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11AC20MIMO-Ant2-5320-PASS



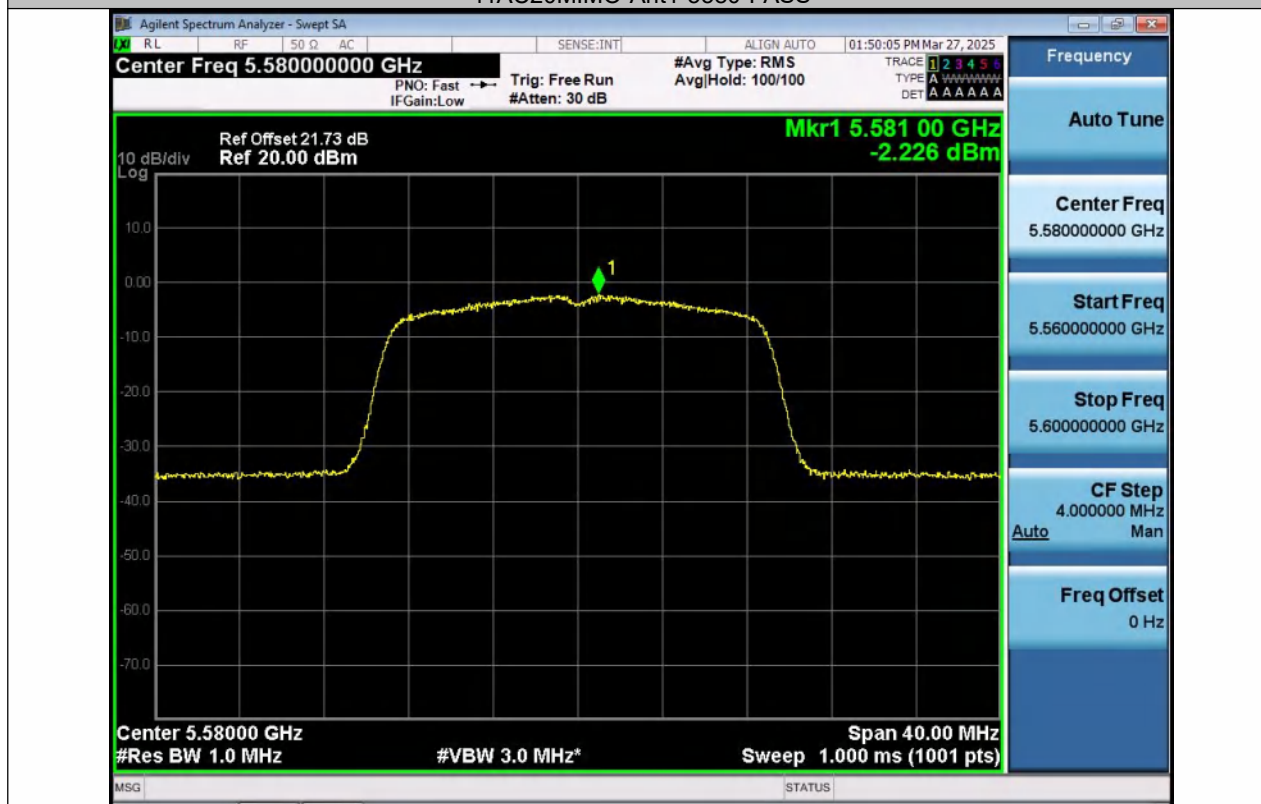
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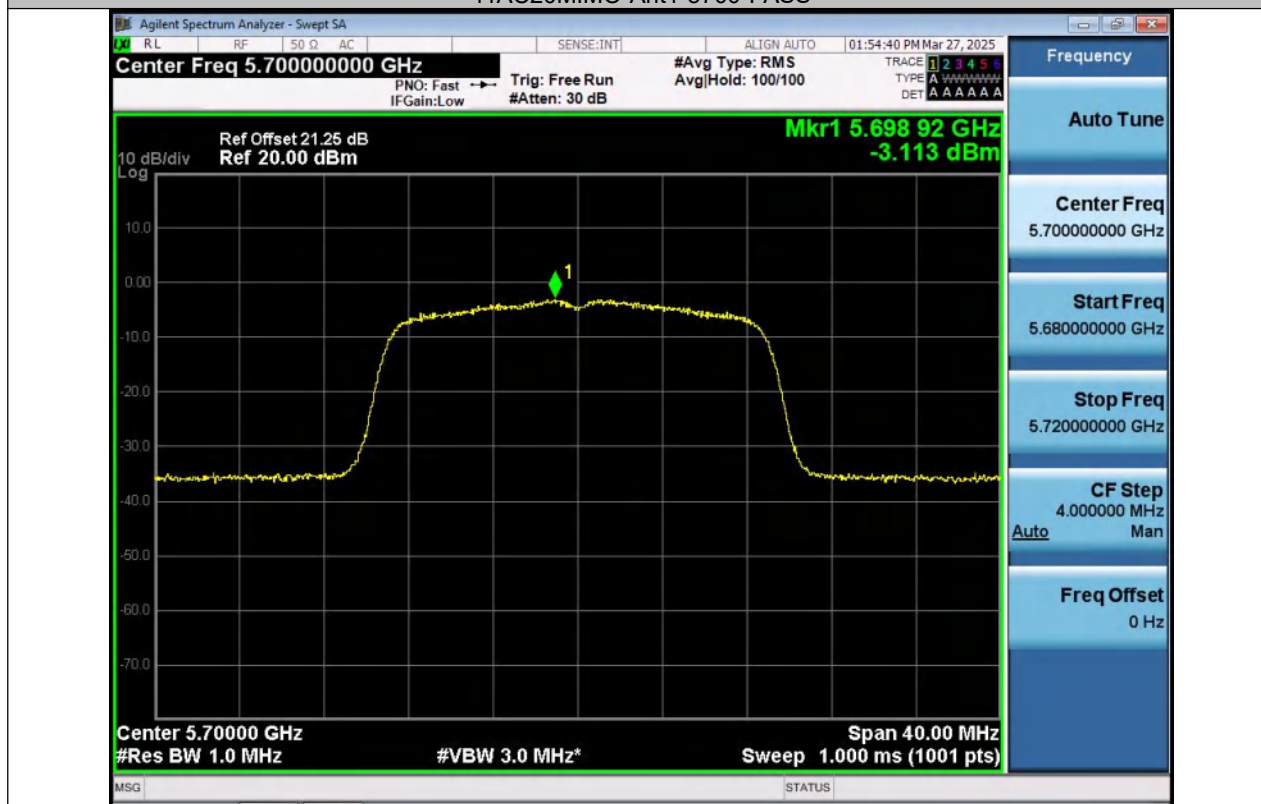
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11AC20MIMO-Ant1-5700-PASS



11AC20MIMO-Ant2-5700-PASS





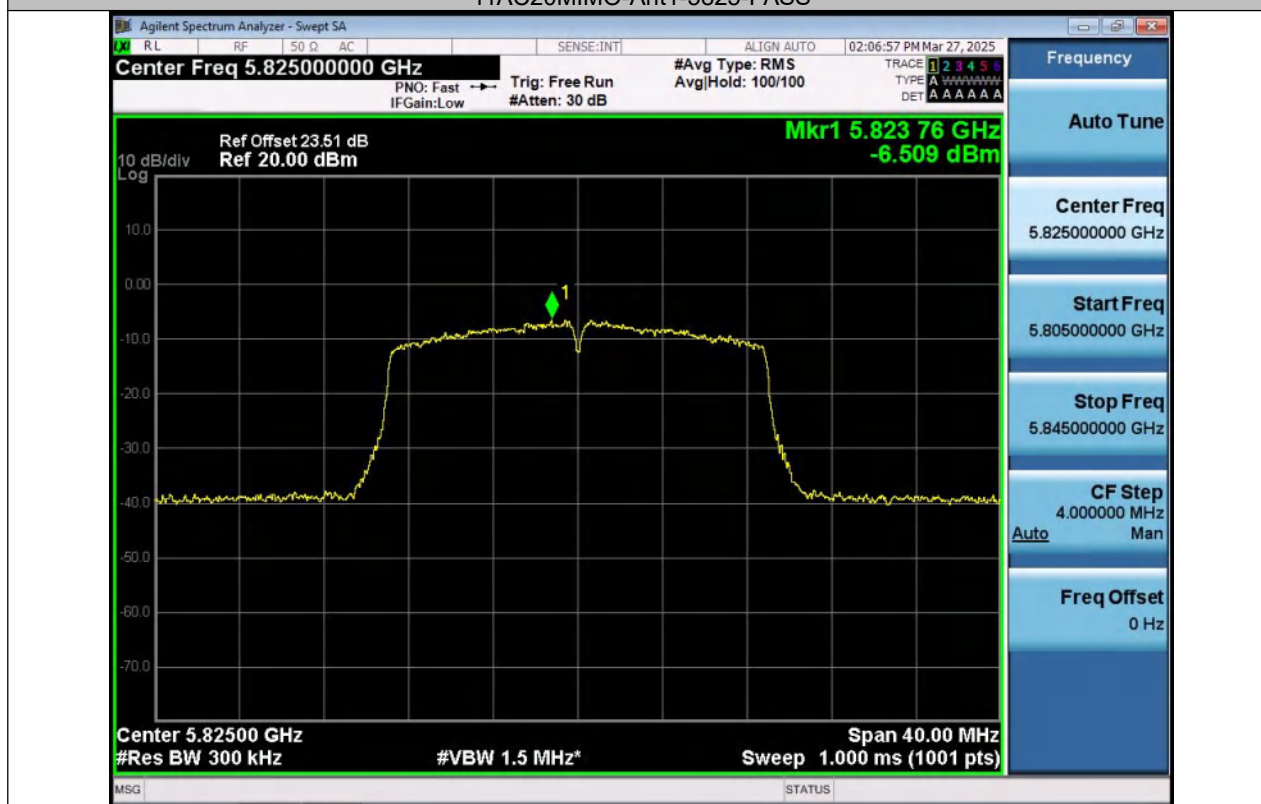
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11AC20MIMO-Ant1-5825-PASS



