FCC RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C

FCC Part 15.247 **Test Standard FCC ID** 2AKZA-PICOIMX6

Brand name TechNexion

WiFi+Bluetooth 4.0(HS) System on Module Product name

Model No. PICO-IMX6

Test Result Pass

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.(Wugu Laboratory)



Testing Laboratory 1309

Report No.: T171128D01-RP1

Approved by: Tested by:

Sam Chuang Manager

Jerry Chuang Engineer

erry Chang

Revision History

Rev.	Issue Date	Revisions	Revised By
00	December 14, 2017	Initial Issue	May Lin
01	January 4, 2018	 Revised INSTRUMENT CALIBRATION: Page 7, 8. Revised test result tables: Page 18. Added 99% OBW plots: Page 19, 21, 23. 	May Lin

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	TECHNEXION LTD. 16f-5, No.736, Zhongzheng Road, Zhonghe Dist., New Taipei City, 23511 Taiwan ROC
Manufacturer	TECHNEXION LTD. 16f-5, No.736, Zhongzheng Road, Zhonghe Dist., New Taipei City, 23511 Taiwan ROC
Equipment	WiFi+Bluetooth 4.0(HS) System on Module
Model No.	PICO-IMX6
Model Discrepancy	N/A
Received Date	November 28, 2017
Date of Test	December 2 ~ 8, 2017
Output Power(W)	IEEE 802.11b mode: 0.0574 IEEE 802.11g mode: 0.1963 IEEE 802.11n HT 20 MHz mode: 0.1671
Power Supply	Powered from host device: DC 5V

1.2 EUT CHANNEL INFORMATION

Frequency Range	2412MHz-2462MHz
Modulation Type	1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT 20 MHz mode: OFDM
Bandwidth	1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode: 11 Channels

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Remark:

Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested					
Frequency range in Number of Location in frequency which device operates frequencies range of operation					
☐ 1 MHz or less	1	Middle			
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom			
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom			

1.3 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☐ PCB ☒ Dipole ☐ Coils
Antenna Gain	Gain: 3.5dBi

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 2.96
Emission bandwidth, 20dB bandwidth	+/- 1.4003
RF output power, conducted	+/- 1.1372
Power density, conducted	+/- 1.4003
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683
3M Semi Anechoic Chamber / 40G~60G	+/- 1.8509
3M Semi Anechoic Chamber / 60G~75G	+/- 1.9869
3M Semi Anechoic Chamber / 75G~110G	+/- 2.9651
3M Semi Anechoic Chamber / 110G~170G	+/- 2.7807
3M Semi Anechoic Chamber / 170G~220G	+/- 3.6437
3M Semi Anechoic Chamber / 220G~325G	+/- 4.2982

Remark:

^{1.} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

^{2.} ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Eric Lee	-
Radiation	Jerry Chuang	-
RF Conducted	Jerry Chuang	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site							
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due		
Power Meter	Anritsu	ML2495A	1012009	07/03/2017	07/02/2018		
Power Sensor	Anritsu	MA2411B	917072	07/03/2017	07/02/2018		
Spectrum Analyzer	R&S	FSV 40	101073	10/02/2017	10/01/2018		
Directional Coupler	Agilent	87301D	MY44350252	07/25/2017	07/24/2018		
SUCOFLEX Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	07/31/2017	07/30/2018		
Divider	Solvang Technology	2-18GHz 4Way	STI08-0015	07/26/2017	07/25/2018		

3M 966 Chamber Test Site							
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due		
Bilog Antenna	Sunol Sciences	JB3	A030105	06/20/2017	06/19/2018		
Horn Antenna	EMCO	3117	00055165	02/20/2017	02/19/2018		
Horn Antenna	ETS LINDGREN	3116	00026370	01/12/2017	01/11/2018		
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	01/10/2017	01/09/2018		
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	01/10/2017	01/09/2018		
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	01/10/2017	01/09/2018		
Pre-Amplifier	EMCI	EMC 012635	980151	08/01/2017	07/31/2018		
Pre-Amplifier	EMEC	EM01M26G	60570	08/01/2017	07/31/2018		
Pre-Amplifier	EMEC	EM330	060609	06/07/2017	06/06/2018		
Spectrum Analyzer	Agilent	E4446A	US42510252	11/27/2017	11/26/2018		
Loop Ant	COM-POWER	AL-130	121051	03/02/2017	03/01/2018		
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R		
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R		
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R		
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/25/2017	04/24/2018		

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AC Conduction Test Room						
Name of Equipment Manufacturer Model S/N Cal Date Cal Due						
LISN	R&S	ENV216	101054	05/18/2017	05/17/2018	
LISN	SCHWARZBECK	NSLK 8127	8127-541	02/14/2017	02/13/2018	
EMI Test Receiver	R&S	ESCI	100064	05/17/2017	05/16/2018	
SUCOFLEX Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	07/31/2017	07/30/2018	

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Remark:

- 1. Each piece of equipment is scheduled for calibration once a year and Precision Dipole is scheduled for calibration once three years.
- 2. N.C.R. = No Calibration Request.

N/A

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

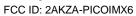
No. Equipment Brand Model Series No. FCC ID

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Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	
1.	NB(G)	Lenovo	IBM 1951	N/A	CJ6UPA3489WL	

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074 D01 v04.



2. TEST SUMMERY

FCC Standard Report Section		Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a) 4.1		AC Conducted Emission	Pass
15.247(a)(2) 4.2		6 dB Bandwidth	Pass
15.247(b) 4.3		Output Power Measurement	Pass
15.247(e) 4.4		Power Spectral Density	Pass
15.247(d) 4.5		Conducted Band Edge	Pass
15.247(d)	4.5	Conducted Emission	Pass
15.247(d) 4.6		Radiation Band Edge	Pass
15.247(d) 4.6		Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	IEEE 802.11b mode :1Mbps IEEE 802.11g mode :6Mbps IEEE 802.11n HT20 mode :MCS0
Test Channel Frequencies	IEEE 802.11b mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11g mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11n HT20 mode: 1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2437MHz 3. Highest Channel: 2462MHz
Operation Transmitter	IEEE 802.11b mode :1T1R IEEE 802.11g mode :1T1R IEEE 802.11n HT20 mode :1T1R

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Remark:

Rev.01

^{1.} EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

	AC Power Line Conducted Emission				
Test Condition AC Power line conducted emission for line and neutral					
Voltage/Hz	DC 5V				
Test Mode	Mode 1: EUT power by Host System.				
Worst Mode					

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	Radiated Emission Measurement Above 1G				
Test Condition	Band edge, Emission for Unwanted and Fundamental				
Voltage/Hz	DC 5V				
Test Mode	Mode 1: EUT power by Host System.				
Worst Mode	Mode 1				
Worst Position	 □ Placed in fixed position. □ Placed in fixed position at X-Plane (E2-Plane) □ Placed in fixed position at Y-Plane (E1-Plane) ☑ Placed in fixed position at Z-Plane (H-Plane) 				
Worst Polarity	☐ Horizontal ⊠ Vertical				

	Radiated Emission Measurement Below 1G				
Test Condition Radiated Emission Below 1G					
Voltage/Hz DC 5V					
Test Mode Mode 1: EUT power by Host System.					
Worst Mode					

Remark:

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis, X, Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case (Z-Plane and Vertical) were recorded in this report
- 3. For below 1G, AC power line conducted emission and radiation emission were performed the EUT transmit at the highest output power channel as worse case.



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3.3 EUT DUTY CYCLE

Duty Cycle							
Configuration	TX ON (ms)	TX ALL (ms)	Duty Cycle (%)	Duty Factor(dB)			
802.11b	8.4400	8.5100	99.18%	0.04			
802.11g	1.4300	1.5100	94.70%	0.24			
802.11n HT20	1.3300	1.4100	94.33%	0.25			



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4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a)(2)

Frequency Range	Limits(dBμV)				
(MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

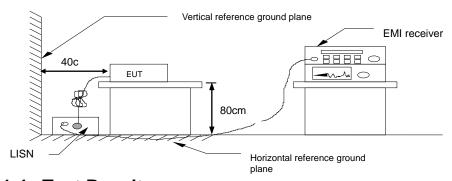
^{*} Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

- 1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
- 2. EUT connected to the line impedance stabilization network (LISN)
- 3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



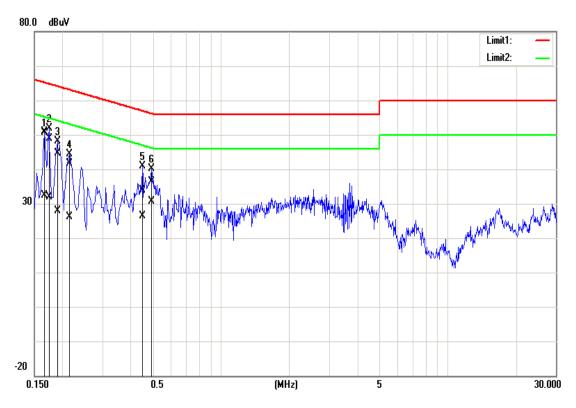
4.1.4 Test Result

Pass.

