



RF TEST REPORT

Report No.: SET2018-06402

Product Name: Handheld Data Terminal

FCC ID: HLEEA500BTNFL

Model No. : EA500, EA502, EA506, EA508

Applicant: Unitech Electronics Co., Ltd.

Address: 5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei City, Taiwan.

Dates of Testing: 05/16/2018 — 06/14/2018

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu, Xili Industrial Zone, Xili Road, Nanshan District, Shenzhen, Guangdong, China

Tel: 86 755 26627338 **Fax:** 86 755 26627238

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Test Report

Product Name : Handheld Data Terminal

Brand Name : unitech

Trade Name : N.A

Applicant : Unitech Electronics Co., Ltd.

Applicant Address : 5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist.,
New Taipei City, Taiwan.

Manufacturer : Unitech Electronics Co., Ltd.

Manufacturer Address : 5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist.,
New Taipei City, Taiwan.

Test Standards : 47 CFR Part 15 Subpart E 15.407

Test Result : PASS

Tested by :

Shallwe Yang

2018.06.14

Shallwe Yang, Test Engineer

Reviewed by :

Zhu Qi

2018.06.14

Zhu Qi, Senior Engineer

Approved by :

Smart Li

2018.06.14

Smart Li, Manager

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Change History		
Issue	Date	Reason for change
1.0	2018.06.14	First edition

1. General Information

1.1. EUT Description

EUT Type	Handheld Data Terminal
Hardware Version	SQ52W_MB_V1.00
Software Version	SQ52W_P1_UTE_D0_180503_01
EUT supports Radios application	WLAN5.0GHz 802.11a/n (HT20/40)/ac(VHT20/40/80)
Product Type	Indoor
Modulation Type	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 135 Mbps 802.11ac: up to V9
Frequency Range	Band UNII-1: 5150 ~ 5250MHz Band UNII-2A: 5250 ~ 5350MHz Band UNII-2C: 5470 ~ 5725MHz Band UNII-3: 5725 ~ 5850MHz
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz/40MHz 802.11ac: 20MHz/40MHz/80MHz
Channel Number	5150 MHz ~ 5250MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5250 MHz ~ 5350MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5470 MHz ~ 5725MHz: 11 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 5 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5725 MHz ~ 5850MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)



Antenna Type	PFA
Antenna Gain	-2.6dBi
Output Power (Max.)	Band UNII-1: 18.97 dBm Band UNII-2A: 14.56 dBm Band UNII-2C: 10.83 dBm Band UNII-3: 13.94 dBm

1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart E for the EUT FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E § 15.407	Radio Frequency Devices
2	KDB Publication 789033D02v01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
6	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC rules, and results are as below:

No.	FCC Rule	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.407(a)	Maximum Conducted Output Power	PASS
3	15.407(a)	Emission Bandwidth (26 dB Bandwidth)	PASS
	15.407(e)	Emission Bandwidth (6 dB Bandwidth)	PASS
4	15.407(a)	Power spectral density (PSD)	PASS
5	15.207	AC Power Line Conducted Emission	PASS
6	15.209 15.407(b)	Radiated Band Edges and Spurious Emission	PASS
7	15.407(g)	Frequency Stability	PASS

1.3. Channel List

Operated band in 5150 MHz ~ 5250MHz

4 channels are provided for 802.11a, 802.11n-HT20, and 802.11ac-VHT20

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel are provided for 802.11ac-VHT80

Channel	Frequency	Channel	Frequency
42	5210 MHz	/	/

Operated band in 5250 MHz ~ 5350MHz

4 channels are provided for 802.11a, 802.11n-HT20, and 802.11ac-VHT20

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel are provided for 802.11ac-VHT80

Channel	Frequency	Channel	Frequency
58	5290 MHz	/	/

Operated band in 5470 MHz ~ 5725MHz

11 channels are provided for 802.11a, 802.11n-HT20, and 802.11ac-VHT20

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for 802.11n-HT40 and 802.11ac-VHT40

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

1 channel are provided for 802.11ac-VHT80

Channel	Frequency	Channel	Frequency
106	5530 MHz	\	\

Operated band in 5725 MHz ~ 5850MHz

5 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	/	/

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel are provided for 802.11ac-VHT80

Channel	Frequency	Channel	Frequency
155	5775 MHz	/	/

1.4. Test environment and mode

Operating Environment	
Temperature	24°C
Humidity	57 % RH
Atmospheric Pressure	1010 mbar
Test mode:	
Continuously transmitting mode	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO, duty cycle factor is not required.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

For Frequency band 5150 ~ 5250 MHz			
Mode	Modulation scheme / bandwidth		
	5180 MHz	5220 MHz	5240 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n/ac – HT20	MCS 0	MCS 0	MCS 0
Frequency	5190 MHz		5230 MHz
802.11n/ac – HT40	MCS 0		MCS 0
Frequency	5210 MHz		
802.11ac – VHT80	MCS 0		

For Frequency band 5250 ~ 5350 MHz			
Mode	Modulation scheme / bandwidth		
	5260 MHz	5300 MHz	5320 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n/ac – HT20	MCS 0	MCS 0	MCS 0
Frequency	5270 MHz		5310 MHz
802.11n/ac – HT40	MCS 0		MCS 0
Frequency	5290 MHz		
802.11ac – VHT80	MCS 0		

For Frequency band 5470 ~ 5725 MHz			
Mode	Modulation scheme / bandwidth		
	5500 MHz	5580 MHz	5700 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n/ac – HT20	MCS 0	MCS 0	MCS 0
Frequency	5510 MHz		5670 MHz
802.11n/ac – HT40	MCS 0		MCS 0
Frequency	5530 MHz		
802.11ac – VHT80	MCS 0		

For Frequency band 5725 ~ 5850 MHz			
Mode	Modulation scheme / bandwidth		
	5745 MHz	5785 MHz	5825 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n/ac – HT20	MCS 0	MCS 0	MCS 0
Frequency	5755 MHz		5795 MHz
802.11n/ac – HT40	MCS 0		MCS 0
Frequency	5775 MHz		
802.11ac – VHT80	MCS 0		

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation modes or test configuration modes mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX A Mode / CH36, CH44, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N40 Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC40 Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC80 Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)

Mode 15	TX N40 Mode / CH102, CH134 (UNII-2C)
Mode 16	TX AC20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC40 Mode / CH102, CH134 (UNII-2C)
Mode 18	TX AC80 Mode / CH106, (UNII-2C)
Mode 19	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 20	TX N20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 21	TX N40 Mode / CH151, CH159 (UNII-3)
Mode 22	TX AC20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 23	TX AC40 Mode / CH151, CH159 (UNII-3)
Mode 24	TX AC80 Mode / CH155 (UNII-3)
Mode 25	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 25	TX Mode
For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH44, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N40 Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC40 Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC80 Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 14	TX N20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 15	TX N40 Mode / CH102, CH134 (UNII-2C)
Mode 16	TX AC20 Mode / CH100, CH116, CH140 (UNII-2C)
Mode 17	TX AC40 Mode / CH102, CH134 (UNII-2C)
Mode 18	TX AC80 Mode / CH106, (UNII-2C)
Mode 19	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 20	TX N20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 21	TX N40 Mode / CH151, CH159 (UNII-3)
Mode 22	TX AC20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 23	TX AC40 Mode / CH151, CH159 (UNII-3)
Mode 24	TX AC80 Mode / CH155 (UNII-3)

1.5. Power level setup in software

Power level setup in software for 5G wifi			
UNII-1			
Frequency (MHz)	5180	5220	5240
A mode	14	14	14
Frequency (MHz)	5180	5220	5240
N20 mode	14	14	14
Frequency (MHz)	5190	5230	\
N40 mode	14	14	\
Frequency (MHz)	5180	5220	5240
AC20 mode	14	14	14
Frequency (MHz)	5190	5230	\
AC40 mode	14	14	\
Frequency (MHz)	5210	\	\
AC80 mode	8	\	\

Power level setup in software for 5G wifi			
UNII-2A			
Frequency (MHz)	5260	5300	5320
A mode	14	14	14
Frequency (MHz)	5260	5300	5320
N20 mode	14	14	14
Frequency (MHz)	5270	5310	\
N40 mode	14	14	\
Frequency (MHz)	5260	5300	5320
AC20 mode	14	14	14
Frequency (MHz)	5270	5310	\
AC40 mode	14	14	\
Frequency (MHz)	5290	\	\
AC80 mode	8	\	\

Power level setup in software for 5G wifi			
UNII-2C			
Frequency (MHz)	5500	5580	5700
A mode	16	16	16
Frequency (MHz)	5500	5580	5700
N20 mode	16	16	16
Frequency (MHz)	5510	5670	\
N40 mode	16	16	\
Frequency (MHz)	5500	5580	5700
AC20 mode	16	16	16
Frequency (MHz)	5510	5670	\
AC40 mode	16	16	\
Frequency (MHz)	5530	\	\
AC80 mode	10	\	\

Power level setup in software for 5G wifi			
UNII-3			
Frequency (MHz)	5745	5785	5825
A mode	14	14	14
Frequency (MHz)	5745	5785	5825
N20 mode	14	14	14
Frequency (MHz)	5755	5795	\
N40 mode	14	14	\
Frequency (MHz)	5745	5785	5825
AC20 mode	14	14	14
Frequency (MHz)	5755	5795	\
AC40 mode	14	14	\
Frequency (MHz)	5775	\	\
AC80 mode	14	\	\

1.6. Laboratory Facilities

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031, valid time is until December 31, 2018.

