

RF TEST REPORT



Report No.: 15070591-FCC-R2

Supersede Report No.: N/A

Applicant	Verykool USA Inc	
Product Name	Mobile phone	
Model No.	SL5009	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2014, ANSI C63.10: 2013	
Test Date	July 21 to July 31, 2015	
Issue Date	August 03, 2015	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification	<input checked="" type="checkbox"/>	
Equipment did not comply with the specification	<input type="checkbox"/>	
<i>Winnie Zhang</i>	<i>David Huang</i>	
Winnie Zhang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070591-FCC-R2	NONE	Original	August 03, 2015

2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA
Manufacturer	Zechin Communications Co.,Ltd.
Manufacturer Add	Unit804,8th Floor Desay Tech Building Gaoxin, Road South, Nanshan District Shenzhen,China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	SL5009
Serial Model:	N/A
Date EUT received:	July 20, 2015
Test Date(s):	July 21 to July 31, 2015
Equipment Category :	DSS
Antenna Gain:	<p>GSM850: 1.6 dBi PCS1900: 3.8 dBi UMTS-FDD Band V: 1.7 dBi UMTS-FDD Band IV: 3.7 dBi UMTS-FDD Band II: 3.8 dBi Bluetooth/BLE: 3 dBi WIFI: 2.9 dBi LTE Band 2: 3.8 dBi LTE Band 4: 3.8 dBi LTE Band 5: 3.8 dBi LTE Band 7: 3.8 dBi LTE Band 12: 3.8 dBi LTE Band 17: 3.8 dBi GPS:1.6 dBi</p>
Type of Modulation:	<p>GSM / GPRS: GMSK EGPRS: GMSK, 8PSK UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π/4DQPSK, 8DPSK BLE: GFSK LTE Band: QPSK, 16QAM GPS:BPSK</p>

RF Operating Frequency (ies):	<p>GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz</p> <p>PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz</p> <p>UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz</p> <p>UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;</p> <p>UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;</p> <p style="padding-left: 40px;">RX: 1932.4 ~ 1987.6 MHz</p> <p>WiFi:802.11b/g/n(20M): 2412-2462 MHz</p> <p>WiFi:802.11n(40M): 2422-2452 MHz</p> <p>Bluetooth& BLE: 2402-2480 MHz</p> <p>LTE Band 2 TX: 1852.5 ~ 1907.5 MHz; RX : 1932.5 ~ 1987.5 MHz</p> <p>LTE Band 4 TX: 1712.5 ~ 1752.5 MHz; RX : 2112.5 ~ 2152.5 MHz</p> <p>LTE Band 5 TX: 826.5 ~ 846.5 MHz; RX : 871.5 ~ 891.5 MHz</p> <p>LTE Band 7 TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz</p> <p>LTE Band 12 TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz</p> <p>LTE Band 17 TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz</p> <p>GPS RX:1575.42 MHz</p>
Max. Output Power:	3.960dBm
Number of Channels:	<p>GSM 850: 124CH</p> <p>PCS1900: 299CH</p> <p>UMTS-FDD Band V : 102CH</p> <p>UMTS-FDD Band IV: 202CH</p> <p>UMTS-FDD Band II : 277CH</p> <p>WiFi :802.11b/g/n(20M): 11CH</p> <p>WiFi :802.11n(40M): 7CH</p> <p>Bluetooth: 79CH</p> <p>BLE: 40CH</p> <p>GPS:1CH</p>
Port:	Power Port, Earphone Port, USB Port
Input Power:	<p>Battery:</p> <p>Model:344482PV</p> <p>Spec:3.8V,1900mAh,7.22Wh</p> <p>Limited Charging Voltage: 4.35V</p> <p>Adapter:</p> <p>Model:SC050100-US</p>

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Input: 100-240V; 50/60Hz; 0.4A

Output: DC 5.0V,1A

Trade Name : verykool

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: WA6SL5009

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247(a)(1)	Channel Separation	Compliance
§15.247(a)(1)	20 dB Bandwidth	Compliance
§15.247(b)(1)	Peak Output Power	Compliance
§15.247(a)(1)(iii)	Number of Hopping Channel	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(d)	Band Edge	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliance

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the 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 6 dBi.

Antenna Connector Construction

The EUT has 3 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 3dBi for Bluetooth/BLE, the gain is 2.9dBi for WIFI.

A permanently attached PIFA antenna for GSM/PCS/LTE and UMTS, the gain is 1.6dBi for GSM850, 3.8dBi for PCS1900, 1.7dBi for UMTS-FDD Band V, 3.7dBi for UMTS-FDD Band IV, 3.8dBi for UMTS-FDD Band II, 3.8dBi for LTE Band 2/ Band 4/ Band5/ Band 7/ Band 12/ Band 17.

A permanently attached PIFA antenna for GPS, the gain is 1.6dBi for GPS.

The antenna meets up with the ANTENNA REQUIREMENT.

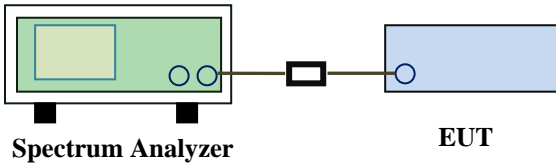
Result: Compliance.

6.2 Channel Separation

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	July 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.247(a)(1)	a)	Channel Separation < 20dB BW and 20dB BW < 25KHz ; Channel Separation Limit=25KHz Chanel Separation < 20dB BW and 20dB BW > 25kHz ; Channel Separation Limit=2/3 20dB BW	<input checked="" type="checkbox"/>

Test Setup	 <p>The diagram shows a green Spectrum Analyzer on the left connected by a black cable to a blue EUT (Equipment Under Test) on the right. The Spectrum Analyzer has two small circles on its front panel, and the EUT has one. The labels 'Spectrum Analyzer' and 'EUT' are centered below their respective boxes.</p>
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Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> - The EUT must have its hopping function enabled - Span = wide enough to capture the peaks of two adjacent channels - Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span - Video (or Average) Bandwidth (VBW) ≥ RBW - Sweep = auto - Detector function = peak - Trace = max hold - Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.
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Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

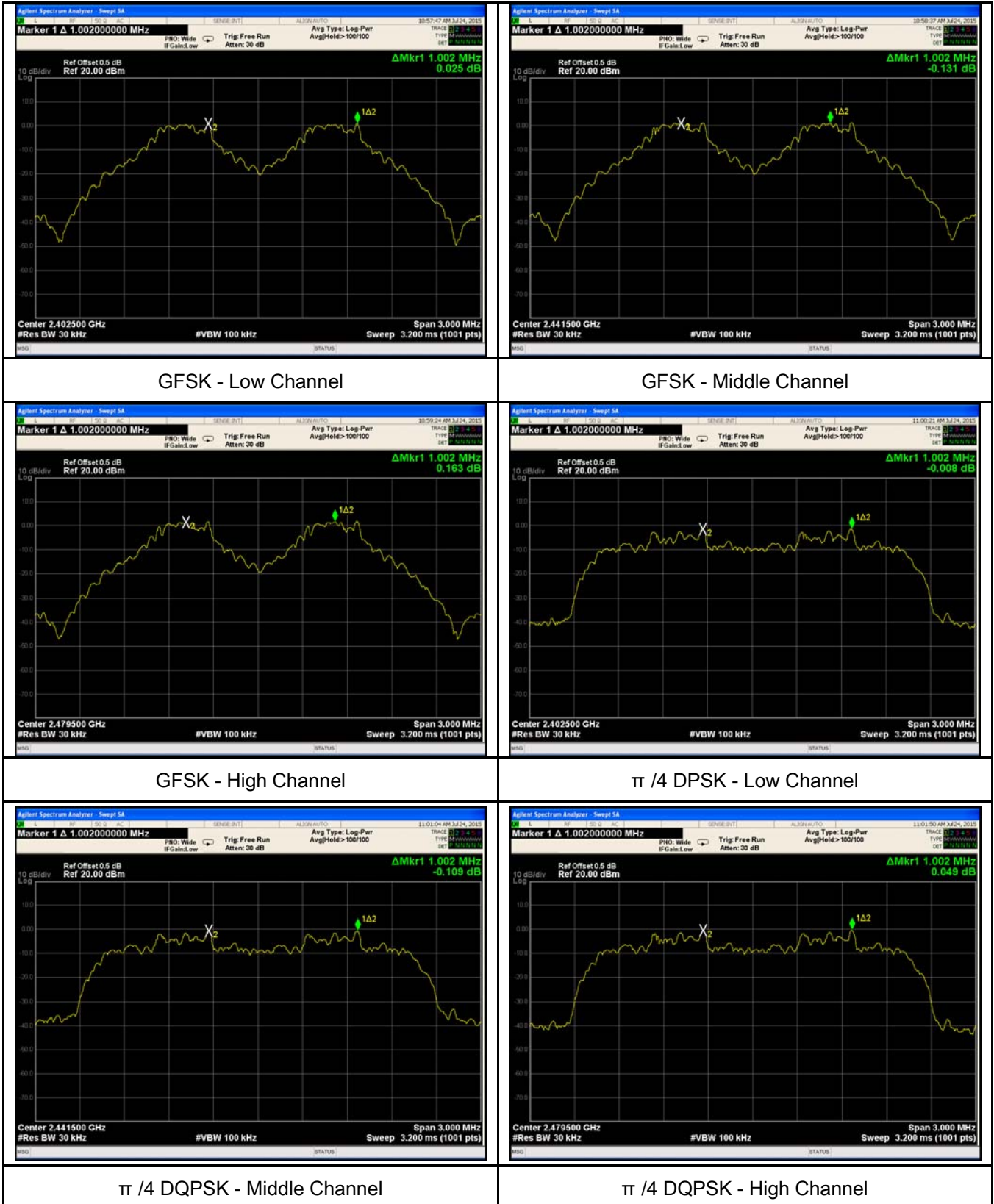
Test Plot Yes (See below) N/A

Channel Separation measurement result

Type/ Modulation	CH	CH Freq (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1.002	0.642	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.642	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.646	Pass
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1.002	0.855	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.857	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.858	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.002	0.871	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.871	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.859	Pass
	Adjacency Channel	2479			

Test Plots

Channel Separation measurement result





8DPSK - Low Channel



8DPSK - Middle Channel



8DPSK - High Channel

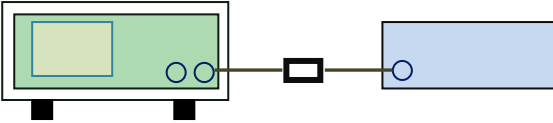


6.3 20dB Bandwidth

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	July 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)	a)	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.	<input checked="" type="checkbox"/>

Test Setup	 <div style="display: flex; justify-content: space-around; width: 100%;"> Spectrum Analyzer EUT </div>
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Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines.</p> <p><u>Use the following spectrum analyzer settings:</u></p> <ul style="list-style-type: none"> - Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel - RBW ≥ 1% of the 20 dB bandwidth - VBW ≥ RBW - Sweep = auto - Detector function = peak - Trace = max hold. - The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference
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	marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Measurement result

Modulation	CH	CH Freq (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
GFSK	Low	2402	0.9625	0.8924
	Mid	2441	0.9629	0.8889
	High	2480	0.9691	0.8907
$\pi/4$ DQPSK	Low	2402	1.2830	1.1719
	Mid	2441	1.2860	1.1723
	High	2480	1.2870	1.1757
8-DPSK	Low	2402	1.3060	1.1849
	Mid	2441	1.3060	1.1890
	High	2480	1.2890	1.1933

