



10. Maximum Output Power

10.1. Block diagram of test setup

Same as section 8.1

10.2. Limits

| FCC Part15, Subpart E | | | | | |
|-----------------------|---|--------------------------|--|--|--|
| Test Item | Limit | Frequency Range (MHz) | | | |
| | Outdoor Access Point: 1 W (30 dBm) | | | | |
| | □ Indoor Access Point: 1 W (30 dBm) | 5150-5250 | | | |
| | ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) | 5150-5250 | | | |
| Conducted | ☐ Client Devices: 250 mW (24 dBm) | | | | |
| Output Power | Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. | 5250-5350 5470-5725 | | | |
| | Shall not exceed 1 Watt (30 dBm). | 5725-5850 | | | |

Note: The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in db that the directional gain of the antenna exceeds 6 dBi.

10.3. Test Procedure

- (1) Connect each EUT's antenna output to power meter by RF cable and attenuator
- (2) Add each antenna port's results to get the total output power of EUT.

| 10.4. 1 | est Res | Suit | | | | | |
|----------------|---------|-------|---------------|-----------|--------|-------------------------|---------|
| Test | Ant | Freq. | Channel Power | DC Factor | Result | Limit | Vordiat |
| Mode | Ant. | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | Verdict |
| | | 5180 | 7.74 | 0.15 | 7.89 | ≤23.98 | PASS |
| | | 5220 | 7.42 | 0.12 | 7.54 | ≤23.98 | PASS |
| | | 5240 | 7.60 | 0.12 | 7.72 | ≤23.98 | PASS |
| | | 5260 | 7.65 | 0.12 | 7.77 | ≤23.90 | PASS |
| | | 5300 | 7.27 | 0.12 | 7.39 | <u>≤23.95</u> | PASS |
| | | 5320 | 7.16 | 0.12 | 7.31 | <u>≤23.98</u> | PASS |
| 11A | Ant1 | 5500 | 4.53 | 0.10 | 4.65 | <u>0.00</u> ≤23.98 | PASS |
| | | 5580 | 4.84 | 0.12 | 4.99 | <u>≤23.98</u> | PASS |
| | | 5700 | 4.93 | 0.15 | 5.08 | <u></u> ≤23.91 | PASS |
| | | 5745 | 6.85 | 0.15 | 7.00 | ≤30.00 | PASS |
| | | 5785 | 6.92 | 0.15 | 7.07 | ≤30.00 | PASS |
| | | 5825 | 6.22 | 0.15 | 6.37 | ≤30.00 | PASS |
| | | 5180 | 7.50 | 0.13 | 7.63 | <u>≤23.98</u> | PASS |
| | | 5220 | 7.27 | 0.13 | 7.40 | ≤23.98 | PASS |
| | | 5240 | 7.35 | 0.13 | 7.48 | <u>≤23.90</u> | PASS |
| | | 5260 | 7.52 | 0.13 | 7.65 | <u>≤23.90</u> | PASS |
| | | 5300 | 7.09 | 0.16 | 7.25 | <u>≤23.90</u> | PASS |
| 11N20SIS | | 5320 | 6.97 | 0.13 | 7.10 | ≤23.98 ≤23.98 | PASS |
| 0 | Ant1 | 5500 | 4.39 | 0.13 | 4.55 | ≤23.96 ≤23.98 | PASS |
| 0 | | 5580 | 4.68 | 0.16 | 4.33 | ≤23.98 | PASS |
| | | 5700 | 4.08 | 0.13 | 4.84 | ≤23.98 | PASS |
| | | 5745 | 6.71 | 0.13 | 6.84 | ≤23.96 ≤30.00 | PASS |
| | | 5785 | 6.89 | 0.13 | 7.05 | <u>≤30.00</u> ≤30.00 | PASS |
| | | 5825 | | 0.18 | | | PASS |
| | | | 6.09 | | 6.22 | ≤30.00 | |
| | | 5190 | 8.02 | 0.26 | 8.28 | ≤23.98 | PASS |
| | | 5230 | 7.56 | 0.33 | 7.89 | ≤23.98 | PASS |
| | | 5270 | 7.45 | 0.33 | 7.78 | ≤23.98 | PASS |
| 11N40SIS | A | 5310 | 7.10 | 0.26 | 7.36 | ≤23.98 | PASS |
| 0 | Ant1 | 5510 | 4.20 | 0.26 | 4.46 | ≤23.98 | PASS |
| | | 5550 | 4.29 | 0.26 | 4.55 | ≤23.98 | PASS |
| | | 5670 | 4.98 | 0.26 | 5.24 | ≤23.98 | PASS |
| | | 5755 | 6.80 | 0.33 | 7.13 | ≤30.00 | PASS |
| | | 5795 | 6.92 | 0.26 | 7.18 | ≤30.00 | PASS |
| | | 5180 | 7.82 | 0.16 | 7.98 | ≤23.98 | PASS |
| | | 5220 | 7.37 | 0.16 | 7.53 | ≤23.98 | PASS |
| | | 5240 | 7.63 | 0.16 | 7.79 | ≤23.98 | PASS |
| | | 5260 | 7.57 | 0.13 | 7.70 | ≤23.98 | PASS |
| | | 5300 | 7.21 | 0.13 | 7.34 | ≤23.98 | PASS |
| 11AC20SI | Ant1 | 5320 | 7.11 | 0.13 | 7.24 | ≤23.98 | PASS |
| SO | | 5500 | 4.41 | 0.13 | 4.54 | ≤23.98 | PASS |
| | | 5580 | 4.69 | 0.13 | 4.82 | ≤23.98 | PASS |
| | | 5700 | 5.06 | 0.13 | 5.19 | ≤23.98 | PASS |
| | | 5745 | 6.88 | 0.16 | 7.04 | ≤30.00 | PASS |
| | | 5785 | 7.07 | 0.13 | 7.20 | ≤30.00 | PASS |
| | | 5825 | 6.39 | 0.13 | 6.52 | ≤30.00 | PASS |
| | | 5190 | 7.83 | 0.32 | 8.15 | ≤23.98 | PASS |
| | - | 5230 | 7.60 | 0.26 | 7.86 | ≤23.98 | PASS |
| | | 5270 | 7.42 | 0.32 | 7.74 | ≤23.98 | PASS |
| 11AC40SI | | 5310 | 7.24 | 0.32 | 7.56 | ≤23.98 | PASS |
| SO | Ant1 | 5510 | 4.28 | 0.32 | 4.60 | ≤23.98 | PASS |
| | | 5550 | 4.34 | 0.26 | 4.60 | ≤23.98 | PASS |
| | | 5670 | 5.04 | 0.26 | 5.30 | ≤23.98 | PASS |
| | | 5755 | 6.83 | 0.32 | 7.15 | ≤30.00 | PASS |
| | - | 5795 | 6.91 | 0.26 | 7.17 | ≤30.00 | PASS |
| | | | | | | ≤23.98 | PASS |
| | | 5210 | 7.63 | 0.63 | 8.26 | | |
| 11AC80SI | Ant1 | 5290 | 7.18 | 0.63 | 7.81 | ≤23.98 | PASS |
| 11AC80SI SO | Ant1 | | | | | | |

10.4. Test Result

| 5775 6.84 | 0.63 | 7.47 | ≤30.00 | PASS |
|-----------|------|------|--------|------|
|-----------|------|------|--------|------|

11. Power Spectral Density

11.1. Block diagram of test setup

Same as section 8.1

11.2. Limits

| CFR 47 FCC Part15, Subpart E | | | | | |
|------------------------------|---|-----------------------------|--|--|--|
| Test Item | Limit | Frequency Range (MHz) | | | |
| Power Spectral Density | Outdoor Access Point: 17 dBm/MHz Indoor Access Point: 17 dBm/MHz Fixed Point-To-Point Access Points: 17 dBm/MHz Client Devices: 11 dBm/MHz | 5150-5250 | | | |
| | 11 dBm/MHz | 5250-5350 5470-5725 | | | |
| | 30 dBm/500 kHz | 5725-5850 | | | |

Transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in db that the directional gain of the antenna exceeds 6 dBi.

11.3. Test Procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

| Center Frequency | The centre frequency of the channel under test |
|------------------|--|
| Detector | RMS |
| RBW | 1MHz |
| VBW | ≥3 × RBW |
| Span | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace | Max hold |
| Sweep time | Auto |

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

5725 MHz-5850 MHz

| Center Frequency | The centre frequency of the channel under test |
|------------------|--|
| Detector | RMS |
| RBW | 500 kHz |
| VBW | ≥3 × RBW |
| Span | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace | Max hold |
| Sweep time | Auto |

Note:

1. For UNII-3, according to KDB publication 789033 D02 General U-NII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.

2. The value measured with RBW=1MHz is to be added with 10log(500kHz/1MHz) which is - 3dB. For example, if the measured value is +30 dBm using RBW=500kHz (that is +30 dBm/500kHz), then the converted value will be +33 dBm/1MHz.

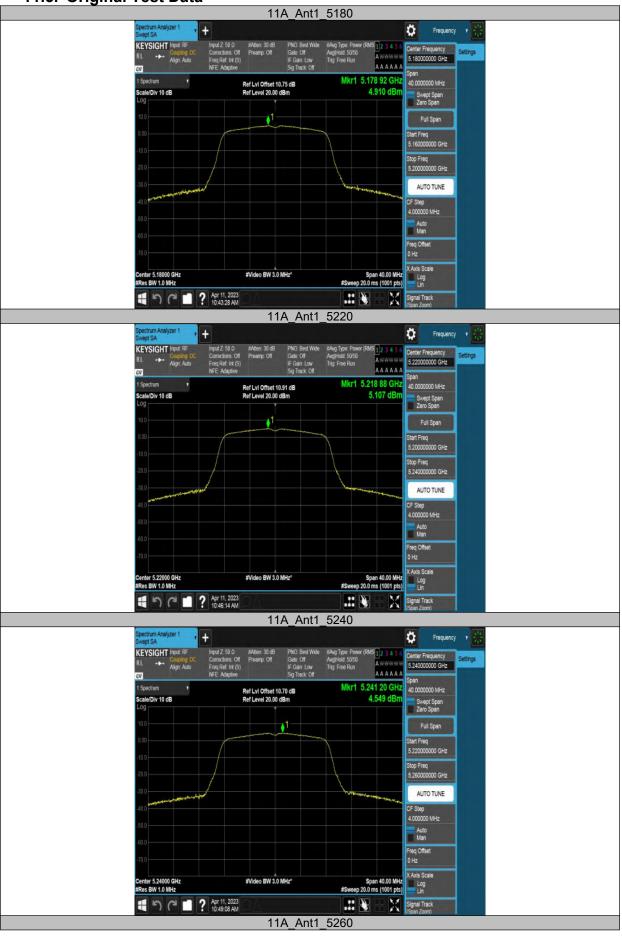
3. Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

| Test Mode | Ant. | Freq. (MHz) | Result (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|--------------|-------|----------------|---------------------|--------------------|---------|
| | | 5180 | 4.91 | ≤11.00 | PASS |
| | | 5220 | 5.11 | ≤11.00 | PASS |
| | | 5240 | 4.55 | ≤11.00 | PASS |
| | | 5260 | 4.83 | ≤11.00 | PASS |
| | | 5300 | 5.16 | ≤11.00 | PASS |
| 11A | A pt1 | 5320 | 4.94 | ≤11.00 | PASS |
| I IA | Ant1 | 5500 | 3.82 | ≤11.00 | PASS |
| | | 5580 | 3.52 | ≤11.00 | PASS |
| | | 5700 | 3.79 | ≤11.00 | PASS |
| | | 5745 | 2.3 | ≤30.00 | PASS |
| | | 5785 | 1.51 | ≤30.00 | PASS |
| | | 5825 | 1.11 | ≤30.00 | PASS |
| 11N20SISO | | 5180 | 3.08 | ≤11.00 | PASS |
| | | 5220 | 4.94 | ≤11.00 | PASS |
| | | 5240 | 4.36 | ≤11.00 | PASS |
| | | 5260 | 4.43 | ≤11.00 | PASS |
| | | 5300 | 4.56 | ≤11.00 | PASS |
| | | 5320 | 3.55 | ≤11.00 | PASS |

