RF TEST REPORT

Report No.: 16070822-FCC-R1

Supersede Report No.: N/A

Applicant	AOC
Product Name	Tablet PC
Model No.	A725
Serial No.	A721,A722,A723,A724,A726,A727,A728,A729
Test Standard	FCC Part 15.247: 2015, ANSI C63.10: 2013
Test Date	July 22 to August 05, 2016
Issue Date	August 06, 2016
Test Result	☑ Pass ☐ Fail
Equipment complied with the specification	☑
Equipment did not comply with the specification	☐

Loren Luo	David Huang	
Loren Luo Test Engineer	David Huang Checked By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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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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CONTENTS

1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070822-FCC-R1	NONE	Original	August 06, 2016

2. Customer information

Applicant Name	AOC
Applicant Add	14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan
Manufacturer	China Great Wall Computer Shenzhen Co., Ltd.
Manufacturer Add	No.Great Wall Computer Industrial Park,Bao Shi East Road,Bao' an Bistrict,Shenzhen,P.R.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:	Tablet PC
Main Model:	A725
Serial Model:	A721,A722,A723,A724,A726,A727,A728,A729
Date EUT received:	July 21, 2016
Test Date(s):	July 22 to August 05, 2016
Equipment Category：	DSS
ntenna Gain:	Bluetooth/BLE/WIFI: 0dBi
Antenna Type:	PIFA antenna
Type of Modulation:	802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK
RF Operating Frequency (ies):	WIFI: 802.11b/g/n(20M): 2412-2472 MHz Bluetooth& BLE: 2402-2480 MHz
Max. Output Power:	4.068dBm
Number of Channels:	WIFI :802.11b/g/n(20M): 13CH Bluetooth: 79CH BLE: 40CH
Port:	Earphone Port, USB Port，SD Card Port

Input Power:	Adapter: Model:LFS0501500D-A8S Input: AC 100-240V~50/60Hz;0.5A Output: DC 5.0V,1500mA Battery: Spec: 3.7V,2500mAh(9.25Wh)
Trade Name :	AOC
FCC ID:	2AEB5-A725

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 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 1 antennas:
A permanently attached PIFA antenna for Bluetooth/BLE/WIFI, the gain is 0dBi .

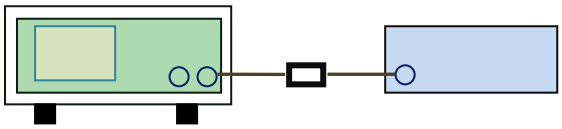
The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 Channel Separation

Temperature	24℃
Relative Humidity	53%
Atmospheric Pressure	1001mbar
Test date :	August 01, 2016
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			
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: - 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.		

Remark	
Result	☑ Pass ☐ 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	1.005	0.961	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.962	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.957	Pass
	Adjacency Channel	2479			
CH Separation π /4 DQPSK	Low Channel	2402	1.002	0.931	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.932	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.931	Pass
	Adjacency Channel	2479			
CH Separation 8DPSK	Low Channel	2402	1.002	0.951	Pass
	Adjacency Channel	2403			
	Mid Channel	2440	1.002	0.951	Pass
	Adjacency Channel	2441			
	High Channel	2480	1.002	0.947	Pass
	Adjacency Channel	2479			

Test Plots

Channel Separation measurement result

GFSK - Low Channel

GFSK - Middle Channel

GFSK - High Channel

π /4 DPSK - Low Channel

π /4 DQPSK - Middle Channel

π /4 DQPSK - High Channel

8DPSK - Low Channel

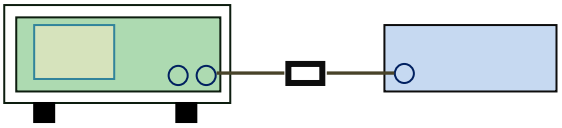
8DPSK - Middle Channel

8DPSK - High Channel

6.3 20dB Bandwidth

Temperature	24℃
Relative Humidity	53%
Atmospheric Pressure	1001mbar
Test date :	August 01, 2016
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			
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: - 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		

	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	☑ Pass ☐ 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	0.9612	0.8772
	Mid	2441	0.9623	0.8732
	High	2480	0.9574	0.8722
π /4 DQPSK	Low	2402	1.397	1.3152
	Mid	2441	1.398	1.3133
	High	2480	1.397	1.3234
8-DPSK	Low	2402	1.426	1.3135
	Mid	2441	1.427	1.3081
	High	2480	1.421	1.3085

Test Plots

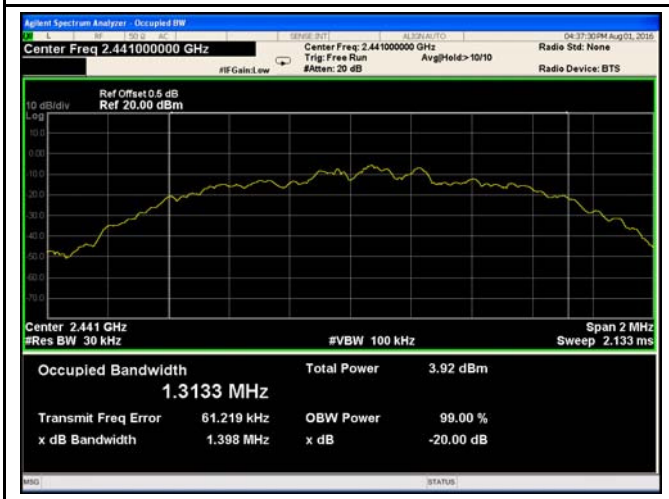
20dB Bandwidth measurement result

GFSK - Low Channel

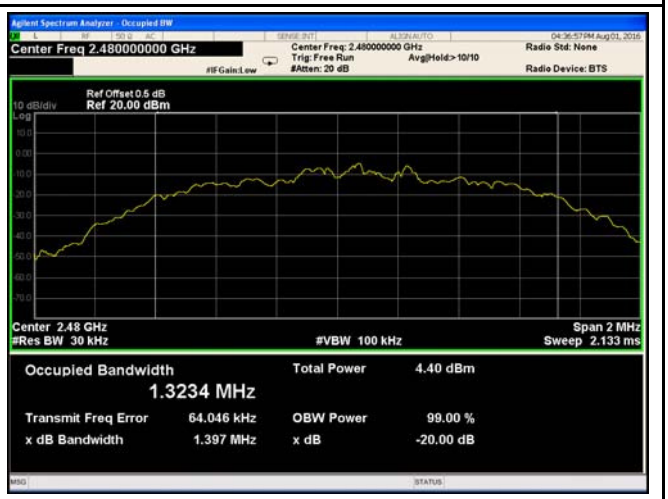
GFSK - Middle Channel

GFSK - High Channel

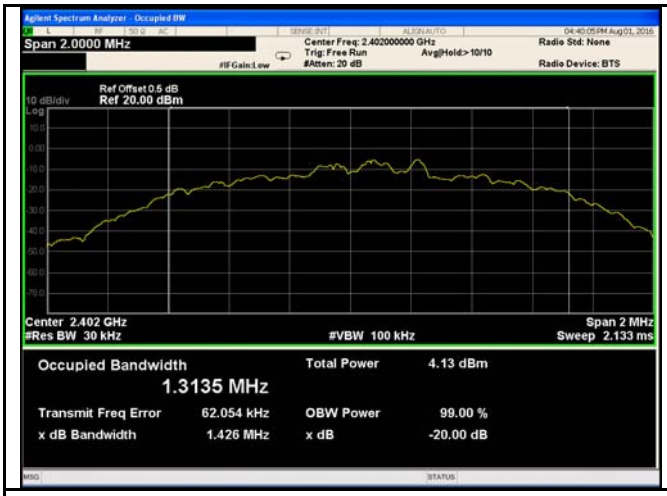
π /4 DPSK - Low Channel



π /4 DQPSK - Middle Channel

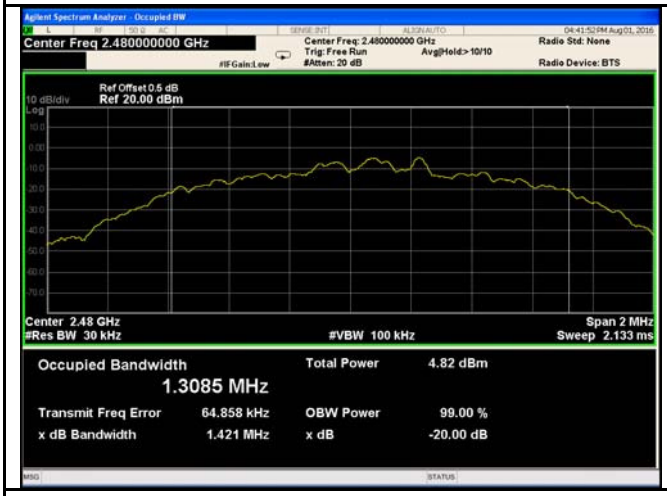


π /4 DQPSK - High Channel



8DPSK - Low Channel

8DPSK - Middle Channel

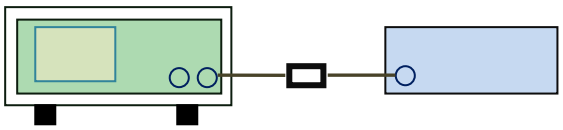


8DPSK - High Channel

6.4 Peak Output Power

Temperature	24℃
Relative Humidity	53%
Atmospheric Pressure	1001mbar
Test date :	August 01, 2016
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	☑
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt	☐
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.	☑
	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt	☐
	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt	☐
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	☐
Test Setup			
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel - RBW > the 20 dB bandwidth of the emission being measured - VBW ≥ RBW - Sweep = auto - Detector function = peak - Trace = max hold - 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	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

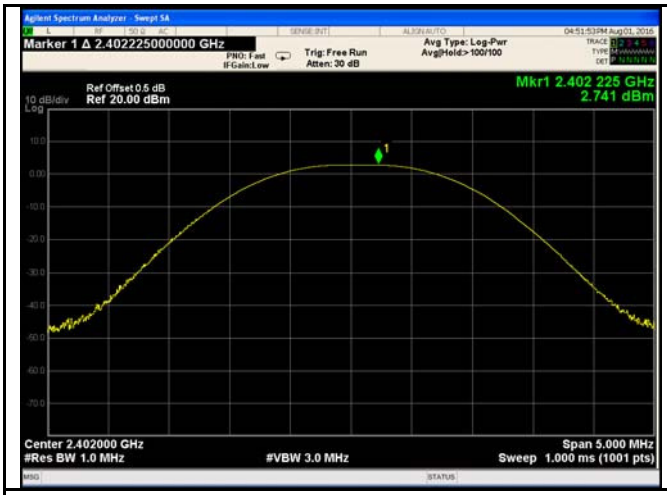
Test Plot ☑ Yes (See below) ☐ N/A

Peak Output Power measurement result

Type	Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Limit (mW)	Result
Output power	GFSK	Low	2402	2.741	1000	Pass
		Mid	2441	2.453	1000	Pass
		High	2480	3.407	1000	Pass
	π /4 DQPSK	Low	2402	3.348	125	Pass
		Mid	2441	3.119	125	Pass
		High	2480	**4.068**	125	Pass
	8-DPSK	Low	2402	3.235	125	Pass
		Mid	2441	3.009	125	Pass
		High	2480	4.051	125	Pass

