

RF TEST REPORT

Applicant Asiatelco Technologies Co.
FCC ID XYO-BTG15L
Product GPS TRACKER
Brand ATEL
Model BTG15L; BTG17L
Report No. EFTA25030149-IE-02-R1V4
Issue Date May 27, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 / FCC CFR 47 Part 22H / FCC CFR 47 Part 24E / FCC CFR47 Part 27C**. 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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TABLE OF CONTENT

1	Test Laboratory	6
1.1	Notes of the Test Report.....	6
1.2.	Test facility	6
1.3	Testing Location.....	6
2	General Description of Equipment under Test.....	7
2.1	Applicant and Manufacturer Information	7
2.2	General information	7
3	Applied Standards.....	9
4	Test Configuration	10
5	Test Case	12
5.1	RF Power Output and Effective Isotropic Radiated Power	12
5.2	Radiated Spurious Emission	13
6	Test Results.....	16
6.1	RF Power Output and Effective (Isotropic) Radiated Power	16
6.2	Radiated Spurious Emission	41
7	Main Test Instruments.....	49
	ANNEX A: The EUT Appearance	50
	ANNEX B: Test Setup Photos	51

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	April 28, 2025
Rev.1	Updated information and data.	April 29, 2025
Rev.2	Updated information.	May 23, 2025
Rev.3	Updated information.	May 27, 2025
Rev.4	Updated information.	May 27, 2025
Note: This revised report (Report No.: EFTA25030149-IE-02-R1V4) supersedes and replaces the previously issued report (Report No.: EFTA25030149-IE-02-R1V3). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of Measurement Results

Test Case	Clause in FCC rules	Limits	Verdict
GSM 850; LTE Band 5			
RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	≤ 7 W (38.45 dBm)	PASS Note 1
Occupied Bandwidth	Refer to the Module report (Report No.: R2411A1747-R1V1; FCC ID: XYO-AMA02R, Grant date: 01/05/2025)		
Band Edge Compliance			
Peak-to-Average Power Ratio			
Frequency Stability			
Spurious Emissions at Antenna Terminals			
Radiated Spurious Emission	2.1053 22.917 (a)	≤ -13 dBm	PASS
GSM 1900; LTE Band 2			
RF Power Output and Effective Isotropic Radiated Power	2.1046 24.232(c)	≤ 2 W (33 dBm)	PASS Note 1
Occupied Bandwidth	Refer to the Module report (Report No.: R2411A1747-R1V1; FCC ID: XYO-AMA02R, Grant date: 01/05/2025)		
Band Edge Compliance			
Peak-to-Average Power Ratio			
Frequency Stability			
Spurious Emissions at Antenna Terminals			
Radiated Spurious Emission	2.1053 24.238(a)	≤ -13 dBm	PASS
LTE Band 4/ LTE Band 66			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(d)(4)	≤ 1 W (30 dBm)	PASS Note 1
Occupied Bandwidth	Refer to the Module report (Report No.: R2411A1747-R1V1; FCC ID: XYO-AMA02R, Grant date: 01/05/2025)		
Band Edge Compliance			
Peak-to-Average Power Ratio			
Frequency Stability			
Spurious Emissions at Antenna Terminals			
Radiated Spurious Emission	2.1053 27.53(h)	≤ -13 dBm	PASS

Test Case	Clause in FCC rules	Limits	Verdict
LTE Band 7			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(h)(2)	$\leq 2 \text{ W (33 dBm)}$	PASS ^{Note 1}
Occupied Bandwidth	Refer to the Module report (Report No.: R2411A1747-R1V1; FCC ID: XYO-AMA02R, Grant date: 01/05/2025)		
Band Edge Compliance			
Peak-to-Average Power Ratio			
Frequency Stability			
Spurious Emissions at Antenna Terminals			
Radiated Spurious Emission	2.1053 27.53(m)	$\leq -25 \text{ dBm}$	PASS
Date of Testing: March 27, 2025 ~ April 14, 2025 Date of Sample Received: March 13, 2025			
Note: 1. Because of the change of antenna gain, ERP/EIRP need to be re-evaluated. 2. 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.			

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	Asiatelco Technologies Co.
Applicant address	289 Bisheng Road, Building 8, 3F, Zhangjiang Hi-Tech Park, Pudong Shanghai China
Manufacturer	Asiatelco Technologies Co.
Manufacturer address	289 Bisheng Road, Building 8, 3F, Zhangjiang Hi-Tech Park, Pudong Shanghai China

2.2 General information

EUT Description				
Model	BTG15L; BTG17L			
Lab internal SN	EFTA25030149-IE-01/S01			
Hardware Version	p2			
Software Version	v5.6.11.7			
Power Supply	External power supply			
Antenna Type	Internal Antenna			
Rated Power Supply Voltage	12VDC			
Operating Voltage	Minimum: 8VDC Maximum: 32VDC			
Operating Temperature	Lowest: -30°C Highest: +75°C			
Testing Temperature	Lowest: -30°C Highest: +50°C			
Operating Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)	Gain (dBi)
	GSM850	824 ~ 849	869 ~ 894	-3.15
	GSM1900	1850 ~ 1910	1930 ~ 1990	2.27
	LTE Band 2	1850 ~ 1910	1930 ~ 1990	2.27
	LTE Band 4	1710 ~ 1755	2110 ~ 2155	2.27
	LTE Band 5	824 ~ 849	869 ~ 894	-3.15
	LTE Band 7	2500 ~ 2570	2620 ~ 2690	2.58
	LTE Band 66	1710 ~ 1780	2110 ~ 2180	2.27
Test Modulation	(GPRS)GMSK,(EGPRS)GMSK/ 8PSK; (LTE) QPSK, 16QAM;			
LTE Category	1			
Power Class	GSM 850: 4 GSM 1900: 1 LTE: 3			
Maximum E.I.R.P./ E.R.P.	GSM850	26.20 dBm		
	GSM1900	29.91 dBm		

	LTE Band 2	26.39 dBm
	LTE Band 4	26.55 dBm
	LTE Band 5	17.80 dBm
	LTE Band 7	27.42 dBm
	LTE Band 66	26.55 dBm

Note:

1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.
2. The customer claims that BTG15L and BTG17L are only different in model, and the others are the same. This report only records BTG15L test data.

3 Applied Standards

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

Test standards:

FCC CFR 47 Part 2 (2024)

FCC CFR 47 Part 22H (2024)

FCC CFR 47 Part 24E (2024)

FCC CFR 47 Part 27C (2024)

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 and the worst case was recorded.

	Main Antenna
GSM	Z axis, horizontal polarization
LTE	X axis, vertical polarization

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 GSM/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
	GSM 850 / GSM 1900
RF Power Output and Effective (Isotropic) Radiated power	GPRS EGPRS
Radiated Spurious Emission	GPRS

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

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 2	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 5	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	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
Radiated Spurious Emission	LTE 2	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 5	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 7	-	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 66	O	-	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

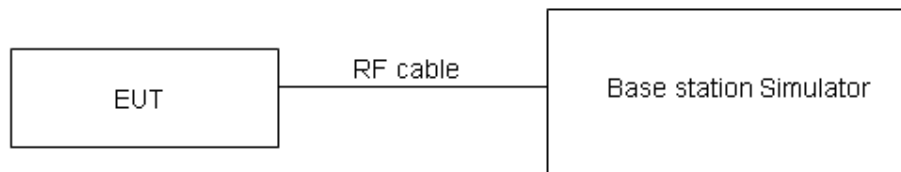
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

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

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

Test Setup



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4 \text{ dB}$ for RF power output, $k = 2$, $U= 1.19 \text{ dB}$ 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:

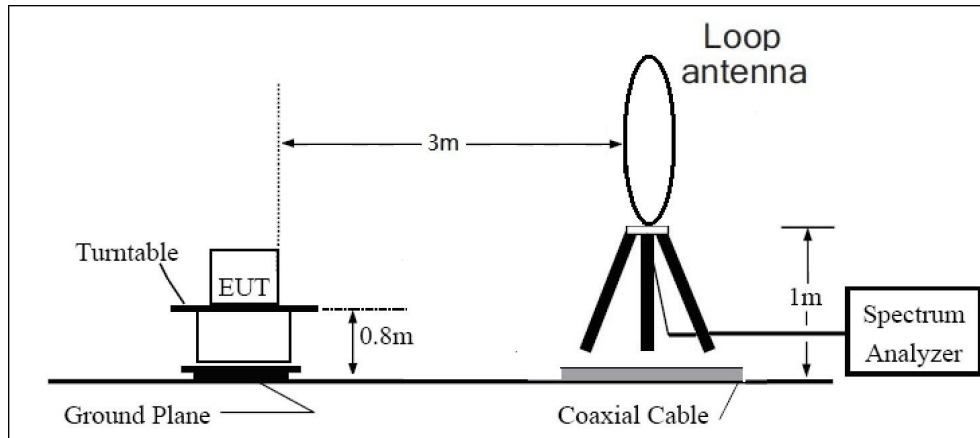
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
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, $\text{ERP} = \text{EIRP} - 2.15\text{dB}$.

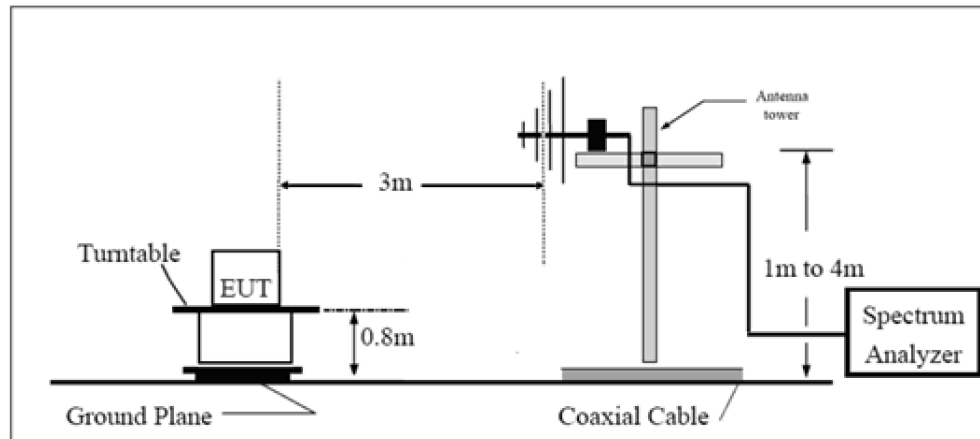
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

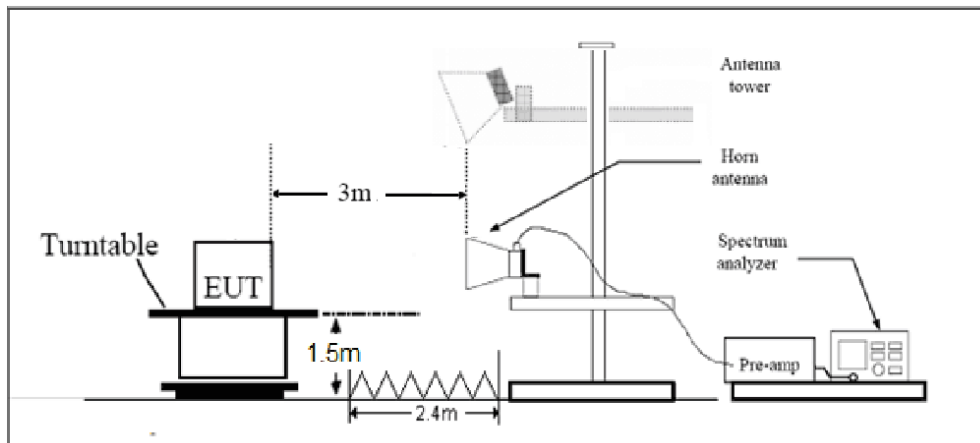
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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

GSM 850		Maximum Output Power (dBm)			ERP (dBm)		
		Channel 128	Channel 190	Channel 251	Channel 128	Channel 190	Channel 251
		824.2 (MHz)	836.6 (MHz)	848.8 (MHz)	824.2 (MHz)	836.6 (MHz)	848.8 (MHz)
GPRS (GMSK)	1Txslot	31.44	31.50	31.20	26.14	26.20	25.90
	2Txslots	31.43	31.20	31.21	26.13	25.90	25.91
	3Txslots	30.07	30.17	29.94	24.77	24.87	24.64
	4Txslots	28.40	28.47	28.20	23.10	23.17	22.90
EGPRS (8PSK)	1Txslot	24.76	24.85	24.95	19.46	19.55	19.65
	2Txslots	23.15	23.14	23.24	17.85	17.84	17.94
	3Txslots	21.01	20.92	21.03	15.71	15.62	15.73
	4Txslots	18.78	18.65	18.79	13.48	13.35	13.49

