FCC TEST REPORT

FOR

Global Phoenix Computer T&S,Inc.

Mobile Phone

Test Model: FLASH II

Prepared for	:	Global Phoenix Computer T&S,Inc.
Address	:	21 Dutch Mill Road Ithaca, NY 14850
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
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Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	April 01, 2016
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	April 01, 2016 - April 15, 2016
Date of Report	:	April 15, 2016

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FCC TEST REPORT **FCC CFR 47 PART 15 C(15.247): 2014**	
Report Reference No. ..... :	**LCS1604010036E**
Date of Issue ..... :	April 15, 2016
Testing Laboratory Name ..... :	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address ..... :	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure ..... :	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name..... :	**Global Phoenix Computer T&S,Inc.**
Address ..... :	21 Dutch Mill Road Ithaca, NY 14850
Test Specification	
Standard ..... :	FCC CFR 47 PART 15 C(15.247): 2014 / ANSI C63.10: 2013
Test Report Form No. ..... :	LCSEMC-1.0
TRF Originator..... :	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF ..... :	Dated 2011-03

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Test Item Description. ..... :	**Mobile Phone**
Trade Mark..... :	KOCASO
Test Model ..... :	FLASH II
Ratings ..... :	DC 3.7V by Lithium ion polymer battery(1500mAh) Recharged by DC 5V/1A Travel Charger
Result ..... :	**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Dick Su/ File administrators	Glin Lu/ Technique principal	Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS1604010036E	April 15, 2016 Date of issue

Test Model.....	: FLASH II
EUT.....	: Mobile Phone
Applicant.....	**: Global Phoenix Computer T&S,Inc.**
Address.....	: 21 Dutch Mill Road Ithaca, NY 14850
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: Global Phoenix Computer T&S,Inc.**
Address.....	: 21 Dutch Mill Road Ithaca, NY 14850
Telephone.....	: /
Fax.....	: /
Factory.....	: **Global Phoenix Computer T&S,Inc.**
Address.....	: 21 Dutch Mill Road Ithaca, NY 14850
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
00	April 15, 2016	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	:	Mobile Phone
Test Model	:	FLASH II
Hardware Version	:	V1.01
Software Version	:	Flash_Ⅱ _V4.0_20151229
Power Supply	:	DC 3.7V by li-ion battery(1500mAh) Recharged Voltage: DC 5V/1A
EUT Support Radios Application	:	GSM/GPRS/EGPRS(Only Downlink)/ WCDMA/HSUPA/HSDPA/WIFI/Bluetooth/GPS(RX)
Bluetooth Technology	:	
Frequency Range	:	2402.00-2480.00MHz
Channel Number	:	79 channels
Channel Spacing	:	1MHz
Modulation Type	:	GFSK, Pi/4-DQPSK, 8-DPSK
Bluetooth Version	:	V2.1+EDR
Antenna Description	:	PIFA Antenna, 1.8dBi(Max.)

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1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Lenovo	PC	B470	--	DOC
Lenovo	AC/DC ADAPTER	ADP-90DDB	--	DOC

1.3 External I/O

I/O Port Description	Quantity	Cable
USB Port	1	N/A
SIM Card Slot	2	N/A
TF Card Slot	1	N/A

1.4 Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	3.10dB	(1)
		30MHz~200MHz	2.96dB	(1)
		200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
		26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description Of Test Modes

Bluetooth operates in the unlicensed ISM Band at 2.4GHz. With the introduction of the enhanced data rate (EDR) feature, the data rates can be up to 3 Mb/s. An increase in the peak data rate beyond the basic rate of 1 Mb/s is achieved by modulating the RF carrier using GFSK techniques, resulting in an increase of two to three times the number of bits per symbol. The 2 Mb/s EDR packets use aπ/4-DQPSK modulation and the 3 Mb/s EDR packets use 8DPSK modulation. The following operating modes were applied for the related test items. For radiated measurement, the test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position. All test modes were tested, only the result of the worst case was recorded in the report.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)
GFSK	2402	1
	2441	1
	2480	1
π /4 DQPSK	2402	2
	2441	2
	2480	2
8-DPSK	2402	3
	2441	3
	2480	3
For Conducted Emission		
Test Mode	TX Mode	
For Radiated Emission		
Test Mode	TX Mode	

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps-Hopping Mode).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps-Low Channel).

***Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013, FCC CFR PART 15C 15.207, 15.209, 15.247 and DA 00-705.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.247 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10: 2013

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3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a continuous transmit condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

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4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C		
FCC Rules	**Description of Test**	**Result**
§15.247(b)(1)	Maximum Conducted Output Power	Compliant
§15.247(a)(1)	Frequency Separation And 20 dB Bandwidth	Compliant
§15.247(a)(1)(iii)	Number Of Hopping Frequency	Compliant
§15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	Compliant
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant
§15.205	Emissions at Restricted Band	Compliant
§15.207(a)	Line Conducted Emissions	Compliant
§15.203	Antenna Requirements	Compliant

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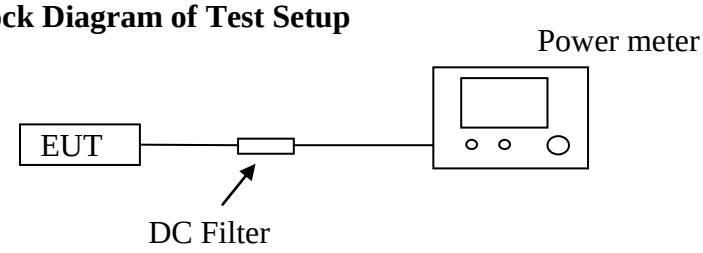
5. ANTENNA PORT MEASUREMENT

5.1 Conducted Peak Output Power

5.1.1 Block Diagram of Test Setup



5.1.2 Limit

According to §15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.1.3 Test Procedure

The transmitter output is connected to the Power Meter.

5.1.4 Test Results

Channel	Frequency (MHz)	Output Power (dBm,Peak)	Output Power (mW)	Limit (mW)	Result
GFSK	2402	4.96	3.13	1000	Pass
	2441	5.17	3.29	1000	Pass
	2480	5.54	3.58	1000	Pass
π /4 DQPSK	2402	4.23	2.65	125	Pass
	2441	4.40	2.75	125	Pass
	2480	4.66	2.92	125	Pass
8-DPSK	2402	4.22	2.64	125	Pass
	2441	4.38	2.74	125	Pass
	2480	4.68	2.94	125	Pass

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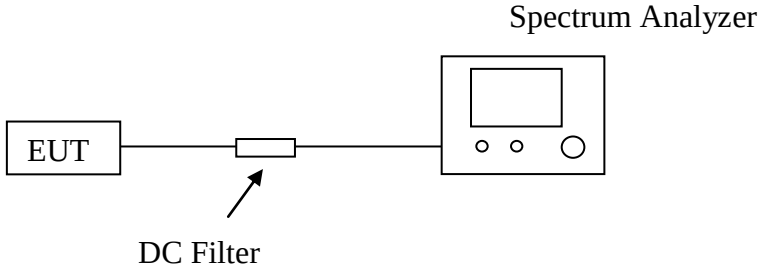
5.2 Frequency Separation And 20 dB Bandwidth

5.2.1 Limit

According to §15.247(a)(1), 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. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

5.2.2 Block Diagram of Test Setup



5.2.3 Test Procedure

A. Place the EUT on the table and set it in transmitting mode.
B. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
C. Set to the maximum power setting and enable the EUT transmit continuously.
D. For carrier frequency separation measurement, use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels;
   RBW / RBW=100KHz / 100KHz; Sweep = auto; Detector function = peak;
   Trace = max hold.
E. For 20dB bandwidth measurement, use the following spectrum analyzer settings:
   Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel;
   RBW/VBW=30KHz / 100KHz; Sweep = auto; Detector function = peak;
   Trace = max hold.

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5.2.4 Test Results

The Measurement Result With 1Mbps For GFSK Modulation			
Channel	**Channel Separation (MHz)**	**Limit (MHz)**	**Result**
Low	1.000	0.861	Pass
Middle		0.858	Pass
High		0.967	Pass

The Measurement Result With 2Mbps For π /4 DQPSK Modulation			
Channel	**Channel Separation (MHz)**	**Limit (MHz)**	**Result**
Low	1.000	0.723	Pass
Middle		0.719	Pass
High		0.720	Pass

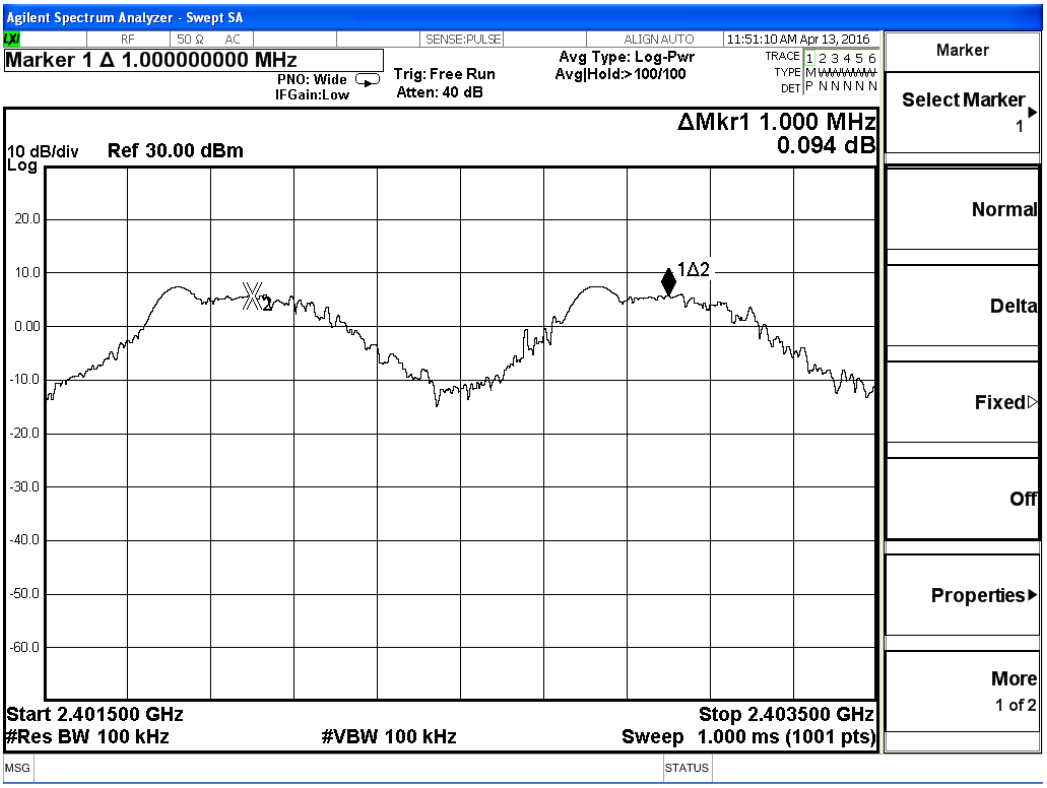
The Measurement Result With 3Mbps For 8-DPSK Modulation			
Channel	**Channel Separation (MHz)**	**Limit (MHz)**	**Result**
Low	1.000	0.739	Pass
Middle		0.744	Pass
High		0.744	Pass

The Measurement Result for 20dB Bandwidth(MHz)			
Channel	**GFSK**	**π /4 DQPSK**	**8-DPSK**
Low	0.867	1.121	1.165
Middle	0.812	1.121	1.181
High	0.937	1.123	1.168

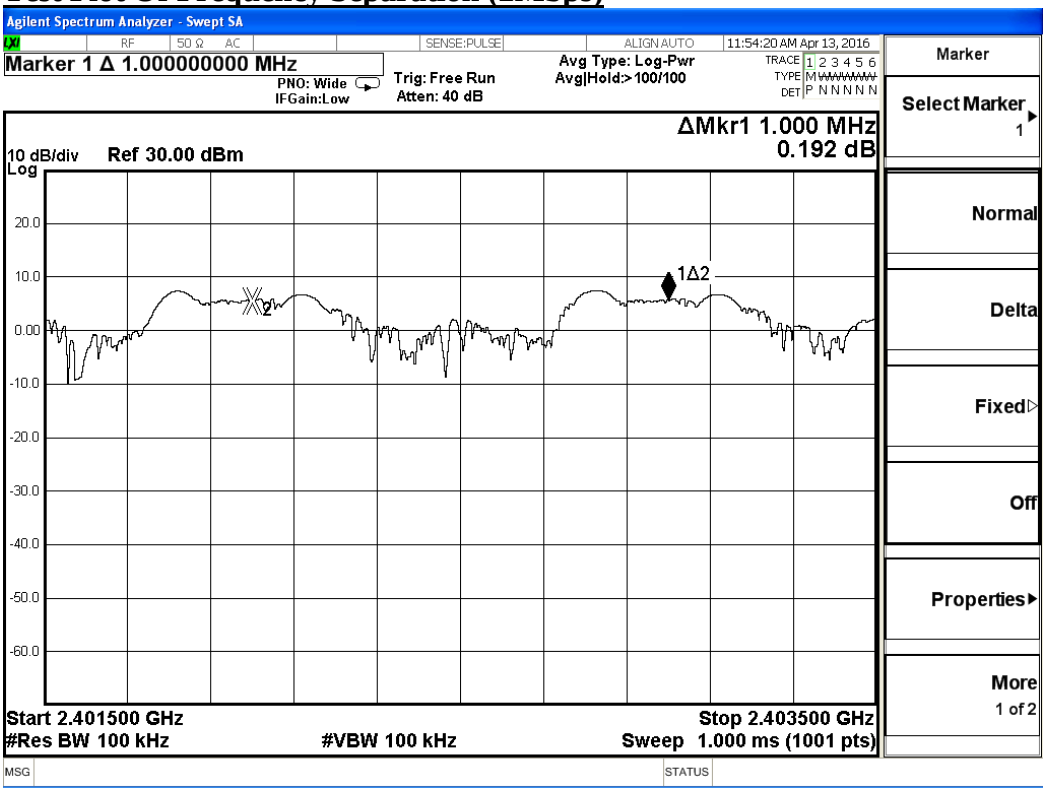
The test data refer to the following page.

For Frequency Separation Measurement, the Low, Mid and High channels were performed and only recorded the worst test plots for Low in this report.

