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: 2ABN6S900

Report Type:	**Product Type:**
Original Report	Equal Max

Test Engineer:	Allen Qiao
Report Number:	RDG151008002-00B
Report Date:	2015-10-23
Reviewed By:	Sula Huang RF Leader
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

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Posh Mobile Limited.* 's product, model number: *S900A (FCC ID: 2ABN6S900)* (the "EUT") in this report was a *Equal Max,* which was measured approximately: 23.9 cm (L) x13.6 cm (W) x 1.1 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V charging from adapter.

Adapter information:
Part No.: C01-S900
MODEL:KZ0502000
INPUT: AC100-240V, 50/60Hz 0.5A
OUTPUT: DC5V, 2A

Note: The series product, model S900A,S900B are electrically identical, the difference between them is model name, we selected S900A for testing, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 151008002 (Assigned by BACL, Dongguan). The EUT was received on 2015-10-10

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: 2ABN6S900
FCC Part 15C DSS submissions with FCC ID: 2ABN6S900
FCC Part 22H, 24E PCE submissions with FCC ID: 2ABN6S900

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 to 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 was tested with channel 3, 6 and 9.

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.

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.

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		
802.11b	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level Setting	9	9.5	10
802.11g	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level Setting	11	11	11.5
802.11n ht20	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	MCS0	MCS0	MCS0
	Power Level Setting	11	11	11
802.11n Ht40	Test Frequency	2422MHz	2437MHz	2452MHz
	Data Rate	MCS0	MCS0	MCS0
	Power Level Setting	13.5	13.5	13.5
BLE	Test Frequency	2402MHz	2440MHz	2480MHz
	Power Level Setting	N/A	N/A	N/A

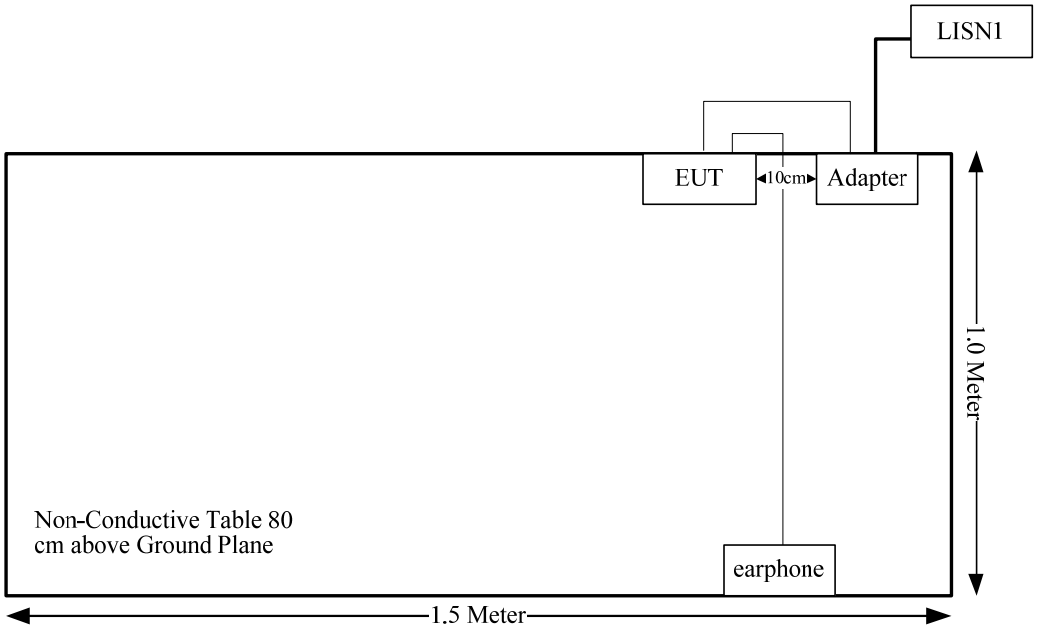
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	Yes	No	0.8	USB Port of Adapter	EUT
Earphone Cable	No	No	1.0	Audio Port of EUT	EUT

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 v05r02:

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
The maximum target conducted average output power = 9.60 dBm (9.12mW) at 2462 MHz
[(max. power of channel, mW)/(min.test separation distance, mm)][√f(GHz)]
= 9.12/5*(√2.462) = 2.87 < 3.0

For Bluetooth LE mode
The maximum target peak conducted output power = -5.8 dBm (0.26mW) at 2480 MHz
[(max. power of channel, mW)/(min.test separation distance, mm)][√f(GHz)]
= 0.26/5*(√2.48) = 0.082 < 3.0

So the stand-alone SAR evaluation for 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 integral antenna arrangement for WiFi/BT, which was permanently attached and the antenna gain is 1.0 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：

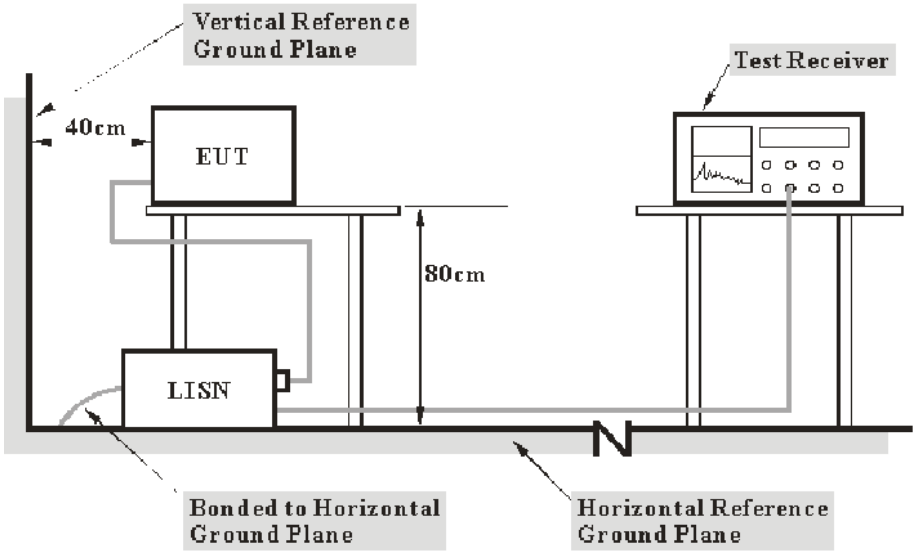
If U_{lab} is less than or equal to U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
If U_{lab} is greater than U_{cispr} of 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 3.46 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	2014-10-20	2015-10-20
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	2014-12-11	2015-12-11
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:

5.0 dB at **0.378019 MHz** in the **Neutral** conducted mode

Test Data

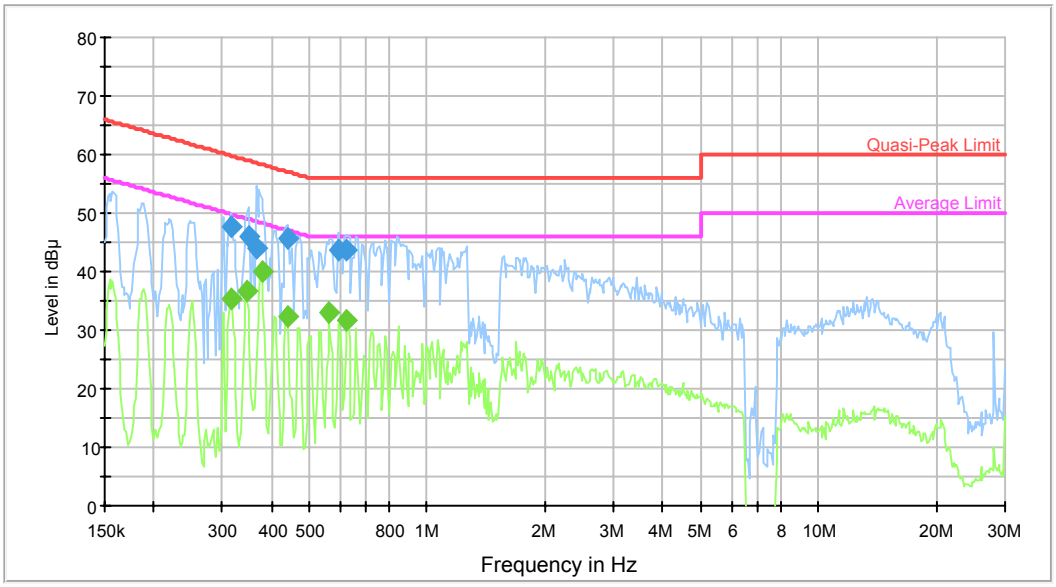
Environmental Conditions

Temperature:	26.9°C
Relative Humidity:	47%
ATM Pressure:	101.4 kPa

The testing was performed by Allen Qiao on 2015-10-13

Test Mode: Transmitting (WiFi)

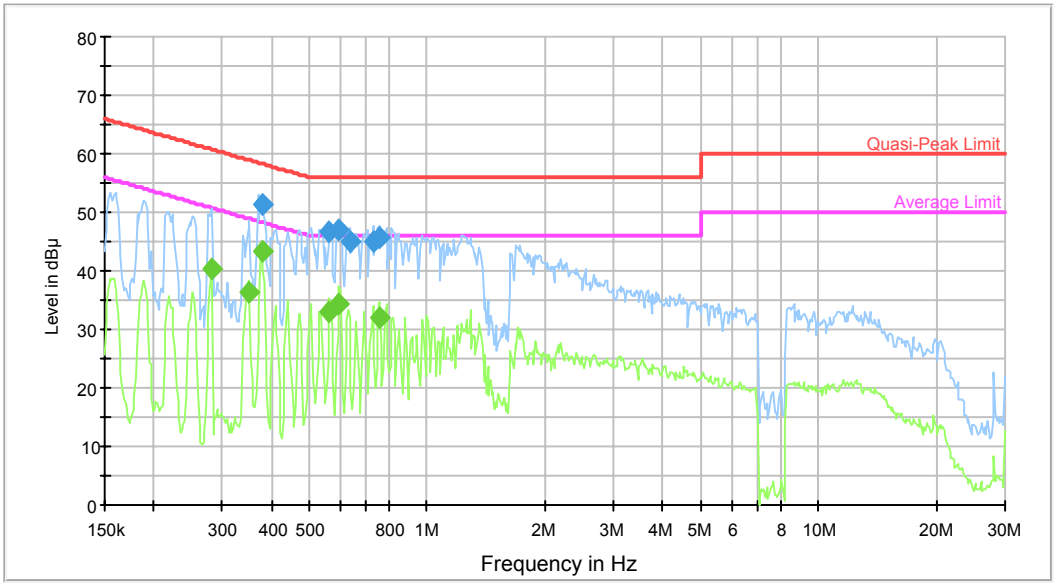
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.317235	47.7	9.000	L1	9.8	12.1	59.8	Compliance
0.351859	46.0	9.000	L1	9.8	12.9	58.9	Compliance
0.366160	44.1	9.000	L1	9.8	14.5	58.6	Compliance
0.443327	45.8	9.000	L1	9.8	11.2	57.0	Compliance
0.590613	43.7	9.000	L1	9.8	12.3	56.0	Compliance
0.624492	43.8	9.000	L1	9.8	12.2	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.314718	35.2	9.000	L1	9.8	14.6	49.8	Compliance
0.346296	36.8	9.000	L1	9.8	12.2	49.1	Compliance
0.378019	39.9	9.000	L1	9.8	8.4	48.3	Compliance
0.439808	32.4	9.000	L1	9.8	14.6	47.1	Compliance
0.563041	33.1	9.000	L1	9.8	12.9	46.0	Compliance
0.624492	31.7	9.000	L1	9.8	14.3	46.0	Compliance

AC120 V, 60 Hz, Neutral:

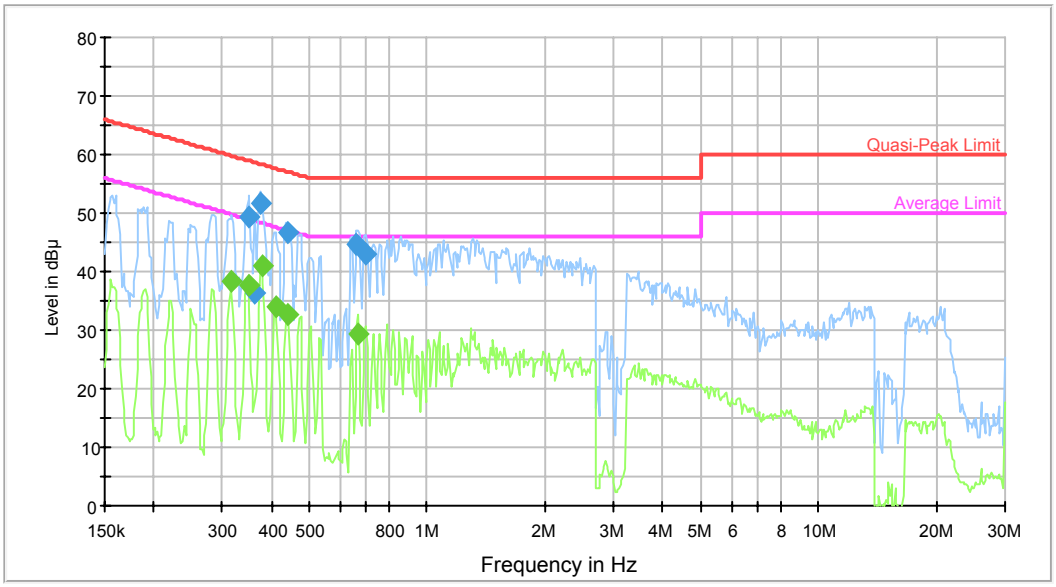


Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.378019	51.4	9.000	N	9.8	6.9	58.3	Compliance
0.563041	46.5	9.000	N	9.8	9.5	56.0	Compliance
0.595338	46.9	9.000	N	9.8	9.1	56.0	Compliance
0.634524	44.9	9.000	N	9.8	11.1	56.0	Compliance
0.726569	45.1	9.000	N	9.8	10.9	56.0	Compliance
0.756101	45.6	9.000	N	9.8	10.4	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.281497	40.4	9.000	N	9.8	10.4	50.8	Compliance
0.349066	36.5	9.000	N	9.8	12.5	49.0	Compliance
0.378019	43.3	9.000	N	9.8	5.0	48.3	Compliance
0.563041	32.9	9.000	N	9.8	13.1	46.0	Compliance
0.595338	34.3	9.000	N	9.8	11.7	46.0	Compliance
0.756101	32.0	9.000	N	9.8	14.0	46.0	Compliance

Test Mode: Transmitting (BLE)

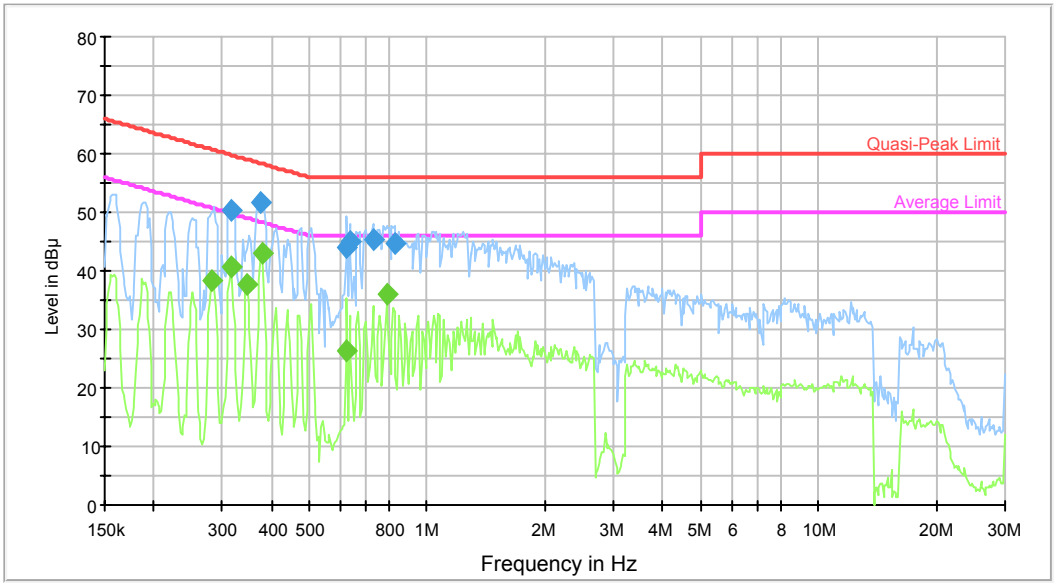
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.351859	49.3	9.000	L1	9.8	9.6	58.9	Compliance
0.363254	36.5	9.000	L1	9.8	22.2	58.7	Compliance
0.375019	51.7	9.000	L1	9.8	6.7	58.4	Compliance
0.443327	46.8	9.000	L1	9.8	10.2	57.0	Compliance
0.660314	44.7	9.000	L1	9.8	11.3	56.0	Compliance
0.698191	43.0	9.000	L1	9.8	13.0	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.314718	38.2	9.000	L1	9.8	11.7	49.8	Compliance
0.349066	37.7	9.000	L1	9.8	11.3	49.0	Compliance
0.378019	40.9	9.000	L1	9.8	7.4	48.3	Compliance
0.409372	34.1	9.000	L1	9.8	13.5	47.7	Compliance
0.439808	32.6	9.000	L1	9.8	14.5	47.1	Compliance
0.665597	29.5	9.000	L1	9.8	16.5	46.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.317235	50.5	9.000	N	9.8	9.3	59.8	Compliance
0.375019	51.6	9.000	N	9.8	6.8	58.4	Compliance
0.624492	44.1	9.000	N	9.8	11.9	56.0	Compliance
0.634524	44.9	9.000	N	9.8	11.1	56.0	Compliance
0.726569	45.3	9.000	N	9.8	10.7	56.0	Compliance
0.825364	44.7	9.000	N	9.8	11.3	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.281497	38.4	9.000	N	9.8	12.4	50.8	Compliance
0.317235	40.8	9.000	N	9.8	9.0	49.8	Compliance
0.346296	37.7	9.000	N	9.8	11.3	49.1	Compliance
0.378019	43.1	9.000	N	9.8	5.2	48.3	Compliance
0.624492	26.3	9.000	N	9.8	19.7	46.0	Compliance
0.786832	35.9	9.000	N	9.8	10.1	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.

