

FCC Test Report (Part 27: FR1 n66A)

Report No.: RF191031C08-10

FCC ID: PY319400469

Model: MR5100

Received Date: Nov. 04, 2019

Test Date: Jan. 15 ~ Jan. 16, 2020

Issued Date: Feb. 02, 2020

Applicant: Netgear, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF191031C08-10	Original release	Feb. 02, 2020

1 Certificate of Conformity

Product: 5G MHS Travel Router

Brand: NETGEAR

Model: MR5100

Sample Status: Engineering sample

Applicant: Netgear, Inc.

Test Date: Jan. 15 ~ Jan. 16, 2020

Standards: FCC Part 27, Subpart L

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen, **Date:** Feb. 02, 2020
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Feb. 02, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	Test Item	Result	Remarks
NR Band 66			
2.1046 27.50 (d)(4)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement of limit.
27.50 (d)(5)	Peak To Average Ratio	Pass	Meet the requirement of limit.
2.1055 27.54	Frequency Stability Stay with the authorized bands of operation	Pass	Meet the requirement of limit.
2.1049	Emission Bandwidth	Pass	Meet the requirement of limit.
2.1051 27.53(h)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 27.53(h)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -16.0dB at 31.94MHz.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 30, 2019	May 29, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 23, 2019	Sep. 22, 2020
Spectrum Analyzer KEYSIGHT	N9030B	MY57140953	Jun. 28, 2019	Jun. 27, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Jul. 11, 2019	Jul. 10, 2020
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jun. 11, 2019	Jun. 10, 2020
RF Coaxial Cable WORKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 20, 2019	Aug. 19, 2020
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Aug. 20, 2019	Aug. 19, 2020
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jul. 11, 2019	Jul. 10, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jul. 11, 2019	Jul. 10, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 03, 2019	Jun. 02, 2020
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	May 21, 2019	May 20, 2020
Radio Communication Analyzer Anritsu	MT8821C	6261806803	Jan. 22, 2019	Jan. 21, 2020
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 19, 2019	Aug. 18, 2021
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 06, 2019	Sep. 05, 2020

Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 4.

3 General Information

3.1 General Description of EUT

Product	5G MHS Travel Router				
Brand	NETGEAR				
Model	MR5100				
Sample Status	Engineering sample				
Power Supply Rating	5 or 9Vdc (adapter) 5Vdc (host equipment) 3.85Vdc (battery)				
Modulation Type	QPSK, 16QAM, 64QAM				
Operating Frequency	NR Band 66	Channel Bandwidth 5MHz	1712.5MHz ~ 1777.5 MHz		
		Channel Bandwidth 10MHz	1715.0MHz ~ 1775.0 MHz		
		Channel Bandwidth 15MHz	1717.5MHz ~ 1772.5 MHz		
		Channel Bandwidth 20MHz	1720.0MHz ~ 1770.0 MHz		
Max. EIRP Power	1RB		QPSK	16QAM	64QAM
	NR Band 66	Channel Bandwidth 5MHz	134.896mW (21.3dBm)	114.815mW (20.6dBm)	91.201mW (19.6dBm)
		Channel Bandwidth 10MHz	125.893mW (21.0dBm)	109.648mW (20.4dBm)	87.096mW (19.4dBm)
		Channel Bandwidth 15MHz	117.490mW (20.7dBm)	104.713mW (20.2dBm)	83.176mW (19.2dBm)
		Channel Bandwidth 20MHz	123.027mW (20.9dBm)	109.648mW (20.4dBm)	89.125mW (19.5dBm)
	Full RB				
	NR Band 66	Channel Bandwidth 5MHz	102.329mW (20.1dBm)	91.201mW (19.6dBm)	72.444mW (18.6dBm)
		Channel Bandwidth 10MHz	97.724mW (19.9dBm)	89.125mW (19.5dBm)	70.795mW (18.5dBm)
		Channel Bandwidth 15MHz	95.500mW (19.8dBm)	83.176mW (19.2dBm)	66.069mW (18.2dBm)
		Channel Bandwidth 20MHz	97.724mW (19.9dBm)	85.114mW (19.3dBm)	67.608mW (18.3dBm)
Emission Designator			QPSK	16QAM	64QAM
	NR Band 66	Channel Bandwidth 5MHz	4M49G7D	4M49D7W	4M49D7W
		Channel Bandwidth 10MHz	8M96G7D	8M96D7W	8M96D7W
		Channel Bandwidth 15MHz	13M5G7D	13M5D7W	13M5D7W
		Channel Bandwidth 20MHz	18M0G7D	18M0D7W	18M0D7W
Antenna Connector	Refer to note				
Antenna Connector	Refer to note				
Accessory Device	Adapter x1, battery x1				
Data Cable Supplied	1m shielded USB cable without core (Brand: NIENYI, model: NYS2371-1)				

Note:

1. The following antennas were provided to the EUT.

Antenna Type	monopole	
Antenna Connector	NA	
Antenna Gain (dBi)	NR Band 66	0.34

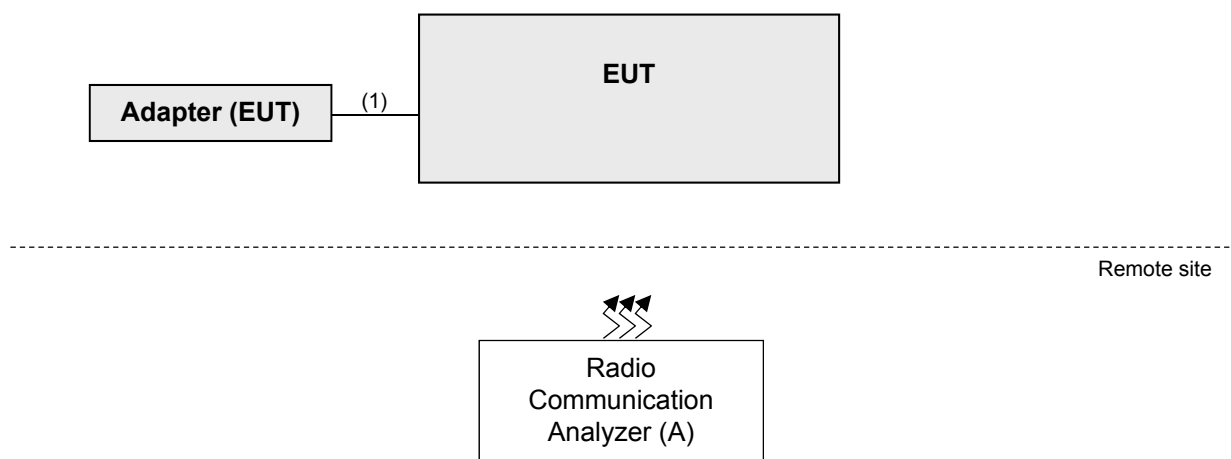
2. The EUT must be supplied with a power adapter or battery as following table:

Items	Brand	Model No.	Spec.
Adapter	NETGEAR	AD2122F20	Input: 100-240Vac~50/60Hz, 0.5A Output: 5Vdc / 2.0A or 9Vdc /1.8A
Battery	NETGEAR	W-20	3.85Vdc, 19.40Wh

3. The EUT support Bandwidth information

Band	SCS (kHz)	Channel Bandwidth (MHz)			
		5	10	15	20
n2	15	Support	Support	Support	Support
n5	15	Support	Support	Support	Support
n66	15	Support	Support	Support	Support

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Radio Communication Analyzer	Keysight	E7515B	MY58300759	NA	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	1	Y	0	Accessory of EUT

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on X-plane. Following channel(s) was (were) selected for the final test as listed below.

NR Band 66

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	QPSK / 16QAM / 64QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	344000 to 354000	349000 (1745.0MHz)	20MHz	QPSK / 16QAM / 64QAM	106 RB / 0 RB Offset
-	Frequency Stability	342500 to 355500	342500 (1712.5MHz), 355500 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 355000 (1775.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 354500 (1772.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 354000 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Emission Bandwidth	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	QPSK / 16QAM / 64QAM	25 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	QPSK / 16QAM / 64QAM	52 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	QPSK / 16QAM / 64QAM	79 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	QPSK / 16QAM / 64QAM	106 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Band Edge	342500 to 355500	342500 (1712.5MHz), 355500 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 355000 (1775.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset 1 RB / 51 RB Offset 52 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 354500 (1772.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset 1 RB / 78 RB Offset 79 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 354000 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset 1 RB / 105 RB Offset 106 RB / 0 RB Offset
-	Peak to Average Ratio	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	QPSK	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Conducted Emission	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	QPSK	25 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	QPSK	52 RB / 0 RB Offset
		343500 to 354500	343500 (1717.5MHz), 349000 (1745.0MHz), 354500 (1772.5MHz)	15MHz	QPSK	79 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	QPSK	106 RB / 0 RB Offset
-	Radiated Emission Below 1GHz	342500 to 355500	342500 (1712.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission Above 1GHz	342500 to 355500	342500 (1712.5MHz), 349000 (1745.0MHz), 355500 (1777.5MHz)	5MHz	QPSK	1 RB / 0 RB Offset
		343000 to 355000	343000 (1715.0MHz), 349000 (1745.0MHz), 355000 (1775.0MHz)	10MHz	QPSK	1 RB / 0 RB Offset
		344000 to 354000	344000 (1720.0MHz), 349000 (1745.0MHz), 354000 (1770.0MHz)	20MHz	QPSK	1 RB / 0 RB Offset

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25deg. C, 70%RH	120Vac, 60Hz	Luis Lee
Modulation characteristics	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Frequency Stability	24deg. C, 64%RH	3.85Vdc	James Yang
Occupied Bandwidth	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Band Edge	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Emission Mask	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Peak To Average Ratio	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Conducted Emission	24deg. C, 64%RH	120Vac, 60Hz	James Yang
Radiated Emission	25deg. C, 70%RH	120Vac, 60Hz	Noah Chang Luis Lee

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

Note: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 1 watts e.i.r.p for NR Band 66.

4.1.2 Test Procedures

EIRP / ERP Measurement:

- a. All measurements were done at low, middle and high operational frequency range. RWB and VBW is 20MHz for NR Mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}$.

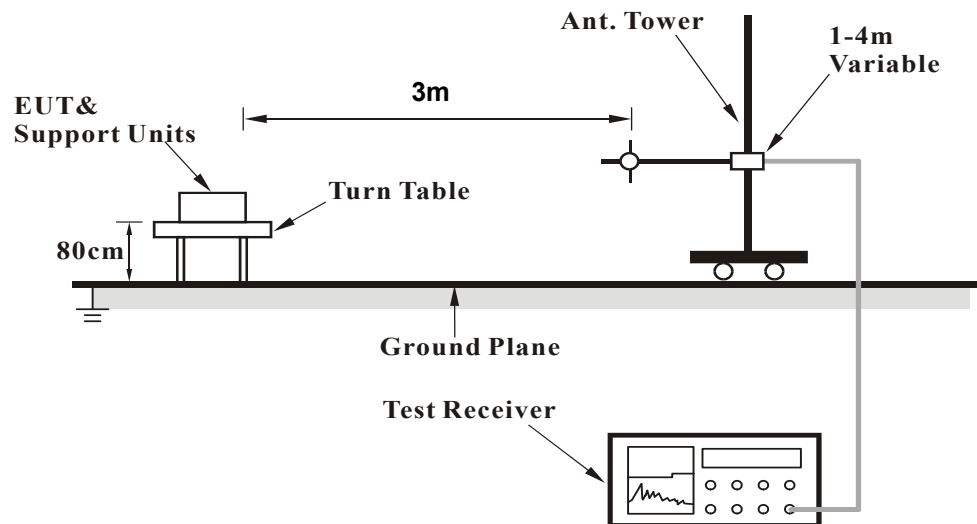
Conducted Power Measurement:

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

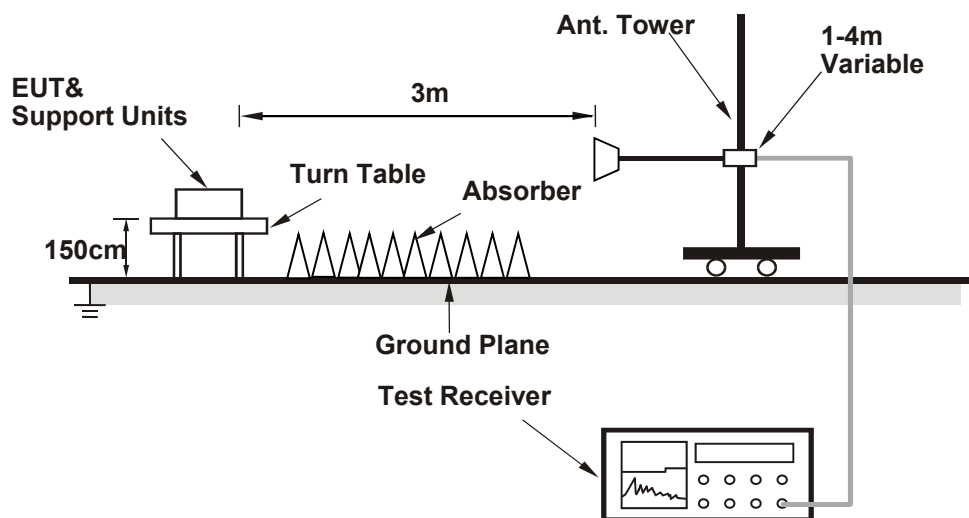
4.1.3 Test Setup

EIRP MEASUREMENT:

For Radiated Emission below or equal 1GHz

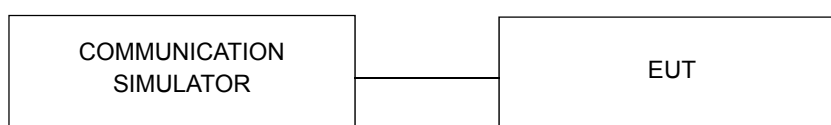


For Radiated Emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

Conducted Output Power (dBm)

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		342500	349000	355500	
		Frequency (MHz)		1712.5	1745	1777.5	
5M	DFT-S_QPSK	1	0	19.43	19.78	19.65	0
		1	12	19.08	19.43	19.30	0
		1	24	19.02	19.23	19.10	0
		12	0	19.38	19.73	19.60	0
		12	6	19.32	19.67	19.54	0
		12	13	19.18	19.53	19.40	0
		25	0	19.23	19.58	19.45	0
	DFT-S_16QAM	1	0	19.39	19.74	19.61	0
		1	12	19.33	19.68	19.55	0
		1	24	19.19	19.54	19.41	0
		12	0	19.34	19.69	19.56	0
		12	6	19.25	19.60	19.47	0
		12	13	19.18	19.53	19.40	0
		25	0	19.26	19.61	19.48	0
	DFT-S_64QAM	1	0	19.25	19.60	19.47	0
		1	12	19.18	19.53	19.40	0
		1	24	19.16	19.51	19.38	0
		12	0	19.23	19.58	19.45	0
		12	6	19.18	19.53	19.40	0
		12	13	19.16	19.51	19.38	0
		25	0	19.20	19.55	19.42	0

