FCC 47 CFR PART 15 SUBPART C
TEST REPORT

For

Product Name: 4K Media Player

Brand Name: LYNX

Model No.: 850-046445

Series Model.: N/A

FCC ID: 2ABMA-850-046445

Test Report Number:

C170811R01-RPB

Issued for

Lynx Innovation Limited

Unit 8A, 331 Rosedale Road, Albany 0632, North Shore City , New Zealand

Issued by

Compliance Certification Services Inc.

Kun shan Laboratory

**No.10 Weiye Rd., Innovation park, Eco&Tec,
Development Zone, Kunshan City, Jiangsu, China**

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TESTING CERT #2541.01

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	September 12, 2017	C17811R01-RPB	ALL	N/A

1. TEST RESULT CERTIFICATION

Product Name:	4K Media Player
Trade Name:	LYNX
Model Name:	850-046445
Series Model:	N/A
Applicant Discrepancy:	Initial
Device Category:	Mobile unit
Date of Test:	September 4, 2017~September 8, 2017
Applicant:	**Lynx Innovation Limited** Unit 8A, 331 Rosedale Road, Albany 0632, North Shore City , New Zealand
Manufacturer:	**Jiaxing Lynx Displays Limited** 1F,Bldg#7,No.3288,Zhongshan Xi Road,Xiuzhou Industrial Park,Jiaxing, Zhejiang,China
Application Type:	Certification

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
FCC 47 CFR Part 15 Subpart C	No non-compliance noted

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Jeff.Fang
RF Manager
Compliance Certification Services Inc.

Tested by:

James.Yan
Test Engineer
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product Name:	4K Media Player
Brand Name:	LYNX
Model Name:	850-046445
Series Model:	N/A
Model Discrepancy:	N/A
EUT Power Rating:	DC 12V
Frequency Range :	Bluetooth:2402 ~ 2480 MHz
Transmit Power :	Bluetooth:9.51dBm
Modulation Technique :	Bluetooth: FHSS
Transmit Data Rate :	Bluetooth: GFSK(1 Mbps),π/4-DQPSK(2 Mbps),8-DPSK(3 Mbps)
Number of Channels :	Bluetooth: 79 Channels
Antenna Specification:	Dipole antenna Gain: 2dBi

Remark:

1.The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2.This submittal(s) (test report) is intended for ***FCC ID: 2ABMA-850-046445*** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 ,15.247.

3.1 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.

3.2 EXERCISEEUT

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 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

Under 1GHz

The EUT is placed on a turn table, which is 0.8 m above ground plane. 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 13.1.4.1 of ANSI C63.10.

Above 1GHz

The EUT is placed on a turn table, which is 1.5 m above ground plane. 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 13.1.4.1 of ANSI C63.10.

3.4 TEST Mode

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	Antenna
Peak Output Power	GFSK	1 Mbps	0/39/78	1
	8DPSK	3 Mbps		
Hopping Channel Bandwidth	GFSK	1 Mbps	0/39/78	1
	8DPSK	3 Mbps		
Hopping Channel Separation	GFSK	1 Mbps	38-39	1
	8DPSK	3 Mbps		
Number of Hopping Frequency	GFSK	1 Mbps	0-78	1
	8DPSK	3 Mbps		
Dwell Time	DH1/DH3/DH5	1 Mbps	39	1
	3DH1/3DH3/3DH5	3 Mbps		
Spurious Emission	GFSK	1 Mbps	0/39/78	1
	8DPSK	3 Mbps		
Band Edge Emissions	GFSK	1 Mbps	0/78	1
	8DPSK	3 Mbps		
Radiated Emissions Below 1GHz	GFSK	1 Mbps	39	1
Radiated Emissions Above 1GHz	GFSK	1 Mbps	0/39/78	1
	8DPSK	3 Mbps		
AC Power Conducted Emissions	CTX	-	-	-

Remark1: For radiated test cases below 1 GHz, the worst mode data rate channel 39 of 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests.

3.5 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(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
0.0900 - 0.1100	16.420 - 16.423	399.9 - 410.0	4.50 - 5.15
0.4950 - 0.505(1)	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960.0 - 1240	7.25 - 7.75
4.1250 - 4.1280	25.50 - 25.67	1300 - 1427	8.025 - 8.500
4.17725 - 4.17775	37.50 - 38.25	1435.0 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73.0 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.2150 - 6.2180	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108.00 - 121.94	1718.8 - 1722.2	13.25 - 13.40
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.50
8.2910 - 8.2940	149.90 - 150.05	2310 - 2390	15.35 - 16.20
8.3620 - 8.3660	156.52475 - 156.52525	2483.5 - 2500.0	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.1700	3260 - 3267	23.6 - 24.0
12.2900 - 12.2930	167.72 - 173.20	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345 - 3358	36.43 - 36.5 (2)
12.57675 - 12.57725	322.0 - 335.4	3600 - 4400	
13.3600 - 13.4100			

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

[2] Above 38.6

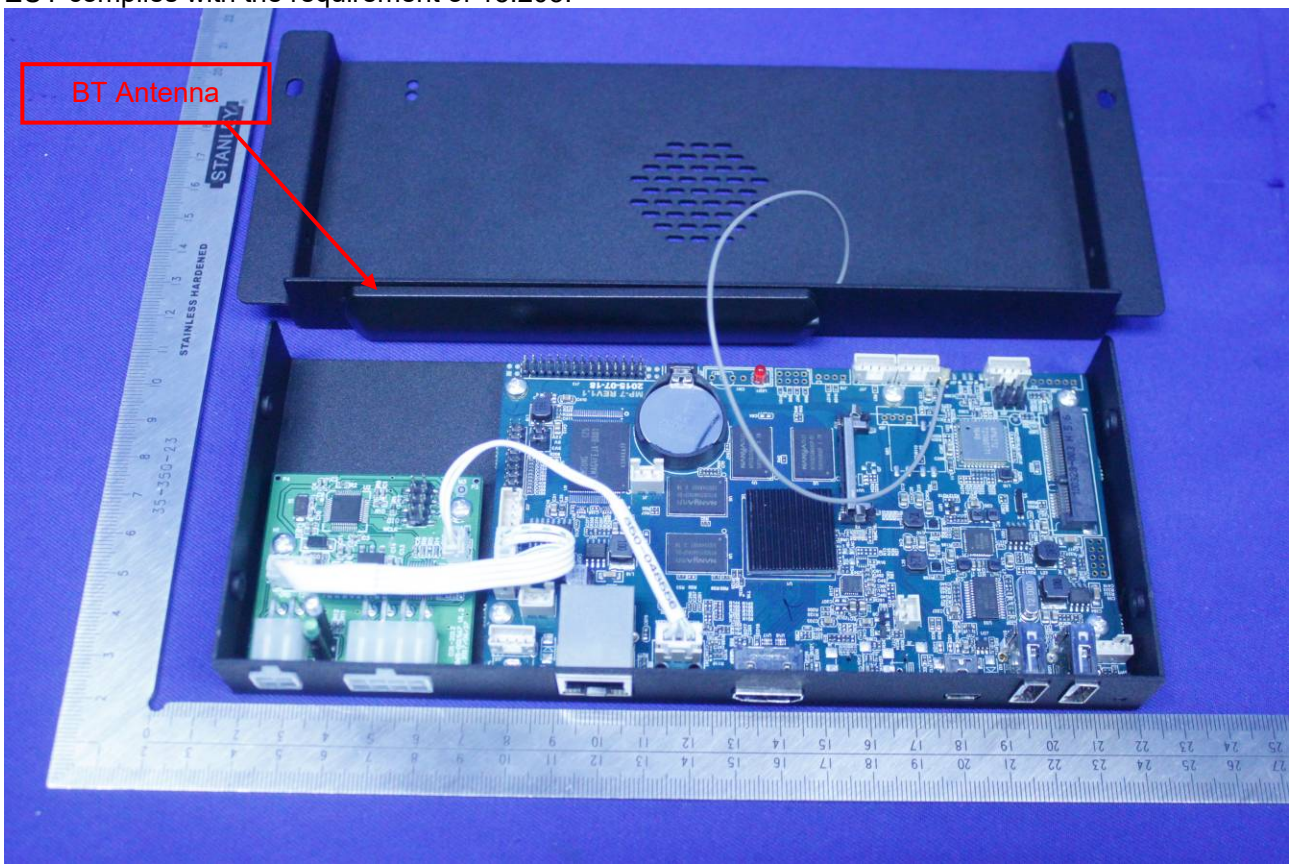
(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement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

3.6 Antenna Description

According to FCC 47 CFR 15.203

“an intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached or an antenna that
uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section”

As the photo below, the EUT use a unique coupling to the intentional radiator attached antenna, so the EUT complies with the requirement of 15.203.



4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards. facilities and accreditations

5. FACILITIES AND ACCREDITATIONS

5.1 FACILTIES

All measurement facilities used to collect the measurement data are located at
CCS China Kunshan Lab at 10#Weiye Rd, Innovation Park Eco. & Tec. Development Zone Kunshan city JiangSu, (215300), CHINA.

The sites are constructed in conformance with the requirements of ANSI C63.10 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

5.3 LABORATORY ACCREDITATIONS AND LISTING

FCC –Designation Number: CN1172.

Compliance Certification Services Inc. Kun shan Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Designation Number: CN1172.

5.4 TABLE OF ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

5.5 LIST OF MEASURING EQUIPMENT

Conducted Emissions Test Site					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Data**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY44020154	2017-9-4	2018-9-3
Spectrum Analyzer	RS	FSU26	200789	2017-7-20	2018-7-19
Power meter	Anritsu	ML2495A	1445010	2017-4-26	2018-4-25
Power sensor	Anritsu	MA2411B	1339220	2017-4-26	2018-4-25
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	N.C.R	N.C.R
DC Power Supply	AGILENT	E3632A	MY50340053	N.C.R	N.C.R
Temp. / Humidity Gauge	Anymetre	TH603	CCS007	2016-11-1	2017-10-31
Test Software			EZ-EMC		

977 Chamber					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Data**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY44020154	2017-9-4	2018-9-3
Spectrum Analyzer	RS	FSU26	200789	2017-7-20	2018-7-19
EMI Test Receiver	R&S	ESCI	101378	2017-1-5	2018-1-4
Pre-Amplfier	MITEQ	AMF-6F-260400-40-8P	1037496	2016-11-15	2017-11-14
Amplifier	MITEQ	JS41-00101800-32-10P	1675713	2017-7-20	2018-7-19
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	9170-515	2017-3-6	2018-3-5
Bilog Antenna	Sunol	JB1	A062604	2017-5-27	2018-5-26
Bilog Antenna	Sunol	JB1	A110204-1	2017-5-27	2018-5-26
Loop Antenna	Hengweiyi	39501C	2014012	2017-1-5	2018-1-4
Horn-antenna	SCHWARZBECK	9120D	D:266	2017-2-28	2018-2-27
Horn-antenna	SCHWARZBECK	9120D	D:267	2016-11-10	2017-11-9
Turn Table	CT	CT123	4165	N.C.R	N.C.R
Antenna Tower	CT	CTERG23	3256	N.C.R	N.C.R
Controller	CT	CT1OO	95637	N.C.R	N.C.R
Test Software			EZ-EMC		

Conducted Emission					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Data**	**Calibration Due**
EMI TEST RECEIVER	R&S	ESCI	100781	2017-2-28	2018-2-27
V (V-LISN)	SCHWARZBECK	NNLK 8129	8129-143	2016-11-1	2017-10-31
TWO-LINE V-NETWORK	R&S	ENV216	101604	2016-11-1	2017-10-31
Pulse LIMITER	R&S	ESH3-Z2	100524	2017-1-5	2018-1-4
Test Software			EZ-EMC		

Remark: *Each piece of equipment is scheduled for calibration once a year.*

5.6 SETUP CONFIGURATION

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

5.7 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6. FCC PART 15.247 REQUIREMENTS

6.1 PEAK POWER

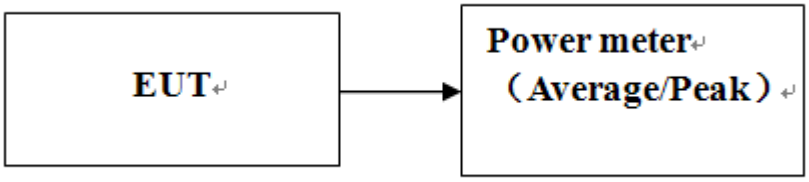
Limit

The maximum peak output power of the intentional radiator shall not exceed the following:

1. 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.
2. 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: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.
3. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
4. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Remark: *Each piece of equipment is scheduled for calibration once a year.*

Test Configuration



Test Procedure

1. The testing follows ANSI63.10-2013 clause 7.8.5.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

Test Results

No non-compliance noted

Test RESULTS

1M GFSK Modulation mode

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW)	Result
Low	2402	9.36	8.63	125	PASS
Mid	2441	9.51	8.93		PASS
High	2480	9.44	8.79		PASS

Channel	Frequency (MHz)	Average Output Power (dBm)
Low	2402	8.60
Mid	2441	8.67
High	2480	8.52

3M 8-DPSK Modulation mode

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW)	Result
Low	2402	7.80	6.03	125	PASS
Mid	2441	7.58	5.73		PASS
High	2480	7.43	5.53		PASS

Channel	Frequency (MHz)	Average Output Power (dBm)
Low	2402	5.27
Mid	2441	5.06
High	2480	5.03

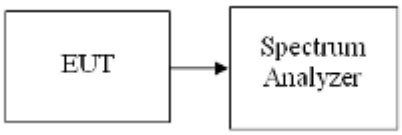
Note:Duty factor has been offseted with cableloss

6.2 20DB BANDWIDTH

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.

Test Configuration



Test Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 30kHz, VBW = 300kHz, Span = 3MHz, Sweep = auto.
4. Max hold, measure and record the result of 20 dB Bandwidth in the test report.

Test Results of Bandwidth

No non-compliance noted

Operation Mode:	1 Mbps	Test Date:	2017-9-6
Temperature:	24°C	Tested by:	James.Yan

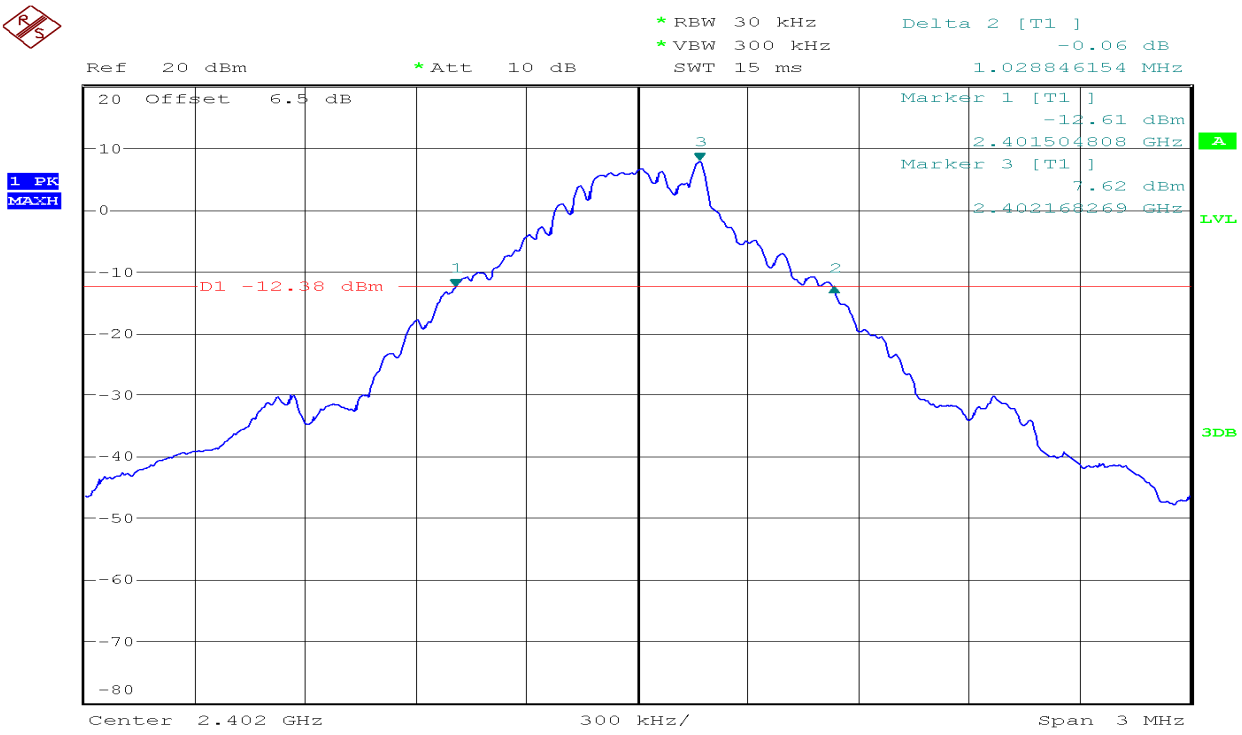
Channel	Frequency (MHz)	20dB Bandwidth (B) (MHz)
00	2402	1.029
39	2441	1.029
78	2480	1.029

Operation Mode:	3 Mbps	Test Date:	2017-9-6
Temperature:	24°C	Tested by:	James.Yan

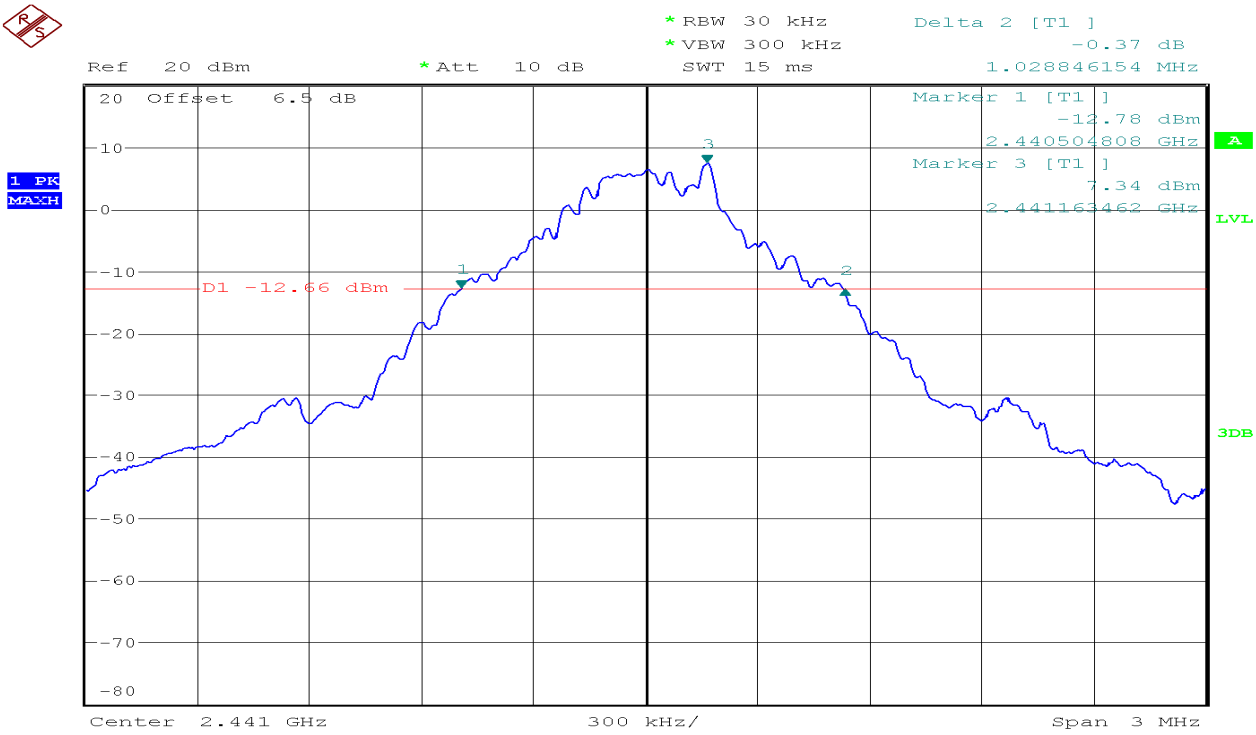
Channel	Frequency (MHz)	20dB Bandwidth (B) (MHz)
00	2402	1.327
39	2441	1.332
78	2480	1.327

