



RF TEST REPORT

Report No.: SET2015-09451

Product Name: Mobile phone

FCC ID: SG720150715G30

Model No.: G30

Applicant: Haier Telecom (Qingdao) Co.,Ltd.

Address: No.1 Haier Road, Hi-tech Zone, Qingdao, China

Dates of Testing: 06/20/2015 — 06/30/2015

Issued by: CCIC-SET

Lab Location: Electronic Testing Building, Shahe Road, Xili, Nanshan

District, Shenzhen, 518055, P. R. China

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Test Report

Product Name: Mobile phone

Brand Name: Haier

Trade Name: Haier

Applicant: Haier Telecom (Qingdao) Co.,Ltd.

Applicant Address.....: No.1 Haier Road, Hi-tech Zone, Qingdao, China

Manufacturer....: Haier Telecom (Qingdao) Co.,Ltd.

Manufacturer Address: No.1 Haier Road, Hi-tech Zone, Qingdao, China

Test Standards...... 47 CFR Part 15 Subpart C: Radio Frequency Devices

ANSI C63.10 2009: American National Standard for

Testing Unlicensed Wireless Devices

KDB558074 D01 DTS Meas Guidance v03r02

Test Result: PASS

Tested by::

2015.06.30

Lu Lei, Test Engineer

Reviewed by....::

2015.06.30

Zhu Qi, Senior Egineer

Approved by::

2015.06.30

Wu Li'an, Manager

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		Change History
Issue	Date	Reason for change
1.0	2015-06-30	First edition





1. General Information

1.1. EUT Description

EUT Type	Mobile phone			
Hardware Version	M11_V1.01_PCB			
Software Version	HW-W816-H01-S0	006		
	GSM/GPRS/WCD	MA/HSPA		
EUT supports Radios application	WLAN2.4GHz 802	WLAN2.4GHz 802.11b/g/n (HT20/HT40)		
	Bluetooth V2.1+EDR / Bluetooth V4.0LE			
Frequency Range	Bluetooth LE 4.0 2402MHz~2480MHz			
Channel Number	Bluetooth LE 4.0	40		
Bit Rate of Transmitter	Bluetooth LE 4.0 1Mbps			
Modulation Type	Bluetooth LE 4.0 GFSK			
Antenna Type	FPC Antenna			
Antenna Gain	-4 dBi			

- Note 1: The EUT is a Mobile phone, it contain Bluetooth 4.0 LTE Module operating at 2.4GHz ISM band; the frequencies allocated for the Bluetooth 4.0 LTE is F(MHz)=2402+2*n (0<=n<=39). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 20(2442MHz) and 39 (2480MHz).
- Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.
- Note 3: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC Certification:

No.	Identity	Document Title		
1	47 CFR Part 15 Subpart C 2013	Radio Frequency Devices		
2	ANSI C63.10-2009	American National Standard for Testing Unlicensed Wireless Devices		

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.247(b)	Peak Output Power	PASS
3	15.247(a)	Bandwidth	PASS
4	15.247(d)	Conducted Band Edges and Spurious Emission	PASS
5	15.247(e)	Power spectral density (PSD)	PASS
6	15.207	Conducted Emission	PASS
7	15.209 15.247(d)	Radiated Band Edges and Spurious Emission	PASS
8	1.1307(b)	RF exposure evaluation	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 V03r02 (04/09/2013).



1.3. Facilities and Accreditations

1.3.1. Facilities

CNAS-Lab Code: L1659

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. CCIC is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659. A 12.8*6.8*6.4 (m) fully anechoic chamber was used for the radiated spurious emissions test.

FCC-Registration No.: 406086

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 406086, valid time is until October 28, 2017.

IC-Registration No.: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on July. 15, 2013, valid time is until July. 15, 2016.

1.3.2. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa



2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, 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.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Category: External antenna

An External antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT Model	Ant. Cat.	Ant. Type	Gain(dBi)
1	G30	External	FPC	-4

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.



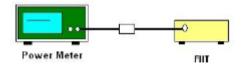


2.2. Peak Output Power

2.2.1. Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

2.2.2. Test Setup



2.2.3. Test Procedures

- 1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
 - 3. Set to the maximum power setting and enable the EUT transmit continuously.
 - 4. Measure the conducted output power and record the results in the test report.