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		342500	349000	355500	
		Frequency (MHz)		1712.5	1745	1777.5	
5M	CP_QPSK	1	0	19.38	19.73	19.60	0
		1	12	19.34	19.69	19.56	0
		1	24	19.38	19.65	19.60	0
		12	0	19.18	19.53	19.40	0
		12	6	19.14	19.49	19.36	0
		12	13	19.06	19.41	19.28	0
		25	0	19.12	19.47	19.34	0
	CP_16QAM	1	0	19.15	19.50	19.37	0
		1	12	19.03	19.28	19.15	0
		1	24	19.01	19.23	19.10	0
		12	0	19.12	19.47	19.34	0
		12	6	19.03	19.38	19.25	0
		12	13	19.05	19.33	19.20	0
		25	0	19.02	19.35	19.22	0
	CP_64QAM	1	0	19.06	19.41	19.28	0
		1	12	19.04	19.29	19.16	0
		1	24	19.05	19.20	19.07	0
		12	0	19.04	19.39	19.26	0
		12	6	19.02	19.37	19.24	0
		12	13	19.03	19.33	19.20	0
		25	0	19.01	19.35	19.22	0

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		343000	349000	355000	
		Frequency (MHz)		1715	1745	1775	
10M	DFT-S_QPSK	1	0	19.45	19.80	19.67	0
		1	26	19.10	19.45	19.32	0
		1	51	19.01	19.25	19.12	0
		26	0	19.40	19.75	19.62	0
		26	13	19.34	19.69	19.56	0
		26	26	19.20	19.55	19.42	0
		52	0	19.25	19.60	19.47	0
	DFT-S_16QAM	1	0	19.41	19.76	19.63	0
		1	26	19.35	19.70	19.57	0
		1	51	19.21	19.56	19.43	0
		26	0	19.36	19.71	19.58	0
		26	13	19.27	19.62	19.49	0
		26	26	19.20	19.55	19.42	0
		52	0	19.28	19.63	19.50	0
	DFT-S_64QAM	1	0	19.27	19.62	19.49	0
		1	26	19.20	19.55	19.42	0
		1	51	19.18	19.53	19.40	0
		26	0	19.25	19.60	19.47	0
		26	13	19.20	19.55	19.42	0
		26	26	19.18	19.53	19.40	0
		52	0	19.22	19.57	19.44	0

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		343000	349000	355000	
		Frequency (MHz)		1715	1745	1775	
10M	CP_QPSK	1	0	19.40	19.75	19.62	0
		1	26	19.36	19.71	19.58	0
		1	51	19.40	19.68	19.62	0
		26	0	19.20	19.55	19.42	0
		26	13	19.16	19.51	19.38	0
		26	26	19.08	19.43	19.30	0
		52	0	19.14	19.49	19.36	0
	CP_16QAM	1	0	19.17	19.52	19.39	0
		1	26	19.05	19.30	19.17	0
		1	51	19.09	19.25	19.12	0
		26	0	19.14	19.49	19.36	0
		26	13	19.05	19.40	19.27	0
		26	26	19.02	19.35	19.22	0
		52	0	19.02	19.37	19.24	0
	CP_64QAM	1	0	19.08	19.43	19.30	0
		1	26	19.06	19.31	19.18	0
		1	51	19.07	19.22	19.09	0
		26	0	19.06	19.41	19.28	0
		26	13	19.04	19.39	19.26	0
		26	26	19.03	19.35	19.22	0
		52	0	19.02	19.37	19.24	0

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		343500	349000	354500	
		Frequency (MHz)		1717.5	1745	1772.5	
15M	DFT-S_QPSK	1	0	19.48	19.83	19.70	0
		1	39	19.13	19.48	19.35	0
		1	78	19.03	19.28	19.15	0
		39	0	19.43	19.78	19.65	0
		39	19	19.37	19.72	19.59	0
		39	40	19.23	19.58	19.45	0
		79	0	19.28	19.63	19.50	0
	DFT-S_16QAM	1	0	19.44	19.79	19.66	0
		1	39	19.38	19.73	19.60	0
		1	78	19.24	19.59	19.46	0
		39	0	19.39	19.74	19.61	0
		39	19	19.30	19.65	19.52	0
		39	40	19.23	19.58	19.45	0
		79	0	19.31	19.66	19.53	0
	DFT-S_64QAM	1	0	19.30	19.65	19.52	0
		1	39	19.23	19.58	19.45	0
		1	78	19.21	19.56	19.43	0
		39	0	19.28	19.63	19.50	0
		39	19	19.23	19.58	19.45	0
		39	40	19.21	19.56	19.43	0
		79	0	19.25	19.60	19.47	0

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		343500	349000	354500	
		Frequency (MHz)		1717.5	1745	1772.5	
15M	CP_QPSK	1	0	19.43	19.78	19.65	0
		1	39	19.39	19.74	19.61	0
		1	78	19.43	19.71	19.65	0
		39	0	19.23	19.58	19.45	0
		39	19	19.19	19.54	19.41	0
		39	40	19.11	19.46	19.33	0
		79	0	19.17	19.52	19.39	0
	CP_16QAM	1	0	19.20	19.55	19.42	0
		1	39	19.08	19.33	19.20	0
		1	78	19.02	19.28	19.15	0
		39	0	19.17	19.52	19.39	0
		39	19	19.08	19.43	19.30	0
		39	40	19.03	19.38	19.25	0
		79	0	19.05	19.40	19.27	0
	CP_64QAM	1	0	19.11	19.46	19.33	0
		1	39	19.09	19.34	19.21	0
		1	78	19.10	19.25	19.12	0
		39	0	19.09	19.44	19.31	0
		39	19	19.07	19.42	19.29	0
		39	40	19.03	19.38	19.25	0
		79	0	19.05	19.40	19.27	0

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		344000	349000	354000	
		Frequency (MHz)		1720	1745	1770	
20M	DFT-S_QPSK	1	0	19.51	19.86	19.73	0
		1	53	19.16	19.51	19.38	0
		1	105	19.06	19.31	19.18	0
		50	0	19.46	19.81	19.68	0
		50	25	19.40	19.75	19.62	0
		50	50	19.26	19.61	19.48	0
		106	0	19.31	19.66	19.53	0
	DFT-S_16QAM	1	0	19.47	19.82	19.69	0
		1	53	19.41	19.76	19.63	0
		1	105	19.27	19.62	19.49	0
		50	0	19.42	19.77	19.64	0
		50	25	19.33	19.68	19.55	0
		50	50	19.26	19.61	19.48	0
		106	0	19.34	19.69	19.56	0
	DFT-S_64QAM	1	0	19.33	19.68	19.55	0
		1	53	19.26	19.61	19.48	0
		1	105	19.24	19.59	19.46	0
		50	0	19.31	19.66	19.53	0
		50	25	19.26	19.61	19.48	0
		50	50	19.24	19.59	19.46	0
		106	0	19.28	19.63	19.50	0

NR Band 66							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		344000	349000	354000	
		Frequency (MHz)		1720	1745	1770	
20M	CP_QPSK	1	0	19.46	19.81	19.68	0
		1	53	19.42	19.77	19.64	0
		1	105	19.46	19.75	19.68	0
		50	0	19.26	19.61	19.48	0
		50	26	19.22	19.57	19.44	0
		50	50	19.14	19.49	19.36	0
		106	0	19.20	19.55	19.42	0
	CP_16QAM	1	0	19.23	19.58	19.45	0
		1	53	19.01	19.36	19.23	0
		1	105	19.05	19.31	19.18	0
		50	0	19.20	19.55	19.42	0
		50	26	19.11	19.46	19.33	0
		50	50	19.06	19.41	19.28	0
		106	0	19.08	19.43	19.30	0
	CP_64QAM	1	0	19.14	19.49	19.36	0
		1	53	19.02	19.37	19.24	0
		1	105	19.13	19.28	19.15	0
		50	0	19.12	19.47	19.34	0
		50	26	19.10	19.45	19.32	0
		50	50	19.06	19.41	19.28	0
		106	0	19.08	19.43	19.30	0

EIRP Power (dBm)

1RB

Modulation Type: QPSK

NR Band 66, Channel Bandwidth: 5MHz

MODE		TX channel 342500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-18.6	19.9	1.0	20.9	30.0	-9.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-23.5	15.7	1.0	16.7	30.0	-13.3

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-18.5	20.3	1.0	21.3	30.0	-8.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-23.8	15.4	1.0	16.4	30.0	-13.6

MODE		TX channel 355500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-19.0	20.0	1.1	21.1	30.0	-8.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-23.9	15.2	1.1	16.3	30.0	-13.7

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 10MHz

MODE		TX channel 343000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-18.7	19.8	1.0	20.8	30.0	-9.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-23.6	15.6	1.0	16.6	30.0	-13.4

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.0	19.8	1.0	20.8	30.0	-9.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-23.9	15.3	1.0	16.3	30.0	-13.7

MODE		TX channel 355000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-19.1	19.9	1.1	21.0	30.0	-9.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-24.0	15.1	1.1	16.2	30.0	-13.8

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 15MHz

MODE		TX channel 343500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-18.8	19.7	1.0	20.7	30.0	-9.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-23.9	15.3	1.0	16.3	30.0	-13.7

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.2	19.6	1.0	20.6	30.0	-9.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.0	15.2	1.0	16.2	30.0	-13.8

MODE		TX channel 354500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-19.3	19.6	1.1	20.7	30.0	-9.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-24.2	14.9	1.1	16.0	30.0	-14.0

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 20MHz

MODE		TX channel 344000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-18.6	19.9	1.0	20.9	30.0	-9.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-23.6	15.6	1.0	16.6	30.0	-13.4

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.0	19.8	1.0	20.8	30.0	-9.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-23.9	15.3	1.0	16.3	30.0	-13.7

MODE		TX channel 354000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-19.1	19.8	1.1	20.9	30.0	-9.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-24.0	15.1	1.1	16.2	30.0	-13.8

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 16QAM

NR Band 66, Channel Bandwidth: 5MHz

MODE		TX channel 342500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-19.1	19.4	1.0	20.4	30.0	-9.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-24.0	15.2	1.0	16.2	30.0	-13.8

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.4	19.4	1.0	20.4	30.0	-9.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.3	14.9	1.0	15.9	30.0	-14.1

MODE		TX channel 355500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-19.5	19.5	1.1	20.6	30.0	-9.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-24.4	14.7	1.1	15.8	30.0	-14.2

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 10MHz

MODE		TX channel 343000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-19.3	19.2	1.0	20.2	30.0	-9.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-24.1	15.1	1.0	16.1	30.0	-13.9

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.5	19.3	1.0	20.3	30.0	-9.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.4	14.8	1.0	15.8	30.0	-14.2

MODE		TX channel 355000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-19.7	19.3	1.1	20.4	30.0	-9.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-24.6	14.5	1.1	15.6	30.0	-14.4

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 15MHz

MODE		TX channel 343500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-19.4	19.1	1.0	20.1	30.0	-9.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-24.2	15.0	1.0	16.0	30.0	-14.0

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.7	19.1	1.0	20.1	30.0	-9.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.5	14.7	1.0	15.7	30.0	-14.3

MODE		TX channel 354500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-19.8	19.1	1.1	20.2	30.0	-9.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-24.7	14.4	1.1	15.5	30.0	-14.5

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 20MHz

MODE		TX channel 344000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-19.3	19.2	1.0	20.2	30.0	-9.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-24.1	15.1	1.0	16.1	30.0	-13.9

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.5	19.3	1.0	20.3	30.0	-9.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.3	14.9	1.0	15.9	30.0	-14.1

MODE		TX channel 354000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-19.6	19.3	1.1	20.4	30.0	-9.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-24.5	14.6	1.1	15.7	30.0	-14.3

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 64QAM

NR Band 66, Channel Bandwidth: 5MHz

MODE		TX channel 342500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-20.1	18.4	1.0	19.4	30.0	-10.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-25.0	14.2	1.0	15.2	30.0	-14.8

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.4	18.4	1.0	19.4	30.0	-10.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.3	13.9	1.0	14.9	30.0	-15.1

MODE		TX channel 355500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-20.5	18.5	1.1	19.6	30.0	-10.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-25.4	13.7	1.1	14.8	30.0	-15.2

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 10MHz

MODE		TX channel 343000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-20.3	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-25.1	14.1	1.0	15.1	30.0	-14.9

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.6	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.5	13.7	1.0	14.7	30.0	-15.3

MODE		TX channel 355000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-20.7	18.3	1.1	19.4	30.0	-10.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-25.6	13.5	1.1	14.6	30.0	-15.4

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 15MHz

MODE		TX channel 343500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-20.5	18.0	1.0	19.0	30.0	-11.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-25.5	13.7	1.0	14.7	30.0	-15.3

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.6	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.7	13.5	1.0	14.5	30.0	-15.5

MODE		TX channel 354500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-20.6	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-25.7	13.5	1.0	14.5	30.0	-15.5

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 20MHz

MODE		TX channel 344000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-20.3	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-25.2	14.0	1.0	15.0	30.0	-15.0

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.5	18.3	1.0	19.3	30.0	-10.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.4	13.8	1.0	14.8	30.0	-15.2

MODE		TX channel 354000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-20.5	18.4	1.1	19.5	30.0	-10.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-25.5	13.6	1.1	14.7	30.0	-15.3

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Full RB

Modulation Type: QPSK

NR Band 66, Channel Bandwidth: 5MHz

MODE		TX channel 342500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-19.6	18.9	1.0	19.9	30.0	-10.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-24.5	14.7	1.0	15.7	30.0	-14.3

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-19.9	18.9	1.0	19.9	30.0	-10.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.8	14.4	1.0	15.4	30.0	-14.6

MODE		TX channel 355500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-20.0	19.0	1.1	20.1	30.0	-9.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-24.9	14.2	1.1	15.3	30.0	-14.7

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 10MHz

MODE		TX channel 343000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-19.7	18.8	1.0	19.8	30.0	-10.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-24.6	14.6	1.0	15.6	30.0	-14.4

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.0	18.8	1.0	19.8	30.0	-10.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-24.9	14.3	1.0	15.3	30.0	-14.7

MODE		TX channel 355000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-20.2	18.8	1.1	19.9	30.0	-10.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-25.0	14.1	1.1	15.2	30.0	-14.8

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 15MHz

MODE		TX channel 343500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-19.8	18.7	1.0	19.7	30.0	-10.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-24.8	14.4	1.0	15.4	30.0	-14.6

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.1	18.7	1.0	19.7	30.0	-10.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.2	14.0	1.0	15.0	30.0	-15.0

MODE		TX channel 354500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-20.2	18.7	1.1	19.8	30.0	-10.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-24.9	14.2	1.1	15.3	30.0	-14.7