Test Plot

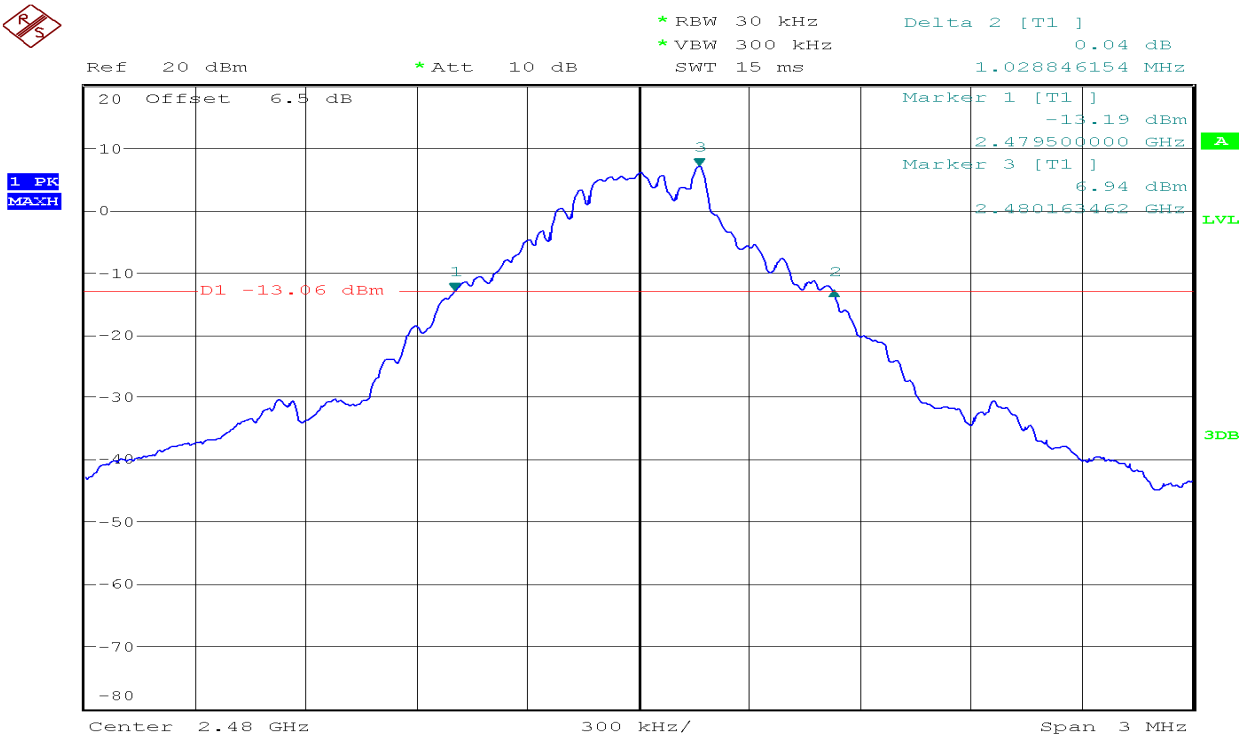
1M Channel 00



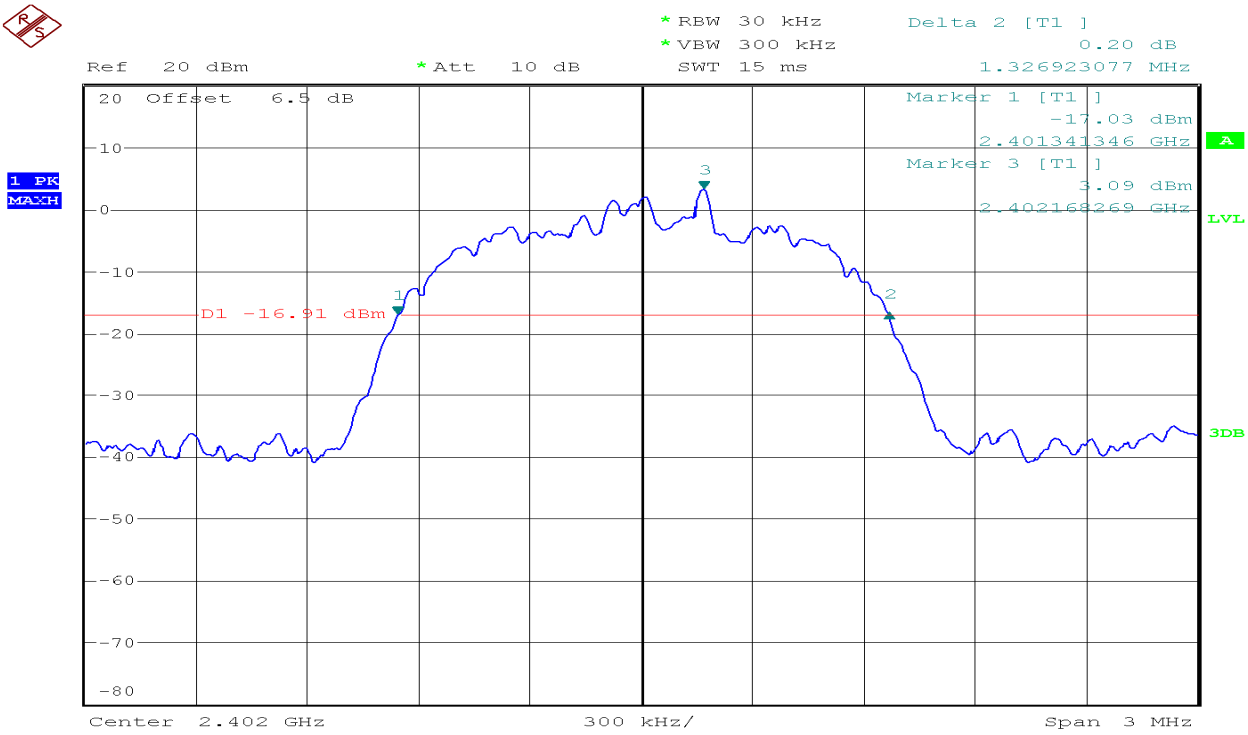
1M Channel 39



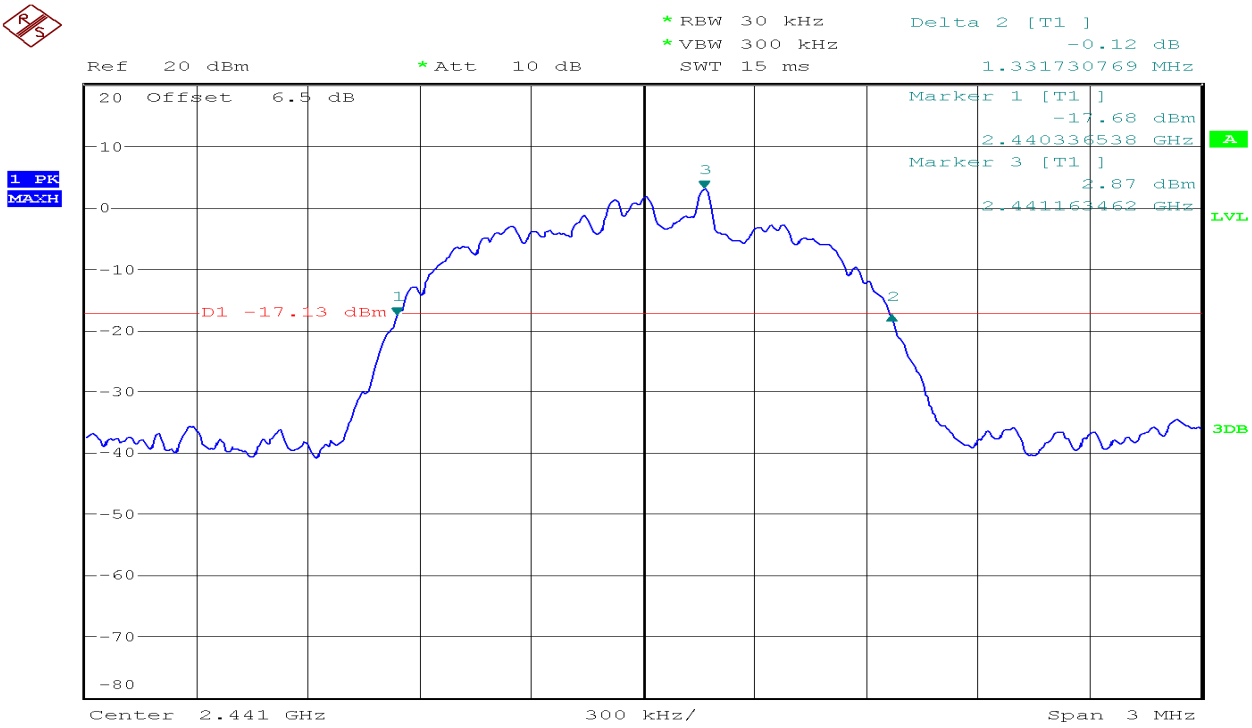
1M Channel 78



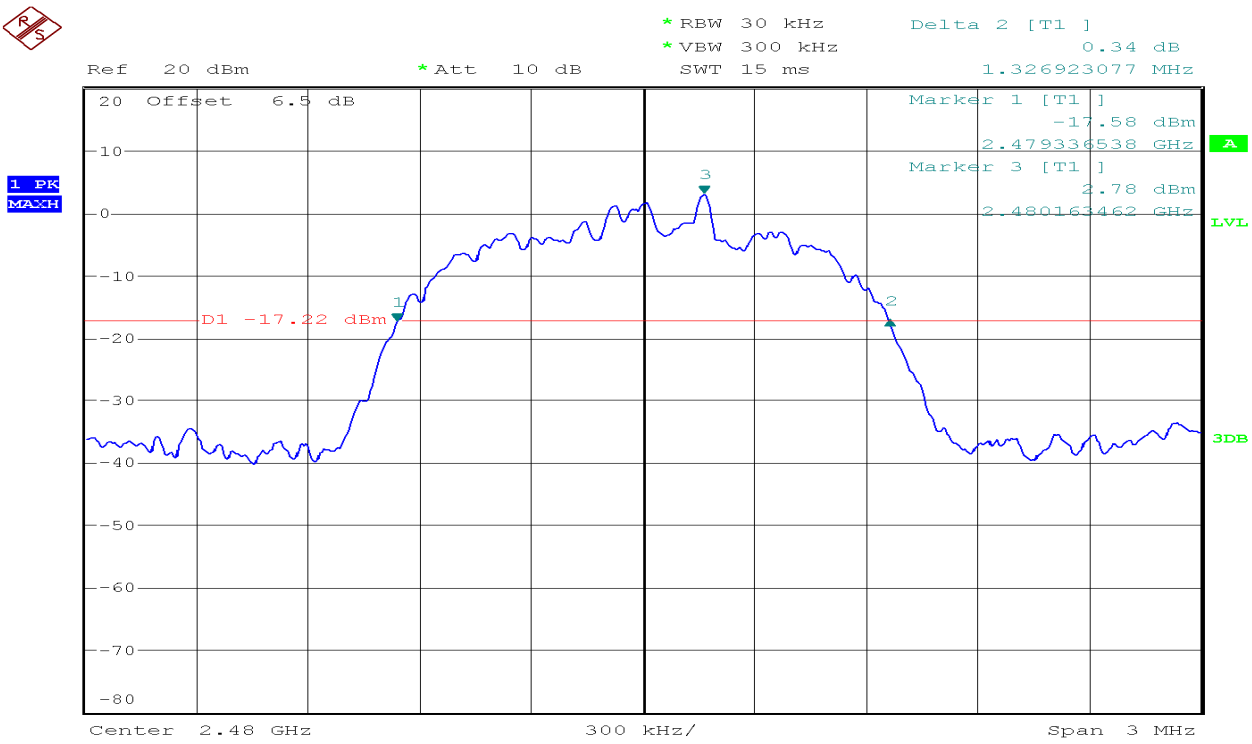
3M Channel 00



3M Channel 39



3M Channel 78

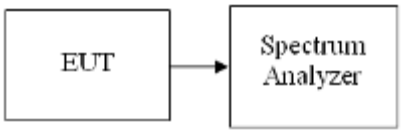


6.3 HOPPING CHANNEL SEPARATION

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.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as RBW = 30kHz, VBW = 100kHz, Span = 3MHz, Sweep = auto.
5. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

TEST RESULTS

No non-compliance noted

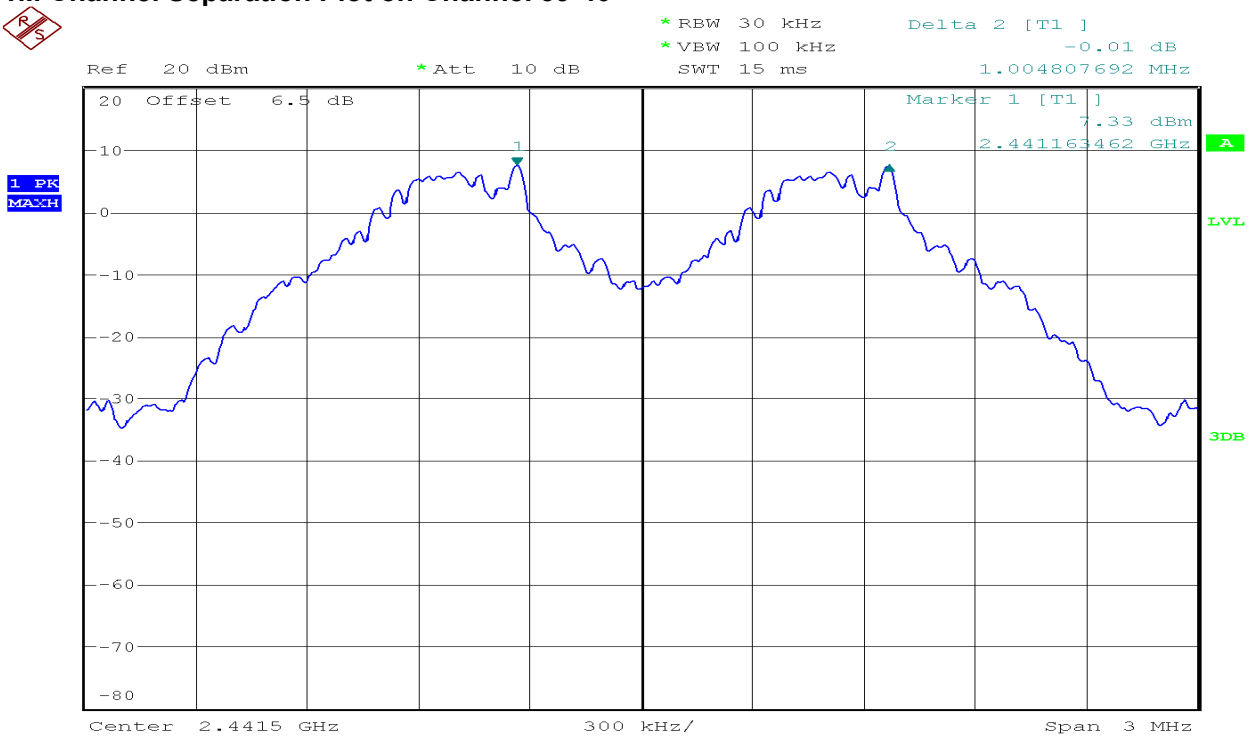
Operation Mode:	1 Mbps	Test Date:	2017-9-6
Temperature:	24°C	Tested by:	James.Yan

Channel	Frequency (MHz)	Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Result
39~40	2441~2442	1.005	0.686	Pass

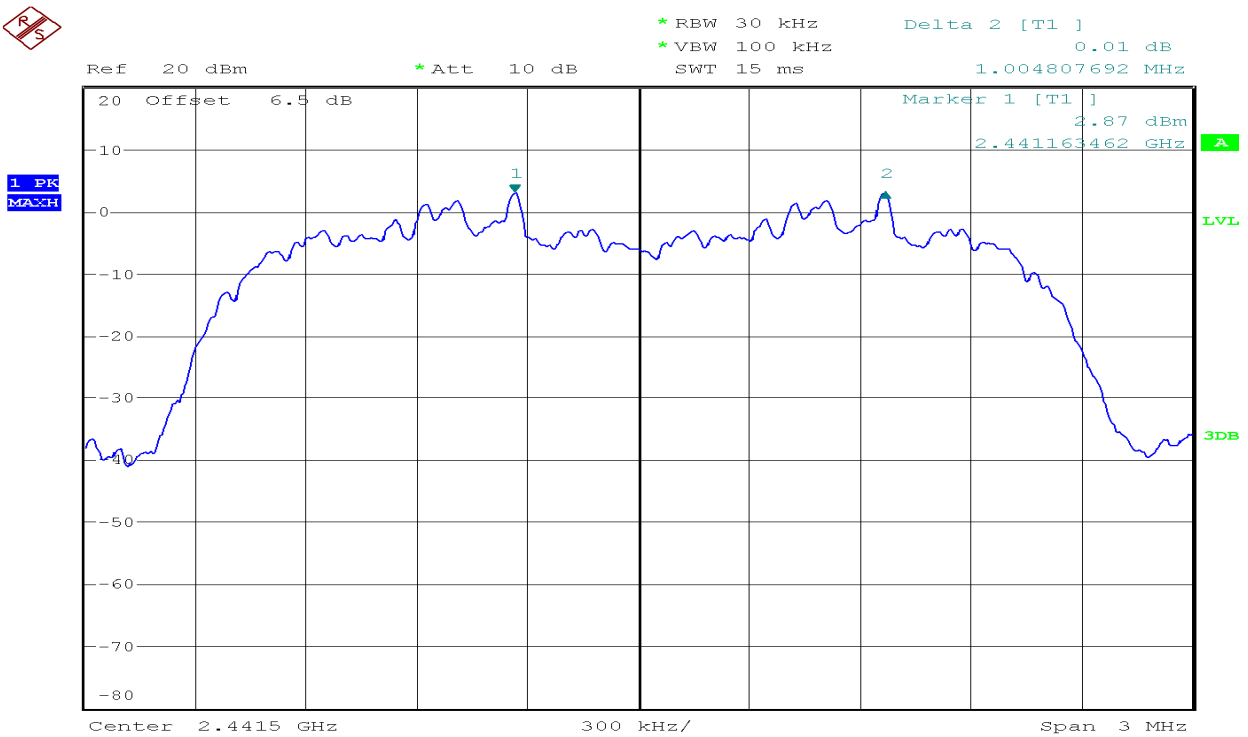
Operation Mode:	3 Mbps	Test Date:	2017-9-6
Temperature:	24°C	Tested by:	James.Yan

Channel	Frequency (MHz)	Separation (MHz)	(2/3 of 20dB BW) Limits (MHz)	Result
39~40	2441~2442	1.005	0.888	Pass

1M Channel Separation Plot on Channel 39-40



3M Channel Separation Plot on Channel 39-40

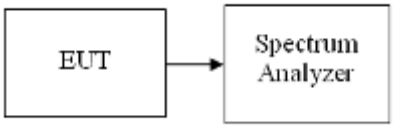


6.4 NUMBER OF HOPPING FREQUENCY

LIMIT

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

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz, Sweep = auto and Start=2441.5MHz, Stop = 2483.5MHz, Sweep = auto.
4. Set the spectrum analyzer as RBW, VBW=1MHz.
5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

Test Data

Operation Mode:	1 Mbps	Test Date:	2017-9-6
Temperature:	24°C	Tested by:	James.Yan

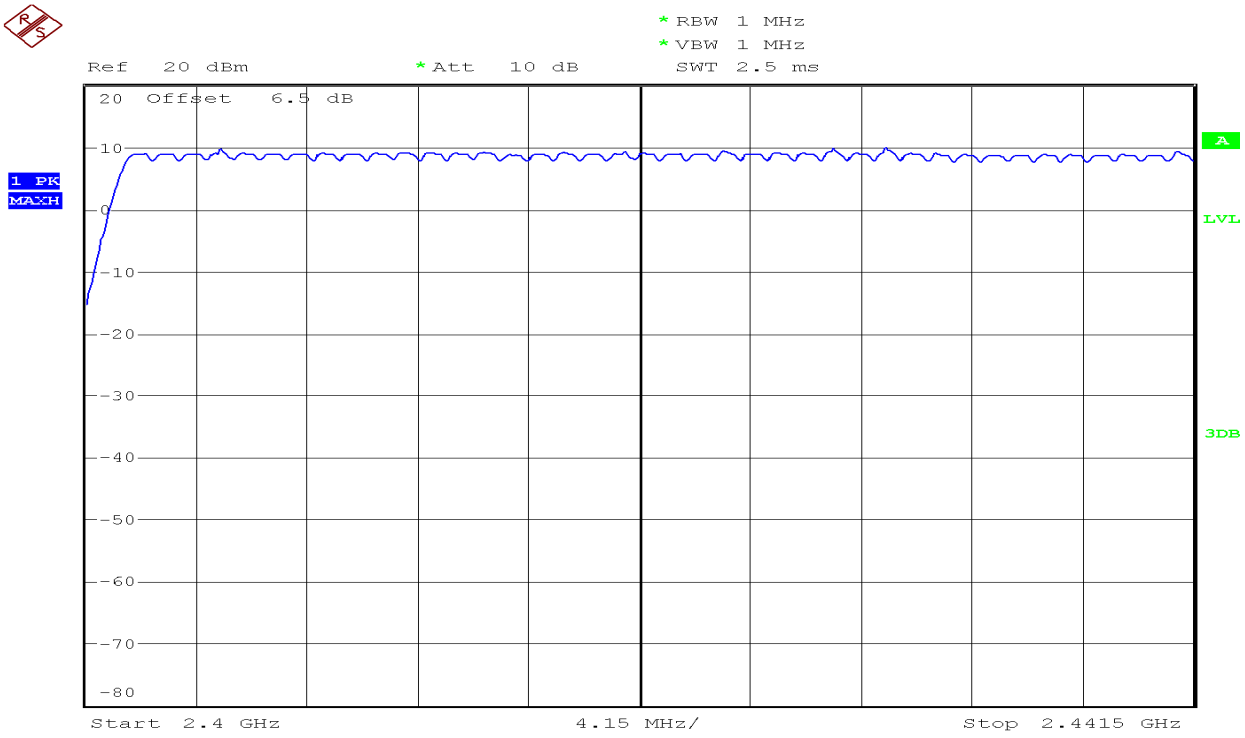
Result (No. of CH)	Limit (No. of CH)	Result
79	>15	PASS

Operation Mode:	3 Mbps	Test Date:	2017-9-6
Temperature:	24°C	Tested by:	James.Yan

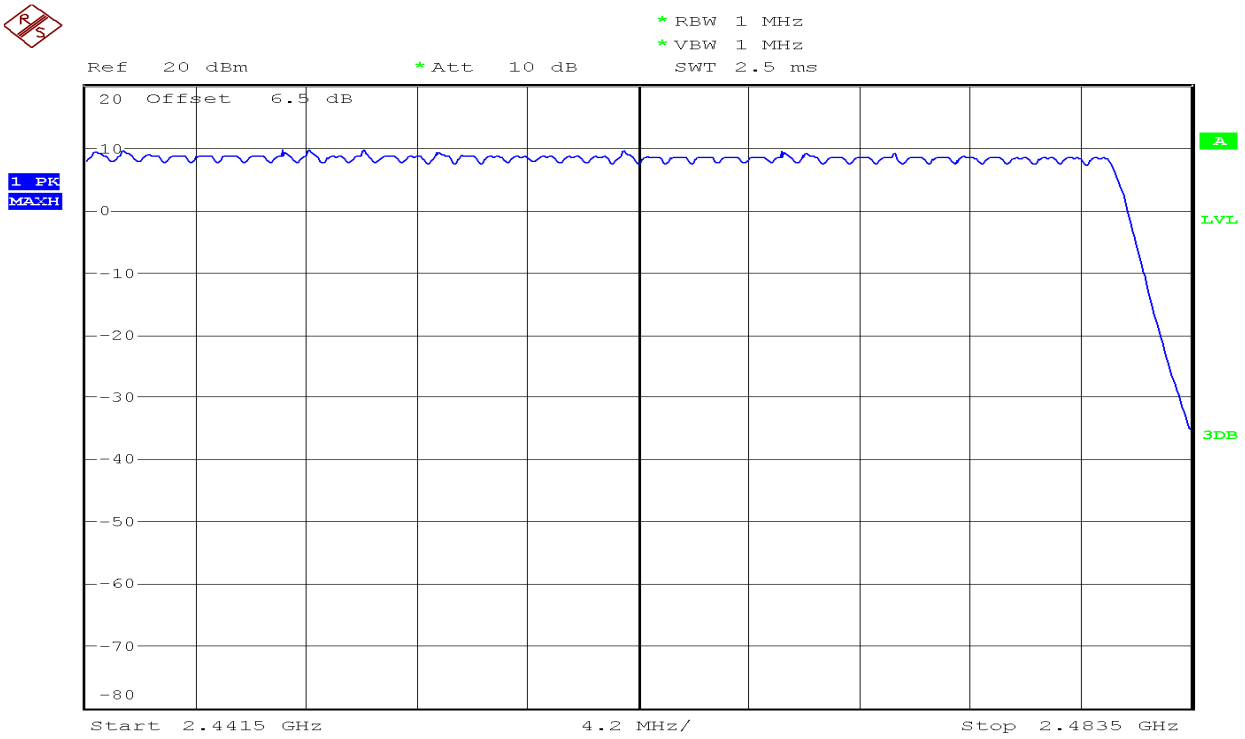
Result (No. of CH)	Limit (No. of CH)	Result
79	>15	PASS

