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VERITAS

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Test Report

Report No	EQ1060-1
Client	Udisense Inc. DBA: Nanit
Address	244 Fifth Avenue Suite 2702 New York, NY 10001
Phone	(917)-397-6528
Items tested	Smart Baby Monitor
FCC ID	2AIWVN101
IC	21649-N101
Model / HVIN	N101
Equipment Type	Digital Transmission System
Equipment Code	DTS
Emission Designator	36M2D1D
FCC/IC Rule Parts	CFR Title 47 FCC Part 15.247 ISED Canada Radio Standards Specification RSS-247 Issue 1
Test Dates	Jul 14, 18-22, Aug 10, 16, 18, 26, 29, 2016
Results	As detailed within this report
Prepared by	 Yuris Faziloglu – Sr. EMC Engineer
Authorized by	 Christopher Reynolds – EMC Supervisor
Issue Date	<u>10/20/2016</u>
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 44 of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Form Final Report REV 7-20-07 (DW)



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Summary

This test report supports an application for certification of a transmitter operating pursuant to CFR Title 47 FCC Part 15.247 and ISED Canada Radio Standards Specification RSS-247 Issue 1. The product is the “Smart Baby Monitor” (Model: N101). It is a digitally modulated transmitter that operates in the following frequency ranges:

2412MHz – 2462MHz for 802.11b/g/n(HT20)

2422MHz – 2452MHz for 802.11n(HT40)

It has an internal patch antenna with 4dBi gain in the 2.4GHz band.

The product has Bluetooth Low Energy (BLE) and 802.11abgn capabilities as described in EUT Configuration section on page 5. The product is not capable of simultaneous transmission of different signals as they all have to be transmitted over the same antenna. Transmissions from different modes can only occur one at a time. This report lists the results from the 2.4GHz 802.11 modes only.

We found that the product met the above requirements without modification. Test samples were received in good condition.

Release Control Record
Issue No. Reason for change
1 Original Release

Date Issued
October 20, 2016

Test Methodology

All testing was performed according to the following rules/standards/procedures/documents;

CFR Title 47 FCC Part 15.247

ISED Canada Radio Standards Specification RSS-247 Issue 1

ISED Canada Radio Standards Specification RSS-Gen Issue 4

FCC KDB 558074 D01 DTS Measurement Guidance v03r05

ANSI C63.10-2013.

Radiated emissions were maximized by rotating the device around 3 orthogonal planes (X, Y and Z) as well as varying the test antenna's height and polarity. Only worst case results are presented in this report. EUT has an internal antenna that cannot be maximized separately.

RF conducted measurements were performed at the antenna port on 3 channels as follows:

- 2412 MHz: Low Channel (1) for 802.11b/g/n(HT20)
- 2422 MHz: Low Channel (3) for 802.11n(HT40)
- 2437 MHz: Mid Channel (6) for 802.11b/g/n(HT20)/n(HT40)
- 2452 MHz: High Channel (9) for 802.11n(HT40)
- 2462 MHz: High Channel (11) for 802.11b/g/n(HT20)

EUT is supplied with an external power supply

Brand Name: nanit

Model: S010WU0500200

Input: 100-240VAC 50/60Hz, 400mA

Output: 5VDC, 2000mA

Accordingly AC line conducted emissions testing was performed.

Following bandwidths were used during AC line conducted and radiated spurious emissions tests:

Frequency	RBW	VBW
150kHz-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz



Product Tested - Configuration Documentation

EUT Configuration																	
Work Order:	Q1060																
Company:	Udisense Inc. DBA: Nanit																
Company Address:	244 Fifth Avenue Suite 2702 New York, NY 10001																
Contact:	Amnon Karni																
EUT:	MN			SN			For										
	N101			N101AU2616004			Radiated and AC line conducted testing										
	N101			N101AU2616008			Conducted antenna port testing										
EUT Description:	Smart Baby Monitor																
EUT Max Frequency:	800MHz (associated digital circuitry)																
EUT Min Frequency:	32.768kHz (associated digital circuitry)																
EUT TX Frequency:	802.11bgn(HT20) : 2412MHz - 2462MHz, 802.11n(HT40) : 2422MHz - 2452MHz 802.11an(HT20) : 5180MHz - 5240MHz, 5260MHz - 5320MHz, 5500MHz - 5700MHz, 5745MHz - 5825MHz 802.11n(HT40) : 5190MHz - 5230MHz, 5270MHz - 5310MHz, 5510MHz - 5670MHz, 5755MHz - 5795MHz Bluetooth Low Energy : 2402MHz - 2480MHz																
Support Equipment	MN					SN											
Lenovo Laptop	ThinkPad Edge E550					PF0C8YN0											
TP-LINK AC1750 Dual Band Wireless Router	Archer C7 (US)					2163130004184											
Port Label	Port Type	# ports	# populated	cable type	shielded	ferrites	length (m)	in/out	under test	comment							
Power	USB Type-C	1	1	USB Type-C to USB Type-A	Yes	No	2m	in	yes	Used for power during radiated and AC line conducted testing. Used for power and test mode setup for conducted antenna port testing.							
Software Operating Mode Description:																	
For 802.11b/g/n(HT20): EUT is set to transmit at Low (2412MHz), Middle (2437MHz) and High (2462MHz) channels. For 802.11n(HT40): EUT is set to transmit at Low (2422MHz), Middle (2437MHz) and High (2452MHz) channels.																	



Statement of Conformity

EUT has shown compliance to the following:

RSS-GEN	RSP-100	RSS 247	Part 15	Comments
6.3			15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
	3.1		15.19	The label is shown in the label exhibit.
	4		15.21	Information to the user is shown in the instruction manual exhibit.
			15.27	No special accessories are required for compliance.
3, 6.1			15.31	The EUT was tested in accordance with the measurement standards in this section.
6.13			15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
8.1			15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
8.3			15.203	EUT has a patch antenna internal to the device (4dBi gain in the 2.4GHz band). The antenna is connected to the PCB via an AMC (Amphenol Micro Coaxial) connector which is considered unique.
8.10			15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable
8.8			15.207	The unit complies with the requirements of 15.207
			15.247	The unit complies with the requirements of 15.247
		RSS 247		The unit complies with the requirements of RSS-247
6.6				Occupied Bandwidth measurements performed.



Test Results

DTS Bandwidth

Limit: The minimum 6 dB bandwidth shall be at least 500 kHz. [15.247(a)(2)]

MEASUREMENTS / RESULTS

6dB Bandwidth											
Date: Jul-18-2016, Jul-19-2016	Company: Udisense Inc. DBA: Nanit				Work Order: Q1060						
Engineer: Yunus Faziloglu	EUT: Smart Baby Monitor (Model: N101)				EUT Operating Voltage/Frequency: 5VDC						
Jul 18 2016	Humidity: 45%				Pressure: 1005mbar						
Jul 19 2016	Humidity: 46%				Pressure: 1002mbar						
Frequency Range: 2412-2462 MHz			Measurement Type:	Conducted							
Notes: Powered from support laptop USB port			Measurement Method:	FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 8.1							
All data rates measured for each 802.11 mode. Only the highest readings are reported.											
Mode	Data Rate Mbps	Frequency (MHz)	Reading (MHz)			Limit (MHz)					
			2412.0	7.794		≥ 0.5					
802.11b	11	2437.0	8.612			≥ 0.5					
		2462.0	7.796			≥ 0.5					
		2412.0	16.313			≥ 0.5					
802.11g	54	2437.0	16.325			≥ 0.5					
		2462.0	16.378			≥ 0.5					
		2412.0	17.595			≥ 0.5					
802.11n (HT20)	65	2437.0	17.601			≥ 0.5					
		2462.0	17.603			≥ 0.5					
		2422.0	35.090			≥ 0.5					
802.11n (HT40)	135	2437.0	35.090			≥ 0.5					
		2452.0	35.092			≥ 0.5					
Test Site: Wireless Test Room		Cable 1: UFL to SMA adapter		Attenuator A2121							
Analyzer: A2200											
Copyright Curtis-Straus LLC 2000											

Rev. 7/4/2016

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cal	Calibration Due	Calibrated on
FSV40 Signal/Spectrum Analyzer	10Hz-40GHz	FSV40	R&S	101551	2200	I	6/1/2017	6/1/2016
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cal	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cal	Calibration Due	Calibrated on	
Weather Clock (Pressure Only) TH A#2085	BA928 HTC-1	Oregon Scientific HDE	C3166-1 2085	831 II	I II	4/28/2018 4/5/2017	4/28/2016 4/5/2016	

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Plots

Continued on next page.

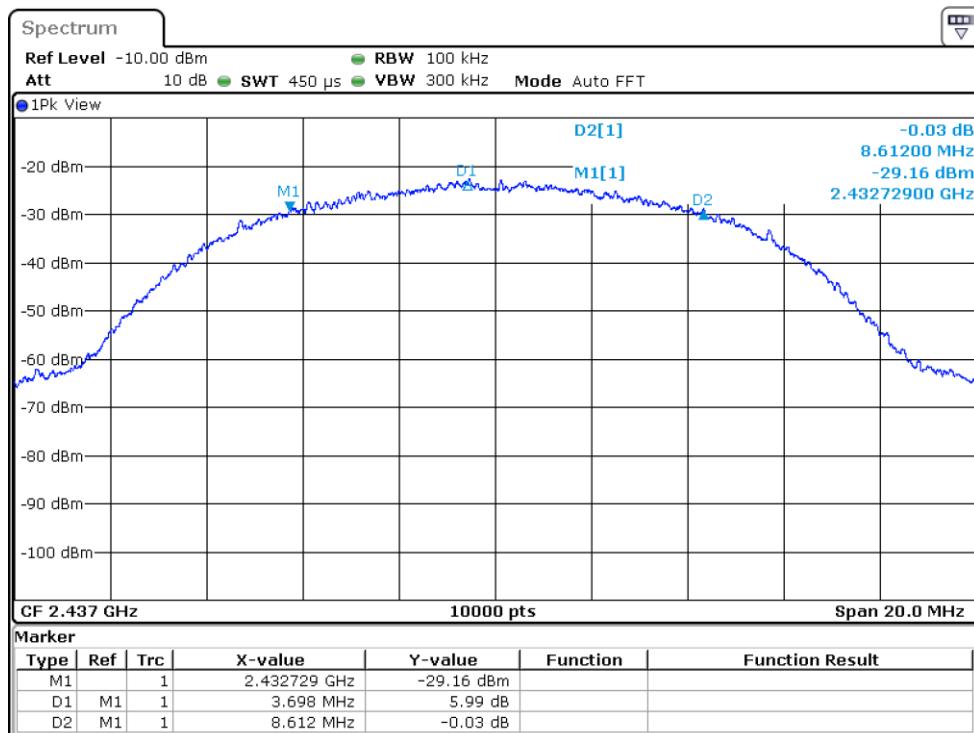


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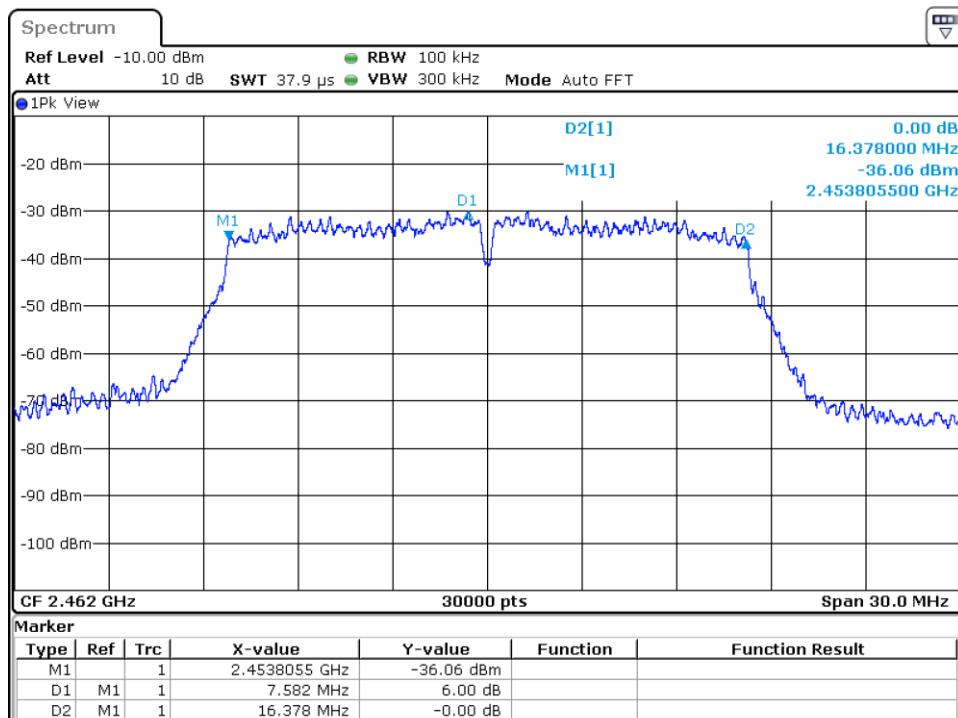
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Testing Cert. No. 1627-01



Date: 18.JUL.2016 11:56:10

6dB Bandwidth 802.11b 11Mbps 2437MHz



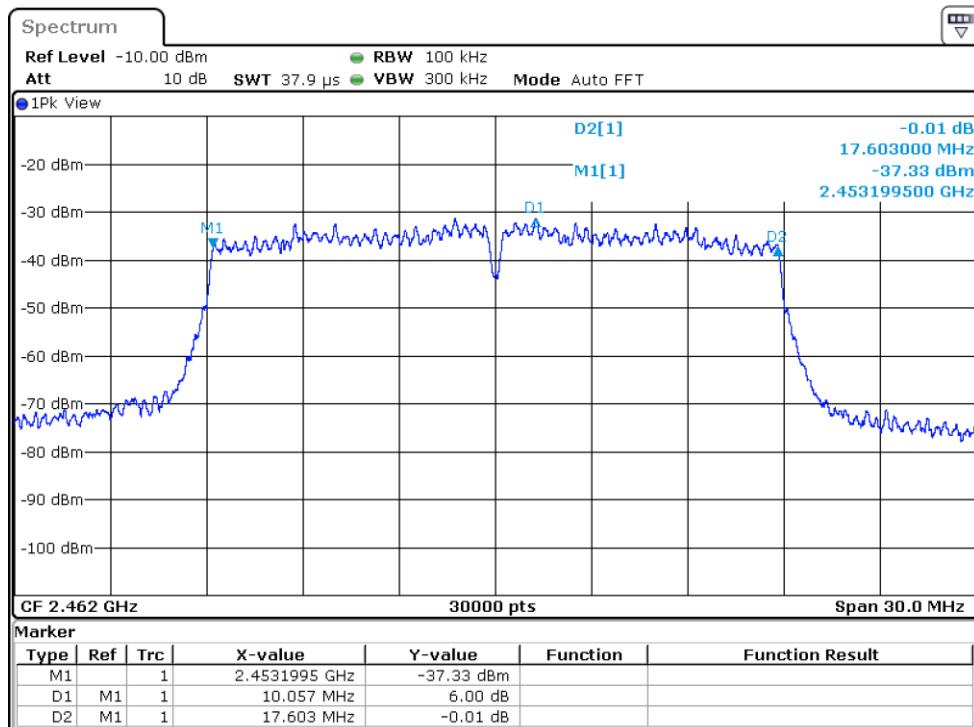
Date: 19.JUL.2016 12:07:31

6dB Bandwidth 802.11g 54Mbps 2462MHz



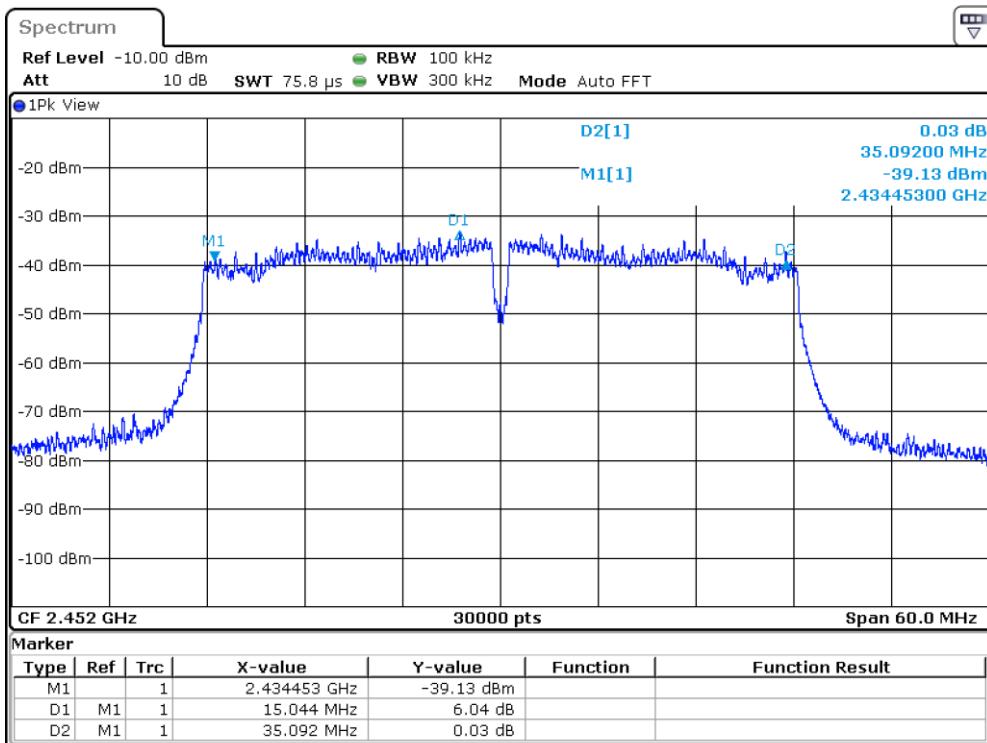
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Date: 19.JUL.2016 14:37:50

6dB Bandwidth 802.11n (HT20) 65Mbps 2462MHz



Date: 19.JUL.2016 15:48:02

6dB Bandwidth 802.11n (HT40) 135Mbps 2452MHz



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Output Power

Limit: 1 Watt Peak Conducted Output Power [15.247(b)(3)]

Per 558074 D01 DTS Measurement Guidance v03r05 Section 9.1.2 (Peak Power Meter Method). VBW on the power sensor is larger than DTS (6dB) bandwidth of the product.