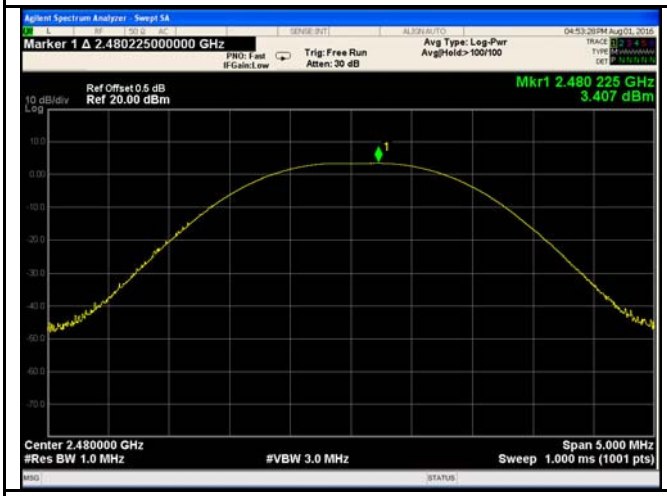
Test Plots

Output Power measurement result

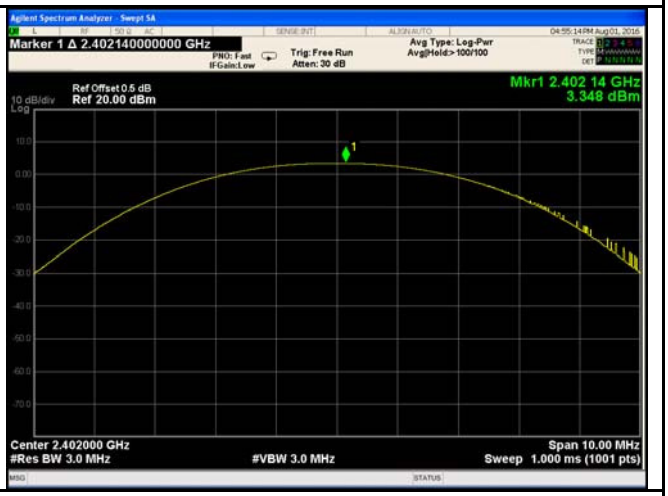


GFSK Output power - Low CH 2402

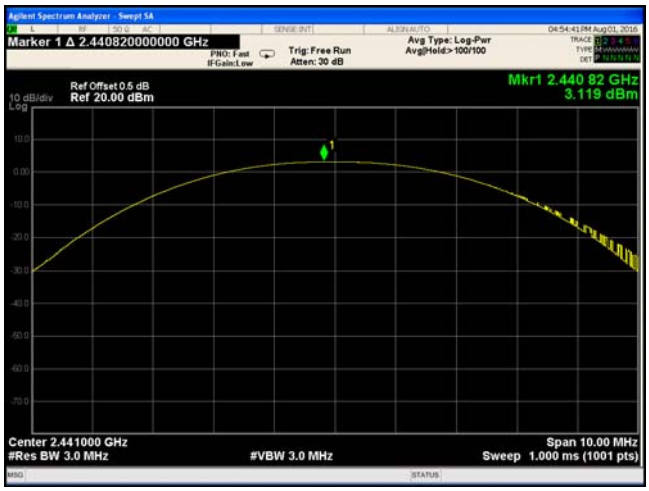
GFSK Output power - Mid CH 2441



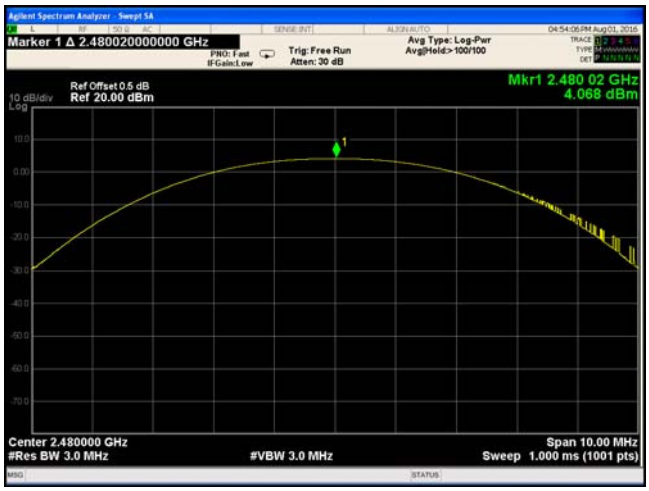
GFSK Output power - High CH 2480



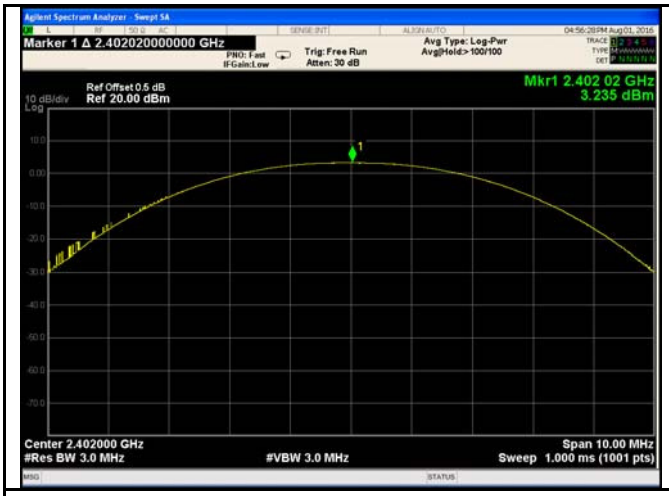
π /4 DQPSK Output power - Low CH 2402



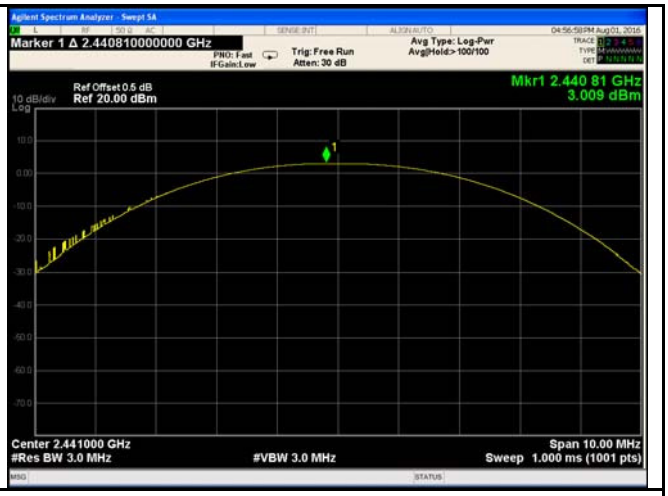
π /4 DQPSK Output power - Mid CH 2441



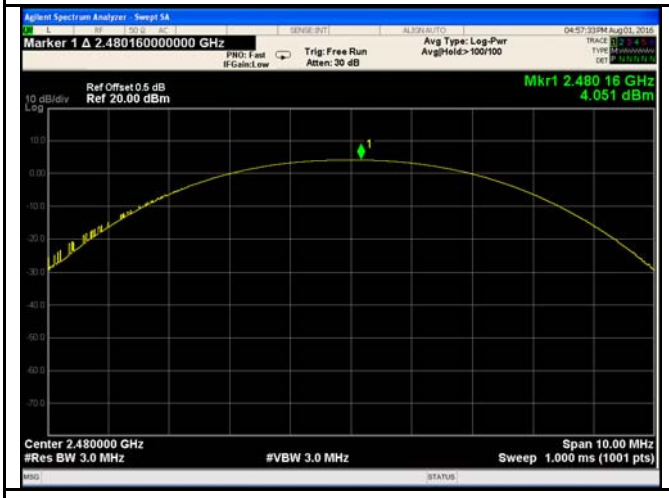
π /4 DQPSK Output power - High CH 2480



8DPSK Output power - Low CH 2402



8DPSK Output power - Mid CH 2441

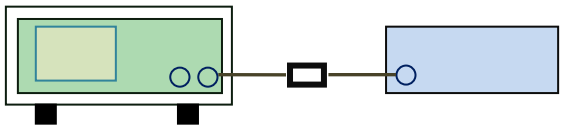


8DPSK Output power - High CH 2480

6.5 Number of Hopping Channel

Temperature	24℃
Relative Humidity	53%
Atmospheric Pressure	1001mbar
Test date :	August 01, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a)(1)(iii)	a)	FHSS in 2400-2483.5MHz ≥ 15 channels	☑
Test Setup			
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer settings: The EUT must have its hopping function enabled. - 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	☑ Pass	☐ Fail	

Test Data ☑ Yes ☐ N/A

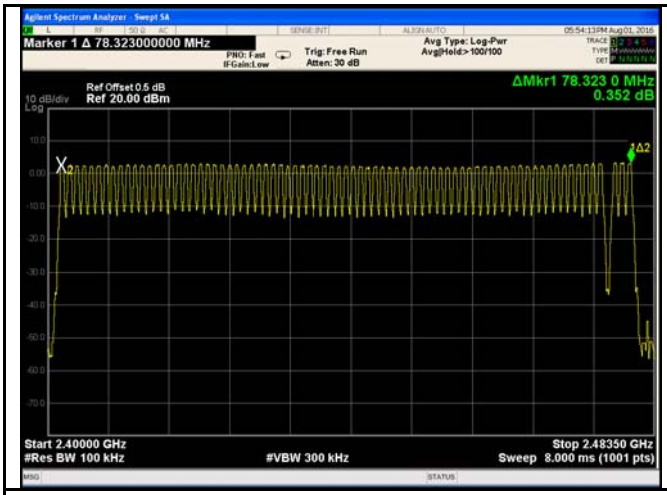
Test Plot ☑ Yes (See below) ☐ N/A

Number of Hopping Channel measurement result

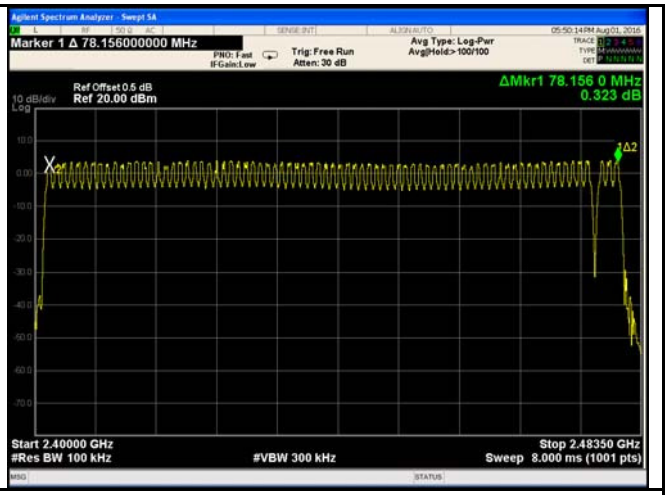
Type	Modulation	Frequency Range	Number of Hopping Channel	Limit
Number of Hopping Channel	GFSK	2400-2483.5	79	15
	π /4 DQPSK	2400-2483.5	79	15
	8-DPSK	2400-2483.5	79	15

Test Plots

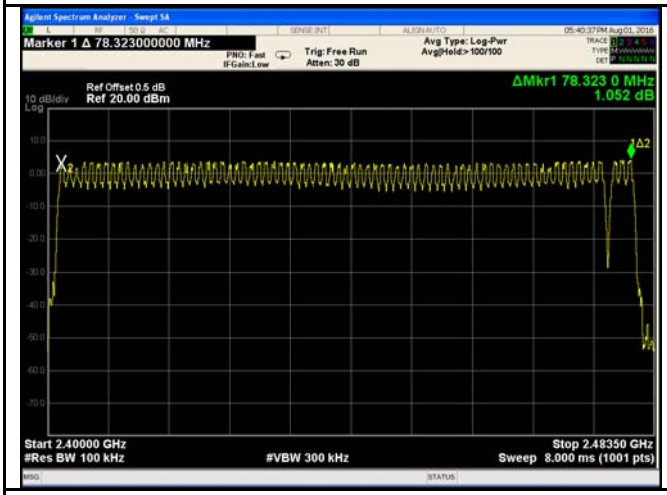
Number of Hopping Channels measurement result



GFSK



π /4DQPSK

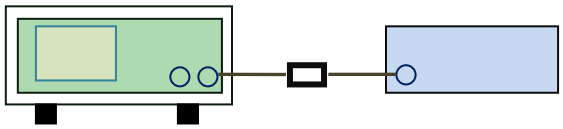


8DPSK

6.6 Time of Occupancy (Dwell Time)

Temperature	24℃
Relative Humidity	53%
Atmospheric Pressure	1001mbar
Test date :	August 01, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(a)(1)(iii)	a)	Dwell Time < 0.4s	☑
Test Setup			
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Use the following spectrum analyzer - 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	☑ Pass ☐ Fail		

Test Data ☑ Yes ☐ N/A

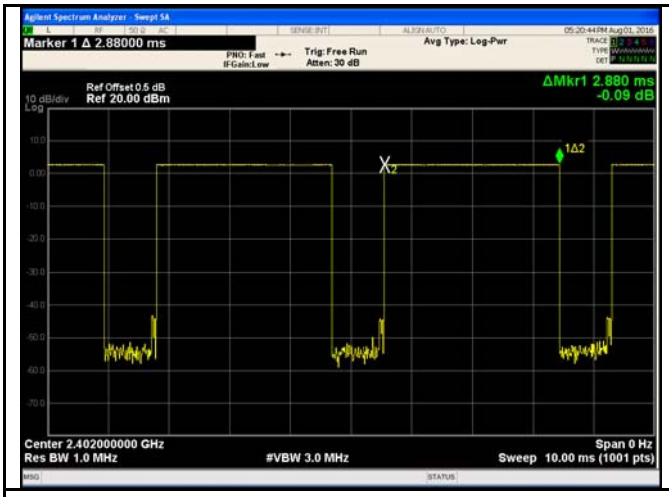
Test Plot ☑ Yes (See below) ☐ N/A

Dwell Time measurement result

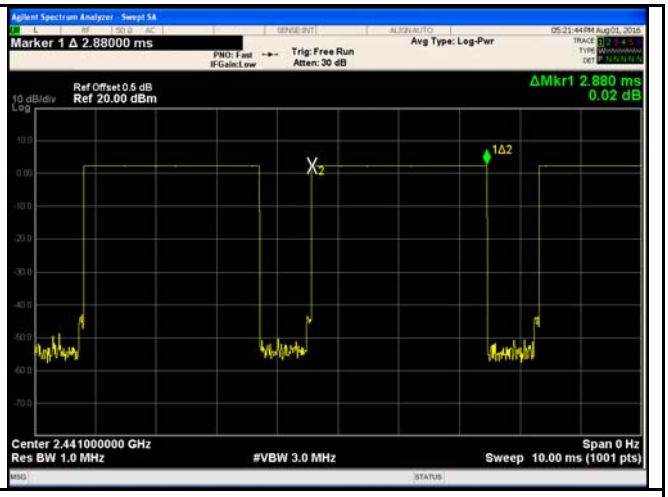
Type	Modulation	CH	Pulse Width (ms)	Dwell Time (ms)	Limit (ms)	Result
Dwell Time	GFSK	Low	2.880	307.200	400	Pass
		Mid	2.880	307.200	400	Pass
		High	2.870	306.133	400	Pass
	π /4 DQPSK	Low	2.890	308.267	400	Pass
		Mid	2.890	308.267	400	Pass
		High	2.890	308.267	400	Pass
	8-DPSK	Low	2.880	307.200	400	Pass
		Mid	2.890	308.267	400	Pass
		High	2.890	308.267	400	Pass
Note: Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6						

