

Radiated Emission Test Data (Above 1 GHz):						
Lowest Channel:						
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4810.00	65.23	74.00	-8.77	Peak	Horizontal
2	4810.00	43.23	54.00	-10.77	Average	Horizontal
3	7215.00	51.50	74.00	-22.50	Peak	Horizontal
4	7215.00	29.50	54.00	-24.50	Average	Horizontal
5	4810.00	64.43	74.00	-9.57	Peak	Vertical
6	4810.00	42.43	54.00	-11.57	Average	Vertical
7	7215.00	50.25	74.00	-23.75	Peak	Vertical
8	7215.00	28.25	54.00	-25.75	Average	Vertical

Middle Channel:						
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4880.00	65.25	74.00	-8.75	Peak	Horizontal
2	4880.00	43.25	54.00	-10.75	Average	Horizontal
3	7320.00	51.04	74.00	-22.96	Peak	Horizontal
4	7320.00	29.04	54.00	-24.96	Average	Horizontal
5	4880.00	63.76	74.00	-10.24	Peak	Vertical
6	4880.00	41.76	54.00	-12.24	Average	Vertical
7	7320.00	50.61	74.00	-23.39	Peak	Vertical
8	7320.00	28.61	54.00	-25.39	Average	Vertical

Highest Channel:						
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4950.00	65.98	74.00	-8.02	Peak	Horizontal
2	4950.00	43.98	54.00	-10.02	Average	Horizontal
3	7425.00	50.79	74.00	-23.21	Peak	Horizontal
4	7425.00	28.79	54.00	-25.21	Average	Horizontal
5	4950.00	66.06	74.00	-7.94	Peak	Vertical
6	4950.00	44.06	54.00	-9.94	Average	Vertical
7	7425.00	47.87	74.00	-26.13	Peak	Vertical
8	7425.00	25.87	54.00	-28.13	Average	Vertical

5.4 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY

Test Requirement: FCC 47 CFR Part 15.209 and 15.205;
RSS-210 Issue 9, Annex B.10; RSS-Gen Issue 4, section 8.9 / 7.1.2

Test Method: ANSI C63.10-2013

Limits:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Frequency	Limit (dB μ V/m @3m)	Remark
30 MHz-88 MHz	40.0	Quasi-peak Value
88 MHz-216 MHz	43.5	Quasi-peak Value
216 MHz-960 MHz	46.0	Quasi-peak Value
960 MHz-1 GHz	54.0	Quasi-peak Value
Above 1 GHz	54.0	Average Value
	74.0	Peak Value

Test Setup: Refer to section 4.4.1 for details.

Test Procedures:

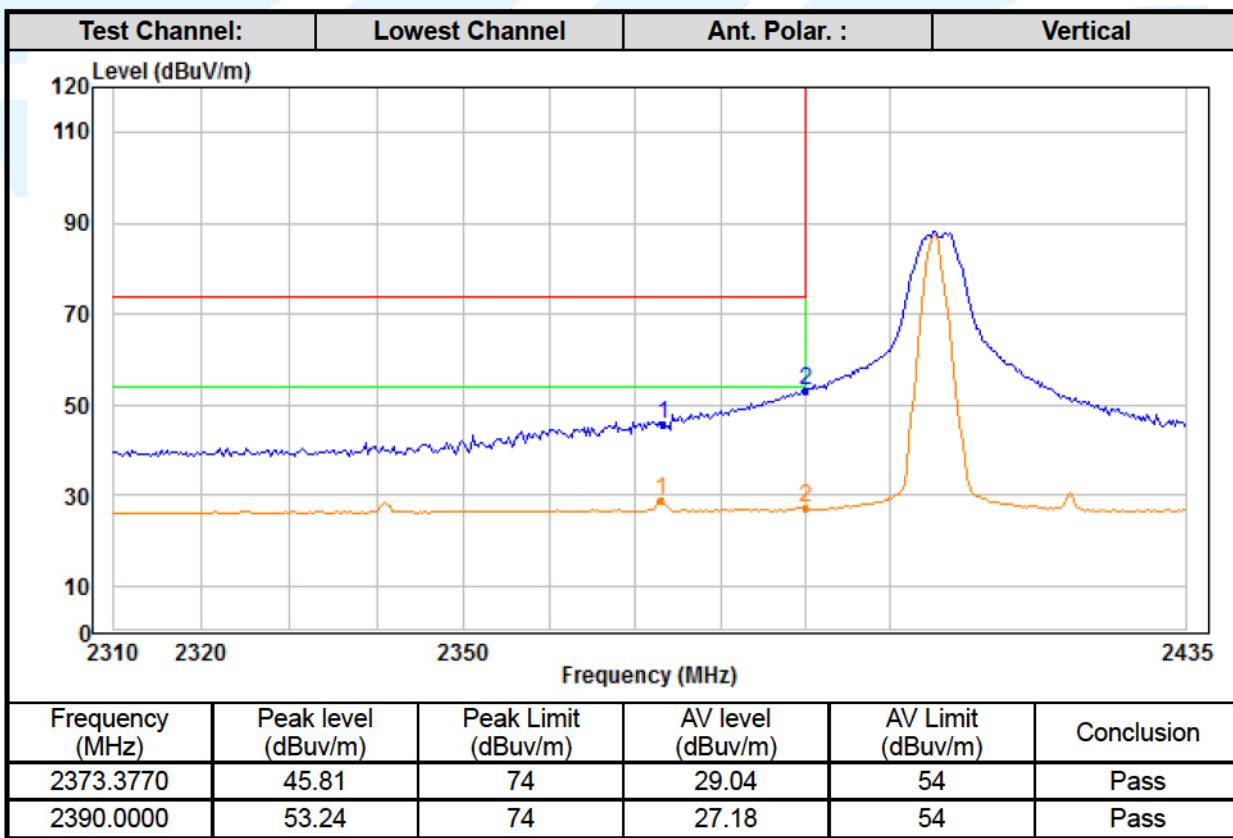
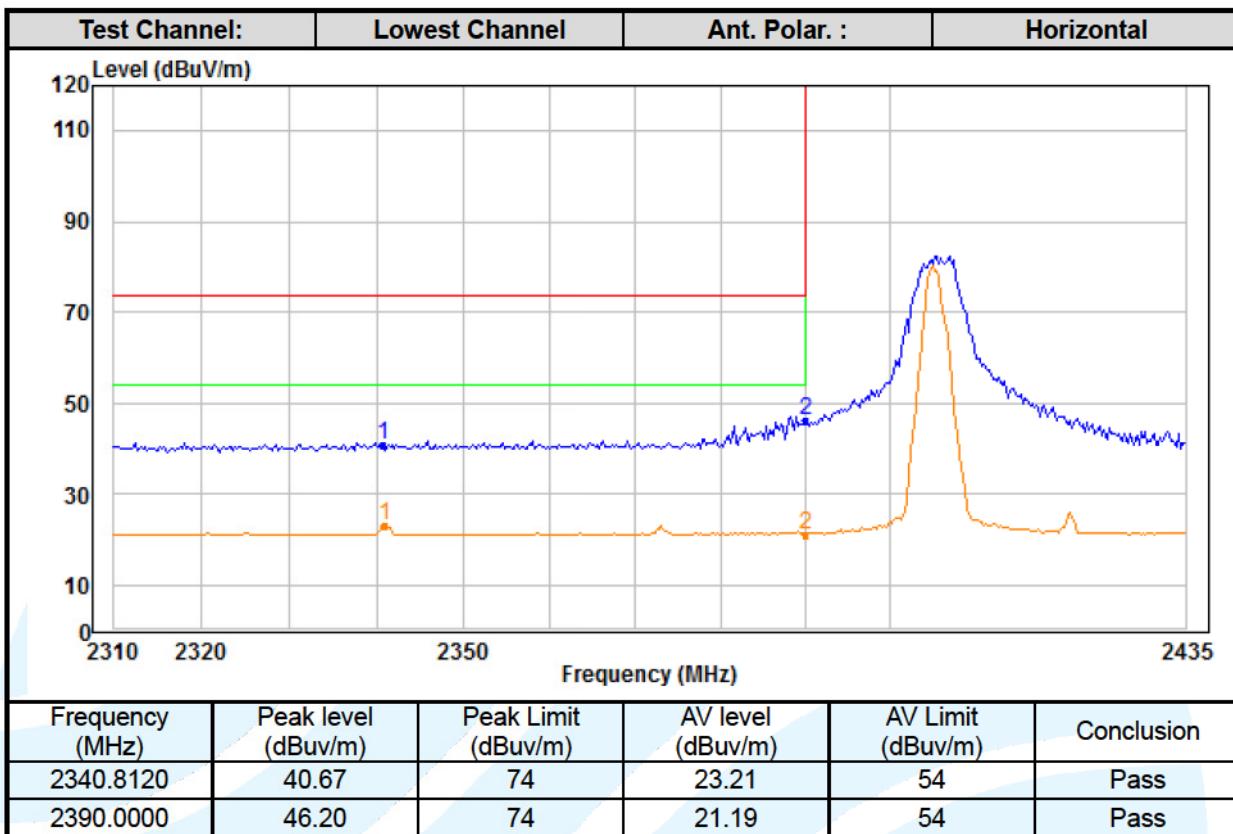
Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