Test Plot:1M

Channel Number 2.4 GHz – 2.4415 GHz

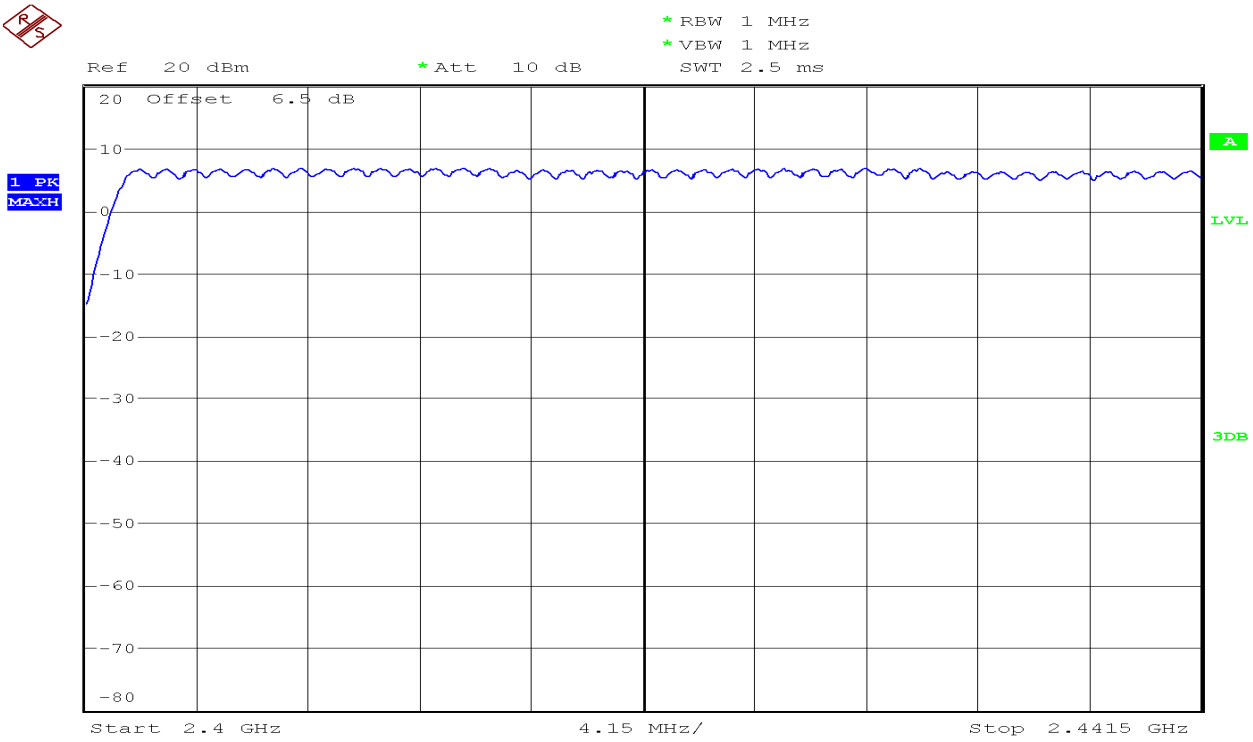


Channel Number 2.4415 GHz – 2.4835 GHz

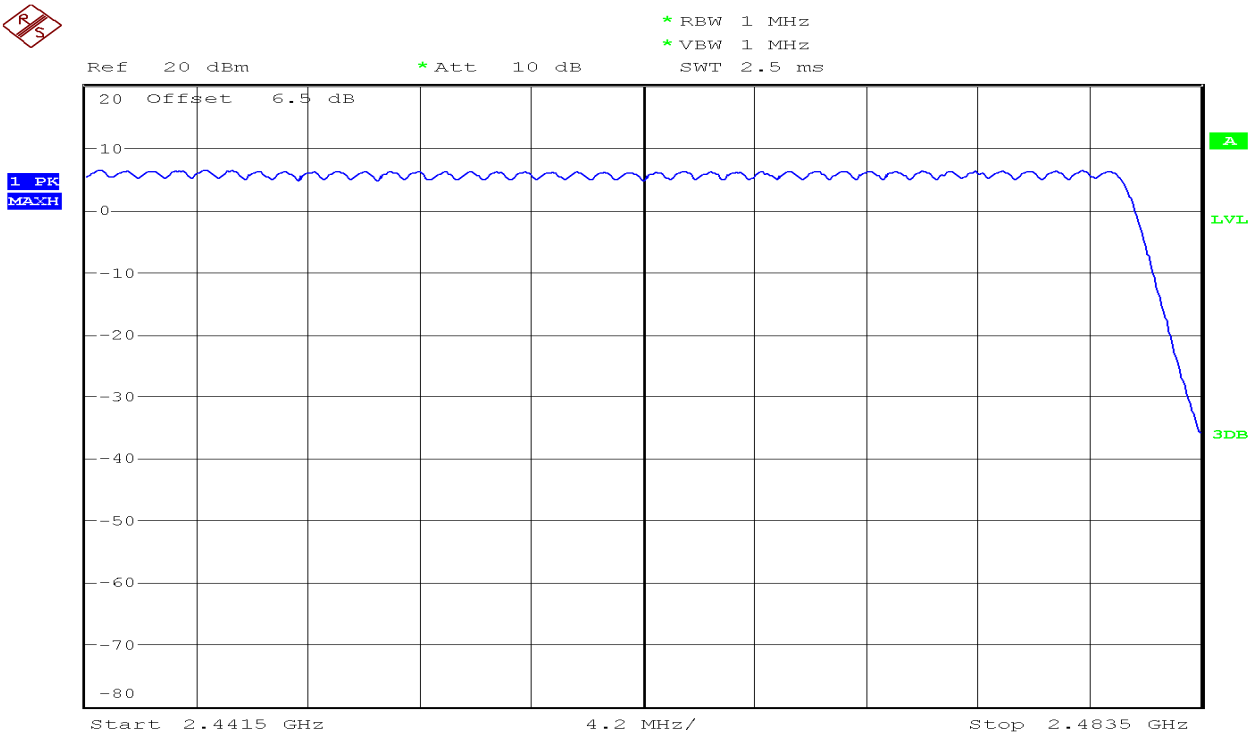


Test Plot:3M

Channel Number 2.4 GHz – 2.4415 GHz



Channel Number 2.4415 GHz – 2.4835 GHz

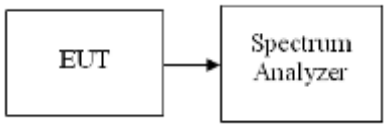


6.5 TIME OF OCCUPANCY (DWELL TIME)

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 channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data

1M

DH 1

0.421*(1600/2)/79 * 31.6 = 134.72(ms)

Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
0.421	134.72	31.60	400	PASS

DH 3

1.675* (1600/4)/79 * 31.6 = 268(ms)

Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
1.675	268	31.60	400	PASS

DH 5

2.917*(1600/6)/79 * 31.6 =311.15(ms)

Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
2.917	311.15	31.60	400	PASS

3M

DH 1

0.429*(1600/2)/79 * 31.6 = 137.28(ms)

Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
0.429	137.28	31.60	400	PASS

DH 3

1.675*(1600/4)/79 * 31.6 = 268(ms)

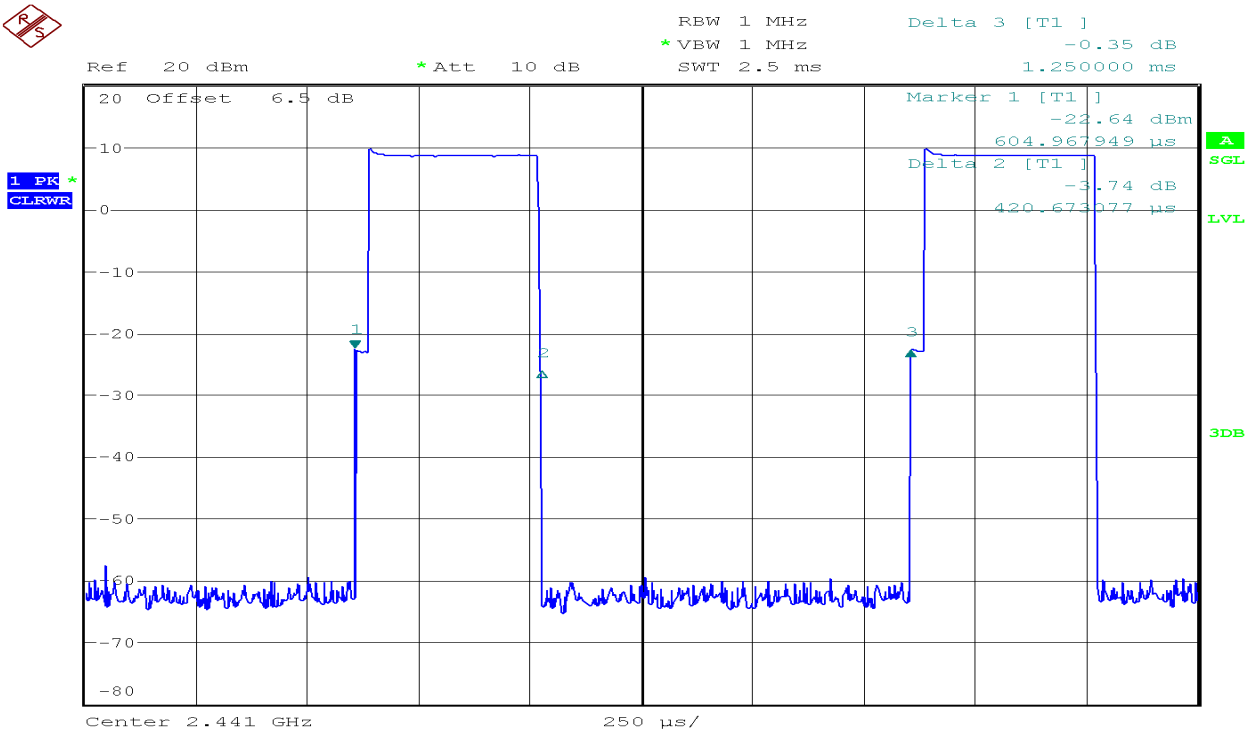
Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
1.675	268	31.60	400	PASS

DH 5

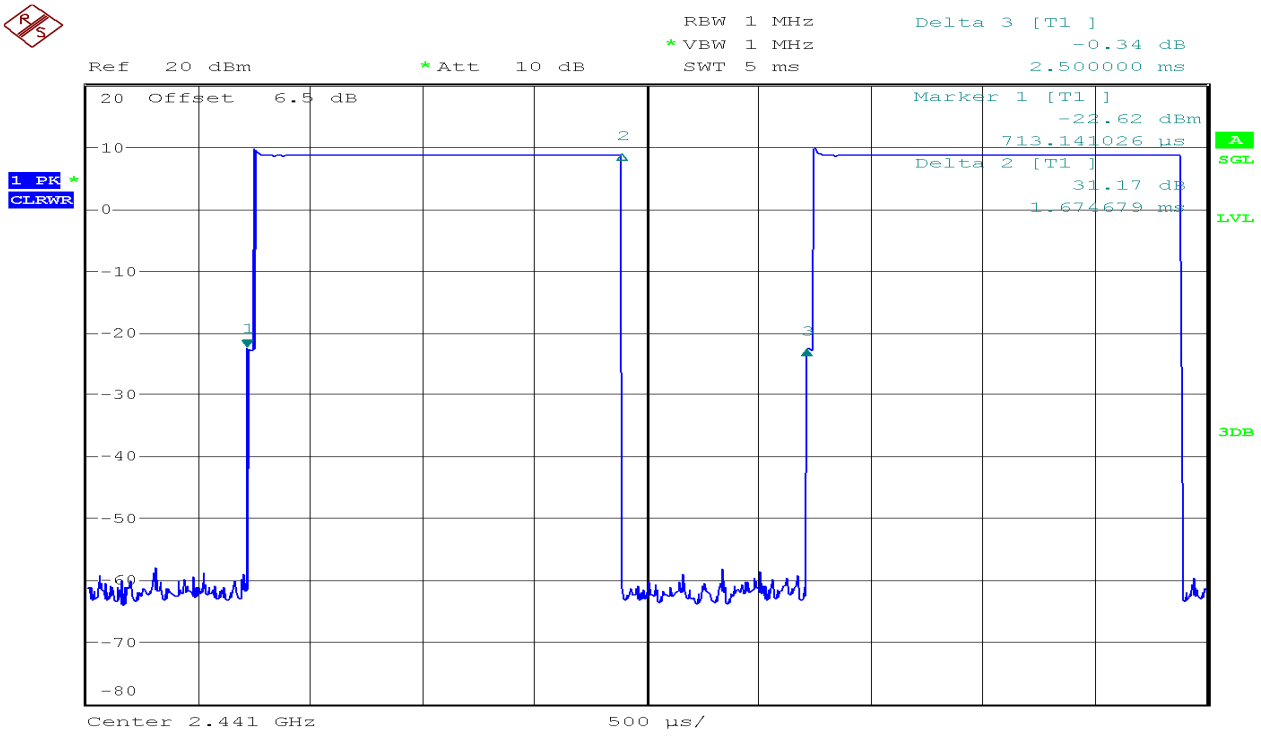
2.933*(1600/6)/79 * 31.6 =312.85(ms)

Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
2.933	312.85	31.60	400	PASS

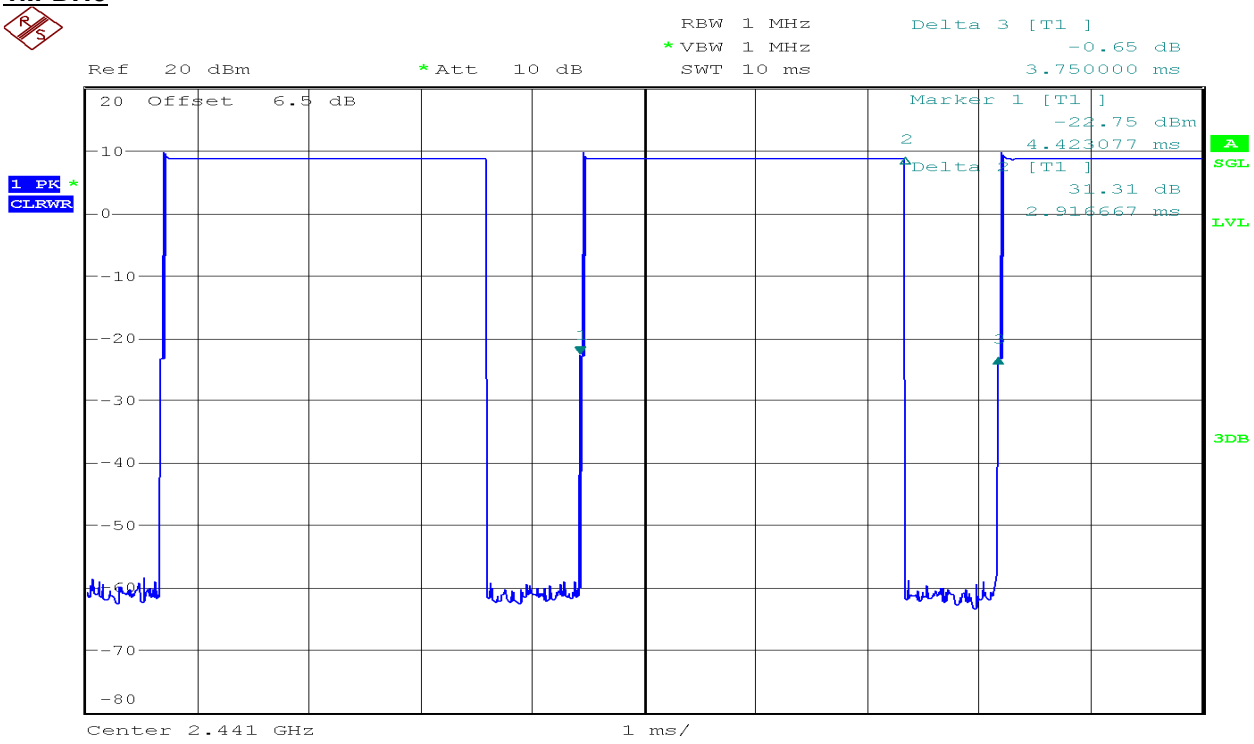
1M-DH1



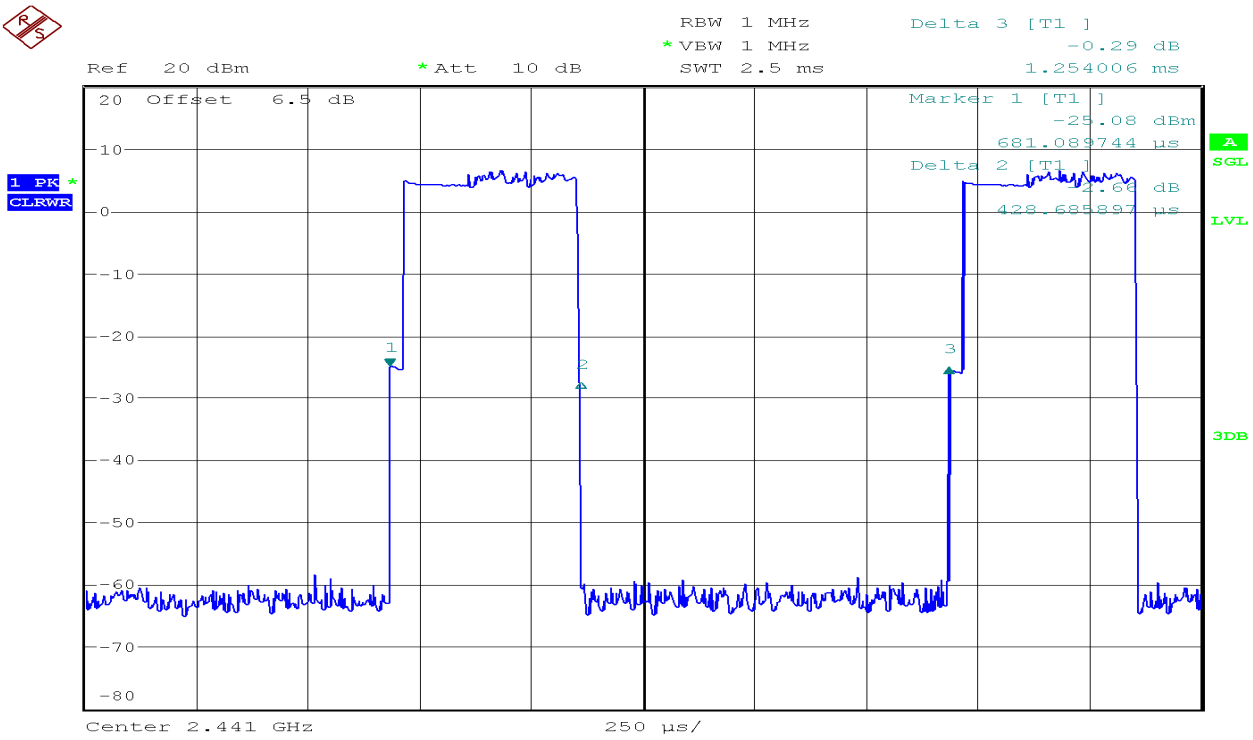
1M-DH3



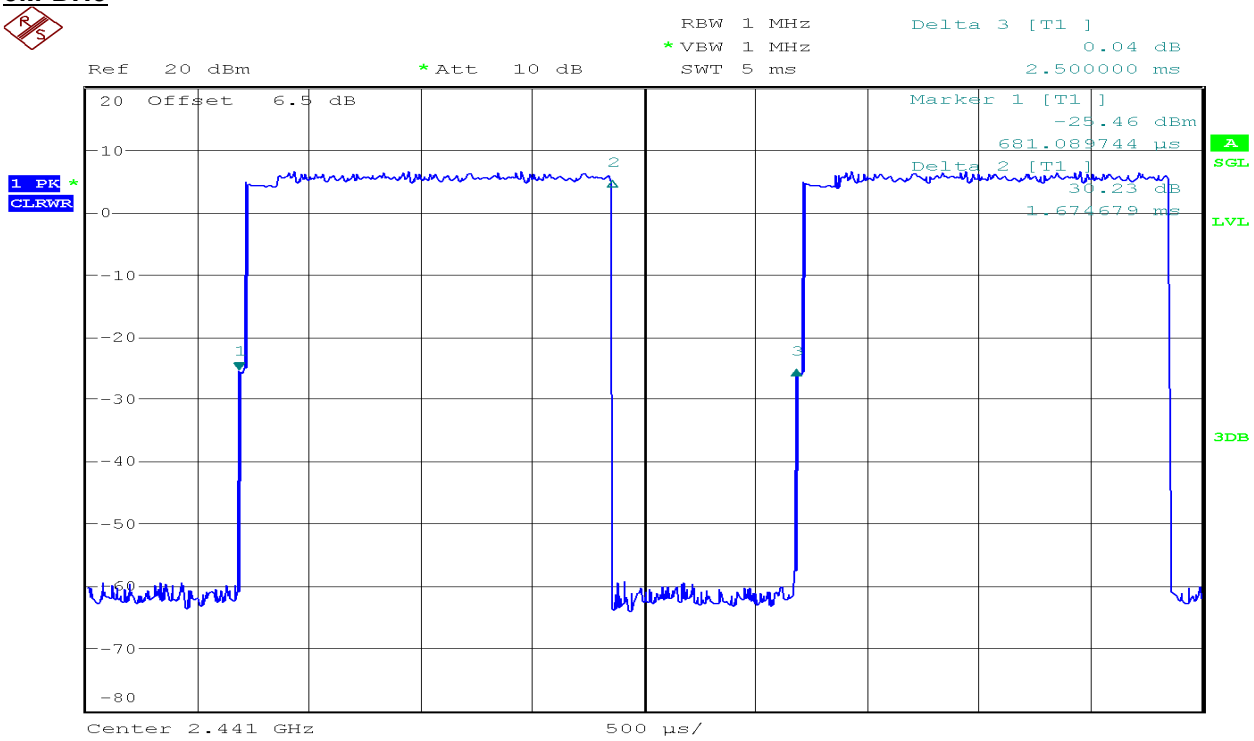
1M-DH5



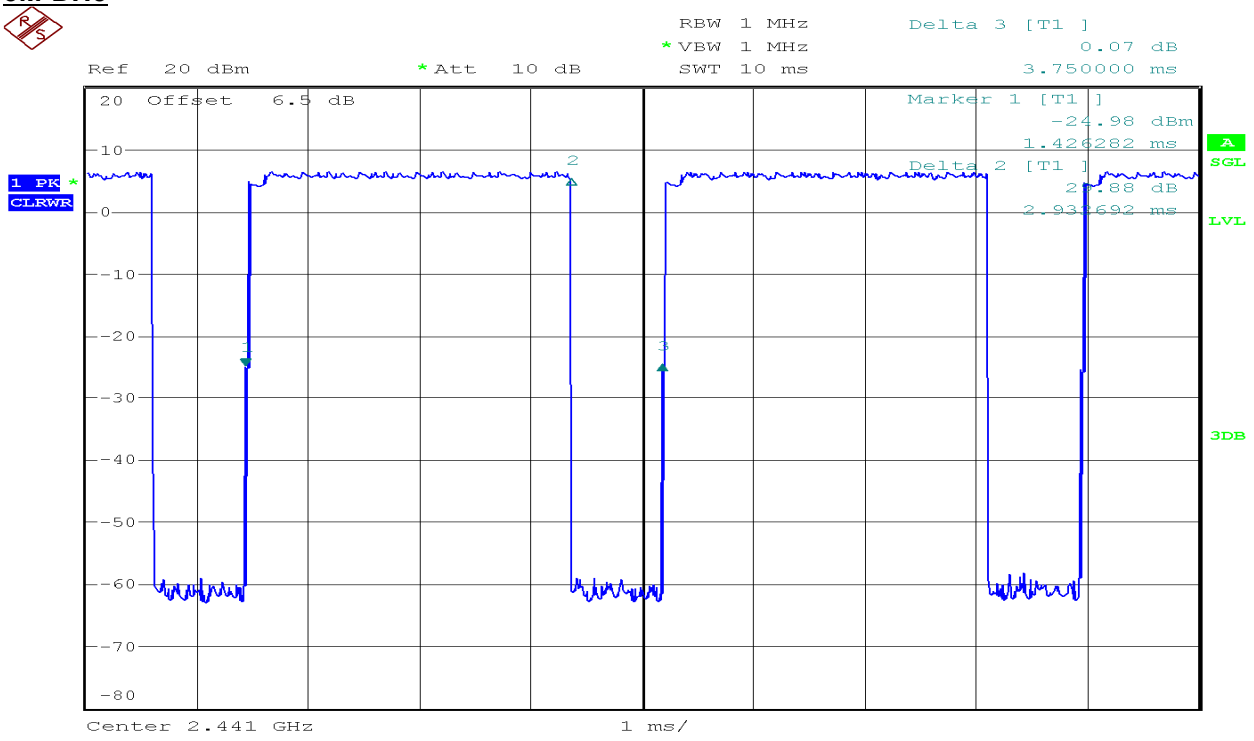
3M-DH1



3M-DH3



3M-DH5

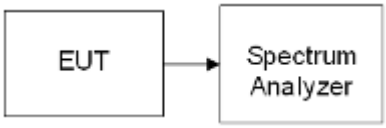


6.6 Conducted Band Edges Measurement

LIMIT

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

Test Configuration



TEST PROCEDURE

1. The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of FCC Public Notice DA 00-705 Measurement Guidelines.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100kHz (≧1% span=10MHz), VBW = 300kHz (≧3RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2. and 3.
5. Measure and record the results in the test report.

