213 (a)
Test Method:	FCC Part2.1055
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for NR.

7.10 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055, Part 22.355, Part 24.235, Part 27.54, Part 90.213 (a)
Test Method:	FCC Part2.1055
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for NR.

8 Test setup photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

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