TEST REPORT

CERTIFICATE OF CONFORMITY

Standard:	**47 CFR FCC Part 27** **47 CFR FCC Part 2**
Report No.:	RFBEDV-WTW-P24080720-4
FCC ID:	VUI-F2892C
Product:	Nura4K
Brand:	PEGATRON
Model No.:	MC1521-Q60
Received Date:	2023/4/27
Test Date:	2023/5/30 ~ 2023/6/9
Issued Date:	2024/10/1
Applicant:	PEGATRON CORPORATION
Address:	5F, NO. 76, LIGONG ST., BEITOU DISTRICT, TAIPEI CITY 113, TAIWAN
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

Approved by: Jeremy Lin , **Date:** 2024/10/1

Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBEDV-WTW-P24080720-4	Original release.	2024/10/1

1 Certificate

Product:	Nura4K
Brand:	PEGATRON
Test Model:	MC1521-Q60
Sample Status:	Engineering sample
Applicant:	PEGATRON CORPORATION
Test Date:	2023/5/30 ~ 2023/6/9
Standard:	47 CFR FCC Part 27 47 CFR FCC Part 2
Measurement procedure:	ANSI/TIA/EIA-603-E 2016 ANSI C63.26-2015 KDB 971168 D01 Power Meas License Digital Systems v03r01 KDB 971168 D02 Misc Rev Approv License Devices v02r02 KDB 662911 D01 Multiple Transmitter Output v02r01

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.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
Part 2.1046 Part 27.50(k) Part 27.50(j)	Equivalent Isotropically Radiated Power	Pass	Meet the requirement of limit.
Part 2.1047	Modulation Characteristics	N/A	Refer to Note 1
Part 27.50(k)(4) Part 27.50(j)(4)	Peak to Average Ratio	N/A	Refer to Note 1
Part 2.1049	Bandwidth	N/A	Refer to Note 1
Part 2.1051 Part 27.53(n) Part 27.53(l)	Conducted Spurious Emissions	N/A	Refer to Note 1
Part 2.1053 Part 27.53(n) Part 27.53(l)	Radiated Spurious Emissions below 1GHz	Pass	Minimum passing margin is -32.44 dB at 53.28 MHz
Part 2.1053 Part 27.53(n) Part 27.53(l)	Radiated Spurious Emissions above 1GHz	Pass	Minimum passing margin is -27.70 dB at 7950.00 MHz
Part 2.1055 Part 27.54	Frequency Stability	N/A	Refer to Note 1

Note:

1. The only test item of Equivalent Isotropically Radiated Power and Radiated Spurious Emissions tests were performed for this report. Select the worst case scenario for each WWAN band for testing. Other testing data please refer to SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Report No.: SEWA2204000008RG02 (LTE Module, Brand: Quectel, Model: RM520N-GL, FCC ID: XMR2022RM520NGL).
2. 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:

Parameter	Specification	Uncertainty (±)
Maximum Output Power	-	1.371 dB
Radiated Spurious Emissions below 1GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Radiated Spurious Emissions above 1GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Nura4K
Brand	PEGATRON
Test Model	MC1521-Q60
Status of EUT	Engineering sample
Power Supply Rating	5 Vdc or 9 Vdc or 12 Vdc or 15 Vdc (from adapter)

Note:

1. EUT Overview

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3455.01 ~ 3544.98	QPSK	0.679	28.32
		16QAM	0.611	27.86
		64QAM	0.418	26.21
		256QAM	0.203	23.08
15 MHz	3457.5 ~ 3542.49	QPSK	0.675	28.29
		16QAM	0.612	27.87
		64QAM	0.418	26.21
		256QAM	0.201	23.04
20 MHz	3460.02 ~ 3540	QPSK	0.678	28.31
		16QAM	0.605	27.82
		64QAM	0.418	26.21
		256QAM	0.204	23.1
30 MHz	3465 ~ 3534.99	QPSK	0.678	28.31
		16QAM	0.604	27.81
		64QAM	0.419	26.22
		256QAM	0.201	23.04
40 MHz	3470.01 ~ 3529.98	QPSK	0.679	28.32
		16QAM	0.61	27.85
		64QAM	0.417	26.2
		256QAM	0.203	23.08
50 MHz	3475.02 ~ 3525	QPSK	0.678	28.31
		16QAM	0.604	27.81
		64QAM	0.416	26.19
		256QAM	0.202	23.06
60 MHz	3480 ~ 3519.99	QPSK	0.678	28.31
		16QAM	0.61	27.85
		64QAM	0.416	26.19
		256QAM	0.203	23.07

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
70 MHz	3485.01 ~ 3514.98	QPSK	0.679	28.32
		16QAM	0.605	27.82
		64QAM	0.419	26.22
		256QAM	0.201	23.04
80 MHz	3490.02 ~ 3510	QPSK	0.676	28.3
		16QAM	0.61	27.85
		64QAM	0.42	26.23
		256QAM	0.204	23.09
90 MHz	3495 ~ 3504.99	QPSK	0.681	28.33
		16QAM	0.611	27.86
		64QAM	0.416	26.19
		256QAM	0.203	23.07
100 MHz	3500.01	QPSK	0.679	28.32
		16QAM	0.608	27.84
		64QAM	0.417	26.2
		256QAM	0.2	23
10 MHz	3455.01 ~ 3544.98	BPSK	0.65	28.13
15 MHz	3457.5 ~ 3542.49	BPSK	0.65	28.13
20 MHz	3460.02 ~ 3540	BPSK	0.641	28.07
30 MHz	3465 ~ 3534.99	BPSK	0.65	28.13
40 MHz	3470.01 ~ 3529.98	BPSK	0.65	28.13
50 MHz	3475.02 ~ 3525	BPSK	0.647	28.11
60 MHz	3480 ~ 3519.99	BPSK	0.647	28.11
70 MHz	3485.01 ~ 3514.98	BPSK	0.647	28.11
80 MHz	3490.02 ~ 3510	BPSK	0.649	28.12
90 MHz	3495 ~ 3504.99	BPSK	0.647	28.11
100 MHz	3500.01	BPSK	0.653	28.15

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3705 ~ 3975	QPSK	0.658	28.18
		16QAM	0.583	27.66
		64QAM	0.409	26.12
		256QAM	0.198	22.96
15 MHz	3707.52 ~ 3972.48	QPSK	0.658	28.18
		16QAM	0.593	27.73
		64QAM	0.403	26.05
		256QAM	0.197	22.94
20 MHz	3710.01 ~ 3969.99	QPSK	0.656	28.17
		16QAM	0.594	27.74
		64QAM	0.402	26.04
		256QAM	0.196	22.92
30 MHz	3715.02 ~ 3964.98	QPSK	0.659	28.19
		16QAM	0.592	27.72
		64QAM	0.402	26.04
		256QAM	0.196	22.93
40 MHz	3720 ~ 3960	QPSK	0.659	28.19
		16QAM	0.593	27.73
		64QAM	0.403	26.05
		256QAM	0.197	22.94
50 MHz	3725.01 ~ 3954.99	QPSK	0.659	28.19
		16QAM	0.594	27.74
		64QAM	0.405	26.07
		256QAM	0.197	22.94
60 MHz	3730.02 ~ 3949.98	QPSK	0.658	28.18
		16QAM	0.589	27.7
		64QAM	0.407	26.1
		256QAM	0.197	22.94
70 MHz	3735 ~ 3945	QPSK	0.655	28.16
		16QAM	0.592	27.72
		64QAM	0.403	26.05
		256QAM	0.197	22.95
80 MHz	3740.01 ~ 3939.99	QPSK	0.659	28.19
		16QAM	0.59	27.71
		64QAM	0.405	26.07
		256QAM	0.197	22.94
90 MHz	3745.02 ~ 3934.98	QPSK	0.658	28.18
		16QAM	0.59	27.71
		64QAM	0.405	26.07
		256QAM	0.199	22.98
100 MHz	3750 ~ 3930	QPSK	0.656	28.17
		16QAM	0.59	27.71
		64QAM	0.406	26.09
		256QAM	0.196	22.93

Bandwidth	TX Frequency Range (MHz)	Modulation	Max. EIRP (W)	Max. EIRP (dBm)
10 MHz	3705 ~ 3975	BPSK	0.537	27.3
15 MHz	3707.52 ~ 3972.48	BPSK	0.537	27.3
20 MHz	3710.01 ~ 3969.99	BPSK	0.53	27.24
30 MHz	3715.02 ~ 3964.98	BPSK	0.535	27.28
40 MHz	3720 ~ 3960	BPSK	0.536	27.29
50 MHz	3725.01 ~ 3954.99	BPSK	0.536	27.29
60 MHz	3730.02 ~ 3949.98	BPSK	0.536	27.29
70 MHz	3735 ~ 3945	BPSK	0.533	27.27
80 MHz	3740.01 ~ 3939.99	BPSK	0.537	27.3
90 MHz	3745.02 ~ 3934.98	BPSK	0.537	27.3
100 MHz	3750 ~ 3930	BPSK	0.543	27.35

2. The EUT is authorized for use in specific End-product. Please refer to below for more details.

Brand	Brand	Model	FCC ID
Nura4K	PEGATRON	MC1521-Q60	VUI-F2660C

3. The specific module configuration tested within this report will be locked at factory for use within grantee's own host product.
4. The EUT uses following accessories.

AC Adapter		
Brand	Model	Specification
DELTA	ADH-36DW B	AC Input: 100-240 V, 0.8 A, 50-60 Hz DC Output: 5.0 Vdc, 3.0A / 9.0Vdc, 3.0A / 12.0Vdc, 3.0A /15Vdc, 2.4A, 36.0W DC Output Cable: USB Type C 1.8m

5. The power settings were modified lower specifically for this host.
6. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. Type		PIFA	
Connector		ipex(MHF)	
5G FR1 Band			
Band	Freq. Range (MHz)	Gain (dBi)	
		Ant. 0	Ant. 2
n48	3550 ~ 3700	2.96	3.96
n77	3450 ~ 3550	1.98	3.96
n77	3700 ~ 3980	3.13	2.66

*SISO mode is fixed to transmit in Ant. 2.
*Antennas are for use with n48/n77 bands only in the host device FCC ID: VUI-F2660C.
*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.3 Test Mode Applicability and Tested Channel Detail

3.3.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	1Tx, 2Tx	630334(3455.01 MHz) 633334(3500.01 MHz) 636332(3544.98 MHz)	10 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		630500(3457.50 MHz) 633334(3500.01 MHz) 636166(3542.49 MHz)	15 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		630668(3460.02 MHz) 633334(3500.01 MHz) 636000(3540.00 MHz)	20 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		631000(3465.00 MHz) 633334(3500.01 MHz) 635666(3534.99 MHz)	30 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		631334(3470.01 MHz) 633334(3500.01 MHz) 635332(3529.98 MHz)	40 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		631668(3475.02 MHz) 633334(3500.01 MHz) 635000(3525.00 MHz)	50 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		632000(3480.00 MHz) 633334(3500.01 MHz) 634666(3519.99 MHz)	60 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		632334(3485.01 MHz) 633334(3500.01 MHz) 634332(3514.98 MHz)	70 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		632668(3490.02 MHz) 633334(3500.01 MHz) 634000(3510.00 MHz)	80 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		633000(3495.00 MHz) 633334(3500.01 MHz) 633666(3504.99 MHz)	90 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		633334(3500.01 MHz)	100 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	2TX	636332(3544.98 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	2Tx	630334(3455.01 MHz) 633334(3500.01 MHz) 636332(3544.98 MHz)	10 MHz	QPSK	1 RB
		631668(3475.02 MHz) 633334(3500.01 MHz) 635000(3525.00 MHz)	50 MHz	QPSK	1 RB
		633334(3500.01 MHz)	100 MHz	QPSK	1 RB