2.2.4. Test Result

Channel	Frequency (MHz)	RF Power(dBm) GFSK/1Mbps	Limit (dBm)	Verdict
0	2402	0.34		PASS
20	2442	0.03	30	PASS
39	2480	0.23		PASS

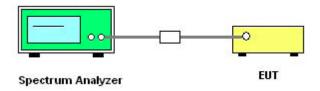


2.3. 6dB Bandwidth

2.3.1. Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

2.3.2. Test Setup



2.3.3. Test Procedures

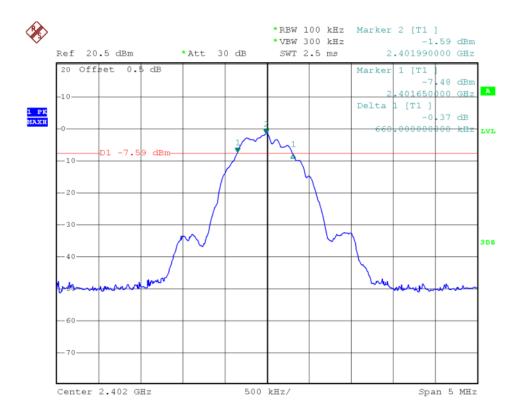
- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
 - 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 30kHz and set the Video bandwidth (VBW) = 100kHz.
 - 6. Measure and record the results in the test report.

2.3.4. Test Result

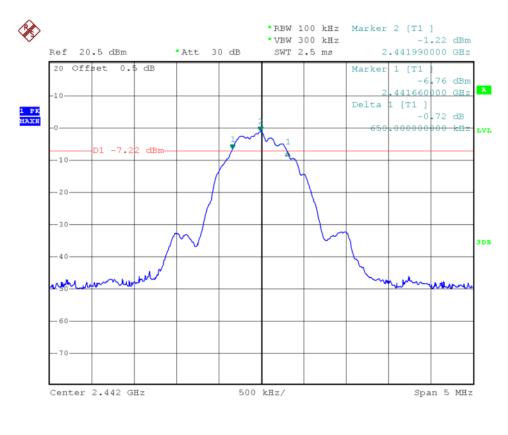
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (MHz)	Result
0	2402	0.6600	≥0.5	PASS
20	2442	0.6500	≥0.5	PASS
39	2480	0.6700	≥0.5	PASS



