FCC Test Report

Report No.: AGC00688140804FE04

FCC ID	:	UOSAM506
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Mobile phone
BRAND NAME	:	AMGOO
MODEL NAME	:	AM506
CLIENT	:	Amgoo Telecom (Shenzhen) Co., Ltd.
DATE OF ISSUE	:	Oct.16, 2014
STANDARD(S) TEST PROCEDURE(S)	:	FCC Part 15.247 KDB 558074 v03r02
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct.16, 2014	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. IEEE 802.11N MODULATION SCHEME	7
2.4. RELATED SUBMITTAL(S) / GRANT (S)	7
2.5. TEST METHODOLOGY	7
2.6. SPECIAL ACCESSORIES	7
2.7. EQUIPMENT MODIFICATIONS	8
3. MEASUREMENT UNCERTAINTY	9
4. DESCRIPTION OF TEST MODES	9
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF EUT SYSTEM	10
5.2. EQUIPMENT USED IN EUT SYSTEM	10
5.3. SUMMARY OF TEST RESULTS	10
6. TEST FACILITY	11
7. PEAK OUTPUT POWER	12
7.1. MEASUREMENT PROCEDURE	12
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
7.3. LIMITS AND MEASUREMENT RESULT	14
8. 6DB BANDWIDTH	16
8.1. MEASUREMENT PROCEDURE	16
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	16
8.3. LIMITS AND MEASUREMENT RESULTS	17
9. CONDUCTED SPURIOUS EMISSION	25
9.1. MEASUREMENT PROCEDURE	
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	25
9.3. MEASUREMENT EQUIPMENT USED	25
9.4. LIMITS AND MEASUREMENT RESULT	25
10. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY	32
10.1 MEASUREMENT PROCEDURE	32
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	32
10.3 MEASUREMENT EQUIPMENT USED	32
10.4 LIMITS AND MEASUREMENT RESULT	32

Report No.: AGC00688140804FE04 Page 4 of 69

11. RADIATED EMISSION	40
11.1. MEASUREMENT PROCEDURE	40
11.2. TEST SETUP	41
11.3. LIMITS AND MEASUREMENT RESULT	42
11.4. TEST RESULT	42
12. BAND EDGE EMISSION	51
12.1. MEASUREMENT PROCEDURE	51
12.2. TEST SET-UP	
12.3. Radiated Test Result	
12.4. Conducted Test Result	56
13. FCC LINE CONDUCTED EMISSION TEST	59
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST	59
13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	59
13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	60
13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	60
13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	61
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	63
APPENDIX B: PHOTOGRAPHS OF EUT	64

Applicant	Amgoo Telecom (Shenzhen) Co., Ltd.			
Address	3/F, Block R2-A(North), Gaoxin S. Ave. 4th, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China			
Manufacturer	Amgoo Telecom (Shenzhen) Co., Ltd.			
Address	3/F, Block R2-A(North), Gaoxin S. Ave. 4th, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China			
Product Designation	Mobile phone			
Brand Name	AMGOO			
Test Model	AM506			
Date of test	Oct.08, 2014 to Oct.14, 2014			
Deviation	None			
Condition of Test Sample	Normal			
Report Template	AGCRT-US-BGN/RF			

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Mobile phone". It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description	A major technical description of EOT is described as following			
Operation Frequency	2.412 GHz~2.462GHz			
Output Power	IEEE 802.11b:11.19dBm; IEEE 802.11g:9.14dBm;			
Output Power	IEEE 802.11n(20):8.86dBm; IEEE 802.11n(40):6.27dBm			
Modulation	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)			
Number of channels	11			
Hardware Version	DR018MB-V0.3			
Software Version	N/A			
Antenna Designation	Integrated Antenna			
Antenna Gain	0.8 dBi			
Power Supply	DC3.7V by Built-in Li-ion Battery			

A major technical description of EUT is described as following

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency		
	1	2412 MHZ		
	2	2417 MHZ		
	3	2422 MHZ		
	4	2427 MHZ		
	5	2432 MHZ		
2400~2483.5MHZ	6	2437 MHZ		
	7	2442 MHZ		
	8	2447 MHZ		
	9	2452 MHZ		
	10	2457 MHZ		
	11	2462 MHZ		

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11 For 40MHZ bandwidth system use Channel 3 to Channel 9

MCS Index	Nss	Modulation	R	NBPSC	NCBPS NDBPS			ata Mbps) nsGl		
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

2.3. IEEE 802.11N MODULATION SCHEME

Symbol	Explanation	
NSS	Number of spatial streams	
R	Code rate	
NBPSC	Number of coded bits per single carrier	
NCBPS	Number of coded bits per symbol	
NDBPS	Number of data bits per symbol	
GI	Guard interval	

2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: UOSAM506** filing to comply with the FCC Part 15 requirements.

2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters. Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.247 rules KDB 558074 D01 DTS Meas Guidance v03r02.

2.6. SPECIAL ACCESSORIES

Refer to section 5.2.

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION				
1	Low channel TX				
2	Middle channel TX				
3	High channel TX				
4	Normal operating				
Transm	Note: Transmit by 802.11b with Date rate (1/2/5.5/11) Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54) Transmit by 802.11p (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)				

Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)

Transmit by 802.11n (40MHz) with Date rate

(13.5/27/40.5/54/81/108/121.5/135)

Note:

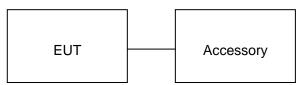
1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%

- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Mobile phone	AM506	FCCID:UOSAM506	EUT
2	Adapter	CH4	DC5V / 500mA	Accessory
3	Battery	AM506	DC3.7V / 1300 mAh	Accessory
4	Earphone	AM506	N/A	Accessory
5	USB Cable	AM506	N/A	Accessory

Note: All the accessories have been used during the test in conduction emission test.

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

Note: The EUT received power from DC3.7V lithium battery.

6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/25/2014	07/24/2015
Power Meter	Agilent	N1911A	MY45100361	04/20/2014	04/20/2015
RF attenuator	N/A	RFA20db	68	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	US41421290	07/25/2014	07/24/2015
Amplifier	EM	EM30180	0607030	02/27/2014	02/26/2015
Horn Antenna	EM	EM-AH-10180	67	04/19/2014	04/18/2015
Horn Antenna	A.H. Systems Inc.	SAS-574		07/25/2014	07/24/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	100694	07/25/2014	07/24/2015
Biological Antenna	A.H. Systems Inc.	SAS-521-4	26	06/06/2014	06/05/2015
Loop Antenna	A.H.	SAS-526B	264	07/13/2014	07/12/2015
LISN	R&S	ESH3-Z5	8389791009	07/25/2014	07/24/2015
Radiation Cable 1	Sat	RE1	R003	06/04/2014	06/03/2015
Radiation Cable 2	Sat	RE2	R002	06/04/2014	06/03/2015
Conduction Cable	Sat	CE1	C001	06/04/2014	06/03/2015

7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Use a direct connection between the antenna port of the transmitter and the power meter, through suitable attenuation
- 2. Set the bandwidth of the power meter is 40MHz
- 3. Record the peak value

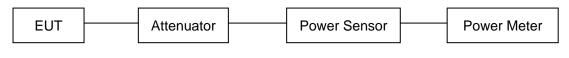
For average power test:

- 1. Connect EUT RF output port to power probe through an RF attenuator.
- 2. Connect the power probe to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.
- 5. The maximum peak power shall be less 1 Watt (30dBm).

