

RF TEST REPORT

Applicant	Phillips Connect Technologies, LLC
FCC ID	2ASKH-DL02
Product	AssetTrac-LA
Brand	Phillips Connect
Model	77-6400
Report No.	R2404A0350-R3
Issue Date	May 16, 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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TABLE OF CONTENT

1	Test Laboratory	4
1.1	Notes of the Test Report	4
1.2.	Test facility	4
1.3	Testing Location	4
2	General Description of Equipment under Test	5
2.1	Applicant and Manufacturer Information	5
2.2	General information	5
3	Applied Standards	7
4	Test Configuration	8
5	Test Case	10
5.1	RF Power Output and Effective Isotropic Radiated Power	10
5.2	Radiated Spurious Emission	12
6	Test Results	15
6.1	RF Power Output and Effective Isotropic Radiated Power	15
6.2	Radiated Spurious Emission	26
7	Main Test Instruments	30
ANNEX A: The EUT Appearance		31
ANNEX B: Test Setup Photos		32

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(c)(10)	PASS
2	Radiated Spurious Emission	2.1053 /27.53(h) /27.53(g)	PASS
Date of Testing: April 12, 2024 ~ April 17, 2024 Date of Sample Received: April 10, 2024			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. 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.			

This report only tests the RF Power Output and Effective Isotropic Radiated Power and Radiated Spurious Emission of the 77-6400.

Other test items refer to the Module report (Report No.: R1805A0226-R3V2, FCC ID: XMR201606EC21A).

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	Phillips Connect Technologies, LLC
Applicant address	5231 California Avenue, Suite 110 Irvine, CA 92617, USA
Manufacturer	Phillips Connect Technologies, LLC
Manufacturer address	5231 California Avenue, Suite 110 Irvine, CA 92617, USA

2.2 General information

EUT Description			
Model	77-6400		
Lab internal SN	R2404A0350/S01		
Hardware Version	Freight-LA P3		
Software Version	Freight-LA V1		
Power Supply	Battery / External power supply		
Antenna Type	PIFA Antenna		
Antenna Gain	WCDMA Band IV	1.0 dBi	
	LTE Band 4	1.0 dBi	
	LTE Band 12	0 dBi	
Test Mode(s)	WCDMA Band IV; LTE Band 4/12		
Test Modulation	(WCDMA) BPSK, QPSK; (LTE) QPSK, 16QAM		
HSDPA UE Category	24		
HSUPA UE Category	6		
DC-HSDPA UE Category	24		
LTE Category	1		
Maximum E.I.R.P./ E.R.P.	WCDMA Band IV	24.66 dBm	
	LTE Band 4	24.55 dBm	
	LTE Band 12	21.73 dBm	
Rated Power Supply Voltage	12V		
Operating Voltage	Minimum: 10V	Maximum: 32V	
Operating Temperature	Lowest: -30°C	Highest: +75°C	
Testing Temperature	Lowest: -30°C	Highest: +50°C	
Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)

		WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
		LTE Band 4	1710 ~ 1755	2110 ~ 2155
		LTE Band 12	699 ~ 716	729 ~ 746
EUT Accessory				
Battery		Manufacturer: Ramway Model: ER14505-3+RHC1550		
Note:				
1. 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 (Y 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 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:

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
Radiated Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	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

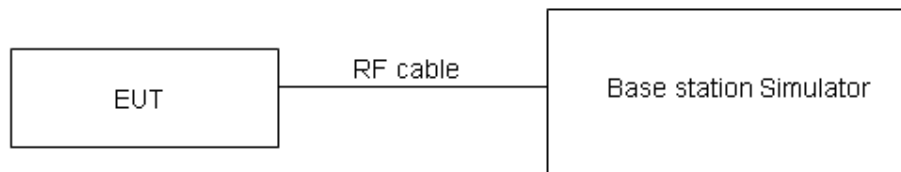
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

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

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

Test Setup



Limits

No specific RF power output requirements in part 2.1046.

Rule Part 27.50(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(c)(10)Limit	$\leq 3 \text{ W (34.77 dBm)}$
Part 27.50(d)(4)Limit	$\leq 1 \text{ W (30 dBm)}$

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:

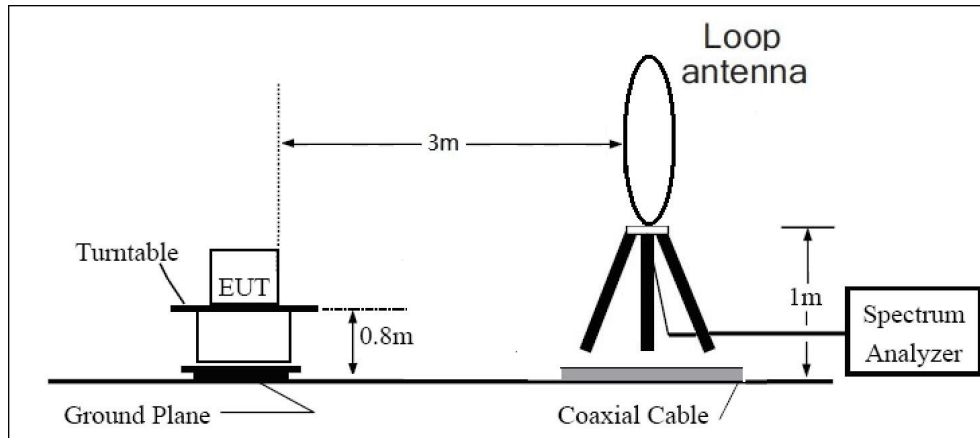
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:

