



FCC RF Test Report

APPLICANT : PAX Technology Limited
EQUIPMENT : Smart Tablet
BRAND NAME : PAX
MODEL NAME : Aries8
FCC ID : V5PAR8
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was installed a WLAN module during the test (Brand Name: MeiG Smart Technology Co., Ltd, Model Name: SLM757A, FCC ID: 2APJ4-SLM757A).

The product was received on Dec. 06, 2018 and testing was completed on Feb. 25, 2019. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.

Eric Shih

Approved by: Eric Shih / Manager



Sporton International (Shenzhen) Inc.

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City
Guangdong Province 518055 China**



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant.....	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	6
1.5 Modification of EUT	6
1.6 Testing Location	6
1.7 Applicable Standards.....	7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1 Carrier Frequency and Channel	8
2.2 Test Mode.....	9
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	10
2.5 EUT Operation Test Setup	10
3 TEST RESULT	11
3.1 Maximum Conducted Output Power Measurement	11
3.2 Unwanted Emissions Measurement.....	13
3.3 AC Conducted Emission Measurement.....	18
3.4 Automatically Discontinue Transmission	20
3.5 Antenna Requirements.....	21
4 LIST OF MEASURING EQUIPMENT	22
5 UNCERTAINTY OF EVALUATION	23
APPENDIX A. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX B. RADIATED SPURIOUS EMISSION	
APPENDIX C. DUTY CYCLE PLOTS	
APPENDIX D. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR8D0615F	Rev. 01	Initial issue of report	Apr. 09, 2019

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	1
3.1	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
-	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	1
3.2	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 8.06 dB at 30.000 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.33 dB at 13.700 MHz
3.4	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.5	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-
Remark 1: Test items are performed on module RF report which can be referred to Sporton report number FR891203E.					



1 General Description

1.1 Applicant

PAX Technology Limited

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

1.2 Manufacturer

PAX Computer Technology (Shenzhen) Co., Ltd.

4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Tablet
Brand Name	PAX
Model Name	Aries8
FCC ID	V5PAR8
EUT supports Radios application	WCDMA/HSPA/DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR / EDR / LE NFC/GNSS
IMEI Code	Conduction: 868621028940611/868621028939233 Radiation: 868621028940975/868621028940983 Conducted: 868621028942211/868621028932238
HW Version	N/A
SW Version	N/A
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	<5745 MHz ~ 5825 MHz> 802.11a : 10.71 dBm / 0.0118 W 802.11n HT20 : 10.87 dBm / 0.0122 W 802.11n HT40 : 9.70 dBm / 0.0093 W
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
Antenna Type / Gain	FPC Antenna with gain 2.00 dBi

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0).

Test Site	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen City, Guangdong Province 518055, China TEL: 86-755-8637-9589 FAX: 86-755-8637-9595		
Test Site No.	Sporton Site No.	FCC designation No.	FCC Test Firm Registration No.
	CO01-SZ TH01-SZ	CN5018	337463

Test Site	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District, Shenzhen City, Guangdong Province 518055, China TEL: 86-755- 3320-2398		
Test Site No.	Sporton Site No.	FCC designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN5019	577730



1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases(Y-Plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5745-5825 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	-	-	165	5825

Note: The above Frequency and Channel in "*" were 802.11n HT40

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

AC Conducted Emission	Mode 1 : WCDMA Band II Idle + Bluetooth Link + WLAN Link (5G) + Battery + USB cable(Charging from adapter) + Earphone
Remark: For Radiated Test Cases, The tests were performed with Adapter, Battery and Earphone	

Ch. #		Band IV : 5745-5825 MHz		
		802.11a	802.11n HT20	802.11n HT40
L	Low	149	149	151
M	Middle	157	157	-
H	High	165	165	159

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Samsung	EO-MG900	N/A	N/A	N/A
5.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

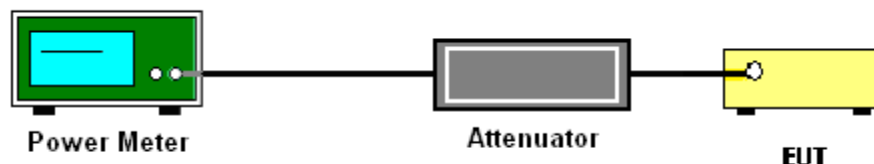
3.1.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.1.4 Test Setup



**3.1.5 Test Result of Maximum Conducted Output Power**

Band IV									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail
11a	6M bps	1	149	5745	0.60	10.71	30.00	2.00	Pass
11a	6Mbps	1	157	5785	0.60	10.54	30.00	2.00	Pass
11a	6Mbps	1	165	5825	0.60	10.70	30.00	2.00	Pass
HT20	MCS 0	1	149	5745	0.63	10.86	30.00	2.00	Pass
HT20	MCS 0	1	157	5785	0.63	10.68	30.00	2.00	Pass
HT20	MCS 0	1	165	5825	0.63	10.87	30.00	2.00	Pass
HT40	MCS 0	1	151	5755	1.18	8.87	30.00	2.00	Pass
HT40	MCS 0	1	159	5795	1.18	9.70	30.00	2.00	Pass

