
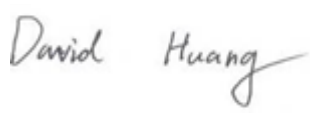



RF TEST REPORT



Report No.: 17070833-FCC-R3

Supersede Report No.: N/A

Applicant	Verykool USA Inc	
Product Name	Mobile phone	
Model No.	s5205	
Serial No.	s5204	
Test Standard	FCC Part 15.247: 2016, ANSI C63.10: 2013	
Test Date	September 02 to 14, 2017	
Issue Date	September 15, 2017	
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"/>		
		
Loren Luo 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
17070833-FCC-R3	NONE	Original	September 15, 2017

2. Customer information

Applicant Name	Verykool USA Inc
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, California 92122 United States
Manufacturer	Guizhou Fortuneship Technology Co., Ltd
Manufacturer Add	2nd Floor, Factory Building 4, Hi-Tech Industrial Park, Xinpu Economic Development Zone, Xinpu New District, Zunyi City, Guizhou Province, P. R. China

3. Test site information

Test Lab A:

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.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMG(ver.lcp-03A1)

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Main Model:	s5205
Serial Model:	s5204
Date EUT received:	September 01, 2017
Test Date(s):	September 02 to 14, 2017
Equipment Category :	DSS
Antenna Gain:	GSM850: -1.5dBi PCS1900: 0.5dBi UMTS-FDD Band V: -1.5dBi UMTS-FDD Band II: 0.5dBi WIFI: -2dBi Bluetooth/BLE: -2.3dBi GPS: -2.3dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK, 8PSK UMTS-FDD: QPSK 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK GPS: BPSK

RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz
	PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz
	UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
	UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;
	RX: 1932.4 ~ 1987.6 MHz
	WIFI: 802.11b/g/n(20M): 2412-2462 MHz
	WIFI: 802.11n(40M): 2422-2452 MHz
Max. Output Power:	Bluetooth& BLE: 2402-2480 MHz
	GPS: 1575.42 MHz
Number of Channels:	GSM 850: 124CH
	PCS1900: 299CH
	UMTS-FDD Band V : 102CH
	UMTS-FDD Band II : 277CH
	WIFI :802.11b/g/n(20M): 11CH
	WIFI :802.11n(40M): 7CH
	Bluetooth: 79CH
Port:	BLE: 40CH
	GPS:1CH
Input Power:	USB Port, Earphone Port
	Adapter:
	Model: UAX-C05Y10-00A00
	Input: AC100-240V~50/60Hz,0.2A
	Output: DC 5.0V,1A
	Battery
	Model: 366073AR
Trade Name :	Spec: 3.7V, 2000mAh, 7.4Wh
	Limited charge voltage: 4.2V
FCC ID:	WA6S5205

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& Restricted Band	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions& Restricted Band	Compliance

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge& Restricted Band and Radiated Emissions& Restricted Band	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 2 antennas:

A permanently attached PIFA antenna for Bluetooth/BLE/WIFI/GPS, the gain is -2.3dBi for Bluetooth/BLE, the gain is -2dBi for WIFI, the gain is -2.3dBi for GPS.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -1.5dBi for GSM850, 0.5dBi for PCS1900, -1.5dBi for UMTS-FDD Band V, 0.5dBi for UMTS-FDD Band II.


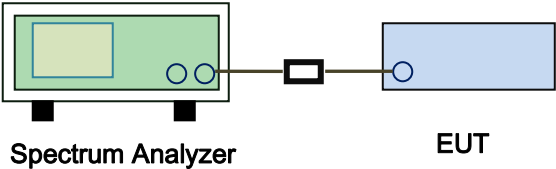
The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 Channel Separation

Temperature	23°C
Relative Humidity	54%
Atmospheric Pressure	1014mbar
Test date :	September 11, 2017
Tested By :	Loren Luo

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	
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. 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) \geq 1% of the span - Video (or Average) Bandwidth (VBW) \geq 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. 		

Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

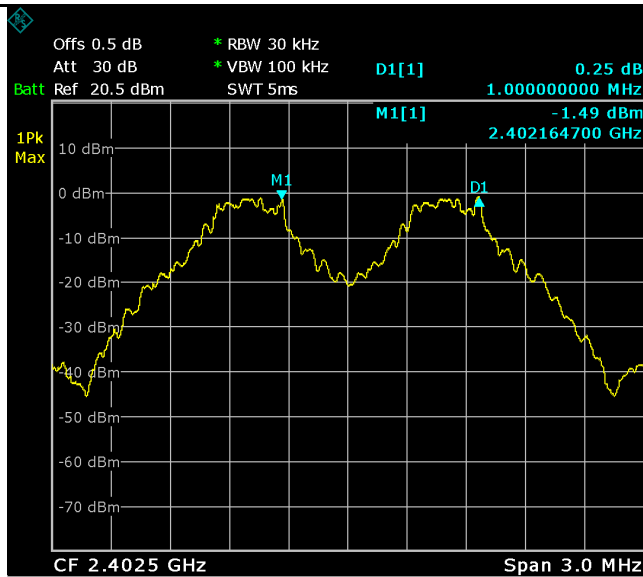
Test Plot ☒ Yes (See below) ☐ N/A

Channel Separation measurement result

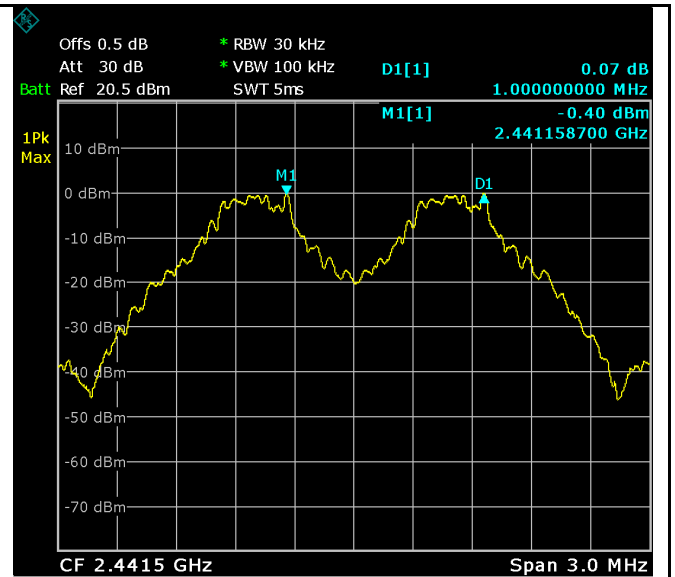
Type/ Modulation	CH	CH Frequency (MHz)	CH Separation (MHz)	Limit (MHz)	Result
CH Separation GFSK	Low Channel	2402	1	0.690	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1	0.691	Pass
	Adjacency Channel	2441			
	High Channel	2480	1	0.693	Pass
	Adjacency Channel	2479			
CH Separation $\pi/4$ DQPSK	Low Channel	2402	1	0.859	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1	0.875	Pass
	Adjacency Channel	2441			
	High Channel	2480	1	0.857	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1	0.868	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1	0.858	Pass
	Adjacency Channel	2441			
	High Channel	2480	1	0.856	Pass
	Adjacency Channel	2479			

Test Plots

Channel Separation measurement result

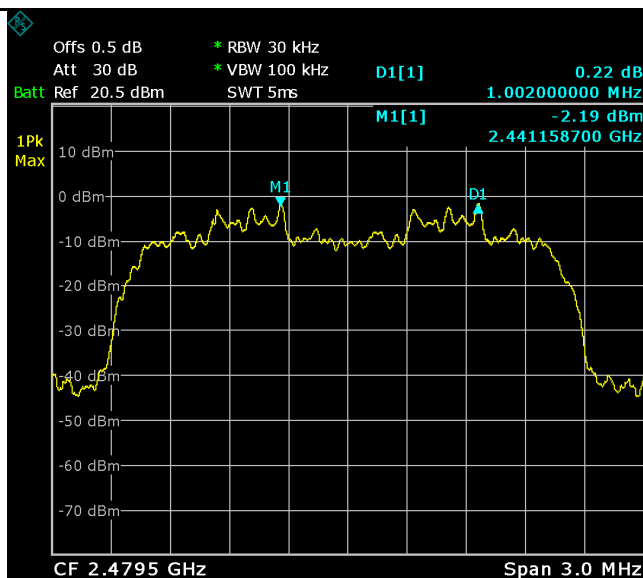


Date: 11.SEP.2017 17:26:44



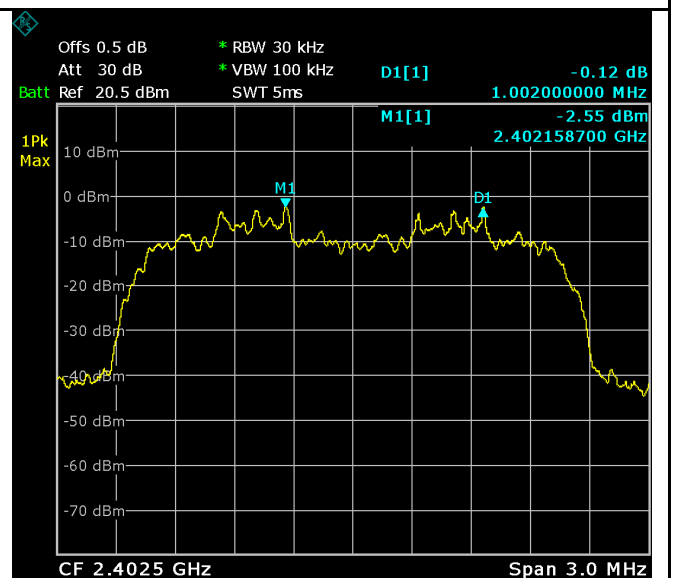
Date: 11.SEP.2017 17:28:16

GFSK - Low Channel



Date: 11.SEP.2017 17:35:11

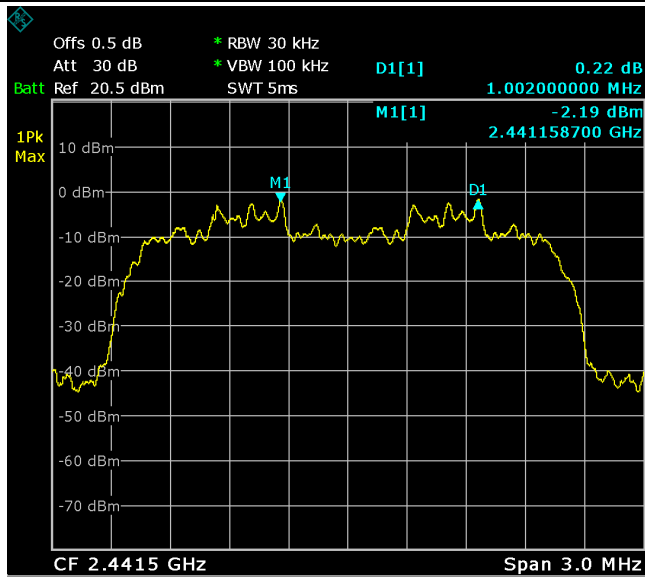
GFSK - Middle Channel



Date: 11.SEP.2017 17:32:54

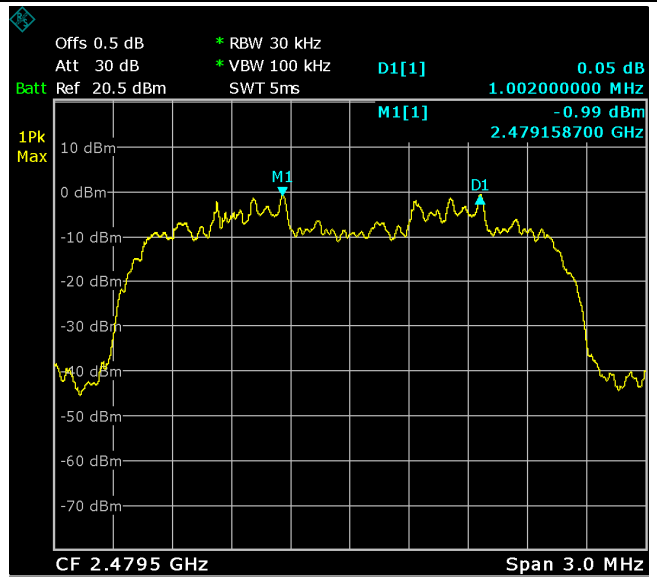
GFSK - High Channel

$\pi/4$ DPSK - Low Channel



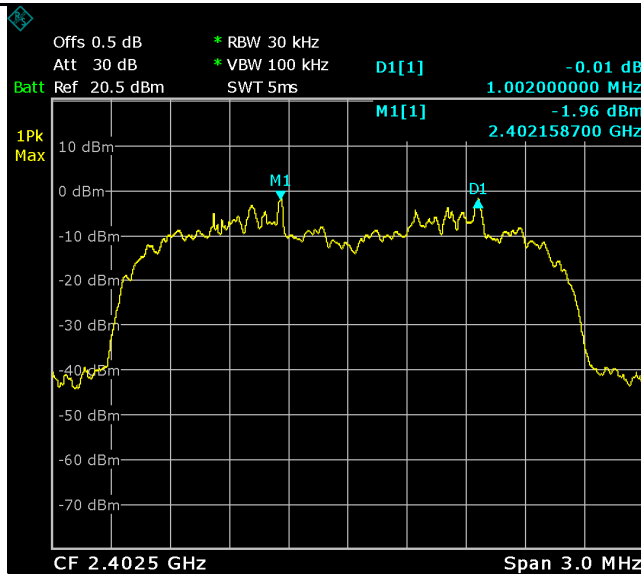
Date: 11.SEP.2017 17:35:18

$\pi/4$ DQPSK - Middle Channel



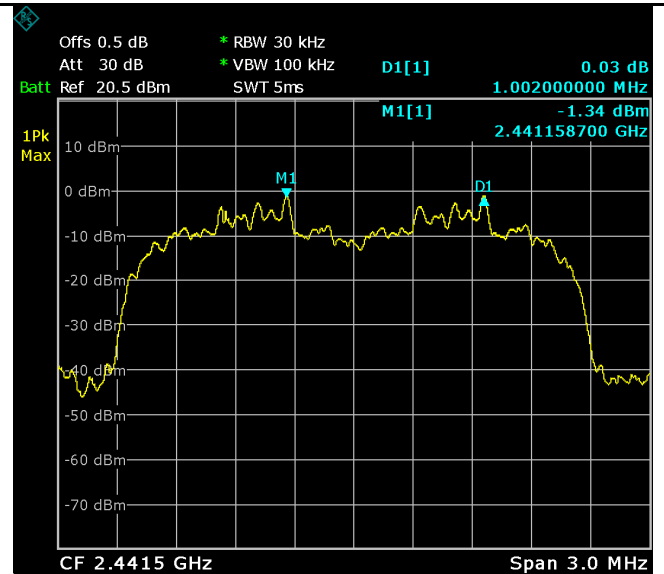
Date: 11.SEP.2017 17:36:13

$\pi/4$ DQPSK - High Channel



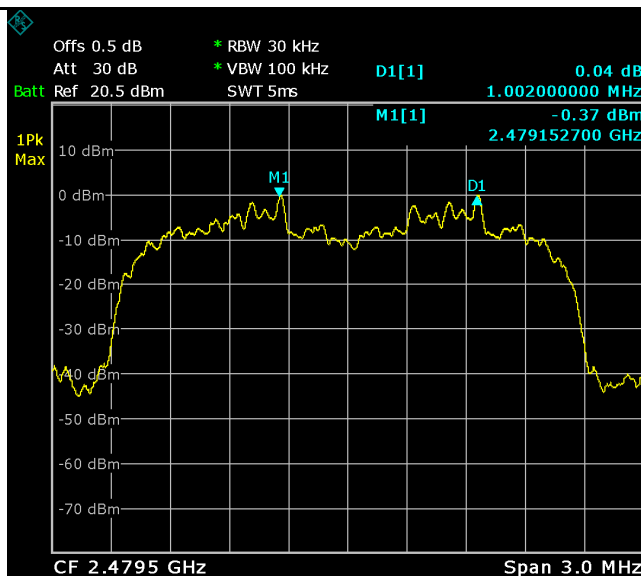
Date: 11.SEP.2017 17:37:46

8DPSK - Low Channel



Date: 11.SEP.2017 17:39:02

8DPSK - Middle Channel




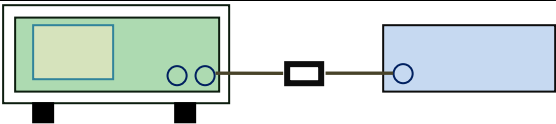
Date: 11.SEP.2017 17:40:14

8DPSK - High Channel

6.3 20dB Bandwidth

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By :	Loren Luo

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.	
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. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> - Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel - RBW \geq 1% of the 20 dB bandwidth - VBW \geq 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 		

