FCC Test Report

APPLICANT : Bullitt Group

EQUIPMENT: Rugged Smart Phone

BRAND NAME : CAT MODEL NAME : S31

FCC ID : ZL5S31

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Aug. 06, 2017 and testing was completed on Sep. 15, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Wu

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 1 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Testing Laboratory 1190

Report No.: FC770420-02

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
		RY OF TEST RESULT	
30	IVIIVIAN	AT OF TEST RESULT	4
1.	GENE	ERAL DESCRIPTION	5
	1.1. 1.2. 1.3. 1.4. 1.5. 1.6.	Applicant Manufacturer Product Feature of Equipment Under Test Modification of EUT Test Location Applicable Standards	5 6
2.	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	7
	2.1.2.2.2.3.2.4.	Test Mode Connection Diagram of Test System Support Unit used in test configuration and system EUT Operation Test Setup	8 8
3.	3.1. 3.2.	Test of AC Conducted Emission Measurement Test of Radiated Emission Measurement	10
4.	LIST	OF MEASURING EQUIPMENT	20
5.	UNCE	ERTAINTY OF EVALUATION	2 1
ΑP	PEND	IX A. SETUP PHOTOGRAPHS	

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 2 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC770420-02	Rev. 01	Initial issue of report	Sep. 28, 2017

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 3 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit
3.1				FAGG	11.70 dB at 0.198 MHz
					Under limit
3.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	3.04 dB at 30.000 MHz
					for Quasi-Peak

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 4 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

1. General Description

1.1. Applicant

Bullitt Group

One Valpy, Valpy Street, Reading, Berkshire, England RG1 1AR

1.2. Manufacturer

Compal Electronics, INC.

No. 385, Yangguang St. Neihu District, Taipei City 11491, Taiwan, R.O.C

1.3. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, FM Receiver, and GPS

Product Specification subjective to this standard							
	WWAN: Coupling type (LDS) Antenna WLAN: PIFA Antenna						
Antenna Type	Bluetooth: PIFA Antenna GPS / Glonass / BDS: PIFA Antenna						
	FM: Integral Antenna						
	(Earphone acting as FM antenna deemed as an integral antenna)						

<Sample information>

S31 has 2 different Variant					
Sample 1 Dual SIM					
Sample 2	Single SIM				
For Dual-SIM or Single-SIM control by SW, The HW difference is SIM holder					

Remark: All test items were performed with Sample 1.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 5 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

1.4. Modification of EUT

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

1.5. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1093 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Took Cita Logation	Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.				
Test Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Toot Site No	Sporton	Site No.			
Test Site No.	CO05-HY	03CH06-HY			

1.6. Applicable Standards

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

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 6 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 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 (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + NFC on + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + NFC on + Camera (Front) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
AC Conducted	Mode 3: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + NFC on + Camera (Rear) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
Emission	Mode 4: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + NFC on + FM Rx (98MHz) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 5: Flight mode + Earphone + Battery + USB Cable (Data Link with Notebook) + SIM 1
	Mode 6: Flight mode + Earphone + Battery + USB Cable (Data Link with Notebook) + SIM 2
	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Camera (Front) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
Radiated	Mode 3: LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + Camera (Rear) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
Emissions	Mode 4: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + FM Rx (98MHz) + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1
	Mode 5: Flight mode + Earphone + Battery + USB Cable (Data Link with Notebook) + SIM 1
	Mode 6: GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 2

Remark:

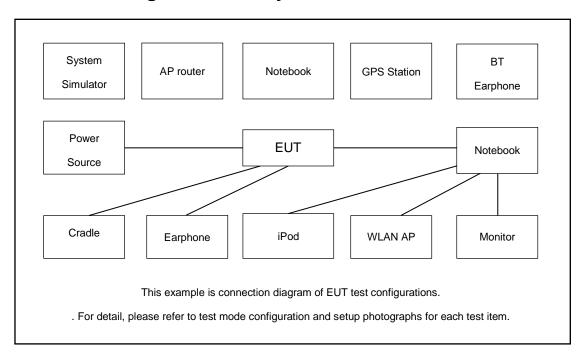
- 1. The worst case of AC is mode 5; only the test data of this mode was reported.
- 2. The worst case of RE is mode 1; only the test data of this mode was reported.
- 3. The USB Link mode of RE is mode 5; the test data of this mode was reported.
- 4. Data Link with Notebook means data application transferred mode between EUT and Notebook.