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

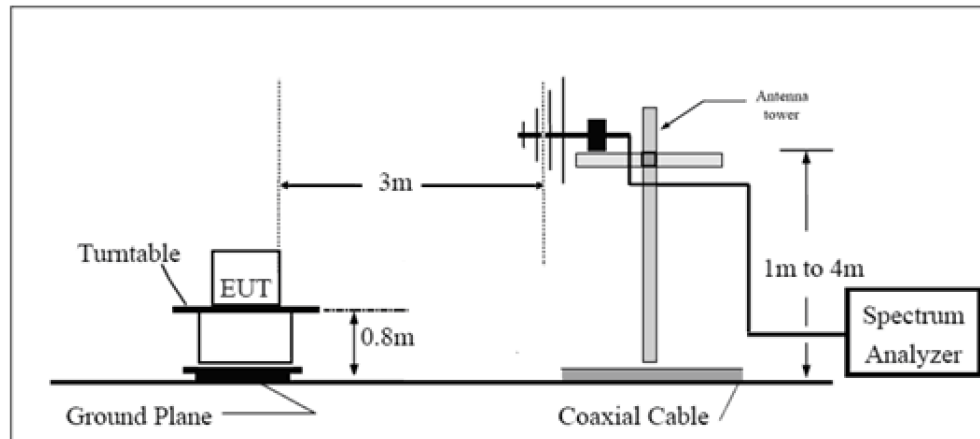
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

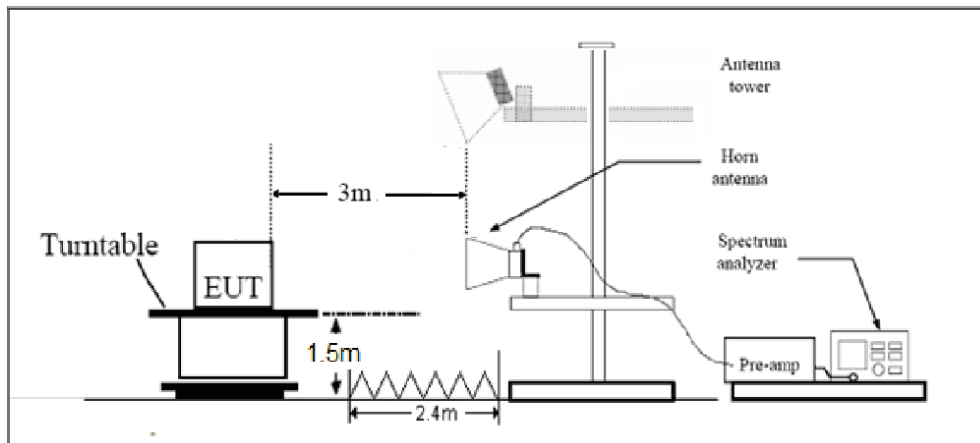
9KHz~ 30MHz



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.

Part 27.53 (h)/(g) Limit	-13 dBm
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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		23.41	23.54	23.66	24.41	24.54	24.66
HSDPA	Sub - Test 1	22.83	22.96	23.08	23.83	23.96	24.08
	Sub - Test 2	22.82	22.95	23.07	23.82	23.95	24.07
	Sub - Test 3	22.31	22.44	22.56	23.31	23.44	23.56
	Sub - Test 4	22.30	22.43	22.55	23.30	23.43	23.55
HSUPA	Sub - Test 1	21.79	21.92	22.04	22.79	22.92	23.04
	Sub - Test 2	19.78	19.91	20.03	20.78	20.91	21.03
	Sub - Test 3	20.76	20.90	21.02	21.76	21.90	22.02
	Sub - Test 4	19.75	19.89	20.01	20.75	20.89	21.01
	Sub - Test 5	23.24	23.38	23.50	24.24	24.38	24.50
DC-HSDPA	Sub - Test 1	22.75	22.90	23.00	23.75	23.90	24.00
	Sub - Test 2	22.74	22.89	22.99	23.74	23.89	23.99
	Sub - Test 3	22.32	22.38	22.50	23.32	23.38	23.50
	Sub - Test 4	22.31	22.37	22.49	23.31	23.37	23.49