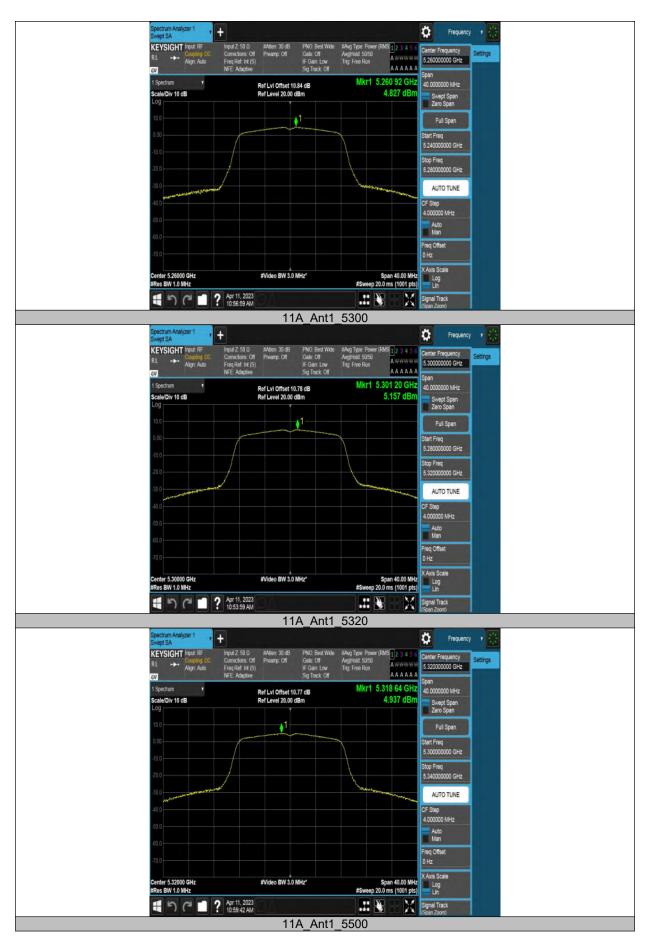
11.4. Test Result

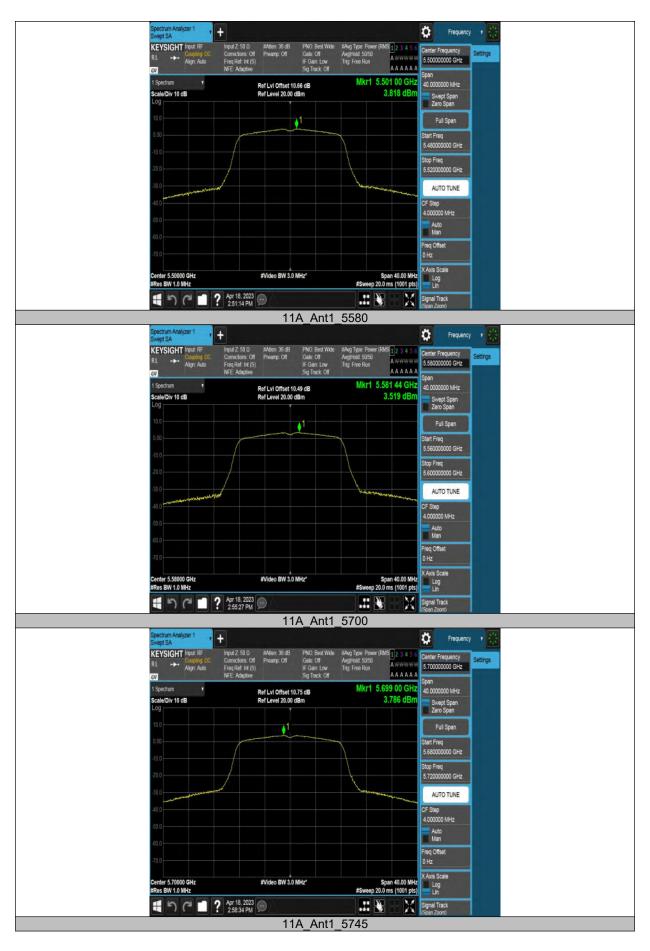
| | | 5500 | 3.45 | ≤11.00 | PASS |
|------------|------|------|-------|--------|------|
| | | 5580 | 3.37 | ≤11.00 | PASS |
| | | 5700 | 3.54 | ≤11.00 | PASS |
| | | 5745 | 0.99 | ≤30.00 | PASS |
| | | 5785 | 0.14 | ≤30.00 | PASS |
| | | 5825 | 0.22 | ≤30.00 | PASS |
| | | 5190 | -0.99 | ≤11.00 | PASS |
| | | 5230 | 0.82 | ≤11.00 | PASS |
| | | 5270 | 1.18 | ≤11.00 | PASS |
| | | 5310 | -1.59 | ≤11.00 | PASS |
| 11N40SISO | Ant1 | 5510 | 0.76 | ≤11.00 | PASS |
| | | 5550 | 0.8 | ≤11.00 | PASS |
| | | 5670 | 0.37 | ≤11.00 | PASS |
| | | 5755 | -1.54 | ≤30.00 | PASS |
| | | 5795 | -2.48 | ≤30.00 | PASS |
| | | 5180 | 2.23 | ≤11.00 | PASS |
| | | 5220 | 4.95 | ≤11.00 | PASS |
| | | 5240 | 4.58 | ≤11.00 | PASS |
| | Ant1 | 5260 | 5.21 | ≤11.00 | PASS |
| | | 5300 | 5.17 | ≤11.00 | PASS |
| 11AC20SISO | | 5320 | 4.86 | ≤11.00 | PASS |
| TIAC205150 | | 5500 | 3.27 | ≤11.00 | PASS |
| | | 5580 | 3.31 | ≤11.00 | PASS |
| | | 5700 | 3.58 | ≤11.00 | PASS |
| | | 5745 | 2.42 | ≤30.00 | PASS |
| | | 5785 | 1.59 | ≤30.00 | PASS |
| | | 5825 | 0.93 | ≤30.00 | PASS |
| | | 5190 | -2.15 | ≤11.00 | PASS |
| | Ant1 | 5230 | 1.54 | ≤11.00 | PASS |
| | | 5270 | 2.05 | ≤11.00 | PASS |
| | | 5310 | 0.03 | ≤11.00 | PASS |
| 11AC40SISO | | 5510 | 0.01 | ≤11.00 | PASS |
| | | 5550 | 0.77 | ≤11.00 | PASS |
| | | 5670 | 0.44 | ≤11.00 | PASS |
| | | 5755 | -0.84 | ≤30.00 | PASS |
| | | 5795 | -0.85 | ≤30.00 | PASS |
| | | 5210 | -6.17 | ≤11.00 | PASS |
| | | 5290 | -4.97 | ≤11.00 | PASS |
| 11AC80SISO | Ant1 | 5530 | -4.75 | ≤11.00 | PASS |
| | | 5610 | -1.31 | ≤11.00 | PASS |
| | | 5775 | -3.5 | ≤30.00 | PASS |

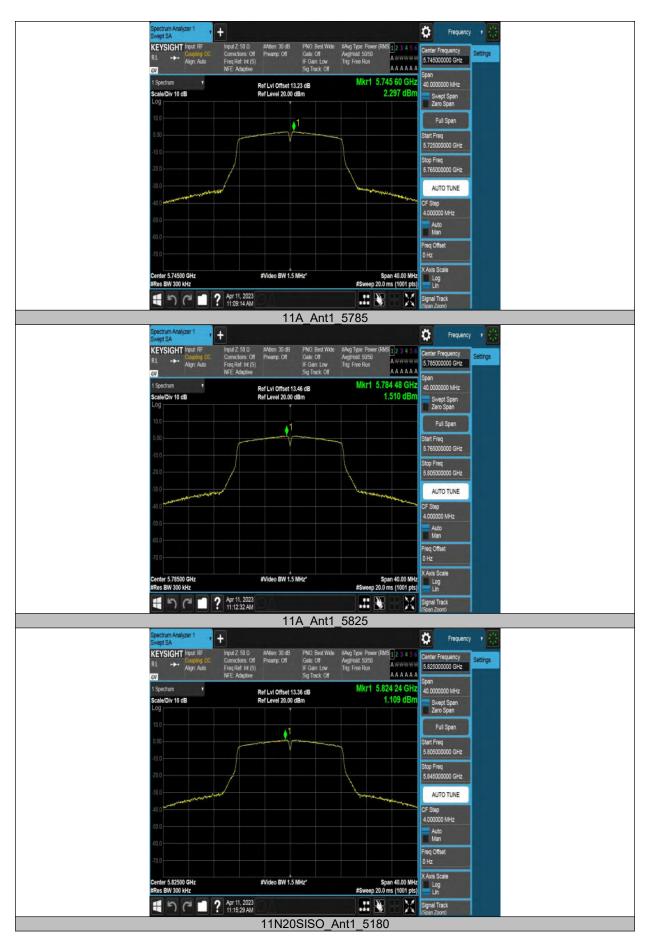
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz. 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

