FCC Test Report

APPLICANT : Lenovo(Shanghai) Electronics Technology Co., Ltd.

EQUIPMENT: Portable Tablet Computer

BRAND NAME : Lenovo

MODEL NAME : Lenovo YT-K606F

FCC ID : O57YTK606F

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jan. 14, 2021 and testing was completed on Mar. 02, 2021.

We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

FAX: +86-512-57900958 FCC ID: O57YTK606F Page Number : 1 of 20
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Report Version : Rev. 01

Cert #5145.02

Report Template No.: BU5-FC15B Version 3.0

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC111401	Rev. 01	Initial issue of report	Mar. 26, 2021

Sporton International (Kunshan) Inc.

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark	
			< 15.107 limits	PASS	Under limit	
3.1	15.107	AC Conducted Emission			5.43 dB at	
					0.163 MHz	
	15.109					Under limit
2.0		Dadiated Emission	< 15.109 limits	PASS	4.52 dB at	
3.2		15.109 Radiated Emission			849.650 MHz	
						for Quasi-Peak

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

Lenovo(Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Report No.: FC111401

1.2. Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R.China

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo YT-K606F
FCC ID	O57YTK606F
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11 ax HE20/ HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/ HE40/ HE80 Bluetooth BR / EDR / LE
HW Version	Lenovo YT-K606F
SW Version	YT-K606F_RF01_210125
EUT Stage	Identical Prototype

Remark:

- The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are three samples under test, the difference is memory/flash. According to the difference, sample 1 perform full test and sample 2/3 verify the worst case.

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1.4. Product Specification of Equipment Under Test

Standa	ards-related Product Specification
	802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz;
Tx Frequency	5250 MHz ~ 5350 MHz;
, and to quotient	5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz
	Bluetooth: 2400 MHz ~ 2483.5 MHz
	802.11b/g/n: 2400 MHz ~ 2483.5 MHz
	802.11a/n/ac: 5150 MHz ~ 5250 MHz;
Rx Frequency	5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz
	5725 MHz ~ 5850 MHz
	Bluetooth: 2400 MHz ~ 2483.5 MHz
Antenna Type	WLAN: LDS Antenna
Antenna Type	Bluetooth : LDS Antenna
	802.11b: DSSS (DBPSK / DQPSK / CCK)
	802.11a/g/n/ac/ax : OFDM (BPSK / QPSK / 16QAM / 64QAM /
	256QAM / 1024QAM)
Type of Modulation	Bluetooth LE : GFSK
	Bluetooth (1Mbps) : GFSK
	Bluetooth (2Mbps) :π/4-DQPSK
	Bluetooth (3Mbps) : 8-DPSK

1.5. Modification of EUT

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

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1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Test Firm	Sporton International (Kunshan) Inc.					
	No. 1098, Pengxi North F	Road, Kunshan Economic	Development Zone			
Test Site Location	Jiangsu Province 215300 People's Republic of China					
rest Site Location	TEL: +86-512-57900158					
	FAX: +86-512-57900958					
	0 1 0'1 N	500 D	FCC Test Firm			
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.			
	CO01-KS 03CH02-KS	CN1257	314309			

1.7. Test Software

Item Site		Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8. 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 B
- ANSI C63.4-2014

