

FCC RADIO TEST REPORT

FCC ID : QYLEM9190B
Equipment : Wireless Module
Brand Name : Getac
Model Name : EM9190
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1, Nangang
Rd., Nangang Dist., Taipei City 11568,
Taiwan, R.O.C.
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Dec. 21, 2020 and testing was started from Jan. 27, 2021 and completed on Mar. 05, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E 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 of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG0D2108C	01	Initial issue of report	Mar. 11, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	-	See Note
	§22.913 (a)(2)	Effective Radiated Power (n5)	-	
	§27.50 (c)(10)	Effective Radiated Power (n71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (n2) (n41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)		
-	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (n2) (n5) (n66) (n71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n41)		
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n2) (n5) (n66) (n71)	-	See Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n41)		
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (n2) (n5) (n66) (n71)	Pass	Under limit 17.63 dB at 10719.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n41)		

Remark: The module (Model: EM9190) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Tina Chuang

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, and GNSS.

Product Specification subjective to this standard	
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
Antenna Type	WWAN: PIFA Antenna GPS/Glonass/BDS/Galileo/SBAS : PATCH Antenna
Antenna Gain	<Main Antenna>: n2: 2.28 dBi n41: 2.98 dBi n66: 2.64 dBi n71: 1.28 dBi <MIMO 1 Antenna>: n41: 2.17 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

The product was installed into Notebook (Brand Name: Getac, Model Name: B360, B360 Pro) during test, and the host information was recorded in the following table.

Host Information		
Host 1	Host with SKU A	
Host 2	Host with SKU B	

Host Sample Information		
B360	SKUA	SKUB
CPU	i7-10610U	i7-10710U
Memory(DDR4)	8G	8G
Storage(OPAL SSD)	Main:256GB	Main:256GB
	Second:256GB	Second:256GB
WLAN	AX200NGW	AX200NGW
WWAN	EM9190	EM9190
Camera FN20FF-679H (RGB)	N/A	v
Camera FN23FF-678H (RGB+IR)	v	N/A
FINGERPRINT	v	v
VGA	v	N/A
HDMI	v	v
RS232	v	v
LAN	v	v
USB	v	v
USB3.1 Type C	N/A	v
Smart Card	v	v
SD Card Reader	N/A	N/A
ODD(Expansion)	N/A	v
RS232(Expansion)	N/A	v
Touch Screen	v	v
PCMCIA	v	v
GPS	v	v

1.2 Modification of EUT

No modifications are made to the EUT during all test items.



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH05-HY
Test Engineer	Hao Syu, Howard Lin
Temperature	20.3~23.6℃
Relative Humidity	43.3~54.3%

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang, Chuan Chu
Temperature	24.3~26.4℃
Relative Humidity	58~66%
Remark	The Radiated Test item subcontracted to Sporton International Inc. Wensan Laboratory

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

FCC Designation No.: TW1190 and TW0007



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



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.

<Sample 1>

Test Items	NR Band	Bandwidth (MHz)									Modulation					RB #			Test Channel		
		10	15	20	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n41			v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	n41			v	v	v	v	v	v	v	v	v	v	v	v	Max Power					
Radiated Spurious Emission	n41			v							v					v					v
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30GHz 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. Test combination is EN-DC 2A-n41A. 5. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report.																				