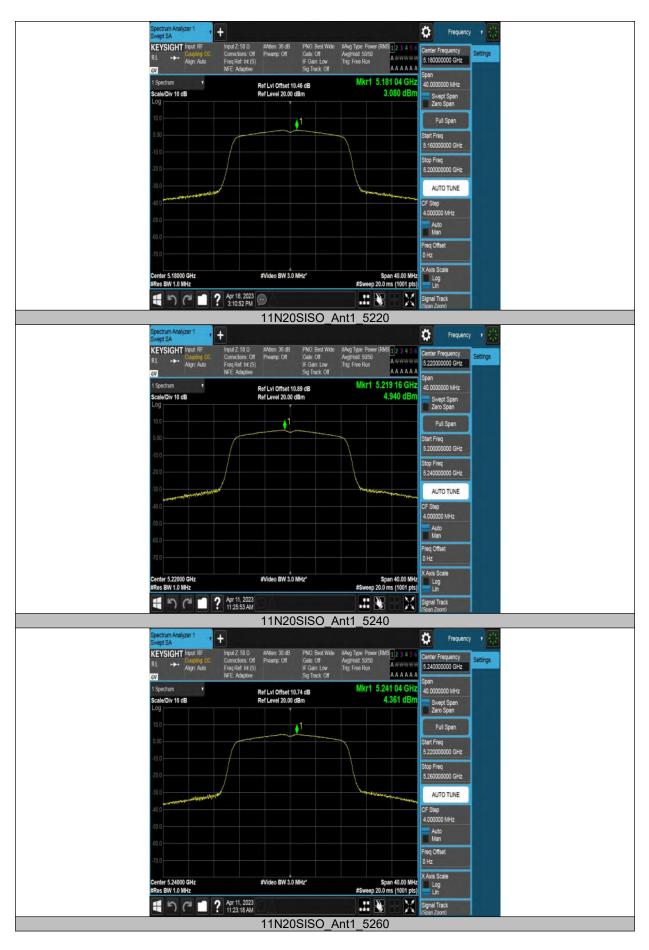


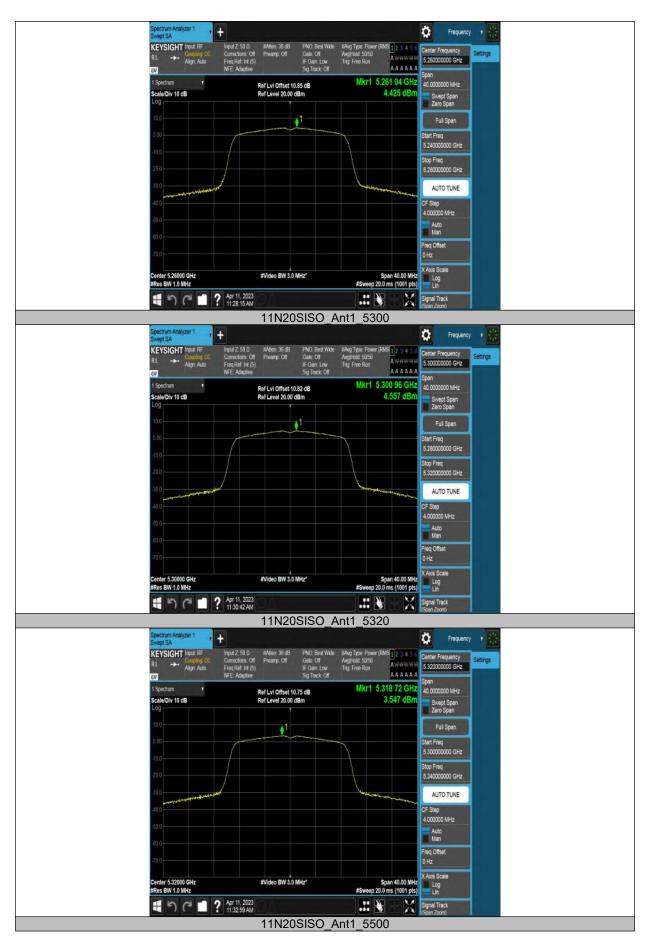
11.5. Original Test Data









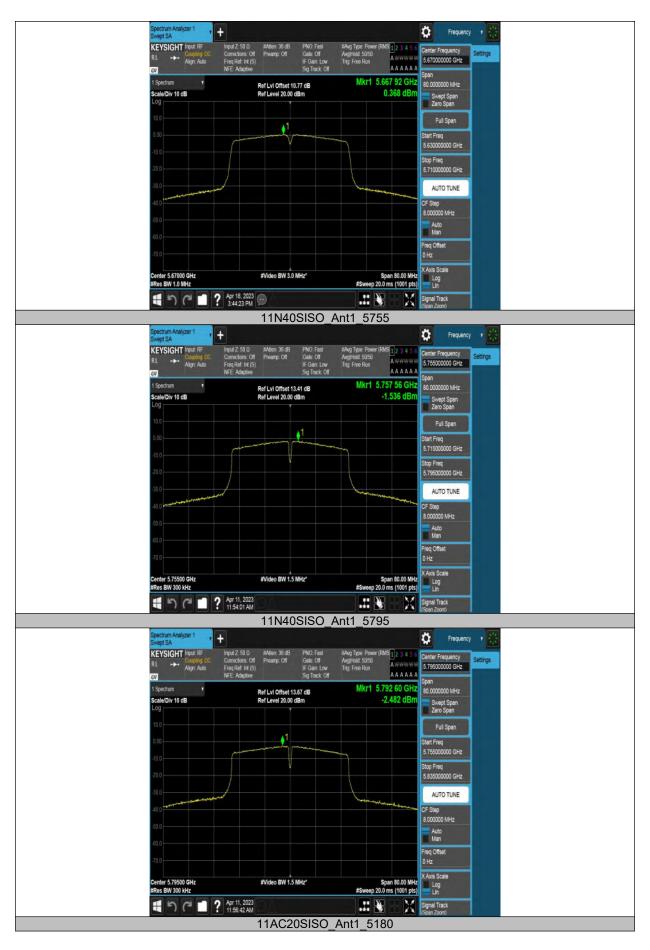


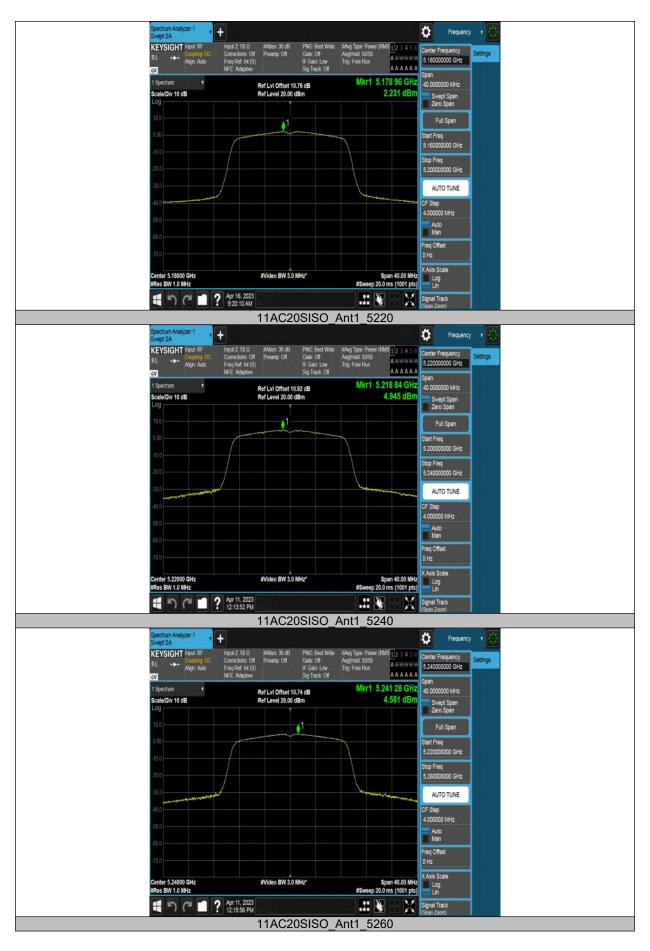
















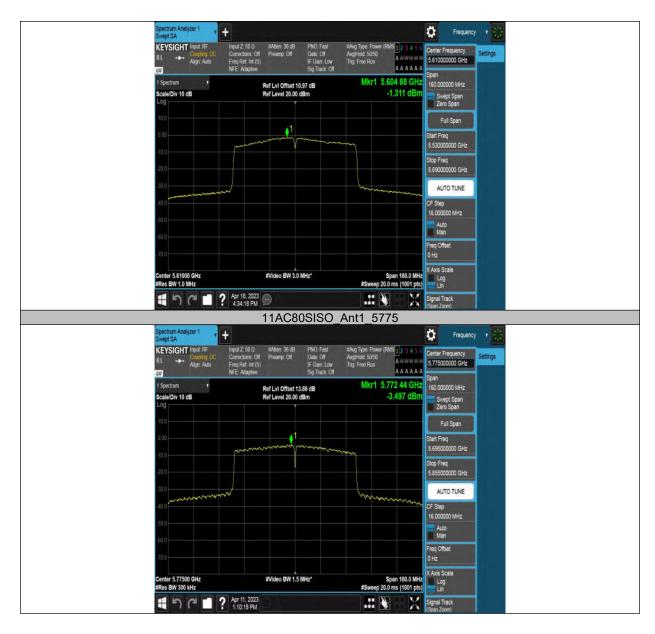












12. Frequency Stability Measurement

12.1. Block diagram of test setup

Same as section 8.1

12.2. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

12.3. Test procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.

(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

| 12.4. | Voltage | | | | | | | |
|--------------|---------|----------------|------------------|------------------------|-------------------|--------------------|----------------|---------|
| | | | | _ | | | | |
| Test Mode | Ant. | Freq. (MHz) | Voltage (Vdc) | Temper ature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | | NV | NT | -3000.00 | -0.579151 | 20 | PASS |
| | | 5180 | LV | NT | -3000.00 | -0.579151 | 20 | PASS |
| | | | HV | NT | -3000.00 | -0.579151 | 20 | PASS |
| | | | NV | NT | -3000.00 | -0.574713 | 20 | PASS |
| | | 5220 | LV | NT | -3000.00 | -0.574713 | 20 | PASS |
| | | | HV | NT | -3000.00 | -0.574713 | 20 | PASS |
| | | | NV | NT | -3000.00 | -0.572519 | 20 | PASS |
| | | 5240 | LV | NT | -3000.00 | -0.572519 | 20 | PASS |
| | | | HV | NT | -3000.00 | -0.572519 | 20 | PASS |
| | | | NV | NT | -3000.00 | -0.570342 | 20 | PASS |
| | | 5260 | LV | NT | -3000.00 | -0.570342 | 20 | PASS |
| | | | HV | NT | -3000.00 | -0.570342 | 20 | PASS |
| | | 5300 | NV | NT | -3000.00 | -0.566038 | 20 | PASS |
| | | | LV | NT | -3000.00 | -0.566038 | 20 | PASS |
| | | | HV | NT | -3000.00 | -0.566038 | 20 | PASS |
| 11AC20 | | | NV | NT | -3000.00 | -0.563910 | 20 | PASS |
| SISO | Ant1 | 5320 | LV | NT | -3000.00 | -0.563910 | 20 | PASS |
| 3130 | | | HV | NT | -4000.00 | -0.751880 | 20 | PASS |
| | | | NV | NT | -3000.00 | -0.545455 | 20 | PASS |
| | | 5500 | LV | NT | -3000.00 | -0.545455 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.727273 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.716846 | 20 | PASS |
| | | 5580 | LV | NT | -4000.00 | -0.716846 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.716846 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.701754 | 20 | PASS |
| | 5700 | 5700 | LV | NT | -4000.00 | -0.701754 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.701754 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.696258 | 20 | PASS |
| | | 5745 | LV | NT | -4000.00 | -0.696258 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.696258 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.691443 | 20 | PASS |
| | | 5785 | LV | NT | -4000.00 | -0.691443 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.691443 | 20 | PASS |

12.4. Test Result

| | | | | NT | 4000.00 | 0.606605 | 20 | |
|---------------------|------|-------|----------|----------|----------------------|------------------------|----------|--------------|
| | | 5825 | NV LV | NT NT | -4000.00 -5000.00 | -0.686695 -0.858369 | 20 20 | PASS PASS |
| | | 5825 | HV | NT | -4000.00 | -0.686695 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.770713 | 20 | PASS |
| | | 5190 | LV | NT | -4000.00 | -0.770713 | 20 | PASS |
| | | 5190 | LV HV | NT | | | 20 | PASS |
| | - | | | | -4000.00 | -0.770713 | | |
| | | 5000 | NV | NT | -4000.00 | -0.764818 | 20 | PASS |
| | | 5230 | LV | NT | -4000.00 | -0.764818 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.764818 | 20 | PASS |
| | | 5070 | NV | NT | -4000.00 | -0.759013 | 20 | PASS |
| | | 5270 | LV | NT | -4000.00 | -0.759013 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.759013 | 20 | PASS |
| | | 50.40 | NV | NT | -4000.00 | -0.753296 | 20 | PASS |
| | | 5310 | LV | NT | -4000.00 | -0.753296 | 20 | PASS |
| | | | HV | NT | -3000.00 | -0.564972 | 20 | PASS |
| 11AC40 | | | NV | NT | -4000.00 | -0.725953 | 20 | PASS |
| SISO | Ant1 | 5510 | LV | NT | -4000.00 | -0.725953 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.725953 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.720721 | 20 | PASS |
| | | 5550 | LV | NT | -4000.00 | -0.720721 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.720721 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.705467 | 20 | PASS |
| | | 5670 | LV | NT | -4000.00 | -0.705467 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.705467 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.695048 | 20 | PASS |
| | | 5755 | LV | NT | -4000.00 | -0.695048 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.695048 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.690250 | 20 | PASS |
| | | 5795 | LV | NT | -4000.00 | -0.690250 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.690250 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.767754 | 20 | PASS |
| | | 5210 | LV | NT | -4000.00 | -0.767754 | 20 | PASS |
| | | | ΗV | NT | -4000.00 | -0.767754 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.756144 | 20 | PASS |
| | | 5290 | LV | NT | -4000.00 | -0.756144 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.756144 | 20 | PASS |
| 110000 | | | NV | NT | -4000.00 | -0.723327 | 20 | PASS |
| 11AC80 SISO Ant1 | Ant1 | 5530 | LV | NT | -4000.00 | -0.723327 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.723327 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.713012 | 20 | PASS |
| | | 5610 | LV | NT | -4000.00 | -0.713012 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.713012 | 20 | PASS |
| | | | NV | NT | -4000.00 | -0.692641 | 20 | PASS |
| | | 5775 | LV | NT | -4000.00 | -0.692641 | 20 | PASS |
| | | | HV | NT | -4000.00 | -0.692641 | 20 | PASS |

| | | | | Temperat | ure | | | |
|----------------|------|----------------|------------------|------------------------|-------------------|--------------------|----------------|---------|
| Test Mode | Ant. | Freq. (MHz) | Voltage (Vdc) | Temper ature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| | | | NV | -30 | -3000.00 | -0.579151 | 20 | PASS |
| | | | NV | -20 | -3000.00 | -0.579151 | 20 | PASS |
| | | 5180 | NV | -10 | -3000.00 | -0.579151 | 20 | PASS |
| | | | NV | 0 | -3000.00 | -0.579151 | 20 | PASS |
| 110000 | | | NV | 10 | -3000.00 | -0.579151 | 20 | PASS |
| 11AC20 SISO | Ant1 | | NV | 20 | -3000.00 | -0.579151 | 20 | PASS |
| 3130 | | | NV | 30 | -3000.00 | -0.579151 | 20 | PASS |
| | | | NV | 40 | -3000.00 | -0.579151 | 20 | PASS |
| | | NV | 50 | -3000.00 | -0.579151 | 20 | PASS | |
| | | 5220 | NV | -30 | -3000.00 | -0.574713 | 20 | PASS |
| | | 5220 | NV | -20 | -3000.00 | -0.574713 | 20 | PASS |