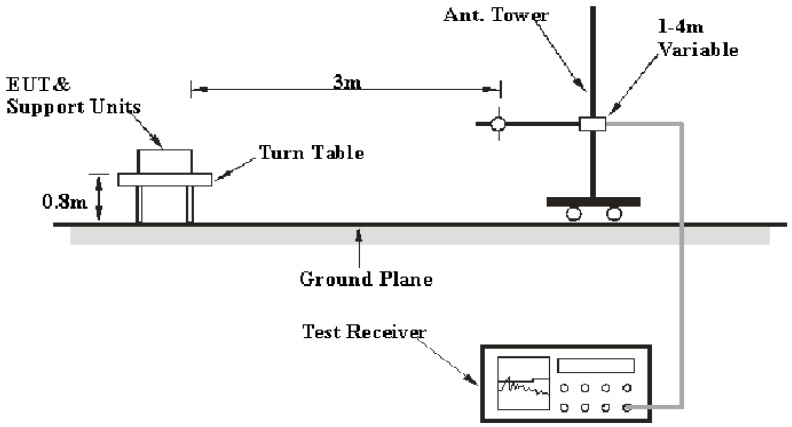
Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:
30M~200MHz: 5.0 dB
200M~1GHz: 6.2 dB
1G~6GHz: 4.45 dB
6G~18GHz: 5.23 dB

Table 2 – Values of U_{cispr}

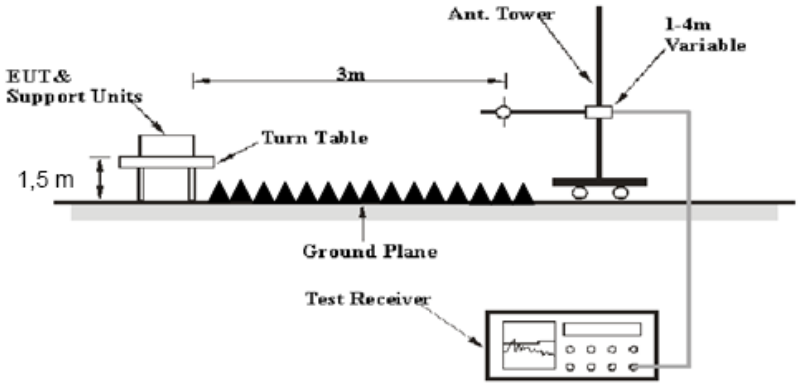
Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

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	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
R&S	Spectrum Analyzer	E4440A	SG43360054	2014-12-04	2015-12-04
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
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

*** 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:

0.28 dB at **4824 MHz** in the **Vertical** polarization for 802.11b mode

Test Data

Environmental Conditions

Temperature:	26.5 °C
Relative Humidity:	52 %
ATM Pressure:	100.8 kPa

** The testing was performed by Allen Qiao on 2015-10-15*

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	56.78	PK	H	28.49	3.68	0.00	88.95	N/A	N/A
2412	53.24	AV	H	28.49	3.68	0.00	85.41	N/A	N/A
2412	55.21	PK	V	28.49	3.68	0.00	87.38	N/A	N/A
2412	51.89	AV	V	28.49	3.68	0.00	84.06	N/A	N/A
2390	25.84	PK	H	28.44	3.63	0.00	57.91	74.00	16.09
2390	13.3	AV	H	28.44	3.63	0.00	45.37	54.00	8.63
4824	44.64	PK	V	33.20	5.03	27.41	55.46	74.00	18.54
4824	42.9	AV	V	33.20	5.03	27.41	53.72	54.00	0.28 *
7236	32.25	PK	H	36.42	6.65	25.90	49.42	74.00	24.58
7236	18.69	AV	H	36.42	6.65	25.90	35.86	54.00	18.14
9648	30.56	PK	H	38.37	8.55	27.46	50.02	74.00	23.98
9648	16.97	AV	H	38.37	8.55	27.46	36.43	54.00	17.57
3115	34.64	PK	H	31.24	6.88	27.44	45.32	74.00	28.68
3115	22.11	AV	H	31.24	6.88	27.44	32.79	54.00	21.21
240.49	38.58	QP	H	12.22	1.86	21.48	31.18	46.00	14.82
Middle Channel: 2437 MHz									
2437	57.01	PK	H	28.55	3.75	0.00	89.31	N/A	N/A
2437	53.38	AV	H	28.55	3.75	0.00	85.68	N/A	N/A
2437	55.31	PK	V	28.55	3.75	0.00	87.61	N/A	N/A
2437	52.09	AV	V	28.55	3.75	0.00	84.39	N/A	N/A
4874	42.37	PK	H	33.37	5.14	27.42	53.46	74.00	20.54
4874	39.84	AV	H	33.37	5.14	27.42	50.93	54.00	3.07 *
7311	32.19	PK	H	36.56	6.74	25.88	49.61	74.00	24.39
7311	18.6	AV	H	36.56	6.74	25.88	36.02	54.00	17.98
9748	30.51	PK	H	38.35	8.61	27.24	50.23	74.00	23.77
9748	16.96	AV	H	38.35	8.61	27.24	36.68	54.00	17.32
3115	34.67	PK	H	31.24	6.88	27.44	45.35	74.00	28.65
3115	22.15	AV	H	31.24	6.88	27.44	32.83	54.00	21.17
3610	34.79	PK	H	32.57	4.61	27.28	44.69	74.00	29.31
3610	22.33	AV	H	32.57	4.61	27.28	32.23	54.00	21.77
240.49	38.22	QP	H	12.22	1.86	21.48	30.82	46.00	15.18
High Channel: 2462 MHz									
2462	57.11	PK	H	28.61	3.75	0.00	89.47	N/A	N/A
2462	53.87	AV	H	28.61	3.75	0.00	86.23	N/A	N/A
2462	56	PK	V	28.61	3.75	0.00	88.36	N/A	N/A
2462	52.53	AV	V	28.61	3.75	0.00	84.89	N/A	N/A
2483.5	26.62	PK	H	28.66	3.67	0.00	58.95	74.00	15.05
2483.5	13.96	AV	H	28.66	3.67	0.00	46.29	54.00	7.71
4924	43.15	PK	V	33.54	5.34	27.43	54.60	74.00	19.40
4924	40.89	AV	H	33.54	5.34	27.43	52.34	54.00	1.66 *
7386	32.57	PK	H	36.69	6.83	25.86	50.23	74.00	23.77
7386	18.95	AV	H	36.69	6.83	25.86	36.61	54.00	17.39
9848	30.77	PK	H	38.33	8.66	26.94	50.82	74.00	23.18
9848	17.28	AV	H	38.33	8.66	26.94	37.33	54.00	16.67
3115	34.87	PK	H	31.24	6.88	27.44	45.55	74.00	28.45
3115	22.43	AV	H	31.24	6.88	27.44	33.11	54.00	20.89
240.49	38.64	QP	H	12.22	1.86	21.48	31.24	46.00	14.76

**within uncertainty measurement!*

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	61.79	PK	H	28.49	3.68	0.00	93.96	N/A	N/A
2412	51.07	AV	H	28.49	3.68	0.00	83.24	N/A	N/A
2412	60.6	PK	V	28.49	3.68	0.00	92.77	N/A	N/A
2412	50.08	AV	V	28.49	3.68	0.00	82.25	N/A	N/A
2390	25.53	PK	H	28.44	3.63	0.00	57.60	74.00	16.40
2390	13.44	AV	H	28.44	3.63	0.00	45.51	54.00	8.49
4824	51.11	PK	H	33.20	5.03	27.41	61.93	74.00	12.07
4824	35.18	AV	H	33.20	5.03	27.41	46.00	54.00	8.00
7236	34.2	PK	H	36.42	6.65	25.90	51.37	74.00	22.63
7236	18.77	AV	H	36.42	6.65	25.90	35.94	54.00	18.06
9648	30.06	PK	H	38.37	8.55	27.46	49.52	74.00	24.48
9648	16.74	AV	H	38.37	8.55	27.46	36.20	54.00	17.80
3115	35.45	PK	H	31.24	6.88	27.44	46.13	74.00	27.87
3115	22.83	AV	H	31.24	6.88	27.44	33.51	54.00	20.49
240.49	39.15	QP	H	12.22	1.86	21.48	31.75	46.00	14.25
Middle Channel: 2437 MHz									
2437	62.01	PK	H	28.55	3.75	0.00	94.31	N/A	N/A
2437	51.16	AV	H	28.55	3.75	0.00	83.46	N/A	N/A
2437	60.62	PK	V	28.55	3.75	0.00	92.92	N/A	N/A
2437	50.19	AV	V	28.55	3.75	0.00	82.49	N/A	N/A
4874	51.07	PK	H	33.37	5.14	27.42	62.16	74.00	11.84
4874	35.14	AV	H	33.37	5.14	27.42	46.23	54.00	7.77
7311	34.18	PK	H	36.56	6.74	25.88	51.60	74.00	22.40
7311	18.82	AV	H	36.56	6.74	25.88	36.24	54.00	17.76
9748	29.94	PK	H	38.35	8.61	27.24	49.66	74.00	24.34
9748	16.73	AV	H	38.35	8.61	27.24	36.45	54.00	17.55
3115	35.28	PK	H	31.24	6.88	27.44	45.96	74.00	28.04
3115	22.72	AV	H	31.24	6.88	27.44	33.40	54.00	20.60
3610	34.82	PK	H	32.57	4.61	27.28	44.72	74.00	29.28
3610	22.48	AV	H	32.57	4.61	27.28	32.38	54.00	21.62
240.49	38.79	QP	H	12.22	1.86	21.48	31.39	46.00	14.61
High Channel: 2462 MHz									
2462	61.98	PK	H	28.61	3.75	0.00	94.34	N/A	N/A
2462	50.83	AV	H	28.61	3.75	0.00	83.19	N/A	N/A
2462	60.81	PK	V	28.61	3.75	0.00	93.17	N/A	N/A
2462	49.51	AV	V	28.61	3.75	0.00	81.87	N/A	N/A
2483.5	25.95	PK	H	28.66	3.67	0.00	58.28	74.00	15.72
2483.5	14.08	AV	H	28.66	3.67	0.00	46.41	54.00	7.59
4924	51.26	PK	H	33.54	5.34	27.43	62.71	74.00	11.29
4924	35.35	AV	H	33.54	5.34	27.43	46.80	54.00	7.20
7386	34.44	PK	H	36.69	6.83	25.86	52.10	74.00	21.90
7386	19.09	AV	H	36.69	6.83	25.86	36.75	54.00	17.25
9848	30.33	PK	H	38.33	8.66	26.94	50.38	74.00	23.62
9848	17.03	AV	H	38.33	8.66	26.94	37.08	54.00	16.92
3115	35.67	PK	H	31.24	6.88	27.44	46.35	74.00	27.65
3115	23.04	AV	H	31.24	6.88	27.44	33.72	54.00	20.28
240.49	38.35	QP	H	12.22	1.86	21.48	30.95	46.00	15.05

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	60.42	PK	H	28.49	3.68	0.00	92.59	N/A	N/A
2412	49.67	AV	H	28.49	3.68	0.00	81.84	N/A	N/A
2412	58.96	PK	V	28.49	3.68	0.00	91.13	N/A	N/A
2412	48.43	AV	V	28.49	3.68	0.00	80.60	N/A	N/A
2390	25.74	PK	H	28.44	3.63	0.00	57.81	74.00	16.19
2390	13.46	AV	H	28.44	3.63	0.00	45.53	54.00	8.47
4824	50.69	PK	H	33.20	5.03	27.41	61.51	74.00	12.49
4824	33.82	AV	H	33.20	5.03	27.41	44.64	54.00	9.36
7236	32.94	PK	H	36.42	6.65	25.90	50.11	74.00	23.89
7236	18.87	AV	H	36.42	6.65	25.90	36.04	54.00	17.96
9648	30.11	PK	H	38.37	8.55	27.46	49.57	74.00	24.43
9648	16.65	AV	H	38.37	8.55	27.46	36.11	54.00	17.89
3115	35.14	PK	H	31.24	6.88	27.44	45.82	74.00	28.18
3115	22.52	AV	H	31.24	6.88	27.44	33.20	54.00	20.80
240.49	38.65	QP	H	12.22	1.86	21.48	31.25	46.00	14.75
Middle Channel: 2437 MHz									
2437	60.63	PK	H	28.55	3.75	0.00	92.93	N/A	N/A
2437	49.72	AV	H	28.55	3.75	0.00	82.02	N/A	N/A
2437	59.01	PK	V	28.55	3.75	0.00	91.31	N/A	N/A
2437	48.54	AV	V	28.55	3.75	0.00	80.84	N/A	N/A
4874	50.63	PK	H	33.37	5.14	27.42	61.72	74.00	12.28
4874	33.75	AV	H	33.37	5.14	27.42	44.84	54.00	9.16
7311	33.01	PK	H	36.56	6.74	25.88	50.43	74.00	23.57
7311	18.77	AV	H	36.56	6.74	25.88	36.19	54.00	17.81
9748	30.18	PK	H	38.35	8.61	27.24	49.90	74.00	24.10
9748	16.74	AV	H	38.35	8.61	27.24	36.46	54.00	17.54
3115	35.13	PK	H	31.24	6.88	27.44	45.81	74.00	28.19
3115	22.6	AV	H	31.24	6.88	27.44	33.28	54.00	20.72
3610	34.95	PK	H	32.57	4.61	27.28	44.85	74.00	29.15
3610	22.58	AV	H	32.57	4.61	27.28	32.48	54.00	21.52
240.49	39.41	QP	H	12.22	1.86	21.48	32.01	46.00	13.99
High Channel: 2462 MHz									
2462	60.81	PK	H	28.61	3.75	0.00	93.17	N/A	N/A
2462	50.08	AV	H	28.61	3.75	0.00	82.44	N/A	N/A
2462	59.36	PK	V	28.61	3.75	0.00	91.72	N/A	N/A
2462	48.85	AV	V	28.61	3.75	0.00	81.21	N/A	N/A
2483.5	25.65	PK	H	28.66	3.67	0.00	57.98	74.00	16.02
2483.5	14.07	AV	H	28.66	3.67	0.00	46.40	54.00	7.60
4924	50.76	PK	H	33.54	5.34	27.43	62.21	74.00	11.79
4924	34.1	AV	H	33.54	5.34	27.43	45.55	54.00	8.45
7386	33.25	PK	H	36.69	6.83	25.86	50.91	74.00	23.09
7386	19.08	AV	H	36.69	6.83	25.86	36.74	54.00	17.26
9848	30.45	PK	H	38.33	8.66	26.94	50.50	74.00	23.50
9848	17.02	AV	H	38.33	8.66	26.94	37.07	54.00	16.93
3115	35.36	PK	H	31.24	6.88	27.44	46.04	74.00	27.96
3115	22.84	AV	H	31.24	6.88	27.44	33.52	54.00	20.48
240.49	39.11	QP	H	12.22	1.86	21.48	31.71	46.00	14.29

**within uncertainty measurement!*

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	59.96	PK	H	28.51	3.71	0.00	92.18	N/A	N/A
2422	48.57	AV	H	28.51	3.71	0.00	80.79	N/A	N/A
2422	58.45	PK	V	28.51	3.71	0.00	90.67	N/A	N/A
2422	47.45	AV	V	28.51	3.71	0.00	79.67	N/A	N/A
2390	30.07	PK	H	28.44	3.63	0.00	62.14	74.00	11.86
2390	13.72	AV	H	28.44	3.63	0.00	45.79	54.00	8.21
4844	47.67	PK	H	33.27	4.99	27.42	58.51	74.00	15.49
4844	31.25	AV	H	33.27	4.99	27.42	42.09	54.00	11.91
7266	34.65	PK	H	36.48	6.68	25.89	51.92	74.00	22.08
7266	21.11	AV	H	36.48	6.68	25.89	38.38	54.00	15.62
9688	29.94	PK	H	38.36	8.58	27.37	49.51	74.00	24.49
9688	16.66	AV	H	38.36	8.58	27.37	36.23	54.00	17.77
3115	34.92	PK	H	31.24	6.88	27.44	45.60	74.00	28.40
3115	22.42	AV	H	31.24	6.88	27.44	33.10	54.00	20.90
240.49	38.64	QP	H	12.22	1.86	21.48	31.24	46.00	14.76
Middle Channel: 2437 MHz									
2437	60.17	PK	H	28.55	3.75	0.00	92.47	N/A	N/A
2437	48.65	AV	H	28.55	3.75	0.00	80.95	N/A	N/A
2437	58.57	PK	V	28.55	3.75	0.00	90.87	N/A	N/A
2437	47.49	AV	V	28.55	3.75	0.00	79.79	N/A	N/A
4874	47.78	PK	H	33.37	5.14	27.42	58.87	74.00	15.13
4874	31.31	AV	H	33.37	5.14	27.42	42.40	54.00	11.60
7311	34.66	PK	H	36.56	6.74	25.88	52.08	74.00	21.92
7311	21.04	AV	H	36.56	6.74	25.88	38.46	54.00	15.54
9748	29.99	PK	H	38.35	8.61	27.24	49.71	74.00	24.29
9748	16.68	AV	H	38.35	8.61	27.24	36.40	54.00	17.60
3115	34.8	PK	H	31.24	6.88	27.44	45.48	74.00	28.52
3115	22.42	AV	H	31.24	6.88	27.44	33.10	54.00	20.90
3460	34.69	PK	H	32.55	4.86	27.22	44.88	74.00	29.12
3460	22.14	AV	H	32.55	4.86	27.22	32.33	54.00	21.67
240.49	39.16	QP	H	12.22	1.86	21.48	31.76	46.00	14.24
High Channel: 2452 MHz									
2452	60.18	PK	H	28.58	3.78	0.00	92.54	N/A	N/A
2452	48.64	AV	H	28.58	3.78	0.00	81.00	N/A	N/A
2452	58.74	PK	V	28.58	3.78	0.00	91.10	N/A	N/A
2452	47.63	AV	V	28.58	3.78	0.00	79.99	N/A	N/A
2483.5	30.97	PK	H	28.66	3.67	0.00	63.30	74.00	10.70
2483.5	14.64	AV	H	28.66	3.67	0.00	46.97	54.00	7.03
4904	47.91	PK	H	33.47	5.31	27.43	59.26	74.00	14.74
4904	31.67	AV	H	33.47	5.31	27.43	43.02	54.00	10.98
7356	34.92	PK	H	36.64	6.79	25.87	52.48	74.00	21.52
7356	21.39	AV	H	36.64	6.79	25.87	38.95	54.00	15.05
9808	30.23	PK	H	38.34	8.64	27.09	50.12	74.00	23.88
9808	17.06	AV	H	38.34	8.64	27.09	36.95	54.00	17.05
3115	35.16	PK	H	31.24	6.88	27.44	45.84	74.00	28.16
3115	22.62	AV	H	31.24	6.88	27.44	33.30	54.00	20.70
240.49	38.36	QP	H	12.22	1.86	21.48	30.96	46.00	15.04