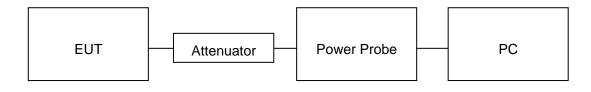
Note : The EUT was tested according to KDB 558074v03r02 for compliance to FCC 47CFR 15.247 requirements.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



AVERAGE POWER SETUP



7.3. LIMITS AND MEASUREMENT RESULT

TEST ITEM	PEAK POWER
TEST MODE	802.11b with data rate 1

LIMITS AND MEASUREMENT RESULT					
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.412	9.21	11.19	30	Pass	
2.437	9.08	11.06	30	Pass	
2.462	9.05	11.03	30	Pass	

TEST ITEM	PEAK POWER
TEST MODE	802.11g with data rate 6

LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	7.16	9.14	30	Pass
2.437	7.11	9.09	30	Pass
2.462	7.06	9.04	30	Pass

TEST ITEM	PEAK POWER
TEST MODE	802.11n 20 with data rate 6.5

LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	6.88	8.86	30	Pass
2.437	6.74	8.72	30	Pass
2.462	6.55	8.53	30	Pass

TEST ITEM	PEAK POWER
TEST MODE	802.11n 40 with data rate 13.5

LIMITS AND MEASUREMENT RESULT				
Frequency (GHz)	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.422	4.29	6.27	30	Pass
2.437	4.25	6.23	30	Pass
2.452	4.15	6.13	30	Pass

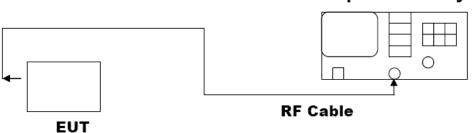
8. 6DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



Spectrum Analyzer

8.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11b with data rate 11

LIMITS AND MEASUREMENT RESULT				
Applicable Limite	Applicable Limits			
Applicable Limits	Test Data (MHz) Criteria			
	Low Channel	9.127	PASS	
>500KHZ	Middle Channel	10.032	PASS	
	High Channel	9.146	PASS	

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11g with data rate 54

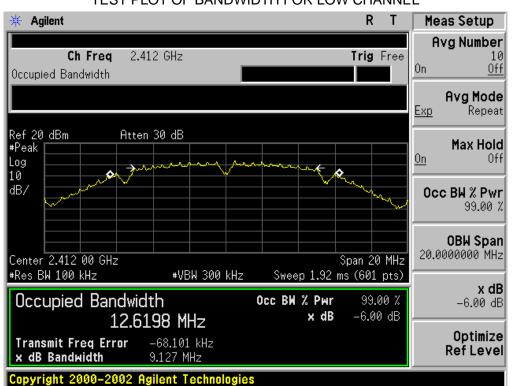
LIMITS AND MEASUREMENT RESULT								
Applicable Limite	Applicable Limits							
Applicable Limits	Test Da	Criteria						
	Low Channel	15.619	PASS					
>500KHZ	Middle Channel	14.432	PASS					
	High Channel	16.027	PASS					

TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 20 with data rate 65

LIMITS AND MEASUREMENT RESULT								
Applicable Limite	Applicable Limits							
Applicable Limits	Test Da	Criteria						
	Low Channel	17.176	PASS					
>500KHZ	Middle Channel	15.942	PASS					
	High Channel	17.169	PASS					

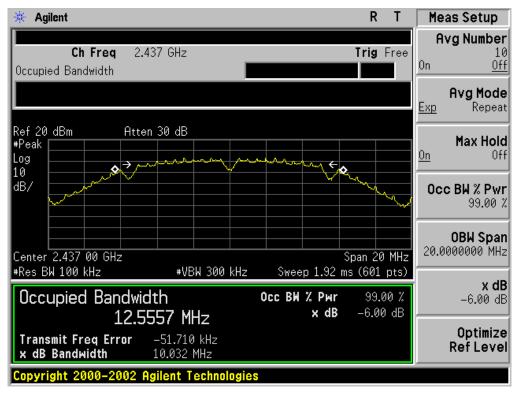
TEST ITEM	6DB BANDWIDTH
TEST MODE	802.11n 40 with data rate 135

LIMITS AND MEASUREMENT RESULT								
Applicable Limite	Applicable Limits							
Applicable Limits	Test Da	Criteria						
	Low Channel	35.194	PASS					
>500KHZ	Middle Channel	35.180	PASS					
	High Channel	35.178	PASS					



802.11b TEST RESULT TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

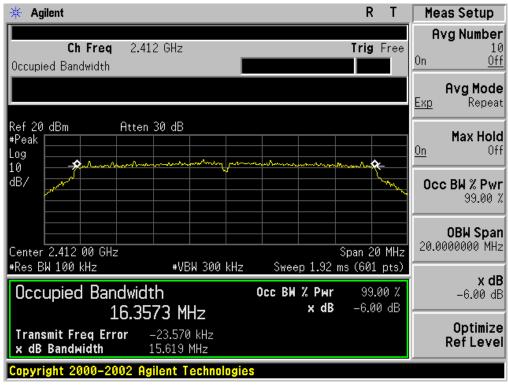


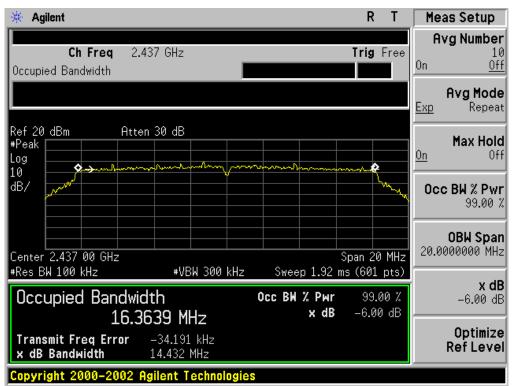


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11g TEST RESULT

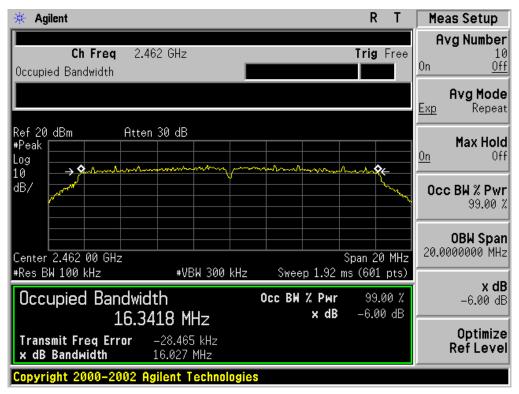
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

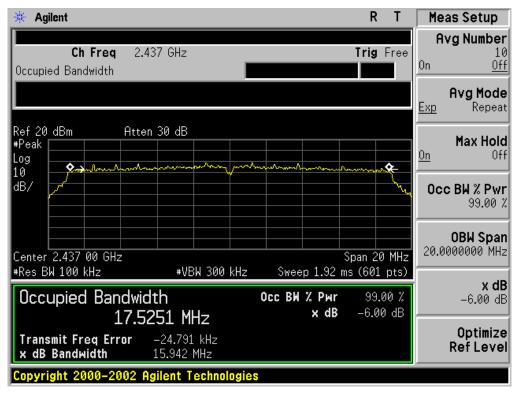


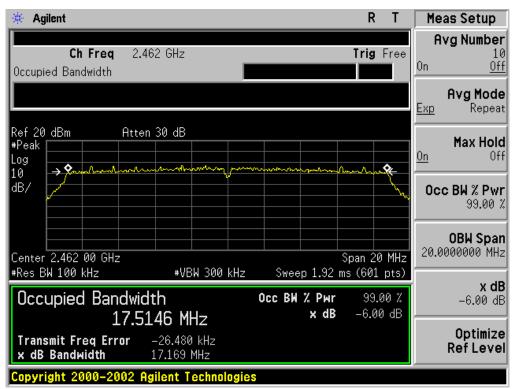
🔆 Agilent R T Meas Setup Avg Number Ch Freq 2.412 GHz Trig Free 10 0n Off Occupied Bandwidth Avg Mode <u>Exp</u> Repeat Ref20 dBm ≢Peak _____ Atten 30 dB Max Hold <u>0n</u> Off Log ⇒� **Q**€ 10 dB/ Occ BW % Pwr 99.00 % **OBW Span** 20.0000000 MHz Center 2.412 00 GHz Span 20 MHz Sweep 1.92 ms (601 pts) #Res BW 100 kHz #VBW 300 kHz x dB Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB -6.00 dB 17.5113 MHz Optimize -23.314 kHz Transmit Freq Error **Ref Level** x dB Bandwidth 17.176 MHz Copyright 2000–2002 Agilent Technologies

802.11n (20) TEST RESULT

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

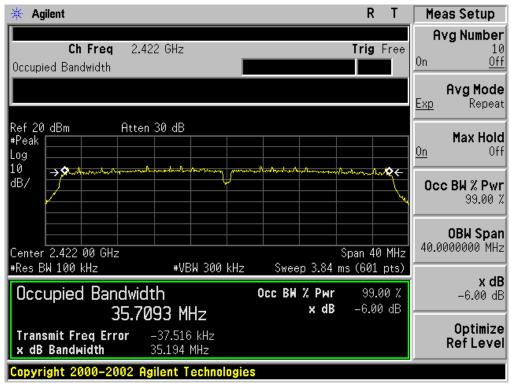


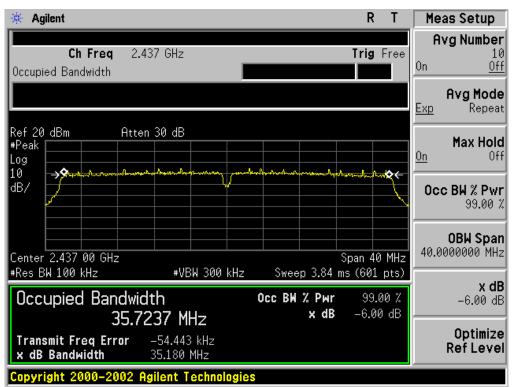


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

802.11n(40) TEST RESULT

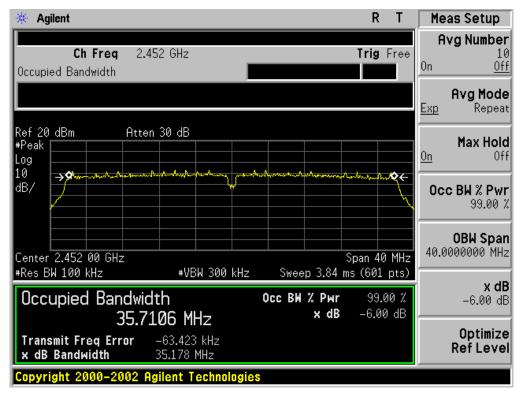
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.
- Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