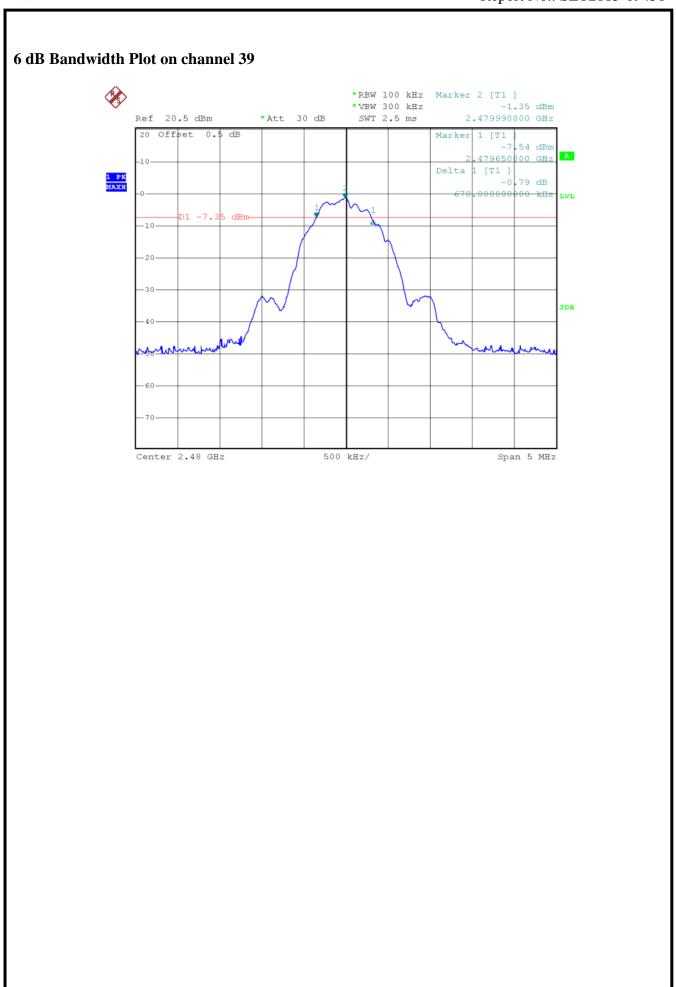




6 dB Bandwidth Plot on channel 20









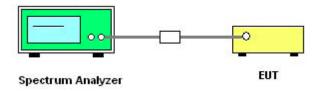


2.4. Conducted Band Edges and Spurious Emissions

2.4.1. Limit of Conducted Band Edges and Spurious Emissions

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

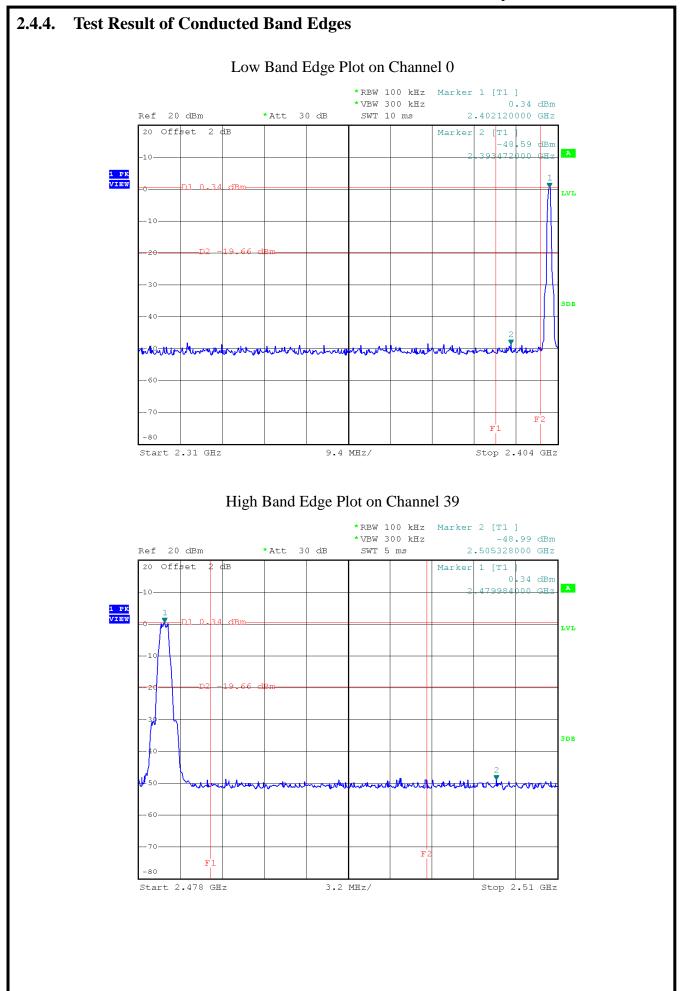
2.4.2. Test Setup



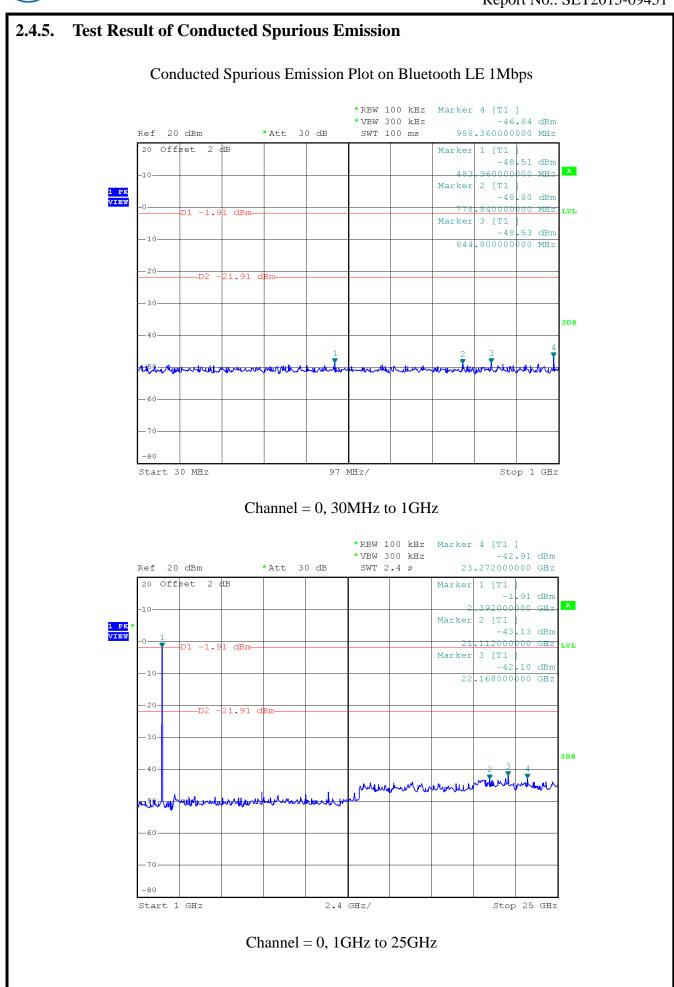
2.4.3. Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