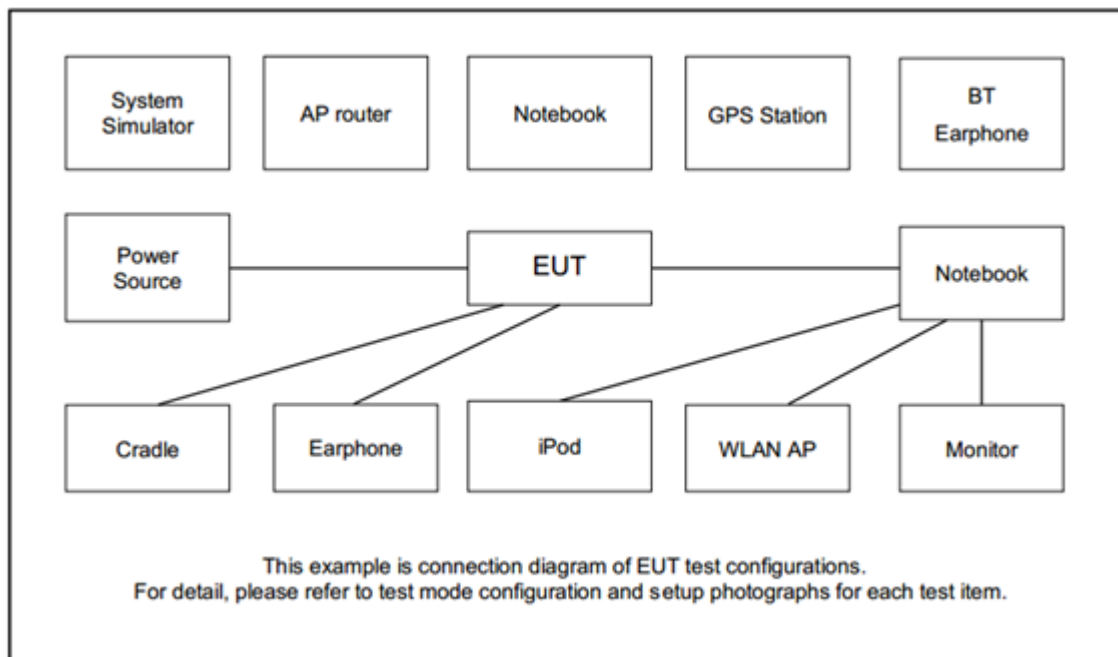


<Sample 2>

Test Items	NR	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		5	10	15	20	40	50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	v	v	v	v	v	Max Power					
	n66	v	v	v	v	-	-	v	v	v	v	v						
	n71	v	v	v	v	-	-	v	v	v	v	v						
Radiated Spurious Emission	n2				v	-	-	v					v					v
	n66				v	-	-	v					v			v	v	v
	n71				v	-	-	v					v					v
Remark	- The mark "v" means that this configuration is chosen for testing - The mark "-" means that this bandwidth is not supported. - The device is investigated from 30GHz 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. - Test combination is EN-DC 12A-n2A, EN-DC 5A-n66A, EN-DC 7A-n71A. - For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report.																	

Test Items	NR Band	Bandwidth (MHz)										Modulation					RB #			Test Channel		
		10	15	20	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Max. Output Power	n41			v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	
E.R.P / E.I.R.P	n41			v	v	v	v	v	v	v	v	v	v	v	v	Max Power						
Radiated Spurious Emission	n41			v							v					v					v	
Remark	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30GHz 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. Test combination is EN-DC 2A-n41A. 5. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report.																					

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 5G	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.4 Frequency List of Low/Middle/High Channels

5G NR Band n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR Band n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99



5G NR Band n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	346500	349000
	Frequency	1720	1732.5	1745
15	Channel	343500	346500	349500
	Frequency	1717.5	1732.5	1747.5
10	Channel	343000	346500	350000
	Frequency	1715	1732.5	1750
5	Channel	342500	346500	350500
	Frequency	1712.5	1732.5	1752.5

5G NR Band n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

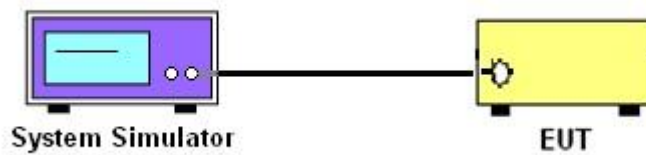
3 Conducted Test Items

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 ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/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 ERP of mobile transmitters must not exceed 3 Watts for 5G NR n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n41

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.

