

RF TEST REPORT

Applicant Roadeazy
FCC ID 2BKST-RZ1VH2401
Product AI Vehicle Gateway
Model RZ1
Report No. R2408A1127-R3
Issue Date October 29, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2023)/ FCC CFR47 Part 27C (2023)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 /27.50(d)(4) /27.50(b)(10) /27.50(c)(10)	PASS
2	Radiated Spurious Emission	2.1053 /27.53(h) /27.53(g) /27.53(f) /27.53(c)	PASS
Date of Testing: September 5, 2024 ~ September 11, 2024			
Date of Sample Received: August 22, 2024			
<p>Note: PASS: The EUT complies with the essential requirements in the standard.</p> <p>FAIL: The EUT does not comply with the essential requirements in the standard.</p> <p>All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.</p>			

Only Radiated Spurious Emission is tested for RZ1 in this report, and because of the change of antenna gain, Effective Radiated Power / Effective Isotropic Radiated Power also re evaluated. Other test items refer to the Module report (Report No.: 200722022RFM-1 for WCDMA and 200722022RFM-2 for LTE, FCC ID: QIPPLS83-X; Grant date: 08/30/2023).

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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2 General Description of Equipment under Test

2.1 Applicant and Manufacturer Information

Applicant	Roadeazy
Applicant address	1386 Enderby Way, Sunnyvale, CA USA
Manufacturer	Asiateco Technologies Co.
Manufacturer address	#68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China

2.2 General information

EUT Description	
Model	RZ1
IMEI	869254069966498
Hardware Version	P2
Software Version	V2
Power Supply	External power supply
Antenna Type	Internal Antenna
Antenna Gain	WCDMA Band IV: 3.8 dBi
	LTE Band 4: 3.8 dBi
	LTE Band 12: 2.7 dBi
	LTE Band 13: 1.7 dBi
	LTE Band 66: 3.8 dBi
	LTE Band 71: 4.6 dBi
Test Mode(s)	WCDMA Band IV; LTE Band 4/12/13/66/71
Test Modulation	(WCDMA) BPSK, QPSK; (LTE) QPSK, 16QAM;
HSDPA UE Category	6
HSUPA UE Category	6
LTE Category	4
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV: 26.93 dBm
	LTE Band 4: 26.91 dBm
	LTE Band 12: 23.98 dBm
	LTE Band 13: 22.86 dBm
	LTE Band 66: 27.25 dBm
	LTE Band 71: 25.72 dBm
Rated Power Supply Voltage	24V
Operating Voltage	Minimum: 9V Maximum: 32V
Operating Temperature	Lowest: -40°C Highest: +85°C

	Mode	Tx (MHz)	Rx (MHz)
Operating Frequency Range(s)	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 12	699 ~ 716	729 ~ 746
	LTE Band 13	777 ~ 787	746 ~ 756
	LTE Band 66	1710 ~ 1780	2110 ~ 2180
	LTE Band 71	663 ~ 698	617 ~ 652

Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.

3 Applied Standards

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

Test standards:

FCC CFR47 Part 27C (2023)

FCC CFR47 Part 2 (2023)

Reference standard:

ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated. Subsequently, only the worst case emissions are reported.

The following testing in WCDMA/LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below:

Test items	Modes/Modulation
	WCDMA Band IV
RF Power Output and Effective Isotropic Radiated Power	RMC/ AMR HSDPA/HSUPA DC-HSDPA
Radiated Spurious Emission	RMC

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/12/13/66/71:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 71	-	-	O	O	O	O	O	O	O	O	O	O	O	O
Radiated Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 66	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 71	-	-	O	-	-	O	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case

5.1 RF Power Output and Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

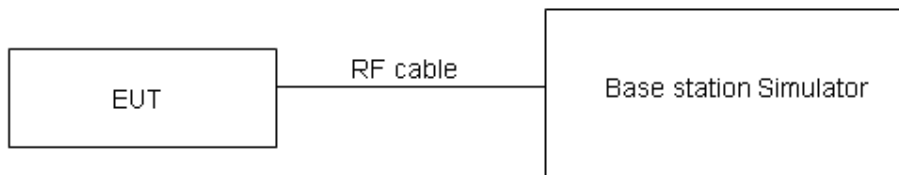
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

$$\text{EIRP (dBm)} = \text{Output Power (dBm)} + \text{Antenna Gain (dBi)}$$

$$\text{EIRP (dBm)} = \text{ERP (dBm)} + 2.15 \text{ (dB.)}$$

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(b) (10) specifies that “Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP”

Rule Part 27.50(c) (10) specifies that “Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP”

Rule Part 27.50(d) (4) specifies that “Fixed, mobile and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP”

Part 27.50(b)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(c)(10)Limit	≤ 3 W (34.77 dBm)
Part 27.50(d)(4)Limit	≤ 1 W (30 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB for RF power output, $k = 2$, $U= 1.19$ dB for ERP/EIRP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2 Radiated Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:

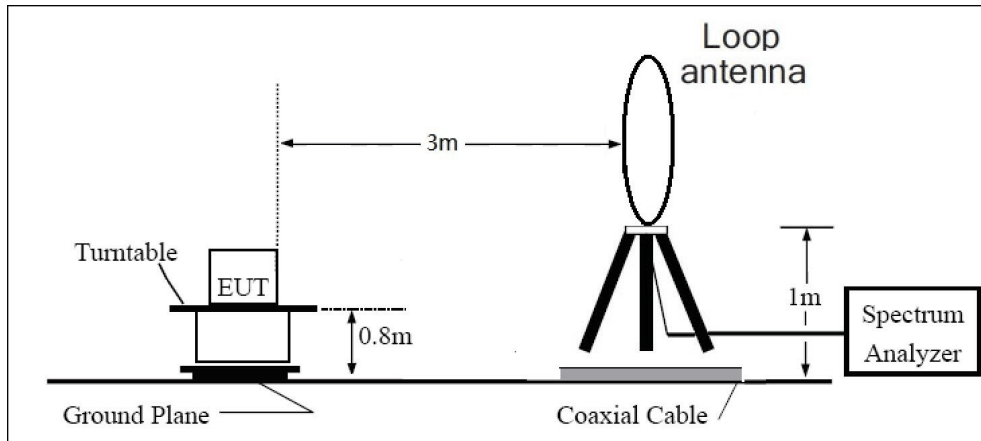
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
 The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

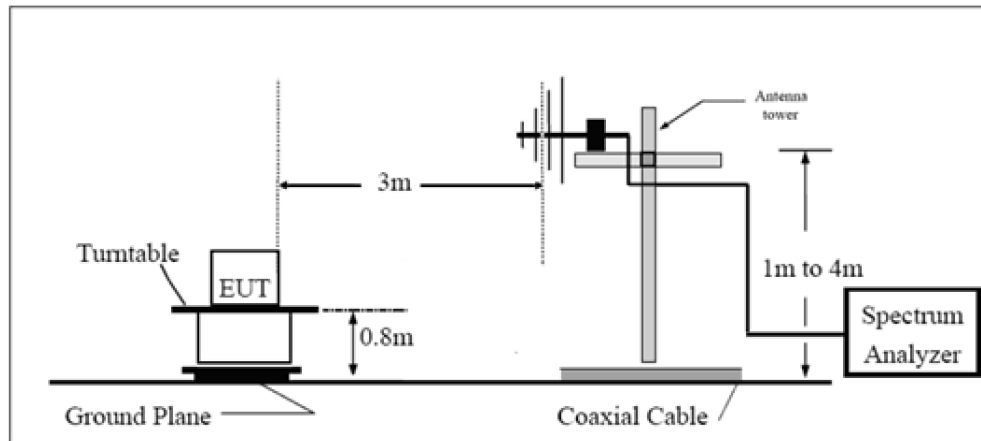
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

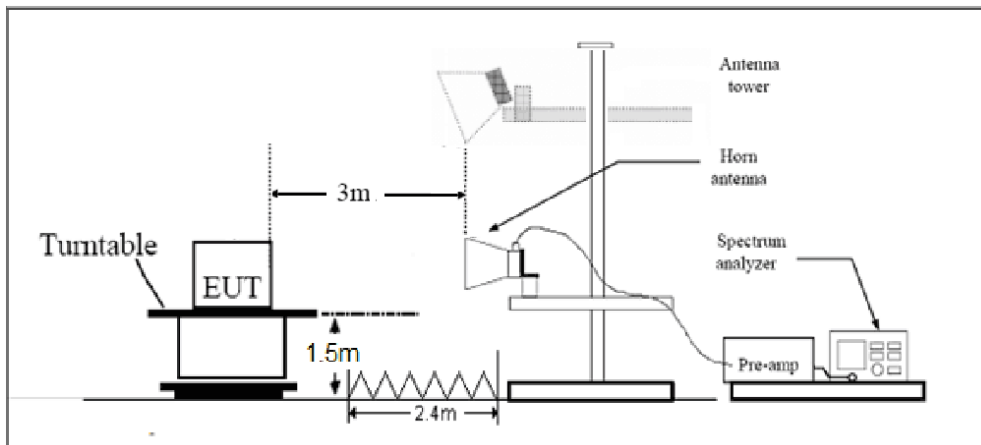
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

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

Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Part 27.53 (h)/(g) Limit		-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = \pm 1.96$, $U = \pm 3.55$ dB.

Test Results

Refer to the section 6.2 of this report for test data.

6 Test Results

6.1 RF Power Output and Effective Isotropic Radiated Power

WCDMA Band IV		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 1312	Channel 1413	Channel 1513	Channel 1312	Channel 1413	Channel 1513
		1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)	1712.4 (MHz)	1732.6 (MHz)	1752.6 (MHz)
RMC		22.88	23.13	23.06	26.68	26.93	26.86
AMR		22.78	23.04	22.93	26.58	26.84	26.73
HSDPA	Sub - Test 1	22.30	22.55	22.48	26.10	26.35	26.28
	Sub - Test 2	22.29	22.54	22.47	26.09	26.34	26.27
	Sub - Test 3	21.78	22.03	21.96	25.58	25.83	25.76
	Sub - Test 4	21.77	22.02	21.95	25.57	25.82	25.75
HSUPA	Sub - Test 1	21.26	21.51	21.44	25.06	25.31	25.24
	Sub - Test 2	19.25	19.50	19.43	23.05	23.30	23.23
	Sub - Test 3	20.23	20.49	20.42	24.03	24.29	24.22
	Sub - Test 4	19.22	19.48	19.41	23.02	23.28	23.21
	Sub - Test 5	22.71	22.97	22.90	26.51	26.77	26.70
DC-HSDPA	Sub - Test 1	22.22	22.49	22.40	26.02	26.29	26.20
	Sub - Test 2	22.21	22.48	22.39	26.01	26.28	26.19
	Sub - Test 3	21.79	21.97	21.90	25.59	25.77	25.70
	Sub - Test 4	21.78	21.96	21.89	25.58	25.76	25.69