The Worst Test Plot Of Frequency Separation (1Mbps)



Test Plot Of Frequency Separation (2Mbps)



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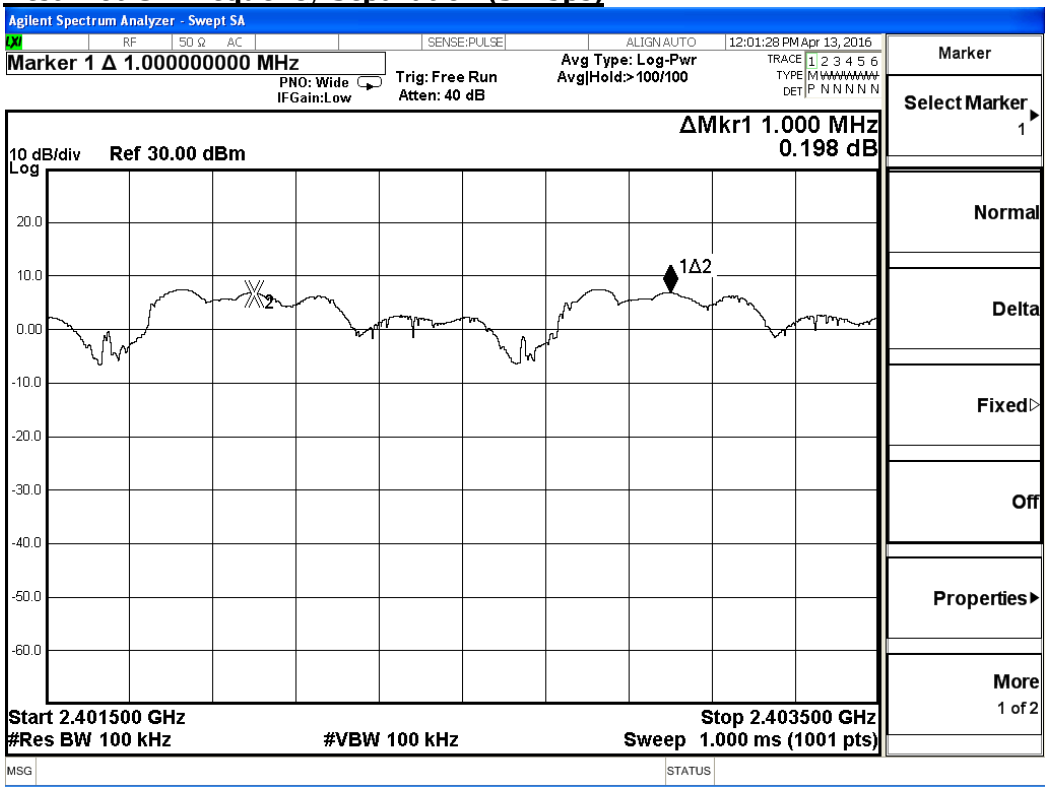
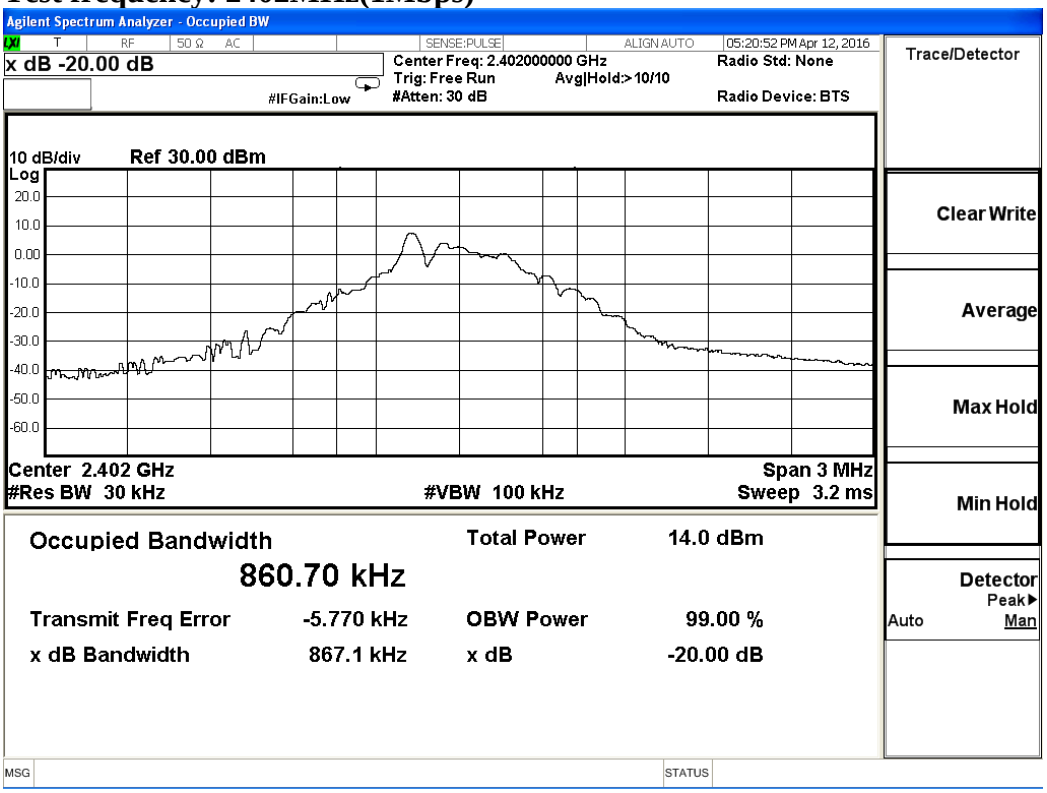
Test Plot Of Frequency Separation (3Mbps)

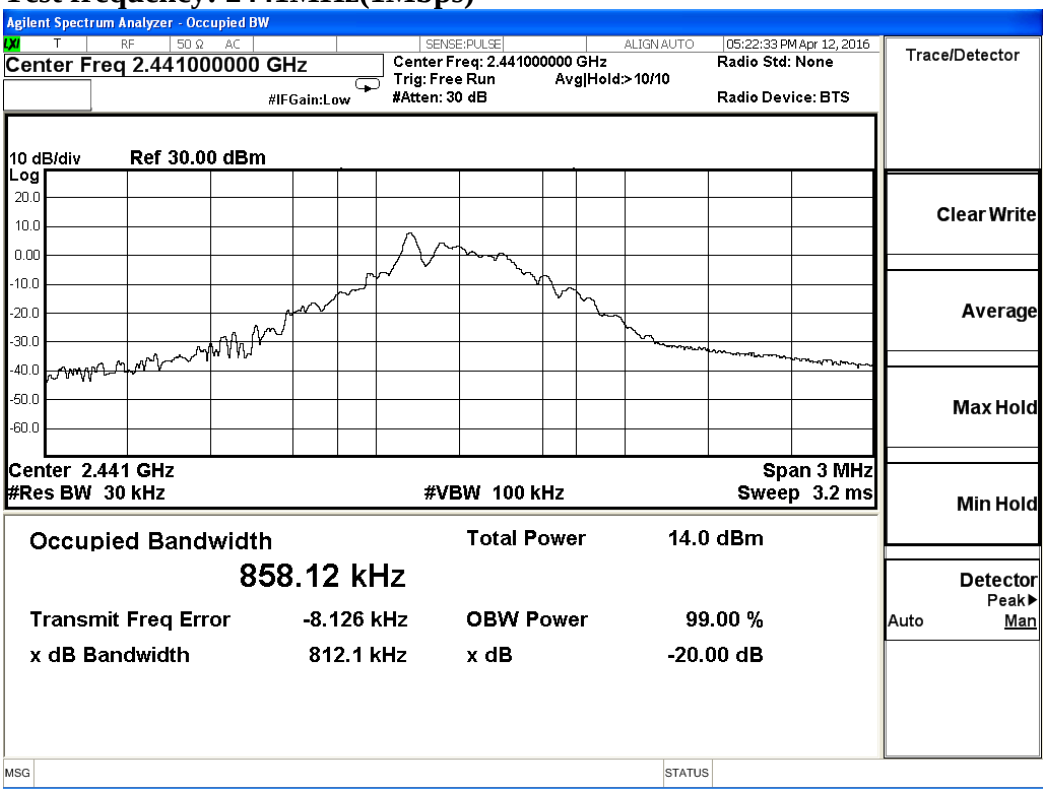


Measurement of 20dB Bandwidth

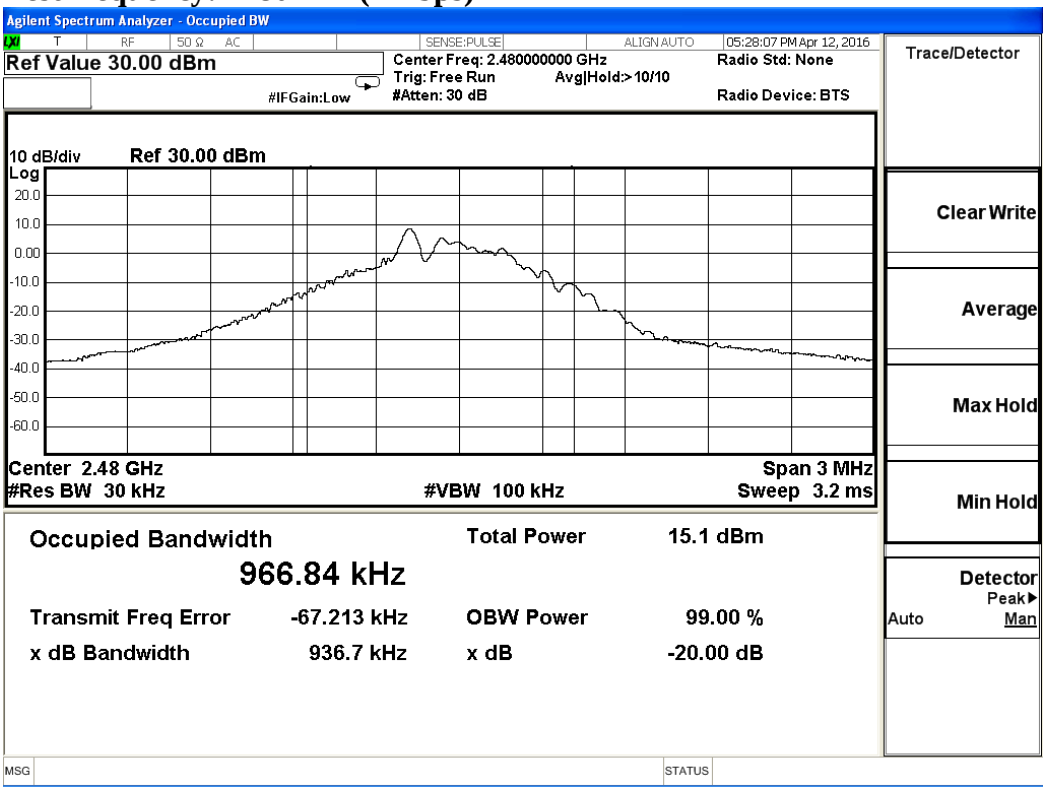
Test frequency: 2402MHz(1Mbps)



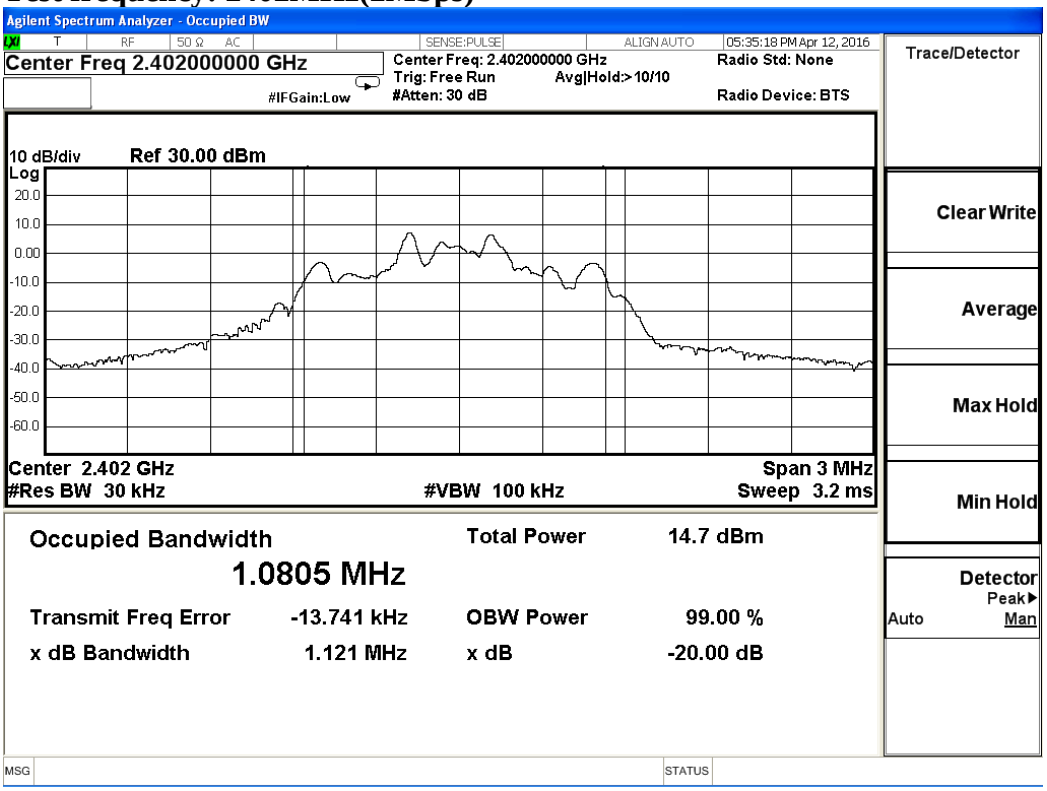
Test frequency: 2441MHz(1Mbps)



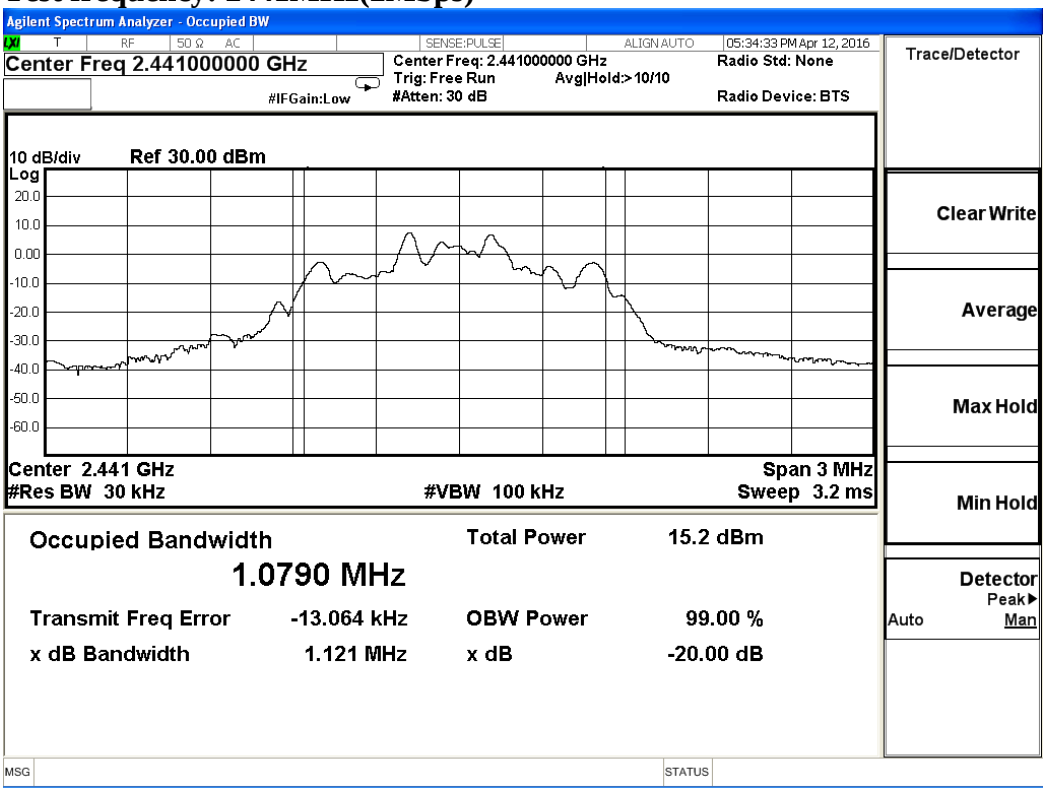
Test frequency: 2480MHz(1Mbps)



