



TEST REPORT NO:
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551857694-1869
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Equipment Under Test: Aircscale Indoor Radio 4G+5G ASIR-pRRH 2T2R B25
2T2R B66 4T4R n77 1.8W
Radio Access technology: NR (FDD) NR(TDD) E-UTRA (FDD)
Type: AWHFIQB
Manufacturer: Nokia Solutions and Networks Oy
Address: Tapsitie 5, FI-90620, Oulu, Finland

Task: Conformance test according to the specifications
mentioned below
Test Specification(s): FCC 47 CFR part 2
FCC 47 CFR part 27
FCC 47 CFR part 24
ICES-003 Issue7
Result: The EUT complies with the requirements of the
specification

The results relate only to the items tested as described in this test report.

Approved by: **Date** **Signature**

Jarkko Kenttälä



Team Manager, Type
Approval
Nokia Networks

11 Sep 2025

A handwritten signature in blue ink, appearing to read 'Julia Kallio', is positioned above a horizontal line.

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1 Summary

The following tests were performed according to the FCC rules in order to verify the compliance of the EUT with the FCC requirements:

Test No.	Measurement	RSS Rule	Page Number of this Report	Result
1	RF Output power	§ 2.1046, § 24.232, § 27.50	12	Pass
2	Modulation Characteristics	§ 2.1047	68	Pass
3	Occupied Bandwidth	§ 2.1049, § 2.201, § 24.238, § 27.53	69	Pass
4	Spurious Emissions at Antenna Terminals	§ 2.1051, § 2.1057, § 24.238, § 27.53	107	Pass
5	Field Strength of Spurious Radiation	§ 2.1053 § 24.238 §27.53 §15.109	146	Pass
6	Frequency Stability	§27.54, §2.1055, §24.235	149	Pass

Table 1 Results – Summary

In accordance with the FCC Rule §15.3 (z) the equipment was tested with the limits that are valid for an *unintentional radiator*.

Measurements guidance: FCC OET laboratory KDB: 662911 D01 Multiple Transmitter Output v02r01, 971168 D03 IM Emission Repeater Amp v01, 971168 D01 Power Meas License Digital Systems v03r01 and ANSI C63.26-2015.

Test Laboratory:

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Jarkko Kenttälä

FCC Reg. No: 261413

Testing laboratory accreditation number: T297

1.1 Time Schedule

Test No.	1, 2, 3, 4	5	6
Start of Test:	17 Apr 2025	5 Aug 2025	14 May 2025
End of Test:	5 Sep 2025	8 Aug 2025	26 May 2025

1.2 Participants

Name	Function	Signature
RF Test person (Nokia) Mika Kallankari	Tests no: 1,2,3,4 Setup of EUT	
RF Test person (Nokia) Juha Orava	Tests no: 6 Setup of EUT	
EMC Test person (Nokia) Juho Purola	Test no 5, Setup of EUT	

2 Equipment Under Test

The EUT is AWHFIQB Aircscale Indoor Radio 4G+5G ASIR-pRRH 2T2R B25 2T2R B66 4T4R n77 1.8W

The BTS performs the full RAN function of NR system (New Radio) and E-UTRA.

2.1 Configuration of EUT

The used different EUT configurations are shown by the following table.

Module Type	Aircscale Indoor Radio 4G+5G ASIR-pRRH 2T2R B25 2T2R B66 4T4R n77 1.8W 1.9GHz/2.1GHz/3.45GHz/3.7GHz
Radio Access Technology	NR and E-UTRA
Duplex mode	Frequency Division Duplex (FDD)B25 and B66, Time Division Duplex (TDD)n77
Channel Bandwidth	Single carrier LTE 5MHz (Config. A)B25, B66, Single carrier LTE 10MHz (Config. B) B25, B66, Single carrier LTE 15MHz (Config. C) B25, B66, Single carrier LTE 20MHz (Config. D) B25, B66, Multi carrier 5MHz+5MHz LTE (Config E) B25, B66, Single carrier NR FDD 5MHz (Config. F) B25, B66, Single carrier NR FDD 10MHz (Config. G) B25, B66, Single carrier NR FDD 15MHz (Config. H) B25, B66, Single carrier NR FDD 20MHz (Config I) B25, B66, Single carrier NR FDD 25MHz (Config J) B25, B66, Single carrier NR FDD 30MHz (Config K) B25, B66, Single carrier NR TDD 10MHz (Config. L) n77, Single carrier NR TDD 20MHz (Config M) n77, Single carrier NR TDD 30MHz (Config N) n77, Single carrier NR 40MHz (Config O) n77, Single carrier NR 50MHz (Config P) n77, Single carrier NR 60MHz (Config Q) n77, Single carrier NR 70MHz (Config R) n77, Single carrier NR 80MHz (Config S) n77, Single carrier NR 90MHz (Config T) n77, Single carrier NR 100MHz (Config U) n77, Multi carrier 10MHz+10MHz NR Non contiguous spectrum (Config V) n77, Multi carrier 100MHz+100MHz NR Contiguous spectrum (Config W) n77
Supply Voltage	48.0 V DC
Frequency Range	Band25(PCS): 1930-1995MHz

	Band 66 (AWS) 2110 – 2200MHz 3.45G Band: 3450 – 3550 MHz 3.7G Band: 3700 – 3980 MHz	
Single carrier LTE (FDD)		
Rated Output Power (Prat)	0.2W (23.0dBm) conducted / carrier	
Dual carrier LTE(FDD)		
Rated Output Power (Prat)	0.1W (20.0dBm) conducted / carrier	
Single carrier NR(TDD)		
Rated Output Power (Prat)	0.251W (24.0dBm) conducted / carrier	
Dual carrier NR (TDD)		
Rated Output Power (Prat)	0.126W (21.0dBm) conducted / carrier	
Downlink/Uplink ratio	6/3 to 8/1	
	RX	TX
Number of Antenna	8 (RF1-1 to RF2-4)	8 (RF1-1 to RF2-4)
MiMo	Yes	Yes
Antenna port description	RF2-1, RF2-2: B25 (1930-1995MHz) RF2-3, RF2-4: B66 (2110-2200MHz) RF1-1, RF1-2: n77 (3450-3550MHz) RF1-3, RF1-4: n77 (3700-3980MHz)	

Table 2 Overview of EUT configuration

The tests were performed with three EUT at the antenna ports from RF1-1 to RF2-4. The used different EUT configurations are shown by the following table.

Module Name	Serial-No.	Module Type	Config.
AWHFIQB	NH250200027	Indoor Radio	1,2,3,4
AWHFIQB	NH250200010	Indoor Radio	5,
AWHFIQB	NH250200022	Indoor Radio	6

Table 3 Configuration of EUT

For a functional description of the modules, please refer to the appropriate related parts and exhibit sections of this certification application.

2.2 Operating Conditions

The EUT supports QPSK, 16QAM, 64QAM and 256QAM modulation. If not stated otherwise, the following standard setup procedure for the EUT was used:

The transmitter was set up according to 3GPP TS 36.141 E-UTRA and 3GPP TS 38.141-1 NR Test Models (TM) for all tests:



- TM 1.1: All QPSK modulation testing
- TM 3.2: All 16QAM modulation testing
- TM 3.1: All 64QAM modulation testing
- TM 3.1A All 256QAM modulation testing

Test models TM1.1, TM3.1, TM3.1A and TM3.2, have Downlink/Uplink ratio 6:3.

During the measurements, one carrier channel was tested at a time. The carrier was set to the maximum power level to ensure the maximum emission amplitudes during all measurements.

During the tests, the Aircscale BTS is transmitting a pseudo random bit pattern on the data channels. This ensures that the measurements of the emission characteristics of the transmitter are pursuant to § 2.1049.

3 Test Configuration

If not stated otherwise, the following measurement configuration was used to perform all measurements (see figure below).

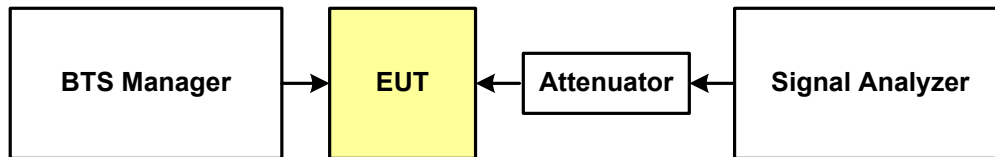


Figure 1 Test Configuration (single output)

The RF output of the transceiver (cell) under test is connected to a signal analyzer via a high-power attenuator to protect the input of the signal analyzer from high RF power levels. A description of the analyzer settings is given in each of the sections describing the measurements. The other transceivers are terminated.

RF measurements were done from several band dedicated antenna ports

Band25 test were measured from RF2-1 and 2-2 connectors

Band66 tests were measured from RF2-3 and 2-4 connectors

Band77 tests were measured from RF1-1 , RF1-2(3450-3550 band) and RF1-3, RF1-4 (3700 band) connectors

A complete list of measurement equipment is included in section 5.1 of this measurement report.

3.1 Calibration of the Test Equipment

All relevant test equipment has a valid calibration from an external calibration laboratory. Additionally, the signal analyzer has a built-in self-calibration procedure. This calibration procedure was activated prior to the measurements so that the analyzer is deemed accurate. High quality cables were used to connect the measurement equipment to the EUT. The actual loss of the attenuator and the cables was measured with a high precision network analyzer and taken into account for all measurements.

Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Case Description	Requirement	Measurement Uncertainty (MU)
RF Power Output	$f \leq 3.0 \text{ GHz}$ $3.0 \text{ GHz} < f \leq 6.0 \text{ GHz}$ $6.0 \text{ GHz} < f \leq 8.0 \text{ GHz}$	$\pm 0.46 \text{ dB}$ $\pm 0.73 \text{ dB}$ $\pm 0.76 \text{ dB}$
Occupied Bandwidth	Channel Bandwidth: 200 kHz 1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz 40 MHz 60 MHz 80 MHz 100 MHz	$\pm 842 \text{ Hz}$ $\pm 6.231 \text{ kHz}$ $\pm 11.322 \text{ kHz}$ $\pm 21.221 \text{ kHz}$ $\pm 42.43 \text{ kHz}$ $\pm 63.65 \text{ kHz}$ $\pm 99.00 \text{ kHz}$ $\pm 198.00 \text{ kHz}$ $\pm 226.28 \text{ kHz}$ $\pm 396.00 \text{ kHz}$ $\pm 424.27 \text{ kHz}$
Spurious Emissions at Antenna Terminals	$9 \text{ kHz} \leq f < 10 \text{ MHz}$ $10 \text{ MHz} \leq f < 50 \text{ MHz}$ $50 \text{ MHz} \leq f < 6 \text{ GHz}$ $6 \text{ GHz} \leq f < 8 \text{ GHz}$ $8 \text{ GHz} \leq f < 13.6 \text{ GHz}$ $13.6 \text{ GHz} \leq f < 22 \text{ GHz}$ $22 \text{ GHz} \leq f < 26.5 \text{ GHz}$ $26.5 \text{ GHz} \leq f < 40 \text{ GHz}$	$\pm 0.61 \text{ dB}$ $\pm 1.12 \text{ dB}$ $\pm 0.61 \text{ dB}$ $\pm 1.38 \text{ dB}$ $\pm 1.93 \text{ dB}$ $\pm 1.92 \text{ dB}$ $\pm 2.15 \text{ dB}$ $\pm 2.82 \text{ dB}$
Frequency Stability	For NR: BW = 1.4 MHz BW = 3 MHz BW = 5 MHz BW = 10 MHz BW = 15 MHz BW = 20 MHz BW = 40 MHz BW = 60 MHz BW = 80 MHz BW = 100 MHz For LTE:	$\pm 0.14 \text{ Hz}$ $\pm 0.3 \text{ Hz}$ $\pm 0.5 \text{ Hz}$ $\pm 1 \text{ Hz}$ $\pm 1.5 \text{ Hz}$ $\pm 2 \text{ Hz}$ $\pm 4 \text{ Hz}$ $\pm 6 \text{ Hz}$ $\pm 8 \text{ Hz}$ $\pm 10 \text{ Hz}$ $\pm 1 \text{ Hz}$

4 Test Results

4.1 Test No. 1: Transmitter Output Power (§ 2.1046, § 24.232, § 27.50)

4.1.1 Limits

The maximum power limits for fixed station and base station are non-AAS fixed station and base station e.i.r.p of 1640 W /MHz. In appendix A there is detailed calculation of EIRP limits.

Peak to average power (PAPR) limit is 13dBm.

4.1.2 Test Procedure and Results

The maximum output power at the antenna terminals was measured using a signal analyzer.

The RF power was measured with a frequency sweep across the carrier. The carrier power was calculated from the signal analyzer by integration over the result. The base station maximum output power was measured with signal analyzer with offset adjust in testcase. (Offset is measured connection loss of the test set up).

For the MiMo output, RF power output was measured from each antenna Ant individually and the results summed mathematically in accordance with ANSI C63.26 -guidance.

Peak to average power (PAPR) was examined using CCDF method and 0.1% value recorded in dB to the tables below.

Power Spectral density was measured using FSW signal Analyzer and following procedure in ANSI C63.26 section 5.2.4.5.

The following table shows the measured conducted output powers at the antenna connectors.

Measured laboratory room temperature and humidity during the tests				
Date	Temperature Min-Max:		Humidity Min-Max:	
17.4.2025 – 5.9.2025	22.1 °C	27.0 °C	6.2 RH%	67.0 RH%

Config A: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1932.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1932.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1932.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1932.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.73	RF2-1	22.71	RF2-1	22.75	RF2-1	22.74
RF2-2	22.72	RF2-2	22.71	RF2-2	22.70	RF2-2	22.71

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.19	RF2-1	23.19	RF2-1	23.20	RF2-3	23.17
RF2-2	22.92	RF2-2	22.93	RF2-2	22.95	RF2-2	22.98

Test Model 1.1 Modulation QPSK Channel Frequency 1992.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1992.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1992.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1992.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.32	RF2-1	23.33	RF2-1	23.32	RF2-1	23.29
RF2-2	23.22	RF2-2	23.22	RF2-2	23.24	RF2-2	23.20

Config A: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2112.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2112.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2112.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2112.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.11	RF2-3	23.17	RF2-3	23.14	RF2-3	23.13
RF2-4	23.26	RF2-4	23.20	RF2-4	23.31	RF2-4	23.30

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.32	RF2-3	23.33	RF2-3	23.25	RF2-3	23.35
RF2-4	23.40	RF2-4	23.42	RF2-4	23.40	RF2-4	23.41

Test Model 1.1 Modulation QPSK Channel Frequency 2197.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2197.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2197.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2197.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.23	RF2-3	23.27	RF2-3	23.30	RF2-3	23.27
RF2-4	23.44	RF2-4	23.44	RF2-4	23.38	RF2-4	23.42

Config B: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1935MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1935MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1935MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1935MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.95	RF2-1	22.97	RF2-1	22.97	RF2-1	22.93
RF2-2	22.99	RF2-2	22.96	RF2-2	23.06	RF2-2	22.94

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.80	RF2-1	23.19	RF2-1	23.18	RF2-1	23.17
RF2-2	22.99	RF2-2	22.97	RF2-2	22.97	RF2-2	23.03

Test Model 1.1 Modulation QPSK Channel Frequency 1990MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1990MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1990MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1990MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.41	RF2-1	23.39	RF2-1	23.38	RF2-1	23.36
RF2-2	23.29	RF2-2	23.29	RF2-2	23.29	RF2-2	23.24

Config B: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2115MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2115MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2115MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2115MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.23	RF2-3	23.21	RF2-3	23.23	RF2-3	23.22
RF2-4	23.28	RF2-4	23.28	RF2-4	23.30	RF2-4	23.22

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.32	RF2-3	23.32	RF2-3	23.36	RF2-3	23.29
RF2-4	23.38	RF2-4	23.36	RF2-4	23.35	RF2-4	23.39

Test Model 1.1 Modulation QPSK Channel Frequency 2195MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2195MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2195MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2195MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.28	RF2-3	23.26	RF2-3	23.28	RF2-3	23.22
RF2-4	23.48	RF2-4	23.45	RF2-4	23.46	RF2-4	23.41

Config C: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1937.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1937.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1937.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1937.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.10	RF2-1	23.10	RF2-1	23.13	RF2-1	23.13
RF2-2	23.10	RF2-2	23.12	RF2-2	23.08	RF2-2	23.04

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.15	RF2-1	23.15	RF2-1	23.17	RF2-1	23.14
RF2-2	23.02	RF2-2	23.09	RF2-2	23.06	RF2-2	23.07

Test Model 1.1 Modulation QPSK Channel Frequency 1987.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1987.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1987.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1987.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.35	RF2-1	23.36	RF2-1	23.40	RF2-1	23.33
RF2-2	23.41	RF2-2	23.33	RF2-2	23.38	RF2-2	23.37

Connfig C: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2117.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2117.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2117.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2117.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.33	RF2-3	23.32	RF2-3	23.33	RF2-3	23.35
RF2-4	23.27	RF2-4	23.32	RF2-4	23.34	RF2-4	23.30

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.38	RF2-3	23.33	RF2-3	23.38	RF2-3	23.38
RF2-4	23.34	RF2-4	23.34	RF2-4	23.35	RF2-4	23.27

Test Model 1.1 Modulation QPSK Channel Frequency 2192.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2192.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2192.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2192.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.38	RF2-3	23.34	RF2-3	23.38	RF2-3	23.33
RF2-4	23.48	RF2-4	23.51	RF2-4	23.54	RF2-4	23.48

Config D: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1940MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1940MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1940MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1940MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.40	RF2-1	22.57	RF2-1	22.56	RF2-1	22.59
RF2-2	23.02	RF2-2	23.04	RF2-2	23.06	RF2-2	23.04

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.88	RF2-1	22.82	RF2-1	22.88	RF2-1	22.86
RF2-2	23.11	RF2-2	23.06	RF2-2	23.08	RF2-2	23.10

Test Model 1.1 Modulation QPSK Channel Frequency 1985MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1985MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1985MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1985MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.11	RF2-1	23.12	RF2-1	23.13	RF2-1	23.11
RF2-2	23.40	RF2-2	23.36	RF2-2	23.41	RF2-2	23.39

Config D: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2120MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2120MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2120MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2120MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.19	RF2-3	23.22	RF2-3	23.20	RF2-3	23.19
RF2-4	23.26	RF2-4	23.22	RF2-4	23.26	RF2-4	23.24

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.29	RF2-3	23.34	RF2-3	23.31	RF2-3	23.34
RF2-4	23.25	RF2-4	23.32	RF2-4	23.33	RF2-4	23.31

Test Model 1.1 Modulation QPSK Channel Frequency 2190MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2190MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2190MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2190MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	22.99	RF2-3	23.34	RF2-3	23.37	RF2-3	23.34
RF2-4	23.49	RF2-4	23.55	RF2-4	23.50	RF2-4	23.52

Config E: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1932.5MHz/ 1992.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1932.5MHz/ 1992.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1932.5MHz/ 1992.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1932.5MHz/ 1992.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	18.47/ 20.07	RF2-1	18.35/ 19.97	RF2-1	18.47/ 20.04	RF2-1	18.46/ 20.06
RF2-2	18.66/ 19.78	RF2-2	18.71/ 19.76	RF2-2	18.74/ 19.77	RF2-2	18.69/ 19.79

Config E: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2112.5MHz/ 2197.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2112.5MHz/ 2197.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2112.5MHz/ 2197.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2112.5MHz/ 2197.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	19.37/ 19.88	RF2-3	19.35/ 19.89	RF2-3	19.40/ 20.00	RF2-3	19.33/ 19.85
RF2-4	19.64/ 20.06	RF2-4	19.60/ 20.01	RF2-4	19.62/ 20.03	RF2-4	19.62/ 20.05

Config F: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1932.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1932.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1932.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1932.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.68	RF2-1	22.69	RF2-1	22.72	RF2-1	22.68
RF2-2	22.59	RF2-2	22.55	RF2-2	22.61	RF2-2	22.62

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.07	RF2-1	23.10	RF2-1	23.16	RF2-1	23.10
RF2-2	22.81	RF2-2	22.83	RF2-2	22.78	RF2-2	22.81

Test Model 1.1 Modulation QPSK Channel Frequency 1992.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1992.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1992.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1992.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.21	RF2-1	23.29	RF2-1	23.27	RF2-1	23.20
RF2-2	23.13	RF2-2	23.14	RF2-2	23.18	RF2-2	23.15

Config F: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2112.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2112.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2112.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2112.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	22.97	RF2-3	23.10	RF2-3	23.04	RF2-3	23.04
RF2-4	23.15	RF2-4	23.16	RF2-4	23.23	RF2-4	23.13

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-2	23.22	RF2-3	23.26	RF2-3	23.24	RF2-3	23.17
RF2-3	23.25	RF2-4	23.26	RF2-4	23.27	RF2-4	23.29

Test Model 1.1 Modulation QPSK Channel Frequency 2197.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2197.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2197.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2197.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.16	RF2-3	23.21	RF2-3	23.16	RF2-3	23.10
RF2-4	23.16	RF2-4	23.18	RF2-4	23.25	RF2-4	23.17

Config G: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1935MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1935MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1935MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1935MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.91	RF2-1	22.91	RF2-1	22.98	RF2-1	22.91
RF2-2	22.83	RF2-2	22.86	RF2-2	22.88	RF2-2	22.84

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.12	RF2-1	23.07	RF2-1	23.17	RF2-1	23.11
RF2-2	22.90	RF2-2	22.93	RF2-2	22.92	RF2-2	22.92

Test Model 1.1 Modulation QPSK Channel Frequency 1990MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1990MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1990MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1990MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.69	RF2-1	23.26	RF2-1	23.34	RF2-1	23.26
RF2-2	23.20	RF2-2	23.18	RF2-2	23.27	RF2-2	23.14

Config G: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2115MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2115MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2115MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2115MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.13	RF2-3	23.15	RF2-3	23.16	RF2-3	23.15
RF2-4	23.18	RF2-4	23.25	RF2-4	23.18	RF2-4	23.16

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.22	RF2-3	23.23	RF2-3	23.22	RF2-3	23.23
RF2-4	23.31	RF2-4	23.32	RF2-4	23.36	RF2-4	23.26

Test Model 1.1 Modulation QPSK Channel Frequency 2195MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2195MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2195MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2195MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.20	RF2-3	23.22	RF2-3	23.25	RF2-3	23.20
RF2-4	23.41	RF2-4	23.41	RF2-4	23.42	RF2-4	23.39

Config H: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1937.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1937.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1937.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1937.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.99	RF2-1	23.00	RF2-1	22.99	RF2-1	23.01
RF2-2	23.08	RF2-2	23.08	RF2-2	23.02	RF2-2	23.08

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.13	RF2-1	23.13	RF2-1	23.14	RF2-1	23.12
RF2-2	22.99	RF2-2	22.92	RF2-2	22.94	RF2-2	23.00

Test Model 1.1 Modulation QPSK Channel Frequency 1987.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1987.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1987.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1987.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.89	RF2-1	23.23	RF2-1	23.22	RF2-1	23.18
RF2-2	23.32	RF2-2	23.32	RF2-2	23.32	RF2-2	23.28

Config H: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2117.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2117.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2117.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2117.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.23	RF2-3	23.24	RF2-3	23.18	RF2-3	23.22
RF2-4	23.28	RF2-4	23.28	RF2-4	23.25	RF2-4	23.29

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.26	RF2-3	23.25	RF2-3	23.23	RF2-3	23.29
RF2-4	23.28	RF2-4	23.27	RF2-4	23.24	RF2-4	23.28

Test Model 1.1 Modulation QPSK Channel Frequency 2192.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2192.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2192.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2192.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.24	RF2-3	23.25	RF2-3	23.22	RF2-3	23.23
RF2-4	23.38	RF2-4	23.42	RF2-4	23.38	RF2-4	23.38

Config I: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1940MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1940MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1940MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1940MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	22.89	RF2-1	22.86	RF2-1	22.83	RF2-1	22.88
RF2-2	23.00	RF2-2	23.03	RF2-2	22.99	RF2-2	23.02

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.15	RF2-1	23.15	RF2-1	23.15	RF2-1	23.18
RF2-2	23.13	RF2-2	23.11	RF2-2	23.11	RF2-2	23.17

Test Model 1.1 Modulation QPSK Channel Frequency 1985MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1985MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1985MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1985MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.22	RF2-1	23.25	RF2-1	23.23	RF2-1	23.25
RF2-2	23.40	RF2-2	23.36	RF2-2	23.38	RF2-2	23.38

Config I: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2120MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2120MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2120MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2120MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.15	RF2-3	23.18	RF2-3	23.13	RF2-3	23.18
RF2-4	23.25	RF2-4	23.26	RF2-4	23.23	RF2-4	23.26

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.28	RF2-3	23.27	RF2-3	23.23	RF2-3	23.23
RF2-4	23.31	RF2-4	23.29	RF2-4	23.35	RF2-4	23.27

Test Model 1.1 Modulation QPSK Channel Frequency 2190MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2190MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2190MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2190MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.28	RF2-3	23.32	RF2-3	23.30	RF2-3	23.30
RF2-4	23.44	RF2-4	23.49	RF2-4	23.45	RF2-4	23.46

Config J: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1942.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1942.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1942.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1942.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.02	RF2-1	23.07	RF2-1	23.04	RF2-1	23.09
RF2-2	23.14	RF2-2	23.12	RF2-2	23.04	RF2-2	23.12

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.14	RF2-1	23.14	RF2-1	23.13	RF2-1	23.15
RF2-2	23.25	RF2-2	23.21	RF2-2	23.19	RF2-2	23.21

Test Model 1.1 Modulation QPSK Channel Frequency 1982.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1982.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1982.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1982.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.32	RF2-1	23.36	RF2-1	23.33	RF2-1	23.37
RF2-2	23.45	RF2-2	23.39	RF2-2	23.31	RF2-2	23.39

Config J: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2122.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2122.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2122.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2122.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.22	RF2-3	23.20	RF2-3	23.17	RF2-3	23.16
RF2-4	23.27	RF2-4	23.29	RF2-4	23.23	RF2-4	23.25

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.27	RF2-3	23.26	RF2-3	23.24	RF2-3	23.25
RF2-4	23.30	RF2-4	23.30	RF2-4	23.24	RF2-4	23.33

Test Model 1.1 Modulation QPSK Channel Frequency 2187.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2187.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2187.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2187.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.39	RF2-3	23.35	RF2-3	23.36	RF2-3	23.39
RF2-4	23.52	RF2-4	23.56	RF2-4	23.52	RF2-4	23.52

Config K: band25

Test Model 1.1 Modulation QPSK Channel Frequency 1945MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1945MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1945MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1945MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.19	RF2-1	23.19	RF2-1	23.14	RF2-1	23.21
RF2-2	23.19	RF2-2	23.20	RF2-2	23.20	RF2-2	23.21

Test Model 1.1 Modulation QPSK Channel Frequency 1962.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1962.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1962.5MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1962.5MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.13	RF2-3	23.13	RF2-3	23.15	RF2-3	23.13
RF2-4	23.21	RF2-4	23.22	RF2-4	23.19	RF2-4	23.21

Test Model 1.1 Modulation QPSK Channel Frequency 1980MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1980MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1980MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 1980MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-1	23.32	RF2-1	23.32	RF2-1	23.31	RF2-1	23.32
RF2-2	23.37	RF2-2	23.36	RF2-2	23.38	RF2-2	23.37

Config K: Band66

Test Model 1.1 Modulation QPSK Channel Frequency 2125MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2125MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2125MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2125MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.33	RF2-3	23.27	RF2-3	23.26	RF2-3	23.24
RF2-4	23.33	RF2-4	23.35	RF2-4	23.31	RF2-4	23.32

Test Model 1.1 Modulation QPSK Channel Frequency 2155MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2155MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2155MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2155MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.31	RF2-3	23.33	RF2-3	23.31	RF2-3	23.32
RF2-4	23.36	RF2-4	23.31	RF2-4	23.34	RF2-4	23.33

Test Model 1.1 Modulation QPSK Channel Frequency 2185MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2185MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2185MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 2185MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF2-3	23.43	RF2-3	23.39	RF2-3	23.43	RF2-3	23.44
RF2-4	23.58	RF2-4	23.60	RF2-4	23.61	RF2-4	23.59

ConfigL: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3455.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3455.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3455.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3455.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.02	RF1-1	23.09	RF1-1	23.05	RF1-1	23.08
RF2-2	23.33	RF2-2	23.30	RF2-2	23.22	RF2-2	23.43

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.28	RF1-1	23.18	RF1-1	23.20	RF1-1	23.24
RF2-2	23.77	RF2-2	23.70	RF2-2	23.76	RF2-2	23.69

Test Model 1.1 Modulation QPSK Channel Frequency 3545.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3545.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3545.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3545.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.97	RF1-1	23.98	RF1-1	23.94	RF1-1	23.93
RF2-2	24.00	RF2-2	24.03	RF2-2	24.08	RF2-2	24.09

Config L: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3705MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3705MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3705MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3705MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.42	RF1-3	23.44	RF1-3	23.36	RF1-3	23.38
RF1-4	23.67	RF1-4	23.63	RF1-4	23.67	RF1-4	23.60

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.80	RF1-3	23.70	RF1-3	23.67	RF1-3	23.66
RF1-4	23.85	RF1-4	23.87	RF1-4	23.85	RF1-4	23.83

Test Model 1.1 Modulation QPSK Channel Frequency 3975MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3975MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3975MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3975MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.65	RF1-3	23.67	RF1-3	23.60	RF1-3	23.64
RF1-4	24.00	RF1-4	24.00	RF1-4	23.97	RF1-4	23.89

Config M: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3459.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3459.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3459.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3459.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.47	RF1-1	23.44	RF1-1	23.42	RF1-1	23.40
RF2-2	23.71	RF2-2	23.66	RF2-2	23.76	RF2-2	23.72

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.40	RF1-1	23.32	RF1-1	23.36	RF1-1	23.35
RF2-2	23.87	RF2-2	23.87	RF2-2	23.89	RF2-2	23.81

Test Model 1.1 Modulation QPSK Channel Frequency 3540MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3540MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3540MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3540MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	24.08	RF1-1	24.07	RF1-1	24.05	RF1-1	24.04
RF2-2	24.14	RF2-2	24.13	RF2-2	24.24	RF2-2	24.10

Config M: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3710.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3710.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3710.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3710.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.52	RF1-3	23.51	RF1-3	23.58	RF1-3	23.46
RF1-4	23.66	RF1-4	23.68	RF1-4	23.69	RF1-4	23.69

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.69	RF1-3	23.71	RF1-3	23.70	RF1-3	23.69
RF1-4	23.81	RF1-4	23.75	RF1-4	23.87	RF1-4	23.76

Test Model 1.1 Modulation QPSK Channel Frequency 3969.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3969.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3969.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3969.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.55	RF1-3	23.55	RF1-3	23.53	RF1-3	23.51
RF1-4	23.76	RF1-4	23.77	RF1-4	23.78	RF1-4	23.74

Config N: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3465MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3465MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3465MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3465MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.02	RF1-1	23.03	RF1-1	22.99	RF1-1	23.00
RF2-2	23.21	RF2-2	23.19	RF2-2	23.15	RF2-2	23.08

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.34	RF1-1	23.35	RF1-1	23.29	RF1-1	23.34
RF2-2	23.77	RF2-2	23.86	RF2-2	23.76	RF2-2	23.73

Test Model 1.1 Modulation QPSK Channel Frequency 3534.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3534.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3534.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3534.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.99	RF1-1	24.00	RF1-1	23.94	RF1-1	24.01
RF2-2	23.97	RF2-2	24.06	RF2-2	24.04	RF2-2	24.11

Config N: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3714.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3714.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3714.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3714.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.54	RF1-3	23.61	RF1-3	23.56	RF1-3	23.60
RF1-4	23.76	RF1-4	23.78	RF1-4	23.70	RF1-4	23.79

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.69	RF1-3	23.71	RF1-3	23.65	RF1-3	23.70
RF1-4	23.84	RF1-4	23.86	RF1-4	23.75	RF1-4	23.78

Test Model 1.1 Modulation QPSK Channel Frequency 3965.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3965.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3965.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3965.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.60	RF1-3	23.63	RF1-3	23.61	RF1-3	23.63
RF1-4	23.87	RF1-4	23.87	RF1-4	23.84	RF1-4	23.88

Config O: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3470.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3470.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3470.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3470.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.05	RF1-1	22.99	RF1-1	23.04	RF1-1	23.06
RF2-2	23.38	RF2-2	23.40	RF2-2	23.34	RF2-2	23.39

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.32	RF1-1	23.39	RF1-1	23.35	RF1-1	23.41
RF2-2	23.93	RF2-2	23.90	RF2-2	23.90	RF2-2	23.87

Test Model 1.1 Modulation QPSK Channel Frequency 3530.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3530.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3530.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3530.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.92	RF1-1	23.88	RF1-1	23.88	RF1-1	23.93
RF2-2	24.16	RF2-2	24.04	RF2-2	24.12	RF2-2	24.07

Config O: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3720MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3720MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3720MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3720MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.59	RF1-3	23.58	RF1-3	23.56	RF1-3	23.59
RF1-4	23.72	RF1-4	23.77	RF1-4	23.74	RF1-4	23.80

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.74	RF1-3	23.74	RF1-3	23.74	RF1-3	23.75
RF1-4	23.82	RF1-4	23.83	RF1-4	23.83	RF1-4	23.82

Test Model 1.1 Modulation QPSK Channel Frequency 3960MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3960MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3960MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3960MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.72	RF1-3	23.72	RF1-3	23.72	RF1-3	23.68
RF1-4	23.87	RF1-4	23.90	RF1-4	23.89	RF1-4	23.90

Config P: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3474.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3474.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3474.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3474.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.20	RF1-1	23.20	RF1-1	23.17	RF1-1	23.22
RF2-2	23.56	RF2-2	23.53	RF2-2	23.48	RF2-2	23.52

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.47	RF1-1	23.50	RF1-1	23.47	RF1-1	23.49
RF2-2	23.94	RF2-2	23.92	RF2-2	23.85	RF2-2	23.93

Test Model 1.1 Modulation QPSK Channel Frequency 3525MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3525MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3525MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3525MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.93	RF1-1	23.91	RF1-1	23.92	RF1-1	23.95
RF2-2	24.11	RF2-2	24.08	RF2-2	24.07	RF2-2	24.13

Config P: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3725.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3725.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3725.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3725.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.61	RF1-3	23.64	RF1-3	23.58	RF1-3	23.60
RF1-4	23.84	RF1-4	23.84	RF1-4	23.78	RF1-4	23.86

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.75	RF1-3	23.81	RF1-3	23.72	RF1-3	23.78
RF1-4	23.89	RF1-4	23.94	RF1-4	23.87	RF1-4	23.90

Test Model 1.1 Modulation QPSK Channel Frequency 3954.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3954.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3954.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3954.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.78	RF1-3	23.76	RF1-3	23.72	RF1-3	23.76
RF1-4	24.06	RF1-4	24.02	RF1-4	23.97	RF1-4	24.03

Config Q: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3480MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3480MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3480MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3480MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.23	RF1-1	23.18	RF1-1	23.17	RF1-1	23.21
RF2-2	23.60	RF2-2	23.62	RF2-2	23.55	RF2-2	23.63

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.47	RF1-1	23.44	RF1-1	23.43	RF1-1	23.44
RF2-2	23.91	RF2-2	23.88	RF2-2	23.90	RF2-2	23.89

Test Model 1.1 Modulation QPSK Channel Frequency 3519.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3519.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3519.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3519.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.80	RF1-1	23.80	RF1-1	23.81	RF1-1	23.80
RF2-2	24.10	RF2-2	24.07	RF2-2	24.08	RF2-2	24.05