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

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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: Bluetooth Idle + WLAN (2.4G) Idle + Camera + HDMI With NB(load) + Battery + USB Cable (Charging from Adapter 1) for Sample 1
	Mode 2: Bluetooth Idle + WLAN (5G) Idle + Camera + HDMI With NB(load) + Battery + USB Cable (Charging from Adapter 2) for Sample 1
	Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + HDMI With NB(load) + Battery + USB Cable (Charging from Adapter 2) for Sample 1
AC Conducted Emission	Mode 4: Bluetooth Idle + WLAN (5G) Idle + HDMI With NB(load) + Battery + USB Cable (Data Link with Notebook) for Sample 1
	Mode 5: Bluetooth Idle + WLAN (5G) Idle + HDMI Paly in With NB + Battery + USB Cable (Charging from Adapter 2) for Sample 1
	Mode 6: Bluetooth Idle + WLAN (2.4G) Idle + HDMI With NB(load) + Battery + USB Cable (Data Link with Notebook) for Sample 2
	Mode 7: Bluetooth Idle + WLAN (2.4G) Idle + HDMI With NB(load) + Battery + USB Cable (Data Link with Notebook) for Sample 3
	Mode 1: Bluetooth Idle + WLAN (2.4G) Idle + Camera + HDMI With NB(load) + Battery + USB Cable (Charging from Adapter 1) for Sample 1
	Mode 2: Bluetooth Idle + WLAN (5G) Idle + Camera + HDMI With NB(load) + Battery + USB Cable (Charging from Adapter 2) for Sample 1
	Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + HDMI With NB(load) + Battery + Earphone for Sample 1
Radiated Emissions	Mode 4: Bluetooth Idle + WLAN (5G) Idle + HDMI With NB(load) + Battery + USB Cable (Data Link with Notebook) for Sample 1
	Mode 5: Bluetooth Idle + WLAN (2.4G) Idle + HDMI Paly in With NB + Battery + USB Cable (Charging from Adapter 1) for Sample 1
	Mode 6: Bluetooth Idle + WLAN (5G) Idle + HDMI With NB(load) + Battery + USB Cable (Data Link with Notebook) for Sample 2
	Mode 7: Bluetooth Idle + WLAN (2.4G) Idle + HDMI With NB(load) + Battery + USB Cable (Data Link with Notebook) for Sample 3

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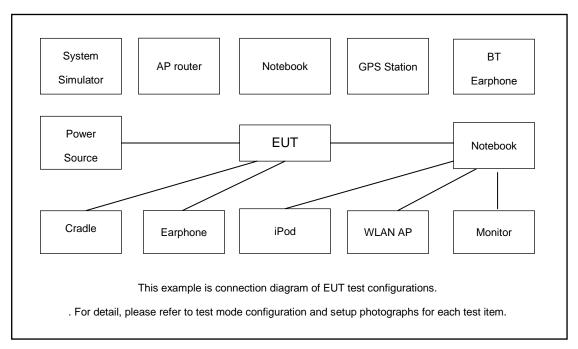
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Remark:

- 1. The worst case of AC is mode 2; only the test data of this mode is reported.
- 2. The worst case of RE is mode 1; only the test data of this mode is reported.
- Data Link with Notebook means data application transferred mode between EUT and Notebook.
- 4. HDMI Cable means media application transferred between EUT and external display.
- **5.** The EUT and the Earphone need to be transmitted though Type-C to 3.5mm Headphone Jack.

2.2.Connection Diagram of Test System



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

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2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8820C	N/A	N/A	N/A
2.	Base Station	Anritus	MT8000A	N/A	N/A	N/A
3.	Signal Generator	R&S	SMBV100A	N/A	N/A	N/A
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	WLAN AP	D-link	DIR-618	N/A	N/A	Unshielded,1.8m
6.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	N/A
7.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
8.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
9.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
10.	Notebook	k Lenovo G480 QDS-BRCM1050I N/A		AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m		
11.	SD Card	Kingston	8GB	N/A	N/A	N/A
12.	Hard disk	KINGSHARE	KSP6120G	Fcc DoC	Shielded, 1.2m	N/A
13.	Hard DISK*2	WD	C6B	N/A	N/A	N/A
14.	Earphone	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Turn on MPEG4 function.
- 3. Turn on camera to capture images.

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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.

<Class B Limit>

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.

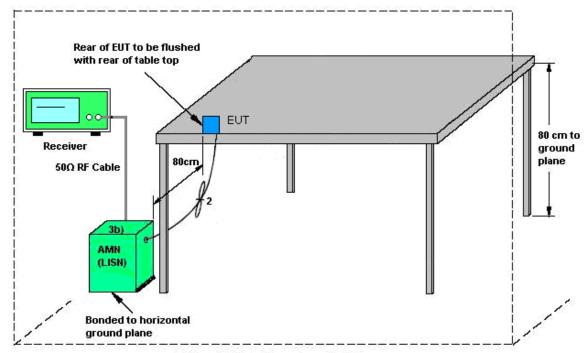
3.1.2 Measuring Instruments

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.