Test Plots

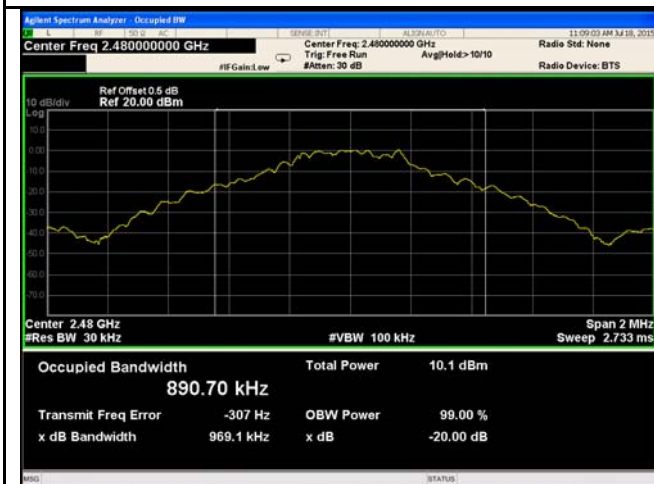
20dB Bandwidth measurement result



GFSK - Low Channel



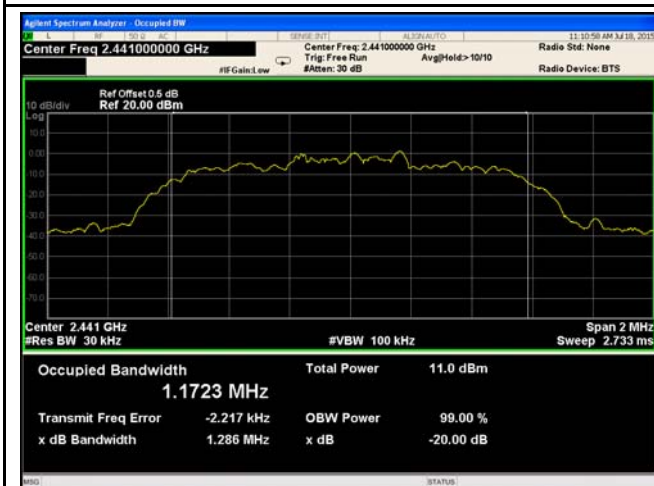
GFSK - Middle Channel



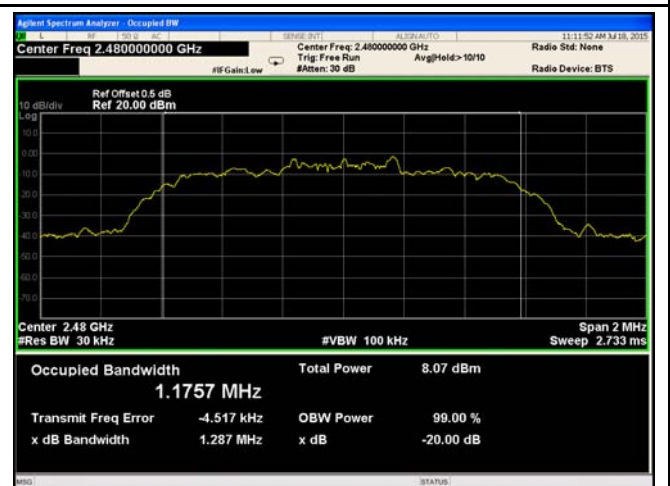
GFSK - High Channel



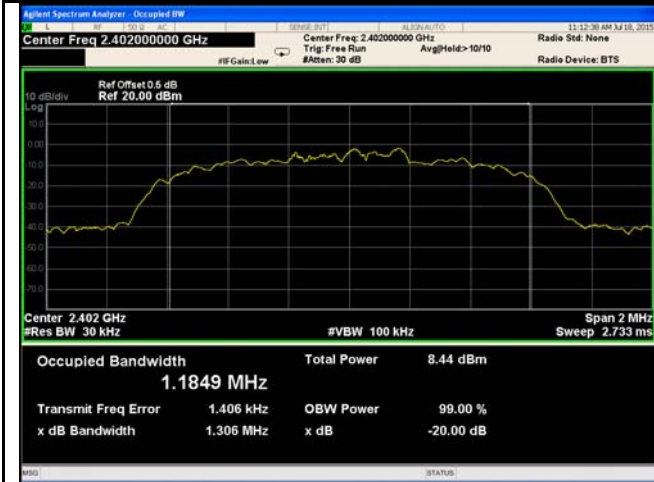
$\pi/4$ DPSK - Low Channel



$\pi/4$ DQPSK - Middle Channel



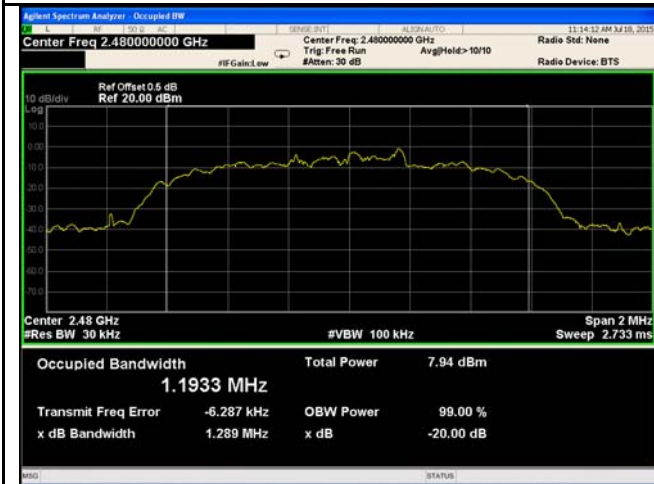
$\pi/4$ DQPSK - High Channel



8DPSK - Low Channel



8DPSK - Middle Channel



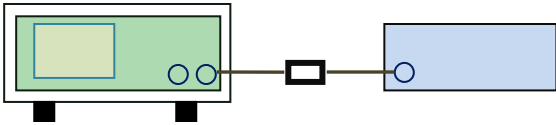
8DPSK - High Channel

6.4 Peak Output Power

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	July 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (2)	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt	<input checked="" type="checkbox"/>
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt	<input type="checkbox"/>
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.	<input checked="" type="checkbox"/>
	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt	<input type="checkbox"/>
	e)	FHSS in 902-928MHz with ≥ 25 & < 50 channels: ≤ 0.25 Watt	<input type="checkbox"/>
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz: ≤ 1 Watt	<input type="checkbox"/>

Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
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Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel - RBW $>$ the 20 dB bandwidth of the emission being measured - VBW \geq RBW - Sweep = auto - Detector function = peak - Trace = max hold
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	<ul style="list-style-type: none"> - Allow the trace to stabilize. - Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power (see the note above regarding external attenuation and cable loss). The limit is specified in one of the subparagraphs of this Section. Submit this plot. A peak responding power meter may be used instead of a spectrum analyzer.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A
 Test Plot Yes (See below) N/A

Peak Output Power measurement result

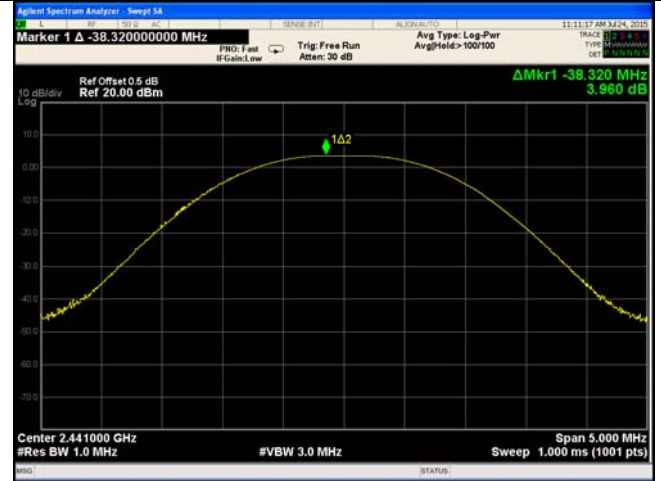
Type	Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	3.445	125	Pass
		Mid	2441	3.960	125	Pass
		High	2480	3.906	125	Pass
	$\pi/4$ DQPSK	Low	2402	2.217	125	Pass
		Mid	2441	2.821	125	Pass
		High	2480	3.045	125	Pass
	8-DPSK	Low	2402	2.305	125	Pass
		Mid	2441	2.953	125	Pass
		High	2480	3.189	125	Pass

Test Plots

Output Power measurement result



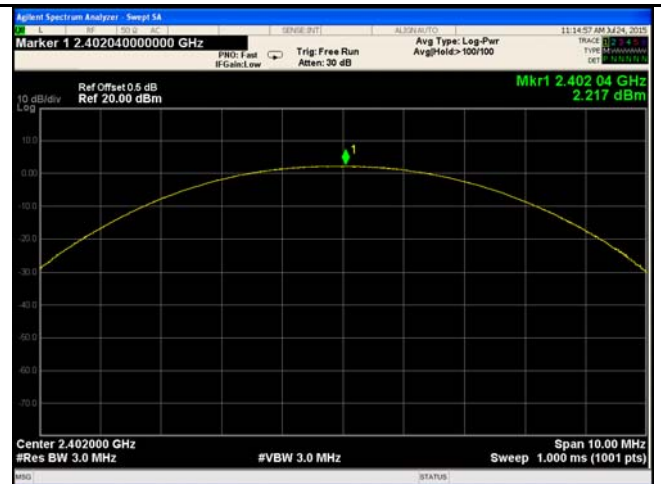
GFSK Output power - Low CH 2402



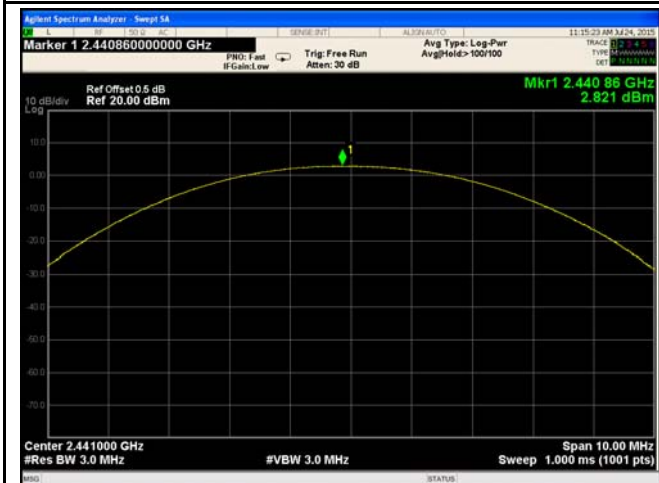
GFSK Output power - Mid CH 2441



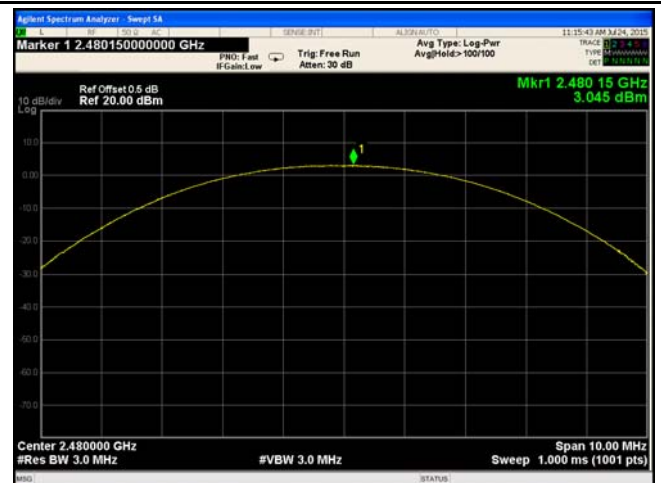
GFSK Output power - High CH 2480



$\pi/4$ DQPSK Output power - Low CH 2402



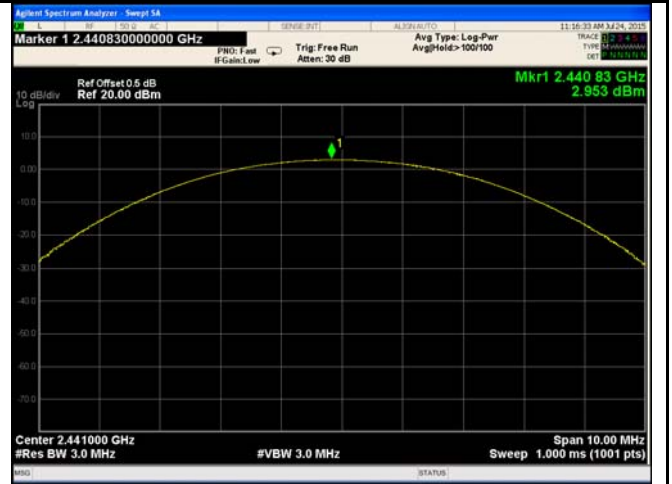
$\pi/4$ DQPSK Output power - Mid CH 2441



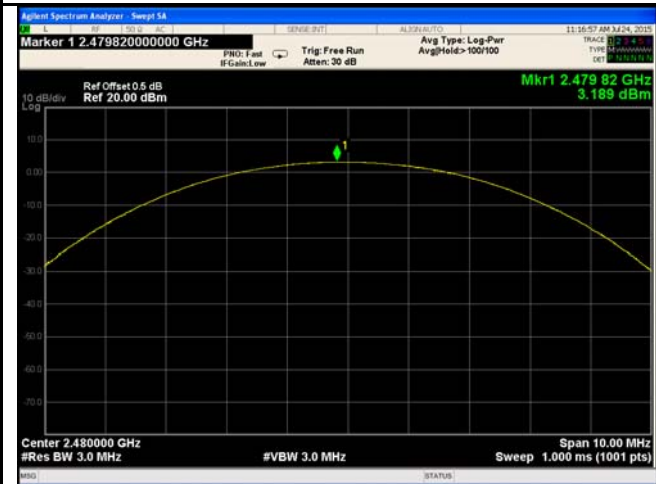
$\pi/4$ DQPSK Output power - High CH 2480



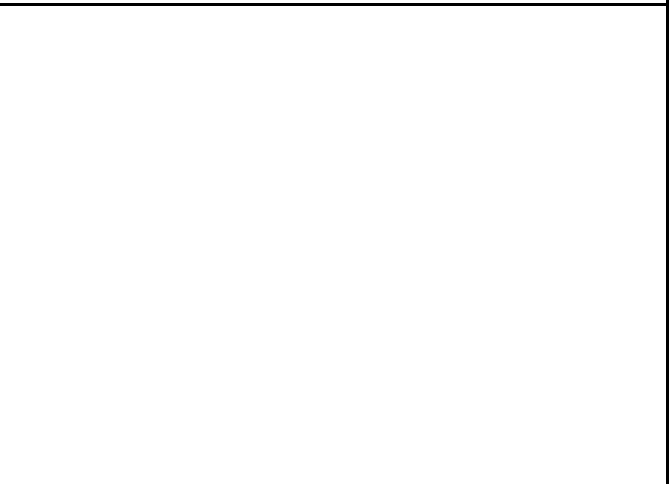
8DPSK Output power - Low CH 2402



8DPSK Output power - Mid CH 2441



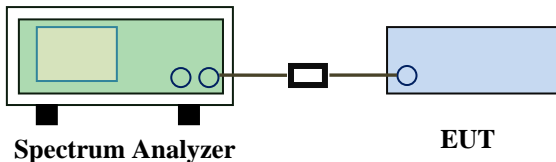
8DPSK Output power - High CH 2480



6.5 Number of Hopping Channel

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	July 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	FHSS in 2400-2483.5MHz ≥ 15 channels	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>		
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. <u>Use the following spectrum analyzer settings:</u> The EUT must have its hopping function enabled.</p> <ul style="list-style-type: none"> - Span = the frequency band of operation - RBW ≥ 1% of the span - VBW ≥ RBW - Sweep = auto - Detector function = peak - Trace = max hold - Allow trace to fully stabilize. - It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s). 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A
 Test Plot Yes (See below) N/A

Number of Hopping Channel measurement result

Type	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number of Hopping Channel	GFSK	2400-2483.5	79	15
	$\pi/4$ DQPSK	2400-2483.5	79	15
	8-DPSK	2400-2483.5	79	15

Test Plots

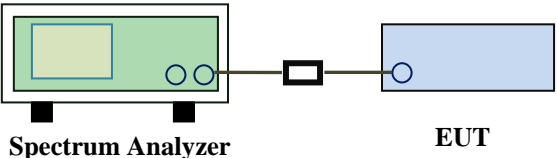
Number of Hopping Channels measurement result



6.6 Time of Occupancy (Dwell Time)

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	July 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	Dwell Time < 0.4s	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>		
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. <u>Use the following spectrum analyzer</u></p> <ul style="list-style-type: none"> - Span = zero span, centered on a hopping channel - RBW = 1 MHz - VBW ≥ RBW - Sweep = as necessary to capture the entire dwell time per hopping channel - Detector function = peak - Trace = max hold - use the marker-delta function to determine the dwell time 		
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

Test Plot Yes (See below) N/A

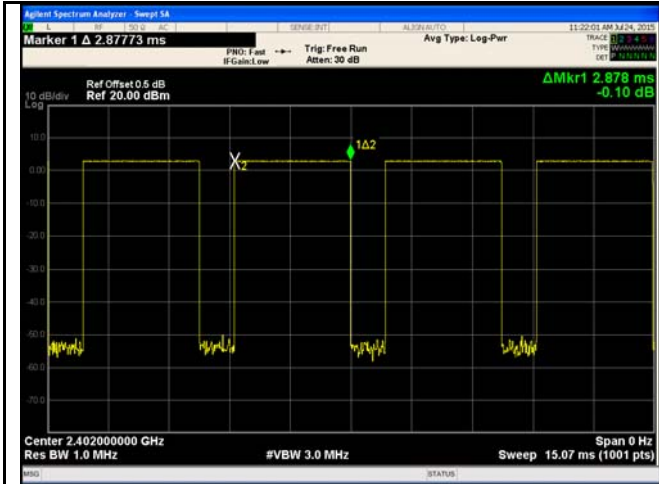
Dwell Time measurement result

Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.878	306.987	400	Pass
		Mid	2.863	305.387	400	Pass
		High	2.863	305.387	400	Pass
	π /4 DQPSK	Low	2.863	305.387	400	Pass
		Mid	2.878	306.987	400	Pass
		High	2.863	305.387	400	Pass
	8-DPSK	Low	2.863	305.387	400	Pass
		Mid	2.878	306.987	400	Pass
		High	2.863	305.387	400	Pass