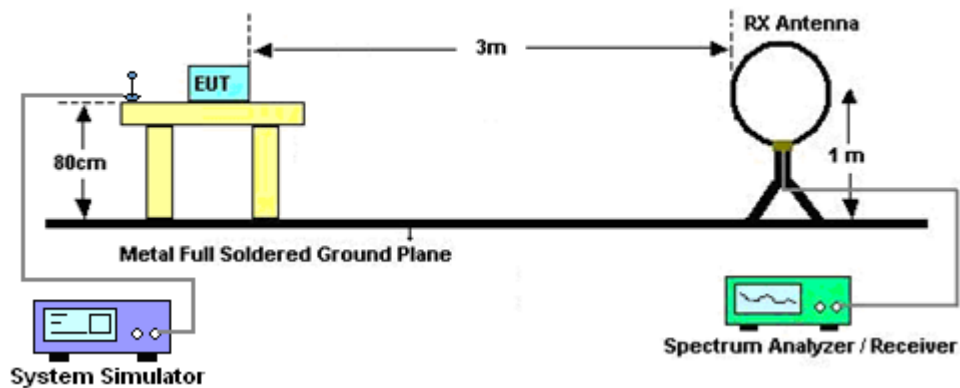
4 Radiated Test Items

4.1 Measuring Instruments

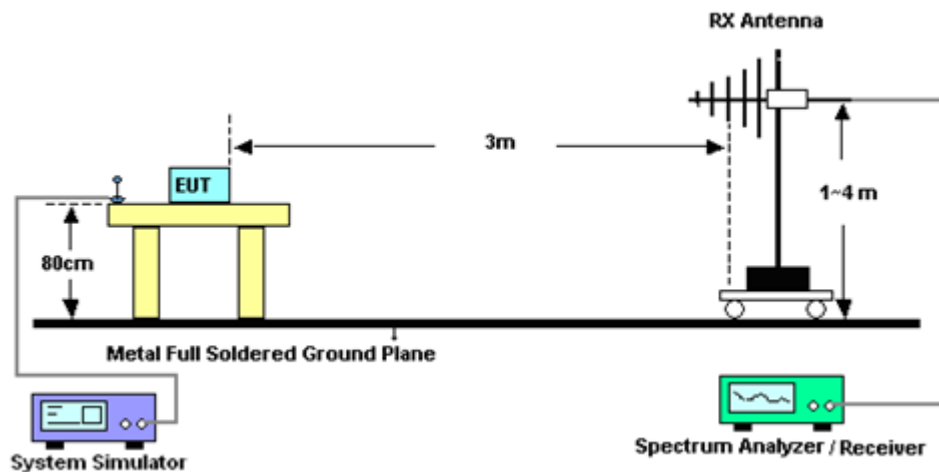
See list of measuring instruments of this test report.

4.1.1 Test Setup

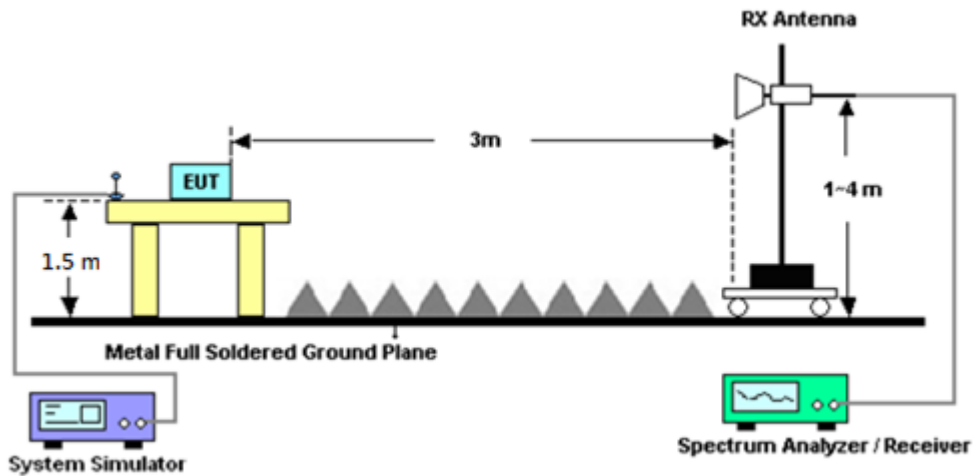
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix A.

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 a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Sitev01r01, 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 / TIA-603-E. 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.

For 5G NR n7, n41

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 $55 + 10 \log (P)$ 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 / TIA-603-E Section 2.2.12.

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. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

For 5G NR n41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Jan. 27, 2021~ Feb. 02, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Jan. 27, 2021~ Feb. 02, 2021	Apr. 28, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Jan. 27, 2021~ Feb. 02, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1241	1GHz ~ 18GHz	Jul. 15, 2020	Jan. 27, 2021~ Feb. 02, 2021	Jul. 14, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz~40GHz	Dec. 11, 2020	Jan. 27, 2021~ Feb. 02, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	May 22, 2020	Jan. 27, 2021~ Feb. 02, 2021	May 21, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Jan. 27, 2021~ Feb. 02, 2021	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY57280120	1GHz~26.5GHz	Jul. 20, 2020	Jan. 27, 2021~ Feb. 02, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Dec. 05, 2020	Jan. 27, 2021~ Feb. 02, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Jan. 27, 2021~ Feb. 02, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Jan. 27, 2021~ Feb. 02, 2021	Feb. 09, 2021	Radiation (03CH12-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Jan. 27, 2021~ Feb. 02, 2021	Feb. 14, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Jan. 27, 2021~ Feb. 02, 2021	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Jan. 27, 2021~ Feb. 02, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 25, 2020	Jan. 27, 2021~ Feb. 02, 2021	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 25, 2020	Jan. 27, 2021~ Feb. 02, 2021	Feb. 24, 2021	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 02, 2020	Jan. 27, 2021~ Feb. 02, 2021	Oct. 01, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 27, 2021~ Feb. 02, 2021	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jan. 27, 2021~ Feb. 02, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 27, 2021~ Feb. 02, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jan. 27, 2021~ Feb. 02, 2021	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6261849015	LTE	Sep. 18, 2020	Mar. 05, 2021	Sep. 17, 2021	Conducted (TH05-HY)
5G Wireless Test Platform	Anritsu	MT8000A	6261940327	FR1 (+MT8821C SN:6261849015)	Sep. 23, 2020	Mar. 05, 2021	Sep. 22, 2021	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8821C	62620025341	N/A	Oct. 05, 2020	Mar. 05, 2021	Oct. 05, 2021	Conducted (TH05-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.07
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.21
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.80
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