Test Plots

Dwell Time measurement result

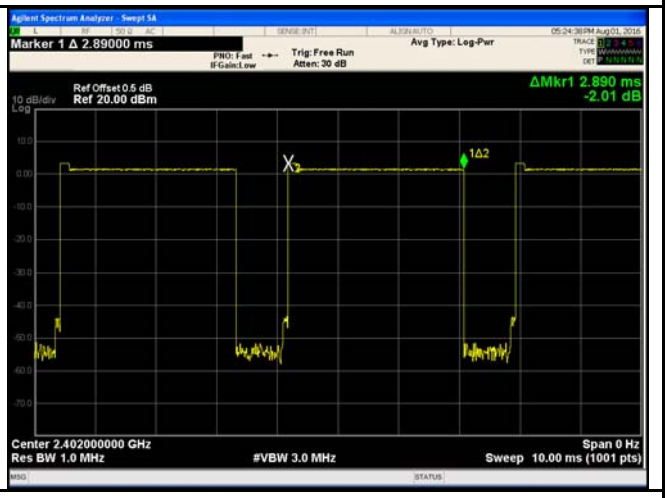


GFSK - Low CH 2402

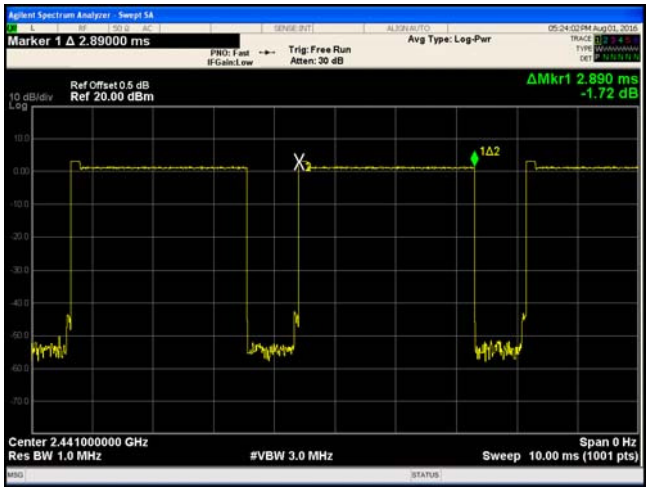


GFSK - Mid CH 2441

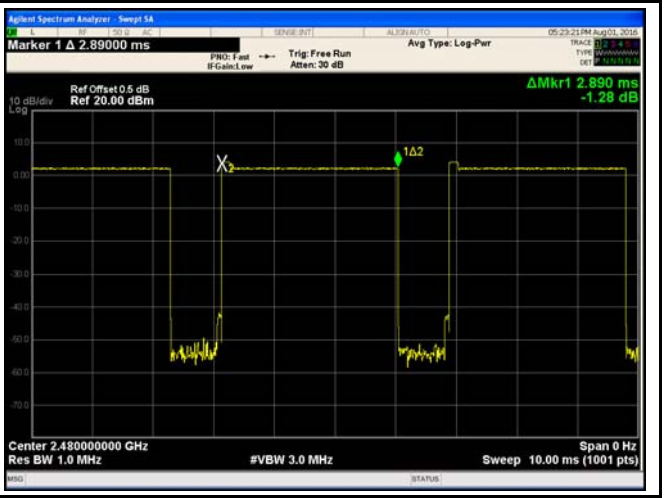
GFDK - High CH 2480



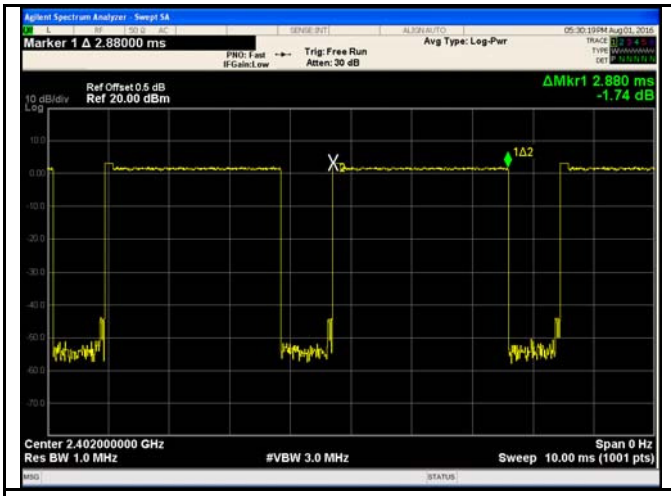
π /4 DQPSK - Low CH 2402



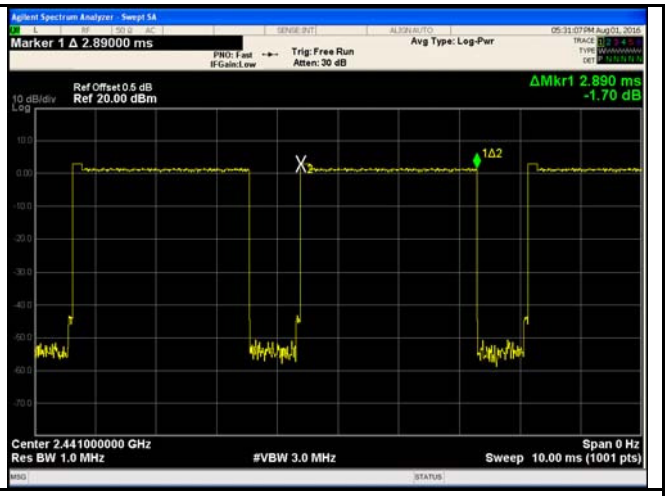
π /4 DQPSK - Mid CH 2441



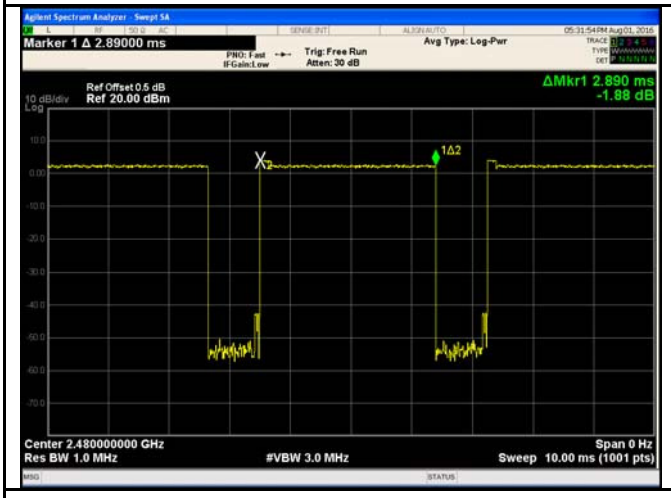
π /4 DQPSK - High CH 2480



8DPSK - Low CH 2402



8DPSK - Mid CH 2441

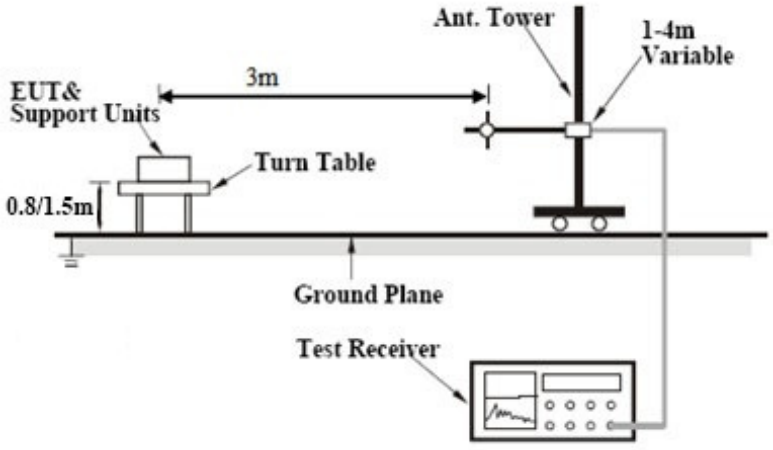


8DPSK - High CH 2480

6.7 Band Edge & Restricted Band

Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1004mbar
Test date :	August 04, 2016
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.	☑
Test Setup			
Test Procedure	The test follows FCC Public Notice DA 00-705 Measurement Guidelines. Radiated Method Only - 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,		

	and make sure the instrument is operated in its linear range. - 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: 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	☑ Pass ☐ Fail

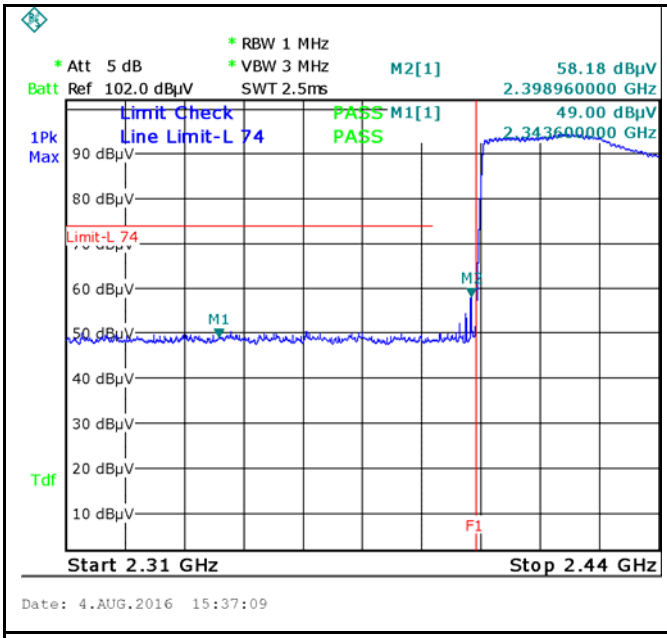
Test Data ☐ Yes ☑ N/A

Test Plot ☑ Yes (See below) ☐ N/A

Radiated method:

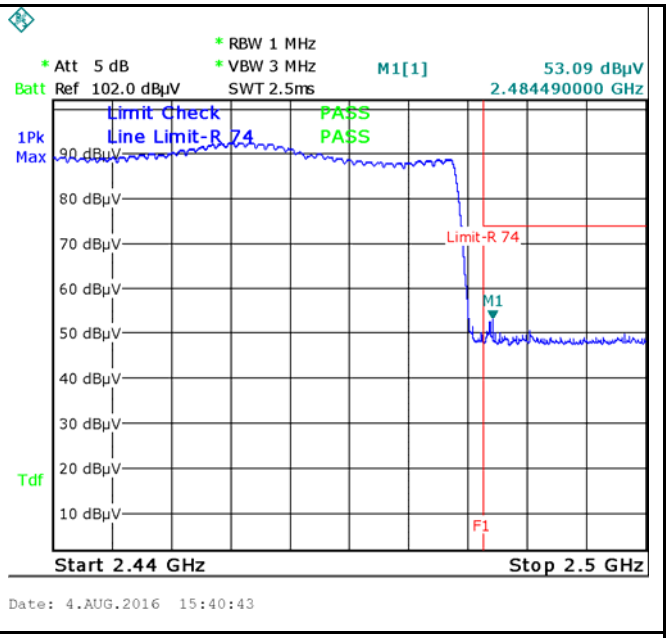
Test Plots

GFSK Mode:



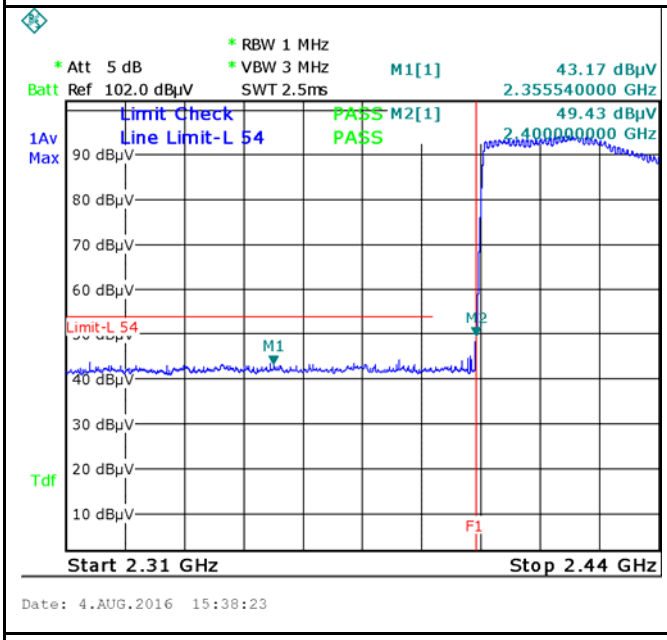
GFSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



GFSK-Hopping Right Side-PK

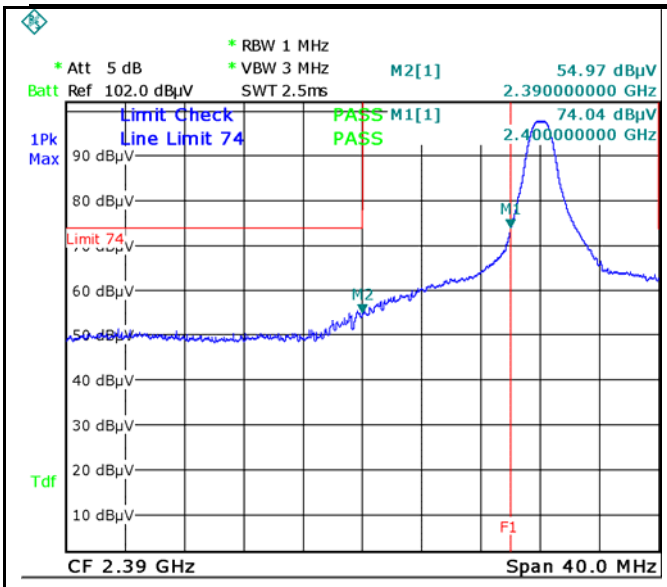
Note: F1 is frequency 2483.5MHz



GFSK-Hopping Left Side-AV

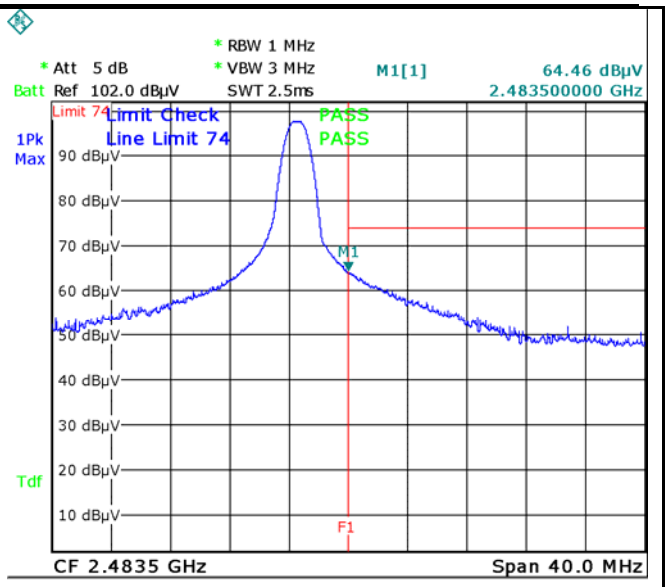
Note: (no need if PK value less than the AV limit)