MEASUREMENTS / RESULTS

Peak Output Power										
Date: Jul-14-2016, Jul-21-2016			Company: Udisense Inc. DBA: Nanit			Work Order: Q1060				
Engineer: Yunus Faziloglu			EUT: Smart Baby Monitor (Model: N101)			EUT Operating Voltage/Frequency: 5VDC				
Jul 14 2016 Temp: 23.8°C			Humidity: 44%			Pressure: 1004mbar				
Jul 21 2016 Temp: 24°C			Humidity: 46%			Pressure: 1002mbar				
Frequency Range: 2412-2462 MHz			Measurement Type: Conducted			Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 9.1.2				
Notes: Powered from support laptop USB port										
Mode	Data Rate	Frequency	Peak Reading	Cable Loss	Attenuator Loss	Peak Output Power	Limit	Margin	Result	
	Mbps	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(Pass/Fail)	
802.11b	1	2412.0	-12.34	1.0	29.5	18.16	30.0	-11.84	Pass	
		2437.0	-12.46	1.0	29.5	18.04	30.0	-11.96	Pass	
		2462.0	-12.48	1.0	29.5	18.02	30.0	-11.98	Pass	
	2	2412.0	-12.39	1.0	29.5	18.11	30.0	-11.89	Pass	
		2437.0	-12.32	1.0	29.5	18.18	30.0	-11.82	Pass	
		2462.0	-12.37	1.0	29.5	18.13	30.0	-11.87	Pass	
	5.5	2412.0	-12.43	1.0	29.5	18.07	30.0	-11.93	Pass	
		2437.0	-12.40	1.0	29.5	18.10	30.0	-11.90	Pass	
		2462.0	-12.32	1.0	29.5	18.18	30.0	-11.82	Pass	
	11	2412.0	-12.28	1.0	29.5	18.22	30.0	-11.78	Pass	
		2437.0	-12.29	1.0	29.5	18.21	30.0	-11.79	Pass	
		2462.0	-12.17	1.0	29.5	18.33	30.0	-11.67	Pass	
802.11g	6	2412.0	-7.47	1.0	29.5	23.03	30.0	-6.97	Pass	
		2437.0	-7.46	1.0	29.5	23.04	30.0	-6.96	Pass	
		2462.0	-7.60	1.0	29.5	22.90	30.0	-7.10	Pass	
	9	2412.0	-7.53	1.0	29.5	22.97	30.0	-7.03	Pass	
		2437.0	-7.51	1.0	29.5	22.99	30.0	-7.01	Pass	
		2462.0	-7.54	1.0	29.5	22.96	30.0	-7.04	Pass	
	12	2412.0	-7.85	1.0	29.5	22.65	30.0	-7.35	Pass	
		2437.0	-7.90	1.0	29.5	22.60	30.0	-7.40	Pass	
		2462.0	-8.08	1.0	29.5	22.42	30.0	-7.58	Pass	
	18	2412.0	-7.88	1.0	29.5	22.62	30.0	-7.38	Pass	
		2437.0	-8.20	1.0	29.5	22.30	30.0	-7.70	Pass	
		2462.0	-8.12	1.0	29.5	22.38	30.0	-7.62	Pass	
	24	2412.0	-8.05	1.0	29.5	22.45	30.0	-7.55	Pass	
		2437.0	-7.97	1.0	29.5	22.54	30.0	-7.47	Pass	
		2462.0	-8.20	1.0	29.5	22.30	30.0	-7.70	Pass	
	36	2412.0	-8.00	1.0	29.5	22.50	30.0	-7.50	Pass	
		2437.0	-7.97	1.0	29.5	22.53	30.0	-7.47	Pass	
		2462.0	-8.12	1.0	29.5	22.38	30.0	-7.62	Pass	
	48	2412.0	-8.10	1.0	29.5	22.40	30.0	-7.60	Pass	
		2437.0	-7.99	1.0	29.5	22.51	30.0	-7.49	Pass	
		2462.0	-8.28	1.0	29.5	22.22	30.0	-7.78	Pass	
	54	2412.0	-7.89	1.0	29.5	22.61	30.0	-7.39	Pass	
		2437.0	-8.01	1.0	29.5	22.49	30.0	-7.51	Pass	
		2462.0	-8.13	1.0	29.5	22.37	30.0	-7.63	Pass	

Test Site: Wireless Test Room

Cable: UFL to SMA adapter

Power Sensor: Boonton A#2108

Peak Output Power (dBm) = Peak Reading (dBm) + Cable Loss (dB) + Attenuator Loss (dB)

Attenuator A2121



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Testing Cert. No. 1627-01

Peak Output Power

Date: Jul-21-2016 Engineer: Yunus Faziloglu Temp: 24°C Frequency Range: 2412-2462 MHz Notes: Powered from support laptop USB port			Company: Udisense Inc. DBA: Nanit EUT: Smart Baby Monitor (Model: N101) Humidity: 46% Pressure: 1002 mBar Measurement Type: Conducted Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 9.1.2			Work Order: Q1060 EUT Operating Voltage/Frequency: 5VDC			
Mode	Data Rate	Frequency	Peak Reading	Cable Loss	Attenuator Loss	Peak Output Power	Limit	Margin	Result
	Mbps	(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(Pass/Fail)
802.11n (HT20)	6.5	2412.0	-8.07	1.0	29.5	22.43	30.0	-7.57	Pass
		2437.0	-8.16	1.0	29.5	22.34	30.0	-7.66	Pass
		2462.0	-8.22	1.0	29.5	22.28	30.0	-7.72	Pass
	13	2412.0	-8.49	1.0	29.5	22.01	30.0	-7.99	Pass
		2437.0	-8.54	1.0	29.5	21.96	30.0	-8.04	Pass
		2462.0	-8.86	1.0	29.5	21.64	30.0	-8.36	Pass
	19.5	2412.0	-8.40	1.0	29.5	22.10	30.0	-7.90	Pass
		2437.0	-8.48	1.0	29.5	22.02	30.0	-7.98	Pass
		2462.0	-8.72	1.0	29.5	21.78	30.0	-8.22	Pass
	26	2412.0	-8.56	1.0	29.5	21.95	30.0	-8.06	Pass
		2437.0	-8.60	1.0	29.5	21.90	30.0	-8.10	Pass
		2462.0	-8.78	1.0	29.5	21.72	30.0	-8.28	Pass
	39	2412.0	-8.34	1.0	29.5	22.16	30.0	-7.84	Pass
		2437.0	-8.54	1.0	29.5	21.96	30.0	-8.04	Pass
		2462.0	-8.72	1.0	29.5	21.78	30.0	-8.22	Pass
	52	2412.0	-8.22	1.0	29.5	22.28	30.0	-7.72	Pass
		2437.0	-8.28	1.0	29.5	22.22	30.0	-7.78	Pass
		2462.0	-8.46	1.0	29.5	22.04	30.0	-7.96	Pass
	58.5	2412.0	-8.42	1.0	29.5	22.08	30.0	-7.92	Pass
		2437.0	-8.38	1.0	29.5	22.13	30.0	-7.88	Pass
		2462.0	-8.51	1.0	29.5	21.99	30.0	-8.01	Pass
	65	2412.0	-8.43	1.0	29.5	22.07	30.0	-7.93	Pass
		2437.0	-8.49	1.0	29.5	22.01	30.0	-7.99	Pass
		2462.0	-8.64	1.0	29.5	21.86	30.0	-8.14	Pass
802.11n (HT40)	13.5	2422.0	-8.10	1.0	29.5	22.40	30.0	-7.60	Pass
		2437.0	-8.27	1.0	29.5	22.23	30.0	-7.77	Pass
		2452.0	-8.36	1.0	29.5	22.14	30.0	-7.86	Pass
	27	2422.0	-8.07	1.0	29.5	22.43	30.0	-7.57	Pass
		2437.0	-8.09	1.0	29.5	22.41	30.0	-7.59	Pass
		2452.0	-8.16	1.0	29.5	22.34	30.0	-7.66	Pass
	40.5	2422.0	-8.29	1.0	29.5	22.21	30.0	-7.79	Pass
		2437.0	-8.22	1.0	29.5	22.28	30.0	-7.72	Pass
		2452.0	-8.24	1.0	29.5	22.26	30.0	-7.74	Pass
	54	2422.0	-8.00	1.0	29.5	22.50	30.0	-7.50	Pass
		2437.0	-7.98	1.0	29.5	22.52	30.0	-7.48	Pass
		2452.0	-8.08	1.0	29.5	22.42	30.0	-7.58	Pass
	81	2422.0	-8.18	1.0	29.5	22.32	30.0	-7.68	Pass
		2437.0	-8.30	1.0	29.5	22.20	30.0	-7.80	Pass
		2452.0	-8.50	1.0	29.5	22.00	30.0	-8.00	Pass
	108	2422.0	-8.23	1.0	29.5	22.27	30.0	-7.73	Pass
		2437.0	-8.27	1.0	29.5	22.23	30.0	-7.77	Pass
		2452.0	-8.31	1.0	29.5	22.19	30.0	-7.81	Pass
	121.5	2422.0	-8.50	1.0	29.5	22.00	30.0	-8.00	Pass
		2437.0	-8.52	1.0	29.5	21.98	30.0	-8.02	Pass
		2452.0	-8.49	1.0	29.5	22.01	30.0	-7.99	Pass
	135	2422.0	-8.30	1.0	29.5	22.20	30.0	-7.80	Pass
		2437.0	-8.28	1.0	29.5	22.23	30.0	-7.78	Pass
		2452.0	-8.36	1.0	29.5	22.14	30.0	-7.86	Pass

Test Site: Wireless Test Room

Cable: UFL to SMA adapter

Peak Output Power (dBm) = Peak Reading (dBm) + Cable Loss (dB) + Attenuator Loss (dB)

Power Sensor Boonton A#2108

Attenuator A2121



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Preamps / Couplers	Attenuators / Filters	Range	MN	Mfr	SN	Asset	Calibration Due	Calibrated on
API - 30dB 20W Attenuator		9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017
Meteorological Meters								
Weather Clock (Pressure Only)			MN	Mfr	SN	Asset	Calibration Due	Calibrated on
TH A#2085			BA928	Oregon Scientific	C3166-1	831	I	4/28/2018
			HTC-1	HDE		2085	II	4/5/2017
Power/Noise Meters								
2108 Power sensor			MN	Mfr	SN	Asset	Calibration Due	Calibrated on
			55006	Boonton	9529	2108	I	12/8/2016
								12/8/2015

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



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Radiated Spurious Emissions

LIMITS

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

Radiated emissions were maximized by rotating the device around 3 orthogonal planes (X, Y and Z) and worst case emissions observed in Z orientation. All the results below are for the worst case orientation.

No harmonics detected. Emissions found were not transmitter related and therefore they were not channel dependent.

MEASUREMENTS / RESULTS

Radiated Emissions Table							FCC Class B							
Date: 26-Aug-16		Company: Udisense Inc. DBA: Nanit			Work Order: Q1060		EUT Operating Voltage/Frequency: 120V/60Hz							
Engineer: Chris Bramley		EUT Desc: Smart Baby Monitor (Model: N101)												
Temp: 26.2°C		Humidity: 46%		Pressure: 1000mBar										
Frequency Range: 30-1000MHz							Measurement Distance: 3 m							
Notes: 802.11g 6Mbps (worst-case)							EUT Max Freq: 5825MHz							
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dB _µ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB _µ V/m)								
							Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)					
v	32.3	36.7	25.2	19.7	0.4	31.6	40.0	-8.4	Pass					
v	73.4	49.0	25.3	8.2	0.6	32.5	40.0	-7.5	Pass					
v	111.4	49.7	25.2	12.9	0.8	38.2	43.5	-5.3	Pass					
v	163.0	48.6	25.0	12.1	1.0	36.7	43.5	-6.8	Pass					
v	225.0	49.1	25.3	10.9	1.1	35.8	46.0	-10.2	Pass					
h	336.0	54.6	25.2	14.0	1.4	44.8	46.0	-1.2	Pass					
v	550.0	40.6	25.3	18.1	1.8	35.2	46.0	-10.8	Pass					
h	650.0	45.0	24.8	20.1	1.8	42.1	46.0	-3.9	Pass					
h	705.3	39.9	24.8	20.3	1.9	37.3	46.0	-8.7	Pass					
h	750.0	38.2	24.8	20.9	2.0	36.3	46.0	-9.7	Pass					
h	780.0	36.8	24.8	21.5	2.1	35.6	46.0	-10.4	Pass					
Table Result: Pass by -1.2 dB							Worst Freq: 336.0 MHz							
Test Site: EMI Chamber 1			Cable 1: Asset #2051			Cable 2: Asset #1784								
Analyzer: Rental SA#2			Preamp: Blue-Blk			Antenna: Red-Brown								
CSsoft Radiated Emissions Calculator v 1.017.169							Copyright Curtis-Straus LLC 2000							
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor														

Rev. 8/21/2016	Spectrum Analyzers / Receivers/Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
	SA #2 (1860)	9kHz-26.5 GHz	E7405A	Agilent	MY45104916	1860	I	12/23/2016	12/23/2015
	Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
	EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz		II	3/21/2017	3/21/2015
	Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
	Blue-Black	0.009-2000MHz	ZFL-1000-LN	CS	N/A	800	II	12/27/2016	12/27/2015
	Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
	Red-Brown BiLog	30-2000MHz	JB1	Sunol	A0032406	1218	I	12/4/2016	12/4/2014
	Meteorological Meters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
	Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I		4/28/2018	4/28/2016
	TH A#2080	HTC-1	HDE		2080	II		4/5/2017	4/5/2016
	Cables	Range	Mfr		Cat	Calibration Due	Calibrated on		
	Asset #1784	9kHz - 18GHz	Florida RF		II	3/7/2017	3/7/2016		
	Asset #2051	9kHz - 18GHz	Florida RF		II	3/2/2017	3/2/2016		

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



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Radiated Emissions Table

Date: 10-Aug-16		Company: Udisense Inc. DBA: Nanit EUT Desc: Smart Baby Monitor (Model:N101) Humidity: 47%								Work Order: Q1060 EUT Operating Voltage/Frequency: 120V/60Hz Pressure: 1010mBar									
Engineer: Chris Bramley Temp: 25.8°C																			
Frequency Range: 1-6GHz										Measurement Distance: 3 m									
Notes: 802.11b 11Mbps (worst case) 3 channels: 2412MHz, 2437MHz, 2462MHz										EUT Max Freq: 5825MHz									
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _µ V)	Average Reading (dB _µ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _µ V/m)	Adjusted Avg Reading (dB _µ V/m)	FCC Class B High Frequency - Peak		FCC Class B High Frequency - Average								
									Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)					
v	1350.0	39.86	34.6	19.1	28.9	2.6	52.3	47.0	74.0	-21.7	Pass	54.0	-7.0	Pass					
v, bandedge	2390.0	38.92	26.5	19.0	32.3	4.4	56.6	44.2	74.0	-17.4	Pass	54.0	-9.8	Pass					
v	4824.0	38.47	28.4	16.9	34.4	5.9	61.9	51.8	74.0	-12.1	Pass	54.0	-2.2	Pass					
v	4874.0	37.91	27.9	16.8	34.4	5.9	61.4	51.4	74.0	-12.6	Pass	54.0	-2.6	Pass					
v, bandedge	2483.5	39.29	25.1	18.9	32.4	4.3	57.1	42.9	74.0	-16.9	Pass	54.0	-11.1	Pass					
v	4924.0	39.06	29.1	16.7	34.4	6.1	62.9	52.9	74.0	-11.1	Pass	54.0	-1.1	Pass					

Table Result: Pass by -1.1 dB**Worst Freq:** 4924.0 MHz

Test Site: EMI Chamber 1	Cable 1: Asset #2051	Cable 2: Asset #1784
Analyzer: Gold	Preamp: Brown	Antenna: Blue Horn
CSsoft Radiated Emissions Calculator v 1.017.167		Copyright Curtis-Straus LLC 2000
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor		

Radiated Emissions Table

Date: 10-Aug-16		Company: Udisense Inc. DBA: Nanit								Work Order: Q1060										
Engineer: Chris Bramley		EUT Desc: Smart Baby Monitor (Model:N101)								EUT Operating Voltage/Frequency: 120V/60Hz										
Temp: 25.8°C		Humidity: 47%								Pressure: 1010mBar										
Frequency Range: 6-18GHz										Measurement Distance: 1 m										
Notes: 802.11b 11Mbps (worst case) 3 channels: 2412MHz, 2437MHz, 2462MHz										EUT Max Freq: 5825MHz										
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _µ V)	Average Reading (dB _µ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _µ V/m)	Adjusted Avg Reading (dB _µ V/m)	FCC Class B High Frequency - Peak		FCC Class B High Frequency - Average									
									Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)						
v	7236.0	36.39	23.7	16.7	35.9	8.0	63.6	50.9	83.5	-19.9	Pass	63.5	-12.6	Pass						
v	7311.0	36.23	23.8	17.0	35.9	7.7	62.8	50.4	83.5	-20.7	Pass	63.5	-13.1	Pass						
v	7386.0	36.34	23.1	17.2	36.0	7.7	62.8	49.6	83.5	-20.7	Pass	63.5	-13.9	Pass						

Table Result: Pass by -12.6 dB**Worst Freq:** 7236.0 MHz

Test Site: EMI Chamber 1	Cable 1: Asset #2051	Cable 2: Asset #1784
Analyzer: Gold	Preamp: Asset #1517	Antenna: Blue Horn
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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor		

Radiated Emissions Table

Date: 10-Aug-16		Company: Udisense Inc. DBA: Nanit								Work Order: Q1060										
Engineer: Chris Bramley		EUT Desc: Smart Baby Monitor (Model:N101)								EUT Operating Voltage/Frequency: 120V/60Hz										
Temp: 24.9°C		Humidity: 39%								Pressure: 1013mBar										
Frequency Range: 1-6GHz										Measurement Distance: 3 m										
Notes: 802.11g 6Mbps (worst case) 3 channels: 2412MHz, 2437MHz, 2462MHz										EUT Max Freq: 5825MHz										
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _µ V)	Average Reading (dB _µ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _µ V/m)	Adjusted Avg Reading (dB _µ V/m)	FCC Class B High Frequency - Peak		FCC Class B High Frequency - Average									
									Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _µ V/m)	Margin (dB)	Result (Pass/Fail)						
v	1350.0	39.86	34.6	19.1	28.9	2.6	52.3	47.0	74.0	-21.7	Pass	54.0	-7.0	Pass						
v, bandedge	2390.0	53.6	33.1	19.0	32.3	4.4	71.3	50.8	74.0	-2.7	Pass	54.0	-3.2	Pass						
v	4824.0	36.16	21.9	16.9	34.4	5.9	59.6	45.3	74.0	-14.4	Pass	54.0	-8.7	Pass						
v	4874.0	36.73	21.7	16.8	34.4	5.9	60.2	45.2	74.0	-13.8	Pass	54.0	-8.8	Pass						
v, bandedge	2483.5	51.43	29.8	18.9	32.4	4.3	69.2	47.6	74.0	-4.8	Pass	54.0	-6.4	Pass						
v	4924.0	35.28	22.0	16.7	34.4	6.1	59.1	45.8	74.0	-14.9	Pass	54.0	-8.2	Pass						

Table Result: Pass by -2.7 dB**Worst Freq:** 2390.0 MHz

Test Site: EMI Chamber 1	Cable 1: Asset #2051	Cable 2: Asset #1784
Analyzer: Gold	Preamp: Brown	Antenna: Blue Horn
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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor		



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Radiated Emissions Table

Date: 10-Aug-16		Company: Udisense Inc. DBA: Nanit EUT Desc: Smart Baby Monitor (Model:N101) Humidity: 47%								Work Order: Q1060 EUT Operating Voltage/Frequency: 120V/60Hz Pressure: 1010mBar											
Frequency Range: 6-18GHz										Measurement Distance: 1 m											
Notes: 802.11g 6Mbps (worst case)										EUT Max Freq: 5825MHz											
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Class B High Frequency - Peak	FCC Class B High Frequency - Average											
									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)							

No emissions found

Table Result: --- by --- dB **Worst Freq:** --- MHz

Test Site: EMI Chamber 1 **Cable 1:** Asset #2051 **Cable 2:** Asset #1784
Analyzer: Gold **Preamp:** Asset #1517 **Antenna:** Blue Horn

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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Radiated Emissions Table

Date: 10-Aug-16		Company: Udisense Inc. DBA: Nanit EUT Desc: Smart Baby Monitor (Model:N101) Humidity: 47%								Work Order: Q1060 EUT Operating Voltage/Frequency: 120V/60Hz Pressure: 1010mBar											
Frequency Range: 1-6GHz										Measurement Distance: 3 m											
Notes: 802.11n(HT20) 6.5Mbps (worst case) 3 channels: 2412MHz, 2437MHz, 2462MHz										EUT Max Freq: 5825MHz											
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Class B High Frequency - Peak	FCC Class B High Frequency - Average											
									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)							
v, bandedge	1350.0	39.86	34.6	19.1	28.9	2.6	52.3	47.0	74.0	-21.7	Pass	54.0	-7.0	Pass							
v, bandedge	2390.0	53.25	28.9	19.0	32.3	4.4	71.0	46.6	74.0	-3.0	Pass	54.0	-7.4	Pass							
v	4824.0	34.6	21.8	16.9	34.4	5.9	58.0	45.2	74.0	-16.0	Pass	54.0	-8.8	Pass							
v, bandedge	4974.0	33.52	21.3	16.8	34.4	5.9	57.0	44.8	74.0	-17.0	Pass	54.0	-9.2	Pass							
v	2483.5	50.51	28.1	18.9	32.4	4.3	68.3	45.9	74.0	-5.7	Pass	54.0	-8.1	Pass							
v	4924.0	33.37	21.3	16.7	34.4	6.1	57.2	45.1	74.0	-16.8	Pass	54.0	-8.9	Pass							

