FCC Test Report

APPLICANT : Huawei Technologies Co.,Ltd.

EQUIPMENT: Huawei Mediapad M5 wp

BRAND NAME : HUAWEI

MODEL NAME : d-02K

FCC ID : QISHDL-L0J

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Apr. 04, 2018 and testing was completed on Apr. 20, 2018. 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.

James Huarg

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: QISHDL-L0J Page Number : 1 of 22
Report Issued Date : May 11, 2018
Report Version : Rev. 01

Report No.: FC840402

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC840402	Rev. 01	Initial issue of report	May 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	13.18 dB at		
					0.598 MHz		
	15.109						Under limit
3.2		Radiated Emission	< 15.109 limits	PASS	6.40 dB at		
					862.260 MHz		

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1. General Description

1.1. Applicant

Huawei Technologies Co.,Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.2. Manufacturer

Huawei Technologies Co.,Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3. Product Feature of Equipment Under Test

Product Feature						
Equipment	Huawei Mediapad M5 wp					
Brand Name	HUAWEI					
Model Name	d-02K					
FCC ID	QISHDL-L0J					
	WCDMA/HSDPA/HSUPA B5					
	LTE B5					
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40					
EOT Supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40					
	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80					
	Bluetooth v2.1+EDR/Bluetooth v 4.2 LE					
IMEI Code	Conduction: 867555030008838					
I IWEI Code	Radiation: 867555030004811					
HW Version	SH1HDLAL09M					
SW Version	18032602					

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							
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz						
Rx Frequency	WCDMA Band V: 871.4 MHz ~ 891.6 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS: 1559 MHz ~ 1610 MHz						
Antenna Type	WWAN: IFA Antenna WLAN: IFA Antenna Bluetooth: IFA Antenna GNSS: PIFA Antenna						
Type of Modulation	WCDMA: BPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) LTE: QPSK / 16QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac: OFDM (BPSK / QPSK / 16QAM / 64QAM /256QAM) Bluetooth LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): \pi /4-DQPSK Bluetooth (3Mbps): 8-DPSK GNSS: BPSK						

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 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

Test Site	Sporton International (Kunshan) Inc.						
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China						
Test Site Location	TEL: +86-512-57900158						
	FAX: +86-512-57900958						
Toot Site No	Sporton Si	FCC Test Firm Registration No					
Test Site No.	CO01-KS	03CH02-KS	630927				

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 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.

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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 : WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + USB Cable (Charging from Adapter)
AC Conducted	Mode 2 : LTE Band 5 Idle + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable (Charging from Adapter)
Emission	Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4 + Earphone + USB Cable (Charging from Adapter)
	Mode 4 : LTE Band 5 Idle + Bluetooth Idle + WLAN (5G) Idle + GNSS RX + Earphone + USB Cable (Data Link with Notebook)
	Mode 1 : WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + USB Cable (Charging from Adapter)
Radiated	Mode 2 : LTE Band 5 Idle + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable (Charging from Adapter)
Emissions	Mode 3 : WCDMA Band V Idle + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4 + Earphone + USB Cable (Charging from Adapter)
	Mode 4 : LTE Band 5 Idle + Bluetooth Idle + WLAN (5G) Idle + GNSS RX + Earphone + USB Cable (Data Link with Notebook)

Remark:

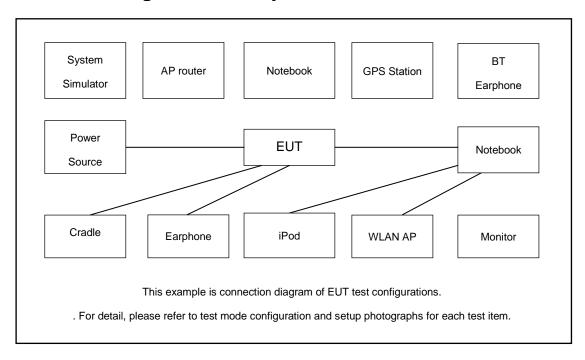
- 1. The worst case of AC is mode 3; only the test data of this mode is reported.
- 2. The worst case of RE is mode 4; only the test data of this mode is reported.
- 3. Data Link with Notebook means data application transferred mode between EUT and Notebook.

