FCC Test Report

APPLICANT : Planet Avvio LLC

EQUIPMENT : router
BRAND NAME : Avvio
MODEL NAME : RT400

FCC ID : 2ALTART400X

STANDARD : FCC CFR Title 47 Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on May 25, 2018 and testing was completed on May 30, 2018. We, Sporton International (Shenzhen) 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.



Sporton International (Shenzhen) Inc.

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

Sporton International (Shenzhen) Inc.

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Report No. : FC852504

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC852504	Rev. 01	Initial issue of report	Jun. 11, 2018

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	11.12 dB at
					0.34 MHz
					Under limit
3.2	15.109 Radiated Emission	Radiated Emission	< 15.109 limits	PASS	8.04 dB at
					56.19 MHz for peak

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1. General Description

1.1. Applicant

Planet Avvio LLC

9725 NW 117th Ave., Medley, FL 33178, United States

1.2. Manufacturer

MeiG Smart Technology Co., Ltd

#5 Lingxia Road, Fenghuang the 4th Industrial Park, Fuyong Street, Bao'an District, Shenzhen

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	router
Brand Name	Avvio
Model Name	RT400
FCC ID	2ALTART400X
	GSM/GPRS/EGPRS/WCDMA/HSPA/
	HSPA+(16QAM uplink is not supported)/LTE
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40
	WLAN 5GHz 802.11a/n HT20/HT40
	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80
IMEI Code	Conduction: NA
I IWEI Code	Radiation: NA
HW Version	SLT768_V1.03_PCB
SW Version	SLT768-TAQ_1.0.5_EQ103
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.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification					
Ctandards	GSM850: 824.2 MHz ~ 848.8 MHz				
	GSM1900: 1850.2 MHz ~ 1909.8MHz				
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz				
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
T. F	LTE Band 4: 1710.7 MHz ~ 1754.3 MHz				
Tx Frequency	LTE Band 12 : 699.7 MHz ~ 715.3 MHz				
	LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	802.11a/n/ac: 5180 MHz ~ 5240 MHz;				
	5745 MHz ~ 5825 MHz				
	GSM850: 869.2 MHz ~ 893.8 MHz				
	GSM1900: 1930.2 MHz ~ 1989.8 MHz				
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz				
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz				
Rx Frequency	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz				
TX Trequency	LTE Band 12 : 729.7 MHz ~ 745.3 MHz				
	LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	802.11a/n/ac: 5180 MHz ~ 5240 MHz;				
	5745 MHz ~ 5825 MHz				
Antenna Type	WWAN : External PCB Antenna				
	WLAN : External PCB Antenna				
	GSM/GPRS: GMSK				
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK				
	WCDMA: BPSK (Uplink)				
	HSDPA: QPSK (Uplink)				
	HSUPA: QPSK (Uplink)				
Type of Modulation	HSPA+ : 16QAM (Uplink is not supported)				
	DC-HSDPA: 64QAM				
	LTE: QPSK / 16QAM				
	802.11b: DSSS (DBPSK / DQPSK / CCK)				
	802.11a/g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)				

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 Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China				
rest Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Took Site No	Sporton Site No.	FCC Test Firm Registration No.			
Test Site No.	CO01-SZ	251365			

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

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7. Applicable Standards

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

- FCC CFR Title 47 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: GSM850 Idle + Adapter + LAN Link + WAN Link + WLAN Idle(2.4G) + Telephone Link
AC Conducted Emission	Mode 2: WCDMA Band II Idle+ Adapter + LAN Link + WAN Link + WLAN Idle(5G) + Telephone Link
	Mode 3: LTE Band 4 Idle + Adapter + LAN Link + WAN Link + WLAN Idle(2.4G) + Telephone Link
	Mode 1: GSM850 Idle + Adapter + LAN Link + WAN Link + WLAN Idle(2.4G) + Telephone Link
Radiated Emissions	Mode 2: WCDMA Band II Idle+ Adapter + LAN Link + WAN Link + WLAN Idle(5G) + Telephone Link
	Mode 3: LTE Band 4 Idle + Adapter + LAN Link + WAN Link + WLAN Idle(2.4G) + Telephone Link

Remark:

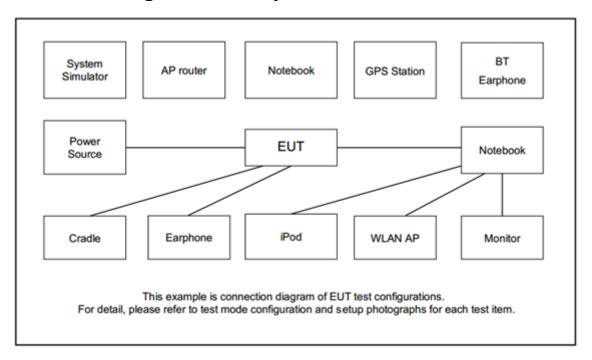
- 1. The worst case of AC is mode 3; only the test data of this mode is reported.
- 2. The worst case of RE is mode 1; only the test data of this mode is reported.

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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	SMB100A	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8 m
5.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Telephone phone	bossini	HCD133TSD	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m

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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.

