

FCC- TEST REPORT

Report Number : **68.950.16.156.01** Date of Issue: May 19, 2016

Model : **KX-HNC800**

Product Type : HD Wi-Fi Camera

Applicant : Panasonic Corporation of North America

Address : Two Riverfront Plaza, 9th Floor, Newark, NJ, 07102-5490, USA

Manufacturer : Panasonic System Networks Co., Ltd.

Address : 1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

Test Result : **Positive** **Negative**

Total pages : 35

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
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P. R. China

FCC Registration Number: 502708

IC Registration No: 10320A-1

Telephone: 86 755 8828 6998
Fax: 86 755 8828 5299

3 Description of the Equipment under Test

Description of the Equipment Under Test

Product:	HD Wi-Fi Camera
Model no.:	KX-HNC800
Brand Name:	Panasonic
FCC ID:	ACJ96NKX-HNC800
Options and accessories:	NIL
Rating:	5VDC,1.0A (Supplied by an external power adapter Adapter input:100-240VAC, 50/60Hz, 0.2A Adapter output:5.0V, 1.0A)
RF Transmission Frequency:	2412-2462MHz for 802.11b/g/n-HT20
No. of Operated Channel:	11
Modulation:	OFDM, DSSS
Antenna Type:	Integral Antenna
Antenna Gain:	2.5dBi
Description of the EUT:	The Equipment Under Test (EUT) is a WIFI Camera with WIFI function which operated at 2.4GHz and 5GHz Only 2.4GWifi test data include in this report.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2015 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 DTS Meas Guidance v03r03 and ANSI C63.10 (2013).

5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition	Pages	Test Site	Test Result			
			Pass	Fail	N/A	
§15.207	Conducted emission AC power port	10	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247 (b) (1)	Conducted peak output power	13	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(a)(1)	20dB bandwidth	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)	Carrier frequency separation	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Number of hopping frequencies	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Dwell Time	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(2)	6dB bandwidth	14	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(e)	Power spectral density	15	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Spurious RF conducted emissions	16	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Band edge	26	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	30	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.203	Antenna requirement	See note 1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses an internal antenna, which gain is 2.5dBi. According to §15.203, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: ACJ96NKX-HNC800 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

The Equipment under Test

- **Fulfills** the general approval requirements.

- **Does not** fulfill the general approval requirements.

Sample Received Date: April 14, 2016

Testing Start Date: April 18, 2016

Testing End Date: May 18, 2016

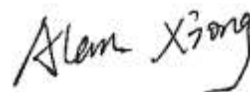
- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Prepared by:



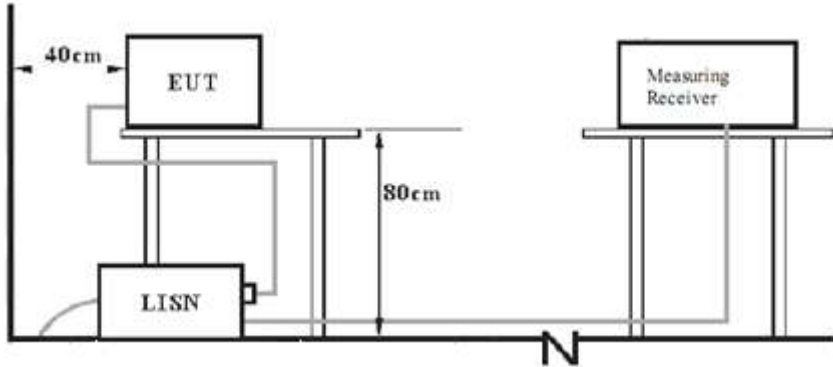
John Zhi
Section Manager



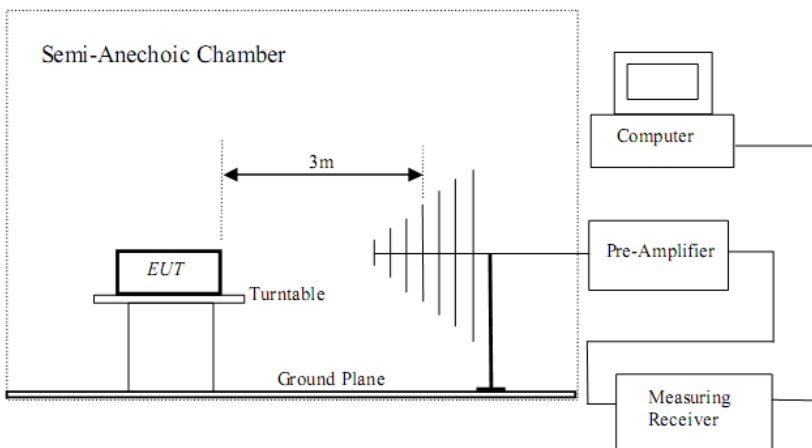
Alan Xiong
Project Engineer

7 Test Setups

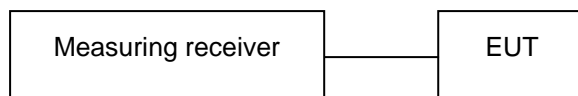
7.1 AC Power Line Conducted Emission test setups



7.1 Radiated test setups



7.2 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	X220	---

The system was configured to non-hopping mode.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

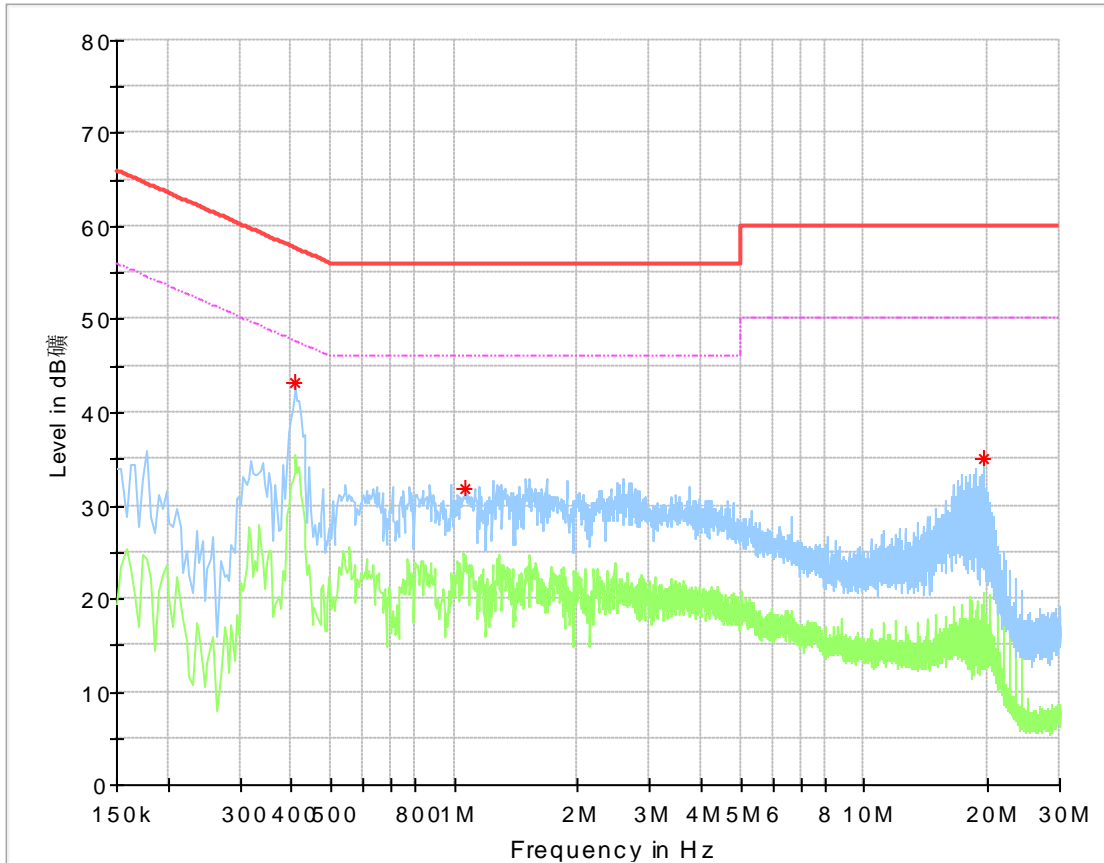
According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