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 7 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

2.2. Connection Diagram of Test System



2.3. 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.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 8 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Laptop and EUT via USB cable.
- 2. Execute "Video Player" to play MPEG4 files.
- 3. Turn on FM function.
- 4. Turn on GPS function to make the EUT receive continuous signals from system simulator.
- 5. Turn on camera to capture images.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 9 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits 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 (dBuV)			
(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.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

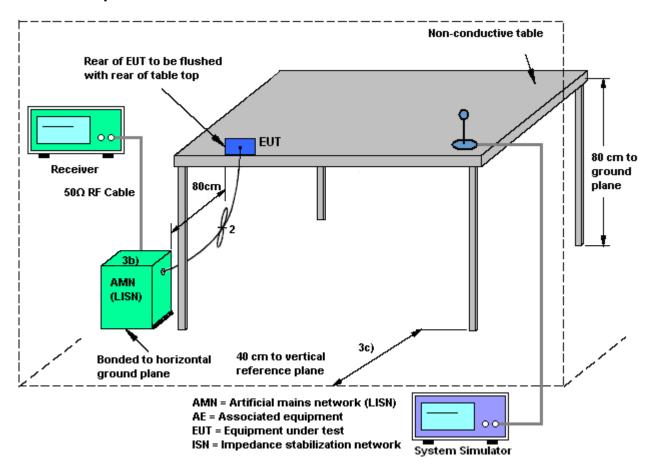
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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 (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 10 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

C Test Report No. : FC770420-02

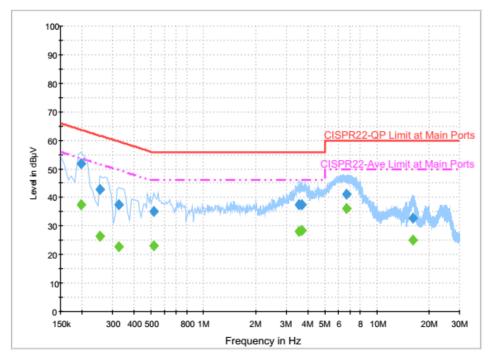
3.1.4 Test Setup



TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 11 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Sharoof Vi	Temperature :	26~27℃
rest Engineer.	Shareer fu	Relative Humidity :	58~62%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	52.0	Off	L1	19.5	11.7	63.7
0.254000	42.8	Off	L1	19.5	18.8	61.6
0.326000	37.3	Off	L1	19.5	22.3	59.6
0.518000	35.0	Off	L1	19.5	21.0	56.0
3.566000	37.5	Off	L1	19.6	18.5	56.0
3.702000	37.5	Off	L1	19.6	18.5	56.0
6.662000	41.0	Off	L1	19.6	19.0	60.0
16.182000	32.6	Off	L1	19.7	27.4	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	37.5	Off	L1	19.5	16.2	53.7
0.254000	26.3	Off	L1	19.5	25.3	51.6
0.326000	22.8	Off	L1	19.5	26.8	49.6
0.518000	23.2	Off	L1	19.5	22.8	46.0
3.566000	28.2	Off	L1	19.6	17.8	46.0
3.702000	28.6	Off	L1	19.6	17.4	46.0
6.662000	36.0	Off	L1	19.6	14.0	50.0
16.182000	25.0	Off	L1	19.7	25.0	50.0

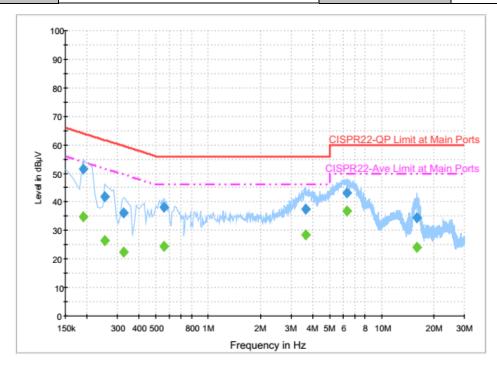
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 12 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