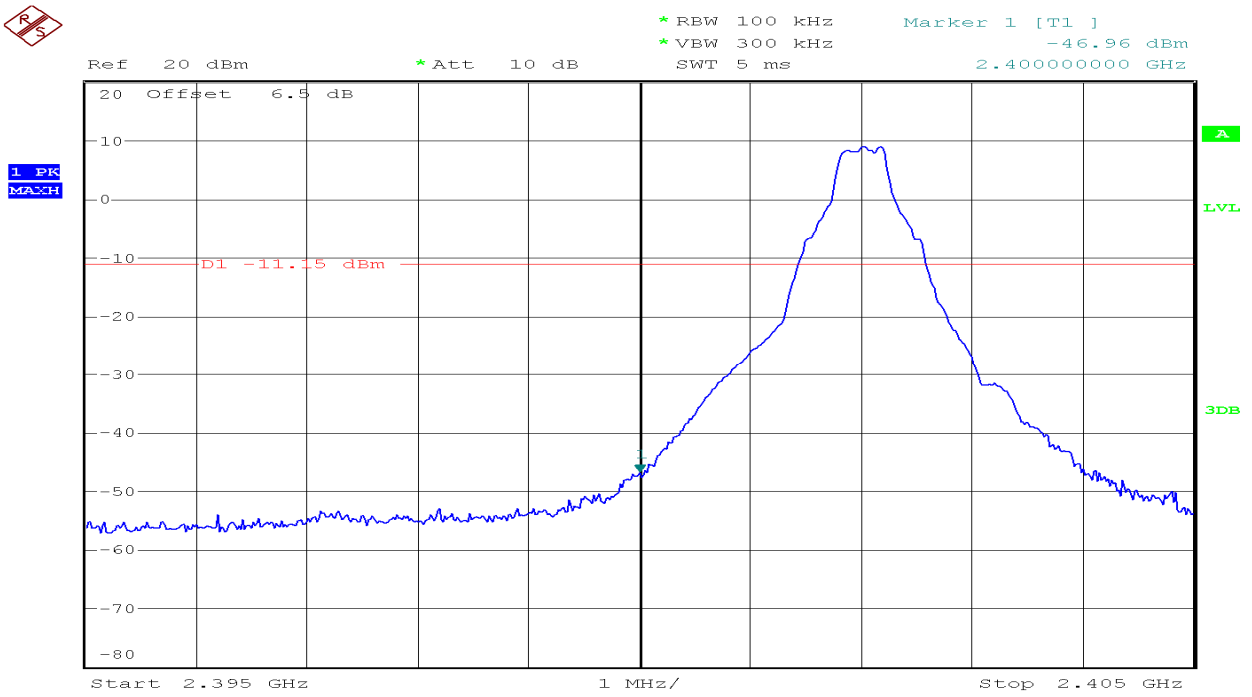
TEST RESULTS

No non-compliance noted

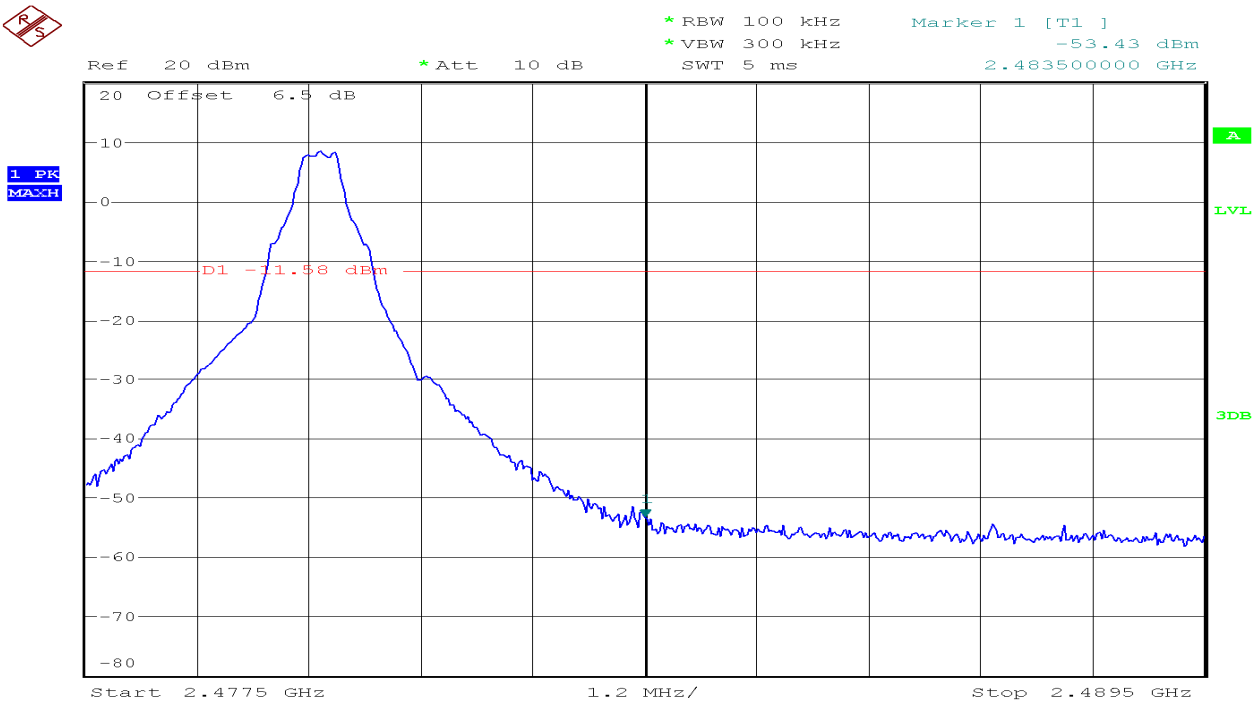
Test Result of Conducted Band Edges

Operation Mode:	1 Mbps	Test Date:	2017-9-6
Test Channel:	00 and 78	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C

Low Band Edge Plot on Channel 00

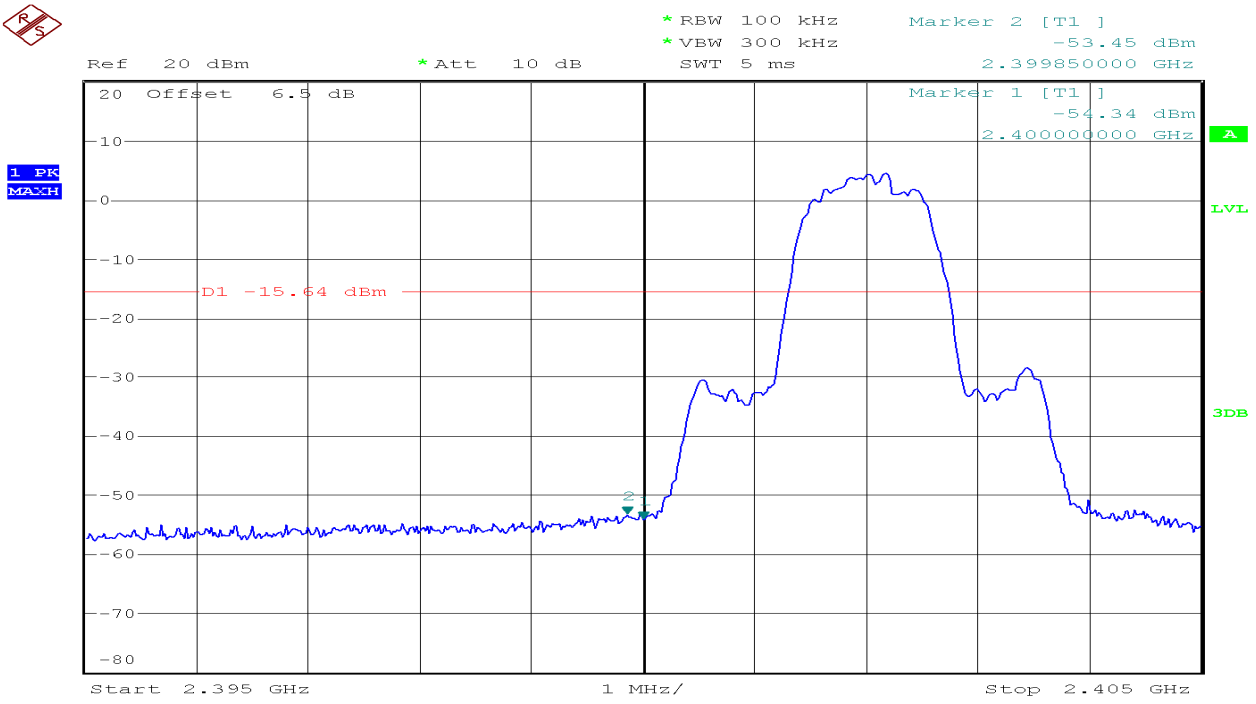


High Band Edge Plot on Channel 78

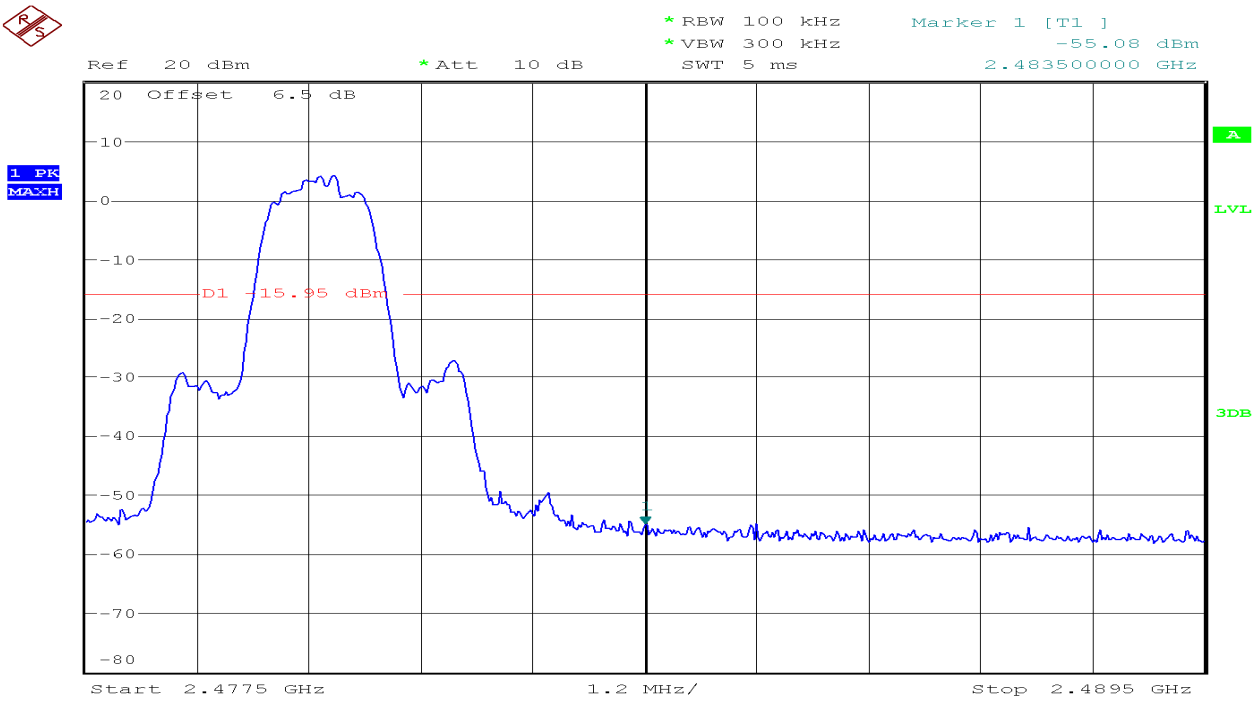


Operation Mode:	3 Mbps	Test Date:	2017-9-6
Test Channel:	00 and 78	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C

Low Band Edge Plot on Channel 00



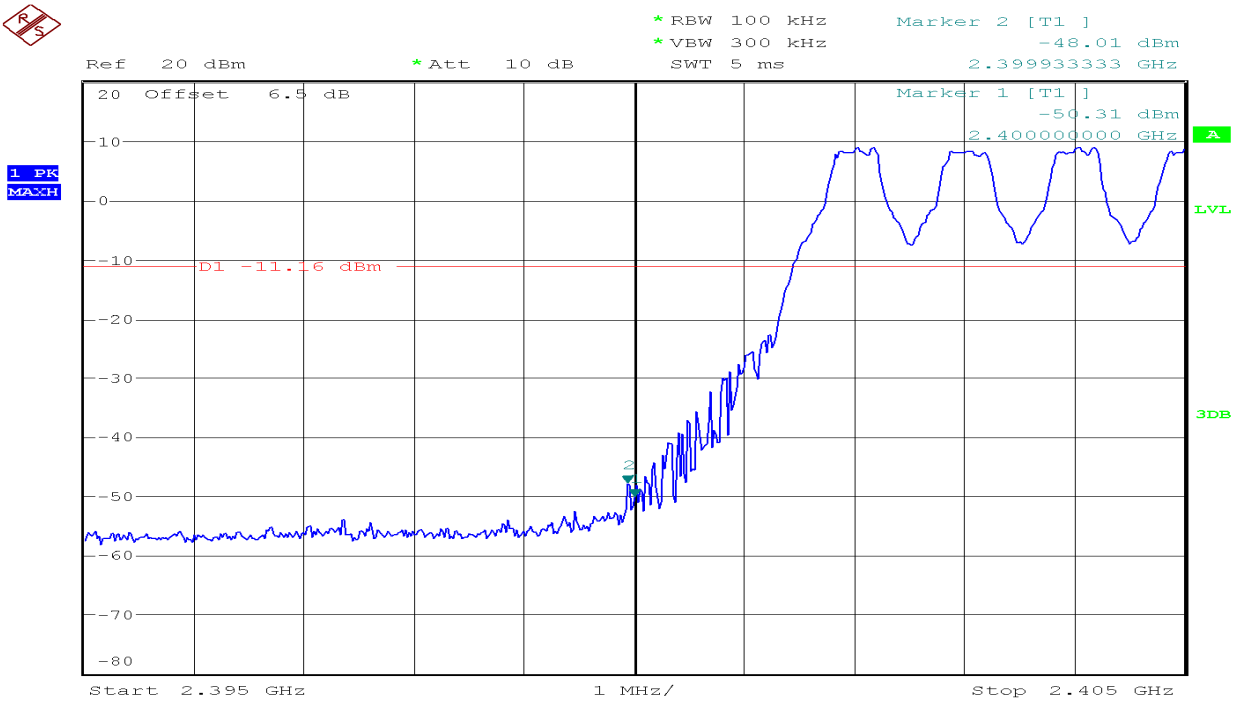
High Band Edge Plot on Channel 78



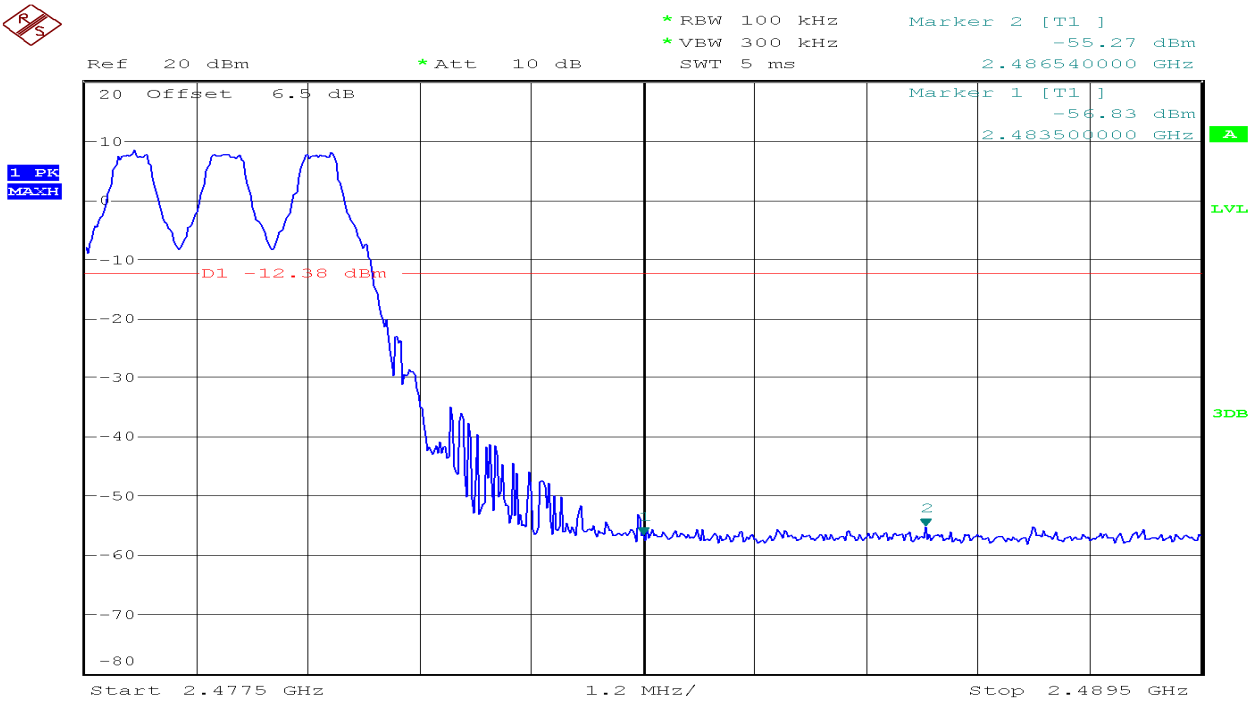
Test Result of Conducted Hopping Mode Band Edges

Operation Mode:	1 Mbps	Test Date:	2017-9-6
Humidity:	52 % RH	Temperature:	24°C

1Mbps Hopping Mode Low Band Edge Plot

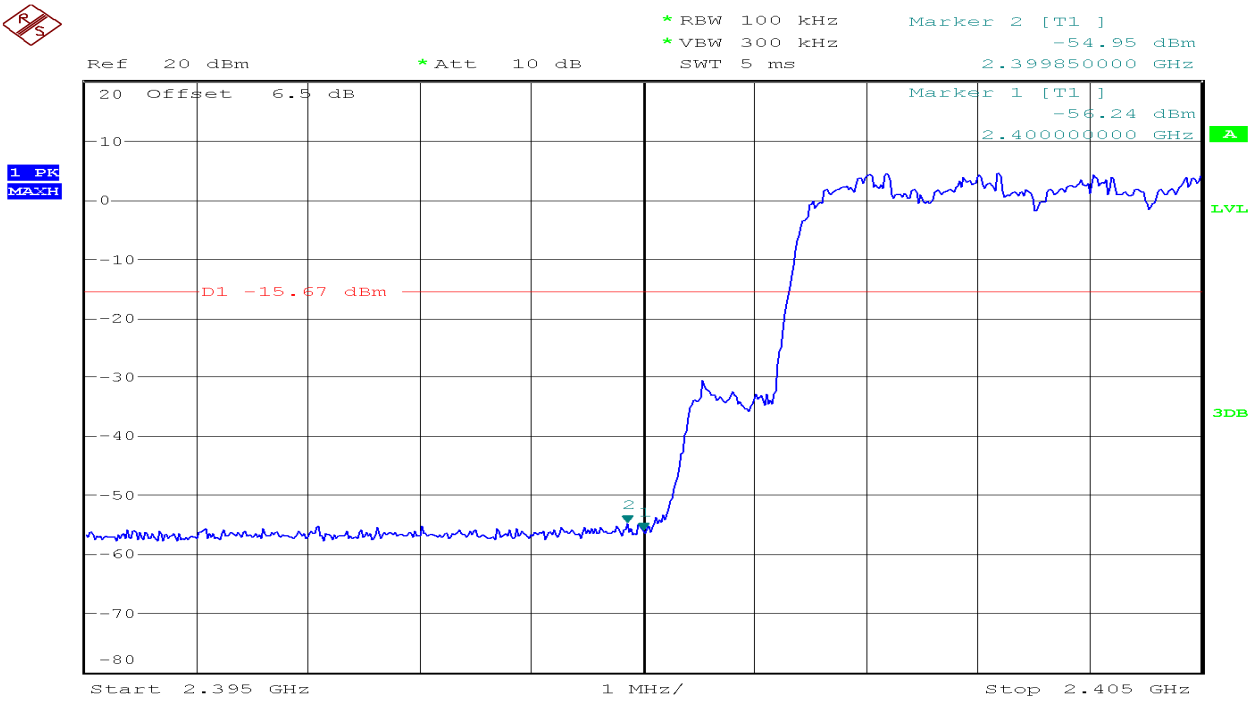


1Mbps Hopping Mode High Band Edge Plot

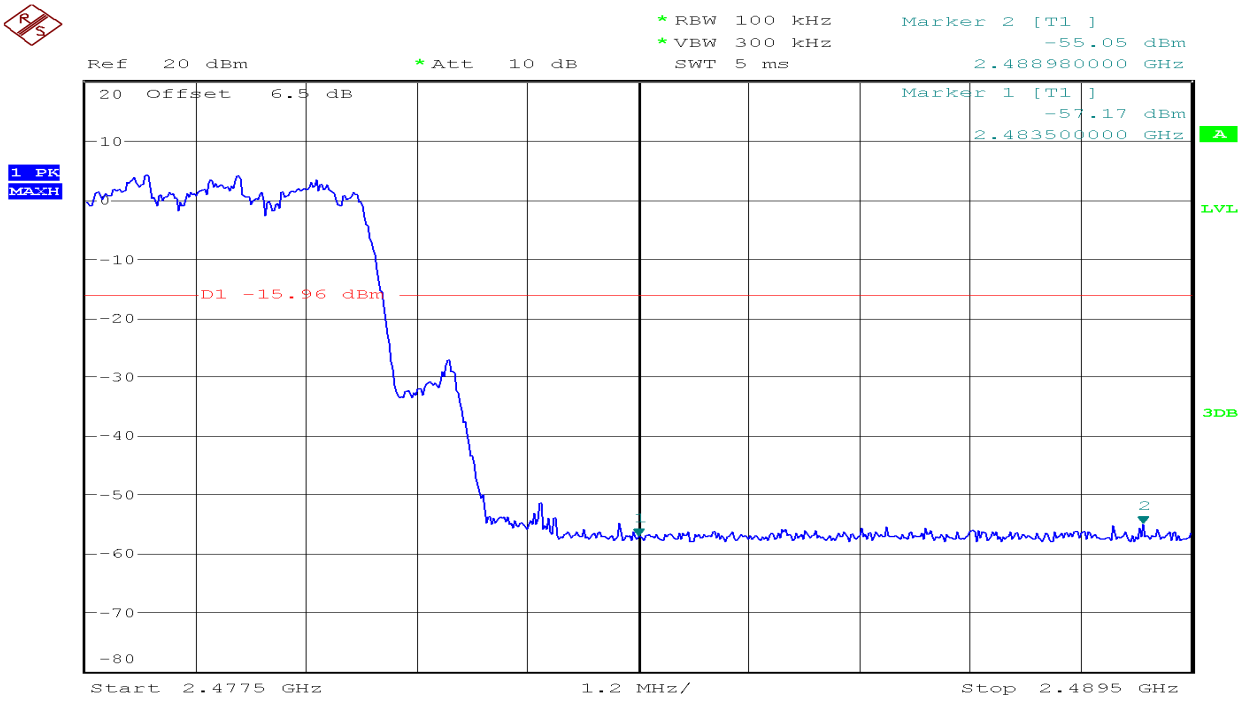


Operation Mode:	3 Mbps	Test Date:	2017-9-6
Humidity:	52 % RH	Temperature:	24°C

3Mbps Hopping Mode Low Band Edge Plot



3Mbps Hopping Mode High Band Edge Plot

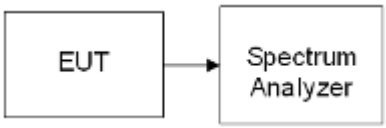


6.7 Conducted Spurious Emission Measurement

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Configuration



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.