LTE Band4						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	EIRP (dBm)
1.4	19957	1	#0	QPSK	22.81	23.81
1.4	19957	1	#Mid	QPSK	22.92	23.92
1.4	19957	1	#Max	QPSK	22.76	23.76
1.4	19957	3	#0	QPSK	22.87	23.87
1.4	19957	3	#Mid	QPSK	22.95	23.95
1.4	19957	3	#Max	QPSK	22.86	23.86
1.4	19957	6	#0	QPSK	21.89	22.89
1.4	20175	1	#0	QPSK	23.11	24.11
1.4	20175	1	#Mid	QPSK	23.12	24.12
1.4	20175	1	#Max	QPSK	22.92	23.92
1.4	20175	3	#0	QPSK	23.04	24.04
1.4	20175	3	#Mid	QPSK	23.05	24.05
1.4	20175	3	#Max	QPSK	22.87	23.87
1.4	20175	6	#0	QPSK	22.07	23.07
1.4	20393	1	#0	QPSK	23.08	24.08
1.4	20393	1	#Mid	QPSK	23.17	24.17
1.4	20393	1	#Max	QPSK	23.06	24.06
1.4	20393	3	#0	QPSK	23.41	24.41
1.4	20393	3	#Mid	QPSK	23.40	24.40
1.4	20393	3	#Max	QPSK	23.32	24.32
1.4	20393	6	#0	QPSK	22.28	23.28
3	19965	1	#0	QPSK	22.92	23.92
3	19965	1	#Mid	QPSK	22.89	23.89
3	19965	1	#Max	QPSK	23.17	24.17
3	19965	8	#0	QPSK	21.85	22.85
3	19965	8	#Mid	QPSK	21.85	22.85
3	19965	8	#Max	QPSK	22.01	23.01
3	19965	15	#0	QPSK	21.92	22.92
3	20175	1	#0	QPSK	23.06	24.06
3	20175	1	#Mid	QPSK	22.89	23.89
3	20175	1	#Max	QPSK	22.91	23.91
3	20175	8	#0	QPSK	22.04	23.04
3	20175	8	#Mid	QPSK	22.04	23.04
3	20175	8	#Max	QPSK	21.94	22.94
3	20175	15	#0	QPSK	22.00	23.00
3	20385	1	#0	QPSK	23.04	24.04
3	20385	1	#Mid	QPSK	23.10	24.10
3	20385	1	#Max	QPSK	23.19	24.19

3	20385	8	#0	QPSK	22.27	23.27
3	20385	8	#Mid	QPSK	22.25	23.25
3	20385	8	#Max	QPSK	22.36	23.36
3	20385	15	#0	QPSK	22.35	23.35
5	19975	1	#0	QPSK	22.98	23.98
5	19975	1	#Mid	QPSK	23.07	24.07
5	19975	1	#Max	QPSK	22.84	23.84
5	19975	12	#0	QPSK	21.86	22.86
5	19975	12	#Mid	QPSK	21.86	22.86
5	19975	12	#Max	QPSK	22.16	23.16
5	19975	25	#0	QPSK	22.02	23.02
5	20175	1	#0	QPSK	22.99	23.99
5	20175	1	#Mid	QPSK	22.75	23.75
5	20175	1	#Max	QPSK	22.72	23.72
5	20175	12	#0	QPSK	22.20	23.20
5	20175	12	#Mid	QPSK	22.20	23.20
5	20175	12	#Max	QPSK	21.98	22.98
5	20175	25	#0	QPSK	22.13	23.13
5	20375	1	#0	QPSK	23.34	24.34
5	20375	1	#Mid	QPSK	23.35	24.35
5	20375	1	#Max	QPSK	23.51	24.51
5	20375	12	#0	QPSK	22.40	23.40
5	20375	12	#Mid	QPSK	22.30	23.30
5	20375	12	#Max	QPSK	22.42	23.42
5	20375	25	#0	QPSK	22.37	23.37
10	20000	1	#0	QPSK	22.82	23.82
10	20000	1	#Mid	QPSK	23.01	24.01
10	20000	1	#Max	QPSK	22.95	23.95
10	20000	25	#0	QPSK	21.86	22.86
10	20000	25	#Mid	QPSK	21.86	22.86
10	20000	25	#Max	QPSK	22.05	23.05
10	20000	50	#0	QPSK	21.83	22.83
10	20175	1	#0	QPSK	23.02	24.02
10	20175	1	#Mid	QPSK	22.98	23.98
10	20175	1	#Max	QPSK	22.94	23.94
10	20175	25	#0	QPSK	21.95	22.95
10	20175	25	#Mid	QPSK	21.95	22.95
10	20175	25	#Max	QPSK	21.77	22.77
10	20175	50	#0	QPSK	21.92	22.92
10	20350	1	#0	QPSK	23.05	24.05
10	20350	1	#Mid	QPSK	23.55	24.55
10	20350	1	#Max	QPSK	23.39	24.39
10	20350	25	#0	QPSK	21.94	22.94