| | | NV | -10 | -3000.00 | -0.574713 | 20 | PASS |
|--|------|----------|-----|----------|-----------|----|------|
| | | NV | 0 | -3000.00 | -0.574713 | 20 | PASS |
| | | NV | 10 | -3000.00 | -0.574713 | 20 | PASS |
| | | NV | 20 | -3000.00 | -0.574713 | 20 | PASS |
| | | NV | 30 | -3000.00 | -0.574713 | 20 | PASS |
| | | NV | 40 | -3000.00 | -0.574713 | 20 | PASS |
| | | NV | 50 | -3000.00 | -0.574713 | 20 | PASS |
| | | NV | -30 | -3000.00 | -0.572519 | 20 | PASS |
| | | NV | -20 | -3000.00 | -0.572519 | 20 | PASS |
| | | NV | -10 | -3000.00 | -0.572519 | 20 | PASS |
| | | NV | 0 | -3000.00 | -0.572519 | 20 | PASS |
| | 5240 | NV | 10 | -4000.00 | -0.763359 | 20 | PASS |
| | 02.0 | NV | 20 | -3000.00 | -0.572519 | 20 | PASS |
| | | NV | 30 | -3000.00 | -0.572519 | 20 | PASS |
| | | NV | 40 | -3000.00 | -0.572519 | 20 | PASS |
| | | NV | 50 | -3000.00 | -0.572519 | 20 | PASS |
| | | NV | -30 | -3000.00 | -0.570342 | 20 | PASS |
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| | 5260 | NV | 10 | -3000.00 | -0.760456 | 20 | PASS |
| | 5200 | | | | | | |
| | | NV | 20 | -3000.00 | -0.570342 | 20 | PASS |
| | | NV NV | 30 | -3000.00 | -0.570342 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.760456 | 20 | PASS |
| | | NV | 50 | -3000.00 | -0.570342 | 20 | PASS |
| | | NV | -30 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | -20 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | -10 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | 0 | -3000.00 | -0.566038 | 20 | PASS |
| | 5300 | NV | 10 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | 20 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | 30 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | 40 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | 50 | -3000.00 | -0.566038 | 20 | PASS |
| | | NV | -30 | -3000.00 | -0.563910 | 20 | PASS |
| | | NV | -20 | -3000.00 | -0.563910 | 20 | PASS |
| | | NV | -10 | -3000.00 | -0.563910 | 20 | PASS |
| | | NV | 0 | -3000.00 | -0.563910 | 20 | PASS |
| | 5320 | NV | 10 | -3000.00 | -0.563910 | 20 | PASS |
| | | NV | 20 | -3000.00 | -0.563910 | 20 | PASS |
| | | NV | 30 | -3000.00 | -0.563910 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.751880 | 20 | PASS |
| | | NV | 50 | -4000.00 | -0.751880 | 20 | PASS |
| | | NV | -30 | -3000.00 | -0.545455 | 20 | PASS |
| | | NV | -20 | -3000.00 | -0.545455 | 20 | PASS |
| | | NV | -10 | -3000.00 | -0.545455 | 20 | PASS |
| | 5500 | NV | 0 | -3000.00 | -0.545455 | 20 | PASS |
| | | NV | 10 | -4000.00 | -0.727273 | 20 | PASS |
| | | NV | 20 | -3000.00 | -0.545455 | 20 | PASS |
| | | NV | 30 | -3000.00 | -0.545455 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.727273 | 20 | PASS |
| | | NV | 50 | -3000.00 | -0.545455 | 20 | PASS |
| | | NV | -30 | -4000.00 | -0.716846 | 20 | PASS |
| | | NV | -20 | -4000.00 | -0.716846 | 20 | PASS |
| | | NV | -20 | -4000.00 | -0.716846 | 20 | PASS |
| | | | | | | | |
| | EE00 | NV NV | 0 | -4000.00 | -0.716846 | 20 | PASS |
| | 5580 | NV | 10 | -4000.00 | -0.716846 | 20 | PASS |
| | | NV | 20 | -3000.00 | -0.537634 | 20 | PASS |
| | | NV NV | 30 | -3000.00 | -0.537634 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.716846 | 20 | PASS |
| | | NV | 50 | -4000.00 | -0.716846 | 20 | PASS |

| | | | NIV/ | -30 | -4000.00 | -0.701754 | 20 | PASS |
|--------|------|--------------|---|----------|----------|------------------------|----------|--------------|
| | | | | -20 | -4000.00 | -0.701754 | 20 | PASS |
| | | | | -10 | -4000.00 | -0.701754 | 20 | PASS |
| | | | | 0 | -4000.00 | -0.701754 | 20 | PASS |
| | | 5700 | NV | 10 | -4000.00 | -0.701754 | 20 | PASS |
| | | | NV | 20 | -4000.00 | -0.701754 | 20 | PASS |
| | | | NV | 30 | -4000.00 | -0.701754 | 20 | PASS |
| | | | NV <td>40</td> <td>-4000.00</td> <td>-0.701754</td> <td>20</td> <td>PASS</td> | 40 | -4000.00 | -0.701754 | 20 | PASS |
| | | | NV | 50 | -4000.00 | -0.701754 | 20 | PASS |
| | | | NV | -30 | -4000.00 | -0.696258 | 20 | PASS |
| | | | NV | -20 | -4000.00 | -0.696258 | 20 | PASS |
| | | | NV | -10 | -4000.00 | -0.696258 | 20 | PASS |
| | | | - | 0 | -4000.00 | -0.696258 | 20 | PASS |
| | | 5745 | - | 10 | -4000.00 | -0.696258 | 20 | PASS |
| | | | - | 20 | -4000.00 | -0.696258 | 20 | PASS |
| | | | - | 30 | -4000.00 | -0.696258 | 20 | PASS |
| | | | - | 40 | -4000.00 | -0.696258 | 20 | PASS |
| | | | | 50 | -4000.00 | -0.696258 | 20 | PASS |
| | | | - | -30 | -4000.00 | -0.691443 | 20 | PASS |
| | | | - | -20 | -4000.00 | -0.691443 | 20 | PASS |
| | | | - | -10 | -4000.00 | -0.691443 | 20 | PASS |
| | | 570 <i>5</i> | - | 0 | -4000.00 | -0.691443 | 20 | PASS |
| | | 5765 | - | 10 | -4000.00 | -0.691443 | 20 | PASS PASS |
| | | | | 20 30 | -4000.00 | -0.691443 -0.691443 | 20 20 | PASS |
| | | | - | 40 | -4000.00 | -0.691443 | 20 | PASS |
| | | | - | 50 | -4000.00 | -0.691443 | 20 | PASS |
| | - | | - | -30 | -5000.00 | -0.858369 | 20 | PASS |
| | | | - | -20 | -5000.00 | -0.858369 | 20 | PASS |
| | | | - | -10 | -4000.00 | | 20 | PASS |
| | | | - | 0 | -4000.00 | -0.686695 | 20 | PASS |
| | | 5825 | - | 10 | -4000.00 | -0.686695 | 20 | PASS |
| | | | - | 20 | -4000.00 | -0.686695 | 20 | PASS |
| | | | NV | 30 | -4000.00 | -0.686695 | 20 | PASS |
| | | | NV | 40 | -4000.00 | -0.686695 | 20 | PASS |
| | | | NV | 50 | -4000.00 | -0.686695 | 20 | PASS |
| | | | NV | -30 | -4000.00 | -0.770713 | 20 | PASS |
| | | | - | -20 | -4000.00 | -0.770713 | 20 | PASS |
| | | | - | -10 | -4000.00 | -0.770713 | 20 | PASS |
| | | = 1 0 0 | - | 0 | -4000.00 | -0.770713 | 20 | PASS |
| | | 5190 | - | 10 | -4000.00 | -0.770713 | 20 | PASS |
| | | | - | 20 | -4000.00 | -0.770713 | 20 | PASS |
| | | | - | 30 | -4000.00 | -0.770713 | 20 | PASS |
| | | | - | 40 50 | -4000.00 | -0.770713 -0.770713 | 20 20 | PASS PASS |
| | | | | -30 | -4000.00 | -0.764818 | 20 | PASS |
| | | | - | -20 | -4000.00 | -0.764818 | 20 | PASS |
| | | | - | -20 | -4000.00 | -0.764818 | 20 | PASS |
| 11AC40 | Ant1 | | - | 0 | -4000.00 | -0.764818 | 20 | PASS |
| SISO | | 5230 | NV | 10 | -4000.00 | -0.764818 | 20 | PASS |
| | | 2200 | NV | 20 | -4000.00 | -0.764818 | 20 | PASS |
| | | | NV | 30 | -4000.00 | -0.764818 | 20 | PASS |
| | | | NV | 40 | -4000.00 | -0.764818 | 20 | PASS |
| | | | NV | 50 | -4000.00 | -0.764818 | 20 | PASS |
| | | | NV | -30 | -4000.00 | -0.759013 | 20 | PASS |
| | | | NV | -20 | -4000.00 | -0.759013 | 20 | PASS |
| | | | NV | -10 | -4000.00 | -0.759013 | 20 | PASS |
| | | 5270 | NV | 0 | -4000.00 | -0.759013 | 20 | PASS |
| | | | NV | 10 | -3000.00 | -0.569260 | 20 | PASS |
| | | | NV | 20 | -4000.00 | -0.759013 | 20 | PASS |
| | | | NV | 30 | -4000.00 | -0.759013 | 20 | PASS |

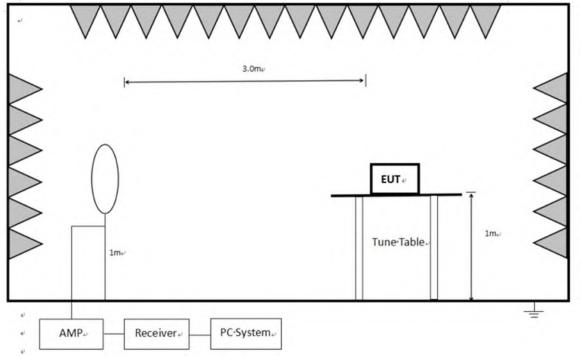
| NV 50 -300.00 -0.569260 20 PASS NV -30 -4000.00 -0.753296 20 PASS NV -10 -4000.00 -0.753296 20 PASS NV -10 -4000.00 -0.753296 20 PASS NV 0 -4000.00 -0.753296 20 PASS NV 10 -4000.00 -0.753296 20 PASS NV 30 -3000.00 -0.753296 20 PASS NV 30 -4000.00 -0.753296 20 PASS NV -30 -4000.00 -0.753296 20 PASS NV -30 -4000.00 -0.758953 20 PASS NV -20 -4000.00 -0.725953 20 PASS NV 20 -4000.00 -0.725953 20 PASS NV 20 -4000.00 -0.725953 20 PASS NV < | | | | NV | 40 | -4000.00 | -0.759013 | 20 | PASS |
|---|------|------|------|----|-----|----------|-----------|----|------|
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| 5310 NV -20 -4000.00 -0.753296 20 PASS NV 10 -4000.00 -0.753296 20 PASS NV 10 -4000.00 -0.753296 20 PASS NV 20 -4000.00 -0.753296 20 PASS NV 20 -4000.00 -0.753296 20 PASS NV 400.00 -0.753296 20 PASS NV 4000.00 -0.753296 20 PASS NV 30 -4000.00 -0.725953 20 PASS NV -10 -4000.00 -0.725953 20 PASS NV 10 -4000.00 -0.725953 20 PASS NV 30 -4000.00 -0.725953 20 PASS NV 30 -4000.00 -0.72721 20 PASS NV 30 -4000.00 -0.72721 20 PASS NV 30 -4 | | | | | | | | | |
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| NV 50 4000.00 -0.753286 20 PASS NV -30 4000.00 -0.725953 20 PASS NV -20 -400.00 -0.725953 20 PASS NV -10 -3000.00 -0.725953 20 PASS NV 0 -4000.00 -0.725953 20 PASS NV 20 -4000.00 -0.725953 20 PASS NV 20 -4000.00 -0.725953 20 PASS NV 30 -4000.00 -0.725953 20 PASS NV -30 -4000.00 -0.72071 20 PASS NV -10 -4000.00 -0.720721 20 PASS NV -10 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.720721 20 PASS NV | | | | | | -4000.00 | -0.753296 | | |
| NV -30 -4000.00 -0.725953 20 PASS NV -20 -4000.00 -0.725953 20 PASS NV -10 -3000.00 -0.725953 20 PASS NV 0 -4000.00 -0.725953 20 PASS NV 20 -4000.00 -0.725953 20 PASS NV 30 -4000.00 -0.725953 20 PASS NV 400 -0.725953 20 PASS NV -4000.00 -0.725953 20 PASS NV -4000.00 -0.72071 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV -10 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.702721 20 PASS NV 20 -4000.00 -0.705467 | | | | | - | | | | |
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| NV -10 -3000.00 -0.544465 20 PASS NV 0 -4000.00 -0.725953 20 PASS NV 10 -4000.00 -0.725953 20 PASS NV 20 -4000.00 -0.725953 20 PASS NV 30 -4000.00 -0.725953 20 PASS NV 50 -4000.00 -0.725953 20 PASS NV -30 -4000.00 -0.725953 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV 20 -4000.00 -0.720721 20 PASS NV <t< td=""><td></td><td></td><td></td><td>NV</td><td>-20</td><td>-4000.00</td><td>-0.725953</td><td>20</td><td>PASS</td></t<> | | | | NV | -20 | -4000.00 | -0.725953 | 20 | PASS |
| 5510 NV 10 -4000.00 -0.725953 20 PASS NV 30 -4000.00 -0.725953 20 PASS NV 30 -4000.00 -0.725953 20 PASS NV 40 -4000.00 -0.725953 20 PASS NV 50 -4000.00 -0.725953 20 PASS NV -30 -4000.00 -0.720721 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV -10 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV -30 -4000.00 -0.720721 20 PASS NV -30 -4000.00 -0.705467 20 PASS | | | | | | | -0.544465 | 20 | PASS |
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| NV 30 -4000.00 -0.725953 20 PASS NV 40 -4000.00 -0.725953 20 PASS NV 50 -4000.00 -0.725953 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.720721 20 PASS NV 20 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.705467 20 PASS NV -20 -4000.00 -0.705467 20 PASS NV -20 -4000.00 -0.705467 20 PASS NV < | | | 5510 | NV | 10 | -4000.00 | -0.725953 | 20 | PASS |
| NV 40 -4000.00 -0.725953 20 PASS NV 50 -4000.00 -0.725953 20 PASS NV -30 4000.00 -0.720721 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV -10 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.705467 20 PASS NV -20 -4000.00 -0.705467 20 PASS NV -10 -4000.00 -0.705467 20 PASS NV 10 -4000.00 -0.705467 20 PASS NV <td< td=""><td></td><td></td><td></td><td>NV</td><td>20</td><td>-4000.00</td><td>-0.725953</td><td>20</td><td>PASS</td></td<> | | | | NV | 20 | -4000.00 | -0.725953 | 20 | PASS |
| NV 50 -4000.00 -0.725963 20 PASS NV -30 -4000.00 -0.720721 20 PASS NV -10 -4000.00 -0.720721 20 PASS NV -10 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 20 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV -20 -4000.00 -0.720721 20 PASS NV -20 -4000.00 -0.705467 20 PASS NV -20 -4000.00 -0.705467 20 PASS NV 30 -4000.00 -0.705467 20 PASS NV < | | | | NV | 30 | -4000.00 | -0.725953 | 20 | PASS |
| Image: Second State State Second State State Second State State Second State State State State Second State St | | | | NV | 40 | -4000.00 | -0.725953 | 20 | PASS |
| | | | | NV | 50 | -4000.00 | -0.725953 | 20 | PASS |
| 5550 NV -10 -4000.00 -0.720721 20 PASS NV 0 -4000.00 -0.720721 20 PASS NV 10 -4000.00 -0.720721 20 PASS NV 20 -4000.00 -0.720721 20 PASS NV 30 -4000.00 -0.720721 20 PASS NV 40 -4000.00 -0.720721 20 PASS NV 50 -4000.00 -0.705467 20 PASS NV -30 -4000.00 -0.705467 20 PASS NV -10 -4000.00 -0.705467 20 PASS NV 10 -4000.00 -0.705467 20 PASS NV 10 -4000.00 -0.705467 20 PASS NV 30 -4000.00 -0.705467 20 PASS NV 30 -4000.00 -0.705467 20 PASS < | | | | NV | -30 | -4000.00 | -0.720721 | 20 | PASS |
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| | SISO | | | | | | | | |
| | | | | NV | 10 | -4000.00 | -0.767754 | 20 | PASS |