1. Use radiated spurious emission test procedure described in clause 5.3. The transmitter output (antenna port) was connected to the test receiver.
2. Set the PK and AV limit line.
3. Record the fundamental emission and emissions out of the band-edge.
4. Determine band-edge compliance as required.

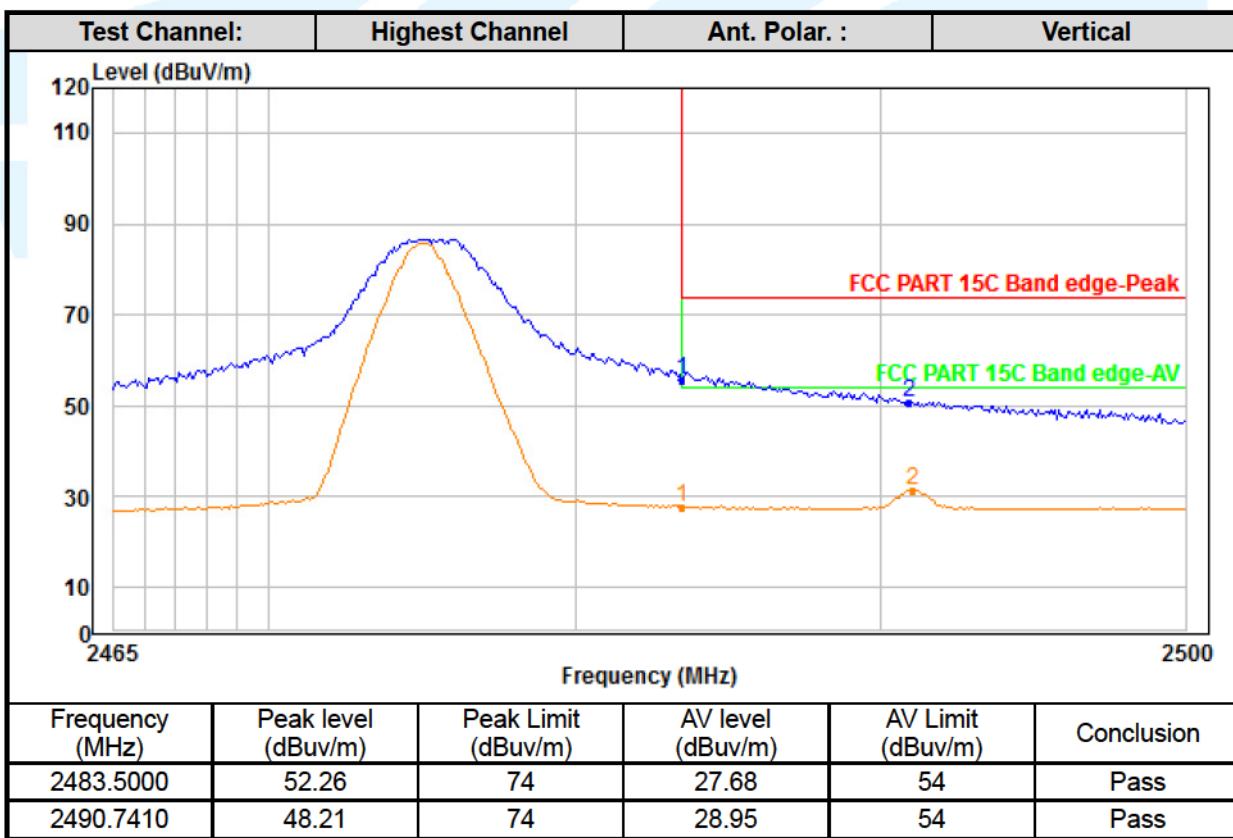
