



PRODUCT SAFETY AND COMPLIANCE EMC LABORATORY

EMC TEST REPORT - Addendum

Test Report Number – 24365-1 WLAN

Report Date –2011-01-25

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

Signature:

Name: Lei Yang

Title: EMC Project Manager

Test: 2010-12-01 to 2010-12-07

As the responsible test lab manager, I hereby declare that the model tested as specified in this report conforms to the requirements indicated.

Signature:

Name: Yilin Zhao

Title: Test Lab Manager

Date: 2011-01-27

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FCC Registration Number: 177885

IC Registration Number: 109AW-1

ADR Testing Service location ADR BJ
ISO/IEC-17025:2005 accredited by UKAS



2404

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Test Report Details

Tests Performed By: Motorola (Beijing) Mobility Technologies Co.,
Ltd.
Asia Global Compliance Labs
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Beijing, 100102, P. R. China
Phone: +86 10 8473 2610
FCC Registration Number: 177885
IC Registration Number: 109AW-1

Tests Requested By: Motorola Mobility, Inc.
600 North US Hwy 45
Libertyville, IL 60048
United States

Product Type: Wireless tablet with embedded WLAN

Signaling Capability: Bluetooth, 802.11 a & b & g & n

MEID: 990000520011200

FCC ID: IHDT56MT1

Project number: 24365-1

Testing Complete Date: 2011-01-25

Applicable Standards

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

- ☒ Part 15 Subpart C – Intentional Radiators
- ☐ Part 22 Subpart H - Public Mobile Services
- ☐ Part 24 - Personal Communications Services
- ☐ Part 27 - Wireless Communications Service
- ☐ Part 90 - Private Land Mobile Radio Service

Applicable Standards: ANSI C63.4-2003, RSS-Gen Issue 2, RSS-210 Issue 8.

The following tests were performed according to the regulations:

- The **spurious radiated emission** requirements of **§ 15.247, § 15.249 and § 15.407 of CFR 47 Part 15 2007**, specifically” radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
- Under this project 30 to 1000 MHz, 1 to 26.5 GHz radiated and radiated band-edge measurements were performed for 2.4G band a/b/g/n mode. And 30 to 1000 MHz, 1 to 40 GHz radiated and radiated band-edge measurements were performed for 5G band a/n mode.
- For frequencies below 1 GHz a 100 kHz RBW (6 dB) is used and above 1 GHz a 1 MHz RBW (6 dB) is used.

Summary of Testing

Test	Test Name	Pass/Fail
1	Field Strength of Spurious Emissions	Pass
2	Band-edge Compliance of RF Radiated Emissions	Pass

Test	Test Name	Results
1	Field Strength of Spurious Emissions	See plots
2	Band-edge Compliance of RF Radiated Emissions	See plots

The margin with respect to the limit is the minimum margin for all modes and bands.

General and Special Conditions

The 24365-1 test sample was tested using a fully charged Model SNN5880A 1930mAH battery when applicable. Where a battery could not be used due to the need for a controlled variation of input voltage, an external power supply was utilized.

Special test SW was used for these tests. Radiated testing was done in the following modes:

802.11 a mode subband1 @ 12 Mbps
802.11 a mode subband4 @ 12 Mbps
802.11 b mode @ 11 Mbps
802.11 g mode @ 9 Mbps
802.11 n mode 2.4G 400ns GI @ 14.4 Mbps
802.11 n mode 2.4G 800ns GI @ 6.5 Mbps
802.11 n mode 5G subband1 400ns GI @ 14.4 Mbps
802.11 n mode 5G subband1 800ns GI @ 6.5 Mbps
802.11 n mode 5G subband4 400ns GI @ 7.2 Mbps
802.11 n mode 5G subband4 800ns GI @ 6.5 Mbps

All testing was done in an indoor controlled environment with an average temperature of $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ and relative humidity of $45\% \pm 6\%$ over the dates used for testing.

Equipment and Cable Configurations

The EUT was tested in a stand-alone configuration that is representative of typical use.

Measuring Equipment and Calibration Information

Equipment related to the semi-anechoic chamber testing:

Equipment	Model/type	Serial number	Operational range	Date of calibration
EMI Receiver	ESU 40	100036	20 Hz – 40 GHz	05.16.2010
Pre Amplifiers	PA-02-0001:	2007343	10 kHz – 3 GHz	06.26.2010
	PA-02-218	2007344	3 GHz – 18 GHz	06.26.2010
	PA-02-5	2007345	18 GHz – 40 GHz	06.26.2010
Radio Communication Tester	CMU 200	112790	GSM 850/900/1800/1900, IS95, UMTS, CDMA, Bluetooth	N/A
Band Reject Filter	WRCG	N/A	ISM band	N/A
	4N45-24241/3/6	N/A	WLAN	N/A

The antennas used in the various tests are listed in the below table.

Antenna	Type	Serial number	Operational range	Date of calibration
Hybrid-log periodic	TDK HLP 3003C	130361	30 MHz – 3 GHz	11.07.08
Double ridged Horn	TDK HRN0118	130303	1 GHz – 18 GHz	03.26.09
Double ridged Horn	ETS HRN3116	00071938	18 GHz – 40 GHz	10.17.08

Note that the hybrid antenna and horn antenna are on a three-year calibration cycle. All other equipments are on a one-year calibration cycle.

Description of WLAN (WiFi) Transmitter

The 24365-1 cell phone offers WLAN as a feature. The WLAN direct sequence spread-spectrum transceiver is designed to operate between 2400 and 2483 MHz. The WLAN antenna is mounted on the PCB inside of the EUT. The antenna installation is permanent. For a more thorough description of the functionality please refer to Exhibit 12 of this package.

As a WLAN transmitter, it is designed operate with other WLAN devices as defined by industrial standard. In this application, the device is battery-operated.

There is a switch in the Bluetooth/WLAN (BT/WiFi) module that switches between BT and WiFi. They share the same antenna, and you are able to use a BT headset while in a WiFi VoIP call, however, they do not transmit and receive at the same time. There is a 20 ms delay (for switching between the two systems in time domain) using an intelligent multiplexing scheme. Even though they share the same antenna they are **NOT ON** at the same time. The WiFi is therefore tested as a standalone transmitter.

Measurement Procedures and Data

FIELD STRENGTH OF SPURIOUS EMISSIONS

CFR Part 2.1053, 15.247, 15.249, 15.407

Measurement Procedure

The Equipment-Under-Test is placed inside the semi-anechoic chamber on a polystyrene table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The field strength of each radiated emission is calculated by correcting the EMI receiver level for cable loss, amplifier gain, and antenna correction factors.

For 30 MHz – 18 GHz:

Field Strength (dB μ V/m) = EMI Receiver Level (dB μ V) + Cable Loss (dB) -
Amplifier Gain (dB) + Filter loss (dB) + Antenna
Correction Factor (3/m)

For 18 GHz – 40 GHz:

Field Strength (dB μ V/m) = EMI Receiver Level (dB μ V) + Cable Loss (dB) -
Amplifier Gain (dB) + Filter loss (dB) + Antenna
Correction Factor (1/m)

A fully charged battery was used for the supply voltage.

The test sample was operated during the measurements under the following conditions:

- Tests were performed at low, mid and high channels.
- Tests were performed in both horizontal and vertical polarity.
- Tests were performed in both operational WiFi bands (a), (b), (g) and (n)

Measurement Results

Comments:

The band edge measurements crossing the corner for the low channel with respect to the average limit line is acceptable when applying the FCC rule specified in CFR 15.35(b) for the use of peak detector above 1 GHz. The peak detector limit line has been added to the graphical plots.

For peak emissions detected above 1 GHz, only those emissions that are higher than the AVG limit line plus 8 dB are selected for final emission analysis.

WLAN Band (b)

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (b).

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBμV/m)	(1) Limit (dBμV/m)	(AVG) Margin Lim1 (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
4824.00	4822.31	44.74	54.00	-9.26	144.00	100.00	H
4824.00	4824.06	43.73	54.00	-10.27	115.20	150.00	V
7236.00	7239.34	45.75	54.00	-8.25	206.10	103.00	H
7236.00	7237.54	46.20	54.00	-7.80	214.80	167.00	V

Low Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBμV/m)	(1) Limit (dBμV/m)	(AVG) Margin Lim1 (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
4874.00	4873.95	44.28	54.00	-9.72	349.40	159.00	H
4874.00	4874.15	48.55	54.00	-5.45	116.50	173.00	V
7311.00	7311.37	42.79	54.00	-11.21	231.40	103.00	H
7311.00	7312.98	43.26	54.00	-10.74	268.70	145.00	V

Middle Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBμV/m)	(1) Limit (dBμV/m)	(AVG) Margin Lim1 (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
4924.00	4923.93	49.05	54.00	-4.95	313.70	101.00	H
4924.00	4924.06	49.09	54.00	-4.91	317.40	102.00	V
7836.00	7836.54	33.57	54.00	-20.43	340.50	399.00	H
7836.00	7833.78	33.75	54.00	-20.25	345.70	151.00	V

High Channel Dual Polarization Y

The spectrum is measured from 30MHz to 10th harmonic and the worst-case emissions are reported.