Table Result: Pass by -3.0 dB **Worst Freq:** 2390.0 MHz

Test Site: EMI Chamber 1 **Cable 1:** Asset #2051 **Cable 2:** Asset #1784
Analyzer: Gold **Preamp:** Brown **Antenna:** Blue Horn

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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Radiated Emissions Table

Date: 10-Aug-16		Company: Udisense Inc. DBA: Nanit EUT Desc: Smart Baby Monitor (Model:N101) Humidity: 47%								Work Order: Q1060 EUT Operating Voltage/Frequency: 120V/60Hz Pressure: 1010mBar											
Frequency Range: 1-6GHz										Measurement Distance: 1 m											
Notes: 802.11n(HT20) 6.5Mbps (worst case)										EUT Max Freq: 5825MHz											
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Class B High Frequency - Peak	FCC Class B High Frequency - Average											
									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)							

No emissions found

Table Result: --- by --- dB **Worst Freq:** --- MHz

Test Site: EMI Chamber 1 **Cable 1:** Asset #2051 **Cable 2:** Asset #1784
Analyzer: Gold **Preamp:** Brown **Antenna:** Blue Horn

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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Radiated Emissions Table

Date: Aug-16-2016		Company: Udisense Inc. DBA: Nanit EUT Desc: Smart Baby Monitor (Model:N101) Humidity: 46%								Work Order: Q1060 EUT Operating Voltage/Frequency: 120V/60Hz Pressure: 1009mbar											
Frequency Range: Bandedge										Measurement Distance: 1 m											
Notes: 802.11n(HT40) 54Mbps (worst case)										EUT Max Freq: 5825MHz											
Antenna Polarization (H/V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Class B High Frequency - Peak	FCC Class B High Frequency - Average											
									Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)							
V	2483.5	39.5	28.0	0.0	32.4	1.7	73.6	62.1	83.5	-9.9	Pass	63.5	-1.4	Pass							
H	2483.5	36.1	24.6	0.0	32.4	1.7	70.2	58.7	83.5	-13.3	Pass	63.5	-4.8	Pass							
V	2390.0	36.7	22.1	0.0	32.3	1.6	70.6	56.0	83.5	-12.9	Pass	63.5	-7.5	Pass							
H	2390.0	39.3	24.0	0.0	32.3	1.6	73.2	57.9	83.5	-10.3	Pass	63.5	-5.6	Pass							

Table Result: Pass by -1.4 dB **Worst Freq:** 2483.5 MHz

Test Site: EMI Chamber 1 **Cable 1:** EMIR-HIGH-06 **Cable 2:** --- **Cable 3:** ---
Analyzer: A2093 **Preamp:** none **Antenna:** Blue Horn **Preselector:** ---

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Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor



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Radiated Emissions Table

Date: 26-Aug-16		Company: Nanit EUT Desc: Baby Monitor Humidity: 49%								Work Order: Q1060 EUT Operating Voltage/Frequency: 5VDC Pressure: 1005mbar													
Frequency Range: 1-4GHz																							
Notes: 802.11n(HT40) 54Mbps (worst case)																							
EUT Max Freq:																							
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _{UV})	Average Reading (dB _{UV})	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _{UV} /m)	Adjusted Avg Reading (dB _{UV} /m)	FCC Class B High Frequency - Peak	FCC Class B High Frequency - Average													
									Limit (dB _{UV} /m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _{UV} /m)	Margin (dB)	Result (Pass/Fail)									
V	1350.0	25.6	16.9	0.0	28.9	2.6	57.1	48.4	74.0	-16.9	Pass	54.0	-5.6	Pass									

Table Result: Pass by -5.6 dB**Worst Freq:** 1350.0 MHz

Test Site: EMI Chamber 1

Analyzer: A2093

CSSoft Radiated Emissions Calculator v 1.017.169

Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Cable 1: Asset #1784

Preamp: none

Cable 2: Asset #2051

Antenna: Blue Horn

Cable 3: ---

Preselector: ---

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Radiated Emissions Table

Date: Aug-18-2016		Company: Udisense Inc. DBA: Nanit EUT Desc: Smart Baby Monitor (Model:N101) Humidity: 47%								Work Order: Q1060 EUT Operating Voltage/Frequency: 120V/60Hz Pressure: 1005mbar													
Frequency Range: 4-18GHz																							
Notes: 802.11n(HT40) 54Mbps (worst case) 3 channels: 2422MHz, 2437MHz, 2452MHz																							
EUT Max Freq: 5825MHz																							
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _{UV})	Average Reading (dB _{UV})	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _{UV} /m)	Adjusted Avg Reading (dB _{UV} /m)	FCC Class B High Frequency - Peak	FCC Class B High Frequency - Average													
									Limit (dB _{UV} /m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _{UV} /m)	Margin (dB)	Result (Pass/Fail)									
V	4874.0	28.6	18.4	0.0	34.4	2.7	65.7	55.5	83.5	-17.8	Pass	63.5	-8.0	Pass									
H	4874.0	26.4	16.8	0.0	34.4	2.7	63.5	53.9	83.5	-20.0	Pass	63.5	-9.6	Pass									
V	4844.0	27.7	17.4	0.0	34.4	2.7	64.8	54.5	83.5	-18.7	Pass	63.5	-9.0	Pass									
H	4844.0	28.3	18.0	0.0	34.4	2.7	65.4	55.1	83.5	-18.1	Pass	63.5	-8.4	Pass									
V	4904.0	28.9	18.6	0.0	34.4	2.7	66.0	55.7	83.5	-17.5	Pass	63.5	-7.8	Pass									
H	4904.0	26.2	16.6	0.0	34.4	2.7	63.3	53.7	83.5	-20.2	Pass	63.5	-9.8	Pass									

Table Result: Pass by -7.8 dB**Worst Freq:** 4904.0 MHz

Test Site: EMI Chamber 1

Analyzer: A2093

CSSoft Radiated Emissions Calculator v 1.017.168

Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Cable 1: EMIR-HIGH-06

Preamp: none

Cable 2: ---

Antenna: Blue Horn

Cable 3: ---

Preselector: ---

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Rev. 8/7/2016

Spectrum Analyzers / Receivers / Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gold	MXE EMI Receiver	100Hz-26.5 GHz 20Hz-26.5GHz	E4407B N9038A	Agilent	MY45113816 MY51210181	1284 2093	I I	1/13/2017 8/9/2017	1/13/2016 8/9/2016
Radiated Emissions Sites									
EMI Chamber 1									
Preamps / Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Brown		1-10GHz	CS	CS	N/A	1523	II	10/8/2016	10/8/2015
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Horn		1-18GHz	3117	ETS	157647	1861	I	2/8/2017	2/8/2015
Meteorological Meters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016	
TH A#2080		HTC-1	HDE	2080	II	4/5/2017	4/5/2016		
Cables		Range	Mfr		Cat	Calibration Due	Calibrated on		
Asset #1784		9kHz - 18GHz	Florida RF		II	3/7/2017	3/7/2016		
Asset #2051		9kHz - 18GHz	Florida RF		II	3/2/2017	3/2/2016		
REMI-High-06		1 - 26.5GHz	U-21B0707-1	TRU	II	8/14/2017	8/14/2016		

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Table

Date: 29-Aug-16		Company: Udisense Inc. DBA: Nanit EUT Desc: Smart Baby Monitor (Model:N101) Humidity: 45%								Work Order: Q1060 EUT Operating Voltage/Frequency: 120V/60Hz Pressure: 1010mbar													
Frequency Range: 18-25GHz																							
Notes: 802.11g 6Mbps (worst case)																							
EUT Max Freq: 5825MHz																							
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _{UV})	Average Reading (dB _{UV})	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _{UV} /m)	Adjusted Avg Reading (dB _{UV} /m)	FCC Class A High Frequency - Peak	FCC Class A High Frequency - Average													
									Limit (dB _{UV} /m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _{UV} /m)	Margin (dB)	Result (Pass/Fail)									
No Emissions Found																							

Table Result: --- by --- dB**Worst Freq:** --- MHz

Test Site: EMI Chamber 1

Analyzer: Gold

CSSoft Radiated Emissions Calculator v 1.017.169

Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

Cable 1: EMIR-06

Preamp: 18-26.5GHz

Cable 2: EMIR-07

Antenna: 18-26.5GHz Horn

Cable 3: ---

Preselector: ---

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Rev. 8/29/2016

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	1/13/2017	1/13/2016
Radiated Emissions Sites									
EMI Chamber 1		FCC Code	IC Code	VCCI Code	Range				
		719150	2762A-6	A-0015	1-18GHz				
Preamps /Couplers Attenuators / Filters									
HF (Yellow)		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
		18-26.5GHz	AFS4-18002650-60-8P-4	CS	467559	1266	II	3/8/2017	3/8/2016
Antennas									
HF (White) Horn		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
		18-26.5GHz	801-WLM	Waveline	758	758	III	Verify before Use	date of test
Meteorological Meters									
Weather Clock (Pressure Only)			MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
TH A#2080			BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
			HTC-1	HDE		2080	II	4/5/2017	4/5/2016
Cables				Mfr			Cat	Calibration Due	Calibrated on
REMI-High-06		Range		TRU			II	8/14/2017	8/14/2016
		1 - 26.5GHz	TRU-21B0707-120						

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



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ACREDITED
 Testing Cert. No. 1627-01

Conducted Spurious Emissions

LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB ...

[15.247(d)]

MEASUREMENTS / RESULTS

Measurements performed for all 802.11 modes and data rates. Only worst case results are shown below.

Conducted Band Edge Plots

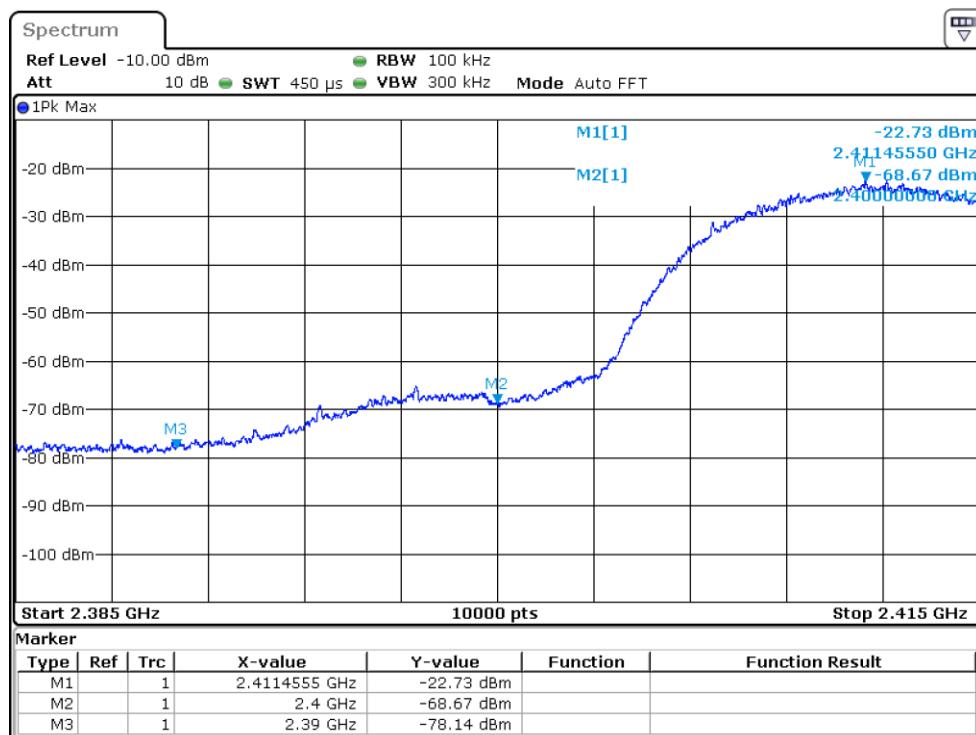
Continued on next page.



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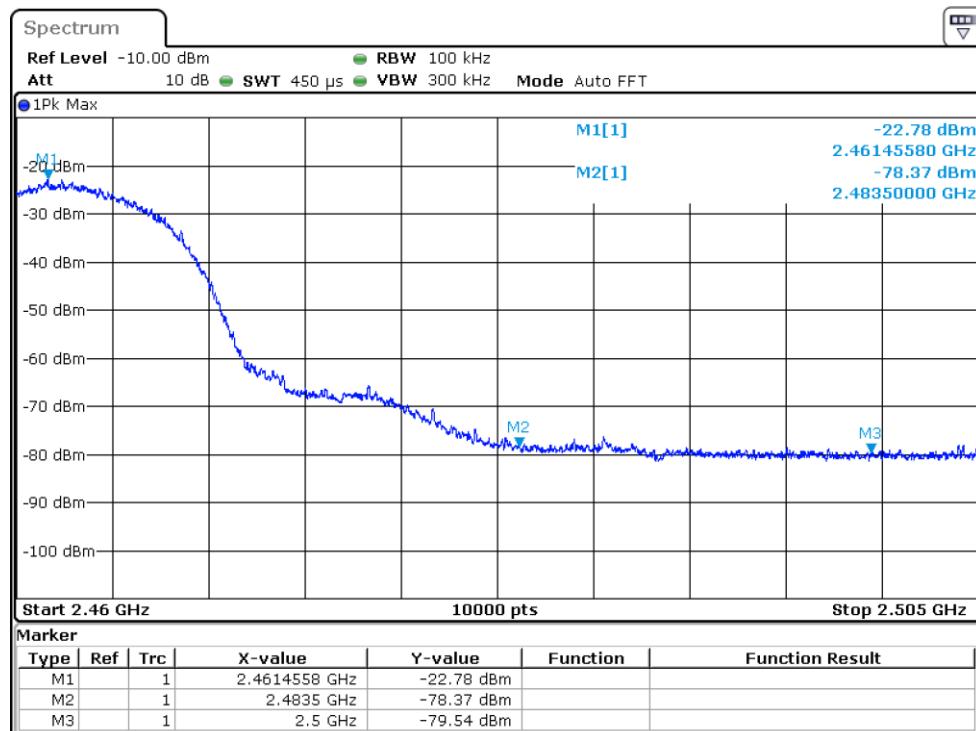


page 18 of 45



Date: 18.JUL.2016 10:24:26

Conducted Band Edge – 802.11b 11Mbps 2412MHz



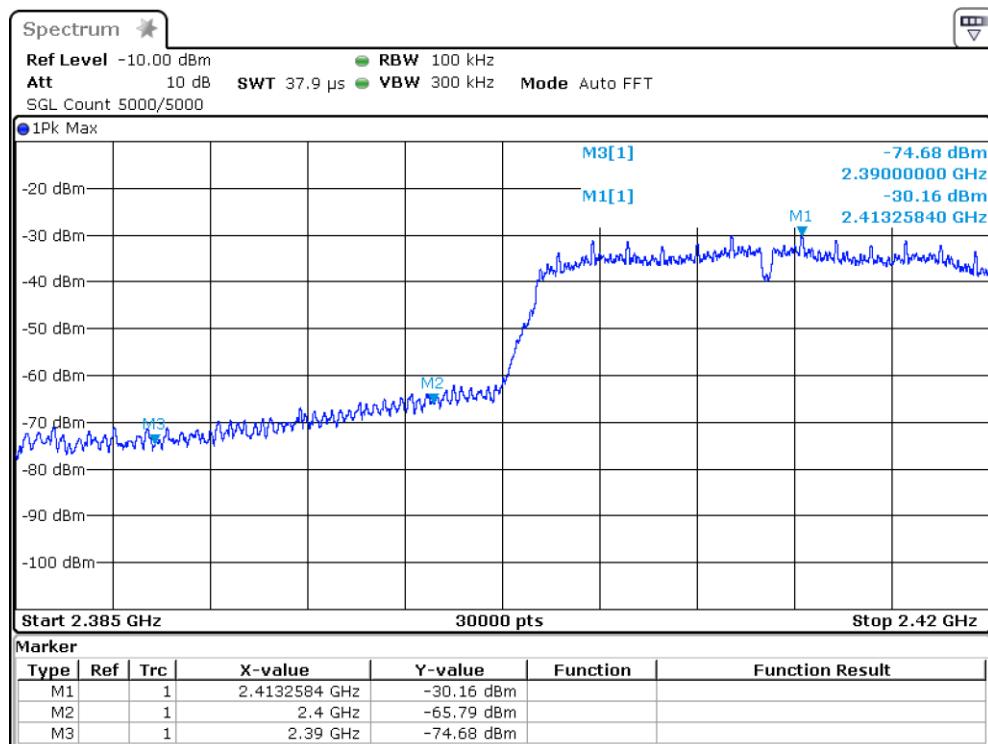
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Conducted Band Edge – 802.11b 11Mbps 2462MHz



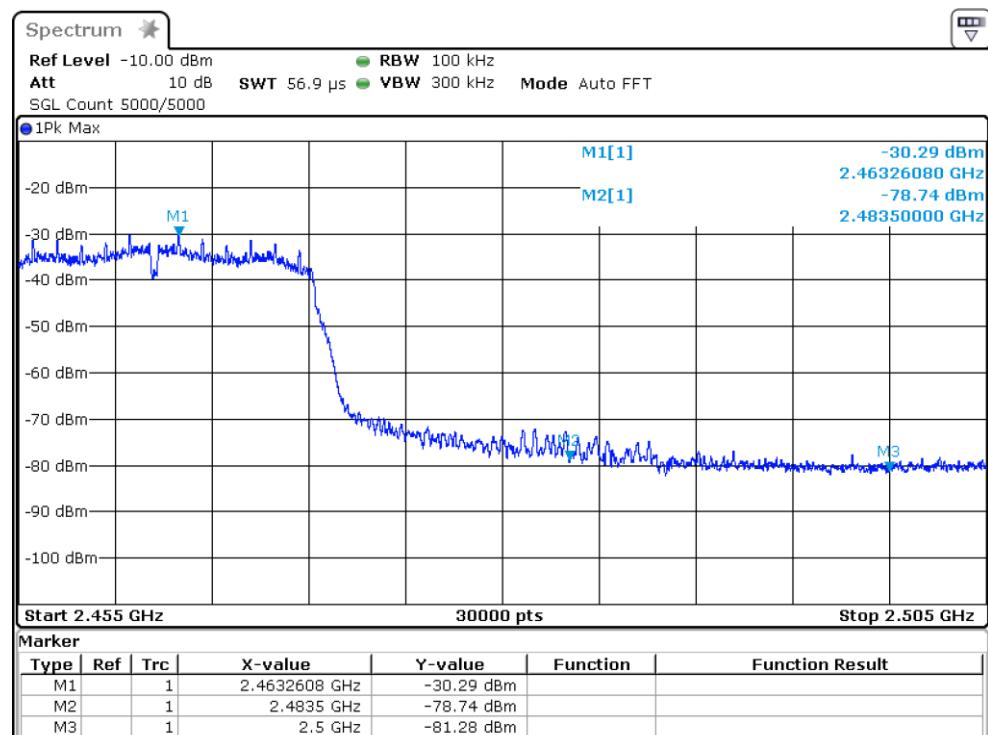
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Date: 20.JUL.2016 15:49:47

