

Report No.: SEWM2302000052RG05

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TEST REPORT

Application No.: SEWM2302000052RG

Applicant: KonnectOne,LLC

Address of Applicant: 40 Lake Bellevue, Suite 350, Bellevue, WA 98005

Manufacturer: KonnectOne,LLC

Address of Manufacturer: 40 Lake Bellevue, Suite 350, Bellevue, WA 98005

EUT Description: Smart phone
Model No.: MH-T6000
Trade Mark: moxee

FCC ID: 2APQU-MH-T6000

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/02/22

Date of Test: 2023/02/26 to 2023/03/02

Date of Issue: 2023/03/02

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023/03/02		Original	

Prepared By	(King-p Li) / Test Engineer	
Checked By	well wei'	
	(Well Wei) / Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	1	Reference re SUZR/2021/90	
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle		-	Reference re SUZR/2021/90	
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Reference report SUZR/2021/9002505	
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2		
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	302172021790	02303
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11		
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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Remark:

This test report (Report No.: SEWM2302000052RG05 issue on 2023/03/02) is based on the original test report (Report No.: Reference report SUZR/2021/9002505 issue on 2021/12/13).

Reference detail section:

Therefore in this report AC Power Line Conducted Emission, Conducted Peak Output Power, Radiated Spurious Emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SUZR/2021/9002505 issue on 2021/12/13 and other items data in this report are based on the previous report with report number SUZR/2021/9002505 issue on 2021/12/13.



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3 General Information

3.1 Details of Client

Applicant:	KonnectOne,LLC
Address of Applicant:	40 Lake Bellevue, Suite 350, Bellevue, WA 98005
Manufacturer:	KonnectOne,LLC
Address of Manufacturer:	40 Lake Bellevue, Suite 350, Bellevue, WA 98005

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li, Ives Cheng

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Smart phone			
Model No.:	MH-T6000			
Trade Mark:	moxee			
Hardware Version:	Q6006_V1.0			
Software Version:	MH-T6000V1	I.0.0B010		
IMEI:	3500219849	64884		
0 " "	802.11b/g/n(HT20):	2412MHz to 2462MHz	
Operation Frequency:	802.11n(HT4	0):	2422MHz to 2452MHz	
Madulation Type:	802.11b:	DSSS (DBPSK, DQPSk	K, CCK)	
Modulation Type:	802.11g/n:	OFDM (BPSK, QPSK, 1	6QAM, 64QAM)	
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7			
Channel Spacing:	5MHz			
	⊠ SISO	802.11b/g/n		
	CDD: 802.11b/g/n: Tx 8		· Rx	
Smart System:	☐ MIMO	STBC: 802.11n: Tx & Rx		
		TXBF: 802.11n: Tx & Rx		
	Diversity	iversity 802.11b/g: Tx & Rx		
Antenna Type:	☐ External,	⊠ Integrated		
	3.01dBi			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1dB			
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				



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					ı ayc.	0 01 40	
	Operation Frequency of each channel (802.11b/g/n HT20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
		Operation Fr	equency of ea	ach channel ((802.11n HT40)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n (HT20)	Frequency for 802.11n (HT40)	
The Lowest channel	2412MHz	2422MHz	
The Middle channel	2437MHz	2437MHz	
The Highest channel	2462MHz	2452MHz	



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(℃) Voltage(V)			
NTNV	22~23	3.8		
Remark:				

NV: Normal Voltage

NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is Integrated Antenna and no consideration of replacement. The best case gain of the antenna is 3.01dBi.

Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz			
Limit:	Fraguency range (MHz)	Frequency range (MHz)			
	Frequency range (MHZ)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithms	arithm of the frequency.			
Test Procedure:	room. 2) The EUT was connect Impedance Stabilization impedance. The power of a second LISN 2, which we plane in the same way as multiple socket outlet strict single LISN provided the 3) The tabletop EUT was ground reference plane. placed on the horizontal 4) The test was performed the EUT shall be 0.4 novertical ground reference reference plane. The LIS unit under test and bonder mounted on top of the ground reference.	sted to AC power source throughted to the provides a 50 stables of all other units of the was bonded to the ground rest the LISN 1 for the unit being provided to the unit being provided to a provided to the provided to the provided to the provided to a ground reference plane. This does not the LISN and the EUT and the AC and the EUT a	ugh a LISN 1 (Line 0Ω/50μH + 5Ω linear EUT were connected to ference g measured. A ble power cables to a exceeded. table 0.8m above the ement, the EUT was brence plane. The rear erence plane. The rizontal ground the boundary of the ne for LISNs istance was		
	the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.				



