

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE170705202

FCC REPORT

(WIFI)

Applicant: Baicells Technologies Co., Ltd.

Address of Applicant: 3F, Hui Yuan Development Building, No.1 Shangdi Information

Industry Base, Haidian Dist., Beijing, China

Equipment Under Test (EUT)

Product Name: LTE Outdoor CPE

Model No.: EG7035L-M2

Trade mark: BaiCells

FCC ID: 2AG32EG7035LM2

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 05 Jul., 2017

Date of Test: 05 Jul., 2017 to 11 Jul., 2017

Date of report issued: 12 Jul., 2017

Test Result: PASS*

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





Version

Version No.	Date	Description
00	12 Jul., 2017	Original

(grey (hen Test Engineer Tested by: Date: 12 Jul., 2017

Reviewed by: Date: 12 Jul., 2017

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.





5 General Information

5.1 Client Information

Applicant:	Baicells Technologies Co., Ltd.
Address of Applicant: 3F, Hui Yuan Development Building, No.1 Shangdi Information Base, Haidian Dist., Beijing, China	
Manufacturer:	Baicells Technologies Co., Ltd.
Address of Manufacturer:	3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, China

5.2 General Description of E.U.T.

Product Name:	LTE Outdoor CPE	
Model No.:	EG7035L-M2	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))	
Channel numbers:	11 for 802.11b/802.11g/802.11n(H20) 7 for 802.11n(H40)	
Channel separation:	5MHz	
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)	
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)	
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps	
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps	
Data speed (IEEE 802.11n):	Up to 150Mbps	
Antenna Type:	Internal Antenna	
Antenna gain:	0dBi	
Power supply:	DC 24V	





Operation Frequency each of channel For 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n(H40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (H20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (H40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



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5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Operation mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
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Report No: CCISE170705202

testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Website: http://www.ccis-cb.com

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5.7 Test Instruments list

Radia	Radiated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	02-25-2017	02-24-2018
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	02-25-2017	02-24-2018
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018
10	Loop antenna	Laplace instrument	RF300	EMC0701	02-25-2017	02-24-2018
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
12	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018
13	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018

Cond	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018	
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018	
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018	
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 0 dBi.







6.2 Conducted Emission

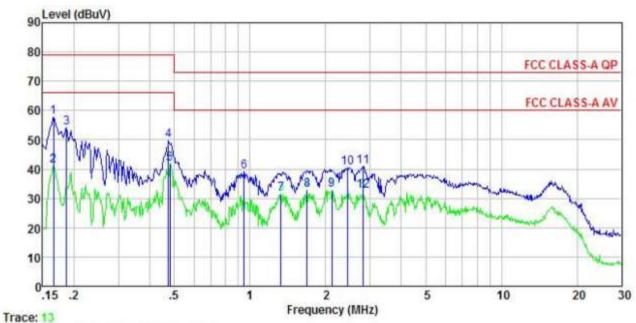
Test Requirement:	FCC Part 15 C Section 1	FCC Part 15 C Section 15.207			
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Class / Severity:	Class B				
Receiver setup:	RBW=9 kHz, VBW=30 k	 Hz			
Limit:	Frequency range	Limit (d	dBuV)		
Cirriit.	(MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
	50ohm/50uH coupling 2. The peripheral device a LISN that provides termination. (Please photographs). 3. Both sides of A.C. ling interference. In order positions of equipments	a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).			
Test setup:	AUX Equipment Test table/Insula Remark E U.T. Equipment Under LISN Line Impedence St Test table height=0.8m	E.U.T EMI Receiver	Ilter — AC power		
Test Instruments:	Refer to section 5.6 for d	etails			
Test mode:	Refer to section 5.3 for d	etails			
Test results:	Passed				





Measurement Data:

Neutral:



Site

: CCIS Shielding Room : FCC CLASS-A QP LISN NEUTRAL : LTE Outdoor CPE Condition

EUT : EG7035L-M2 : WIFI mode Model Test Mode Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

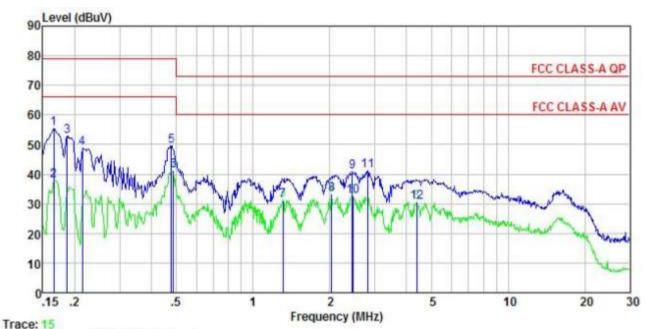
Test Engineer: Carey

emark								
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	₫₿uѶ	dB	dB	dBu∀	₫₿uѶ	₫B	
1	0.166	47.42	-0.37	10.77	57.82	79.00	-21.18	QP
1 2 3 4 5 6 7 8 9	0.166	30.72	-0.37	10.77	41.12	66.00	-24.88	Average
3	0.186	43.60	-0.35	10.76	54.01		-24.99	
4	0.474	39.23	-0.30	10.75	49.68	79.00	-29.32	QP
5	0.481	31.47	-0.30	10.75	41.92	66.00	-24.08	Average
6	0.948	28.47	-0.29	10.85	39.03		-33.97	
7	1.331	20.95	-0.28	10.91	31.58	60.00	-28.42	Average
8	1.689	22.32	-0.27	10.94	32.99	60.00	-27.01	Average
9	2.121	22.02	-0.25	10.95	32.72	60.00	-27.28	Average
10	2.448	29.89	-0.23	10.94	40.60	73.00	-32.40	QP
11	2.809	30.23	-0.21	10.93	40.95	73.00	-32.05	QP
12	2.809	21.79	-0.21	10.93	32.51	60.00	-27.49	Average

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss.



Line:



Site : CCIS S Condition : FCC CI

: CCIS Shielding Room : FCC CLASS-A QP LISN LINE

EUT : LTE Outdoor CPE
Model : EG7035L-M2
Test Mode : WIFI mode

Power Rating: AC 120V/60Hz Environment: Temp: 23 °C Huni: 56% Atmos: 101KPa

Test Engineer: Carey

Remark

emark	Freq	Read Level	LISN Factor	Cable Loss		Limit Line		Remark
-	MHz	₫₿u₹	<u>d</u> B	<u>ab</u>	dBu₹	₫₿u₹	dB	
1	0.166	45.17	-0.55	10.77	55.39	79.00	-23.61	QP
2	0.166	27.72	-0.55	10.77	37.94	66.00	-28.06	Average
3	0.186	42.58	-0.53	10.76	52.81	79.00	-26.19	QP
1 2 3 4 5 6 7 8 9	0.214	38.45	-0.52	10.76	48.69	79.00	-30.31	QP
5	0.479	39.37	-0.49	10.75	49.63	79.00	-29.37	QP
6	0.486	30.79	-0.49	10.76	41.06	66.00	-24.94	Average
7	1.310	20.66	-0.47	10.90	31.09	60.00	-28.91	Average
8	2.033	22.76	-0.43	10.96	33.29	60.00	-26.71	Average
9	2.448	30.30	-0.44	10.94	40.80	73.00	-32.20	QP
10	2.461	22.01	-0.44	10.94	32.51	60.00	-27.49	Average
11 12	2.824	30.71	-0.44	10.93	41.20	73.00	-31.80	QP
12	4.384	20.08	-0.25	10.87	30.70	60.00	-29.30	Average

Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v0 section 9.2.2.2			
Limit:	30dBm			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.6 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data:

modelar official pata.						
Test CH	Ма	aximum Conduct	Limit(dBm)	Result		
Test Off	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBin)	Nesuit
Lowest	11.08	11.81	11.84	11.16		
Middle	10.28	11.09	11.09	10.68	30.00	Pass
Highest	9.52	10.32	10.44	10.32		

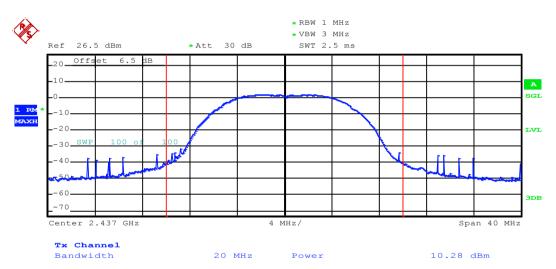


Test plot as follows:

