FCC PART 15.247

TEST REPORT

For

Posh Mobile Limited

1011A, 10/F., Harbour Centre Tower 1, No. 1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

FCC ID: 2ABN6L700

Report Type:	**Product Type:**
Original Report	Equal Pro LTE

Test Engineer:	Dean Liu
Report Number:	RDG160304003-00B
Report Date:	2016-03-14
Reviewed By:	Jerry Zhang EMC Manager
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

TABLE OF CONTENTS

GENERAL INFORMATION **4**
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 4
OBJECTIVE 4
RELATED SUBMITTAL(S)/GRANT(S) 4
TEST METHODOLOGY 4
TEST FACILITY 4
SYSTEM TEST CONFIGURATION **5**
DESCRIPTION OF TEST CONFIGURATION 5
EQUIPMENT MODIFICATIONS 5
EUT EXERCISE SOFTWARE 6
EXTERNAL CABLE 6
BLOCK DIAGRAM OF TEST SETUP 7
SUMMARY OF TEST RESULTS **8**
FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE **9**
APPLICABLE STANDARD 9
FCC §15.203 - ANTENNA REQUIREMENT **10**
APPLICABLE STANDARD 10
ANTENNA CONNECTOR CONSTRUCTION 10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS **11**
APPLICABLE STANDARD 11
MEASUREMENT UNCERTAINTY 11
EUT SETUP 11
EMI TEST RECEIVER SETUP 12
TEST PROCEDURE 12
CORRECTED AMPLITUDE & MARGIN CALCULATION 12
TEST EQUIPMENT LIST AND DETAILS 13
TEST RESULTS SUMMARY 13
TEST DATA 13
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS **18**
APPLICABLE STANDARD 18
MEASUREMENT UNCERTAINTY 18
EUT SETUP 18
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP 19
TEST PROCEDURE 19
CORRECTED AMPLITUDE & MARGIN CALCULATION 20
TEST EQUIPMENT LIST AND DETAILS 20
TEST RESULTS SUMMARY 20
TEST DATA 20
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH **34**
APPLICABLE STANDARD 34
TEST PROCEDURE 34
TEST EQUIPMENT LIST AND DETAILS 34
TEST DATA 34
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER **43**

APPLICABLE STANDARD 43
TEST PROCEDURE 43
TEST EQUIPMENT LIST AND DETAILS....43
TEST DATA 43

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE....45

APPLICABLE STANDARD 45
TEST PROCEDURE 45
TEST EQUIPMENT LIST AND DETAILS....45
TEST DATA 45

FCC §15.247(e) - POWER SPECTRAL DENSITY 51

APPLICABLE STANDARD 51
TEST PROCEDURE 51
TEST EQUIPMENT LIST AND DETAILS....51
TEST DATA 51

DECLARATION LETTER 60

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Posh Mobile Limited*'s product, model number: *L700A (FCC ID: 2ABN6L700)* (the "EUT") in this report was a *Equal Pro LTE* , which was measured approximately:19.21 cm (L) x 10.15 cm (W) x 0.85 cm (H), rated input voltage: DC3.8V rechargeable Li-ion battery or DC5.0V charging from adapter. The highest operating frequency is 2480 MHz.

Adapter information:
Model: A31-501000
Input: AC100-240V, 50/60 Hz 0.2A
Output: DC 5.0V, 1A

Note: The series product, model L700A and L700 are electrically identical, the difference between them was explained in the attached declaration letter, we selected L700A for fully testing.

All measurement and test data in this report was gathered from production sample serial number: 160304003 (Assigned byBACL, Dongguan). The EUT was received on 2016-03-04.

Objective

This report is prepared on behalf of *Posh Mobile Limited.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID:2ABN6L700.
FCC Part 15C DSS submissions with FCC ID:2ABN6L700.
FCC Part 22H, 24E, 27 PCE submissions with FCC ID:2ABN6L700.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in testing mode, which was provided by manufacturer.
For 2.4GHz band, 11 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g, and 802.11n ht20 modes were tested with channel 1, 6 and 11.
For 802.11n ht40 mode were tested with Channel 3, 6 and 9.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations.

For Bluetooth LE mode, 40 channels are provided for testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	…	…
…	…	…	…
…	…	…	…
..	…	38	2478
19	2440	39	2480

EUT was tested with channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

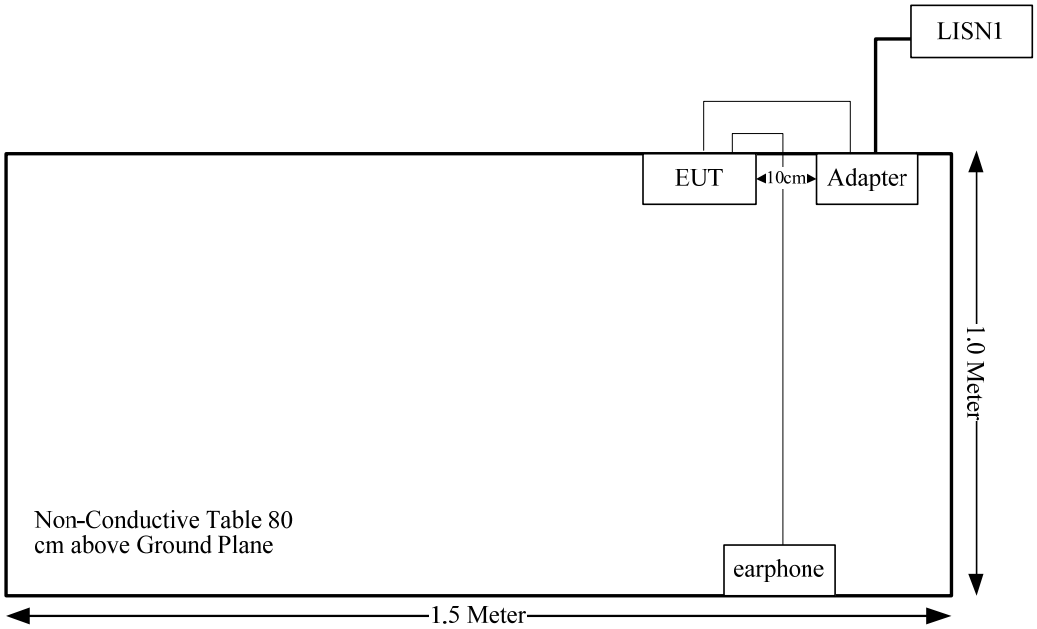
The worst condition (maximum power with 100% duty cycle) was setting by the software as following table:

Test Mode	Test Software Version	Engineering Mode-TX		
802.11b	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level Setting	19	19	19
802.11g	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level Setting	15	15	15
802.11n ht20	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	MCS0	MCS0	MCS0
	Power Level Setting	15	15	15
802.11n ht40	Test Frequency	2422MHz	2437MHz	2452MHz
	Data Rate	MCS0	MCS0	MCS0
	Power Level Setting	16.5	16.5	16.5
BLE	Test Frequency	2402MHz	2440MHz	2480MHz
	BLE	N/A	N/A	N/A

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	no	no	0.82	USB Port of Adater	EUT
Earphone Cable	no	no	1.5	Audio Port of EUT	Earphone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum conducted output power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to§15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

For WiFi mode

Compliant, please refer to the SAR report No: RDG160304003-20.

For bluetooth LE mode

The max tune-up conducted power is -1.9 dBm (0.65 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
= 0.65/5*(√2.48) = 0.2 < 3.0

So the stand-alone for BLE SAR evaluation is not necessary.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT has one internal antenna arrangement for WiFi/BT, and the antenna gain is -0.5 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

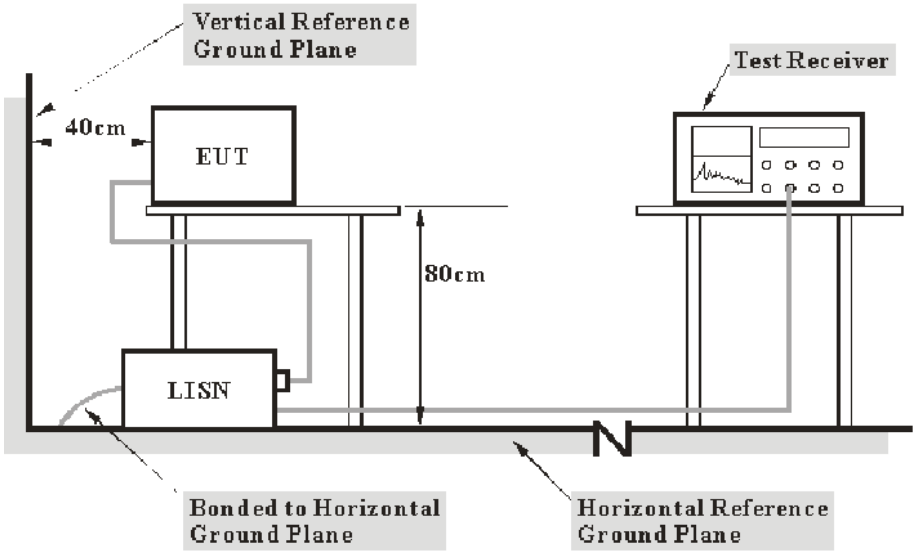
If U_{lab} is less than or equal to U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
If U_{lab} is greater than U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$V_C = V_R + A_C + VDF$
$C_f = A_C + VDF$

Herein,
V_C (cord. Reading): corrected voltage amplitude
V_R: reading voltage amplitude
A_c: attenuation caused by cable loss
VDF: voltage division factor of AMN
C_f: Correction Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2015-12-10	2016-12-09
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-07-16	2016-07-15
R&S	Two-line V-network	ENV 216	3560.6550.12	2015-11-26	2016-11-25
N/A	Coaxial Cable	1.8m	N/A	2015-05-06	2016-05-06
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

5.70 dB at **0.762149 MHz** in the **Neutral** conducted mode for **Wi-Fi**.

Test Data

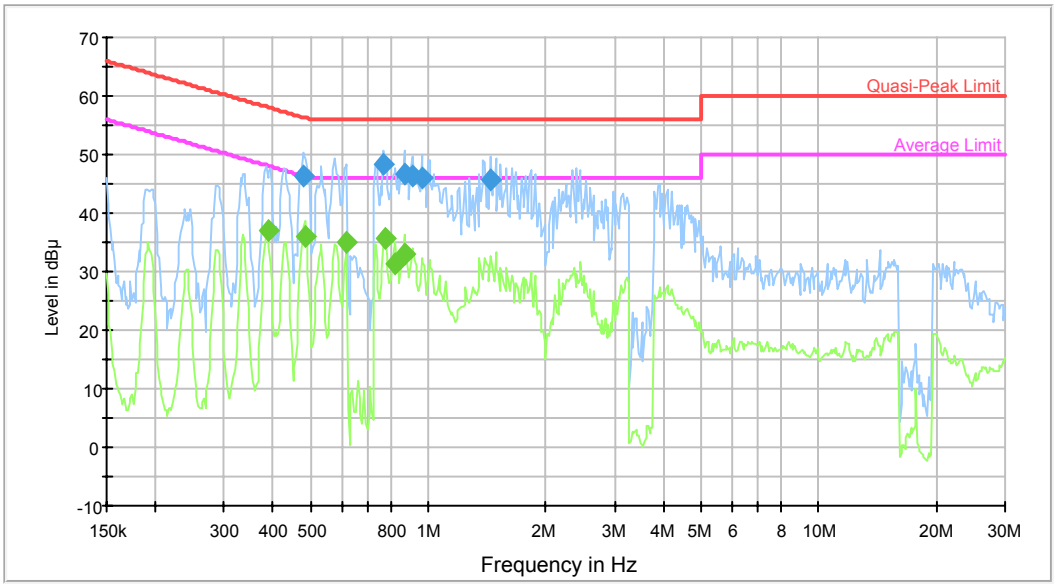
Environmental Conditions

Temperature:	25.9°C
Relative Humidity:	65 %
ATM Pressure:	100.6 kPa

The testing was performed by Dean Liu on 2016-03-09.

Test Mode: Transmitting (Wi-Fi)

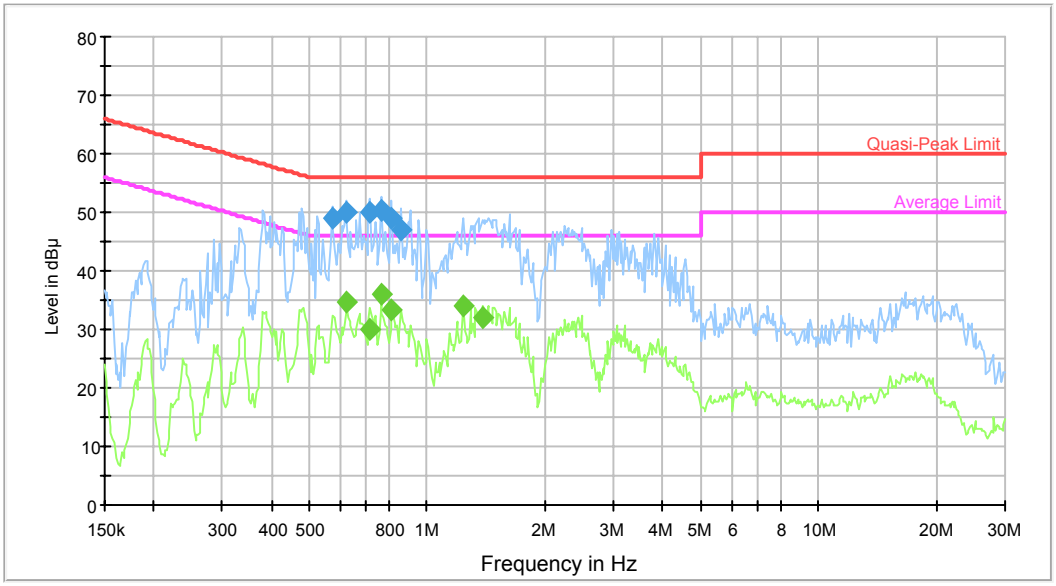
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.476287	46.5	9.000	L1	9.8	9.9	56.4	Compliance
0.768247	48.4	9.000	L1	9.8	7.6	56.0	Compliance
0.865782	46.6	9.000	L1	9.8	9.4	56.0	Compliance
0.908180	46.4	9.000	L1	9.8	9.6	56.0	Compliance
0.960275	46.0	9.000	L1	9.8	10.0	56.0	Compliance
1.441726	45.5	9.000	L1	9.8	10.5	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.387164	36.8	9.000	L1	9.8	11.3	48.1	Compliance
0.483938	36.0	9.000	L1	9.8	10.3	46.3	Compliance
0.619536	35.2	9.000	L1	9.8	10.8	46.0	Compliance
0.774393	35.8	9.000	L1	9.8	10.2	46.0	Compliance
0.825364	31.2	9.000	L1	9.8	14.8	46.0	Compliance
0.865782	33.0	9.000	L1	9.8	13.0	46.0	Compliance

AC120 V, 60 Hz, Neutral:

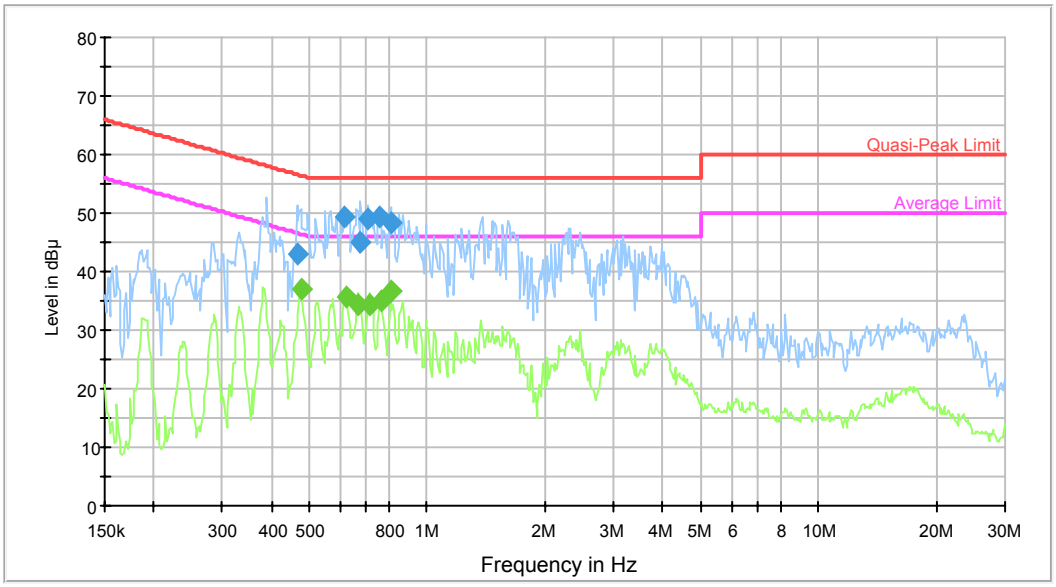


Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.572086	48.9	9.000	N	9.7	7.1	56.0	Compliance
0.619536	49.8	9.000	N	9.7	6.2	56.0	Compliance
0.715082	49.9	9.000	N	9.7	6.1	56.0	Compliance
0.762149	50.3	9.000	N	9.7	5.7	56.0	Compliance
0.805868	48.9	9.000	N	9.7	7.1	56.0	Compliance
0.858911	46.9	9.000	N	9.8	9.1	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.624492	34.7	9.000	N	9.7	11.3	46.0	Compliance
0.715082	29.9	9.000	N	9.7	16.1	46.0	Compliance
0.762149	36.1	9.000	N	9.7	9.9	46.0	Compliance
0.812315	33.2	9.000	N	9.7	12.8	46.0	Compliance
1.239175	33.9	9.000	N	9.8	12.1	46.0	Compliance
1.385415	32.1	9.000	N	9.8	13.9	46.0	Compliance

Test Mode: Transmitting (BLE)

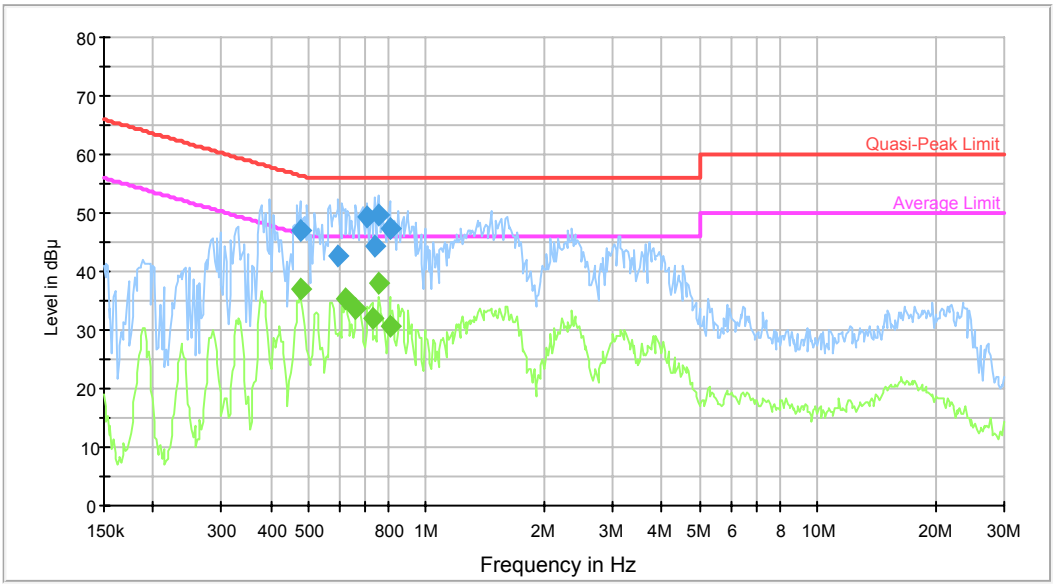
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.465037	43.0	9.000	L1	9.8	13.6	56.6	Compliance
0.614619	49.2	9.000	L1	9.8	6.8	56.0	Compliance
0.676289	44.9	9.000	L1	9.8	11.1	56.0	Compliance
0.709407	49.2	9.000	L1	9.8	6.8	56.0	Compliance
0.756101	49.4	9.000	L1	9.8	6.6	56.0	Compliance
0.805868	48.4	9.000	L1	9.8	7.6	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.476287	36.9	9.000	L1	9.8	9.5	46.4	Compliance
0.619536	35.8	9.000	L1	9.8	10.2	46.0	Compliance
0.665597	34.2	9.000	L1	9.8	11.8	46.0	Compliance
0.715082	34.4	9.000	L1	9.8	11.6	46.0	Compliance
0.762149	35.2	9.000	L1	9.8	10.8	46.0	Compliance
0.805868	36.5	9.000	L1	9.8	9.5	46.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.476287	47.1	9.000	N	9.7	9.3	56.4	Compliance
0.595338	42.8	9.000	N	9.7	13.2	56.0	Compliance
0.709407	49.5	9.000	N	9.7	6.5	56.0	Compliance
0.738241	44.3	9.000	N	9.7	11.7	56.0	Compliance
0.756101	49.7	9.000	N	9.7	6.3	56.0	Compliance
0.805868	47.4	9.000	N	9.7	8.6	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.476287	36.9	9.000	N	9.7	9.5	46.4	Compliance
0.624492	35.4	9.000	N	9.7	10.6	46.0	Compliance
0.660314	33.6	9.000	N	9.7	12.4	46.0	Compliance
0.726569	32.0	9.000	N	9.7	14.0	46.0	Compliance
0.756101	38.1	9.000	N	9.7	7.9	46.0	Compliance
0.805868	30.7	9.000	N	9.7	15.3	46.0	Compliance

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

If U_{lab} is less than or equal to U_{cispr} of Table 2, then:
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 2, then:
- compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

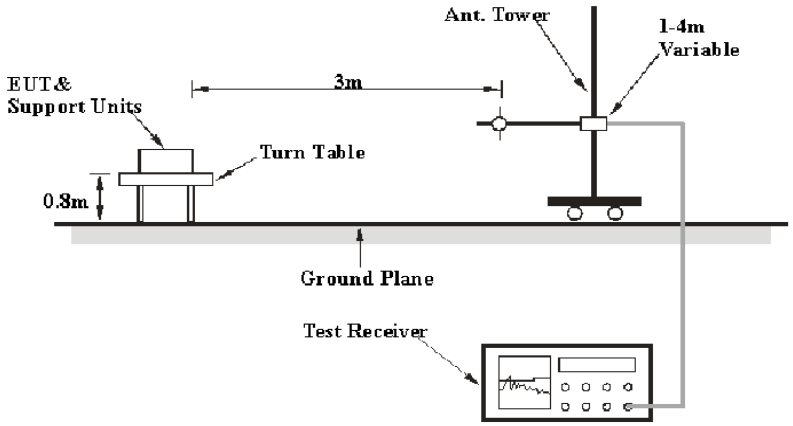
Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB.