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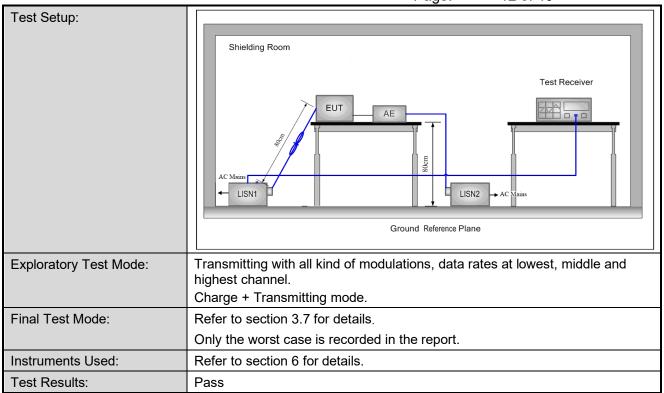
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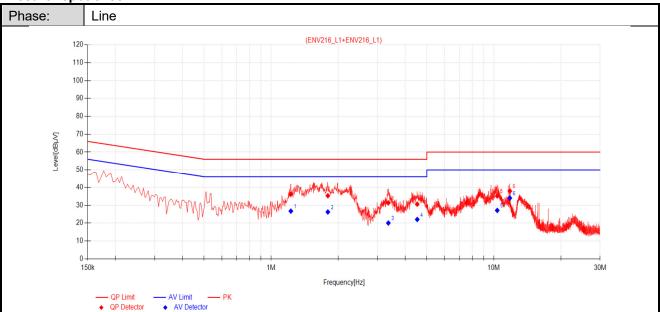
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Test for spot check:



Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	1.2255	10.78	25.36	36.14	56.00	19.86	15.94	26.72	46.00	19.28	PASS
2	1.7970	10.73	24.60	35.33	56.00	20.67	15.50	26.23	46.00	19.77	PASS
3	3.3585	10.69	20.65	31.34	56.00	24.66	9.37	20.06	46.00	25.94	PASS
4	4.5285	10.68	19.93	30.61	56.00	25.39	11.38	22.06	46.00	23.94	PASS
5	10.3560	10.62	24.56	35.18	60.00	24.82	16.49	27.11	50.00	22.89	PASS
6	11.8005	10.58	27.38	37.96	60.00	22.04	23.44	34.02	50.00	15.98	PASS

Remark

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



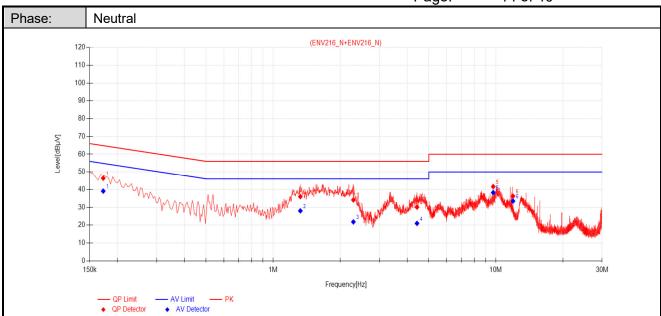
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Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1725	10.71	35.60	46.31	64.84	18.53	28.37	39.08	54.84	15.76	PASS
2	1.3245	10.78	25.21	35.99	56.00	20.01	17.25	28.03	46.00	17.97	PASS
3	2.2920	10.78	23.34	34.12	56.00	21.88	11.06	21.84	46.00	24.16	PASS
4	4.4250	10.70	19.40	30.10	56.00	25.90	10.31	21.01	46.00	24.99	PASS
5	9.7305	10.66	30.95	41.61	60.00	18.39	27.58	38.24	50.00	11.76	PASS
6	11.9355	10.65	25.61	36.26	60.00	23.74	22.84	33.49	50.00	16.51	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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4.3 Duty Cycle