3.2 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

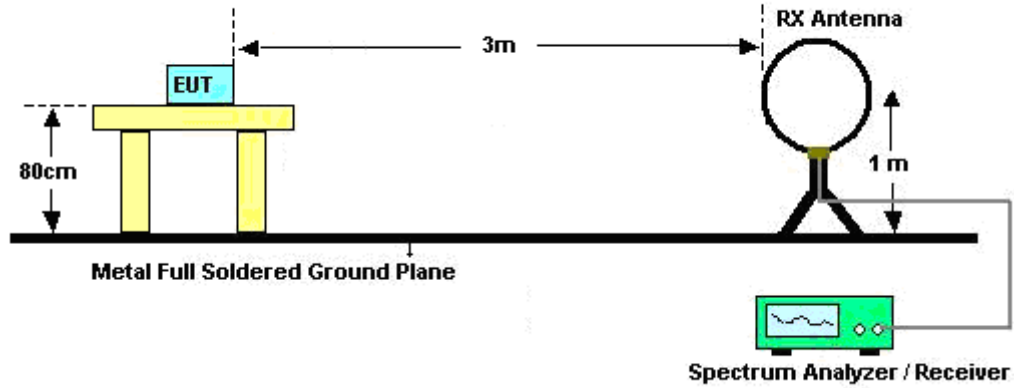


3.2.3 Test Procedures

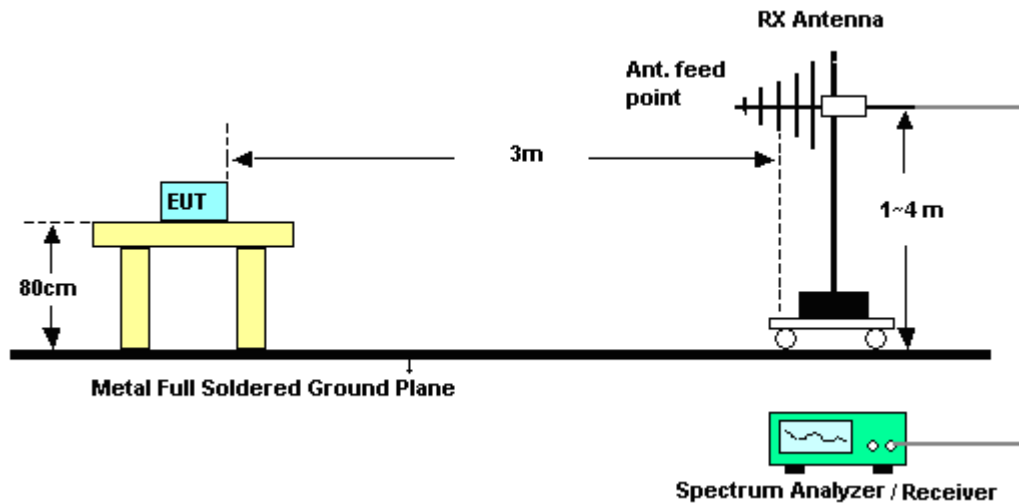
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.2.4 Test Setup

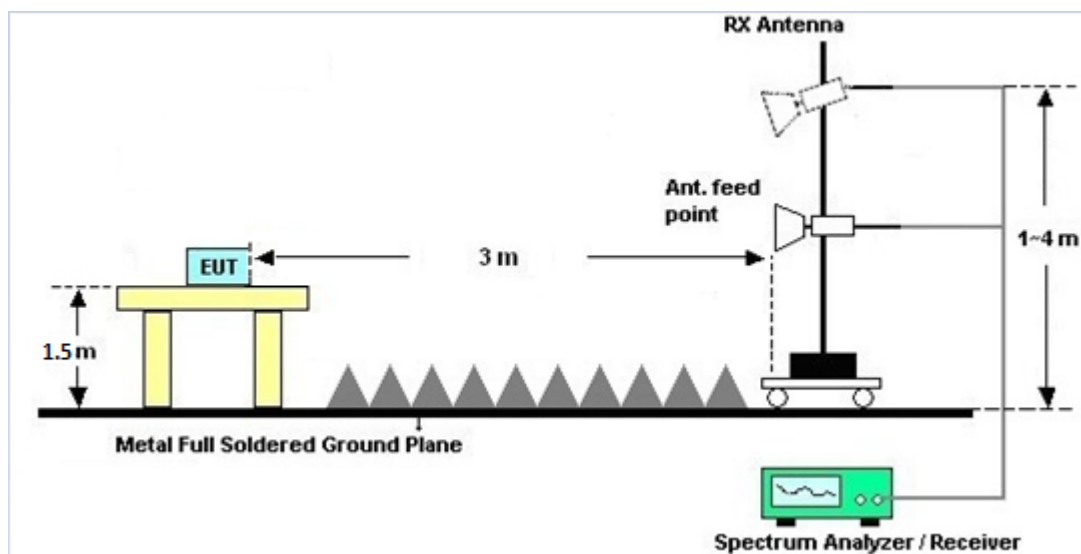
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.2.6 Test Result of Radiated Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