	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

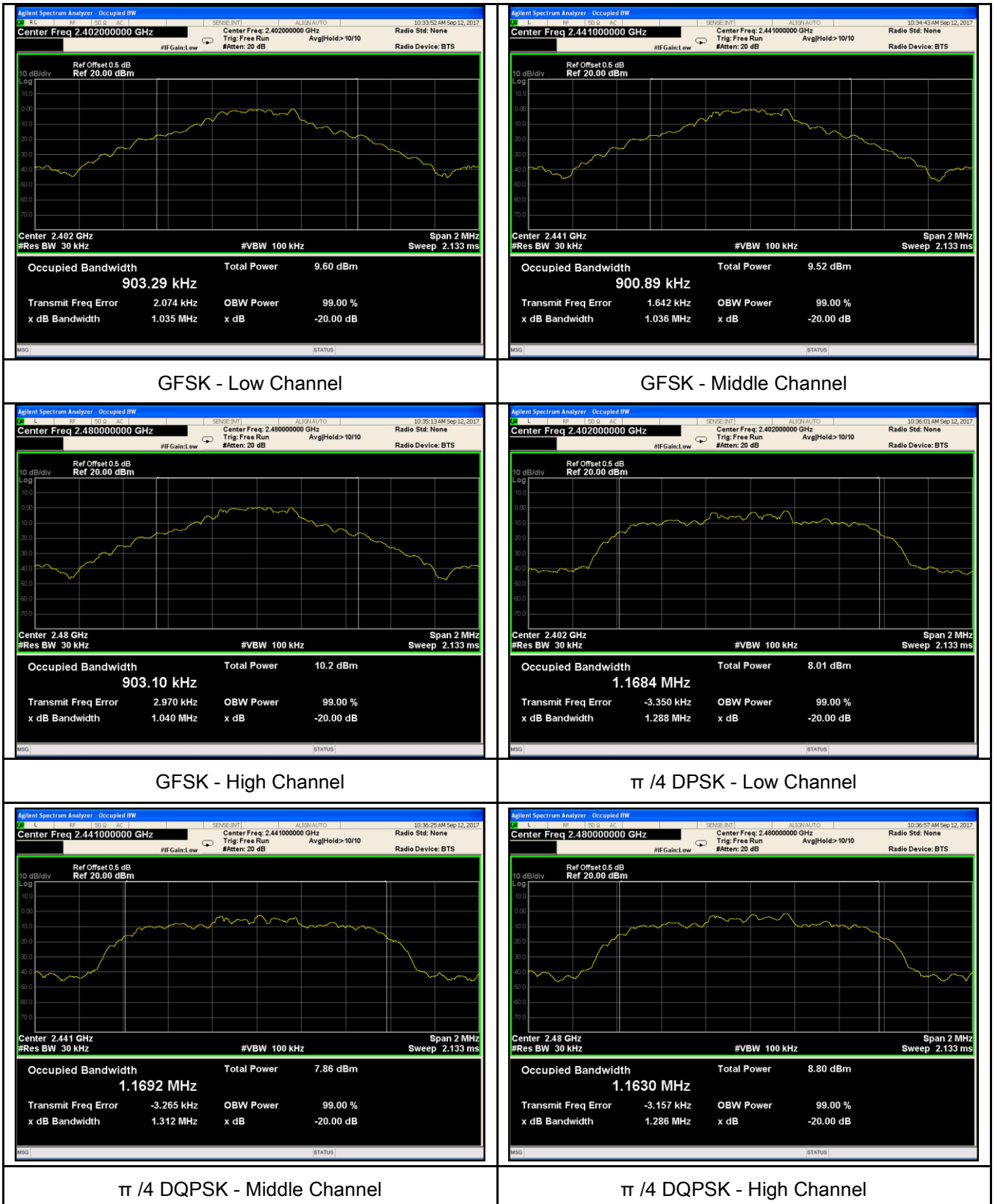
Test Plot ☒ Yes (See below) ☐ N/A

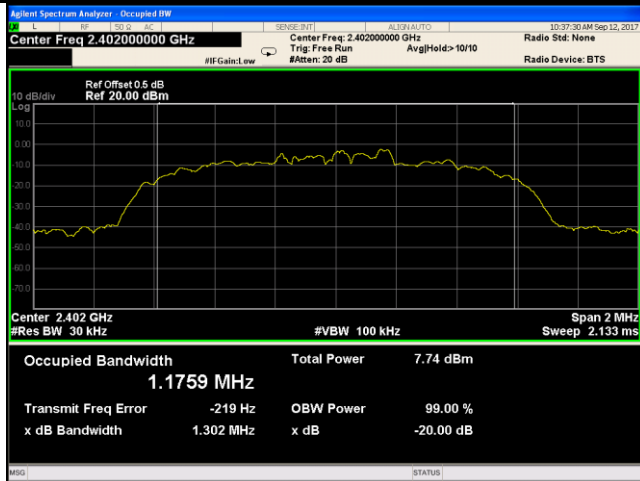
Measurement result

Modulation	CH	CH Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
GFSK	Low	2402	1.035	0.9033
	Mid	2441	1.036	0.9009
	High	2480	1.040	0.9031
$\pi/4$ DQPSK	Low	2402	1.288	1.1684
	Mid	2441	1.312	1.1692
	High	2480	1.286	1.1630
8-DPSK	Low	2402	1.302	1.1759
	Mid	2441	1.287	1.1668
	High	2480	1.284	1.1691

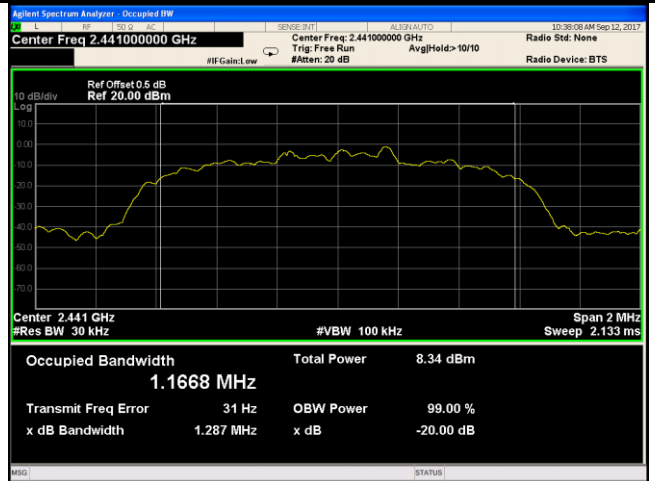
Test Plots

20dB Bandwidth measurement result

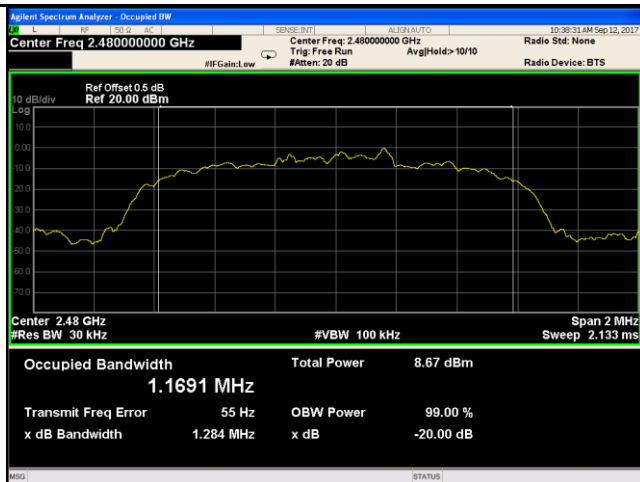




8DPSK - Low Channel



8DPSK - Middle Channel



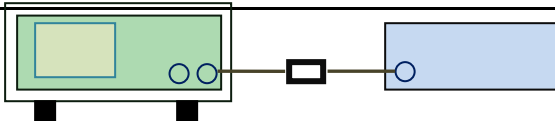
8DPSK - High Channel

6.4 Peak Output Power

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (3)	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)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	<input 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.</p> <p><u>Use the following spectrum analyzer settings:</u></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 - Allow the trace to stabilize.
----------------	---

	<p>- 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.</p>
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

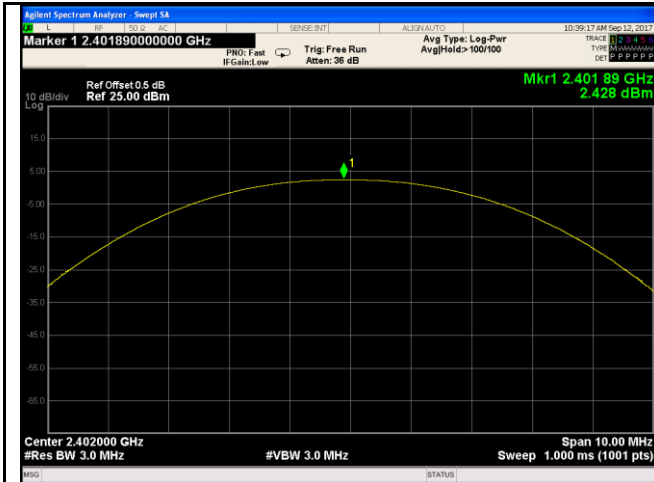
Test Plot ☒ Yes (See below) ☐ N/A

Peak Output Power measurement result

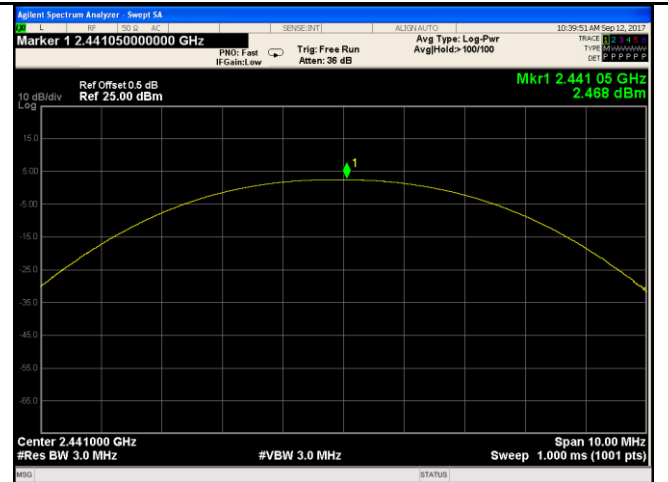
Type	Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	2.428	125	Pass
		Mid	2441	2.468	125	Pass
		High	2480	2.984	125	Pass
	$\pi/4$ DQPSK	Low	2402	2.269	125	Pass
		Mid	2441	2.237	125	Pass
		High	2480	2.806	125	Pass
	8-DPSK	Low	2402	2.232	125	Pass
		Mid	2441	2.289	125	Pass
		High	2480	2.955	125	Pass

Test Plots

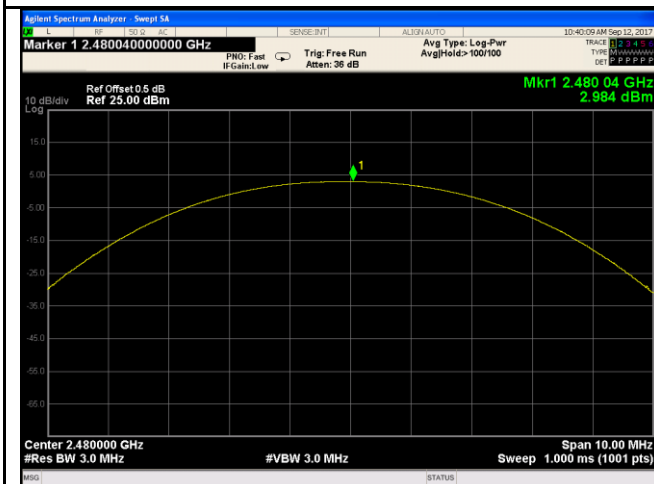
Output Power measurement result



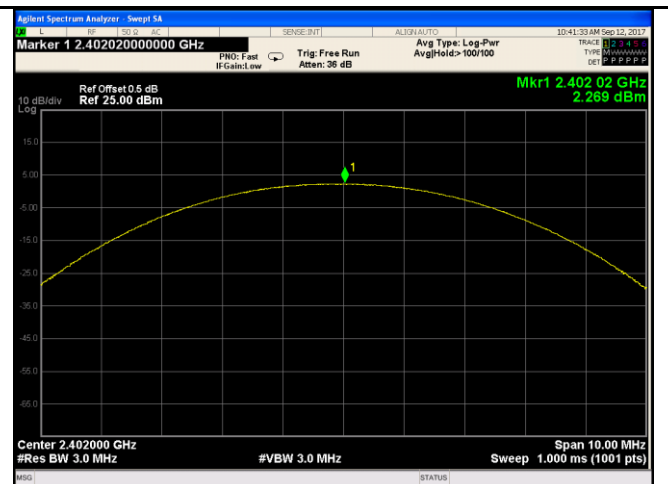
GFSK Output power - Low CH 2402



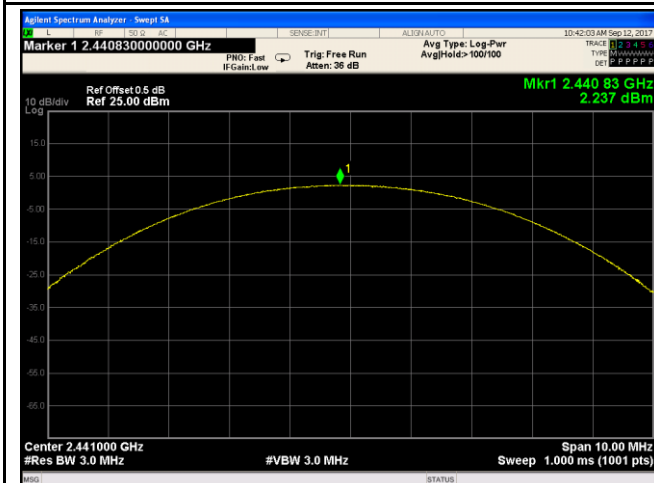
GFSK Output power - Mid CH 2441



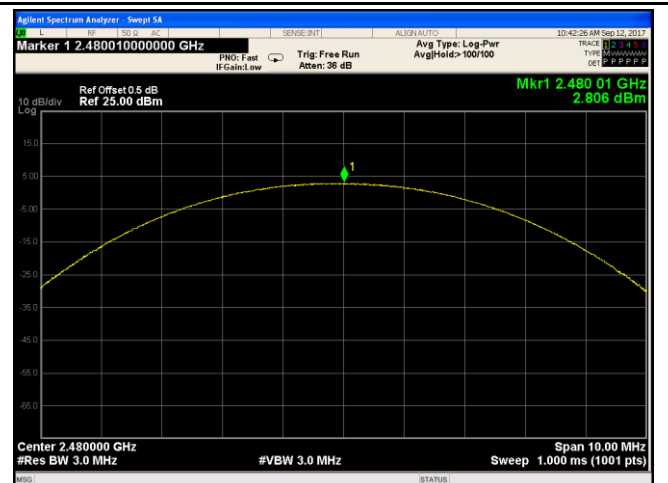
GFSK Output power - High CH 2480



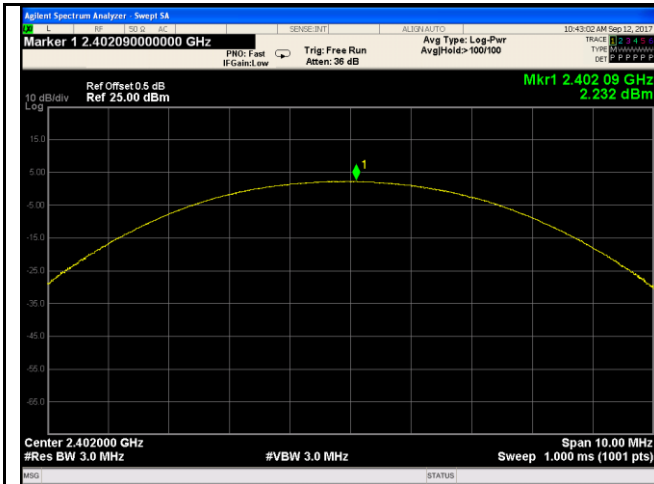
$\pi/4$ DQPSK Output power - Low CH 2402



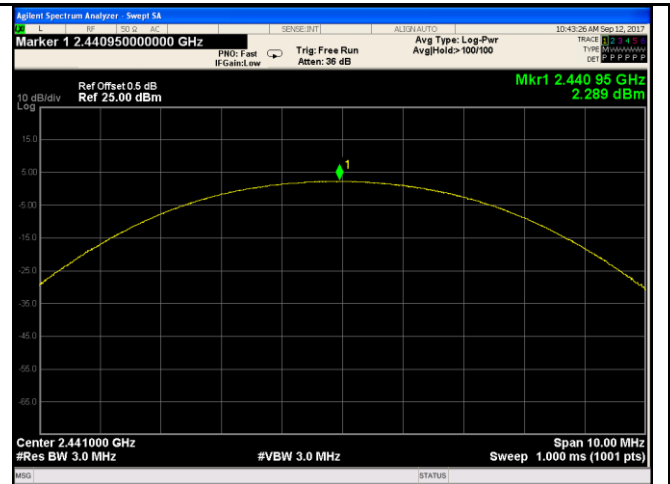
$\pi/4$ DQPSK Output power - Mid CH 2441