3.3.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

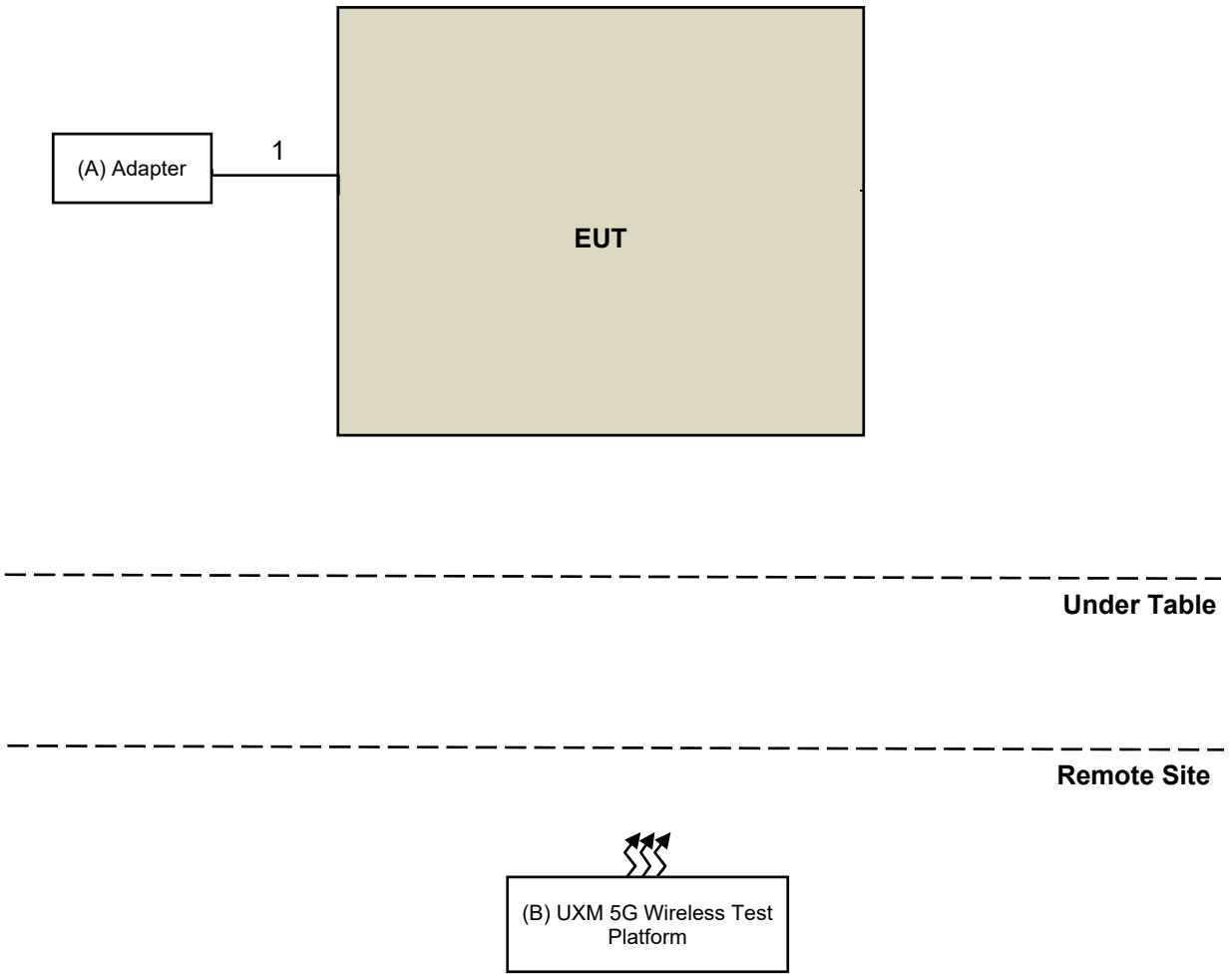
Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Equivalent Isotropically Radiated Power	1Tx, 2Tx	647000(3705.00 MHz) 656000(3840.00 MHz) 665000(3975.00 MHz)	10 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		647168(3707.52 MHz) 656000(3840.00 MHz) 664832(3972.48 MHz)	15 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		647334(3710.01 MHz) 656000(3840.00 MHz) 664666(3969.99 MHz)	20 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		647668(3715.02 MHz) 656000(3840.00 MHz) 664332(3964.98 MHz)	30 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		648000(3720.00 MHz) 656000(3840.00 MHz) 664000(3960.00 MHz)	40 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		648334(3725.01 MHz) 656000(3840.00 MHz) 663666(3954.99 MHz)	50 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		648668(3730.02 MHz) 656000(3840.00 MHz) 663332(3949.98 MHz)	60 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		649000(3735.00 MHz) 656000(3840.00 MHz) 663000(3945.00 MHz)	70 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		649334(3740.01 MHz) 656000(3840.00 MHz) 662666(3939.99 MHz)	80 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		649668(3745.02 MHz) 656000(3840.00 MHz) 662332(3934.98 MHz)	90 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB
		650000(3750.00 MHz) 656000(3840.00 MHz) 662000(3930.00 MHz)	100 MHz	π/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM	1 RB Half RB Full RB

Test Item	EUT Configure Mode	Tested Channel	Channel Bandwidth	Modulation	Mode
Radiated Spurious Emissions below 1GHz	2TX	665000(3975.00 MHz)	10 MHz	QPSK	1 RB
Radiated Spurious Emissions above 1GHz	2Tx	647000(3705.00 MHz) 656000(3840.00 MHz) 665000(3975.00 MHz)	10 MHz	QPSK	1 RB
		648334(3725.01 MHz) 656000(3840.00 MHz) 663666(3954.99 MHz)	50 MHz	QPSK	1 RB
		650000(3750.00 MHz) 656000(3840.00 MHz) 662000(3930.00 MHz)	100 MHz	QPSK	1 RB

3.4 Test Program Used and Operation Descriptions

There is no need to controlling software during the test, and the EUT can be paired with the Radio Communication Analyzer to test the connection when it is powered on.

3.5 Connection Diagram of EUT and Peripheral Devices



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Delta	ADH-36DW B	N/A	N/A	Accessory of EUT
B	UXM 5G Wireless Test Platform	Keysight	E7515B	MY60102115	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	N	0	Accessory of EUT

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030B	MY57140488	2023/3/6	2024/3/5
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
UXM 5G Wireless Test Platform Keysight	E7515B	MY60102115	2023/5/25	2024/5/24

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/6/9

4.2 Radiated Spurious Emissions below 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2022/10/21	2023/10/20
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Loop Antenna Electro-Metrics	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 330H	980112	2022/10/1	2023/9/30
	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2022/10/1	2023/9/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/6/5

4.3 Radiated Spurious Emissions above 1GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2022/11/13	2023/11/12
	BBHA 9170	148	2022/11/13	2023/11/12
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 012645	980115	2022/10/1	2023/9/30
	EMC 184045	980116	2022/10/1	2023/9/30
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
	EMC104-SM-SM-8000+3000	171005	2022/10/1	2023/9/30
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	2022/10/1	2023/9/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/5/30

5 Limits of Test Items

5.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

For NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz):

Mobile and portable stations are limited to 1 Watt EIRP.

For NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz):

Mobile devices are limited to 1Watt (30 dBm) EIRP.

5.2 Radiated Spurious Emissions below 1GHz

For NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz):

According to FCC 47 CFR part 27.53(l), for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

For NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz):

According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

5.3 Radiated Spurious Emissions above 1GHz

For NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz):

According to FCC 47 CFR part 27.53(l), for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

For NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz):

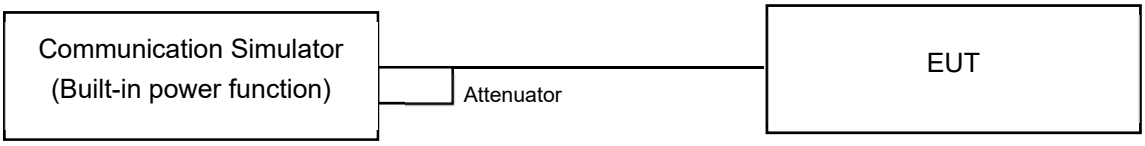
According to FCC 47 CFR part 27.53(n), for operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

6 Test Arrangements

6.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

6.1.1 Test Setup

Conducted Power Measurement:



6.1.2 Test Procedure

Conducted Power Measurement:

The EUT is configured by emulator to set data modulation and maximum power using WWAN technology. The average (rms) power measurement was performed on emulator and power value was measured from power function on emulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$EIRP = P_{Meas} + G_T$

$ERP = P_{Meas} + G_T - 2.15$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas}, e.g., dBm or dBW)

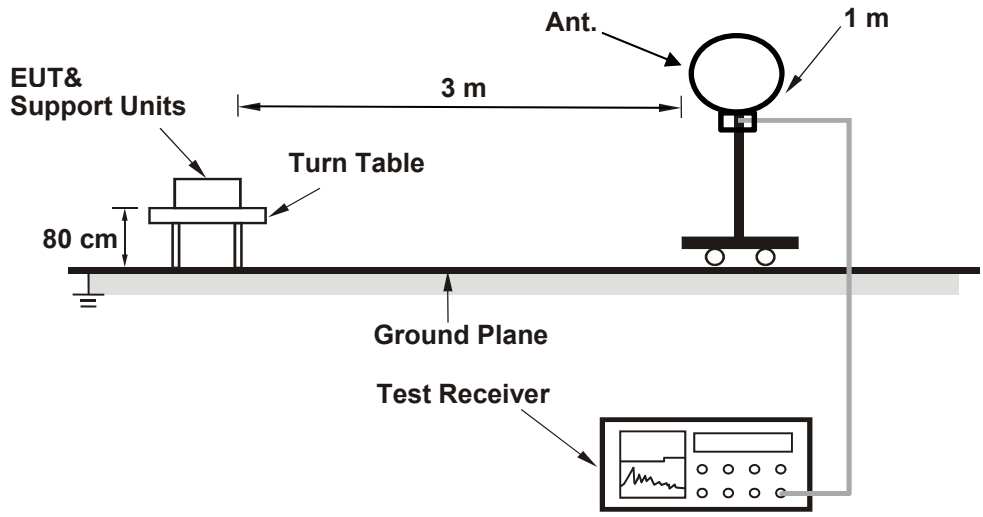
P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

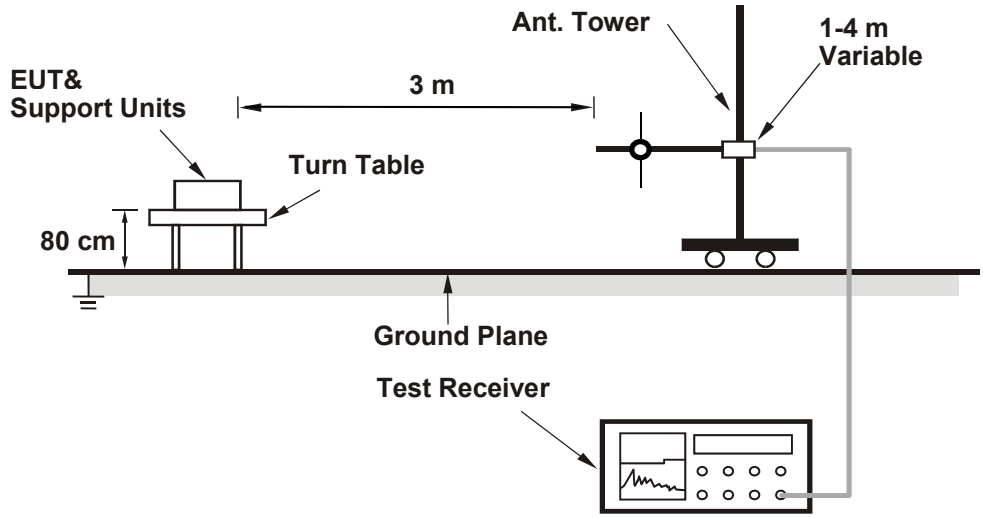
6.2 Radiated Spurious Emissions below 1GHz

