





RF TEST REPORT

Applicant Quectel Wireless Solutions Co., Ltd

FCC ID XMR201605EC25A

Product LTE Module

Brand Quectel

Model EC25-A, EC25-A MINIPCIE

Report No. R1808A0380-R3

Issue Date September 3, 2018

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2018)/ FCC CFR47 Part 27C (2018). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Jiangpeng Lan

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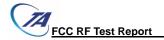
Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict				
1	RF power output	2.1046	Refer to the original				
2	Effective Isotropic Radiated power	27.50(d)(4)/27.50(c)(10) / 27.50(h)(2)	PASS				
3	Occupied Bandwidth	2.1049	Refer to the original				
4	Band Edge Compliance	27.53(h) /27.53(g)	Refer to the original				
5	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	Refer to the original				
6	Frequency Stability	2.1055 /27.54	Refer to the original				
7	Spurious Emissions at Antenna Terminals	2.1051 /27.53(h) /27.53(g)	Refer to the original				
8	Radiates Spurious Emission	2.1051 /27.53(h) /27.53(g)	PASS				
Date of Te	Date of Testing: July 25, 2018 ~ August 28, 2018						

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.

EC25-A, EC25-A MINIPCIE (Report No: R1808A0380-R3) is a variant model of EC25-A (Report No: RKS160908001-00A). There is only tested Effective Radiated Power and Radiated Spurious Emissions for variant in this report. Other test items refer to the original (Report No: RKS160908001-00A). The detailed product change description please refers to EC25-A Request letter.



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 **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

CNAS (accreditation number: L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

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

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

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

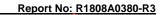
VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

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

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1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

City: Shanghai

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2 General Description of Equipment under Test

Client Information

Applicant	Quectel Wireless Solutions Co., Ltd				
Applicant address	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China				
Manufacturer	Quectel Wireless Solutions Co., Ltd				
Manufacturer address	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China				

General information

	EUT Description						
Model	EC25-A, EC25-A MINIP	PCIE					
IMEI	861107039623245	861107039623245					
Hardware Version	R1.0						
Software Version	EC25AFAR05A04M4G						
Power Supply	External Power Supply						
Antenna Type	The EUT don't have statesting in this report is Antenna)	,					
Antenna Gain	4.5 dBi						
Test Mode(s)	WCDMA Band IV; LTE Band 4; LTE Band 12,						
Test Modulation	(WCDMA)QPSK; (LTE)	QPSK 16QAM;					
HSDPA UE Category	24						
HSUPA UE Category	6						
DC-HSDPA UE Category	24						
HSPA+ UE Category	6						
LTE Category	4						
	WCDMA Band IV:	26.24dBm					
Maximum E.I.R.P./ E.R.P.	LTE Band 4:	26.32dBm					
	LTE Band 12:	22.64dBm					
Rated Power Supply Voltage:	3.8V						
Extreme Voltage	Minimum: 3.3V Maxii	mum: 4.3V					
Extreme Temperature	Lowest: -40°C Highest: +85°C						
	Mode	Tx (MHz)	Rx (MHz)				
Operating Frequency Range(s)	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155				
operating r requertoy reange(s)	LTE Band 4	1710 ~ 1755	2110 ~ 2155				
	LTE Band 12	729 ~ 746					
Note: 1. The information of the	EUT is declared by the m	nanufacturer.					





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 2 (2018)

FCC CFR47 Part 27C (2018)

ANSI C63.26 (2015)

KDB 971168 D01 Power Meas License Digital Systems v03r01



4 Test Configuration

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

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

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

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

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

Test items	Modes/Modulation
rest items	WCDMA Band IV
Effective Isotropic Radiated power	RMC
Radiates 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	Н
Effective Isotropic	LTE 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiated power	LTE 12	0	0	0	0	-	-	0	0	0	0	0	0	0	0
Radiates	LTE 4	0	-	0	-	-	0	0	-	0	-	-	0	0	0
Spurious Emission	LTE 12	0	-	0	0	-	-	0	-	0	-	-	0	0	0
Note		The mark "O" means that this configuration is chosen for testing. The mark "-" means that this configuration is not testing.													