Conducted Band Edge – 802.11g 6Mbps 2412MHz



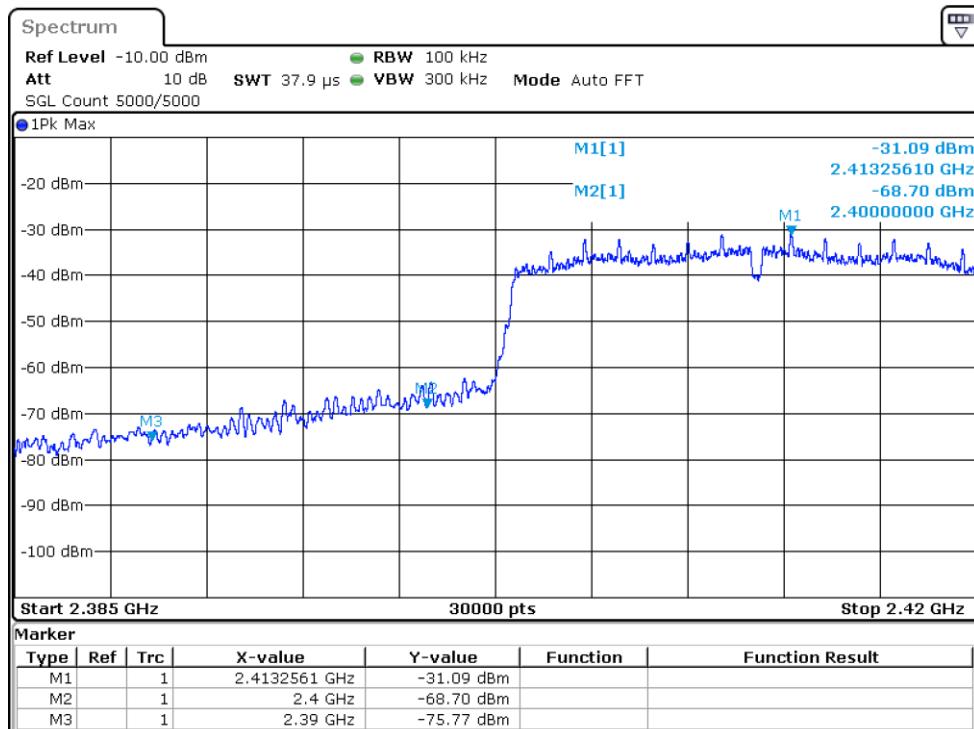
Date: 20.JUL.2016 16:06:10

Conducted Band Edge – 802.11g 6Mbps 2462MHz



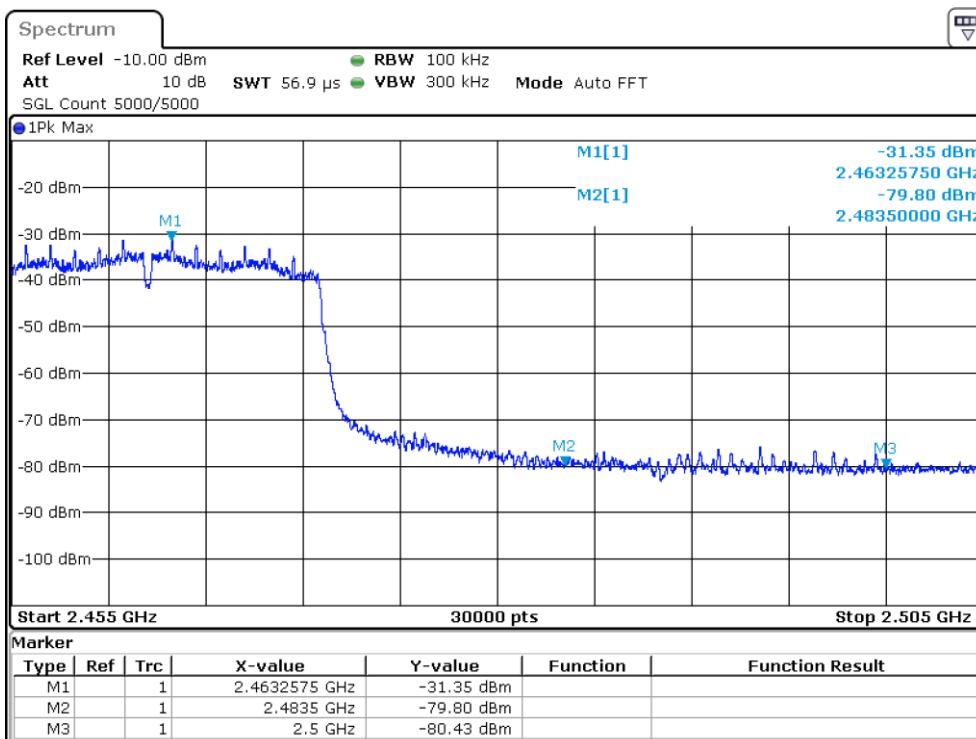
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Date: 21.JUL.2016 09:29:03

Conducted Band Edge – 802.11n (HT20) 6.5Mbps 2412MHz

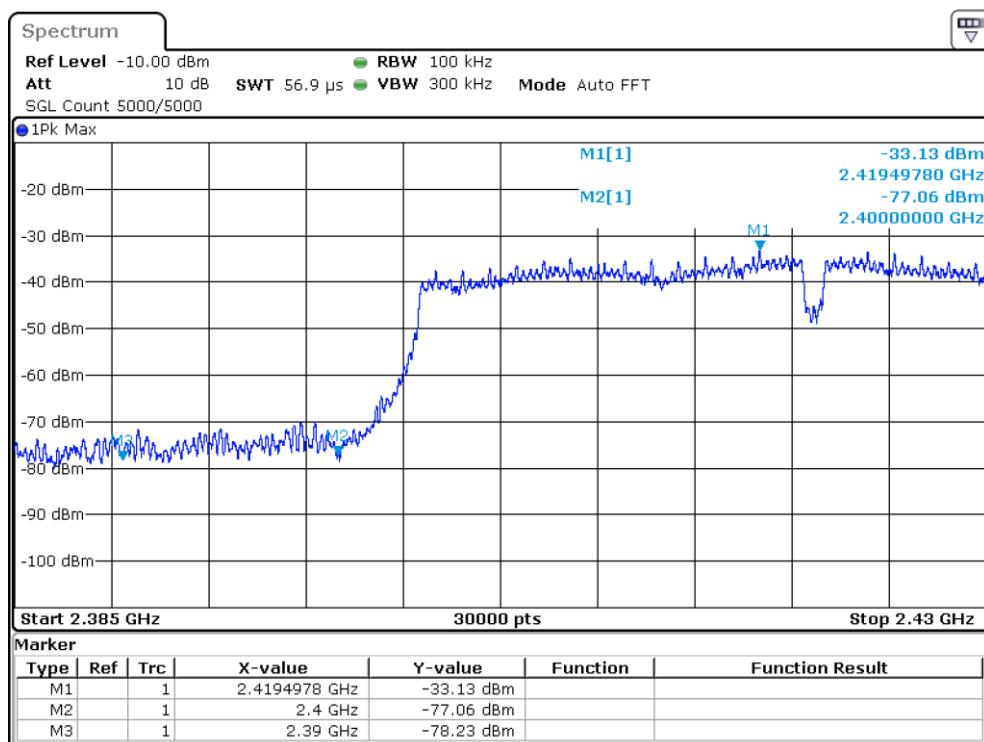


Date: 20.JUL.2016 16:22:39

Conducted Band Edge – 802.11n (HT20) 6.5Mbps 2462MHz

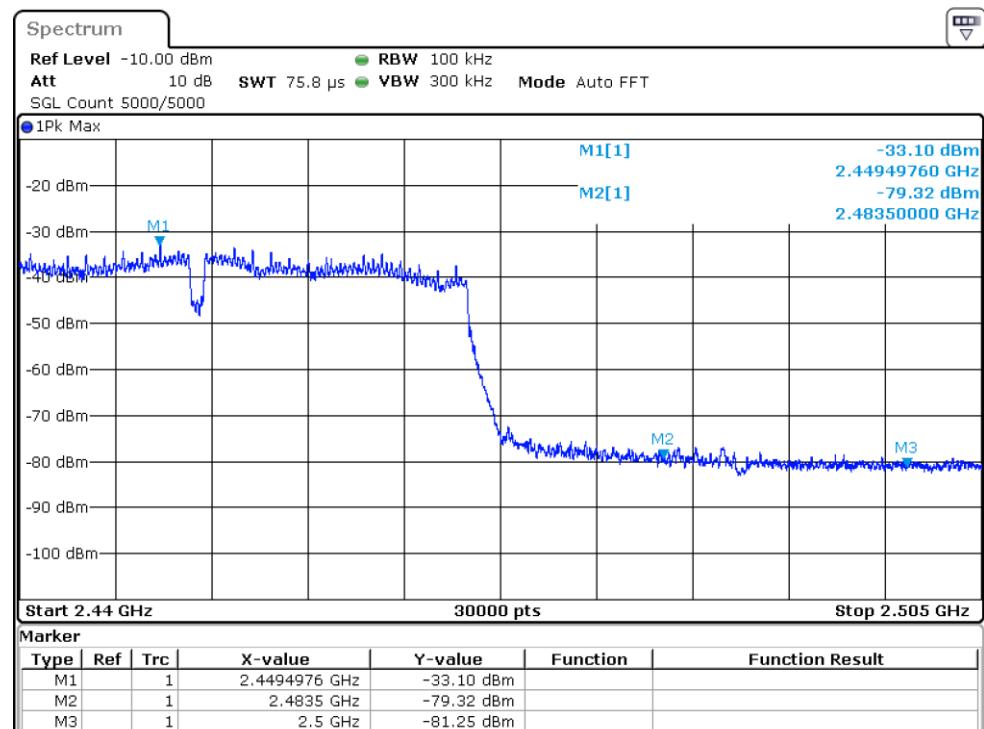
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Date: 21.JUL.2016 10:23:54

Conducted Band Edge – 802.11n (HT40) 54Mbps 2422MHz



Date: 21.JUL.2016 10:44:29

Conducted Band Edge – 802.11n (HT40) 54Mbps 2452MHz



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Conducted Spurious Emission

Note: 9 kHz - 25 GHz frequency range was investigated for all 802.11 modes and data rates.
No emissions detected.

MEASUREMENTS / RESULTS

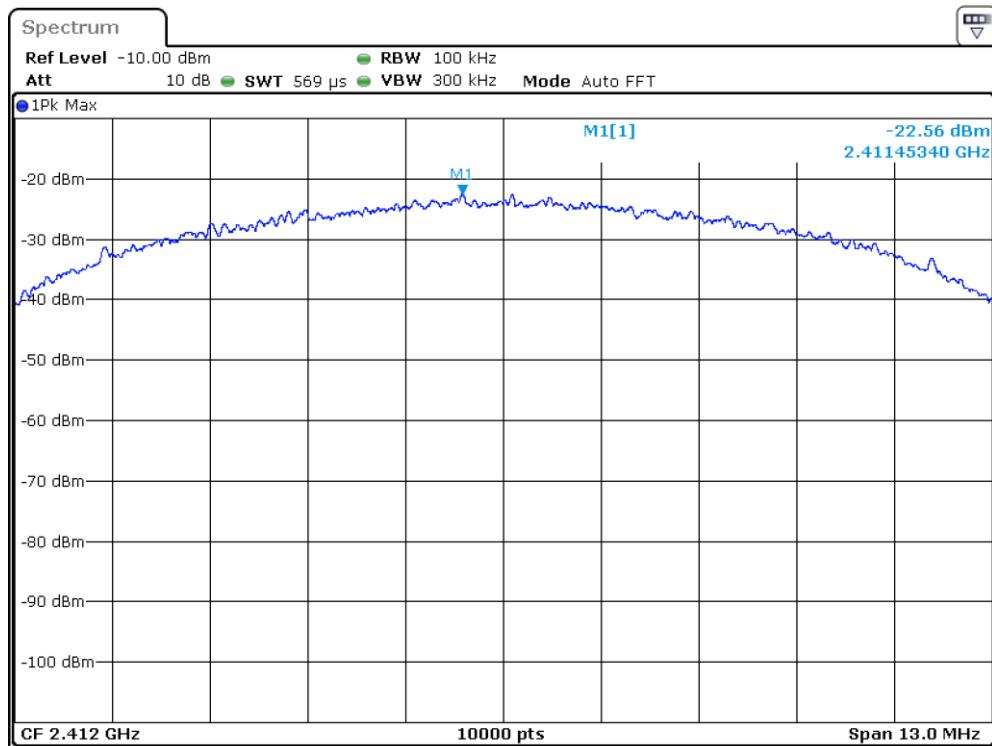
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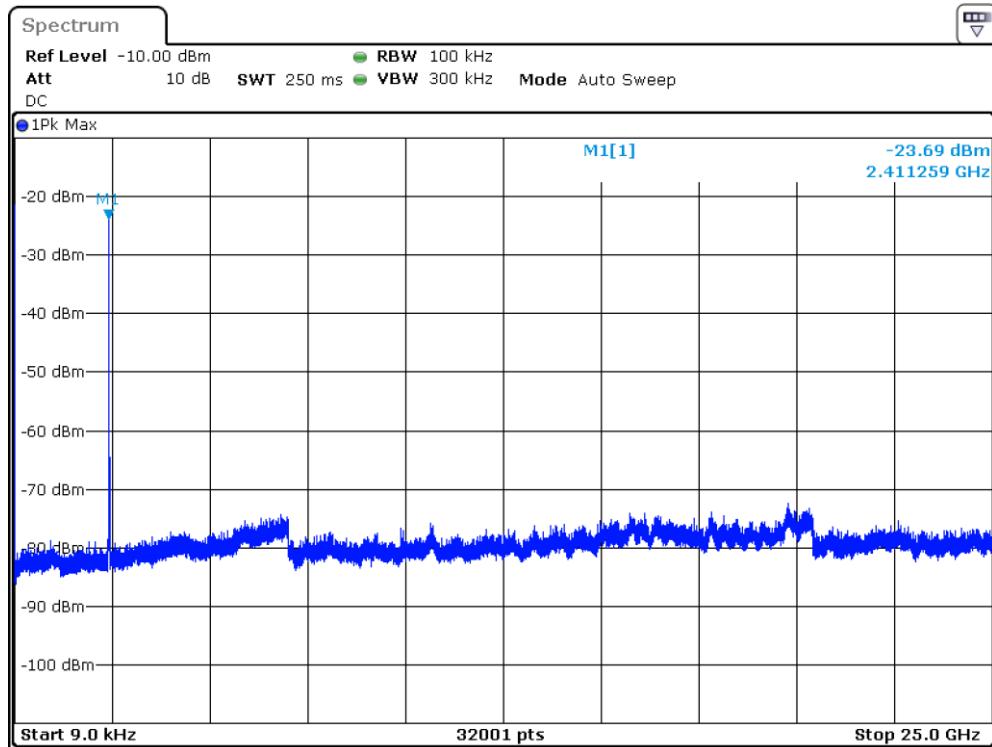
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Date: 18.JUL.2016 15:34:48

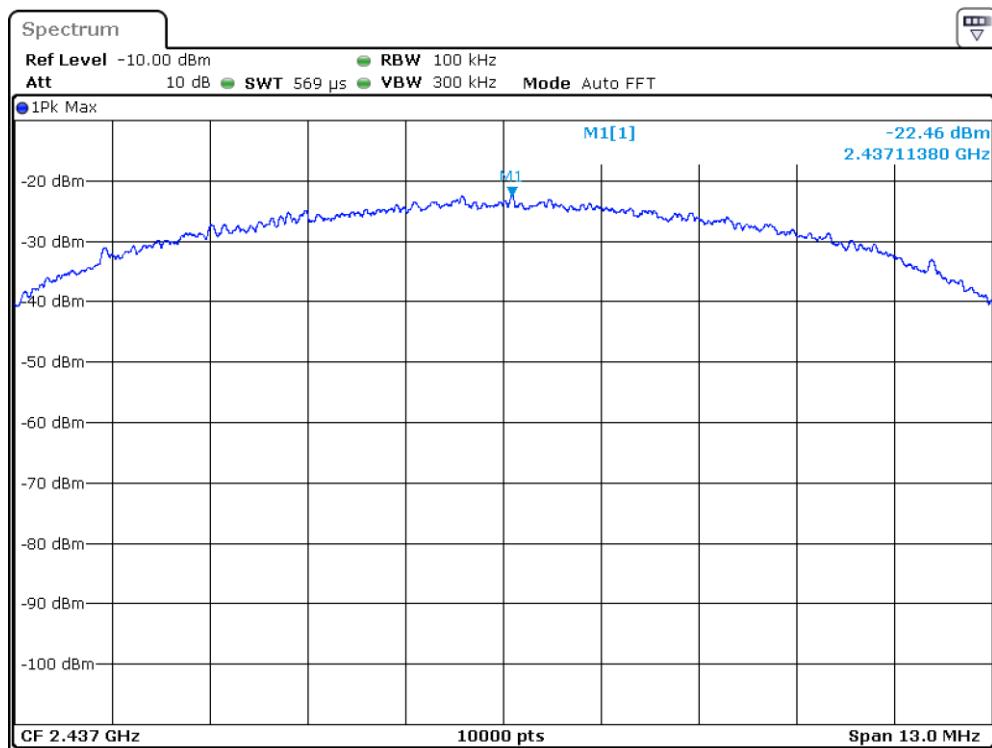
Fundamental – 802.11b 11Mbps 2412MHz

Date: 18.JUL.2016 16:01:55

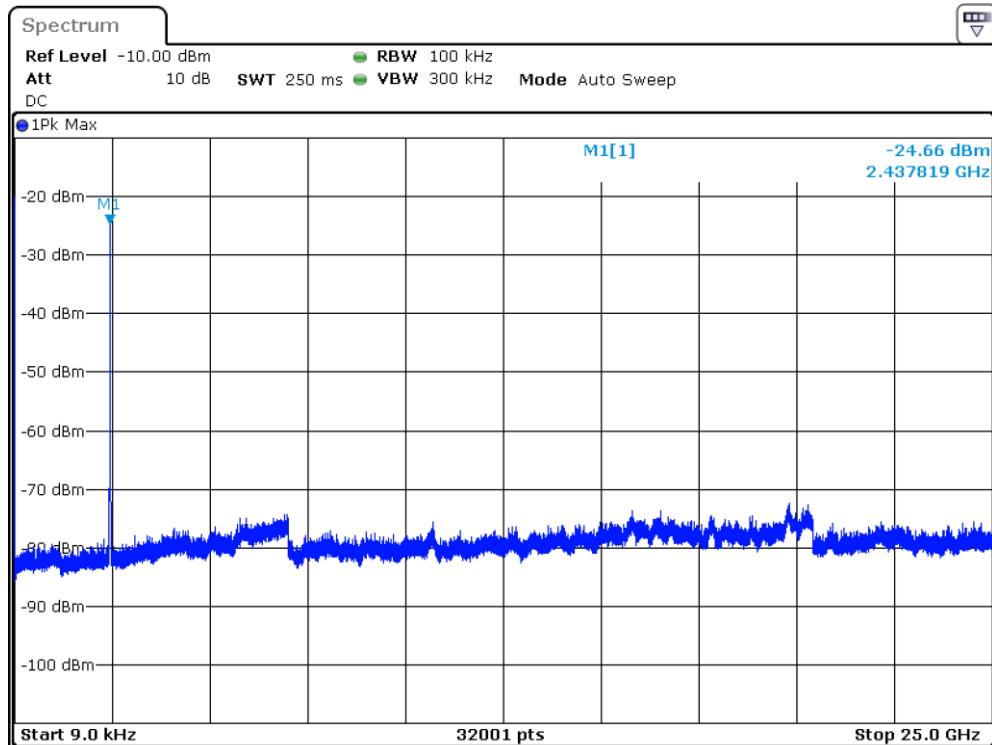
Conducted Spurious – 802.11b 11Mbps 2412MHz