| | | NV | 20 | -4000.00 | -0.767754 | 20 | PASS |
|--|------|----|-----|----------|-----------|----|------|
| | | NV | 30 | -4000.00 | -0.767754 | 20 | PASS |
| | | NV | 40 | -3000.00 | -0.575816 | 20 | PASS |
| | | NV | 50 | -3000.00 | -0.575816 | 20 | PASS |
| | | NV | -30 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | -20 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | -10 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | 0 | -4000.00 | -0.756144 | 20 | PASS |
| | 5290 | NV | 10 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | 20 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | 30 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | 50 | -4000.00 | -0.756144 | 20 | PASS |
| | | NV | -30 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | -20 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | -10 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | 0 | -4000.00 | -0.723327 | 20 | PASS |
| | 5530 | NV | 10 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | 20 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | 30 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | 50 | -4000.00 | -0.723327 | 20 | PASS |
| | | NV | -30 | -4000.00 | -0.713012 | 20 | PASS |
| | | NV | -20 | -4000.00 | -0.713012 | 20 | PASS |
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| | | NV | 0 | -4000.00 | -0.713012 | 20 | PASS |
| | 5610 | NV | 10 | -4000.00 | -0.713012 | 20 | PASS |
| | | NV | 20 | -4000.00 | -0.713012 | 20 | PASS |
| | | NV | 30 | -4000.00 | -0.713012 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.713012 | 20 | PASS |
| | | NV | 50 | -4000.00 | -0.713012 | 20 | PASS |
| | | NV | -30 | -4000.00 | -0.692641 | 20 | PASS |
| | | NV | -20 | -4000.00 | -0.692641 | 20 | PASS |
| | | NV | -10 | -4000.00 | -0.692641 | 20 | PASS |
| | | NV | 0 | -4000.00 | -0.692641 | 20 | PASS |
| | 5775 | NV | 10 | -5000.00 | -0.865801 | 20 | PASS |
| | | NV | 20 | -5000.00 | -0.865801 | 20 | PASS |
| | | NV | 30 | -4000.00 | -0.692641 | 20 | PASS |
| | | NV | 40 | -4000.00 | -0.692641 | 20 | PASS |
| | | NV | 50 | -4000.00 | -0.692641 | 20 | PASS |

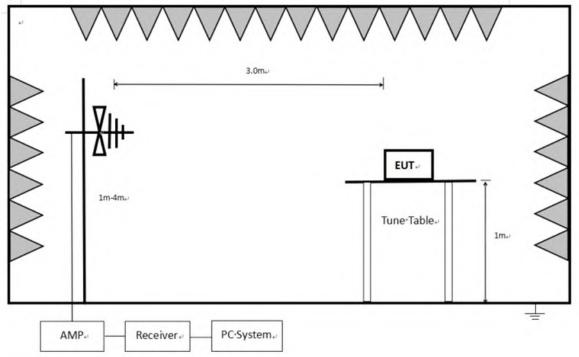
13. Radiated Emission

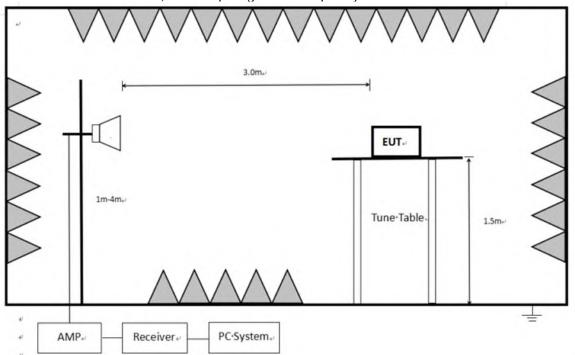
13.1. Block Diagram of Test Setup

In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:





In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:

Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

13.2. Limit

(1) FCC 15.205 Restricted frequency band

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.1772&4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.2072&4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

| FREQUENCY | DISTANCE | FIELD STRENG | THS LIMIT |
|---------------|----------|--------------------------------|---------------|
| MHz | Meters | μV/m | dB(µV)/m |
| 0.009 ~ 0.490 | 300 | 2400/F(kHz) | 67.6-20log(F) |
| 0.490 ~ 1.705 | 30 | 24000/F(kHz) | 87.6-20log(F) |
| 1.705 ~ 30.0 | 30 | 30 | 29.54 |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV)/ι 54.0 dB(μV)/m | |

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm / MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/ MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm / MHz.

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(6) The provisions of §15.205 apply to intentional radiators operating under this section.

-27 dBm/MHz Limit=95.2+EIRP (dBm)=95.2-27=68.2 dBµV/m

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

 $Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

13.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

| RBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
|-------|--|
| VBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| Sweep | Auto |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

| RBW | 120 kHz |
|-------|----------|
| VBW | 300 kHz |
| Sweep | Auto |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz:

| RBW | 1 MHz |
|----------|--------------------------------|
| VBW | PEAK: 3 MHz AVG: see note 6 |
| Sweep | Auto |
| Detector | Peak |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

7. Restriction band: Investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

13.4. Test Result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit. Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 11ac20 mode.

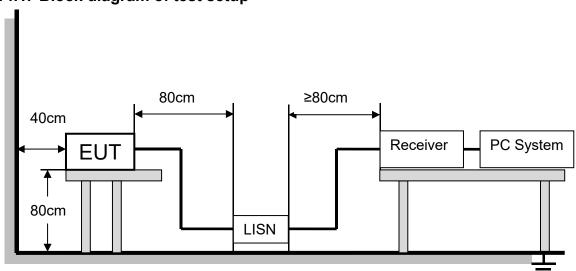
Note3: For below test data, when the limit tabular marked "/" means this frequency point is the fundamental emission and no need comply with this limit.

Note 4: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

Note 5: For emissions Above 1 GHz, all mode have been tested, 11ac20 mode of is worse case and recorded in report.

13.5. Original Test Data

Below 1 GHz and above 30 MHz test data Refer to appendix A Above 1 GHz test data Refer to appendix B



14. AC Power Line Conducted Emissions

14.1. Block diagram of test setup

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

14.2. Limits

Please refer to CFR 47 FCC §15.207 (a).

| Frequency (MHz) | Quasi-peak | Average |
|-----------------|------------|-----------|
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

14.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

14.5. Original test data

Refer to appendix C

15. Dynamic Frequency Selection

15.1. Applicability of DFS Requirements

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

| | Operational Mode | | | | |
|---------------------------------|------------------|------------------|--------------------|--|--|
| Requirement | □Master | I Client Without | □Client with Radar | | |
| | | Radar Detection | Detection | | |
| Non-Occupancy Period | Yes | Not required | Yes | | |
| DFS Detection Threshold | Yes | Not required | Yes | | |
| Channel Availability Check Time | Yes | Not required | Not required | | |
| U-NII Detection Bandwidth | Yes | Not required | Yes | | |

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Table 2: Applicability of DFS requirements during normal operation

| | Operational Mode | | | |
|--------------------------------------|-------------------------------|-----------------------|--|--|
| Requirement | □Master Device or Client with | ⊠Client Without Radar | | |
| | Radar Detection | Detection | | |
| DFS Detection Threshold | Yes | Not required | | |
| Channel Closing Transmission Time | Yes | Yes | | |
| Channel Move Time | Yes | Yes | | |
| U-NII Detection Bandwidth | Yes | Not required | | |

| Additional requirements for devices with multiple bandwidth modes | □Master Device or Client with Radar Detection | ⊠Client Without Radar Detection |
|---|--|---|
| U-NII Detection Bandwidth and Statistical Performance Check | All BW modes must be tested | Not required |
| Channel Move Time and Channel Closing Transmission Time | Test using widest BW mode available | Test using the widest BW mode available for the link |
| All other tests | Any single BW mode | Not required |

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

15.2. Limit

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

| Maximum Transmit Power | Value (See Notes 1, 2, and 3) | |
|---|-------------------------------|--|
| EIRP ≥ 200 milliwatt | -64 dBm | |
| EIRP < 200 milliwatt and | -62 dBm | |
| power spectral density < 10 dBm/MHz | -02 0011 | |
| EIRP < 200 milliwatt that do not meet the power | -64 dBm | |
| spectral density requirement | | |
| | | |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

| Parameter | Value | | | |
|------------------------------------|--|--|--|--|
| Non-occupancy period | Minimum 30 minutes | | | |
| Channel Availability Check Time | 60 seconds | | | |
| Channel Mayo Time | 10 seconds | | | |
| Channel Move Time | See Note 1. | | | |
| | 200 milliseconds + an aggregate of 60 milliseconds | | | |
| Channel Clearing Transmission Time | over | | | |
| Channel Closing Transmission Time | remaining 10 second period. | | | |
| | See Notes 1 and 2. | | | |
| U-NII Detection Bandwidth | Minimum 100% of the U-NII 99% transmission power | | | |
| | bandwidth. See Note 3. | | | |
| | | | | |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

15.3. Parameters of Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test

Waveforms

| Table 5 Short | Pulse | Radar | Test | Waveforms |
|---------------|-------|-------|------|-----------|
| | | | | |

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials | |
|--------------|-----------------------|---------------|--|--|--------------------------------|--|
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 | |
| | | Test A | $\left[\left(\underline{1}\right), \right]$ | | | |
| 1 | 1 | Test B | $\left \begin{array}{c} \text{Roundup} \\ \left[\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right] \end{array} \right $ | 60% | 30 | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 | |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 | |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 | |
| Aggregate (F | Radar Types 1-4 |) | | 80% | 120 | |

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

15.4. Calibration of Radar Waveform

Radar Waveform Calibration Procedure:

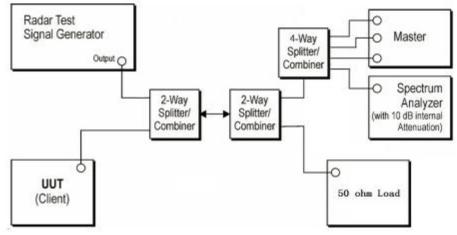
A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master

The interference Radar Detection Threshold Level is -62dBm + 0dBi +1dB = -61dBm that had been taken into account the output power range and antenna gain.

The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.