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 20MHz

MODE		TX channel 344000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-19.7	18.8	1.0	19.8	30.0	-10.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-24.6	14.6	1.0	15.6	30.0	-14.4

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.0	18.8	1.0	19.8	30.0	-10.2
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.0	14.2	1.0	15.2	30.0	-14.8

MODE		TX channel 354000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-20.1	18.8	1.1	19.9	30.0	-10.1
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-24.8	14.3	1.1	15.4	30.0	-14.6

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 16QAM

NR Band 66, Channel Bandwidth: 5MHz

MODE		TX channel 342500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-20.1	18.4	1.0	19.4	30.0	-10.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-25.0	14.2	1.0	15.2	30.0	-14.8

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.4	18.4	1.0	19.4	30.0	-10.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.3	13.9	1.0	14.9	30.0	-15.1

MODE		TX channel 355500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-20.5	18.5	1.1	19.6	30.0	-10.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-25.4	13.7	1.1	14.8	30.0	-15.2

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 10MHz

MODE		TX channel 343000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-20.2	18.3	1.0	19.3	30.0	-10.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-25.1	14.1	1.0	15.1	30.0	-14.9

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.6	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.4	13.8	1.0	14.8	30.0	-15.2

MODE		TX channel 355000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-20.6	18.4	1.1	19.5	30.0	-10.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-25.5	13.6	1.1	14.7	30.0	-15.3

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 15MHz

MODE		TX channel 343500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-20.5	18.0	1.0	19.0	30.0	-11.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-25.2	14.0	1.0	15.0	30.0	-15.0

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.6	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.7	13.5	1.0	14.5	30.0	-15.5

MODE		TX channel 354500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-20.9	18.0	1.1	19.1	30.0	-10.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-25.6	13.5	1.1	14.6	30.0	-15.4

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 20MHz

MODE		TX channel 344000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-20.3	18.2	1.0	19.2	30.0	-10.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-25.1	14.1	1.0	15.1	30.0	-14.9

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-20.5	18.3	1.0	19.3	30.0	-10.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-25.5	13.7	1.0	14.7	30.0	-15.3

MODE		TX channel 354000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-20.7	18.2	1.1	19.3	30.0	-10.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-25.5	13.6	1.1	14.7	30.0	-15.3

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

Modulation Type: 64QAM

NR Band 66, Channel Bandwidth: 5MHz

MODE		TX channel 342500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-21.1	17.4	1.0	18.4	30.0	-11.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1712.50	-26.0	13.2	1.0	14.2	30.0	-15.8

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-21.4	17.4	1.0	18.4	30.0	-11.6
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-26.3	12.9	1.0	13.9	30.0	-16.1

MODE		TX channel 355500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-21.5	17.5	1.1	18.6	30.0	-11.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1777.50	-26.4	12.7	1.1	13.8	30.0	-16.2

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 10MHz

MODE		TX channel 343000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-21.3	17.2	1.0	18.2	30.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1715.00	-26.1	13.1	1.0	14.1	30.0	-15.9

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-21.5	17.3	1.0	18.3	30.0	-11.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-26.5	12.7	1.0	13.7	30.0	-16.3

MODE		TX channel 355000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-21.6	17.4	1.1	18.5	30.0	-11.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1775.00	-26.5	12.6	1.1	13.7	30.0	-16.3

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 15MHz

MODE		TX channel 343500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-21.5	17.0	1.0	18.0	30.0	-12.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1717.50	-26.6	12.6	1.0	13.6	30.0	-16.4

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-21.6	17.2	1.0	18.2	30.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-26.9	12.3	1.0	13.3	30.0	-16.7

MODE		TX channel 354500					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-22.0	16.9	1.1	18.0	30.0	-12.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1772.50	-27.1	12.0	1.1	13.1	30.0	-16.9

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

NR Band 66, Channel Bandwidth: 20MHz

MODE		TX channel 344000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-21.3	17.2	1.0	18.2	30.0	-11.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1720.00	-26.4	12.8	1.0	13.8	30.0	-16.2

MODE		TX channel 349000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-21.7	17.1	1.0	18.1	30.0	-11.9
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1745.00	-26.5	12.7	1.0	13.7	30.0	-16.3

MODE		TX channel 354000					
Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-21.7	17.2	1.1	18.3	30.0	-11.7
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	1770.00	-26.7	12.4	1.1	13.5	30.0	-16.5

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

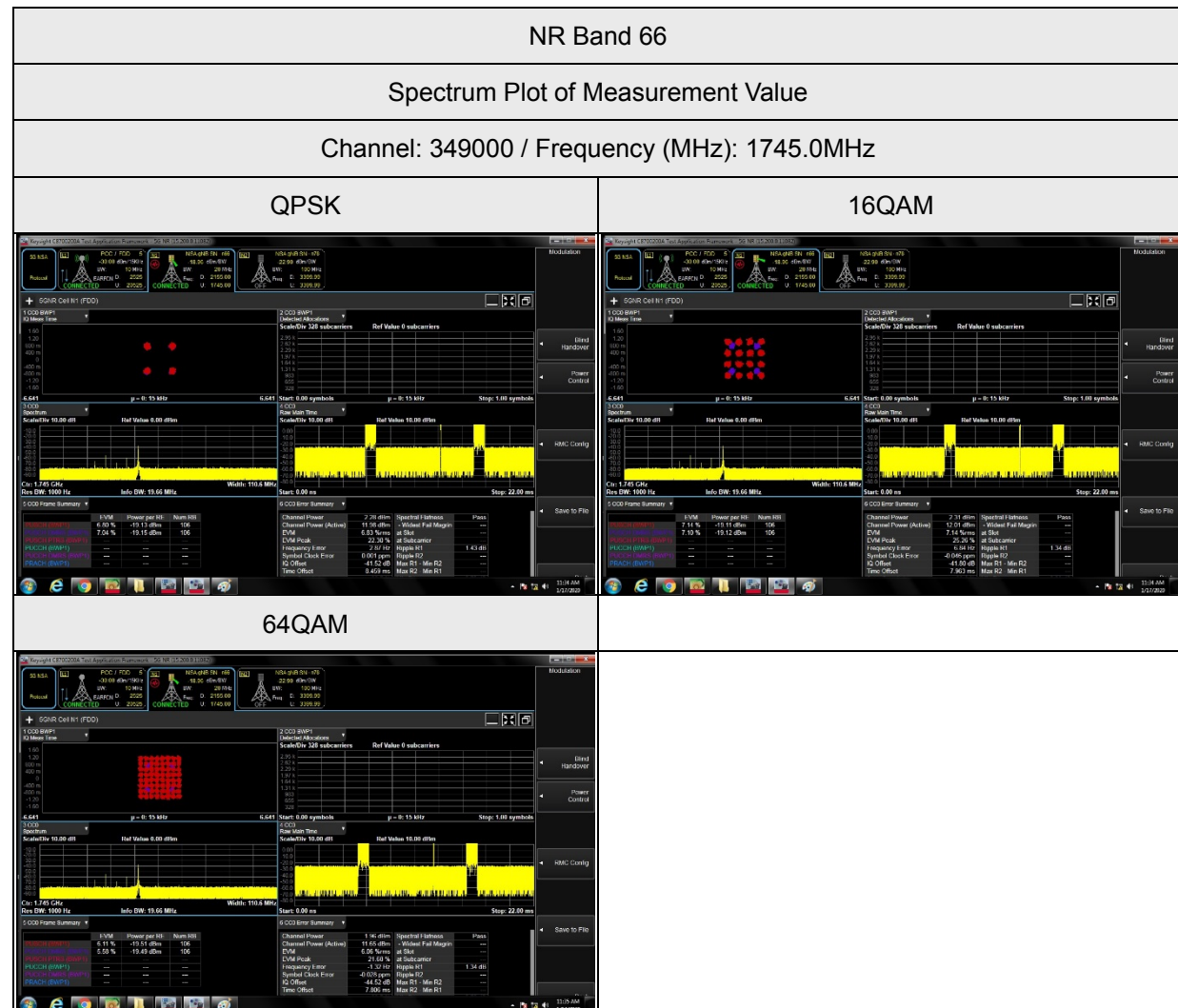
4.2.2 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup



4.2.4 Test Results



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

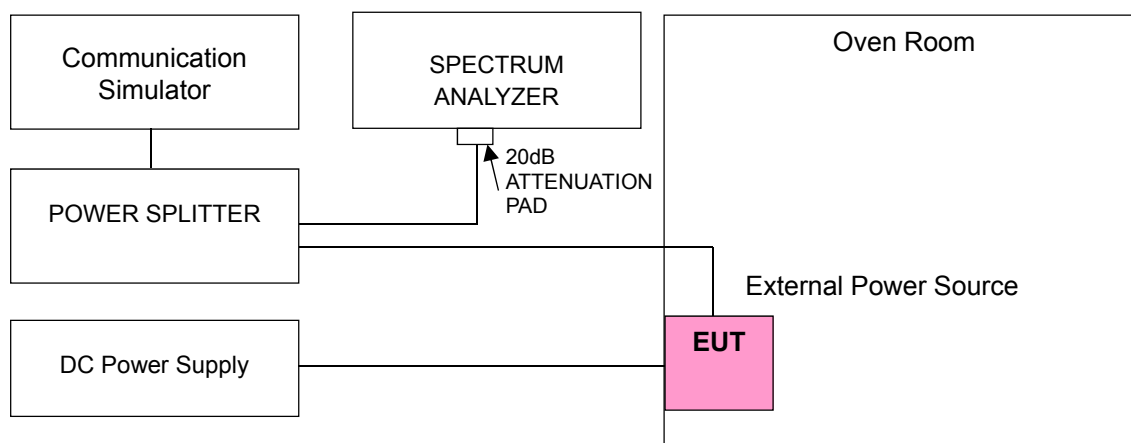
According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with specification of EUT $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

4.3.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Setup



4.3.4 Test Results

Voltage (Volts)	NR Band 66			
	Channel Bandwidth: 5MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.4	1712.500002	0.001	1777.500002	0.001
3.85	1712.500004	0.002	1777.500004	0.002
4.4	1712.500002	0.001	1777.500004	0.002

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	NR Band 66			
	Channel Bandwidth: 5MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.500002	0.001	1777.500001	0.001
-20	1712.500003	0.002	1777.500004	0.002
-10	1712.500002	0.001	1777.500002	0.001
0	1712.500003	0.002	1777.500001	0.001
10	1712.500002	0.001	1777.500002	0.001
20	1712.499997	-0.002	1777.499996	-0.002
30	1712.499997	-0.002	1777.499997	-0.002
40	1712.499997	-0.002	1777.499999	-0.001
50	1712.499997	-0.002	1777.499999	-0.001

Voltage (Volts)	NR Band 66			
	Channel Bandwidth: 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.4	1715.000003	0.002	1775.000004	0.002
3.85	1715.000002	0.001	1775.000002	0.001
4.4	1715.000002	0.001	1775.000003	0.001

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	NR Band 66			
	Channel Bandwidth: 10MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000003	0.002	1775.000003	0.002
-20	1715.000004	0.002	1775.000004	0.002
-10	1715.000003	0.002	1775.000002	0.001
0	1715.000002	0.001	1775.000003	0.002
10	1715.000004	0.002	1775.000002	0.001
20	1714.999998	-0.001	1774.999996	-0.002
30	1714.999999	-0.001	1774.999999	-0.001
40	1714.999998	-0.001	1774.999999	-0.001
50	1714.999998	-0.001	1774.999999	-0.001

Voltage (Volts)	NR Band 66			
	Channel Bandwidth: 15MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.4	1717.500002	0.001	1772.500004	0.002
3.85	1717.500003	0.002	1772.500004	0.002
4.4	1717.500001	0.001	1772.500002	0.001

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	NR Band 66			
	Channel Bandwidth: 15MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.500003	0.002	1772.500004	0.002
-20	1717.500001	0.001	1772.500004	0.002
-10	1717.500001	0.001	1772.500003	0.002
0	1717.500003	0.002	1772.500002	0.001
10	1717.500002	0.001	1772.500004	0.002
20	1717.499999	-0.001	1772.499999	-0.001
30	1717.499997	-0.002	1772.499997	-0.002
40	1717.499997	-0.002	1772.499998	-0.001
50	1717.499997	-0.002	1772.499998	-0.001

Voltage (Volts)	NR Band 66			
	Channel Bandwidth: 20MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.4	1720.000002	0.001	1770.000004	0.002
3.85	1720.000004	0.002	1770.000004	0.002
4.4	1720.000002	0.001	1770.000004	0.002

Note: The applicant defined the normal working voltage is from 3.4Vdc to 4.4Vdc.

Frequency Error vs. Temperature

Temp. (°C)	NR Band 66			
	Channel Bandwidth: 20MHz			
	Low Channel		High Channel	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000001	0.001	1770.000001	0.001
-20	1720.000001	0.001	1770.000003	0.001
-10	1720.000002	0.001	1770.000002	0.001
0	1720.000002	0.001	1770.000001	0.001
10	1720.000003	0.002	1770.000004	0.002
20	1719.999999	-0.001	1769.999998	-0.001
30	1719.999997	-0.002	1769.999998	-0.001
40	1719.999998	-0.001	1769.999998	-0.001
50	1719.999998	-0.001	1769.999998	-0.001

4.4 Emission Bandwidth Measurement

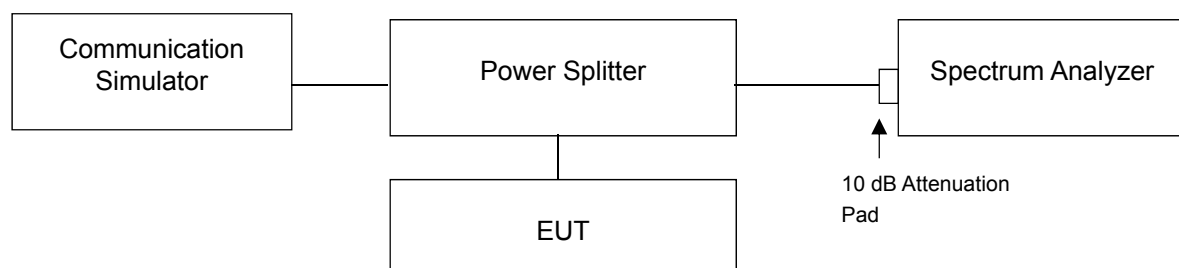
4.4.1 Limits of Emission Bandwidth Measurement

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.4.2 Test Procedure

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.4.3 Test Setup



4.4.4 Test Result

NR Band 66

Channel Bandwidth: 5MHz							
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
342500	1712.5	4.80	4.80	4.80	4.49	4.49	4.49
349000	1745.0	4.79	4.80	4.80	4.49	4.49	4.49
355500	1777.5	4.80	4.80	4.80	4.49	4.49	4.49