ISED Registration: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Aug. 03, 2019.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

And according to FCC 47 CFR Section 15.407(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Type	PCB antenna
Antenna Gain	-2.6dBi

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Output Power

2.2.1. Limit of Output Power

FCC 15.407(a)

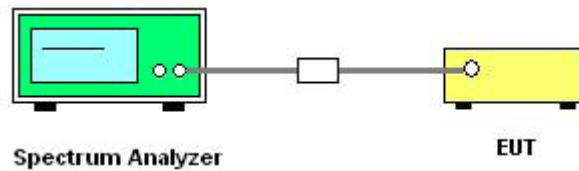
The maximum conducted output power should not exceed:

Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐ Fixed point-to-point Access device	1 Watt (30 dBm)
	☐ Indoor Access Point	1 Watt (30 dBm)
	☒ Mobile and portable client device	250mW (24 dBm)
U-NII-2A	☒	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-2C	☒	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-3	☒	1 Watt (30 dBm)
Note: B* is the 26 dB emission bandwidth in MHz.		

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02 Method SA-1
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector=average(RMS), Compute power by integrating the spectrum across the 99%OBW.
5. Measure the conducted output power and record the results in the test report.



2.2.5. Test Result

Please refer to APPENDIX A for detail

2.2.6. Emission Bandwidth

2.2.7. Limit of Bandwidth

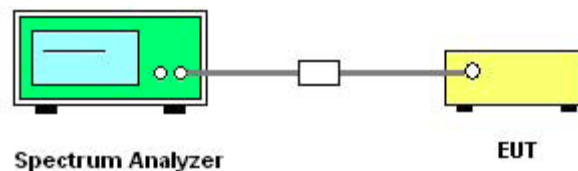
There is no limit bandwidth for band U-NII-1, U-NII-2A and U-NII-2C.

The minimum of 6dB bandwidth measurement is 0.5 MHz for U-NII-3.

2.2.8. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.9. Test Setup



2.2.10. Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02.

2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

3. Set to the maximum power setting and enable the EUT transmit continuously.

4. For 26dB bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = approximately 1%EBW, VBW $\geq$ 3RBW, Detector = Peak, Trace mode = max hold

Span > 26 dB bandwidth and Sweep time = auto

5. Use the spectrum analyzer N dB down function to find the 26dB bandwidth.

6. For 6 Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 100kHz
VBW = 300 kHz, Detector = Peak, Trace mode = max hold

7. Use the spectrum analyzer N dB down function to find the 6dB bandwidth

8. Measure and record the worst results in the test report.



2.2.11. Test Results Bandwidth

Please refer to APPENDIX A for detail

2.3. Power spectral density (PSD)

2.3.1. Limit of Power Spectral Density

FCC 15.407(a)

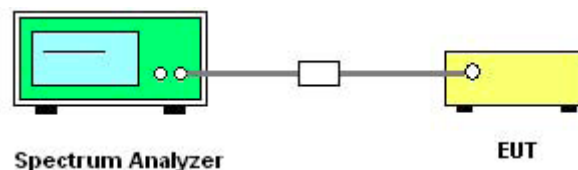
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	☐ Access Point (Master device)	17 dBm/MHz
	☐ Fixed point-to-point Access device	
	☒ Mobile and portable client device	11 dBm/MHz
U-NII-2A	☒	11 dBm/MHz
U-NII-2C	☒	11 dBm/MHz
U-NII-3	☒	30dBm/500kHz

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.

4. For U-NII-1, U-NII-2A, U-NII-2C Band:

Using method SA-1

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = sample, traces 100 sweeps of averaging mode.

For U-NII-3 Band:

Set RBW=500 kHz, $VBW \geq 3RBW$, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = sample, traces 100 sweeps of averaging mode.

5. Use peak search function on the instrument to find the peak of the spectrum and record its value
6. Repeat above procedures until all default test channel (low, middle, and high) was complete.

2.3.5. Test Results of Power spectral density

Please refer to APPENDIX A for detail

2.4. Frequency Stability

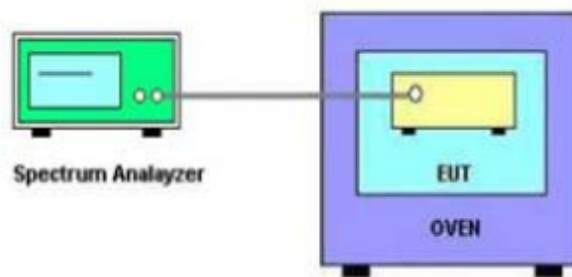
2.4.1. Limit

FCC 15.407(b) Frequency Stability	
Frequency Band(MHz)	Limit
5150~5250	Specified in the user's manual
5250~5350	
5470~5725	
5725~5850	

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



2.4.4. Test Procedures

1. The EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. The EUT is installed in an environment test chamber with external power source.
4. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
5. A sufficient stabilization period at each temperatures in used prior to each frequency measurement.
6. The test shall be performed under -10 to 55 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
7. Measure and record the worst results in the test report.

2.4.5. Test Results of Frequency Stability

Please refer to APPENDIX A for detail

2.5. Radiated Band Edge and Spurious Emission

2.5.1. Limit of Radiated Band Edges and Spurious Emission

Radiated emission which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level ($\mu\text{V/m}$).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedures New Rules v01	Field Strength at 3m	
	PK:74(dB $\mu\text{V/m}$)	AV:54 (dB $\mu\text{V/m}$)

Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (3m) (dB $\mu\text{V/m}$)
5150 - 5250	Outside of the 5.15~5.35 GHz	-27	68.2
5250 - 5350	Outside of the 5.15~5.35 GHz		
5470 -5725	Outside of the 5.47~5.725 GHz		

FCC 15.407			
Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (3m) (dBμV/m)
5725 - 5850	<5650	-27	68.2
	5650~5700	-27~10	68.2~105.2
	5700~5720	10~15.6	105.2~110.8
	5720~5725	15.6~27	110.8~122.2
	5850~5855	27~15.6	122.2~110.8
	5855~5875	15.6~10	110.8~105.2
	5875~5925	10~-27	105.2~68.2
	>5925	-27	68.2

Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

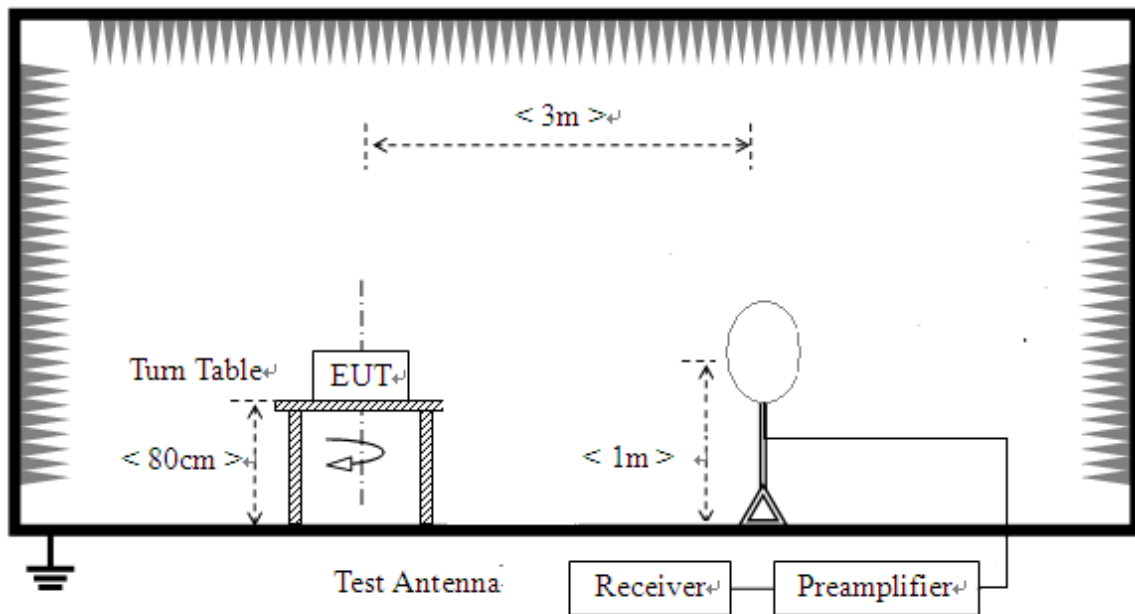
$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