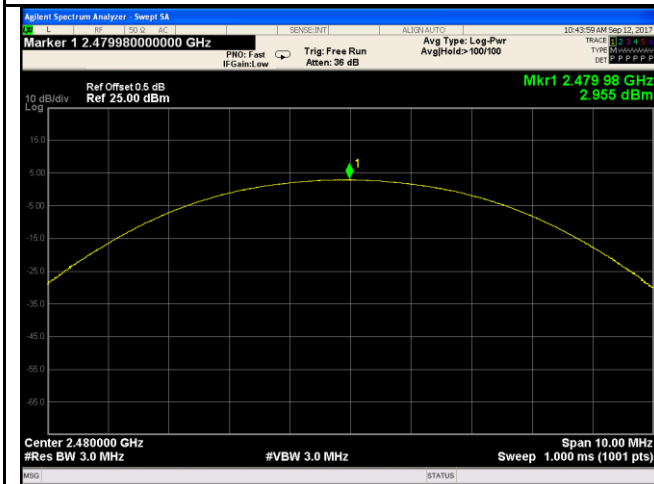
$\pi/4$ DQPSK Output power - High CH 2480



8DPSK Output power - Low CH 2402



8DPSK Output power - Mid CH 2441

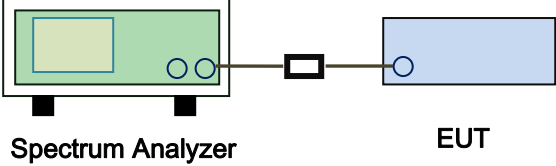


8DPSK Output power - High CH 2480

6.5 Number of Hopping Channel

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	FHSS in 2400-2483.5MHz \geq 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 \geq 1% of the span - VBW \geq 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		

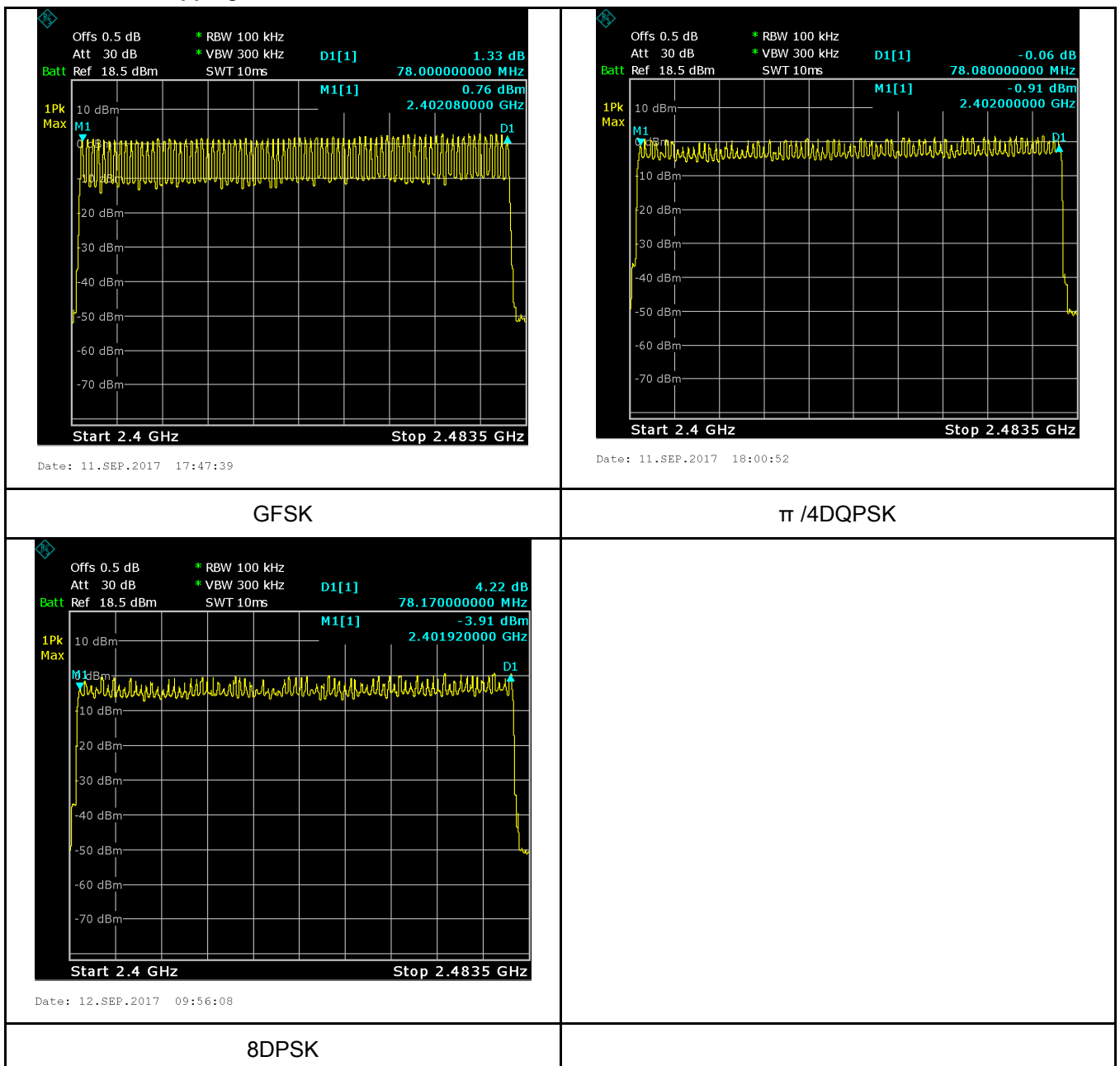
Test Data ☒ Yes ☐ N/A
 Test Plot ☒ Yes (See below) ☐ N/A

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

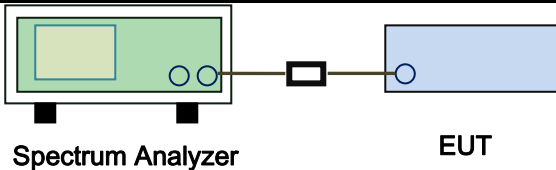
Number of Hopping Channels measurement result



6.6 Time of Occupancy (Dwell Time)

Temperature	25°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	September 12, 2017
Tested By :	Loren Luo

Requirement(s):

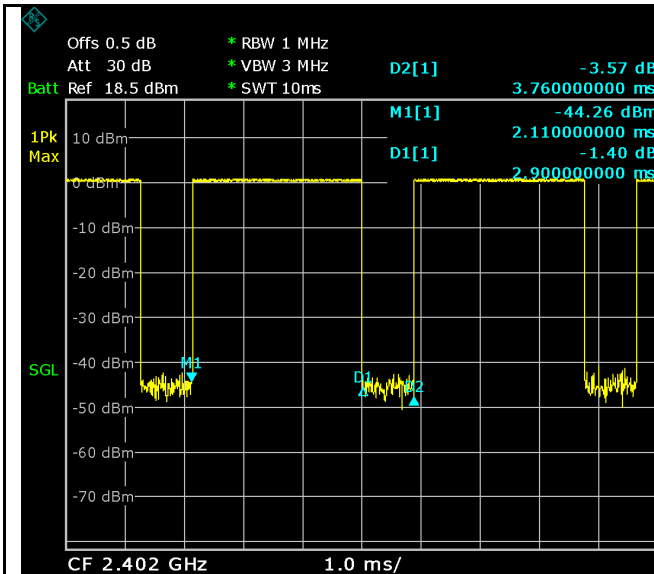
Spec	Item	Requirement	Applicable
§15.247(a) (1)(iii)	a)	Dwell Time < 0.4s	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>		
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. <u>Use the following spectrum analyzer</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

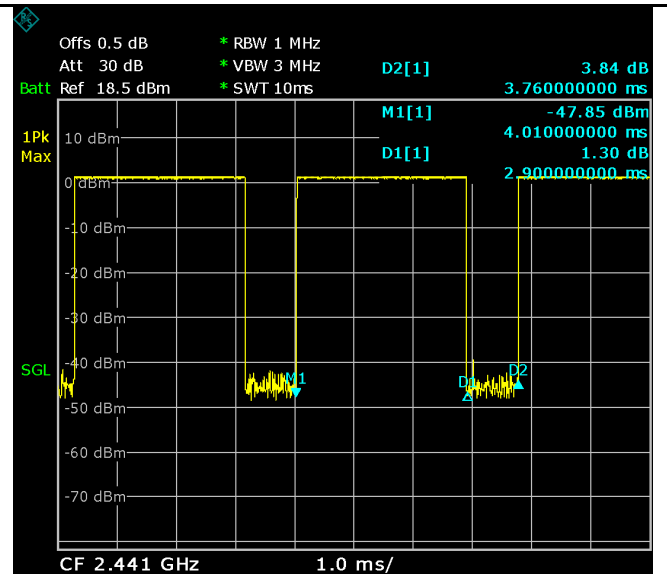
Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.900	309.333	400	Pass
		Mid	2.900	309.333	400	Pass
		High	2.920	311.467	400	Pass
	π /4 DQPSK	Low	2.920	311.467	400	Pass
		Mid	2.920	311.467	400	Pass
		High	2.900	309.333	400	Pass
	8-DPSK	Low	2.920	311.467	400	Pass
		Mid	2.900	309.333	400	Pass
		High	2.920	311.467	400	Pass
Note: Dwell time=Pulse Time (ms) \times (1600 \div 6 \div 79) \times 31.6						

Test Plots

Dwell Time measurement result

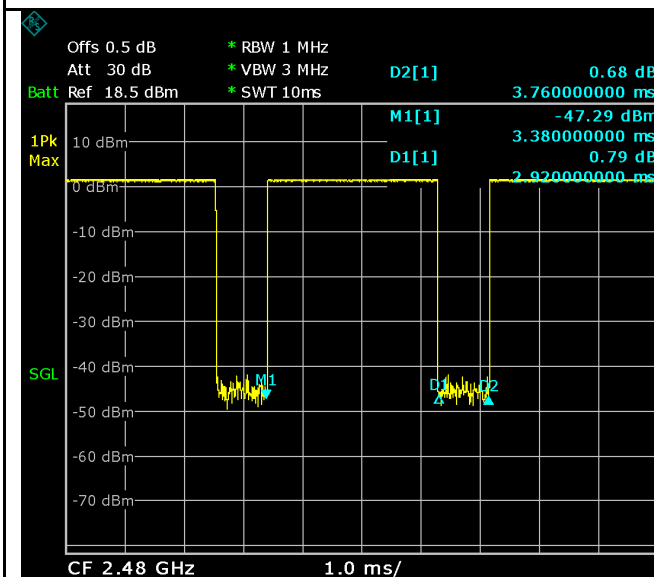


Date: 12.SEP.2017 10:04:26



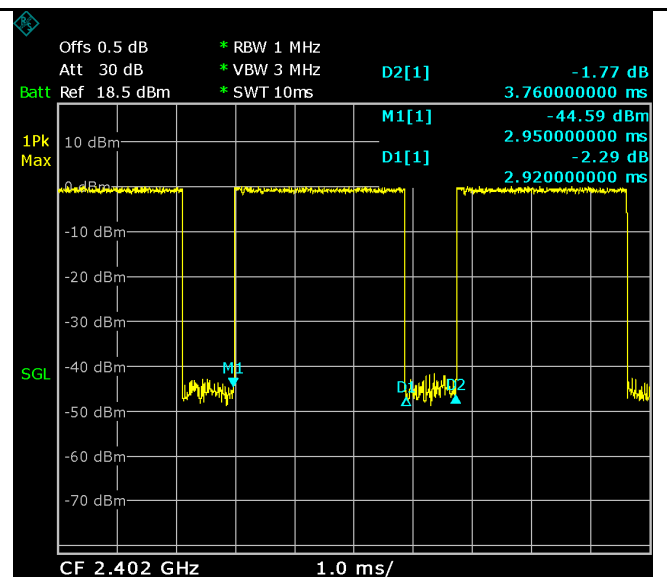
Date: 12.SEP.2017 10:05:53

GFSK - Low CH 2402



Date: 12.SEP.2017 10:09:50

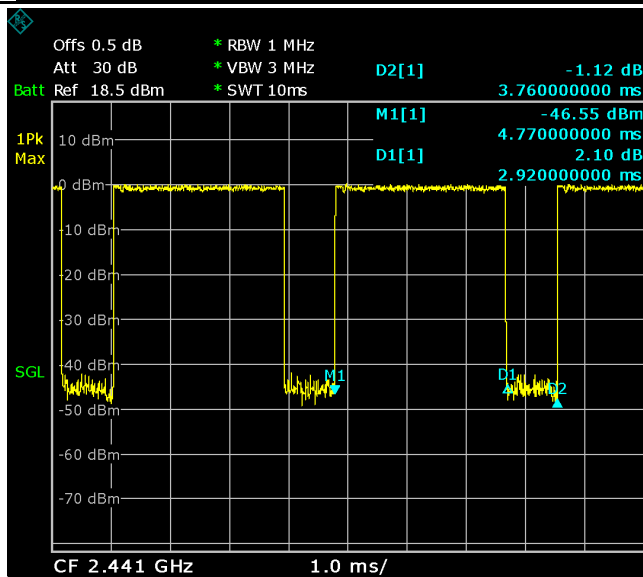
GFSK - Mid CH 2441



Date: 12.SEP.2017 10:13:47

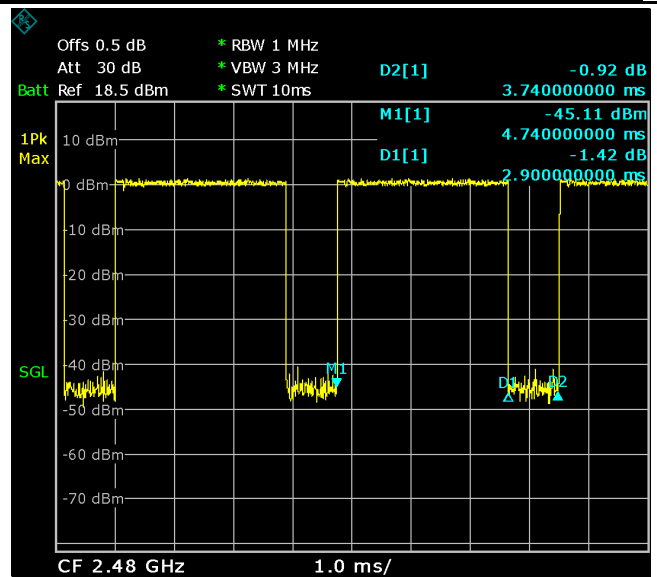
GFDK - High CH 2480

$\pi/4$ DQPSK - Low CH 2402



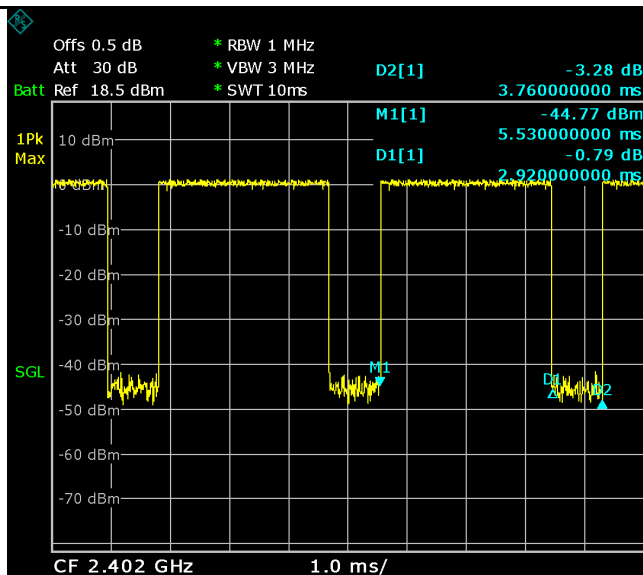
Date: 12.SEP.2017 10:15:43

$\pi/4$ DQPSK - Mid CH 2441



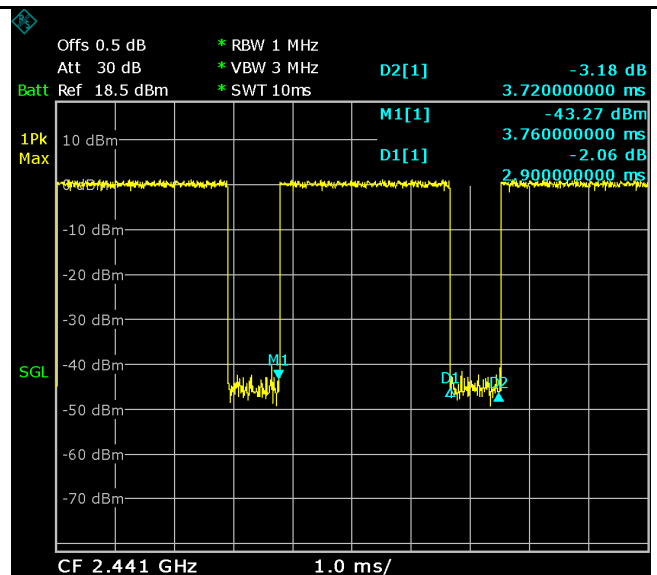
Date: 12.SEP.2017 10:17:14

$\pi/4$ DQPSK - High CH 2480



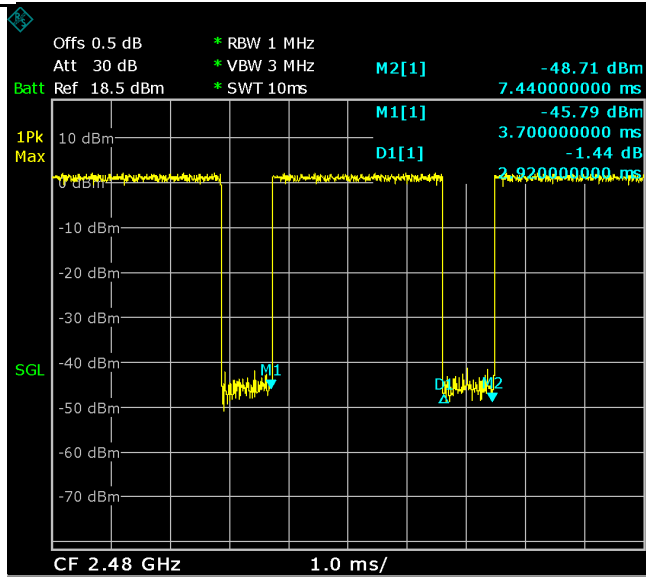
Date: 12.SEP.2017 10:18:40

8DPSK - Low CH 2402



Date: 12.SEP.2017 10:19:34

8DPSK - Mid CH 2441



Date: 12.SEP.2017 10:21:21

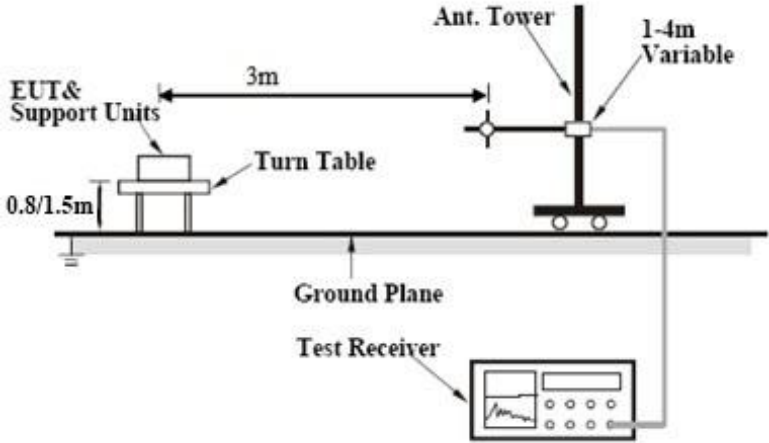
8DPSK - High CH 2480

6.7 Band Edge & Restricted Band

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	September 05, 2017
Tested By :	Loren Luo