Conducted Emission

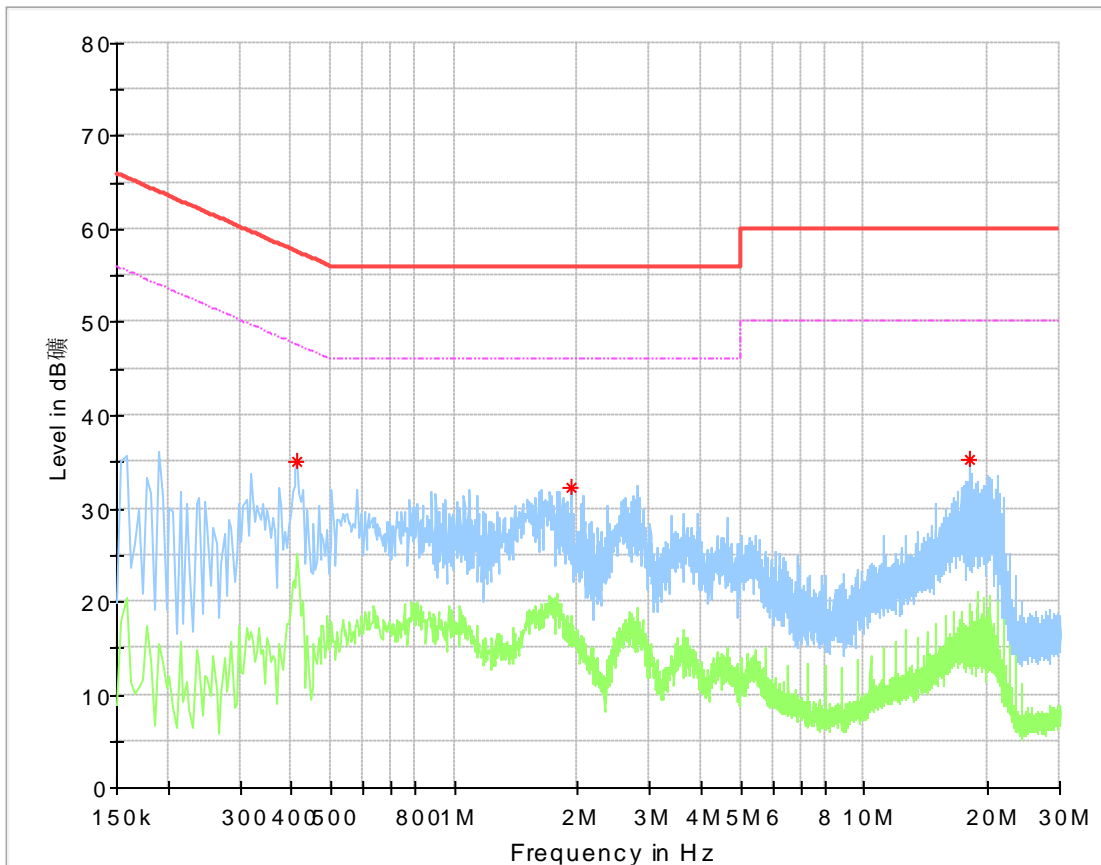
Product Type : HD Wi-Fi Camera
 M/N : KX-HNC800
 Operating Condition : Charging and Transmitting
 Test Specification : Line
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.410000	43.13	---	57.65	14.52	L1
1.066000	31.83	---	56.00	24.17	L1
19.638000	35.15	---	60.00	24.85	L1

Conducted Emission

Product Type : HD Wi-Fi Camera
 M/N : KX-HNC800
 Operating Condition : Charging and Transmitting
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line
0.414000	35.05	---	57.57	22.52	N
1.926000	32.33	---	56.00	23.67	N
18.042000	35.36	---	60.00	24.64	N

9.2 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
RBW > the 6 dB bandwidth of the emission being measured, VBW \geq 3RBW, Span \geq 3RBW
Sweep = auto, Detector function = peak, Trace = max hold.
2. Add a correction factor to the display.
3. Use a power meter to measure the conducted peak output power.

Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 1	≤ 30

Test result as below table

802.11B

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2412MHz	16.22	Pass
Middle channel 2437MHz	16.38	Pass
High channel 2462MHz	16.18	Pass

802.11G

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2412MHz	14.70	Pass
Middle channel 2437MHz	15.51	Pass
High channel 2462MHz	15.22	Pass

802.11N20

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2412MHz	14.85	Pass
Middle channel 2437MHz	15.06	Pass
High channel 2462MHz	15.19	Pass

9.3 6dB Bandwidth

Test Method

1. Use the following spectrum analyzer settings:
RBW=100K, VBW \geq 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
3. Allow the trace to stabilize, record the X dB Bandwidth value.
- 4.

Limit

According to §15.247 (a) (2) , 6dB bandwidth limit as below:

Limit [kHz]

≥500

Test result

802.11B

Frequency MHz	6dB bandwidth MHz	Result
Low channel 2412MHz	8.596	Pass
Middle channel 2437MHz	8.567	Pass
High channel 2462MHz	8.567	Pass

802.11G

Frequency MHz	6dB bandwidth MHz	Result
Low channel 2412MHz	16.339	Pass
Middle channel 2437MHz	16.324	Pass
High channel 2462MHz	16.324	Pass

802.11N20

Frequency MHz	6dB bandwidth MHz	Result
Low channel 2412MHz	17.583	Pass
Middle channel 2437MHz	17.627	Pass
High channel 2462MHz	17.583	Pass

9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. Set analyzer center frequency to DTS channel center frequency.
RBW=3kHz,VBW≥3RBW,Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
3. Repeat above procedures until other frequencies measured were completed.

Limit

According to §15.247 (e) (2), power spectral density limit as below:

Limit [dBm]

≤8

Test result

802.11 B

Frequency MHz	Power spectral density dBm	Result
Low channel 2412MHz	4.53	Pass
Middle channel 2437MHz	4.42	Pass
High channel 2462MHz	4.00	Pass

802.11 G

Frequency MHz	Power spectral density dBm	Result
Low channel 2412MHz	-1.66	Pass
Middle channel 2437MHz	-1.50	Pass
High channel 2462MHz	-1.81	Pass

802.11 N20

Frequency MHz	Power spectral density dBm	Result
Low channel 2412MHz	-2.59	Pass
Middle channel 2437MHz	-2.51	Pass
High channel 2462MHz	-2.52	Pass

9.5 Spurious RF conducted emissions

Test Method

1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW \geq 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
3. Repeat above procedures until other frequencies measured were completed.