11AC20MIMO-Ant2-5825-PASS



11AC40MIMO-Ant1-5190-PASS



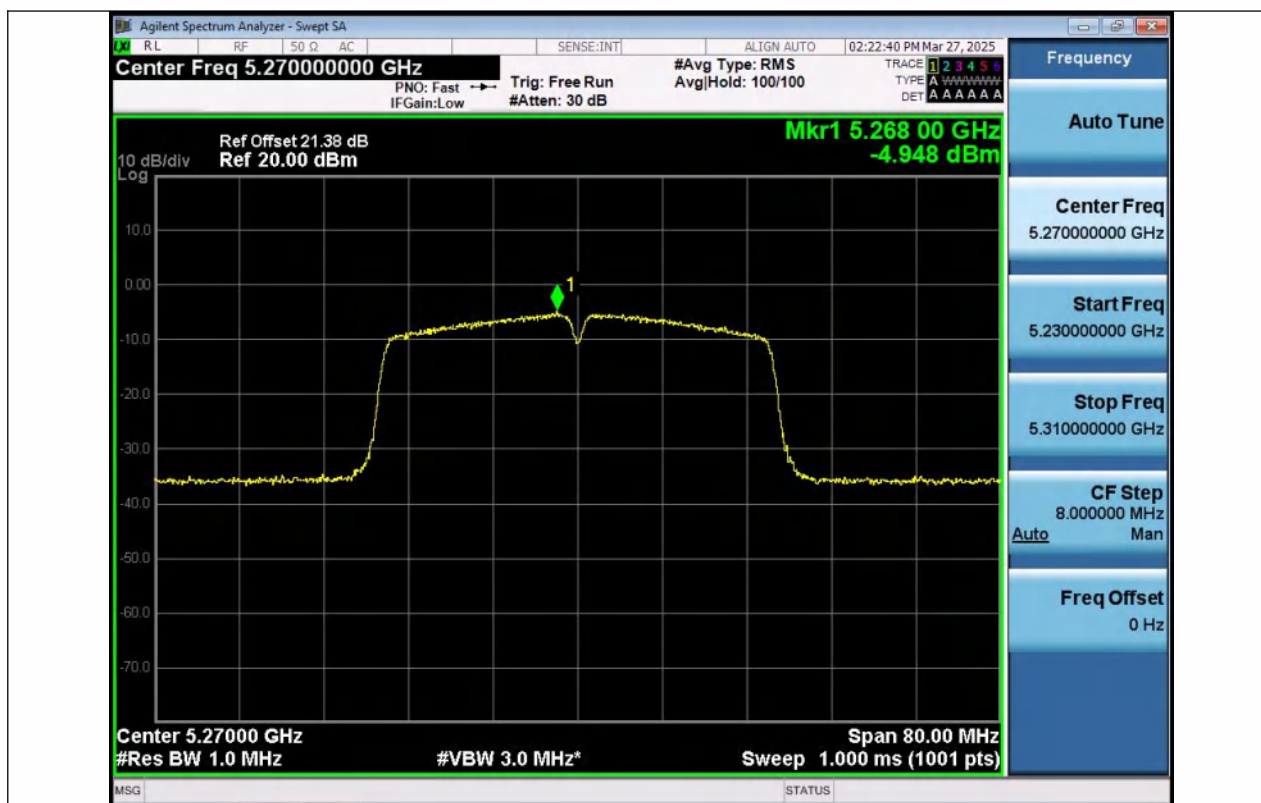
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11AC40MIMO-Ant1-5230-PASS



11AC40MIMO-Ant2-5230-PASS



11AC40MIMO-Ant1-5270-PASS



11AC40MIMO-Ant2-5270-PASS



11AC40MIMO-Ant1-5310-PASS



11AC40MIMO-Ant2-5310-PASS



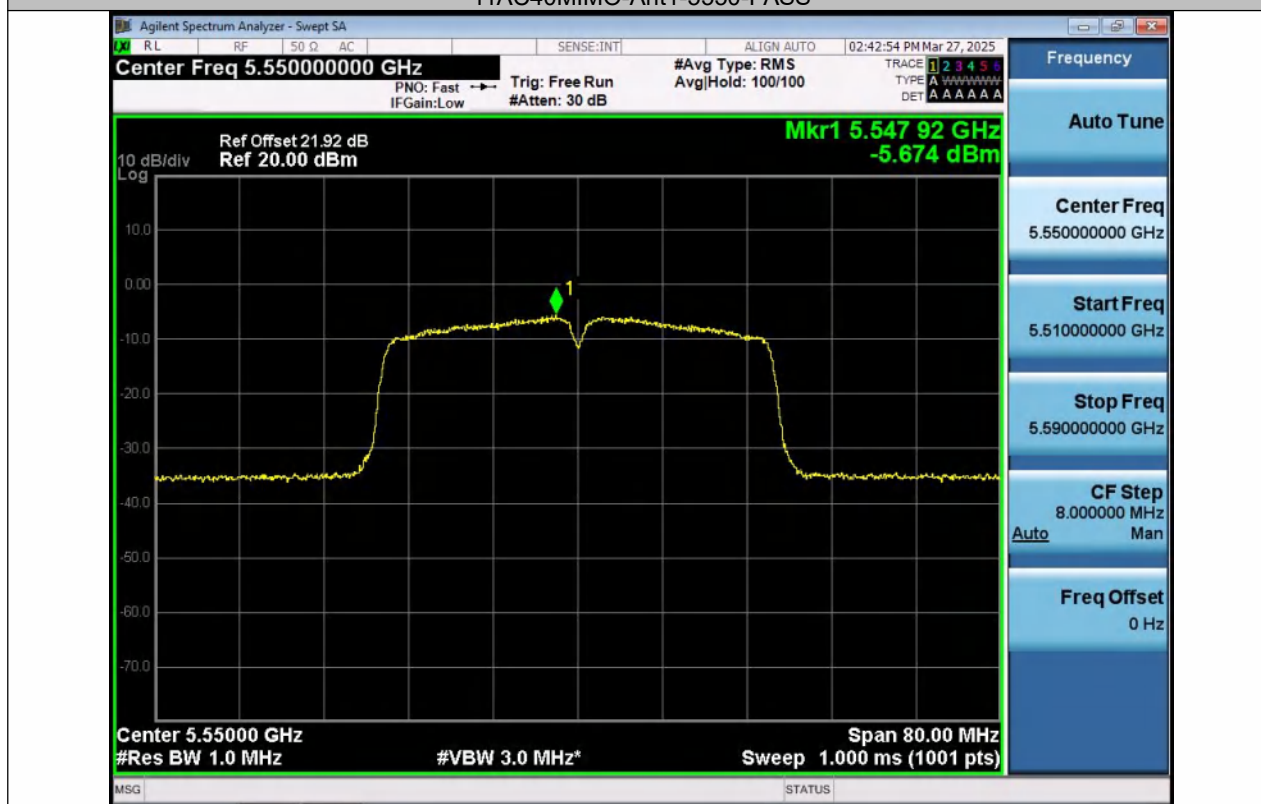
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11AC40MIMO-Ant2-5510-PASS



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11AC40MIMO-Ant2-5550-PASS



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11AC40MIMO-Ant2-5670-PASS



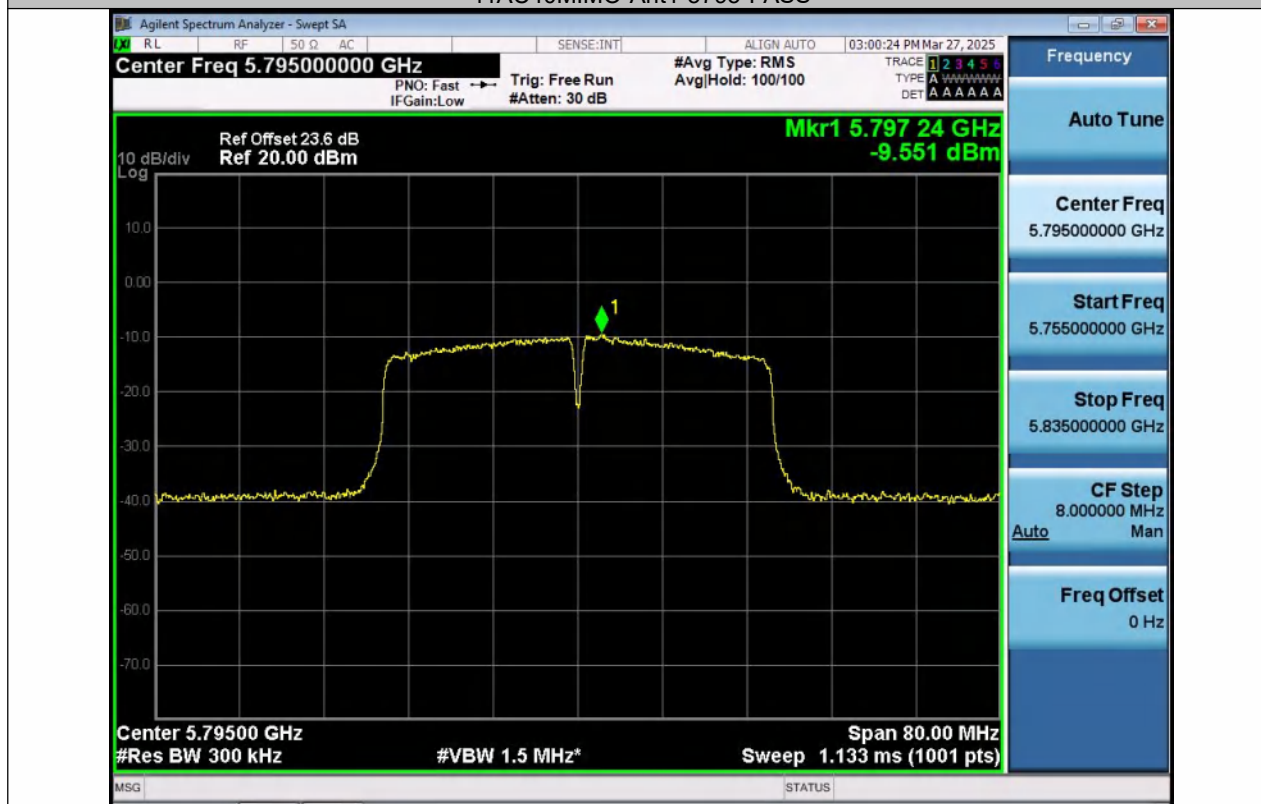
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11AC40MIMO-Ant2-5755-PASS



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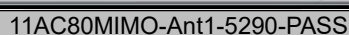
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11AC80MIMO-Ant1-5210-PASS



11AC80MIMO-Ant2-5210-PASS





11AC80MIMO-Ant1-5530-PASS



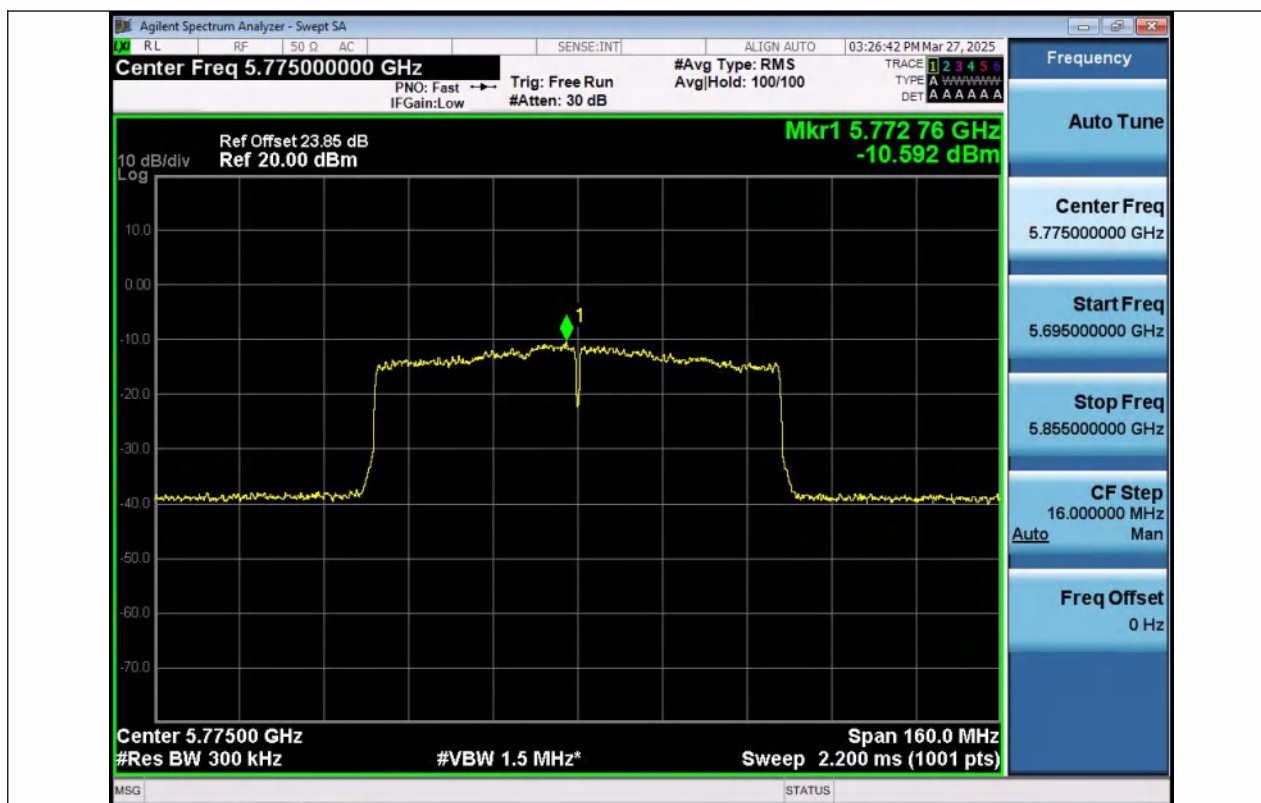
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11AC80MIMO-Ant1-5610-PASS



11AC80MIMO-Ant2-5610-PASS



11AC80MIMO-Ant1-5775-PASS



11AC80MIMO-Ant2-5775-PASS

8.4 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.4.1 Applicable Standard

According to FCC Part 15.407 (b), 15.209, 15.205

According to 789033 D02 SectionII(G)

According to RSS-GEN 8.9, 8.10 and 6.13

8.4.2 Conformance Limit

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.