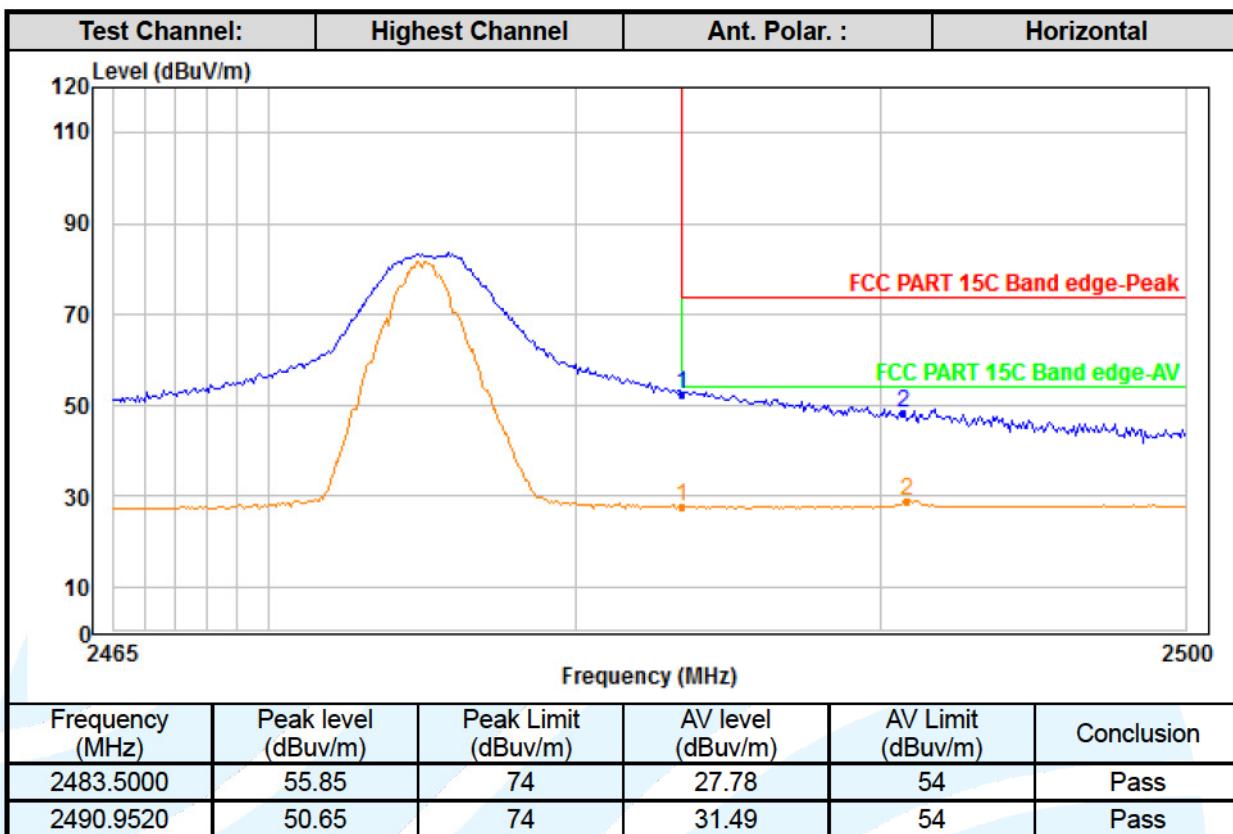
Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:


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5.5 20DB OCCUPIED BANDWIDTH

Test Requirement: FCC 47 CFR Part 15.215;
RSS-Gen Issue 4, section 6.6

Test Method: ANSI C63.10-2013

Test Setup: Refer to section 4.4.3 for details.