There are no discernible emissions are found beyond the 3rd harmonic for this device.

WLAN Band (g)

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (g).

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBμV/m)	(1) Limit (dBμV/m)	(AVG) Margin Lim1 (dB)	Ttbl Agl (deg)	EUT Ttbl Agl (deg)	Pol
4824.00	4823.48	42.49	54.00	-11.51	138.50	138.50	H
4824.00	4824.23	37.33	54.00	-16.67	126.30	126.30	V

Low Channel Dual Polarization X

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBμV/m)	(1) Limit (dBμV/m)	(AVG) Margin Lim1 (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
4874.00	4873.34	44.67	54.00	-9.33	145.10	102.00	H
4874.00	4872.13	43.44	54.00	-10.56	126.40	140.00	V

Middle Channel Dual Polarization Y

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBμV/m)	(1) Limit (dBμV/m)	(AVG) Margin Lim1 (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
4924.00	4921.74	41.90	54.00	-12.10	324.80	102.00	H
4924.00	4922.07	42.68	54.00	-11.32	336.60	104.00	V

High Channel Dual Polarization X

The spectrum is measured from 30MHz to 10th harmonic and the worst-case emissions are reported.

There are no discernible emissions are found beyond the 2nd harmonic for this device.

WLAN Band (a)

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (a) sub band 1.

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10360.00	10362.14	-50.05	-27.00	-23.05	346.60	239.00	H
10360.00	10355.35	-47.86	-27.00	-20.86	212.30	146.00	V

Low Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10440.00	10437.27	-45.32	-27.00	-18.32	31.20	106.00	H
10440.00	10437.06	-46.68	-27.00	-19.68	163.50	183.00	V

Middle Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10480.00	10475.55	-45.16	-27.00	-18.16	48.30	100.00	H
10480.00	10477.13	-46.14	-27.00	-19.14	163.70	176.00	V

High Channel Dual Polarization Z

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (a) sub band 4

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11490.00	11493.24	-44.20	-27.00	-17.20	358.10	109.00	H
11490.00	11486.46	-38.05	-27.00	-11.05	134.30	150.00	V

Low Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11570.00	11569.81	-38.43	-27.00	-11.43	66.70	137.00	H
11570.00	11571.19	-36.20	-27.00	-9.20	131.70	150.00	V

Middle Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11610.00	11606.37	-42.45	-27.00	-15.45	134.80	137.00	H
11610.00	11605.48	-36.07	-27.00	-9.07	209.70	140.00	V

High Channel Dual Polarization Z

The spectrum is measured from 30MHz to 10th harmonic and the worst-case emissions are reported.

There are no discernible emissions are found beyond the 2nd harmonic for this device.

WLAN Band (n)

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (n) 5G sub band 1 400ns GI.

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10360.00	10355.35	-50.03	-27.00	-23.03	0.70	235.00	H
10360.00	10356.33	-45.32	-27.00	-18.32	190.90	140.00	V

Low Channel Dual Polarization X

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10440.00	10442.06	-49.58	-27.00	-22.58	118.00	327.00	H
10440.00	10444.48	-44.33	-27.00	-17.33	234.30	162.00	V

Middle Channel Dual Polarization X

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10480.00	10479.48	-49.96	-27.00	-22.96	360.10	380.00	H
10480.00	10483.06	-45.75	-27.00	-18.75	216.00	144.00	V

High Channel Dual Polarization X

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (n) 5G sub band 1 800ns GI.

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11490.00	11490.00	-49.21	-27.00	-22.21	356.30	400.00	H
11490.00	11488.47	-41.67	-27.00	-14.67	271.50	165.00	V

Low Channel Dual Polarization X

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11570.00	11574.91	-47.71	-27.00	-20.71	13.50	115.00	H
11570.00	11569.24	-34.47	-27.00	-7.47	142.70	145.00	V

Middle Channel Dual Polarization X

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11610.00	11609.74	-42.52	-27.00	-15.52	99.50	109.00	H
11610.00	11612.38	-32.70	-27.00	-5.70	142.90	144.00	V

High Channel Dual Polarization X

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (n) 5G sub band 4 400ns GI.

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10360.00	10361.48	-47.99	-27.00	-20.99	67.30	102.00	H
10360.00	10359.45	-47.09	-27.00	-20.09	126.40	144.00	V

Low Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10480.00	10475.23	-48.28	-27.00	-21.28	324.60	377.00	H
10480.00	10478.10	-50.02	-27.00	-23.02	70.90	259.00	V

Middle Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
10480.00	10479.93	-45.31	-27.00	-18.31	142.30	102.00	H
10480.00	10483.95	-47.81	-27.00	-20.81	131.60	188.00	V

High Channel Dual Polarization Z

Only the worst field strength of spurious emissions for each channel is displayed for WLAN (n) 5G sub band 4 800ns GI.

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11570.00	11574.89	-47.92	-27.00	-20.92	21.10	399.00	H
11570.00	11570.54	-50.52	-27.00	-23.52	199.10	302.00	V

Low Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11570.00	11572.10	-40.70	-27.00	-13.70	161.40	130.00	H
11570.00	11568.87	-35.16	-27.00	-8.16	191.00	140.00	V

Middle Channel Dual Polarization Z

Freq (MHz)	Freq (Max) (MHz)	(PEAK) EMI (dBm)	Limit (dBm)	(PEAK) Margin (dB)	Ttbl Agl (deg)	Twr Ht (cm)	Pol
11610.00	11608.81	-35.52	-27.00	-8.52	52.30	107.00	H
11610.00	11610.61	-38.65	-27.00	-11.65	235.10	149.00	V

High Channel Dual Polarization Z

The spectrum is measured from 30MHz to 10th harmonic and the worst-case emissions are reported.

There are no discernible emissions are found beyond the 2nd harmonic for this device.

BAND-EDGE COMPLIANCE OF RF RADIATED EMISSIONS

CFR 47 Part 15.247, 15.407

Measurement Procedure

The test sample is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

For 30 MHz – 18 GHz:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{EMI Receiver Level (dB}\mu\text{V)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} + \text{Filter loss (dB)} + \text{Antenna Correction Factor (3/m)}$$

For 18 GHz – 26.5 GHz:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{EMI Receiver Level (dB}\mu\text{V)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} + \text{Filter loss (dB)} + \text{Antenna Correction Factor (1/m)}$$

The test sample WLAN transmitter was enabled using a test script.

A fully charged battery was used for the supply voltage.

Measurement Results

Comments:

The band edge measurements crossing the corner for the low/high channel with respect to the average limit line is acceptable when applying the FCC rule specified in CFR 47 part 15.35(b) for the use of peak detector above 1 GHz.

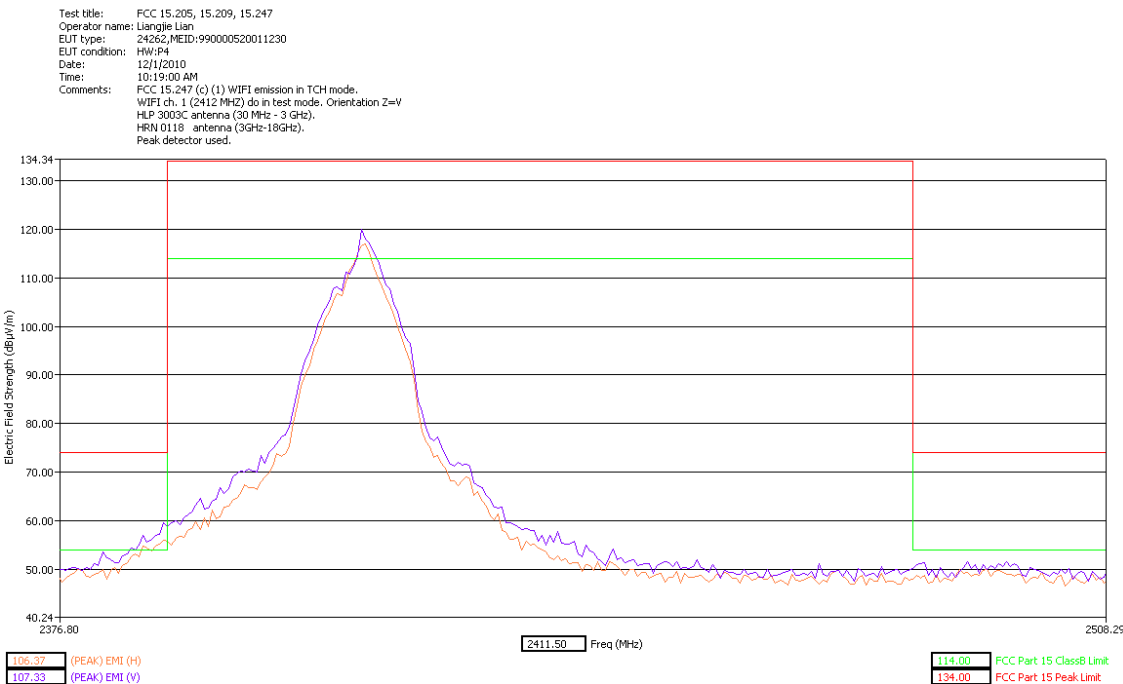
The peak detector limit line has been added to the graphical plots.