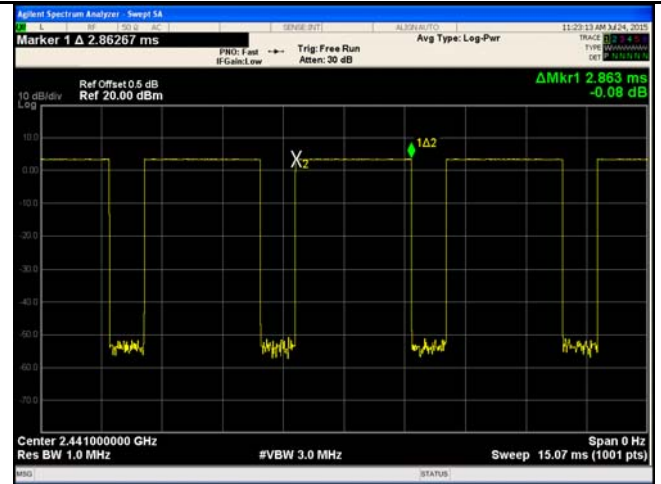
Note: Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6

Test Plots

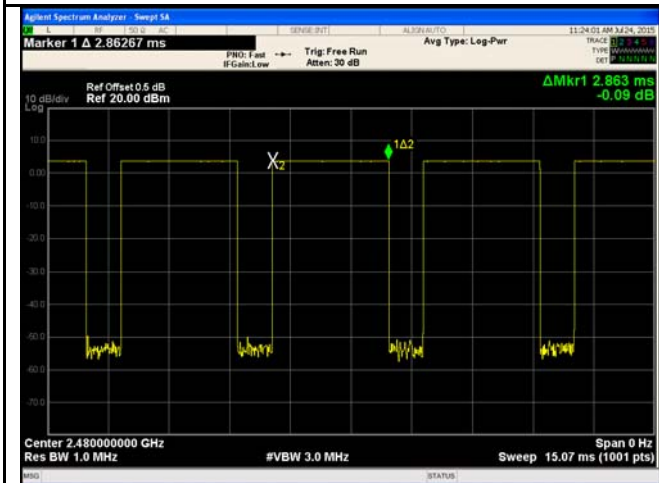
Dwell Time measurement result



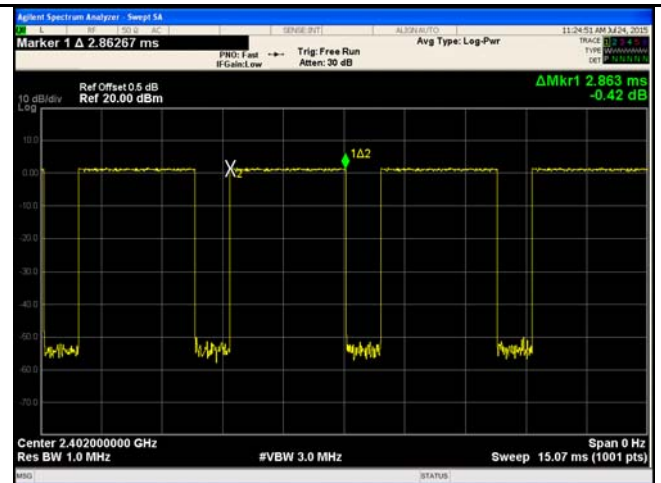
GFSK - Low CH 2402



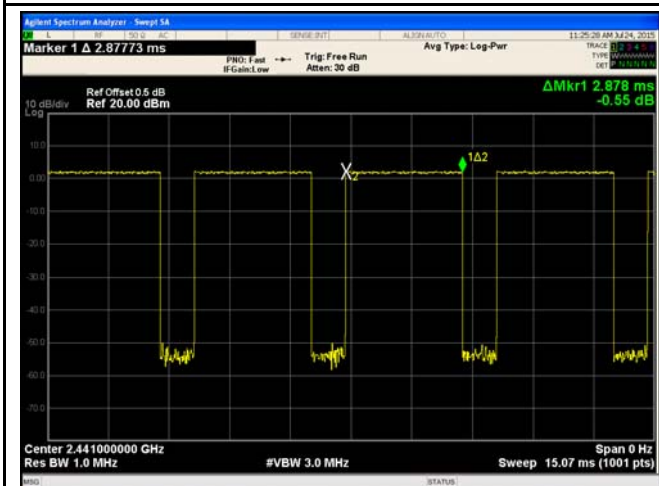
GFSK - Mid CH 2441



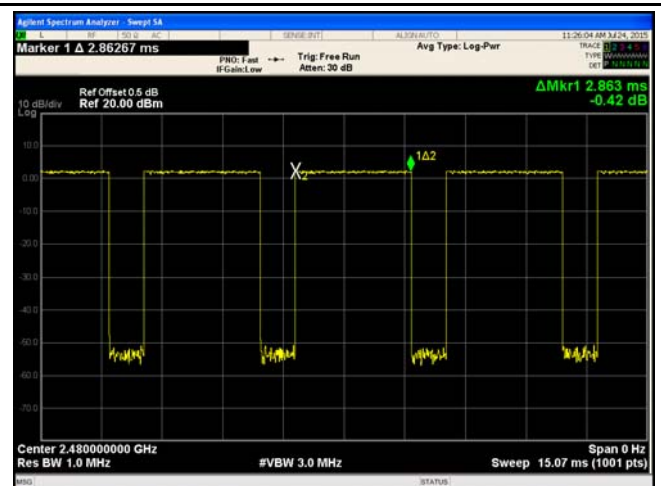
GFDK - High CH 2480



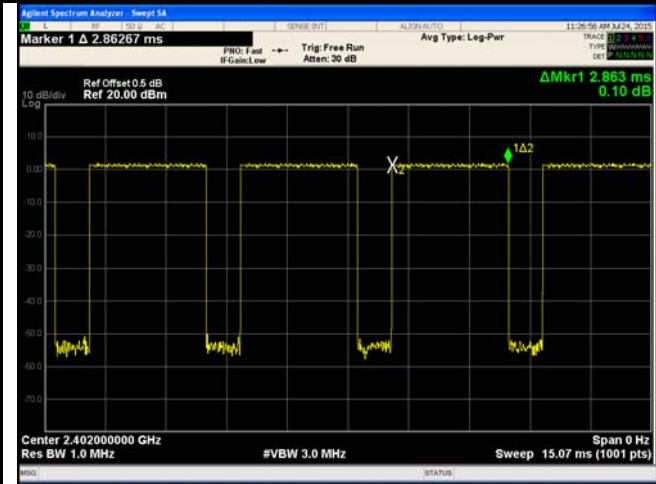
$\pi/4$ DQPSK - Low CH 2402



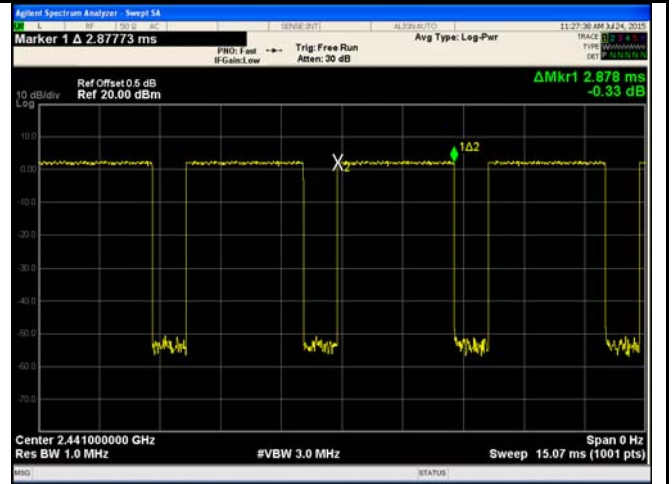
$\pi/4$ DQPSK - Mid CH 2441



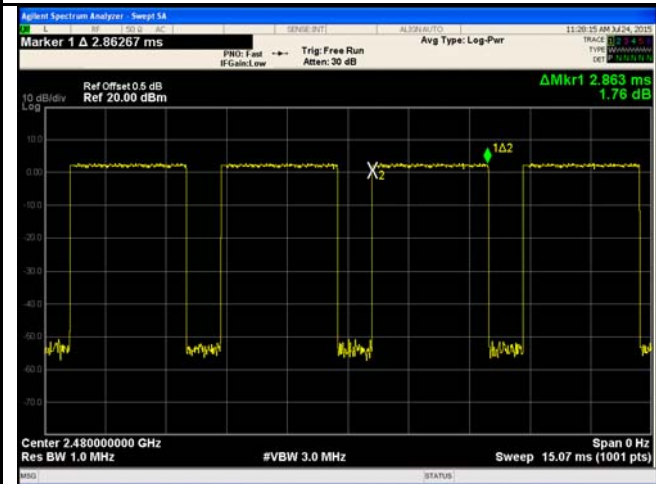
$\pi/4$ DQPSK - High CH 2480



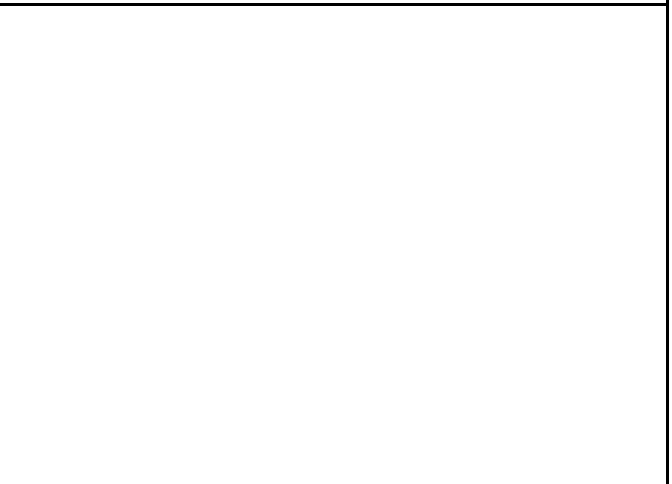
8DPSK - Low CH 2402



8DPSK - Mid CH 2441



8DPSK - High CH 2480



6.7 Band Edge

Temperature	23°C
Relative Humidity	55%
Atmospheric Pressure	1022mbar
Test date :	July 22, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.	<input checked="" type="checkbox"/>

Test Setup	<p>The diagram illustrates the test setup. A Turn Table is placed on a stand, with EUT & Support Units on top. The height from the Ground Plane to the EUT is indicated as 0.8/1.5m. An Ant. Tower is positioned 3m away from the Turn Table. The Ant. Tower has a 1-4m Variable section. A Test Receiver is connected to the Ant. Tower.</p>
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Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only</p> <ul style="list-style-type: none"> - 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. - 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range,
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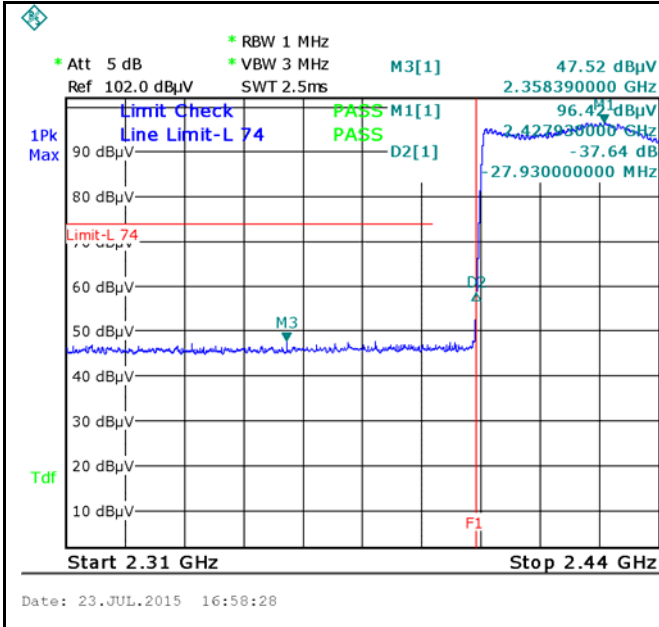
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	<p>and make sure the instrument is operated in its linear range.</p> <ul style="list-style-type: none"> - 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below: <ul style="list-style-type: none"> a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. - 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. - 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A
 Test Plot Yes (See below) N/A

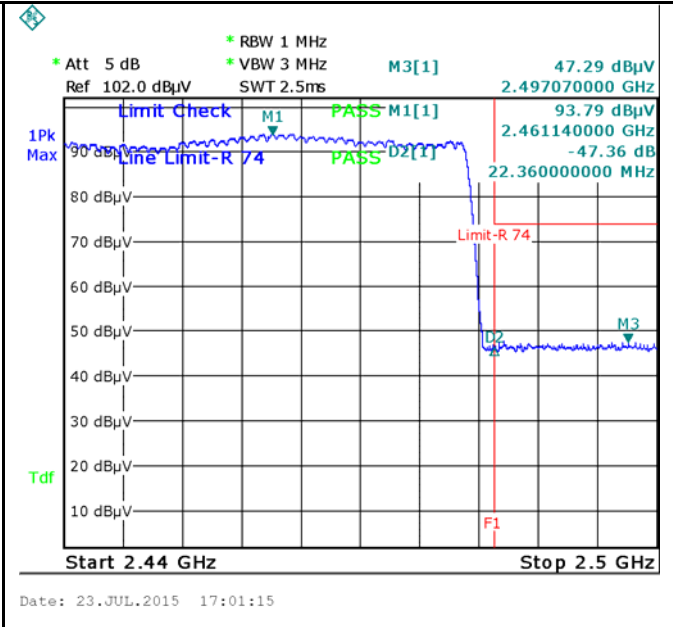
Test Plots

GFSK Mode:



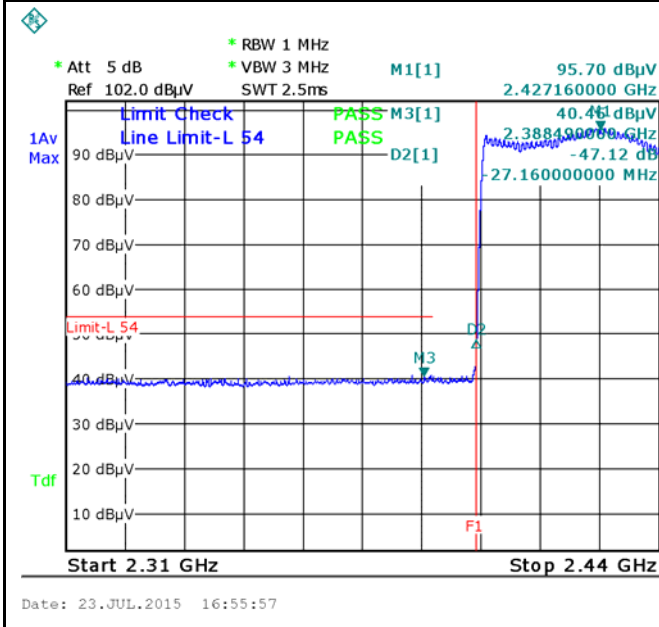
GFSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



GFSK-Hopping Right Side-PK

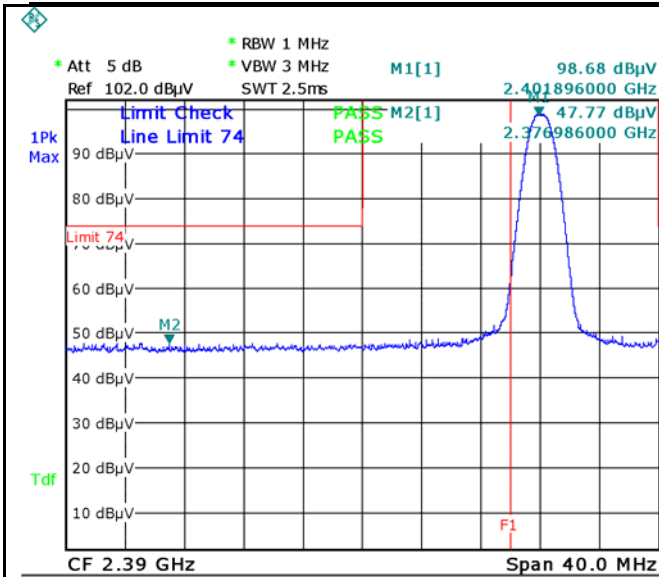
Note: F1 is frequency 2483.5MHz



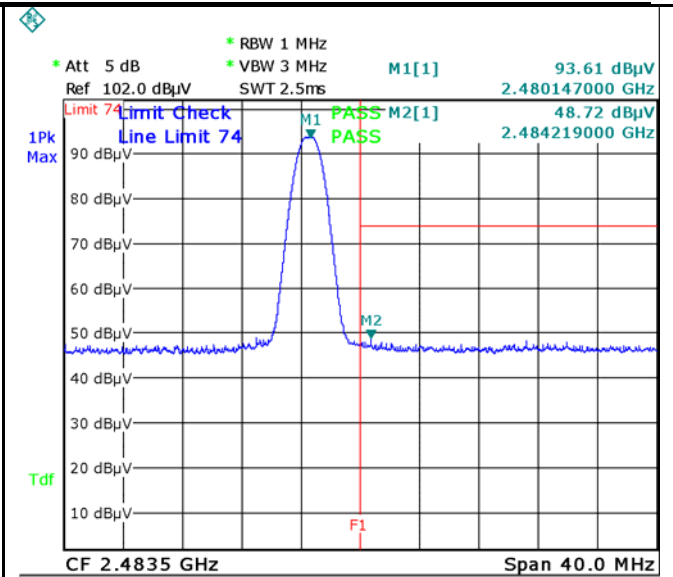
GFSK-Hopping Left Side-AV

Note: (no need if PK value less than the AV limit)

GFSK-Hopping Right Side-AV



Date: 22.JUL.2015 17:18:50



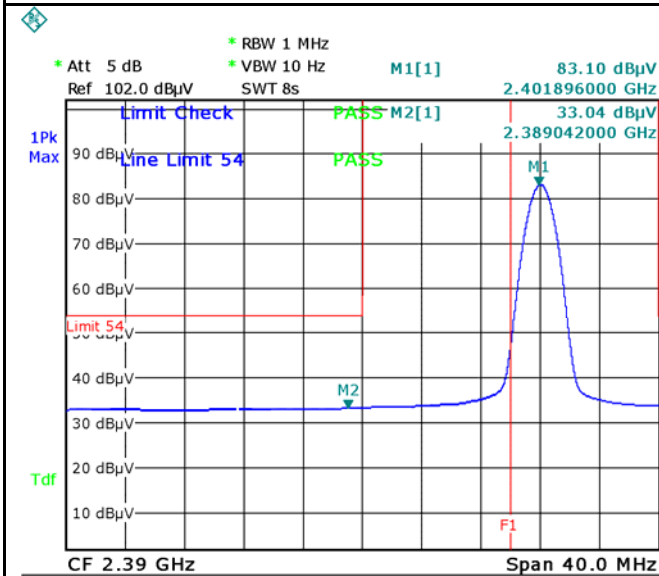
Date: 22.JUL.2015 17:25:05

GFSK-Left Side-PK

Note: F1 is frequency 2400MHz

GFSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



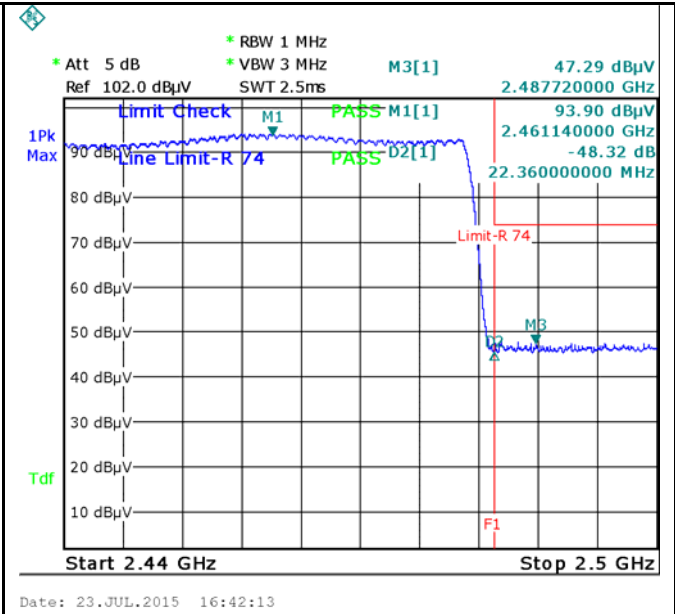
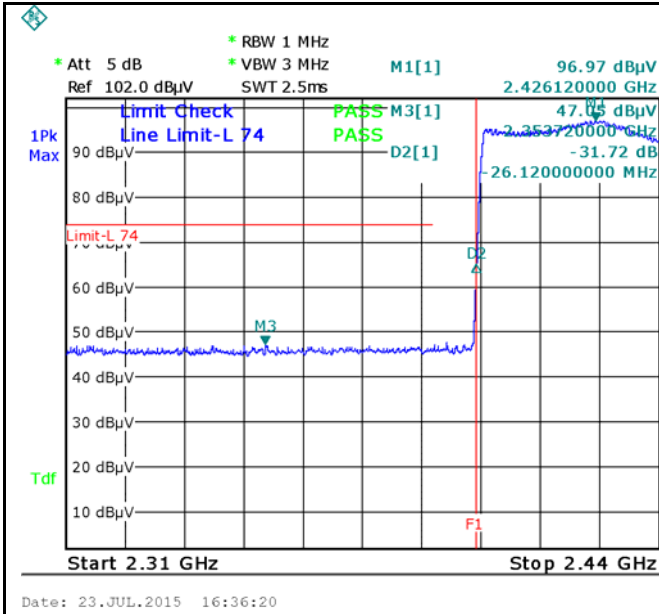
Date: 22.JUL.2015 17:20:10

Note: (no need if PK value less than the AV limit)

GFSK-Left Side-AV

GFSK-Right Side-AV

π /4 DQPSK Mode:

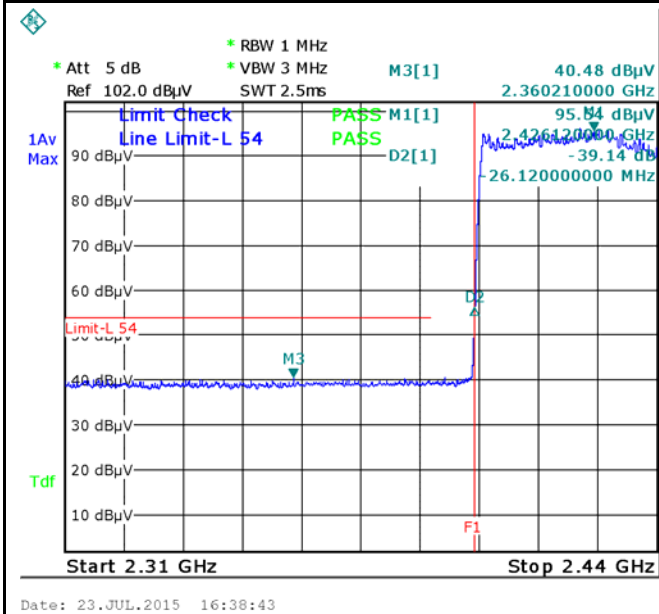


π /4 DQPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz

π /4 DQPSK-Hopping Right Side-PK

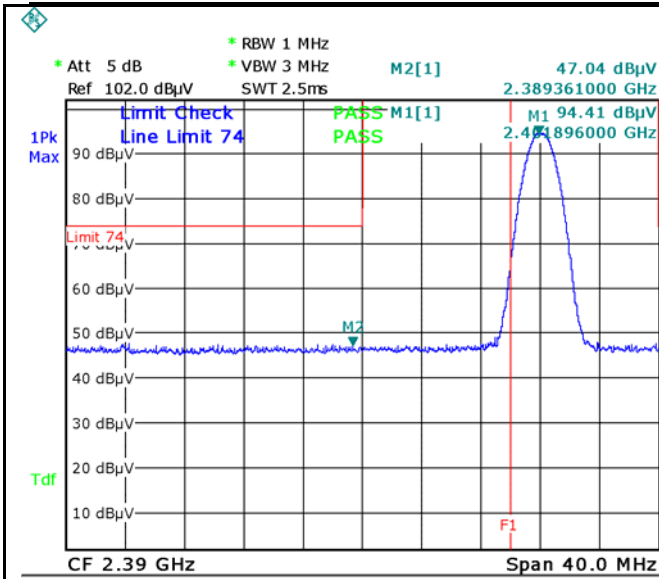
Note: F1 is frequency 2483.5MHz



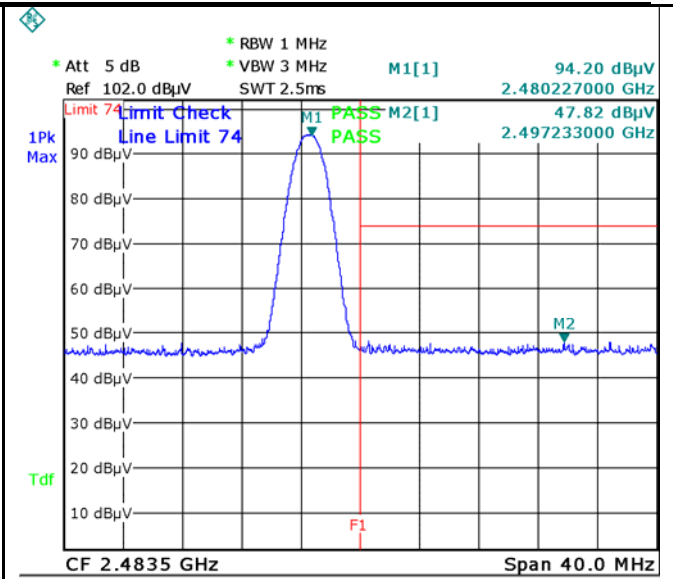
Note: (no need if PK value less than the AV limit)

π /4 DQPSK-Hopping Left-AV

π /4 DQPSK-Hopping Right-AV



Date: 22.JUL.2015 17:49:15



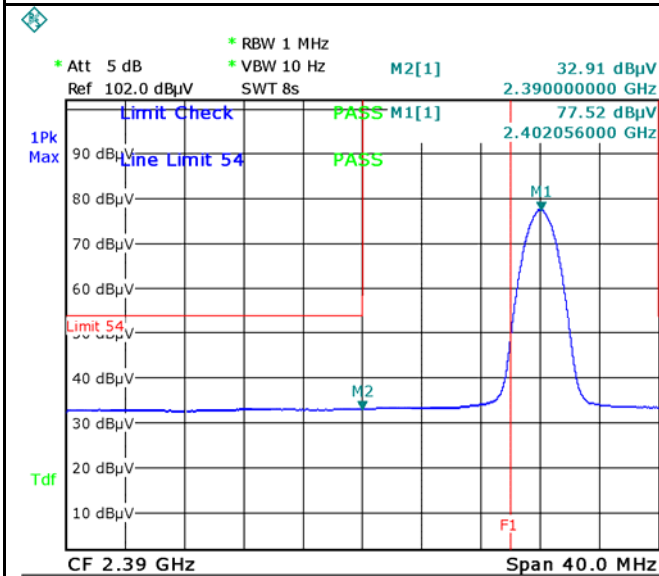
Date: 22.JUL.2015 17:45:10

π / 4 DQPSK-Left Side-PK

Note: F1 is frequency 2400MHz

π / 4 DQPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



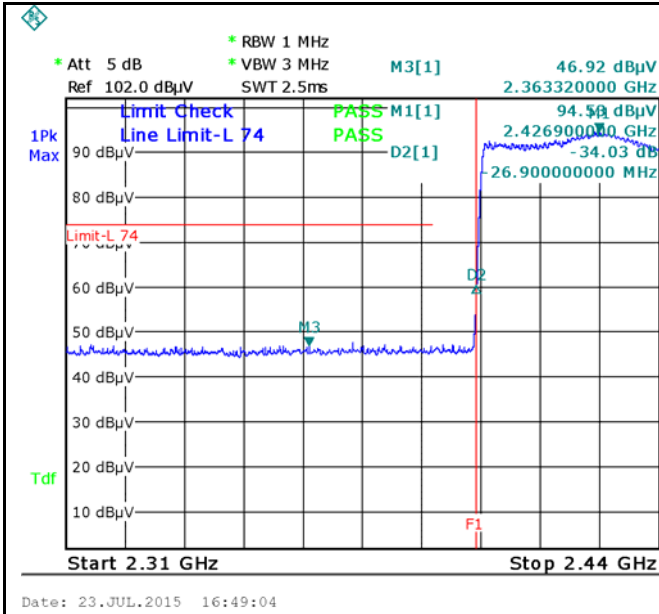
Date: 22.JUL.2015 17:50:57

Note: (no need if PK value less than the AV limit)