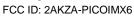
FCC ID: 2AKZA-PICOIMX6

Test Data

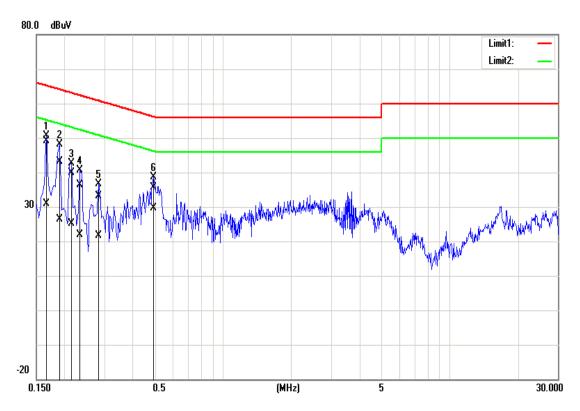
Test Mode:	Mode 1	Temp/Hum	24(°ℂ)/ 50%RH	
Test Voltage:	120Vac / 60Hz	Test Date	December 4, 2017	
Phase:	Line	Test Engineer	Eric Lee	



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)
1	0.1660	50.90	32.37	0.05	50.95	32.42	65.16	55.16	-14.21	-22.74
2	0.1740	48.76	31.75	0.05	48.81	31.80	64.77	54.77	-15.96	-22.97
3	0.1900	44.70	27.95	0.05	44.75	28.00	64.04	54.04	-19.29	-26.04
4	0.2140	41.57	26.12	0.05	41.62	26.17	63.05	53.05	-21.43	-26.88
5	0.4500	33.94	26.38	0.05	33.99	26.43	56.88	46.88	-22.89	-20.45
6	0.4940	36.43	30.64	0.05	36.48	30.69	56.10	46.10	-19.62	-15.41



Test Mode:	Mode 1	Temp/Hum	24(°ℂ)/ 50%RH	
Test Voltage:	120Vac / 60Hz	Test Date	December 4, 2017	
Phase:	Neutral	Test Engineer	Eric Lee	



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)
1	0.1660	48.97	30.85	0.12	49.09	30.97	65.16	55.16	-16.07	-24.19
2	0.1900	43.07	26.37	0.12	43.19	26.49	64.04	54.04	-20.85	-27.55
3	0.2140	39.67	24.93	0.12	39.79	25.05	63.05	53.05	-23.26	-28.00
4	0.2340	36.35	21.67	0.12	36.47	21.79	62.31	52.31	-25.84	-30.52
5	0.2820	33.12	21.60	0.12	33.24	21.72	60.76	50.76	-27.52	-29.04
6	0.4940	35.41	29.55	0.13	35.54	29.68	56.10	46.10	-20.56	-16.42

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4.2 6DB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a)(2)

6 dB Bandwidth:

Limit	Shall be at least 500kHz

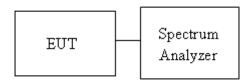
Occupied Bandwidth(99%) : For reporting purposes only.

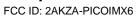
4.2.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 8.1 and ANSI 63.10:2013 clause 6.9.2.

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 100kHz, VBW = 300kHz and Detector = Peak, to measurement 6 dB Bandwidth and 99% Bandwidth.
- 4. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup





4.2.4 Test Result

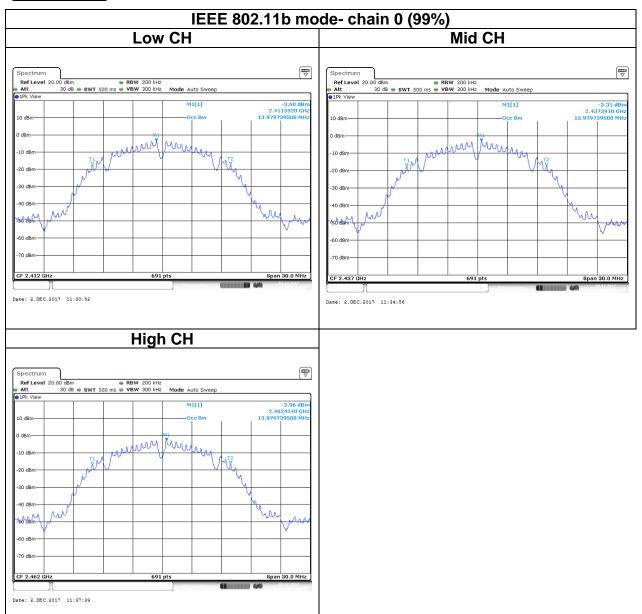
Test mode: IEEE 802.11b mode / 2412-2462 MHz								
Channel Frequency (MHz) Chain 0 OBW(99%) (MHz) Chain 1 OBW(99%) (MHz) Chain 0 GdB BW (MHz) Chain 1 GdB BW (MHz) 6dB BW (M								
Low	2412	13.9797		9.0				
Mid	2437	13.9797		8.5652		≥500		
High	2462	13.9797		9.0435				

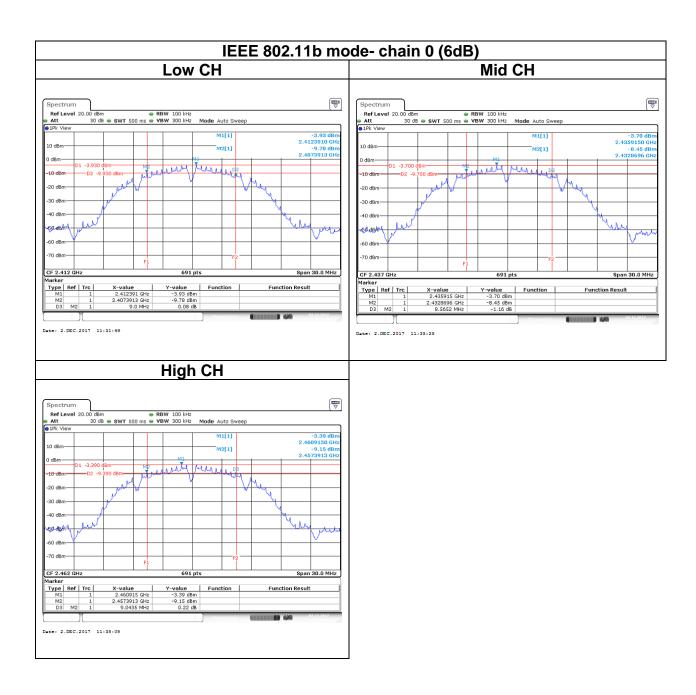
Test mode: IEEE 802.11g mode / 2412-2462 MHz								
Channel	Frequency (MHz)							
Low	2412	16.6714		16.0435				
Mid	2437	16.6714		15.8261		≥500		
High	2462	16.6714		16.0435				

	Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz								
Channel	el Frequency (MHz) Chain 0 Chain 1 Chain 0 Chain 1 GdB BW (MHz) (MHz) (MHz) (MHz) (MHz) (MHz) (MHz)								
Low	2412	17.8437		17.5652					
Mid	2437	17.8437		16.6957		≥500			
High	2462	17.8871		16.9130					

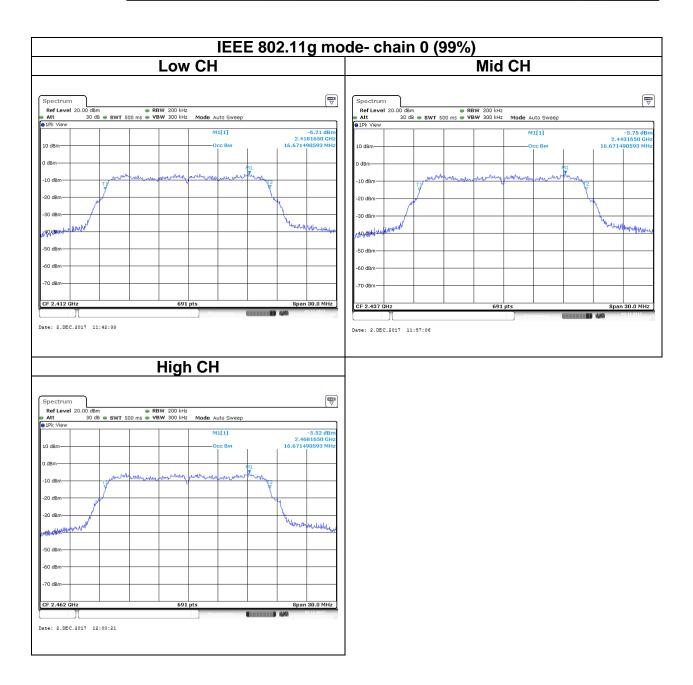
FCC ID: 2AKZA-PICOIMX6

Test Data



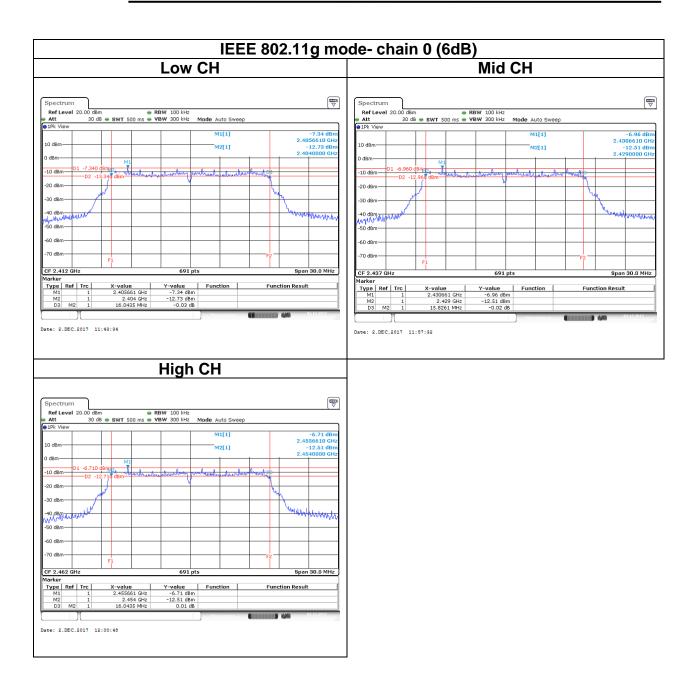


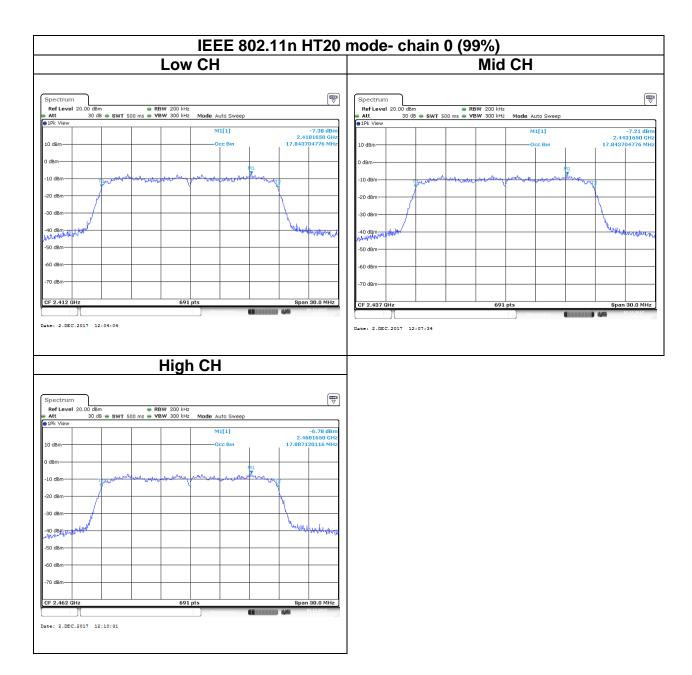
FCC ID: 2AKZA-PICOIMX6 Report No.: T171128D01-RP1