The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was - -62dBm + 0dBi +1dB = -61dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

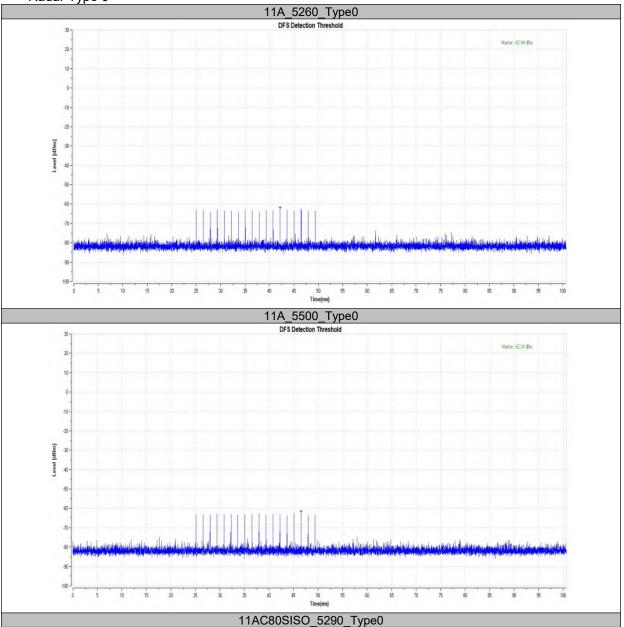
Conducted Calibration Setup:

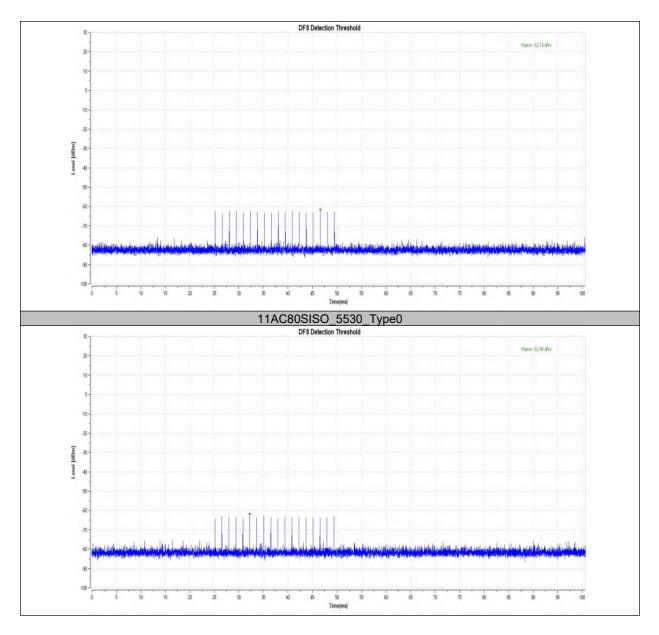


Note: 1. Use the software "Web" to set the frequency channel. 2. EUT is not support TPC and not with Radar detection.

Radar Waveform Calibration Result:







15.5. Channel Closing Transmission Time, Channel Move Time And Non-Occupancy Period

Block diagram of test setup Test Procedure:

The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Test Software in order to properly load the network for the entire period of the test.

When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

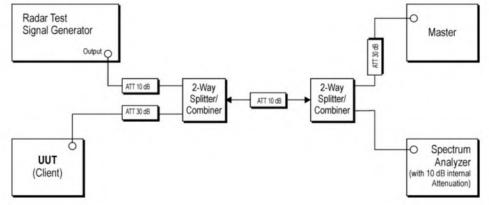
Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the

spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) = S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

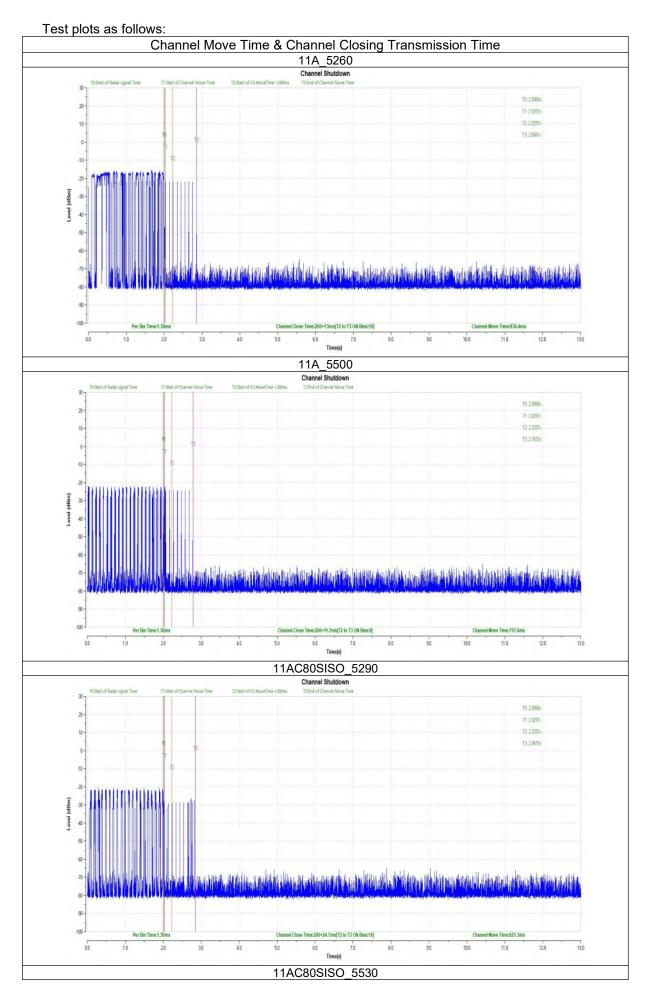
15.6. Test Setup

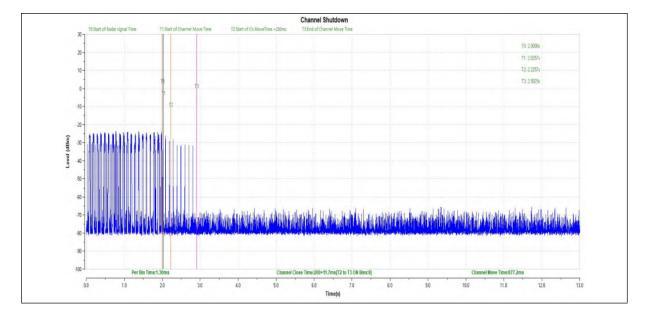
Setup for Client with injection at the Master



15.7. Test Result

| BW/Channel | Test Item | Test Result | Limit | Results |
|-------------|---|-------------|--------|---------|
| | Channel Move Time | 0.8304 | <10s | pass |
| 20M/5260MHz | Channel Closing Transmission Time | 0.2130 | <0.26s | pass |
| | Channel Move Time | 0.7576 | <10s | pass |
| 20M/5500MHz | Channel Closing Transmission Time | 0.2117 | <0.26s | pass |
| | Channel Move Time | 0.8213 | <10s | pass |
| 80M/5290MHz | Channel Closing Transmission Time | 0.2247 | <0.26s | pass |
| | Channel Move Time | 0.8772 | <10s | pass |
| 80M/5530MHz | Channel Closing Transmission Time | 0.2117 | <0.26s | pass |





16. Antenna Requirements

16.1. Applicable Requirements

Please refer 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. 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.

Please refer to FCC §15.247(b)(4)

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.

16.2. Result

The antennas both used for this product are dedicated FPC antennas and other than that furnished by the responsible party shall be used with the device, maximum antenna gain is -3.18 dBi for antenna.

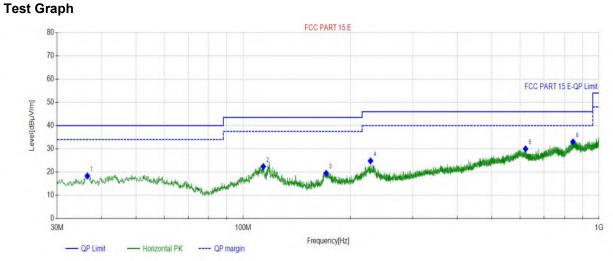
APPENDIX A - Radiated Emission Below 1GHz Test Data

| Project Information | | | | | |
|---------------------|-----------------|--------------|-----------|--|--|
| EUT: | ePaper | Environment: | 21.1℃ 47% | | |
| Model: | SN03 | SN: | | | |
| Mode: | 11AC20_5260 | Voltage: | DC5V 1.5A | | |
| Customer: | | Engineer: | Kennys | | |
| Remark: | Power Set: 19.5 | | | | |
| Test Standard: | | | | | |

Test Report

Test Standar

Start of Test: 2023-04-20 16:29:54

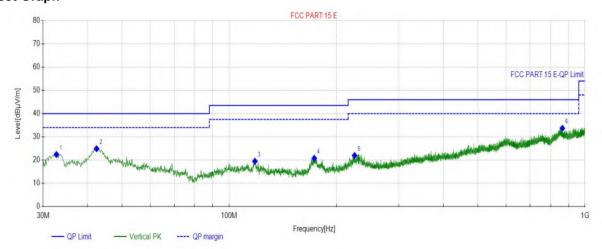


| Final | Final Data List | | | | | | | |
|-------|-----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|-----------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 36.4997 | 13.60 | 18.34 | 40.00 | 21.66 | 150 | 336 | Horizonta |
| 2 | 113.913 | 13.61 | 22.36 | 43.50 | 21.14 | 150 | 96 | Horizonta |
| 3 | 171.052 | 12.34 | 19.47 | 43.50 | 24.03 | 150 | 72 | Horizonta |
| 4 | 227.996 | 15.49 | 24.81 | 46.00 | 21.19 | 150 | 283 | Horizonta |
| 5 | 621.662 | 25.19 | 29.97 | 46.00 | 16.03 | 150 | 115 | Horizonta |
| 6 | 845.075 | 29.29 | 32.99 | 46.00 | 13.01 | 150 | 349 | Horizonta |

| Test | Re | port |
|------|----|------|
|------|----|------|

| Project Information | | | | | | | | | |
|---------------------|-----------------|--------------|-----------|--|--|--|--|--|--|
| EUT: | ePaper | Environment: | 21.1℃ 47% | | | | | | |
| Model: | SN03 | SN: | | | | | | | |
| Mode: | 11AC20_5260 | Voltage: | DC5V 1.5A | | | | | | |
| Customer: | | Engineer: | Kennys | | | | | | |
| Remark: | Power Set: 19.5 | | | | | | | | |
| Test Standard: | | | | | | | | | |

Start of Test: 2023-04-20 16:30:45 Test Graph



| Final | Final Data List | | | | | | | | | | |
|-------|-----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 32.7163 | 12.75 | 22.38 | 40.00 | 17.62 | 150 | 144 | Vertical | | | |
| 2 | 42.4172 | 14.82 | 24.86 | 40.00 | 15.14 | 150 | 78 | Vertical | | | |
| 3 | 118.181 | 12.94 | 19.49 | 43.50 | 24.01 | 150 | 148 | Vertical | | | |
| 4 | 173.477 | 12.44 | 20.77 | 43.50 | 22.73 | 150 | 271 | Vertical | | | |
| 5 | 225.183 | 15.44 | 21.95 | 46.00 | 24.05 | 150 | 120 | Vertical | | | |
| 6 | 863.701 | 29.01 | 33.68 | 46.00 | 12.32 | 150 | 303 | Vertical | | | |

APPENDIX B - Radiated Emission Above 1GHz Test Data

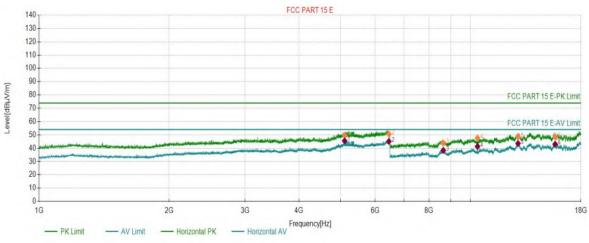
| Project Information | | | | | | | | | |
|---------------------|-----------------|-----------|-----------|--|--|--|--|--|--|
| Customer: | | EUT: | ePaper | | | | | | |
| Model: | SN03 | SN: | | | | | | | |
| Mode: | 11AC20_5180 | Voltage: | DC5V 1.5A | | | | | | |
| Environment: | 21.1℃ 47% | Engineer: | Kennys | | | | | | |
| Remark: | Power Set: 17.5 | | | | | | | | |
| Test Standard | | | | | | | | | |

Test Report

Test Standard:

Start of Test: 2023-04-17 19:54:41

Test Graph



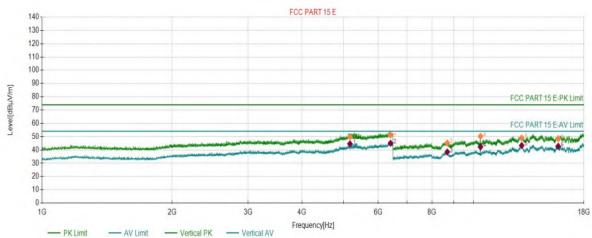
| PK Fi | PK Final Data List | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5101.7602 | 17.60 | 49.72 | 74.00 | 24.28 | 200 | 296 | Horizontal | | |
| 2 | 6459.8460 | 21.78 | 50.55 | 74.00 | 23.45 | 100 | 345 | Horizontal | | |
| 3 | 8634.6135 | 1.89 | 43.80 | 74.00 | 30.20 | 100 | 293 | Horizontal | | |
| 4 | 10363.2363 | 3.89 | 47.68 | 74.00 | 26.32 | 100 | 211 | Horizontal | | |
| 5 | 12864.7365 | 10.22 | 48.51 | 74.00 | 25.49 | 200 | 355 | Horizontal | | |
| 6 | 15681.3681 | 11.53 | 48.41 | 74.00 | 25.59 | 200 | 292 | Horizontal | | |

| AV | Final | Data | List |
|----|-------|------|------|
| | | | |

| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | |
|-----|----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|
| 1 | 5101.7602 | 17.60 | 45.52 | 54.00 | 8.48 | 200 | 296 | Horizontal | |
| 2 | 6459.8460 | 21.78 | 45.09 | 54.00 | 8.91 | 100 | 345 | Horizontal | |
| 3 | 8634.6135 | 1.89 | 38.34 | 54.00 | 15.66 | 100 | 293 | Horizontal | |
| 4 | 10363.2363 | 3.89 | 41.33 | 54.00 | 12.67 | 100 | 211 | Horizontal | |
| 5 | 12864.7365 | 10.22 | 43.56 | 54.00 | 10.44 | 200 | 355 | Horizontal | |
| 6 | 15681.3681 | 11.53 | 43.02 | 54.00 | 10.98 | 200 | 292 | Horizontal | |

| | Project Information | | | | | | | | | | |
|----------------|---------------------|-----------|-----------|--|--|--|--|--|--|--|--|
| Customer: | EUT: ePaper | | | | | | | | | | |
| Model: | SN03 | SN: | | | | | | | | | |
| Mode: | 11AC20_5180 | Voltage: | DC5V 1.5A | | | | | | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | | | | | | |
| Remark: | Power Set: 17.5 | | | | | | | | | | |
| Test Standard: | | | | | | | | | | | |