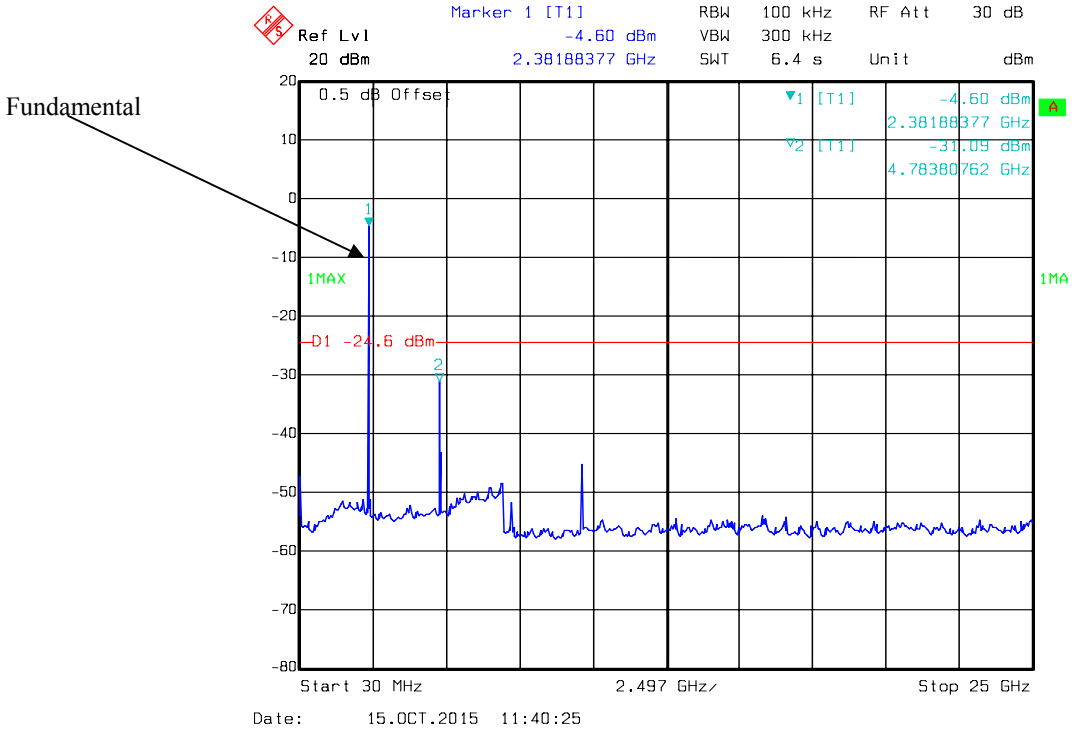
**within uncertainty measurement!*

BLE Mode

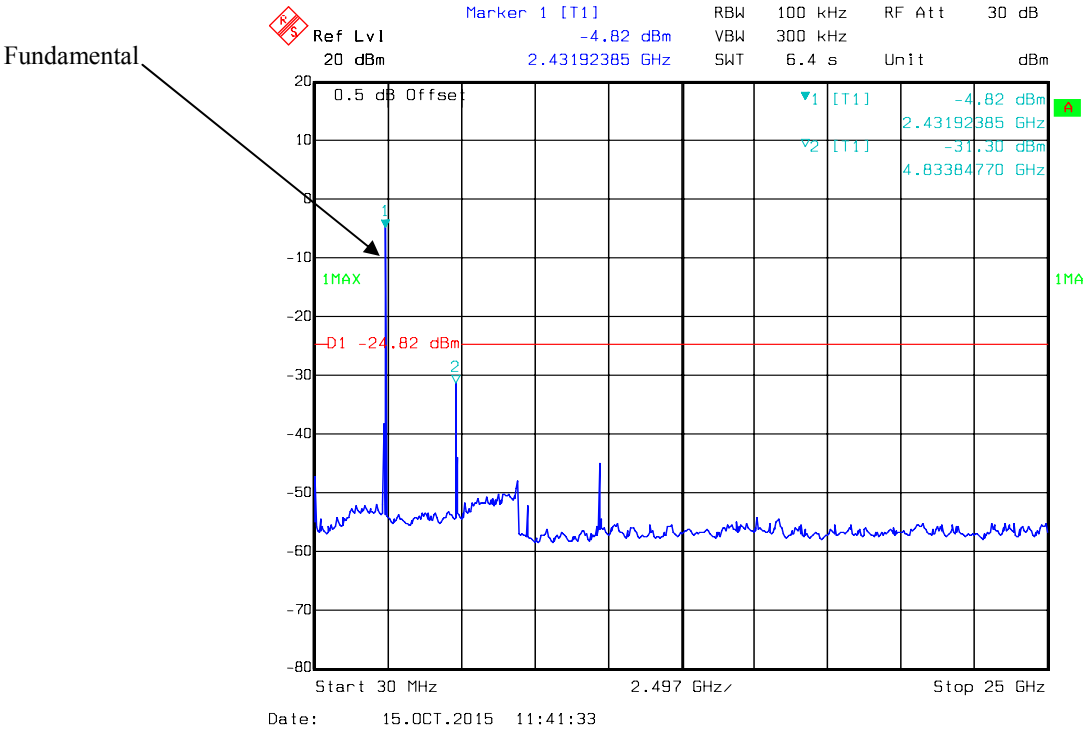
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	55.59	PK	H	28.46	3.66	0.00	87.71	N/A	N/A
2402	50.48	AV	H	28.46	3.66	0.00	82.60	N/A	N/A
2402	55.73	PK	V	28.46	3.66	0.00	87.85	N/A	N/A
2402	50.64	AV	V	28.46	3.66	0.00	82.76	N/A	N/A
2390	26.86	PK	V	28.44	3.63	0.00	58.93	74.00	15.07
2390	13.32	AV	V	28.44	3.63	0.00	45.39	54.00	8.61
4804	36.89	PK	V	33.13	5.06	27.41	47.67	74.00	26.33
4804	27.78	AV	V	33.13	5.06	27.41	38.56	54.00	15.44
7206	31.82	PK	V	36.37	6.61	25.91	48.89	74.00	25.11
7206	18.15	AV	V	36.37	6.61	25.91	35.22	54.00	18.78
9608	30.05	PK	V	38.38	8.53	27.55	49.41	74.00	24.59
9608	16.7	AV	V	38.38	8.53	27.55	36.06	54.00	17.94
3190	33.96	PK	V	31.52	6.26	27.38	44.36	74.00	29.64
3190	21.34	AV	V	31.52	6.26	27.38	31.74	54.00	22.26
242.43	43.25	QP	V	12.24	1.87	21.49	35.87	46.00	10.13
Middle Channel: 2440 MHz									
2440	55.62	PK	H	28.56	3.76	0.00	87.94	N/A	N/A
2440	50.45	AV	H	28.56	3.76	0.00	82.77	N/A	N/A
2440	55.89	PK	V	28.56	3.76	0.00	88.21	N/A	N/A
2440	50.77	AV	V	28.56	3.76	0.00	83.09	N/A	N/A
4880	37.16	PK	V	33.39	5.18	27.42	48.31	74.00	25.69
4880	27.93	AV	V	33.39	5.18	27.42	39.08	54.00	14.92
7320	31.96	PK	V	36.58	6.75	25.88	49.41	74.00	24.59
7320	18.19	AV	V	36.58	6.75	25.88	35.64	54.00	18.36
9760	30.14	PK	V	38.35	8.62	27.21	49.90	74.00	24.10
9760	16.87	AV	V	38.35	8.62	27.21	36.63	54.00	17.37
3190	33.97	PK	V	31.52	6.26	27.38	44.37	74.00	29.63
3190	21.42	AV	V	31.52	6.26	27.38	31.82	54.00	22.18
3085	34.14	PK	V	31.12	6.78	27.46	44.58	74.00	29.42
3085	21.58	AV	V	31.12	6.78	27.46	32.02	54.00	21.98
242.43	43.68	QP	V	12.24	1.87	21.49	36.30	46.00	9.70
High Channel: 2480 MHz									
2480	54.58	PK	H	28.65	3.68	0.00	86.91	N/A	N/A
2480	49.47	AV	H	28.65	3.68	0.00	81.80	N/A	N/A
2480	54.6	PK	V	28.65	3.68	0.00	86.93	N/A	N/A
2480	49.41	AV	V	28.65	3.68	0.00	81.74	N/A	N/A
2483.5	25.61	PK	V	28.66	3.67	0.00	57.94	74.00	16.06
2483.5	13.9	AV	V	28.66	3.67	0.00	46.23	54.00	7.77
4960	36.78	PK	V	33.66	5.34	27.43	48.35	74.00	25.65
4960	27.58	AV	V	33.66	5.34	27.43	39.15	54.00	14.85
7440	31.49	PK	V	36.79	6.89	25.97	49.20	74.00	24.80
7440	17.89	AV	V	36.79	6.89	25.97	35.60	54.00	18.40
9920	29.74	PK	V	38.32	8.71	26.66	50.11	74.00	23.89
9920	16.67	AV	V	38.32	8.71	26.66	37.04	54.00	16.96
3190	33.61	PK	V	31.52	6.26	27.38	44.01	74.00	29.99
3190	20.99	AV	V	31.52	6.26	27.38	31.39	54.00	22.61
242.43	43.31	QP	V	12.24	1.87	21.49	35.93	46.00	10.07