NR n2 Maximum Average Power [dBm] (GT - LC = 2.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	23.20	22.94	22.90	25.59	0.3622		
5	1	23		23.31	23.04	22.96				
5	12	6		23.26	22.92	22.89				
5	1	0		22.73	22.55	22.47				
5	1	24		22.89	22.62	22.53				
5	25	0		22.84	22.52	22.42				
5	1	1	QPSK	23.14	22.91	22.87				
5	1	23		23.26	23.00	22.92				
5	12	6		23.22	22.91	22.87				
5	1	0		22.18	21.94	21.88				
5	1	24		22.32	21.96	21.87				
5	25	0		22.34	22.01	21.97				
5	1	1	16-QAM	22.43	22.31	22.15	24.71	0.2958		
5	1	1	64-QAM	20.85	20.73	20.54				
5	1	1	256-QAM	18.77	18.57	18.37				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 2.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	23.31	23.08	22.88	25.65	0.3673		
10	1	50		23.37	23.04	22.89				
10	25	12		23.33	23.05	23.01				
10	1	0		22.88	22.61	22.44				
10	1	51		22.90	22.55	22.47				
10	50	0		22.93	22.53	22.49				
10	1	1	QPSK	23.18	22.97	22.83				
10	1	50		23.31	22.95	22.85				
10	25	12		23.32	23.01	22.99				
10	1	0		22.31	22.05	21.88				
10	1	51		22.35	21.98	21.92				
10	50	0		22.45	22.14	21.97				
10	1	1	16-QAM	22.45	22.25	22.12	24.73	0.2972		
10	1	1	64-QAM	20.93	20.69	20.56				
10	1	1	256-QAM	18.83	18.49	18.40				
Limit	EIRP < 2W			Result			Pass			



NR n2 Maximum Average Power [dBm] (GT - LC = 2.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	23.38	23.29	23.02	25.66	0.3681		
15	1	77		23.36	23.14	23.06				
15	36	18		23.37	23.13	22.98				
15	1	0		22.96	22.87	22.63				
15	1	78		22.96	22.70	22.58				
15	75	0		23.01	22.77	22.54				
15	1	1	QPSK	23.32	23.21	22.93				
15	1	77		23.34	23.06	22.97				
15	36	18		23.36	23.22	22.98				
15	1	0		22.35	22.26	22.02				
15	1	78		22.35	22.10	22.01				
15	75	0		22.50	22.29	22.08				
15	1	1	16-QAM	22.67	22.56	22.35	24.95	0.3126		
15	1	1	64-QAM	21.03	20.88	20.58				
15	1	1	256-QAM	18.84	18.71	18.46				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 2.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	23.36	23.25	23.04	25.65	0.3673		
20	1	104		23.37	23.05	22.96				
20	50	25		23.37	23.22	23.02				
20	1	0		22.95	22.89	22.61				
20	1	105		22.89	22.67	22.54				
20	100	0		22.91	22.75	22.55				
20	1	1	QPSK	23.32	23.24	22.92				
20	1	104		23.25	22.99	22.85				
20	50	25		23.35	23.19	23.00				
20	1	0		22.41	22.40	22.08				
20	1	105		22.31	22.05	21.98				
20	100	0		22.45	22.26	22.06				
20	1	1	16-QAM	22.55	22.54	22.23	24.83	0.3041		
20	1	1	64-QAM	21.08	20.93	20.66				
20	1	1	256-QAM	18.85	18.75	18.48				
Limit	EIRP < 2W			Result			Pass			



NR n5 Maximum Average Power [dBm] (GT - LC = 0.95 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	23.07	22.91	22.85	21.87	0.1538		
5	1	23		22.97	22.90	22.70				
5	12	6		22.87	22.89	22.65				
5	1	0		22.65	22.51	21.77				
5	1	24		22.56	22.47	22.31				
5	25	0		22.49	22.42	22.26				
5	1	1	QPSK	22.98	22.90	22.82				
5	1	23		22.90	22.80	22.63				
5	12	6		22.93	22.88	22.66				
5	1	0		22.01	21.91	22.40				
5	1	24		21.93	21.87	21.70				
5	25	0		22.00	21.96	21.77				
5	1	1	16-QAM	22.15	22.16	22.03	20.96	0.1247		
5	1	1	64-QAM	20.63	20.49	20.43				
5	1	1	256-QAM	18.39	18.31	18.21				
Limit	ERP < 7W			Result			Pass			

NR n5 Maximum Average Power [dBm] (GT - LC = 0.95 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	22.90	22.83	22.87	21.81	0.1517		
10	1	50		22.94	22.87	22.68				
10	25	12		23.01	22.93	22.74				
10	1	0		22.45	22.36	22.41				
10	1	51		22.50	22.36	22.25				
10	50	0		22.48	22.40	22.31				
10	1	1	QPSK	22.82	22.73	22.77				
10	1	50		22.87	22.75	22.64				
10	25	12		23.00	22.91	22.83				
10	1	0		21.88	21.82	21.86				
10	1	51		21.94	21.83	21.69				
10	50	0		22.03	21.95	21.82				
10	1	1	16-QAM	22.06	22.02	22.12	20.92	0.1236		
10	1	1	64-QAM	20.46	20.41	20.40				
10	1	1	256-QAM	18.22	18.18	18.24				
Limit	ERP < 7W			Result			Pass			