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
LTE Band4	1.4	19957	1	#0	QPSK	22.70	26.50
LTE Band4	1.4	19957	1	#Mid	QPSK	22.89	26.69
LTE Band4	1.4	19957	1	#Max	QPSK	22.71	26.51
LTE Band4	1.4	19957	3	#0	QPSK	22.45	26.25
LTE Band4	1.4	19957	3	#Mid	QPSK	22.45	26.25
LTE Band4	1.4	19957	3	#Max	QPSK	22.37	26.17
LTE Band4	1.4	19957	6	#0	QPSK	21.37	25.17
LTE Band4	1.4	19957	1	#0	16QAM	21.48	25.28
LTE Band4	1.4	19957	1	#Mid	16QAM	21.95	25.75
LTE Band4	1.4	19957	1	#Max	16QAM	21.78	25.58
LTE Band4	1.4	19957	3	#0	16QAM	21.42	25.22
LTE Band4	1.4	19957	3	#Mid	16QAM	21.42	25.22
LTE Band4	1.4	19957	3	#Max	16QAM	21.38	25.18
LTE Band4	1.4	19957	6	#0	16QAM	20.33	24.13
LTE Band4	1.4	20175	1	#0	QPSK	22.56	26.36
LTE Band4	1.4	20175	1	#Mid	QPSK	22.75	26.55
LTE Band4	1.4	20175	1	#Max	QPSK	22.50	26.30
LTE Band4	1.4	20175	3	#0	QPSK	22.52	26.32
LTE Band4	1.4	20175	3	#Mid	QPSK	22.52	26.32
LTE Band4	1.4	20175	3	#Max	QPSK	22.47	26.27
LTE Band4	1.4	20175	6	#0	QPSK	21.39	25.19
LTE Band4	1.4	20175	1	#0	16QAM	21.34	25.14
LTE Band4	1.4	20175	1	#Mid	16QAM	21.63	25.43
LTE Band4	1.4	20175	1	#Max	16QAM	21.43	25.23
LTE Band4	1.4	20175	3	#0	16QAM	21.37	25.17
LTE Band4	1.4	20175	3	#Mid	16QAM	21.43	25.23
LTE Band4	1.4	20175	3	#Max	16QAM	21.48	25.28
LTE Band4	1.4	20175	6	#0	16QAM	20.60	24.40
LTE Band4	1.4	20393	1	#0	QPSK	22.75	26.55
LTE Band4	1.4	20393	1	#Mid	QPSK	22.96	26.76
LTE Band4	1.4	20393	1	#Max	QPSK	22.74	26.54
LTE Band4	1.4	20393	3	#0	QPSK	22.52	26.32
LTE Band4	1.4	20393	3	#Mid	QPSK	22.52	26.32
LTE Band4	1.4	20393	3	#Max	QPSK	22.51	26.31
LTE Band4	1.4	20393	6	#0	QPSK	21.57	25.37
LTE Band4	1.4	20393	1	#0	16QAM	21.26	25.06
LTE Band4	1.4	20393	1	#Mid	16QAM	21.43	25.23
LTE Band4	1.4	20393	1	#Max	16QAM	21.30	25.10
LTE Band4	1.4	20393	3	#0	16QAM	21.64	25.44
LTE Band4	1.4	20393	3	#Mid	16QAM	21.64	25.44

LTE Band4	1.4	20393	3	#Max	16QAM	21.65	25.45
LTE Band4	1.4	20393	6	#0	16QAM	20.68	24.48
LTE Band4	3	19965	1	#0	QPSK	22.34	26.14
LTE Band4	3	19965	1	#Mid	QPSK	22.34	26.14
LTE Band4	3	19965	1	#Max	QPSK	22.16	25.96
LTE Band4	3	19965	8	#0	QPSK	21.42	25.22
LTE Band4	3	19965	8	#Mid	QPSK	21.42	25.22
LTE Band4	3	19965	8	#Max	QPSK	21.32	25.12
LTE Band4	3	19965	15	#0	QPSK	21.39	25.19
LTE Band4	3	19965	1	#0	16QAM	21.40	25.20
LTE Band4	3	19965	1	#Mid	16QAM	21.34	25.14
LTE Band4	3	19965	1	#Max	16QAM	21.23	25.03
LTE Band4	3	19965	8	#0	16QAM	20.36	24.16
LTE Band4	3	19965	8	#Mid	16QAM	20.36	24.16
LTE Band4	3	19965	8	#Max	16QAM	20.28	24.08
LTE Band4	3	19965	15	#0	16QAM	20.27	24.07
LTE Band4	3	20175	1	#0	QPSK	22.38	26.18
LTE Band4	3	20175	1	#Mid	QPSK	22.52	26.32
LTE Band4	3	20175	1	#Max	QPSK	22.46	26.26
LTE Band4	3	20175	8	#0	QPSK	21.36	25.16
LTE Band4	3	20175	8	#Mid	QPSK	21.36	25.16
LTE Band4	3	20175	8	#Max	QPSK	21.42	25.22
LTE Band4	3	20175	15	#0	QPSK	21.44	25.24
LTE Band4	3	20175	1	#0	16QAM	21.71	25.51
LTE Band4	3	20175	1	#Mid	16QAM	21.83	25.63
LTE Band4	3	20175	1	#Max	16QAM	21.81	25.61
LTE Band4	3	20175	8	#0	16QAM	20.51	24.31
LTE Band4	3	20175	8	#Mid	16QAM	20.51	24.31
LTE Band4	3	20175	8	#Max	16QAM	20.57	24.37
LTE Band4	3	20175	15	#0	16QAM	20.38	24.18
LTE Band4	3	20385	1	#0	QPSK	22.51	26.31
LTE Band4	3	20385	1	#Mid	QPSK	22.59	26.39
LTE Band4	3	20385	1	#Max	QPSK	22.55	26.35
LTE Band4	3	20385	8	#0	QPSK	21.52	25.32
LTE Band4	3	20385	8	#Mid	QPSK	21.52	25.32
LTE Band4	3	20385	8	#Max	QPSK	21.48	25.28
LTE Band4	3	20385	15	#0	QPSK	21.56	25.36
LTE Band4	3	20385	1	#0	16QAM	21.45	25.25
LTE Band4	3	20385	1	#Mid	16QAM	21.51	25.31
LTE Band4	3	20385	1	#Max	16QAM	21.29	25.09
LTE Band4	3	20385	8	#0	16QAM	20.44	24.24
LTE Band4	3	20385	8	#Mid	16QAM	20.46	24.26
LTE Band4	3	20385	8	#Max	16QAM	20.40	24.20

LTE Band4	3	20385	15	#0	16QAM	20.58	24.38
LTE Band4	5	19975	1	#0	QPSK	22.27	26.07
LTE Band4	5	19975	1	#Mid	QPSK	22.22	26.02
LTE Band4	5	19975	1	#Max	QPSK	22.09	25.89
LTE Band4	5	19975	12	#0	QPSK	21.39	25.19
LTE Band4	5	19975	12	#Mid	QPSK	21.39	25.19
LTE Band4	5	19975	12	#Max	QPSK	21.19	24.99
LTE Band4	5	19975	25	#0	QPSK	21.27	25.07
LTE Band4	5	19975	1	#0	16QAM	21.50	25.30
LTE Band4	5	19975	1	#Mid	16QAM	21.35	25.15
LTE Band4	5	19975	1	#Max	16QAM	20.79	24.59
LTE Band4	5	19975	12	#0	16QAM	20.46	24.26
LTE Band4	5	19975	12	#Mid	16QAM	20.46	24.26
LTE Band4	5	19975	12	#Max	16QAM	20.26	24.06
LTE Band4	5	19975	25	#0	16QAM	20.39	24.19
LTE Band4	5	20175	1	#0	QPSK	22.46	26.26
LTE Band4	5	20175	1	#Mid	QPSK	22.60	26.40
LTE Band4	5	20175	1	#Max	QPSK	22.46	26.26
LTE Band4	5	20175	12	#0	QPSK	21.51	25.31
LTE Band4	5	20175	12	#Mid	QPSK	21.52	25.32
LTE Band4	5	20175	12	#Max	QPSK	21.52	25.32
LTE Band4	5	20175	25	#0	QPSK	21.45	25.25
LTE Band4	5	20175	1	#0	16QAM	21.38	25.18
LTE Band4	5	20175	1	#Mid	16QAM	21.78	25.58
LTE Band4	5	20175	1	#Max	16QAM	21.65	25.45
LTE Band4	5	20175	12	#0	16QAM	20.26	24.06
LTE Band4	5	20175	12	#Mid	16QAM	20.27	24.07
LTE Band4	5	20175	12	#Max	16QAM	20.39	24.19
LTE Band4	5	20175	25	#0	16QAM	20.33	24.13
LTE Band4	5	20375	1	#0	QPSK	22.41	26.21
LTE Band4	5	20375	1	#Mid	QPSK	22.49	26.29
LTE Band4	5	20375	1	#Max	QPSK	22.35	26.15
LTE Band4	5	20375	12	#0	QPSK	21.71	25.51
LTE Band4	5	20375	12	#Mid	QPSK	21.70	25.50
LTE Band4	5	20375	12	#Max	QPSK	21.66	25.46
LTE Band4	5	20375	25	#0	QPSK	21.71	25.51
LTE Band4	5	20375	1	#0	16QAM	21.62	25.42
LTE Band4	5	20375	1	#Mid	16QAM	21.70	25.50
LTE Band4	5	20375	1	#Max	16QAM	21.59	25.39
LTE Band4	5	20375	12	#0	16QAM	20.65	24.45
LTE Band4	5	20375	12	#Mid	16QAM	20.66	24.46
LTE Band4	5	20375	12	#Max	16QAM	20.68	24.48
LTE Band4	5	20375	25	#0	16QAM	20.72	24.52

LTE Band4	10	20000	1	#0	QPSK	22.11	25.91
LTE Band4	10	20000	1	#Mid	QPSK	22.16	25.96
LTE Band4	10	20000	1	#Max	QPSK	22.16	25.96
LTE Band4	10	20000	25	#0	QPSK	21.44	25.24
LTE Band4	10	20000	25	#Mid	QPSK	21.44	25.24
LTE Band4	10	20000	25	#Max	QPSK	21.12	24.92
LTE Band4	10	20000	50	#0	QPSK	21.18	24.98
LTE Band4	10	20000	1	#0	16QAM	21.48	25.28
LTE Band4	10	20000	1	#Mid	16QAM	21.62	25.42
LTE Band4	10	20000	1	#Max	16QAM	20.83	24.63
LTE Band4	10	20000	25	#0	16QAM	20.57	24.37
LTE Band4	10	20000	25	#Mid	16QAM	20.57	24.37
LTE Band4	10	20000	25	#Max	16QAM	20.27	24.07
LTE Band4	10	20000	50	#0	16QAM	20.16	23.96
LTE Band4	10	20175	1	#0	QPSK	22.35	26.15
LTE Band4	10	20175	1	#Mid	QPSK	22.68	26.48
LTE Band4	10	20175	1	#Max	QPSK	22.31	26.11
LTE Band4	10	20175	25	#0	QPSK	21.41	25.21
LTE Band4	10	20175	25	#Mid	QPSK	21.42	25.22
LTE Band4	10	20175	25	#Max	QPSK	21.55	25.35
LTE Band4	10	20175	50	#0	QPSK	21.44	25.24
LTE Band4	10	20175	1	#0	16QAM	21.88	25.68
LTE Band4	10	20175	1	#Mid	16QAM	22.64	26.44
LTE Band4	10	20175	1	#Max	16QAM	21.96	25.76
LTE Band4	10	20175	25	#0	16QAM	20.67	24.47
LTE Band4	10	20175	25	#Mid	16QAM	20.67	24.47
LTE Band4	10	20175	25	#Max	16QAM	20.79	24.59
LTE Band4	10	20175	50	#0	16QAM	20.55	24.35
LTE Band4	10	20350	1	#0	QPSK	22.68	26.48
LTE Band4	10	20350	1	#Mid	QPSK	23.11	26.91
LTE Band4	10	20350	1	#Max	QPSK	22.75	26.55
LTE Band4	10	20350	25	#0	QPSK	21.74	25.54
LTE Band4	10	20350	25	#Mid	QPSK	21.74	25.54
LTE Band4	10	20350	25	#Max	QPSK	21.75	25.55
LTE Band4	10	20350	50	#0	QPSK	21.75	25.55
LTE Band4	10	20350	1	#0	16QAM	21.39	25.19
LTE Band4	10	20350	1	#Mid	16QAM	21.51	25.31
LTE Band4	10	20350	1	#Max	16QAM	21.33	25.13
LTE Band4	10	20350	25	#0	16QAM	21.01	24.81
LTE Band4	10	20350	25	#Mid	16QAM	20.97	24.77
LTE Band4	10	20350	25	#Max	16QAM	20.76	24.56
LTE Band4	10	20350	50	#0	16QAM	20.75	24.55
LTE Band4	15	20025	1	#0	QPSK	22.13	25.93

