

FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Amino Communications Ltd

BCM dual band 2*2 WiFi

Model No.: 50-0102-BC-22

FCC ID: XVG500102BC22

Prepared for: Amino Communications Ltd

Buckingway Business Park Anderson Road Swavesey

Cambridgeshire CB24 4UQ

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Kefeng Road, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F19017

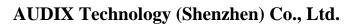
Date of Test : Jan.06~Feb.20,2019

Date of Report : Jun.26,2019



TABLE OF CONTENTS

Des	scription	on	Page
1.	SUN	MMARY OF STANDARDS AND RESULTS	5
	1.1.		
2.	GEN	NERAL INFORMATION	
_,	2.1.	Description of Device (EUT)	
	2.2.	Tested Supporting System Details.	
	2.3.	Block diagram of connection between the EUT and simulators	
	2.4.	Test Information	
	2.5.	Test Facility	9
	2.6.	Measurement Uncertainty (95% confidence levels, k=2)	9
3.	POV	WER LINE CONDUCTED EMISSION TEST	10
	3.1.	Test Equipments	10
	3.2.	Block Diagram of Test Setup	
	3.3.	Power Line Conducted Emission Test Limits	
	3.4.	Configuration of EUT on Test	
	3.5.	Operating Condition of EUT	
	3.6.	Test Procedure	
	3.7.	Power Line Conducted Emission Test Results	
4.	RAI	DIATED EMISSION TEST	13
	4.1.	Test Equipment	
	4.2.	Block Diagram of Test Setup	
	4.3.	Radiated Emission Limit	
	4.4.	EUT Configuration on Test	
	4.5.	Operating Condition of EUT	
	4.6.	Test Procedure	
_	4.7.	Radiated Emission Test Results	
5.		NDUCTED SPURIOUS EMISSIONS	
	5.1.	Test Equipment	
	5.2.	Limit	
	5.3.	Test Procedure	
	5.4.	Test result	
6.		ND EDGE COMPLIANCE TEST	
		Test Equipment	54
	6.2.	Limit	
	6.3.	Test Procedure	
	6.4.	Test Results	54
7.	6dB	Bandwidth Test	63
	7.1.	Test Equipment	
	7.2.	Limit	
	7.3.	Test Procedure	
	7.4.	Test Results	
8.	OU'	TPUT POWER TEST	68
	8.1.	Test Equipment	
	8.2.	Limit (FCC Part 15C 15.247 b(3))	
	8.3.	Test Procedure	
	8.4.	Test Results	
9.	POV	WER SPECTRAL DENSITY TEST	
	9.1.	Test Equipment	74





FCC ID: XVG500102BC22

	9.2. Limit	74
	9.3. Test Procedure	
	9.4. Test Results	75
10.	ANTENNA REQUIREMENT	80
	10.1. Standard Applicable	
	10.2. Antenna Connected Construction	80
11.	DEVIATION TO TEST SPECIFICATIONS	81
12.	PHOTOGRAPH OF TEST	82
	12.1. Photos of Power Line Conducted Emission Test	82
	12.2. Photos of Radiated Emission Test	83
13.	PHOTOS OF EUT	84



TEST REPORT CERTIFICATION

Applicant : Amino Communications Ltd

Manufacturer : Xavi Technologies Corp.

Product : BCM dual band 2*2 WiFi

FCC ID : XVG500102BC22

(A) Model No. : 50-0102-BC-22

(B) Serial No. : N/A

(C) Test Voltage : AC 120V/60Hz

Tested for comply with:

FCC CFR 47 Part 15 Subpart C

Test procedure used: ANSI C63.10: 2013 KDB 558074 D01v05

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Prepared by:

Brave Zhang / Assistant

Reviewed by:

Sunny Lu / Deputy Manager

Audix Technology (Shenzhen) Co., Ltd.

EMC 部門報告集用章

Stamp only for EMC Dept. Report

Signature:

Approved & Authorized Signer



1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION							
Description of Test Item	Standard	Results					
Power Line Conducted Emission	FCC Part 15: 15.207	PASS					
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.205	PASS					
Band Edge Compliance	FCC Part 15: 15.247(d)	PASS					
Conducted spurious emissions	FCC Part 15: 15.247(d)	PASS					
6dB Bandwidth	FCC Part 15: 15.247(a)(2)	PASS					
Peak Output Power	FCC Part 15: 15.247(b)(3)	PASS					
Power Spectral Density	FCC Part 15: 15.247(e)	PASS					
Antenna requirement	FCC Part 15: 15.203	PASS					



2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product : BCM dual band 2*2 WiFi

Model No. : 50-0102-BC-22

FCC ID : XVG500102BC22

Radio : IEEE802.11 a/b/g/n/ac

Operation : IEEE 802.11a:

Frequency 5180MHz—5240MHz; 5260MHz—5320MHz

5500MHz—5700MHz; 5745MHz—5825MHz

IEEE 802.11ac VHT20:

5180MHz—5240MHz; 5260MHz—5320MHz 5500MHz—5700MHz; 5745MHz—5825MHz

IEEE 802.11ac VHT40:

5190MHz—5230MHz; 5270MHz—5310MHz 5510MHz—5670MHz; 5755MHz—5795MHz

IEEE 802.11ac VHT80: 5210MHz, 5290MHz; 5530MHz—5610MHz;

5775MHz

IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE802.11nHT20: 2412MHz—2462MHz; 5180MHz—5240MHz; 5260MHz—5320MHz 5500MHz—5700MHz; 5745MHz—5825MHz IEEE802.11nHT40: 2422MHz—2452MHz 5190MHz—5230MHz; 5270MHz—5310MHz 5510MHz—5670MHz; 5755MHz—5795MHz

Modulation : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

Technology IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK)

IEEE 802.11ac VHT20, VHT40, VHT80: OFDM(16QAM, 64QAM,

256QAM, QPSK, BPSK)

IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)

Antenna : PCB Antenna,

Assembly Gain WIFI 2.4GHz:ANT 0:4dBi; ANT 1: 2.4dBi

WIFI 5GHz:ANT 0: 4.1dBi; ANT 1: 3.8dBi



Applicant : Amino Communications Ltd

Buckingway Business Park Anderson Road Swavesey Cambridgeshire

CB24 4UQ

Manufacturer : Xavi Technologies Corp.