NR n5 Maximum Average Power [dBm] (GT - LC = 0.95 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	23.04	23.05	22.98	21.87	0.1538		
15	1	77		23.07	22.95	22.82				
15	36	18		23.02	23.07	22.86				
15	1	0		22.60	22.51	22.50				
15	1	78		22.65	22.44	22.36				
15	75	0		22.63	22.58	22.45				
15	1	1	QPSK	22.93	22.98	22.95				
15	1	77		23.00	22.83	22.72				
15	36	18		22.99	23.04	22.84				
15	1	0		21.94	21.92	21.98				
15	1	78		22.01	21.85	21.72				
15	75	0		22.11	22.10	21.93				
15	1	1	16-QAM	22.22	22.28	22.28	21.08	0.1282		
15	1	1	64-QAM	20.53	20.55	20.54				
15	1	1	256-QAM	18.31	18.38	18.33				
Limit	ERP < 7W			Result			Pass			

NR n5 Maximum Average Power [dBm] (GT - LC = 0.95 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	22.91	22.95	22.93	21.94	0.1563		
20	1	104		22.91	22.78	22.77				
20	50	25		23.14	23.10	23.02				
20	1	0		22.52	22.56	22.53				
20	1	105		22.42	22.35	22.35				
20	100	0		22.56	22.53	22.50				
20	1	1	QPSK	22.88	22.87	22.89				
20	1	104		22.81	22.69	22.71				
20	50	25		23.08	23.06	22.92				
20	1	0		21.90	21.99	22.00				
20	1	105		21.85	21.77	21.72				
20	100	0		22.05	21.99	22.01				
20	1	1	16-QAM	22.19	22.24	22.18	21.04	0.1271		
20	1	1	64-QAM	20.53	20.48	20.49				
20	1	1	256-QAM	18.23	18.31	18.33				
Limit	ERP < 7W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 2.98 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	23.07	22.99	22.86	26.12	0.4093		
20	1	49		22.92	23.14	22.88				
20	25	12		22.97	23.03	22.85				
20	1	0		22.57	22.54	22.52				
20	1	50		22.50	22.68	22.47				
20	50	0		22.52	22.66	22.42				
20	1	1	QPSK	23.02	22.92	22.84				
20	1	49		22.89	23.02	22.92				
20	25	12		22.96	23.06	22.82				
20	1	0		22.06	21.92	21.94				
20	1	50		21.99	22.09	21.86				
20	50	0		22.06	22.01	21.94				
20	1	1	16-QAM	22.26	22.12	21.83	25.24	0.3342		
20	1	1	64-QAM	20.39	20.45	20.58				
20	1	1	256-QAM	18.73	18.59	18.55				
Limit	EIRP < 2W			Result			Pass			