Note: No WLAN band notch filters were used.

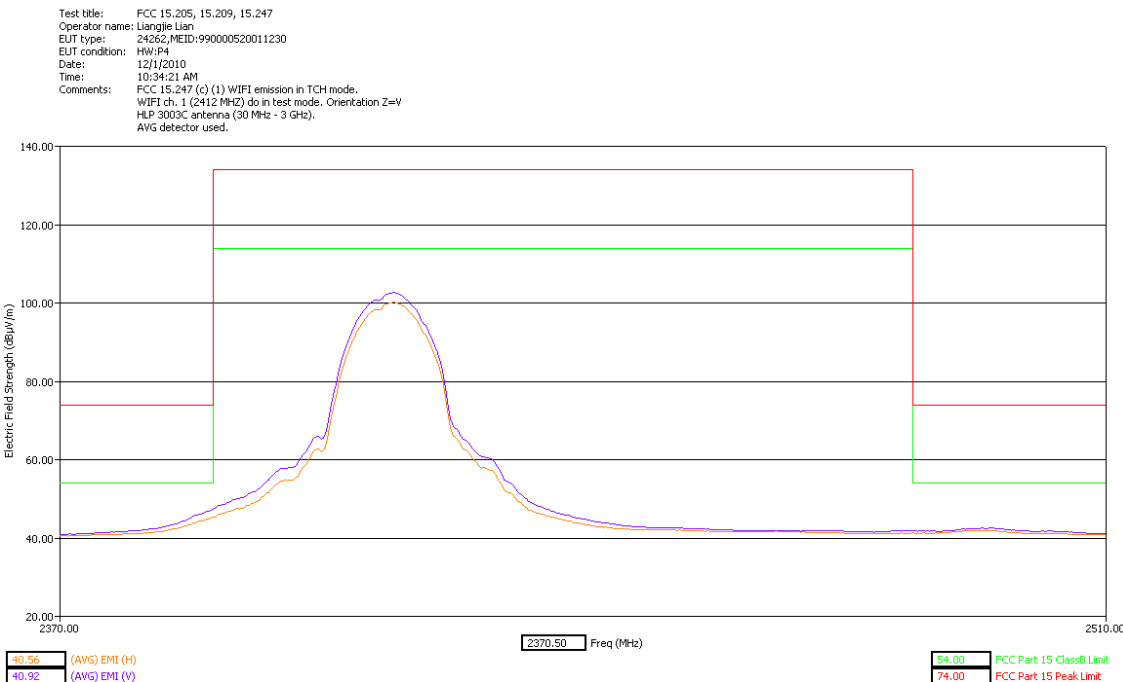
See below attached plots for the measurement results with both peak detector and average detector:

WLAN Band (b) @ 11Mbps

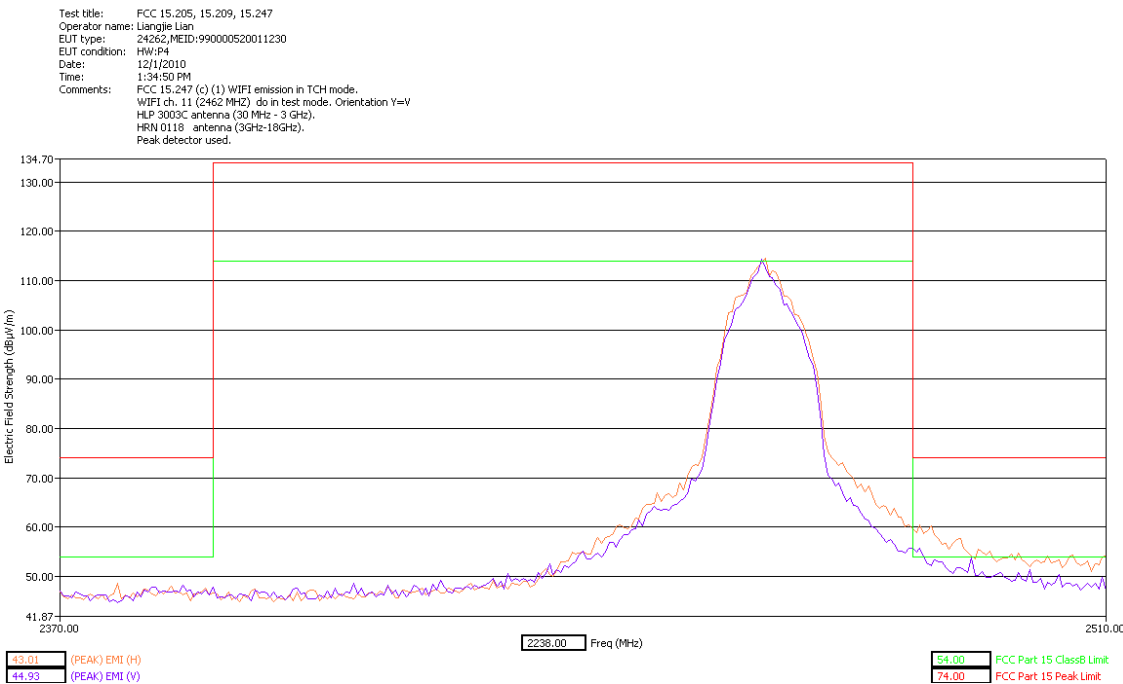
Only the worst band edge is displayed for WLAN band (b)



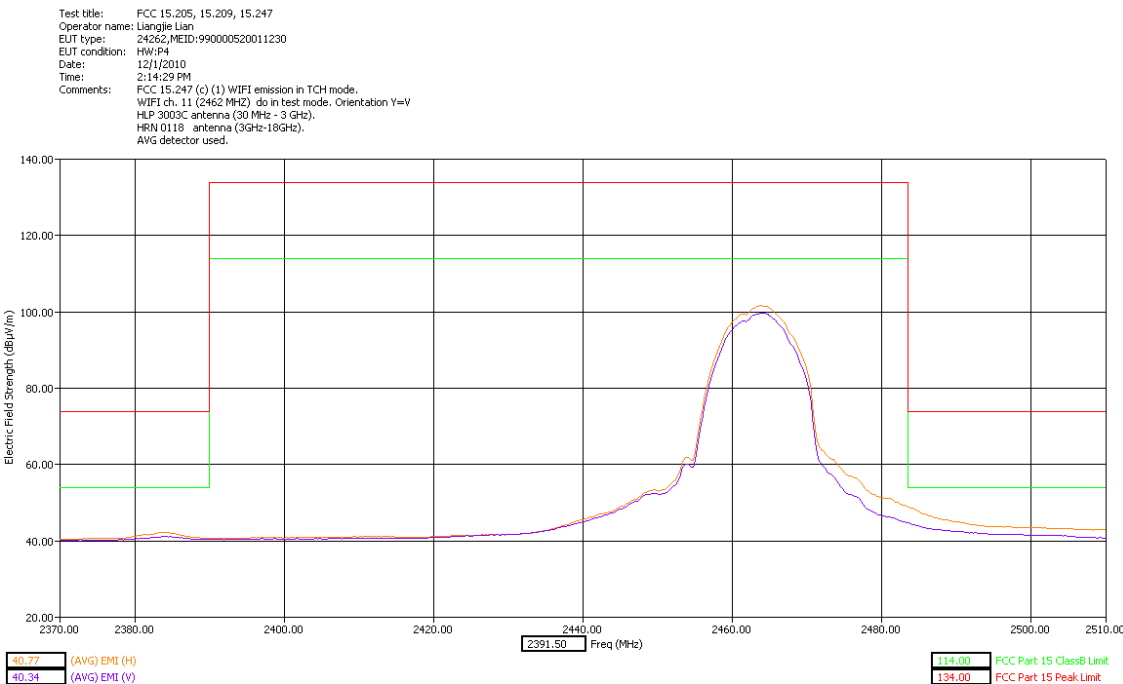
Low Band Edge Z Orientation Peak Detector



