

Report No.: SEWM2211000238RG01
 Rev.: 01
 Page: 1 of 38

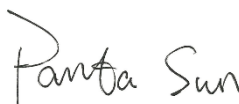
TEST REPORT

Application No.: SEWM2211000238RG
Applicant: Smawave Technology Co., Ltd
Address of Applicant: 3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China
Manufacturer: Smawave Technology Co., Ltd
Address of Manufacturer: 3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China
EUT Description: LTE Indoor CPE
Model No.: SRT421
Trade Mark: Smawave
FCC ID: 2AU8HSRT421-CBRS
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/11/09
Date of Test: 2022/11/24 to 2022/11/29
Date of Issue: 2022/11/29

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

Authorized Signature:



Panta Sun
 Wireless Laboratory Manager


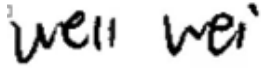


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/11/29		Original

Prepared By		 <hr/> (Ives Cheng) / Test Engineer
Checked By		 <hr/> (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)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Reference report SZCR210402049802	
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	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 SZCR210402049802	
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Reference report SZCR210402049802	
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Reference report SZCR210402049802	
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Reference report SZCR210402049802	
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

Remark:

The items of AC Power Line Conducted Emission and Conducted Output Power were fully retested, Radiated Spurious Emissions and Restricted bands around fundamental frequency were checked on 802.11n40_Channel 03, and other items data please refer to the test report SZCR210402049802 issue on 2021/05/18.



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3 General Information

3.1 Details of Client

Applicant:	Smawave Technology Co. ,Ltd
Address of Applicant:	3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China
Manufacturer:	Smawave Technology Co. ,Ltd
Address of Manufacturer:	3/F, Building 8, 1001 North Qinzhou Road, Xuhui District, Shanghai, China

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:	Ives Cheng, King-p Li

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:	LTE Indoor CPE	
Model No.:	SRT421	
Trade Mark:	Smawave	
Hardware Version:	V1.0	
Software Version:	ST_CBRS_V2.0.0	
IMEI:	RF Conducted	862165041541640
	RSE & AC power line	862165041541358
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	<input type="checkbox"/> SISO	802.11b/g/n
	<input checked="" type="checkbox"/> MIMO	802.11n: 2Tx & 2Rx
	<input checked="" type="checkbox"/> Diversity	802.11b/g: 2Tx & 2Rx
Antenna Type:	Internal Antenna	
Antenna Gain:	2.27dBi(Ant0);1.82dBi(Ant1)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1dB	
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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 Frequency of each 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(°C)	Voltage(V)
NTNV	22~23	12
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	CDD/MIMO - Data Rate
802.11b	/	2 Mbps
802.11g	/	12 Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 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)
<p>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.</p> <p>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.</p>	
<p>The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 2.27dBi(Ant0);1.82dBi(Ant1).*</p>	
<p><i>*Note:</i> The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</i> 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.</p>	



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power measurements on IEEE 802.11 devices:
 Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
 Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;
 Array Gain = $5 \log(N_{ANT}/N_{SS}=1)$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dBi

- If transmit signals are correlated, then
 Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- If all transmit signals are completely uncorrelated, then
 Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}]$ dBi

The Power and PSD limit should be modified if the directional gain of eut is over 6dBi.

Power Limit Reduction =

The EUT supports CDD System.

Unequal antenna gain:

ANT Gain0 (dBi)	ANT Gain1 (dBi)	Power DG (dBi)	PSD DG (dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
2.27	1.82	2.05	5.06	0	0

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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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		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 logarithm of the frequency.			
Test Procedure:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of 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.</p>		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