2.5.2. Measuring Instruments

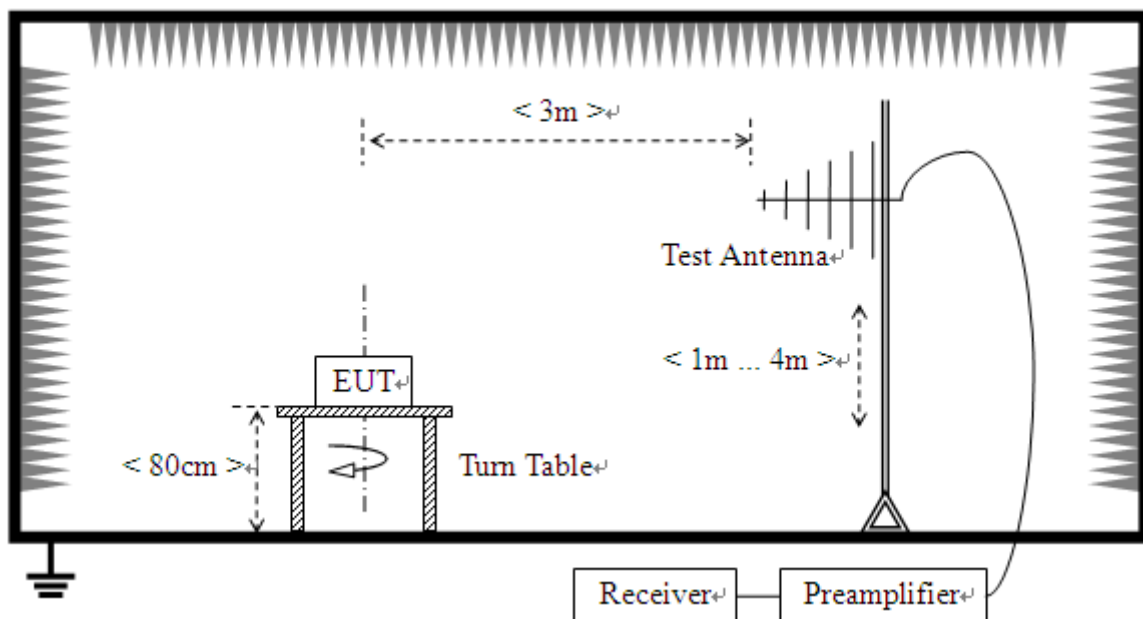
The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup

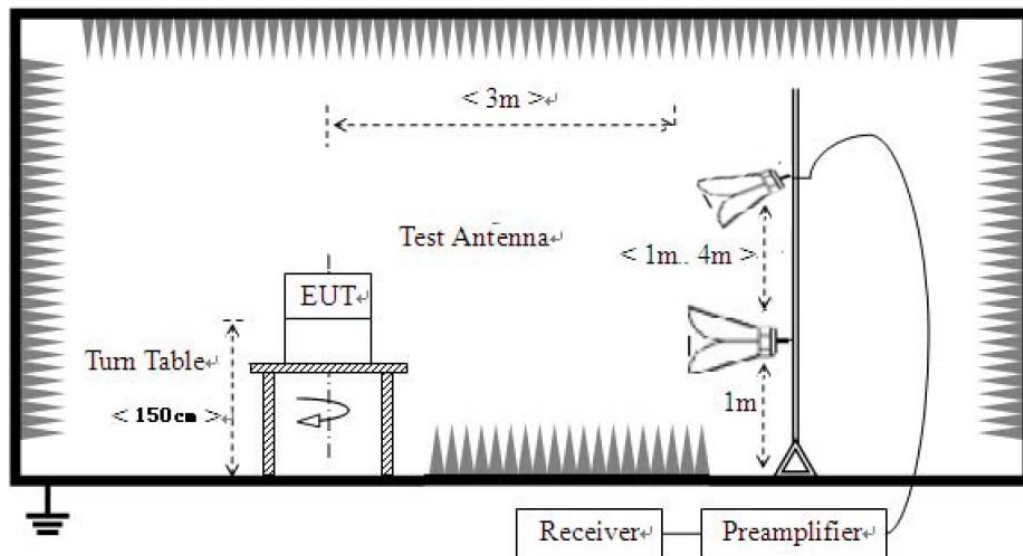
For radiated emissions from 9 KHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.5.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna 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.
4. 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.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

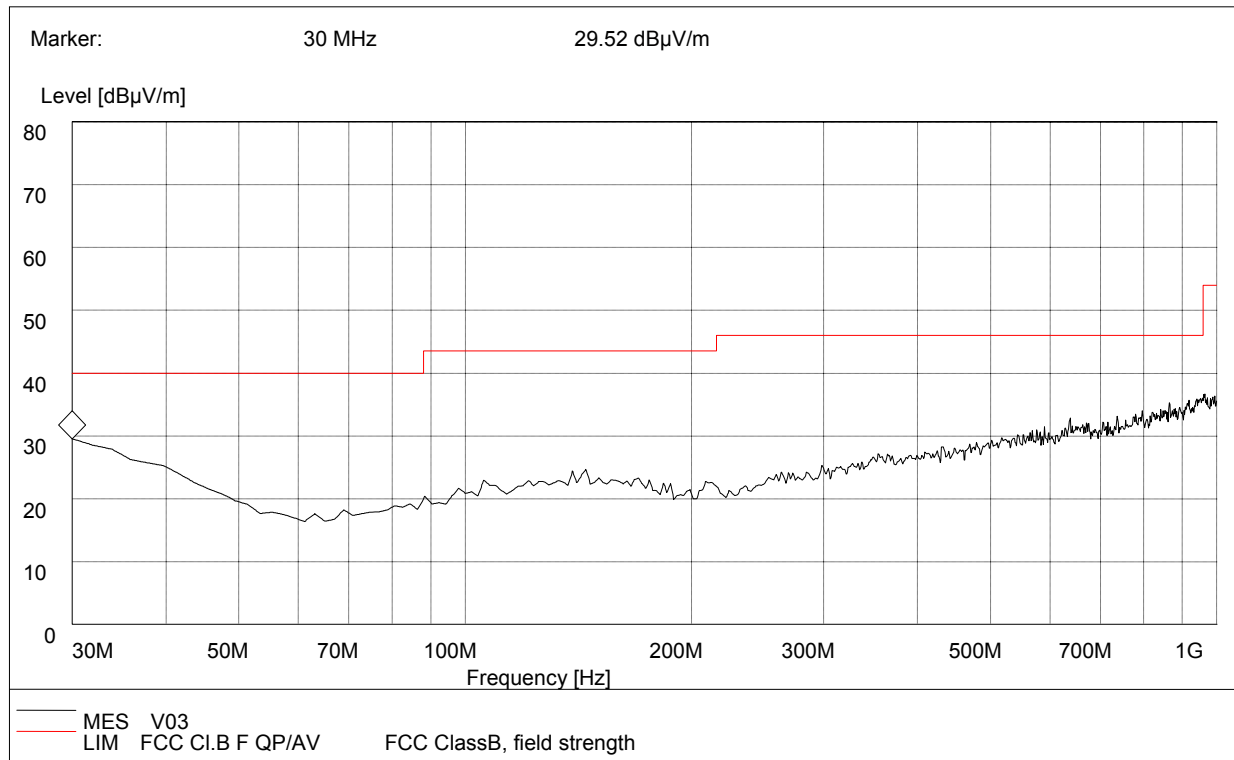
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

2.5.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 KHz to 30MHz

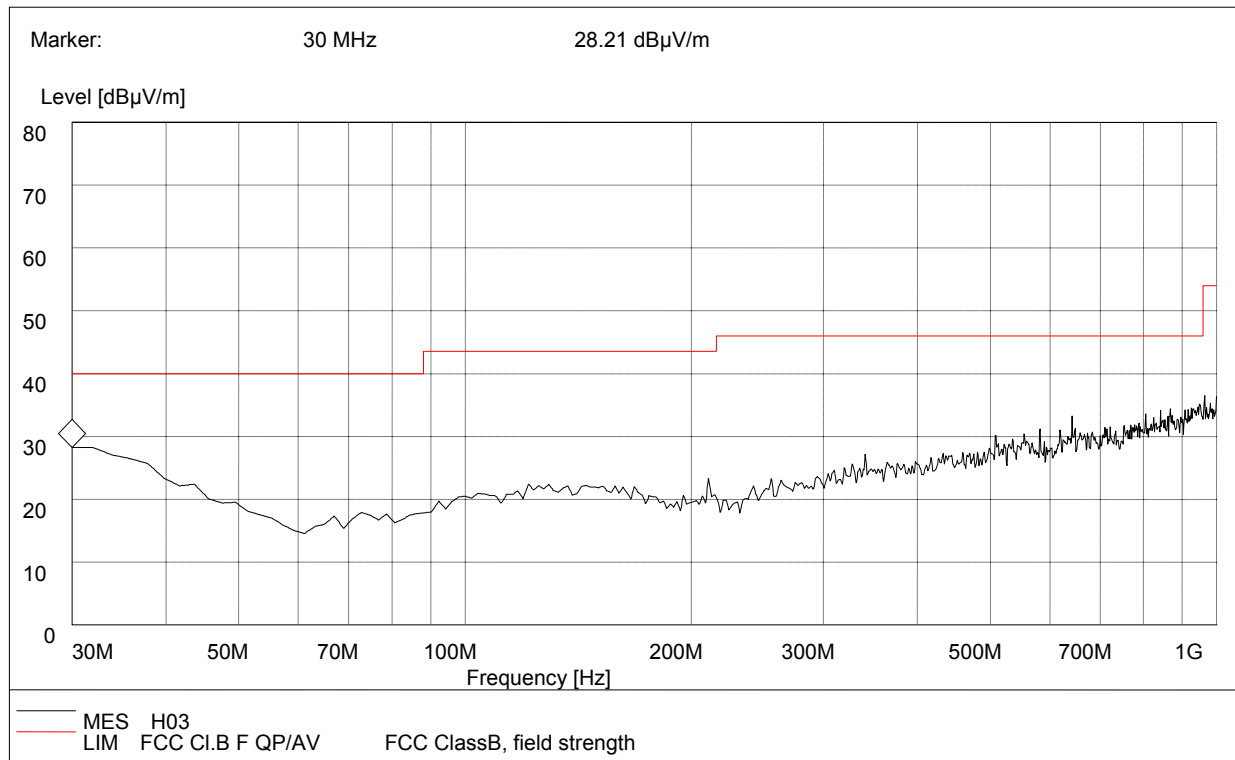
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
30.00	29.52	120.000	100.0	40.00	Vertical	Pass