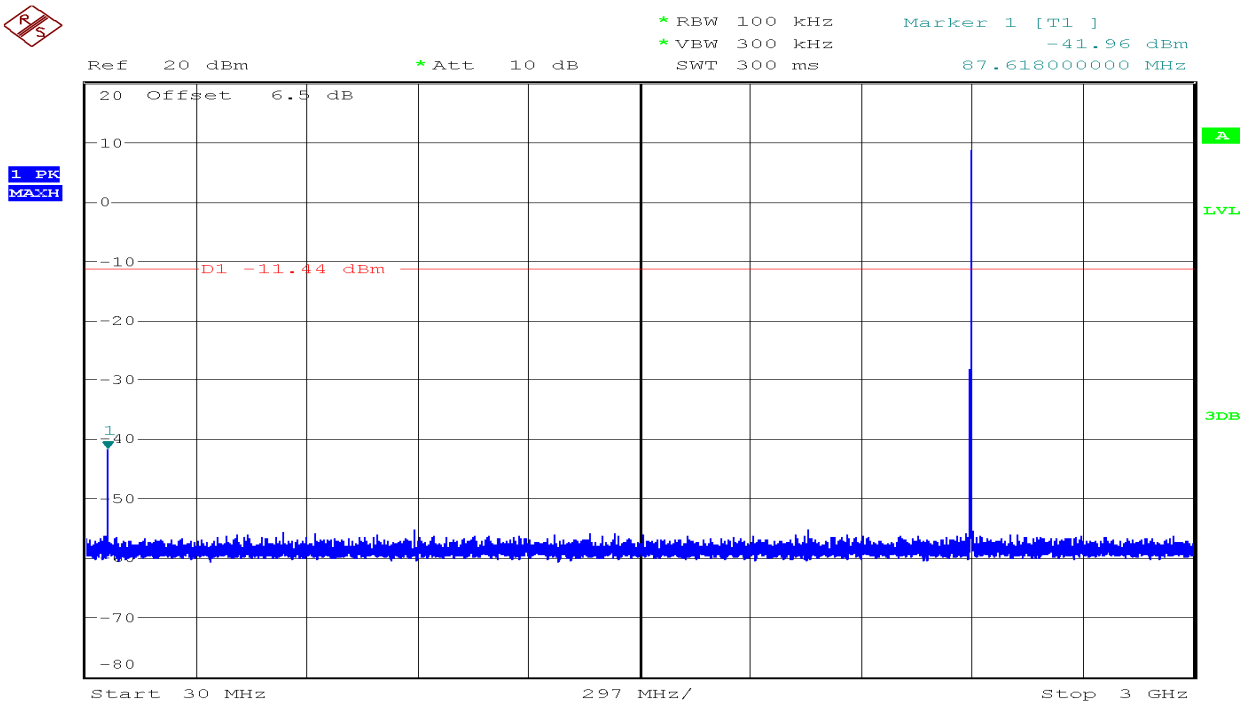
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

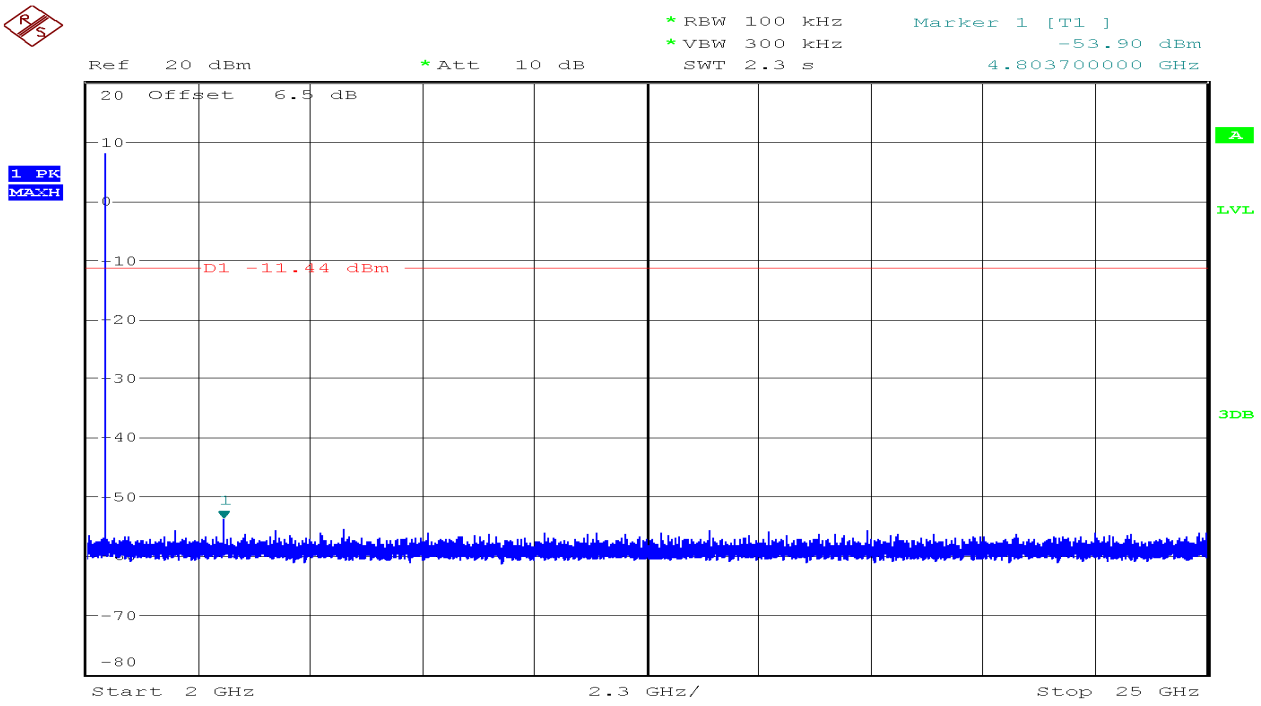
Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

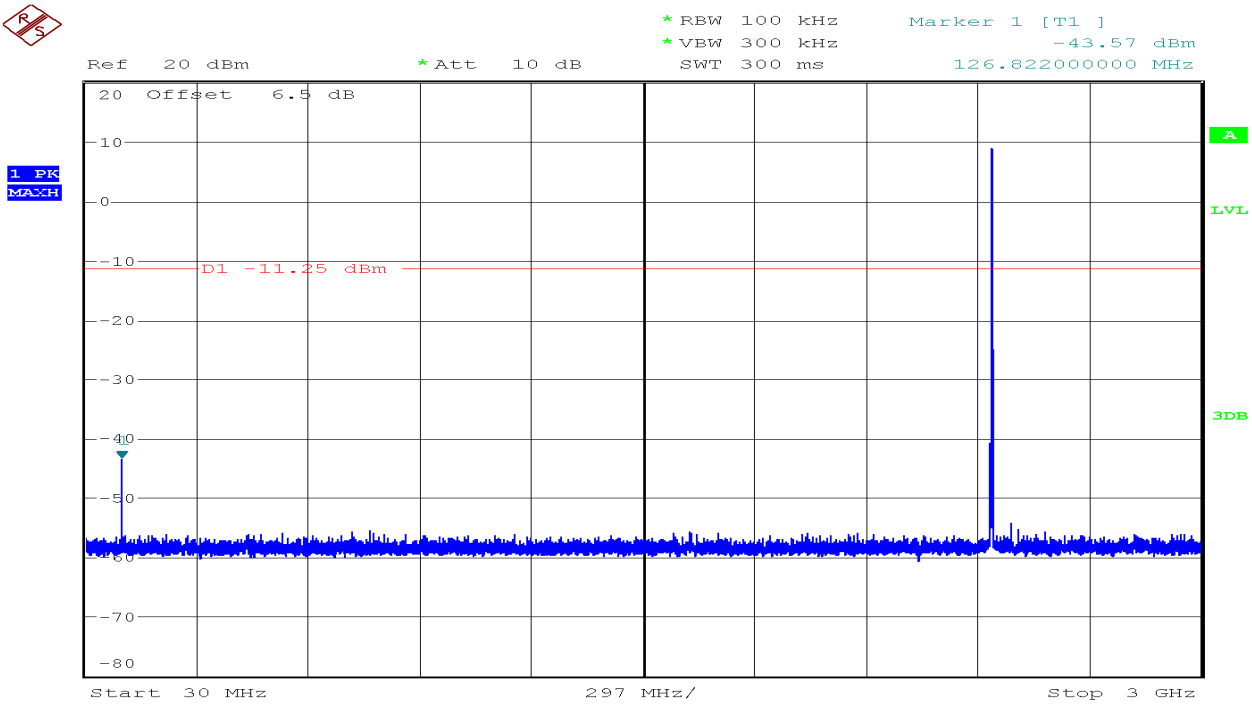
No non-compliance noted

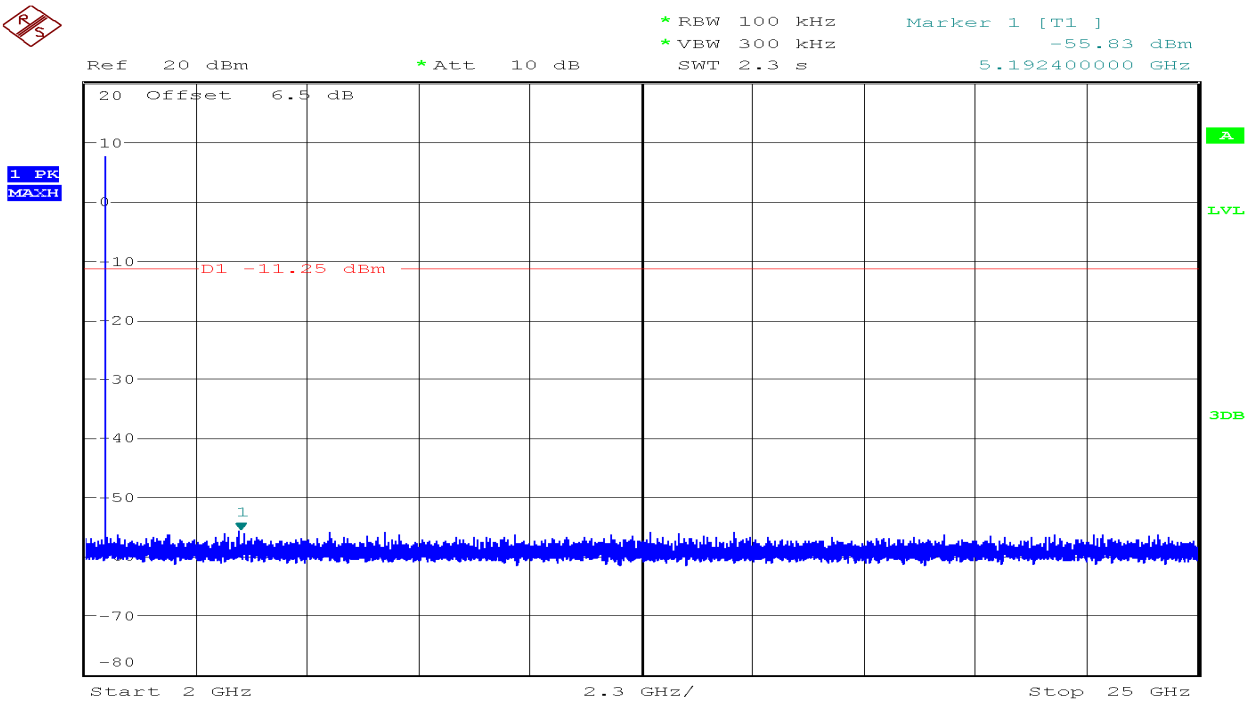
Operation Mode:	1 Mbps	Test Date:	2017-9-6
Test Channel:	00	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C



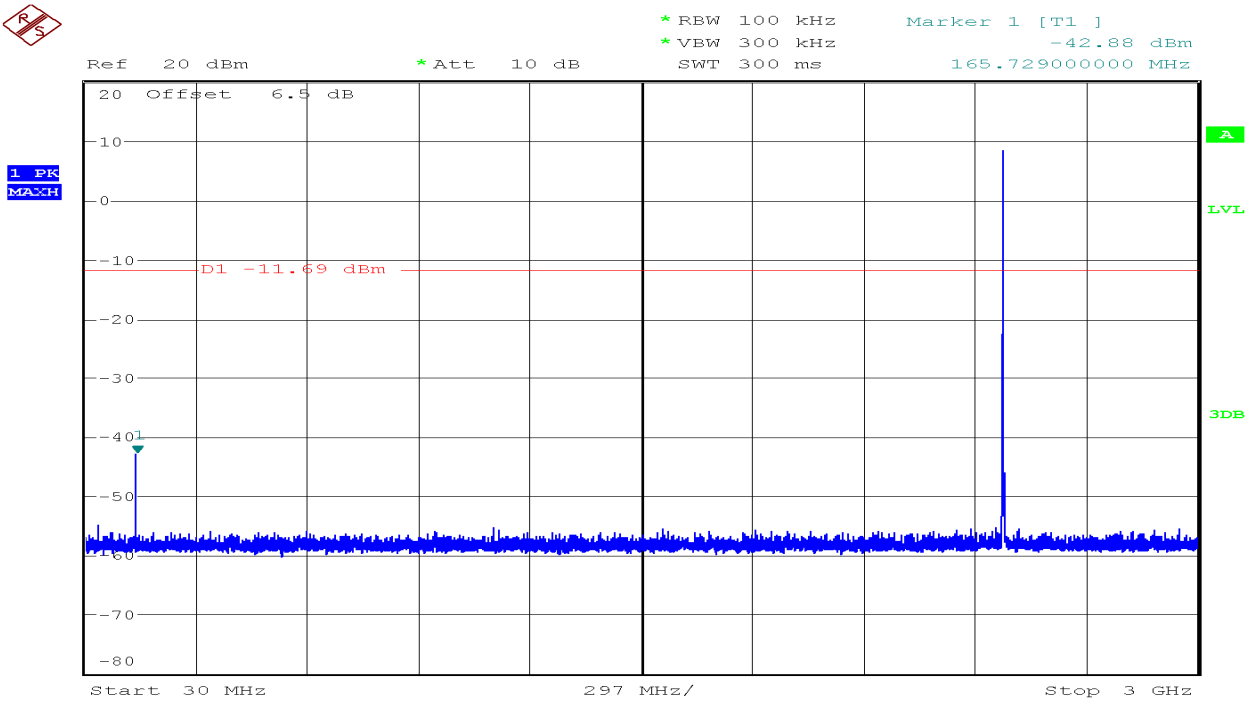


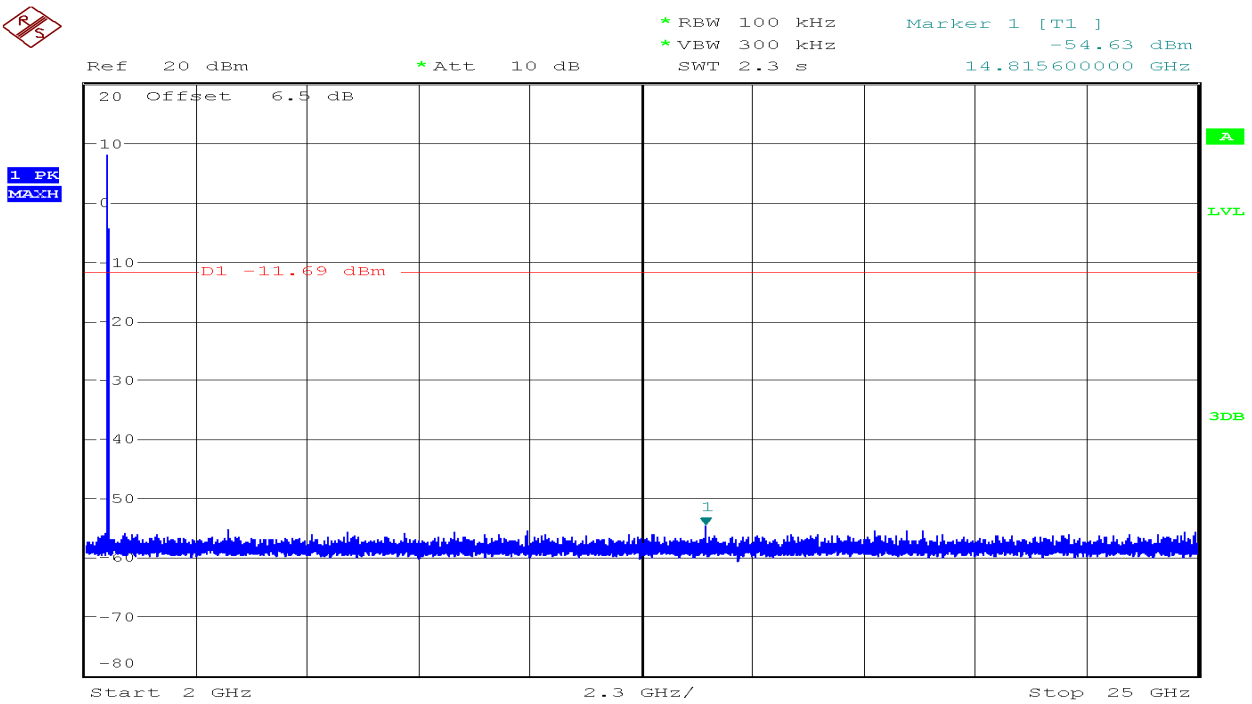
Operation Mode:	1 Mbps	Test Date:	2017-9-6
Test Channel:	39	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C



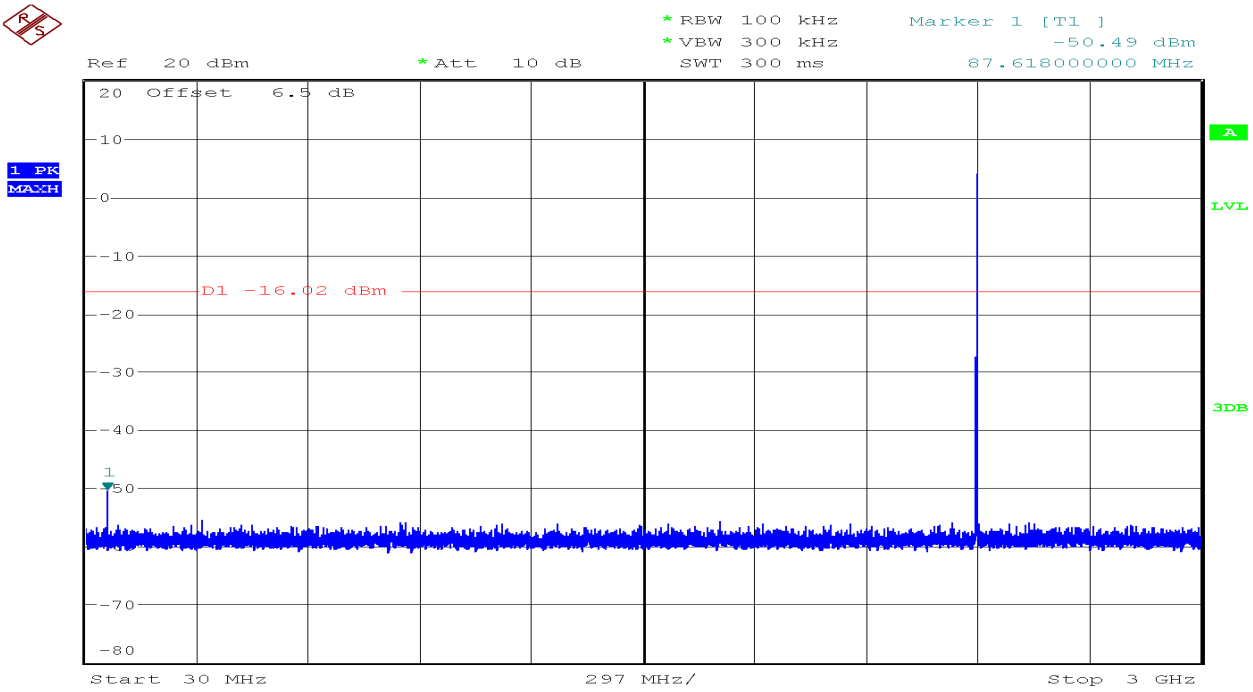


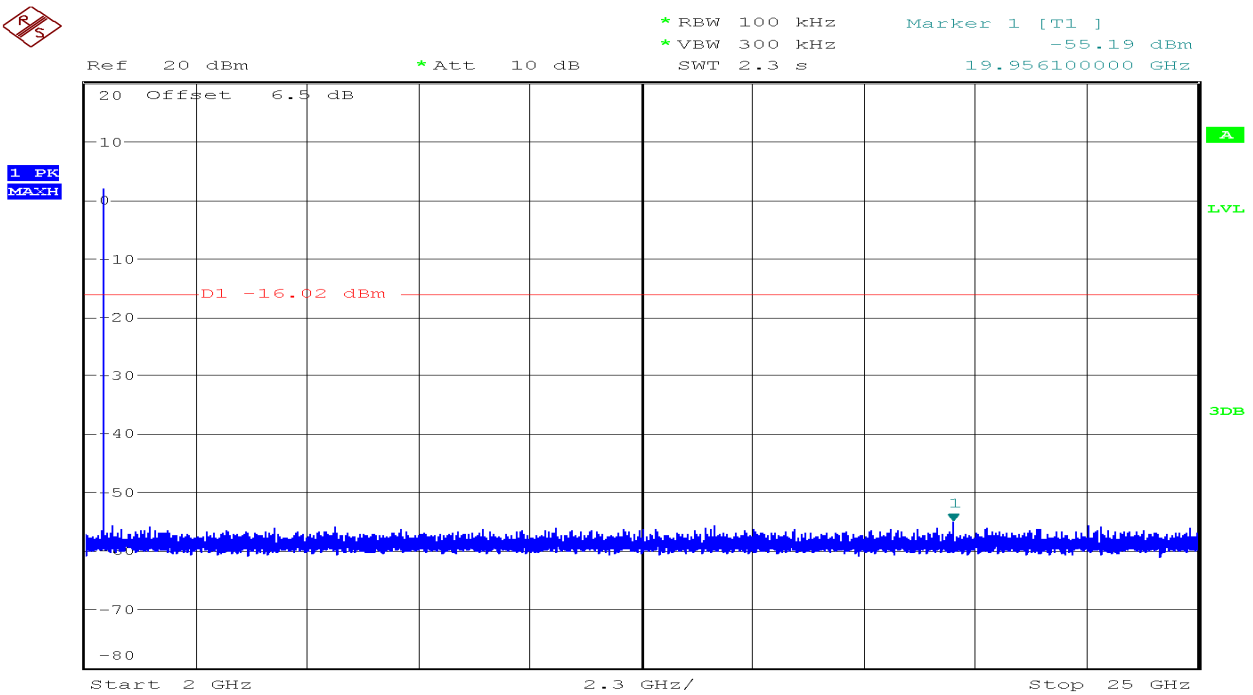
Operation Mode:	1 Mbps	Test Date:	2017-9-6
Test Channel:	78	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C