No.468, Gutang Road, Wujiang City, Jiangsu Province, China

Manufacturer: MOSO M/N: MSA-C1000IC12.0-12W-DE;

Input: 100-240V~, 50/60Hz, 0.5A Max

Power Adapter : input: 100-240 v~, 50/6 Output: DC 12V, 1.0A

DC Cable: Unshielded, Detachable, 1.8m

Date of Test : Jan.06~Feb.20,2019

Date of Receipt : Nov.10,2018

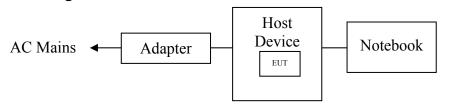
Sample Type : Prototype production



2.2.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1	1. Notebook	N/A	DELL	PP09S	N/A
1.		LAN Cable: Unshielded, Detachabled, 1.2m			

2.3.Block diagram of connection between the EUT and simulators



Note: Host device is set top box. (EUT: BCM dual band 2*2 WiFi)

2.4. Test Information

A special test software was used to control EUT work in Continuous TX mode(The duty cycle of the test signal is 100%), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information					
Mode	data rate	Channel	Frequency		
Mode	(Mbps)(see Note)		(MHz)		
	1	Low:CH1	2412		
IEEE 802.11b	1	Middle: CH6	2437		
	1	High: CH11	2462		
	6	Low:CH1	2412		
IEEE 802.11g	6	Middle: CH6	2437		
	6	High: CH11	2462		
	MCS0	Low:CH1	2412		
IEEE 802.11n HT20	MCS0	Middle: CH6	2437		
	MCS0	High: CH11	2462		
	MCS0	Low:CH3	2422		
IEEE 802.11n HT40	MCS0	Middle: CH6	2437		
	MCS0	High: CH9	2452		

Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note: 2. This is MIMO 2*2 device for 2.4GHz band, test compliance with KDB 662911 D01, The radiated emission and band edge tested with two antenna transmit simultaneously.



2.5. Test Facility

Site Description

Audix Technology (Shenzhen) Co., Ltd.

Name of Firm : No. 6, Kefeng Road, Science & Technology Park,

Nanshan District, Shenzhen, Guangdong, China

EMC Lab. Certificated by Industry Canada
EMC Lab. Registration Number: IC 5183A-1

Valid Date: May.07, 2020

Certificated by DAkkS, Germany

: Registration No: D-PL-12151-01-00

Valid Date: Dec.07, 2021

Accredited by NVLAP, USA

: NVLAP Code: 200372-0

Valid Date: Mar.31, 2019

Certificated by FCC USA.

Designation No.: CN5022 Valid Date: Mar.31, 2019

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty		
Uncertainty for Conduction emission test in No. 1 Conduction	2.6dB (150kHz to 30MHz)		
	4.0dB(30~200MHz, Polarization: H)		
Uncertainty for Radiation Emission test	4.0dB(30~200MHz, Polarization: V)		
in 3m chamber	4.4dB(200M~1GHz, Polarization: H)		
	4.4dB(200M~1GHz, Polarization: V)		
Lincontainty for Dadiction Emission toot in	5.0dB (1~6GHz, Distance: 3m)		
Uncertainty for Radiation Emission test in 3m chamber	5.4dB (6~18GHz, Distance: 3m)		
3111 Chamber	5.4dB (Above 18GHz, Distance: 3m)		
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6dB		
Uncertainty for Conduction Spurious emission test	2.0dB		
Uncertainty for Output power test	0.8dB		
Uncertainty for Bandwidth test	83kHz		
Uncertainty for DC power test	0.1 %		
Uncertainty for test site temperature and	0.6℃		
humidity	3%		

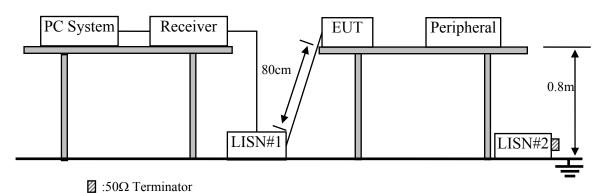


3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	May.17,18	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.23,18	1 Year
3.	L.I.S.N	Rohde & Schwarz	ENV216	102160	Dec.01,18	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.23,18	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.23,18	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.23,18	1 Year
7.	RF Cable	Fujikura	RG-55/U	No.2	Apr.23,18	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.23,18	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
Note:	N/A means Not applical	ble.				

3.2.Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	dB(µV)	dB(μV)			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
$500kHz \sim 5MHz$	56	46			
$5MHz \sim 30MHz$	60	50			

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.



3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. BCM dual band 2*2 WiFi (EUT)

Model No. : 50-0102-BC-22

Serial No. : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipments.
- 3.5.3. PC run test software to control EUT work in Tx (WiFi 2.4GHz) mode.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

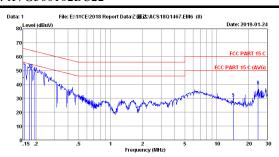
The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

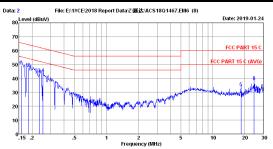




Site no :1# CE Data No :1
Dis/Jism :2018 ENV216-L
Limit :PCC PARY 15 C
Env./Ins. :23.24C/S64
Env./Ins. :23.24C/S64
Power Rating :AC :120W 60Hz
Test Mode :22.46 ITR

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.155	9.40	0.16	42.19	51.75	65.74	13.99	QP
2	0.174	9.40	0.16	41.50	51.06	64.77	13.71	QP
3	0.182	9.40	0.17	41.38	50.95	64.42	13.47	QP
4	0.194	9.40	0.17	39.52	49.09	63.84	14.75	QP
5	14.364	9.59	0.18	20.22	29.99	60.00	30.01	QP
6	24.529	9.60	0.19	29.28	39.07	60.00	20.93	QP

Remarks: 1.Emission Level*LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :1# CE Data No :2
Dis/Jism 12018 ENV216-N
Limit :PCC PART 15 C
ENV/Ins. 123.2 C/Se6
ENV2/Ins. 123.2 C/Se7
ENV/Ins. 123.2 C/Se7

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.158	9.40	0.16	39.85	49.41	65.56	16.15	QP
2	0.186	9.40	0.17	38.03	47.60	64.20	16.60	QP
3	0.234	9.40	0.17	33.80	43.37	62.30	18.93	QP
4	0.253	9.40	0.18	34.11	43.69	61.64	17.95	QP
5	18.426	9.67	0.18	23.48	33.33	60.00	26.67	QP
6	24.529	9.75	0.19	27.77	37.71	60.00	22.29	QP

Remarks: 1.Emission Level*LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



4. RADIATED EMISSION TEST

4.1.Test Equipment

4.1.1. For frequency range 30MHz~1000MHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval			
1.	3#Chamber	AUDIX	N/A	N/A	Jun.19,18	1 Year			
2.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.23,18	1 Year			
3.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.23,18	1 Year			
4.	Amplifier	HP	8447D	2648A04738	Apr.23,18	1 Year			
5.	Tri-log-Broadband Antenna	Schwarzbeck	VULB 9168	710	Aug.22,18	1 Year			
6.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Dec.01,18	1 Year			
7.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.23,18	1 Year			
8.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A			
Note:	Note: N/A means Not applicable.								