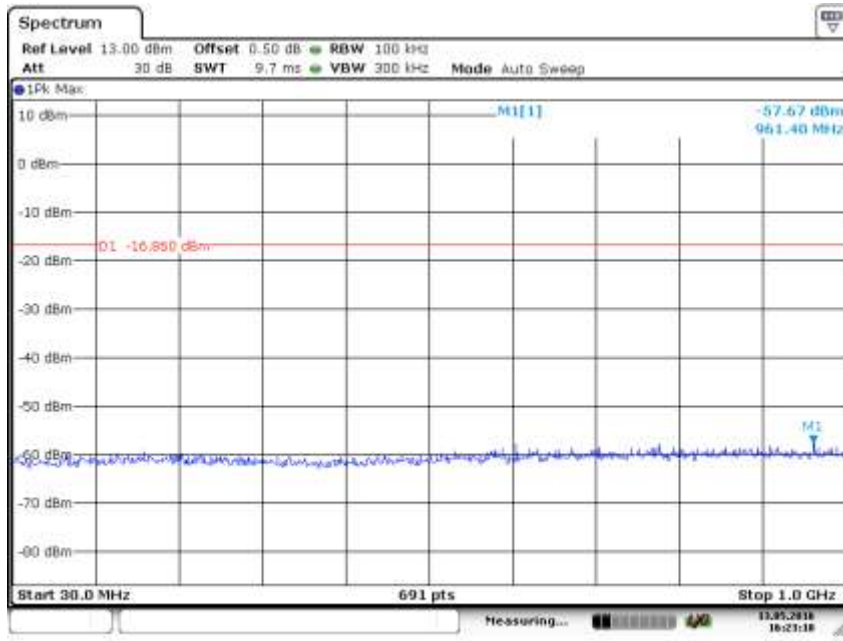
Limit

According to §15.247 (d), spurious RF conducted emissions limit as below:

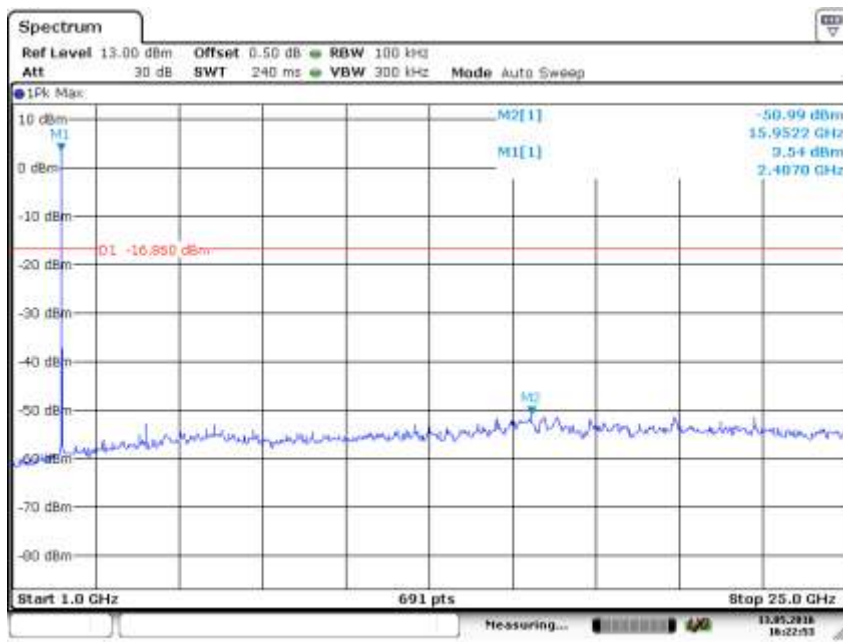
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result
802.11 B

2412MHz

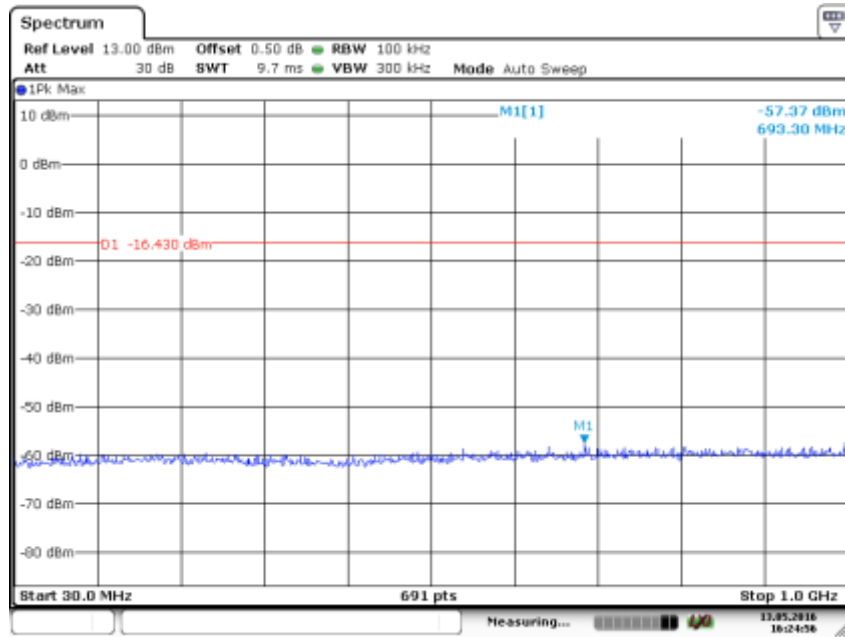


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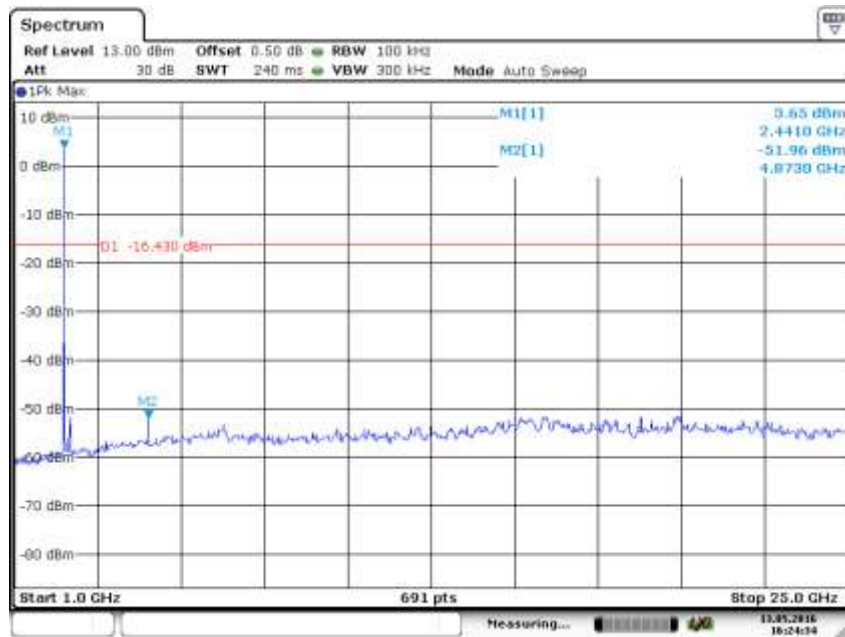