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2.2.Connection Diagram of Test System



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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	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
3.	Notebook	Lenovo	G480	PRC4 N/A		shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11 N/A		shielded cable DC O/P1.8m , Unshielded AC I/P1.8m
5.	WLAN AP	D-link	DIR-855	KA2DIR855A2	N/A	Unshielded,1.8m
6.	Router	TP-LINK	TL-WDR5600	N/A	N/A	Unshielded,1.8m
7.	Earphone	Lenovo	LH102	N/A	N/A	Unshielded,1.2m
8.	Earphone	Lenovo	LH100	N/A	N/A	Unshielded,1.2m
9.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
10.	iPod	Apple	A1199	Fcc DoC	Shielded, 1.2m	N/A
11.	SD Card	Kingston	SDC4/4GB	N/A	N/A	N/A
12.	Notebook	Dell	Latitude3440	N/A N/A		shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
13.	iPod	Apple	A1199	DoC	Shielded, 1.2m	N/A
14.	SD Card	SanDisk	Uitra	N/A	N/A	N/A

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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.

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 Notebook and EUT via USB cable.
- 2. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
- 3. Execute "Video player" to play MPEG4 files.
- 4. Turn on camera to capture images.
- 5. Turn on Run ASUS Tool.

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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

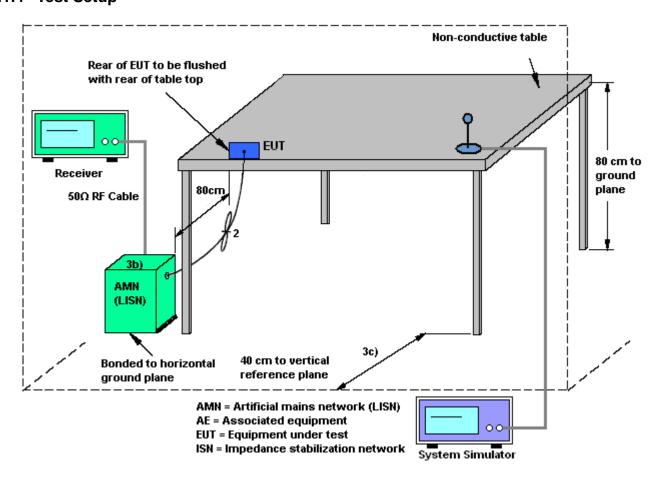
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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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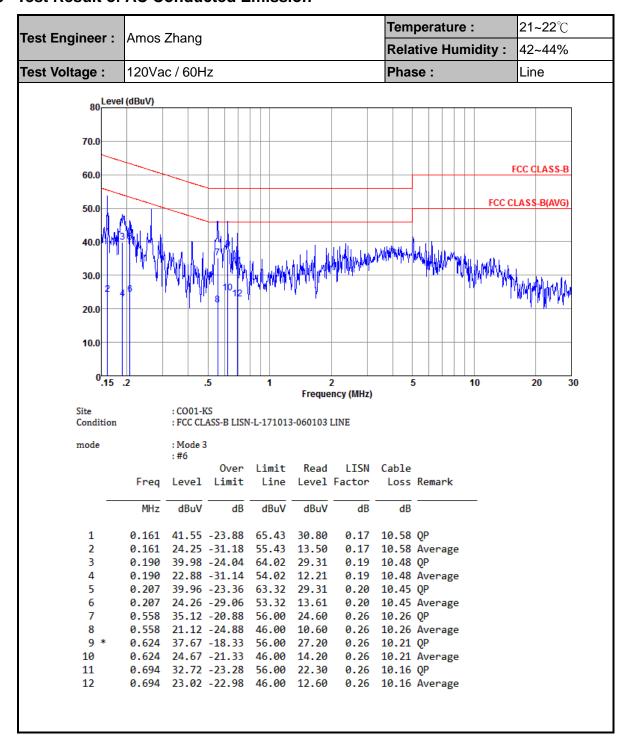
3.1.4 Test Setup