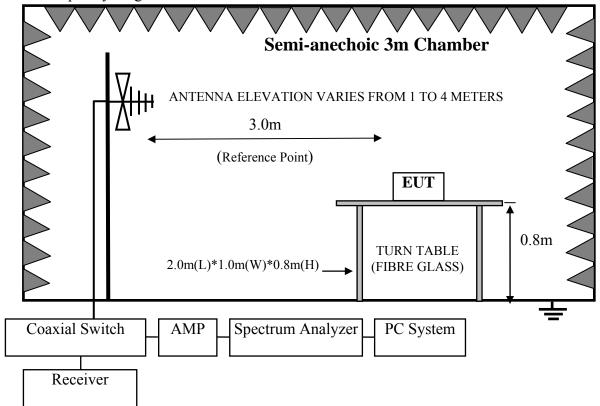
4.1.2. For frequency range 1GHz~25GHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval			
1.	3#Chamber	AUDIX	N/A	N/A	May.17,18	1 Year			
2.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.23,18	1 Year			
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	May.30,18	1 Year			
4.	Horn Antenna	ETS	3116	00060089	Dec.13,18	1 Year			
5.	Amplifier	Agilent	83017A	MY53270084	Oct.14,18	1 Year			
6.	RF Cable	Hubersuhner	SUCOFLEX106	505239/6	Apr.23,18	1 Year			
7.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A			
Note:	Note: N/A means Not applicable.								

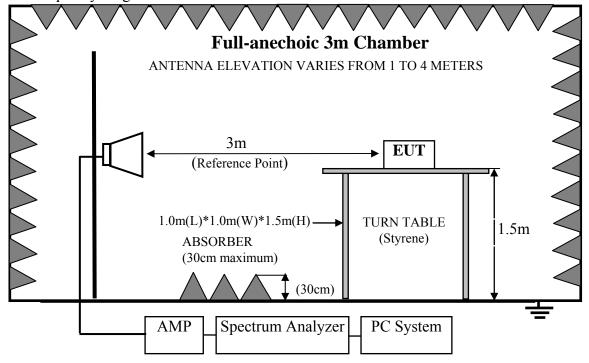


4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz





4.3. Radiated Emission Limit

4.3.1.15.247&209 limits

FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT	
MHz	Meters	μV/m	dB(μV)/m	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500	54.0	
Above 1000	3	74.0 dB(µV)/m (Peak)		
		$54.0 \text{ dB}(\mu\text{V})/\text{m} \text{ (Average)}$		

Remark : (1) Emission level dB μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.4.EUT Configuration on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

4.4.1. BCM dual band 2*2 WiFi (EUT)

Model No. : 50-0102-BC-22

Serial No. : N/A

4.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.



4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3. Let EUT work in Tx(WiFi 2.4GHz) mode

4.6. Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horm antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as test photo indicated.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

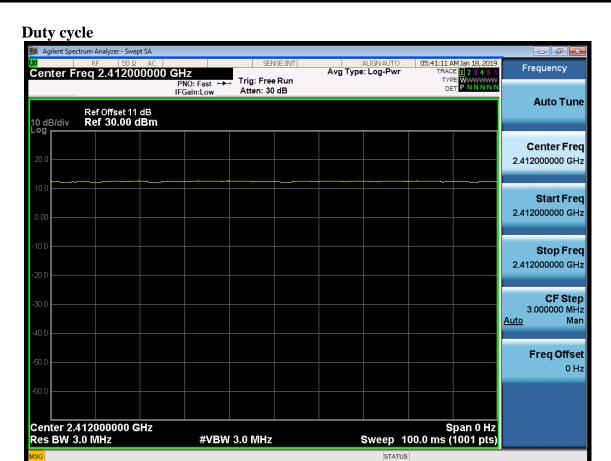
PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note 1: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

Note 2: The emissions (9kHz~30MHz) not reported for there is no emission be found.



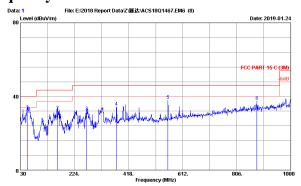


Note: The duty cycle of the test signal is 100%.

FCC ID: XVG500102BC22

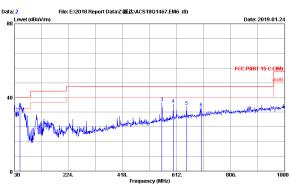
AUDIX Technology (Shenzhen) Co., Ltd.

Frequency: 30MHz~1GHz



| No. | Freq. | Factor | Loss | Reading | Limits | Hargin | Remark | Cable | Loss | Reading | Cable |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

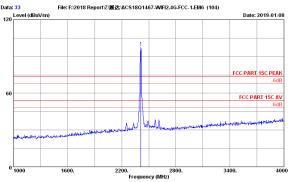


No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	19.10	0.58	9.30	28.98	40.00	11.02	QP
2	49.500	20.40	0.75	11.60	32.75	40.00	7.25	QP
3	559.620	25.00	3.68	8.64	37.32	46.00	8.68	QP
4	600.360	25.90	3.88	6.45	36.23	46.00	9.77	QP
5	647.890	26.30	4.08	4.81	35.19	46.00	10.81	QP
6	700.270	27.00	4.29	2.94	34.23	46.00	11.77	QP



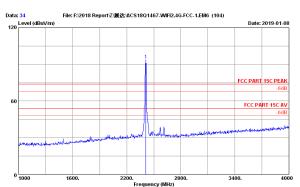


Frequency: 1GHz~18GHz



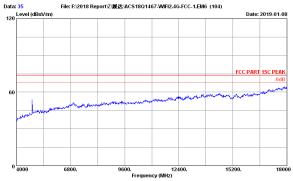
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	28.08	10.31	91.83	32.53	97.69	74.00	-23.69	Peak

Remarks: 1. Emission Level* Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.

