

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS15100082903

FCC REPORT

(WIFI)

Applicant: NEXUS TELECOM SERVICES (HK) LIMITED

Address of Applicant: R112, 11/F Hollywood Plaza, Mangkok, Kowloon, Hong Kong

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: GO1005

Trade mark: GOMOBILE

FCC ID: 2AHDFGO1005

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

Date of sample receipt: 10 Nov., 2015

Date of Test: 10 Nov., to 16 Dec., 2015

Date of report issued: 17 Dec., 2015

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	17 Dec., 2015	Original

Cavey (hen
Test Engineer Tested by: Date: 17 Dec., 2015

Reviewed by: Date: 17 Dec., 2015

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:	NEXUS TELECOM SERVICES (HK) LIMITED
Address of Applicant:	R112, 11/F Hollywood Plaza, Mangkok, Kowloon, Hong Kong
Manufacturer:	TEM MOBILE LIMITED
Address of Manufacturer:	No 1708, Cangsong Building, Tairan 6 Road, Futian ShenZhen, China

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	GO1005
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(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:	-1 dBi
AC adapter:	Input:100-240V AC,50/60Hz 0.2A Output: 5.0V DC MAX 1.0A
Power supply:	Rechargeable Li-ion Battery DC3.7V-2600mAh





Operation Frequency each of channel For 802.11b/g/n(H20)							
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	Channel Frequency Channel Frequency Channel Frequency Channel Frequency								
4 2427MHz 7 2442MHz									
5 2432MHz 8 2447MH					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)

	1
Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



Report No: CCIS15100082903

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 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 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 testing. The Registration No. is CNAS L6048.

5.5 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

Tel: +86-755-23118282 Fax: +86-755-23116366

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

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5.6 Test Instruments list

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	03-28-2015	03-28-2016
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2015	03-28-2016
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016
10	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016

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	03-28-2015	03-28-2016	
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016	
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016	
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 -1 dBi.







6.2 Conducted Emission

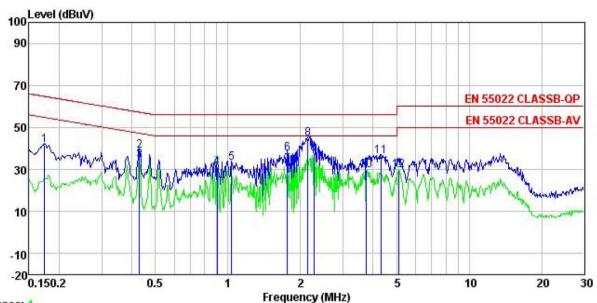
Test Requirement:	FCC Part 15 C Section 15.207				
Test Method:	ANSI C63.4: 2009				
Test Frequency Range:	150 kHz to 30 MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9 kHz, VBW=30 kHz				
Limit:	Fraguency range (MILIT)	Limit (d	dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	* Decreases with the logarithm	60	50		
Test procedure	 The E.U.T and simulators a line impedance stabilize 50ohm/50uH coupling im The peripheral devices at through a LISN that provi with 50ohm termination. (test setup and photograp) Both sides of A.C. line an interference. In order to fi positions of equipment ar changed according to AN measurement. 	s are connected to the ation network (L.I.S.N.) pedance for the measure also connected to thicked a 50ohm/50uH co (Please refer to the blowns). e checked for maximum emisted all of the interface co ISI C63.4: 2009 on cor), which provides a uring equipment. The main power pupling impedance back diagram of the m conducted asion, the relative cables must be		
Test setup:	LISN 40cm		ter — AC power		
Test Uncertainty:			±3.28 dB		
Test Instruments:	Refer to section 5.6 for details	3			
Test mode:	Refer to section 5.3 for details	3			
Test results:	Passed				
	·	·	·		

Measurement Data





Neutral:



Trace: 1

Site

: CCIS Shielding Room : EN 55022 CLASSB-QP LISN NEUTRAL Condition

Job No. : 829RF

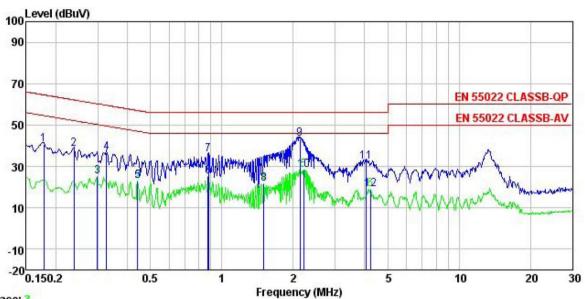
: MOBILE PHONE

Model : G01005
Test Mode : WIFI mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Carey
Remark :

Kemark	•	M299 . 50	5250100	2012		Mark Hall	100		
	Freq	Read	LISN Factor	Cable Loss		Limit Line	Over	Remark	
	rroq	LCVCI	ractor	1000	LOVEL	Line	LIMIC	ROMAIR	
	MHz	dBu∀	₫B	d₿	dBu₹	dBu∀	dB		
1	0.174	30.46	0.25	10.77	41.48	64.77	-23.29	QP	
1 2 3	0.431	27.89	0.26	10.73	38.88	57.24	-18.36	QP	
3	0.431	23.47	0.26	10.73	34.46	47.24	-12.78	Average	
4	0.904	19.72	0.21	10.84	30.77	46.00	-15.23	Average	
5	1.037	21.94	0.22	10.87	33.03	56.00	-22.97	QP	
6	1.762	26.50	0.28	10.94	37.72	56.00	-18.28	QP	
4 5 6 7 8 9	1.762	21.16	0.28	10.94	32.38	46.00	-13.62	Average	
8	2.144	33.33	0.29	10.95	44.57	56.00	-11.43	QP	
9	2.273	26.25	0.29	10.95	37.49	46.00	-8.51	Average	
10	3.740	18.47	0.29	10.90	29.66	46.00	-16.34	Average	
11	4.315	24.96	0.29	10.88	36.13	56.00	-19.87	QP	
12	5.112	18.53	0.28	10.85	29.66	50.00	-20.34	Average	



Line:



Trace: 3

Site

: CCIS Shielding Room : EN 55022 CLASSB-QP LISN LINE Condition

829RF Job No. MOBILE PHONE EUT Model : GO1005 Test Mode : WIFI mode

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

Test Engineer: Carey

Remark

Vellark.	· Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	<u>d</u> B	<u>d</u> B	dBu₹	dBu∇	<u>d</u> B	
1	0.178	29.63	0.28	10.77	40.68	64.59	-23.91	QP
2	0.238	27.30	0.27	10.75	38.32	62.17	-23.85	QP
3	0.299	14.31	0.26	10.74	25.31	50.28	-24.97	Average
4	0.327	25.81	0.27	10.73	36.81	59.53	-22.72	QP
4 5 6 7 8 9	0.442	12.04	0.28	10.74	23.06	47.02	-23.96	Average
6	0.876	14.22	0.24	10.83	25.29	46.00	-20.71	Average
7	0.880	24.77	0.24	10.83	35.84	56.00	-20.16	QP
8	1.503	10.51	0.26	10.92	21.69	46.00	-24.31	Average
9	2.133	32.15	0.26	10.95	43.36	56.00	-12.64	QP
10	2.213	17.21	0.26	10.95	28.42	46.00	-17.58	Average
11	4.049	21.27	0.28	10.89	32.44	56.00	-23.56	QP
12	4.224	7.73	0.28	10.88	18.89	46.00	-27.11	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 C63.10:2009 and KDB558074v03r03 section 9.2.2		
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		

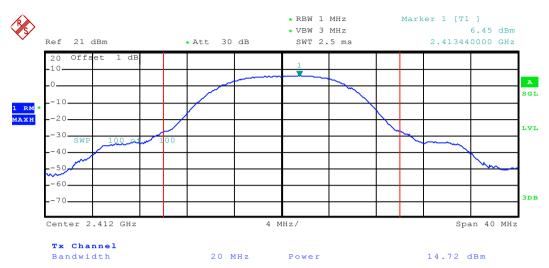
Measurement Data

Test CH	Ma	ximum Conduct	Limit(dBm)	Result		
1031 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBin)	Nesult
Lowest	14.72	11.10	11.21	9.92		
Middle	14.78	13.62	13.76	12.96	30.00	Pass
Highest	14.00	10.99	11.00	10.05		