- 1. EUT links with Notebook and execute ping.
- 2. EUT links with Telephone via RJ11 Cable
- 3. EUT links with Notebook via WLAN AP and execute WAN Link.

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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.

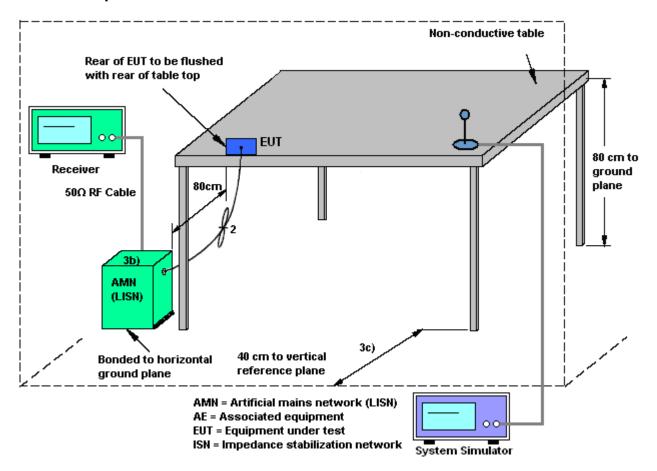
3.1.3 Test Procedure

- 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.

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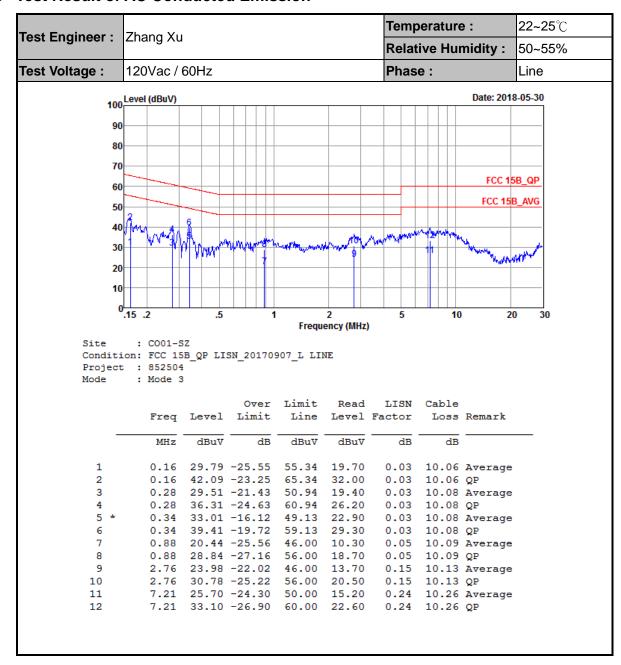
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3.1.4 Test Setup



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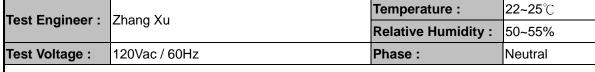
3.1.5 Test Result of AC Conducted Emission

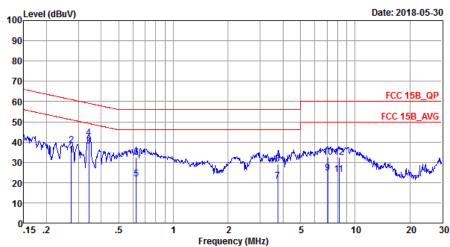


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: CO01-SZ

Condition: FCC 15B_QP LISN_20170907_N NEUTRAL

Project : 852504 : Mode 3 Mode

	Free	Level	Over	Limit Line	Read	LISN Factor	Cable	Remark
	rreq	пелет	птитс	птие	пелет	ractor	поза	Kemark
	MHz	dBu∀	dB	dBu∀	dBu₹	dB	dB	
1	0.27	33.71	-17.27	50.98	23.60	0.03	10.08	Average
2	0.27	38.41	-22.57	60.98	28.30	0.03	10.08	QP
3 *	0.34	38.01	-11.12	49.13	27.90	0.03	10.08	Average
4	0.34	41.91	-17.22	59.13	31.80	0.03	10.08	QP
5	0.62	21.90	-24.10	46.00	11.80	0.02	10.08	Average
6	0.62	32.50	-23.50	56.00	22.40	0.02	10.08	QP
7	3.76	20.61	-25.39	46.00	10.40	0.05	10.16	Average
8	3.76	29.11	-26.89	56.00	18.90	0.05	10.16	QP
9	7.06	24.72	-25.28	50.00	14.40	0.07	10.25	Average
10	7.06	32.32	-27.68	60.00	22.00	0.07	10.25	QP
11	8.15	23.89	-26.11	50.00	13.50	0.11	10.28	Average
12	8.15	32.49	-27.51	60.00	22.10	0.11	10.28	QP

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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.