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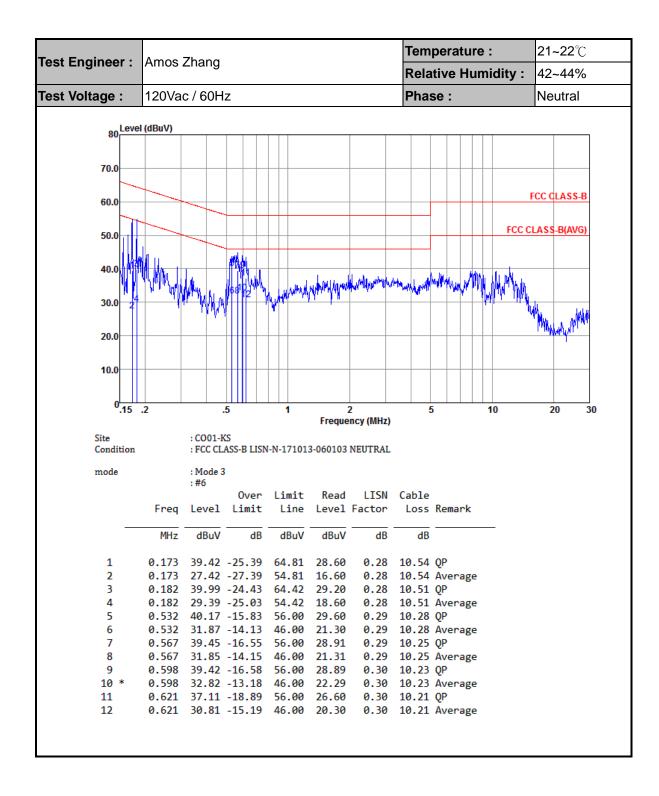
3.1.5 Test Result of AC Conducted Emission



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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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Note: Measurement below 1GHz follows the CISPR 22 limit line as below:

15.109 (g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement"

Frequency	Field Strength	Measurement Distance		
(MHz)	(dBuV/meter)	(meters)		
30 – 230	30	10		
230 – 1000	37	10		

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 10 meters (30M~1G) and 3 meters (1G~ 26.5G) 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

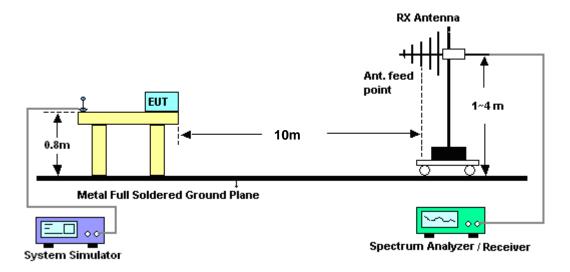
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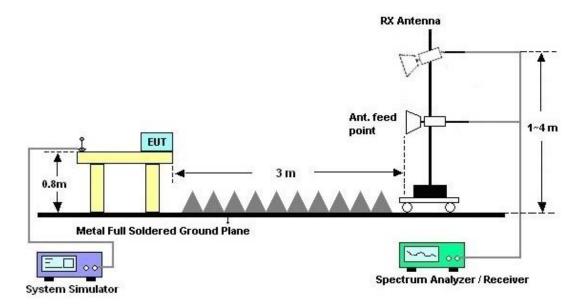
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



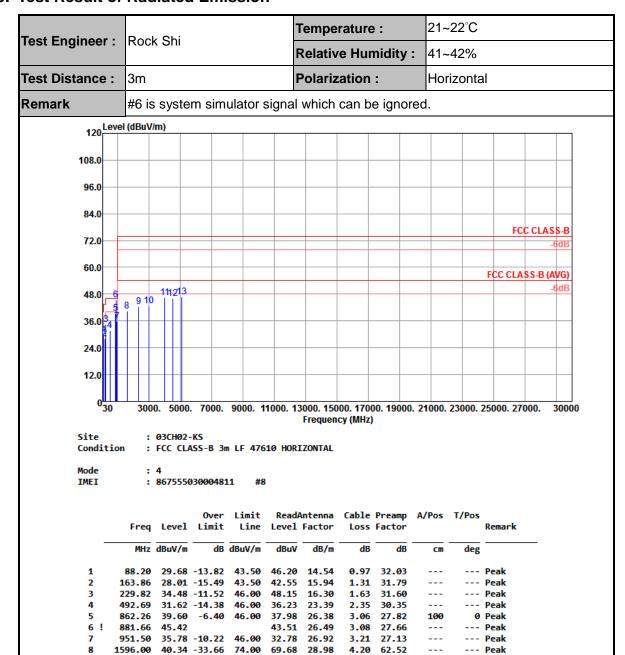
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