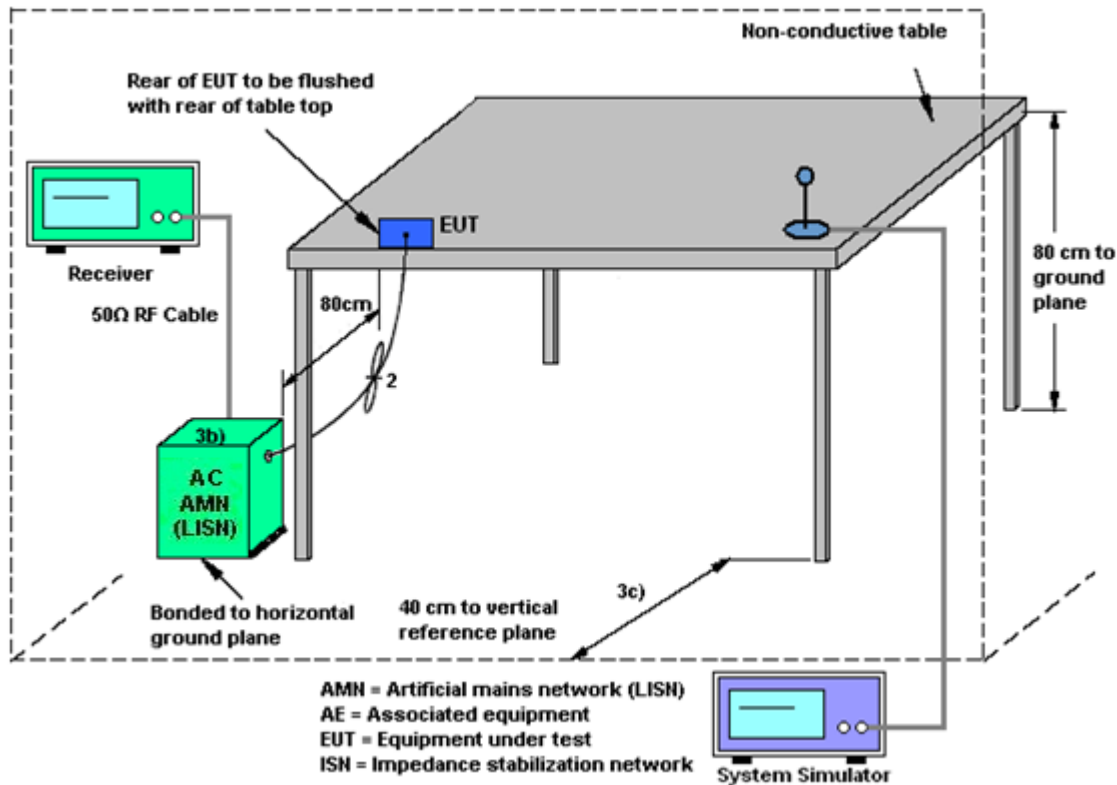
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

3.4 Automatically Discontinue Transmission

3.4.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



3.5 Antenna Requirements

3.5.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.5.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Pulse Power Sensor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 22, 2018	Feb. 25, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 22, 2018	Feb. 25, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 19, 2018	Feb. 25, 2019	Apr. 18, 2019	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 19, 2018	Feb. 25, 2019	Apr. 18, 2019	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2018	Feb. 25, 2019	May 13, 2019	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Apr. 19, 2018	Feb. 25, 2019	Apr. 18, 2019	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Mar. 29, 2018	Feb. 25, 2019	Mar. 28, 2019	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 30, 2018	Feb. 25, 2019	Jul. 29, 2019	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Mar. 30, 2018	Feb. 25, 2019	Mar. 29, 2019	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz~3000MHz	Oct. 18, 2018	Feb. 25, 2019	Oct. 17, 2019	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2018	Feb. 25, 2019	Oct. 17, 2019	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 23, 2018	Feb. 25, 2019	Dec. 22, 2019	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Feb. 25, 2019	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 25, 2019	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 25, 2019	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 23, 2018	Dec. 28, 2018	Dec. 22, 2019	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 18, 2018	Dec. 28, 2018	Oct. 17, 2019	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 23, 2018	Dec. 28, 2018	Dec. 22, 2019	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 18, 2018	Dec. 28, 2018	Jul. 17, 2019	Conduction (CO01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.6 dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
---	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