Limits: N/A

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement procedure shall be as follows:

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- a) Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
- b) RBW \geq 1% of the 20 dB bandwidth
- c) VBW \geq RBW
- d) Sweep = auto;
- e) Detector function = peak
- f) Trace = max hold
- g) All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down bandwidth of the emission.

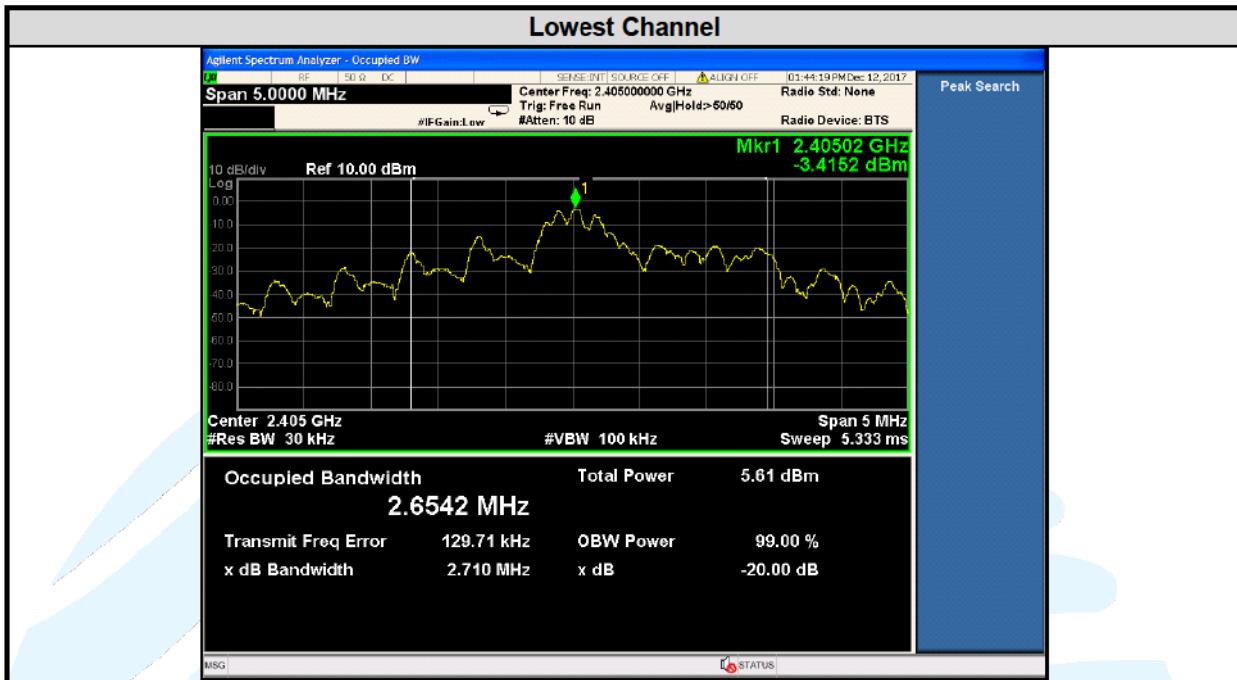
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Result: Pass