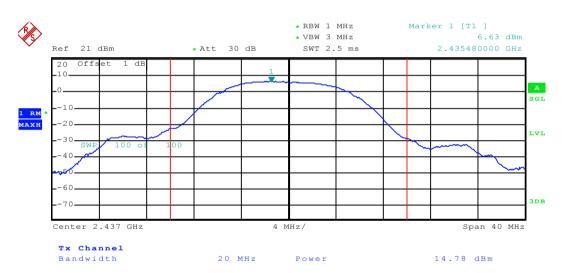
Test plot as follows:



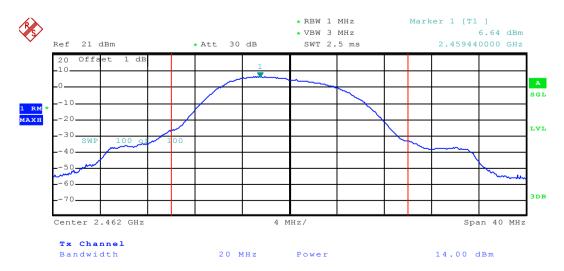
Test mode: 802.11b



Lowest channel



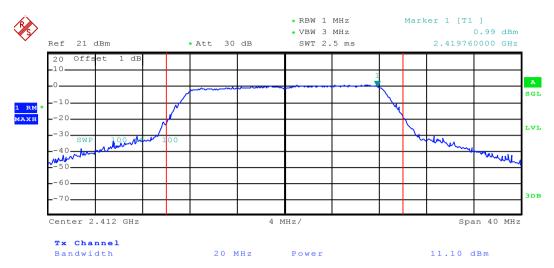
Middle channel



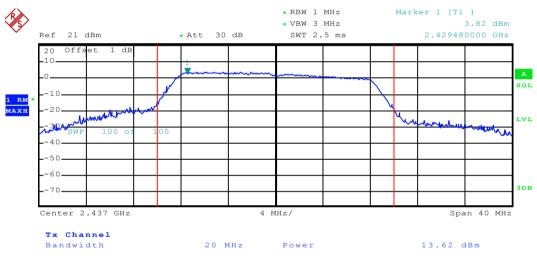
Highest channel



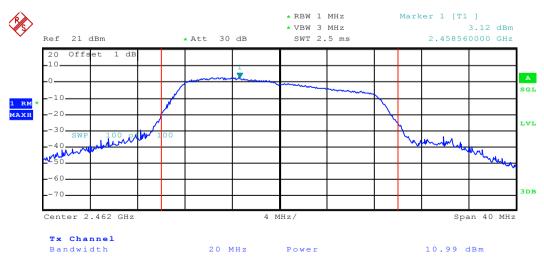
Test mode: 802.11g



Lowest channel



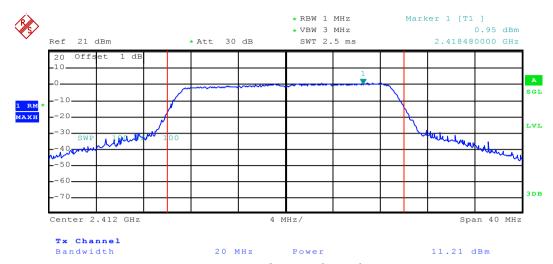
Middle channel



Highest channel



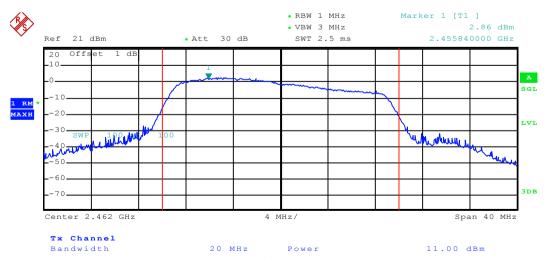
Test mode: 802.11n(H20)



Lowest channel



Middle channel



Highest channel



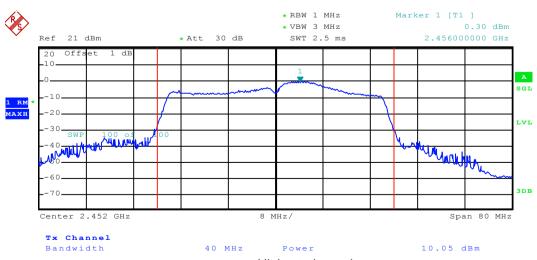
Test mode: 802.11n(H40)



Lowest channel



Middle channel





6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2009 and KDB558074v03r03 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		
Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(Kriz)	Nesuit
Lowest	10.24	16.56	17.60	32.80		
Middle	10.24	15.88	16.56	36.16	>500	Pass
Highest	10.12	10.88	11.40	29.16		

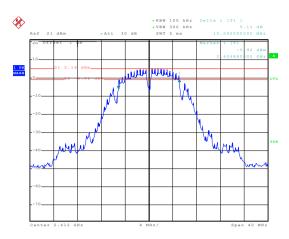
Test CH		99% Occupy	Limit(kHz)	Result		
	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Liiiii(Ki iz)	Nesuit
Lowest	12.80	16.56	17.76	35.84		
Middle	13.20	16.80	17.76	36.16	N/A	N/A
Highest	12.56	16.32	17.44	35.68		

Test plot as follows:



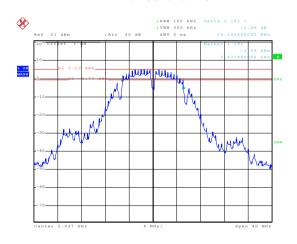
6dB EBW

Test mode: 802.11b



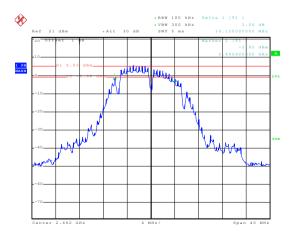
Date: 9.NOV.2015 23:29:14

Lowest channel



Date: 9.NOV.2015 23:30:53

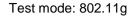
Middle channel

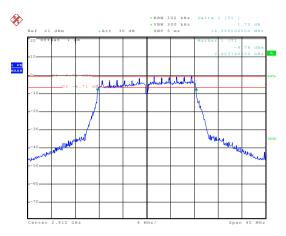


Date: 9.NOV.2015 23:31:37

Highest channel

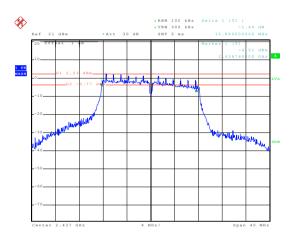






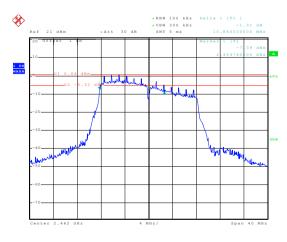
Date: 9.NOV.2015 23:45:11

Lowest channel



Date: 9.NOV.2015 23:45:58

Middle channel

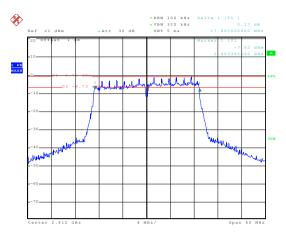


Date: 9.NOV.2015 23:46:38

Highest channel

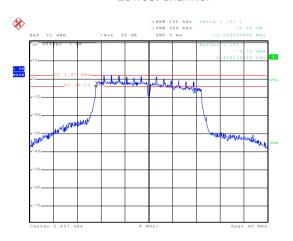


Test mode: 802.11n(H20)



