FCC RF Test Report

APPLICANT : PAX Technology Limited

EQUIPMENT: Smart Tablet

BRAND NAME : PAX
MODEL NAME : Aries6

FCC ID : V5PAR6LITE

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Nov. 06, 2019 and testing was completed on Nov. 29, 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.

Reviewed by: Derreck Chen / Supervisor

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Approved by: Eric Shih / Manager

Sporton International (ShenZhen) Inc.

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People's Republic of China

Sporton International (Shenzhen) Inc.

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Cert #5145.01

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REVISION HISTORY

Report No. : FR941109-01C

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR941109-01C	Rev. 01	Initial issue of report	Dec. 19, 2019

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	1
-	-	99% Bandwidth	-	Pass	1
-	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	1
-	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	1
	45 247(4)	Conducted Band Edges	≤ 20dBc	Pass	1
_	15.247(d)	Conducted Spurious Emission		Pass	1
3.1	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.90 dB at 2483.680 MHz
3.2	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.83 dB at 9.200 MHz
3.3	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

Remark 1: Test items are performed on original report which can be referred to Sporton report number FR941109C.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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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.

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1.3 Product Feature of Equipment Under Test

Product Feature			
Equipment	Smart Tablet		
Brand Name	PAX		
Model Name	Aries6		
FCC ID	V5PAR6LITE		
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR / EDR / LE NFC		
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	2412 MHz ~ 2462 MHz	
Antenna Type / Gain	Internal Antenna with gain 1.50 dBi	
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)	

1.5 Modification of EUT

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

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1.6 Re-use of Measured Data

1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: Aries6, FCC ID: V5PAR6LITE) is electrically identical to the reference device (Model: Aries6, FCC ID: V5PAR6) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix E (Sporton RF Report No. FR941109C for the reference device Model: Aries6, FCC ID: V5PAR6).

1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
			All sections applicable
DSS (BR/EDR)	V5PAR6	Part15C(FR941109A)	except AC Conducted
			Emission and RSE
			All sections applicable
DTS (BLE)	V5PAR6	Part15C(FR941109B)	except AC Conducted
			Emission and RSE
			All sections applicable
DTS (WLAN)	V5PAR6	Part15C(FR941109C)	except AC Conducted
			Emission and RSE
			All sections applicable
DXX(NFC)	V5PAR6	Part15C(FR941109D)	except AC Conducted
			Emission and RSE

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1.6.4 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: V5PAR6.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	V5PAR6 Worst Result	V5PAR6LITE Worst Result	Difference (dB)
	Bluetooth BR	9.90	7.77	-2.13
Peak Conducted	Bluetooth LE	3.70	3.50	-0.20
Power (dBm)	WLAN 802.11b	16.10	15.50	-0.60
	WLAN 802.11a	13.80	13.42	-0.38
Radiated Spurious Emission (Band Edge. Haromic) (dBuV/m)	NFC	36.99	37.13	0.14

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1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

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lest Filli	Sporton international (Sherizhen) inc.			
Test Site Location 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Sher 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595				
	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	
Test Site No.	CO01-SZ TH01-SZ	CN1256	421272	
Test Firm Sporton International (Shenzhen) Inc.				
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nansh Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398			
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b

1.9 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 C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

- 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.

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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 (X plane) were recorded in this report.

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b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	1	2412	7	2442
	2	2417	8	2447
2400-2483.5 MHz	3	2422	9	2452
2400-2463.5 IVITZ	4	2427	10	2457
	5	2432	11	2462
	6	2437		

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2.2 Test Mode

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

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

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	Test Cases				
AC Conducted Emission	Mode 1 :Bluetooth Link + WLAN Link (2.4G) + USB Cable(Charging from Adapter) + Earphone				
	Remark: For Radiated Test Cases, The tests were performance with Adapter , Earphone and USB				
Cable.					