GSM 1900		Maximum Output Power (dBm)			EIRP (dBm)		
		Channel 512	Channel 661	Channel 810	Channel 512	Channel 661	Channel 810
		1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)	1850.2 (MHz)	1880 (MHz)	1909.8 (MHz)
GPRS (GMSK)	1TXslot	27.54	27.64	27.35	29.81	29.91	29.62
	2TXslots	27.58	27.64	27.35	29.85	29.91	29.62
	3TXslots	26.37	26.51	26.27	28.64	28.78	28.54
	4TXslots	24.50	24.66	24.46	26.77	26.93	26.73
EGPRS (8PSK)	1TXslot	23.87	23.92	24.25	26.14	26.19	26.52
	2TXslots	22.26	22.17	22.58	24.53	24.44	24.85
	3TXslots	20.01	19.86	20.49	22.28	22.13	22.76
	4TXslots	17.51	17.62	18.20	19.78	19.89	20.47

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
LTE Band2	1.4	18607	1	#0	QPSK	23.77	26.04
LTE Band2	1.4	18607	1	#Mid	QPSK	23.83	26.10
LTE Band2	1.4	18607	1	#Max	QPSK	23.75	26.02
LTE Band2	1.4	18607	3	#0	QPSK	23.74	26.01
LTE Band2	1.4	18607	3	#Mid	QPSK	23.74	26.01
LTE Band2	1.4	18607	3	#Max	QPSK	23.69	25.96
LTE Band2	1.4	18607	6	#0	QPSK	22.57	24.84
LTE Band2	1.4	18900	1	#0	QPSK	23.48	25.75
LTE Band2	1.4	18900	1	#Mid	QPSK	23.55	25.82
LTE Band2	1.4	18900	1	#Max	QPSK	23.55	25.82
LTE Band2	1.4	18900	3	#0	QPSK	23.52	25.79
LTE Band2	1.4	18900	3	#Mid	QPSK	23.52	25.79
LTE Band2	1.4	18900	3	#Max	QPSK	23.52	25.79
LTE Band2	1.4	18900	6	#0	QPSK	22.52	24.79
LTE Band2	1.4	19193	1	#0	QPSK	23.10	25.37
LTE Band2	1.4	19193	1	#Mid	QPSK	22.89	25.16
LTE Band2	1.4	19193	1	#Max	QPSK	22.68	24.95
LTE Band2	1.4	19193	3	#0	QPSK	22.94	25.21
LTE Band2	1.4	19193	3	#Mid	QPSK	22.93	25.20
LTE Band2	1.4	19193	3	#Max	QPSK	22.71	24.98
LTE Band2	1.4	19193	6	#0	QPSK	21.80	24.07
LTE Band2	3	18615	1	#0	QPSK	23.71	25.98
LTE Band2	3	18615	1	#Mid	QPSK	23.75	26.02
LTE Band2	3	18615	1	#Max	QPSK	23.54	25.81
LTE Band2	3	18615	8	#0	QPSK	22.62	24.89
LTE Band2	3	18615	8	#Mid	QPSK	22.63	24.90
LTE Band2	3	18615	8	#Max	QPSK	22.57	24.84
LTE Band2	3	18615	15	#0	QPSK	22.61	24.88
LTE Band2	3	18900	1	#0	QPSK	23.46	25.73
LTE Band2	3	18900	1	#Mid	QPSK	23.57	25.84
LTE Band2	3	18900	1	#Max	QPSK	23.52	25.79
LTE Band2	3	18900	8	#0	QPSK	22.42	24.69
LTE Band2	3	18900	8	#Mid	QPSK	22.43	24.70
LTE Band2	3	18900	8	#Max	QPSK	22.59	24.86
LTE Band2	3	18900	15	#0	QPSK	22.48	24.75
LTE Band2	3	19185	1	#0	QPSK	23.63	25.90
LTE Band2	3	19185	1	#Mid	QPSK	23.16	25.43
LTE Band2	3	19185	1	#Max	QPSK	22.63	24.90
LTE Band2	3	19185	8	#0	QPSK	22.35	24.62
LTE Band2	3	19185	8	#Mid	QPSK	22.37	24.64

LTE Band2	3	19185	8	#Max	QPSK	21.90	24.17
LTE Band2	3	19185	15	#0	QPSK	22.08	24.35
LTE Band2	5	18625	1	#0	QPSK	24.02	26.29
LTE Band2	5	18625	1	#Mid	QPSK	23.77	26.04
LTE Band2	5	18625	1	#Max	QPSK	23.72	25.99
LTE Band2	5	18625	12	#0	QPSK	22.65	24.92
LTE Band2	5	18625	12	#Mid	QPSK	22.67	24.94
LTE Band2	5	18625	12	#Max	QPSK	22.46	24.73
LTE Band2	5	18625	25	#0	QPSK	22.54	24.81
LTE Band2	5	18900	1	#0	QPSK	23.69	25.96
LTE Band2	5	18900	1	#Mid	QPSK	23.67	25.94
LTE Band2	5	18900	1	#Max	QPSK	23.84	26.11
LTE Band2	5	18900	12	#0	QPSK	22.49	24.76
LTE Band2	5	18900	12	#Mid	QPSK	22.49	24.76
LTE Band2	5	18900	12	#Max	QPSK	22.65	24.92
LTE Band2	5	18900	25	#0	QPSK	22.49	24.76
LTE Band2	5	19175	1	#0	QPSK	24.12	26.39
LTE Band2	5	19175	1	#Mid	QPSK	23.52	25.79
LTE Band2	5	19175	1	#Max	QPSK	22.88	25.15
LTE Band2	5	19175	12	#0	QPSK	22.68	24.95
LTE Band2	5	19175	12	#Mid	QPSK	22.71	24.98
LTE Band2	5	19175	12	#Max	QPSK	22.06	24.33
LTE Band2	5	19175	25	#0	QPSK	22.40	24.67
LTE Band2	10	18650	1	#0	QPSK	23.99	26.26
LTE Band2	10	18650	1	#Mid	QPSK	23.57	25.84
LTE Band2	10	18650	1	#Max	QPSK	23.66	25.93
LTE Band2	10	18650	25	#0	QPSK	22.33	24.60
LTE Band2	10	18650	25	#Mid	QPSK	22.37	24.64
LTE Band2	10	18650	25	#Max	QPSK	22.05	24.32
LTE Band2	10	18650	50	#0	QPSK	22.19	24.46
LTE Band2	10	18900	1	#0	QPSK	23.65	25.92
LTE Band2	10	18900	1	#Mid	QPSK	23.58	25.85
LTE Band2	10	18900	1	#Max	QPSK	23.71	25.98
LTE Band2	10	18900	25	#0	QPSK	22.36	24.63
LTE Band2	10	18900	25	#Mid	QPSK	22.36	24.63
LTE Band2	10	18900	25	#Max	QPSK	22.39	24.66
LTE Band2	10	18900	50	#0	QPSK	22.24	24.51
LTE Band2	10	19150	1	#0	QPSK	23.65	25.92
LTE Band2	10	19150	1	#Mid	QPSK	23.97	26.24
LTE Band2	10	19150	1	#Max	QPSK	23.09	25.36
LTE Band2	10	19150	25	#0	QPSK	22.56	24.83
LTE Band2	10	19150	25	#Mid	QPSK	22.59	24.86
LTE Band2	10	19150	25	#Max	QPSK	22.33	24.60

LTE Band2	10	19150	50	#0	QPSK	22.48	24.75
LTE Band2	15	18675	1	#0	QPSK	24.05	26.32
LTE Band2	15	18675	1	#Mid	QPSK	23.45	25.72
LTE Band2	15	18675	1	#Max	QPSK	23.09	25.36
LTE Band2	15	18675	36	#0	QPSK	22.45	24.72
LTE Band2	15	18675	36	#Mid	QPSK	22.46	24.73
LTE Band2	15	18675	36	#Max	QPSK	21.97	24.24
LTE Band2	15	18675	75	#0	QPSK	22.22	24.49
LTE Band2	15	18900	1	#0	QPSK	23.50	25.77
LTE Band2	15	18900	1	#Mid	QPSK	23.61	25.88
LTE Band2	15	18900	1	#Max	QPSK	23.38	25.65
LTE Band2	15	18900	36	#0	QPSK	22.44	24.71
LTE Band2	15	18900	36	#Mid	QPSK	22.43	24.70
LTE Band2	15	18900	36	#Max	QPSK	22.52	24.79
LTE Band2	15	18900	75	#0	QPSK	22.26	24.53
LTE Band2	15	19125	1	#0	QPSK	22.97	25.24
LTE Band2	15	19125	1	#Mid	QPSK	23.94	26.21
LTE Band2	15	19125	1	#Max	QPSK	23.06	25.33
LTE Band2	15	19125	36	#0	QPSK	22.05	24.32
LTE Band2	15	19125	36	#Mid	QPSK	22.09	24.36
LTE Band2	15	19125	36	#Max	QPSK	22.69	24.96
LTE Band2	15	19125	75	#0	QPSK	22.41	24.68
LTE Band2	20	18700	1	#0	QPSK	24.00	26.27
LTE Band2	20	18700	1	#Mid	QPSK	23.33	25.60
LTE Band2	20	18700	1	#Max	QPSK	23.54	25.81
LTE Band2	20	18700	50	#0	QPSK	22.14	24.41
LTE Band2	20	18700	50	#Mid	QPSK	22.15	24.42
LTE Band2	20	18700	50	#Max	QPSK	21.86	24.13
LTE Band2	20	18700	100	#0	QPSK	22.21	24.48
LTE Band2	20	18900	1	#0	QPSK	23.70	25.97
LTE Band2	20	18900	1	#Mid	QPSK	23.66	25.93
LTE Band2	20	18900	1	#Max	QPSK	23.19	25.46
LTE Band2	20	18900	50	#0	QPSK	22.43	24.70
LTE Band2	20	18900	50	#Mid	QPSK	22.43	24.70
LTE Band2	20	18900	50	#Max	QPSK	22.29	24.56
LTE Band2	20	18900	100	#0	QPSK	22.07	24.34
LTE Band2	20	19100	1	#0	QPSK	22.94	25.21
LTE Band2	20	19100	1	#Mid	QPSK	23.39	25.66
LTE Band2	20	19100	1	#Max	QPSK	23.16	25.43
LTE Band2	20	19100	50	#0	QPSK	21.69	23.96
LTE Band2	20	19100	50	#Mid	QPSK	21.73	24.00
LTE Band2	20	19100	50	#Max	QPSK	22.63	24.90
LTE Band2	20	19100	100	#0	QPSK	22.14	24.41

LTE Band2	1.4	18607	1	#0	16QAM	23.03	25.30
LTE Band2	1.4	18607	1	#Mid	16QAM	23.12	25.39
LTE Band2	1.4	18607	1	#Max	16QAM	23.01	25.28
LTE Band2	1.4	18607	3	#0	16QAM	23.15	25.42
LTE Band2	1.4	18607	3	#Mid	16QAM	23.15	25.42
LTE Band2	1.4	18607	3	#Max	16QAM	23.16	25.43
LTE Band2	1.4	18607	6	#0	16QAM	21.96	24.23
LTE Band2	1.4	18900	1	#0	16QAM	22.85	25.12
LTE Band2	1.4	18900	1	#Mid	16QAM	22.95	25.22
LTE Band2	1.4	18900	1	#Max	16QAM	22.98	25.25
LTE Band2	1.4	18900	3	#0	16QAM	22.76	25.03
LTE Band2	1.4	18900	3	#Mid	16QAM	22.76	25.03
LTE Band2	1.4	18900	3	#Max	16QAM	22.81	25.08
LTE Band2	1.4	18900	6	#0	16QAM	21.77	24.04
LTE Band2	1.4	19193	1	#0	16QAM	22.15	24.42
LTE Band2	1.4	19193	1	#Mid	16QAM	21.91	24.18
LTE Band2	1.4	19193	1	#Max	16QAM	21.75	24.02
LTE Band2	1.4	19193	3	#0	16QAM	22.08	24.35
LTE Band2	1.4	19193	3	#Mid	16QAM	22.08	24.35
LTE Band2	1.4	19193	3	#Max	16QAM	21.84	24.11
LTE Band2	1.4	19193	6	#0	16QAM	21.06	23.33
LTE Band2	3	18615	1	#0	16QAM	23.34	25.61
LTE Band2	3	18615	1	#Mid	16QAM	23.31	25.58
LTE Band2	3	18615	1	#Max	16QAM	23.13	25.40
LTE Band2	3	18615	8	#0	16QAM	21.90	24.17
LTE Band2	3	18615	8	#Mid	16QAM	21.91	24.18
LTE Band2	3	18615	8	#Max	16QAM	21.93	24.20
LTE Band2	3	18615	15	#0	16QAM	21.88	24.15
LTE Band2	3	18900	1	#0	16QAM	22.85	25.12
LTE Band2	3	18900	1	#Mid	16QAM	22.96	25.23
LTE Band2	3	18900	1	#Max	16QAM	22.90	25.17
LTE Band2	3	18900	8	#0	16QAM	21.80	24.07
LTE Band2	3	18900	8	#Mid	16QAM	21.80	24.07
LTE Band2	3	18900	8	#Max	16QAM	21.85	24.12
LTE Band2	3	18900	15	#0	16QAM	21.66	23.93
LTE Band2	3	19185	1	#0	16QAM	22.77	25.04
LTE Band2	3	19185	1	#Mid	16QAM	22.26	24.53
LTE Band2	3	19185	1	#Max	16QAM	21.73	24.00
LTE Band2	3	19185	8	#0	16QAM	21.67	23.94
LTE Band2	3	19185	8	#Mid	16QAM	21.69	23.96
LTE Band2	3	19185	8	#Max	16QAM	21.24	23.51
LTE Band2	3	19185	15	#0	16QAM	21.49	23.76
LTE Band2	5	18625	1	#0	16QAM	23.46	25.73