GFSK-Hopping Right Side-AV



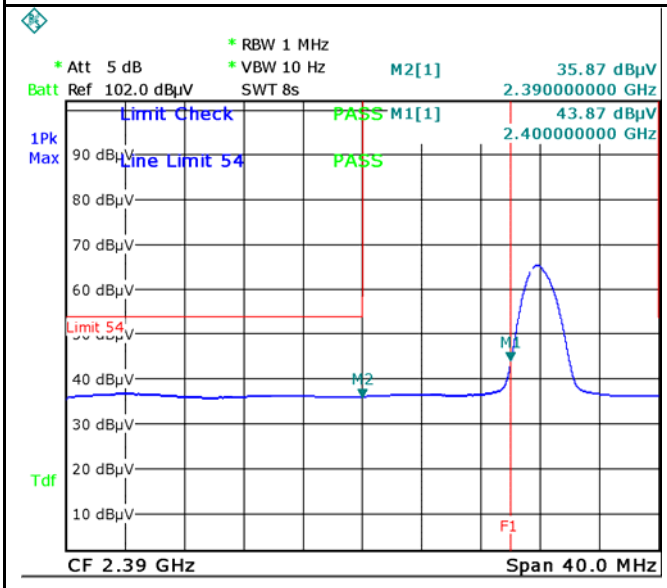
GFSK-Left Side-PK

Note: F1 is frequency 2400MHz

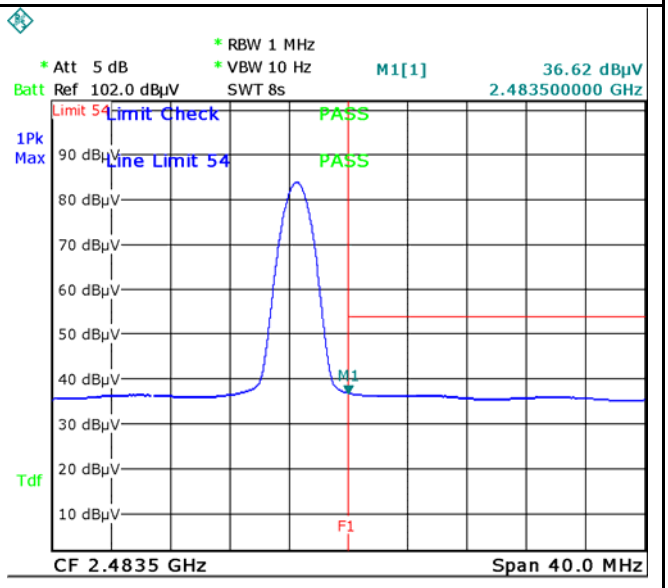


GFSK-Right Side-PK

Note: F1 is frequency 2483.5MHz

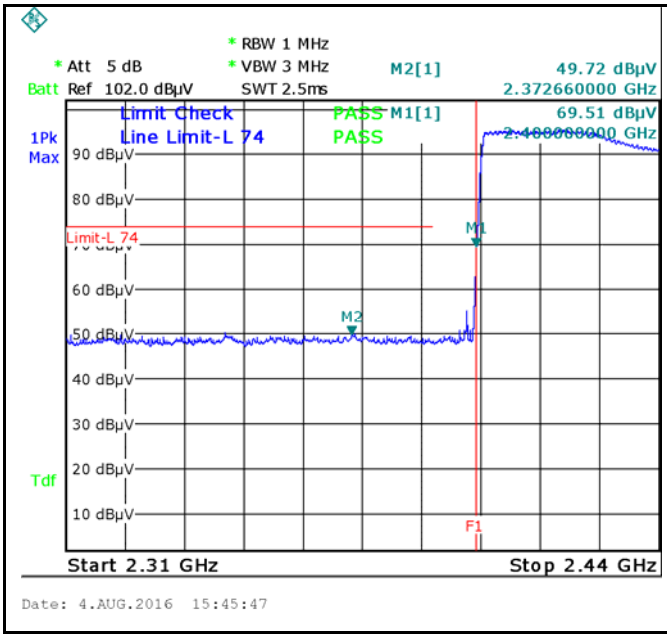


GFSK-Left Side-AV



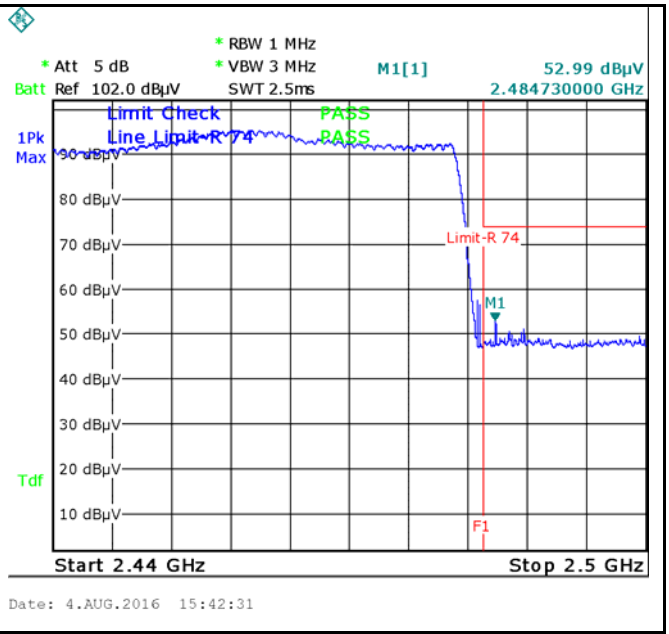
GFSK-Right Side-AV

π /4 DQPSK Mode:



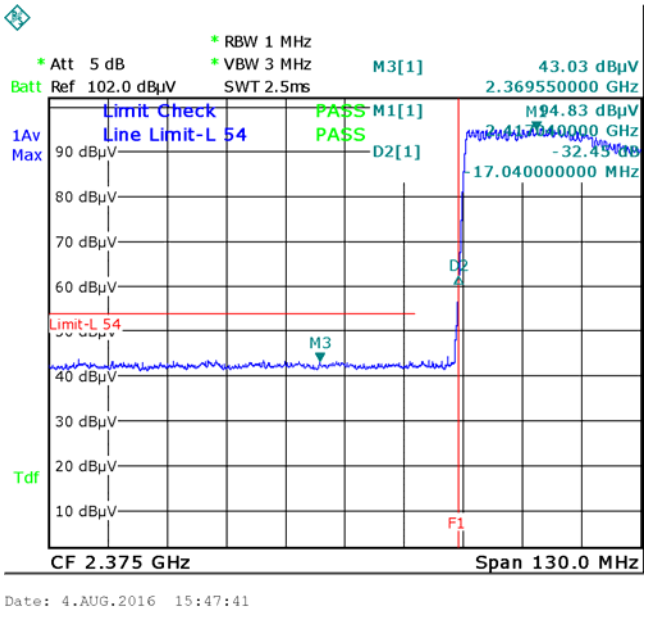
π /4 DQPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



π /4 DQPSK-Hopping Right Side-PK

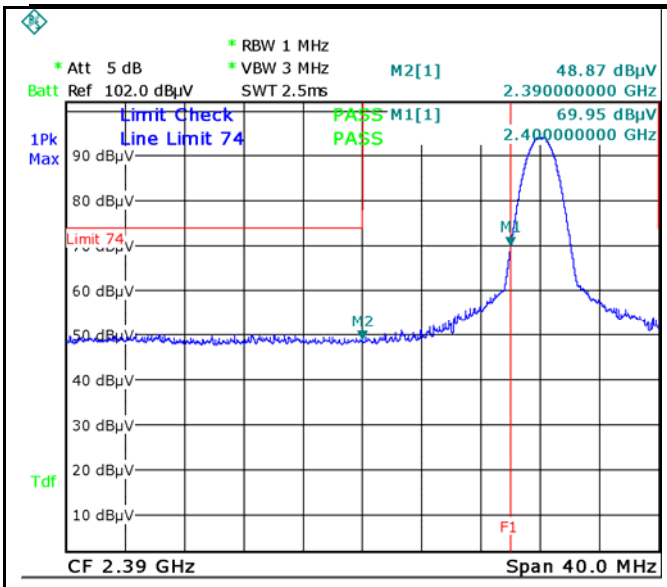
Note: F1 is frequency 2483.5MHz



π /4 DQPSK-Hopping Left-AV

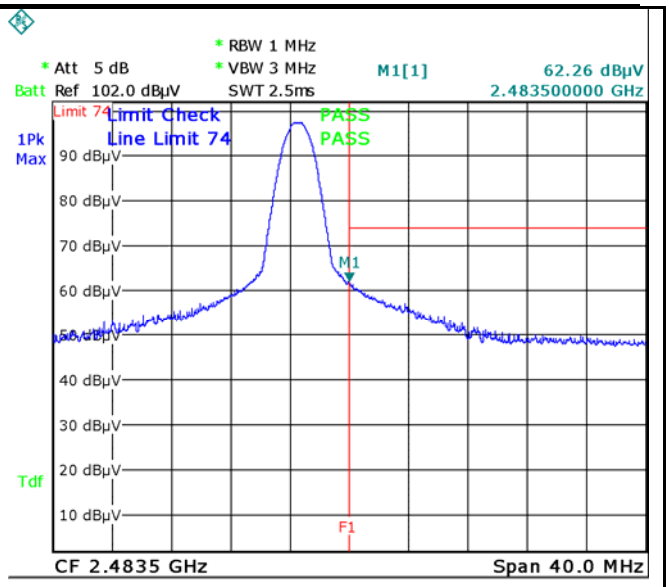
Note: (no need if PK value less than the AV limit)

π /4 DQPSK-Hopping Right-AV



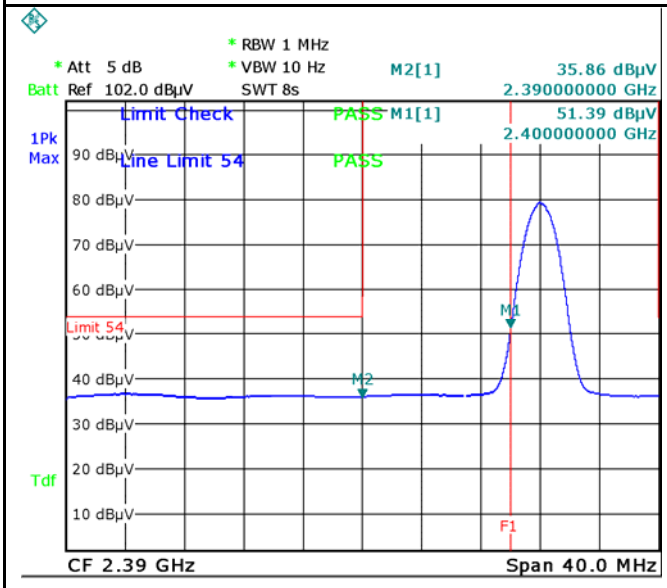
π /4 DQPSK-Left Side-PK

Note: F1 is frequency 2400MHz

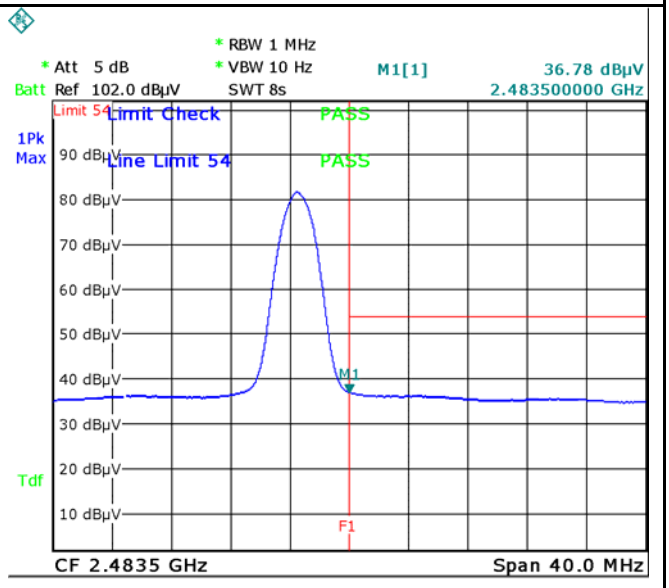


π /4 DQPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz

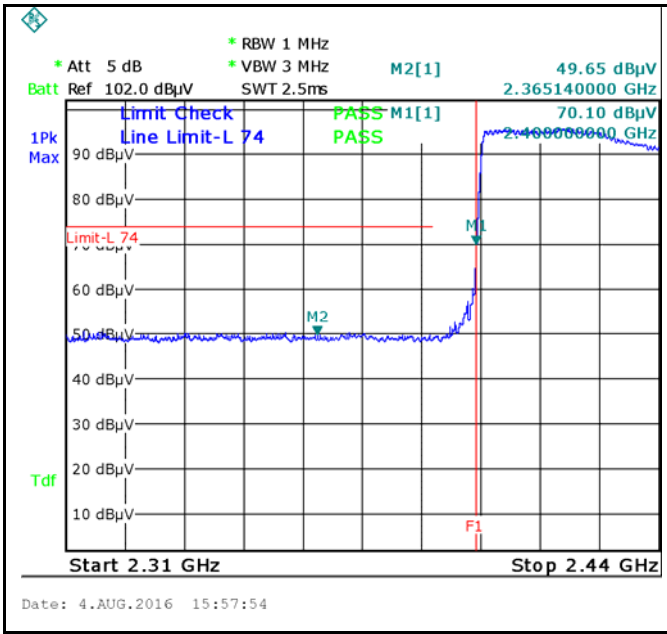


π /4 DQPSK-Left Side-AV



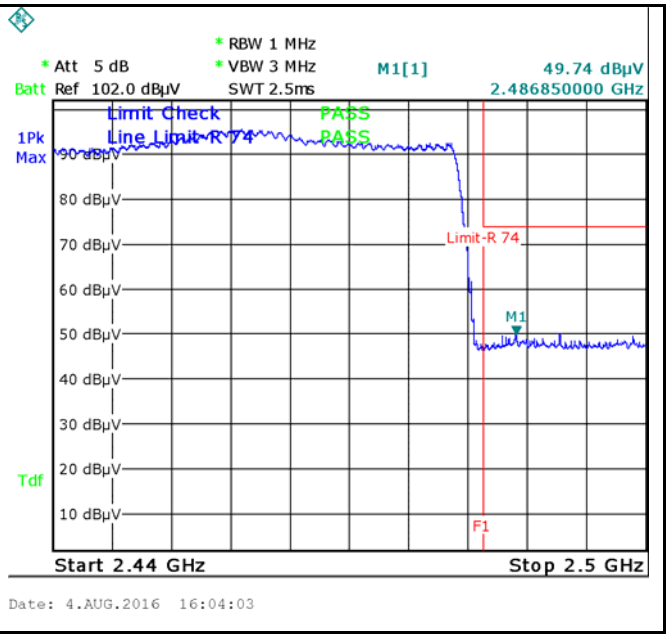
π /4 DQPSK-Right Side-AV

8-DPSK Mode:



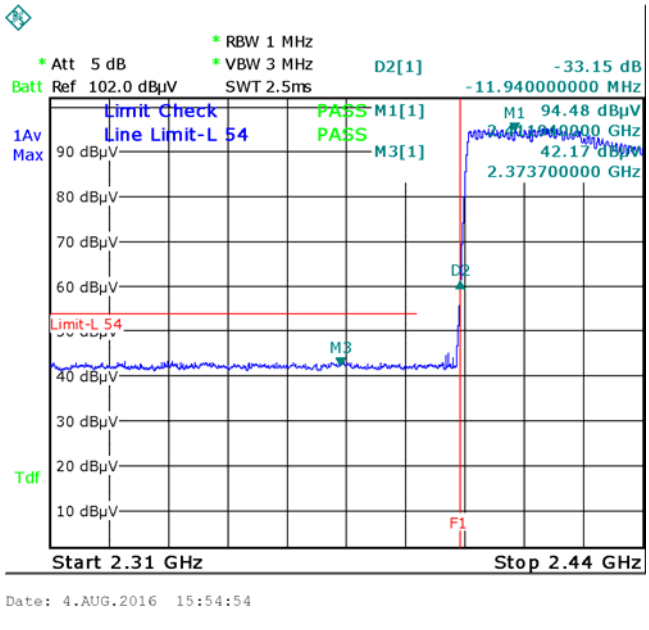
8DPSK-Hopping Left Side-PK

Note: F1 is frequency 2400MHz



8DPSK-Hopping Right Side-PK

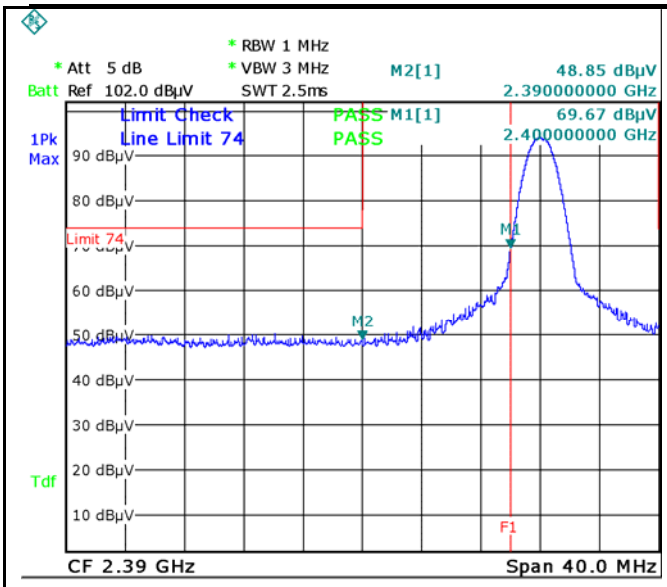
Note: F1 is frequency 2483.5MHz



8DPSK-Hopping Left-AV

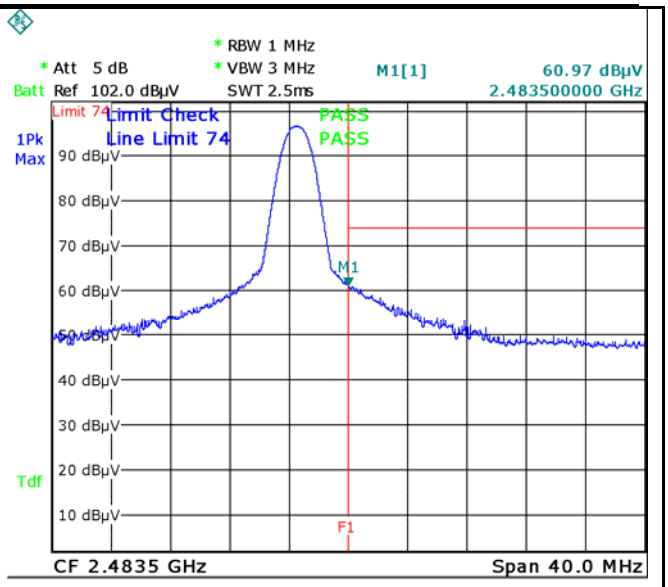
Note: (no need if PK value less than the AV limit)

8DPSK-Hopping Right-AV



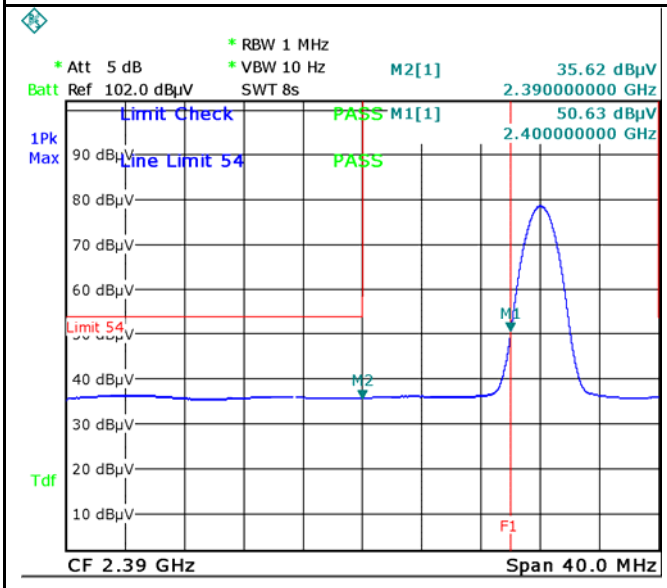
8DPSK-Left Side-PK

Note: F1 is frequency 2400MHz

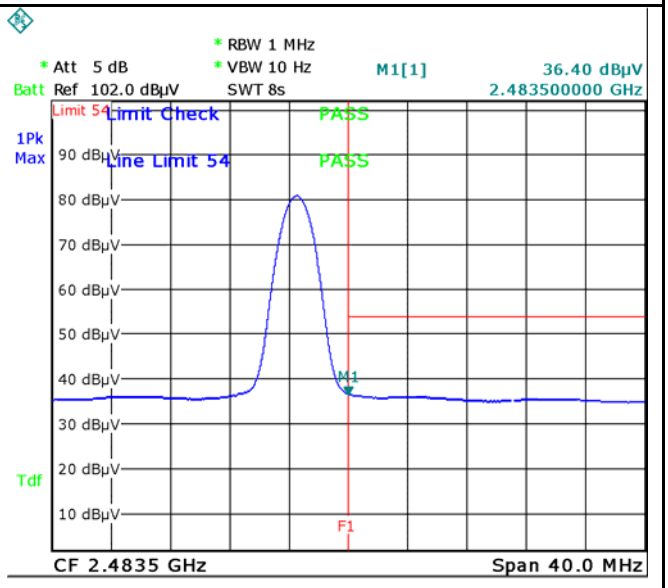


8DPSK-Right Side-PK

Note: F1 is frequency 2483.5MHz



8DPSK-Left Side-AV

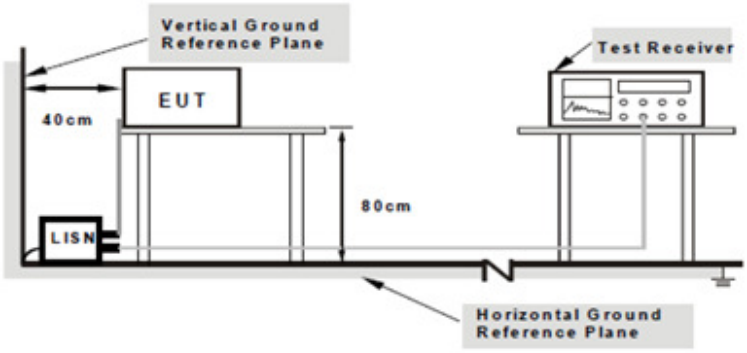


8DPSK-Right Side-AV

6.8 AC Power Line Conducted Emissions

Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1004mbar
Test date :	August 04, 2016
Tested By :	Loren Luo

Requirement(s):

<table>
<tr><th>Spec</th><th>Item</th><th>Requirement</th><th>Applicable</th></tr>
<tr><td>47CFR§15.207, RSS210 (A8.1)</td><td>a)</td><td>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.
<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>
</td><td>☑</td></tr>
<tr><td>Test Setup</td><td colspan="3"> 

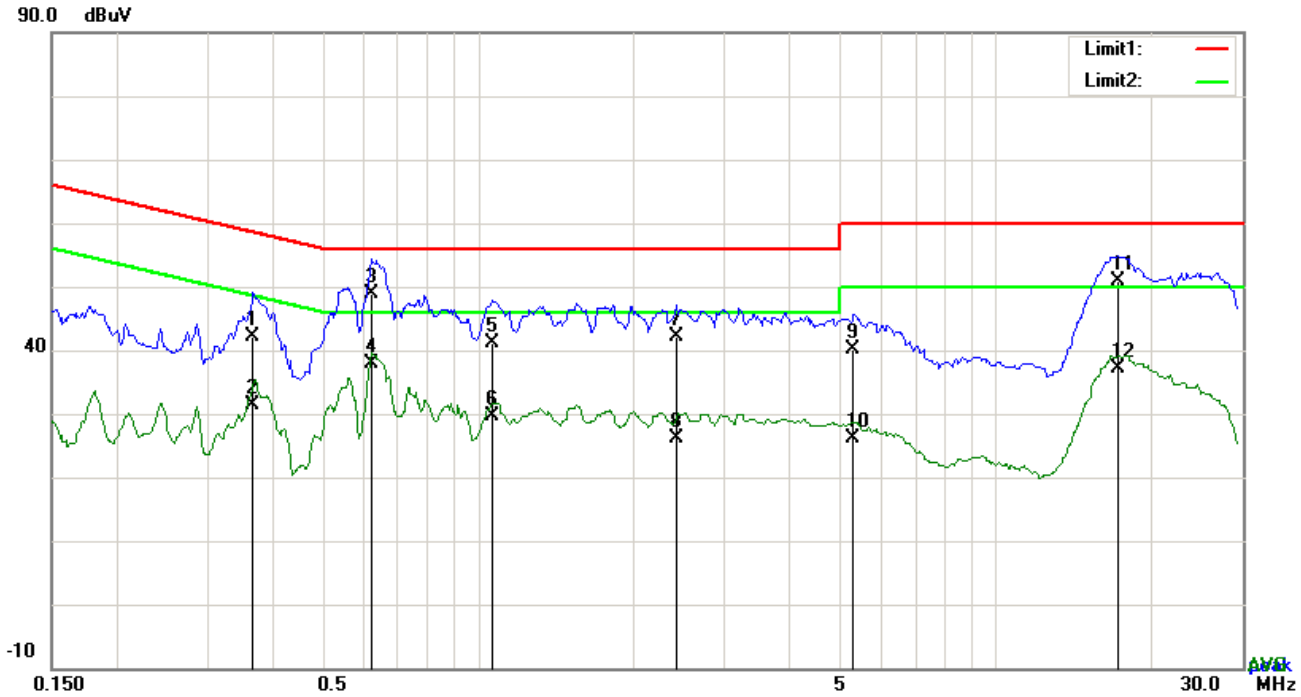
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.</td></tr>
<tr><td>Procedure</td><td colspan="3">1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.
2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss</td></tr>
</table>

	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	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

Test Mode:	Bluetooth Mode

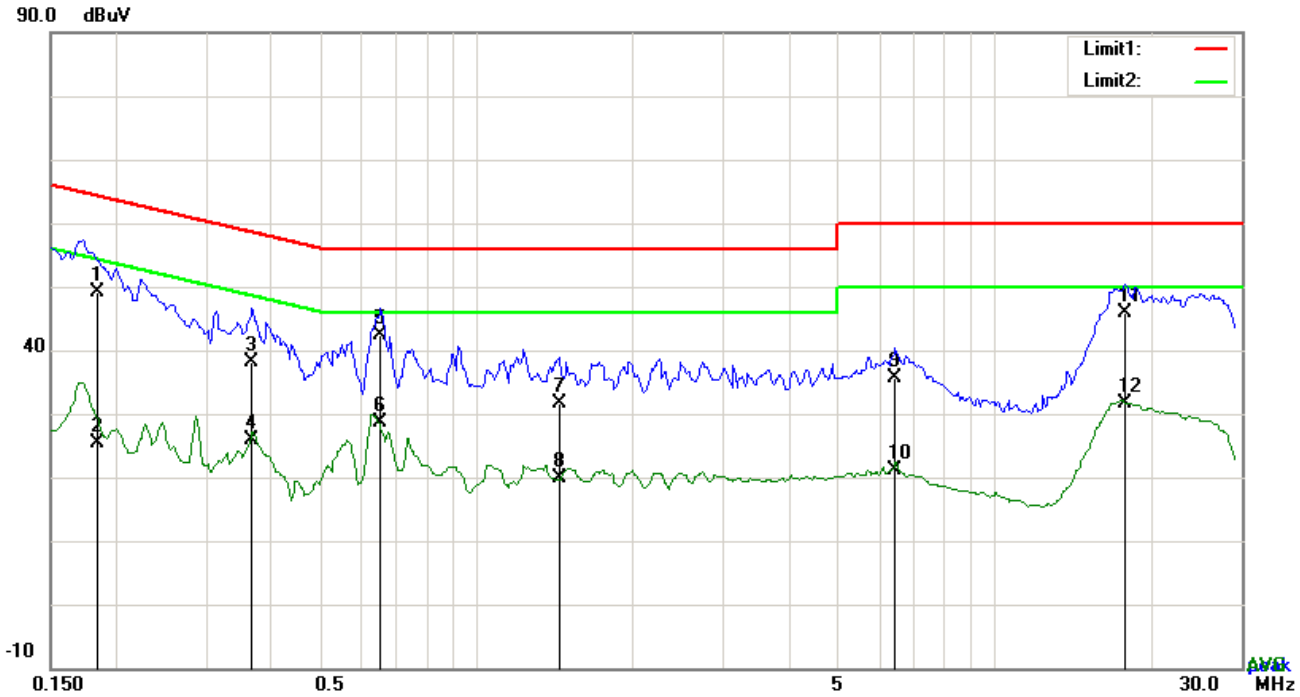


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.3684	32.21	QP	10.03	42.24	58.54	-16.30
2	L1	0.3684	21.42	AVG	10.03	31.45	48.54	-17.09
3	L1	0.6219	38.78	QP	10.03	48.81	56.00	-7.19
4	L1	0.6219	27.92	AVG	10.03	37.95	46.00	-8.05
5	L1	1.0665	31.22	QP	10.03	41.25	56.00	-14.75
6	L1	1.0665	19.48	AVG	10.03	29.51	46.00	-16.49
7	L1	2.4198	32.16	QP	10.05	42.21	56.00	-13.79
8	L1	2.4198	15.99	AVG	10.05	26.04	46.00	-19.96
9	L1	5.3283	30.12	QP	10.08	40.20	60.00	-19.80
10	L1	5.3283	15.93	AVG	10.08	26.01	50.00	-23.99
11	L1	17.2584	40.65	QP	10.26	50.91	60.00	-9.09
12	L1	17.2584	26.85	AVG	10.26	37.11	50.00	-12.89