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
30	28.21	120.000	100.0	40.00	Horizontal	Pass

For 1GHz to 40 GHz
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5180MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	43.72	PK	74	-30.28	2.50 H	260	36.22	7.5
2	5150	33.42	AV	54	-20.58	2.50 H	260	25.92	7.5
3	10360	50.26	PK	74	-23.74	1.80 H	120	30.46	19.8
4	10360	40.2	AV	54	-13.8	1.80 H	120	20.4	19.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5180MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	42.35	PK	74	-31.65	1.50 V	330	34.85	7.5
2	5150	32.37	AV	54	-21.63	1.50 V	330	24.87	7.5
3	10360	50.24	PK	74	-23.76	1.20 V	210	30.44	19.8
4	10360	40.39	AV	54	-13.61	1.20 V	210	20.59	19.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5220MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10400	51.18	PK	74	-22.82	1.80 H	120	31.28	19.9
2	10400	41.13	AV	54	-12.87	1.80 H	120	21.23	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5220MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10400	50.44	PK	74	-23.56	1.20 V	210	30.54	19.9
2	10400	40.08	AV	54	-13.92	1.20 V	210	20.18	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5240MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	44.16	PK	74	-29.84	2.50 H	260	36.16	8
2	5350	33.81	AV	54	-20.19	2.50 H	260	25.81	8
3	10480	50.39	PK	74	-23.61	1.80 H	120	30.49	19.9
4	10480	40.27	AV	54	-13.73	1.80 H	120	20.37	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5240MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	42.67	PK	74	-31.33	1.50 V	330	34.67	8
2	5350	32.53	AV	54	-21.47	1.50 V	330	24.53	8
3	10480	51.19	PK	74	-21.54	1.20 V	210	31.29	19.9
4	10480	40.84	AV	54	-11.6	1.20 V	210	20.94	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5260MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1.	5150.00	44.09	PK	74.00	-29.91	2.50 H	260	36.59	7.50
2.	5150.00	35.74	AV	54.00	-18.26	2.50 H	260	28.24	7.50
3.	10520.00	51.20	PK	74.00	-22.80	1.80 H	120	31.20	20.00
4.	10520.00	43.06	AV	54.00	-10.94	1.80 H	120	23.06	20.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5260MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1.	5150.00	42.29	PK	74.00	-31.71	1.50 V	330	34.79	7.50
2.	5150.00	34.14	AV	54.00	-19.86	1.50 V	330	26.64	7.50
3.	10520.00	51.34	PK	74.00	-22.66	1.20 V	210	31.34	20.00
4.	10520.00	42.98	AV	54.00	-11.02	1.20 V	210	22.98	20.00

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5300MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10600	52.65	PK	74	-21.35	1.50 H	48	32.65	20
2	10600	43.6	AV	54	-10.4	1.50 H	48	23.6	20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5300MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10600	50.78	PK	74	-23.22	1.50 V	49	30.78	20
2	10600	42.13	AV	54	-11.87	1.50 V	49	22.13	20

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5320MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	42.74	PK	74	-31.26	2.50 H	260	34.74	8
2	5350	34.99	AV	54	-19.01	2.50 H	260	26.99	8
3	10640	51.37	PK	74	-22.63	1.80 H	120	31.27	20.1
4	10640	43.23	AV	54	-10.77	1.80 H	120	23.13	20.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5320MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.69	PK	74	-30.31	1.50 V	330	35.69	8
2	5350	34.34	AV	54	-19.66	1.50 V	330	26.34	8
3	10640	51.17	PK	74	-22.83	1.20 V	210	31.07	20.1
4	10640	42.03	AV	54	-11.97	1.20 V	210	21.93	20.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5500MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	43.39	PK	74	-30.61	2.50 H	260	34.89	8.5
2	5460	35.65	AV	54	-18.35	2.50 H	260	27.15	8.5
3	5470	44.29	PK	74	-29.71	2.50 H	260	35.79	8.5
4	5470	36.55	AV	54	-17.45	2.50 H	260	28.05	8.5
5	11000	51.74	PK	74	-22.26	1.80 H	120	30.74	21
6	11000	43.39	AV	54	-10.61	1.80 H	120	22.39	21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5500MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	42.29	PK	74	-31.71	2.50 H	260	33.79	8.5
2	5460	33.64	AV	54	-20.36	2.50 H	260	25.14	8.5
3	5470	43.26	PK	74	-30.74	2.50 H	260	34.76	8.5
4	5470	34.61	AV	54	-19.39	2.50 H	260	26.11	8.5
5	11000	50.43	PK	74	-23.57	1.80 H	120	29.43	21
6	11000	42.58	AV	54	-11.42	1.80 H	120	21.58	21

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5580MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11160	51.35	PK	74	-22.65	1.50 H	66	29.85	21.5
2	11160	43.1	AV	54	-10.9	1.50 H	66	21.6	21.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5580MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11160	52.74	PK	74	-21.26	1.00 V	60	31.24	21.5
2	11160	43.89	AV	54	-10.11	1.00 V	60	22.39	21.5

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5700MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	44.58	PK	74	-29.42	1.00 H	48.00	34.93	9.65
2	5725	36.84	AV	54	-17.16	1.00 H	48.00	27.19	9.65
3	11400	51.11	PK	74	-22.89	1.20 H	65	29.61	21.5
4	11400	43.37	AV	54	-10.63	1.20 H	65	21.87	21.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5700MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	45.48	PK	74	-28.52	1.00 V	48.00	35.83	9.65
2	5725	36.83	AV	54	-17.17	1.00 V	48.00	27.18	9.65
3	11400	52.37	PK	74	-21.63	1.00 V	165	30.87	21.5
4	11400	44.79	AV	54	-9.21	1.00 V	165	23.29	21.5

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5745MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	43.25	PK	74	-30.75	1.00 H	48	33.60	9.65
2	5725	35.51	AV	54	-18.49	1.00 H	48	25.86	9.65
3	11490	50.47	PK	74	-23.53	1.50 H	44	28.77	21.7
4	11490	43.95	AV	54	-10.05	1.50 H	44	22.25	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5745MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	44.19	PK	74	-29.81	1.00 V	48	34.54	9.65
2	5725	35.54	AV	54	-18.46	1.00 V	48	25.89	9.65
3	11490	51.36	PK	74	-22.64	1.50 V	40	29.66	21.7
4	11490	44.82	AV	54	-9.18	1.50 V	40	23.12	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5785MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11570	52.68	PK	74	-21.32	1.00 H	35	30.98	21.7
2	11570	46	AV	54	-8	1.00 H	35	24.3	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5785MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11570	52.26	PK	74	-21.74	1.00 V	25	30.56	21.7
2	11570	45.68	AV	54	-8.32	1.00 V	25	23.98	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5825MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	45.25	PK	74	-28.75	1.00 H	48.00	35.47	9.78
2	5850	37.51	AV	54	-16.49	1.00 H	48.00	27.73	9.78
3	11650	53.39	PK	74	-20.61	1.20 H	25	31.49	21.9
4	11650	47.04	AV	54	-6.96	1.20 H	25	25.14	21.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5825MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	46.36	PK	74	-27.64	1.00 V	48.00	36.58	9.78
2	5850	37.71	AV	54	-16.29	1.00 V	48.00	27.93	9.78
3	11650	53.37	PK	74	-20.63	1.50 V	180	31.47	21.9
4	11650	46.83	AV	54	-7.17	1.50 V	180	24.93	21.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5180MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	43.36	PK	74	-30.64	2.50 H	250	35.86	7.5
2	5150	33.06	AV	54	-20.94	2.50 H	250	25.56	7.5
3	10360	51.25	PK	74	-22.75	1.80 H	118	31.45	19.8
4	10360	41.19	AV	54	-12.81	1.80 H	118	21.39	19.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5180MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	44.59	PK	74	-29.41	1.50 V	320	37.09	7.5
2	5150	34.61	AV	54	-19.39	1.50 V	320	27.11	7.5
3	10360	51.68	PK	74	-22.32	1.20 V	200	31.88	19.8
4	10360	41.83	AV	54	-12.17	1.20 V	200	22.03	19.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5220MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10400	52.18	PK	74	-21.82	1.80 H	120	32.28	19.9
2	10400	42.02	AV	54	-11.98	1.80 H	120	22.12	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5220MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10400	50.44	PK	74	-23.56	1.20 V	210	30.54	19.9
2	10400	40.18	AV	54	-13.82	1.20 V	210	20.28	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5240MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.69	PK	74	-30.31	2.50 H	260	35.69	8
2	5350	33.34	AV	54	-20.66	2.50 H	260	25.34	8
3	10480	51.26	PK	74	-22.74	1.80 H	120	31.36	19.9
4	10480	41.14	AV	54	-12.86	1.80 H	120	21.24	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5240MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	42.29	PK	74	-31.71	1.50 V	330	34.29	8
2	5350	32.15	AV	54	-21.85	1.50 V	330	24.15	8
3	10480	52.09	PK	74	-21.54	1.20 V	210	32.19	19.9
4	10480	41.74	AV	54	-11.6	1.20 V	210	21.84	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5260MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	44.07	PK	74.00	-29.93	2.50 H	260	36.57	7.50
2	5150.00	35.72	AV	54.00	-18.28	2.50 H	260	28.22	7.50
3	10520.00	53.00	PK	74.00	-21.00	1.80 H	120	33.00	20.00
4	10520.00	44.86	AV	54.00	-9.14	1.80 H	120	24.86	20.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5260MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	43.57	PK	74.00	-30.43	1.50 V	330	36.07	7.50
2	5150.00	35.42	AV	54.00	-18.58	1.50 V	330	27.92	7.50
3	10520.00	52.10	PK	74.00	-21.90	1.20 V	210	32.10	20.00
4	10520.00	43.74	AV	54.00	-10.26	1.20 V	210	23.74	20.00

