



FCC RADIO TEST REPORT

FCC ID : LHJ-FE5NAR110
Equipment : FE5NAR110, FE5NAR111
Brand Name : Continental
Model Name : FE5NAR110, FE5NAR111
Applicant : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Manufacturer : Continental Automotive Systems, Inc.
21440 W Lake Cook Rd., Deer Park, IL 60010, USA
Standard : FCC 47 CFR Part 2, 27L

The product was received on May 06, 2024 and testing was performed from Jul. 04, 2024 to Aug. 30, 2024. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



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History of this test report

Report No.	Version	Description	Issue Date
FG240808005C	01	Initial issue of report	Sep. 23, 2024
FG240808005C	02	Revise Section 1.2 and Appendix A This report is an updated version, replacing the report issued on Sep. 23, 2024.	Oct. 09, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)	Pass	
-	§27.50 (d)(5)	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §27.53 (h)	Conducted Band Edge Measurement (n66)	-	See Note
-	§2.1051 §27.53 (h)	Conducted Spurious Emission (n66)	-	See Note
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.2	§2.1053 §27.53 (h)	Radiated Spurious Emission (n66)	Pass	43.13 dB under the limit at 6909.00 MHz

Note:

- For host device, Radiated Spurious Emission, Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: FE5NAR110, FE5NAR111).

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	FE5NAR110, FE5NAR111
Brand Name	Continental
Model Name	FE5NAR110, FE5NAR111
FCC ID	LHJ-FE5NAR110
Installed into the Host	Equipment name: G12N51RG1, G12N50RG1 Brand name: Continental Model name: G12N51RG1, G12N50RG1
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/GNSS
EUT Stage	Identical Prototype

Sample Information			
Sample	TA-code	L2/L5 GNSS	Band Difference
1	FE5NAR110	Support	-
2	FE5NAR111	Not support	BOM change: depopulated passive components from the GNSS RF front-end

Remark: The above EUT's information was declared by manufacturer.

Support band and evaluated information	
Supported band	n2, n5, n25, n41, n66 ,n71, n77, n78
Evaluated and Tested band	n66

FDD/TDD band Power Class		
	PC3	PC2
n2	V	
n5	V	
n25	V	
n41		V
n66	V	
n71	V	
n77		V
n78	V	

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard			
Tx Frequency	5G NR n66: 1712.5 MHz ~ 1777.5 MHz		
Rx Frequency	5G NR n66: 2112.5 MHz ~ 2197.5 MHz		
Bandwidth	5G NR n66: 5MHz / 10MHz / 15MHz / 20MHz / 30MHz / 40MHz		
Maximum Output Power to Antenna	5G NR n66: 23.28 dBm		
Radiated EIRP	Band	Channel	EIRP (dBm)
	n66	M	21.45
	ENDC Band 12+n66	M	22.22
Antenna Type	<Internal Antenna> : TCP Antenna <External Antenna> : (Composed by component PN: 85038208, 85038209, 85038210, 85732934) : Glass antenna (Composed by component PN: 86784729, 86784728) : Front fender antenna (Composed by component PN: 86783279) : External Sharkfin Antenna		
Antenna Gain	<Internal Antenna> : Primary cell antenna : 5G NR n66: 4.86 dBi <External Glass Antenna (Composed by component PN: 85038208, 85038209, 85038210, 85732934)> : Primary cell antenna : 5G NR n66: 5.07 dBi <External Front Fender Antenna (Composed by component PN: 86784729, 86784728)> : Primary cell antenna : 5G NR n66: 4.55 dBi <External Conti Sharkfin Antenna Composed by component PN: 86783279)> : Primary cell antenna : 5G NR n66: 2.60 dBi		
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM		

Remark:

1. The Radiated EIRP listed in this section is only for radiated record, please refer the actual value in the Section 3.2.
2. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.3 Modification of EUT

No modifications made to the EUT during the testing.



1.4 Testing Location

Test Site	Sporton International (USA) Inc.		
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300		
Test Site No.	Sporton Site No.		
	TH01-CA	03CH01-CA <Radiation>	03CH01-CA <Radiated EIRP>
Test Engineer	Leo Liu	Ken Kuo and Leo Liu	Leo Liu
Temperature (°C)	22.7~24.5	22.5~24.3	21.9~22.9
Relative Humidity (%)	43.5~51.6	42.5~49.8	40.0~51.8

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: US1250

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 27L
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 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.