Test Mode:	Bluetooth Mode

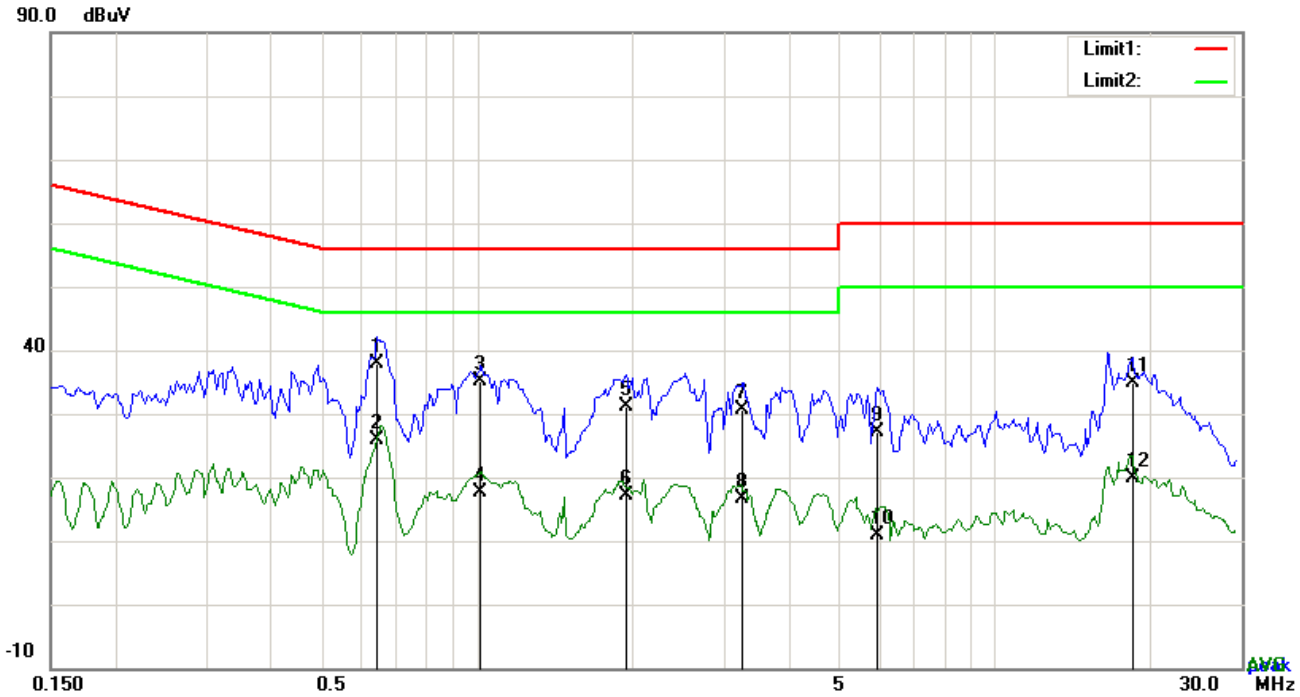


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1851	39.08	QP	10.02	49.10	64.25	-15.15
2	N	0.1851	15.38	AVG	10.02	25.40	54.25	-28.85
3	N	0.3684	28.14	QP	10.02	38.16	58.54	-20.38
4	N	0.3684	15.93	AVG	10.02	25.95	48.54	-22.59
5	N	0.6531	32.30	QP	10.02	42.32	56.00	-13.68
6	N	0.6531	18.73	AVG	10.02	28.75	46.00	-17.25
7	N	1.4409	21.54	QP	10.03	31.57	56.00	-24.43
8	N	1.4409	9.84	AVG	10.03	19.87	46.00	-26.13
9	N	6.4515	25.54	QP	10.09	35.63	60.00	-24.37
10	N	6.4515	11.11	AVG	10.09	21.20	50.00	-28.80
11	N	17.9097	35.63	QP	10.23	45.86	60.00	-14.14
12	N	17.9097	21.50	AVG	10.23	31.73	50.00	-18.27

Test Mode:	Bluetooth Mode

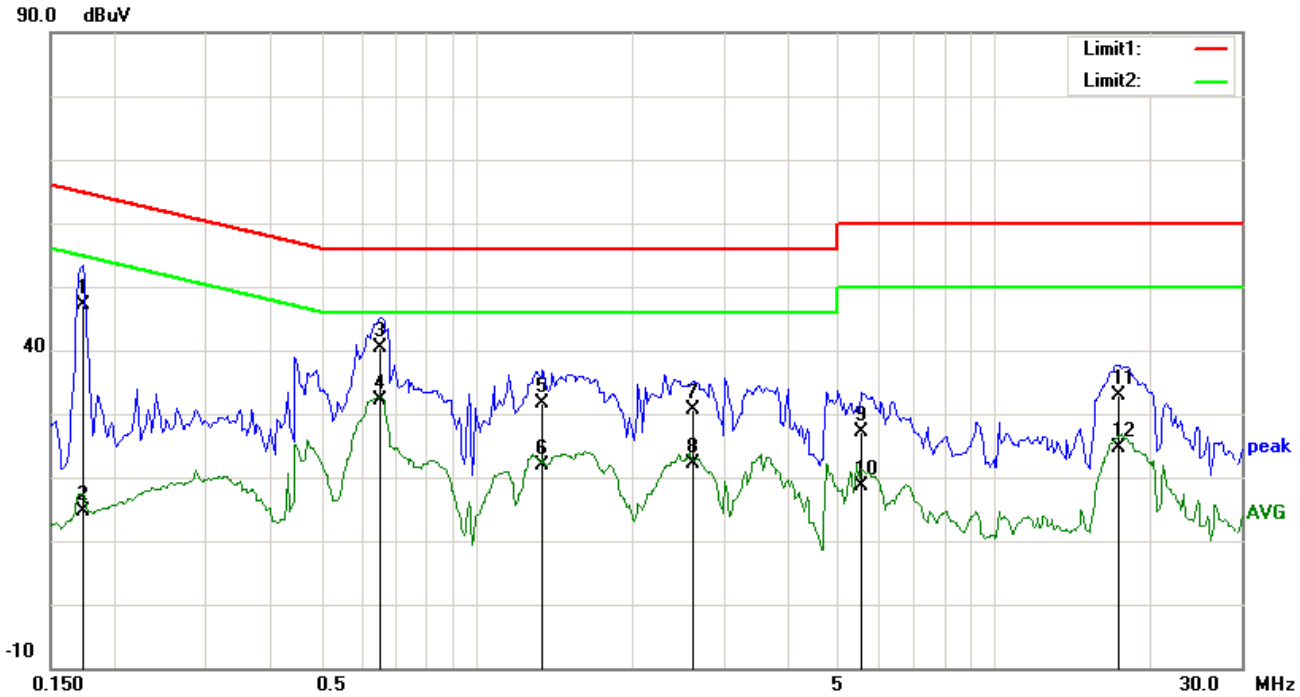


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	L1	0.6414	27.90	QP	10.03	37.93	56.00	-18.07
2	L1	0.6414	15.96	AVG	10.03	25.99	46.00	-20.01
3	L1	1.0197	25.09	QP	10.03	35.12	56.00	-20.88
4	L1	1.0197	7.65	AVG	10.03	17.68	46.00	-28.32
5	L1	1.9401	21.20	QP	10.04	31.24	56.00	-24.76
6	L1	1.9401	7.16	AVG	10.04	17.20	46.00	-28.80
7	L1	3.2730	20.50	QP	10.06	30.56	56.00	-25.44
8	L1	3.2730	6.63	AVG	10.06	16.69	46.00	-29.31
9	L1	5.9406	16.93	QP	10.09	27.02	60.00	-32.98
10	L1	5.9406	0.75	AVG	10.09	10.84	50.00	-39.16
11	L1	18.4284	24.54	QP	10.28	34.82	60.00	-25.18
12	L1	18.4284	9.54	AVG	10.28	19.82	50.00	-30.18

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	0.1734	37.14	QP	10.03	47.17	64.80	-17.63
2	N	0.1734	4.62	AVG	10.03	14.65	54.80	-40.15
3	N	0.6492	30.45	QP	10.03	40.48	56.00	-15.52
4	N	0.6492	22.07	AVG	10.03	32.10	46.00	-13.90
5	N	1.3434	21.49	QP	10.03	31.52	56.00	-24.48
6	N	1.3434	11.89	AVG	10.03	21.92	46.00	-24.08
7	N	2.6109	20.60	QP	10.05	30.65	56.00	-25.35
8	N	2.6109	11.99	AVG	10.05	22.04	46.00	-23.96
9	N	5.5311	17.16	QP	10.09	27.25	60.00	-32.75
10	N	5.5311	8.51	AVG	10.09	18.60	50.00	-31.40
11	N	17.3988	22.64	QP	10.26	32.90	60.00	-27.10
12	N	17.3988	14.40	AVG	10.26	24.66	50.00	-25.34

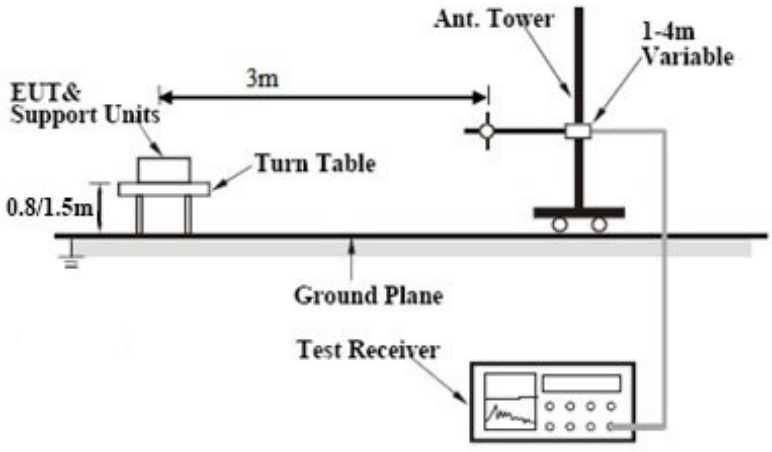
6.9 Radiated Spurious Emissions & Restricted Band

Temperature	24℃
Relative Humidity	56%
Atmospheric Pressure	1004mbar
Test date :	August 04, 2016
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	☑

Frequency range (MHz)	Field Strength (μV/m)
30 – 88	100
88 – 216	150
216 960	200
Above 960	500

Test Setup	
Procedure	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:

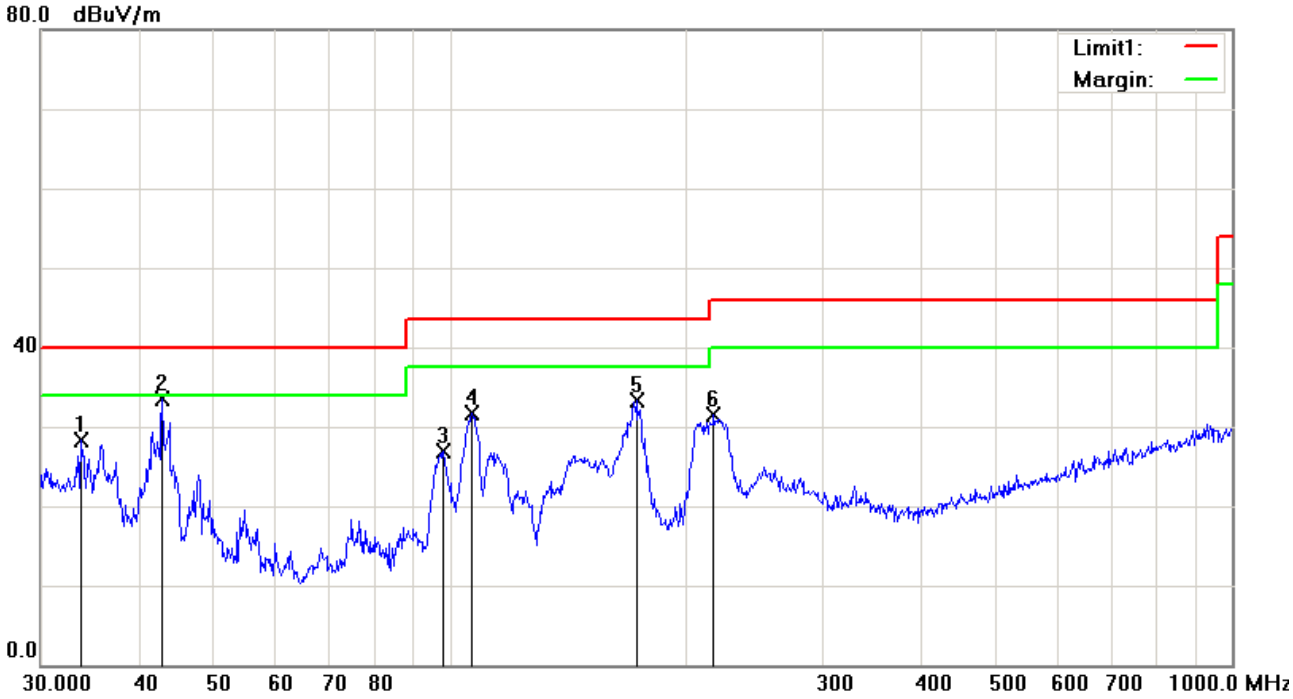
	a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. 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. 5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	
Result	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

Test Mode:	Bluetooth Mode

Below 1GHz

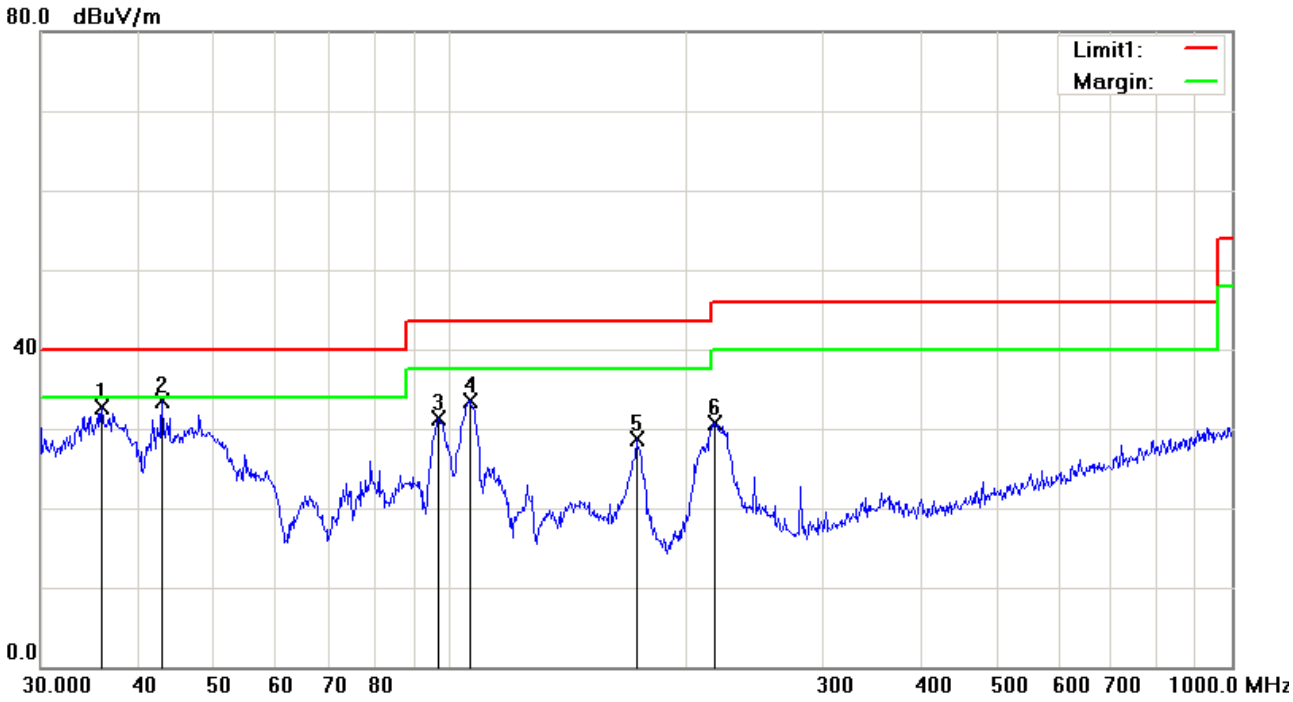


Test Data

Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	H	33.7986	31.36	peak	-3.05	28.31	40.00	-11.69	100	162
2	H	42.8998	43.03	peak	-9.53	33.50	40.00	-6.50	100	106
3	H	98.1419	38.16	peak	-11.30	26.86	43.50	-16.64	100	203
4	H	106.7587	41.23	peak	-9.60	31.63	43.50	-11.87	100	188
5	H	173.2051	42.59	peak	-9.36	33.23	43.50	-10.27	100	113
6	H	217.5443	40.37	peak	-8.90	31.47	46.00	-14.53	100	109

Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	35.8747	37.19	peak	-4.58	32.61	40.00	-7.39	100	314
2	V	42.8998	42.97	peak	-9.53	33.44	40.00	-6.56	100	212
3	V	96.7749	42.89	peak	-11.65	31.24	43.50	-12.26	100	224
4	V	106.3850	43.26	peak	-9.66	33.60	43.50	-9.90	100	254
5	V	173.2051	38.02	peak	-9.36	28.66	43.50	-14.84	100	51
6	V	218.3085	39.65	peak	-8.91	30.74	46.00	-15.26	100	359

Above 1GHz

Test Mode:	Transmitting Mode

Low Channel (2402 MHz) (π /4 DQPSK Worst Case)

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	38.66	AV	V	33.67	6.86	32.66	46.53	54	-7.47
4804	38.51	AV	H	33.67	6.86	32.66	46.38	54	-7.62
4804	47.95	PK	V	33.67	6.86	32.66	55.82	74	-18.18
4804	47.38	PK	H	33.67	6.86	32.66	55.25	74	-18.75
17793	24.53	AV	V	45.03	11.21	32.38	48.39	54	-5.61
17793	24.29	AV	H	45.03	11.21	32.38	48.15	54	-5.85
17793	40.91	PK	V	45.03	11.21	32.38	64.77	74	-9.23
17793	40.65	PK	H	45.03	11.21	32.38	64.51	74	-9.49

Middle Channel (2441 MHz) (π /4 DQPSK Worst Case)

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)
38.75	AV	V	33.71	6.95	32.74	46.67	54	-7.33	38.75
38.63	AV	H	33.71	6.95	32.74	46.55	54	-7.45	38.63
48.01	PK	V	33.71	6.95	32.74	55.93	74	-18.07	48.01
47.67	PK	H	33.71	6.95	32.74	55.59	74	-18.41	47.67
24.16	AV	V	45.15	11.18	32.41	48.08	54	-5.92	24.16
24.02	AV	H	45.15	11.18	32.41	47.94	54	-6.06	24.02
41.25	PK	V	45.15	11.18	32.41	65.17	74	-8.83	41.25
40.79	PK	H	45.15	11.18	32.41	64.71	74	-9.29	40.79

High Channel (2480 MHz) (π /4 DQPSK Worst Case)

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)
38.59	AV	V	33.9	6.76	32.74	46.51	54	-7.49	38.59
38.46	AV	H	33.9	6.76	32.74	46.38	54	-7.62	38.46
48.12	PK	V	33.9	6.76	32.74	56.04	74	-17.96	48.12
47.95	PK	H	33.9	6.76	32.74	55.87	74	-18.13	47.95
24.72	AV	V	45.22	11.35	32.38	48.91	54	-5.09	24.72
24.48	AV	H	45.22	11.35	32.38	48.67	54	-5.33	24.48
41.35	PK	V	45.22	11.35	32.38	65.54	74	-8.46	41.35
41.09	PK	H	45.22	11.35	32.38	65.28	74	-8.72	41.09

Note:

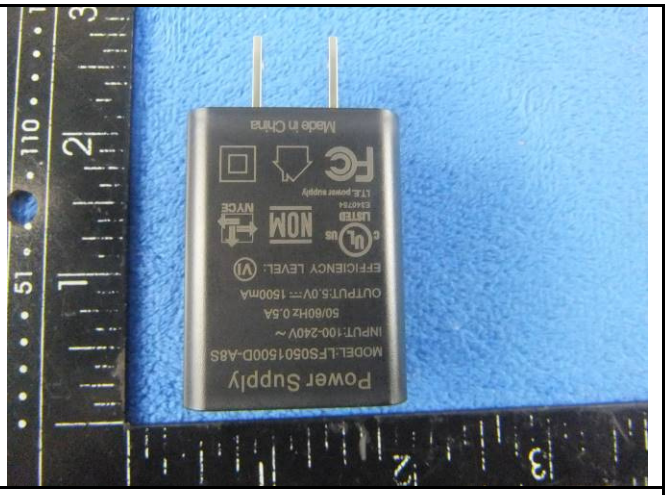
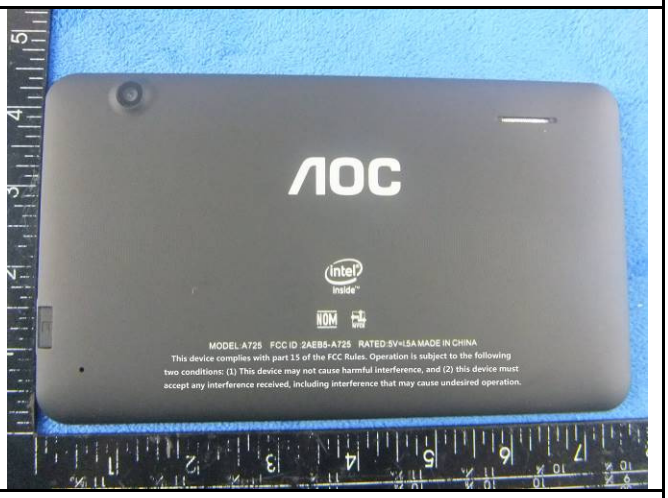
*1, The testing has been conformed to 10*2480MHz=24,800MHz*
2, All other emissions more than 30 dB below the limit
3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

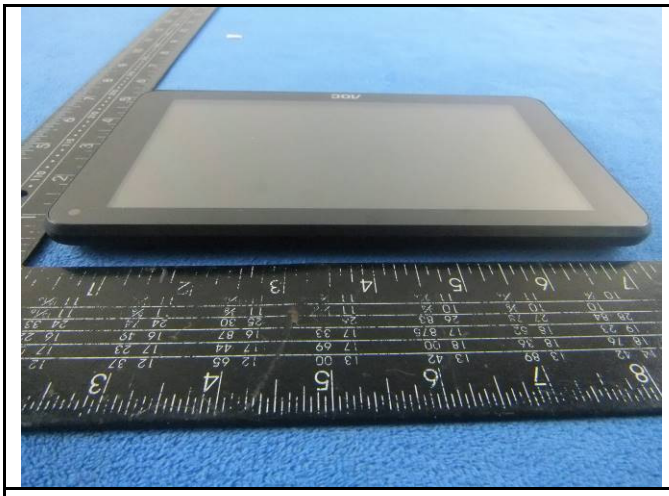
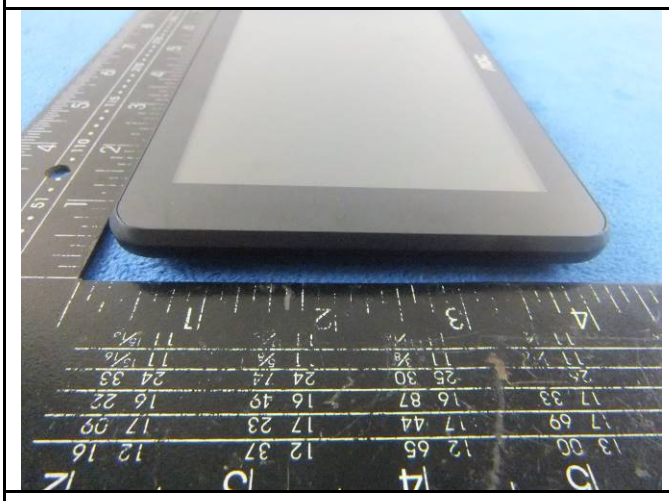
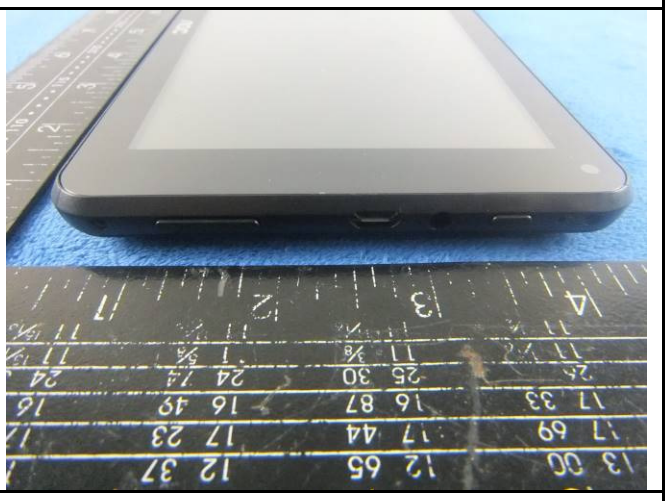
Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	☑
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	☑
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	☑
LISN	ISN T800	34373	09/25/2015	09/24/2016	☑
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	☑
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	☑
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	☑
Power Splitter	1#	1#	09/01/2015	08/31/2016	☑
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	☑
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	☑
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	☑
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	☑
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	☑
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	☑
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	☑
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	☑

Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

<table>
<tr><td>  </td><td> 
</td></tr>
<tr><td>Whole Package View</td><td>Adapter - Front View</td></tr>
<tr><td>  </td><td> 
</td></tr>
<tr><td>EUT - Front View</td><td>EUT - Rear View</td></tr>
</table>