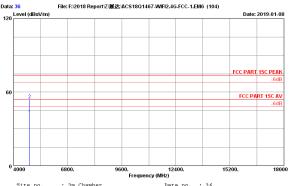


No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	28.08	10.31	87.69	32.53	93.55	74.00	-19.55	Peak

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



| Site no. | 3 m Chamber | Data no. | 35 m Chamber | 35 m Chamb



No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.00	33.68	14.56	23.68	30.79	41.13	54.00	12.87	Average
2	4824.00	33.68	14.56	36.48	30.79	53.93	74.00	20.07	Peak
	Danie andrea	4 Post of the	· · -		W			Description of	

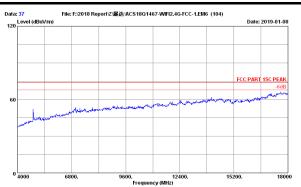


Date: 2019-01-08

FCC PART 15C AV

File: F:\2018 Report\Z\展达\ACS18Q1467-WIFI2.4G-FCC-1.EM6 (104)

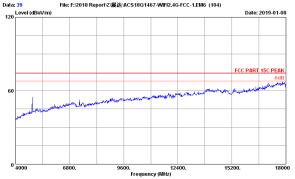
120 Level (dBuV/m)

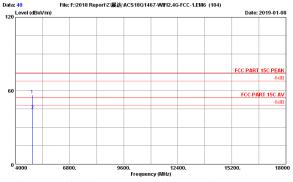


9600. 1 Frequency (MHz)

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2	4812.00 4812.00	33.60 33.60	14.54 14.54	24.57 36.68	30.79 30.79	41.92 54.03	54.00 74.00	12.08 19.97	Average Peak	

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.

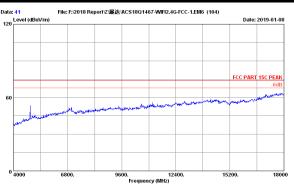


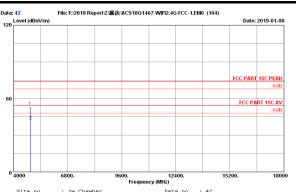


Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : HORIZO
Limit : FCC PART 1SC PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Garry
EUT : BCM dual band 2*2 WIFI M/N:50-0102-BC-22
Power rating : AC 12076/60Hz
Test Mode : 11b 2437MHz Tx Mode

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4868.00	33.89	14.63	38.68	30.76	56.44	74.00	17.56	Peak
	4874.00	33.89	14.63	26.14	30.76	43.90	54.00	10.10	Average



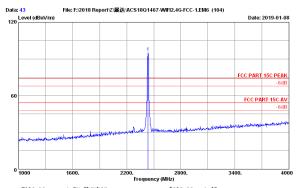




Site no. : 3m Chamber Dist. / Ant. : 42
Dist. / Ant. : 5m 2018 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/52.99 Engineer : Garry
ETV : BCM dual band 2°2 WIFI M/N:50-0102-BC-2'
Power rating : AC 120V/50Hz
Text Mode : LiD 243/TMHZ TX Mode

No. Freq. | Freq. | Freq. | Freq. | Freq. | Fred. | Freq. | Fred. | Fr

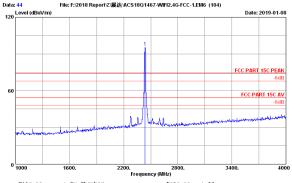
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber
Dis. / Ant. : 3m 2018 MCTD1209-3006
Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/S2.94
ETV : SCH dual band 2°2 WIFI M/N:50-0102-BC-22
Power rating : AC 12007/609b
Test Mode : 11D 2437MHz Tx Mode

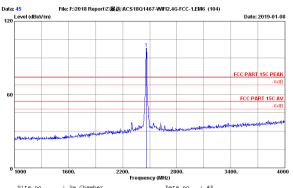
| Ant. | Cable | Amp Emission | Cable | Amp Emission | Cable | Amp Emission | Cable |

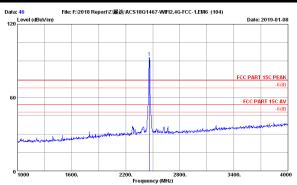
Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.



No. Freq. Factor Loss Reading factor Level Limits Margin Remark (dB/m) (dB/m) (dB) 89.77 32.53 95.75 74.00 -21.75 Peak



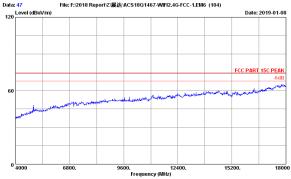




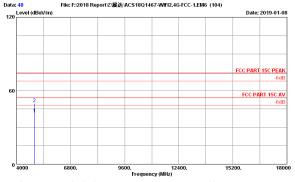
Site no. | Sim Chamber | Data no. | 1.46
Dis. / Ant. | Sim | 2018 MCTD1209-3006 | Ant. pol. | VERTICAL
Limit | FCC PART 15C PEAK
Env. / Ins. | 23.4°C/52.94 | Engineer | Garry
ETU | SCM dual band 2°2 WIFI M/N:50-0102-BC-22
Power rating | &C 12007/50Hz
Test Mode | 11D 2462HHZ TX Mode

No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dB/m) (dB) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m)

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.47c/52.94 Enginee : Garry
EUT : BCM dual band 2-2 WIFI M/N:50-0102-BC-22
Power rating : &C 12007 60Hs
Test Mode : 11b 2462HHz Tx Mode



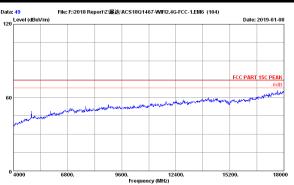
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4924.00	34.11	14.71	23.17	30.73	41.26	54.00	12.74	Average
	4924.00	34.11	14.71	31.34	30.73	49.43	74.00	24.57	Peak

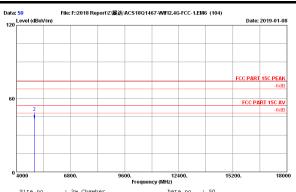
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.