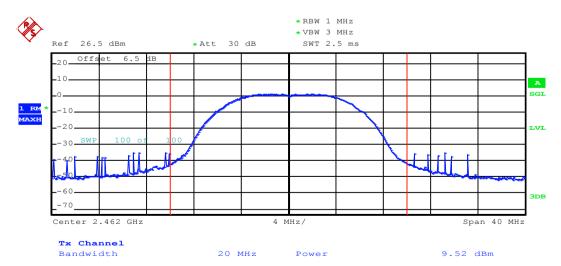
Test mode: 802.11b



Lowest channel

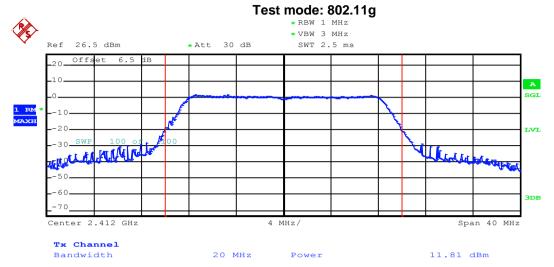


Middle channel



Highest channel

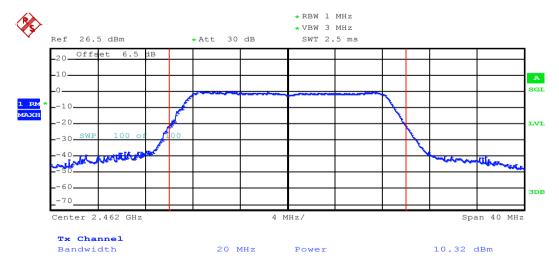




Lowest channel

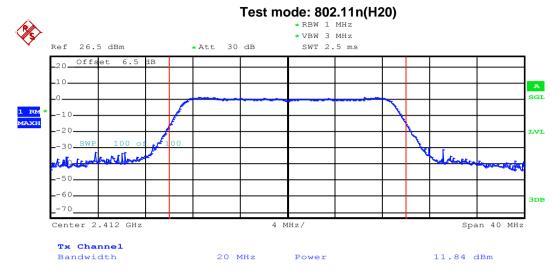


Middle channel

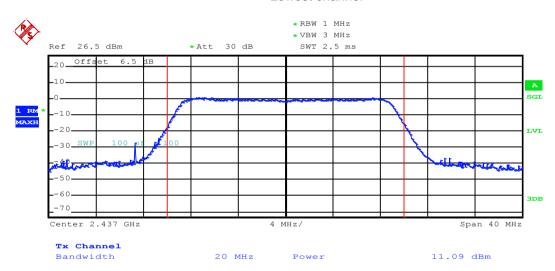


Highest channel

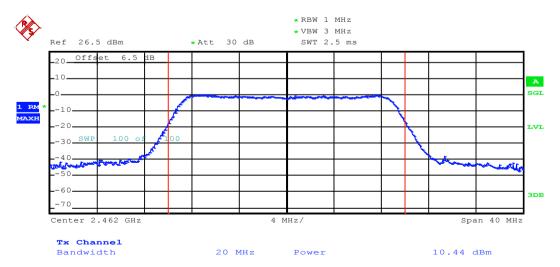




Lowest channel

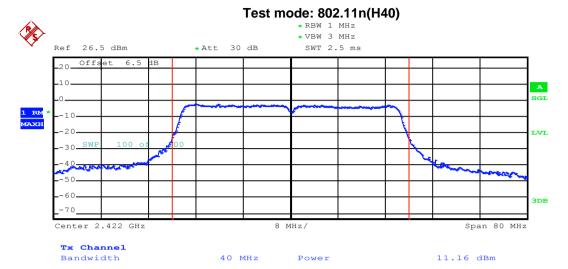


Middle channel

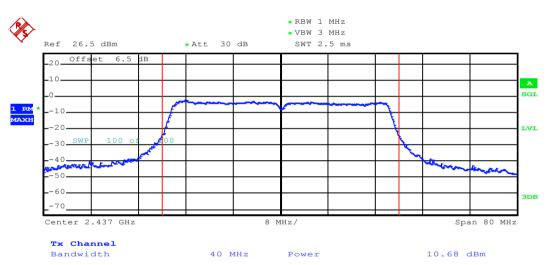


Highest channel

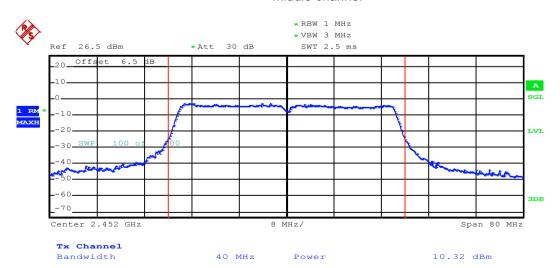




Lowest channel



Middle channel



Highest channel





6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 8.1		
Limit:	>500kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

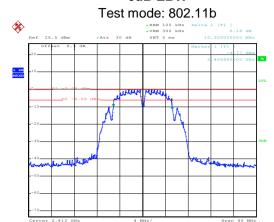
Measurement Data:

Test CH		6dB Emission	Limit(kHz)	Result		
1031 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(Kriz)	Nosuit
Lowest	10.32	16.56	17.68	36.32		
Middle	10.24	16.52	17.52	36.36	>500	Pass
Highest	10.24	16.56	17.52	36.56		
Test CH		99% Occupy	Limit(kHz)	Result		
1031 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Liiiii(Ki iz)	Result
Lowest	12.24	16.56	17.68	36.32		
Middle	12.24	16.56	17.68	36.32	N/A	N/A
Highest	12.24	16.56	17.68	36.32		



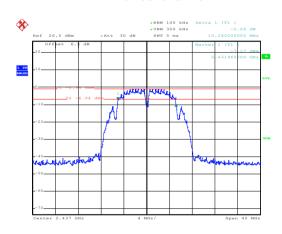
Test plot as follows:

6dB EBW



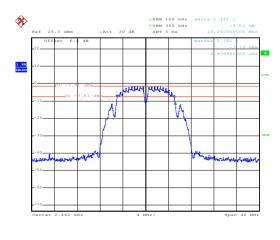
Date: 2.JUL.2017 10:14:05

Lowest channel



Date: 2.JUL.2017 10:12:34

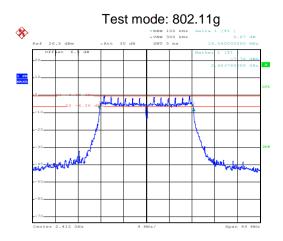
Middle channel



Date: 2.JUL.2017 10:07:28

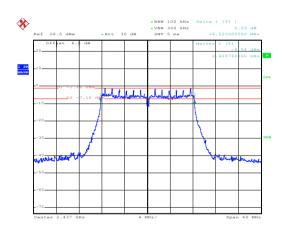
Highest channel





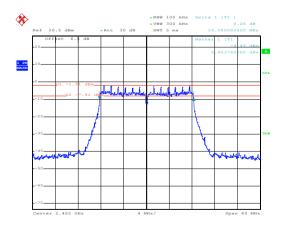
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Lowest channel



Date: 2.JUL.2017 10:17:28

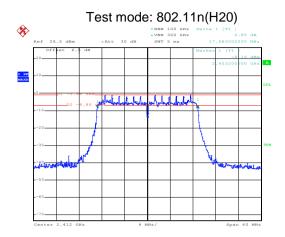
Middle channel



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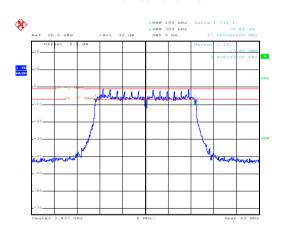
Highest channel





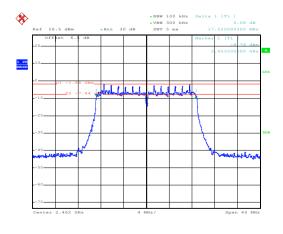
Date: 2.JUL.2017 10:46:37

Lowest channel



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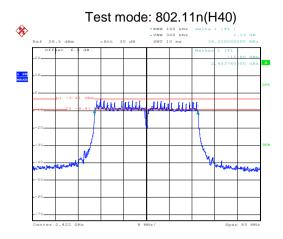
Middle channel