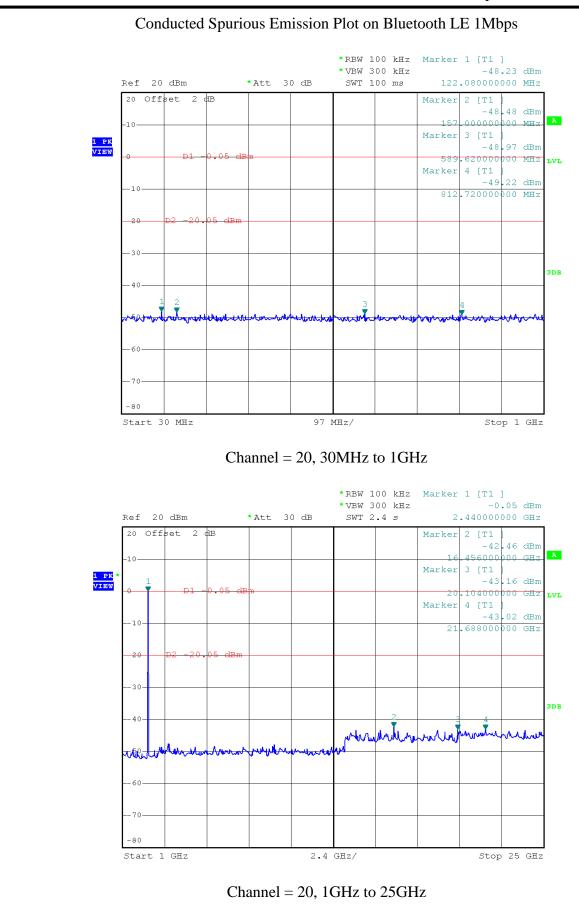




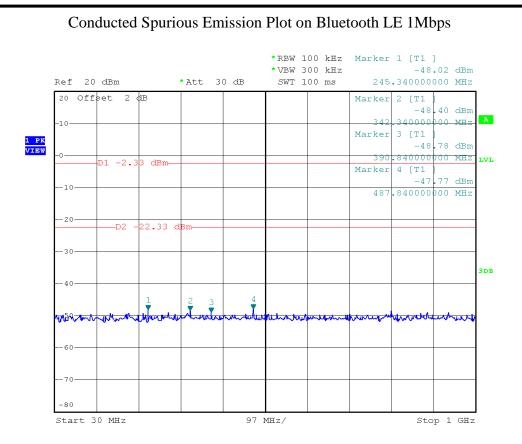


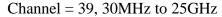


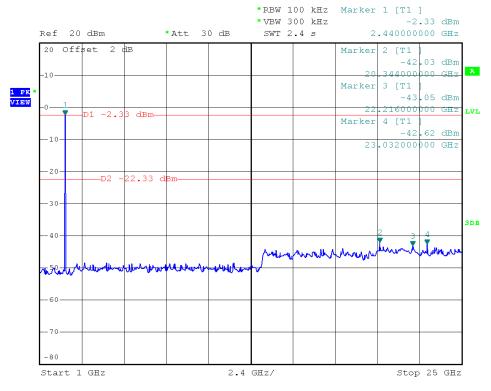












Channel = 39, 30MHz to 25GHz



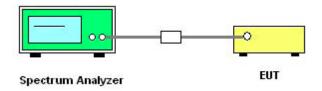


2.5. Power spectral density (PSD)

2.5.1. Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

2.5.2. Test Setup



2.5.3. Test Procedures

- 1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas, Guidance v03r02
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
 - 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
 - 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