LTE Band2	5	18625	1	#Mid	16QAM	23.32	25.59
LTE Band2	5	18625	1	#Max	16QAM	23.12	25.39
LTE Band2	5	18625	12	#0	16QAM	21.87	24.14
LTE Band2	5	18625	12	#Mid	16QAM	21.89	24.16
LTE Band2	5	18625	12	#Max	16QAM	21.69	23.96
LTE Band2	5	18625	25	#0	16QAM	21.83	24.10
LTE Band2	5	18900	1	#0	16QAM	23.07	25.34
LTE Band2	5	18900	1	#Mid	16QAM	23.05	25.32
LTE Band2	5	18900	1	#Max	16QAM	23.23	25.50
LTE Band2	5	18900	12	#0	16QAM	21.81	24.08
LTE Band2	5	18900	12	#Mid	16QAM	21.82	24.09
LTE Band2	5	18900	12	#Max	16QAM	21.86	24.13
LTE Band2	5	18900	25	#0	16QAM	21.71	23.98
LTE Band2	5	19175	1	#0	16QAM	23.57	25.84
LTE Band2	5	19175	1	#Mid	16QAM	22.93	25.20
LTE Band2	5	19175	1	#Max	16QAM	22.23	24.50
LTE Band2	5	19175	12	#0	16QAM	22.04	24.31
LTE Band2	5	19175	12	#Mid	16QAM	22.07	24.34
LTE Band2	5	19175	12	#Max	16QAM	21.49	23.76
LTE Band2	5	19175	25	#0	16QAM	21.74	24.01
LTE Band2	10	18650	1	#0	16QAM	23.48	25.75
LTE Band2	10	18650	1	#Mid	16QAM	23.07	25.34
LTE Band2	10	18650	1	#Max	16QAM	22.87	25.14
LTE Band2	10	18650	25	#0	16QAM	21.71	23.98
LTE Band2	10	18650	25	#Mid	16QAM	21.72	23.99
LTE Band2	10	18650	25	#Max	16QAM	21.46	23.73
LTE Band2	10	18900	1	#0	16QAM	23.00	25.27
LTE Band2	10	18900	1	#Mid	16QAM	22.92	25.19
LTE Band2	10	18900	1	#Max	16QAM	22.98	25.25
LTE Band2	10	18900	25	#0	16QAM	21.74	24.01
LTE Band2	10	18900	25	#Mid	16QAM	21.74	24.01
LTE Band2	10	18900	25	#Max	16QAM	21.80	24.07
LTE Band2	10	19150	1	#0	16QAM	22.74	25.01
LTE Band2	10	19150	1	#Mid	16QAM	23.04	25.31
LTE Band2	10	19150	1	#Max	16QAM	22.09	24.36
LTE Band2	10	19150	25	#0	16QAM	21.77	24.04
LTE Band2	10	19150	25	#Mid	16QAM	21.80	24.07
LTE Band2	10	19150	25	#Max	16QAM	21.61	23.88
LTE Band2	15	18675	1	#0	16QAM	23.47	25.74
LTE Band2	15	18675	1	#Mid	16QAM	22.82	25.09
LTE Band2	15	18675	1	#Max	16QAM	22.43	24.70
LTE Band2	15	18900	1	#0	16QAM	22.90	25.17
LTE Band2	15	18900	1	#Mid	16QAM	22.96	25.23

LTE Band2	15	18900	1	#Max	16QAM	22.71	24.98
LTE Band2	15	19125	1	#0	16QAM	22.21	24.48
LTE Band2	15	19125	1	#Mid	16QAM	23.16	25.43
LTE Band2	15	19125	1	#Max	16QAM	22.12	24.39
LTE Band2	20	18700	1	#0	16QAM	23.22	25.49
LTE Band2	20	18700	1	#Mid	16QAM	22.62	24.89
LTE Band2	20	18700	1	#Max	16QAM	22.68	24.95
LTE Band2	20	18900	1	#0	16QAM	22.57	24.84
LTE Band2	20	18900	1	#Mid	16QAM	22.67	24.94
LTE Band2	20	18900	1	#Max	16QAM	22.14	24.41
LTE Band2	20	19100	1	#0	16QAM	21.83	24.10
LTE Band2	20	19100	1	#Mid	16QAM	22.49	24.76
LTE Band2	20	19100	1	#Max	16QAM	21.94	24.21

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
LTE Band4	1.4	19957	1	#0	QPSK	23.05	25.32
LTE Band4	1.4	19957	1	#Mid	QPSK	23.12	25.39
LTE Band4	1.4	19957	1	#Max	QPSK	23.06	25.33
LTE Band4	1.4	19957	3	#0	QPSK	23.03	25.30
LTE Band4	1.4	19957	3	#Mid	QPSK	23.03	25.30
LTE Band4	1.4	19957	3	#Max	QPSK	23.09	25.36
LTE Band4	1.4	19957	6	#0	QPSK	22.07	24.34
LTE Band4	1.4	20175	1	#0	QPSK	23.77	26.04
LTE Band4	1.4	20175	1	#Mid	QPSK	23.82	26.09
LTE Band4	1.4	20175	1	#Max	QPSK	23.78	26.05
LTE Band4	1.4	20175	3	#0	QPSK	23.80	26.07
LTE Band4	1.4	20175	3	#Mid	QPSK	23.80	26.07
LTE Band4	1.4	20175	3	#Max	QPSK	23.77	26.04
LTE Band4	1.4	20175	6	#0	QPSK	22.87	25.14
LTE Band4	1.4	20393	1	#0	QPSK	22.83	25.10
LTE Band4	1.4	20393	1	#Mid	QPSK	22.74	25.01
LTE Band4	1.4	20393	1	#Max	QPSK	22.69	24.96
LTE Band4	1.4	20393	3	#0	QPSK	22.72	24.99
LTE Band4	1.4	20393	3	#Mid	QPSK	22.72	24.99
LTE Band4	1.4	20393	3	#Max	QPSK	22.66	24.93
LTE Band4	1.4	20393	6	#0	QPSK	21.79	24.06
LTE Band4	3	19965	1	#0	QPSK	23.04	25.31
LTE Band4	3	19965	1	#Mid	QPSK	23.01	25.28
LTE Band4	3	19965	1	#Max	QPSK	22.89	25.16
LTE Band4	3	19965	8	#0	QPSK	22.07	24.34
LTE Band4	3	19965	8	#Mid	QPSK	22.08	24.35
LTE Band4	3	19965	8	#Max	QPSK	22.06	24.33

LTE Band4	3	19965	15	#0	QPSK	22.06	24.33
LTE Band4	3	20175	1	#0	QPSK	23.65	25.92
LTE Band4	3	20175	1	#Mid	QPSK	23.80	26.07
LTE Band4	3	20175	1	#Max	QPSK	23.63	25.90
LTE Band4	3	20175	8	#0	QPSK	22.82	25.09
LTE Band4	3	20175	8	#Mid	QPSK	22.82	25.09
LTE Band4	3	20175	8	#Max	QPSK	22.86	25.13
LTE Band4	3	20175	15	#0	QPSK	22.81	25.08
LTE Band4	3	20385	1	#0	QPSK	22.87	25.14
LTE Band4	3	20385	1	#Mid	QPSK	22.81	25.08
LTE Band4	3	20385	1	#Max	QPSK	22.65	24.92
LTE Band4	3	20385	8	#0	QPSK	21.87	24.14
LTE Band4	3	20385	8	#Mid	QPSK	21.88	24.15
LTE Band4	3	20385	8	#Max	QPSK	21.84	24.11
LTE Band4	3	20385	15	#0	QPSK	21.81	24.08
LTE Band4	5	19975	1	#0	QPSK	23.23	25.50
LTE Band4	5	19975	1	#Mid	QPSK	23.09	25.36
LTE Band4	5	19975	1	#Max	QPSK	23.13	25.40
LTE Band4	5	19975	12	#0	QPSK	22.03	24.30
LTE Band4	5	19975	12	#Mid	QPSK	22.04	24.31
LTE Band4	5	19975	12	#Max	QPSK	22.06	24.33
LTE Band4	5	19975	25	#0	QPSK	22.05	24.32
LTE Band4	5	20175	1	#0	QPSK	23.76	26.03
LTE Band4	5	20175	1	#Mid	QPSK	23.86	26.13
LTE Band4	5	20175	1	#Max	QPSK	23.79	26.06
LTE Band4	5	20175	12	#0	QPSK	22.79	25.06
LTE Band4	5	20175	12	#Mid	QPSK	22.80	25.07
LTE Band4	5	20175	12	#Max	QPSK	22.77	25.04
LTE Band4	5	20175	25	#0	QPSK	22.77	25.04
LTE Band4	5	20375	1	#0	QPSK	23.05	25.32
LTE Band4	5	20375	1	#Mid	QPSK	22.83	25.10
LTE Band4	5	20375	1	#Max	QPSK	22.73	25.00
LTE Band4	5	20375	12	#0	QPSK	21.91	24.18
LTE Band4	5	20375	12	#Mid	QPSK	21.93	24.20
LTE Band4	5	20375	12	#Max	QPSK	21.78	24.05
LTE Band4	5	20375	25	#0	QPSK	21.89	24.16
LTE Band4	10	20000	1	#0	QPSK	23.17	25.44
LTE Band4	10	20000	1	#Mid	QPSK	23.04	25.31
LTE Band4	10	20000	1	#Max	QPSK	23.38	25.65
LTE Band4	10	20000	25	#0	QPSK	21.82	24.09
LTE Band4	10	20000	25	#Mid	QPSK	21.83	24.10
LTE Band4	10	20000	25	#Max	QPSK	22.02	24.29
LTE Band4	10	20000	50	#0	QPSK	21.89	24.16

LTE Band4	10	20175	1	#0	QPSK	23.54	25.81
LTE Band4	10	20175	1	#Mid	QPSK	23.74	26.01
LTE Band4	10	20175	1	#Max	QPSK	23.58	25.85
LTE Band4	10	20175	25	#0	QPSK	22.59	24.86
LTE Band4	10	20175	25	#Mid	QPSK	22.59	24.86
LTE Band4	10	20175	25	#Max	QPSK	22.55	24.82
LTE Band4	10	20175	50	#0	QPSK	22.56	24.83
LTE Band4	10	20350	1	#0	QPSK	23.34	25.61
LTE Band4	10	20350	1	#Mid	QPSK	22.98	25.25
LTE Band4	10	20350	1	#Max	QPSK	22.75	25.02
LTE Band4	10	20350	25	#0	QPSK	21.90	24.17
LTE Band4	10	20350	25	#Mid	QPSK	21.93	24.20
LTE Band4	10	20350	25	#Max	QPSK	21.65	23.92
LTE Band4	10	20350	50	#0	QPSK	21.84	24.11
LTE Band4	15	20025	1	#0	QPSK	23.11	25.38
LTE Band4	15	20025	1	#Mid	QPSK	23.24	25.51
LTE Band4	15	20025	1	#Max	QPSK	23.47	25.74
LTE Band4	15	20025	36	#0	QPSK	22.01	24.28
LTE Band4	15	20025	36	#Mid	QPSK	22.01	24.28
LTE Band4	15	20025	36	#Max	QPSK	22.47	24.74
LTE Band4	15	20025	75	#0	QPSK	22.28	24.55
LTE Band4	15	20175	1	#0	QPSK	23.50	25.77
LTE Band4	15	20175	1	#Mid	QPSK	23.79	26.06
LTE Band4	15	20175	1	#Max	QPSK	23.48	25.75
LTE Band4	15	20175	36	#0	QPSK	22.65	24.92
LTE Band4	15	20175	36	#Mid	QPSK	22.64	24.91
LTE Band4	15	20175	36	#Max	QPSK	22.63	24.90
LTE Band4	15	20175	75	#0	QPSK	22.65	24.92
LTE Band4	15	20325	1	#0	QPSK	23.56	25.83
LTE Band4	15	20325	1	#Mid	QPSK	23.19	25.46
LTE Band4	15	20325	1	#Max	QPSK	22.78	25.05
LTE Band4	15	20325	36	#0	QPSK	22.30	24.57
LTE Band4	15	20325	36	#Mid	QPSK	22.34	24.61
LTE Band4	15	20325	36	#Max	QPSK	21.94	24.21
LTE Band4	15	20325	75	#0	QPSK	22.11	24.38
LTE Band4	20	20050	1	#0	QPSK	22.99	25.26
LTE Band4	20	20050	1	#Mid	QPSK	23.45	25.72
LTE Band4	20	20050	1	#Max	QPSK	23.51	25.78
LTE Band4	20	20050	50	#0	QPSK	22.00	24.27
LTE Band4	20	20050	50	#Mid	QPSK	21.99	24.26
LTE Band4	20	20050	50	#Max	QPSK	22.48	24.75
LTE Band4	20	20050	100	#0	QPSK	22.40	24.67
LTE Band4	20	20175	1	#0	QPSK	23.50	25.77