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.

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.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section, 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	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	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			

- Remark:
1. Emission level in dBuV/m = $20 \log(uV/m)$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

8.4.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.4.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

Set RBW = 120kHz for $f < 1 \text{ GHz}$ (30MHz to 1GHz), 200Hz for $f < 150\text{kHz}$ (9kHz to 150kHz), 9kHz for $f > 150\text{kHz}$ (150kHz to 30kHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximumpeak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW $\geq$ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method VB (Averaging using reduced video bandwidth): Alternative method.

RBW = 1 MHz.

Video bandwidth. • If the EUT is configured to transmit with duty cycle $\geq$ 98 percent, set $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz.

• If the EUT duty cycle is < 98 percent, set $VBW \geq 1/T$, where T is defined in section II.B.1.a).

Video bandwidth mode or display mode • The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).

• As an alternative, the analyzer may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some analyzers require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25 percent. (If a specific emission is demonstrated to be continuous—i.e., 100 percent duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged.)

■ Band edge measurements.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

8.4.5 Test Results

Temperature:	25° C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance/ test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor

■ For Undesirable radiated Spurious Emission in U-NII - 1

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode: 802.11a		Frequency:		Channel 36: 5180MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8427.43	V	56.85	-38.38	-27	11.38
10015.5	V	60.89	-34.34	-27	7.34
12573.6	V	62.81	-32.42	-27	5.42
8581.44	H	57.92	-37.31	-27	10.31
9960.52	H	60.37	-34.86	-27	7.86
12573.6	H	62.40	-32.83	-27	5.83

Test mode: 802.11a		Frequency:		Channel 40: 5200MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7987.41	V	56.72	-38.51	-27	11.51
10005.5	V	61.08	-34.15	-27	7.15
12578.6	V	62.94	-32.29	-27	5.29
8423.43	H	58.03	-37.2	-27	10.2
9905.52	H	61.17	-34.06	-27	7.06
12672.6	H	62.25	-32.98	-27	5.98

Test mode: 802.11a		Frequency:		Channel 48: 5240MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7872.40	V	56.71	-38.52	-27	11.52
9939.52	V	61.07	-34.16	-27	7.16
12583.6	V	62.29	-32.94	-27	5.94
8686.45	H	57.90	-37.33	-27	10.33
10738.5	H	60.88	-34.35	-27	7.35
12722.6	H	62.73	-32.5	-27	5.5

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 36: 5180MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8427.43	V	56.85	40.51	74	54	17.15	13.49
10015.5	V	60.89	41.71	74	54	13.11	12.29
12573.6	V	62.81	45.97	74	54	11.19	8.03
8581.44	H	57.92	40.94	74	54	16.08	13.06
9960.52	H	60.37	41.68	74	54	13.63	12.32
12573.6	H	62.40	45.79	74	54	11.60	8.21

Test mode: 802.11a Frequency: Channel 40: 5200MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7987.41	V	56.72	39.69	74	54	17.28	14.31
10005.5	V	61.08	42.35	74	54	12.92	11.65
12578.6	V	62.94	45.63	74	54	11.06	8.37
8423.43	H	58.03	40.38	74	54	15.97	13.62
9905.52	H	61.17	41.61	74	54	12.83	12.39
12672.6	H	62.25	45.08	74	54	11.75	8.92

Test mode: 802.11a Frequency: Channel 48: 5240MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7872.40	V	56.71	39.07	74	54	17.29	14.93
9939.52	V	61.07	41.64	74	54	12.93	12.36
12583.6	V	62.29	45.94	74	54	11.71	8.06
8686.45	H	57.90	42.56	74	54	16.10	11.44
10738.5	H	60.88	44.80	74	54	13.12	9.20
12722.6	H	62.73	45.40	74	54	11.27	8.60

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode:		802.11ac(VHT20)		Frequency:	Channel 36: 5180MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5147.96	H	59.27	-35.96	-27	Pass
5144.71	V	54.20	-41.03	-27	Pass

Test mode:		802.11ac(VHT20)		Frequency:	Channel 48: 5240MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5351.1	H	54.63	-40.6	-27	Pass
5354.09	V	54.51	-40.72	-27	Pass

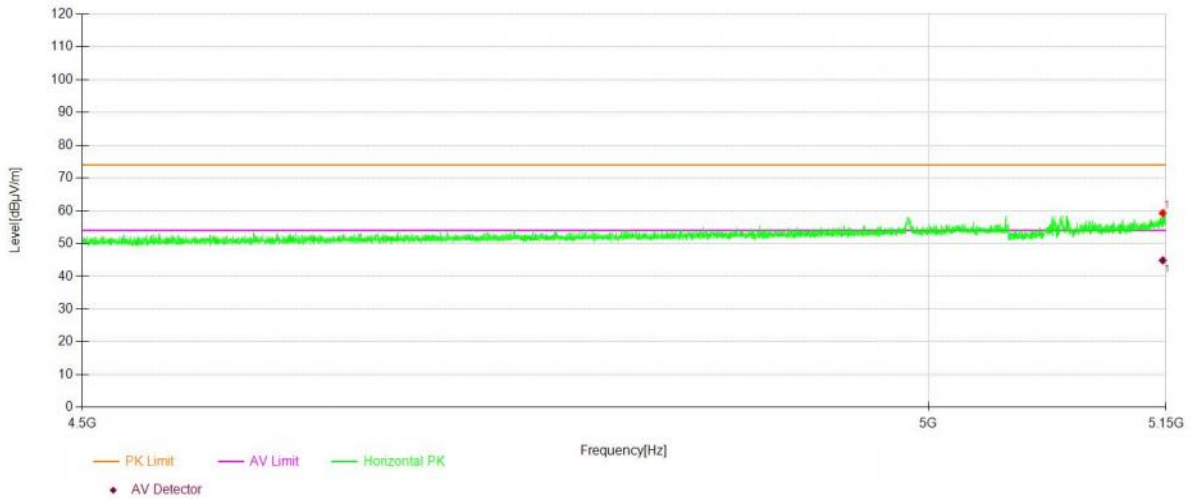
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:		802.11ac(VHT20)		Frequency:	Channel 36: 5180MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5147.96	H	59.27	74.00	44.86	54.00
5144.71	V	54.20	74.00	44.69	54.00

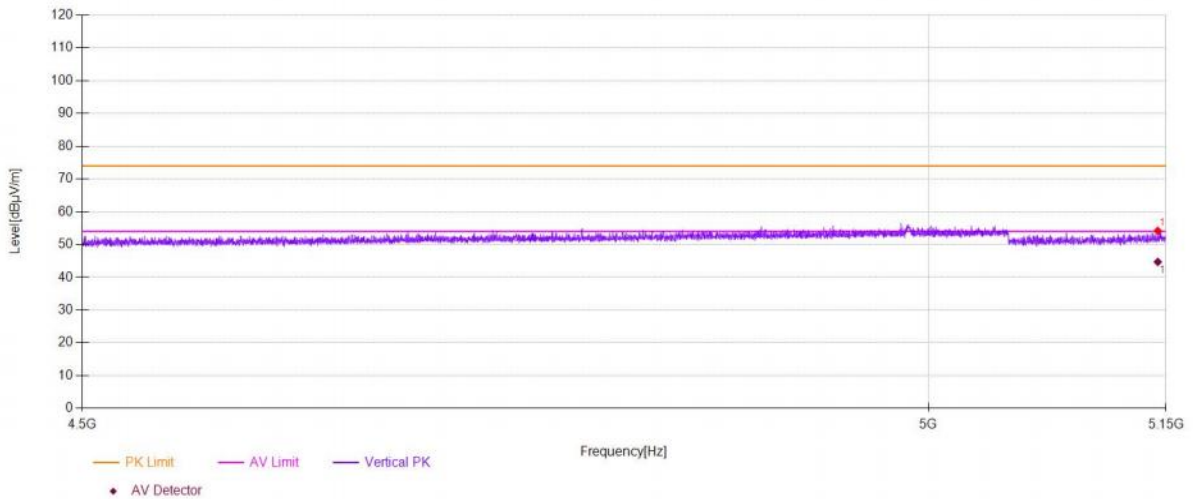
Test mode:		802.11ac(VHT20)		Frequency:	Channel 48: 5240MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5351.1	H	54.63	74.00	45.23	54.00
5354.09	V	54.51	74.00	45.20	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

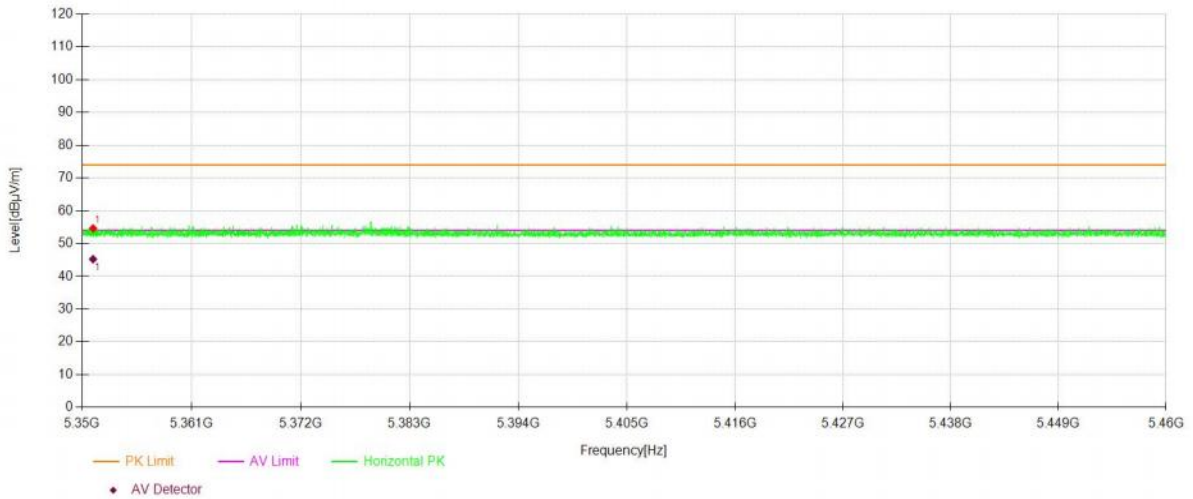
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 36: 5180MHz	Ant.Pol	H