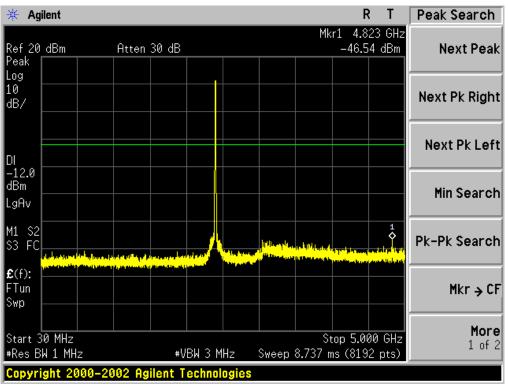
The same as described in section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT								
Appliechie Limite	Measurement Result							
Applicable Limits	Test Data	Criteria						
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit							
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS						
intentional radiator is operating, the radio frequency	Channel							
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS						

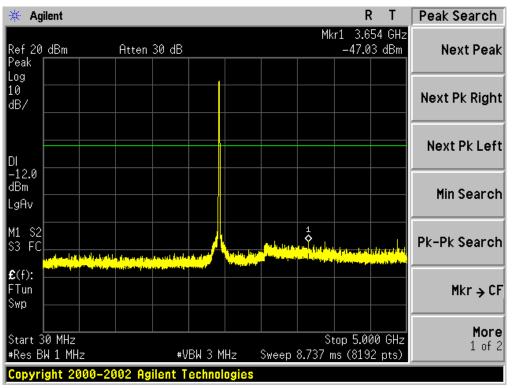


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11b FOR MODULATION IN LOW CHANNEL

🔆 Ag	ilent								R	Т	Peak Search
Ref 20 Peak	dBm		Atten	30 dB				Mk	r1 7.23 -42.8	37 GHz 4 dBm	Next Peak
Log 10 dB/											Next Pk Right
DI											Next Pk Left
-12.0 dBm LgAv				1							Min Search
M1 S2 S3 FC								ol-lo-pinete navente po	a throng a dia Anna an	ublica celate Incensione	Pk-Pk Search
€(f): FTun Swp											Mkr → CF
Start 5 #Res B	5.000 G W 1 MH			#V	BW 3 M	Hz	Sweep		p 12.00 ns (8192		More 1 of 2
Copyri	ight 20	00-20	002 Ag	ilent T	echnol	ogies					

🔆 Agilent								R	Т	Peak Search
Ref 20 dBm Peak		Atten	30 dB				Mkr:		L8 GHz 5 dBm	Next Peak
Log 10 dB/										Next Pk Right
										Next Pk Left
-12.0 dBm LgAv										Min Search
SS FU				a da karanan Agenter Sana		<mark>Instalden bele</mark> National	Hora Hay Mad	d urb tau di po na na n	li sudda sala Ray da sala	Pk-Pk Search
£ (f): FTun Swp										Mkr → CF
			#V	вы з м	Hz	Sweep		p 19.00 ns (819)		More 1 of 2
Start 12.000 #Res BW 1 M Copyright :	1Hz)02 Ag				Sweep				

🔆 Agi	ilent								F	۲	Peak Search
Ref 20 Peak	dBm		Atten	30 dB				Mkr		33 GHz 1 dBm	Next Peak
Log 10 dB/											Next Pk Right
DI -12.0											Next Pk Left
dBm LgAv										1	Min Search
\$3 FC.	las de la contena de las en contenas de las contenas de en contenas de las contenas de l	n til kunst Name yata	di dan di <mark>Kalendar</mark>	landara a la seconda de la Seconda de la seconda de la Seconda de la seconda de la		thug hint of thug and the	llesser and lle Roman and a state	ang ang ting ting ting ting ting ting ting ti	an a	a start and a start and	Pk-Pk Search
£ (f): FTun Swp											Mkr → CF
	9.000 GH W 1 MHz	lz		#V	ви з м	 Hz	Sweep			00 GHz 2 pts)	More 1 of 2
Copyri	ght 200	0-20	02 Ag	ilent T	echnol	ogies					

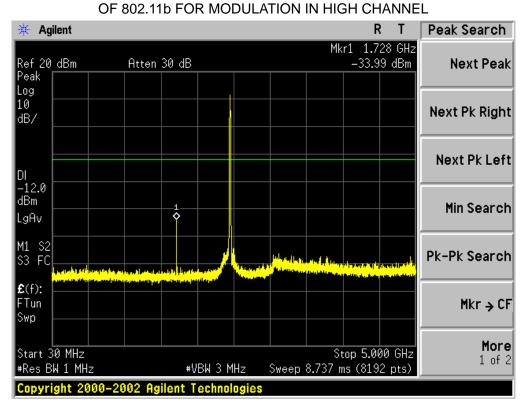


TEST PLOT OF OUT OF BAND EMISSIONS OF 802.11b FOR MODULATION IN MIDDLE CHANNEL

🔆 Agile	ent							F	? Т	Peak Search
Ref 20 c Peak	dBm	Atten 3	30 dB				Mk		11 GHz 1 dBm	Next Peak
Log 10 dB/										Next Pk Right
DI -12.0										Next Pk Left
dBm LgAv			1							Min Search
M1 S2 S3 FC	tilega heren greg i beski tegelge								na tita (p) <mark>Jana na </mark>	Pk-Pk Search
£ (f): FTun Swp										Mkr → CF
Start 5.0 #Res BW	1 MHz			3W 3 M		Sweep	Sto 12.01 m		00 GHz 2 pts)	More 1 of 2
Copyrig	ht 2000-20	002 Agi	lent Te	echnol	ogies					

🔆 Agi	ilent								R	Т	Peak Search
Ref20 Peak ∥	dBm		Atten	30 dB				Mkr:		39 GHz 9 dBm	Next Peak
Log 10 dB/											Next Pk Right
DI											Next Pk Left
-12.0 dBm LgAv				1							Min Search
M1 S2 S3 FC		and the second						dhaday, biy		l den ditte	Pk-Pk Search
€(f): FTun Swp											Mkr → CF
	2.000 0 W 1 MHz			#\	ВМ З М	Hz	Sweep		p 19.00 is (8192		More 1 of 2
)02 As	ilent T			οπeep	14.2	15 (010)	2 pts/	

🔆 Agi	ilent								R	Т	Peak Search
Ref 20 Peak	dBm	At	ten 3	0 dB				Mkr:		92 GHz 1 dBm	Next Peak
Log 10 dB/											Next Pk Right
DI											Next Pk Left
-12.0 dBm LgAv										1	Min Search
M1 S2 S3 FC	a ang kulikang kati Nang katikang katika	lanta lipali <mark>Anta lipali</mark>	14 a Jacobia (1 	un a la l	n più na <mark>la para 1</mark> 933 na 1944 na 194	ala di kan	al a dha a dha Na shearanna a shearanna Na shearanna a		n in den der der Seine sin der	ally a la fraite. <mark>Ally a de sa lla</mark>	Pk-Pk Search
€(f): FTun Swp											Mkr → CF
	9.000 GH W 1 MHz	lz		#V	вы з м	Hz	Sweep	Sto 15.29 m	p 25.00 ns (819)		More 1 of 2
Copyri	ght 200	0-2002	Agil	ent T	echnol	ogies					



TEST PLOT OF OUT OF BAND EMISSIONS

🔆 Agilent		R T Pea	k Search
Ref 20 dBm Peak	Atten 30 dB	Mkr1 7.386 GHz -40.86 dBm	Next Peak
Log 10 dB/		Nex	(t Pk Right
		Ne	ext Pk Left
-12.0 dBm LgAv	1 0		1in Search
M1 S2 S3 FC	Later boundary and a second second	^a likan di kana di kana di kana di kana kana si kana kana si kana kana si kana kana si	Pk Search
£(f): FTun Swp			Mkr → CF
Start 5.000 GHz #Res BW 1 MHz	#VBW 3 Mł	Stop 12.000 GHz : Sweep 12.01 ms (8192 pts)	More 1 of 2