Start of Test: 2023-04-17 19:57:25 Test Graph

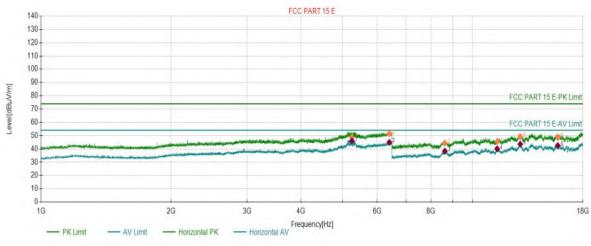


| PK Fi | PK Final Data List | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5166.1166 | 20.77 | 49.83 | 74.00 | 24.17 | 100 | 230 | Vertical | | |
| 2 | 6414.1914 | 21.82 | 51.18 | 74.00 | 22.82 | 100 | 256 | Vertical | | |
| 3 | 8681.7682 | 2.01 | 45.25 | 74.00 | 28.75 | 100 | 109 | Vertical | | |
| 4 | 10363.2363 | 3.89 | 50.27 | 74.00 | 23.73 | 200 | 143 | Vertical | | |
| 5 | 12910.7411 | 10.72 | 48.96 | 74.00 | 25.04 | 200 | 307 | Vertical | | |
| 6 | 15683.6684 | 11.53 | 48.51 | 74.00 | 25.49 | 100 | 344 | Vertical | | |

| AV Fi | AV Final Data List | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5166.1166 | 20.77 | 44.59 | 54.00 | 9.41 | 100 | 230 | Vertical | | |
| 2 | 6414.1914 | 21.82 | 45.04 | 54.00 | 8.96 | 100 | 256 | Vertical | | |
| 3 | 8681.7682 | 2.01 | 38.46 | 54.00 | 15.54 | 100 | 109 | Vertical | | |
| 4 | 10363.2363 | 3.89 | 42.26 | 54.00 | 11.74 | 200 | 143 | Vertical | | |
| 5 | 12910.7411 | 10.72 | 43.38 | 54.00 | 10.62 | 200 | 307 | Vertical | | |
| 6 | 15683.6684 | 11.53 | 42.77 | 54.00 | 11.23 | 100 | 344 | Vertical | | |

| | Project Information | | | | | | | | | |
|----------------|---------------------|-----------|-----------|--|--|--|--|--|--|--|
| Customer: | | ePaper | | | | | | | | |
| Model: | SN03 | SN: | | | | | | | | |
| Mode: | 11AC20_5220 | Voltage: | DC5V 1.5A | | | | | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | | | | | |
| Remark: | Power Set: 19.5 | | | | | | | | | |
| Test Standard: | | | | | | | | | | |

Start of Test: 2023-04-17 20:03:15 Test Graph

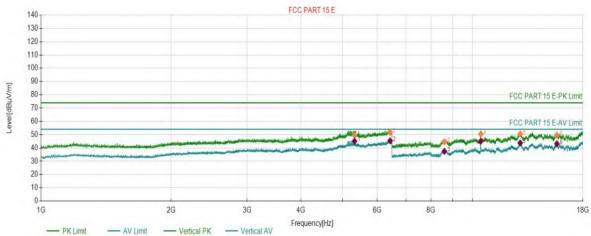


| PK Final Data List | | | | | | | | | |
|--------------------|----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 5248.0748 | 20.85 | 48.70 | 74.00 | 25.30 | 200 | 168 | Horizontal | |
| 2 | 6404.2904 | 21.83 | 51.40 | 74.00 | 22.60 | 200 | 54 | Horizontal | |
| 3 | 8613.9114 | 1.84 | 44.37 | 74.00 | 29.63 | 200 | 164 | Horizontal | |
| 4 | 11384.5385 | 5.49 | 45.46 | 74.00 | 28.54 | 100 | 203 | Horizontal | |
| 5 | 12878.5379 | 10.46 | 49.22 | 74.00 | 24.78 | 100 | 226 | Horizontal | |
| 6 | 15728.5229 | 11.27 | 48.81 | 74.00 | 25.19 | 200 | 315 | Horizontal | |

| AV Fi | AV Final Data List | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5248.0748 | 20.85 | 46.01 | 54.00 | 7.99 | 200 | 168 | Horizontal | | |
| 2 | 6404.2904 | 21.83 | 44.89 | 54.00 | 9.11 | 200 | 54 | Horizontal | | |
| 3 | 8613.9114 | 1.84 | 38.33 | 54.00 | 15.67 | 200 | 164 | Horizontal | | |
| 4 | 11384.5385 | 5.49 | 40.05 | 54.00 | 13.95 | 100 | 203 | Horizontal | | |
| 5 | 12878.5379 | 10.46 | 43.61 | 54.00 | 10.39 | 100 | 226 | Horizontal | | |
| 6 | 15728.5229 | 11.27 | 42.54 | 54.00 | 11.46 | 200 | 315 | Horizontal | | |

| | Project | Information | | | | |
|----------------|-----------------|-------------|-----------|--|--|--|
| Customer: | | EUT: | ePaper | | | |
| Model: | SN03 | SN03 SN: | | | | |
| Mode: | 11AC20_5220 | Voltage: | DC5V 1.5A | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | |
| Remark: | Power Set: 19.5 | | | | | |
| Test Standard: | | | | | | |

Start of Test: 2023-04-17 20:05:50 Test Graph

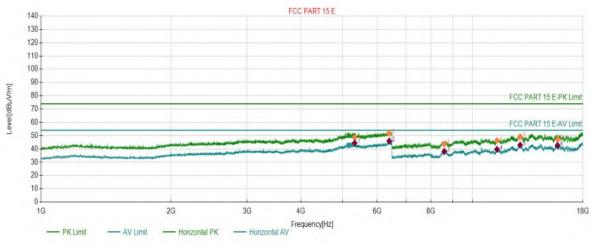


| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5322.3322 | 20.98 | 49.51 | 74.00 | 24.49 | 100 | 349 | Vertical | | | |
| 2 | 6432.3432 | 21.80 | 51.58 | 74.00 | 22.42 | 100 | 360 | Vertical | | | |
| 3 | 8592.0592 | 1.78 | 44.62 | 74.00 | 29.38 | 200 | 139 | Vertical | | | |
| 4 | 10437.9938 | 4.20 | 50.43 | 74.00 | 23.57 | 100 | 338 | Vertical | | | |
| 5 | 12879.6880 | 10.48 | 50.59 | 74.00 | 23.41 | 100 | 66 | Vertical | | | |
| 6 | 15657.2157 | 11.57 | 49.68 | 74.00 | 24.32 | 100 | 222 | Vertical | | | |

| AV Fi | AV Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5322.3322 | 20.98 | 45.14 | 54.00 | 8.86 | 100 | 349 | Vertical | | | |
| 2 | 6432.3432 | 21.80 | 45.32 | 54.00 | 8.68 | 100 | 360 | Vertical | | | |
| 3 | 8592.0592 | 1.78 | 37.43 | 54.00 | 16.57 | 200 | 139 | Vertical | | | |
| 4 | 10437.9938 | 4.20 | 45.12 | 54.00 | 8.88 | 100 | 338 | Vertical | | | |
| 5 | 12879.6880 | 10.48 | 43.74 | 54.00 | 10.26 | 100 | 66 | Vertical | | | |
| 6 | 15657.2157 | 11.57 | 43.19 | 54.00 | 10.81 | 100 | 222 | Vertical | | | |

| | Project Information | | | | | | | | | | |
|----------------|---------------------|-----------|-----------|--|--|--|--|--|--|--|--|
| Customer: | | EUT: | ePaper | | | | | | | | |
| Model: | SN03 | SN: | | | | | | | | | |
| Mode: | 11AC20_5240 | Voltage: | DC5V 1.5A | | | | | | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | | | | | | |
| Remark: | Power Set: 19.5 | | | | | | | | | | |
| Test Standard: | | | | | | | | | | | |

Start of Test: 2023-04-17 20:17:24 Test Graph

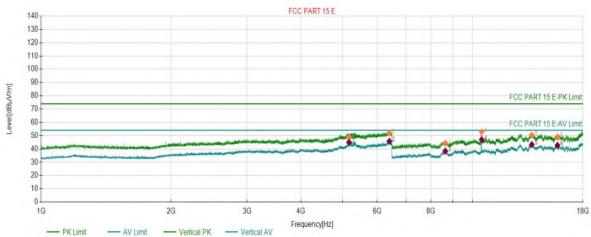


| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5325.0825 | 20.99 | 48.55 | 74.00 | 25.45 | 200 | 12 | Horizontal | | | |
| 2 | 6401.5402 | 21.83 | 51.72 | 74.00 | 22.28 | 200 | 41 | Horizontal | | | |
| 3 | 8590.9091 | 1.77 | 43.75 | 74.00 | 30.25 | 100 | 158 | Horizontal | | | |
| 4 | 11377.6378 | 5.46 | 46.29 | 74.00 | 27.71 | 200 | 197 | Horizontal | | | |
| 5 | 12871.6372 | 10.34 | 49.13 | 74.00 | 24.87 | 100 | 119 | Horizontal | | | |
| 6 | 15715.8716 | 11.37 | 47.26 | 74.00 | 26.74 | 200 | 360 | Horizontal | | | |

| AV Final Data List | | | | | | | | | | |
|--------------------|----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5325.0825 | 20.99 | 44.41 | 54.00 | 9.59 | 200 | 12 | Horizontal | | |
| 2 | 6401.5402 | 21.83 | 45.89 | 54.00 | 8.11 | 200 | 41 | Horizontal | | |
| 3 | 8590.9091 | 1.77 | 38.13 | 54.00 | 15.87 | 100 | 158 | Horizontal | | |
| 4 | 11377.6378 | 5.46 | 39.67 | 54.00 | 14.33 | 200 | 197 | Horizontal | | |
| 5 | 12871.6372 | 10.34 | 42.92 | 54.00 | 11.08 | 100 | 119 | Horizontal | | |
| 6 | 15715.8716 | 11.37 | 42.72 | 54.00 | 11.28 | 200 | 360 | Horizontal | | |

| | Project Information | | | | | | | | | | |
|----------------|---------------------|-----------|-----------|--|--|--|--|--|--|--|--|
| Customer: | | EUT: | ePaper | | | | | | | | |
| Model: | SN03 | SN: | | | | | | | | | |
| Mode: | 11AC20_5240 | Voltage: | DC5V 1.5A | | | | | | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | | | | | | |
| Remark: | Power Set: 19.5 | | | | | | | | | | |
| Test Standard: | | | | | | | | | | | |

Start of Test: 2023-04-17 20:19:58 Test Graph

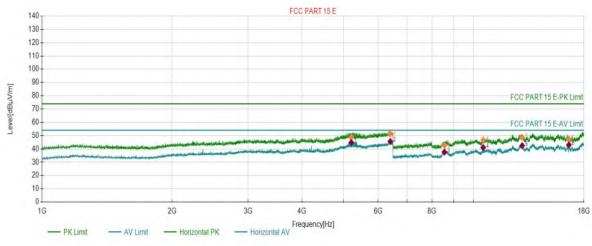


| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5166.1166 | 20.77 | 48.81 | 74.00 | 25.19 | 200 | 13 | Vertical | | | |
| 2 | 6407.0407 | 21.82 | 51.86 | 74.00 | 22.14 | 100 | 247 | Vertical | | | |
| 3 | 8636.9137 | 1.90 | 44.21 | 74.00 | 29.79 | 100 | 359 | Vertical | | | |
| 4 | 10482.8483 | 4.66 | 52.84 | 74.00 | 21.16 | 200 | 208 | Vertical | | | |
| 5 | 13698.5699 | 11.82 | 50.32 | 74.00 | 23.68 | 200 | 230 | Vertical | | | |
| 6 | 15703.2203 | 11.47 | 48.91 | 74.00 | 25.09 | 100 | 276 | Vertical | | | |

| AV Fi | AV Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5166.1166 | 20.77 | 44.97 | 54.00 | 9.03 | 200 | 13 | Vertical | | | |
| 2 | 6407.0407 | 21.82 | 45.73 | 54.00 | 8.27 | 100 | 247 | Vertical | | | |
| 3 | 8636.9137 | 1.90 | 38.36 | 54.00 | 15.64 | 100 | 359 | Vertical | | | |
| 4 | 10482.8483 | 4.66 | 46.98 | 54.00 | 7.02 | 200 | 208 | Vertical | | | |
| 5 | 13698.5699 | 11.82 | 43.36 | 54.00 | 10.64 | 200 | 230 | Vertical | | | |
| 6 | 15703.2203 | 11.47 | 42.79 | 54.00 | 11.21 | 100 | 276 | Vertical | | | |

| | Project Information | | | | | | | | | | |
|----------------|---------------------|-----------|-----------|--|--|--|--|--|--|--|--|
| Customer: | | EUT: | ePaper | | | | | | | | |
| Model: | SN03 | SN: | | | | | | | | | |
| Mode: | 11AC20_5260 | Voltage: | DC5V 1.5A | | | | | | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | | | | | | |
| Remark: | Power Set: 19.5 | | | | | | | | | | |
| Test Standard: | | | | | | | | | | | |