6.2.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.2.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following ANSI C63.26 section 5.5 and 5.2.7

e. EIRP (dBm) = E (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBμV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

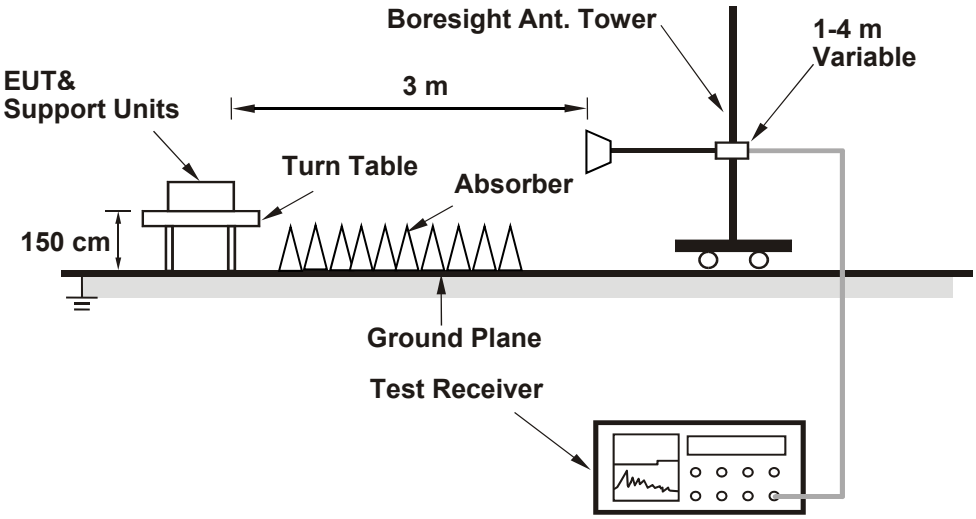
Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz. Set detector = average.
2. The amplitude of spurious emissions in the range 9 kHz to 30 MHz which are attenuated more than 20 dB below the permissible value need not be reported.

6.3 Radiated Spurious Emissions above 1GHz

6.3.1 Test Setup

For radiated emission above 1 GHz



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

6.3.2 Test Procedure

The EUT is configured to set data modulation and maximum power using WWAN technology.

a. In the semi-anechoic chamber, EUT placed on the 1.5 m 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 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.

d. Following ANSI C63.26 section 5.5 and 5.2.7

e. EIRP (dBm) = E (dBµV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.

f. ERP (dBm) = E (dBµV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

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

7 Test Results of Test Item

7.1 Effective Radiated Power and Equivalent Isotropically Radiated Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	22°C, 68% RH	Tested By:	James Yang

7.1.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 10 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 10M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 630334			CH 633334			CH 636332		
			3455.01 MHz			3500.01 MHz			3544.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.19	19.19	22.20	19.27	19.26	22.28	19.17	19.15	22.17
	1	11	19.20	19.18	22.20	19.20	19.28	22.25	19.18	19.18	22.19
	1	22	19.23	19.19	22.22	19.24	19.19	22.23	19.28	19.25	22.28
	12	0	18.99	18.85	21.93	18.95	18.93	21.95	18.89	18.92	21.92
	12	6	18.92	18.92	21.93	18.97	18.98	21.99	18.87	18.86	21.88
	12	12	18.96	18.88	21.93	18.95	18.86	21.92	18.96	18.98	21.98
	24	0	17.86	17.81	20.85	17.82	17.82	20.83	17.86	17.88	20.88
16QAM	1	1	18.69	18.76	21.74	18.79	18.83	21.82	18.75	18.77	21.77
64QAM	1	1	17.08	17.14	20.12	17.09	17.05	20.08	17.16	17.15	20.17
256QAM	1	1	13.99	14.04	17.03	14.03	13.97	17.01	14.06	14.00	17.04

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.83	22.28	26.87	28.32	30
16QAM	21.74	21.82	27.78	27.86	30
64QAM	20.08	20.17	26.12	26.21	30
256QAM	17.01	17.04	23.05	23.08	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 15 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 15M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 630500			CH 633334			CH 636166		
			3457.5 MHz			3500.01 MHz			3542.49 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.21	19.21	22.22	19.26	19.20	22.24	19.22	19.26	22.25
	1	19	19.24	19.19	22.23	19.22	19.24	22.24	19.24	19.19	22.23
	1	36	19.28	19.17	22.24	19.14	19.19	22.18	19.18	19.26	22.23
	18	0	18.96	18.96	21.97	18.86	18.88	21.88	18.89	18.85	21.88
	18	10	18.99	18.88	21.95	18.98	18.93	21.97	19.00	18.90	21.96
	18	20	19.00	18.95	21.99	18.87	18.89	21.89	18.93	18.86	21.91
	36	0	17.84	17.90	20.88	17.82	17.86	20.85	17.90	17.91	20.92
16QAM	1	1	18.77	18.79	21.79	18.82	18.81	21.83	18.70	18.80	21.76
64QAM	1	1	17.06	17.20	20.14	17.13	17.18	20.17	17.12	17.14	20.14
256QAM	1	1	13.94	14.04	17.00	13.92	13.93	16.94	13.91	14.06	17.00

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.85	22.25	26.89	28.29	30
16QAM	21.76	21.83	27.8	27.87	30
64QAM	20.14	20.17	26.18	26.21	30
256QAM	16.94	17	22.98	23.04	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 20 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 20M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 630668			CH 633334			CH 636000		
			3460.02 MHz			3500.01 MHz			3540 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.18	19.21	22.21	19.25	19.19	22.23	19.18	19.26	22.23
	1	26	19.22	19.25	22.25	19.21	19.15	22.19	19.23	19.22	22.24
	1	49	19.26	19.25	22.27	19.19	19.18	22.20	19.17	19.25	22.22
	25	0	18.88	18.95	21.93	18.94	18.90	21.93	18.85	18.85	21.86
	25	13	18.99	18.86	21.94	18.94	18.92	21.94	18.89	18.90	21.91
	25	26	19.00	18.94	21.98	18.95	18.99	21.98	18.89	18.95	21.93
	50	0	17.83	17.88	20.87	17.85	17.82	20.85	17.84	17.83	20.85
16QAM	1	1	18.69	18.84	21.78	18.80	18.70	21.76	18.75	18.74	21.76
64QAM	1	1	17.19	17.13	20.17	17.15	17.17	20.17	17.15	17.15	20.16
256QAM	1	1	14.05	13.91	16.99	14.04	14.06	17.06	14.02	14.00	17.02

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.85	22.27	26.89	28.31	30
16QAM	21.76	21.78	27.8	27.82	30
64QAM	20.16	20.17	26.2	26.21	30
256QAM	16.99	17.06	23.03	23.1	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 30 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 30M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 631000			CH 633334			CH 635666		
			3465 MHz			3500.01 MHz			3534.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.14	19.27	22.22	19.15	19.26	22.22	19.14	19.23	22.20
	1	39	19.20	19.14	22.18	19.14	19.13	22.15	19.26	19.26	22.27
	1	76	19.25	19.15	22.21	19.21	19.20	22.22	19.19	19.28	22.25
	36	0	18.88	18.85	21.88	18.93	18.91	21.93	18.88	18.96	21.93
	36	21	18.92	18.97	21.96	18.95	18.87	21.92	18.90	18.90	21.91
	36	42	18.91	18.96	21.95	18.87	18.89	21.89	18.91	18.96	21.95
	75	0	17.84	17.85	20.86	17.78	17.77	20.79	17.88	17.86	20.88
16QAM	1	1	18.69	18.73	21.72	18.71	18.76	21.75	18.80	18.71	21.77
64QAM	1	1	17.09	17.05	20.08	17.14	17.20	20.18	17.16	17.15	20.17
256QAM	1	1	13.93	14.05	17.00	13.93	14.05	17.00	13.94	13.99	16.98

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.79	22.27	26.83	28.31	30
16QAM	21.72	21.77	27.76	27.81	30
64QAM	20.08	20.18	26.12	26.22	30
256QAM	16.98	17	23.02	23.04	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 40 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 40M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 631334			CH 633334			CH 635332		
			3470.01 MHz			3500.01 MHz			3529.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.25	19.18	22.23	19.18	19.27	22.24	19.24	19.24	22.25
	1	53	19.22	19.22	22.23	19.19	19.22	22.22	19.22	19.16	22.20
	1	104	19.22	19.25	22.25	19.13	19.13	22.14	19.26	19.28	22.28
	50	0	18.93	18.93	21.94	18.93	18.91	21.93	18.87	18.85	21.87
	50	28	18.98	18.95	21.98	18.88	18.95	21.93	18.95	18.95	21.96
	50	56	18.93	18.97	21.96	18.85	18.87	21.87	18.92	18.85	21.90
	100	0	17.77	17.81	20.80	17.84	17.88	20.87	17.90	17.79	20.86
16QAM	1	1	18.78	18.80	21.80	18.78	18.77	21.79	18.79	18.81	21.81
64QAM	1	1	17.19	17.11	20.16	17.06	17.17	20.13	17.08	17.11	20.11
256QAM	1	1	13.98	13.94	16.97	14.03	14.02	17.04	14.00	13.93	16.98

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.8	22.28	26.84	28.32	30
16QAM	21.79	21.81	27.83	27.85	30
64QAM	20.11	20.16	26.15	26.2	30
256QAM	16.97	17.04	23.01	23.08	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 50 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 50M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 631668			CH 633334			CH 635000		
			3475.02 MHz			3500.01 MHz			3525 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.15	19.24	22.21	19.13	19.22	22.19	19.15	19.25	22.21
	1	67	19.26	19.25	22.27	19.24	19.19	22.23	19.17	19.23	22.21
	1	131	19.20	19.25	22.24	19.15	19.20	22.19	19.27	19.24	22.27
	64	0	18.90	18.91	21.92	18.96	18.86	21.92	18.86	18.99	21.94
	64	35	18.92	18.88	21.91	18.91	18.94	21.94	18.96	18.98	21.98
	64	69	19.00	18.88	21.95	18.95	18.88	21.93	18.97	18.93	21.96
	128	0	17.91	17.86	20.90	17.85	17.90	20.89	17.78	17.89	20.85
16QAM	1	1	18.81	18.69	21.76	18.80	18.71	21.77	18.73	18.78	21.77
64QAM	1	1	17.11	17.10	20.12	17.10	17.11	20.12	17.10	17.18	20.15
256QAM	1	1	14.03	13.98	17.02	13.99	13.96	16.99	13.94	13.94	16.95