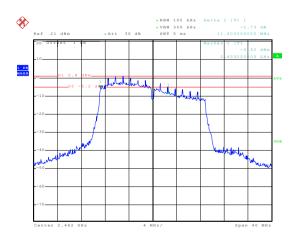
Date: 9.NOV.2015 23:38:53

Lowest channel



Date: 9.NOV.2015 23:39:26

Middle channel

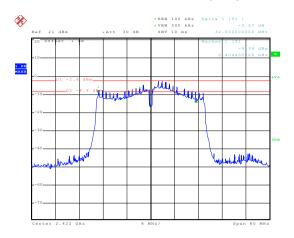


Date: 9.NOV.2015 23:40:09

Highest channel

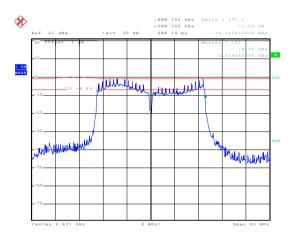


Test mode: 802.11n(H40)



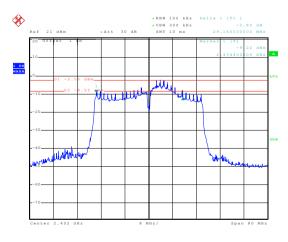
Date: 9.NOV.2015 23:36:45

Lowest channel



Date: 9.NOV.2015 23:37:35

Middle channel



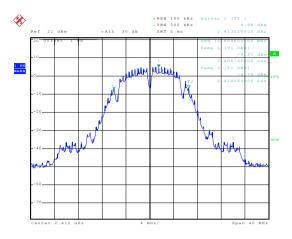
Date: 9.NOV.2015 23:38:08

Highest channel



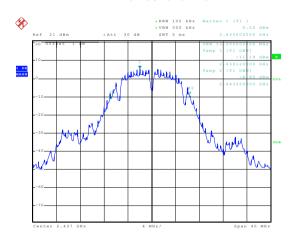
99% OBW

Test mode: 802.11b



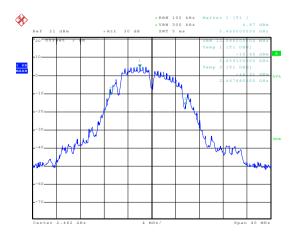
Date: 9.NOV.2015 23:29:36

Lowest channel



Date: 9.NOV.2015 23:30:21

Middle channel

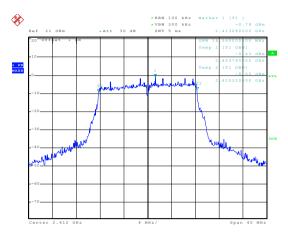


Date: 9.NOV.2015 23:31:48

Highest channel

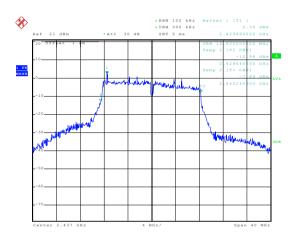


Test mode: 802.11g



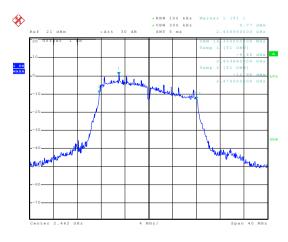
Date: 9.NOV.2015 23:47:33

Lowest channel



Date: 9.NOV.2015 23:47:19

Middle channel

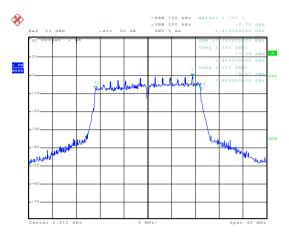


Date: 9.NOV.2015 23:46:59

Highest channel

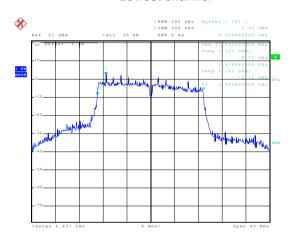


Test mode: 802.11n(H20)



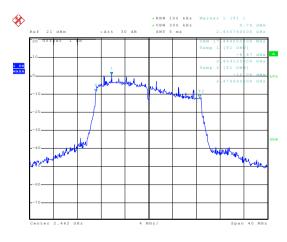
Date: 9.NOV.2015 23:47:49

Lowest channel



Date: 9.NOV.2015 23:48:09

Middle channel

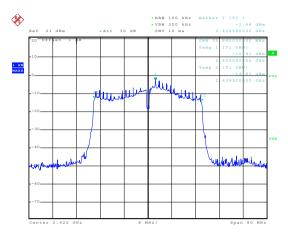


Date: 9.NOV.2015 23:48:24

Highest channel

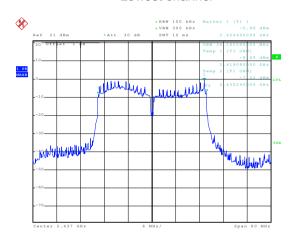


Test mode: 802.11n(H40)



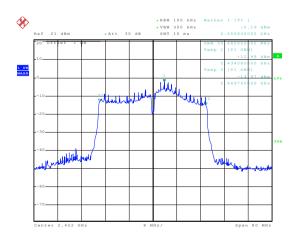
Date: 9.NOV.2015 23:36:19

Lowest channel



Date: 9.NOV.2015 23:35:31

Middle channel



Date: 9.NOV.2015 23:36:07

Highest channel



6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2009 and KDB558074v03r03 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		

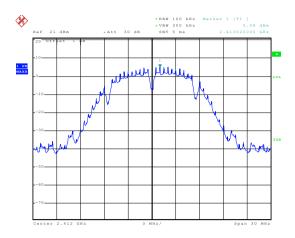
Measurement Data

Test CH		Power Spec	Limit(dBm)	Result		
1031 011	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBin)	resuit
Lowest	5.08	-0.34	-0.34	-2.56		
Middle	5.65	2.15	2.21	-1.50	8.00	Pass
Highest	5.15	-0.00	0.69	-2.56		

Test plot as follows:

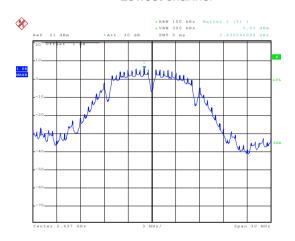


Test mode: 802.11b



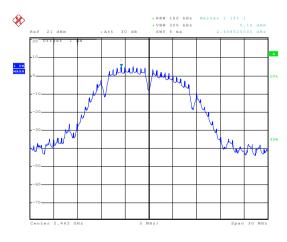
Date: 9.NOV.2015 23:29:50

Lowest channel



Date: 9.NOV.2015 23:30:06

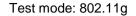
Middle channel

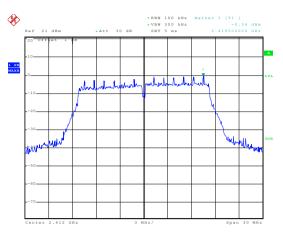


Date: 9.NOV.2015 23:32:07

Highest channel

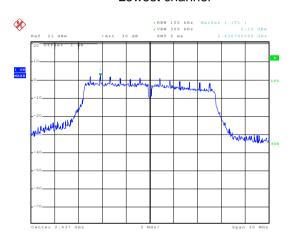






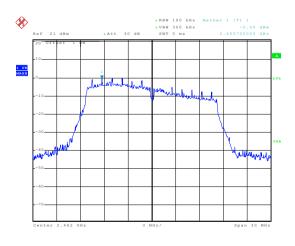
Date: 9.NOV.2015 23:32:26

Lowest channel



Date: 9.NOV.2015 23:33:51

Middle channel

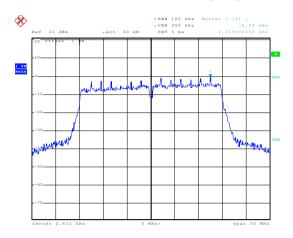


Date: 9.NOV.2015 23:34:03

Highest channel

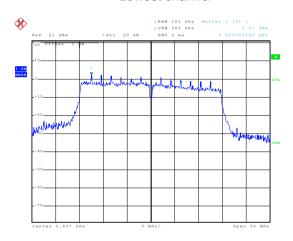


Test mode: 802.11n(H20)