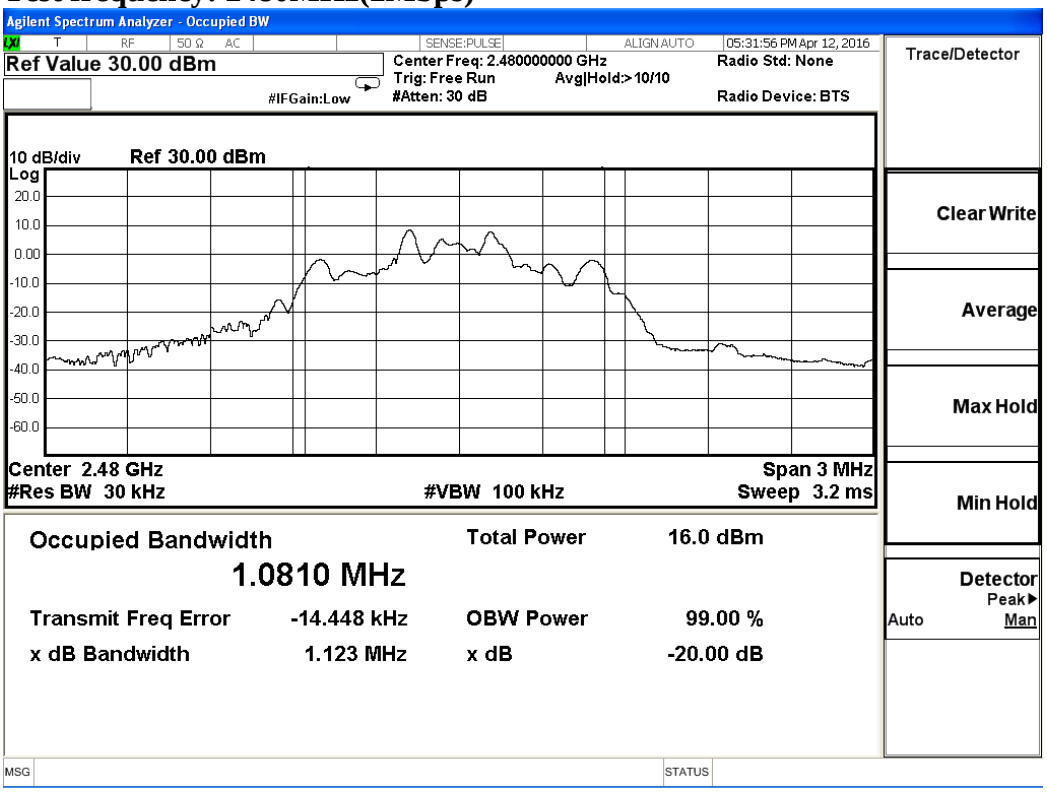
Test frequency: 2402MHz(2Mbps)



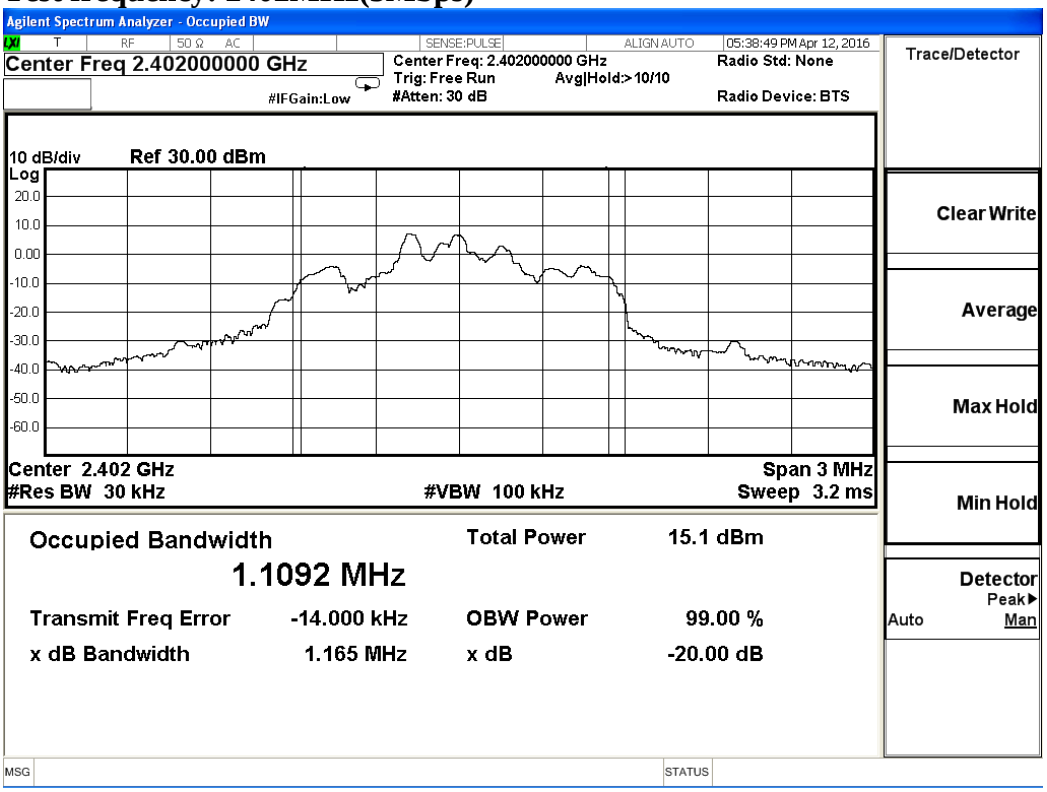
Test frequency: 2441MHz(2Mbps)



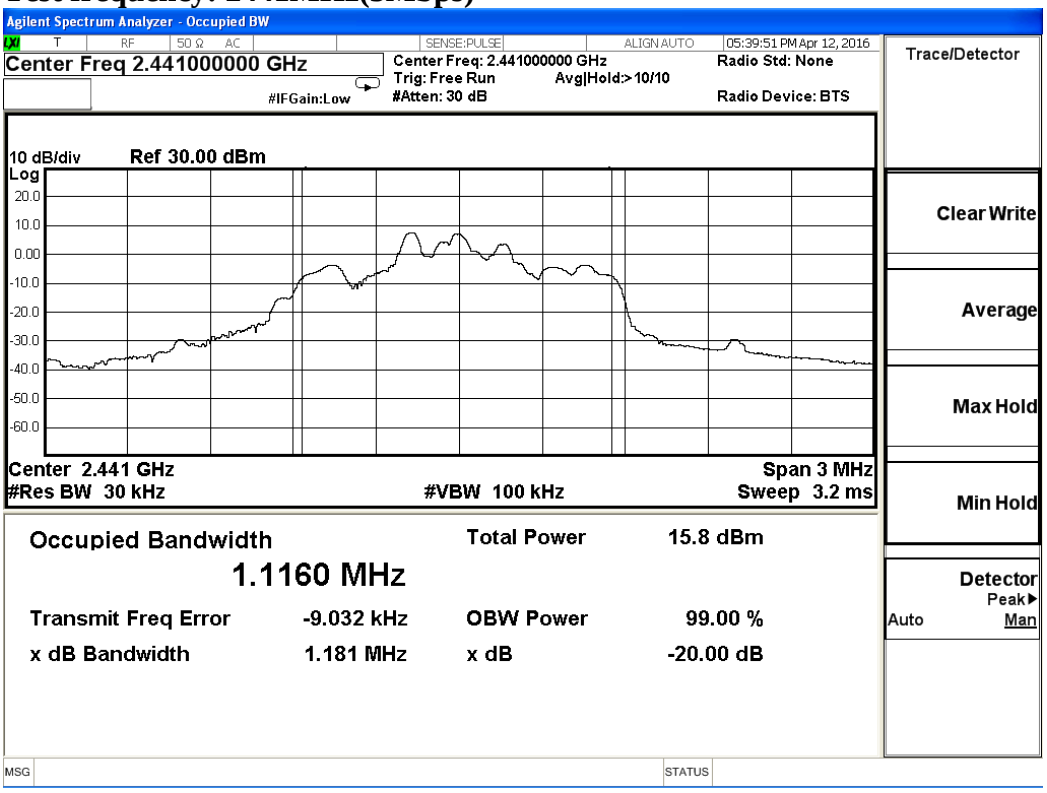
Test frequency: 2480MHz(2Mbps)



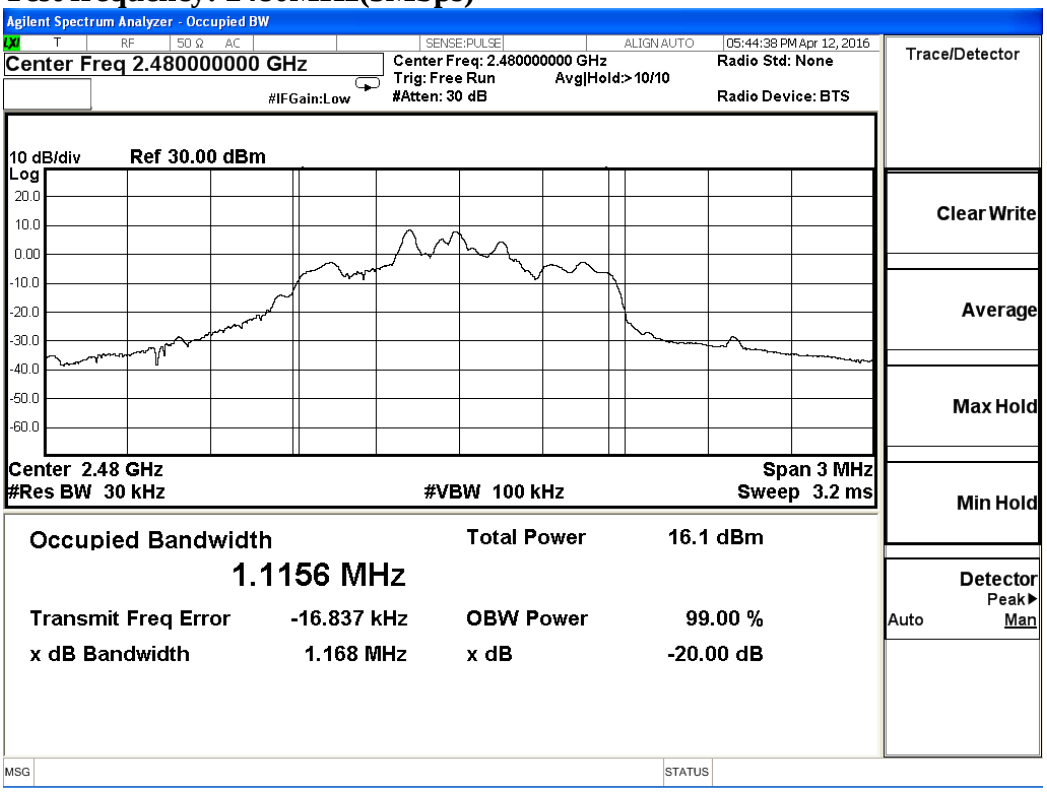
Test frequency: 2402MHz(3Mbps)



Test frequency: 2441MHz(3Mbps)



Test frequency: 2480MHz(3Mbps)

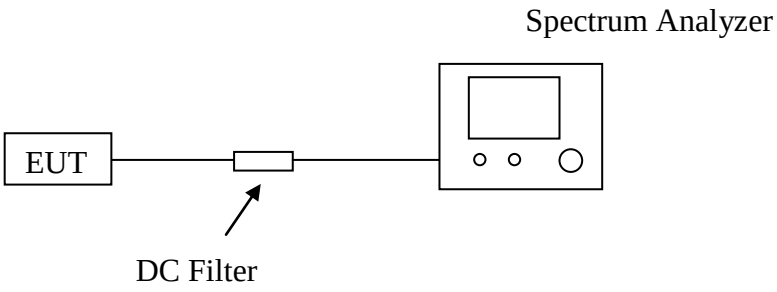


5.3 Number Of Hopping Frequency

5.3.1 Limit

According to §15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

5.3.2 Block Diagram of Test Setup



5.3.3 Test Procedure

A. Place the EUT on the table and set it in transmitting mode.
B. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
C. Set Spectrum Analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
D. Set the Spectrum Analyzer as RBW, VBW=1MHz.
E. Max hold, view and count how many channel in the band.

5.3.4 Test Results

Test Mode	Measurement Result (No. of Ch)	Limit (No. of Ch)	Result
Hopping(GFSK)	79	≥15	Pass
Hopping(π/4-DQPSK)	79	≥15	Pass
Hopping(8-DPSK)	79	≥15	Pass

The worst test data refer to the following page.