Date: 2.JUL.2017 10:43:36

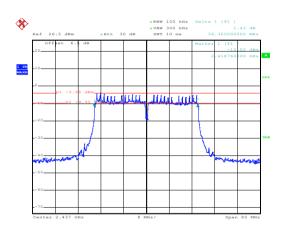
Highest channel





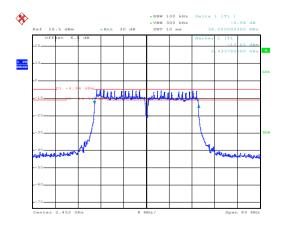
Date: 2.JUL.2017 10:52:17

Lowest channel



Date: 2.JUL.2017 10:51:08

Middle channel

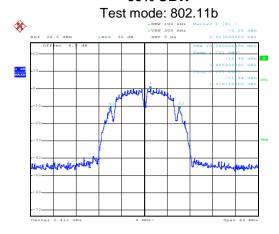


Date: 2.JUL.2017 10:53:27

Highest channel

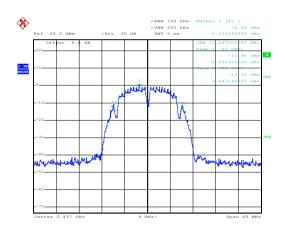






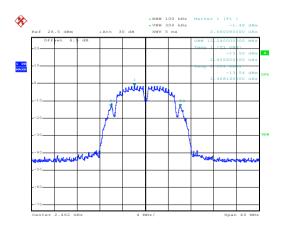
Date: 2.JUL.2017 10:04:34

Lowest channel



Date: 2.JUL.2017 10:05:08

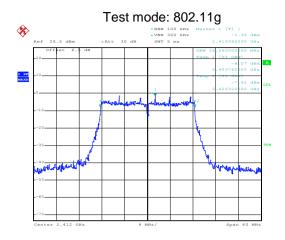
Middle channel



Date: 2.JUL.2017 10:05:45

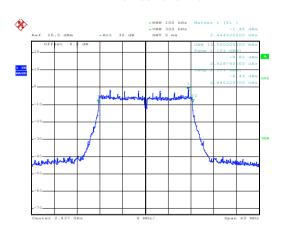
Highest channel





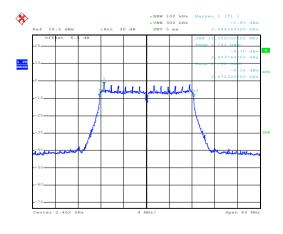
Date: 2.JUL.2017 10:34:12

Lowest channel



Date: 2.JUL.2017 10:33:42

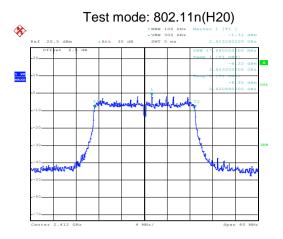
Middle channel



Date: 2.JUL.2017 10:32:46

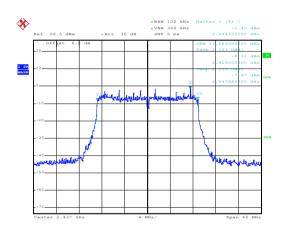
Highest channel





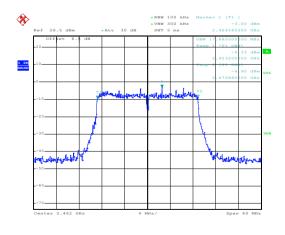
Date: 2.JUL.2017 10:41:24

Lowest channel



Date: 2.JUL.2017 10:42:19

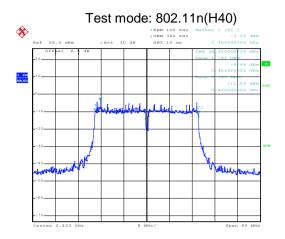
Middle channel



Date: 2.JUL.2017 10:42:39

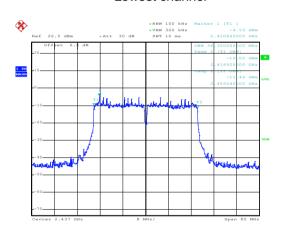
Highest channel





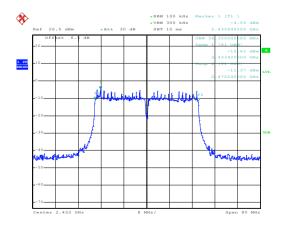
Date: 2.JUL.2017 10:55:16

Lowest channel



Date: 2.JUL.2017 10:54:56

Middle channel



Date: 2.JUL.2017 10:53:52

Highest channel



6.5 Power Spectral Density

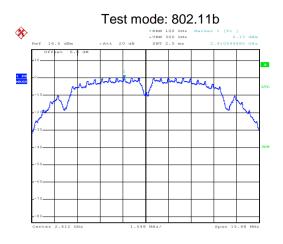
Test Requirement:	FCC Part 15 C Section 15.247 (e)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v0 section 10.2			
Limit:	8dBm			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.6 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data:

MCG5G1CITICITE I						
Test CH		Power Spec	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Elithi (dBill)	resuit
Lowest	0.13	-0.47	-0.35	-2.99		
Middle	-0.70	-0.91	-0.60	-3.60	8.00	Pass
Highest	-1.31	-1.16	-2.51	-4.06		

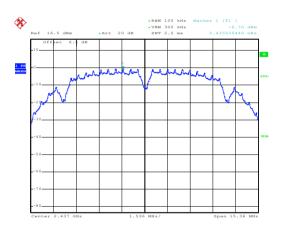


Test plot as follows:



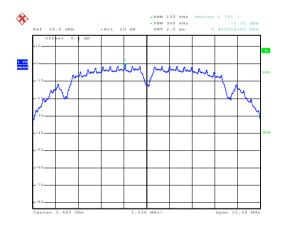
Date: 2.JUL.2017 15:52:50

Lowest channel



Date: 2.JUL.2017 15:57:52

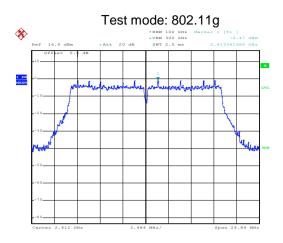
Middle channel



Date: 2.JUL.2017 15:58:19

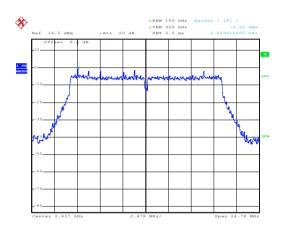
Highest channel





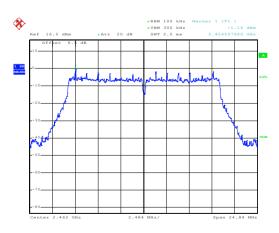
Date: 2.JUL.2017 16:00:26

Lowest channel



Date: 2.JUL.2017 15:59:59

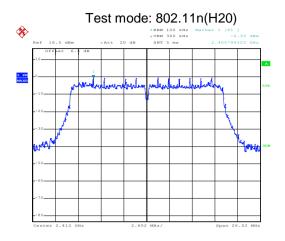
Middle channel



Date: 2.JUL.2017 15:59:11

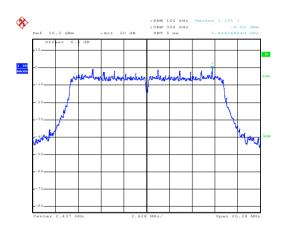
Highest channel





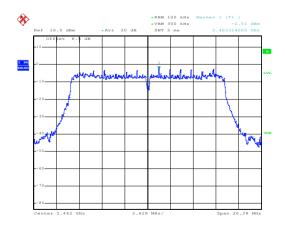
Date: 2.JUL.2017 16:01:09

Lowest channel



Date: 2.JUL.2017 16:01:37

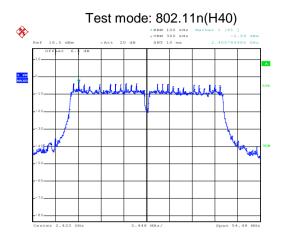
Middle channel



Date: 2.JUL.2017 16:02:10

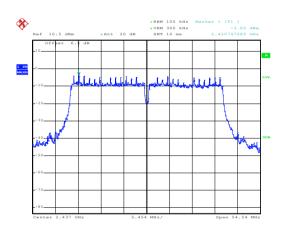
Highest channel





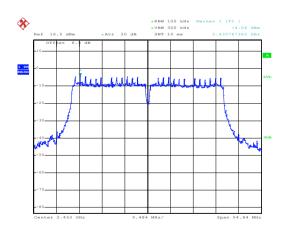
Date: 2.JUL.2017 16:03:47

Lowest channel



Date: 2.JUL.2017 16:03:24

Middle channel



Date: 2.JUL.2017 16:02:46

Highest channel



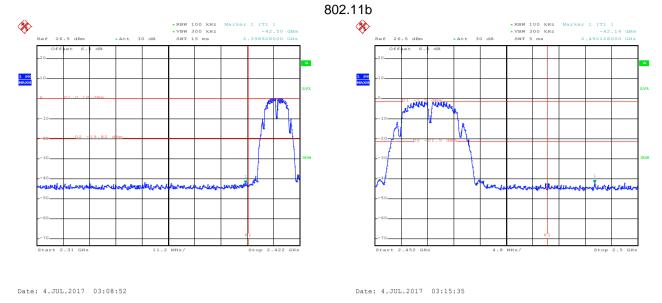
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 13		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test setup:			
	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