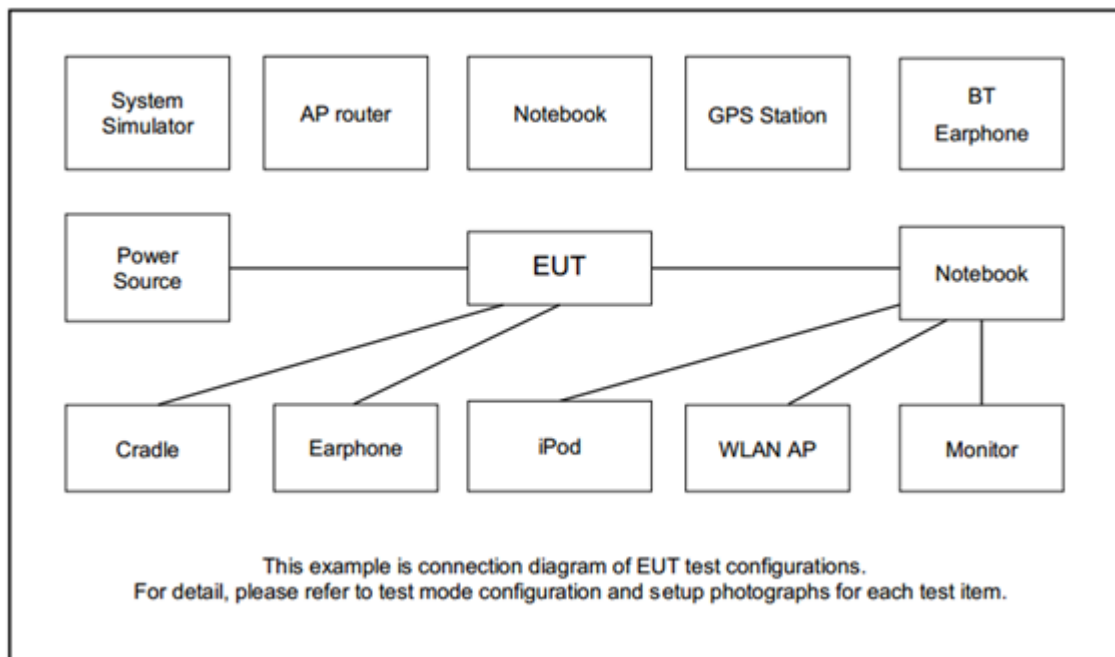
Modulation Type	Modulation
A	DFT-s-OFDM PI/2 BPSK
B	DFT-s-OFDM QPSK
C	DFT-s-OFDM 16QAM
D	DFT-s-OFDM 64QAM
E	DFT-s-OFDM 256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E	All	1, Half, Full	L, M, H
RSE	A	Maximum or less	Inner_1RB	M

Remark:

1. All the radiated test cases were performed with Sample 1.
2. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
4. For 5G NR test combination are EN-DC 12_n66A.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Keysight	UXM	N/A	N/A	Unshielded, 1.8 m
2.	Power supply	GW Instek	SPS-606	N/A	N/A	N/A



2.4 Frequency List of Low/Middle/High Channels

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

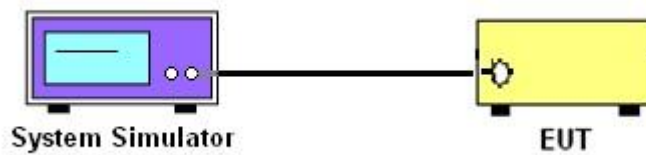
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and EIRP