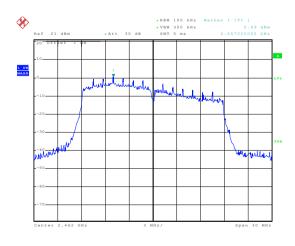
Date: 9.NOV.2015 23:32:41

Lowest channel



Date: 9.NOV.2015 23:33:35

Middle channel

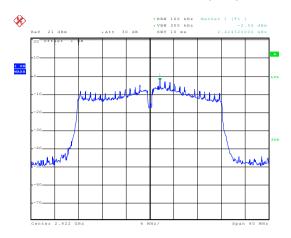


Date: 9.NOV.2015 23:34:24

Highest channel

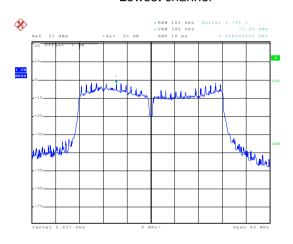


Test mode: 802.11n(H40)



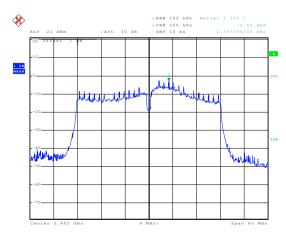
Date: 9.NOV.2015 23:33:01

Lowest channel



Date: 9.NOV.2015 23:33:14

Middle channel



Date: 9.NOV.2015 23:34:40

Highest channel





6.6 Band Edge

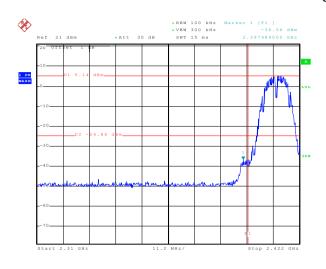
6.6.1 Conducted Emission Method

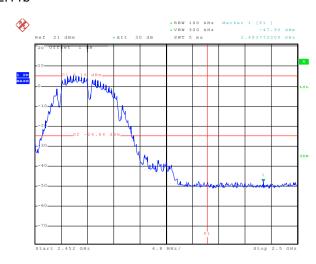
Test Requirement:	FCC Part 15 C Section 15.247 (d)		
Test Method:	ANSI C63.10:2009 and KDB558074v03r03 section 13		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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:









Date: 9.NOV.2015 23:26:01

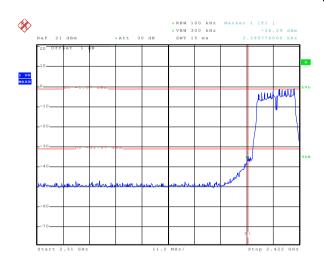
Lowest channel

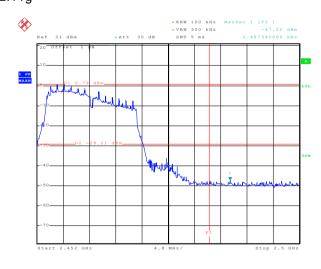
Highest channel

802.11g

Date: 9.NOV.2015 23:26:36

Date: 9.NOV.2015 23:27:19





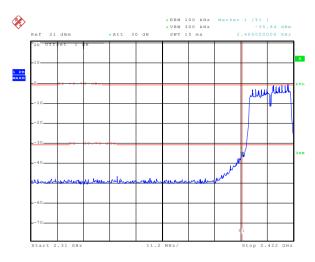
Date: 9.NOV.2015 23:25:29

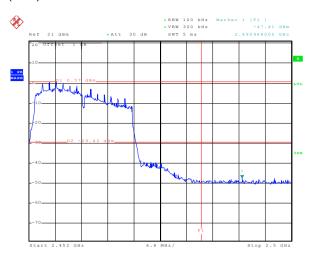
Lowest channel

Highest channel



802.11n(H20)





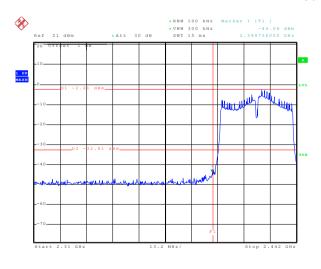
Date: 9.NOV.2015 23:24:57

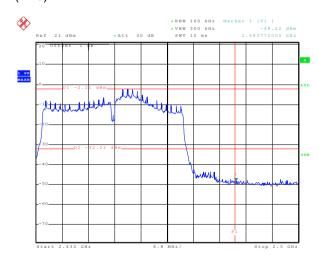
Lowest channel

Date: 9.NOV.2015 23:27:54

Highest channel

802.11n(H40)





Date: 9.NOV.2015 23:23:34

Lowest channel

Date: 9.NOV.2015 23:24:11

Highest channel



6.6.2 Radiated Emission Method

 Itadiated Lillission We									
Test Requirement:	ement: FCC Part 15 C Section 15.209 and 15.205								
Test Method: ANSI C63.10: 2009 and KDB 558074v03r03 section 12.1									
Test Frequency Range:	st Frequency Range: 2.3GHz to 2.5GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:									
	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limeit		RMS	1MHz	3MHz	Average Value				
Limit:	Frequency		Limit (dBuV/m @3m)		Remark				
	Above 1GHz		54.00		Average Value				
	Above 1GHz 74.00				Peak Value le 0.8 meters above				
Test setup:	 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. 								
	Antenna Tower AE EUT Horn Anlenna Antenna Tower Ground Reference Plane Test Receiver Controller								
Test Instruments: Refer to section 5.6 for details									
Test mode:	Refer to section 5.3 for details								
Test results:	Passed								
	-	•	•	-					

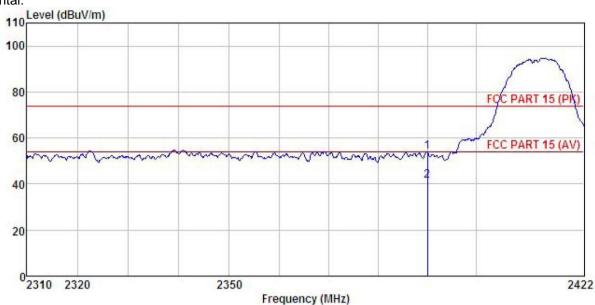




802.11b

Test channel: Lowest

Horizontal:



Site

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

EUT : MOBILE PHONE

Model : GO1005 : 802.11B-L mode Test mode Power Rating : AC 120V/60Hz

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

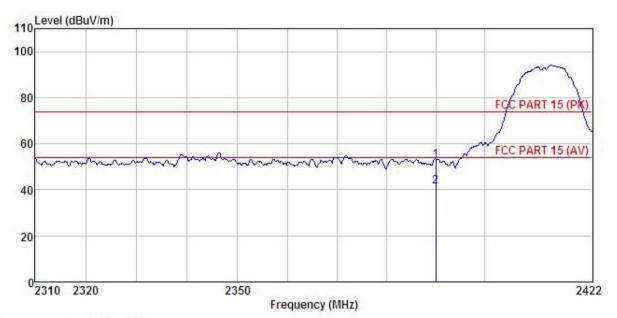
REMARK

	04957	Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-	MHz	₫₿uѶ			<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>		_
	2390.000 2390.000				0.00 0.00					

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- 2. 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

: MOBILE PHONE EUT

Model : GO1005

Test mode : 802.11B-L mode Power Rating : AC 120V/60Hz

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

REMARK

М	. AA									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	$^{}\overline{dB}/\overline{m}$	<u>d</u> B	<u>d</u> B	dBuV/m	$\overline{dBuV/m}$	<u>d</u> B		
	2390.000				0.00					
	2390.000	7.28	27.58	6.63	0.00	41.49	54.00	-12.51	Average	

Remark:

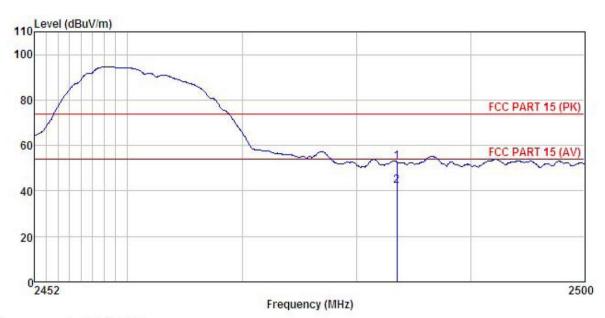
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

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

EUT : MOBILE PHONE

: GO1005 Model

Test mode: 802.11B-H mode
Power Rating: AC 120V/60Hz
Environment: Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

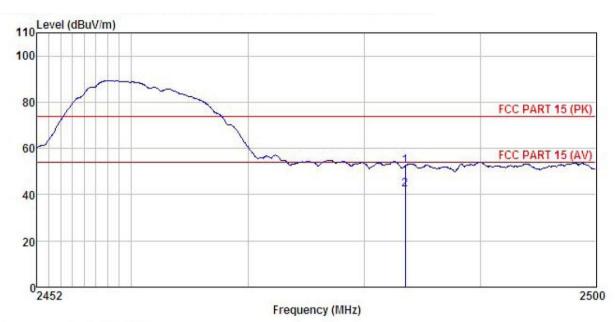
ч	IN.	:								
		Read	lAnt enna	Cable	Preamp		Limit	Over		
	Fre	q Level	l Factor	Loss	Factor	Level	Line	Limit	Remark	
	MH	z dBu	7 <u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>d</u> B		-
			3 27.52 5 27.52						Peak Average	

Remark:

1 2

- 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.





Site

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

EUT : MOBILE PHONE

Model : GO1005
Test mode : 802.11B-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

MΓ	TV :									
	Freq		Antenna Factor						Remark	
	MHz	dBu₹	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
	2483.500					PARTICIPATION OF THE PROPERTY OF	74.00			
	2483.500	1.12	21.02	0.00	0.00	42.09	54.00	-11.91	Average	

Remark:

1 2

- 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.

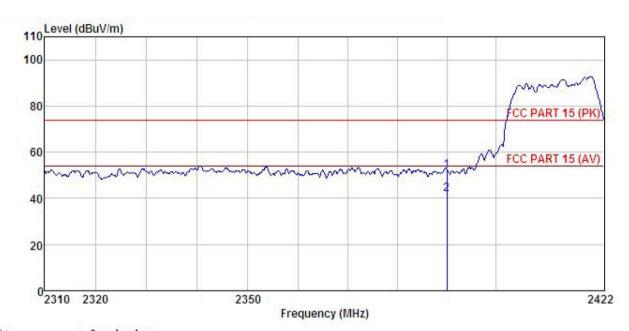




802.11g

Test channel: Lowest

Horizontal:



Site : 3m chamber

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

EUT : MOBILE PHONE Model : GO1005

Test mode : 802.11G-L mode

Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK :

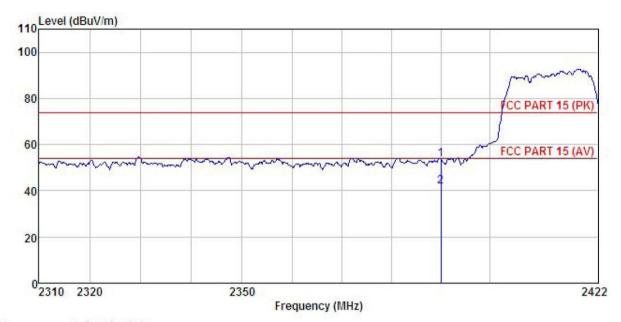
	Freq		Antenna Factor						
	MHz	dBu∜		<u>ab</u>	<u>d</u> B	dBuV/m	$\overline{dBuV/m}$	<u>ab</u>	
1	2390.000 2390.000								

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.







Site

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

EUT

: GO1005 Model

: 802.11G-L mode Test mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

REMARK

 THE STATE OF THE S	•				
Fre	e a	Antenna Factor		Limit Line	
	Īz	 <u>dB</u> /m	 	 	
		27.58 27.58			Peak Average

Remark:

1 2

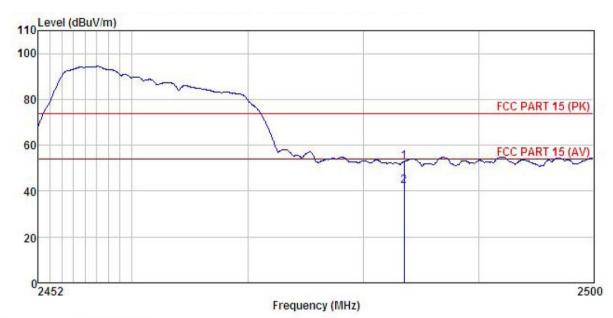
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

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

EUT

: GO1005 Model

Test mode : 802.11G-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK

REMARK

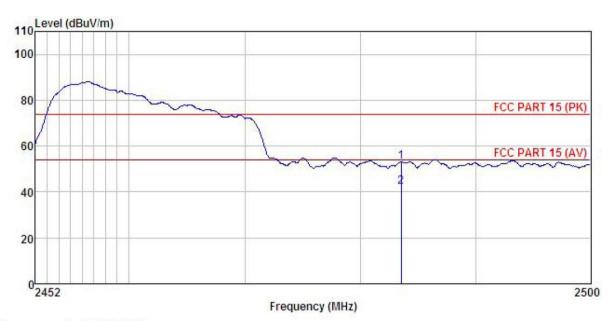
THA					
	Frea	Antenna Factor			
-	MHz	 	 	 	
	2483.500 2483.500				

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 : MOBILE PHONE Condition

EUT

Model : GO1005

Test mode : 802.11G-H mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey REMARK :

"HITTLY										
	Freq		Antenna Factor						Remark	
	MHz	dBu₹	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m	$\overline{dBuV/m}$	<u>d</u> B		
1 2	2483.500 2483.500									

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.

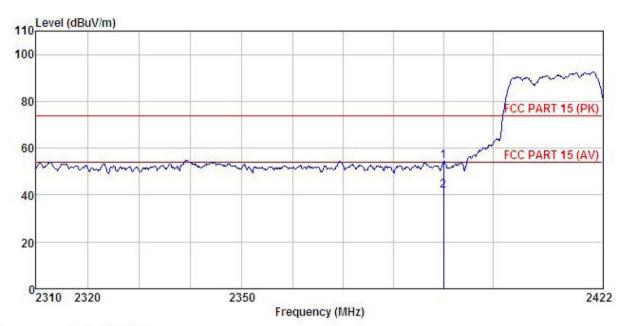




802.11n (H20)

Test channel: Lowest

Horizontal:



Site 3m chamber

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

EUT : MOBILE PHONE

Model : GO1005

: 802.11N20-L mode Test mode

Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

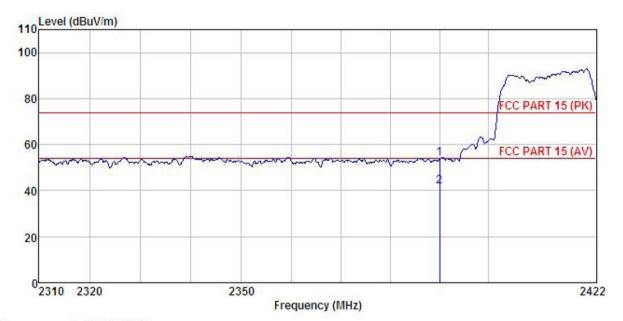
ran	n :									
	Freq		Antenna Factor							
	MHz	—dBu₹	— <u>d</u> B/m	āB	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B	<u></u>	_
	2390.000				0.00					
	2390.000	1.02	21.00	o. o.	0.00	41.00	54.00	-12.11	Average	

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.







Site

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

EUT

Model : GO1005

Test mode : 802.11N20-L mode Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK

			Antenna Factor						Remark
-	MHz	—dBu∜	$\overline{dB/m}$	<u>d</u> B	<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
	2390.000 2390.000								

Remark:

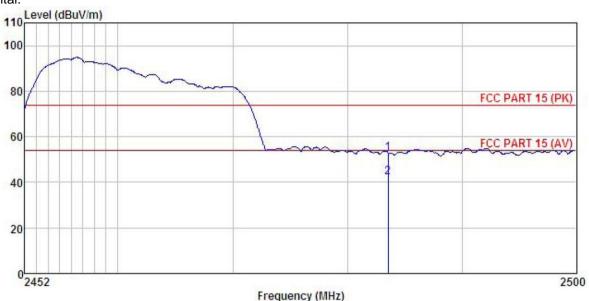
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

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

: MOBILE PHONE EUT Model : GO1005

Test mode : 802.11N2O-H mode Power Rating : AC 120V/60Hz

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

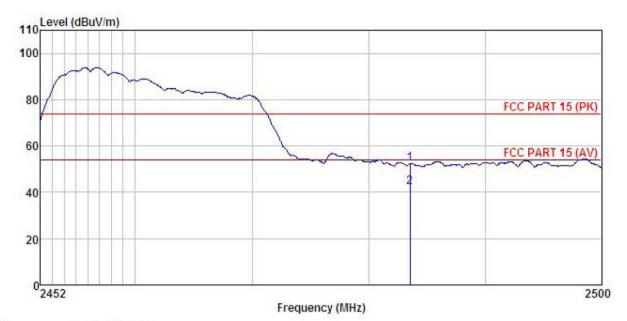
			Antenna Factor						
-	MHz	dBu∇	<u>d</u> B/m	d <u>B</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
	2483.500 2483.500								

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- 2. 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 : MOBILE PHONE Condition

EUT

: GO1005 Model

: 802.11N20-H mode Power Rating: AC 120V/60Hz
Environment: Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK: Test mode

DT.									
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	—dBu∜		<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
	2483.500	18.13	27.52	6.85	0.00	52.50	74.00	-21.50	Peak
)	2483 500	7 74	27 52	6 85	0.00	42 11	54 00	-11 89	Amerage

1 2

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

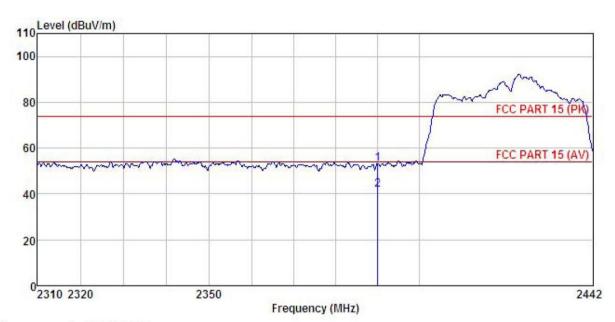




802.11n (H40)

Test channel: Lowest

Horizontal:



Site

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

: MOBILE PHONE EUT Model : GO1005

: 802.11N40-L mode Test mode Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55% Test Engineer: Carey

REMARK

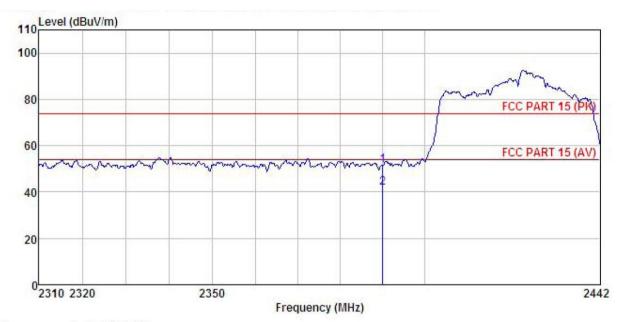
			Antenna Factor						Remark
	MHz	dBu∇	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1 2	2390.000 2390.000					53.32 41.90			

Remark:

- 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.







Site

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

EUT

Model : GO1005

Test mode : 802.11N40-L mode Power Rating : AC 120V/60Hz

Environment: Temp: 25.5°C Huni: 55%

Test Engineer: Carey

REMARK

шшч	977		Antenna Factor					
-	MHz	dBu₹	<u>dB</u> /m	 	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
	2390.000 2390.000							

Remark:

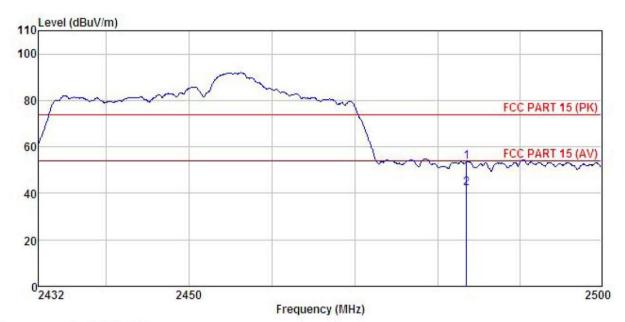
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

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

EUT : MOBILE PHONE

: GO1005 Model

: 802.11N40-H mode Test mode Power Rating : AC 120V/60Hz

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

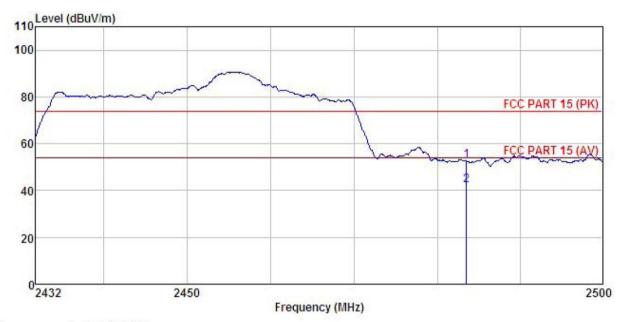
M :									
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	—dBu∇		<u>d</u> B	<u>ab</u>	dBu√/m	dBuV/m	<u>dB</u>		_
2483.500									
2483.500	7.83	27.52	6.85	0.00	42.20	54.00	-11.80	Average	

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 : MOBILE PHONE Condition

EUT

Model : GO1005

: 802.11N40-H mode Test mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

REMARK

	Freq		Antenna Factor						
-	MHz	dBu∜	dB/m	dB	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	dB	
	2483.500 2483.500								

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.



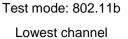
6.7 Spurious Emission

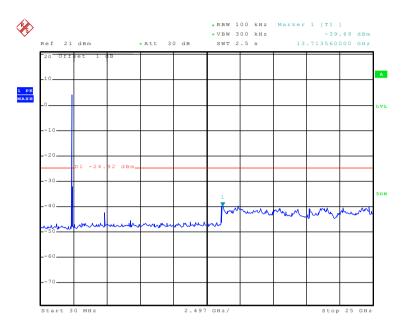
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2009 and KDB558074 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.						
Test setup:							
	Spectrum Analyzer						
	E.U.T						
	Non-Conducted Table						
	C IN C DI						
	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:



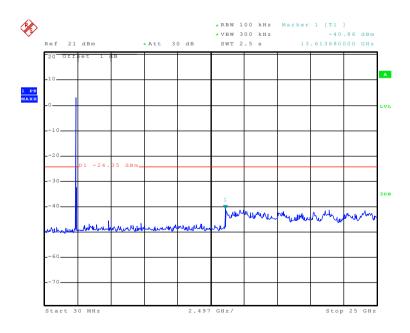




Date: 10.NOV.2015 00:00:00

30MHz~25GHz

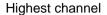
Middle channel

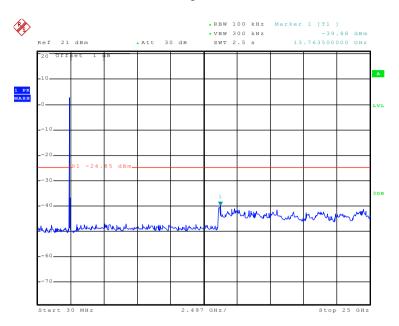


Date: 10.NOV.2015 00:00:16

30MHz~25GHz





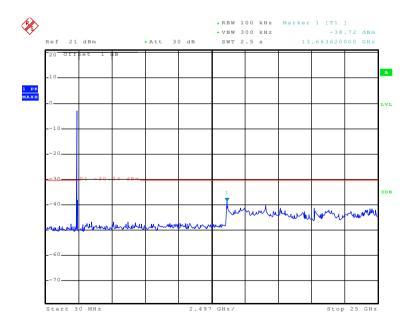


Date: 10.NOV.2015 00:00:37

30MHz~25GHz

Test mode: 802.11g

Lowest channel

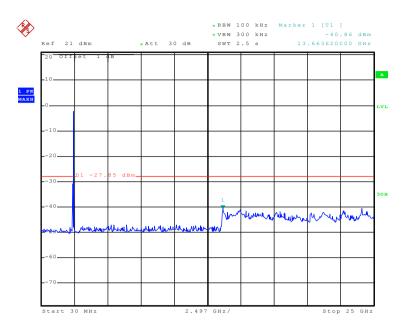


Date: 10.NOV.2015 00:00:53

30MHz~25GHz



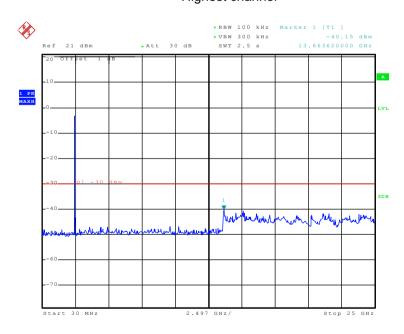
Middle channel



Date: 10.NOV.2015 00:01:08

30MHz~25GHz

Highest channel

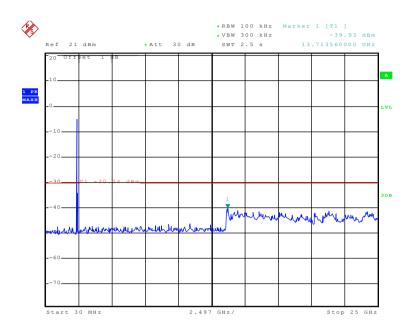


Date: 10.NOV.2015 00:01:22

30MHz~25GHz



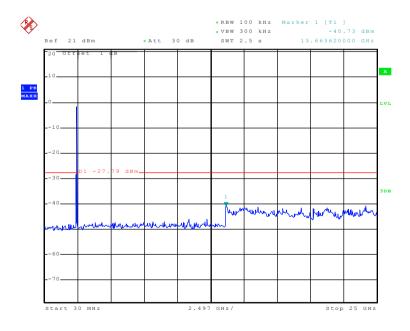
Test mode: 802.11n(H20) Lowest channel



Date: 10.NOV.2015 00:01:39

30MHz~25GHz

Middle channel

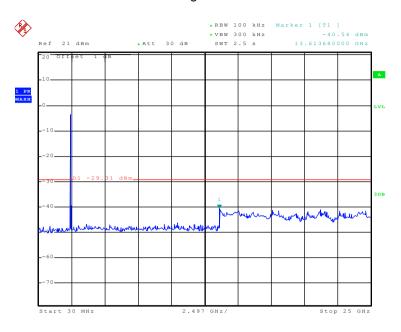


Date: 10.NOV.2015 00:01:58

30MHz~25GHz



Highest channel

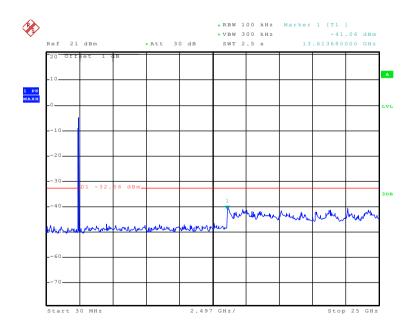


Date: 10.NOV.2015 00:02:22

30MHz~25GHz

Test mode: 802.11n(H40)

Lowest channel

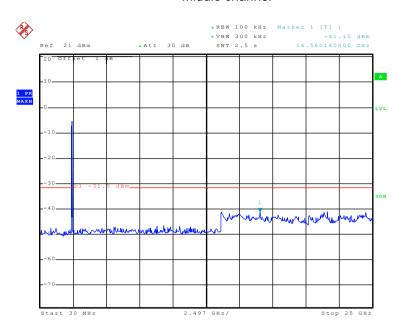


Date: 10.NOV.2015 00:02:40

30MHz~25GHz



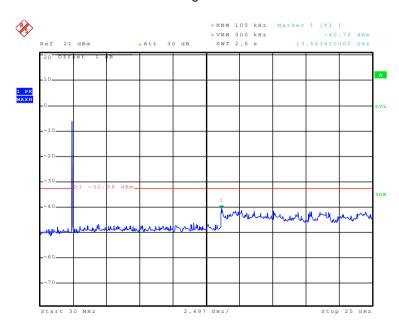
Middle channel



Date: 10.NOV.2015 00:02:57

30MHz~25GHz

Highest channel



Date: 10.NOV.2015 00:03:17

30MHz~25GHz



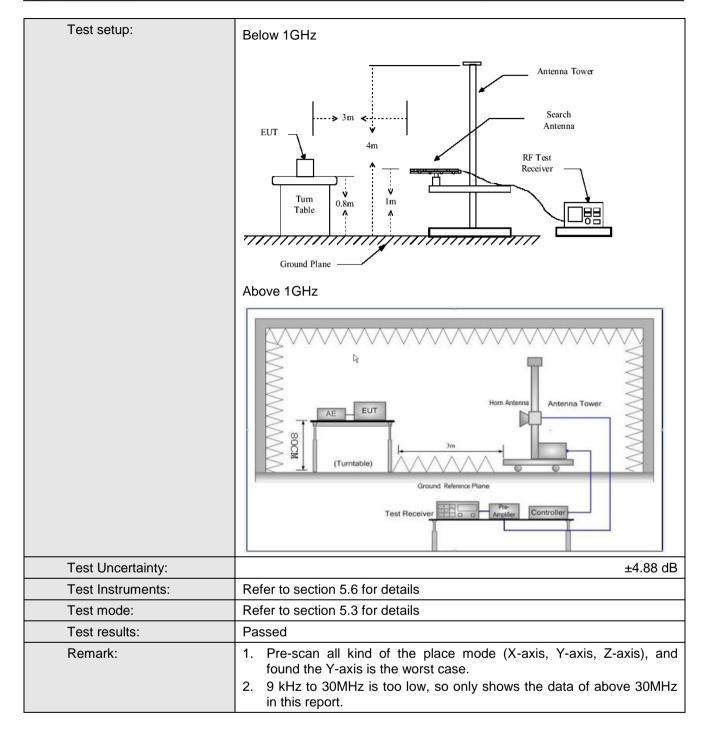


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10:2009								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement [Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
·	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value				
	Above 1GHz Peak 1MHz 3MHz Peak \								
	Above 1GHZ RMS 1MHz 3MHz Average								
Limit:	Frequency Limit (dBuV/m @3m) Remark								
	30MHz-88MHz 40.0 Quasi-peak Va								
	88MHz-216MHz 43.5 Quasi-peak Value								
	216MHz-960MHz 46.0 Quasi-peak Value								
	960MHz-	1GHz	54.0		Quasi-peak Value				
	Above 1	GHz							
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasi-								





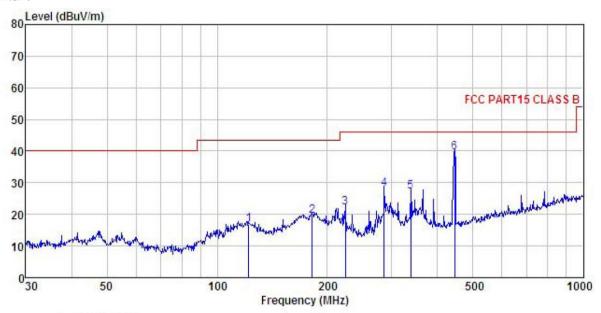






Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : MOBILE PHONE Condition EUT

Model G01005 Test mode : WIFI mode

Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

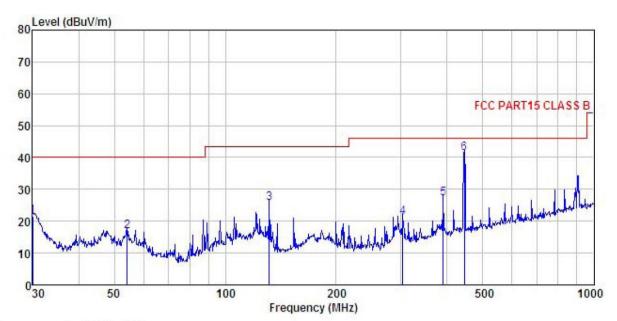
Test Engineer: Carey

REMARK

	Freq		Antenna Factor					Over Limit	
_	MHz	dBu∜	— <u>d</u> B/m		<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	121.976	34.90	10.19	1.14	29.38	16.85	43.50	-26.65	QP
2	181.920	37.34	9.84	1.36	28.96	19.58	43.50	-23.92	QP
2	223.733	38.08	11.36	1.50	28.69	22.25	46.00	-23.75	QP
4	285.978	41.90	12.78	1.73	28.47	27.94	46.00	-18.06	QP
5	338.400	39.67	14.05	1.90	28.53	27.09	46.00	-18.91	QP
6	444.851	50.46	15.57	2.24	28.86	39.41	46.00	-6.59	QP







Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition EUT

: MOBILE PHONE

Model : G01005
Test mode : WIFI mode
Power Rating : AC 120V/60Hz

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

	Freq		intenna Factor						
-	MHz	dBu₹	dB/m		<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	30.000	38.63	12.33	0.43	29.98	21.41	40.00	-18.59	QP
2	54.261	32.83	13.07	0.64	29.80	16.74	40.00	-23.26	QP
3	131.758	45.04	8.82	1.21	29.32	25.75	43.50	-17.75	QP
1 2 3 4 5	303.544	34.92	13.11	1.78	28.46	21.35	46.00	-24.65	QP
5	390.723	39.02	14.87	2.09	28.74	27.24	46.00	-18.76	QP
6	444.851	52.38	15.57	2.24	28.86	41.33	46.00	-4.67	QP





Above 1GHz

Test mode: 80	02.11b		Test channel: Lowest			Remark: Peak			
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polar.	
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
4824.00	49.62	31.54	10.58	40.22	51.52	74.00	-22.48	Vertical	
4824.00	54.75	31.54	10.58	40.22	56.65	74.00	-17.35	Horizontal	
Test mode: 80	02.11b		Test char	nnel: Lowest		Remark: Ave	erage		
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polar.	
((dBuV)	(dB/m)	(dB)	(dB)	,	,	(dB)		
4824.00	(dBuV) 45.57	(dB/m) 31.54	(dB) 10.58	(dB) 40.22	47.47	54.00	-6.53	Vertical	

Test mode: 80	02.11b		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	47.45	31.57	10.64	40.15	49.51	74.00	-24.49	Vertical	
4874.00	50.37	31.57	10.64	40.15	52.43	74.00	-21.57	Horizontal	
Test mode: 80	02.11b		Test char	nnel: 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	41.59	31.57	10.64	40.15	43.65	54.00	-10.35	Vertical	
4874.00	45.71	31.57	10.64	40.15	47.77	54.00	-6.23	Horizontal	

Test mode: 80	02.11b		Test char	nnel: 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	47.63	31.61	10.70	40.08	49.86	74.00	-24.14	Vertical
4924.00	48.73	31.61	10.70	40.08	50.96	74.00	-23.04	Horizontal
Test mode: 80	02.11b		Test char	nnel: 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	41.11	31.61	10.70	40.08	43.34	54.00	-10.66	Vertical
4924.00	42.46	31.61	10.70	40.08	44.69	54.00	-9.31	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 char	nel: 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	47.53	31.54	10.58	40.22	49.43	74.00	-24.57	Vertical	
4824.00	47.97	31.54	10.58	40.22	49.87	74.00	-24.13	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	38.99	31.54	10.58	40.22	40.89	54.00	-13.11	Vertical	
4824.00	39.44	31.54	10.58	40.22	41.34	54.00	-12.66	Horizontal	

Test mode: 80)2.11g		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	46.50	31.57	10.64	40.15	48.56	74.00	-25.44	Vertical	
4874.00	46.77	31.57	10.64	40.15	48.83	74.00	-25.17	Horizontal	
Test mode: 80)2.11g		Test char	nel: Middle		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.	
4874.00	37.95	31.57	10.64	40.15	40.01	54.00	-13.99	Vertical	
4874.00	37.11	31.57	10.64	40.15	39.17	54.00	-14.83	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	47.47	31.61	10.70	40.08	49.70	74.00	-24.30	Vertical	
4924.00	45.05	31.61	10.70	40.08	47.28	74.00	-26.72	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	38.53	31.61	10.70	40.08	40.76	54.00	-13.24	Vertical	
4924.00	36.31	31.61	10.70	40.08	38.54	54.00	-15.46	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	44.84	31.54	10.58	40.22	46.74	74.00	-27.26	Vertical	
4824.00	48.90	31.54	10.58	40.22	50.80	74.00	-23.20	Horizontal	
Test mode: 80	02.11n(H20)		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.	
4824.00	35.99	31.54	10.58	40.22	37.89	54.00	-16.11	Vertical	
4824.00	40.70	31.54	10.58	40.22	42.60	54.00	-11.40	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	47.15	31.57	10.64	40.15	49.21	74.00	-24.79	Vertical	
4874.00	46.44	31.57	10.64	40.15	48.50	74.00	-25.50	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	39.02	31.57	10.64	40.15	41.08	54.00	-12.92	Vertical	
4874.00	37.90	31.57	10.64	40.15	39.96	54.00	-14.04	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	46.10	31.61	10.70	40.08	48.33	74.00	-25.67	Vertical	
4924.00	46.06	31.61	10.70	40.08	48.29	74.00	-25.71	Horizontal	
Test mode: 80	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	36.48	31.61	10.70	40.08	38.71	54.00	-15.29	Vertical	
4924.00	36.34	31.61	10.70	40.08	38.57	54.00	-15.43	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	46.78	31.55	10.61	40.19	48.75	74.00	-25.25	Vertical	
4844.00	45.54	31.55	10.61	40.19	47.51	74.00	-26.49	Horizontal	
Test mode: 80	02.11n(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	37.06	31.55	10.61	40.19	39.03	54.00	-14.97	Vertical	
4844.00	36.33	31.55	10.61	40.19	38.30	54.00	-15.70	Horizontal	

Test mode: 80	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	45.98	31.57	10.64	40.15	48.04	74.00	-25.96	Vertical	
4874.00	45.59	31.57	10.64	40.15	47.65	74.00	-26.35	Horizontal	
Test mode: 80	02.11n(H40)		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	36.23	31.57	10.64	40.15	38.29	54.00	-15.71	Vertical	
4874.00	36.52	31.57	10.64	40.15	38.58	54.00	-15.42	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	45.92	31.59	10.67	40.10	48.08	74.00	-25.92	Vertical	
4904.00	45.03	31.59	10.67	40.10	47.19	74.00	-26.81	Horizontal	
Test mode: 80	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	36.24	31.59	10.67	40.10	38.40	54.00	-15.60	Vertical	
4904.00	35.22	31.59	10.67	40.10	37.38	54.00	-16.62	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.