

EMC TEST REPORT

Report No.: 150500230TWN-001R1
Model No.: WiFiHU2s-c
Issued Date: May 23, 2017

Applicant: Radicom Research Inc.
2148 Bering Dr., San Jose, CA. 95131, USA

Test Method/ Standard: 47 CFR FCC Part 15.247 & ANSI C63.10:2013
KDB 558074 D01 v04

Test Site: 93910

Test By: Intertek Testing Services Taiwan Ltd.,
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The test report was prepared by:


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These measurements were taken by:


Durant Wei/ Engineer

The test report was reviewed by:


Name Jimmy Yang
Title Group Leader

Revision History

Report No.	Issue Date	Revision Summary
150500230TWN-001	Jun. 02, 2015	Original report
150500230TWN-001R1	May 23, 2017	Add greater gain antenna and installed in host for WiFiHU2s-c, after engineer judgment, the tests were considered necessary. See the Summary of Test Data.

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1. Summary of Test Data

Test Requirement	Applicable Rule (Section 15.247)	Result
Emissions In Restricted Frequency Bands (Radiated emission measurements)	15.247(d), 15.205, 15.209	Pass
Emission On The Band Edge	15.247(d), 15.205	Pass
Maximum Peak Conducted Output Power	15.247(b)(3)	Add greater gain antenna and installed in host, after confirmation, the difference does not affect the Output Power. Then the test data in this report based on report of 150500230TWN-001.

2. General Information

2.1 Identification of the EUT

Product:	USB WiFi Module
Model No:	WiFiHU2s-c
FCC ID:	K7T-WIFIHU2S
Operating Frequency:	2412 MHz ~ 2462 MHz for 802.11b, 802.11g, 802.11n (HT20) 2422 MHz ~ 2452 MHz for 802.11n (HT40)
Channel Number:	11 channels for 2412 MHz ~ 2462 MHz 9 channels for 2422 MHz ~ 2452 MHz
Frequency of Each Channel:	2407+5 k MHz, k=1~11 for 802.11b, 802.11g, 802.11n HT20 2407+5 k MHz, k=3~9 for 802.11n (HT40)
Access scheme:	DSSS, OFDM
Rated Power:	DC 5V from Notebook
Power Cord:	N/A
Sample Received:	May 19, 2017
Sample condition:	Workable
Test Date(s):	May 19, 2017 ~ May 22, 2017

Note 1: The test report only allows to be revised within three years from its original issued date unless further standard or the requirement was noticed.

Note 2: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

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2.2 Description of EUT

Modulation mode	Transmit path	
	Chain 0 / Main	Chain 1 / AUX
802.11b	V	X
802.11g	V	X
802.11 n (HT20)	V	X
802.11 n (HT40)	V	X

Product SW/HW version :	SW: V010 / HW: RA6/RA7
Radio SW/HW version :	SW: V010 / HW: RA6/RA7
Test SW Version :	V010_RTL11n_SingleChip_9xC_USB_v010_20100428

2.3 Antenna description

The antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but DOES NOT use a standard antenna jack or electrical connector.

Antenna Gain : 5 dBi
 Antenna Type : Dipole antenna
 Connector Type : SMA-R

2.4 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Data cable
Notebook PC	DELL	Latitude D610	4YWZK1S	USB 0.5 meter × 1

2.5 Operation mode

The EUT was supplied with DC 5V from Notebook PC.

TX-MODE was based on a specific test program “MP819xVC.exe program”, and the program could select different frequency and modulation.

With individual verifying, the maximum output power were found out 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n(HT20) mode and 13.5 Mbps data rate for 802.11n(HT40) mode, the final tests were executed under these conditions recorded in this report individually.

The final tests were executed under these conditions recorded in this report individually.

802.11b ch6 chain0		802.11g ch6 chain0		802.11n HT20 ch6 chain0	
Data rate (Mbps)	AV (dBm)	Data rate (Mbps)	AV (dBm)	Data rate (Mbps)	AV (dBm)
1	15.88	6	15.36	MCS0	13.63
2	15.73	9	15.25	MCS1	13.51
5.5	15.61	12	15.12	MCS2	13.38
11	15.48	18	14.96	MCS3	13.27
-	-	24	14.88	MCS4	13.14
-	-	36	14.74	MCS5	13.00
-	-	48	14.71	MCS6	12.87
-	-	54	14.58	MCS7	12.73

2.6 Applied test modes and channels

Test items	Mode	Data Rate (Mbps)	Channel
Radiated spurious Emission 9kHz~1GHz	Worst case		
Radiated Spurious Emission 1GHz~10 th Harmonic	802.11 b	1	1, 6, 11
	802.11 g	6	1, 6, 11
	802.11 n (HT20)	6.5	1, 6, 11
	802.11 n (HT40)	13.5	3, 6, 9
Emission on the Band Edge	802.11 b	1	1, 6, 11
	802.11 g	6	1, 6, 11
	802.11 n (HT20)	6.5	1, 6, 11
	802.11 n (HT40)	13.5	3, 6, 9

3. Emissions In Restricted Frequency Bands (Radiated emission measurements)

3.1 Operating environment

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure	1008	hPa
Requirement	15.247(d), 15.205, 15.209	

3.2 Limit for emission in restricted frequency bands (Radiated emission measurement)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	2400/F(kHz)	30
1.705~30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

3.3 Measuring instrument setting

Below 1GHz measurement

Receiver settings	
Receiver function	Setting
Detector	QP
RBW	9-150 kHz ; 200-300 Hz 0.15-30 MHz; 9-10 kHz 30-1000 MHz; 100-120 kHz
VBW	$\geq 3 \times \text{RBW}$
Sweep	Auto couple
Attenuation	Auto

Above 1GHz measurement

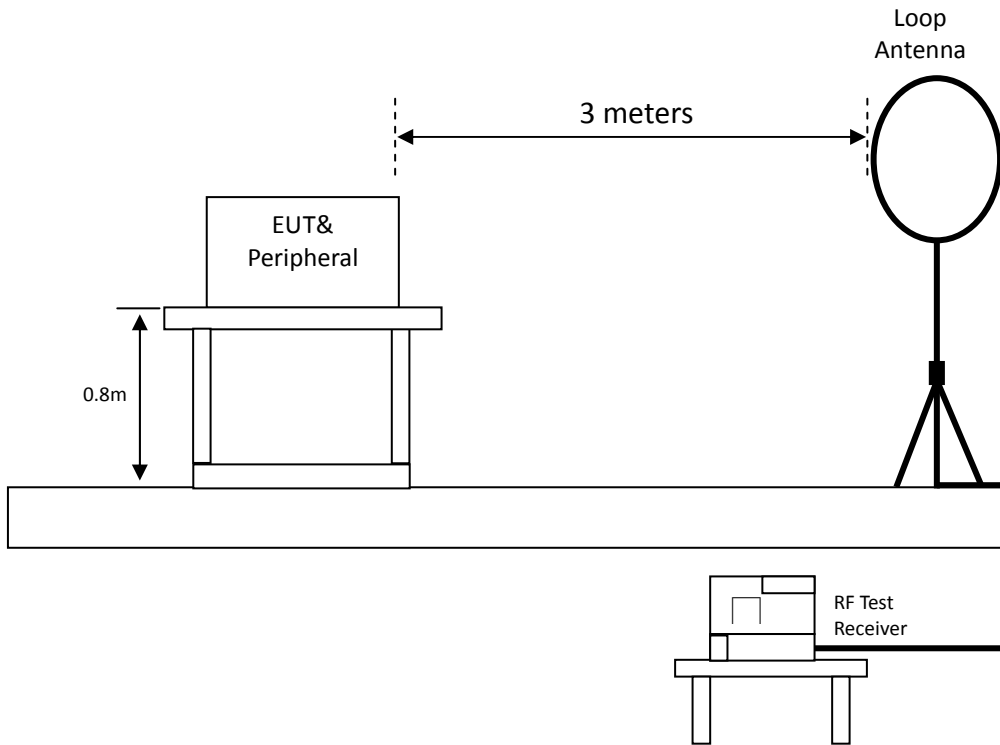
Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Detector	Peak
RBW	1MHz
VBW	3MHz for Peak and Average
Sweep	Auto couple
Start Frequency	1GHz
Stop Frequency	Tenth harmonic
Attenuation	Auto