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5300MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10600	51.26	PK	74	-22.74	1.50 H	220	31.26	20
2	10600	42.21	AV	54	-11.79	1.50 H	220	22.21	20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5300MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10600	50.27	PK	74	-23.73	1.50 V	150	30.27	20
2	10600	41.62	AV	54	-12.38	1.50 V	150	21.62	20

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5320MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	44.16	PK	74	-29.84	2.50 H	260	36.16	8
2	5350	36.41	AV	54	-17.59	2.50 H	260	28.41	8
3	10640	52.27	PK	74	-21.73	1.80 H	120	32.17	20.1
4	10640	44.13	AV	54	-9.87	1.80 H	120	24.03	20.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5320MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.36	PK	74	-30.64	1.50 V	330	35.36	8
2	5350	34.01	AV	54	-19.99	1.50 V	330	26.01	8
3	10640	52.15	PK	74	-21.85	1.20 V	210	32.05	20.1
4	10640	43.01	AV	54	-10.99	1.20 V	210	22.91	20.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5500MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	43.36	PK	74	-30.64	2.50 H	260	34.86	8.5
2	5460	35.62	AV	54	-18.38	2.50 H	260	27.12	8.5
3	5470	46.08	PK	74	-27.92	1.00 H	148	37.58	8.5
4	5470	38.34	AV	54	-15.66	1.00 H	148	29.84	8.5
5	11000	52.14	PK	74	-21.86	1.80 H	120	31.14	21
6	11000	43.79	AV	54	-10.21	1.80 H	120	22.79	21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5500MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	43.36	PK	74	-30.64	2.50 V	260	34.86	8.5
2	5460	34.71	AV	54	-19.29	2.50 V	260	26.21	8.5
3	5470	45.78	PK	74	-28.22	1.00 V	48	37.28	8.5
4	5470	37.13	AV	54	-16.87	1.00 V	48	28.63	8.5
5	11000	51.24	PK	74	-22.76	1.80 V	120	30.24	21
6	11000	43.39	AV	54	-10.61	1.80 V	120	22.39	21

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5580MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11160	52.24	PK	74	-21.76	1.50 H	120	30.74	21.5
2	11160	43.99	AV	54	-10.01	1.50 H	120	22.49	21.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5580MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11160	52.09	PK	74	-21.91	1.00 V	160	30.59	21.5
2	11160	43.24	AV	54	-10.76	1.00 V	160	21.74	21.5

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5700MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	48.87	PK	74	-25.13	1.00 H	210	39.22	9.65
2	5725	41.13	AV	54	-12.87	1.00 H	210	31.48	9.65
3	11400	52.14	PK	74	-21.86	2.20 H	165	30.64	21.5
4	11400	44.4	AV	54	-9.6	2.20 H	165	22.9	21.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5700MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	47.25	PK	74	-26.75	1.00 V	220	37.60	9.65
2	5725	38.60	AV	54	-15.40	1.00 V	220	28.95	9.65
3	11400	53.36	PK	74	-20.64	1.20 V	265	31.86	21.5
4	11400	45.78	AV	54	-8.22	1.20 V	265	24.28	21.5

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5745MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	48.69	PK	74	-25.31	1.00 H	200	39.04	9.65
2	5725	40.95	AV	54	-13.05	1.00 H	200	31.30	9.65
3	11490	49.85	PK	74	-24.15	1.20 H	340	28.15	21.7
2	11490	43.33	AV	54	-10.67	1.20 H	340	21.63	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5745MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	48.18	PK	74	-25.82	1.00 V	180	38.53	9.65
2	5725	39.53	AV	54	-14.47	1.00 V	180	29.88	9.65
3	11490	50.74	PK	74	-23.26	1.00 V	350	29.04	21.7
4	11490	44.2	AV	54	-9.8	1.00 V	350	22.5	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5785MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11570	53.36	PK	74	-20.64	1.00 H	130	31.66	21.7
2	11570	46.68	AV	54	-7.32	1.00 H	130	24.98	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5785MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11570	52.49	PK	74	-21.51	1.00 V	260	30.79	21.7
2	11570	45.91	AV	54	-8.09	1.00 V	260	24.21	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5825MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	46.69	PK	74	-27.31	1.00 H	180	36.91	9.78
2	5850	38.95	AV	54	-15.05	1.00 H	180	29.17	9.78
3	11650	52.49	PK	74	-21.51	1.20 H	125	30.59	21.9
4	11650	46.14	AV	54	-7.86	1.20 H	125	24.24	21.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5825MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	47.59	PK	74	-26.41	1.00 V	180	37.81	9.78
2	5850	38.94	AV	54	-15.06	1.00 V	180	29.16	9.78
3	11650	51.04	PK	74	-22.96	1.20 V	320	29.14	21.9
4	11650	44.5	AV	54	-9.5	1.20 V	320	22.6	21.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5190MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	42.25	PK	74	-31.75	1.50 H	48	34.75	7.5
2	5150	31.47	AV	54	-22.53	1.50 H	49	23.97	7.5
3	10380	51.18	PK	74	-22.82	1.20 H	320	31.38	19.8
4	10380	40.89	AV	54	-13.11	1.20 H	320	21.09	19.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5190MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	41.65	PK	74	-32.35	1.50 V	250	34.15	7.5
2	5150	31.67	AV	54	-22.33	1.50 V	250	24.17	7.5
3	10380	52.26	PK	74	-21.74	1.20 V	270	32.46	19.8
4	10380	42.41	AV	54	-11.59	1.20 V	270	22.61	19.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5230MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.65	PK	74	-30.35	2.00 H	120	35.65	8
2	5350	33.3	AV	54	-20.70	2.00 H	120	25.3	8
3	10460	52.27	PK	74	-21.73	1.80 H	250	32.37	19.9
4	10460	42.15	AV	54	-11.85	1.80 H	250	22.25	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5230MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	44.25	PK	74	-29.75	1.50 V	249	36.25	8
2	5350	34.11	AV	54	-19.89	1.50 V	249	26.11	8
3	10460	53.34	PK	74	-21.54	1.20 V	34	33.44	19.9
4	10460	42.99	AV	54	-11.6	1.20 V	34	23.09	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5270MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5250	42.57	PK	74	-31.43	1.50 H	88	35.07	7.5
2	5250	34.22	AV	54	-19.78	1.50 H	88	26.72	7.5
3	10540	51.21	PK	74	-22.79	1.50 H	36	31.21	20
4	10540	43.07	AV	54	-10.93	1.50 H	36	23.07	20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5270MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5250	43.32	PK	74	-30.68	1.50 V	48	35.82	7.5
2	5250	33.17	AV	54	-20.83	1.50 V	48	25.67	7.5
3	10540	52.34	PK	74	-21.66	1.50 V	36	32.34	20
4	10540	41.98	AV	54	-12.02	1.50 V	36	21.98	20

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5310MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.25	PK	74	-30.75	1.20 H	230	35.25	8
2	5350	35.5	AV	54	-18.5	1.20 H	230	27.5	8
3	10640	51.18	PK	74	-22.82	1.50 H	150	31.08	20.1
4	10640	43.04	AV	54	-10.96	1.50 H	150	22.94	20.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5310MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	42.36	PK	74	-31.64	1.50 V	120	34.36	8
2	5350	33.01	AV	54	-20.99	1.50 V	120	25.01	8
3	10620	52.21	PK	74	-21.79	1.00 V	180	32.11	20.1
4	10620	43.07	AV	54	-10.93	1.00 V	180	22.97	20.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5510MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	43.26	PK	74	-30.74	1.50 H	79	34.76	8.5
2	5460	35.52	AV	54	-18.48	1.50 H	79	27.02	8.5
3	5470	44.25	PK	74	-29.75	1.00 H	148	35.75	8.5
4	5470	36.51	AV	54	-17.49	1.00 H	148	28.01	8.5
5	11020	52.15	PK	74	-21.85	1.30 H	260	31.15	21
6	11020	43.82	AV	54	-10.18	1.30 H	260	22.82	21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5510MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	43.12	PK	74	-30.88	1.20 V	120	34.62	8.5
2	5460	34.47	AV	54	-19.53	1.20 V	120	25.97	8.5
3	5470	44.19	PK	74	-29.81	1.00 V	48	35.69	8.5
4	5470	35.54	AV	54	-18.46	1.00 V	48	27.04	8.5
5	11020	52.18	PK	74	-21.82	1.30 V	150	31.18	21
6	11020	44.33	AV	54	-9.67	1.30 V	150	23.33	21