3.1.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

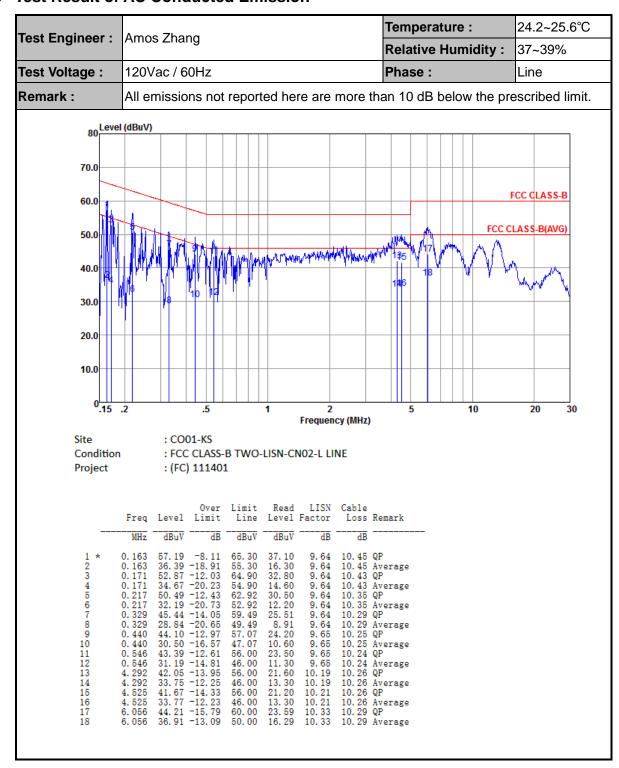
ISN = Impedance stabilization network

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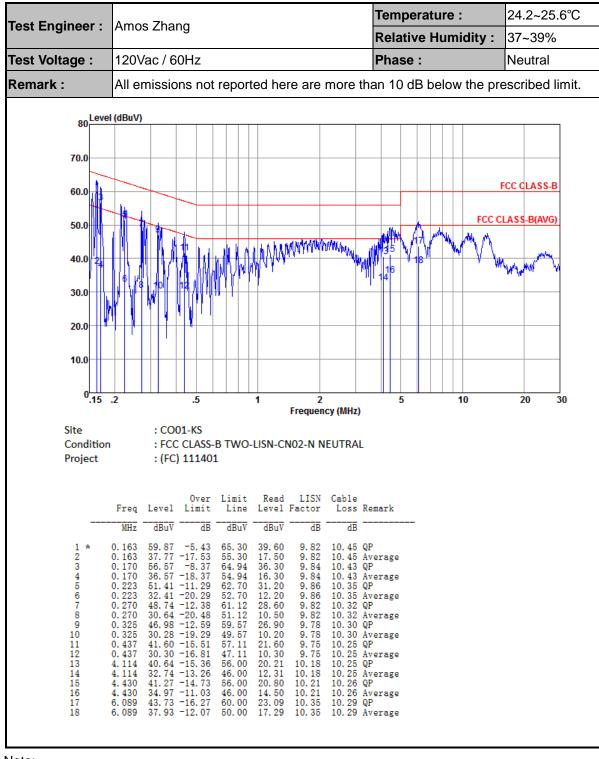
3.1.5 Test Result of AC Conducted Emission



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Note:

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

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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:

<Class B Limit>

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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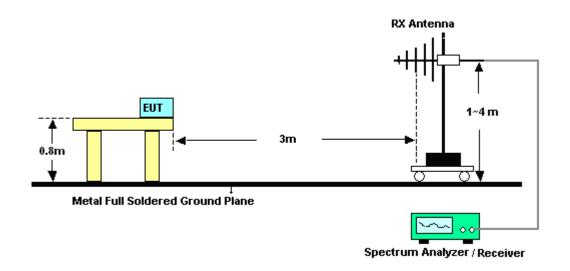
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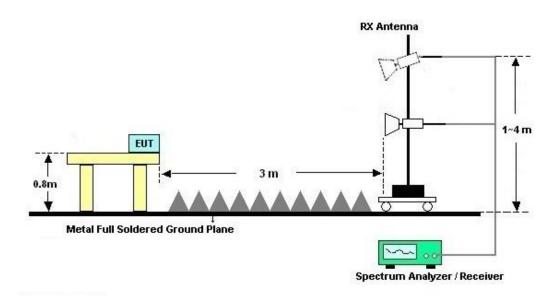
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