3.4 Test procedure

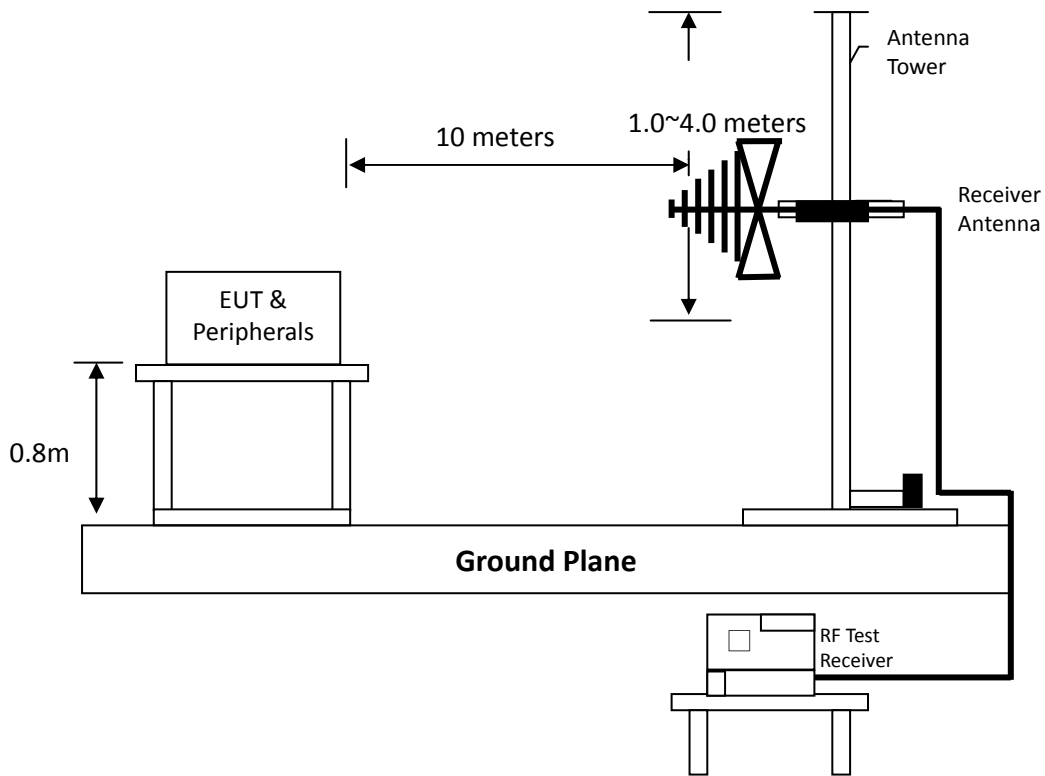
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter or 1.5 meter above ground. The center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the companion devices. The turntable was rotated by 360 degree to find the position of the maximum emission level.
3. The height of the receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of the both horizontal and vertical polarization
4. If find the frequencies above the limit or below within 3dB, the antenna tower was scan (from 1m to 4m) and then the turntable was rotated to find the maximum reading.
5. Set the test-receiver system to peak or CISPR quasi-peak detector with specified bandwidth under maximum hold mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak and average reading Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
7. If the emissions level of the EUT in peak mode was 3dB lower than the average limit specified then testing will be stopped and peak values of the EUT will be reported. Otherwise, the emissions which do not have 3dB margin will be measured using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, The emissions level of the EUT in peak mode was lower than average limit, then testing will be stopped and peak values of the EUT will be reported, otherwise, the emission will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be quasi-peak measured by receiver.

3.5 Test configuration

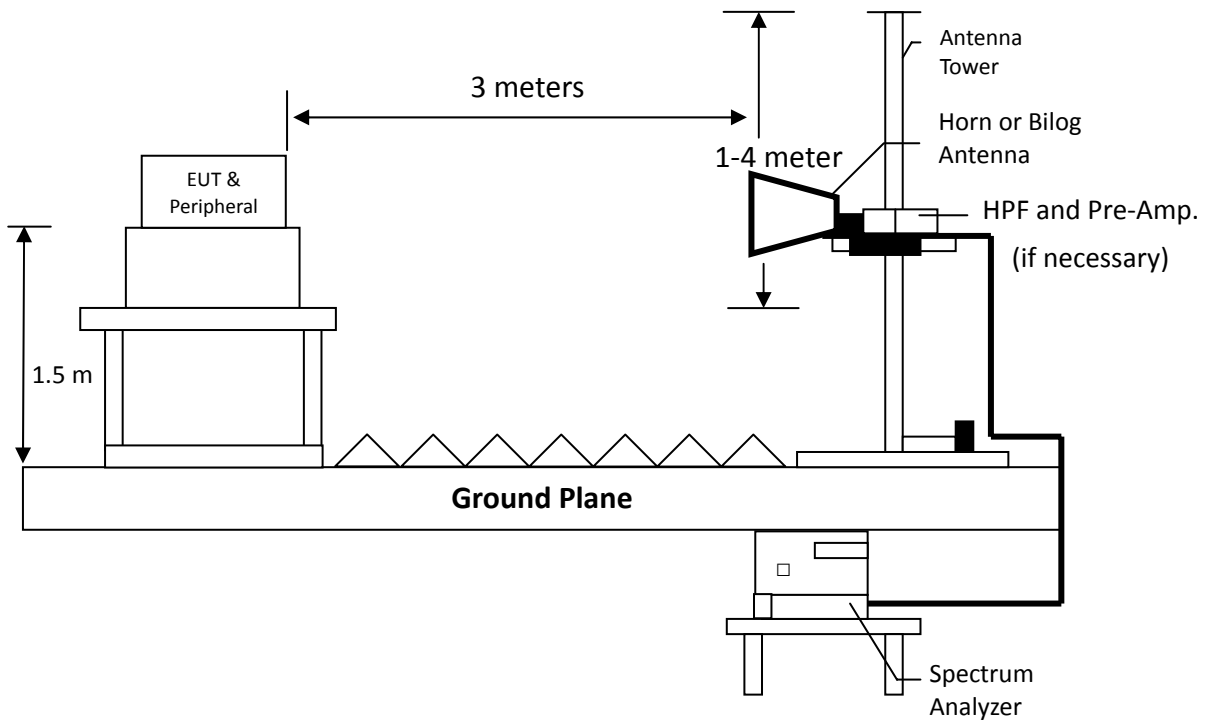
3.5.1 Radiated emission from 9kHz to 30MHz uses Loop Antenna:



3.5.2 Radiated emission below 1GHz using Bilog Antenna



3.5.3 Radiated emission above 1GHz using Horn Antenna



3.6 Test result

3.6.1 Measurement results: frequencies 9kHz to 30MHz

EUT : WiFiHU2s-c

Frequency (MHz)	Detector	Corr. Factor (dB/m)	Reading (dB μ V)	Calculated level (dB μ V/m)	Limit @ 3m (dB μ V/m)	Margin (dB)
0.01	QP	95.30	-44.72	50.58	127.60	-77.02
0.02	QP	90.60	-37.04	53.56	121.58	-68.02
0.03	QP	85.90	-31.11	54.79	118.06	-63.27
0.04	QP	83.20	-34.15	49.05	115.56	-66.51
0.09	QP	75.46	-31.51	43.95	108.52	-64.57
0.12	QP	73.23	-28.36	44.87	106.02	-61.15
0.27	QP	65.96	-13.77	52.19	98.98	-46.79
0.75	QP	57.50	-11.51	45.99	70.10	-24.11
0.87	QP	56.16	-12.46	43.70	68.81	-25.11
1.11	QP	54.18	-13.92	40.26	66.70	-26.44
1.52	QP	52.26	-13.15	39.11	63.97	-24.86
1.76	QP	51.13	-13.07	38.06	69.54	-31.48

Remark: Corr. Factor = Antenna Factor + Cable Loss - PreAmplifier Gain

3.6.2 Measurement results: frequencies below 1 GHz

The test was performed on EUT under 802.11b/g/n continuously transmitting mode. The worst case occurred at 802.11g channel 11.

EUT : WiFiHU2s-c
Worst Case : 802.11g channel 11

Antenna Polariz. (V/H)	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBμV)	Corrected Level (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
Vertical	41.64	QP	16.50	17.60	34.10	40.00	-5.90
Vertical	119.24	QP	13.78	18.01	31.79	43.50	-11.71
Vertical	173.56	QP	15.64	20.37	36.01	43.50	-7.49
Vertical	196.84	QP	13.86	24.60	38.46	43.50	-5.04
Vertical	233.70	QP	15.20	19.68	34.88	46.00	-11.12
Vertical	346.22	QP	18.64	15.49	34.13	46.00	-11.87
Horizontal	130.88	QP	14.99	14.20	29.19	43.50	-14.31
Horizontal	173.56	QP	15.64	17.10	32.74	43.50	-10.76
Horizontal	196.84	QP	13.86	20.14	34.00	43.50	-9.50
Horizontal	220.12	QP	14.66	19.78	34.44	46.00	-11.56
Horizontal	233.70	QP	15.20	20.03	35.23	46.00	-10.77
Horizontal	256.98	QP	16.03	17.77	33.80	46.00	-12.20