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	
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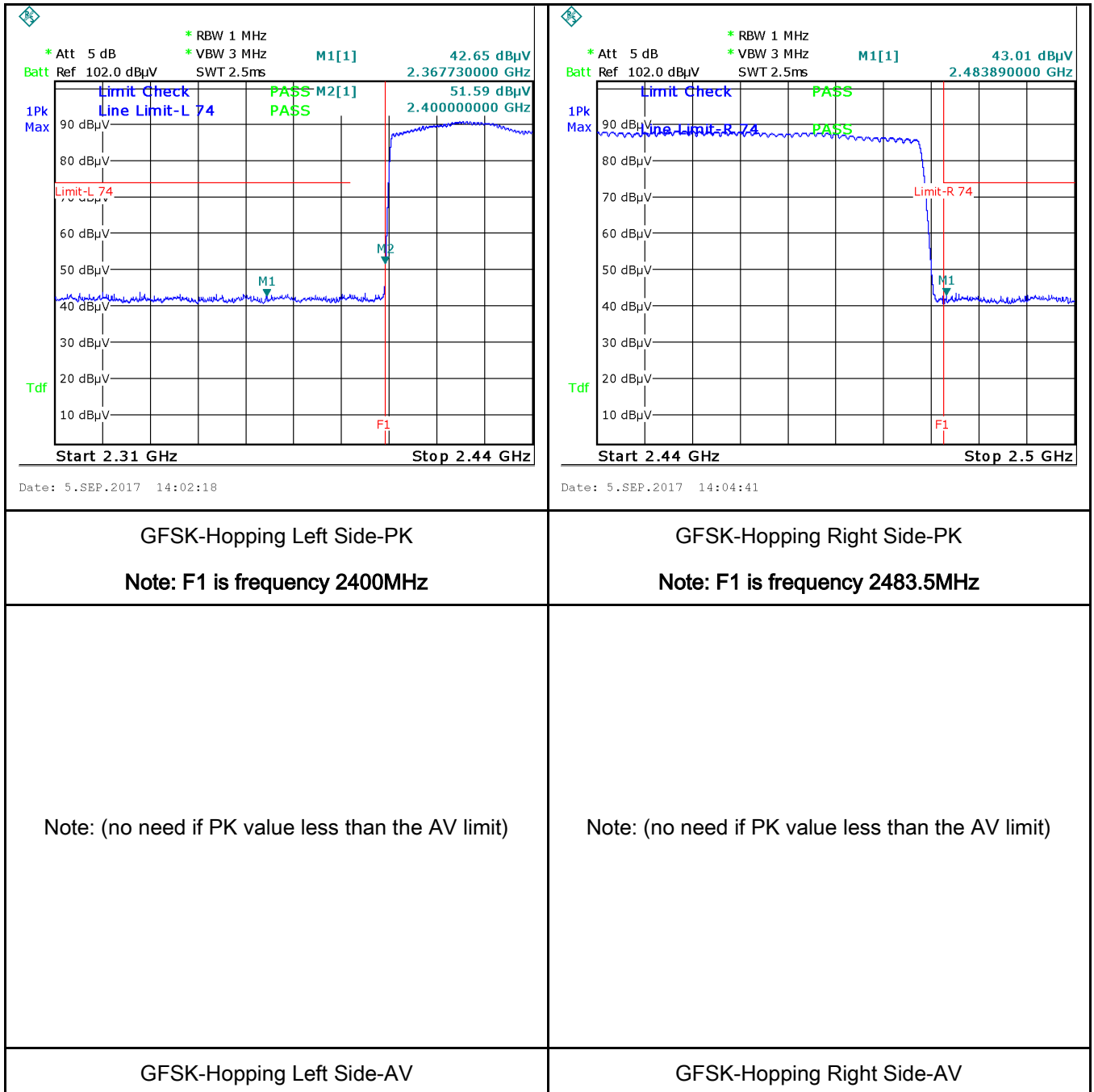
Test Procedure	<p>The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only</p> <ul style="list-style-type: none"> 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT 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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	<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

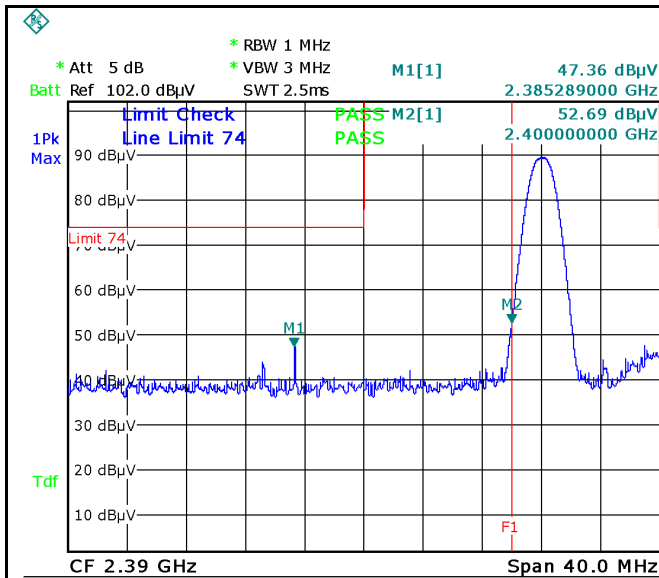
Test Data ☐ Yes ☒ N/A
Test Plot ☒ Yes (See below) ☐ N/A

Test Plots

GFSK Mode:

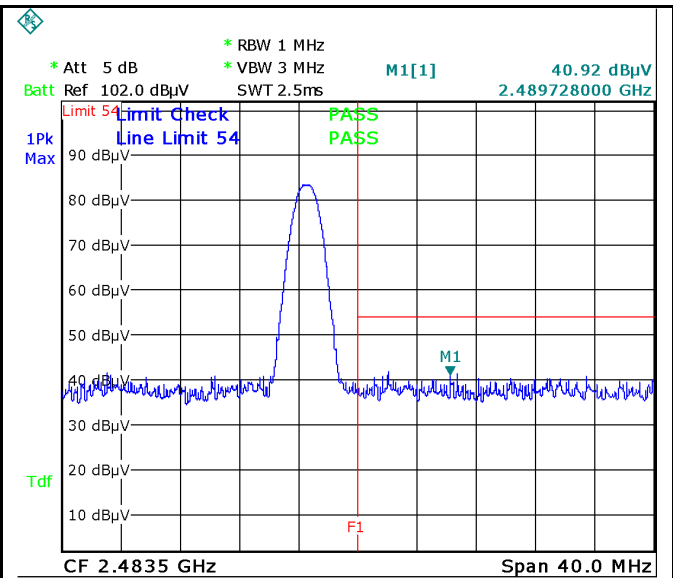


Note: Both Horizontal and vertical polarities were investigated.



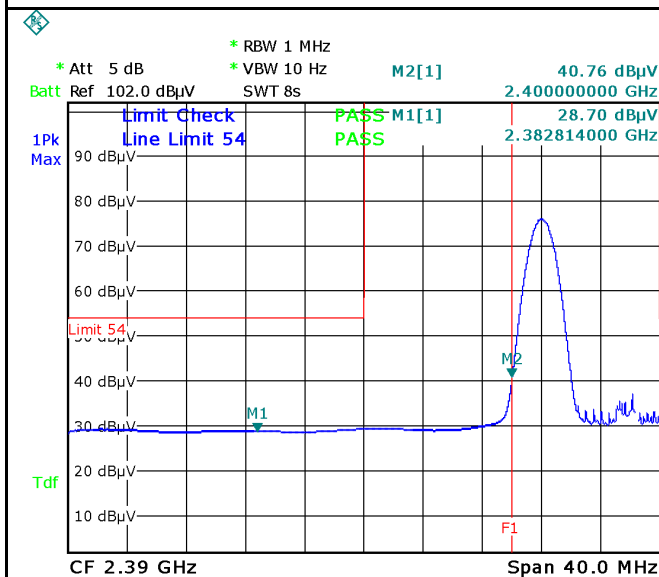
GFSK-Left Side-PK

Note: F1 is frequency 2400MHz



GFSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



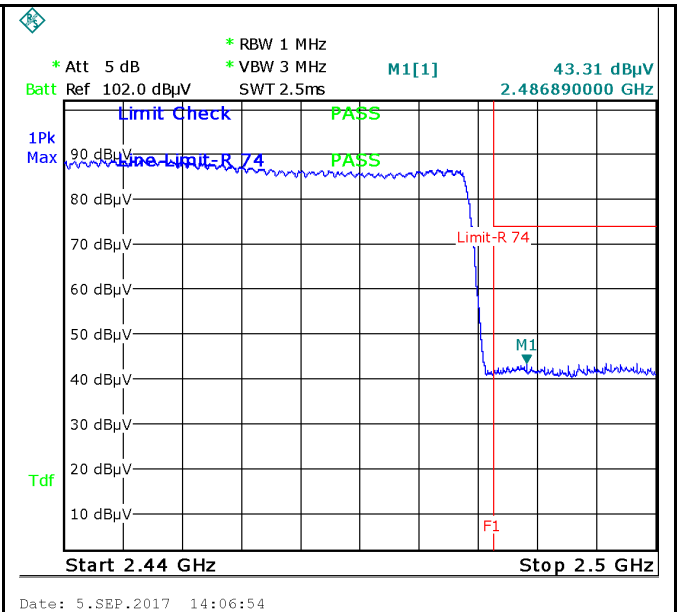
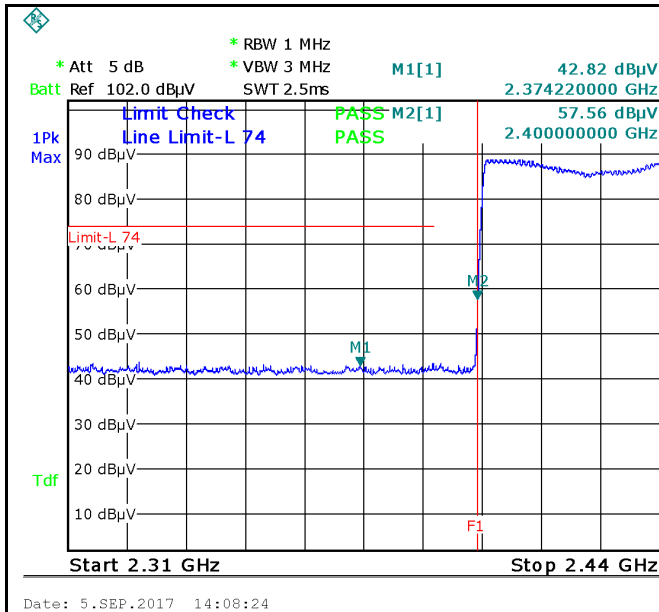
GFSK-Left Side-AV

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

GFSK-Right Side-AV

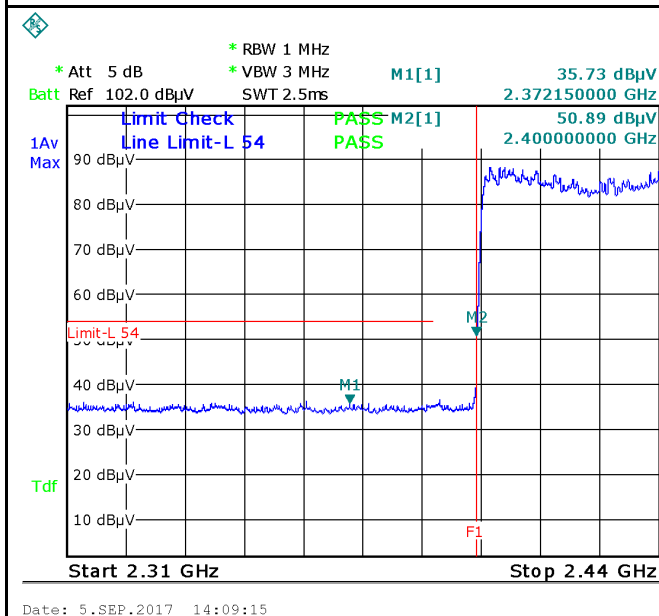
Note: Both Horizontal and vertical polarities were investigated.

$\pi/4$ DQPSK Mode:



$\pi/4$ DQPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



$\pi/4$ DQPSK-Hopping Right Side-PK

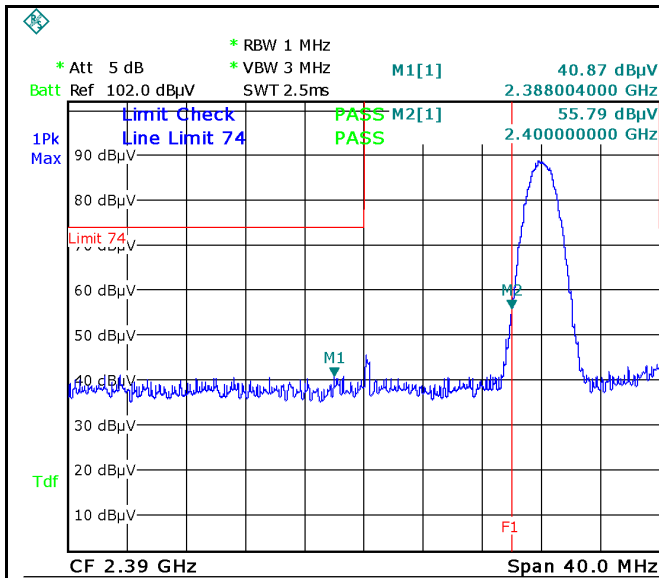
Note: F1 is frequency 2483.5MHz

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

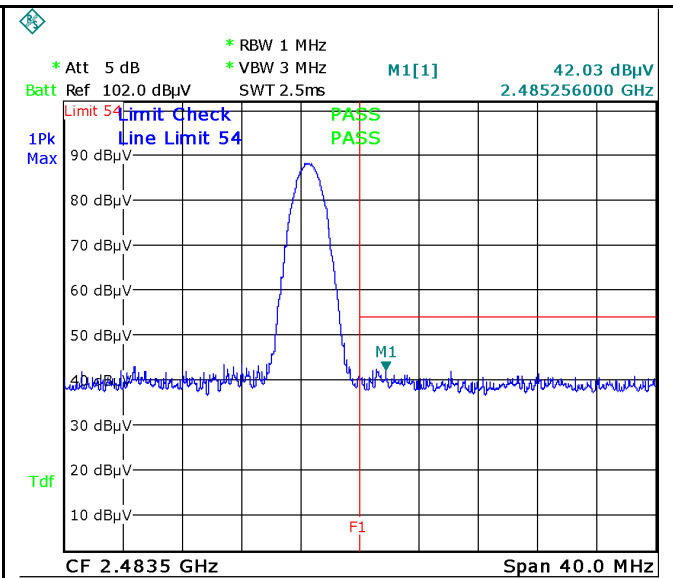
$\pi/4$ DQPSK-Hopping Left-AV

$\pi/4$ DQPSK-Hopping Right-AV

Note: Both Horizontal and vertical polarities were investigated.