The detailed test data see: Reference report SUZR/2021/9002505



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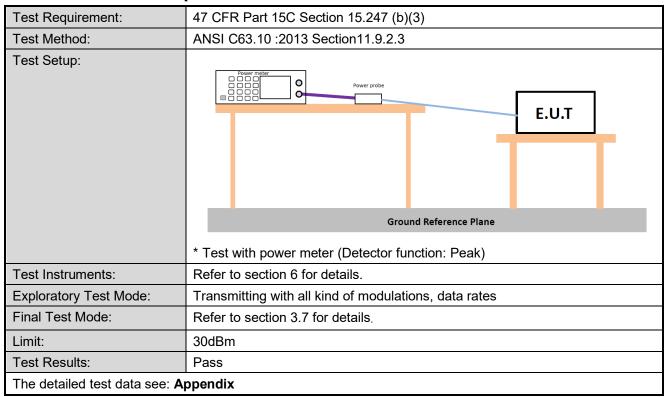
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4.4 Conducted Output Power





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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3					
Test Setup:	PC Spectrum Analyzer Spectrum Analyzer					
Instruments Used:	Refer to section 6 for details.					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates					
Final Test Mode:	Refer to section 3.7 for details.					
Limit:	≥ 500 kHz					
Test Results: Pass						
The detailed test data see: Re	ference report SUZR/2021/9002505					



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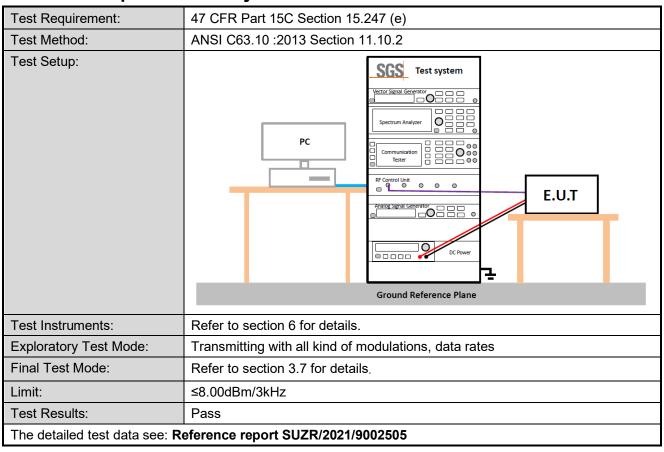
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4.6 Power Spectral Density





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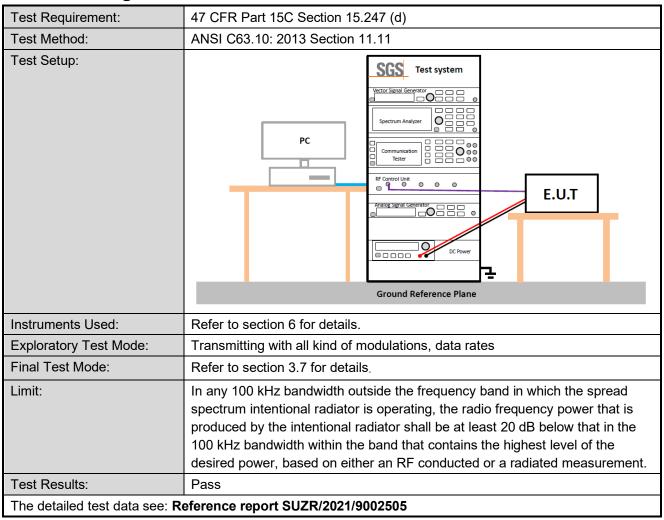
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4.7 Band-edge for RF Conducted Emissions