Remark: Corr. Factor = Antenna Factor + Cable Loss

3.6.3 Measurement results: frequency above 1GHz

EUT : WiFiHU2s-c

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Corr. Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3m (dBμV/m)	Margin (dB)
802.11b , Ch 1 2412MHz	4824	PK	V	40.10	-0.04	43.26	43.22	74.00	-30.78
	4824	PK	H	40.10	-0.04	44.86	44.82	74.00	-29.18
802.11b , Ch 6 2437MHz	4874	PK	V	40.00	0.13	41.52	41.65	74.00	-32.35
	4874	PK	H	40.00	0.13	44.24	44.37	74.00	-29.63
802.11b , Ch 11 2462MHz	4924	PK	V	39.91	0.30	39.44	39.74	74.00	-34.26
	4924	PK	H	39.91	0.30	43.83	43.79	74.00	-30.21
802.11g , Ch 1 2412MHz	4824	PK	V	40.10	-0.04	41.16	41.12	74.00	-32.88
	4824	PK	H	40.10	-0.04	42.42	42.38	74.00	-31.62
802.11g , Ch 6 2437MHz	4874	PK	V	40.00	0.13	41.01	41.14	74.00	-32.86
	4874	AV	H	40.00	0.13	43.29	43.42	54.00	-10.58
802.11g , Ch 11 2462MHz	4924	PK	V	39.91	0.30	40.46	40.76	74.00	-33.24
	4924	PK	H	39.91	0.30	40.87	41.17	74.00	-32.83
802.11n20 , Ch 1 2412MHz	4824	PK	V	40.10	-0.04	41.46	41.42	74.00	-32.58
	4824	PK	H	40.10	-0.04	43.95	43.91	74.00	-30.09
802.11n20 , Ch 6 2437MHz	4874	PK	V	40.00	0.13	42.22	42.35	74.00	-31.65
	4874	PK	H	40.00	0.13	43.76	43.89	74.00	-30.11
802.11n20 , Ch 11 2462MHz	4924	PK	V	39.91	0.30	40.68	40.98	74.00	-33.02
	4924	PK	H	39.91	0.30	43.22	43.52	74.00	-30.48
802.11n40 , Ch 3 2422MHz	4844	PK	V	40.06	0.03	41.51	41.54	74.00	-32.46
	4844	PK	H	40.06	0.03	43.55	43.58	74.00	-30.42
802.11n40 , Ch 6 2437MHz	4874	PK	V	40.00	0.13	42.58	42.71	74.00	-31.29
	4874	PK	H	40.00	0.13	43.59	43.72	74.00	-30.28
802.11n40 , Ch 9 2452MHz	4904	PK	V	39.95	0.23	40.69	40.92	74.00	-33.08
	4904	PK	H	39.95	0.23	42.81	43.04	74.00	-30.96

Remark: Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain

4. Emission On Band Edge

4.1 Operating environment

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure	1008	hPa
Requirement	15.247(d), 15.205,	

4.2 Measuring instrument setting

Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Detector	Peak
RBW	1MHz
VBW	3MHz for Peak; 10Hz for Average
Sweep	Auto couple
Restrict bands	2310~2390MHz
	2483.5 ~2500MHz
Attenuation	Auto

4.3 Test procedure

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter or 1.5 meter above ground. The center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the companion devices. The turntable was rotated by 360 degree to find the position of the maximum emission level.
3. The height of the receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of the both horizontal and vertical polarization
4. If find the frequencies above the limit or below within 3dB, the antenna tower was scan (from 1m to 4m) and then the turntable was rotated to find the maximum reading.
5. Set the test-receiver system to peak or CISPR quasi-peak detector with specified bandwidth under maximum hold mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak and average reading Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
7. If the emissions level of the EUT in peak mode was 3dB lower than the average limit specified then testing will be stopped and peak values of the EUT will be reported. Otherwise, the emissions which do not have 3dB margin will be measured using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, The emissions level of the EUT in peak mode was lower than average limit, then testing will be stopped and peak values of the EUT will be reported, otherwise, the emission will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be quasi-peak measured by receiver.

4.4 Test results

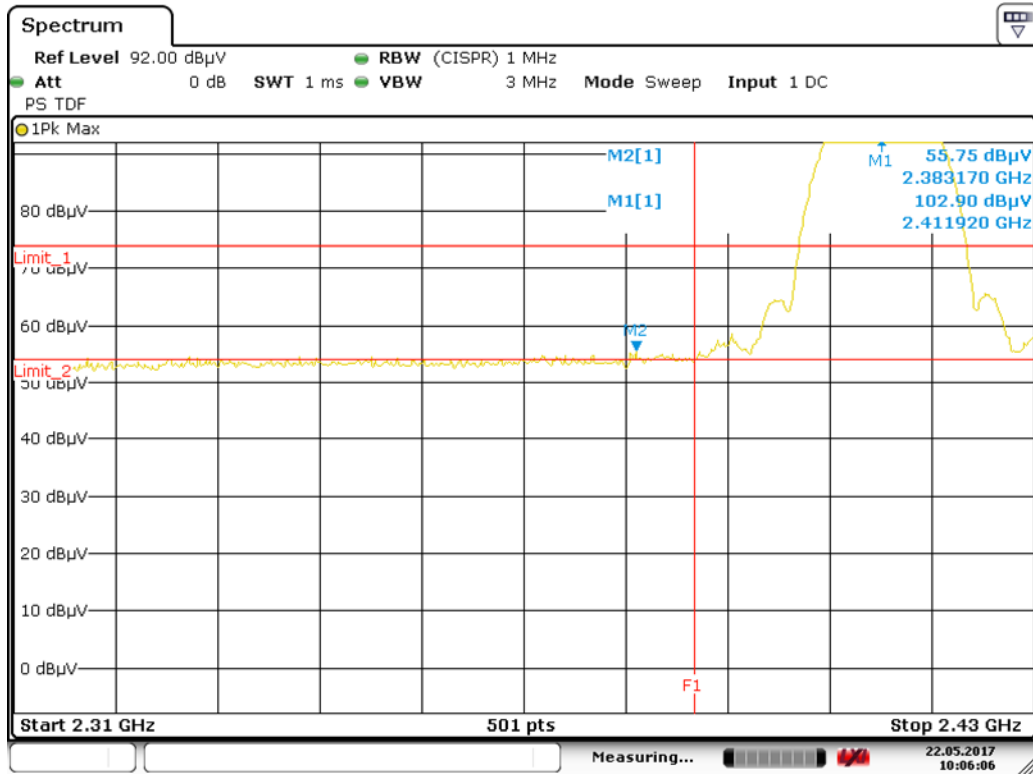
EUT : WiFiHU2s-c

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)	Restricted band (MHz)
802.11b	2383.17	PK	V	33.82	21.93	55.75	74	-18.25	2310~2390
	2386.05	AV	V	33.83	8.97	42.80	54	-11.20	
	2490.39	PK	V	34.33	22.73	57.06	74	-16.94	2483.5~2500
	2484.30	AV	V	34.30	10.87	45.17	54	-8.83	
802.11g	2388.44	PK	V	33.84	24.40	58.24	74	-15.76	2310~2390
	2390.00	AV	V	33.85	9.40	43.25	54	-10.75	
	2486.90	PK	V	34.32	26.86	61.18	74	-12.82	2483.5~2500
	2483.50	AV	V	34.30	10.69	44.99	54	-9.01	
802.11n (HT20)	2390.00	PK	V	33.85	23.81	57.66	74	-16.34	2310~2390
	2390.00	AV	V	33.85	9.37	43.22	54	-10.78	
	2485.98	PK	V	34.31	26.41	60.72	74	-13.28	2483.5~2500
	2483.50	AV	V	34.30	10.59	44.89	54	-9.11	
802.11n (HT40)	2385.93	PK	V	33.83	25.19	59.02	74	-14.98	2310~2390
	2390.00	AV	V	33.85	10.54	44.39	54	-9.61	
	2487.97	PK	V	34.32	26.94	61.26	74	-12.74	2483.5~2500
	2484.98	AV	V	34.31	12.15	46.46	54	-7.54	