5 Test Case Results

5.1 Effective Isotropic Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI/TIA-603-E (2016).
- a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.
- b) Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading.LOSS = Generator Output Power (dBm) Analyzer reading (dBm)
- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:ERP (dBm) = LVL (dBm) + LOSS (dB)
- f) The maximum ERP is the maximum value determined in the preceding step.
- g) When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g.transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be calculated as follows:

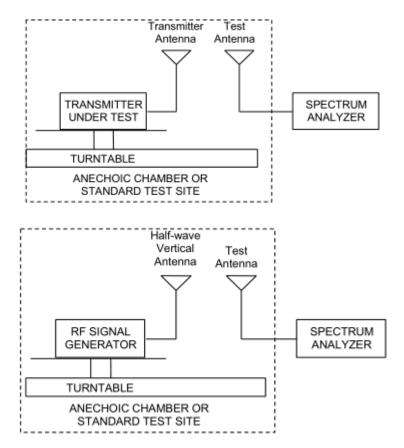
EIRP (dBm) = Output Power (dBm) - Losses (dB) + Antenna Gain (dBd) where:dBd refers to gain relative to an ideal dipole.

EIRP (dBm) = ERP (dBm) + 2.15 (dB.)





Test setup



Note: Area side:2.4mX3.6m

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.



Limits

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"

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

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 1.19 dB



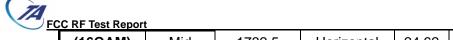
Test Results

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The measurement is performed for both of horizontal and vertical antenna Polarization, and only the data of worst mode is recorded in this report.

Mode	Channel	Frequency (MHz)	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion
WCDMA	Low	1712.4	Horizontal	26.05	30	Pass
	Mid	1732.6	Horizontal	26.24	30	Pass
Band IV	High	1752.6	Horizontal	25.80	30	Pass

	LTE Band 4							
Bandwidth	Channel	Frequency (MHz)	Polarization	EIRP (dBm)	Limit (dBm)	Conclusion		
1 4 MH=	Low	1710.7	Horizontal	25.43	30	Pass		
1.4 MHz (QPSK)	Mid	1732.5	Horizontal	25.19	30	Pass		
(QFSK)	High	1754.3	Horizontal	25.12	30	Pass		
3 MHz	Low	1711.5	Horizontal	25.67	30	Pass		
(QPSK)	Mid	1732.5	Horizontal	25.24	30	Pass		
(QFSK)	High	1753.5	Horizontal	25.15	30	Pass		
5 MHz	Low	1712.5	Horizontal	25.54	30	Pass		
	Mid	1732.5	Horizontal	25.21	30	Pass		
(QPSK)	High	1752.5	Horizontal	25.18	30	Pass		
10 MHz	Low	1715	Horizontal	25.74	30	Pass		
_	Mid	1732.5	Horizontal	25.86	30	Pass		
(QPSK)	High	1750	Horizontal	26.32	30	Pass		
45 MU-	Low	1717.5	Horizontal	25.32	30	Pass		
15 MHz (QPSK)	Mid	1732.5	Horizontal	25.10	30	Pass		
	High	1747.5	Horizontal	25.01	30	Pass		
20 MU-	Low	1720	Horizontal	25.40	30	Pass		
20 MHz (QPSK)	Mid	1732.5	Horizontal	25.53	30	Pass		
(QFSK)	High	1745	Horizontal	26.29	30	Pass		
1.4 MHz	Low	1710.7	Horizontal	25.01	30	Pass		
	Mid	1732.5	Horizontal	24.68	30	Pass		
(16QAM)	High	1754.3	Horizontal	24.79	30	Pass		
3 MHz	Low	1711.5	Horizontal	25.24	30	Pass		
	Mid	1732.5	Horizontal	24.87	30	Pass		
(16QAM)	High	1753.5	Horizontal	24.26	30	Pass		
5 MU-	Low	1712.5	Horizontal	25.08	30	Pass		
5 MHz	Mid	1732.5	Horizontal	24.67	30	Pass		
(16QAM)	High	1752.5	Horizontal	24.51	30	Pass		
40 MU-	Low	1715	Horizontal	25.13	30	Pass		
10 MHz	Mid	1732.5	Horizontal	25.28	30	Pass		
(16QAM)	High	1750	Horizontal	25.91	30	Pass		
15 MHz	Low	1717.5	Horizontal	24.67	30	Pass		