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2437MHz

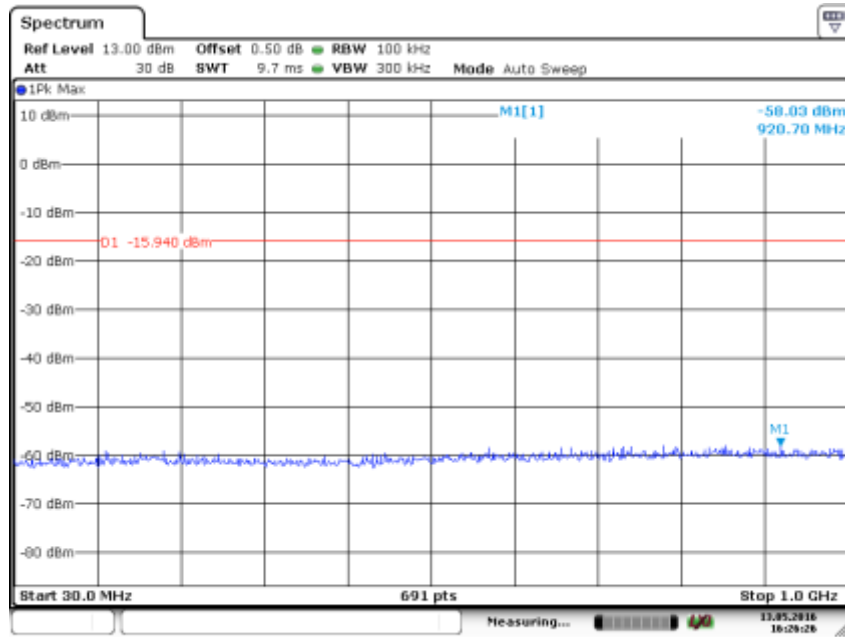


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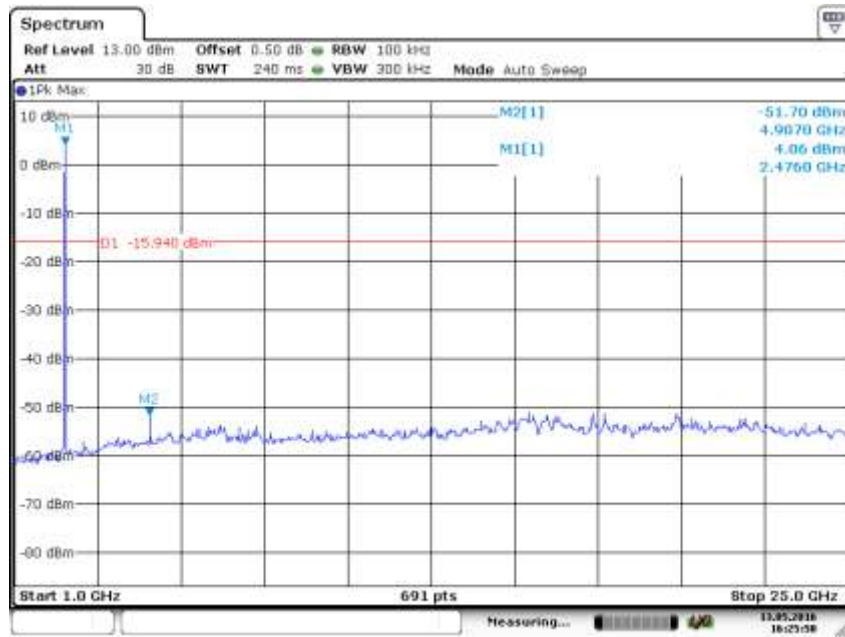


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2462MHz



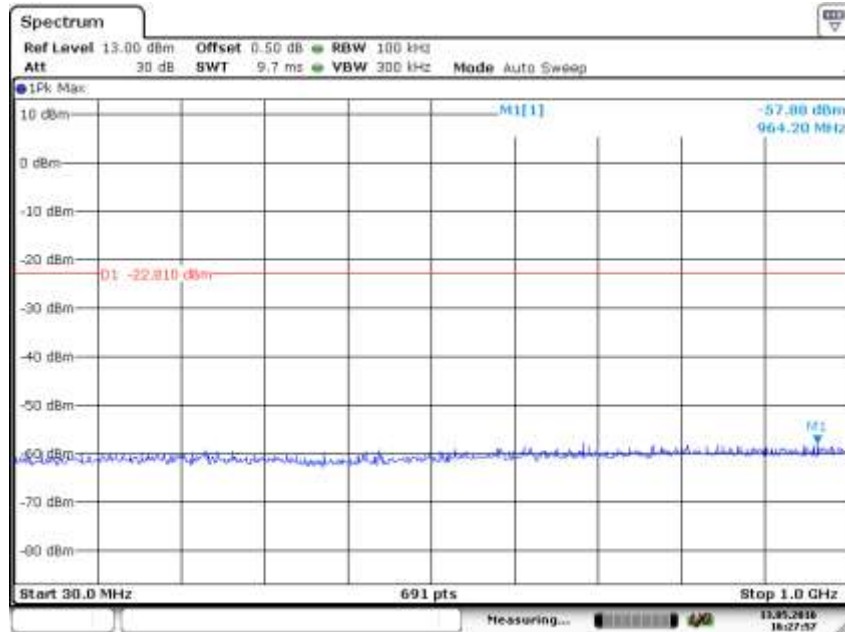
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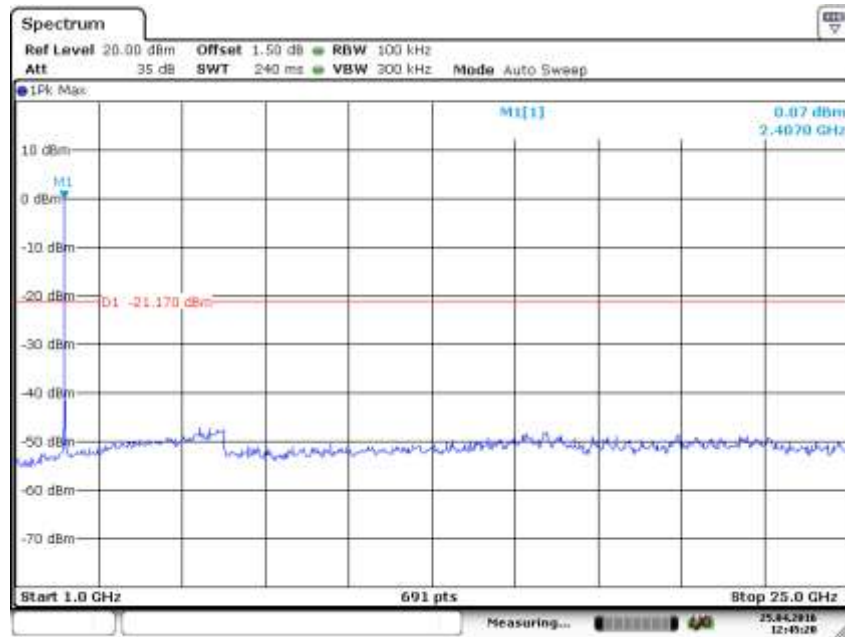
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802.11 G