Remark: Correction Factor = Antenna Factor + Cable

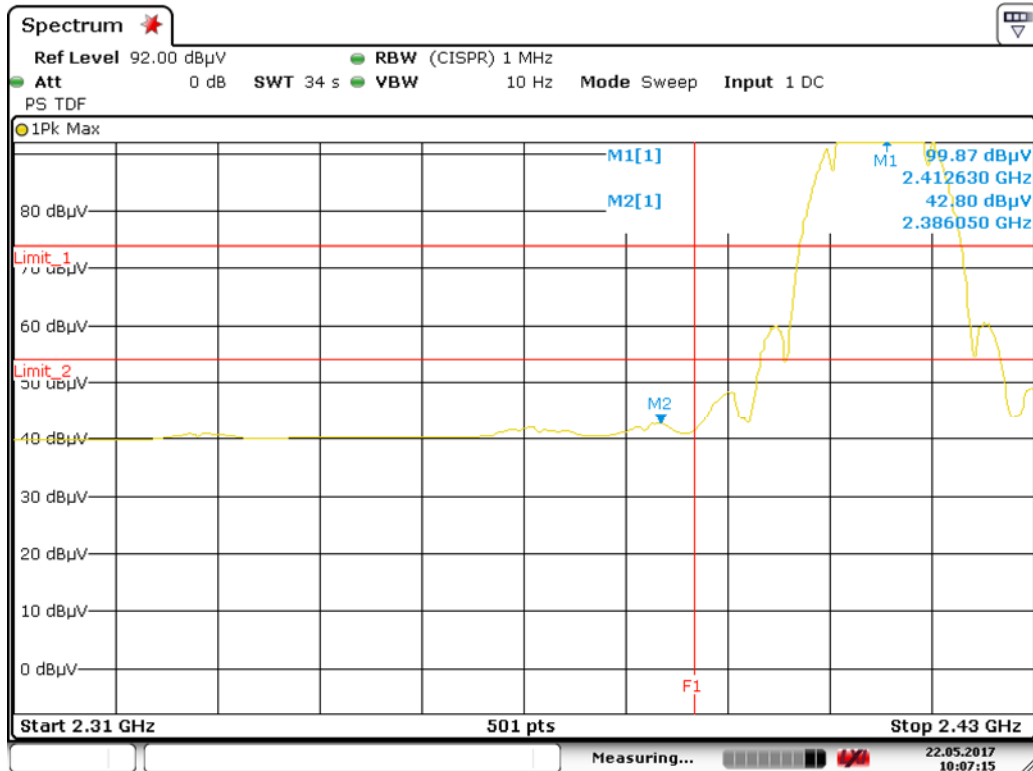
Loss

Chain0 : Bandedge @ 802.11b mode Ch 1 Peak



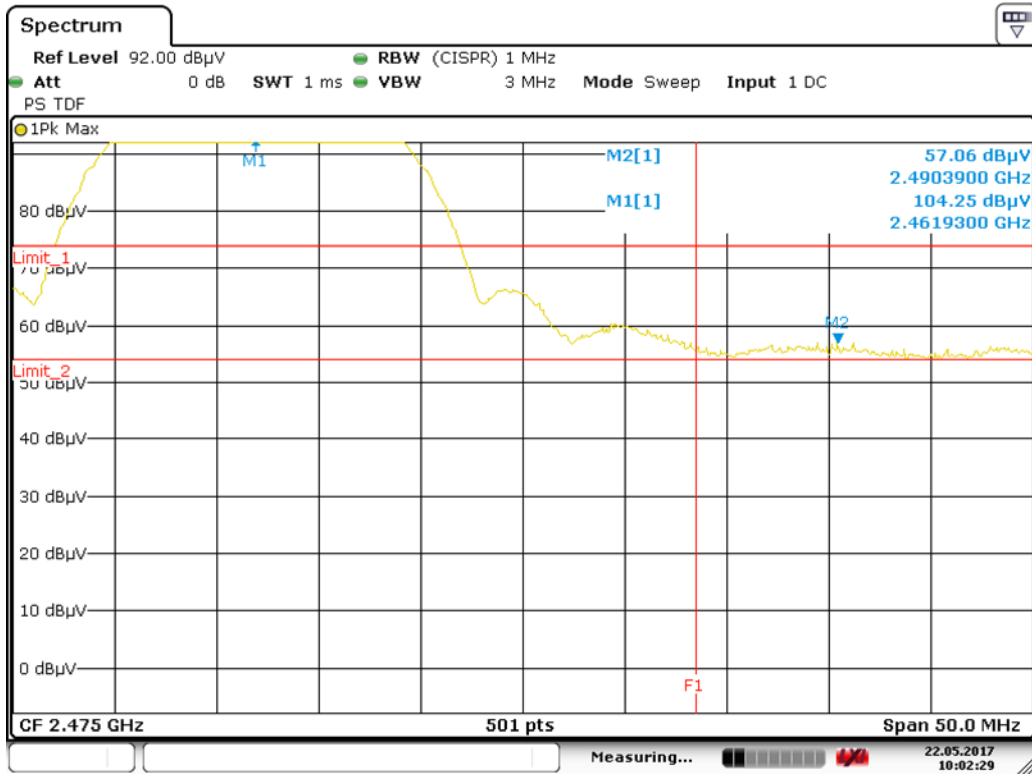
Date: 22.MAY.2017 10:06:06

Chain0 : Bandedge @ 802.11b mode Ch1 Average



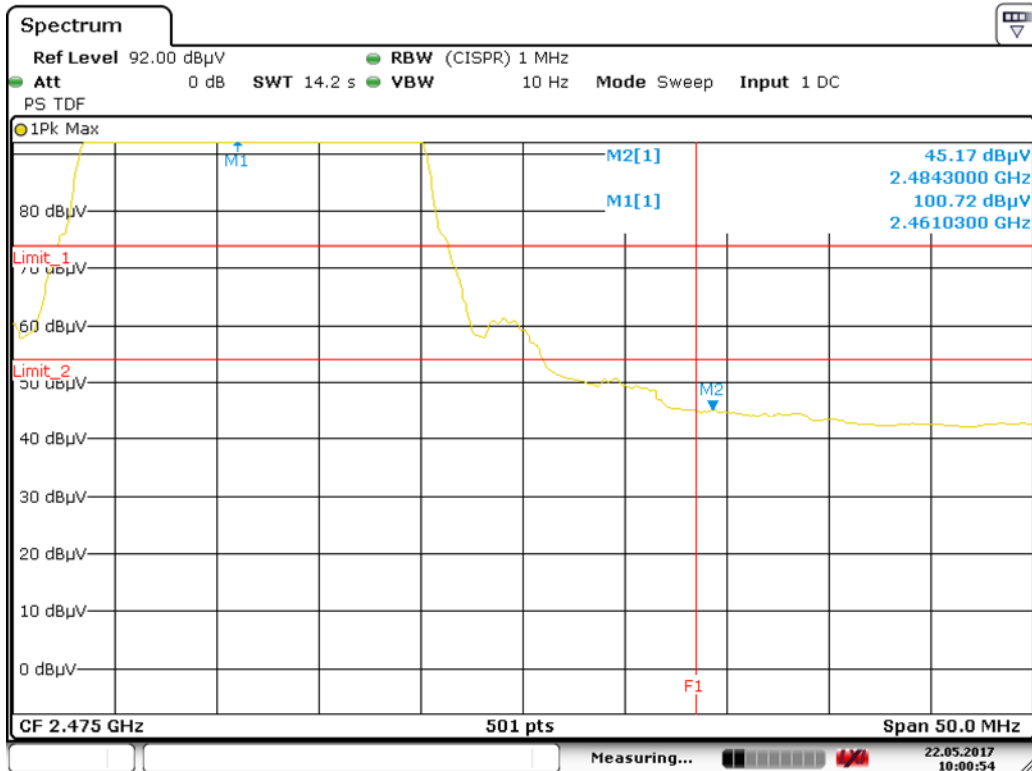
Date: 22.MAY.2017 10:07:16

Chain0 : Bandedge @ 802.11b mode Ch11 Peak



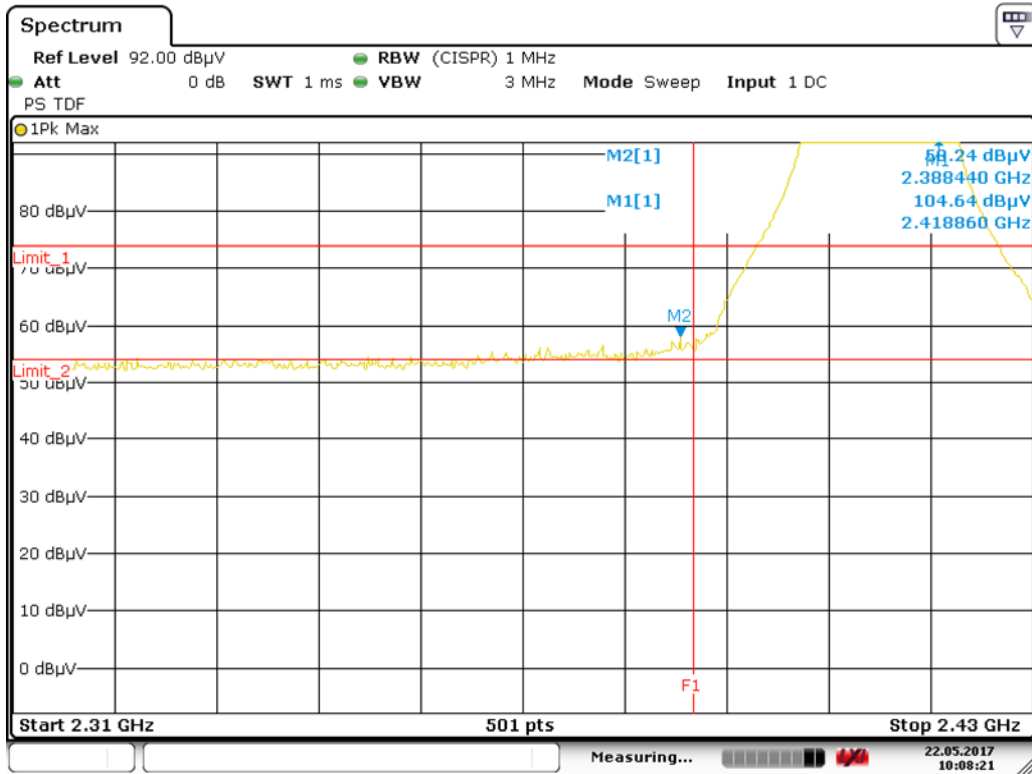
Date: 22.MAY.2017 10:02:30