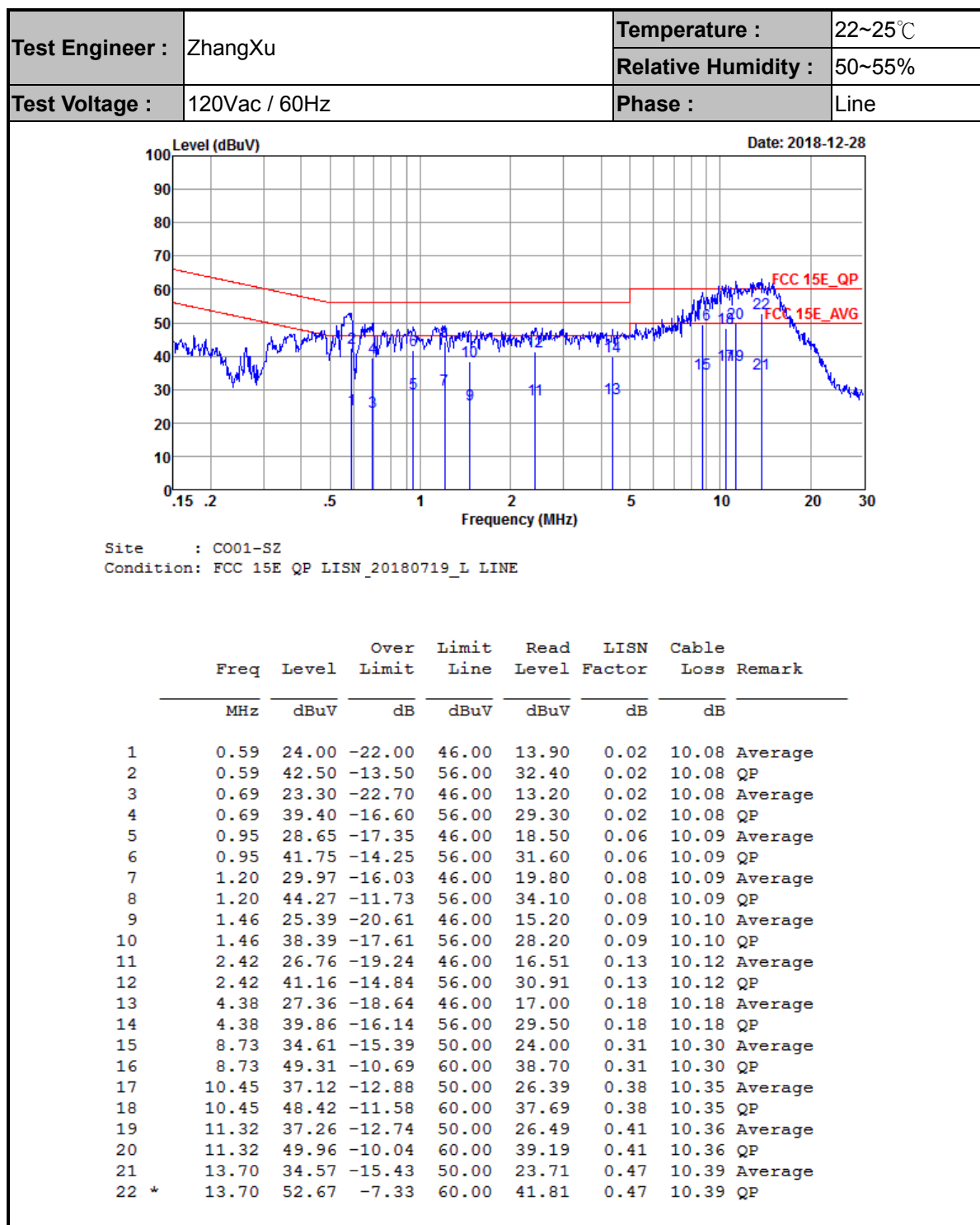
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
---	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
---	--------

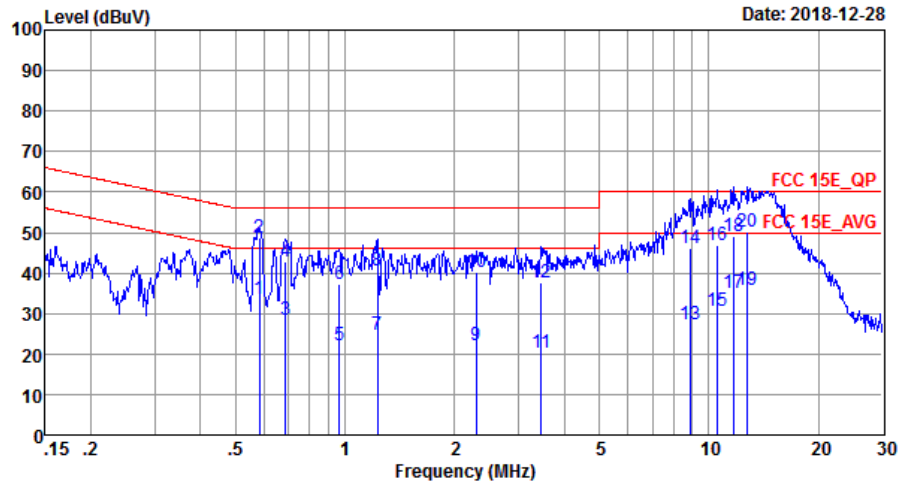


Appendix A. AC Conducted Emission Test Results





Test Engineer :	ZhangXu	Temperature :	22~25℃
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : C001-SZ
Condition: FCC 15E_QP LISN_20180719_N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.58	33.70	-12.30	46.00	23.60	0.02	10.08	Average
2 *	0.58	48.60	-7.40	56.00	38.50	0.02	10.08	QP
3	0.69	28.30	-17.70	46.00	18.20	0.02	10.08	Average
4	0.69	42.80	-13.20	56.00	32.70	0.02	10.08	QP
5	0.96	22.24	-23.76	46.00	12.10	0.05	10.09	Average
6	0.96	37.24	-18.76	56.00	27.10	0.05	10.09	QP
7	1.23	24.54	-21.46	46.00	14.40	0.05	10.09	Average
8	1.23	40.64	-15.36	56.00	30.50	0.05	10.09	QP
9	2.30	22.26	-23.74	46.00	12.10	0.04	10.12	Average
10	2.30	40.36	-15.64	56.00	30.20	0.04	10.12	QP
11	3.45	20.29	-25.71	46.00	10.10	0.04	10.15	Average
12	3.45	37.59	-18.41	56.00	27.40	0.04	10.15	QP
13	8.87	27.24	-22.76	50.00	16.80	0.13	10.31	Average
14	8.87	46.04	-13.96	60.00	35.60	0.13	10.31	QP
15	10.51	30.53	-19.47	50.00	20.00	0.18	10.35	Average
16	10.51	46.93	-13.07	60.00	36.40	0.18	10.35	QP
17	11.74	34.99	-15.01	50.00	24.41	0.22	10.36	Average
18	11.74	49.19	-10.81	60.00	38.61	0.22	10.36	QP
19	12.78	35.64	-14.36	50.00	25.00	0.26	10.38	Average
20	12.78	50.04	-9.96	60.00	39.40	0.26	10.38	QP