2412MHz

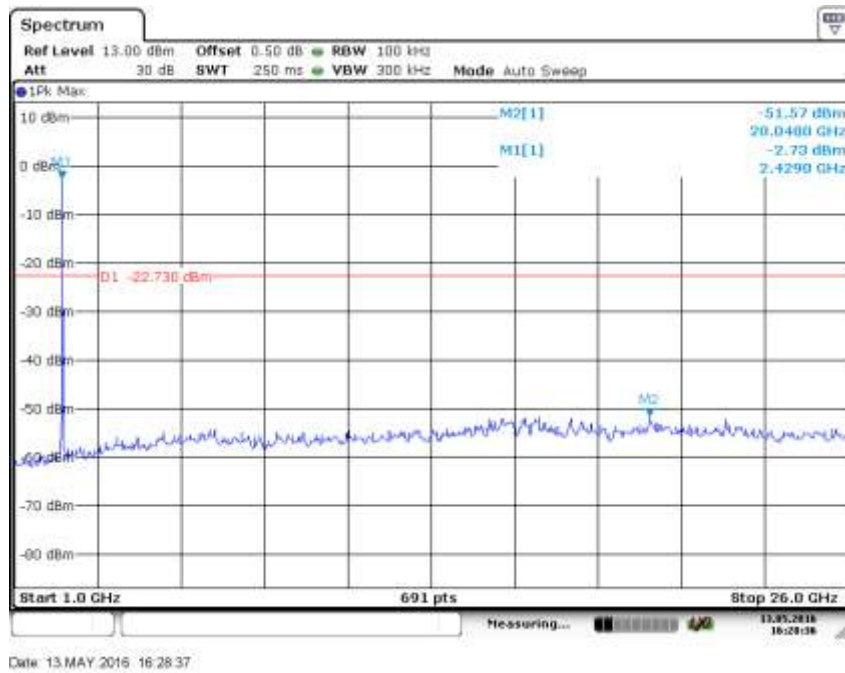
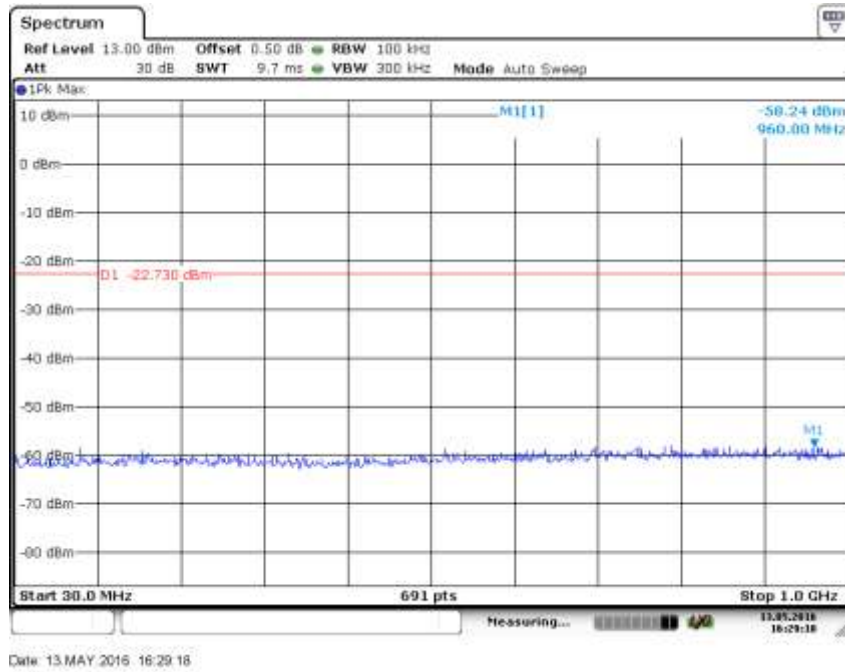


Date: 13 MAY 2016 16:27:57

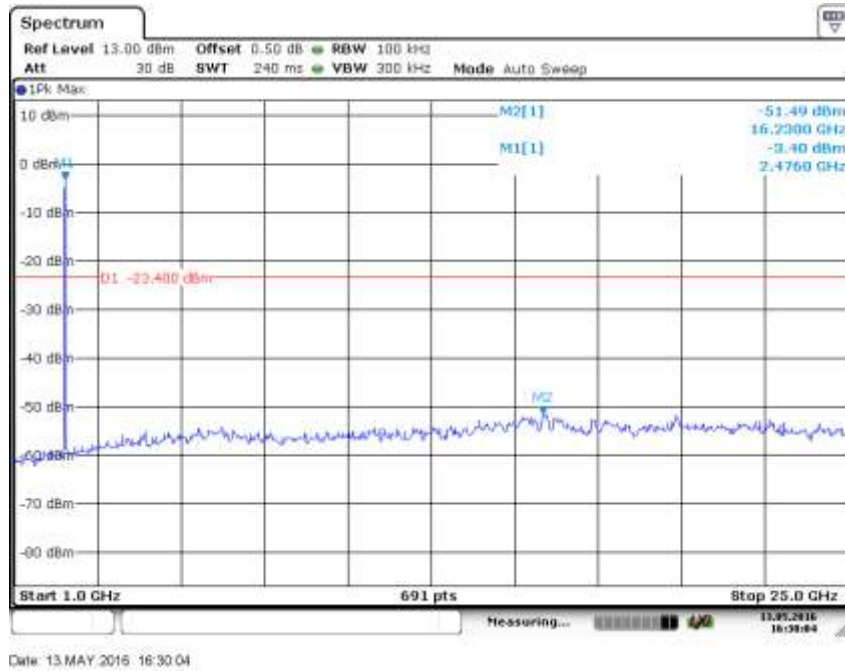
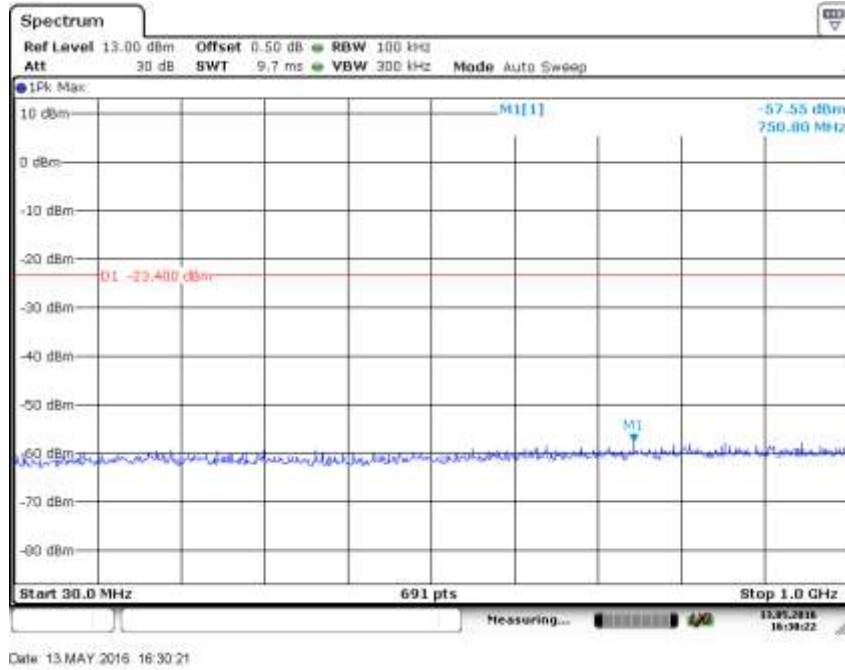