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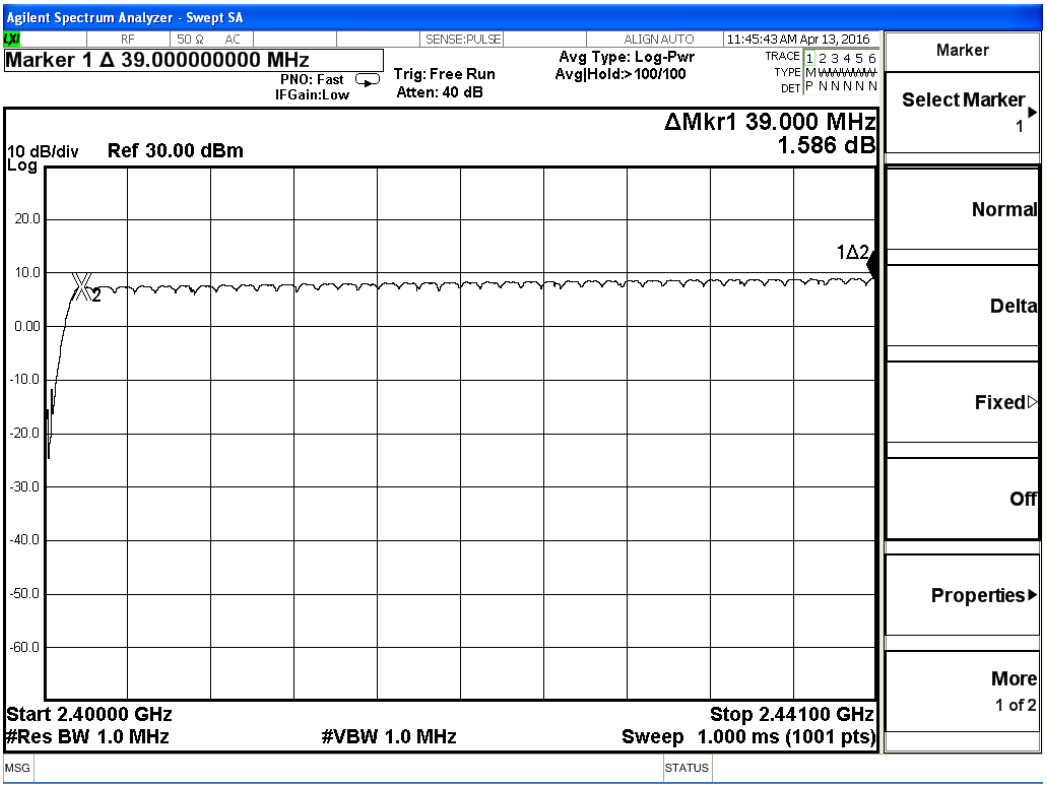
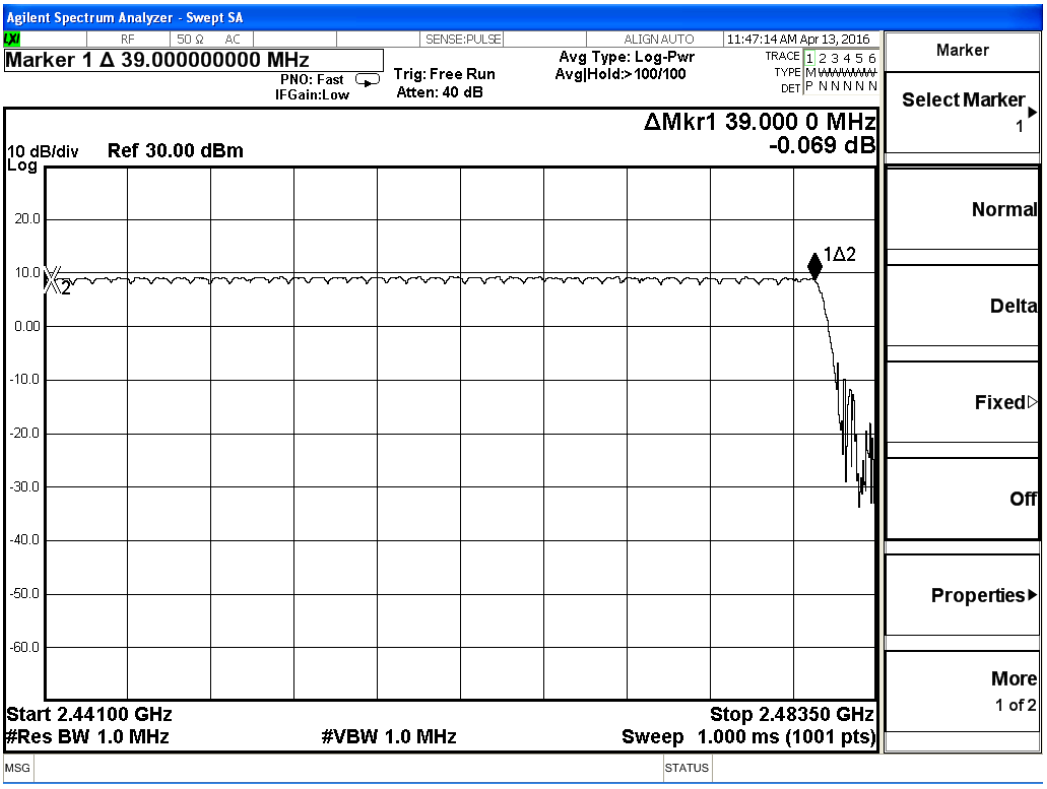
Test Plot For Number of Hopping Channel(GFSK)



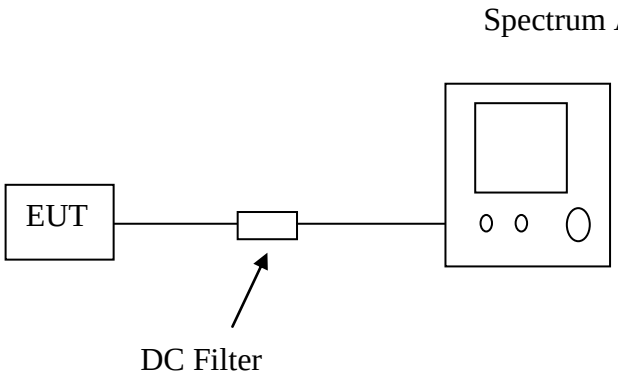


5.4 Time Of Occupancy (Dwell Time)

5.4.1 Limit

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4seconds multiplied by the number of hopping channels employed.

5.4.2 Block Diagram of Test Setup



5.4.3 Test Procedure

A. Place the EUT on the table and set it in transmitting mode.
B. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
C. Set center frequency of Spectrum Analyzer = operating frequency.
D. Set the Spectrum Analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
E. Repeat above procedures until all frequency measured were complete.

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5.4.4 Test Results

The Measurement Result With The Worst Case of 3Mbps For 8-DPSK Modulation				
Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.918	31.6	311.25	400
Middle	2.918	31.6	306.35	400
High	2.918	31.6	306.35	400

Low Channel

2.918*(1600/6)/79*31.6=311.25ms

Middle Channel

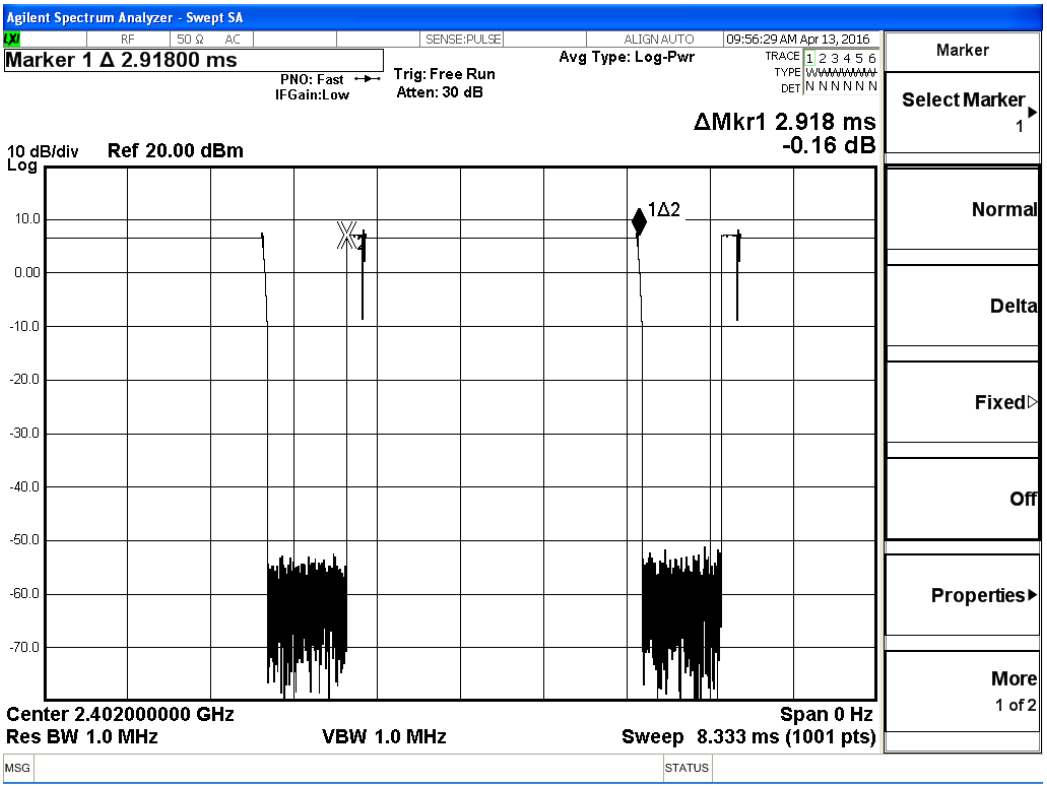
2.918*(1600/6)/79*31.6=311.25ms

High Channel

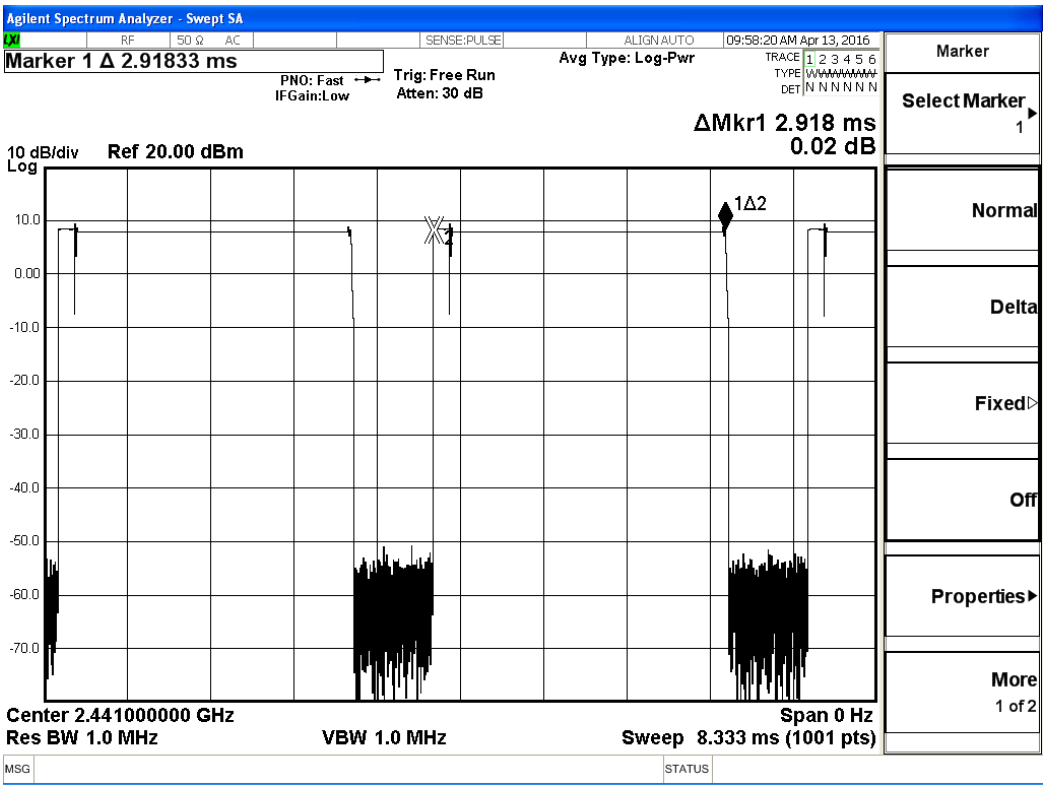
2.918*(1600/6)/79*31.6=311.25ms

The test data refer to the following:

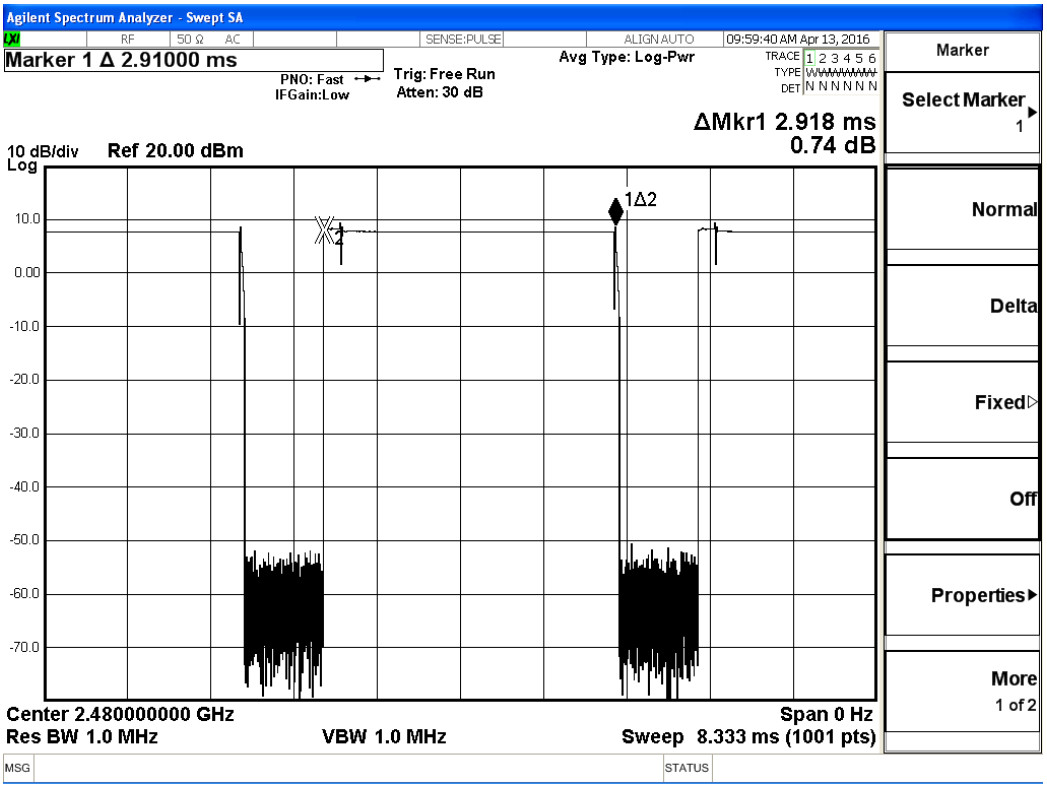
Low Channel



Middle Channel



High Channel

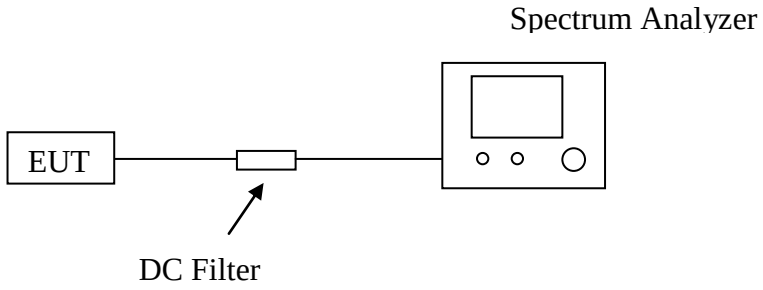


5.5 Conducted Spurious Emissions and Band Edges Test

5.5.1 Limit

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a)is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.5.2 Block Diagram of Test Setup



5.5.3 Test Procedure

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

Measurements are made over the 9kHz to 26.5GHz range with the transmitter set to the lowest, middle, and highest channels

5.5.4 Test Results of Conducted Spurious Emissions

No non-compliance noted. Only record the worst test result (TX-GFSK) in this report. The test data refer to the following page.