Table 2 – Values of U_{cispr}

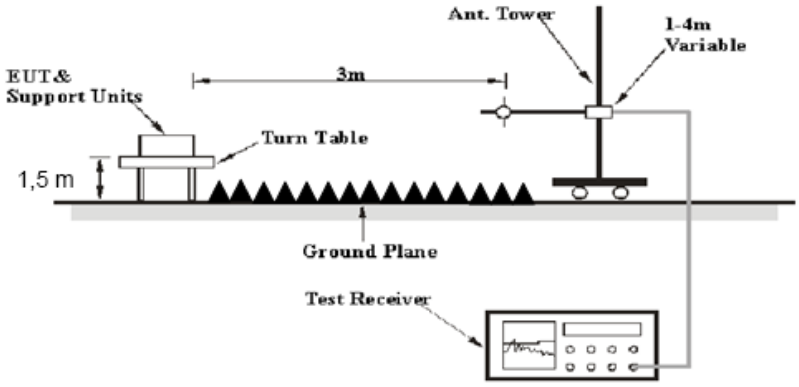
Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2015-09-06	2016-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Section 15.205, 15.209 and 15.247, with the worst margin reading of:

0.39 dB at **2483.5 MHz i**n the **Horizontal** polarization for **802.11n ht20** Mode

Test Data

Environmental Conditions

Temperature:	20.3~23.5 °C
Relative Humidity:	67~79 %
ATM Pressure:	100.3~101.8 kPa

** The testing was performed by Dean Liu from 2016-03-08 to 2016-03-11.*

Test Mode: Transmitting

802.11b Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	73.29	PK	H	25.67	3.68	0.00	102.64	N/A	N/A
2412	69.9	AV	H	25.67	3.68	0.00	99.25	N/A	N/A
2412	67.56	PK	V	25.67	3.68	0.00	96.91	N/A	N/A
2412	64.17	AV	V	25.67	3.68	0.00	93.52	N/A	N/A
2390	31.87	PK	H	25.61	3.63	0.00	61.11	74.00	12.89
2390	23.97	AV	H	25.61	3.63	0.00	53.21	54.00	0.79
4824	43.64	PK	H	30.64	5.03	27.41	51.90	74.00	22.10
4824	41.05	AV	H	30.64	5.03	27.41	49.31	54.00	4.69
7236	34.03	PK	H	34.17	6.65	25.90	48.95	74.00	25.05
7236	22.93	AV	H	34.17	6.65	25.90	37.85	54.00	16.15
9648	29.97	PK	H	36.06	8.55	27.46	47.12	74.00	26.88
9648	16.42	AV	H	36.06	8.55	27.46	33.57	54.00	20.43
2013	34.97	PK	H	24.63	3.19	27.47	35.32	74.00	38.68
2013	22.82	AV	H	24.63	3.19	27.47	23.17	54.00	30.83
236.6	44.2	QP	H	12.13	1.85	21.48	36.70	46.00	9.30
Middle Channel: 2437 MHz									
2437	74.19	PK	H	25.74	3.75	0.00	103.68	N/A	N/A
2437	71.02	AV	H	25.74	3.75	0.00	100.51	N/A	N/A
2437	68.41	PK	V	25.74	3.75	0.00	97.90	N/A	N/A
2437	65.3	AV	V	25.74	3.75	0.00	94.79	N/A	N/A
4874	46.9	PK	H	30.77	5.14	27.42	55.39	74.00	18.61
4874	44.74	AV	H	30.77	5.14	27.42	53.23	54.00	0.77
7311	33.27	PK	H	34.35	6.74	25.88	48.48	74.00	25.52
7311	21.23	AV	H	34.35	6.74	25.88	36.44	54.00	17.56
9748	29.31	PK	H	36.30	8.61	27.24	46.98	74.00	27.02
9748	15.89	AV	H	36.30	8.61	27.24	33.56	54.00	20.44
2013	35.11	PK	H	24.63	3.19	27.47	35.46	74.00	38.54
2013	22.37	AV	H	24.63	3.19	27.47	22.72	54.00	31.28
3143	31.86	PK	H	27.66	6.96	27.42	39.06	74.00	34.94
3143	19.67	AV	H	27.66	6.96	27.42	26.87	54.00	27.13
236.6	44.6	QP	H	12.13	1.85	21.48	37.10	46.00	8.90
High Channel: 2462 MHz									
2462	73.18	PK	H	25.80	3.75	0.00	102.73	N/A	N/A
2462	69.92	AV	H	25.80	3.75	0.00	99.47	N/A	N/A
2462	67.47	PK	V	25.80	3.75	0.00	97.02	N/A	N/A
2462	63.74	AV	V	25.80	3.75	0.00	93.29	N/A	N/A
2483.5	30.06	PK	H	25.86	3.67	0.00	59.59	74.00	14.41
2483.5	22.09	AV	H	25.86	3.67	0.00	51.62	54.00	2.38
4924	43.25	PK	H	30.90	5.34	27.43	52.06	74.00	21.94
4924	40.66	AV	H	30.90	5.34	27.43	49.47	54.00	4.53
7386	33.91	PK	H	34.53	6.83	25.86	49.41	74.00	24.59
7386	22.76	AV	H	34.53	6.83	25.86	38.26	54.00	15.74
9848	29.8	PK	H	36.54	8.66	26.94	48.06	74.00	25.94
9848	16.61	AV	H	36.54	8.66	26.94	34.87	54.00	19.13
2013	34.8	PK	H	24.63	3.19	27.47	35.15	74.00	38.85
2013	22.64	AV	H	24.63	3.19	27.47	22.99	54.00	31.01
236.6	44.8	QP	H	12.13	1.85	21.48	37.30	46.00	8.70

802.11g Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	73.57	PK	H	25.67	3.68	0.00	102.92	N/A	N/A
2412	62.65	AV	H	25.67	3.68	0.00	92.00	N/A	N/A
2412	67.81	PK	V	25.67	3.68	0.00	97.16	N/A	N/A
2412	57.78	AV	V	25.67	3.68	0.00	87.13	N/A	N/A
2390	44.27	PK	H	25.61	3.63	0.00	73.51	74.00	0.49
2390	23.65	AV	H	25.61	3.63	0.00	52.89	54.00	1.11
4824	38.22	PK	H	30.64	5.03	27.41	46.48	74.00	27.52
4824	22.26	AV	H	30.64	5.03	27.41	30.52	54.00	23.48
7236	32.17	PK	H	34.17	6.65	25.90	47.09	74.00	26.91
7236	19.07	AV	H	34.17	6.65	25.90	33.99	54.00	20.01
9648	29.48	PK	H	36.06	8.55	27.46	46.63	74.00	27.37
9648	16.41	AV	H	36.06	8.55	27.46	33.56	54.00	20.44
2013	35.33	PK	H	24.63	3.19	27.47	35.68	74.00	38.32
2013	22.4	AV	H	24.63	3.19	27.47	22.75	54.00	31.25
236.6	43.6	QP	H	12.13	1.85	21.48	36.10	46.00	9.90
Middle Channel: 2437 MHz									
2437	81.21	PK	H	25.74	3.75	0.00	110.70	N/A	N/A
2437	70.54	AV	H	25.74	3.75	0.00	100.03	N/A	N/A
2437	75.45	PK	V	25.74	3.75	0.00	104.94	N/A	N/A
2437	65.46	AV	V	25.74	3.75	0.00	94.95	N/A	N/A
4874	53.63	PK	H	30.77	5.14	27.42	62.12	74.00	11.88
4874	39.69	AV	H	30.77	5.14	27.42	48.18	54.00	5.82
7311	36.18	PK	H	34.35	6.74	25.88	51.39	74.00	22.61
7311	23.42	AV	H	34.35	6.74	25.88	38.63	54.00	15.37
9748	30.05	PK	H	36.30	8.61	27.24	47.72	74.00	26.28
9748	16.58	AV	H	36.30	8.61	27.24	34.25	54.00	19.75
2013	35.2	PK	H	24.63	3.19	27.47	35.55	74.00	38.45
2013	22.99	AV	H	24.63	3.19	27.47	23.34	54.00	30.66
3143	32	PK	H	27.66	6.96	27.42	39.20	74.00	34.80
3143	19.76	AV	H	27.66	6.96	27.42	26.96	54.00	27.04
236.6	43.5	QP	H	12.13	1.85	21.48	36.00	46.00	10.00
High Channel: 2462 MHz									
2462	73.84	PK	H	25.80	3.75	0.00	103.39	N/A	N/A
2462	63.81	AV	H	25.80	3.75	0.00	93.36	N/A	N/A
2462	68.08	PK	V	25.80	3.75	0.00	97.63	N/A	N/A
2462	58.3	AV	V	25.80	3.75	0.00	87.85	N/A	N/A
2483.5	42.69	PK	H	25.86	3.67	0.00	72.22	74.00	1.78
2483.5	22.04	AV	H	25.86	3.67	0.00	51.57	54.00	2.43
4924	38.49	PK	H	30.90	5.34	27.43	47.30	74.00	26.70
4924	22.51	AV	H	30.90	5.34	27.43	31.32	54.00	22.68
7386	32.34	PK	H	34.53	6.83	25.86	47.84	74.00	26.16
7386	19.24	AV	H	34.53	6.83	25.86	34.74	54.00	19.26
9848	29.53	PK	H	36.54	8.66	26.94	47.79	74.00	26.21
9848	16.44	AV	H	36.54	8.66	26.94	34.70	54.00	19.30
2013	35.07	PK	H	24.63	3.19	27.47	35.42	74.00	38.58
2013	22.54	AV	H	24.63	3.19	27.47	22.89	54.00	31.11
236.6	43.1	QP	H	12.13	1.85	21.48	35.60	46.00	10.40

802.11 n ht20 Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	72.43	PK	H	25.67	3.68	0.00	101.78	N/A	N/A
2412	61.34	AV	H	25.67	3.68	0.00	90.69	N/A	N/A
2412	66.67	PK	V	25.67	3.68	0.00	96.02	N/A	N/A
2412	55.53	AV	V	25.67	3.68	0.00	84.88	N/A	N/A
2390	44.28	PK	H	25.61	3.63	0.00	73.52	74.00	0.48
2390	21.8	AV	H	25.61	3.63	0.00	51.04	54.00	2.96
4824	38.35	PK	H	30.64	5.03	27.41	46.61	74.00	27.39
4824	22.45	AV	H	30.64	5.03	27.41	30.71	54.00	23.29
7236	32.35	PK	H	34.17	6.65	25.90	47.27	74.00	26.73
7236	19.2	AV	H	34.17	6.65	25.90	34.12	54.00	19.88
9648	29.55	PK	H	36.06	8.55	27.46	46.70	74.00	27.30
9648	16.41	AV	H	36.06	8.55	27.46	33.56	54.00	20.44
2013	35.13	PK	H	24.63	3.19	27.47	35.48	74.00	38.52
2013	22.76	AV	H	24.63	3.19	27.47	23.11	54.00	30.89
236.6	43.2	QP	H	12.13	1.85	21.48	35.70	46.00	10.30
Middle Channel: 2437 MHz									
2437	80.71	PK	H	25.74	3.75	0.00	110.20	N/A	N/A
2437	70.23	AV	H	25.74	3.75	0.00	99.72	N/A	N/A
2437	74.9	PK	V	25.74	3.75	0.00	104.39	N/A	N/A
2437	64.81	AV	V	25.74	3.75	0.00	94.30	N/A	N/A
4874	53.59	PK	H	30.77	5.14	27.42	62.08	74.00	11.92
4874	39.02	AV	H	30.77	5.14	27.42	47.51	54.00	6.49
7311	35.79	PK	H	34.35	6.74	25.88	51.00	74.00	23.00
7311	23.09	AV	H	34.35	6.74	25.88	38.30	54.00	15.70
9748	29.82	PK	H	36.30	8.61	27.24	47.49	74.00	26.51
9748	16.33	AV	H	36.30	8.61	27.24	34.00	54.00	20.00
2013	34.96	PK	H	24.63	3.19	27.47	35.31	74.00	38.69
2013	22.46	AV	H	24.63	3.19	27.47	22.81	54.00	31.19
3143	32.11	PK	H	27.66	6.96	27.42	39.31	74.00	34.69
3143	19.48	AV	H	27.66	6.96	27.42	26.68	54.00	27.32
236.6	43.1	QP	H	12.13	1.85	21.48	35.60	46.00	10.40
High Channel: 2462 MHz									
2462	73.82	PK	H	25.80	3.75	0.00	103.37	N/A	N/A
2462	63.76	AV	H	25.80	3.75	0.00	93.31	N/A	N/A
2462	68.08	PK	V	25.80	3.75	0.00	97.63	N/A	N/A
2462	56.97	AV	V	25.80	3.75	0.00	86.52	N/A	N/A
2483.5	43.06	PK	H	25.86	3.67	0.00	72.59	74.00	1.41
2483.5	24.08	AV	H	25.86	3.67	0.00	53.61	54.00	**0.39**
4924	38.61	PK	H	30.90	5.34	27.43	47.42	74.00	26.58
4924	22.7	AV	H	30.90	5.34	27.43	31.51	54.00	22.49
7386	32.5	PK	H	34.53	6.83	25.86	48.00	74.00	26.00
7386	19.38	AV	H	34.53	6.83	25.86	34.88	54.00	19.12
9848	29.6	PK	H	36.54	8.66	26.94	47.86	74.00	26.14
9848	16.49	AV	H	36.54	8.66	26.94	34.75	54.00	19.25
2013	35.04	PK	H	24.63	3.19	27.47	35.39	74.00	38.61
2013	22.66	AV	H	24.63	3.19	27.47	23.01	54.00	30.99
236.6	43.3	QP	H	12.13	1.85	21.48	35.80	46.00	10.20

802.11 n ht40 Mode

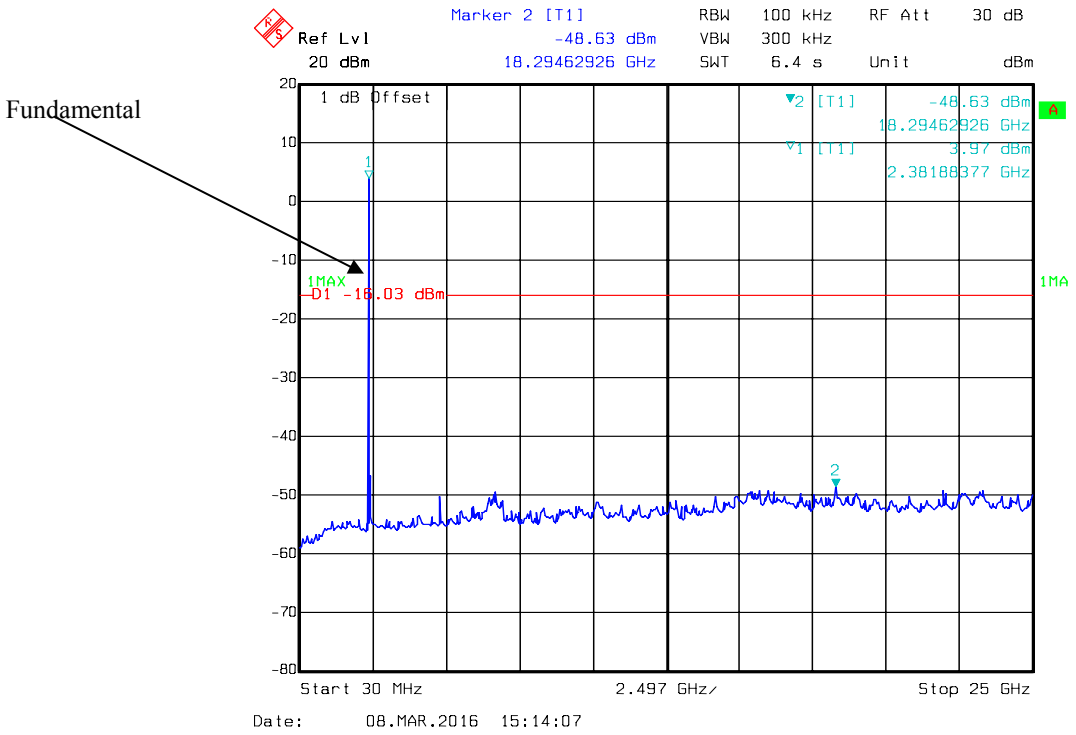
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2422 MHz									
2422	69.12	PK	H	25.70	3.71	0.00	98.53	N/A	N/A
2422	56.97	AV	H	25.70	3.71	0.00	86.38	N/A	N/A
2422	64.31	PK	V	25.70	3.71	0.00	93.72	N/A	N/A
2422	52.54	AV	V	25.70	3.71	0.00	81.95	N/A	N/A
2390	44.3	PK	H	25.61	3.63	0.00	73.54	74.00	0.46
2390	23.61	AV	H	25.61	3.63	0.00	52.85	54.00	1.15
4844	37.12	PK	H	30.69	4.99	27.42	45.38	74.00	28.62
4844	21.21	AV	H	30.69	4.99	27.42	29.47	54.00	24.53
7266	31.91	PK	H	34.24	6.68	25.89	46.94	74.00	27.06
7266	18.72	AV	H	34.24	6.68	25.89	33.75	54.00	20.25
9688	29.42	PK	H	36.15	8.58	27.37	46.78	74.00	27.22
9688	16.29	AV	H	36.15	8.58	27.37	33.65	54.00	20.35
2013	34.91	PK	H	24.63	3.19	27.47	35.26	74.00	38.74
2013	22.74	AV	H	24.63	3.19	27.47	23.09	54.00	30.91
236.6	43.1	QP	H	12.13	1.85	21.48	35.60	46.00	10.40
Middle Channel: 2437 MHz									
2437	78.38	PK	H	25.74	3.75	0.00	107.87	N/A	N/A
2437	66.04	AV	H	25.74	3.75	0.00	95.53	N/A	N/A
2437	72.59	PK	V	25.74	3.75	0.00	102.08	N/A	N/A
2437	60.25	AV	V	25.74	3.75	0.00	89.74	N/A	N/A
4874	50.61	PK	H	30.77	5.14	27.42	59.10	74.00	14.90
4874	35.96	AV	H	30.77	5.14	27.42	44.45	54.00	9.55
7311	35.42	PK	H	34.35	6.74	25.88	50.63	74.00	23.37
7311	22.71	AV	H	34.35	6.74	25.88	37.92	54.00	16.08
9748	29.58	PK	H	36.30	8.61	27.24	47.25	74.00	26.75
9748	16.09	AV	H	36.30	8.61	27.24	33.76	54.00	20.24
2013	34.85	PK	H	24.63	3.19	27.47	35.20	74.00	38.80
2013	22.81	AV	H	24.63	3.19	27.47	23.16	54.00	30.84
3143	32.12	PK	H	27.66	6.96	27.42	39.32	74.00	34.68
3143	19.65	AV	H	27.66	6.96	27.42	26.85	54.00	27.15
236.6	42.9	QP	H	12.13	1.85	21.48	35.40	46.00	10.60
High Channel: 2452 MHz									
2452	68.01	PK	H	25.78	3.78	0.00	97.57	N/A	N/A
2452	56.05	AV	H	25.78	3.78	0.00	85.61	N/A	N/A
2452	62.26	PK	V	25.78	3.78	0.00	91.82	N/A	N/A
2452	50	AV	V	25.78	3.78	0.00	79.56	N/A	N/A
2483.5	42.66	PK	H	25.86	3.67	0.00	72.19	74.00	1.81
2483.5	23.71	AV	H	25.86	3.67	0.00	53.24	54.00	0.76
4904	36.55	PK	H	30.85	5.31	27.43	45.28	74.00	28.72
4904	20.65	AV	H	30.85	5.31	27.43	29.38	54.00	24.62
7356	31.66	PK	H	34.45	6.79	25.87	47.03	74.00	26.97
7356	18.44	AV	H	34.45	6.79	25.87	33.81	54.00	20.19
9808	29.37	PK	H	36.44	8.64	27.09	47.36	74.00	26.64
9808	16.23	AV	H	36.44	8.64	27.09	34.22	54.00	19.78
2013	35.22	PK	H	24.63	3.19	27.47	35.57	74.00	38.43
2013	22.95	AV	H	24.63	3.19	27.47	23.30	54.00	30.70
236.6	42.8	QP	H	12.13	1.85	21.48	35.30	46.00	10.70

BLE Mode

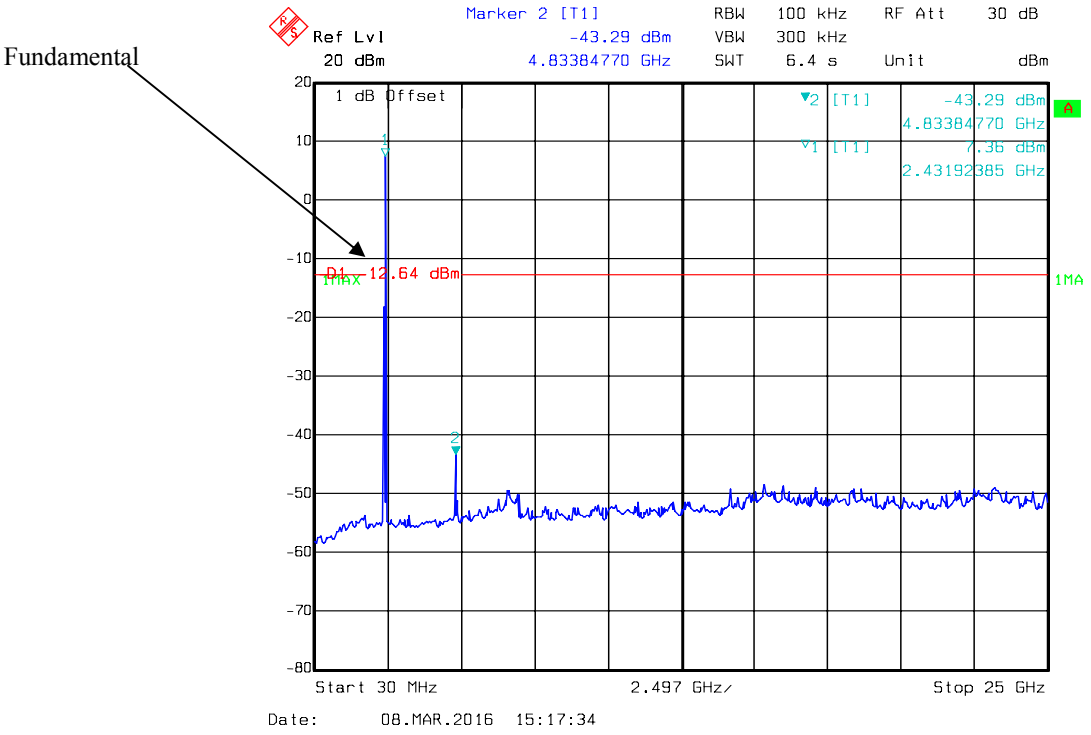
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	58.96	PK	H	25.65	3.66	0.00	88.27	N/A	N/A
2402	53.9	AV	H	25.65	3.66	0.00	83.21	N/A	N/A
2402	55.48	PK	V	25.65	3.66	0.00	84.79	N/A	N/A
2402	50.44	AV	V	25.65	3.66	0.00	79.75	N/A	N/A
2400	28.65	PK	H	25.64	3.65	0.00	57.94	74.00	16.06
2400	14.97	AV	H	25.64	3.65	0.00	44.26	54.00	9.74
4804	29.99	PK	H	30.59	5.06	27.41	38.23	74.00	35.77
4804	16.76	AV	H	30.59	5.06	27.41	25.00	54.00	29.00
7206	30.61	PK	H	34.09	6.61	25.91	45.40	74.00	28.60
7206	17.5	AV	H	34.09	6.61	25.91	32.29	54.00	21.71
9608	29.18	PK	H	35.96	8.53	27.55	46.12	74.00	27.88
9608	15.9	AV	H	35.96	8.53	27.55	32.84	54.00	21.16
2130	35.54	PK	H	24.94	3.20	27.36	36.32	74.00	37.68
2130	23.08	AV	H	24.94	3.20	27.36	23.86	54.00	30.14
236.6	43.2	QP	H	12.13	1.85	21.48	35.70	46.00	10.30
Middle Channel: 2440 MHz									
2440	59.09	PK	H	25.74	3.76	0.00	88.59	N/A	N/A
2440	54.08	AV	H	25.74	3.76	0.00	83.58	N/A	N/A
2440	55.59	PK	V	25.74	3.76	0.00	85.09	N/A	N/A
2440	50.55	AV	V	25.74	3.76	0.00	80.05	N/A	N/A
4880	30.12	PK	H	30.79	5.18	27.42	38.67	74.00	35.33
4880	16.88	AV	H	30.79	5.18	27.42	25.43	54.00	28.57
7320	30.82	PK	H	34.37	6.75	25.88	46.06	74.00	27.94
7320	17.78	AV	H	34.37	6.75	25.88	33.02	54.00	20.98
9760	29.19	PK	H	36.32	8.62	27.21	46.92	74.00	27.08
9760	15.95	AV	H	36.32	8.62	27.21	33.68	54.00	20.32
2130	35.13	PK	H	24.94	3.20	27.36	35.91	74.00	38.09
2130	22.88	AV	H	24.94	3.20	27.36	23.66	54.00	30.34
3177	32.02	PK	H	27.77	6.49	27.39	38.89	74.00	35.11
3177	20.06	AV	H	27.77	6.49	27.39	26.93	54.00	27.07
236.6	43.6	QP	H	12.13	1.85	21.48	36.10	46.00	9.90
High Channel: 2480 MHz									
2480	59.1	PK	H	25.85	3.68	0.00	88.63	N/A	N/A
2480	54.17	AV	H	25.85	3.68	0.00	83.70	N/A	N/A
2480	55.62	PK	V	25.85	3.68	0.00	85.15	N/A	N/A
2480	50.67	AV	V	25.85	3.68	0.00	80.20	N/A	N/A
2483.5	27.22	PK	H	25.86	3.67	0.00	56.75	74.00	17.25
2483.5	13.44	AV	H	25.86	3.67	0.00	42.97	54.00	11.03
4960	30.24	PK	H	31.00	5.34	27.43	39.15	74.00	34.85
4960	17.02	AV	H	31.00	5.34	27.43	25.93	54.00	28.07
7440	31.04	PK	H	34.66	6.89	25.97	46.62	74.00	27.38
7440	18.01	AV	H	34.66	6.89	25.97	33.59	54.00	20.41
9920	29.24	PK	H	36.71	8.71	26.66	48.00	74.00	26.00
9920	16.01	AV	H	36.71	8.71	26.66	34.77	54.00	19.23
2130	35.3	PK	H	24.94	3.20	27.36	36.08	74.00	37.92
2130	23.23	AV	H	24.94	3.20	27.36	24.01	54.00	29.99
236.6	44.2	QP	H	12.13	1.85	21.48	36.70	46.00	9.30

Conducted Spurious Emissions at Antenna Port

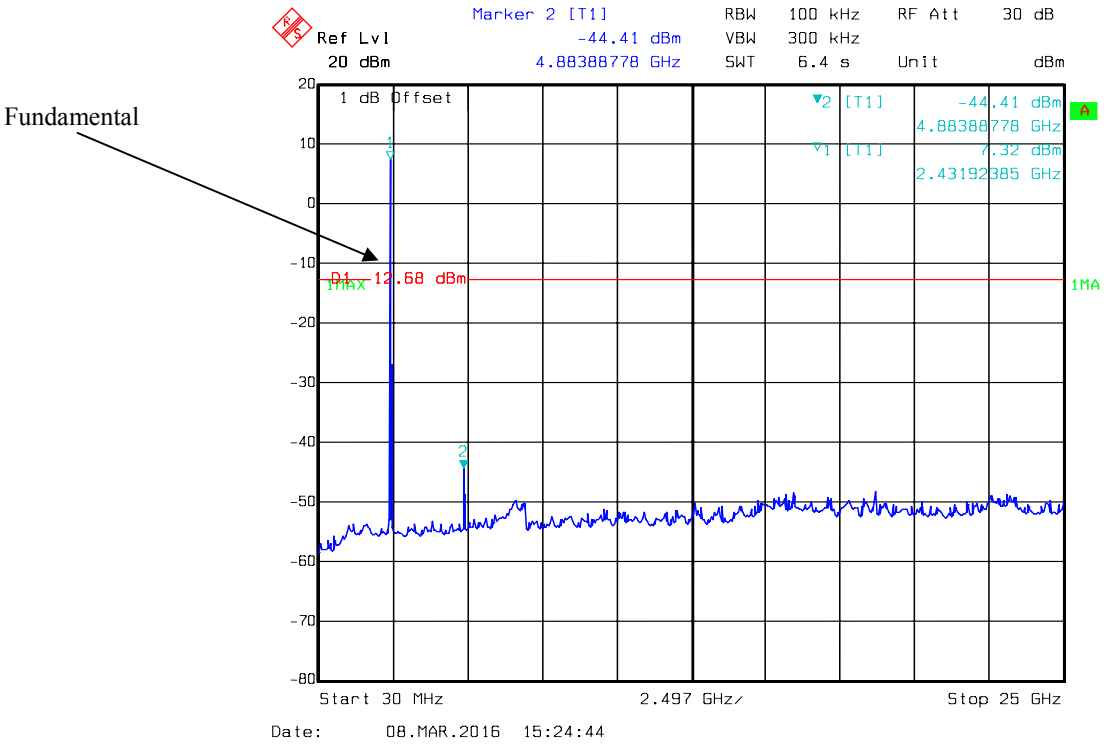
802.11b Low Channel



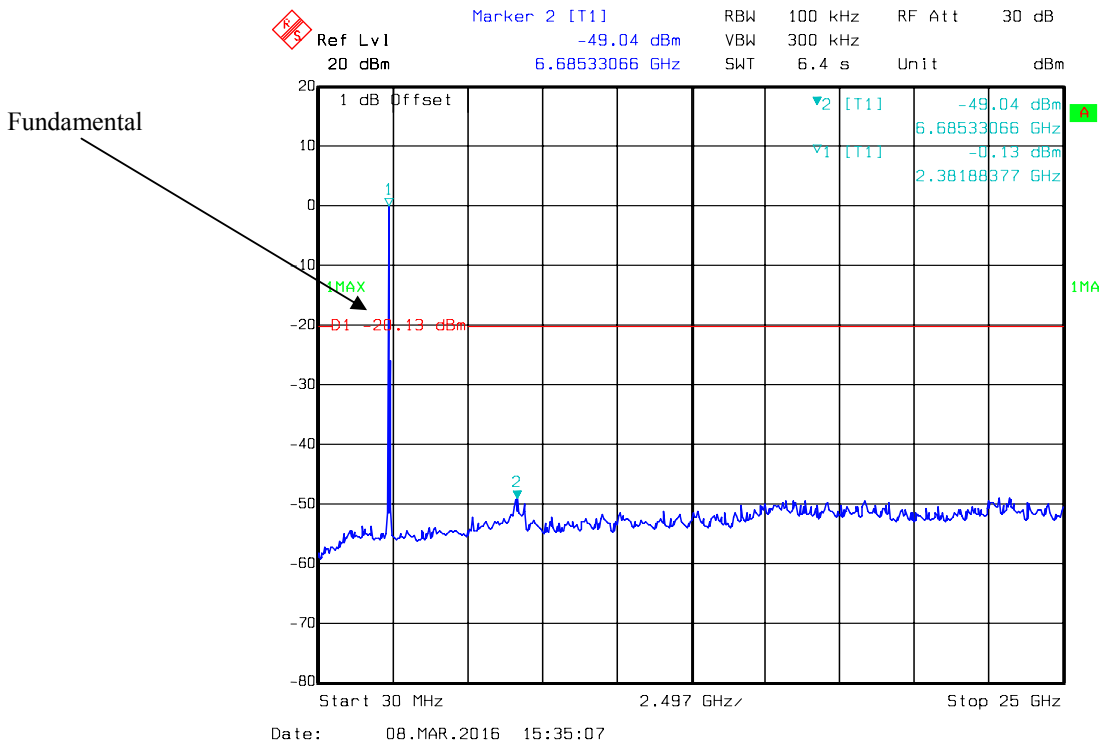
802.11b Middle Channel



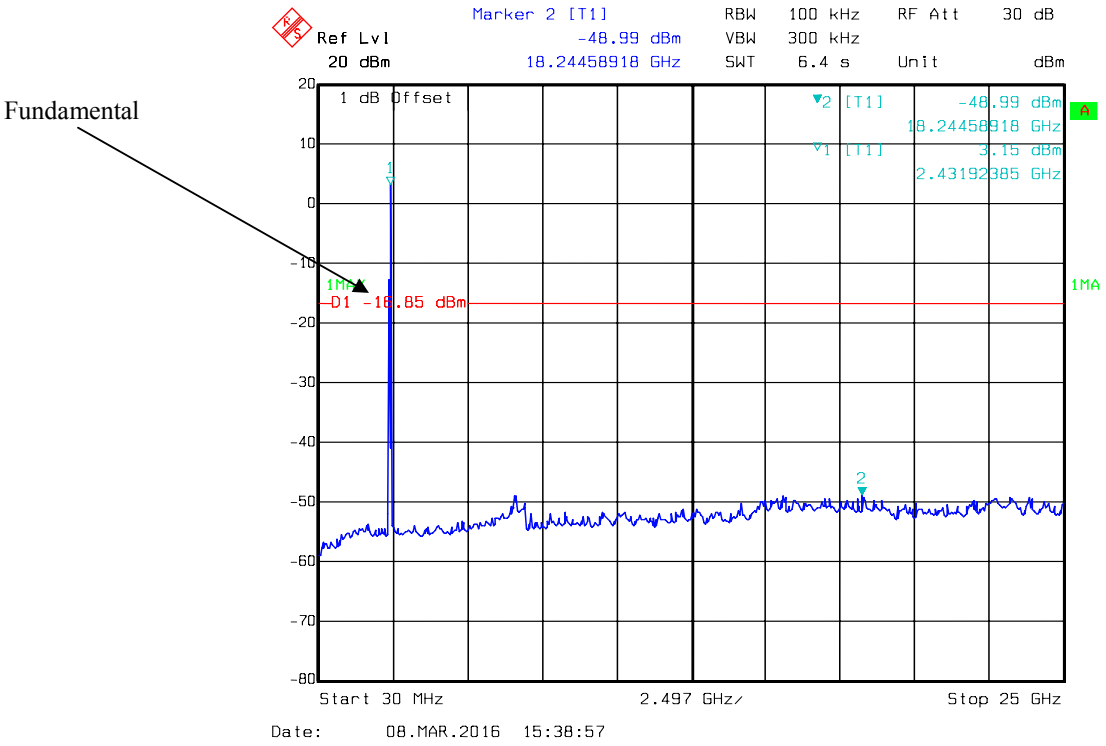
802.11b High Channel



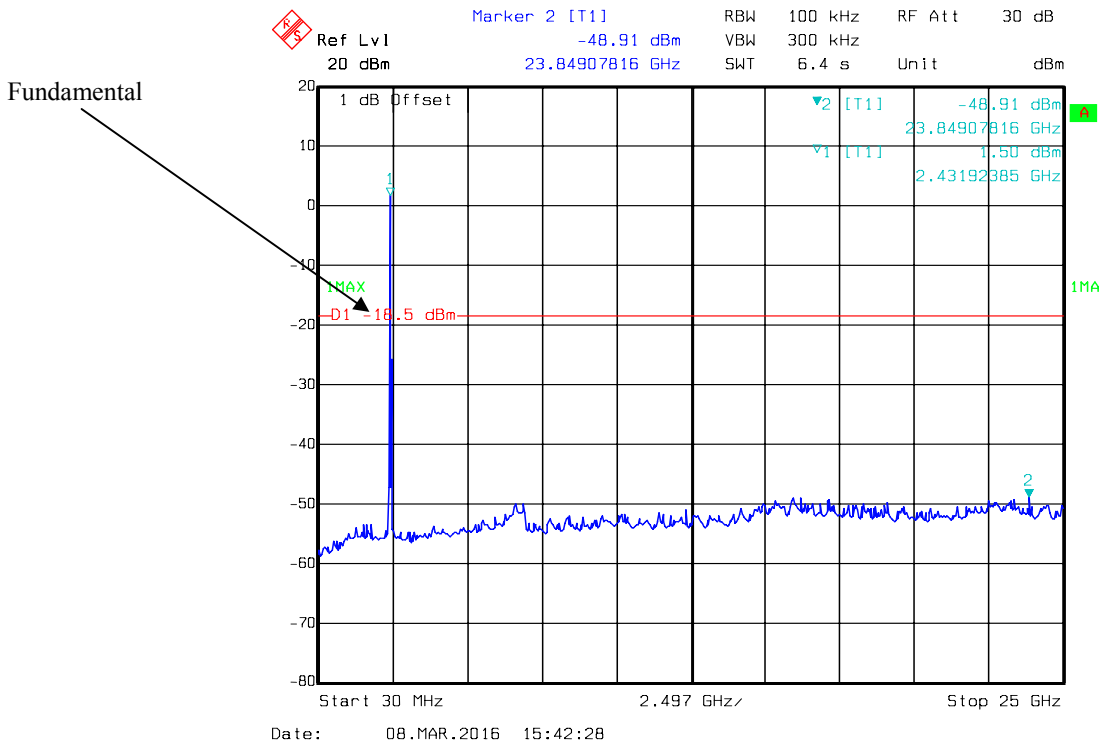
802.11g Low Channel



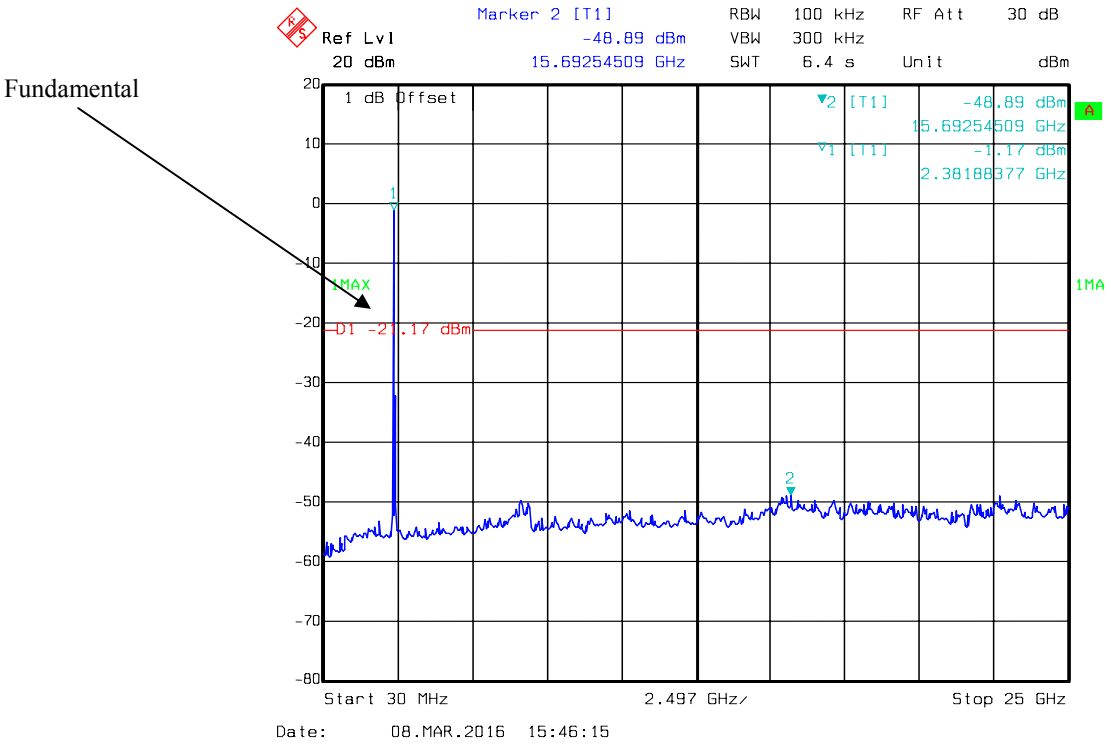
802.11g Middle Channel



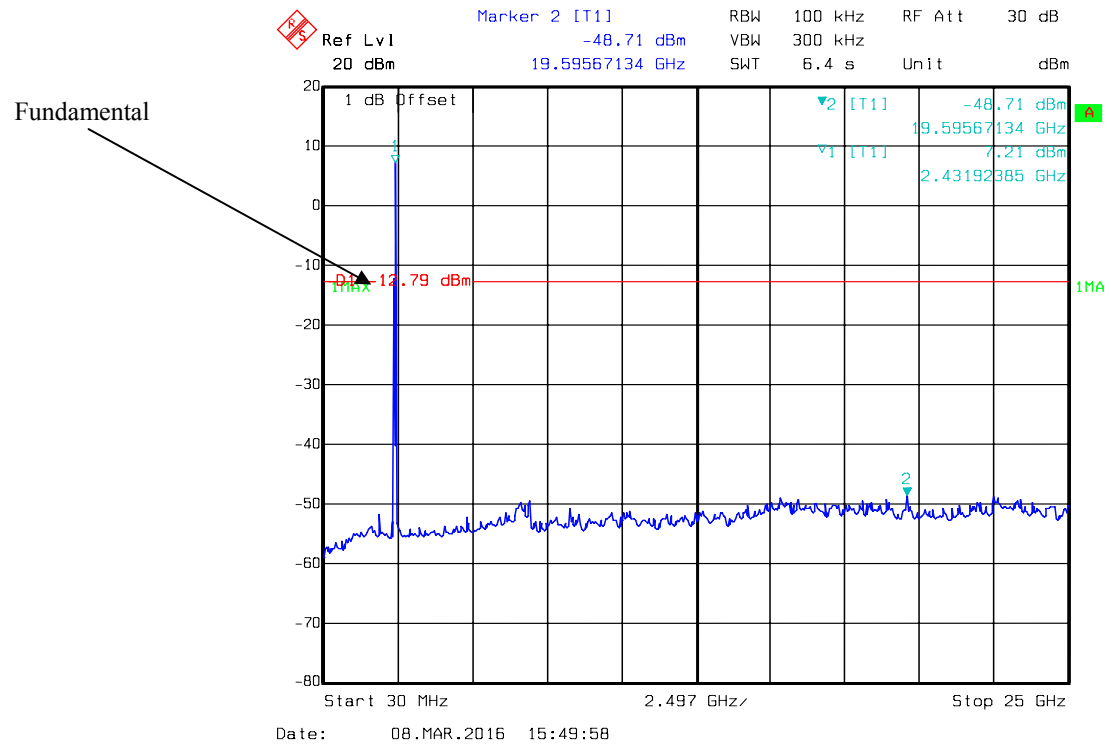
802.11g High Channel



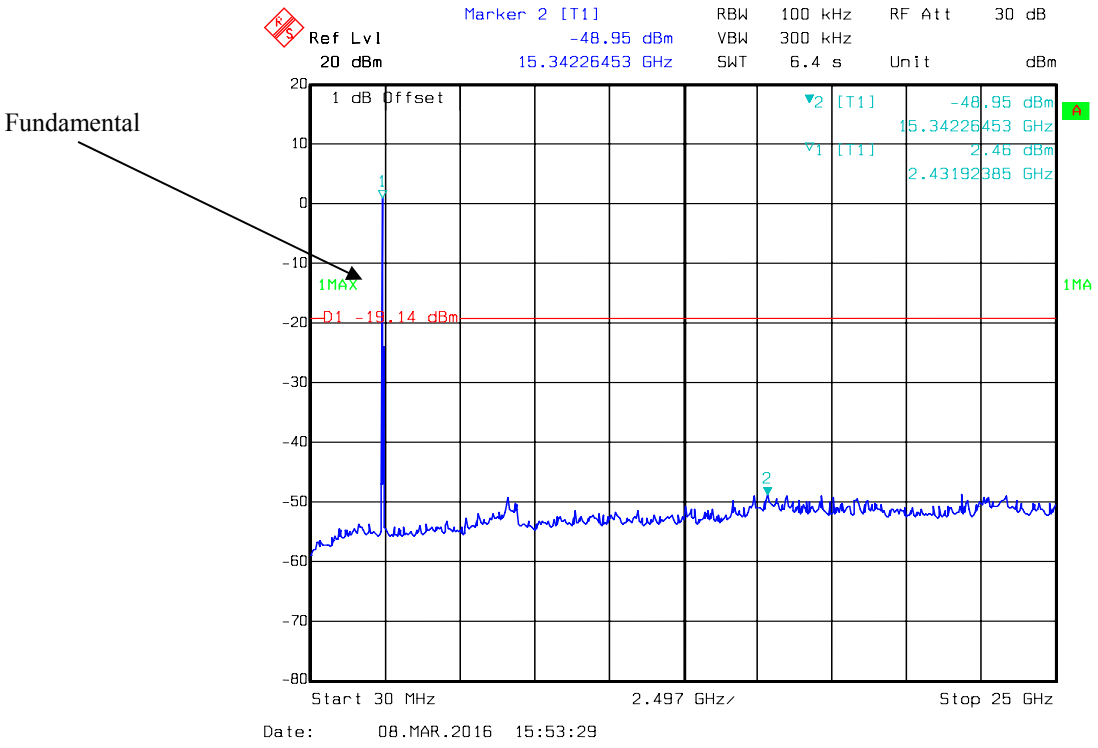
802.11n ht20 Low Channel



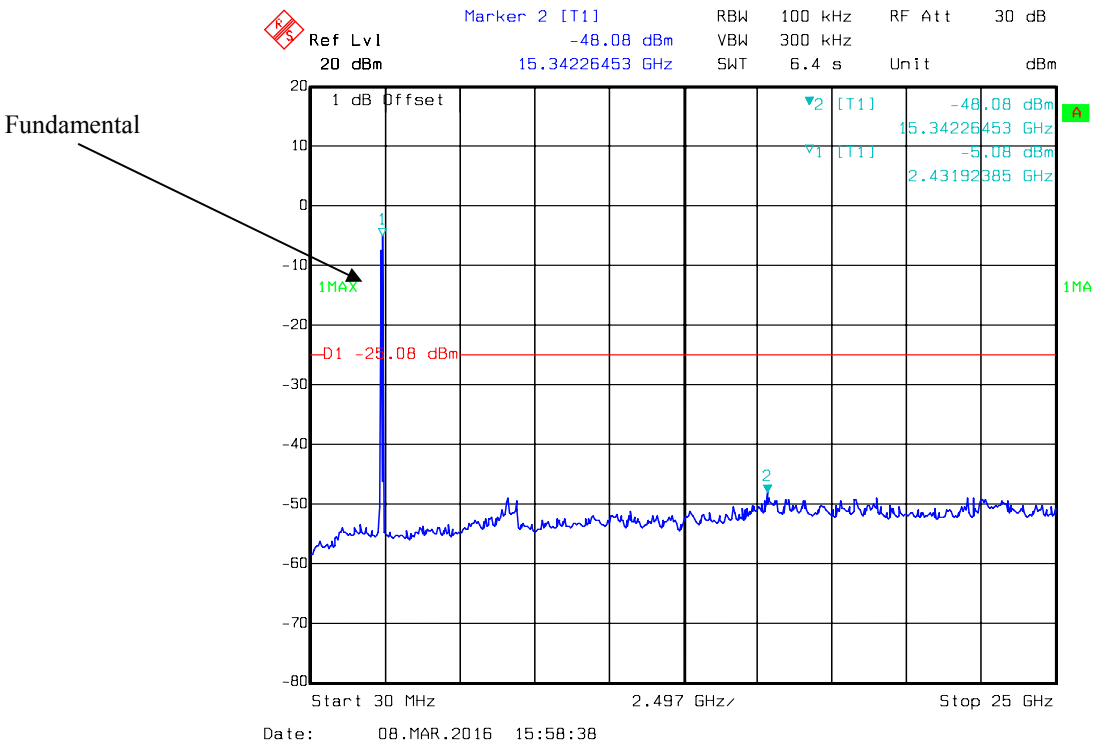
802.11n ht2 Middle Channel



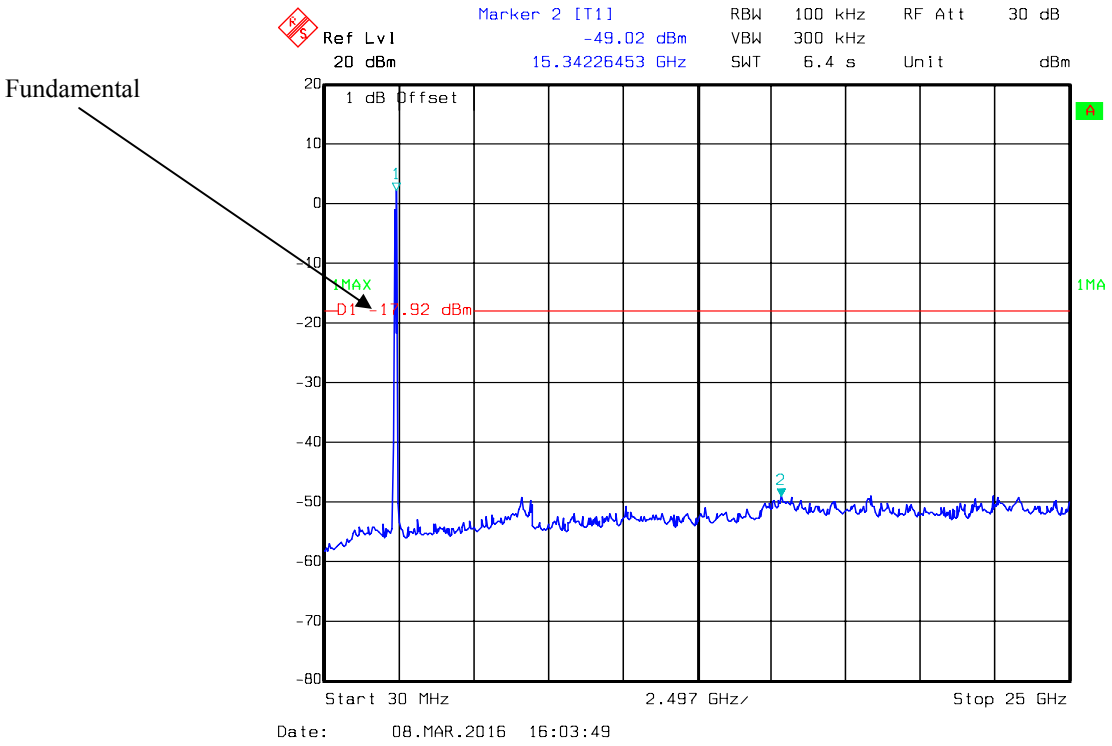
802.11n ht20 High Channel



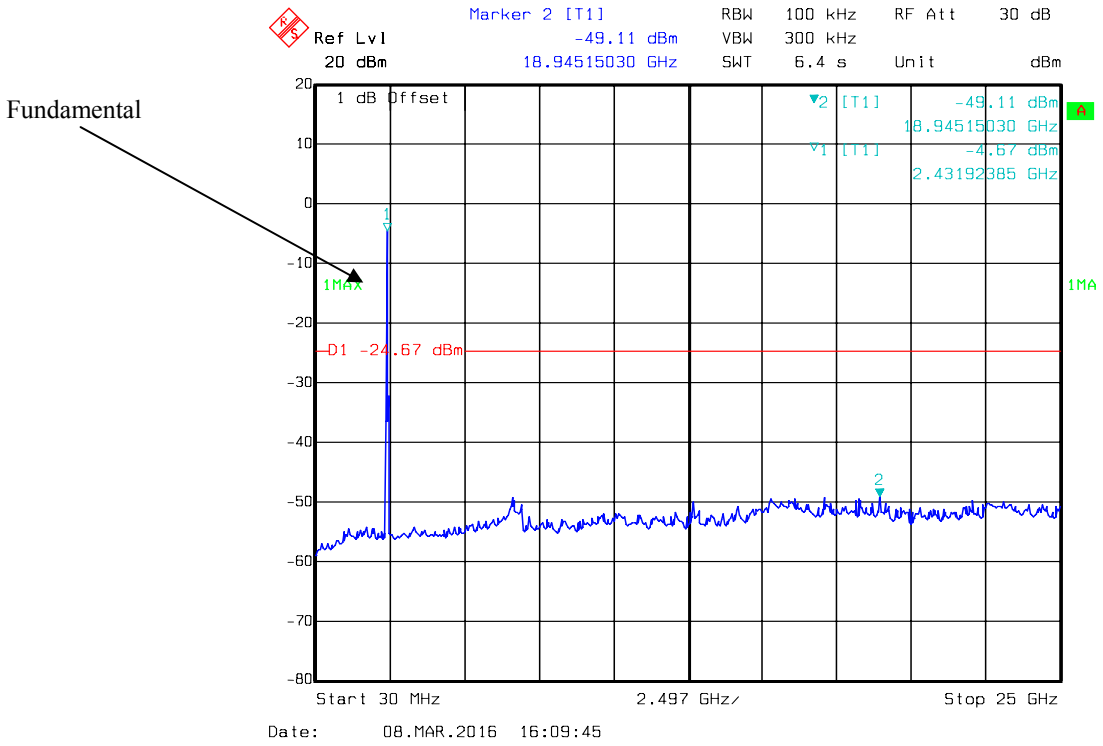
802.11n ht40 Low Channel



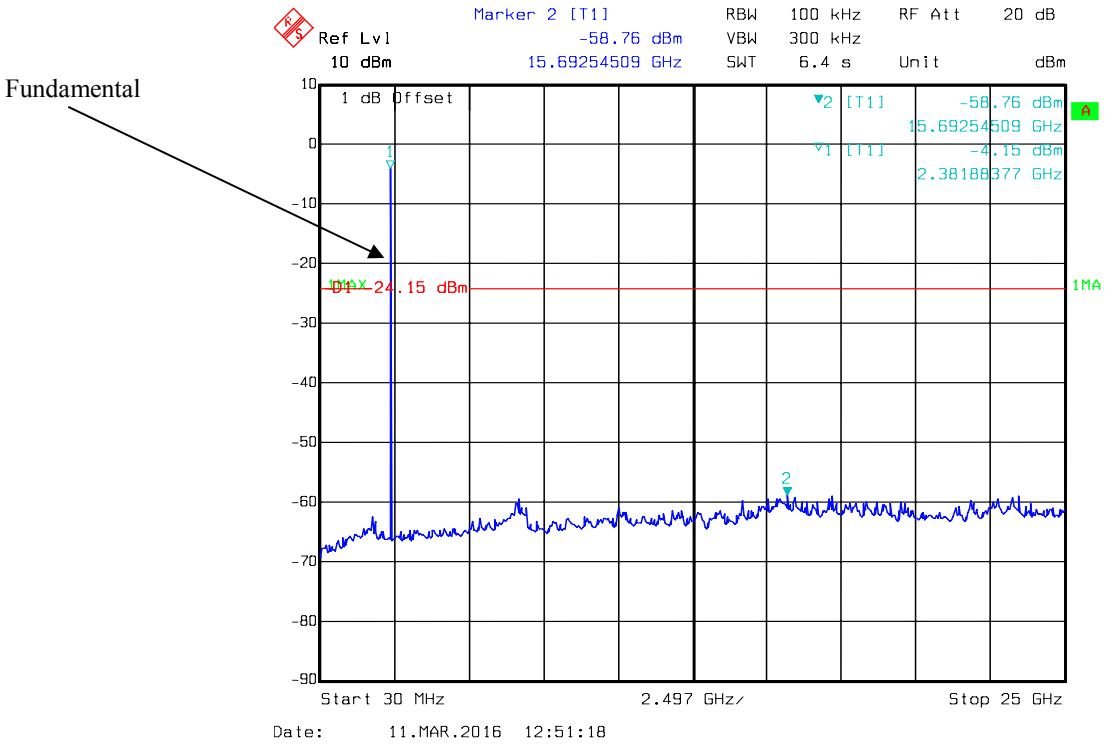
802.11n ht40 Middle Channel



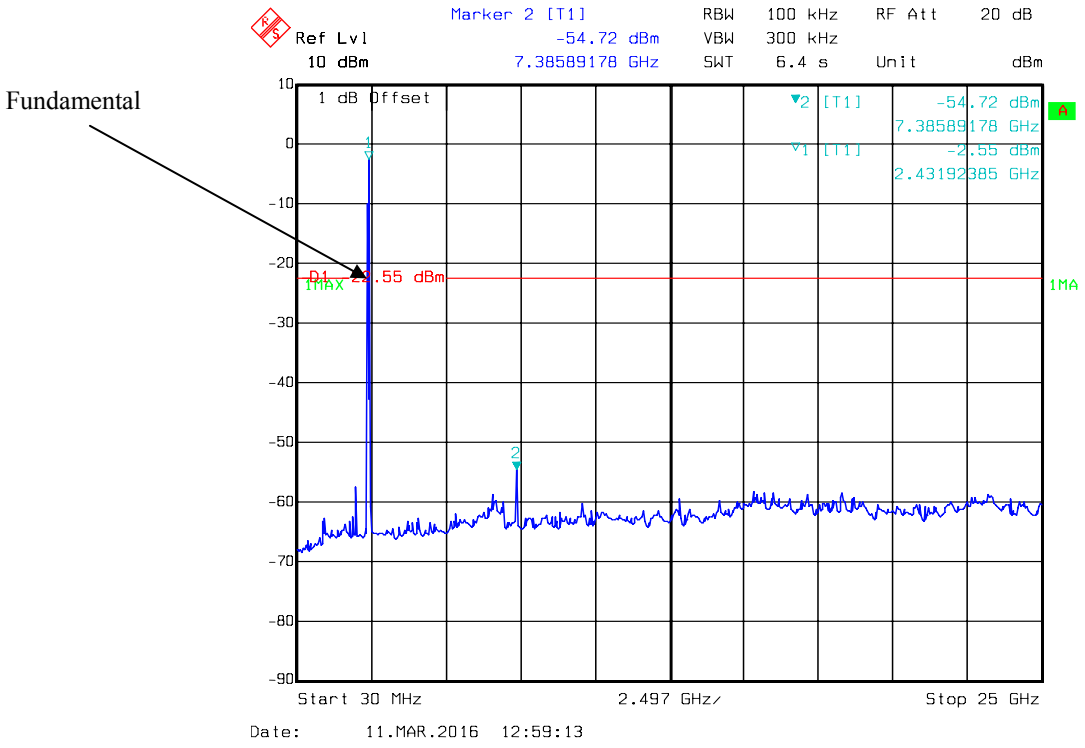
802.11n ht40 High Channel



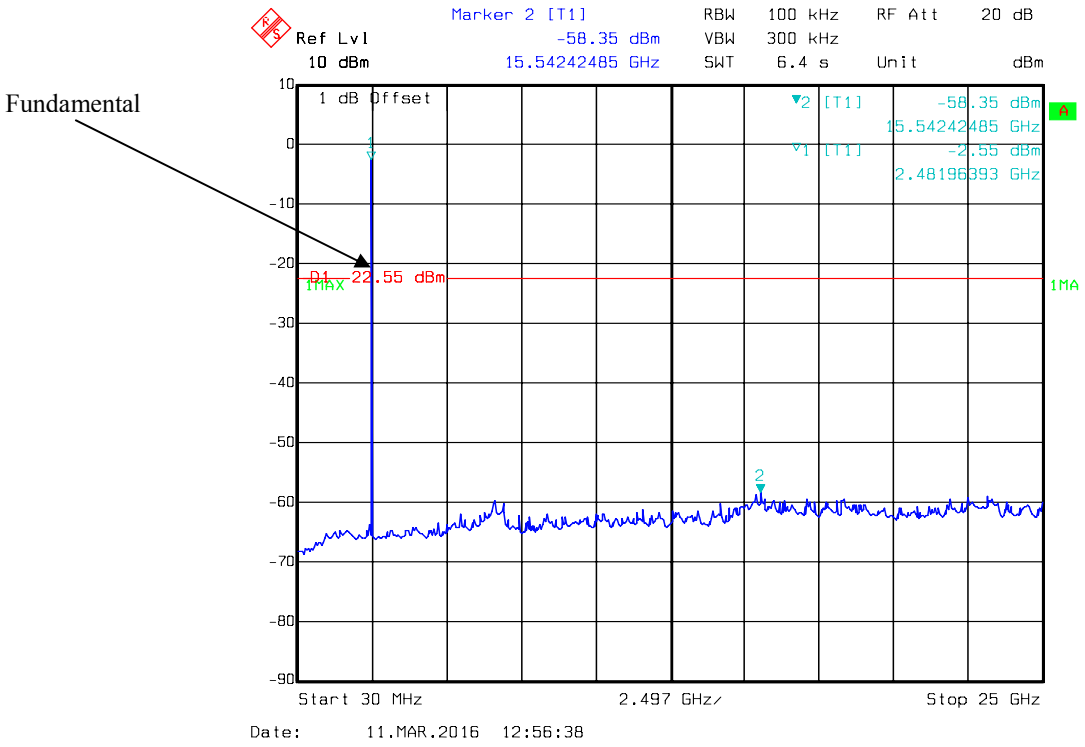
BLE Low Channel



BLE Middle Channel



BLE High Channel



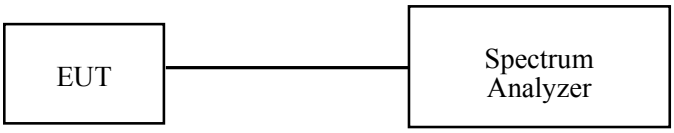
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r04
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3×RBW
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	19.1~26.1 °C
Relative Humidity:	41~59 %
ATM Pressure:	100.3~101.8 kPa

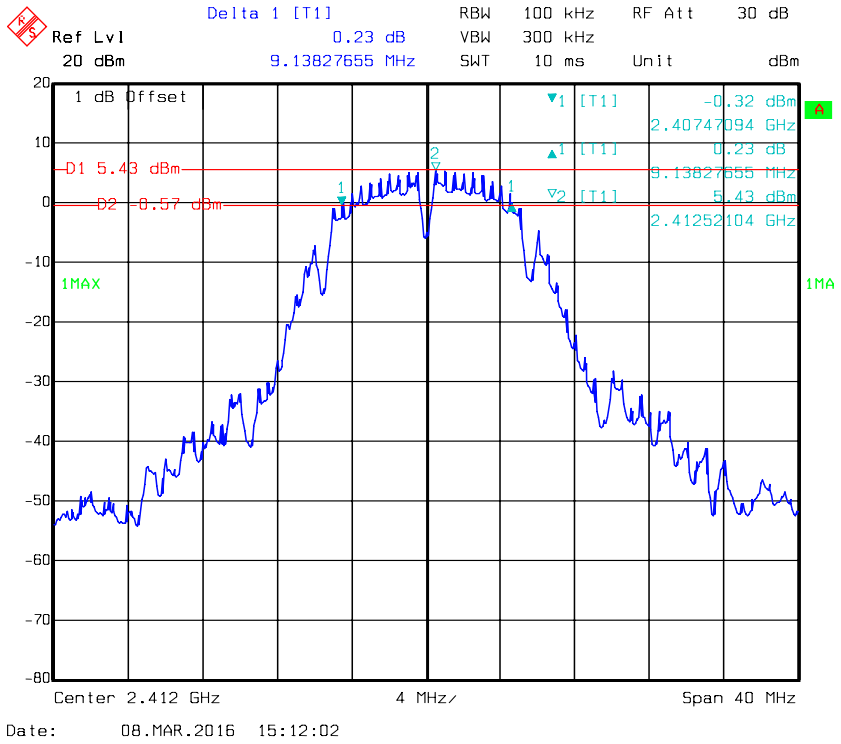
** The testing was performed by Dean Liu from 2016-03-08 to 2016-03-11.*

Test Mode: Transmitting

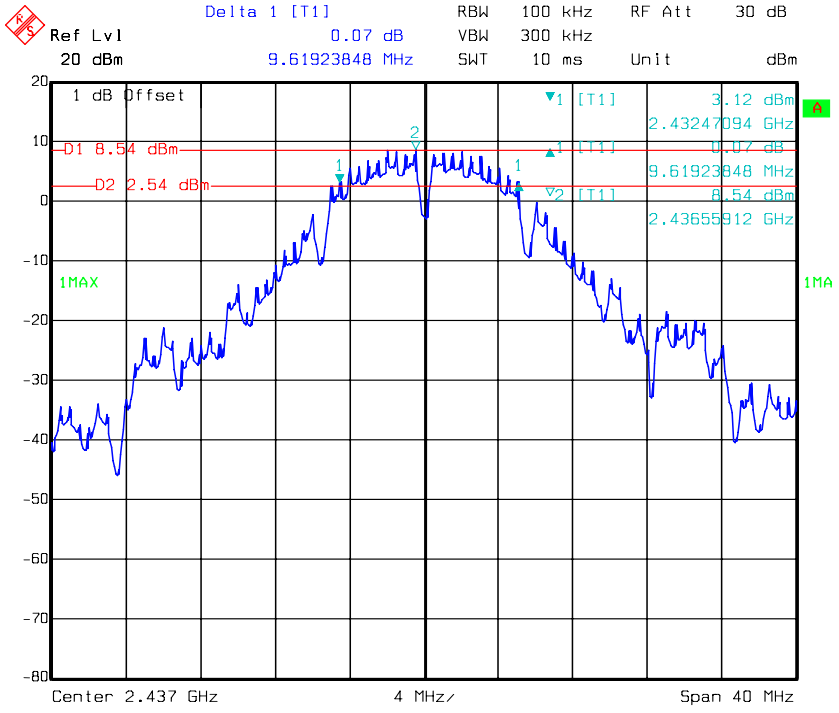
Test Result: Compliant. Please refer to the following table and plots.

Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	9.14	≥0.5
	Middle	2437	9.62	≥0.5
	High	2462	9.62	≥0.5
802.11g	Low	2412	15.55	≥0.5
	Middle	2437	15.55	≥0.5
	High	2462	15.39	≥0.5
802.11n20	Low	2412	16.19	≥0.5
	Middle	2437	16.35	≥0.5
	High	2462	15.39	≥0.5
802.11n40	Low	2422	35.75	≥0.5
	Middle	2437	35.27	≥0.5
	High	2452	35.75	≥0.5
BLE	Low	2402	0.71	≥0.5
	Middle	2440	0.71	≥0.5
	High	2480	0.7	≥0.5

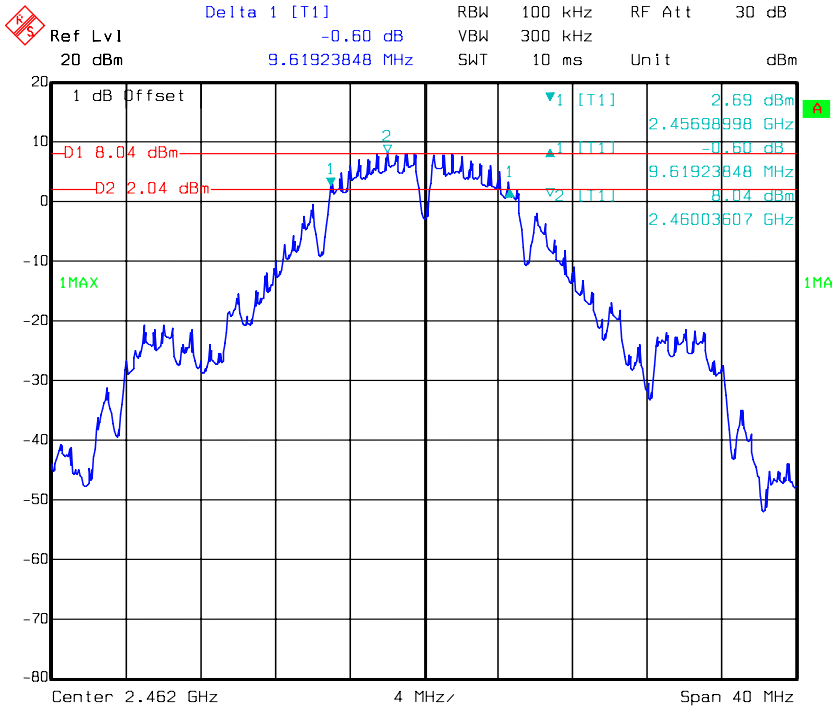
802.11b Low Channel



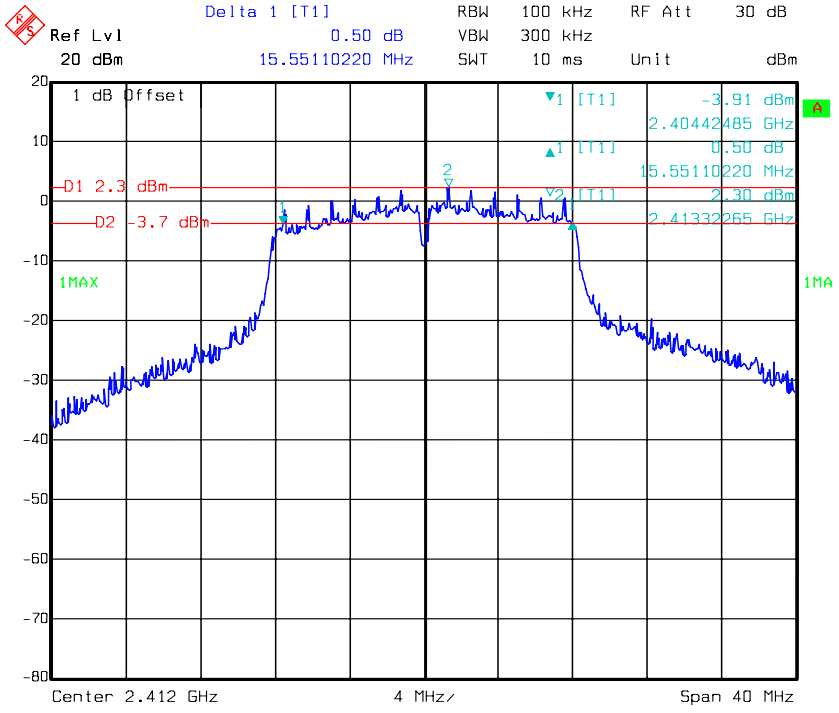
802.11b Middle Channel



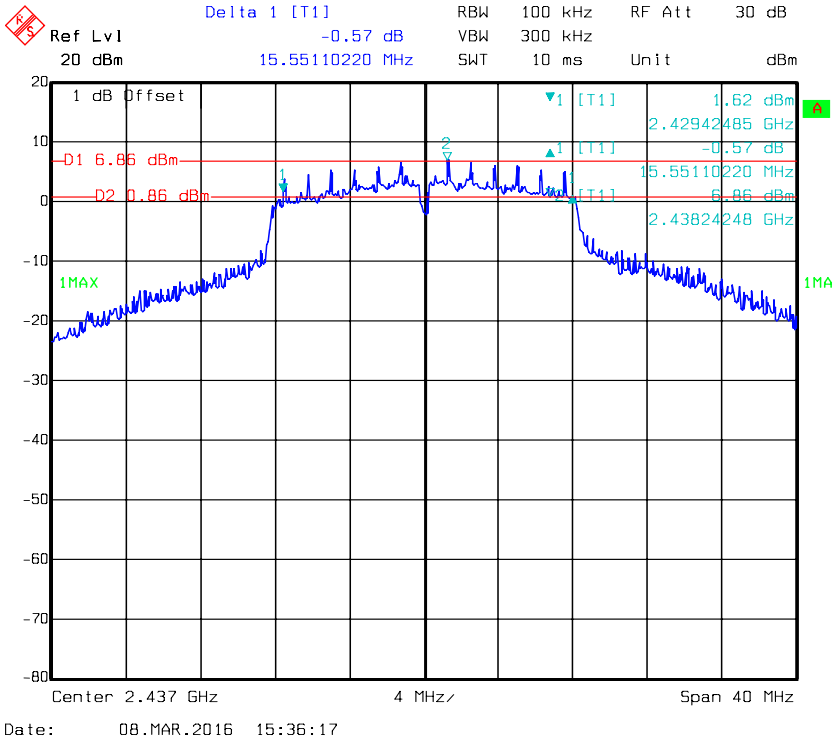
802.11b High Channel



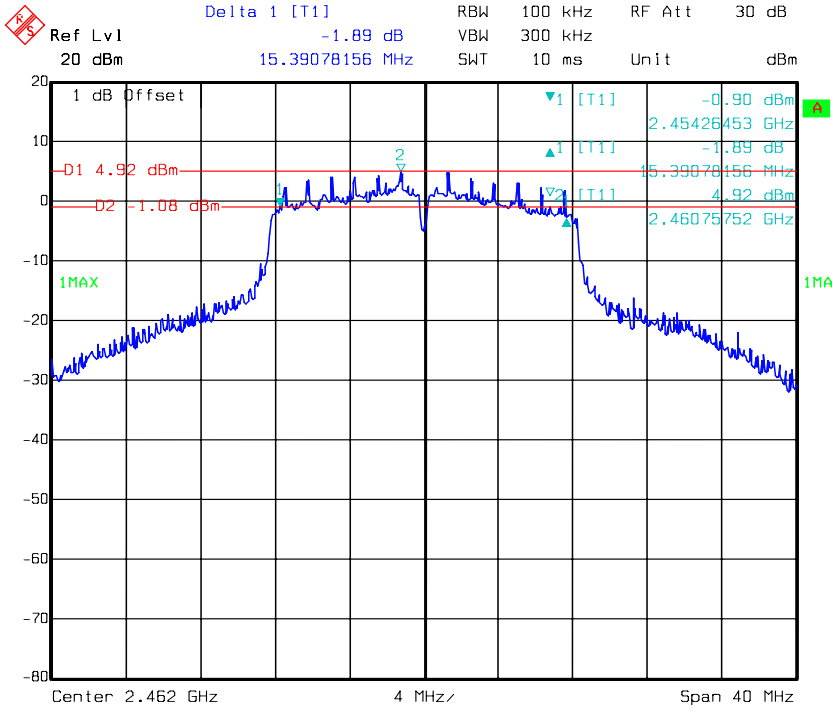
802.11g Low Channel



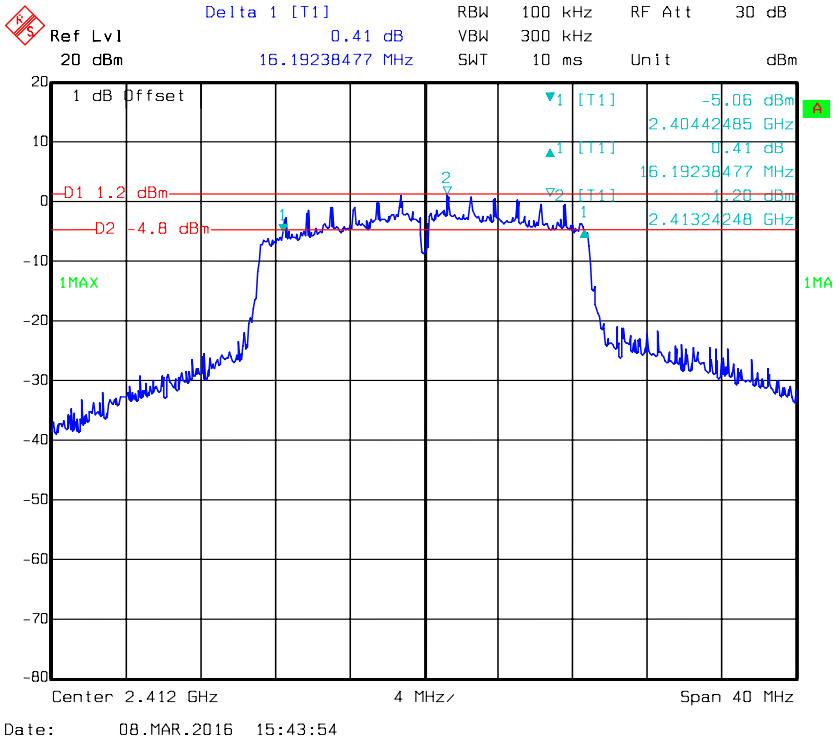
802.11g Middle Channel



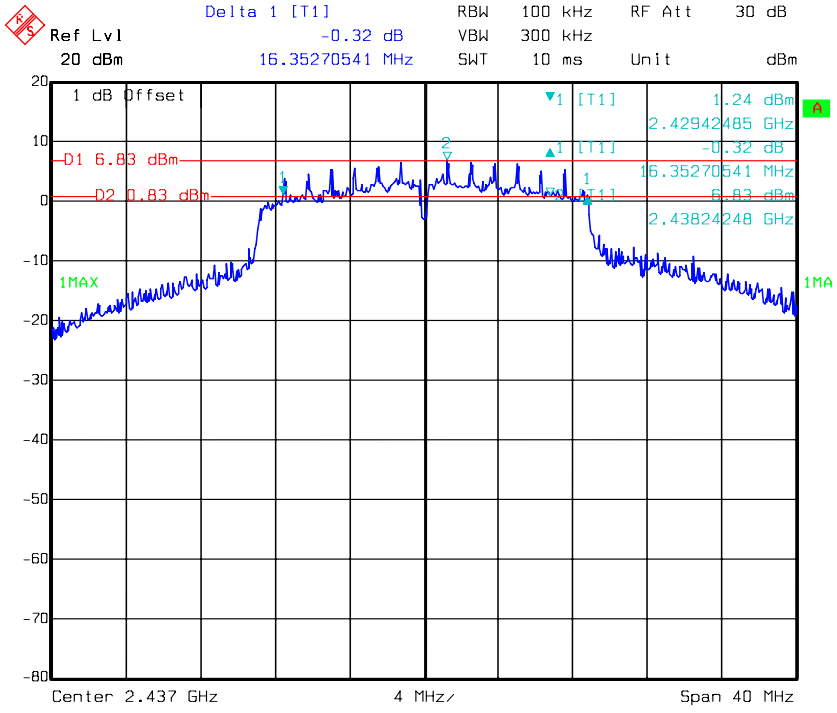
802.11g High Channel



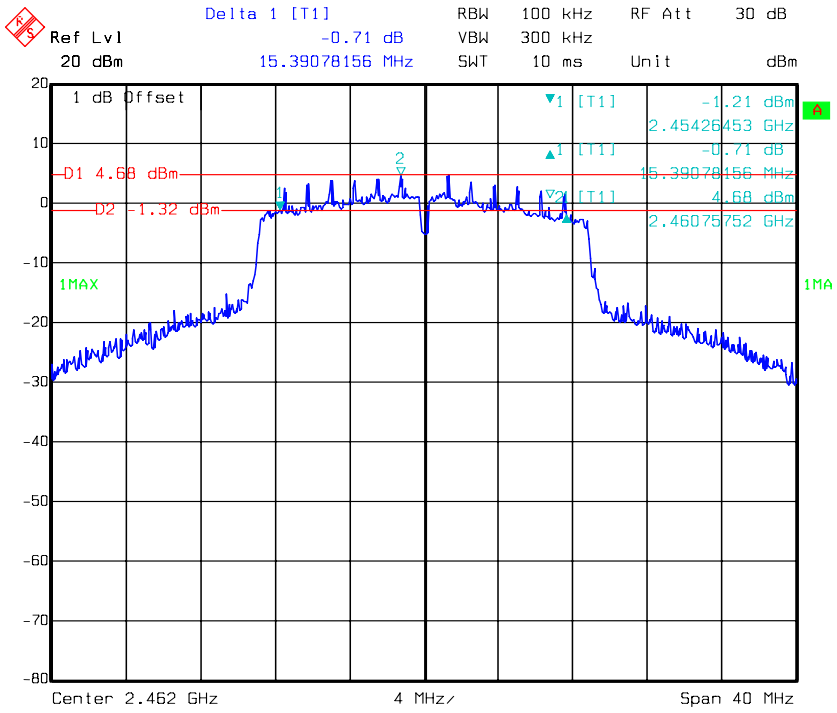
802.11n ht20 Low Channel



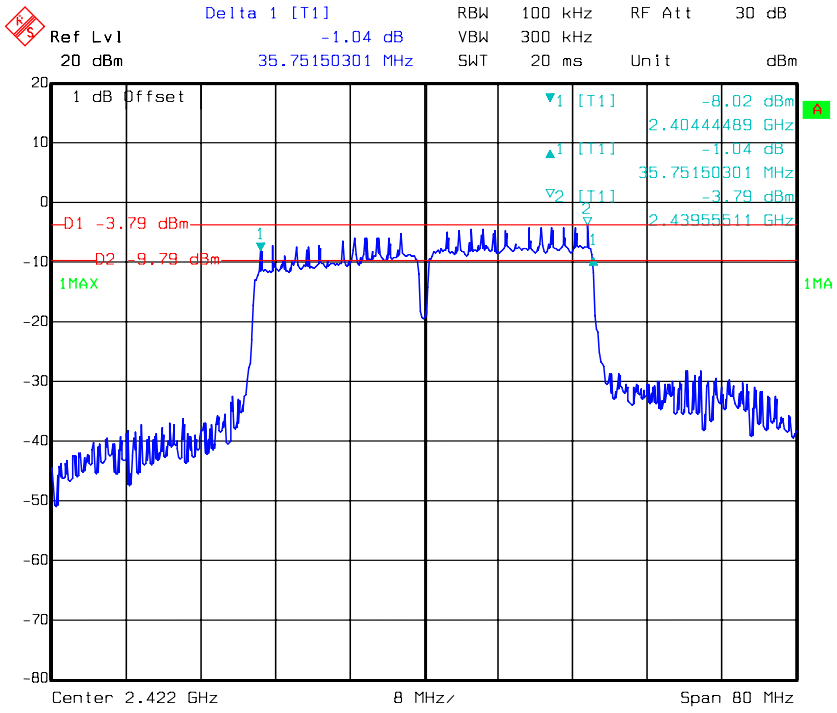
802.11n ht20 Middle Channel



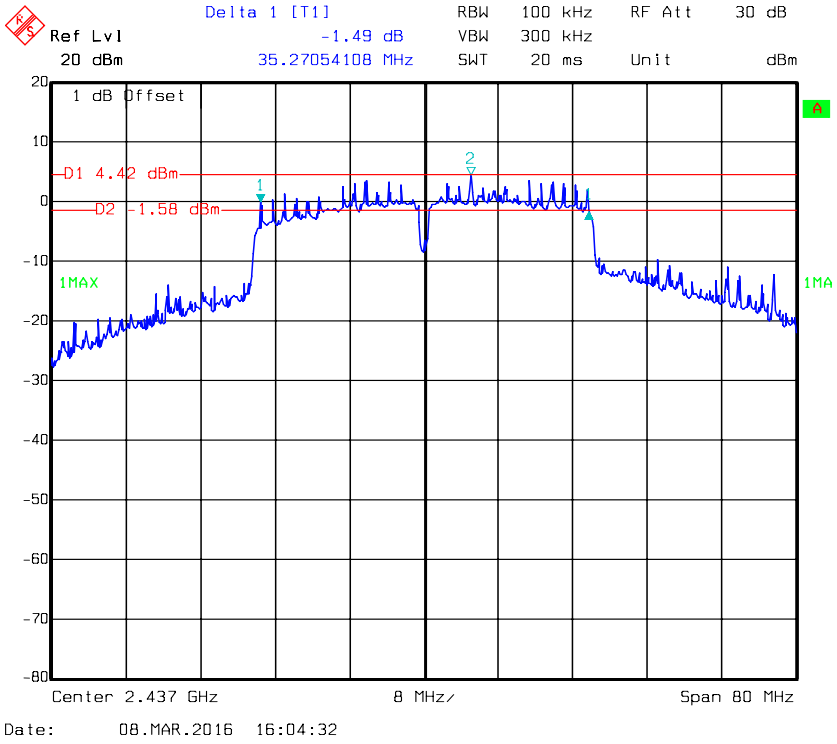
802.11n ht20 High Channel



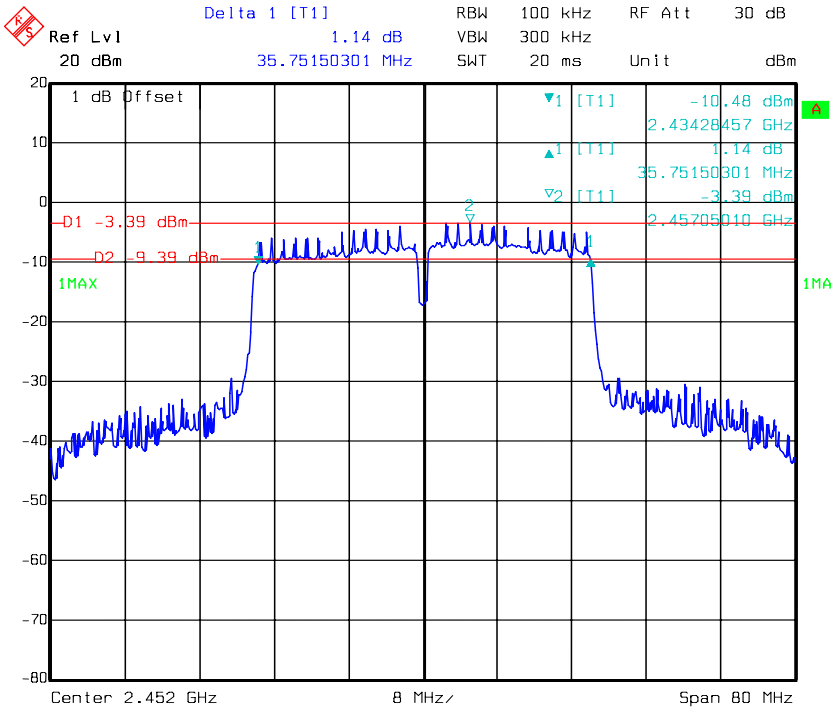
802.11n ht40 Low Channel



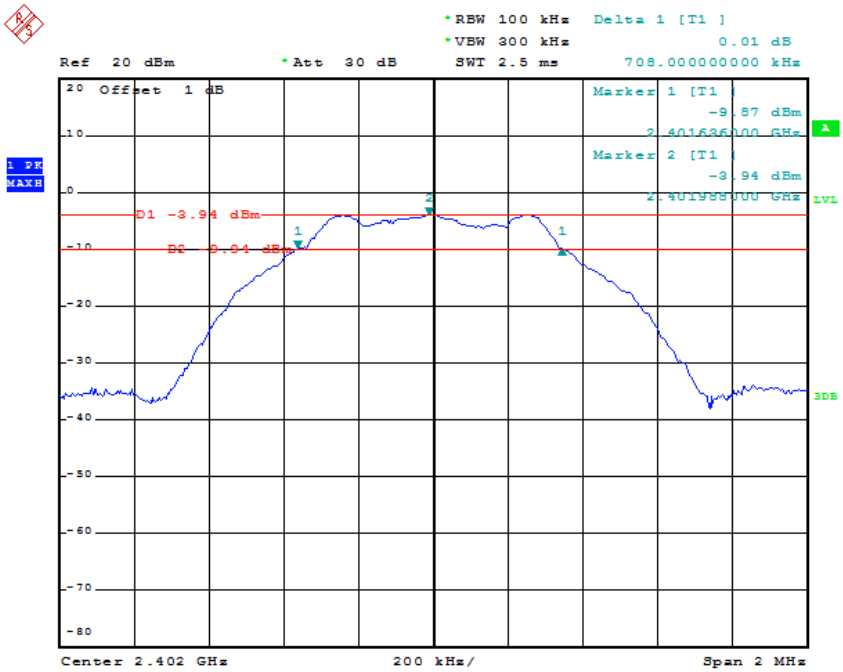
802.11n ht40 Middle Channel



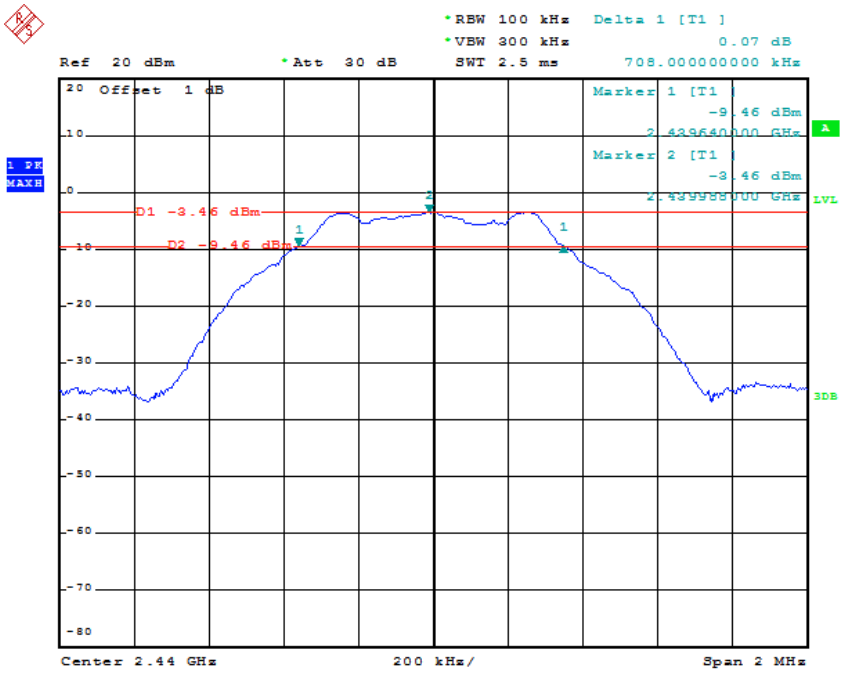
802.11n ht40 High Channel



BLE Low Channel

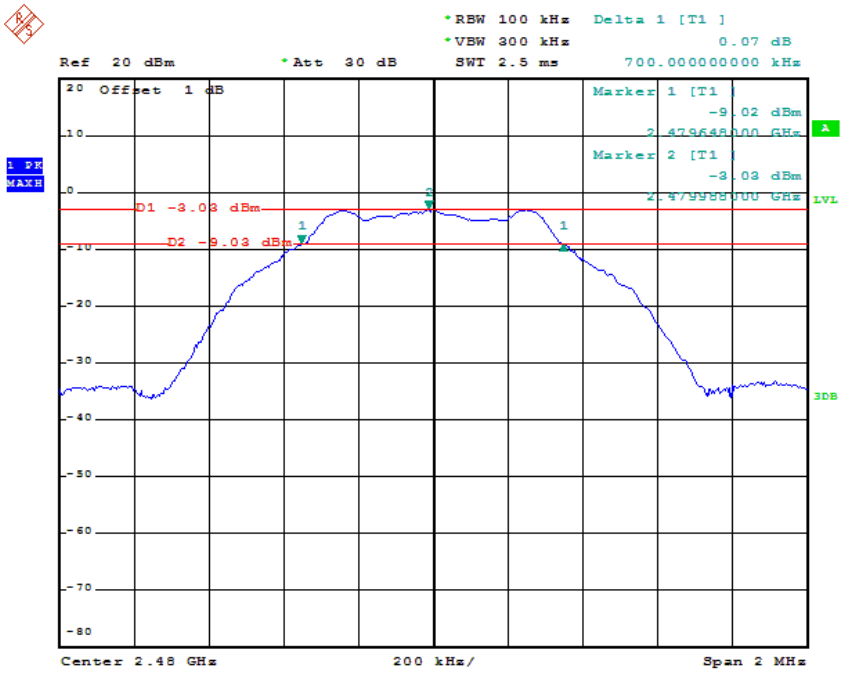


BLE Middle Channel



Date: 11.MAR.2016 21:31:56

BLE High Channel



Date: 11.MAR.2016 21:35:28

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

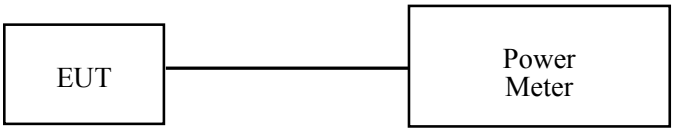
Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r04

1. Place the EUT on a bench 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 test equipment.
3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54210016	2015-11-03	2016-11-03
Agilent	Wideband Power Sensor	N1921A	MY54170013	2015-11-03	2016-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2015-11-03	2016-11-03
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.1 °C
Relative Humidity:	59 %
ATM Pressure:	100.3 kPa

** The testing was performed by Dean Liu on 2016-03-08.*

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table.

Test mode	Channel	Frequency	Max Peak Conducted Output Power	Max Conducted Average Output Power	Limit
		(MHz)	(dBm)	(dBm)	(dBm)
802.11b	Low	2412	17.97	16.3	30
	Middle	2437	21.07	19.49	30
	High	2462	21.14	19.42	30
802.11g	Low	2412	18.91	14.28	30
	Middle	2437	23.1	18.55	30
	High	2462	21.39	16.77	30
802.11n20	Low	2412	17.96	13.39	30
	Middle	2437	23.19	18.59	30
	High	2462	21.09	16.47	30
802.11n40	Low	2422	16.97	9.83	30
	Middle	2437	24.54	17.63	30
	High	2452	17.68	10.54	30
BLE	Low	2402	-2.89	/	30
	Middle	2440	-2.43	/	30
	High	2480	-2.04	/	30

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

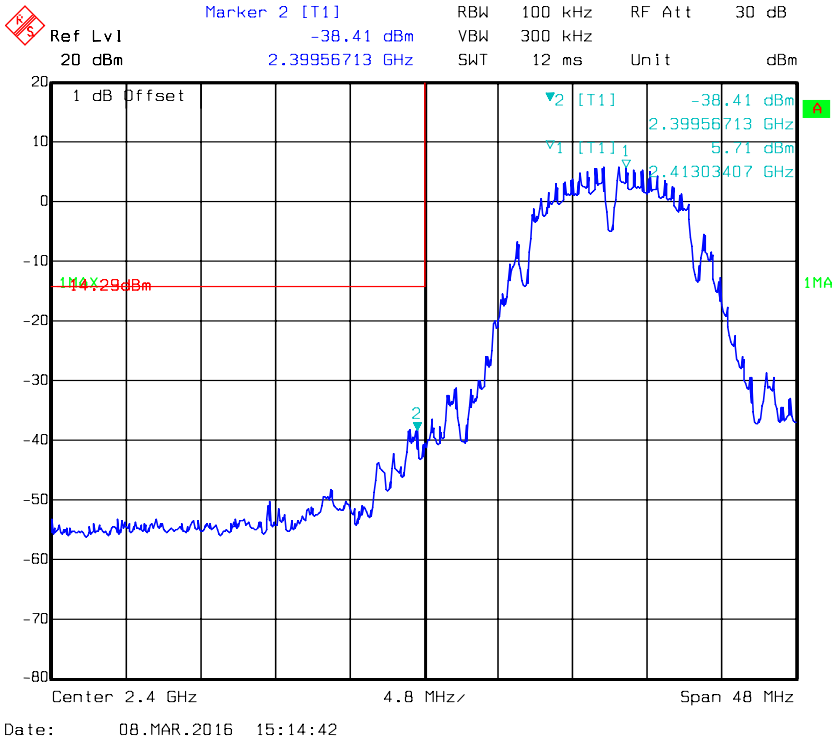
Temperature:	19.1~26.1 °C
Relative Humidity:	41~59 %
ATM Pressure:	100.3~101.8 kPa

** The testing was performed by Dean Liu from 2016-03-08 to 2016-03-11.*

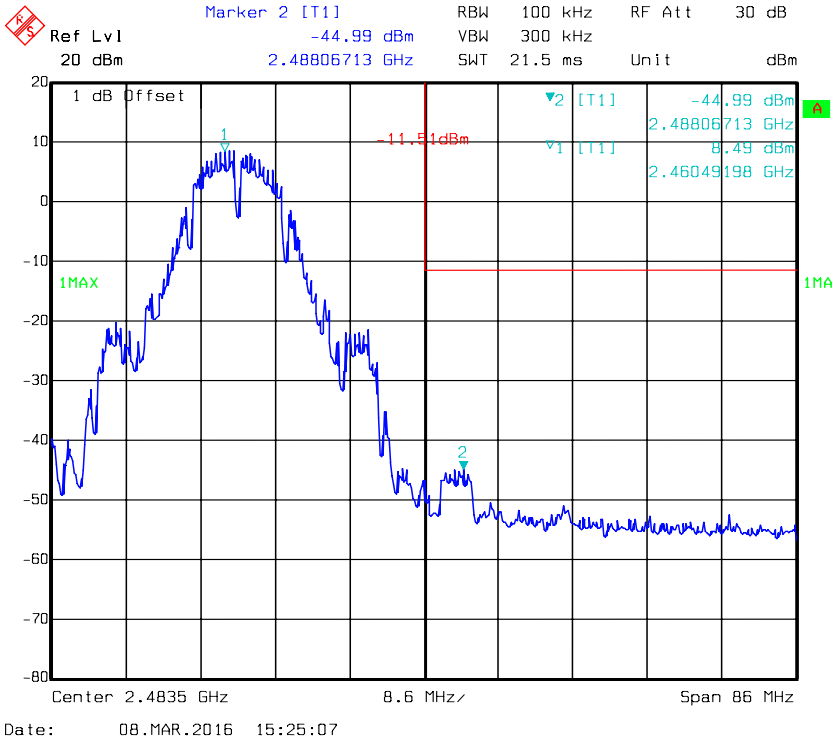
Test mode: Transmitting

Test Result: Compliant. Please refer to following plots.

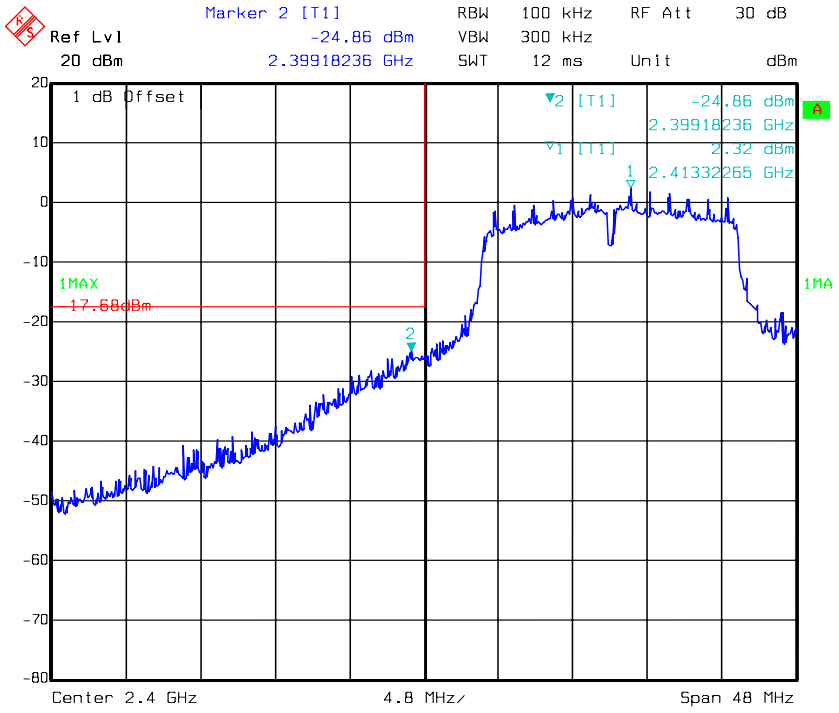
802.11b: Band Edge, Left Side



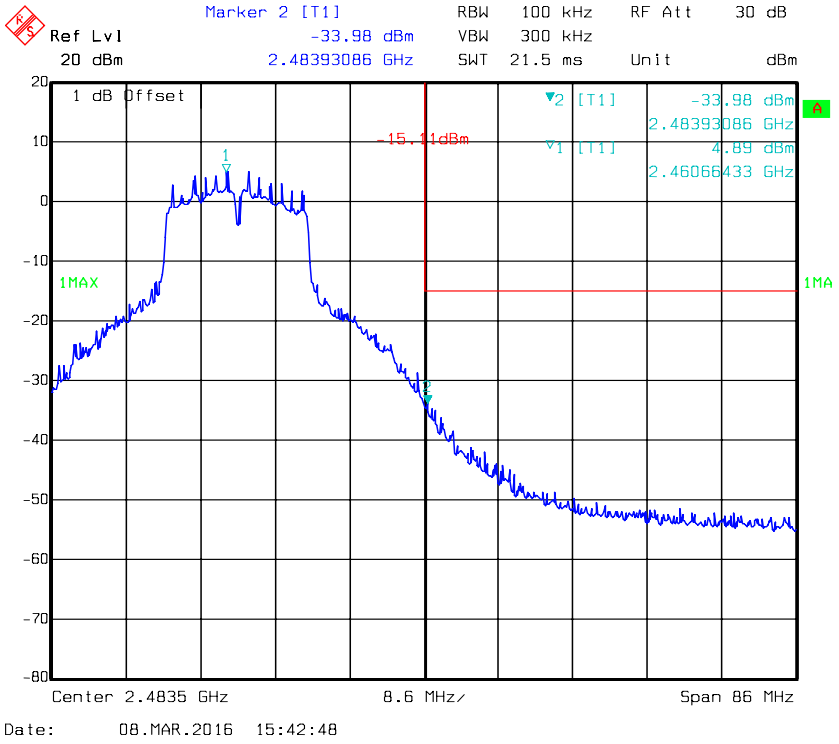
802.11b: Band Edge, Right Side



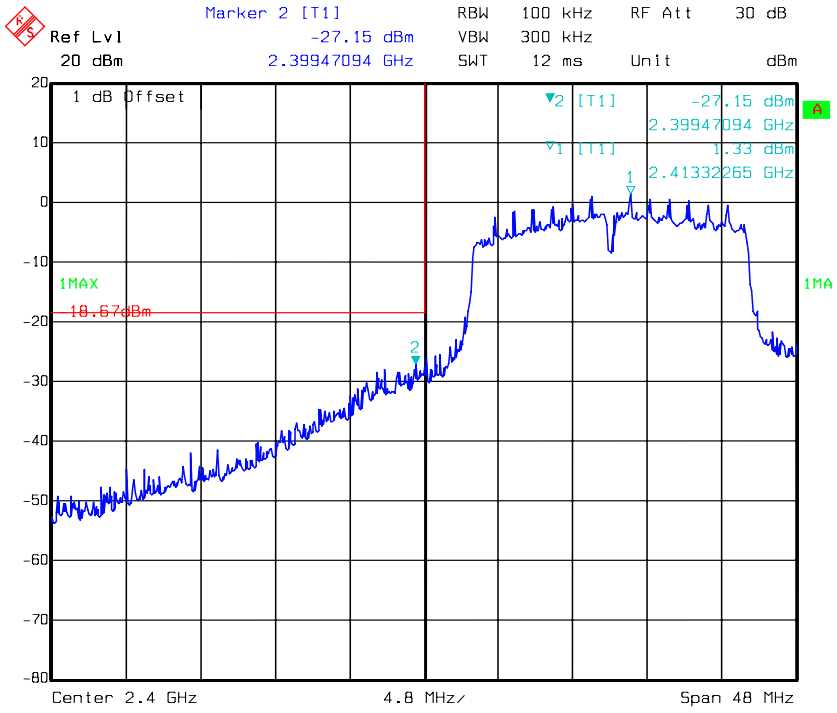
802.11g: Band Edge, Left Side



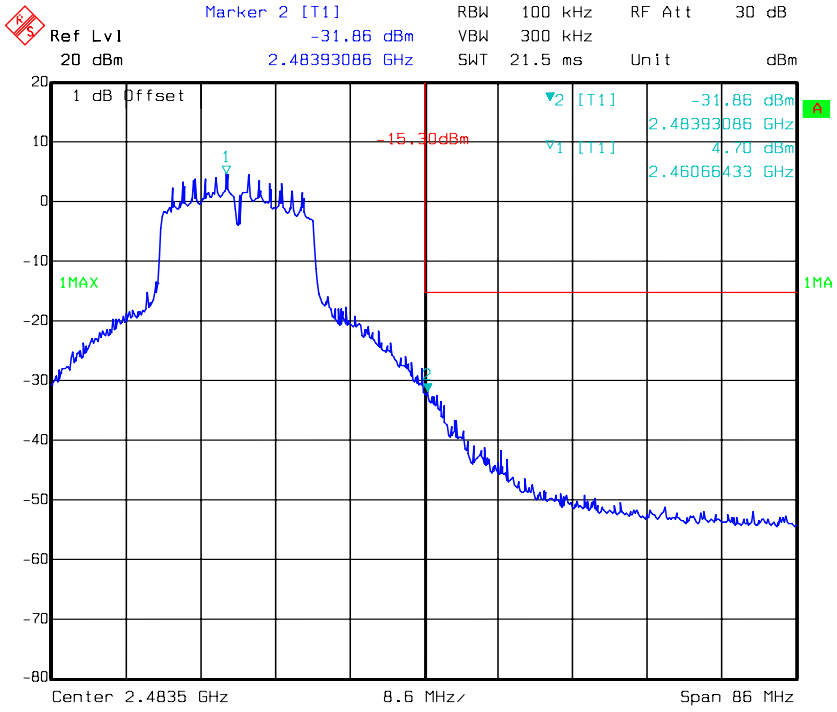
802.11g: Band Edge, Right Side



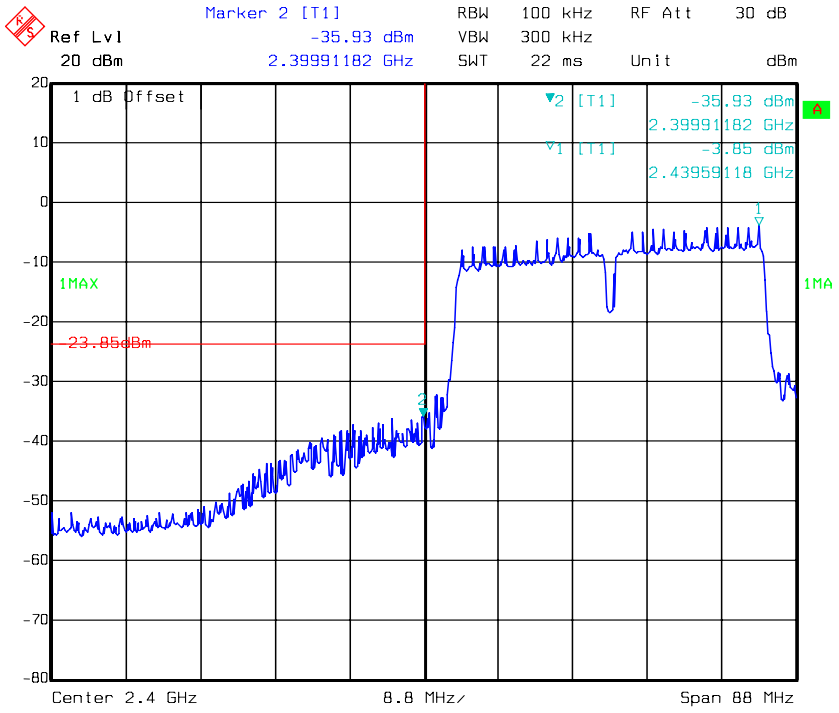
802.11n ht20 Band Edge, Left Side



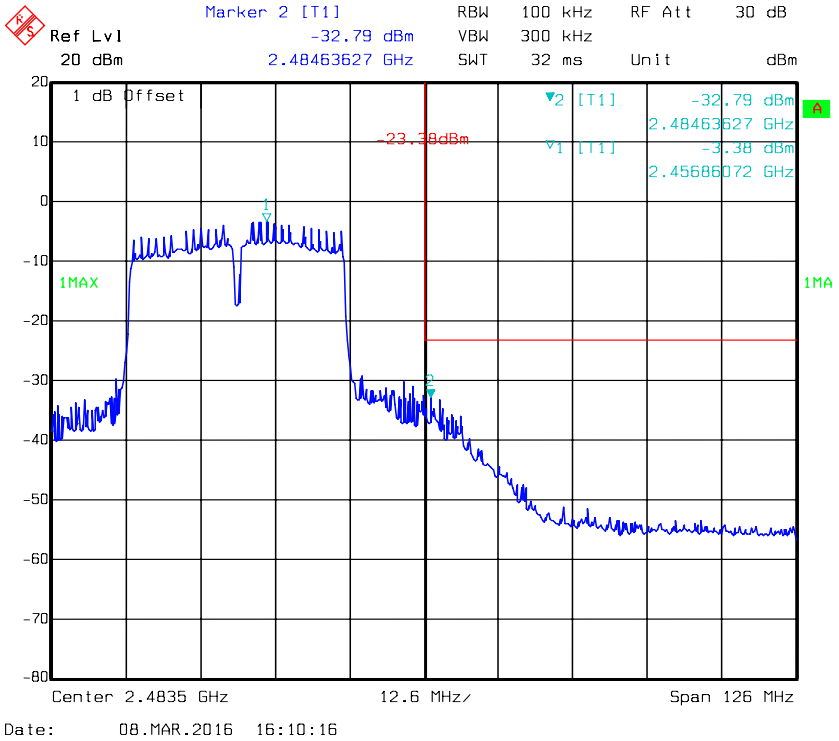
802.11n ht20 Band Edge, Right Side



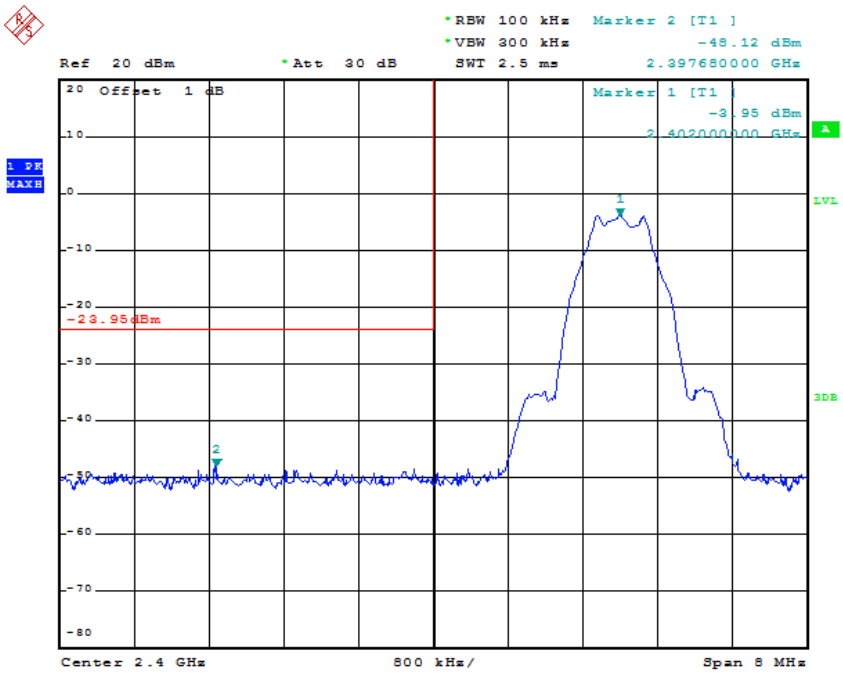
802.11n ht40 Band Edge, Left Side



802.11n ht40 Band Edge, Right Side

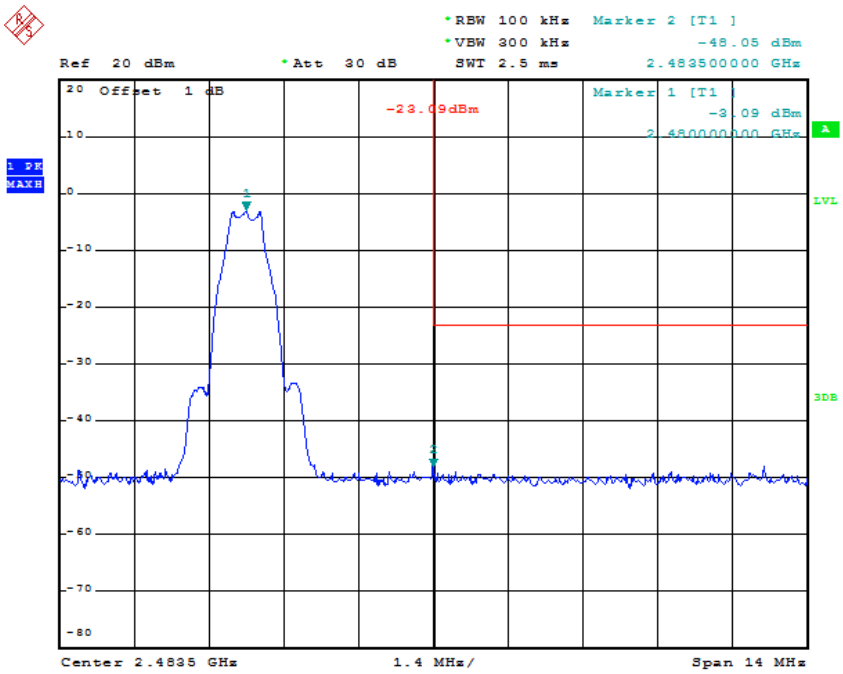


BLE Band Edge， Left Side



Date: 11.MAR.2016 21:34:44

BLE Band Edge, Right Side



Date: 11.MAR.2016 21:36:34

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r04

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 times the DTS bandwidth.
c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ 3×RBW.
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	DE31388	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	19.1~26.1 °C
Relative Humidity:	41~59 %
ATM Pressure:	100.3~101.8 kPa

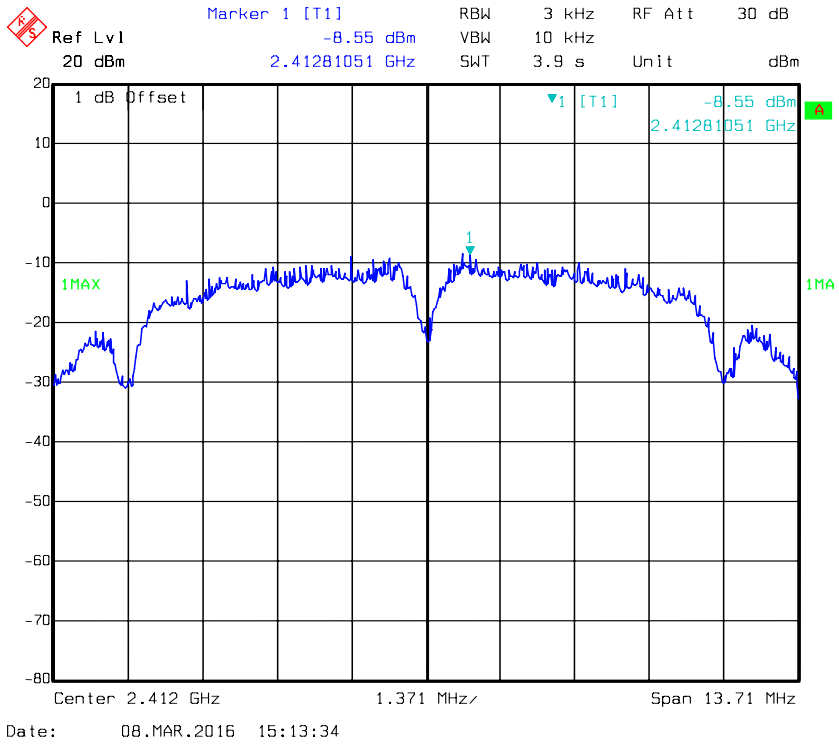
** The testing was performed by Dean Liu from 2016-03-08 to 2016-03-11.*

Test Mode: Transmitting

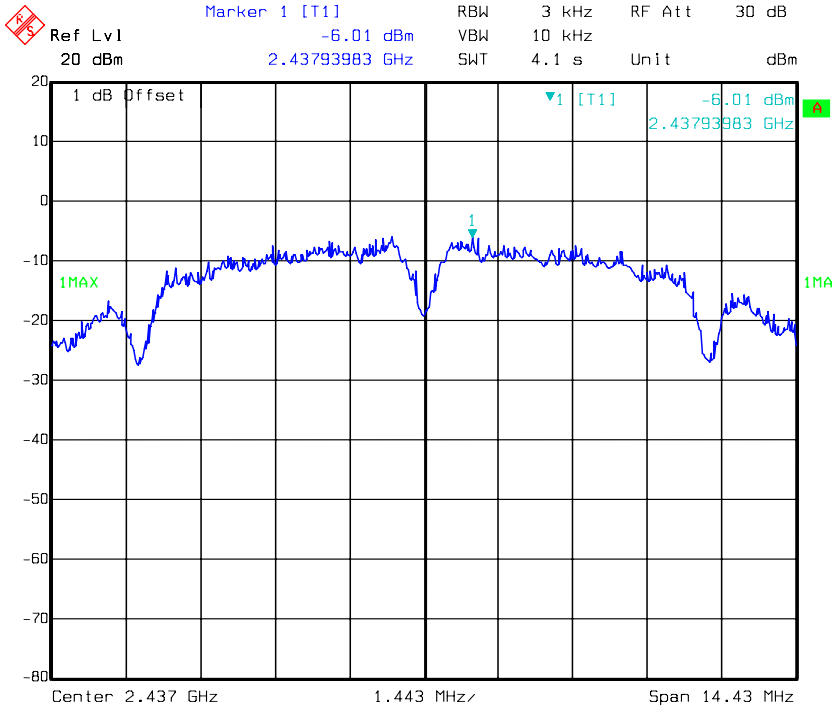
Test Result: Compliant. Please refer to the following table and plots

Test mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	Low	2412	-8.55	≤8
	Middle	2437	-6.01	≤8
	High	2462	-5.90	≤8
802.11g	Low	2412	-12.00	≤8
	Middle	2437	-8.59	≤8
	High	2462	-10.28	≤8
802.11n20	Low	2412	-13.72	≤8
	Middle	2437	-8.57	≤8
	High	2462	-9.75	≤8
802.11n40	Low	2422	-18.76	≤8
	Middle	2437	-11.22	≤8
	High	2452	-18.68	≤8
BLE	Low	2402	-18.62	≤8
	Middle	2440	-18.12	≤8
	High	2480	-17.88	≤8

Power Spectral Density, 802.11b Low Channel

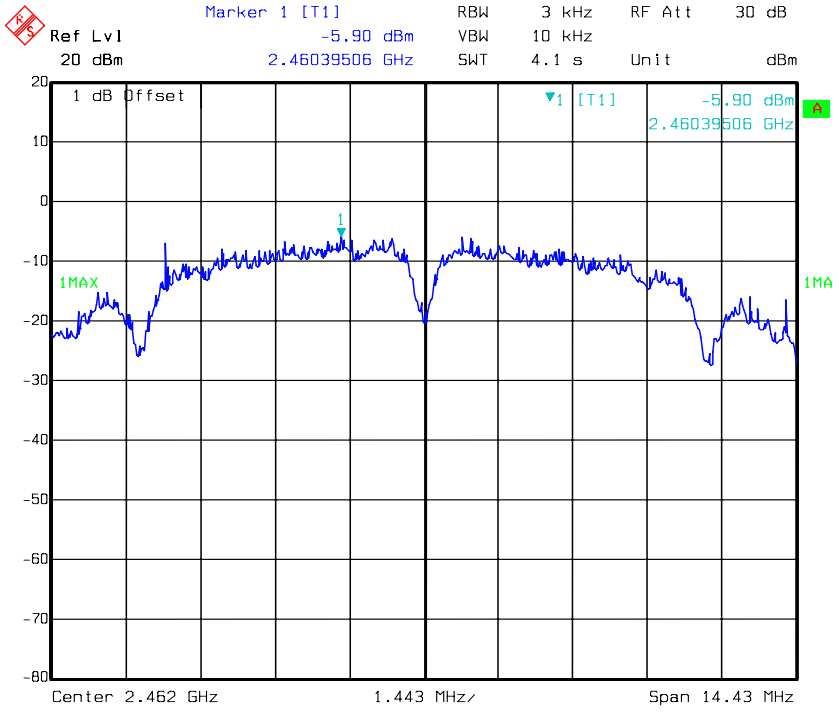


Power Spectral Density, 802.11b Middle Channel



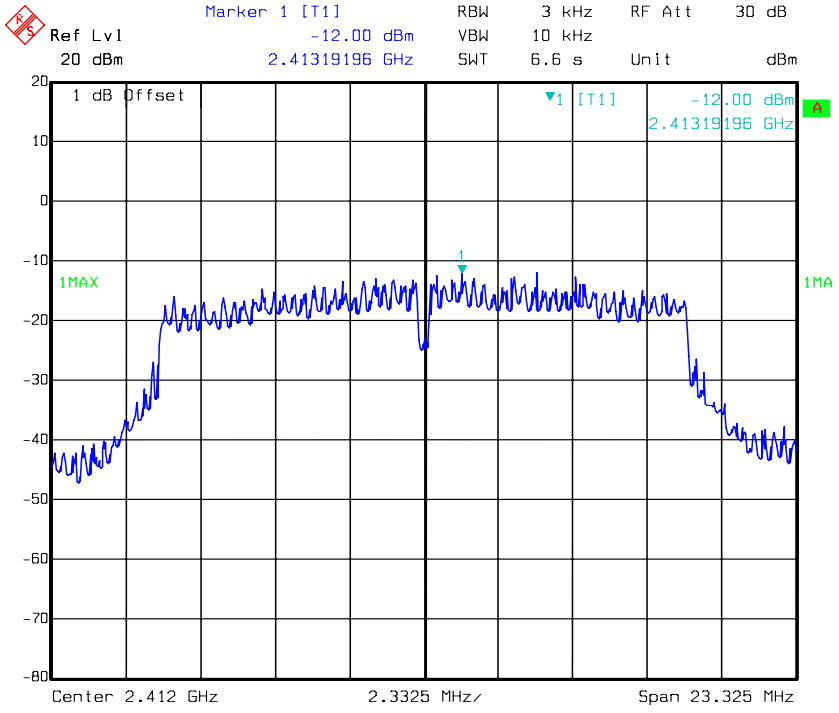
Date: 08.MAR.2016 15:31:11

Power Spectral Density, 802.11b High Channel

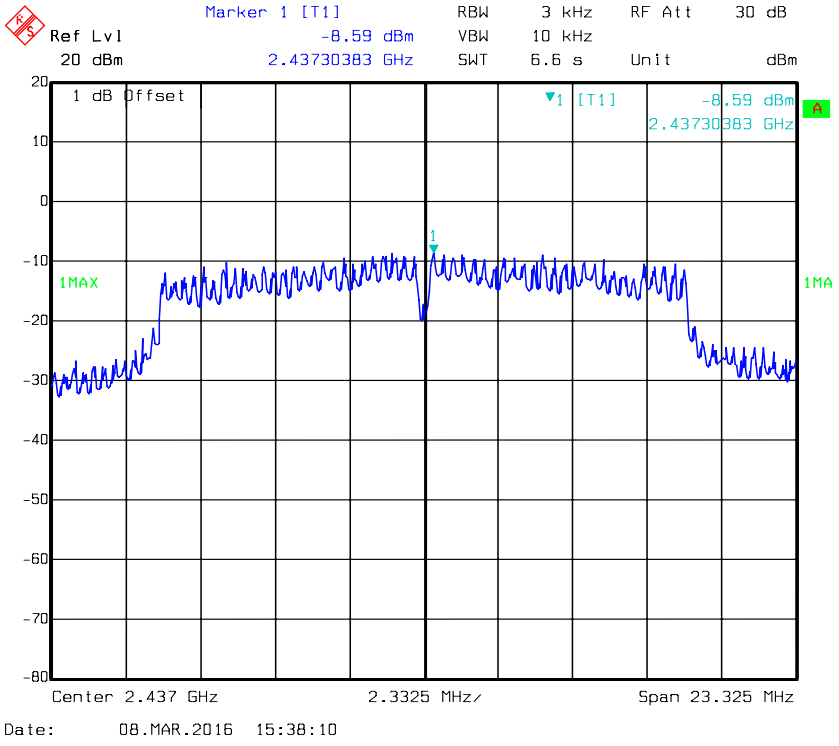


Date: 08.MAR.2016 15:23:56

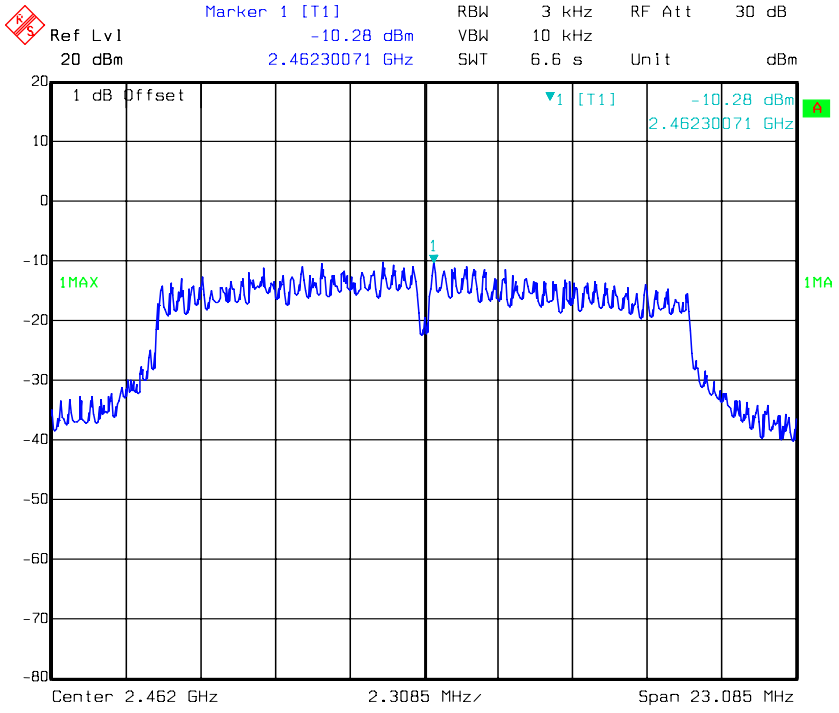
Power Spectral Density, 802.11g Low Channel