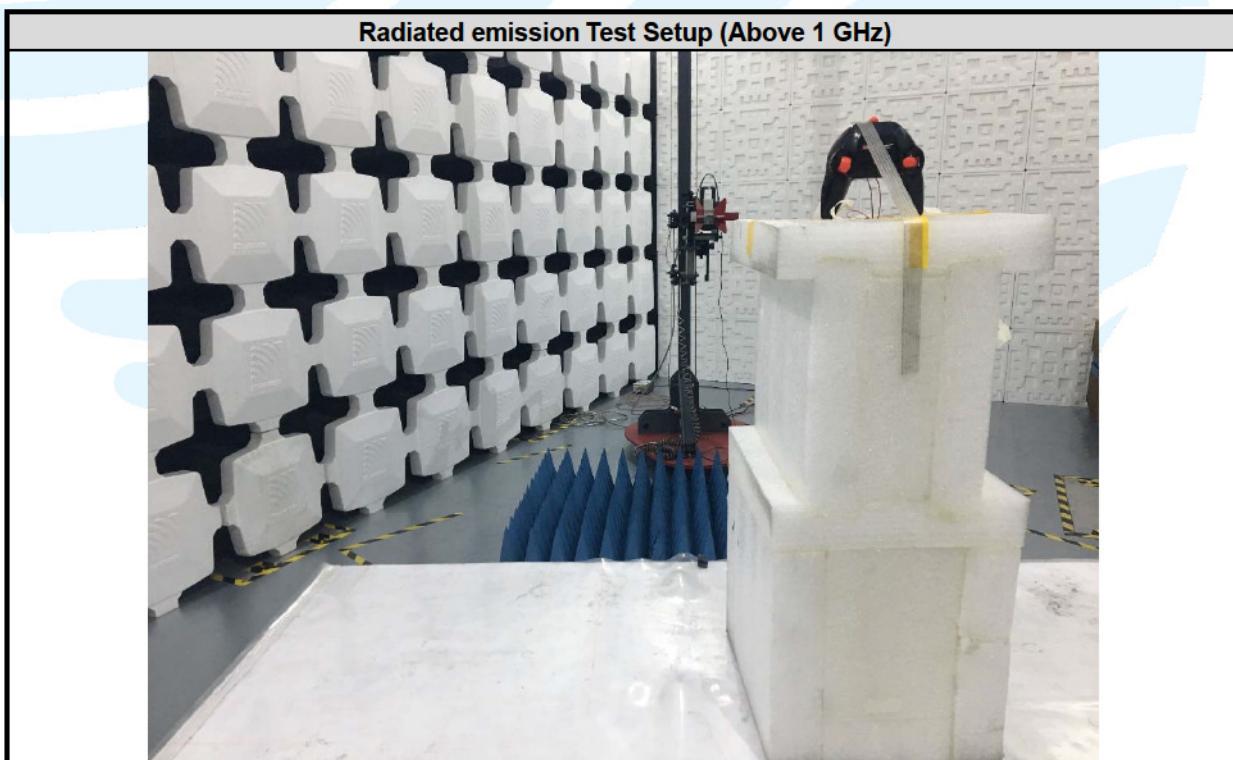
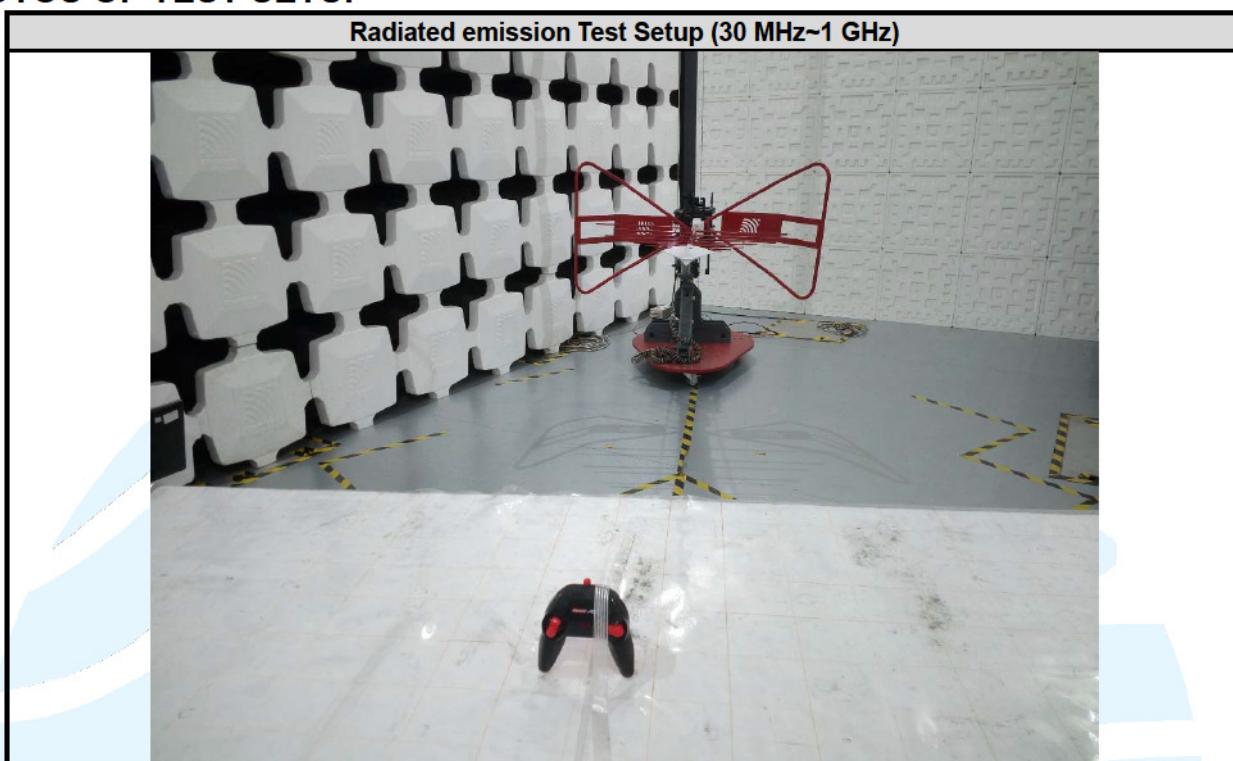
The measurement data as follows:

Test Channel	Occupied Bandwidth(MHz)	20 dB Bandwidth (MHz)
Lowest	2.6542	2.710
Middle	2.1356	1.823
Highest	1.5799	1.612

The test plot as follows:



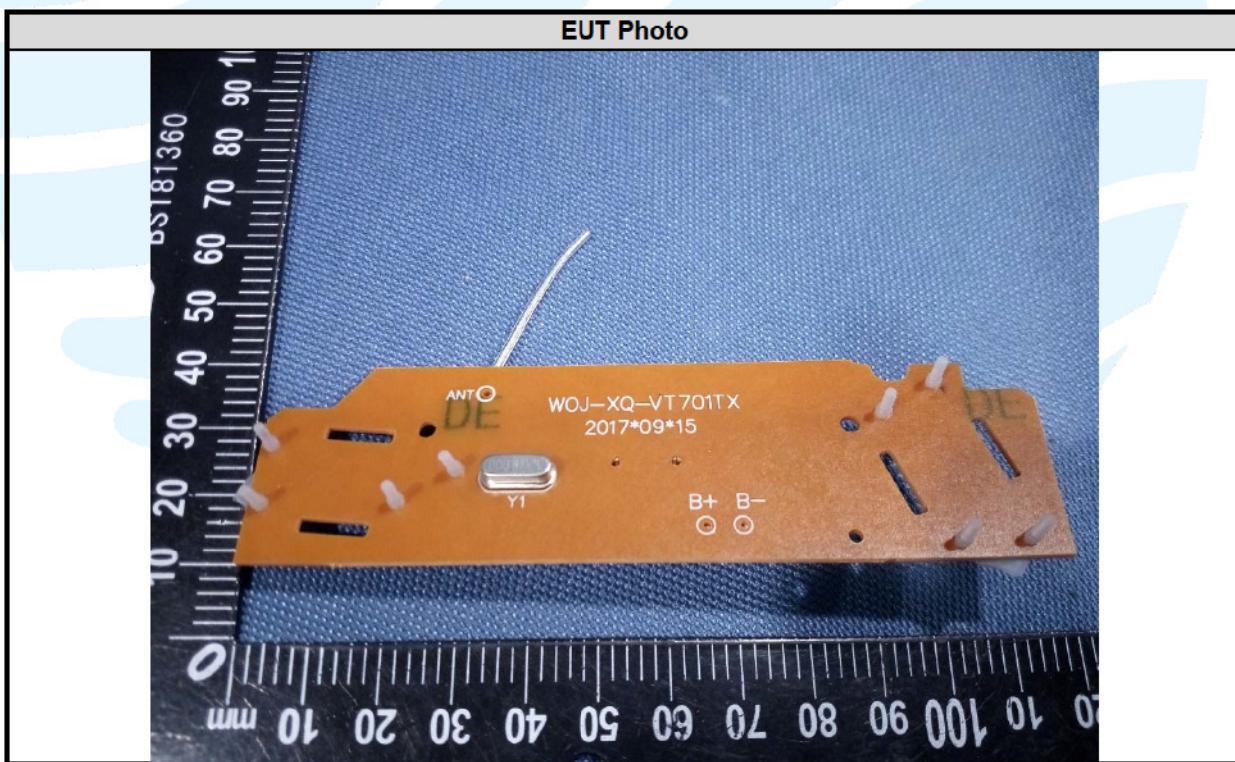
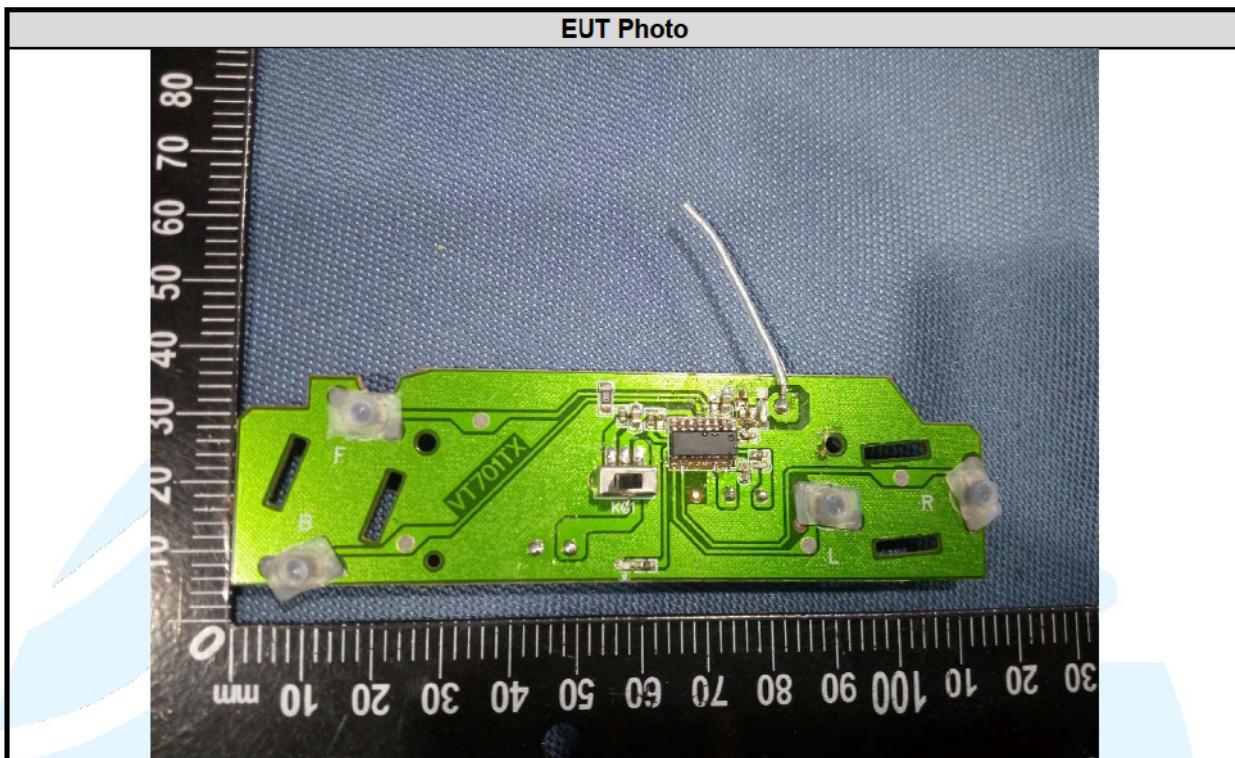


PHOTOS OF TEST SETUP

**PHOTOS OF EUT CONSTRUCTIONAL DETAILS
EUT EXTERNAL PHOTOS****EUT Photo****EUT Photo**

EUT Photo**EUT Photo**

EUT INTERNAL PHOTOS**EUT Photo****EUT Photo**



*** End of Report ***

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