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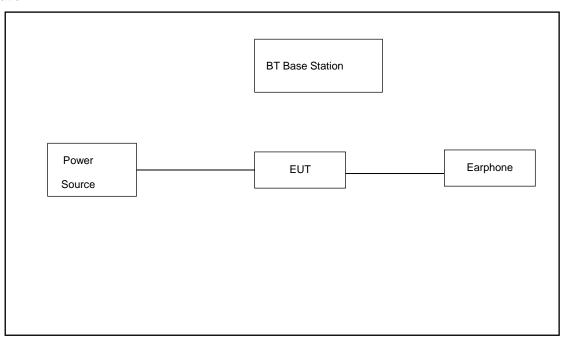
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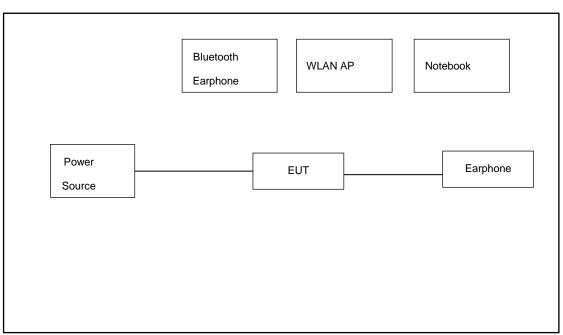
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2.3 Connection Diagram of Test System

For Radiation



For Conducted Emission



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
2.	Notebook	FCC DoC	FCC DoC	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A

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2.5 EUT Operation Test Setup

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

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

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3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

3.1.2 Measuring Instruments

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

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3.1.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.

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- 3. 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.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 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.
- 8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold:
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 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.

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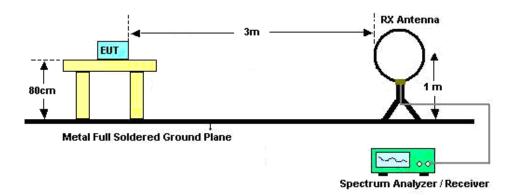
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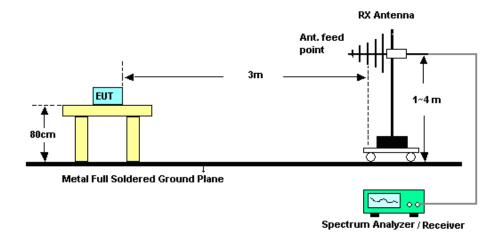
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3.1.4 Test Setup

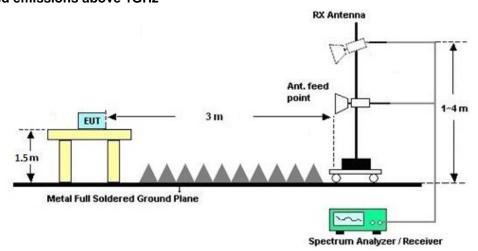
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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.

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

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.1.7 Duty Cycle

Please refer to Appendix C.

3.1.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

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3.2 AC Conducted Emission Measurement

3.2.1 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	Conducted Limit (dBµV)					
(MHz)	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.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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 (IF bandwidth = 9kHz) with Maximum Hold Mode.

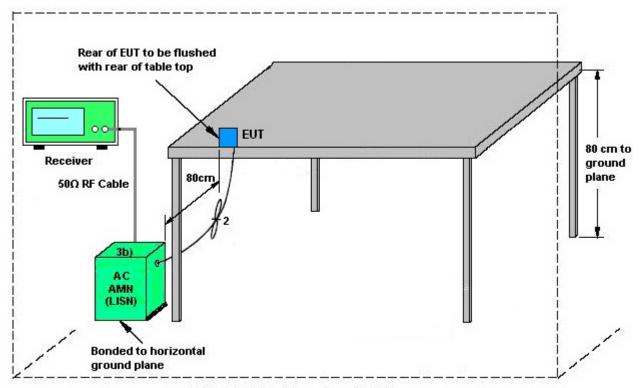
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3.2.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

3.2.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

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3.3 Antenna Requirements

3.3.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 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.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Apr. 19, 2019	Nov. 29, 2019	Apr. 18, 2020	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 29, 2018	Nov. 29, 2019	May 28, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 19, 2019	Nov. 29, 2019	Jul. 18, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-128 5	1GHz~18GHz	Jan. 07, 2019	Nov. 29, 2019	Jan. 06, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 22, 2019	Nov. 29, 2019	Jul. 21, 2020	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 18, 2019	Nov. 29, 2019	Apr. 17, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2019	Nov. 29, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18, 2019	Nov. 29, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY532701 05	0.5GHz~26.5Gh z	Oct. 18, 2019	Nov. 29, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002 470	N/A	NCR	Nov. 29, 2019	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Nov. 29, 2019	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Nov. 29, 2019	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 23, 2018	Nov. 21, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 17, 2019	Nov. 21, 2019	Oct. 16, 2020	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 23, 2018	Nov. 21, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 23, 2019	Nov. 21, 2019	Jul. 22, 2020	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International (Shenzhen) Inc.