Appendix B. Radiated Spurious Emission

Test Engineer :	Zhongmin Zhang	Temperature :	23~25°C
		Relative Humidity :	48~52%



Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5614.4	46.25	-21.95	68.2	37.59	31.58	9.2	32.12	223	73	P	H
		5692.6	48.64	-51.1	99.74	39.62	31.78	9.25	32.01	223	73	P	H
		5719.2	57.95	-52.63	110.58	48.74	31.91	9.28	31.98	223	73	P	H
		5724.8	69.31	-52.43	121.74	60.1	31.91	9.28	31.98	223	73	P	H
	*	5745	101.3	-	-	91.97	31.97	9.3	31.94	223	73	P	H
	*	5745	94.06	-	-	84.73	31.97	9.3	31.94	223	73	A	H
		5624.8	46.11	-22.09	68.2	37.41	31.59	9.23	32.12	282	338	P	V
		5691.6	47.16	-51.85	99.01	38.14	31.78	9.25	32.01	282	338	P	V
		5719.8	54.86	-55.88	110.74	45.65	31.91	9.28	31.98	282	338	P	V
		5724	64.11	-55.81	119.92	54.9	31.91	9.28	31.98	282	338	P	V
	*	5745	96.23	-	-	86.9	31.97	9.3	31.94	282	338	P	V
	*	5745	89.89	-	-	80.56	31.97	9.3	31.94	282	338	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5642.2	45.77	-22.43	68.2	37.02	31.6	9.23	32.08	182	77	P	H
		5688.2	46.89	-49.61	96.5	37.87	31.78	9.25	32.01	182	77	P	H
		5719.6	46.6	-64.09	110.69	37.39	31.91	9.28	31.98	182	77	P	H
		5722.2	45.23	-70.59	115.82	36.02	31.91	9.28	31.98	182	77	P	H
	*	5785	99.74	-	-	90.19	32.09	9.33	31.87	182	77	P	H
	*	5785	93.33	-	-	83.78	32.09	9.33	31.87	182	77	A	H
		5852.4	46.16	-70.57	116.73	36.26	32.34	9.36	31.8	182	77	P	H
		5864	45.73	-62.55	108.28	35.7	32.4	9.39	31.76	182	77	P	H
		5917.2	47.69	-26.26	73.95	37.46	32.5	9.42	31.69	182	77	P	H
		5940.2	47.73	-20.47	68.2	37.37	32.56	9.45	31.65	182	77	P	H
		5639.2	45.98	-22.22	68.2	37.23	31.6	9.23	32.08	143	346	P	V
		5698.4	46.12	-57.9	104.02	37.1	31.78	9.25	32.01	143	346	P	V
		5719.8	47.16	-63.58	110.74	37.95	31.91	9.28	31.98	143	346	P	V
		5721.6	45.16	-69.29	114.45	35.95	31.91	9.28	31.98	143	346	P	V
	*	5785	95.56	-	-	86.01	32.09	9.33	31.87	143	346	P	V
	*	5785	89.6	-	-	80.05	32.09	9.33	31.87	143	346	A	V
		5850.4	46	-75.29	121.29	36.1	32.34	9.36	31.8	143	346	P	V
		5869.4	46.22	-60.55	106.77	36.19	32.4	9.39	31.76	143	346	P	V
		5880.8	47.57	-53.32	100.89	37.51	32.43	9.39	31.76	143	346	P	V
		5947.4	48.75	-19.45	68.2	38.39	32.56	9.45	31.65	143	346	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	99.86	-	-	90.05	32.28	9.36	31.83	191	76	P	H
	*	5825	92.82	-	-	83.01	32.28	9.36	31.83	191	76	A	H
		5851	57.56	-62.36	119.92	47.66	32.34	9.36	31.8	191	76	P	H
		5855	53.18	-57.62	110.8	43.22	32.4	9.36	31.8	191	76	P	H
		5877	48.41	-55.3	103.71	38.35	32.43	9.39	31.76	191	76	P	H
		5929.4	49.62	-18.58	68.2	39.36	32.53	9.42	31.69	191	76	P	H
	*	5825	95.33	-	-	85.52	32.28	9.36	31.83	143	348	P	V
	*	5825	89.39	-	-	79.58	32.28	9.36	31.83	143	348	A	V
		5852.8	52.78	-63.04	115.82	42.88	32.34	9.36	31.8	143	348	P	V
		5857.8	51.16	-58.85	110.01	41.13	32.4	9.39	31.76	143	348	P	V
		5880.4	47.25	-53.94	101.19	37.19	32.43	9.39	31.76	143	348	P	V
		5932.4	48.1	-20.1	68.2	37.84	32.53	9.42	31.69	143	348	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	44.47	-29.53	74	49.01	41.18	12.04	57.76	160	360	P	H
		17235	52.87	-15.33	68.2	53.61	42.4	14.83	57.97	170	360	P	H
		11490	43.23	-30.77	74	47.77	41.18	12.04	57.76	160	360	P	V
		17235	54.14	-14.06	68.2	54.88	42.4	14.83	57.97	170	360	P	V
802.11a CH 157 5785MHz		11570	45.34	-28.66	74	49.96	40.98	12.07	57.67	175	198	P	H
		17355	54.01	-14.19	68.2	53.81	43.1	14.9	57.8	189	185	P	H
		11570	44.91	-29.09	74	49.53	40.98	12.07	57.67	175	198	P	V
		17355	54.97	-13.23	68.2	54.77	43.1	14.9	57.8	189	185	P	V
802.11a CH 165 5825MHz		11650	46.86	-27.14	74	51.59	40.76	12.1	57.59	156	347	P	H
		17475	57.16	-11.04	68.2	56.04	43.8	14.96	57.64	150	360	P	H
		11650	45.31	-28.69	74	50.04	40.76	12.1	57.59	156	347	P	V
		17475	56.77	-11.43	68.2	55.65	43.8	14.96	57.64	150	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5621	46.29	-21.91	68.2	37.62	31.59	9.2	32.12	184	78	P	H
		5693.2	50.84	-49.35	100.19	41.82	31.78	9.25	32.01	184	78	P	H
		5719.8	61.64	-49.1	110.74	52.43	31.91	9.28	31.98	184	78	P	H
		5723.4	73.25	-45.3	118.55	64.04	31.91	9.28	31.98	184	78	P	H
	*	5745	100.37	-	-	91.04	31.97	9.3	31.94	184	78	P	H
	*	5745	93.88	-	-	84.55	31.97	9.3	31.94	184	78	A	H
		5625.2	45.95	-22.25	68.2	37.25	31.59	9.23	32.12	203	351	P	V
		5693.2	48.39	-51.8	100.19	39.37	31.78	9.25	32.01	203	351	P	V
		5719.2	57.41	-53.17	110.58	48.2	31.91	9.28	31.98	203	351	P	V
		5724.2	70.25	-50.13	120.38	61.04	31.91	9.28	31.98	203	351	P	V
	*	5745	97.56	-	-	88.23	31.97	9.3	31.94	203	351	P	V
	*	5745	91.79	-	-	82.46	31.97	9.3	31.94	203	351	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5631.2	47.3	-20.9	68.2	38.56	31.59	9.23	32.08	243	44	P	H
		5696.2	48.05	-54.35	102.4	39.03	31.78	9.25	32.01	243	44	P	H
		5703	47.57	-58.47	106.04	38.45	31.85	9.28	32.01	243	44	P	H
		5721.4	47.86	-66.13	113.99	38.65	31.91	9.28	31.98	243	44	P	H
	*	5785	99.52	-	-	89.97	32.09	9.33	31.87	243	44	P	H
	*	5785	94.32	-	-	84.77	32.09	9.33	31.87	243	44	A	H
		5850.2	47.3	-74.44	121.74	37.4	32.34	9.36	31.8	243	44	P	H
		5869.4	47.17	-59.6	106.77	37.14	32.4	9.39	31.76	243	44	P	H
		5889.8	48.06	-46.16	94.22	37.92	32.47	9.39	31.72	243	44	P	H
		5946.4	48.19	-20.01	68.2	37.83	32.56	9.45	31.65	243	44	P	H
		5614.4	47.36	-20.84	68.2	38.7	31.58	9.2	32.12	104	338	P	V
		5650	48.01	-20.19	68.2	39.2	31.66	9.23	32.08	104	338	P	V