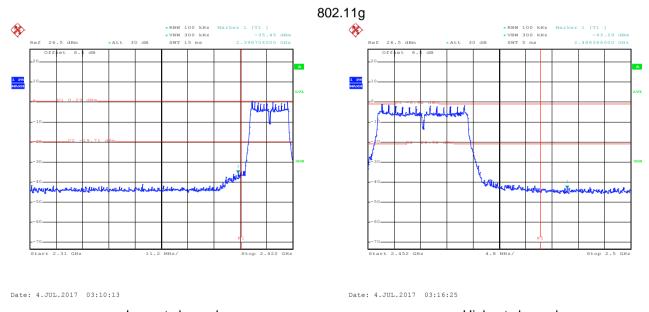


Test plot as follows:



Lowest channel

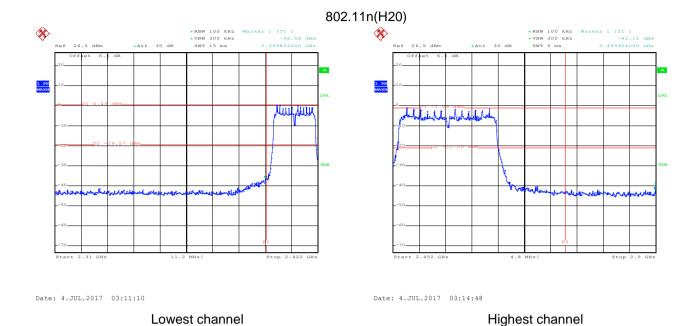
Highest channel

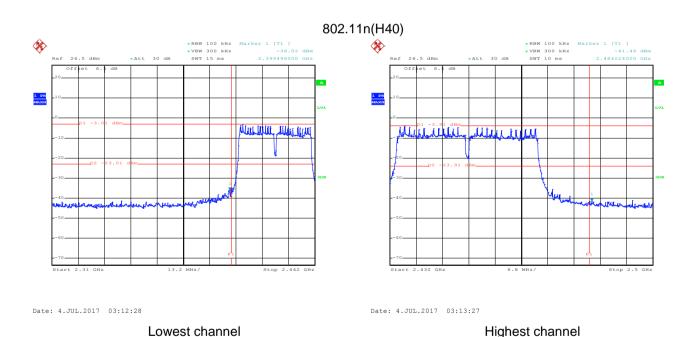


Lowest channel Highest channel











6.6.2 Radiated Emission Method

	. Natiated Linission Method							
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
	Test Method:	ANSI C63.10: 2013 and KDB558074 D01 DTS Meas Guidance v04 section 12.1						
	Test Frequency Range:	2.3GHz to 2.5GHz						
	Test site:	Measurement Distance: 3m						
	Receiver setup:	Frequency	Detector			'BW Remark		
	receiver setup.	Above 1GHz	Peak	1MHz		лНz	Peak Value	
			RMS	1MHz	31	ИHz	Average Value	
	Limit:	Frequency		mit (dBuV/m @3m) Remark				
		Above 1GF	17	54.00			Average Value	
				74.00		Peak Value		
	Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 						
	Test setup:	150cm	AE EUT (Turntable)	Ground Reference Plane	rn Antenna Pre- Pre- Pr	Antenna Tow	ver War	
	Test Instruments:	Refer to section 5.6 for details						
	Test mode:	Refer to section 5.3 for details						
	Test results:	Passed						

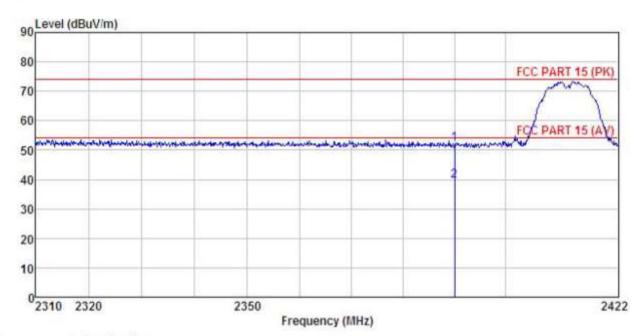




802.11b

Test channel: Lowest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : LTE Outdoor CPE Condition

EUT Model : EG7035L-M1 Test mode : 802.11-B-L mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

Rema

a	rk :	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB/m	₫B	₫B	dBuV/m	dBuV/m	₫B	
	2390.000 2390.000								

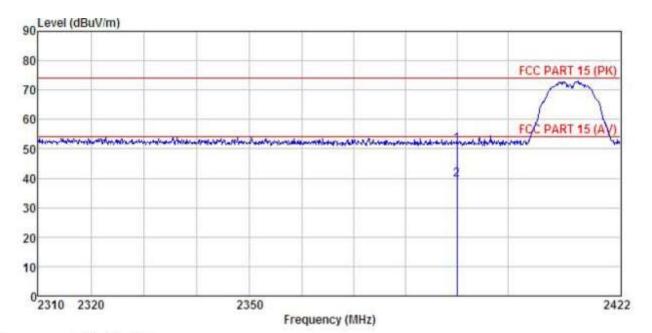
Remark:

1 2

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





: 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

: LTE Outdoor CPE EUT Model : EG7035L-M1 : 802.11-B-L mode Test mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Test Engineer: Carey Huni:55%

Rem

mar	K								
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	d₿	dB	dBuV/m	dBuV/m	−−−dB	
1	2390.000		23.68			51.36			
2	2390.000			4 69					Average

Remark:

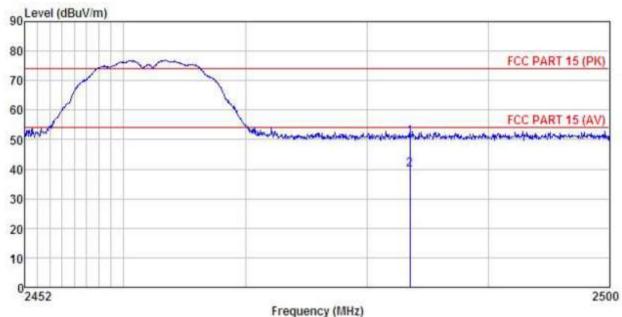
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : LTE Outdoor CPE Condition

EUT Model : EG7035L-M1 Test mode : 802.11-B-H mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

Remark

ıa.	IK :								
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	₫B	₫B	dBuV/m	dBuV/m	dB	
	2483.500	The second secon			0.00				

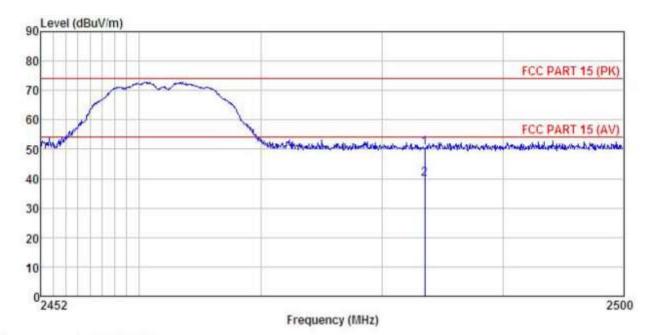
Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