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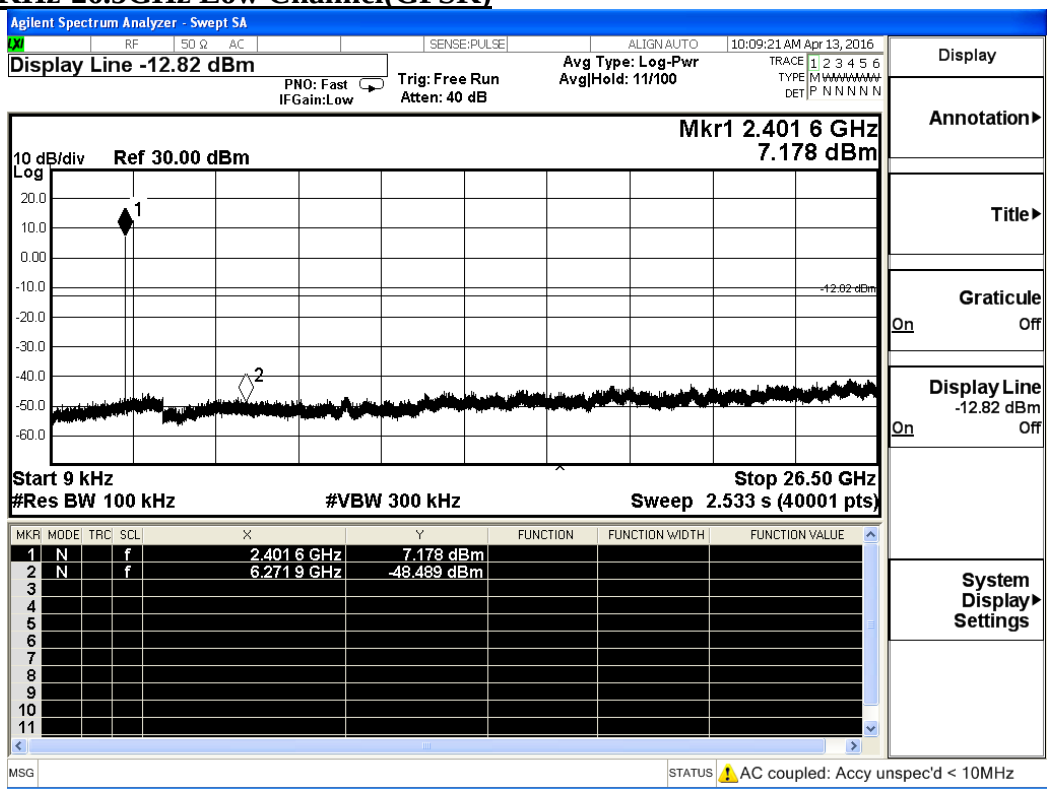
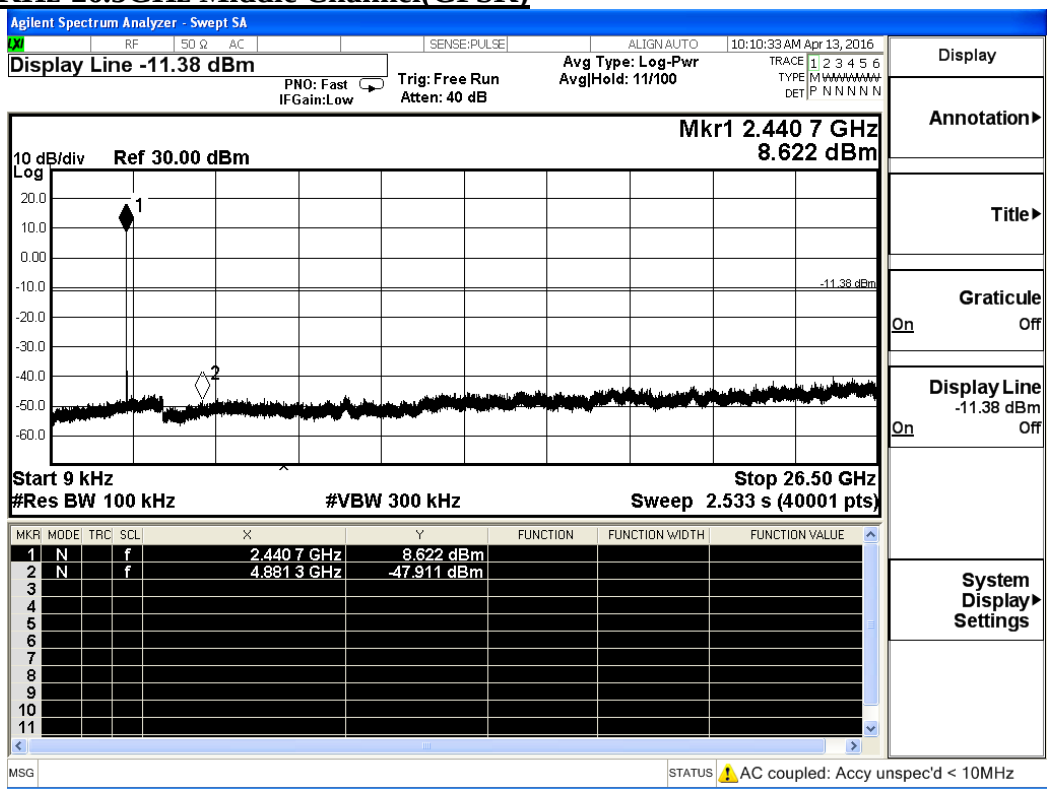
Test Plot

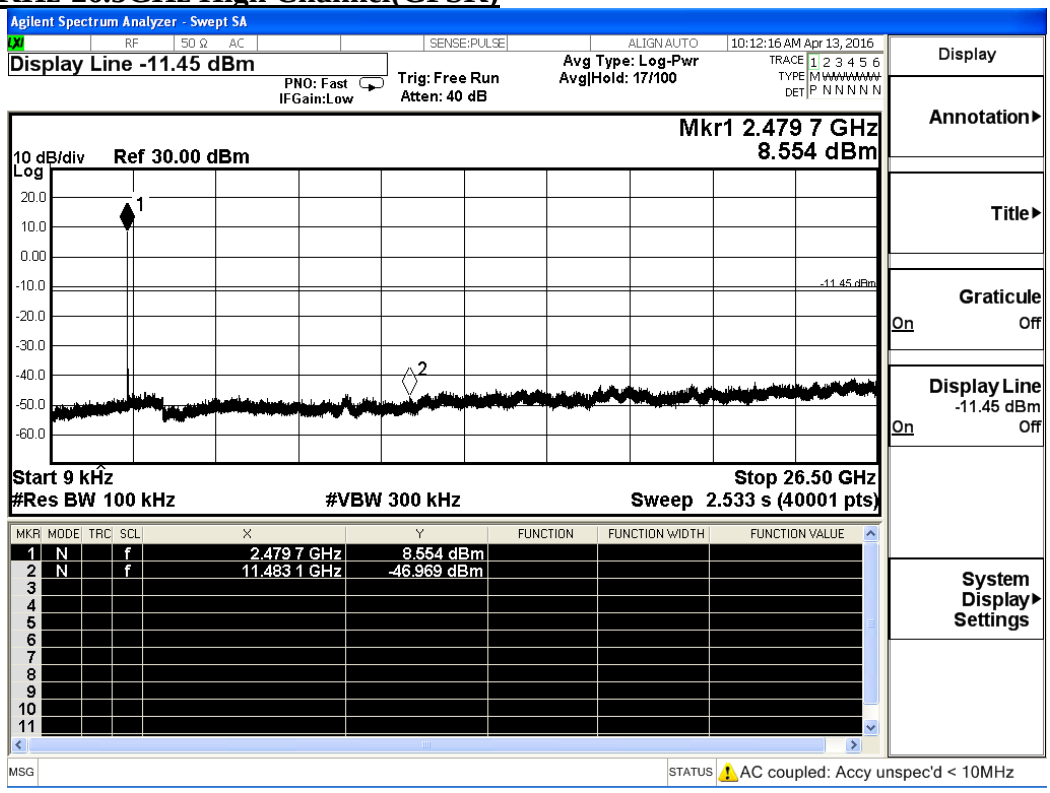
9KHz-26.5GHz Low Channel(GFSK)



9KHz-26.5GHz Middle Channel(GFSK)



9KHz-26.5GHz High Channel(GFSK)

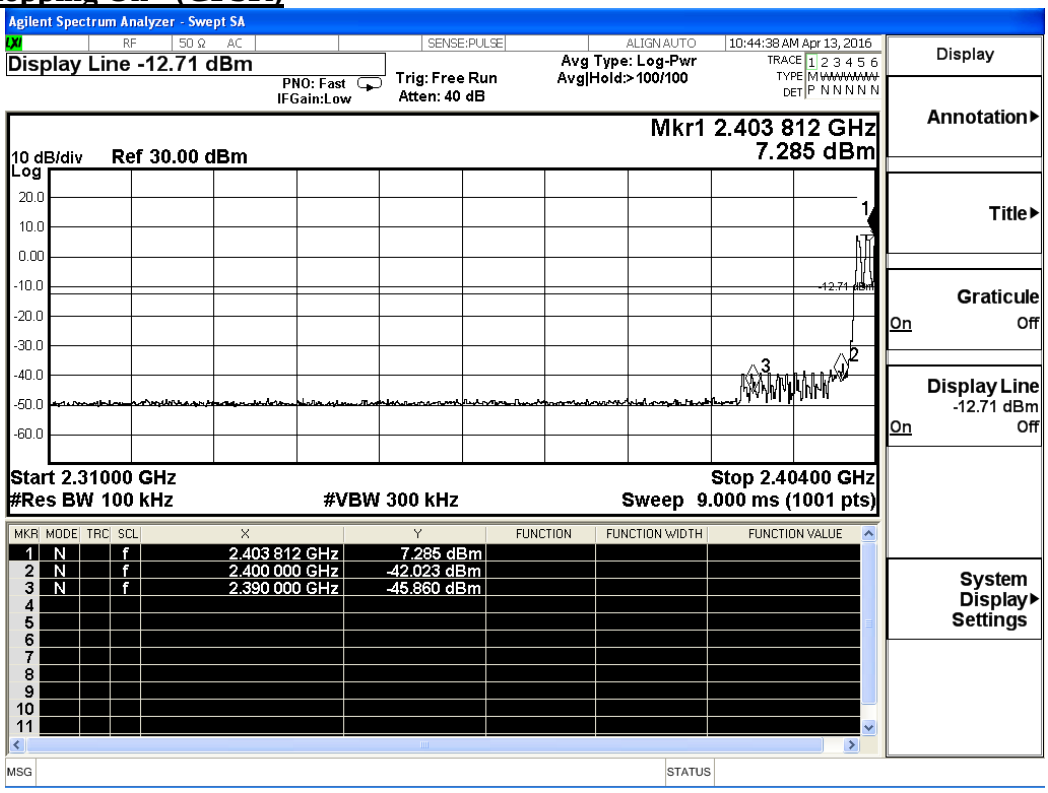


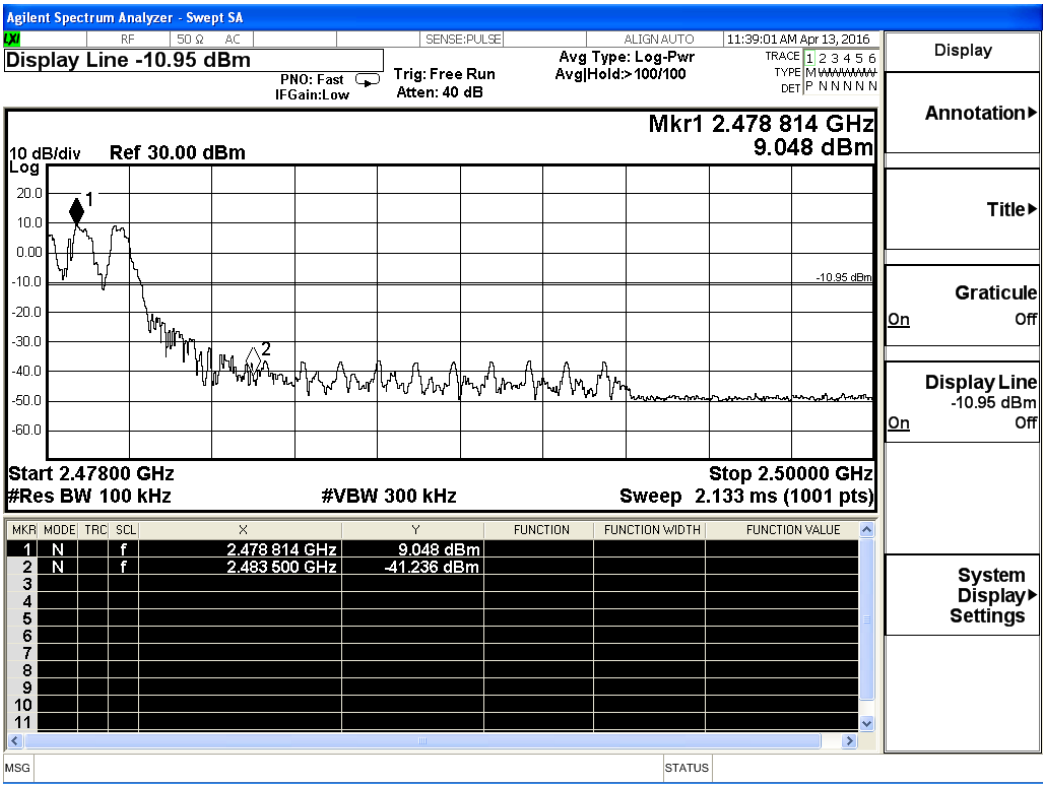
5.5.5 Test Results of Band Edges Test

No non-compliance noted. Only record the worst test result in this report. The test data refer to the following page.