10	20350	25	#Mid	QPSK	21.93	22.93
10	20350	25	#Max	QPSK	22.28	23.28
10	20350	50	#0	QPSK	22.12	23.12
15	20025	1	#0	QPSK	22.69	23.69
15	20025	1	#Mid	QPSK	22.99	23.99
15	20025	1	#Max	QPSK	22.97	23.97
15	20025	36	#0	QPSK	21.70	22.70
15	20025	36	#Mid	QPSK	21.69	22.69
15	20025	36	#Max	QPSK	21.96	22.96
15	20025	75	#0	QPSK	21.78	22.78
15	20175	1	#0	QPSK	22.86	23.86
15	20175	1	#Mid	QPSK	22.71	23.71
15	20175	1	#Max	QPSK	22.67	23.67
15	20175	36	#0	QPSK	21.87	22.87
15	20175	36	#Mid	QPSK	21.87	22.87
15	20175	36	#Max	QPSK	21.51	22.51
15	20175	75	#0	QPSK	21.71	22.71
15	20325	1	#0	QPSK	23.13	24.13
15	20325	1	#Mid	QPSK	22.97	23.97
15	20325	1	#Max	QPSK	23.20	24.20
15	20325	36	#0	QPSK	21.87	22.87
15	20325	36	#Mid	QPSK	21.93	22.93
15	20325	36	#Max	QPSK	22.08	23.08
15	20325	75	#0	QPSK	21.80	22.80
20	20050	1	#0	QPSK	22.49	23.49
20	20050	1	#Mid	QPSK	22.79	23.79
20	20050	1	#Max	QPSK	22.50	23.50
20	20050	50	#0	QPSK	21.39	22.39
20	20050	50	#Mid	QPSK	21.38	22.38
20	20050	50	#Max	QPSK	21.65	22.65
20	20050	100	#0	QPSK	21.48	22.48
20	20175	1	#0	QPSK	22.98	23.98
20	20175	1	#Mid	QPSK	22.64	23.64
20	20175	1	#Max	QPSK	22.57	23.57
20	20175	50	#0	QPSK	21.56	22.56
20	20175	50	#Mid	QPSK	21.54	22.54
20	20175	50	#Max	QPSK	21.59	22.59
20	20175	100	#0	QPSK	21.63	22.63
20	20300	1	#0	QPSK	22.99	23.99
20	20300	1	#Mid	QPSK	23.08	24.08
20	20300	1	#Max	QPSK	23.21	24.21
20	20300	50	#0	QPSK	21.89	22.89
20	20300	50	#Mid	QPSK	21.89	22.89

20	20300	50	#Max	QPSK	21.67	22.67
20	20300	100	#0	QPSK	21.68	22.68
1.4	19957	1	#0	16QAM	21.38	22.38
1.4	19957	1	#Mid	16QAM	21.69	22.69
1.4	19957	1	#Max	16QAM	21.45	22.45
1.4	19957	3	#0	16QAM	21.48	22.48
1.4	19957	3	#Mid	16QAM	21.48	22.48
1.4	19957	3	#Max	16QAM	21.57	22.57
1.4	19957	6	#0	16QAM	20.20	21.20
1.4	20175	1	#0	16QAM	22.35	23.35
1.4	20175	1	#Mid	16QAM	22.34	23.34
1.4	20175	1	#Max	16QAM	22.13	23.13
1.4	20175	3	#0	16QAM	22.00	23.00
1.4	20175	3	#Mid	16QAM	21.99	22.99
1.4	20175	3	#Max	16QAM	21.88	22.88
1.4	20175	6	#0	16QAM	20.90	21.90
1.4	20393	1	#0	16QAM	22.21	23.21
1.4	20393	1	#Mid	16QAM	22.17	23.17
1.4	20393	1	#Max	16QAM	21.99	22.99
1.4	20393	3	#0	16QAM	22.42	23.42
1.4	20393	3	#Mid	16QAM	22.41	23.41
1.4	20393	3	#Max	16QAM	22.26	23.26
1.4	20393	6	#0	16QAM	21.27	22.27
3	19965	1	#0	16QAM	21.57	22.57
3	19965	1	#Mid	16QAM	21.77	22.77
3	19965	1	#Max	16QAM	21.74	22.74
3	19965	8	#0	16QAM	20.50	21.50
3	19965	8	#Mid	16QAM	20.50	21.50
3	19965	8	#Max	16QAM	20.67	21.67
3	19965	15	#0	16QAM	20.59	21.59
3	20175	1	#0	16QAM	21.83	22.83
3	20175	1	#Mid	16QAM	21.60	22.60
3	20175	1	#Max	16QAM	21.61	22.61
3	20175	8	#0	16QAM	20.58	21.58
3	20175	8	#Mid	16QAM	20.58	21.58
3	20175	8	#Max	16QAM	20.41	21.41
3	20175	15	#0	16QAM	20.57	21.57
3	20385	1	#0	16QAM	22.30	23.30
3	20385	1	#Mid	16QAM	22.78	23.78
3	20385	1	#Max	16QAM	22.94	23.94
3	20385	8	#0	16QAM	21.54	22.54
3	20385	8	#Mid	16QAM	21.42	22.42
3	20385	8	#Max	16QAM	21.55	22.55