LTE Band4	15	20025	1	#Mid	QPSK	22.15	25.95
LTE Band4	15	20025	1	#Max	QPSK	22.17	25.97
LTE Band4	15	20025	36	#0	QPSK	21.32	25.12
LTE Band4	15	20025	36	#Mid	QPSK	21.32	25.12
LTE Band4	15	20025	36	#Max	QPSK	21.18	24.98
LTE Band4	15	20025	75	#0	QPSK	21.23	25.03
LTE Band4	15	20025	1	#0	16QAM	21.44	25.24
LTE Band4	15	20025	1	#Mid	16QAM	21.31	25.11
LTE Band4	15	20025	1	#Max	16QAM	20.90	24.70
LTE Band4	15	20025	36	#0	16QAM	20.47	24.27
LTE Band4	15	20025	36	#Mid	16QAM	20.47	24.27
LTE Band4	15	20025	36	#Max	16QAM	20.22	24.02
LTE Band4	15	20025	75	#0	16QAM	20.34	24.14
LTE Band4	15	20175	1	#0	QPSK	22.26	26.06
LTE Band4	15	20175	1	#Mid	QPSK	22.61	26.41
LTE Band4	15	20175	1	#Max	QPSK	22.27	26.07
LTE Band4	15	20175	36	#0	QPSK	21.41	25.21
LTE Band4	15	20175	36	#Mid	QPSK	21.42	25.22
LTE Band4	15	20175	36	#Max	QPSK	21.57	25.37
LTE Band4	15	20175	75	#0	QPSK	21.40	25.20
LTE Band4	15	20175	1	#0	16QAM	22.00	25.80
LTE Band4	15	20175	1	#Mid	16QAM	21.97	25.77
LTE Band4	15	20175	1	#Max	16QAM	21.82	25.62
LTE Band4	15	20175	36	#0	16QAM	20.55	24.35
LTE Band4	15	20175	36	#Mid	16QAM	20.46	24.26
LTE Band4	15	20175	36	#Max	16QAM	20.62	24.42
LTE Band4	15	20175	75	#0	16QAM	20.44	24.24
LTE Band4	15	20325	1	#0	QPSK	22.59	26.39
LTE Band4	15	20325	1	#Mid	QPSK	22.57	26.37
LTE Band4	15	20325	1	#Max	QPSK	22.51	26.31
LTE Band4	15	20325	36	#0	QPSK	21.65	25.45
LTE Band4	15	20325	36	#Mid	QPSK	21.65	25.45
LTE Band4	15	20325	36	#Max	QPSK	21.58	25.38
LTE Band4	15	20325	75	#0	QPSK	21.67	25.47
LTE Band4	15	20325	1	#0	16QAM	21.69	25.49
LTE Band4	15	20325	1	#Mid	16QAM	21.64	25.44
LTE Band4	15	20325	1	#Max	16QAM	20.43	24.23
LTE Band4	15	20325	36	#0	16QAM	20.76	24.56
LTE Band4	15	20325	36	#Mid	16QAM	20.76	24.56
LTE Band4	15	20325	36	#Max	16QAM	20.51	24.31
LTE Band4	15	20325	75	#0	16QAM	20.60	24.40
LTE Band4	20	20050	1	#0	QPSK	22.34	26.14
LTE Band4	20	20050	1	#Mid	QPSK	22.31	26.11

LTE Band4	20	20050	1	#Max	QPSK	22.46	26.26
LTE Band4	20	20050	50	#0	QPSK	21.13	24.93
LTE Band4	20	20050	50	#Mid	QPSK	21.12	24.92
LTE Band4	20	20050	50	#Max	QPSK	21.35	25.15
LTE Band4	20	20050	100	#0	QPSK	21.32	25.12
LTE Band4	20	20050	1	#0	16QAM	21.36	25.16
LTE Band4	20	20050	1	#Mid	16QAM	21.46	25.26
LTE Band4	20	20050	1	#Max	16QAM	21.87	25.67
LTE Band4	20	20050	50	#0	16QAM	20.34	24.14
LTE Band4	20	20050	50	#Mid	16QAM	20.34	24.14
LTE Band4	20	20050	50	#Max	16QAM	20.56	24.36
LTE Band4	20	20050	100	#0	16QAM	20.33	24.13
LTE Band4	20	20175	1	#0	QPSK	22.37	26.17
LTE Band4	20	20175	1	#Mid	QPSK	22.97	26.77
LTE Band4	20	20175	1	#Max	QPSK	22.73	26.53
LTE Band4	20	20175	50	#0	QPSK	21.44	25.24
LTE Band4	20	20175	50	#Mid	QPSK	21.45	25.25
LTE Band4	20	20175	50	#Max	QPSK	21.70	25.50
LTE Band4	20	20175	100	#0	QPSK	21.40	25.20
LTE Band4	20	20175	1	#0	16QAM	21.02	24.82
LTE Band4	20	20175	1	#Mid	16QAM	21.26	25.06
LTE Band4	20	20175	1	#Max	16QAM	20.74	24.54
LTE Band4	20	20175	50	#0	16QAM	20.52	24.32
LTE Band4	20	20175	50	#Mid	16QAM	20.53	24.33
LTE Band4	20	20175	50	#Max	16QAM	20.69	24.49
LTE Band4	20	20175	100	#0	16QAM	20.44	24.24
LTE Band4	20	20300	1	#0	QPSK	22.62	26.42
LTE Band4	20	20300	1	#Mid	QPSK	22.92	26.72
LTE Band4	20	20300	1	#Max	QPSK	22.52	26.32
LTE Band4	20	20300	50	#0	QPSK	21.73	25.53
LTE Band4	20	20300	50	#Mid	QPSK	21.73	25.53
LTE Band4	20	20300	50	#Max	QPSK	21.66	25.46
LTE Band4	20	20300	100	#0	QPSK	21.69	25.49
LTE Band4	20	20300	1	#0	16QAM	21.12	24.92
LTE Band4	20	20300	1	#Mid	16QAM	21.12	24.92
LTE Band4	20	20300	1	#Max	16QAM	21.71	25.51
LTE Band4	20	20300	50	#0	16QAM	20.76	24.56
LTE Band4	20	20300	50	#Mid	16QAM	20.77	24.57
LTE Band4	20	20300	50	#Max	16QAM	20.58	24.38
LTE Band4	20	20300	100	#0	16QAM	20.72	24.52

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
LTE Band12	1.4	23017	1	#0	QPSK	23.27	23.82
LTE Band12	1.4	23017	1	#Mid	QPSK	23.43	23.98
LTE Band12	1.4	23017	1	#Max	QPSK	23.31	23.86
LTE Band12	1.4	23017	3	#0	QPSK	23.15	23.70
LTE Band12	1.4	23017	3	#Mid	QPSK	23.15	23.70
LTE Band12	1.4	23017	3	#Max	QPSK	23.24	23.79
LTE Band12	1.4	23017	6	#0	QPSK	22.23	22.78
LTE Band12	1.4	23017	1	#0	16QAM	22.34	22.89
LTE Band12	1.4	23017	1	#Mid	16QAM	22.46	23.01
LTE Band12	1.4	23017	1	#Max	16QAM	22.15	22.70
LTE Band12	1.4	23017	3	#0	16QAM	22.27	22.82
LTE Band12	1.4	23017	3	#Mid	16QAM	22.27	22.82
LTE Band12	1.4	23017	3	#Max	16QAM	22.29	22.84
LTE Band12	1.4	23017	6	#0	16QAM	21.42	21.97
LTE Band12	1.4	23095	1	#0	QPSK	22.87	23.42
LTE Band12	1.4	23095	1	#Mid	QPSK	23.06	23.61
LTE Band12	1.4	23095	1	#Max	QPSK	22.82	23.37
LTE Band12	1.4	23095	3	#0	QPSK	23.02	23.57
LTE Band12	1.4	23095	3	#Mid	QPSK	23.02	23.57
LTE Band12	1.4	23095	3	#Max	QPSK	23.13	23.68
LTE Band12	1.4	23095	6	#0	QPSK	22.26	22.81
LTE Band12	1.4	23095	1	#0	16QAM	22.83	23.38
LTE Band12	1.4	23095	1	#Mid	16QAM	23.03	23.58
LTE Band12	1.4	23095	1	#Max	16QAM	22.93	23.48
LTE Band12	1.4	23095	3	#0	16QAM	22.67	23.22
LTE Band12	1.4	23095	3	#Mid	16QAM	22.67	23.22
LTE Band12	1.4	23095	3	#Max	16QAM	22.69	23.24
LTE Band12	1.4	23095	6	#0	16QAM	21.34	21.89
LTE Band12	1.4	23173	1	#0	QPSK	23.19	23.74
LTE Band12	1.4	23173	1	#Mid	QPSK	23.40	23.95
LTE Band12	1.4	23173	1	#Max	QPSK	23.26	23.81
LTE Band12	1.4	23173	3	#0	QPSK	23.01	23.56
LTE Band12	1.4	23173	3	#Mid	QPSK	23.00	23.55
LTE Band12	1.4	23173	3	#Max	QPSK	23.07	23.62
LTE Band12	1.4	23173	6	#0	QPSK	22.11	22.66
LTE Band12	1.4	23173	1	#0	16QAM	21.96	22.51
LTE Band12	1.4	23173	1	#Mid	16QAM	22.15	22.70
LTE Band12	1.4	23173	1	#Max	16QAM	22.19	22.74
LTE Band12	1.4	23173	3	#0	16QAM	22.14	22.69
LTE Band12	1.4	23173	3	#Mid	16QAM	22.14	22.69