Config Q: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3729.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3729.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3729.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3729.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.56	RF1-3	23.53	RF1-3	23.57	RF1-3	23.57
RF1-4	23.98	RF1-4	23.88	RF1-4	23.89	RF1-4	23.95

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.73	RF1-3	23.66	RF1-3	23.71	RF1-3	23.69
RF1-4	23.82	RF1-4	23.83	RF1-4	23.86	RF1-4	23.86

Test Model 1.1 Modulation QPSK Channel Frequency 3950.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3950.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3950.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3950.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.78	RF1-3	23.74	RF1-3	23.77	RF1-3	23.74
RF1-4	24.01	RF1-4	23.99	RF1-4	24.08	RF1-4	23.99

Config R: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3485.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3485.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3485.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3485.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.17	RF1-1	23.21	RF1-1	23.23	RF1-1	23.22
RF2-2	23.53	RF2-2	23.54	RF2-2	23.50	RF2-2	23.54

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.41	RF1-1	23.39	RF1-1	23.42	RF1-1	23.43
RF2-2	23.89	RF2-2	23.87	RF2-2	23.87	RF2-2	23.83

Test Model 1.1 Modulation QPSK Channel Frequency 3515.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3515.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3515.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3515.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.64	RF1-1	23.63	RF1-1	23.63	RF1-1	23.65
RF2-2	24.02	RF2-2	24.01	RF2-2	23.99	RF2-2	23.89

Config R: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3735MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3735MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3735MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3735MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.61	RF1-3	23.54	RF1-3	23.58	RF1-3	23.54
RF1-4	23.80	RF1-4	23.79	RF1-4	23.79	RF1-4	23.76

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.74	RF1-3	23.72	RF1-3	23.72	RF1-3	23.70
RF1-4	23.77	RF1-4	23.75	RF1-4	23.76	RF1-4	23.73

Test Model 1.1 Modulation QPSK Channel Frequency 3945MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3945MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3945MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3945MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.85	RF1-3	23.83	RF1-3	23.84	RF1-3	23.84
RF1-4	23.99	RF1-4	23.90	RF1-4	23.96	RF1-4	23.96

Config S: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3489.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3489.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3489.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3489.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.22	RF1-1	23.29	RF1-1	23.20	RF1-1	23.28
RF2-2	23.67	RF2-2	23.64	RF2-2	23.62	RF2-2	23.63

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.43	RF1-1	23.41	RF1-1	23.35	RF1-1	23.39
RF2-2	23.75	RF2-2	23.68	RF2-2	23.71	RF2-2	23.75

Test Model 1.1 Modulation QPSK Channel Frequency 3510MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3510MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3510MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3510MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.56	RF1-1	23.51	RF1-1	23.49	RF1-1	23.49
RF2-2	23.88	RF2-2	23.89	RF2-2	23.86	RF2-2	23.86

Config S: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3740.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3740.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3740.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3740.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.52	RF1-3	23.48	RF1-3	23.48	RF1-3	23.50
RF1-4	23.78	RF1-4	23.76	RF1-4	23.74	RF1-4	23.79

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.52	RF1-3	23.50	RF1-3	23.52	RF1-3	23.55
RF1-4	23.77	RF1-4	23.75	RF1-4	23.73	RF1-4	23.70

Test Model 1.1 Modulation QPSK Channel Frequency 3939.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3939.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3939.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3939.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.86	RF1-3	23.82	RF1-3	23.84	RF1-3	23.86
RF1-4	24.00	RF1-4	24.08	RF1-4	23.97	RF1-4	24.07

Config T: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3495MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3495MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3495MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3495MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.33	RF1-1	23.36	RF1-1	23.25	RF1-1	23.34
RF2-2	23.69	RF2-2	23.64	RF2-2	23.61	RF2-2	23.71

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.38	RF1-1	23.39	RF1-1	23.30	RF1-1	23.40
RF2-2	23.76	RF2-2	23.78	RF2-2	23.73	RF2-2	23.76

Test Model 1.1 Modulation QPSK Channel Frequency 3504.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3504.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3504.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3504.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.52	RF1-1	23.50	RF1-1	23.40	RF1-1	23.47
RF2-2	23.86	RF2-2	23.82	RF2-2	23.76	RF2-2	23.83

Config T: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3744.99MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3744.99MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3744.99MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3744.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.51	RF1-3	23.45	RF1-3	23.44	RF1-3	23.43
RF1-4	23.79	RF1-4	23.80	RF1-4	23.72	RF1-4	23.79

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.68	RF1-3	23.65	RF1-3	23.60	RF1-3	23.66
RF1-4	23.80	RF1-4	23.81	RF1-4	23.74	RF1-4	23.76

Test Model 1.1 Modulation QPSK Channel Frequency 3935.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3935.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3935.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3935.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.89	RF1-3	23.83	RF1-3	23.87	RF1-3	23.91
RF1-4	24.03	RF1-4	23.81	RF1-4	23.96	RF1-4	24.02

Config U: 3450-3550 band

Test Model 1.1 Modulation QPSK Channel Frequency 3500.01MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3500.01MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3500.01MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3500.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	23.28	RF1-1	23.32	RF1-1	23.31	RF1-1	23.34
RF2-2	23.69	RF2-2	23.68	RF2-2	23.71	RF2-2	23.69

Config U: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3750MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3750MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3750MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3750MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.64	RF1-3	23.58	RF1-3	23.59	RF1-3	23.57
RF1-4	23.87	RF1-4	23.84	RF1-4	23.88	RF1-4	23.88

Test Model 1.1 Modulation QPSK Channel Frequency 3840MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3840MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3840MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3840MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.56	RF1-3	23.49	RF1-3	23.61	RF1-3	23.54
RF1-4	23.82	RF1-4	23.74	RF1-4	23.84	RF1-4	23.81

Test Model 1.1 Modulation QPSK Channel Frequency 3930MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3930MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3930MHz		Test Model 3.1A Modulation 256QAM Channel Frequency 3930MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	23.95	RF1-3	23.90	RF1-3	24.02	RF1-3	23.91
RF1-4	24.07	RF1-4	24.02	RF1-4	24.10	RF1-4	24.05

Config V: 3450-3550 band

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1A	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3455.01MHz/ 3545.01MHz		Channel Frequency 3455.01MHz/ 3545.01MHz		Channel Frequency 3455.01MHz/ 3545.01MHz		Channel Frequency 3455.01MHz/ 3545.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-1	19.47/ 20.69	RF1-1	19.46/ 20.73	RF1-1	19.40/ 20.61	RF1-1	19.46/ 20.67
RF2-2	19.52/ 20.71	RF2-2	18.76/ 20.72	RF2-2	19.52/ 20.72	RF2-2	19.53/ 20.68

Config:V 3700 band

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1A	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3705MHz/ 3834.99MHz		Channel Frequency 3705MHz/ 3834.99MHz		Channel Frequency 3705MHz/ 3834.99MHz		Channel Frequency 3705MHz/ 3834.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	20.02/ 20.25	RF1-3	20.22/ 20.19	RF1-3	20.31/ 20.16	RF1-3	20.24/ 20.14
RF1-4	20.41/ 20.87	RF1-4	20.65/ 20.80	RF1-4	20.44/ 20.88	RF1-4	20.50/ 21.11

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1A	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3774.99MHz/ 3905.01MHz		Channel Frequency 3774.99MHz/ 3905.01MHz		Channel Frequency 3774.99MHz/ 3905.01MHz		Channel Frequency 3774.99MHz/ 3905.01MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	20.74/ 20.39	RF1-3	20.57/ 20.38	RF1-3	20.58/ 20.38	RF1-3	20.62/ 20.33
RF1-4	20.29/ 20.86	RF1-4	20.27/ 20.93	RF1-4	20.27/ 20.82	RF1-4	20.36/ 20.77

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1A	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3845.01MHz/ 3975MHz		Channel Frequency 3845.01MHz/ 3975MHz		Channel Frequency 3845.01MHz/ 3975MHz		Channel Frequency 3845.01MHz/ 3975MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	20.86/ 20.08	RF1-3	20.92/ 20.05	RF1-3	20.93/ 20.02	RF1-3	20.95/ 20.01
RF1-4	20.70/ 20.11	RF1-4	20.57/ 20.30	RF1-4	20.59/ 20.34	RF1-4	20.61/ 20.27

Config W 3700

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1A	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3750MHz/ 3849.99MHz		Channel Frequency 3750MHz/ 3849.99MHz		Channel Frequency 3750MHz/ 3849.99MHz		Channel Frequency 3750MHz/ 3849.99MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	20.50/ 20.23	RF1-3	20.49/ 20.20	RF1-3	20.48/ 20.29	RF1-3	20.47/ 20.17
RF1-4	20.12/ 20.51	RF1-4	20.17/ 20.43	RF1-4	20.10/ 20.54	RF1-4	20.14/ 20.45

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1A	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3789.99MHz/ 3889.98MHz		Channel Frequency 3789.99MHz/ 3889.98MHz		Channel Frequency 3789.99MHz/ 3889.98MHz		Channel Frequency 3789.99MHz/ 3889.98MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	20.52/ 20.04	RF1-3	20.54/ 20.01	RF1-3	20.59/ 20.07	RF1-3	20.55/ 20.02
RF1-4	20.39/ 20.62	RF1-4	20.38/ 20.56	RF1-4	20.38/ 20.57	RF1-4	20.31/ 20.55

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1A	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3830.01MHz/ 3930MHz		Channel Frequency 3830.01MHz/ 3930MHz		Channel Frequency 3830.01MHz/ 3930MHz		Channel Frequency 3830.01MHz/ 3930MHz	
Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)	Tx port	(dBm)
RF1-3	21.02/ 20.49	RF1-3	20.97/ 20.44	RF1-3	20.99/ 20.49	RF1-3	20.97/ 20.43
RF1-4	20.66/ 20.65	RF1-4	20.53/ 20.65	RF1-4	20.61/ 20.69	RF1-4	20.57/ 20.60

Config A: B25

Test Model 1.1 Modulation QPSK		Test Model 3.1 Modulation 64QAM		Test Model 3.2 Modulation 16QAM		Test Model 3.1a Modulation 256QAM	
Channel Frequency 1932.5MHz		Channel Frequency 1932.5MHz		Channel Frequency 1932.5MHz		Channel Frequency 1932.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-1	16.67	RF2-1	16.67	RF2-1	17.00	RF2-1	16.63
RF2-2	16.62	RF2-2	16.59	RF2-2	16.95	RF2-2	16.63
Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-1	16.95	RF2-1	16.93	RF2-1	17.21	RF2-1	16.96
RF2-2	16.70	RF2-2	16.67	RF2-2	16.96	RF2-2	16.74
Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-1	17.07	RF2-1	17.08	RF2-1	17.39	RF2-1	17.10
RF2-2	16.94	RF2-2	16.94	RF2-2	17.32	RF2-2	17.00

Table 4 Power Spectral Density (B25 E-UTRA 5 MHz Channel BW)

Config A: B66

Test Model 1.1 Modulation QPSK		Test Model 3.1 Modulation 64QAM		Test Model 3.2 Modulation 16QAM		Test Model 3.1a Modulation 256QAM	
Channel Frequency 2112.5MHz		Channel Frequency 2112.5MHz		Channel Frequency 2112.5MHz		Channel Frequency 2112.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-3	16.84	RF2-3	16.86	RF2-3	17.23	RF2-3	16.91
RF2-4	16.95	RF2-4	16.99	RF2-4	17.32	RF2-4	16.97
Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-3	17.08	RF2-3	17.07	RF2-3	17.36	RF2-3	17.07
RF2-4	17.10	RF2-4	17.16	RF2-4	17.43	RF2-4	17.13
Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-3	16.99	RF2-3	17.02	RF2-3	17.26	RF2-3	16.98
RF2-4	17.20	RF2-4	17.19	RF2-4	17.47	RF2-4	17.17

Table 5 Power Spectral Density (B66 E-UTRA 5 MHz Channel BW)

Config F: B25

Test Model 1.1 Modulation QPSK		Test Model 3.1 Modulation 64QAM		Test Model 3.2 Modulation 16QAM		Test Model 3.1a Modulation 256QAM	
Channel Frequency 1932.5MHz		Channel Frequency 1932.5MHz		Channel Frequency 1932.5MHz		Channel Frequency 1932.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-1	16.57	RF2-1	16.60	RF2-1	16.76	RF2-1	16.66
RF2-2	16.51	RF2-2	16.48	RF2-2	16.66	RF2-2	16.46
Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-1	16.88	RF2-1	16.89	RF2-1	17.14	RF2-1	16.88
RF2-2	16.57	RF2-2	16.58	RF2-2	16.87	RF2-2	16.54
Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-1	16.95	RF2-1	16.98	RF2-1	17.23	RF2-1	16.95
RF2-2	16.85	RF2-2	16.90	RF2-2	17.13	RF2-2	16.90

Table 6 Power Spectral Density (B25 NR 5 MHz Channel BW)

Config F: B66

Test Model 1.1 Modulation QPSK		Test Model 3.1 Modulation 64QAM		Test Model 3.2 Modulation 16QAM		Test Model 3.1a Modulation 256QAM	
Channel Frequency 2112.5MHz		Channel Frequency 2112.5MHz		Channel Frequency 2112.5MHz		Channel Frequency 2112.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-3	16.84	RF2-3	16.77	RF2-3	17.00	RF2-3	16.80
RF2-4	16.91	RF2-4	16.86	RF2-4	17.12	RF2-4	16.87
Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-3	16.98	RF2-3	16.94	RF2-3	17.18	RF2-3	17.01
RF2-4	17.02	RF2-4	17.05	RF2-4	17.25	RF2-4	17.02
Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF2-3	16.88	RF2-3	16.89	RF2-3	17.16	RF2-3	16.87
RF2-4	16.94	RF2-4	16.93	RF2-4	17.22	RF2-4	16.94

Table 7 Power Spectral Density (B66 NR 5 MHz Channel BW)

Config L: 3450-3550 band

Test Model 1.1 Modulation QPSK		Test Model 3.1 Modulation 64QAM		Test Model 3.2 Modulation 16QAM		Test Model 3.1a Modulation 256QAM	
Channel Frequency 3455.01MHz		Channel Frequency 3455.01MHz		Channel Frequency 3455.01MHz		Channel Frequency 3455.01MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF1-1	14.18	RF1-1	14.13	RF1-1	15.01	RF1-1	14.17
RF1-2	14.47	RF1-2	14.37	RF1-2	15.19	RF1-2	14.42
Channel Frequency 3500.01MHz		Channel Frequency 3500.01MHz		Channel Frequency 3500.01MHz		Channel Frequency 3500.01MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF1-1	14.22	RF1-1	14.17	RF1-1	14.97	RF1-1	14.18
RF1-2	14.66	RF1-2	14.65	RF1-2	15.42	RF1-2	14.62
Channel Frequency 3545.01MHz		Channel Frequency 3545.01MHz		Channel Frequency 3545.01MHz		Channel Frequency 3545.01MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF1-1	14.89	RF1-1	14.89	RF1-1	15.67	RF1-1	14.90
RF1-2	14.99	RF1-2	14.95	RF1-2	15.71	RF1-2	15.02

Table 8 Power Spectral Density (B77 NR 10 MHz Channel BW)

Config L: 3700 band

Test Model 1.1 Modulation QPSK		Test Model 3.1 Modulation 64QAM		Test Model 3.2 Modulation 16QAM		Test Model 3.1a Modulation 256QAM	
Channel Frequency 3705MHz		Channel Frequency 3705MHz		Channel Frequency 3705MHz		Channel Frequency 3705MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF1-3	14.34	RF1-3	14.44	RF1-3	15.10	RF1-3	14.33
RF1-4	14.59	RF1-4	14.77	RF1-4	15.33	RF1-4	14.60
Channel Frequency 3840MHz		Channel Frequency 3840MHz		Channel Frequency 3840MHz		Channel Frequency 3840MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF1-3	14.65	RF1-3	14.63	RF1-3	15.40	RF1-3	14.60
RF1-4	14.89	RF1-4	14.96	RF1-4	15.53	RF1-4	14.80
Channel Frequency 3975MHz		Channel Frequency 3975MHz		Channel Frequency 3975MHz		Channel Frequency 3975MHz	
Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz	Tx Port	dBm/MHz
RF1-3	14.70	RF1-3	14.67	RF1-3	15.41	RF1-3	14.56
RF1-4	15.01	RF1-4	14.97	RF1-4	15.68	RF1-4	14.92

Table 9 Power Spectral Density (B77 NR 10 MHz Channel BW)

The power spectral density levels were found to be compliant with the manufacturer's specifications and with all requirements of the of FCC rules.

Config A: B25

Test Model 1.1 Modulation QPSK Channel Frequency 1932.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1932.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1932.5MHz		Test Model 3.1a Modulation 256QAM Channel Frequency 1932.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-1	7.42	RF2-1	7.40	RF2-1	7.40	RF2-1	7.42
RF2-2	7.40	RF2-2	7.40	RF2-2	7.38	RF2-2	7.42
Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-1	7.42	RF2-1	7.40	RF2-1	7.42	RF2-1	7.40
RF2-2	7.38	RF2-2	7.40	RF2-2	7.40	RF2-2	7.40
Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-1	7.40	RF2-1	7.40	RF2-1	7.40	RF2-1	7.42
RF2-2	7.40	RF2-2	7.40	RF2-2	7.42	RF2-2	7.40

Table 10 Peak to Average Power (B25 E-UTRA 5 MHz BW)

Config A: B66

Test Model 1.1 Modulation QPSK Channel Frequency 2112.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2112.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2112.5MHz		Test Model 3.1a Modulation 256QAM Channel Frequency 2112.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-3	7.40	RF2-3	7.40	RF2-3	7.38	RF2-3	7.38
RF2-4	7.42	RF2-4	7.42	RF2-4	7.38	RF2-4	7.36
Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-3	7.40	RF2-3	7.40	RF2-3	7.40	RF2-3	7.38
RF2-4	7.42	RF2-4	7.42	RF2-4	7.38	RF2-4	7.38
Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-3	7.40	RF2-3	7.40	RF2-3	7.40	RF2-3	7.38
RF2-4	7.40	RF2-4	7.40	RF2-4	7.38	RF2-4	7.38

Table 11 Peak to Average Power (B66 E-UTRA 5 MHz BW)

Config F: B25

Test Model 1.1 Modulation QPSK Channel Frequency 1932.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 1932.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 1932.5MHz		Test Model 3.1a Modulation 256QAM Channel Frequency 1932.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-1	7.40	RF2-1	7.38	RF2-1	7.36	RF2-1	7.36
RF2-2	7.42	RF2-2	7.46	RF2-2	7.38	RF2-2	7.36
Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz		Channel Frequency 1962.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-1	7.38	RF2-1	7.42	RF2-1	7.38	RF2-1	7.40
RF2-2	7.40	RF2-2	7.42	RF2-2	7.34	RF2-2	7.36
Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz		Channel Frequency 1992.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-1	7.44	RF2-1	7.42	RF2-1	7.38	RF2-1	7.38
RF2-2	7.42	RF2-2	7.42	RF2-2	7.36	RF2-2	7.40

Table 12 Peak to Average Power (B25 NR 5 MHz BW)

Config F: B66

Test Model 1.1 Modulation QPSK Channel Frequency 2112.5MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 2112.5MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 2112.5MHz		Test Model 3.1a Modulation 256QAM Channel Frequency 2112.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-3	7.42	RF2-3	7.42	RF2-3	7.38	RF2-3	7.48
RF2-4	7.42	RF2-4	7.40	RF2-4	7.36	RF2-4	7.46
Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz		Channel Frequency 2155MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-3	7.46	RF2-3	7.38	RF2-3	7.38	RF2-3	7.44
RF2-4	7.42	RF2-4	7.46	RF2-4	7.36	RF2-4	7.44
Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz		Channel Frequency 2197.5MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF2-3	7.42	RF2-3	7.44	RF2-3	7.38	RF2-3	7.42
RF2-4	7.46	RF2-4	7.38	RF2-4	7.36	RF2-4	7.44

Table 13 Peak to Average Power (B66 NR 5 MHz BW)

Config L: 3450-3550 band

Test Model 1.1		Test Model 3.1		Test Model 3.2		Test Model 3.1a	
Modulation QPSK		Modulation 64QAM		Modulation 16QAM		Modulation 256QAM	
Channel Frequency 3455.01MHz		Channel Frequency 3455.01MHz		Channel Frequency 3455.01MHz		Channel Frequency 3455.01MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF1-1	10.62	RF1-1	10.68	RF1-1	10.64	RF1-1	10.74
RF1-2	10.74	RF1-2	10.72	RF1-2	10.56	RF1-2	10.68
Channel Frequency 3500.01MHz		Channel Frequency 3500.01MHz		Channel Frequency 3500.01MHz		Channel Frequency 3500.01MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF1-1	10.66	RF1-1	10.72	RF1-1	10.58	RF1-1	10.76
RF1-2	10.74	RF1-2	10.68	RF1-2	10.58	RF1-2	10.70
Channel Frequency 3545.01MHz		Channel Frequency 3545.01MHz		Channel Frequency 3545.01MHz		Channel Frequency 3545.01MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF1-1	10.64	RF1-1	10.64	RF1-1	10.62	RF1-1	10.72
RF1-2	10.68	RF1-2	10.74	RF1-2	10.68	RF1-2	10.82

Table 14 Peak to Average Power (B77 NR 10 MHz BW)

Config L: 3700 band

Test Model 1.1 Modulation QPSK Channel Frequency 3705MHz		Test Model 3.1 Modulation 64QAM Channel Frequency 3705MHz		Test Model 3.2 Modulation 16QAM Channel Frequency 3705MHz		Test Model 3.1a Modulation 256QAM Channel Frequency 3705MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF1-3	10.74	RF1-3	10.70	RF1-3	10.78	RF1-3	10.76
RF1-4	10.68	RF1-4	10.66	RF1-4	10.76	RF1-4	10.78
Channel Frequency 3840MHz		Channel Frequency 3840MHz		Channel Frequency 3840MHz		Channel Frequency 3840MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF1-3	10.74	RF1-3	10.64	RF1-3	10.78	RF1-3	10.74
RF1-4	10.72	RF1-4	10.66	RF1-4	10.76	RF1-4	10.78
Channel Frequency 3975MHz		Channel Frequency 3975MHz		Channel Frequency 3975MHz		Channel Frequency 3975MHz	
Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%	Tx Port	CCDF 0.1%
RF1-3	10.74	RF1-3	10.66	RF1-3	10.78	RF1-3	10.76
RF1-4	10.70	RF1-4	10.66	RF1-4	10.80	RF1-4	10.74

Table 15 Peak to Average Power (B77 NR 10 MHz BW)

The peak to average power levels were found to be compliant with the manufacturer's specifications and with all requirements of the FCC rules.

4.2 Test No. 2: Modulation Characteristics (§ 2.1047,)

Sample of digital modulation screenshots are in section 5.2.2, in I/Q constellation diagrams and tables, showing QPSK, 16QAM, 64QAM and 256QAM –modulation generation.

No further testing is required under this section in FCC rules.

4.3 Test No. 3: Occupied Bandwidth (§ 2.1049, § 2.201, § 24.238, § 27.53)

4.3.1 Limits

Para. No. 2.1049. The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to 0.5% of the emitted power.

FCC § 24.238(b) for PCS and § 27.53(h)(3) for AWS: The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

4.3.2 Test Procedure and Results

The 99% occupied bandwidth of the carrier emission is measured using a signal analyzer with Resolution Bandwidth (RBW) set to 1-5% of the bandwidth and video bandwidth shall be at least three times the RBW value.

The Relative measurement procedure of OBW is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). The typical ratio for transmitters is -26 dB, corresponding to the 26 dB BW. The Relative measurement procedure emission is measured using a signal analyzer with Resolution Bandwidth (RBW) set to 1-5% of bandwidth and video bandwidth shall be at least three times the RBW value.

See screenshots in section 5.2.3 for details.

The following tables summarize the results:

Measured laboratory room temperature and humidity during the tests				
Date	Temperature Min-Max:		Humidity Min-Max:	
17.4.2025 – 05.9.2025	22.1°C	27.0 °C	6.2 RH%	67.0 RH%

Config A: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1932.5MHz			Channel Frequency 1932.5MHz			Channel Frequency 1932.5MHz			Channel Frequency 1932.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	4.49	4.86	RF2-1	4.51	4.81	RF2-1	4.48	4.86	RF2-1	4.50	4.86
RF2-2	4.49	4.83	RF2-2	4.51	4.85	RF2-2	4.48	4.78	RF2-2	4.50	4.86
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	4.50	4.86	RF2-1	4.51	4.86	RF2-1	4.48	4.81	RF2-1	4.50	4.85
RF2-2	4.50	4.86	RF2-2	4.51	4.84	RF2-2	4.49	4.84	RF2-2	4.50	4.86
Channel Frequency 1992.5MHz			Channel Frequency 1992.5MHz			Channel Frequency 1992.5MHz			Channel Frequency 1992.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	4.50	4.84	RF2-1	4.51	4.85	RF2-1	4.49	4.81	RF2-1	4.50	4.82
RF2-2	4.50	4.87	RF2-2	4.51	4.82	RF2-2	4.48	4.81	RF2-2	4.50	4.85

Table 16 Occupied Bandwidth (Band 25 E-UTRA 5 MHz Channel bandwidth)

Config A: B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2112.5MHz			Channel Frequency 2112.5MHz			Channel Frequency 2112.5MHz			Channel Frequency 2112.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	4.50	4.86	RF2-3	4.50	4.83	RF2-3	4.48	4.86	RF2-3	4.50	4.85
RF2-4	4.50	4.85	RF2-4	4.50	4.83	RF2-4	4.49	4.82	RF2-4	4.49	4.82
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	4.50	4.86	RF2-3	4.50	4.85	RF2-3	4.48	4.79	RF2-3	4.50	4.84
RF2-4	4.50	4.85	RF2-4	4.50	4.85	RF2-4	4.49	4.85	RF2-4	4.49	4.85
Channel Frequency 2197.5MHz			Channel Frequency 2197.5MHz			Channel Frequency 2197.5MHz			Channel Frequency 2197.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	4.50	4.87	RF2-3	4.50	4.85	RF2-3	4.48	4.82	RF2-3	4.49	4.85
RF2-4	4.50	4.86	RF2-4	4.50	4.85	RF2-4	4.48	4.82	RF2-4	4.50	4.85

Table 17 Occupied Bandwidth (Band 66 E-UTRA 5 MHz Channel bandwidth)

Config B: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1935MHz			Channel Frequency 1935MHz			Channel Frequency 1935MHz			Channel Frequency 1935MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	8.98	9.82	RF2-1	8.98	9.78	RF2-1	9.01	9.84	RF2-1	9.00	9.79
RF2-2	8.98	9.84	RF2-2	8.98	9.83	RF2-2	9.00	9.79	RF2-2	8.99	9.83
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	8.99	9.84	RF2-1	9.00	9.82	RF2-1	9.02	9.80	RF2-1	9.01	9.79
RF2-2	8.99	9.77	RF2-2	8.99	9.75	RF2-2	9.02	9.80	RF2-2	9.01	9.80
Channel Frequency 1990MHz			Channel Frequency 1990MHz			Channel Frequency 1990MHz			Channel Frequency 1990MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	8.99	9.82	RF2-1	8.99	9.74	RF2-1	9.02	9.84	RF2-1	9.01	9.80
RF2-2	8.99	9.84	RF2-2	8.99	9.83	RF2-2	9.01	9.81	RF2-2	9.01	9.82

Table 18 Occupied Bandwidth (Band 25 E-UTRA 10 MHz Channel bandwidth)

B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2115MHz			Channel Frequency 2115MHz			Channel Frequency 2115MHz			Channel Frequency 2115MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	9.00	9.83	RF2-3	8.99	9.80	RF2-3	8.99	9.85	RF2-3	9.00	9.81
RF2-4	9.00	9.83	RF2-4	9.00	9.82	RF2-4	8.99	9.79	RF2-4	9.00	9.82
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	9.00	9.82	RF2-3	9.00	9.81	RF2-3	8.99	9.78	RF2-3	9.00	9.80
RF2-4	9.00	9.80	RF2-4	9.00	9.84	RF2-4	8.99	9.79	RF2-4	9.00	9.84
Channel Frequency 2195MHz			Channel Frequency 2195MHz			Channel Frequency 2195MHz			Channel Frequency 2195MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	9.00	9.81	RF2-3	9.00	9.82	RF2-3	8.99	9.81	RF2-3	9.00	9.82
RF2-4	9.00	9.82	RF2-4	9.00	9.80	RF2-4	8.99	9.81	RF2-4	9.00	9.81

Table 19 Occupied Bandwidth (Band 66 E-UTRA 10 MHz Channel bandwidth)

Config C: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1937.5MHz			Channel Frequency 1937.5MHz			Channel Frequency 1937.5MHz			Channel Frequency 1937.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	13.49	14.71	RF2-1	13.46	14.71	RF2-1	13.46	14.63	RF2-1	13.47	14.79
RF2-2	13.48	14.74	RF2-2	13.46	14.74	RF2-2	13.49	14.54	RF2-2	13.47	14.63
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	13.49	14.75	RF2-1	13.47	14.72	RF2-1	13.48	14.51	RF2-1	13.48	14.69
RF2-2	13.50	14.70	RF2-2	13.48	14.74	RF2-2	13.50	14.72	RF2-2	13.50	14.69
Channel Frequency 1987.5MHz			Channel Frequency 1987.5MHz			Channel Frequency 1987.5MHz			Channel Frequency 1987.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	13.49	14.73	RF2-1	13.46	14.71	RF2-1	13.45	14.66	RF2-1	13.48	14.83
RF2-2	13.50	14.72	RF2-2	13.48	14.71	RF2-2	13.48	14.67	RF2-2	13.49	14.77

Table 20 Occupied Bandwidth (Band 25 E-UTRA 15 MHz Channel bandwidth)

B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2117.5MHz			Channel Frequency 2117.5MHz			Channel Frequency 2117.5MHz			Channel Frequency 2117.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	13.47	14.78	RF2-3	13.49	14.74	RF2-3	13.48	14.65	RF2-3	13.49	14.68
RF2-4	13.48	14.74	RF2-4	13.48	14.71	RF2-4	13.47	14.80	RF2-4	13.49	14.70
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	13.48	14.74	RF2-3	13.49	14.76	RF2-3	13.50	14.71	RF2-3	13.49	14.68
RF2-4	13.48	14.73	RF2-4	13.48	14.71	RF2-4	13.48	14.69	RF2-4	13.49	14.62
Channel Frequency 2192.5MHz			Channel Frequency 2192.5MHz			Channel Frequency 2192.5MHz			Channel Frequency 2192.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	13.48	14.76	RF2-3	13.48	14.75	RF2-3	13.48	14.55	RF2-3	13.48	14.83
RF2-4	13.48	14.76	RF2-4	13.48	14.76	RF2-4	13.49	14.75	RF2-4	13.48	14.70

Table 21 Occupied Bandwidth (Band 66 E-UTRA 15 MHz Channel bandwidth)

Config D: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1940MHz			Channel Frequency 1940MHz			Channel Frequency 1940MHz			Channel Frequency 1940MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	18.04	19.85	RF2-1	18.03	19.74	RF2-1	18.05	19.87	RF2-1	18.04	19.79
RF2-2	18.03	19.79	RF2-2	18.02	19.78	RF2-2	18.05	19.87	RF2-2	18.03	19.80
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	18.06	19.85	RF2-1	18.05	19.78	RF2-1	18.06	19.87	RF2-1	18.05	19.83
RF2-2	18.07	19.86	RF2-2	18.07	19.74	RF2-2	18.07	19.80	RF2-2	18.07	19.69
Channel Frequency 1985MHz			Channel Frequency 1985MHz			Channel Frequency 1985MHz			Channel Frequency 1985MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	18.03	19.86	RF2-1	18.02	19.78	RF2-1	18.04	19.91	RF2-1	18.03	19.76
RF2-2	18.05	19.77	RF2-2	18.05	19.82	RF2-2	18.05	19.91	RF2-2	18.05	19.73

Table 22 Occupied Bandwidth (Band 25 E-UTRA 20 MHz Channel bandwidth)

B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2120MHz			Channel Frequency 2120MHz			Channel Frequency 2120MHz			Channel Frequency 2120MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	18.04	19.81	RF2-3	18.02	19.80	RF2-3	18.06	19.87	RF2-3	18.03	19.90
RF2-4	18.04	19.88	RF2-4	18.02	19.80	RF2-4	18.07	19.88	RF2-4	18.04	19.86
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	18.05	19.68	RF2-3	18.03	19.92	RF2-3	18.08	19.82	RF2-3	18.05	19.82
RF2-4	18.05	19.91	RF2-4	18.03	19.82	RF2-4	18.06	19.78	RF2-4	18.05	19.80
Channel Frequency 2190MHz			Channel Frequency 2190MHz			Channel Frequency 2190MHz			Channel Frequency 2190MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	18.05	19.87	RF2-3	18.03	19.79	RF2-3	18.16	19.77	RF2-3	18.04	19.90
RF2-4	18.04	19.94	RF2-4	18.02	19.82	RF2-4	18.05	19.81	RF2-4	18.05	19.90

Table 23 Occupied Bandwidth (Band 66 E-UTRA 20 MHz Channel bandwidth)

Config F: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1932.5MHz			Channel Frequency 1932.5MHz			Channel Frequency 1932.5MHz			Channel Frequency 1932.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	4.48	4.86	RF2-1	4.49	4.86	RF2-1	4.50	4.82	RF2-1	4.48	4.85
RF2-2	4.48	4.82	RF2-2	4.49	4.84	RF2-2	4.49	4.83	RF2-2	4.47	4.82
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	4.47	4.85	RF2-1	4.49	4.84	RF2-1	4.50	4.83	RF2-1	4.48	4.85
RF2-2	4.48	4.84	RF2-2	4.49	4.84	RF2-2	4.50	4.85	RF2-2	4.48	4.82
Channel Frequency 1992.5MHz			Channel Frequency 1992.5MHz			Channel Frequency 1992.5MHz			Channel Frequency 1992.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	4.48	4.85	RF2-1	4.49	4.84	RF2-1	4.50	4.84	RF2-1	4.48	4.85
RF2-2	4.49	4.85	RF2-2	4.49	4.86	RF2-2	4.50	4.84	RF2-2	4.48	4.84

Table 24 Occupied Bandwidth (Band 25 NR 5 MHz Channel bandwidth)

Config F: B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2112.5MHz			Channel Frequency 2112.5MHz			Channel Frequency 2112.5MHz			Channel Frequency 2112.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	4.49	4.87	RF2-3	4.49	4.86	RF2-3	4.50	4.84	RF2-3	4.49	4.83
RF2-4	4.48	4.85	RF2-4	4.49	4.85	RF2-4	4.50	4.84	RF2-4	4.48	4.82
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	4.48	4.85	RF2-3	4.49	4.84	RF2-3	4.50	4.83	RF2-3	4.48	4.81
RF2-4	4.48	4.86	RF2-4	4.49	4.84	RF2-4	4.50	4.81	RF2-4	4.48	4.83
Channel Frequency 2197.5MHz			Channel Frequency 2197.5MHz			Channel Frequency 2197.5MHz			Channel Frequency 2197.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	4.49	4.86	RF2-3	4.49	4.86	RF2-3	4.50	4.84	RF2-3	4.48	4.83
RF2-4	4.49	4.84	RF2-4	4.48	4.84	RF2-4	4.5.1	4.82	RF2-4	4.48	4.83