Date: 5.SEP.2017 13:39:56



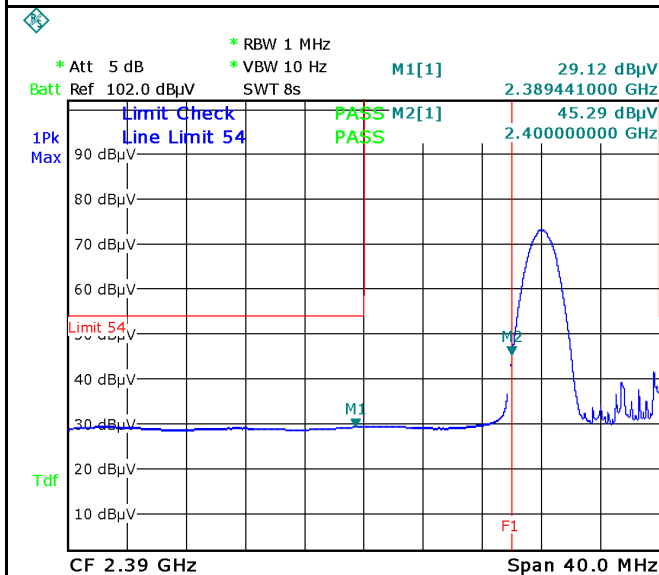
Date: 5.SEP.2017 13:53:47

$\pi/4$ DQPSK-Left Side-PK

Note: F1 is frequency 2400MHz

$\pi/4$ DQPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



Date: 5.SEP.2017 13:40:53

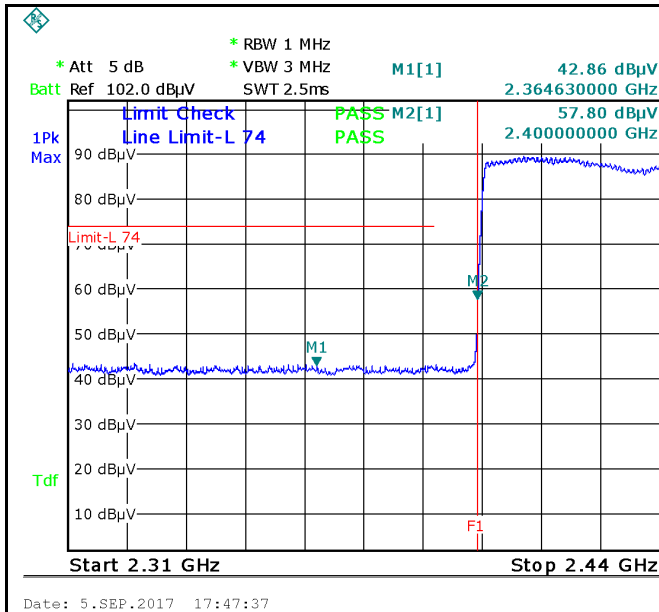
Note: (no need if PK value less than the AV limit)

$\pi/4$ DQPSK-Left Side-AV

$\pi/4$ DQPSK-Right Side-AV

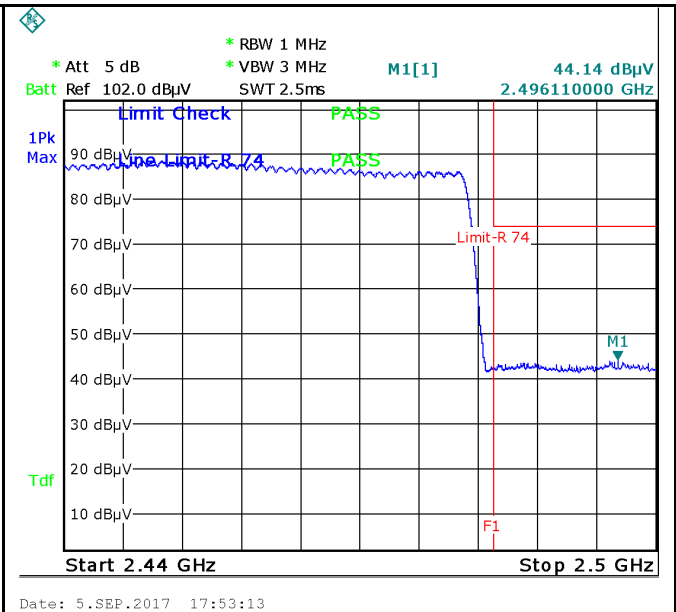
Note: Both Horizontal and vertical polarities were investigated.

8-DPSK Mode:



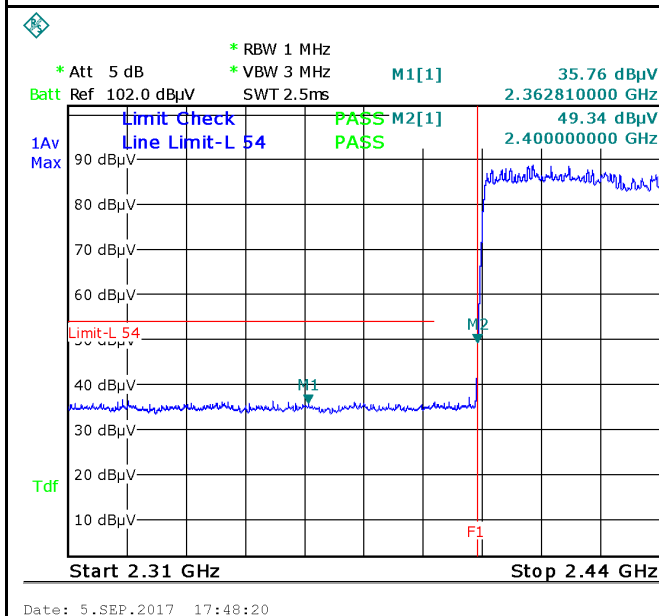
8DPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



8DPSK-Hopping Right Side-PK

Note: F1 is frequency 2483.5MHz

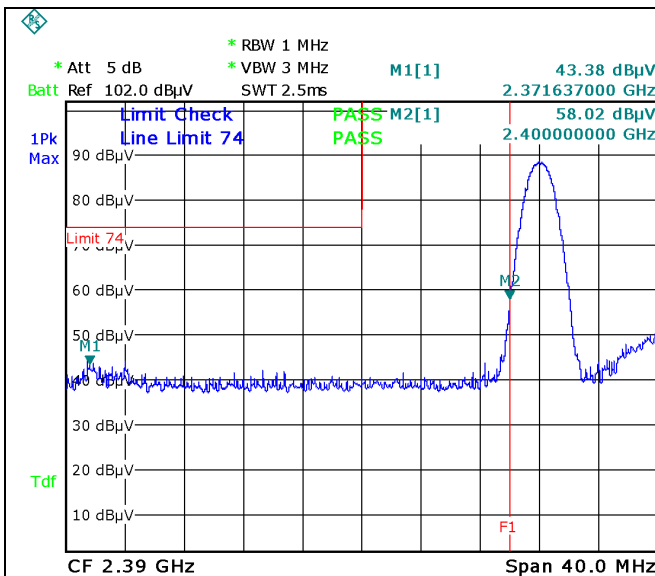


8DPSK-Hopping Left-AV

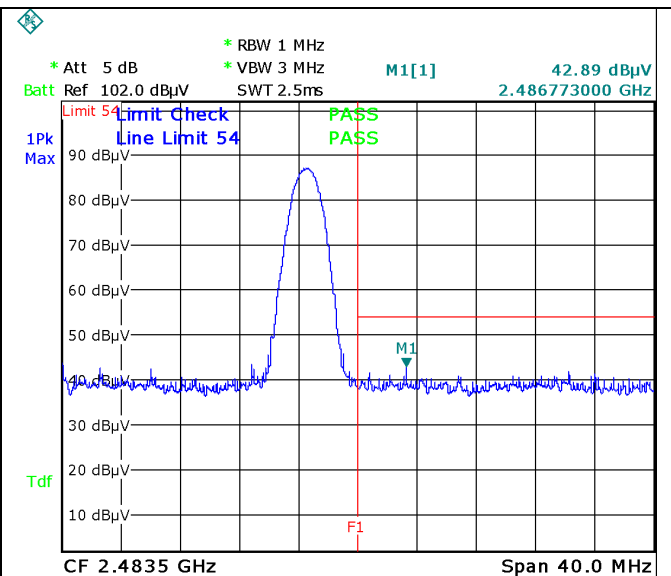
Note: (no need if PK value less than the AV limit)

8DPSK-Hopping Right-AV

Note: Both Horizontal and vertical polarities were investigated.



Date: 5.SEP.2017 13:47:36



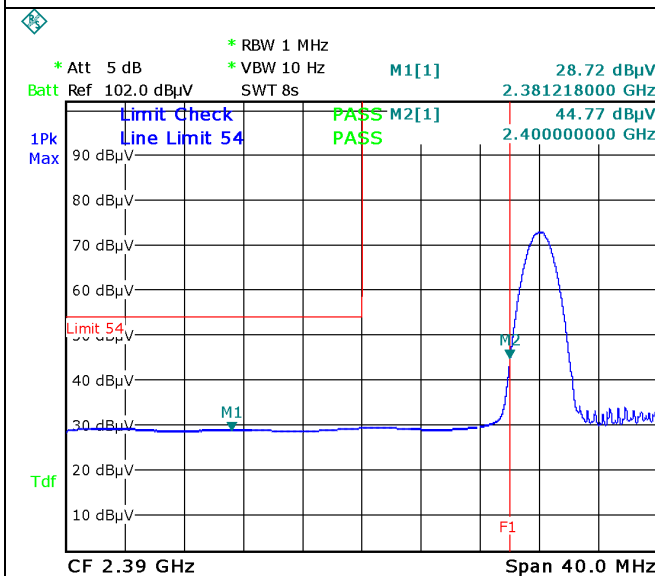
Date: 5.SEP.2017 13:52:09

8DPSK-Left Side-PK

Note: F1 is frequency 2400MHz

8DPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



Date: 5.SEP.2017 13:48:29

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

8DPSK-Left Side-AV

8DPSK-Right Side-AV

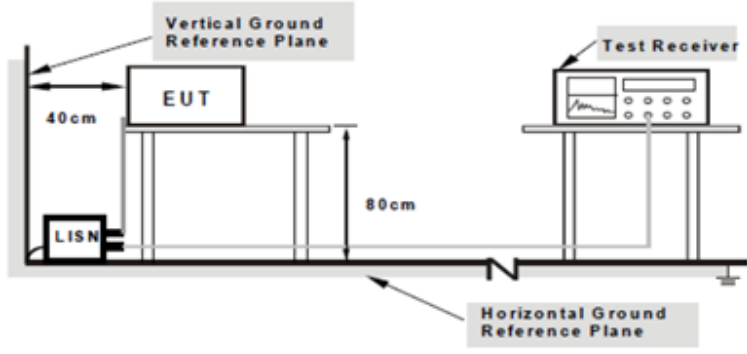
Note: Both Horizontal and vertical polarities were investigated.

6.8 AC Power Line Conducted Emissions

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	September 05, 2017
Tested By :	Loren Luo

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 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.	<div><input checked="" type="checkbox"/></div>														
		<table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><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></table>		Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50
		Frequency ranges (MHz)			Limit (dBµV)												
				QP	Average												
		0.15 ~ 0.5		66 – 56	56 – 46												
		0.5 ~ 5		56	46												
5 ~ 30	60	50															

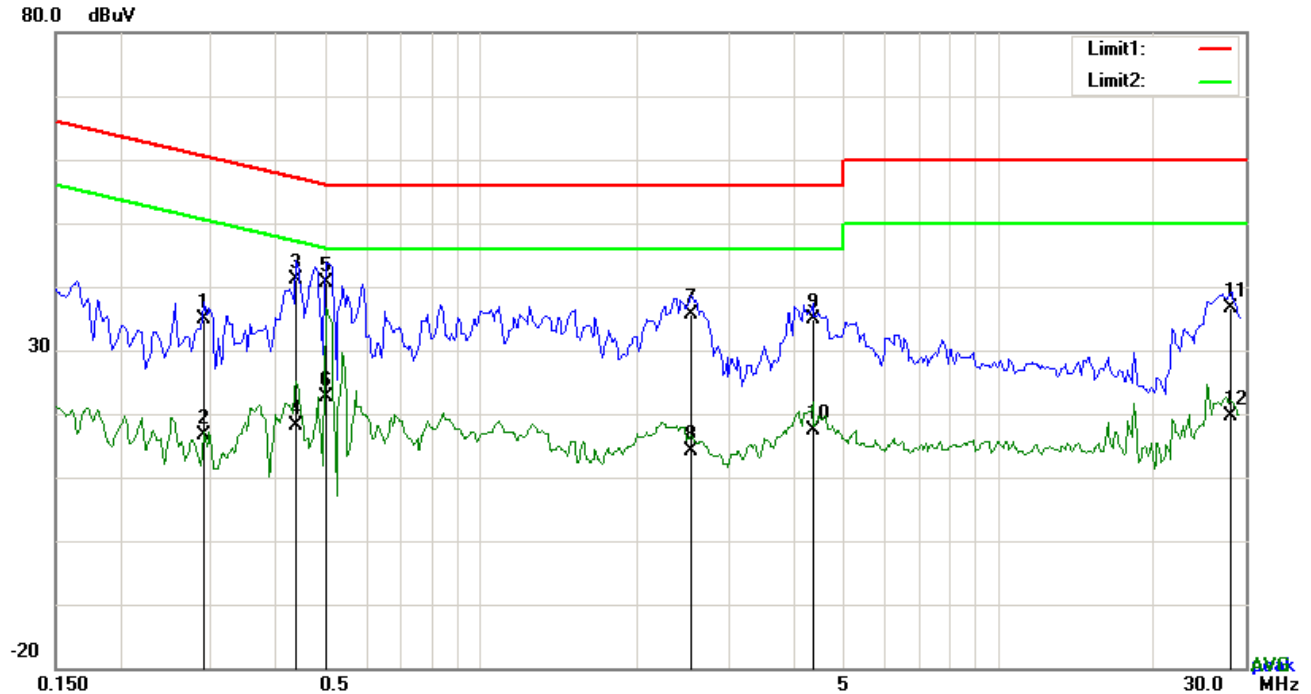
Test Setup	 <p>Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</p>
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Procedure	<ol style="list-style-type: none"> The EUT and supporting 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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	coaxial cable. 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

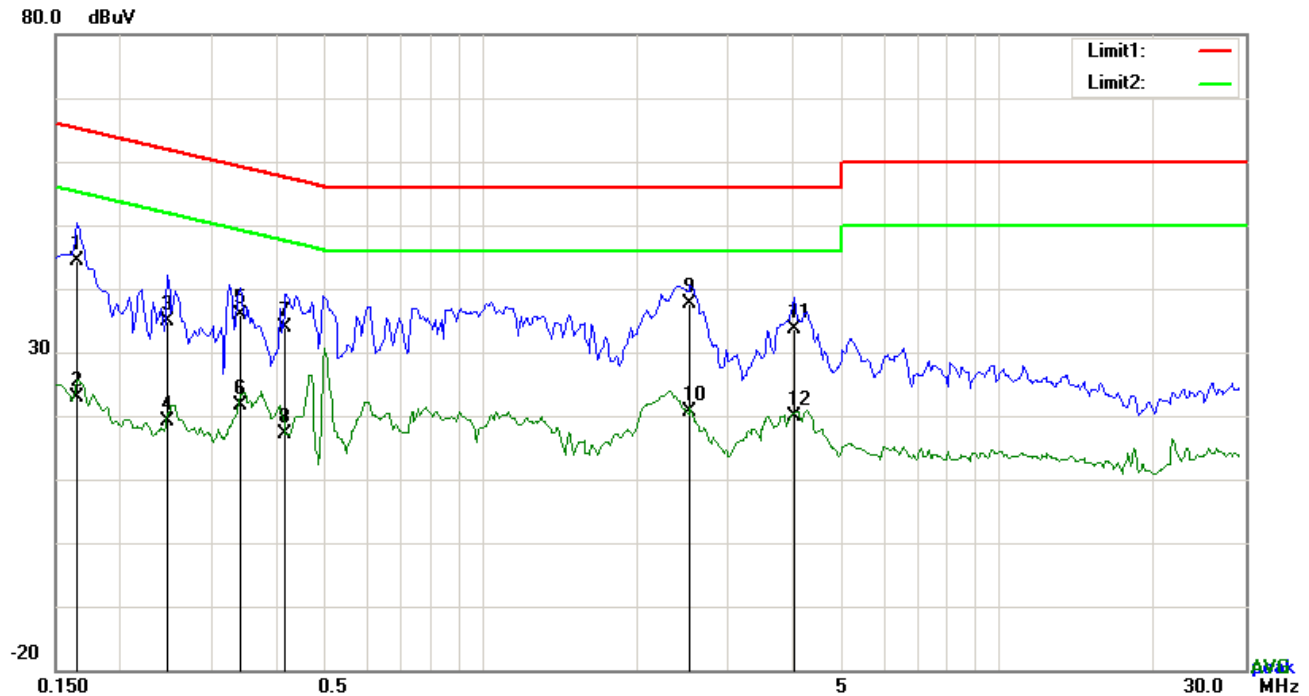


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.2904	24.96	QP	10.03	34.99	60.51	-25.52
2	L1	0.2904	6.53	AVG	10.03	16.56	50.51	-33.95
3	L1	0.4386	31.19	QP	10.03	41.22	57.09	-15.87
4	L1	0.4386	7.98	AVG	10.03	18.01	47.09	-29.08
5	L1	0.5010	30.56	QP	10.03	40.59	56.00	-15.41
6	L1	0.5010	12.60	AVG	10.03	22.63	46.00	-23.37
7	L1	2.5407	25.52	QP	10.05	35.57	56.00	-20.43
8	L1	2.5407	4.02	AVG	10.05	14.07	46.00	-31.93
9	L1	4.3728	24.76	QP	10.07	34.83	56.00	-21.17
10	L1	4.3728	7.20	AVG	10.07	17.27	46.00	-28.73
11	L1	28.0848	26.28	QP	10.45	36.73	60.00	-23.27
12	L1	28.0848	9.21	AVG	10.45	19.66	50.00	-30.34