3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

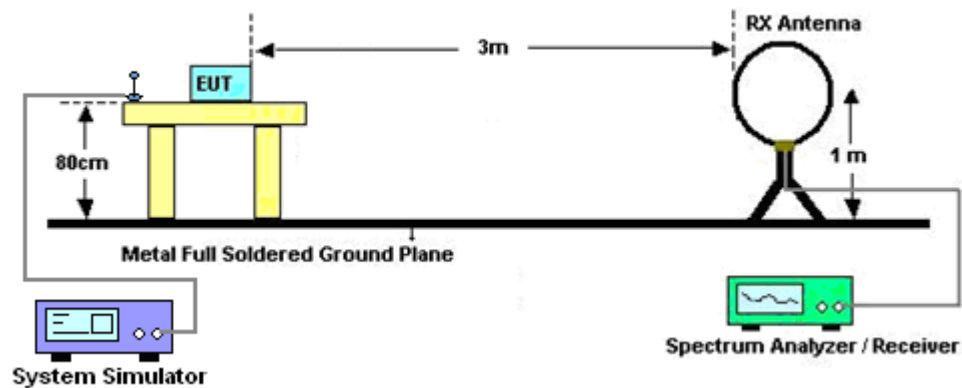
4 Radiated Test Items

4.1 Measuring Instruments

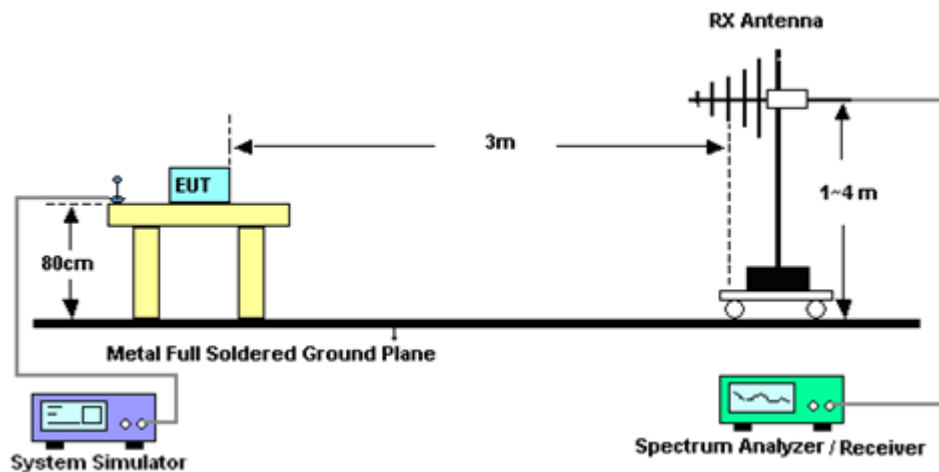
See list of measuring instruments of this test report.