Chain0 : Bandedge @ 802.11b mode Ch11 Average



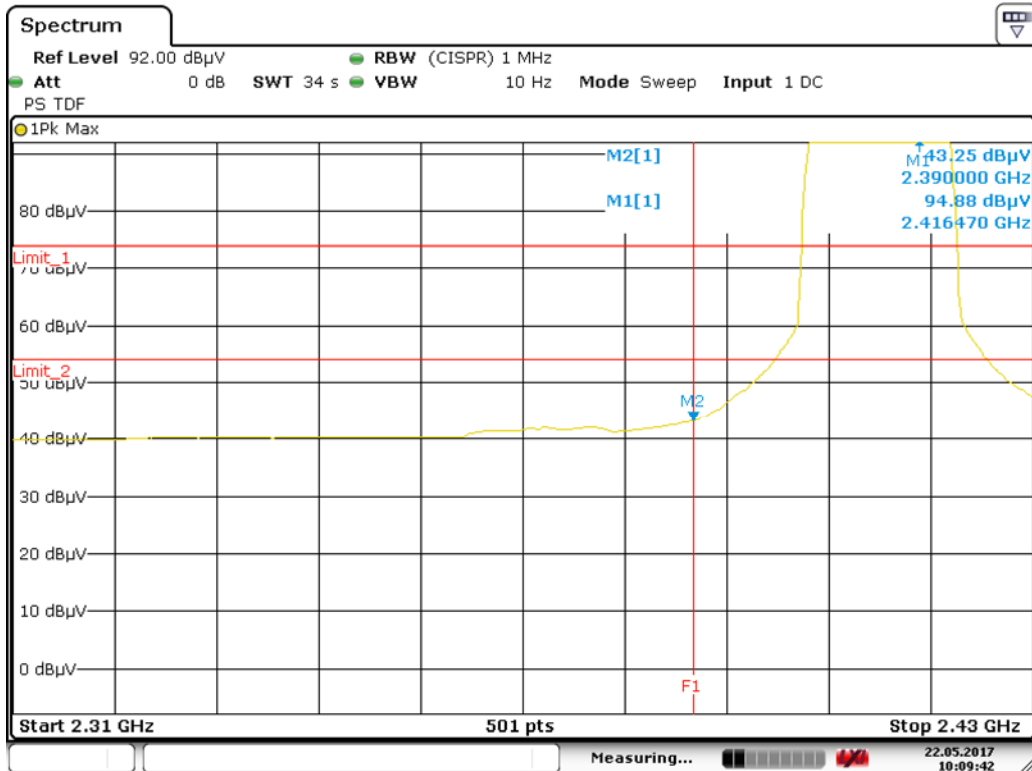
Date: 22.MAY.2017 10:00:54

Chain0 : Bandedge @ 802.11g mode Ch1 Peak



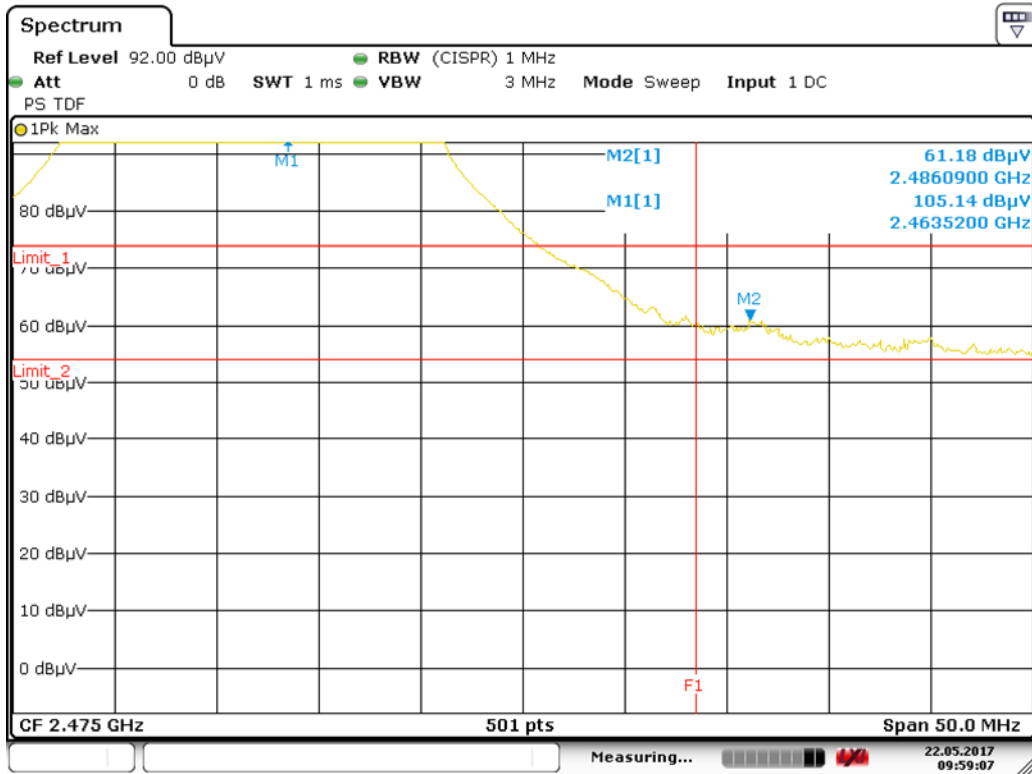
Date: 22.MAY.2017 10:08:21

Chain0 : Bandedge @ 802.11g mode Ch1 Average



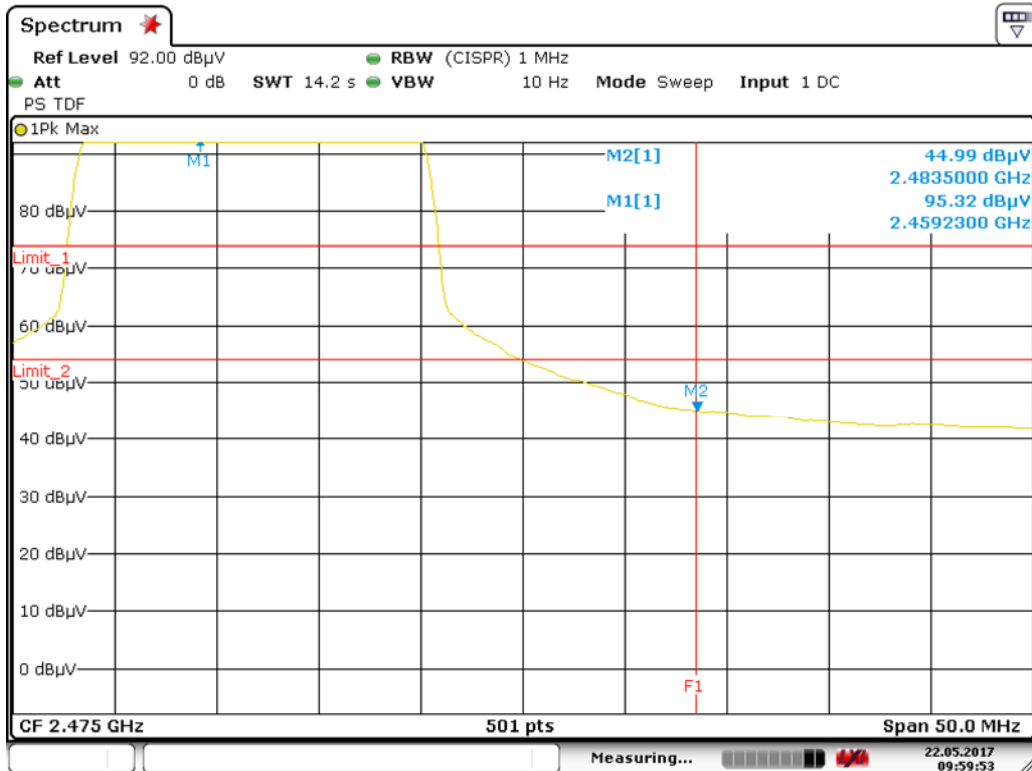
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Chain0 : Bandedge @ 802.11g mode Ch 11 Peak