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NR n41 Maximum Average Power [dBm] (GT - LC = 2.98 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	23.23	23.20	23.22	26.23	0.4198		
40	1	104		23.21	23.25	23.21				
40	50	25		23.18	23.15	23.18				
40	1	0		23.03	22.83	23.02				
40	1	105		22.94	23.05	22.94				
40	100	0		22.91	22.96	22.96				
40	1	1	QPSK	23.22	23.12	23.24				
40	1	104		23.19	23.24	23.17				
40	50	25		23.21	23.22	23.23				
40	1	0		22.30	22.29	22.41				
40	1	105		22.28	22.38	22.43				
40	100	0		22.42	22.50	22.51				
40	1	1	16-QAM	22.34	22.63	22.59	25.61	0.3639		
40	1	1	64-QAM	21.13	20.68	20.85				
40	1	1	256-QAM	19.10	18.94	19.12				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 2.98 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	22.94	22.88	23.01	26.14	0.4111		
50	1	131		22.93	23.16	22.89				
50	64	32		23.01	22.99	22.86				
50	1	0		22.57	22.46	22.54				
50	1	132		22.48	22.73	22.48				
50	128	0		22.56	22.57	22.45				
50	1	1	QPSK	22.91	22.77	22.88				
50	1	131		22.79	23.05	22.92				
50	64	32		22.97	22.97	22.82				
50	1	0		22.06	21.96	22.05				
50	1	132		22.01	22.18	21.94				
50	128	0		22.10	22.05	21.98				
50	1	1	16-QAM	21.89	22.08	22.23	25.21	0.3319		
50	1	1	64-QAM	20.73	20.34	20.39				
50	1	1	256-QAM	18.69	18.48	18.68				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 2.98 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	22.95	22.94	22.92	26.06	0.4036		
60	1	160		22.88	23.08	23.01				
60	81	40		23.03	23.03	22.93				
60	1	0		22.59	22.49	22.58				
60	1	161		22.49	22.72	22.60				
60	162	0		22.59	22.58	22.56				
60	1	1	QPSK	22.87	22.85	22.87				
60	1	160		22.75	23.06	22.96				
60	81	40		23.04	22.98	22.93				
60	1	0		22.03	21.97	21.94				
60	1	161		21.90	22.05	21.99				
60	162	0		22.12	22.13	22.05				
60	1	1	16-QAM	22.25	22.14	22.18	25.23	0.3334		
60	1	1	64-QAM	20.60	20.28	20.40				
60	1	1	256-QAM	18.67	18.43	18.60				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 2.98 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	23.04	23.11	22.96	26.09	0.4064		
80	1	215		22.60	23.07	23.08				
80	108	54		23.00	23.02	23.09				
80	1	0		22.63	22.71	22.68				
80	1	216		22.15	22.72	22.71				
80	216	0		22.57	22.62	22.59				
80	1	1	QPSK	23.06	23.04	22.91				
80	1	215		22.63	23.02	23.09				
80	108	54		22.67	22.98	23.00				
80	1	0		22.11	22.12	22.12				
80	1	216		21.68	22.13	22.10				
80	216	0		22.06	22.13	22.05				
80	1	1	16-QAM	22.38	22.36	22.21	25.36	0.3436		
80	1	1	64-QAM	20.54	20.54	20.68				
80	1	1	256-QAM	18.82	18.59	18.67				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 2.98 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	23.19	23.13	23.08	26.17	0.414		
90	1	243		22.65	23.08	23.07				
90	120	60		22.95	23.05	23.06				
90	1	0		22.79	22.77	22.67				
90	1	244		22.25	22.74	22.69				
90	240	0		22.61	22.71	22.68				
90	1	1	QPSK	23.12	23.13	23.03				
90	1	243		22.61	23.13	23.11				
90	120	60		22.97	23.02	23.09				
90	1	0		22.23	22.24	22.13				
90	1	244		21.66	22.22	22.17				
90	240	0		22.07	22.14	22.15				
90	1	1	16-QAM	22.25	22.50	22.23	25.48	0.3532		
90	1	1	64-QAM	20.56	20.62	20.41				
90	1	1	256-QAM	18.81	18.78	18.67				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 2.98 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	23.16	23.14	23.04	26.22	0.4188		
100	1	271		23.24	23.22	23.20				
100	135	67		23.04	23.05	23.11				
100	1	0		22.77	22.75	22.59				
100	1	272		22.33	22.82	22.83				
100	270	0		22.58	22.70	22.71				
100	1	1	QPSK	23.05	23.08	22.95				
100	1	271		22.61	23.21	23.17				
100	135	67		22.99	23.03	23.08				
100	1	0		22.22	22.14	22.01				
100	1	272		21.81	22.32	22.27				
100	270	0		22.06	22.15	22.23				
100	1	1	16-QAM	22.13	22.36	22.26	25.34	0.342		
100	1	1	64-QAM	20.68	20.57	20.52				
100	1	1	256-QAM	18.73	18.84	18.57				
Limit	EIRP < 2W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 2.64 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	23.54	23.13	23.15	26.18	0.415		
5	1	23		23.51	23.11	23.13				
5	12	6		23.49	23.13	23.13				
5	1	0		23.05	22.68	22.67				
5	1	24		23.05	22.72	22.69				
5	25	0		23.01	22.65	22.65				
5	1	1	QPSK	23.51	23.16	23.10				
5	1	23		23.42	23.08	23.11				
5	12	6		23.44	23.12	23.11				
5	1	0		22.53	22.08	22.10				
5	1	24		22.47	22.09	22.09				
5	25	0		22.54	22.24	22.21				
5	1	1	16-QAM	22.86	22.55	22.40	25.5	0.3548		
5	1	1	64-QAM	21.14	20.86	20.78				