Power Spectral Density, 802.11g Middle Channel

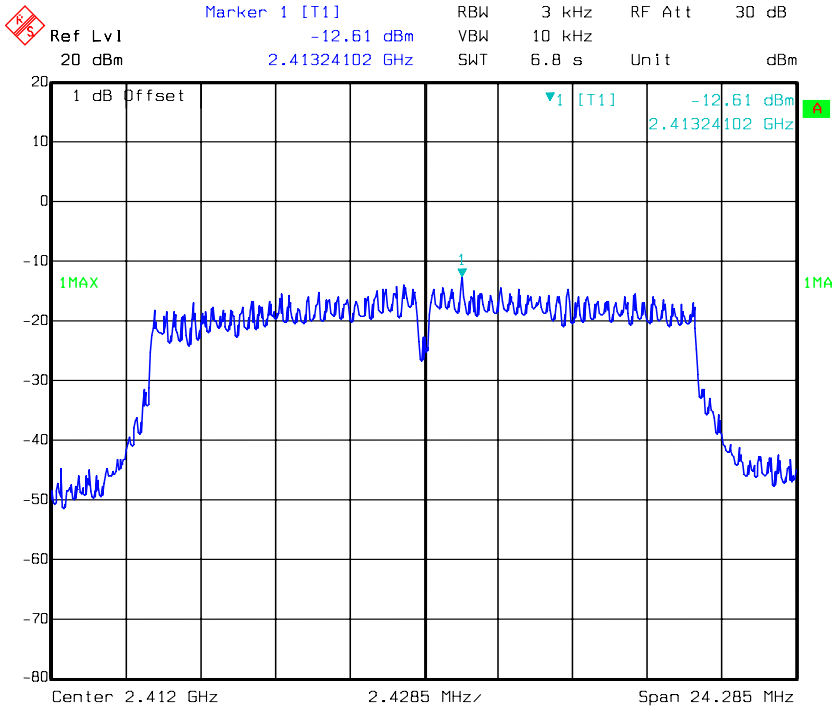


Power Spectral Density, 802.11g High Channel



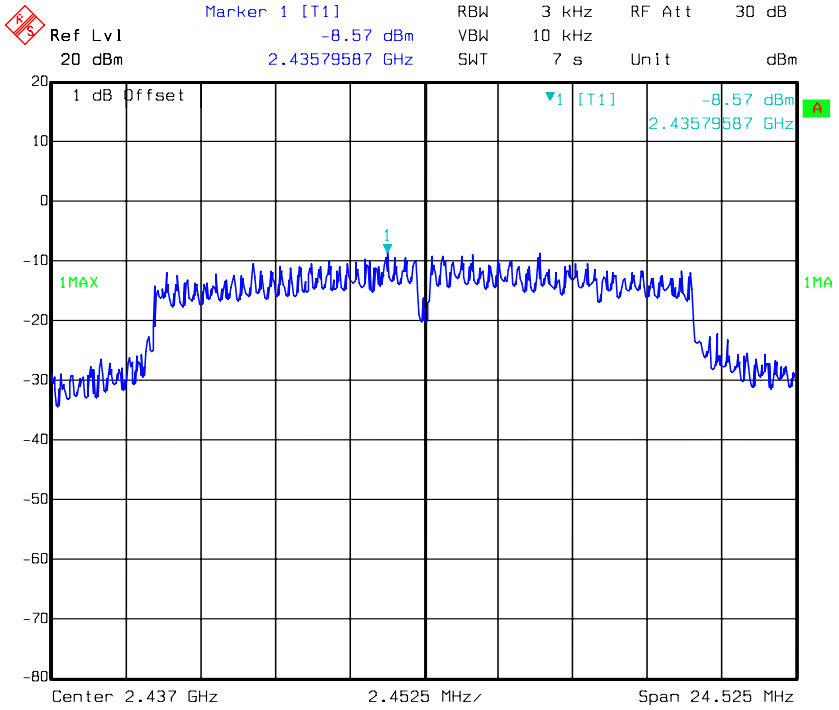
Date: 08.MAR.2016 15:41:55

Power Spectral Density, 802.11n ht20 Low Channel

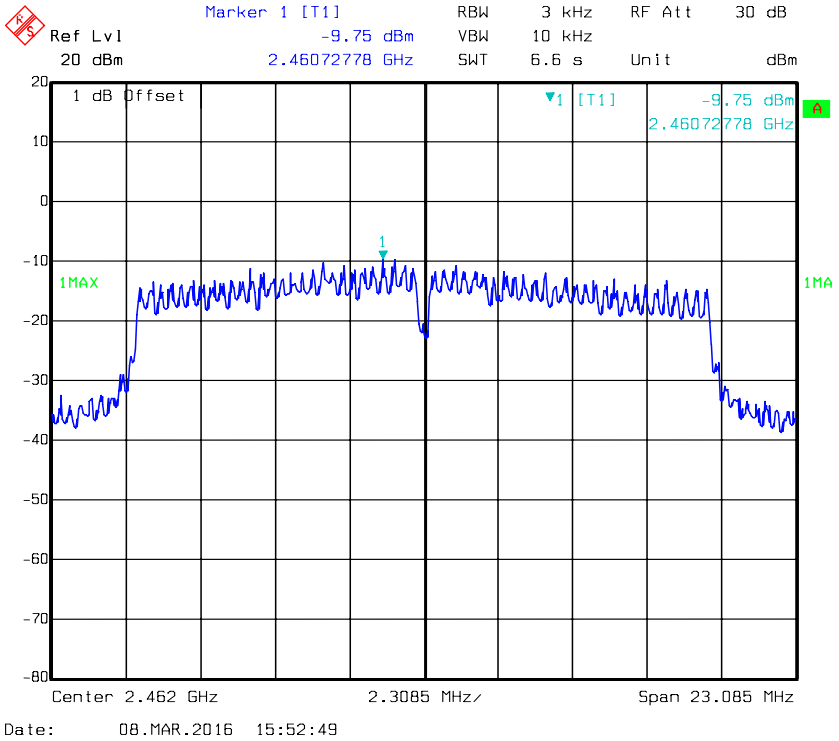


Date: 08.MAR.2016 15:45:45

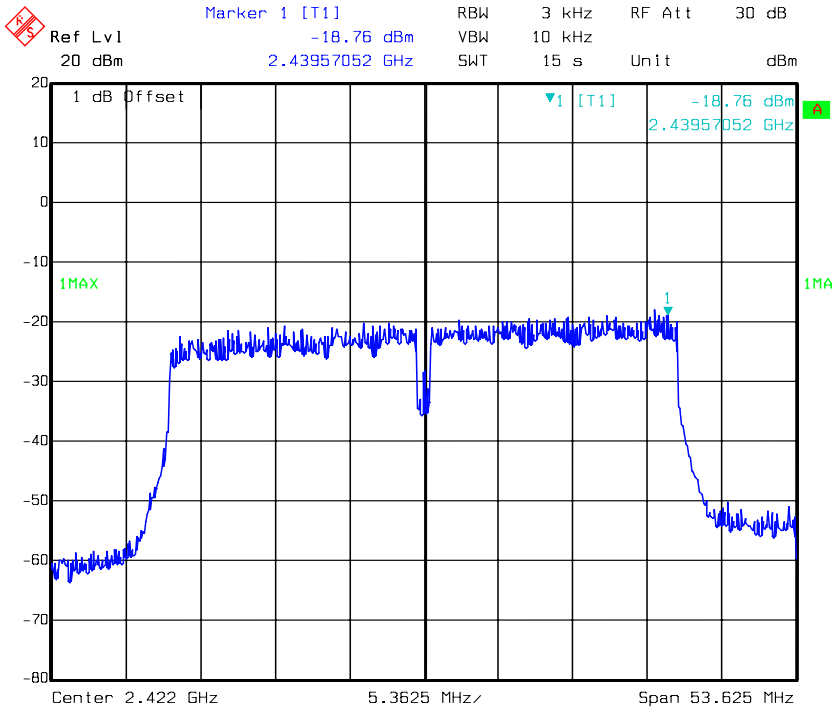
Power Spectral Density, 802.11n ht20 Middle Channel



Power Spectral Density, 802.11n ht20 High Channel

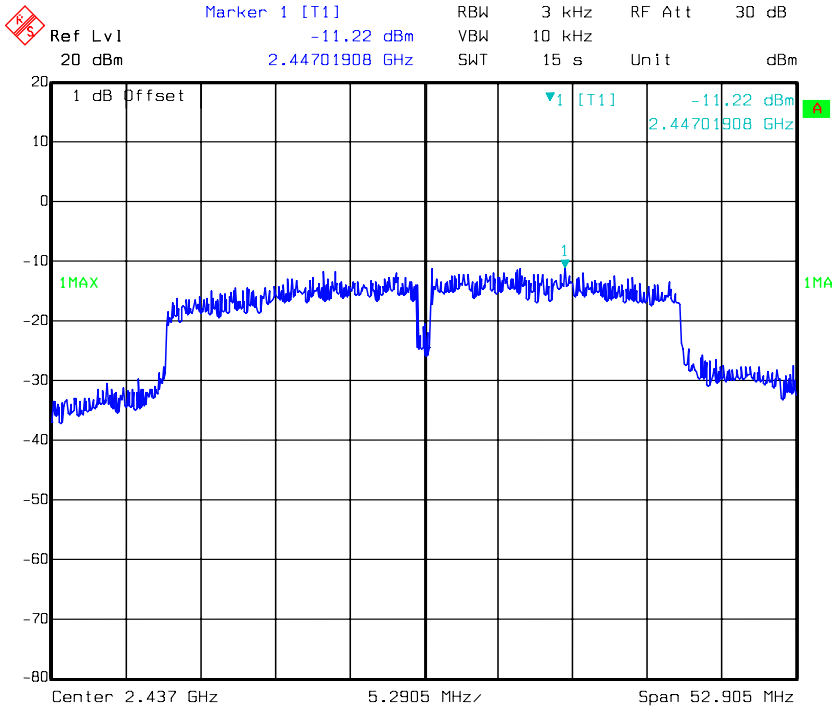


Power Spectral Density, 802.11n ht40 Low Channel



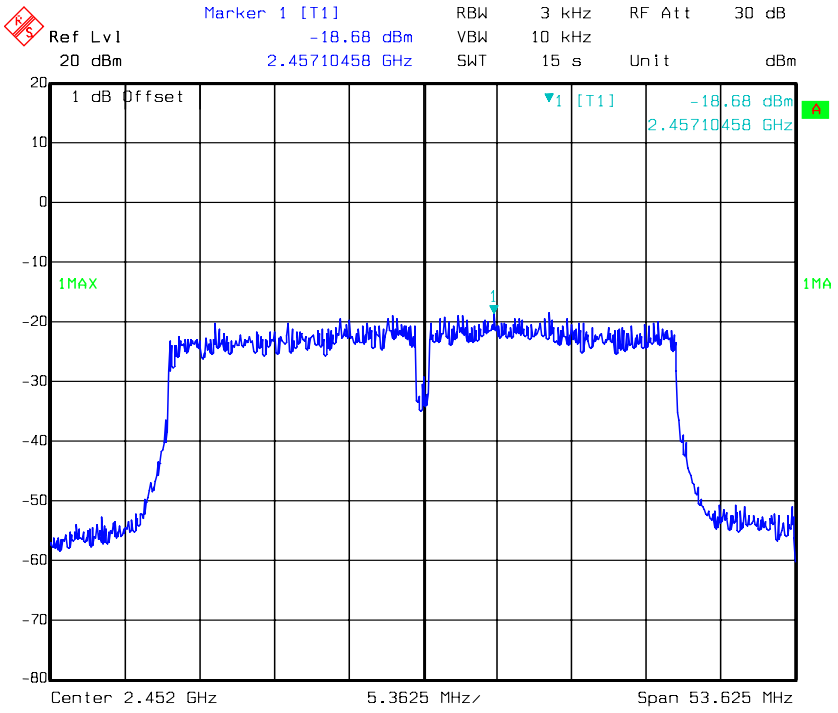
Date: 08.MAR.2016 15:57:50

Power Spectral Density, 802.11n ht40 Middle Channel



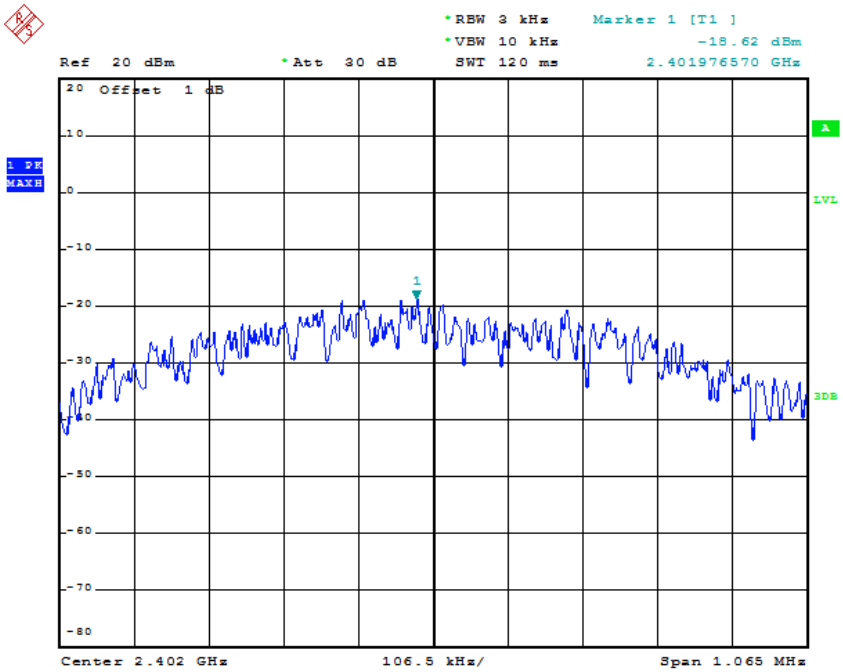
Date: 08.MAR.2016 16:06:18

Power Spectral Density, 802.11n ht40 High Channel



Date: 08.MAR.2016 16:09:18

Power Spectral Density, BLE Low Channel



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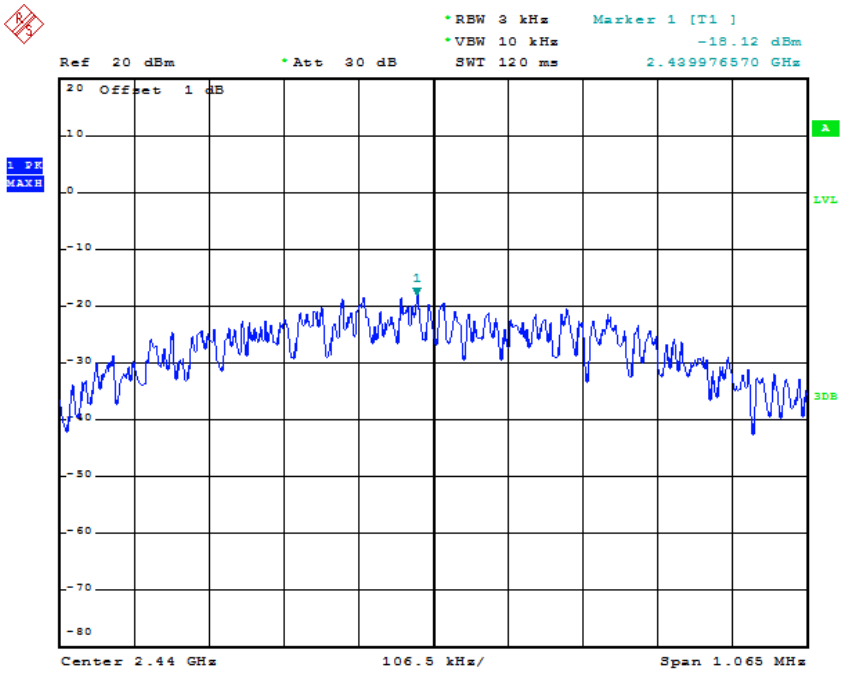
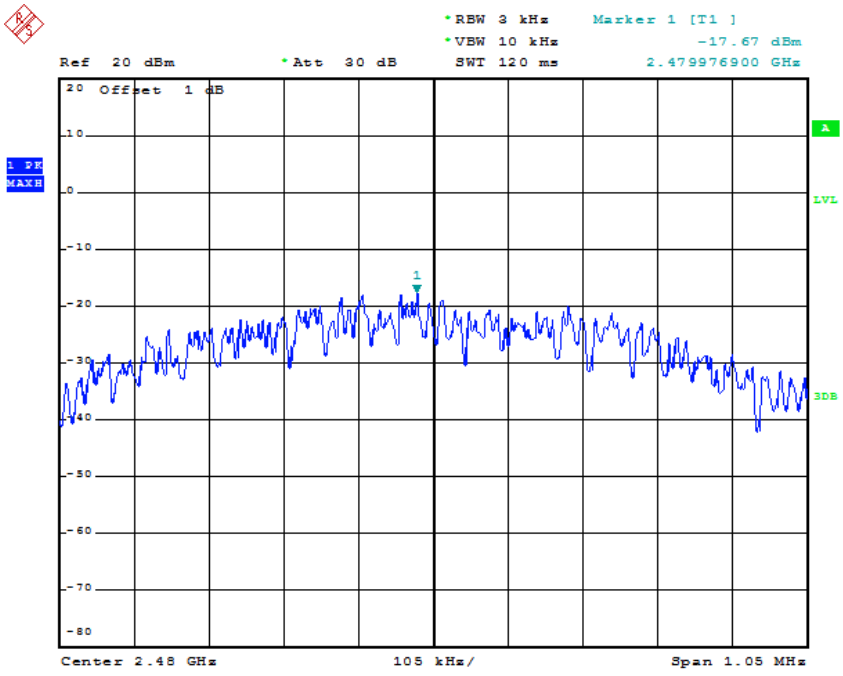
Power Spectral Density, BLE Middle Channel



Date: 11.MAR.2016 21:32:37

Power Spectral Density, BLE High Channel



Date: 11.MAR.2016 21:36:09

DECLARATION LETTER

Posh Mobile Limited
Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong
Tel: 0085221229685 Fax: 0085239044979

DECLARATION OF SIMILARITY

Date: 2016-3-4

FEDERAL COMMUNICATIONS COMMISSION
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Dear Sir or Madam:

We, Posh Mobile Limited, hereby authorize Bay Area Compliance Laboratories Corp. to act as a laboratory for testing and test report generation for the following project(s):

(Product name: Equal Pro LTE FCC ID: 2ABN6L700)

The detail information,please check the reports.hereby declare that the model: L700 is electrically identical with the model: L700A which was tested by BACL with the same electromagnetic emissions and electromagnetic compatibility characteristics. The results of which are featured in BACL projects: RDG160304003, RDG160304003-20

A description of the differences between the two models and that are declared similar are as follows:
They are same motherboard, and just have the different model name ,and L700A has Band4,L700 no has Band4.

The detail information,please check the reports.

Sincerely,
K.N.Chong
Manager
E-mail: poshmobileltd@yahoo.com Tel: 0085221229685
Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

******* END OF REPORT *******