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		LT	E Band 12			
Bandwidth	Channel	Frequency (MHz)	Polarization	ERP (dBm)	Limit (dBm)	Conclusion
1.4 MHz	Low	699.7	Horizontal	21.27	34.77	Pass
	Mid	707.5	Horizontal	21.83	34.77	Pass
(QPSK)	High	715.3	Horizontal	22.61	34.77	Pass
3 MHz	Low	700.5	Horizontal	21.13	34.77	Pass
	Mid	707.5	Horizontal	21.77	34.77	Pass
(QPSK)	High	714.5	Horizontal	22.64	34.77	Pass
5 MILL	Low	701.5	Horizontal	21.36	34.77	Pass
5 MHz (QPSK)	Mid	707.5	Horizontal	21.66	34.77	Pass
(QPSK)	High	713.5	Horizontal	21.84	34.77	Pass
10 MHz	Low	704	Horizontal	21.05	34.77	Pass
(QPSK)	Mid	707.5	Horizontal	21.66	34.77	Pass
(QFSK)	High	711	Horizontal	21.75	34.77	Pass
1.4 MHz	Low	699.7	Horizontal	20.93	34.77	Pass
(16QAM)	Mid	707.5	Horizontal	21.23	34.77	Pass
(TOQAIVI)	High	715.3	Horizontal	22.04	34.77	Pass
3 MHz	Low	700.5	Horizontal	20.61	34.77	Pass
(16QAM)	Mid	707.5	Horizontal	21.39	34.77	Pass
(TOQAW)	High	714.5	Horizontal	21.98	34.77	Pass
5 MHz	Low	701.5	Horizontal	21.02	34.77	Pass
	Mid	707.5	Horizontal	21.13	34.77	Pass
(16QAM)	High	713.5	Horizontal	21.24	34.77	Pass
10 MHz	Low	704	Horizontal	20.72	34.77	Pass
10 MHZ (16QAM)	Mid	707.5	Horizontal	20.99	34.77	Pass
(TOWAN)	High	711	Horizontal	21.23	34.77	Pass



5.2 Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

- 1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
- 2. Above 30MHz: 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 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=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 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 (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

Power(EIRP)=PMea- Pcl + Ga

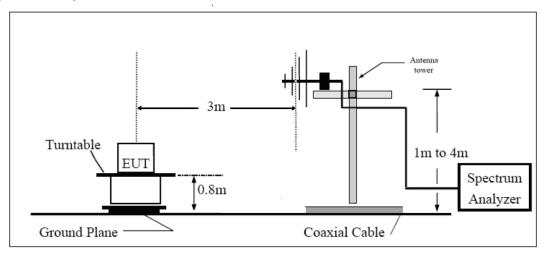
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP



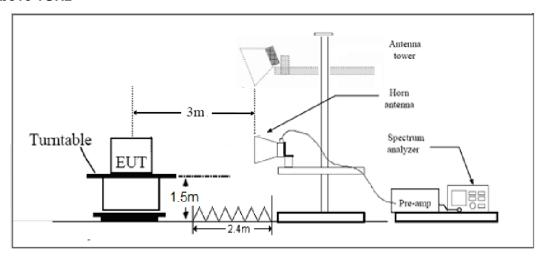


Test setup

30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.



Limits

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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 log10 (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
(, (3)	

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 Result

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

WCDMA Band IV CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3424.8	-62.75	2.6	10.15	Horizontal	-55.20	-13.00	42.20	0
3	5137.2	-60.55	2.4	11.35	Horizontal	-51.60	-13.00	38.60	135
4	6850.1	-52.55	4.5	10.85	Horizontal	-46.20	-13.00	33.20	180
5	8562.0	-50.75	5.1	11.35	Horizontal	-44.50	-13.00	31.50	135
6	10274.4	-50.75	5.3	11.95	Horizontal	-44.10	-13.00	31.10	225
7	11986.8	-49.65	5.5	13.55	Horizontal	-41.60	-13.00	28.60	180
8	13699.2	-46.95	6.3	13.75	Horizontal	-39.50	-13.00	26.50	180
9	15411.6	-46.05	6.7	13.85	Horizontal	-38.90	-13.00	25.90	315
10	17124.0	-	-	-	-	-	-	-	-

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

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	3462.8	-62.25	2.6	10.75	Horizontal	-54.10	-13.00	41.10	180
3	5201.3	-60.15	2.4	11.05	Horizontal	-51.50	-13.00	38.50	135
4	6925.1	-51.85	4.5	11.15	Horizontal	-45.20	-13.00	32.20	90
5	8663.0	-51.15	5.1	11.35	Horizontal	-44.90	-13.00	31.90	90
6	10395.6	-50.75	5.3	11.95	Horizontal	-44.10	-13.00	31.10	180
7	12128.2	-51.95	5.5	13.55	Horizontal	-43.90	-13.00	30.90	315
8	13860.8	-48.65	6.3	13.75	Horizontal	-41.20	-13.00	28.20	135
9	15593.4	-46.65	6.7	13.85	Horizontal	-39.50	-13.00	26.50	180
10	17326.0	-	ı	ı	-	-	-	-	-

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.