Test Mode: Bluetooth Mode

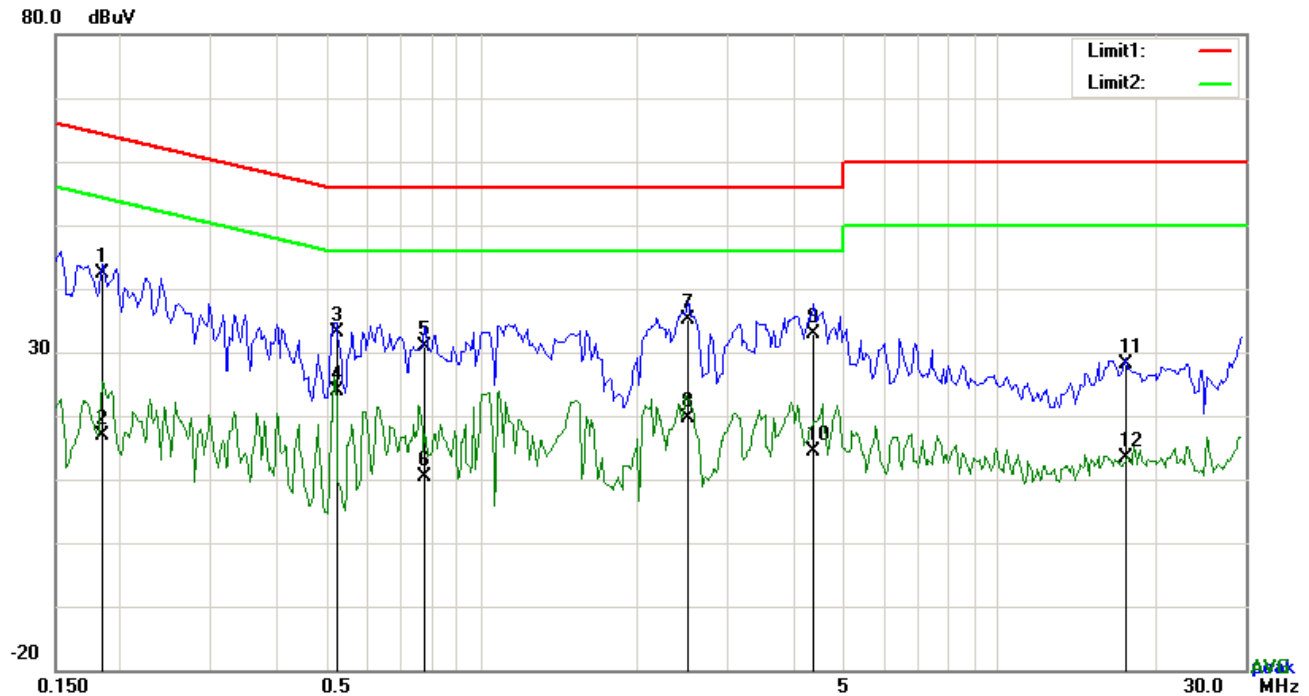


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1656	34.32	QP	10.02	44.34	65.18	-20.84
2	N	0.1656	12.81	AVG	10.02	22.83	55.18	-32.35
3	N	0.2475	24.92	QP	10.02	34.94	61.84	-26.90
4	N	0.2475	9.12	AVG	10.02	19.14	51.84	-32.70
5	N	0.3411	25.91	QP	10.02	35.93	59.18	-23.25
6	N	0.3411	11.53	AVG	10.02	21.55	49.18	-27.63
7	N	0.4191	23.82	QP	10.02	33.84	57.47	-23.63
8	N	0.4191	7.21	AVG	10.02	17.23	47.47	-30.24
9	N	2.5290	27.57	QP	10.05	37.62	56.00	-18.38
10	N	2.5290	10.63	AVG	10.05	20.68	46.00	-25.32
11	N	4.0257	23.57	QP	10.06	33.63	56.00	-22.37
12	N	4.0257	9.84	AVG	10.06	19.90	46.00	-26.10

Test Mode: Bluetooth Mode

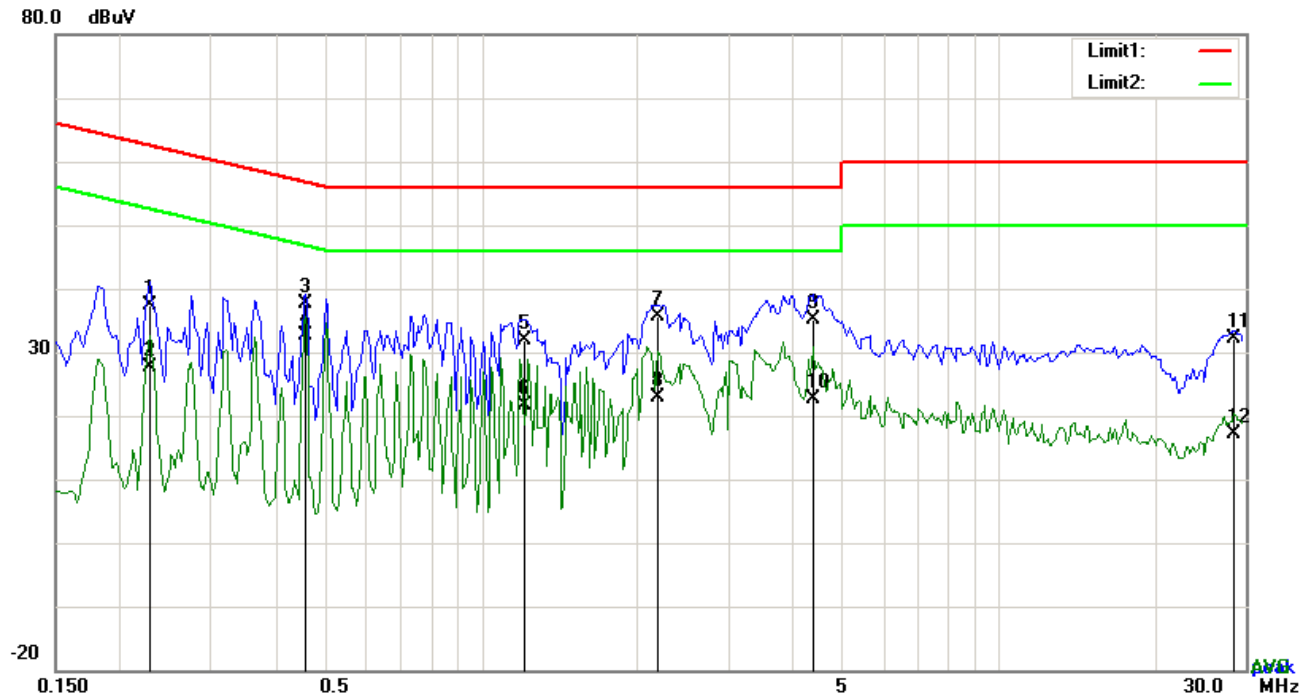


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1851	32.43	QP	10.03	42.46	64.25	-21.79
2	L1	0.1851	6.76	AVG	10.03	16.79	54.25	-37.46
3	L1	0.5244	23.15	QP	10.03	33.18	56.00	-22.82
4	L1	0.5244	13.93	AVG	10.03	23.96	46.00	-22.04
5	L1	0.7779	20.97	QP	10.03	31.00	56.00	-25.00
6	L1	0.7779	0.32	AVG	10.03	10.35	46.00	-35.65
7	L1	2.5095	24.98	QP	10.05	35.03	56.00	-20.97
8	L1	2.5095	9.59	AVG	10.05	19.64	46.00	-26.36
9	L1	4.3884	22.89	QP	10.07	32.96	56.00	-23.04
10	L1	4.3884	4.36	AVG	10.07	14.43	46.00	-31.57
11	L1	17.5782	17.97	QP	10.26	28.23	60.00	-31.77
12	L1	17.5782	3.18	AVG	10.26	13.44	50.00	-36.56

Test Mode: Bluetooth Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

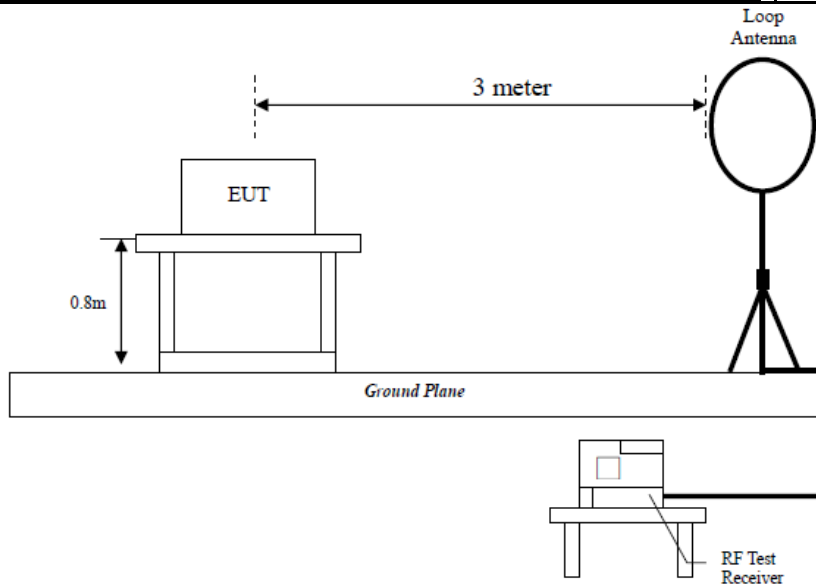
No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.2280	27.48	QP	10.02	37.50	62.52	-25.02
2	N	0.2280	17.73	AVG	10.02	27.75	52.52	-24.77
3	N	0.4581	27.64	QP	10.02	37.66	56.73	-19.07
4	N	0.4581	22.57	AVG	10.02	32.59	46.73	-14.14
5	N	1.2108	21.93	QP	10.03	31.96	56.00	-24.04
6	N	1.2108	11.55	AVG	10.03	21.58	46.00	-24.42
7	N	2.1936	25.51	QP	10.04	35.55	56.00	-20.45
8	N	2.1936	12.75	AVG	10.04	22.79	46.00	-23.21
9	N	4.3728	25.09	QP	10.06	35.15	56.00	-20.85
10	N	4.3728	12.48	AVG	10.06	22.54	46.00	-23.46
11	N	28.5333	21.63	QP	10.40	32.03	60.00	-27.97
12	N	28.5333	6.69	AVG	10.40	17.09	50.00	-32.91

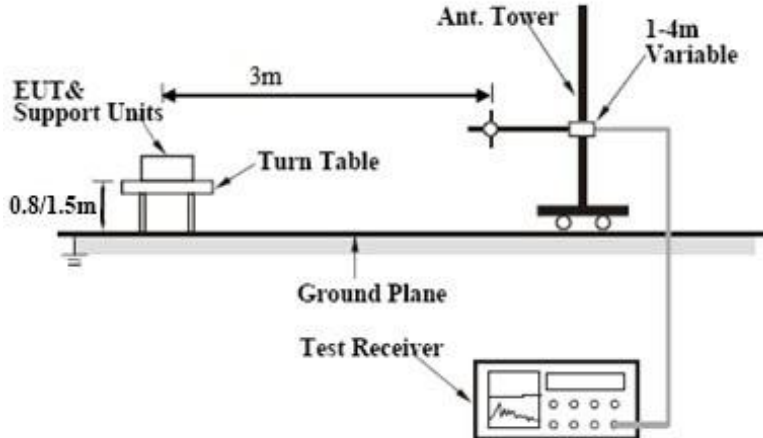
6.9 Radiated Emissions & Restricted Band

Temperature	24°C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	September 05, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable																
47CFR§15.205, §15.209, §15.247(d)	a)	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	<div><input checked="" type="checkbox"/></div>																
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (µV/m)</th></tr><tr><td>0.009~0.490</td><td>2400/F(KHz)</td></tr><tr><td>0.490~1.705</td><td>24000/F(KHz)</td></tr><tr><td>1.705~30.0</td><td>30</td></tr><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></table>		Frequency range (MHz)	Field Strength (µV/m)	0.009~0.490	2400/F(KHz)	0.490~1.705	24000/F(KHz)	1.705~30.0	30	30 – 88	100	88 – 216	150	216 960	200	Above 960	500
		Frequency range (MHz)		Field Strength (µV/m)															
		0.009~0.490		2400/F(KHz)															
		0.490~1.705		24000/F(KHz)															
		1.705~30.0		30															
		30 – 88		100															
		88 – 216		150															
		216 960		200															
		Above 960		500															

Test Setup	 <p>The diagram illustrates the test setup for radiated emissions. It shows an Equipment Under Test (EUT) placed on a stand that is 0.8m high. A Loop Antenna is positioned 3 meters away from the EUT. The entire setup is on a Ground Plane. An RF Test Receiver is connected to the antenna.</p>
------------	---

	
Procedure	<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. 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"> Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. 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. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Result:

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

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
--	--	--	--	--	--	>20
--	--	--	--	--	--	>20

Note:

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

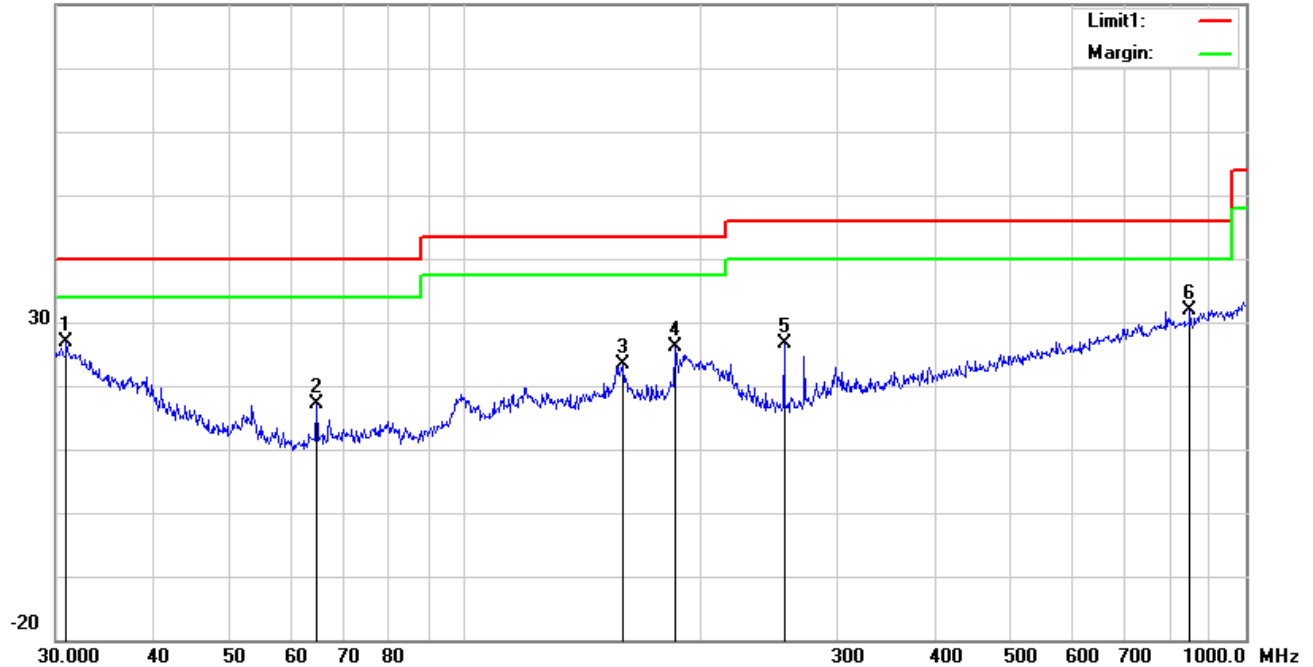
Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Test Mode: Bluetooth Mode