2330.00

2970.00

3999.00

4524.00

5085.00

11

42.44 -31.56

42.91 -31.09

46.34 -27.66

46.17 -27.83

46.84 -27.16

68.44

66.37

64.83

64.64

32.50

35.09

35.45

74.00

74.00

74.00

74.00

5.07

5.94

6.71

7.45

61.83

62.00

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--- Peak

--- Peak

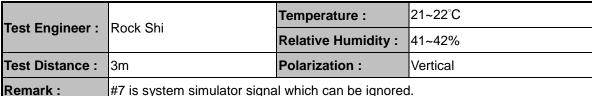
--- Peak

--- Peak

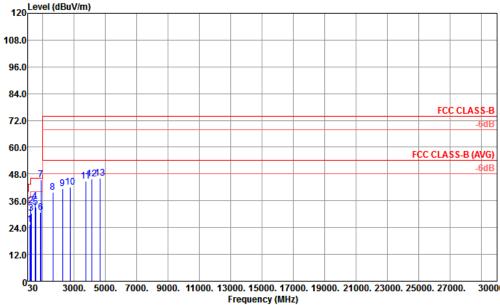
--- Peak

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#7 is system simulator signal which can be ignored.



: 03CH02-KS Site

Condition : FCC CLASS-B 3m LF 47610 VERTICAL

Mode

: 867555030004811 IMEI #8

	_			Limit				Preamp		T/Pos	
	Freq	rever	Limit	Line	rever	Factor	Loss	Factor			Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	163.86	25.28	-18.22	43.50	39.82	15.94	1.31	31.79			Peak
2	229.82	33.71	-12.29	46.00	47.38	16.30	1.63	31.60			Peak
3	261.83	30.37	-15.63	46.00	40.39	19.64	1.79	31.45			Peak
4	492.69	35.88	-10.12	46.00	40.49	23.39	2.35	30.35	100	0	Peak
5	536.34	32.99	-13.01	46.00	36.03	24.52	2.51	30.07			Peak
6	862.26	30.87	-15.13	46.00	29.25	26.38	3.06	27.82			Peak
7!	877.78	45.42			43.56	26.47	3.08	27.69			Peak
8	1640.00	39.73	-34.27	74.00	68.96	29.05	4.26	62.54			Peak
9	2250.00	41.38	-32.62	74.00	67.59	31.08	4.99	62.28			Peak
10	2768.00	42.26	-31.74	74.00	66.99	31.94	5.78	62.45			Peak
11	3744.00	44.69	-29.31	74.00	65.23	34.59	6.57	61.70			Peak
12	4140.00	45.95	-28.05	74.00	65.38	35.34	7.16	61.93			Peak
13	4665.00	46.24	-27.76	74.00	64.47	35.77	7.66	61.66			Peak

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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. 19, 2018	Apr. 20, 2018	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Apr. 20, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Apr. 20, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000081 1	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Apr. 20, 2018	Oct. 11, 2018	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Aug08.2017	Apr. 18, 2018	Aug.07.2018	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44G,MAX 30dB	Apr. 17, 2018	Apr. 18, 2018	Apr. 16, 2019	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-2GHz	Jan. 29, 2018	Apr. 18, 2018	Jan. 28, 2019	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	Apr. 18, 2018	Oct. 20, 2018	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Apr. 18, 2018	Feb.06, 2019	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-H G	1887435	18~40GHz	Oct. 12, 2017	Apr. 18, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug.07,2017	Apr. 18, 2018	Aug.06,2018	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 12, 2017	Apr. 18, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Apr. 18, 2018	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Apr. 18, 2018	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Apr. 18, 2018	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	2.2.4D
of 95% (U = 2Uc(y))	2.3 dB

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

Measuring Uncertainty for a Level of Confidence	4.2 dB
of 95% (U = 2Uc(y))	4.2 UB

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

Measuring Uncertainty for a Level of Confidence	E 0 4D	
of 95% (U = 2Uc(y))	5.0 dB	

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confid	lence
of 95% (U = 2Uc(y))	4.7 dB

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