-Amp factor.

 The emission levels that are 20dB below the official limit are not reported.

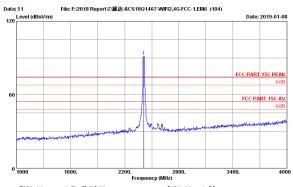






No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2		34.11 34.11	14.71 14.71	24.26 30.66	30.73 30.73	42.35 48.75	54.00 74.00	11.65 25.25	Average Peak	

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.

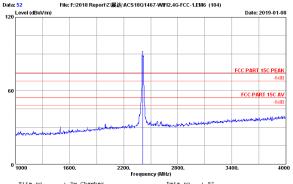


Site no. : 3m Chamber Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : HORIZONTAL Limit : FCC PART ISC PEAR Engineer : Garry Env. / Ins. : 23.4°C/S2.9% Engineer : Garry Env. / Ins. : BCR dual bala 2°2 WIFI M/N: SO-0102-BC-22 Power rating : Ac 1004/9MB To Mode | 11g 24/28/Hz Tx Mode

No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dB) (dBuV) (dB) (dB) (dBuV/m) (dBuV/m) (dBuV/m) (dB)

1 2412.00 28.08 10.31 85.39 32.53 91.25 74.00 -17.25 Peak

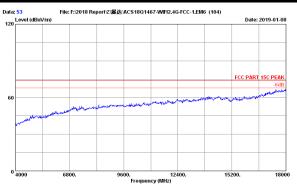
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.

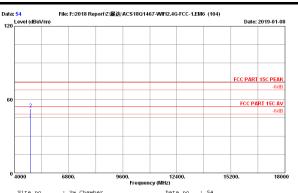


Site no. : 3m Chamber
Dis. / Ant. : 3m 2018 MCTD1209-3006
Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/S2.94
ET : SCH dual band 2°2 WIFI M/N:50-0102-BC-22
Power rating : AC 12007 60Hz
Test Mode : 11g 2412HHz Tx Mode

| No. Freq. | Ant. | Cable | Cable | Factor | Loss | Reading | Factor | Level | Limits | Margin | Remark | (dBv/m) |

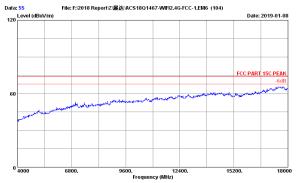


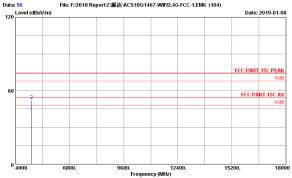




No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4824.00	33.68	14.56	25.47	30.79	42.92	54.00	11.08	Average
	4824.00	33.68	14.56	35.16	30.79	52.61	74.00	21.39	Peak

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.

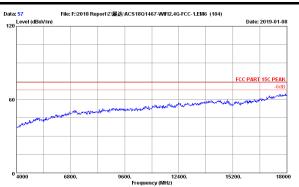




Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : HORIZO
Limit : FCC PART 1SC PEAK
Env. / Ins. : 23.4*C/52.9% Engineer : Garry
EUT : BCM dual band 2*2 WIFI M/N:50-0102-BC-22
Power rating : AC 120V/60Hz
Test Mode : 11g 2412MHz Tx Mode

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4824.00	33.68	14.56	24.38	30.79	41.83	54.00	12.17	Average
	4824.00	33.68	14.56	34.67	30.79	52.12	74.00	21.88	Peak

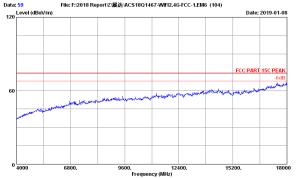


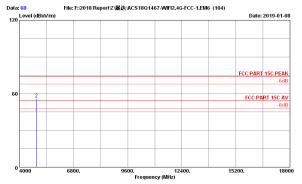




lo.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)		Limits (dBuV/m)	Margin (dB)	Remark	
1 2		33.89 33.89	14.63 14.63	26.38 35.17	30.76	44.14 52.93	54.00 74.00	9.86	Average Peak	

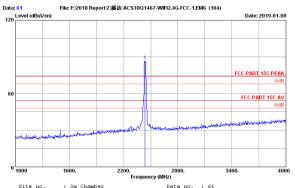
Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.

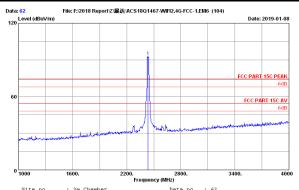




No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4874.00	33.89	14.63	25.50	30.76	43.26	54.00	10.74	Average
	4874.00	33.89	14.63	38.07	30.76	55.83	74.00	18.17	Peak



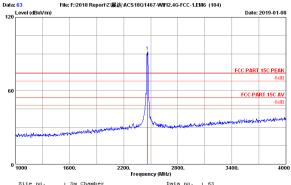




No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dB/m) (dB) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m)

1 2437.00 28.13 10.38 86.77 32.53 92.75 74.00 -18.75 Peak

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.

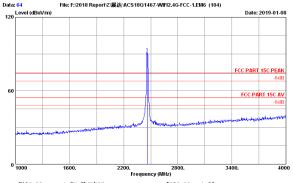


Site no. : 3m Chamber Data no. : 63
Dis./Ant. : 3m 2018 MCTD1209-3006 Ant.pol. : HORIZONTAL
Limit : FCC PART ISC PEAK
Env. / Ins. : 23.4°C/52.99
Env. / Ins. : 23.4°C/52.99
Fower rating : A0 1207/90Hz
Power rating : 10 1207/90Hz
Fower rating : 11g 4422Hz Tx Hode

Ant. Cable Amp Emission
o. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dBuV) (dB) (dB) (dBuV/m) (dB) (dBuV/m) (dB)

1 2462.00 28.15 10.42 85.97 32.51 92.03 74.00 -18.03 Peak

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.