LTE Band4	20	20175	1	#Mid	QPSK	23.91	26.18
LTE Band4	20	20175	1	#Max	QPSK	23.33	25.60
LTE Band4	20	20175	50	#0	QPSK	22.58	24.85
LTE Band4	20	20175	50	#Mid	QPSK	22.59	24.86
LTE Band4	20	20175	50	#Max	QPSK	22.46	24.73
LTE Band4	20	20175	100	#0	QPSK	22.55	24.82
LTE Band4	20	20300	1	#0	QPSK	23.59	25.86
LTE Band4	20	20300	1	#Mid	QPSK	23.43	25.70
LTE Band4	20	20300	1	#Max	QPSK	22.67	24.94
LTE Band4	20	20300	50	#0	QPSK	22.18	24.45
LTE Band4	20	20300	50	#Mid	QPSK	22.21	24.48
LTE Band4	20	20300	50	#Max	QPSK	21.95	24.22
LTE Band4	20	20300	100	#0	QPSK	22.14	24.41
LTE Band4	1.4	19957	1	#0	16QAM	22.47	24.74
LTE Band4	1.4	19957	1	#Mid	16QAM	22.58	24.85
LTE Band4	1.4	19957	1	#Max	16QAM	22.50	24.77
LTE Band4	1.4	19957	3	#0	16QAM	22.62	24.89
LTE Band4	1.4	19957	3	#Mid	16QAM	22.61	24.88
LTE Band4	1.4	19957	3	#Max	16QAM	22.62	24.89
LTE Band4	1.4	19957	6	#0	16QAM	21.38	23.65
LTE Band4	1.4	20175	1	#0	16QAM	23.12	25.39
LTE Band4	1.4	20175	1	#Mid	16QAM	23.14	25.41
LTE Band4	1.4	20175	1	#Max	16QAM	23.14	25.41
LTE Band4	1.4	20175	3	#0	16QAM	23.02	25.29
LTE Band4	1.4	20175	3	#Mid	16QAM	23.02	25.29
LTE Band4	1.4	20175	3	#Max	16QAM	22.99	25.26
LTE Band4	1.4	20175	6	#0	16QAM	21.88	24.15
LTE Band4	1.4	20393	1	#0	16QAM	22.27	24.54
LTE Band4	1.4	20393	1	#Mid	16QAM	22.15	24.42
LTE Band4	1.4	20393	1	#Max	16QAM	22.20	24.47
LTE Band4	1.4	20393	3	#0	16QAM	22.25	24.52
LTE Band4	1.4	20393	3	#Mid	16QAM	22.24	24.51
LTE Band4	1.4	20393	3	#Max	16QAM	22.25	24.52
LTE Band4	1.4	20393	6	#0	16QAM	21.02	23.29
LTE Band4	3	19965	1	#0	16QAM	22.71	24.98
LTE Band4	3	19965	1	#Mid	16QAM	22.73	25.00
LTE Band4	3	19965	1	#Max	16QAM	22.58	24.85
LTE Band4	3	19965	8	#0	16QAM	21.37	23.64
LTE Band4	3	19965	8	#Mid	16QAM	21.38	23.65
LTE Band4	3	19965	8	#Max	16QAM	21.35	23.62
LTE Band4	3	19965	15	#0	16QAM	21.31	23.58
LTE Band4	3	20175	1	#0	16QAM	22.99	25.26
LTE Band4	3	20175	1	#Mid	16QAM	23.17	25.44

LTE Band4	3	20175	1	#Max	16QAM	23.05	25.32
LTE Band4	3	20175	8	#0	16QAM	21.89	24.16
LTE Band4	3	20175	8	#Mid	16QAM	21.89	24.16
LTE Band4	3	20175	8	#Max	16QAM	21.97	24.24
LTE Band4	3	20175	15	#0	16QAM	21.80	24.07
LTE Band4	3	20385	1	#0	16QAM	22.32	24.59
LTE Band4	3	20385	1	#Mid	16QAM	22.25	24.52
LTE Band4	3	20385	1	#Max	16QAM	22.13	24.40
LTE Band4	3	20385	8	#0	16QAM	21.17	23.44
LTE Band4	3	20385	8	#Mid	16QAM	21.19	23.46
LTE Band4	3	20385	8	#Max	16QAM	21.10	23.37
LTE Band4	3	20385	15	#0	16QAM	21.13	23.40
LTE Band4	5	19975	1	#0	16QAM	22.95	25.22
LTE Band4	5	19975	1	#Mid	16QAM	22.86	25.13
LTE Band4	5	19975	1	#Max	16QAM	22.80	25.07
LTE Band4	5	19975	12	#0	16QAM	21.33	23.60
LTE Band4	5	19975	12	#Mid	16QAM	21.32	23.59
LTE Band4	5	19975	12	#Max	16QAM	21.29	23.56
LTE Band4	5	19975	25	#0	16QAM	21.33	23.60
LTE Band4	5	20175	1	#0	16QAM	23.13	25.40
LTE Band4	5	20175	1	#Mid	16QAM	23.18	25.45
LTE Band4	5	20175	1	#Max	16QAM	23.21	25.48
LTE Band4	5	20175	12	#0	16QAM	21.77	24.04
LTE Band4	5	20175	12	#Mid	16QAM	21.77	24.04
LTE Band4	5	20175	12	#Max	16QAM	21.87	24.14
LTE Band4	5	20175	25	#0	16QAM	21.84	24.11
LTE Band4	5	20375	1	#0	16QAM	22.76	25.03
LTE Band4	5	20375	1	#Mid	16QAM	22.65	24.92
LTE Band4	5	20375	1	#Max	16QAM	22.52	24.79
LTE Band4	5	20375	12	#0	16QAM	21.22	23.49
LTE Band4	5	20375	12	#Mid	16QAM	21.24	23.51
LTE Band4	5	20375	12	#Max	16QAM	21.14	23.41
LTE Band4	5	20375	25	#0	16QAM	21.17	23.44
LTE Band4	10	20000	1	#0	16QAM	22.27	24.54
LTE Band4	10	20000	1	#Mid	16QAM	22.29	24.56
LTE Band4	10	20000	1	#Max	16QAM	22.48	24.75
LTE Band4	10	20000	25	#0	16QAM	21.07	23.34
LTE Band4	10	20000	25	#Mid	16QAM	21.07	23.34
LTE Band4	10	20000	25	#Max	16QAM	21.15	23.42
LTE Band4	10	20175	1	#0	16QAM	23.01	25.28
LTE Band4	10	20175	1	#Mid	16QAM	23.16	25.43
LTE Band4	10	20175	1	#Max	16QAM	23.13	25.40
LTE Band4	10	20175	25	#0	16QAM	21.58	23.85

LTE Band4	10	20175	25	#Mid	16QAM	21.57	23.84
LTE Band4	10	20175	25	#Max	16QAM	21.68	23.95
LTE Band4	10	20350	1	#0	16QAM	22.81	25.08
LTE Band4	10	20350	1	#Mid	16QAM	22.45	24.72
LTE Band4	10	20350	1	#Max	16QAM	22.25	24.52
LTE Band4	10	20350	25	#0	16QAM	21.16	23.43
LTE Band4	10	20350	25	#Mid	16QAM	21.18	23.45
LTE Band4	10	20350	25	#Max	16QAM	20.90	23.17
LTE Band4	15	20025	1	#0	16QAM	22.66	24.93
LTE Band4	15	20025	1	#Mid	16QAM	22.77	25.04
LTE Band4	15	20025	1	#Max	16QAM	23.08	25.35
LTE Band4	15	20175	1	#0	16QAM	22.91	25.18
LTE Band4	15	20175	1	#Mid	16QAM	23.21	25.48
LTE Band4	15	20175	1	#Max	16QAM	22.95	25.22
LTE Band4	15	20325	1	#0	16QAM	22.83	25.10
LTE Band4	15	20325	1	#Mid	16QAM	22.60	24.87
LTE Band4	15	20325	1	#Max	16QAM	22.19	24.46
LTE Band4	20	20050	1	#0	16QAM	22.46	24.73
LTE Band4	20	20050	1	#Mid	16QAM	22.91	25.18
LTE Band4	20	20050	1	#Max	16QAM	22.94	25.21
LTE Band4	20	20175	1	#0	16QAM	22.55	24.82
LTE Band4	20	20175	1	#Mid	16QAM	22.96	25.23
LTE Band4	20	20175	1	#Max	16QAM	22.51	24.78
LTE Band4	20	20300	1	#0	16QAM	22.63	24.90
LTE Band4	20	20300	1	#Mid	16QAM	22.47	24.74
LTE Band4	20	20300	1	#Max	16QAM	21.83	24.10

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
LTE Band5	1.4	20407	1	#0	QPSK	22.89	17.59
LTE Band5	1.4	20407	1	#Mid	QPSK	23.00	17.70
LTE Band5	1.4	20407	1	#Max	QPSK	22.96	17.66
LTE Band5	1.4	20407	3	#0	QPSK	22.86	17.56
LTE Band5	1.4	20407	3	#Mid	QPSK	22.86	17.56
LTE Band5	1.4	20407	3	#Max	QPSK	22.89	17.59
LTE Band5	1.4	20407	6	#0	QPSK	21.86	16.56
LTE Band5	1.4	20525	1	#0	QPSK	22.69	17.39
LTE Band5	1.4	20525	1	#Mid	QPSK	22.74	17.44
LTE Band5	1.4	20525	1	#Max	QPSK	22.70	17.40
LTE Band5	1.4	20525	3	#0	QPSK	22.67	17.37
LTE Band5	1.4	20525	3	#Mid	QPSK	22.67	17.37
LTE Band5	1.4	20525	3	#Max	QPSK	22.67	17.37
LTE Band5	1.4	20525	6	#0	QPSK	21.77	16.47

LTE Band5	1.4	20643	1	#0	QPSK	22.37	17.07
LTE Band5	1.4	20643	1	#Mid	QPSK	22.29	16.99
LTE Band5	1.4	20643	1	#Max	QPSK	22.25	16.95
LTE Band5	1.4	20643	3	#0	QPSK	22.25	16.95
LTE Band5	1.4	20643	3	#Mid	QPSK	22.25	16.95
LTE Band5	1.4	20643	3	#Max	QPSK	22.22	16.92
LTE Band5	1.4	20643	6	#0	QPSK	21.07	15.77
LTE Band5	3	20415	1	#0	QPSK	22.87	17.57
LTE Band5	3	20415	1	#Mid	QPSK	22.94	17.64
LTE Band5	3	20415	1	#Max	QPSK	22.73	17.43
LTE Band5	3	20415	8	#0	QPSK	21.91	16.61
LTE Band5	3	20415	8	#Mid	QPSK	21.90	16.60
LTE Band5	3	20415	8	#Max	QPSK	21.90	16.60
LTE Band5	3	20415	15	#0	QPSK	21.89	16.59
LTE Band5	3	20525	1	#0	QPSK	22.63	17.33
LTE Band5	3	20525	1	#Mid	QPSK	22.72	17.42
LTE Band5	3	20525	1	#Max	QPSK	22.76	17.46
LTE Band5	3	20525	8	#0	QPSK	21.81	16.51
LTE Band5	3	20525	8	#Mid	QPSK	21.80	16.50
LTE Band5	3	20525	8	#Max	QPSK	21.79	16.49
LTE Band5	3	20525	15	#0	QPSK	21.74	16.44
LTE Band5	3	20635	1	#0	QPSK	22.37	17.07
LTE Band5	3	20635	1	#Mid	QPSK	22.39	17.09
LTE Band5	3	20635	1	#Max	QPSK	22.27	16.97
LTE Band5	3	20635	8	#0	QPSK	21.24	15.94
LTE Band5	3	20635	8	#Mid	QPSK	21.27	15.97
LTE Band5	3	20635	8	#Max	QPSK	21.23	15.93
LTE Band5	3	20635	15	#0	QPSK	21.24	15.94
LTE Band5	5	20425	1	#0	QPSK	23.09	17.79
LTE Band5	5	20425	1	#Mid	QPSK	22.90	17.60
LTE Band5	5	20425	1	#Max	QPSK	22.86	17.56
LTE Band5	5	20425	12	#0	QPSK	21.91	16.61
LTE Band5	5	20425	12	#Mid	QPSK	21.90	16.60
LTE Band5	5	20425	12	#Max	QPSK	21.82	16.52
LTE Band5	5	20425	25	#0	QPSK	21.85	16.55
LTE Band5	5	20525	1	#0	QPSK	22.82	17.52
LTE Band5	5	20525	1	#Mid	QPSK	22.80	17.50
LTE Band5	5	20525	1	#Max	QPSK	22.95	17.65
LTE Band5	5	20525	12	#0	QPSK	21.75	16.45
LTE Band5	5	20525	12	#Mid	QPSK	21.75	16.45
LTE Band5	5	20525	12	#Max	QPSK	21.89	16.59
LTE Band5	5	20525	25	#0	QPSK	21.72	16.42
LTE Band5	5	20625	1	#0	QPSK	22.52	17.22