: 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1
Test mode : 802.11-B-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
Remark :

emar	K :	Read	Antenna	Cable	Presmn		Limit	Over	
	Freq		Factor				40,000,000		
	MHz	dBu₹	dB/m	−−−dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	2483.500	21.86	23.70	4.81	0.00	50.37	74.00	-23.63	Peak
2	2483, 500	11.28	23.70	4.81	0.00	39.79	54 00	-14 21	Average

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

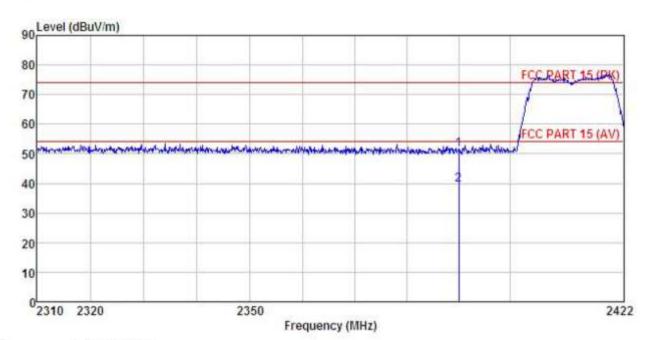




802.11g

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model Test mode : 802.11-G-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

Test Engineer: Carey

Remark

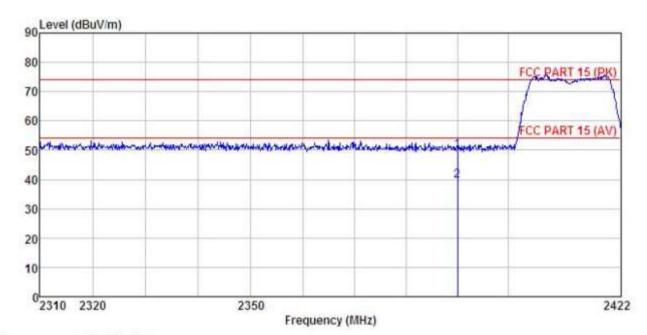
	Freq	ReadAntenna Cable F req Level Factor Loss F							
	MHz	dBu∜	dB/m	dB	₫₿	dBuV/m	dBuV/m	₫B	
1 2	2390.000 2390.000								

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: LTE Outdoor CPE EUT : EG7035L-M1 Model Test mode : 802.11-G-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

Remark

CHAL	CED.	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	dB/m	dB	dB	dBu∜/m	dBuV/m	dB	
1 2	2390.000 2390.000					49.79 39.45			

Remark:

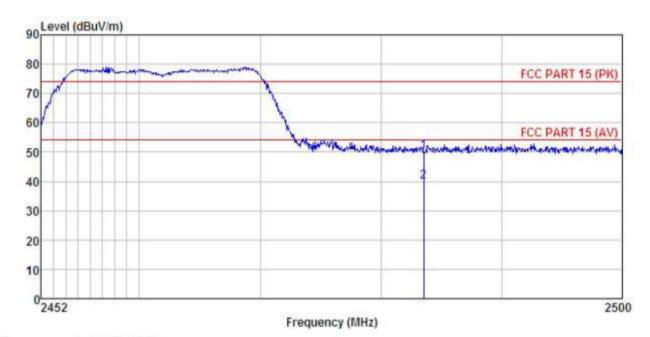
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : LTE Outdoor CPE Condition

EUT Model : EG7035L-M1 Test mode : 802.11-G-H mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Hur

Huni: 55%

Test Engineer: Carey

Remark

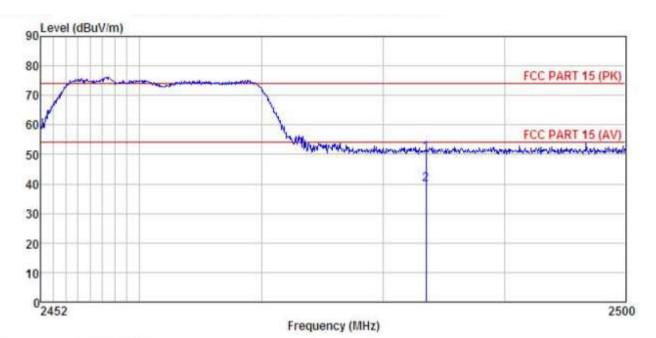
mar									
	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∇	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBu∀/m	dB	
1	2483,500								

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : LTE Outdoor CPE Condition

EUT Model : EG7035L-M1 Test mode : 802.11-G-H mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey Remark :

emai		Read	Ant enna	Cable	Preamn		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	₫₿u₹	dB/m	₫B	dB	dBuV/m	dBuV/m	dB	
1 2	2483, 500 2483, 500								

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

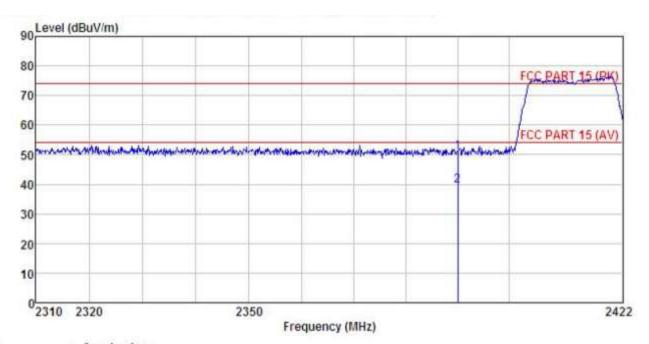




802.11n (H20)

Test channel: Lowest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : LTE Outdoor CPE : EG7035L-M1 Model Test mode : 802.11-N20-L mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

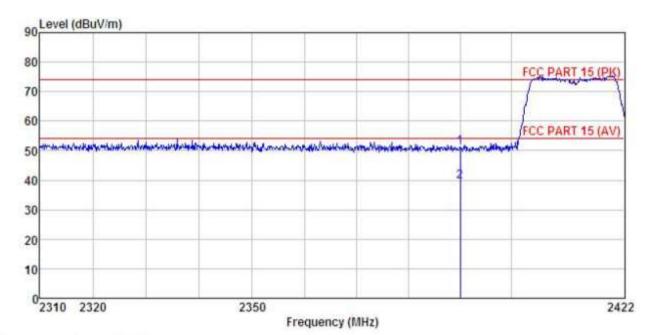
SWELL		Pand		C-11-	Decem		Limit	Orres	
	Freq		Antenna Factor						
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	The second secon				50,96			
2	2390 000	11 11	23 68	4 69	0.00	39 48	54 00	-14.52	Auerage

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.







Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : LTE Outdoor CPE Condition

EUT

Model : EG7035L-M1

Test mode : 802.11-N20-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

Remark

mar	K :								
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∛	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	100000000000000000000000000000000000000		107.7.7.7.7.			74.00		
2	2300 000	11 02	23 68	4 60	0.00	30 45	54 00	-14 EE	Amerane

Remark:

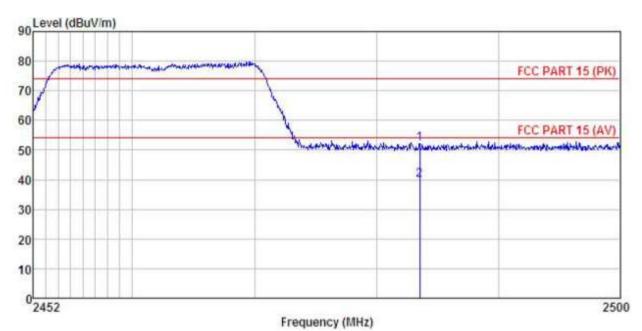
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : LTE Outdoor CPE

Model : EG7035L-M1

Test mode : 802.11-N20-H mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

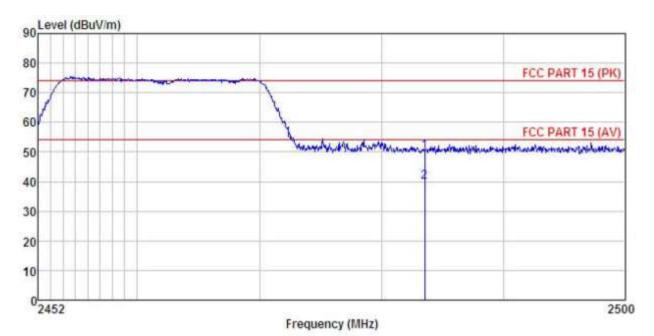
Test Engineer: Carey Remark :

cmar	. A.	-		220245	<u> </u>		90,400,2070	120 3514	
	Freq		Antenna Factor						Remark
	MHz	dBu∜	dB/m	−−−dB	dB	dBuV/m	dBuV/m	dB	
1 2	2483.500 2483.500								