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5670MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11340	50.36	PK	74	-23.64	1.20 H	250	28.96	21.4
2	11340	42.62	AV	54	-11.38	1.20 H	250	21.22	21.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5670MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11340	51.36	PK	74	-22.64	1.50 V	320	29.96	21.4
2	11340	43.78	AV	54	-10.22	1.50 V	320	22.38	21.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5755MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	47.71	PK	74	-26.29	1.00 H	200	38.06	9.65
2	5725	39.97	AV	54	-14.03	1.00 H	200	30.32	9.65
3	11510	50.06	PK	74	-23.94	1.50 H	330	28.36	21.7
4	11510	43.54	AV	54	-10.46	1.50 H	330	21.84	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5755MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	45.36	PK	74	-28.64	1.00 V	180	35.71	9.65
2	5725	36.71	AV	54	-17.29	1.00 V	180	27.06	9.65
3	11510.00	50.63	PK	74	-23.37	1.50 V	0	28.73	21.7
4	11510.00	41.33	AV	54	-12.67	1.50 V	0	19.43	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5795MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	48.87	PK	74	-25.13	1.00 H	180	39.09	9.78
2	5850	41.13	AV	54	-12.87	1.00 H	180	31.35	9.78
3	11590	51.15	PK	74	-22.85	1.50 H	135	29.35	21.8
4	11590	44.47	AV	54	-9.53	1.50 H	135	22.67	21.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5795MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	48.05	PK	74	-25.95	1.00 V	180	38.27	9.78
2	5850	39.40	AV	54	-14.60	1.00 V	180	29.62	9.78
3	11590	52.23	PK	74	-21.77	1.20 V	120	30.43	21.8
4	11590	45.65	AV	54	-8.35	1.20 V	120	23.85	21.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5180MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	43.36	PK	74	-30.64	2.50 H	250	35.86	7.5
2	5150	33.06	AV	54	-20.94	2.50 H	250	25.56	7.5
3	10360	52.16	PK	74	-21.84	1.80 H	118	32.36	19.8
4	10360	42.10	AV	54	-11.9	1.80 H	118	22.3	19.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5180MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	43.39	PK	74	-30.61	1.50 V	320	35.89	7.5
2	5150	33.41	AV	54	-20.59	1.50 V	320	25.91	7.5
3	10360	52.25	PK	74	-21.75	1.20 V	200	32.45	19.8
4	10360	42.40	AV	54	-11.6	1.20 V	200	22.6	19.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5220MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10400	51.78	PK	74	-22.22	1.80 H	120	31.88	19.9
2	10400	41.62	AV	54	-12.38	1.80 H	120	21.72	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5220MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10400	52.06	PK	74	-21.94	1.20 V	210	32.16	19.9
2	10400	41.8	AV	54	-12.2	1.20 V	210	21.9	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5240MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	44.06	PK	74	-29.94	2.50 H	260	36.06	8
2	5350	33.71	AV	54	-20.29	2.50 H	260	25.71	8
3	10480	50.26	PK	74	-23.74	1.80 H	120	30.36	19.9
4	10480	40.14	AV	54	-13.86	1.80 H	120	20.24	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5240MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.36	PK	74	-30.64	1.50 V	330	35.36	8
2	5350	33.22	AV	54	-20.78	1.50 V	330	25.22	8
3	10480	51.06	PK	74	-21.54	1.20 V	210	31.16	19.9
4	10480	40.71	AV	54	-11.6	1.20 V	210	20.81	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5260MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	43.26	PK	74.00	-30.74	2.50 H	260	35.76	7.50
2	5150.00	34.91	AV	54.00	-19.09	2.50 H	260	27.41	7.50
3	10520.00	51.15	PK	74.00	-22.85	1.80 H	120	31.15	20.00
4	10520.00	43.01	AV	54.00	-10.99	1.80 H	120	23.01	20.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5260MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	42.06	PK	74.00	-31.94	1.50 V	330	34.56	7.50
2	5150.00	33.91	AV	54.00	-20.09	1.50 V	330	26.41	7.50
3	10520.00	51.06	PK	74.00	-22.94	1.20 V	210	31.06	20.00
4	10520.00	42.70	AV	54.00	-11.30	1.20 V	210	22.70	20.00

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5300MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10600	50.36	PK	74	-23.64	1.50 H	220	30.36	20
2	10600	41.31	AV	54	-12.69	1.50 H	220	21.31	20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5300MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	10600	51.26	PK	74	-22.74	1.50 V	150	31.26	20
2	10600	42.61	AV	54	-11.39	1.50 V	150	22.61	20

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5320MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	42.13	PK	74	-31.87	2.50 H	260	34.13	8
2	5350	34.38	AV	54	-19.62	2.50 H	260	26.38	8
3	10640	51.06	PK	74	-22.94	1.80 H	120	30.96	20.1
4	10640	42.92	AV	54	-11.08	1.80 H	120	22.82	20.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5320MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	44.15	PK	74	-29.85	1.50 V	330	36.15	8
2	5350	34.8	AV	54	-19.2	1.50 V	330	26.8	8
3	10640	51.64	PK	74	-22.36	1.20 V	210	31.54	20.1
4	10640	42.5	AV	54	-11.5	1.20 V	210	22.4	20.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5500MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	44.15	PK	74	-29.85	2.50 H	260	35.65	8.5
2	5460	36.41	AV	54	-17.59	2.50 H	260	27.91	8.5
3	5470	48.95	PK	74	-25.05	1.20 H	180	40.45	8.5
4	5470	41.21	AV	54	-12.79	1.20 H	180	32.71	8.5
5	11000	51.06	PK	74	-22.94	1.80 H	120	30.06	21
6	11000	42.71	AV	54	-11.29	1.80 H	120	21.71	21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5500MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	44.41	PK	74	-29.59	2.50 V	260	35.91	8.5
2	5460	35.76	AV	54	-18.24	2.50 V	260	27.26	8.5
3	5470	47.70	PK	74	-26.30	1.00 V	180	39.20	8.5
4	5470	39.05	AV	54	-14.95	1.00 V	180	30.55	8.5
5	11000	52.31	PK	74	-21.69	1.80 V	120	31.31	21
6	11000	44.46	AV	54	-9.54	1.80 V	120	23.46	21

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5580MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11160	51.26	PK	74	-22.74	1.50 H	120	29.76	21.5
2	11160	43.01	AV	54	-10.99	1.50 H	120	21.51	21.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5580MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11160	51.18	PK	74	-22.82	1.00 V	160	29.68	21.5
2	11160	42.33	AV	54	-11.67	1.00 V	160	20.83	21.5

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5700MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	45.25	PK	74	-28.75	1.00 H	210	35.60	9.65
2	5725	37.51	AV	54	-16.49	1.00 H	210	27.86	9.65
3	11400	51.18	PK	74	-22.82	2.20 H	165	29.68	21.5
4	11400	43.44	AV	54	-10.56	2.20 H	165	21.94	21.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5700MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	45.50	PK	74	-28.50	1.00 V	180	35.85	9.65
2	5725	36.85	AV	54	-17.15	1.00 V	180	27.20	9.65
3	11400	51.19	PK	74	-22.81	1.20 V	265	29.69	21.5
4	11400	43.61	AV	54	-10.39	1.20 V	265	22.11	21.5

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5745MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	46.63	PK	74	-27.37	1.00 H	120	36.98	9.65
2	5725	38.89	AV	54	-15.11	1.00 H	120	29.24	9.65
3	11490	53.09	PK	74	-20.91	1.20 H	340	31.39	21.7
4	11490	46.57	AV	54	-7.43	1.20 H	340	24.87	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5745MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	47.25	PK	74	-26.75	1.00 V	360	37.60	9.65
2	5725	38.60	AV	54	-15.40	1.00 V	360	28.95	9.65
3	11490	51.79	PK	74	-22.21	1.00 V	350	30.09	21.7
4	11490	45.25	AV	54	-8.75	1.00 V	350	23.55	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5785MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11570	52.46	PK	74	-21.54	1.00 H	130	30.76	21.7
2	11570	45.78	AV	54	-8.22	1.00 H	130	24.08	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5785MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11570	53.3	PK	74	-20.7	1.00 V	260	31.6	21.7
2	11570	46.72	AV	54	-7.28	1.00 V	260	25.02	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5825MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	49.65	PK	74	-24.35	1.00 H	180	39.87	9.78
2	5850	41.91	AV	54	-12.09	1.00 H	180	32.13	9.78
3	11650	50.98	PK	74	-23.02	1.20 H	125	29.08	21.9
4	11650	44.63	AV	54	-9.37	1.20 H	125	22.73	21.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5825MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	48.52	PK	74	-25.48	1.00 V	180	38.74	9.78
2	5850	39.87	AV	54	-14.13	1.00 V	180	30.09	9.78
3	11650	51.79	PK	74	-22.21	1.20 V	320	29.89	21.9
4	11650	45.25	AV	54	-8.75	1.20 V	320	23.35	21.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5190MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	44.15	PK	74	-29.85	1.50 H	48	36.65	7.5
2	5150	33.37	AV	54	-20.63	1.50 H	49	25.87	7.5
3	10380	51.09	PK	74	-22.91	1.20 H	320	31.29	19.8
4	10380	40.8	AV	54	-13.2	1.20 H	320	21	19.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5190MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	43.69	PK	74	-30.31	1.50 V	250	36.19	7.5
2	5150	33.71	AV	54	-20.29	1.50 V	250	26.21	7.5
3	10380	52.27	PK	74	-21.73	1.20 V	270	32.47	19.8
4	10380	42.42	AV	54	-11.58	1.20 V	270	22.62	19.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5230MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.39	PK	74	-30.61	2.00 H	120	35.39	8
2	5350	33.04	AV	54	-20.96	2.00 H	120	25.04	8
3	10460	51.87	PK	74	-22.13	1.80 H	250	31.97	19.9
4	10460	41.75	AV	54	-12.25	1.80 H	250	21.85	19.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5230MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.69	PK	74	-30.31	1.50 V	249	35.69	8
2	5350	33.55	AV	54	-20.45	1.50 V	249	25.55	8
3	10460	52.29	PK	74	-21.54	1.20 V	34	32.39	19.9
4	10460	41.94	AV	54	-11.6	1.20 V	34	22.04	19.9