30MHz -1GHz

80.0 dBuV/m



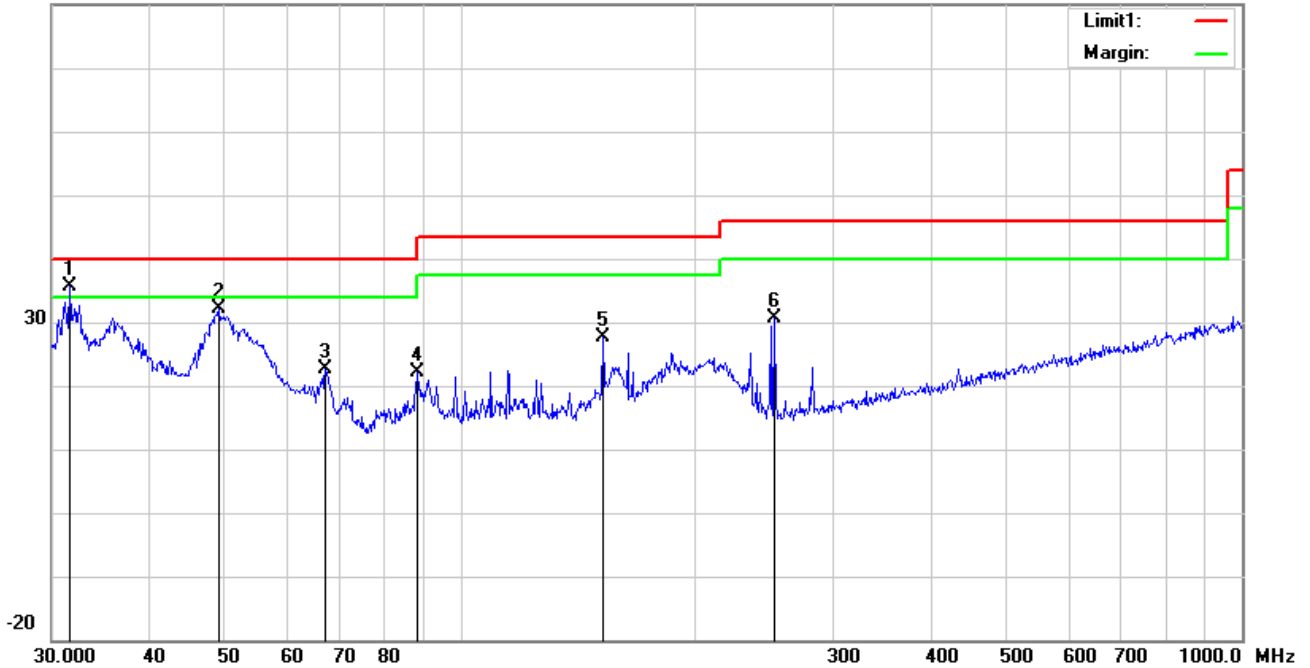
Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	H	30.9619	27.74	peak	20.66	22.27	0.65	26.78	40.00	-13.22	100	37
2	H	64.6594	31.09	peak	7.53	22.40	0.87	17.09	40.00	-22.91	200	245
3	H	159.2251	31.65	peak	12.60	22.28	1.39	23.36	43.50	-20.14	100	50
4	H	186.4409	35.65	peak	11.35	22.29	1.48	26.19	43.50	-17.31	100	115
5	H	256.5211	35.53	peak	11.69	22.29	1.71	26.64	46.00	-19.36	100	246
6	H	848.0563	28.00	peak	21.93	21.02	2.87	31.78	46.00	-14.22	100	224

30MHz -1GHz

80.0 dBuV/m



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	31.6202	37.00	QP	20.15	22.27	0.67	35.55	40.00	-4.45	100	233
2	V	49.0145	44.98	peak	8.83	22.36	0.79	32.24	40.00	-7.76	100	247
3	V	67.2022	36.54	peak	7.66	22.39	0.92	22.73	40.00	-17.27	100	334
4	V	88.0329	35.63	peak	7.92	22.34	1.00	22.21	43.50	-21.29	100	245
5	V	152.1297	36.06	peak	12.60	22.33	1.35	27.68	43.50	-15.82	100	116
6	V	252.0627	39.76	peak	11.49	22.29	1.70	30.66	46.00	-15.34	200	31

Above 1GHz

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

Low Channel: GFSK Mode (Worst Case) (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	38.82	AV	V	33.39	7.22	48.46	30.97	54	-23.03
4804	40.44	AV	H	33.39	7.22	48.46	32.59	54	-21.41
4804	49.23	PK	V	33.39	7.22	48.46	41.38	74	-32.62
4804	45.59	PK	H	33.39	7.22	48.46	37.74	74	-36.26
6812	25.07	AV	V	36.88	7.94	49.17	20.72	54	-33.28
6812	24.07	AV	H	36.88	7.94	49.17	19.72	54	-34.28
6812	40.94	PK	V	36.88	7.94	49.17	36.59	74	-37.41
6812	42.1	PK	H	36.88	7.94	49.17	37.75	74	-36.25

Middle Channel: GFSK Mode (Worst Case) (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	38.22	AV	V	33.62	7.53	48.36	31.01	54	-22.99
4882	39.82	AV	H	33.62	7.53	48.36	32.61	54	-21.39
4882	48.74	PK	V	33.62	7.53	48.36	41.53	74	-32.47
4882	46.48	PK	H	33.62	7.53	48.36	39.27	74	-34.73
12457	24.84	AV	V	40.44	13.42	46.15	32.55	54	-21.45
12457	23.98	AV	H	40.44	13.42	46.15	31.69	54	-22.31
12457	41.67	PK	V	40.44	13.42	46.15	49.38	74	-24.62
12457	41.42	PK	H	40.44	13.42	46.15	49.13	74	-24.87

High Channel: GFSK Mode (Worst Case) (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	36.64	AV	V	33.89	7.86	48.31	30.08	54	-23.92
4960	37.4	AV	H	33.89	7.86	48.31	30.84	54	-23.16
4960	47.07	PK	V	33.89	7.86	48.31	40.51	74	-33.49
4960	46.82	PK	H	33.89	7.86	48.31	40.26	74	-33.74
17862	24.33	AV	V	42.56	18.45	45.54	39.8	54	-14.2
17862	23.6	AV	H	42.56	18.45	45.54	39.07	54	-14.93
17862	41.47	PK	V	42.56	18.45	45.54	56.94	74	-17.06
17862	40.8	PK	H	42.56	18.45	45.54	56.27	74	-17.73

Note:

1, The testing has been conformed to $10 \times 2480 \text{ MHz} = 24,800 \text{ MHz}$

2, All other emissions more than 30 dB below the limit

3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
ISN	ISN T800	34373	09/24/2016	09/23/2017	<input type="checkbox"/>
Transient Limiter	LIT-153	531118	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/30/2017	08/29/2018	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	<input checked="" type="checkbox"/>
Horn Antenna	BBHA9170	3145226D1	09/28/2016	09/27/2017	<input checked="" type="checkbox"/>
Active Antenna (9kHz-30MHz)	AL-130	121031	10/13/2016	10/12/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>

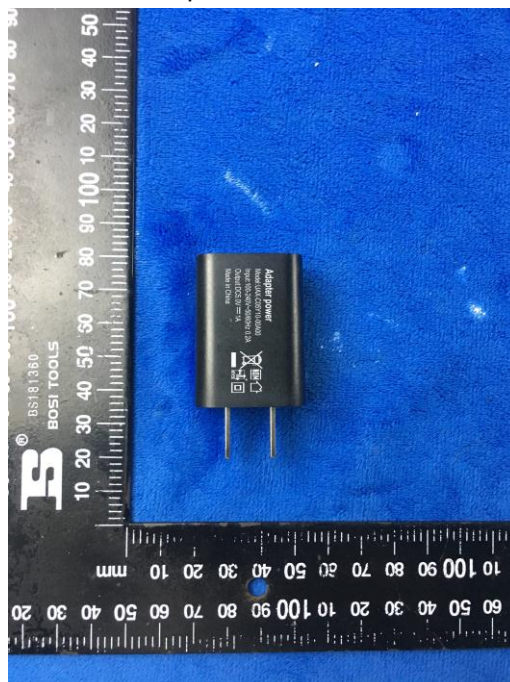
Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable 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