LTE Band12	1.4	23173	3	#Max	16QAM	22.24	22.79
LTE Band12	1.4	23173	6	#0	16QAM	20.95	21.50
LTE Band12	3	23025	1	#0	QPSK	23.08	23.63
LTE Band12	3	23025	1	#Mid	QPSK	23.13	23.68
LTE Band12	3	23025	1	#Max	QPSK	23.04	23.59
LTE Band12	3	23025	8	#0	QPSK	22.24	22.79
LTE Band12	3	23025	8	#Mid	QPSK	22.24	22.79
LTE Band12	3	23025	8	#Max	QPSK	22.27	22.82
LTE Band12	3	23025	15	#0	QPSK	22.28	22.83
LTE Band12	3	23025	1	#0	16QAM	22.28	22.83
LTE Band12	3	23025	1	#Mid	16QAM	22.34	22.89
LTE Band12	3	23025	1	#Max	16QAM	22.16	22.71
LTE Band12	3	23025	8	#0	16QAM	21.09	21.64
LTE Band12	3	23025	8	#Mid	16QAM	21.10	21.65
LTE Band12	3	23025	8	#Max	16QAM	21.03	21.58
LTE Band12	3	23025	15	#0	16QAM	21.01	21.56
LTE Band12	3	23095	1	#0	QPSK	23.10	23.65
LTE Band12	3	23095	1	#Mid	QPSK	22.96	23.51
LTE Band12	3	23095	1	#Max	QPSK	22.90	23.45
LTE Band12	3	23095	8	#0	QPSK	22.27	22.82
LTE Band12	3	23095	8	#Mid	QPSK	22.27	22.82
LTE Band12	3	23095	8	#Max	QPSK	22.23	22.78
LTE Band12	3	23095	15	#0	QPSK	22.25	22.80
LTE Band12	3	23095	1	#0	16QAM	22.32	22.87
LTE Band12	3	23095	1	#Mid	16QAM	22.36	22.91
LTE Band12	3	23095	1	#Max	16QAM	22.28	22.83
LTE Band12	3	23095	8	#0	16QAM	21.28	21.83
LTE Band12	3	23095	8	#Mid	16QAM	21.29	21.84
LTE Band12	3	23095	8	#Max	16QAM	21.23	21.78
LTE Band12	3	23095	15	#0	16QAM	21.04	21.59
LTE Band12	3	23165	1	#0	QPSK	23.14	23.69
LTE Band12	3	23165	1	#Mid	QPSK	23.03	23.58
LTE Band12	3	23165	1	#Max	QPSK	23.14	23.69
LTE Band12	3	23165	8	#0	QPSK	22.22	22.77
LTE Band12	3	23165	8	#Mid	QPSK	22.27	22.82
LTE Band12	3	23165	8	#Max	QPSK	22.18	22.73
LTE Band12	3	23165	15	#0	QPSK	22.26	22.81
LTE Band12	3	23165	1	#0	16QAM	22.03	22.58
LTE Band12	3	23165	1	#Mid	16QAM	21.87	22.42
LTE Band12	3	23165	1	#Max	16QAM	21.94	22.49
LTE Band12	3	23165	8	#0	16QAM	21.10	21.65
LTE Band12	3	23165	8	#Mid	16QAM	21.10	21.65
LTE Band12	3	23165	8	#Max	16QAM	21.00	21.55

LTE Band12	3	23165	15	#0	16QAM	21.08	21.63
LTE Band12	5	23035	1	#0	QPSK	23.13	23.68
LTE Band12	5	23035	1	#Mid	QPSK	23.05	23.60
LTE Band12	5	23035	1	#Max	QPSK	22.86	23.41
LTE Band12	5	23035	12	#0	QPSK	22.21	22.76
LTE Band12	5	23035	12	#Mid	QPSK	22.22	22.77
LTE Band12	5	23035	12	#Max	QPSK	22.08	22.63
LTE Band12	5	23035	25	#0	QPSK	22.22	22.77
LTE Band12	5	23035	1	#0	16QAM	22.20	22.75
LTE Band12	5	23035	1	#Mid	16QAM	22.35	22.90
LTE Band12	5	23035	1	#Max	16QAM	21.83	22.38
LTE Band12	5	23035	12	#0	16QAM	21.13	21.68
LTE Band12	5	23035	12	#Mid	16QAM	21.14	21.69
LTE Band12	5	23035	12	#Max	16QAM	20.98	21.53
LTE Band12	5	23035	25	#0	16QAM	21.09	21.64
LTE Band12	5	23095	1	#0	QPSK	23.07	23.62
LTE Band12	5	23095	1	#Mid	QPSK	23.10	23.65
LTE Band12	5	23095	1	#Max	QPSK	22.78	23.33
LTE Band12	5	23095	12	#0	QPSK	22.19	22.74
LTE Band12	5	23095	12	#Mid	QPSK	22.19	22.74
LTE Band12	5	23095	12	#Max	QPSK	22.17	22.72
LTE Band12	5	23095	25	#0	QPSK	22.24	22.79
LTE Band12	5	23095	1	#0	16QAM	22.48	23.03
LTE Band12	5	23095	1	#Mid	16QAM	22.40	22.95
LTE Band12	5	23095	1	#Max	16QAM	22.41	22.96
LTE Band12	5	23095	12	#0	16QAM	21.04	21.59
LTE Band12	5	23095	12	#Mid	16QAM	21.04	21.59
LTE Band12	5	23095	12	#Max	16QAM	20.93	21.48
LTE Band12	5	23095	25	#0	16QAM	21.13	21.68
LTE Band12	5	23155	1	#0	QPSK	22.98	23.53
LTE Band12	5	23155	1	#Mid	QPSK	22.99	23.54
LTE Band12	5	23155	1	#Max	QPSK	22.88	23.43
LTE Band12	5	23155	12	#0	QPSK	22.01	22.56
LTE Band12	5	23155	12	#Mid	QPSK	22.05	22.60
LTE Band12	5	23155	12	#Max	QPSK	22.08	22.63
LTE Band12	5	23155	25	#0	QPSK	22.09	22.64
LTE Band12	5	23155	1	#0	16QAM	22.47	23.02
LTE Band12	5	23155	1	#Mid	16QAM	22.49	23.04
LTE Band12	5	23155	1	#Max	16QAM	22.23	22.78
LTE Band12	5	23155	12	#0	16QAM	21.07	21.62
LTE Band12	5	23155	12	#Mid	16QAM	21.07	21.62
LTE Band12	5	23155	12	#Max	16QAM	21.05	21.60
LTE Band12	5	23155	25	#0	16QAM	21.05	21.60

LTE Band12	10	23060	1	#0	QPSK	23.13	23.68
LTE Band12	10	23060	1	#Mid	QPSK	23.22	23.77
LTE Band12	10	23060	1	#Max	QPSK	22.95	23.50
LTE Band12	10	23060	25	#0	QPSK	22.28	22.83
LTE Band12	10	23060	25	#Mid	QPSK	22.27	22.82
LTE Band12	10	23060	25	#Max	QPSK	22.20	22.75
LTE Band12	10	23060	50	#0	QPSK	22.19	22.74
LTE Band12	10	23060	1	#0	16QAM	22.29	22.84
LTE Band12	10	23060	1	#Mid	16QAM	23.14	23.69
LTE Band12	10	23060	1	#Max	16QAM	22.36	22.91
LTE Band12	10	23060	25	#0	16QAM	21.40	21.95
LTE Band12	10	23060	25	#Mid	16QAM	21.40	21.95
LTE Band12	10	23060	25	#Max	16QAM	21.38	21.93
LTE Band12	10	23060	50	#0	16QAM	21.30	21.85
LTE Band12	10	23095	1	#0	QPSK	23.16	23.71
LTE Band12	10	23095	1	#Mid	QPSK	23.11	23.66
LTE Band12	10	23095	1	#Max	QPSK	22.91	23.46
LTE Band12	10	23095	25	#0	QPSK	22.31	22.86
LTE Band12	10	23095	25	#Mid	QPSK	22.31	22.86
LTE Band12	10	23095	25	#Max	QPSK	22.18	22.73
LTE Band12	10	23095	50	#0	QPSK	22.22	22.77
LTE Band12	10	23095	1	#0	16QAM	22.58	23.13
LTE Band12	10	23095	1	#Mid	16QAM	22.72	23.27
LTE Band12	10	23095	1	#Max	16QAM	22.57	23.12
LTE Band12	10	23095	25	#0	16QAM	21.44	21.99
LTE Band12	10	23095	25	#Mid	16QAM	21.45	22.00
LTE Band12	10	23095	25	#Max	16QAM	21.33	21.88
LTE Band12	10	23095	50	#0	16QAM	20.95	21.50
LTE Band12	10	23130	1	#0	QPSK	23.05	23.60
LTE Band12	10	23130	1	#Mid	QPSK	23.29	23.84
LTE Band12	10	23130	1	#Max	QPSK	22.98	23.53
LTE Band12	10	23130	25	#0	QPSK	22.23	22.78
LTE Band12	10	23130	25	#Mid	QPSK	22.24	22.79
LTE Band12	10	23130	25	#Max	QPSK	22.19	22.74
LTE Band12	10	23130	50	#0	QPSK	22.22	22.77
LTE Band12	10	23130	1	#0	16QAM	21.90	22.45
LTE Band12	10	23130	1	#Mid	16QAM	22.07	22.62
LTE Band12	10	23130	1	#Max	16QAM	21.84	22.39
LTE Band12	10	23130	25	#0	16QAM	21.05	21.60
LTE Band12	10	23130	25	#Mid	16QAM	21.06	21.61
LTE Band12	10	23130	25	#Max	16QAM	21.07	21.62
LTE Band12	10	23130	50	#0	16QAM	21.09	21.64

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
LTE Band13	5	23205	1	#0	QPSK	23.18	22.73
LTE Band13	5	23205	1	#Mid	QPSK	23.23	22.78
LTE Band13	5	23205	1	#Max	QPSK	22.85	22.40
LTE Band13	5	23205	12	#0	QPSK	22.37	21.92
LTE Band13	5	23205	12	#Mid	QPSK	22.37	21.92
LTE Band13	5	23205	12	#Max	QPSK	22.21	21.76
LTE Band13	5	23205	25	#0	QPSK	22.38	21.93
LTE Band13	5	23205	1	#0	16QAM	22.44	21.99
LTE Band13	5	23205	1	#Mid	16QAM	22.46	22.01
LTE Band13	5	23205	1	#Max	16QAM	22.41	21.96
LTE Band13	5	23205	12	#0	16QAM	21.17	20.72
LTE Band13	5	23205	12	#Mid	16QAM	21.18	20.73
LTE Band13	5	23205	12	#Max	16QAM	21.11	20.66
LTE Band13	5	23205	25	#0	16QAM	21.49	21.04
LTE Band13	5	23230	1	#0	QPSK	23.06	22.61
LTE Band13	5	23230	1	#Mid	QPSK	23.09	22.64
LTE Band13	5	23230	1	#Max	QPSK	23.06	22.61
LTE Band13	5	23230	12	#0	QPSK	22.20	21.75
LTE Band13	5	23230	12	#Mid	QPSK	22.20	21.75
LTE Band13	5	23230	12	#Max	QPSK	22.29	21.84
LTE Band13	5	23230	25	#0	QPSK	22.23	21.78
LTE Band13	5	23230	1	#0	16QAM	22.49	22.04
LTE Band13	5	23230	1	#Mid	16QAM	22.53	22.08
LTE Band13	5	23230	1	#Max	16QAM	22.61	22.16
LTE Band13	5	23230	12	#0	16QAM	21.27	20.82
LTE Band13	5	23230	12	#Mid	16QAM	21.28	20.83
LTE Band13	5	23230	12	#Max	16QAM	21.36	20.91
LTE Band13	5	23230	25	#0	16QAM	21.27	20.82
LTE Band13	5	23255	1	#0	QPSK	23.05	22.60
LTE Band13	5	23255	1	#Mid	QPSK	23.31	22.86
LTE Band13	5	23255	1	#Max	QPSK	23.24	22.79
LTE Band13	5	23255	12	#0	QPSK	22.25	21.80
LTE Band13	5	23255	12	#Mid	QPSK	22.24	21.79
LTE Band13	5	23255	12	#Max	QPSK	22.42	21.97
LTE Band13	5	23255	25	#0	QPSK	22.36	21.91
LTE Band13	5	23255	1	#0	16QAM	22.34	21.89
LTE Band13	5	23255	1	#Mid	16QAM	22.45	22.00
LTE Band13	5	23255	1	#Max	16QAM	22.38	21.93
LTE Band13	5	23255	12	#0	16QAM	21.20	20.75
LTE Band13	5	23255	12	#Mid	16QAM	21.20	20.75