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Uncertainty of Evaluation 5

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.

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

Measuring Uncertainty for a Level of Confidence	2.6dB
of 95% (U = 2Uc(y))	2.000

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Manager and the contribute formal and a form	
Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.VQB

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

Measurin	g Uncertainty for a Level of Confidence	5.0dB
	of 95% (U = 2Uc(y))	5.00B

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

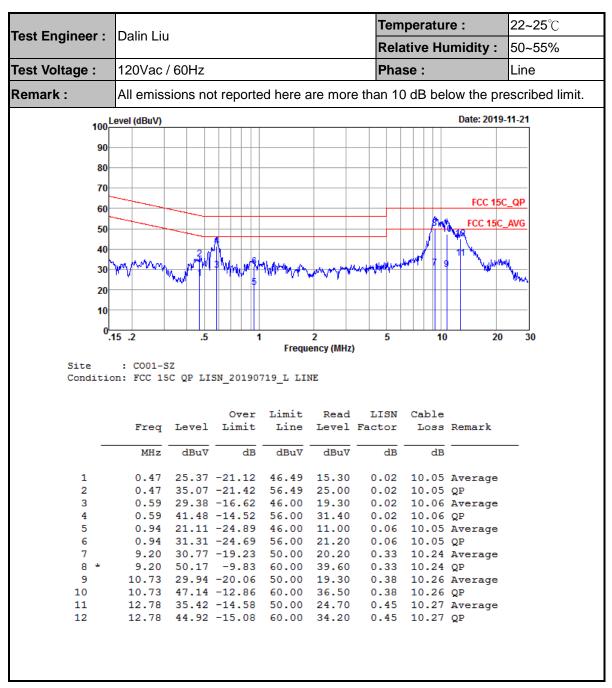
Measuring Uncertainty for a Level of Confidence	4.4dB
of 95% (U = 2Uc(y))	4.4ub

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Appendix A. AC Conducted Emission Test Results