Channel Bandwidth: 10MHz							
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
343000	1715.0	9.50	9.50	9.48	8.96	8.96	8.95
349000	1745.0	9.50	9.51	9.51	8.96	8.96	8.95
355000	1775.0	9.50	9.51	9.50	8.96	8.96	8.96

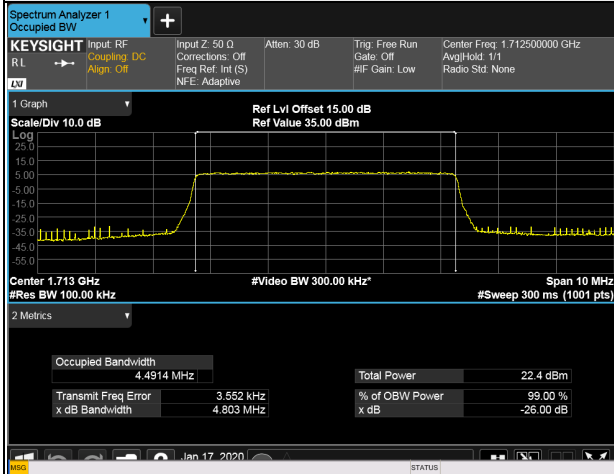
Channel Bandwidth: 15MHz							
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
343500	1717.5	14.25	14.25	14.22	13.45	13.44	13.43
349000	1745.0	14.25	14.26	14.25	13.47	13.46	13.45
354500	1772.5	14.25	14.24	14.26	13.46	13.46	13.45

Channel Bandwidth: 20MHz							
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)			Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
344000	1720.0	19.01	19.02	19.03	17.91	17.92	17.92
349000	1745.0	19.04	19.05	19.06	17.95	17.97	17.96
354000	1770.0	19.03	19.03	19.02	17.93	17.95	17.95

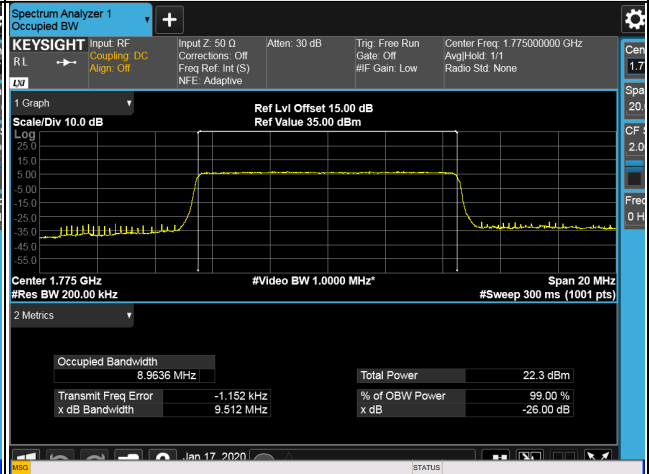
26dBc Bandwidth

Spectrum Plot of Worst Value

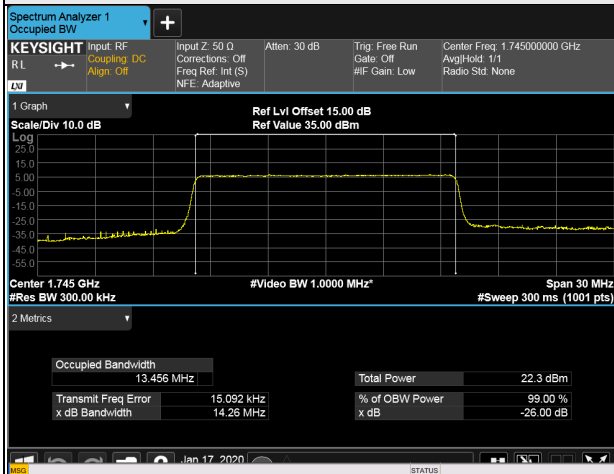
5MHz / 64QAM



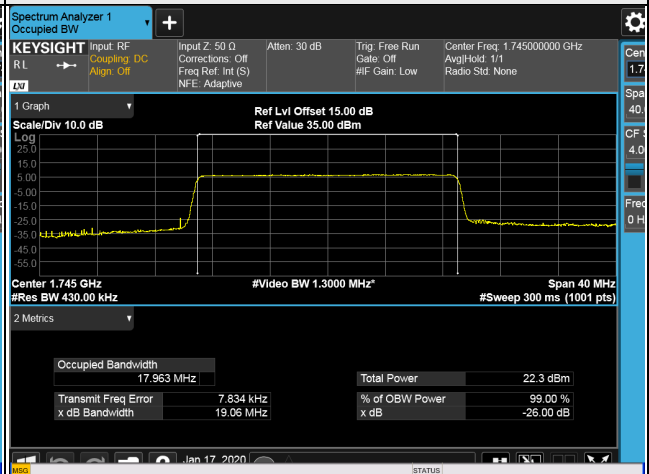
10MHz / 16QAM



15MHz / 16QAM

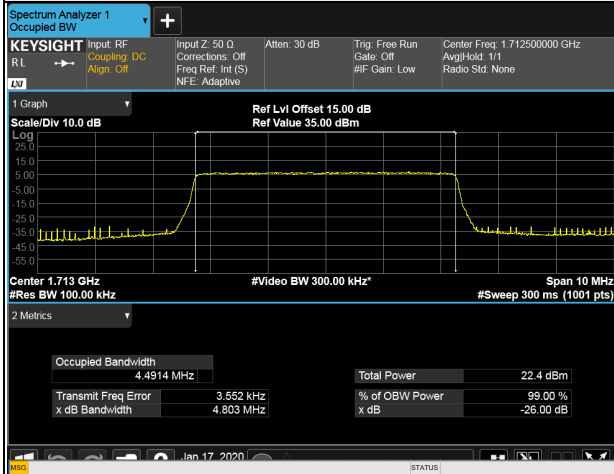


20MHz / 64QAM

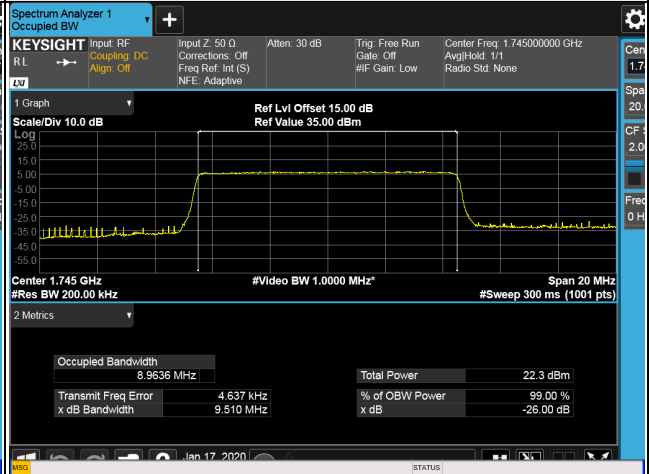


Occupied Bandwidth Spectrum Plot of Worst Value

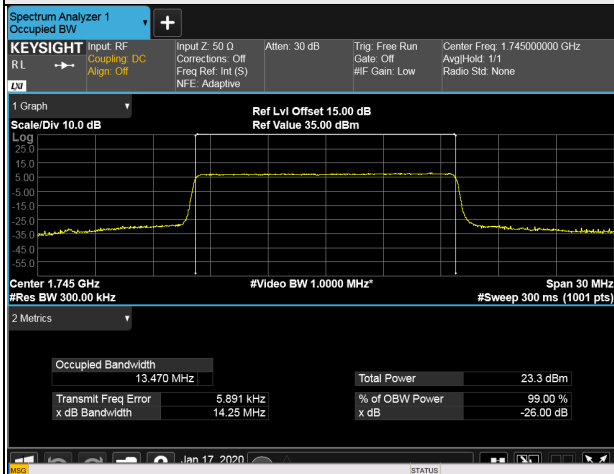
5MHz / 64QAM



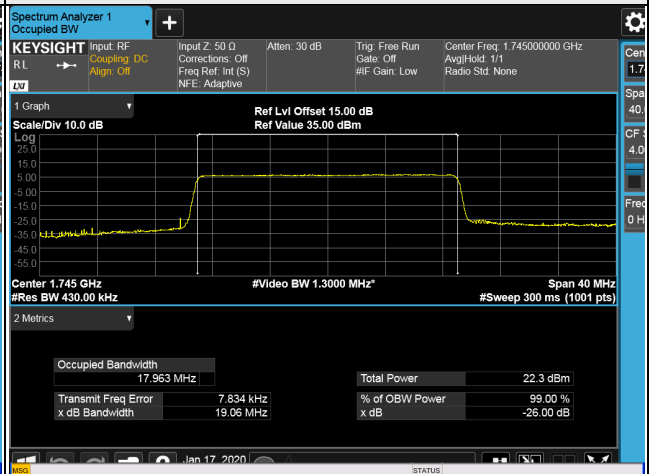
10MHz / 16QAM



15MHz / QPSK



20MHz / 16QAM



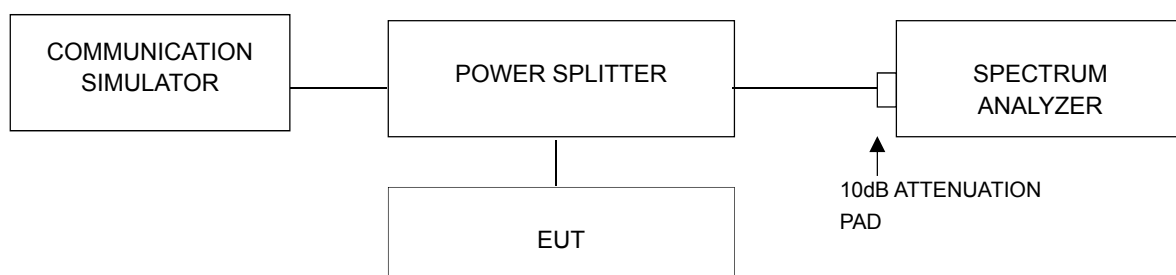
4.5 Channel Edge Measurement

4.5.1 Limits of Band Edge Measurement

For NR Band 66

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

4.5.2 Test Setup



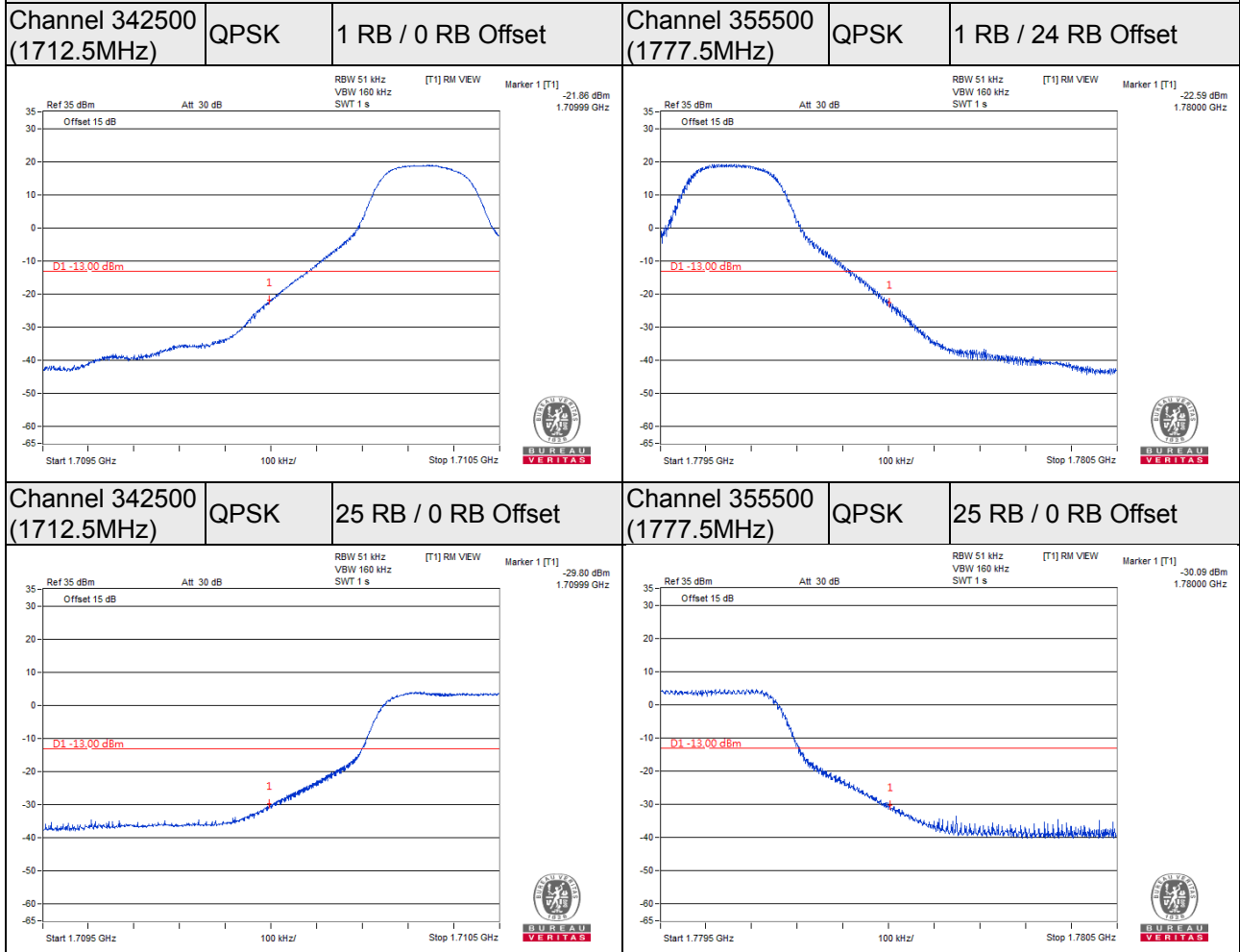
4.5.3 Test Procedures

- The EUT was set up for the rated peak power. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is RBW = 51kHz and VBW = 160kHz (Channel Bandwidth: 5MHz), RBW = 100kHz and VBW = 300kHz (Channel Bandwidth: 10MHz), RBW = 150kHz and VBW = 470kHz (Channel Bandwidth: 15MHz) and RBW = 200kHz and VBW = 1MHz (Channel Bandwidth: 20MHz).
- Record the max trace plot into the test report.