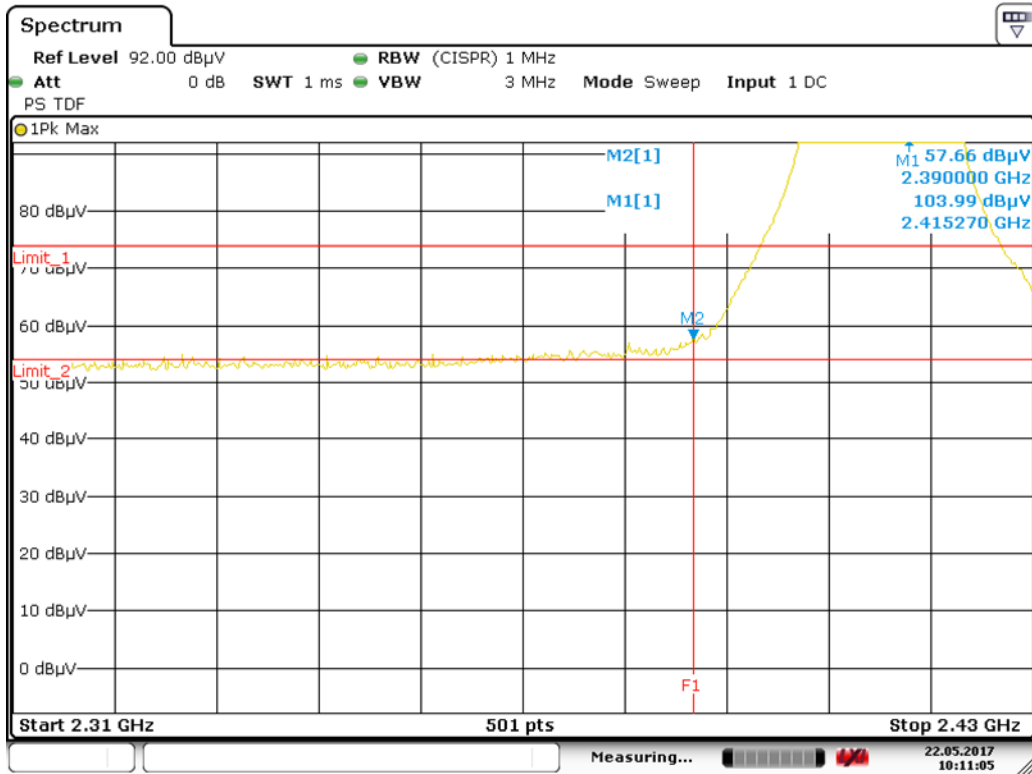
Date: 22.MAY.2017 09:59:07

Chain0 : Bandedge @ 802.11g mode Ch11 Average



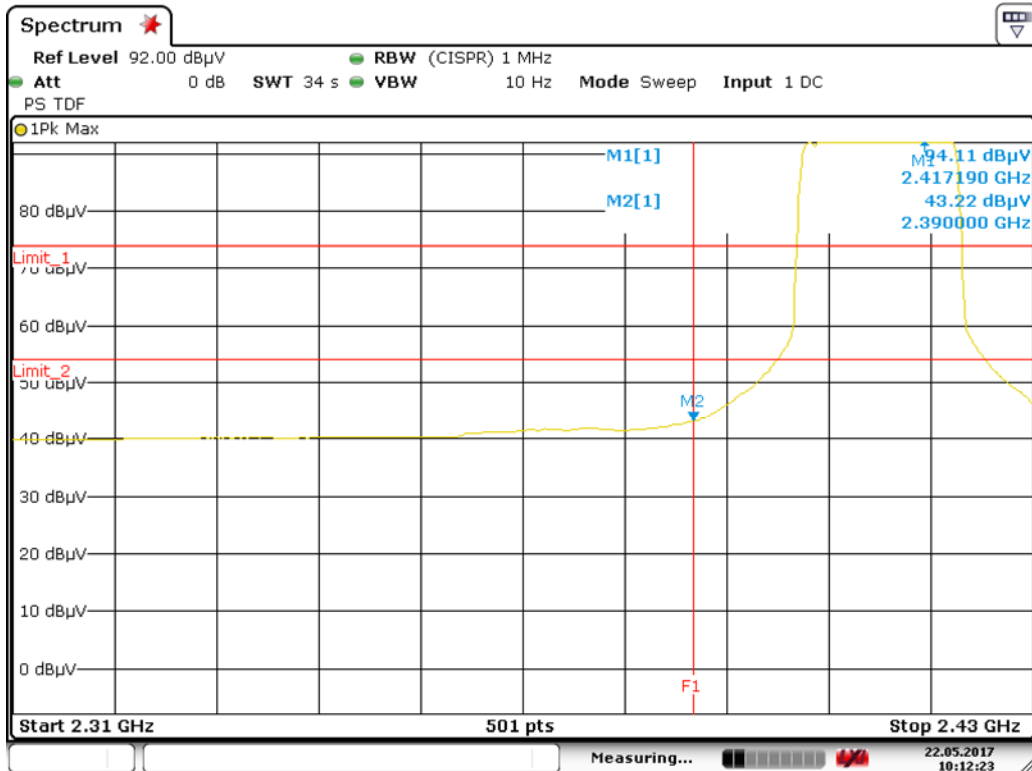
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Chain0 : Bandedge @ 802.11 n(HT20) mode Ch 1 Peak