3	20385	15	#0	16QAM	21.44	22.44
5	19975	1	#0	16QAM	22.29	23.29
5	19975	1	#Mid	16QAM	22.32	23.32
5	19975	1	#Max	16QAM	22.21	23.21
5	19975	12	#0	16QAM	20.69	21.69
5	19975	12	#Mid	16QAM	20.68	21.68
5	19975	12	#Max	16QAM	20.88	21.88
5	19975	25	#0	16QAM	20.90	21.90
5	20175	1	#0	16QAM	22.15	23.15
5	20175	1	#Mid	16QAM	21.91	22.91
5	20175	1	#Max	16QAM	21.99	22.99
5	20175	12	#0	16QAM	21.06	22.06
5	20175	12	#Mid	16QAM	21.06	22.06
5	20175	12	#Max	16QAM	20.82	21.82
5	20175	25	#0	16QAM	20.92	21.92
5	20375	1	#0	16QAM	22.58	23.58
5	20375	1	#Mid	16QAM	22.68	23.68
5	20375	1	#Max	16QAM	22.94	23.94
5	20375	12	#0	16QAM	21.18	22.18
5	20375	12	#Mid	16QAM	21.17	22.17
5	20375	12	#Max	16QAM	21.30	22.30
5	20375	25	#0	16QAM	21.42	22.42
10	20000	1	#0	16QAM	21.85	22.85
10	20000	1	#Mid	16QAM	22.15	23.15
10	20000	1	#Max	16QAM	21.99	22.99
10	20000	25	#0	16QAM	20.74	21.74
10	20000	25	#Mid	16QAM	20.60	21.60
10	20000	25	#Max	16QAM	20.68	21.68
10	20175	1	#0	16QAM	22.30	23.30
10	20175	1	#Mid	16QAM	22.32	23.32
10	20175	1	#Max	16QAM	22.24	23.24
10	20175	25	#0	16QAM	20.77	21.77
10	20175	25	#Mid	16QAM	20.77	21.77
10	20175	25	#Max	16QAM	20.66	21.66
10	20350	1	#0	16QAM	21.29	22.29
10	20350	1	#Mid	16QAM	21.80	22.80
10	20350	1	#Max	16QAM	21.83	22.83
10	20350	25	#0	16QAM	20.93	21.93
10	20350	25	#Mid	16QAM	20.93	21.93
10	20350	25	#Max	16QAM	21.25	22.25
15	20025	1	#0	16QAM	21.68	22.68
15	20025	1	#Mid	16QAM	21.69	22.69
15	20025	1	#Max	16QAM	21.98	22.98

15	20175	1	#0	16QAM	22.14	23.14
15	20175	1	#Mid	16QAM	22.10	23.10
15	20175	1	#Max	16QAM	22.16	23.16
15	20325	1	#0	16QAM	20.91	21.91
15	20325	1	#Mid	16QAM	21.61	22.61
15	20325	1	#Max	16QAM	21.77	22.77
20	20050	1	#0	16QAM	21.64	22.64
20	20050	1	#Mid	16QAM	22.11	23.11
20	20050	1	#Max	16QAM	21.17	22.17
20	20175	1	#0	16QAM	21.16	22.16
20	20175	1	#Mid	16QAM	21.13	22.13
20	20175	1	#Max	16QAM	20.90	21.90
20	20300	1	#0	16QAM	21.91	22.91
20	20300	1	#Mid	16QAM	21.98	22.98
20	20300	1	#Max	16QAM	22.17	23.17

LTE Band12						
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
1.4	23017	1	#0	QPSK	23.81	21.66
1.4	23017	1	#Mid	QPSK	23.78	21.63
1.4	23017	1	#Max	QPSK	23.65	21.50
1.4	23017	3	#0	QPSK	23.68	21.53
1.4	23017	3	#Mid	QPSK	23.88	21.73
1.4	23017	3	#Max	QPSK	23.62	21.47
1.4	23017	6	#0	QPSK	22.75	20.60
1.4	23095	1	#0	QPSK	23.49	21.34
1.4	23095	1	#Mid	QPSK	23.58	21.43
1.4	23095	1	#Max	QPSK	23.43	21.28
1.4	23095	3	#0	QPSK	23.67	21.52
1.4	23095	3	#Mid	QPSK	23.66	21.51
1.4	23095	3	#Max	QPSK	23.61	21.46
1.4	23095	6	#0	QPSK	22.64	20.49
1.4	23173	1	#0	QPSK	23.53	21.38
1.4	23173	1	#Mid	QPSK	23.76	21.61
1.4	23173	1	#Max	QPSK	23.88	21.73
1.4	23173	3	#0	QPSK	23.54	21.39
1.4	23173	3	#Mid	QPSK	23.53	21.38
1.4	23173	3	#Max	QPSK	23.74	21.59
1.4	23173	6	#0	QPSK	22.61	20.46
3	23025	1	#0	QPSK	23.62	21.47
3	23025	1	#Mid	QPSK	23.66	21.51