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Date: 18.JUL.2016 15:40:49

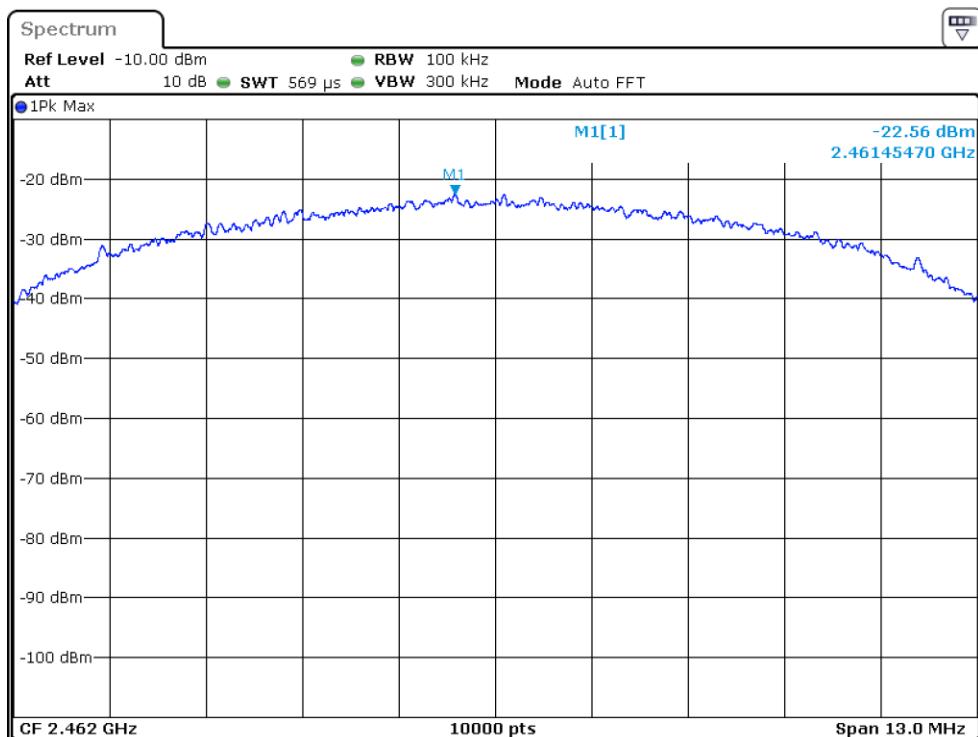
Fundamental – 802.11b 11Mbps 2437MHz

Date: 18.JUL.2016 16:14:48

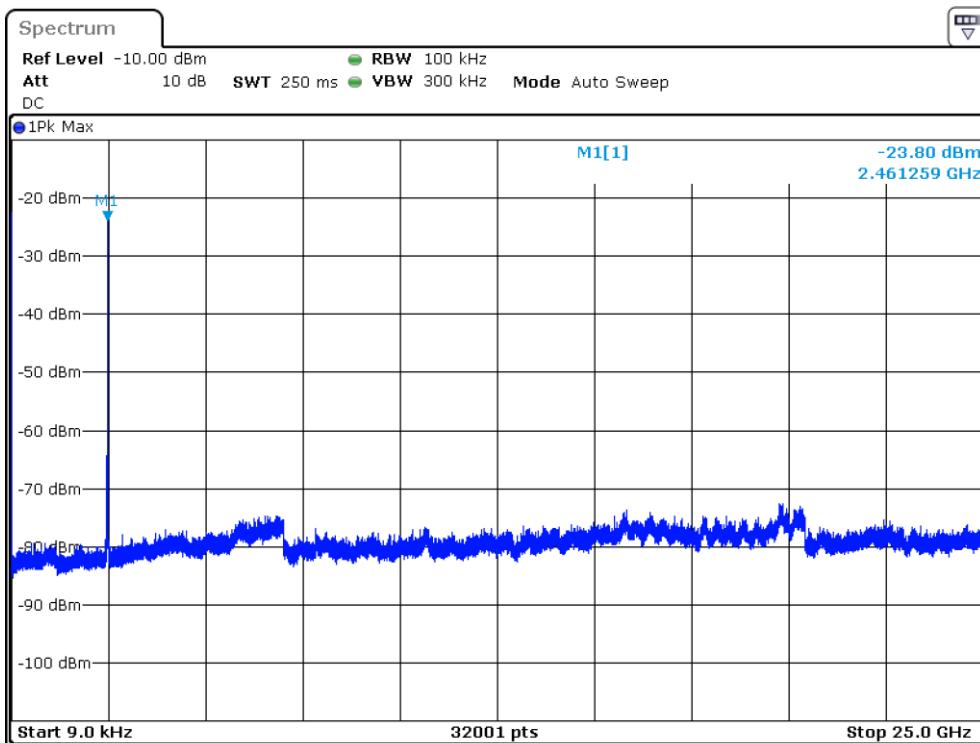
Conducted Spurious – 802.11b 11Mbps 2437MHz

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Date: 18.JUL.2016 15:46:51

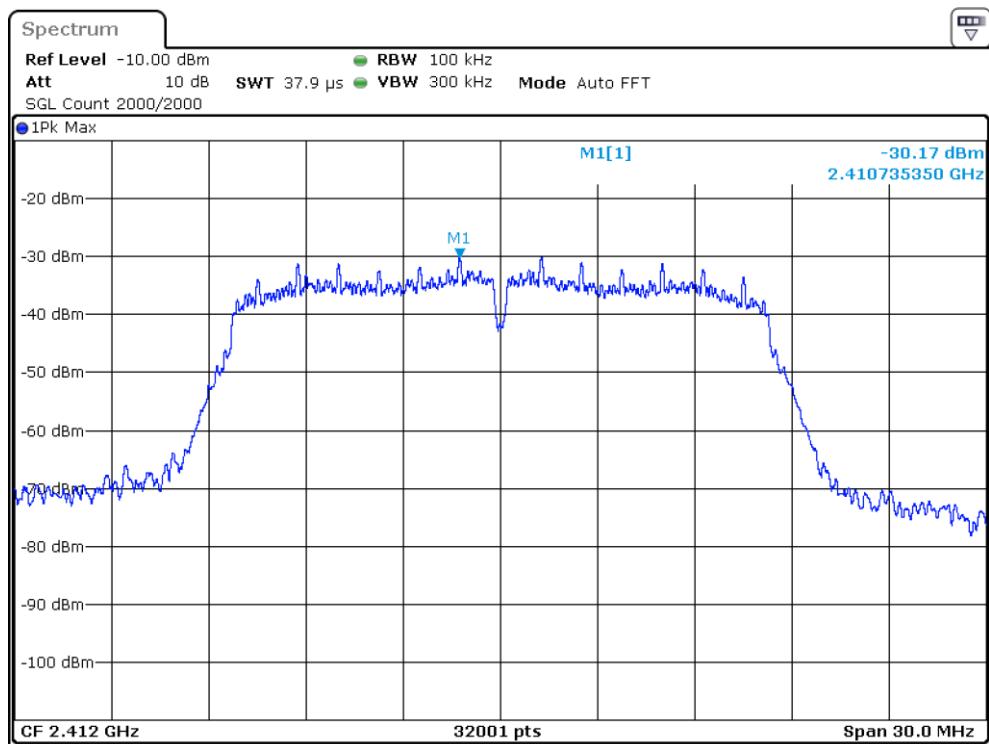
Fundamental – 802.11b 11Mbps 2462MHz

Date: 18.JUL.2016 16:24:01

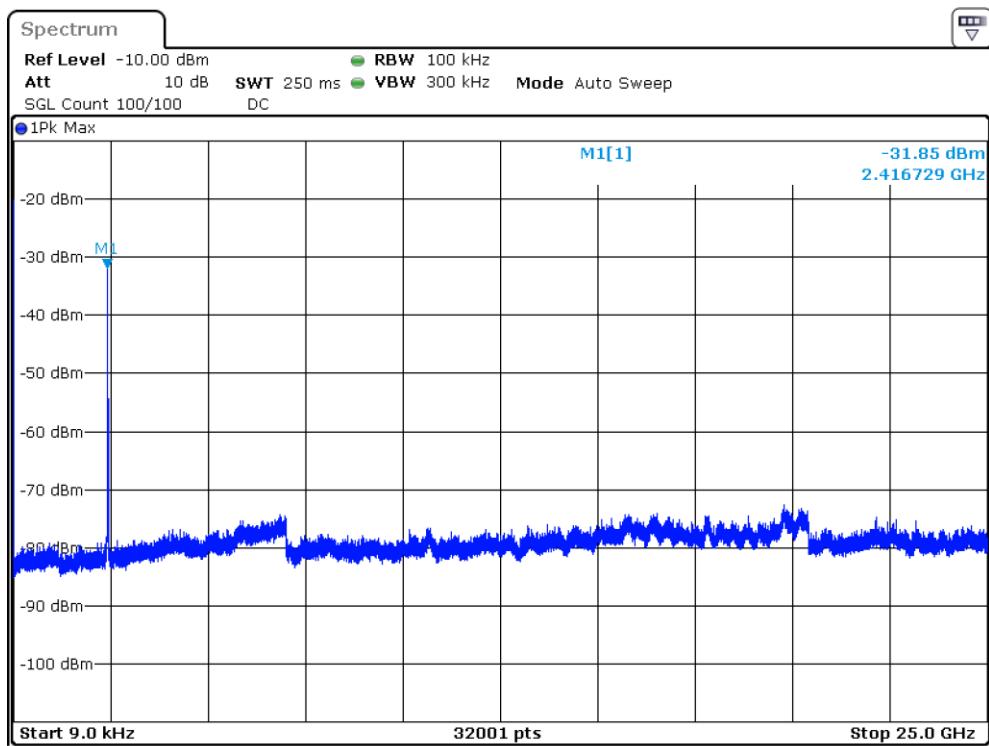
Conducted Spurious – 802.11b 11Mbps 2462MHz

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Date: 22.JUL.2016 10:37:27

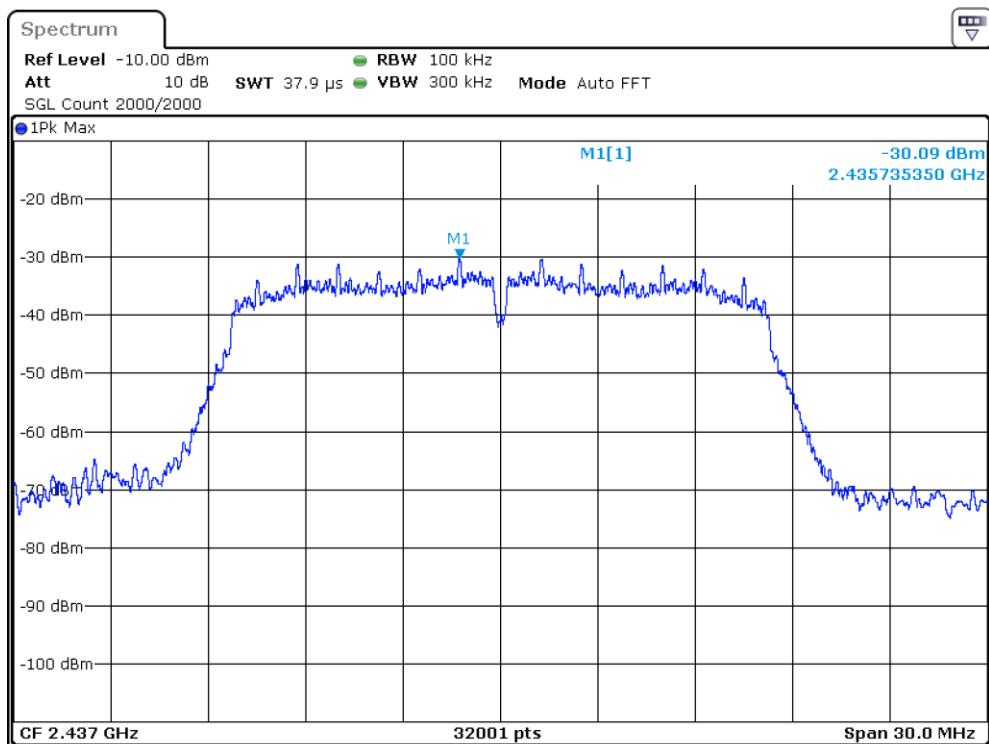
Fundamental – 802.11g 6Mbps 2412MHz

Date: 22.JUL.2016 11:17:22

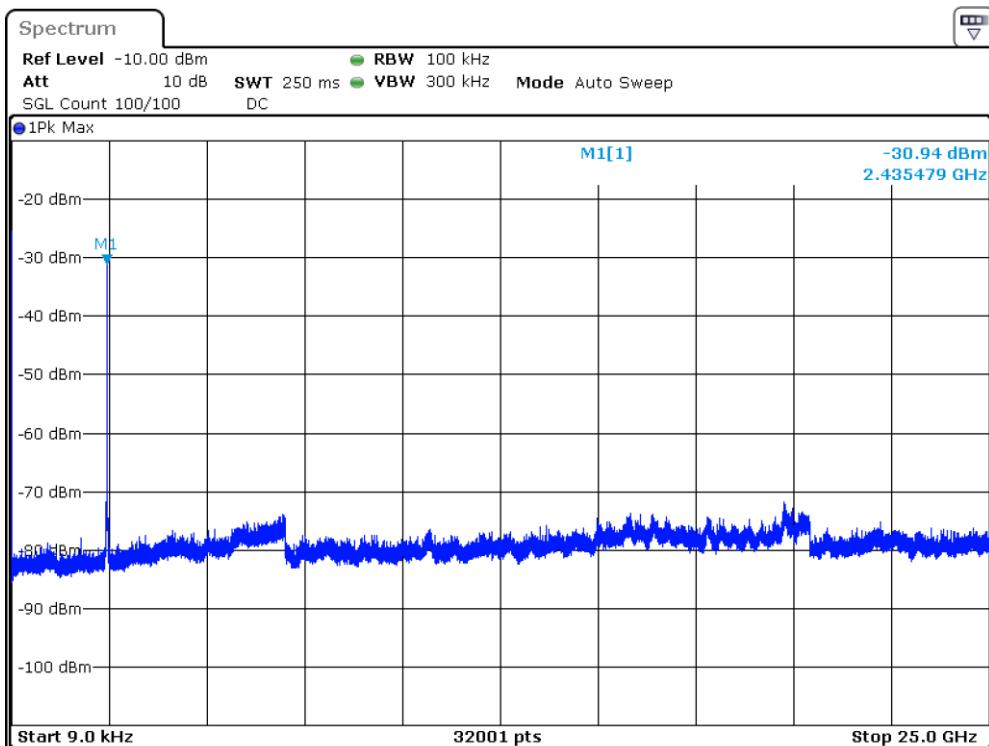
Conducted Spurious – 802.11g 6Mbps 2412MHz

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Date: 22.JUL.2016 10:39:50

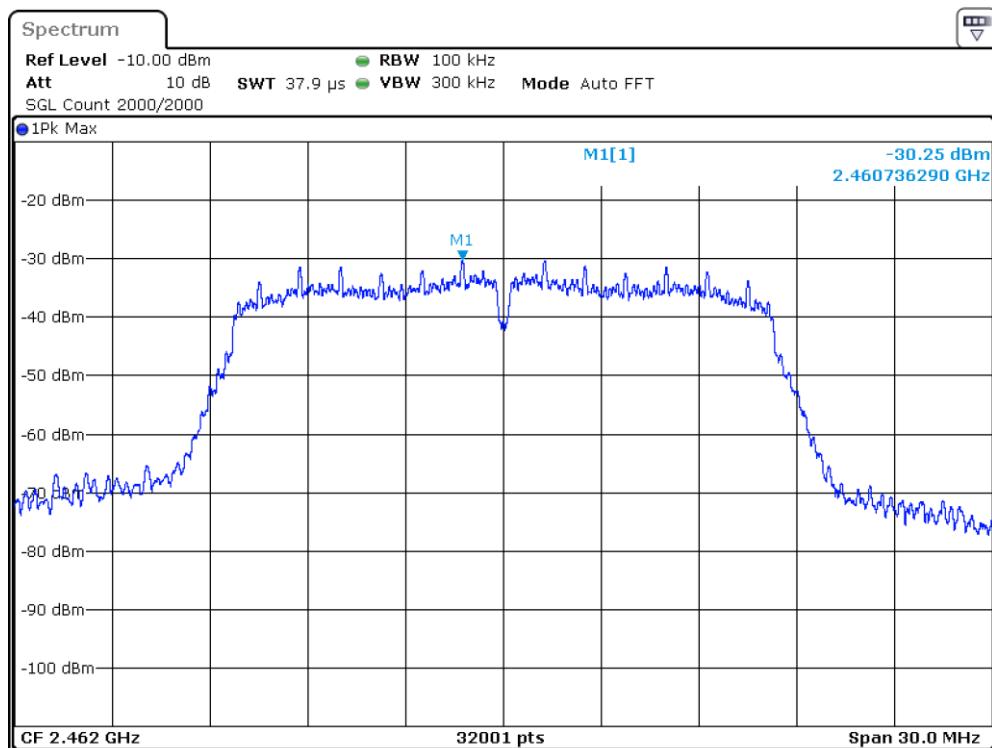
Fundamental – 802.11g 6Mbps 2437MHz

Date: 22.JUL.2016 11:14:21

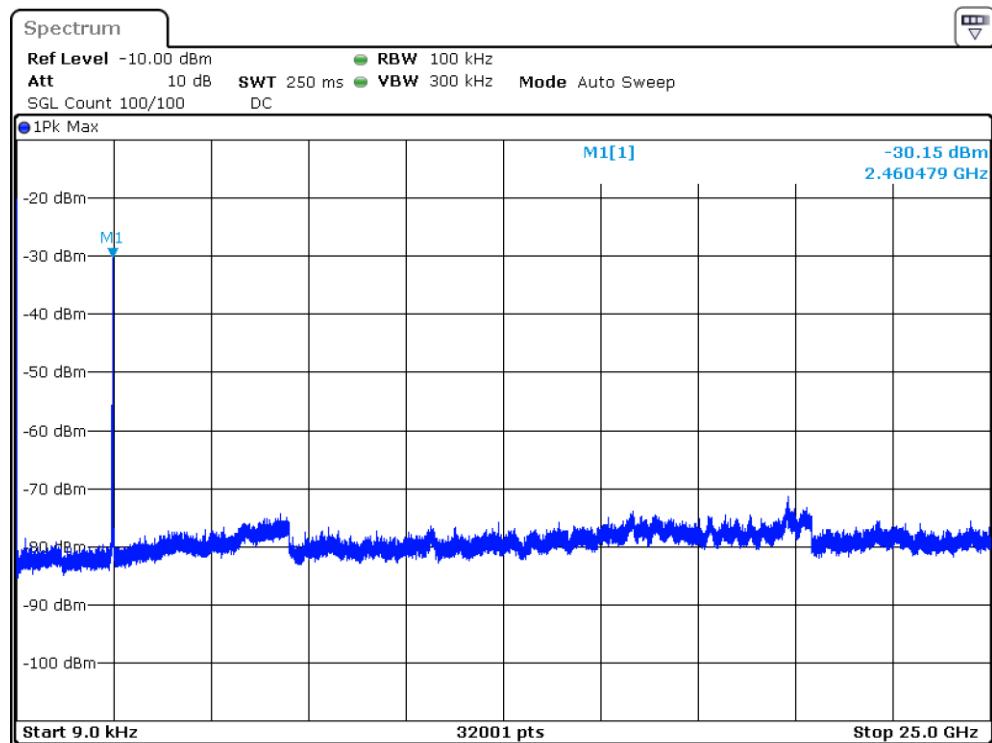
Conducted Spurious – 802.11g 6Mbps 2437MHz