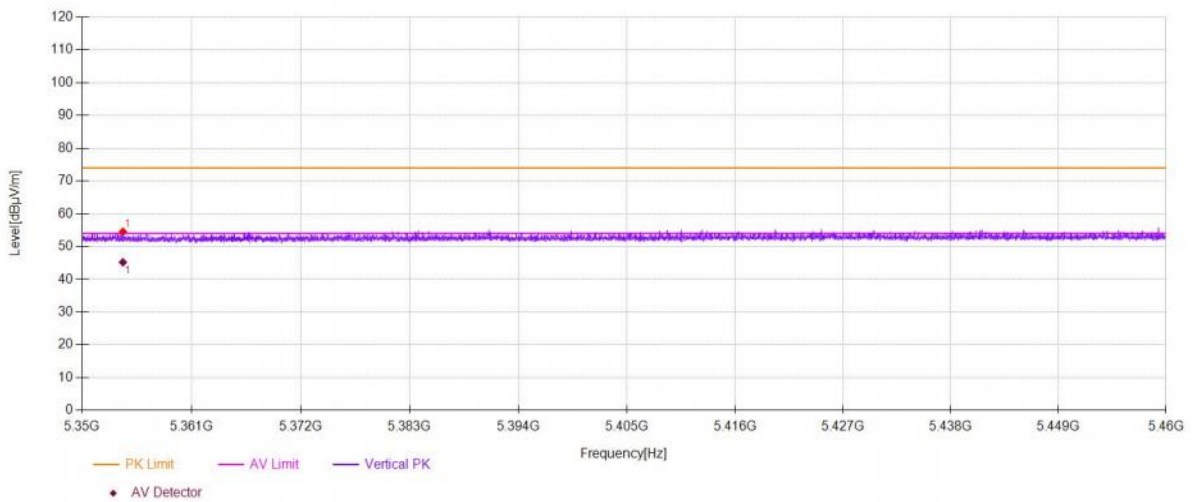
U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Emission in Band Edge	
	802.11ac(VHT20)	Channel 36: 5180MHz	Ant.Pol	V



U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 48: 5240MHz	Ant.Pol	H



U-NII - 1				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 48: 5240MHz	Ant.Pol	V



■ For Undesirable Radiated Spurious Emission in U-NII -2A

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode: 802.11a Frequency: Channel 52: 5260MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
7781.39	V	56.17	-39.06	-27	12.06
10055.5	V	62.38	-32.85	-27	5.85
12575.6	V	62.55	-32.68	-27	5.68
7975.41	H	56.27	-38.96	-27	11.96
10041.5	H	61.08	-34.15	-27	7.15
12669.6	H	62.67	-32.56	-27	5.56

Test mode: 802.11a Frequency: Channel 56: 5280MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8108.41	V	57.44	-37.79	-27	10.79
10710.5	V	60.33	-34.9	-27	7.9
12532.6	V	63.49	-31.74	-27	4.74
8100.41	H	56.32	-38.91	-27	11.91
10027.5	H	60.77	-34.46	-27	7.46
12581.6	H	62.58	-32.65	-27	5.65

Test mode: 802.11a Frequency: Channel 64: 5320MHz

Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
8078.41	V	56.36	-38.87	-27	11.87
9999.52	V	61.03	-34.2	-27	7.2
12681.6	V	62.79	-32.44	-27	5.44
7810.40	H	57.17	-38.06	-27	11.06
10057.5	H	61.69	-33.54	-27	6.54
12593.6	H	62.75	-32.48	-27	5.48

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 52: 5260MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7781.39	V	56.17	39.42	74	54	17.83	14.58
10055.5	V	62.38	42.85	74	54	11.62	11.15
12575.6	V	62.55	45.55	74	54	11.45	8.45
7975.41	H	56.27	39.26	74	54	17.73	14.74
10041.5	H	61.08	42.42	74	54	12.92	11.58
12669.6	H	62.67	45.20	74	54	11.33	8.80

Test mode: 802.11a Frequency: Channel 56: 5280MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8108.41	V	57.44	40.31	74	54	16.56	13.69
10710.5	V	60.33	45.51	74	54	13.67	8.49
12532.6	V	63.49	45.36	74	54	10.51	8.64
8100.41	H	56.32	40.75	74	54	17.68	13.25
10027.5	H	60.77	41.86	74	54	13.23	12.14
12581.6	H	62.58	45.91	74	54	11.42	8.09

Test mode: 802.11a Frequency: Channel 64: 5320MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8078.41	V	56.36	40.57	74	54	17.64	13.43
9999.52	V	61.03	41.98	74	54	12.97	12.02
12681.6	V	62.79	44.86	74	54	11.21	9.14
7810.40	H	57.17	39.39	74	54	16.83	14.61
10057.5	H	61.69	42.58	74	54	12.31	11.42
12593.6	H	62.75	46.68	74	54	11.25	7.32

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode:		802.11ac(VHT20)		Frequency:	Channel 52: 5260MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5137.73	H	58.24	-36.99	-27	Pass
5147.64	V	53.89	-41.34	-27	Pass

Test mode:		802.11ac(VHT20)		Frequency:	Channel 64: 5320MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5354.73	H	59.81	-35.42	-27	Pass
5359.47	V	55.32	-39.91	-27	Pass

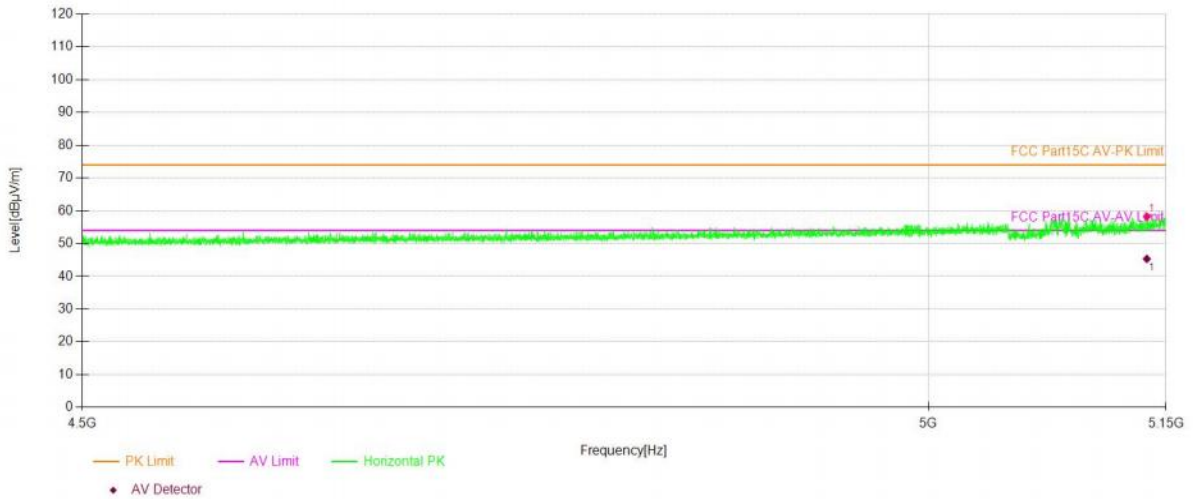
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:		802.11ac(VHT20)		Frequency:	Channel 52: 5260MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5137.73	H	58.24	74.00	45.31	54.00
5147.64	V	53.89	74.00	45.28	54.00

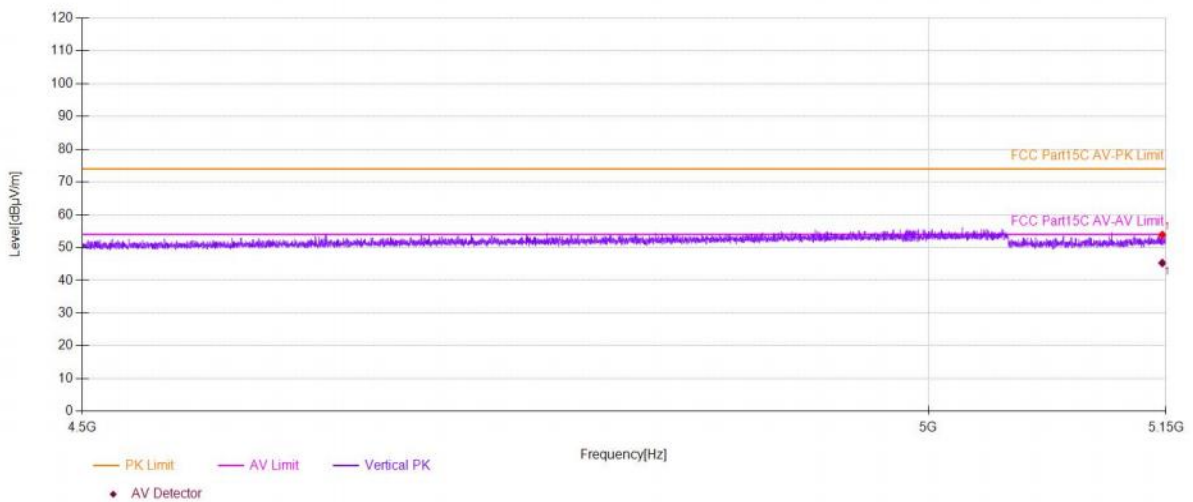
Test mode:		802.11ac(VHT20)		Frequency:	Channel 64: 5320MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5354.73	H	59.81	74.00	45.20	54.00
5359.47	V	55.32	74.00	45.31	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

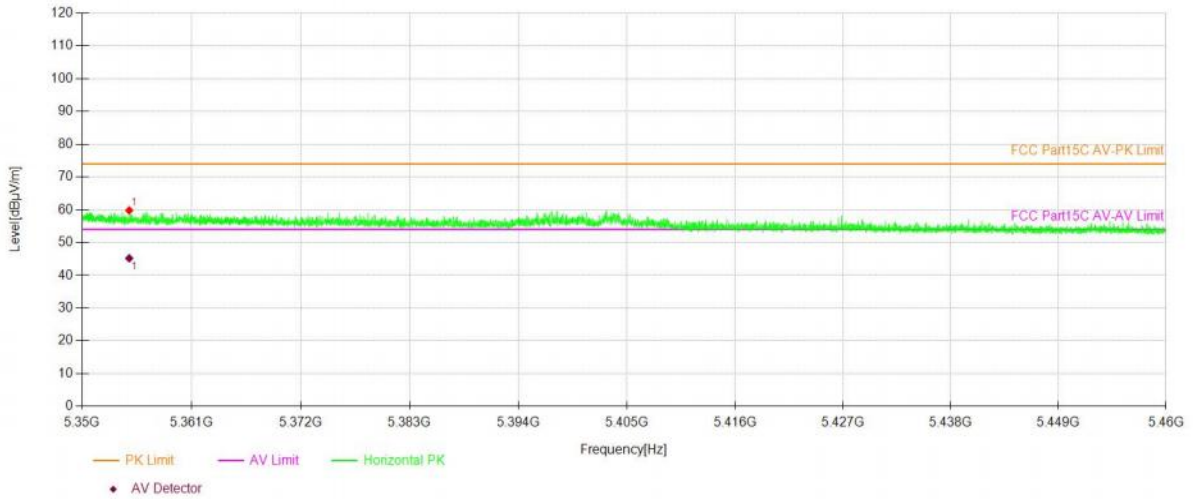
U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 52: 5260MHz	Ant.Pol	H