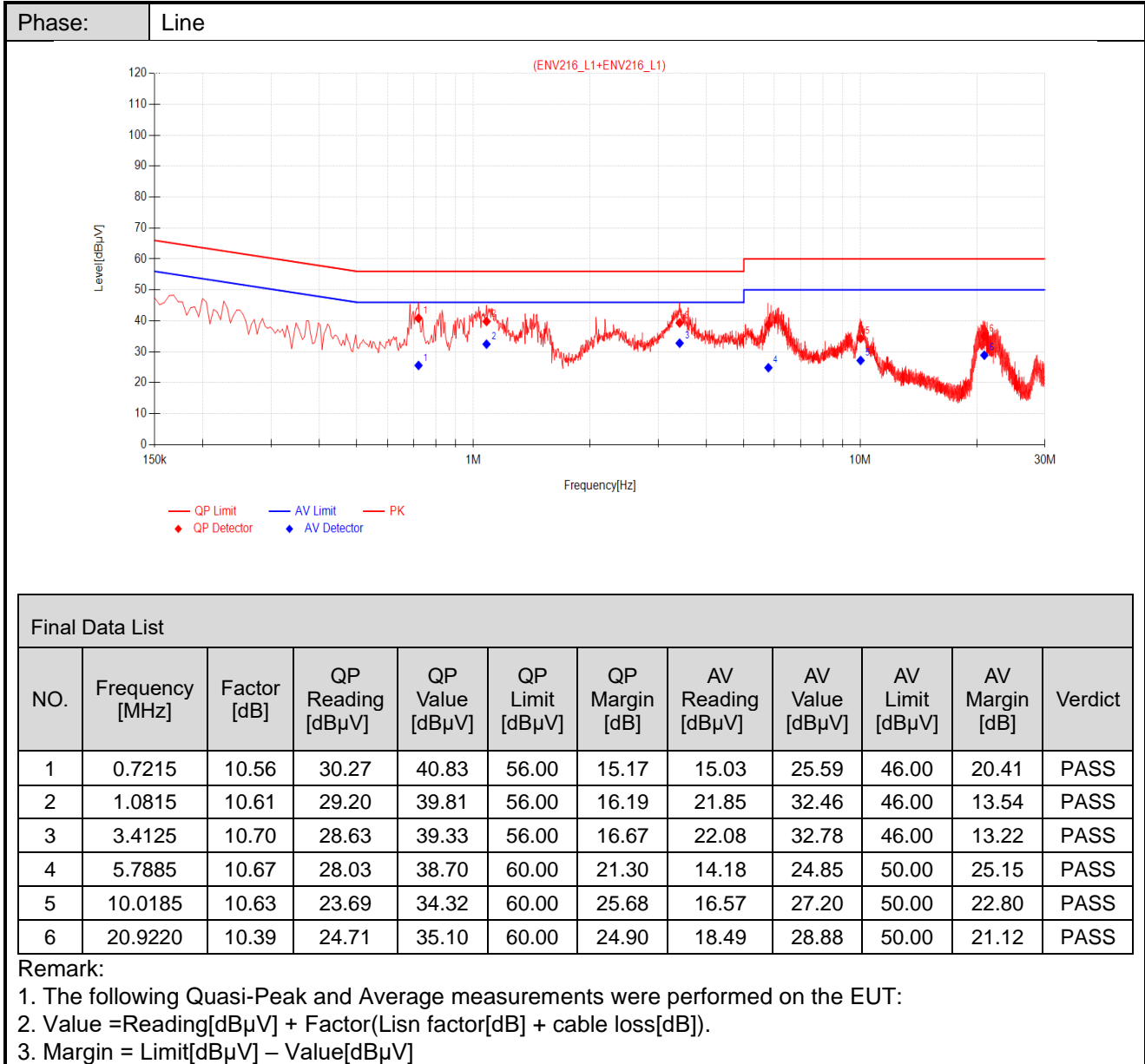
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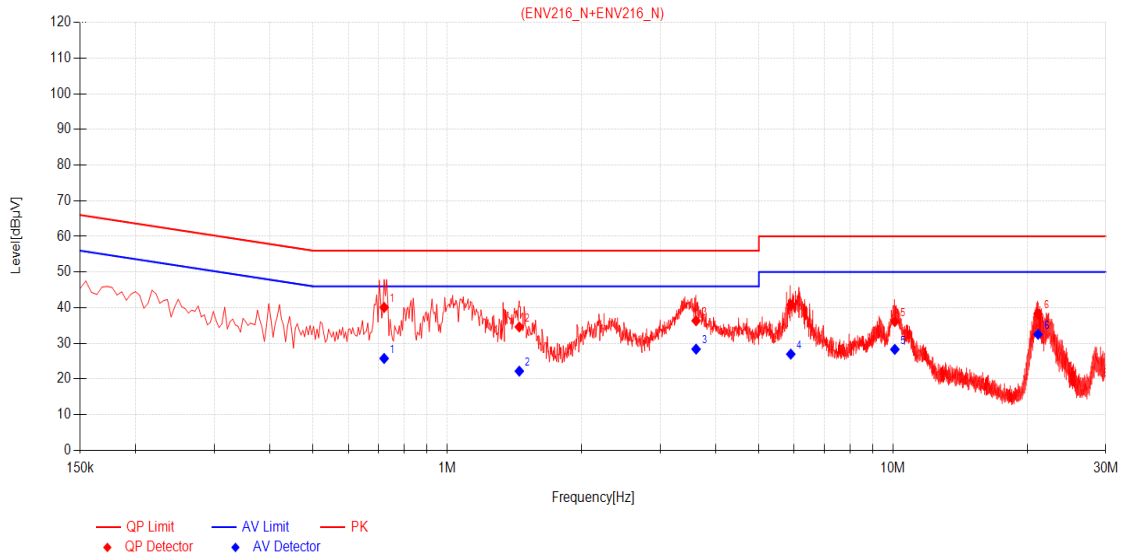
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Measurement Data