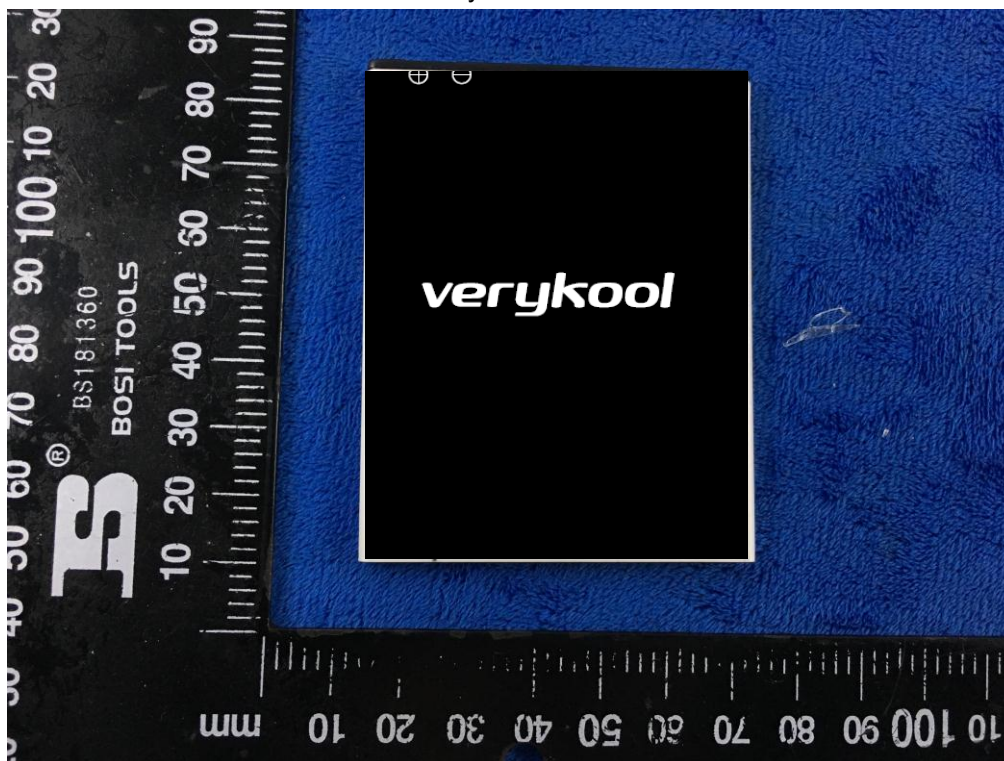
Cover Off - Top View 2



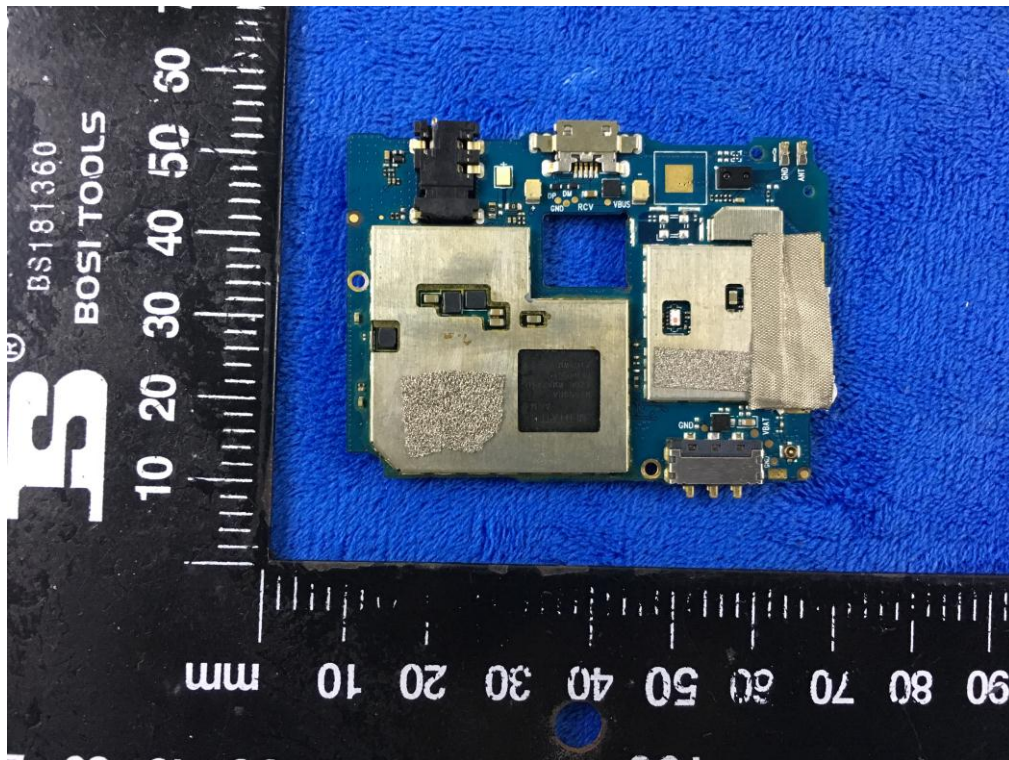
Battery - Front View



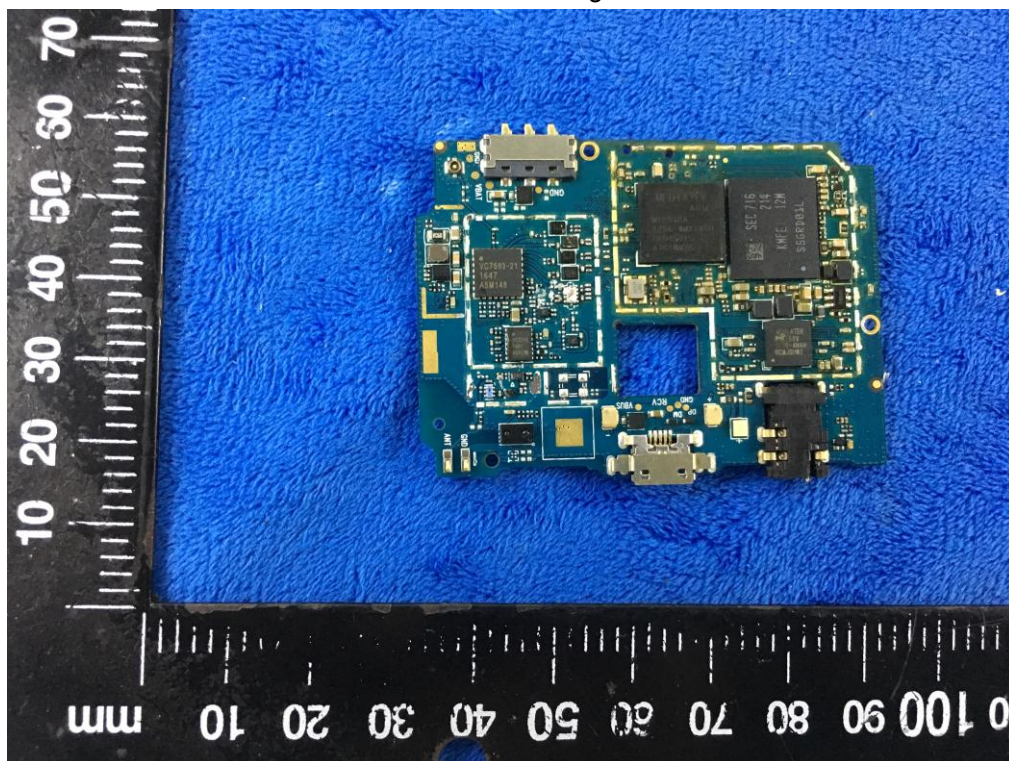
Battery - Rear View



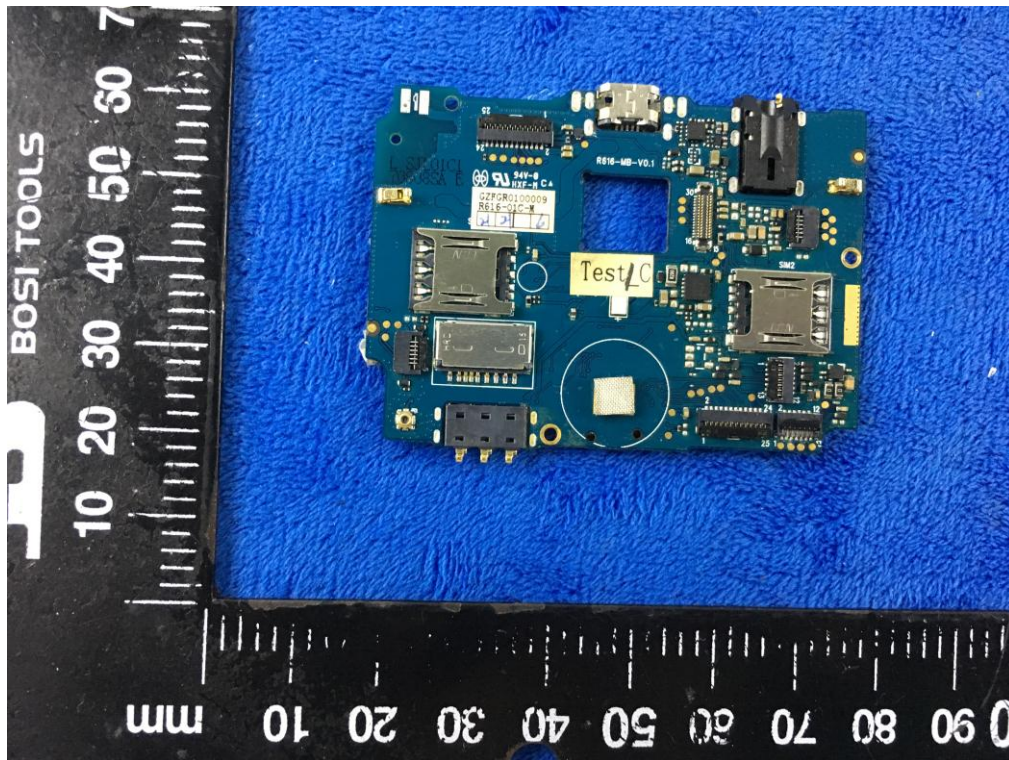
Mainboard with Shielding - Front View



Mainboard without Shielding - Front View



Mainboard– Rear View



LCD – Front View



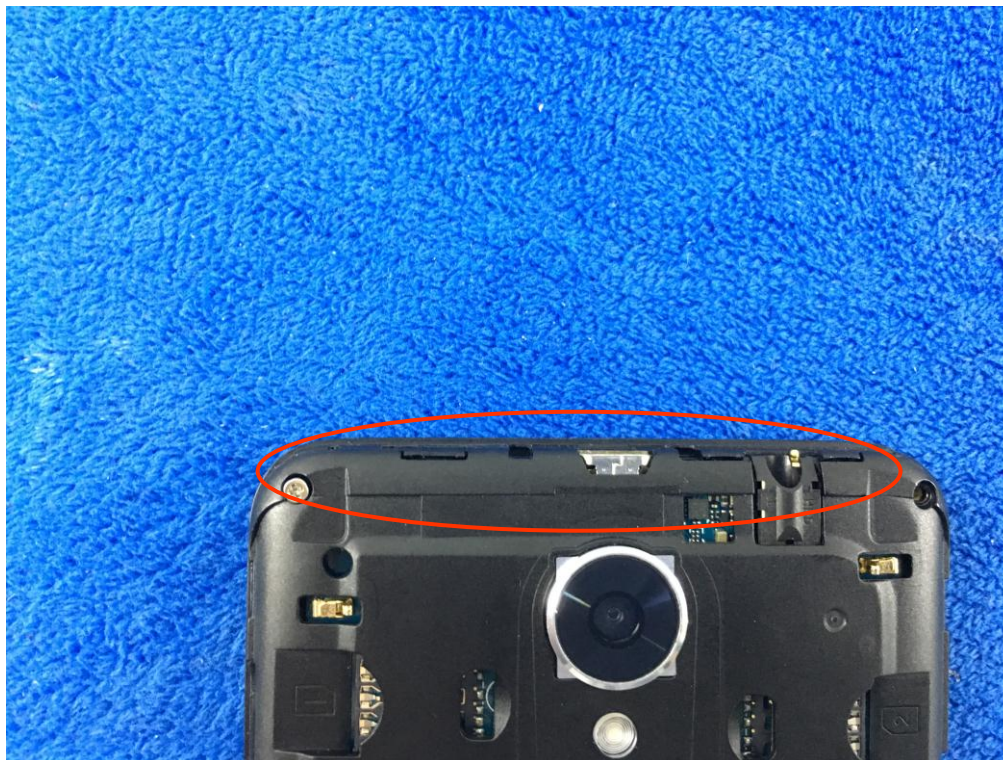
LCD – Rear View



GSM/PCS/UMTS-FDD Antenna View



WIFI/BT/BLE/GPS - Antenna View



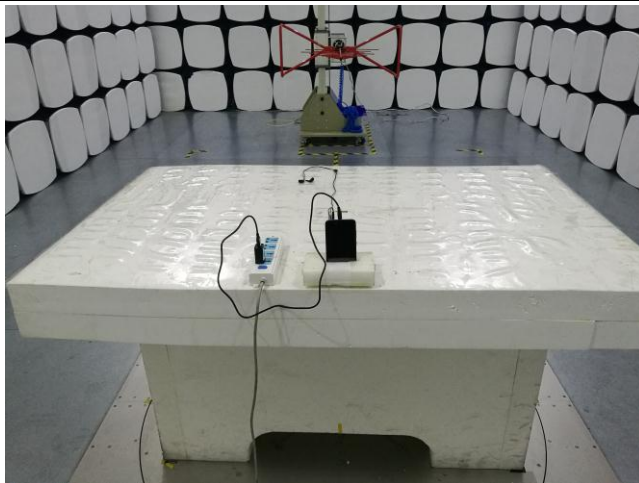
Annex B.iii. Photograph: Test Setup Photo



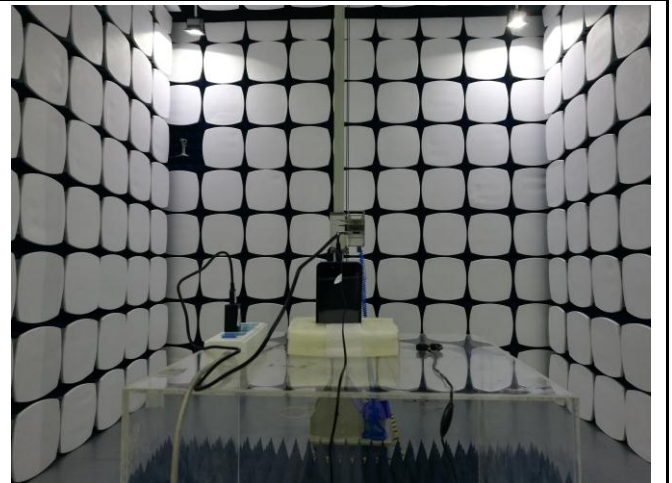
Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



Radiated Spurious Emissions Test Setup Below 1GHz

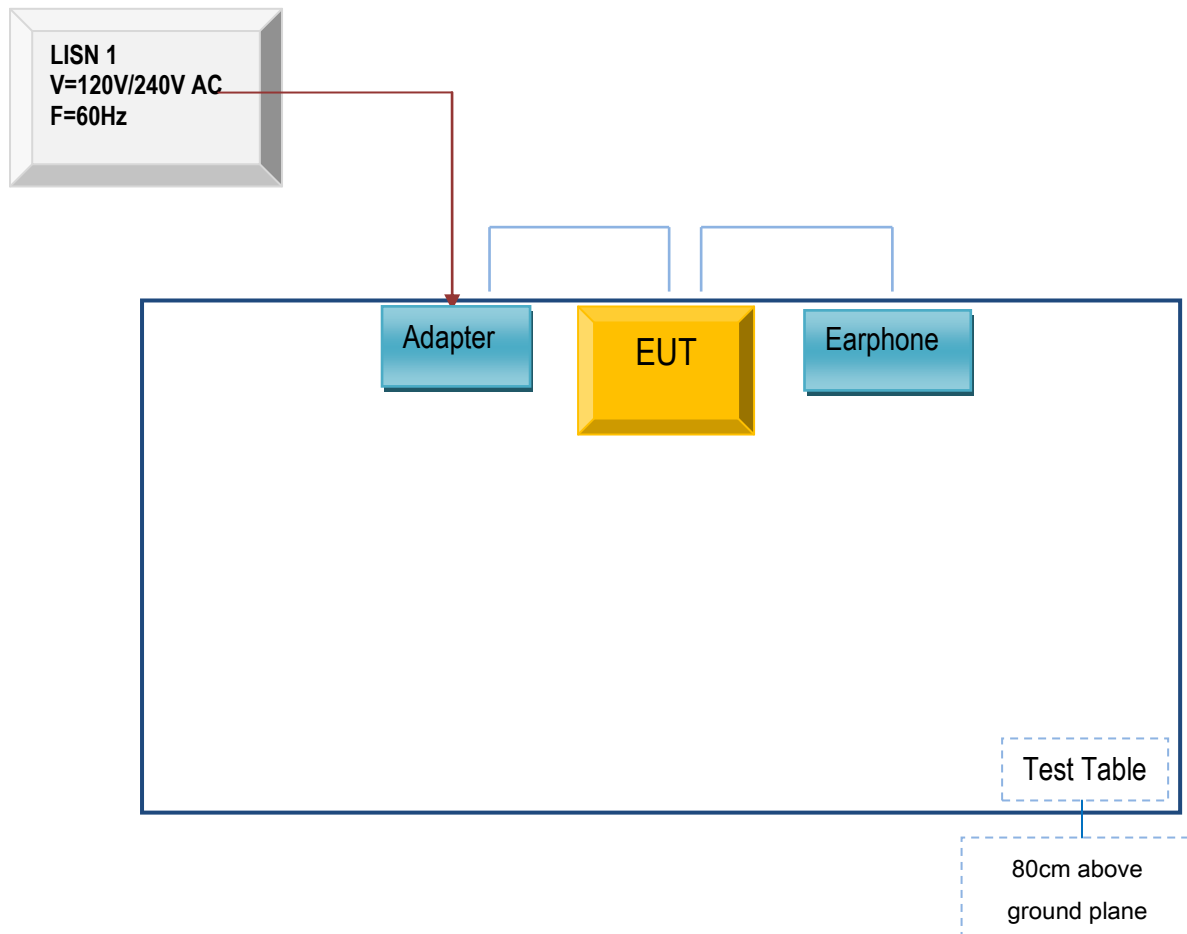


Radiated Spurious Emissions Test Setup Above
1GHz

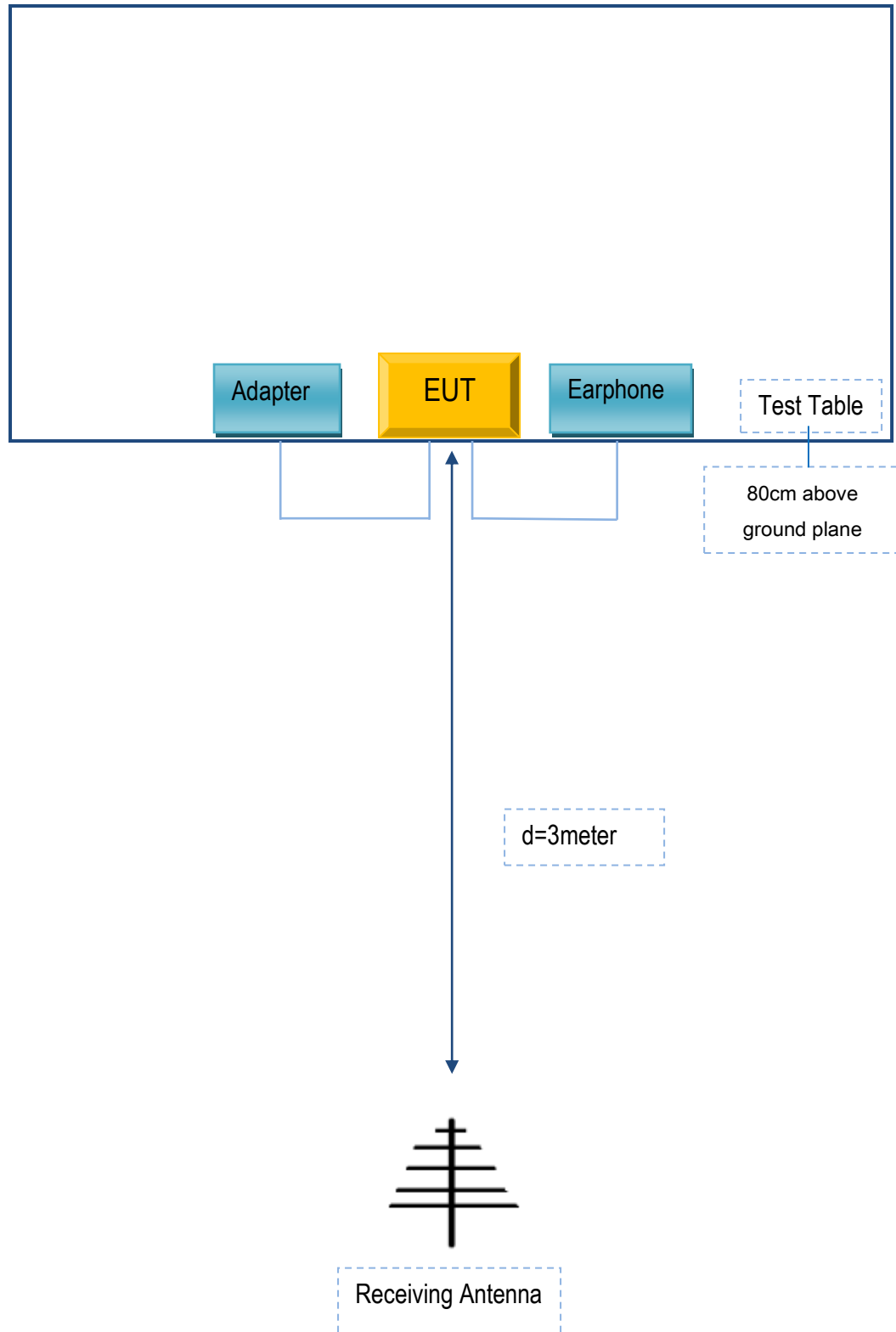
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

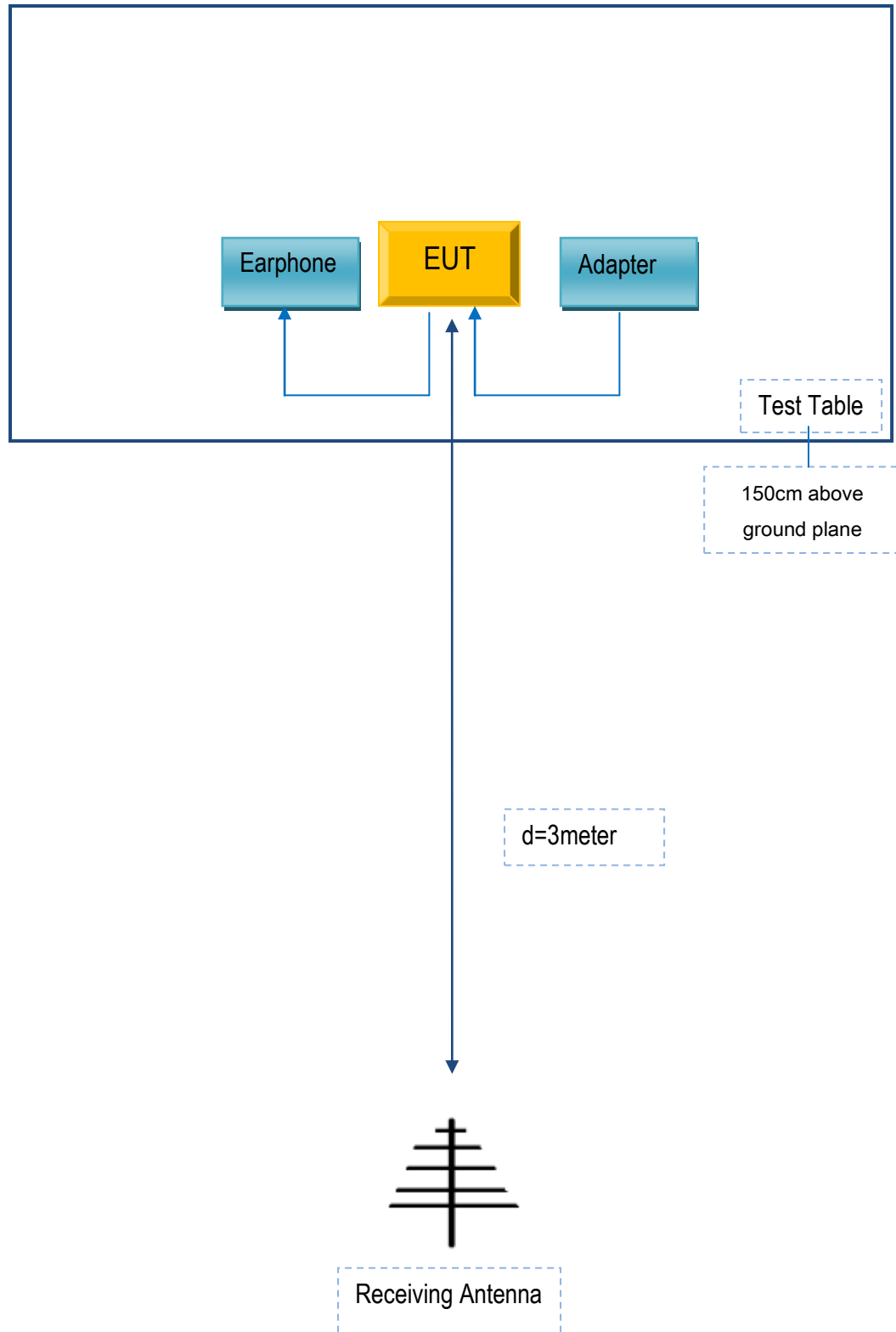
Block Configuration Diagram for AC Line Conducted Emissions



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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Verykool USA Inc	Adapter	s5205	N/A
Verykool USA Inc	Earphone	s5205	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A

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

Please see the attachment

Annex E. DECLARATION OF SIMILARITY

Verykool USA Inc

To: 775 Montague Expressway Mlpitas,CA 95035,USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list serial model numbers on The FCC reports, as following:

Model No:, s5205

Serial Model No: s5204

We declare that : s5205, s5204 all models the same PCB and Appearance shape, accessories ,the difference of these is listed as below:

Main Model No	Serial Model No	Difference
s5205	s5204	The only difference between s5205 and s5204 is the front camera change from 8+8 (5+5AFHW) to 5+8 (2+5AFHW)

Thank you!

Sincerely,

Client's signature :



Client's name: Sunny Choi

Title : Product Director

Date:9/1/2017

Contact information : Verykool USA Inc

Address : 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States