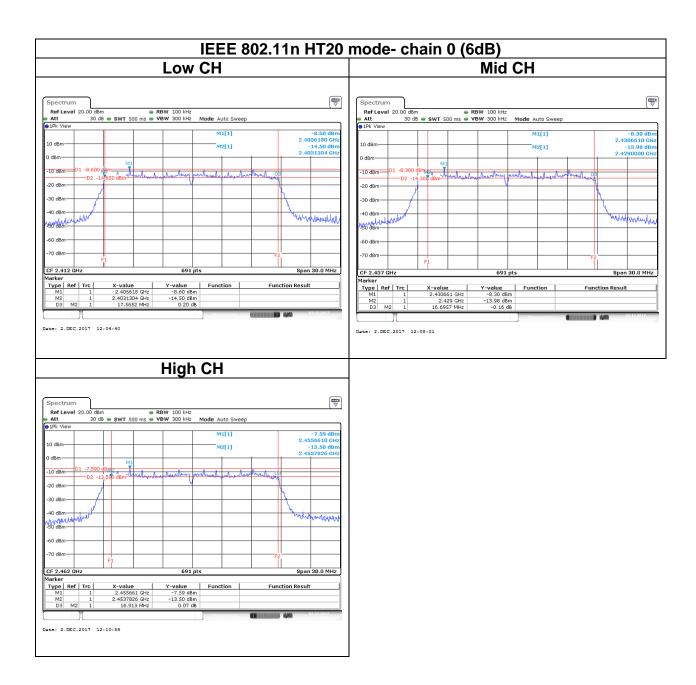




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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b)

Peak output power:

For systems using digital modulation in the 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt(30 dBm) and the e.i.r.p. shall not exceed 4Watt(36 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

✓ Antenna not exceed 6 dBi : 30dBm✓ Antenna with DG greater than 6 dBi :
[Limit = 30 − (DG − 6)] Point-to-point operation:
— т от то ротти ороготиот

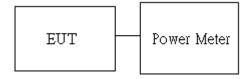
Average output power: For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 9.1.2.

- 1. The EUT RF output connected to the power meter by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. The path loss was compensated to the results for each measurement.
- 4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup



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4.3.4 Test Result

Peak output power:

Wifi 2.4G									
		Freq.	powe	er set	PK Pow	er(dBm)	PK Total Power	PK Total	Limit
Config	СН	(MHz)	chain0	chain1	chain0	chain1	(dBm)	Power (W)	(dBm)
IEEE	Low	2412	32	-	17.15	-	17.15	0.0519	
802.11b Data rate: 1Mbps	Mid	2437	32	-	17.21	-	17.21	0.0526	
	High	2462	32	-	17.59	•	17.59	0.0574	
IEEE	Low	2412	32	-	22.01	-	22.01	0.1589	
802.11g Data rate:	Mid	2437	32	-	22.35	-	22.35	0.1718	30
6Mbps	High	2462	32	-	22.93	-	22.93	0.1963	
IEEE 802.11n HT20	Low	2412	32	-	21.54	-	21.54	0.1426	
	Mid	2437	32	-	21.74	-	21.74	0.1493	
Data rate: MCS 0	High	2462	32	-	22.23	-	22.23	0.1671	

Average output power:

Wifi 2.4G								
Config	СН	Freq.	AV Pow	er(dBm)	AV Total Power			
Coming	011	(MHz)	chain0	chain1	(dBm)			
IEEE	Low	2412	14.64	-	14.64			
802.11b Data rate:	Mid	2437	15.02	ı	15.02			
1Mbps	High	2462	15.24	ı	15.24			
IEEE	Low	2412	13.86	ı	13.86			
802.11g Data rate:	Mid	2437	14.21	ı	14.21			
6Mbps	High	2462	14.55	ı	14.55			
IEEE 802.11n HT20	Low	2412	12.89	ı	12.89			
	Mid	2437	13.15		13.15			
Data rate: MCS 0	High	2462	13.51	-	13.51			

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

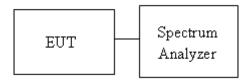
Limit	☐ Antenna with DG greater than 6 dBi:
Limit	[Limit = 8 − (DG − 6)] ☐ Point-to-point operation:
	☐ Point-to-point operation :

4.4.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 10.2

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 3kHz, VBW = 30kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
- 4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
- 5. Mark the maximum level.
- 6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



FCC ID: 2AKZA-PICOIMX6

4.4.4 Test Result

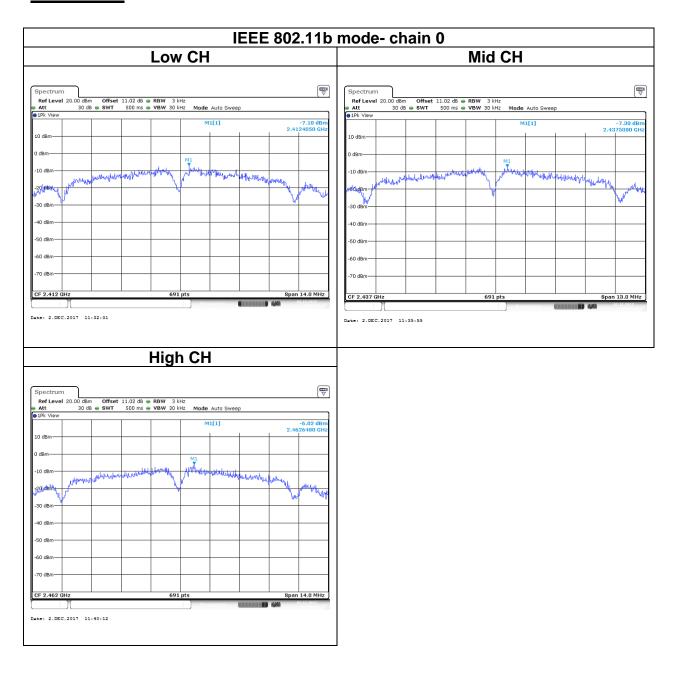
Test mode: IEEE 802.11b mode / 2412-2462 MHz						
Channel Frequency (MHz) Chain 0 Chain 1 Total PPSD PSD (dBm) (dBm) Limit (dBm)						
Low	2412	-7.10	-	-7.10		
Mid	2437	-7.30	-	-7.30	8	
High	2462	-6.02	-	-6.02		

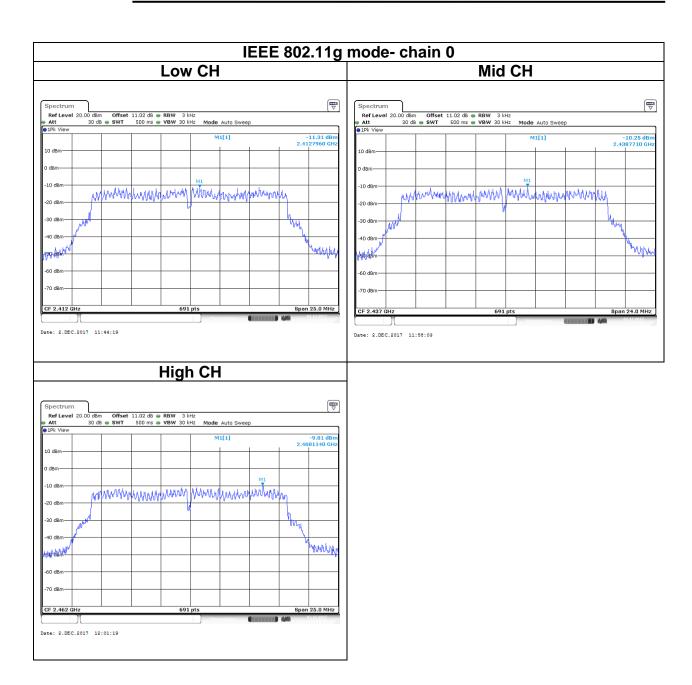
Test mode: IEEE 802.11g mode / 2412-2462 MHz						
Channel	Channel Frequency (MHz) Chain 0 Chain 1 Total PPSD PSSD (dBm) (dBm) Limit (dBm)					
Low	2412	-11.31	-	-11.31		
Mid	2437	-10.25	-	-10.25	8	
High	2462	-9.81	-	-9.81		

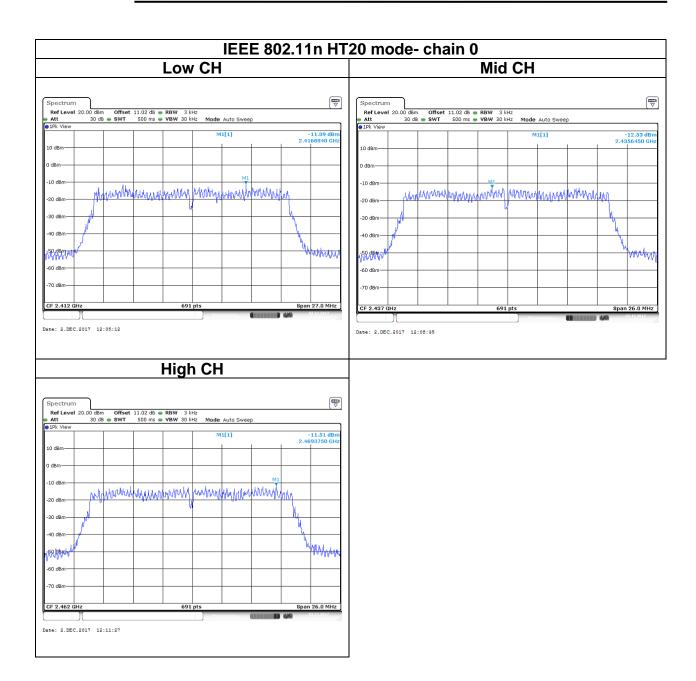
Test mode: IEEE 802.11n HT 20 MHz mode / 2412-2462 MHz							
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PSSD (dBm)	Limit (dBm)		
Low	2412	-11.09	-	-11.09			
Mid	2437	-12.53	-	-12.53	8		
High	2462	-11.51	-	-11.51			

FCC ID: 2AKZA-PICOIMX6 Report No.: T171128D01-RP1

Test Data







4.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d)

In any 100 kHz bandwidth outside the authorized frequency band,

Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement 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).

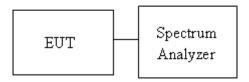
Report No.: T171128D01-RP1

4.5.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 11.