Low Band Edge Z Orientation AVG Detector



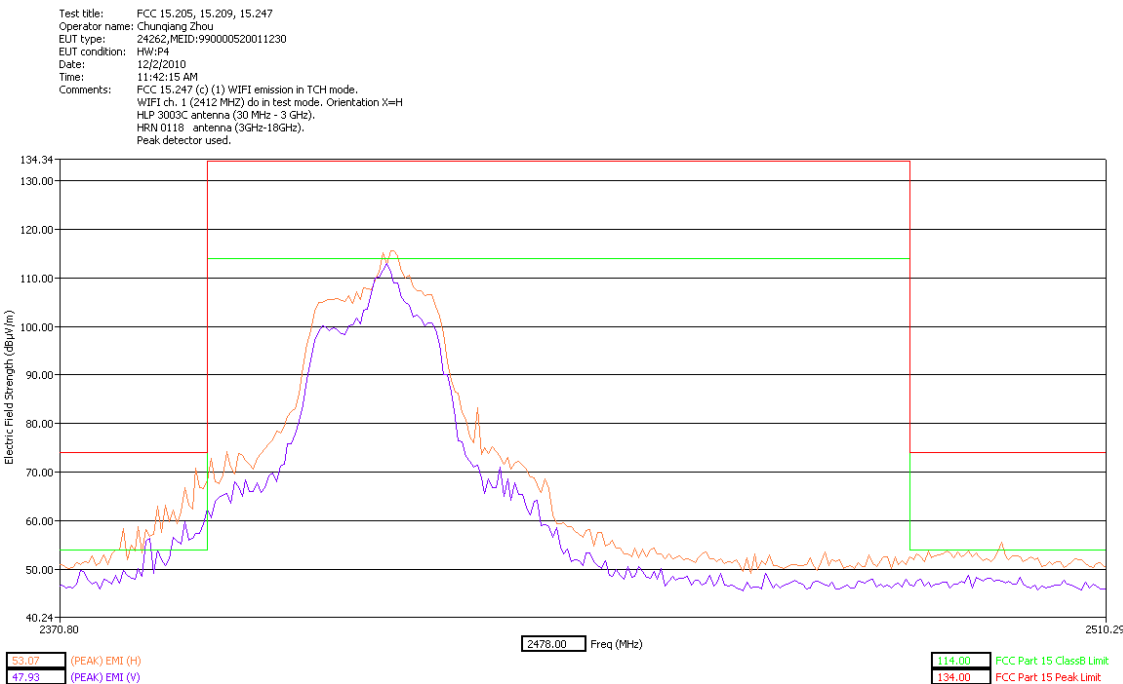
High Band Edge Y Orientation Peak Detector



High Band Edge Y Orientation AVG Detector

WLAN Band (g) @ 9Mbps

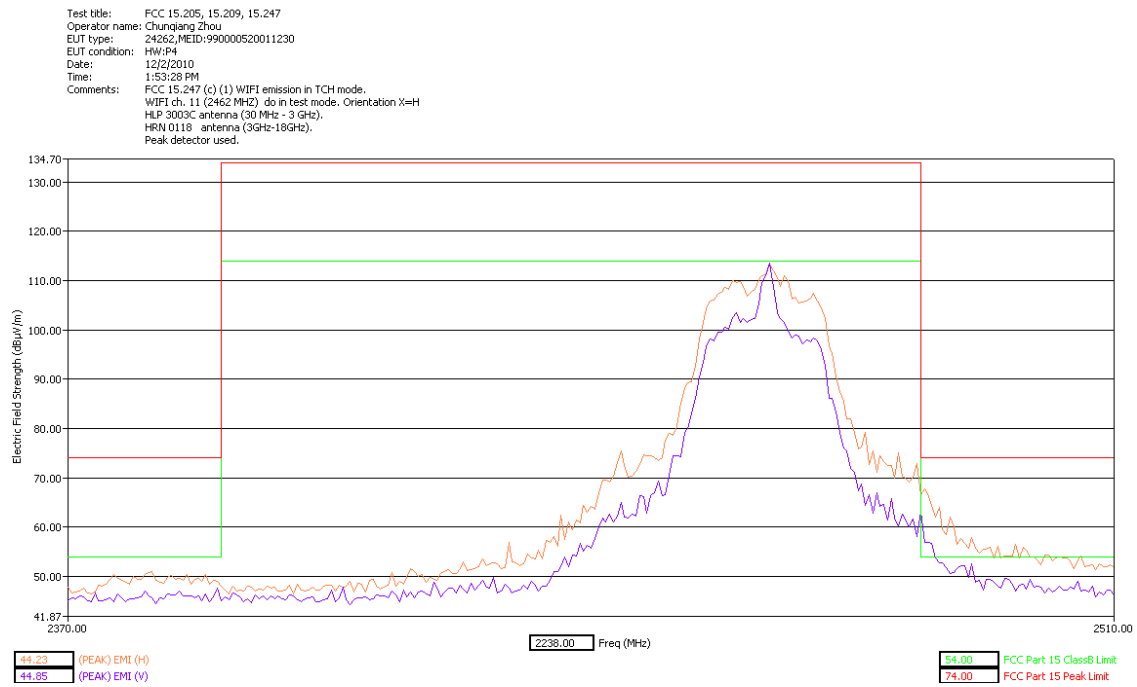
Only the worst band edge is displayed for WLAN band (g)



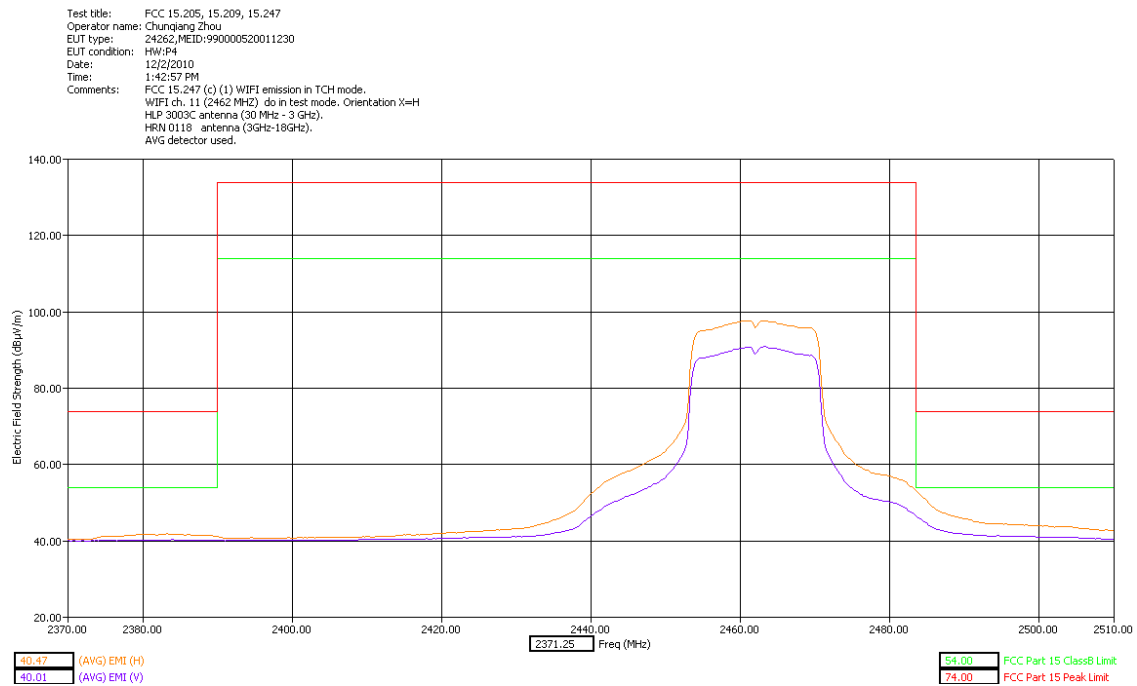
Low Band Edge X Orientation Peak Detector



Low Band Edge X Orientation AVG Detector



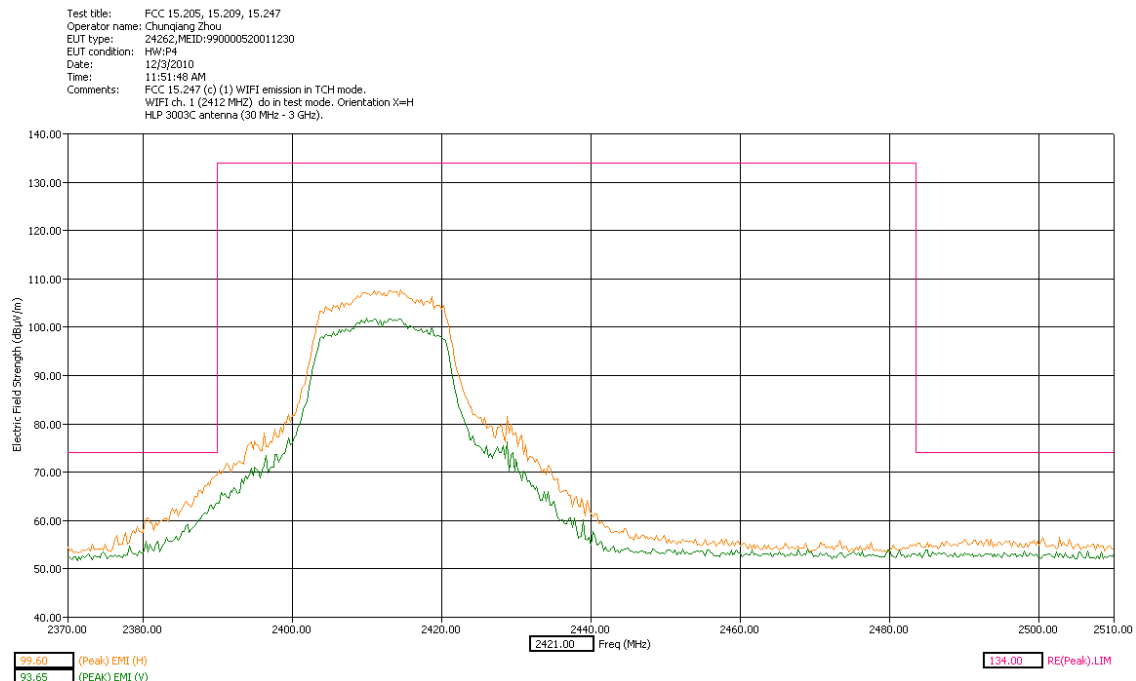
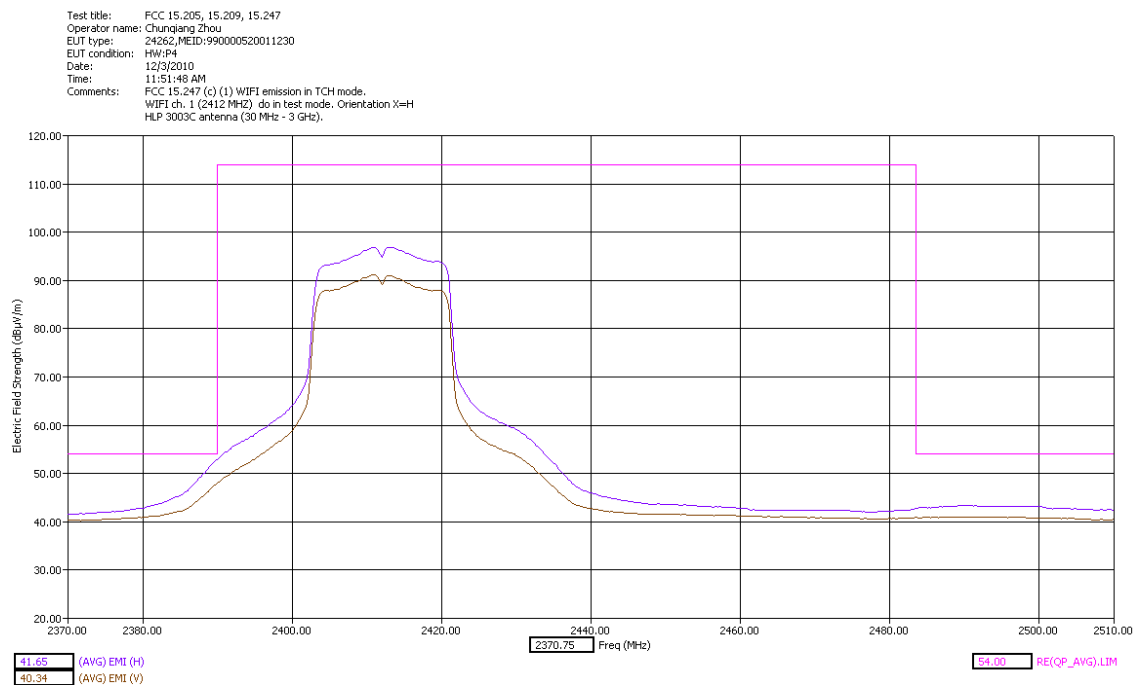
High Band Edge X Orientation Peak Detector

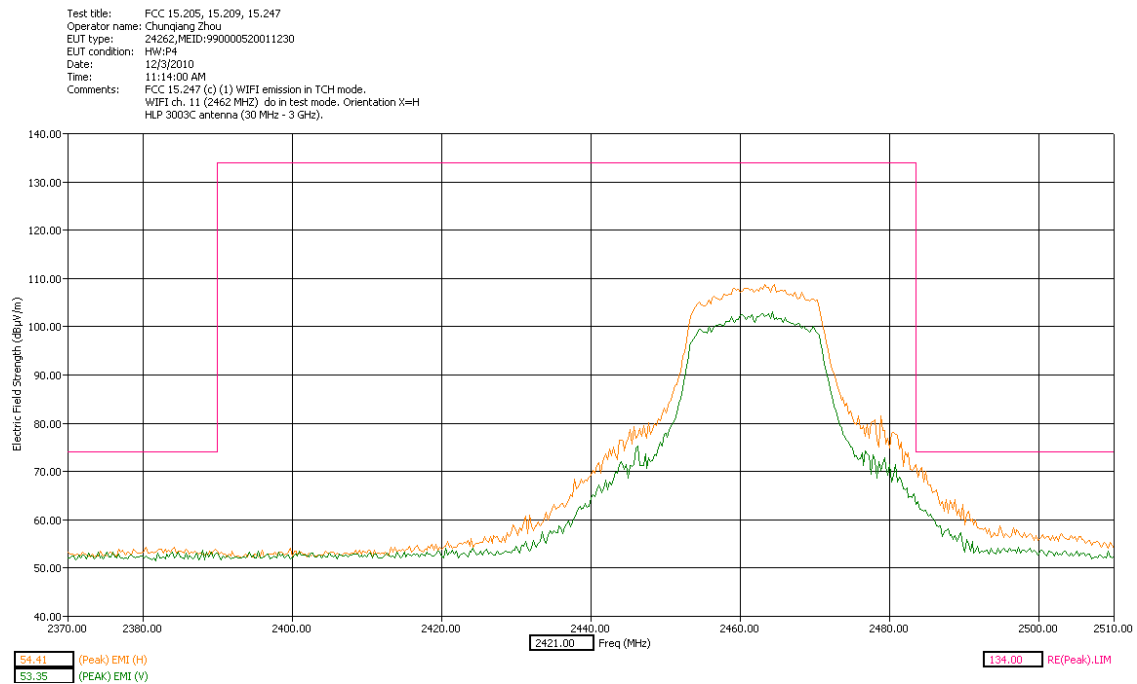


High Band Edge X Orientation AVG Detector

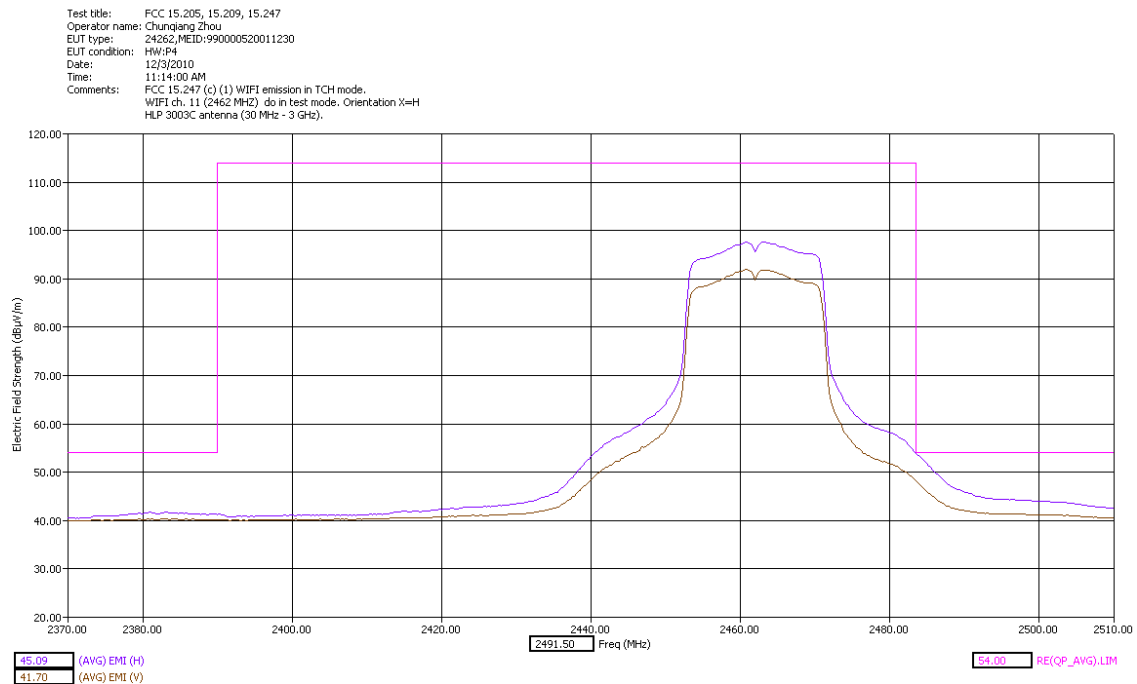
WLAN Band (n) 2.4G 400ns GI @ 14.4 Mbps

Only the worst band edge is displayed for WLAN band (n).