Conducted Spurious Emissions at Antenna Port

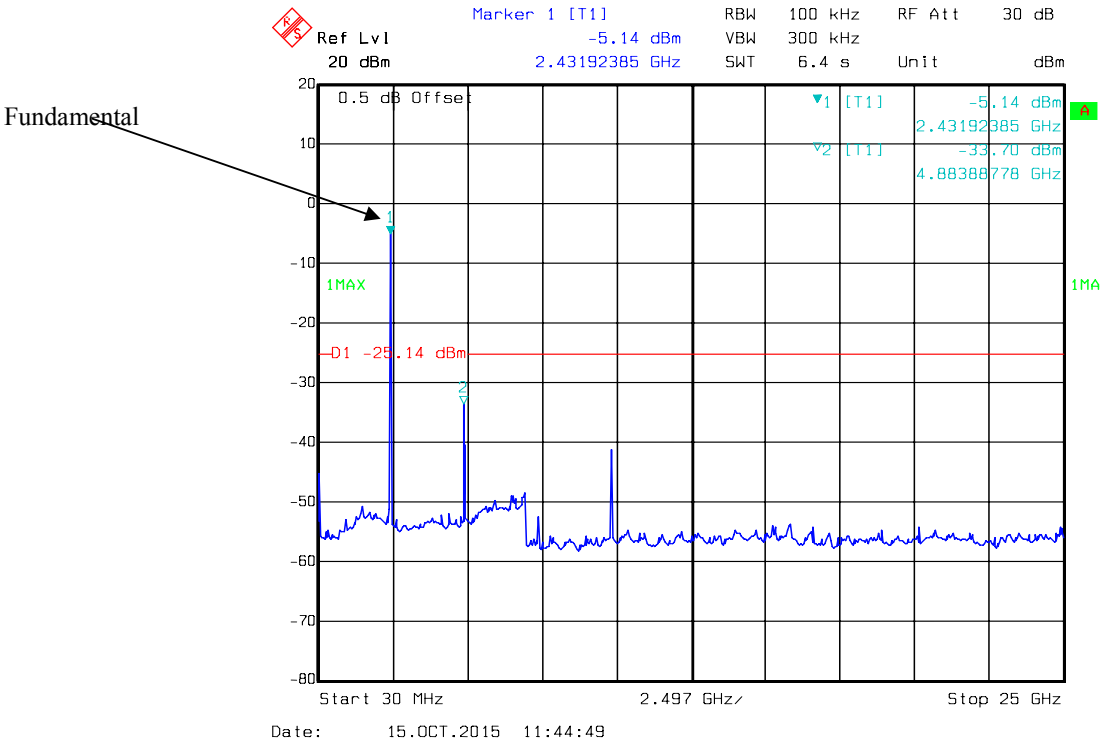
802.11b Low Channel



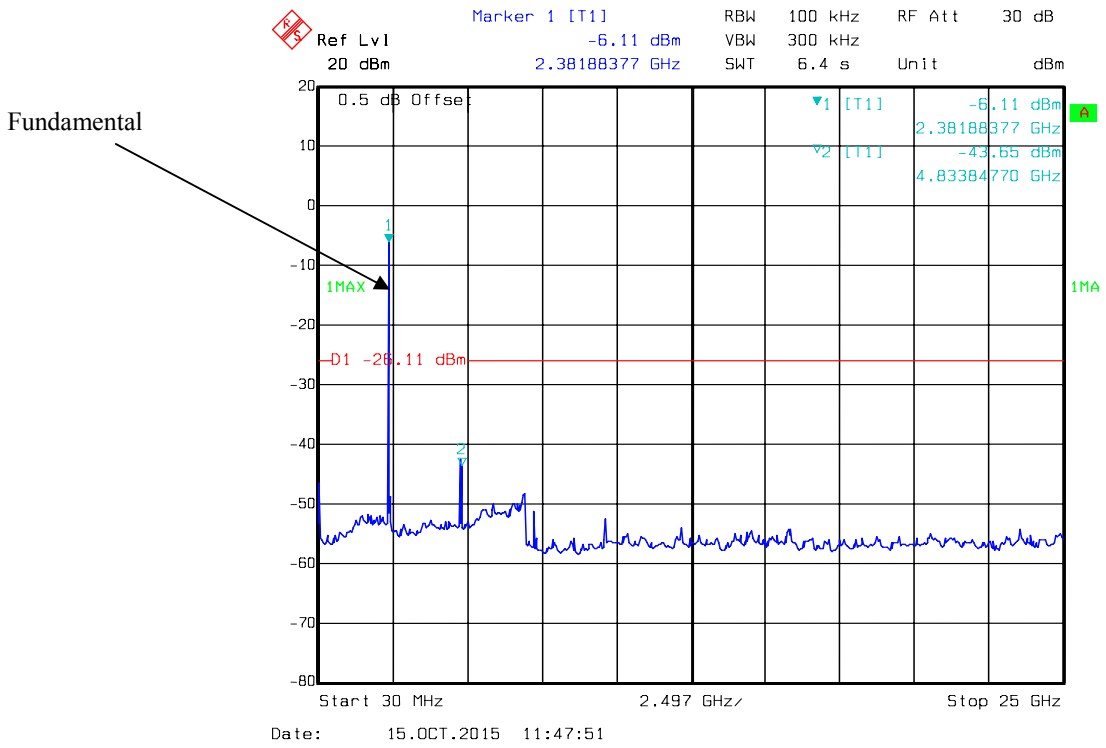
802.11b Middle Channel



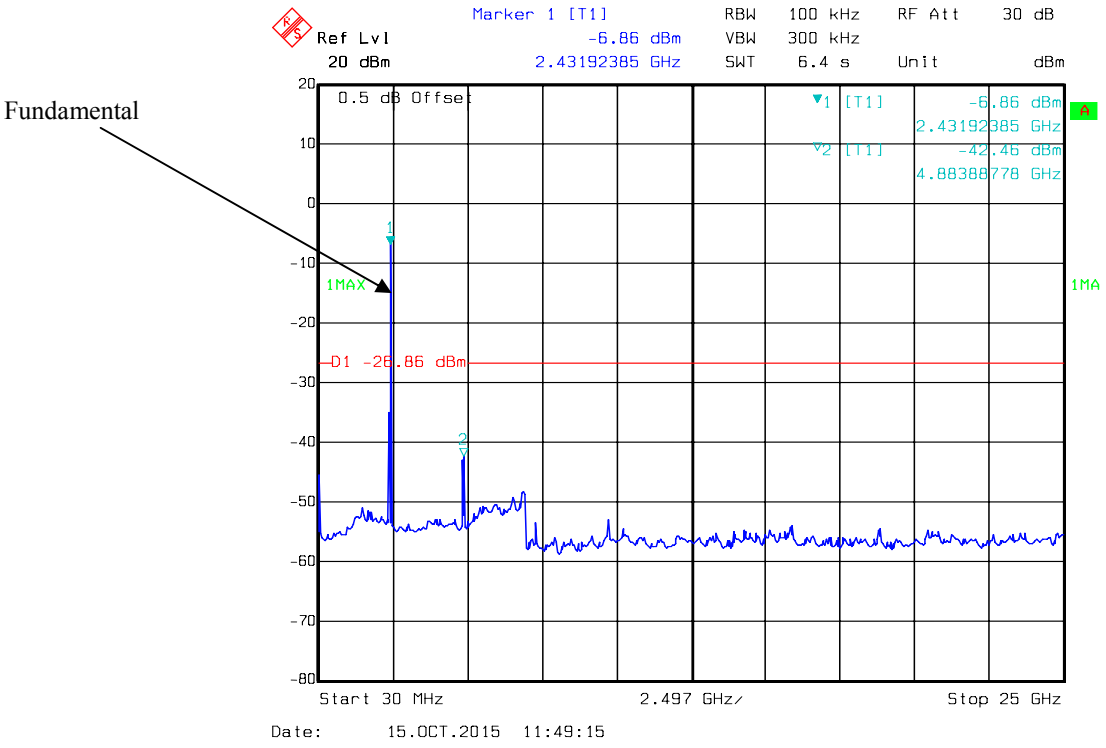
802.11b High Channel



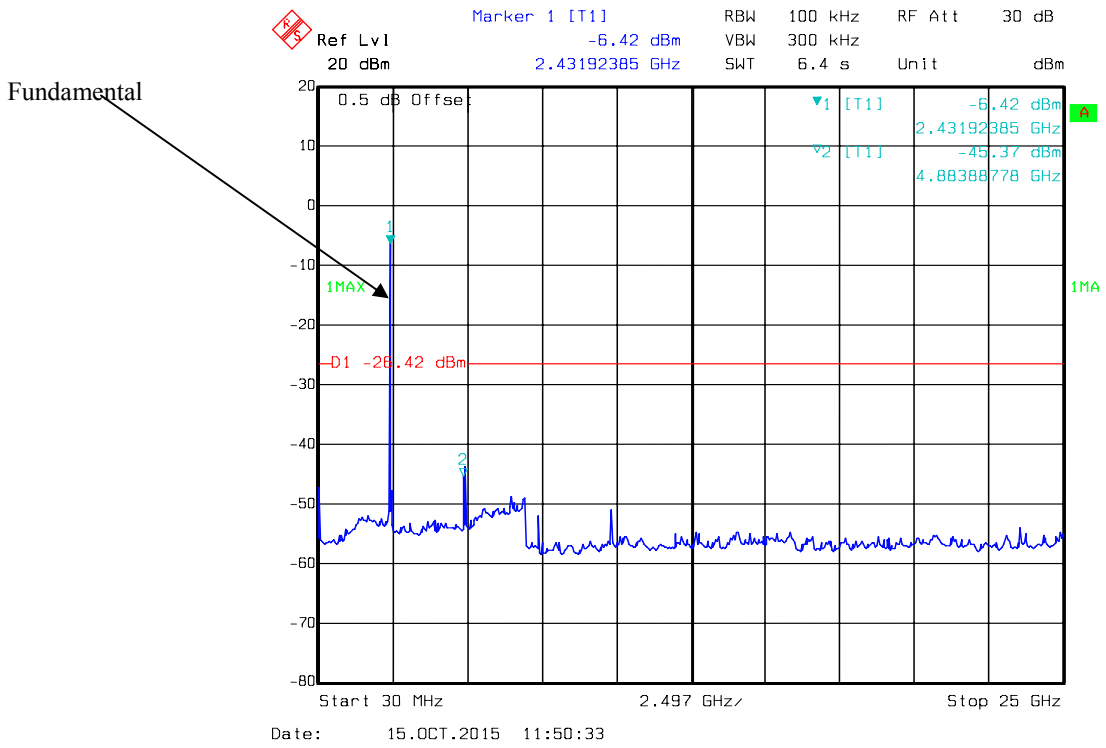
802.11g Low Channel



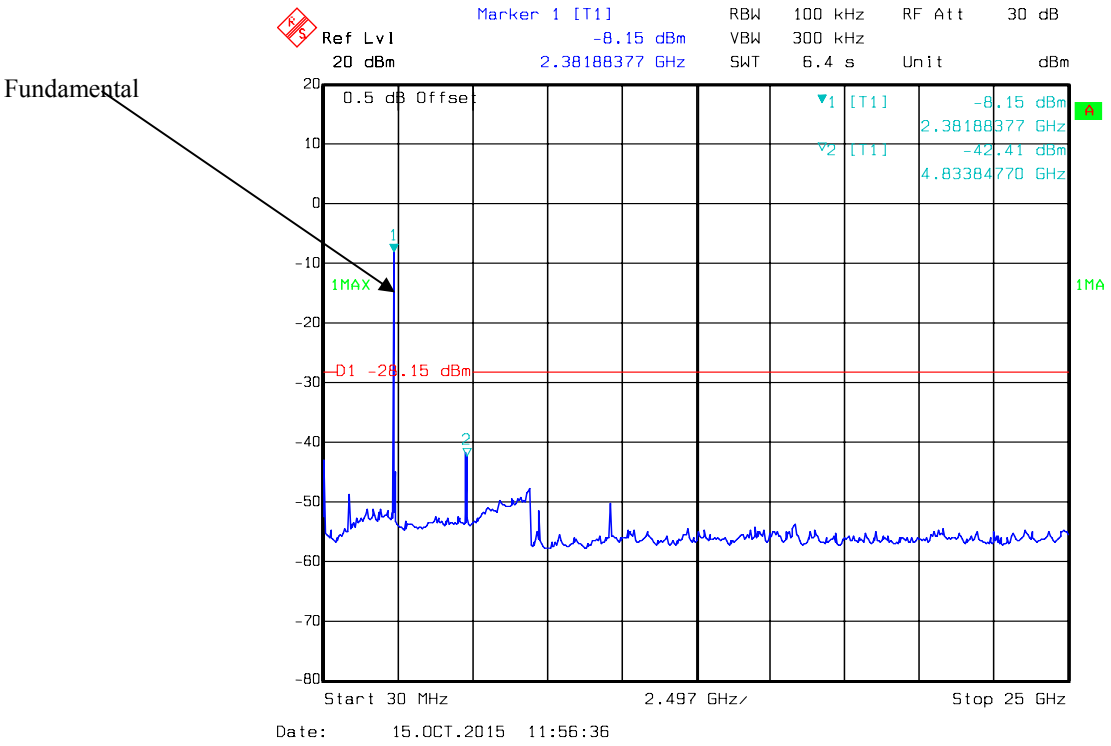
802.11g Middle Channel



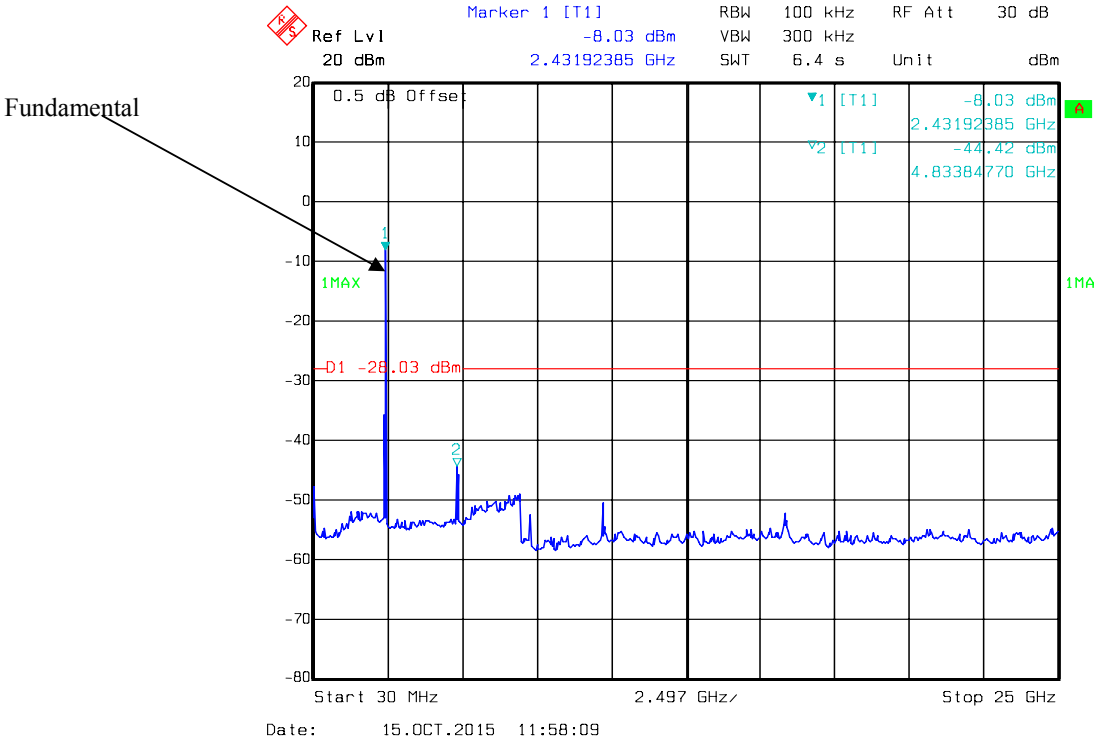
802.11g High Channel



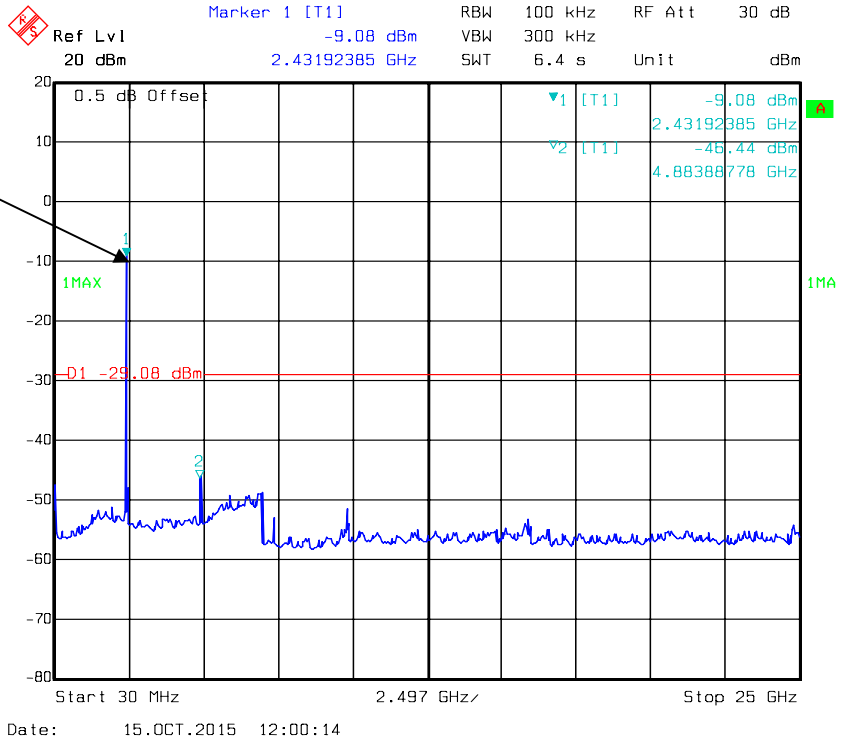
802.11n ht20 Low Channel



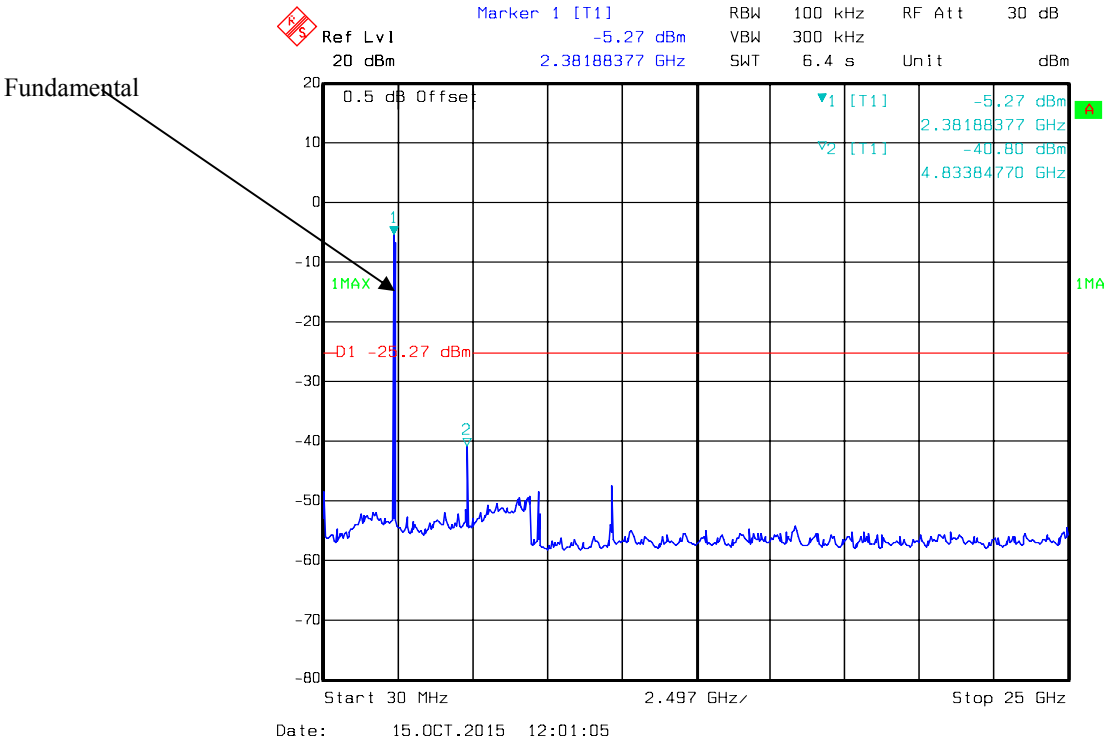
802.11n ht20 Middle Channel



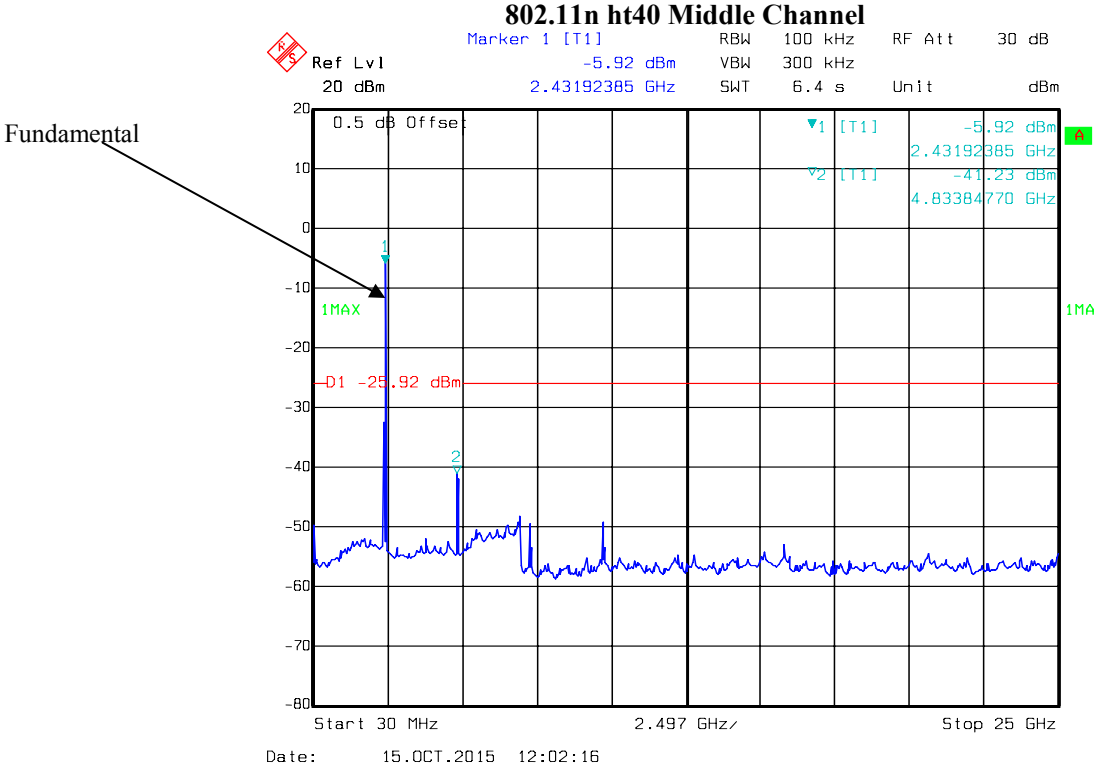
802.11n ht20 High Channel



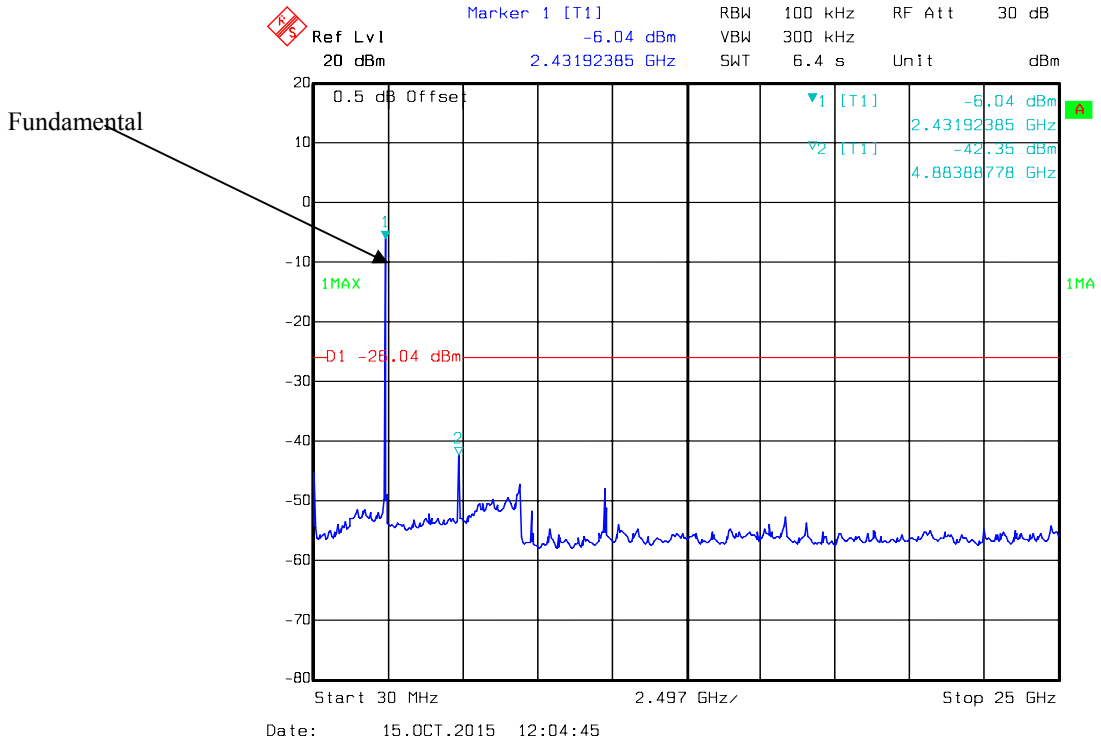
802.11n ht40 Low Channel



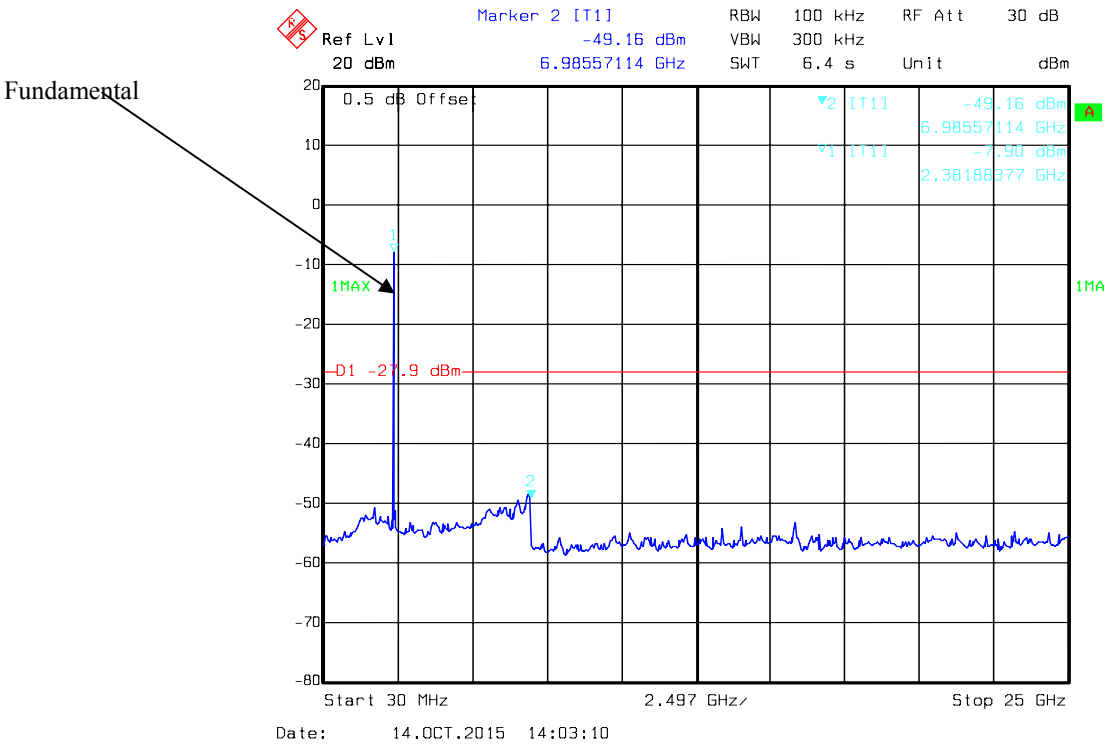
802.11n ht40 Middle Channel



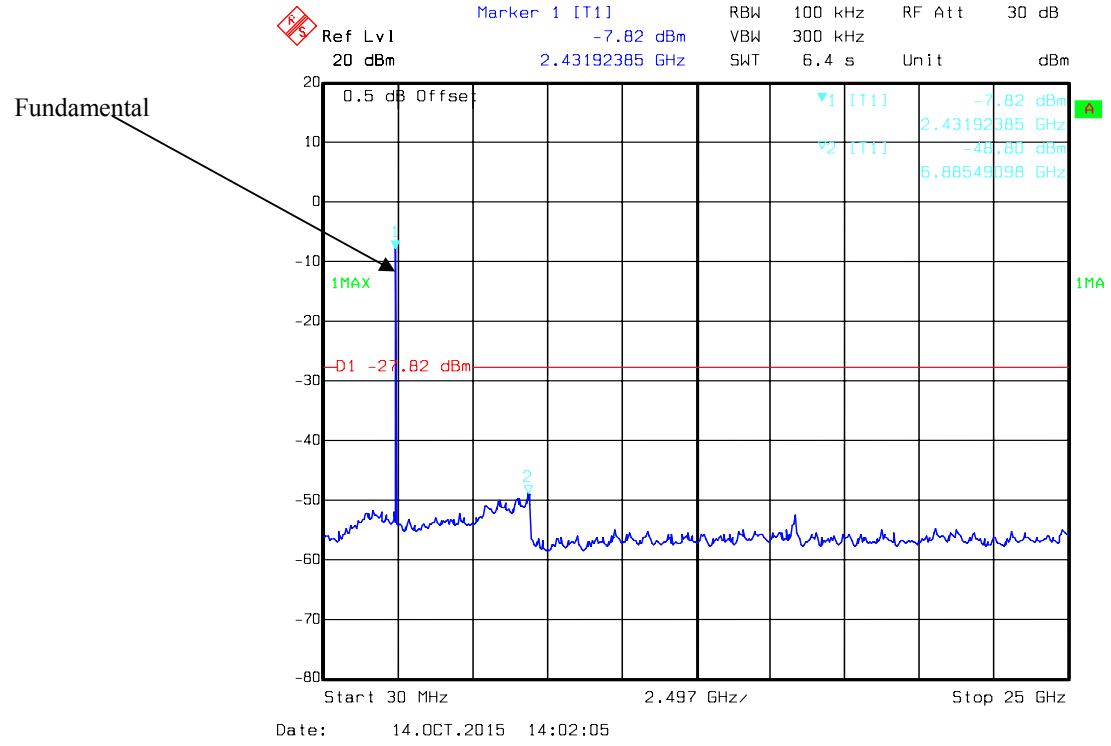
802.11n ht40 High Channel



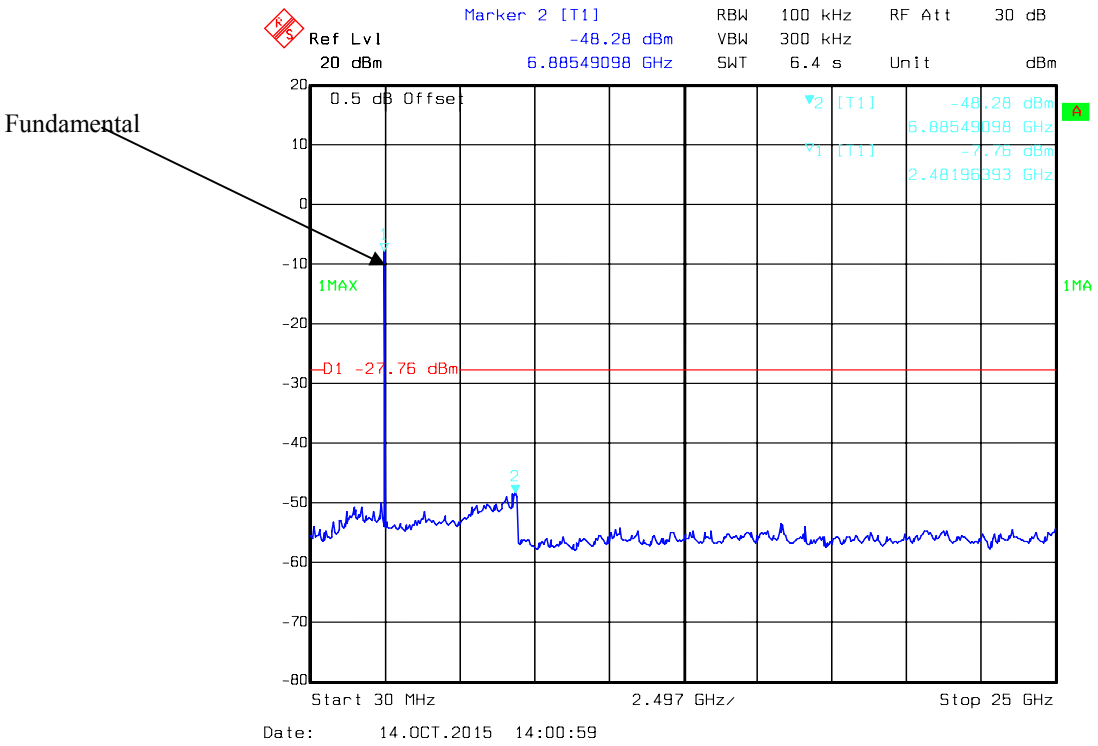
BLE Low Channel



BLE Middle Channel



BLE High Channel