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.



Phase: Neutral



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	0.7215	10.81	29.27	40.08	56.00	15.92	14.95	25.76	46.00	20.24	PASS
2	1.4505	10.77	23.83	34.60	56.00	21.40	11.43	22.20	46.00	23.80	PASS
3	3.6150	10.68	25.66	36.34	56.00	19.66	17.70	28.38	46.00	17.62	PASS
4	5.8965	10.58	30.17	40.75	60.00	19.25	16.40	26.98	50.00	23.02	PASS
5	10.0950	10.67	25.44	36.11	60.00	23.89	17.64	28.31	50.00	21.69	PASS
6	21.1560	10.41	27.84	38.25	60.00	21.75	22.12	32.53	50.00	17.47	PASS

Remark:

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



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4.3 Duty Cycle

The detailed test data see: **Reference report SZCR210402049802**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	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:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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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:	
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: Reference report SZCR210402049802	



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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	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:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Reference report SZCR210402049802	



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
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:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Reference report SZCR210402049802	



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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
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:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Reference report SZCR210402049802	



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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	
	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.					



Test Setup:

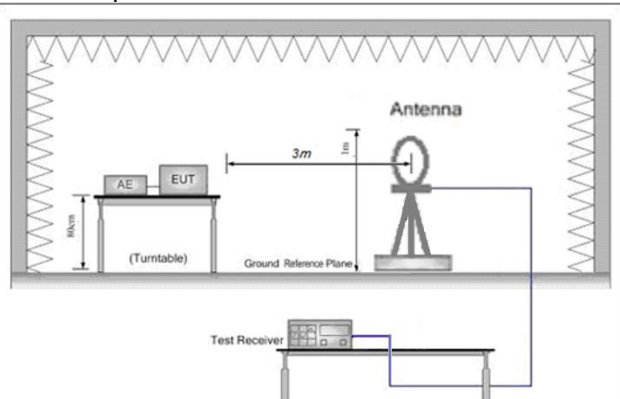


Figure 1. Below 30MHz

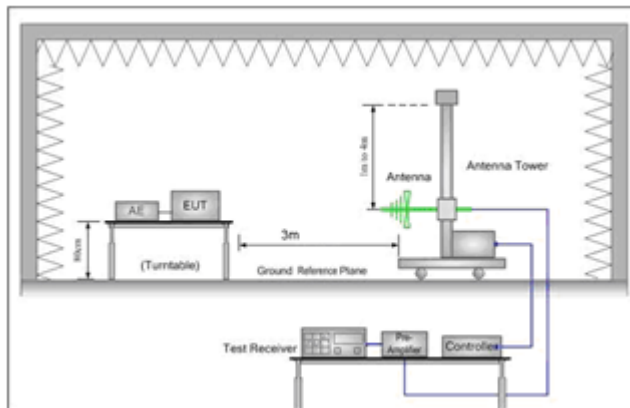


Figure 2. 30MHz to 1GHz

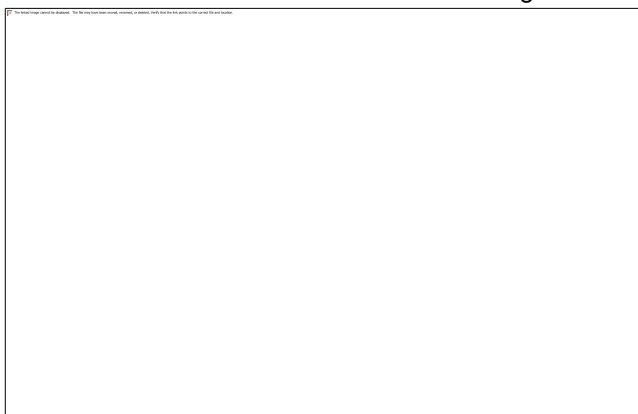


Figure 3. Above 1 GHz

Test Procedure:

- 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- 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.
- 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.
- 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



	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>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.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>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</p> <p>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.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
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: Appendix	



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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 Chamber)		
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
		74.0	Peak Value

Test Setup:

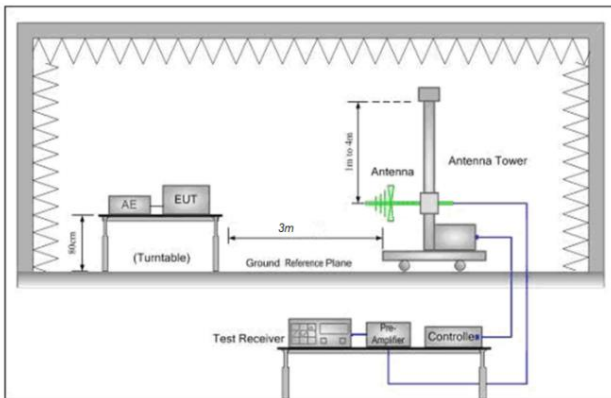


Figure 1. 30MHz to 1GHz

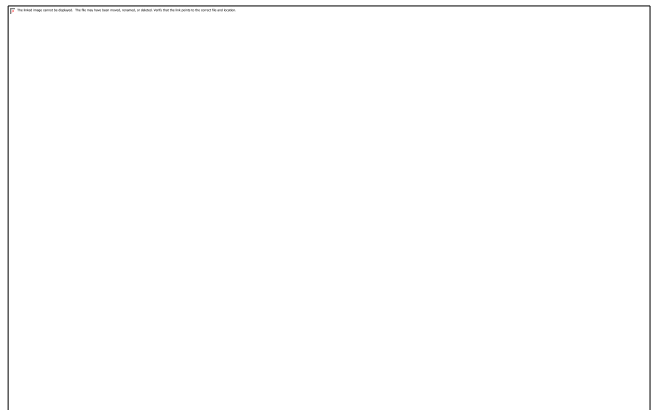


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 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. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 Test the EUT in the lowest channel , the Highest channel 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. Repeat above procedures until all frequencies measured was complete.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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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: 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	Conduction Emission	± 2.90dB (150kHz to 30MHz)
3	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (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

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	2022/02/16	2023/02/15
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	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
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-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
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	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
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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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Conducted Output Power

For new report:

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)			Limit (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	MIMO	14.21	14.71	17.48	30	PASS
	2437	MIMO	14.8	14.67	17.75	30	PASS
	2462	MIMO	14.00	14.32	17.17	30	PASS
802.11g	2412	MIMO	12.21	12.9	15.58	30	PASS
	2437	MIMO	13.12	12.84	15.99	30	PASS
	2462	MIMO	12.25	12.32	15.30	30	PASS
802.11n(HT20)	2412	MIMO	12.00	12.66	15.35	30	PASS
	2437	MIMO	12.80	12.62	15.72	30	PASS
	2462	MIMO	11.98	12.21	15.11	30	PASS
802.11n(HT40)	2422	MIMO	11.74	10.73	14.27	30	PASS
	2437	MIMO	12.06	11.42	14.76	30	PASS
	2452	MIMO	12.51	13.01	15.78	30	PASS

For original report:

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)			Limit (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	MIMO	14.27	14.77	17.54	30	PASS
	2437	MIMO	14.88	14.67	17.79	30	PASS
	2462	MIMO	14.10	14.34	17.23	30	PASS
802.11g	2412	MIMO	12.30	12.93	15.64	30	PASS
	2437	MIMO	13.12	12.84	15.99	30	PASS
	2462	MIMO	12.32	12.38	15.36	30	PASS
802.11n(HT20)	2412	MIMO	12.06	12.66	15.38	30	PASS
	2437	MIMO	12.83	12.70	15.78	30	PASS
	2462	MIMO	12.04	12.23	15.15	30	PASS
802.11n(HT40)	2422	MIMO	11.76	10.79	14.31	30	PASS
	2437	MIMO	12.08	11.49	14.81	30	PASS
	2452	MIMO	12.59	13.07	15.85	30	PASS