LTE Band5	5	20625	1	#Mid	QPSK	22.39	17.09
LTE Band5	5	20625	1	#Max	QPSK	22.30	17.00
LTE Band5	5	20625	12	#0	QPSK	21.34	16.04
LTE Band5	5	20625	12	#Mid	QPSK	21.38	16.08
LTE Band5	5	20625	12	#Max	QPSK	21.25	15.95
LTE Band5	5	20625	25	#0	QPSK	21.35	16.05
LTE Band5	10	20450	1	#0	QPSK	23.10	17.80
LTE Band5	10	20450	1	#Mid	QPSK	22.77	17.47
LTE Band5	10	20450	1	#Max	QPSK	22.76	17.46
LTE Band5	10	20450	25	#0	QPSK	21.67	16.37
LTE Band5	10	20450	25	#Mid	QPSK	21.69	16.39
LTE Band5	10	20450	25	#Max	QPSK	21.60	16.30
LTE Band5	10	20450	50	#0	QPSK	21.67	16.37
LTE Band5	10	20525	1	#0	QPSK	22.88	17.58
LTE Band5	10	20525	1	#Mid	QPSK	22.71	17.41
LTE Band5	10	20525	1	#Max	QPSK	22.90	17.60
LTE Band5	10	20525	25	#0	QPSK	21.61	16.31
LTE Band5	10	20525	25	#Mid	QPSK	21.60	16.30
LTE Band5	10	20525	25	#Max	QPSK	21.74	16.44
LTE Band5	10	20525	50	#0	QPSK	21.53	16.23
LTE Band5	10	20600	1	#0	QPSK	23.08	17.78
LTE Band5	10	20600	1	#Mid	QPSK	22.40	17.10
LTE Band5	10	20600	1	#Max	QPSK	22.36	17.06
LTE Band5	10	20600	25	#0	QPSK	21.62	16.32
LTE Band5	10	20600	25	#Mid	QPSK	21.65	16.35
LTE Band5	10	20600	25	#Max	QPSK	21.19	15.89
LTE Band5	10	20600	50	#0	QPSK	21.29	15.99
LTE Band5	1.4	20407	1	#0	16QAM	21.99	16.69
LTE Band5	1.4	20407	1	#Mid	16QAM	22.13	16.83
LTE Band5	1.4	20407	1	#Max	16QAM	22.09	16.79
LTE Band5	1.4	20407	3	#0	16QAM	22.15	16.85
LTE Band5	1.4	20407	3	#Mid	16QAM	22.14	16.84
LTE Band5	1.4	20407	3	#Max	16QAM	22.20	16.90
LTE Band5	1.4	20407	6	#0	16QAM	21.10	15.80
LTE Band5	1.4	20525	1	#0	16QAM	22.02	16.72
LTE Band5	1.4	20525	1	#Mid	16QAM	22.08	16.78
LTE Band5	1.4	20525	1	#Max	16QAM	22.05	16.75
LTE Band5	1.4	20525	3	#0	16QAM	21.88	16.58
LTE Band5	1.4	20525	3	#Mid	16QAM	21.88	16.58
LTE Band5	1.4	20525	3	#Max	16QAM	21.90	16.60
LTE Band5	1.4	20525	6	#0	16QAM	20.83	15.53
LTE Band5	1.4	20643	1	#0	16QAM	21.28	15.98
LTE Band5	1.4	20643	1	#Mid	16QAM	21.25	15.95

LTE Band5	1.4	20643	1	#Max	16QAM	21.21	15.91
LTE Band5	1.4	20643	3	#0	16QAM	21.32	16.02
LTE Band5	1.4	20643	3	#Mid	16QAM	21.33	16.03
LTE Band5	1.4	20643	3	#Max	16QAM	21.23	15.93
LTE Band5	1.4	20643	6	#0	16QAM	20.44	15.14
LTE Band5	3	20415	1	#0	16QAM	22.23	16.93
LTE Band5	3	20415	1	#Mid	16QAM	22.29	16.99
LTE Band5	3	20415	1	#Max	16QAM	22.14	16.84
LTE Band5	3	20415	8	#0	16QAM	21.07	15.77
LTE Band5	3	20415	8	#Mid	16QAM	21.08	15.78
LTE Band5	3	20415	8	#Max	16QAM	21.07	15.77
LTE Band5	3	20415	15	#0	16QAM	21.06	15.76
LTE Band5	3	20525	1	#0	16QAM	21.88	16.58
LTE Band5	3	20525	1	#Mid	16QAM	22.02	16.72
LTE Band5	3	20525	1	#Max	16QAM	22.02	16.72
LTE Band5	3	20525	8	#0	16QAM	20.87	15.57
LTE Band5	3	20525	8	#Mid	16QAM	20.88	15.58
LTE Band5	3	20525	8	#Max	16QAM	20.96	15.66
LTE Band5	3	20525	15	#0	16QAM	20.76	15.46
LTE Band5	3	20635	1	#0	16QAM	21.41	16.11
LTE Band5	3	20635	1	#Mid	16QAM	21.29	15.99
LTE Band5	3	20635	1	#Max	16QAM	21.15	15.85
LTE Band5	3	20635	8	#0	16QAM	20.54	15.24
LTE Band5	3	20635	8	#Mid	16QAM	20.57	15.27
LTE Band5	3	20635	8	#Max	16QAM	20.45	15.15
LTE Band5	3	20635	15	#0	16QAM	20.45	15.15
LTE Band5	5	20425	1	#0	16QAM	22.38	17.08
LTE Band5	5	20425	1	#Mid	16QAM	22.34	17.04
LTE Band5	5	20425	1	#Max	16QAM	22.23	16.93
LTE Band5	5	20425	12	#0	16QAM	21.03	15.73
LTE Band5	5	20425	12	#Mid	16QAM	21.04	15.74
LTE Band5	5	20425	12	#Max	16QAM	20.96	15.66
LTE Band5	5	20425	25	#0	16QAM	20.98	15.68
LTE Band5	5	20525	1	#0	16QAM	22.15	16.85
LTE Band5	5	20525	1	#Mid	16QAM	22.11	16.81
LTE Band5	5	20525	1	#Max	16QAM	22.30	17.00
LTE Band5	5	20525	12	#0	16QAM	20.80	15.50
LTE Band5	5	20525	12	#Mid	16QAM	20.80	15.50
LTE Band5	5	20525	12	#Max	16QAM	20.97	15.67
LTE Band5	5	20525	25	#0	16QAM	20.79	15.49
LTE Band5	5	20625	1	#0	16QAM	21.89	16.59
LTE Band5	5	20625	1	#Mid	16QAM	21.72	16.42
LTE Band5	5	20625	1	#Max	16QAM	21.69	16.39

LTE Band5	5	20625	12	#0	16QAM	20.63	15.33
LTE Band5	5	20625	12	#Mid	16QAM	20.68	15.38
LTE Band5	5	20625	12	#Max	16QAM	20.51	15.21
LTE Band5	5	20625	25	#0	16QAM	20.52	15.22
LTE Band5	10	20450	1	#0	16QAM	22.26	16.96
LTE Band5	10	20450	1	#Mid	16QAM	22.09	16.79
LTE Band5	10	20450	1	#Max	16QAM	22.07	16.77
LTE Band5	10	20450	25	#0	16QAM	20.83	15.53
LTE Band5	10	20450	25	#Mid	16QAM	20.85	15.55
LTE Band5	10	20450	25	#Max	16QAM	20.79	15.49
LTE Band5	10	20525	1	#0	16QAM	22.07	16.77
LTE Band5	10	20525	1	#Mid	16QAM	22.03	16.73
LTE Band5	10	20525	1	#Max	16QAM	22.08	16.78
LTE Band5	10	20525	25	#0	16QAM	20.75	15.45
LTE Band5	10	20525	25	#Mid	16QAM	20.76	15.46
LTE Band5	10	20525	25	#Max	16QAM	20.90	15.60
LTE Band5	10	20600	1	#0	16QAM	21.91	16.61
LTE Band5	10	20600	1	#Mid	16QAM	21.42	16.12
LTE Band5	10	20600	1	#Max	16QAM	21.32	16.02
LTE Band5	10	20600	25	#0	16QAM	20.75	15.45
LTE Band5	10	20600	25	#Mid	16QAM	20.79	15.49
LTE Band5	10	20600	25	#Max	16QAM	20.38	15.08

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
LTE Band7	5	20775	1	#0	QPSK	24.73	27.31
LTE Band7	5	20775	1	#Mid	QPSK	24.28	26.86
LTE Band7	5	20775	1	#Max	QPSK	23.74	26.32
LTE Band7	5	20775	12	#0	QPSK	23.46	26.04
LTE Band7	5	20775	12	#Mid	QPSK	23.46	26.04
LTE Band7	5	20775	12	#Max	QPSK	22.94	25.52
LTE Band7	5	20775	25	#0	QPSK	23.20	25.78
LTE Band7	5	21100	1	#0	QPSK	23.64	26.22
LTE Band7	5	21100	1	#Mid	QPSK	23.82	26.40
LTE Band7	5	21100	1	#Max	QPSK	23.72	26.30
LTE Band7	5	21100	12	#0	QPSK	22.62	25.20
LTE Band7	5	21100	12	#Mid	QPSK	22.58	25.16
LTE Band7	5	21100	12	#Max	QPSK	22.74	25.32
LTE Band7	5	21100	25	#0	QPSK	22.70	25.28
LTE Band7	5	21425	1	#0	QPSK	22.53	25.11
LTE Band7	5	21425	1	#Mid	QPSK	22.85	25.43
LTE Band7	5	21425	1	#Max	QPSK	23.36	25.94
LTE Band7	5	21425	12	#0	QPSK	21.33	23.91

LTE Band7	5	21425	12	#Mid	QPSK	21.32	23.90
LTE Band7	5	21425	12	#Max	QPSK	21.78	24.36
LTE Band7	5	21425	25	#0	QPSK	21.53	24.11
LTE Band7	10	20800	1	#0	QPSK	24.84	27.42
LTE Band7	10	20800	1	#Mid	QPSK	23.61	26.19
LTE Band7	10	20800	1	#Max	QPSK	22.04	24.62
LTE Band7	10	20800	25	#0	QPSK	23.08	25.66
LTE Band7	10	20800	25	#Mid	QPSK	23.05	25.63
LTE Band7	10	20800	25	#Max	QPSK	21.72	24.30
LTE Band7	10	20800	50	#0	QPSK	22.43	25.01
LTE Band7	10	21100	1	#0	QPSK	23.47	26.05
LTE Band7	10	21100	1	#Mid	QPSK	23.74	26.32
LTE Band7	10	21100	1	#Max	QPSK	23.43	26.01
LTE Band7	10	21100	25	#0	QPSK	22.35	24.93
LTE Band7	10	21100	25	#Mid	QPSK	22.35	24.93
LTE Band7	10	21100	25	#Max	QPSK	22.53	25.11
LTE Band7	10	21100	50	#0	QPSK	22.49	25.07
LTE Band7	10	21400	1	#0	QPSK	22.25	24.83
LTE Band7	10	21400	1	#Mid	QPSK	22.37	24.95
LTE Band7	10	21400	1	#Max	QPSK	23.28	25.86
LTE Band7	10	21400	25	#0	QPSK	20.84	23.42
LTE Band7	10	21400	25	#Mid	QPSK	20.87	23.45
LTE Band7	10	21400	25	#Max	QPSK	21.34	23.92
LTE Band7	10	21400	50	#0	QPSK	21.12	23.70
LTE Band7	15	20825	1	#0	QPSK	24.71	27.29
LTE Band7	15	20825	1	#Mid	QPSK	22.57	25.15
LTE Band7	15	20825	1	#Max	QPSK	21.68	24.26
LTE Band7	15	20825	36	#0	QPSK	22.74	25.32
LTE Band7	15	20825	36	#Mid	QPSK	22.74	25.32
LTE Band7	15	20825	36	#Max	QPSK	20.75	23.33
LTE Band7	15	20825	75	#0	QPSK	21.63	24.21
LTE Band7	15	21100	1	#0	QPSK	23.16	25.74
LTE Band7	15	21100	1	#Mid	QPSK	23.82	26.40
LTE Band7	15	21100	1	#Max	QPSK	23.20	25.78
LTE Band7	15	21100	36	#0	QPSK	22.42	25.00
LTE Band7	15	21100	36	#Mid	QPSK	22.36	24.94
LTE Band7	15	21100	36	#Max	QPSK	22.56	25.14
LTE Band7	15	21100	75	#0	QPSK	22.59	25.17
LTE Band7	15	21375	1	#0	QPSK	21.57	24.15
LTE Band7	15	21375	1	#Mid	QPSK	22.25	24.83
LTE Band7	15	21375	1	#Max	QPSK	23.29	25.87
LTE Band7	15	21375	36	#0	QPSK	20.81	23.39
LTE Band7	15	21375	36	#Mid	QPSK	20.87	23.45