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.85	22.27	26.89	28.31	30
16QAM	21.76	21.77	27.8	27.81	30
64QAM	20.12	20.15	26.16	26.19	30
256QAM	16.95	17.02	22.99	23.06	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 60 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 60M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 632000			CH 633334			CH 634666		
			3480 MHz			3500.01 MHz			3519.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.18	19.19	22.20	19.24	19.23	22.25	19.18	19.19	22.20
	1	81	19.24	19.19	22.23	19.28	19.24	22.27	19.21	19.16	22.20
	1	160	19.16	19.18	22.18	19.21	19.14	22.19	19.25	19.25	22.26
	81	0	18.97	18.89	21.94	18.86	18.94	21.91	19.00	18.93	21.98
	81	41	18.99	18.95	21.98	18.93	18.90	21.93	18.88	18.88	21.89
	81	81	18.93	18.94	21.95	18.96	18.90	21.94	18.90	18.89	21.91
	162	0	17.82	17.82	20.83	17.85	17.85	20.86	17.83	17.81	20.83
16QAM	1	1	18.77	18.69	21.74	18.83	18.76	21.81	18.73	18.74	21.75
64QAM	1	1	17.14	17.12	20.14	17.09	17.19	20.15	17.15	17.06	20.12
256QAM	1	1	13.93	13.95	16.95	14.06	13.97	17.03	13.95	13.92	16.95

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.83	22.27	26.87	28.31	30
16QAM	21.74	21.81	27.78	27.85	30
64QAM	20.12	20.15	26.16	26.19	30
256QAM	16.95	17.03	22.99	23.07	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 70 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 70M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 632334			CH 633334			CH 634332		
			3485.01 MHz			3500.01 MHz			3514.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.19	19.21	22.21	19.26	19.21	22.25	19.25	19.28	22.28
	1	95	19.28	19.22	22.26	19.27	19.25	22.27	19.23	19.28	22.27
	1	187	19.16	19.20	22.19	19.26	19.15	22.22	19.23	19.15	22.20
	90	0	18.96	19.00	21.99	18.97	18.85	21.92	18.93	18.93	21.94
	90	50	18.95	18.87	21.92	18.93	18.90	21.93	18.85	18.96	21.92
	90	99	19.00	18.98	22.00	18.92	18.91	21.93	18.96	19.00	21.99
	180	0	17.80	17.83	20.83	17.84	17.85	20.86	17.77	17.76	20.78
16QAM	1	1	18.70	18.69	21.71	18.69	18.84	21.78	18.69	18.79	21.75
64QAM	1	1	17.13	17.20	20.18	17.07	17.08	20.09	17.05	17.16	20.12
256QAM	1	1	13.99	13.93	16.97	14.01	13.91	16.97	13.92	14.06	17.00

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.78	22.28	26.82	28.32	30
16QAM	21.71	21.78	27.75	27.82	30
64QAM	20.09	20.18	26.13	26.22	30
256QAM	16.97	17	23.01	23.04	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 80 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 80M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 632668			CH 633334			CH 634000		
			3490.02 MHz			3500.01 MHz			3510 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.14	19.20	22.18	19.22	19.14	22.19	19.16	19.27	22.23
	1	109	19.27	19.22	22.26	19.21	19.16	22.20	19.19	19.28	22.25
	1	215	19.16	19.27	22.23	19.20	19.14	22.18	19.22	19.23	22.24
	108	0	19.00	18.90	21.96	18.87	18.87	21.88	18.97	18.94	21.97
	108	55	18.93	18.93	21.94	18.94	19.00	21.98	18.85	18.90	21.89
	108	109	18.91	19.00	21.97	18.96	18.85	21.92	18.87	18.91	21.90
	216	0	17.85	17.78	20.83	17.76	17.86	20.82	17.86	17.81	20.85
16QAM	1	1	18.83	18.73	21.79	18.77	18.83	21.81	18.75	18.72	21.75
64QAM	1	1	17.12	17.10	20.12	17.10	17.06	20.09	17.18	17.18	20.19
256QAM	1	1	13.91	13.91	16.92	14.03	14.04	17.05	14.02	13.99	17.02

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.82	22.26	26.86	28.3	30
16QAM	21.75	21.81	27.79	27.85	30
64QAM	20.09	20.19	26.13	26.23	30
256QAM	16.92	17.05	22.96	23.09	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 90 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 90M										
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 633000			CH 633334			CH 633666		
			3495 MHz			3500.01 MHz			3504.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.14	19.18	22.17	19.26	19.26	22.27	19.21	19.27	22.25
	1	123	19.23	19.20	22.23	19.14	19.28	22.22	19.28	19.26	22.28
	1	243	19.13	19.19	22.17	19.27	19.27	22.28	19.27	19.28	22.29
	120	0	18.95	18.85	21.91	18.85	18.93	21.90	18.94	18.99	21.98
	120	63	18.88	18.99	21.95	18.87	18.99	21.94	18.92	18.85	21.90
	120	125	18.93	18.87	21.91	18.94	18.97	21.97	18.91	18.96	21.95
	243	0	17.78	17.90	20.85	17.78	17.91	20.86	17.91	17.84	20.89
16QAM	1	1	18.76	18.73	21.76	18.79	18.83	21.82	18.83	18.70	21.78
64QAM	1	1	17.07	17.18	20.14	17.19	17.09	20.15	17.16	17.06	20.12
256QAM	1	1	14.01	13.92	16.98	13.96	13.99	16.99	13.99	14.04	17.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.85	22.29	26.89	28.33	30
16QAM	21.76	21.82	27.8	27.86	30
64QAM	20.12	20.15	26.16	26.19	30
256QAM	16.98	17.03	23.02	23.07	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - MIMO, Channel Bandwidth: 100 MHz

NR n78 SCS 30 kHz (3450-3550MHz) 100M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 633334		
			3500.01 MHz		
			TX 1	TX 2	Total
QPSK	1	1	19.19	19.23	22.22
	1	137	19.25	19.24	22.26
	1	271	19.28	19.25	22.28
	135	0	18.98	18.99	22.00
	135	69	18.99	18.89	21.95
	135	138	18.98	18.96	21.98
	270	0	17.79	17.85	20.83
16QAM	1	1	18.74	18.84	21.80
64QAM	1	1	17.09	17.20	20.16
256QAM	1	1	13.95	13.94	16.96

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.83	22.28	26.87	28.32	30
16QAM	21.8	21.8	27.84	27.84	30
64QAM	20.16	20.16	26.2	26.2	30
256QAM	16.96	16.96	23	23	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 10 MHz

NR n77 SCS 30 kHz 10M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 630334	CH 633334	CH 636332
			3455.01 MHz	3500.01 MHz	3544.98 MHz
BPSK	1	1	24.12	24.04	24.06
	1	11	24.10	24.16	24.12
	1	22	24.17	24.12	24.10
	12	0	23.93	23.92	23.92
	12	6	23.96	23.88	23.88
	12	12	23.94	23.97	23.92
	24	0	23.31	23.33	23.36
QPSK	1	1	23.81	23.93	23.86
	1	11	23.94	23.83	23.87
	1	22	23.81	23.80	23.95
	12	0	23.85	23.86	23.76
	12	6	23.85	23.84	23.81
	12	12	23.77	23.82	23.86
	24	0	22.84	22.84	22.94
16QAM	1	1	21.84	21.87	21.84
64QAM	1	1	20.27	20.28	20.27
256QAM	1	1	17.26	17.13	17.16

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.31	24.17	27.27	28.13	30
QPSK	22.84	23.95	26.8	27.91	30
16QAM	21.84	21.87	25.8	25.83	30
64QAM	20.27	20.28	24.23	24.24	30
256QAM	17.13	17.26	21.09	21.22	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 15 MHz

NR n77 SCS 30 kHz 15M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 630500	CH 633334	CH 636166
			3457.5 MHz	3500.01 MHz	3542.49 MHz
BPSK	1	1	24.16	24.03	24.08
	1	19	24.07	24.06	24.13
	1	36	24.12	24.02	24.17
	18	0	23.94	23.95	23.95
	18	10	23.99	23.86	23.92
	18	20	23.95	23.90	23.99
	36	0	23.35	23.38	23.29
QPSK	1	1	23.87	23.81	23.95
	1	19	23.87	23.80	23.94
	1	36	23.87	23.91	23.95
	18	0	23.83	23.87	23.78
	18	10	23.90	23.89	23.78
	18	20	23.78	23.78	23.79
	36	0	22.88	22.95	22.90
16QAM	1	1	21.78	21.77	21.74
64QAM	1	1	20.40	20.33	20.32
256QAM	1	1	17.22	17.21	17.16

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.29	24.17	27.25	28.13	30
QPSK	22.88	23.95	26.84	27.91	30
16QAM	21.74	21.78	25.7	25.74	30
64QAM	20.32	20.4	24.28	24.36	30
256QAM	17.16	17.22	21.12	21.18	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 20 MHz

NR n77 SCS 30 kHz 20M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 630668	CH 633334	CH 636000
			3460.02 MHz	3500.01 MHz	3540 MHz
BPSK	1	1	24.02	24.02	24.03
	1	26	24.03	24.11	24.09
	1	49	24.03	24.06	24.10
	25	0	23.85	23.92	23.86
	25	13	23.94	23.96	23.85
	25	26	23.92	23.98	23.93
	50	0	23.34	23.43	23.40
QPSK	1	1	23.84	23.87	23.84
	1	26	23.92	23.84	23.91
	1	49	23.87	23.80	23.95
	25	0	23.88	23.84	23.87
	25	13	23.84	23.85	23.89
	25	26	23.76	23.86	23.79
	50	0	22.92	22.94	22.92
16QAM	1	1	21.83	21.80	21.78
64QAM	1	1	20.33	20.34	20.32
256QAM	1	1	17.14	17.26	17.21

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.34	24.11	27.3	28.07	30
QPSK	22.92	23.95	26.88	27.91	30
16QAM	21.78	21.83	25.74	25.79	30
64QAM	20.32	20.34	24.28	24.3	30
256QAM	17.14	17.26	21.1	21.22	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 30 MHz

NR n77 SCS 30 kHz 30M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 631000	CH 633334	CH 635666
			3465 MHz	3500.01 MHz	3534.99 MHz
BPSK	1	1	24.14	24.10	24.05
	1	39	24.06	24.03	24.17
	1	76	24.03	24.05	24.10
	36	0	23.92	23.93	23.93
	36	21	23.96	23.85	23.99
	36	42	23.90	23.90	23.90
	75	0	23.31	23.32	23.40
QPSK	1	1	23.95	23.86	23.95
	1	39	23.84	23.93	23.84
	1	76	23.85	23.89	23.84
	36	0	23.83	23.75	23.86
	36	21	23.86	23.76	23.89
	36	42	23.77	23.84	23.82
	75	0	22.85	22.84	22.94
16QAM	1	1	21.75	21.82	21.85
64QAM	1	1	20.31	20.35	20.29
256QAM	1	1	17.11	17.17	17.12

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.31	24.17	27.27	28.13	30
QPSK	22.84	23.95	26.8	27.91	30
16QAM	21.75	21.85	25.71	25.81	30
64QAM	20.29	20.35	24.25	24.31	30
256QAM	17.11	17.17	21.07	21.13	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 40 MHz

NR n77 SCS 30 kHz 40M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 631334	CH 633334	CH 635332
			3470.01 MHz	3500.01 MHz	3529.98 MHz
BPSK	1	1	24.13	24.17	24.12
	1	53	24.10	24.10	24.13
	1	104	24.08	24.17	24.05
	50	0	23.91	23.99	23.87
	50	28	23.94	23.98	23.94
	50	56	23.87	23.94	23.87
	100	0	23.40	23.29	23.35
QPSK	1	1	23.89	23.89	23.85
	1	53	23.86	23.86	23.90
	1	104	23.89	23.90	23.88
	50	0	23.78	23.89	23.85
	50	28	23.83	23.76	23.81
	50	56	23.75	23.75	23.80
	100	0	22.94	22.83	22.98
16QAM	1	1	21.80	21.78	21.84
64QAM	1	1	20.36	20.37	20.30
256QAM	1	1	17.15	17.24	17.26