Remark:

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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n40_Channel 03

For new report:

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	38.245	48.86	-28.17	11.61	32.30	40.00	7.70	102	17	Horizontal
2	42.125	46.02	-28.07	12.53	30.48	40.00	9.52	174	309	Horizontal
3	50.855	39.86	-27.98	13.59	25.48	40.00	14.52	142	270	Horizontal
4	66.6175	38.96	-27.70	9.61	20.87	40.00	19.13	256	21	Horizontal
5	99.84	31.24	-27.36	10.78	14.65	43.50	28.85	235	249	Horizontal
6	249.9475	30.27	-26.00	11.90	16.17	46.00	29.83	214	60	Horizontal

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	44.065	49.62	-28.05	12.91	34.48	40.00	5.52	102	360	Vertical
2	50.37	45.75	-28.00	13.71	31.47	40.00	8.53	185	21	Vertical
3	75.105	47.26	-27.84	7.83	27.25	40.00	12.75	263	101	Vertical
4	129.91	32.65	-27.16	8.21	13.70	43.50	29.80	254	21	Vertical
5	160.7075	34.04	-26.75	7.81	15.10	43.50	28.40	142	21	Vertical
6	249.9475	30.28	-26.00	11.90	16.18	46.00	29.82	232	0	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain.

The basic equation with a sample calculation is as follows:

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

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Pre-amplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Value}(\text{dB}\mu\text{V}/\text{m})$$



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For original report:

Data List									
NO.	Frequency [MHz]	Cable Loss [dB]	AF [dB/m]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Over Limit [dB]	Polarity
1	33.33	0.64	21.10	27.72	24.88	18.90	40.00	-21.10	Horizontal
2	60.28	0.80	12.83	27.66	32.73	18.70	40.00	-21.30	Horizontal
3	87.42	1.28	12.78	27.62	27.59	14.03	40.00	-25.97	Horizontal
4	196.51	1.20	15.70	27.15	32.59	22.34	43.50	-21.16	Horizontal
5	250.30	1.64	18.20	26.99	32.86	25.71	46.00	-20.29	Horizontal
6	993.01	3.59	29.70	26.69	25.41	32.01	54.00	-21.99	Horizontal

Data List									
NO.	Frequency [MHz]	Cable Loss [dB]	AF [dB/m]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Over Limit [dB]	Polarity
1	48.67	0.70	14.43	27.69	36.89	24.33	40.00	-15.67	Vertical
2	86.50	1.27	12.60	27.63	38.60	24.84	40.00	-15.16	Vertical
3	181.92	1.19	15.42	27.21	30.28	19.68	43.50	-23.82	Vertical
4	472.18	2.45	23.75	27.69	26.13	24.64	46.00	-21.36	Vertical
5	627.27	2.76	26.55	28.07	25.08	26.32	46.00	-19.68	Vertical
6	982.62	3.58	29.54	26.74	26.59	32.97	54.00	-21.03	Vertical

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Transmitter emission Above 1GHz

802.11n40_Channel 03

For new report:

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	4904	48.82	32.37	-44.88	36.31	74.00	37.69	296	132	Horizontal
2	7356	45.78	36.41	-41.88	40.31	74.00	33.69	255	166	Horizontal
3	9808	42.37	38.52	-37.48	43.41	74.00	30.59	241	66	Horizontal
4	4904	40.45	32.37	-44.88	27.94	54.00	26.06	142	3	Horizontal
5	7356	38.16	36.41	-41.88	32.69	54.00	21.31	255	66	Horizontal
6	9808	34.32	38.52	-37.48	35.36	54.00	18.64	286	132	Horizontal

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	4904	47.98	32.37	-44.88	35.47	74.00	38.53	201	64	Vertical
2	7356	45.60	36.41	-41.88	40.13	74.00	33.87	142	32	Vertical
3	9808	42.54	38.52	-37.48	43.58	74.00	30.42	266	66	Vertical
4	4904	40.74	32.37	-44.88	28.23	54.00	25.77	266	251	Vertical
5	7356	37.68	36.41	-41.88	32.21	54.00	21.79	254	142	Vertical
6	9808	34.47	38.52	-37.48	35.51	54.00	18.49	185	131	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(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBμV/m) – Level(dBμV/m)