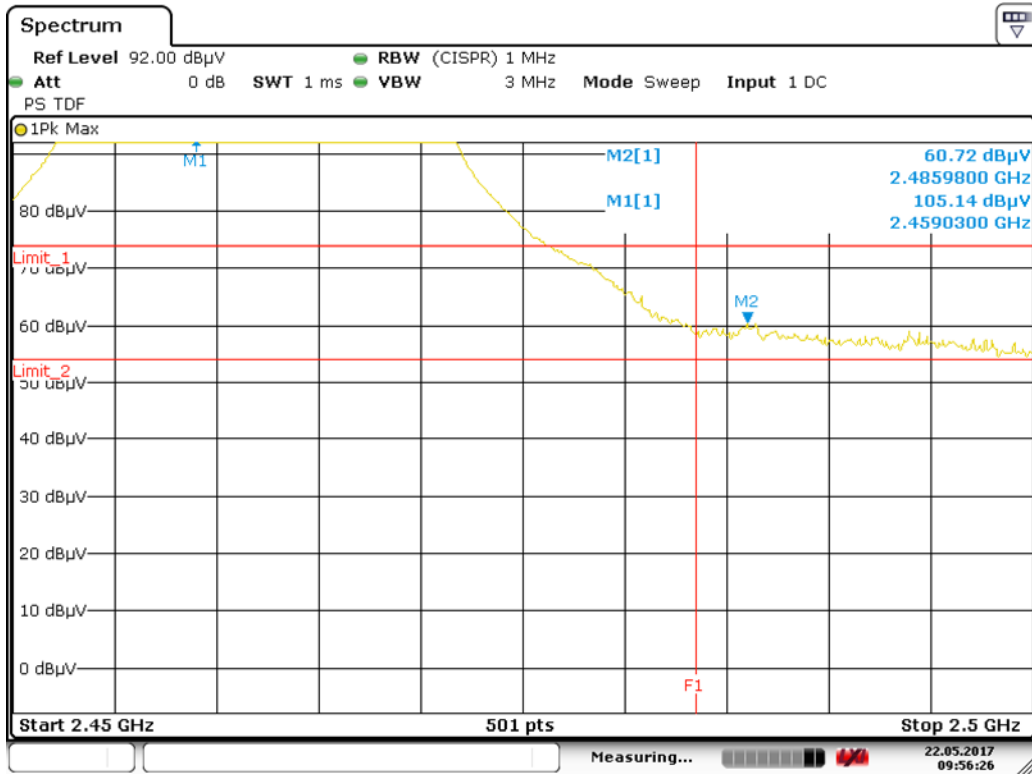
Date: 22.MAY.2017 10:11:05

Chain0 : Bandedge @ 802.11 n(HT20) mode Ch1 Average



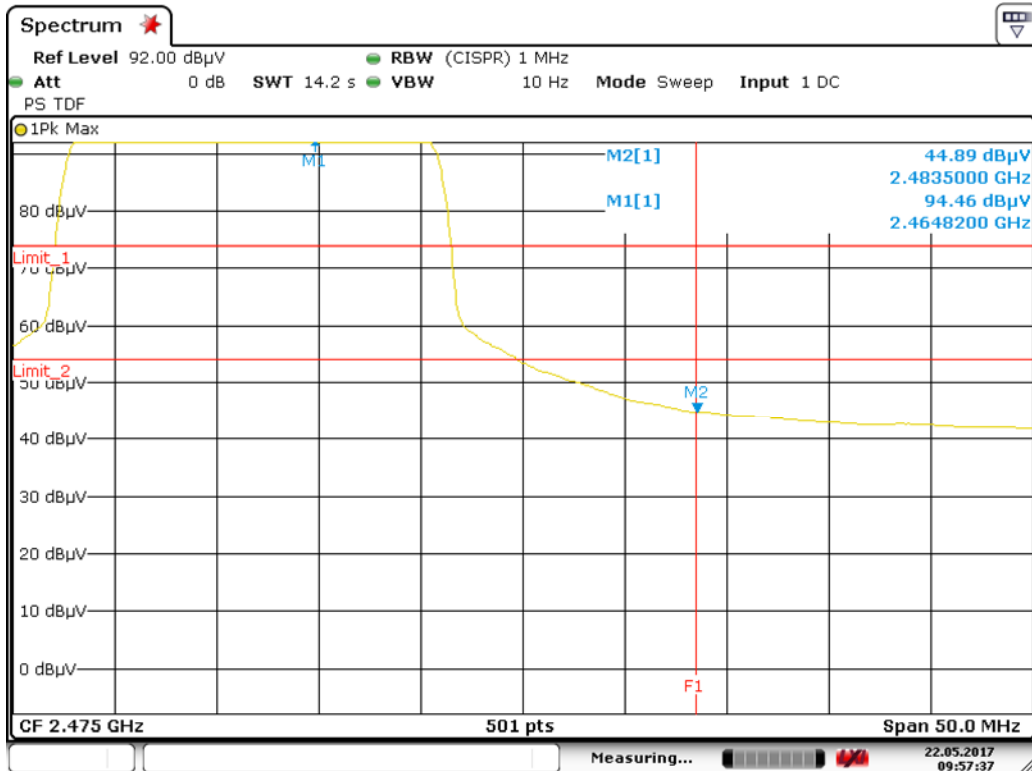
Date: 22.MAY.2017 10:12:23

Chain0 : Bandedge @ 802.11 n(HT20) mode Ch 11 Peak



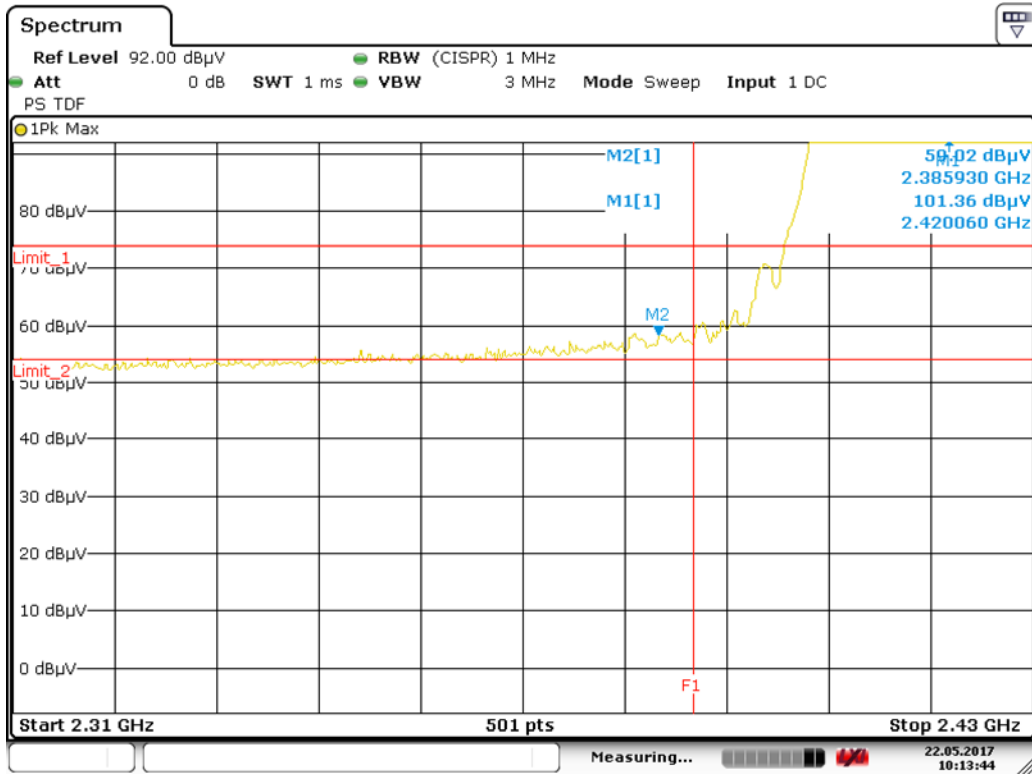
Date: 22.MAY.2017 09:56:26

Chain0 : Bandedge @ 802.11 n(HT20) mode Ch11 Average



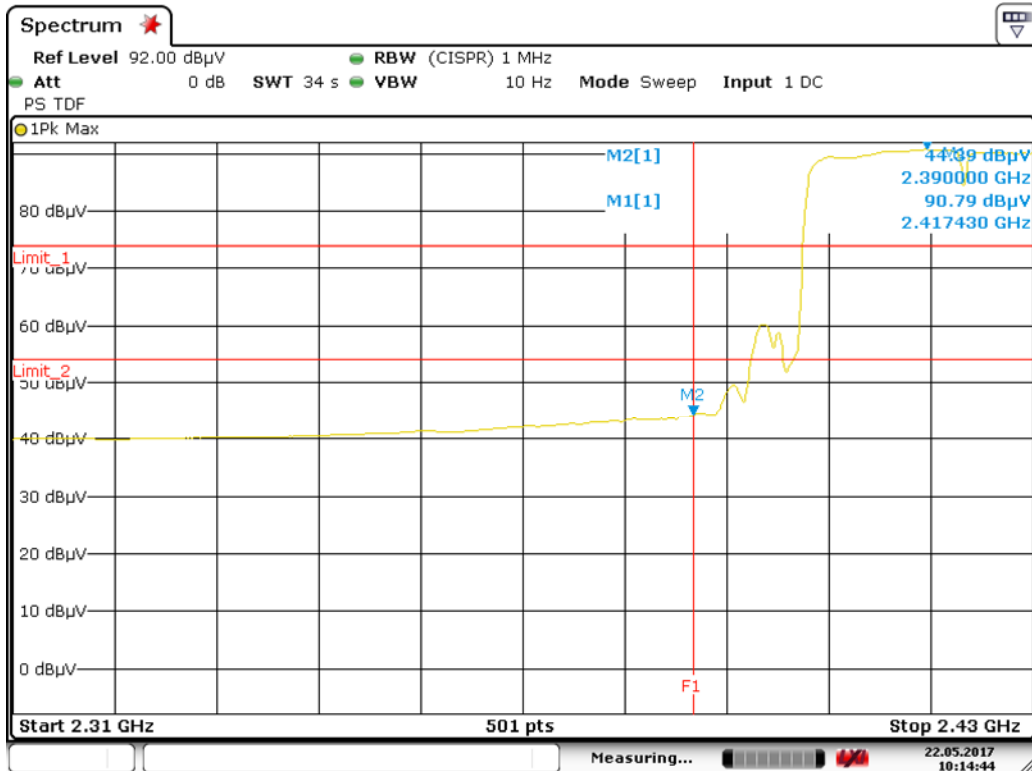
Date: 22.MAY.2017 09:57:38

Chain0 : Bandedge @ 802.11 n(HT40) mode Ch 3 Peak



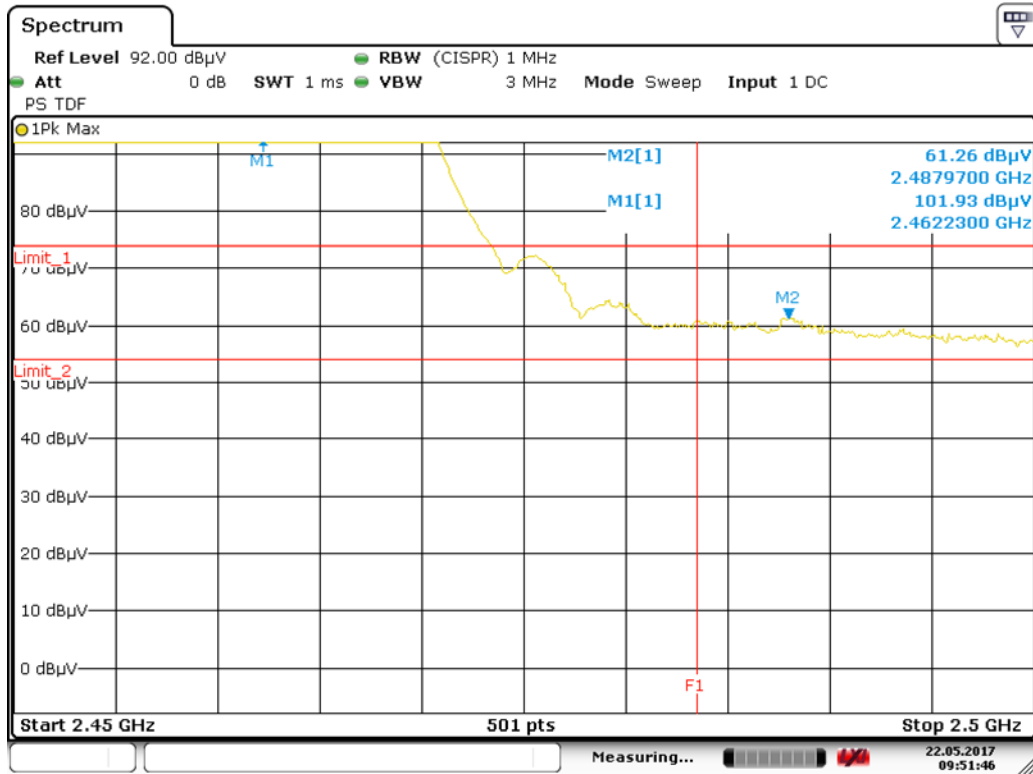
Date: 22.MAY.2017 10:13:44

Chain0 : Bandedge @ 802.11 n(HT40) mode Ch3 Average



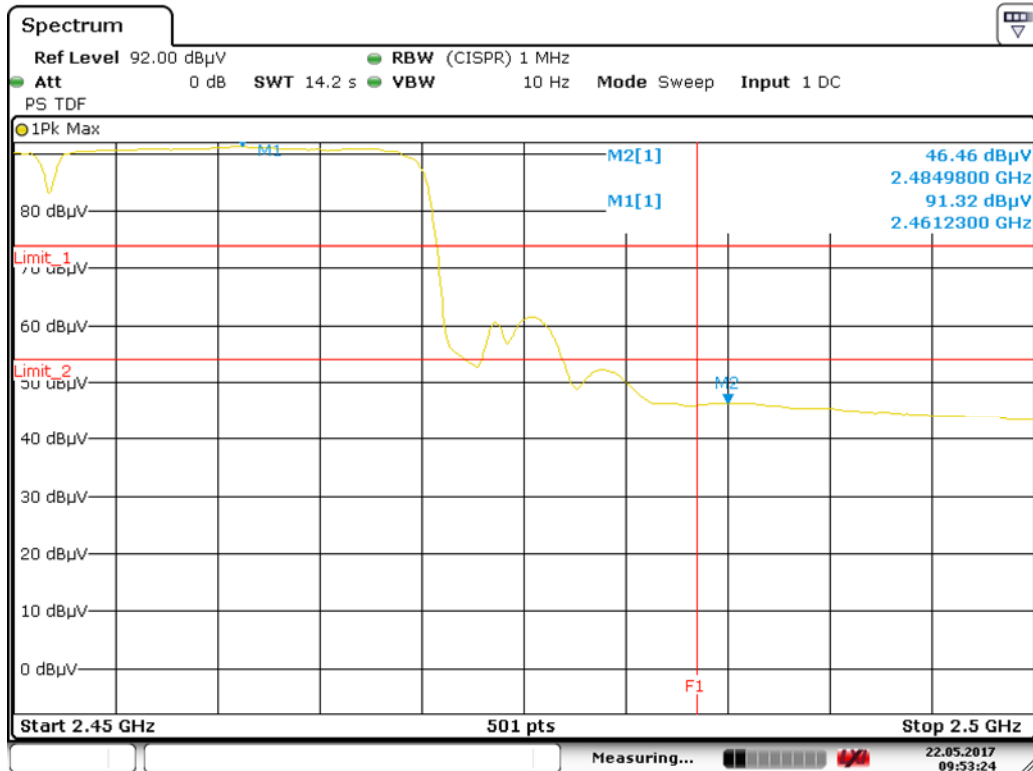
Date: 22.MAY.2017 10:14:44

Chain0 : Bandedge @ 802.11 n(HT40) mode Ch 9 Peak



Date: 22.MAY.2017 09:51:46

Chain0 : Bandedge @ 802.11 n(HT40) mode Ch9 Average



Date: 22.MAY.2017 09:53:24

5. Maximum Peak Conducted Output Power

5.1 Operating environment

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure	1008	hPa
Requirement & Test method	15.247(b)(3) KDB 558074 D01 v04	

5.2 Limit for maximum peak conducted output power

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt (30dBm)

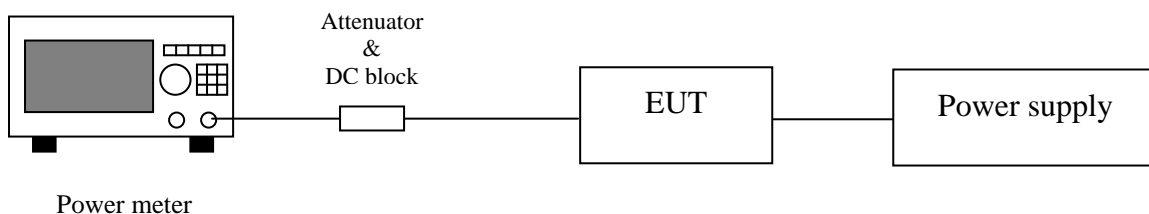
5.3 Measuring instrument setting

Power meter	
Power meter	Setting
Bandwidth	65MHz bandwidth is greater than the EUT emission bandwidth
Detector	Peak & Average

5.4 Test procedure

Test procedures refer to clause 9.1.3 peak power meter method and clause 9.2.3.2 measurement using a gated RF average power meter of KDB 558074 D01.

5.5 Test diagram



5.6 Test result

For WiFiHU2s-c:

Single TX

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Output Power (AV) (dBm)	Total Power (AV) (mW)	Maximun power (PK) (dBm)	Maximun power (PK) (mW)	Limit (dBm)	Margin (dB)
802.11b (chain0)	1	2412	1	15.77	37.76	17.85	60.95368972	30	-12.15
	6	2437		15.88	38.73	17.92	61.94410751	30	-12.08
	11	2462		15.54	35.81	17.5	56.23413252	30	-12.50
802.11g (chain0)	1	2412	6	15.41	34.75	23.46	221.819642	30	-6.54
	6	2437		15.36	34.36	22.89	194.5360082	30	-7.11
	11	2462		15.04	31.92	22.12	162.9296033	30	-7.88
802.11g (chain1)	1	2412	6	14.37	27.35	22.77	189.2343619	30	-7.23
	6	2437		14.18	26.18	22.04	159.9558029	30	-7.96
	11	2462		13.5	22.39	21.02	126.4736347	30	-8.98

2TX

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Output Power (dBm)				Output Power (mW)				Total Power (dBm)				Limit (dBm)	Margin (dB)
				Chian 0		Chain 1		Chain 0		Chian 1		AV		PK			
				AV	PK	AV	PK	AV	PK	AV	PK	0+1 (mW)	0+1 (dBm)	0+1 (mW)	0+1 (dBm)		