LTE Band13	5	23255	12	#Max	16QAM	21.23	20.78
LTE Band13	5	23255	25	#0	16QAM	21.31	20.86
LTE Band13	10	23230	1	#0	QPSK	23.20	22.75
LTE Band13	10	23230	1	#Mid	QPSK	23.19	22.74
LTE Band13	10	23230	1	#Max	QPSK	23.03	22.58
LTE Band13	10	23230	25	#0	QPSK	22.33	21.88
LTE Band13	10	23230	25	#Mid	QPSK	22.32	21.87
LTE Band13	10	23230	25	#Max	QPSK	22.17	21.72
LTE Band13	10	23230	50	#0	QPSK	22.23	21.78
LTE Band13	10	23230	1	#0	16QAM	22.38	21.93
LTE Band13	10	23230	1	#Mid	16QAM	22.58	22.13
LTE Band13	10	23230	1	#Max	16QAM	21.93	21.48
LTE Band13	10	23230	25	#0	16QAM	21.33	20.88
LTE Band13	10	23230	25	#Mid	16QAM	21.33	20.88
LTE Band13	10	23230	25	#Max	16QAM	21.31	20.86
LTE Band13	10	23230	50	#0	16QAM	21.10	20.65

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
LTE Band66	1.4	131979	1	#0	QPSK	22.86	26.66
LTE Band66	1.4	131979	1	#Mid	QPSK	23.15	26.95
LTE Band66	1.4	131979	1	#Max	QPSK	23.08	26.88
LTE Band66	1.4	131979	3	#0	QPSK	22.81	26.61
LTE Band66	1.4	131979	3	#Mid	QPSK	22.81	26.61
LTE Band66	1.4	131979	3	#Max	QPSK	22.72	26.52
LTE Band66	1.4	131979	6	#0	QPSK	21.74	25.54
LTE Band66	1.4	131979	1	#0	16QAM	21.82	25.62
LTE Band66	1.4	131979	1	#Mid	16QAM	21.98	25.78
LTE Band66	1.4	131979	1	#Max	16QAM	22.23	26.03
LTE Band66	1.4	131979	3	#0	16QAM	21.71	25.51
LTE Band66	1.4	131979	3	#Mid	16QAM	21.69	25.49
LTE Band66	1.4	131979	3	#Max	16QAM	21.35	25.15
LTE Band66	1.4	131979	6	#0	16QAM	20.64	24.44
LTE Band66	1.4	132322	1	#0	QPSK	23.20	27.00
LTE Band66	1.4	132322	1	#Mid	QPSK	23.26	27.06
LTE Band66	1.4	132322	1	#Max	QPSK	23.01	26.81
LTE Band66	1.4	132322	3	#0	QPSK	23.04	26.84
LTE Band66	1.4	132322	3	#Mid	QPSK	23.04	26.84
LTE Band66	1.4	132322	3	#Max	QPSK	23.13	26.93
LTE Band66	1.4	132322	6	#0	QPSK	22.17	25.97
LTE Band66	1.4	132322	1	#0	16QAM	22.81	26.61
LTE Band66	1.4	132322	1	#Mid	16QAM	22.89	26.69
LTE Band66	1.4	132322	1	#Max	16QAM	22.82	26.62

LTE Band66	1.4	132322	3	#0	16QAM	22.54	26.34
LTE Band66	1.4	132322	3	#Mid	16QAM	22.54	26.34
LTE Band66	1.4	132322	3	#Max	16QAM	22.54	26.34
LTE Band66	1.4	132322	6	#0	16QAM	21.20	25.00
LTE Band66	1.4	132665	1	#0	QPSK	23.02	26.82
LTE Band66	1.4	132665	1	#Mid	QPSK	23.15	26.95
LTE Band66	1.4	132665	1	#Max	QPSK	23.00	26.80
LTE Band66	1.4	132665	3	#0	QPSK	22.93	26.73
LTE Band66	1.4	132665	3	#Mid	QPSK	22.92	26.72
LTE Band66	1.4	132665	3	#Max	QPSK	22.75	26.55
LTE Band66	1.4	132665	6	#0	QPSK	21.97	25.77
LTE Band66	1.4	132665	1	#0	16QAM	21.91	25.71
LTE Band66	1.4	132665	1	#Mid	16QAM	21.81	25.61
LTE Band66	1.4	132665	1	#Max	16QAM	21.65	25.45
LTE Band66	1.4	132665	3	#0	16QAM	21.84	25.64
LTE Band66	1.4	132665	3	#Mid	16QAM	21.84	25.64
LTE Band66	1.4	132665	3	#Max	16QAM	21.80	25.60
LTE Band66	1.4	132665	6	#0	16QAM	20.98	24.78
LTE Band66	3	131987	1	#0	QPSK	22.68	26.48
LTE Band66	3	131987	1	#Mid	QPSK	22.68	26.48
LTE Band66	3	131987	1	#Max	QPSK	22.70	26.50
LTE Band66	3	131987	8	#0	QPSK	21.71	25.51
LTE Band66	3	131987	8	#Mid	QPSK	21.72	25.52
LTE Band66	3	131987	8	#Max	QPSK	21.85	25.65
LTE Band66	3	131987	15	#0	QPSK	21.78	25.58
LTE Band66	3	131987	1	#0	16QAM	21.48	25.28
LTE Band66	3	131987	1	#Mid	16QAM	21.51	25.31
LTE Band66	3	131987	1	#Max	16QAM	21.42	25.22
LTE Band66	3	131987	8	#0	16QAM	20.38	24.18
LTE Band66	3	131987	8	#Mid	16QAM	20.39	24.19
LTE Band66	3	131987	8	#Max	16QAM	20.80	24.60
LTE Band66	3	131987	15	#0	16QAM	20.70	24.50
LTE Band66	3	132322	1	#0	QPSK	22.98	26.78
LTE Band66	3	132322	1	#Mid	QPSK	22.93	26.73
LTE Band66	3	132322	1	#Max	QPSK	22.91	26.71
LTE Band66	3	132322	8	#0	QPSK	22.18	25.98
LTE Band66	3	132322	8	#Mid	QPSK	22.18	25.98
LTE Band66	3	132322	8	#Max	QPSK	22.16	25.96
LTE Band66	3	132322	15	#0	QPSK	22.15	25.95
LTE Band66	3	132322	1	#0	16QAM	22.22	26.02
LTE Band66	3	132322	1	#Mid	16QAM	22.27	26.07
LTE Band66	3	132322	1	#Max	16QAM	22.25	26.05
LTE Band66	3	132322	8	#0	16QAM	21.13	24.93

LTE Band66	3	132322	8	#Mid	16QAM	21.13	24.93
LTE Band66	3	132322	8	#Max	16QAM	21.12	24.92
LTE Band66	3	132322	15	#0	16QAM	20.74	24.54
LTE Band66	3	132657	1	#0	QPSK	22.86	26.66
LTE Band66	3	132657	1	#Mid	QPSK	22.81	26.61
LTE Band66	3	132657	1	#Max	QPSK	22.88	26.68
LTE Band66	3	132657	8	#0	QPSK	21.90	25.70
LTE Band66	3	132657	8	#Mid	QPSK	21.90	25.70
LTE Band66	3	132657	8	#Max	QPSK	21.77	25.57
LTE Band66	3	132657	15	#0	QPSK	21.82	25.62
LTE Band66	3	132657	1	#0	16QAM	21.78	25.58
LTE Band66	3	132657	1	#Mid	16QAM	21.81	25.61
LTE Band66	3	132657	1	#Max	16QAM	21.57	25.37
LTE Band66	3	132657	8	#0	16QAM	20.78	24.58
LTE Band66	3	132657	8	#Mid	16QAM	20.67	24.47
LTE Band66	3	132657	8	#Max	16QAM	20.53	24.33
LTE Band66	3	132657	15	#0	16QAM	20.78	24.58
LTE Band66	5	131997	1	#0	QPSK	22.54	26.34
LTE Band66	5	131997	1	#Mid	QPSK	22.58	26.38
LTE Band66	5	131997	1	#Max	QPSK	22.49	26.29
LTE Band66	5	131997	12	#0	QPSK	21.52	25.32
LTE Band66	5	131997	12	#Mid	QPSK	21.59	25.39
LTE Band66	5	131997	12	#Max	QPSK	21.66	25.46
LTE Band66	5	131997	25	#0	QPSK	21.53	25.33
LTE Band66	5	131997	1	#0	16QAM	21.56	25.36
LTE Band66	5	131997	1	#Mid	16QAM	21.61	25.41
LTE Band66	5	131997	1	#Max	16QAM	21.61	25.41
LTE Band66	5	131997	12	#0	16QAM	20.54	24.34
LTE Band66	5	131997	12	#Mid	16QAM	20.55	24.35
LTE Band66	5	131997	12	#Max	16QAM	20.59	24.39
LTE Band66	5	131997	25	#0	16QAM	20.59	24.39
LTE Band66	5	132322	1	#0	QPSK	22.86	26.66
LTE Band66	5	132322	1	#Mid	QPSK	22.90	26.70
LTE Band66	5	132322	1	#Max	QPSK	22.90	26.70
LTE Band66	5	132322	12	#0	QPSK	22.03	25.83
LTE Band66	5	132322	12	#Mid	QPSK	22.03	25.83
LTE Band66	5	132322	12	#Max	QPSK	21.99	25.79
LTE Band66	5	132322	25	#0	QPSK	21.99	25.79
LTE Band66	5	132322	1	#0	16QAM	21.99	25.79
LTE Band66	5	132322	1	#Mid	16QAM	22.07	25.87
LTE Band66	5	132322	1	#Max	16QAM	22.24	26.04
LTE Band66	5	132322	12	#0	16QAM	20.71	24.51
LTE Band66	5	132322	12	#Mid	16QAM	20.72	24.52

LTE Band66	5	132322	12	#Max	16QAM	20.67	24.47
LTE Band66	5	132322	25	#0	16QAM	20.69	24.49
LTE Band66	5	132647	1	#0	QPSK	22.66	26.46
LTE Band66	5	132647	1	#Mid	QPSK	22.55	26.35
LTE Band66	5	132647	1	#Max	QPSK	22.54	26.34
LTE Band66	5	132647	12	#0	QPSK	21.92	25.72
LTE Band66	5	132647	12	#Mid	QPSK	21.92	25.72
LTE Band66	5	132647	12	#Max	QPSK	21.74	25.54
LTE Band66	5	132647	25	#0	QPSK	21.86	25.66
LTE Band66	5	132647	1	#0	16QAM	21.80	25.60
LTE Band66	5	132647	1	#Mid	16QAM	21.70	25.50
LTE Band66	5	132647	1	#Max	16QAM	21.62	25.42
LTE Band66	5	132647	12	#0	16QAM	20.84	24.64
LTE Band66	5	132647	12	#Mid	16QAM	20.85	24.65
LTE Band66	5	132647	12	#Max	16QAM	20.66	24.46
LTE Band66	5	132647	25	#0	16QAM	20.83	24.63
LTE Band66	10	132022	1	#0	QPSK	22.73	26.53
LTE Band66	10	132022	1	#Mid	QPSK	22.75	26.55
LTE Band66	10	132022	1	#Max	QPSK	22.62	26.42
LTE Band66	10	132022	25	#0	QPSK	21.64	25.44
LTE Band66	10	132022	25	#Mid	QPSK	21.64	25.44
LTE Band66	10	132022	25	#Max	QPSK	21.72	25.52
LTE Band66	10	132022	50	#0	QPSK	21.57	25.37
LTE Band66	10	132022	1	#0	16QAM	21.82	25.62
LTE Band66	10	132022	1	#Mid	16QAM	22.69	26.49
LTE Band66	10	132022	1	#Max	16QAM	22.02	25.82
LTE Band66	10	132022	25	#0	16QAM	20.63	24.43
LTE Band66	10	132022	25	#Mid	16QAM	20.63	24.43
LTE Band66	10	132022	25	#Max	16QAM	20.93	24.73
LTE Band66	10	132022	50	#0	16QAM	20.71	24.51
LTE Band66	10	132322	1	#0	QPSK	23.15	26.95
LTE Band66	10	132322	1	#Mid	QPSK	23.12	26.92
LTE Band66	10	132322	1	#Max	QPSK	22.96	26.76
LTE Band66	10	132322	25	#0	QPSK	22.09	25.89
LTE Band66	10	132322	25	#Mid	QPSK	22.09	25.89
LTE Band66	10	132322	25	#Max	QPSK	22.15	25.95
LTE Band66	10	132322	50	#0	QPSK	22.06	25.86
LTE Band66	10	132322	1	#0	16QAM	22.67	26.47
LTE Band66	10	132322	1	#Mid	16QAM	23.45	27.25
LTE Band66	10	132322	1	#Max	16QAM	22.87	26.67
LTE Band66	10	132322	25	#0	16QAM	21.29	25.09
LTE Band66	10	132322	25	#Mid	16QAM	21.29	25.09
LTE Band66	10	132322	25	#Max	16QAM	21.35	25.15