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.29	24.17	27.25	28.13	30
QPSK	22.83	23.9	26.79	27.86	30
16QAM	21.78	21.84	25.74	25.8	30
64QAM	20.3	20.37	24.26	24.33	30
256QAM	17.15	17.26	21.11	21.22	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 50 MHz

NR n77 SCS 30 kHz 50M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 631668	CH 633334	CH 635000
			3475.02 MHz	3500.01 MHz	3525 MHz
BPSK	1	1	24.04	24.02	24.05
	1	67	24.06	24.15	24.04
	1	131	24.07	24.02	24.10
	64	0	23.89	23.91	23.97
	64	35	24.00	23.86	23.92
	64	69	23.87	23.96	23.99
	128	0	23.44	23.41	23.41
QPSK	1	1	23.89	23.85	23.93
	1	67	23.89	23.88	23.92
	1	131	23.89	23.87	23.83
	64	0	23.82	23.90	23.89
	64	35	23.90	23.81	23.89
	64	69	23.87	23.80	23.82
	128	0	22.97	22.87	22.87
16QAM	1	1	21.79	21.78	21.86
64QAM	1	1	20.28	20.28	20.40
256QAM	1	1	17.21	17.18	17.23

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.41	24.15	27.37	28.11	30
QPSK	22.87	23.93	26.83	27.89	30
16QAM	21.78	21.86	25.74	25.82	30
64QAM	20.28	20.4	24.24	24.36	30
256QAM	17.18	17.23	21.14	21.19	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 60 MHz

NR n77 SCS 30 kHz 60M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 632000	CH 633334	CH 634666
			3480 MHz	3500.01 MHz	3519.99 MHz
BPSK	1	1	24.06	24.15	24.10
	1	81	24.13	24.12	24.14
	1	160	24.06	24.03	24.10
	81	0	23.92	23.97	23.90
	81	41	23.89	23.94	24.00
	81	81	23.85	23.93	23.94
	162	0	23.44	23.36	23.44
QPSK	1	1	23.95	23.81	23.86
	1	81	23.87	23.88	23.86
	1	160	23.81	23.91	23.93
	81	0	23.76	23.81	23.87
	81	41	23.80	23.77	23.75
	81	81	23.81	23.80	23.80
	162	0	22.97	22.92	22.90
16QAM	1	1	21.86	21.83	21.81
64QAM	1	1	20.29	20.27	20.37
256QAM	1	1	17.20	17.26	17.16

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.36	24.15	27.32	28.11	30
QPSK	22.9	23.95	26.86	27.91	30
16QAM	21.81	21.86	25.77	25.82	30
64QAM	20.27	20.37	24.23	24.33	30
256QAM	17.16	17.26	21.12	21.22	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 70 MHz

NR n77 SCS 30 kHz 70M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 632334	CH 633332	CH 634332
			3485.01 MHz	3499.98 MHz	3514.98 MHz
BPSK	1	1	24.03	24.11	24.04
	1	95	24.13	24.06	24.11
	1	187	24.15	24.10	24.11
	90	0	23.98	23.97	23.98
	90	50	23.96	23.98	23.89
	90	99	23.97	23.90	23.86
	180	0	23.40	23.42	23.41
QPSK	1	1	23.83	23.95	23.93
	1	95	23.93	23.88	23.92
	1	187	23.91	23.88	23.86
	90	0	23.81	23.83	23.85
	90	50	23.84	23.90	23.79
	90	99	23.76	23.84	23.77
	180	0	22.95	22.89	22.91
16QAM	1	1	21.84	21.80	21.86
64QAM	1	1	20.37	20.26	20.28
256QAM	1	1	17.11	17.12	17.15

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.4	24.15	27.36	28.11	30
QPSK	22.89	23.95	26.85	27.91	30
16QAM	21.8	21.86	25.76	25.82	30
64QAM	20.26	20.37	24.22	24.33	30
256QAM	17.11	17.15	21.07	21.11	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 80 MHz

NR n77 SCS 30 kHz 80M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 632668	CH 633334	CH 634000
			3490.02 MHz	3500.01 MHz	3510 MHz
BPSK	1	1	24.05	24.04	24.08
	1	109	24.07	24.14	24.16
	1	215	24.03	24.10	24.04
	108	0	23.99	23.86	23.85
	108	55	23.96	23.89	23.89
	108	109	23.89	23.97	23.85
	216	0	23.41	23.33	23.42
QPSK	1	1	23.90	23.95	23.95
	1	109	23.80	23.81	23.92
	1	215	23.80	23.93	23.82
	108	0	23.77	23.75	23.87
	108	55	23.77	23.75	23.75
	108	109	23.85	23.89	23.87
	216	0	22.83	22.87	22.97
16QAM	1	1	21.77	21.84	21.75
64QAM	1	1	20.37	20.34	20.40
256QAM	1	1	17.20	17.12	17.11

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.33	24.16	27.29	28.12	30
QPSK	22.83	23.95	26.79	27.91	30
16QAM	21.75	21.84	25.71	25.8	30
64QAM	20.34	20.4	24.3	24.36	30
256QAM	17.11	17.2	21.07	21.16	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 90 MHz

NR n77 SCS 30 kHz 90M					
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 633000	CH 633332	CH 633666
			3495 MHz	3499.98 MHz	3504.99 MHz
BPSK	1	1	24.09	24.08	24.06
	1	123	24.05	24.14	24.13
	1	243	24.15	24.04	24.03
	120	0	23.95	23.88	23.97
	120	63	23.91	23.96	23.90
	120	125	23.99	23.85	23.89
	243	0	23.37	23.33	23.35
QPSK	1	1	23.93	23.92	23.84
	1	123	23.93	23.83	23.93
	1	243	23.84	23.93	23.89
	120	0	23.83	23.84	23.82
	120	63	23.86	23.81	23.84
	120	125	23.84	23.76	23.79
	243	0	22.93	22.83	22.88
16QAM	1	1	21.87	21.86	21.82
64QAM	1	1	20.34	20.40	20.32
256QAM	1	1	17.26	17.26	17.22

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.33	24.15	27.29	28.11	30
QPSK	22.83	23.93	26.79	27.89	30
16QAM	21.82	21.87	25.78	25.83	30
64QAM	20.32	20.4	24.28	24.36	30
256QAM	17.22	17.26	21.18	21.22	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) - SISO, Channel Bandwidth: 100 MHz

NR n77 SCS 30 kHz 100M				
Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)	
			CH 633334	
			3500.01 MHz	
BPSK	1	1	24.19	
	1	137	24.17	
	1	271	24.14	
	135	0	23.88	
	135	69	23.88	
	135	138	23.96	
	270	0	23.38	
QPSK	1	1	23.88	
	1	137	23.90	
	1	271	23.86	
	135	0	23.82	
	135	69	23.85	
	135	138	23.89	
	270	0	22.87	
16QAM	1	1	21.81	
64QAM	1	1	20.33	
256QAM	1	1	17.26	

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.38	24.19	27.34	28.15	30
QPSK	22.87	23.9	26.83	27.86	30
16QAM	21.81	21.81	25.77	25.77	30
64QAM	20.33	20.33	24.29	24.29	30
256QAM	17.26	17.26	21.22	21.22	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.1.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 647000			CH 656000			CH 665000		
			3705 MHz			3840 MHz			3975 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.16	19.27	22.23	19.26	19.26	22.27	19.20	19.18	22.20
	1	11	19.18	19.17	22.19	19.22	19.22	22.23	19.15	19.19	22.18
	1	22	19.27	19.23	22.26	19.16	19.16	22.17	19.21	19.25	22.24
	12	0	18.85	18.86	21.87	18.87	18.90	21.90	18.95	19.00	21.99
	12	6	18.88	18.88	21.89	18.95	18.89	21.93	18.98	18.88	21.94
	12	12	18.89	18.90	21.91	18.98	18.92	21.96	18.96	19.00	21.99
	24	0	17.82	17.77	20.81	17.89	17.86	20.89	17.80	17.85	20.84
16QAM	1	1	18.73	18.69	21.72	18.73	18.72	21.74	18.78	18.69	21.75
64QAM	1	1	17.20	17.19	20.21	17.19	17.05	20.13	17.12	17.09	20.12
256QAM	1	1	14.01	14.06	17.05	13.99	13.93	16.97	13.93	13.99	16.97

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.81	22.27	26.72	28.18	30
16QAM	21.72	21.75	27.63	27.66	30
64QAM	20.12	20.21	26.03	26.12	30
256QAM	16.97	17.05	22.88	22.96	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 647168			CH 656000			CH 664832		
			3707.52 MHz			3840 MHz			3972.48 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.13	19.15	22.15	19.22	19.18	22.21	19.25	19.24	22.26
	1	19	19.19	19.24	22.23	19.24	19.22	22.24	19.17	19.23	22.21
	1	36	19.16	19.19	22.19	19.14	19.25	22.21	19.27	19.25	22.27
	18	0	18.92	18.89	21.92	18.95	18.87	21.92	18.93	18.87	21.91
	18	10	18.97	18.92	21.96	18.93	18.93	21.94	18.95	18.92	21.95
	18	20	19.00	18.90	21.96	18.86	18.95	21.92	18.92	18.99	21.97
	36	0	17.79	17.80	20.81	17.87	17.83	20.86	17.80	17.84	20.83
16QAM	1	1	18.83	18.72	21.79	18.76	18.74	21.76	18.83	18.79	21.82
64QAM	1	1	17.16	17.09	20.14	17.11	17.09	20.11	17.10	17.12	20.12
256QAM	1	1	13.94	13.97	16.97	13.99	14.04	17.03	13.91	13.96	16.95

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.81	22.27	26.72	28.18	30
16QAM	21.76	21.82	27.67	27.73	30
64QAM	20.11	20.14	26.02	26.05	30
256QAM	16.95	17.03	22.86	22.94	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 647334			CH 656000			CH 664666		
			3710.01 MHz			3840 MHz			3969.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.19	19.25	22.23	19.24	19.16	22.21	19.18	19.25	22.23
	1	26	19.15	19.16	22.17	19.26	19.24	22.26	19.14	19.25	22.21
	1	49	19.23	19.27	22.26	19.28	19.20	22.25	19.13	19.24	22.20
	25	0	18.99	18.94	21.98	18.87	18.91	21.90	18.91	18.97	21.95
	25	13	18.85	18.91	21.89	18.92	18.93	21.94	18.96	18.98	21.98
	25	26	18.88	18.90	21.90	18.96	18.91	21.95	18.93	18.92	21.94
	50	0	17.81	17.88	20.86	17.77	17.79	20.79	17.91	17.88	20.91
16QAM	1	1	18.74	18.75	21.76	18.80	18.84	21.83	18.71	18.72	21.73
64QAM	1	1	17.06	17.08	20.08	17.16	17.08	20.13	17.16	17.05	20.12
256QAM	1	1	14.02	13.97	17.01	14.01	13.94	16.99	13.97	14.03	17.01