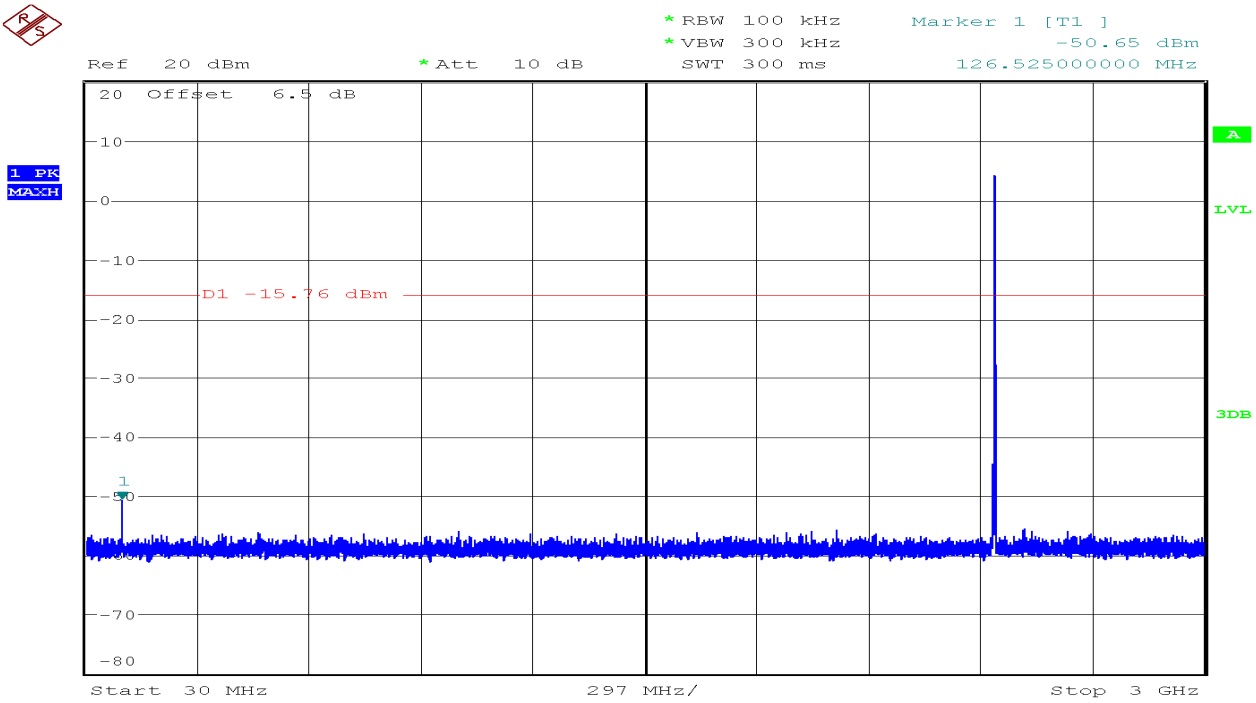


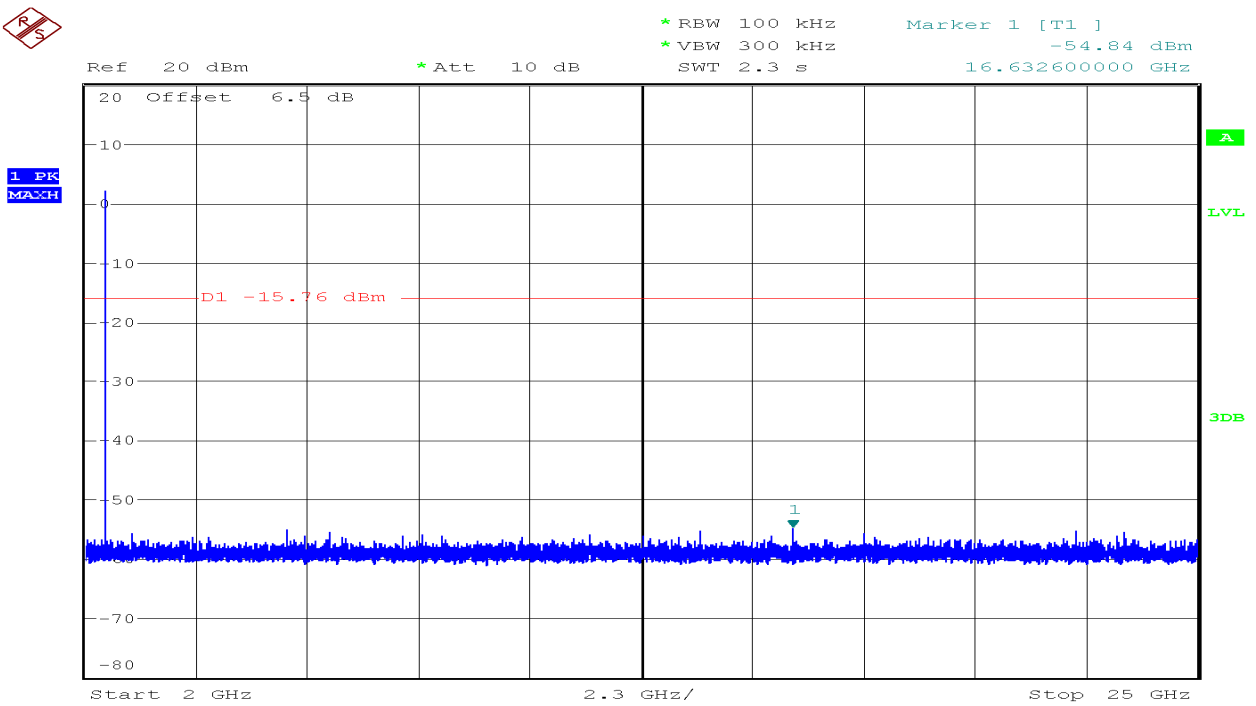
Operation Mode:	3 Mbps	Test Date:	2017-9-6
Test Channel:	00	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C



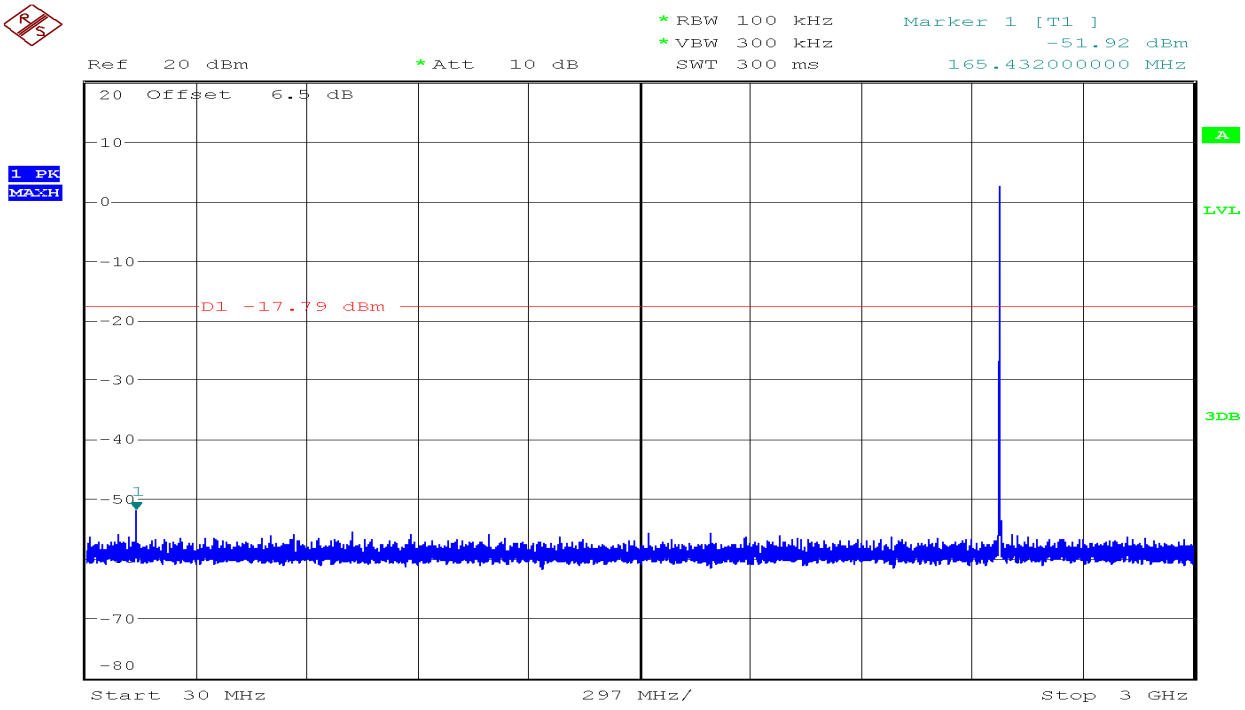


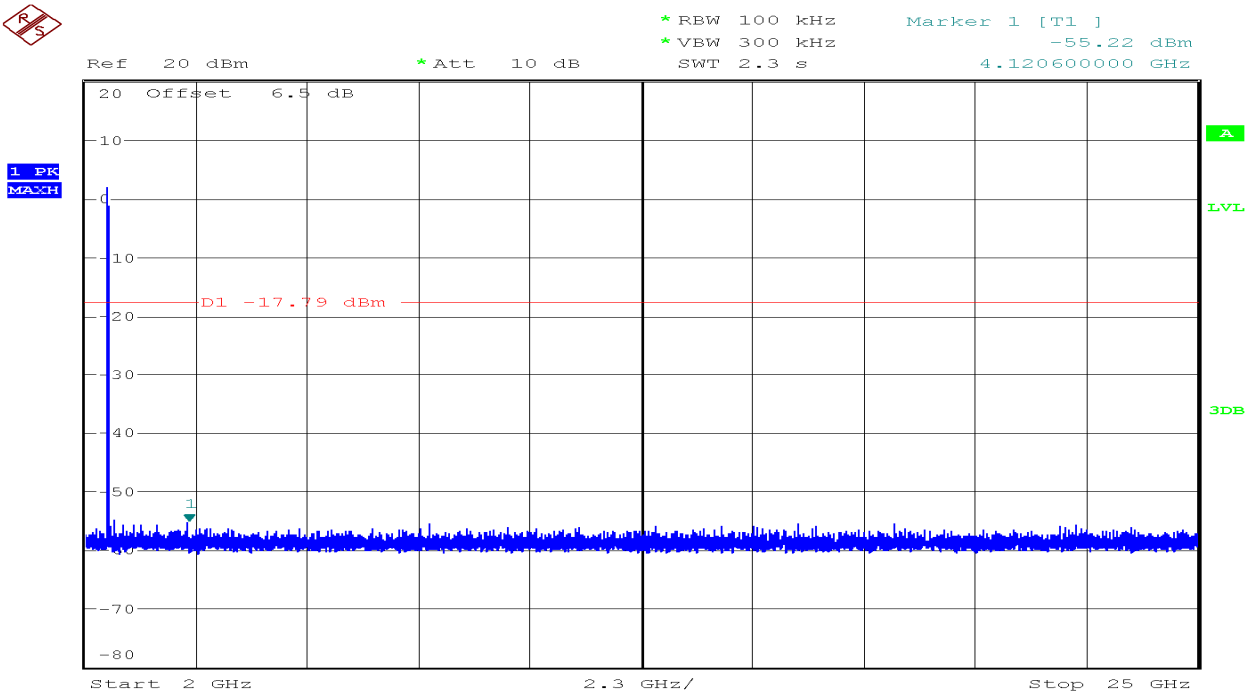
Operation Mode:	3 Mbps	Test Date:	2017-9-6
Test Channel:	39	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C





Operation Mode:	3 Mbps	Test Date:	2017-9-6
Test Channel:	78	Tested by:	James.Yan
Humidity:	52 % RH	Temperature:	24°C





6.8 Radiated Band Edge and Spurious Emission Measurement

LIMIT

1. 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 (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

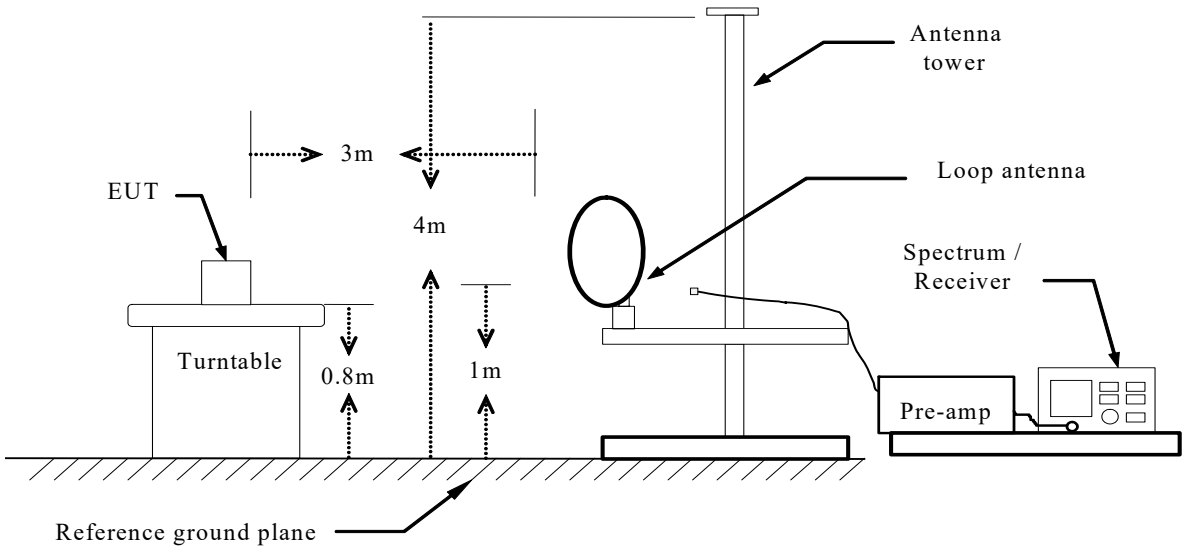
Remark: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the above emission table, the tighter limit applies at the band edges.

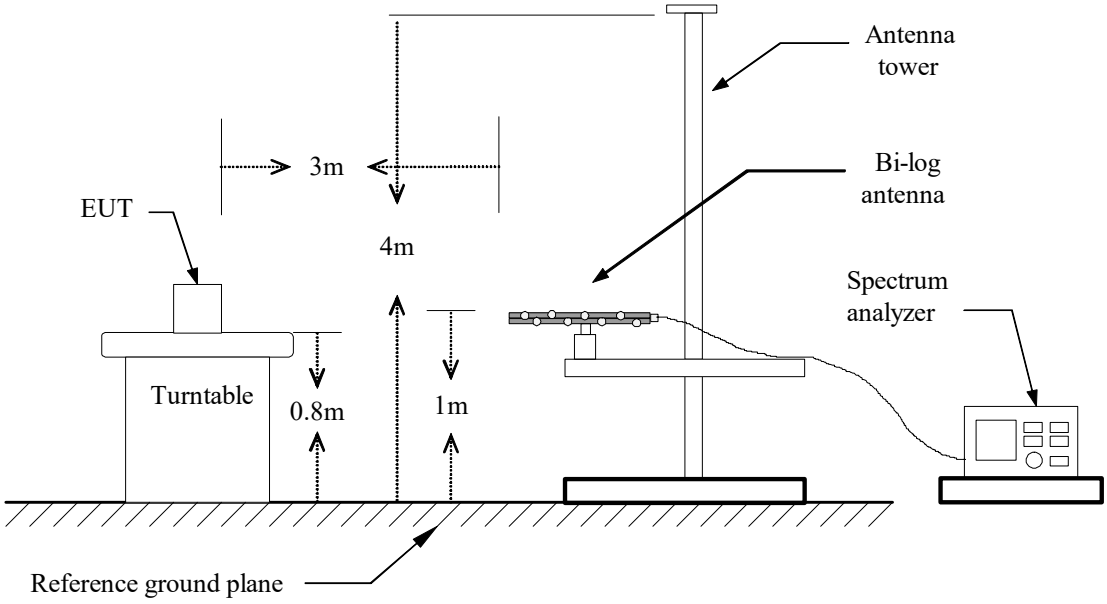
Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

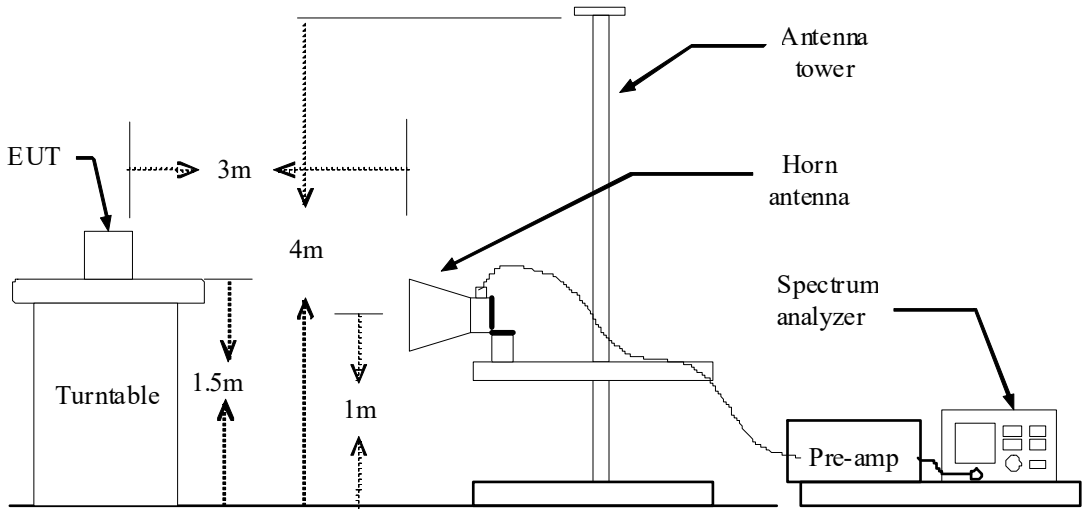
Below 30MHz



Below 1 GHz



Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable above ground plane, which is 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

   Below 1GHz:

   RBW=100kHz / VBW=300kHz / Sweep=AUTO

   Above 1GHz:

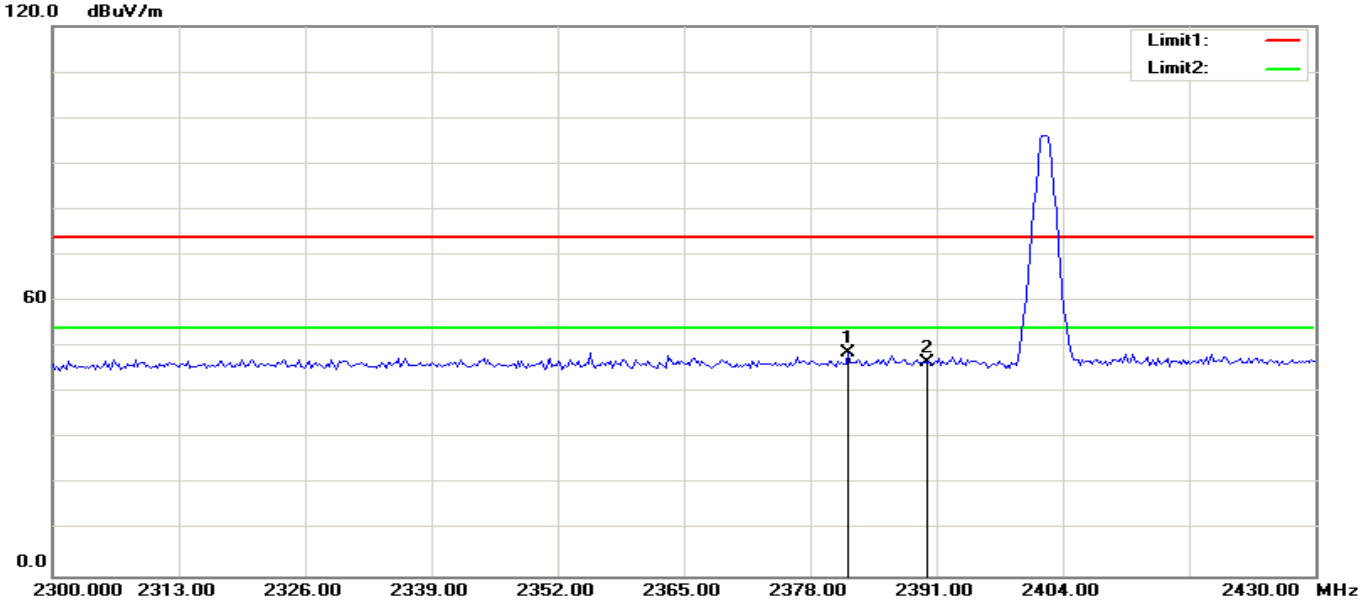
   (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

   (b) AVERAGE: RBW=1MHz,VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1 Mbps	78.2	2.917	0.3	0.3KHz
3 Mbps	77.8	2.933	0.3	0.3KHz

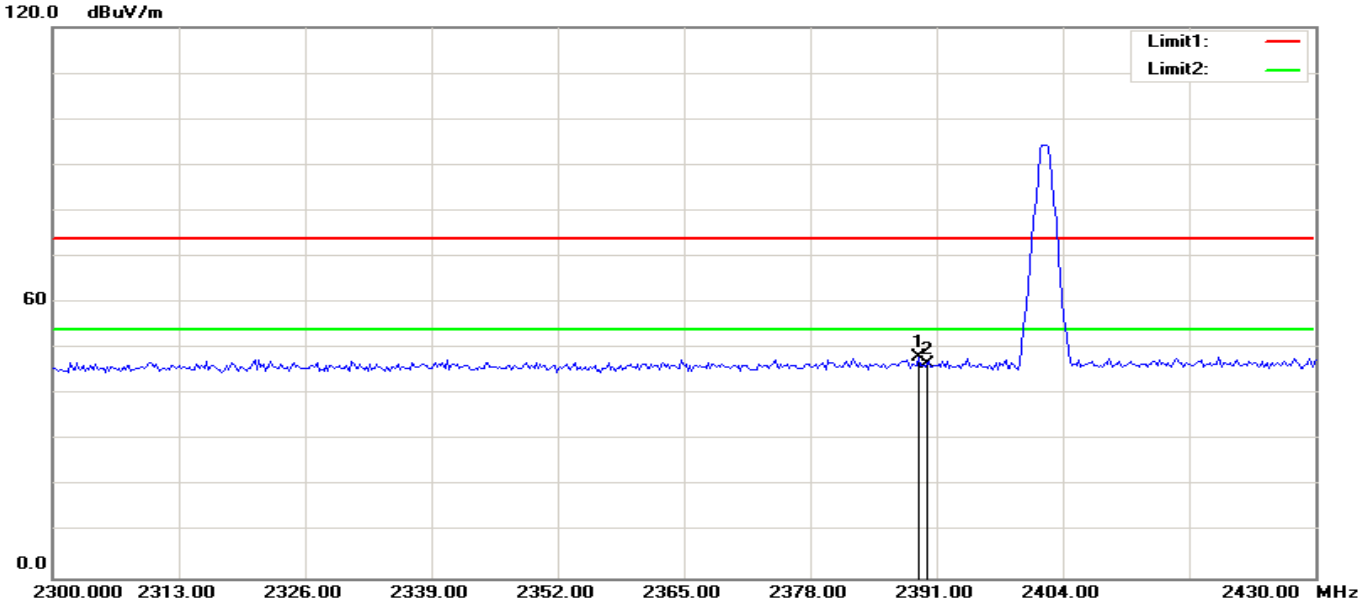
7. Repeat above procedures until the measurements for all frequencies are complete.