CC Test Report Report No.: FC770420-02

Toot Engineer		Temperature :	26~27℃
rest Engineer.	ngineer: Shareef Yu	Relative Humidity :	58~62%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	51.5	Off	N	19.5	12.5	64.0
0.254000	41.9	Off	N	19.5	19.7	61.6
0.326000	36.2	Off	N	19.5	23.4	59.6
0.558000	38.0	Off	N	19.5	18.0	56.0
3.646000	37.6	Off	N	19.5	18.4	56.0
6.302000	43.2	Off	N	19.6	16.8	60.0
15.974000	34.6	Off	N	19.8	25.4	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	34.7	Off	N	19.5	19.3	54.0
0.254000	26.6	Off	N	19.5	25.0	51.6
0.326000	22.5	Off	N	19.5	27.1	49.6
0.558000	24.4	Off	N	19.5	21.6	46.0
3.646000	28.4	Off	N	19.5	17.6	46.0
6.302000	36.8	Off	N	19.6	13.2	50.0
15.974000	24.0	Off	N	19.8	26.0	50.0

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 13 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

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 on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to 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 tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

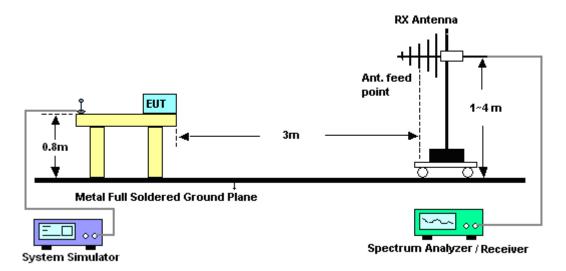
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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 14 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

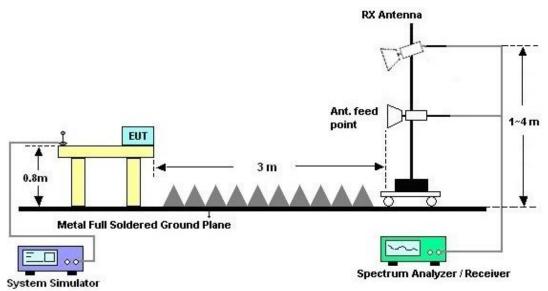
Report No.: FC770420-02

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

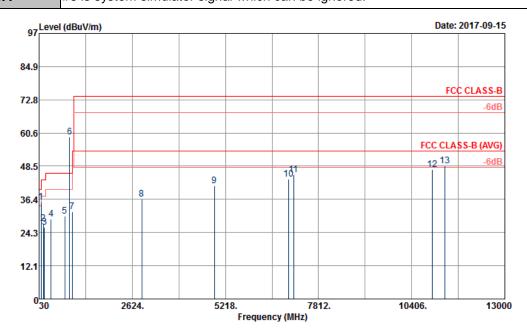


TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 15 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	26~27°C						
Test Engineer :	Kai-Chun Chu and Donny Tang	Relative Humidity :	51~53%						
Test Distance :	3m	Polarization : Horizontal							
Remark :	#6 is system simulator signal which can be ignored.								



Site : 03CH06-HY

Condition : FCC CLASS-B 3m 9120D_1522_170807 HORIZONTAL

Project : 770420-02 Power : 120Vac/60Hz

Memo : Mode 1

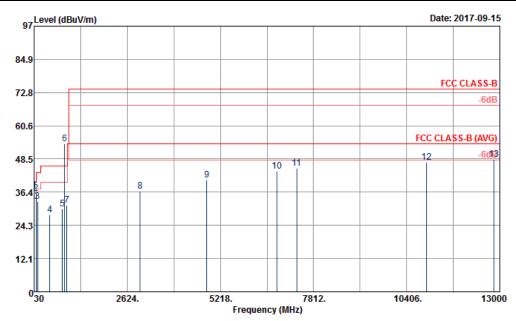
MICHIO		MOUE									
	Frea	Level	Over Limit			Intenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	11 64	Level	LIMIT	LINE	Level	raccor	LUSS	i ac coi			Kellar K
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	Cm	deg	
1	83.46	35.45	-4.55	40.00	51.70	13.57	2.00	31.82	382	282	QP
2	149.88	27.64	-15.86	43.50	40.32	16.99	2.12	31.79			Peak
3	174.99	26.32	-17.18	43.50	40.95	15.13	2.02	31.78			Peak
4	369.30	29.07	-16.93	46.00	37.77	20.73	2.35	31.78			Peak
5	750.10	30.23	-15.77	46.00	30.60	28.27	3.40	32.04			Peak
6 *	881.70	59.12			58.17	29.22	3.36	31.63			Peak
7	956.60	31.87	-14.13	46.00	28.83	31.03	3.06	31.05			Peak
8	2896.00	36.44	-37.56	74.00	61.32	28.66	7.69	61.23			Peak
9	4912.00	41.33	-32.67	74.00	57.93	31.94	10.73	59.27			Peak
10	6988.00	43.82	-30.18	74.00	54.02	36.26	12.75	59.21			Peak
11	7120.00	45.43	-28.57	74.00	55.20	36.64	12.77	59.18			Peak
12	10974.00	47.28	-26.72	74.00	48.35	39.76	16.24	57.07			Peak
13	11334.00	48.65	-25.35	74.00	48.54	40.20	16.58	56.67	100	135	Peak

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 16 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0



Test Mode :	Mode 1	Temperature :	26~27°C					
Test Engineer :	Kai-Chun Chu and Donny Tang	Relative Humidity :	51~53%					
Test Distance :	3m	Polarization :	Vertical					
Remark ·	#6 is system simulator signal which can be ignored							



: 03CH06-HY Site

: FCC CLASS-B 3m 9120D_1522_170807 VERTICAL Condition

: 770420-02 Project :120Vac/60Hz Power : Mode 1 Memo

			0ver	Limit	Read/	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	36.96	-3.04	40.00	42.60	24.30	1.90	31.84	100	159	OD
									100		•
2	81.84	35.82	-4.18	40.00	52.23	13.36	2.05	31.82			Peak
3	130.71	33.01	-10.49	43.50	45.09	17.64	2.08	31.80			Peak
4	468.00	28.02	-17.98	46.00	33.52	23.55	2.83	31.88			Peak
5	822.90	30.17	-15.83	46.00	29.84	28.87	3.34	31.88			Peak
6	* 881.70	54.04			53.09	29.22	3.36	31.63			Peak
7	943.30	31.63	-14.37	46.00	28.89	30.81	3.10	31.17			Peak
8	2986.00	36.67	-37.33	74.00	61.24	28.86	7.86	61.29			Peak
9	4838.00	40.81	-33.19	74.00	57.69	31.82	10.77	59.47			Peak
10	6784.00	44.12	-29.88	74.00	55.14	35.76	12.51	59.29			Peak
11	7344.00	45.02	-28.98	74.00	53.75	37.27	13.13	59.13			Peak
12	10962.00	47.22	-26.78	74.00	48.36	39.72	16.21	57.07			Peak
13	12840.00	48.42	-25.58	74.00	49.99	39.50	17.71	58.78	100	158	Peak

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31

Page Number : 17 of 21 Report Issued Date: Sep. 28, 2017 Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

26~27°C Test Mode: Mode 5 Temperature: 51~53% Test Engineer: Kai-Chun Chu and Donny Tang Relative Humidity: Test Distance: 3m Polarization: Horizontal 97 Level (dBuV/m) Date: 2017-09-15 FCC CLASS-B 72.8 -6dB 60.6 FCC CLASS-B (AVG) 48.5 8 36.4 24.3 12.1 030 2624. 5218. 7812. 10406. 13000 Frequency (MHz) Site : 03CH06-HY Condition : FCC CLASS-B 3m 9120D_1522_170807 HORIZONTAL Project : 770420-02 Power : Power From System Memo : Mode 5 ReadAntenna Cable Preamp Over Limit A/Pos T/Pos Freq Level Limit Line Level Factor Remark Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m deg cm46.74 30.15 -9.85 40.00 44.53 15.61 1.85 31.84 --- Peak 1 189.03 36.67 -6.83 43.50 51.79 14.69 1.96 31.77 --- Peak 265.98 40.80 -5.20 46.00 50.74 19.58 131 Peak 3 2.23 31.75 100 342.00 37.43 -8.57 46.00 46.88 20.07 2.25 --- Peak 479.90 36.65 -9.35 46.00 41.96 --- Peak 23.73 31.90 2.86 721.40 32.83 -13.17 46.00 33.84 27.64 3.43 32.08 --- Peak 7 1836.00 44.01 -29.99 74.00 73.10 25.93 5.95 60.97 --- Peak 4922.00 41.27 -32.73 74.00 57.81 6978.00 44.55 -29.45 74.00 54.77 8 31.98 10.71 59.23 --- Peak 36.26 12.73 59.21 --- Peak 7336.00 45.07 -28.93 74.00 53.86 37.27 13.07 --- Peak 10 59.13 10794.00 47.77 -26.23 74.00 49.88 39.30 16.07 57.48 --- Peak