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5270MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	43.36	PK	74	-30.64	1.50 H	88	35.86	7.5
2	5150	35.01	AV	54	-18.99	1.50 H	88	27.51	7.5
3	10540	52.19	PK	74	-21.81	1.50 H	36	32.19	20
4	10540	44.05	AV	54	-9.95	1.50 H	36	24.05	20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5270MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150	44.16	PK	74	-29.84	1.50 V	48	36.66	7.5
2	5150	34.01	AV	54	-19.99	1.50 V	48	26.51	7.5
3	10540	53.66	PK	74	-20.34	1.50 V	36	33.66	20
4	10540	43.3	AV	54	-10.7	1.50 V	36	23.3	20

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5310MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	44.64	PK	74	-29.36	1.20H	230	36.64	8
2	5350	33.89	AV	54	-20.11	1.20H	230	25.89	8
3	10640	52.44	PK	74	-21.56	1.50 H	150	32.34	20.1
4	10640	44.3	AV	54	-9.7	1.50 H	150	24.2	20.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5310MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350	43.34	PK	74	-30.66	1.50 V	120	35.34	8
2	5350	33.99	AV	54	-20.01	1.50 V	120	25.99	8
3	10620	51.09	PK	74	-22.91	1.00 H	180	30.99	20.1
4	10620	41.95	AV	54	-12.05	1.00 H	180	21.85	20.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5510MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	43.58	PK	74	-30.42	1.50 H	79	35.08	8.5
2	5460	32.84	AV	54	-21.16	1.50 H	79	24.34	8.5
3	5470	47.26	PK	74	-26.74	1.20 H	18	38.76	8.5
4	5470	39.52	AV	54	-14.48	1.20 H	18	31.02	8.5
5	11020	52.29	PK	74	-21.71	1.30 H	260	31.29	21
6	11020	41.83	AV	54	-12.17	1.30 H	260	20.83	21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5510MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460	43.12	PK	74	-30.88	1.20 V	120	34.62	8.5
2	5460	32.47	AV	54	-21.53	1.20 V	120	23.97	8.5
3	5470	46.18	PK	74	-27.82	1.00 V	120	37.68	8.5
4	5470	37.53	AV	54	-16.47	1.00 V	120	29.03	8.5
5	11020	52.18	PK	74	-21.82	1.30 V	150	31.18	21
6	11020	41.33	AV	54	-12.67	1.30 V	150	20.33	21

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5670MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11340	52.26	PK	74	-21.74	1.20 H	250	30.86	21.4
2	11340	41.52	AV	54	-12.48	1.20 H	250	20.12	21.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5670MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	11340	51.24	PK	74	-22.76	1.50 V	320	29.84	21.4
2	11340	40.66	AV	54	-13.34	1.50 V	320	19.26	21.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5755MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	45.52	PK	74	-28.48	2.00 H	100	35.87	9.65
2	5725	37.78	AV	54	-16.22	2.00 H	100	28.13	9.65
3	11510	52.46	PK	74	-21.54	1.50 H	330	30.76	21.7
4	11510	41.94	AV	54	-12.06	1.50 H	330	20.24	21.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5755MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5725	44.12	PK	74	-29.88	1.50 V	180	34.47	9.65
2	5725	35.47	AV	54	-18.53	1.50 V	180	25.82	9.65
3	11510	53.32	PK	74	-20.68	1.80 V	250	31.62	21.7
4	11510	42.78	AV	54	-11.22	1.80 V	250	21.08	21.7

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5795MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	46.25	PK	74	-27.75	1.00 H	180	36.47	9.78
2	5850	38.51	AV	54	-15.49	1.00 H	180	28.73	9.78
3	11590	51.17	PK	74	-22.83	1.50 H	135	29.37	21.8
4	11590	40.49	AV	54	-13.51	1.50 H	135	18.69	21.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5795MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850	46.65	PK	74	-27.35	1.00 V	180	36.87	9.78
2	5850	38.00	AV	54	-16.00	1.00 V	180	28.22	9.78
3	11590	52.37	PK	74	-21.63	1.20 V	120	30.57	21.8
4	11590	41.79	AV	54	-12.21	1.20 V	120	19.99	21.8

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5210MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	44.36	PK	74.00	-29.64	1.50 H	48.00	36.86	7.50
2	5150.00	33.70	AV	54.00	-20.30	1.50 H	49.00	26.20	7.50
3	10420.00	52.63	PK	74.00	-21.37	1.20 H	320.00	32.73	19.90
4	10420.00	42.05	AV	54.00	-11.95	1.20 H	320.00	22.15	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5210MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5150.00	45.26	PK	74.00	-28.74	1.50 V	250.00	37.76	7.50
2	5150.00	35.28	AV	54.00	-18.72	1.50 V	250.00	27.78	7.50
3	10420.00	52.36	PK	74.00	-21.64	1.20 V	270.00	32.46	19.90
4	10420.00	42.51	AV	54.00	-11.49	1.20 V	270.00	22.61	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5290MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350.00	44.74	PK	74.00	-29.26	2.00 H	120.00	36.74	8.00
2	5350.00	34.39	AV	54.00	-19.61	2.00 H	120.00	26.39	8.00
3	10580.00	52.26	PK	74.00	-21.74	1.80 H	250.00	32.26	20.00
4	10580.00	42.14	AV	54.00	-11.86	1.80 H	250.00	22.14	20.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5290MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5350.00	43.26	PK	74.00	-30.74	1.50 V	49.00	35.26	8.00
2	5350.00	33.12	AV	54.00	-20.88	1.50 V	49.00	25.12	8.00
3	10580.00	50.35	PK	74.00	-21.54	1.20 V	34.00	30.35	20.00
4	10580.00	40.00	AV	54.00	-11.60	1.20 V	34.00	20.00	20.00

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5530MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460.00	43.36	PK	74.00	-30.64	1.00 H	48.00	34.86	8.50
2	5460.00	35.62	AV	54.00	-18.38	1.00 H	48.00	27.12	8.50
3	5470.00	45.08	PK	74.00	-28.92	1.20 H	180.00	36.58	8.50
4	5470.00	37.34	AV	54.00	-16.66	1.20 H	180.00	28.84	8.50
5	11060.00	51.67	PK	74.00	-22.33	1.30 H	42.00	30.67	21.00
6	11060.00	43.32	AV	54.00	-10.68	1.30 H	42.00	22.32	21.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5530MHz)

No.	Frequency (MHz)	Emssion Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5460.00	43.33	PK	74.00	-30.67	1.00 V	48.00	34.83	8.50
2	5460.00	34.68	AV	54.00	-19.32	1.00 V	48.00	26.18	8.50
3	5470.00	45.78	PK	74.00	-28.22	1.00 V	0.00	37.28	8.50
4	5470.00	37.13	AV	54.00	-16.87	1.00 V	0.00	28.63	8.50
5	11060.00	51.26	PK	74.00	-22.74	1.30 V	45.00	30.26	21.00
6	11060.00	43.41	AV	54.00	-10.59	1.30 V	45.00	22.41	21.00

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5775MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850.00	49.58	PK	74.00	-24.42	1.00 H	180.00	39.80	9.78
2	5850.00	41.84	AV	54.00	-12.16	1.00 H	180.00	32.06	9.78
3	11550.00	45.36	PK	74.00	-28.64	2.20 H	165.00	23.56	21.80
4	11550.00	37.62	AV	54.00	-16.38	2.20 H	165.00	15.82	21.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5775MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)
1	5850.00	48.81	PK	74.00	-25.19	1.00 V	180.00	39.03	9.78
2	5850.00	40.16	AV	54.00	-13.84	1.00 V	180.00	30.38	9.78
3	11550.00	43.22	PK	74.00	-30.78	2.00 V	230.00	21.42	21.80
4	11550.00	35.64	AV	54.00	-18.36	2.00 V	230.00	13.84	21.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