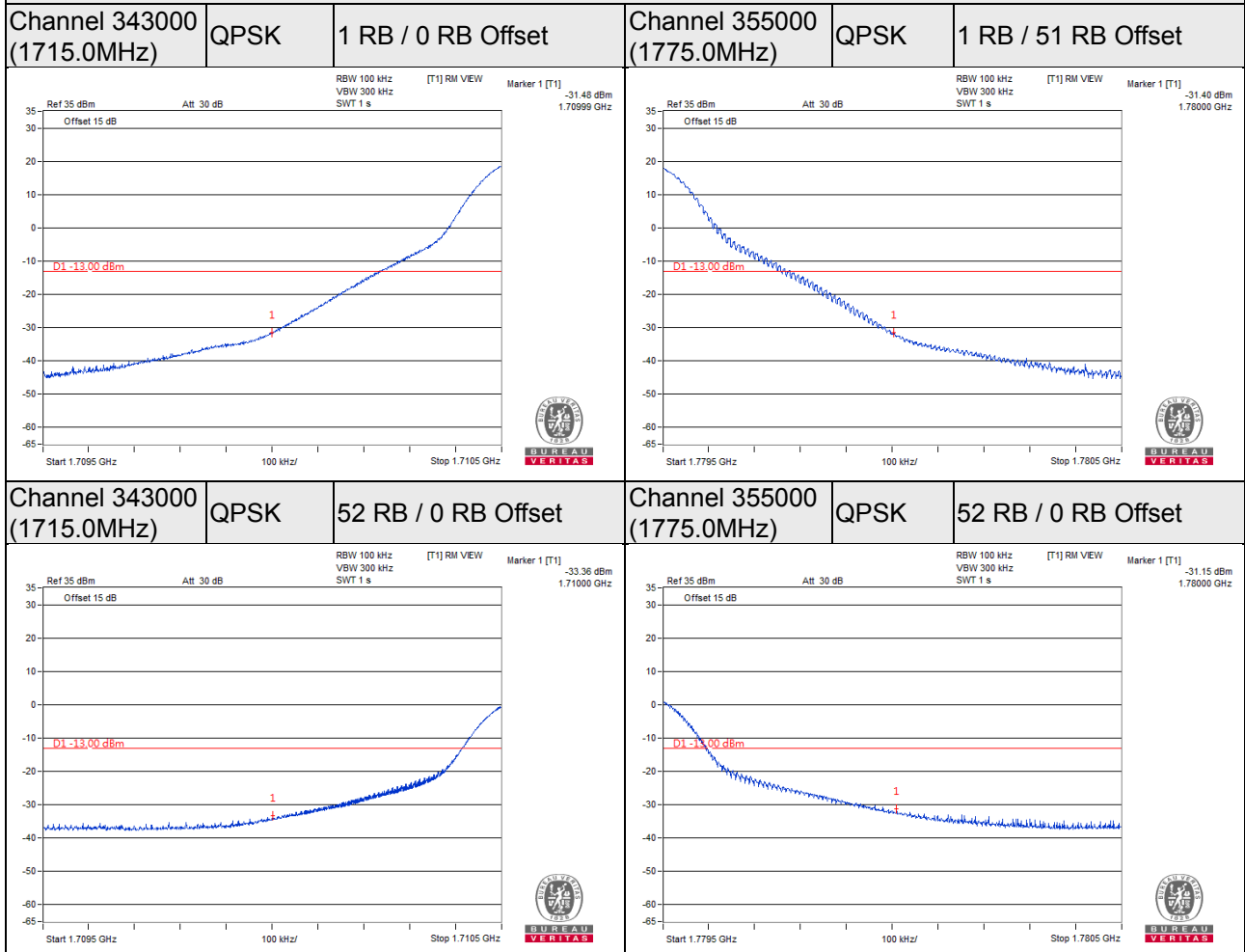
4.5.4 Test Results

NR Band 66

Channel Bandwidth: 5MHz



Channel Bandwidth: 10MHz



Channel Bandwidth: 15MHz

Channel 343500
(1717.5MHz)

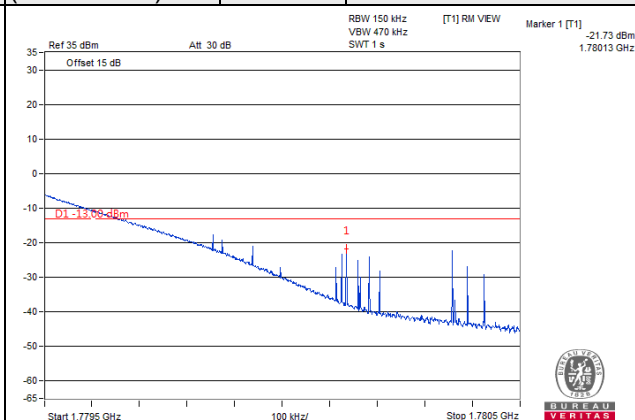
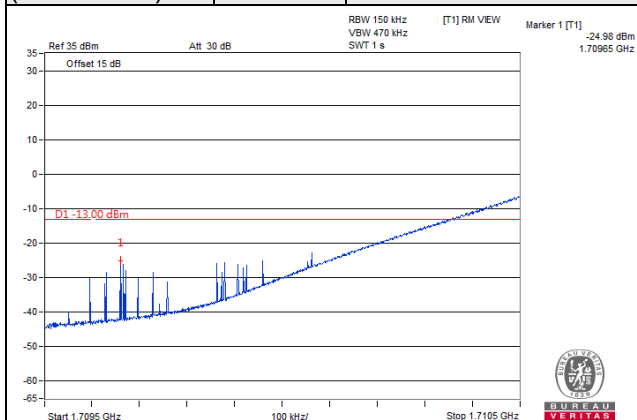
QPSK

1 RB / 0 RB Offset

Channel 354500
(1772.5MHz)

QPSK

1 RB / 78 RB Offset



Channel 343500
(1717.5MHz)

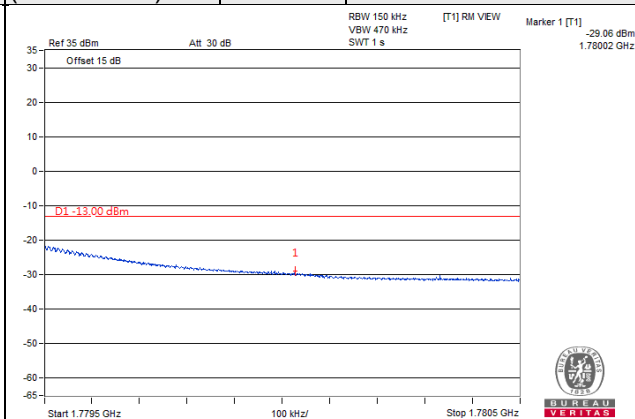
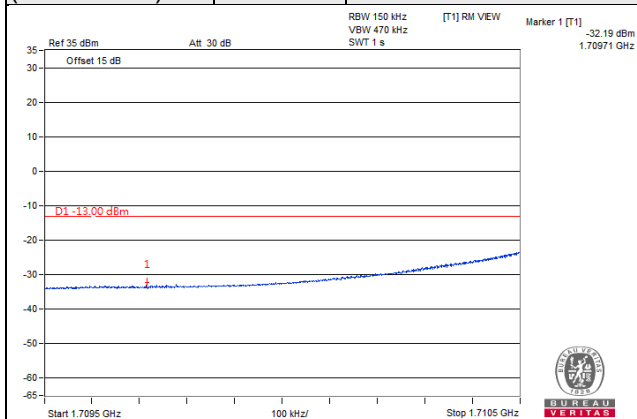
QPSK

79 RB / 0 RB Offset

Channel 354500
(1772.5MHz)

QPSK

79 RB / 0 RB Offset



Channel Bandwidth: 20MHz

Channel 344000
(1720.0MHz)

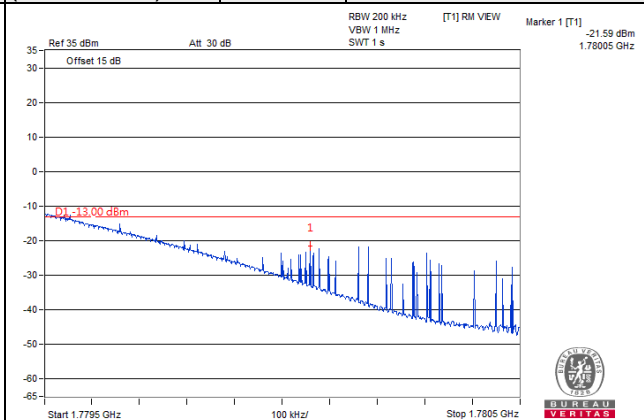
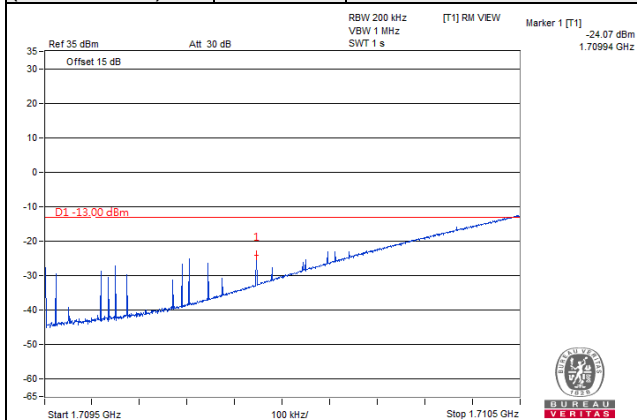
QPSK

1 RB / 0 RB Offset

Channel 354000
(1770.0MHz)

QPSK

1 RB / 105 RB Offset



Channel 344000
(1720.0MHz)

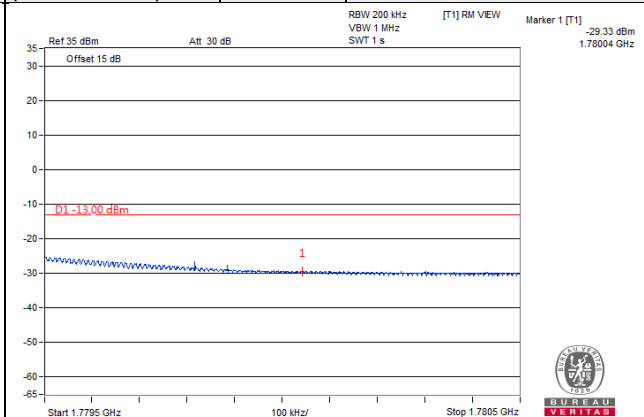
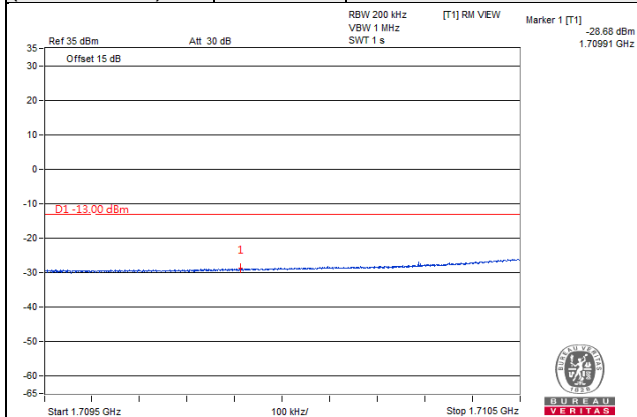
QPSK

106 RB / 0 RB Offset

Channel 354000
(1770.0MHz)

QPSK

106 RB / 0 RB Offset

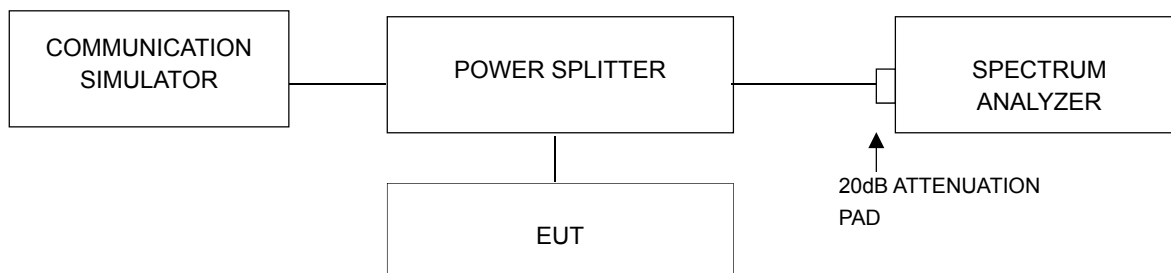


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.6.2 Test Setup



4.6.3 Test Procedures

- Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

4.6.4 Test Results

NR Band 66

NR Band 66, Channel Bandwidth: 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
342500	1712.5	3.75	5.59	5.67
349000	1745.0	3.93	5.48	5.47
355500	1777.5	3.67	5.38	5.46

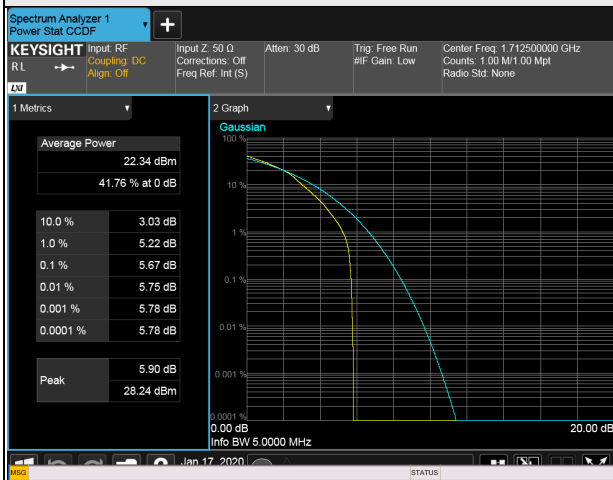
NR Band 66, Channel Bandwidth: 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
343000	1715.0	3.86	5.63	5.68
349000	1745.0	3.81	5.48	5.52
355000	1775.0	3.78	5.37	5.60

NR Band 66, Channel Bandwidth: 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
343500	1717.5	3.56	5.48	5.28
349000	1745.0	3.49	5.25	5.41
354500	1772.5	3.55	5.24	5.31

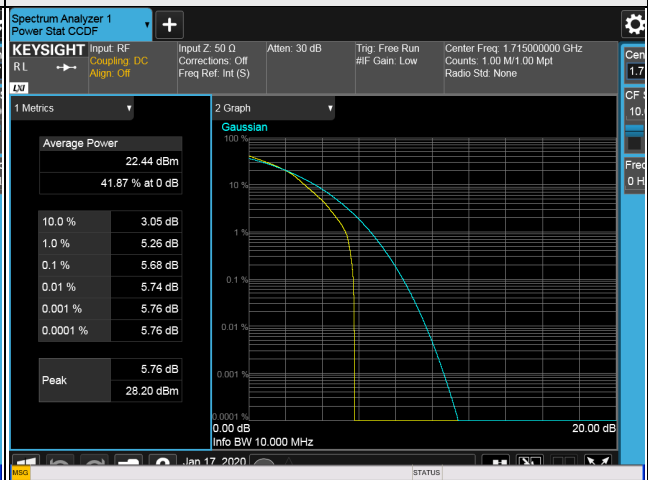
NR Band 66, Channel Bandwidth: 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
344000	1720.0	3.54	5.24	5.58
349000	1745.0	3.60	5.19	5.22
354000	1770.0	3.57	5.28	5.38