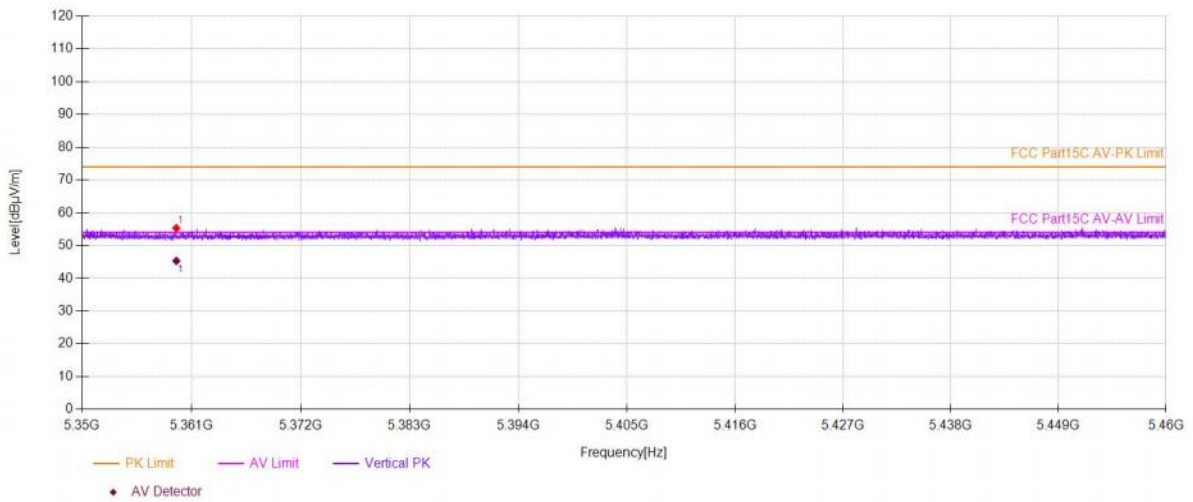
U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 52: 5260MHz	Ant.Pol	V



U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 64: 5320MHz	Ant.Pol	H



U-NII -2A				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 64: 5320MHz	Ant.Pol	V



■ For Undesirable radiated Spurious Emission in U-NII -2C

● Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All the antenna (Antenna 1&2) and modes (802.11a/n/ac) has been tested and the worst (Antenna 1, 802.11a) result recorded was report as below:

Test mode:		802.11a		Frequency:		Channel 100: 5500MHz	
Freq. (MHz)	Ant. Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over (dB)		
8664.45	V	57.63	-37.6	-27	10.6		
10129.5	V	61.35	-33.88	-27	6.88		
11987.6	V	61.89	-33.34	-27	6.34		
8669.45	H	57.65	-37.58	-27	10.58		
9968.52	H	61.26	-33.97	-27	6.97		
12585.6	H	63.22	-32.01	-27	5.01		

Test mode:		802.11a		Frequency:		Channel 116: 5580MHz	
Freq. (MHz)	Ant. Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over (dB)		
8681.45	V	57.23	-38	-27	11		
9977.52	V	60.74	-34.49	-27	7.49		
12591.6	V	63.61	-31.62	-27	4.62		
7430.37	H	56.09	-39.14	-27	12.14		
10118.5	H	60.49	-34.74	-27	7.74		
12537.6	H	62.64	-32.59	-27	5.59		

Test mode:		802.11a		Frequency:		Channel 140: 5700MHz	
Freq. (MHz)	Ant. Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over (dB)		
8659.45	V	57.20	-38.03	-27	11.03		
10101.5	V	61.92	-33.31	-27	6.31		
12581.6	V	63.26	-31.97	-27	4.97		
6932.34	H	54.99	-40.24	-27	13.24		
10065.5	H	61.45	-33.78	-27	6.78		
12576.6	H	63.07	-32.16	-27	5.16		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 100: 5500MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8664.45	V	57.63	42.27	74	54	16.37	11.73
10129.5	V	61.35	41.81	74	54	12.65	12.19
11987.6	V	61.89	41.46	74	54	12.11	12.54
8669.45	H	57.65	42.17	74	54	16.35	11.83
9968.52	H	61.26	41.87	74	54	12.74	12.13
12585.6	H	63.22	46.05	74	54	10.78	7.95

Test mode: 802.11a Frequency: Channel 116: 5580MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8681.45	V	57.23	41.41	74	54	16.77	12.59
9977.52	V	60.74	41.91	74	54	13.26	12.09
12591.6	V	63.61	46.18	74	54	10.39	7.82
7430.37	H	56.09	40.18	74	54	17.91	13.82
10118.5	H	60.49	42.65	74	54	13.51	11.35
12537.6	H	62.64	45.18	74	54	11.36	8.82

Test mode: 802.11a Frequency: Channel 140: 5700MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8659.45	V	57.20	41.62	74	54	16.80	12.38
10101.5	V	61.92	42.24	74	54	12.08	11.76
12581.6	V	63.26	46.20	74	54	10.74	7.80
6932.34	H	54.99	39.51	74	54	19.01	14.49
10065.5	H	61.45	42.30	74	54	12.55	11.70
12576.6	H	63.07	46.25	74	54	10.93	7.75

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode:		802.11ac(VHT20)		Frequency:	Channel 100: 5500MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5469.85	H	59.86	-35.37	-27	Pass
5468.68	V	55.77	-39.46	-27	Pass

Test mode:		802.11ac(VHT20)		Frequency:	Channel 140: 5700MHz
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5725.78	H	59.89	-35.34	-27	Pass
5725.71	V	56.87	-38.36	-27	Pass

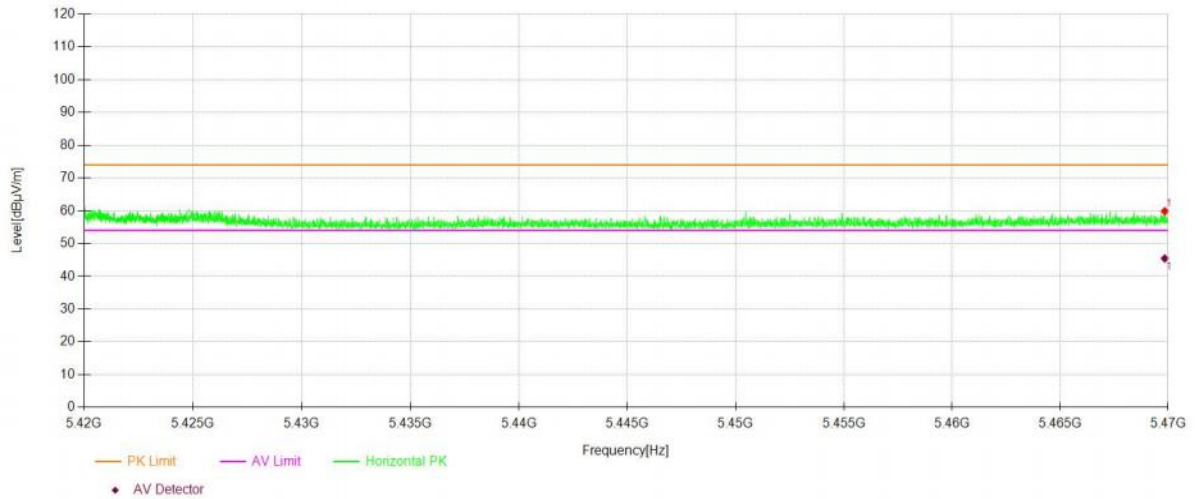
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3)EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode:		802.11ac(VHT20)		Frequency:	Channel 100: 5500MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5468.6875	V	55.77	74.00	45.77	54.00
5469.85	H	59.86	74.00	45.43	54.00

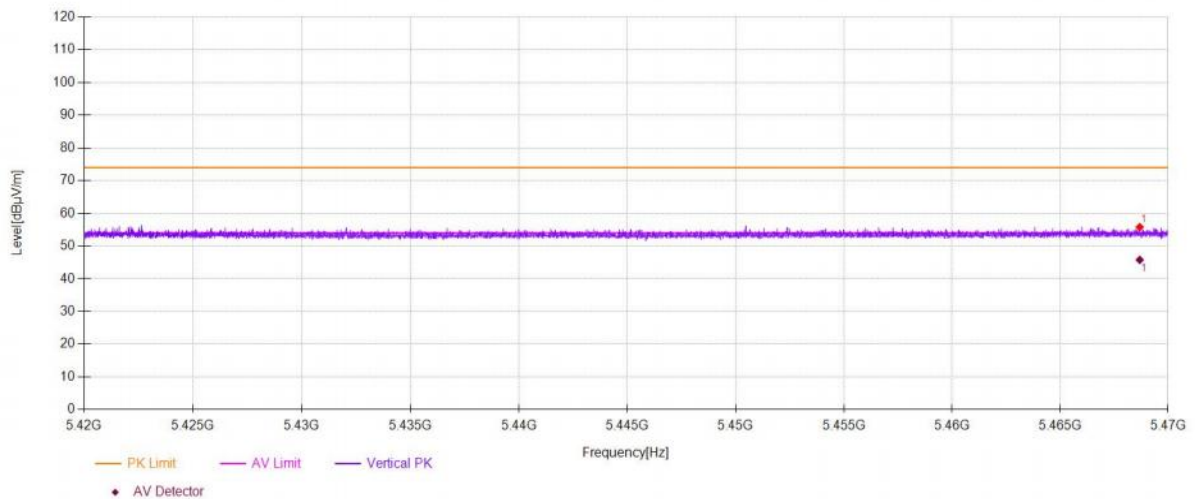
Test mode:		802.11ac(VHT20)		Frequency:	Channel 140: 5700MHz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
5725.7875	H	59.89	74.00	46.67	54.00
5725.7188	V	56.87	74.00	46.55	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

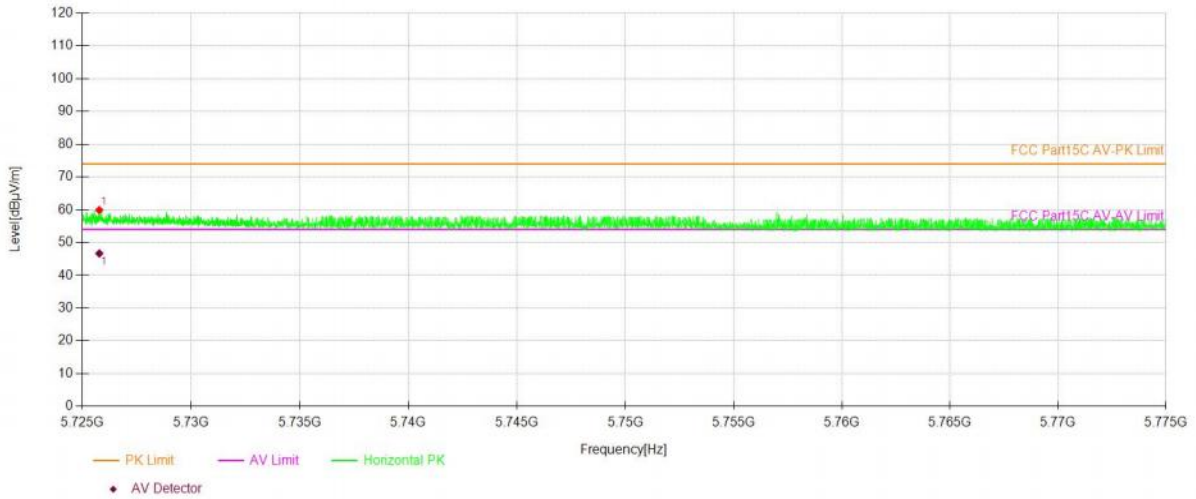
U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 100: 5500MHz	Ant.Pol	H