4.1.1 Test Setup

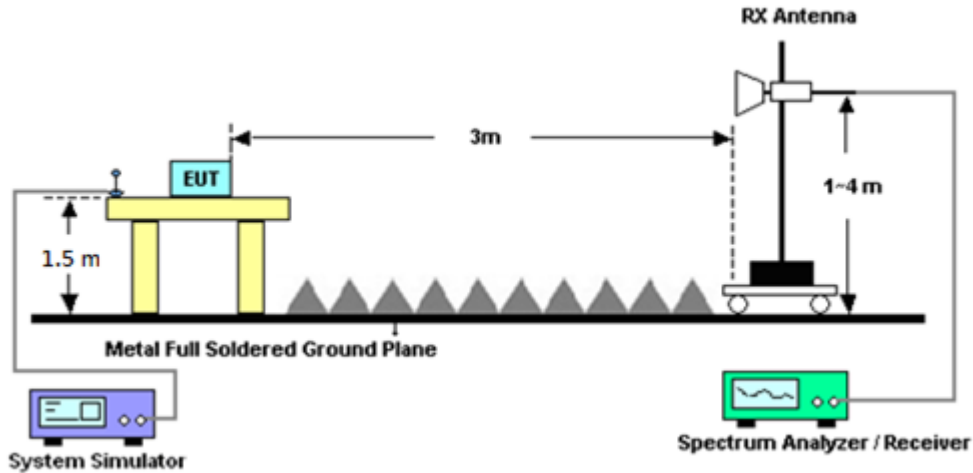
For radiated test below 30MHz



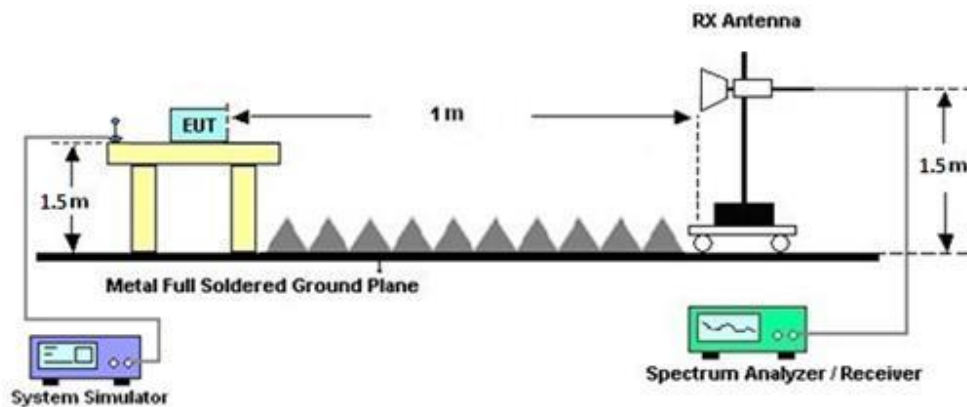
For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	45142595	N/A	Aug. 14, 2024	Aug. 26, 2024~ Aug. 30, 2024	Aug. 13, 2025	Conducted (TH01-CA)
UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321821	N/A	Oct. 29, 2023	Aug. 26, 2024~ Aug. 30, 2024	Oct. 28, 2024	Conducted (TH01-CA)
Bilog Antenna	TESEQ	6111D	54683	30MHz~1GHz	Nov. 13, 2023	Jul. 04, 2024~ Jul. 12, 2024	Nov. 12, 2024	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02115	1GHz~18GHz	Aug. 09, 2023	Jul. 04, 2024~ Jul. 12, 2024	Aug. 08, 2024	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02113	1GHz~18GHz	Apr. 26, 2024	Aug. 12, 2024	Apr. 25, 2025	Radiation (03CH01-CA)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00842	18GHz~40GHz	Jul. 17, 2023	Jul. 04, 2024~ Jul. 12, 2024	Jul. 16, 2024	Radiation (03CH01-CA)
Amplifier	SONOMA	310N	372241	9kHz~1GHz	Apr. 24, 2024	Jul. 04, 2024~ Jul. 12, 2024	Apr. 23, 2025	Radiation (03CH01-CA)
Preamplifier	E-instrument	ERA-100M-18 G-56-01-A70	EC1900251	1GHz~18GHz	Apr. 24, 2024	Jul. 04, 2024~ Jul. 12, 2024	Apr. 23, 2025	Radiation (03CH01-CA)
Preamplifier	E-instrument	ERA-100M-18 G-56-01-A70	EC1900252	1GHz~18GHz	Apr. 25, 2024	Aug. 12, 2024	Apr. 24, 2025	Radiation (03CH01-CA)
Preamplifier	EMEC	EMC18G40G	060725	18GHz-40GHz	Apr. 24, 2024	Jul. 04, 2024~ Jul. 12, 2024	Apr. 23, 2025	Radiation (03CH01-CA)
RF Cable	HUBER+SUH NER	SUCOFLEX 102	8015932/2, 8015762/2, 804938/2	N/A	Mar. 05, 2024	Jul. 04, 2024~ Jul. 12, 2024	Mar. 04, 2025	Radiation (03CH01-CA)
Hygrometer	TESEO	608-H1	45142559	N/A	Aug. 30, 2023	Jul. 04, 2024~ Jul. 12, 2024	Aug. 29, 2024	Radiation (03CH01-CA)
Controller	Chaintek	EM-1000	060881	Control Turn Table & Antenna Mast	N/A	Jul. 04, 2024~ Jul. 12, 2024	N/A	Radiation (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 04, 2024~ Jul. 12, 2024	N/A	Radiation (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 04, 2024~ Jul. 12, 2024	N/A	Radiation (03CH01-CA)
Test Software	Audix E3	E3 230621 Sporton US,V9	PK-002093	N/A	N/A	Jul. 04, 2024~ Jul. 12, 2024	N/A	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02113	1GHz~18GHz	Apr. 26, 2024	Aug. 30, 2024	Apr. 25, 2025	Radiated EIRP (03CH01-CA)
RF Cable	HUBER+SUH NER	SUCOFLEX 102	8015932/2, 8015762/2, 804938/2	N/A	Mar. 05, 2024	Aug. 30, 2024	Mar. 04, 2025	Radiated EIRP (03CH01-CA)
Wideband Radio Communicatio n Tester	Rohde & Schwarz	CMW500	150251	N/A	Apr. 26, 2024	Aug. 30, 2024	Apr. 25, 2025	Radiated EIRP (03CH01-CA)
UXM 5G Wireless Test Platform	Keysight	E7515B	MY59321821	N/A	Oct. 29, 2023	Aug. 30, 2024	Oct. 28, 2024	Radiated EIRP (03CH01-CA)
Hygrometer	TESEO	608-H1	45142559	N/A	Aug. 14, 2024	Aug. 30, 2024	Aug. 13, 2025	Radiated EIRP (03CH01-CA)
Controller	Chaintek	EM-1000	060881	Control Turn Table & Antenna Mast	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)
Test Software	Audix E3	E3 230621 Sporton US,V9	PK-002093	N/A	N/A	Aug. 30, 2024	N/A	Radiated EIRP (03CH01-CA)



