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No.: DM121461

Applicant: Winspeed Co., Ltd.

14F-1, No.2, Jian-ba Rd., Chung-ho District, New Taipei

City, Taiwan

Manufacturer: Shenzhenshi LXD Science Co., Ltd.

No. 619-621, 6th Floor, H Building, Huachuangda Central Building Xinan Street, Baoan District, Shenzhen City, China

Description of Sample(s): Submitted sample(s) said to be

Product: Fortus Gaming Mouse-Wireless

Brand Name: SPEEDLINK
Model Number: SL-680100-BK-01
FCC ID: 2AEDNA27

Date Sample(s) Received: 2015-10-26

Date Tested: 2015-10-31 to 2015-11-02

Investigation Requested: Perform ElectroMagnetic Interference measurement in

accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2015 and ANSI C63.10: 2013 for FCC Certification.

Conclusion(s): The submitted product <u>COMPLIED</u> with the requirements of

Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this

Test Report.

Remark(s): ---



ElectroMagnetic Compatibility Department For and on behalf of STC (Dongguan) Company Limited



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1.0 General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: Fortus Gaming Mouse-Wireless
Manufacturer: Shenzhenshi LXD Science Co., Ltd.

No. 619-621, 6th Floor, H Building, Huachuangda Central Building Xinan Street, Baoan District, Shenzhen City, China

Brand Name: SPEEDLINK
Model Number: SL-680100-BK-01

Rating: 5Vd.c. (Power by USB port)

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a Fortus Gaming Mouse-Wireless of Winspeed Co., Ltd.. The transceiver operating in the 2.4GHz ISM frequency band. The RF signal is modulated by IC, the type of modulation used is FSK.

1.3 Date of Order

2015-10-26

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2015-10-31 to 2015-11-04

1.6 Country of Origin

China



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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2015 Regulations and ANSI C63.10: 2013 for FCC Certification.

The device was realized by test software.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary									
Test Condition	Test Requirement	Test Method	Class /	Te	est Resu	ılt			
			Severity	Pass	Fail	N/A			
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10: 2013	N/A						
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	\boxtimes					

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Test Requirement: FCC 47CFR 15.249 & FCC 47CFR 15.209

Test Method: ANSI C63.10: 2013

Test Date: 2015-11-02 Mode of Operation: TX mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, each emission was maximized by: having the EUT continuously working, investigated all operating modes, considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

Semi-anechoic chamber located on the STC (Dongguan) Company Ltd. 68 Fumin Nan Road, Dalang, Dongguan, Guangdong, PRC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.



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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av) RBW: 10kHz

VBW: 30kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

30MHz – 1GHz (QP) RBW: 120kHz

VBW: 120kHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

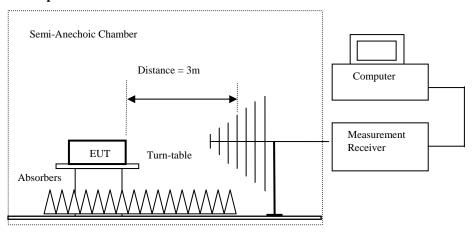
Above 1GHz (Pk & Av) RBW: 1MHz

VBW: 1MHz Sweep: Auto

Span: Fully capture the emissions being measured

Trace: Max. hold

Test Setup:



- Ground Plane
- Absorbers placed on top of the ground plane are for measurements above $1000 \mathrm{MHz}$ only.
- Measurements between 30 MHz to 1000 MHz made with Bi-log antennas, above 1000 MHz horn antennas are used, 9 kHz to 30 MHz loop antennas are used.