🔆 Agi	ilent								R	T	Peak Search
Ref20 Peak ∥	dBm		Atten	30 dB				Mkr:	1 13.5 -41.5	90 GHz 3 dBm	
Log 10 dB/											Next Pk Right
DI											Next Pk Left
-12.0 dBm LgAv			1								Min Search
		n all hann a chunna	- ` •	<mark>h h h h h</mark> han ha iyo calaa ya cala			<mark>a tildinda a ba</mark> Mata ba <u>araa</u>			dy dial de Regioner	Pk-Pk Search
€(f): FTun Swp											Mkr → CF
Start 1 #Res Bl				#\	вы з м	IHz	Sweep		p 19.00 ns (819		More 1 of 2
)02 Ag	ilent T			onoop		10-1010	e-pc3/	

🔆 Agi	ilent								F	₹ T	Peak Search
Ref 20 Peak	dBm		Atten	30 dB				Mkr		'97 GHz 16 dBm	Next Peak
Log 10 dB/											Next Pk Right
DI											Next Pk Left
-12.0 dBm LgAv											Min Search
00 10	lenet il etc	an gallan 	alistenjeganje Njerova senjega	<mark>h flah pial</mark> Na sa sa sa	den de président par al latera	en in a bien , and a set	anda president <mark>Printer anteres</mark>		a di sedi da _{al} t <mark>Antonio de la compositiona d</mark>	ite del inte I <mark>tel_ecte^{s de}n</mark>	Pk-Pk Search
€(f): FTun Swp											Mkr→CF
	9.000 G W 1 MHz			#\	ВМ З М	Hz	Sweep	Sto 15.29 m		00 GHz 2 pts)	More 1 of 2
Copyri	ght 200	0-20	102 Ag	ilent T	echnol	ogies					

10. MAXIMUM CONDUCTED OUTPUT PEAK POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER PECTRAL DENSITY		
TEST MODE	802.11b with data rate 1		

Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-11.59	8	Pass
Middle Channel	-10.31	8	Pass
High Channel	-9.65	8	Pass

TEST ITEM	POWER PECTRAL DENSITY	
TEST MODE	802.11g with data rate 6	

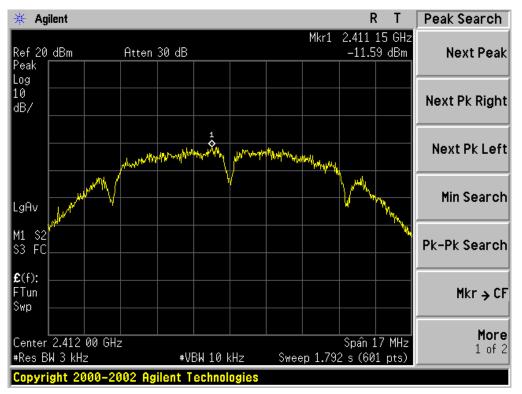
Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-16.2	8	Pass
Middle Channel	-13.91	8	Pass
High Channel	-15.9	8	Pass

TEST ITEM	POWER PECTRAL DENSITY			
TEST MODE	802.11n 20 with data rate 6.5			

Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-15.64	8	Pass
Middle Channel	-14.47	8	Pass
High Channel	-15.97	8	Pass

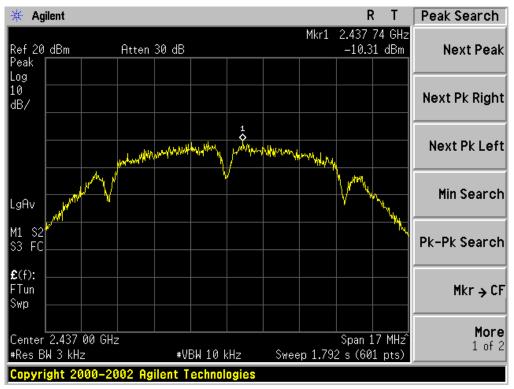
TEST ITEM	POWER PECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

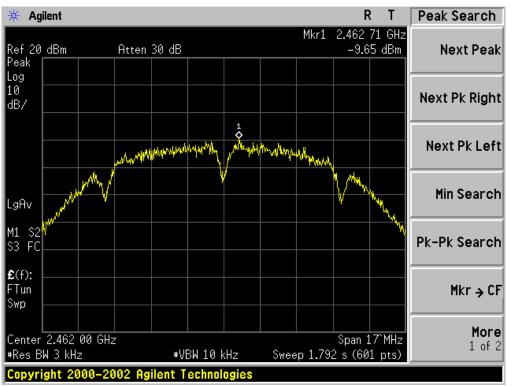
Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-22.42	8	Pass
Middle Channel	-20.27	8	Pass
High Channel	-21.44	8	Pass



802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

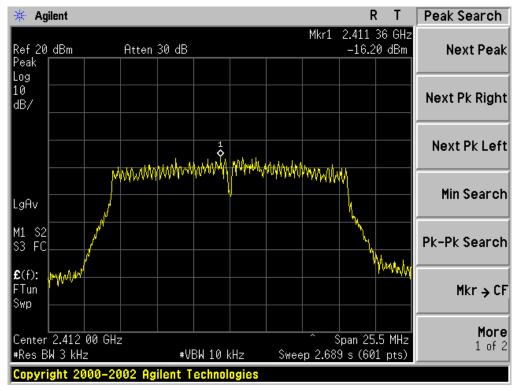


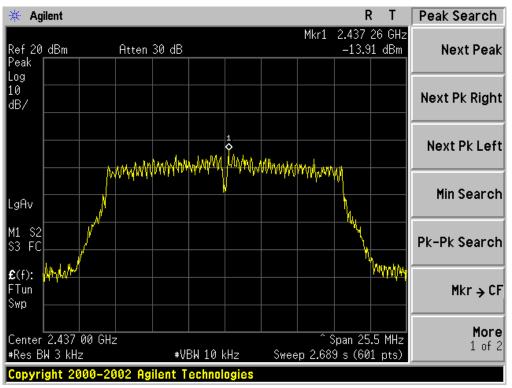


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11g TEST RESULT

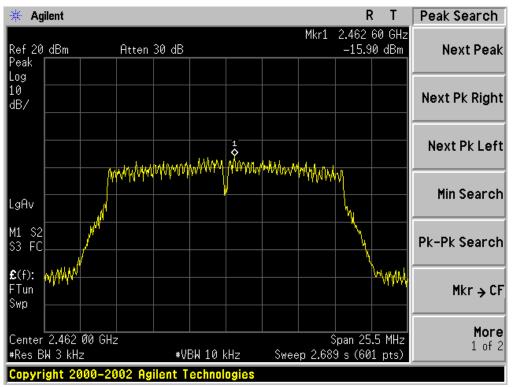
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

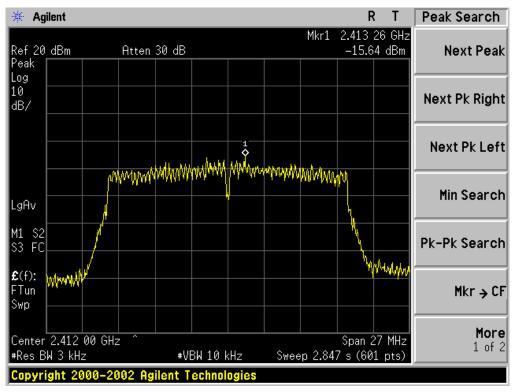




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

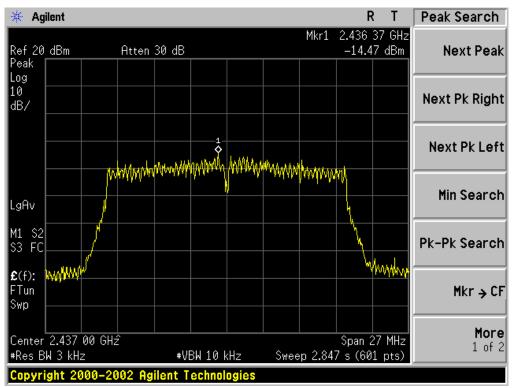
TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

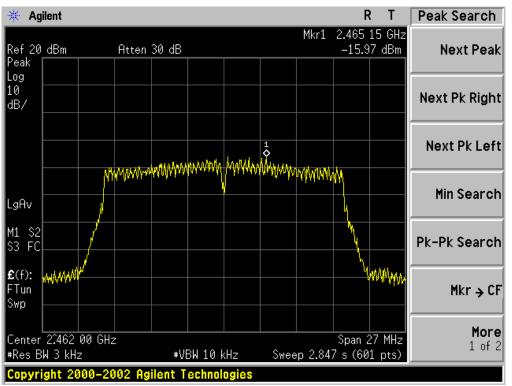




802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

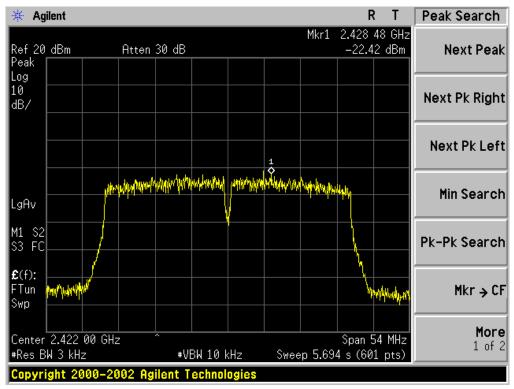


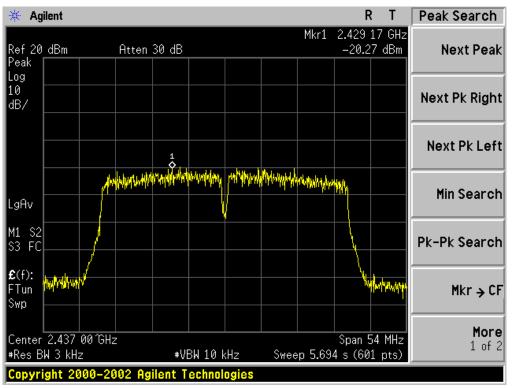


TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

802.11n 40 TEST RESULT

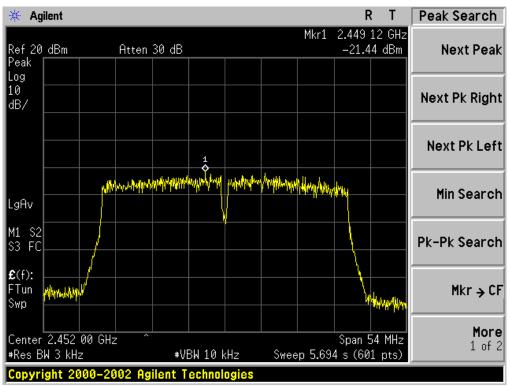
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



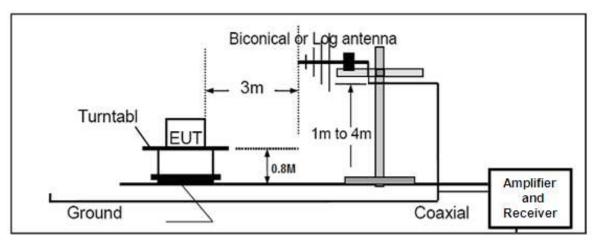
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

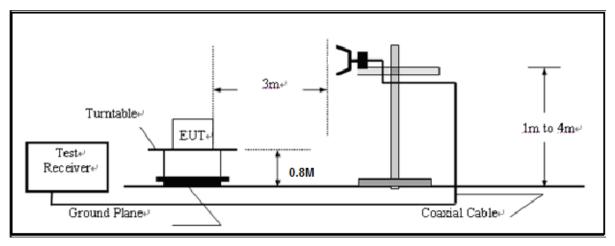
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	3		
216~960	200	3		
Above 960	500	3		

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

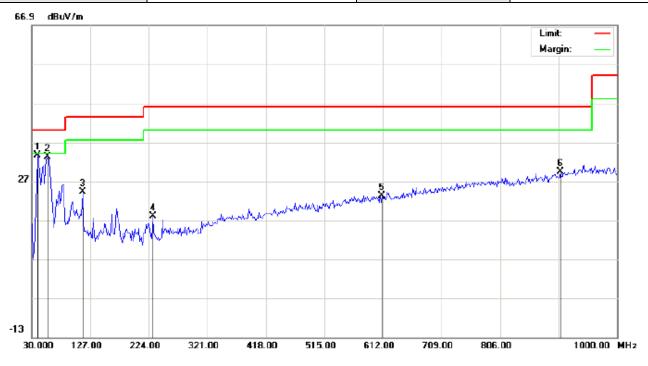
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED	EMISSION	BELOW	1GHZ

EUT	Mobile phone	Model Name	AM506
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

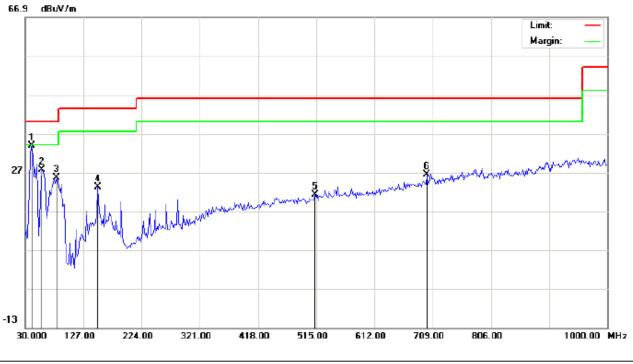


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile phone M/N: AM506 Mode: Low Channel TX Note: Polarization: *Horizontal* Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	39.7000	22.18	11.51	33.69	40.00	-6.31	peak			
2		55.8667	21.93	11.19	33.12	40.00	-6.88	peak			
3		114.0667	12.70	11.45	24.15	43.50	-19.35	peak			
4		230.4667	4.92	13.16	18.08	46.00	-27.92	peak			
5		610.3832	-0.60	23.75	23.15	46.00	-22.85	peak			
6		906.2333	0.55	28.78	29.33	46.00	-16.67	peak			

Report No.: AGC00688140804FE04 Page 44 of 69

EUT	Mobile phone	Model Name	AM506	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical	

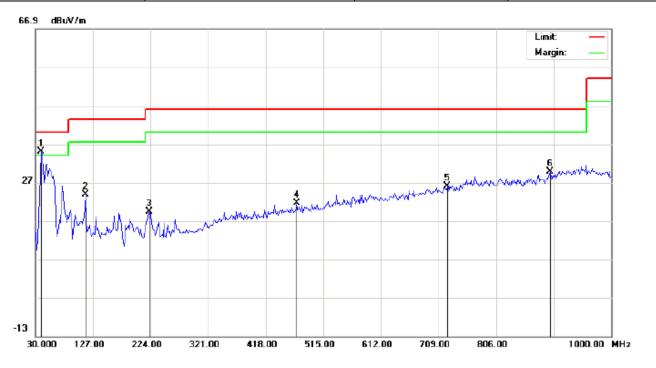


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile phone M/N: AM506 Mode: Low Channel TX Note: Polarization: Vertical Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	41.3167	24.91	8.81	33.72	40.00	-6.28	peak			
2		57.4833	19.48	8.17	27.65	40.00	-12.35	peak			
3		81.7333	23.20	2.42	25.62	40.00	-14.38	peak			
4		151.2500	7.85	15.27	23.12	43.50	-20.38	peak			
5		513.3832	-0.33	21.49	21.16	46.00	-24.84	peak			
6		699.3000	1.16	25.17	26.33	46.00	-19.67	peak			

Report No.: AGC00688140804FE04 Page 45 of 69

EUT	Mobile phone	Model Name	AM506	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal	

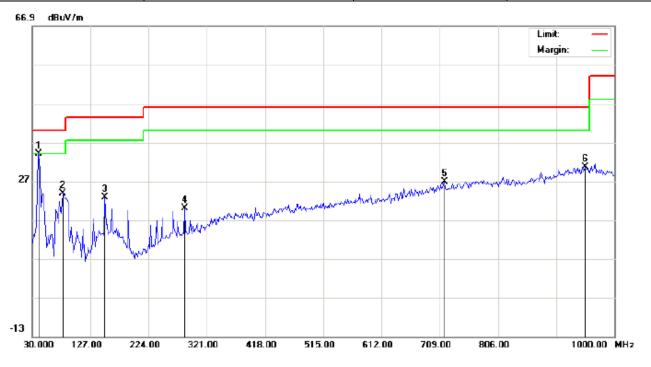


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile phone M/N: AM506 Mode: Middle Channel TX Note: Polarization: *Horizontal* Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	cm	cm	degree	
1	*	39.7000	23.48	11.51	34.99	40.00	-5.01	peak			
2		114.0667	12.26	11.45	23.71	43.50	-19.79	peak			
3		222.3833	6.48	12.85	19.33	46.00	-26.67	peak			
4		469.7333	0.83	20.80	21.63	46.00	-24.37	peak			
5		723.5500	0.05	25.87	25.92	46.00	-20.08	peak			
6		896.5333	1.23	28.52	29.75	46.00	-16.25	peak			

Report No.: AGC00688140804FE04 Page 46 of 69

EUT	Mobile phone	Model Name	AM506	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical	

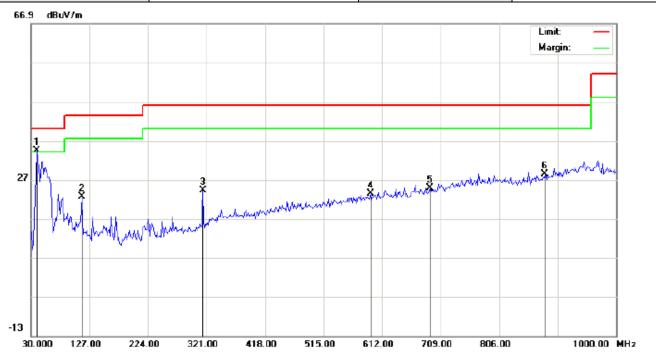


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile phone M/N: AM506 Mode: Middle Channel TX Note: Polarization: Vertical Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	41.3166	25.28	8.81	34.09	40.00	-5.91	peak			
2		81.7332	21.32	2.42	23.74	40.00	-16.26	peak			
3		151.2500	7.59	15.27	22.86	43.50	-20.64	peak			
4		283.8167	4.99	14.92	19.91	46.00	-26.09	peak			
5		717.0833	1.18	25.68	26.86	46.00	-19.14	peak			
6		951.5000	0.68	29.99	30.67	46.00	-15.33	peak			

Report No.: AGC00688140804FE04 Page 47 of 69

EUT	UT Mobile phone Model Name		AM506
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

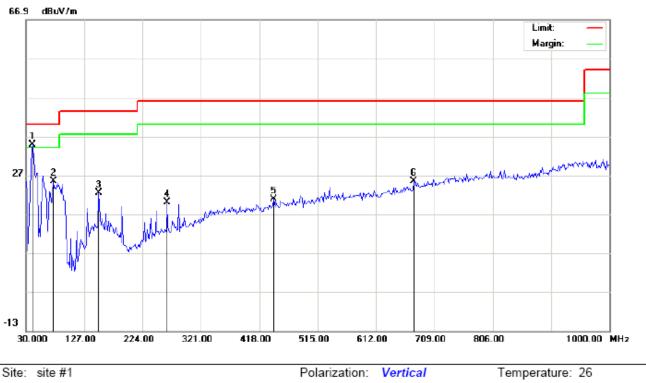


Site: site #1 Limit: FCC Class B 3M Radiation EUT: Mobile phone M/N: AM506 Mode: High Channel TX Note: Polarization: *Horizontal* Power: AC 120V/60Hz Distance: 3m Temperature: 26 Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	22.95	11.51	34.46	40.00	-5.54	peak			
2		114.0667	11.16	11.45	22.61	43.50	-20.89	peak			
3		314.5333	7.86	16.38	24.24	46.00	-21.76	peak			
4		592.6000	-0.11	23.55	23.44	46.00	-22.56	peak			
5		691.2167	-0.15	24.95	24.80	46.00	-21.20	peak			
6		881.9833	0.20	28.14	28.34	46.00	-17.66	peak			

Report No.: AGC00688140804FE04 Page 48 of 69

EUT	Mobile phone	Model Name	AM506
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical



Limit: FCC Class B 3M Radiation EUT: Mobile phone M/N: AM506 Mode: High Channel TX Note:

Power: AC 120V/60Hz Distance: 3m

Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	41.3167	26.07	8.81	34.88	40.00	-5.12	peak			
2		75.2667	22.52	2.96	25.48	40.00	-14.52	peak			
3		151.2500	7.09	15.27	22.36	43.50	-21.14	peak			
4		264.4166	5.57	14.34	19.91	46.00	-26.09	peak			
5		442.2500	0.55	20.35	20.90	46.00	-25.10	peak			
6		675.0500	0.95	24.52	25.47	46.00	-20.53	peak			

RESULT: PASS

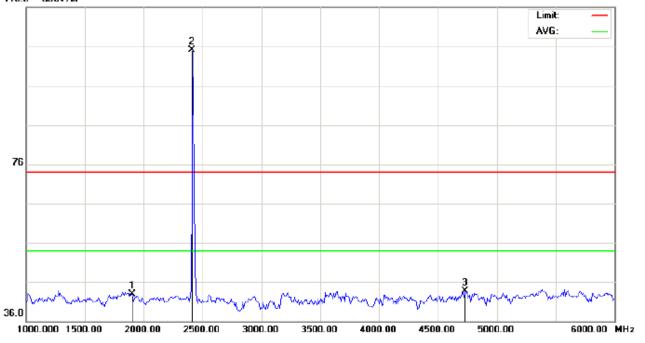
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ

EUT	Mobile phone	Model Name	AM506
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

116.0 dBuV/m



 Site:
 site #1
 Polarization:
 Horizontal
 Temperature:
 26

 Limit:
 FCC Class B 3M Radiation above 1GHZ(PK)
 Power:
 Humidity:
 60 %

 EUT:
 Mobile phone
 Distance:
 3m

 M/N:
 AM506

 Mode:
 802.11b Low Channel TX

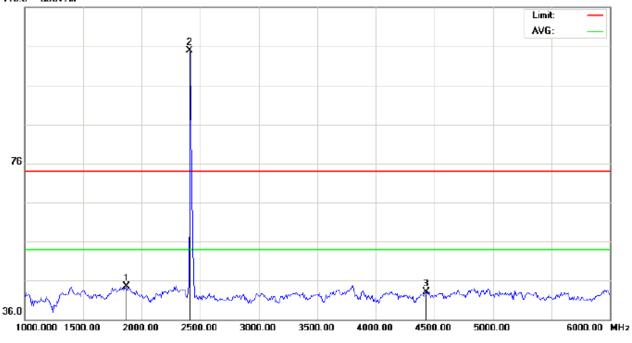
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1900.000	54.12	-11.17	42.95	74.00	-31.05	peak			
2	*	2412.000	114.78	-9.67	105.11	74.00	31.11	peak			
3		4733.333	46.25	-2.50	43.75	74.00	-30.25	peak			

Report No.: AGC00688140804FE04 Page 50 of 69

EUT	Mobile phone	Model Name	AM506
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical





Site: site #1

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

EUT: Mobile phone

M/N: AM506

Mode: 802.11b Low Channel TX Note: Polarization: Power: Distance: 3m

Vertical

Temperature: 26 Humidity: 60 %

Antenna Table Reading Measurement Over Freq. Factor Limit Mk No. Height Degree Detector Comment dBu∨ dB/m dBuV/m dBuV/m MHz dB cm degree 55.95 1 1866.667 -11.52 44.43 74.00 -29.57 peak 2 * 2412.000 114.57 -9.67 104.90 74.00 30.90 peak 3 4433.333 46.43 -3.34 43.09 74.00 -30.91 peak

RESULT: PASS

Note: The other modes radiation emissions have more than 20dB margin. All modes radiation emission from 6GHz to 25GHz at least have 20dB margin. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit. The "Factor" value can be calculated automatically by software of measurement system.

12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

1)Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

2)Conducted Emissions at the bang edge

a)The transmitter output was connected to the spectrum analyzer

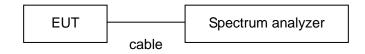
b)Set RBW=100kHz,VBW=300kHz

c)Suitable frequency span including 100kHz bandwidth from band edge

12.2. TEST SET-UP

Radiated same as 11.2

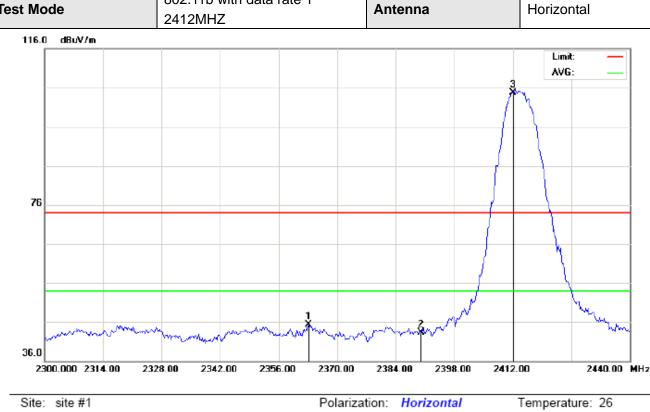
Conducted set up



Humidity: 60 %

EUT Mobile phone **Model Name** AM506 Temperature 25°C **Relative Humidity** 55.4% Pressure 960hPa **Test Voltage** Normal Voltage 802.11b with data rate 1 **Test Mode** Antenna Horizontal 2412MHZ 116.0 dBuV/m

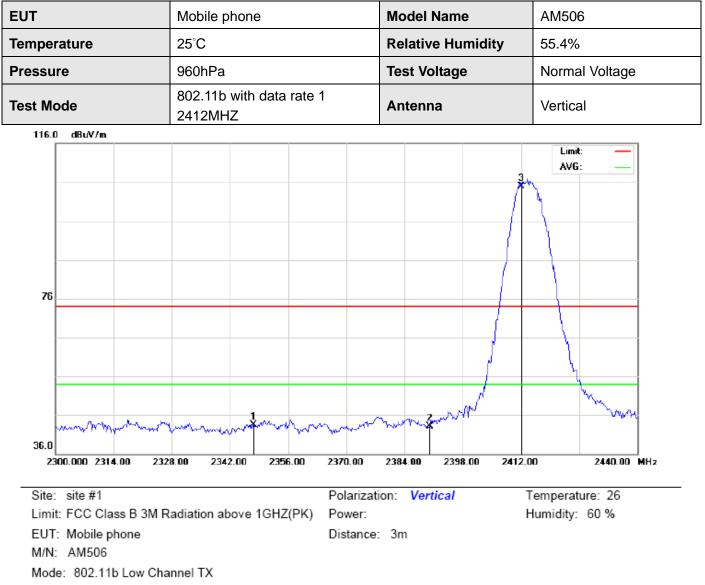
12.3. Radiated Test Result



Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: EUT: Mobile phone Distance: 3m M/N: AM506 Mode: 802.11b Low Channel TX Note:

Antenna Table Reading Factor Measurement Limit Over Freq. Mk Height Degree Comment No. Detector MHz dBu∨ dB/m dBuV/m dBu∀/m dB cm degree 2363.233 55.04 45.32 1 -9.72 74.00 -28.68 peak -30.79 2390.000 43.21 2 52.90 -9.69 74.00 peak 2412.000 -9.67 104.69 74.00 3 114.36 30.69 peak

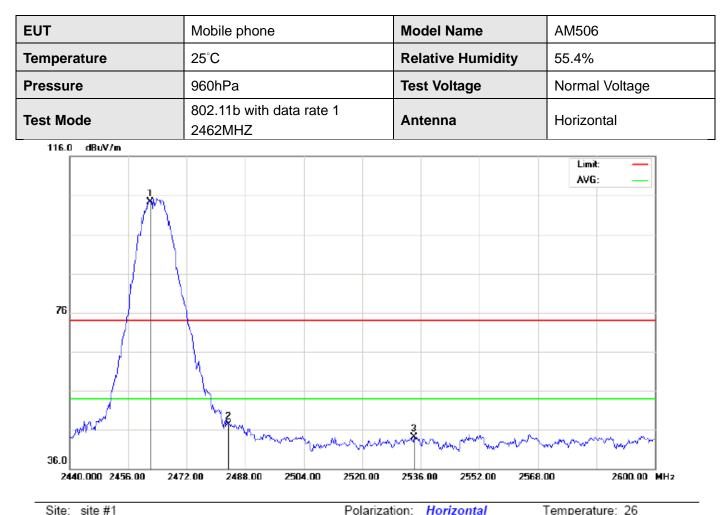
Report No.: AGC00688140804FE04 Page 53 of 69



Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2347.600	53.31	-9.74	43.57	74.00	-30.43	peak			
2		2390.000	52.77	-9.69	43.08	74.00	-30.92	peak			
3	*	2412.000	114.58	-9.67	104.91	74.00	30.91	peak			

Report No.: AGC00688140804FE04 Page 54 of 69



Site: site #1

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

EUT: Mobile phone

M/N: AM506

Mode: 802.11b High Channel TX Note:

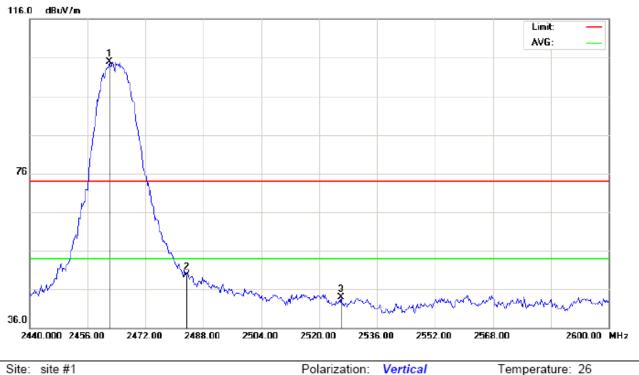
Power: Distance: 3m

Temperature: 26 Humidity: 60 %

Antenna Table Freq. Reading Factor Measurement Limit Over Mk Height Degree Detector No. Comment dBu∨ dBu∀/m dB MHz dB/m dBuV/m cm degree * 2462.000 113.89 -9.61 104.28 74.00 30.28 1 peak 2 2483.500 56.81 -9.59 47.22 74.00 -26.78 peak 3 2534.133 53.59 -9.49 44.10 74.00 -29.90 peak

Report No.: AGC00688140804FE04 Page 55 of 69

EUT	Mobile phone	Model Name	AM506
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical





No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1	*	2462.000	114.42	-9.61	104.81	74.00	30.81	peak			
2		2483.500	59.22	-9.59	49.63	74.00	-24.37	peak			
3		2526.133	53.40	-9.51	43.89	74.00	-30.11	peak			

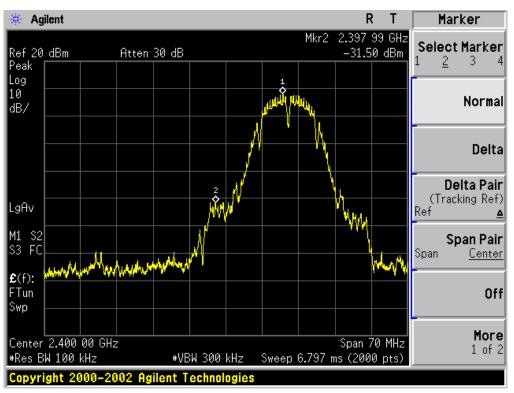
RESULT: PASS

Note: The other modes radiation emission have enough 20dB margin.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

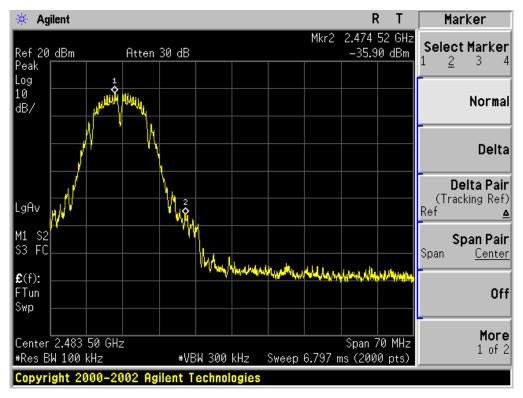
The "Factor" value can be calculated automatically by software of measurement system.

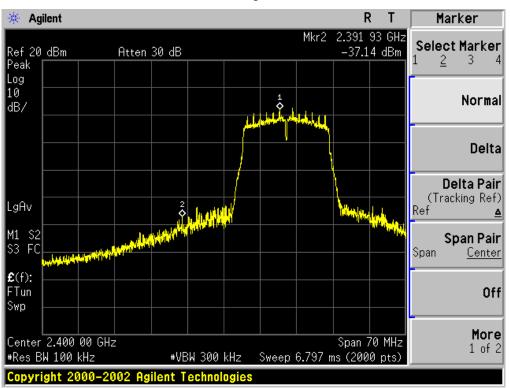
12.4. Conducted Test Result



802.11b-CH1

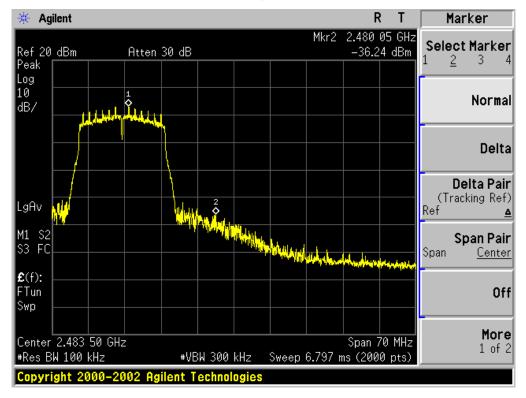
802.11b-CH11

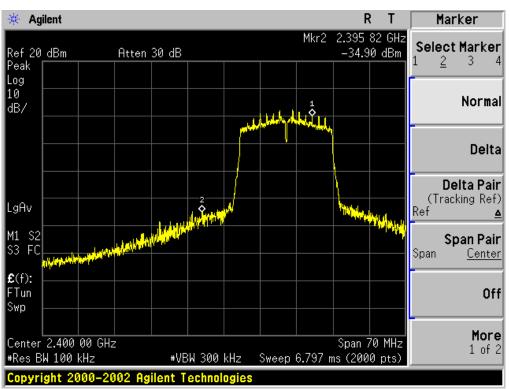




802.11g- CH1

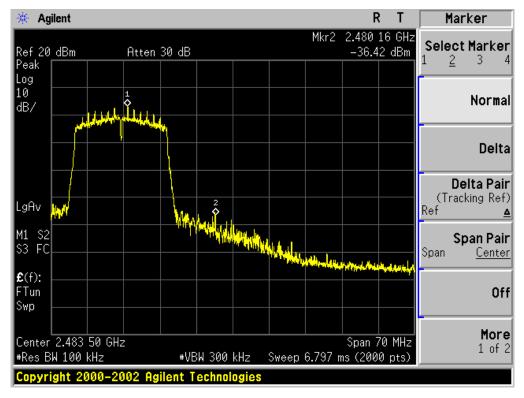
802.11g- CH11





802.11n-CH1

802.11n-CH11



13. FCC LINE CONDUCTED EMISSION TEST

13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

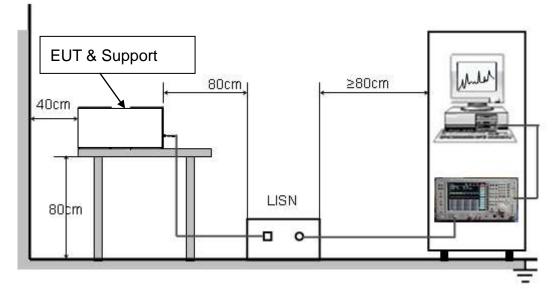
Frequency	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

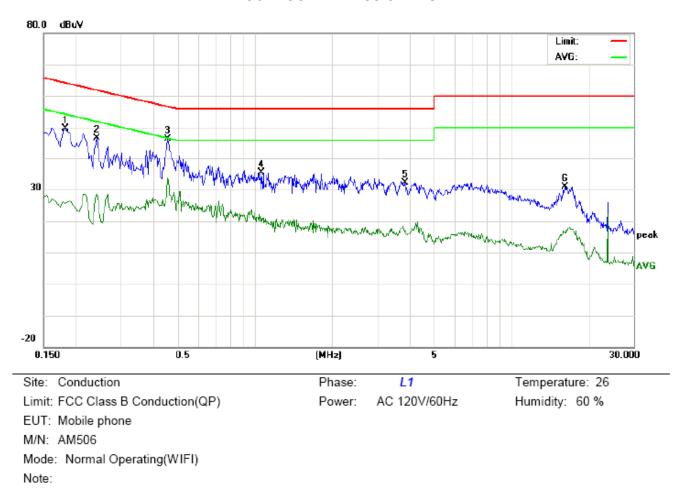
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

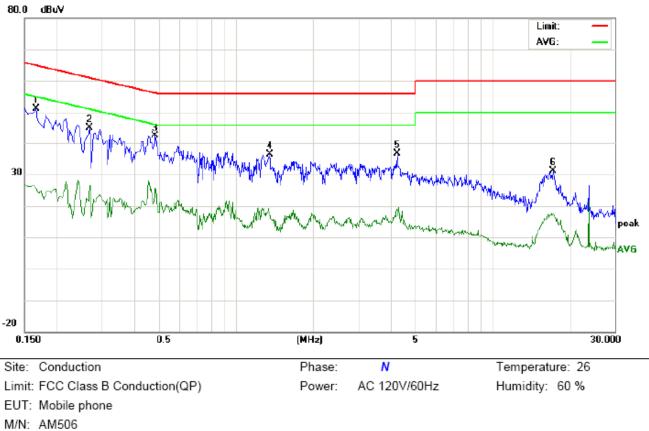
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



LINE CONDUCTED EMISSION TEST LINE 1-L

No.	No. Freq.		Reading_Level (dBuV)		Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1819	39.33		15.34	10.20	49.53		25.54	64.39	54.39	-14.86	-28.85	Ρ	
2	0.2420	36.29		18.46	10.26	46.55		28.72	62.02	52.02	-15.47	-23.30	Ρ	
3	0.4580	35.92		23.25	10.37	46.29		33.62	56.73	46.73	-10.44	-13.11	Р	
4	1.0620	25.07		11.16	10.37	35.44		21.53	56.00	46.00	-20.56	-24.47	Ρ	
5	3.8700	21.76		6.73	10.45	32.21		17.18	56.00	46.00	-23.79	-28.82	Р	
6	16.1940	20.68		6.15	10.11	30.79		16.26	60.00	50.00	-29.21	-33.74	Ρ	



Line Conducted Emission Test Line 2-N

Mode: Normal Operating(WIFI)

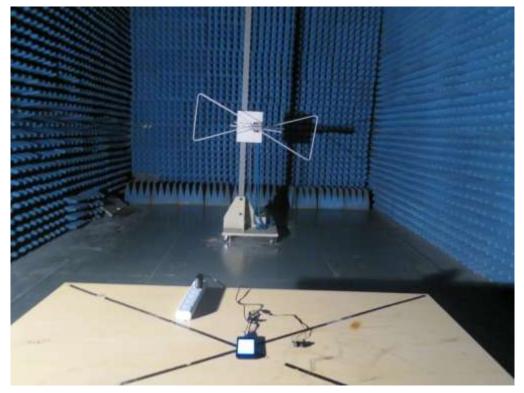
Note:

No.	Freq.	Reading_Level (dBuV)		Correct Measuremer Factor (dBuV)					nit uV)	Mai (c	rgin IB)	P/F	Comment	
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1660	40.88		15.49	10.18	51.06		25.67	65.15	55.15	-14.09	-29.48	Ρ	
2	0.2700	34.88		16.34	10.28	45.16		26.62	61.12	51.12	-15.96	-24.50	Ρ	
3	0.4860	32.06		15.34	10.39	42.45		25.73	56.24	46.24	-13.79	-20.51	Ρ	
4	1.3540	26.11		6.41	10.38	36.49		16.79	56.00	46.00	-19.51	-29.21	Р	
5	4.2580	26.30		8.49	10.32	36.62		18.81	56.00	46.00	-19.38	-27.19	Р	
6	17.2020	20.94		7.27	10.13	31.07		17.40	60.00	50.00	-28.93	-32.60	Р	

APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP





APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT

TOP VIEW OF EUT

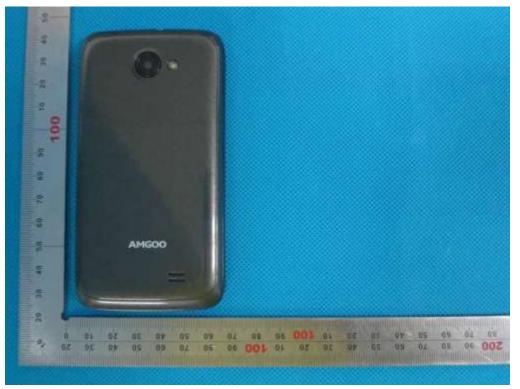




BOTTOM VIEW OF EUT

FRONT VIEW OF EUT





BACK VIEW OF EUT

LEFT VIEW OF EUT





RIGHT VIEW OF EUT

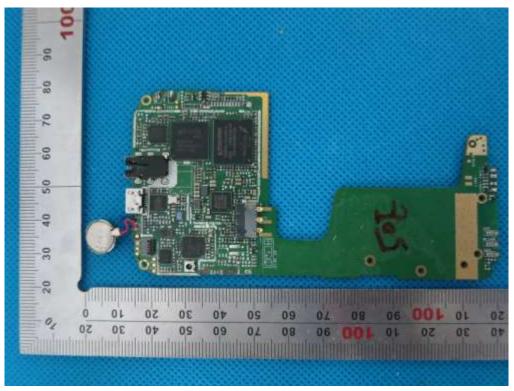




OPEN VIEW OF EUT-2

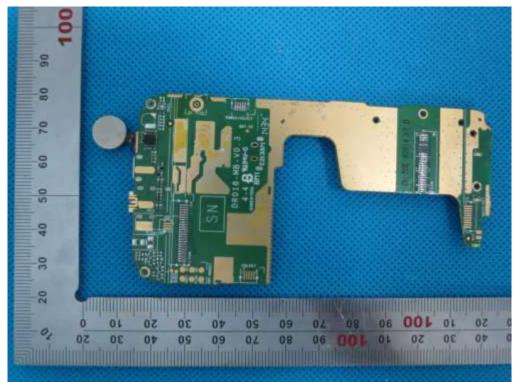
OPEN VIEW OF EUT-3





INTERNAL VIEW OF EUT-1

INTERNAL VIEW OF EUT-2



----END OF REPORT----