^{2.} The worst emission was found in the antenna is Horizontal position.



WCDMA Band IV CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3503.3	-63.95	2.6	10.15	Horizontal	-56.43	-13.00	43.43	135
3	5254.1	-60.15	2.4	11.05	Horizontal	-51.50	-13.00	38.50	90
4	7010.4	-52.35	4.5	11.15	Horizontal	-45.65	-13.00	32.65	225
5	8763.0	-51.55	5.1	11.35	Horizontal	-45.26	-13.00	32.26	180
6	10515.6	-49.95	5.3	11.95	Horizontal	-43.35	-13.00	30.35	315
7	12268.2	-49.85	5.5	13.55	Horizontal	-41.79	-13.00	28.79	135
8	14020.8	-48.65	6.3	13.75	Horizontal	-41.21	-13.00	28.21	180
9	15773.4	-49.15	6.7	13.85	Horizontal	-41.98	-13.00	28.98	45
10	17526.0	-	-	-	-	-	-	-	-

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3421.4	-61.24	2.6	10.15	Horizontal	-53.69	-13.00	40.69	135
3	5131.1	-59.15	2.4	11.35	Horizontal	-50.20	-13.00	37.20	90
4	6842.8	-55.91	4.5	10.85	Horizontal	-49.56	-13.00	36.56	90
5	8553.5	-52.83	5.1	11.35	Horizontal	-46.58	-13.00	33.58	180
6	10264.2	-50.96	5.3	11.95	Horizontal	-44.31	-13.00	31.31	315
7	11974.9	-49.83	5.5	13.55	Horizontal	-41.78	-13.00	28.78	225
8	13685.6	-48.79	6.3	13.75	Horizontal	-41.34	-13.00	28.34	180
9	15396.3	-45.06	6.7	13.85	Horizontal	-37.91	-13.00	24.91	135
10	17107.0	-45.67	6.8	14.25	Horizontal	-38.22	-13.00	25.22	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 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	3464.3	-62.96	2.6	10.75	Horizontal	-54.81	-13.00	41.81	135
3	5197.5	-61.88	2.4	11.05	Horizontal	-53.23	-13.00	40.23	90
4	6930.0	-56.72	4.5	11.15	Horizontal	-50.07	-13.00	37.07	225
5	8662.5	-50.93	5.1	11.35	Horizontal	-44.68	-13.00	31.68	180
6	10395.0	-50.50	5.3	11.95	Horizontal	-43.85	-13.00	30.85	315
7	12127.5	-49.06	5.5	13.55	Horizontal	-41.01	-13.00	28.01	225
8	13860.0	-46.24	6.3	13.75	Horizontal	-38.79	-13.00	25.79	180
9	15592.5	-45.85	6.7	13.85	Horizontal	-38.70	-13.00	25.70	45
10	17325.0	-45.48	6.8	14.25	Horizontal	-38.03	-13.00	25.03	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3507.8	-62.35	2.6	10.15	Horizontal	-54.80	-13.00	41.80	90
3	5261.6	-59.99	2.4	11.05	Horizontal	-51.34	-13.00	38.34	225
4	7017.2	-55.20	4.5	11.15	Horizontal	-48.55	-13.00	35.55	180
5	8771.5	-52.24	5.1	11.35	Horizontal	-45.99	-13.00	32.99	315
6	10525.8	-50.15	5.3	11.95	Horizontal	-43.50	-13.00	30.50	90
7	12280.1	-48.76	5.5	13.55	Horizontal	-40.71	-13.00	27.71	90
8	14034.4	-48.13	6.3	13.75	Horizontal	-40.68	-13.00	27.68	45
9	15788.7	-45.10	6.7	13.85	Horizontal	-37.95	-13.00	24.95	135
10	17543.0	-45.66	6.8	14.25	Horizontal	-38.21	-13.00	25.21	90

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3425.0	-63.93	2.6	10.15	Horizontal	-56.38	-13.00	43.38	225
3	5131.1	-62.82	2.4	11.35	Horizontal	-53.87	-13.00	40.87	180
4	6850.0	-55.66	4.5	10.85	Horizontal	-49.31	-13.00	36.31	315
5	8562.5	-52.75	5.1	11.35	Horizontal	-46.50	-13.00	33.50	225
6	10275.0	-49.96	5.3	11.95	Horizontal	-43.31	-13.00	30.31	180
7	11987.5	-48.96	5.5	13.55	Horizontal	-40.91	-13.00	27.91	90
8	13700.0	-48.28	6.3	13.75	Horizontal	-40.83	-13.00	27.83	90
9	15412.5	-44.83	6.7	13.85	Horizontal	-37.68	-13.00	24.68	180
10	17125.0	-46.97	6.8	14.25	Horizontal	-39.52	-13.00	26.52	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

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	3460.5	-63.40	2.6	10.75	Horizontal	-55.25	-13.00	42.25	90
3	5191.5	-62.06	2.4	11.05	Horizontal	-53.41	-13.00	40.41	180
4	6930.0	-55.24	4.5	11.15	Horizontal	-48.59	-13.00	35.59	90
5	8662.5	-52.57	5.1	11.35	Horizontal	-46.32	-13.00	33.32	90
6	10395.0	-51.02	5.3	11.95	Horizontal	-44.37	-13.00	31.37	180
7	12127.5	-49.05	5.5	13.55	Horizontal	-41.00	-13.00	28.00	90
8	13860.0	-48.88	6.3	13.75	Horizontal	-41.43	-13.00	28.43	90
9	15592.5	-44.64	6.7	13.85	Horizontal	-37.49	-13.00	24.49	180
10	17325.0	-46.45	6.8	14.25	Horizontal	-39.00	-13.00	26.00	315

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.

^{2.} The worst emission was found in the antenna is Horizontal position.



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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3500.6	-61.63	2.6	10.15	Horizontal	-54.08	-13.00	41.08	225
3	5250.8	-60.53	2.4	11.05	Horizontal	-51.88	-13.00	38.88	45
4	7010.0	-56.18	4.5	11.15	Horizontal	-49.53	-13.00	36.53	135
5	8762.5	-51.08	5.1	11.35	Horizontal	-44.83	-13.00	31.83	90
6	10515.0	-49.65	5.3	11.95	Horizontal	-43.00	-13.00	30.00	225
7	12267.5	-49.15	5.5	13.55	Horizontal	-41.10	-13.00	28.10	180
8	14020.0	-48.41	6.3	13.75	Horizontal	-40.96	-13.00	27.96	315
9	15772.5	-45.12	6.7	13.85	Horizontal	-37.97	-13.00	24.97	45
10	17525.0	-46.53	6.8	14.25	Horizontal	-39.08	-13.00	26.08	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3421.9	-62.35	2.6	10.15	Horizontal	-54.80	-13.00	41.80	135
3	5133.0	-59.81	2.4	11.35	Horizontal	-50.86	-13.00	37.86	90
4	6880.0	-56.58	4.5	10.85	Horizontal	-50.23	-13.00	37.23	90
5	8600.0	-51.95	5.1	11.35	Horizontal	-45.70	-13.00	32.70	180
6	10320.0	-49.12	5.3	11.95	Horizontal	-42.47	-13.00	29.47	135
7	12040.0	-49.17	5.5	13.55	Horizontal	-41.12	-13.00	28.12	90
8	13760.0	-48.66	6.3	13.75	Horizontal	-41.21	-13.00	28.21	90
9	15480.0	-44.96	6.7	13.85	Horizontal	-37.81	-13.00	24.81	180
10	17200.0	-47.94	6.8	14.25	Horizontal	-40.49	-13.00	27.49	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Horizontal position.



LTE Band 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	3447.0	-63.78	2.6	10.75	Horizontal	-55.63	-13.00	42.63	90
3	5170.5	-60.42	2.4	11.05	Horizontal	-51.77	-13.00	38.77	180
4	6930.0	-55.00	4.5	11.15	Horizontal	-48.35	-13.00	35.35	180
5	8662.5	-52.85	5.1	11.35	Horizontal	-46.60	-13.00	33.60	315
6	10395.0	-48.65	5.3	11.95	Horizontal	-42.00	-13.00	29.00	225
7	12127.5	-49.73	5.5	13.55	Horizontal	-41.68	-13.00	28.68	180
8	13860.0	-45.66	6.3	13.75	Horizontal	-38.21	-13.00	25.21	135
9	15592.5	-48.05	6.7	13.85	Horizontal	-40.90	-13.00	27.90	90
10	17325.0	-45.40	6.8	14.25	Horizontal	-37.95	-13.00	24.95	90

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3472.1	-63.56	2.6	10.15	Horizontal	-56.01	-13.00	43.01	90
3	5208.4	-59.38	2.4	11.05	Horizontal	-50.73	-13.00	37.73	180
4	6980.0	-56.09	4.5	11.15	Horizontal	-49.44	-13.00	36.44	90
5	8725.0	-51.35	5.1	11.35	Horizontal	-45.10	-13.00	32.10	90
6	10470.0	-50.64	5.3	11.95	Horizontal	-43.99	-13.00	30.99	180
7	12215.0	-48.84	5.5	13.55	Horizontal	-40.79	-13.00	27.79	135
8	13960.0	-47.06	6.3	13.75	Horizontal	-39.61	-13.00	26.61	90
9	15705.0	-47.98	6.7	13.85	Horizontal	-40.83	-13.00	27.83	225
10	17450.0	-46.02	6.8	14.25	Horizontal	-38.57	-13.00	25.57	180

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-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1399.40	-62.95	2.00	10.15	Horizontal	-56.95	-13.00	43.95	90
3	2099.10	-64.47	2.50	11.35	Horizontal	-57.77	-13.00	44.77	180
4	2798.80	-58.07	4.20	10.85	Horizontal	-53.57	-13.00	40.57	315
5	3498.50	-59.62	5.20	11.35	Horizontal	-55.62	-13.00	42.62	180
6	4198.20	-58.25	5.50	11.95	Horizontal	-53.95	-13.00	40.95	45
7	4897.90	-58.43	5.70	13.55	Horizontal	-52.73	-13.00	39.73	135
8	5597.60	-55.78	6.30	13.75	Horizontal	-50.48	-13.00	37.48	90
9	6297.30	-54.95	6.80	13.85	Horizontal	-50.05	-13.00	37.05	225
10	6997.00	-51.47	6.90	14.25	Horizontal	-46.27	-13.00	33.27	135

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	1415.00	-62.72	2.00	10.75	Horizontal	-56.12	-13.00	43.12	135
3	2122.50	-64.62	2.51	11.05	Horizontal	-58.23	-13.00	45.23	180
4	2830.00	-59.42	4.20	11.15	Horizontal	-54.62	-13.00	41.62	45
5	3537.50	-59.10	5.20	11.15	Horizontal	-55.30	-13.00	42.30	180
6	4245.00	-58.04	5.50	11.95	Horizontal	-53.74	-13.00	40.74	45
7	4952.50	-58.40	5.70	13.55	Horizontal	-52.70	-13.00	39.70	90
8	5660.00	-56.50	6.30	13.75	Horizontal	-51.20	-13.00	38.20	90
9	6367.50	-55.43	6.80	13.85	Horizontal	-50.53	-13.00	37.53	135
10	7075.00	-51.03	6.90	14.25	Horizontal	-45.83	-13.00	32.83	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1430.60	-62.17	2.00	10.15	Horizontal	-56.17	-13.00	43.17	90
3	2145.90	-64.89	2.51	11.05	Horizontal	-58.50	-13.00	45.50	90
4	2861.20	-60.34	4.20	11.15	Horizontal	-55.54	-13.00	42.54	180
5	3576.50	-59.21	5.20	11.15	Horizontal	-55.41	-13.00	42.41	135
6	4291.80	-57.29	5.50	11.95	Horizontal	-52.99	-13.00	39.99	180
7	5007.10	-57.97	5.70	13.55	Horizontal	-52.27	-13.00	39.27	45
8	5722.40	-57.25	6.30	13.75	Horizontal	-51.95	-13.00	38.95	90
9	6437.70	-55.33	6.80	13.85	Horizontal	-50.43	-13.00	37.43	135
10	7153.00	-51.30	6.90	14.25	Horizontal	-46.10	-13.00	33.10	225

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1403.00	-62.57	2.00	10.15	Horizontal	-56.57	-13.00	43.57	315
3	2104.50	-65.29	2.50	11.35	Horizontal	-58.59	-13.00	45.59	225
4	2806.00	-59.81	4.20	10.85	Horizontal	-55.31	-13.00	42.31	180
5	3507.50	-61.63	5.20	11.35	Horizontal	-57.63	-13.00	44.63	90
6	4209.00	-58.96	5.50	11.95	Horizontal	-54.66	-13.00	41.66	180
7	4910.50	-58.56	5.70	13.55	Horizontal	-52.86	-13.00	39.86	315
8	5612.00	-57.22	6.30	13.75	Horizontal	-51.92	-13.00	38.92	135
9	6313.50	-54.58	6.80	13.85	Horizontal	-49.68	-13.00	36.68	180
10	7015.00	-50.40	6.90	14.25	Horizontal	-45.20	-13.00	32.20	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	1415.00	-63.33	2.00	10.75	Horizontal	-56.73	-13.00	43.73	90
3	2122.50	-64.38	2.51	11.05	Horizontal	-57.99	-13.00	44.99	135
4	2830.00	-59.17	4.20	11.15	Horizontal	-54.37	-13.00	41.37	0
5	3537.50	-60.25	5.20	11.15	Horizontal	-56.45	-13.00	43.45	135
6	4245.00	-57.85	5.50	11.95	Horizontal	-53.55	-13.00	40.55	90
7	4952.50	-58.40	5.70	13.55	Horizontal	-52.70	-13.00	39.70	90
8	5660.00	-56.46	6.30	13.75	Horizontal	-51.16	-13.00	38.16	90
9	6367.50	-54.72	6.80	13.85	Horizontal	-49.82	-13.00	36.82	180
10	7075.00	-50.51	6.90	14.25	Horizontal	-45.31	-13.00	32.31	315

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1427.00	-60.48	2.00	10.15	Horizontal	-54.48	-13.00	41.48	135
3	2140.50	-63.67	2.51	11.05	Horizontal	-57.28	-13.00	44.28	180
4	2854.00	-59.14	4.20	11.15	Horizontal	-54.34	-13.00	41.34	45
5	3567.50	-59.78	5.20	11.15	Horizontal	-55.98	-13.00	42.98	225
6	4281.00	-58.24	5.50	11.95	Horizontal	-53.94	-13.00	40.94	180
7	4994.50	-56.25	5.70	13.55	Horizontal	-50.55	-13.00	37.55	90
8	5708.00	-55.30	6.30	13.75	Horizontal	-50.00	-13.00	37.00	135
9	6421.50	-54.87	6.80	13.85	Horizontal	-49.97	-13.00	36.97	0
10	7135.00	-50.42	6.90	14.25	Horizontal	-45.22	-13.00	32.22	135

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-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1408.00	-61.39	2.00	10.15	Horizontal	-55.39	-13.00	42.39	90
3	2112.00	-64.22	2.51	11.35	Horizontal	-57.53	-13.00	44.53	315
4	2816.00	-59.54	4.20	10.85	Horizontal	-55.04	-13.00	42.04	135
5	3520.00	-61.22	5.20	11.35	Horizontal	-57.22	-13.00	44.22	180
6	4224.00	-58.87	5.50	11.95	Horizontal	-54.57	-13.00	41.57	45
7	4928.00	-57.24	5.70	13.55	Horizontal	-51.54	-13.00	38.54	90
8	5632.00	-55.79	6.30	13.75	Horizontal	-50.49	-13.00	37.49	180
9	6336.00	-54.69	6.80	13.85	Horizontal	-49.79	-13.00	36.79	315
10	7040.00	-51.91	6.90	14.25	Horizontal	-46.71	-13.00	33.71	135

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

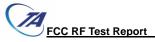
LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-63.42	2.00	10.75	Horizontal	-56.82	-13.00	43.82	135
3	2122.50	-65.08	2.51	11.05	Horizontal	-58.69	-13.00	45.69	180
4	2830.00	-59.87	4.20	11.15	Horizontal	-55.07	-13.00	42.07	45
5	3537.50	-60.30	5.20	11.15	Horizontal	-56.50	-13.00	43.50	180
6	4245.00	-58.72	5.50	11.95	Horizontal	-54.42	-13.00	41.42	90
7	4952.50	-57.28	5.70	13.55	Horizontal	-51.58	-13.00	38.58	180
8	5660.00	-55.49	6.30	13.75	Horizontal	-50.19	-13.00	37.19	315
9	6367.50	-54.27	6.80	13.85	Horizontal	-49.37	-13.00	36.37	135
10	7075.00	-49.93	6.90	14.25	Horizontal	-44.73	-13.00	31.73	180

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.

^{2.} The worst emission was found in the antenna is Horizontal position.



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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1422.00	-63.41	2.00	10.15	Horizontal	-57.41	-13.00	44.41	90
3	2133.00	-62.65	2.51	11.05	Horizontal	-56.26	-13.00	43.26	315
4	2844.00	-59.12	4.20	11.15	Horizontal	-54.32	-13.00	41.32	135
5	3555.00	-60.20	5.20	11.15	Horizontal	-56.40	-13.00	43.40	45
6	4266.00	-57.97	5.50	11.95	Horizontal	-53.67	-13.00	40.67	135
7	4977.00	-56.04	5.70	13.55	Horizontal	-50.34	-13.00	37.34	90
8	5688.00	-56.04	6.30	13.75	Horizontal	-50.74	-13.00	37.74	225
9	6399.00	-53.92	6.80	13.85	Horizontal	-49.02	-13.00	36.02	180
10	7110.00	-51.07	6.90	14.25	Horizontal	-45.87	-13.00	32.87	0

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Horizontal position.



6 Main Test Instruments

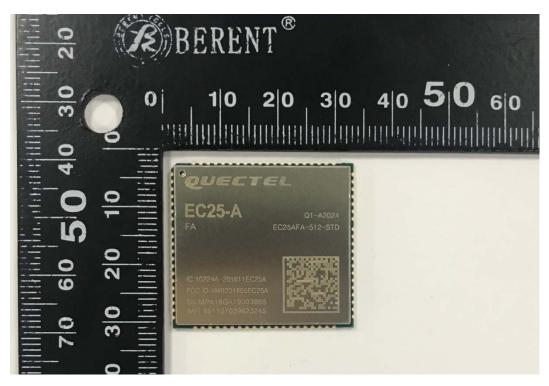
Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2018-05-20	2019-05-19
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	/	/
Spectrum Analyzer	Key sight	N9010A	MY50210259	2018-05-20	2019-05-19
Signal Analyzer	R&S	FSV30	100815	2017-12-17	2018-12-16
EMI Test Receiver	R&S	ESCI	100948	2018-05-20	2019-05-19
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2017-09-26	2019-09-25
Trilog Antenna	SCHWARZBECK	VUBL 9163	9163-201	2017-11-18	2019-11-17
Horn Antenna	R&S	HF907	100126	2018-07-07	2020-07-06
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2020-06-19
Signal generator	R&S	SMB 100A	102594	2018-05-20	2019-05-19
Climatic Chamber	ESPEC	SU-242	93000506	2017-12-17	2020-12-16
Preampflier	R&S	SCU18	102327	2018-05-20	2019-05-19
MOB COMMS DC SUPPLY	Keysight	66319D	MY43004105	2018-05-21	2019-05-20
RF Cable	Agilent	SMA 15cm	0001	/	/
Software	R&S	EMC32	9.26.0	/	/

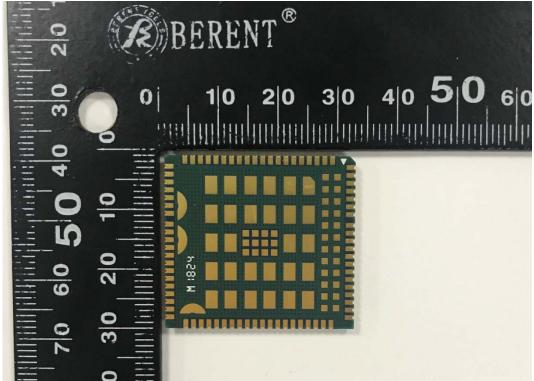
*****END OF REPORT *****



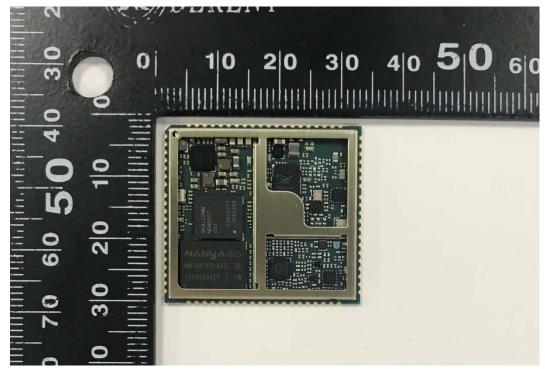
ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance









a: EUT **Picture 1 EUT and Accessory**



A.2 Test Setup





Picture 2: Radiated Spurious Emissions Test setup