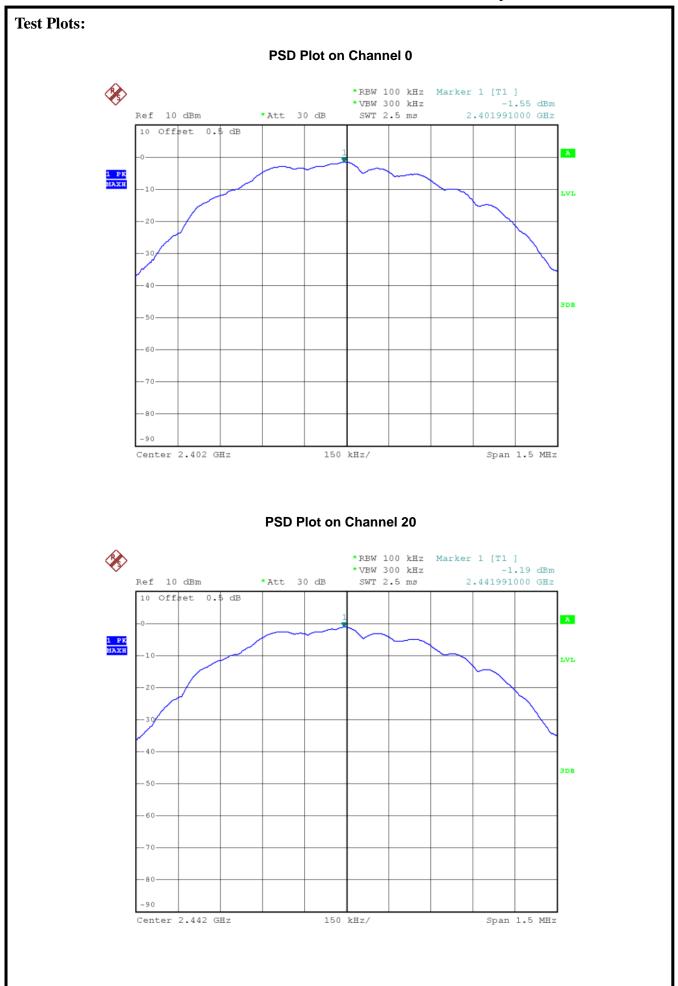
2.5.4. Test Result

Spectral power density (dBm)								
Channel	Frequency	DCD/1001 II (1D)	DCD/21/Hz (dDm)	Limit	Verdic			
Channel	hannel (MHz) PSD/100kHz (dBm)		PSD/3kHz (dBm)	(dBm/3kHz)	t			
0	2402	-1.55	-16.75	8	PASS			
20	2444	-1.19	-16.39	8	PASS			
39	2480	-1.33	-16.53	8	PASS			
Measuremen	Measurement uncertainty: +1 3dB							

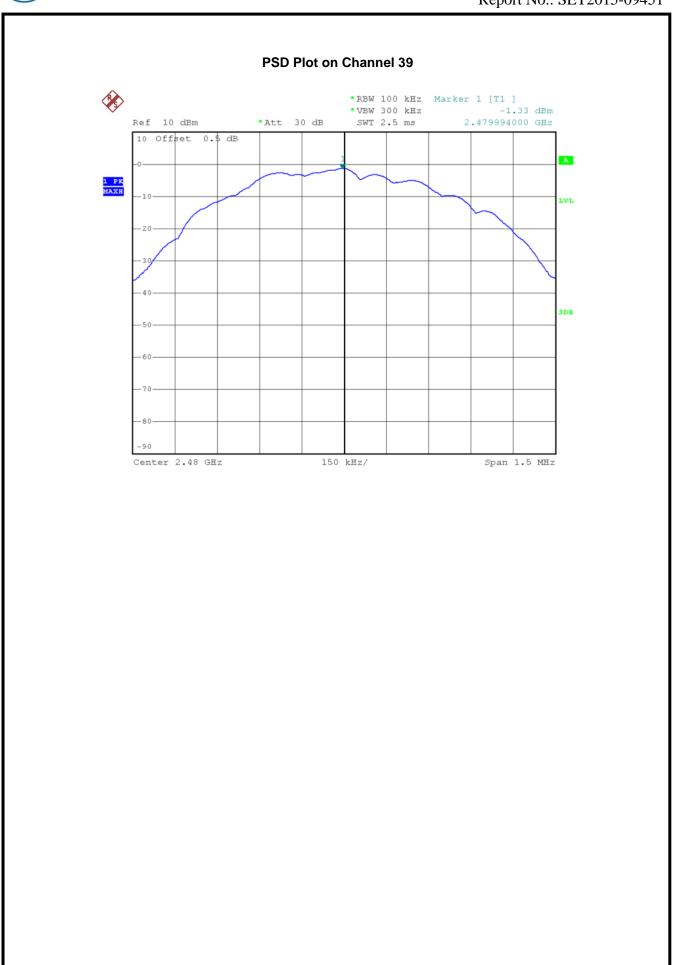
Note:

- 1. Measured power density (dBm) has offset with cable loss.
- 2. Bandwidth correction: $10\log(3kHz/100kHz)=-15.2dB$











2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

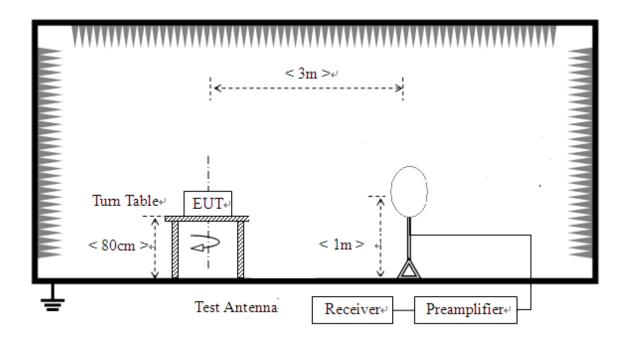
In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Note: Wireless charger configuration was evaluated.