LTE Band7	15	21375	36	#Max	QPSK	21.41	23.99
LTE Band7	15	21375	75	#0	QPSK	21.18	23.76
LTE Band7	20	20850	1	#0	QPSK	24.79	27.37
LTE Band7	20	20850	1	#Mid	QPSK	21.79	24.37
LTE Band7	20	20850	1	#Max	QPSK	22.20	24.78
LTE Band7	20	20850	50	#0	QPSK	22.28	24.86
LTE Band7	20	20850	50	#Mid	QPSK	22.28	24.86
LTE Band7	20	20850	50	#Max	QPSK	20.70	23.28
LTE Band7	20	20850	100	#0	QPSK	20.84	23.42
LTE Band7	20	21100	1	#0	QPSK	22.73	25.31
LTE Band7	20	21100	1	#Mid	QPSK	23.85	26.43
LTE Band7	20	21100	1	#Max	QPSK	22.89	25.47
LTE Band7	20	21100	50	#0	QPSK	22.31	24.89
LTE Band7	20	21100	50	#Mid	QPSK	22.24	24.82
LTE Band7	20	21100	50	#Max	QPSK	22.29	24.87
LTE Band7	20	21100	100	#0	QPSK	22.42	25.00
LTE Band7	20	21350	1	#0	QPSK	21.46	24.04
LTE Band7	20	21350	1	#Mid	QPSK	22.22	24.80
LTE Band7	20	21350	1	#Max	QPSK	23.11	25.69
LTE Band7	20	21350	50	#0	QPSK	20.44	23.02
LTE Band7	20	21350	50	#Mid	QPSK	20.52	23.10
LTE Band7	20	21350	50	#Max	QPSK	21.26	23.84
LTE Band7	20	21350	100	#0	QPSK	21.09	23.67
LTE Band7	5	20775	1	#0	16QAM	24.06	26.64
LTE Band7	5	20775	1	#Mid	16QAM	23.71	26.29
LTE Band7	5	20775	1	#Max	16QAM	23.31	25.89
LTE Band7	5	20775	12	#0	16QAM	22.52	25.10
LTE Band7	5	20775	12	#Mid	16QAM	22.52	25.10
LTE Band7	5	20775	12	#Max	16QAM	22.28	24.86
LTE Band7	5	20775	25	#0	16QAM	22.40	24.98
LTE Band7	5	21100	1	#0	16QAM	22.65	25.23
LTE Band7	5	21100	1	#Mid	16QAM	22.92	25.50
LTE Band7	5	21100	1	#Max	16QAM	22.99	25.57
LTE Band7	5	21100	12	#0	16QAM	21.56	24.14
LTE Band7	5	21100	12	#Mid	16QAM	21.53	24.11
LTE Band7	5	21100	12	#Max	16QAM	21.71	24.29
LTE Band7	5	21100	25	#0	16QAM	21.57	24.15
LTE Band7	5	21425	1	#0	16QAM	21.78	24.36
LTE Band7	5	21425	1	#Mid	16QAM	22.03	24.61
LTE Band7	5	21425	1	#Max	16QAM	22.40	24.98
LTE Band7	5	21425	12	#0	16QAM	20.60	23.18
LTE Band7	5	21425	12	#Mid	16QAM	20.61	23.19
LTE Band7	5	21425	12	#Max	16QAM	20.96	23.54

LTE Band7	5	21425	25	#0	16QAM	20.70	23.28
LTE Band7	10	20800	1	#0	16QAM	24.06	26.64
LTE Band7	10	20800	1	#Mid	16QAM	22.95	25.53
LTE Band7	10	20800	1	#Max	16QAM	21.47	24.05
LTE Band7	10	20800	25	#0	16QAM	22.22	24.80
LTE Band7	10	20800	25	#Mid	16QAM	22.22	24.80
LTE Band7	10	20800	25	#Max	16QAM	21.10	23.68
LTE Band7	10	21100	1	#0	16QAM	22.52	25.10
LTE Band7	10	21100	1	#Mid	16QAM	22.90	25.48
LTE Band7	10	21100	1	#Max	16QAM	22.79	25.37
LTE Band7	10	21100	25	#0	16QAM	21.50	24.08
LTE Band7	10	21100	25	#Mid	16QAM	21.46	24.04
LTE Band7	10	21100	25	#Max	16QAM	21.70	24.28
LTE Band7	10	21400	1	#0	16QAM	21.12	23.70
LTE Band7	10	21400	1	#Mid	16QAM	21.32	23.90
LTE Band7	10	21400	1	#Max	16QAM	22.00	24.58
LTE Band7	10	21400	25	#0	16QAM	20.08	22.66
LTE Band7	10	21400	25	#Mid	16QAM	20.11	22.69
LTE Band7	10	21400	25	#Max	16QAM	20.56	23.14
LTE Band7	15	20825	1	#0	16QAM	24.01	26.59
LTE Band7	15	20825	1	#Mid	16QAM	22.19	24.77
LTE Band7	15	20825	1	#Max	16QAM	21.18	23.76
LTE Band7	15	21100	1	#0	16QAM	22.13	24.71
LTE Band7	15	21100	1	#Mid	16QAM	23.00	25.58
LTE Band7	15	21100	1	#Max	16QAM	22.78	25.36
LTE Band7	15	21375	1	#0	16QAM	20.85	23.43
LTE Band7	15	21375	1	#Mid	16QAM	21.39	23.97
LTE Band7	15	21375	1	#Max	16QAM	22.17	24.75
LTE Band7	20	20850	1	#0	16QAM	23.94	26.52
LTE Band7	20	20850	1	#Mid	16QAM	21.24	23.82
LTE Band7	20	20850	1	#Max	16QAM	21.44	24.02
LTE Band7	20	21100	1	#0	16QAM	21.46	24.04
LTE Band7	20	21100	1	#Mid	16QAM	22.70	25.28
LTE Band7	20	21100	1	#Max	16QAM	22.07	24.65
LTE Band7	20	21350	1	#0	16QAM	20.62	23.20
LTE Band7	20	21350	1	#Mid	16QAM	21.18	23.76
LTE Band7	20	21350	1	#Max	16QAM	21.81	24.39

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
LTE Band66	1.4	131979	1	#0	QPSK	23.39	25.66
LTE Band66	1.4	131979	1	#Mid	QPSK	23.46	25.73
LTE Band66	1.4	131979	1	#Max	QPSK	23.40	25.67

LTE Band66	1.4	131979	3	#0	QPSK	23.37	25.64
LTE Band66	1.4	131979	3	#Mid	QPSK	23.37	25.64
LTE Band66	1.4	131979	3	#Max	QPSK	23.34	25.61
LTE Band66	1.4	131979	6	#0	QPSK	22.16	24.43
LTE Band66	1.4	132322	1	#0	QPSK	23.36	25.63
LTE Band66	1.4	132322	1	#Mid	QPSK	23.46	25.73
LTE Band66	1.4	132322	1	#Max	QPSK	23.37	25.64
LTE Band66	1.4	132322	3	#0	QPSK	23.34	25.61
LTE Band66	1.4	132322	3	#Mid	QPSK	23.34	25.61
LTE Band66	1.4	132322	3	#Max	QPSK	23.38	25.65
LTE Band66	1.4	132322	6	#0	QPSK	22.36	24.63
LTE Band66	1.4	132665	1	#0	QPSK	23.70	25.97
LTE Band66	1.4	132665	1	#Mid	QPSK	23.69	25.96
LTE Band66	1.4	132665	1	#Max	QPSK	23.59	25.86
LTE Band66	1.4	132665	3	#0	QPSK	23.53	25.80
LTE Band66	1.4	132665	3	#Mid	QPSK	23.52	25.79
LTE Band66	1.4	132665	3	#Max	QPSK	23.54	25.81
LTE Band66	1.4	132665	6	#0	QPSK	22.10	24.37
LTE Band66	3	131987	1	#0	QPSK	23.42	25.69
LTE Band66	3	131987	1	#Mid	QPSK	23.41	25.68
LTE Band66	3	131987	1	#Max	QPSK	23.26	25.53
LTE Band66	3	131987	8	#0	QPSK	22.21	24.48
LTE Band66	3	131987	8	#Mid	QPSK	22.20	24.47
LTE Band66	3	131987	8	#Max	QPSK	22.16	24.43
LTE Band66	3	131987	15	#0	QPSK	22.16	24.43
LTE Band66	3	132322	1	#0	QPSK	23.41	25.68
LTE Band66	3	132322	1	#Mid	QPSK	23.43	25.70
LTE Band66	3	132322	1	#Max	QPSK	23.25	25.52
LTE Band66	3	132322	8	#0	QPSK	22.43	24.70
LTE Band66	3	132322	8	#Mid	QPSK	22.44	24.71
LTE Band66	3	132322	8	#Max	QPSK	22.39	24.66
LTE Band66	3	132322	15	#0	QPSK	22.42	24.69
LTE Band66	3	132657	1	#0	QPSK	23.58	25.85
LTE Band66	3	132657	1	#Mid	QPSK	23.64	25.91
LTE Band66	3	132657	1	#Max	QPSK	23.55	25.82
LTE Band66	3	132657	8	#0	QPSK	22.10	24.37
LTE Band66	3	132657	8	#Mid	QPSK	22.13	24.40
LTE Band66	3	132657	8	#Max	QPSK	22.14	24.41
LTE Band66	3	132657	15	#0	QPSK	22.13	24.40
LTE Band66	5	131997	1	#0	QPSK	23.53	25.80
LTE Band66	5	131997	1	#Mid	QPSK	23.38	25.65
LTE Band66	5	131997	1	#Max	QPSK	23.43	25.70
LTE Band66	5	131997	12	#0	QPSK	22.15	24.42

LTE Band66	5	131997	12	#Mid	QPSK	22.16	24.43
LTE Band66	5	131997	12	#Max	QPSK	22.18	24.45
LTE Band66	5	131997	25	#0	QPSK	22.18	24.45
LTE Band66	5	132322	1	#0	QPSK	23.54	25.81
LTE Band66	5	132322	1	#Mid	QPSK	23.52	25.79
LTE Band66	5	132322	1	#Max	QPSK	23.41	25.68
LTE Band66	5	132322	12	#0	QPSK	22.40	24.67
LTE Band66	5	132322	12	#Mid	QPSK	22.42	24.69
LTE Band66	5	132322	12	#Max	QPSK	22.27	24.54
LTE Band66	5	132322	25	#0	QPSK	22.31	24.58
LTE Band66	5	132647	1	#0	QPSK	23.78	26.05
LTE Band66	5	132647	1	#Mid	QPSK	23.55	25.82
LTE Band66	5	132647	1	#Max	QPSK	23.82	26.09
LTE Band66	5	132647	12	#0	QPSK	22.00	24.27
LTE Band66	5	132647	12	#Mid	QPSK	22.04	24.31
LTE Band66	5	132647	12	#Max	QPSK	22.14	24.41
LTE Band66	5	132647	25	#0	QPSK	22.06	24.33
LTE Band66	10	132022	1	#0	QPSK	23.50	25.77
LTE Band66	10	132022	1	#Mid	QPSK	23.40	25.67
LTE Band66	10	132022	1	#Max	QPSK	23.66	25.93
LTE Band66	10	132022	25	#0	QPSK	21.93	24.20
LTE Band66	10	132022	25	#Mid	QPSK	21.97	24.24
LTE Band66	10	132022	25	#Max	QPSK	22.08	24.35
LTE Band66	10	132022	50	#0	QPSK	22.00	24.27
LTE Band66	10	132322	1	#0	QPSK	23.53	25.80
LTE Band66	10	132322	1	#Mid	QPSK	23.42	25.69
LTE Band66	10	132322	1	#Max	QPSK	23.20	25.47
LTE Band66	10	132322	25	#0	QPSK	22.17	24.44
LTE Band66	10	132322	25	#Mid	QPSK	22.21	24.48
LTE Band66	10	132322	25	#Max	QPSK	22.03	24.30
LTE Band66	10	132322	50	#0	QPSK	22.14	24.41
LTE Band66	10	132622	1	#0	QPSK	23.62	25.89
LTE Band66	10	132622	1	#Mid	QPSK	23.39	25.66
LTE Band66	10	132622	1	#Max	QPSK	24.28	26.55
LTE Band66	10	132622	25	#0	QPSK	21.67	23.94
LTE Band66	10	132622	25	#Mid	QPSK	21.71	23.98
LTE Band66	10	132622	25	#Max	QPSK	21.91	24.18
LTE Band66	10	132622	50	#0	QPSK	21.80	24.07
LTE Band66	15	132047	1	#0	QPSK	23.41	25.68
LTE Band66	15	132047	1	#Mid	QPSK	23.44	25.71
LTE Band66	15	132047	1	#Max	QPSK	23.71	25.98
LTE Band66	15	132047	36	#0	QPSK	22.15	24.42
LTE Band66	15	132047	36	#Mid	QPSK	22.15	24.42