802.11n (HT20)	1	2412	6.5	13.5	21.61	12.37	20.28	22.39	144.88	17.26	106.66	39.65	15.98	251.54	24.01	30	-5.99
	6	2437		13.63	21.43	12.52	20.53	23.07	139.00	17.86	112.98	40.93	16.12	251.97	24.01	30	-5.99
	11	2462		13.46	20.84	12.06	19.45	22.18	121.34	16.07	88.10	38.25	15.83	209.44	23.21	30	-6.79
802.11n (HT40)	3	2422	13	13.19	20.73	12.24	20.04	20.84	118.30	16.75	100.93	37.59	15.75	219.23	23.41	30	-6.59
	6	2437		13.29	20.55	12.01	19.71	21.33	113.50	15.89	93.54	37.22	15.71	207.04	23.16	30	-6.84
	9	2452		13.19	20.17	11.97	19.63	20.84	103.99	15.74	91.83	36.58	15.63	195.83	22.92	30	-7.08

Appendix A: Test equipment list

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
ESCI EMI Test Receiver	Rohde & Schwarz	ESCI	100018	2016/11/30	2017/11/29
Spectrum Analyzer	Rohde & Schwarz	FSP30	100137	2016/08/16	2017/08/15
Horn Antenna (1-18G)	SHWARZBECK	BBHA 9120 D	9120D-456	2014/08/29	2017/08/27
Horn Antenna (14-42G)	SHWARZBECK	BBHA 9170	BBHA9170159	2014/09/16	2017/09/14
Broadband Antenna	SHWARZBECK	VULB 9168	9168-172	2017/04/05	2018/04/04
Pre-Amplifier	EMC Co.	EMC12635SE	980205	2016/10/08	2017/10/07
Pre-Amplifier	MITEQ	JS4-26004000--27-8A	828825	2016/09/12	2017/09/11
Power Meter	Anritsu	ML2495A	0844001	2016/11/09	2017/11/08
Power Sensor	Anritsu	MA2411B	0738452	2016/11/09	2017/11/08
Signal Analyzer	Agilent	N9030A	MY51380492	2016/09/13	2017/09/12
966-2(A) Cable 9kHz~26.5GHz	SUHNER	SMA / EX 100	N/A	2016/08/16	2017/08/15
966-2(B) Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 104P	CB0005	2016/08/16	2017/08/15
RF Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 102	CB0006	2017/05/04	2018/05/03
966-2_3m Semi-Anechoic Chamber	966_2	CEM-966_2	N/A	2017/03/29	2018/03/28
High Pass Filter	Reactel	7HS-3G/18G-S1 1	N/A	2016/06/03	2017/06/02
Active Loop Antenna	SCHWARZBECK MESS-ELEKTRONIK C	FMZB1519	1519-067	2017/03/30	2018/03/29

Note: No Calibration Required (NCR).

Appendix B: Measurement Uncertainty

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

Item	Uncertainty
Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.14 dB
Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.22 dB
Vertically polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.64 dB
Horizontally polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.64 dB
Vertically polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	2.68 dB
Horizontally polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	2.68 dB
Radiated disturbances from 9kHz~30MHz in a semi-anechoic chamber at a distance of 3m	3.54 dB
Emission on the Band Edge Test	3.64 dB