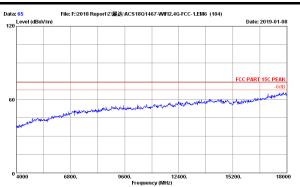


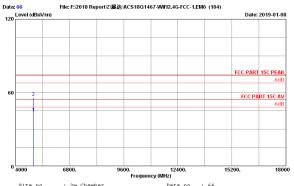
Site no. : 3m Chamber Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : HORIZONTAL Limit : FCC PART 15C PEAK Env. / Ins. : 23.4°C/52.9% Engineer : Garry EUT : BCM dual band 2*2 WIFI H/N: 50-0102-BC-22 Fower rating : AC 12007/60Hz Test Mode : 11g 24621Mlz Tx Mode

No. Freq. Factor Loss Reading factor Level Limits Margin Remark

(HHt) (dB/m) (dB) (dBud/m) (dB) (dBud/m) (dBud/m) (dBud/m) (dBud/m) (dBud/m) (dBud/m) (dBud/m)



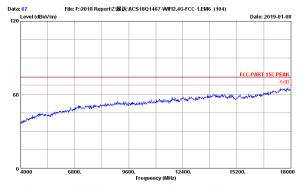




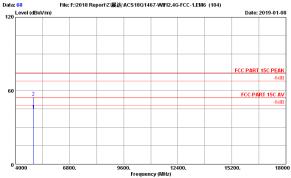
| Site no. | Sim Chamber | Data no. | 66 |
| Dis. / Ant. | Sim | 2018 | MCTD1209-3006 | Ant. | pol. | HORIZO
| Limit | FCP PART 15C PEAK | Engineer | Garry
| EUT | Sim | Sim

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4924.00	34.11	14.71	25.47	30.73	43.56	54.00	10.44	Average
	4924.00	34.11	14.71	38.14	30.73	56.23	74.00	17.77	Peak

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



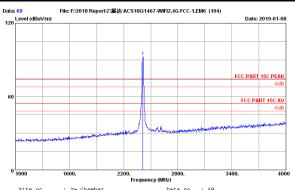
| Site no. | Sim Chamber | Data no. | 67
Dis. / Ant.	Sim	2018 MCTD1209-3006	Ant. pol.	VERTICAL
Limit	FCC FART 15C FEAK	Engineer	Garry	
EUT	Side dual band 2.72 WIFI M/N:50-0102-BC-22			
Fower rating	AC 120VGOBE			
Test Mode	Ilig 2462MHz Tx Mode	Research		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.		
Side No.	Side No.	Side No.	Side No.	
Side No.	Side No.	Side No.	Side No.	
Side No.	Side No.	Side No.	Side No.	
Side No.	Side No.	Side No.	Side No.	
Side No.	Side No.	Side No.	Side No.	
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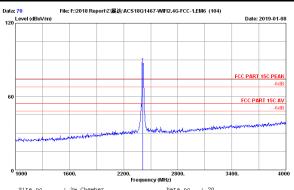


Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2018 MCD1209-3006 Ant. pol. : VERTIC
Limit : FCC PART 1SC PEAK
Env. / Ins. : 23.4*C/52.9\ Engineer : Garry
EUT : BCM dual band 2*2 VIFI M/N:50-0102-BC-22
Power rating : AC 120V/60Hz
Test Mode : 11g 2462MHz Tx Mode

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4924.00	34.11	14.71	26.04	30.73	44.13	54.00	9.87	Average
	4924.00	34.11	14.71	36.71	30.73	54.80	74.00	19.20	Peak



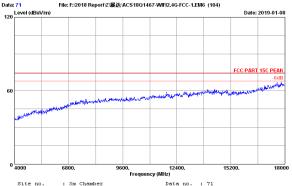




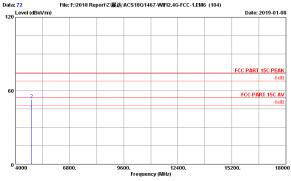
No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dB/m) (dB) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m)

1 2412.00 28.08 10.31 81.24 32.53 87.10 74.00 -13.10 Peak

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.47c/52.94 Enginer : Garry
EUT : BCM dual band 2-2 WIFI M/N:50-0102-BC-22
Power rating : &C 1200760Hs
Test Mode : LinHT20 2412HHz Tx Mode



Site no. : 3m Chamber
Dis. / Ant. : 3m 2018 MCTD1209-3006
Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAR
Env. / Ins. : 23.44C/52.94
EUT : BCM dual band 2°2 WIFI M/N:50-0102-BC-22
Power rating : AC 1200/60Hz
Test Mode : LinHT02 C412EHz Tx Mode

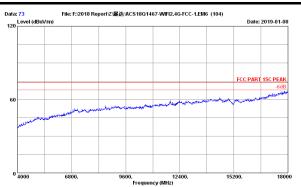
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2		33.68 33.68	14.56 14.56	26.03 35.28	30.79 30.79	43.48 52.73	54.00 74.00	10.52	Average Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.

-Amp factor.

 The emission levels that are 20dB below the official limit are not reported.

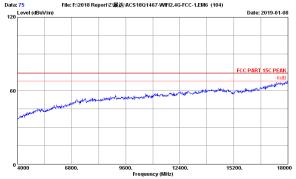


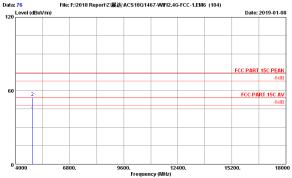




No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) 4824.00 33.68 14.56 25.12 30.79 42.57 54.00 4824.00 33.68 14.56 36.11 30.79 53.56 74.00

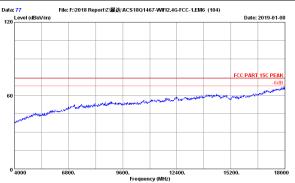
Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.

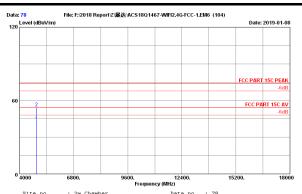




No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2		33.89 33.89	14.63 14.63	25.14 36.86	30.76 30.76	42.90 54.62	54.00 74.00	11.10 19.38	Average Peak

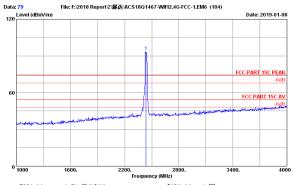






No. Freq. Factor Loss Reading factor Level Limits Margin Remark (dB/m) (dB/m) (dBuV) (dB w) (dBuV) (dB w) (dBuV/m) (dBuV