Date: 25 APR 2016 12:45:21

2437MHz

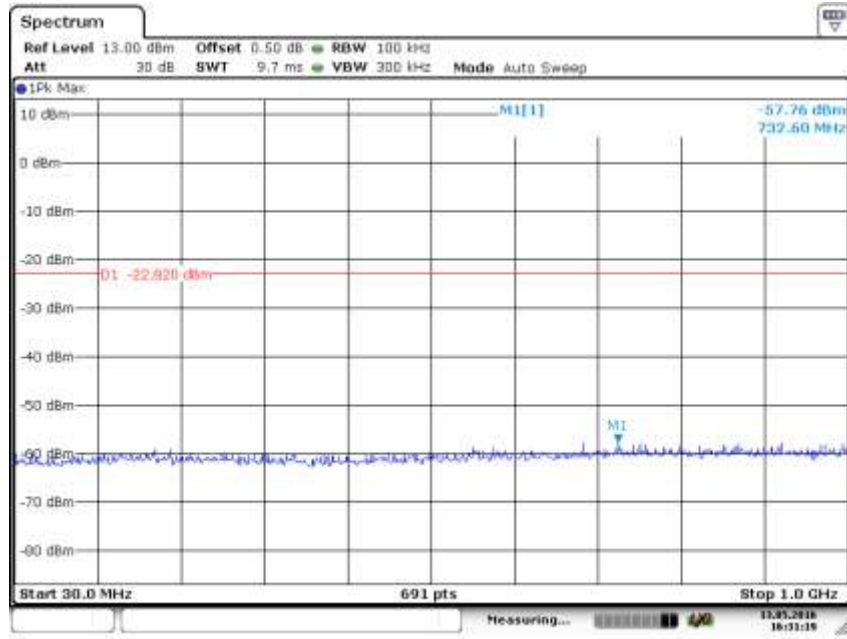


2462MHz

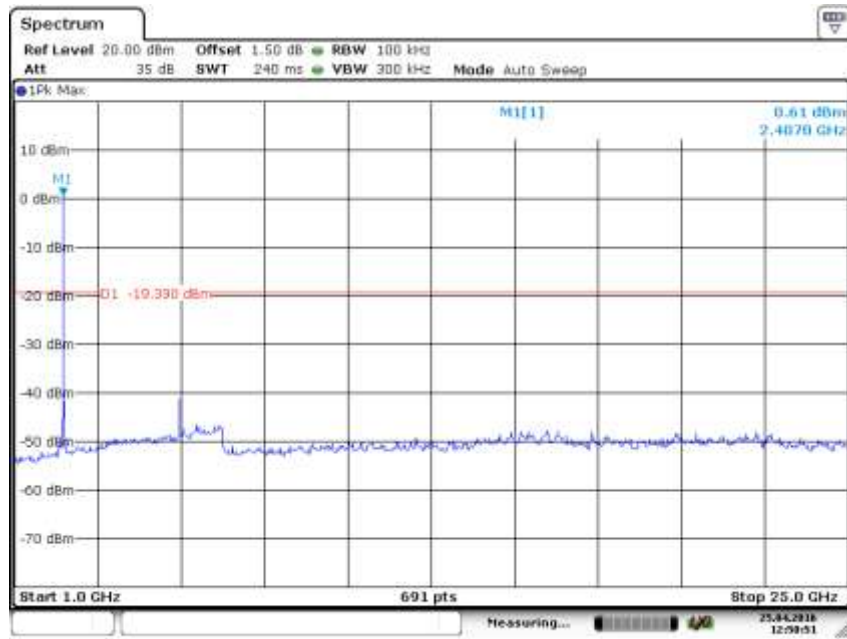


802.11 N20

2412MHz

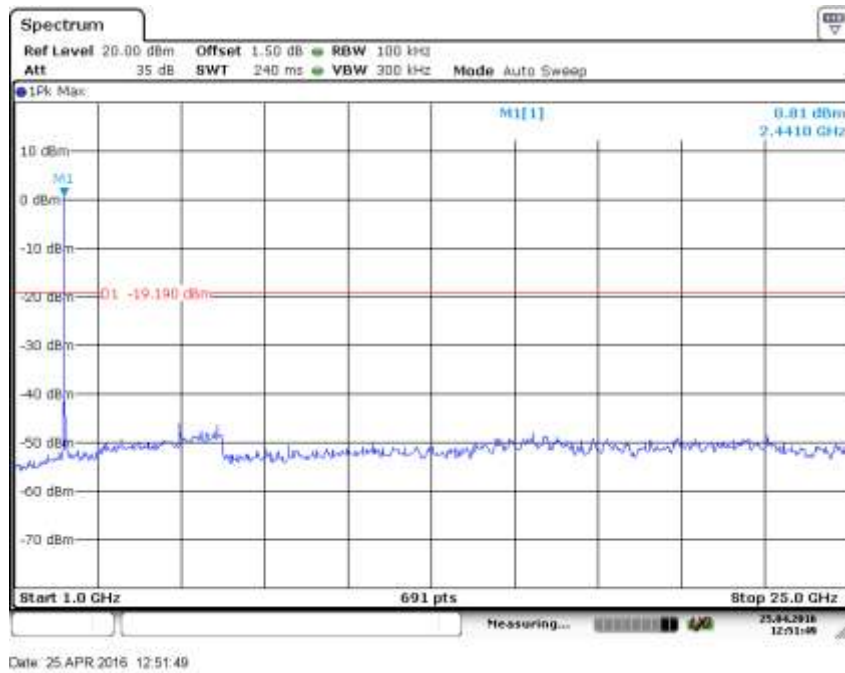
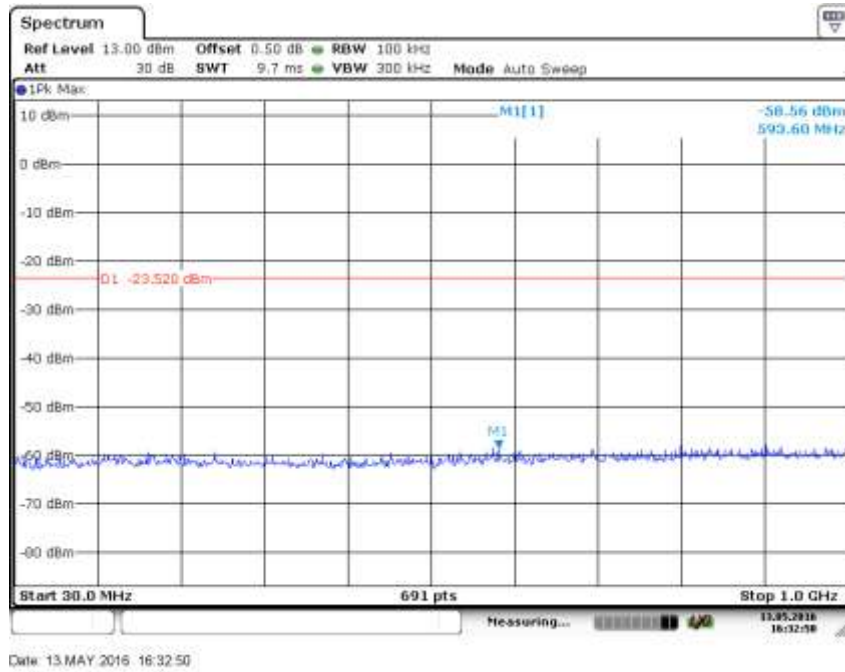


