FCC 47 CFR PART 15 SUBPART C **TEST REPORT**

For

Product Name: Mobile Phone

Brand Name: HYUNDAI Model No.: D350 FCC ID: RQQHLT-D350 **Test Report Number:** C140425R01-RPB

Issued for

HYUNDAI CORPORATION

140-2, GYE-DONG, JONGNO-GU, SEOUL, 110-793, KOREA

Issued by

Compliance Certification Services Inc.

Kun shan Laboratory

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REVISION HISTORY

Rev.	Rev. Issue Date Report NO.		Effect Page	Contents
00	00 May 16, 2014 C140425R01-RPB		ALL	N/A

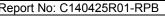


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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
3.1	15.247(a)(1)	Number of Channels	≥ 15Channels	Pass
3.2	15.247(a)(1)	Hopping Channel Separation	≥2/3 of 20dB BW	Pass
3.3	15.247(a)(1)	Dwell Time of Each Channel	≤0.4sec in 31.6sec period	Pass
3.4	15.247(a)(1)	20dB Bandwidth	NA	Pass
3.2	15.247(d)	Peak Output Power	≤ 1W for 1Mbps ≤125mW for 2,3Mbps	Pass
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	and Edges	
3.5	15.247(d)	Radiated Band Edges 15.209(a) and Spurious Emission &15.247(d)		Pass
3.6	15.207 AC Conducted Emission		15.207(a)	Pass
3.7	15.203 &15.247(b)	Antenna Requirement	N/A	Pass

1 TEST RESULT CERTIFICATION

Product Name:	Mobile Phone
Trade Name:	HYUNDAI
Model Name.:	D350
Series Model:	N/A
Applicant Discrepancy:	Initial
Device Category:	PORTABLE DEVICES
Date of Test:	April 28, 2014 ~ May 13, 2014
Applicant:	HYUNDAI CORPORATION 140-2, GYE-DONG, JONGNO-GU, SEOUL, 110-793, KOREA
Manufacturer:	WASAM TECHNOLOGY (SHEN ZHEN) CO.,LTD. B,F Building, (Hengqiang Industrial Park), Bogang Taifeng Industrial Zone, Shajing Town, Bao'an District, Shenzhen, 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 C63.4:2009 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:

Blent.Wang

Test Engineer Compliance Certification Services Inc.

Blent Wang

2 EUT DESCRIPTION

Product Name:	Mobile Phone	
Trade Name:	HYUNDAI	
Model Name.:	D350	
Model Discrepancy:	N/A	
Power Adapter Power Rating :	Power supply and ADP(rating): Model:D205 INPUT: 100-300V 50/60Hz 0.15A Output: DC 5V 500mA Battery(rating): Model:D350 Capacitance:3.7V 1200mAh	
Frequency Range :	Bluetooth:2402 ~ 2480 MHz	
Transmit Power :	: 4.63dBm(2.904mW)	
Modulation Technique :	FHSS	
Transmit Data Rate :	GFSK(1 Mbps),π/4-DQPSK(2 Mbps),8-DPSK(3 Mbps)	
Number of Channels : 79 Channels		
Antenna Specification :	PIFA Antenna	
Antenna Specification:	2.6 dBi	

Remark:

1. This submittal(s) (test report) is intended for <u>FCC ID: RQQHLT-D350</u> 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 C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 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 C63.4 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

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 C63.4.

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	GFSK	1 Mbps	0/20/79	1
Power	8DPSK	3 Mbps	0/39/78	'
Honning Channel Bandwidth	GFSK	1 Mbps	0/39/78	4
Hopping Channel Bandwidth	8DPSK	3 Mbps	0/39/76	1
Hanning Channel Congretion	GFSK	1 Mbps	38-39	1
Hopping Channel Separation	8DPSK	3 Mbps	36-39	1
Number of Henning Frequency	GFSK	1 Mbps	0-78	1
Number of Hopping Frequency	8DPSK	3 Mbps	0-78	I
Dwell Time	DH1/DH3/DH5	1 Mbps	39	1
Dwell Time	3DH1/3DH3/3DH5	3 Mbps	39	
Spurious Emission	GFSK	1 Mbps	0/39/78	1
Spurious Emission	8DPSK	3 Mbps	0/39/76	1
Pand Edga Emissions	GFSK	1 Mbps	0/78	1
Band Edge Emissions	8DPSK	3 Mbps	0/76	
Radiated Emissions Below 1GHz	GFSK	1 Mbps	78	1
Radiated Emissions Above 1GHz	GFSK	1 Mbps	0/39/78	1
Naulateu Emissions Above 1902	8DPSK	3 Mbps	0/38//8	ı
AC Power Conducted Emissions	CTX	-	-	-

Remark: For radiated test cases below 1 GHz, the worst mode data rate channel 78 of 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests.

oort No: C140425R01-RPB FCC ID: RQQHLT-D350 Date of Issue :May 16, 2

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

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.

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 C63.4 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

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 200581-0 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, IC5743 for 10m chamber 10m, IC5743 for 10m chamber 3m.

Date of Issue :May 16, 2014

5.4 TABLE OF ACCREDITATIONS

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

> **TAF Taiwan 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 Due		
Spectrum Analyzer	RS	FSU26	200789	2014-8-19		
DETECTOR NEGATIVE	Agilent	8473B	MY42240176	2015-5-11		
OSCILLOSCOPE	Agilent	DSO6104A	MY44002585	2015-3-16		
Power Sensor	Agilent	E9327A	US40441788	2015-3-17		
Power Meter	Agilent	E4416A	QB41292714	2015-3-17		
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	N.C.R		
DC Power Supply	AGILENT	E3632A	MY50340053	N.C.R		
Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	2015-1-22		
Test Software	EZ-EMC					

977 Chamber						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	RS	FSU26	200789	2014-8-19		
EMI Test Receiver	R&S	ESPI3	101378	2015-1-22		
Pre-Amplfier	MINI	ZFL-1000VH2	070306	2015-1-22		
Pre-Amplfier	Miteq	NSP400-NF	N/A	N.C.R		
Bilog Antenna	Sunol	JB1	A110204-1	2015-3-7		
Horn-antenna	SCHWARZBECK	BBHA9120D	D:267	2015-3-7		
Turn Table	СТ	CT123	4165	N.C.R		
Antenna Tower	СТ	CTERG23	3256	N.C.R		
Test Software	Test Software EZ-EMC					

Conducted Emission						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI TEST RECEIVER	R&S	ESCI	100781	2015-3-16		
V (V-LISN)	Schwarzbeck	NNLK 8129	8129-143	2014-8-19		
LISN (EUT)	FCC	FCC-LISN-50/250-50-2-02	SN:05012	2015-3-16		
10dB Attenuation	SCHAFFNER	CFL9206	1710	N.C.R		
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

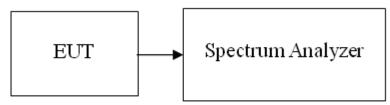
Limit

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)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 3. 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

The transmitter output is connected to the spectrum analyzer. Set the RBW = 3MHz. VBW = 3MHz, Detector = Peak, Trace mode = max hold, Sweep = auto couple. Record the max reading.

Repeat the above procedure until the measurements for all frequencies are completed.

Test Results

No non-compliance noted

Test RESULTS

1M GFSK Modulation mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Limit (mW)	Result
Low	2402	3.19	2.084		PASS
Mid	2441	4.42	2.767	125	PASS
High	2480	4.63	2.904		PASS

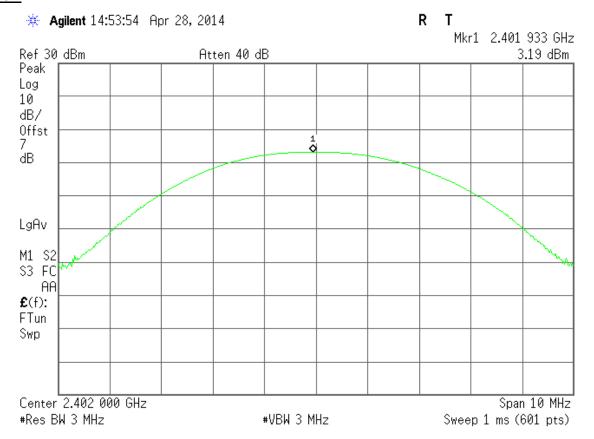
3M 8-DPSK Modulation mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Limit (mW)	Result
Low	2402	2.58	1.811		PASS
Mid	2441	3.76	2.377	125	PASS
High	2480	3.93	2.472		PASS

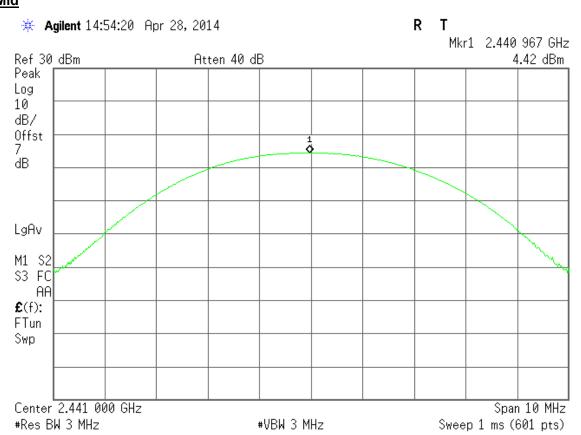
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Test Data 1M

Ch low

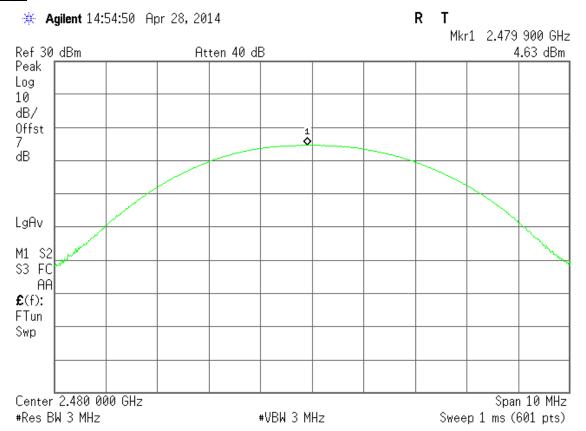


CH Mid



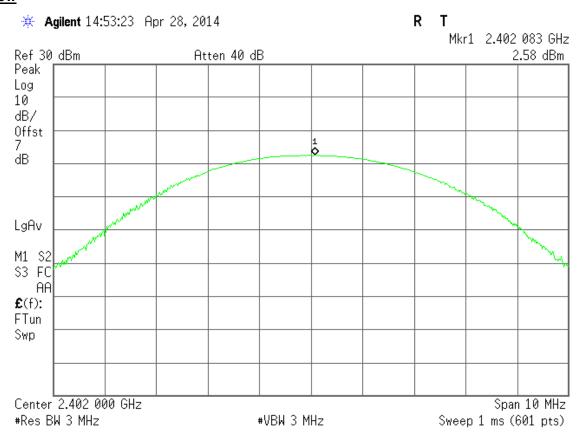


CH High



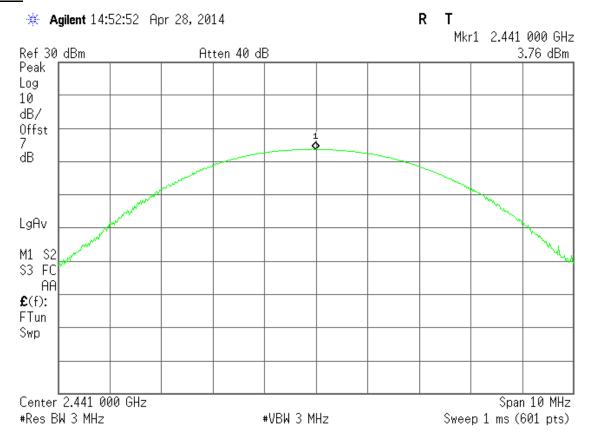
Test Data 3M

Ch low

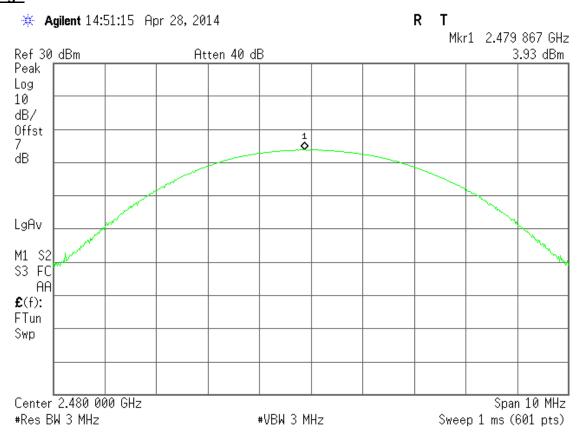




Ch mid



Ch High

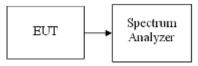


6.2 PEAK POWER SPECTRAL DENSITY

Limit

- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

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 = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 4. Record the max. reading.
- 5. Repeat the above procedure until the measurements for all frequencies are completed.

Test Results

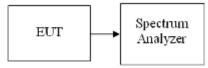
NA (this test item is not required for FHSS modulation technical)

6.3 HOPPING CHANNEL 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 = 2MHz, Sweep = auto.
- 4. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

Test Results of Bandwidth

No non-compliance noted

Operation Mode:	1 Mbps	Test Date:	April 28, 2014
Temperature:	24°C	Tested by:	Blent.Wang

Channel	Frequency (MHz)	Bandwidth (B) (MHz)
00	2402	0.901
39	2441	0.898
78	2480	0.900

Operation Mode:	3 Mbps	Test Date:	April 28, 2014
Temperature:	24°C	Tested by:	Blent.Wang

Channel	Frequency (MHz)	Bandwidth (B) (MHz)
00	2402	1.157
39	2441	1.157
78	2480	1.160

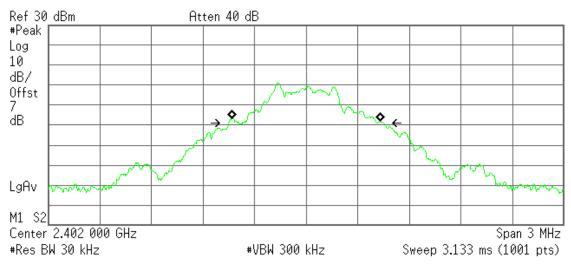
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Test Plot

1M Channel 00

* Agilent 12:41:30 Apr 28, 2014

R T



Occupied Bandwidth 858.4056 kHz

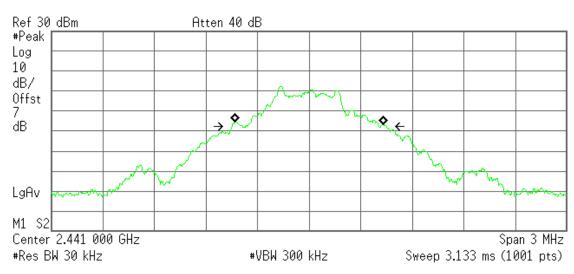
Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error -1.188 kHz x dB Bandwidth 900.565 kHz

1M Channel 39

* Agilent 12:41:04 Apr 28, 2014

R T

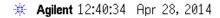


Occupied Bandwidth 859.5058 kHz Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error -1.627 kHz x dB Bandwidth 897.696 kHz



1M Channel 78



R T



Occupied Bandwidth 861.3608 kHz

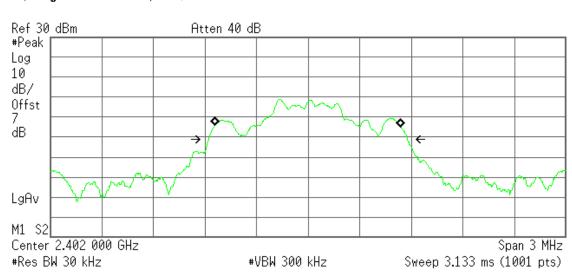
Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error -1.926 kHz x dB Bandwidth 900.135 kHz

3M Channel 00



R T

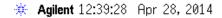


Occupied Bandwidth 1.0816 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB

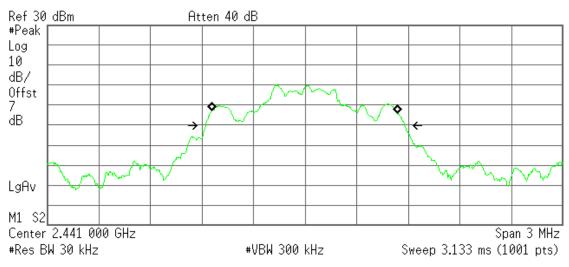
Transmit Freq Error -2.441 kHz x dB Bandwidth 1.157 MHz



3M Channel 39



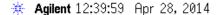
R T



Occupied Bandwidth 1.0800 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB

Transmit Freq Error -3.166 kHz x dB Bandwidth 1.157 MHz

3M Channel 78



R T



Occupied Bandwidth 1.0768 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB

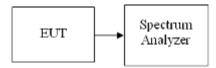
Transmit Freq Error -3.918 kHz x dB Bandwidth 1.160 MHz

6.4 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

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

TEST RESULTS

No non-compliance noted

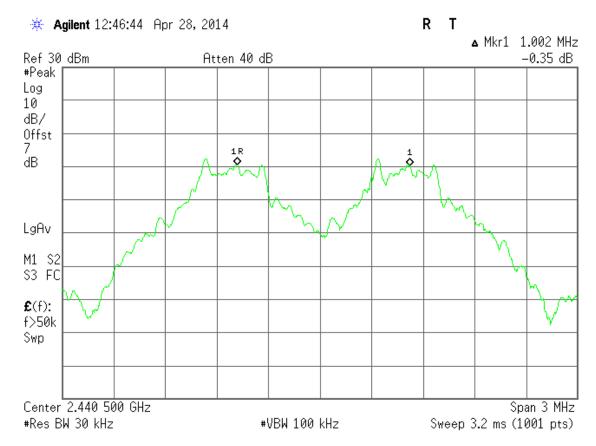
Operation Mode:	1 Mbps	Test Date:	April 28, 2014
Temperature:	24°C	Tested by:	Blent.Wang

Channal	Frequency	Separation	(2/3 of 20dB BW)	Result
Channel	(MHz)	(MHz)	Limits (MHz)	Result
38~39	2440~2441	1.002	0.601	Pass

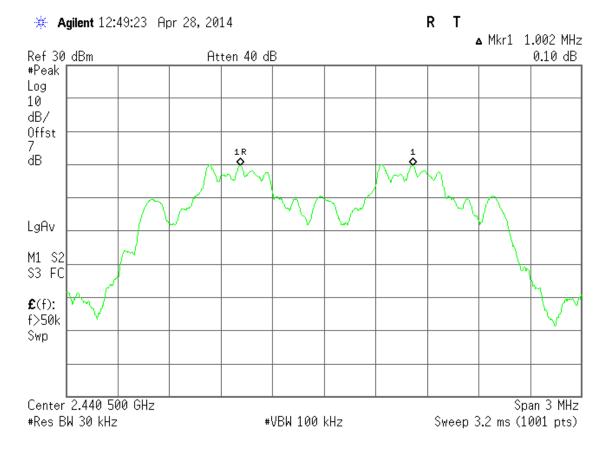
Operation Mode:	3 Mbps	Test Date:	April 28, 2014
Temperature:	24°C	Tested by:	Blent.Wang

Channal	Frequency	Separation	(2/3 of 20dB BW)	Result
Channel	(MHz)	(MHz)	Limits (MHz)	Result
38~39	2440~2441	1.002	0.773	Pass

1M Channel Separation Plot on Channel 38-39



3M Channel Separation Plot on Channel 38-39

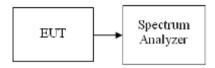


6.5 NUMBER OF HOPPING FREQUENCY

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 = 2441MHz, Sweep = auto and Start=2441MHz, 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:	April 28, 2014
Temperature:	24°C	Tested by:	Blent.Wang

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

Operation Mode:	3 Mbps	Test Date:	April 28, 2014
Temperature:	24°C	Tested by:	Blent.Wang

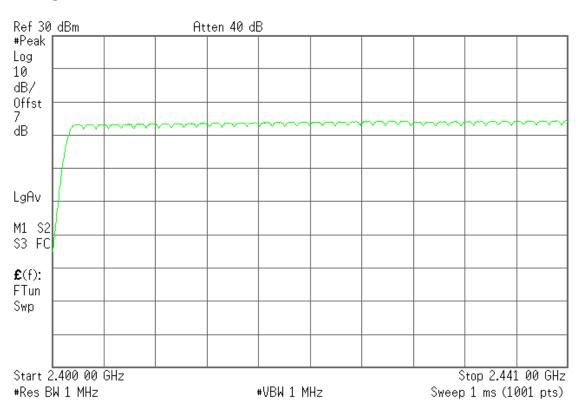
Result (No. of CH)	Limit (No. of CH)	Result
79	>15	PASS

Test Plot:1M

Channel Number 2.4 GHz - 2.441 GHz

* Agilent 13:01:39 Apr 28, 2014

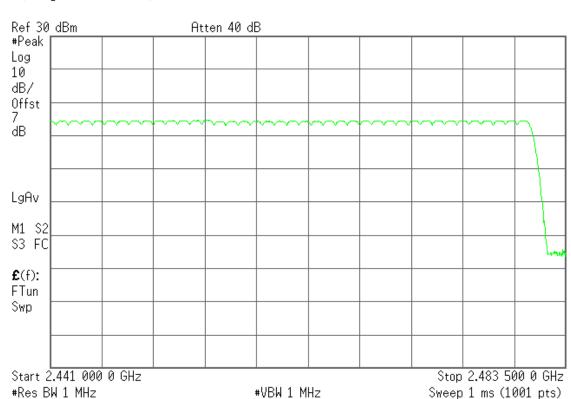
R T



Channel Number 2.441 GHz – 2.4835 GHz



R T

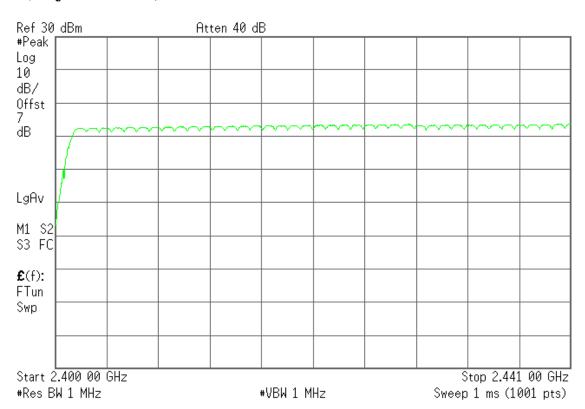


Test Plot:3M

Channel Number 2.4 GHz - 2.4415 GHz

* Agilent 12:53:22 Apr 28, 2014

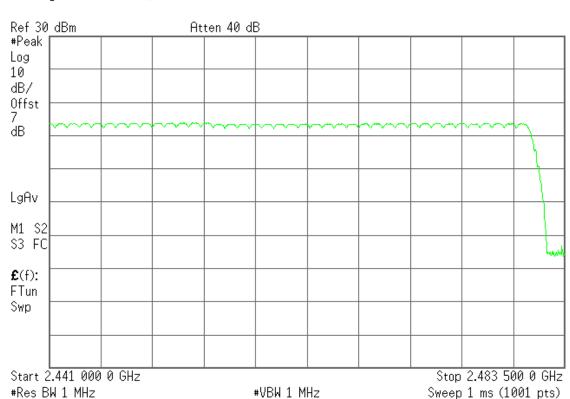
R T



Channel Number <u>2.4415 GHz – 2.4835 GHz</u>

* Agilent 12:56:05 Apr 28, 2014

R T

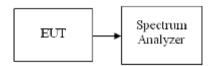


6.6 TIME OF OCCUPANCY (DWELL TIME)

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

0.362 * (1600/2)/79 * 31.6 = 115.84(ms)

Pulse Time (ms)	Total of Dwell (ms)		Limit (ms)	Result
0.362	115.84	31.60	400	PASS

DH₃

1.625 * (1600/4)/79 * 31.6 = 260.00 (ms)

Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
1.625	260.00	31.60	400	PASS

DH 5

2.867* (1600/6)/79 * 31.6 = 305.81 (ms)

Pulse Time (ms)	Total of Dwell (ms)		Limit (ms)	Result
2.867	305.81	31.60	400	PASS



DH 1

0.383 * (1600/2)/79 * 31.6 = 122.56 (ms)

Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
0.383	122.56	31.60	400	PASS

DH 3

1.625 * (1600/4)/79 * 31.6 = 260.00 (ms)

Pulse Time (ms)		Period Time (s)	Limit (ms)	Result
1.625	260.00	31.60	400	PASS

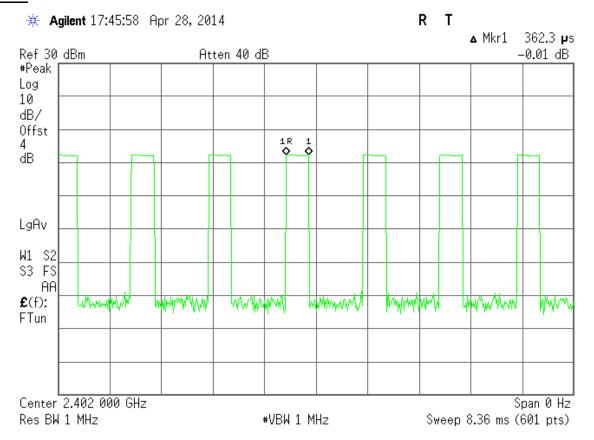
DH 5

2.867* (1600/6)/79 * 31.6 = 305.81(ms)

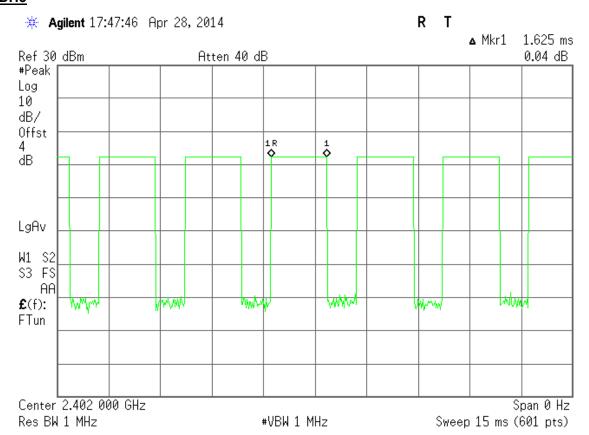
Pulse Time	Total of Dwell	Period Time	Limit	Result
(ms)	(ms)	(s)	(ms)	
2.867	305.81	31.60	400	PASS



1M-DH1

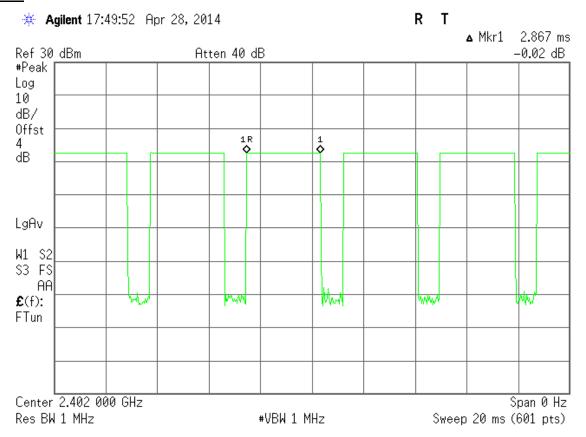


1M-DH3

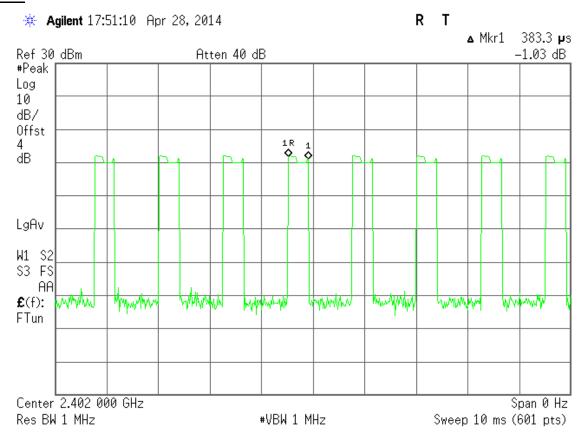




1M-DH5

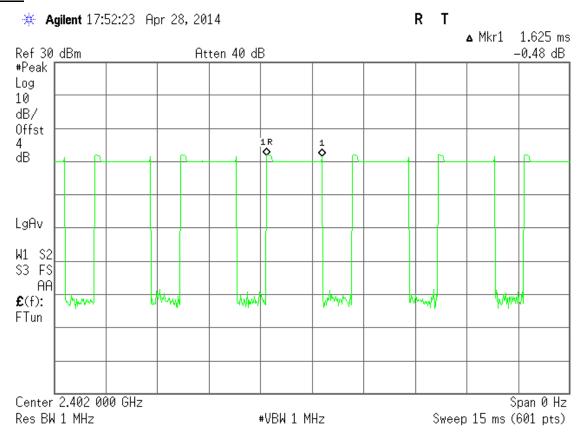


3M-DH1

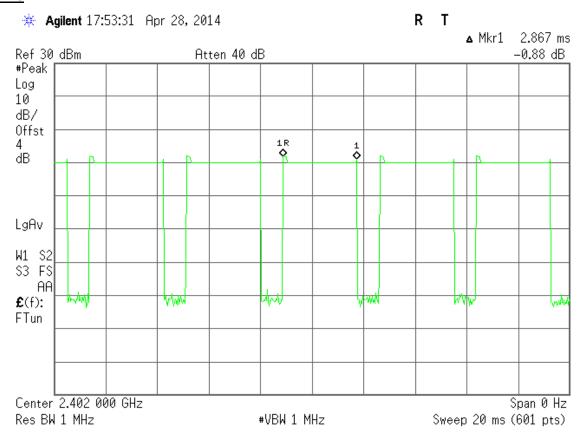




3M-DH3



3M-DH5



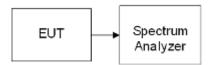
6.7 SPURIOUS EMISSION

Conducted 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.

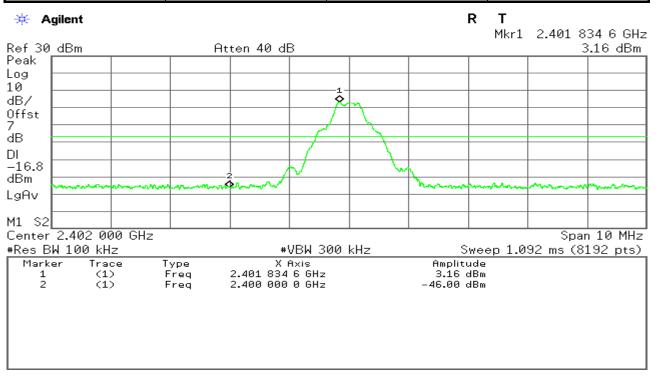
Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

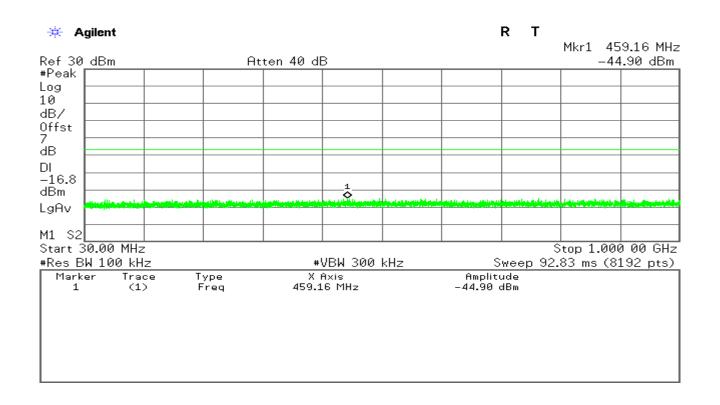
TEST RESULTS

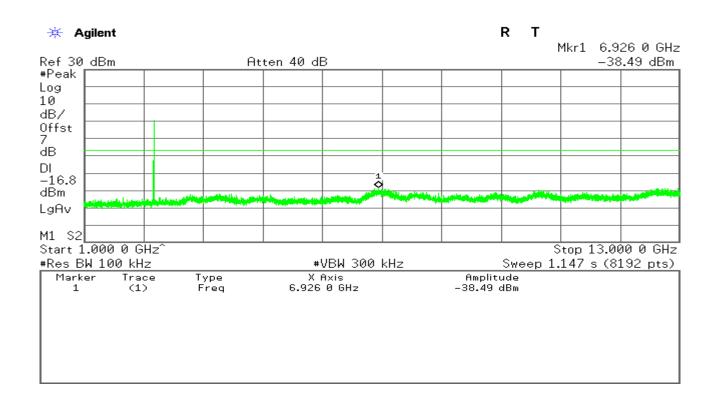
No non-compliance noted

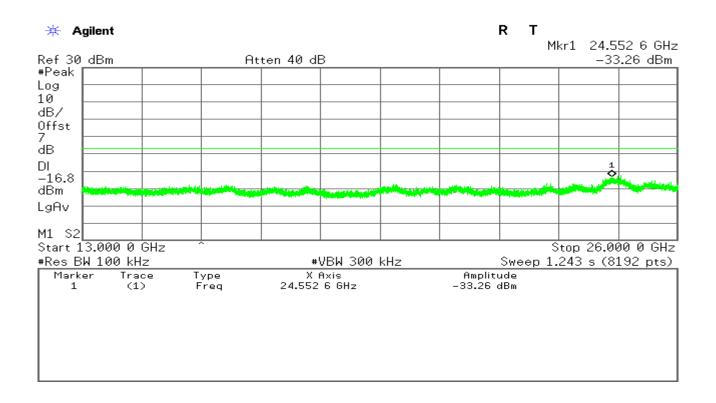
FCC ID: RQQHLT-D350 Date of Issue :May 16, 2014

Operation Mode:	1 Mbps	Test Date:	May 10, 2014
Test Channel:	00	Tested by:	Blent.Wang
Humidity:	52 % RH	Temperature:	24°C



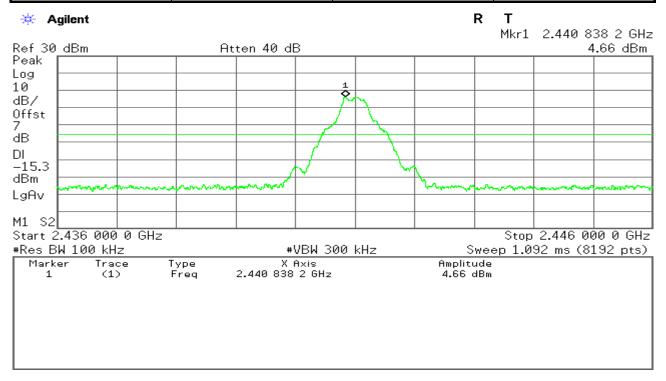


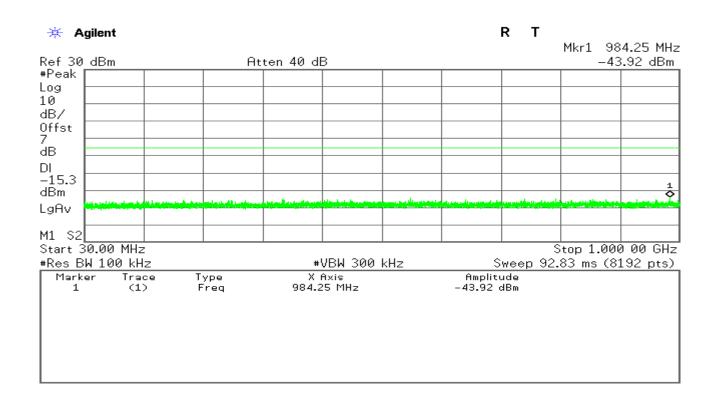


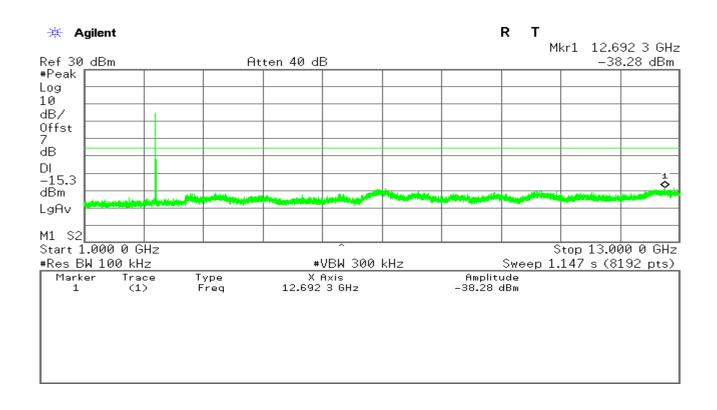


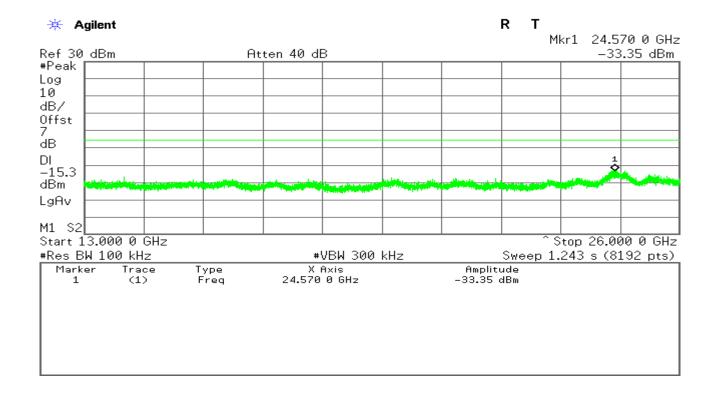
FCC ID: RQQHLT-D350 Date of Issue :May 16, 2014

Operation Mode:	1 Mbps	Test Date:	May 10, 2014
Test Channel:	39	Tested by:	Blent.Wang
Humidity:	52 % RH	Temperature:	24°C

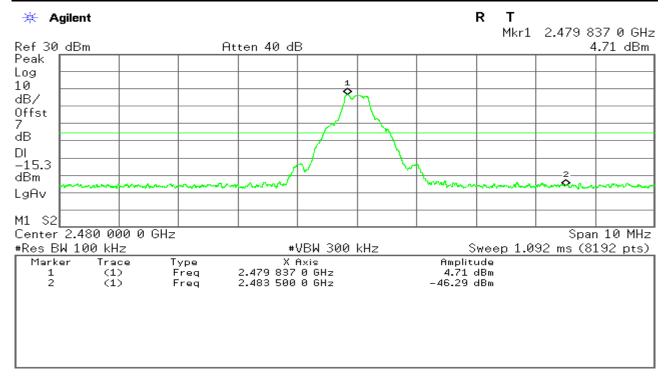


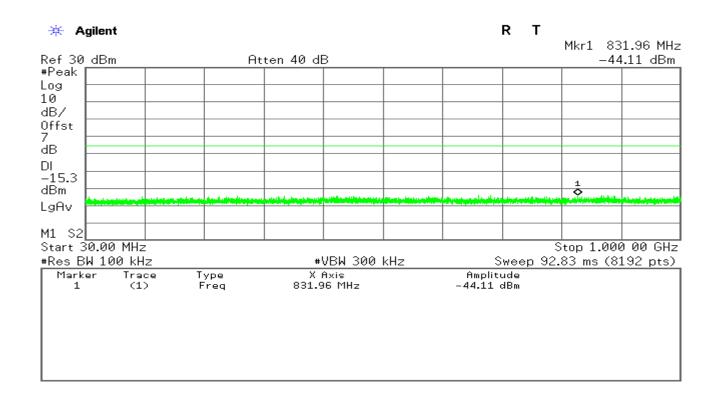




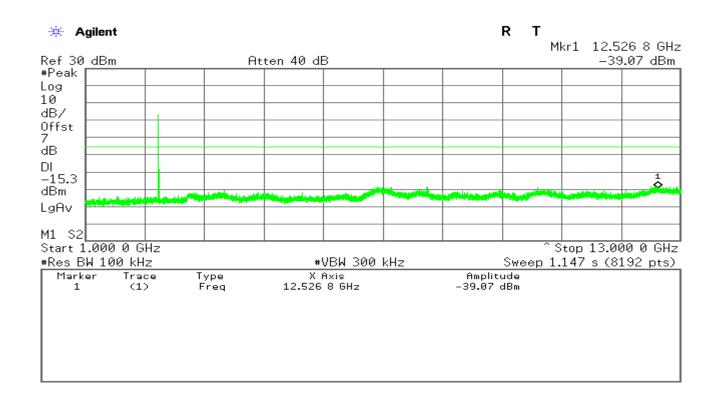


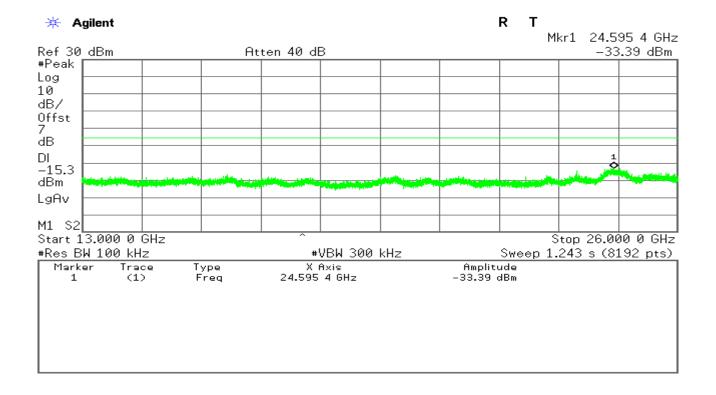
Operation Mode:	1 Mbps	Test Date:	May 10, 2014	
Test Channel:	78	Tested by:	Blent.Wang	
Humidity:	52 % RH	Temperature:	24°C	



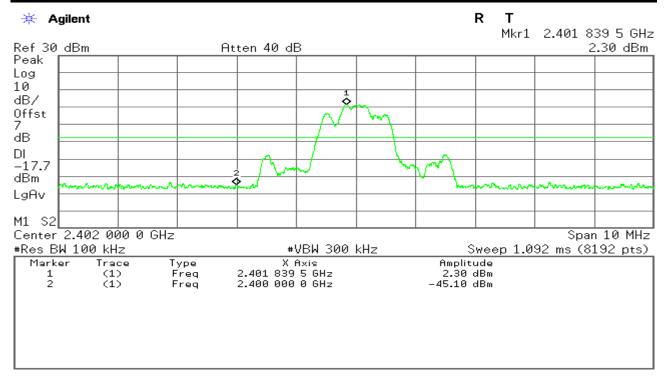


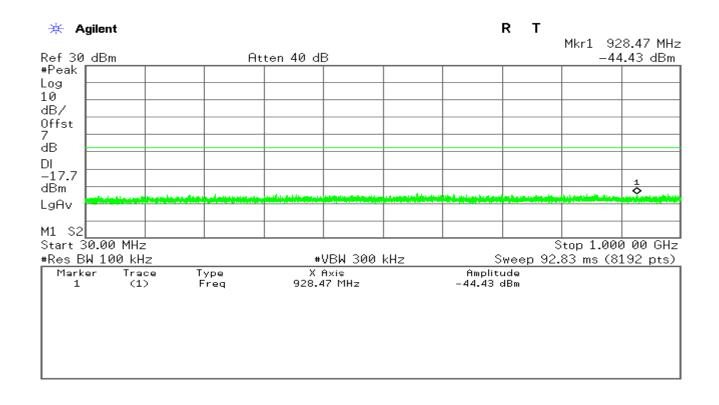
Date of Issue :May 16, 2014



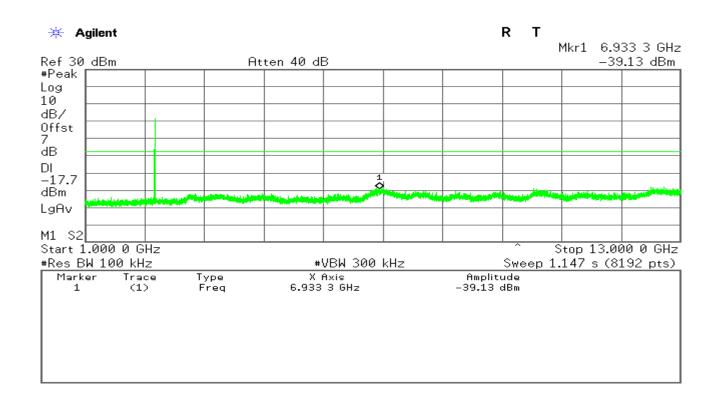


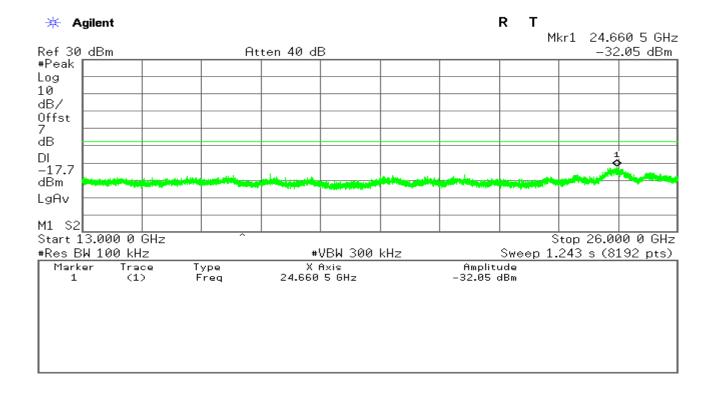
Operation Mode:	3 Mbps	Test Date:	May 10, 2014	
Test Channel:	00	Tested by:	Blent.Wang	
Humidity:	52 % RH	Temperature:	24°C	



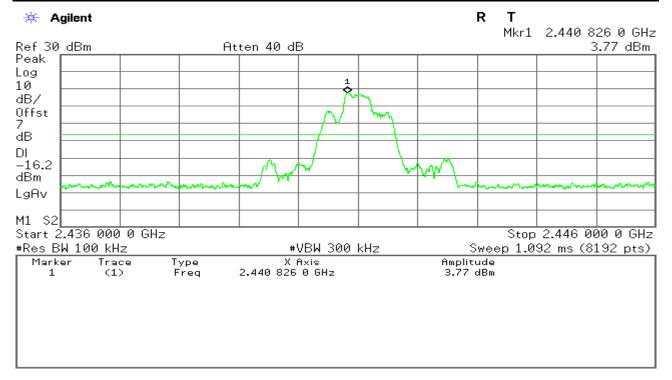


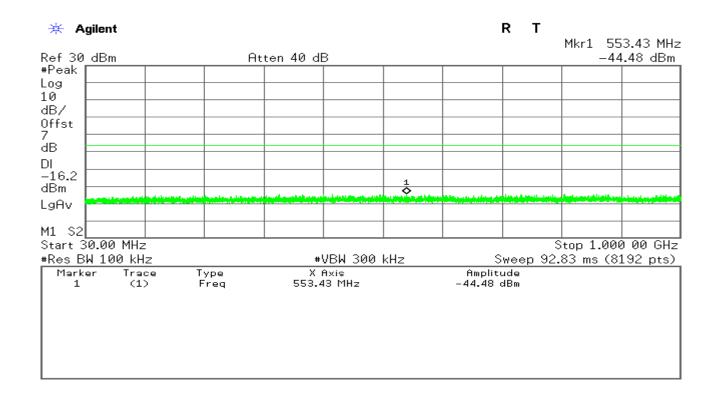
Date of Issue :May 16, 2014

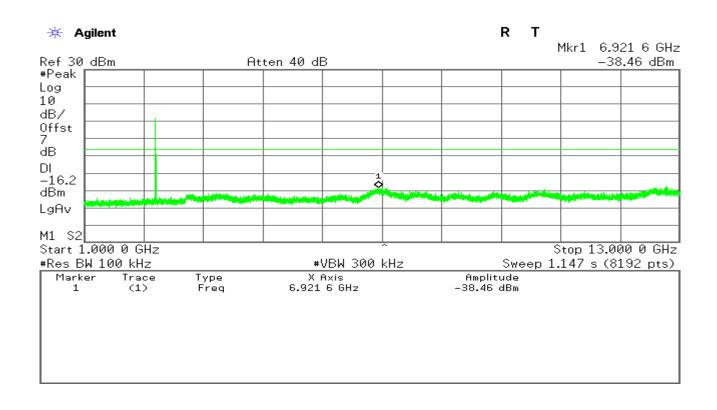


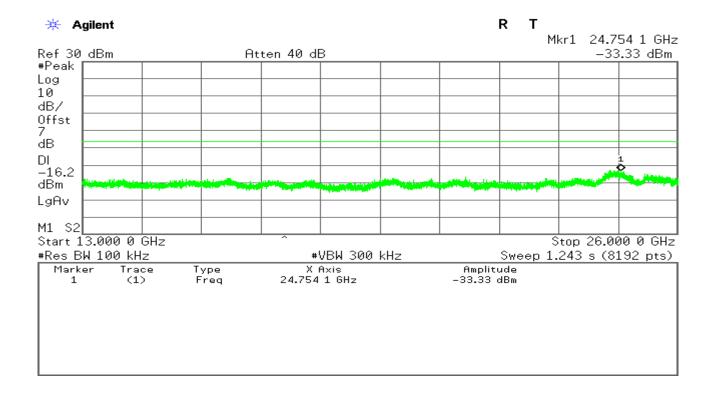


Operation Mode:	3 Mbps	Test Date:	May 10, 2014
Test Channel:	39	Tested by:	Blent.Wang
Humidity:	52 % RH	Temperature:	24°C

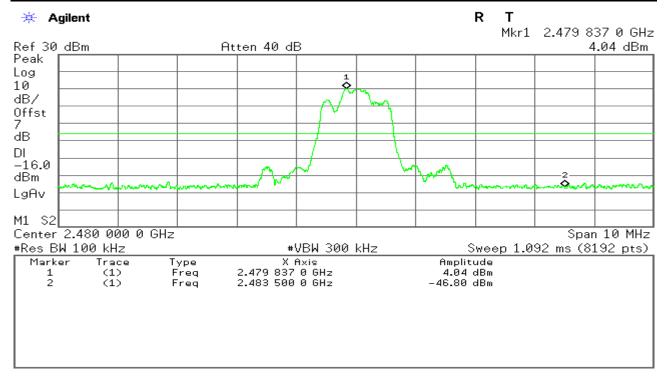


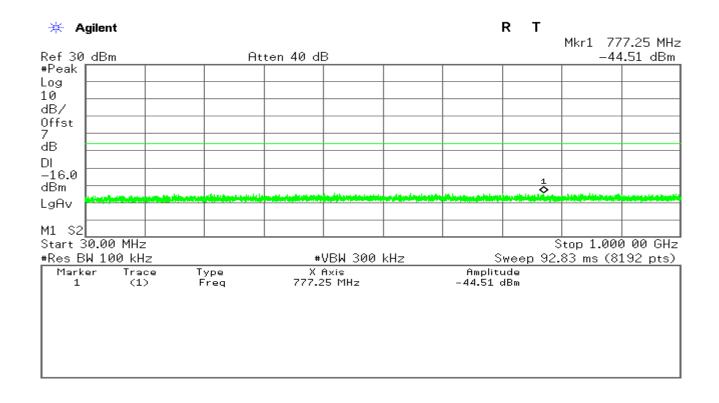




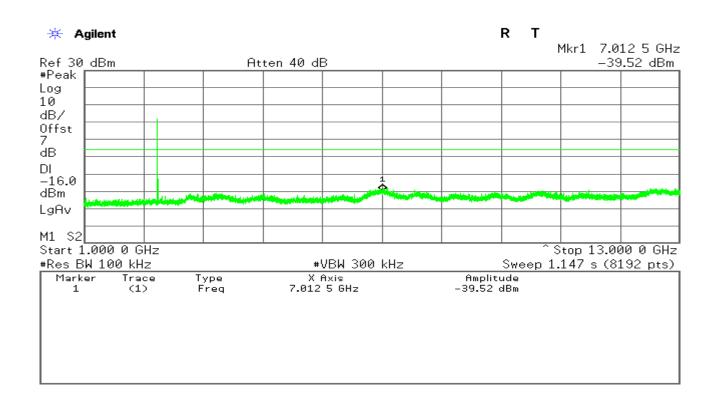


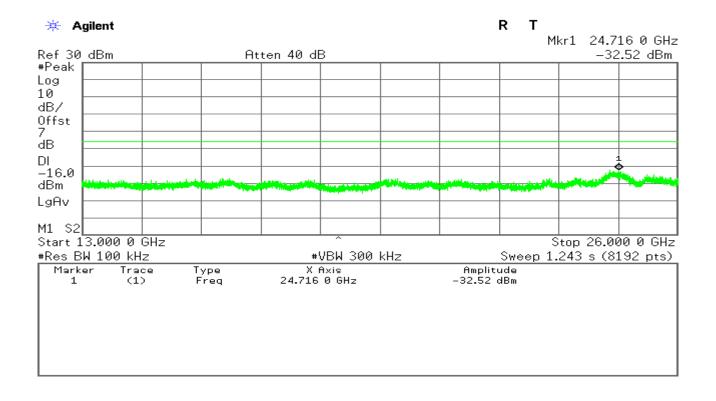
Operation Mode:	3 Mbps	Test Date:	May 10, 2014
Test Channel:	78	Tested by:	Blent.Wang
Humidity:	52 % RH	Temperature:	24°C





Date of Issue :May 16, 2014





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

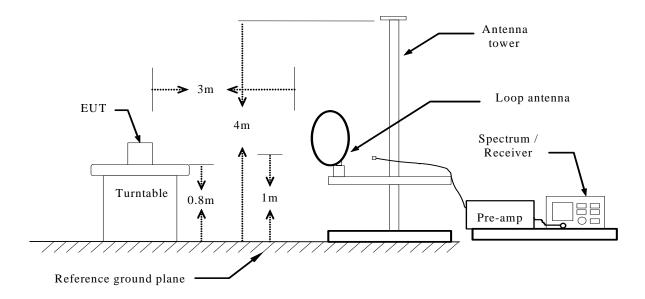
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of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

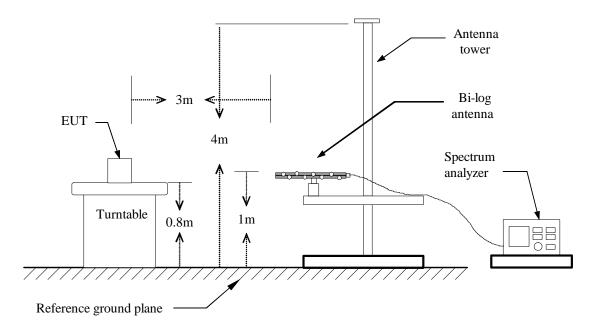
Test Configuration

Below 30MHz

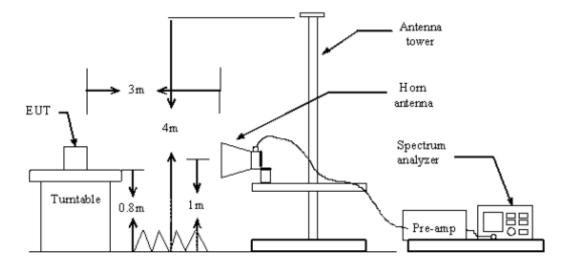


Date of Issue :May 16, 2014

Below 1 GHz



Above 1 GHz



FCC ID: RQQHLT-D350

Date of Issue :May 16, 2014

TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 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

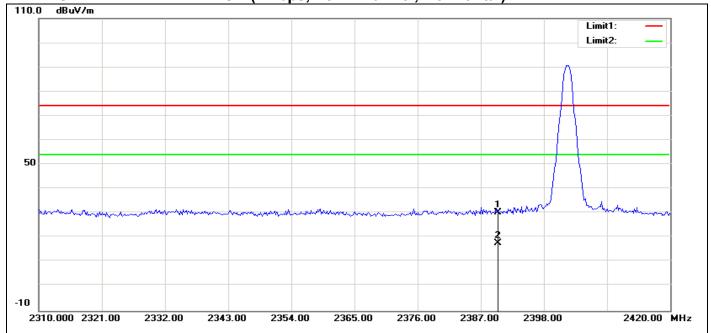
Above 1GHz:

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

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

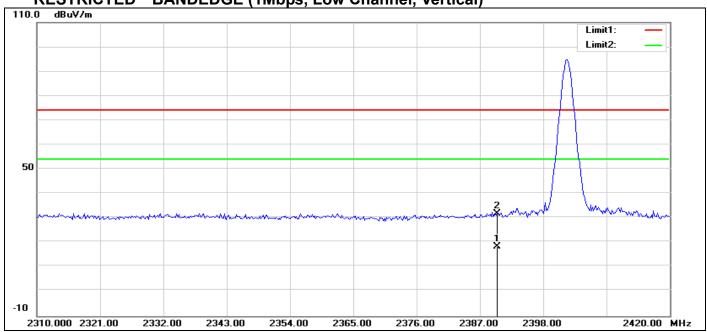
7. Repeat above procedures until the measurements for all frequencies are complete.

RESTRICTED BANDEDGE (1Mbps, Low Channel, Horizontal)



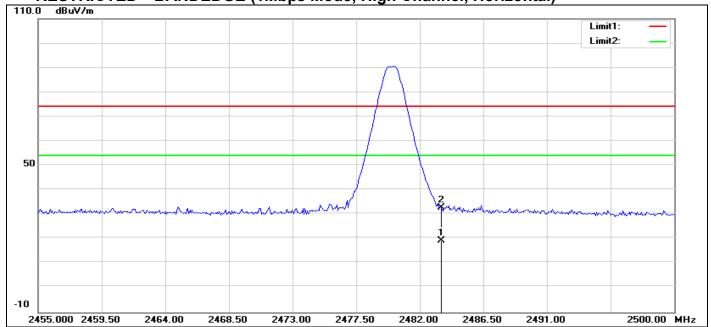
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2390.000	44.49	-14.28	30.21	74.00	-43.79	100	354	peak
2	2390.000	32.15	-14.29	17.86	54.00	-36.14	100	352	AVG

RESTRICTED BANDEDGE (1Mbps, Low Channel, Vertical)



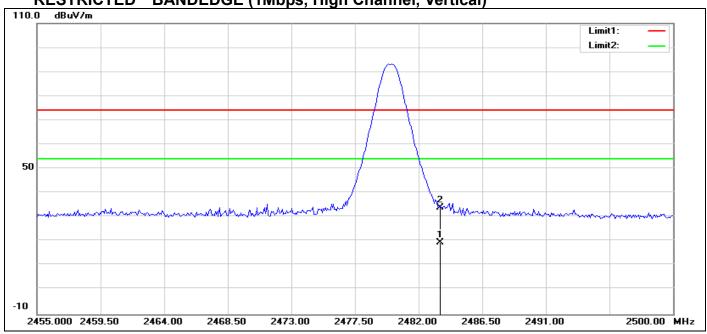
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2390.000	32.57	-14.28	18.29	54.00	-35.71	100	116	AVG
2	2390.000	46.17	-14.28	31.89	74.00	-42.11	100	116	peak

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



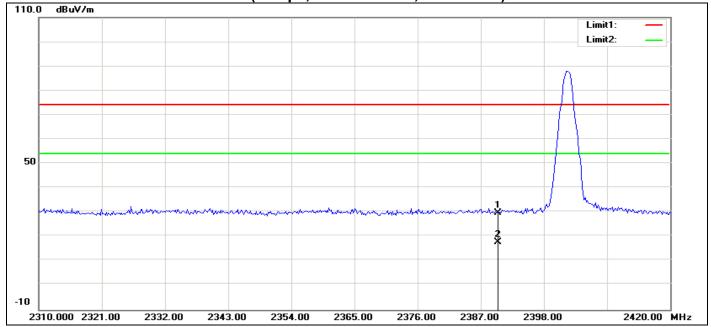
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	32.86	-13.65	19.21	54.00	-34.79	100	200	AVG
2	2483.500	46.43	-13.65	32.78	74.00	-41.22	100	200	peak

RESTRICTED BANDEDGE (1Mbps, High Channel, Vertical)



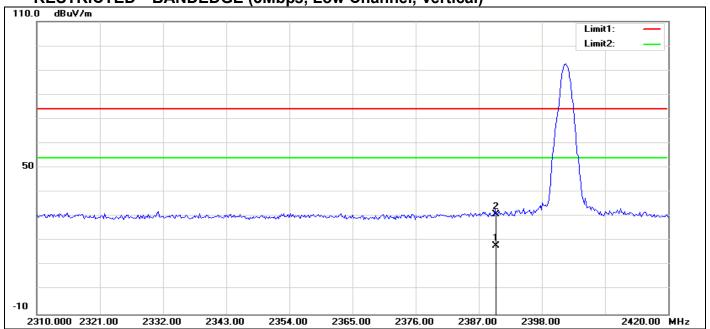
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	33.14	-13.65	19.49	54.00	-34.51	100	275	AVG
2	2483.500	47.51	-13.65	33.86	74.00	-40.14	100	275	peak

RESTRICTED BANDEDGE (3Mbps, Low Channel, Horizontal)



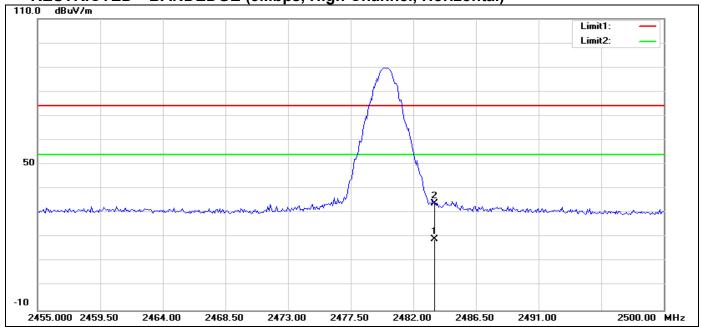
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2390.000	44.13	-14.28	29.85	74.00	-44.15	100	270	peak
2	2390.000	32.01	-14.29	17.72	54.00	-36.28	100	270	AVG

RESTRICTED BANDEDGE (3Mbps, Low Channel, Vertical)



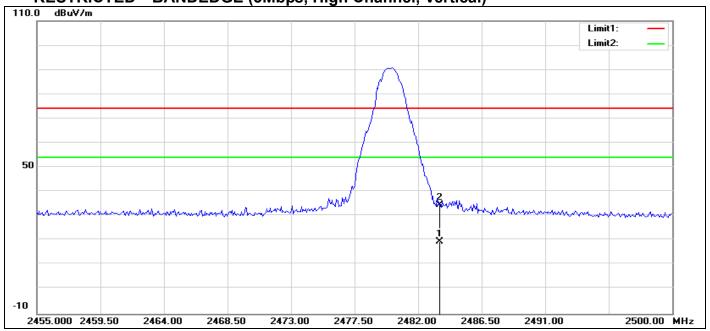
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2390.000	32.42	-14.28	18.14	54.00	-35.86	100	277	AVG
2	2390.000	45.27	-14.28	30.99	74.00	-43.01	100	277	peak

RESTRICTED BANDEDGE (3Mbps, High 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	2483.500	32.96	-13.65	19.31	54.00	-34.69	100	307	AVG
2	2483.500	47.63	-13.65	33.98	74.00	-40.02	100	307	peak

RESTRICTED BANDEDGE (3Mbps, High 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	2483.500	33.17	-13.65	19.52	54.00	-34.48	100	267	AVG
2	2483.500	48.11	-13.65	34.46	74.00	-39.54	100	267	peak

TEST RESULT OF RADIATED EMISSION

30MHz-1GHz

Operation Mode: Test Date: May 7, 2014 1 Mbps

Test Channel: CH78 Tested by: Blent.Wang

25°C Temperature: **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	33.8800	22.29	15.70	37.99	40.00	-2.01	200	333	peak
2	122.1500	23.56	15.30	38.86	43.50	-4.64	200	100	peak
3	152.2200	20.25	13.52	33.77	43.50	-9.73	100	238	peak
4	207.5100	22.54	13.18	35.72	43.50	-7.78	100	82	peak
5	312.2700	26.99	14.98	41.97	46.00	-4.03	100	220	peak
6	935.9800	13.11	25.30	38.41	46.00	-7.59	200	123	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	32.9100	21.18	15.70	36.88	40.00	-3.12	176	0	peak
2	55.2200	23.79	8.28	32.07	40.00	-7.93	100	359	peak
3	88.2000	19.74	9.38	29.12	43.50	-14.38	100	132	peak
4	118.2700	21.87	14.82	36.69	43.50	-6.81	100	288	peak
5	286.0800	19.10	15.14	34.24	46.00	-11.76	200	0	peak
6	946.6500	14.49	25.66	40.15	46.00	-5.85	100	159	peak

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.

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Above 1 GHz

Operation Mode: 1 Mbps **Test Date:** May 7, 2014 **Test Channel:** CH00 Tested by: Blent.Wang Temperature: 25°C **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4814.103	V	43.63	-8.00	35.63	74.00	-38.37	PEAK
7211.538	V	41.79	-0.59	41.20	74.00	-32.80	PEAK
4814.103	Н	43.34	-8.00	35.34	74.00	-38.66	PEAK
7211.538	Н	41.76	-0.59	41.17	74.00	-32.83	PEAK

Operation Mode: Test Date: May 7, 2014 1 Mbps **Test Channel:** CH39 Tested by: Blent.Wang 25°C Temperature: **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4868.590	V	68.10	-7.72	60.38	74.00	-13.62	PEAK
7320.513	V	53.28	-0.83	52.45	74.00	-21.55	PEAK
4868.590	Н	61.92	-7.72	54.20	74.00	-19.80	PEAK
7320.513	Н	60.90	-0.83	60.07	74.00	-13.93	PEAK

Operation Mode: Test Date: May 7, 2014 1 Mbps **Test Channel:** CH78 Tested by: Blent.Wang Ver. / Hor. Temperature: 25°C **Polarity:**

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4977.564	V	43.61	-7.59	36.02	74.00	-37.98	PEAK
7456.731	٧	41.84	-0.44	41.40	74.00	-32.60	PEAK
4950.320	Н	44.04	-7.58	36.46	74.00	-37.54	PEAK
7456.731	Ι	41.49	-0.44	41.05	74.00	-32.95	PEAK



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Operation Mode: 3 Mbps **Test Date:** May 7, 2014 **Test Channel:** CH00 Tested by: Blent.Wang

25°C Temperature: **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4814.103	V	41.60	-8.00	33.60	74.00	-40.40	PEAK
7238.782	V	42.78	-0.68	42.10	74.00	-31.90	PEAK
4814.103	Н	41.98	-8.00	33.98	74.00	-40.02	PEAK
7211.538	I	42.49	-0.59	41.90	74.00	-32.10	PEAK

Operation Mode: 3 Mbps **Test Date:** May 7, 2014 **Test Channel:** Tested by: CH39 Blent.Wang 25°C **Polarity:** Ver. / Hor. Temperature:

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4868.590	V	60.57	-7.72	52.85	74.00	-21.15	PEAK
7320.513	V	54.06	-0.83	53.23	74.00	-20.77	PEAK
4868.590	I	58.03	-7.72	50.31	74.00	-23.69	PEAK
7320.513	Н	61.66	-0.83	60.83	74.00	-13.17	PEAK

Operation Mode: 3 Mbps **Test Date:** May 7, 2014 **Test Channel:** Tested by: Blent.Wang CH78 25°C **Polarity:** Ver. / Hor. Temperature:

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4950.320	V	42.43	-7.58	34.85	74.00	-39.15	PEAK
7483.974	V	42.16	-0.34	41.82	74.00	-32.18	PEAK
4977.564	I	43.60	-7.59	36.01	74.00	-37.99	PEAK
7429.487	Н	41.72	-0.55	41.17	74.00	-32.83	PEAK

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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

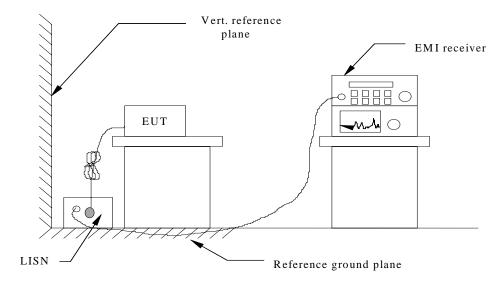
LIMIT

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:

Eroguenov Bongo (MUT)	Limits (dBμV)				
Frequency Range (MHz)	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

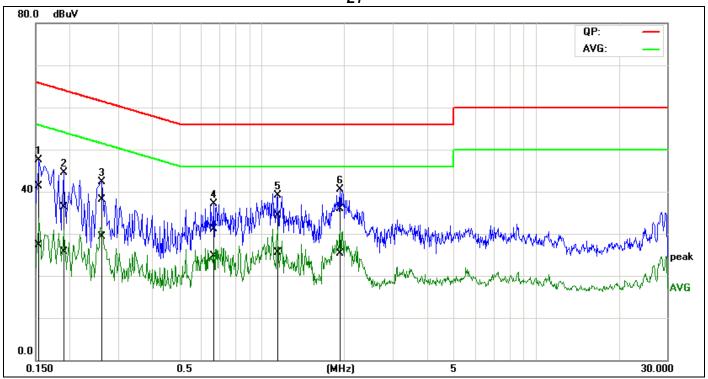
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.



Test Data

Model: D350	Humidity: 51% RH				
Temperature: 23°C	Test Results: Pass				
Tested by: Blent.Wang					

L1

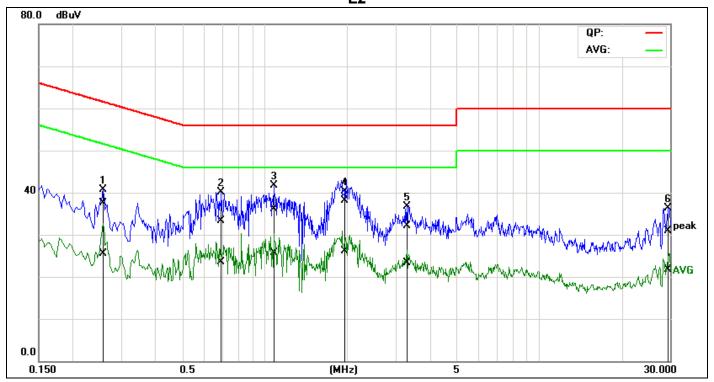


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1536	21.59	7.53	19.79	41.38	27.32	65.80	55.80	-24.42	-28.48	Pass
2*	0.1863	16.72	5.96	19.66	36.38	25.62	64.20	54.20	-27.82	-28.58	Pass
3	0.2616	18.41	9.73	19.65	38.06	29.38	61.38	51.38	-23.32	-22.00	Pass
4	0.6734	11.29	4.97	19.83	31.12	24.80	56.00	46.00	-24.88	-21.20	Pass
5	1.1338	14.44	5.70	19.85	34.29	25.55	56.00	46.00	-21.71	-20.45	Pass
6	1.9201	15.99	5.41	19.92	35.91	25.33	56.00	46.00	-20.09	-20.67	Pass



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L2



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.2589	17.78	5.82	19.68	37.46	25.50	61.47	51.47	-24.01	-25.97	Pass
2	0.6925	13.56	3.73	19.84	33.40	23.57	56.00	46.00	-22.60	-22.43	Pass
3*	1.0782	16.23	5.83	19.83	36.06	25.66	56.00	46.00	-19.94	-20.34	Pass
4	1.9444	18.21	6.15	19.96	38.17	26.11	56.00	46.00	-17.83	-19.89	Pass
5	3.2924	12.02	3.16	20.11	32.13	23.27	56.00	46.00	-23.87	-22.73	Pass
6	29.6373	9.42	0.29	21.41	30.83	21.70	60.00	50.00	-29.17	-28.30	Pass

Remark:

- 1. The measuring frequencies range between 0.15 MHz and 30 MHz.
- 2. The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.
- 3. "---" denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.
- 4.The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz.

END OF REPORT