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



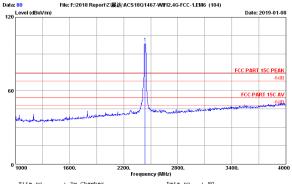
Site no. : 3m Chamber
Dis. / Ant. : 3m 2018 MCTD1209-3006
Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAR
Env. / Ins. : 23.44C/52.94
EUT : BCM dual band 2°2 WIFI M/N:50-0102-BC-22
Power rating : AC 1200/60Hz
Test Mode : LinHT02 4247HHz Tx Mode

No. Freq. Factor Loss Reading factor Level Limits Margin Remark

(MHz) (dB/m) (dB) (dB) (dBuV) (dB) (dB) (dBuV/m) (dBuV/m) (dBvV/m) (dB)

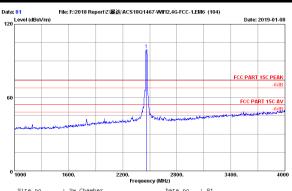
1 2437.00 28.13 10.38 87.59 32.53 93.57 74.00 -19.57 Peak

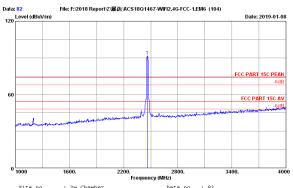
Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.



No. Freq. Factor Loss Reading factor Level Limits Margin Remark (dB/m) (dB/m) (dB) 92.93 32.53 98.91 74.00 -24.91 Peak

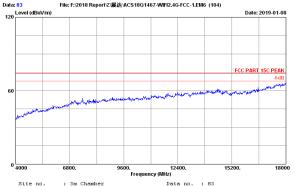




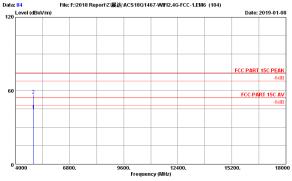


Site no.	13m Chamber	Data no.	182	
Dis. / Ant.	13m	2018 MCTD1209-3006	Ant. pol.	VERTICAL
Limit	FCC PART 15C PRAK			
Env. / Ins.	123.4°C/52.94	Engineer	Garry	
ETU	18CM dual band 2°2 WIFI M/N:50-0102-BC-22			
Power rating	26 12007/5018			
Eat Mode	11inHT20 2462HMR TX Mode			

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.47c/52.94 Enginer : Garry
EUT : BCM dual band 2-2 WIFI M/N:50-0102-BC-22
Power rating : &C 1200760Hs
Test Mode : LinHT20 2462HHz Tx Mode



No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4924.00 4924.00	34.11 34.11	14.71 14.71	25.84 38.36	30.73	43.93 56.45	54.00 74.00	10.07 17.55	Average Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.

-Amp factor.

 The emission levels that are 20dB below the official limit are not reported.



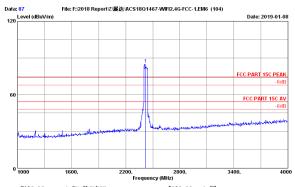


File: F:\2018 Report\Z\展达\ACS18Q1467-WIFI2.4G-FCC-1.EM6 (104) 120 Level (dBuV/m) Date: 2019-01-08 FCC PART 15C AV 9600. Frequency (MHz)

| Site no. | Sim Chamber | Data no. | Side N

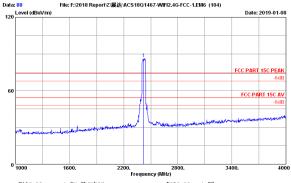
No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) 4924.00 34.11 14.71 26.14 30.73 44.23 54.00 4924.00 34.11 14.71 38.04 30.73 56.13 74.00

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber
Dis. / Ant. : 3m 2018 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4+C/S2.94
ET : SCH dual band 2*2 WIFI M/N:50-0102-BC-22
Power rating : AC 1200760Hz
Test Mode : LimitHu 24422HkT Tx Mode

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.

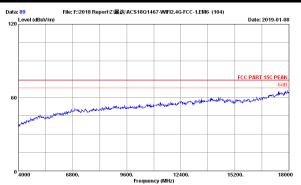


Site no. : 3m Chamber Dis. / Ant. : 3m 2018 MCTD129-3006 Ant.pol. : HORIZONTAL Limit : FCC PART 15C PEAK Env. / Ins. : 23.4°C/82.9% Enginer : Garry EUT : BCM Must band 2°2 WIFI H/N:50-0102-BC-22 Power rating : AC 120V/60Hz Test Mode : 11mTM2 422MHz Tx Mode

No. Freq. Factor Loss Reading factor Level Limits Margin Remark

(HHt) (dB/m) (dB) (dBud/m) (dB) (dBud/m) (dBud/m) (dBud/m) (dBud/m) (dBud/m) (dBud/m) (dBud/m) (dBud/m)



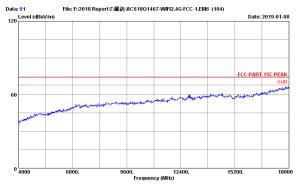


File: F:\2018 Report\Z\展达\ACS18Q1467-WIFI2.4G-FCC-1.EM6 (104) 120 Level (dBuV/m) Date: 2019-01-08 FCC PART 15C AV 9600. 1 Frequency (MHz)

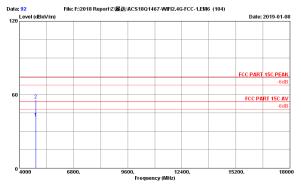
| Site no. | Sim Chamber | Data no. | Sign Chamber | Sign Chamb

No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) 4844.00 33.75 14.59 24.70 30.77 42.27 54.00 4844.00 33.75 14.59 35.63 30.77 53.20 74.00 11.73 20.80

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.