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

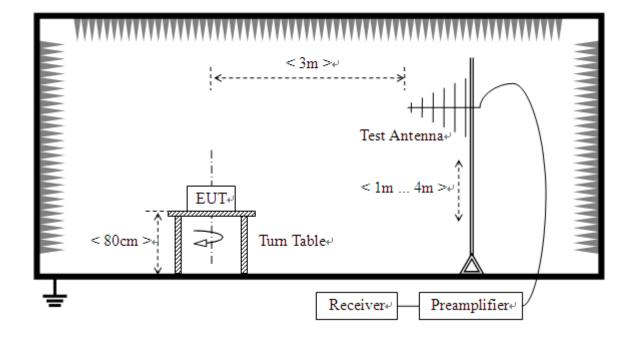
2.6.2. Test Setup

For radiated emissions from 9kHz to 30MHz

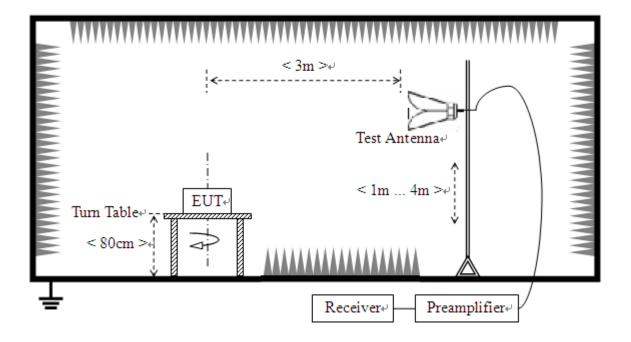




For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





2.6.3. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported.
 Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

2.6.4. Test Result

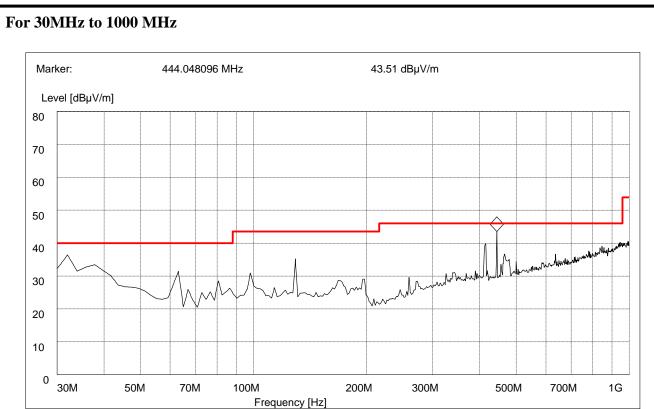
For 9KHz to 30MHz

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.





MES V1 LIM FCC CI.B 3m

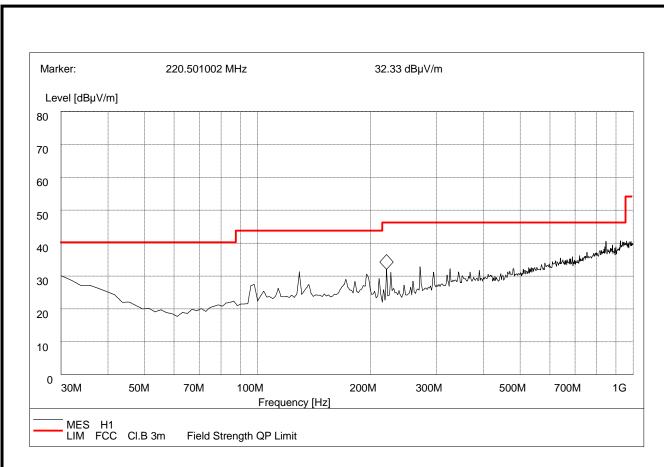


Plot A: 30MHz to 1GHz, Antenna Vertical

Field Strength QP Limit

Frequency (MHz)	QuasiPeak (dBµV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBµV/m)	Antenna	Verdict
414.52	39.68	120.000	100.0	46.0	Vertical	Pass
444.05	43.51	120.000	100.0	46.0	Vertical	Pass





Plot B: 30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dBµ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBµ V/m)	Antenna	Verdict
220.50	32.33	120.000	100.0	46.0	Horizontal	Pass
276.15	32.29	120.000	100.0	46.0	Horizontal	Pass



For 1GHz to 25GHz

AN	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (0CH_2402MHz)									
No.	Frequency (MHz)	Emss Lev (dBuV	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	2390.00	56.7	PK	74.0	-17.3	1.01 H	228	24.50	32.20	
2	2390.00	43.9	AV	54.0	-10.1	1.01 H	228	11.70	32.20	
3	*2402.00	101.4	PK	/	/	1.03 H	112	69.20	32.20	
4	*2402.00	98.0	AV	/	/	1.03 H	112	65.80	32.20	
5	4804.00	51.8	PK	74.00	-22.2	1.00 H	254	46.50	5.30	
6	4804.00	48.6	AV	54.00	-5.4	1.00 H	254	43.30	5.30	
A	NTENNA 1	POLAR	ITY &	& TEST D	ISTANC	E: VERTIC	CALAT 3 M	(0CH_2402	2MHz)	
No.	No. Frequency (MHz) Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	2390.00	57.0.	PK	74.0	-17.0	1.11 V	228	24.80	32.20	
2	2390.00	44.2	AV	54.0	-9.8	1.11 V	228	12.00	32.20	
3	*2402.00	117.1	PK	/	/	1.09 V	112	84.90	32.20	
4	*2402.00	113.6	AV	/	/	1.03 V	112	81.40	32.20	
5	4804.00	54.4	PK	74.00	-19.6	1.21 V	254	49.10	5.30	
6	4804.00	44.3	AV	54.00	-9.7	1.21 V	254	39.00	5.30	