π / 4 DQPSK-Left Side-AV

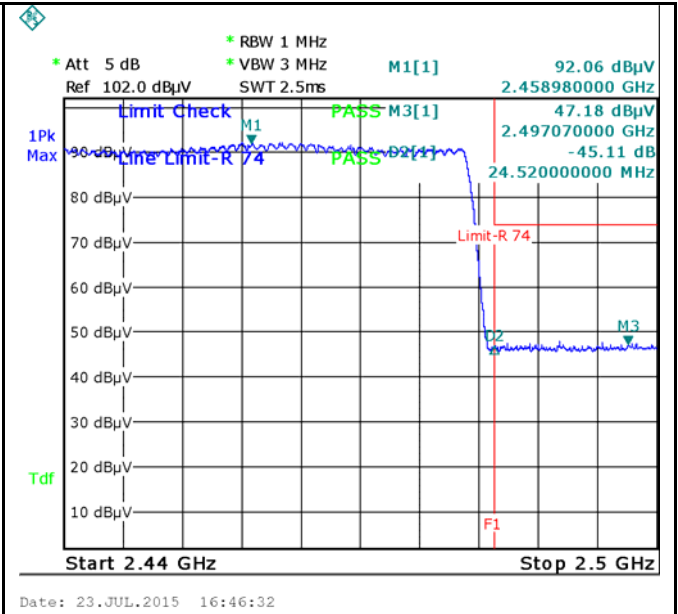
π / 4 DQPSK-Right Side-AV

8-DPSK Mode:



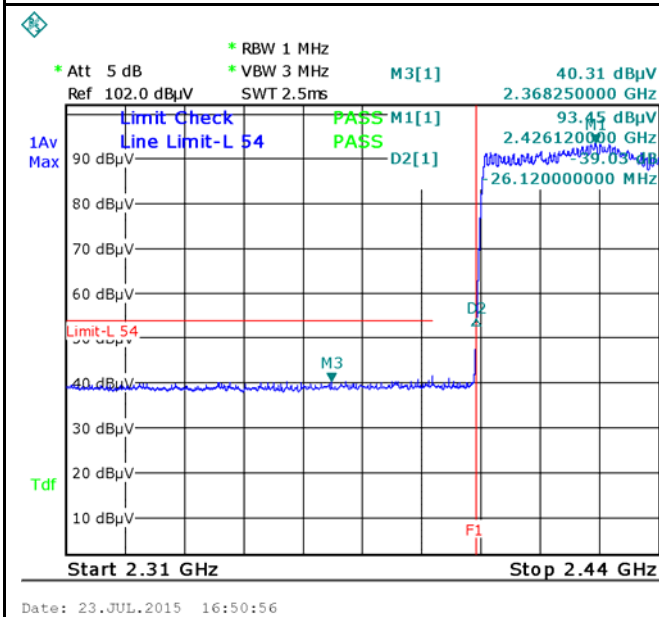
8DPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



8DPSK-Hopping Right Side-PK

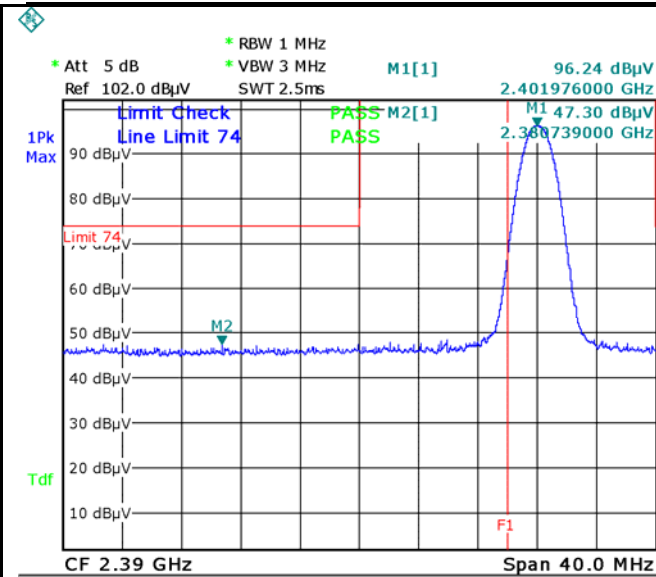
Note: F1 is frequency 2483.5MHz



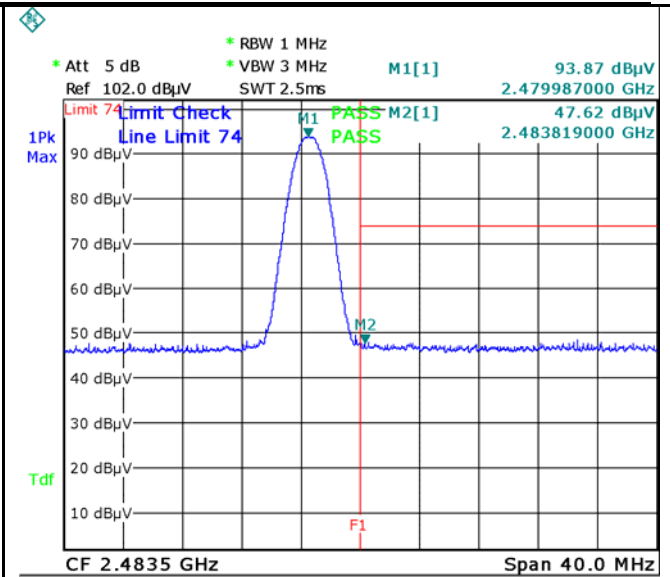
8DPSK-Hopping Left-AV

Note: (no need if PK value less than the AV limit)

8DPSK-Hopping Right-AV



Date: 22.JUL.2015 17:55:15



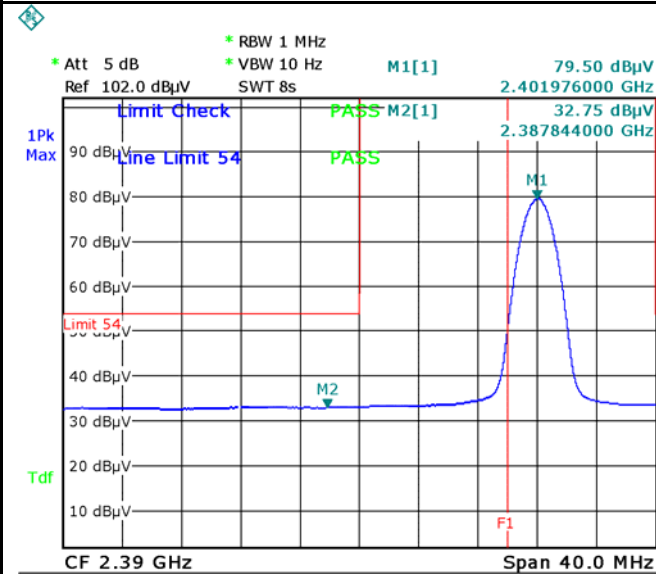
Date: 22.JUL.2015 18:00:14

8DPSK-Left Side-PK

Note: F1 is frequency 2400MHz

8DPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



Date: 22.JUL.2015 17:53:52

Note: (no need if PK value less than the AV limit)

8DPSK-Left Side-AV

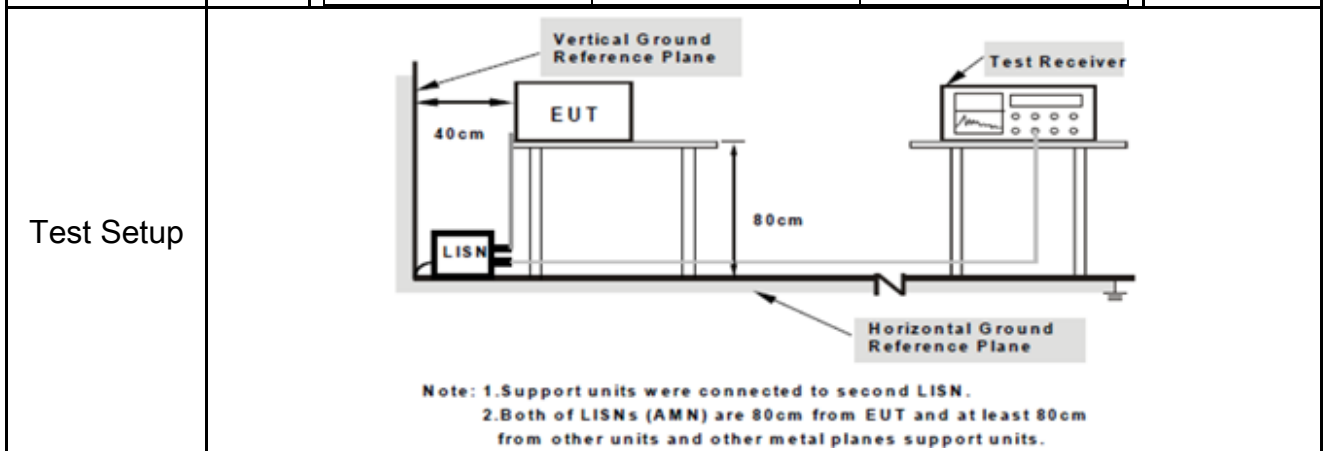
8DPSK-Right Side-AV

6.8 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	July 27, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.207, RSS210 (A8.1)	a)	For Low-power radio-frequency devices 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.	<input checked="" type="checkbox"/>														
		<table border="1"> <thead> <tr> <th rowspan="2">Frequency ranges (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>QP</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 ~ 0.5</td> <td>66 – 56</td> <td>56 – 46</td> </tr> <tr> <td>0.5 ~ 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 ~ 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>		Frequency ranges (MHz)	Limit (dB μ V)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50
		Frequency ranges (MHz)			Limit (dB μ V)												
				QP	Average												
0.15 ~ 0.5	66 – 56	56 – 46															
0.5 ~ 5	56	46															
5 ~ 30	60	50															



Procedure	<ol style="list-style-type: none"> The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
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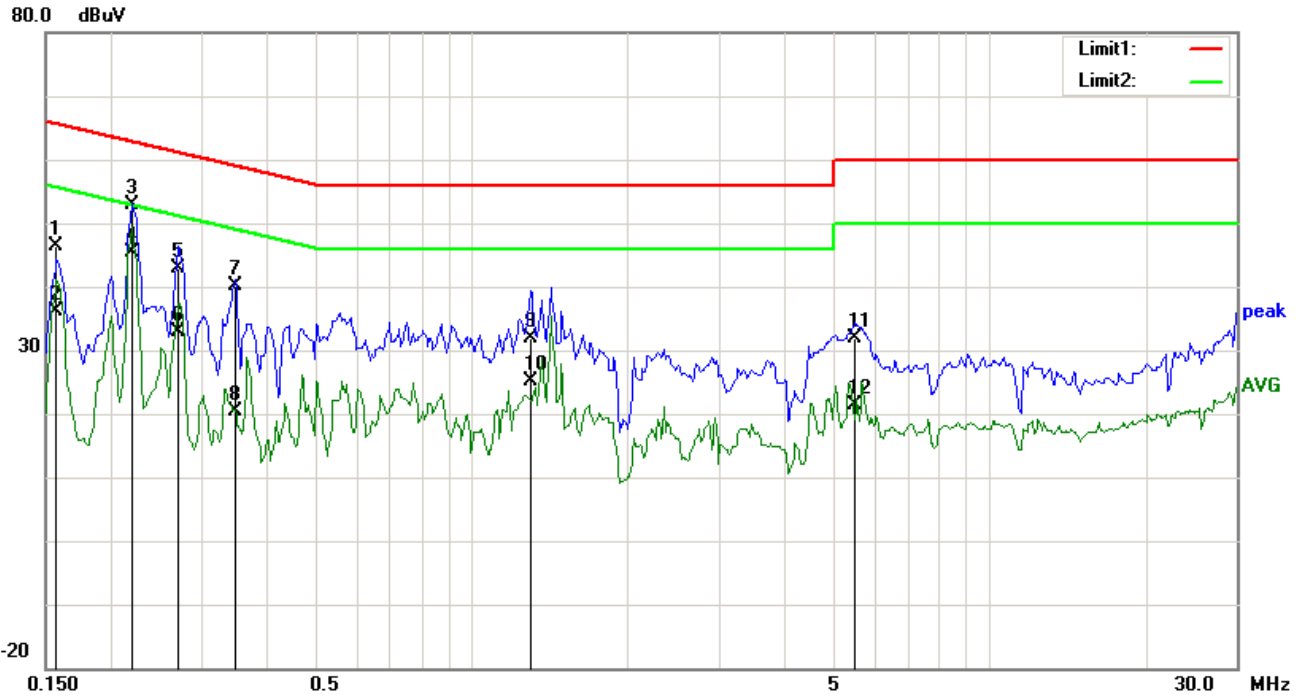
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	<p>coaxial cable.</p> <ol style="list-style-type: none"> 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode:	Bluetooth Mode
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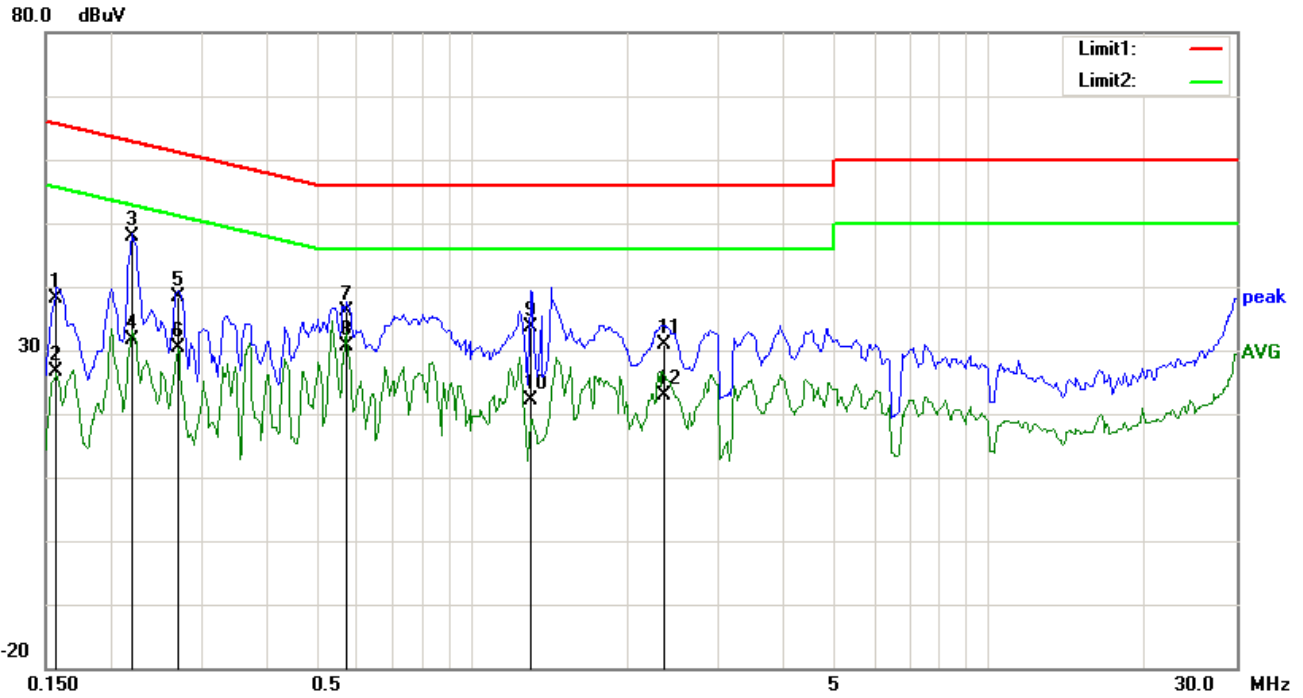