Spectrum Plot Of Worst Value

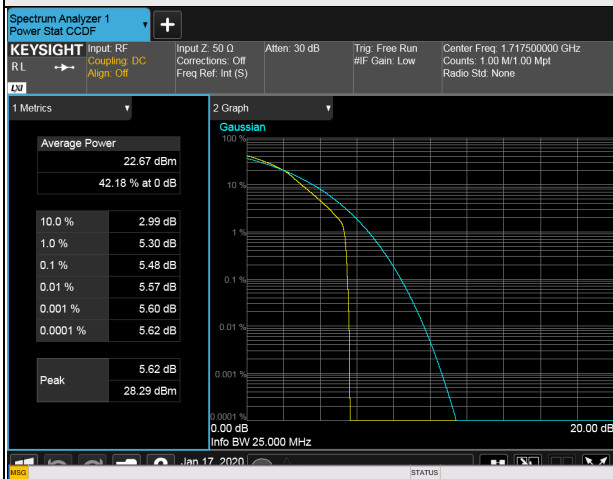
5MHz / 64QAM



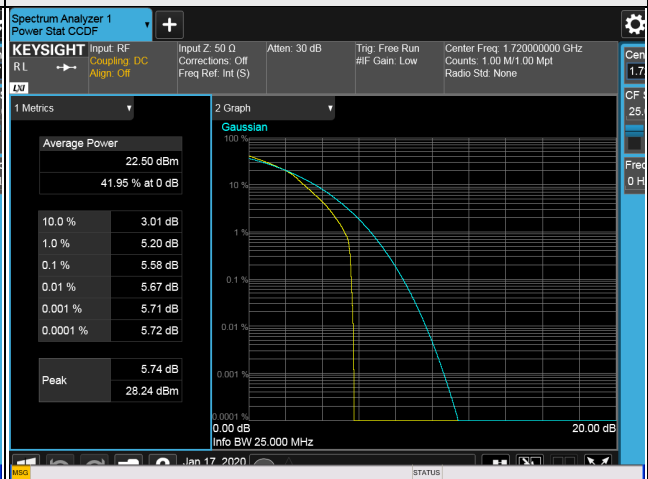
10MHz / 64QAM



15MHz / 16QAM



20MHz / 64QAM



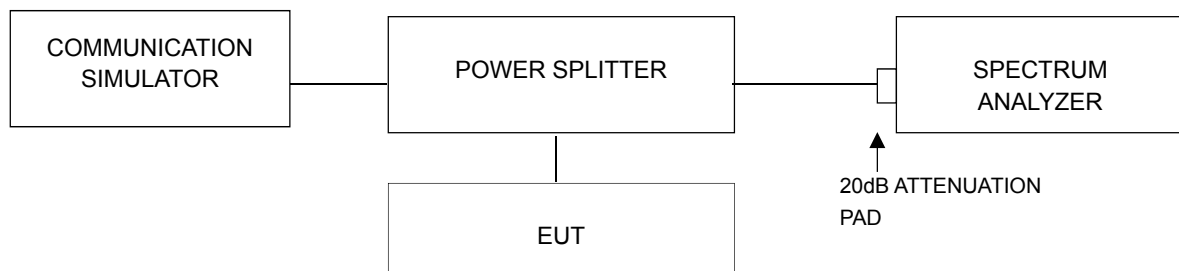
4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

For NR Band 66

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.

4.7.2 Test Setup



4.7.3 Test Procedure

- All measurements were done at 3 channels: low, middle and high operational frequency range.
- When the spectrum scanned from 9kHz to 18GHz, it shall be connected to the attenuator with the carried frequency.

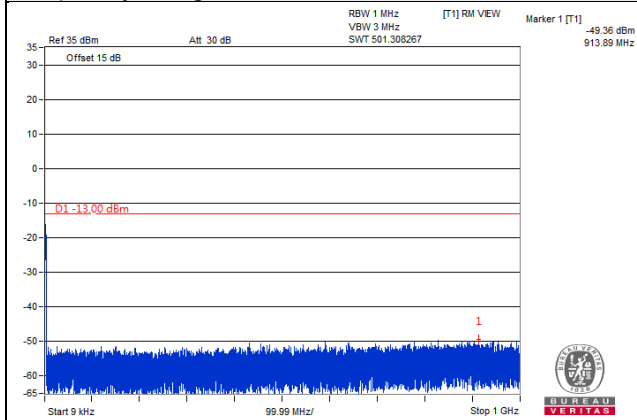
4.7.4 Test Results

NR Band 66

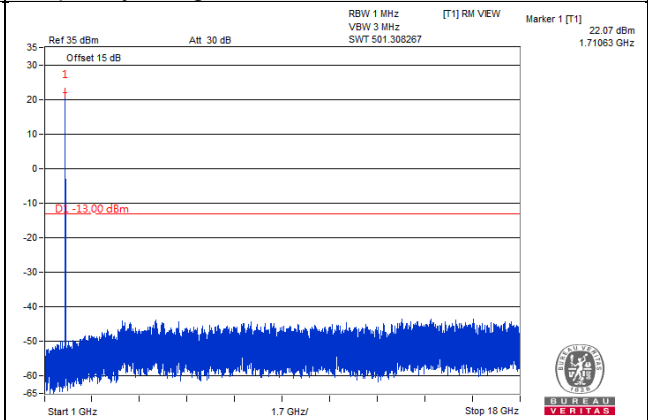
Channel Bandwidth: 5MHz

Channel 342500 (1712.5MHz)

Frequency Range : 9kHz~1GHz

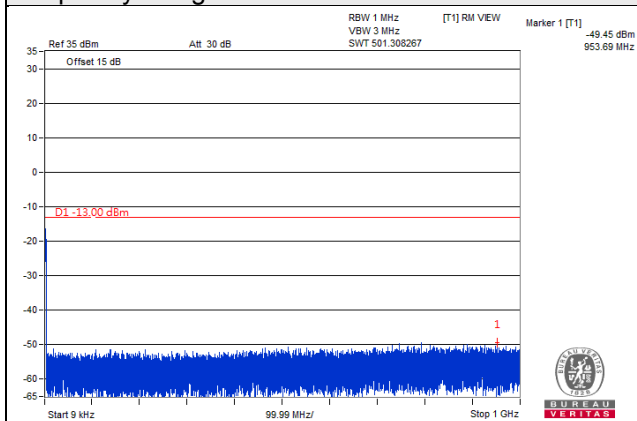


Frequency Range : 1GHz~18GHz

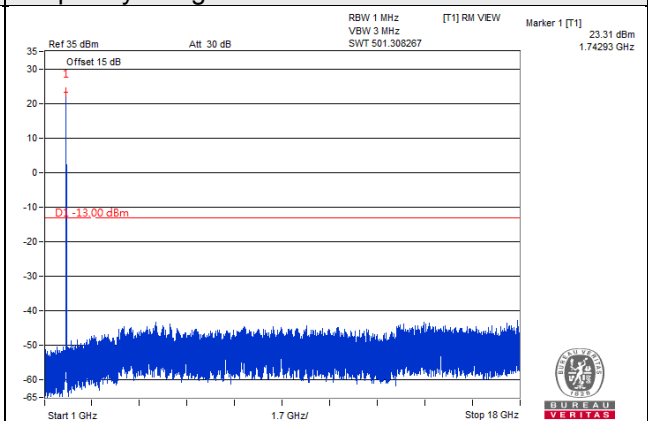


Channel 349000 (1745.0MHz)

Frequency Range : 9kHz~1GHz

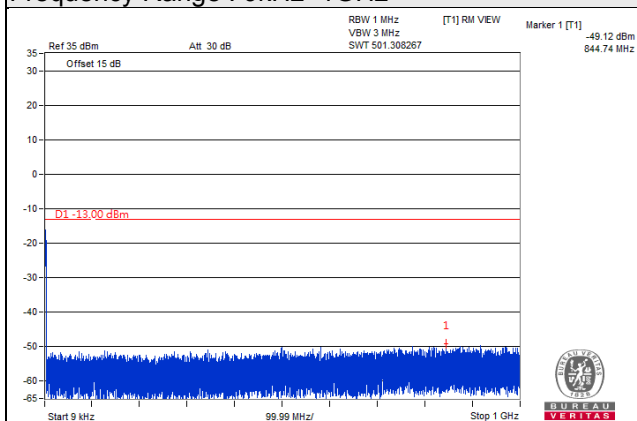


Frequency Range : 1GHz~18GHz

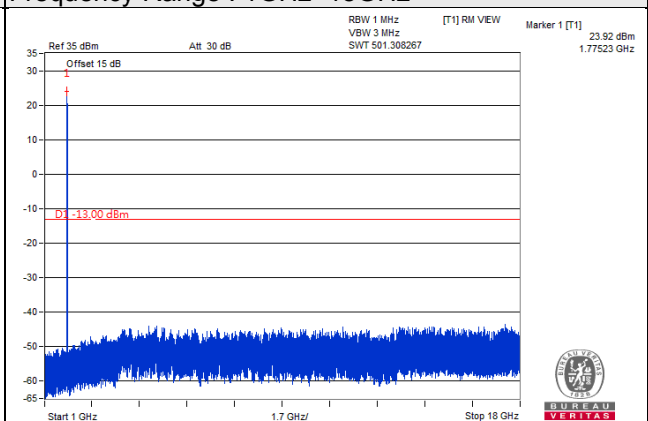


Channel 355500 (1777.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz

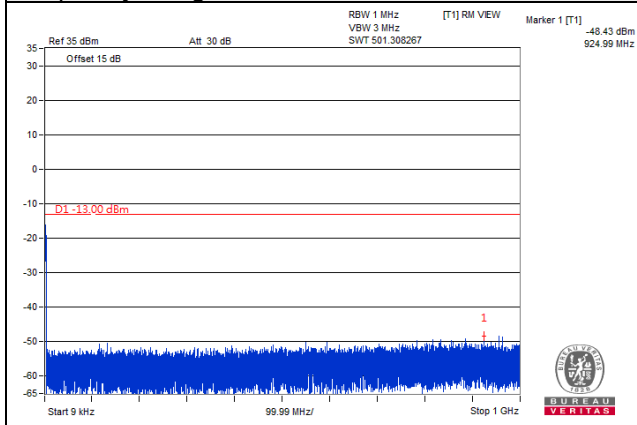


Note: For 9kHz, the signal is from spectrum analyzer.

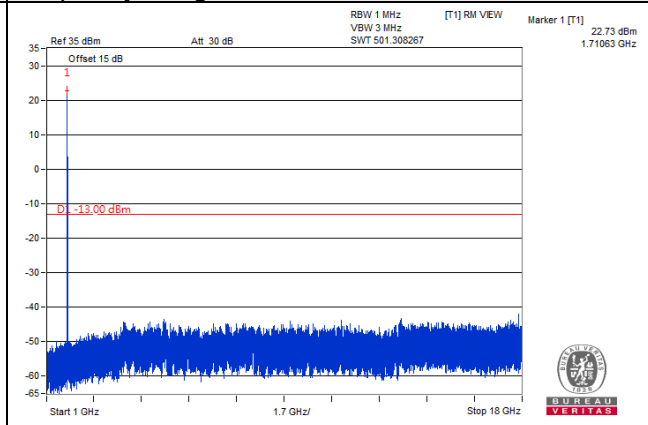
Channel Bandwidth: 10MHz

Channel 343000 (1715.0MHz)

Frequency Range : 9kHz~1GHz

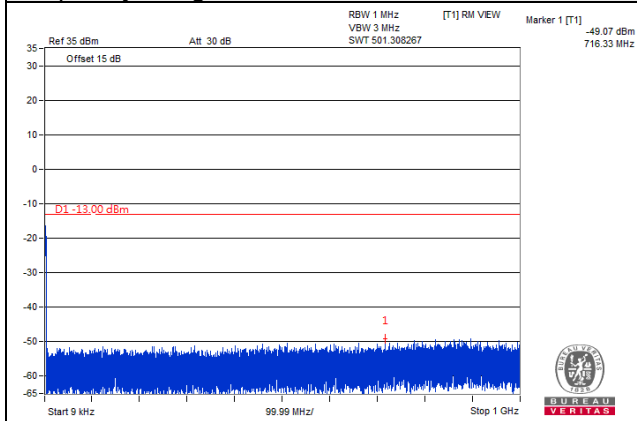


Frequency Range : 1GHz~18GHz

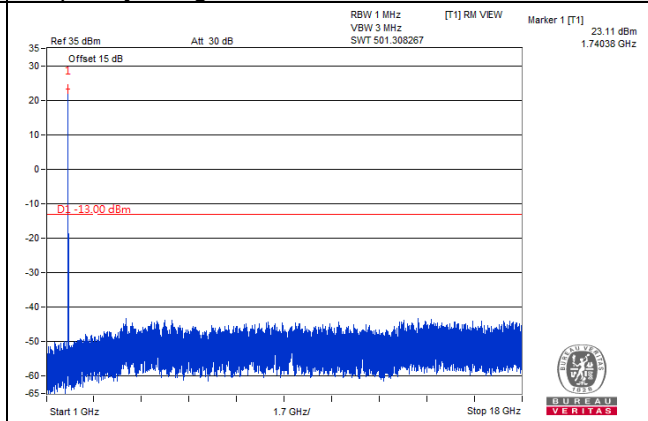


Channel 349000 (1745.0MHz)

Frequency Range : 9kHz~1GHz

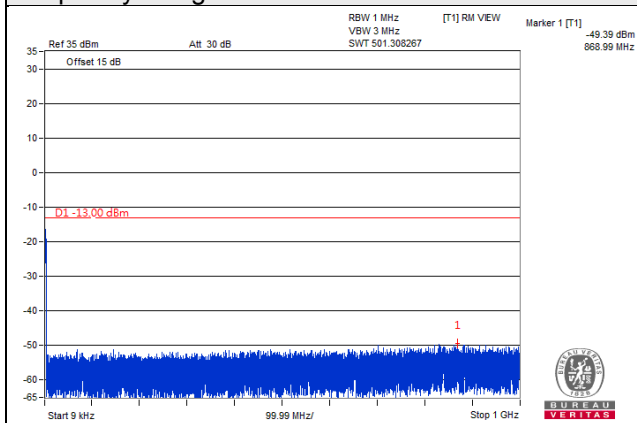


Frequency Range : 1GHz~18GHz

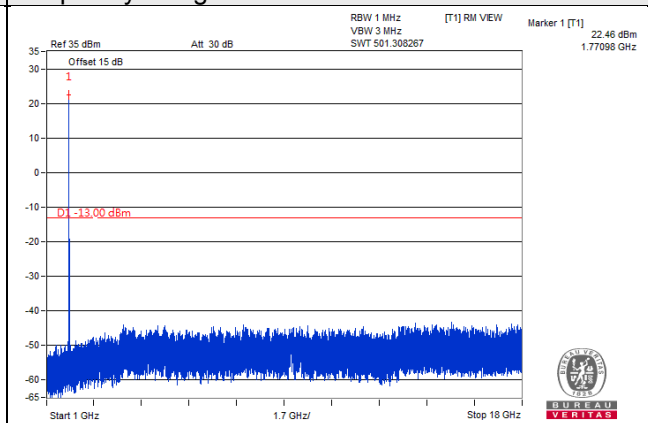


Channel 355000 (1775.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz

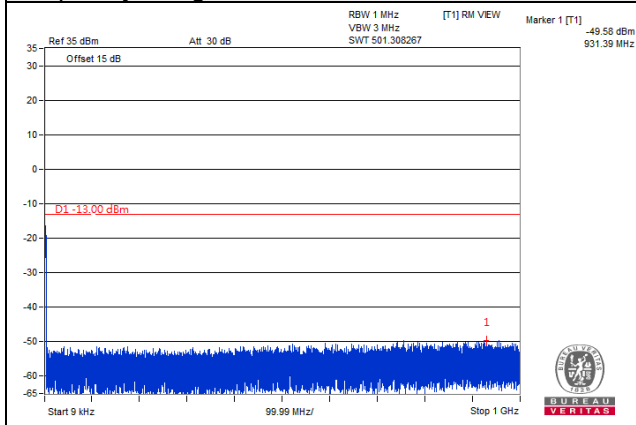


Note: For 9kHz, the signal is from spectrum analyzer.