LTE Band66	15	132047	36	#Max	QPSK	22.55	24.82
LTE Band66	15	132047	75	#0	QPSK	22.37	24.64
LTE Band66	15	132322	1	#0	QPSK	23.67	25.94
LTE Band66	15	132322	1	#Mid	QPSK	23.42	25.69
LTE Band66	15	132322	1	#Max	QPSK	23.13	25.40
LTE Band66	15	132322	36	#0	QPSK	22.38	24.65
LTE Band66	15	132322	36	#Mid	QPSK	22.41	24.68
LTE Band66	15	132322	36	#Max	QPSK	22.11	24.38
LTE Band66	15	132322	75	#0	QPSK	22.23	24.50
LTE Band66	15	132597	1	#0	QPSK	22.83	25.10
LTE Band66	15	132597	1	#Mid	QPSK	23.28	25.55
LTE Band66	15	132597	1	#Max	QPSK	23.87	26.14
LTE Band66	15	132597	36	#0	QPSK	21.65	23.92
LTE Band66	15	132597	36	#Mid	QPSK	21.69	23.96
LTE Band66	15	132597	36	#Max	QPSK	22.03	24.30
LTE Band66	15	132597	75	#0	QPSK	21.87	24.14
LTE Band66	20	132072	1	#0	QPSK	23.38	25.65
LTE Band66	20	132072	1	#Mid	QPSK	23.76	26.03
LTE Band66	20	132072	1	#Max	QPSK	23.55	25.82
LTE Band66	20	132072	50	#0	QPSK	22.15	24.42
LTE Band66	20	132072	50	#Mid	QPSK	22.13	24.40
LTE Band66	20	132072	50	#Max	QPSK	22.39	24.66
LTE Band66	20	132072	100	#0	QPSK	22.49	24.76
LTE Band66	20	132322	1	#0	QPSK	23.72	25.99
LTE Band66	20	132322	1	#Mid	QPSK	23.51	25.78
LTE Band66	20	132322	1	#Max	QPSK	22.99	25.26
LTE Band66	20	132322	50	#0	QPSK	22.27	24.54
LTE Band66	20	132322	50	#Mid	QPSK	22.31	24.58
LTE Band66	20	132322	50	#Max	QPSK	21.95	24.22
LTE Band66	20	132322	100	#0	QPSK	22.11	24.38
LTE Band66	20	132572	1	#0	QPSK	22.76	25.03
LTE Band66	20	132572	1	#Mid	QPSK	23.01	25.28
LTE Band66	20	132572	1	#Max	QPSK	23.94	26.21
LTE Band66	20	132572	50	#0	QPSK	21.44	23.71
LTE Band66	20	132572	50	#Mid	QPSK	21.49	23.76
LTE Band66	20	132572	50	#Max	QPSK	21.85	24.12
LTE Band66	20	132572	100	#0	QPSK	21.78	24.05
LTE Band66	1.4	131979	1	#0	16QAM	22.37	24.64
LTE Band66	1.4	131979	1	#Mid	16QAM	22.48	24.75
LTE Band66	1.4	131979	1	#Max	16QAM	22.40	24.67
LTE Band66	1.4	131979	3	#0	16QAM	22.53	24.80
LTE Band66	1.4	131979	3	#Mid	16QAM	22.53	24.80
LTE Band66	1.4	131979	3	#Max	16QAM	22.53	24.80

LTE Band66	1.4	131979	6	#0	16QAM	21.40	23.67
LTE Band66	1.4	132322	1	#0	16QAM	22.73	25.00
LTE Band66	1.4	132322	1	#Mid	16QAM	22.76	25.03
LTE Band66	1.4	132322	1	#Max	16QAM	22.79	25.06
LTE Band66	1.4	132322	3	#0	16QAM	22.59	24.86
LTE Band66	1.4	132322	3	#Mid	16QAM	22.59	24.86
LTE Band66	1.4	132322	3	#Max	16QAM	22.66	24.93
LTE Band66	1.4	132322	6	#0	16QAM	21.53	23.80
LTE Band66	1.4	132665	1	#0	16QAM	22.43	24.70
LTE Band66	1.4	132665	1	#Mid	16QAM	22.32	24.59
LTE Band66	1.4	132665	1	#Max	16QAM	22.29	24.56
LTE Band66	1.4	132665	3	#0	16QAM	22.36	24.63
LTE Band66	1.4	132665	3	#Mid	16QAM	22.35	24.62
LTE Band66	1.4	132665	3	#Max	16QAM	22.36	24.63
LTE Band66	1.4	132665	6	#0	16QAM	21.35	23.62
LTE Band66	3	131987	1	#0	16QAM	22.71	24.98
LTE Band66	3	131987	1	#Mid	16QAM	22.67	24.94
LTE Band66	3	131987	1	#Max	16QAM	22.51	24.78
LTE Band66	3	131987	8	#0	16QAM	21.38	23.65
LTE Band66	3	131987	8	#Mid	16QAM	21.37	23.64
LTE Band66	3	131987	8	#Max	16QAM	21.33	23.60
LTE Band66	3	131987	15	#0	16QAM	21.29	23.56
LTE Band66	3	132322	1	#0	16QAM	22.73	25.00
LTE Band66	3	132322	1	#Mid	16QAM	22.75	25.02
LTE Band66	3	132322	1	#Max	16QAM	22.60	24.87
LTE Band66	3	132322	8	#0	16QAM	21.66	23.93
LTE Band66	3	132322	8	#Mid	16QAM	21.67	23.94
LTE Band66	3	132322	8	#Max	16QAM	21.63	23.90
LTE Band66	3	132322	15	#0	16QAM	21.50	23.77
LTE Band66	3	132657	1	#0	16QAM	22.33	24.60
LTE Band66	3	132657	1	#Mid	16QAM	22.38	24.65
LTE Band66	3	132657	1	#Max	16QAM	22.31	24.58
LTE Band66	3	132657	8	#0	16QAM	21.32	23.59
LTE Band66	3	132657	8	#Mid	16QAM	21.33	23.60
LTE Band66	3	132657	8	#Max	16QAM	21.36	23.63
LTE Band66	3	132657	15	#0	16QAM	21.35	23.62
LTE Band66	5	131997	1	#0	16QAM	22.81	25.08
LTE Band66	5	131997	1	#Mid	16QAM	22.69	24.96
LTE Band66	5	131997	1	#Max	16QAM	22.76	25.03
LTE Band66	5	131997	12	#0	16QAM	21.31	23.58
LTE Band66	5	131997	12	#Mid	16QAM	21.32	23.59
LTE Band66	5	131997	12	#Max	16QAM	21.31	23.58
LTE Band66	5	131997	25	#0	16QAM	21.35	23.62

LTE Band66	5	132322	1	#0	16QAM	22.86	25.13
LTE Band66	5	132322	1	#Mid	16QAM	22.88	25.15
LTE Band66	5	132322	1	#Max	16QAM	22.72	24.99
LTE Band66	5	132322	12	#0	16QAM	21.54	23.81
LTE Band66	5	132322	12	#Mid	16QAM	21.56	23.83
LTE Band66	5	132322	12	#Max	16QAM	21.53	23.80
LTE Band66	5	132322	25	#0	16QAM	21.51	23.78
LTE Band66	5	132647	1	#0	16QAM	22.66	24.93
LTE Band66	5	132647	1	#Mid	16QAM	22.62	24.89
LTE Band66	5	132647	1	#Max	16QAM	22.70	24.97
LTE Band66	5	132647	12	#0	16QAM	21.25	23.52
LTE Band66	5	132647	12	#Mid	16QAM	21.27	23.54
LTE Band66	5	132647	12	#Max	16QAM	21.36	23.63
LTE Band66	5	132647	25	#0	16QAM	21.26	23.53
LTE Band66	10	132022	1	#0	16QAM	22.73	25.00
LTE Band66	10	132022	1	#Mid	16QAM	22.57	24.84
LTE Band66	10	132022	1	#Max	16QAM	22.96	25.23
LTE Band66	10	132022	25	#0	16QAM	21.09	23.36
LTE Band66	10	132022	25	#Mid	16QAM	21.10	23.37
LTE Band66	10	132022	25	#Max	16QAM	21.31	23.58
LTE Band66	10	132322	1	#0	16QAM	22.72	24.99
LTE Band66	10	132322	1	#Mid	16QAM	22.69	24.96
LTE Band66	10	132322	1	#Max	16QAM	22.35	24.62
LTE Band66	10	132322	25	#0	16QAM	21.38	23.65
LTE Band66	10	132322	25	#Mid	16QAM	21.40	23.67
LTE Band66	10	132322	25	#Max	16QAM	21.23	23.50
LTE Band66	10	132622	1	#0	16QAM	21.94	24.21
LTE Band66	10	132622	1	#Mid	16QAM	22.07	24.34
LTE Band66	10	132622	1	#Max	16QAM	22.41	24.68
LTE Band66	10	132622	25	#0	16QAM	20.75	23.02
LTE Band66	10	132622	25	#Mid	16QAM	20.77	23.04
LTE Band66	10	132622	25	#Max	16QAM	21.04	23.31
LTE Band66	15	132047	1	#0	16QAM	22.72	24.99
LTE Band66	15	132047	1	#Mid	16QAM	22.78	25.05
LTE Band66	15	132047	1	#Max	16QAM	22.95	25.22
LTE Band66	15	132322	1	#0	16QAM	22.94	25.21
LTE Band66	15	132322	1	#Mid	16QAM	22.74	25.01
LTE Band66	15	132322	1	#Max	16QAM	22.27	24.54
LTE Band66	15	132597	1	#0	16QAM	21.98	24.25
LTE Band66	15	132597	1	#Mid	16QAM	22.18	24.45
LTE Band66	15	132597	1	#Max	16QAM	22.46	24.73
LTE Band66	20	132072	1	#0	16QAM	22.57	24.84
LTE Band66	20	132072	1	#Mid	16QAM	22.89	25.16

LTE Band66	20	132072	1	#Max	16QAM	22.66	24.93
LTE Band66	20	132322	1	#0	16QAM	22.51	24.78
LTE Band66	20	132322	1	#Mid	16QAM	22.49	24.76
LTE Band66	20	132322	1	#Max	16QAM	21.79	24.06
LTE Band66	20	132572	1	#0	16QAM	21.67	23.94
LTE Band66	20	132572	1	#Mid	16QAM	21.81	24.08
LTE Band66	20	132572	1	#Max	16QAM	22.12	24.39

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.

GSM 850 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.20	-46.89	1.70	8.70	Horizontal	-42.04	-13.00	29.04	34
3	2509.75	-57.02	2.30	12.00	Horizontal	-49.47	-13.00	36.47	13
4	3346.40	-67.14	2.70	12.70	Horizontal	-59.29	-13.00	46.29	65
5	4183.00	-62.57	3.00	12.50	Horizontal	-55.22	-13.00	42.22	76
6	5019.60	-54.89	3.40	12.50	Horizontal	-47.94	-13.00	34.94	7
7	5856.20	-61.86	3.40	12.80	Horizontal	-54.61	-13.00	41.61	67
8	6692.80	-56.62	4.10	11.50	Horizontal	-51.37	-13.00	38.37	0
9	7529.40	-52.21	4.20	12.20	Horizontal	-46.36	-13.00	33.36	56
10	8366.00	-53.88	4.30	12.50	Horizontal	-47.83	-13.00	34.83	46

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.