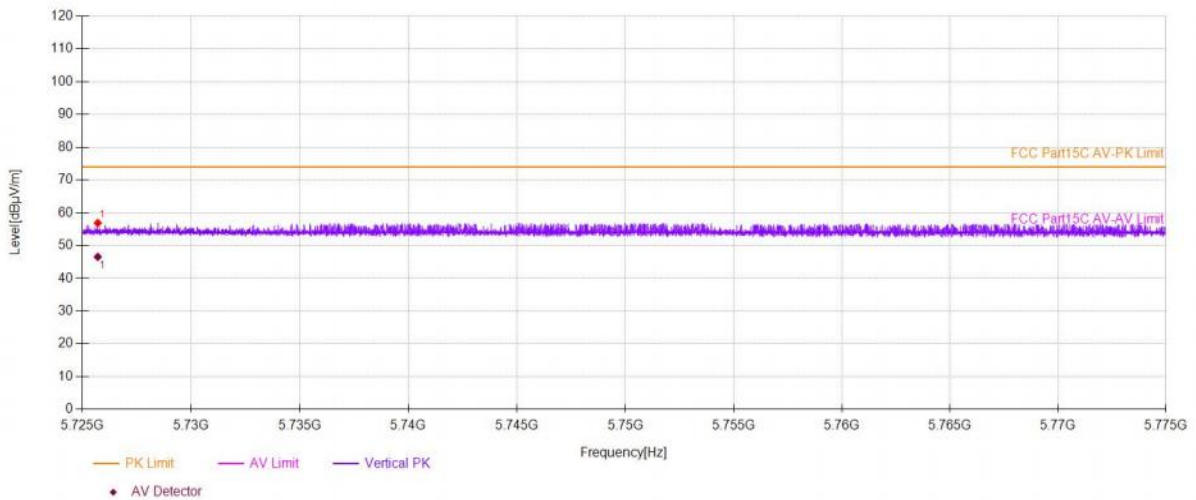
U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 100: 5500MHz	Ant.Pol	V



U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge	
	802.11ac(VHT20)	Channel 140: 5700MHz	Ant.Pol	H



U-NII -2C				
Test Model	Undesirable radiated	Undesirable radiated	Emission in Band Edge	
	802.11ac(VHT20)	Channel 140: 5700MHz	Ant.Pol	V



■ For Undesirable radiated Spurious Emission in U-NII -3

● Undesirable radiated Spurious Emission Above 1GHz(1GHz to 40GHz)

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Test mode:		802.11a		Frequency:		Channel 149: 5745MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
7975.41	V	57.42	-37.81	-27	10.81		
9885.52	V	60.77	-34.46	-27	7.46		
12686.6	V	63.82	-31.41	-27	4.41		
8649.45	H	57.79	-37.44	-27	10.44		
10110.5	H	61.56	-33.67	-27	6.67		
12575.6	H	63.16	-32.07	-27	5.07		

Test mode:		802.11a		Frequency:		Channel 157: 5785MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
8164.42	V	57.23	-38	-27	11		
10014.5	V	60.98	-34.25	-27	7.25		
12573.6	V	63.58	-31.65	-27	4.65		
7980.41	H	56.37	-38.86	-27	11.86		
9938.52	H	61.05	-34.18	-27	7.18		
12574.6	H	63.76	-31.47	-27	4.47		

Test mode:		802.11a		Frequency:		Channel 165: 5825MHz	
Freq. (MHz)	Ant.Pol.	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)		
7972.41	V	56.98	-38.25	-27	11.25		
9999.52	V	60.95	-34.28	-27	7.28		
12589.6	V	62.70	-32.53	-27	5.53		
7804.40	H	56.32	-38.91	-27	11.91		
9865.52	H	61.84	-33.39	-27	6.39		
12610.6	H	62.67	-32.56	-27	5.56		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test mode: 802.11a Frequency: Channel 149: 5745MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7975.41	V	57.42	39.61	74	54	16.58	14.39
9885.52	V	60.77	41.27	74	54	13.23	12.73
12686.6	V	63.82	45.15	74	54	10.18	8.85
8649.45	H	57.79	41.87	74	54	16.21	12.13
10110.5	H	61.56	43.03	74	54	12.44	10.97
12575.6	H	63.16	45.57	74	54	10.84	8.43

Test mode: 802.11a Frequency: Channel 157: 5785MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8164.42	V	57.23	40.66	74	54	16.77	13.34
10014.5	V	60.98	42.12	74	54	13.02	11.88
12573.6	V	63.58	45.45	74	54	10.42	8.55
7980.41	H	56.37	40.07	74	54	17.63	13.93
9938.52	H	61.05	41.82	74	54	12.95	12.18
12574.6	H	63.76	45.80	74	54	10.24	8.20

Test mode:: 802.11a Frequency: Channel 165: 5825MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7972.41	V	56.98	39.26	74	54	17.02	14.74
9999.52	V	60.95	42.29	74	54	13.05	11.71
12589.6	V	62.70	46.12	74	54	11.30	7.88
7804.40	H	56.32	39.19	74	54	17.68	14.81
9865.52	H	61.84	40.81	74	54	12.16	13.19
12610.6	H	62.67	46.28	74	54	11.33	7.72

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

●Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:

Test mode: 802.11ac(VHT20) Frequency: Channel 149: 5745MHz

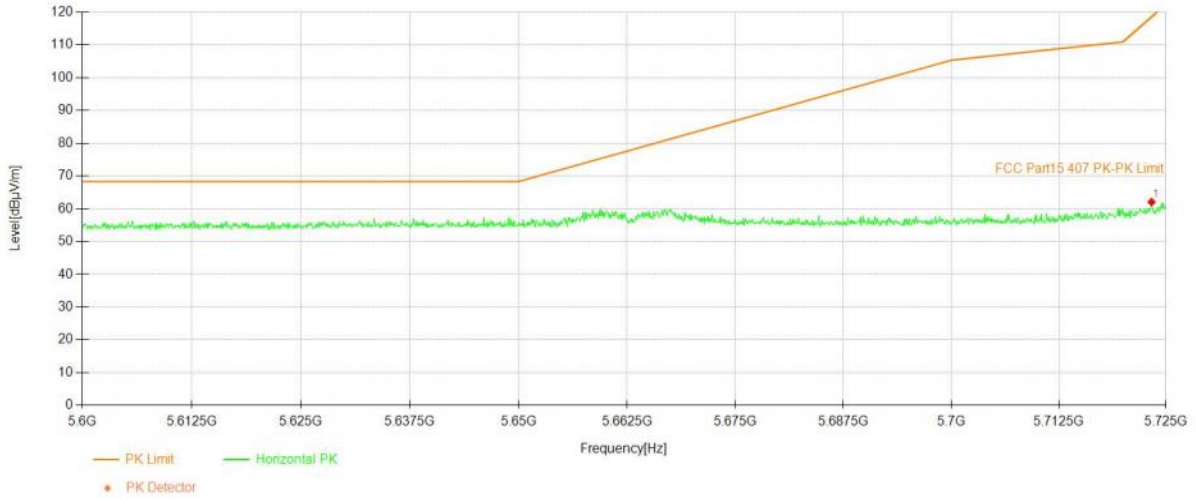
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5723.31	H	62.05	-33.18	23.15	Pass
5724.37	V	58.09	-37.14	25.56	Pass

Test mode: 802.11ac(VHT20) Frequency: Channel 165: 5825MHz

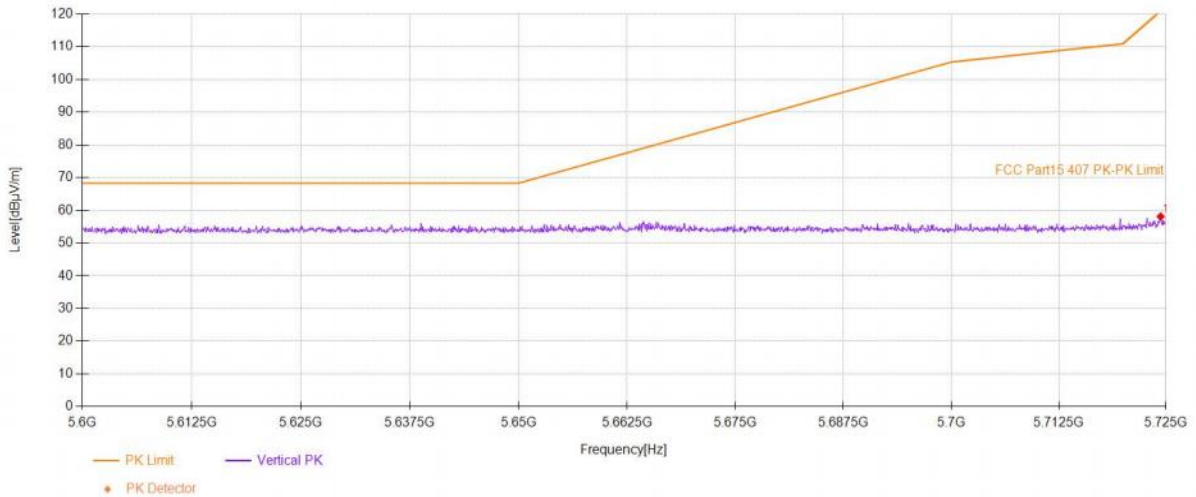
Freq. (MHz)	Ant.Pol.	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5854.94	H	63.17	-32.06	15.74	Pass
5850.93	V	56.66	-38.57	24.88	Pass

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value(VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$
 d is the measurement distance in 3 meters

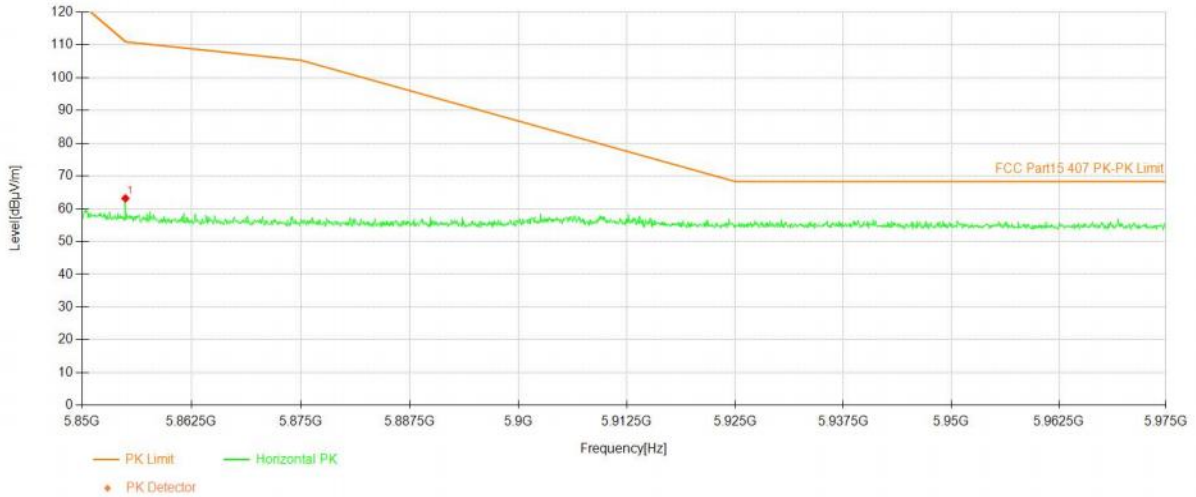
Test Model U-NII-3
Undesirable radiated 802.11ac(VHT20) Undesirable radiated Channel 149: 5745MHz Spurious Emission in Band Edge Ant.Pol H