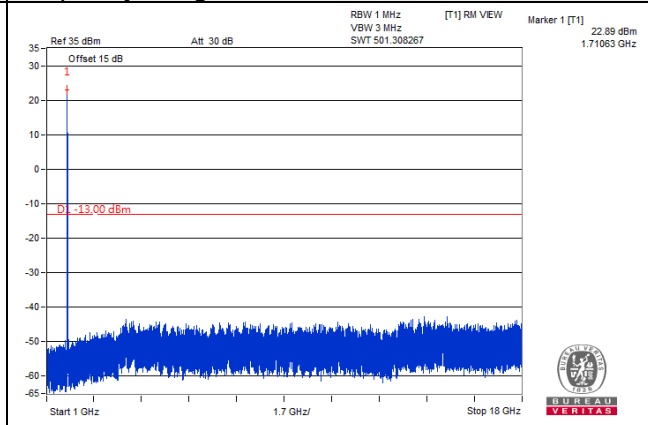
Channel Bandwidth: 15MHz

Channel 343500 (1717.5MHz)

Frequency Range : 9kHz~1GHz

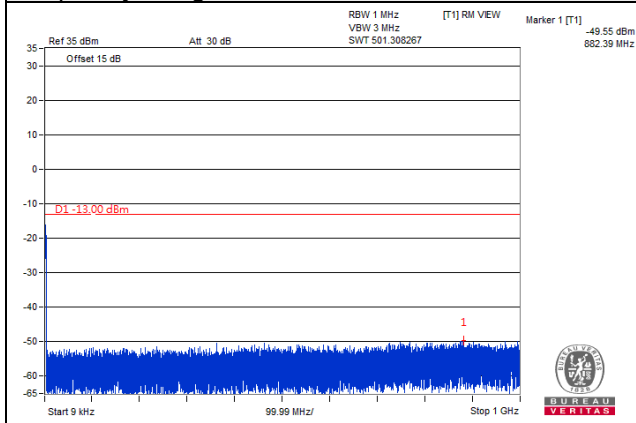


Frequency Range : 1GHz~18GHz

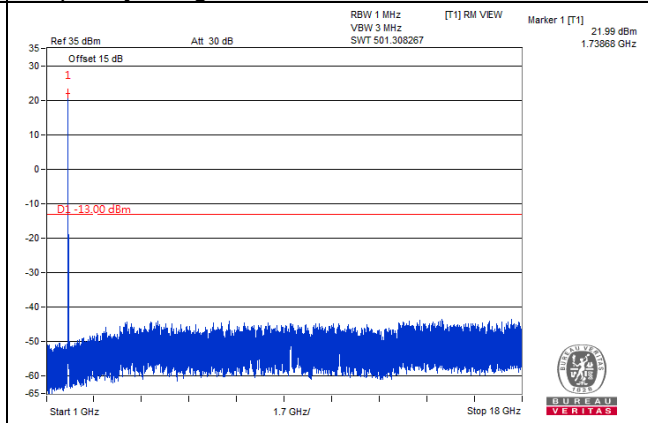


Channel 349000 (1745.0MHz)

Frequency Range : 9kHz~1GHz

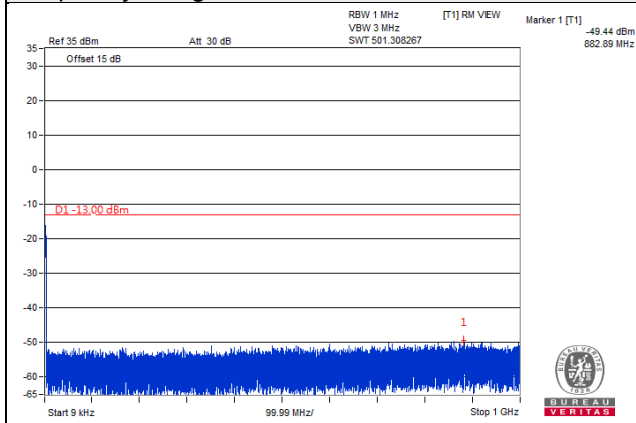


Frequency Range : 1GHz~18GHz

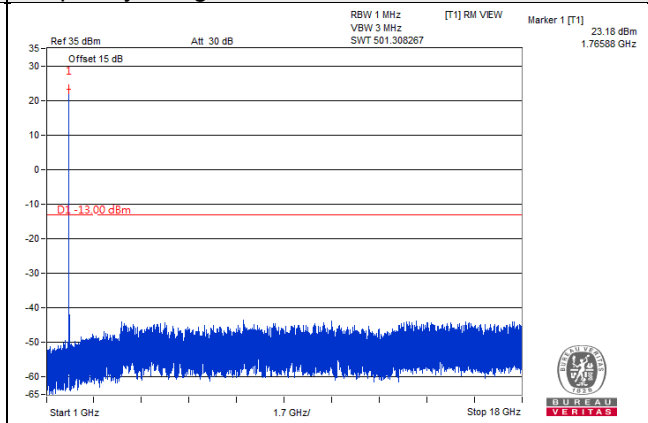


Channel 354500 (1772.5MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz

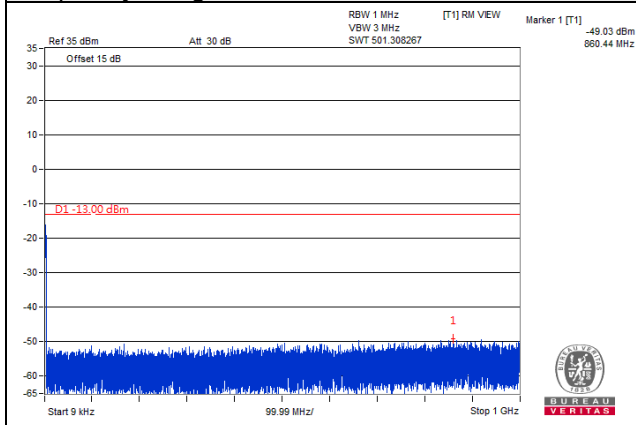


Note: For 9kHz, the signal is from spectrum analyzer.

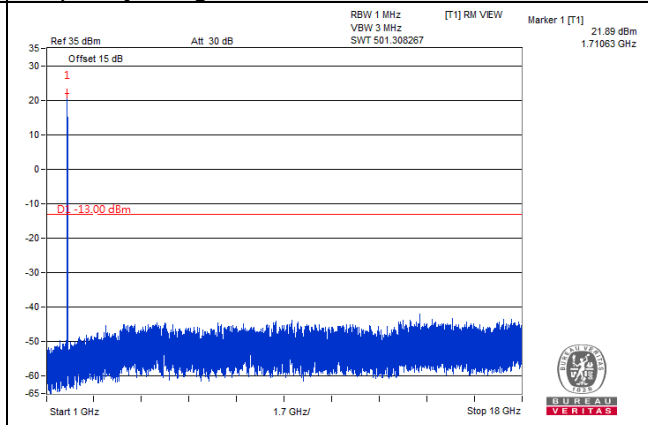
Channel Bandwidth: 20MHz

Channel 344000 (1720.0MHz)

Frequency Range : 9kHz~1GHz

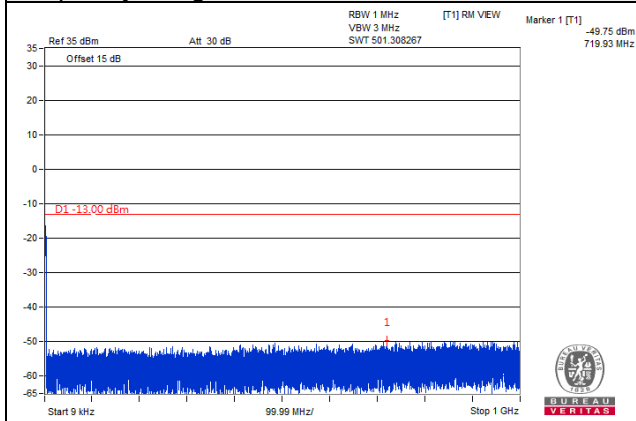


Frequency Range : 1GHz~18GHz

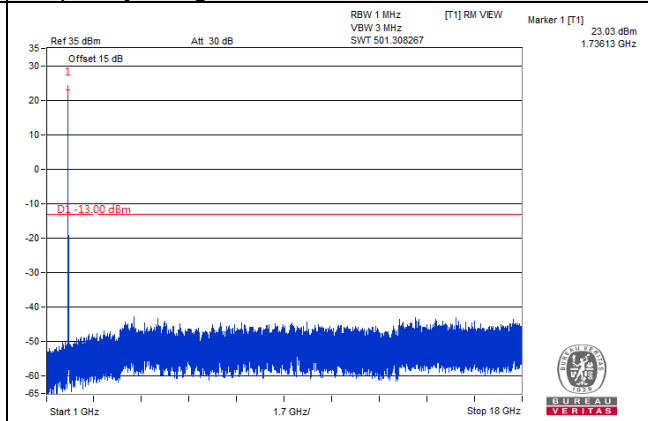


Channel 349000 (1745.0MHz)

Frequency Range : 9kHz~1GHz

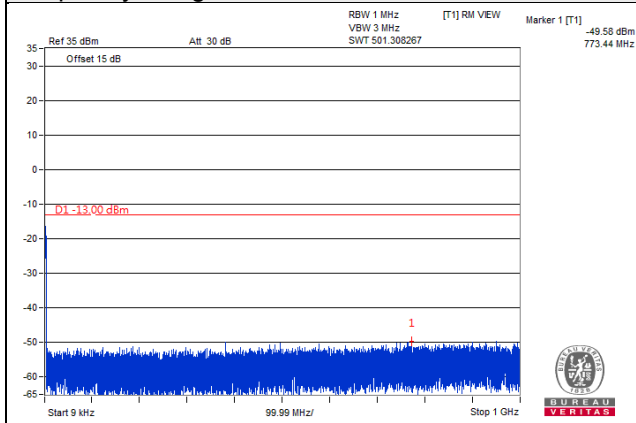


Frequency Range : 1GHz~18GHz

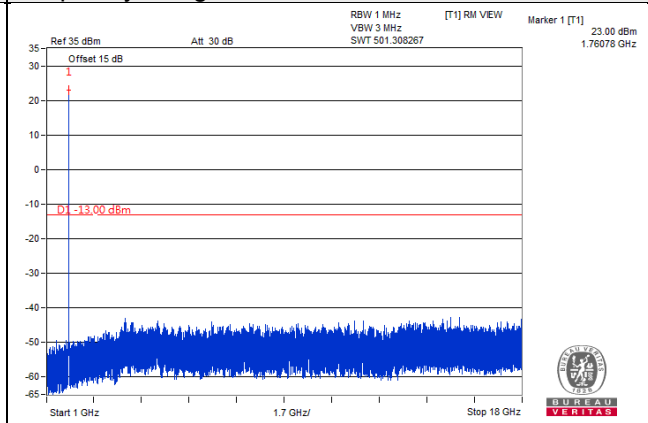


Channel 354000 (1770.0MHz)

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Note: For 9kHz, the signal is from spectrum analyzer.

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

For NR Band 66

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.8.2 Test Procedure

- a. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution antenna}$.

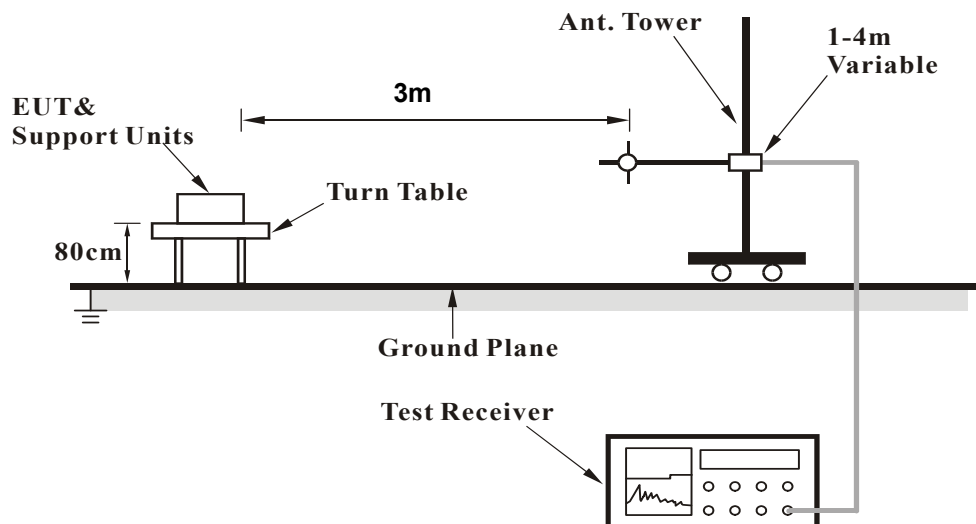
Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.8.3 Deviation from Test Standard

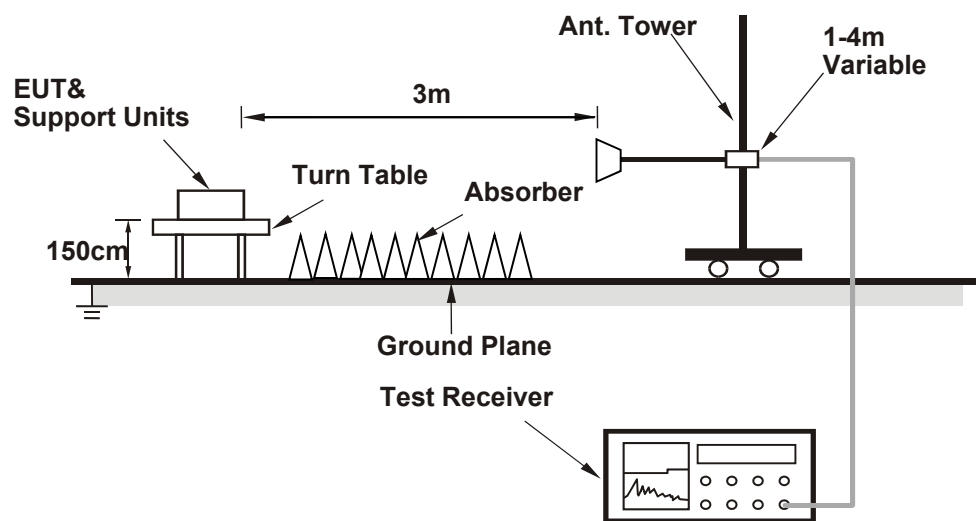
No deviation.