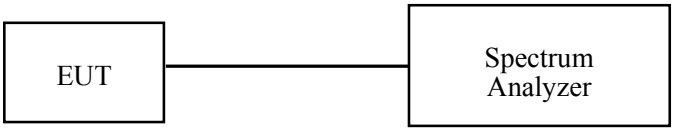
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

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 v03r03
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

*** 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:	27.1°C
Relative Humidity:	52 %
ATM Pressure:	101.3 kPa

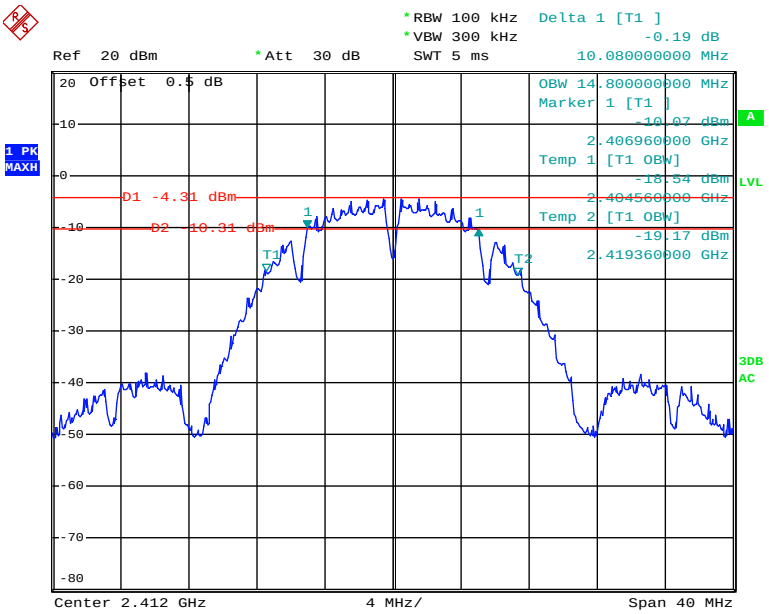
** The testing was performed by Allen Qiao on 2015-10-12*

Test Mode: Transmitting

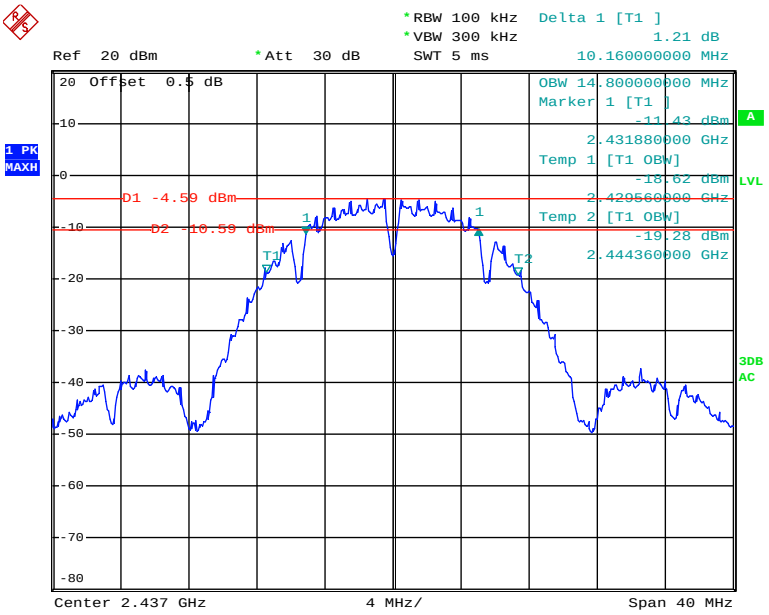
Test Result: Compliant. Please refer to the following table and plots.

Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	10.08	≥0.5
	Middle	2437	10.16	≥0.5
	High	2462	10.08	≥0.5
802.11g	Low	2412	16.64	≥0.5
	Middle	2437	16.64	≥0.5
	High	2462	16.64	≥0.5
802.11n20	Low	2412	17.92	≥0.5
	Middle	2437	17.92	≥0.5
	High	2462	17.92	≥0.5
802.11n40	Low	2422	36.48	≥0.5
	Middle	2437	36.48	≥0.5
	High	2452	36.48	≥0.5
BLE	Low	2402	0.705	≥0.5
	Middle	2440	0.705	≥0.5
	High	2480	0.700	≥0.5