LTE Band66	10	132322	50	#0	16QAM	21.09	24.89
LTE Band66	10	132622	1	#0	QPSK	22.75	26.55
LTE Band66	10	132622	1	#Mid	QPSK	22.81	26.61
LTE Band66	10	132622	1	#Max	QPSK	22.93	26.73
LTE Band66	10	132622	25	#0	QPSK	21.88	25.68
LTE Band66	10	132622	25	#Mid	QPSK	21.89	25.69
LTE Band66	10	132622	25	#Max	QPSK	21.70	25.50
LTE Band66	10	132622	50	#0	QPSK	21.86	25.66
LTE Band66	10	132622	1	#0	16QAM	21.77	25.57
LTE Band66	10	132622	1	#Mid	16QAM	21.85	25.65
LTE Band66	10	132622	1	#Max	16QAM	21.40	25.20
LTE Band66	10	132622	25	#0	16QAM	20.98	24.78
LTE Band66	10	132622	25	#Mid	16QAM	20.89	24.69
LTE Band66	10	132622	25	#Max	16QAM	20.81	24.61
LTE Band66	10	132622	50	#0	16QAM	20.94	24.74
LTE Band66	15	132047	1	#0	QPSK	22.63	26.43
LTE Band66	15	132047	1	#Mid	QPSK	22.74	26.54
LTE Band66	15	132047	1	#Max	QPSK	22.75	26.55
LTE Band66	15	132047	36	#0	QPSK	21.63	25.43
LTE Band66	15	132047	36	#Mid	QPSK	21.63	25.43
LTE Band66	15	132047	36	#Max	QPSK	21.82	25.62
LTE Band66	15	132047	75	#0	QPSK	21.61	25.41
LTE Band66	15	132047	1	#0	16QAM	21.85	25.65
LTE Band66	15	132047	1	#Mid	16QAM	22.30	26.10
LTE Band66	15	132047	1	#Max	16QAM	21.90	25.70
LTE Band66	15	132047	36	#0	16QAM	20.59	24.39
LTE Band66	15	132047	36	#Mid	16QAM	20.59	24.39
LTE Band66	15	132047	36	#Max	16QAM	20.78	24.58
LTE Band66	15	132047	75	#0	16QAM	20.57	24.37
LTE Band66	15	132322	1	#0	QPSK	22.99	26.79
LTE Band66	15	132322	1	#Mid	QPSK	23.02	26.82
LTE Band66	15	132322	1	#Max	QPSK	22.82	26.62
LTE Band66	15	132322	36	#0	QPSK	22.04	25.84
LTE Band66	15	132322	36	#Mid	QPSK	22.04	25.84
LTE Band66	15	132322	36	#Max	QPSK	22.12	25.92
LTE Band66	15	132322	75	#0	QPSK	22.01	25.81
LTE Band66	15	132322	1	#0	16QAM	22.75	26.55
LTE Band66	15	132322	1	#Mid	16QAM	23.24	27.04
LTE Band66	15	132322	1	#Max	16QAM	22.72	26.52
LTE Band66	15	132322	36	#0	16QAM	21.33	25.13
LTE Band66	15	132322	36	#Mid	16QAM	21.11	24.91
LTE Band66	15	132322	36	#Max	16QAM	21.19	24.99
LTE Band66	15	132322	75	#0	16QAM	21.07	24.87

LTE Band66	15	132597	1	#0	QPSK	22.88	26.68
LTE Band66	15	132597	1	#Mid	QPSK	22.78	26.58
LTE Band66	15	132597	1	#Max	QPSK	22.70	26.50
LTE Band66	15	132597	36	#0	QPSK	21.79	25.59
LTE Band66	15	132597	36	#Mid	QPSK	21.80	25.60
LTE Band66	15	132597	36	#Max	QPSK	21.83	25.63
LTE Band66	15	132597	75	#0	QPSK	21.93	25.73
LTE Band66	15	132597	1	#0	16QAM	21.94	25.74
LTE Band66	15	132597	1	#Mid	16QAM	21.71	25.51
LTE Band66	15	132597	1	#Max	16QAM	20.76	24.56
LTE Band66	15	132597	36	#0	16QAM	20.95	24.75
LTE Band66	15	132597	36	#Mid	16QAM	20.97	24.77
LTE Band66	15	132597	36	#Max	16QAM	20.70	24.50
LTE Band66	15	132597	75	#0	16QAM	20.94	24.74
LTE Band66	20	132072	1	#0	QPSK	22.34	26.14
LTE Band66	20	132072	1	#Mid	QPSK	22.91	26.71
LTE Band66	20	132072	1	#Max	QPSK	22.57	26.37
LTE Band66	20	132072	50	#0	QPSK	21.58	25.38
LTE Band66	20	132072	50	#Mid	QPSK	21.58	25.38
LTE Band66	20	132072	50	#Max	QPSK	21.91	25.71
LTE Band66	20	132072	100	#0	QPSK	21.65	25.45
LTE Band66	20	132072	1	#0	16QAM	21.70	25.50
LTE Band66	20	132072	1	#Mid	16QAM	22.47	26.27
LTE Band66	20	132072	1	#Max	16QAM	21.84	25.64
LTE Band66	20	132072	50	#0	16QAM	20.68	24.48
LTE Band66	20	132072	50	#Mid	16QAM	20.75	24.55
LTE Band66	20	132072	50	#Max	16QAM	20.99	24.79
LTE Band66	20	132072	100	#0	16QAM	20.84	24.64
LTE Band66	20	132322	1	#0	QPSK	23.02	26.82
LTE Band66	20	132322	1	#Mid	QPSK	23.40	27.20
LTE Band66	20	132322	1	#Max	QPSK	22.95	26.75
LTE Band66	20	132322	50	#0	QPSK	21.97	25.77
LTE Band66	20	132322	50	#Mid	QPSK	21.97	25.77
LTE Band66	20	132322	50	#Max	QPSK	22.04	25.84
LTE Band66	20	132322	100	#0	QPSK	21.93	25.73
LTE Band66	20	132322	1	#0	16QAM	21.77	25.57
LTE Band66	20	132322	1	#Mid	16QAM	21.75	25.55
LTE Band66	20	132322	1	#Max	16QAM	21.36	25.16
LTE Band66	20	132322	50	#0	16QAM	21.01	24.81
LTE Band66	20	132322	50	#Mid	16QAM	21.02	24.82
LTE Band66	20	132322	50	#Max	16QAM	20.97	24.77
LTE Band66	20	132322	100	#0	16QAM	20.92	24.72
LTE Band66	20	132572	1	#0	QPSK	23.02	26.82

LTE Band66	20	132572	1	#Mid	QPSK	22.99	26.79
LTE Band66	20	132572	1	#Max	QPSK	22.65	26.45
LTE Band66	20	132572	50	#0	QPSK	21.89	25.69
LTE Band66	20	132572	50	#Mid	QPSK	21.89	25.69
LTE Band66	20	132572	50	#Max	QPSK	21.68	25.48
LTE Band66	20	132572	100	#0	QPSK	21.68	25.48
LTE Band66	20	132572	1	#0	16QAM	21.88	25.68
LTE Band66	20	132572	1	#Mid	16QAM	21.94	25.74
LTE Band66	20	132572	1	#Max	16QAM	21.94	25.74
LTE Band66	20	132572	50	#0	16QAM	20.98	24.78
LTE Band66	20	132572	50	#Mid	16QAM	21.00	24.80
LTE Band66	20	132572	50	#Max	16QAM	20.62	24.42
LTE Band66	20	132572	100	#0	16QAM	20.90	24.70

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
LTE Band71	5	133147	1	#0	QPSK	22.65	25.10
LTE Band71	5	133147	1	#Mid	QPSK	22.83	25.28
LTE Band71	5	133147	1	#Max	QPSK	22.65	25.10
LTE Band71	5	133147	12	#0	QPSK	21.91	24.36
LTE Band71	5	133147	12	#Mid	QPSK	21.91	24.36
LTE Band71	5	133147	12	#Max	QPSK	22.04	24.49
LTE Band71	5	133147	25	#0	QPSK	21.89	24.34
LTE Band71	5	133147	1	#0	16QAM	22.23	24.68
LTE Band71	5	133147	1	#Mid	16QAM	22.64	25.09
LTE Band71	5	133147	1	#Max	16QAM	22.41	24.86
LTE Band71	5	133147	12	#0	16QAM	20.78	23.23
LTE Band71	5	133147	12	#Mid	16QAM	20.78	23.23
LTE Band71	5	133147	12	#Max	16QAM	20.91	23.36
LTE Band71	5	133147	25	#0	16QAM	20.77	23.22
LTE Band71	5	133297	1	#0	QPSK	22.57	25.02
LTE Band71	5	133297	1	#Mid	QPSK	22.91	25.36
LTE Band71	5	133297	1	#Max	QPSK	22.94	25.39
LTE Band71	5	133297	12	#0	QPSK	21.78	24.23
LTE Band71	5	133297	12	#Mid	QPSK	21.78	24.23
LTE Band71	5	133297	12	#Max	QPSK	21.81	24.26
LTE Band71	5	133297	25	#0	QPSK	21.82	24.27
LTE Band71	5	133297	1	#0	16QAM	22.02	24.47
LTE Band71	5	133297	1	#Mid	16QAM	22.11	24.56
LTE Band71	5	133297	1	#Max	16QAM	22.06	24.51
LTE Band71	5	133297	12	#0	16QAM	20.96	23.41
LTE Band71	5	133297	12	#Mid	16QAM	20.97	23.42
LTE Band71	5	133297	12	#Max	16QAM	20.97	23.42