- 1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
- 2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
- 3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. f the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

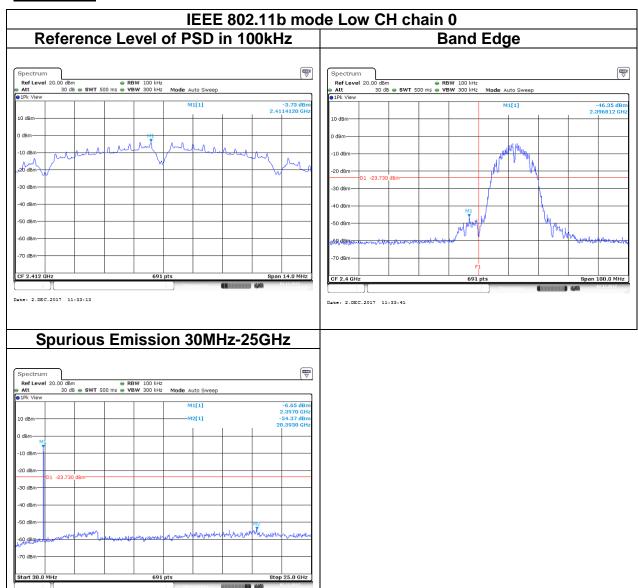
4.5.3 Test Setup



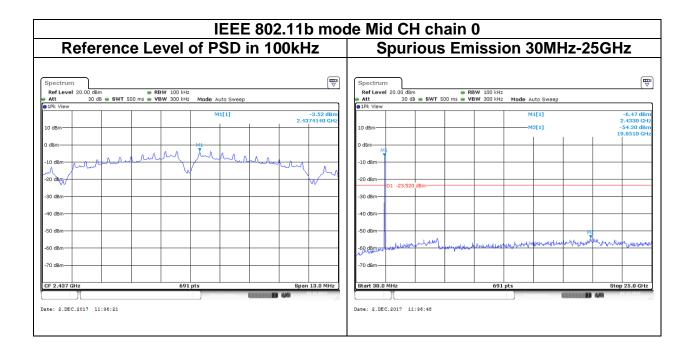
ID: 2AKZA-PICOIMX6 Report No.: T171128D01-RP1

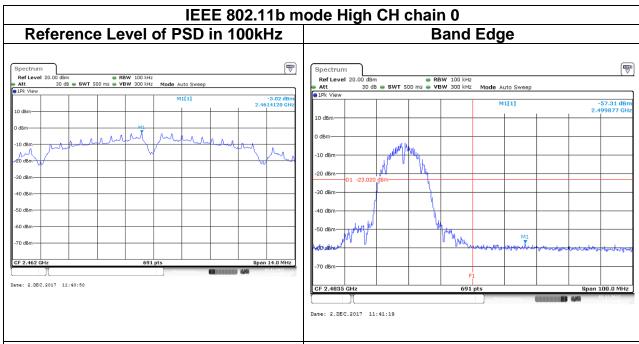
4.5.4 Test Result

Test Data

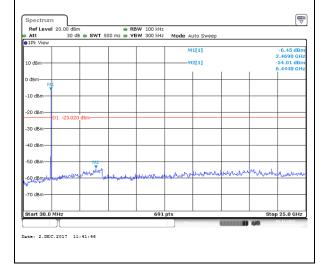


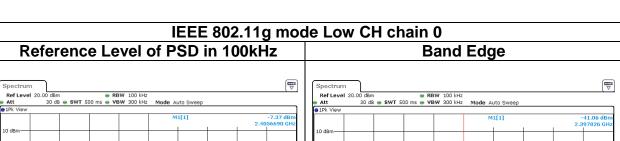
FCC ID: 2AKZA-PICOIMX6

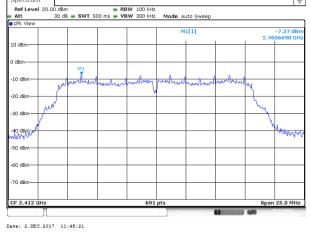


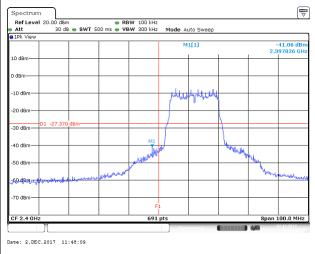


Spurious Emission 30MHz-25GHz



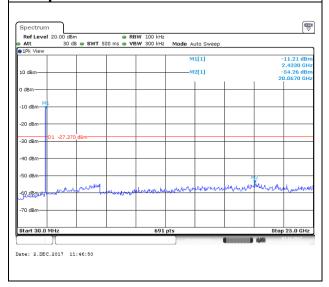




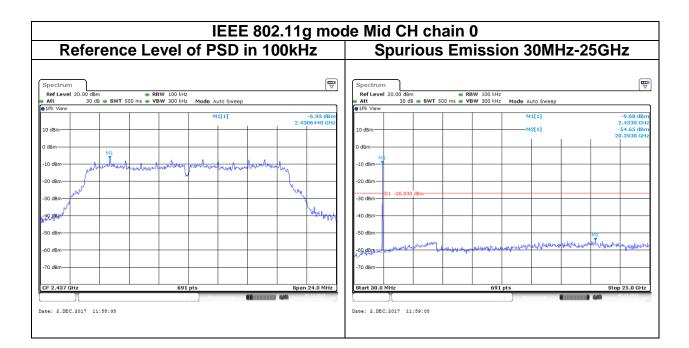


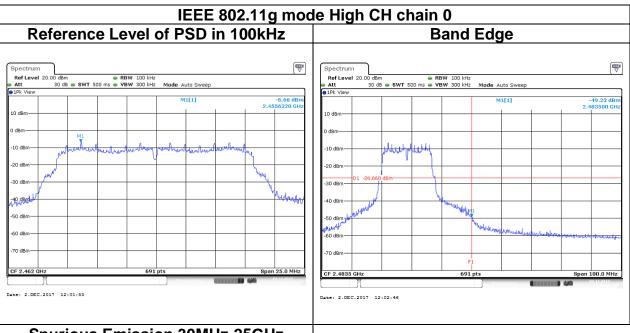
Report No.: T171128D01-RP1

Spurious Emission 30MHz-25GHz

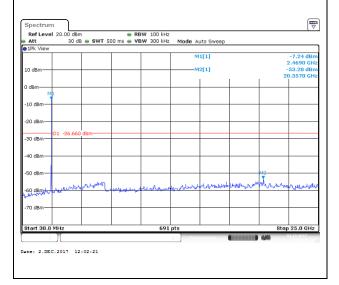


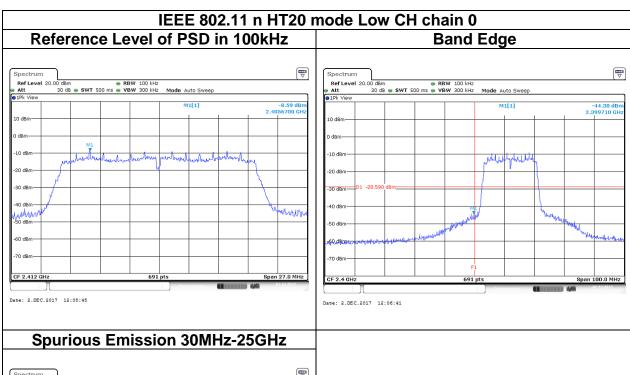
FCC ID: 2AKZA-PICOIMX6

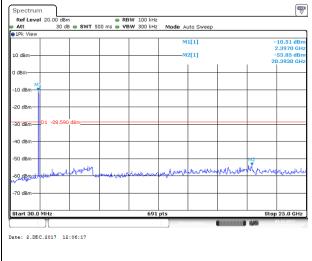




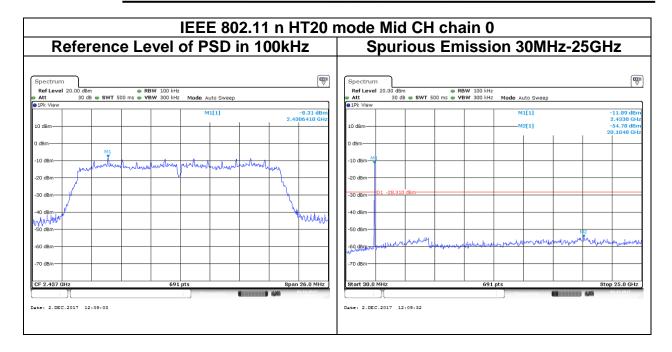
Spurious Emission 30MHz-25GHz

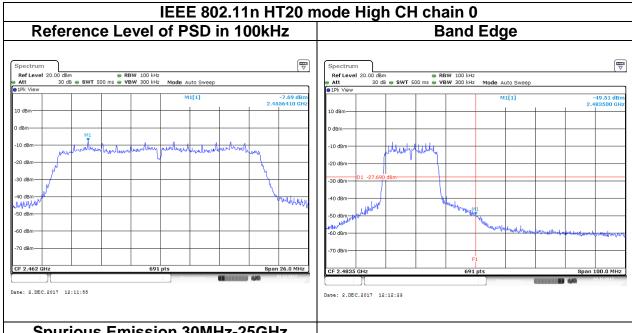




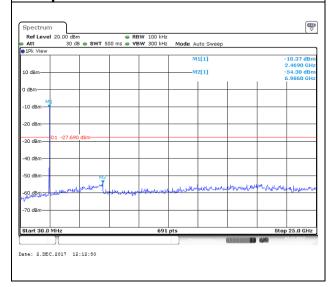


FCC ID: 2AKZA-PICOIMX6 Report No.: T171128D01-RP1









4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

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Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)	
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300	
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30	
1.705-30 MHz	30	N/A	30	

Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)	
30-88	100	3	
88-216	150	3	
216-960	200	3	
Above 960	500	3	

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4.6.2 Test Procedure

Test method Refer as KDB 558074 D01 v04, Section 12.1.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.

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- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
- 3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

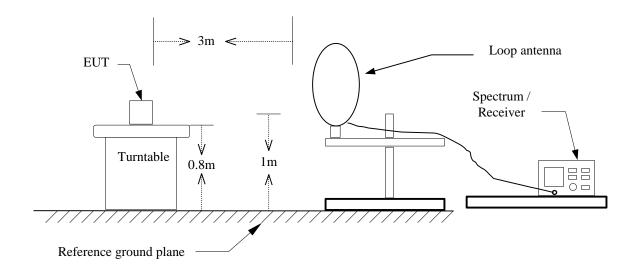
- 5. The SA setting following:
 - (1) Below 1G: RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G:
 - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW
 - If Duty Cycle ≥ 98%, VBW=10Hz.
 - If Duty Cycle < 98%, VBW=1/T.

Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting	
802.11b	99%	8.4400	-	300Hz	
802.11g	802.11g 95%		0.699	750Hz	
802.11n HT20	94%	1.3300	0.752	820Hz	

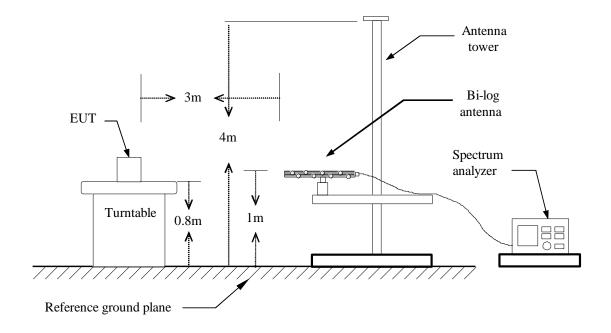
FCC ID: 2AKZA-PICOIMX6

4.6.3 Test Setup

9kHz ~ 30MHz

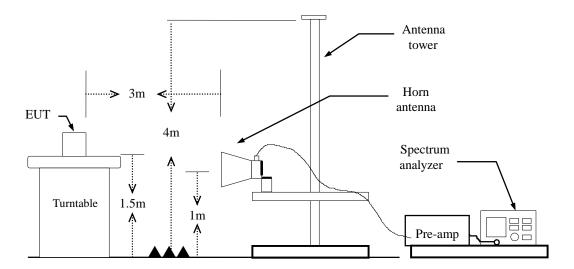


30MHz ~ 1GHz





Above 1 GHz

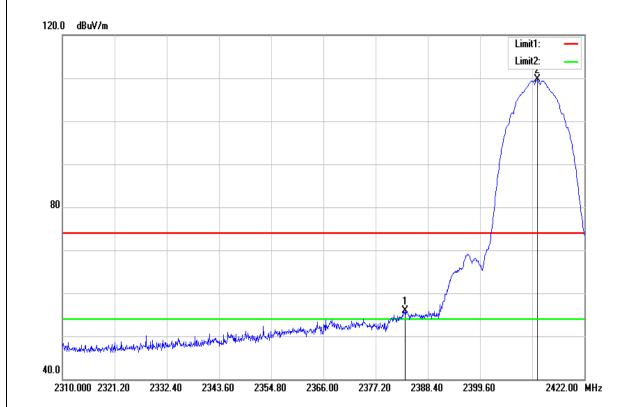


FCC ID: 2AKZA-PICOIMX6

4.6.4 Test Result

Band Edge Test Data

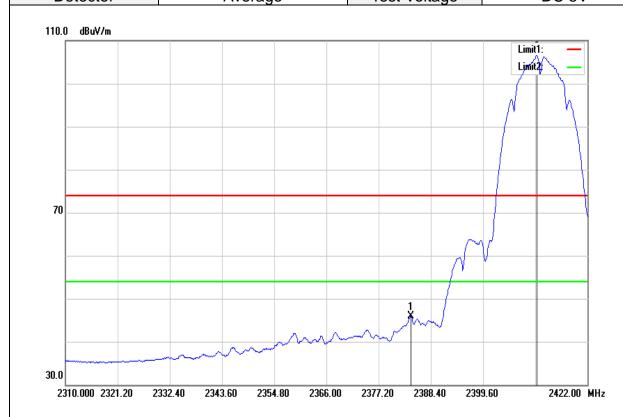
Test Mode	Test Mode IEEE 802.11b Low CH		24(°ℂ)/ 33%RH
Test Item Band Edge		Test Date	December 5, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Detector Peak		DC 5V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2383.472	58.97	-3.00	55.97	74.00	-18.03	peak
2411.920	112.54	-2.92	109.62	-	-	peak



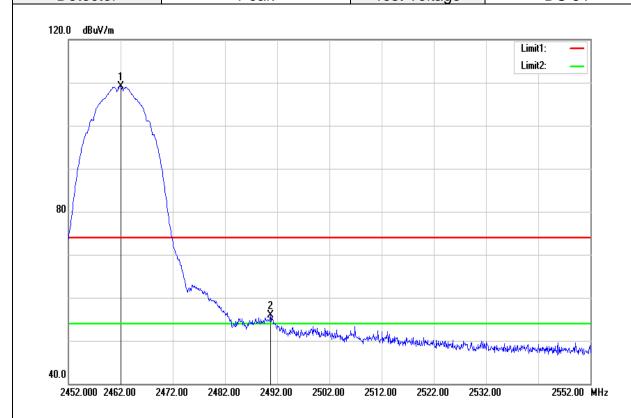
24(°C)/ 33%RH Test Mode IEEE 802.11b Low CH Temperature: Test Date Test Item **Band Edge** December 5, 2017 Horizontal Jerry Chuang **Polarize** Test Engineer Test Voltage DC 5V Detector Average



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2384.144	48.97	-3.00	45.97	54.00	-8.03	AVG
2411.136	109.39	-2.92	106.47	-	-	AVG



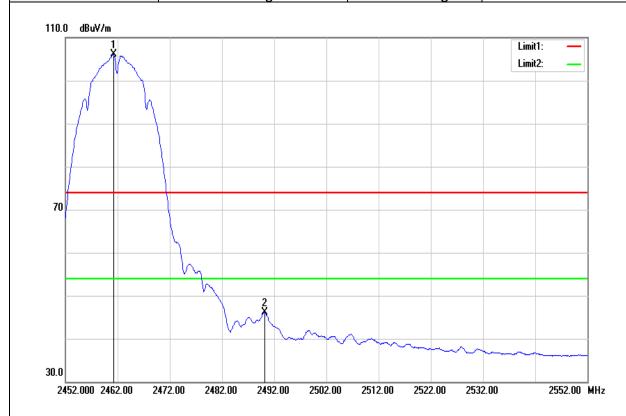
24(°C)/ 33%RH Test Mode IEEE 802.11b High CH Temp/Hum Test Item Band Edge **Test Date** December 5, 2017 Polarize Horizontal Test Engineer Jerry Chuang Peak Test Voltage DC 5V Detector



Frequency (MHz)	Reading (dBuV)	Correct Factor (d /m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2462.000	111.93	-2.76	109.17			peak
2490.700	58.64	-2.67	55.97	74.00	-18.03	peak



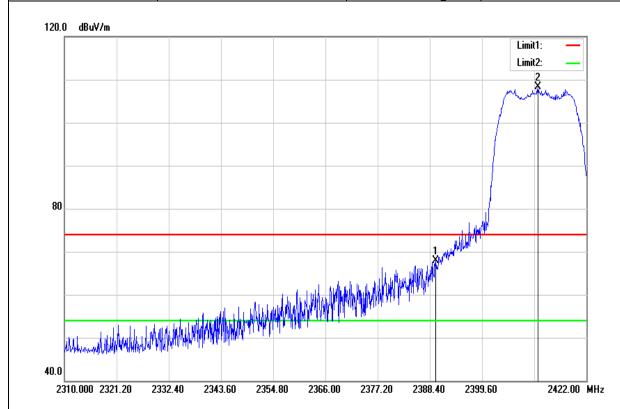
Test Mode	IEEE 802.11b High CH	IEEE 802.11b High CH Temperature:	
Test Item Band Edge		Test Date	December 5, 2017
Polarize			Jerry Chuang
Detector Average		Test Voltage	DC 5V



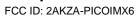
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2461.200	108.77	-2.76	106.01	-	-	AVG
2490.200	48.74	-2.67	46.07	54.00	-7.93	AVG



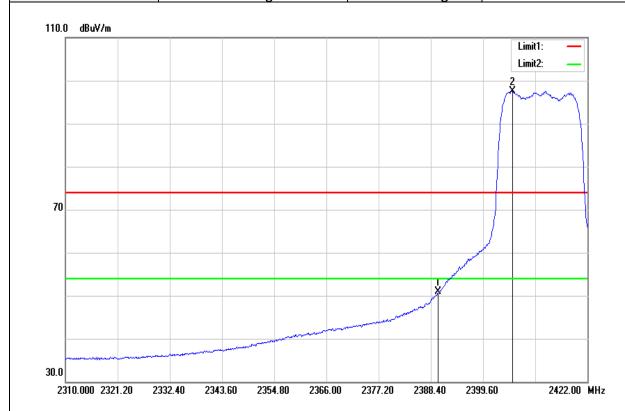
IEEE 802.11g Low CH 24(°C)/33%RH Test Mode Temp/Hum **Band Edge Test Date** December 5, 2017 Test Item Horizontal Jerry Chuang **Polarize** Test Engineer Test Voltage DC 5V Detector Peak



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2389.632	70.98	-2.98	68.00	74.00	-6.00	peak
2411.584	111.17	-2.92	108.25	-	-	peak

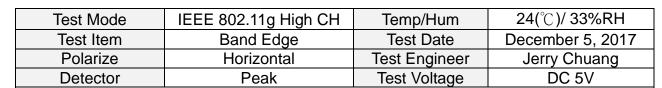


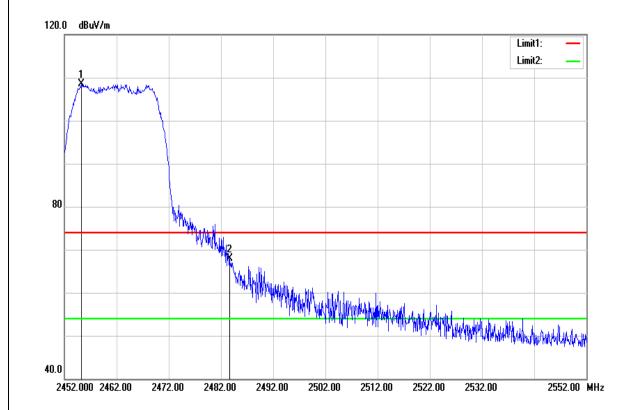
Test Mode	IEEE 802.11g Low CH	Temperature:	24(°C)/ 33%RH	
Test Item Band Edge		Test Date	December 5, 2017	
Polarize	Polarize Horizontal		Jerry Chuang	
Detector Average		Test Voltage	DC 5V	



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.000	53.89	-2.98	50.91	54.00	-3.09	AVG
2405.872	100.50	-2.93	97.57	-	-	AVG