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Comment
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)	
1	L1	0.1578	33.31	QP	13.17	46.48	65.58	-19.10	
2	L1	0.1578	22.88	AVG	13.17	36.05	55.58	-19.53	
3	L1	0.2203	39.82	QP	12.94	52.76	62.81	-10.05	
4	L1	0.2203	32.43	AVG	12.94	45.37	52.81	-7.44	
5	L1	0.2711	30.09	QP	12.75	42.84	61.08	-18.24	
6	L1	0.2711	20.17	AVG	12.75	32.92	51.08	-18.16	
7	L1	0.3492	27.67	QP	12.46	40.13	58.98	-18.85	
8	L1	0.3492	8.00	AVG	12.46	20.46	48.98	-28.52	
9	L1	1.3023	20.51	QP	11.40	31.91	56.00	-24.09	
10	L1	1.3023	13.78	AVG	11.40	25.18	46.00	-20.82	
11	L1	5.4766	20.39	QP	11.57	31.96	60.00	-28.04	
12	L1	5.4766	9.84	AVG	11.57	21.41	50.00	-28.59	

Test Mode:	Bluetooth Mode
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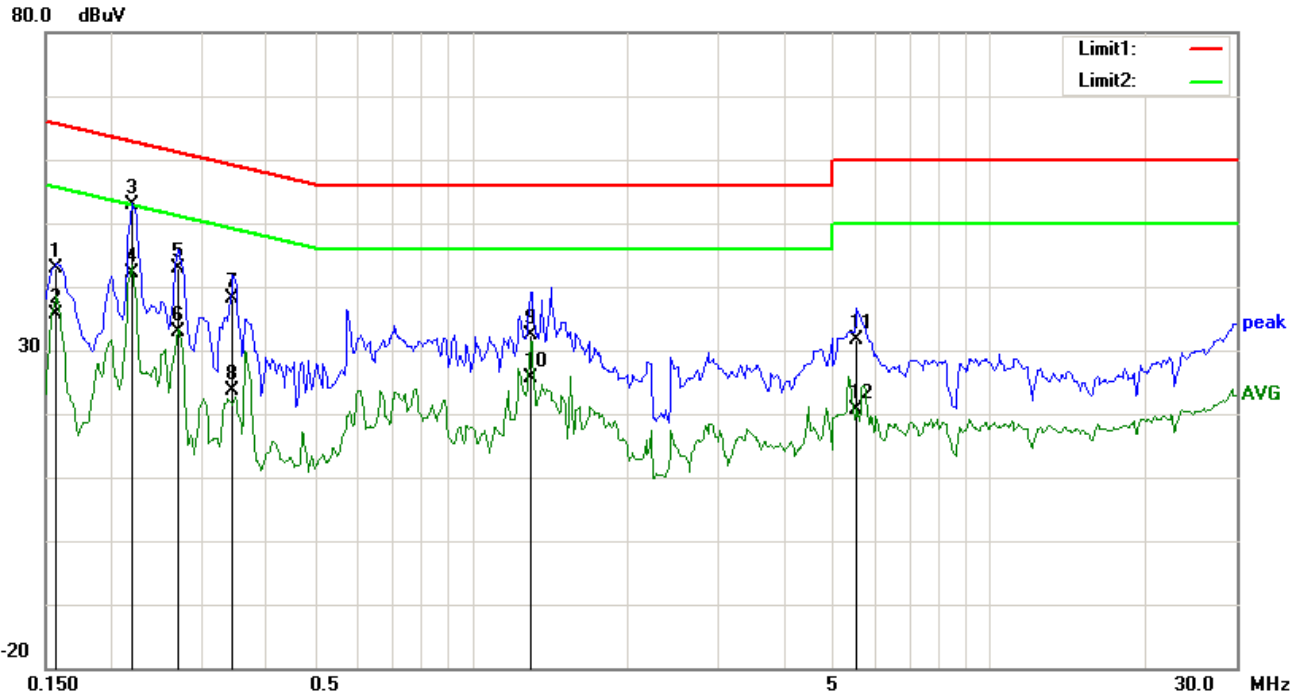


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Comment
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)	
1	N	0.1578	25.03	QP	13.17	38.20	65.58	-27.38	
2	N	0.1578	13.36	AVG	13.17	26.53	55.58	-29.05	
3	N	0.2203	35.02	QP	12.94	47.96	62.81	-14.85	
4	N	0.2203	18.58	AVG	12.94	31.52	52.81	-21.29	
5	N	0.2711	25.52	QP	12.75	38.27	61.08	-22.81	
6	N	0.2711	17.56	AVG	12.75	30.31	51.08	-20.77	
7	N	0.5719	24.25	QP	11.83	36.08	56.00	-19.92	
8	N	0.5719	18.69	AVG	11.83	30.52	46.00	-15.48	
9	N	1.3023	22.10	QP	11.44	33.54	56.00	-22.46	
10	N	1.3023	10.73	AVG	11.44	22.17	46.00	-23.83	
11	N	2.3460	19.31	QP	11.57	30.88	56.00	-25.12	
12	N	2.3460	11.26	AVG	11.57	22.83	46.00	-23.17	

Test Mode:	Bluetooth Mode
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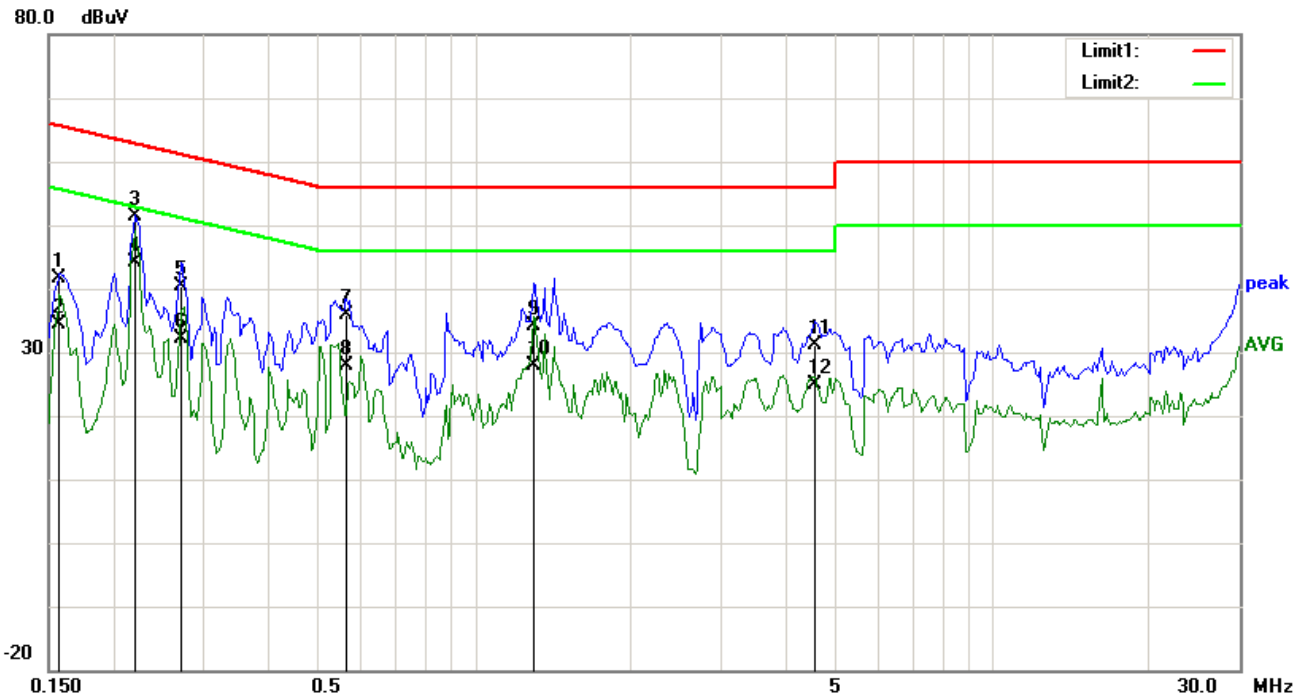


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
1	L1	0.1578	29.73	QP	13.17	42.90	65.58	-22.68	
2	L1	0.1578	22.54	AVG	13.17	35.71	55.58	-19.87	
3	L1	0.2203	39.86	QP	12.94	52.80	62.81	-10.01	
4	L1	0.2203	29.21	AVG	12.94	42.15	52.81	-10.66	
5	L1	0.2711	30.03	QP	12.75	42.78	61.08	-18.30	
6	L1	0.2711	20.12	AVG	12.75	32.87	51.08	-18.21	
7	L1	0.3453	25.70	QP	12.47	38.17	59.07	-20.90	
8	L1	0.3453	11.16	AVG	12.47	23.63	49.07	-25.44	
9	L1	1.3023	20.91	QP	11.40	32.31	56.00	-23.69	
10	L1	1.3023	14.20	AVG	11.40	25.60	46.00	-20.40	
11	L1	5.5391	20.07	QP	11.59	31.66	60.00	-28.34	
12	L1	5.5391	9.09	AVG	11.59	20.68	50.00	-29.32	

Test Mode:	Bluetooth Mode
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Test Data

Phase Neutral Plot at 240Vac, 60Hz

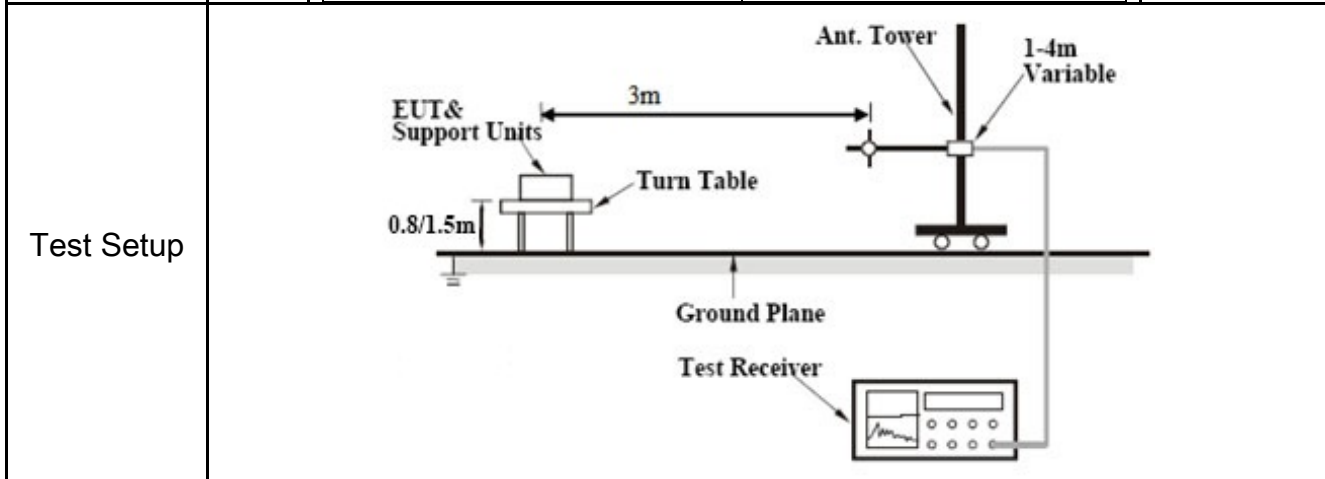
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Comment
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)	
1	N	0.1578	28.53	QP	13.17	41.70	65.58	-23.88	
2	N	0.1578	21.09	AVG	13.17	34.26	55.58	-21.32	
3	N	0.2203	38.34	QP	12.94	51.28	62.81	-11.53	
4	N	0.2203	31.22	AVG	12.94	44.16	52.81	-8.65	
5	N	0.2711	27.64	QP	12.75	40.39	61.08	-20.69	
6	N	0.2711	19.50	AVG	12.75	32.25	51.08	-18.83	
7	N	0.5641	24.05	QP	11.84	35.89	56.00	-20.11	
8	N	0.5641	16.03	AVG	11.84	27.87	46.00	-18.13	
9	N	1.3023	22.77	QP	11.44	34.21	56.00	-21.79	
10	N	1.3023	16.53	AVG	11.44	27.97	46.00	-18.03	
11	N	4.5273	19.38	QP	11.84	31.22	56.00	-24.78	
12	N	4.5273	12.94	AVG	11.84	24.78	46.00	-21.22	

6.9 Radiated Spurious Emissions

Temperature	25°C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	July 24, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.205, §15.209, §15.247(d)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength ($\mu\text{V}/\text{m}$)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	<input checked="" type="checkbox"/>
Frequency range (MHz)	Field Strength ($\mu\text{V}/\text{m}$)												
30 – 88	100												
88 – 216	150												
216 960	200												
Above 960	500												