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Date: 22.JUL.2016 10:41:17

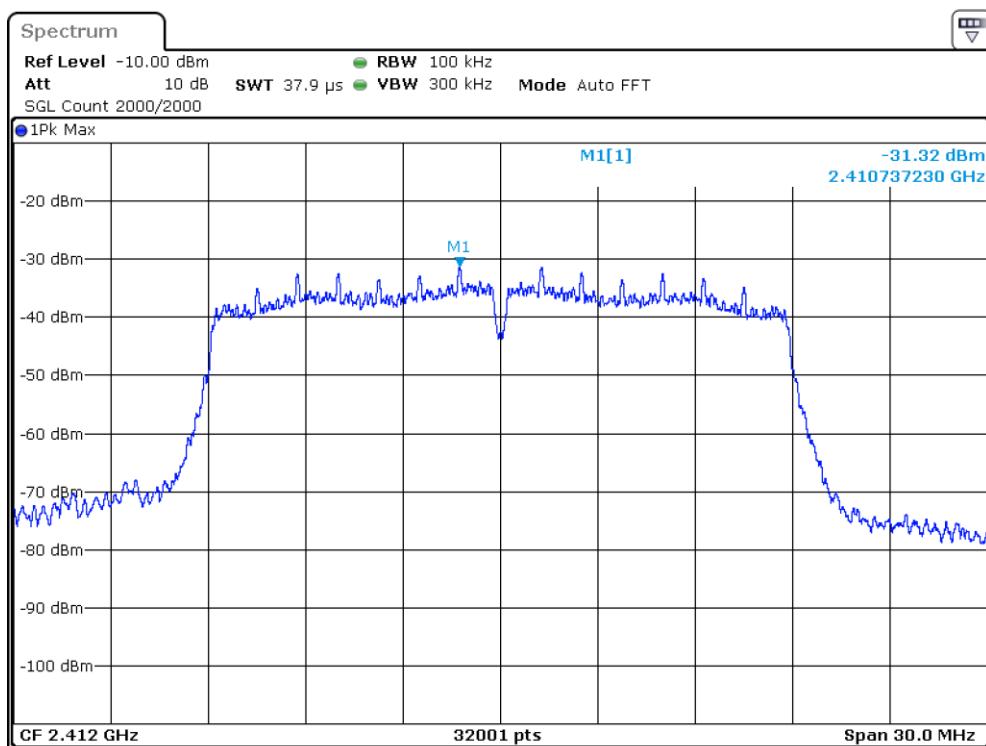
Fundamental – 802.11g 6Mbps 2462MHz

Date: 22.JUL.2016 11:19:53

Conducted Spurious – 802.11g 6Mbps 2462MHz

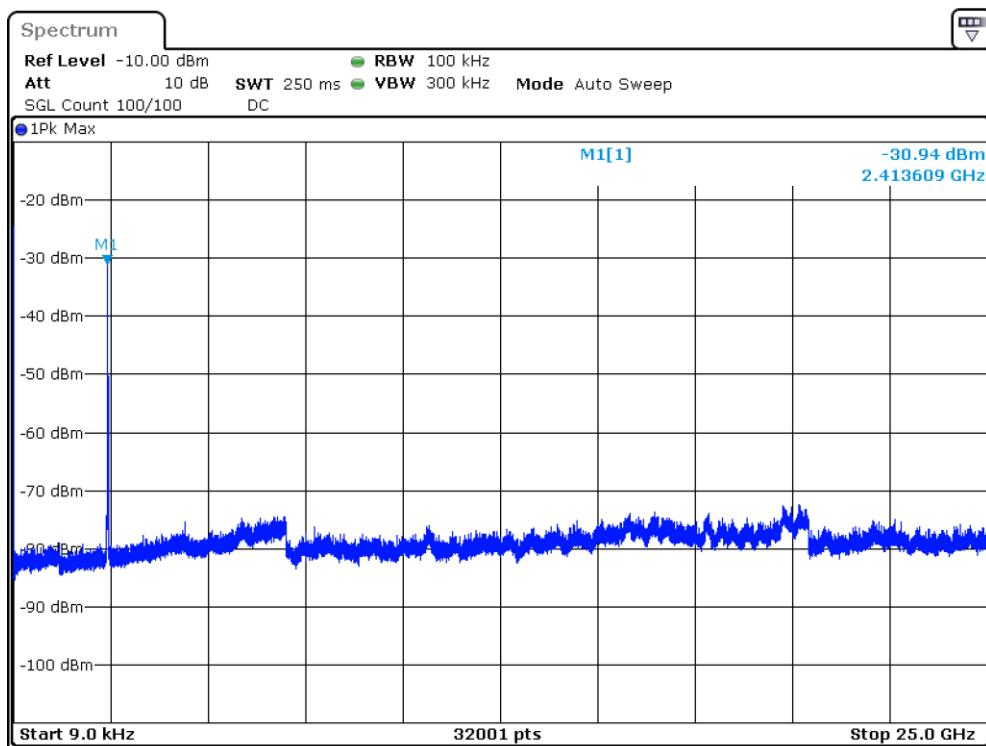
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Date: 22.JUL.2016 10:22:58

Fundamental – 802.11n (HT20) 6.5Mbps 2412MHz



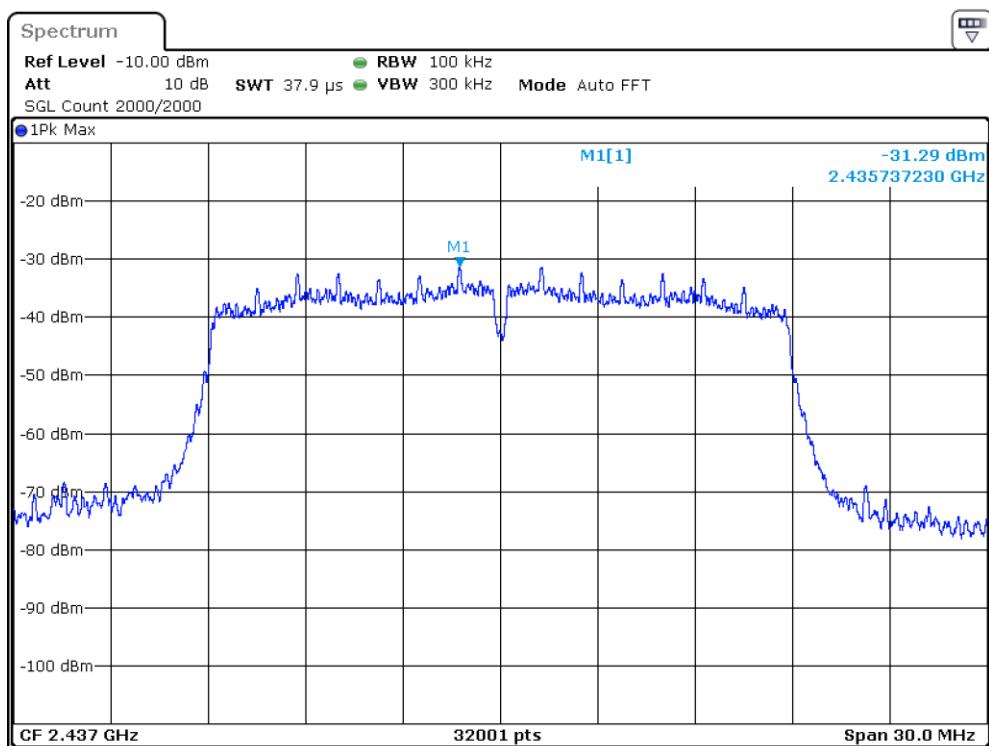
Date: 22.JUL.2016 10:04:59

Conducted Spurious – 802.11n (HT20) 6.5Mbps 2412MHz



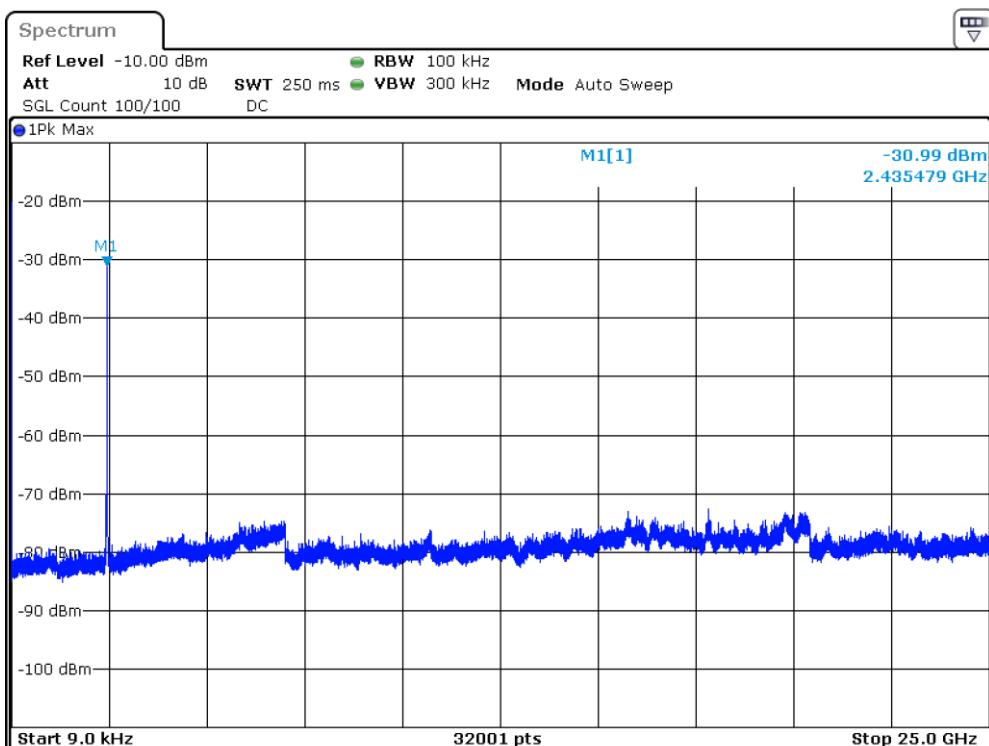
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Date: 21.JUL.2016 11:46:56

Fundamental – 802.11n (HT20) 6.5Mbps 2437MHz

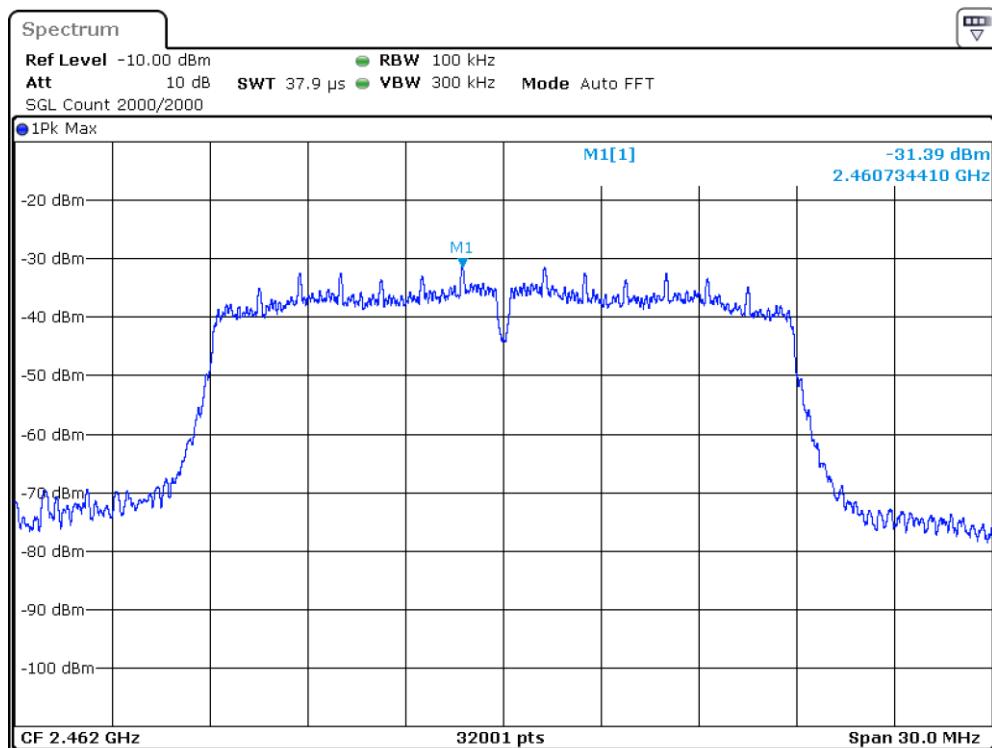


Date: 21.JUL.2016 14:02:42

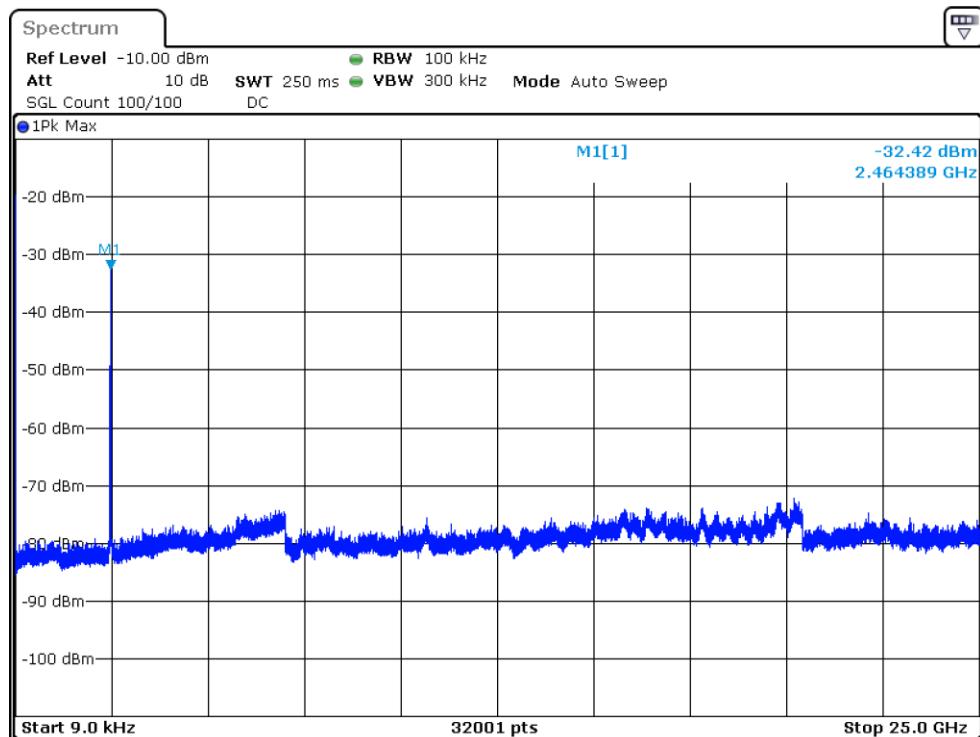
Conducted Spurious – 802.11n (HT20) 6.5Mbps 2437MHz

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Date: 22.JUL.2016 10:25:23

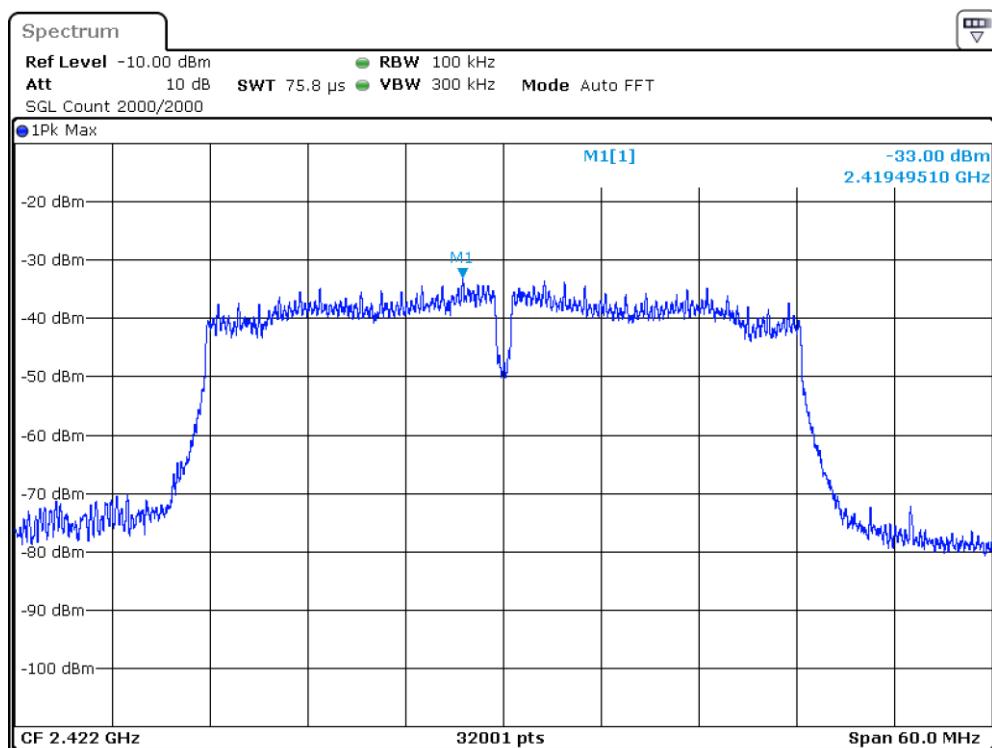
Fundamental – 802.11n (HT20) 6.5Mbps 2462MHz

Date: 22.JUL.2016 10:08:36

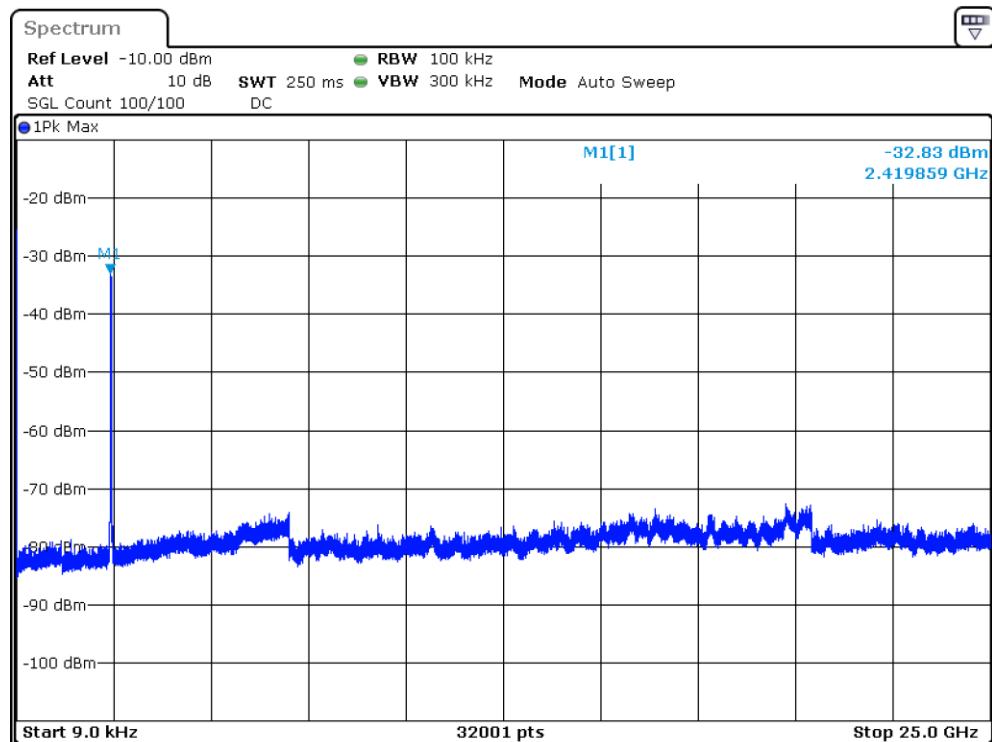
Conducted Spurious – 802.11n (HT20) 6.5Mbps 2462MHz