3	23025	1	#Max	QPSK	23.50	21.35
3	23025	8	#0	QPSK	22.82	20.67
3	23025	8	#Mid	QPSK	22.81	20.66
3	23025	8	#Max	QPSK	22.70	20.55
3	23025	15	#0	QPSK	22.73	20.58
3	23095	1	#0	QPSK	23.66	21.51
3	23095	1	#Mid	QPSK	23.54	21.39
3	23095	1	#Max	QPSK	23.27	21.12
3	23095	8	#0	QPSK	22.66	20.51
3	23095	8	#Mid	QPSK	22.66	20.51
3	23095	8	#Max	QPSK	22.64	20.49
3	23095	15	#0	QPSK	22.65	20.50
3	23165	1	#0	QPSK	23.30	21.15
3	23165	1	#Mid	QPSK	23.48	21.33
3	23165	1	#Max	QPSK	23.81	21.66
3	23165	8	#0	QPSK	22.35	20.20
3	23165	8	#Mid	QPSK	22.37	20.22
3	23165	8	#Max	QPSK	22.51	20.36
3	23165	15	#0	QPSK	22.54	20.39
5	23035	1	#0	QPSK	23.69	21.54
5	23035	1	#Mid	QPSK	23.56	21.41
5	23035	1	#Max	QPSK	23.51	21.36
5	23035	12	#0	QPSK	22.56	20.41
5	23035	12	#Mid	QPSK	22.56	20.41
5	23035	12	#Max	QPSK	22.51	20.36
5	23035	25	#0	QPSK	22.61	20.46
5	23095	1	#0	QPSK	23.42	21.27
5	23095	1	#Mid	QPSK	23.43	21.28
5	23095	1	#Max	QPSK	23.19	21.04
5	23095	12	#0	QPSK	22.54	20.39
5	23095	12	#Mid	QPSK	22.53	20.38
5	23095	12	#Max	QPSK	22.52	20.37
5	23095	25	#0	QPSK	22.51	20.36
5	23155	1	#0	QPSK	23.31	21.16
5	23155	1	#Mid	QPSK	23.43	21.28
5	23155	1	#Max	QPSK	23.35	21.20
5	23155	12	#0	QPSK	22.31	20.16
5	23155	12	#Mid	QPSK	22.33	20.18
5	23155	12	#Max	QPSK	22.46	20.31
5	23155	25	#0	QPSK	22.37	20.22
10	23060	1	#0	QPSK	23.50	21.35
10	23060	1	#Mid	QPSK	23.86	21.71
10	23060	1	#Max	QPSK	23.44	21.29

10	23060	25	#0	QPSK	22.42	20.27
10	23060	25	#Mid	QPSK	22.42	20.27
10	23060	25	#Max	QPSK	22.74	20.59
10	23060	50	#0	QPSK	22.57	20.42
10	23095	1	#0	QPSK	23.29	21.14
10	23095	1	#Mid	QPSK	23.64	21.49
10	23095	1	#Max	QPSK	23.13	20.98
10	23095	25	#0	QPSK	22.55	20.40
10	23095	25	#Mid	QPSK	22.54	20.39
10	23095	25	#Max	QPSK	22.48	20.33
10	23095	50	#0	QPSK	22.50	20.35
10	23130	1	#0	QPSK	23.30	21.15
10	23130	1	#Mid	QPSK	23.74	21.59
10	23130	1	#Max	QPSK	23.24	21.09
10	23130	25	#0	QPSK	22.60	20.45
10	23130	25	#Mid	QPSK	22.60	20.45
10	23130	25	#Max	QPSK	22.26	20.11
10	23130	50	#0	QPSK	22.43	20.28
1.4	23017	1	#0	16QAM	22.93	20.78
1.4	23017	1	#Mid	16QAM	23.06	20.91
1.4	23017	1	#Max	16QAM	22.78	20.63
1.4	23017	3	#0	16QAM	22.97	20.82
1.4	23017	3	#Mid	16QAM	22.97	20.82
1.4	23017	3	#Max	16QAM	22.89	20.74
1.4	23017	6	#0	16QAM	21.56	19.41
1.4	23095	1	#0	16QAM	22.91	20.76
1.4	23095	1	#Mid	16QAM	22.98	20.83
1.4	23095	1	#Max	16QAM	22.85	20.70
1.4	23095	3	#0	16QAM	22.79	20.64
1.4	23095	3	#Mid	16QAM	22.79	20.64
1.4	23095	3	#Max	16QAM	22.78	20.63
1.4	23095	6	#0	16QAM	21.74	19.59
1.4	23173	1	#0	16QAM	22.36	20.21
1.4	23173	1	#Mid	16QAM	22.88	20.73
1.4	23173	1	#Max	16QAM	22.55	20.40
1.4	23173	3	#0	16QAM	22.37	20.22
1.4	23173	3	#Mid	16QAM	22.37	20.22
1.4	23173	3	#Max	16QAM	22.36	20.21
1.4	23173	6	#0	16QAM	21.22	19.07
3	23025	1	#0	16QAM	22.66	20.51
3	23025	1	#Mid	16QAM	22.66	20.51
3	23025	1	#Max	16QAM	22.48	20.33
3	23025	8	#0	16QAM	21.86	19.71