5	1	1	256-QAM	18.88	18.58	18.44				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 2.64 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	23.53	23.17	23.12	26.24	0.4207		
10	1	50		23.49	23.15	23.10				
10	25	12		23.60	23.18	23.18				
10	1	0		23.09	22.67	22.68				
10	1	51		23.07	22.72	22.66				
10	50	0		23.06	22.68	22.63				
10	1	1	QPSK	23.43	23.12	23.02				
10	1	50		23.42	23.10	23.05				
10	25	12		23.58	23.15	23.16				
10	1	0		22.56	22.18	22.12				
10	1	51		22.50	22.19	22.11				
10	50	0		22.64	22.23	22.22				
10	1	1	16-QAM	22.73	22.46	22.34	25.37	0.3443		
10	1	1	64-QAM	21.09	20.70	20.68				
10	1	1	256-QAM	18.84	18.53	18.44				
Limit	EIRP < 1W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 2.64 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	23.59	23.29	23.11	26.23	0.4198		
15	1	77		23.56	23.32	23.21				
15	36	18		23.55	23.23	23.01				
15	1	0		23.11	22.84	22.69				
15	1	78		23.10	22.88	22.71				
15	75	0		23.05	22.84	22.63				
15	1	1	QPSK	23.52	23.21	23.05				
15	1	77		23.53	23.22	23.11				
15	36	18		23.54	23.28	23.05				
15	1	0		22.53	22.27	22.08				
15	1	78		22.55	22.26	22.12				
15	75	0		22.57	22.36	22.10				
15	1	1	16-QAM	22.88	22.53	22.34	25.52	0.3565		
15	1	1	64-QAM	21.20	20.85	20.77				
15	1	1	256-QAM	18.91	18.62	18.50				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 2.64 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	23.58	23.31	23.22	26.22	0.4188		
20	1	104		23.37	23.27	23.11				
20	50	25		23.54	23.34	23.14				
20	1	0		23.18	22.85	22.79				
20	1	105		22.95	22.87	22.70				
20	100	0		23.04	22.81	22.63				
20	1	1	QPSK	23.51	23.26	23.13				
20	1	104		23.33	23.19	23.01				
20	50	25		23.51	23.26	23.06				
20	1	0		22.67	22.27	22.31				
20	1	105		22.48	22.30	22.18				
20	100	0		22.58	22.34	22.18				
20	1	1	16-QAM	22.84	22.45	22.55	25.48	0.3532		
20	1	1	64-QAM	21.19	20.88	20.73				
20	1	1	256-QAM	18.94	18.63	18.56				
Limit	EIRP < 1W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = 1.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	22.73	22.71	22.70	21.86	0.1535		
5	1	23		22.70	22.63	22.49				
5	12	6		22.71	22.70	22.53				
5	1	0		22.35	22.60	22.10				
5	1	24		22.26	22.59	22.43				
5	25	0		22.27	22.61	22.49				
5	1	1	QPSK	22.68	22.68	22.68				
5	1	23		22.66	22.69	22.42				
5	12	6		22.68	22.71	22.51				
5	1	0		21.83	22.03	22.13				
5	1	24		21.68	22.11	21.85				
5	25	0		21.78	22.13	22.05				
5	1	1	16-QAM	22.00	22.26	22.33	21.46	0.14		
5	1	1	64-QAM	20.43	20.68	20.74				
5	1	1	256-QAM	18.31	18.52	18.56				
Limit	ERP < 3W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = 1.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	22.71	22.51	22.72	21.85	0.1531		
10	1	50		22.69	22.71	22.50				
10	25	12		22.72	22.64	22.65				
10	1	0		22.36	22.46	22.71				
10	1	51		22.28	22.60	22.39				
10	50	0		22.27	22.56	22.55				
10	1	1	QPSK	22.72	22.45	22.68				
10	1	50		22.60	22.55	22.67				
10	25	12		22.65	22.70	22.60				
10	1	0		21.80	21.91	22.16				
10	1	51		21.75	22.03	21.86				
10	50	0		21.83	22.11	22.04				
10	1	1	16-QAM	22.01	22.17	22.45	21.58	0.1439		
10	1	1	64-QAM	20.33	20.50	20.74				
10	1	1	256-QAM	18.25	18.23	18.54				
Limit	ERP < 3W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = 1.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	22.72	22.51	22.66	21.85	0.1531		
15	1	77		22.66	22.65	22.36				
15	36	18		22.36	22.00	22.56				
15	1	0		22.49	22.36	22.71				
15	1	78		22.62	22.59	22.33				
15	75	0		22.38	22.54	22.54				
15	1	1	QPSK	22.70	22.46	22.72				
15	1	77		22.58	22.62	22.70				
15	36	18		22.37	22.61	22.63				
15	1	0		22.01	21.87	22.10				
15	1	78		22.02	22.03	21.78				
15	75	0		21.91	22.06	22.11				
15	1	1	16-QAM	22.22	22.27	22.41	21.54	0.1426		
15	1	1	64-QAM	20.52	20.52	20.77				
15	1	1	256-QAM	18.40	18.24	18.59				
Limit	ERP < 3W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = 1.28 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	22.61	22.49	22.72	21.85	0.1531		
20	1	104		22.66	22.65	22.41				
20	50	25		22.70	22.68	22.68				
20	1	0		22.49	22.36	22.66				
20	1	105		22.56	22.53	22.33				
20	100	0		22.37	22.54	22.52				
20	1	1	QPSK	22.57	22.71	22.64				
20	1	104		22.62	22.58	22.72				
20	50	25		22.59	22.69	22.67				
20	1	0		21.98	21.85	22.08				
20	1	105		21.95	21.98	21.76				
20	100	0		21.88	21.99	22.05				
20	1	1	16-QAM	22.22	22.06	22.38	21.51	0.1416		
20	1	1	64-QAM	20.54	20.41	20.73				
20	1	1	256-QAM	18.33	18.22	18.42				
Limit	ERP < 3W			Result			Pass			