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For original report:

Data List									
NO.	Frequency [MHz]	Cable Loss [dB]	AF [dB/m]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Over Limit [dB]	Polarity
1	1653.550	3.39	26.48	40.04	46.64	36.47	74.00	-37.53	Horizontal
2	4062.629	6.34	33.60	41.46	48.08	46.56	74.00	-27.44	Horizontal
3	4844.000	7.14	34.23	42.17	46.80	46.00	74.00	-28.00	Horizontal
4	6995.172	8.54	36.49	41.70	47.05	50.38	74.00	-23.62	Horizontal
5	7266.000	8.79	36.39	41.45	47.86	51.59	74.00	-22.41	Horizontal
6	9688.000	10.78	37.54	37.63	42.36	53.05	74.00	-20.95	Horizontal

Data List									
NO.	Frequency [MHz]	Cable Loss [dB]	AF [dB/m]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Over Limit [dB]	Polarity
1	1677.621	3.41	26.58	40.05	45.31	35.25	74.00	-38.75	Vertical
2	4495.125	6.76	33.60	41.87	48.13	46.62	74.00	-27.38	Vertical
3	4844.000	7.14	34.23	42.17	46.07	45.27	74.00	-28.73	Vertical
4	6954.852	8.52	36.38	41.73	47.11	50.28	74.00	-23.72	Vertical
5	7266.000	8.79	36.39	41.45	47.19	50.92	74.00	-23.08	Vertical
6	9688.000	10.78	37.54	37.63	43.11	53.80	74.00	-20.20	Vertical

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Restricted bands around fundamental frequency

802.11n40_Channel 03

For new report:

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	2389.7599	64.83	27.68	-24.42	68.09	74.00	5.91	232	98	Horizontal
2	2484.76	52.93	27.87	-23.95	56.85	74.00	17.15	232	98	Horizontal
3	2389.3264	46.60	27.68	-24.42	49.86	54.00	4.14	232	98	Horizontal
4	2484.76	38.33	27.87	-23.95	42.25	54.00	11.75	232	98	Horizontal

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	2389.4565	67.86	27.68	-24.42	71.12	74.00	2.88	385	66	Vertical
2	2484.58	49.50	27.87	-23.95	53.42	74.00	20.58	385	66	Vertical
3	2389.9767	49.39	27.68	-24.42	52.65	54.00	1.35	385	66	Vertical
4	2484.28	36.38	27.87	-23.95	40.30	54.00	13.70	385	66	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain.

The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)



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For original report:

Data List									
NO.	Frequency [MHz]	Cable Loss [dB]	AF [dB/m]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Over Limit [dB]	Polarity
1	2387.723	4.34	28.87	40.42	69.56	62.35	74.00	-11.65	Horizontal
2	2390.000	4.34	28.88	40.42	68.64	61.44	74.00	-12.56	Horizontal
3	2422.000	4.40	28.94	40.44	107.15	100.05	74.00	26.05	Horizontal
4	2389.226	4.34	28.88	40.42	57.30	50.10	54.00	-3.90	Horizontal
5	2390.000	4.34	28.88	40.42	57.22	50.02	54.00	-3.98	Horizontal
6	2422.000	4.40	28.94	40.44	97.76	90.66	54.00	36.66	Horizontal

Data List									
NO.	Frequency [MHz]	Cable Loss [dB]	AF [dB/m]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Over Limit [dB]	Polarity
1	2388.925	4.34	28.88	40.42	72.89	65.69	74.00	-8.31	Vertical
2	2390.000	4.34	28.88	40.42	71.54	64.34	74.00	-9.66	Vertical
3	2422.000	4.40	28.94	40.44	110.10	103.00	74.00	29.00	Vertical
4	2389.526	4.34	28.88	40.42	60.13	60.13	52.93	54.00	Vertical
5	2390.000	4.34	28.88	40.42	60.38	60.38	53.18	54.00	Vertical
6	2422.000	4.40	28.94	40.44	100.46	100.46	93.36	54.00	Vertical

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---End of Report---



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