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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental	Field Strength of Fundamental Emission	Field Strength of Harmonics Emission
[MHz]	[microvolts/meter]	[microvolts/meter]
902-928	50,000 [Quasi-Peak]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Lowest Frequency Channel-2402 MHz): Pass

Field Strength of Fundamental Emissions									
	Peak Value								
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
2402.00	45.2	36.8	82.0	12,589.3	500,000	Vertical			
2402.00	45.0	36.4	81.4	11,749.0	500,000	Horizontal			

Field Strength of Fundamental Emissions										
	Average Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
2402.00	41.3	36.8	78.1	8,035.3	50,000	Vertical				
2402.00	41.3	36.4	77.7	7,673.6	50,000	Horizontal				

Field Strength of Harmonics Emission									
			Peak Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
4804.0	3.5	41.5	45.0	177.8	5,000	Vertical			
4804.0	2.7	42.4	45.1	179.9	5,000	Horizontal			
7206.0	2.9	45.1	48.0	251.2	5,000	Vertical			
7206.0	1.9	46.2	48.1	254.1	5,000	Horizontal			
9608.0	2.6	48.0	50.6	338.8	5,000	Vertical			
9608.0	1.6	48.8	50.4	331.1	5,000	Horizontal			



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Field Strength of Harmonics Emission										
Frequency	Measured	Correction	Average Valu Field	e Field	Limit @3m	E-Field				
Trequency	Level @3m	Factor	Strength	Strength	Limit @ 3m	Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m	1 014110)				
4804.0	-8.3	41.5	33.2	45.7	500	Vertical				
4804.0	-9.6	42.4	32.8	43.7	500	Horizontal				
7206.0	-10.6	45.1	34.5	53.1	500	Vertical				
7206.0	-10.0	46.2	36.2	64.6	500	Horizontal				
9608.0	-9.3	48.0	38.7	86.1	500	Vertical				
9608.0	-11.4	48.8	37.4	74.1	500	Horizontal				

Results of Tx mode (Middle Frequency Channel- 2441MHz): Pass

Results of 1X	Results of 1x mode (Middle Frequency Channel- 2441MHz): Pass									
Field Strength of Fundamental Emissions										
	Peak Value									
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field									
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
2441.00	2441.00 45.0 36.8 81.8 12,302.7 500,000 Vertical									
2441.00	45.0	36.4	81.4	11,749.0	500,000	Horizontal				

Field Strength of Fundamental Emissions Average Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
2441.00	40.8	36.8	77.6	7,585.8	50,000	Vertical			
2441.00	40.9	36.4	77.3	7,328.2	50,000	Horizontal			

	Field Strength of Harmonics Emission									
	Peak Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field				
	Level @3m	Factor	Strength	Strength		Polarity				
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
4882.0	3.4	41.6	45.0	177.8	5,000	Vertical				
4882.0	2.7	42.5	45.2	182.0	5,000	Horizontal				
7323.0	2.5	45.2	47.7	242.7	5,000	Vertical				
7323.0	1.9	46.3	48.2	257.0	5,000	Horizontal				
9764.0	3.6	48.1	51.7	384.6	5,000	Vertical				
9764.0	1.3	48.9	50.2	323.6	5,000	Horizontal				



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Field Strength of Harmonics Emission Avarage Value									
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
4882.0	-7.7	41.6	33.9	49.5	500	Vertical			
4882.0	10.3	42.5	52.8	436.5	500	Horizontal			
7323.0	-10.8	45.2	34.4	52.5	500	Vertical			
7323.0	-11.7	46.3	34.6	53.7	500	Horizontal			
9764.0	-10.1	48.1	38.0	79.4	500	Vertical			
9764.0	-12.0	48.9	36.9	70.0	500	Horizontal			

Results of Tx mode (Highest Frequency Channel – 2480MHz): Pass

	Results of 1x mode (frightest Frequency Chamber – 2400/1112). 1 ass									
	Field Strength of Fundamental Emissions									
	Peak Value									
Frequency	Frequency Measured Correction Field Field Limit @3m E-Field									
	Level @3m Factor Strength Strength Polarity									
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m					
2480.00	2480.00 45.6 36.8 82.4 13,182.6 500,000 Vertical									
2480.00	44.6	36.4	81.0	11,220.2	500,000	Horizontal				

Field Strength of Fundamental Emissions						
		A	Average Valu	e		
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m	
2480.00	41.4	36.8	78.2	8,128.3	50,000	Vertical
2480.00	40.9	36.4	77.3	7,328.2	50,000	Horizontal