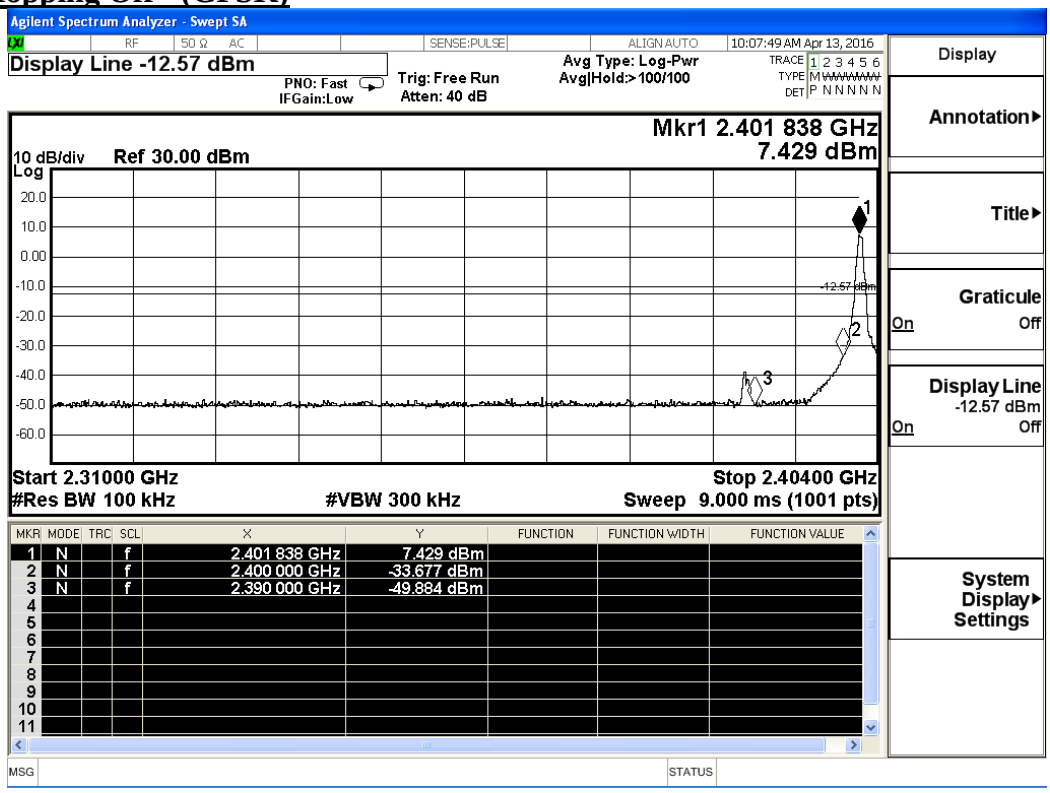
Test Plot

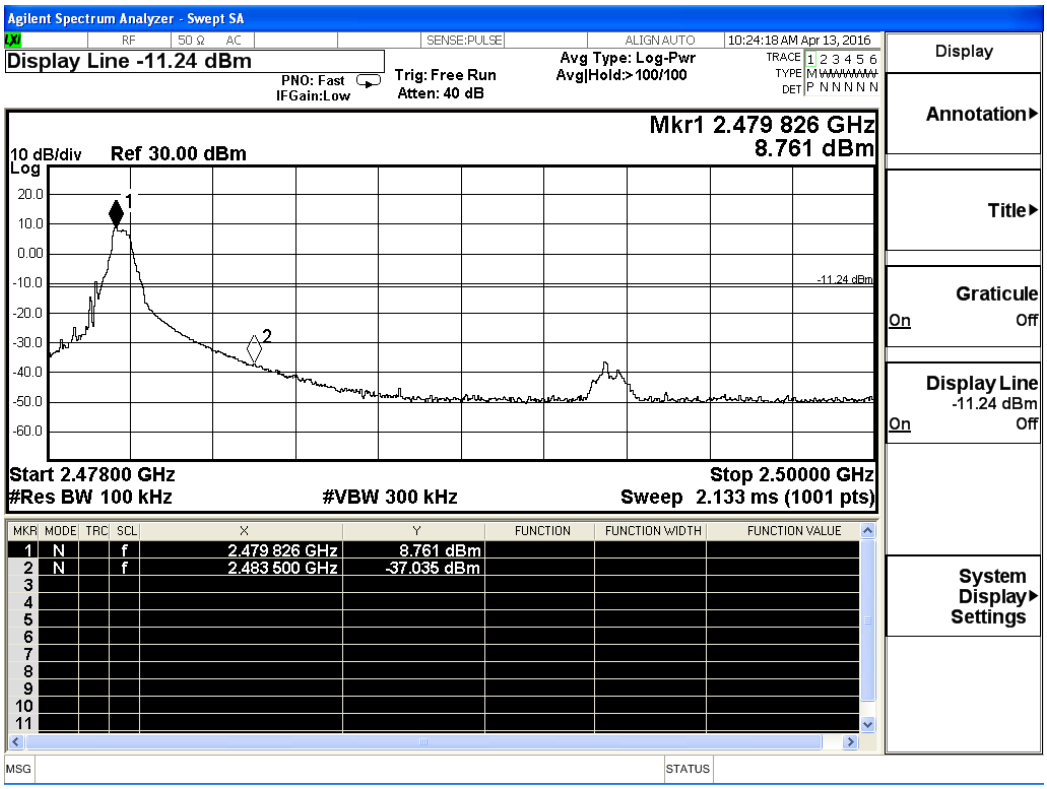
Hopping On - (GFSK)



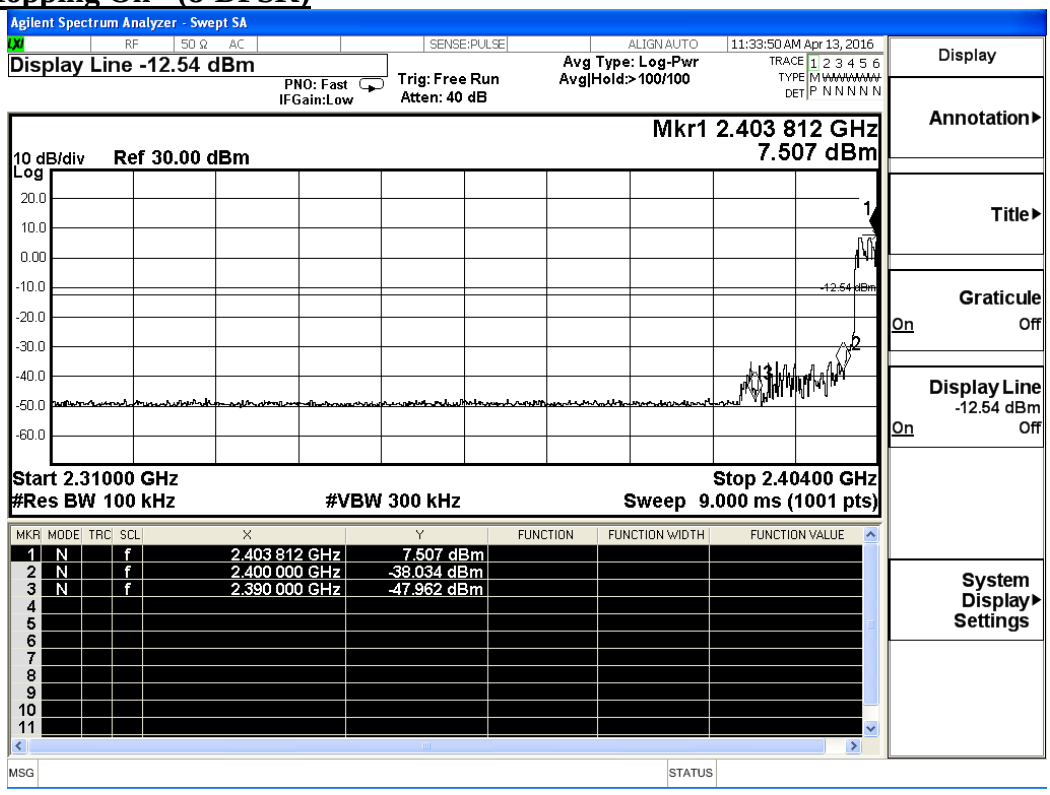


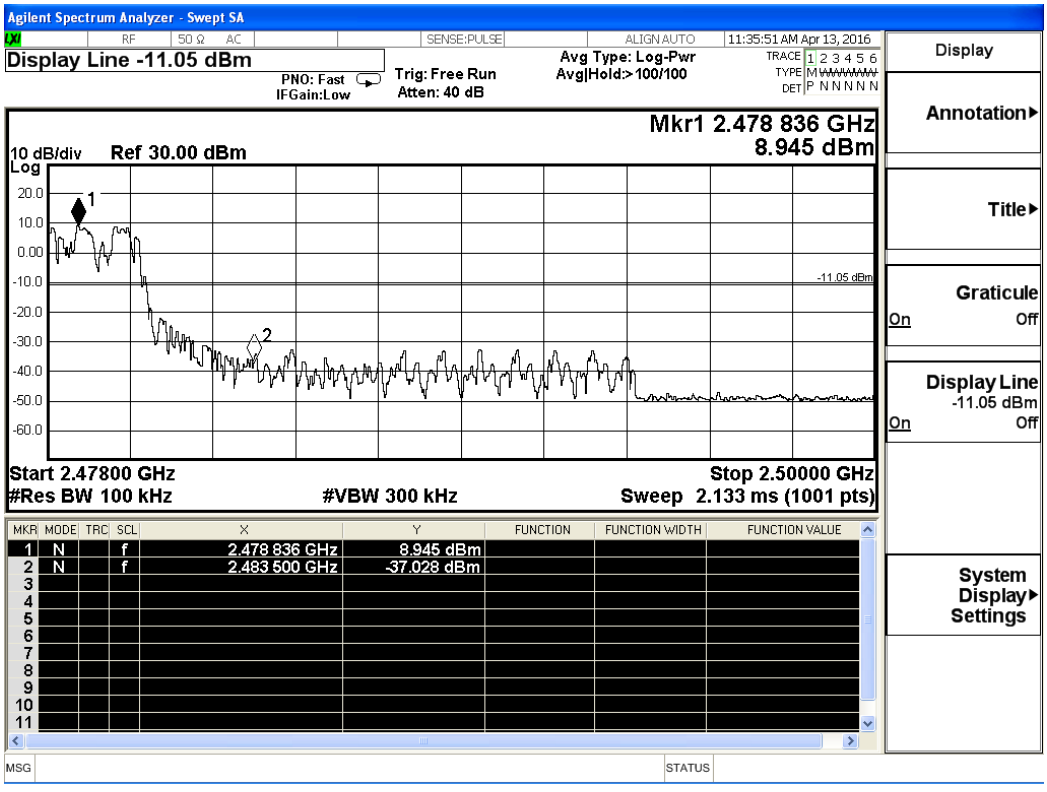
Hopping Off - (GFSK)



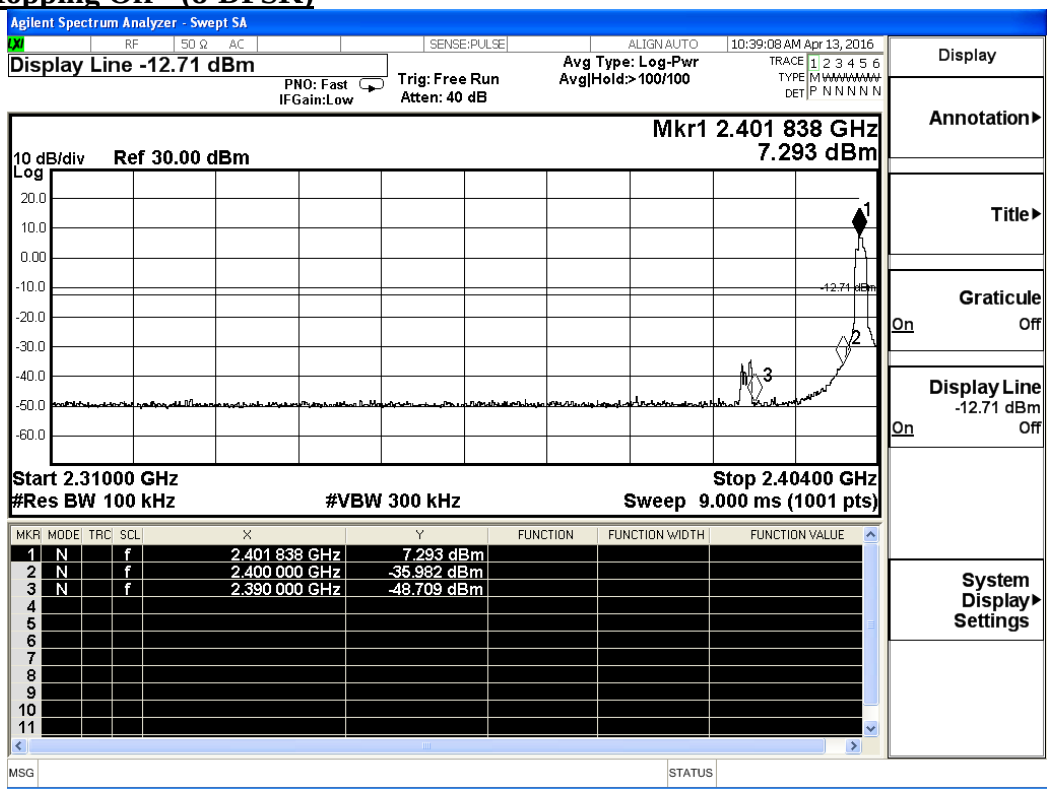


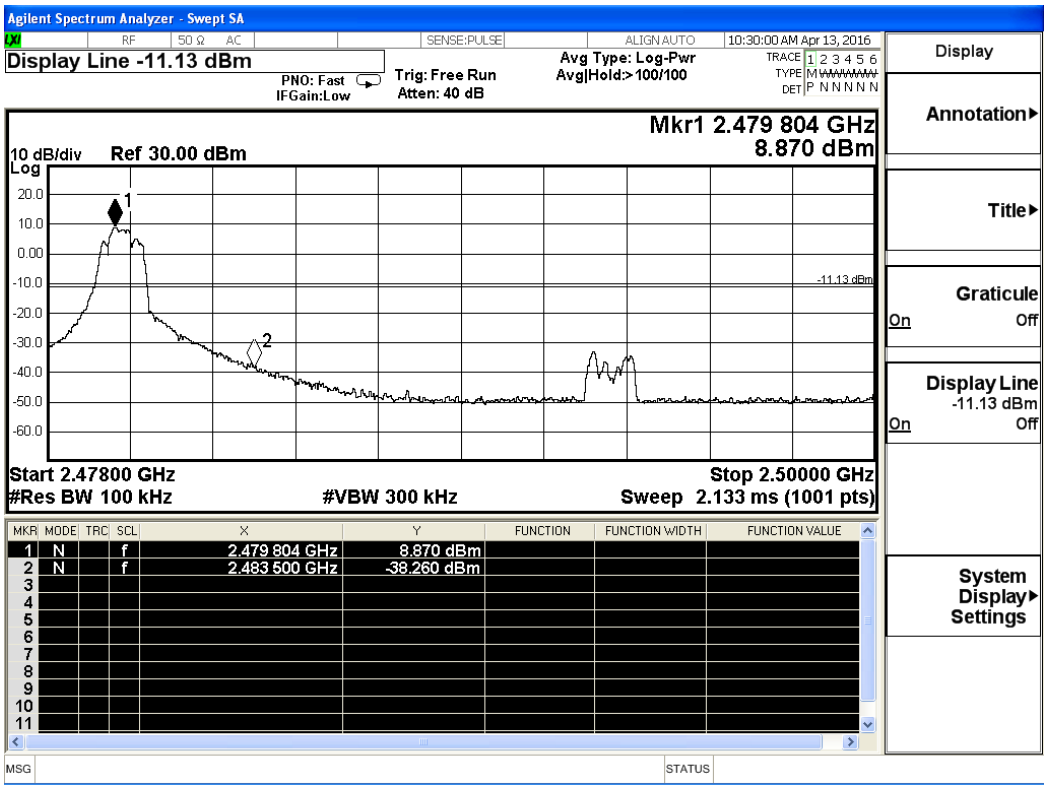
Hopping On - (8-DPSK)