802.11b Low Channel

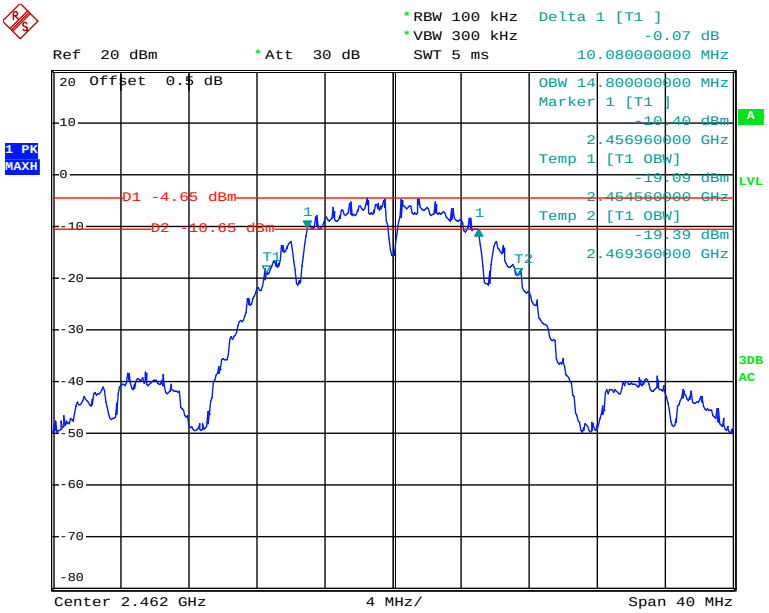


802.11b Middle Channel



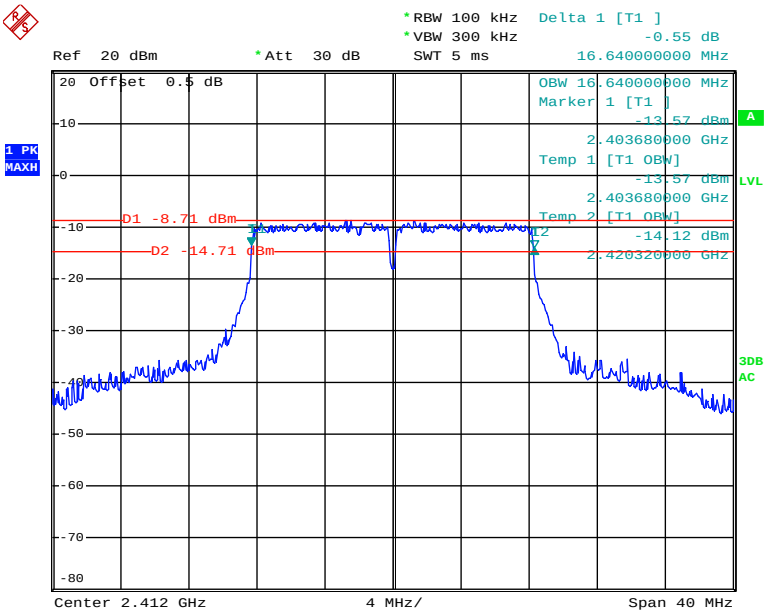
Date: 12.OCT.2015 19:38:10

802.11b High Channel



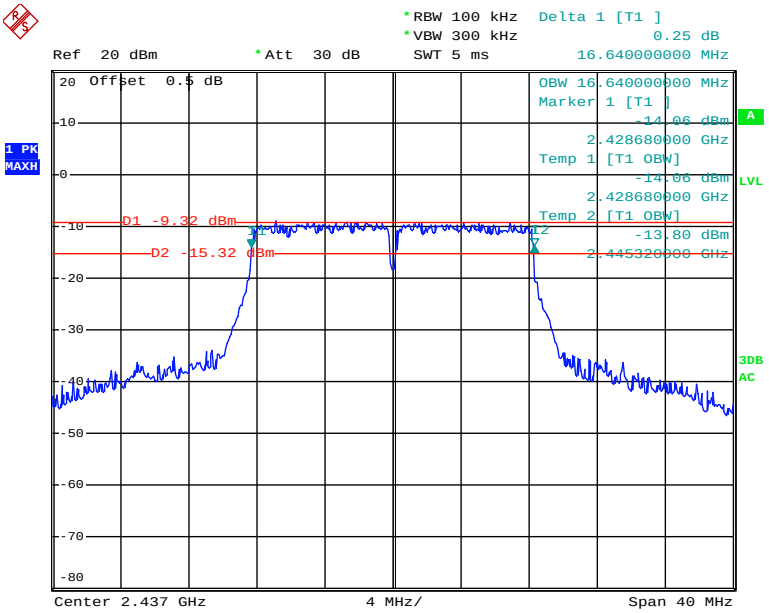
Date: 12.OCT.2015 19:39:21

802.11g Low Channel



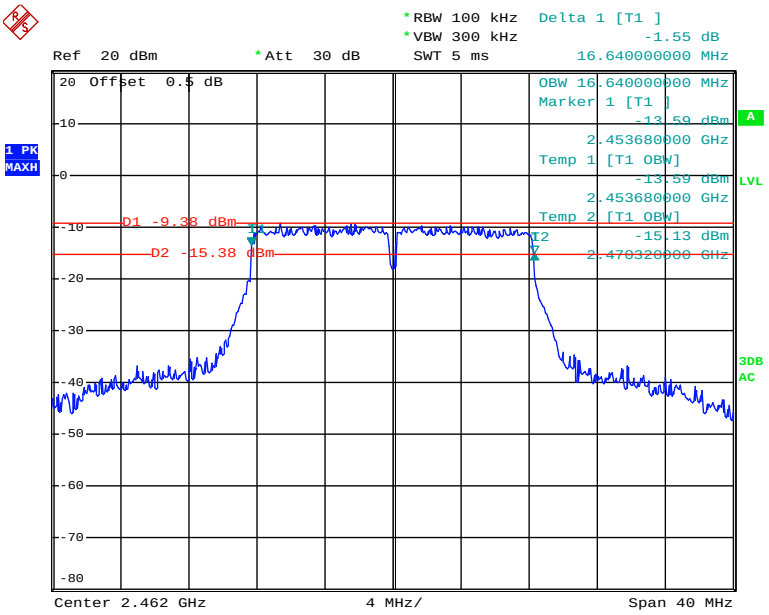
Date: 12.OCT.2015 19:41:54

802.11g Middle Channel



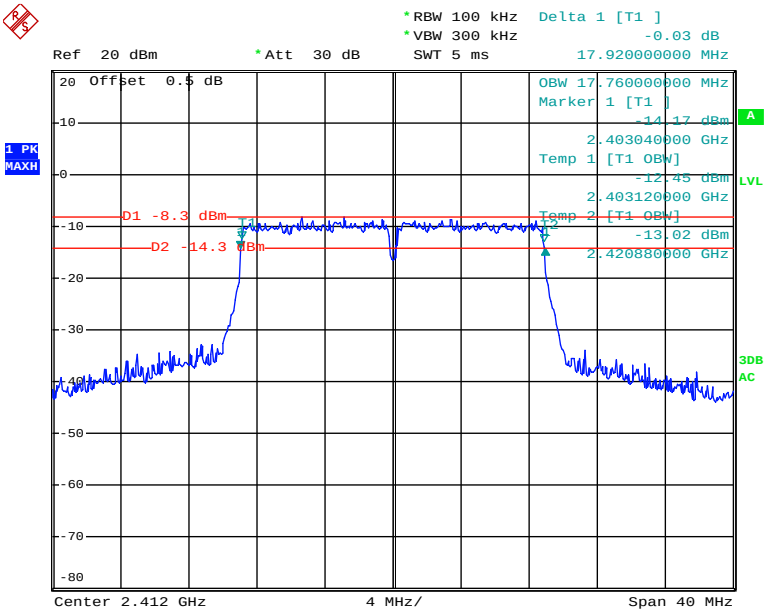
Date: 12.OCT.2015 19:43:18

802.11g High Channel



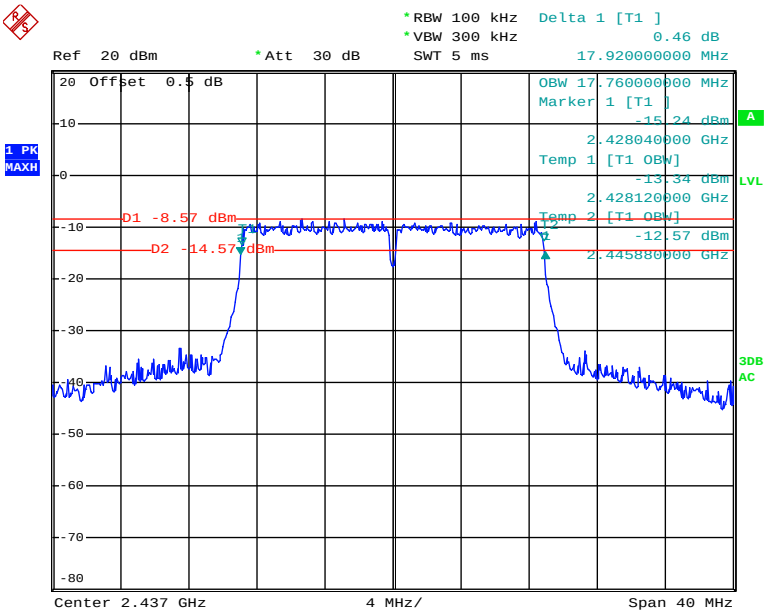
Date: 12.OCT.2015 19:44:21

802.11n ht20 Low Channel



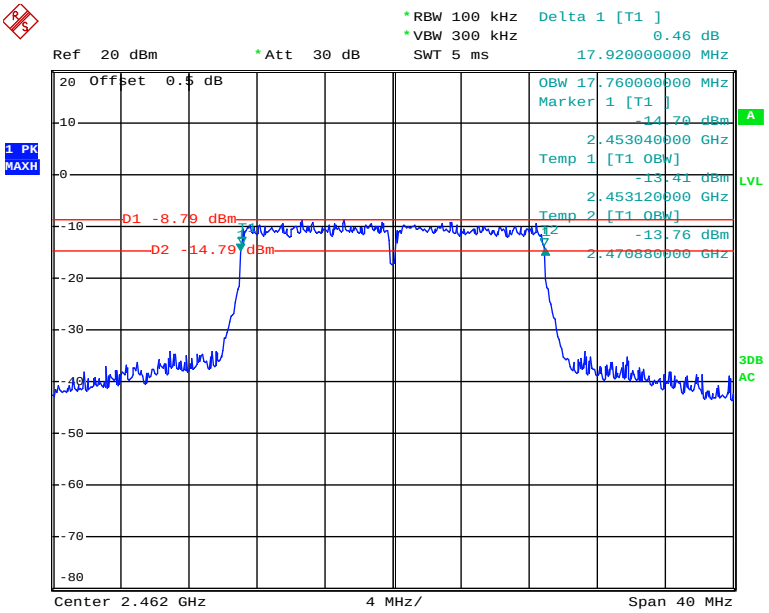
Date: 12.OCT.2015 19:47:04

802.11n ht20 Middle Channel



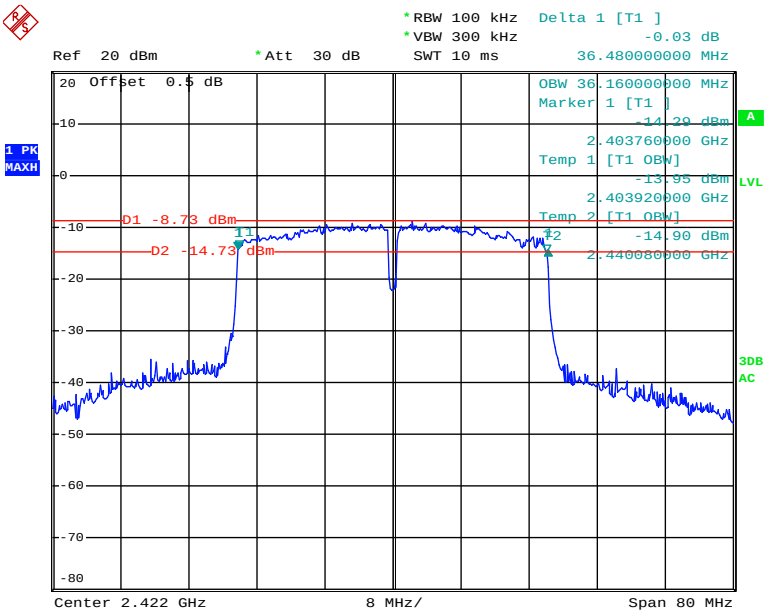
Date: 12.OCT.2015 19:48:04

802.11n ht20 High Channel



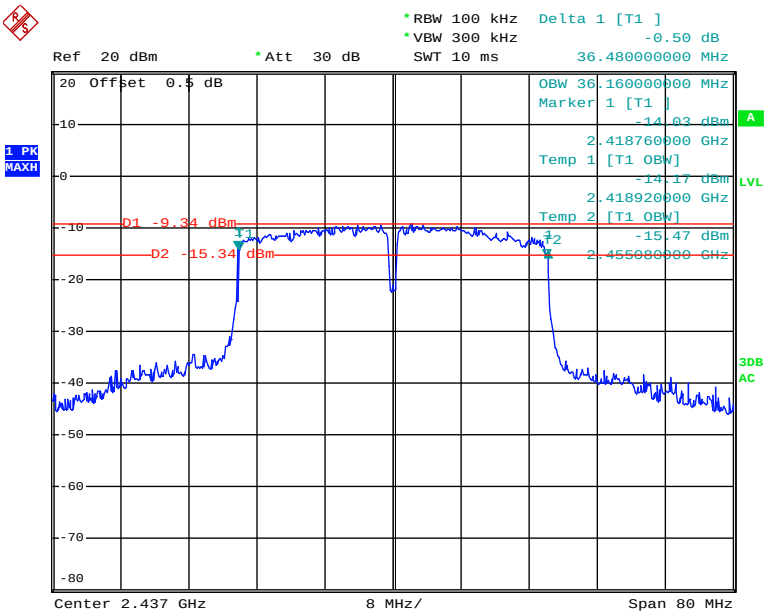
Date: 12.OCT.2015 19:51:16

802.11n ht40 Low Channel



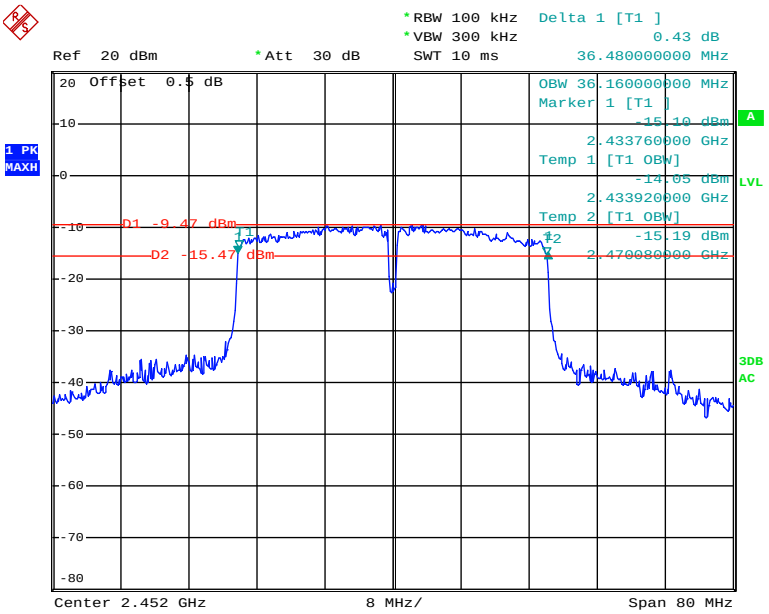
Date: 12.OCT.2015 20:14:52

802.11n ht40 Middle Channel



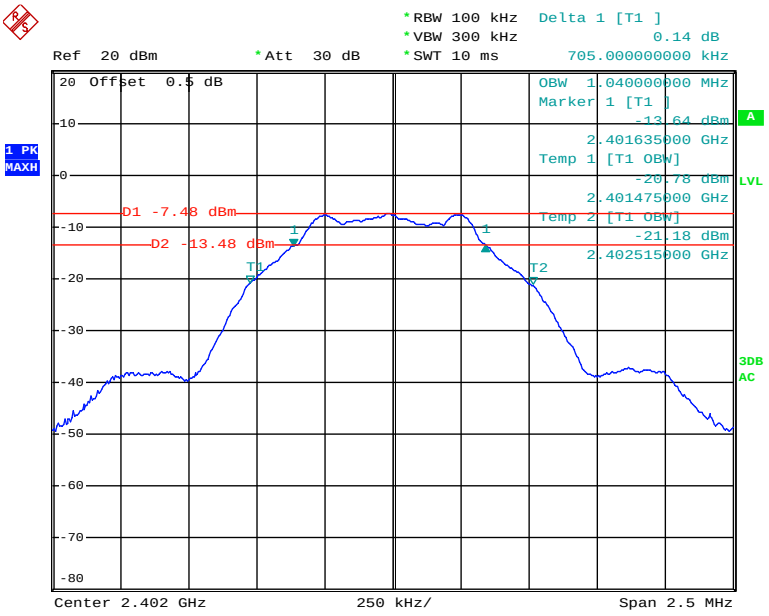
Date: 12.OCT.2015 20:16:43

802.11n ht40 High Channel



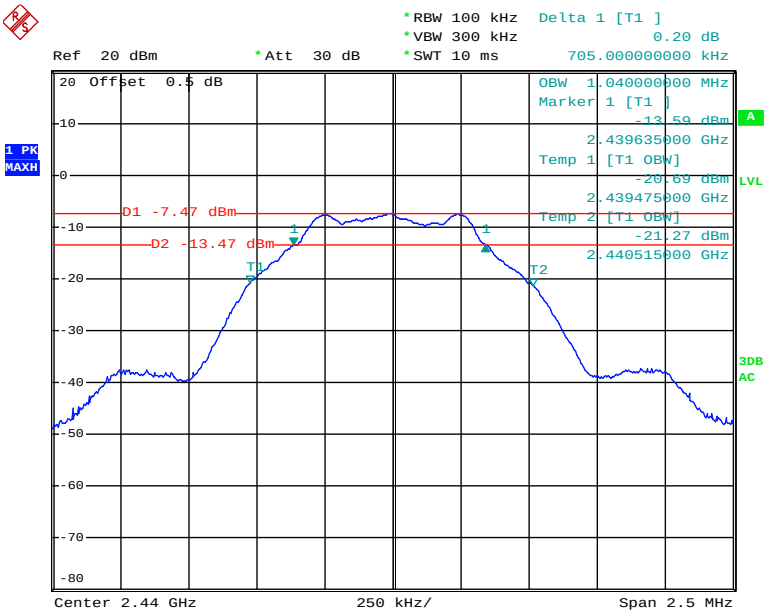
Date: 12.OCT.2015 20:18:32

BLE Low Channel



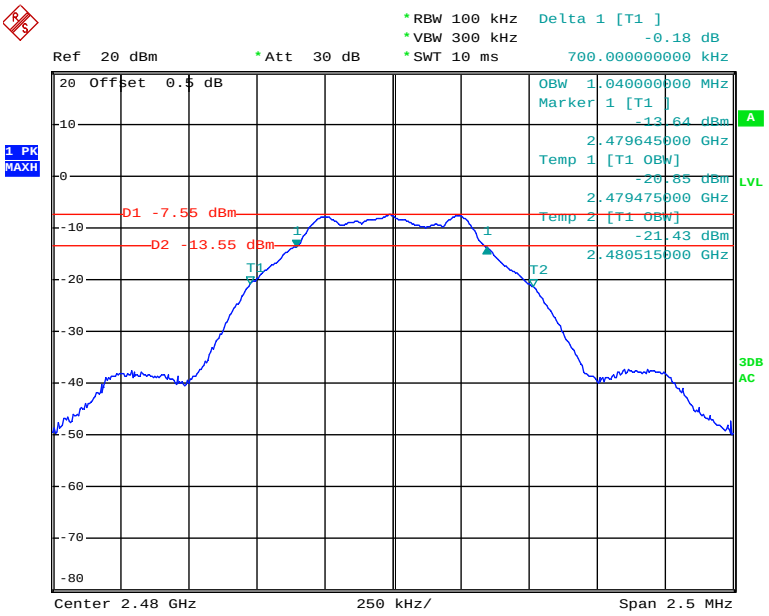
Date: 12.OCT.2015 11:19:49

BLE Middle Channel



Date: 12.OCT.2015 11:18:02

BLE High Channel



Date: 12.OCT.2015 11:16:53

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

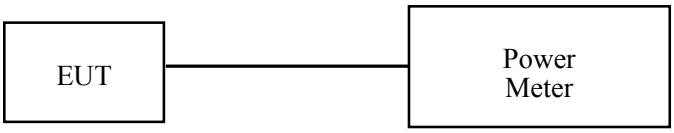
Applicable Standard

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 v03r03

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	2014-11-03	2015-11-03
Agilent	Wideband Power Sensor	N1921A	MY54170013	2014-11-03	2015-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2014-11-03	2015-11-03

*** 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:	26.5 °C
Relative Humidity:	52 %
ATM Pressure:	100.8 kPa

** The testing was performed by Allen Qiao on 2015-10-15.*

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	9.59	9.29	30
	Middle	2437	9.71	9.48	30
	High	2462	9.54	9.16	30
802.11g	Low	2412	13.40	9.21	30
	Middle	2437	13.50	9.18	30
	High	2462	13.66	9.38	30
802.11n20	Low	2412	14.39	9.34	30
	Middle	2437	14.05	9.36	30
	High	2462	14.25	9.45	30
802.11n40	Low	2422	15.52	9.32	30
	Middle	2437	15.72	9.43	30
	High	2452	15.61	9.37	30
BLE	Low	2402	-5.98	/	30
	Middle	2440	-5.86	/	30
	High	2480	-6.45	/	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

*** 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

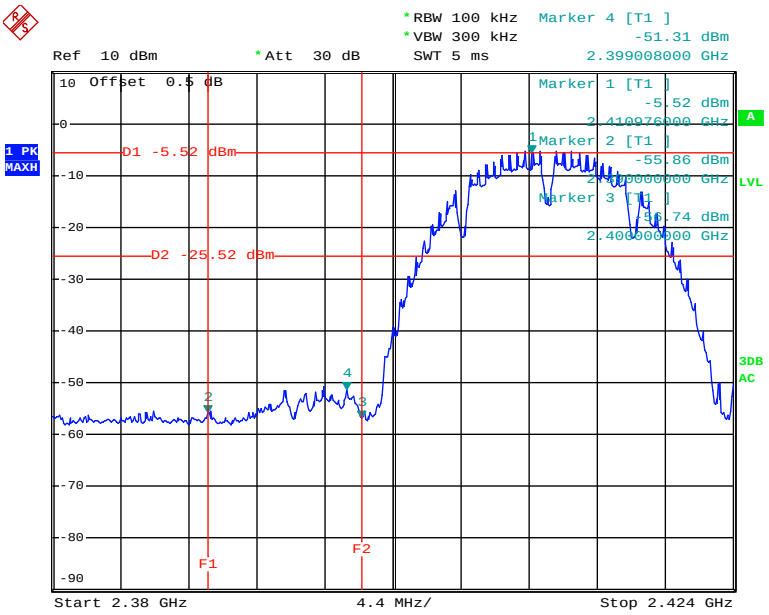
Temperature:	26.8 °C
Relative Humidity:	57 %
ATM Pressure:	101.4 kPa

** The testing was performed by Allen Qiao on 2015-10-13.*

Test mode: Transmitting

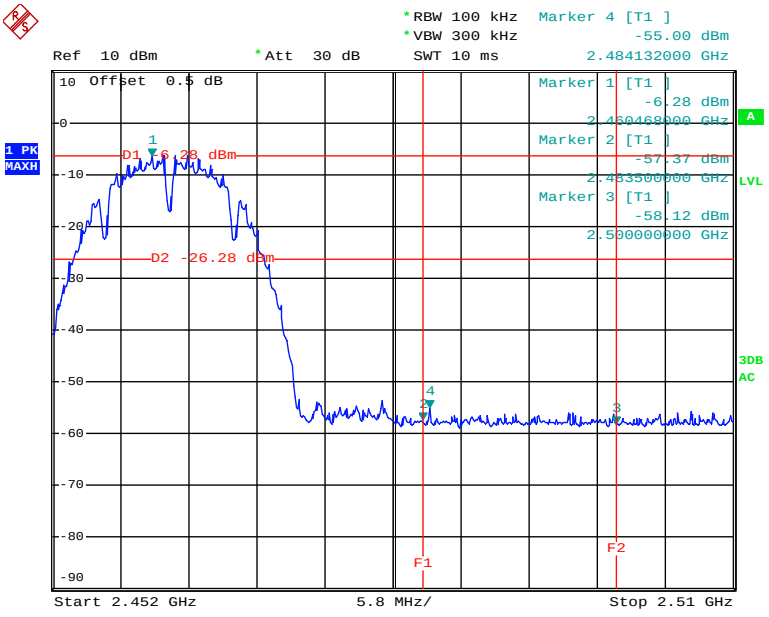
Test Result: Compliant. Please refer to following plots.