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Date: 22.JUL.2016 10:20:07

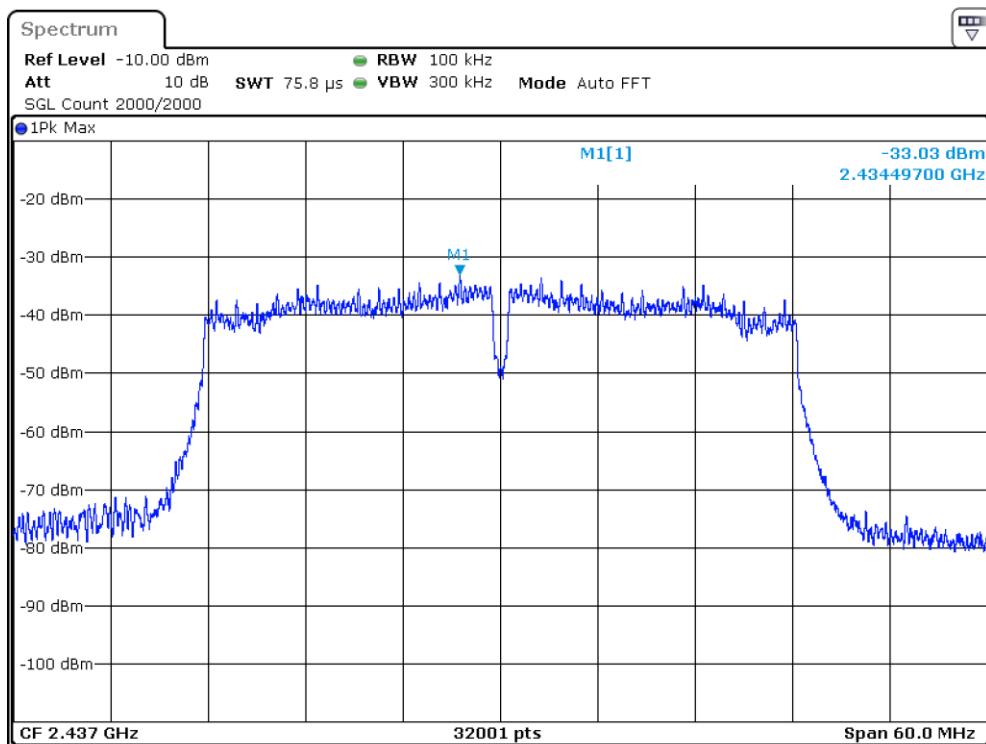
Fundamental – 802.11n (HT40) 54Mbps 2422MHz

Date: 22.JUL.2016 10:12:03

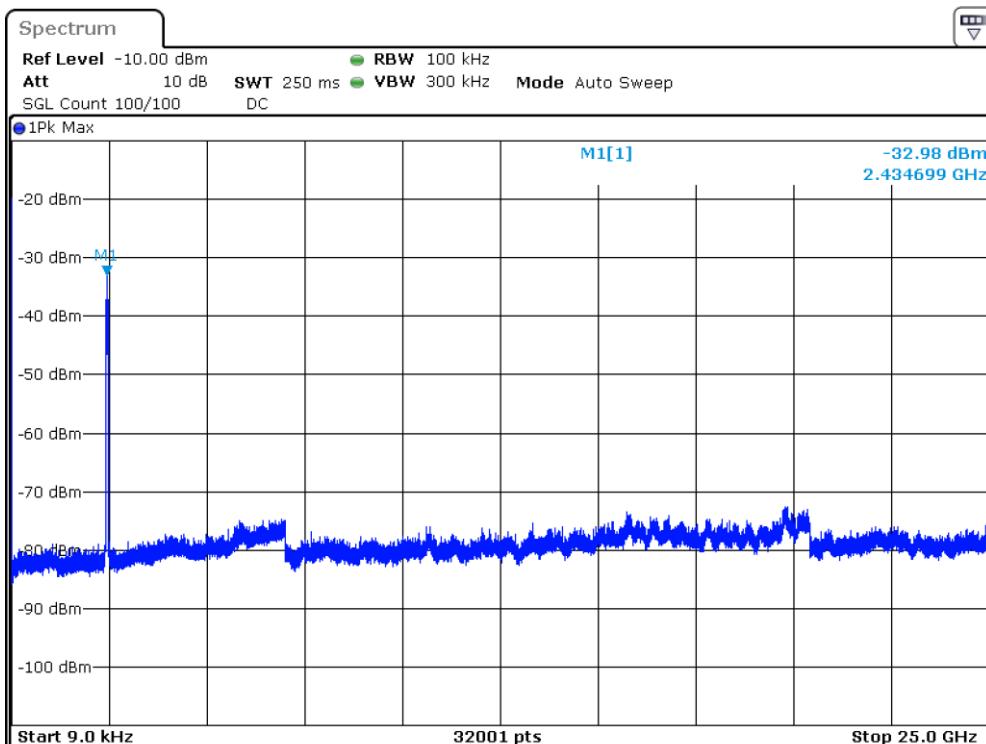
Conducted Spurious – 802.11n (HT40) 54Mbps 2422MHz

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Date: 21.JUL.2016 12:49:27

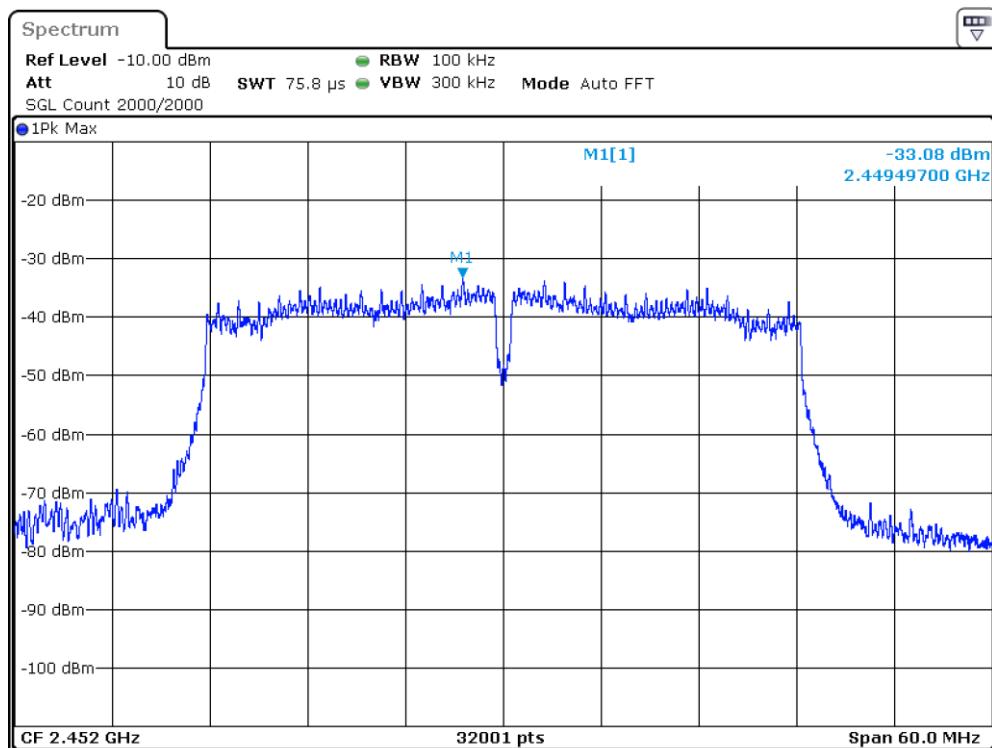
Fundamental – 802.11n (HT40) 54Mbps 2437MHz

Date: 21.JUL.2016 13:48:13

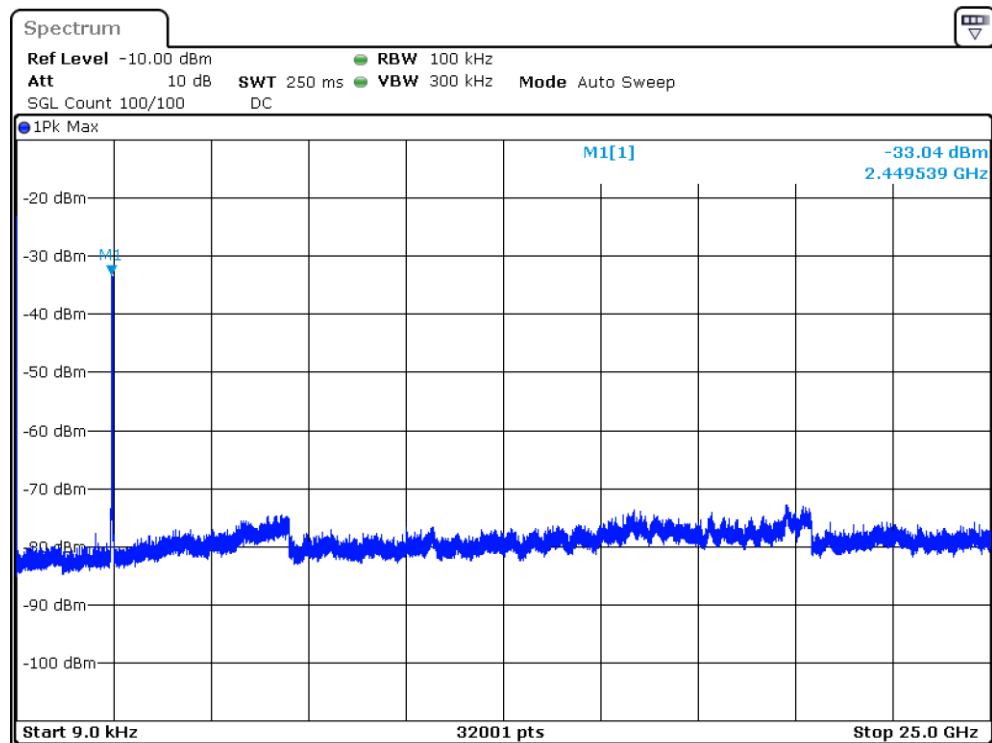
Conducted Spurious – 802.11n (HT40) 54Mbps 2437MHz

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Date: 22.JUL.2016 10:18:15

Fundamental – 802.11n (HT40) 54Mbps 2452MHz

Date: 22.JUL.2016 10:15:02

Conducted Spurious – 802.11n (HT40) 54Mbps 2452MHz

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Power Spectral Density

Limit: Power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.
 [15.247(e)]

Per 558074 D01 DTS Measurement Guidance v03r05 Section 10.2 (Peak PSD)

MEASUREMENTS / RESULTS

Peak Power Spectral Density										
Date: Jul-18-2016, Jul-20-2016		Company: Udisense Inc. DBA: Nanit		Work Order: Q1060						
Engineer: Yunus Faziloglu		EUT: Smart Baby Monitor (Model: N101)		EUT Operating Voltage/Frequency: 5VDC						
Jul 18 2016	Temp: 23.9°C	Humidity: 45%	Pressure: 1005 mBar							
Jul 20 2016	Temp: 23.9°C	Humidity: 45%	Pressure: 1005 mBar							
Frequency Range: 2412-2462 MHz		Measurement Type: Conducted								
Notes: Powered from support laptop USB port		Measurement Method: FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 10.2								
All data rates measured for each 802.11 mode. Only the highest readings are reported.										
Mode	Data Rate	Frequency	Peak Reading	Cable Loss	Attenuator Loss	Peak PSD	Limit	Margin	Result	
		Mbps (MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)		
802.11b	2	2412.0	-30.25	1.0	29.5	0.25	8.0	-7.75	Pass	
		2437.0	-30.51	1.0	29.5	-0.01	8.0	-8.01	Pass	
		2462.0	-30.34	1.0	29.5	0.16	8.0	-7.84	Pass	
802.11g	54	2412.0	-37.02	1.0	29.5	-6.52	8.0	-14.52	Pass	
		2437.0	-36.8	1.0	29.5	-6.30	8.0	-14.30	Pass	
		2462.0	-36.7	1.0	29.5	-6.20	8.0	-14.20	Pass	
802.11n(HT20)	39	2412.0	-38.64	1.0	29.5	-8.14	8.0	-16.14	Pass	
		2437.0	-38.57	1.0	29.5	-8.07	8.0	-16.07	Pass	
		2462.0	-39.24	1.0	29.5	-8.74	8.0	-16.74	Pass	
802.11n(HT40)	13.5	2422.0	-39.72	1.0	29.5	-9.22	8.0	-17.22	Pass	
		2437.0	-40.15	1.0	29.5	-9.65	8.0	-17.65	Pass	
		2452.0	-39.84	1.0	29.5	-9.34	8.0	-17.34	Pass	
Test Site: Wireless Test Room		Cable 1: UFL to SMA adapter		Attenuator		A2121				
Analyzer: A2200						Copyright Curtis-Straus LLC 2000				
Peak PSD(dBm) = Peak Reading (dBm) + Cable Loss (dB) + Attenuator Loss (dB)										

Rev. 7/4/2016

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cal	Calibration Due	Calibrated on
FSV40 Signal/Spectrum Analyzer	10Hz-40GHz	FSV40	R&S	101551	2200	I	6/1/2017	6/1/2016
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cal	Calibration Due	Calibrated on
API - 30dB 20W Attenuator	9KHz-40GHz	89-30-11	API Weinschel	703	2121	I	2/10/2017	2/10/2016

Meteorological Meters	MN	Mfr	SN	Asset	Cal	Calibration Due	Calibrated on
Weather Clock (Pressure Only)	BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2085	HTC-1	HDE		2085	II	4/5/2017	4/5/2016

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

PLOTS

Continued on next page.



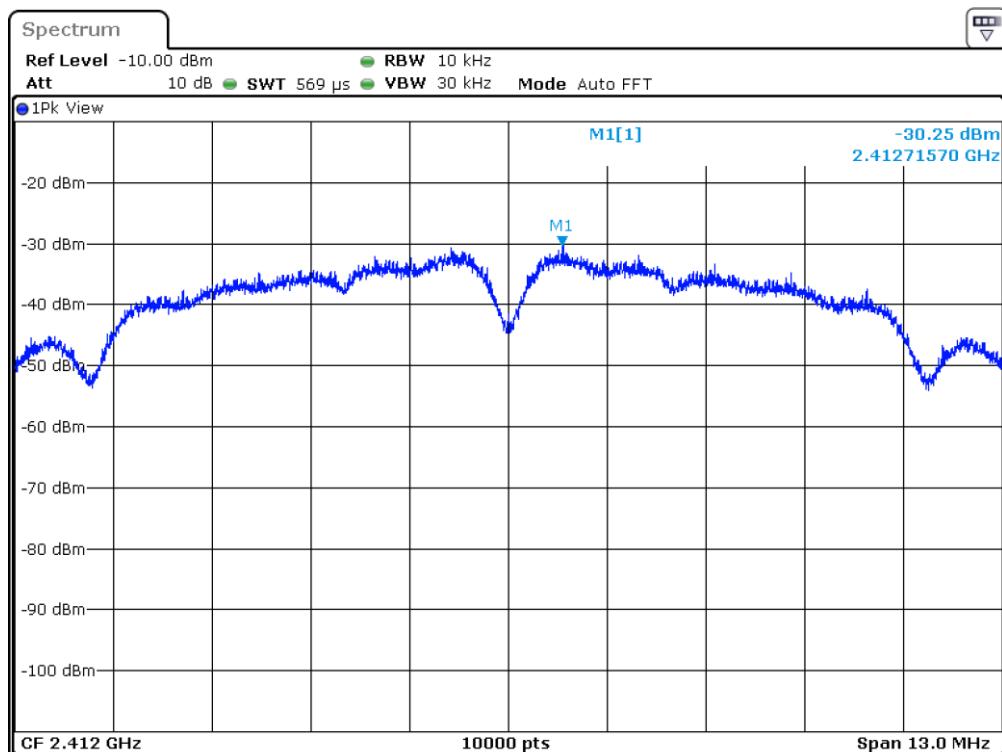
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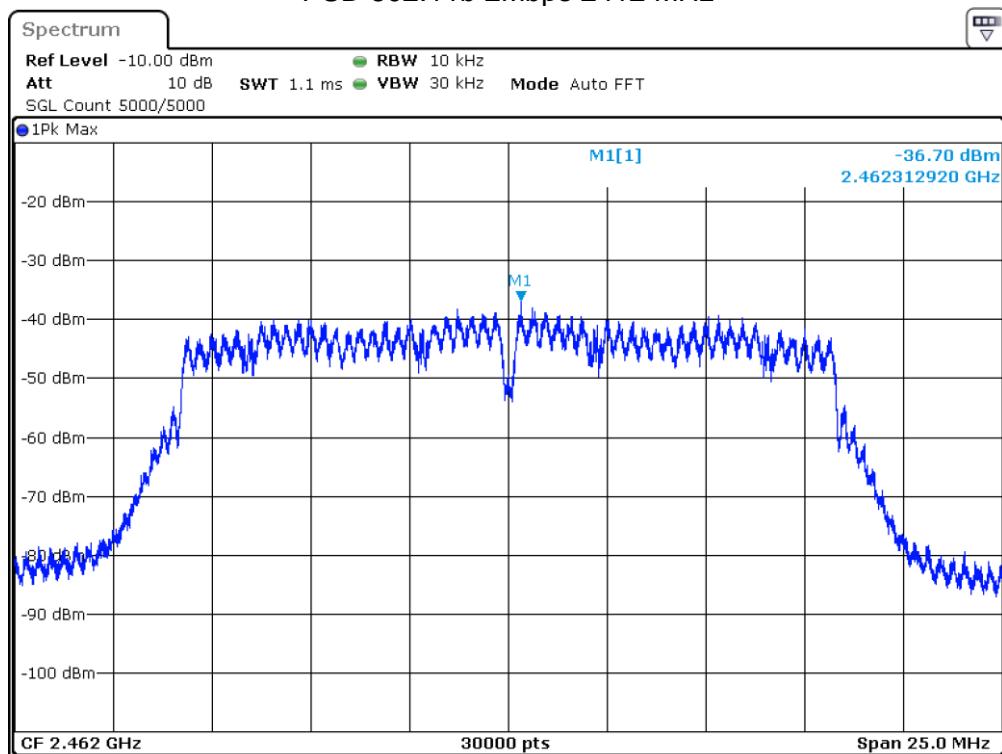
page 36 of 45