Start of Test: 2023-04-17 20:24:48 Test Graph

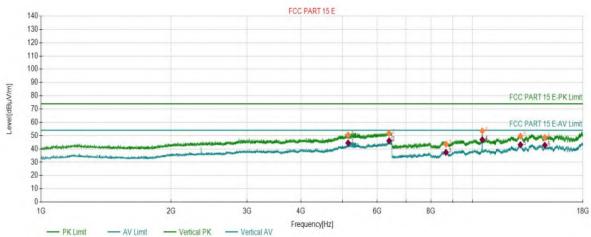


| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5202.4202 | 20.76 | 48.83 | 74.00 | 25.17 | 100 | 173 | Horizontal | | | |
| 2 | 6404.2904 | 21.83 | 51.25 | 74.00 | 22.75 | 200 | 9 | Horizontal | | | |
| 3 | 8549.5050 | 1.65 | 42.63 | 74.00 | 31.37 | 100 | 360 | Horizontal | | | |
| 4 | 10512.7513 | 4.83 | 46.64 | 74.00 | 27.36 | 200 | 208 | Horizontal | | | |
| 5 | 12940.6441 | 10.37 | 48.75 | 74.00 | 25.25 | 200 | 360 | Horizontal | | | |
| 6 | 16604.9105 | 10.77 | 47.33 | 74.00 | 26.67 | 100 | 140 | Horizontal | | | |

| AV Fi | AV Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5202.4202 | 20.76 | 44.86 | 54.00 | 9.14 | 100 | 173 | Horizontal | | | |
| 2 | 6404.2904 | 21.83 | 45.63 | 54.00 | 8.37 | 200 | 9 | Horizontal | | | |
| 3 | 8549.5050 | 1.65 | 37.61 | 54.00 | 16.39 | 100 | 360 | Horizontal | | | |
| 4 | 10512.7513 | 4.83 | 41.03 | 54.00 | 12.97 | 200 | 208 | Horizontal | | | |
| 5 | 12940.6441 | 10.37 | 42.46 | 54.00 | 11.54 | 200 | 360 | Horizontal | | | |
| 6 | 16604.9105 | 10.77 | 43.04 | 54.00 | 10.96 | 100 | 140 | Horizontal | | | |

| | Project | Information | | | | |
|----------------|-----------------|-------------|-----------|--|--|--|
| Customer: | | EUT: | ePaper | | | |
| Model: | SN03 | SN: | | | | |
| Mode: | 11AC20_5260 | Voltage: | DC5V 1.5A | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | |
| Remark: | Power Set: 19.5 | | | | | |
| Test Standard: | | | | | | |

Start of Test: 2023-04-17 20:27:21 Test Graph

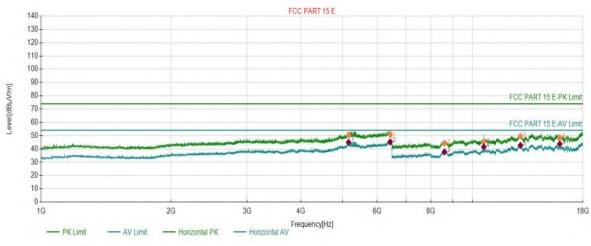


| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5143.0143 | 20.77 | 50.53 | 74.00 | 23.47 | 100 | 148 | Vertical | | | |
| 2 | 6400.4400 | 21.83 | 51.69 | 74.00 | 22.31 | 200 | 15 | Vertical | | | |
| 3 | 8664.5165 | 1.97 | 43.59 | 74.00 | 30.41 | 200 | 162 | Vertical | | | |
| 4 | 10518.5019 | 4.82 | 53.55 | 74.00 | 20.45 | 100 | 335 | Vertical | | | |
| 5 | 12894.6395 | 10.75 | 49.67 | 74.00 | 24.33 | 200 | 128 | Vertical | | | |
| 6 | 14680.7681 | 12.38 | 48.58 | 74.00 | 25.42 | 100 | 68 | Vertical | | | |

| AV Final Data List | | | | | | | | | | |
|--------------------|----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5143.0143 | 20.77 | 44.46 | 54.00 | 9.54 | 100 | 148 | Vertical | | |
| 2 | 6400.4400 | 21.83 | 46.12 | 54.00 | 7.88 | 200 | 15 | Vertical | | |
| 3 | 8664.5165 | 1.97 | 37.41 | 54.00 | 16.59 | 200 | 162 | Vertical | | |
| 4 | 10518.5019 | 4.82 | 46.96 | 54.00 | 7.04 | 100 | 335 | Vertical | | |
| 5 | 12894.6395 | 10.75 | 43.16 | 54.00 | 10.84 | 200 | 128 | Vertical | | |
| 6 | 14680.7681 | 12.38 | 42.78 | 54.00 | 11.22 | 100 | 68 | Vertical | | |

| | Project | Information | | | | |
|----------------|-----------------|-------------|-----------|--|--|--|
| Customer: | | EUT: | ePaper | | | |
| Model: | SN03 | SN: | | | | |
| Mode: | 11AC20_5300 | Voltage: | DC5V 1.5A | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | |
| Remark: | Power Set: 19.5 | | | | | |
| Test Standard: | | | | | | |

Start of Test: 2023-04-17 20:31:10 Test Graph

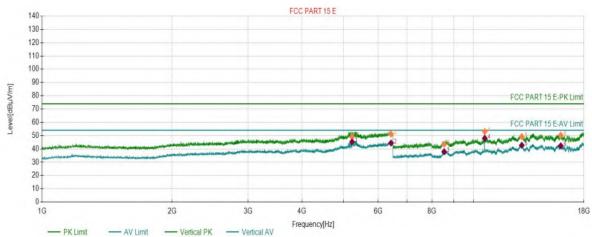


| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5154.5655 | 20.77 | 50.30 | 74.00 | 23.70 | 100 | 193 | Horizontal | | | |
| 2 | 6432.3432 | 21.80 | 50.90 | 74.00 | 23.10 | 200 | 160 | Horizontal | | | |
| 3 | 8597.8098 | 1.79 | 44.23 | 74.00 | 29.77 | 100 | 316 | Horizontal | | | |
| 4 | 10603.6104 | 4.75 | 45.34 | 74.00 | 28.66 | 200 | 216 | Horizontal | | | |
| 5 | 12894.6395 | 10.75 | 49.57 | 74.00 | 24.43 | 200 | 297 | Horizontal | | | |
| 6 | 15903.3403 | 11.97 | 48.58 | 74.00 | 25.42 | 100 | 284 | Horizontal | | | |

| AV Fi | AV Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5154.5655 | 20.77 | 44.97 | 54.00 | 9.03 | 100 | 193 | Horizontal | | | |
| 2 | 6432.3432 | 21.80 | 45.22 | 54.00 | 8.78 | 200 | 160 | Horizontal | | | |
| 3 | 8597.8098 | 1.79 | 37.79 | 54.00 | 16.21 | 100 | 316 | Horizontal | | | |
| 4 | 10603.6104 | 4.75 | 41.60 | 54.00 | 12.40 | 200 | 216 | Horizontal | | | |
| 5 | 12894.6395 | 10.75 | 42.68 | 54.00 | 11.32 | 200 | 297 | Horizontal | | | |
| 6 | 15903.3403 | 11.97 | 43.72 | 54.00 | 10.28 | 100 | 284 | Horizontal | | | |

| | Project | Information | | | | |
|----------------|-----------------|-------------|-----------|--|--|--|
| Customer: | | EUT: | ePaper | | | |
| Model: | SN03 | SN: | | | | |
| Mode: | 11AC20_5300 | Voltage: | DC5V 1.5A | | | |
| Environment: | 21.1°C 47% | Engineer: | Kennys | | | |
| Remark: | Power Set: 19.5 | | | | | |
| Test Standard: | | | | | | |

Start of Test: 2023-04-17 20:33:44 Test Graph

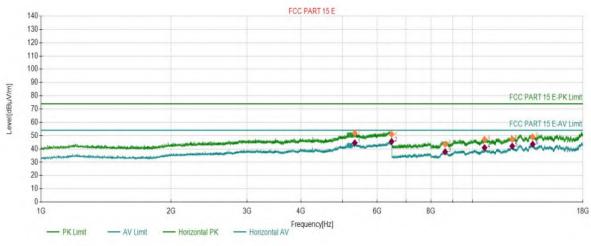


| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5224.4224 | 20.80 | 49.09 | 74.00 | 24.91 | 100 | 250 | Vertical | | | |
| 2 | 6430.1430 | 21.81 | 51.24 | 74.00 | 22.76 | 100 | 153 | Vertical | | | |
| 3 | 8536.8537 | 1.61 | 43.49 | 74.00 | 30.51 | 100 | 349 | Vertical | | | |
| 4 | 10601.3101 | 4.74 | 53.12 | 74.00 | 20.88 | 200 | 350 | Vertical | | | |
| 5 | 12916.4916 | 10.65 | 49.27 | 74.00 | 24.73 | 100 | 210 | Vertical | | | |
| 6 | 15899.8900 | 12.02 | 50.31 | 74.00 | 23.69 | 100 | 349 | Vertical | | | |

| AV Final Data List | | | | | | | | | | |
|--------------------|----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|----------|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | |
| 1 | 5224.4224 | 20.80 | 45.31 | 54.00 | 8.69 | 100 | 250 | Vertical | | |
| 2 | 6430.1430 | 21.81 | 44.41 | 54.00 | 9.59 | 100 | 153 | Vertical | | |
| 3 | 8536.8537 | 1.61 | 37.88 | 54.00 | 16.12 | 100 | 349 | Vertical | | |
| 4 | 10601.3101 | 4.74 | 48.03 | 54.00 | 5.97 | 200 | 350 | Vertical | | |
| 5 | 12916.4916 | 10.65 | 42.76 | 54.00 | 11.24 | 100 | 210 | Vertical | | |
| 6 | 15899.8900 | 12.02 | 42.31 | 54.00 | 11.69 | 100 | 349 | Vertical | | |

| | Project | Information | | | | |
|----------------|-----------------|-------------|-----------|--|--|--|
| Customer: | | ePaper | | | | |
| Model: | SN03 | SN: | | | | |
| Mode: | 11AC20_5320 | Voltage: | DC5V 1.5A | | | |
| Environment: | 21.1℃ 47% | Engineer: | Kennys | | | |
| Remark: | Power Set: 19.5 | | | | | |
| Test Standard: | | | | | | |

Start of Test: 2023-04-17 20:45:22 Test Graph



| PK Fi | PK Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | PK Value [dBµV/m] | PK Limit [dBµV/m] | PK Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5328.3828 | 20.99 | 51.82 | 74.00 | 22.18 | 200 | 297 | Horizontal | | | |
| 2 | 6485.6986 | 21.76 | 51.05 | 74.00 | 22.95 | 100 | 84 | Horizontal | | | |
| 3 | 8628.8629 | 1.88 | 43.45 | 74.00 | 30.55 | 200 | 358 | Horizontal | | | |
| 4 | 10645.0145 | 4.98 | 47.14 | 74.00 | 26.86 | 100 | 187 | Horizontal | | | |
| 5 | 12339.1339 | 7.49 | 47.28 | 74.00 | 26.72 | 200 | 322 | Horizontal | | | |
| 6 | 13761.8262 | 11.11 | 48.92 | 74.00 | 25.08 | 200 | 1 | Horizontal | | | |

| AV Fi | AV Final Data List | | | | | | | | | | |
|-------|--------------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|--|--|--|
| NO. | Freq. [MHz] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Height [cm] | Angle [°] | Polarity | | | |
| 1 | 5328.3828 | 20.99 | 44.55 | 54.00 | 9.45 | 200 | 297 | Horizontal | | | |
| 2 | 6485.6986 | 21.76 | 45.61 | 54.00 | 8.39 | 100 | 84 | Horizontal | | | |
| 3 | 8628.8629 | 1.88 | 37.81 | 54.00 | 16.19 | 200 | 358 | Horizontal | | | |
| 4 | 10645.0145 | 4.98 | 40.93 | 54.00 | 13.07 | 100 | 187 | Horizontal | | | |
| 5 | 12339.1339 | 7.49 | 42.05 | 54.00 | 11.95 | 200 | 322 | Horizontal | | | |
| 6 | 13761.8262 | 11.11 | 43.52 | 54.00 | 10.48 | 200 | 1 | Horizontal | | | |