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.79	22.26	26.7	28.17	30
16QAM	21.73	21.83	27.64	27.74	30
64QAM	20.08	20.13	25.99	26.04	30
256QAM	16.99	17.01	22.9	22.92	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 647668			CH 656000			CH 664332		
			3715.02 MHz			3840 MHz			3964.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.19	19.24	22.23	19.28	19.13	22.22	19.13	19.24	22.20
	1	39	19.24	19.28	22.27	19.26	19.15	22.22	19.28	19.26	22.28
	1	76	19.24	19.25	22.26	19.19	19.23	22.22	19.17	19.26	22.23
	36	0	18.95	18.91	21.94	18.89	18.94	21.93	18.96	18.85	21.92
	36	21	18.88	19.00	21.95	18.91	18.97	21.95	18.85	18.92	21.90
	36	42	18.86	18.96	21.92	18.90	18.86	21.89	18.87	18.95	21.92
	75	0	17.81	17.86	20.85	17.78	17.80	20.80	17.86	17.76	20.82
16QAM	1	1	18.84	18.75	21.81	18.73	18.74	21.75	18.73	18.74	21.75
64QAM	1	1	17.08	17.15	20.13	17.08	17.10	20.10	17.10	17.05	20.09
256QAM	1	1	13.96	14.05	17.02	13.93	13.96	16.96	13.95	14.04	17.01

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.8	22.28	26.71	28.19	30
16QAM	21.75	21.81	27.66	27.72	30
64QAM	20.09	20.13	26	26.04	30
256QAM	16.96	17.02	22.87	22.93	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 648000			CH 656000			CH 664000		
			3720 MHz			3840 MHz			3960 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.27	19.27	22.28	19.23	19.28	22.27	19.21	19.24	22.24
	1	53	19.22	19.24	22.24	19.15	19.21	22.19	19.28	19.20	22.25
	1	104	19.22	19.21	22.23	19.19	19.17	22.19	19.23	19.21	22.23
	50	0	18.97	18.92	21.96	18.86	18.99	21.94	18.99	18.99	22.00
	50	28	18.99	18.87	21.94	18.88	18.91	21.91	18.99	18.95	21.98
	50	56	18.87	18.86	21.88	18.87	18.93	21.91	18.90	18.94	21.93
	100	0	17.81	17.80	20.82	17.83	17.91	20.88	17.79	17.79	20.80
16QAM	1	1	18.74	18.77	21.77	18.84	18.78	21.82	18.82	18.78	21.81
64QAM	1	1	17.06	17.18	20.13	17.10	17.15	20.14	17.09	17.09	20.10
256QAM	1	1	13.93	14.02	16.99	13.98	14.06	17.03	14.03	14.01	17.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.8	22.28	26.71	28.19	30
16QAM	21.77	21.82	27.68	27.73	30
64QAM	20.1	20.14	26.01	26.05	30
256QAM	16.99	17.03	22.9	22.94	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 648334			CH 656000			CH 663666		
			3725.01 MHz			3840 MHz			3954.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.23	19.27	22.26	19.16	19.22	22.20	19.25	19.13	22.20
	1	67	19.13	19.23	22.19	19.27	19.15	22.22	19.24	19.15	22.21
	1	131	19.13	19.20	22.18	19.26	19.24	22.26	19.28	19.26	22.28
	64	0	18.86	18.85	21.87	18.87	18.85	21.87	18.95	18.94	21.96
	64	35	18.93	18.89	21.92	18.99	18.98	22.00	18.92	18.95	21.95
	64	69	18.94	18.95	21.96	18.95	18.85	21.91	18.86	18.94	21.91
	128	0	17.86	17.77	20.83	17.83	17.80	20.83	17.91	17.76	20.85
16QAM	1	1	18.80	18.83	21.83	18.84	18.80	21.83	18.69	18.81	21.76
64QAM	1	1	17.13	17.17	20.16	17.17	17.10	20.15	17.17	17.12	20.16
256QAM	1	1	14.01	13.98	17.01	14.00	14.03	17.03	14.02	14.02	17.03

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.83	22.28	26.74	28.19	30
16QAM	21.76	21.83	27.67	27.74	30
64QAM	20.15	20.16	26.06	26.07	30
256QAM	17.01	17.03	22.92	22.94	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 648668			CH 656000			CH 663332		
			3730.02 MHz			3840 MHz			3949.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.23	19.18	22.22	19.24	19.27	22.27	19.16	19.16	22.17
	1	81	19.14	19.14	22.15	19.23	19.14	22.20	19.27	19.19	22.24
	1	160	19.17	19.15	22.17	19.23	19.13	22.19	19.28	19.14	22.22
	81	0	18.86	19.00	21.94	18.97	18.97	21.98	18.97	18.92	21.96
	81	41	18.89	18.92	21.92	18.87	18.87	21.88	18.93	18.88	21.92
	81	81	19.00	18.91	21.97	18.97	18.96	21.98	18.97	18.98	21.99
	162	0	17.90	17.86	20.89	17.77	17.85	20.82	17.81	17.86	20.85
16QAM	1	1	18.76	18.75	21.77	18.70	18.80	21.76	18.83	18.73	21.79
64QAM	1	1	17.20	17.15	20.19	17.15	17.17	20.17	17.08	17.19	20.15
256QAM	1	1	14.02	14.02	17.03	13.96	13.94	16.96	13.92	14.06	17.00

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.82	22.27	26.73	28.18	30
16QAM	21.76	21.79	27.67	27.7	30
64QAM	20.15	20.19	26.06	26.1	30
256QAM	16.96	17.03	22.87	22.94	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH649000			CH 656000			CH 663000		
			3735 MHz			3840 MHz			3945 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.15	19.13	22.15	19.20	19.24	22.23	19.28	19.13	22.22
	1	95	19.19	19.25	22.23	19.21	19.26	22.25	19.26	19.18	22.23
	1	187	19.24	19.24	22.25	19.20	19.22	22.22	19.15	19.21	22.19
	90	0	19.00	19.00	22.01	18.94	18.99	21.98	18.85	18.95	21.91
	90	50	19.00	18.93	21.98	19.00	18.85	21.94	18.97	18.88	21.94
	90	99	18.99	18.86	21.94	18.85	18.98	21.93	18.94	19.00	21.98
	180	0	17.83	17.79	20.82	17.78	17.79	20.80	17.87	17.87	20.88
16QAM	1	1	18.79	18.72	21.77	18.80	18.80	21.81	18.78	18.77	21.79
64QAM	1	1	17.06	17.13	20.11	17.15	17.07	20.12	17.20	17.06	20.14
256QAM	1	1	13.91	14.06	17.00	14.00	14.03	17.03	14.03	14.02	17.04

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.8	22.25	26.71	28.16	30
16QAM	21.77	21.81	27.68	27.72	30
64QAM	20.11	20.14	26.02	26.05	30
256QAM	17	17.04	22.91	22.95	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 649334			CH 656000			CH 662666		
			3740.01 MHz			3840 MHz			3939.99 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.13	19.20	22.18	19.13	19.27	22.21	19.24	19.13	22.20
	1	109	19.27	19.26	22.28	19.14	19.27	22.22	19.17	19.23	22.21
	1	215	19.21	19.17	22.20	19.14	19.25	22.21	19.20	19.19	22.21
	108	0	19.00	19.00	22.01	18.93	18.96	21.96	18.96	19.00	21.99
	108	55	18.98	18.91	21.96	18.94	18.85	21.91	18.89	18.95	21.93
	108	109	18.96	18.99	21.99	18.95	18.92	21.95	18.87	18.94	21.92
	216	0	17.91	17.83	20.88	17.85	17.89	20.88	17.77	17.78	20.79
16QAM	1	1	18.82	18.75	21.80	18.69	18.74	21.73	18.69	18.76	21.74
64QAM	1	1	17.09	17.14	20.13	17.09	17.20	20.16	17.15	17.14	20.16
256QAM	1	1	13.91	13.91	16.92	14.02	14.02	17.03	13.94	13.97	16.97

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.79	22.28	26.7	28.19	30
16QAM	21.73	21.8	27.64	27.71	30
64QAM	20.13	20.16	26.04	26.07	30
256QAM	16.92	17.03	22.83	22.94	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 649668			CH 656000			CH 662332		
			3745.02 MHz			3840 MHz			3934.98 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.13	19.25	22.20	19.24	19.27	22.27	19.14	19.22	22.19
	1	123	19.14	19.18	22.17	19.21	19.17	22.20	19.13	19.28	22.22
	1	243	19.22	19.19	22.22	19.18	19.14	22.17	19.21	19.24	22.24
	120	0	18.99	18.95	21.98	18.95	18.88	21.93	18.88	18.87	21.89
	120	63	18.85	18.96	21.92	18.94	19.00	21.98	18.85	18.98	21.93
	120	125	18.95	18.91	21.94	18.93	18.89	21.92	18.87	18.95	21.92
	243	0	17.83	17.82	20.84	17.77	17.78	20.79	17.88	17.79	20.85
16QAM	1	1	18.75	18.70	21.74	18.78	18.69	21.75	18.74	18.83	21.80
64QAM	1	1	17.19	17.11	20.16	17.19	17.10	20.16	17.12	17.10	20.12
256QAM	1	1	14.06	14.05	17.07	14.06	13.94	17.01	13.95	13.99	16.98

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.79	22.27	26.7	28.18	30
16QAM	21.74	21.8	27.65	27.71	30
64QAM	20.12	20.16	26.03	26.07	30
256QAM	16.98	17.07	22.89	22.98	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO, Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)								
			CH 650000			CH 656000			CH 662000		
			3750 MHz			3840 MHz			3930 MHz		
			TX 1	TX 2	Total	TX 1	TX 2	Total	TX 1	TX 2	Total
QPSK	1	1	19.17	19.17	22.18	19.15	19.25	22.21	19.24	19.26	22.26
	1	137	19.18	19.23	22.22	19.22	19.25	22.25	19.20	19.13	22.18
	1	271	19.27	19.18	22.24	19.24	19.24	22.25	19.23	19.19	22.22
	135	0	18.91	18.95	21.94	19.00	18.96	21.99	18.85	18.94	21.91
	135	69	18.89	18.89	21.90	19.00	18.99	22.01	18.97	18.95	21.97
	135	138	18.93	18.96	21.96	18.95	18.85	21.91	18.85	18.85	21.86
	270	0	17.81	17.88	20.86	17.88	17.90	20.90	17.77	17.90	20.85
16QAM	1	1	18.71	18.73	21.73	18.70	18.74	21.73	18.79	18.78	21.80
64QAM	1	1	17.19	17.12	20.17	17.07	17.06	20.08	17.18	17.15	20.18
256QAM	1	1	14.01	14.00	17.02	13.95	14.04	17.01	13.96	13.93	16.96

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
QPSK	20.85	22.26	26.76	28.17	30
16QAM	21.73	21.8	27.64	27.71	30
64QAM	20.08	20.18	25.99	26.09	30
256QAM	16.96	17.02	22.87	22.93	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 10 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647000	CH 656000	CH 665000
			3705 MHz	3840 MHz	3975 MHz
BPSK	1	1	24.12	24.11	24.09
	1	11	24.17	24.13	24.09
	1	22	24.02	24.13	24.02
	12	0	24.00	23.93	24.00
	12	6	23.94	24.00	23.92
	12	12	23.99	23.97	23.94
	24	0	23.36	23.42	23.33
QPSK	1	1	23.92	23.86	23.81
	1	11	23.88	23.82	23.94
	1	22	23.90	23.88	23.84
	12	0	23.78	23.82	23.87
	12	6	23.87	23.89	23.75
	12	12	23.89	23.89	23.84
	24	0	22.89	22.84	22.93
16 QAM	1	1	21.81	21.78	21.77
64 QAM	1	1	20.37	20.33	20.40
256 QAM	1	1	17.11	17.14	17.21