Appendix B. Test Results of Radiated Test

<Sample 1>

EN-DC 2A-n41A

EN-DC 2A-n41A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EiRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	5359	-52.48	-25	-27.48	-74.98	-63.88	1.70	13.10	H
	8039	-46.10	-25	-21.10	-73.19	-55.32	2.06	11.28	H
	10719	-42.63	-25	-17.63	-73.51	-51.03	2.50	10.90	H
									H
									H
									H
									H
	5359	-53.00	-25	-28.00	-75.14	-64.40	1.70	13.10	V
	8039	-46.39	-25	-21.39	-73.43	-55.61	2.06	11.28	V
	10719	-43.18	-25	-18.18	-73.82	-51.58	2.50	10.90	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Sample 2>

EN-DC 12A-n2A

EN-DC 12A-n2A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EiRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	3819	-54.58	-13	-41.58	-72.99	-65.83	1.44	12.69	H
	5729	-50.80	-13	-37.80	-74.48	-62.37	1.73	13.30	H
	7639	-47.83	-13	-34.83	-73.69	-56.95	2.01	11.13	H
									H
									H
									H
									H
	3819	-54.30	-13	-41.30	-72.95	-65.55	1.44	12.69	V
	5729	-51.57	-13	-38.57	-74.61	-63.14	1.73	13.30	V
	7639	-48.56	-13	-35.56	-74.33	-57.68	2.01	11.13	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**EN-DC 2A-n41A**

EN-DC 2A-n41A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EiRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	5359	-52.58	-25	-27.58	-75.08	-63.98	1.70	13.10	H
	8039	-46.84	-25	-21.84	-73.93	-56.06	2.06	11.28	H
	10719	-42.97	-25	-17.97	-73.85	-51.37	2.50	10.90	H
									H
									H
									H
									H
	5359	-52.68	-25	-27.68	-74.82	-64.08	1.70	13.10	V
	8039	-46.76	-25	-21.76	-73.8	-55.98	2.06	11.28	V
	10719	-43.64	-25	-18.64	-74.28	-52.04	2.50	10.90	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**EN-DC 5A-n66A**

EN-DC 5A-n66A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3422	-57.60	-13	-44.60	-73.54	-68.57	1.35	12.31	H
	5133	-52.33	-13	-39.33	-74.28	-63.47	1.64	12.79	H
	6845	-48.44	-13	-35.44	-73.82	-58.82	1.74	12.12	H
									H
									H
									H
									H
	3422	-56.83	-13	-43.83	-73.19	-67.80	1.35	12.31	V
	5133	-52.59	-13	-39.59	-74.29	-63.73	1.64	12.79	V
	6845	-49.52	-13	-36.52	-74.5	-59.90	1.74	12.12	V
									V
									V
									V
									V
Middle	3472	-56.53	-13	-43.53	-72.95	-67.61	1.35	12.43	H
	5208	-52.30	-13	-39.30	-74.26	-63.53	1.66	12.89	H
	6945	-47.87	-13	-34.87	-73.75	-58.12	1.73	11.98	H
									H
									H
									H
									H
	3472	-56.16	-13	-43.16	-72.96	-67.24	1.35	12.43	V
	5208	-52.58	-13	-39.58	-74.37	-63.81	1.66	12.89	V
	6945	-47.97	-13	-34.97	-73.39	-58.22	1.73	11.98	V
									V
									V
									V
									V



Highest	3522	-56.19	-13	-43.19	-73.06	-67.34	1.37	12.51	H
	5283	-52.54	-13	-39.54	-74.77	-63.85	1.68	13.00	H
	7045	-47.59	-13	-34.59	-73.9	-57.67	1.74	11.83	H
									H
									H
									H
									H
	3522	-56.03	-13	-43.03	-73.18	-67.18	1.37	12.51	V
	5283	-52.87	-13	-39.87	-74.83	-64.18	1.68	13.00	V
	7045	-47.88	-13	-34.88	-73.74	-57.96	1.74	11.83	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**EN-DC 7A-n71A**

EN-DC 7A-n71A / 20MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Highest	1395	-41.43	-13	-28.43	-70.97	-48.20	0.84	7.62	H
	2093	-39.48	-13	-26.48	-72.07	-48.55	1.06	10.13	H
	2791	-37.82	-13	-24.82	-72.24	-47.65	1.22	11.05	H
									H
									H
									H
									H
	1395	-41.85	-13	-28.85	-70.19	-48.62	0.84	7.62	V
	2093	-40.63	-13	-27.63	-72.12	-49.70	1.06	10.13	V
	2791	-38.07	-13	-25.07	-72.43	-47.90	1.22	11.05	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.