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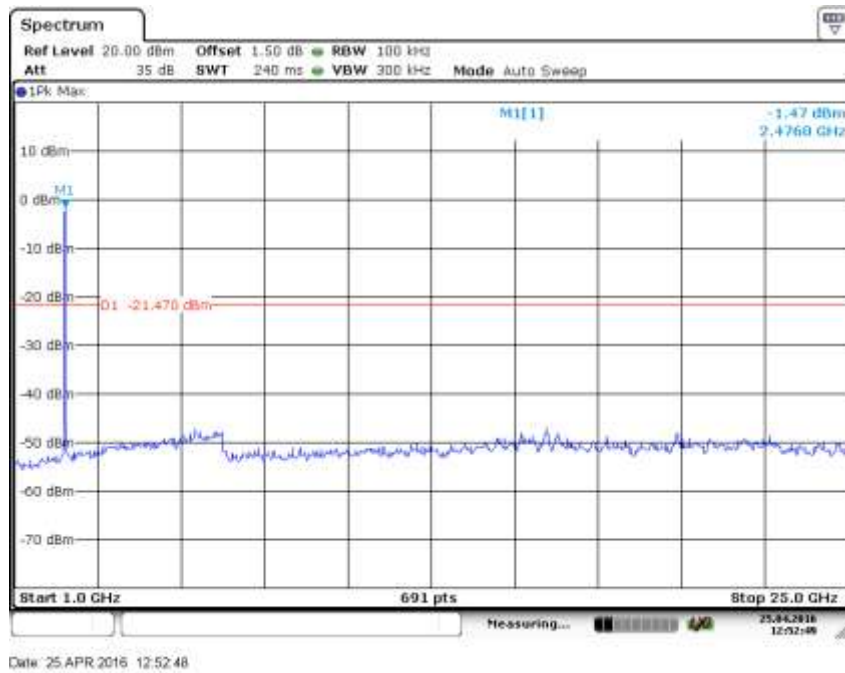
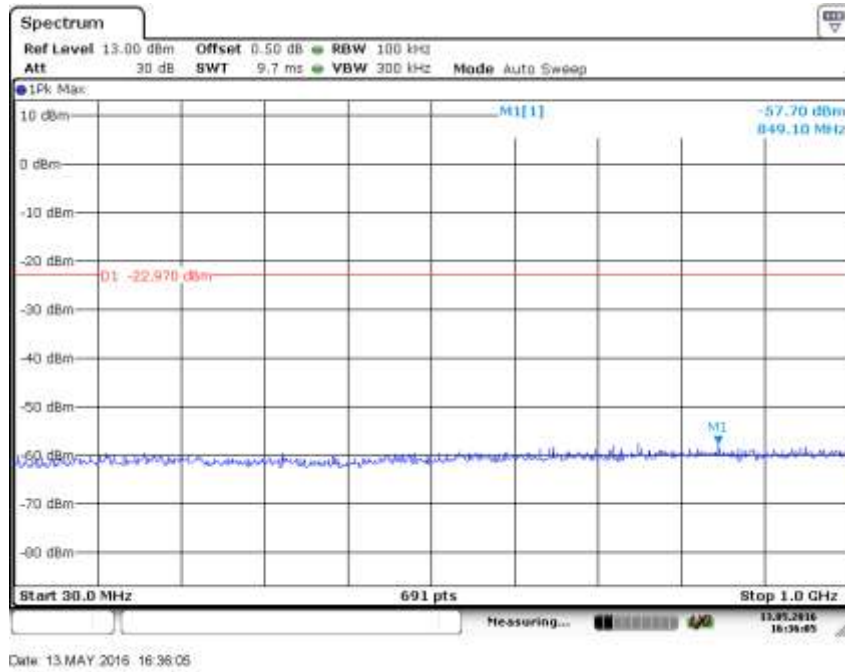


Date: 25.APR.2016 12:50:51

2437MHz



2462MHz



9.6 Band edge

Test Method

- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

According to §15.247 (d), band edge limit as below:

Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

802.11 B

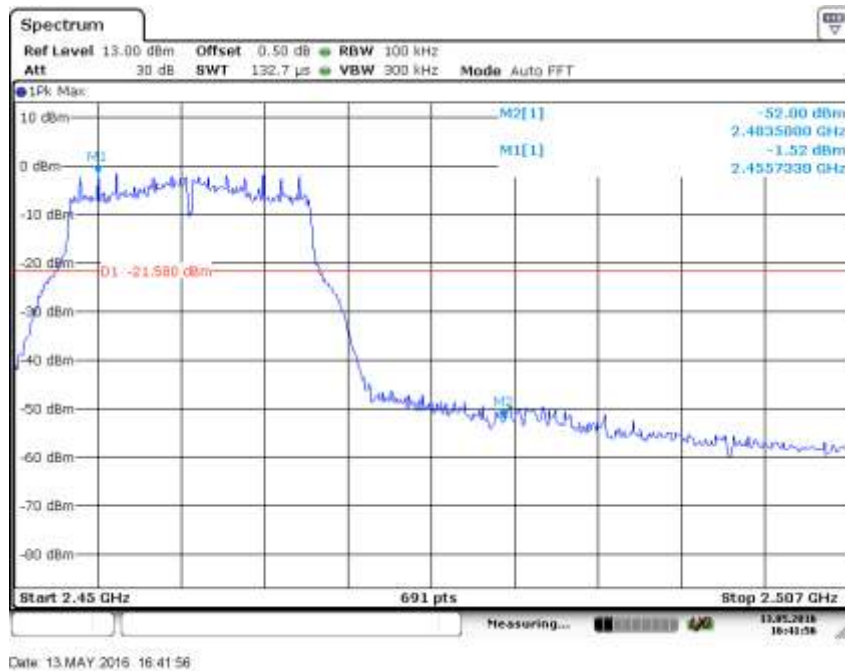
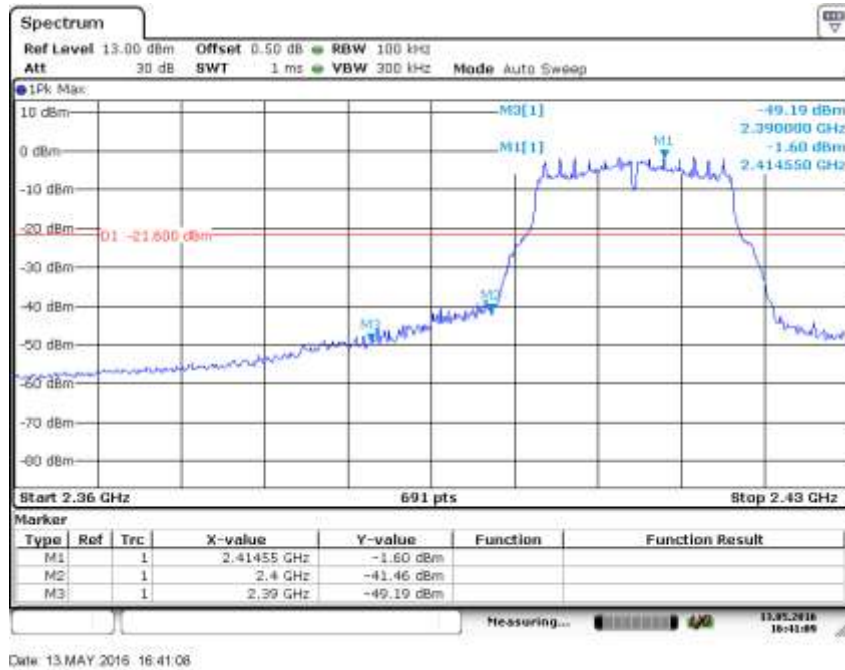