802.11b: Band Edge, Left Side



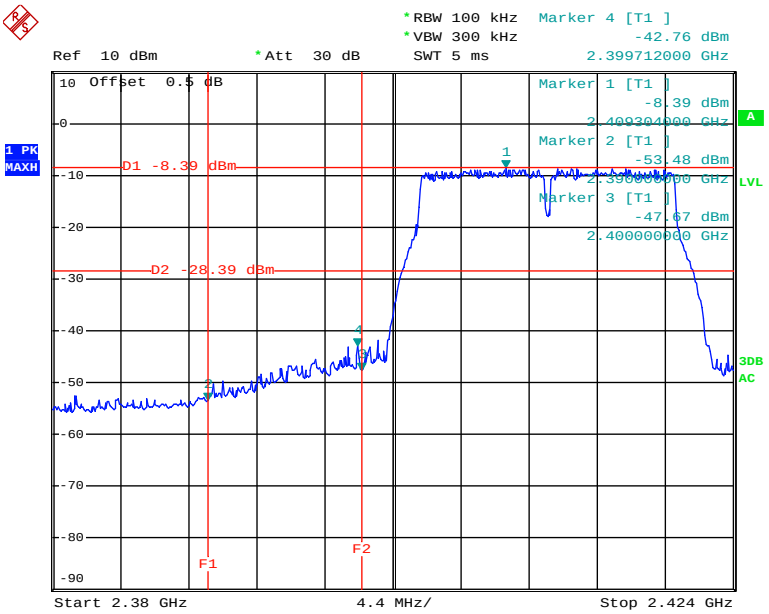
Date: 13.OCT.2015 09:31:51

802.11b: Band Edge, Right Side



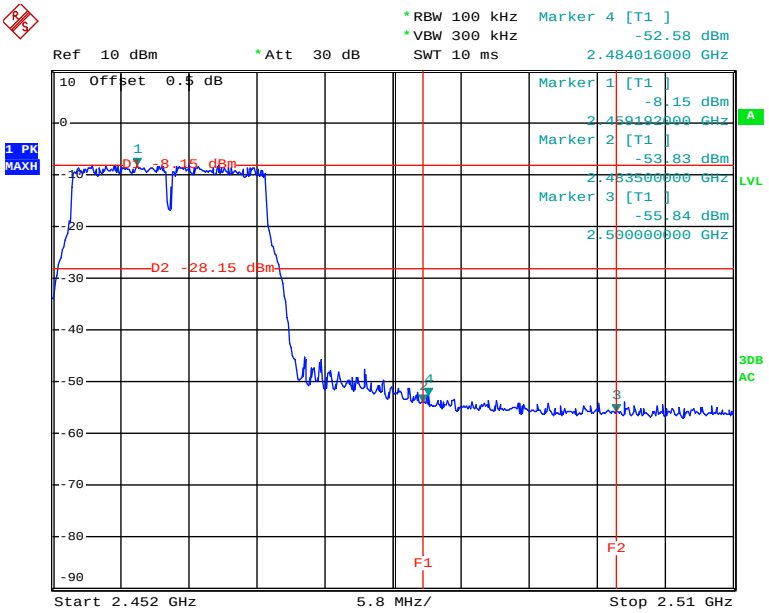
Date: 13.OCT.2015 09:49:31

802.11g: Band Edge, Left Side



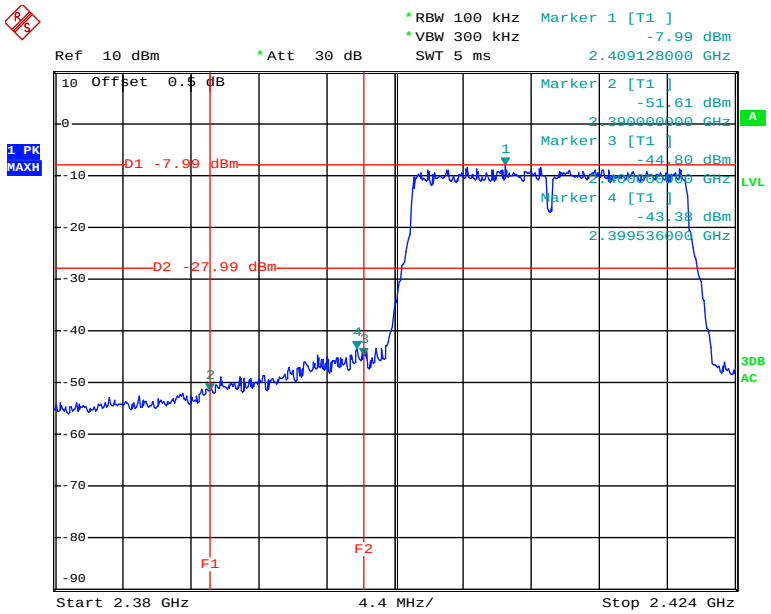
Date: 13.OCT.2015 09:35:05

802.11g: Band Edge, Right Side



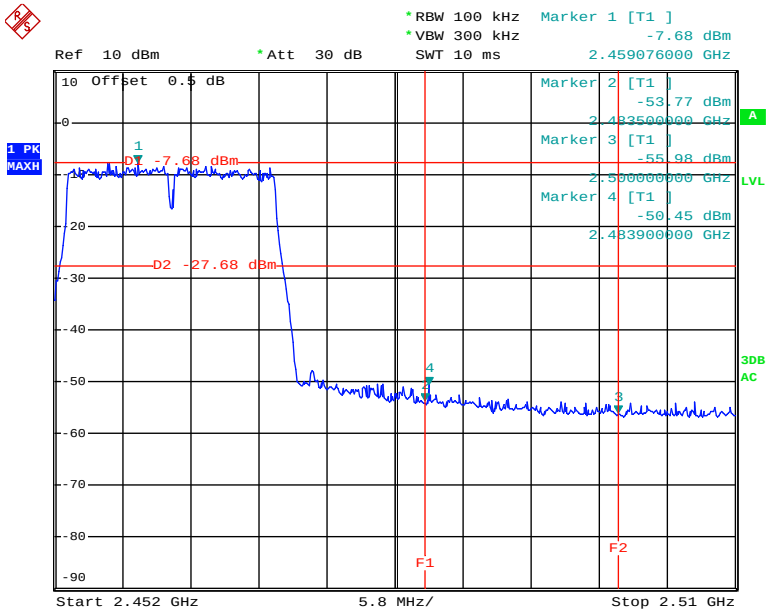
Date: 13.OCT.2015 09:48:02

802.11n ht20 Band Edge, Left Side



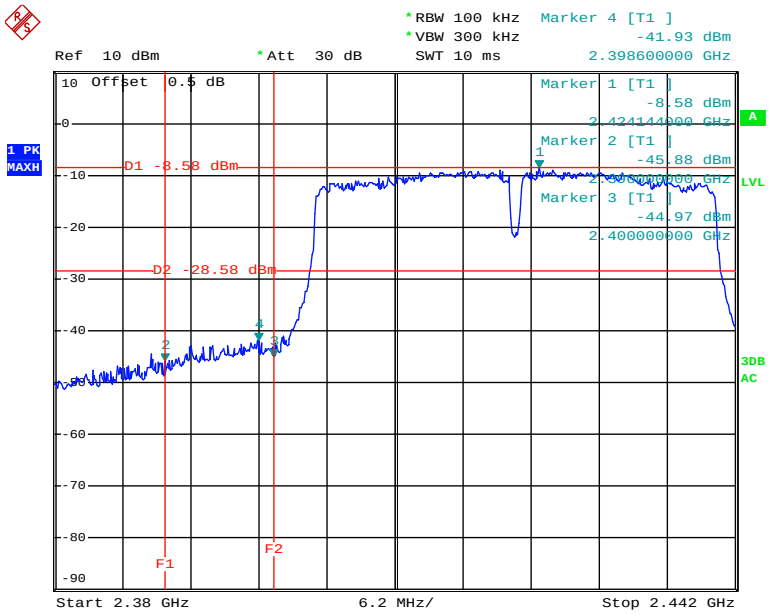
Date: 13.OCT.2015 09:37:07

802.11n ht20 Band Edge, Right Side



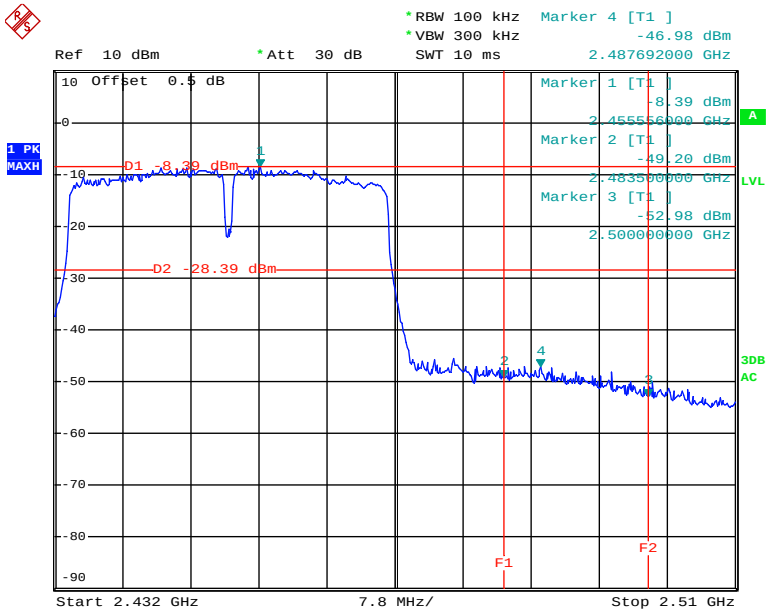
Date: 13.OCT.2015 09:46:14

802.11n ht40 Band Edge, Left Side



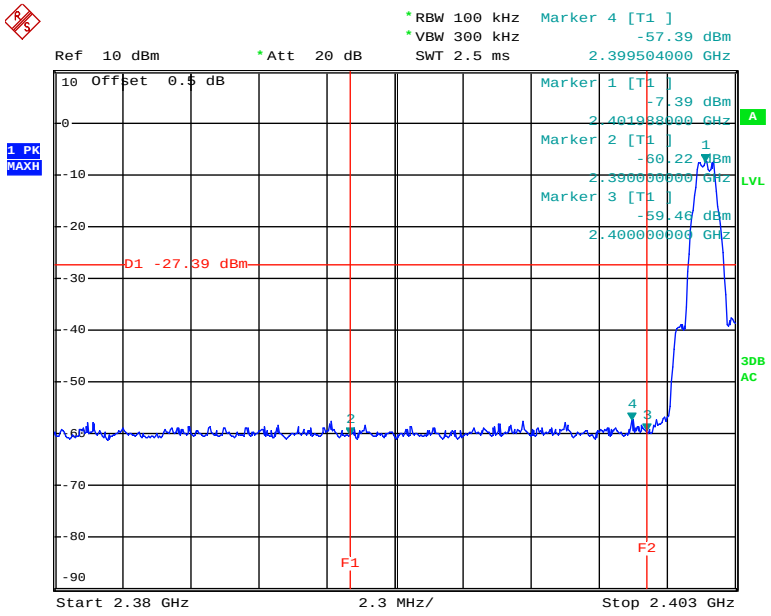
Date: 13.OCT.2015 09:40:05

802.11n ht40 Band Edge, Right Side



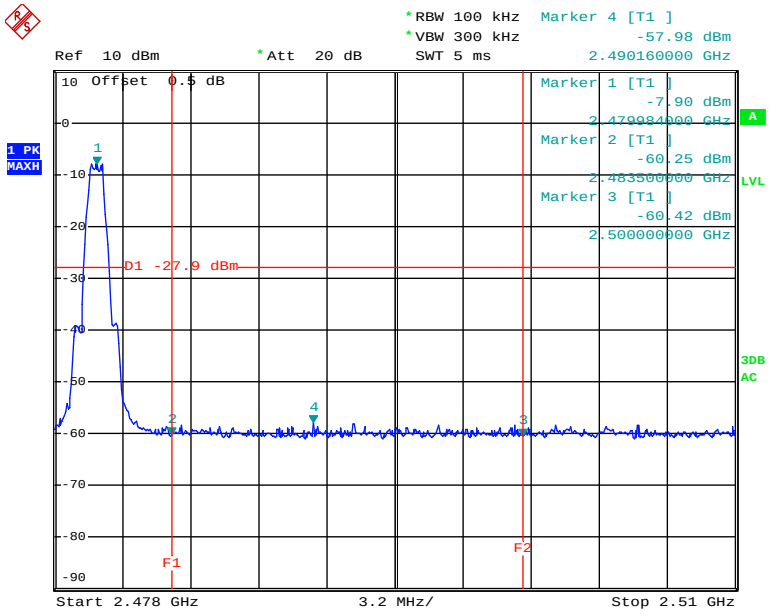
Date: 13.OCT.2015 09:43:52

BLE Band Edge, Left Side



Date: 12.OCT.2015 11:25:48

BLE Band Edge, Right Side



Date: 12.OCT.2015 11:27:20

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 v03r03

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

*** 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:	27.1 °C
Relative Humidity:	52 %
ATM Pressure:	101.3 kPa

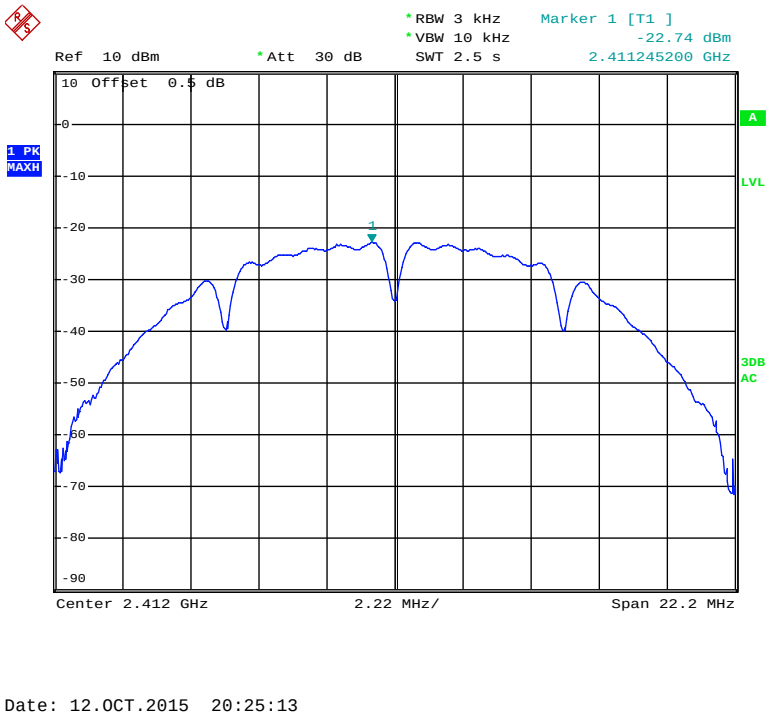
** The testing was performed by Allen Qiao on 2015-10-12.*

Test Mode: Transmitting

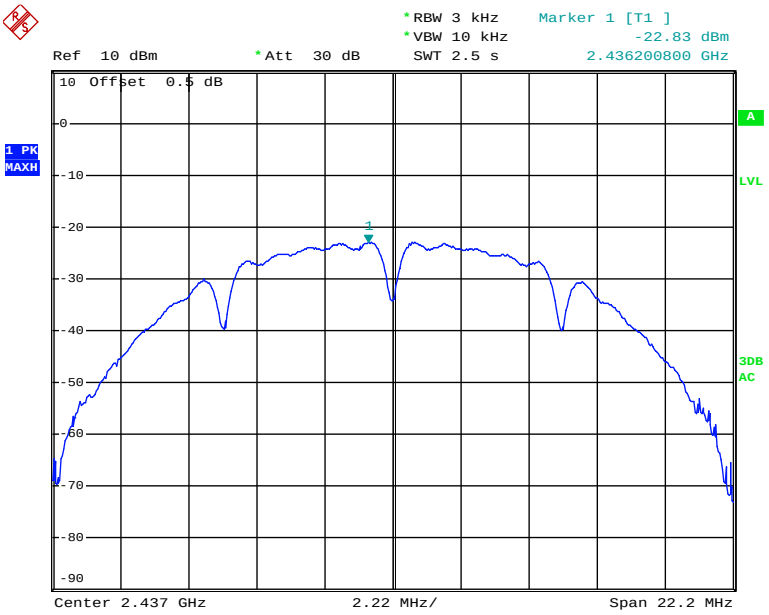
Test Result: Compliant. Please refer to the following table and plots

Test mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	Low	2412	-22.74	≤8
	Middle	2437	-22.83	≤8
	High	2462	-22.99	≤8
802.11g	Low	2412	-22.94	≤8
	Middle	2437	-22.75	≤8
	High	2462	-22.74	≤8
802.11n20	Low	2412	-22.35	≤8
	Middle	2437	-22.32	≤8
	High	2462	-22.31	≤8
802.11n40	Low	2422	-22.52	≤8
	Middle	2437	-22.48	≤8
	High	2452	-22.85	≤8
BLE	Low	2402	-22.26	≤8
	Middle	2440	-22.09	≤8
	High	2480	-22.55	≤8