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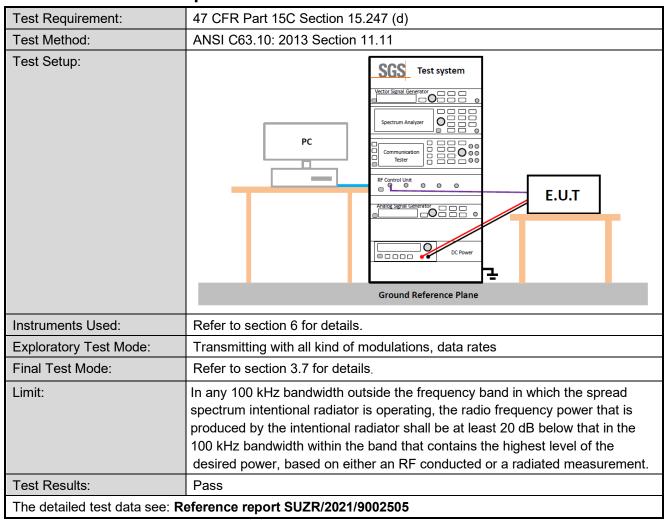
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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Test Frequency:	9kHz ~ 25GHz							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGHZ	Peak	1MHz	3MHz	Peak			
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz 500 54.0 Average 3							
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							



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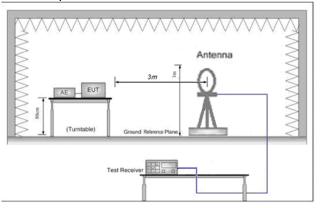
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Test Setup:



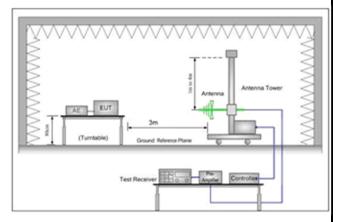


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

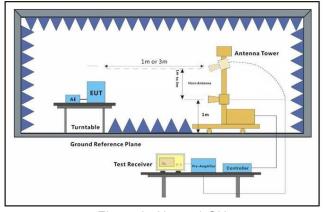


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the



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	<u> </u>
	maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	i. Repeat above procedures until all frequencies measured was complete.
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	 k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	VBW = 10 Hz, when duty cycle is no less than 98 percent.
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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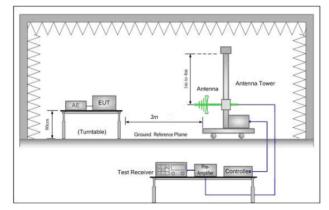
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	11.12				
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	per)			
Limit:	Frequency	Limit (dBuV/m)	Remark			
	30MHz-88MHz	40.0	Quasi-peak			
	88MHz-216MHz	43.5	Quasi-peak			
	216MHz-960MHz	46.0	Quasi-peak			
	960MHz-1GHz	54.0	Quasi-peak			
	Above 1GHz	54.0	Average Value			
	Above IGHZ	74.0	Peak Value			

Test Setup:



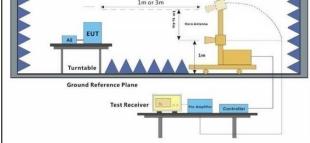


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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	1 age. 20 01 40
Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel , the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
_	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	VBW = 10 Hz, when duty cycle is no less than 98 percent.
	• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.



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Test Results: Pass
The detailed test data see: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.54dB		
2	RF power density, conducted	±1.03dB		
3	Spurious emissions, conducted	±0.54dB		
4	Radio Frequency	1%		
5	Duty Cycle	±0.37%		
6	Occupied Bandwidth	1%		
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)		
		± 3.13dB (9k -30MHz)		
0	Dadieted Emissies	± 4.8dB (30M -1GHz)		
8	Radiated Emission	± 4.8dB (1GHz to 18GHz)		
		± 4.8dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 **Equipment List**

	Conduction Test Equipment for new report								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07				
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06				
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07				
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07				
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR				

	RSE Test System for new report							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15			
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13			
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05			
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07			
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09			
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR			



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	RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05			
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16			
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22			
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05			



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Maximum conducted output power

Test for spot check:

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2412	21.10	≤30.00	PASS
11B	Ant1	2437	20.23	≤30.00	PASS
		2462	21.14	≤30.00	PASS
		2412	24.34	≤30.00	PASS
11G	Ant1	2437	22.23	≤30.00	PASS
		2462	22.91	≤30.00	PASS
		2412	22.71	≤30.00	PASS
11N20SISO	Ant1	2437	21.99	≤30.00	PASS
		2462	22.76	≤30.00	PASS
		2422	22.01	≤30.00	PASS
11N40SISO	Ant1	2437	21.89	≤30.00	PASS
		2452	21.76	≤30.00	PASS



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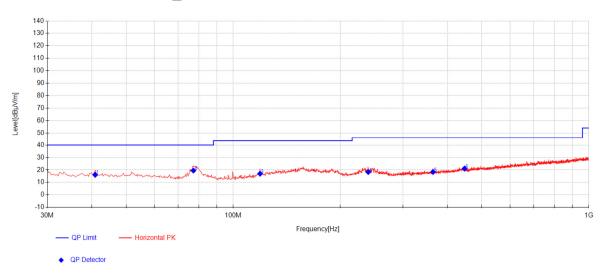
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Radiated Spurious Emissions

Test for spot check:

Radiated emission below 1GHz

Worst case Mode: 11n40_Channel 03



Final	Data List									
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.9125	30.16	-28.07	13.99	16.08	40.00	23.92	267	237	Horizontal
2	77.2875	37.69	-27.89	9.71	19.51	40.00	20.49	198	285	Horizontal
3	118.9975	32.55	-27.68	12.13	17.00	43.50	26.50	251	1	Horizontal
4	239.7625	33.29	-26.21	11.23	18.31	46.00	27.69	163	282	Horizontal
5	364.65	30.11	-25.81	14.10	18.40	46.00	27.60	154	102	Horizontal
6	447.3425	30.17	-25.00	15.90	21.07	46.00	24.93	218	161	Horizontal



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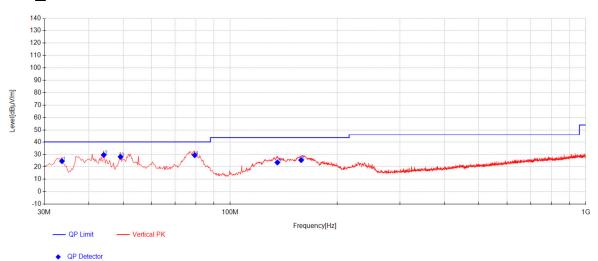
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11n40_Channel 03



Final	Data List									
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.6375	39.62	-28.40	13.34	24.57	40.00	15.43	145	273	Vertical
2	44.065	43.87	-28.05	13.73	29.55	40.00	10.45	186	181	Vertical
3	49.1575	42.53	-28.02	13.56	28.07	40.00	11.93	197	283	Vertical
4	79.47	47.86	-27.93	9.37	29.30	40.00	10.70	205	360	Vertical
5	135.73	37.44	-27.14	13.20	23.50	43.50	20.00	158	340	Vertical
6	158.2825	38.21	-26.90	14.09	25.40	43.50	18.10	216	360	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)



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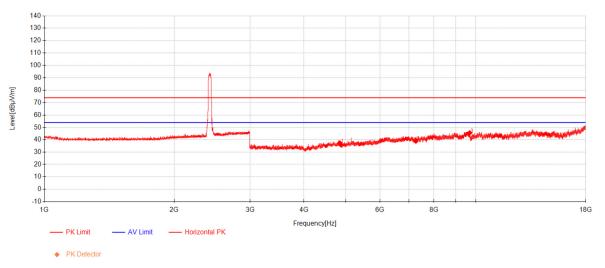


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Transmitter emission Above 1GHz

802.11n40_Channel 03



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4844	49.42	32.23	-44.63	37.01	74.00	36.99	196	226	Horizontal		
2	7266	44.43	36.36	-41.93	38.86	74.00	35.14	254	3	Horizontal		
3	9688	44.57	38.53	-37.59	45.51	74.00	28.49	146	59	Horizontal		