4.8.4 Test Setup

For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 Test Results

Below 1GHz

NR Band 66

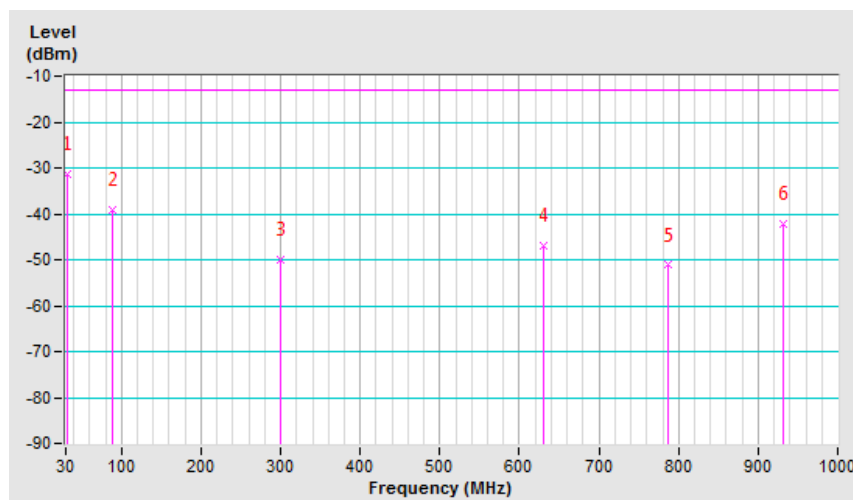
Channel Bandwidth: 5MHz

Mode	TX channel 342500 (1712.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Noah Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	31.94	-35.1	-19.6	-11.9	-31.5	-13.0	-18.5
2	88.20	-31.8	-39.8	0.6	-39.2	-13.0	-26.2
3	299.66	-46.6	-55.2	5.1	-50.1	-13.0	-37.1
4	629.46	-48.0	-51.5	4.6	-46.9	-13.0	-33.9
5	786.60	-56.5	-55.4	4.2	-51.2	-13.0	-38.2
6	932.10	-49.2	-46.0	3.9	-42.1	-13.0	-29.1

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

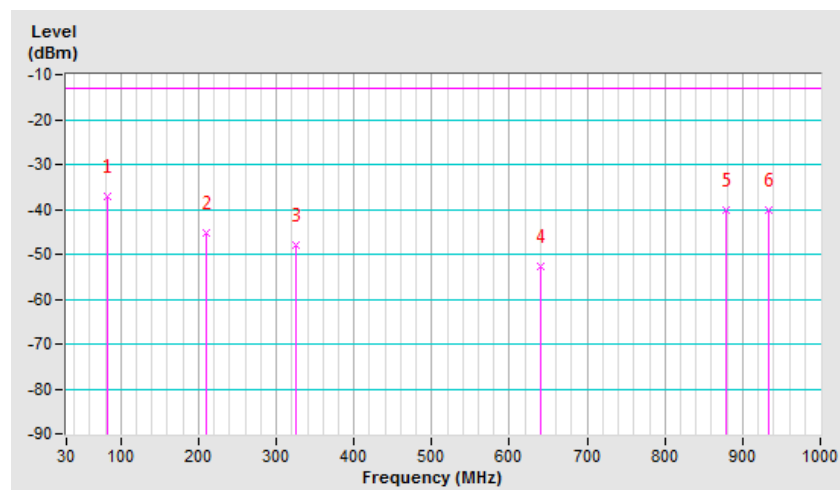


Mode	TX channel 342500 (1712.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Noah Chang		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-33.0	-36.0	-1.0	-37.0	-13.0	-24.0
2	210.42	-44.1	-50.8	5.4	-45.4	-13.0	-32.4
3	324.88	-46.8	-53.1	5.2	-47.9	-13.0	-34.9
4	641.10	-57.0	-57.3	4.7	-52.6	-13.0	-39.6
5	879.72	-46.7	-44.1	3.9	-40.2	-13.0	-27.2
6	934.04	-48.9	-44.1	3.9	-40.2	-13.0	-27.2

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



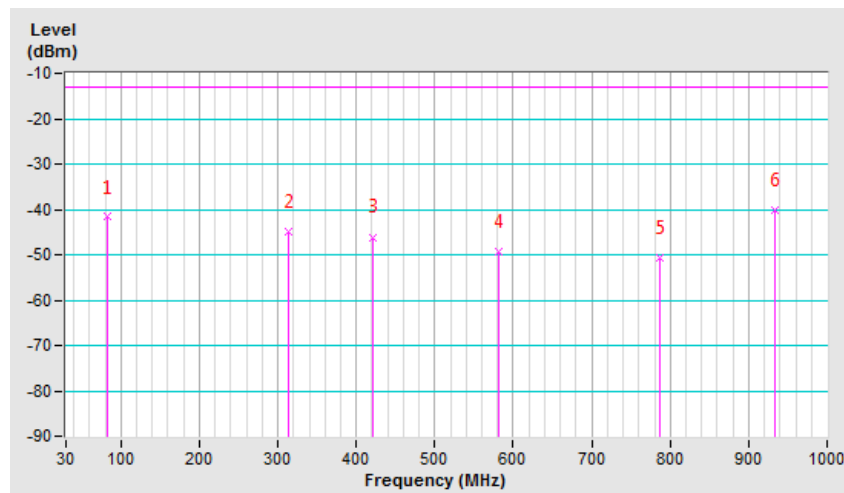
Channel Bandwidth: 10MHz

Mode	TX channel 343000 (1715.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Noah Chang		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.38	-35.2	-40.7	-1.0	-41.7	-13.0	-28.7
2	313.24	-40.4	-50.0	5.1	-44.9	-13.0	-31.9
3	421.88	-44.6	-51.3	5.2	-46.1	-13.0	-33.1
4	580.96	-49.3	-53.9	4.5	-49.4	-13.0	-36.4
5	786.60	-55.9	-54.8	4.2	-50.6	-13.0	-37.6
6	934.04	-47.4	-44.2	3.9	-40.3	-13.0	-27.3

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

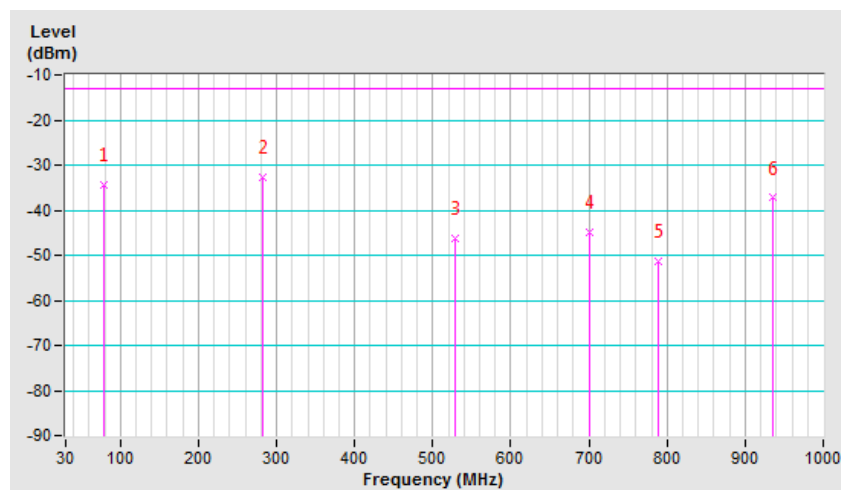


Mode	TX channel 343000 (1715.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Noah Chang		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	78.50	-30.5	-32.2	-2.2	-34.4	-13.0	-21.4
2	282.20	-34.0	-38.1	5.3	-32.8	-13.0	-19.8
3	528.58	-46.5	-50.9	4.7	-46.2	-13.0	-33.2
4	701.24	-49.7	-50.2	5.2	-45.0	-13.0	-32.0
5	788.54	-57.5	-55.3	4.1	-51.2	-13.0	-38.2
6	935.98	-46.0	-41.2	3.9	-37.3	-13.0	-24.3

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



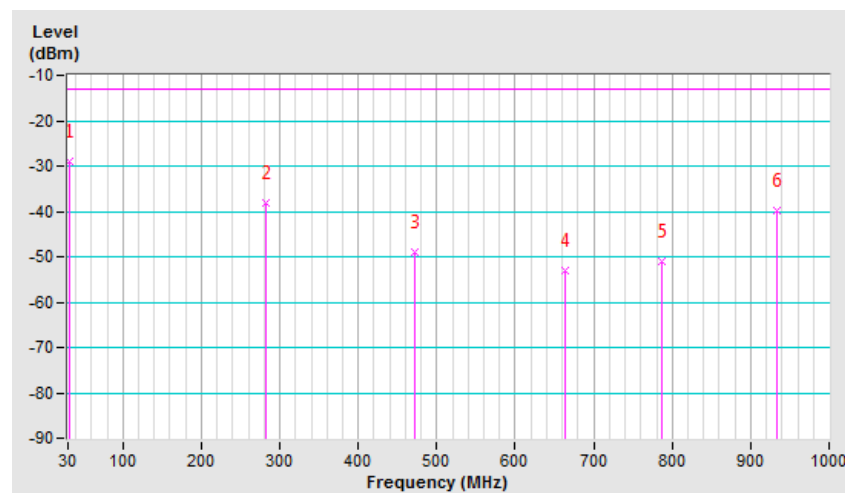
Channel Bandwidth: 20MHz

Mode	TX channel 344000 (1720.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	31.94	-32.6	-17.1	-11.9	-29.0	-13.0	-16.0
2	282.20	-34.0	-43.3	5.3	-38.0	-13.0	-25.0
3	472.32	-48.0	-54.1	5.0	-49.1	-13.0	-36.1
4	664.38	-54.6	-58.0	5.0	-53.0	-13.0	-40.0
5	786.60	-56.4	-55.3	4.2	-51.1	-13.0	-38.1
6	934.04	-47.0	-43.8	3.9	-39.9	-13.0	-26.9

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

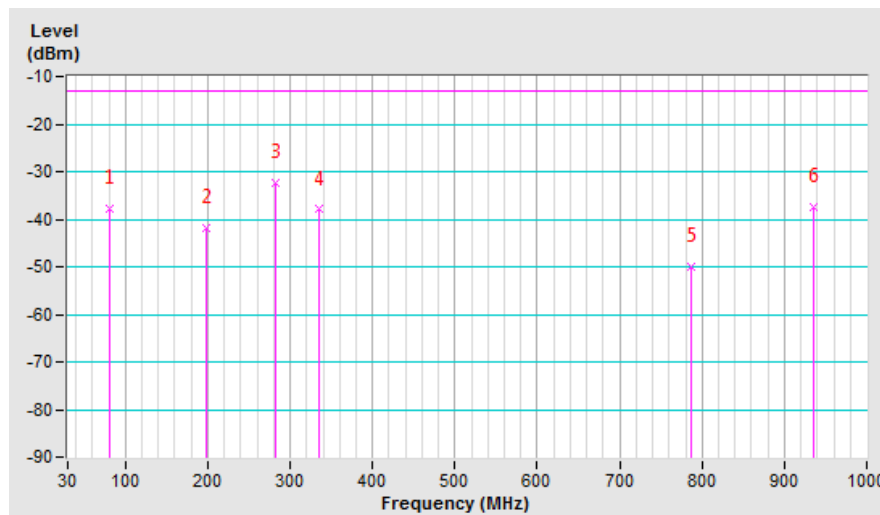


Mode	TX channel 344000 (1720.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	80.44	-34.3	-36.3	-1.6	-37.9	-13.0	-24.9
2	198.78	-38.8	-47.2	5.4	-41.8	-13.0	-28.8
3	282.20	-33.7	-37.8	5.3	-32.5	-13.0	-19.5
4	334.58	-37.1	-43.2	5.2	-38.0	-13.0	-25.0
5	786.60	-56.2	-54.2	4.2	-50.0	-13.0	-37.0
6	935.98	-46.2	-41.4	3.9	-37.5	-13.0	-24.5

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



Above 1GHz

NR Band 66

Channel Bandwidth: 5MHz

Mode	TX channel 342500 (1712.5MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3425.00	-64.1	-59.9	7.1	-52.8	-13.0	-39.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3425.00	-66.4	-59.9	7.1	-52.8	-13.0	-39.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 349000 (1745.0MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-64.3	-59.0	7.2	-51.8	-13.0	-38.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-66.7	-59.8	7.2	-52.6	-13.0	-39.6

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 355500 (1777.5MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3555.00	-64.2	-58.5	7.2	-51.3	-13.0	-38.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3555.00	-66.9	-60.1	7.2	-52.9	-13.0	-39.9

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 10MHz

Mode	TX channel 343000 (1715.0MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3430.00	-64.2	-59.9	7.1	-52.8	-13.0	-39.8
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3430.00	-66.5	-59.9	7.1	-52.8	-13.0	-39.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 349000 (1745.0MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-64.5	-59.2	7.2	-52.0	-13.0	-39.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-66.9	-60.0	7.2	-52.8	-13.0	-39.8

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 355000 (1775.0MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3550.00	-64.3	-58.6	7.2	-51.4	-13.0	-38.4
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3550.00	-67.0	-60.2	7.2	-53.0	-13.0	-40.0

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Channel Bandwidth: 20MHz

Mode	TX channel 344000 (1720.0MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3440.00	-64.1	-59.6	7.1	-52.5	-13.0	-39.5
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3440.00	-66.4	-59.8	7.1	-52.7	-13.0	-39.7

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 349000 (1745.0MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-64.5	-59.2	7.2	-52.0	-13.0	-39.0
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3490.00	-66.8	-59.9	7.2	-52.7	-13.0	-39.7

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX channel 354000 (1770.0MHz)	Frequency Range	1GHz~8GHz
Environmental Conditions	25deg. C, 70%RH	Input Power	120Vac, 60Hz
Tested By	Luis Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3540.00	-64.1	-58.5	7.2	-51.3	-13.0	-38.3
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3540.00	-66.9	-60.1	7.2	-52.9	-13.0	-39.9

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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