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

EUI : LTE Outdoor CPE

Model : EG7035L-M1

Test mode : 802.11-N20-H mode

Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

Remark

emar	K :								
	-		Antenna				Limit		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark
	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/a	₫B	
1	2483.500								Peak

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

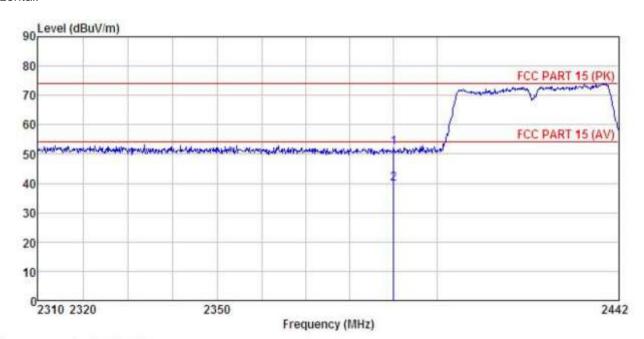




802.11n (H40)

Test channel: Lowest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : LTE Outdoor CPE : EG7035L-M1 Model

Test mode : 802.11-N40-L mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

Remark

-		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	$\overline{}\overline{dB/m}$	₫B	dB	dBu∜/m	dBuV/m	dB	
	2390.000 2390.000								

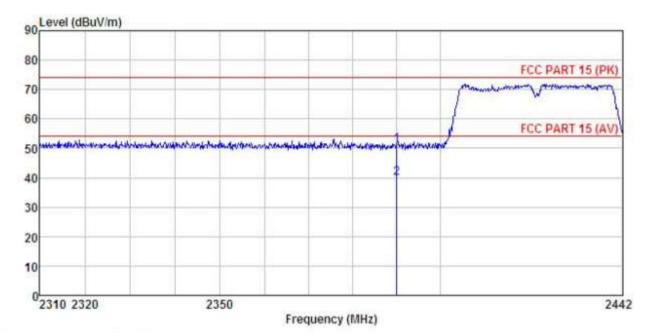
Remark:

1 2

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.







Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : LTE Outdoor CPE Condition

EUT

Model : EG7035L-M1

Test mode : 802.11-N40-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

Test Engineer: Carey

Remark

emai	K :								
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	dB/m	₫₿	₫B	dBuV/m	dBuV/m	<u>dB</u>	
1	2390.000	22.63	23.68	4.69	0.00	51.00	74.00	-23.00	Peak
2	2390,000	11.49	23.68	4.69	0.00	39.86	54.00	-14.14	Average

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

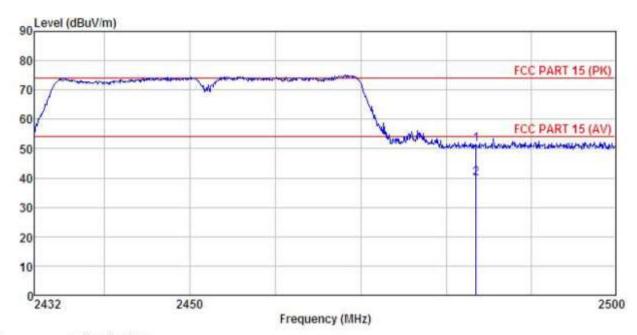
Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





Test channel: Highest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model Test mode : 802.11-N40-H mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

MOL		Read	ånt enna	Cable	Preamn		Limit	Over	
	Freq								Remark
	MHz	dBu∜	dB/m	dB	dB	dBu√/m	dBuV/m	dB	
1	2483.500					51.62			
2	2483 500	11 45	23 70	4 81	0.00	39.96	54.00	-14 N4	Average

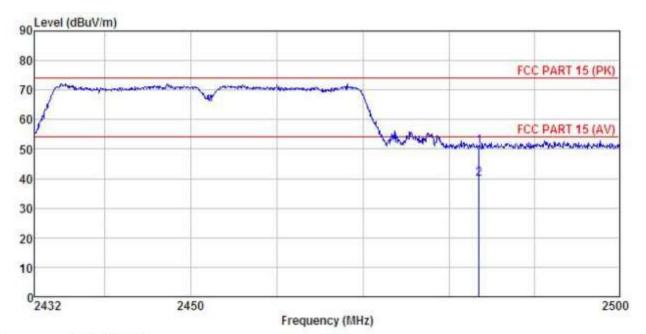
Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

EUT : LTE Outdoor CPE Model : EG7035L-M1 : 802.11-N40-H mode Test mode

Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Test Engineer: Carey Huni:55%

Remark

mar.	K .								
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
12	MHz	dBu₹	dB/m	₫₿	₫B	dBuV/m	dBuV/m	dB	-
1	2483.500	22.25	23.70	4.81	0.00	50.76	74.00	-23.24	Peak
2	2483 500	11 37	23 70	4 81	0.00	30 88	54 00	-14 12	Average

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.



6.7 Spurious Emission

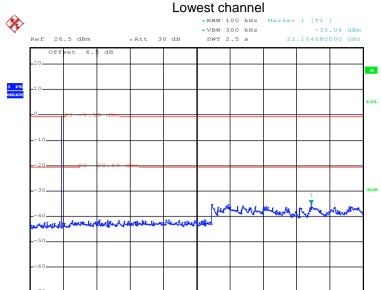
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



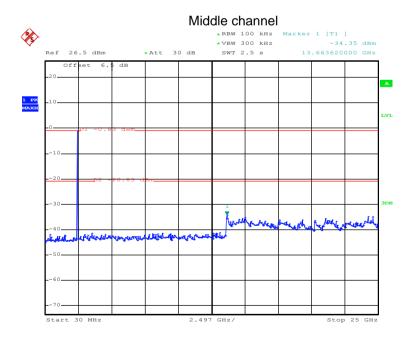
Test plot as follows:

Test mode: 802.11b



Date: 4.JUL.2017 03:21:48

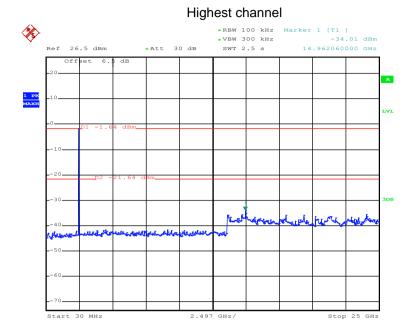
30MHz~25GHz



Date: 4.JUL.2017 03:22:34

30MHz~25GHz





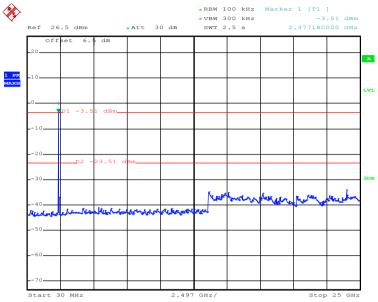
Date: 4.JUL.2017 03:23:15

30MHz~25GHz



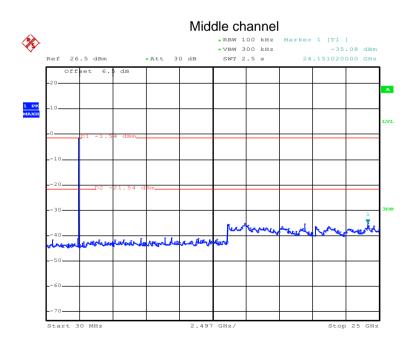
Test mode: 802.11g

Lowest channel



Date: 4.JUL.2017 03:20:41

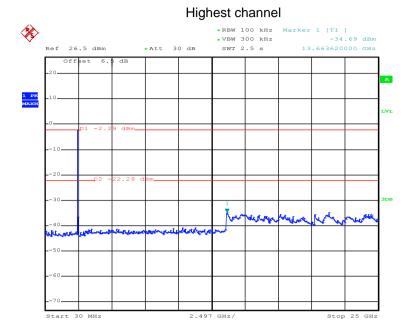
30MHz~25GHz



Date: 4.JUL.2017 03:19:13

30MHz~25GHz



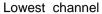


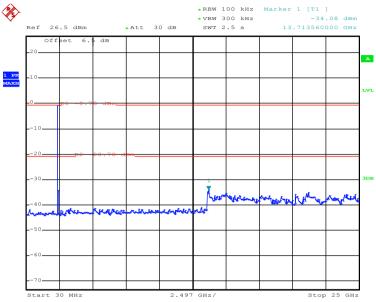
Date: 4.JUL.2017 03:18:09

30MHz~25GHz



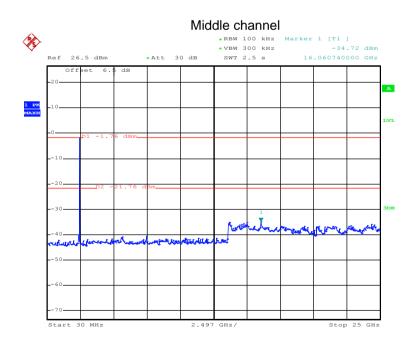
Test mode: 802.11n(H20)





Date: 4.JUL.2017 03:26:54

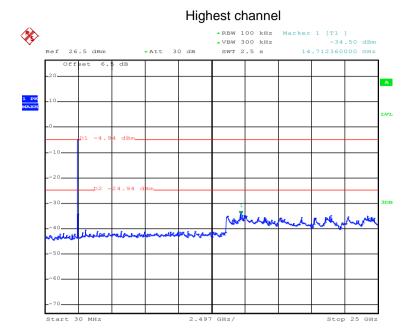
30MHz~25GHz



Date: 4.JUL.2017 03:26:04

30MHz~25GHz



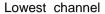


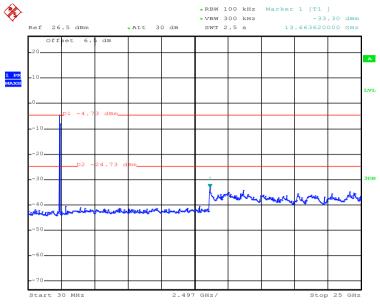
Date: 4.JUL.2017 03:24:45

30MHz~25GHz



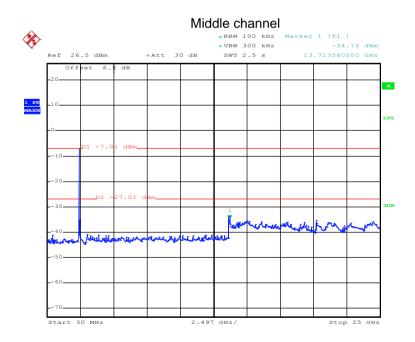
Test mode: 802.11n(H40)





Date: 4.JUL.2017 03:28:03

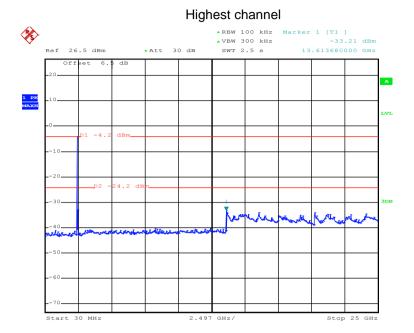
30MHz~25GHz



Date: 4.JUL.2017 03:29:12

30MHz~25GHz





Date: 4.JUL.2017 03:34:46

30MHz~25GHz



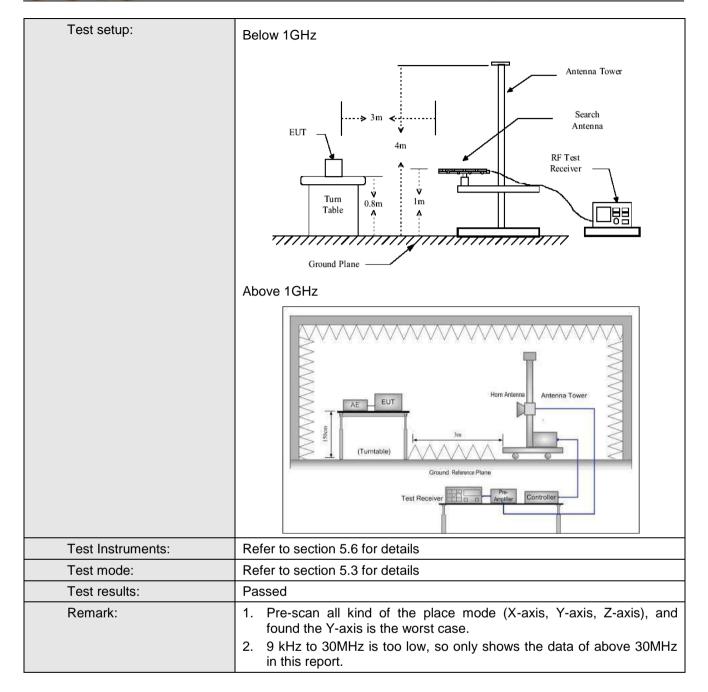


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C S	ection 15	5.209 a	and 15.205				
Test Method:	ANSI C63.10:201	13						
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Dis	stance: 3	m					
Receiver setup:	Frequency	Detect	tor	RBW	V	BW	Remark	
·	30MHz-1GHz	Quasi-p	oeak	120KHz	300)KHz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz		ИHz	Peak Value	
	RMS 1MHz 3MHz A				Average Value			
Limit:	Frequency		Limit	,	m)		Remark	
							uasi-peak Value	
							uasi-peak Value	
	216MHz-960MHz 46.0 Quasi-peak Va 960MHz-1GHz 54.0 Quasi-peak Va							
	Above 1GHz 54.0 Average Va 74.0 Peak Valu						Peak Value	
Test Procedure:	1GHz)/1.5m The table wa highest radia 2. The EUT wa antenna, wh tower. 3. The antenna the ground the Both horizon make the me 4. For each suscase and the meters and to find the m 5. The test-reconspecified Ba 6. If the emission the limit spen of the EUT whave 10dB m.	(above 1) as rotated ation. as set 3 m ich was r a height is o determinatal and v easurements spected e en the an the rota to aximum eiver system andwidth on level of cified, the would be margin wo	GHz) d 360 meters mount s varied in the vertical ent. emissing able work with Moof the en test report ould b	above the gradegrees to degrees to degrees to degrees to degree away from the ed on the top ed from one remaximum valued. The edge are set to Peadaximum Hole EUT in peaking could be ted. Otherwise re-tested of degrees to degree away are to peaking could be ted. Otherwise re-tested of degrees to degree away are to peaking could be ted. Otherwise re-tested of degrees to degree to degrees to degree to degrees to degrees to degrees to degree to degrees to degree	he into of a meter value s of the was a condition of the was a condi	at a 3 sine the erferent variable to four of the enterent	meter chamber. e position of the nce-receiving le-height antenna meters above field strength. enna are set to ed to its worst m 1 meter to 4 es to 360 degrees	





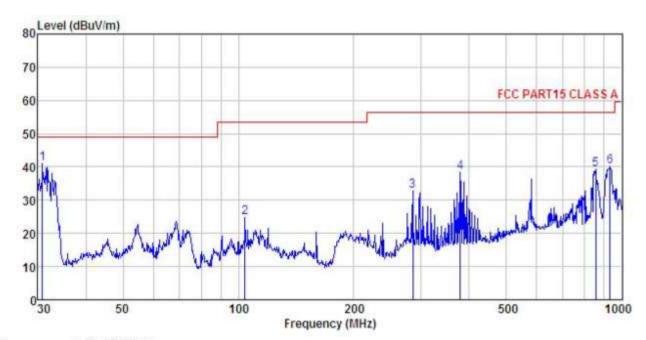






Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS A 3m VULB9163(30M2G) HORIZONTAL : LTE Outdoor CPE Condition

EUT Model : EG7035L-M2 Test mode : WIFI mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

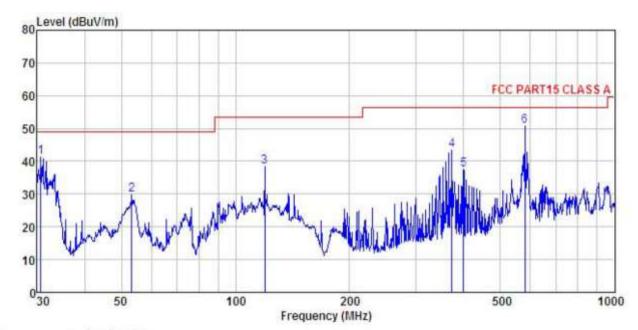
Test Engineer: Carey

Remark

emark									
	Freq		Antenna Factor				Limit Line		
+	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.853	59.09	11.20	0.78	29.97	41.10	49.00	-7.90	QP
1 2 3 4 5	104.170	40.14	12.12	1.99	29.50	24.75	53.50	-28.75	QP
3	284.977	45.50	12.91	2.90	28.48	32.83	56.40	-23.57	QP
4	378.584	49.47	14.58	3.09	28.69	38.45	56.40	-17.95	QP
5	854.025	42.41	20.60	4.15	27.99	39.17	56.40	-17.23	QP
6	932.272	42.77	21.18	4.03	27.78	40.20	56.40	-16.20	QP







Site

: 3m chamber : FCC PART15 CLASS A 3m VULB9163(30M2G) VERTICAL : LTE Outdoor CPE Condition

EUT : EG7035L-M2 Model Test mode : WIFI mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

Ren

mark									
	Freq		Antenna Factor						
-	MHz	dBu∀	dB/m	₫B	dB	dBuV/m	dBuV/m	<u>d</u> B	
1	30.638	59.24	11.20	0.78	29.98	41.24	49.00	-7.76	QP
2	53.318	44.46	13.76	1.32	29.81	29.73	49.00	-19.27	QP
3	119.436	55.07	10.64	2.16	29.39	38.48	53.50	-15.02	QP
4	372.005	54.45	14.52	3.09	28.66	43.40	56.40	-13.00	QP
1 2 3 4 5	399.030	48.32	14.78	3.08	28.77	37.41	56.40	-18.99	QP
6	580, 703	57.77	18, 12	3, 92	29,00	50, 81	56, 40	-5.59	QP





Above 1GHz

Test mode: 80	02.11b		Test char	nnel: Lowest		Remark: Peak			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4824.00	46.51	36.06	6.81	41.82	47.56	74.00	-26.44	Vertical	
4824.00	47.37	36.06	6.81	41.82	48.42	74.00	-25.58	Horizontal	
Test mode: 80	02.11b		Test channel: Lowest			Remark: Ave	erage		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4824.00	36.75	36.06	6.81	41.82	37.80	54.00	-16.20	Vertical	
4824.00	37.54	36.06	6.81	41.82	38.59	54.00	-15.41	Horizontal	

Test mode: 80	02.11b		Test char	nnel: Middle		Remark: Peak			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4874.00	45.93	36.32	6.85	41.84	47.26	74.00	-26.74	Vertical	
4874.00	36.19	36.32	6.85	41.84	37.52	74.00	-36.48	Horizontal	
Test mode: 80	02.11b		Test channel: Middle			Remark: Ave	rage		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4874.00	35.53	36.32	6.85	41.84	36.86	54.00	-17.14	Vertical	
4874.00	36.34	36.32	6.85	41.84	37.67	54.00	-16.33	Horizontal	

Test mode: 80	02.11b		Test char	Test channel: Highest			Remark: Peak			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.		
4924.00	47.52	36.58	6.89	41.86	49.13	74.00	-24.87	Vertical		
4924.00	48.06	36.58	6.89	41.86	49.67	74.00	-24.33	Horizontal		
Test mode: 80	02.11b		Test channel: Highest			Remark: Ave	rage			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.		
4924.00	47.52	36.58	6.89	41.86	49.13	54.00	-4.87	Vertical		
4924.00	38.19	36.58	6.89	41.86	39.80	54.00	-14.20	Horizontal		

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test mode: 80	02.11g		Test channel: Lowest			Remark: Peak			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4824.00	45.72	36.06	6.81	41.82	46.77	74.00	-27.23	Vertical	
4824.00	45.35	36.06	6.81	41.82	46.40	74.00	-27.60	Horizontal	
Test mode: 80	02.11g		Test channel: Lowest			Remark: Ave	rage		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4824.00	35.58	36.06	6.81	41.82	36.63	54.00	-17.37	Vertical	
4824.00	35.59	36.06	6.81	41.82	36.64	54.00	-17.36	Horizontal	

Test mode: 802.11g			Test channel: Middle			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	45.26	36.32	6.85	41.84	46.59	74.00	-27.41	Vertical
4874.00	46.93	36.32	6.85	41.84	48.26	74.00	-25.74	Horizontal
Test mode: 80	02.11g		Test channel: Middle			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	36.78	36.32	6.85	41.84	38.11	54.00	-15.89	Vertical
4874.00	36.79	36.32	6.85	41.84	38.12	54.00	-15.88	Horizontal

Test mode: 8	Test mode: 802.11g		Test channel: Highest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	48.43	36.58	6.89	41.86	50.04	74.00	-23.96	Vertical
4924.00	46.40	36.58	6.89	41.86	48.01	74.00	-25.99	Horizontal
Test mode: 8	02.11g		Test channel: Highest			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	38.73	36.58	6.89	41.86	40.34	54.00	-13.66	Vertical
4924.00	36.54	36.58	6.89	41.86	38.15	54.00	-15.85	Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test mode: 802.11n(H20)			Test channel: Lowest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	46.64	36.06	6.81	41.82	47.69	74.00	-26.31	Vertical
4824.00	45.85	36.06	6.81	41.82	46.90	74.00	-27.10	Horizontal
Test mode: 80	02.11n(H20)		Test char	nnel: Lowest		Remark: Ave	rage	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	36.05	36.06	6.81	41.82	37.10	54.00	-16.90	Vertical
4824.00	35.12	36.06	6.81	41.82	36.17	54.00	-17.83	Horizontal

Test mode: 802.11n(H20)			Test channel: Middle			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	46.83	36.32	6.85	41.84	48.16	74.00	-25.84	Vertical
4874.00	45.89	36.32	6.85	41.84	47.22	74.00	-26.78	Horizontal
Test mode: 80	02.11n(H20)		Test channel: Middle			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	36.43	36.32	6.85	41.84	37.76	54.00	-16.24	Vertical
4874.00	35.26	36.32	6.85	41.84	36.59	54.00	-17.41	Horizontal

Test mode: 802.11n(H20)			Test channel: Highest			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	47.21	36.58	6.89	41.86	48.82	74.00	-25.18	Vertical
4924.00	47.30	36.58	6.89	41.86	48.91	74.00	-25.09	Horizontal
Test mode: 8	02.11n(H20)		Test channel: Highest			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4924.00	37.13	36.58	6.89	41.86	38.74	54.00	-15.26	Vertical
4924.00	37.38	36.58	6.89	41.86	38.99	54.00	-15.01	Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test mode: 802.11n(H40)			Test channel: Lowest			Remark: Peak			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4844.00	45.02	36.06	6.81	41.82	46.07	74.00	-27.93	Vertical	
4844.00	46.00	36.06	6.81	41.82	47.05	74.00	-26.95	Horizontal	
Test mode: 8	est mode: 802.11n(H40)			Test channel: Lowest			Remark: Average		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4844.00	35.27	36.06	6.81	41.82	36.32	54.00	-17.68	Vertical	
4844.00	36.72	36.06	6.81	41.82	37.77	54.00	-16.23	Horizontal	

Test mode: 802.11n(H40)			Test channel: Middle			Remark: Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	45.68	36.32	6.85	41.84	47.01	74.00	-26.99	Vertical
4874.00	45.86	36.32	6.85	41.84	47.19	74.00	-26.81	Horizontal
Test mode: 80	02.11n(H40)		Test char	Test channel: Middle		Remark: Ave	rage	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	35.49	36.32	6.85	41.84	36.82	54.00	-17.18	Vertical
4874.00	35.09	36.32	6.85	41.84	36.42	54.00	-17.58	Horizontal

Test mode: 802.11n(H40)			Test channel: Highest			Remark: Peak			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4904.00	46.92	36.45	6.87	41.85	48.39	74.00	-25.61	Vertical	
4904.00	46.48	36.45	6.87	41.85	47.95	74.00	-26.05	Horizontal	
Test mode: 8	02.11n(H40)		Test channel: Highest			Remark: Average			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.	
4904.00	36.44	36.45	6.87	41.85	37.91	54.00	-16.09	Vertical	
4904.00	36.31	36.45	6.87	41.85	37.78	54.00	-16.22	Horizontal	

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.