3	23025	8	#Mid	16QAM	21.86	19.71
3	23025	8	#Max	16QAM	21.81	19.66
3	23025	15	#0	16QAM	21.74	19.59
3	23095	1	#0	16QAM	23.06	20.91
3	23095	1	#Mid	16QAM	23.02	20.87
3	23095	1	#Max	16QAM	22.68	20.53
3	23095	8	#0	16QAM	21.79	19.64
3	23095	8	#Mid	16QAM	21.79	19.64
3	23095	8	#Max	16QAM	21.60	19.45
3	23095	15	#0	16QAM	21.58	19.43
3	23165	1	#0	16QAM	22.12	19.97
3	23165	1	#Mid	16QAM	22.33	20.18
3	23165	1	#Max	16QAM	22.40	20.25
3	23165	8	#0	16QAM	21.11	18.96
3	23165	8	#Mid	16QAM	21.12	18.97
3	23165	8	#Max	16QAM	21.65	19.50
3	23165	15	#0	16QAM	21.39	19.24
5	23035	1	#0	16QAM	23.13	20.98
5	23035	1	#Mid	16QAM	23.00	20.85
5	23035	1	#Max	16QAM	23.03	20.88
5	23035	12	#0	16QAM	21.58	19.43
5	23035	12	#Mid	16QAM	21.58	19.43
5	23035	12	#Max	16QAM	21.49	19.34
5	23035	25	#0	16QAM	21.52	19.37
5	23095	1	#0	16QAM	22.92	20.77
5	23095	1	#Mid	16QAM	22.94	20.79
5	23095	1	#Max	16QAM	22.79	20.64
5	23095	12	#0	16QAM	21.29	19.14
5	23095	12	#Mid	16QAM	21.29	19.14
5	23095	12	#Max	16QAM	21.30	19.15
5	23095	25	#0	16QAM	21.34	19.19
5	23155	1	#0	16QAM	22.26	20.11
5	23155	1	#Mid	16QAM	22.22	20.07
5	23155	1	#Max	16QAM	22.20	20.05
5	23155	12	#0	16QAM	21.37	19.22
5	23155	12	#Mid	16QAM	21.38	19.23
5	23155	12	#Max	16QAM	21.32	19.17
5	23155	25	#0	16QAM	21.42	19.27
10	23060	1	#0	16QAM	22.49	20.34
10	23060	1	#Mid	16QAM	22.97	20.82
10	23060	1	#Max	16QAM	22.72	20.57
10	23060	25	#0	16QAM	21.47	19.32
10	23060	25	#Mid	16QAM	21.47	19.32

10	23060	25	#Max	16QAM	21.72	19.57
10	23095	1	#0	16QAM	23.03	20.88
10	23095	1	#Mid	16QAM	23.36	21.21
10	23095	1	#Max	16QAM	22.87	20.72
10	23095	25	#0	16QAM	21.71	19.56
10	23095	25	#Mid	16QAM	21.64	19.49
10	23095	25	#Max	16QAM	21.54	19.39
10	23130	1	#0	16QAM	22.53	20.38
10	23130	1	#Mid	16QAM	22.63	20.48
10	23130	1	#Max	16QAM	22.25	20.10
10	23130	25	#0	16QAM	21.39	19.24
10	23130	25	#Mid	16QAM	21.39	19.24
10	23130	25	#Max	16QAM	21.33	19.18