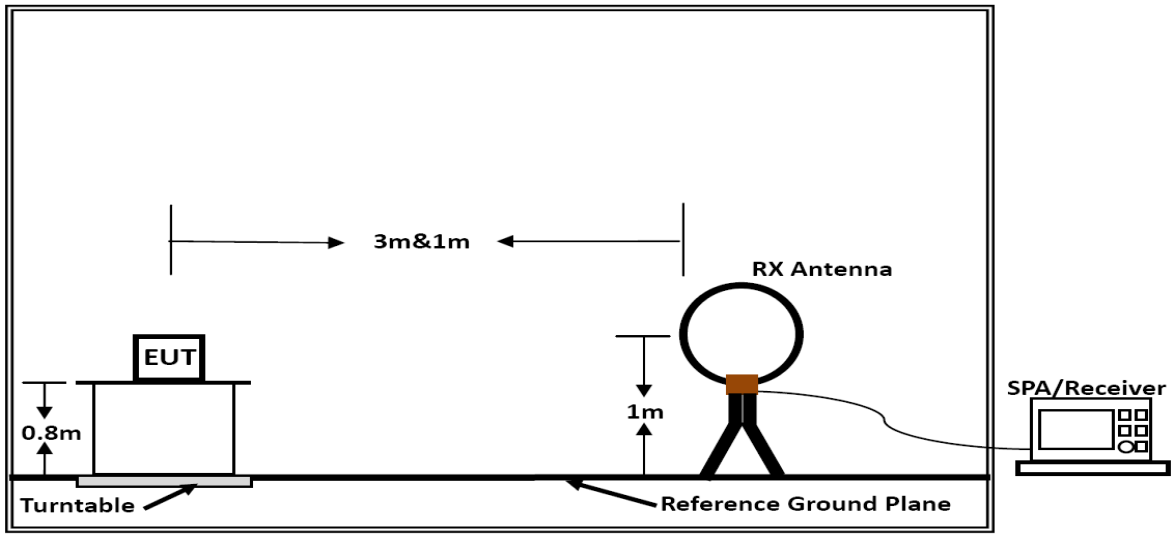
Hopping Off - (8-DPSK)



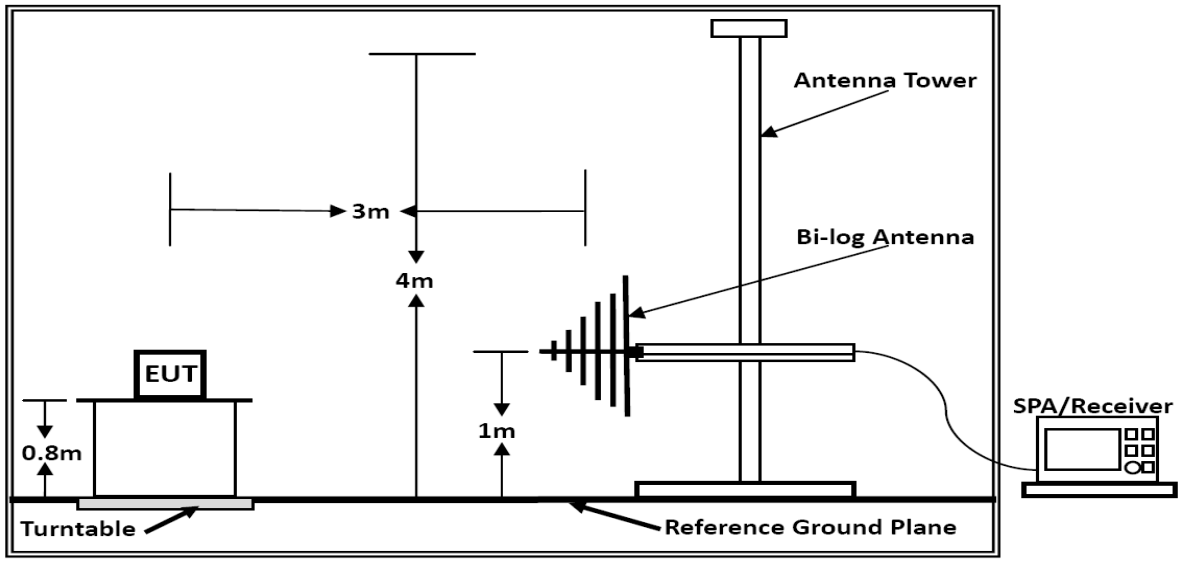


6. RADIATED MEASUREMENT

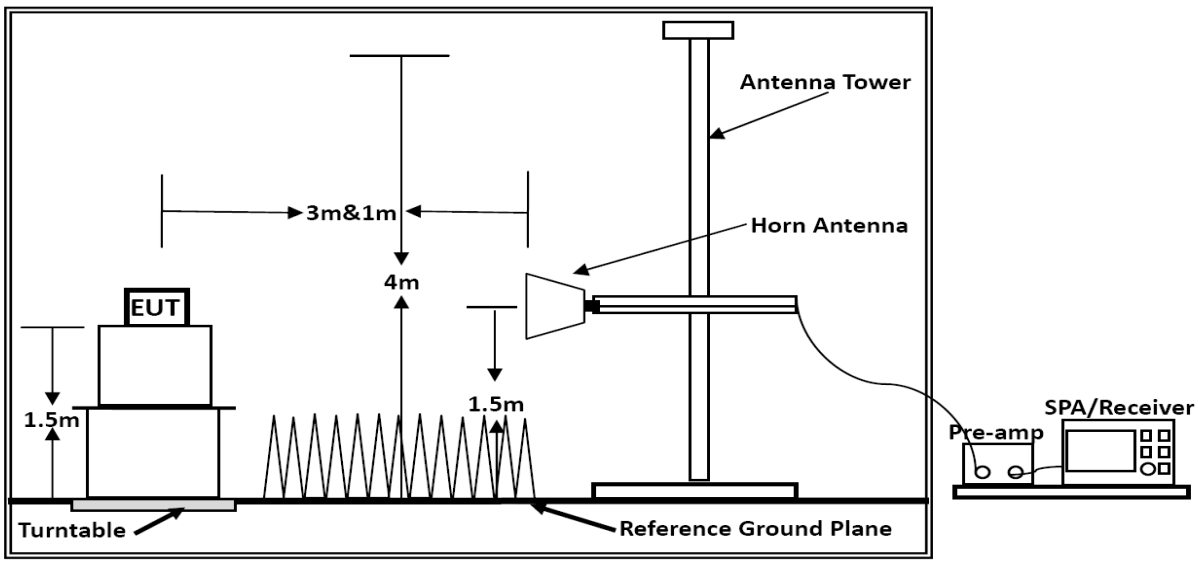
6.1 Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

6.2 Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510MHz.

\2\ Above 38.6

Part 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector.

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Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

Part 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100**	3
88–216	150**	3
216–960	200**	3
Above 960	500	3

6.3 Instruments Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

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6.4 Test Procedures

1) **Sequence of testing 9 kHz to 30 MHz**

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0 °to 315 °using 45 °steps.

--- The antenna height is 0.8 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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2) **Sequence of testing 30 MHz to 1 GHz**

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0 ° to 315 ° using 45 ° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45 °) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

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3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0 °to 315 °using 45 °steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (±45 °) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

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4) Sequence of testing above 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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6.5 Results for Radiated Emissions

PASS.

Only record the worst test result in this report.

The radiated emissions from 9kHz to 30MHz are at least 20dB below the official limit and no need to report.

The test data please refer to following page:

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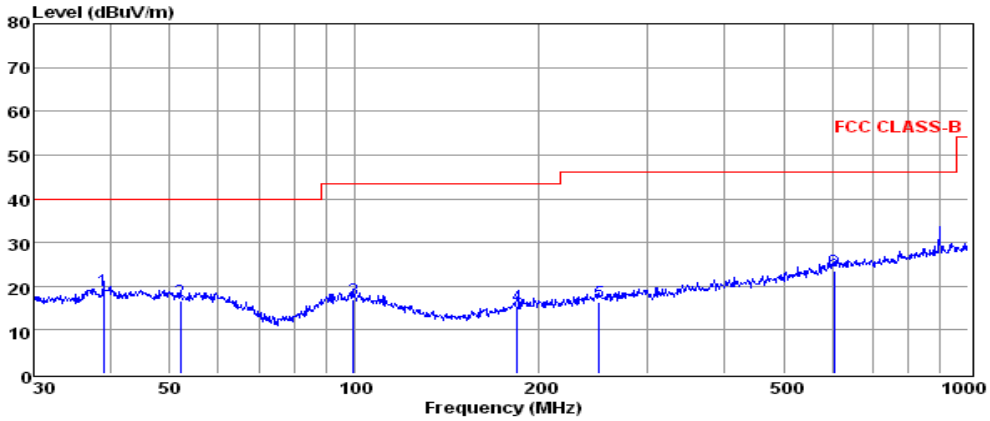
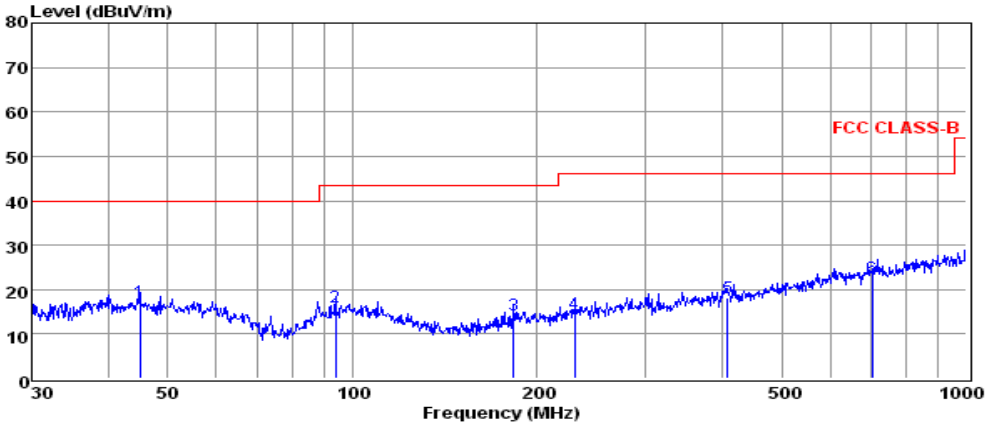
Below 1GHz



Env./Ins: 24℃/56%
pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	39.02	5.34	0.38	13.33	19.05	40.00	-20.95	QP
2	52.03	2.99	0.54	13.16	16.69	40.00	-23.31	QP
3	99.53	3.23	0.61	13.13	16.97	43.50	-26.53	QP
4	183.84	4.70	0.70	10.02	15.42	43.50	-28.08	QP
5	250.30	3.41	1.02	12.07	16.50	46.00	-29.50	QP
6	603.54	3.49	1.55	18.46	23.50	46.00	-22.50	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: 24℃/56%
pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	45.06	3.29	0.41	13.55	17.25	40.00	-22.75	QP
2	93.77	2.93	0.56	12.61	16.10	43.50	-27.40	QP
3	183.20	3.74	0.70	9.96	14.40	43.50	-29.10	QP
4	230.10	2.04	0.93	11.65	14.62	46.00	-31.38	QP
5	408.95	1.76	1.28	15.24	18.28	46.00	-27.72	QP
6	701.76	2.14	1.70	18.83	22.67	46.00	-23.33	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

****Note:*

Pre-scan all mode and recorded the worst case results in this report (TX(1Mbps-Low Channel)).
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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Above 1GHz

Note: Only recorded the worst test result.
The worst test result for GFSK, Tx-Low Channel:

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.11	42.92	33.06	35.04	3.94	44.88	74	-29.12	Peak	Horizontal
4804.13	33.57	33.06	35.04	3.94	35.53	54	-18.47	Average	Horizontal
4804.11	43.39	33.06	35.04	3.94	45.35	74	-28.65	Peak	Vertical
4804.13	36.41	33.06	35.04	3.94	38.37	54	-15.63	Average	Vertical

The worst test result for GFSK, Tx-Middle Channel:

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.17	41.32	33.16	35.15	3.96	43.29	74	-30.71	Peak	Horizontal
4882.20	32.92	33.16	35.15	3.96	34.89	54	-19.11	Average	Horizontal
4882.17	43.00	33.16	35.15	3.96	44.97	74	-29.03	Peak	Vertical
4882.20	33.04	33.16	35.15	3.96	35.01	54	-18.99	Average	Vertical

The worst test result for GFSK, Tx-High Channel:

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab.. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.23	41.44	33.26	35.14	3.98	43.54	74	-30.46	Peak	Horizontal
4960.26	33.10	33.26	35.14	3.98	35.20	54	-18.80	Average	Horizontal
4960.23	43.28	33.26	35.14	3.98	45.38	74	-28.62	Peak	Vertical
4960.26	33.23	33.26	35.14	3.98	35.33	54	-18.67	Average	Vertical

Notes:

1. Measuring frequencies from 9k~10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30MHz.

2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.

3. 18~25GHz at least have 20dB margin. No recording in the test report.

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6.6 Results for Band edge Testing (Radiated)

Note: Only recorded the worst test result.