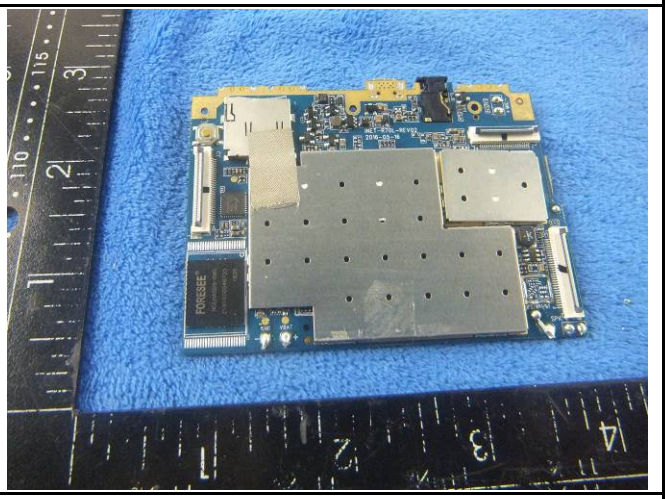
	
EUT - Top View	EUT - Bottom View
	
EUT - Left View	EUT - Right View

Annex B.ii. Photograph: EUT Internal Photo

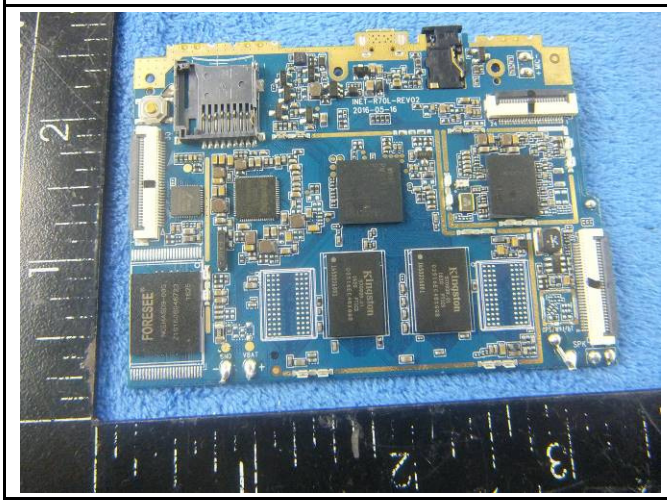
Cover Off - Top View 1

Battery - Front View

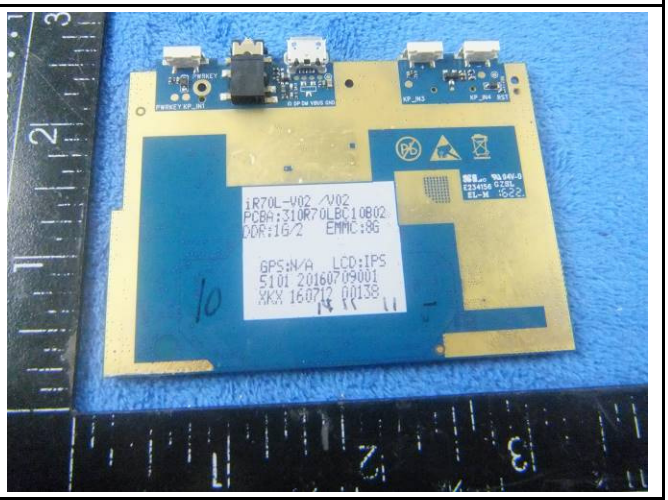
Battery - Rear View



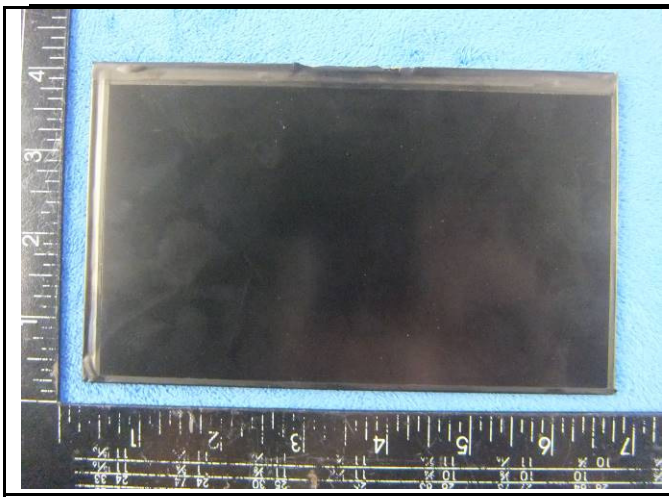
Mainboard with Shielding - Front View



Mainboard without Shielding - Front View

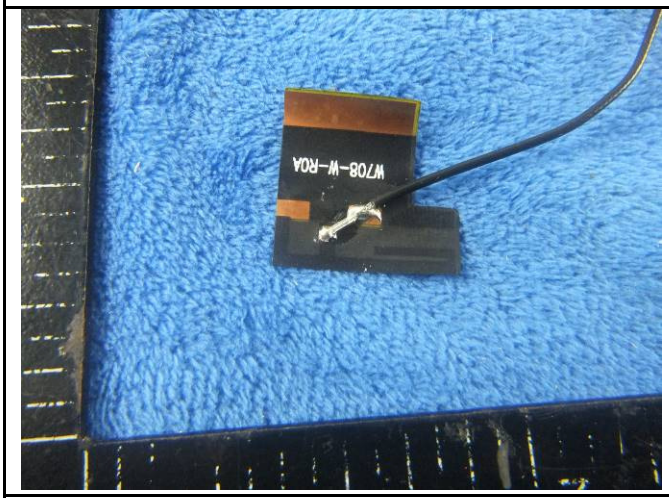


Mainboard - Rear View



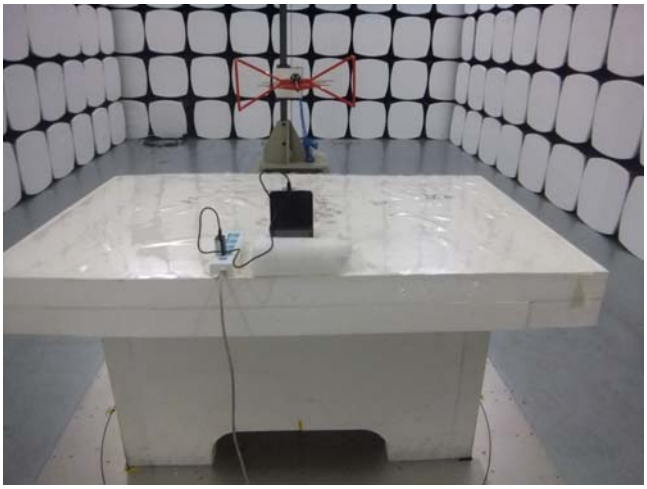
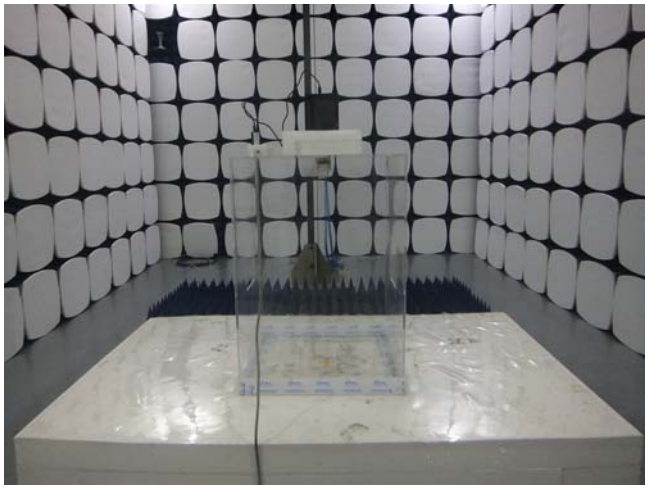
LCD – Front View

LCD – Rear View



BT Antenna View

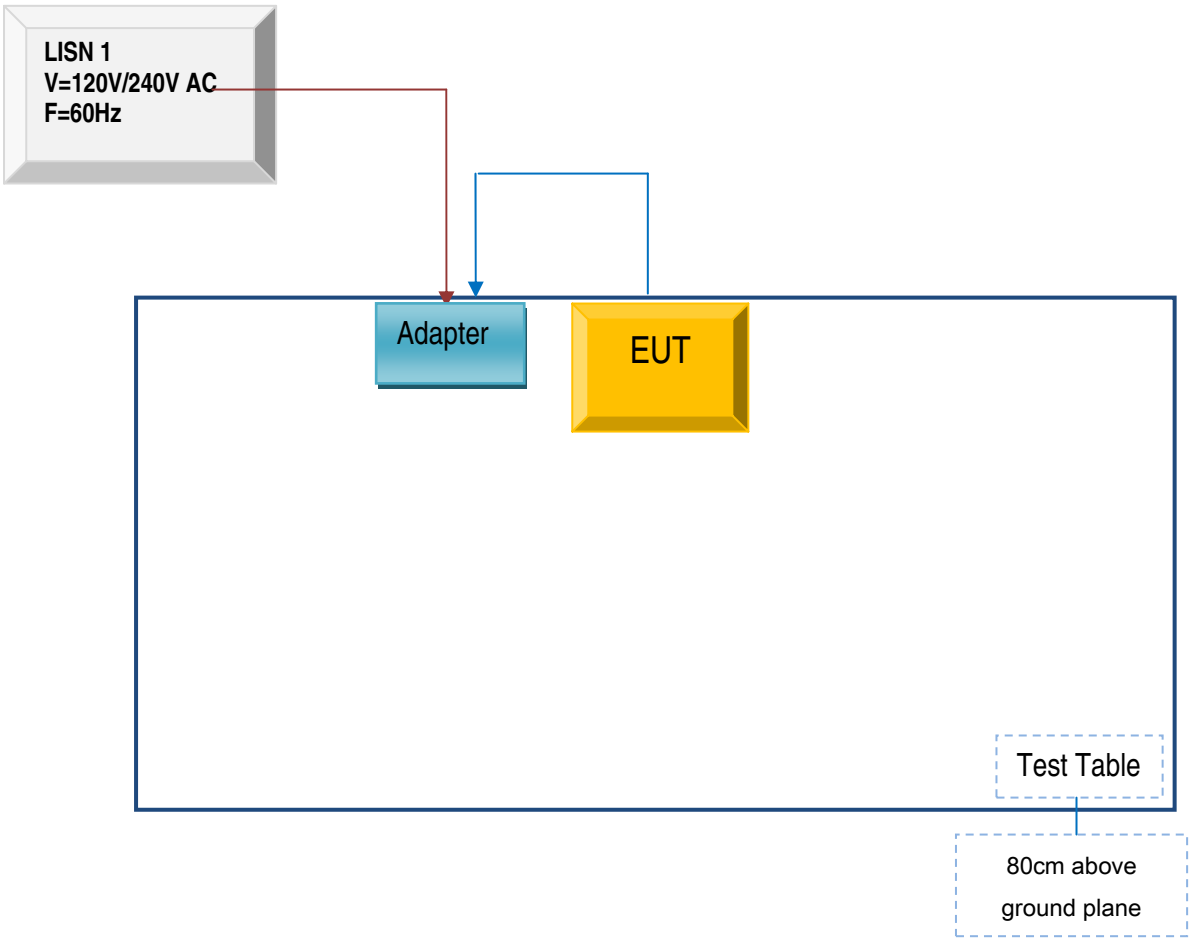
Annex B.iii. Photograph: Test Setup Photo

	
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

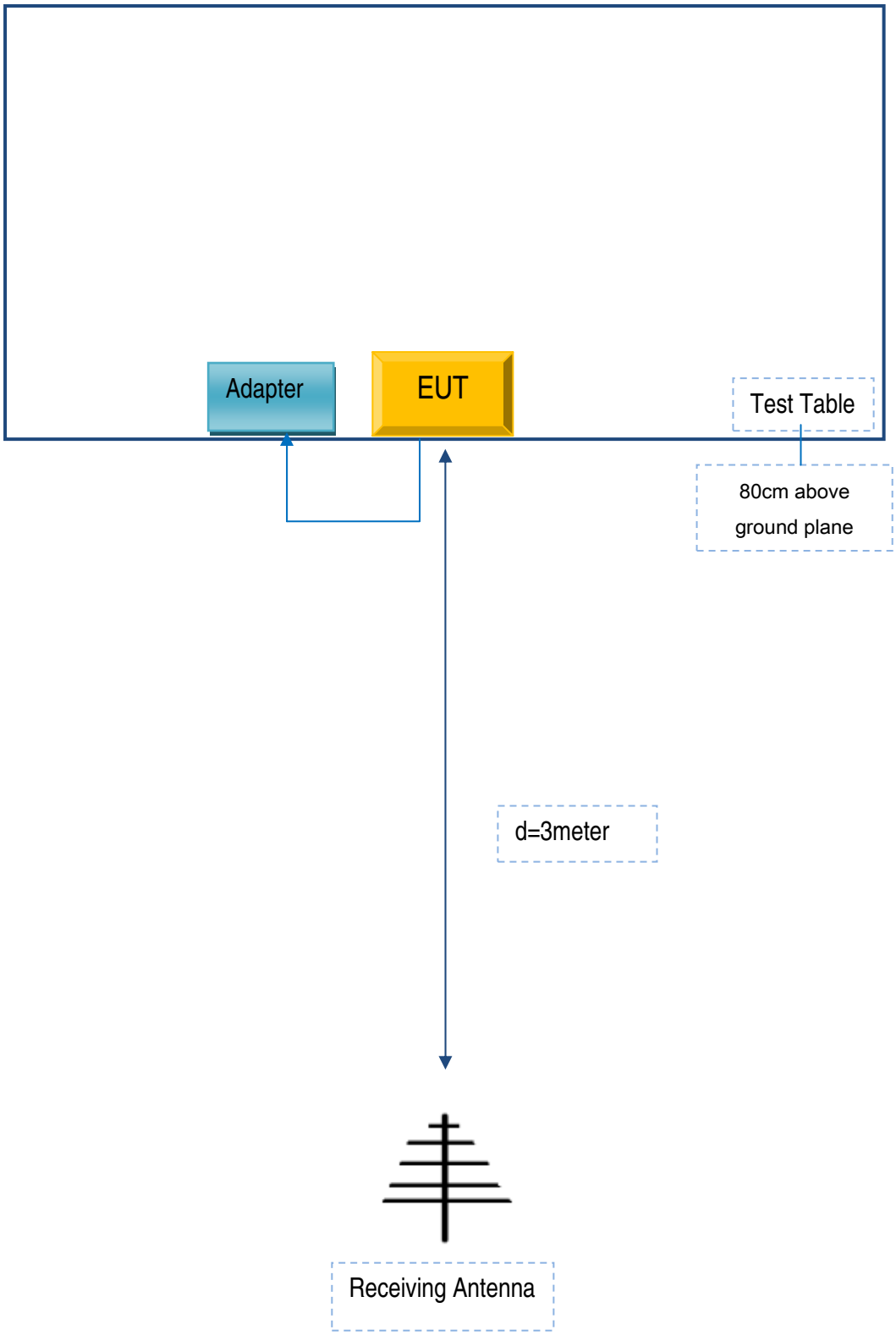
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

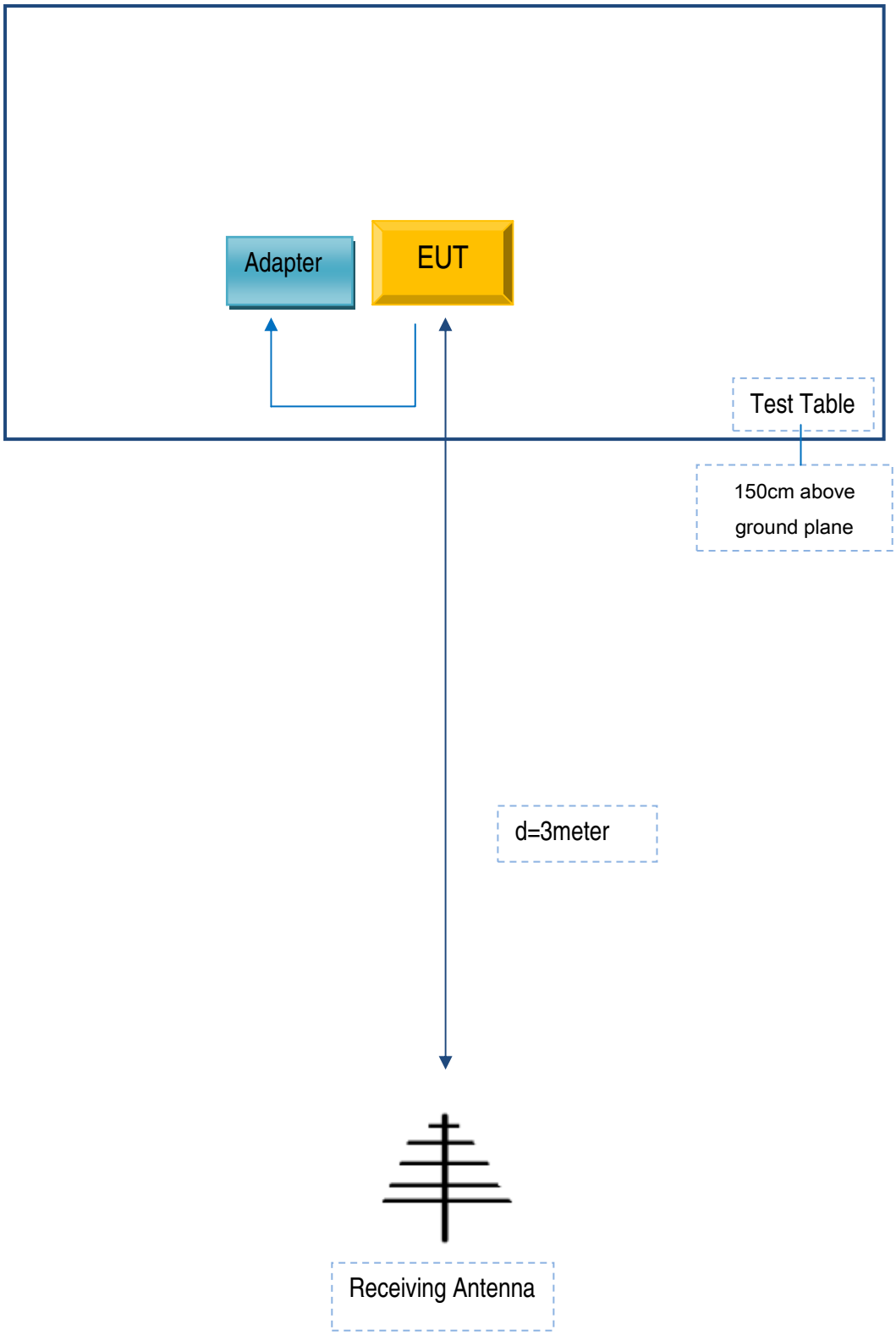
Block Configuration Diagram for AC Line Conducted Emissions



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



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



Annex C. il. 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
AOC	Adapter	LFS0501500D-A8S	A8S

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	A8S

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

Please see attachment

Annex E. DECLARATION OF SIMILARITY

AOC

To: SIEMIC,775MontagueExpressway,Milpitas,CA95035,USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 9model numbers on the FCC certificates and reports, as following:

Model No.: A725, A721,A722,A723,A724,A726,A727,A728,A729
We declare that, all the model PCB, Antenna and Appearance shape, accessories are the same. The difference of these is listed as below:

Main Model No	Serial Model No	Differenc
A725	A721,A722,A723,A724,A726,A727,A728,A729	Different model name

Thank you!

Signature:

Carol Sung

Printed name/title: Carol Sung
Address: 14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan