



FCC 47 CFR PART 15 SUBPART C

for

MEHOME CAR CAMERA

Model: MC2, MC1, MC2PRO, MC3, MC3PRO, ME1, ME1PRO, ME2, ME2PRO, ME3, ME3PRO, MD1, MD1RRO, MD2, MD2PRO, MD3, MD3PRO, MC4, MC4PRO, MC5, MC5PRO, MC6, MC6PRO, MC7, MC8, MD4, MD5, MD6, MT1, MT2, MT3, MK1, MK2, MK3, MR1, MR2, MR3, MA1, MA2, MA3

Brand: MEHOME

Test Report Number:

C160127Z03-RP1

Issued Date: March 4, 2016

Issued for

Shenzhen Mehome Co., Ltd.

**No.1801 Taibang Building, 6 Gaoxin Road South, Nanshan,
Shenzhen, Guandong, PRC.**

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	March 4, 2016	Initial Issue	ALL	Nancy Fu



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1 TEST CERTIFICATION

Product	MEHOME CAR CAMERA
Model	MC2, MC1, MC2PRO, MC3, MC3PRO, ME1, ME1PRO, ME2, ME2PRO, ME3, ME3PRO, MD1, MD1RRO, MD2, MD2PRO, MD3, MD3PRO, MC4, MC4PRO, MC5, MC5PRO, MC6, MC6PRO, MC7, MC8, MD4, MD5, MD6, MT1, MT2, MT3, MK1, MK2, MK3, MR1, MR2, MR3, MA1, MA2, MA3
Brand	MEHOME
Tested	January 27~ March 4, 2016
Applicant	Shenzhen Mehoma Co., Ltd. No.1801 Taibang Building,6 Gaoxin Road South,Nanshan,Shenzhen,Guandong,PRC.
Manufacturer	Shenzhen Mehoma Co., Ltd. No.1801 Taibang Building,6 Gaoxin Road South,Nanshan,Shenzhen,Guandong,PRC.

APPLICABLE STANDARDS

Standard	Test Type	Standard	Test Type
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	● Spurious Emissions ● Conducted Measurement ● Radiated Emissions
15.247(a)(2)	6dB Bandwidth Measurement	15.247(b)(3) 15.247(b)(4)	Peak Power Measurement
15.247(d)	Band Edges Measurement	15.247(e)	Peak Power Spectral Density

We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Sunday Hu
Supervisor of EMC Dept.
Compliance Certification Services (Shenzhen) Inc.

Reviewed by:

Ruby Zhang
Supervisor of Report Dept.
Compliance Certification Services (Shenzhen) Inc.



2 TEST RESULT SUMMARY

APPLICABLE STANDARDS

Standard	Test Type	Result	Remark
15.247(a)(2)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.
15.247(b)(3) 15.247(b)(4)	Peak Power Measurement	Pass	Meet the requirement of limit.
15.247(d)	Band Edges Measurement	Pass	Meet the requirement of limit.
15.247(e)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.247(d) 15.209(a)	● Spurious Emissions ● Conducted Measurement ● Radiated Emissions	Pass	Meet the requirement of limit.
15.207(a)	Power line Conducted Emissions	Pass	Meet the requirement of limit.

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
2. The information of measurement uncertainty is available upon the customer's request.



3 EUT DESCRIPTION

Product	MEHOME CAR CAMERA
Model Number	MC2, MC1, MC2PRO, MC3, MC3PRO, ME1, ME1PRO, ME2, ME2PRO, ME3, ME3PRO, MD1, MD1RRO, MD2, MD2PRO, MD3, MD3PRO, MC4, MC4PRO, MC5, MC5PRO, MC6, MC6PRO, MC7, MC8, MD4, MD5, MD6, MT1, MT2, MT3, MK1, MK2, MK3, MR1, MR2, MR3, MA1, MA2, MA3
Brand	MEHOME
Model Discrepancy	All models are identical to each other except their model name.
Identify Number	C160127Z03-RP1
Power Supply	DC5V supplied by notebook
Transmit Power	IEEE 802.11b mode: 3.10dBm IEEE 802.11g mode: 7.90dBm IEEE 802.11n HT20 MHz mode: 8.50dBm IEEE 802.11n HT40 MHz mode: 7.10dBm
Modulation Technique	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate	IEEE 802.11b: 11Mbps(CCK) with fall back rates of 5.5/2/1Mbps IEEE 802.11g: 54Mbps with fall back rates of 48/36/24/18/12/9 /6Mbps IEEE 802.11n HT20: 130Mbps with fall back rates of 130/117/104/ 78/52/39/26/6.5Mbps IEEE 802.11n HT40: 270Mbps with fall back rates of 270/243/216/ 162/108/81/54/13.5Mbps
Number of Channels	IEEE 802.11b mode: 11 Channels IEEE 802.11g mode: 11 Channels IEEE 802.11n HT20 MHz mode: 11 Channels IEEE 802.11n HT40 MHz mode: 7 Channels
Antenna Specification	PCB Antenna with 3.0dBi gain (Max)
Channels Spacing	IEEE 802.11b/g ,802.11n HT20/HT40 : 5MHz
Temperature Range	0°C ~ +40°C
Hardware Version	MH-MC1
Software Version	0.0.2.4

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. This submittal(s) (test report) is intended for FCC ID: 2AHKC-MEHOMEMC2 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: REC Mode 2: Photo	Mode 1
Radiated Emission	Mode 1: TX	Mode 1

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only, and power line conducted emission below 30MHz, which worst case was in normal link mode.

IEEE802.11b mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE802.11g mode: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20 MHz mode: Channel Low (2412MHz), Channel Mid(2437MHz) and Channel High (2462MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11n HT40 MHz mode: Channel Low (2422MHz), Channel Mid (2437MHz) and Channel High (2452MHz) with 13.5Mbps data rate were chosen for full testing.



5 SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	Notebook	E335	R9-WN1EF	DoC	Thinkpad	Unshielded 0.50m	Shielded 1.80m
2	TF Card	N/A	N/A	DoC	Kingston	N/A	N/A

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.



6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at
**No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town,
Baoan District, Shenzhen, China**

The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2. ACCREDITATIONS

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

USA	A2LA
China	CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA	FCC
Japan	VCCI(C-4815,R-4320,T-2317, G-10624)
Canada	INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccssz.com>

6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site : 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Conducted Emissions	+/-3.6836dB
Band Width	178kHz
Peak Output Power MU	+/-1.906dB
Band Edge MU	+/-0.182dB
Channel Separation MU	416.178Hz
Duty Cycle MU	0.054ms
Frequency Stability MU	226Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.



7 FCC PART 15.247 REQUIREMENTS

7.1. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

7.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

7.1.2. TEST INSTRUMENTS

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/21/2017
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	02/21/2016	02/21/2017
LISN	EMCO	3825/2	8901-1459	02/21/2016	02/21/2017
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	02/21/2016	02/21/2017
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

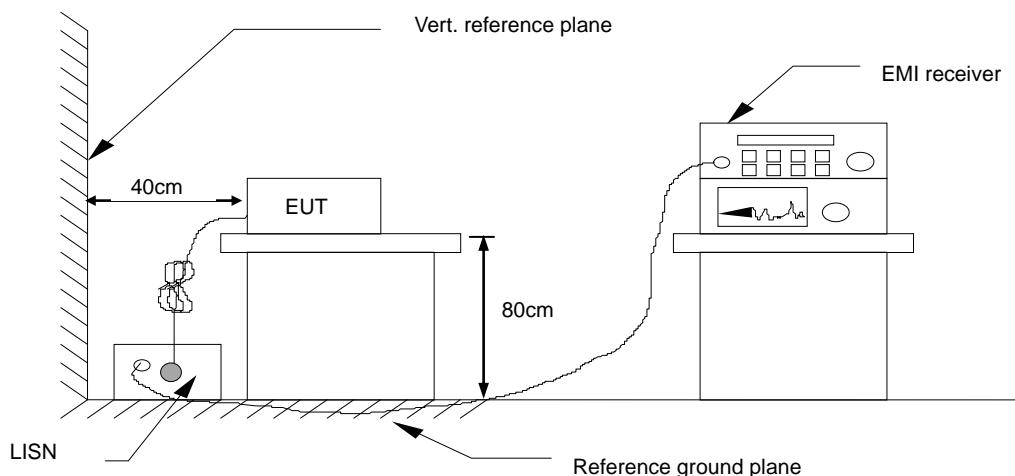
2. N.C.R = No Calibration Request.



7.1.3. TEST PROCEDURES (please refer to measurement standard)

- The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

7.1.4. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.1.5. DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Reading/ Average Reading + Factor

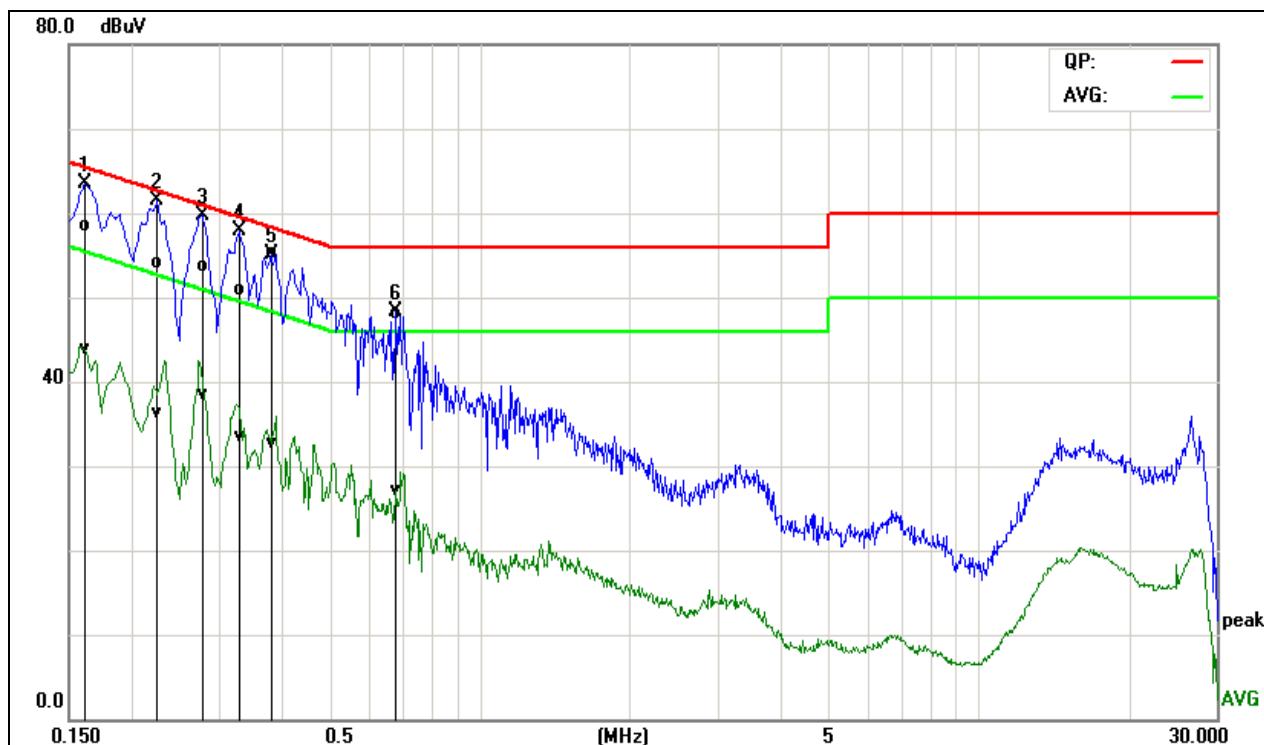
Limit = Limit stated in standard

Margin = Result (dBuV) – Limit (dBuV)



7.1.6. TEST RESULTS

Model No.	MC2	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Allen Xu	Line	L1
Test Date	2016/02/22		



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark
0.1620	48.90	34.24	9.60	58.50	43.84	65.36	55.36	-6.86	-11.52	Pass
0.2229	44.45	26.54	9.69	54.14	36.23	62.71	52.71	-8.57	-16.48	Pass
0.2742	44.06	28.74	9.69	53.75	38.43	60.99	50.99	-7.24	-12.56	Pass
0.3276	41.28	23.88	9.69	50.97	33.57	59.51	49.51	-8.54	-15.94	Pass
0.3820	45.53	23.03	9.68	55.21	32.71	58.23	48.24	-3.02	-15.53	Pass
0.6820	38.39	17.33	9.78	48.17	27.11	56.00	46.00	-7.83	-18.89	Pass

REMARKS: L1 = Line One (Live Line)



Model No.	MC2	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Allen Xu	Line	L2
Test Date	2016/02/22		



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark
0.1660	51.09	29.68	9.61	60.70	39.29	65.15	55.16	-4.45	-15.87	Pass
0.2260	49.66	29.51	9.69	59.35	39.20	62.59	52.60	-3.24	-13.40	Pass
0.2779	46.88	28.86	9.69	56.57	38.55	60.88	50.88	-4.31	-12.33	Pass
0.3300	45.31	23.48	9.69	55.00	33.17	59.45	49.45	-4.45	-16.28	Pass
0.3780	44.09	21.90	9.68	53.77	31.58	58.32	48.32	-4.55	-16.74	Pass
0.6100	35.66	17.00	9.74	45.40	26.74	56.00	46.00	-10.60	-19.26	Pass

REMARKS: L2 = Line Two (Neutral Line)



7.2. SPURIOUS EMISSIONS MEASUREMENT

7.2.1. CONDUCTED EMISSIONS MEASUREMENT

7.2.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

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 Section 15.205(c)).

7.2.1.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/21/2017

7.2.1.3. TEST PROCEDURE (please refer to measurement standard)

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

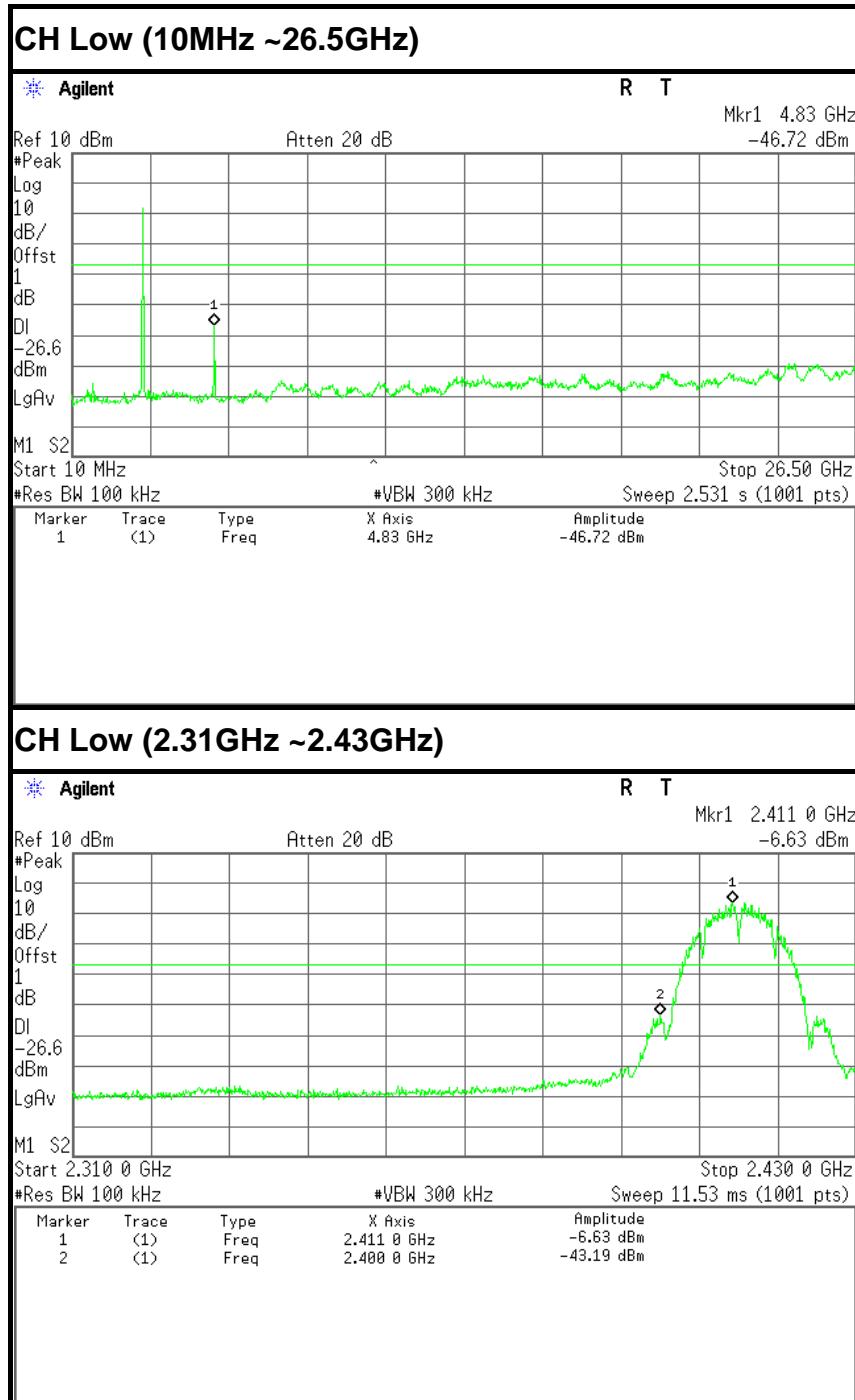
Measurements are made over the 10MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

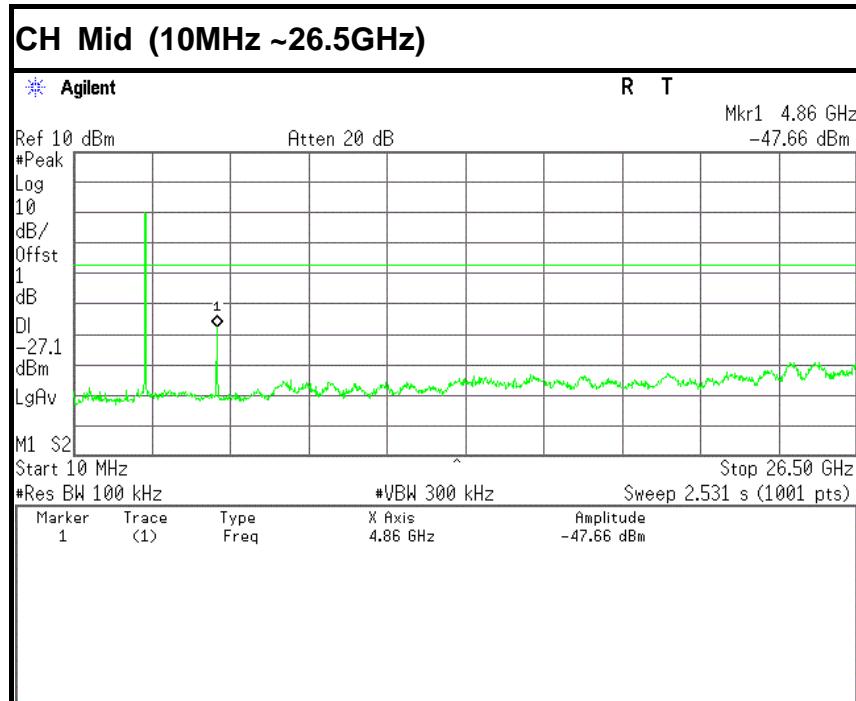


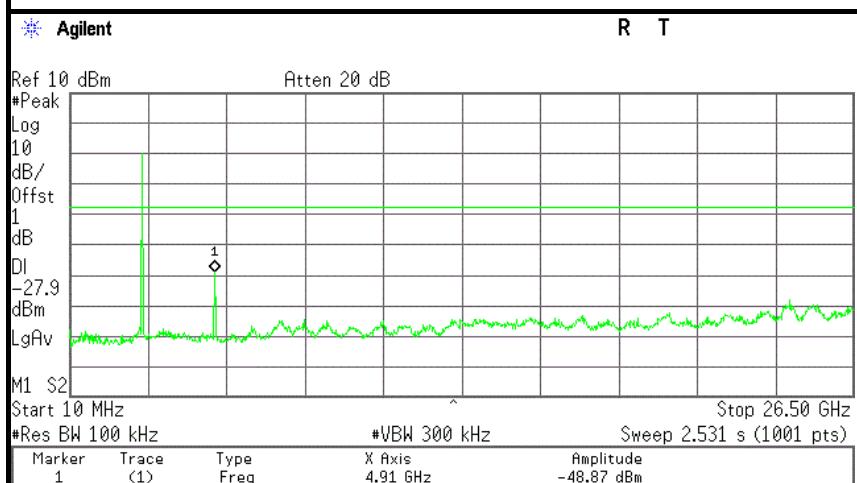
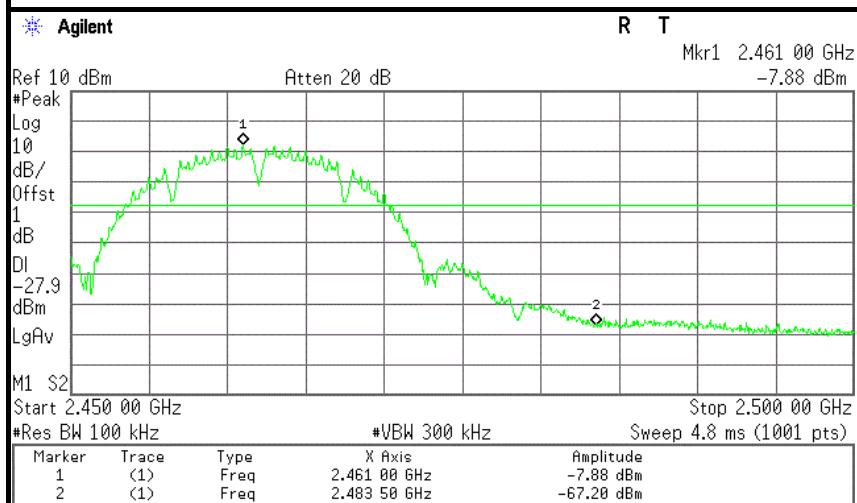
7.2.1.4. TEST RESULTS

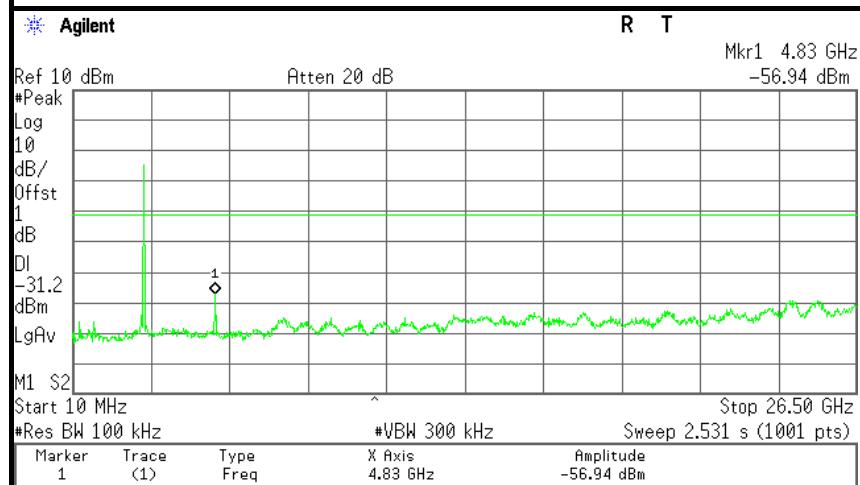
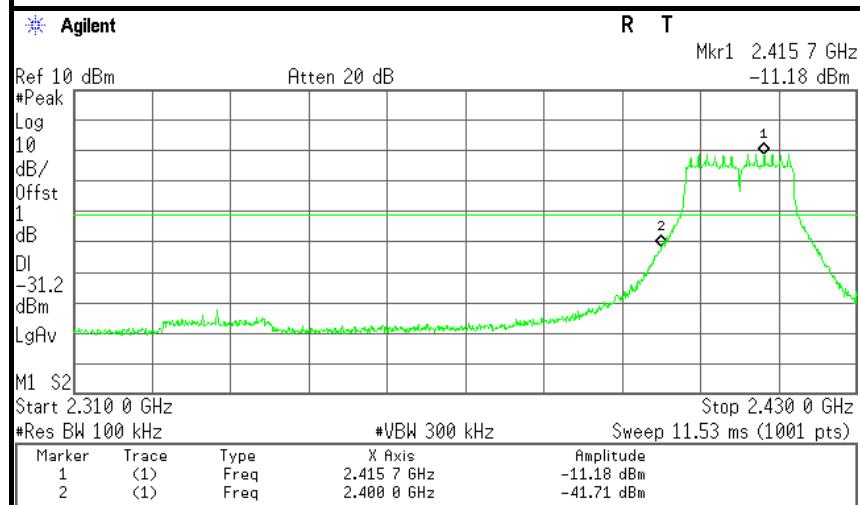
Test Plot

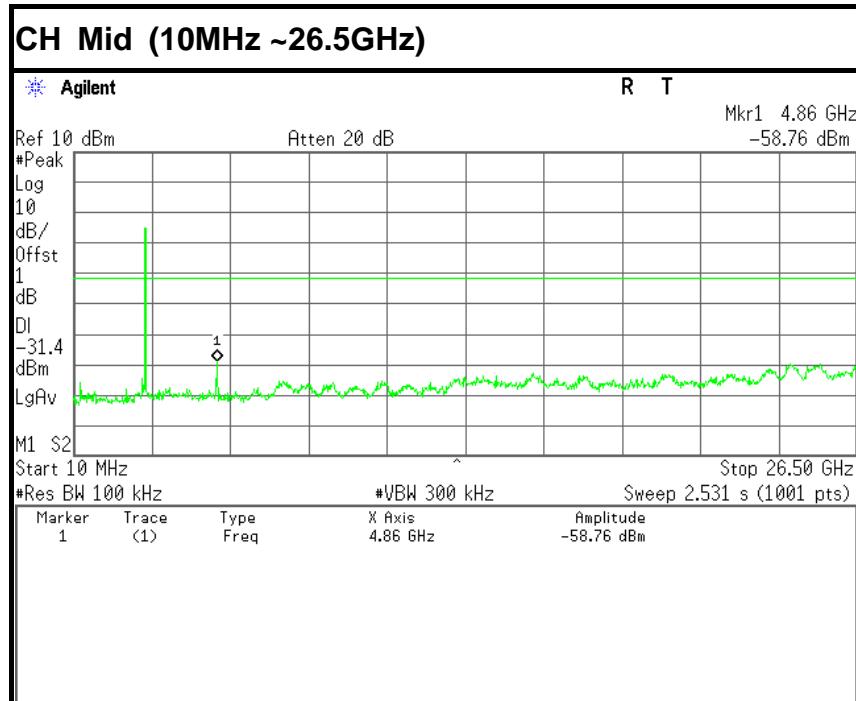
IEEE 802.11b mode

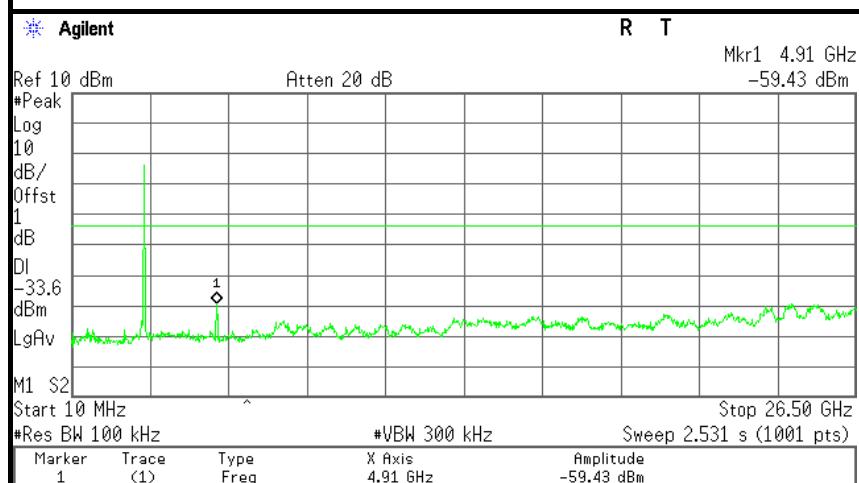
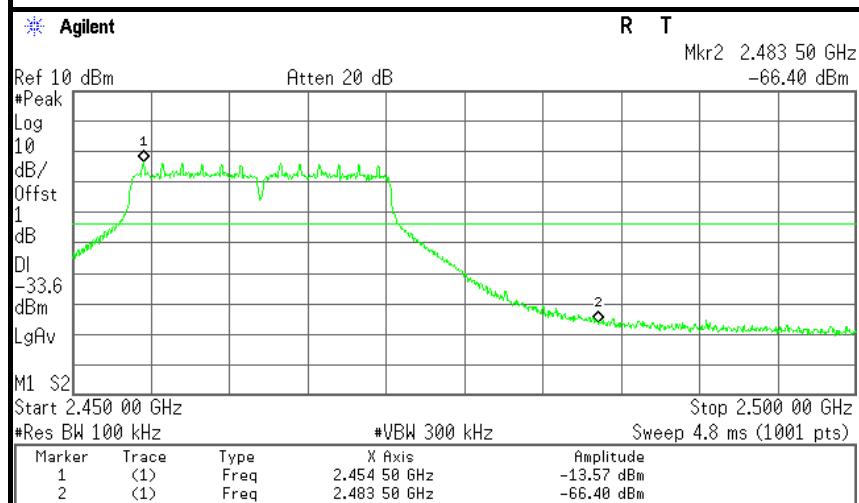


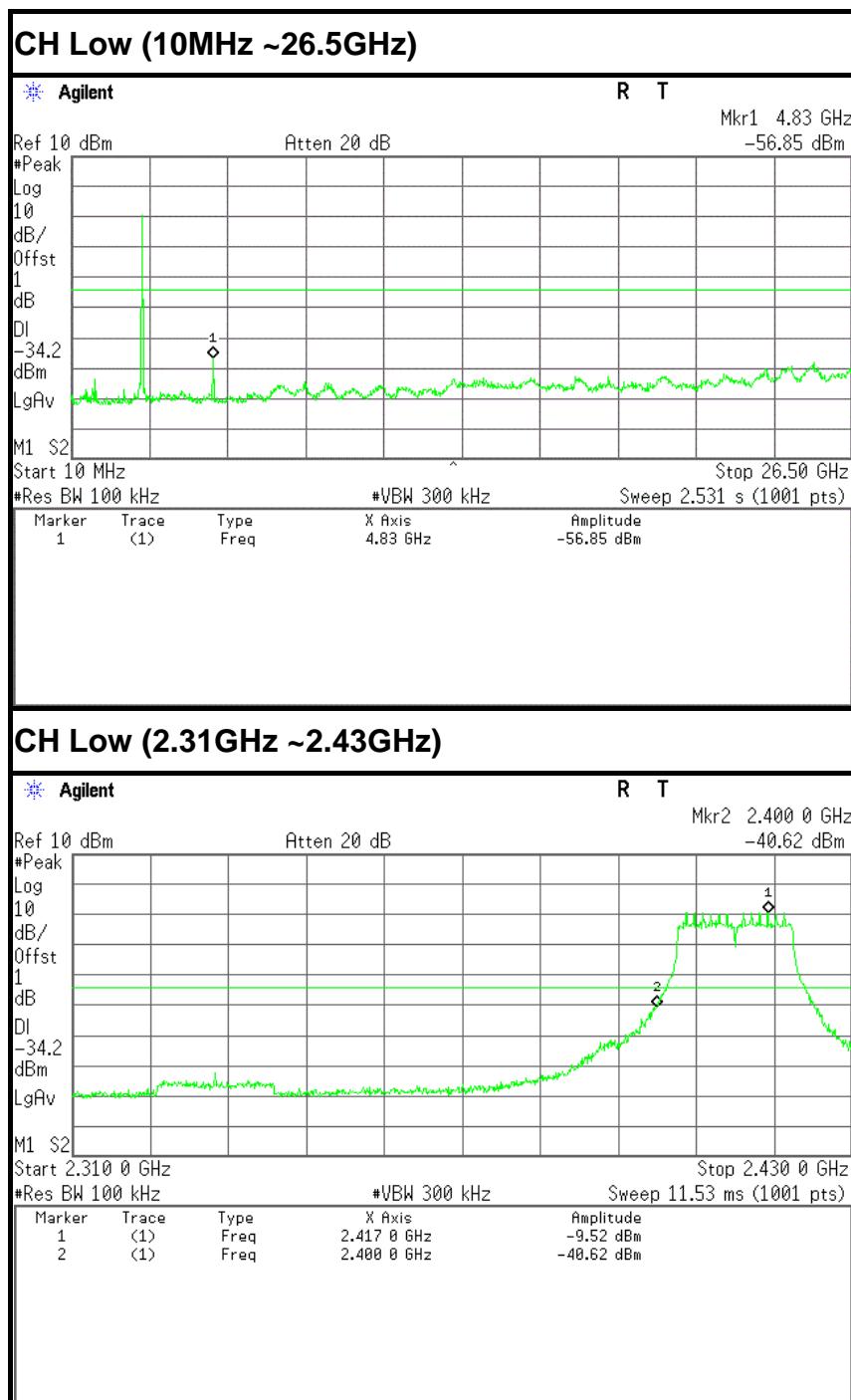


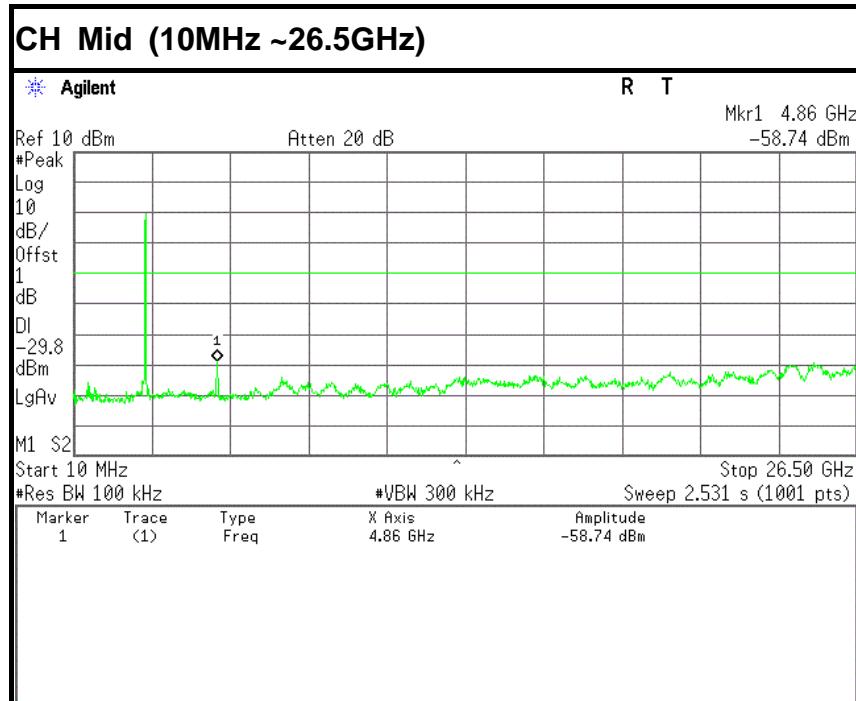
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

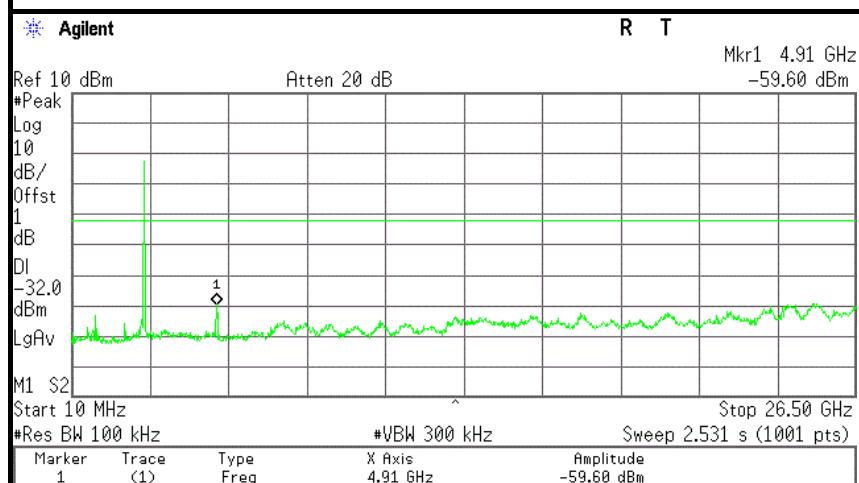
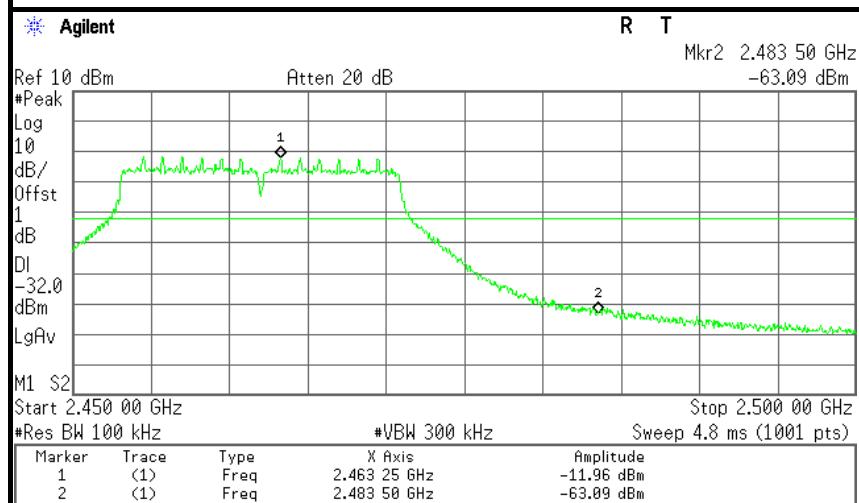
**IEEE 802.11g mode****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.43GHz)**

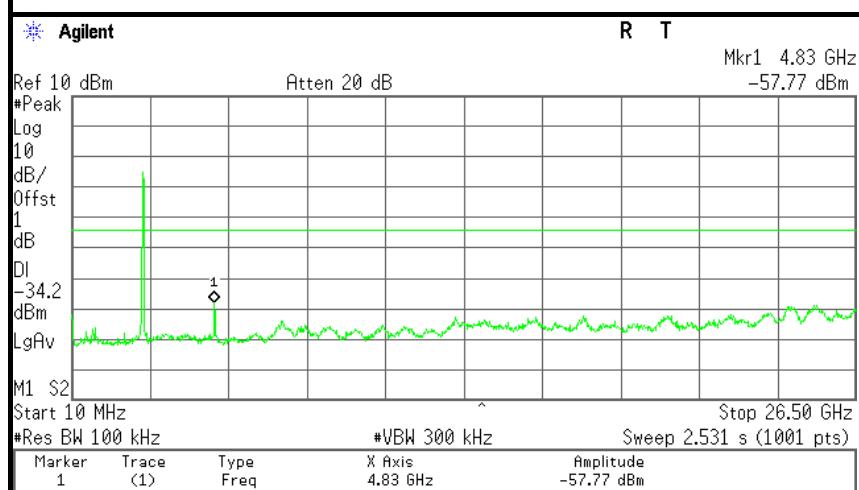
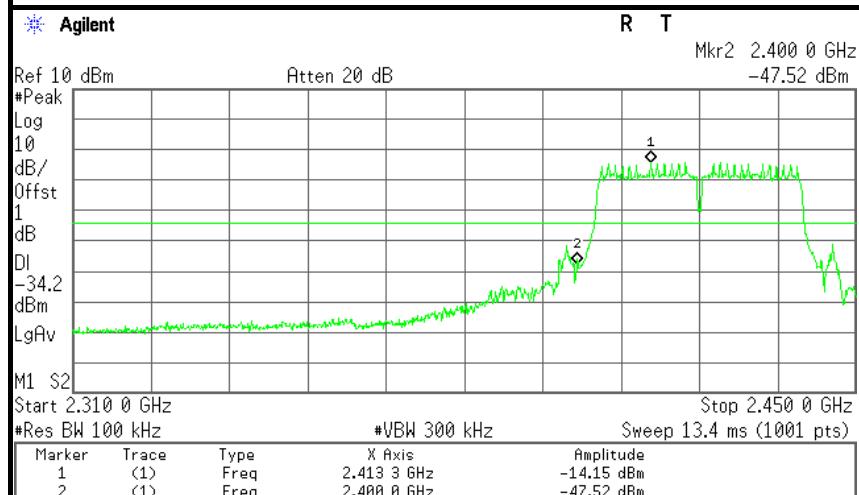


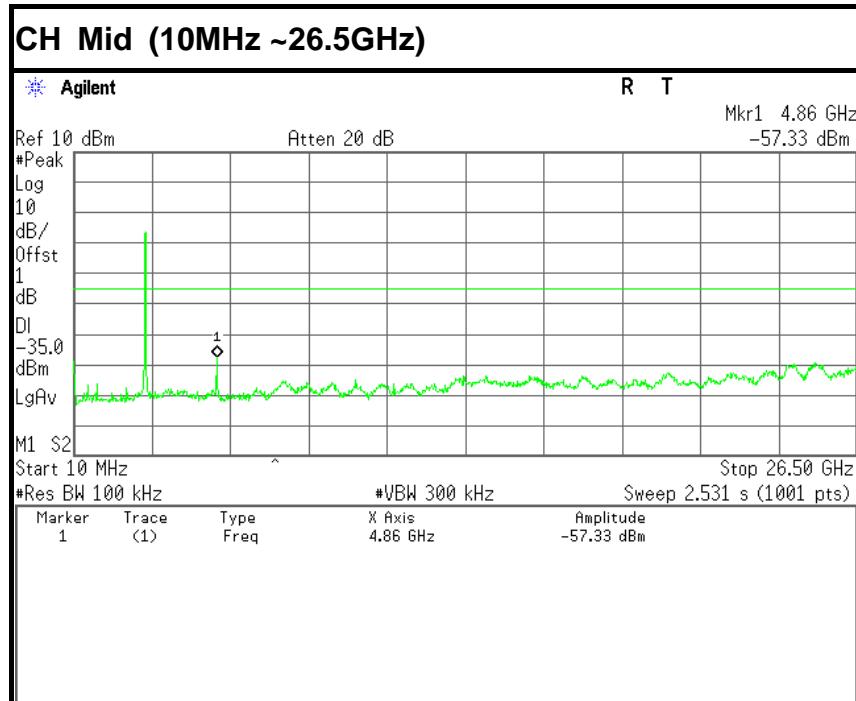
**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

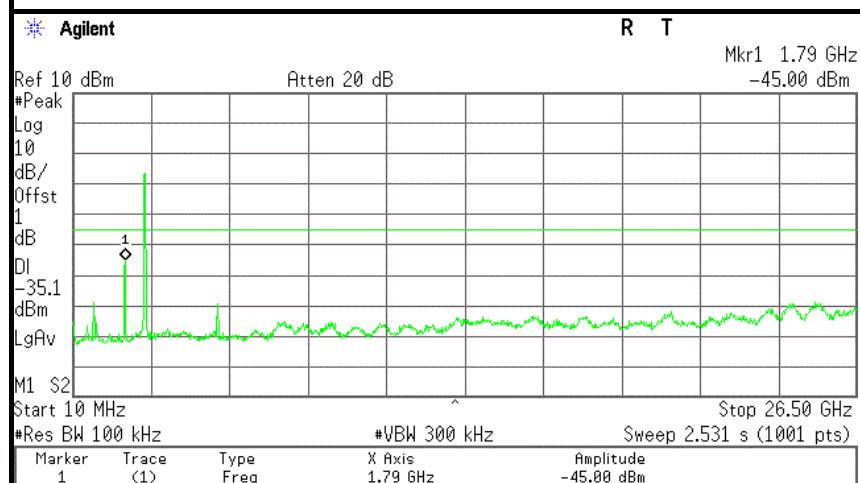
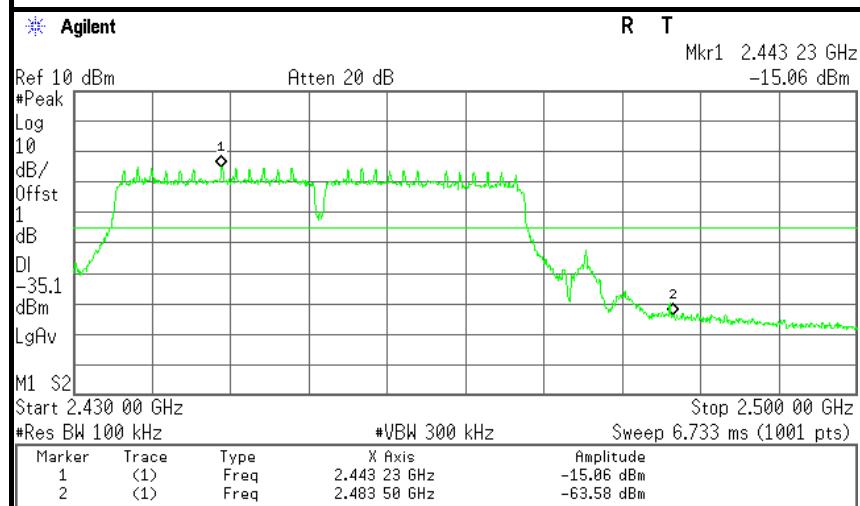
**IEEE 802.11n HT20 MHz mode**



**CH High (10MHz ~26.5GHz)****CH High (2.45GHz ~2.5GHz)**

**IEEE 802.11n HT40 MHz mode****CH Low (10MHz ~26.5GHz)****CH Low (2.31GHz ~2.45GHz)**



**CH High (10MHz ~26.5GHz)****CH High (2.43GHz ~2.5GHz)**



7.2.2. RADIATED EMISSIONS MEASUREMENT

7.2.2.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

1. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μ V/m at 3-meter)	Field Strength (dB μ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

NOTE:(1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dB μ V/m) = 20 log Emission level (μ V/m).



7.2.2.2. TEST INSTRUMENTS

Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/21/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/21/2017
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2016
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/21/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/21/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/21/2017
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The FCC Site Registration number is 101879.
3. N.C.R = No Calibration Required.



7.2.2.3. TEST PROCEDURE (please refer to measurement standard)

1. The EUT is placed on a turntable, which is 0.8m or 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=1MHz,VBW=3MHz / Sweep=AUTO

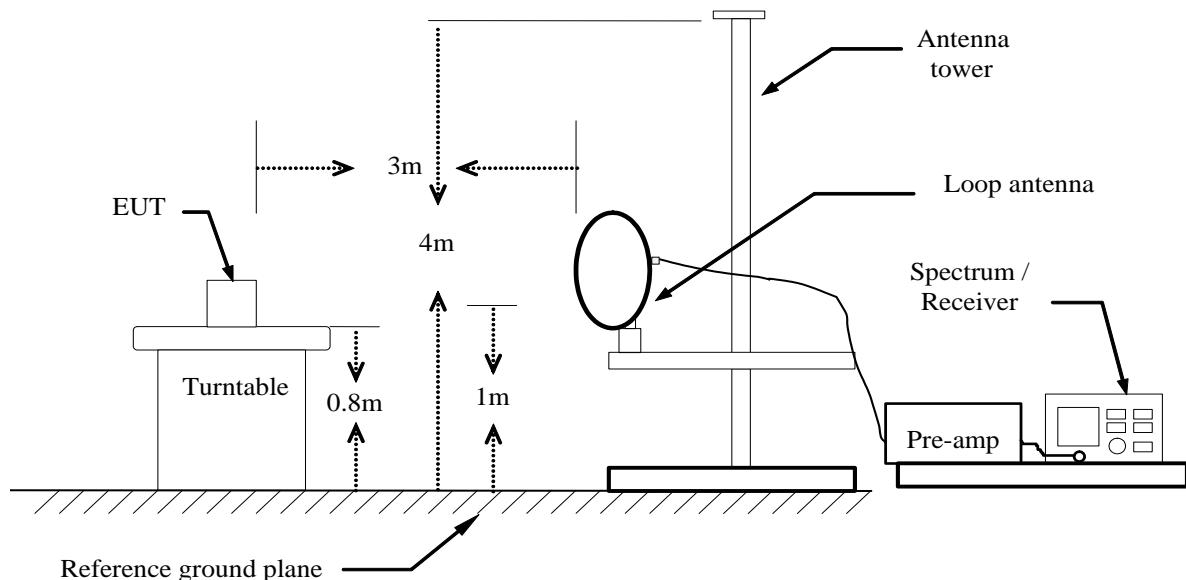
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=Peak

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

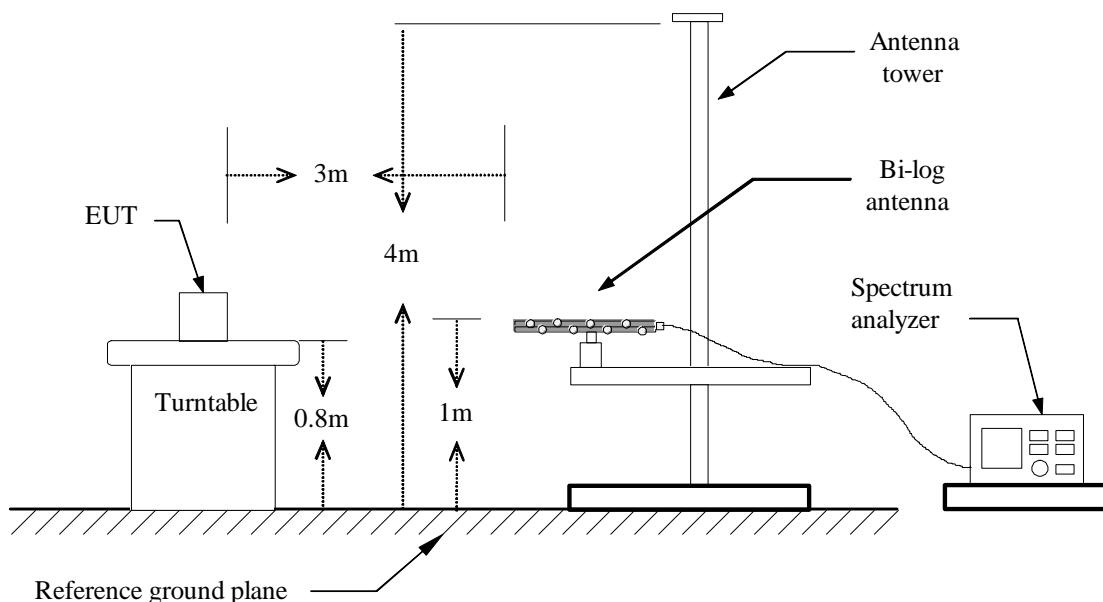


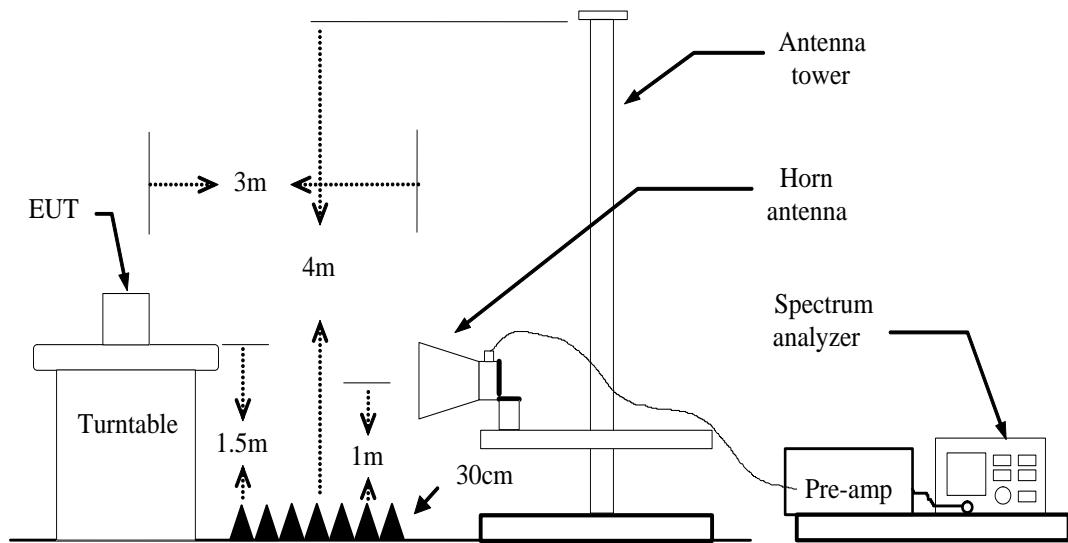
7.2.2.4. TEST SETUP

Below 30MHz



Below 1 GHz



Above 1 GHz

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



7.2.2.5. DATA SAMPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Peak = Peak Reading
AVG = Average Reading

Calculation Formula

$$\text{Margin (dB)} = \text{Result (dBuV/m)} - \text{Limits (dBuV/m)}$$

$$\text{Result (dBuV/m)} = \text{Reading (dBuV)} + \text{Correction Factor}$$



7.2.2.6. TEST RESULTS

Below 1 GHz

Test Mode: TX

Tested by: Jack Chen

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** January 28, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
250.1900	54.14	-21.06	33.08	46.00	-12.92	V	QP
312.2700	51.78	-19.12	32.66	46.00	-13.34	V	QP
399.5700	54.35	-16.10	38.25	46.00	-7.75	V	QP
500.4500	51.07	-14.35	36.72	46.00	-9.28	V	QP
675.0500	40.52	-12.28	28.24	46.00	-17.76	V	QP
799.2100	41.08	-11.12	29.96	46.00	-16.04	V	QP
147.3700	54.63	-21.63	33.00	43.50	-10.50	H	QP
250.1900	61.32	-21.06	40.26	46.00	-5.74	H	QP
399.5700	54.51	-16.10	38.41	46.00	-7.59	H	QP
413.1500	47.61	-15.55	32.06	46.00	-13.94	H	QP
515.0000	46.43	-14.19	32.24	46.00	-13.76	H	QP
798.2400	38.53	-11.13	27.40	46.00	-18.60	H	QP

****Remark:** No emission found between lowest internal used/generated frequency to 30MHz.

Notes:

1. Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
 2. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
 3. The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.
 4. Frequency (MHz). = Emission frequency in MHz
 Reading ($\text{dB}\mu\text{V/m}$) = Receiver reading
 Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
 Limit ($\text{dB}\mu\text{V/m}$) = Limit stated in standard
 Margin (dB) = Measured ($\text{dB}\mu\text{V/m}$) – Limits ($\text{dB}\mu\text{V/m}$)
 Antenna Pol e(H/V) = Current carrying line of reading

**Above 1 GHz****Test Mode:** TX / IEEE 802.11b(CH Low)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
4042.000	40.63	1.74	42.37	74.00	-31.63	V	peak
4825.000	46.77	4.41	51.18	74.00	-22.82	V	peak
5914.000	39.46	6.04	45.50	74.00	-28.50	V	peak
6490.000	39.61	6.87	46.48	74.00	-27.52	V	peak
7723.000	39.61	9.11	48.72	74.00	-25.28	V	peak
7993.000	39.74	9.64	49.38	74.00	-24.62	V	peak
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3772.000	41.49	0.63	42.12	74.00	-31.88	H	Peak
4825.000	49.67	4.41	54.08	74.00	-19.92	H	Peak
4825.000	47.82	4.41	52.23	54.00	-1.77	H	AVG
5833.000	39.61	6.01	45.62	74.00	-28.38	H	Peak
6832.000	39.38	7.43	46.81	74.00	-27.19	H	peak
7723.000	39.82	9.11	48.93	74.00	-25.07	H	peak
8236.000	40.43	9.52	49.95	74.00	-24.05	H	peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11b (CH Mid)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
4141.000	40.62	2.09	42.71	74.00	-31.29	V	Peak
4870.000	47.57	4.56	52.13	74.00	-21.87	V	Peak
6139.000	39.79	6.31	46.10	74.00	-27.90	V	Peak
6958.000	39.58	7.63	47.21	74.00	-26.79	V	Peak
7480.000	41.07	8.64	49.71	74.00	-24.29	V	Peak
8326.000	40.18	9.47	49.65	74.00	-24.35	V	Peak
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4420.000	39.89	3.07	42.96	74.00	-31.04	H	Peak
4870.000	49.17	4.56	53.73	74.00	-20.27	H	Peak
4870.000	47.30	4.56	51.86	54.00	-2.14	H	AVG
5482.000	39.01	5.84	44.85	74.00	-29.15	H	Peak
6400.000	39.44	6.73	46.17	74.00	-27.83	H	Peak
7552.000	39.51	8.78	48.29	74.00	-25.71	H	Peak
8326.000	40.90	9.47	50.37	74.00	-23.63	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11b (CH High)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3331.000	43.60	-0.80	42.80	74.00	-31.20	V	Peak
4924.000	47.21	4.73	51.94	74.00	-22.06	V	Peak
5968.000	39.88	6.07	45.95	74.00	-28.05	V	Peak
6814.000	39.16	7.40	46.56	74.00	-27.44	V	Peak
7543.000	40.38	8.76	49.14	74.00	-24.86	V	Peak
7948.000	39.45	9.55	49.00	74.00	-25.00	V	Peak
3268.000	42.71	-0.91	41.80	74.00	-32.20	H	Peak
4924.000	48.14	4.73	52.87	74.00	-21.13	H	Peak
4924.000	46.47	4.73	51.20	54.00	-2.80	H	AVG
5851.000	40.69	6.02	46.71	74.00	-27.29	H	Peak
6931.000	40.52	7.59	48.11	74.00	-25.89	H	Peak
8074.000	39.67	9.61	49.28	74.00	-24.72	H	Peak
8821.000	40.43	9.20	49.63	74.00	-24.37	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11g(CH Low)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
4249.000	41.59	2.47	44.06	74.00	-29.94	V	Peak
4825.000	45.35	4.41	49.76	74.00	-24.24	V	Peak
6472.000	39.47	6.84	46.31	74.00	-27.69	V	Peak
7201.000	39.78	8.09	47.87	74.00	-26.13	V	Peak
7903.000	39.39	9.46	48.85	74.00	-25.15	V	Peak
8326.000	39.89	9.47	49.36	74.00	-24.64	V	Peak
<hr/>							
4825.000	43.54	4.41	47.95	74.00	-26.05	H	Peak
5374.000	39.97	5.65	45.62	74.00	-28.38	H	Peak
6121.000	39.75	6.28	46.03	74.00	-27.97	H	Peak
6958.000	39.94	7.63	47.57	74.00	-26.43	H	Peak
7921.000	40.48	9.50	49.98	74.00	-24.02	H	Peak
8335.000	40.25	9.47	49.72	74.00	-24.28	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11g (CH Mid)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH**Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3898.000	41.04	1.16	42.20	74.00	-31.80	V	Peak
4870.000	45.86	4.56	50.42	74.00	-23.58	V	Peak
5320.000	40.29	5.55	45.84	74.00	-28.16	V	Peak
6859.000	40.14	7.47	47.61	74.00	-26.39	V	Peak
7480.000	40.04	8.64	48.68	74.00	-25.32	V	Peak
7912.000	40.25	9.48	49.73	74.00	-24.27	V	Peak
3889.000	41.72	1.12	42.84	74.00	-31.16	H	Peak
4870.000	43.20	4.56	47.76	74.00	-26.24	H	Peak
5680.000	40.34	5.95	46.29	74.00	-27.71	H	Peak
6526.000	39.89	6.93	46.82	74.00	-27.18	H	Peak
7768.000	39.92	9.20	49.12	74.00	-24.88	H	Peak
8164.000	39.33	9.56	48.89	74.00	-25.11	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11g (CH High)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3331.000	43.34	-0.80	42.54	74.00	-31.46	V	Peak
4924.000	42.03	4.73	46.76	74.00	-27.24	V	Peak
5887.000	39.99	6.03	46.02	74.00	-27.98	V	Peak
6724.000	40.61	7.25	47.86	74.00	-26.14	V	Peak
7966.000	39.71	9.58	49.29	74.00	-24.71	V	Peak
8290.000	39.62	9.49	49.11	74.00	-24.89	V	Peak
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4006.000	42.01	1.61	43.62	74.00	-30.38	H	Peak
4924.000	41.78	4.73	46.51	74.00	-27.49	H	Peak
5905.000	40.35	6.04	46.39	74.00	-27.61	H	Peak
6886.000	40.38	7.52	47.90	74.00	-26.10	H	Peak
7750.000	40.94	9.16	50.10	74.00	-23.90	H	Peak
8587.000	40.82	9.33	50.15	74.00	-23.85	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT20 MHz (CH Low)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
4825.000	47.78	4.41	52.19	74.00	-21.81	V	Peak
5203.000	41.96	5.34	47.30	74.00	-26.70	V	Peak
6274.000	39.93	6.52	46.45	74.00	-27.55	V	Peak
6832.000	40.40	7.43	47.83	74.00	-26.17	V	Peak
7921.000	40.25	9.50	49.75	74.00	-24.25	V	Peak
8254.000	40.91	9.51	50.42	74.00	-23.58	V	Peak
3799.000	41.05	0.74	41.79	74.00	-32.21	H	Peak
4825.000	47.07	4.41	51.48	74.00	-22.52	H	Peak
5743.000	40.20	5.97	46.17	74.00	-27.83	H	Peak
6454.000	40.26	6.82	47.08	74.00	-26.92	H	Peak
6859.000	40.35	7.47	47.82	74.00	-26.18	H	Peak
7741.000	41.17	9.14	50.31	74.00	-23.69	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT20 MHz (CH Mid)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3286.000	43.50	-0.88	42.62	74.00	-31.38	V	Peak
4870.000	47.61	4.56	52.17	74.00	-21.83	V	Peak
5869.000	39.92	6.02	45.94	74.00	-28.06	V	Peak
6139.000	40.70	6.31	47.01	74.00	-26.99	V	Peak
7489.000	39.52	8.65	48.17	74.00	-25.83	V	Peak
8236.000	40.12	9.52	49.64	74.00	-24.36	V	Peak
3799.000	39.90	0.74	40.64	74.00	-33.36	H	Peak
4870.000	47.22	4.56	51.78	74.00	-22.22	H	Peak
5716.000	40.04	5.96	46.00	74.00	-28.00	H	Peak
6553.000	40.47	6.98	47.45	74.00	-26.55	H	Peak
7948.000	39.38	9.55	48.93	74.00	-25.07	H	Peak
8362.000	40.11	9.45	49.56	74.00	-24.44	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / EEE 802.11n HT20 MHz (CH High)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
4357.000	40.59	2.85	43.44	74.00	-30.56	V	Peak
4924.000	44.12	4.73	48.85	74.00	-25.15	V	Peak
6922.000	39.70	7.57	47.27	74.00	-26.73	V	Peak
7201.000	39.54	8.09	47.63	74.00	-26.37	V	Peak
7570.000	40.93	8.81	49.74	74.00	-24.26	V	Peak
8659.000	40.19	9.29	49.48	74.00	-24.52	V	Peak
3322.000	41.95	-0.82	41.13	74.00	-32.87	H	Peak
4105.000	40.96	1.96	42.92	74.00	-31.08	H	Peak
4924.000	42.73	4.73	47.46	74.00	-26.54	H	Peak
6463.000	39.52	6.83	46.35	74.00	-27.65	H	Peak
7768.000	40.07	9.20	49.27	74.00	-24.73	H	Peak
9352.000	40.45	10.11	50.56	74.00	-23.44	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX/ IEEE 802.11n HT40 MHz (CH Low)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3412.000	43.22	-0.67	42.55	74.00	-31.45	V	Peak
3790.000	42.04	0.70	42.74	74.00	-31.26	V	Peak
4843.000	42.43	4.47	46.90	74.00	-27.10	V	Peak
6418.000	40.15	6.76	46.91	74.00	-27.09	V	Peak
7435.000	38.90	8.55	47.45	74.00	-26.55	V	Peak
8191.000	39.89	9.54	49.43	74.00	-24.57	V	Peak
4051.000	42.23	1.77	44.00	74.00	-30.00	H	Peak
4906.000	41.84	4.67	46.51	74.00	-27.49	H	Peak
5491.000	40.26	5.85	46.11	74.00	-27.89	H	Peak
6301.000	40.34	6.57	46.91	74.00	-27.09	H	Peak
7723.000	40.61	9.11	49.72	74.00	-24.28	H	Peak
8722.000	38.65	9.25	47.90	74.00	-26.10	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT40 MHz (CH Mid)**Tested by:** Jack Chen**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
4069.000	41.39	1.83	43.22	74.00	-30.78	V	Peak
4870.000	42.61	4.56	47.17	74.00	-26.83	V	Peak
5680.000	40.32	5.95	46.27	74.00	-27.73	V	Peak
6823.000	40.38	7.41	47.79	74.00	-26.21	V	Peak
7732.000	39.93	9.13	49.06	74.00	-24.94	V	Peak
8542.000	40.44	9.35	49.79	74.00	-24.21	V	Peak
3169.000	42.67	-1.08	41.59	74.00	-32.41	H	Peak
4141.000	42.35	2.09	44.44	74.00	-29.56	H	Peak
4870.000	42.48	4.56	47.04	74.00	-26.96	H	Peak
5806.000	40.32	6.00	46.32	74.00	-27.68	H	Peak
6796.000	39.65	7.37	47.02	74.00	-26.98	H	Peak
7750.000	39.95	9.16	49.11	74.00	-24.89	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX/ IEEE 802.11n HT40 MHz (CH High)**Tested by:** Jack Chen**Ambient temperature:** 24°C **Relative humidity:** 52% RH **Date:** February 17, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
4150.000	41.41	2.12	43.53	74.00	-30.47	V	Peak
4906.000	41.58	4.67	46.25	74.00	-27.75	V	Peak
5365.000	41.16	5.63	46.79	74.00	-27.21	V	Peak
5599.000	40.77	5.91	46.68	74.00	-27.32	V	Peak
6868.000	40.51	7.49	48.00	74.00	-26.00	V	Peak
7741.000	40.42	9.14	49.56	74.00	-24.44	V	Peak
4141.000	41.21	2.09	43.30	74.00	-30.70	H	Peak
4906.000	43.12	4.67	47.79	74.00	-26.21	H	Peak
5365.000	40.54	5.63	46.17	74.00	-27.83	H	Peak
5977.000	39.75	6.07	45.82	74.00	-28.18	H	Peak
6895.000	40.95	7.53	48.48	74.00	-25.52	H	Peak
7759.000	40.23	9.18	49.41	74.00	-24.59	H	Peak

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.3.2. TEST INSTRUMENTS

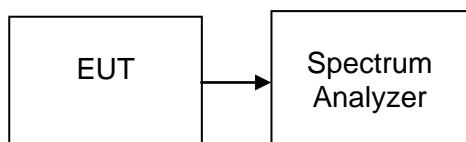
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/21/2017

7.3.3. TEST PROCEDURES (please refer to measurement standard)

8.1 Option 1:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ 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.

7.3.4. TEST SETUP





7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	10085	>500	PASS
Mid	2437	10089		PASS
High	2462	10076		PASS

Test mode: IEEE 802.11g

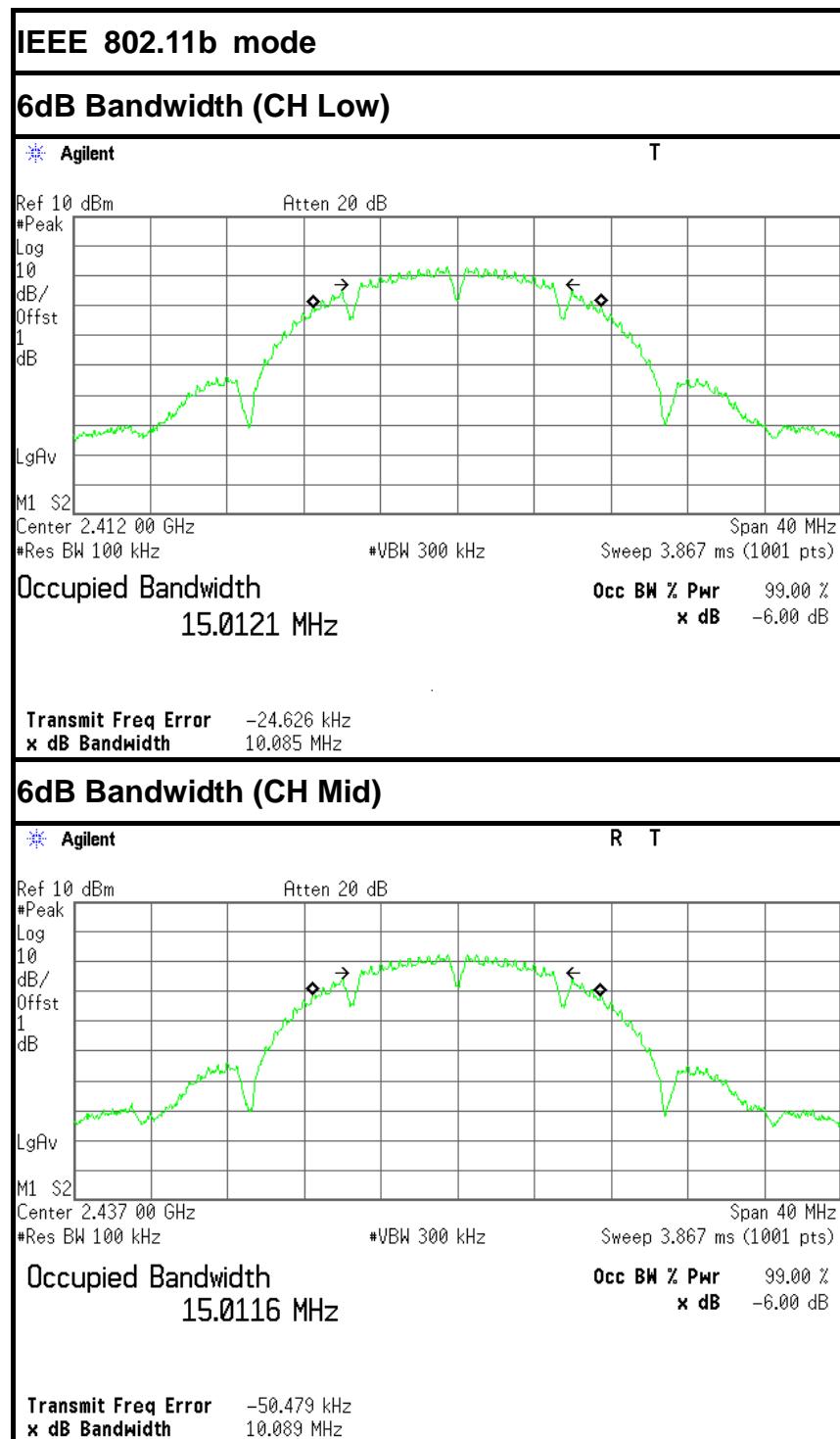
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	16619	>500	PASS
Mid	2437	16607		PASS
High	2462	16601		PASS

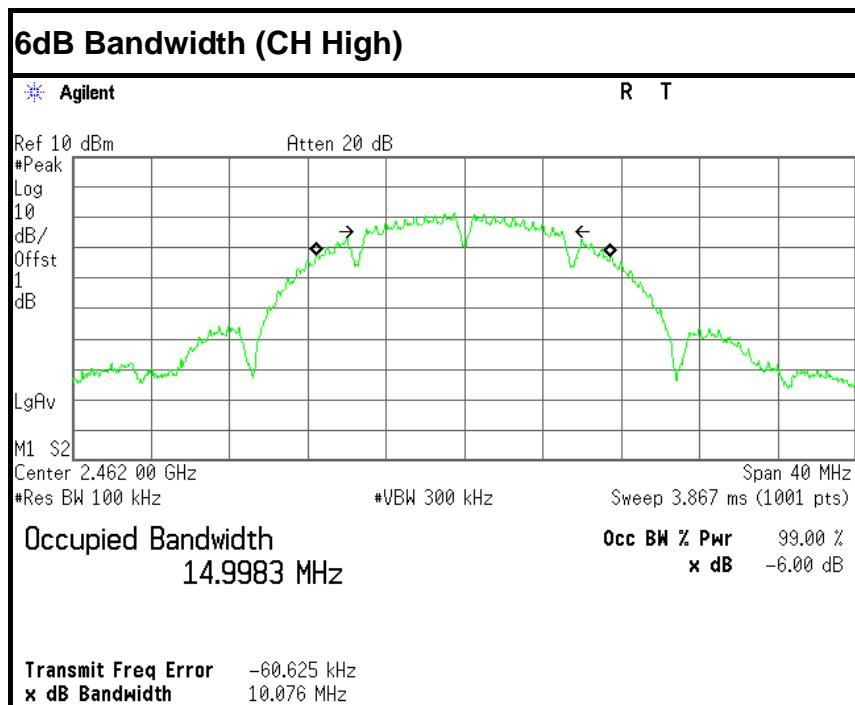
Test mode: IEEE 802.11n HT20 MHz

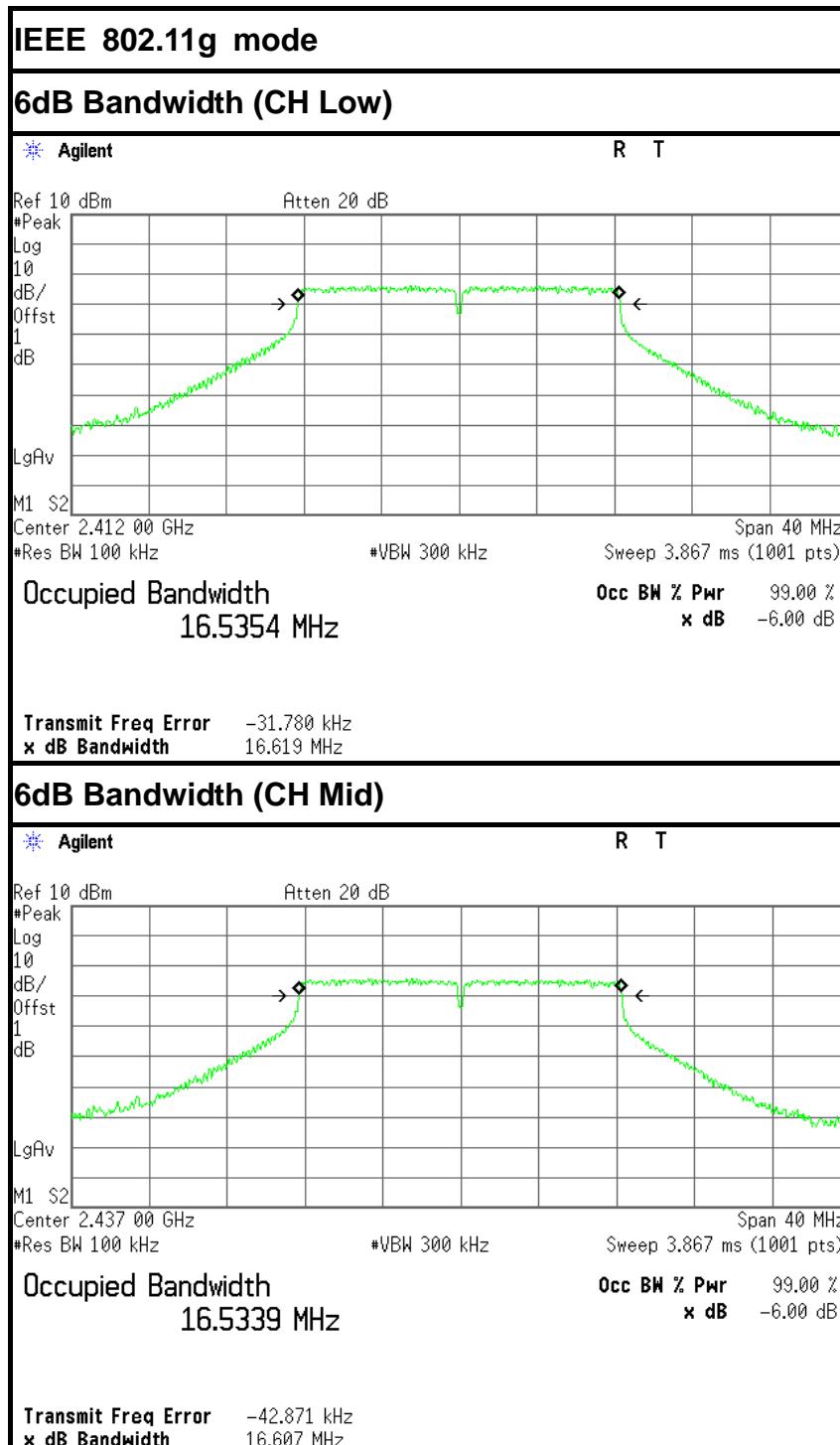
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	17842	>500	PASS
Mid	2437	17826		PASS
High	2462	17835		PASS

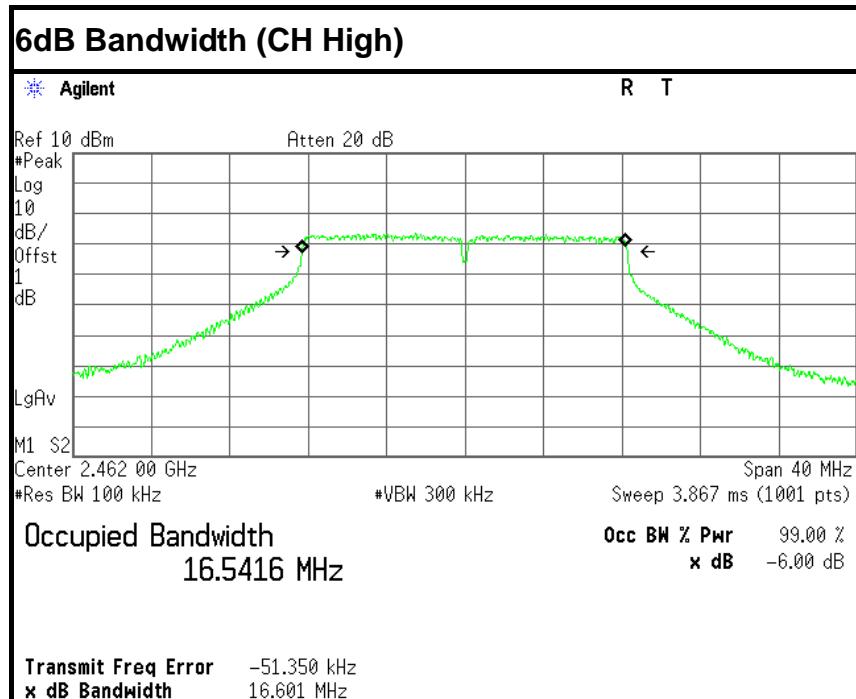
Test mode: IEEE 802.11n HT40 MHz

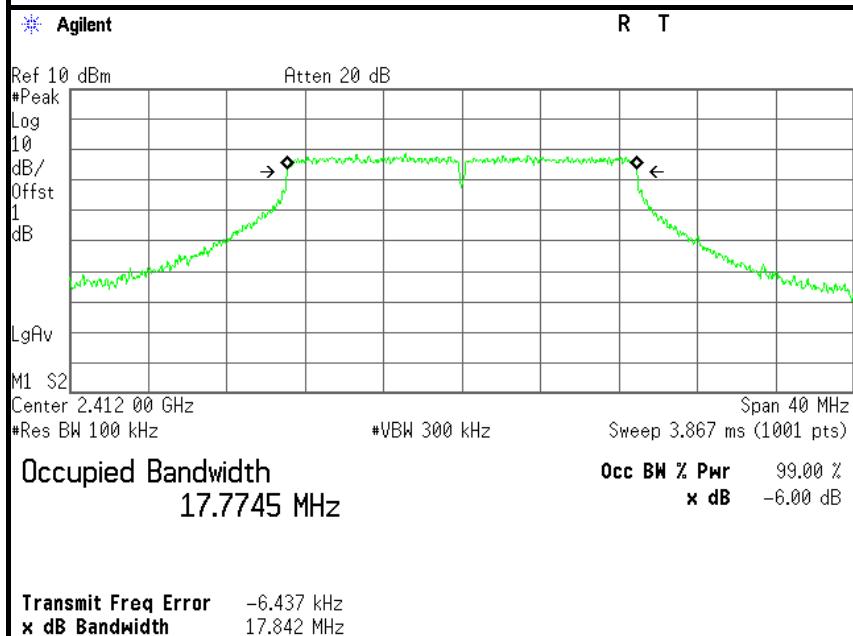
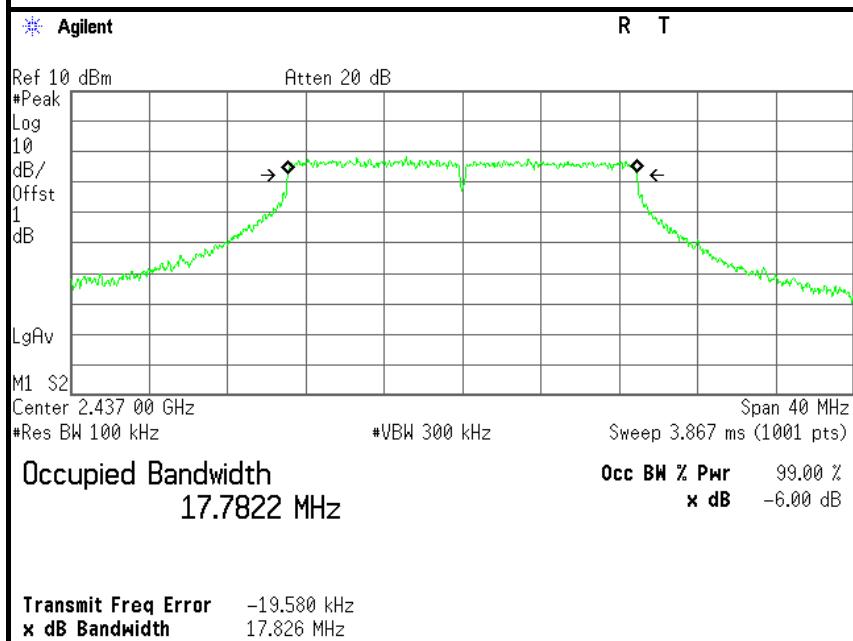
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	36465	>500	PASS
Mid	2437	36478		PASS
High	2452	36471		PASS

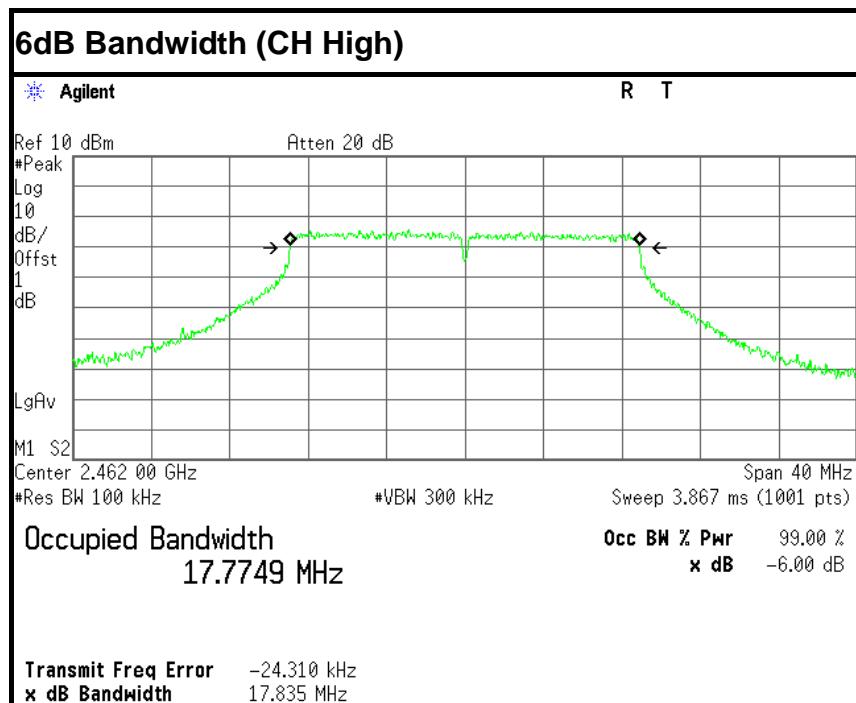
Test Plot

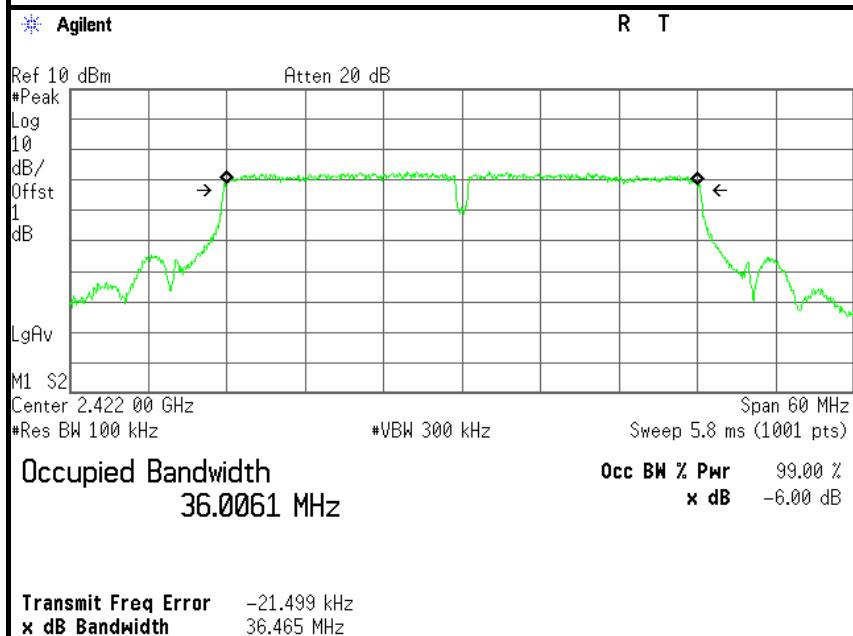
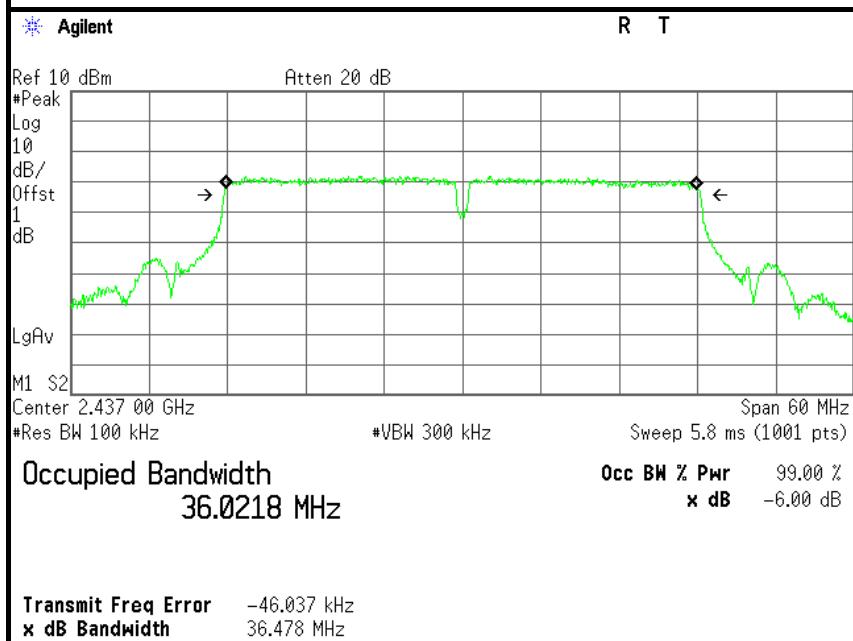


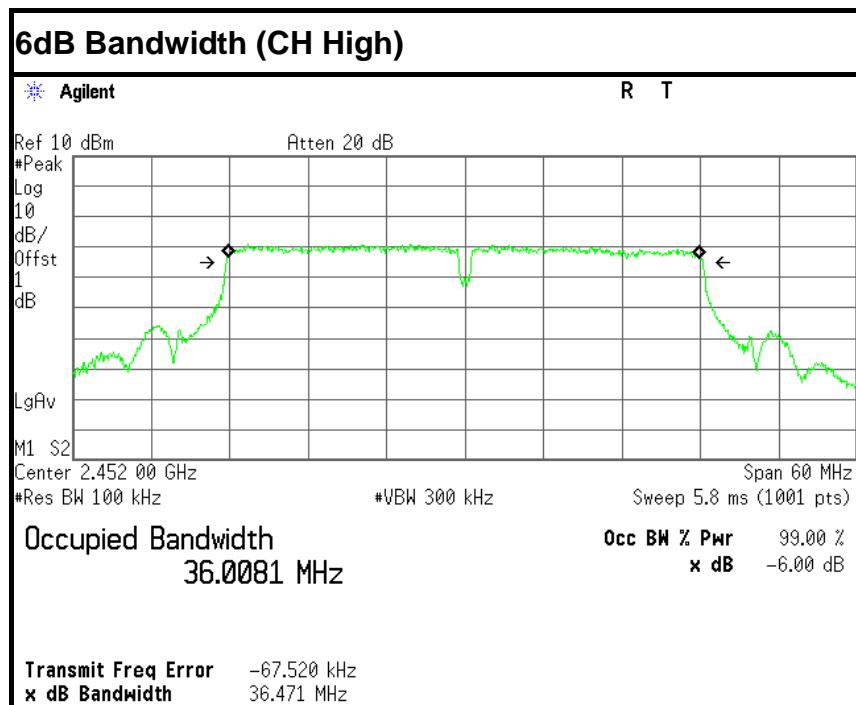




**IEEE 802.11n HT20 MHz mode****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**



**IEEE 802.11n HT40 MHz mode****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**





7.4. ANTENNA GAIN

MEASUREMENT

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For normal WLAN devices, the DSSS mode is used.

MEASUREMENT PARAMETERS

Measurement parameter	
Detector	Peak
Sweep time	Auto
Resolution bandwidth	3 MHz
Video bandwidth	3 MHz
Trace-Mode	Max hold

LIMITS

FCC	IC
Antenna Gain	
6 dBi	

TEST RESULTS

IEEE 802.11b mode

T _{nom}	V _{nom}	Lowest channel 2412MHz	Middle channel 2437MHz	Highest channel 2462MHz
Conducted power [dBm/MHz] Measured with DSSS modulation		2.90	3.10	1.60
Radiated power [dBm/MHz] Measured with DSSS modulation		5.85	5.56	4.44
Gain [dBi] Calculated		2.95	2.46	2.84
Measurement uncertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)			



7.5. PEAK OUTPUT POWER

7.5.1. LIMITS

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.5.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Power Meter	Anritsu	ML2495A	1204003	02/21/2016	02/21/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/21/2017

7.5.3. TEST PROCEDURES (please refer to measurement standard)

9.1.1 RBW \geq DTS bandwidth

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the *DTS bandwidth*.

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq 3 RBW.
- c) Set span \geq 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



9.1.2 Integrated band power method

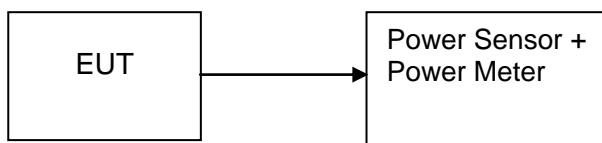
This procedure may be used when the maximum available RBW of the measurement instrument is less than the *DTS bandwidth*.

- a) Set the RBW = 1 MHz.
- b) Set the VBW \geq 3 RBW
- c) Set the span \geq 1.5 x DTS bandwidth.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

9.1.3 PKPM1 Peak power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

7.5.4. TEST SETUP





7.5.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak / AVG	Result
Low	2412	2.90	0.00195	1	Peak	PASS
Mid	2437	3.10	0.00204			PASS
High	2462	1.60	0.00145			PASS
Low	2412	0.80	0.00120	1	AVG	PASS
Mid	2437	1.10	0.00129			PASS
High	2462	-0.40	0.00091			PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak / AVG	Result
Low	2412	7.90	0.00617	1	Peak	PASS
Mid	2437	7.30	0.00537			PASS
High	2462	4.90	0.00309			PASS
Low	2412	-0.70	0.00085	1	AVG	PASS
Mid	2437	-1.20	0.00076			PASS
High	2462	-4.20	0.00038			PASS

Test mode: IEEE 802.11n HT20 MHz

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak / AVG	Result
Low	2412	8.50	0.00708	1	Peak	PASS
Mid	2437	7.60	0.00575			PASS
High	2462	6.90	0.00490			PASS
Low	2412	1.20	0.00132	1	AVG	PASS
Mid	2437	0.10	0.00102			PASS
High	2462	-2.00	0.00063			PASS

Test mode: IEEE 802.11n HT40 MHz

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak / AVG	Result
Low	2422	7.10	0.00513	1	Peak	PASS
Mid	2437	6.40	0.00437			PASS
High	2452	5.60	0.00363			PASS
Low	2422	-1.40	0.00072	1	AVG	PASS
Mid	2437	-2.20	0.00060			PASS
High	2452	-3.10	0.00049			PASS



7.6. BAND EDGES MEASUREMENT

7.6.1. LIMITS

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. 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 Section 15.205(c)).

7.6.2. TEST INSTRUMENTS

Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	Agilent	N9038A	US44300399	02/21/2016	02/21/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/21/2017
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2015	03/18/2016
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/21/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/21/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/21/2017
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

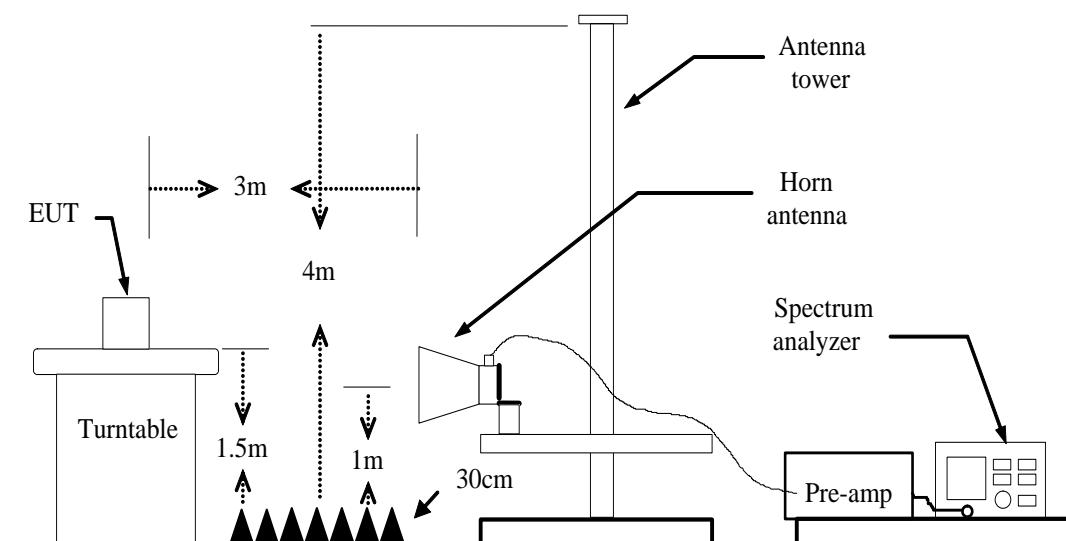
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The FCC Site Registration number is 101879.
3. N.C.R = No Calibration Required.



7.6.3. STEST PROCEDURES (please refer to measurement standard)

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz / VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=Peak
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

7.6.4. TEST SETUP



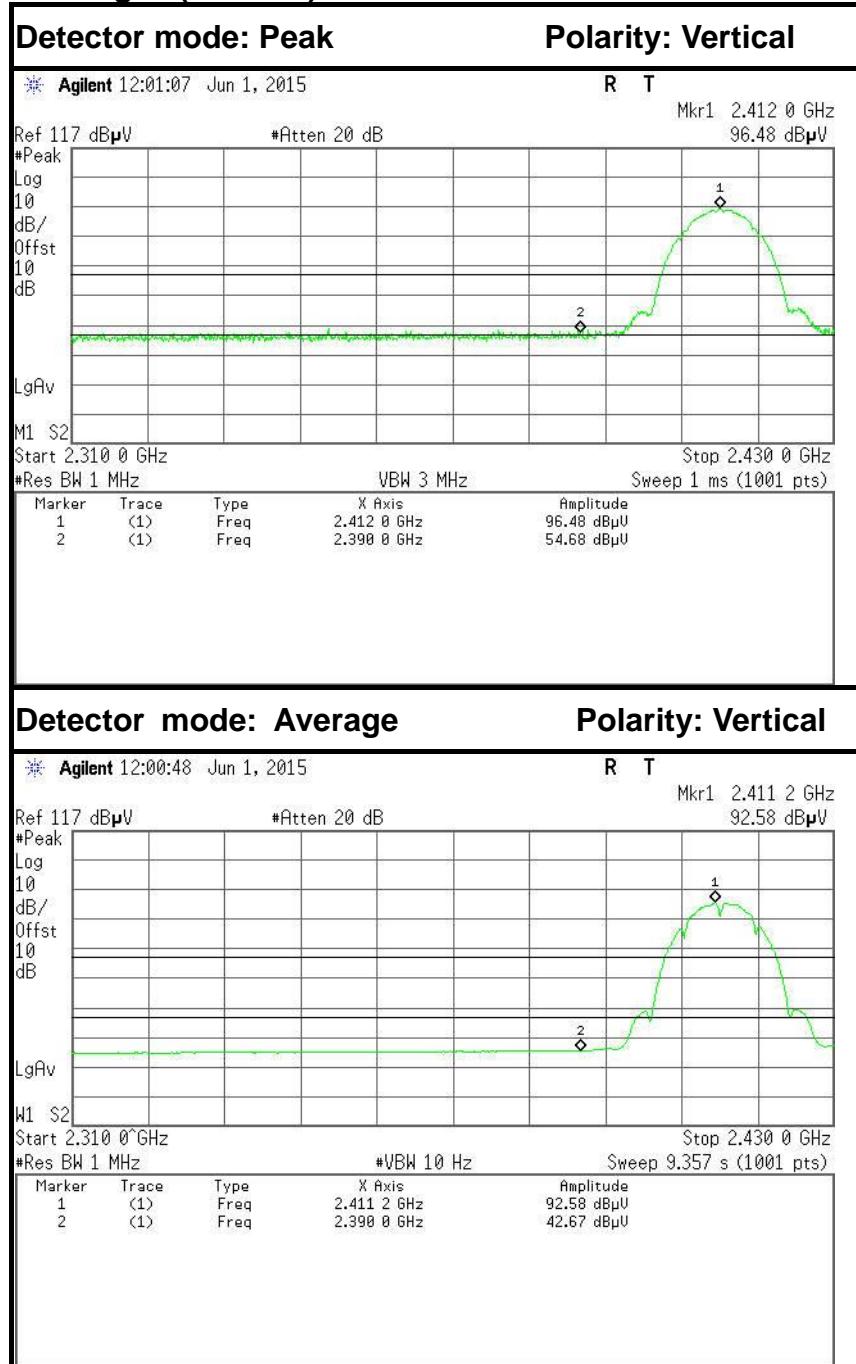


7.6.5. TEST RESULTS

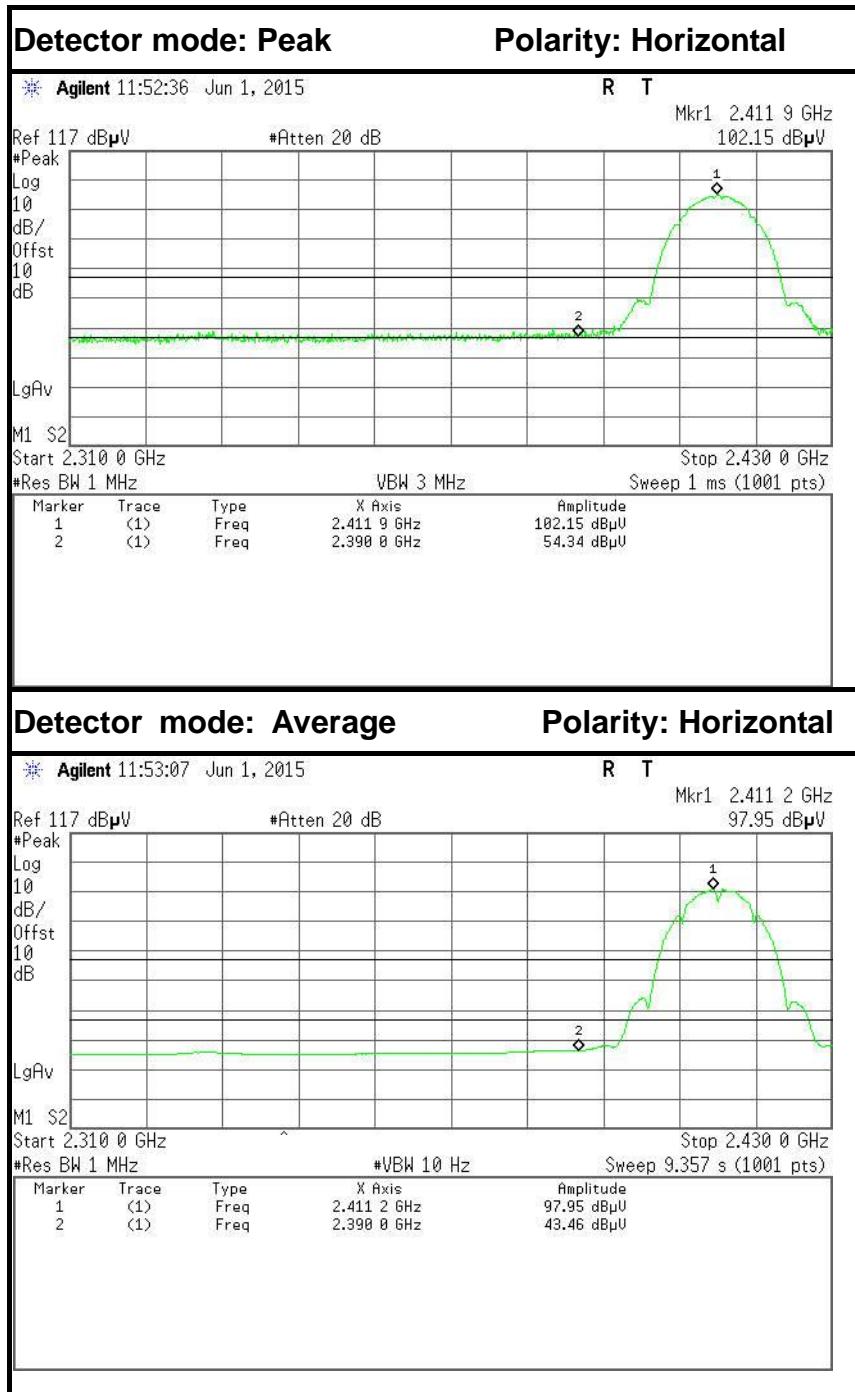
Test Plot

IEEE 802.11b mode

Band Edges (CH Low)



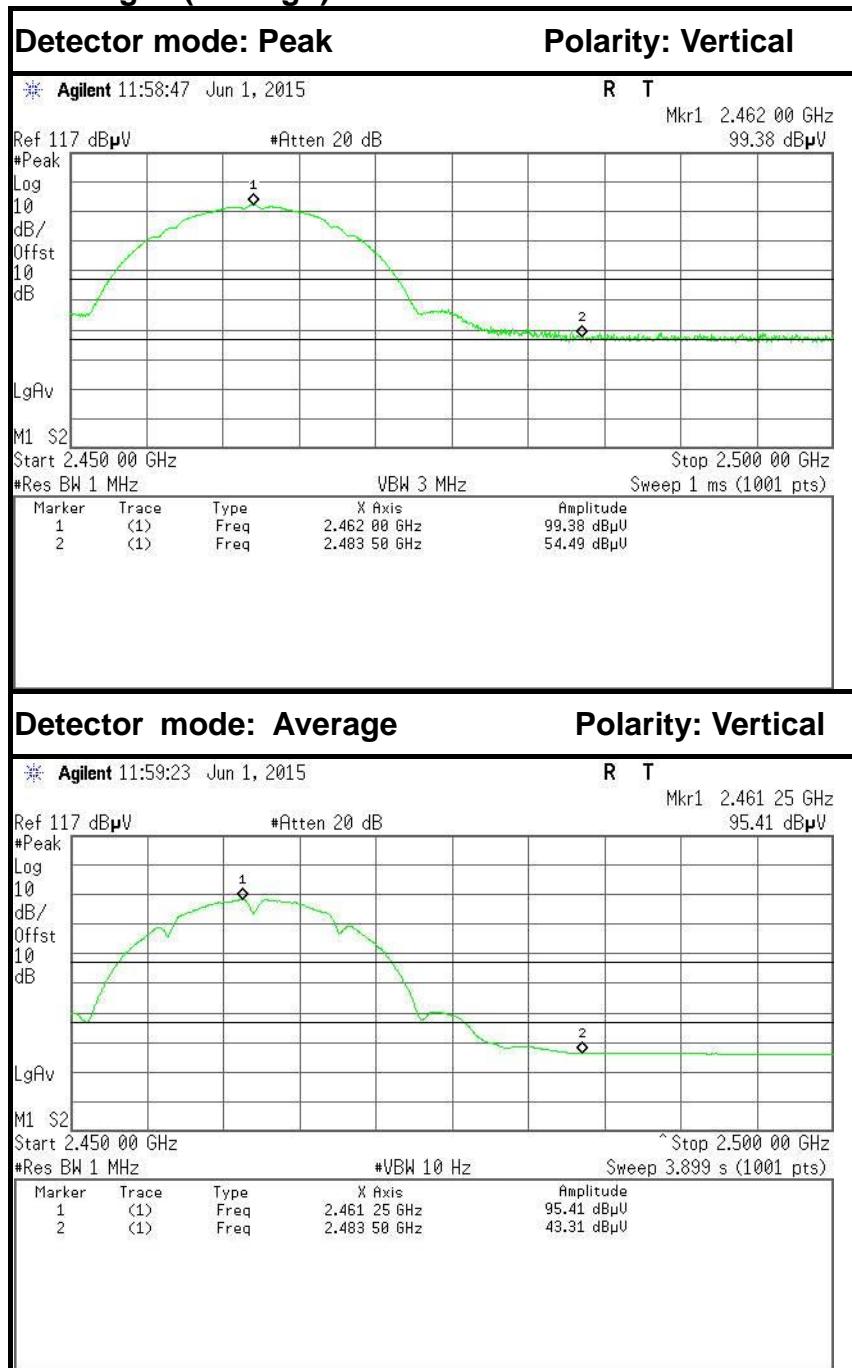
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	48.08	-6.60	54.68	74.00	-19.32	Peak	Vertical
2	2390.0000	36.07	-6.60	42.67	54.00	-11.33	Average	Vertical



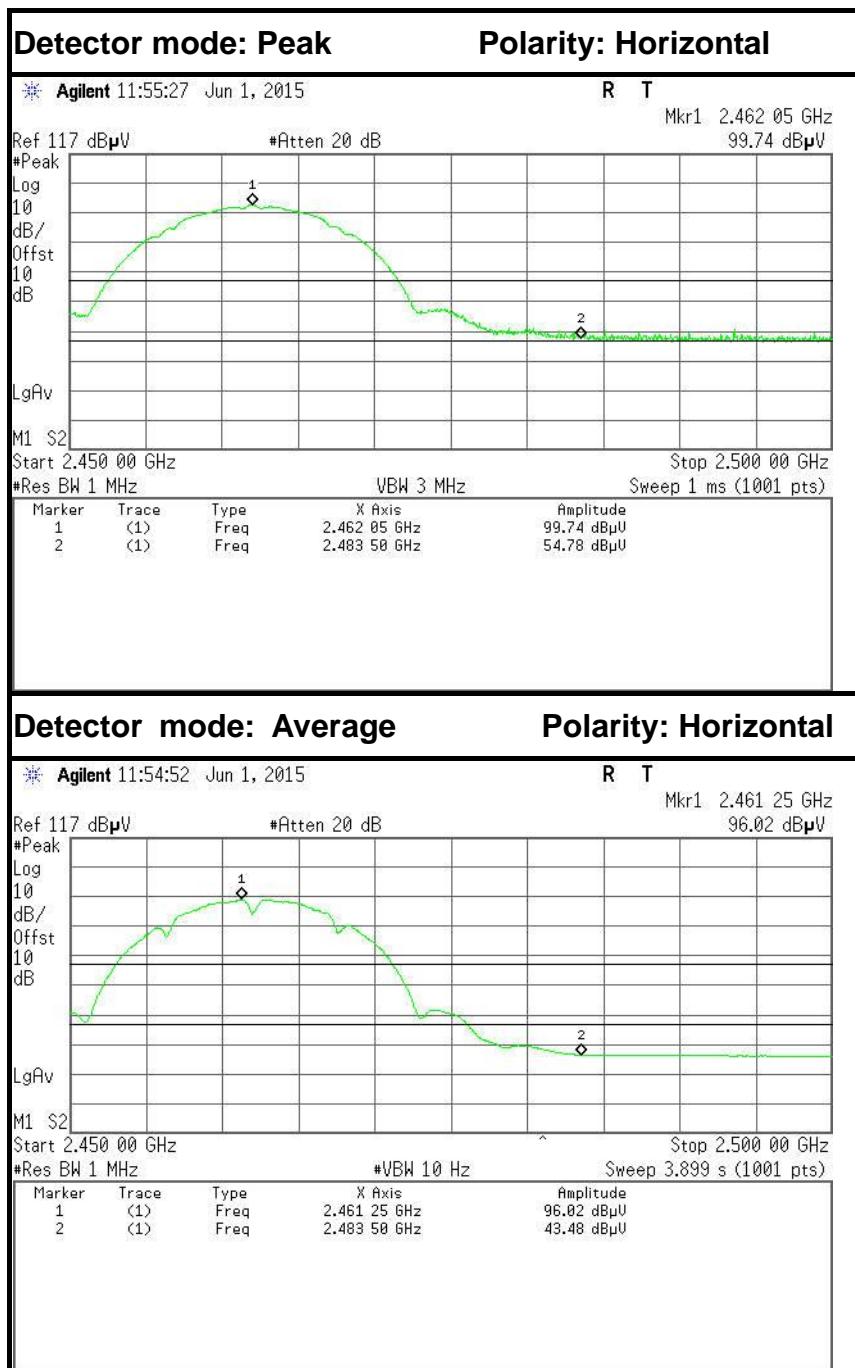
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	47.74	-6.60	54.34	74.00	-19.66	Peak	Horizontal
2	2390.0000	36.86	-6.60	43.46	54.00	-10.54	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	48.25	-6.24	54.49	74.00	-19.51	Peak	Vertical
2	2483.5000	37.07	-6.24	43.31	54.00	-10.69	Average	Vertical

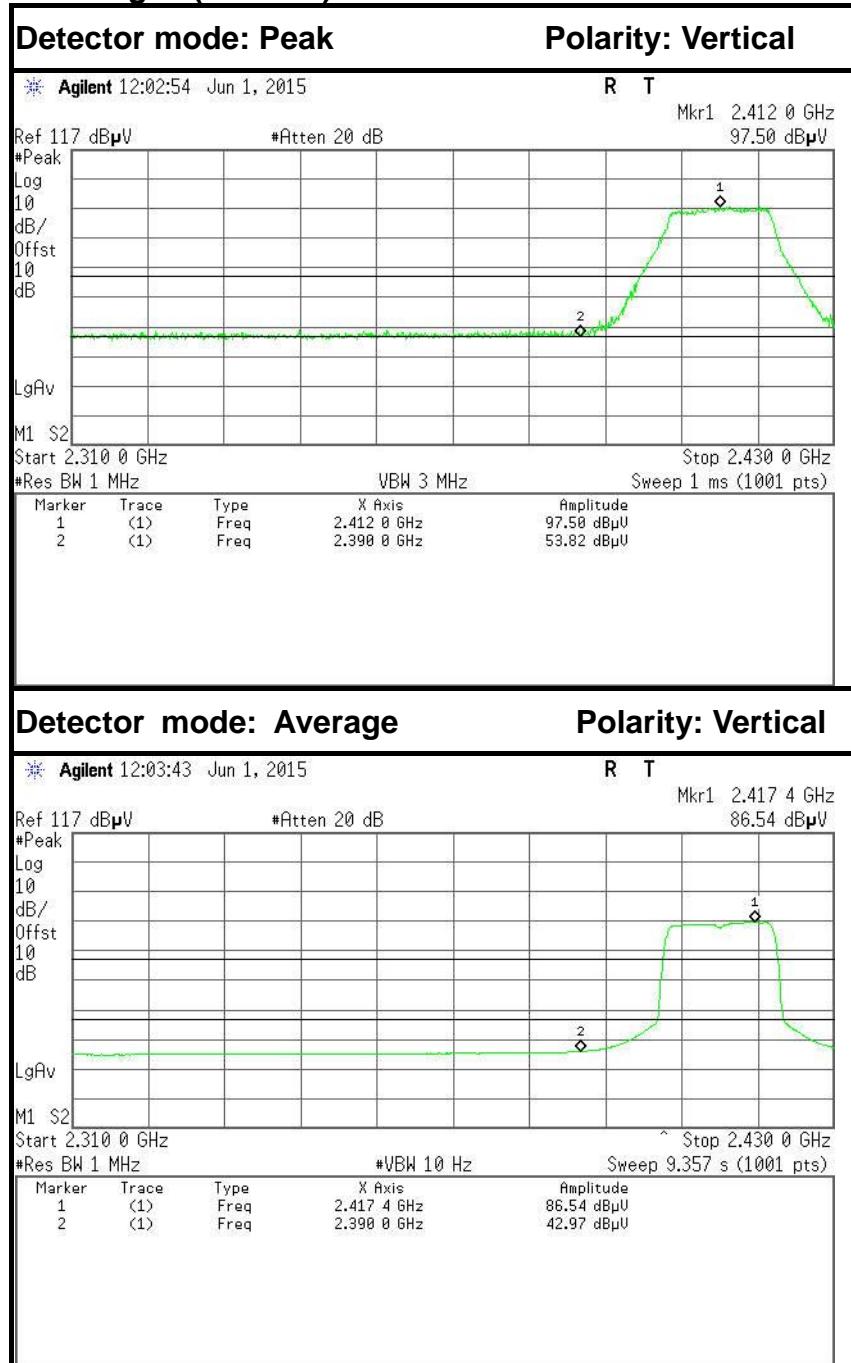


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	48.54	-6.24	54.78	74.00	-19.22	Peak	Horizontal
2	2483.5000	37.24	-6.24	43.48	54.00	-10.52	Average	Horizontal

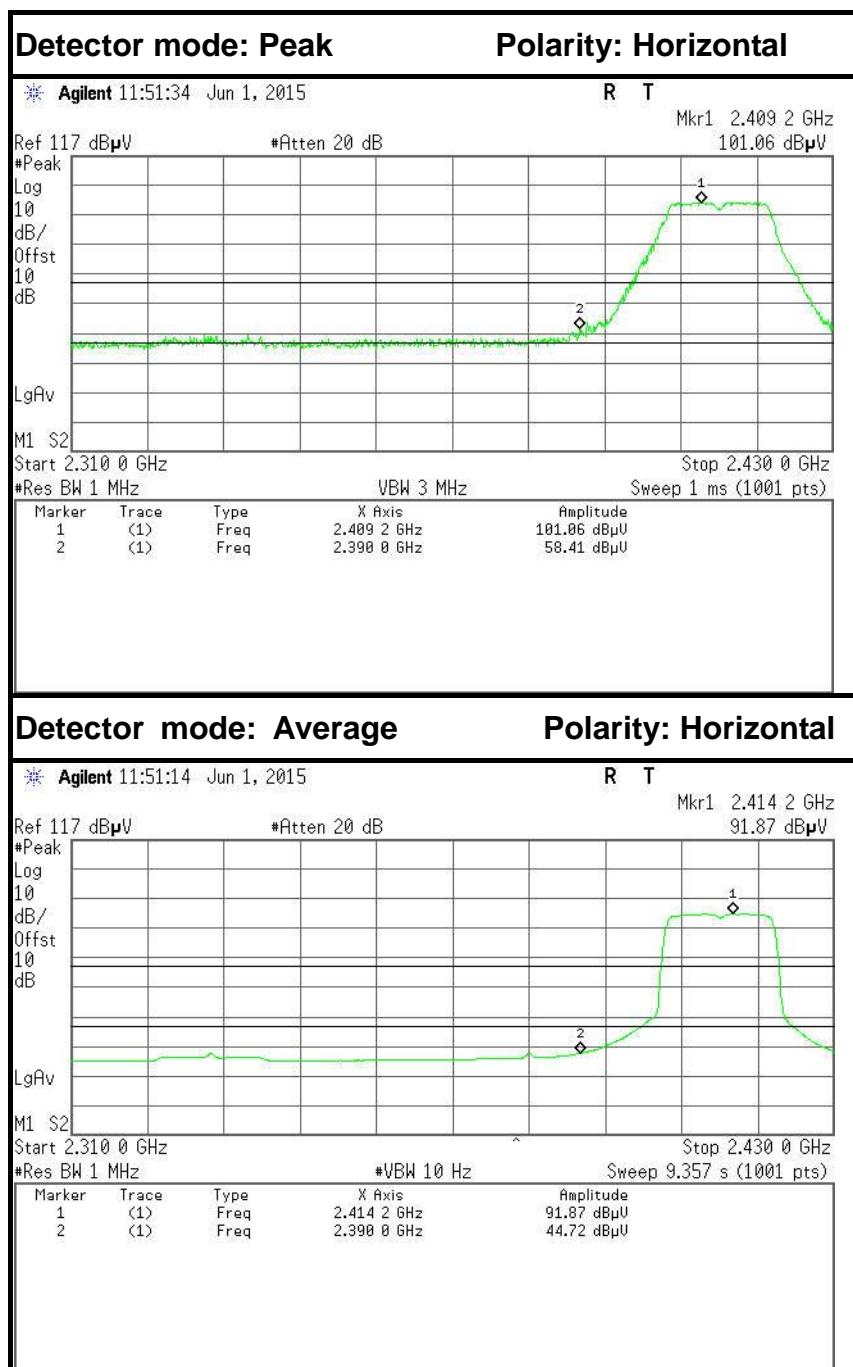


IEEE 802.11g mode

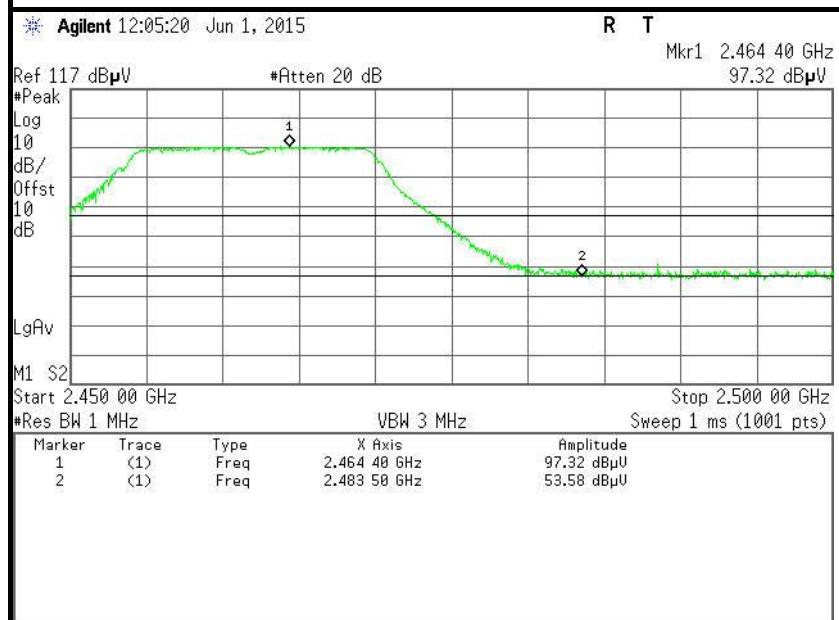
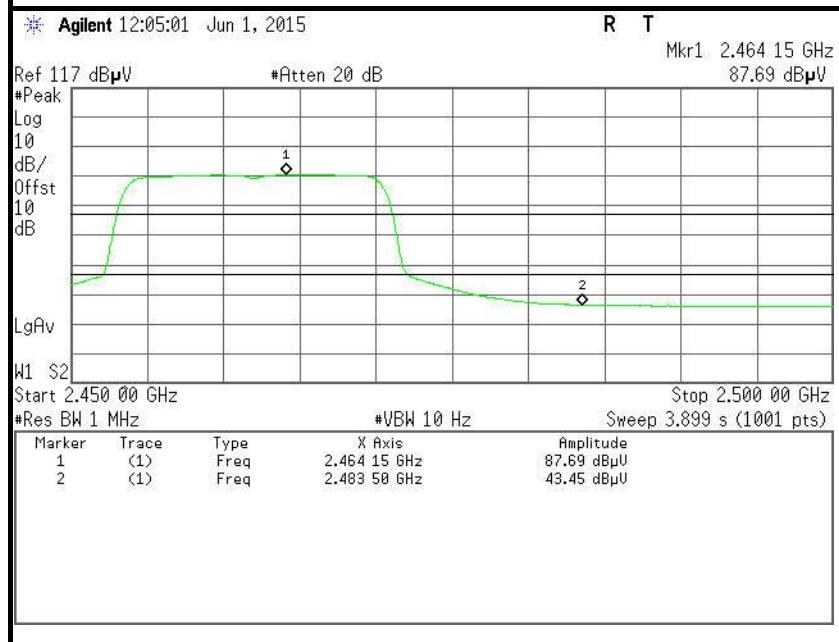
Band Edges (CH Low)



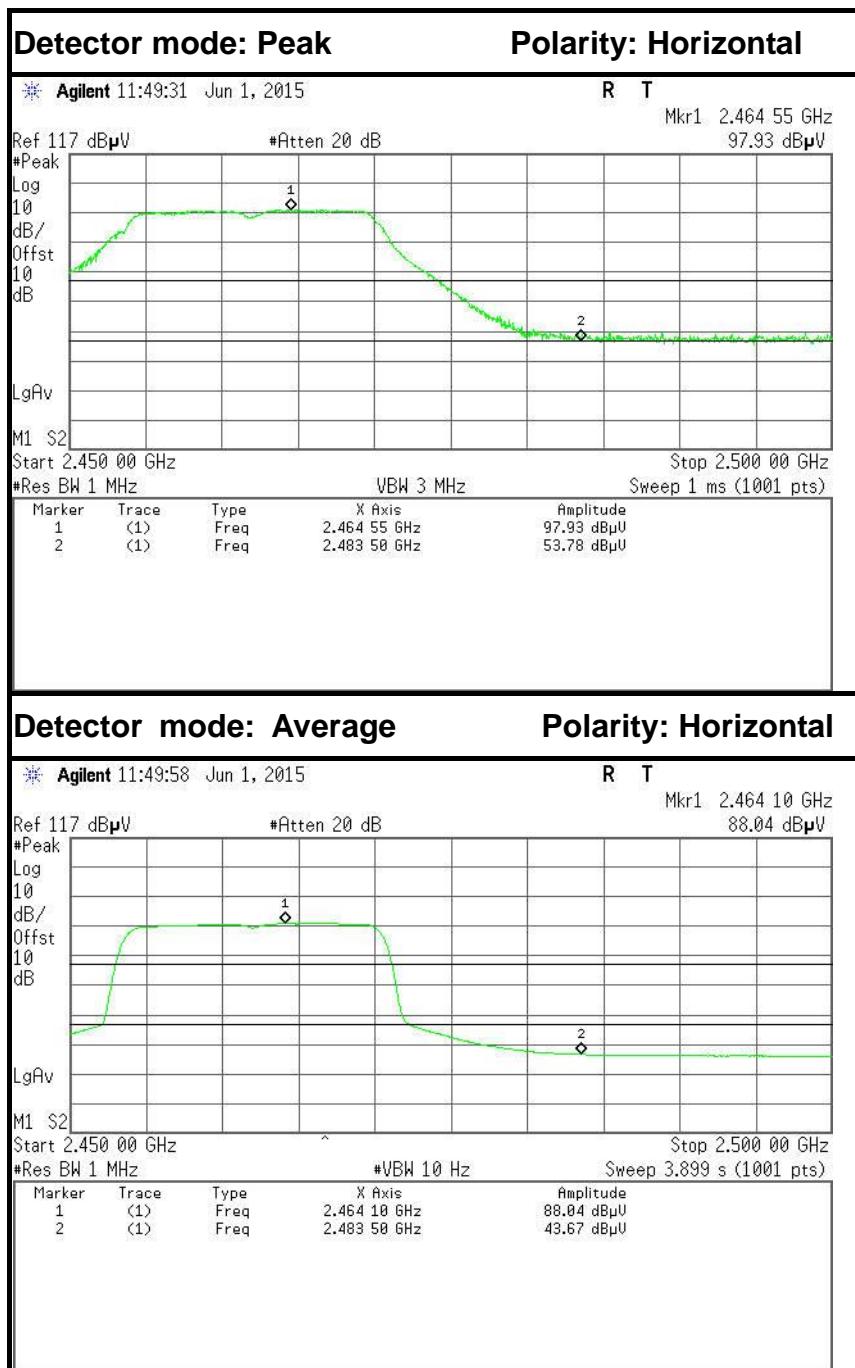
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	47.22	-6.60	53.82	74.00	-20.18	Peak	Vertical
2	2390.0000	36.37	-6.60	42.97	54.00	-11.03	Average	Vertical



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	51.81	-6.60	58.41	74.00	-15.59	Peak	Horizontal
2	2390.0000	38.12	-6.60	44.72	54.00	-9.28	Average	Horizontal

**Band Edges (CH High)****Detector mode: Peak****Polarity: Vertical****Detector mode: Average****Polarity: Vertical**

No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	47.34	-6.24	53.58	74.00	-20.42	Peak	Vertical
2	2483.5000	37.21	-6.24	43.45	54.00	-10.55	Average	Vertical

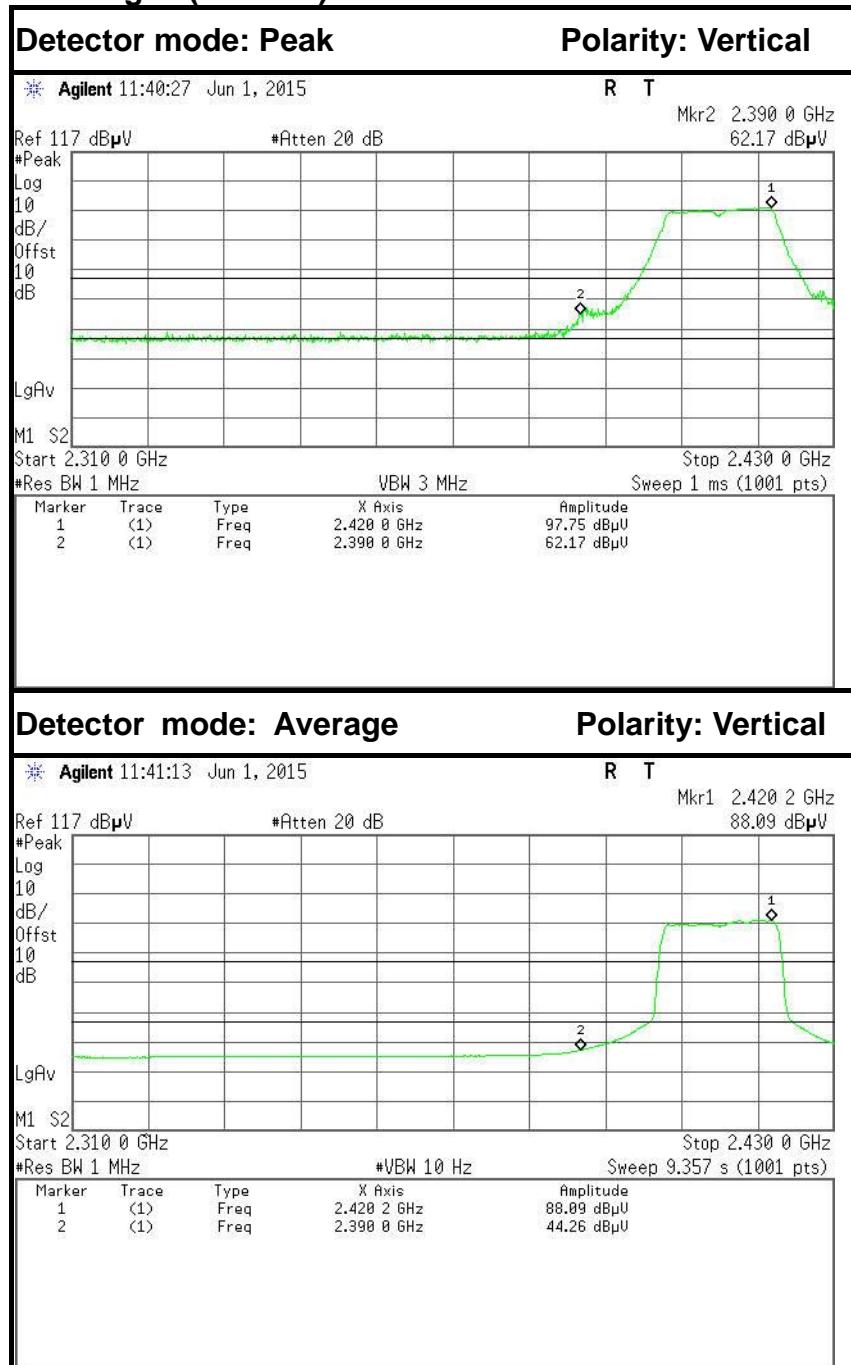


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	47.54	-6.24	53.78	74.00	-20.22	Peak	Horizontal
2	2483.5000	37.43	-6.24	43.67	54.00	-10.33	Average	Horizontal

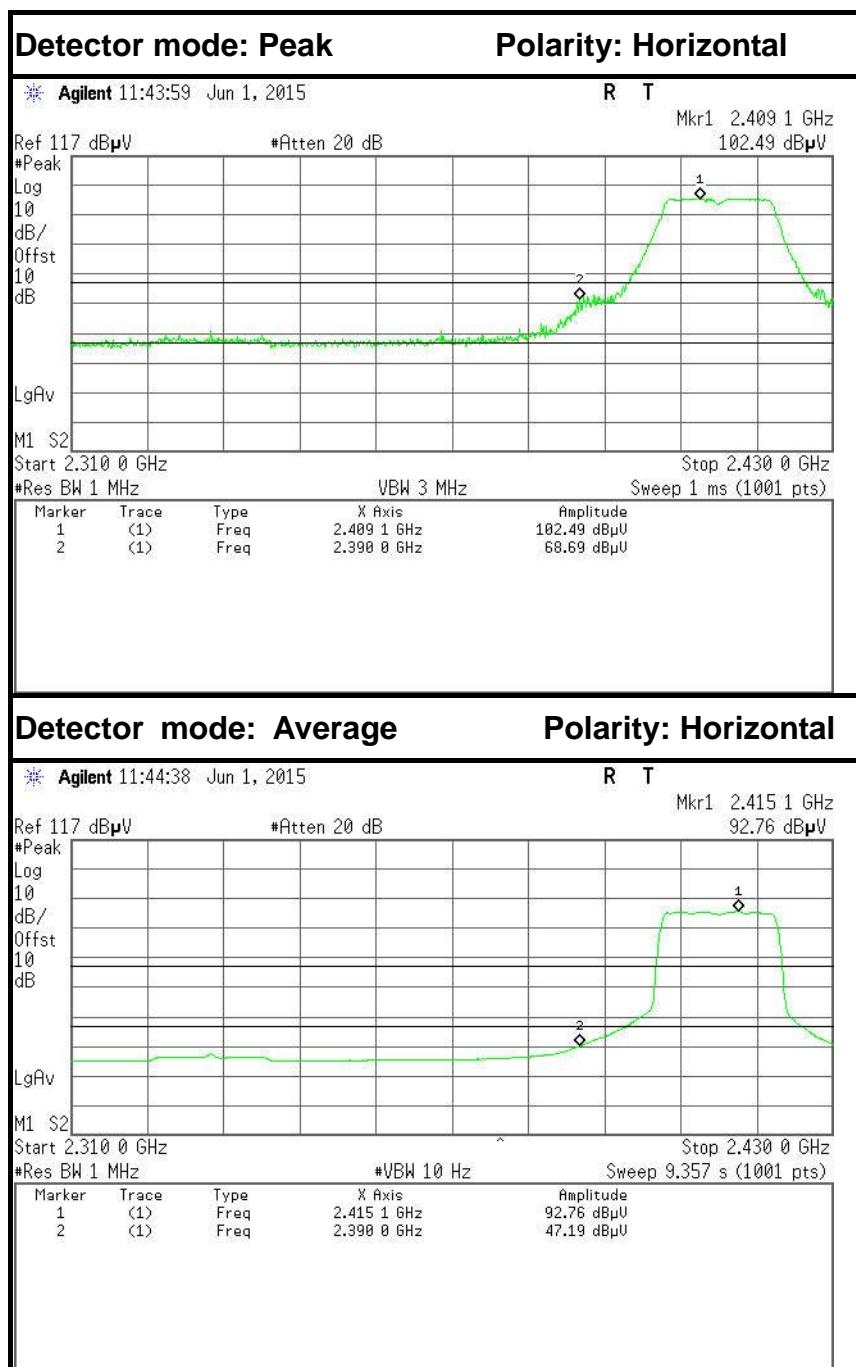


IEEE 802.11n HT20 MHz mode

Band Edges (CH Low)



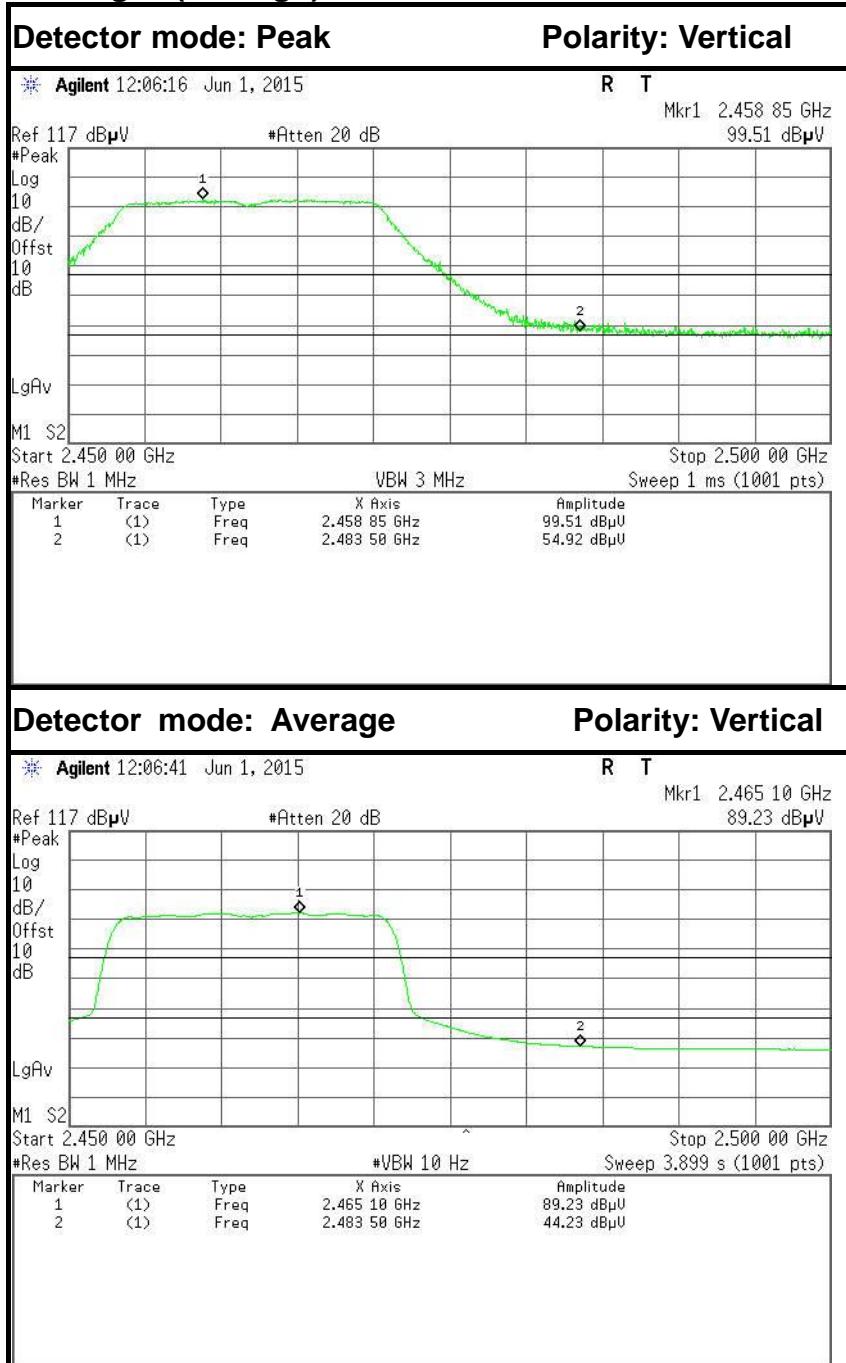
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	55.57	-6.60	62.17	74.00	-11.83	Peak	Vertical
2	2390.0000	37.66	-6.60	44.26	54.00	-9.74	Average	Vertical



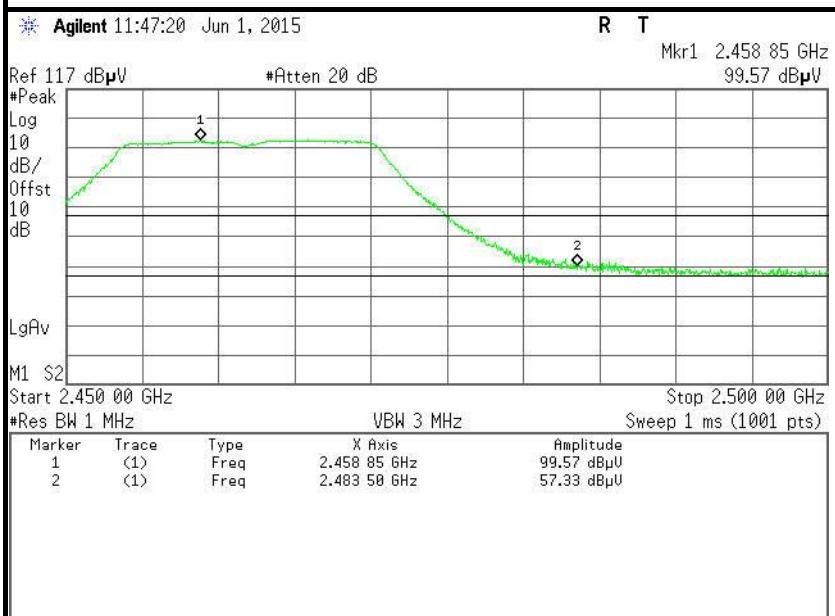
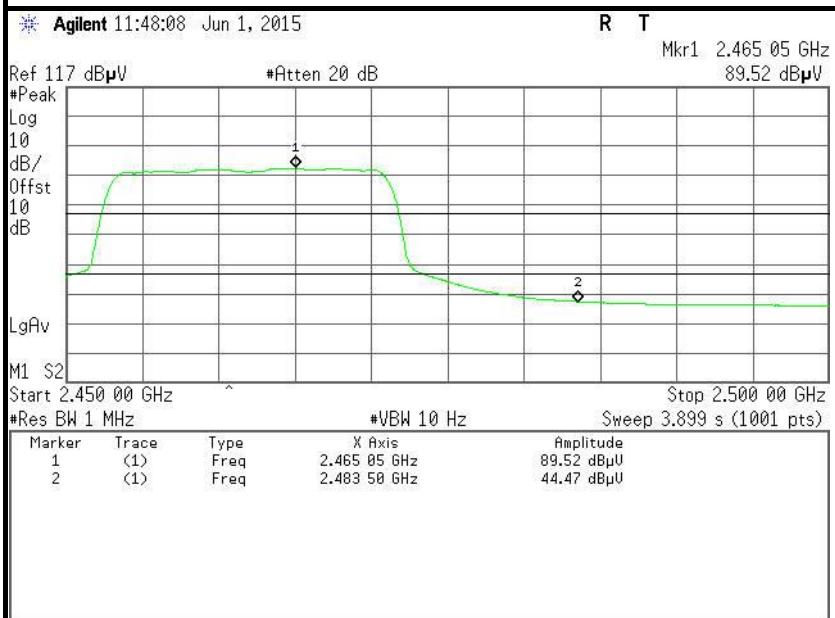
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	62.09	-6.60	68.69	74.00	-5.31	Peak	Horizontal
2	2390.0000	40.59	-6.60	47.19	54.00	-6.81	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	48.68	-6.24	54.92	74.00	-19.08	Peak	Vertical
2	2483.5000	37.99	-6.24	44.23	54.00	-9.77	Average	Vertical

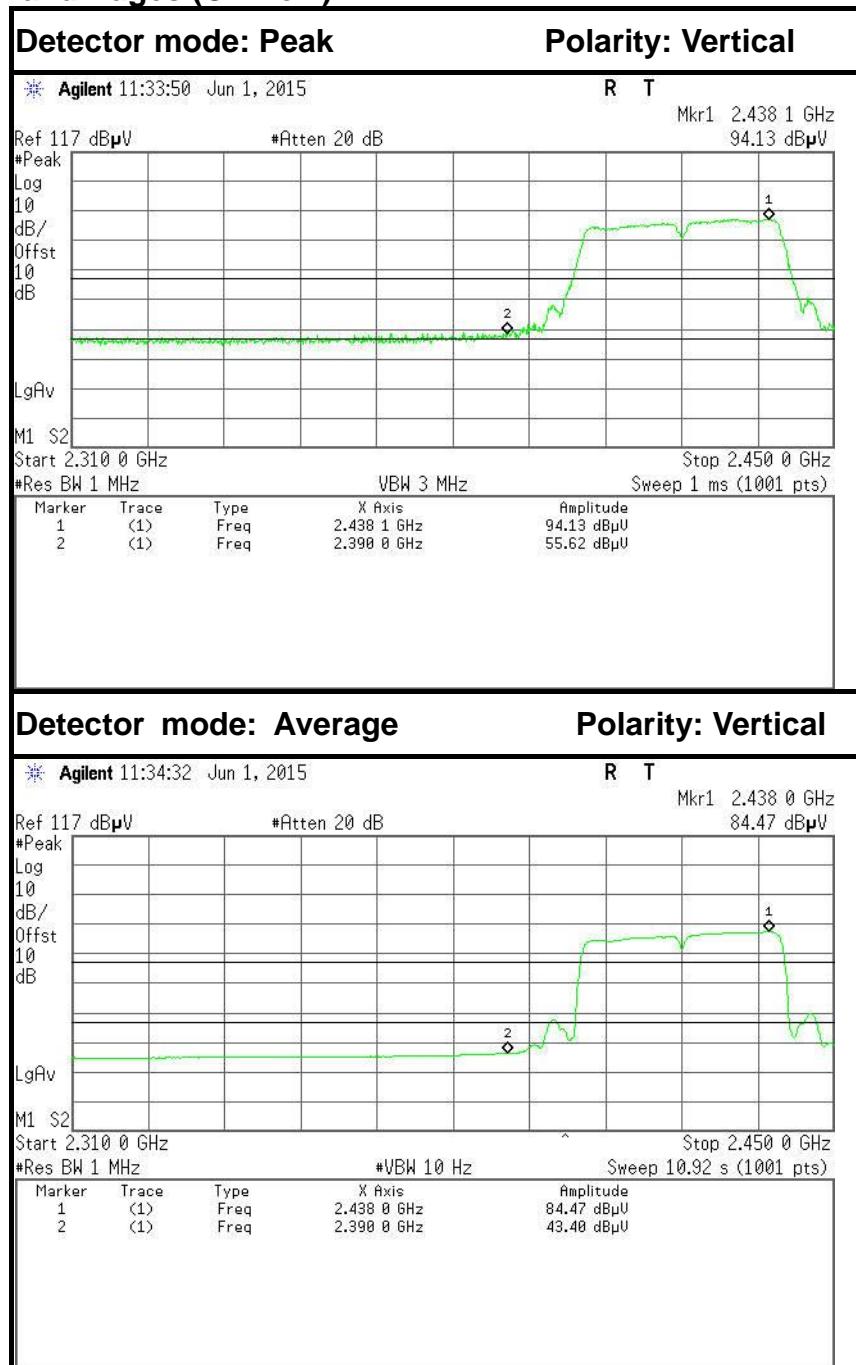
**Detector mode: Peak****Polarity: Horizontal****Detector mode: Average****Polarity: Horizontal**

No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	51.09	-6.24	57.33	74.00	-16.67	Peak	Horizontal
2	2483.5000	38.23	-6.24	44.47	54.00	-9.53	Average	Horizontal

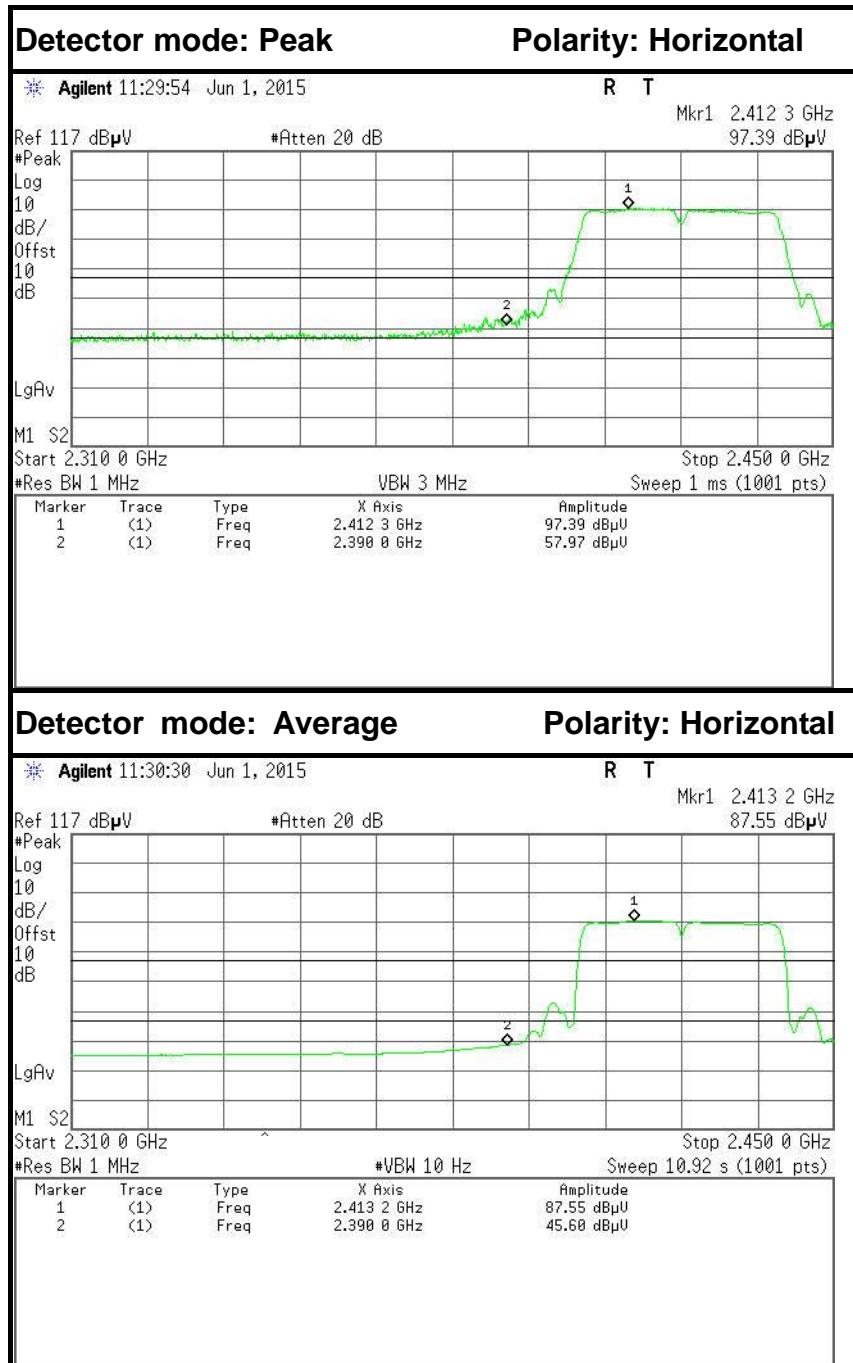


IEEE 802.11n HT40 MHz mode

Band Edges (CH Low)



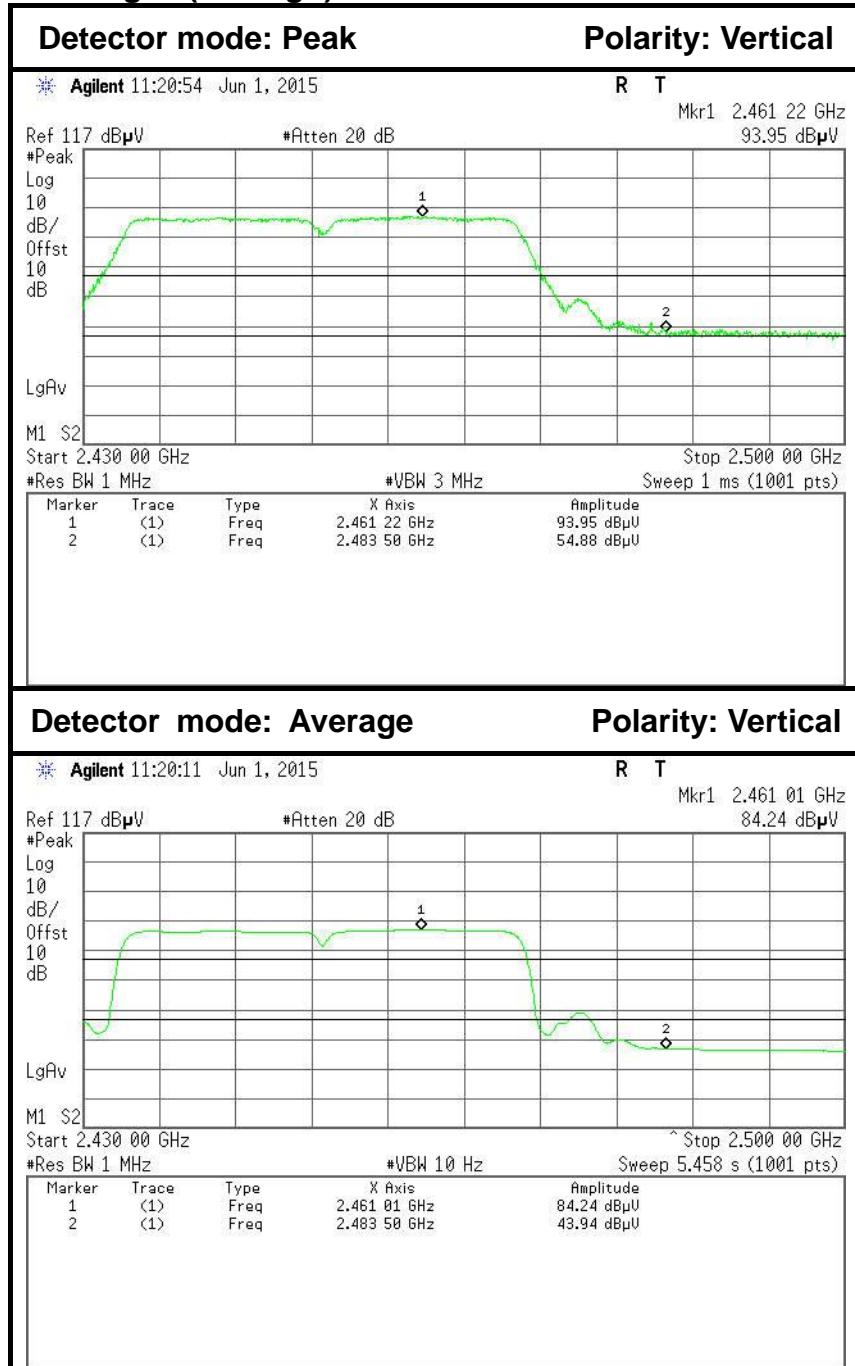
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	49.02	-6.60	55.62	74.00	-18.38	Peak	Vertical
2	2390.0000	36.80	-6.60	43.40	54.00	-10.60	Average	Vertical



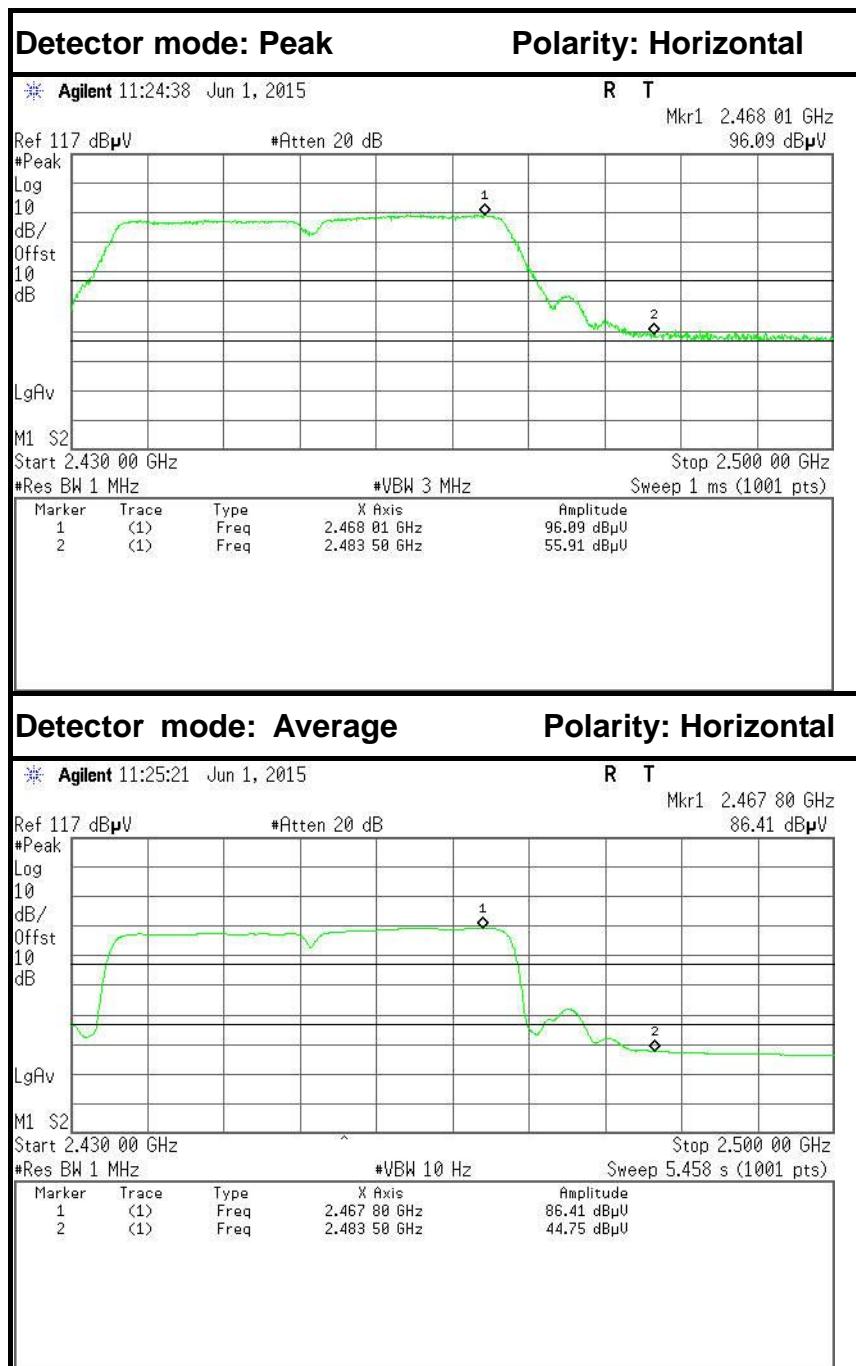
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	51.37	-6.60	57.97	74.00	-16.03	Peak	Horizontal
2	2390.0000	39.00	-6.60	45.60	54.00	-8.40	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	48.56	-6.24	54.80	74.00	-19.20	Peak	Vertical
2	2483.5000	37.70	-6.24	43.94	54.00	-10.06	Average	Vertical



SSS

No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	49.67	-6.24	55.91	74.00	-18.09	Peak	Horizontal
2	2483.5000	38.51	-6.24	44.75	54.00	-9.25	Average	Horizontal



7.7. PEAK POWER SPECTRAL DENSITY MEASUREMENT

7.7.1. LIMITS

According to §15.247(e), 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.

According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

7.7.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/21/2017

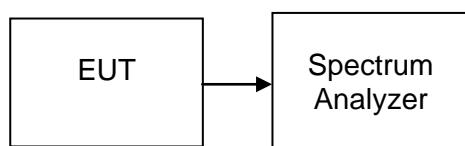
7.7.3. TEST PROCEDURES (please refer to measurement standard)

§15.247(e) specifies a conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the fundamental EBW during any time interval of continuous transmission. The same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if peak-detected fundamental power was measured then use the peak PSD procedure and if average fundamental power was measured then use the average PSD procedure).

10.2 Method PKPSD (peak PSD)

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.7.4. TEST SETUP



7.7.5. TEST RESULTS

No non-compliance noted

**Test Data****Test mode: IEEE 802.11b**

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-23.20	8	PASS
Mid	2437	-22.32		PASS
High	2462	-25.10		PASS

Test mode: IEEE 802.11g

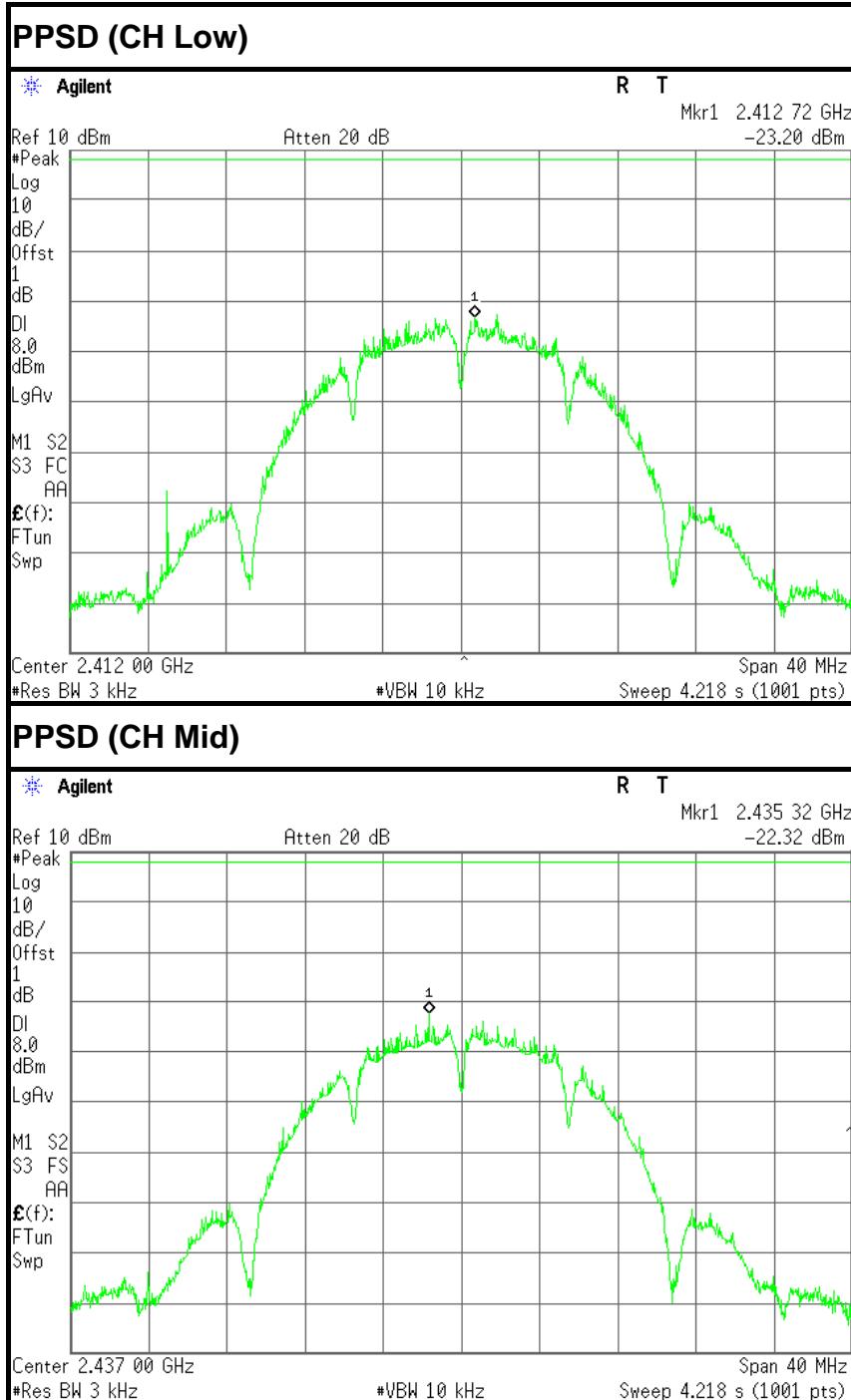
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-26.76	8	PASS
Mid	2437	-27.25		PASS
High	2462	-29.14		PASS

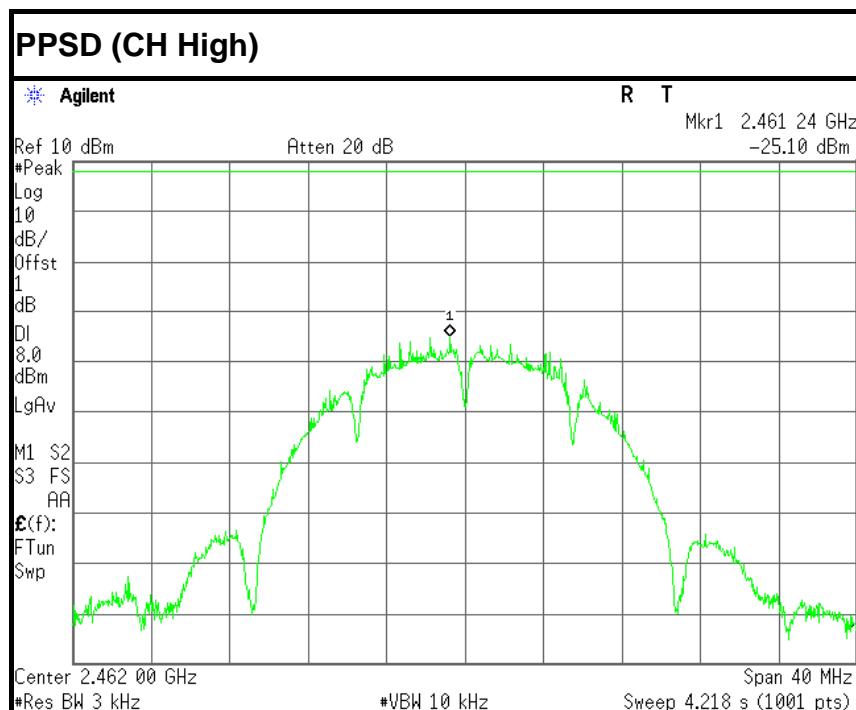
Test mode: IEEE 802.11n HT20 MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-24.84	8	PASS
Mid	2437	-25.35		PASS
High	2462	-27.56		PASS

Test mode: IEEE 802.11n HT40 MHz

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2422	-29.39	8	PASS
Mid	2437	-30.21		PASS
High	2452	-31.24		PASS

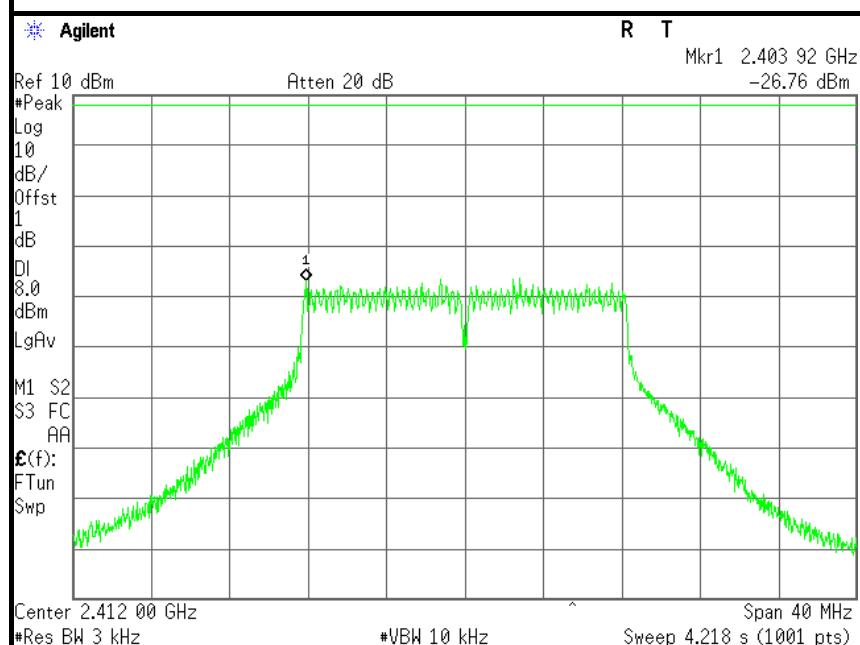
**Test Plot****IEEE 802.11b mode**



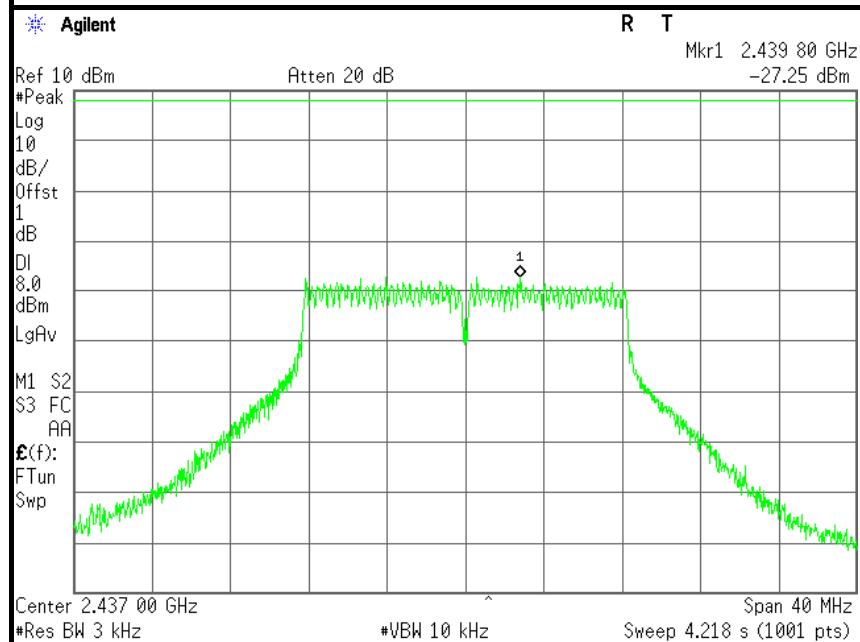


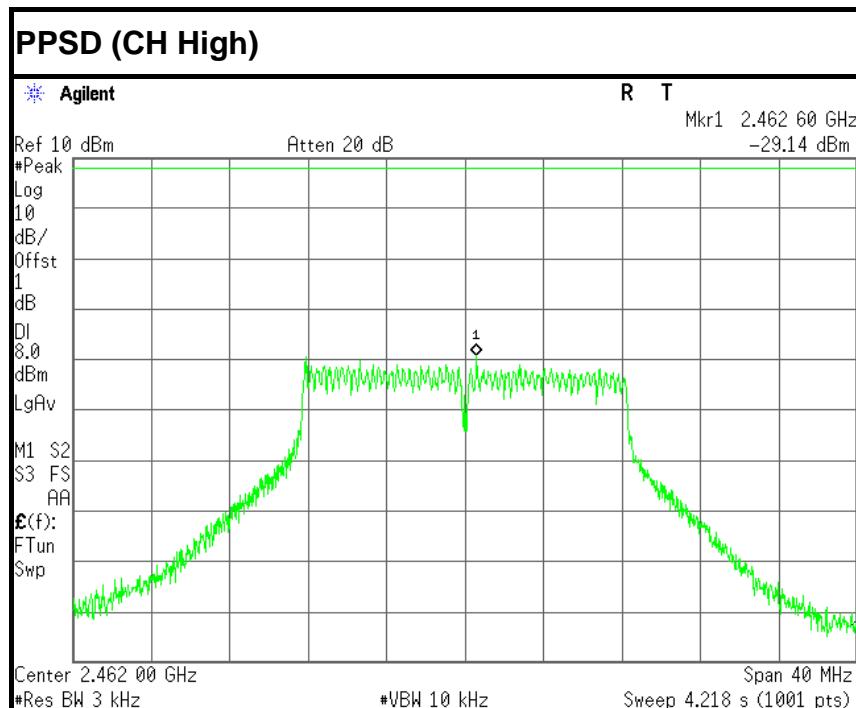
IEEE 802.11g mode

PPSD (CH Low)



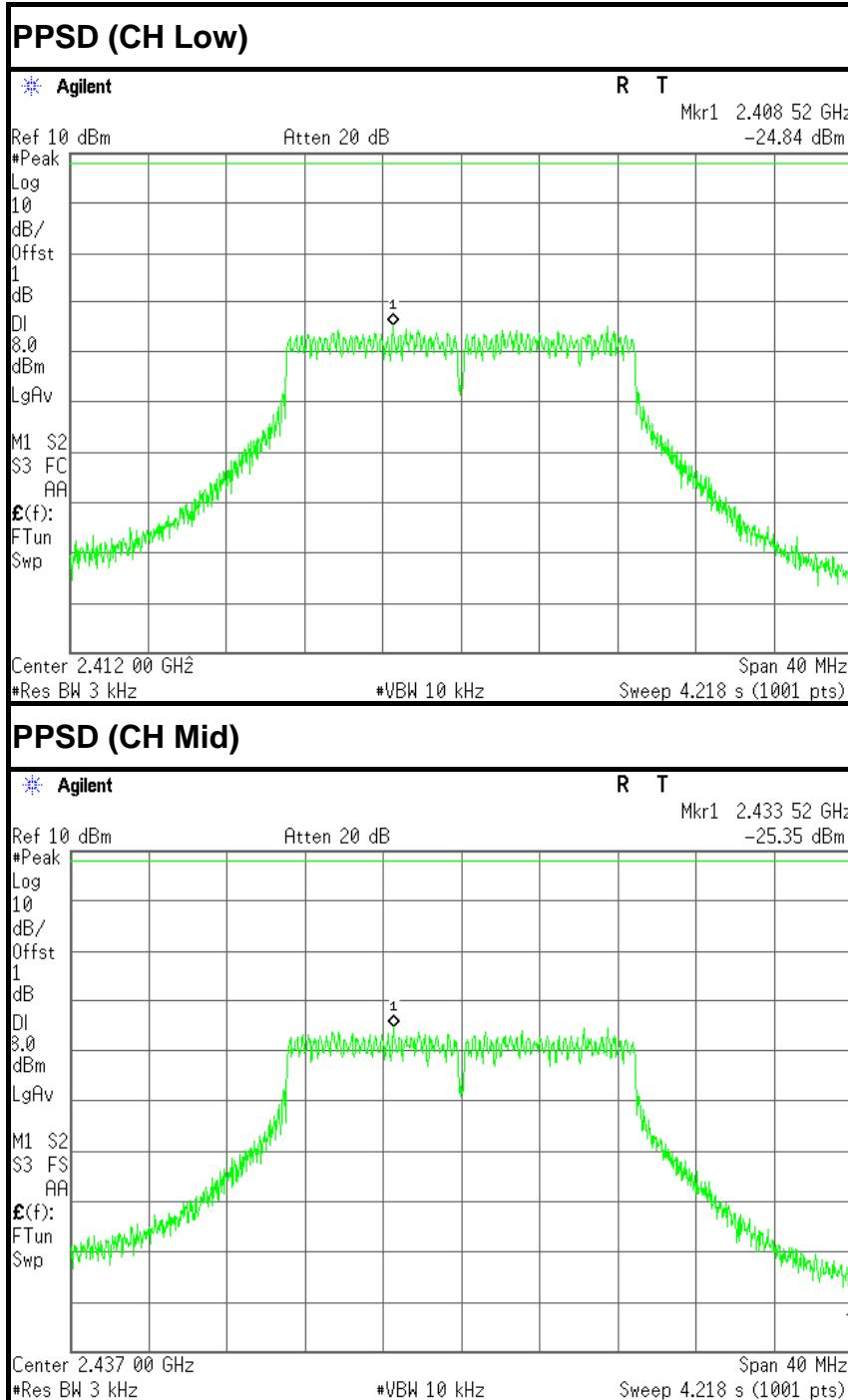
PPSD (CH Mid)

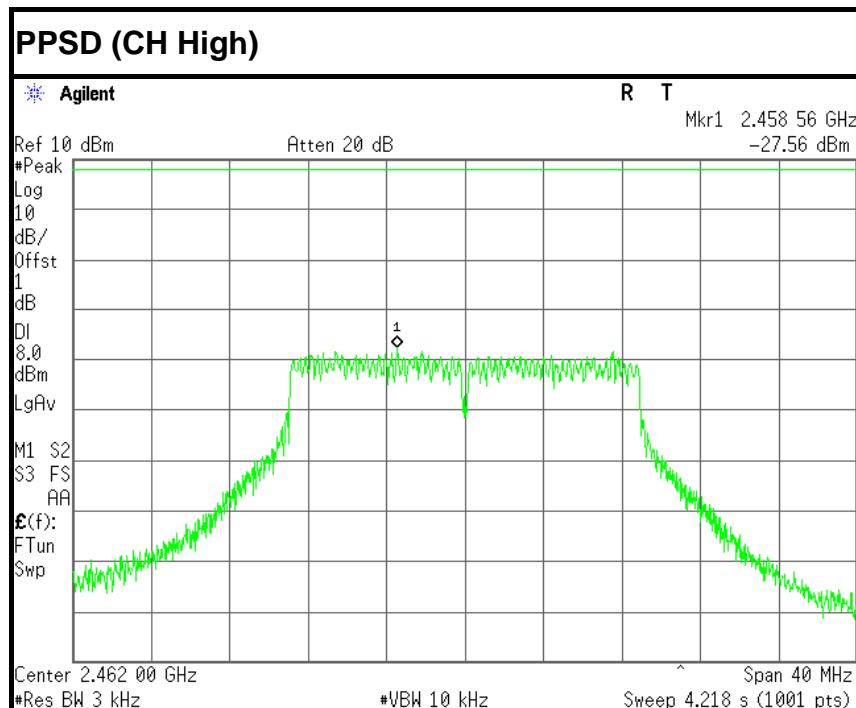






IEEE 802.11n HT20 MHz mode

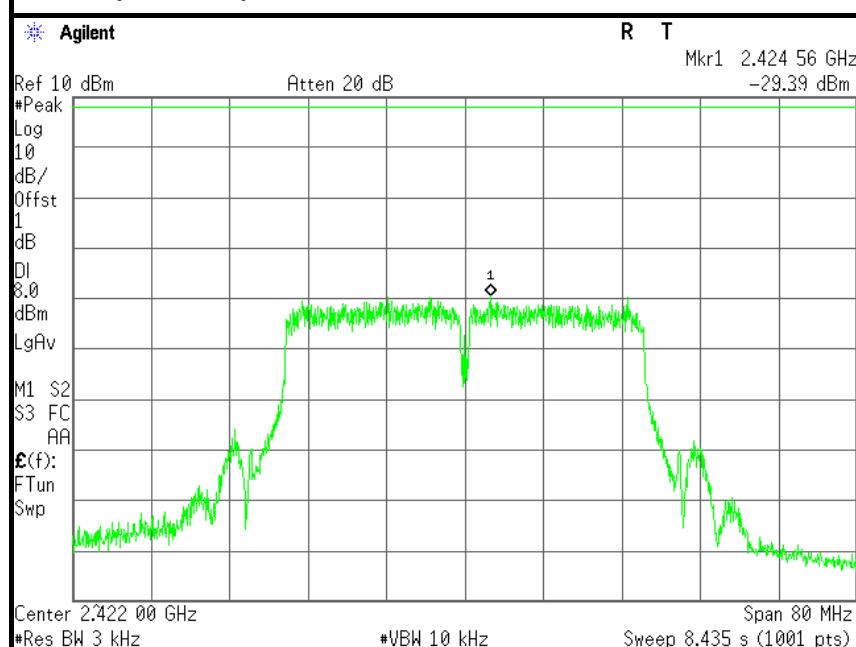






IEEE 802.11n HT40 MHz mode

PPSD (CH Low)



PPSD (CH Mid)