Procedure	<ol style="list-style-type: none"> 1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
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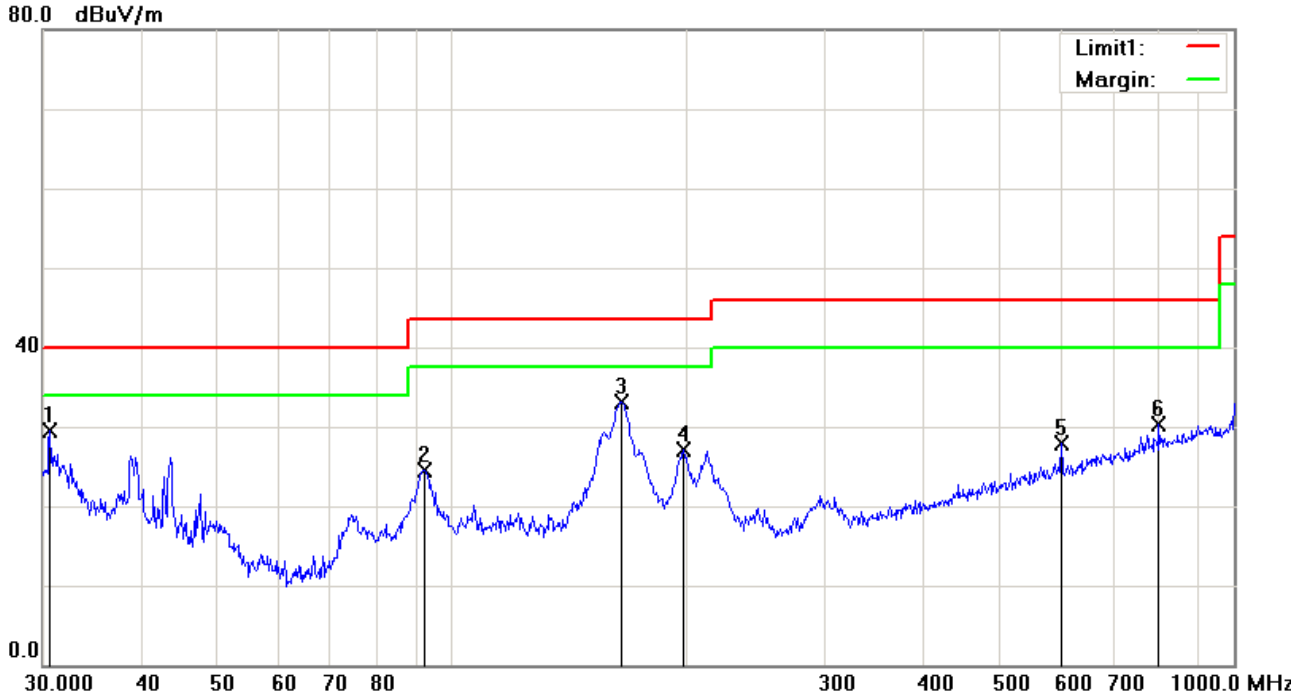
	<p>b. The EUT was then rotated to the direction that gave the maximum emission.</p> <p>c. Finally, the antenna height was adjusted to the height that gave the maximum emission.</p> <p>3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz.</p> <p>4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz.</p> <p>5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data Yes N/A

Test Plot Yes (See below) N/A

Test Mode: Bluetooth Mode

Below 1GHz



Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ()	Comment
1	H	30.6379	30.24	peak	-0.73	29.51	40.00	-10.49	187	0	
2	H	92.4624	37.35	peak	-12.76	24.59	43.50	-18.91	200	171	
3	H	164.9075	41.81	peak	-8.68	33.13	43.50	-10.37	200	92	
4	H	197.8928	35.92	peak	-8.85	27.07	43.50	-16.43	100	229	
5	H	601.4265	27.79	peak	0.03	27.82	46.00	-18.18	100	203	
6	H	801.7863	27.07	peak	3.23	30.30	46.00	-15.70	100	259	

Below 1GHz

80.0 dBuV/m



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ()	Comment
1	V	30.9619	35.17	peak	-0.96	34.21	40.00	-5.79	100	216	
2	V	42.8998	43.28	peak	-9.53	33.75	40.00	-6.25	100	0	
3	V	49.7068	44.37	peak	-13.04	31.33	40.00	-8.67	100	273	
4	V	91.4949	42.39	peak	-13.00	29.39	43.50	-14.11	100	190	
5	V	166.0680	35.84	peak	-8.78	27.06	43.50	-16.44	200	184	
6	V	801.7863	29.70	peak	3.23	32.93	46.00	-13.07	100	183	

Test Mode:	Transmitting Mode
-------------------	--------------------------

Mode: GFSK (Worst Case)

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4804	40.03	AV	V	33.83	6.86	31.72	49	54	-5
4804	39.79	AV	H	33.83	6.86	31.72	48.76	54	-5.24
4804	46.11	PK	V	33.83	6.86	31.72	55.08	74	-18.92
4804	44.67	PK	H	33.83	6.86	31.72	53.64	74	-20.36

Middle Channel (2441 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4882	39.89	AV	V	33.86	6.82	31.82	48.75	54	-5.25
4882	39.71	AV	H	33.86	6.82	31.82	48.57	54	-5.43
4882	46.23	PK	V	33.86	6.82	31.82	55.09	74	-18.91
4882	45.03	PK	H	33.86	6.82	31.82	53.89	74	-20.11

High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4960	40.32	AV	V	33.9	6.76	31.92	49.06	54	-4.94
4960	39.95	AV	H	33.9	6.76	31.92	48.69	54	-5.31
4960	46.67	PK	V	33.9	6.76	31.92	55.41	74	-18.59
4960	45.19	PK	H	33.9	6.76	31.92	53.93	74	-20.07

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
LISN	ISN T800	34373	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<input checked="" type="checkbox"/>
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	<input checked="" type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	09/02/2014	09/01/2015	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	<input checked="" type="checkbox"/>

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



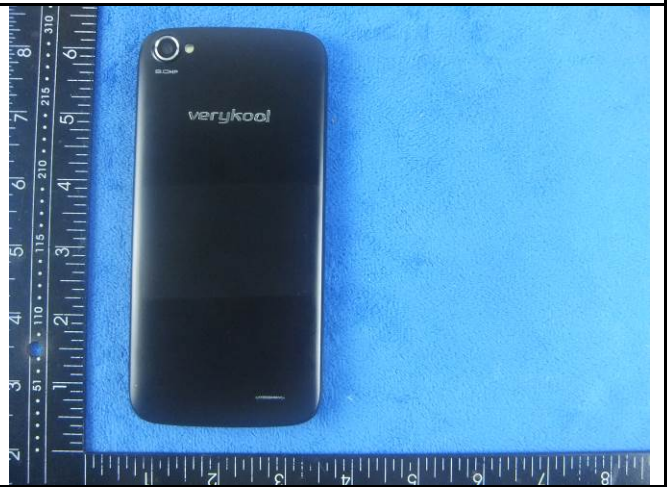
Whole Package - Top View



Adapter - Front View



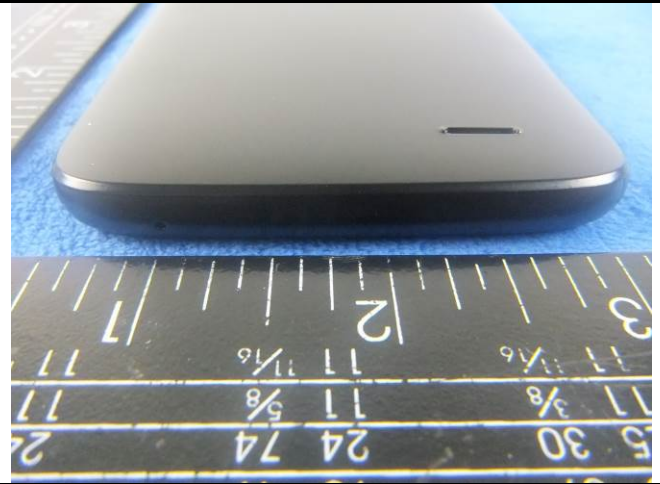
EUT - Front View



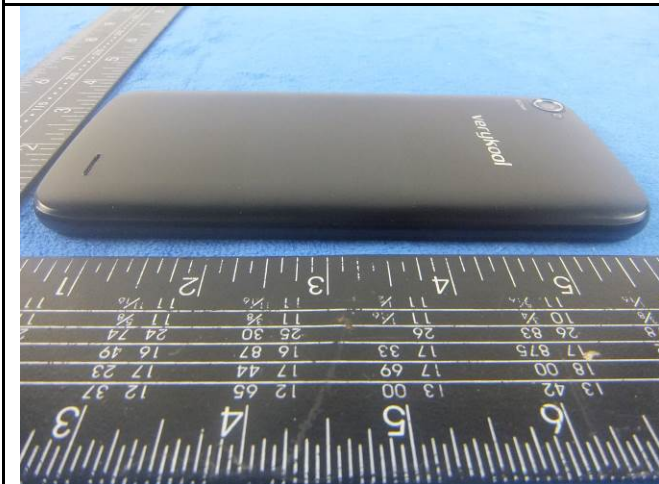
EUT - Rear View



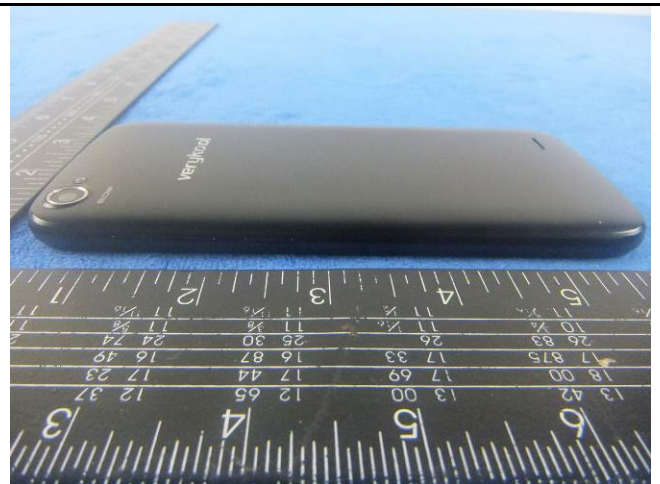
EUT - Top View



EUT - Bottom View



EUT - Left View



EUT - Right View

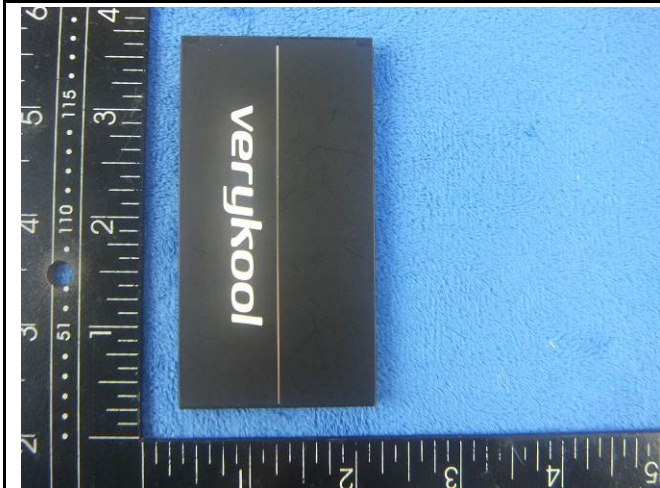
Annex B.ii. Photograph: EUT Internal Photo