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	Field Strength of Harmonics Emission						
			Peak Value				
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m		
4960.0	4.0	41.4	45.4	186.2	5,000	Vertical	
4960.0	2.1	42.7	44.8	173.8	5,000	Horizontal	
7440.0	2.2	45.6	47.8	245.5	5,000	Vertical	
7440.0	1.4	46.5	47.9	248.3	5,000	Horizontal	
9920.0	1.9	48.6	50.5	335.0	5,000	Vertical	
9920.0	1.5	49.7	51.2	363.1	5,000	Horizontal	

	Field Strength of Harmonics Emission Avarage Value						
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m	-	
4960.0	-8.5	41.4	32.9	44.2	500	Vertical	
4960.0	-9.9	42.7	32.8	43.7	500	Horizontal	
7440.0	-10.8	45.6	34.8	55.0	500	Vertical	
7440.0	-11.0	46.5	35.5	59.6	500	Horizontal	
9920.0	-10.8	48.6	37.8	77.6	500	Vertical	
9920.0	-12.2	49.7	37.5	75.0	500	Horizontal	

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Calculated measurement uncertainty (9kHz - 30MHz): 3.3dB

(30MHz – 1GHz): 4.6dB (1GHz - 26GHz): 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

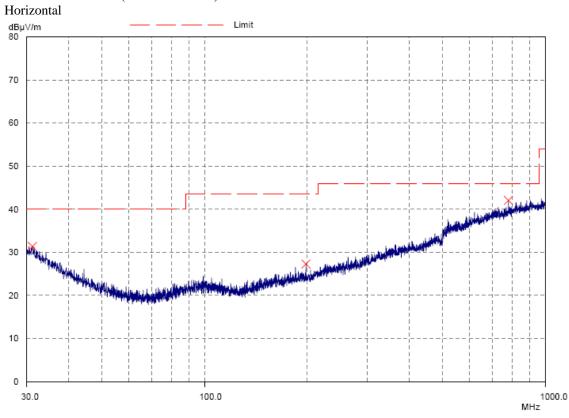
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of TX mode (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Results of TX mode (30MHz - 1GHz): PASS





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Results of TX mode (30MHz - 1GHz): PASS

	Radiated Emissions Quasi-Peak						
Emission	E-Field	Level	Limit	Level	Limit		
Frequency	Polarity	@3m	@3m	@3m	@3m		
MHz		dBμV/m	dBμV/m	μV/m	μV/m		
31.3	Horizontal	31.4	40.0	37.2	100		
198.5	Horizontal	27.3	43.5	23.2	150		
780.5	Horizontal	41.0	46.0	112.2	200		



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

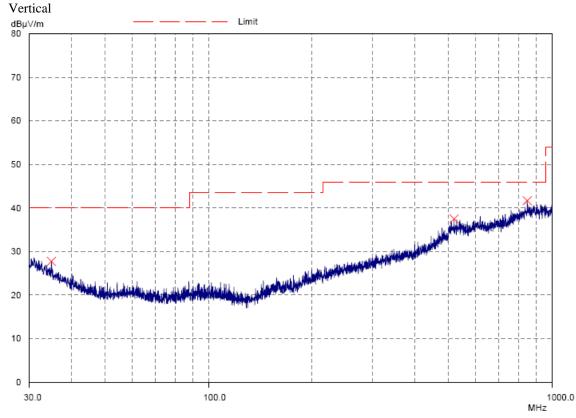
Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of TX mode (9kHz - 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Results of TX mode (30MHz - 1GHz): PASS





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Results of TX mode (30MHz - 1GHz): PASS

	Radiated Emissions Quasi-Peak						
Emission	E-Field	Level	Limit	Level	Limit		
Frequency	Polarity	@3m	@3m	@3m	@3m		
MHz		dBμV/m	dBμV/m	μV/m	μV/m		
34.9	Vertical	27.7	40.0	24.3	100		
519.6	Vertical	37.5	46.0	75.0	200		
847.9	Vertical	40.0	46.0	100.0	200		

Remarks:

Calculated measurement uncertainty (9kHz - 30MHz): 3.3dB

(30MHz – 1GHz): 4.6dB (1GHz - 26GHz): 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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RF Radiated Emissions Measurement:

Limit:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Result: RF Radiated Emissions(1GHz-26GHz)(worse data) (Lowest)

	Field Strength of Band-edge Compliance						
	Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m		
2390.0	5.3	36.8	42.1	74.0	31.9	Vertical	
2400.0	3.9	36.8	40.7	74.0	33.3	Vertical	

Field Strength of Band-edge Compliance						
		A	verage Valu	e		
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	$dB\mu V/m$	
2390.0	-6.4	36.8	30.4	54.0	23.6	Vertical
2400.0	-4.5	36.8	32.3	54.0	21.7	Vertical

Result: RF Radiated Emissions(1GHz-26GHz)(worse data) (Highest)

Field Strength of Band-edge Compliance						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m	
2483.5	5.3	36.4	41.7	74.0	32.3	Horizontal

	Field Strength of Band-edge Compliance						
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m		
2483.5	-5.5	36.4	30.9	54.0	23.1	Horizontal	



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3.1.2 Antenna Requirement

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is Meander line antenna. There is no external antenna, the antenna gain = -2.1dBi. User is unable to remove or changed the Antenna.



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3.2 20dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249 Test Method: ANSI C63.10: 2013

Test Date: 2015-10-31 Mode of Operation: Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

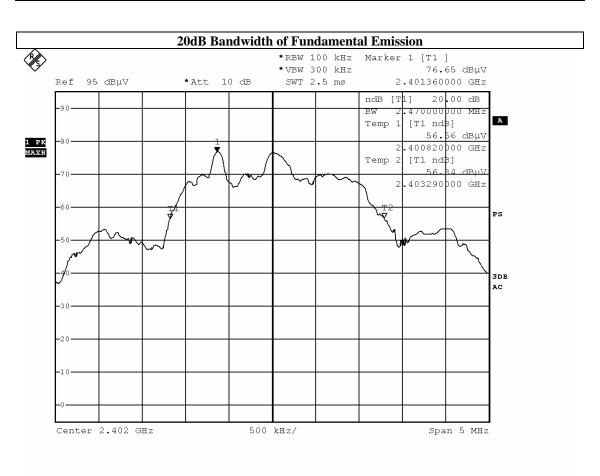


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Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2402	2.47



BMP

Date: 31.0CT.2015 15:37:27

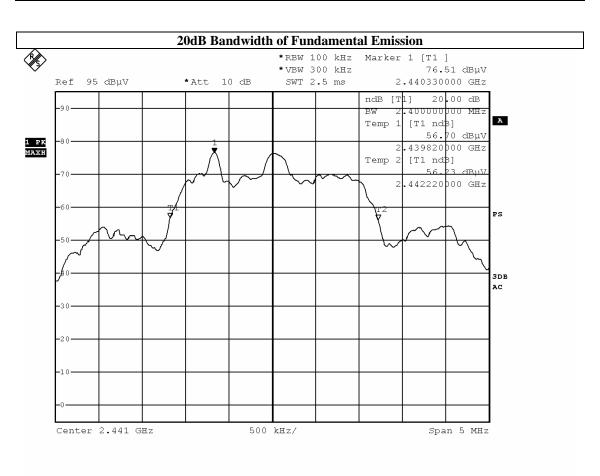


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Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2441	2.40



BMP

Date: 31.0CT.2015 15:44:49

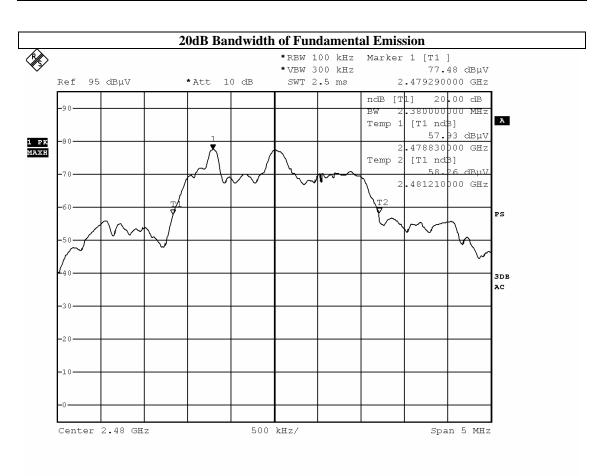


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Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

Frequency Range	20dB Bandwidth
[MHz]	[MHz]
2480	2.38



BMP

Date: 31.0CT.2015 15:29:07



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Appendix A

List of Measurement Equipment

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EMD004	LISN	ROHDE & SCHWARZ	ESH3-Z5	100102	2016.3.29	2017.3.29
EMD022	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100314	2016.3.29	2017.3.29
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2016.3.29	2017.3.29
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB 26	100388	2016.3.29	2017.3.29
EMD041	TWO-LINE V- NETWORK	ROHDE & SCHWARZ	ENV216	100261	2016.3.29	2017.3.29
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2014.11.29	2016.11.29
EMD062	Double-Ridged Waveguide (1GHz – 18GHz)	ETS.LINDGREN	3117	00075933	2014.11.15	2016.11.15
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A	N/A
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	N/A	N/A
EMD111	Power meter	ROHDE & SCHWARZ	NRVD	102051	2016.3.29	2017.3.29
	100V Insertion Unit	ROHDE & SCHWARZ	URV5-Z4	100464	2016.3.29	2017.3.29
EMD113	Pre-Amplifier	ROHDE & SCHWARZ	N/A	1129588	2016.3.29	2017.3.29
EMD124	Loop Antenna	ETS-Lindgren	6502	00104905	2015.04.28	2017.04.28
EMD131	Standard Gain Horn Antenna (18GHz – 26.5GHz)	Chengdu AINFO Inc.	JXTXLB-42- 15-C-KF	J2021100721001	2015.04.09	2017.04.09
RE01	RF cable	N/A	N/A	N/A	2014-9-28	2016-9-27
RE02	RF cable	N/A	N/A	N/A	2014-9-28	2016-9-27

Remarks:-

N/A Not Applicable or Not Available

Appendix B

Ancillary Equipment

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	DELL NOTEBOOK COMPUTER	LATITUDE E5430	N/A	CONNECTED TO THE EUT HDMI PORT AND MIN USB PORT



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Appendix C

Photographs of EUT

Front View of the product





Inner Circuit Top View



Inner Circuit Bottom View

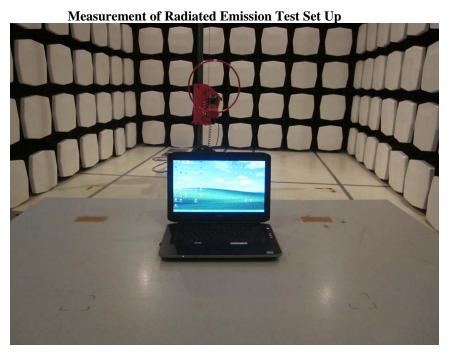


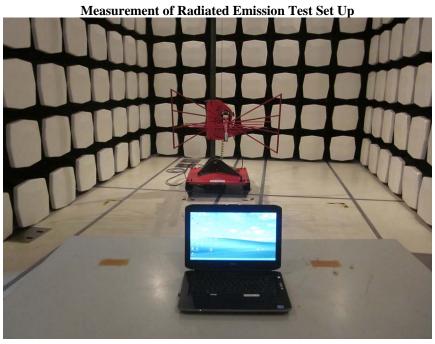


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Photographs of EUT





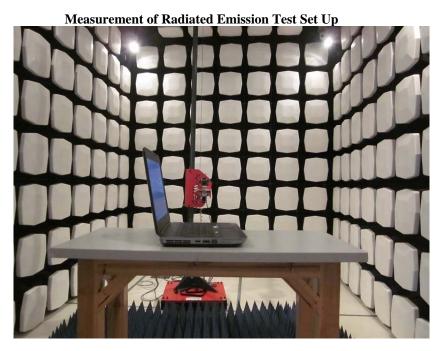
STC (Dongguan) Company Limited



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Photographs of EUT



***** End of Test Report *****