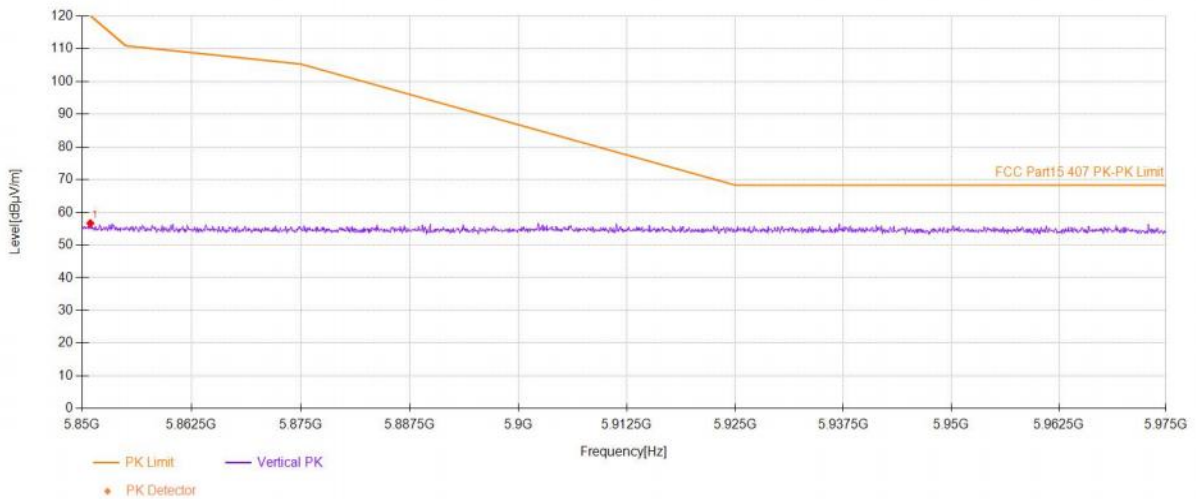
Test Model U-NII-3
Undesirable radiated 802.11ac(VHT20) Undesirable radiated Channel 149: 5745MHz Spurious Emission in Band Edge Ant.Pol V



U-NII-3
Test Model Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge
802.11ac(VHT20) Channel 165: 5825MHz Ant.Pol H

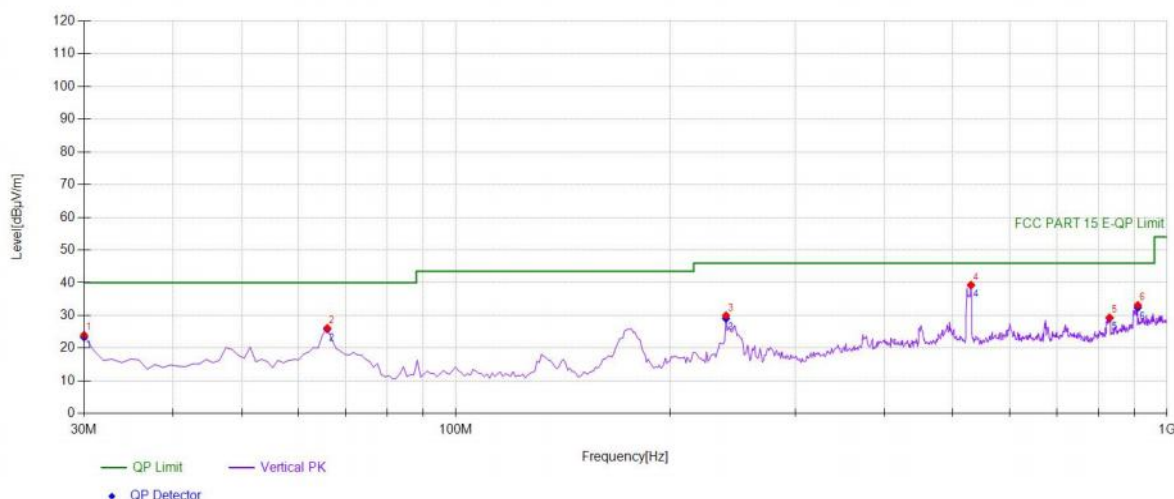


U-NII-3
Test Model Undesirable radiated Undesirable radiatedSpurious Emission in Band Edge
802.11ac(VHT20) Channel 165: 5825MHz Ant.Pol V



- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11a) result recorded was report as below:

Mode:	11A 5180
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Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	30	42.81	-18.80	24.01	PK	40.00	15.99	Vertical
2	65.9259	44.37	-18.24	26.13	PK	40.00	13.87	Vertical
3	239.729	45.72	-15.73	29.99	PK	46.00	16.01	Vertical
4	530.050	48.88	-9.54	39.34	PK	46.00	6.66	Vertical
5	830.080	34.28	-4.94	29.34	PK	46.00	16.66	Vertical
6	909.699	36.33	-3.18	33.15	PK	46.00	12.85	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	30	-18.80	23.37	40.00	16.63
2	65.9259	-18.24	25.85	40.00	14.15
3	239.7297	-15.73	29.07	46.00	16.93
4	530.0501	-9.54	39.26	46.00	6.74
5	830.0801	-4.94	29.26	46.00	16.74
6	909.6997	-3.18	32.43	46.00	13.57

Mode:	11A 5180
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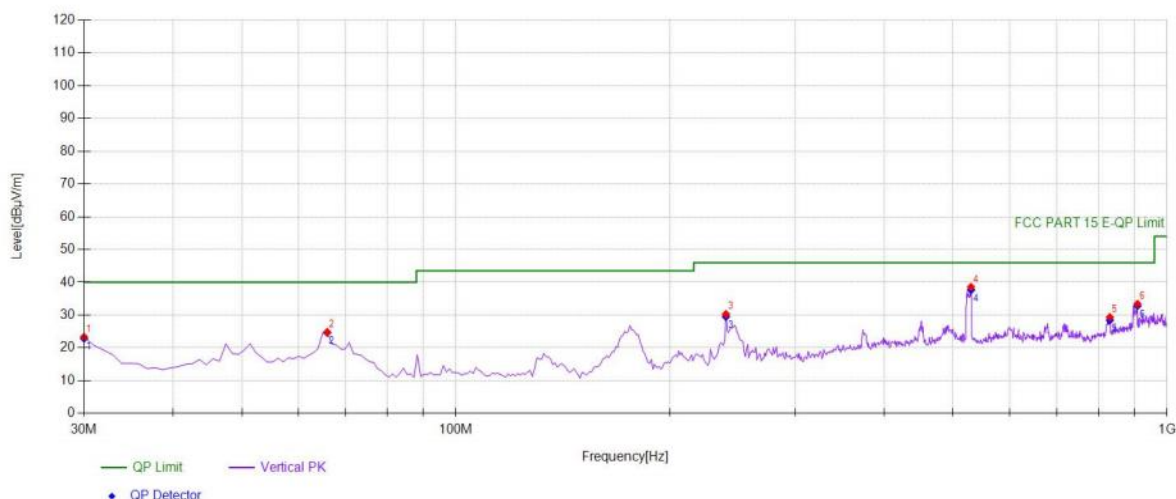
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	203.803	46.58	-17.41	29.17	PK	43.50	14.33	Horizontal
2	239.729	55.75	-15.73	40.02	PK	46.00	5.98	Horizontal
3	373.723	48.39	-11.87	36.52	PK	46.00	9.48	Horizontal
4	530.050	41.12	-9.54	31.58	PK	46.00	14.42	Horizontal
5	822.312	38.84	-5.15	33.69	PK	46.00	12.31	Horizontal
6	904.844	37.19	-3.24	33.95	PK	46.00	12.05	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	203.8038	-17.41	28.34	43.50	15.16
2	239.7297	-15.73	39.19	46.00	6.81
3	373.7237	-11.87	36.05	46.00	9.95
4	530.0501	-9.54	31.46	46.00	14.54
5	822.3123	-5.15	33.41	46.00	12.59
6	904.8448	-3.24	33.03	46.00	12.97

Mode:	11A 5200
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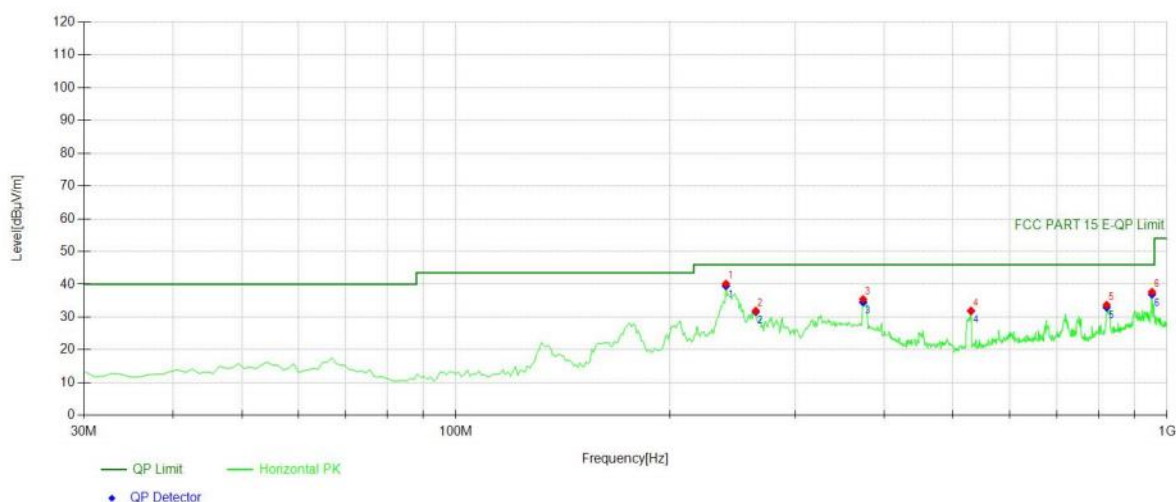
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	30	42.13	-18.80	23.33	PK	40.00	16.67	Vertical
2	65.9259	43.01	-18.24	24.77	PK	40.00	15.23	Vertical
3	239.729	46.01	-15.73	30.28	PK	46.00	15.72	Vertical
4	530.050	48.11	-9.54	38.57	PK	46.00	7.43	Vertical
5	831.051	34.27	-4.91	29.36	PK	46.00	16.64	Vertical
6	908.728	36.58	-3.20	33.38	PK	46.00	12.62	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	30	-18.80	22.86	40.00	17.14
2	65.9259	-18.24	24.66	40.00	15.34
3	239.7297	-15.73	29.52	46.00	16.48
4	530.0501	-9.54	37.65	46.00	8.35
5	831.0511	-4.91	28.44	46.00	17.56
6	908.7287	-3.20	32.82	46.00	13.18

Mode:	11A 5200
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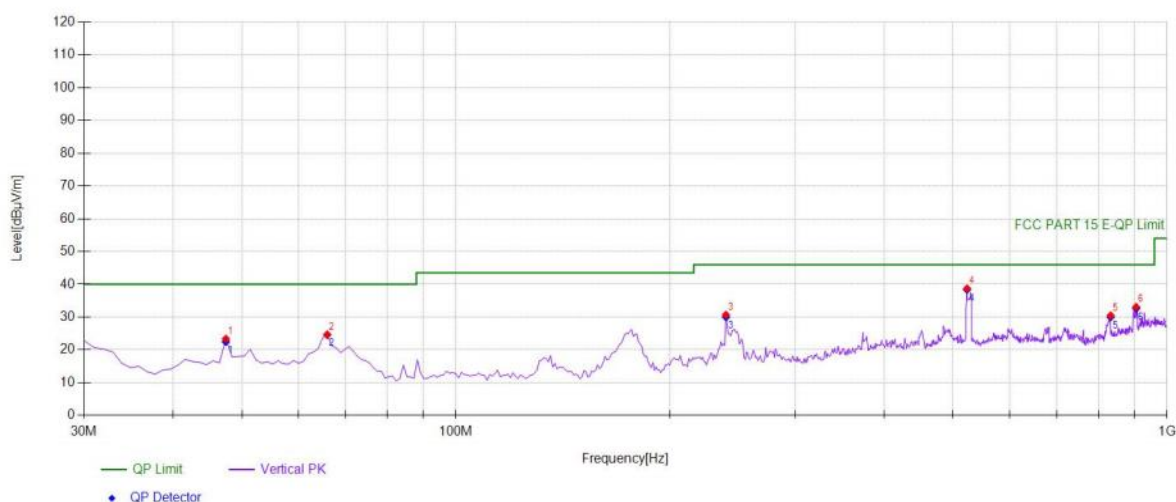
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	239.729	55.88	-15.73	40.15	PK	46.00	5.85	Horizontal
2	264.004	47.61	-15.71	31.90	PK	46.00	14.10	Horizontal
3	373.723	47.34	-11.87	35.47	PK	46.00	10.53	Horizontal
4	530.050	41.47	-9.54	31.93	PK	46.00	14.07	Horizontal
5	822.312	38.86	-5.15	33.71	PK	46.00	12.29	Horizontal
6	952.422	40.52	-2.86	37.66	PK	46.00	8.34	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	239.7297	-15.73	39.50	46.00	6.50
2	264.004	-15.71	31.61	46.00	14.39
3	373.7237	-11.87	34.54	46.00	11.46
4	530.0501	-9.54	31.83	46.00	14.17
5	822.3123	-5.15	32.97	46.00	13.03
6	952.4224	-2.86	36.92	46.00	9.08