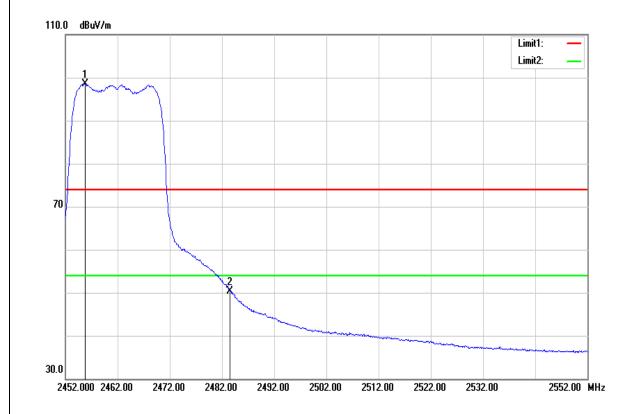




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2455.200	111.34	-2.78	108.56	-	-	peak
2483.700	70.50	-2.69	67.81	74.00	-6.19	peak



Test Mode	IEEE 802.11g High CH	Temperature:	24(°C)/ 33%RH
Test Item	Band Edge	Test Date	December 5, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	DC 5V

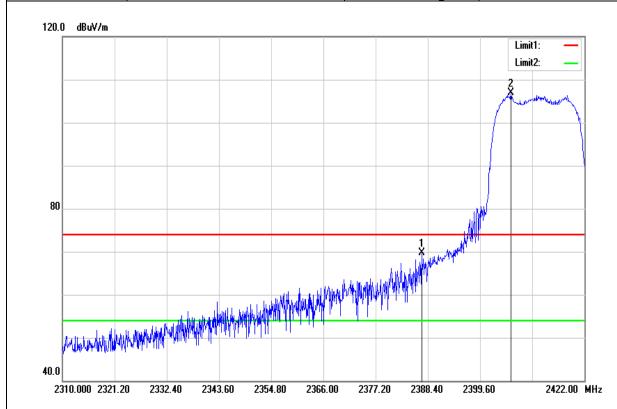


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2455.800	101.35	-2.78	98.57	-	-	AVG
2483.500	53.04	-2.69	50.35	54.00	-3.65	AVG



FCC ID: 2AKZA-PICOIMX6

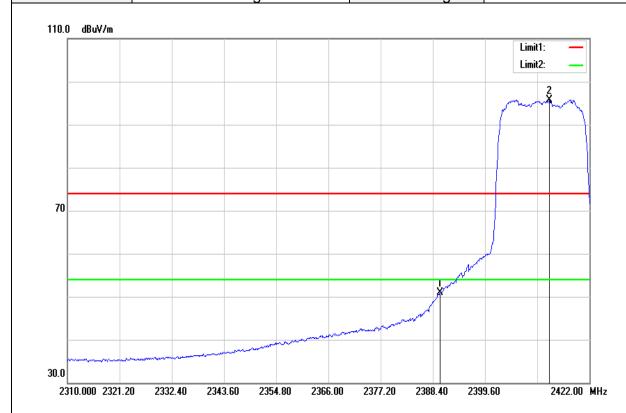
Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Band Edge	Test Date	December 5, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	DC 5V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2387.056	72.69	-2.99	69.70	74.00	-4.30	peak
2406.208	109.76	-2.93	106.83	-	-	peak

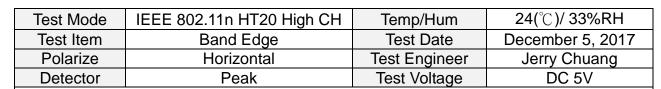


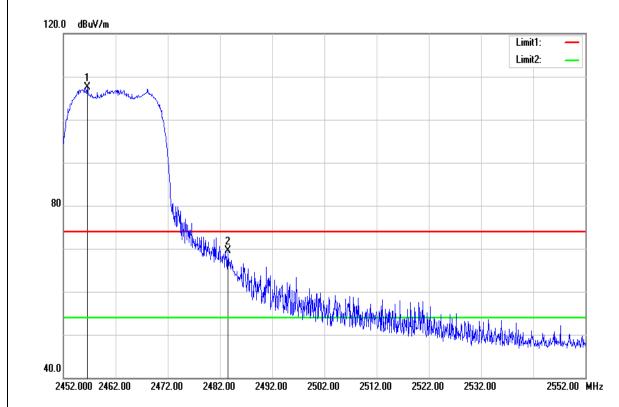
24(°C)/33%RH Test Mode IEEE 802.11n HT20 Low CH Temperature: Test Item Band Edge **Test Date** December 5, 2017 Horizontal Jerry Chuang **Polarize** Test Engineer Test Voltage DC 5V Detector Average



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.000	53.80	-2.98	50.82	54.00	-3.18	AVG
2413.376	98.64	-2.90	95.74	-	-	AVG



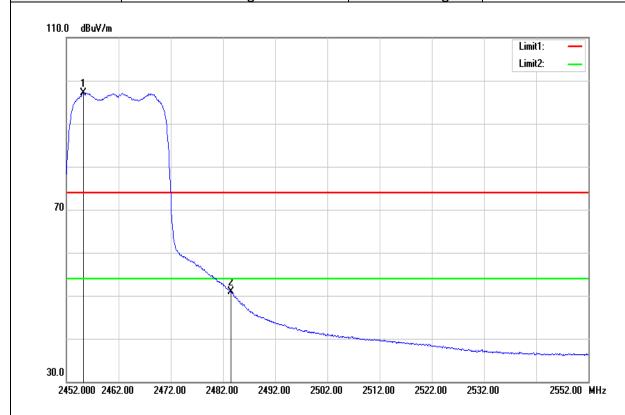




Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2456.600	110.24	-2.78	107.46	-	-	peak
2483.500	72.22	-2.69	69.53	74.00	-4.47	peak



Test Mode	IEEE 802.11n HT20 High CH	Temperature:	24(°C)/ 33%RH
Test Item	Band Edge	Test Date	December 5, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Average	Test Voltage	DC 5V

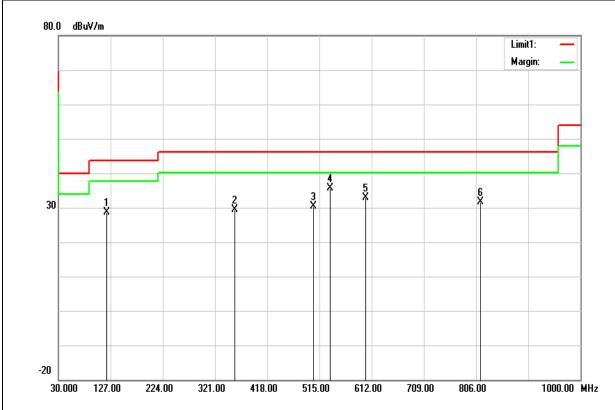


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2455.200	99.95	-2.78	97.17	-	-	AVG
2483.500	53.56	-2.69	50.87	54.00	-3.13	AVG

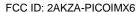


Below 1G Test Data

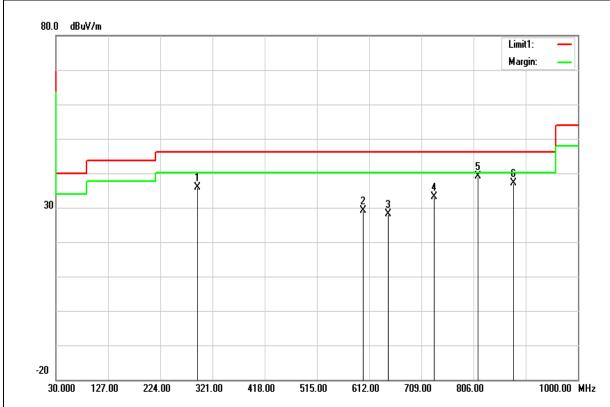
Test Mode	Mode 1	Temp/Hum	24(°C)/ 33%RH
Test Item	30MHz-1GHz	Test Date	December 8, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	DC 5V



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
120.2100	43.68	-15.01	28.67	43.52	-14.85	peak
357.8600	42.12	-12.74	29.38	46.02	-16.64	peak
504.3300	38.79	-8.41	30.38	46.02	-15.64	peak
534.4000	43.51	-7.85	35.66	46.02	-10.36	peak
600.3600	39.71	-6.92	32.79	46.02	-13.23	peak
814.7300	34.96	-3.23	31.73	46.02	-14.29	peak



Test Mode	Mode 1	Temp/Hum	24(°C)/ 33%RH
Test Item	30MHz-1GHz	Test Date	December 8, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage	DC 5V



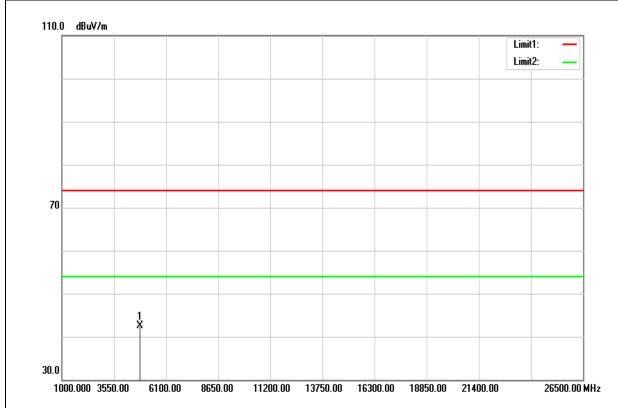
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
292.8700	49.95	-14.14	35.81	46.02	-10.21	peak
600.3600	35.96	-6.92	29.04	46.02	-16.98	peak
646.9200	33.87	-5.64	28.23	46.02	-17.79	peak
732.2800	37.56	-4.50	33.06	46.02	-12.96	peak
814.7300	42.35	-3.23	39.12	46.02	-6.90	QP
879.7200	39.51	-2.35	37.16	46.02	-8.86	peak

FCC ID: 2AKZA-PICOIMX6

Above 1G Test Data

Test Mode	st Mode IEEE 802.11b Low CH		24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 8, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	DC 5V