Power Spectral Density, 802.11b Low Channel

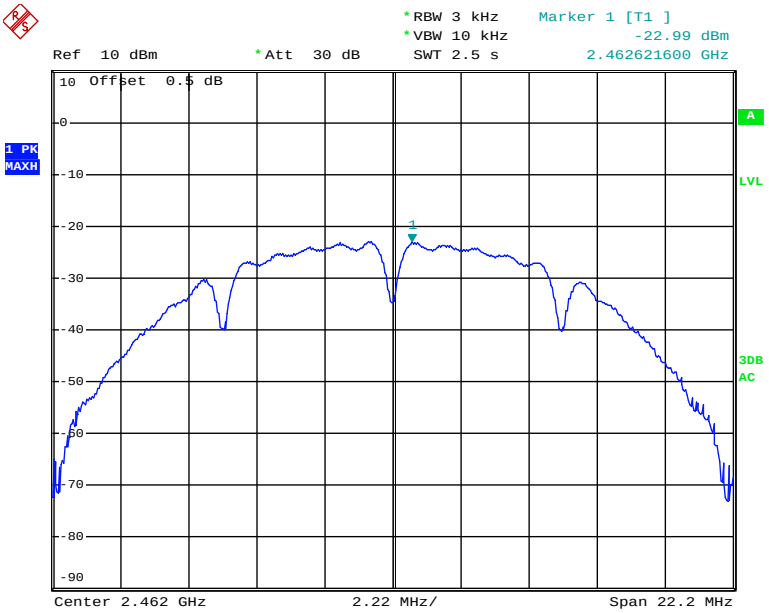


Power Spectral Density, 802.11b Middle Channel



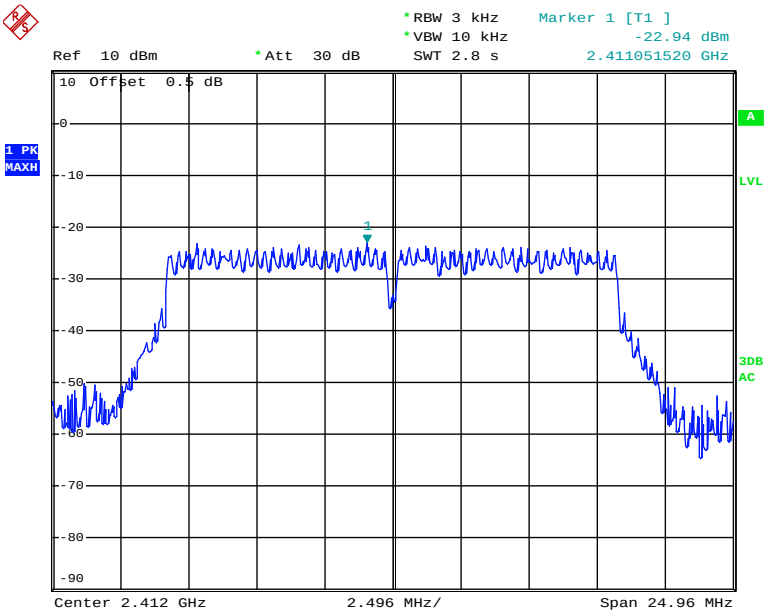
Date: 12.OCT.2015 20:34:12

Power Spectral Density, 802.11b High Channel



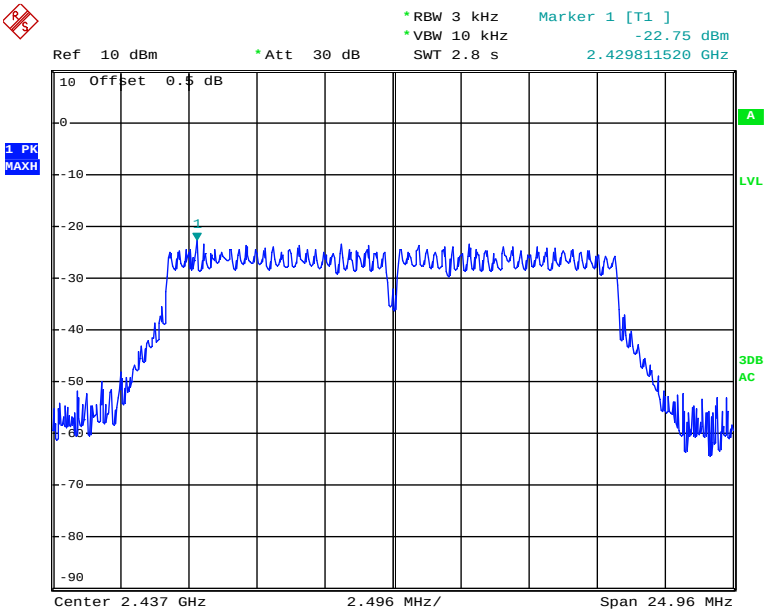
Date: 12.OCT.2015 20:34:38

Power Spectral Density, 802.11g Low Channel



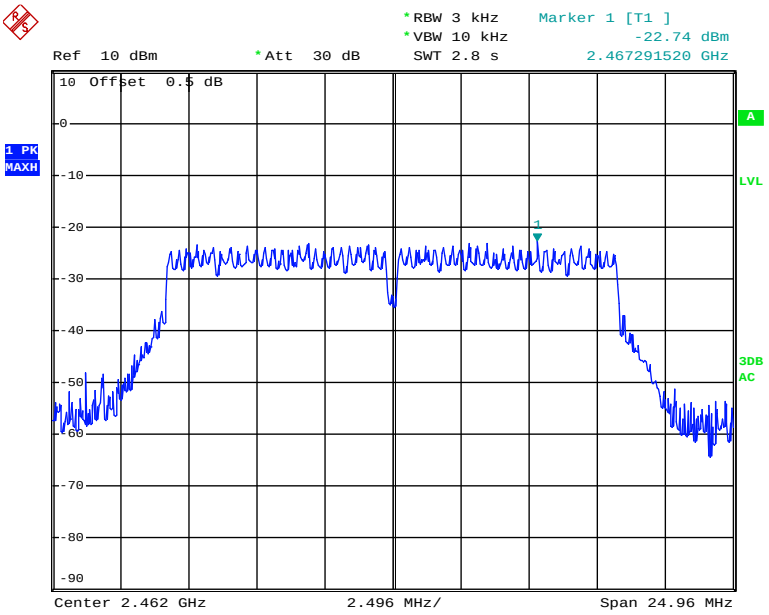
Date: 12.OCT.2015 20:35:28

Power Spectral Density, 802.11g Middle Channel



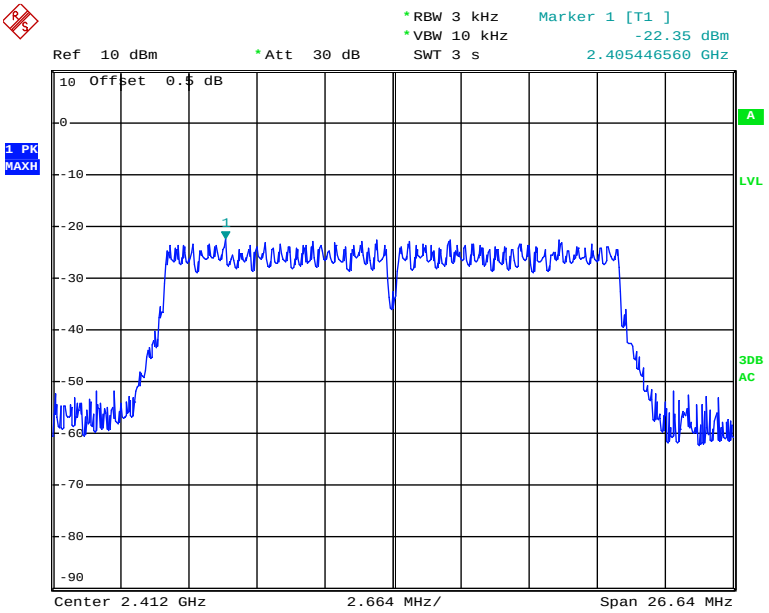
Date: 12.OCT.2015 20:35:48

Power Spectral Density, 802.11g High Channel



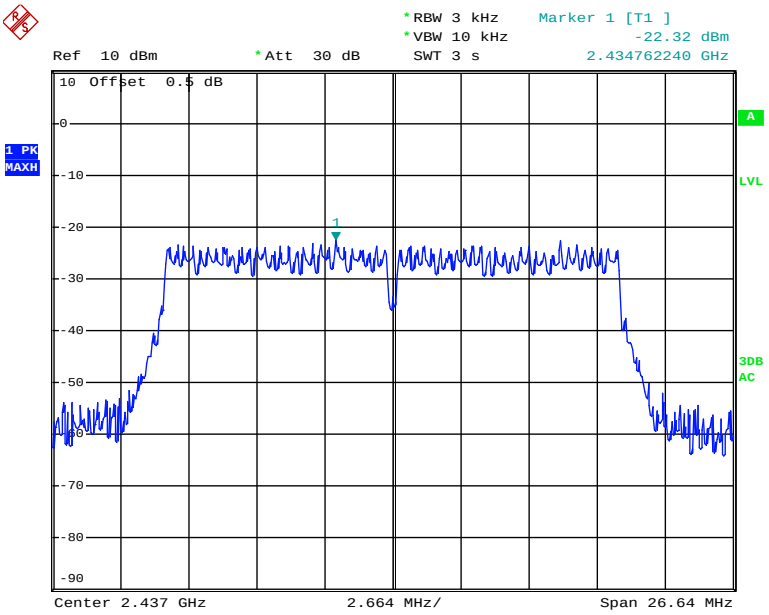
Date: 12.OCT.2015 20:36:16

Power Spectral Density, 802.11n ht20 Low Channel



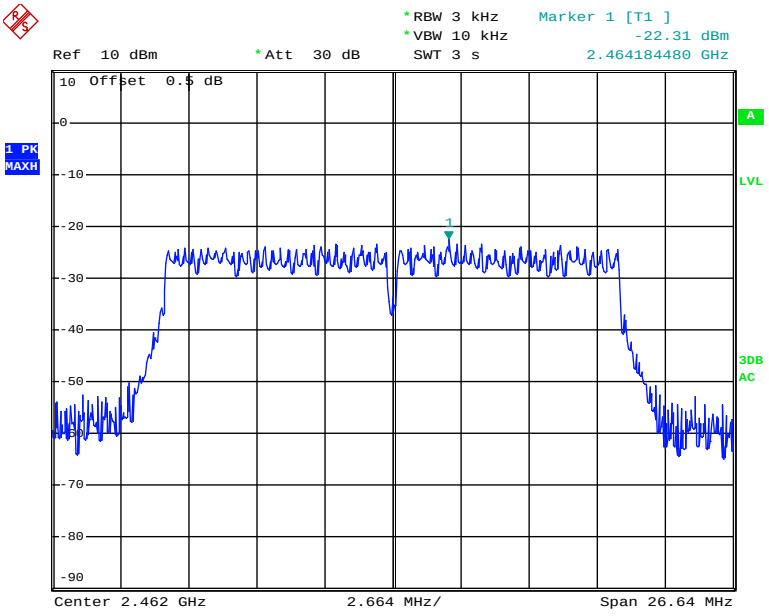
Date: 12.OCT.2015 20:36:53

Power Spectral Density, 802.11n ht20 Middle Channel



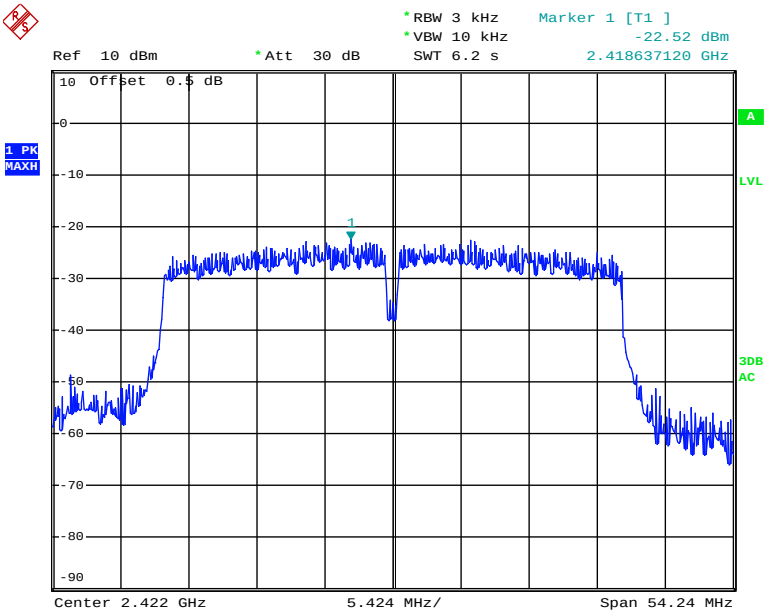
Date: 12.OCT.2015 20:37:37

Power Spectral Density, 802.11n ht20 High Channel



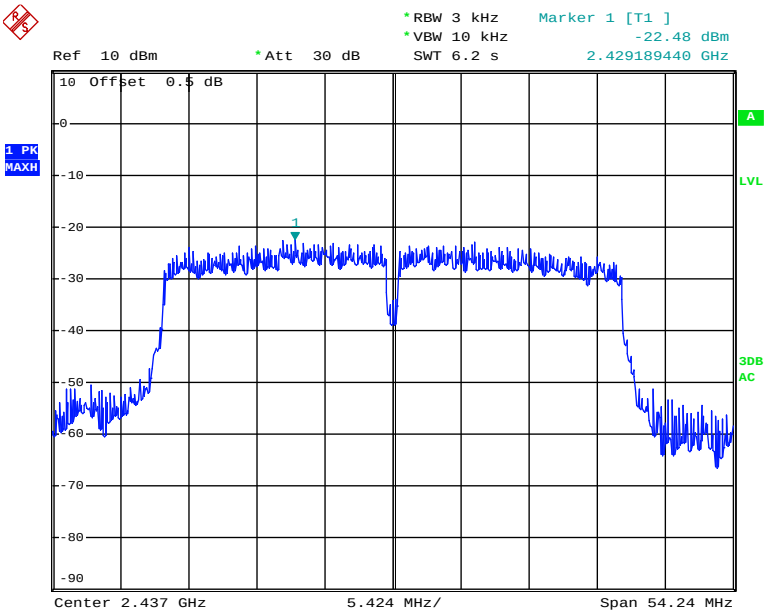
Date: 12.OCT.2015 20:37:54

Power Spectral Density, 802.11n ht40 Low Channel



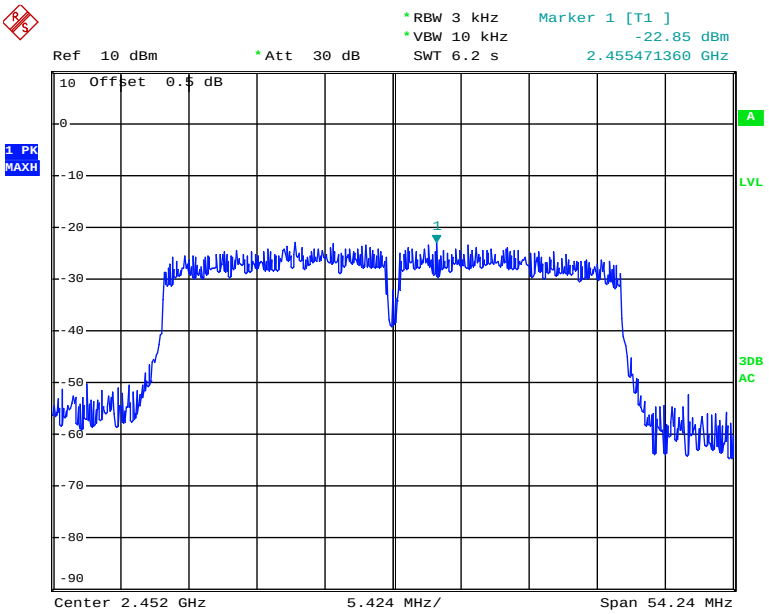
Date: 12.OCT.2015 20:39:43

Power Spectral Density, 802.11n ht40 Middle Channel



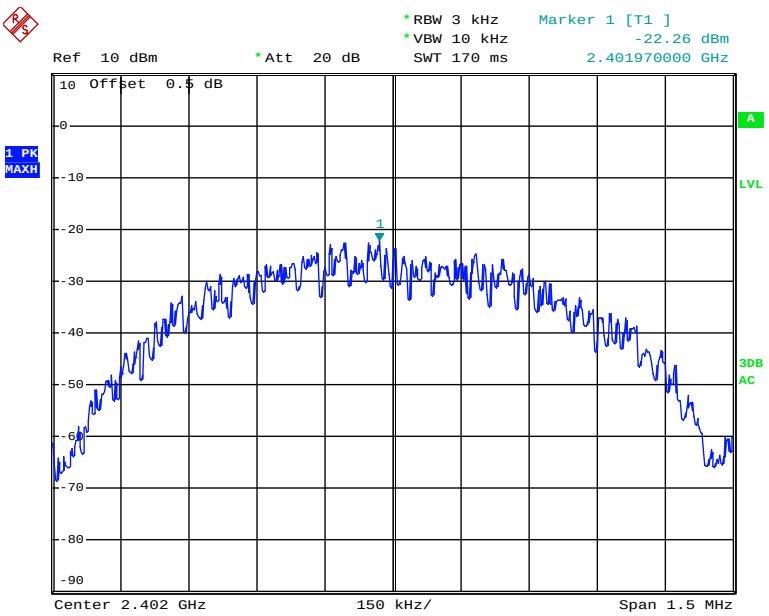
Date: 12.OCT.2015 20:41:15

Power Spectral Density, 802.11n ht40 High Channel



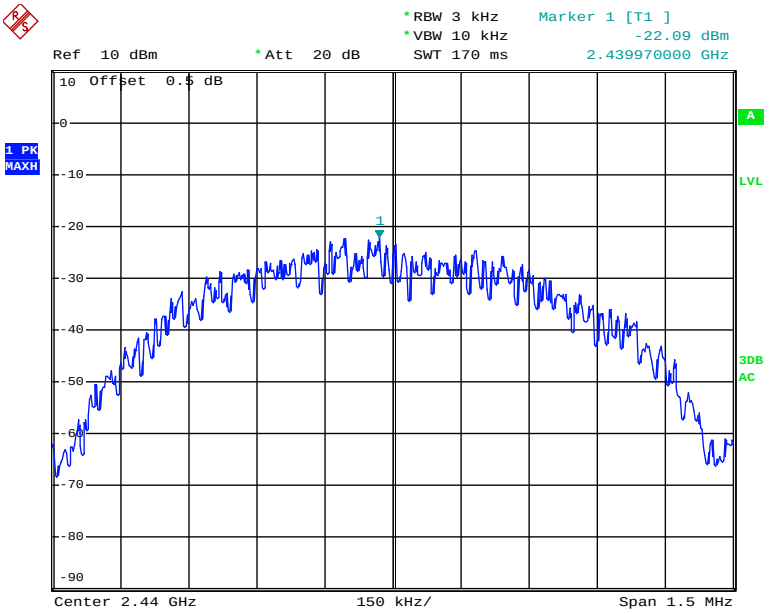
Date: 12.OCT.2015 20:42:28

Power Spectral Density, BLE Low Channel



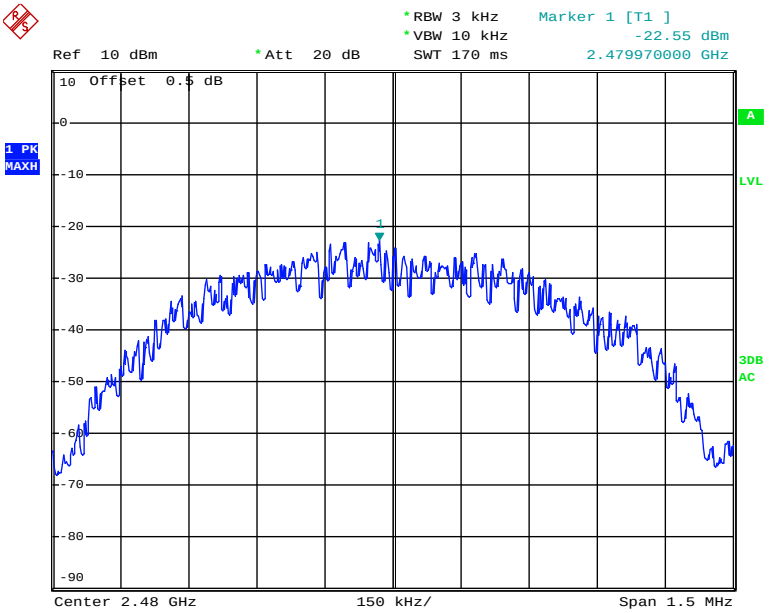
Date: 12.OCT.2015 11:23:06

Power Spectral Density, BLE Middle Channel



Date: 12.OCT.2015 11:23:30

Power Spectral Density, BLE High Channel



Date: 12.OCT.2015 11:23:48

DECLARATION LETTER

Declaration of Alteration

To Whom It May Concern,

We, Posh Mobile Limited, hereby declare that there are some differences between our Multiple Models and testing products. Details as below:

(This is for your reference only.)

Products Description	Name	Equal Max
	Brand	POSH
	Manufacturer	Shenzhen Posh Mobile Limited
	Project No.	RDG151008002, RDG151008002-20

Differences Description			
Testing Products	Multiple Models	Differences Items	Details
S900A	S900B	Model name.	They are same motherboard, and just have the different model name.

Notes: Testing products-the products tested by BACL
Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing products, and only are different for little parameters.

Besides the differences in the table above, we declare the products are identical
We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing

Best Regards,

Signature:
Print Name: K.N. Chong
Title: Manager

Posh Mobile Limited

ADD: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong Tel: (852) 31889834 Fax: (852) 39044979 Email:poshmobileltd@yahoo.com

OPDG004R32 Version1.0 (20140717)

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