**Low Band Edge X Orientation Peak Detector****Low Band Edge X Orientation AVG Detector**



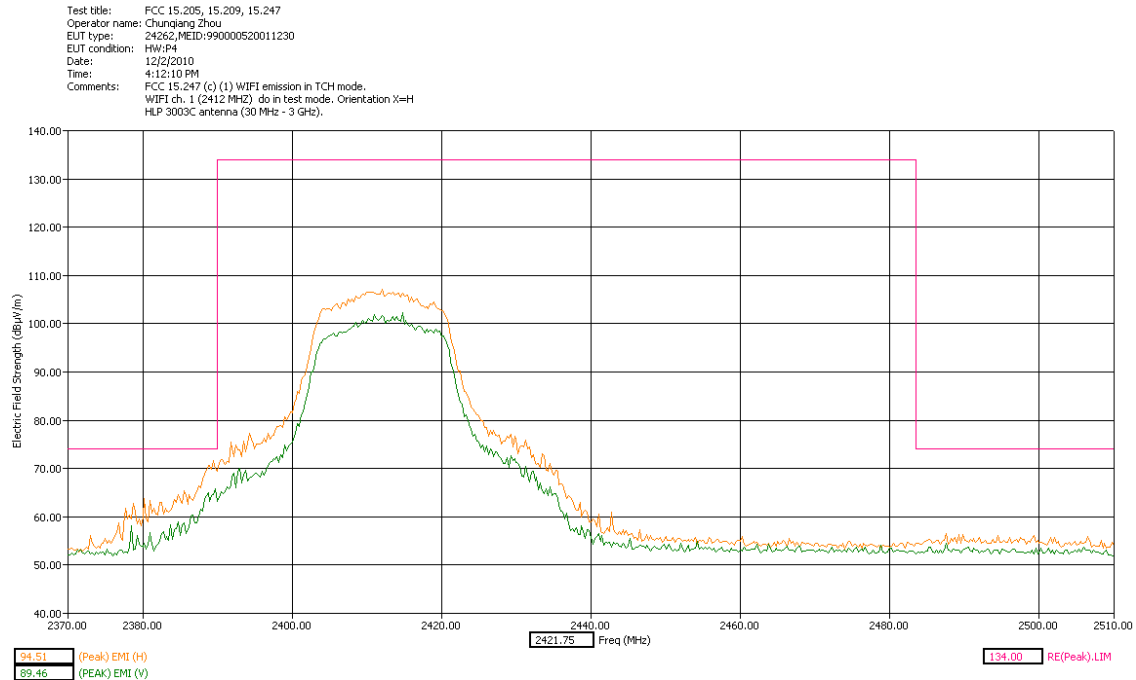
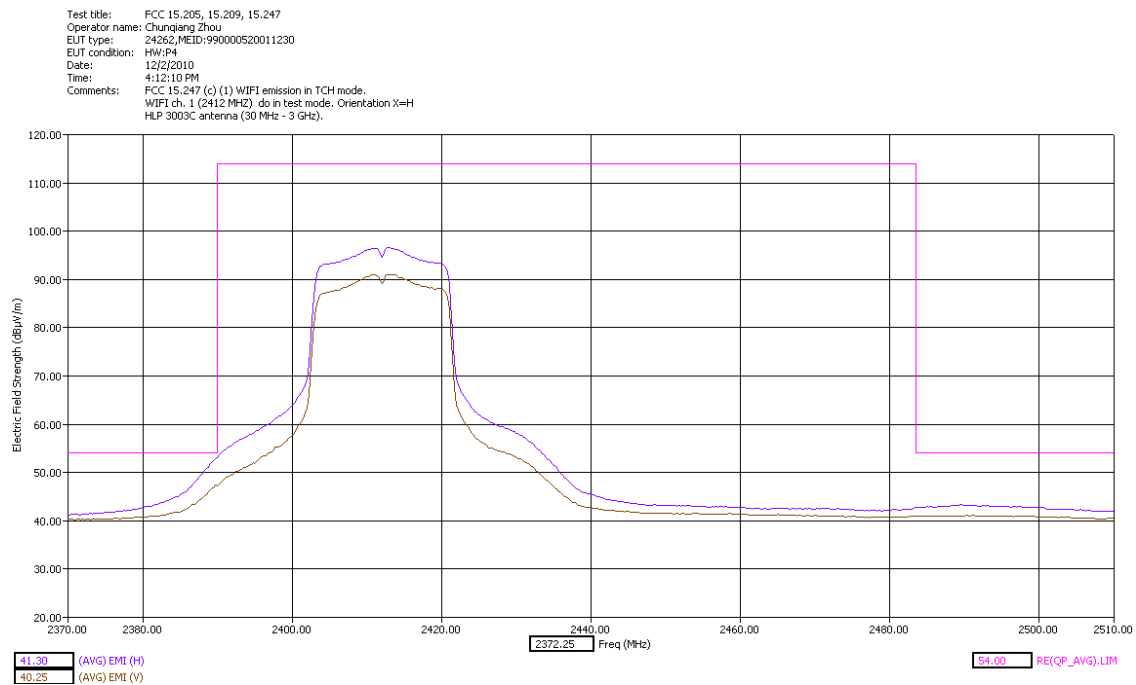
High Band Edge X Orientation Peak Detector