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.33	24.17	26.46	27.3	30
QPSK	22.84	23.94	25.97	27.07	30
16QAM	21.77	21.81	24.9	24.94	30
64QAM	20.33	20.4	23.46	23.53	30
256QAM	17.11	17.21	20.24	20.34	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 15 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647168	CH 656000	CH 664832
			3707.52 MHz	3840 MHz	3972.48 MHz
BPSK	1	1	24.06	24.13	24.08
	1	19	24.03	24.14	24.07
	1	36	24.08	24.17	24.09
	18	0	23.93	23.99	23.87
	18	10	23.92	23.95	23.99
	18	20	23.92	23.97	23.90
	36	0	23.37	23.44	23.39
QPSK	1	1	23.81	23.89	23.92
	1	19	23.87	23.82	23.81
	1	36	23.84	23.92	23.83
	18	0	23.86	23.83	23.82
	18	10	23.75	23.76	23.80
	18	20	23.85	23.75	23.90
	36	0	22.89	22.89	22.91
16 QAM	1	1	21.75	21.85	21.72
64 QAM	1	1	20.38	20.29	20.38
256 QAM	1	1	17.22	17.17	17.15

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.37	24.17	26.5	27.3	30
QPSK	22.89	23.92	26.02	27.05	30
16QAM	21.72	21.85	24.85	24.98	30
64QAM	20.29	20.38	23.42	23.51	30
256QAM	17.15	17.22	20.28	20.35	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647334	CH 656000	CH 664666
			3710.01 MHz	3840 MHz	3969.99 MHz
BPSK	1	1	24.04	24.02	24.04
	1	26	24.09	24.07	24.08
	1	49	24.09	24.11	24.03
	25	0	23.99	23.96	23.97
	25	13	23.85	23.97	23.89
	25	26	23.91	23.98	23.99
	50	0	23.31	23.44	23.31
QPSK	1	1	23.92	23.80	23.89
	1	26	23.81	23.89	23.86
	1	49	23.84	23.81	23.94
	25	0	23.79	23.90	23.85
	25	13	23.76	23.86	23.86
	25	26	23.80	23.83	23.83
	50	0	22.96	22.89	22.87
16 QAM	1	1	21.75	21.74	21.85
64 QAM	1	1	20.29	20.38	20.31
256 QAM	1	1	17.20	17.12	17.20

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.31	24.11	26.44	27.24	30
QPSK	22.87	23.94	26	27.07	30
16QAM	21.74	21.85	24.87	24.98	30
64QAM	20.29	20.38	23.42	23.51	30
256QAM	17.12	17.2	20.25	20.33	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 647668	CH 656000	CH 664332
			3715.02 MHz	3840 MHz	3964.98 MHz
BPSK	1	1	24.08	24.04	24.11
	1	39	24.08	24.15	24.15
	1	76	24.06	24.07	24.02
	36	0	23.92	23.85	23.98
	36	21	23.95	23.96	23.87
	36	42	23.94	23.91	23.85
	75	0	23.41	23.32	23.43
QPSK	1	1	23.80	23.94	23.91
	1	39	23.93	23.84	23.92
	1	76	23.80	23.83	23.87
	36	0	23.78	23.88	23.81
	36	21	23.80	23.87	23.77
	36	42	23.77	23.89	23.83
	75	0	22.84	22.89	22.91
16 QAM	1	1	21.80	21.84	21.75
64 QAM	1	1	20.33	20.38	20.36
256 QAM	1	1	17.15	17.19	17.17

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.32	24.15	26.45	27.28	30
QPSK	22.84	23.94	25.97	27.07	30
16QAM	21.75	21.84	24.88	24.97	30
64QAM	20.33	20.38	23.46	23.51	30
256QAM	17.15	17.19	20.28	20.32	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 648000	CH 656000	CH 664000
			3720 MHz	3840 MHz	3960 MHz
BPSK	1	1	24.04	24.12	24.16
	1	53	24.06	24.05	24.16
	1	104	24.02	24.10	24.15
	50	0	23.85	23.95	23.98
	50	28	23.94	24.00	23.90
	50	56	23.94	23.88	23.88
	100	0	23.43	23.38	23.43
QPSK	1	1	23.84	23.92	23.89
	1	53	23.84	23.91	23.94
	1	104	23.89	23.85	23.95
	50	0	23.75	23.78	23.84
	50	28	23.85	23.80	23.86
	50	56	23.77	23.89	23.83
	100	0	22.92	22.86	22.86
16 QAM	1	1	21.79	21.77	21.75
64 QAM	1	1	20.33	20.39	20.38
256 QAM	1	1	17.14	17.15	17.16

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.38	24.16	26.51	27.29	30
QPSK	22.86	23.95	25.99	27.08	30
16QAM	21.75	21.79	24.88	24.92	30
64QAM	20.33	20.39	23.46	23.52	30
256QAM	17.14	17.16	20.27	20.29	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 648334	CH 656000	CH 663666
			3725.01 MHz	3840 MHz	3954.99 MHz
BPSK	1	1	24.07	24.14	24.05
	1	67	24.06	24.04	24.16
	1	131	24.09	24.07	24.15
	64	0	23.91	23.99	23.91
	64	35	23.86	23.90	23.98
	64	69	23.98	23.87	23.87
	128	0	23.29	23.35	23.34
QPSK	1	1	23.86	23.83	23.80
	1	67	23.86	23.95	23.93
	1	131	23.84	23.80	23.95
	64	0	23.76	23.89	23.89
	64	35	23.77	23.89	23.79
	64	69	23.81	23.82	23.85
	128	0	22.87	22.92	22.88
16 QAM	1	1	21.74	21.79	21.84
64 QAM	1	1	20.29	20.40	20.26
256 QAM	1	1	17.23	17.26	17.26

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.29	24.16	26.42	27.29	30
QPSK	22.87	23.95	26	27.08	30
16QAM	21.74	21.84	24.87	24.97	30
64QAM	20.26	20.4	23.39	23.53	30
256QAM	17.23	17.26	20.36	20.39	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 648668	CH 656000	CH 663332
			3730.02 MHz	3840 MHz	3949.98 MHz
BPSK	1	1	24.12	24.04	24.14
	1	81	24.10	24.10	24.15
	1	160	24.12	24.15	24.16
	81	0	23.96	23.93	23.90
	81	41	23.94	23.85	23.93
	81	81	23.95	23.91	23.95
	162	0	23.43	23.39	23.42
QPSK	1	1	23.81	23.85	23.81
	1	81	23.91	23.95	23.92
	1	160	23.88	23.80	23.94
	81	0	23.77	23.77	23.84
	81	41	23.84	23.89	23.81
	81	81	23.88	23.80	23.88
	162	0	22.98	22.96	22.84
16 QAM	1	1	21.85	21.74	21.83
64 QAM	1	1	20.37	20.36	20.35
256 QAM	1	1	17.11	17.26	17.22

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.39	24.16	26.52	27.29	30
QPSK	22.84	23.95	25.97	27.08	30
16QAM	21.74	21.85	24.87	24.98	30
64QAM	20.35	20.37	23.48	23.5	30
256QAM	17.11	17.26	20.24	20.39	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 649000	CH 656000	CH 663000
			3735 MHz	3840 MHz	3945 MHz
BPSK	1	1	24.12	24.07	24.10
	1	95	24.06	24.11	24.14
	1	187	24.14	24.07	24.02
	90	0	23.88	23.98	23.95
	90	50	23.85	23.85	23.97
	90	99	23.96	23.89	23.86
	180	0	23.33	23.39	23.31
QPSK	1	1	23.88	23.91	23.86
	1	95	23.85	23.91	23.82
	1	187	23.84	23.94	23.95
	90	0	23.88	23.85	23.90
	90	50	23.78	23.87	23.86
	90	99	23.81	23.79	23.86
	180	0	22.95	22.93	22.93
16 QAM	1	1	21.76	21.82	21.75
64 QAM	1	1	20.36	20.26	20.39
256 QAM	1	1	17.23	17.16	17.18

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.31	24.14	26.44	27.27	30
QPSK	22.93	23.95	26.06	27.08	30
16QAM	21.75	21.82	24.88	24.95	30
64QAM	20.26	20.39	23.39	23.52	30
256QAM	17.16	17.23	20.29	20.36	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 649334	CH 656000	CH 662666
			3740.01 MHz	3840 MHz	3939.99 MHz
BPSK	1	1	24.13	24.13	24.10
	1	109	24.07	24.05	24.08
	1	215	24.17	24.16	24.17
	108	0	23.88	23.87	23.95
	108	55	23.94	23.94	24.00
	108	109	24.00	23.89	23.86
	216	0	23.40	23.43	23.41
QPSK	1	1	23.83	23.94	23.90
	1	109	23.82	23.90	23.93
	1	215	23.89	23.92	23.83
	108	0	23.76	23.90	23.86
	108	55	23.78	23.79	23.80
	108	109	23.79	23.85	23.83
	216	0	22.89	22.86	22.83
16 QAM	1	1	21.80	21.85	21.74
64 QAM	1	1	20.39	20.32	20.35
256 QAM	1	1	17.15	17.23	17.21

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.4	24.17	26.53	27.3	30
QPSK	22.83	23.94	25.96	27.07	30
16QAM	21.74	21.85	24.87	24.98	30
64QAM	20.32	20.39	23.45	23.52	30
256QAM	17.15	17.23	20.28	20.36	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 649668	CH 656000	CH 662332
			3745.02 MHz	3840 MHz	3934.98 MHz
BPSK	1	1	24.17	24.12	24.13
	1	123	24.13	24.15	24.16
	1	243	24.03	24.13	24.10
	120	0	23.96	23.86	23.96
	120	63	23.86	23.87	23.96
	120	125	23.96	23.86	23.99
	243	0	23.40	23.29	23.41
QPSK	1	1	23.95	23.84	23.82
	1	123	23.84	23.94	23.89
	1	243	23.89	23.91	23.87
	120	0	23.90	23.78	23.75
	120	63	23.89	23.90	23.88
	120	125	23.80	23.84	23.86
	243	0	22.85	22.84	22.91
16 QAM	1	1	21.80	21.84	21.77
64 QAM	1	1	20.37	20.36	20.39
256 QAM	1	1	17.17	17.21	17.19

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.29	24.17	26.42	27.3	30
QPSK	22.84	23.95	25.97	27.08	30
16QAM	21.77	21.84	24.9	24.97	30
64QAM	20.36	20.39	23.49	23.52	30
256QAM	17.17	17.21	20.3	20.34	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - SISO, Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Measurement Conducted Power (dBm)		
			CH 650000	CH 656000	CH 662000
			3750 MHz	3840 MHz	3930 MHz
BPSK	1	1	24.22	24.06	24.12
	1	137	24.10	24.13	24.08
	1	271	24.14	24.17	24.13
	135	0	23.85	23.89	23.86
	135	69	23.88	23.99	23.95
	135	138	23.98	23.90	23.94
	270	0	23.39	23.39	23.39
QPSK	1	1	23.93	23.88	23.95
	1	137	23.85	23.89	23.95
	1	271	23.80	23.85	23.87
	135	0	23.80	23.85	23.90
	135	69	23.78	23.79	23.86
	135	138	23.81	23.81	23.86
	270	0	22.98	22.85	22.87
16 QAM	1	1	21.86	21.80	21.72
64 QAM	1	1	20.25	20.36	20.25
256 QAM	1	1	17.20	17.12	17.23

Output Power					
Modulation	Minimum Cond. Power (dBm)	Maximum Cond. Power (dBm)	Minimum EIRP (dBm)	Maximum EIRP (dBm)	EIRP Limit (dBm)
BPSK	23.39	24.22	26.52	27.35	30
QPSK	22.85	23.95	25.98	27.08	30
16QAM	21.72	21.86	24.85	24.99	30
64QAM	20.25	20.36	23.38	23.49	30
256QAM	17.12	17.23	20.25	20.36	30