AN	TENNA PO	LARIT	'Y & T	TEST DIST	TANCE:	HORIZON	TALAT 3 N	/ (20CH_24	42MHz)
No.	Frequency (MHz)	Emss Lev (dBuV	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2442.00	107.3	PK	/	/	1.01 H	210	75.10	32.20
2	*2442.00	104.1	AV	/	/	1.01 H	210	71.90	32.20
3	4884.00	53.8	PK	74.00	-20.2	1.03 H	272	48.50	5.30
4	4884.00	46.2	AV	54.00	-7.8	1.03 H	272	40.90	5.30
A	NTENNA P	POLAR	ITY 8	z TEST DI	STANCE	E: VERTICA	ALAT 3 M	(20CH_2442	2MHz)
No.	Frequency (MHz)	Emss Lev (dBuV	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2442.00	109.0	PK	/	/	1.09 V	112	76.80	32.20
2	*2442.00	105.3	AV	/	/	1.09 V	112	73.10	32.20
3	4884.00	56.8	PK	74.00	-17.2	1.21 V	254	51.50	5.30
4	4884.00	46.5	AV	54.00	-7.5	1.21 V	254	41.20	5.30



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (39CH_2480MHz)									
No.	Frequency (MHz)	Emss Lev (dBuV	rel	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	106.2	PK	/	/	1.05 V	215	73.90	32.30
2	*2480.00	102.3	AV	/	/	1.05 V	215	70.00	32.30
3	2483.50	57.3	PK	74.0	-16.7	1.05 V	211	24.90	32.40
4	2483.50	45.0	AV	54.0	-9.0	1.05 V	211	12.60	32.40
5	4960.00	52.4	PK	74.0	-11.6	1.45 V	320	46.90	5.50
6	4960.00	48.3	AV	54.0	-5.7	1.45 V	320	42.80	5.50
A	NTENNA P	OLAR	ITY 8	E TEST DI	STANCE	E: VERTICA	ALAT 3 M	(39CH_248	0MHz)
No.	Frequency (MHz)	Level		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2480.00	120.3	PK	/	/	1.05 V	174	88.00	32.30
2	*2480.00	116.8	AV	/	/	1.05 V	174	84.50	32.30
3	2483.50	55.5	PK	74.0	-18.5	1.05 V	177	23.10	32.40
4	2483.50	45.7	AV	54.0	-8.3	1.05 V	177	13.30	32.40
5	4960.00	55.9	PK	74.0	-18.1	1.45 V	201	50.40	5.50
6	4960.00	46.9	AV	54.0	-7.1	1.45 V	201	41.40	5.50

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
 - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency.



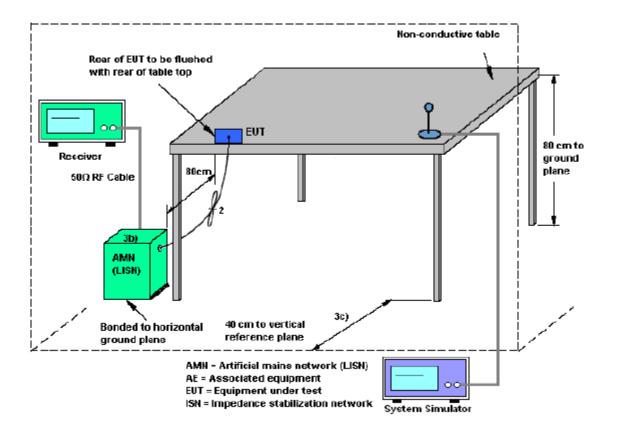
2.7. Conducted Emission

2.7.1. Limit of 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.

Eraguanay ranga (MHz)	Conducted Limit (dBµV)				
Frequency range (MHz)	Quai-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5	56	46			
5 - 30	60	50			

2.7.2. Test Setup







Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due Date	
Test Receiver	R&S	ESCS30	A0304260	2014.06.11	2015.06.10	
LISN	R&S	ESH2-Z5	A0304221	2014.06.11	2015.06.10	
Service Supplier	R&S	CMU200	A0304252	2014.06.11	2015.06.10	
Pulse Limiter (20dB)	Schwarzbeck	VTSD 9561-D	A0304291	(n.a.)	(n.a.)	
Cable	MATCHING PAD	W7	/	2014.06.05	2015.06.04	

2.7.3. Test Procedures

- 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.