LTE Band71	5	133297	25	#0	16QAM	20.75	23.20
LTE Band71	5	133447	1	#0	QPSK	22.62	25.07
LTE Band71	5	133447	1	#Mid	QPSK	22.74	25.19
LTE Band71	5	133447	1	#Max	QPSK	22.66	25.11
LTE Band71	5	133447	12	#0	QPSK	21.96	24.41
LTE Band71	5	133447	12	#Mid	QPSK	21.96	24.41
LTE Band71	5	133447	12	#Max	QPSK	21.91	24.36
LTE Band71	5	133447	25	#0	QPSK	21.95	24.40
LTE Band71	5	133447	1	#0	16QAM	21.82	24.27
LTE Band71	5	133447	1	#Mid	16QAM	21.94	24.39
LTE Band71	5	133447	1	#Max	16QAM	21.44	23.89
LTE Band71	5	133447	12	#0	16QAM	20.76	23.21
LTE Band71	5	133447	12	#Mid	16QAM	20.76	23.21
LTE Band71	5	133447	12	#Max	16QAM	20.72	23.17
LTE Band71	5	133447	25	#0	16QAM	20.81	23.26
LTE Band71	10	133172	1	#0	QPSK	23.00	25.45
LTE Band71	10	133172	1	#Mid	QPSK	23.03	25.48
LTE Band71	10	133172	1	#Max	QPSK	22.83	25.28
LTE Band71	10	133172	25	#0	QPSK	21.99	24.44
LTE Band71	10	133172	25	#Mid	QPSK	21.99	24.44
LTE Band71	10	133172	25	#Max	QPSK	21.95	24.40
LTE Band71	10	133172	50	#0	QPSK	21.83	24.28
LTE Band71	10	133172	1	#0	16QAM	22.08	24.53
LTE Band71	10	133172	1	#Mid	16QAM	22.67	25.12
LTE Band71	10	133172	1	#Max	16QAM	21.84	24.29
LTE Band71	10	133172	25	#0	16QAM	21.05	23.50
LTE Band71	10	133172	25	#Mid	16QAM	21.05	23.50
LTE Band71	10	133172	25	#Max	16QAM	21.15	23.60
LTE Band71	10	133172	50	#0	16QAM	20.86	23.31
LTE Band71	10	133297	1	#0	QPSK	22.76	25.21
LTE Band71	10	133297	1	#Mid	QPSK	22.94	25.39
LTE Band71	10	133297	1	#Max	QPSK	22.74	25.19
LTE Band71	10	133297	25	#0	QPSK	21.85	24.30
LTE Band71	10	133297	25	#Mid	QPSK	21.85	24.30
LTE Band71	10	133297	25	#Max	QPSK	21.94	24.39
LTE Band71	10	133297	50	#0	QPSK	21.87	24.32
LTE Band71	10	133297	1	#0	16QAM	22.55	25.00
LTE Band71	10	133297	1	#Mid	16QAM	23.27	25.72
LTE Band71	10	133297	1	#Max	16QAM	22.64	25.09
LTE Band71	10	133297	25	#0	16QAM	20.87	23.32
LTE Band71	10	133297	25	#Mid	16QAM	20.88	23.33
LTE Band71	10	133297	25	#Max	16QAM	21.10	23.55
LTE Band71	10	133297	50	#0	16QAM	20.76	23.21

LTE Band71	10	133422	1	#0	QPSK	22.90	25.35
LTE Band71	10	133422	1	#Mid	QPSK	23.24	25.69
LTE Band71	10	133422	1	#Max	QPSK	22.89	25.34
LTE Band71	10	133422	25	#0	QPSK	21.92	24.37
LTE Band71	10	133422	25	#Mid	QPSK	21.93	24.38
LTE Band71	10	133422	25	#Max	QPSK	22.03	24.48
LTE Band71	10	133422	50	#0	QPSK	21.93	24.38
LTE Band71	10	133422	1	#0	16QAM	21.61	24.06
LTE Band71	10	133422	1	#Mid	16QAM	21.73	24.18
LTE Band71	10	133422	1	#Max	16QAM	21.34	23.79
LTE Band71	10	133422	25	#0	16QAM	20.93	23.38
LTE Band71	10	133422	25	#Mid	16QAM	20.93	23.38
LTE Band71	10	133422	25	#Max	16QAM	21.18	23.63
LTE Band71	10	133422	50	#0	16QAM	20.86	23.31
LTE Band71	15	133197	1	#0	QPSK	22.92	25.37
LTE Band71	15	133197	1	#Mid	QPSK	22.78	25.23
LTE Band71	15	133197	1	#Max	QPSK	22.90	25.35
LTE Band71	15	133197	36	#0	QPSK	22.03	24.48
LTE Band71	15	133197	36	#Mid	QPSK	22.03	24.48
LTE Band71	15	133197	36	#Max	QPSK	21.90	24.35
LTE Band71	15	133197	75	#0	QPSK	22.03	24.48
LTE Band71	15	133197	1	#0	16QAM	21.96	24.41
LTE Band71	15	133197	1	#Mid	16QAM	22.83	25.28
LTE Band71	15	133197	1	#Max	16QAM	22.05	24.50
LTE Band71	15	133197	36	#0	16QAM	21.05	23.50
LTE Band71	15	133197	36	#Mid	16QAM	21.02	23.47
LTE Band71	15	133197	36	#Max	16QAM	20.83	23.28
LTE Band71	15	133197	75	#0	16QAM	20.88	23.33
LTE Band71	15	133297	1	#0	QPSK	22.84	25.29
LTE Band71	15	133297	1	#Mid	QPSK	22.97	25.42
LTE Band71	15	133297	1	#Max	QPSK	22.74	25.19
LTE Band71	15	133297	36	#0	QPSK	21.82	24.27
LTE Band71	15	133297	36	#Mid	QPSK	21.82	24.27
LTE Band71	15	133297	36	#Max	QPSK	21.91	24.36
LTE Band71	15	133297	75	#0	QPSK	21.79	24.24
LTE Band71	15	133297	1	#0	16QAM	22.52	24.97
LTE Band71	15	133297	1	#Mid	16QAM	23.20	25.65
LTE Band71	15	133297	1	#Max	16QAM	22.64	25.09
LTE Band71	15	133297	36	#0	16QAM	20.92	23.37
LTE Band71	15	133297	36	#Mid	16QAM	20.93	23.38
LTE Band71	15	133297	36	#Max	16QAM	20.92	23.37
LTE Band71	15	133297	75	#0	16QAM	20.81	23.26
LTE Band71	15	133397	1	#0	QPSK	22.58	25.03

LTE Band71	15	133397	1	#Mid	QPSK	22.82	25.27
LTE Band71	15	133397	1	#Max	QPSK	22.69	25.14
LTE Band71	15	133397	36	#0	QPSK	21.92	24.37
LTE Band71	15	133397	36	#Mid	QPSK	21.90	24.35
LTE Band71	15	133397	36	#Max	QPSK	21.90	24.35
LTE Band71	15	133397	75	#0	QPSK	22.04	24.49
LTE Band71	15	133397	1	#0	16QAM	21.78	24.23
LTE Band71	15	133397	1	#Mid	16QAM	21.65	24.10
LTE Band71	15	133397	1	#Max	16QAM	21.14	23.59
LTE Band71	15	133397	36	#0	16QAM	20.79	23.24
LTE Band71	15	133397	36	#Mid	16QAM	20.80	23.25
LTE Band71	15	133397	36	#Max	16QAM	20.75	23.20
LTE Band71	15	133397	75	#0	16QAM	20.78	23.23
LTE Band71	20	133222	1	#0	QPSK	22.75	25.20
LTE Band71	20	133222	1	#Mid	QPSK	23.23	25.68
LTE Band71	20	133222	1	#Max	QPSK	22.45	24.90
LTE Band71	20	133222	50	#0	QPSK	21.88	24.33
LTE Band71	20	133222	50	#Mid	QPSK	21.89	24.34
LTE Band71	20	133222	50	#Max	QPSK	21.88	24.33
LTE Band71	20	133222	100	#0	QPSK	21.97	24.42
LTE Band71	20	133222	1	#0	16QAM	21.94	24.39
LTE Band71	20	133222	1	#Mid	16QAM	22.84	25.29
LTE Band71	20	133222	1	#Max	16QAM	21.86	24.31
LTE Band71	20	133222	50	#0	16QAM	21.10	23.55
LTE Band71	20	133222	50	#Mid	16QAM	21.10	23.55
LTE Band71	20	133222	50	#Max	16QAM	20.90	23.35
LTE Band71	20	133222	100	#0	16QAM	20.91	23.36
LTE Band71	20	133322	1	#0	QPSK	22.95	25.40
LTE Band71	20	133322	1	#Mid	QPSK	23.23	25.68
LTE Band71	20	133322	1	#Max	QPSK	22.87	25.32
LTE Band71	20	133322	50	#0	QPSK	21.87	24.32
LTE Band71	20	133322	50	#Mid	QPSK	21.88	24.33
LTE Band71	20	133322	50	#Max	QPSK	21.92	24.37
LTE Band71	20	133322	100	#0	QPSK	21.85	24.30
LTE Band71	20	133322	1	#0	16QAM	21.53	23.98
LTE Band71	20	133322	1	#Mid	16QAM	21.63	24.08
LTE Band71	20	133322	1	#Max	16QAM	20.94	23.39
LTE Band71	20	133322	50	#0	16QAM	20.95	23.40
LTE Band71	20	133322	50	#Mid	16QAM	20.95	23.40
LTE Band71	20	133322	50	#Max	16QAM	21.00	23.45
LTE Band71	20	133322	100	#0	16QAM	20.79	23.24
LTE Band71	20	133372	1	#0	QPSK	22.79	25.24
LTE Band71	20	133372	1	#Mid	QPSK	23.05	25.50

LTE Band71	20	133372	1	#Max	QPSK	22.60	25.05
LTE Band71	20	133372	50	#0	QPSK	21.86	24.31
LTE Band71	20	133372	50	#Mid	QPSK	21.86	24.31
LTE Band71	20	133372	50	#Max	QPSK	21.96	24.41
LTE Band71	20	133372	100	#0	QPSK	21.90	24.35
LTE Band71	20	133372	1	#0	16QAM	21.78	24.23
LTE Band71	20	133372	1	#Mid	16QAM	22.68	25.13
LTE Band71	20	133372	1	#Max	16QAM	21.89	24.34
LTE Band71	20	133372	50	#0	16QAM	20.89	23.34
LTE Band71	20	133372	50	#Mid	16QAM	20.89	23.34
LTE Band71	20	133372	50	#Max	16QAM	21.01	23.46
LTE Band71	20	133372	100	#0	16QAM	20.83	23.28

6.2 Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3463.80	-63.17	2.70	12.70	Horizontal	-53.17	-13.00	40.17	189
3	5195.20	-54.70	3.20	12.50	Horizontal	-45.40	-13.00	32.40	308
4	6922.00	-71.57	4.20	11.80	Horizontal	-63.97	-13.00	50.97	287
5	8653.20	-66.22	4.40	12.50	Horizontal	-58.12	-13.00	45.12	165
6	10398.60	-61.45	4.70	11.30	Horizontal	-54.85	-13.00	41.85	224
7	12135.80	-62.96	5.20	13.80	Horizontal	-54.36	-13.00	41.36	65
8	15561.00	-63.30	5.70	11.30	Horizontal	-57.70	-13.00	44.70	41
9	13859.20	-62.14	6.10	16.80	Horizontal	-51.44	-13.00	38.44	222
10	17348.60	-62.36	6.10	14.20	Horizontal	-54.26	-13.00	41.26	298

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3464.25	-63.30	2.70	12.70	Horizontal	-53.30	-13.00	40.30	20
3	5197.50	-49.59	3.20	12.50	Horizontal	-40.29	-13.00	27.29	310
4	6930.00	-70.36	4.20	11.80	Horizontal	-62.76	-13.00	49.76	50
5	8662.50	-65.70	4.40	12.50	Horizontal	-57.60	-13.00	44.60	62
6	10395.00	-62.75	4.70	11.30	Horizontal	-56.15	-13.00	43.15	42
7	12127.50	-62.09	5.20	13.80	Horizontal	-53.49	-13.00	40.49	65
8	13860.00	-57.12	5.70	11.30	Horizontal	-51.52	-13.00	38.52	95
9	15592.50	-66.45	6.10	16.80	Horizontal	-55.75	-13.00	42.75	0
10	17325.00	-61.85	6.10	14.20	Horizontal	-53.75	-13.00	40.75	12