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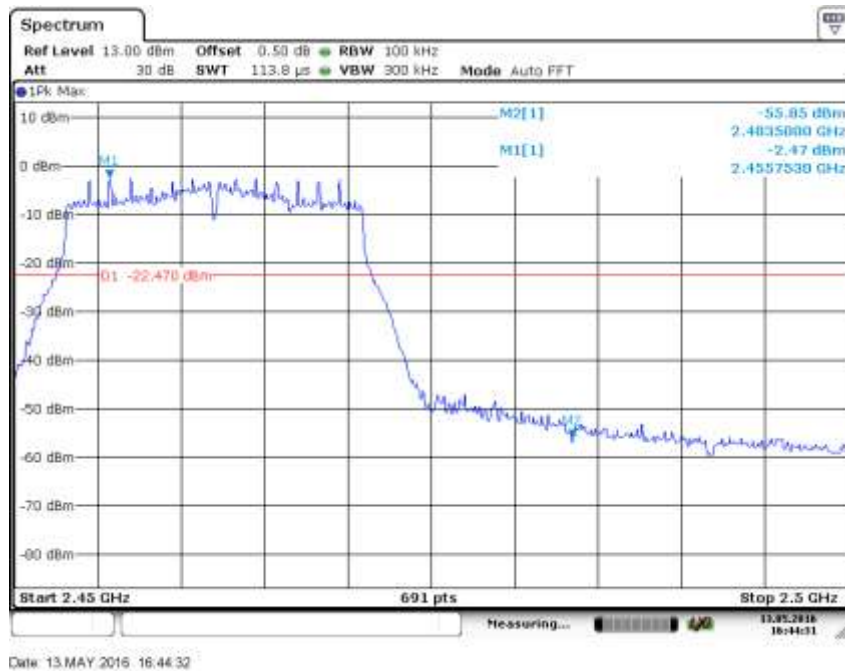
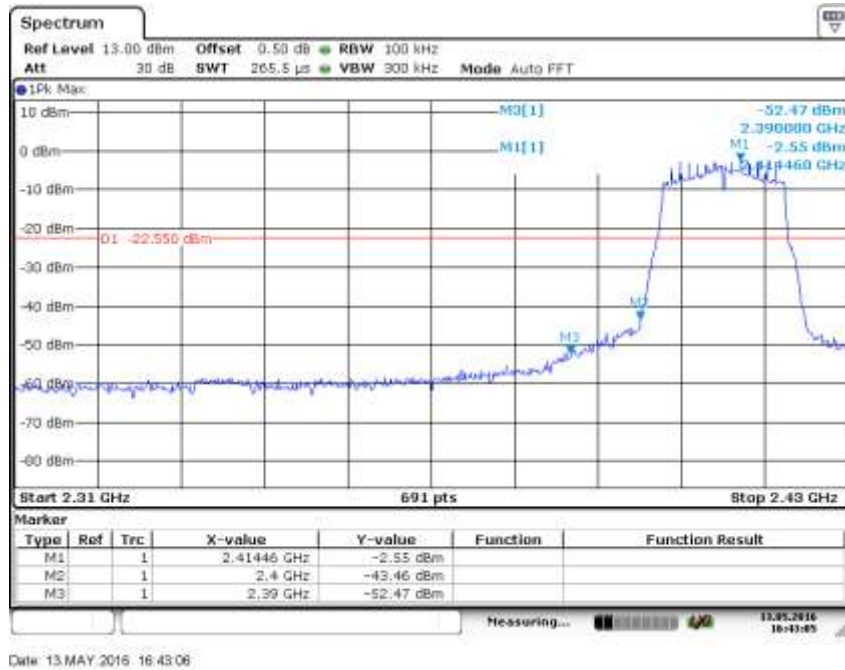


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802.11 G



802.11 N20



9.7 Spurious radiated emissions for transmitter

Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-2009 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{duty cycle}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limit

According to part 15.247(d), the radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB μ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

802.11B Modulation 2412MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dB μ V/m	dB		
72.68	20.66	Horizontal	40.00	19.34	QP	Pass
139.02	28.99	Horizontal	43.50	14.51	QP	Pass
257.14	25.64	Horizontal	46.00	20.36	QP	Pass
959.96	34.06	Horizontal	46.00	11.94	QP	Pass
72.20	26.53	Vertical	40.00	13.47	QP	Pass
146.78	23.91	Vertical	43.50	19.59	QP	Pass
257.14	27.63	Vertical	46.00	18.37	QP	Pass
*2390	48.83	Horizontal	74	25.17	PK	Pass
*2483.5	---	Horizontal	74	---	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	47.96	Vertical	74	26.04	PK	Pass
*2483.5	---	Vertical	74	---	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11B Modulation 2437MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dB μ V/m	dB		
*2390	---	Horizontal	74	---	PK	Pass
*2483.5	---	Horizontal	74	---	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	---	Vertical	74	---	PK	Pass
*2483.5	---	Vertical	74	---	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11B Modulation 2462MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dB μ V/m	dB		
*2390	---	Horizontal	74	---	PK	Pass
*2483.5	53.92	Horizontal	74	20.08	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	---	Vertical	74	---	PK	Pass
*2483.5	47.71	Vertical	74	26.29	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11g Modulation 2412MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dB μ V/m	dB		
*2390	52.38	Horizontal	74	21.62	PK	Pass
*2483.5	---	Horizontal	74	---	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	43.69	Vertical	74	30.31	PK	Pass
*2483.5	---	Vertical	74	---	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11g Modulation 2437MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dB μ V/m	dB		
*2390	---	Horizontal	74	---	PK	Pass
*2483.5	---	Horizontal	74	---	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	---	Vertical	74	---	PK	Pass
*2483.5	---	Vertical	74	---	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11g Modulation 2462MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dB μ V/m	dB		
*2390	---	Horizontal	74	---	PK	Pass
*2483.5	49.65	Horizontal	74	24.35	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	---	Vertical	74	---	PK	Pass
*2483.5	43.78	Vertical	74	30.22	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11n-HT20 Modulation 2412MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dBuV/m	dB		
*2390	44.29	Horizontal	74	29.71	PK	Pass
*2483.5	---	Horizontal	74	---	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	38.97	Vertical	74	35.03	PK	Pass
*2483.5	---	Vertical	74	---	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11n-HT20 Modulation 2437MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dBuV/m	dB		
*2390	---	Horizontal	74	---	PK	Pass
*2483.5	---	Horizontal	74	---	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	---	Vertical	74	---	PK	Pass
*2483.5	---	Vertical	74	---	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

802.11n-HT20 Modulation 2462MHz Test Result

Frequency	Emission Level	Polarization	Limit	Margin	Detector	Result
MHz	dBuV/m		dBuV/m	dB		
*2390	---	Horizontal	74	---	PK	Pass
*2483.5	48.25	Horizontal	74	25.75	PK	Pass
3000-12750	---	Horizontal	74	---	PK	Pass
*2390	---	Vertical	74	---	PK	Pass
*2483.5	47.38	Vertical	74	26.62	PK	Pass
3000-12750	---	Vertical	74	---	PK	Pass

Remark:

- (1) QP Emission Level= Antenna Factor +Cable Loss + Reading
 PK Emission Level= Antenna Factor +Cable Loss - Amp. factor + Reading
 AV Emission Level= PK Emission Level+20log(dutycycle)
- (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) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.
- (4) We test all modes and only the worse case recorded in the report.

10 Test Equipment List

List of Test Instruments

	DESCRIPTION	MANUFACTURE R	MODEL NO.	SERIAL NO.	CAL. DUE DATE
CE	EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2016-7-24
	LISN	Rohde & Schwarz	ENV4200	100249	2016-7-24
	LISN	Rohde & Schwarz	ENV216	100326	2016-7-24
	ISN	Rohde & Schwarz	ENY81	100177	2016-7-24
	ISN	Rohde & Schwarz	ENY81-CA6	101664	2016-7-24
	High Voltage Probe	Rohde & Schwarz	TK9420(VT9420)	9420-58	2016-7-24
	RF Current Probe	Rohde & Schwarz	EZ-17	100816	2016-7-24
	Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A
RE	EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2016-7-24
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2016-8-14
	Horn Antenna	Rohde & Schwarz	HF907	102294	2016-7-24
	Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2016-7-24
	3m Semi-anechoic chamber	TDK	9X6X6	----	2019-5-29
	Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A
Conducted	Signal Analyzer	Rohde & Schwarz	FSV40	101030	2016-7-24

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV216 or ENV4200)	3.50dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.83dB; Vertical: 4.91dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-18000MHz	Horizontal: 4.89dB; Vertical: 4.88dB;
Uncertainty for Conducted RF test with TS 8997	Power level test involved: 2.04dB Frequency test involved: 1.1×10^{-7}

THE END