6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.40 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.60 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.30 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

NR n66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	22.89	23.01	22.71	28.08	0.6427
5	1	1	QPSK	22.62	22.93	22.55		
5	1	1	16-QAM	21.88	21.77	21.80	26.95	0.4955
5	1	1	64-QAM	20.27	19.89	20.22		
5	1	1	256-QAM	17.77	18.54	17.77		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	22.98	22.83	22.98	28.15	0.6531
10	1	1	QPSK	23.08	22.87	22.55		
10	1	1	16-QAM	21.66	21.93	21.94	27.01	0.5023
10	1	1	64-QAM	20.04	20.25	20.14		
10	1	1	256-QAM	18.17	18.56	17.99		
Limit	EIRP < 1W			Result			Pass	



NR n66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.02	22.88	23.08	28.2	0.6607
15	1	1	QPSK	22.67	23.13	22.99		
15	1	1	16-QAM	22.03	22.11	22.17	27.24	0.5297
15	1	1	64-QAM	20.66	20.55	21.02		
15	1	1	256-QAM	18.67	18.55	18.61		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.08	23.28	22.87	28.35	0.6839
20	1	1	QPSK	22.88	22.93	22.94		
20	1	1	16-QAM	22.16	22.04	21.99	27.23	0.5284
20	1	1	64-QAM	20.57	20.42	20.44		
20	1	1	256-QAM	18.44	18.10	18.20		
Limit	EIRP < 1W			Result			Pass	



NR n66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	23.24	23.11	23.22	28.35	0.6839
30	1	1	QPSK	23.28	22.94	23.09		
30	1	1	16-QAM	22.23	22.07	22.20	27.3	0.537
30	1	1	64-QAM	20.49	20.55	20.02		
30	1	1	256-QAM	18.70	18.55	18.46		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.07 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	23.09	22.95	23.20	28.27	0.6714
40	1	1	QPSK	22.94	22.94	23.11		
40	1	1	16-QAM	22.22	22.10	22.02	27.29	0.5358
40	1	1	64-QAM	20.59	20.66	20.64		
40	1	1	256-QAM	18.88	18.66	18.89		
Limit	EIRP < 1W			Result			Pass	



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
5	Part 27L	EN-DC B12+n66	M	6909	-56.13	RMS	35.94	-53.89	0.34	-95.23	56.71	-13.00	-43.13	H	External Glass Antenna
6	Part 27L	NR SA n66	M	6945	-60.05	RMS	35.91	-53.70	0.34	-95.23	52.63	-13.00	-47.05	H	External Glass Antenna