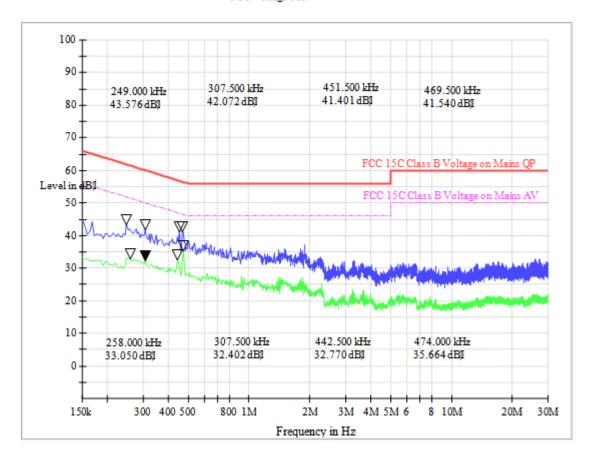
2.7.4. Test Result

The EUT configuration of the emission tests is Bluetooth Link + WLAN Link + USB Cable (Charging from Adapter) + Earphone.



Test Plots:

FCC Voltage Test

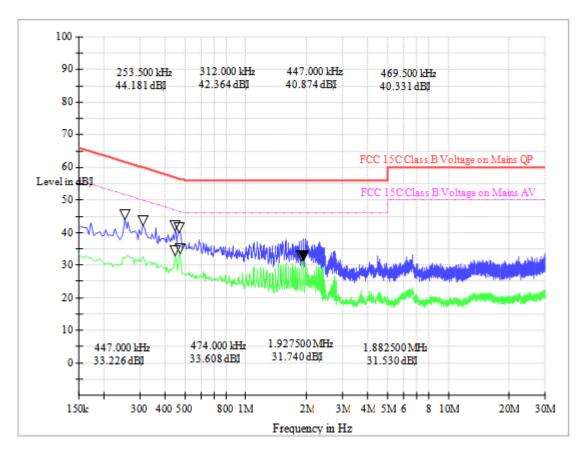


(Plot A: L Phase)

Conducted Disturbance at Mains Terminals										
	L Test Data									
	QP AV									
Frequency (MHz) Limits (dBµV)		Measurement Value (dBμV)	Frequency (MHz)	Limits (dBµV)	Measurement Value (dBμV)					
0.249	61.8	43.58	0.258	51.5	33.05					
0.308	60.0	42.07	0.308	50.0	32.40					
0.452	56.8	41.40	0.443	47.0	32.77					
0.470	56.5	41.54	0.474	46.4	35.66					







(Plot B: N Phase)

	Conducted Disturbance at Mains Terminals									
	N Test Data									
	QP AV									
Frequency (MHz) Limits (dBµV)		Measurement Value (dBμV)	Frequency (MHz)	Limits (dBµV)	Measurement Value (dBμV)					
0.254	61.6	44.18	0.447	46.9	33.23					
0.312	59.9	42.36	0.474	46.4	33.61					
0.447	56.9	40.87	1.928	46.0	31.74					
0.470	56.5	40.33	1.883	46.0	31.53					

Test Result: PASS



3. List of measuring equipment

Description	Manufacturer	Model	Serial No.	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2015.06.02	2016.06.02	Radiation
Full-Anechoic Chamber	Albatross	12.8m*6.8m* 6.4m	A0412372	2015.01.05	2016.01.04	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2015.06.02	2016.06.02	Radiation
Bilog Antenna	Schwarzbeck	VULB 9163	9163-274	2015.06.02	2016.06.02	Radiation
Double ridge horn antenna	R&S	HF960	100150	2015.06.02	2016.06.02	Radiation
Ultra-wideban d antenna	R&S	HL562	100089	2015.06.02	2016.06.02	Radiation
Test Antenna – Horn (18-25GHz)	ETS	UG-596A/U	A0902607	2015.06.02	2016.06.02	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2015.06.02	2016.06.02	Radiation
Ampilier 1G~18GHz	R&S	MITEQ AFS42-00101 800	25-S-42	2015.06.02	2016.06.02	Radiation
Ampilier 18G~40GHz	R&S	JS42-180026 00-28-5A	12111.0980.00	2015.06.02	2016.06.02	Radiation
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2014.07.07	2015.07.06	Conducted
Power Meter	R&S	NRVS	1020.1809.02	2015.06.02	2016.06.02	Conducted
Power Sensor	R&S	NRV-Z4	823.3618.03	2015.06.02	2016.06.02	Conducted
LISN	ROHDE&SC HWARZ	ESH2-Z5	A0304221	2015.06.02	2016.06.02	Conducted
Test Receiver	R&S	ESCS30	A0304260	2015.06.02	2016.06.02	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2015.06.02	2016.06.02	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2015.06.02	2016.06.02	Radiation

** END OF REPORT **