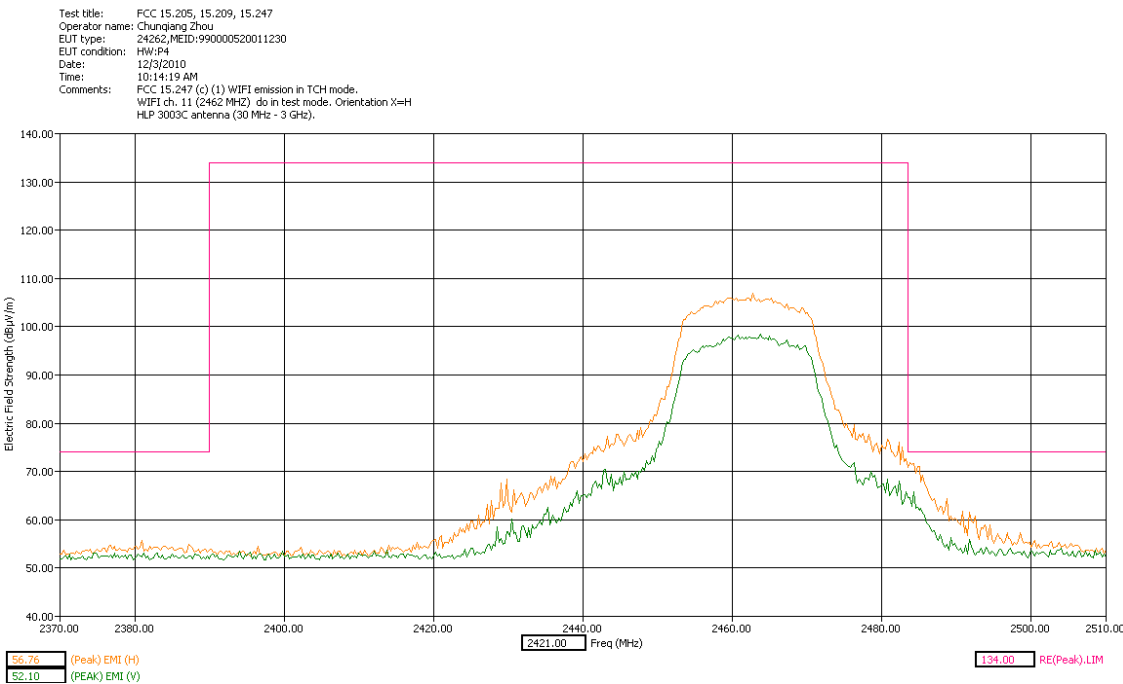


High Band Edge X Orientation AVG Detector

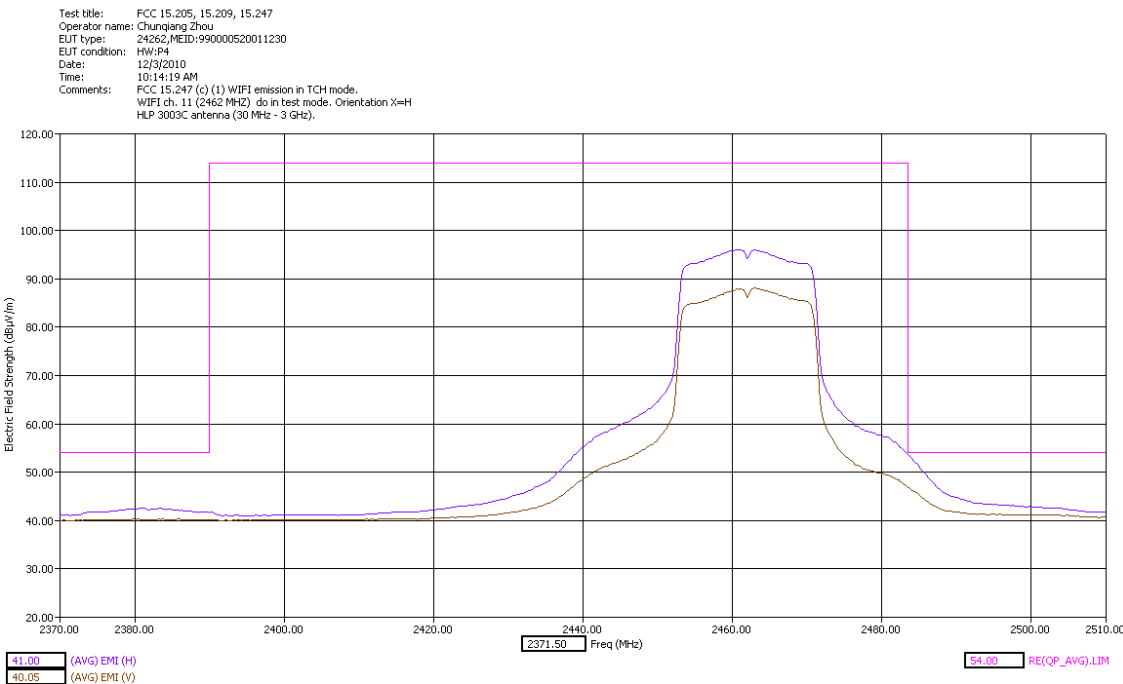
WLAN Band (n) 2.4G 800ns GI @ 6.5 Mbps

Only the worst band edge is displayed for WLAN band (n).

**Low Band Edge X Orientation Peak Detector****Low Band Edge X Orientation AVG Detector**



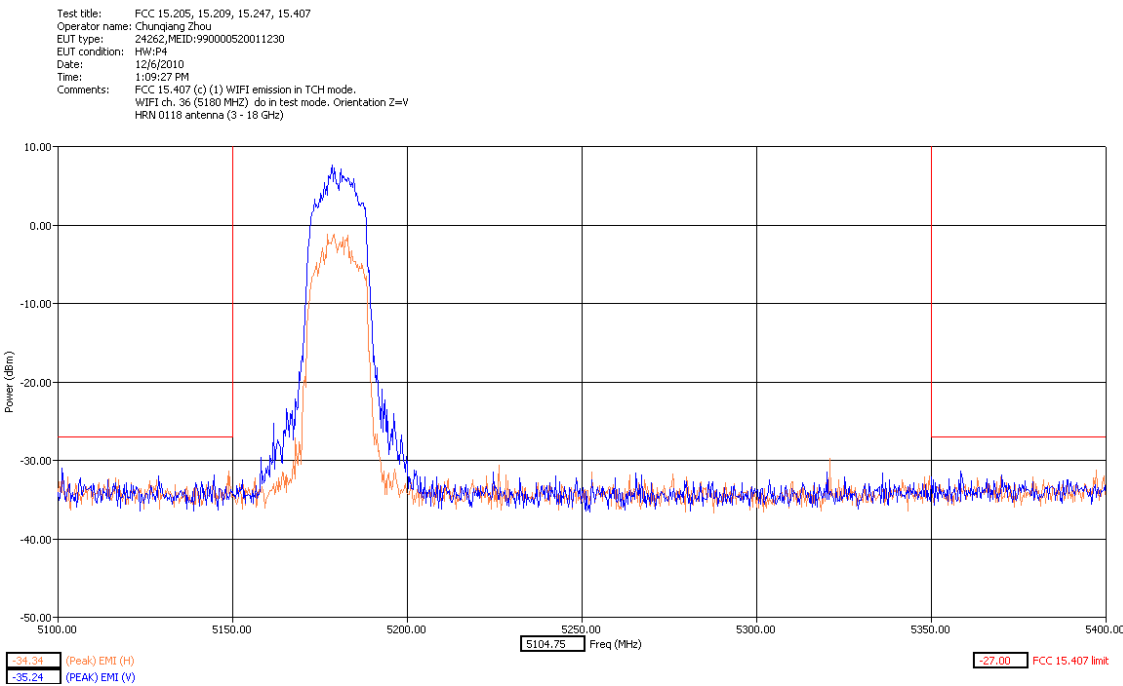
High Band Edge X Orientation Peak Detector



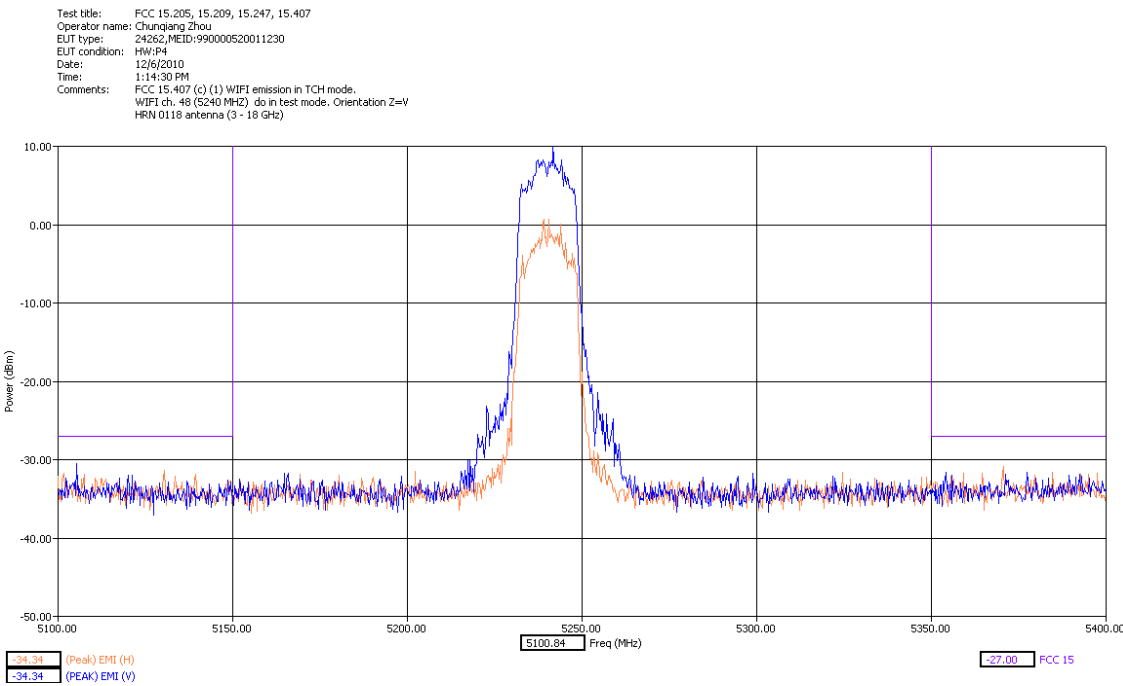
High Band Edge X Orientation AVG Detector

WLAN Band (a) sub band 1 @ 12 Mbps

Only the worst band edge is displayed for WLAN band (a).