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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 $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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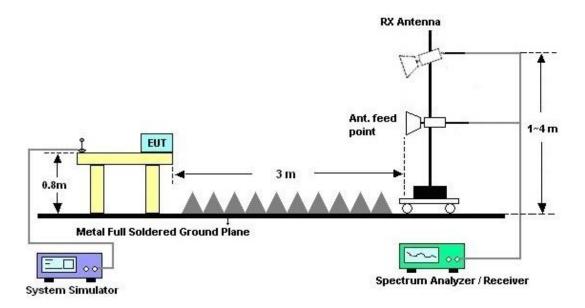
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



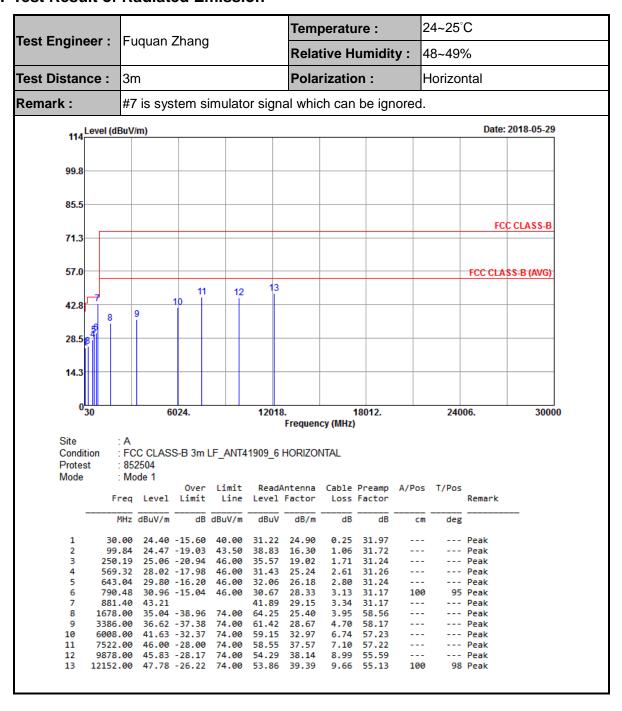
For radiated emissions above 1GHz



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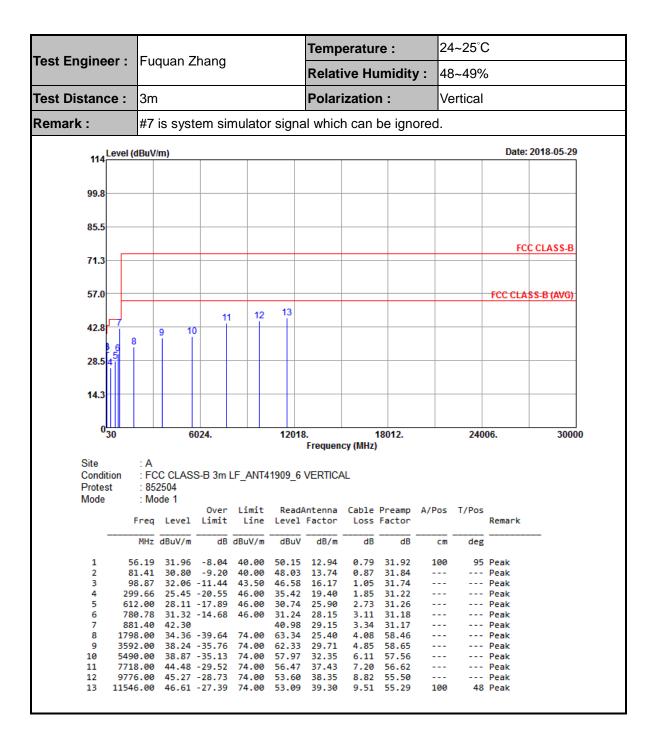
3.2.5. Test Result of Radiated Emission



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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 19, 2018	May 29, 2018	Apr. 18, 2019	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 19, 2018	May 29, 2018	Apr. 18, 2019	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Apr. 19, 2018	May 29, 2018	Apr. 18, 2019	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-1355	1GHz~18GHz	Jul. 09, 2017	May 29, 2018	Jul. 08, 2018	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Jun. 16, 2017	May 29, 2018	Jun. 15, 2018	Radiation (03CH03-SZ)
LF Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct.19, 2017	May 29, 2018	Oct. 18, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 19, 2017	May 29, 2018	Oct. 18, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 18, 2017	May 29, 2018	Jul. 17, 2018	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	May 29, 2018	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 29, 2018	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 29, 2018	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 26, 2017	May 30, 2018	Dec. 25, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Dec. 26, 2017	May 30, 2018	Dec. 25, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103892	9kHz~30MHz	Nov. 01, 2017	May 30, 2018	Oct. 31, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Jul. 19, 2017	May 30, 2018	Jul. 18, 2018	Conduction (CO01-SZ)

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	2.6 dB	
of 95% (U = 2Uc(y))	2.0 UB	

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

Measuring Uncertainty for a Level of Confidence	5.0 dB	
of 95% (U = 2Uc(y))	3.0 dB	

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

- 1			
	Measuring Uncertainty for a Level of Confidence	4.8 dB	
	of 95% (U = 2Uc(y))	4.0 UB	

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

Measuring Uncertainty for a Level of Confidence	4.6 dB	
of 95% (U = 2Uc(y))	4.0 dB	

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