Testing Cert. No. 1627-01



Date: 18.JUL.2016 13:57:14

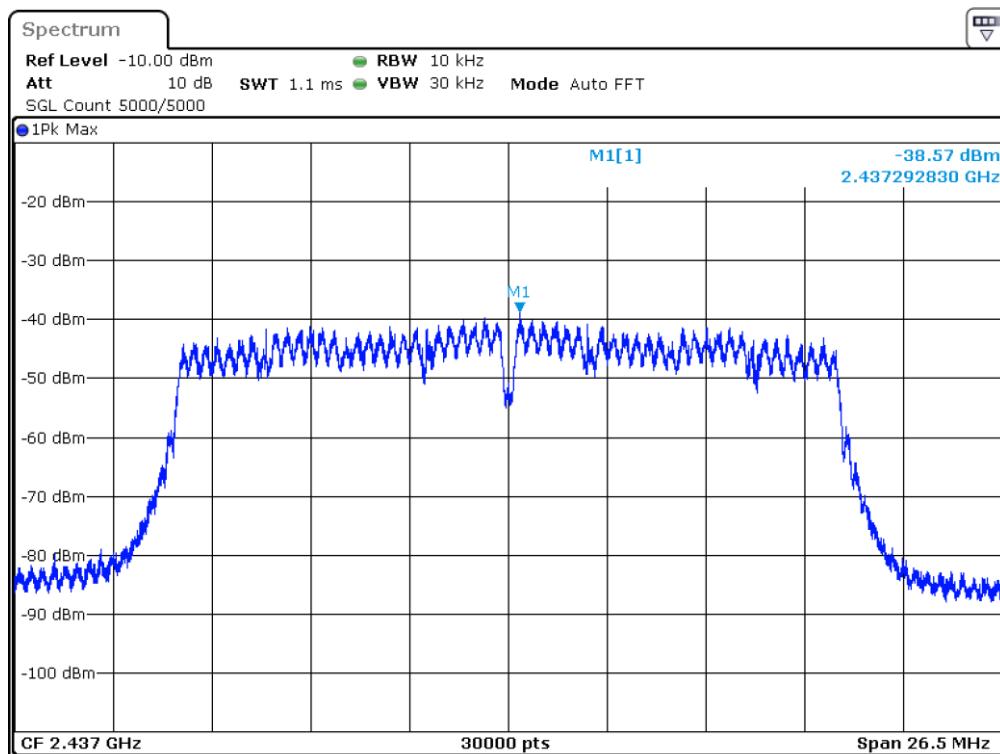
PSD 802.11b 2Mbps 2412 MHz

Date: 20.JUL.2016 14:19:59

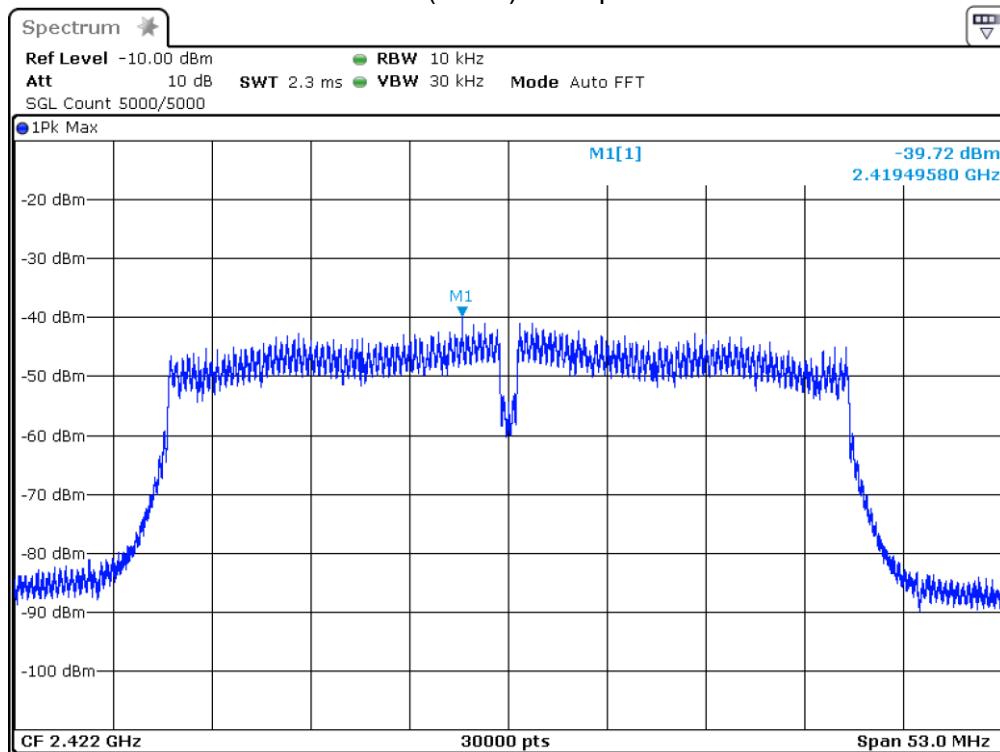
PSD 802.11g 54Mbps 2462 MHz

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Date: 20.JUL.2016 14:47:58

PSD 802.11n (HT20) 39Mbps 2437 MHz

Date: 20.JUL.2016 15:31:46

PSD 802.11n (HT40) 13.5Mbps 2422 MHz

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AC Line Conducted Emissions

LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dB μ V)	Average limit (dB μ V)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

AC Conducted Emissions Data Table																	
		Date: 29-Aug-16		Company: Udisense Inc. DBA: Nanit		Work Order: Q1060											
		Engineer: Yunus Faziloglu		EUT Desc: Smart Baby Monitor (Model: N101)													
		Temp: 24.0 °C		Humidity: 45%		Pressure: 1010mbar											
Notes: 802.11g 6Mbps (worst case)																	
Frequency Range: 0.15-30MHz																	
Frequency (MHz)	Quasi-Peak Readings		Average Readings		LISN Factors		Cable Factor (dB)	ATTN Factor (dB)	EUT Input Voltage/Frequency: 120V/60Hz								
	QP1 (dB μ V)	QP2 (dB μ V)	AVG1 (dB μ V)	AVG2 (dB μ V)	L1 (dB)	L2 (dB)			QP Limit (dB μ V)	Margin (dB)	Result (Pass/Fail)	AVG Limit (dB μ V)	Margin (dB)	Result (Pass/Fail)			
9.11	26.7	26.9	13.5	9.1	0.0	-0.1	-0.1	-20.3	60.0	-12.6	Pass	50.0	-16.0	Pass			
9.63	28.5	28.0	15.2	11.3	-0.1	-0.1	-0.1	-20.3	60.0	-11.0	Pass	50.0	-14.3	Pass			
10.15	28.0	27.6	17.1	13.8	-0.1	-0.1	-0.1	-20.3	60.0	-11.5	Pass	50.0	-12.4	Pass			
10.67	27.3	30.3	18.4	15.0	-0.1	-0.1	-0.1	-20.3	60.0	-9.2	Pass	50.0	-11.1	Pass			
11.19	21.7	22.1	14.9	13.3	-0.1	-0.1	-0.1	-20.3	60.0	-17.4	Pass	50.0	-14.6	Pass			
11.71	16.3	14.8	9.2	6.5	-0.1	-0.1	-0.1	-20.3	60.0	-23.2	Pass	50.0	-20.3	Pass			
Result: Pass										Worst Margin: -9.2 dB		Frequency: 10.670 MHz					
Measurement Device: LISN ASSET 1726(Line 1) LISN ASSET 1727(Line 2)					Cable: CEMI-02		Spectrum Analyzer: Gold		Site: CEMI 5								
C-S CEMI Calculator Version 3.0.14 Adjusted Reading = Raw Reading + LISN Insertion Loss + Cable Loss + Attenuation										Equipment Factor Sheet rev. 8/24/2016							

Rev. 8/29/2016

LISNs/Measurement Probes	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
LISN Asset 1726	150kHz-30MHz	LI-150A	Com-Power	201092	1726	I	2/4/2017	2/4/2016
LISN Asset 1727	150kHz-30MHz	LI-150A	Com-Power	201093	1727	I	2/4/2017	2/4/2016
Cables	Range	Mfr			Cat	Calibration Due	Calibrated on	
CEMI-02	9kHz - 2GHz	C-S			II	4/10/2017	4/10/2016	
Attenuators	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
20dB Attenuator-04	9kHz-2GHz	N/A		N/A		II	9/7/2017	8/7/2016
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	1/13/2017	1/13/2016
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
Weather Clock (Pressure Only) TH A#2085	BA928 HTC-1	Oregon Scientific HDE	C3166-1	831 2085	I II	4/28/2018 4/5/2017	4/28/2016 4/5/2016	

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



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Occupied Bandwidth

Requirement: When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 6.6]

MEASUREMENTS / RESULTS

99% Occupied Bandwidth														
Date: Jul-20-2016	Company: Udisense Inc. DBA: Nanit				Work Order: Q1060									
Engineer: Yunus Faziloglu	EUT: Smart Baby Monitor (Model: N101) EUT Operating Voltage/Frequency: 5VDC													
Temp: 23.9°C	Humidity: 45% Pressure: 1005 mBar													
Frequency Range: 2412-2462 MHz	Measurement Type: Conducted													
Notes: Powered from support laptop USB port	Measurement Method: RSS-Gen Issue 4 Section 6.6													
All data rates measured for each 802.11 mode. Only the highest readings are reported.														
Mode	Data Rate	Frequency		Reading										
	Mbps	(MHz)		(MHz)										
802.11b	2	2412.0		12.096										
		2437.0		12.092										
		2462.0		12.083										
802.11g	36	2412.0		16.471										
		2437.0		16.503										
		2462.0		16.512										
802.11n(HT20)	52	2412.0		17.556										
		2437.0		17.576										
		2462.0		17.543										
802.11n(HT40)	13.5	2422.0		36.016										
		2437.0		36.200										
		2452.0		36.054										
Test Site: Wireless Test Room		Cable 1: UFL to SMA adapter			Attenuator A2121									
Analyzer: A2200														
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Rev. 7/4/2016

Spectrum Analyzers / Receivers /Preselectors FSV40 Signal/Spectrum Analyzer	Range 10Hz-40GHz	MN FSV40	Mfr R&S	SN 101551	Asset 2200	Cat I	Calibration Due 6/1/2017	Calibrated on 6/1/2016
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Preamps /Coupplers Attenuators / Filters API - 30dB 20W Attenuator	Range 9KHz-40GHz	MN 89-30-11	Mfr API Weinschel	SN 703	Asset 2121	Cat I	Calibration Due 2/10/2017	Calibrated on 2/10/2016
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Meteorological Meters Weather Clock (Pressure Only) TH A#2085	MN BA928	Mfr Oregon Scientific	SN C3166-1	Asset 831	Cat I	Calibration Due 4/28/2018	Calibrated on 4/28/2016
	MN HTC-1	Mfr HDE	SN 2085	Asset 2085	Cat II	Calibration Due 4/5/2017	Calibrated on 4/5/2016

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Plots

Continued on next page

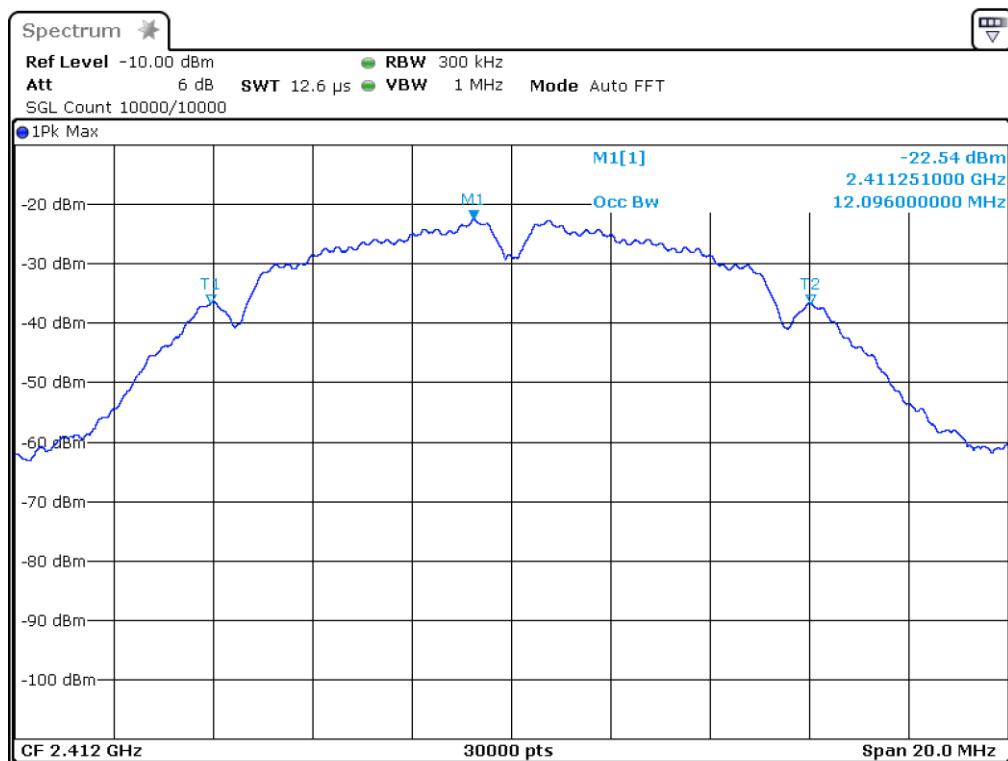


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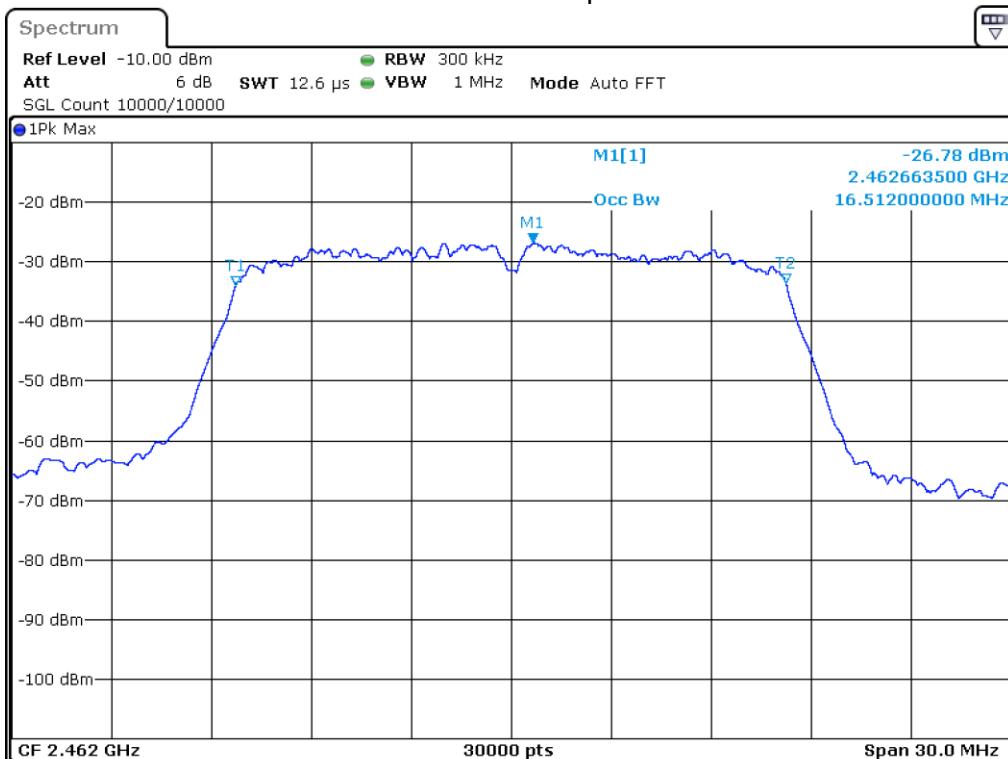
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Date: 20.JUL.2016 09:47:58

99% OBW 802.11b 2Mbps 2412MHz



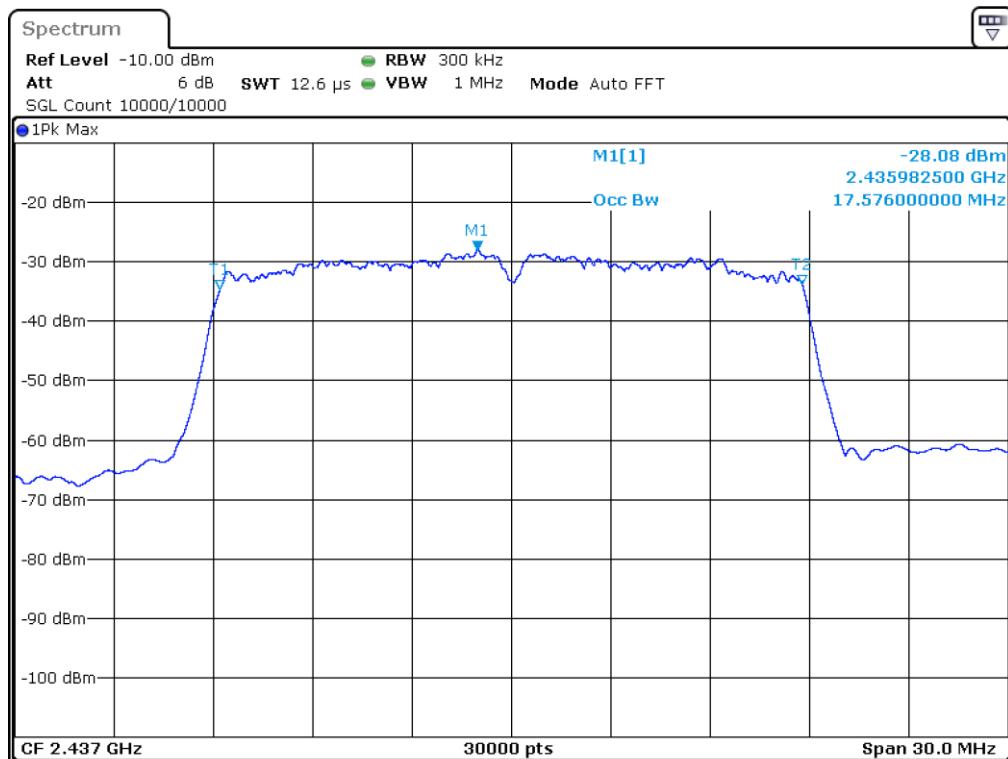
Date: 20.JUL.2016 09:26:04

99% OBW 802.11g 36Mbps 2462MHz



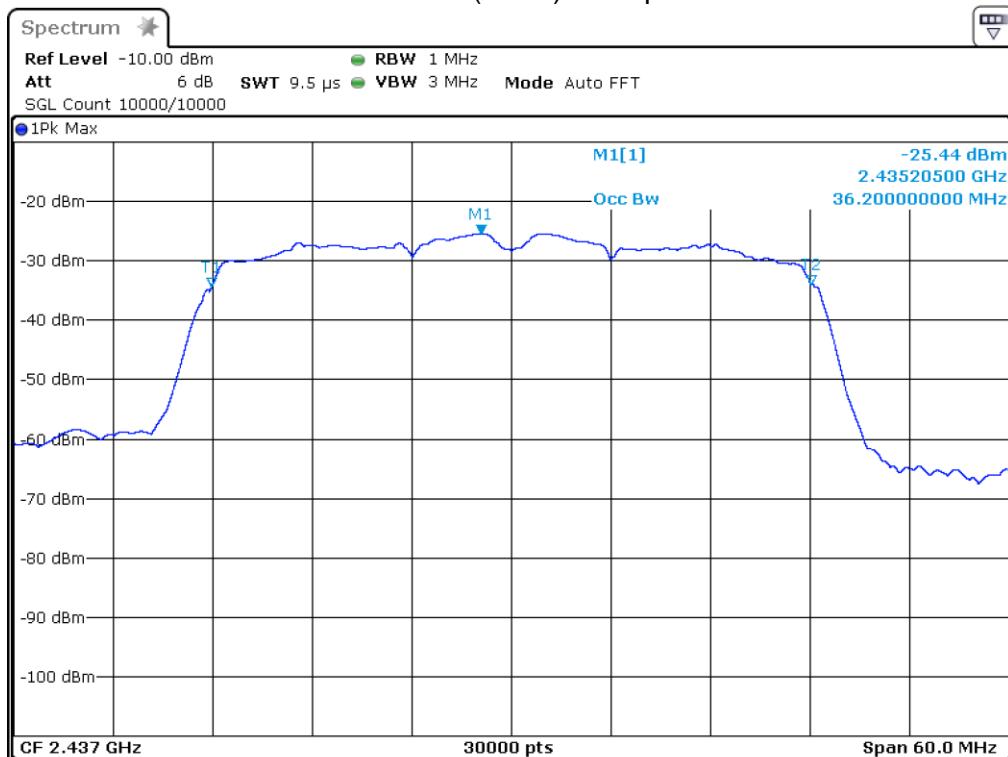
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Date: 20.JUL.2016 10:29:31

99% OBW 802.11n (HT20) 52Mbps 2437MHz



Date: 20.JUL.2016 10:47:26

99% OBW 802.11n (HT40) 13.5Mbps 2437MHz



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Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radiated Emissions (30-1000MHz)		
NIST	5.6dB	N/A
CISPR	4.6dB	5.2dB (Ucispr)
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions		
NIST	3.9dB	N/A
CISPR	3.6dB	3.6dB (Ucispr)
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency (@ 2.4GHz)	3.23×10^{-8}	1×10^{-7}
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation:		
• Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency	3.4% 0.3dB	5% 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
Conducted emission of receivers	1.3dB	3dB
Radiated emission of transmitter, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of transmitter, valid up to 80GHz	3.3dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Humidity	2.37%	5%
Temperature	0.7°C	1.0°C
Time	4.1%	10%
RF Power Density, Conducted	0.4dB	3dB
DC and low frequency voltages	1.3%	3%
Voltage (AC, <10kHz)	1.3%	2%
Voltage (DC)	0.62%	1%
The above reflects a 95% confidence level		



Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "**BUREAU VERITAS**," "**BUREAU VERITAS CONSUMER PRODUCTS SERVICES**," "**BVCPs**," "**MTL**," "**ACTS**," "**MTL-ACTS**" and **CURTIS-STRAUS** (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.
13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.
14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.



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15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B) NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.

17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

The complete list of the Approved Subcontractors Curtis-Straus may use to delegate the performance of work can be provided upon request. Rev.160009121(2)_#684340 v14CS



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