Report No.: T171128D01-RP1



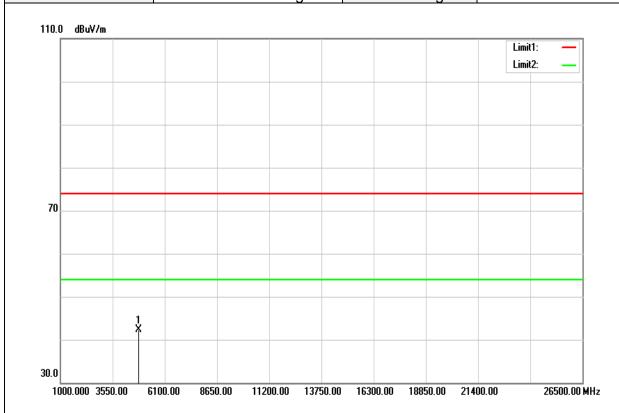
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	38.19	4.38	42.57	74.00	-31.43	peak
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mod	е	IEEE 802.11b Low CH	Temp/Hum	24(°ℂ)/ 33%RH
Test Item	1	Harmonic	Test Date	December 8, 2017
Polarize		Horizontal	Test Engineer	Jerry Chuang
Detector		Peak and Average	Test Voltage	DC 5V

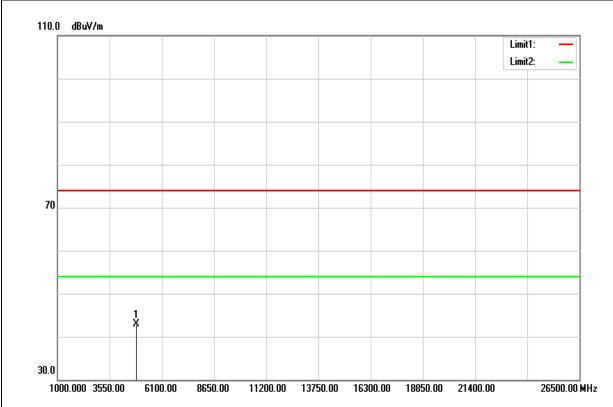


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	37.86	4.38	42.24	74.00	-31.76	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

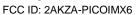


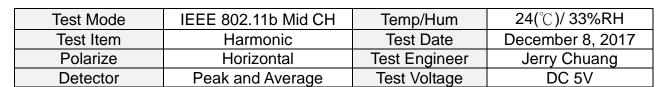
Test Mode	st Mode IEEE 802.11b Mid CH		24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 8, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	DC 5V

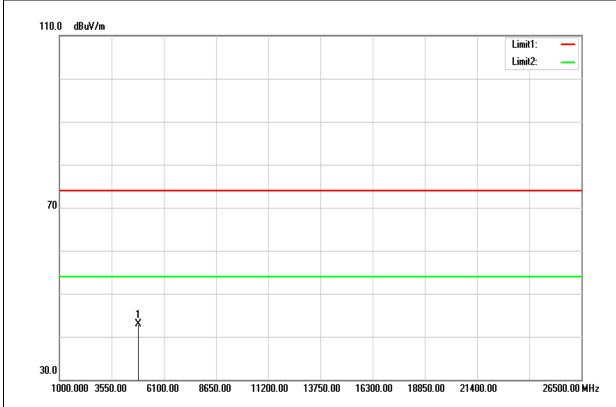


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	38.48	4.47	42.95	74.00	-31.05	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit





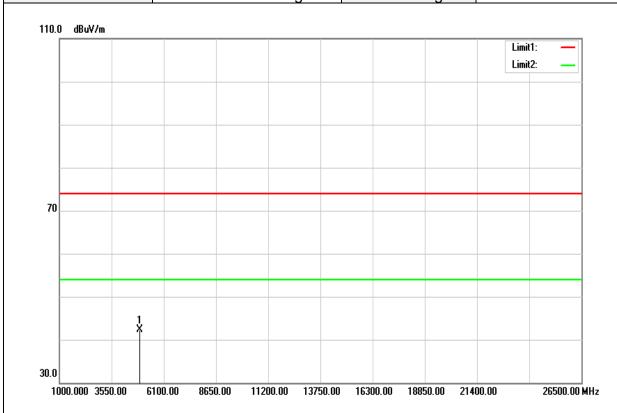


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R mark
4874.000	38.52	4.47	42.99	74.00	-31.01	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11b High CH	Temp/Hum	24(°ℂ)/ 33%RH
Test Item	Harmonic	Test Date	December 8, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	DC 5V

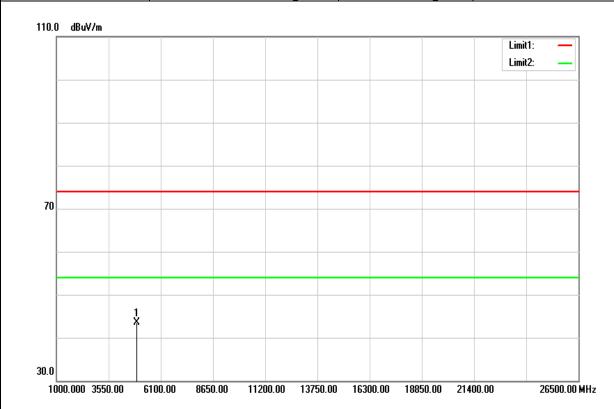


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem rk
4924.000	37.66	4.55	42.21	74.00	-31.79	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

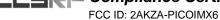


Test Mode	IEEE 802.11b High CH	Temp/Hum	24(°C)/ 33%RH
Test Item	Harmonic	Test Date	December 8, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	DC 5V

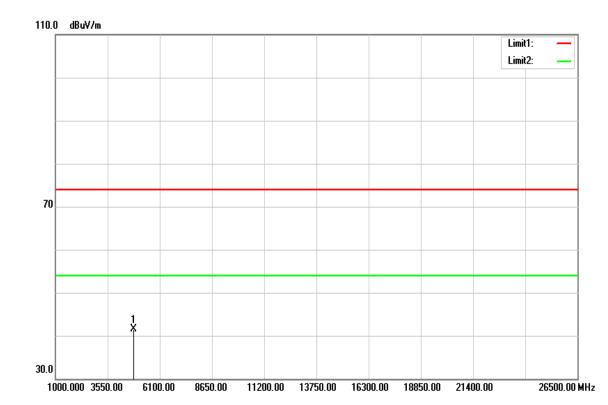


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	emark
4924.000	38.92	4.55	43.47	74.00	-30.53	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g Low CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 8, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	DC 5V



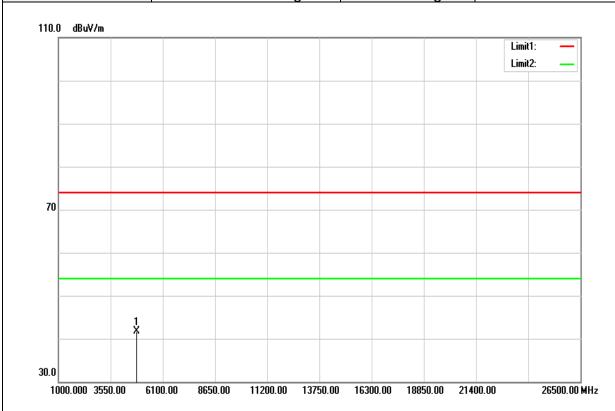
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem rk
4824.000	37.06	4.38	41.44	74.00	-32.56	peak
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

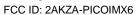


Test Mode	IEEE 802.11g Low CH	Temp/Hum	24 (°C)/ 33%RH
Test Item			December 8, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector			DC 5V

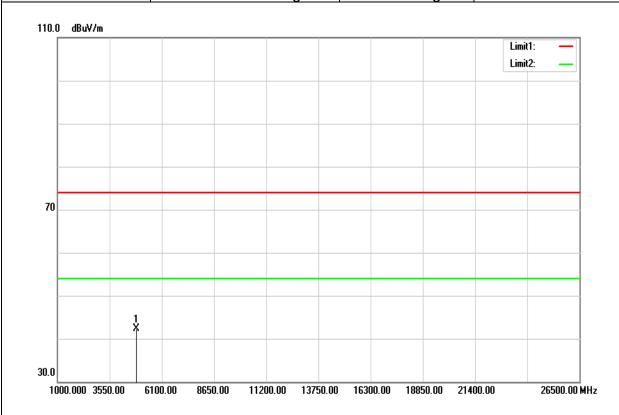


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R mark
4824.000	37.42	4.38	41.80	74.00	-32.20	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



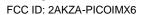
Test Mode	IEEE 802.11g Mid CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Test Item Harmonic		December 8, 2017
Polarize Vertical		Test Engineer	Jerry Chuang
Detector Peak and Average		Test Voltage	DC 5V



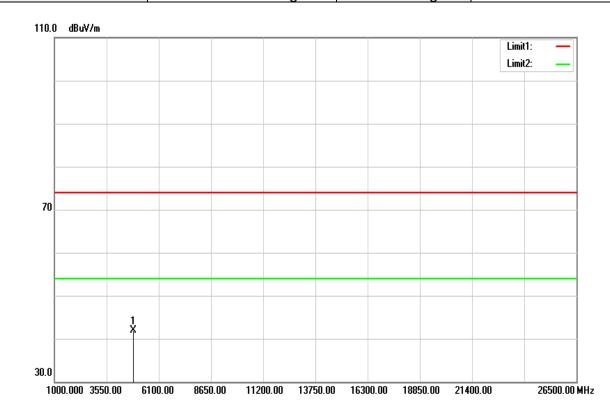
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4874.000	37.75	4.47	42.22	74.00	-31.78	peak
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

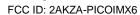


Test Mode	IEEE 802.11g Mid CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	est Item Harmonic		December 8, 2017
Polarize	Polarize Horizontal		Jerry Chuang
Detector Peak and Average		Test Voltage	DC 5V

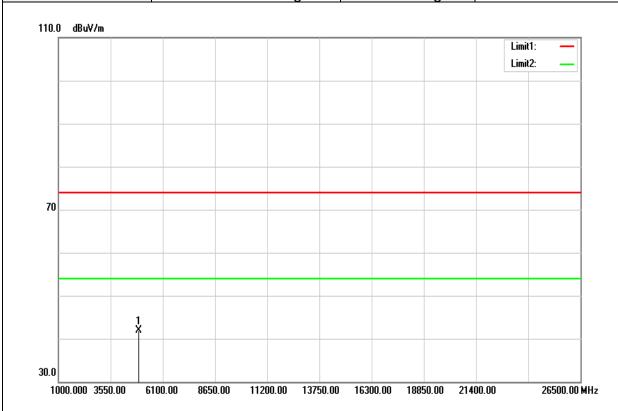


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	emark
4874.000	37.41	4.47	41.88	74.00	-32.12	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11g High CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Test Item Harmonic		December 8, 2017
Polarize	olarize Vertical		Jerry Chuang
Detector	Peak and Average	Test Voltage	DC 5V