Mode:	11A 5240
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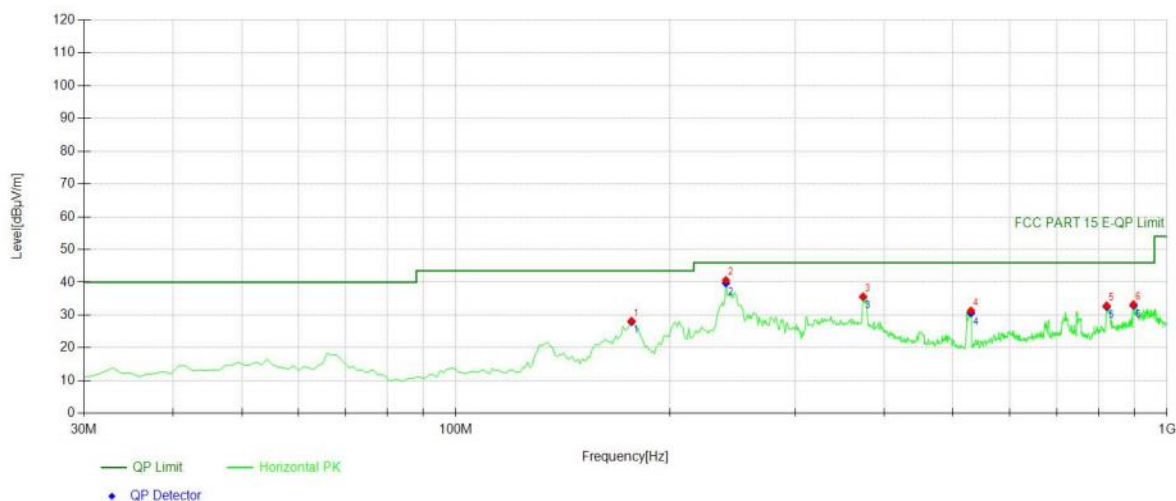
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	39.81	-16.45	23.36	PK	40.00	16.64	Vertical
2	65.9259	42.89	-18.24	24.65	PK	40.00	15.35	Vertical
3	239.729	46.42	-15.73	30.69	PK	46.00	15.31	Vertical
4	523.253	48.38	-9.68	38.70	PK	46.00	7.30	Vertical
5	832.993	35.34	-4.86	30.48	PK	46.00	15.52	Vertical
6	904.844	36.34	-3.24	33.10	PK	46.00	12.90	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-16.45	22.49	40.00	17.51
2	65.9259	-18.24	24.61	40.00	15.39
3	239.7297	-15.73	30.01	46.00	15.99
4	523.2533	-9.68	38.38	46.00	7.62
5	832.993	-4.86	30.00	46.00	16.00
6	904.8448	-3.24	32.62	46.00	13.38

Mode:	11A 5240
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Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	176.616	46.95	-18.75	28.20	PK	43.50	15.30	Horizontal
2	239.729	56.38	-15.73	40.65	PK	46.00	5.35	Horizontal
3	373.723	47.51	-11.87	35.64	PK	46.00	10.36	Horizontal
4	530.050	40.89	-9.54	31.35	PK	46.00	14.65	Horizontal
5	822.312	38.06	-5.15	32.91	PK	46.00	13.09	Horizontal
6	897.077	36.61	-3.35	33.26	PK	46.00	12.74	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	176.6166	-18.75	27.92	43.50	15.58
2	239.7297	-15.73	39.73	46.00	6.27
3	373.7237	-11.87	35.55	46.00	10.45
4	530.0501	-9.54	30.62	46.00	15.38
5	822.3123	-5.15	32.54	46.00	13.46
6	897.0771	-3.35	32.89	46.00	13.11

8.5 POWER LINE CONDUCTED EMISSIONS

8.5.1 Applicable Standard

According to FCC Part 15.207(a)
According to IC RSS-Gen 8.8

8.5.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.5.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

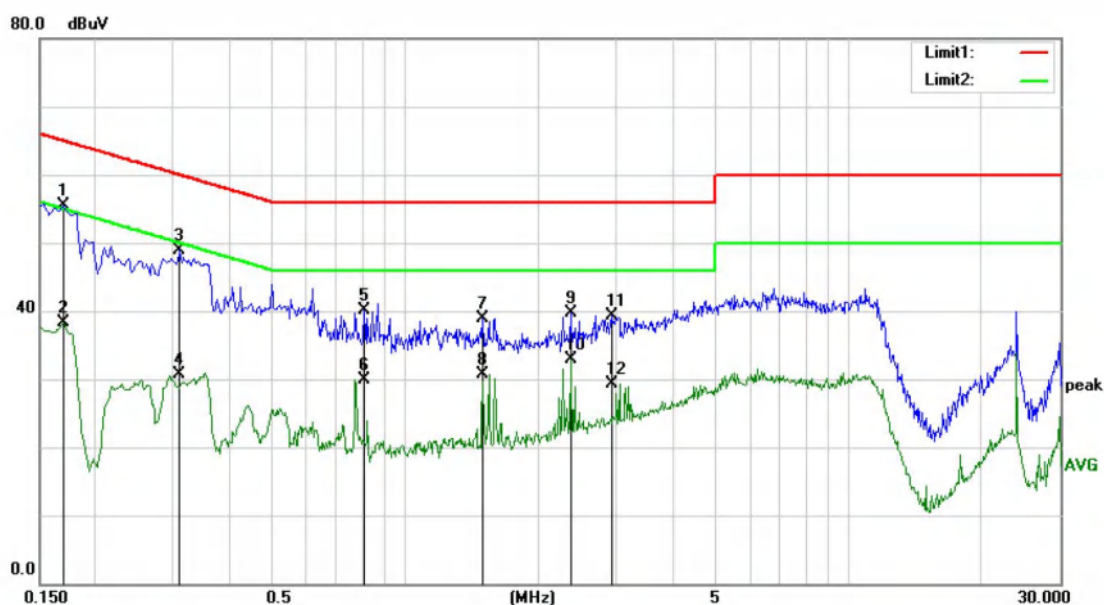
8.5.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

8.5.5 Test Results

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #1

Phase: **N**

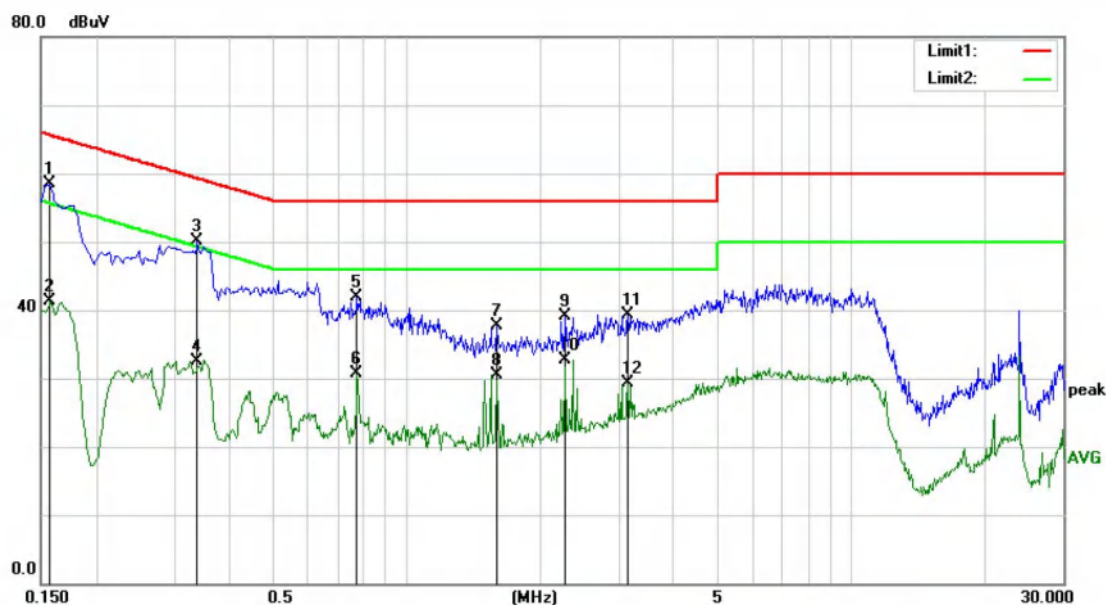
Temperature: 25.5

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1700	45.51	9.92	55.43	64.96	-9.53	QP	
2		0.1700	28.39	9.92	38.31	54.96	-16.65	AVG	
3		0.3100	38.90	9.92	48.82	59.97	-11.15	QP	
4		0.3100	20.73	9.92	30.65	49.97	-19.32	AVG	
5		0.8100	30.16	9.99	40.15	56.00	-15.85	QP	
6		0.8100	19.99	9.99	29.98	46.00	-16.02	AVG	
7		1.4980	28.90	10.03	38.93	56.00	-17.07	QP	
8		1.4980	20.68	10.03	30.71	46.00	-15.29	AVG	
9		2.3700	29.66	10.05	39.71	56.00	-16.29	QP	
10		2.3700	22.76	10.05	32.81	46.00	-13.19	AVG	
11		2.9180	29.33	10.05	39.38	56.00	-16.62	QP	
12		2.9180	19.24	10.05	29.29	46.00	-16.71	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 25.5

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1580	48.52	9.93	58.45	65.57	-7.12	QP	
2		0.1580	31.30	9.93	41.23	55.57	-14.34	AVG	
3		0.3380	40.13	9.91	50.04	59.25	-9.21	QP	
4		0.3380	22.69	9.91	32.60	49.25	-16.65	AVG	
5		0.7740	31.93	9.98	41.91	56.00	-14.09	QP	
6		0.7740	20.70	9.98	30.68	46.00	-15.32	AVG	
7		1.5980	27.63	10.03	37.66	56.00	-18.34	QP	
8		1.5980	20.48	10.03	30.51	46.00	-15.49	AVG	
9		2.2740	28.98	10.05	39.03	56.00	-16.97	QP	
10		2.2740	22.70	10.05	32.75	46.00	-13.25	AVG	
11		3.1420	29.21	10.04	39.25	56.00	-16.75	QP	
12		3.1420	19.29	10.04	29.33	46.00	-16.67	AVG	

8.6 ANTENNA APPLICATION

8.6.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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.
FCC 47 CFR Part15.407(a)	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.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

8.6.2 Result

PASS.

- Note:
- ☒ Antenna use a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached document Internal Photos to show the antenna connector.

----- END OF REPORT -----

9 APPENDIX PHOTOGRAPHS OF EUT

Please refer to the file of External Photo and Internal Photo.



10 APPENDIX PHOTOGRAPHS OF TEST SETUP

Please refer to the file of Test Setup Photo.