		5704.2	46.95	-59.43	106.38	37.83	31.85	9.28	32.01	104	338	P	V
		5721.2	46.21	-67.33	113.54	37	31.91	9.28	31.98	104	338	P	V
	*	5785	96.37	-	-	86.82	32.09	9.33	31.87	104	338	P	V
	*	5785	90.38	-	-	80.83	32.09	9.33	31.87	104	338	A	V
		5854	46.92	-66.16	113.08	36.96	32.4	9.36	31.8	104	338	P	V
		5858.2	48.12	-61.78	109.9	38.09	32.4	9.39	31.76	104	338	P	V
		5921.2	47.68	-23.32	71	37.45	32.5	9.42	31.69	104	338	P	V
		5925.2	47.41	-20.79	68.2	37.15	32.53	9.42	31.69	104	338	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	99.51	-	-	89.7	32.28	9.36	31.83	227	43	P	H
	*	5825	93.81	-	-	84	32.28	9.36	31.83	227	43	A	H
		5850	56.94	-65.26	122.2	47.04	32.34	9.36	31.8	227	43	P	H
		5860.6	52.8	-56.43	109.23	42.77	32.4	9.39	31.76	227	43	P	H
		5877.2	51.01	-52.56	103.57	40.95	32.43	9.39	31.76	227	43	P	H
		5939.2	47.47	-20.73	68.2	37.11	32.56	9.45	31.65	227	43	P	H
	*	5825	95.96	-	-	86.15	32.28	9.36	31.83	105	342	P	V
	*	5825	89.63	-	-	79.82	32.28	9.36	31.83	105	342	A	V
		5851.6	53.7	-64.85	118.55	43.8	32.34	9.36	31.8	105	342	P	V
		5860.4	50.63	-58.66	109.29	40.6	32.4	9.39	31.76	105	342	P	V
		5877	47.48	-56.23	103.71	37.42	32.43	9.39	31.76	105	342	P	V
		5935.8	48.78	-19.42	68.2	38.45	32.53	9.45	31.65	105	342	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11490	44.29	-29.71	74	48.83	41.18	12.04	57.76	160	360	P	H
HT20		17235	53.66	-14.54	68.2	54.4	42.4	14.83	57.97	170	360	P	H
CH 149		11490	45.37	-28.63	74	49.91	41.18	12.04	57.76	160	360	P	V
5745MHz		17235	53.84	-14.36	68.2	54.58	42.4	14.83	57.97	170	360	P	V
802.11n		11570	45.36	-28.64	74	49.98	40.98	12.07	57.67	175	198	P	H
HT20		17355	54.6	-13.6	68.2	54.4	43.1	14.9	57.8	189	185	P	H
CH 157		11570	45.53	-28.47	74	50.15	40.98	12.07	57.67	175	198	P	V
5785MHz		17355	54.39	-13.81	68.2	54.19	43.1	14.9	57.8	189	185	P	V
802.11n		11650	47.25	-26.75	74	51.98	40.76	12.1	57.59	156	347	P	H
HT20		17475	56.48	-11.72	68.2	55.36	43.8	14.96	57.64	150	360	P	H
CH 165		11650	45.98	-28.02	74	50.71	40.76	12.1	57.59	156	347	P	V
5825MHz		17475	57.02	-11.18	68.2	55.9	43.8	14.96	57.64	150	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5638.8	46.87	-21.33	68.2	38.12	31.6	9.23	32.08	235	44	P	H
		5692	48.52	-50.78	99.3	39.5	31.78	9.25	32.01	235	44	P	H
		5717	58.09	-51.87	109.96	48.94	31.85	9.28	31.98	235	44	P	H
		5723.2	61.9	-56.2	118.1	52.69	31.91	9.28	31.98	235	44	P	H
	*	5755	95.02	-	-	85.63	32.03	9.3	31.94	235	44	P	H
	*	5755	89.11	-	-	79.72	32.03	9.3	31.94	235	44	A	H
		5854.8	46	-65.26	111.26	36.04	32.4	9.36	31.8	235	44	P	H
		5873	46.83	-58.93	105.76	36.77	32.43	9.39	31.76	235	44	P	H
		5920.2	47.98	-23.76	71.74	37.75	32.5	9.42	31.69	235	44	P	H
		5945.6	48.47	-19.73	68.2	38.11	32.56	9.45	31.65	235	44	P	H
		5640.8	46.27	-21.93	68.2	37.52	31.6	9.23	32.08	100	337	P	V
		5692.4	46.93	-52.67	99.6	37.91	31.78	9.25	32.01	100	337	P	V
		5718.8	56.25	-54.21	110.46	47.04	31.91	9.28	31.98	100	337	P	V
		5724.2	56.15	-64.23	120.38	46.94	31.91	9.28	31.98	100	337	P	V
	*	5755	89.26	-	-	79.87	32.03	9.3	31.94	100	337	P	V
	*	5755	83.26	-	-	73.87	32.03	9.3	31.94	100	337	A	V
		5852.4	46.69	-70.04	116.73	39.89	32.34	9.36	34.9	100	337	P	V
		5855	46.93	-63.87	110.8	36.97	32.4	9.36	31.8	100	337	P	V
		5875.4	47.75	-57.15	104.9	37.69	32.43	9.39	31.76	100	337	P	V
		5928.6	47.95	-20.25	68.2	37.69	32.53	9.42	31.69	100	337	P	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5634.2	46.49	-21.71	68.2	37.74	31.6	9.23	32.08	230	44	P	H
		5675.2	47.21	-39.68	86.89	38.29	31.72	9.25	32.05	230	44	P	H
		5715.4	46.84	-62.67	109.51	37.69	31.85	9.28	31.98	230	44	P	H
		5722.6	46.82	-69.91	116.73	37.61	31.91	9.28	31.98	230	44	P	H
	*	5795	95.06	-	-	85.45	32.15	9.33	31.87	230	44	P	H
	*	5795	89.4	-	-	79.79	32.15	9.33	31.87	230	44	A	H
		5850.8	47.67	-72.71	120.38	37.77	32.34	9.36	31.8	230	44	P	H
		5859.2	47.73	-61.89	109.62	37.7	32.4	9.39	31.76	230	44	P	H
		5914	47.94	-28.37	76.31	37.71	32.5	9.42	31.69	230	44	P	H
		5946.2	48.91	-19.29	68.2	38.55	32.56	9.45	31.65	230	44	P	H
		5607.2	47.78	-20.42	68.2	39.12	31.58	9.2	32.12	113	339	P	V
		5664	47.02	-31.57	78.59	38.16	31.66	9.25	32.05	113	339	P	V
		5710	46.6	-61.4	108	37.45	31.85	9.28	31.98	113	339	P	V
		5724.6	46.94	-74.35	121.29	37.73	31.91	9.28	31.98	113	339	P	V
	*	5795	90.9	-	-	81.29	32.15	9.33	31.87	113	339	P	V
	*	5795	83.25	-	-	73.64	32.15	9.33	31.87	113	339	A	V
		5854	47.88	-65.2	113.08	37.92	32.4	9.36	31.8	113	339	P	V
		5855	47.5	-63.3	110.8	37.54	32.4	9.36	31.8	113	339	P	V
		5921.2	47.45	-23.55	71	37.22	32.5	9.42	31.69	113	339	P	V
		5936.2	47.4	-20.8	68.2	37.07	32.53	9.45	31.65	113	339	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		30.97	22.86	-17.14	40	31.08	23.71	0.57	32.5	115	88	P	H
		56.19	17.78	-22.22	40	36.52	12.94	0.77	32.45			P	H
		142.52	22.73	-20.77	43.5	36.19	17.2	1.24	31.9			P	H
		257.95	24.21	-21.79	46	34.6	19.76	1.69	31.84			P	H
		399.57	27.24	-18.76	46	35.13	21.7	2.12	31.71			P	H
		894.27	28.77	-17.23	46	29.84	26.67	3.31	31.05			P	H
		30	31.94	-8.06	40	39.58	24.3	0.56	32.5	132	77	P	V
		59.1	28.17	-11.83	40	47.33	12.46	0.78	32.4			P	V
		87.23	20.81	-19.19	40	37.64	14	0.97	31.8			P	V
		251.16	21.4	-24.6	46	32.61	18.93	1.66	31.8			P	V
		595.51	26.38	-19.62	46	30.37	24.64	2.67	31.3			P	V
		896.21	28.99	-17.01	46	30.02	26.68	3.31	31.02			P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

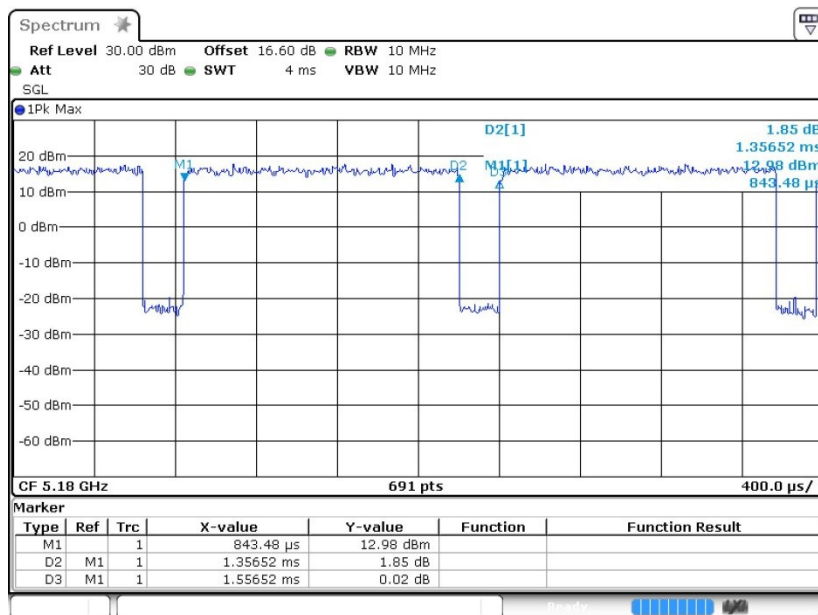
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix C. Duty Cycle Plots