RESTRICTED BANDEDGE (1Mbps, Low Channel, Horizontal)



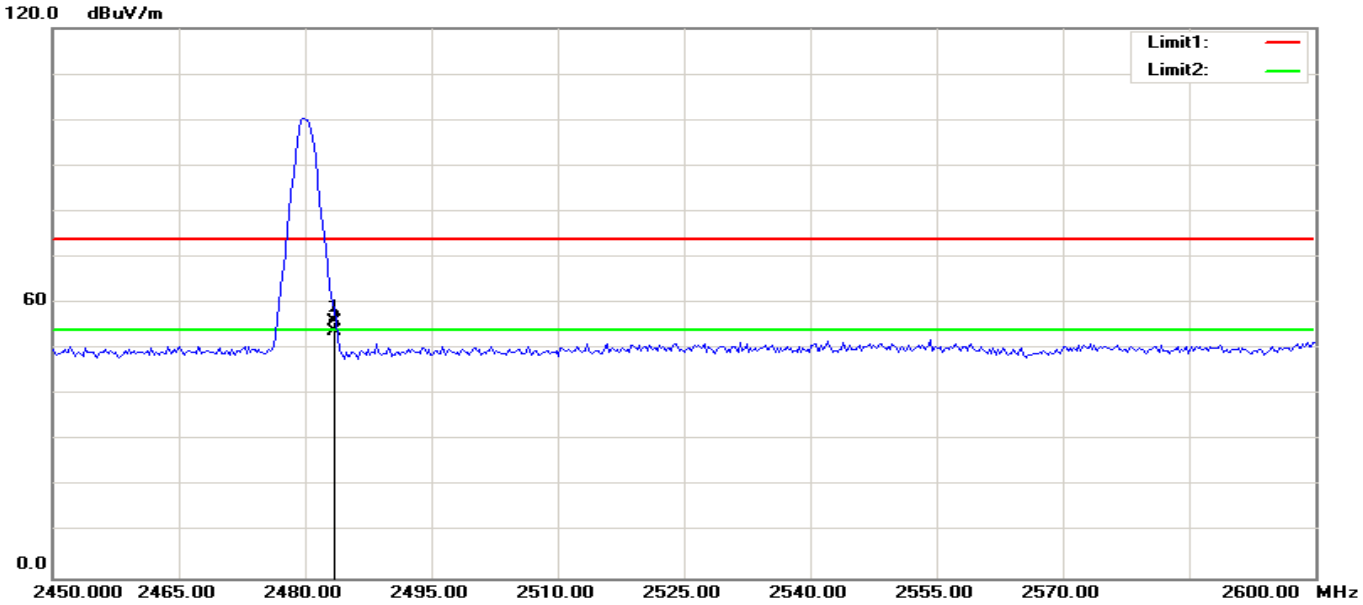
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2381.875	56.10	-7.39	48.71	74.00	-25.29	100	0	peak
2	2390.000	54.06	-7.31	46.75	74.00	-27.25	100	322	peak

RESTRICTED BANDEDGE (1Mbps, Low Channel, Vertical)



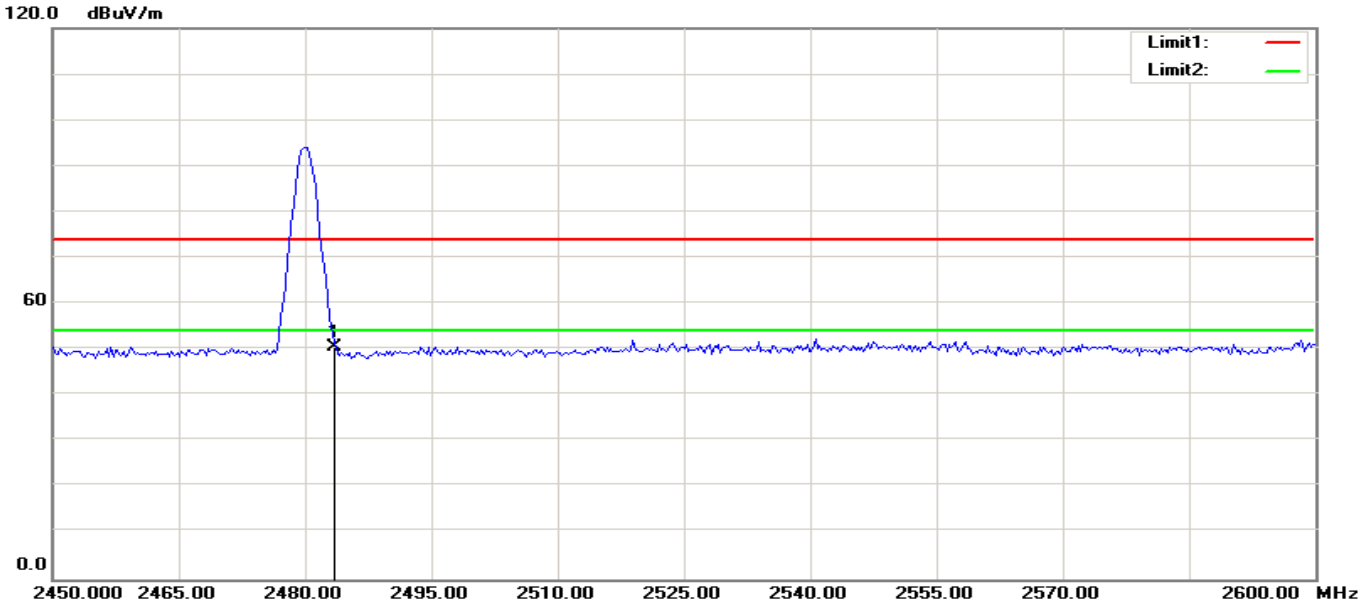
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2389.167	55.49	-7.32	48.17	74.00	-25.83	100	139	peak
2	2390.000	54.01	-7.31	46.70	74.00	-27.30	100	307	peak

RESTRICTED BANDEDGE (1Mbps Mode, High Channel, Horizontal)



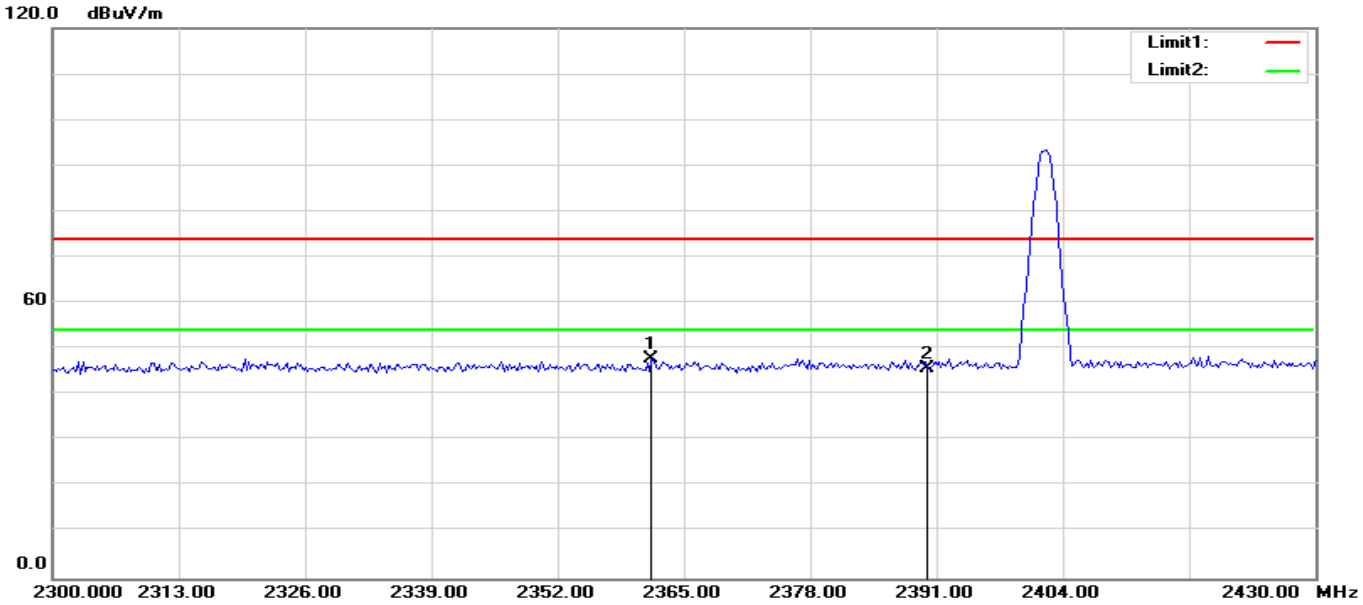
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	62.50	-6.44	56.06	74.00	-17.94	154	304	peak
2	2483.500	60.33	-6.44	53.89	54.00	-0.11	154	304	AVG

RESTRICTED BANDEDGE (1Mbps, High Channel, Vertical)



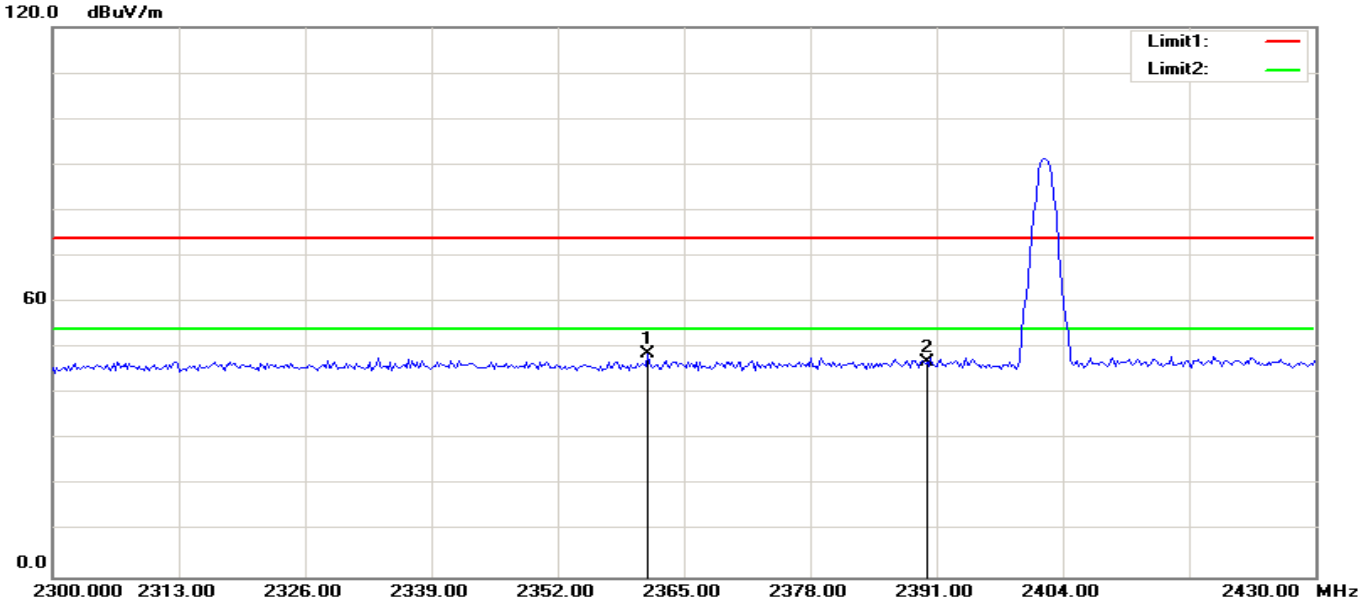
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	56.96	-6.44	50.52	74.00	-23.48	100	316	peak

RESTRICTED BANDEDGE (3Mbps, Low Channel, Horizontal)



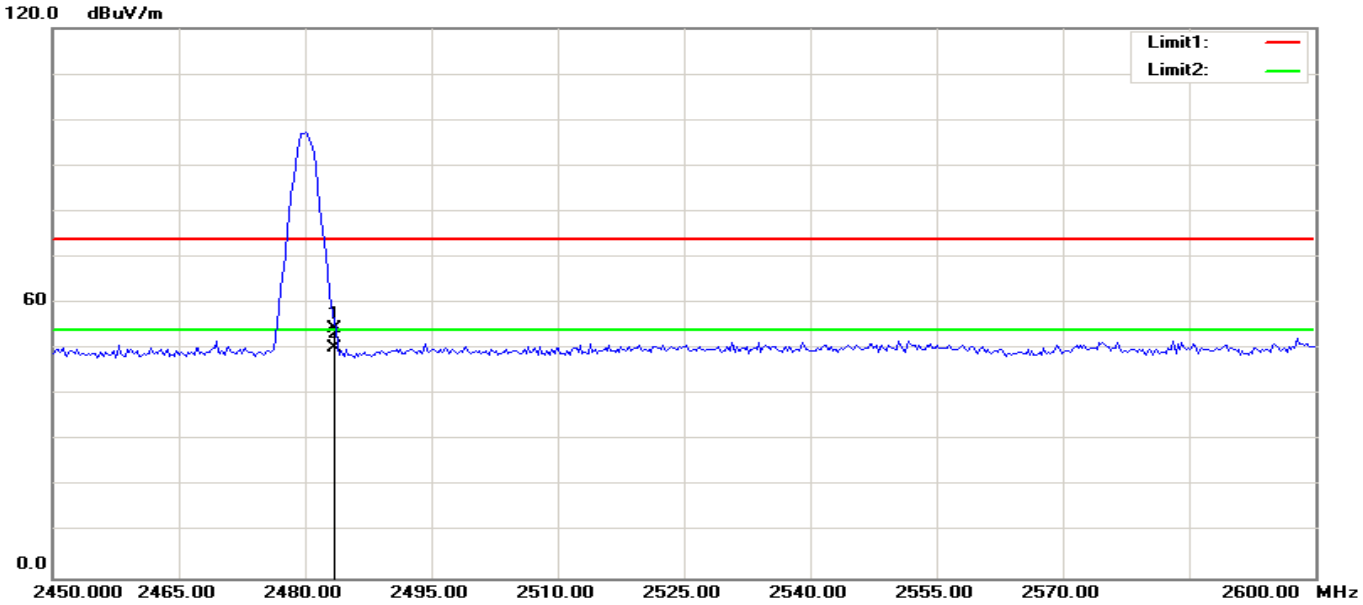
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2361.667	55.49	-7.57	47.92	74.00	-26.08	100	105	peak
2	2390.000	53.10	-7.31	45.79	74.00	-28.21	100	324	peak

RESTRICTED BANDEDGE (3Mbps, Low Channel, Vertical)



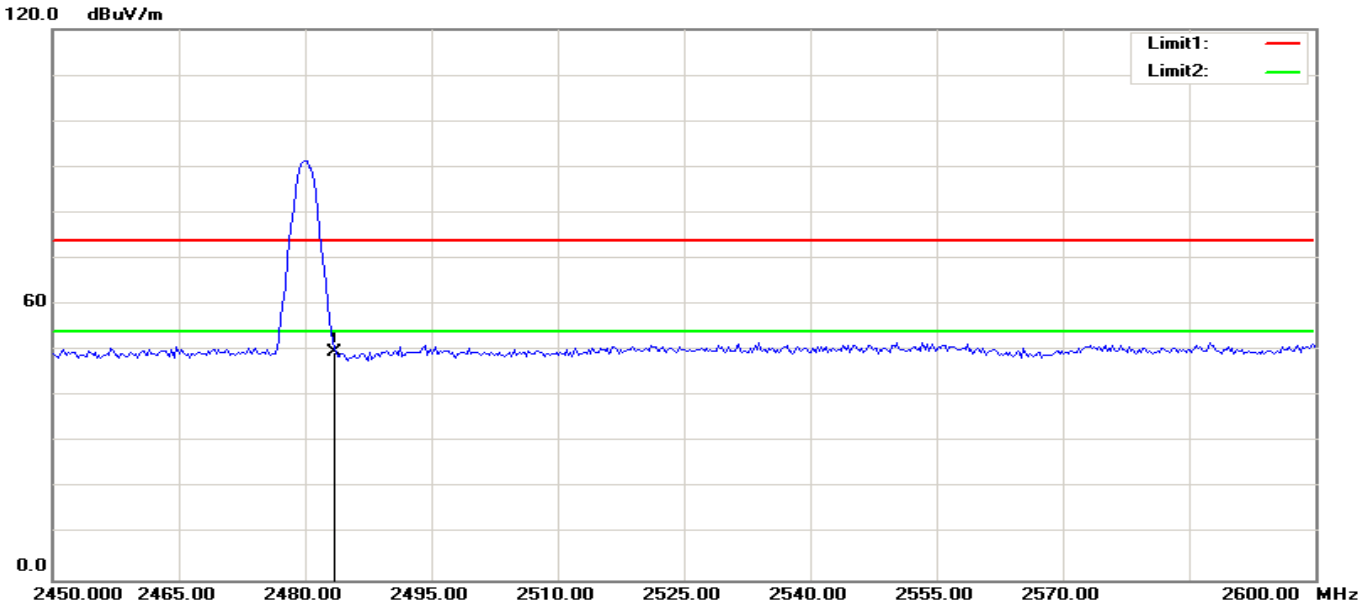
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2361.250	56.48	-7.58	48.90	74.00	-25.10	100	285	peak
2	2390.000	54.21	-7.31	46.90	74.00	-27.10	100	360	peak

RESTRICTED BANDEDGE (3Mbps, High Channel, Horizontal)



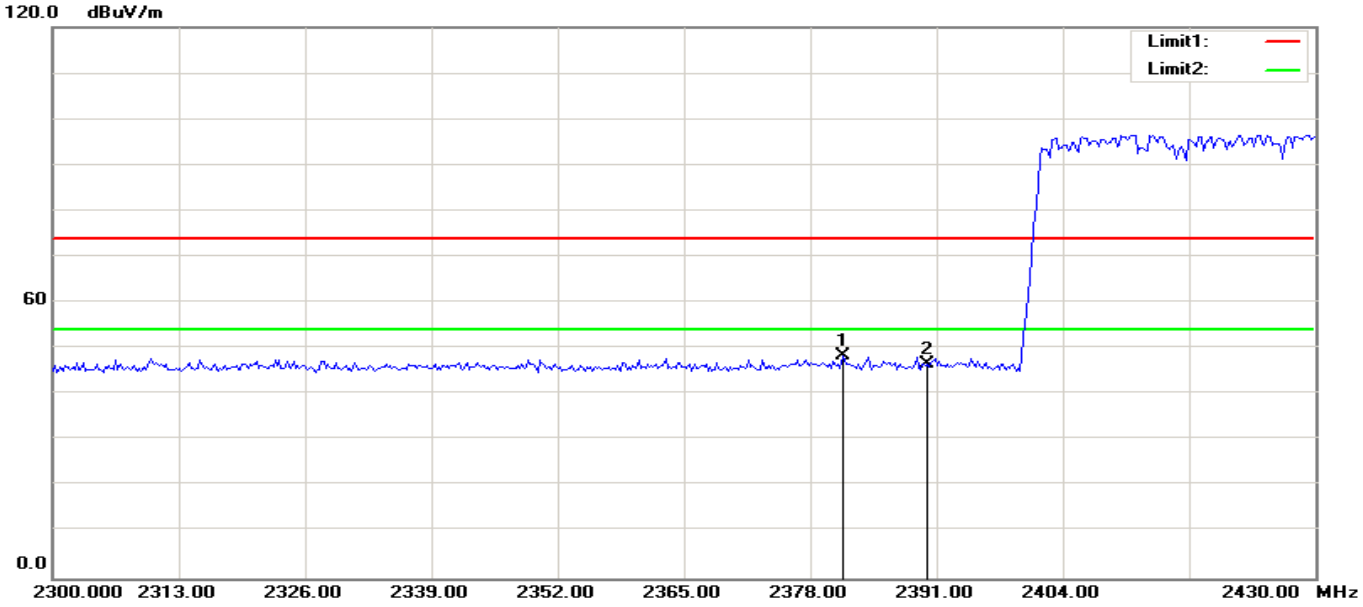
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	60.77	-6.44	54.33	74.00	-19.67	178	335	peak
2	2483.500	56.64	-6.44	50.20	54.00	-3.80	178	335	AVG

RESTRICTED BANDEDGE (3Mbps, High Channel, Vertical)



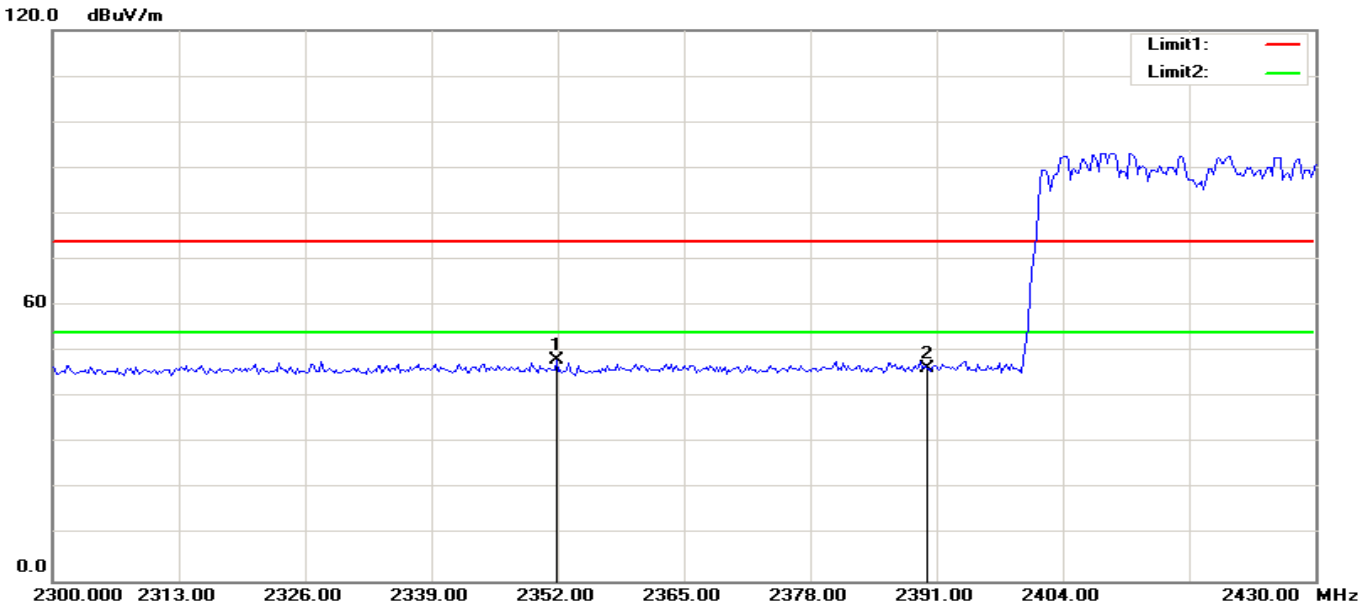
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	56.19	-6.44	49.75	74.00	-24.25	100	241	peak

RESTRICTED BANDEDGE (1Mbps, Low Channel, Horizontal, hopping)