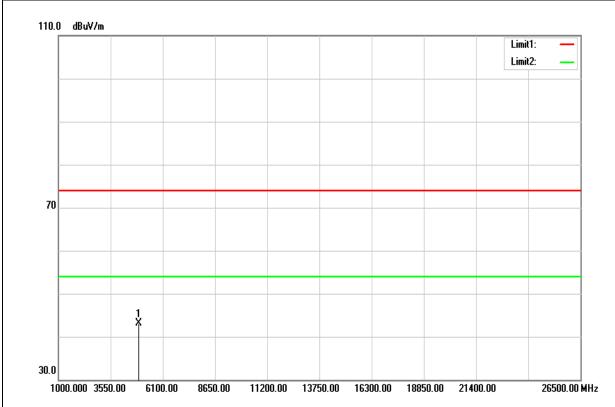


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	37.30	4.55	41.85	74.00	-32.15	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

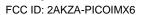


Test Mode	IEEE 802.11g High CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 8, 2017
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak and Average	Test Voltage	DC 5V

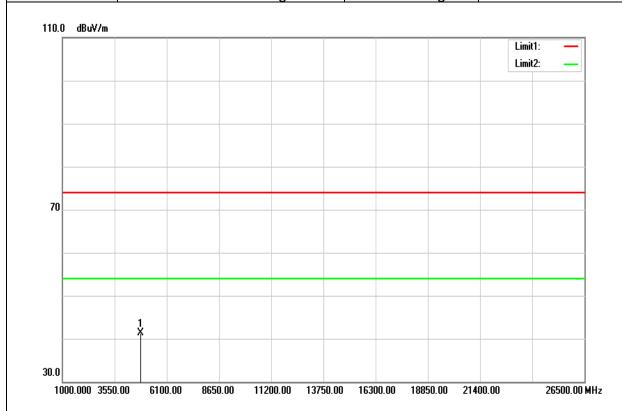


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4924.000	38.60	4.55	43.15	74.00	-30.85	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



	Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	24 (°C)/ 33%RH
	Test Item Harmonic Polarize Vertical Detector Peak and Average		Test Date	December 8, 2017
			Test Engineer	Jerry Chuang
			Test Voltage	DC 5V

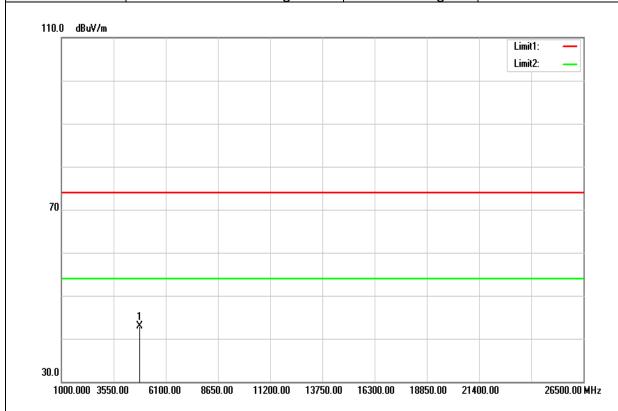


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824.000	36.86	4.38	41.24	74.00	-32.76	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	24 (°C)/ 33%RH
Test Item Harmonic		Test Date	December 8, 2017
Polarize Horizontal		Test Engineer	Jerry Chuang
Detector Peak and Average		Test Voltage	DC 5V

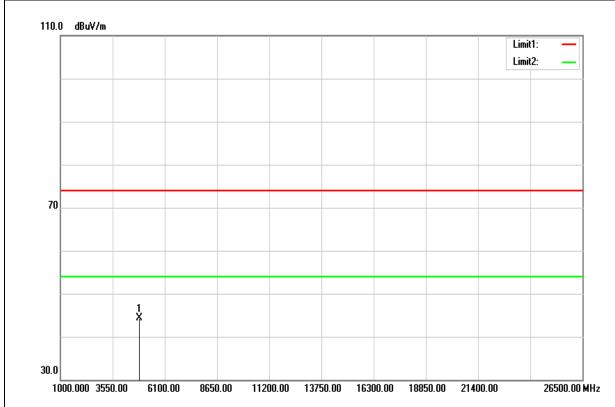


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	emark
4824.000	38.49	4.38	42.87	74.00	-31.13	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

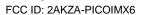


Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	24 (°C)/ 33%RH	
Test Item	Harmonic	Test Date	December 8, 2017	
Polarize	Polarize Vertical		Jerry Chuang	
Detector Peak and Average		Test Voltage	DC 5V	

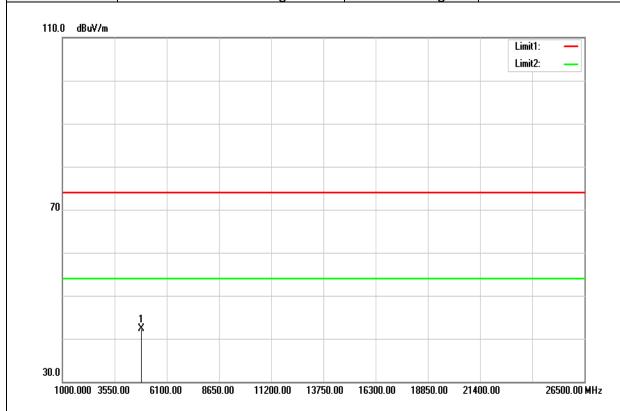


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re ark
4869.000	39.77	4.45	44.22	74.00	-29.78	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



	Test Mode	est Mode IEEE 802.11n HT20 Mid CH		24 (°C)/ 33%RH
	Test Item Harmonic		Test Date	December 8, 2017
	Polarize Horizontal Detector Peak and Average		Test Engineer	Jerry Chuang
			Test Voltage	DC 5V

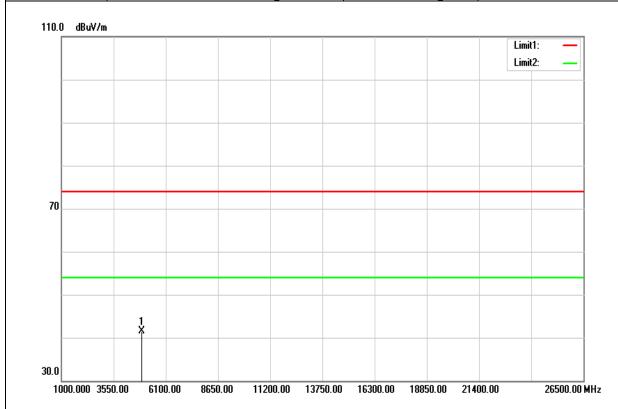


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	emark
4874.000	37.88	4.47	42.35	74.00	-31.65	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	24 (°C)/ 33%RH
Test Item	Harmonic	Test Date	December 8, 2017
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector			DC 5V



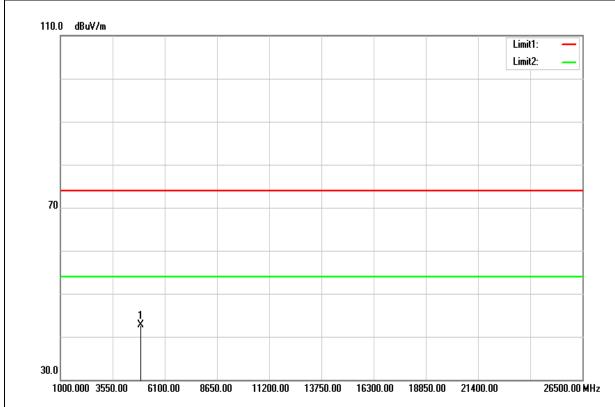
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re ark
4924.000	36.86	4.55	41.41	74.00	-32.59	peak
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



	Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	24 (°C)/ 33%RH	
	Test Item Harmonic Polarize Horizontal Detector Peak and Average		Test Date	December 8, 2017	
			Test Engineer	Jerry Chuang	
			Test Voltage	DC 5V	



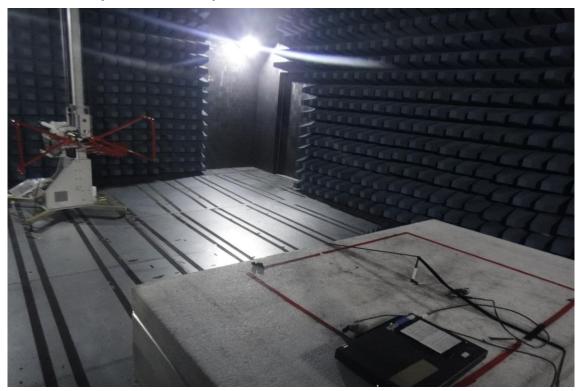
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	emark
4924.000	38.09	4.55	42.64	74.00	-31.36	peak
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

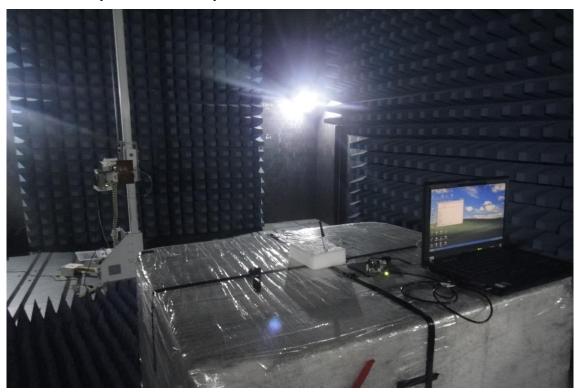


APPENDIX I Test Photo

Radiation (Below 1GHz)

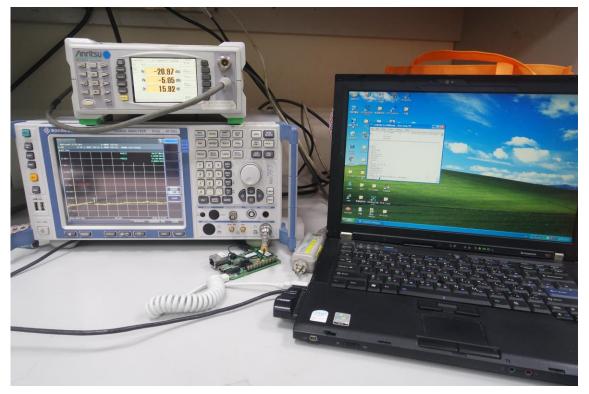


Radiation (Above 1GHz)





Conducted Emission Set Up Photo





Conduction