Tx-2402, GFSK, Non-hopping

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2375.47	44.38	32.89	35.16	3.51	45.62	74	-28.38	Peak	Horizontal
2375.50	33.57	32.90	35.16	3.51	34.82	54	-19.18	Average	Horizontal
2390.00	42.37	32.92	35.16	3.54	43.67	74	-30.33	Peak	Horizontal
2389.97	32.91	32.92	35.16	3.54	34.21	54	-19.79	Average	Horizontal
2400.00	45.92	32.92	35.16	3.54	47.22	74	-26.78	Peak	Horizontal
2399.97	36.33	32.92	35.16	3.54	37.63	54	-16.37	Average	Horizontal
2375.47	46.19	32.89	35.16	3.51	47.43	74	-26.57	Peak	Vertical
2375.50	35.52	32.90	35.16	3.51	36.77	54	-17.23	Average	Vertical
2390.00	44.08	32.92	35.16	3.54	45.38	74	-28.62	Peak	Vertical
2389.97	33.82	32.92	35.16	3.54	35.12	54	-18.88	Average	Vertical
2400.00	45.58	32.92	35.16	3.54	46.88	74	-27.12	Peak	Vertical
2399.97	37.03	32.92	35.16	3.54	38.33	54	-15.67	Average	Vertical

Tx-2480, GFSK, Non-hopping

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	41.49	33.06	35.18	3.60	42.97	74	-31.03	Peak	Horizontal
2483.53	31.70	33.08	35.18	3.60	33.20	54	-20.80	Average	Horizontal
2487.61	43.02	33.08	35.18	3.62	44.54	74	-29.46	Peak	Horizontal
2487.64	33.24	33.08	35.18	3.62	34.76	54	-19.24	Average	Horizontal
2483.50	42.40	33.06	35.18	3.60	43.88	74	-30.12	Peak	Vertical
2483.53	32.86	33.08	35.18	3.60	34.36	54	-19.64	Average	Vertical
2487.61	43.36	33.08	35.18	3.62	44.88	74	-29.12	Peak	Vertical
2487.64	32.31	33.08	35.18	3.62	33.83	54	-20.17	Average	Vertical

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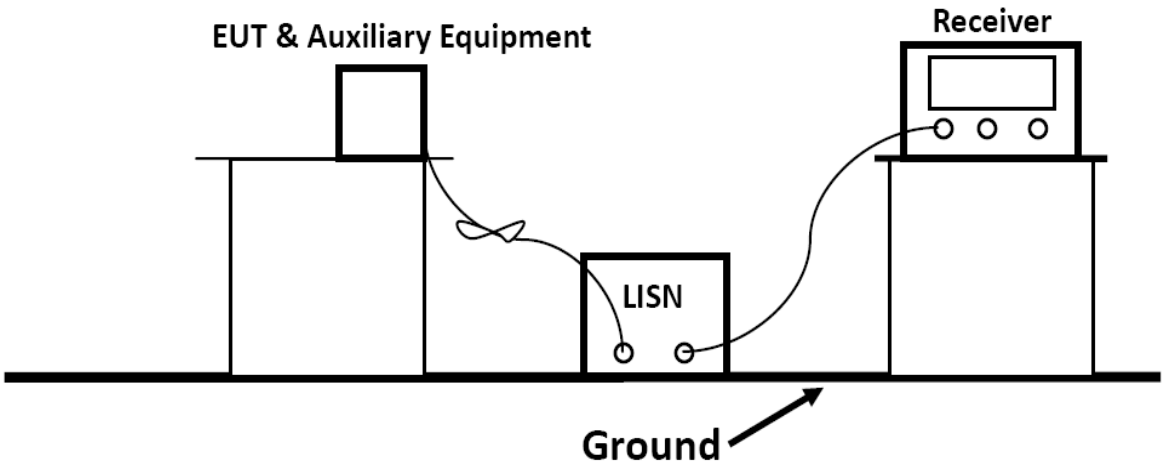
7. LINE CONDUCTED EMISSIONS

7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which 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 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range(MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

7.2 Block Diagram of Test Setup



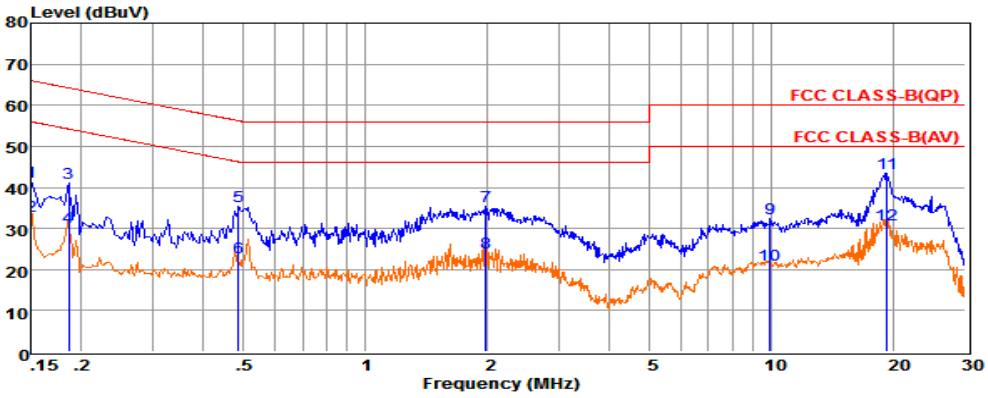
7.3 Test Results

During the test the EUT user a Laptop as a auxiliary equipment.

PASS.

The test data please refer to following page.

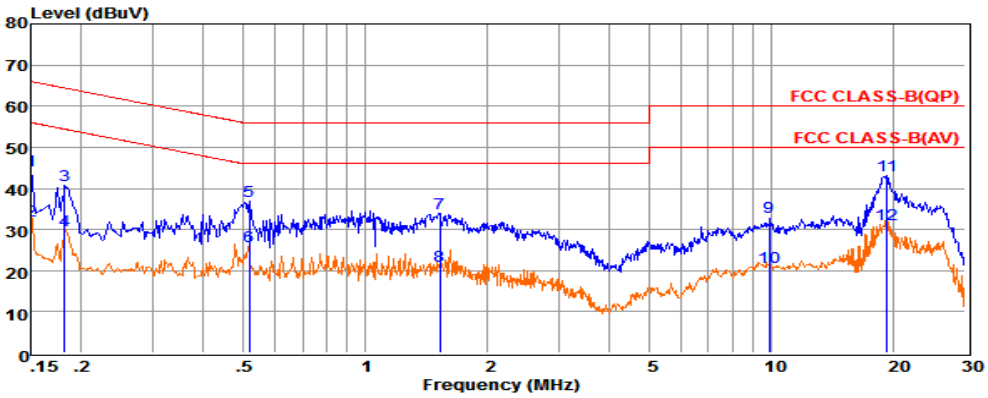
Test Result For Line Power Input AC 240V/60Hz



Env. Ins: 24*/56%
Pol: NEUTRAL

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	21.70	9.70	0.02	10.00	41.42	66.00	-24.58	QP
2	0.15010	13.40	9.70	0.02	10.00	33.12	55.99	-22.87	Average
3	0.18639	21.42	9.62	0.02	10.00	41.06	64.20	-23.14	QP
4	0.18649	10.75	9.62	0.02	10.00	30.39	54.19	-23.80	Average
5	0.48632	15.78	9.62	0.04	10.00	35.44	56.23	-20.79	QP
6	0.48642	3.20	9.62	0.04	10.00	22.86	46.23	-23.37	Average
7	1.98013	15.76	9.63	0.05	10.00	35.44	56.00	-20.56	QP
8	1.98113	4.54	9.63	0.05	10.00	24.22	46.00	-21.78	Average
9	9.91302	12.74	9.72	0.08	10.00	32.54	60.00	-27.46	QP
10	9.91402	1.21	9.72	0.08	10.00	21.01	50.00	-28.99	Average
1119	.22360	23.34	9.86	0.12	10.00	43.32	60.00	-16.68	QP
1219	.22460	11.05	9.86	0.12	10.00	31.03	50.00	-18.97	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.



Env. Ins: 24*/56%
Pol: LINE

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	24.86	9.57	0.02	10.00	44.45	66.00	-21.55	QP
2	0.15010	12.41	9.57	0.02	10.00	32.00	55.99	-23.99	Average
3	0.18152	21.02	9.61	0.02	10.00	40.65	64.42	-23.77	QP
4	0.18162	10.08	9.61	0.02	10.00	29.71	54.41	-24.70	Average
5	0.51824	17.18	9.62	0.04	10.00	36.84	56.00	-19.16	QP
6	0.51834	6.18	9.62	0.04	10.00	25.84	46.00	-20.16	Average
7	1.52736	14.26	9.64	0.05	10.00	33.95	56.00	-22.05	QP
8	1.52836	1.50	9.64	0.05	10.00	21.19	46.00	-24.81	Average
9	9.86064	13.14	9.69	0.08	10.00	32.91	60.00	-27.09	QP
10	9.86164	1.03	9.69	0.08	10.00	20.80	50.00	-29.20	Average
1119	.22360	23.36	9.75	0.12	10.00	43.23	60.00	-16.77	QP
1219	.22460	11.31	9.75	0.12	10.00	31.18	50.00	-18.82	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

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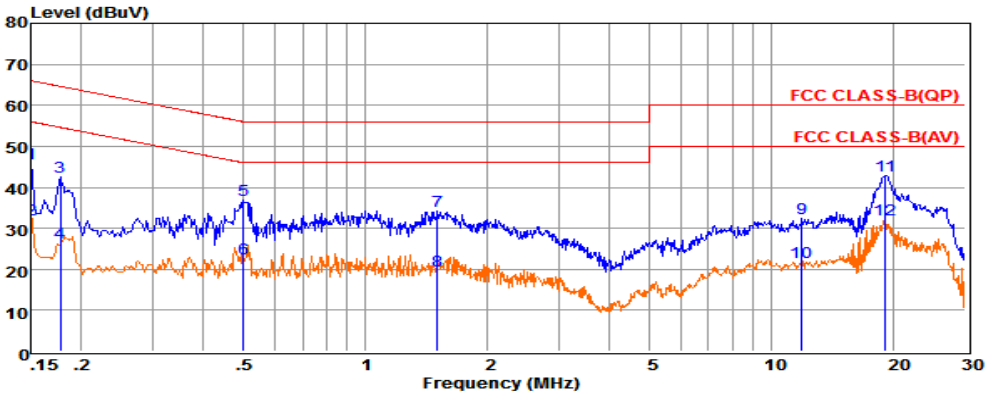
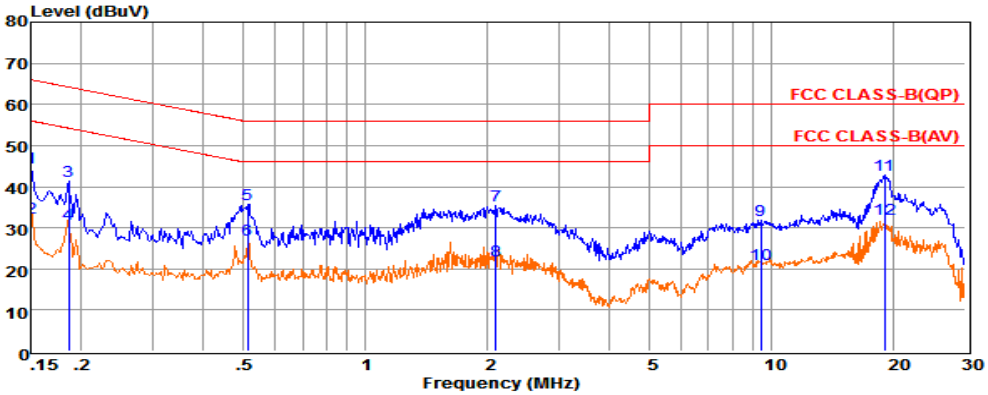
Test Result For Line Power Input AC 120V/60Hz



Env. Ins: 24*/56%
Pol: LINE

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	26.08	9.57	0.02	10.00	45.67	66.00	-20.33	QP
2	0.15010	12.66	9.57	0.02	10.00	32.25	55.99	-23.74	Average
3	0.17772	22.89	9.61	0.02	10.00	42.52	64.59	-22.07	QP
4	0.17782	6.71	9.61	0.02	10.00	26.34	54.59	-28.25	Average
5	0.50203	17.30	9.62	0.04	10.00	36.96	56.00	-19.04	QP
6	0.50213	3.05	9.62	0.04	10.00	22.71	46.00	-23.29	Average
7	1.50328	14.54	9.64	0.05	10.00	34.23	56.00	-21.77	QP
8	1.50428	0.08	9.64	0.05	10.00	19.77	46.00	-26.23	Average
	911.86973	12.70	9.70	0.09	10.00	32.49	60.00	-27.51	QP
	1011.87073	1.95	9.70	0.09	10.00	21.74	50.00	-28.26	Average
	1119.12202	22.88	9.75	0.12	10.00	42.75	60.00	-17.25	QP
	1219.12302	12.30	9.75	0.12	10.00	32.17	50.00	-17.83	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.



Env. Ins: 24*/56%
Pol: NEUTRAL

	Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.15000	24.77	9.70	0.02	10.00	44.49	66.00	-21.51	QP
2	0.15010	12.70	9.70	0.02	10.00	32.42	55.99	-23.57	Average
3	0.18639	21.55	9.62	0.02	10.00	41.19	64.20	-23.01	QP
4	0.18649	11.33	9.62	0.02	10.00	30.97	54.19	-23.22	Average
5	0.51278	16.05	9.62	0.04	10.00	35.71	56.00	-20.29	QP
6	0.51288	7.46	9.62	0.04	10.00	27.12	46.00	-18.88	Average
7	2.09896	15.60	9.63	0.05	10.00	35.28	56.00	-20.72	QP
8	2.09996	2.41	9.63	0.05	10.00	22.09	46.00	-23.91	Average
9	9.40147	12.00	9.71	0.08	10.00	31.79	60.00	-28.21	QP
10	9.40247	1.37	9.71	0.08	10.00	21.16	50.00	-28.84	Average
	1119.02097	22.87	9.85	0.12	10.00	42.84	60.00	-17.16	QP
	1219.02197	12.10	9.85	0.12	10.00	32.07	50.00	-17.93	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
2. The emission levels that are 20dB below the official limit are not reported.

Note: Pre-scan all modes and recorded the worst case results in this report.

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8. ANTENNA REQUIREMENT

8.1 Standard Applicable

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 use of a standard antenna jack or electrical connector is prohibited.

8.2 Antenna Connected Construction

8.2.1. Antenna Connector Construction

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

8.2.2. Results: Compliance.

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9. LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	June 18,2015	June 17,2016
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	July 16,2015	July 15,2016
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	June 18,2015	June 17,2016
LISN (Support Unit)	EMCO	3819/2NM	9703-1839	9KHz-30MHz	June 18,2015	June 17,2016
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	June 18,2015	June 17,2016
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	June 18,2015	June 17,2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-1GHz 3m	June 18,2015	June 17,2016
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	June 18,2015	June 17,2016
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 16,2015	July 15,2016
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	July 16,2015	July 15,2016
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	July 16,2015	July 15,2016
MAX Signal Analyzer	Agilent	N9020A	MY50510140	20Hz~26.5GHz	Oct. 27, 2014	Oct. 26, 2015
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 18,2015	June 17,2016
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	June 10,2015	June 09,2016
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 10,2015	June 09,2016
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	June 10,2015	June 09,2016
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 18,2015	June 17,2016
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 18,2015	June 17,2016
Power Meter	R&S	NRVS	100444	DC-40GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	June 18,2015	June 17,2016
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 18,2015	June 17,2016
RF CABLE-2m	JYE Bao	RG142	CB035-2m	20MHz-1GHz	June 18,2015	June 17,2016
Note: All equipment through GRGT EST calibration						

----------THE END OF REPORT----------

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