Table 25 Occupied Bandwidth (Band 66 NR 5 MHz Channel bandwidth)

Config G: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1935MHz			Channel Frequency 1935MHz			Channel Frequency 1935MHz			Channel Frequency 1935MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	9.30	9.87	RF2-1	9.31	9.92	RF2-1	9.24	9.83	RF2-1	9.29	9.90
RF2-2	9.30	9.87	RF2-2	9.31	9.90	RF2-2	9.24	9.79	RF2-2	9.29	9.92
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	9.31	9.93	RF2-1	9.32	9.88	RF2-1	9.25	9.85	RF2-1	9.30	9.87
RF2-2	9.31	9.94	RF2-2	9.32	9.91	RF2-2	9.25	9.84	RF2-2	9.30	9.93
Channel Frequency 1990MHz			Channel Frequency 1990MHz			Channel Frequency 1990MHz			Channel Frequency 1990MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	9.30	9.94	RF2-1	9.31	9.84	RF2-1	9.25	9.86	RF2-1	9.29	9.86
RF2-2	9.30	9.94	RF2-2	9.32	9.92	RF2-2	9.25	9.82	RF2-2	9.30	9.89

Table 26 Occupied Bandwidth (Band 25 NR 10 MHz Channel bandwidth)

Config G: B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2115MHz			Channel Frequency 2115MHz			Channel Frequency 2115MHz			Channel Frequency 2115MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	9.31	9.87	RF2-3	9.30	9.93	RF2-3	9.25	9.87	RF2-3	9.31	9.93
RF2-4	9.31	9.91	RF2-4	9.30	9.90	RF2-4	9.25	9.86	RF2-4	9.31	9.94
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	9.31	9.87	RF2-3	9.31	9.94	RF2-3	9.25	9.83	RF2-3	9.31	9.94
RF2-4	9.30	9.85	RF2-4	9.30	9.90	RF2-4	9.25	9.79	RF2-4	9.31	9.88
Channel Frequency 2195MHz			Channel Frequency 2195MHz			Channel Frequency 2195MHz			Channel Frequency 2195MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	9.30	9.92	RF2-3	9.31	9.93	RF2-3	9.25	9.86	RF2-3	9.31	9.93
RF2-4	9.30	9.84	RF2-4	9.31	9.91	RF2-4	9.24	9.86	RF2-4	9.31	9.94

Table 27 Occupied Bandwidth (Band 66 NR 10 MHz Channel bandwidth)

Config H: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1937.5MHz			Channel Frequency 1937.5MHz			Channel Frequency 1937.5MHz			Channel Frequency 1937.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	14.11	14.97	RF2-1	14.13	15.00	RF2-1	14.16	14.92	RF2-1	14.12	15.01
RF2-2	14.11	14.95	RF2-2	14.13	14.99	RF2-2	14.16	14.95	RF2-2	14.12	14.96
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	14.12	15.01	RF2-1	14.15	14.98	RF2-1	14.17	14.94	RF2-1	14.13	15.00
RF2-2	14.14	15.01	RF2-2	14.15	15.03	RF2-2	14.19	14.95	RF2-2	14.14	14.97
Channel Frequency 1987.5MHz			Channel Frequency 1987.5MHz			Channel Frequency 1987.5MHz			Channel Frequency 1987.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	14.12	14.98	RF2-1	14.14	14.93	RF2-1	14.17	14.97	RF2-1	14.12	15.01
RF2-2	14.13	14.96	RF2-2	14.15	15.00	RF2-2	14.18	14.98	RF2-2	14.14	15.00

Table 28 Occupied Bandwidth (Band 25 NR 15 MHz Channel bandwidth)

B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2117.5MHz			Channel Frequency 2117.5MHz			Channel Frequency 2117.5MHz			Channel Frequency 2117.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	14.14	15.04	RF2-3	14.11	14.98	RF2-3	14.18	14.88	RF2-3	14.14	15.01
RF2-4	14.14	14.93	RF2-4	14.12	14.91	RF2-4	14.17	14.98	RF2-4	14.14	14.94
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	14.14	15.01	RF2-3	14.13	14.99	RF2-3	14.17	14.96	RF2-3	14.15	14.94
RF2-4	14.14	15.01	RF2-4	14.12	14.99	RF2-4	14.17	14.93	RF2-4	14.14	14.97
Channel Frequency 2192.5MHz			Channel Frequency 2192.5MHz			Channel Frequency 2192.5MHz			Channel Frequency 2192.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	14.14	15.00	RF2-3	14.13	14.95	RF2-3	14.18	14.94	RF2-3	14.14	14.99
RF2-4	14.14	15.03	RF2-4	14.13	15.00	RF2-4	14.17	14.98	RF2-4	14.14	14.91

Table 29 Occupied Bandwidth (Band 66 NR 15 MHz Channel bandwidth)

Config I: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1940MHz			Channel Frequency 1940MHz			Channel Frequency 1940MHz			Channel Frequency 1940MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	19.00	20.27	RF2-1	19.00	20.24	RF2-1	19.05	20.19	RF2-1	18.99	20.28
RF2-2	19.00	20.17	RF2-2	19.00	20.17	RF2-2	19.05	20.19	RF2-2	18.97	20.27
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	19.00	20.20	RF2-1	19.01	20.30	RF2-1	19.07	20.21	RF2-1	19.01	20.30
RF2-2	19.02	20.19	RF2-2	19.03	20.19	RF2-2	19.09	20.25	RF2-2	19.02	20.20
Channel Frequency 1985MHz			Channel Frequency 1985MHz			Channel Frequency 1985MHz			Channel Frequency 1985MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	18.99	20.24	RF2-1	19.02	20.27	RF2-1	19.06	20.21	RF2-1	18.99	20.20
RF2-2	19.01	20.27	RF2-2	19.02	20.23	RF2-2	19.07	20.22	RF2-2	19.00	20.26

Table 30 Occupied Bandwidth (Band 25 NR 20 MHz Channel bandwidth)

B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2120MHz			Channel Frequency 2120MHz			Channel Frequency 2120MHz			Channel Frequency 2120MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	19.01	20.25	RF2-3	18.99	20.27	RF2-3	19.07	20.18	RF2-3	19.01	20.29
RF2-4	19.01	20.26	RF2-4	19.00	20.30	RF2-4	19.08	20.23	RF2-4	19.01	20.26
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	19.02	20.32	RF2-3	19.01	20.26	RF2-3	19.09	20.21	RF2-3	19.02	20.29
RF2-4	19.02	20.23	RF2-4	19.01	20.19	RF2-4	19.10	20.21	RF2-4	19.02	20.24
Channel Frequency 2190MHz			Channel Frequency 2190MHz			Channel Frequency 2190MHz			Channel Frequency 2190MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	19.01	20.18	RF2-3	19.01	20.30	RF2-3	19.09	20.24	RF2-3	19.02	20.26
RF2-4	19.01	20.25	RF2-4	19.00	20.26	RF2-4	19.09	20.19	RF2-4	19.01	20.26

Table 31 Occupied Bandwidth (Band 66 NR 20 MHz Channel bandwidth)

Config J: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1942.5MHz			Channel Frequency 1942.5MHz			Channel Frequency 1942.5MHz			Channel Frequency 1942.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	23.75	25.03	RF2-1	23.77	25.14	RF2-1	23.84	25.10	RF2-1	23.77	25.15
RF2-2	23.74	25.04	RF2-2	23.75	25.14	RF2-2	23.83	25.00	RF2-2	23.76	25.17
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	23.77	25.06	RF2-1	23.79	25.17	RF2-1	23.86	25.13	RF2-1	23.79	25.08
RF2-2	23.79	25.07	RF2-2	23.81	25.19	RF2-2	23.88	25.07	RF2-2	23.80	25.12
Channel Frequency 1982.5MHz			Channel Frequency 1982.5MHz			Channel Frequency 1982.5MHz			Channel Frequency 1982.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	23.76	25.17	RF2-1	23.77	25.17	RF2-1	23.86	25.14	RF2-1	23.78	25.15
RF2-2	23.76	25.10	RF2-2	23.78	25.17	RF2-2	23.85	25.12	RF2-2	23.78	25.21

Table 32 Occupied Bandwidth (Band 25 NR 25 MHz Channel bandwidth)

B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2122.5MHz			Channel Frequency 2122.5MHz			Channel Frequency 2122.5MHz			Channel Frequency 2122.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	23.76	25.06	RF2-3	23.78	25.13	RF2-3	23.86	25.13	RF2-3	23.79	25.17
RF2-4	23.77	25.15	RF2-4	23.79	25.12	RF2-4	23.86	25.06	RF2-4	23.80	25.18
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	23.78	25.07	RF2-3	23.80	25.12	RF2-3	23.88	25.14	RF2-3	23.81	25.17
RF2-4	23.78	25.18	RF2-4	23.80	25.15	RF2-4	23.88	25.16	RF2-4	23.81	25.18
Channel Frequency 2187.5MHz			Channel Frequency 2187.5MHz			Channel Frequency 2187.5MHz			Channel Frequency 2187.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	23.77	25.14	RF2-3	23.78	25.15	RF2-3	23.87	25.14	RF2-3	23.80	25.13
RF2-4	23.77	25.13	RF2-4	23.79	25.14	RF2-4	23.87	25.17	RF2-4	23.81	25.13

Table 33 Occupied Bandwidth (Band 66 NR 25 MHz Channel bandwidth)

Config K: B25

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 1945MHz			Channel Frequency 1945MHz			Channel Frequency 1945MHz			Channel Frequency 1945MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	28.54	30.02	RF2-1	28.52	30.02	RF2-1	28.40	29.84	RF2-1	28.54	29.94
RF2-2	28.52	29.95	RF2-2	28.51	29.99	RF2-2	28.37	29.76	RF2-2	28.51	29.96
Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz			Channel Frequency 1962.5MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	28.57	30.06	RF2-1	28.56	30.03	RF2-1	28.41	29.92	RF2-1	28.56	29.97
RF2-2	28.60	30.05	RF2-2	28.59	30.03	RF2-2	28.44	29.81	RF2-2	28.60	30.03
Channel Frequency 1980MHz			Channel Frequency 1980MHz			Channel Frequency 1980MHz			Channel Frequency 1980MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-1	28.56	30.04	RF2-1	28.56	30.09	RF2-1	28.39	29.86	RF2-1	28.57	30.02
RF2-2	28.55	30.01	RF2-2	28.55	29.93	RF2-2	28.37	29.94	RF2-2	28.55	30.08

Table 34 Occupied Bandwidth (Band 25 NR 30 MHz Channel bandwidth)

B66

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 2125MHz			Channel Frequency 2125MHz			Channel Frequency 2125MHz			Channel Frequency 2125MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	28.55	29.95	RF2-3	28.55	30.01	RF2-3	28.41	30.00	RF2-3	28.58	30.11
RF2-4	28.56	30.06	RF2-4	28.55	30.05	RF2-4	28.41	30.03	RF2-4	28.59	30.02
Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz			Channel Frequency 2155MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	28.57	30.08	RF2-3	28.57	30.06	RF2-3	28.41	29.98	RF2-3	28.61	30.02
RF2-4	28.57	30.02	RF2-4	28.57	30.06	RF2-4	28.42	29.85	RF2-4	28.61	30.05
Channel Frequency 2185MHz			Channel Frequency 2185MHz			Channel Frequency 2185MHz			Channel Frequency 2185MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF2-3	28.56	30.06	RF2-3	28.56	30.09	RF2-3	28.40	29.86	RF2-3	28.59	30.08
RF2-4	28.56	30.12	RF2-4	28.55	30.08	RF2-4	28.40	29.87	RF2-4	28.59	30.02

Table 35 Occupied Bandwidth (Band 66 NR 30 MHz Channel bandwidth)

Config L: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3455.01MHz			Channel Frequency 3455.01MHz			Channel Frequency 3455.01MHz			Channel Frequency 3455.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	8.68	9.74	RF1-1	8.66	9.66	RF1-1	8.62	9.63	RF1-1	8.65	9.69
RF1-2	8.70	9.75	RF1-2	8.66	9.67	RF1-2	8.62	9.63	RF1-2	8.66	9.69
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	8.67	9.68	RF1-1	8.67	9.68	RF1-1	8.63	9.61	RF1-1	8.65	9.69
RF1-2	8.67	9.68	RF1-2	8.67	9.69	RF1-2	8.63	9.61	RF1-2	8.65	9.69
Channel Frequency 3545.01MHz			Channel Frequency 3545.01MHz			Channel Frequency 3545.01MHz			Channel Frequency 3545.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	8.70	9.76	RF1-1	8.66	9.70	RF1-1	8.62	9.60	RF1-1	8.66	9.71
RF1-2	8.73	9.76	RF1-2	8.65	9.70	RF1-2	8.62	9.60	RF1-2	8.66	9.71

Table 36 Occupied Bandwidth (Band 77 NR 10 MHz Channel bandwidth)

Config L: 3700 Band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3705MHz			Channel Frequency 3705MHz			Channel Frequency 3705MHz			Channel Frequency 3705MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	8.68	9.70	RF1-3	8.71	9.71	RF1-3	8.61	9.63	RF1-3	8.66	9.71
RF1-4	8.68	9.70	RF1-4	8.71	9.71	RF1-4	8.61	9.63	RF1-4	8.66	9.71
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	8.68	9.73	RF1-3	8.70	9.72	RF1-3	8.59	9.58	RF1-3	8.69	9.74
RF1-4	8.67	9.73	RF1-4	8.70	9.71	RF1-4	8.59	9.58	RF1-4	8.70	9.74
Channel Frequency 3975MHz			Channel Frequency 3975MHz			Channel Frequency 3975MHz			Channel Frequency 3975MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	8.68	9.70	RF1-3	8.68	9.71	RF1-3	8.61	9.56	RF1-3	8.66	9.69
RF1-4	8.68	9.70	RF1-4	8.68	9.71	RF1-4	8.61	9.56	RF1-4	8.66	9.69

Table 37 Occupied Bandwidth (Band 77 NR 10 MHz Channel bandwidth)

Config M: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3459.99MHz			Channel Frequency 3459.99MHz			Channel Frequency 3459.99MHz			Channel Frequency 3459.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	18.36	19.88	RF1-1	18.39	19.92	RF1-1	18.46	19.86	RF1-1	18.39	19.85
RF1-2	18.37	19.88	RF1-2	18.40	19.88	RF1-2	18.46	19.85	RF1-2	18.39	19.85
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	18.38	19.89	RF1-1	18.37	19.95	RF1-1	18.47	19.89	RF1-1	18.39	19.87
RF1-2	18.38	19.89	RF1-2	18.37	19.93	RF1-2	18.48	19.91	RF1-2	18.39	19.87
Channel Frequency 3540MHz			Channel Frequency 3540MHz			Channel Frequency 3540MHz			Channel Frequency 3540MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	18.39	19.87	RF1-1	18.35	19.91	RF1-1	18.49	19.92	RF1-1	18.37	19.86
RF1-2	18.38	19.87	RF1-2	18.34	19.91	RF1-2	18.48	19.92	RF1-2	18.37	19.85

Table 38 Occupied Bandwidth (Band 77 NR 20 MHz Channel bandwidth)

Config:M 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3710.01MHz			Channel Frequency 3710.01MHz			Channel Frequency 3710.01MHz			Channel Frequency 3710.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	18.34	19.91	RF1-3	18.39	19.91	RF1-3	18.45	19.80	RF1-3	18.35	19.90
RF1-4	18.34	19.91	RF1-4	18.37	19.91	RF1-4	18.45	19.80	RF1-4	18.35	19.90
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	18.42	19.96	RF1-3	18.39	19.89	RF1-3	18.48	19.83	RF1-3	18.37	19.91
RF1-4	18.42	19.96	RF1-4	18.48	19.83	RF1-4	18.40	19.92	RF1-4	18.37	19.96
Channel Frequency 3969.99MHz			Channel Frequency 3969.99MHz			Channel Frequency 3969.99MHz			Channel Frequency 3969.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	18.41	19.96	RF1-3	18.39	19.89	RF1-3	18.47	19.86	RF1-3	18.39	19.91
RF1-4	18.41	19.96	RF1-4	18.39	19.89	RF1-4	18.47	19.86	RF1-4	18.39	19.91

Table 39 Occupied Bandwidth (Band 77 NR 20 MHz Channel bandwidth)

Config N: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3465MHz			Channel Frequency 3465MHz			Channel Frequency 3465MHz			Channel Frequency 3465MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	27.89	29.66	RF1-1	27.87	29.74	RF1-1	27.99	29.73	RF1-1	27.90	29.74
RF1-2	27.89	29.68	RF1-2	27.88	29.68	RF1-2	28.00	29.75	RF1-2	27.91	29.74
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	27.93	29.70	RF1-1	27.92	29.76	RF1-1	28.03	29.69	RF1-1	27.93	29.76
RF1-2	27.92	29.70	RF1-2	27.91	29.76	RF1-2	28.03	29.68	RF1-2	27.93	29.79
Channel Frequency 3534.99MHz			Channel Frequency 3534.99MHz			Channel Frequency 3534.99MHz			Channel Frequency 3534.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	27.91	29.70	RF1-1	27.91	29.77	RF1-1	28.02	29.68	RF1-1	27.92	29.78
RF1-2	27.91	29.70	RF1-2	27.90	29.77	RF1-2	28.02	29.67	RF1-2	27.92	29.78

Table 40 Occupied Bandwidth (Band 77 NR 30 MHz Channel bandwidth)

Config N: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3714.99MHz			Channel Frequency 3714.99MHz			Channel Frequency 3714.99MHz			Channel Frequency 3714.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	27.91	29.74	RF1-3	27.91	29.75	RF1-3	28.03	29.70	RF1-3	27.94	29.75
RF1-4	27.92	29.74	RF1-4	27.91	29.75	RF1-4	28.03	29.70	RF1-4	27.94	29.76
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	27.91	29.74	RF1-3	27.91	29.76	RF1-3	28.03	29.70	RF1-3	27.94	29.75
RF1-4	27.91	29.74	RF1-4	27.92	29.76	RF1-4	28.03	29.70	RF1-4	27.95	29.76
Channel Frequency 3965.01MHz			Channel Frequency 3965.01MHz			Channel Frequency 3965.01MHz			Channel Frequency 3965.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	27.90	29.76	RF1-3	27.91	29.76	RF1-3	28.02	29.66	RF1-3	27.93	29.75
RF1-4	27.91	29.76	RF1-4	27.91	29.76	RF1-4	28.02	29.66	RF1-4	27.93	29.76

Table 41 Occupied Bandwidth (Band 77 NR 30 MHz Channel bandwidth)

Config O: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3470.01MHz			Channel Frequency 3470.01MHz			Channel Frequency 3470.01MHz			Channel Frequency 3470.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	37.97	40.59	RF1-1	38.04	40.52	RF1-1	38.12	40.48	RF1-1	38.02	40.69
RF1-2	37.97	40.52	RF1-2	38.05	40.59	RF1-2	38.12	40.45	RF1-2	38.02	40.70
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	38.06	40.54	RF1-1	38.13	40.56	RF1-1	38.17	40.46	RF1-1	38.12	40.61
RF1-2	38.04	40.61	RF1-2	38.10	40.53	RF1-2	38.16	40.46	RF1-2	38.10	40.63
Channel Frequency 3530.01MHz			Channel Frequency 3530.01MHz			Channel Frequency 3530.01MHz			Channel Frequency 3530.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	38.03	40.61	RF1-1	38.07	40.56	RF1-1	38.12	40.47	RF1-1	38.05	40.65
RF1-2	38.05	40.61	RF1-2	38.09	40.56	RF1-2	38.14	40.47	RF1-2	38.06	40.70

Table 42 Occupied Bandwidth (Band 77 NR 40 MHz Channel bandwidth)

Config O: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3720MHz			Channel Frequency 3720MHz			Channel Frequency 3720MHz			Channel Frequency 3720MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	38.05	40.66	RF1-3	38.02	40.44	RF1-3	38.18	40.44	RF1-3	38.06	40.65
RF1-4	38.05	40.66	RF1-4	38.02	40.44	RF1-4	38.19	40.44	RF1-4	38.07	40.68
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	38.11	40.67	RF1-3	38.03	40.42	RF1-3	38.18	40.53	RF1-3	38.06	40.66
RF1-4	38.11	40.67	RF1-4	38.03	40.44	RF1-4	38.19	40.56	RF1-4	38.06	40.66
Channel Frequency 3960MHz			Channel Frequency 3960MHz			Channel Frequency 3960MHz			Channel Frequency 3960MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	38.06	40.65	RF1-3	38.01	40.39	RF1-3	38.17	40.47	RF1-3	38.04	40.64
RF1-4	38.05	40.65	RF1-4	38.01	40.42	RF1-4	38.17	40.47	RF1-4	38.04	40.64

Table 43 Occupied Bandwidth (Band 77 NR 40 MHz Channel bandwidth)

Config P: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3474.99MHz			Channel Frequency 3474.99MHz			Channel Frequency 3474.99MHz			Channel Frequency 3474.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	47.50	50.38	RF1-1	47.53	50.30	RF1-1	47.67	50.37	RF1-1	47.56	50.35
RF1-2	47.47	50.35	RF1-2	47.50	50.30	RF1-2	47.64	50.37	RF1-2	47.54	50.32
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	47.59	50.43	RF1-1	47.59	50.41	RF1-1	47.78	50.42	RF1-1	47.65	50.34
RF1-2	47.56	50.42	RF1-2	47.57	50.41	RF1-2	47.76	50.38	RF1-2	47.61	50.34
Channel Frequency 3525MHz			Channel Frequency 3525MHz			Channel Frequency 3525MHz			Channel Frequency 3525MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	47.50	50.42	RF1-1	47.55	50.39	RF1-1	47.68	50.42	RF1-1	47.61	50.37
RF1-2	47.52	50.48	RF1-2	47.56	50.35	RF1-2	47.70	50.42	RF1-2	47.62	50.40

Table 44 Occupied Bandwidth (Band 77 NR 50 MHz Channel bandwidth)

Config P: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3725.01MHz			Channel Frequency 3725.01MHz			Channel Frequency 3725.01MHz			Channel Frequency 3725.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	47.63	50.36	RF1-3	47.64	50.45	RF1-3	47.80	50.34	RF1-3	47.66	50.47
RF1-4	47.62	50.35	RF1-4	47.63	50.45	RF1-4	47.80	50.34	RF1-4	47.66	50.47
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	47.57	50.24	RF1-3	47.63	50.37	RF1-3	47.75	50.32	RF1-3	47.62	50.38
RF1-4	47.56	50.21	RF1-4	47.63	50.37	RF1-4	47.75	50.28	RF1-4	47.62	50.34
Channel Frequency 3954.99MHz			Channel Frequency 3954.99MHz			Channel Frequency 3954.99MHz			Channel Frequency 3954.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	47.62	50.40	RF1-3	47.63	50.31	RF1-3	47.80	50.37	RF1-3	47.63	50.52
RF1-4	47.61	50.39	RF1-4	47.63	50.31	RF1-4	47.79	50.37	RF1-4	47.64	50.52

Table 45 Occupied Bandwidth (Band 77 NR 50 MHz Channel bandwidth)

Config Q: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3480MHz			Channel Frequency 3480MHz			Channel Frequency 3480MHz			Channel Frequency 3480MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	57.84	60.50	RF1-1	57.81	60.55	RF1-1	57.88	60.45	RF1-1	57.79	60.55
RF1-2	57.81	60.50	RF1-2	57.79	60.55	RF1-2	57.86	60.45	RF1-2	57.76	60.55
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	57.92	60.52	RF1-1	57.89	60.55	RF1-1	57.96	60.45	RF1-1	57.86	60.53
RF1-2	57.88	60.49	RF1-2	57.86	60.55	RF1-2	57.93	60.45	RF1-2	57.83	60.53
Channel Frequency 3519.99MHz			Channel Frequency 3519.99MHz			Channel Frequency 3519.99MHz			Channel Frequency 3519.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	57.86	60.52	RF1-1	57.85	60.55	RF1-1	57.91	60.44	RF1-1	57.81	60.53
RF1-2	57.88	60.49	RF1-2	57.86	60.55	RF1-2	57.93	60.47	RF1-2	57.83	60.58

Table 46 Occupied Bandwidth (Band 77 NR 60 MHz Channel bandwidth)

Config Q: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3729.99MHz			Channel Frequency 3729.99MHz			Channel Frequency 3729.99MHz			Channel Frequency 3729.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	57.80	60.52	RF1-3	57.77	60.49	RF1-3	57.95	60.50	RF1-3	57.86	60.58
RF1-4	57.81	60.53	RF1-4	57.77	60.49	RF1-4	57.96	60.50	RF1-4	57.88	60.57
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	57.81	60.53	RF1-3	57.78	60.49	RF1-3	57.97	60.52	RF1-3	57.87	60.53
RF1-4	57.81	60.55	RF1-4	57.78	60.49	RF1-4	57.97	60.52	RF1-4	57.87	60.57
Channel Frequency 3950.01MHz			Channel Frequency 3950.01MHz			Channel Frequency 3950.01MHz			Channel Frequency 3950.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	57.79	60.51	RF1-3	57.76	60.52	RF1-3	57.95	60.50	RF1-3	57.85	60.52
RF1-4	57.78	60.51	RF1-4	57.75	60.52	RF1-4	57.94	60.50	RF1-4	57.85	60.52

Table 47 Occupied Bandwidth (Band 77 NR 60 MHz Channel bandwidth)

Config R: 3450–3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3485.01MHz			Channel Frequency 3485.01MHz			Channel Frequency 3485.01MHz			Channel Frequency 3485.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	67.39	70.37	RF1-1	67.39	70.26	RF1-1	67.49	70.13	RF1-1	67.45	70.34
RF1-2	67.33	70.36	RF1-2	67.33	70.25	RF1-2	67.44	70.13	RF1-2	67.39	70.33
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	67.45	70.34	RF1-1	67.45	70.27	RF1-1	67.55	70.20	RF1-1	67.51	70.33
RF1-2	67.41	70.33	RF1-2	67.42	70.27	RF1-2	67.51	70.20	RF1-2	67.47	70.30
Channel Frequency 3515.01MHz			Channel Frequency 3515.01MHz			Channel Frequency 3515.01MHz			Channel Frequency 3515.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	67.40	70.37	RF1-1	67.40	70.23	RF1-1	67.52	70.29	RF1-1	67.45	70.33
RF1-2	67.41	70.37	RF1-2	67.41	70.27	RF1-2	67.53	70.34	RF1-2	67.43	70.31

Table 48 Occupied Bandwidth (Band 77 NR 70 MHz Channel bandwidth)

Config R: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3735MHz			Channel Frequency 3735MHz			Channel Frequency 3735MHz			Channel Frequency 3735MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	67.43	70.30	RF1-3	67.40	70.36	RF1-3	67.60	70.18	RF1-3	67.55	70.37
RF1-4	67.43	70.30	RF1-4	67.40	70.36	RF1-4	67.59	70.18	RF1-4	67.55	70.40
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	67.41	70.30	RF1-3	67.39	70.32	RF1-3	67.60	70.16	RF1-3	67.54	70.41
RF1-4	67.42	70.30	RF1-4	67.39	70.37	RF1-4	67.59	70.12	RF1-4	67.55	70.43
Channel Frequency 3945MHz			Channel Frequency 3945MHz			Channel Frequency 3945MHz			Channel Frequency 3945MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	67.39	70.32	RF1-3	67.39	70.20	RF1-3	67.59	70.18	RF1-3	67.53	70.44
RF1-4	67.39	70.32	RF1-4	67.37	70.20	RF1-4	67.57	70.16	RF1-4	67.52	70.44

Table 49 Occupied Bandwidth (Band 77 NR 70 MHz Channel bandwidth)

Config S: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3489.99MHz			Channel Frequency 3489.99MHz			Channel Frequency 3489.99MHz			Channel Frequency 3489.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	77.67	82.46	RF1-1	77.75	82.46	RF1-1	78.03	82.49	RF1-1	77.63	82.42
RF1-2	77.60	82.44	RF1-2	77.67	82.42	RF1-2	77.97	82.39	RF1-2	77.54	82.41
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	77.75	82.44	RF1-1	77.86	82.50	RF1-1	78.11	82.44	RF1-1	77.70	82.46
RF1-2	77.68	82.44	RF1-2	77.79	82.49	RF1-2	78.05	82.44	RF1-2	77.63	82.46
Channel Frequency 3510MHz			Channel Frequency 3510MHz			Channel Frequency 3510MHz			Channel Frequency 3510MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	77.73	82.49	RF1-1	77.81	82.50	RF1-1	78.09	82.42	RF1-1	77.69	82.46
RF1-2	77.69	82.50	RF1-2	77.77	82.49	RF1-2	78.06	82.42	RF1-2	77.64	82.46

Table 50 Occupied Bandwidth (Band 77 NR 80 MHz Channel bandwidth)

Config S: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3740.01MHz			Channel Frequency 3740.01MHz			Channel Frequency 3740.01MHz			Channel Frequency 3740.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	77.83	82.52	RF1-3	77.74	82.46	RF1-3	78.18	82.41	RF1-3	77.87	82.52
RF1-4	77.83	82.52	RF1-4	77.76	82.46	RF1-4	78.17	82.39	RF1-4	77.87	82.52
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	77.76	82.44	RF1-3	77.72	82.55	RF1-3	78.11	82.38	RF1-3	77.87	82.47
RF1-4	77.80	82.57	RF1-4	77.74	82.44	RF1-4	78.10	82.33	RF1-4	77.86	82.52
Channel Frequency 3939.99MHz			Channel Frequency 3939.99MHz			Channel Frequency 3939.99MHz			Channel Frequency 3939.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	77.79	82.50	RF1-3	77.71	82.44	RF1-3	78.08	82.38	RF1-3	77.82	82.46
RF1-4	77.72	82.39	RF1-4	77.69	82.47	RF1-4	78.07	82.34	RF1-4	77.81	82.50

Table 51 Occupied Bandwidth (Band 77 NR 80 MHz Channel bandwidth)

Config T: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3495MHz			Channel Frequency 3495MHz			Channel Frequency 3495MHz			Channel Frequency 3495MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	87.67	92.48	RF1-1	87.72	92.44	RF1-1	87.96	92.37	RF1-1	87.56	92.55
RF1-2	87.59	92.46	RF1-2	87.66	92.40	RF1-2	87.87	92.37	RF1-2	87.47	92.55
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	87.69	92.46	RF1-1	87.75	92.48	RF1-1	88.00	92.40	RF1-1	87.59	92.58
RF1-2	87.62	92.46	RF1-2	87.69	92.42	RF1-2	87.92	92.40	RF1-2	87.52	92.60
Channel Frequency 3504.99MHz			Channel Frequency 3504.99MHz			Channel Frequency 3504.99MHz			Channel Frequency 3504.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	87.71	92.49	RF1-1	87.79	92.48	RF1-1	88.02	92.40	RF1-1	87.64	92.60
RF1-2	87.66	92.48	RF1-2	87.73	92.42	RF1-2	87.96	92.40	RF1-2	87.57	92.60

Table 52 Occupied Bandwidth (Band 77 NR 90 MHz Channel bandwidth)

Config T: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3744.99MHz			Channel Frequency 3744.99MHz			Channel Frequency 3744.99MHz			Channel Frequency 3744.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	87.68	92.49	RF1-3	87.65	92.48	RF1-3	88.17	92.57	RF1-3	87.73	92.66
RF1-4	87.69	92.49	RF1-4	87.63	92.51	RF1-4	88.16	92.51	RF1-4	87.73	92.60
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	87.68	92.46	RF1-3	87.62	92.46	RF1-3	88.13	92.57	RF1-3	87.72	92.62
RF1-4	87.68	92.49	RF1-4	87.62	92.53	RF1-4	88.13	92.51	RF1-4	87.72	92.58
Channel Frequency 3935.01MHz			Channel Frequency 3935.01MHz			Channel Frequency 3935.01MHz			Channel Frequency 3935.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	87.63	92.42	RF1-3	87.55	92.42	RF1-3	88.08	92.49	RF1-3	87.67	92.60
RF1-4	87.62	92.42	RF1-4	87.47	92.49	RF1-4	88.07	92.49	RF1-4	87.65	92.58

Table 53 Occupied Bandwidth (Band 77 NR 90 MHz Channel bandwidth)

Config U: 3450-3550 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz			Channel Frequency 3500.01MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-1	97.57	102.65	RF1-1	97.63	102.57	RF1-1	97.46	102.37	RF1-1	97.51	102.63
RF1-2	97.50	102.55	RF1-2	97.56	102.57	RF1-2	97.36	102.37	RF1-2	97.42	102.61

Table 54 Occupied Bandwidth (Band 77 NR 100 MHz Channel bandwidth)

Config U: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3750MHz			Channel Frequency 3750MHz			Channel Frequency 3750MHz			Channel Frequency 3750MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	97.62	102.65	RF1-3	97.57	102.65	RF1-3	97.45	102.45	RF1-3	97.63	102.53
RF1-4	97.63	102.71	RF1-4	97.58	102.69	RF1-4	97.46	102.47	RF1-4	97.64	102.53
Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz			Channel Frequency 3840MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	97.63	102.65	RF1-3	97.59	102.65	RF1-3	97.43	102.45	RF1-3	97.63	102.49
RF1-4	97.63	102.67	RF1-4	97.57	102.67	RF1-4	97.45	102.49	RF1-4	97.64	102.55
Channel Frequency 3930MHz			Channel Frequency 3930MHz			Channel Frequency 3930MHz			Channel Frequency 3930MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	97.58	102.63	RF1-3	97.50	102.65	RF1-3	97.33	102.43	RF1-3	97.58	102.47
RF1-4	97.55	102.63	RF1-4	97.49	102.63	RF1-4	97.32	102.41	RF1-4	97.56	102.47

Table 55 Occupied Bandwidth (Band 77 NR 100 MHz Channel bandwidth)

Config W: 3700 band

Test Model 1.1 Modulation QPSK			Test Model 3.1 Modulation 64QAM			Test Model 3.2 Modulation 16QAM			Test Model 3.1a Modulation 256QAM		
Channel Frequency 3750MHz/ 3849.99MHz			Channel Frequency 3750MHz/ 3849.99MHz			Channel Frequency 3750MHz/ 3849.99MHz			Channel Frequency 3750MHz/ 3849.99MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	196.55	204.91	RF1-3	196.57	205.07	RF1-3	196.07	204.63	RF1-3	196.43	204.71
RF1-4	196.58	204.91	RF1-4	196.63	204.99	RF1-4	196.24	204.51	RF1-4	196.47	204.83
Channel Frequency 3789.99MHz/ 3889.98MHz			Channel Frequency 3789.99MHz/ 3889.98MHz			Channel Frequency 3789.99MHz/ 3889.98MHz			Channel Frequency 3789.99MHz/ 3889.98MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	Value 99% (MHz)	Value 26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	196.50	204.79	RF1-3	196.48	204.95	RF1-3	196.00	204.63	RF1-3	196.40	204.71
RF1-4	196.53	204.91	RF1-4	196.51	204.99	RF1-4	196.07	204.51	RF1-4	192.36	204.71
Channel Frequency 3830.01MHz/ 3930MHz			Channel Frequency 3830.01MHz/ 3930MHz			Channel Frequency 3830.01MHz/ 3930MHz			Channel Frequency 3830.01MHz/ 3930MHz		
Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)	Tx Port	99% (MHz)	26dB (MHz)
RF1-3	196.42	204.79	RF1-3	196.39	204.87	RF1-3	195.85	204.63	RF1-3	196.33	204.83
RF1-4	196.53	204.91	RF1-4	196.51	205.03	RF1-4	196.07	204.51	RF1-4	196.36	204.83

Table 56 Occupied Bandwidth (Band 77 NR 100+100 MHz Channel bandwidth, Contiguous spectrum)

The occupied bandwidth levels were found to be compliant with the manufacturer's specifications and with all requirements of the FCC rules.

4.4 Test No. 4: Spurious Emissions at Antenna Terminals (§ 2.1051, § 2.1057, § 24.238, § 27.53)

4.4.1 Limits

FCC §24.238(a) for PCS, §27.53(h)(1) for AWS, 27.53(l) for §3700 band and §27.53(n) for 3450-3550 MHz band. The power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts.

The attenuation shall be not less than $43 + 10 \log (P)$ dB (P = transmitter power in Watts).

The compliance limit was calculated in the following way:

Maximum transmitter output power [W]: P

Maximum transmitter output power [dBm]: $30 + 10 \log_{10} P$ (conversion from W to dBm)

Attenuation required by FCC: $43 + 10 \log_{10} P$

Compliance limit = Maximum transmitter output power - Required attenuation
 $= 30 + 10 \log_{10} P - (43 + 10 \log_{10} P) = \underline{-13 \text{ dBm}}$

4.4.2 Test Procedure and Results

The tests were carried out in accordance with § 27.53, 24.238.

The AWHFIQB all antenna ports were selected for the unwanted emission testing based on ANSI C63.26-2015 clauses 5.2.5.3, 5.7.2i and 6.4.

The external attenuation (connection loss of the set up) is already added in the results.

The following tables summarize the worst case detected emission levels (see screenshots in section 5.2.4 for details).

Measured laboratory room temperature and humidity during the tests				
Date	Temperature Min-Max:		Humidity Min-Max:	
28.4.2025 – 26.6.2025	22.1 °C	26.4 °C	7.4 RH%	48.9 RH%

Config A Lower band edge: B25

Carrier Frequency: 1932.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1929 - 1930	1930	-43.99	-16.01	27.98	Pass
16QAM-Modulation TX port RF2-2					
1929 - 1930	1930	-43.99	-16.01	27.98	Pass

Table 57 Spurious Emissions (Lower band edge) (Band 25 LTE5 MHz CH BW)

B66

Carrier Frequency: 2112.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-3					
2109 - 2110	2110	-50.60	-16.01	34.59	Pass
16QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-47.30	-16.01	31.29	Pass

Table 58 Spurious Emissions (Lower band edge) (Band 66 LTE5 MHz CH BW)

Config A Upper band edge: B25

Carrier Frequency: 1992.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-51.94	-16.01	35.93	Pass
QPSK-Modulation TX port RF2-2					
1995 - 1996	1995.25	-30.94	-16.01	14.93	Pass

Table 59 Spurious Emissions (Upper band edge) (Band 25 LTE5 MHz CH BW)

B66

Carrier Frequency: 2197.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2200 - 2201	2200.01	-51.17	-16.01	35.16	Pass
16QAM-Modulation TX port RF2-4					
2200 - 2201	2200.01	-51.15	-16.01	35.14	Pass

Table 60 Spurious Emissions (Upper band edge) (Band 66 LTE5 MHz CH BW)

Config B Lower band edge: B25

Carrier Frequency: 1935MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-1					
1929 - 1930	1930	-40.82	-16.01	24.81	Pass
QPSK-Modulation TX port RF2-2					
1929 - 1930	1929.93	-24.65	-16.01	8.64	Pass

Table 61 Spurious Emissions (Lower band edge) (Band 25 LTE10 MHz CH BW)

B66

Carrier Frequency: 2115MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2109 - 2110	2110	-48.79	-16.01	32.78	Pass
QPSK-Modulation TX port RF2-4					
2109 - 2110	2110	-47.51	-16.01	31.50	Pass

Table 62 Spurious Emissions (Lower band edge) (Band 66 LTE10 MHz CH BW)

Config B Upper band edge: B25

Carrier Frequency: 1990MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-1					
1995 - 1996	1995.17	-30.10	-16.01	14.09	Pass
256QAM-Modulation TX port RF2-4					
1995 - 1996	1995.01	-49.51	-16.01	33.50	Pass

Table 63 Spurious Emissions (Upper band edge) (Band 25 LTE10 MHz CH BW)

B66

Carrier Frequency: 2195MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2200 - 2201	2200.22	-30.82	-16.01	14.81	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.37	-32.68	-16.01	16.67	Pass

Table 64 Spurious Emissions (Upper band edge) (Band 66 LTE10 MHz CH BW)

Config C Lower band edge: B25

Carrier Frequency: 1937.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1929 - 1930	1930	-41.51	-16.01	-50	Pass
16QAM-Modulation TX port RF2-2					
1929 - 1930	1930	-41.73	-16.01	25.72	Pass

Table 65 Spurious Emissions (Lower band edge) (Band 25 LTE15 MHz CH BW)

B66

Carrier Frequency: 2117.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
2109 - 2110	2110	-45.19	-16.01	29.18	Pass
16QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-45.78	-16.01	29.77	Pass

Table 66 Spurious Emissions (Lower band edge) (Band 66 LTE15 MHz CH BW)

Config C Upper band edge: B25

Carrier Frequency: 1987.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-42.16	-16.01	26.15	Pass
16QAM-Modulation TX port RF2-2					
1995 - 1996	1995.01	-42.00	-16.01	25.99	Pass

Table 67 Spurious Emissions (Upper band edge) (Band 25 LTE15 MHz CH BW)

B66

Carrier Frequency: 2192.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2200 - 2201	2200.14	-29.09	-16.01	13.08	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.01	-42.28	-16.01	26.27	Pass

Table 68 Spurious Emissions (Upper band edge) (Band 66 LTE15 MHz CH BW)

Config D Lower band edge: B25

Carrier Frequency: 1940 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-1					
1929 - 1930	1930	-39.30	-16.01	23.29	Pass
QPSK-Modulation TX port RF2-2					
1929 - 1930	1930	-43.64	-16.01	27.63	Pass

Table 69 Spurious Emissions (Lower band edge) (Band 25 LTE20 MHz CH BW)

B66

Carrier Frequency: 2120 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
2109 - 2110	2110	-48.60	-16.01	-3	Pass
64QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-49.12	-16.01	33.11	Pass

Table 70 Spurious Emissions (Lower band edge) (Band 66 LTE20 MHz CH BW)

Config D Upper band edge: B25

Carrier Frequency: 1985 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-47.24	-16.01	31.23	Pass
QPSK-Modulation TX port RF2-2					
1995 - 1996	1995.01	-48.07	-16.01	32.06	Pass

Table 71 Spurious Emissions (Upper band edge) (Band 25 LTE20 MHz CH BW)

B66

Carrier Frequency: 2190 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2200 - 2201	2200.01	-47.71	-16.01	31.7	Pass
16QAM-Modulation TX port RF2-4					
2200 - 2201	2200.01	-46.78	-16.01	30.77	Pass

Table 72 Spurious Emissions (Upper band edge) (Band 66 LTE20 MHz CH BW)

Config E Lower band edge: B25

Carrier Frequency: 1932.5MHz/1992.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-1					
1929 - 1930	1930	-31.89	-16.01	15.88	Pass
QPSK-Modulation TX port RF2-2					
1929 - 1930	1930	-41.45	-16.01	25.44	Pass

Table 73 Spurious Emissions (Lower band edge) (Band 25 LTE5+5MHz CH BW Non contiguous spectrum)

B66

Carrier Frequency: 2112.5MHz/ 2197.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
2109 - 2110	2110	-40.90	-16.01	24.89	Pass
256QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-43.08	-16.01	27.07	Pass

Table 74 Spurious Emissions (Lower band edge) (Band 66 LTE5+5MHz CH BW Non contiguous spectrum)

Config E Upper band edge: B25

Carrier Frequency: 1932.5MHz/1992.5MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-51.06	-16.01	35.05	Pass
QPSK-Modulation TX port RF2-2					
1995 - 1996	1995.02	-51.13	-16.01	35.12	Pass

Table 75 Spurious Emissions (Upper band edge) (Band 25 LTE5+5MHz CH BW Non contiguous spectrum)

B66

Carrier Frequency: 2112.5MHz/ 2197.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-3					
2200 - 2201	2200.05	-49.55	-16.01	33.54	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.24	-47.31	-16.01	31.30	Pass

Table 76 Spurious Emissions (Upper band edge) (Band 66 LTE5+5MHz CH BW Non contiguous spectrum)

Config F Lower band edge: B25

Carrier Frequency: 1932.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-1					
1929 - 1930	1930	-44.44	-16.01	-15	Pass
64QAM-Modulation TX port RF2-4					
1929 - 1930	1930	-43.77	-16.01	27.76	Pass

Table 77 Spurious Emissions (Lower band edge) (Band 25 NR5 MHz CH BW)

B66

Carrier Frequency: 2112.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
2109 - 2110	2110	-42.26	-16.01	26.25	Pass
64QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-43.26	-16.01	27.25	Pass

Table 78 Spurious Emissions (Lower band edge) (Band 66 NR5 MHz CH BW)

Config F Upper band edge: B25

Carrier Frequency: 1992.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-51.43	-16.01	35.42	Pass
QPSK-Modulation TX port RF2-2					
1995 - 1996	1995.01	-51.98	-16.01	35.97	Pass

Table 79 Spurious Emissions (Upper band edge) (Band 25 NR5 MHz CH BW)

B66

Carrier Frequency: 2197.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
2200 - 2201	2200.01	-51.19	-16.01	35.18	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.12	-45.16	-16.01	29.15	Pass

Table 80 Spurious Emissions (Upper band edge) (Band 66 NR5 MHz CH BW)

Config G Lower band edge: B25

Carrier Frequency: 1935 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1929 - 1930	1929.99	-43.92	-16.01	27.91	Pass
QPSK-Modulation TX port RF2-2					
1929 - 1930	1929.99	-42.93	-16.01	26.92	Pass

Table 81 Spurious Emissions (Lower band edge) (Band 25 NR10 MHz CH BW)

B66

Carrier Frequency: 2115 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2109 - 2110	2109.98	-27.60	-16.01	11.59	Pass
QPSK-Modulation TX port RF2-4					
2109 - 2110	2109.95	-27.74	-16.01	11.73	Pass

Table 82 Spurious Emissions (Lower band edge) (Band 66 NR10 MHz CH BW)

Config G Upper band edge: B25

Carrier Frequency: 1990 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-48.98	-16.01	32.9735	Pass
QPSK-Modulation TX port RF2-2					
1995 - 1996	1995.37	-22.97	-16.01	6.96	Pass

Table 83 Spurious Emissions (Upper band edge) (Band 25 NR10 MHz CH BW)

B66

Carrier Frequency: 2195 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-3					
2200 - 2201	2200.01	-50.44	-16.01	34.43	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.27	-28.37	-16.01	12.36	Pass

Table 84 Spurious Emissions (Upper band edge) (Band 66 NR10 MHz CH BW)

Config H Lower band edge: B25

Carrier Frequency: 1937.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1929 - 1930	1930	-36.74	-16.01	20.73	Pass
QPSK-Modulation TX port RF2-2					
1929 - 1930	1930	-36.19	-16.01	20.18	Pass

Table 85 Spurious Emissions (Lower band edge) (Band 25 NR15 MHz CH BW)

B66

Carrier Frequency: 2117.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2109 - 2110	2109.58	-27.30	-16.01	11.29	Pass
256QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-36.72	-16.01	20.71	Pass

Table 86 Spurious Emissions (Lower band edge) (Band 66 NR15 MHz CH BW)

Config H Upper band edge: B25

Carrier Frequency: 1987.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-36.88	-16.01	20.87	Pass
QPSK-Modulation TX port RF2-2					
1995 - 1996	1995.01	-28.81	-16.01	12.80	Pass

Table 87 Spurious Emissions (Upper band edge) (Band 25 NR15 MHz CH BW)

B66

Carrier Frequency: 2192.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2200 - 2201	2200.11	-18.64	-16.01	2.63	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.01	-29.99	-16.01	12.98	Pass

Table 88 Spurious Emissions (Upper band edge) (Band 66 NR15 MHz CH BW)

Config I Lower band edge: B25

Carrier Frequency: 1940 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1929 - 1930	1929.99	-40.74	-16.01	24.73	Pass
QPSK-Modulation TX port RF2-2					
1929 - 1930	1930	-42.18	-16.01	26.17	Pass

Table 89 Spurious Emissions (Lower band edge) (Band 25 NR20 MHz CH BW)

B66

Carrier Frequency: 2120 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2109 - 2110	2109.98	-28.36	-16.01	12.35	Pass
QPSK-Modulation TX port RF2-4					
2109 - 2110	2110	-41.12	-16.01	25.11	Pass

Table 90 Spurious Emissions (Lower band edge) (Band 66 NR20 MHz CH BW)

Config I Upper band edge: B25

Carrier Frequency: 1985 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-42.73	-16.01	26.72	Pass
64QAM-Modulation TX port RF2-2					
1995 - 1996	1995.01	-42.46	-16.01	26.45	Pass

Table 91 Spurious Emissions (Upper band edge) (Band 25 NR20 MHz CH BW)

B66

Carrier Frequency: 2190 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
2200 - 2201	2200.01	-42.01	-16.01	26.00	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.08	-31.25	-16.01	15.25	Pass

Table 92 Spurious Emissions (Upper band edge) (Band 66 NR20 MHz CH BW)

Config J Lower band edge: B25

Carrier Frequency: 1942.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1929 - 1930	1930	-37.43	-16.01	21.42	Pass
64QAM-Modulation TX port RF2-2					
1929 - 1930	1930	-36.13	-16.01	20.12	Pass

Table 93 Spurious Emissions (Lower band edge) (Band 25 NR25 MHz CH BW)

B66

Carrier Frequency: 2122.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2109 - 2110	2109.98	-27.14	-16.01	11.13	Pass
16QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-35.66	-16.01	19.65	Pass

Table 94 Spurious Emissions (Lower band edge) (Band 66 NR25 MHz CH BW)

Config J Upper band edge: B25

Carrier Frequency: 1982.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1995 - 1996	1995.01	-35.95	-16.01	19.94	Pass
QPSK-Modulation TX port RF2-2					
1995 - 1996	1995.02	-30.02	-16.01	14.01	Pass

Table 95 Spurious Emissions (Upper band edge) (Band 25 NR25 MHz CH BW)

B66

Carrier Frequency: 2187.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
2200 - 2201	2200.01	-36.71	-16.01	20.70	Pass
QPSK-Modulation TX port RF2-4					
2200 - 2201	2200.01	-27.39	-16.01	11.38	Pass

Table 96 Spurious Emissions (Upper band edge) (Band 66 NR25 MHz CH BW)

Config K Lower band edge: B25

Carrier Frequency: 1945 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
1929 - 1930	1929.99	-40.68	-16.01	24.67	Pass
256QAM-Modulation TX port RF2-2					
1929 - 1930	1930	-36.13	-16.01	20.12	Pass

Table 97 Spurious Emissions (Lower band edge) (Band 25 NR30 MHz CH BW)

B66

Carrier Frequency: 2125 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2109 - 2110	2109.98	-27.66	-16.01	11.65	Pass
256QAM-Modulation TX port RF2-4					
2109 - 2110	2110	-38.72	-16.01	22.71	Pass

Table 98 Spurious Emissions (Lower band edge) (Band 66 NR30 MHz CH BW)

Config K Upper band edge: B25

Carrier Frequency: 1980 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-1					
1995 - 1996	1995.02	-40.73	-16.01	24.72	Pass
256QAM-Modulation TX port RF2-2					
1995 - 1996	1995.01	-40.15	-16.01	24.14	Pass

Table 99 Spurious Emissions (Upper band edge) (Band 25 NR30 MHz CH BW)

B66

Carrier Frequency: 2185 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
2200 - 2201	2200.02	-40.04	-16.01	24.03	Pass
64QAM-Modulation TX port RF2-4					
2200 - 2201	2200.01	-40.47	-16.01	24.46	Pass

Table 100 Spurious Emissions (Upper band edge) (Band 66 NR30 MHz CH BW)

Config L 3450-3550 band

Carrier Frequency: 3455.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3449 - 3450	3450	-44.99	-19.01	25.98	Pass
16QAM-Modulation TX port RF1-2					
3449 - 3450	3449.99	-39.45	-19.01	20.44	Pass

Table 101 Spurious Emissions (Lower band edge) (Band 77 NR10 MHz CH BW)

3700band

Carrier Frequency: 3705 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
3699 - 3700	3699.97	-42.26	-19.01	23.25	Pass
256QAM-Modulation TX port RF1-4					
3699 - 3700	3699.97	-43.04	-19.01	21	Pass

Table 102 Spurious Emissions (Lower band edge) (Band 77 NR10 MHz CH BW)

Config L 3450-3550 band

Carrier Frequency: 3545.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550.01	-41.14	-19.01	22.13	Pass
QPSK-Modulation TX port RF1-2					
3550 - 3551	3550.01	-44.80	-19.01	25.79	Pass

Table 103 Spurious Emissions (Upper band edge) (Band 77 NR10 MHz CH BW)

3700 band

Carrier Frequency: 3975 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-3					
3980 - 3981	3980.01	-44.66	-19.01	25.65	Pass
64QAM-Modulation TX port RF1-4					
3980 - 3981	3980.01	-44.55	-19.01	25.54	Pass

Table 104 Spurious Emissions (Upper band edge) (Band 77 NR10 MHz CH BW)

Config M 3450-3550 band

Carrier Frequency: 3459.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-1					
3449 - 3450	3449.99	-45.82	-19.01	26.81	Pass
256QAM-Modulation TX port RF1-2					
3449 - 3450	3450	-40.50	-19.01	21.49	Pass

Table 105 Spurious Emissions (Lower band edge) (Band 77 NR20 MHz CH BW)

3700 band

Carrier Frequency: 3710.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3699 - 3700	3700	-42.93	-19.01	23.92	Pass
64QAM-Modulation TX port RF1-4					
3699 - 3700	3700	-42.92	-19.01	23.91	Pass

Table 106 Spurious Emissions (Lower band edge) (Band 77 NR20 MHz CH BW)

Config M 3450-3550 band

Carrier Frequency: 3540 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-1					
3550 - 3551	3550.01	-41.67	-19.01	22.66	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.01	-41.52	-19.01	22.51	Pass

Table 107 Spurious Emissions (Upper band edge) (Band 77 NR20 MHz CH BW)

3700 band

Carrier Frequency: 3669.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.01	-43.29	-19.01	24.28	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.01	-42.47	-19.01	23.46	Pass

Table 108 Spurious Emissions (Upper band edge) (Band 77 NR20 MHz CH BW)

Config N 3450-3550 band

Carrier Frequency: 3465 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-1					
3449 - 3450	3450	-41.32	-19.01	22.31	Pass
64QAM-Modulation TX port RF1-2					
3449 - 3450	3450	-41.63	-19.01	22.62	Pass

Table 109 Spurious Emissions (Lower band edge) (Band 77 NR30 MHz CH BW)

3700 band

Carrier Frequency: 3714.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-3					
3699 - 3700	3700	-39.57	-19.01	20.56	Pass
QPSK-Modulation TX port RF1-4					
3699 - 3700	3700	-39.52	-19.01	20.51	Pass

Table 110 Spurious Emissions (Lower band edge) (Band 77 NR30 MHz CH BW)

Config N 3450-3550 band

Carrier Frequency: 3534.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550.01	-38.84	-19.01	19.83	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.01	-38.35	-19.01	19.34	Pass

Table 111 Spurious Emissions (Upper band edge) (Band 77 NR30 MHz CH BW)

3700 band

Carrier Frequency: 3965.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.01	-39.02	-19.01	20.01	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.01	-38.91	-19.01	19.90	Pass

Table 112 Spurious Emissions (Upper band edge) (Band 77 NR30 MHz CH BW)

Config O Lower band edge: 3450-3550 band

Carrier Frequency: 3470.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3449 - 3450	3449.99	-33.04	-19.01	14.03	Pass
16QAM-Modulation TX port RF1-2					
3449 - 3450	3449.99	-32.89	-19.01	13.88	Pass

Table 113 Spurious Emissions (Lower band edge) (Band 77 NR40 MHz CH BW)

3700 band

Carrier Frequency: 3720 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
3699 - 3700	3699.99	-31.42	-19.01	12.41	Pass
256QAM-Modulation TX port RF1-4					
3699 - 3700	3699.99	-31.22	-19.01	12.21	Pass

Table 114 Spurious Emissions (Lower band edge) (Band 77 NR40 MHz CH BW)

Config O Upper band edge: 3450-3550 band

Carrier Frequency: 3530.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-1					
3550 - 3551	3550.02	-30.34	-19.01	11.33	Pass
QPSK-Modulation TX port RF1-2					
3550 - 3551	3550.02	-30.23	-19.01	11.22	Pass

Table 115 Spurious Emissions (Upper band edge) (Band 77 NR40 MHz CH BW)

3700 band

Carrier Frequency: 3960 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.02	-30.80	-19.01	11.79	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.02	-30.56	-19.01	11.55	Pass

Table 116 Spurious Emissions (Upper band edge) (Band 77 NR40 MHz CH BW)

Config P Lower band edge: 3450-3550 band

Carrier Frequency: 3474.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3449 - 3450	3450	-35.19	-19.01	16.18	Pass
QPSK-Modulation TX port RF1-2					
3449 - 3450	3450	-35.79	-19.01	16.78	Pass

Table 117 Spurious Emissions (Lower band edge) (Band 77 NR50 MHz CH BW)

3700 band

Carrier Frequency: 3725.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3699 - 3700	3700	-36.05	-19.01	17.04	Pass
QPSK-Modulation TX port RF1-4					
3699 - 3700	3699.99	-35.70	-19.01	16.69	Pass

Table 118 Spurious Emissions (Lower band edge) (Band 77 NR50 MHz CH BW)

Config P Upper band edge: 3450-3550 band

Carrier Frequency: 3525 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550	-34.52	-19.01	15.51	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.01	-34.57	-19.01	15.56	Pass

Table 119 Spurious Emissions (Upper band edge) (Band 77 NR50 MHz CH BW)

3700 band

Carrier Frequency: 3954.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.01	-36.06	-19.01	17.05	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.01	-35.63	-19.01	16.62	Pass

Table 120 Spurious Emissions (Upper band edge) (Band 77 NR50 MHz CH BW)

Config Q Lower band edge: 3450-3550 band

Carrier Frequency: 3480 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3449 - 3450	3449.5	-24.95	-19.01	5.94	Pass
QPSK-Modulation TX port RF1-2					
3449 - 3450	3449.5	-24.90	-19.01	5.89	Pass

Table 121 Spurious Emissions (Lower band edge) (Band 77 NR60 MHz CH BW)

3700 band

Carrier Frequency: 3729.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3699 - 3700	3699.5	-23.74	-19.01	4.73	Pass
64QAM-Modulation TX port RF1-4					
3699 - 3700	3699.5	-23.49	-19.01	4.48	Pass

Table 122 Spurious Emissions (Lower band edge) (Band 77 NR60 MHz CH BW)

Config Q Upper band edge: 3450-3550 band

Carrier Frequency: 3519.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550.5	-23.31	-19.01	4.09	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.5	-23.25	-19.01	4.24	Pass

Table 123 Spurious Emissions (Upper band edge) (Band 77 NR60 MHz CH BW)

3700 band

Carrier Frequency: 3950.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.5	-23.40	-19.01	4.39	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.5	-23.11	-19.01	4.10	Pass

Table 124 Spurious Emissions (Upper band edge) (Band 77 NR60 MHz CH BW)

Config R Lower band edge: 3450-3550 band

Carrier Frequency: 3485.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3449 - 3450	3449.5	-30.94	-19.01	11.93	Pass
16QAM-Modulation TX port RF1-2					
3449 - 3450	3449.5	-30.80	-19.01	11.79	Pass

Table 125 Spurious Emissions (Lower band edge) (Band 77 NR70 MHz CH BW)

3700 band

Carrier Frequency: 3735 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3699 - 3700	3699.5	-29.60	-19.01	10.59	Pass
64QAM-Modulation TX port RF1-4					
3699 - 3700	3699.5	-29.42	-19.01	10.41	Pass

Table 126 Spurious Emissions (Lower band edge) (Band 77 NR70 MHz CH BW)

Config R Upper band edge: 3450-3550 band

Carrier Frequency: 3515.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550.5	-27.90	-19.01	8.89	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.5	-27.81	-19.01	8.80	Pass

Table 127 Spurious Emissions (Upper band edge) (Band 77 NR70 MHz CH BW)

3700 band

Carrier Frequency: 3945 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.5	-29.18	-19.01	10.17	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.5	-28.98	-19.01	9.97	Pass

Table 128 Spurious Emissions (Upper band edge) (Band 77 NR70 MHz CH BW)

Config S Lower band edge: 3450-3550 band

Carrier Frequency: 3489.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3449 - 3450	3449.5	-29.40	-19.01	10.39	Pass
QPSK-Modulation TX port RF1-2					
3449 - 3450	3449.5	-29.28	-19.01	10.27	Pass

Table 129 Spurious Emissions (Lower band edge) (Band 77 NR80 MHz CH BW)

3700 band

Carrier Frequency: 3740.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3699 - 3700	3699.5	-29.13	-19.01	10.12	Pass
64QAM-Modulation TX port RF1-4					
3699 - 3700	3699.5	-28.87	-19.01	9.86	Pass

Table 130 Spurious Emissions (Lower band edge) (Band 77 NR80 MHz CH BW)

Config S Upper band edge: 3450-3550 band

Carrier Frequency: 3510 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550.5	-27.50	-19.01	8.49	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.5	-27.45	-19.01	8.44	Pass

Table 131 Spurious Emissions (Upper band edge) (Band 77 NR80 MHz CH BW)

3700 band

Carrier Frequency: 3939.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.5	-28.66	-19.01	9.65	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.5	-28.40	-19.01	9.39	Pass

Table 132 Spurious Emissions (Upper band edge) (Band 77 NR80 MHz CH BW)

Config T Lower band edge: 3450-3550 band

Carrier Frequency: 3495 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-1					
3449 - 3450	3449.5	-28.87	-19.01	9.86	Pass
QPSK-Modulation TX port RF1-2					
3449 - 3450	3449.5	-28.76	-19.01	9.75	Pass

Table 133 Spurious Emissions (Lower band edge) (Band 77 NR90 MHz CH BW)

3700 band

Carrier Frequency: 3744.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3699 - 3700	3699.5	-27.64	-19.01	8.63	Pass
256QAM-Modulation TX port RF1-4					
3699 - 3700	3699.5	-27.58	-19.01	8.57	Pass

Table 134 Spurious Emissions (Lower band edge) (Band 77 NR90 MHz CH BW)

Config T Upper band edge: 3450-3550 band

Carrier Frequency: 3504.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550.5	-27.11	-19.01	8.10	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.5	-27.03	-19.01	8.02	Pass

Table 135 Spurious Emissions (Upper band edge) (Band 77 NR90 MHz CH BW)

3700 band

Carrier Frequency: 3935.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980 - 3981	3980.5	-27.24	-19.01	8.23	Pass
16QAM-Modulation TX port RF1-4					
3980 - 3981	3980.5	-26.98	-19.01	7.97	Pass

Table 136 Spurious Emissions (Upper band edge) (Band 77 NR90 MHz CH BW)

Config U Lower band edge: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3445 - 3450	3449.5	-28.36	-19.01	9.35	Pass
16QAM-Modulation TX port RF1-2					
3445 - 3450	3449.5	-28.28	-19.01	9.27	Pass

Table 137 Spurious Emissions (Lower band edge) (Band 77 NR100 MHz CH BW)

3700 band

Carrier Frequency: 3750 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3699 - 3700	3699.5	-27.02	-19.01	8.01	Pass
64QAM-Modulation TX port RF1-4					
3699 - 3700	3699.5	-26.86	-19.01	7.85	Pass

Table 138 Spurious Emissions (Lower band edge) (Band 77 NR100 MHz CH BW)

Config U Upper band edge: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
3550 - 3551	3550.5	-25.47	-19.01	6.46	Pass
16QAM-Modulation TX port RF1-2					
3550 - 3551	3550.5	-25.42	-19.01	6.41	Pass

Table 139 Spurious Emissions (Upper band edge) (Band 77 NR100 MHz CH BW)

3700 band

Carrier Frequency: 3930 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
3980- 3981	3980.5	-26.71	-19.01	7.70	Pass
16QAM-Modulation TX port RF1-4					
3980- 3981	3980.5	-26.48	-19.01	7.47	Pass

Table 140 Spurious Emissions (Upper band edge) (Band 77 NR100 MHz CH BW)

Config V Lower band edge: 3450-3550 band

Carrier Frequency: 3455.01MHz / 3545.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-1					
3449 - 3450	3450	-48.86	-19.01	29.83	Pass
16QAM-Modulation TX port RF1-2					
3449 - 3450	3450	-48.84	-19.01	29.83	Pass

Table 141 Spurious Emissions (Lower band edge) (Band 77 NR10MHz+10MHz CH BW non contiguous spectrum)

3700 band

Carrier Frequency: 3705MHz / 3834.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-3					
3699 - 3700	3700	-40.97	-19.01	21.96	Pass
64QAM-Modulation TX port RF1-4					
3699 - 3700	3699.67	-45.71	-19.01	26.70	Pass

Table 142 Spurious Emissions (Lower band edge) (Band 77 NR10MHz+10MHz CH BW non contiguous spectrum)

Config V: Upper band edge: 3450-3550 band

Carrier Frequency: 3455.01MHz / 3545.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-1					
3550 - 3551	3550.01	-45.24	-19.01	26.24	Pass
QPSK-Modulation TX port RF1-2					
3550 - 3551	3550.01	-45.85	-19.01	26.84	Pass

Table 143 Spurious Emissions (Upper band edge) (Band 77 NR10MHz+10MHz CH BW non contiguous spectrum)

3700 band

Carrier Frequency: 3845.01MHz /3975 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3980 - 3981	3980.01	-50.22	-19.01	31.21	Pass
QPSK-Modulation TX port RF1-4					
3980 - 3981	3980.01	-48.38	-19.01	29.37	Pass

Table 144 Spurious Emissions (Upper band edge) (Band 77 NR10MHz+10MHz CH BW non contiguous spectrum)

Config W Lower band edge: N77 3700

Carrier Frequency: 3750MHz / 3849.99 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3699 - 3700	3699	-43.10	-19.01	24.09	Pass
16QAM-Modulation TX port RF1-4					
3699 - 3700	3699	-43.28	-19.01	24.27	Pass

Table 145 Spurious Emissions (Lower band edge) (Band 77 NR100+100 MHz CH BW)

Config W Upper band edge: N77 3700

Carrier Frequency: 3830.01MHz / 3930 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
3980 - 3981	3981	-44.52	-19.01	25.51	Pass
64QAM-Modulation TX port RF1-4					
3980 - 3981	3981	-44.06	-19.01	25.05	Pass

Table 146 Spurious Emissions (Upper band edge) (Band 77 NR100+100 MHz CH BW)

Config A Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
0.009 – 19950	9695.79	-43.63	-16.01	27.62	Pass
256QAM-Modulation TX port RF2-2					
0.009 – 19950	9714.29	-43.68	-16.01	27.67	Pass

Table 147 Spurious Emissions at middle channel (Band 25 LTE5 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-3					
0.009 – 22000	7999	-47.36	-16.01	31.35	Pass
256QAM-Modulation TX port RF2-4					
0.009 – 22000	2216.45	-46.75	-16.01	30.74	Pass

Table 148 Spurious Emissions at middle channel (Band 66 LTE5 MHz Channel BW)

Config B Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-1					
0.009 – 19950	9717.29	-43.05	-16.01	23	Pass
256QAM-Modulation TX port RF2-2					
0.009 – 19950	9714.79	-43.04	-16.01	24	Pass

Table 149 Spurious Emissions at middle channel (Band 25 LTE10 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
0.009 – 22000	7995.5	-47.37	-16.01	31.36	Pass
QPSK-Modulation TX port RF2-4					
0.009 – 22000	7995.5	-47.35	-16.01	31.34	Pass

Table 150 Spurious Emissions at middle channel (Band 66 LTE10 MHz Channel BW)

Config C Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-1					
0.009 – 19950	9703.29	-43.67	-16.01	27.66	Pass
256QAM-Modulation TX port RF2-2					
0.009 – 19950	9713.79	-43.55	-16.01	27.54	Pass

Table 151 Spurious Emissions at middle channel (Band 25 LTE15 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
0.009 – 22000	7999	-47.40	-16.01	31.39	Pass
256QAM-Modulation TX port RF2-4					
0.009 – 22000	7998	-47.18	-16.01	31.17	Pass

Table 152 Spurious Emissions at middle channel (Band 66 LTE15 MHz Channel BW)

Config D Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-1					
0.009 – 19950	9697.29	-43.51	-16.01	27.50	Pass
64QAM-Modulation TX port RF2-2					
0.009 – 19950	9702.29	-43.59	-16.01	27.58	Pass

Table 153 Spurious Emissions at middle channel (Band 25 LTE20 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-3					
0.009 – 22000	7997	-47.40	-16.01	31.39	Pass
64QAM-Modulation TX port RF2-4					
0.009 – 22000	7999	-47.39	-16.01	31.38	Pass

Table 154 Spurious Emissions at middle channel (Band 66 LTE20 MHz Channel BW)

Config E Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-1					
0.009 – 19950	9213.85	-44.44	-16.01	28.43	Pass
256QAM-Modulation TX port RF2-2					
0.009 – 19950	9213.85	-44.37	-16.01	28.36	Pass

Table 155 Spurious Emissions at middle channel (Band 25 LTE5+5MHz MHz Channel BW non contiguous spectrum)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-3					
0.009 – 22000	9213.85	-44.33	-16.01	28.32	Pass
QPSK-Modulation TX port RF2-4					
0.009 – 22000	9214.85	-44.41	-16.01	28.40	Pass

Table 156 Spurious Emissions at middle channel (Band 66 LTE5+5MHz MHz Channel BW non contiguous spectrum)

Config F Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-1					
0.009 – 19950	9717.29	-43.59	-16.01	27.58	Pass
QPSK-Modulation TX port RF2-2					
0.009 – 19950	9714.79	-43.57	-16.01	27.56	Pass

Table 157 Spurious Emissions at middle channel (Band 25 NR5 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
0.009 – 22000	2109.97	-43.34	-16.01	27.33	Pass
QPSK-Modulation TX port RF2-4					
0.009 – 22000	9722.28	-43.59	-16.01	27.58	Pass

Table 158 Spurious Emissions at middle channel (Band 66 NR5 MHz Channel BW)

Config G Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
0.009 – 19950	9697.29	-43.57	-16.01	27.56	Pass
QPSK-Modulation TX port RF2-2					
0.009 – 19950	9699.29	-43.60	-16.01	27.59	Pass

Table 159 Spurious Emissions at middle channel (Band 25 NR10 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF2-3					
0.009 – 22000	9702.79	-43.59	-16.01	27.58	Pass
64QAM-Modulation TX port RF2-4					
0.009 – 22000	9700.29	-43.55	-16.01	27.54	Pass

Table 160 Spurious Emissions at middle channel (Band 66 NR10 MHz Channel BW)

Config H Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
0.009 – 19950	9716.29	-42.97	-16.01	26.96	Pass
16QAM-Modulation TX port RF2-2					
0.009 – 19950	9695.79	-43.44	-16.01	27.43	Pass

Table 161 Spurious Emissions at middle channel (Band 25 NR15 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF2-3					
0.009 – 22000	2109.97	-43.51	-16.01	27.50	Pass
64QAM-Modulation TX port RF2-4					
0.009 – 22000	2109.97	-42.05	-16.01	26.04	Pass

Table 162 Spurious Emissions at middle channel (Band 66 NR15 MHz Channel BW)

Config I Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-1					
0.009 – 19950	9714.79	-43.04	-16.01	27.03	Pass
16QAM-Modulation TX port RF2-2					
0.009 – 19950	9712.79	-43.00	-16.01	26.99	Pass

Table 163 Spurious Emissions at middle channel (Band 25 NR20 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
0.009 – 22000	9718.79	-43.05	-16.01	27.04	Pass
QPSK-Modulation TX port RF2-4					
0.009 – 22000	9715.79	-42.94	-16.01	26.93	Pass

Table 164 Spurious Emissions at middle channel (Band 66 NR20 MHz Channel BW)

Config J Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
0.009 – 19950	9714.79	-42.99	-16.01	26.98	Pass
QPSK-Modulation TX port RF2-2					
0.009 – 19950	9715.79	-43.07	-16.01	27.06	Pass

Table 165 Spurious Emissions at middle channel (Band 25 NR25 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-3					
0.009 – 22000	9716.29	-43.10	-16.01	27.09	Pass
256QAM-Modulation TX port RF2-4					
0.009 – 22000	9713.79	-43.03	-16.01	27.02	Pass

Table 166 Spurious Emissions at middle channel (Band 66 NR25 MHz Channel BW)

Config K Spurious emission: B25

Carrier Frequency: 1962.5 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF2-1					
0.009 – 19950	9716.79	-43.01	-16.01	27.00	Pass
256QAM-Modulation TX port RF2-2					
0.009 – 19950	9713.79	-43.00	-16.01	26.99	Pass

Table 167 Spurious Emissions at middle channel (Band 25 NR30 MHz Channel BW)

B66

Carrier Frequency: 2155 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF2-3					
0.009 – 22000	9713.79	-42.93	-16.01	26.92	Pass
16QAM-Modulation TX port RF2-4					
0.009 – 22000	9715.79	-42.98	-16.01	26.97	Pass

Table 168 Spurious Emissions at middle channel (Band 66 NR30 MHz Channel BW)

Config L 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-1					
0.009 – 39800	3640.64	-43.57	-19.01	24.56	Pass
QPSK-Modulation TX port RF1-2					
0.009 – 39800	9715.29	-43.27	-19.01	24.26	Pass

Table 169 Spurious Emissions at middle channel (Band 77 NR10 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3662.14	-43.91	-19.01	24.90	Pass
256QAM-Modulation TX port RF1-4					
0.009 – 39800	3662.14	-45.38	-19.01	26.37	Pass

Table 170 Spurious Emissions at middle channel (Band 77 NR10 MHz Channel BW)

Config M 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-1					
0.009 – 39800	5007.92	-46.50	-19.01	27.49	Pass
256QAM-Modulation TX port RF1-2					
0.009 – 39800	9715.79	-42.99	-19.01	23.98	Pass

Table 171 Spurious Emissions at middle channel (Band 77 NR20 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3644.64	-42.47	-19.01	23.46	Pass
256QAM-Modulation TX port RF1-4					
0.009 – 39800	5009.42	-43.51	-19.01	24.50	Pass

Table 172 Spurious Emissions at middle channel (Band 77 NR20 MHz Channel BW)

Config N 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
0.009 – 39800	3554.66	-45.66	-19.01	26.65	Pass
16QAM-Modulation TX port RF1-2					
0.009 – 39800	9714.29	-43.20	-19.01	24.19	Pass

Table 173 Spurious Emissions at middle channel (Band 77 NR30 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-3					
0.009 – 39800	5007.42	-43.54	-19.01	24.53	Pass
256QAM-Modulation TX port RF1-4					
0.009 – 39800	5008.92	-43.66	-19.01	24.65	Pass

Table 174 Spurious Emissions at middle channel (Band 77 NR30 MHz Channel BW)

Config O Spurious emission: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-1					
0.009 – 39800	5008.92	-46.64	-19.01	27.63	Pass
16QAM-Modulation TX port RF1-2					
0.009 – 39800	9712.79	-43.17	-19.01	24.16	Pass

Table 175 Spurious Emissions at middle channel (Band 77 NR40 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3621.65	-45.69	-19.01	26.68	Pass
64QAM-Modulation TX port RF1-4					
0.009 – 39800	4983.42	-43.68	-19.01	24.67	Pass

Table 176 Spurious Emissions at middle channel (Band 77 NR40 MHz Channel BW)

Config P Spurious emission: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
0.009 – 39800	5005.79	-46.23	-19.01	27.22	Pass
QPSK-Modulation TX port RF1-2					
0.009 – 39800	9713.29	-43.10	-19.01	24.09	Pass

Table 177 Spurious Emissions at middle channel (Band 77 NR50 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3643.64	-45.37	-19.01	26.36	Pass
64QAM-Modulation TX port RF1-4					
0.009 – 39800	5004.92	-46.43	-19.01	27.42	Pass

Table 178 Spurious Emissions at middle channel (Band 77 NR50 MHz Channel BW)

Config Q Spurious emission: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-1					
0.009 – 39800	3553.66	-44.03	-19.01	25.02	Pass
64QAM-Modulation TX port RF1-2					
0.009 – 39800	9716.29	-43.21	-19.01	24.20	Pass

Table 179 Spurious Emissions at middle channel (Band 77 NR60 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3600.15	-45.82	-19.01	26.81	Pass
64QAM-Modulation TX port RF1-4					
0.009 – 39800	5009.42	-46.46	-19.01	27.45	Pass

Table 180 Spurious Emissions at middle channel (Band 77 NR60 MHz Channel BW)

Config R Spurious emission: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-1					
0.009 – 39800	3551.66	-42.97	-19.01	23.96	Pass
64QAM-Modulation TX port RF1-2					
0.009 – 39800	9715.29	-43.18	-19.01	24.17	Pass

Table 181 Spurious Emissions at middle channel (Band 77 NR70 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3600.65	-45.65	-19.01	26.64	Pass
256QAM-Modulation TX port RF1-4					
0.009 – 39800	3601.65	-46.02	-19.01	27.01	Pass

Table 182 Spurious Emissions at middle channel (Band 77 NR70 MHz Channel BW)

Config S Spurious emission: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
0.009 – 39800	3564.66	-43.47	-19.01	24.46	Pass
16QAM-Modulation TX port RF1-2					
0.009 – 39800	9714.79	-43.15	-19.01	24.14	Pass

Table 183 Spurious Emissions at middle channel (Band 77 NR80 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3606.15	-45.21	-19.01	26.20	Pass
256QAM-Modulation TX port RF1-4					
0.009 – 39800	4990.42	-46.43	-19.01	27.42	Pass

Table 184 Spurious Emissions at middle channel (Band 77 NR80 MHz Channel BW)

Config T Spurious emission: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
64QAM-Modulation TX port RF1-1					
0.009 – 39800	3553.66	-43.10	-19.01	24.09	Pass
16QAM-Modulation TX port RF1-2					
0.009 – 39800	9716.29	-43.07	-19.01	24.06	Pass

Table 185 Spurious Emissions at middle channel (Band 77 NR90 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
256QAM-Modulation TX port RF1-3					
0.009 – 39800	3599.15	-46.11	-19.01	27.10	Pass
64QAM-Modulation TX port RF1-4					
0.009 – 39800	5007.42	-46.41	-19.01	27.40	Pass

Table 186 Spurious Emissions at middle channel (Band 77 NR90 MHz Channel BW)

Config U Spurious emission: 3450-3550 band

Carrier Frequency: 3500.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-1					
0.009 – 39800	3557.16	-43.42	-19.01	24.41	Pass
QPSK-Modulation TX port RF1-2					
0.009 – 39800	3574.15	-44.90	-19.01	25.89	Pass

Table 187 Spurious Emissions at middle channel (Band 77 NR100 MHz Channel BW)

3700 band

Carrier Frequency: 3840 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-3					
0.009 – 39800	9715.79	-47.51	-19.01	28.50	Pass
16QAM-Modulation TX port RF1-4					
0.009 – 39800	5007.42	-46.51	-19.01	27.50	Pass

Table 188 Spurious Emissions at middle channel (Band 77 NR100 MHz Channel BW)

Config V Spurious emission: 3450-3550 band

Carrier Frequency: 3455.01/3545.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
QPSK-Modulation TX port RF1-1					
0.009 – 39800	3632.14	-42.26	-19.01	23.25	Pass
16QAM-Modulation TX port RF1-2					
0.009 – 39800	3812.61	-43.43	-19.01	24.42	Pass

Table 189 Spurious Emissions at middle channel (Band 77 NR10MHz+10MHz Channel BW non contiguous spectrum)

3700 band

Carrier Frequency: 3774.99MHz / 3905.01 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
0.009 – 39800	3645.14	-41.42	-19.01	22.41	Pass
256QAM-Modulation TX port RF1-4					
0.009 – 39800	3643.14	-40.26	-19.01	21.25	Pass

Table 190 Spurious Emissions at middle channel (Band 77 NR10MHz+10MHz Channel BW non contiguous spectrum)

Config W Spurious emission: N77 3700

Carrier Frequency: 3789.99MHz / 3889.98 MHz					
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Limit [dBm]	Margin [dB]	Result
16QAM-Modulation TX port RF1-3					
0.009 – 39800	3574.15	-45.84	-19.01	26.83	Pass
QPSK-Modulation TX port RF1-4					
0.009 – 39800	3561.16	-45.38	-19.01	26.37	Pass

Table 191 Spurious Emissions at middle channel (Band 77 NR100MHz+100MHz Channel BW)

The measured conducted emission levels were found to be compliant with the manufacturer's specifications and with all requirements of the Rules.

4.5 Test No. 5 Field Strength of Spurious Radiation (§ 2.1053, § 24.238, § 27.53)

4.5.1 FCC Section 2.1053 Field Strength of Spurious Emissions

Field strength measurements of radiated spurious emissions were made in an FCC registered 3m Semi-Anechoic Chamber which is maintained by Nokia in Oulu, Finland. A complete description and full measurement data for the site is on file with the FCC (Site Registration Number: 261413).

The spectrum from 30 MHz to beyond the tenth harmonic of the carrier 3.98 GHz, (40 GHz), was searched for spurious radiation. Measurements were made using both horizontally and vertically polarized broadband antennas. Per FCC regulations, the comparison of out of band spurious emissions directly to the limit is appropriately made using the substitution method. However, when the emissions are more than 20 dB below the specification limit, the use of field strength measurements for compliance determination is acceptable and those emissions are considered not reportable (FCC Section 2.1053). For this case the evaluation of acceptable radiated field strength is as follows.

4.5.2 Field Strength of Spurious Emissions - Limits

FCC Sections 2.1053, 24.238 and 27.53 contain the requirements for the levels of spurious radiation as a function of the level of the unmodulated carrier. The reference level for the unmodulated carrier is calculated as the field produced by an ideal dipole excited by the transmitter output power according to the following relation taken from Reference Data for Radio Engineers, page 676, 4th edition, IT&T Corp.

$$E = [(30 \cdot P)^{1/2}] / R$$

$$20 \log (E \cdot 10^6) - (43 + 10 \log P) = 82.23 \text{ dB}\mu\text{V/meter}$$

Where:

E = Field Intensity in Volts/meter P = Transmitted Power in Watts

R = Measurement distance in meters = 3 m

The Part 27 Limit is 82.23 dB μ V/m at 3m and 85.75 dB μ V/m at 2m

The calculated emission levels were found by:

$$\text{Measured level (dB}\mu\text{V)} + \text{Cable Loss(dB)} + \text{Antenna Factor(dB)} = \text{Field Strength (dB}\mu\text{V/m)}$$

4.5.3 FCC 15.109 Class B Radiated Emissions Limits:

Frequency (MHz)	Field Strength at 3m (dB μ V/m) FCC §15.109	RBW (KHz)	Detector
30 – 88	40.0	100	QP
88 – 216	43.5	100	QP
216 – 960	46.0	100	QP
960 – 1000	54.0	100	QP
1000 – 10 th harmonic	54.0	1000	Average

Table 192 Radiated Emission Limits

4.5.4 RESULTS:

For compliance with 47CFR Part 2, 24 and 27, the field strength of any spurious radiation, measured at 3m, is required to be less than 82.23 dBμV/meter (82.23 @ 3m). Over the out of band spectrum investigated from 30 MHz to beyond the tenth harmonic of the carrier (up to 26.9 GHz), no reportable spurious emissions were detected.

Measured laboratory room temperature and humidity during the tests				
Date	Temperature Min-Max:		Humidity Min-Max:	
5 Aug – 8 Aug 2025	19.6 °C	22.1 °C	43.9 RH%	63.3 RH%
Frequency Range [MHz]	Emission Frequency [MHz]	Maximum Emission Level [dBm]	Result	
30 - 40000	10312.488120	-39.33 dBm	Pass	
Measurement Uncertainty:			±5.47 dB	

Table 193 Field Strength of Spurious Radiation

The measured emission levels were found to be compliant with the manufacturer's specifications and with all requirements of the FCC.

4.6 Test No. 6: Frequency Stability (§2.1055, §24.235, §27.54)

4.6.1 Purpose

Frequency stability measurements were performed to verify that the frequency deviation of the emission stays within the licensee's frequency block under extreme temperature and voltage variations.

4.6.2 Limits

Para. No. 27.54, 24.235. (0 °C to +40 °C) and supply voltage conditions according to § 2.1055.

4.6.3 Test Configuration

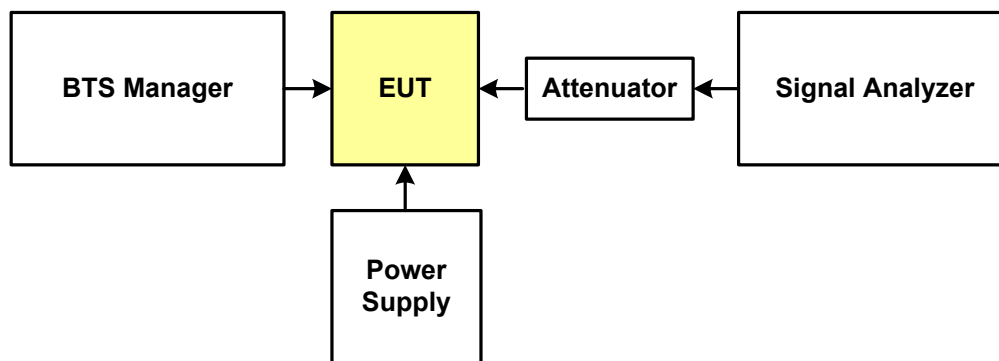


Figure 2 Test Configuration for frequency stability with voltage variation

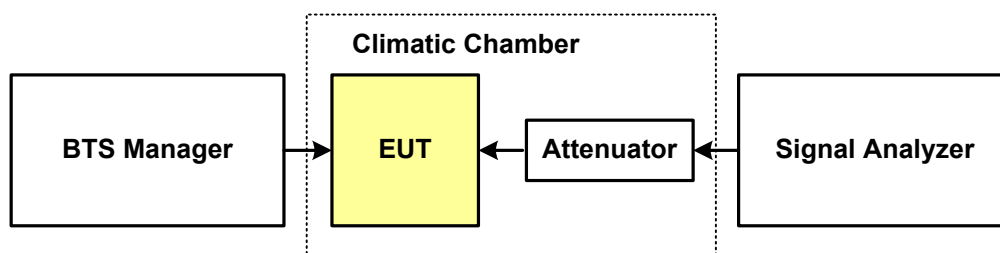


Figure 3 Test Configuration for frequency stability with temperature variation

A complete list of measurement equipment's is included in section 5.1 of this measurement report.

4.6.4 Test Procedure and Results

Frequency Stability with Temperature Variation:

The supply voltage of the EUT was set to the nominal value and the temperature of the environmental chamber was varied at 0, +10 +20 , +30 and +40 degrees Celsius. The EUT was allowed to stabilize 60 min at each temperature and the frequency error was measured from antenna ports RF1-1, RF1-3, RF2-2 and RF2-4 which was selected at random. Configs A, F and U were measured.

Measured laboratory room temperature and humidity during the tests				
Date	Temperature Min-Max:		Humidity Min-Max:	
14.5.2025 – 26.5.2025	22.8 °C	24.9 °C	16.1 RH%	41.3 RH%

Config A: B25

Carrier Frequency: 1962.5 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation TX Port RF2-2						
-48.0	0.0	4.254105	0.002	97	0.05	Pass
-48.0	10.0	2.937366	0.001	97	0.05	Pass
-48.0	30.0	-2.50917	-0.001	97	0.05	Pass
-48.0	40.0	2.670926	0.001	97	0.05	Pass
16QAM Modulation TX Port RF2-2						
-48.0	0.0	3.58829	0.002	97	0.05	Pass
-48.0	10.0	2.190652	0.001	97	0.05	Pass
-48.0	30.0	-2.39008	-0.001	97	0.05	Pass
-48.0	40.0	3.063156	0.002	97	0.05	Pass
64QAM Modulation TX Port RF2-2						
-48.0	0.0	-4.61039	-0.002	97	0.05	Pass
-48.0	10.0	2.826705	0.001	97	0.05	Pass
-48.0	30.0	-2.71945	-0.001	97	0.05	Pass
-48.0	40.0	3.091907	0.002	97	0.05	Pass
256QAM Modulation TX Port RF2-2						
-48.0	0.0	-3.89297	-0.002	97	0.05	Pass
-48.0	10.0	2.521184	0.001	97	0.05	Pass
-48.0	30.0	3.262377	0.002	97	0.05	Pass
-48.0	40.0	3.882219	0.002	97	0.05	Pass

Table 194 Frequency stability with temperature variation (LTE 5MHz Channel BW)

Config A: B66

Carrier Frequency: 2155 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation TX Port RF2-4						
-48.0	0.0	-2.83023	-0.001	105	0.05	Pass
-48.0	10.0	-3.49828	-0.002	105	0.05	Pass
-48.0	30.0	-2.52053	-0.001	105	0.05	Pass
-48.0	40.0	-1.96554	-0.001	105	0.05	Pass
16QAM Modulation TX Port RF2-4						
-48.0	0.0	-3.23969	-0.002	105	0.05	Pass
-48.0	10.0	-2.8172	-0.001	105	0.05	Pass
-48.0	30.0	-1.45468	-0.001	105	0.05	Pass
-48.0	40.0	-1.91889	-0.001	105	0.05	Pass
64QAM Modulation TX Port RF2-4						
-48.0	0.0	-2.16206	-0.001	105	0.05	Pass
-48.0	10.0	1.733025	0.001	105	0.05	Pass
-48.0	30.0	-3.6881	-0.002	105	0.05	Pass
-48.0	40.0	-3.55799	-0.002	105	0.05	Pass
256QAM Modulation TX Port RF2-4						
-48.0	0.0	-2.85001	-0.001	105	0.05	Pass
-48.0	10.0	-2.54382	-0.001	105	0.05	Pass
-48.0	30.0	-2.03017	-0.001	105	0.05	Pass
-48.0	40.0	-2.18168	-0.001	105	0.05	Pass

Table 195 Frequency stability with temperature variation (LTE 5MHz Channel BW)

Config F: B25

Carrier Frequency: 1962.5 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation TX Port RF2-2						
-48.0	0.0	-0.46442	-0.000	97	0.05	Pass
-48.0	10.0	-0.17604	-0.000	97	0.05	Pass
-48.0	30.0	1.422342	0.001	97	0.05	Pass
-48.0	40.0	-0.07019	-0.000	97	0.05	Pass
16QAM Modulation TX Port RF2-2						
-48.0	0.0	2.026613	0.001	97	0.05	Pass
-48.0	10.0	0.249299	0.000	97	0.05	Pass
-48.0	30.0	-0.3384	-0.000	97	0.05	Pass
-48.0	40.0	-0.0633	-0.000	97	0.05	Pass
64QAM Modulation TX Port RF2-2						
-48.0	0.0	-0.9669	-0.000	97	0.05	Pass
-48.0	10.0	0.791674	0.000	97	0.05	Pass
-48.0	30.0	-0.205	-0.000	97	0.05	Pass
-48.0	40.0	0.19163	0.000	97	0.05	Pass
256QAM Modulation TX Port RF2-2						
-48.0	0.0	-0.30614	-0.000	97	0.05	Pass
-48.0	10.0	0.374525	0.000	97	0.05	Pass
-48.0	30.0	-2.17383	-0.001	97	0.05	Pass
-48.0	40.0	-0.61329	-0.000	97	0.05	Pass

Table 196 Frequency stability with temperature variation (NR 5MHz Channel BW)

Config F: B66

Carrier Frequency: 2155 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation TX Port RF2-4						
-48.0	0.0	0.0131	0.000	105	0.05	Pass
-48.0	10.0	0.487889	0.000	105	0.05	Pass
-48.0	30.0	1.687955	0.001	105	0.05	Pass
-48.0	40.0	0.359183	0.000	105	0.05	Pass
16QAM Modulation TX Port RF2-4						
-48.0	0.0	1.278199	0.001	105	0.05	Pass
-48.0	10.0	1.196288	0.001	105	0.05	Pass
-48.0	30.0	1.200023	0.001	105	0.05	Pass
-48.0	40.0	-0.38647	-0.000	105	0.05	Pass
64QAM Modulation TX Port RF2-4						
-48.0	0.0	-0.52352	-0.000	105	0.05	Pass
-48.0	10.0	-0.90613	-0.000	105	0.05	Pass
-48.0	30.0	-0.02077	-0.000	105	0.05	Pass
-48.0	40.0	1.121669	0.001	105	0.05	Pass
256QAM Modulation TX Port RF2-4						
-48.0	0.0	-1.73314	-0.001	105	0.05	Pass
-48.0	10.0	0.193755	0.000	105	0.05	Pass
-48.0	30.0	-0.24293	-0.000	105	0.05	Pass
-48.0	40.0	0.204834	0.000	105	0.05	Pass

Table 197 Frequency stability with temperature variation (NR 5MHz Channel BW)

Config U: 3450-3550 band (TDD1)

Carrier Frequency: 3500.01 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation TX Port RF1-1						
-48.0	0.0	4.549949	0.001	172	0.05	Pass
-48.0	10.0	6.757849	0.002	172	0.05	Pass
-48.0	30.0	5.409857	0.002	172	0.05	Pass
-48.0	40.0	3.97131	0.001	172	0.05	Pass
16QAM Modulation TX Port RF1-1						
-48.0	0.0	3.868225	0.001	172	0.05	Pass
-48.0	10.0	5.430095	0.002	172	0.05	Pass
-48.0	30.0	7.04731	0.002	172	0.05	Pass
-48.0	40.0	4.812372	0.001	172	0.05	Pass
64QAM Modulation TX Port RF1-1						
-48.0	0.0	6.851514	0.002	172	0.05	Pass
-48.0	10.0	6.199884	0.002	172	0.05	Pass
-48.0	30.0	3.624385	-0.001	172	0.05	Pass
-48.0	40.0	4.091945	0.001	172	0.05	Pass
256QAM Modulation TX Port RF1-1						
-48.0	0.0	4.988095	0.001	172	0.05	Pass
-48.0	10.0	8.090868	0.002	172	0.05	Pass
-48.0	30.0	3.673548	0.001	172	0.05	Pass
-48.0	40.0	5.227568	0.001	172	0.05	Pass

Table 198 Frequency stability with temperature variation (NR 100MHz Channel BW)

Config U: 3700 band (TDD2)

Carrier Frequency: 3840 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation TX Port RF1-3						
-48.0	0.0	-1.47201	-0.000	185	0.05	Pass
-48.0	10.0	-3.87636	-0.001	185	0.05	Pass
-48.0	30.0	-0.90352	-0.000	185	0.05	Pass
-48.0	40.0	-4.66136	-0.001	185	0.05	Pass
16QAM Modulation TX Port RF1-3						
-48.0	0.0	0.768632	0.000	185	0.05	Pass
-48.0	10.0	-0.45629	-0.000	185	0.05	Pass
-48.0	30.0	-2.09835	-0.001	185	0.05	Pass
-48.0	40.0	-1.83053	-0.000	185	0.05	Pass
64QAM Modulation TX Port RF1-3						
-48.0	0.0	0.141109	0.000	185	0.05	Pass
-48.0	10.0	-1.2811	-0.000	185	0.05	Pass
-48.0	30.0	-0.6009	-0.000	185	0.05	Pass
-48.0	40.0	-3.7525	-0.001	185	0.05	Pass
256QAM Modulation TX Port RF1-3						
-48.0	0.0	-1.62216	-0.000	185	0.05	Pass
-48.0	10.0	-1.67377	-0.000	185	0.05	Pass
-48.0	30.0	-1.53607	-0.000	185	0.05	Pass
-48.0	40.0	0.790169	0.000	185	0.05	Pass

Table 199 Frequency stability with temperature variation (NR 100MHz Channel BW)

Frequency Stability with Voltage Variation:

The EUT was placed in a climatic chamber and allowed to stabilize at +20 degrees Celsius for at least 60 minutes. With the supply voltage of the EUT set to 85% of the nominal value, the frequency error was measure. This procedure was repeated at 100% and 115% of the nominal supply voltage value.

Config A: B25

Carrier Frequency: 1962.5MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation Tx port RF2-2						
-40.8	20.0	-3.62038	-0.002	97	0.05	Pass
-48.0	20.0	2.865106	-0.001	97	0.05	Pass
-55.2	20.0	-2.649	-0.001	97	0.05	Pass
16QAM Modulation Tx port RF2-2						
-40.8	20.0	-3.92982	-0.002	97	0.05	Pass
-48.0	20.0	1.514436	0.001	97	0.05	Pass
-55.2	20.0	2.695735	0.001	97	0.05	Pass
64QAM Modulation Tx port RF2-2						
-40.8	20.0	-4.6988	-0.002	97	0.05	Pass
-48.0	20.0	3.519085	0.002	97	0.05	Pass
-55.2	20.0	2.858216	0.001	97	0.05	Pass
256QAM Modulation Tx port RF2-2						
-40.8	20.0	-2.57069	-0.001	97	0.05	Pass
-48.0	20.0	-3.58168	-0.002	97	0.05	Pass
-55.2	20.0	2.626994	0.001	97	0.05	Pass

Table 200 Frequency stability with voltage variation. (LTE 5 MHz Channel BW)

Config A: B66

Carrier Frequency: 2155MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation Tx port RF2-4						
-40.8	20.0	-2.98376	-0.001	105	0.05	Pass
-48.0	20.0	-3.68347	-0.002	105	0.05	Pass
-55.2	20.0	-3.81016	-0.002	105	0.05	Pass
16QAM Modulation Tx port RF2-2						
-40.8	20.0	-2.34252	-0.001	105	0.05	Pass
-48.0	20.0	-3.81647	-0.002	105	0.05	Pass
-55.2	20.0	-3.80302	-0.002	105	0.05	Pass
64QAM Modulation Tx port RF2-2						
-40.8	20.0	1.638302	0.001	105	0.05	Pass
-48.0	20.0	-3.22492	-0.001	105	0.05	Pass
-55.2	20.0	-3.1817	-0.001	105	0.05	Pass
256QAM Modulation Tx port RF2-2						
-40.8	20.0	2.052191	0.001	105	0.05	Pass
-48.0	20.0	-3.70761	-0.002	105	0.05	Pass
-55.2	20.0	-4.20924	-0.002	105	0.05	Pass

Table 201 Frequency stability with voltage variation. (LTE 5 MHz Channel BW)

Config F: B25

Carrier Frequency: 1962.5MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation Tx port RF2-2						
-40.8	20.0	0.194621	0.000	97	0.05	Pass
-48.0	20.0	-1.09577	-0.001	97	0.05	Pass
-55.2	20.0	-1.12502	-0.001	97	0.05	Pass
16QAM Modulation Tx port RF2-2						
-40.8	20.0	-0.63027	-0.000	97	0.05	Pass
-48.0	20.0	0.634631	0.000	97	0.05	Pass
-55.2	20.0	-0.30681	-0.000	97	0.05	Pass
64QAM Modulation Tx port RF2-2						
-40.8	20.0	0.606322	0.000	97	0.05	Pass
-48.0	20.0	0.656101	0.000	97	0.05	Pass
-55.2	20.0	-0.22497	-0.000	97	0.05	Pass
256QAM Modulation Tx port RF2-2						
-40.8	20.0	0.280222	0.000	97	0.05	Pass
-48.0	20.0	-0.9077	-0.000	97	0.05	Pass
-55.2	20.0	-0.17192	-0.000	97	0.05	Pass

Table 202 Frequency stability with voltage variation. (NR 5 MHz Channel BW)

Config F: B66

Carrier Frequency: 2155MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation Tx port RF2-4						
-40.8	20.0	-1.51157	-0.001	105	0.05	Pass
-48.0	20.0	-1.11646	-0.001	105	0.05	Pass
-55.2	20.0	-0.55426	-0.000	105	0.05	Pass
16QAM Modulation Tx port RF2-4						
-40.8	20.0	-0.79689	-0.000	105	0.05	Pass
-48.0	20.0	-0.99504	-0.000	105	0.05	Pass
-55.2	20.0	-0.6046	-0.000	105	0.05	Pass
64QAM Modulation Tx port RF2-4						
-40.8	20.0	-2.37924	-0.001	105	0.05	Pass
-48.0	20.0	-1.38731	-0.001	105	0.05	Pass
-55.2	20.0	0.78618	0.000	105	0.05	Pass
256QAM Modulation Tx port RF2-4						
-40.8	20.0	0.366087	0.000	105	0.05	Pass
-48.0	20.0	-1.11607	0.001	105	0.05	Pass
-55.2	20.0	-0.46195	-0.000	105	0.05	Pass

Table 203 Frequency stability with voltage variation. (NR 5 MHz Channel BW)

Config U: 3450-3550 band

Carrier Frequency: 3500.01 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation Tx port RF1-1						
-40.8	20.0	6.535597	0.002	172	0.05	Pass
-48.0	20.0	5.075378	0.001	172	0.05	Pass
-55.2	20.0	5.186578	0.001	172	0.05	Pass
16QAM Modulation Tx port RF1-1						
-40.8	20.0	6.285247	0.002	172	0.05	Pass
-48.0	20.0	2.882268	0.001	172	0.05	Pass
-55.2	20.0	4.395463	0.001	172	0.05	Pass
64QAM Modulation Tx port RF1-1						
-40.8	20.0	3.394122	0.001	172	0.05	Pass
-48.0	20.0	7.706878	0.002	172	0.05	Pass
-55.2	20.0	5.865138	0.002	172	0.05	Pass
256QAM Modulation Tx port RF1-1						
-40.8	20.0	3.337234	0.001	172	0.05	Pass
-48.0	20.0	4.250585	0.001	172	0.05	Pass
-55.2	20.0	4.848291	0.001	172	0.05	Pass

Table 204 Frequency stability with voltage variation. (NR 100 MHz Channel BW)

Config U: 3700band

Carrier Frequency: 3840 MHz						
Supply Voltage (DC) [V]	Ambient Temperature [°C]	Frequency Deviation		Manufacturer's Specification		Result
		[Hz]	[ppm]	[Hz]	[ppm]	
QPSK Modulation Tx port RF1-3						
-40.8	20.0	-4.52818	-0.001	185	0.05	Pass
-48.0	20.0	-1.92305	-0.001	185	0.05	Pass
-55.2	20.0	3.386782	0.001	185	0.05	Pass
16QAM Modulation Tx port RF1-3						
-40.8	20.0	-2.80586	-0.001	185	0.05	Pass
-48.0	20.0	-1.50302	-0.000	185	0.05	Pass
-55.2	20.0	2.30918	0.001	185	0.05	Pass
64QAM Modulation Tx port RF1-3						
-40.8	20.0	-1.14725	-0.000	185	0.05	Pass
-48.0	20.0	-0.92184	-0.000	185	0.05	Pass
-55.2	20.0	-0.12634	-0.000	185	0.05	Pass
256QAM Modulation Tx port RF1-3						
-40.8	20.0	-3.18968	-0.001	185	0.05	Pass
-48.0	20.0	-3.84888	-0.001	185	0.05	Pass
-55.2	20.0	-1.78768	-0.000	185	0.05	Pass

Table 205 Frequency stability with voltage variation. (NR 100 MHz Channel BW)

The measured frequency stability levels were found to be compliant with the manufacturer's specifications and with all requirements of the FCC rules.

5 Test Data and Screenshots

5.1 Part List of the RF Measurement Test Equipment

No.	Test Equipment	Manufacturer & Type	Serial Number	Calibration date	Calibration due	Test No.
1	Signal Analyzer	Rohde & Schwarz FSW43	104597	06/2025	06/2026	1,2,3,4,6
2	Frequency Standard	Symmetricon 8040C	162230101006	01/2025	01/2026	1,2,3,4
3	Signal Analyzer	Rohde & Schwarz FSW43	100747	12/2024	12/2025	1,2,3,4
4	Multimeter	Fluke 83	65870302	12/2024	12/2025	1,2,3,4,6
5	Network Analyzer	Rohde & Schwarz ZVL-13	101177	12/2024	12/2025	1,2,3,4,6
6	DC-power supply	Sorensen SG180X188D-1AAA	1245A00011	cnr	-	6
7	Frequency standard	Symmetricon 8040C	162230101016	05/2024	05/2025	6
8	Humidity and Temperature Indicator	HMP110	M2710515	07/2024	07/2025	1,2,3,4,6
9	Pressure Module	BARO-1	W1120136	06/2024	06/2025	1,2,3,4,6
10	Humidity and Temperature Indicator	Vaisala: HMP3	W212009	6/2024	6/2025	1,2,3,4,6
11	circulator	JCC2000T4000S3R	19060311927	cnr	-	6
12	circulator	JCC2000T4000S3R	19060311933	cnr	-	6
13	Temperature chamber	Weiss Technik GmbH	58566325380150	09/2024	09/2025	6
14	RF-Load	Spinner 01 BN 745828	01443676	cnr	-	6
15	High Pass Filter	RF- Lambda RHPF23G06G40	21052000014	cnr	-	4,
16	Attenuator	MCE/ Weichel 66-20-34	BM6886	cnr	-	1,2,3,4
17	DC Power Supply	Elektro-Automatik PSI 8080-510	2057220001	cnr	-	1,2,3,4
18	Attenuator	Signal Solutions, SSN-FA20K-40MF-10A	1	cnr	-	4
19	Network Analyzer	Rohde & Schwarz ZVA 40	100146	12/2024	12/2025	1,2,3,4
20	Emi test receiver	R&S ESW44	103055	06/2025	06/2026	5

21	Bilog Antenna	Schaffner Chase CBL6112B	2694	12/2024	12/2025	5
22	Horn Antenna	ETS-Lindgren 3117	52300	11/2024	11/2025	5
23	Horn antenna	ETS-Lindgren 3117	75823	11/2024	11/2025	5
24	Horn Antenna	ETS-Lindgren 3116C-PA	150635	12/2024	12/2025	5
25	4-meter mast	Maturo TAMM4.0-E	123/21250317	cnr	cnr	5
26	Mast Controller	Maturo NCD/281	21250317	cnr	cnr	5
27	Humidity and temperature meter	Vaisala HMP113	T0841033	12/2024	12/2025	5
28	Anechoic Chamber	Comtest 3-m SAC	1711-200-216453	10/2022	10/2025	5
29	High pass filter	Creowave Filters CW-HPF-6000- 18000-E3-M2	2419001	cnr	cnr	5
30	High pass filter	Creowave Filters CW-HPF-3000- 15000-E1-M2	92001	cnr	cnr	5
31	Band Stop Filter	Creowave Filters CW-BSF-3450- 3900-E6-M2	2364001	cnr	cnr	5
32	Band Stop Filter	Creowave Filters CW-BSF-1930- 1995-E8-M2	1588001	cnr	cnr	5
33	Band Stop Filter	Creowave Filters CW-BSF-3700- 3980-E14-M2	2363001	cnr	cnr	5
34	Band Stop Filter	Creowave Filters CW-BSF-2110- 2200-E6M2	1363001	cnr	cnr	5

cnr – calibration not required

Table 206 Part List of the RF Measurement Test Equipment

5.2 Spectral Plots

NOTE: Only a sample of the spectral plots are used and visible in this report. All measured test results and data are saved in Oulu located server.

5.2.1 Test No. 1: RF Output Power

Config A Power spectral density LTE 5MHz BW

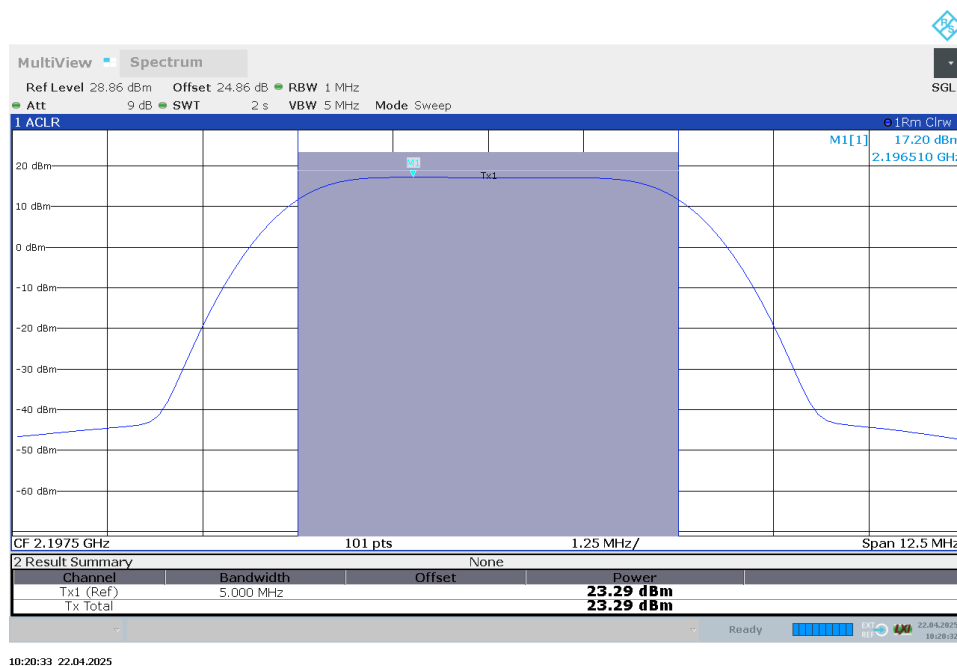


Figure 4 Test Model 3.2, Modulation QPSK, Channel Frequency 2197.5MHz, Tx port RF2-4

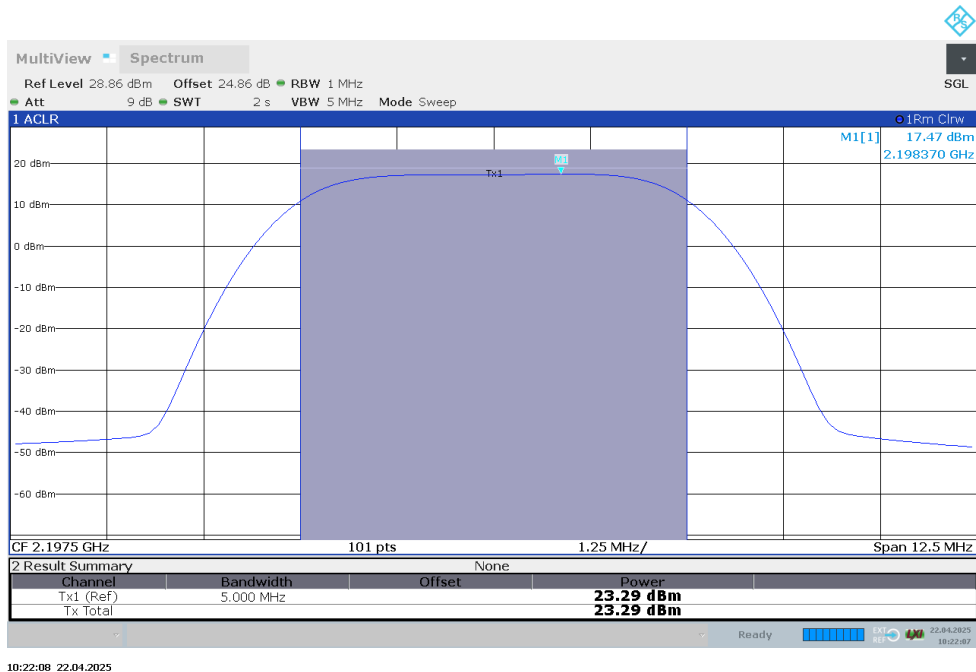


Figure 5 Test Model 3.2, Modulation 16QAM, Channel Frequency 2197.5MHz, Tx port RF2-4

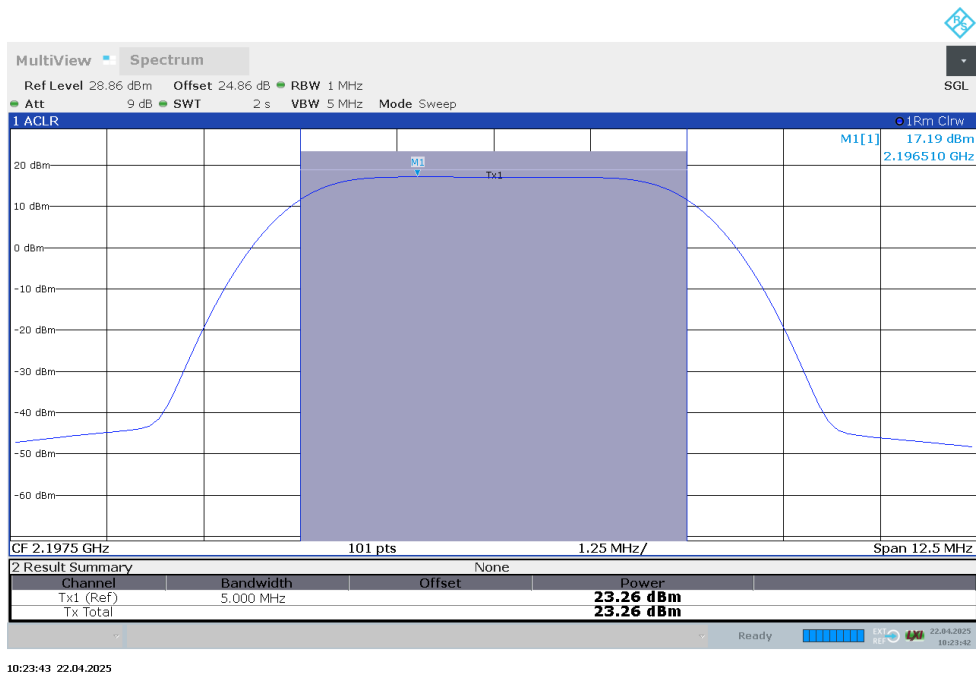


Figure 6 Test Model 3.1, Modulation 64QAM, Channel Frequency 2197.5MHz, Tx port RF2-4

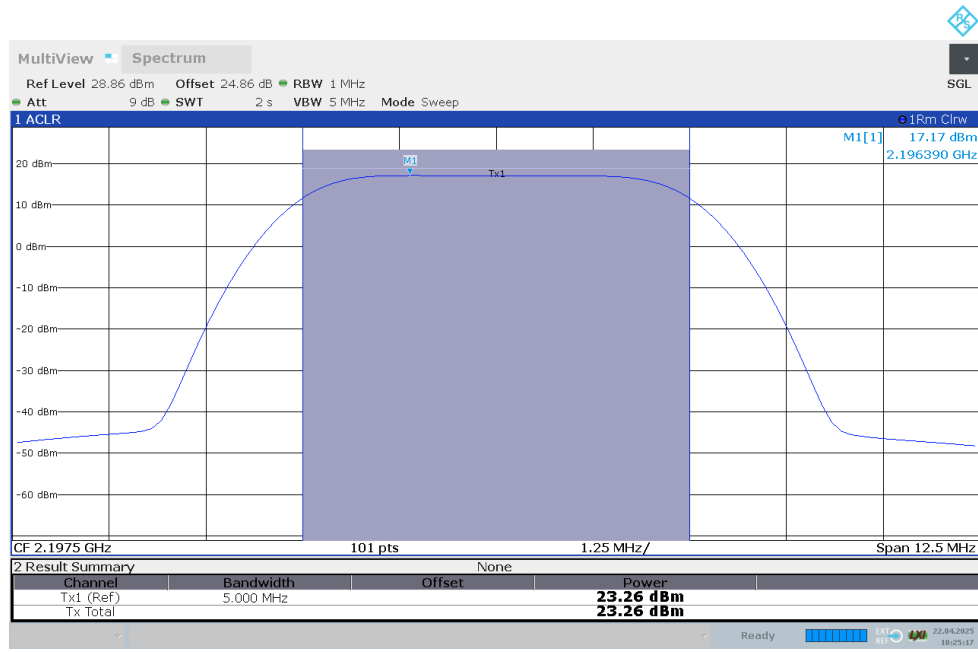


Figure 7 Test Model 3.1A, Modulation 256QAM, Channel Frequency 2197.5MHz, Tx portRF2-4

Config F: Power spectral density NR 5MHz BW

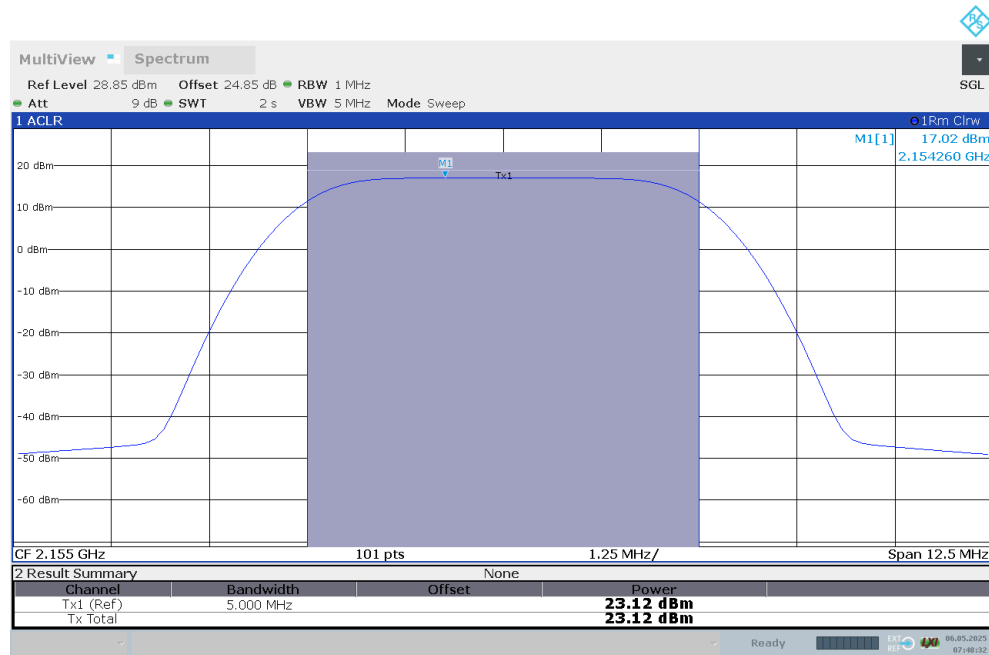


Figure 8 Test Model 1.1, Modulation QPSK, Channel Frequency 2155MHz, Tx port RF2-4

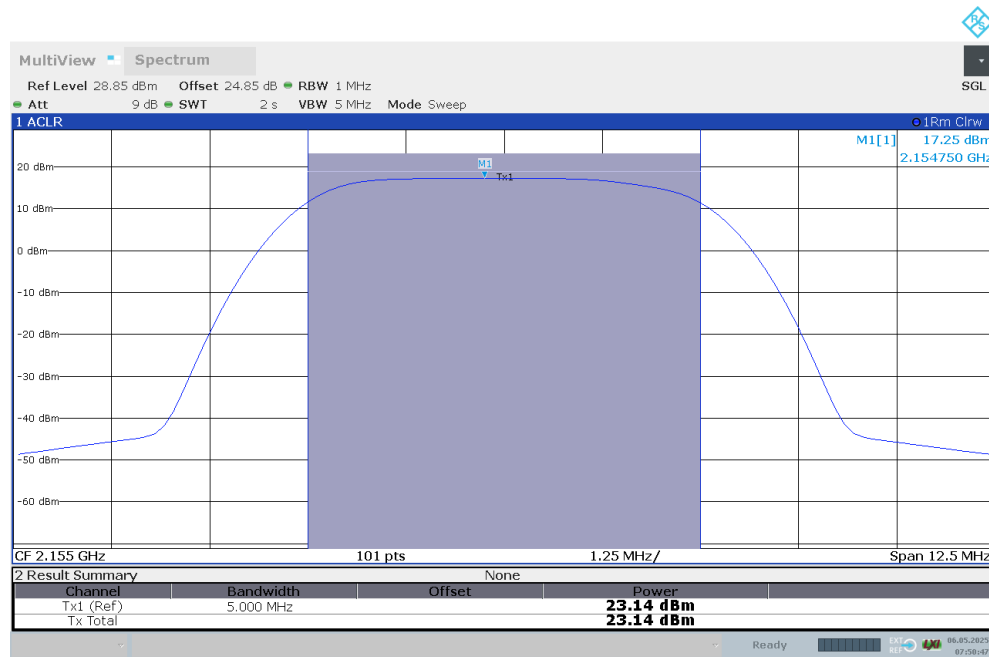
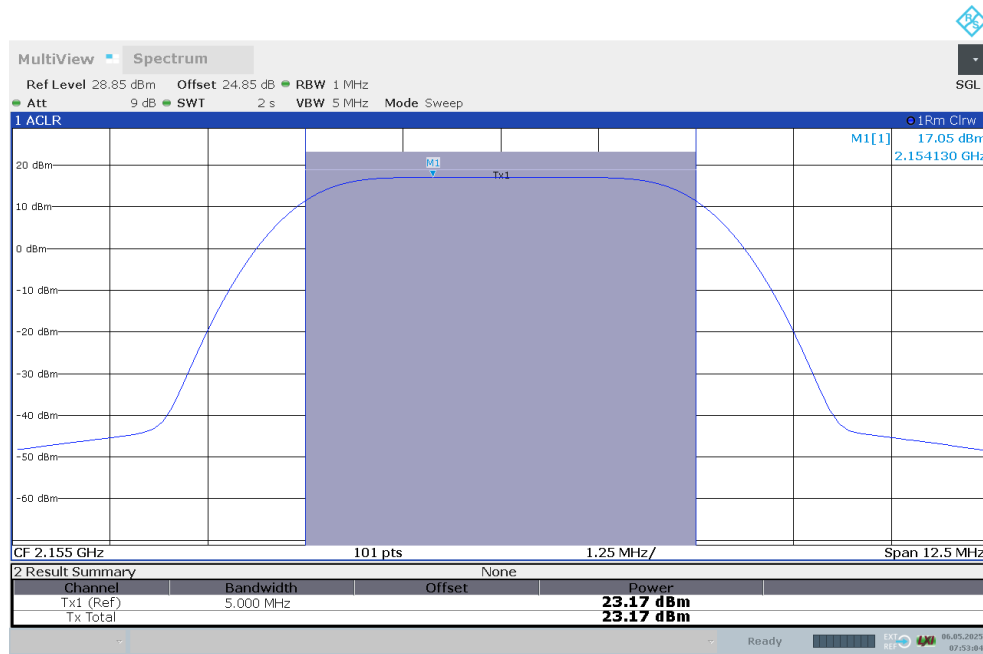
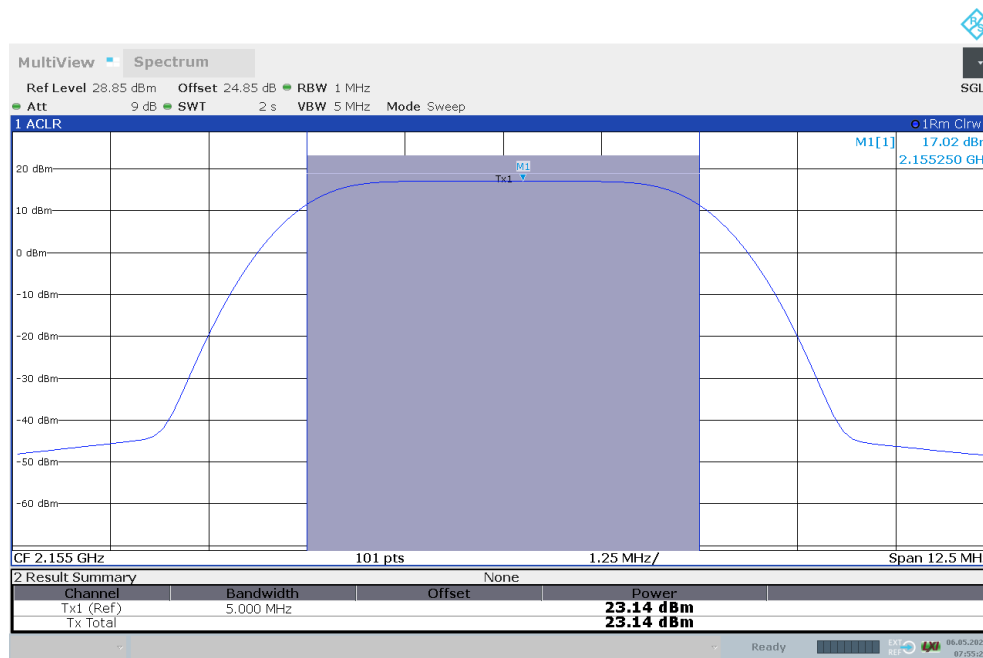


Figure 9 Test Model 3.2, Modulation 16QAM, Channel Frequency 2155MHz, Tx port RF2-4



07:53:05 06.05.2025

Figure 10 Test Model 3.1, Modulation 64QAM, Channel Frequency 2155MHz, Tx port RF2-4



07:55:21 06.05.2025

Figure 11 Test Model 3.1A, Modulation 256QAM, Channel Frequency 2155MHz, Tx port RF2-4

Config A: Peak-to-Average Power Ratio (PAPR) LTE 5MHz BW

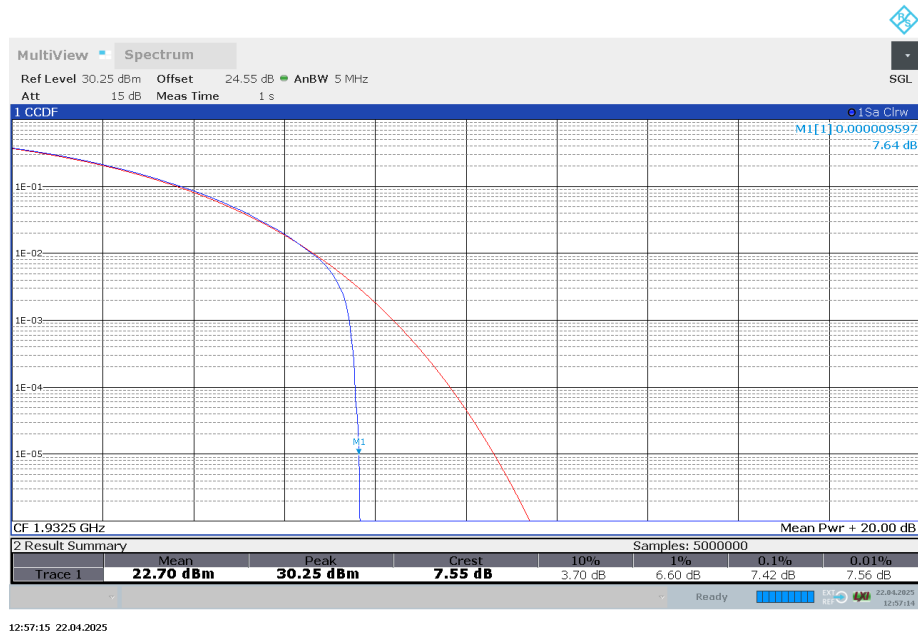


Figure 12 Test Model 1.1, Modulation QPSK, Channel Frequency 1932.5Hz, Tx port RF2-1

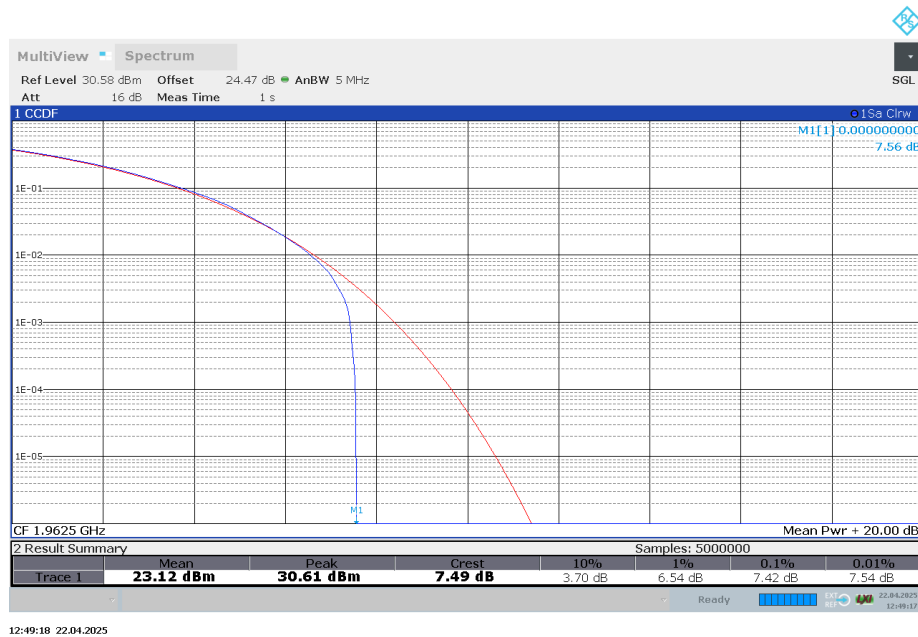


Figure 13 Test Model 3.2, Modulation 16QAM, Channel Frequency 1962.5MHz, Tx port RF2-1

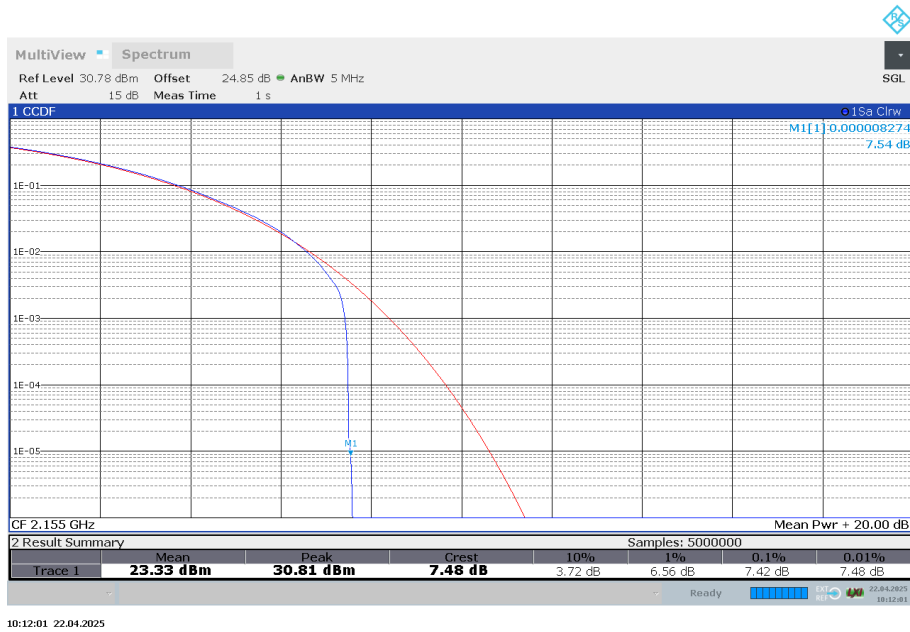


Figure 14 Test Model 3.1, Modulation 64QAM, Channel Frequency 2155MHz, Tx port RF2-4

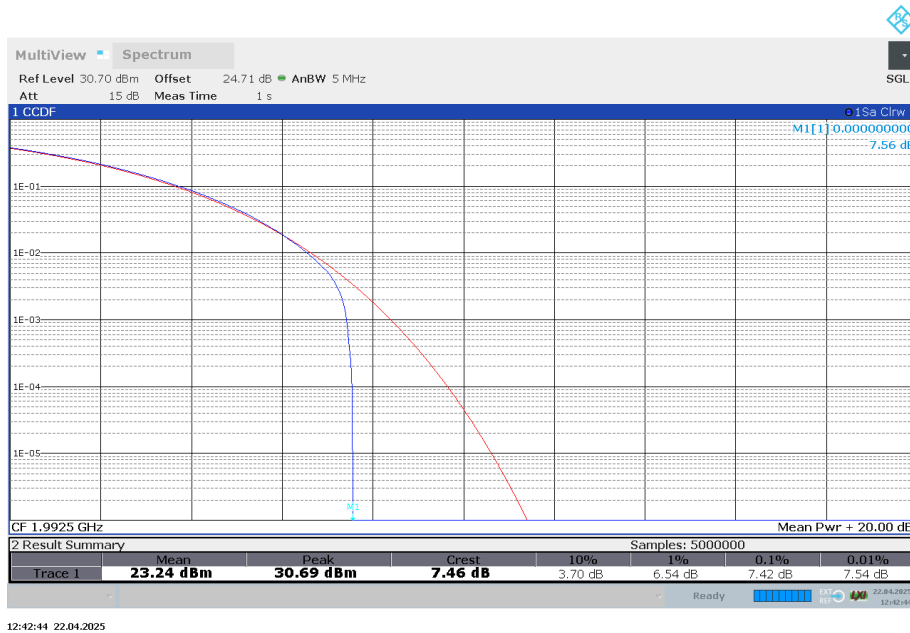


Figure 15 Test Model 3.1A, Modulation 256QAM, Channel Frequency 1992.5MHz, Tx port RF2-1

Config L: Peak-to-Average Power Ratio (PAPR) NR 10MHz BW

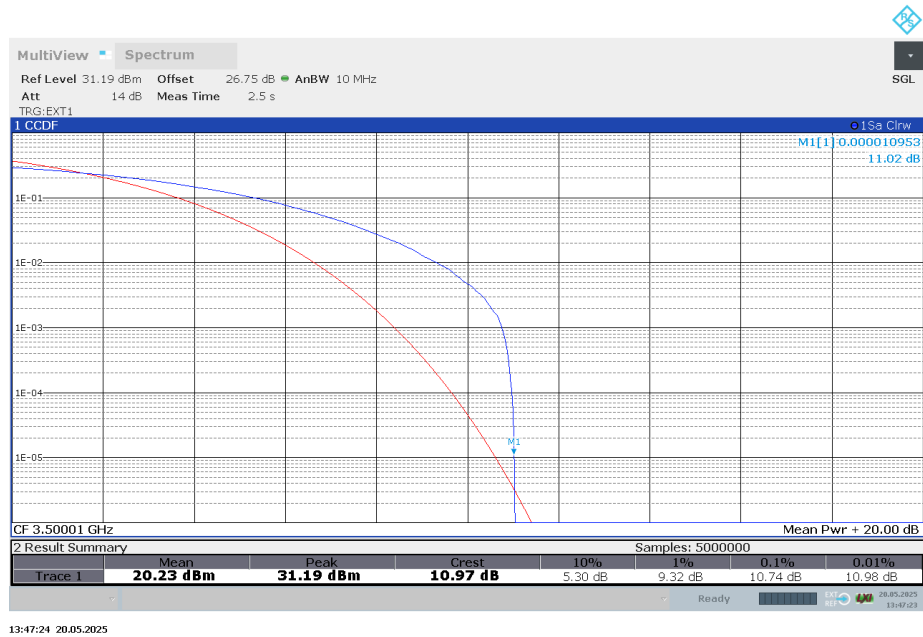


Figure 16 Test Model 1.1, Modulation QPSK, Channel Frequency 3500.01MHz, Tx port RF1-2

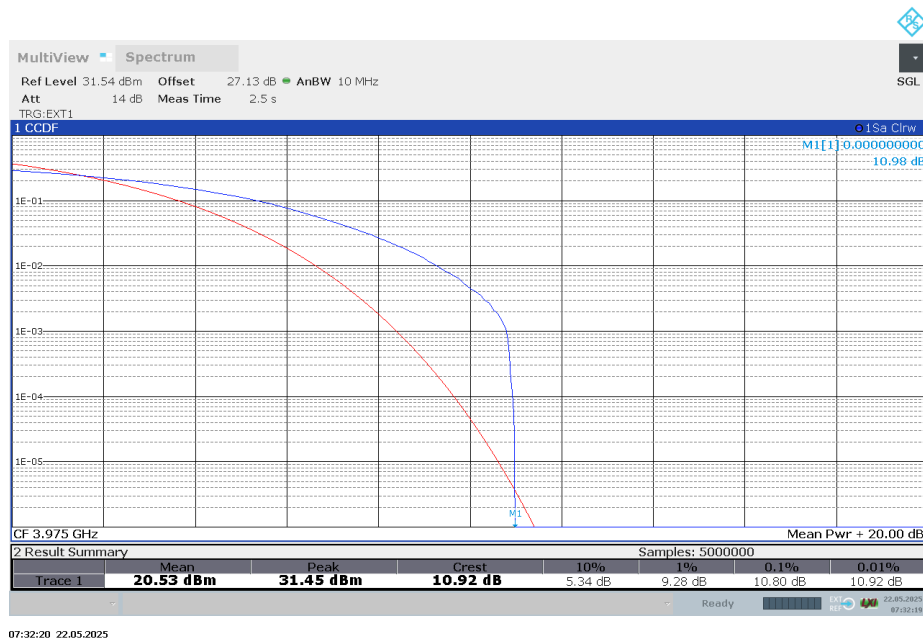


Figure 17 Test Model 3.2, Modulation 16QAM, Channel Frequency 3975MHz, Tx port RF1-4

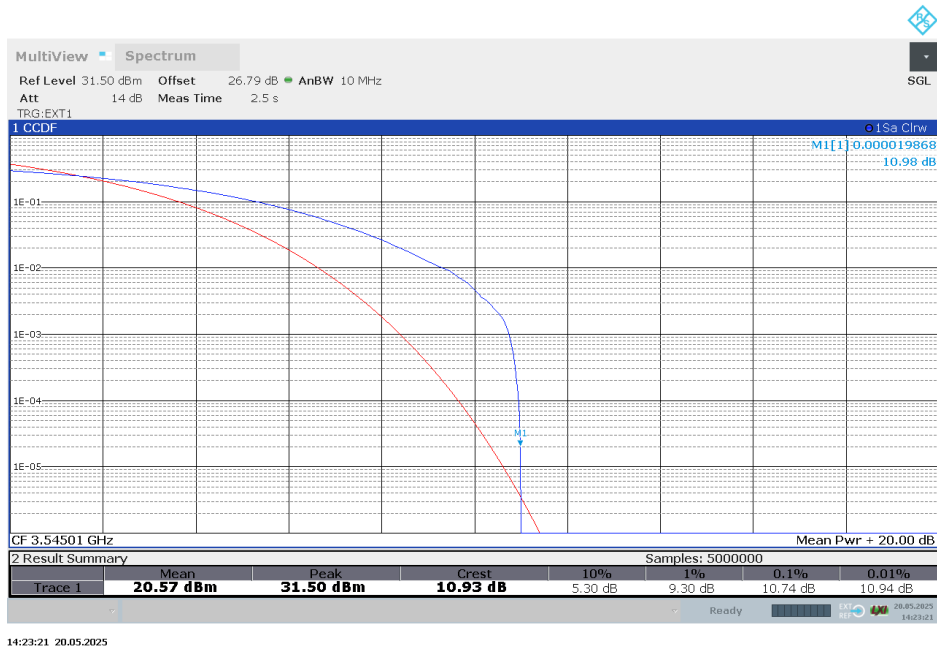


Figure 18 Test Model 3.1, Modulation 64QAM, Channel Frequency 3545.01MHz, Tx port RF1-2

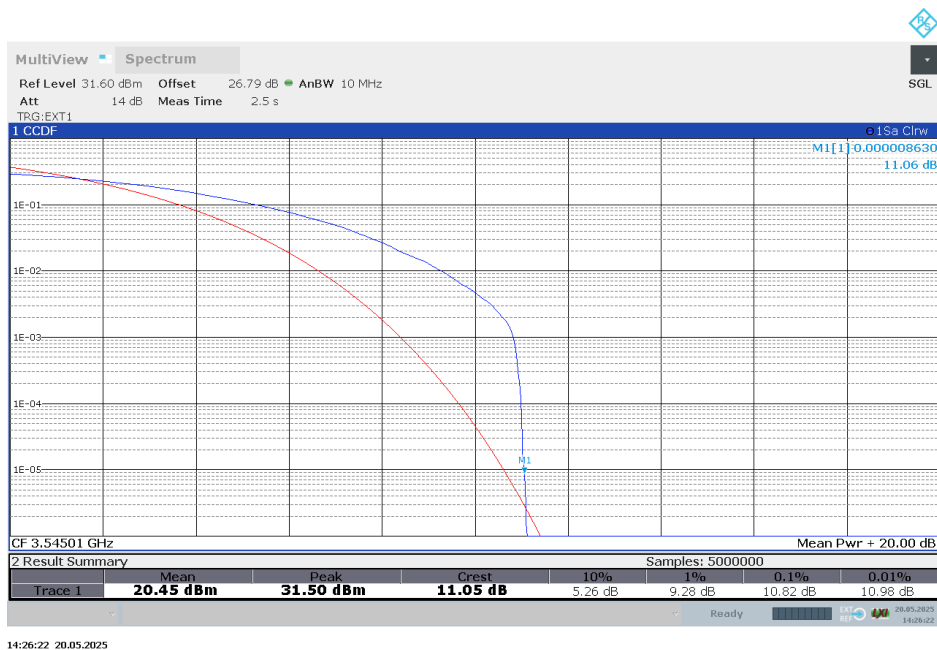


Figure 19 Test Model 3.1A, Modulation 256QAM, Channel Frequency 3545.01MHz, Tx port RF1-2

5.2.2 Test No. 2: Modulation Characteristics

No additional measurements are required for the modulation characteristics.

Screenshots below shows information about the modulations I/Q constellation form and modulation information table, displaying error to ideal modulation symbols.

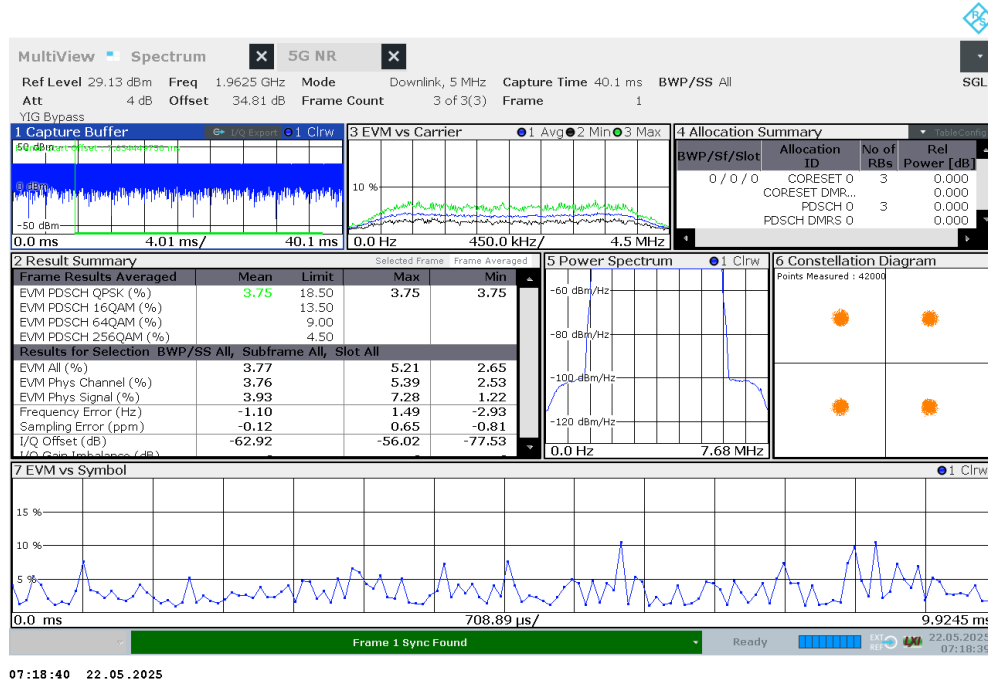


Figure 20 I/Q constellation diagram with capture buffer – QPSK (1962.5MHz) (NR 5MHz Channel BW)

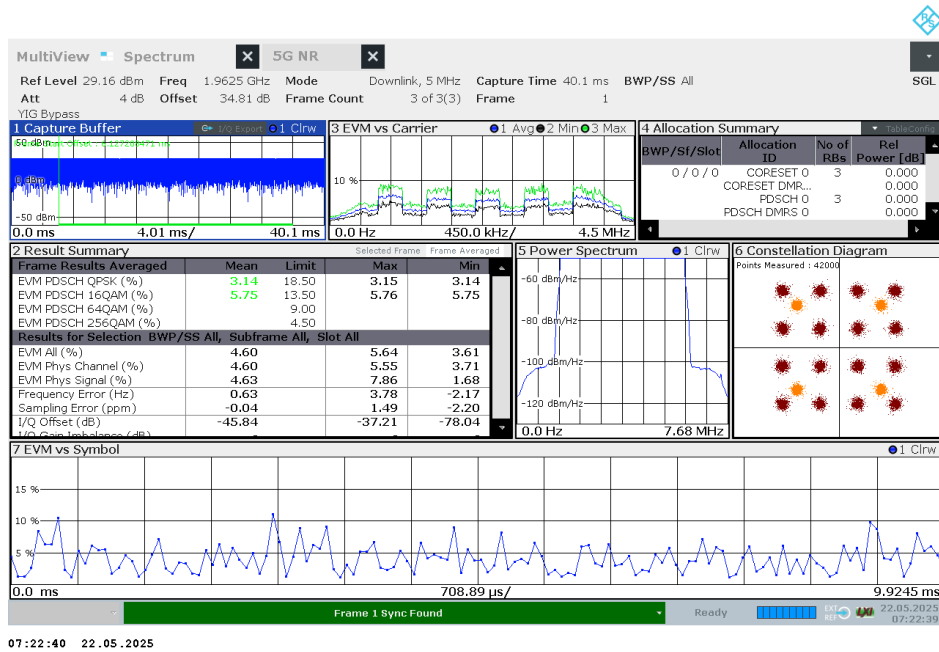


Figure 21 I/Q constellation diagram with capture buffer – 16QAM (1962.5MHz) (NR 5MHz Channel BW)

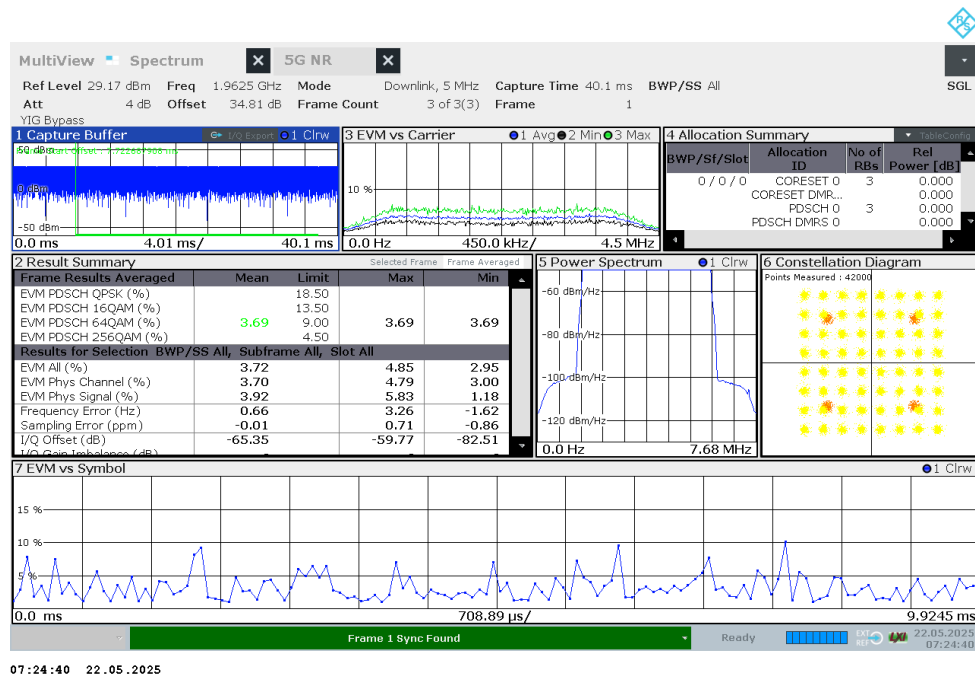


Figure 22 I/Q constellation diagram with capture buffer – 64QAM (1962.5MHz) (NR 5MHz Channel BW)

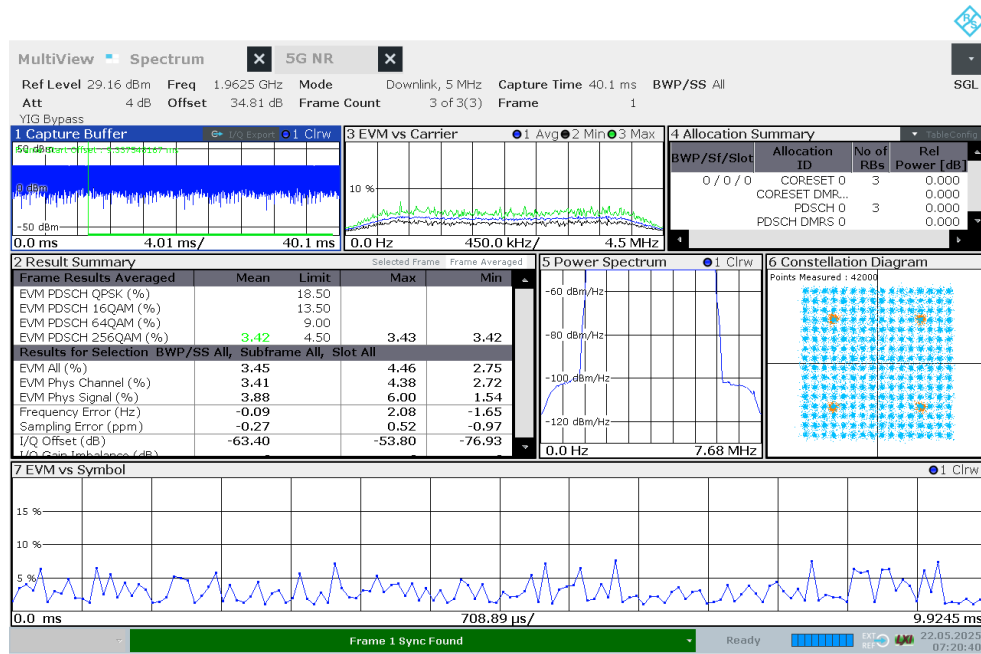


Figure 23 I/Q constellation diagram with capture buffer – 256QAM (1962.5MHz) (NR 5MHz Channel BW)

5.2.3 Test No. 3: Occupied Bandwidth

The value 'Occ Bw' is the measured occupied bandwidth.

Config A: Occupied Bandwidth LTE 5MHz BW

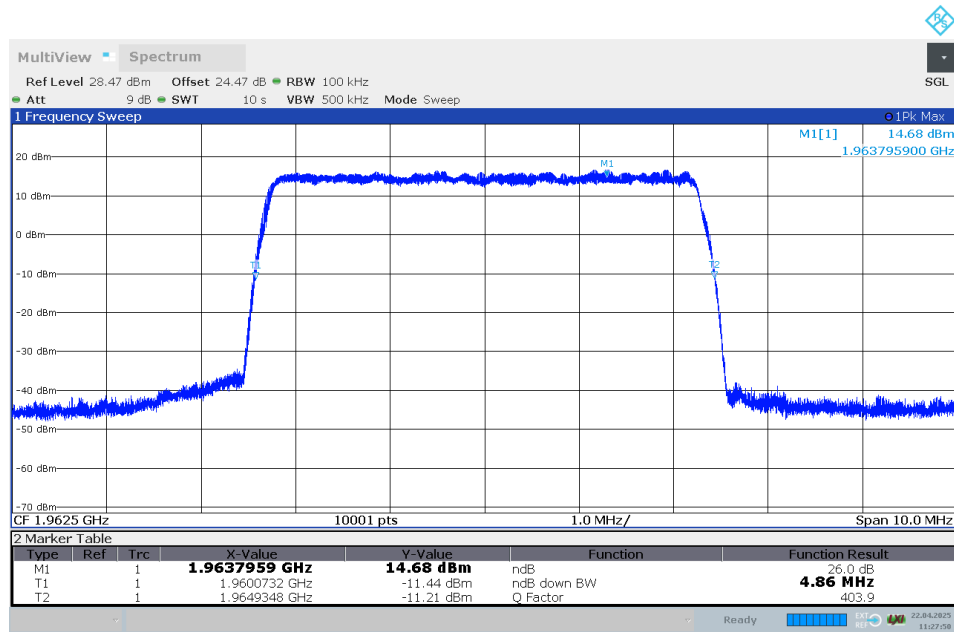


Figure 24 Test Model 1.1, Modulation QPSK, Channel Frequency 1962.5MHz, Tx port RF2-2

Config F: Occupied Bandwidth NR 5MHz BW

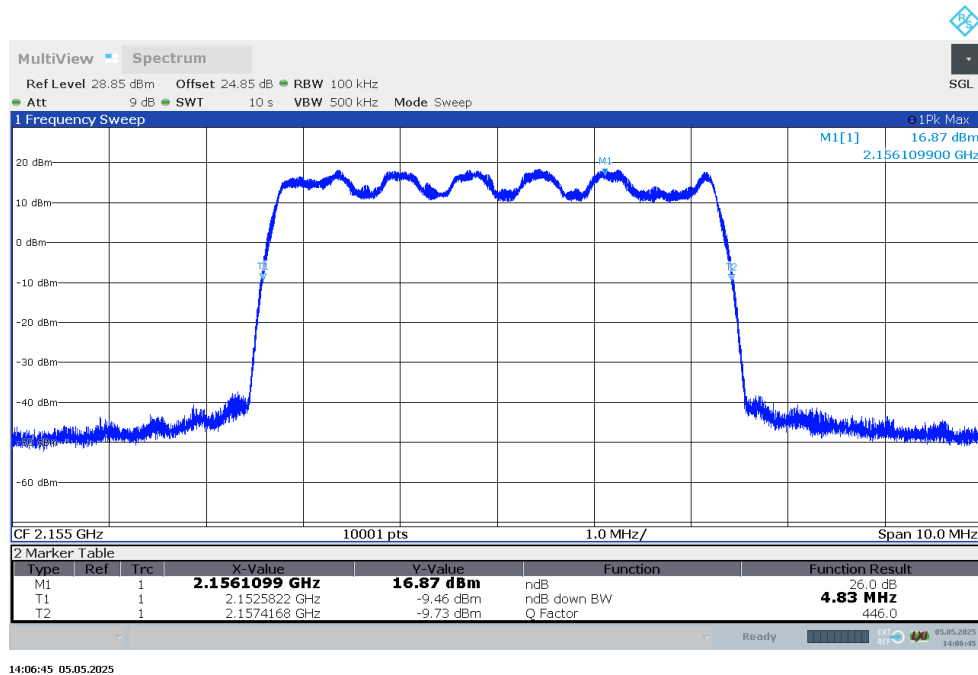


Figure 25 Test Model 3.2, Modulation 16QAM, Channel Frequency 2155MHz, Tx port RF2-3

Config G: Occupied Bandwidth NR 10MHz BW

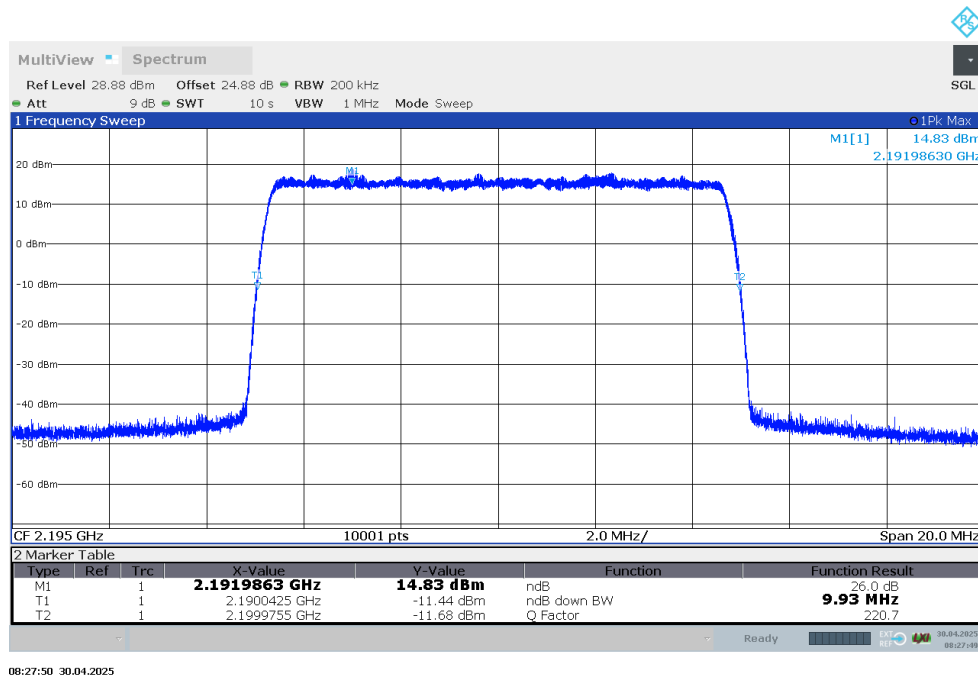


Figure 26 Test Model 3.1, Modulation 64QAM, Channel Frequency 2195MHz, Tx port RF2-3

Config L: Occupied Bandwidth NR 10MHz BW

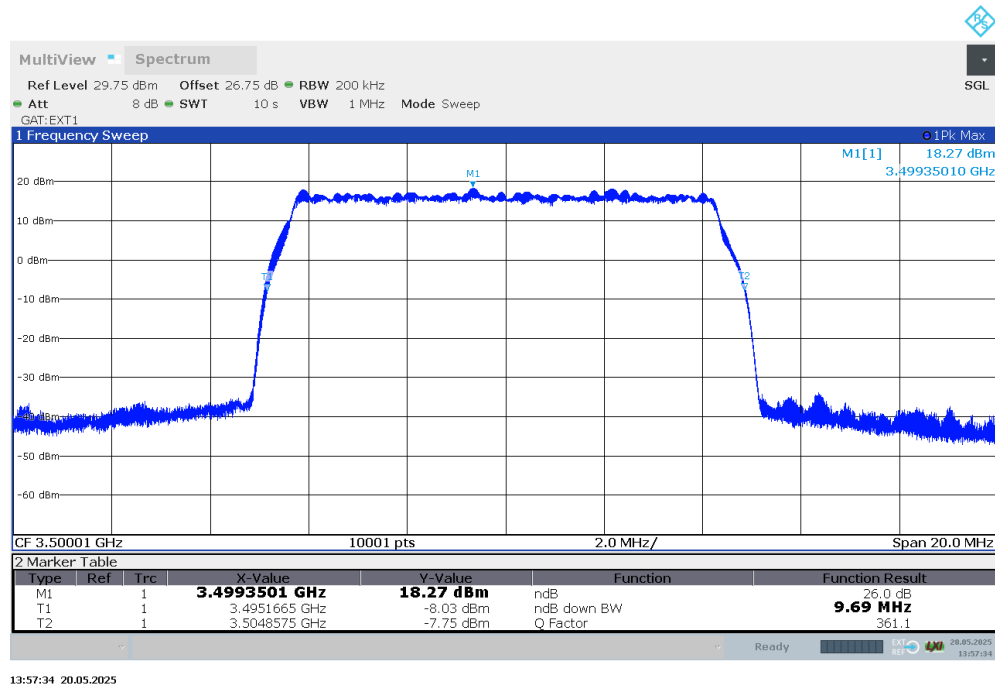
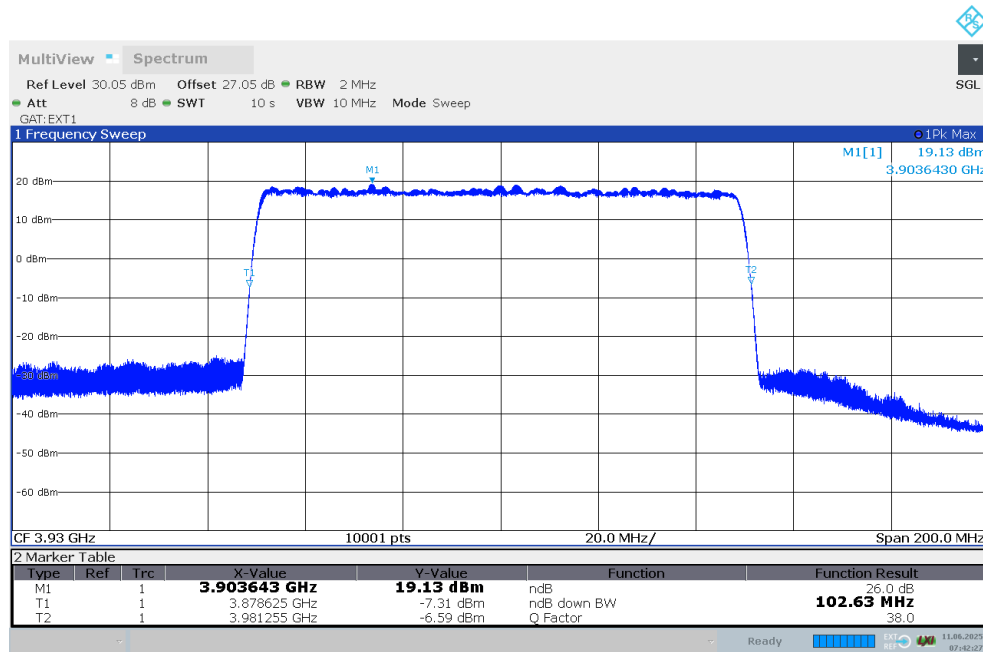


Figure 27 Test Model 3.1A, Modulation 256QAM, Channel Frequency 3500.01MHz, Tx port RF1-1

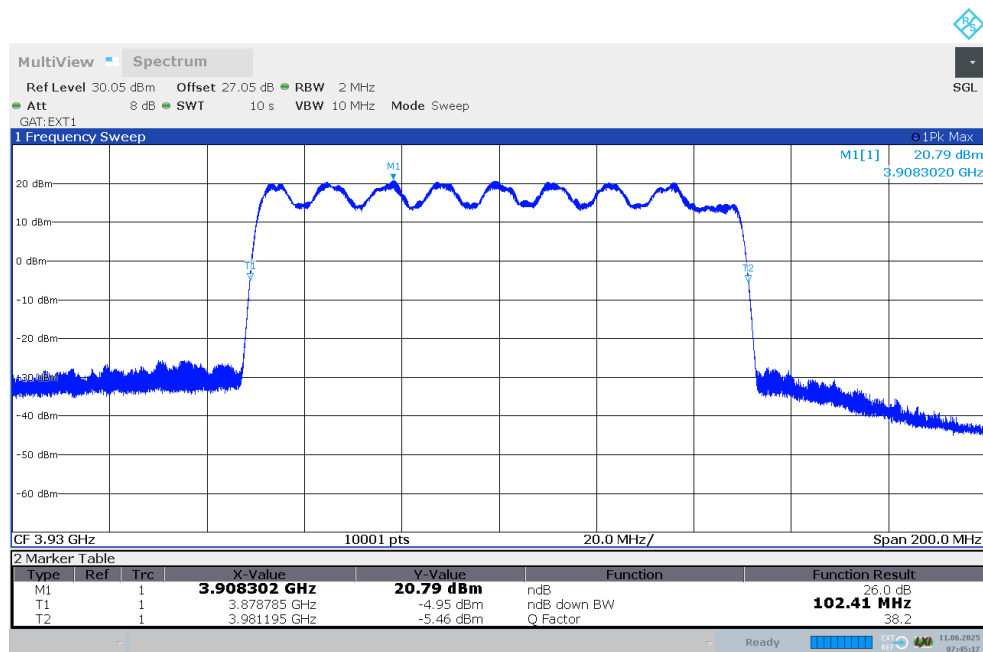
Config U: Occupied Bandwidth NR 100MHz BW



07:42:28 11.06.2025

Figure 28 Test Model 1.1, Modulation QPSK, Channel Frequency 3930MHz, Tx port RF2-4

Config U: Occupied Bandwidth NR 100MHz BW



07:45:17 11.06.2025

Figure 29 Test Model 3.2, Modulation 16QAM, Channel Frequency 3930MHz, Tx port RF1-4

Config W: Occupied Bandwidth NR 100+100MHz BW

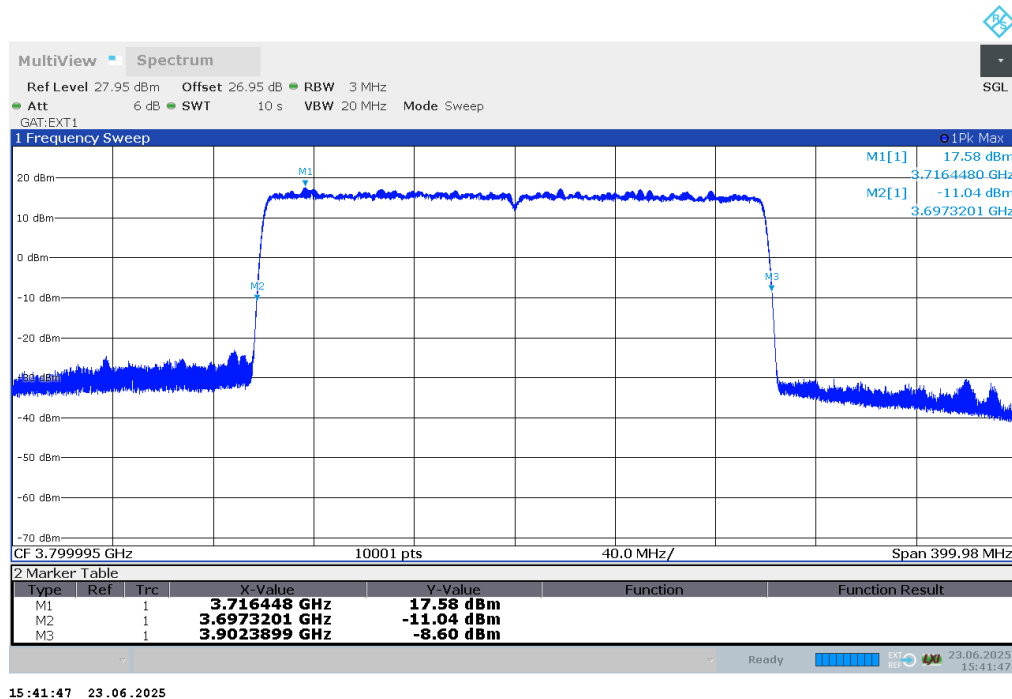


Figure 30 Test Model 3.1, Modulation 64QAM, Channel Frequency 3750MHz / 3849.99MHz, Tx Port RF1-3

Config W: Occupied Bandwidth NR 100+100MHz BW

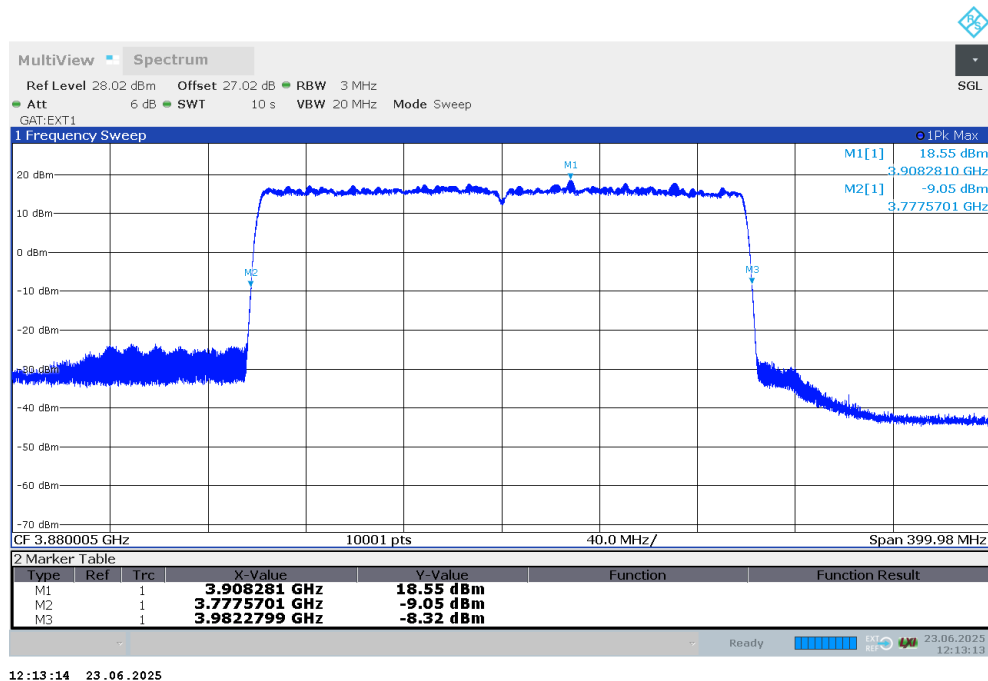


Figure 31 Test Model 3.1A, Modulation 256QAM, Channel Frequency 3830.01MHz / 3930MHz, Tx port RF1-4

5.2.4 Test No. 4: Spurious Emissions at the Antenna Terminals

Config A Tx port RF2-1:

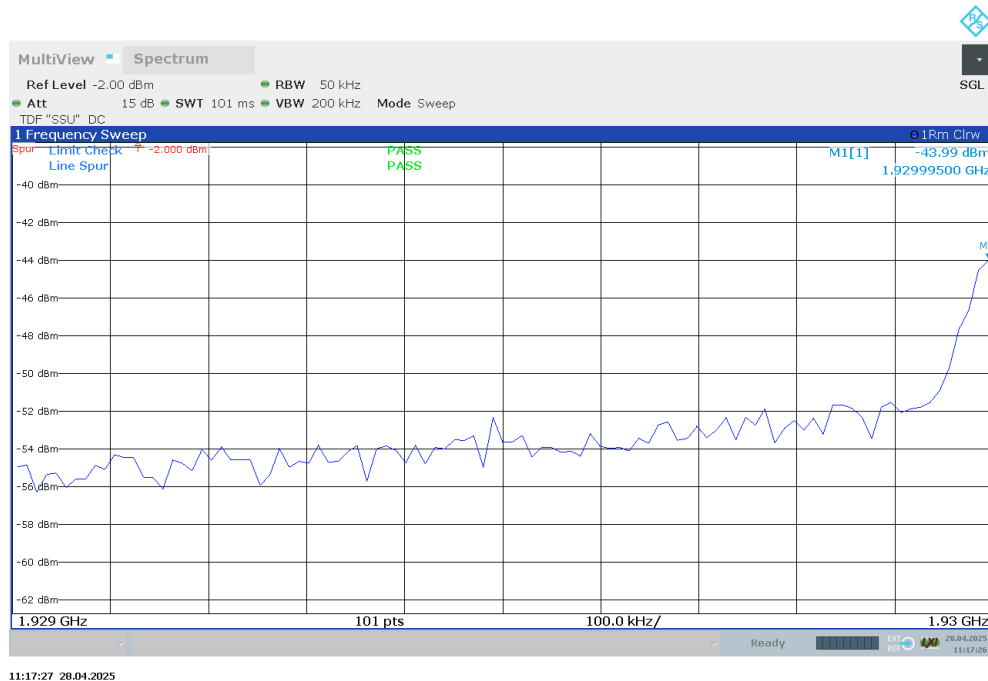


Figure 32 Spurious Emissions (Lower Band Edge 1929-1930MHz) – 16QAM (1932.5 MHz) (LTE 5MHz Channel BW)

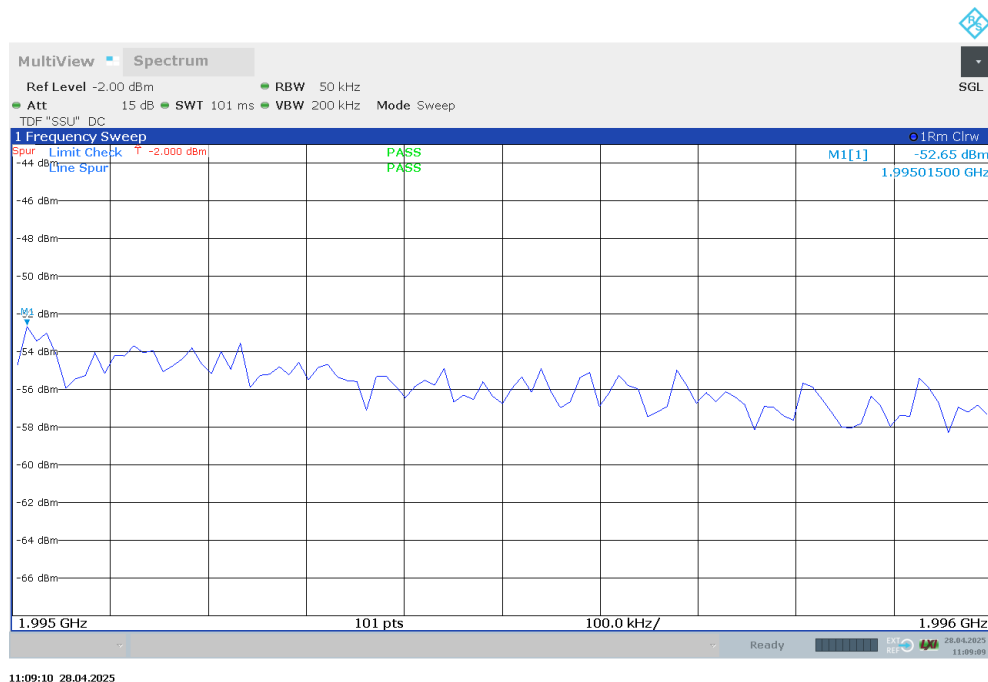


Figure 33 Spurious Emissions (Upper Band Edge 1995-1996MHz) – 16QAM (1992.5 MHz) (LTE 5MHz Channel BW)

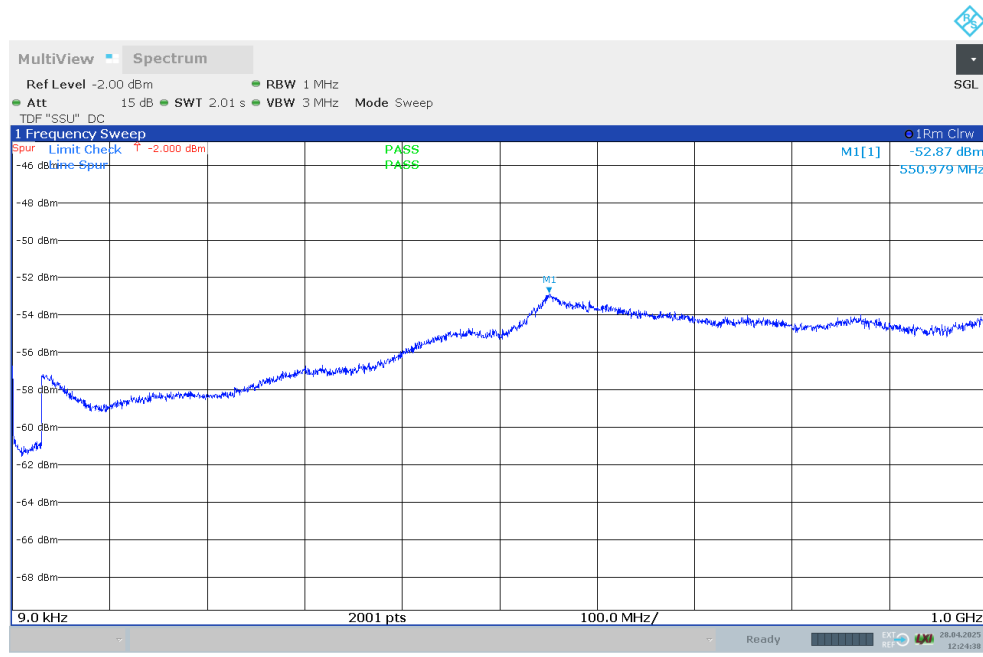


Figure 34 Spurious Emissions (9kHz–1GHz) – 16QAM (1962.5 MHz) (LTE 5MHz Channel BW)

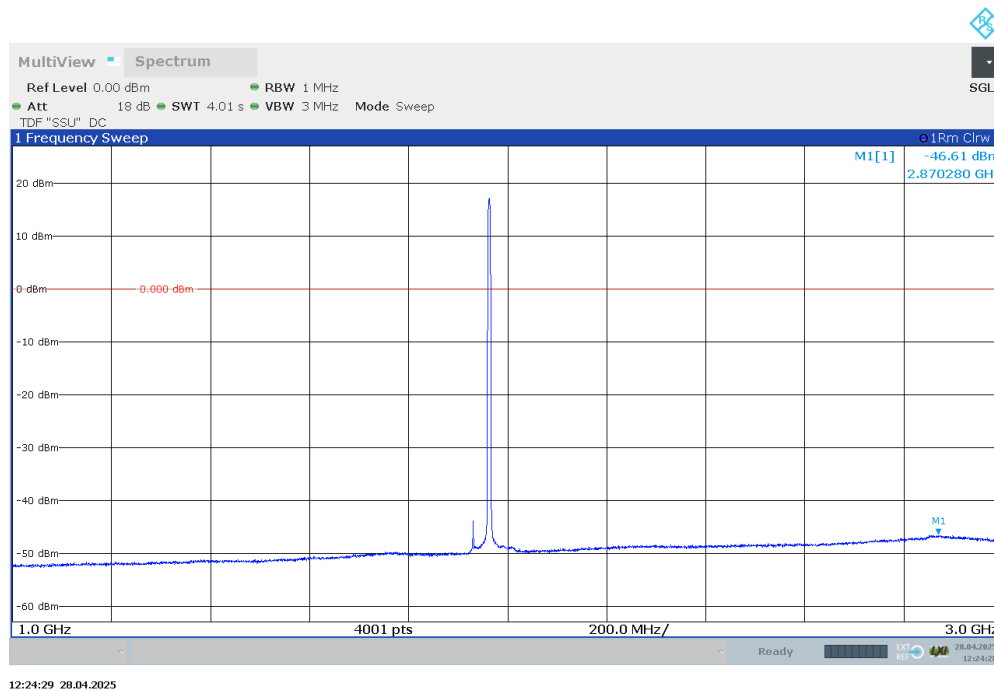


Figure 35 Spurious Emissions (1GHz–3GHz) – 16QAM (1962.5 MHz) (LTE 5MHz Channel BW)



Figure 36 Spurious Emissions (3GHz–6GHz) – 16QAM (1962.5 MHz) (LTE 5MHz Channel BW)



Figure 37 Spurious Emissions (6GHz–10GHz) – 16QAM (1962.5 MHz) (LTE 5MHz Channel BW)

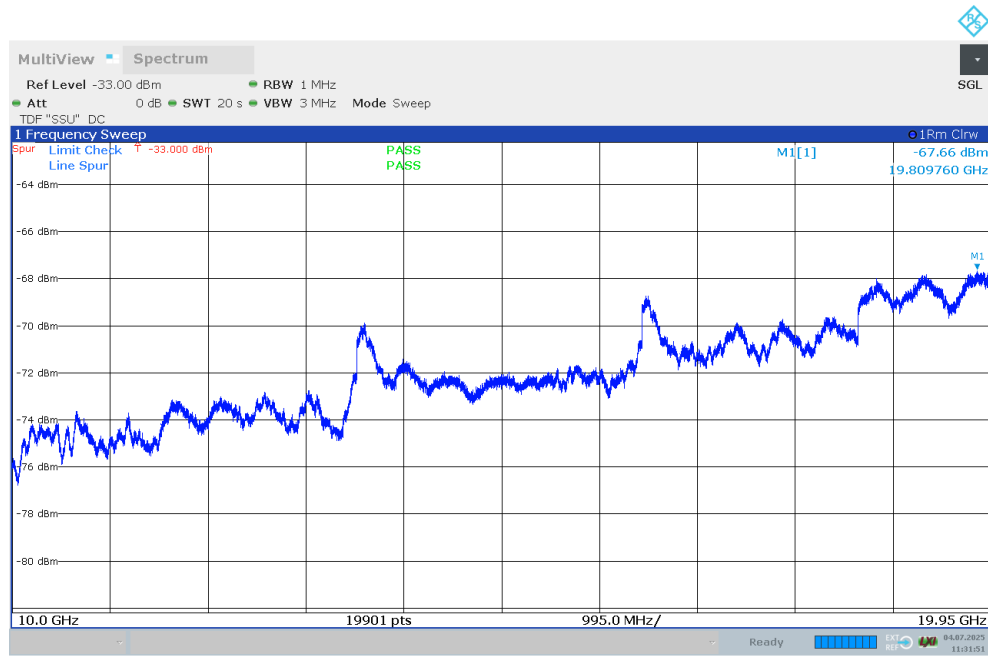


Figure 38 Spurious Emissions (10GHz-19.95GHz) – 16QAM (1962.5 MHz) (LTE 5MHz Channel BW)

Config L Tx port RF1-4:

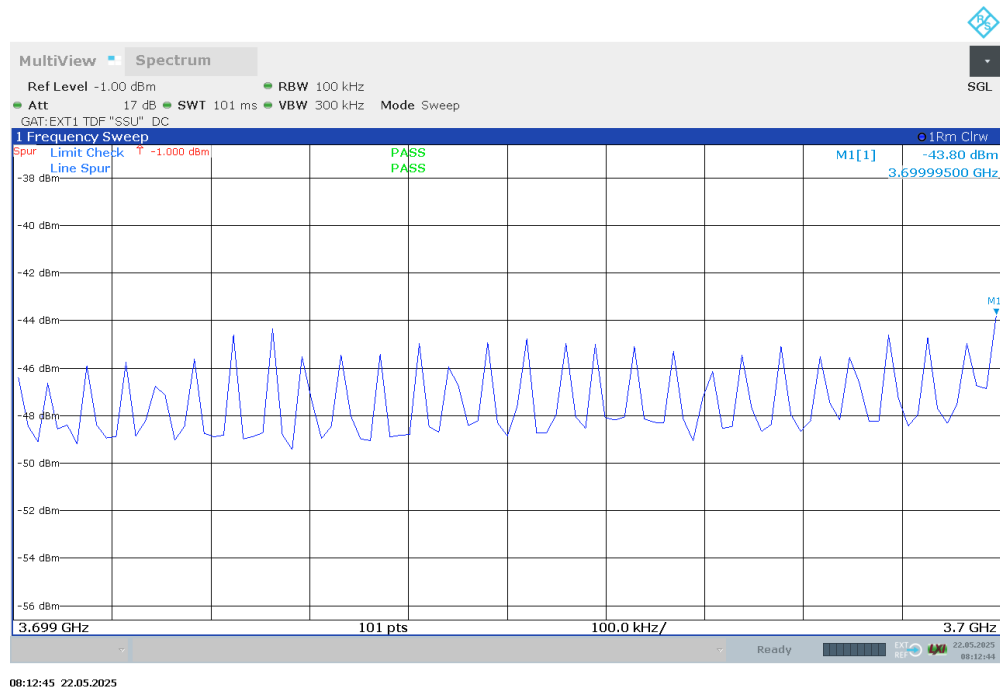


Figure 39 Spurious Emissions (Lower Band Edge 3699-3700MHz) – 16QAM (3705 MHz) (NR10MHz Channel BW)

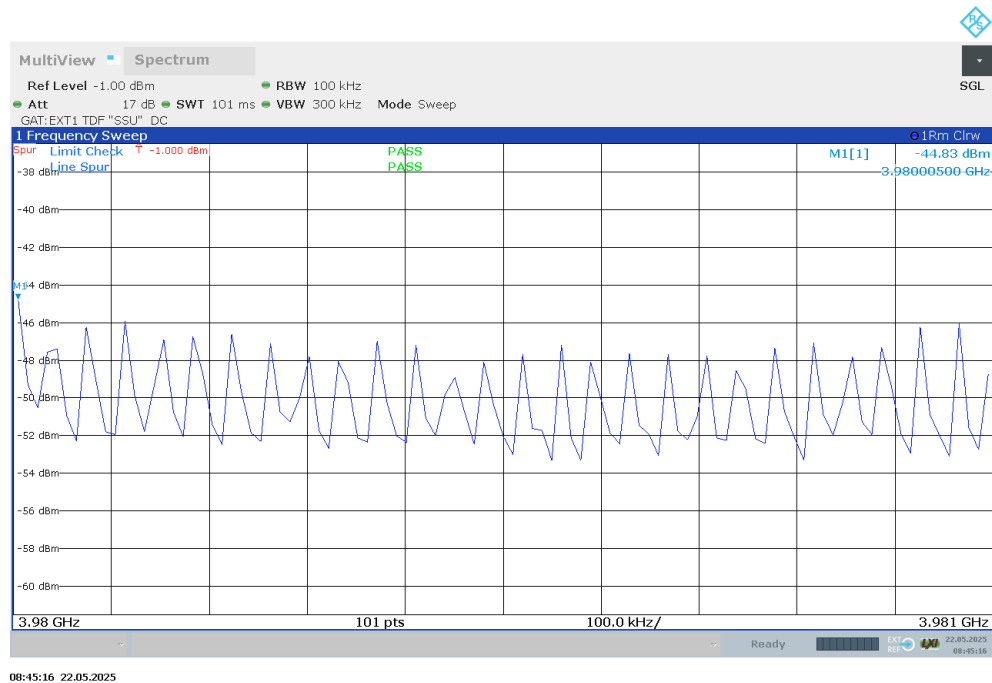


Figure 40 Spurious Emissions (Upper Band Edge 3980-3981MHz) – 16QAM 3975 MHz) (NR10 Channel BW)

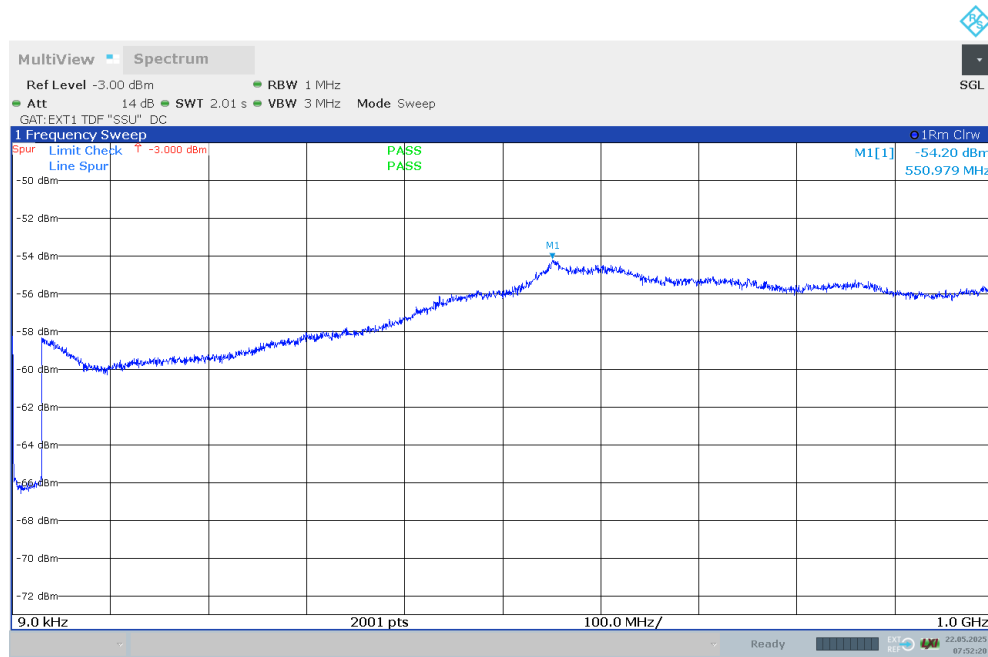


Figure 41 Spurious Emissions (9kHz–1GHz) – 16QAM (3840 MHz) (NR10MHz Channel BW)

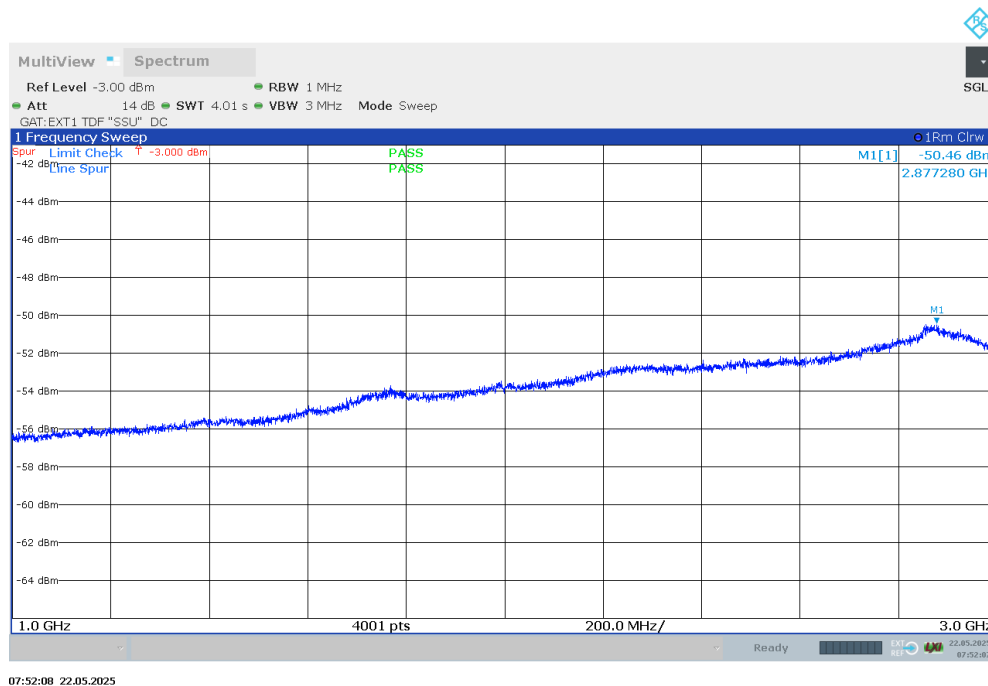


Figure 42 Spurious Emissions (1–3GHz) – 16QAM (3840 MHz) (NR10MHz Channel BW)

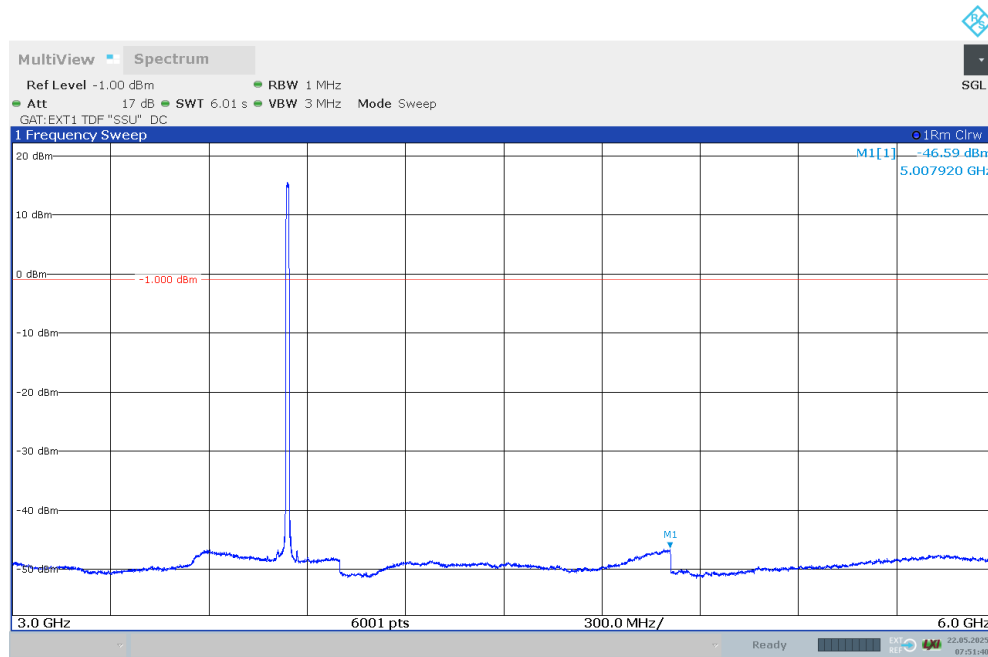


Figure 43 Spurious Emissions (3-6GHz) – 16QAM (3840 MHz) (NR10MHz Channel BW)



Figure 44 Spurious Emissions (6-10GHz) – 16QAM (3840 MHz) (NR10MHz Channel BW)



Figure 45 Spurious Emissions (10–39.8GHz) – 16QAM (3840 MHz) (NR10MHz Channel BW)

5.2.5 Test No. 5 Field Strength of Spurious Radiation

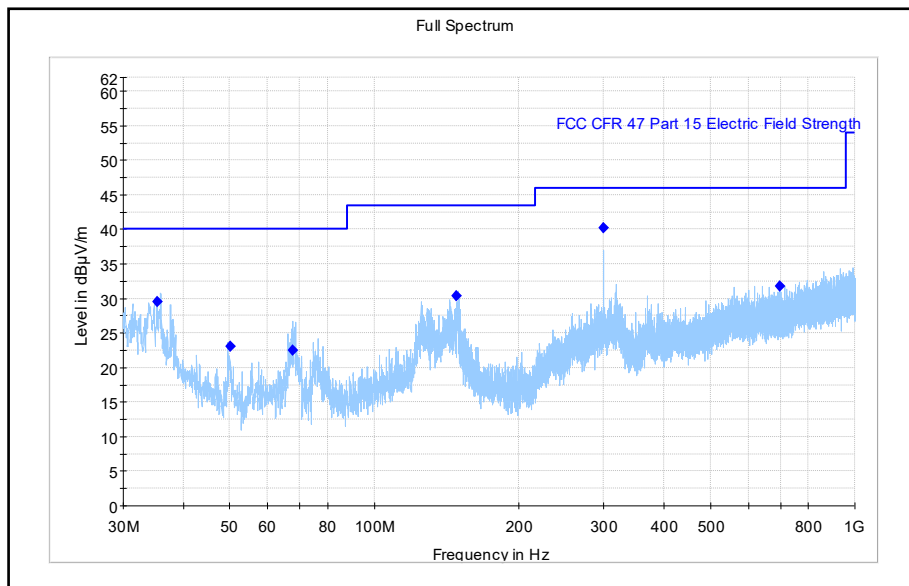


Figure 46 Field Strength of Spurious Radiation (30 MHz – 1 GHz) – QPSK (1935 / 2175 / 3605.01 / 3750 / 1992.5 / 2112.5 MHz) (10 + 10 + 100 + 10 + 5 + 5 MHz Channel BW)

Final Result

Frequency (MHz)	QuasiPeak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarisation	Angle (°)
35.404667	29.51	40.00	10.49	100.0	V	148.0
50.187000	23.10	40.00	16.90	100.0	V	137.0
67.726000	22.54	40.00	17.46	190.0	V	69.0
148.361667	30.35	43.50	13.15	171.0	H	312.0
299.985667	40.14	46.00	5.86	100.0	H	67.0
698.229333	31.76	46.00	14.24	100.0	H	162.0

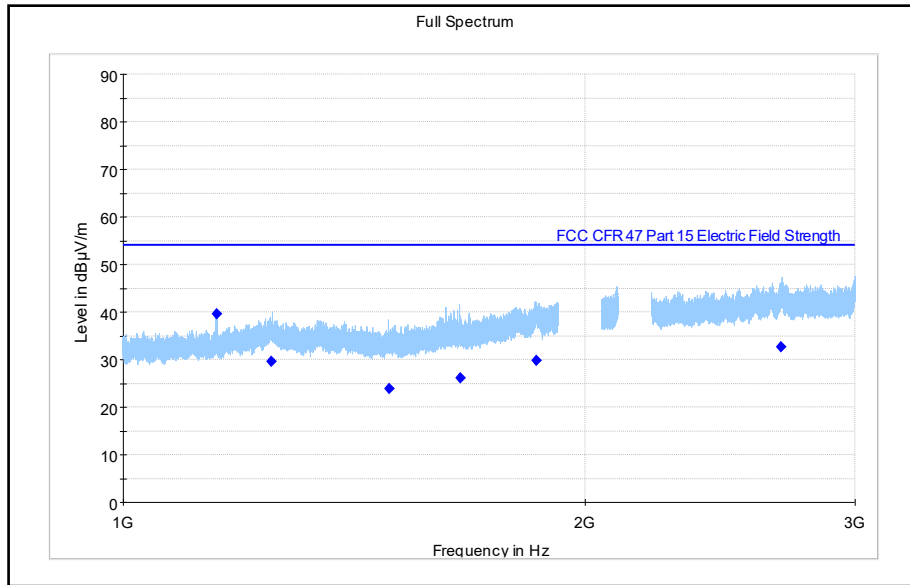


Figure 47 Field Strength of Spurious Radiation (1 GHz – 3 GHz) – QPSK (1935 / 2175 / 3605.01 / 3750 / 1992.5 / 2112.5 MHz) (10 + 10 + 100 + 10 + 5 + 5 MHz Channel BW)

Exclusion band $F_{DL_low} - \Delta f_{OBUE} < f < F_{DL_high} + \Delta f_{OBUE}$: 1920 MHz – 2005 MHz and 2100 MHz – 2210 MHz

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarisation	Angle (°)
5310.267167	32.78	54.00	21.22	247.0	V	2.0
5643.351833	32.13	54.00	21.87	186.0	H	18.0
5726.319167	31.88	54.00	22.12	107.0	H	199.0
5853.034167	32.41	54.00	21.59	100.0	V	273.0
5962.365167	33.11	54.00	20.89	100.0	V	225.0
5989.243167	32.89	54.00	21.11	209.0	H	95.0

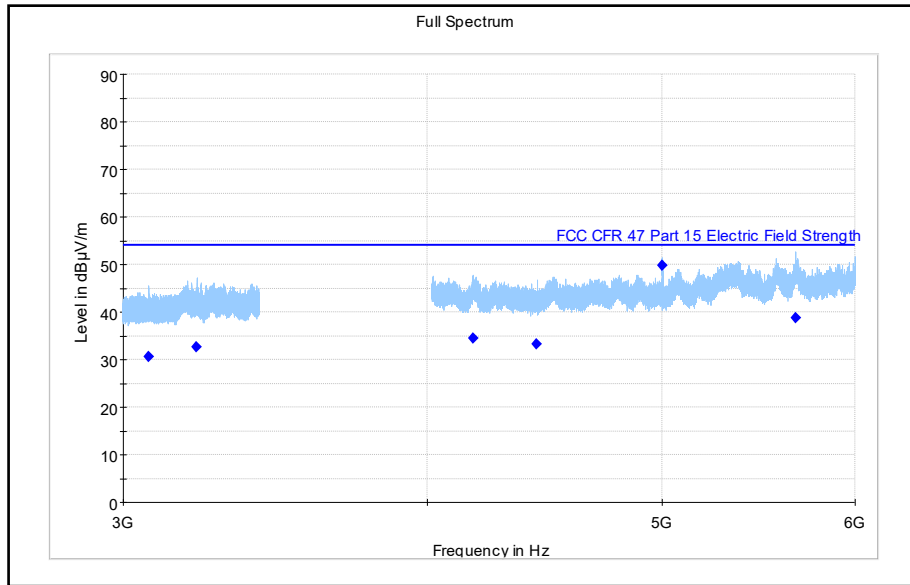


Figure 48 Field Strength of Spurious Radiation (3 GHz – 6 GHz) – QPSK (1935 / 2175 / 3605.01 / 3750 / 1992.5 / 2112.5 MHz) (10 + 10 + 100 + 10 + 5 + 5 MHz Channel BW)

Exclusion band $F_{DL_low} - \Delta f_{OBUE} < f < F_{DL_high} + \Delta f_{OBUE}$: 3410 MHz – 4020 MHz

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarisation	Angle (°)
3073.577333	30.70	54.00	23.30	130.0	V	210.0
3216.004833	32.58	54.00	21.42	150.0	V	35.0
4178.054833	34.51	54.00	19.49	143.0	V	339.0
4437.197500	33.18	54.00	20.82	131.0	V	22.0
5000.044833	49.84	54.00	4.16	207.0	H	305.0
5670.621167	38.81	54.00	15.19	229.0	H	143.0

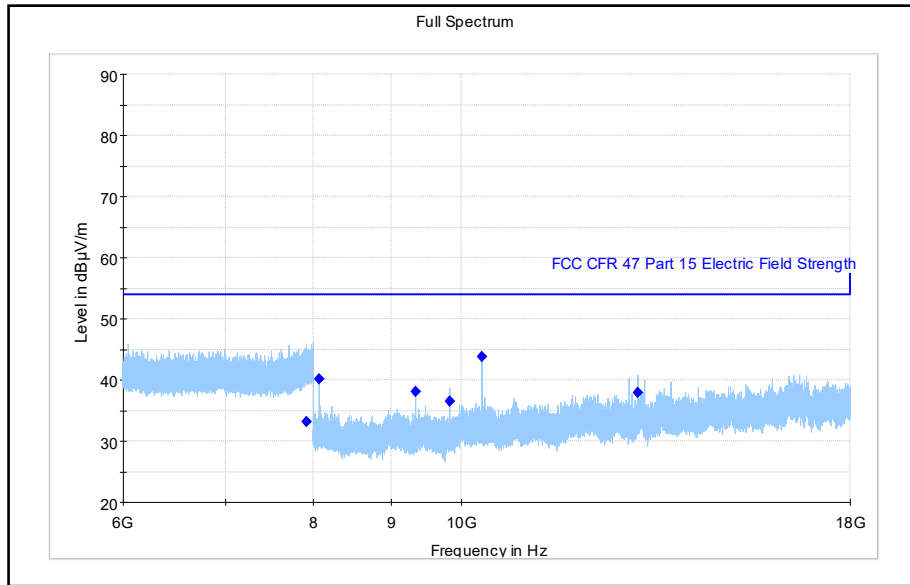


Figure 49 Field Strength of Spurious Radiation (6 GHz – 18 GHz) – QPSK (1935 / 2175 / 3605.01 / 3750 / 1992.5 / 2112.5 MHz) (10 + 10 + 100 + 10 + 5 + 5 MHz Channel BW)

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarisation	Angle (°)
7918.320000	33.11	54.00	20.89	100.0	V	172.0
8062.578972	40.15	54.00	13.85	100.0	H	61.0
9333.330240	38.16	54.00	15.84	107.0	V	1.0
9830.395668	36.53	54.00	17.47	238.0	H	330.0
10312.492200	43.86	54.00	10.14	180.0	H	45.0
13062.490508	37.92	54.00	16.08	185.0	V	32.0

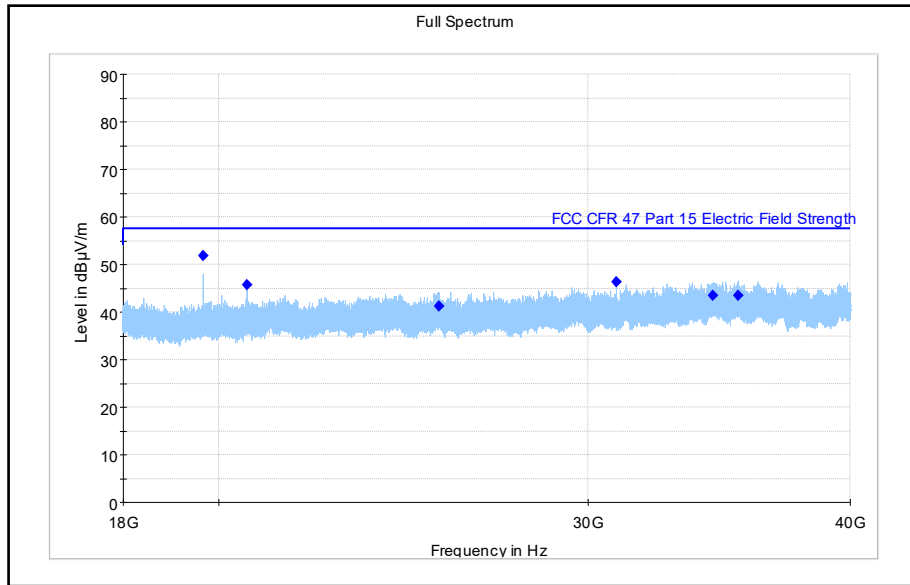


Figure 50 Field Strength of Spurious Radiation (18 GHz – 40 GHz) – QPSK (1935 / 2175 / 3605.01 / 3750 / 1992.5 / 2112.5 MHz) (10 + 10 + 100 + 10 + 5 + 5 MHz Channel BW)

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarisation	Angle (°)
19660.765240	51.90	57.50	5.60	100.0	H	75.0
20625.021508	45.70	57.50	11.80	114.0	V	49.0
25459.604132	41.15	57.50	16.35	191.0	V	195.0
30937.493160	46.34	57.50	11.16	100.0	H	120.0
34383.002148	43.41	57.50	14.09	103.0	V	59.0
35356.194252	43.54	57.50	13.96	187.0	V	15.0

Appendix A: AWHFIQB EIRP calculations

FCC EIRP Calculations for Two Port MIMO Operations for Band 25 Single NR and E-UTRA Carriers

EIRP calculations are needed at each transmitter location to optimize base station operational performance while meeting regulatory requirements. Each cell site installation needs to consider the power measurements in the radio certification report as well as site specific regulatory requirements (such as antenna height, population density, etc.), site installation parameters (line loss between antenna and radio, antenna parameters, etc.) and base station operational parameters (MIMO operational setup, carrier power level, channel bandwidth, modulation type, etc.) to optimize performance. Transmitter output power may be reduced (from maximum) by base station setup parameters. Base station antennas are selected by the customer.

The base station antenna is selected by the customer and this EIRP calculation is based upon a sample worst case antenna. The EIRP calculation is based upon Air Scale Indoor Gen3 pRRH Integrated Antenna". The maximum Band 25 gain (5.0dBi) for this antenna was used for the EIRP calculation. This antenna assembly has a pair of $\pm 45^\circ$ cross-polarized radiators used for Band 25. Two AWHFIQB transmitter outputs are connected to the antenna assembly RF inputs.

Equivalent Isotropically Radiated Power (EIRP) is calculated for two port MIMO (as specified in ANSI C63.26-2015 section 6.4 for uncorrelated output signals) from the results of power measurements (highest measured PSD for each channel bandwidth type). The maximum antenna gain was used for this calculation. The cable loss between the antenna and transmitter is site dependent and a typical loss of 1.0dB for this frequency range was used. EIRP was calculated as described in SRSP 517 clause 6.1.2. Calculations of worst-case EIRP for four port MIMO are as follows:

Parameter	E-UTRA 5 MHz Ch BW	NR 5 MHz Ch BW
Worst Case PSD/Antenna Port	17.39 dBm/MHz	17.23 dBm/MHz
Number of Ant Ports per Polarization	2	2
Total PSD per Polarization 10Log 2 = + 3dB	20.39 dBm/MHz	20.23 dBm/MHz
Cable Loss (site dependent) = 1.0dB	19.39 dBm/MHz	19.23 dBm/MHz
Dir Gain = Max Ant Gain (G_{Ant}) See Note 1	5 dBi	5 dBi
EIRP per Polarization	24.39 dBm/MHz	24.23 dBm/MHz
Number of Polarizations	2	2
EIRP Total = Y1 $\pm 45^\circ$ and Y2 $\pm 45^\circ$ See Note 2	24.39 dBm/MHz	24.23 dBm/MHz
Passing FCC EIRP Limit	62.15 dBm/MHz	62.15 dBm/MHz

FCC EIRP Calculations for Two Port MIMO Operations for Band 66 Single NR and E-UTRA Carriers

EIRP calculations are needed at each transmitter location to optimize base station operational performance while meeting regulatory requirements. Each cell site installation needs to consider the power measurements in the radio certification report as well as site specific regulatory requirements (such as antenna height, population density, etc.), site installation parameters (line loss between antenna and radio, antenna parameters, etc.) and base station operational parameters (MIMO operational setup, carrier power level, channel bandwidth, modulation type, etc.) to optimize performance. Transmitter output power may be reduced (from maximum) by base station setup parameters. Base station antennas are selected by the customer.

The base station antenna is selected by the customer and this EIRP calculation is based upon a sample worst case antenna. The EIRP calculation is based upon Air Scale Indoor Gen3 pRRH Integrated Antenna". The maximum Band 66 gain (5.0dBi) for this antenna was used for the EIRP calculation. This antenna assembly has a pair of $\pm 45^\circ$ cross-polarized radiators used for Band 66. Two AWHFIQB transmitter outputs are connected to the antenna assembly RF inputs.

Equivalent Isotropically Radiated Power (EIRP) is calculated for two port MIMO (as specified in ANSI C63.26-2015 section 6.4 for uncorrelated output signals) from the results of power measurements (highest measured PSD for each channel bandwidth type). The maximum antenna gain was used for this calculation. The cable loss between the antenna and transmitter is site dependent and a typical loss of 1.0dB for this frequency range was used. EIRP was calculated as described in SRSP 517 clause 6.1.2. Calculations of worst-case EIRP for four port MIMO are as follows:

Parameter	E-UTRA 5 MHz Ch BW	NR 5 MHz Ch BW
Worst Case PSD/Antenna Port	17.20 dBm/MHz	17.25 dBm/MHz
Number of Ant Ports per Polarization	2	2
Total PSD per Polarization 10Log 2 = + 3dB	20.20 dBm/MHz	20.25 dBm/MHz
Cable Loss (site dependent) = 1.0dB	19.20 dBm/MHz	19.25 dBm/MHz
Dir Gain = Max Ant Gain (G_{Ant}) See Note 1	5 dBi	5 dBi
EIRP per Polarization	24.20 dBm/MHz	24.25 dBm/MHz
Number of Polarizations	2	2
EIRP Total = Y1 $\pm 45^\circ$ and Y2 $\pm 45^\circ$ See Note 2	24.20 dBm/MHz	24.25 dBm/MHz
Passing FCC EIRP Limit	62.15 dBm/MHz	62.15 dBm/MHz

FCC EIRP Calculations for Four Port MIMO Operations for Band 77(3450-3550 and 3700 bands) Single NR Carriers

EIRP calculations are needed at each transmitter location to optimize base station operational performance while meeting regulatory requirements. Each cell site installation needs to consider the power measurements in the radio certification report as well as site specific regulatory requirements (such as antenna height, population density, etc.), site installation parameters (line loss between antenna and radio, antenna parameters, etc.) and base station operational parameters (MIMO operational setup, carrier power level, channel bandwidth, modulation type, etc.) to optimize performance. Transmitter output power may be reduced (from maximum) by base station setup parameters. Base station antennas are selected by the customer.

The base station antenna is selected by the customer and this EIRP calculation is based upon a sample worst case antenna. The EIRP calculation is based upon Air Scale Indoor Gen3 pRRH Integrated Antenna". The maximum Band 77 gain (5.0dBi) for this antenna was used for the EIRP calculation. This antenna assembly has a pair of $\pm 45^\circ$ cross-polarized radiators used for Band 77. Two AWHFIQB transmitter outputs are connected to the antenna assembly RF inputs.

Equivalent Isotropically Radiated Power (EIRP) is calculated for four port MIMO (as specified in ANSI C63.26-2015 section 6.4 for uncorrelated output signals) from the results of power measurements (highest measured PSD for each channel bandwidth type). The maximum antenna gain was used for this calculation. The cable loss between the antenna and transmitter is site dependent and a typical loss of 1.0dB for this frequency range was used. EIRP was calculated as described in SRSP 517 clause 6.1.2. Calculations of worst-case EIRP for four port MIMO are as follows:

Parameter	NR (3450-3550 band) 10 MHz Ch BW	NR (3700 band) 10 MHz Ch BW
Worst Case PSD/Antenna Port	15.71 dBm/MHz	15.68 dBm/MHz
Number of Ant Ports per Polarization	2	2
Total PSD per Polarization 10Log 2 = + 3dB	18.71 dBm/MHz	18.68 dBm/MHz
Cable Loss (site dependent) = 1.0dB	17.71 dBm/MHz	17.68 dBm/MHz
Dir Gain = Max Ant Gain (G_{Ant}) See Note 1	5 dBi	5 dBi
EIRP per Polarization	22.71 dBm/MHz	22.68 dBm/MHz
Number of Polarizations	2	2
EIRP Total = Y1 $\pm 45^\circ$ and Y2 $\pm 45^\circ$ See Note 2	22.71 dBm/MHz	22.68 dBm/MHz
Passing ISSED EIRP Limit	62.15 dBm/MHz	62.15 dBm/MHz



Note 1: The directional gain is equal to antenna gain since the transmit signals are completely uncorrelated. See ANSI C63.26 sections 6.4.5.2.3b) and 6.4.5.3.1b) for guidance.

Note 2: The EIRP per antenna polarity is required to be below the regulatory limit as described in ANSI C63.26-2015 section 6.4.6.3 b)2) since the two transmitter outputs to each antenna are 90 degree-phase shifted relative to each other (cross-polarized radiators).

EIRP Calculation Summary

The worst-case AWHFIQB Band 25, 66 and 77 two port/band MIMO EIRP levels using antenna assembly model “Air Scale Indoor Gen3 pRRH Integrated Antenna” are less than the FCC (62.15 dBm/MHz) EIRP Regulatory Limits.