11294.00 48.40 -25.60 74.00 48.40 40.16 16.55 56.71

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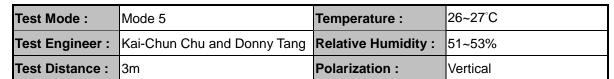
Page Number : 18 of 21 Report Issued Date: Sep. 28, 2017 : Rev. 01 Report Version

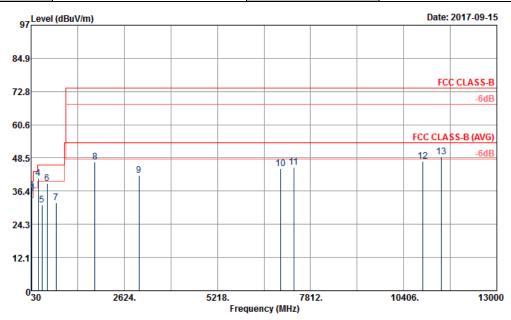
100

160 Peak

Report Template No.: BU5-FD15B Version 2.0

FCC Test Report





Site : 03CH06-HY

Condition $: FCC\ CLASS-B\ 3m\ 9120D_1522_170807\ VERTICAL$

Project : 770420-02

Power : Power From System

Memo : Mode 5

			0ver	Limit	Read	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.97	34.38	-5.62	40.00	41.60	22.71	1.91	31.84	100	217	QP
2	46.74	35.62	-4.38	40.00	50.00	15.61	1.85	31.84	100	79	QP
3	52.41	36.27	-3.73	40.00	52.71	13.27	2.13	31.84	100	61	QP
4	226.56	41.14	-4.86	46.00	54.95	15.86	2.09	31.76			Peak
5	337.10	31.34	-14.66	46.00	40.90	19.95	2.25	31.76			Peak
6	479.90	39.20	-6.80	46.00	44.51	23.73	2.86	31.90			Peak
7	722.10	32.08	-13.92	46.00	33.05	27.68	3.43	32.08			Peak
8	1810.00	46.93	-27.07	74.00	76.07	25.92	5.90	60.96			Peak
9	3040.00	42.09	-31.91	74.00	66.57	28.89	7.94	61.31			Peak
10	6980.00	44.57	-29.43	74.00	54.79	36.26	12.73	59.21			Peak
11	7340.00	45.14	-28.86	74.00	53.87	37.27	13.13	59.13			Peak
12	10942.00	47.16	-26.84	74.00	48.41	39.68	16.21	57.14			Peak
13	11448.00	48.93	-25.07	74.00	48.45	40.34	16.70	56.56	100	107	Peak

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31

Page Number : 19 of 21 Report Issued Date: Sep. 28, 2017 Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 08, 2017 ~ Sep. 09, 2017	N/A	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Sep. 08, 2017 ~ Sep. 09, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Sep. 08, 2017 ~ Sep. 09, 2017	Dec. 05, 2017	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	Sep. 08, 2017 ~ Sep. 09, 2017	Dec. 28, 2017	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C&N- 6-06	2725&AT-N060 1	30MHz~1GHz	Oct. 15, 2016	Sep. 14, 2017 ~ Sep. 15, 2017	Oct. 14, 2017	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	Sep. 14, 2017 ~ Sep. 15, 2017	Dec. 28, 2017	Radiation (03CH06-HY)
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 25, 2017	Sep. 14, 2017 ~ Sep. 15, 2017	Apr. 24, 2018	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	May 22, 2017	Sep. 14, 2017 ~ Sep. 15, 2017	May 21, 2018	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Sep. 14, 2017 ~ Sep. 15, 2017	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Sep. 14, 2017 ~ Sep. 15, 2017	N/A	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 17, 2017	Sep. 14, 2017 ~ Sep. 15, 2017	Mar. 16, 2018	Radiation (03CH06-HY)

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 20 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.7
of 95% (U = 2Uc(y))	2.1

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

Measuring Uncertainty for a Level of Confidence	2.0
of 95% (U = 2Uc(y))	3.9

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

Measuring Uncertainty for a Level of Confidence	4.7
of 95% (U = 2Uc(y))	4. 7

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: ZL5S31 Page Number : 21 of 21
Report Issued Date : Sep. 28, 2017
Report Version : Rev. 01

Report No. : FC770420-02