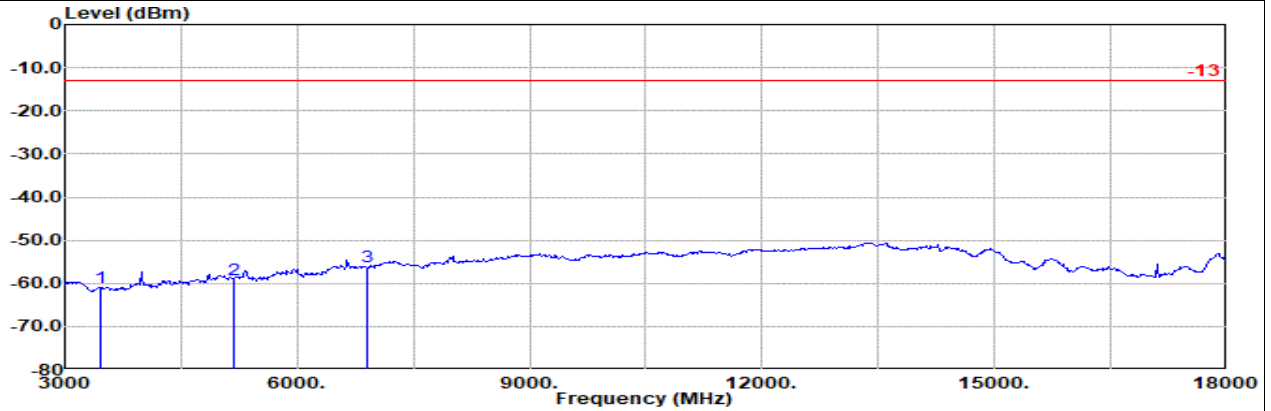


External Glass Antenna

Part 27L Mode 5

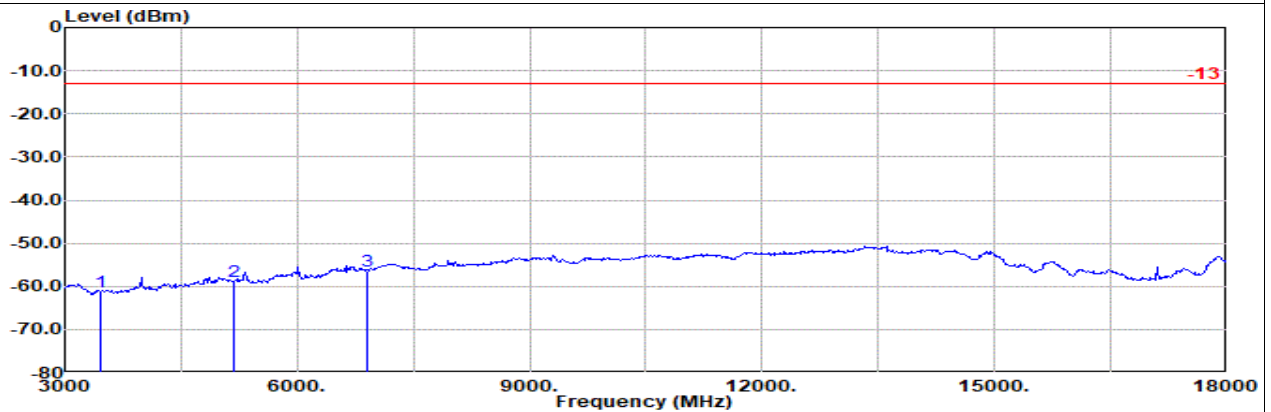
EN-DC B12+n66 10M + 40M Ch23095 1RB0 QPSK + Ch349000 1RB1 BPSK

M



Site : 03CH01-CA
Condition : -13 3m HORN_02113_240426 Horizontal
EN-DC B12+n66 10M + 40M :
Ch23095 1RB0 QPSK + Ch349000 1RB1 BPSK:

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBuV	dBm		
1	3454.00	-61.05	RMS	29.59	-58.35	0.96	-95.23	61.98	-13.00	-48.05	Horizontal
2	5181.00	-59.04	RMS	33.16	-56.24	0.38	-95.23	58.89	-13.00	-46.04	Horizontal
3	6909.00	-56.13	RMS	35.94	-53.89	0.34	-95.23	56.71	-13.00	-43.13	Horizontal



Site : 03CH01-CA
Condition : -13 3m HORN_02113_240426 Vertical
EN-DC B12+n66 10M + 40M :
Ch23095 1RB0 QPSK + Ch349000 1RB1 BPSK:

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBuV	dBm		
1	3454.00	-61.16	RMS	29.62	-58.35	0.96	-95.23	61.84	-13.00	-48.16	Vertical
2	5181.00	-58.90	RMS	33.22	-56.24	0.38	-95.23	58.97	-13.00	-45.90	Vertical
3	6909.00	-56.37	RMS	36.07	-53.89	0.34	-95.23	56.34	-13.00	-43.37	Vertical