Note: EIRP (dBm) = Cond. Power (dBm) + Antenna Gain (dBi) + Array Gain (if applicable)

7.2 Radiated Spurious Emissions below 1GHz

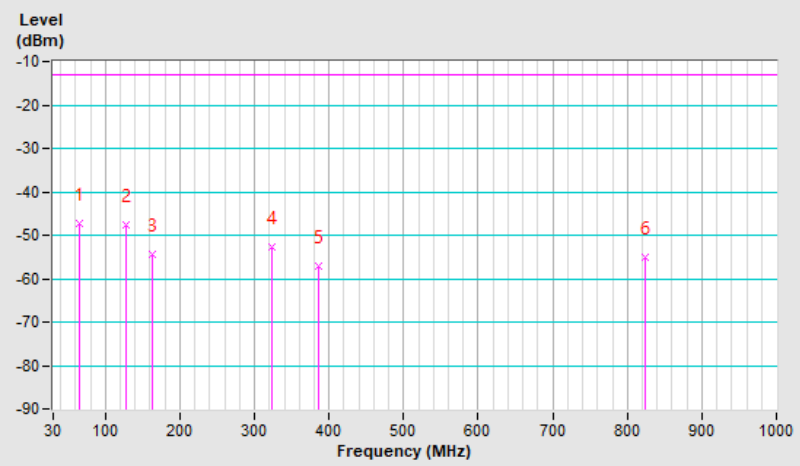
7.2.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 636332：3544.98 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 73 % RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	65.89	-47.35	-13.00	-34.35	2.00 H	277	61.67	-109.02
2	127.97	-47.78	-13.00	-34.78	1.00 H	189	61.07	-108.85
3	163.86	-54.39	-13.00	-41.39	2.00 H	289	53.57	-107.96
4	323.91	-52.86	-13.00	-39.86	1.00 H	69	53.54	-106.40
5	385.99	-57.01	-13.00	-44.01	1.00 H	88	47.96	-104.97
6	824.43	-54.94	-13.00	-41.94	2.00 H	210	41.80	-96.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

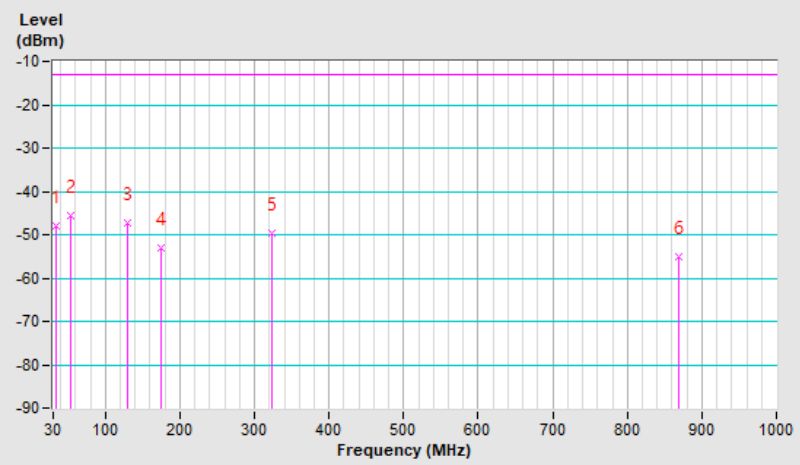


RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 636332：3544.98 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 73 % RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	33.88	-47.93	-13.00	-34.93	1.50 V	73	60.07	-108.00
2	**53.28**	**-45.44**	**-13.00**	**-32.44**	**1.00 V**	**225**	**62.21**	**-107.65**
3	129.91	-47.43	-13.00	-34.43	2.50 V	202	61.24	-108.67
4	174.53	-52.92	-13.00	-39.92	2.00 V	223	55.75	-108.67
5	323.91	-49.63	-13.00	-36.63	2.00 V	28	56.77	-106.40
6	868.08	-55.01	-13.00	-42.01	1.50 V	114	41.73	-96.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



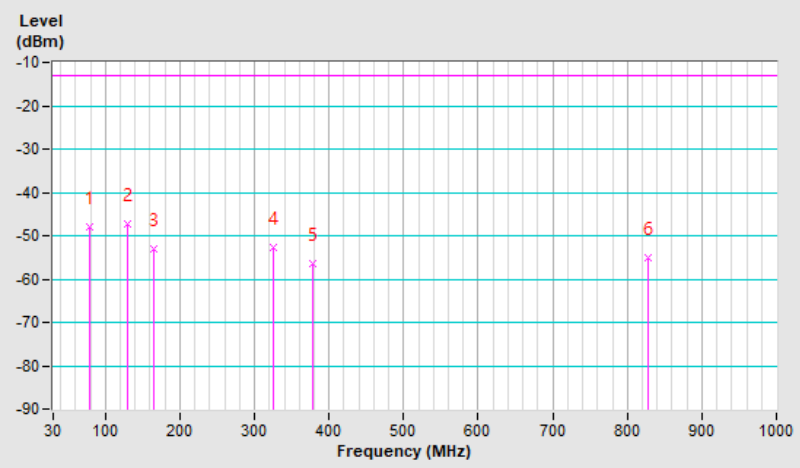
7.2.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 665000：3975 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 73 % RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	78.50	-47.87	-13.00	-34.87	2.00 H	213	63.81	-111.68
2	128.94	-47.29	-13.00	-34.29	1.00 H	176	61.53	-108.82
3	164.83	-53.08	-13.00	-40.08	1.50 H	288	54.99	-108.07
4	324.88	-52.81	-13.00	-39.81	2.00 H	63	53.56	-106.37
5	378.23	-56.47	-13.00	-43.47	1.00 H	96	48.65	-105.12
6	827.34	-55.25	-13.00	-42.25	1.50 H	344	41.51	-96.76

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

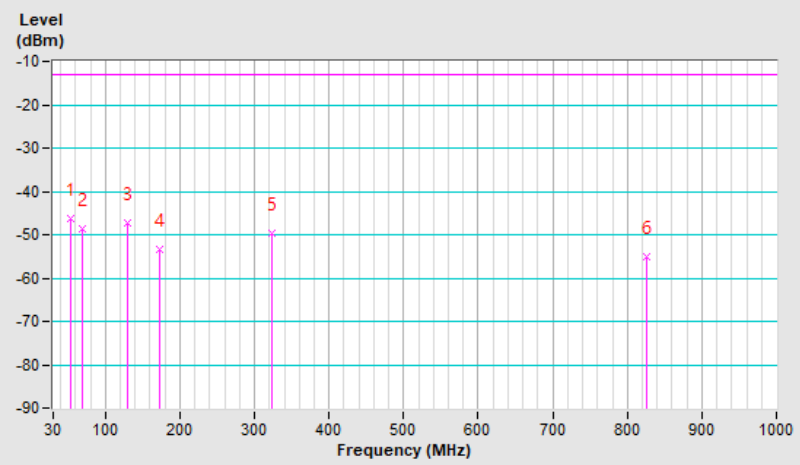


RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 665000：3975 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 73 % RH
Tested By	Thomas Cheng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	53.28	-46.17	-13.00	-33.17	1.00 V	234	61.48	-107.65
2	69.77	-48.55	-13.00	-35.55	1.50 V	82	61.08	-109.63
3	129.91	-47.28	-13.00	-34.28	2.00 V	210	61.39	-108.67
4	172.59	-53.46	-13.00	-40.46	2.00 V	229	55.05	-108.51
5	323.91	-49.70	-13.00	-36.70	2.50 V	99	56.70	-106.40
6	825.40	-55.11	-13.00	-42.11	2.00 V	345	41.63	-96.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.3 Radiated Spurious Emissions above 1GHz

7.3.1 NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz)

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 630334：3455.01 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6910.02	-44.31	-13.00	-31.31	2.86 H	111	55.47	-99.78
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6910.02	-46.52	-13.00	-33.52	1.25 V	235	53.26	-99.78

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 633334：3500.01 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.02	-43.35	-13.00	-30.35	1.74 H	269	55.85	-99.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.02	-45.94	-13.00	-32.94	2.89 V	174	53.26	-99.20

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 636332：3544.98 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7089.96	-42.62	-13.00	-29.62	1.35 H	208	55.69	-98.31
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7089.96	-44.79	-13.00	-31.79	2.97 V	138	53.52	-98.31

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	**Channel**	CH 631668：3475.02 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6950.04	-44.07	-13.00	-31.07	1.63 H	298	55.48	-99.55
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	6950.04	-46.30	-13.00	-33.30	2.63 V	117	53.25	-99.55

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	**Channel**	CH 633334：3500.01 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.02	-43.33	-13.00	-30.33	1.52 H	262	55.87	-99.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.02	-45.48	-13.00	-32.48	2.63 V	177	53.72	-99.20

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	**Channel**	CH 635000：3525 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7050.00	-43.08	-13.00	-30.08	2.62 H	188	55.47	-98.55
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7050.00	-45.28	-13.00	-32.28	1.36 V	205	53.27	-98.55

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	**Channel**	CH 633334：3500.01 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.02	-43.31	-13.00	-30.31	2.07 H	110	55.89	-99.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7000.02	-45.46	-13.00	-32.46	1.42 V	252	53.74	-99.20

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.3.2 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 647000：3705 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7410.00	-42.25	-13.00	-29.25	1.74 H	252	55.41	-97.66
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7410.00	-44.03	-13.00	-31.03	2.35 V	165	53.63	-97.66

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 656000：3840 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7680.00	-42.32	-13.00	-29.32	1.46 H	206	55.42	-97.74
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7680.00	-44.50	-13.00	-31.50	2.52 V	141	53.24	-97.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 10MHz	**Channel**	CH 665000：3975 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	**7950.00**	**-40.70**	**-13.00**	**-27.70**	**1.63 H**	**205**	**55.74**	**-96.44**
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7950.00	-43.03	-13.00	-30.03	2.51 V	169	53.41	-96.44

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	**Channel**	CH 648334：3725.01 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7450.02	-41.84	-13.00	-28.84	2.24 H	166	55.47	-97.31
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7450.02	-44.03	-13.00	-31.03	1.52 V	263	53.28	-97.31

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	**Channel**	CH 656000：3840 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7680.00	-42.09	-13.00	-29.09	2.89 H	176	55.65	-97.74
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7680.00	-44.33	-13.00	-31.33	1.25 V	298	53.41	-97.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 50MHz	**Channel**	CH 663666：3954.99 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7909.98	-41.06	-13.00	-28.06	1.69 H	227	55.58	-96.64
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7909.98	-43.36	-13.00	-30.36	3.25 V	166	53.28	-96.64

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	**Channel**	CH 650000：3750 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7500.00	-41.68	-13.00	-28.68	1.20 H	25	55.79	-97.47
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7500.00	-44.06	-13.00	-31.06	2.63 V	195	53.41	-97.47

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	**Channel**	CH 656000：3840 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7680.00	-42.26	-13.00	-29.26	1.63 H	208	55.48	-97.74
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7680.00	-44.48	-13.00	-31.48	2.52 V	299	53.26	-97.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	**Channel**	CH 662000：3930 MHz
Frequency Range	1 GHz ~ 40 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	21 °C, 66 % RH
Tested By	vincent chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7860.00	-41.66	-13.00	-28.66	1.26 H	206	55.25	-96.91
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**EIRP (dBm)**	**Limit (dBm)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	7860.00	-43.20	-13.00	-30.20	2.63 V	158	53.71	-96.91

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 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 according to ISO/IEC 17025.

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

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

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