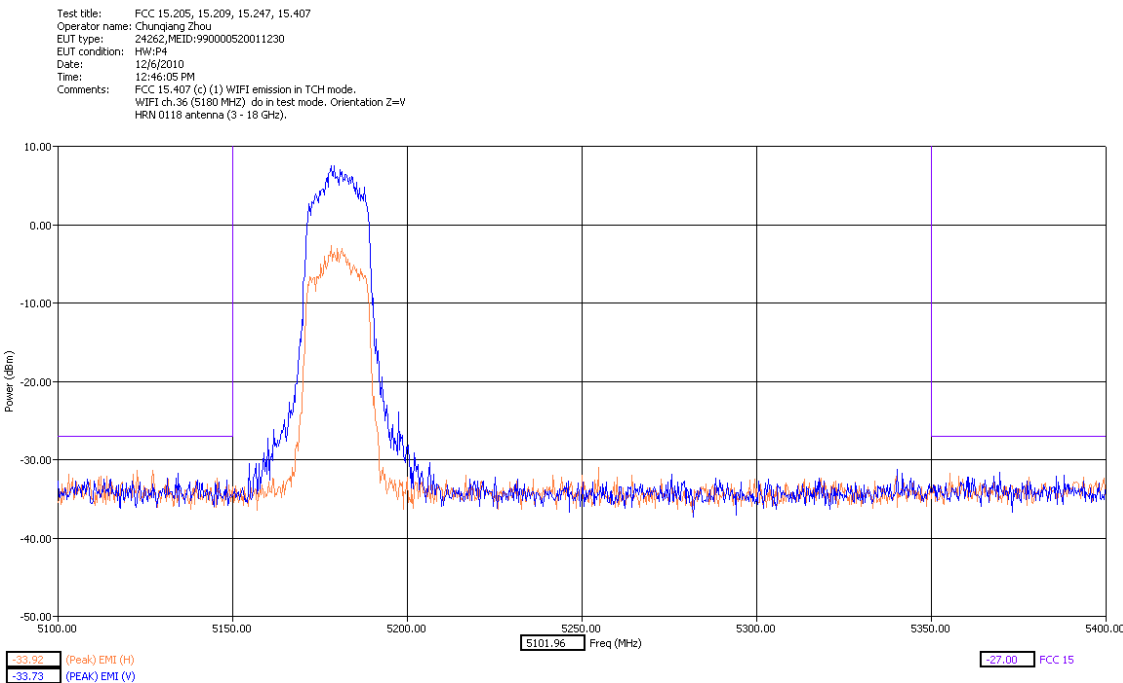


Low Band Edge Z Orientation Peak Detector

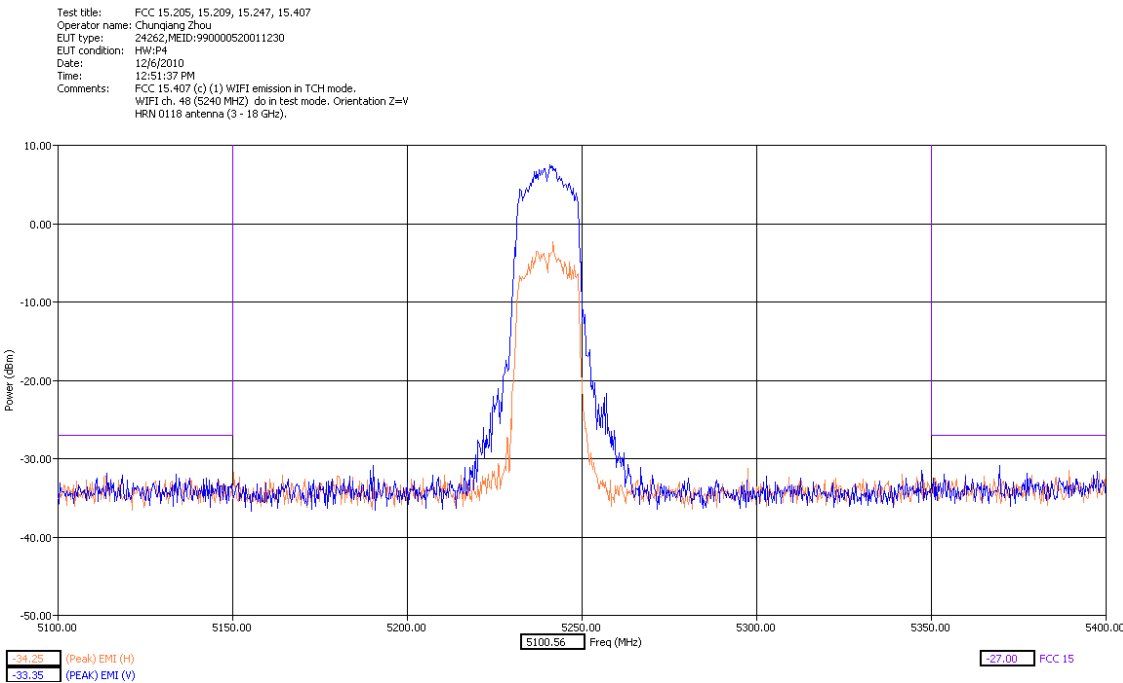


High Band Edge Z Orientation Peak Detector

WLAN Band (n) sub band 1 400ns GI @ 14.4 Mbps
 Only the worst band edge is displayed for WLAN band (n).



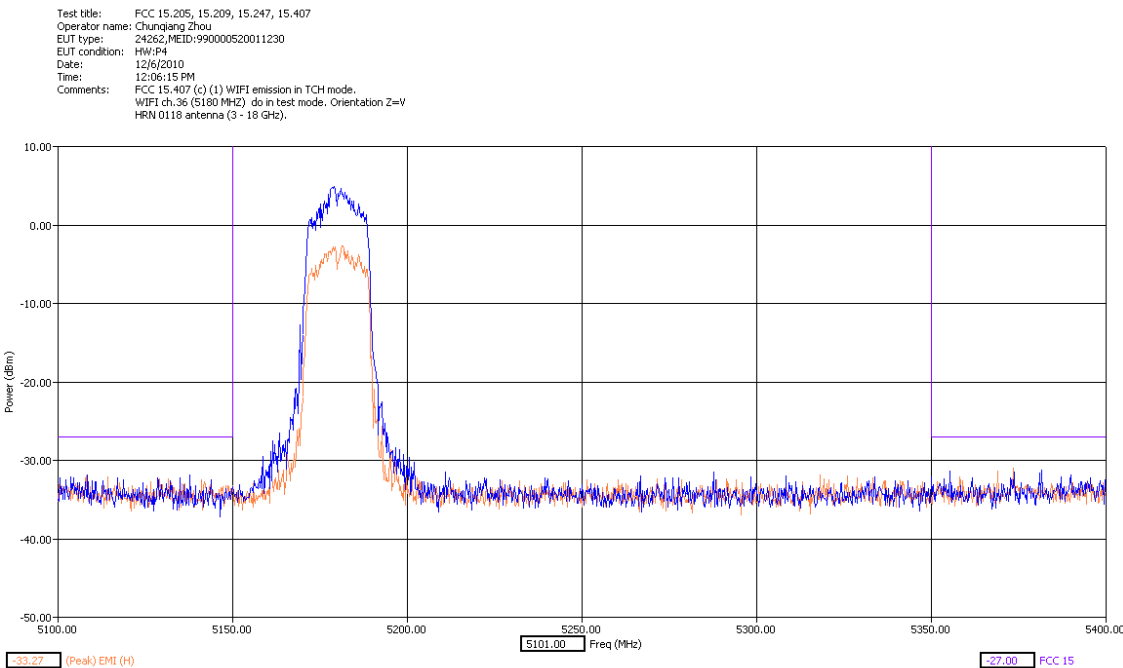
Low Band Edge Z Orientation Peak Detector



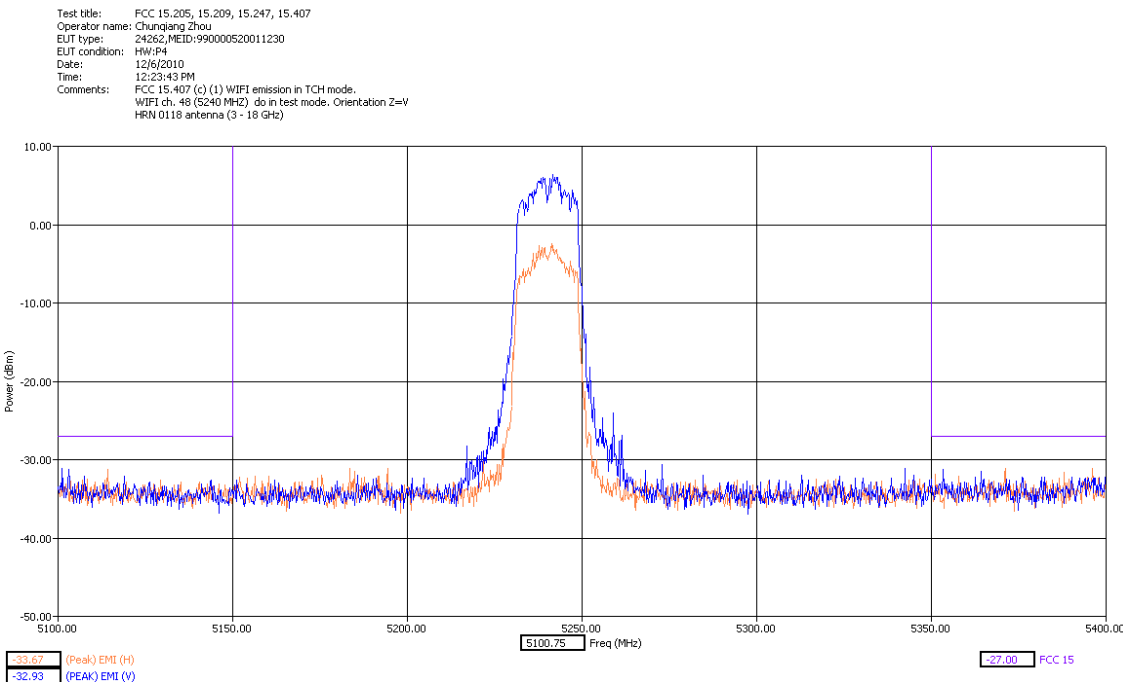
High Band Edge Z Orientation Peak Detector

WLAN Band (n) sub band 1 800ns GI @ 6.5 Mbps

Only the worst band edge is displayed for WLAN band (n).



Low Band Edge Z Orientation Peak Detector



High Band Edge Z Orientation Peak Detector

End of Test Report