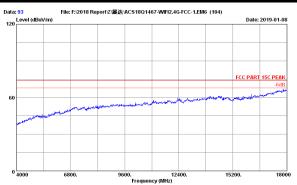
Site no. : 3m Chamber
Dis. / Ant. : 3m 2018 MCTD1209-3006
Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAR
Env. / Ins. : 23.44C/52.94
EUT : BCM dual band 2°2 WIFI M/N:50-0102-BC-22
Power rating : AC 1200/60Hz
Test Thode : 11mHTM 2442EMHz Tx Mode

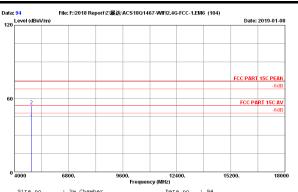


Site no. : 3m Chamber
Dis. / Ant. : 3m 2018 MCTD1209-3006
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4+C/S2.94
Env. / Ins. : 23.4+C/S2.94
Fower rating : AC 120076088
Fower rating : AC 120076088
Test Mode : limitFul 4242Hkt Tx Mode

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4844.00	33.75	14.59	23.63	30.77	41.20	54.00	12.80	Average
	4844.00	33.75	14.59	38.30	30.77	55.87	74.00	18.13	Peak



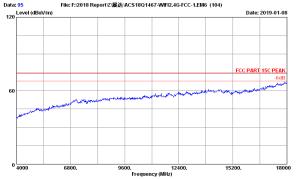




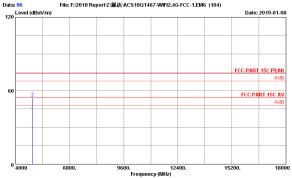
Site no. : 3m Chamber Dis. / Ant. : 94
Dis. / Ant. : 5m 2018 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23.4°C/52.99 Engineer : Garry
EUT : BCM dual band 2°2 WIFI M/N:50-0102-BC-2'
Power rating : AC 12007/6012
Text Toole : LimitFid 2437HM: TX Mode

No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dBuV) (dB) (dBuV/m) (dBuV/m) (dBuV/m) 4874.00 33.89 14.63 25.14 30.76 42.90 54.00 4874.00 33.89 14.63 36.35 30.76 54.11 74.00 11.10 19.89

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.

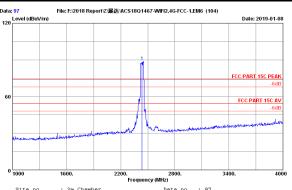


Site no. : 3m Chamber Dis. / Ant. : 95 Dis. / Ant. : 98 2018 MCTD129-3006 Ant.pol. : HORIZONTAL Limit : FCC PART 15C PEAK Env. / Ins. : 23.4°C/52.9% Enginer : Garry EUT : BCM Must band 2°2 WIFI H/N:50-0102-BC-22 Power rating : AC 120V/60Hz Test Mode : 11mHTM 2 437MHE TX Mode



No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4874.00	33.89	14.63	24.20	30.76	41.96	54.00	12.04	Average
	4874.00	33.89	14.63	36.35	30.76	54.11	74.00	19.89	Peak





Ant. Cable Amp Emission

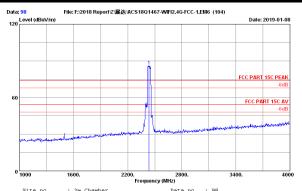
No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHr) (dB/m) (dB) (dBV/) (dB) (dBV/m) (dBuV/m) (dBV/m) (dB)

1 2437.00 28.13 10.38 82.66 32.53 88.64 74.00 -14.64 Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

Amp factor.

2. The emission levels that are 20dB below the official limit are not reported.

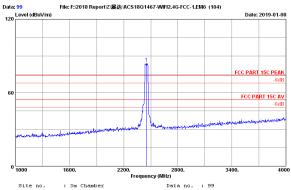


Site no.	3 m Chamber	Data no.	98	
Dis. / Ant.	3 m	2018 MCTD1209-3006	Ant. pol.	VERTICAL
Limit	FCC PART 15C PRAK			
Env. / Ins.	23.4°C/52.94	Engineer	Garry	
ETU	SCM dual band 2°2 WIFI M/N:50-0102-BC-22			
Power rating	&C 12007/5018			
Eat Mode	1 limitFul 2437HMLT IX Mode			

No. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dB/m) (dB) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m) (dB/m)

1 2437.00 28.13 10.38 79.83 32.53 85.81 74.00 -11.81 Peak

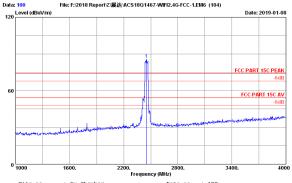
Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official
limit are not reported.



Ant. Cable Amp Emission
o. Freq. Factor Loss Reading factor Level Limits Margin Remark
(MHz) (dB/m) (dB) (dBuV) (dB) (dBuV/m) (dBuV/m) (dBuV/m) (dB)

1 2452.00 28.13 10.38 78.34 32.51 84.34 74.00 -10.34 Peak

Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.

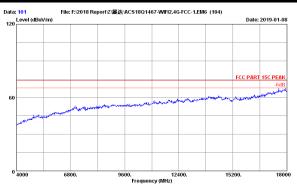


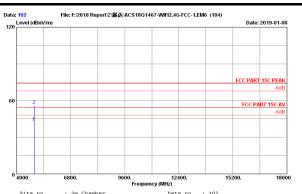
Site no. : 3m Chamber Data no. : 100
Dis. / Ant. : 3m 2018 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAR
Env. / Ins. : 23.44C/52.94 Engineer : Garry
EUT : BCM dual band 2°2 WIFI M/N:50-0102-BC-22
Power rating : AC 1200/60Hz
Test Thode : LinHT40 2452Hz Tx Mode

No. Freq. Factor Loss Reading factor Level Limits Margin Remark

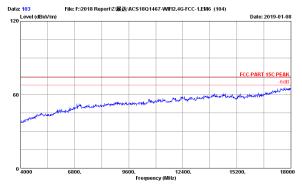
(HHt) (dB/m) (dB) (dBud/m) (dB) (dBud/m) (dBud

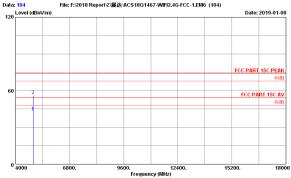






Remarks: 1. Emission Level- Antenna Factor + Cable Loss + Reading -Amp factor. 2. The emission levels that are 20dB below the official limit are not reported.





No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	4904.00	34.04	14.68	24.57	30.74	42.55	54.00	11.45	Average
	4904.00	34.04	14.68	38.22	30.74	56.20	74.00	17.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.

-Amp factor.

2. The emission levels that are 20dB below the official limit are not reported.



5. CONDUCTED SPURIOUS EMISSIONS

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMC Analyzer	Agilent	N9030A	MY51380221	Sep.08,18	1 Year
2.	Attenuator	Agilent	8491B	MY39269170	Oct.14,18	1 Year
3.	RF Cable	EMCI	EMC102-KM-KM- 3500	170702	Oct.14,18	1 Year

5.2.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions with peak detector.

5.4. Test result

PASS (The testing data was attached in the next pages.)