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.50	-63.50	2.70	12.70	Horizontal	-53.50	-13.00	40.50	20
3	5191.50	-49.61	3.20	12.50	Horizontal	-40.31	-13.00	27.31	10
4	6930.00	-70.55	4.20	11.80	Horizontal	-62.95	-13.00	49.95	60
5	8662.50	-66.32	4.40	12.50	Horizontal	-58.22	-13.00	45.22	50
6	10380.00	-62.22	4.70	11.30	Horizontal	-55.62	-13.00	42.62	90
7	12110.00	-62.07	5.20	13.80	Horizontal	-53.47	-13.00	40.47	110
8	13840.00	-56.78	5.70	11.30	Horizontal	-51.18	-13.00	38.18	20
9	15570.00	-66.80	6.10	16.80	Horizontal	-56.10	-13.00	43.10	30
10	17300.00	-61.59	6.10	14.20	Horizontal	-53.49	-13.00	40.49	56

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.75	-64.68	2.70	12.70	Horizontal	-54.68	-13.00	41.68	60
3	5170.88	-47.38	3.20	12.50	Horizontal	-38.08	-13.00	25.08	20
4	6930.00	-70.52	4.20	11.80	Horizontal	-62.92	-13.00	49.92	56
5	8662.50	-67.20	4.40	12.50	Horizontal	-59.10	-13.00	46.10	52
6	10395.00	-62.82	4.70	11.30	Horizontal	-56.22	-13.00	43.22	43
7	12127.50	-62.72	5.20	13.80	Horizontal	-54.12	-13.00	41.12	60
8	13860.00	-57.29	5.70	11.30	Horizontal	-51.69	-13.00	38.69	315
9	15592.50	-67.01	6.10	16.80	Horizontal	-56.31	-13.00	43.31	0
10	17325.00	-61.70	6.10	14.20	Horizontal	-53.60	-13.00	40.60	65

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1413.60	-43.23	1.70	8.70	Horizontal	-38.38	-13.00	25.38	50
3	2120.40	-64.75	2.10	11.10	Horizontal	-57.90	-13.00	44.90	60
4	2827.20	-67.62	2.30	13.10	Horizontal	-58.97	-13.00	45.97	20
5	3537.50	-67.25	2.60	12.70	Horizontal	-59.30	-13.00	46.30	60
6	4245.00	-63.63	3.30	12.50	Horizontal	-56.58	-13.00	43.58	52
7	4952.50	-63.40	3.40	12.50	Horizontal	-56.45	-13.00	43.45	63
8	5660.00	-61.56	3.30	12.50	Horizontal	-54.51	-13.00	41.51	59
9	6367.50	-58.21	3.80	11.50	Horizontal	-52.66	-13.00	39.66	62
10	7075.00	-54.69	4.20	11.80	Horizontal	-49.24	-13.00	36.24	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-44.94	1.70	8.70	Horizontal	-40.09	-13.00	27.09	120
3	2115.90	-66.36	2.10	11.10	Horizontal	-59.51	-13.00	46.51	65
4	2820.00	-67.59	2.30	13.10	Horizontal	-58.94	-13.00	45.94	20
5	3525.00	-67.85	2.60	12.70	Horizontal	-59.90	-13.00	46.90	60
6	4230.00	-63.07	3.30	12.50	Horizontal	-56.02	-13.00	43.02	180
7	4935.00	-62.76	3.40	12.50	Horizontal	-55.81	-13.00	42.81	120
8	5640.00	-61.49	3.30	12.50	Horizontal	-54.44	-13.00	41.44	130
9	6345.00	-58.24	3.80	11.50	Horizontal	-52.69	-13.00	39.69	20
10	7050.00	-54.89	4.20	11.80	Horizontal	-49.44	-13.00	36.44	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1405.00	-44.09	1.70	8.70	Horizontal	-39.24	-13.00	26.24	50
3	2107.50	-64.14	2.10	11.10	Horizontal	-57.29	-13.00	44.29	30
4	2810.00	-67.01	2.30	13.10	Horizontal	-58.36	-13.00	45.36	0
5	3512.50	-66.34	2.60	12.70	Horizontal	-58.39	-13.00	45.39	10
6	4215.00	-64.25	3.30	12.50	Horizontal	-57.20	-13.00	44.20	62
7	4917.50	-63.31	3.40	12.50	Horizontal	-56.36	-13.00	43.36	30
8	5620.00	-60.99	3.30	12.50	Horizontal	-53.94	-13.00	40.94	56
9	6322.50	-58.49	3.80	11.50	Horizontal	-52.94	-13.00	39.94	310
10	7025.00	-54.93	4.20	11.80	Horizontal	-49.48	-13.00	36.48	30

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 13 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1559.00	-68.40	1.70	8.70	Horizontal	-61.40	-40.00	21.40	205
3	2339.40	-46.91	2.10	12.00	Horizontal	-39.16	-13.00	26.16	214
4	3118.00	-64.35	2.30	13.10	Horizontal	-55.70	-13.00	42.70	47
5	3897.50	-64.82	2.90	12.50	Horizontal	-57.37	-13.00	44.37	21
6	4677.00	-65.74	3.10	12.50	Horizontal	-58.49	-13.00	45.49	315
7	5456.50	-62.79	3.30	12.50	Horizontal	-55.74	-13.00	42.74	99
8	6236.00	-59.66	3.50	12.80	Horizontal	-52.51	-13.00	39.51	163
9	7015.50	-54.65	4.20	11.80	Horizontal	-49.20	-13.00	36.20	177
10	7795.00	-55.43	4.40	12.30	Horizontal	-49.68	-13.00	36.68	90

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 13 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1576.00	-68.90	1.70	8.70	Horizontal	-61.90	-40.00	21.90	0
3	2333.32	-49.10	2.10	12.00	Horizontal	-41.35	-13.00	28.35	180
4	3108.00	-65.75	2.30	13.10	Horizontal	-57.10	-13.00	44.10	128
5	3885.00	-65.32	2.90	12.50	Horizontal	-57.87	-13.00	44.87	96
6	4662.00	-64.77	3.10	12.50	Horizontal	-57.52	-13.00	44.52	39
7	5439.00	-62.35	3.30	12.50	Horizontal	-55.30	-13.00	42.30	144
8	6216.00	-59.55	3.50	12.80	Horizontal	-52.40	-13.00	39.40	257
9	6993.00	-57.49	4.20	11.80	Horizontal	-52.04	-13.00	39.04	254
10	7770.00	-55.15	4.40	12.30	Horizontal	-49.40	-13.00	36.40	171

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

LTE Band 66 QPSK 1.4MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3489.20	-60.16	2.70	12.70	Horizontal	-50.16	-13.00	37.16	0
3	5233.70	-46.11	3.20	12.50	Horizontal	-36.81	-13.00	23.81	225
4	7018.00	-65.69	4.20	11.80	Horizontal	-58.09	-13.00	45.09	270
5	8772.50	-64.70	4.40	12.50	Horizontal	-56.60	-13.00	43.60	180
6	10527.00	-62.69	4.70	11.80	Horizontal	-55.59	-13.00	42.59	0
7	12281.50	-63.09	5.20	13.80	Horizontal	-54.49	-13.00	41.49	45
8	14036.00	-58.92	5.70	13.20	Horizontal	-51.42	-13.00	38.42	315
9	15790.50	-67.92	6.10	16.80	Horizontal	-57.22	-13.00	44.22	180
10	17545.00	-61.93	6.10	14.20	Horizontal	-53.83	-13.00	40.83	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

LTE Band 66 QPSK 5MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3485.60	-60.09	2.70	12.70	Horizontal	-50.09	-13.00	37.09	45
3	5228.50	-49.70	3.20	12.50	Horizontal	-40.40	-13.00	27.40	90
4	6972.00	-64.84	4.20	11.80	Horizontal	-57.24	-13.00	44.24	180
5	8715.00	-65.86	4.40	12.50	Horizontal	-57.76	-13.00	44.76	0
6	10458.00	-62.68	4.70	11.80	Horizontal	-55.58	-13.00	42.58	45
7	12201.00	-63.86	5.20	13.80	Horizontal	-55.26	-13.00	42.26	315
8	13944.00	-59.70	5.70	13.20	Horizontal	-52.20	-13.00	39.20	180
9	15687.00	-66.78	6.10	16.80	Horizontal	-56.08	-13.00	43.08	45
10	17430.00	-61.41	6.10	14.20	Horizontal	-53.31	-13.00	40.31	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

LTE Band 66 QPSK 20MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3472.20	-59.79	2.70	12.70	Horizontal	-49.79	-13.00	36.79	45
3	5208.50	-46.47	3.20	12.50	Horizontal	-37.17	-13.00	24.17	180
4	6945.75	-66.85	4.20	11.80	Horizontal	-59.25	-13.00	46.25	0
5	8682.00	-65.05	4.40	12.50	Horizontal	-56.95	-13.00	43.95	315
6	10418.63	-60.41	4.70	11.80	Horizontal	-53.31	-13.00	40.31	180
7	12455.00	-59.66	5.20	13.80	Horizontal	-51.06	-13.00	38.06	0
8	13891.50	-59.81	5.70	13.20	Horizontal	-52.31	-13.00	39.31	45
9	15627.00	-68.27	6.10	16.80	Horizontal	-57.57	-13.00	44.57	180
10	17364.38	-61.24	6.10	14.20	Horizontal	-53.14	-13.00	40.14	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
 2. The worst emission was found in the antenna is Horizontal position.

LTE Band 71 QPSK 5MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1431.00	-67.73	1.70	8.70	Horizontal	-62.88	-13.00	49.88	256
3	2146.50	-65.04	2.10	11.10	Horizontal	-58.19	-13.00	45.19	33
4	2862.00	-67.91	2.30	13.10	Horizontal	-59.26	-13.00	46.26	0
5	3577.50	-66.36	2.60	12.70	Horizontal	-58.41	-13.00	45.41	4
6	4293.00	-64.82	3.30	12.50	Horizontal	-57.77	-13.00	44.77	48
7	5008.50	-62.28	3.40	12.50	Horizontal	-55.33	-13.00	42.33	68
8	5724.00	-62.13	3.30	12.50	Horizontal	-55.08	-13.00	42.08	228
9	6439.50	-58.70	3.80	11.50	Horizontal	-53.15	-13.00	40.15	302
10	7155.00	-53.13	4.20	11.80	Horizontal	-47.68	-13.00	34.68	48

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 71 QPSK 20MHz CH- Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1418.20	-68.85	1.70	8.70	Horizontal	-64.00	-13.00	51.00	65
3	2014.73	-67.70	2.10	11.10	Horizontal	-60.85	-13.00	47.85	32
4	2836.40	-67.44	2.30	13.10	Horizontal	-58.79	-13.00	45.79	315
5	3545.50	-67.09	2.60	12.70	Horizontal	-59.14	-13.00	46.14	315
6	4254.60	-64.88	3.30	12.50	Horizontal	-57.83	-13.00	44.83	315
7	4963.70	-63.61	3.40	12.50	Horizontal	-56.66	-13.00	43.66	0
8	5672.80	-61.36	3.30	12.50	Horizontal	-54.31	-13.00	41.31	3
9	6381.90	-56.11	3.80	11.50	Horizontal	-50.56	-13.00	37.56	0
10	7091.00	-54.84	4.20	11.80	Horizontal	-49.39	-13.00	36.39	23

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Horizontal position.

7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Wireless Communication Tester	R&S	CMW500	150415	2024-05-07	2025-05-06
Spectrum Analyzer	R&S	FSV30	100815	2023-12-05	2024-12-04
High-pass filter	Chengyi	HPF 1000MHz	2024021	2024-02-21	2025-02-21
High-pass filter	R&S	HPF 1500MHz	HPF 002	2024-02-21	2025-02-21
High-pass filter	R&S	HPF 3000MHz	HPF 003	2024-02-21	2025-02-21
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2022-09-29	2025-09-28
Horn Antenna	SCHWARZBECK	BBHA 9120D	1594	2023-12-05	2026-12-04
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

***** END OF REPORT *****