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	Dalia Lin				Tem	perature :	22	~25°C	
Test Engineer :	Dalin Liu	1			Rela	ative Humi	idity: 50	50~55% Neutral	
Test Voltage :	120Vac /	60Hz			Pha	se :	Ne		
Remark :	All emiss	sions no	t reporte	ed here a	are more	e than 10	dB below	the presc	ribed lim
100L	evel (dBuV)						D	ate: 2019-11-2	1
90									
80									-
70									_
								FCC 15C_QP	
60	_								-
50								FCC 15C_AVG	<u> </u>
		7	Л				/////		
40		Mal	3 u met	m .					_
30	TOWN AND THE STREET	. J# 711	"WAL / "	har hand hall in	wat wat was	~~garagraryrah	40100 I 9 II	V. Jacobson	-
30			11 11 14 11 1	100	1 1 1			Alle .	N
	Λ. _λ (Ι.),	ון וייק. אַי	' ' '	•					
20-	Λ.A	M M	1 77	,					
	A.A.	W.W	' ''' '						_
20-	A.A.	V '	' '' '' 5						_
20- 10-	15 .2	.5	1		2	5	10	20	30
20- 10- 0- Site	: CO01-S	Z		Frequ	ency (MHz)		10	20	30
20- 10- 0- Site		Z		Frequ	ency (MHz)		10	20	30
20- 10- 0- Site	: CO01-S	Z	SN_20190'	Frequ 719_N NE	ency (MHz) UTRAL Read				30
20- 10- 0- Site	: CO01-S	Z C_QP LI	SN_20190	Frequ 719_N NE	ency (MHz) UTRAL Read	LISN	Cable		30
20- 10- 0- Site	: CO01-S on: FCC 15 Freq	Level	SN_20190 Over Limit	Frequ 719_N NET Limit LinedBuV	UTRAL Read Level dBuV	LISN Factor	Cable Loss Re	mark	30
20- 10- 0- Site Condition	: CO01-S on: FCC 15 Freq	Level dBuV 28.67	SN_20190' Over Limit dB	Frequence Freque	Read Level dBuV	LISN Factor dB	Cable Loss Re	mark erage	30
20- 10- 0. Site Condition	: C001-S on: FCC 15 Freq MHz 0.48	Level dBuV 28.67 37.37 34.38	Over Limit dB -17.65 -18.95 -11.62	Frequ 719_N NE Limit Line dBuV 46.32 56.32 46.00	Read Level dBuV 18.60 27.30 24.30	LISN Factor dB 0.02 0.02	Cable Loss Re dB	mark erage	30
20- 10- 0- Site Condition	: C001-S on: FCC 15 Freq MHz 0.48 0.48 0.58	Level dBuV 28.67 37.37 34.38 44.78	Over Limit dB -17.65 -18.95 -11.62 -11.22	Frequence	Read Level dBuV 18.60 27.30 24.30 34.70	LISN Factor dB 0.02 0.02 0.02 0.02 0.02	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 Av 10.06 QP	mark erage erage	30
20- 10- 0- Site Condition	: C001-S on: FCC 15 Freq MHz 0.48 0.48 0.58 0.58 1.03	Level dBuV 28.67 37.37 34.38 44.78 21.10	Over Limit dB -17.65 -18.95 -11.62 -11.22 -24.90	Frequence Freque	Read Level dBuV 18.60 27.30 24.30 34.70 11.00	LISN Factor dB 0.02 0.02 0.02 0.02 0.02 0.05	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 Av 10.06 QP 10.05 Av	mark erage erage erage	30
20- 10- 0- Site Condition	: C001-S on: FCC 15 Freq MHz 0.48 0.48 0.58 0.58 1.03 1.03	Level dBuV 28.67 37.37 34.38 44.78 21.10 33.10	Over Limit dB -17.65 -18.95 -11.62 -11.22 -24.90 -22.90	Frequence	Read Level	LISN Factor dB 0.02 0.02 0.02 0.02 0.05 0.05	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 Av 10.06 QP 10.05 Av 10.05 QP	mark erage erage erage	30
20- 10- 0- Site Condition	: C001-S on: FCC 15 Freq MHz 0.48 0.48 0.58 0.58 1.03 1.03 9.30	Level dBuV 28.67 37.37 34.38 44.78 21.10 33.10 34.58	Over Limit dB -17.65 -18.95 -11.62 -11.22 -24.90 -22.90 -15.42	Frequence Freque	Read Level dBuV 18.60 27.30 24.30 34.70 11.00 23.00 24.20	LISN Factor dB 0.02 0.02 0.02 0.02 0.05 0.05 0.14	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 Av 10.06 QP 10.05 Av 10.05 QP 10.05 Av 10.05 QP	mark erage erage erage erage	30
20- 10- 0- Site Condition	: C001-S on: FCC 15 Freq MHz 0.48 0.48 0.58 1.03 1.03 9.30 9.30	Level dBuV 28.67 37.37 34.38 44.78 21.10 33.10 34.58 48.48	Over Limit -17.65 -18.95 -11.62 -11.22 -24.90 -22.90 -15.42 -11.52	Trequent Time Time Time Time Time Time Time Time	Read Level dBuV 18.60 27.30 24.30 34.70 11.00 23.00 24.20 38.10	LISN Factor dB 0.02 0.02 0.02 0.02 0.05 0.05 0.14 0.14	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 Av 10.06 QP 10.05 Av 10.05 QP 10.24 Av 10.24 QP	mark erage erage erage erage	30
20- 10- 0- Site Condition	: C001-S on: FCC 1S Freq MHz 0.48 0.58 0.58 1.03 1.03 9.30 9.30 10.51	Level dBuV 28.67 37.37 34.38 44.78 21.10 33.10 34.58 48.48 32.64	Over Limit dB -17.65 -18.95 -11.62 -11.22 -24.90 -22.90 -15.42 -11.52 -17.36	Frequent Frequency T19_N NET Limit Line dBuV 46.32 56.32 46.00 56.00 56.00 50.00 50.00 50.00 50.00	Read Level dBuV 18.60 27.30 24.30 34.70 11.00 23.00 24.20 38.10 22.21	LISN Factor dB 0.02 0.02 0.02 0.05 0.05 0.14 0.14 0.18	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 QP 10.05 Av 10.05 QP 10.05 Av 10.05 QP 10.24 Av 10.24 QP 10.25 Av	mark erage erage erage erage erage	30
20- 10- 0- Site Condition 1 2 3 4 * 5 6 7 8 9 10	: C001-S on: FCC 1S Freq MHz 0.48 0.58 0.58 1.03 1.03 9.30 9.30 10.51 10.51	Level dBuV 28.67 37.37 34.38 44.78 21.10 33.10 34.58 48.48 32.64 45.44	Over Limit dB -17.65 -18.95 -11.62 -11.22 -24.90 -22.90 -15.42 -11.52 -17.36 -14.56	Frequence Freque	Read Level	LISN Factor dB 0.02 0.02 0.02 0.02 0.05 0.05 0.14 0.14 0.18 0.18	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 QP 10.05 QP 10.05 QP 10.24 Av 10.24 QP 10.25 Av 10.25 QP	mark erage erage erage erage erage	30
20- 10- 0- Site Condition	: C001-S on: FCC 1S Freq MHz 0.48 0.58 0.58 1.03 1.03 9.30 9.30 10.51 10.51 12.19	Level dBuV 28.67 37.37 34.38 44.78 21.10 33.10 34.58 48.48 32.64 45.44 32.51	Over Limit dB -17.65 -18.95 -11.62 -11.22 -24.90 -22.90 -15.42 -11.52 -17.36	Frequence Freque	Read Level	LISN Factor dB 0.02 0.02 0.02 0.02 0.05 0.05 0.14 0.14 0.18 0.18 0.24	Cable Loss Re dB 10.05 Av 10.05 QP 10.06 QP 10.05 Av 10.05 QP 10.05 Av 10.05 QP 10.24 Av 10.24 QP 10.25 Av	mark erage erage erage erage erage erage	30

Note:

- 1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
		2347.48	46.95	-27.05	74	44.36	27.9	7.51	32.82	320	293	Р	Н
		2389.17	36.37	-17.63	54	33.93	27.7	7.54	32.8	320	293	Α	Н
802.11b	*	2412	92.52	-	-	90.09	27.67	7.54	32.78	320	293	Р	Н
602.11b CH 01	*	2412	90.2	-	-	87.77	27.67	7.54	32.78	320	293	Α	Н
2412MHz		2334.04	47.9	-26.1	74	45.33	27.93	7.48	32.84	100	248	Р	V
2412111112		2389.38	36.99	-17.01	54	34.55	27.7	7.54	32.8	100	248	Α	V
	*	2412	97.21	-	-	94.78	27.67	7.54	32.78	100	248	Р	٧
	*	2412	94.99	-	-	92.56	27.67	7.54	32.78	100	248	Α	٧
		2359.42	47.83	-26.17	74	45.31	27.83	7.51	32.82	307	283	Р	I
		2357.32	36.27	-17.73	54	33.75	27.83	7.51	32.82	307	283	Α	I
	*	2437	93.51	-	-	91.13	27.6	7.54	32.76	307	283	Р	Н
	*	2437	90.74	-	-	88.36	27.6	7.54	32.76	307	283	Α	Н
		2498.39	47.24	-26.76	74	45.01	27.4	7.53	32.7	307	283	Р	Н
802.11b		2483.69	36.15	-17.85	54	33.87	27.47	7.53	32.72	307	283	Α	Н
CH 06 2437MHz		2361.8	47	-27	74	44.48	27.83	7.51	32.82	100	248	Р	٧
2437 WIFIZ		2389.8	36.45	-17.55	54	33.99	27.7	7.54	32.78	100	248	Α	٧
	*	2437	97.85	-	-	95.47	27.6	7.54	32.76	100	248	Р	V
	*	2437	94.12	-	-	91.74	27.6	7.54	32.76	100	248	Α	V
		2491.32	46.82	-27.18	74	44.61	27.4	7.53	32.72	100	248	Р	٧
		2485.23	36.4	-17.6	54	34.12	27.47	7.53	32.72	100	248	Α	V

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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)	($dB\mu V/m$)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	2462	93.82	-	-	91.49	27.53	7.54	32.74	306	284	Р	Н
	*	2462	91.44	-	-	89.11	27.53	7.54	32.74	306	284	Α	Н
000 441		2499	47.4	-26.6	74	45.17	27.4	7.53	32.7	306	284	Р	Н
802.11b		2483.52	36.61	-17.39	54	34.33	27.47	7.53	32.72	306	284	Α	Н
CH 11 2462MHz	*	2462	97.92	-	1	95.59	27.53	7.54	32.74	100	247	Р	V
2402WII 12	*	2462	95.52	-	-	93.19	27.53	7.54	32.74	100	247	Α	V
		2486.92	48.72	-25.28	74	46.44	27.47	7.53	32.72	100	247	Р	V
		2483.52	37.63	-16.37	54	35.35	27.47	7.53	32.72	100	247	Α	V

Remark

No other spurious found.

2. All results are PASS against Peak and Average limit line.

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2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)		Avg. (P/A)	(H/V)
802.11b		4824	38.9	-35.1	74	57.93	31.15	9.86	60.04	185	255	Р	Н
CH 01 2412MHz		4824	37.8	-36.2	74	56.83	31.15	9.86	60.04	185	255	Р	V
		4874	39.3	-34.7	74	58.32	31.13	9.88	60.03	165	106	Р	Н
802.11b		7311	44.76	-29.24	74	56.99	36.4	11.88	60.51	174	100	Р	Н
CH 06 2437MHz		4874	37.66	-36.34	74	56.68	31.13	9.88	60.03	165	106	Р	V
2437 WITIZ		7311	45.91	-28.09	74	58.14	36.4	11.88	60.51	174	100	Р	V
		4924	40.22	-33.78	74	59.1	31.23	9.91	60.02	150	285	Р	Н
802.11b		7386	44.73	-29.27	74	56.95	36.3	12.01	60.53	155	274	Р	Н
CH 11		4924	37.78	-36.22	74	56.66	31.23	9.91	60.02	150	285	Р	V
2462MHz		7386	45.86	-28.14	74	58.08	36.3	12.01	60.53	155	274	Р	V

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz WIFI 802.11g (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)		(P/A)	
		2387.28	53.48	-20.52	74	51.04	27.7	7.54	32.8	313	291	Р	Н
		2389.90	40.87	-13.13	54	38.41	27.7	7.54	32.78	313	291	Α	Η
000 44	*	2412	94.94	-	-	92.51	27.67	7.54	32.78	313	291	Р	Н
802.11g CH 01	*	2412	87.95	-	-	85.52	27.67	7.54	32.78	313	291	Α	Н
2412MHz		2387.07	60.6	-13.4	74	58.16	27.7	7.54	32.8	101	226	Р	V
24 ZIVII Z		2389.90	47.48	-6.52	54	45.02	27.7	7.54	32.78	101	226	Α	V
	*	2412	101.6	-	-	99.17	27.67	7.54	32.78	101	226	Р	V
	*	2412	92.91	-	-	90.48	27.67	7.54	32.78	101	226	Α	٧
		2349.48	47.33	-26.67	74	44.74	27.9	7.51	32.82	312	276	Р	Н
		2311.96	37.26	-16.74	54	34.67	27.97	7.48	32.86	312	276	Α	Н
	*	2437	94.83	-	-	92.45	27.6	7.54	32.76	312	276	Р	Н
	*	2437	87.7	-	-	85.32	27.6	7.54	32.76	312	276	Α	I
//		2497.62	47.53	-26.47	74	45.3	27.4	7.53	32.7	312	276	Р	Н
802.11g CH 06		2496.99	37.18	-16.82	54	34.95	27.4	7.53	32.7	312	276	Α	Н
2437MHz		2323.02	47.55	-26.45	74	44.98	27.93	7.48	32.84	100	228	Р	٧
2437 WIF12		2389.94	37.59	-16.41	54	35.13	27.7	7.54	32.78	100	228	Α	V
	*	2437	101.48	-	-	99.1	27.6	7.54	32.76	100	228	Р	V
	*	2437	94.07	-	-	91.69	27.6	7.54	32.76	100	228	Α	V
		2491.18	48.67	-25.33	74	46.46	27.4	7.53	32.72	100	228	Р	V
		2484.74	38.58	-15.42	54	36.3	27.47	7.53	32.72	100	228	Α	V

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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)
	*	2462	94.91	-	-	92.58	27.53	7.54	32.74	312	276	Р	Н
	*	2462	87.69	-	-	85.36	27.53	7.54	32.74	312	276	Α	Н
		2483.52	52.59	-21.41	74	50.31	27.47	7.53	32.72	312	276	Р	Н
802.11g		2483.6	39.84	-14.16	54	37.56	27.47	7.53	32.72	312	276	Α	Н
CH 11 2462MHz	*	2462	102.32	-	-	99.99	27.53	7.54	32.74	100	226	Р	٧
2402111112	*	2462	94.94	-	-	92.61	27.53	7.54	32.74	100	226	Α	٧
		2483.92	61.49	-12.51	74	59.21	27.47	7.53	32.72	100	226	Р	٧
		2483.68	49.1	-4.9	54	46.82	27.47	7.53	32.72	100	226	Α	٧

Remark

. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant		Peak	Pol.
Ant. 1		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11g		4824	38.67	-35.33	74	57.7	31.15	9.86	60.04	185	255	Р	Н
CH 01 2412MHz		4824	37.12	-36.88	74	56.15	31.15	9.86	60.04	185	255	Р	٧
		4874	38.64	-35.36	74	57.66	31.13	9.88	60.03	165	106	Р	Н
802.11g		7311	45.21	-28.79	74	57.44	36.4	11.88	60.51	174	100	Р	Н
CH 06 2437MHz		4874	38.89	-35.11	74	57.91	31.13	9.88	60.03	165	106	Р	V
2437 WIFI2		7311	44.83	-29.17	74	57.06	36.4	11.88	60.51	174	100	Р	V
		4924	37.32	-36.68	74	56.2	31.23	9.91	60.02	150	285	Р	Н
802.11g		7386	45.48	-28.52	74	57.7	36.3	12.01	60.53	155	274	Р	Н
CH 11 2462MHz		4924	38.26	-35.74	74	57.14	31.23	9.91	60.02	150	285	Р	V
24021111112		7386	45.25	-28.75	74	57.47	36.3	12.01	60.53	155	274	Р	V

Remark

Sporton International (Shenzhen) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (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)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.27	50.56	-23.44	74	48.12	27.7	7.54	32.8	102	245	Р	Н
		2389.48	39.83	-14.17	54	37.39	27.7	7.54	32.8	102	245	Α	Н
802.11n	*	2412	92.49	-	-	90.06	27.67	7.54	32.78	102	245	Р	Н
HT20	*	2412	85.72	-	-	83.29	27.67	7.54	32.78	102	245	Α	Н
CH 01		2389.69	57.23	-16.77	74	54.79	27.7	7.54	32.8	100	226	Р	٧
2412MHz		2389.90	43.95	-10.05	54	41.49	27.7	7.54	32.78	100	226	Α	V
	*	2412	99.36	-	-	96.93	27.67	7.54	32.78	100	226	Р	V
	*	2412	90.94	-	-	88.51	27.67	7.54	32.78	100	226	Α	V
		2373.28	47.18	-26.82	74	44.7	27.77	7.51	32.8	102	245	Р	I
		2310.84	37.15	-16.85	54	34.56	27.97	7.48	32.86	102	245	Α	Н
	*	2437	92.61	-	-	90.23	27.6	7.54	32.76	102	245	Р	Н
	*	2437	84.63	-	-	82.25	27.6	7.54	32.76	102	245	Α	Н
802.11n		2495.1	46.51	-27.49	74	44.28	27.4	7.53	32.7	102	245	Р	Н
HT20		2487.61	37.18	-16.82	54	34.97	27.4	7.53	32.72	102	245	Α	Н
CH 06		2336.88	47.58	-26.42	74	45.04	27.9	7.48	32.84	100	227	Р	V
2437MHz		2315.74	38.35	-15.65	54	35.74	27.97	7.48	32.84	100	227	Α	V
	*	2437	100.1	-	-	97.72	27.6	7.54	32.76	100	227	Р	V
	*	2437	92.23	-	-	89.85	27.6	7.54	32.76	100	227	Α	V
		2494.05	47.76	-26.24	74	45.53	27.4	7.53	32.7	100	227	Р	V
		2483.97	37.95	-16.05	54	35.67	27.47	7.53	32.72	100	227	Α	V

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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)
	*	2462	92.46	-	-	90.13	27.53	7.54	32.74	100	92	Р	Н
	*	2462	85.88	-	-	83.55	27.53	7.54	32.74	100	92	Α	Н
802.11n		2485.92	50.58	-23.42	74	48.3	27.47	7.53	32.72	100	92	Р	Н
HT20		2483.72	39.08	-14.92	54	36.8	27.47	7.53	32.72	100	92	Α	Н
CH 11	*	2462	99.31	-	-	96.98	27.53	7.54	32.74	100	225	Р	V
2462MHz	*	2462	92.77	-	-	90.44	27.53	7.54	32.74	100	225	Α	V
		2484.68	59.57	-14.43	74	57.29	27.47	7.53	32.72	100	225	Р	V
		2483.6	45.01	-8.99	54	42.73	27.47	7.53	32.72	100	225	Α	V