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-61.80	2.60	12.50	Horizontal	-51.90	-13.00	38.90	312
3	5640.00	-61.60	3.30	12.50	Horizontal	-52.40	-13.00	39.40	13
4	7520.00	-57.31	4.20	12.20	Horizontal	-49.31	-13.00	36.31	34
5	9400.00	-56.85	4.30	11.10	Horizontal	-50.05	-13.00	37.05	87
6	11280.00	-53.36	5.90	11.90	Horizontal	-47.36	-13.00	34.36	57
7	13160.00	-54.07	5.70	14.00	Horizontal	-45.77	-13.00	32.77	213
8	15040.00	-53.33	5.80	13.10	Horizontal	-46.03	-13.00	33.03	57
9	16920.00	-53.67	6.10	14.60	Horizontal	-45.17	-13.00	32.17	47
10	18800.00	--	--	--	--	--	--	--	--

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 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.00	-58.21	2.60	12.50	Vertical	-48.31	-13.00	35.31	87
3	5638.88	-52.21	3.30	12.50	Vertical	-43.01	-13.00	30.01	7
4	7520.00	-47.05	4.20	12.20	Vertical	-39.05	-13.00	26.05	67
5	9400.00	-45.95	4.30	11.10	Vertical	-39.15	-13.00	26.15	0
6	11280.00	-45.95	5.90	11.90	Vertical	-39.95	-13.00	26.95	87
7	13160.00	-52.18	5.70	14.00	Vertical	-43.88	-13.00	30.88	68
8	15040.00	-50.97	5.80	13.10	Vertical	-43.67	-13.00	30.67	68
9	16920.00	-52.88	6.10	14.60	Vertical	-44.38	-13.00	31.38	7
10	18800.00	--	--	--	--	--	--	--	--

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 Vertical position.

LTE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.63	-63.31	2.60	12.50	Vertical	-53.41	-13.00	40.41	7
3	5633.63	-57.65	3.30	12.50	Vertical	-48.45	-13.00	35.45	68
4	7510.00	-45.66	4.20	12.20	Vertical	-37.66	-13.00	24.66	78
5	9387.50	-45.80	4.30	11.10	Vertical	-39.00	-13.00	26.00	52
6	11265.00	-43.89	5.90	11.90	Vertical	-37.89	-13.00	24.89	87
7	13142.00	-50.85	5.70	14.00	Vertical	-42.55	-13.00	29.55	78
8	15020.00	-51.62	5.80	13.10	Vertical	-44.32	-13.00	31.32	137
9	16897.50	-52.11	6.10	14.60	Vertical	-43.61	-13.00	30.61	68
10	18800.00	--	--	--	--	--	--	--	--

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 Vertical position.

LTE Band 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.13	-63.64	2.60	12.50	Vertical	-53.74	-13.00	40.74	323
3	5613.38	-57.57	3.30	12.50	Vertical	-48.37	-13.00	35.37	342
4	7484.63	-45.54	4.20	12.20	Vertical	-37.54	-13.00	24.54	43
5	9355.33	-42.08	4.30	11.10	Vertical	-35.28	-13.00	22.28	54
6	11226.39	-47.27	5.90	11.90	Vertical	-41.27	-13.00	28.27	54
7	13097.46	-50.70	5.70	14.00	Vertical	-42.40	-13.00	29.40	65
8	14968.52	-49.72	5.80	13.10	Vertical	-42.42	-13.00	29.42	76
9	16938.59	-51.92	6.10	14.60	Vertical	-43.42	-13.00	30.42	24
10	18800.00	--	--	--	--	--	--	--	--

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 Vertical 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	-61.93	2.70	12.70	Vertical	-51.93	-13.00	38.93	78
3	5197.50	-64.88	3.20	12.50	Vertical	-55.58	-13.00	42.58	52
4	6930.00	-59.14	4.20	11.80	Vertical	-51.54	-13.00	38.54	87
5	8662.50	-41.69	4.40	12.50	Vertical	-33.59	-13.00	20.59	78
6	10395.00	-56.15	4.70	11.30	Vertical	-49.55	-13.00	36.55	137
7	12127.50	-61.08	5.20	13.80	Vertical	-52.48	-13.00	39.48	43
8	13860.00	-49.61	5.70	11.30	Vertical	-44.01	-13.00	31.01	54
9	15592.50	-63.05	6.10	16.80	Vertical	-52.35	-13.00	39.35	54
10	17325.00	-58.93	6.10	14.20	Vertical	-50.83	-13.00	37.83	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 Vertical 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	-62.03	2.70	12.70	Vertical	-52.03	-13.00	39.03	76
3	5191.50	-65.11	3.20	12.50	Vertical	-55.81	-13.00	42.81	43
4	6930.00	-58.87	4.20	11.80	Vertical	-51.27	-13.00	38.27	54
5	8662.50	-42.69	4.40	12.50	Vertical	-34.59	-13.00	21.59	54
6	10380.00	-55.62	4.70	11.30	Vertical	-49.02	-13.00	36.02	65
7	12110.00	-61.25	5.20	13.80	Vertical	-52.65	-13.00	39.65	76
8	13840.00	-50.07	5.70	11.30	Vertical	-44.47	-13.00	31.47	137
9	15570.00	-64.89	6.10	16.80	Vertical	-54.19	-13.00	41.19	43
10	17300.00	-60.02	6.10	14.20	Vertical	-51.92	-13.00	38.92	54

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 Vertical 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	-60.97	2.70	12.70	Vertical	-50.97	-13.00	37.97	54
3	5170.88	-65.84	3.20	12.50	Vertical	-56.54	-13.00	43.54	65
4	6930.00	-58.26	4.20	11.80	Vertical	-50.66	-13.00	37.66	65
5	8662.50	-42.48	4.40	12.50	Vertical	-34.38	-13.00	21.38	76
6	10395.00	-57.16	4.70	11.30	Vertical	-50.56	-13.00	37.56	43
7	12127.50	-59.46	5.20	13.80	Vertical	-50.86	-13.00	37.86	54
8	13860.00	-54.32	5.70	11.30	Vertical	-48.72	-13.00	35.72	54
9	15592.50	-63.65	6.10	16.80	Vertical	-52.95	-13.00	39.95	65
10	17325.00	-60.53	6.10	14.20	Vertical	-52.43	-13.00	39.43	76

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 Vertical position.

LTE Band 5 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.00	-58.89	1.70	8.70	Vertical	-54.04	-13.00	41.04	137
3	2509.50	-60.67	2.30	12.00	Vertical	-53.12	-13.00	40.12	43
4	3346.00	-68.05	2.70	12.70	Vertical	-60.20	-13.00	47.20	43
5	4182.50	-63.82	3.00	12.50	Vertical	-56.47	-13.00	43.47	54
6	5019.00	-60.65	3.40	12.50	Vertical	-53.70	-13.00	40.70	137
7	5855.50	-61.90	3.40	12.80	Vertical	-54.65	-13.00	41.65	43
8	6692.00	-55.28	4.10	11.50	Vertical	-50.03	-13.00	37.03	54
9	7528.50	-52.88	4.20	12.20	Vertical	-47.03	-13.00	34.03	54
10	8365.00	-53.58	4.30	12.50	Vertical	-47.53	-13.00	34.53	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 Vertical position.

LTE Band 5 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1668.60	-62.19	1.70	8.70	Vertical	-57.34	-13.00	44.34	54
3	2503.30	-53.84	2.30	12.00	Vertical	-46.29	-13.00	33.29	54
4	3337.50	-68.30	2.70	12.70	Vertical	-60.45	-13.00	47.45	76
5	4171.88	-64.39	3.00	12.50	Vertical	-57.04	-13.00	44.04	43
6	5006.25	-63.09	3.40	12.50	Vertical	-56.14	-13.00	43.14	54
7	5840.63	-58.19	3.40	12.80	Vertical	-50.94	-13.00	37.94	54
8	6675.00	-54.87	4.10	11.50	Vertical	-49.62	-13.00	36.62	65
9	7509.38	-53.48	4.20	12.20	Vertical	-47.63	-13.00	34.63	76
10	8343.75	-55.29	4.30	12.50	Vertical	-49.24	-13.00	36.24	43

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 Vertical position.

LTE Band 5 10MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1664.40	-56.62	1.70	8.70	Vertical	-51.77	-13.00	38.77	65
3	2496.60	-55.90	2.30	12.00	Vertical	-48.35	-13.00	35.35	76
4	3326.00	-67.08	2.70	12.70	Vertical	-59.23	-13.00	46.23	54
5	4157.50	-63.95	3.00	12.50	Vertical	-56.60	-13.00	43.60	54
6	4989.00	-62.98	3.40	12.50	Vertical	-56.03	-13.00	43.03	137
7	5820.50	-61.56	3.40	12.80	Vertical	-54.31	-13.00	41.31	43
8	6652.00	-54.97	4.10	11.50	Vertical	-49.72	-13.00	36.72	54
9	7483.50	-53.24	4.20	12.20	Vertical	-47.39	-13.00	34.39	54
10	8315.00	-54.48	4.30	12.50	Vertical	-48.43	-13.00	35.43	43

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 Vertical position.

LTE Band 7 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	5065.80	-35.07	3.40	12.50	Vertical	-25.97	-25.00	0.97	137
3	7598.60	-36.18	4.40	12.20	Vertical	-28.38	-25.00	3.38	43
4	10130.63	-47.56	4.70	11.30	Vertical	-40.96	-25.00	15.96	54
5	12675.00	-46.69	5.40	13.20	Vertical	-38.89	-25.00	13.89	137
6	15210.00	-53.76	6.10	13.10	Vertical	-46.76	-25.00	21.76	43
7	17745.00	-53.32	6.10	14.20	Vertical	-45.22	-25.00	20.22	54
8	20280.00	--	--	--	--	--	--	--	--
9	22815.00	--	--	--	--	--	--	--	--
10	25350.00	--	--	--	--	--	--	--	--

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 Vertical position.

LTE Band 7 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	5052.20	-34.80	3.40	12.50	Vertical	-25.70	-25.00	0.70	57
3	7578.30	-37.29	4.40	12.20	Vertical	-29.49	-25.00	4.49	35
4	10104.40	-55.98	4.70	11.30	Vertical	-49.38	-25.00	24.38	78
5	12630.50	-53.84	5.40	13.20	Vertical	-46.04	-25.00	21.04	33
6	15156.60	-51.27	6.10	13.10	Vertical	-44.27	-25.00	19.27	78
7	17745.00	-51.67	6.10	14.20	Vertical	-43.57	-25.00	18.57	0
8	20208.80	--	--	--	--	--	--	--	--
9	22734.90	--	--	--	--	--	--	--	--
10	25261.00	--	--	--	--	--	--	--	--

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 Vertical 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	3509.25	-59.02	2.70	12.70	Vertical	-49.02	-13.00	36.02	54
3	5262.50	-65.16	3.20	12.50	Vertical	-55.86	-13.00	42.86	65
4	7018.00	-62.57	4.20	11.80	Vertical	-54.97	-13.00	41.97	76
5	8772.50	-43.96	4.40	12.50	Vertical	-35.86	-13.00	22.86	43
6	10527.00	-61.02	4.70	11.80	Vertical	-53.92	-13.00	40.92	54
7	12281.50	-60.55	5.20	13.80	Vertical	-51.95	-13.00	38.95	54
8	14036.00	-57.24	5.70	13.20	Vertical	-49.74	-13.00	36.74	137
9	15790.50	-65.87	6.10	16.80	Vertical	-55.17	-13.00	42.17	43
10	17545.00	-60.22	6.10	14.20	Vertical	-52.12	-13.00	39.12	54

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 Vertical 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	3486.00	-58.87	2.70	12.70	Vertical	-48.87	-13.00	35.87	54
3	5229.00	-64.99	3.20	12.50	Vertical	-55.69	-13.00	42.69	65
4	6972.00	-59.42	4.20	11.80	Vertical	-51.82	-13.00	38.82	76
5	8715.00	-43.13	4.40	12.50	Vertical	-35.03	-13.00	22.03	43
6	10458.00	-57.37	4.70	11.80	Vertical	-50.27	-13.00	37.27	54
7	12201.00	-57.67	5.20	13.80	Vertical	-49.07	-13.00	36.07	54
8	13944.00	-54.05	5.70	13.20	Vertical	-46.55	-13.00	33.55	65
9	15687.00	-64.92	6.10	16.80	Vertical	-54.22	-13.00	41.22	76
10	17430.00	-60.40	6.10	14.20	Vertical	-52.30	-13.00	39.30	137

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 Vertical 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	3472.88	-60.66	2.70	12.70	Vertical	-50.66	-13.00	37.66	43
3	5209.00	-64.07	3.20	12.50	Vertical	-54.77	-13.00	41.77	54
4	6945.75	-58.11	4.20	11.80	Vertical	-50.51	-13.00	37.51	54
5	8682.00	-43.16	4.40	12.50	Vertical	-35.06	-13.00	22.06	65
6	10418.63	-57.13	4.70	11.80	Vertical	-50.03	-13.00	37.03	65
7	12455.00	-63.89	5.20	13.80	Vertical	-55.29	-13.00	42.29	76
8	13891.50	-60.90	5.70	13.20	Vertical	-53.40	-13.00	40.40	43
9	15627.00	-64.01	6.10	16.80	Vertical	-53.31	-13.00	40.31	54
10	17364.38	-61.17	6.10	14.20	Vertical	-53.07	-13.00	40.07	54

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 Vertical position.

7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	R&S	FSV30	100815	2024-12-02	2025-12-01
Wireless Communication Tester	R&S	CMW500	150415	2024-05-07	2025-05-06
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	2024-09-24	2027-09-23
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 *****