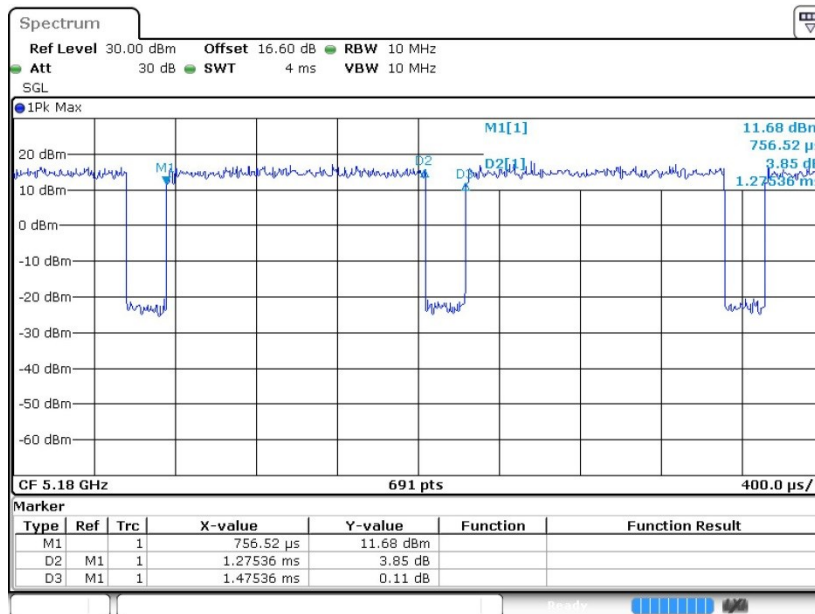
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	87.15	1.357	0.737	1KHz
802.11n HT20	86.44	1.275	0.784	1KHz
802.11n HT40	76.12	0.638	1.568	3KHz

802.11a





802.11n HT20



802.11n HT40