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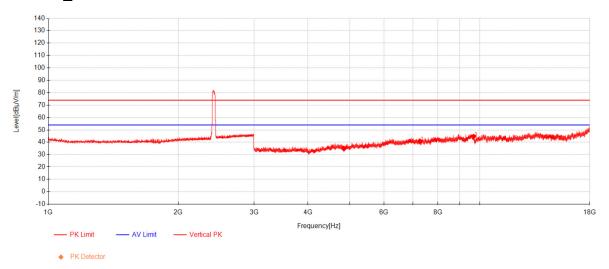
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Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4844	47.02	32.23	-44.63	34.61	74.00	39.39	201	360	Vertical		
2	7266	46.10	36.36	-41.93	40.53	74.00	33.47	142	82	Vertical		
3	9688	43.62	38.53	-37.59	44.56	74.00	29.44	296	63	Vertical		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)



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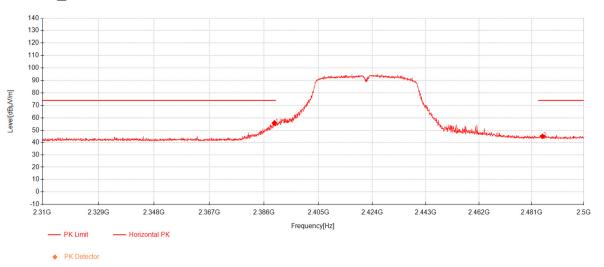
Rev.: 01

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Test for spot check:

Restricted bands around fundamental frequency

802.11n40_Channel 03



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2389.6299	52.65	27.68	-24.42	55.91	74.00	18.09	126	277	Horizontal		
2	2485	41.15	27.87	-23.95	45.07	74.00	28.93	126	277	Horizontal		



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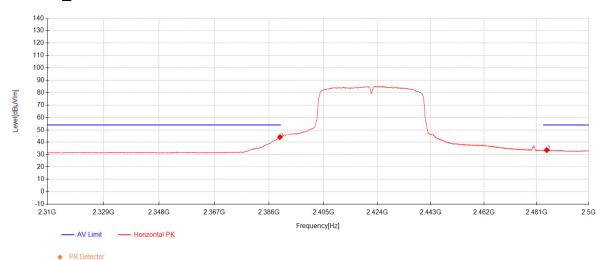
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Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2389.82	40.70	27.68	-24.42	43.96	54.00	10.04	126	277	Horizontal		
2	2484.7	29.53	27.87	-23.95	33.45	54.00	20.55	126	277	Horizontal		



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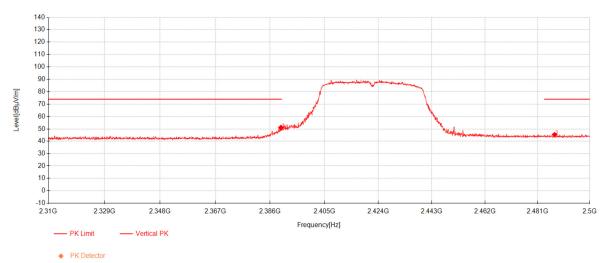
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Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2389.8033	47.87	27.68	-24.42	51.13	74.00	22.87	326	236	Vertical		
2	2487.22	41.29	27.87	-23.94	45.23	74.00	28.77	326	236	Vertical		



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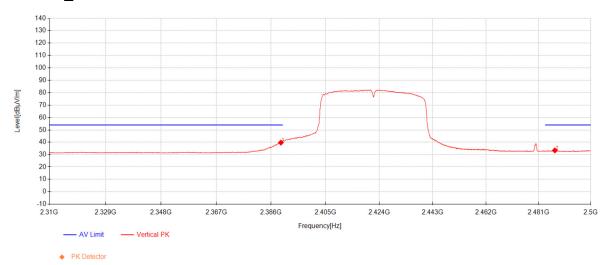
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802.11n40_Channel 03



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2389.43	36.21	27.68	-24.42	39.47	54.00	14.53	326	236	Vertical		
2	2486.92	29.28	27.87	-23.94	33.21	54.00	20.79	326	236	Vertical		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

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