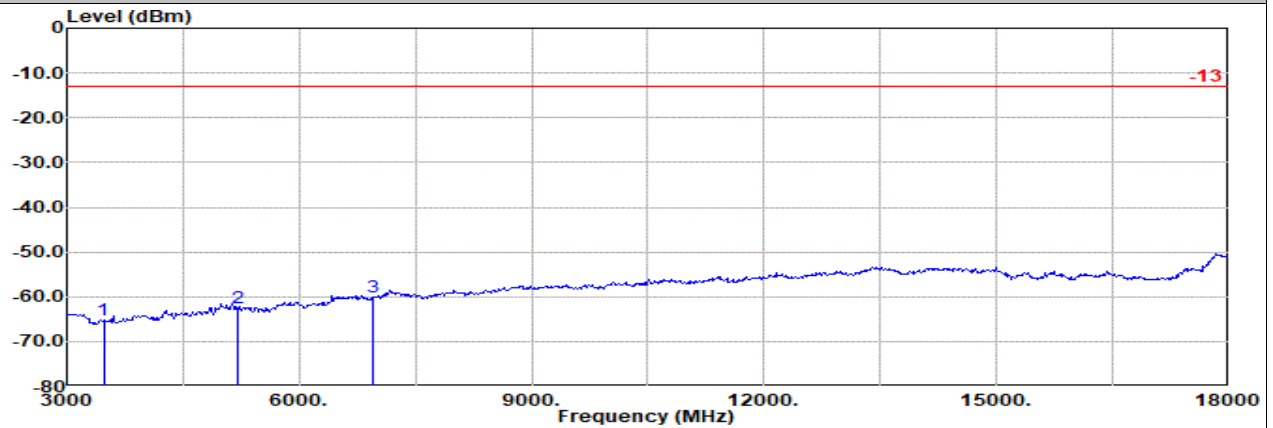


External Glass Antenna

Part 27L Mode 6

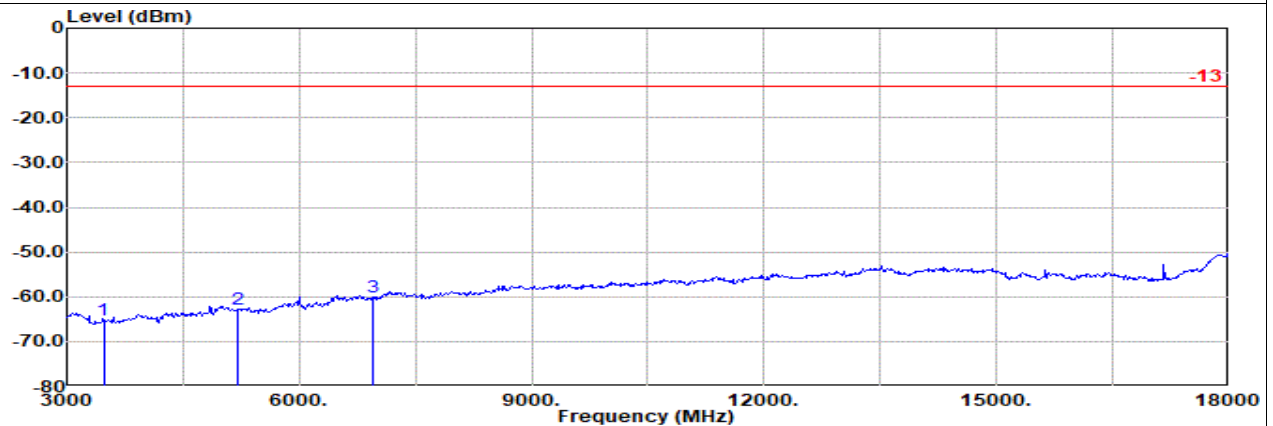
NR SA n66 20M Ch349000 1RB1 BPSK

M



Site : 03CH01-CA
Condition: -13 3m HORN_02115_230809 Horizontal
: NR SA 66 20M Ch349000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3472.54	-65.21	RMS	29.47	-58.39	0.99	-95.23	57.95	-13.00	-52.21 Horizontal
2	5208.81	-62.57	RMS	32.99	-56.08	0.48	-95.23	55.27	-13.00	-49.57 Horizontal
3	6945.08	-60.05	RMS	35.91	-53.70	0.34	-95.23	52.63	-13.00	-47.05 Horizontal



Site : 03CH01-CA
Condition: -13 3m HORN_02115_230809 Vertical
: NR SA 66 20M Ch349000 1RB1 BPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3472.54	-65.20	RMS	29.54	-58.39	0.99	-95.23	57.89	-13.00	-52.20 Vertical
2	5208.81	-62.73	RMS	32.99	-56.08	0.48	-95.23	55.11	-13.00	-49.73 Vertical
3	6945.08	-60.08	RMS	35.96	-53.70	0.34	-95.23	52.55	-13.00	-47.08 Vertical