Cover Off - Top View 1



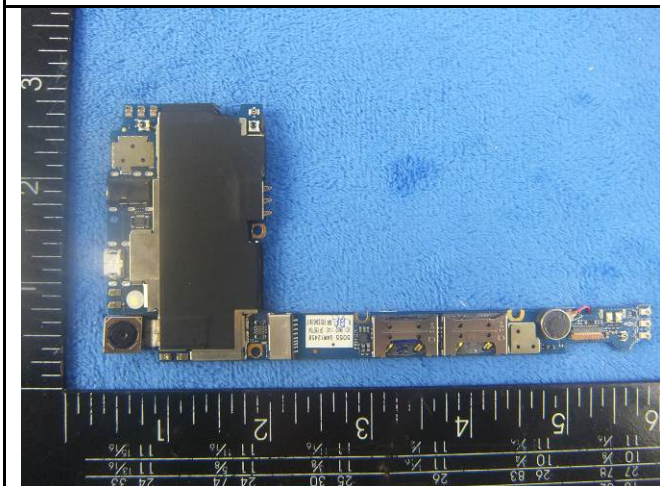
Cover Off - Top View 2



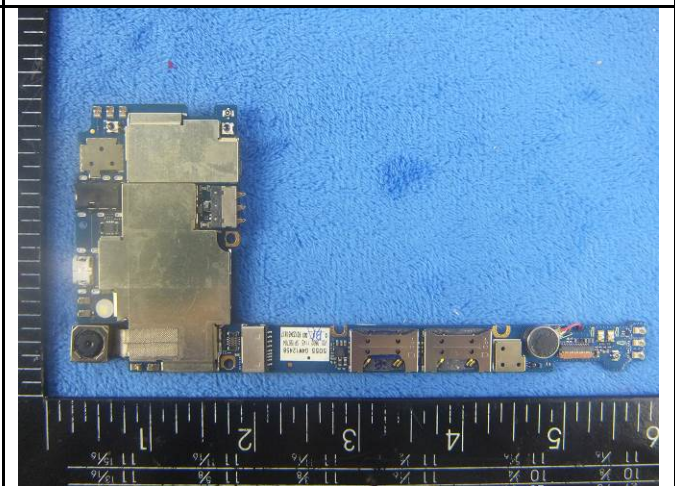
Battery - Top View



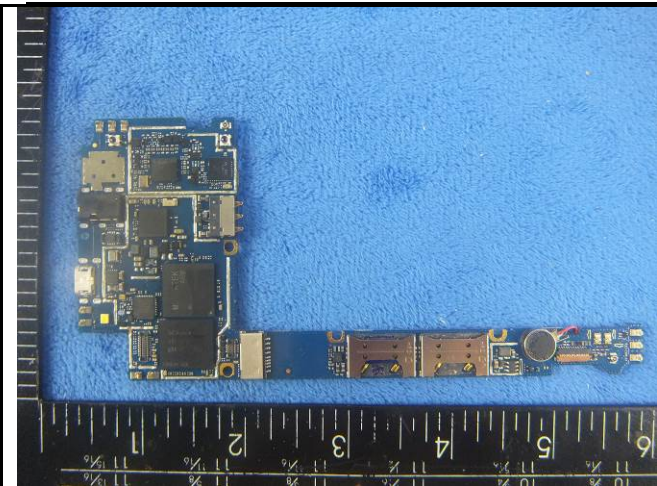
Battery - Bottom View



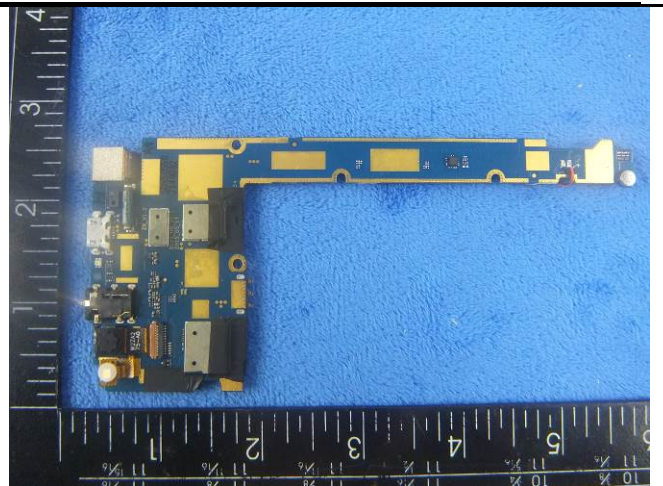
Mainbard with Shielding - Front View 1



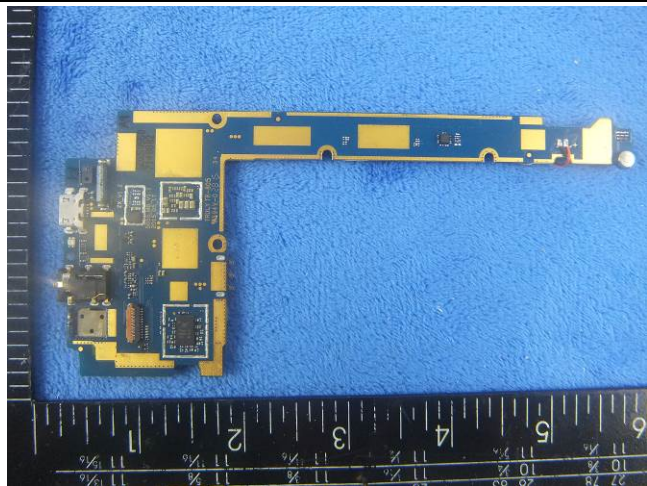
Mainbard with Shielding - Front View 2



Mainboard without Shielding – Front View



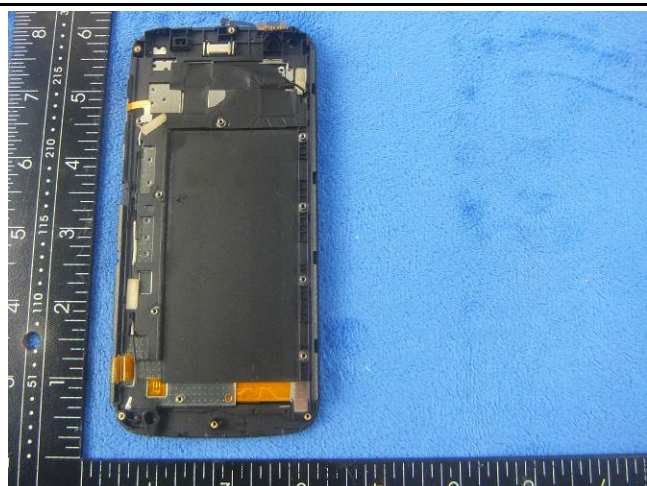
Mainboard With Shielding - Rear View



Mainboard Without Shielding - Rear View



LCD – Front View



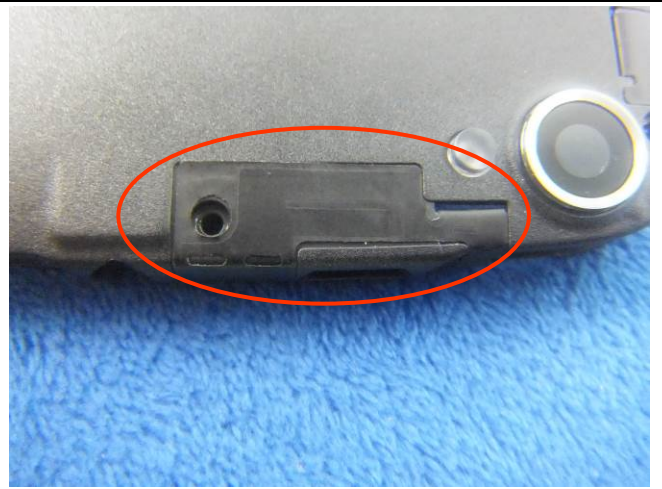
LCD – Rear View



GSM/PCS/UMTS-FDD/LTE Antenna View



WIFI/BT/BLE - Antenna View



GPS - Antenna View

Annex B.iii. Photograph: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

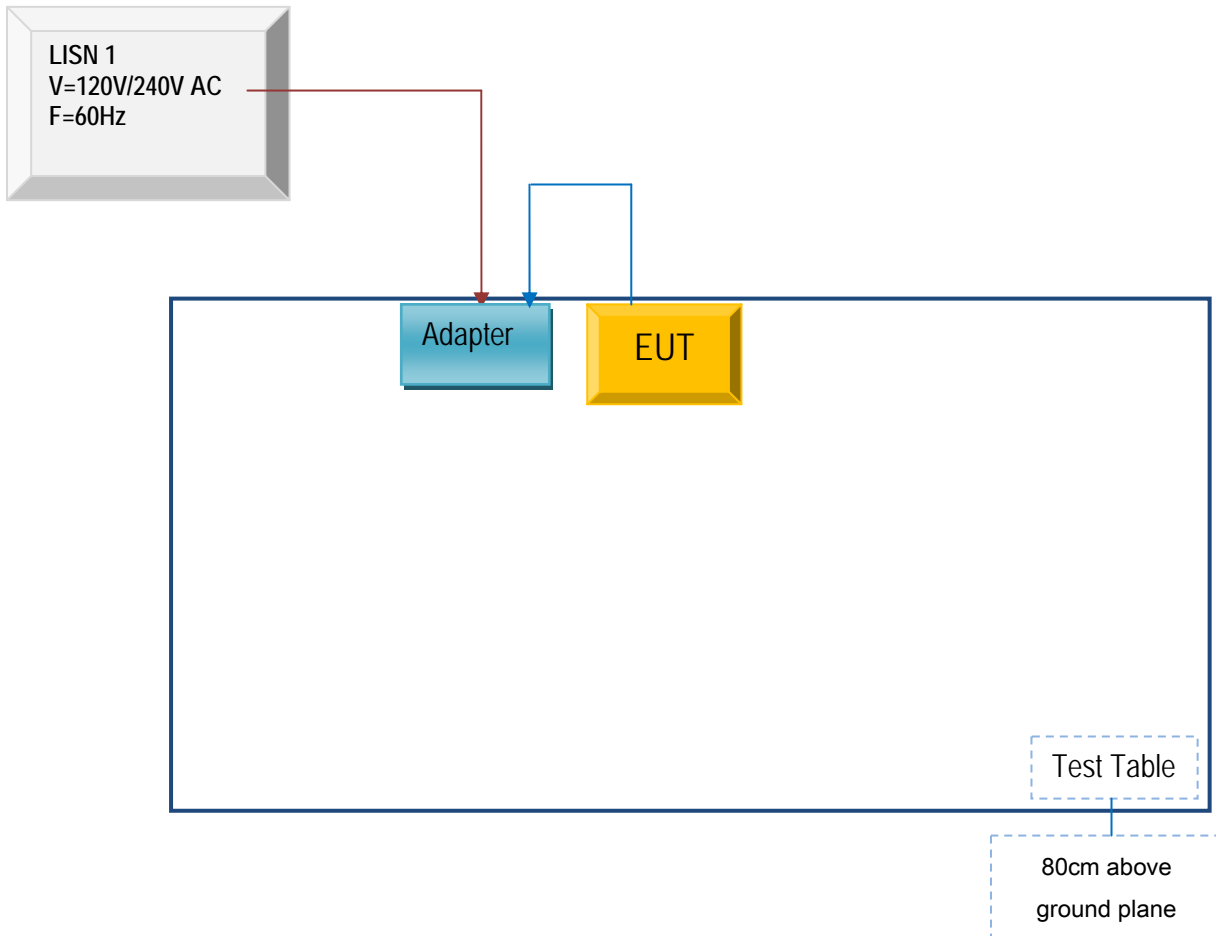


Radiated Spurious Emissions Test Setup Above 1GHz

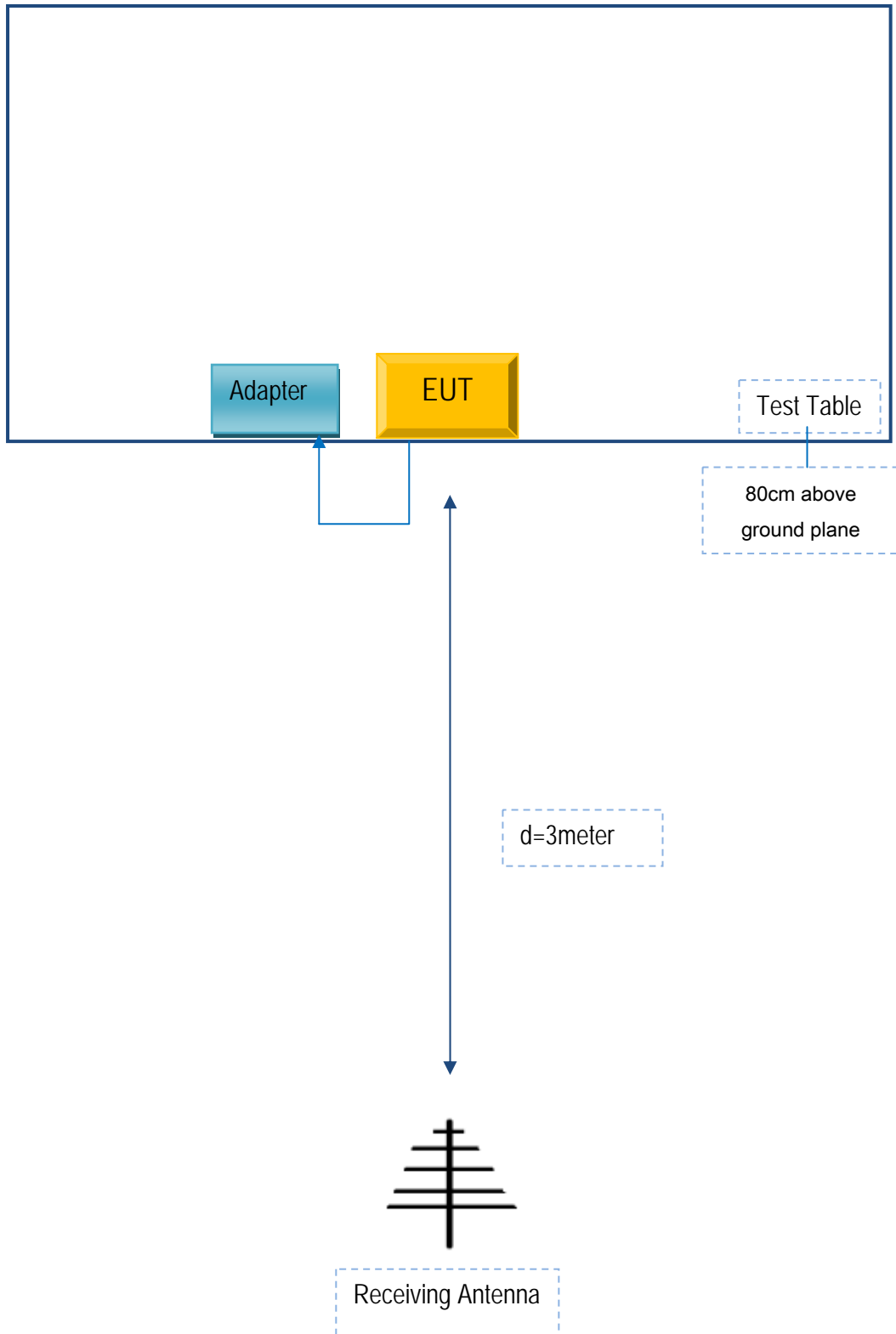
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

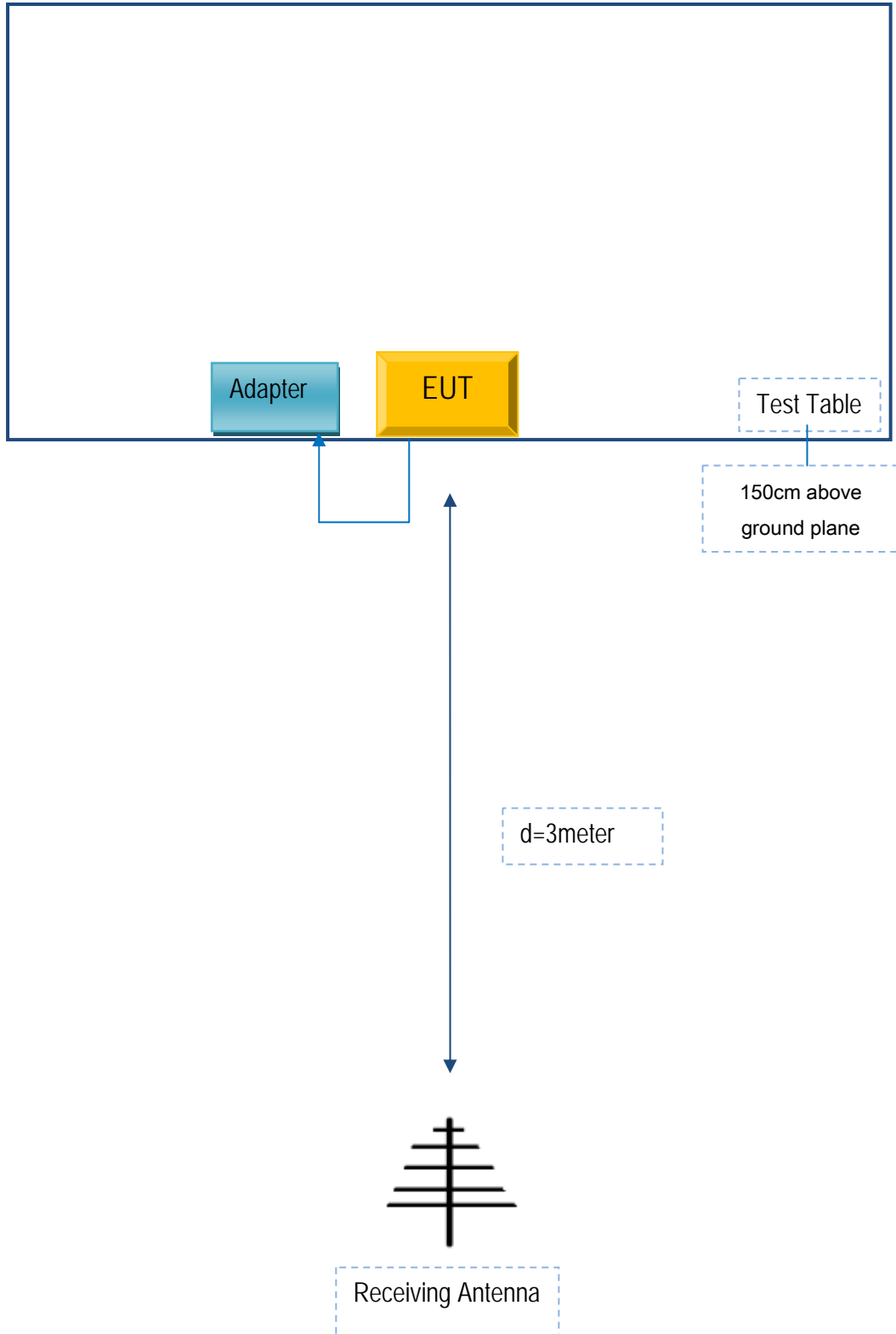
Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions (Below 1GHz) .



Block Configuration Diagram for Radiated Emissions (Above 1GHz) .



Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A

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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

Test Report	15070591-FCC-R2
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Annex E. DECLARATION OF SIMILARITY

N/A