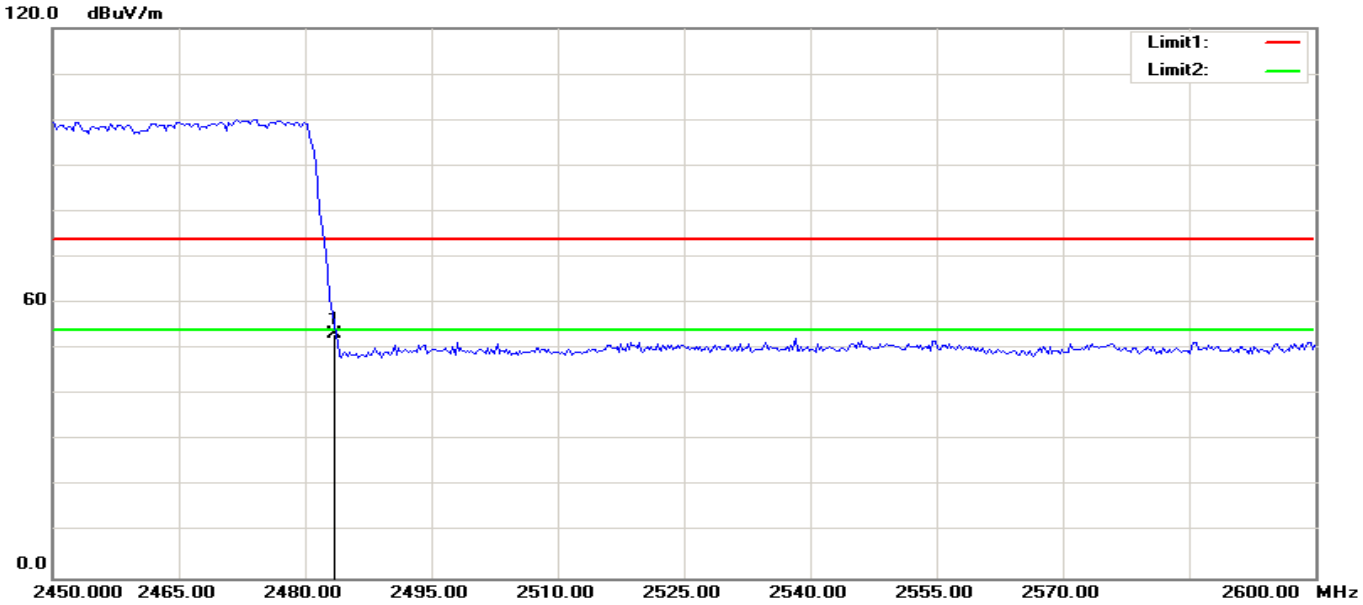
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2381.458	55.76	-7.39	48.37	74.00	-25.63	100	0	peak
2	2390.000	53.84	-7.31	46.53	74.00	-27.47	100	9	peak

RESTRICTED BANDEDGE (1Mbps, Low Channel, Vertical, hopping)



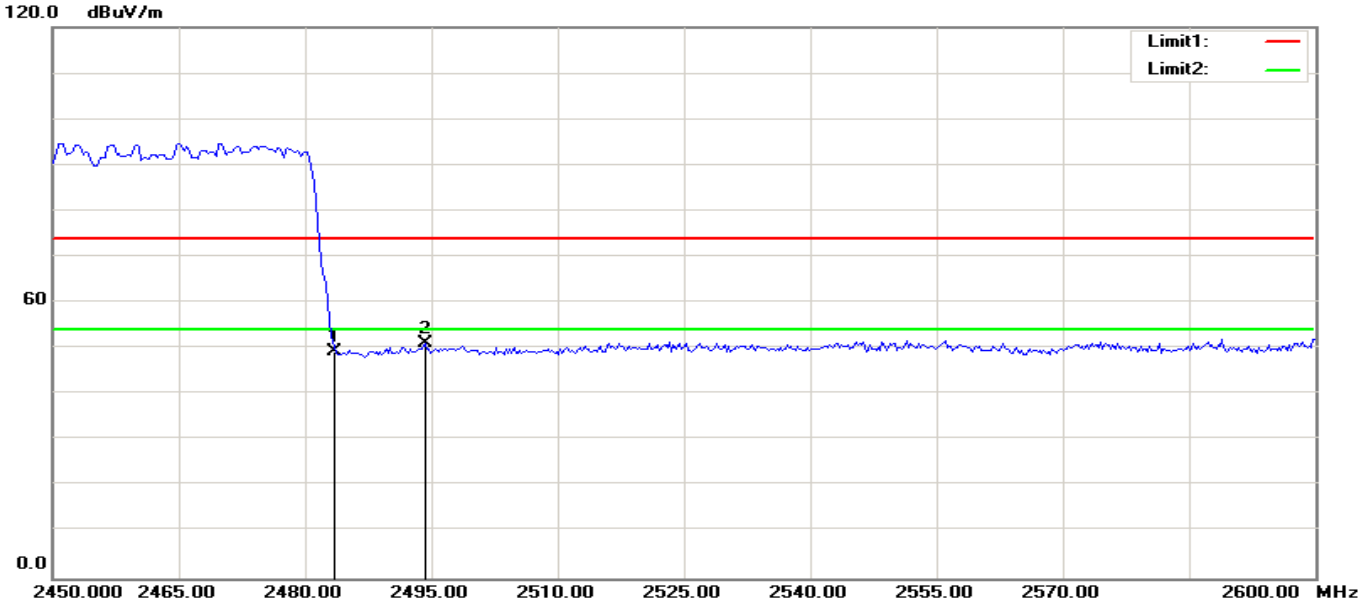
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2351.875	55.90	-7.66	48.24	74.00	-25.76	100	213	peak
2	2390.000	53.68	-7.31	46.37	74.00	-27.63	100	229	peak

RESTRICTED BANDEDGE (1Mbps Mode, High Channel, Horizontal, hopping)



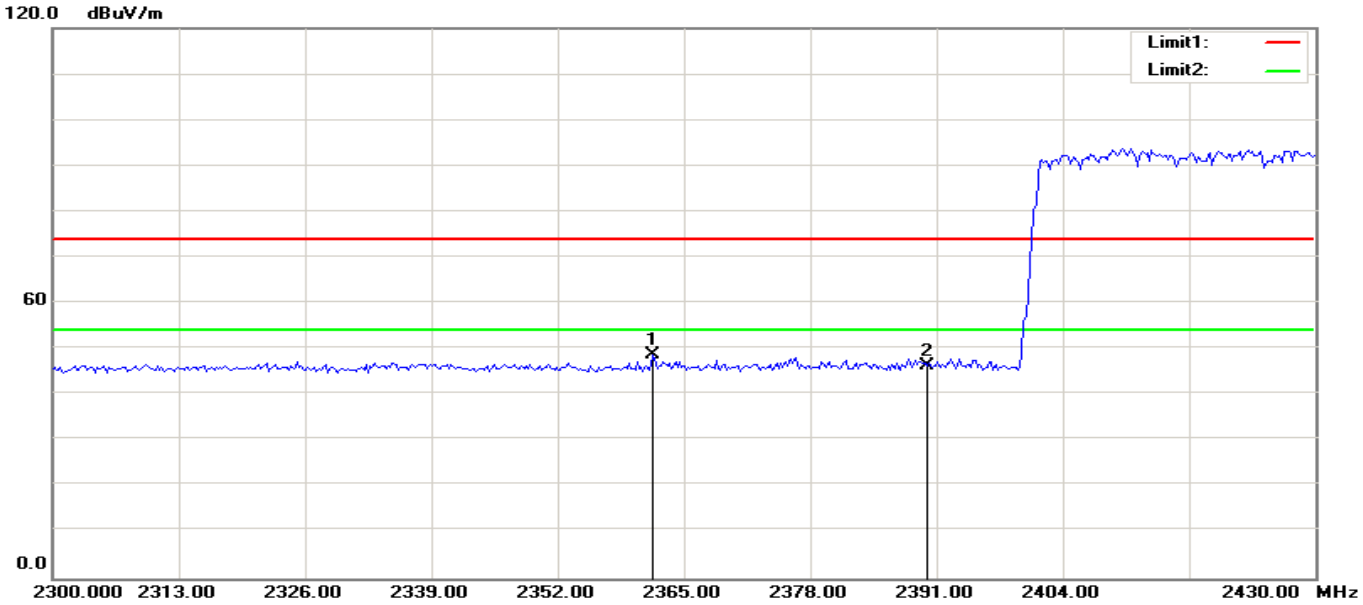
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	59.77	-6.44	53.33	74.00	-20.67	100	320	peak

RESTRICTED BANDEDGE (1Mbps, High Channel, Vertical, hopping)



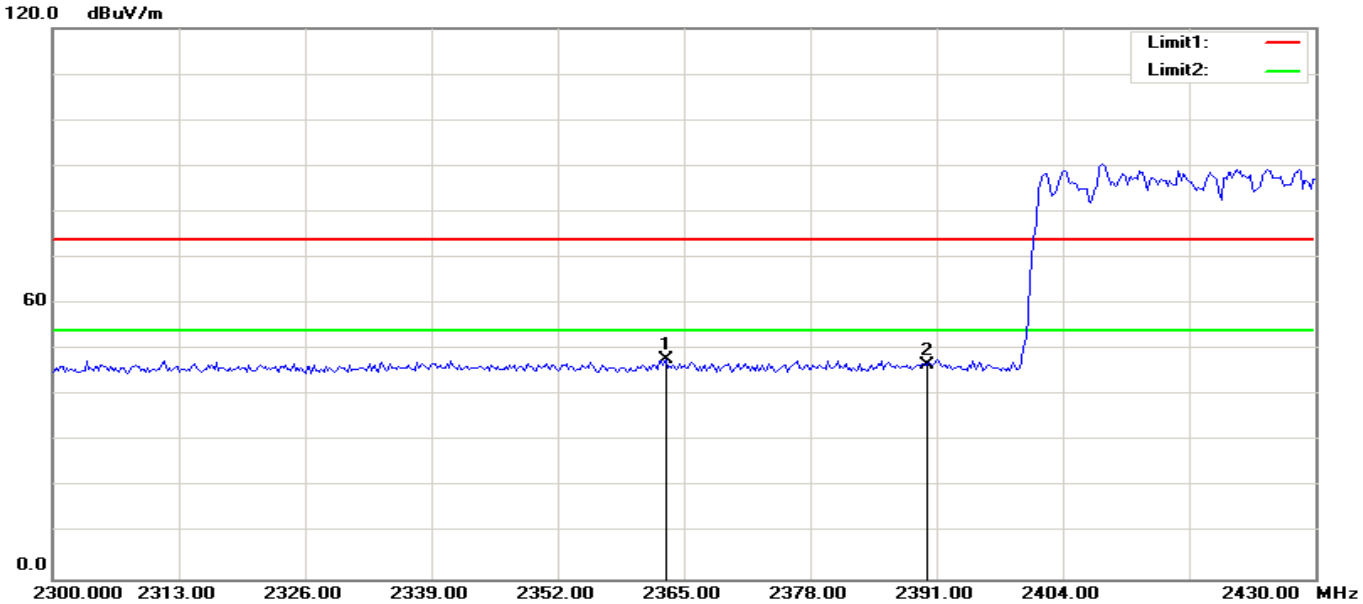
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	55.71	-6.44	49.27	74.00	-24.73	100	351	peak
2	2494.231	57.52	-6.34	51.18	74.00	-22.82	100	306	peak

RESTRICTED BANDEDGE (3Mbps, Low Channel, Horizontal, hopping)



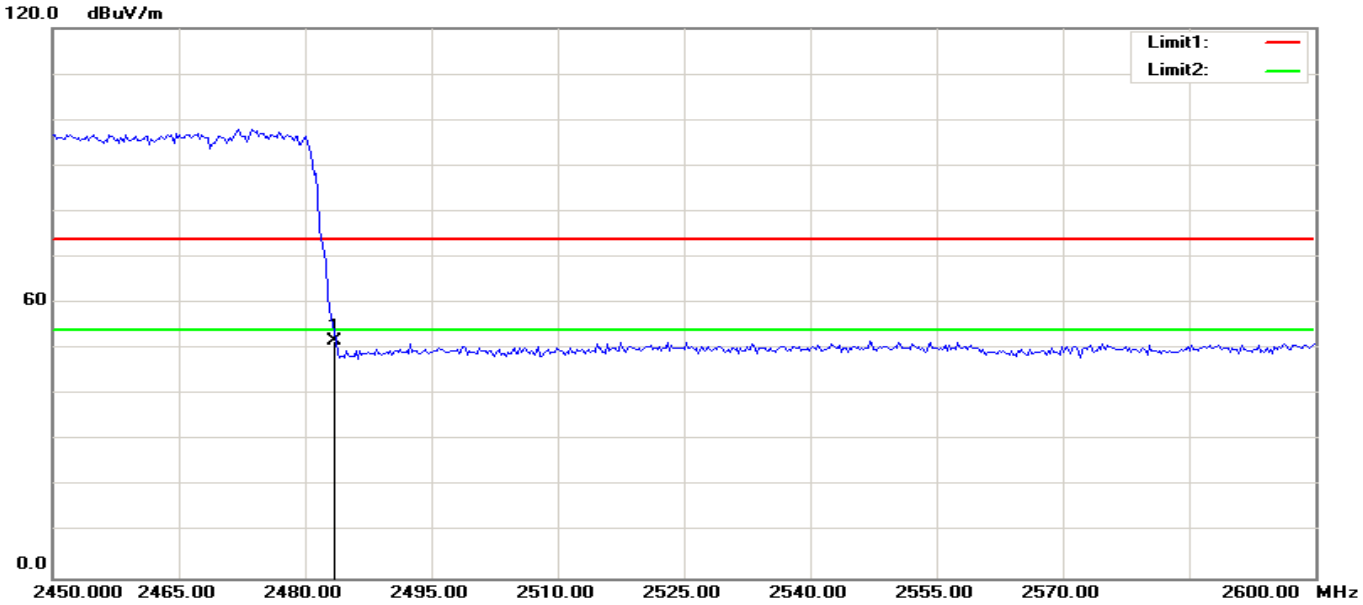
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2361.875	56.36	-7.57	48.79	74.00	-25.21	100	252	peak
2	2390.000	53.59	-7.31	46.28	74.00	-27.72	100	37	peak

RESTRICTED BANDEDGE (3Mbps, Low Channel, Vertical, hopping)



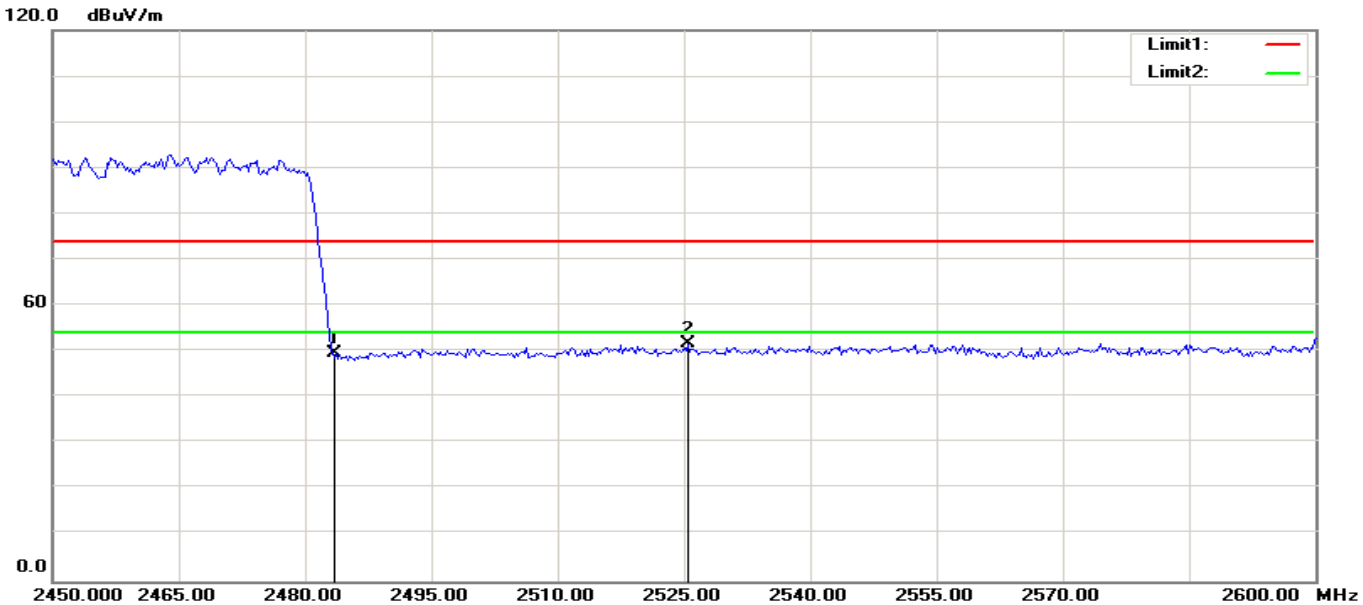
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2363.125	55.29	-7.56	47.73	74.00	-26.27	100	147	peak
2	2390.000	53.95	-7.31	46.64	74.00	-27.36	100	283	peak

RESTRICTED BANDEDGE (3Mbps, High Channel, Horizontal, hopping)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	58.26	-6.44	51.82	74.00	-22.18	100	313	peak

RESTRICTED BANDEDGE (3Mbps, High Channel, Vertical, hopping)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	56.06	-6.44	49.62	74.00	-24.38	100	202	peak
2	2525.481	57.68	-6.05	51.63	74.00	-22.37	100	124	peak

TEST RESULT OF RADIATED EMISSION

The interference of the frequency value is lower than the limit below 20 dB, measured as the background noise values and will not be recorded.

Operation Mode:	Normal Link	**Test Date:**	2017-9-7
Temperature:	25°C	**Tested by:**	James.Yan
Humidity:	48% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
40.1800	V	18.06	16.34	34.40	40.00	-5.60	QP
375.3200	V	16.78	18.57	35.35	46.00	-10.65	peak
500.4500	V	12.21	21.60	33.81	46.00	-12.19	peak
625.5800	V	15.69	23.39	39.08	46.00	-6.92	peak
679.9000	V	11.48	24.68	36.16	46.00	-9.84	peak
875.8400	V	12.49	26.04	38.53	46.00	-7.47	peak
143.4900	H	15.20	14.13	29.33	43.50	-14.17	peak
205.5700	H	16.32	15.69	32.01	43.50	-11.49	peak
375.3200	H	13.98	18.57	32.55	46.00	-13.45	peak
625.5800	H	13.21	23.39	36.60	46.00	-9.40	peak
750.7100	H	7.95	26.43	34.38	46.00	-11.62	peak
875.0000	H	15.49	26.04	41.53	46.00	-4.47	QP

Notes:

1. *Mea surements above show only up to maximum emissions noted, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
2. *Radiated emissions measured in frequency range from 9 KHz to 1000MHz were made with an instrument using Peak detector mode.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.*

Above 1 GHz

Operation Mode:	1 Mbps	**Test Date:**	2017-9-8
Test Channel:	CH00	**Tested by:**	James.Yan
Temperature:	25°C	**Polarity:**	Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5604.167	48.24	-2.23	46.01	74.00	-27.99	100	135	peak
2	7266.026	40.83	6.35	47.18	74.00	-26.82	100	60	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5604.167	51.14	-2.23	48.91	74.00	-25.09	100	180	peak
2	7102.564	42.07	6.20	48.27	74.00	-25.73	100	270	peak
N/A									

Operation Mode:	1 Mbps	**Test Date:**	2017-9-8
Test Channel:	CH39	**Tested by:**	James.Yan
Temperature:	25°C	**Polarity:**	Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5631.410	48.04	-2.10	45.94	74.00	-28.06	100	130	peak
2	7293.269	41.17	6.37	47.54	74.00	-26.46	100	100	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5631.410	51.16	-2.10	49.06	74.00	-24.94	100	176	peak
2	7102.564	42.23	6.20	48.43	74.00	-25.57	100	129	peak
N/A									

Operation Mode:	1 Mbps	**Test Date:**	2017-9-8
Test Channel:	CH78	**Tested by:**	James.Yan
Temperature:	25°C	**Polarity:**	Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5631.410	48.22	-2.10	46.12	74.00	-27.88	100	85	peak
2	7592.949	40.06	6.64	46.70	74.00	-27.30	100	209	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5631.410	51.15	-2.10	49.05	74.00	-24.95	100	177	peak
2	8764.423	41.70	6.97	48.67	74.00	-25.33	100	357	peak
N/A									

Operation Mode:	3 Mbps	**Test Date:**	2017-9-8
Test Channel:	CH00	**Tested by:**	James.Yan
Temperature:	25°C	**Polarity:**	Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5549.680	47.96	-2.49	45.47	74.00	-28.53	100	154	peak
2	7075.320	41.27	6.18	47.45	74.00	-26.55	100	32	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5549.680	50.17	-2.49	47.68	74.00	-26.32	100	178	peak
2	7048.077	40.90	6.15	47.05	74.00	-26.95	100	322	peak
N/A									

Operation Mode:	3 Mbps	**Test Date:**	2017-9-8
Test Channel:	CH39	**Tested by:**	James.Yan
Temperature:	25°C	**Polarity:**	Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5549.680	48.26	-2.49	45.77	74.00	-28.23	100	192	peak
2	7375.000	41.64	6.45	48.09	74.00	-25.91	100	69	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5549.680	49.93	-2.49	47.44	74.00	-26.56	100	178	peak
2	7020.833	40.33	6.13	46.46	74.00	-27.54	100	285	peak
N/A									

Operation Mode:	3 Mbps	**Test Date:**	2017-9-8
Test Channel:	CH78	**Tested by:**	James.Yan
Temperature:	25°C	**Polarity:**	Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5549.680	47.83	-2.49	45.34	74.00	-28.66	100	134	peak
2	7483.974	40.74	6.55	47.29	74.00	-26.71	100	349	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	5549.680	50.60	-2.49	48.11	74.00	-25.89	100	184	peak
2	7347.756	39.18	6.42	45.60	74.00	-28.40	100	336	peak
N/A									

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
3. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.*
4. *Spectrum setting:*
   a. *Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.*
   b. *AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, Sweep time = Auto.*

6.9 POWERLINE CONDUCTED EMISSIONS

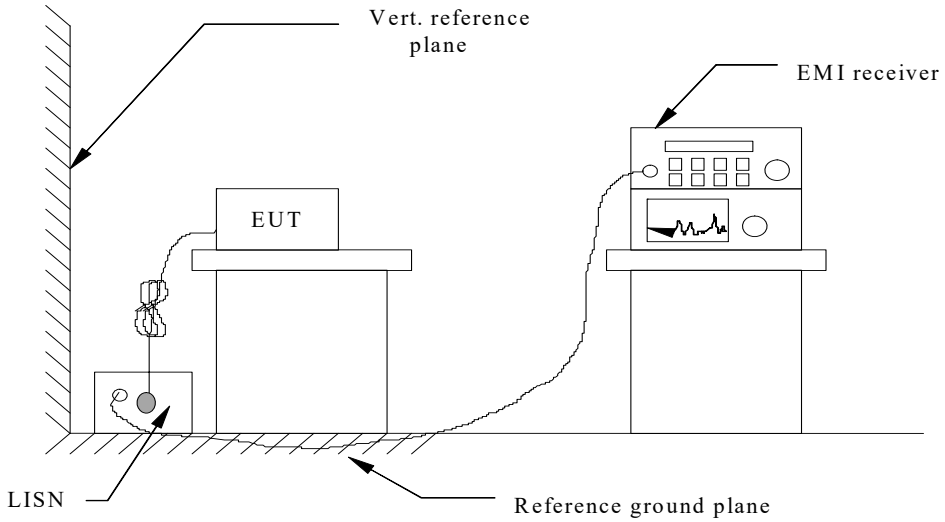
LIMIT

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 microvolts (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 is 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

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration



See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Note: The EUT is powered by DC source, so the test item needn't performance.

END OF REPORT