2.6. Conducted Emission

2.6.1. Limit of Conducted Emission

FCC 15.207,

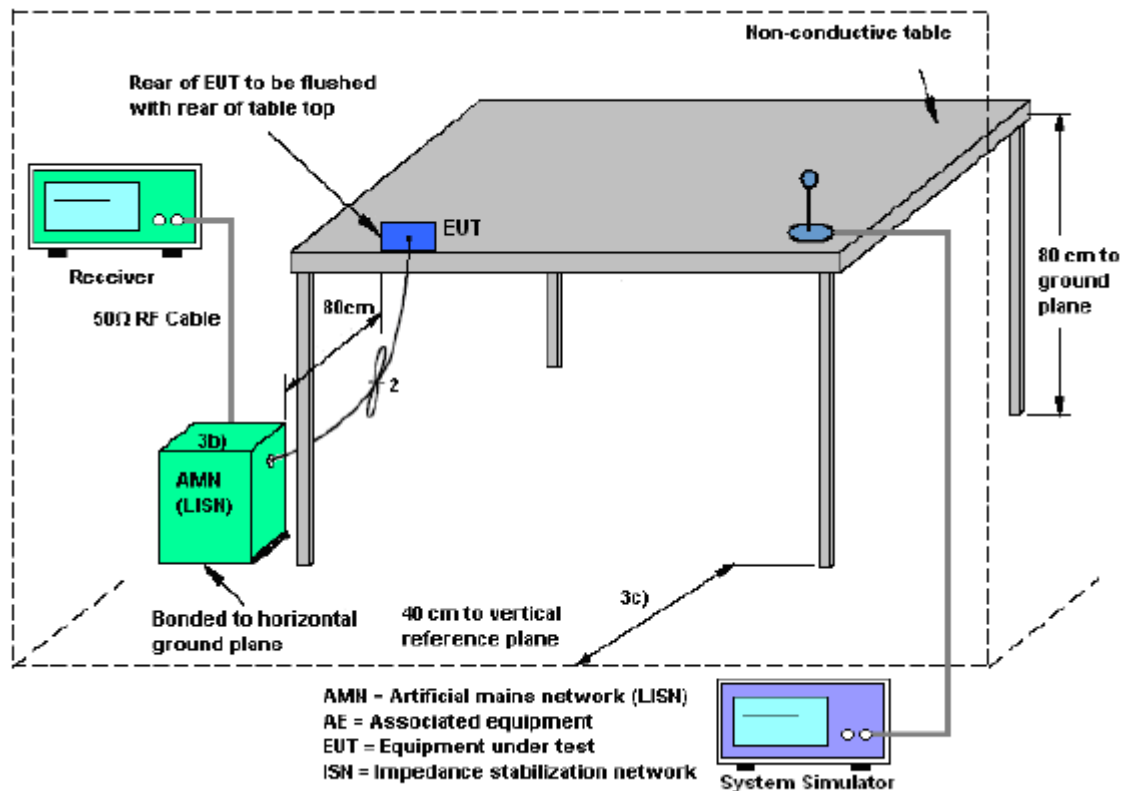
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.6.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

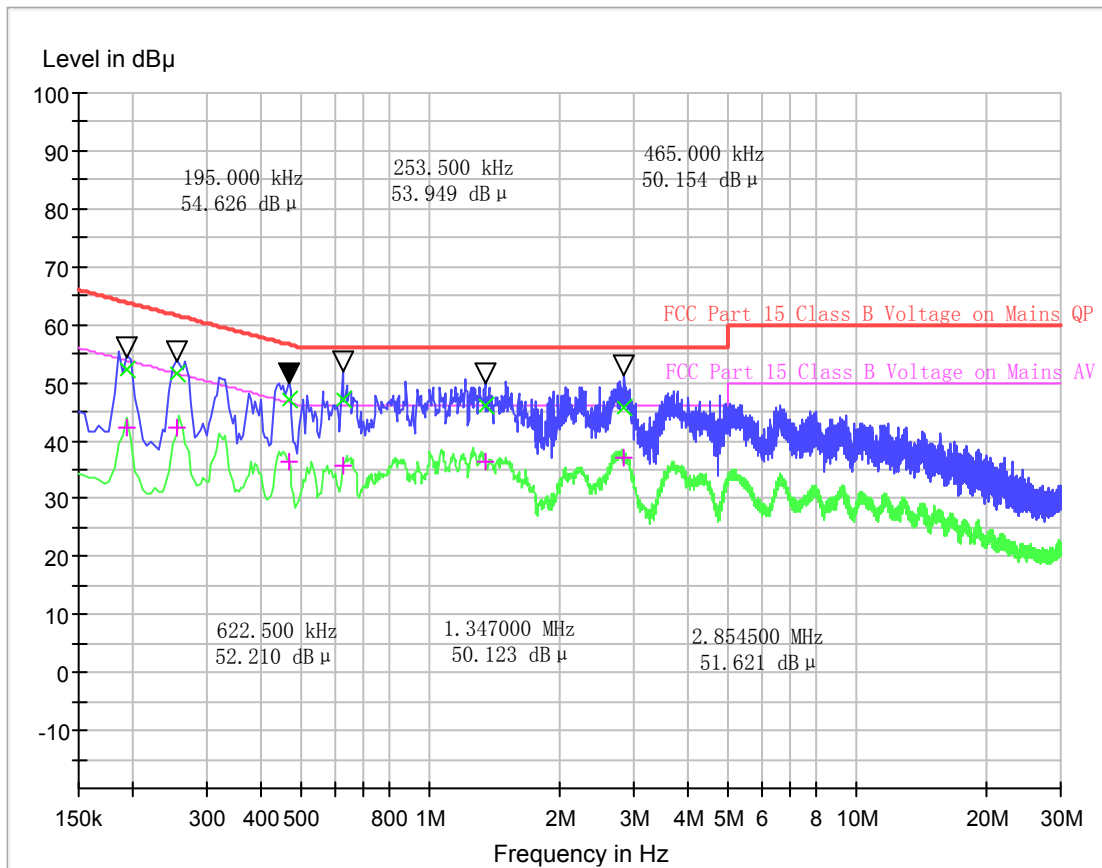


2.6.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.6.5. Test Results of Conducted Emission

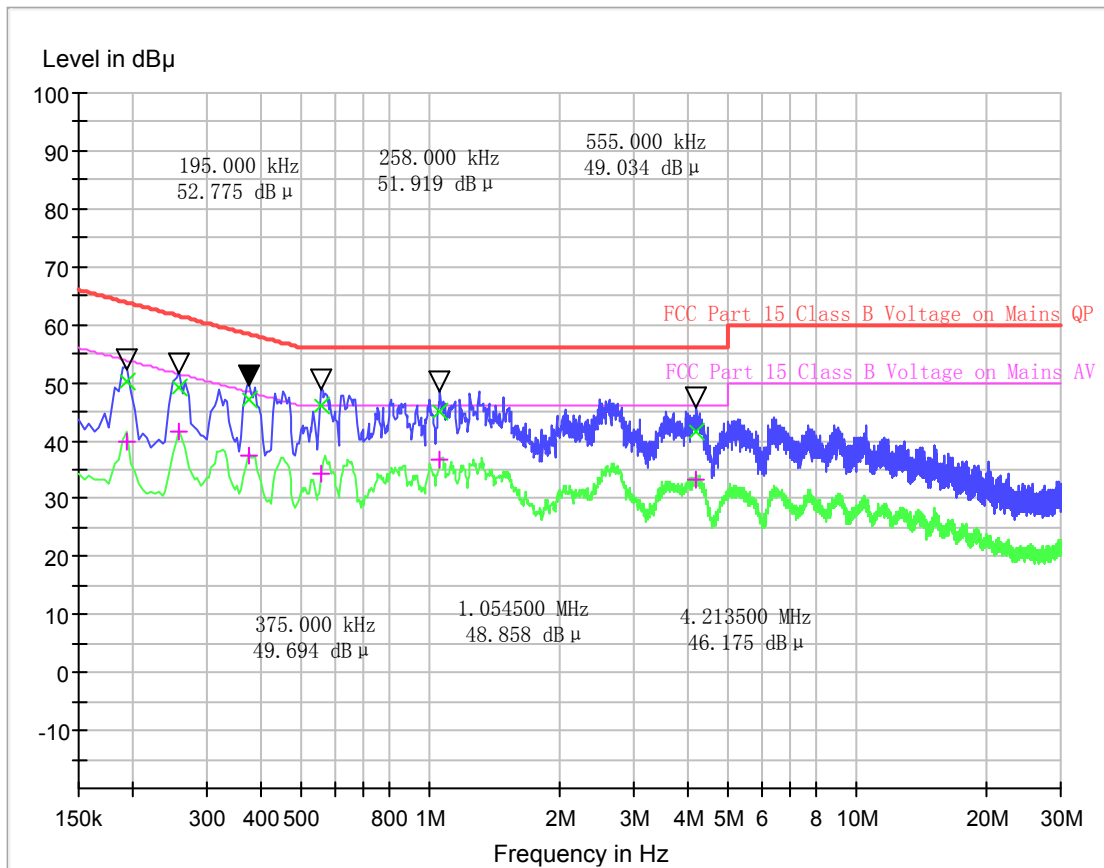
The EUT configuration of the emission tests is WLAN Link + USB Cable (Charging from Adapter)



Conducted Disturbance at Mains Terminals

L Test Data

QP			AV		
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)
0.195000	63.8	52.22	0.195000	63.8	42.12
0.253500	61.6	51.59	0.253500	61.6	42.10
0.465000	56.6	46.93	0.465000	56.6	36.23
0.622500	56.0	47.17	0.622500	56.0	35.82
1.347000	56.0	45.90	1.347000	56.0	36.48
2.854500	56.0	45.67	2.854500	56.0	36.89



Conducted Disturbance at Mains Terminals

N Test Data

QP			AV		
Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)
0.195000	63.8	50.04	0.195000	53.8	39.98
0.258000	61.5	49.01	0.258000	51.5	41.45
0.375000	58.4	47.13	0.375000	48.4	37.32
0.555000	56.0	45.91	0.555000	46.0	34.27
1.054500	56.0	45.05	1.054500	46.0	36.55
4.213500	56.0	41.47	4.213500	46.0	33.37

3. List of measuring equipment

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	11/12/2017
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	11/12/2017
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	11/12/2017
8	Amplifer	Sonoma	310N	E009-13	11/12/2017
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	11/12/2017
10	High pass filter	Compliance Direction systems	BSU-6	34202	11/12/2017
11	HORNANTENNA	ShwarzBeck	9120D	1012	11/12/2017
12	Amplifer	Compliance Direction systems	PAP1-4060	120	11/12/2017
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	11/12/2017
14	TURNTABLE	MATURO	TT2.0	----	N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	11/12/2017
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	11/12/2017