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	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.20	-68.92	2.70	12.70	Horizontal	-58.92	-13.00	45.92	225
3	5197.80	-63.64	3.20	12.50	Horizontal	-54.34	-13.00	41.34	163
4	6930.40	-70.68	4.20	11.80	Horizontal	-63.08	-13.00	50.08	76
5	8663.00	-63.51	4.40	12.50	Horizontal	-55.41	-13.00	42.41	201
6	10395.60	-61.46	4.70	11.30	Horizontal	-54.86	-13.00	41.86	180
7	12128.20	-63.40	5.20	13.80	Horizontal	-54.80	-13.00	41.80	65
8	13860.80	-57.88	5.70	11.30	Horizontal	-52.28	-13.00	39.28	138
9	15593.40	-67.95	6.10	16.80	Horizontal	-57.25	-13.00	44.25	57
10	17326.00	-61.97	6.10	14.20	Horizontal	-53.87	-13.00	40.87	69
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	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3463.60	-66.37	2.70	12.70	Horizontal	-56.37	-13.00	43.37	88
3	5195.40	-59.07	3.20	12.50	Horizontal	-49.77	-13.00	36.77	24
4	6927.20	-68.22	4.20	11.80	Horizontal	-60.62	-13.00	47.62	175
5	8659.00	-62.65	4.40	12.50	Horizontal	-54.55	-13.00	41.55	113
6	10390.80	-59.92	4.70	11.30	Horizontal	-53.32	-13.00	40.32	68
7	12122.60	-64.35	5.20	13.80	Horizontal	-55.75	-13.00	42.75	14
8	13854.40	-57.09	5.70	11.30	Horizontal	-51.49	-13.00	38.49	239
9	15586.20	-68.16	6.10	16.80	Horizontal	-57.46	-13.00	44.46	216
10	17318.00	-62.26	6.10	14.20	Horizontal	-54.16	-13.00	41.16	285
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	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.00	-65.59	2.70	12.70	Horizontal	-55.59	-13.00	42.59	63
3	5190.00	-58.56	3.20	12.50	Horizontal	-49.26	-13.00	36.26	45
4	6920.00	-69.33	4.20	11.80	Horizontal	-61.73	-13.00	48.73	0
5	8650.00	-63.51	4.40	12.50	Horizontal	-55.41	-13.00	42.41	194
6	10380.00	-60.22	4.70	11.30	Horizontal	-53.62	-13.00	40.62	235
7	12110.00	-65.15	5.20	13.80	Horizontal	-56.55	-13.00	43.55	301
8	13840.00	-58.36	5.70	11.30	Horizontal	-52.76	-13.00	39.76	97
9	15570.00	-67.32	6.10	16.80	Horizontal	-56.62	-13.00	43.62	146
10	17300.00	-61.52	6.10	14.20	Horizontal	-53.42	-13.00	40.42	118
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	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.00	-68.83	2.70	12.70	Horizontal	-58.83	-13.00	45.83	156
3	5170.90	-63.21	3.20	12.50	Horizontal	-53.91	-13.00	40.91	204
4	6894.40	-70.87	4.20	11.80	Horizontal	-63.27	-13.00	50.27	227
5	8618.00	-65.61	4.40	12.50	Horizontal	-57.51	-13.00	44.51	16
6	10341.40	-62.44	4.70	11.30	Horizontal	-55.84	-13.00	42.84	0
7	12057.50	-64.73	5.20	13.80	Horizontal	-56.13	-13.00	43.13	45
8	13788.60	-57.94	5.70	11.30	Horizontal	-52.34	-13.00	39.34	270
9	15502.50	-67.83	6.10	16.80	Horizontal	-57.13	-13.00	44.13	286
10	17225.00	-62.26	6.10	14.20	Horizontal	-54.16	-13.00	41.16	309
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	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1413.60	-32.42	1.70	8.70	Horizontal	-27.57	-13.00	14.57	35
3	2120.40	-44.88	2.10	11.10	Horizontal	-38.03	-13.00	25.03	148
4	2827.20	-52.35	2.30	13.10	Horizontal	-43.70	-13.00	30.70	62
5	3534.00	-43.29	2.60	12.70	Horizontal	-35.34	-13.00	22.34	46
6	4240.00	-40.06	3.30	12.50	Horizontal	-33.01	-13.00	20.01	182
7	4947.60	-45.07	3.40	12.50	Horizontal	-38.12	-13.00	25.12	0
8	5654.40	-46.14	3.30	12.50	Horizontal	-39.09	-13.00	26.09	17
9	6361.20	-48.27	3.80	11.50	Horizontal	-42.72	-13.00	29.72	304
10	7068.00	-45.37	4.20	11.80	Horizontal	-39.92	-13.00	26.92	45
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	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-32.17	1.70	8.70	Horizontal	-27.32	-13.00	14.32	101
3	2115.90	-46.31	2.10	11.10	Horizontal	-39.46	-13.00	26.46	39
4	2820.00	-51.80	2.30	13.10	Horizontal	-43.15	-13.00	30.15	152
5	3525.00	-47.00	2.60	12.70	Horizontal	-39.05	-13.00	26.05	93
6	4230.00	-39.89	3.30	12.50	Horizontal	-32.84	-13.00	19.84	117
7	4935.00	-45.04	3.40	12.50	Horizontal	-38.09	-13.00	25.09	80
8	5640.00	-46.57	3.30	12.50	Horizontal	-39.52	-13.00	26.52	246
9	6345.00	-48.02	3.80	11.50	Horizontal	-42.47	-13.00	29.47	198
10	7050.00	-44.84	4.20	11.80	Horizontal	-39.39	-13.00	26.39	225
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	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1405.00	-31.70	1.70	8.70	Horizontal	-26.85	-13.00	13.85	45
3	2107.50	-47.23	2.10	11.10	Horizontal	-40.38	-13.00	27.38	11
4	2810.00	-52.39	2.30	13.10	Horizontal	-43.74	-13.00	30.74	196
5	3512.50	-44.32	2.60	12.70	Horizontal	-36.37	-13.00	23.37	32
6	4215.00	-40.14	3.30	12.50	Horizontal	-33.09	-13.00	20.09	180
7	4917.50	-46.28	3.40	12.50	Horizontal	-39.33	-13.00	26.33	231
8	5620.00	-46.13	3.30	12.50	Horizontal	-39.08	-13.00	26.08	90
9	6322.50	-47.93	3.80	11.50	Horizontal	-42.38	-13.00	29.38	315
10	7025.00	-45.24	4.20	11.80	Horizontal	-39.79	-13.00	26.79	270
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	2023-05-12	2024-05-11
Wireless Communication Tester	Agilent	E5515C	MY48367192	2023-05-12	2024-05-11
Radiated Spurious Emission					
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
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 *****