



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8
CERTIFICATION TEST REPORT**

FOR

3G/UNLICENSED WIRELESS HUB

MODEL NUMBER: QWH-HUB-V1.0A

**FCC ID: J9C2NET
IC: 2723A-2NET**

REPORT NUMBER: 11U114802-4, Revision A

ISSUE DATE: DECEMBER 08, 2011

Prepared for
**QUALCOMM INCORPORATED
5775 MOREHOUSE DRIVE
SAN DEIGO, CA 92121-1714**

Prepared by
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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	12/02/2011	Initial Issue	F. Ibrahim
A	12/08/11	Revised BE data and added duty cycle correction factor	F. Ibrahim

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: QUALCOMM INCORPORATED
5775 MOREHOUSE DRIVE
SAN DEIGO, CA 92121-1714

EUT DESCRIPTION: 3G/UNLICENSED WIRELESS HUB

MODEL: QWH-HUB-V1.0A

SERIAL NUMBER: DEV D26001, CERT TEST 15

DATE TESTED: NOVEMBER 22-29, 2011

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	PASS
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	PASS
INDUSTRY CANADA RSS-GEN Issue 3	PASS

Compliance Certification Services (UL CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

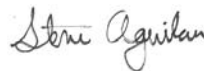
Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL CCS By:



FRANK IBRAHIM
EMC SUPERVISOR
UL CCS

Tested By:



STEVE AGUILAR
EMC TECHNICIAN
UL CCS

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable} \\ &\text{Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a 3G/ Unlicensed Wireless Hub with WLAN, Bluetooth and ANT +.

The radio module is manufactured by Qualcomm.

5.2. MAXIMUM OUTPUT FUNDAMENTAL FIELD STRENGTH

The transmitter has maximum output fundamental field strength as follows:

Frequency Range (MHz)	Mode	Peak E-field Strength (dBuV/m)	Avg E-field Strength (dBuV/m)	Distance (m)
2403 - 2480	ANT +	105.44	90.59	3.00

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal PIFA antenna, with a maximum gain of 3.8 dBi.

5.4. SOFTWARE AND FIRMWARE

The test utility software used during testing was Ant_set_cmax_power_ch0_winnxp_24xx.bat.
rev. 11-21-2011.

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power.

Radiated emissions below 1 GHz was performed with the EUT set to the channel with highest output power.

For the fundamental investigation, since the EUT is a portable device that has three orientations; X, Y and Z orientations have been investigated and the worst case was found to be at Z orientation.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop w/ power supply	HP Compaq	6910P	CND8143DGD	--

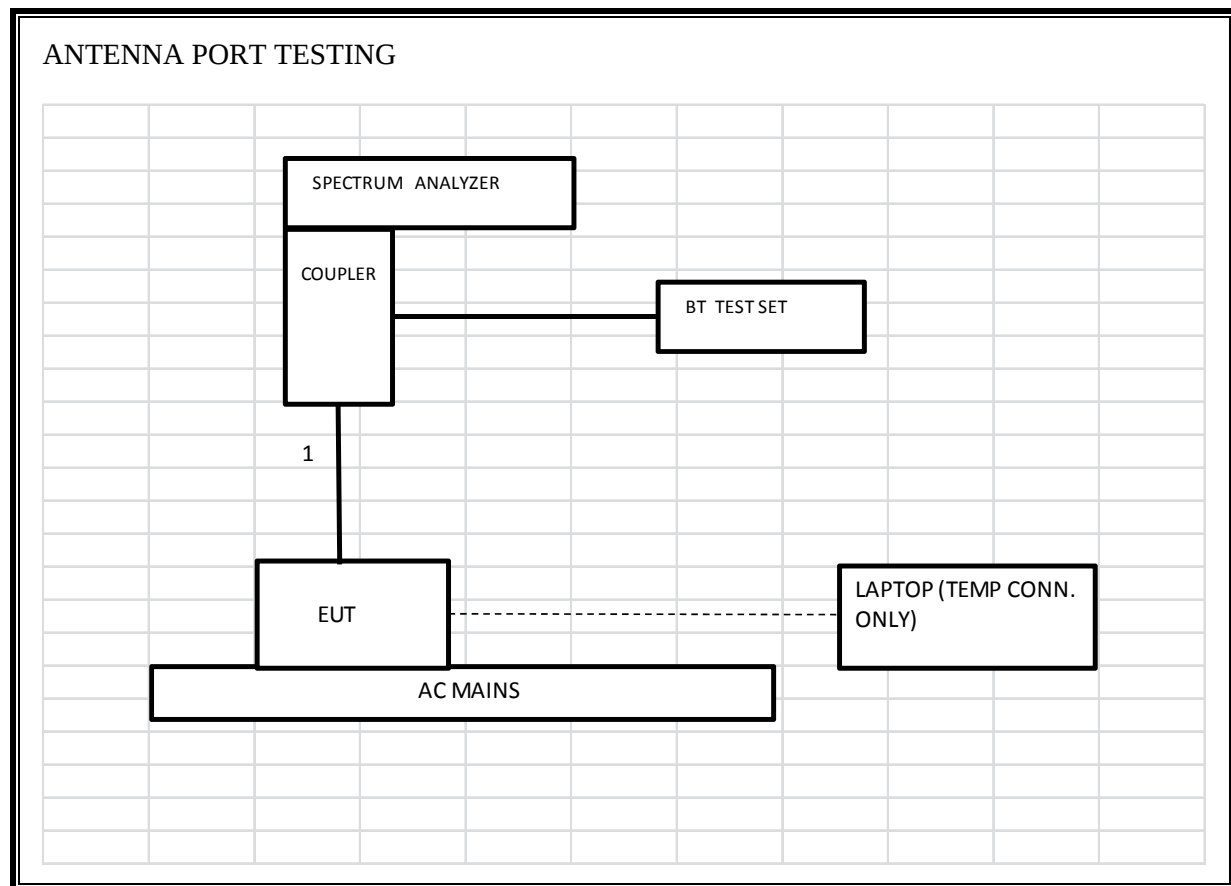
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	BT/ANT RF out	1	SMA	Shielded	60 cm	Testing only. Port not part of final product.
2	AC	2	AC PLUG (US)	Unshielded	1.8m	AC extension cord

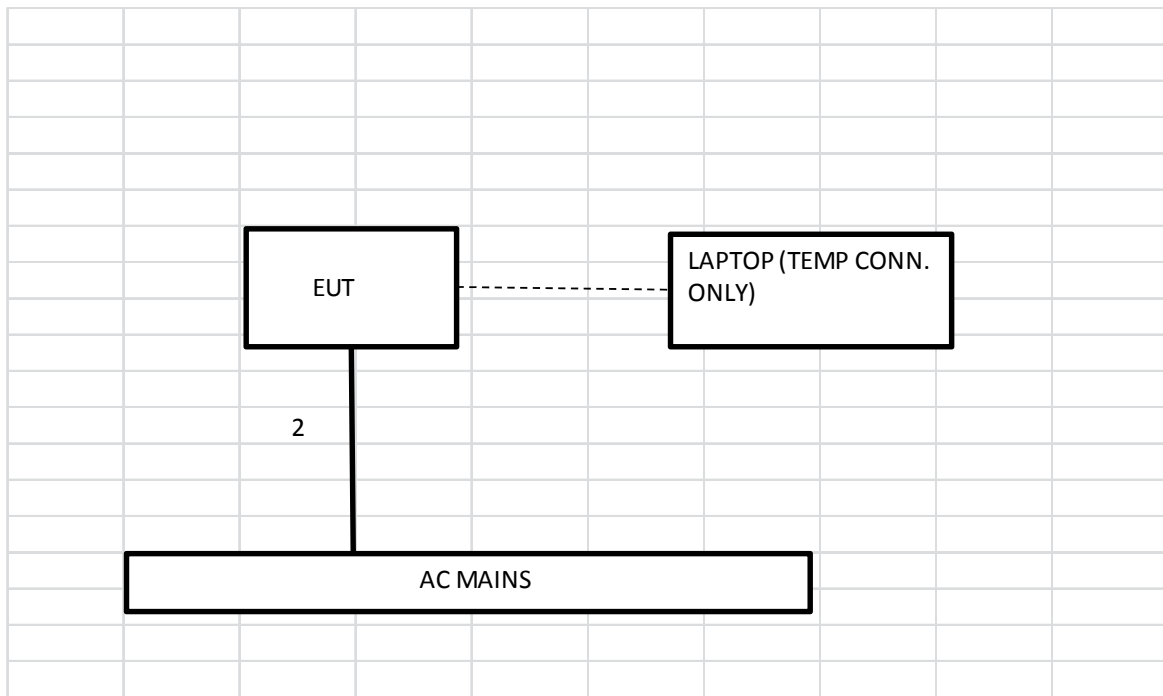
TEST SETUP

The EUT is set to transmit in ANT + mode by temporarily connecting a laptop via a USB cable to enter the appropriate command in the DOS CMD window.

SETUP DIAGRAM FOR TESTS



RADIATED EMISSIONS TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	8/15/2011	8/15/2012
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	1/19/2011	1/19/2012
Antenna, Horn, 18 GHz	EMCO	3115	C00783	6/29/2011	6/29/2012
Antenna, Horn, 18 GHz	EMCO	3115	C00945	10/6/2011	10/6/2012
Antenna, Horn, 26.5 GHz	ARA	SWH-28	C01015	7/28/2011	7/28/2012
Bi Directional coupler	RF Lambda	RFDC5M06G15	--	--	--
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	7/12/2011	7/12/2012
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	1/27/2011	1/27/2012
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	7/16/2011	7/16/2012
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	12/17/2010	12/17/2011

7. LIMITS AND RESULTS

7.1. 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

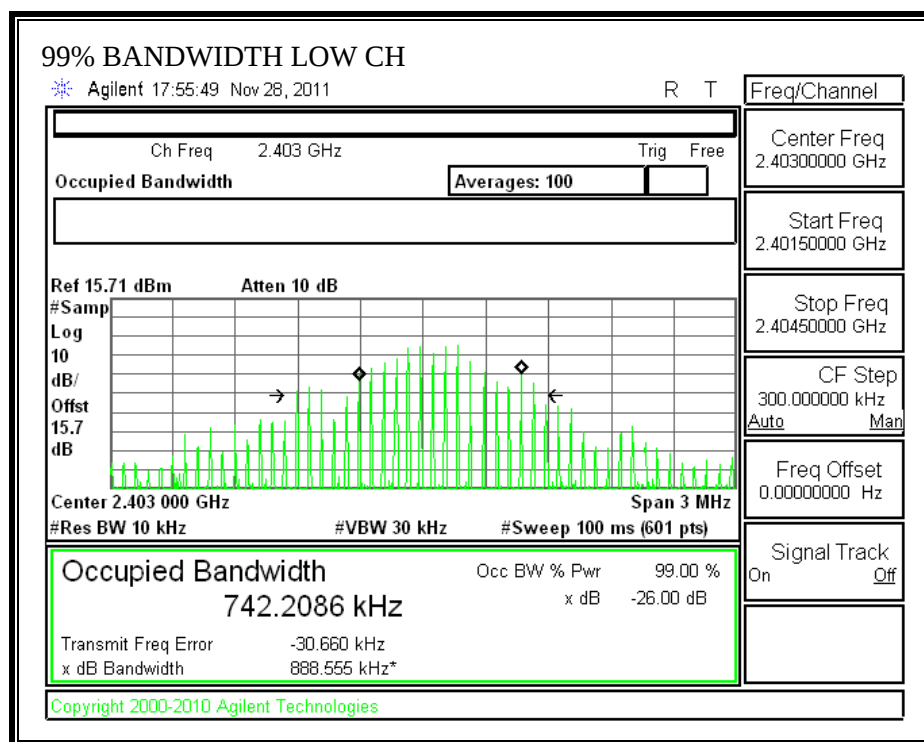
TEST PROCEDURE

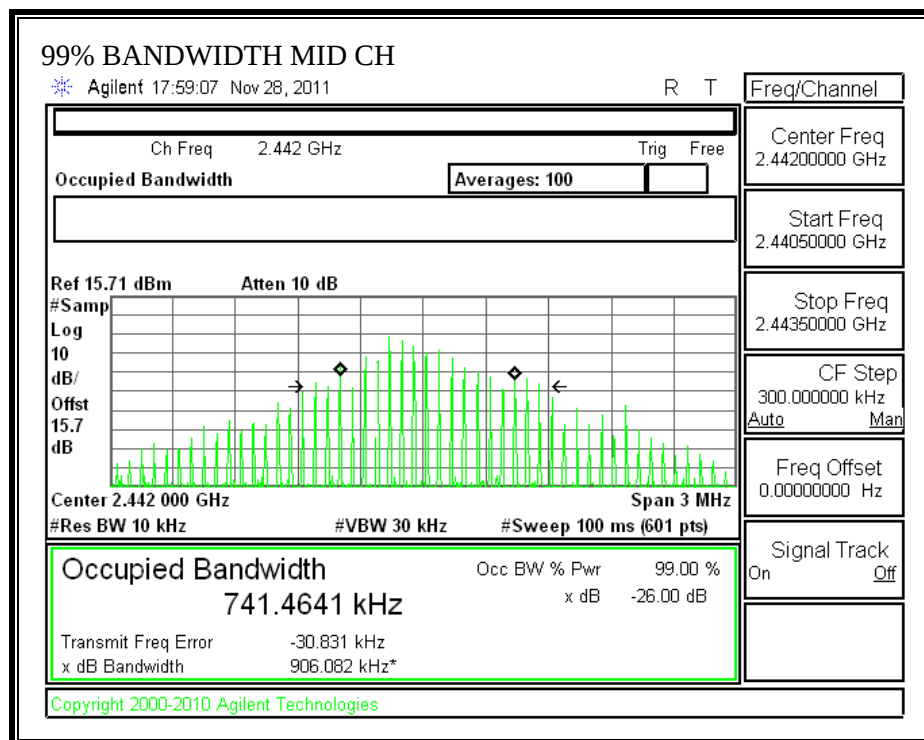
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

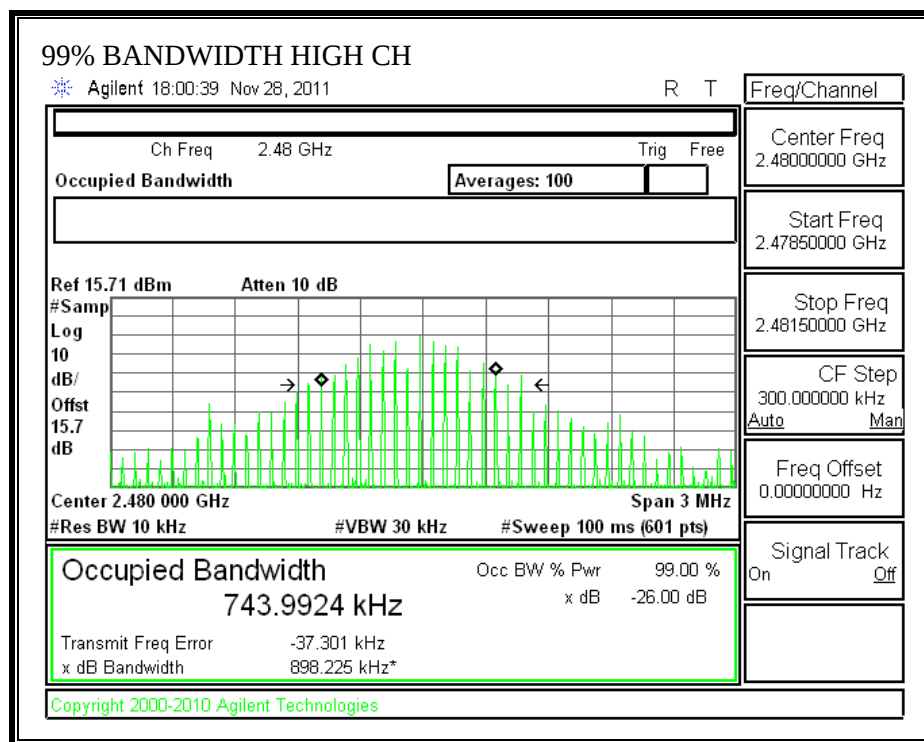
RESULTS

Channel	Frequency (MHz)	99% Bandwidth (KHz)
Low	2403	742.2086
Middle	2442	741.4641
High	2480	743.9924

99% BANDWIDTH







7.2. TRANSMITTER RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

LIMIT

IC RSS-210, A2.9
FCC 15.249

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz.

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/ meter)	Field strength of harmonics (microvolts/ meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

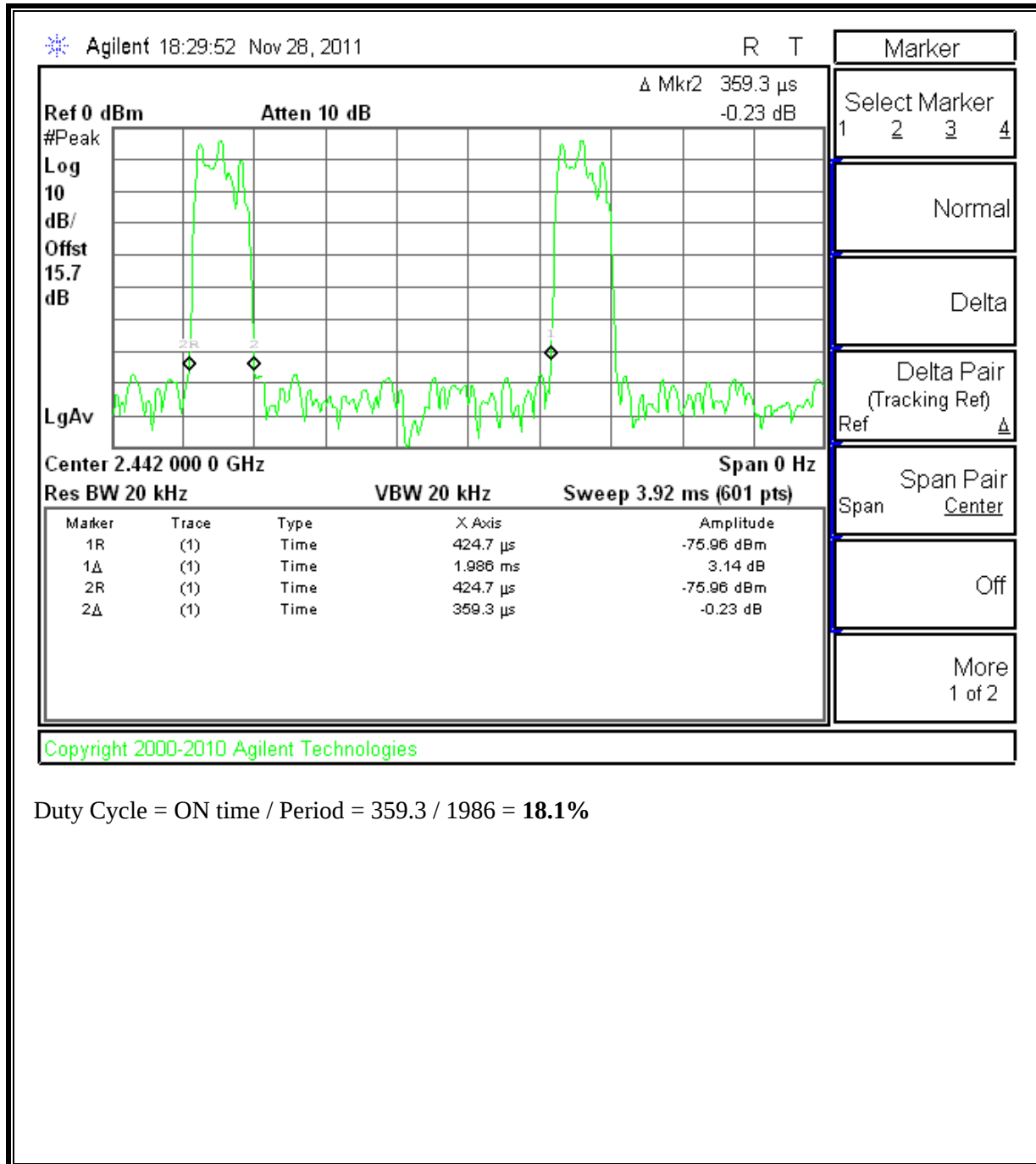
(e) As shown in Sec. 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Frequency (MHz)	Field strength (microvolts/meter)	Measure- ment dis- tance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

** 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., §§15.231 and 15.241.

RESULTS

7.2.1. DUTY CYCLE



7.2.2. FUNDAMENTAL FREQUENCY RADIATED EMISSION

Project #: 11U14082
Report #: 11U14082
Date & Time: Nov. 22, 2011
Test Engr: S. Aguilar

Company: Qualcomm
EUT Description: QWH-HUB-V1.0A Wireless Hub
Test Configuration: Z- Axis
Type of Test: FCC/IC
Mode of Operation: Transmitting : ANT + Mode

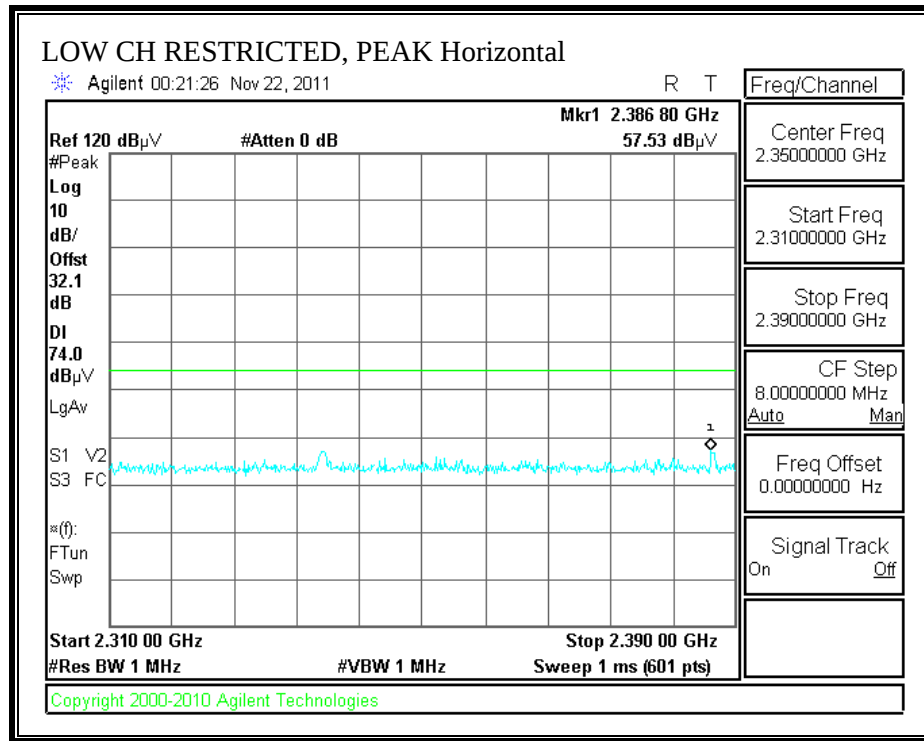
M% = ((t1+t2+t3+...)/T) * 66.83% = 18.10%

Av Reading = Pk Reading + 20*log(M%)
20 * log (M%) = -14.85

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Cross (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC_B	Av Limit FCC_B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
Low Channel														
2403.00	72.60	57.75	28.67	3.47	0.00	104.74	89.89	114.00	94.00	-9.26	-4.11	3mV	300.00	1.01
2403.00	73.00	58.15	28.67	3.47	0.00	105.14	90.29	114.00	94.00	-8.86	-3.71	3mH	45.90	1.02
Mid Channel														
2442.00	73.30	58.45	28.67	3.47	0.00	105.44	90.59	114.00	94.00	-8.56	-3.41	3mV	303.00	1.04
2442.00	73.30	58.45	28.67	3.47	0.00	105.44	90.59	114.00	94.00	-8.56	-3.41	3mH	37.40	1.01
High Channel														
2480.00	72.70	57.85	28.67	3.47	0.00	104.84	89.99	114.00	94.00	-9.16	-4.01	3mV	350.00	1.00
2480.00	72.80	57.95	28.67	3.47	0.00	104.94	90.09	114.00	94.00	-9.06	-3.91	3mH	357.40	1.00

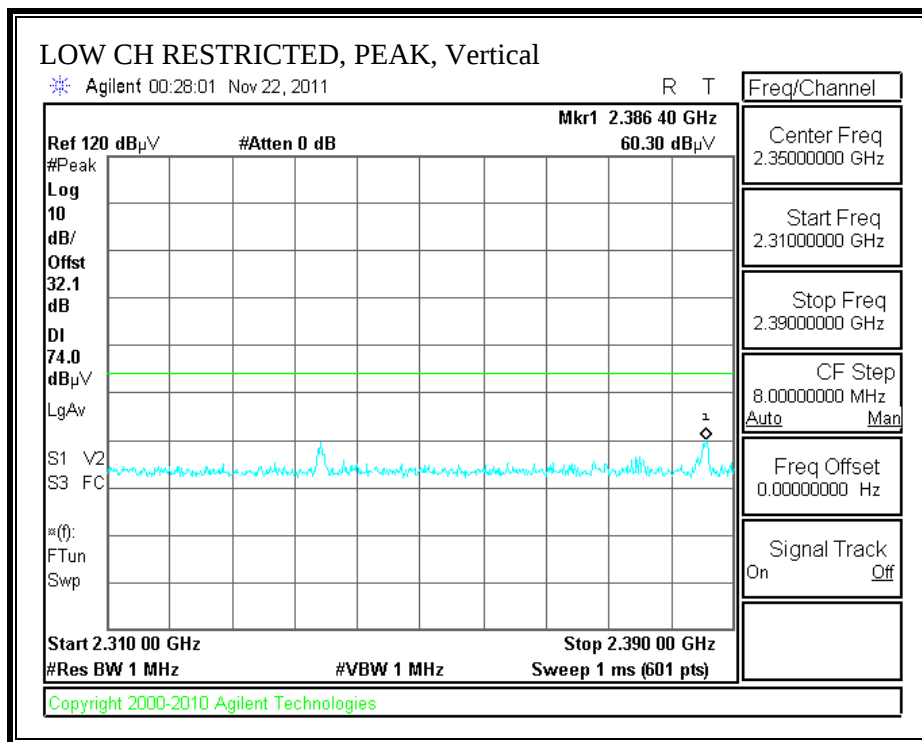
7.2.3. TRANSMITTER RESTRICTED BAND EDGES

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



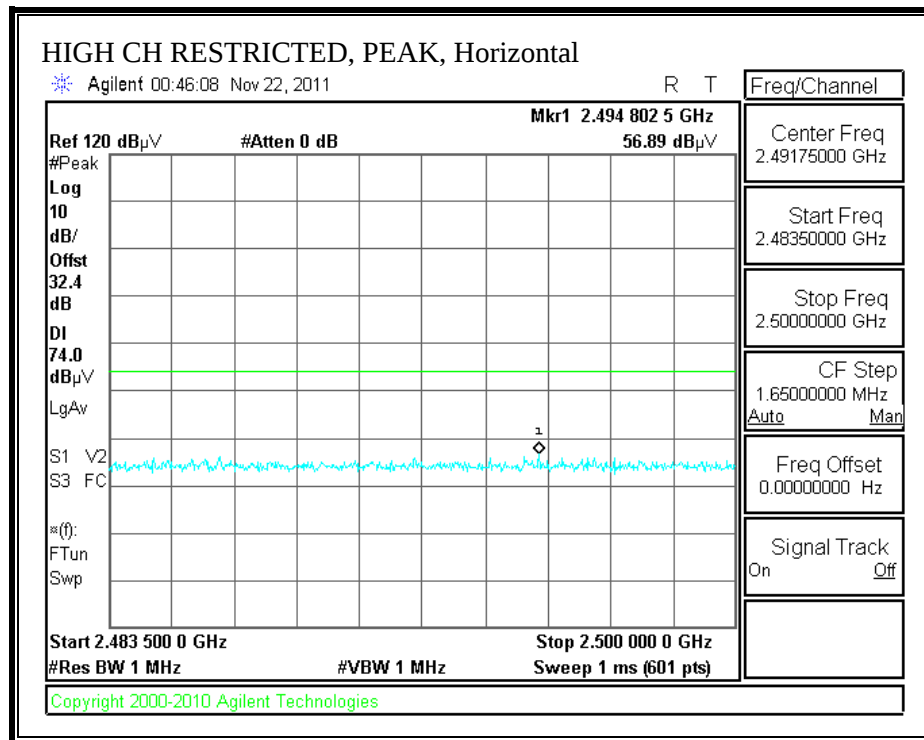
Note: Corrected Average Reading = 57.53 – 14.85 = 42.68
Passing Margin = 42.68 – 54 = -11.32 dB

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



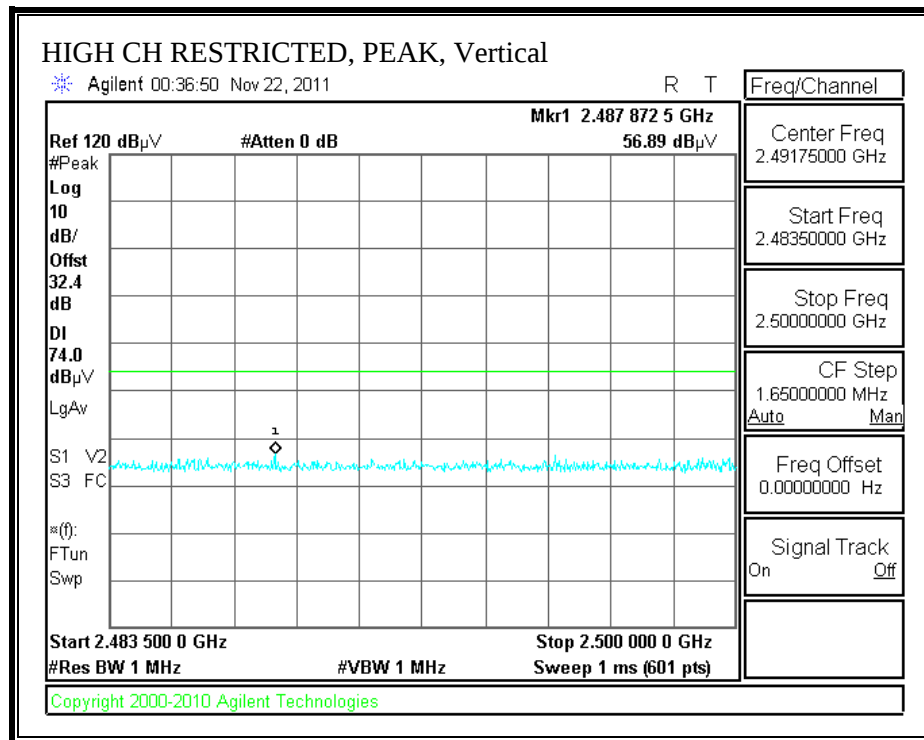
Note: Corrected Average Reading = 60.30 – 14.85 = 45.45
Passing Margin = 45.45 – 54 = -8.55 dB

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Note: Corrected Average Reading = 56.89 – 14.85 = 42.04
Passing Margin = 42.04 – 54 = -11.96 dB

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



Note: Corrected Average Reading = 56.89 – 14.85 = 42.04
Passing Margin = 42.04 – 54 = -11.96 dB

7.2.4. HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz

HARMONICS

Project #: 11U14082
Report #: 11U14082
Date & Time: Nov. 28, 2011
Test Engr: S.Aguilar

Company: Qualcomm
EUT Description: QWH-HUB-V1.0A Wireless Hub
Test Configuration : Z- Axis
Type of Test: FCC/IC Harmonics
Mode of Operation: Transmitting : ANT + Mode

M% = ((t1+t2+t3+...)/T) * 66.83% = 18.10%

Av Reading = Pk Reading + 20*log(M%)
20 * log (M%) = -14.85

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC_B	Av Limit FCC_B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
Low Channel														
4086.00	38.80	23.95	28.77	3.81	35.09	36.29	21.44	74.00	54.00	-37.71	-32.56	3mH	295.20	106.30
4086.00	37.78	22.94	28.77	3.81	35.09	35.27	20.43	74.00	54.00	-38.73	-33.57	3mV	2.40	133.90
12015.00	35.14	20.30	28.77	3.81	35.09	32.63	17.79	74.00	54.00	-41.37	-36.21	3mH	357.70	100.10
12015.00	34.30	19.45	28.77	3.81	35.09	31.79	16.94	74.00	54.00	-42.22	-37.06	3mV	328.20	189.00
Mid Channel														
4884.00	37.41	22.56	28.77	3.81	35.09	34.90	20.05	74.00	54.00	-39.10	-33.95	3mH	275.00	176.00
4884.00	37.48	22.63	28.77	3.81	35.09	34.97	20.12	74.00	54.00	-39.03	-33.88	3mV	102.30	198.60
12210.00	34.33	19.49	28.77	3.81	35.09	31.82	16.98	74.00	54.00	-42.18	-37.02	3mH	304.20	196.20
12210.00	33.36	18.52	28.77	3.81	35.09	30.85	16.01	74.00	54.00	-43.15	-37.99	3mV	64.80	120.20
High Channel														
4960.00	37.52	22.68	28.77	3.81	35.09	35.01	20.17	74.00	54.00	-38.99	-33.83	3mH	2.20	102.90
4960.00	37.89	23.04	28.77	3.81	35.09	35.38	20.53	74.00	54.00	-38.62	-33.47	3mV	314.20	101.70
7440.00	37.19	22.35	28.77	3.81	35.09	34.68	19.84	74.00	54.00	-39.32	-34.16	3mH	308.60	181.30
7440.00	36.93	22.08	28.77	3.81	35.09	34.42	19.57	74.00	54.00	-39.58	-34.43	3mV	284.20	187.40
12400.00	33.87	19.03	28.77	3.81	35.09	31.36	16.52	74.00	54.00	-42.64	-37.48	3mH	335.90	162.80
12400.00	33.69	18.85	28.77	3.81	35.09	31.18	16.34	74.00	54.00	-42.82	-37.66	3mV	17.30	165.50

No other emissions were detected above the noise floor.

SPURIOUS

Project #: 11U14082
Report #: 11U14082
Date & Time: Nov. 28, 2011
Test Engr: S. Aguilar

Company: Qualcomm
EUT Description: QWH-HUB-V1.0A Wireless Hub
Test Configuration: Z- Axis Spurious
Type of Test: FCC/IC
Mode of Operation: Transmitting : ANT + Mode

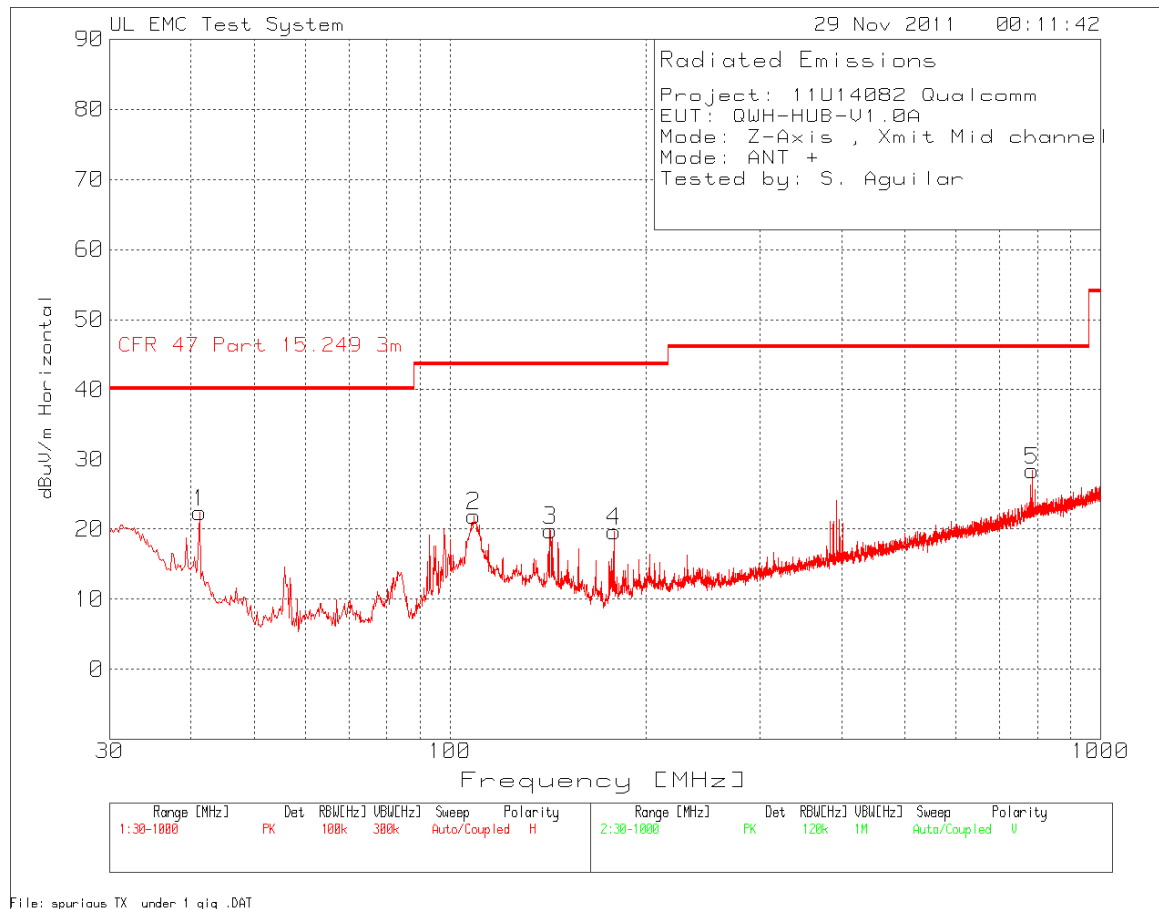
Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC_B	Av Limit FCC_B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)
Low Channel												
3190.00	40.45		28.77	3.81	35.09	37.94		74.00	54.00	-36.06	-16.06	3mH
3190.00	38.61		28.77	3.81	35.09	36.10		74.00	54.00	-37.90	-17.90	3mV
13954.00	32.02		28.77	3.81	35.09	29.51		74.00	54.00	-44.49	-24.49	3mH
13954.00	34.70		28.77	3.81	35.09	32.19		74.00	54.00	-41.81	-21.81	3mV
Mid Channel												
5475.00	39.51		28.77	3.81	35.09	37.00		74.00	54.00	-37.00	-17.00	3mH
5493.00	37.36		28.77	3.81	35.09	34.85		74.00	54.00	-39.15	-19.15	3mV
15525.00	36.09		28.77	3.81	35.09	33.58		74.00	54.00	-40.42	-20.42	3mH
15525.00	34.76		28.77	3.81	35.09	32.25		74.00	54.00	-41.75	-21.75	3mV
High Channel												
5120.00	39.17		28.77	3.81	35.09	36.66		74.00	54.00	-37.34	-17.34	3mH
5093.00	38.13		28.77	3.81	35.09	35.62		74.00	54.00	-38.38	-18.38	3mV
15573.00	35.53		28.77	3.81	35.09	33.02		74.00	54.00	-40.98	-20.98	3mH
15413.00	34.86		28.77	3.81	35.09	32.35		74.00	54.00	-41.65	-21.65	3mV

No other emissions were detected above the noise floor.

7.2.5. SPURIOUS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (HORIZONTAL)

HORIZONTAL PLOT

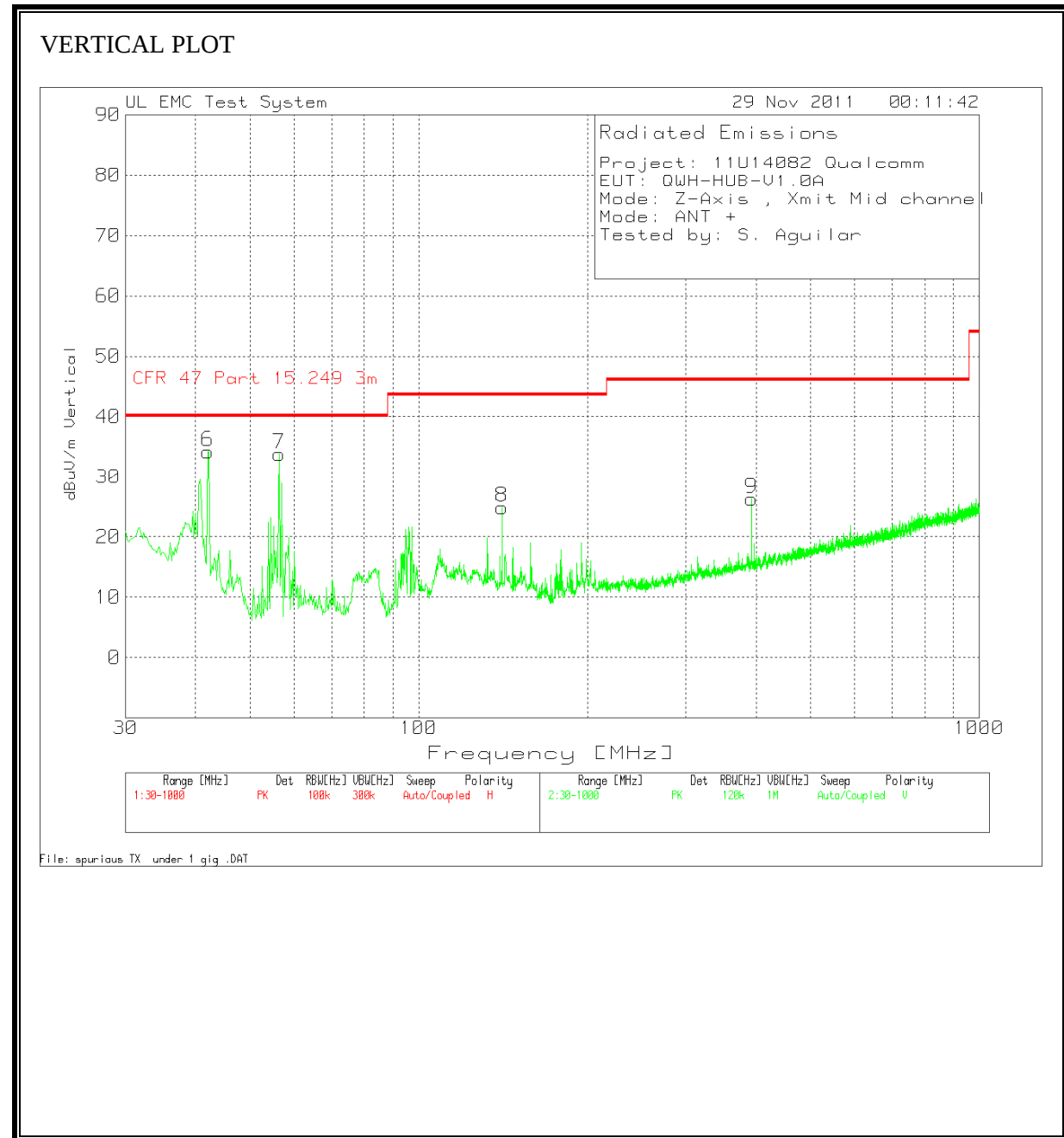


HORIZONTAL DATA

Project: 11U14082 Qualcomm									
EUT:	QWH-HUB-V1.0A	CERT TEST 15							
Mode: Z-Axis , Xmit Mid channel									
Mode: ANT +									
Tested by: S. Aguilar									
Range 130 - 1000MHz									
Test Frequency	Meter Reading	Detector	Amp [dB]	Bilog Factors [dB]	dBuV/m	CFR 47 Part 15.249 3m	Margin	Height [cm]	Polarity
41.243	38.23	PK	-29.2	13.3	22.33	40	-17.67	300	Horz
108.701	38.69	PK	-28.5	11.7	21.89	43.5	-21.61	300	Horz
142.8177	34.91	PK	-28.1	13	19.81	43.5	-23.69	200	Horz
178.6791	36.91	PK	-27.8	10.6	19.71	43.5	-23.79	100	Horz
785.6075	33.12	PK	-25.5	20.8	28.42	46	-17.58	100	Horz
PK - Peak detector									
QP - Quasi-Peak detector									

Note: the limit in this table is QP limit.

SPURIOUS EMISSIONS 30 TO 1000 MHz (VERTICAL)



VERTICAL DATA

Project: 11U14082 Qualcomm									
EUT: QWH-HUB-V1.0A		CERT TEST 15							
Mode: Z-Axis , Xmit Mid channel									
Mode: ANT +									
Tested by: S. Aguilar									
Range 2 30 - 1000MHz									
Test Frequency	Meter Reading	Detector	Amp [dB]	Bilog Factors [dB]	dBuV/m	CFR 47 Part 15.249 3m	Margin	Height [cm]	Polarity
42.0184	50.5	PK	-29.2	12.9	34.2	40	-5.8	100	Vert
56.3629	54.98	PK	-29	7.9	33.88	40	-6.12	100	Vert
140.8793	39.86	PK	-28.2	13.2	24.86	43.5	-18.64	100	Vert
392.6839	38.17	PK	-26.8	14.9	26.27	46	-19.73	100	Vert
PK - Peak detector									
QP - Quasi-Peak detector									

Note: the limit in this table is QP limit.

7.3. RECEIVER RADIATED EMISSION

TEST PROCEDURE

ANSI C63.4

LIMIT

IC RSS-210
FCC 15.249

Frequency (MHz)	Field strength (microvolts/meter)	Measure- ment dis- tance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

** 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., §§15.231 and 15.241.

RESULTS

7.3.1. SPURIOUS ABOVE 1 GHZ

ABOVE 1 GHZ

Project #: 11U14082
Report #: 11U14082
Date & Time: Nov. 29, 2011
Test Engr: S.Aguilar

Company: Qualcomm
EUT Description: QWH-HUB-V1.0A Wireless Hub
Test Configuration: Z- Axis
Type of Test: FCC/IC Spurious
Mode of Operation: RX : ANT + Mode

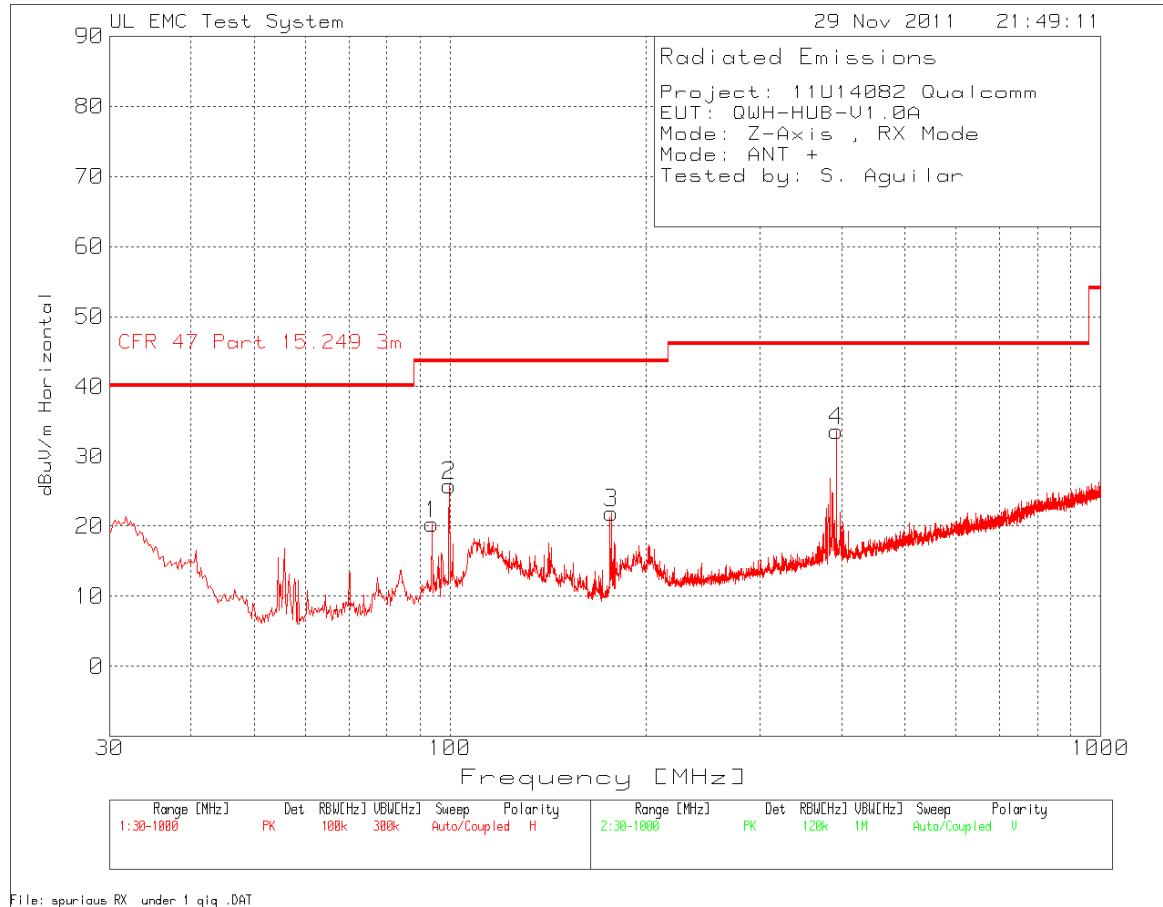
Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC_B	Av Limit FCC_B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)
Mid Channel												
4347.00	39.32		28.77	3.81	35.09	36.81		74.00	54.00	-37.19	-17.19	3mH
4533.00	39.81		28.77	3.81	35.09	37.30		74.00	54.00	-36.70	-16.70	3mV
7840.00	37.53		28.77	3.81	35.09	35.02		74.00	54.00	-38.98	-18.98	3mH
7387.00	37.90		28.77	3.81	35.09	35.39		74.00	54.00	-38.61	-18.61	3mV
11093.00	37.16		28.77	3.81	35.09	34.65		74.00	54.00	-39.35	-19.35	3mH
10613.00	35.94		28.77	3.81	35.09	33.43		74.00	54.00	-40.57	-20.57	3mV
16613.00	34.59		28.77	3.81	35.09	32.08		74.00	54.00	-41.92	-21.92	3mH
16080.00	35.17		28.77	3.81	35.09	32.66		74.00	54.00	-41.34	-21.34	3mV

No other emissions were detected above the noise floor.

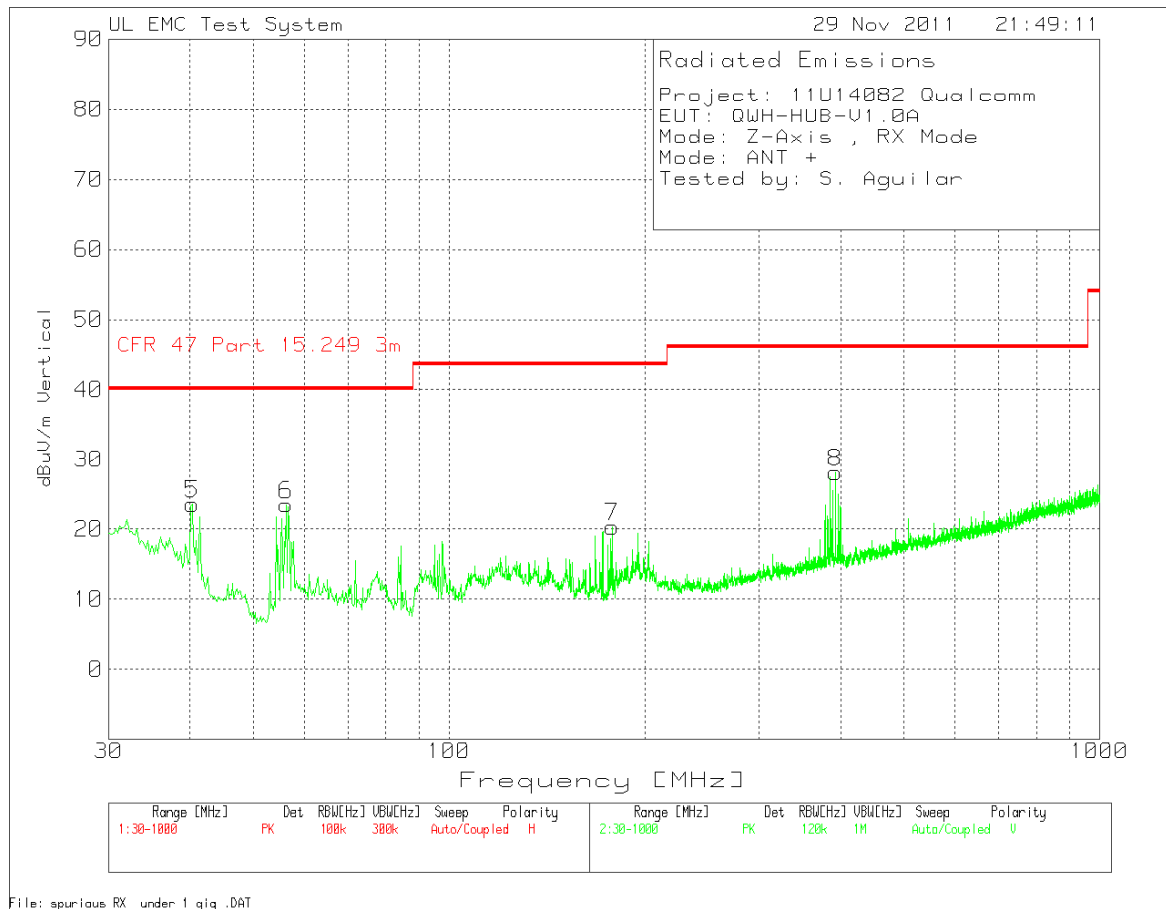
7.3.2. SPURIOUS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz

HORIZONTAL PLOT



VERTICAL PLOT



HORIZONTAL AND VERTICAL DATA

Project: 11U14082 Qualcomm

EUT: QWH-HUB-V1.0A

CERT TEST 15

Mode: Z-Axis , RX Mode

Mode: ANT +

Tested by: S. Aguilar

Range 130 - 1000MHz

Test Frequency	Meter Reading	Detector	Amp [dB]	Bilog Factors [dB]	dBuV/m	CFR 47 Part 15.249 3m	Margin	Height [cm]	Polarity
93.775	40.35	PK	-28.6	8.5	20.25	43.5	-23.25	200	Horz
99.7842	44.36	PK	-28.6	10	25.76	43.5	-17.74	400	Horz
177.1283	39.23	PK	-27.7	10.3	21.83	43.5	-21.67	300	Horz
392.6839	45.61	PK	-26.8	14.9	33.71	46	-12.29	100	Horz

Range 130 - 1000MHz

Test Frequency	Meter Reading	Detector	Amp [dB]	Bilog Factors [dB]	dBuV/m	CFR 47 Part 15.249 3m	Margin	Height [cm]	Polarity
40.2738	38.83	PK	-29.2	13.9	23.53	40	-16.47	100	Vert
56.1691	44.59	PK	-29	7.9	23.49	40	-16.51	100	Vert
178.0975	37.6	PK	-27.8	10.5	20.3	43.5	-23.2	200	Vert
392.6839	40.05	PK	-26.8	14.9	28.15	46	-17.85	200	Vert

PK - Peak detector

QP - Quasi-Peak detector

Note: the limit in this table is QP limit.