Remark

. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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2.4GHz 2400~2483.5MHz WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Peak Pol. Note Frequency Over Limit Read Antenna Cable Preamp Ant Table Level Avg. Limit Line **Factor** Pos Pos Ant. Level Loss **Factor** (MHz) (dBµV/m) (dB) (dB \(\psi V/m \) (dB_µV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 1 802.11n 4824 37.93 -36.07 74 56.96 31.15 9.86 60.04 185 255 Ρ Н **HT20** CH 01 4824 37.8 -36.2 74 56.83 31.15 9.86 60.04 185 255 Ρ V 2412MHz 4874 -34.95 58.07 31.13 9.88 60.03 165 Ρ Η 802.11n 39.05 74 106 Ρ HT20 7311 45.38 -28.62 74 57.61 36.4 11.88 60.51 174 100 Н **CH 06** 4874 39.48 -34.52 74 58.5 31.13 9.88 60.03 165 106 Ρ ٧ 2437MHz Р 7311 45.94 -28.06 74 58.17 36.4 11.88 60.51 174 100 V 4924 38.49 -35.51 74 57.37 31.23 9.91 60.02 150 285 Ρ Н 802.11n **HT20** 7386 44.5 -29.5 74 56.72 36.3 12.01 60.53 155 274 Н CH 11 Ρ ٧ 4924 37.76 -36.24 74 56.64 31.23 9.91 60.02 150 285 2462MHz Р ٧ 44.24 -29.76 74 36.3 12.01 60.53 155 274 7386 56.46

Remark

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No other spurious found.

All results are PASS against Peak and Average limit line.

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

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)
		30	22.77	-17.23	40	28.71	24.8	0.56	31.3	100	222	Р	Н
		107.6	21.73	-21.77	43.5	35.64	16.6	1.07	31.58	-	-	Р	Н
		127	21.88	-21.62	43.5	34.78	17.43	1.16	31.49	-	-	Р	Н
		404.42	24.55	-21.45	46	31.93	21.9	2.13	31.41	-	-	Р	Н
		515.97	26.8	-19.2	46	31.4	24.2	2.44	31.24	-	-	Р	Н
2.4GHz		965.08	29.51	-24.49	54	27.32	30.04	3.42	31.27	-	-	Р	Н
802.11g LF		30	30.79	-9.21	40	36.73	24.8	0.56	31.3	100	159	Р	٧
LF		61.04	24.91	-15.09	40	43.83	11.88	0.8	31.6	-	-	Р	V
		130.88	22.88	-20.62	43.5	35.72	17.45	1.19	31.48	-	-	Р	٧
		276.38	20.24	-25.76	46	30.77	19.27	1.74	31.54	-	-	Р	٧
		618.79	27.12	-18.88	46	29.97	25.97	2.71	31.53	-	-	Р	V
		899.12	29.24	-16.76	46	28.42	29	3.32	31.5	-	-	Р	٧

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Remark

1. No other spurious found.
2. All results are PASS again

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	Peak or Average
H/V	Horizontal or Vertical

Sporton International (Shenzhen) Inc.

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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)	(dB _µ V)	(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	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

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

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

For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

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

Sporton International (Shenzhen) Inc.

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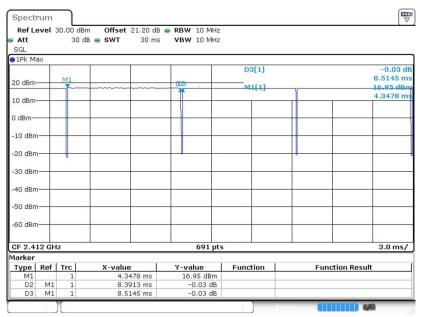
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Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.55	-	-	10Hz
802.11g	93.24	1.399	0.715	1kHz
802.11n HT20	92.78	1.304	0.767	1kHz

802.11b

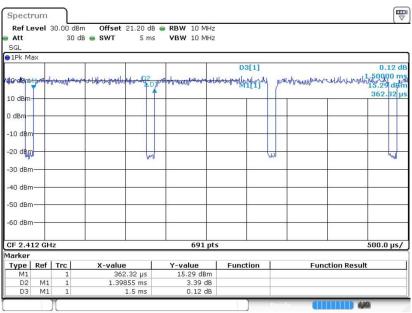


Date: 18.NOV.2019 12:19:48

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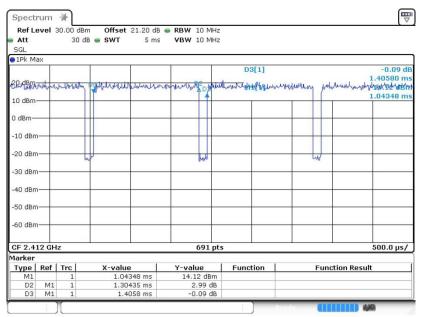
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802.11n HT20



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Appendix E. Reference Report

Please refer to Sporton report number FR941109A which is issued separately.

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