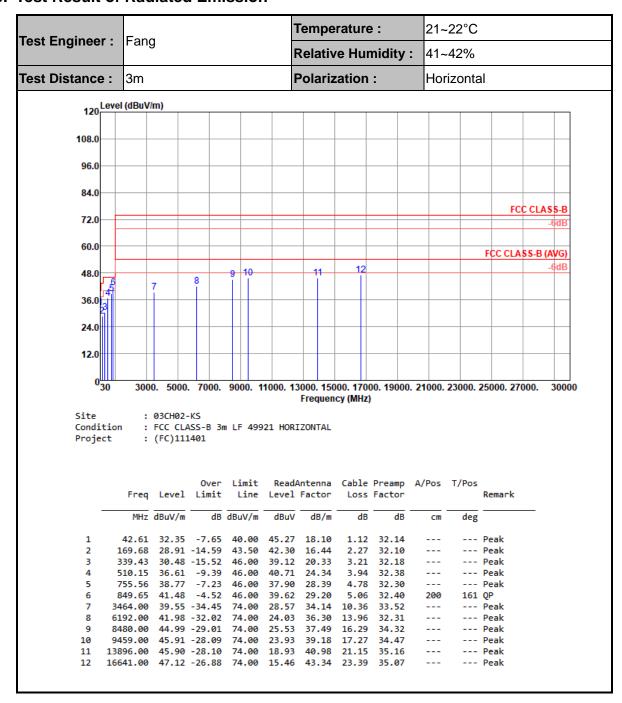


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3.2.5. Test Result of Radiated Emission



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21~22°C Temperature: Test Engineer: Fang **Relative Humidity:** 41~42% Test Distance: Polarization: Vertical 3m 120 Level (dBuV/m) 108.0 96.0 FCC CLASS-B 72.0 60.0 48.0 36.0 24.0 0<mark>11</mark> 3000. 5000. 7000. 9000. 11000. 13000. 15000. 17000. 19000. 21000. 23000. 25000. 27000. Frequency (MHz) Site : 03CH02-KS Condition : FCC CLASS-B 3m LF 49921 VERTICAL : (FC)111401 Project Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB deg cm 45.52 26.90 -13.10 40.00 41.25 16.68 1.17 32.20 100 217 QP 28.43 -11.57 40.00 45.38 52.31 14.00 1.25 32.20 100 335 QP 43.50 167.74 22.84 -20.66 36.16 16.52 2.26 32.10 --- Peak 510.15 34.28 -11.72 46.00 --- Peak 38.38 24.34 3.94 32.38 679.90 35.57 -10.43 46.00 4.53 --- Peak 36.58 26.66 32.20

Note:

10 11

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

30.06

23.93

24.79

23.47

19.14

15.34

74.00

29.20

36.70

37.38

39.50

41.01

43.29

34.20 10.40

5.06

14.47

16.11

18.75

21.31

23.29

32.40

33.49

32.74

34.54

35.20

35.12

35.11

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

849.65 42.95 -3.05 46.00 41.09

3504.00 41.17 -32.83 74.00

6736.00 42.36 -31.64 74.00

8184.00 43.74 -30.26 74.00

11016.00 46.52 -27.48 74.00

16461.00 46.81 -27.19 74.00

14085.00 46.34 -27.66

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 14, 2020	Mar. 01, 2021	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2020	Mar. 01, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Mar. 01, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Mar. 01, 2021	Oct. 16, 2021	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 17, 2020	Feb. 06, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 17, 2020	Feb. 06, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 26, 2021	Feb. 06, 2021	Jan. 25, 2022	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 01, 2020	Feb. 06, 2021	Oct. 31, 2021	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 06, 2020	Feb. 06, 2021	Nov. 05, 2021	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Feb. 06, 2021	Jan. 05, 2022	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Feb. 06, 2021	Jan. 05, 2022	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 17, 2020	Feb. 06, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Feb. 06, 2021	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Feb. 06, 2021	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Feb. 06, 2021	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.94dB
of 95% (U = 2Uc(y))	2.94ub

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

Measuring Uncertainty for a Level of Confidence	4.9dB
of 95% (U = 2Uc(y))	4.905

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

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.VGB

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

Measuring Uncertainty for a Level of Confidence	
incusuring discritantly for a Level of definaction	5.1dB
of 95% (U = 2Uc(y))	3.1ub
01.93% (0 = 200(y))	

Sporton International (Kunshan) Inc. TEL: +86-512-57900158

FAX: +86-512-57900958 FCC ID: O57YTK606F Page Number : 20 of 20
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