



RADIATED TEST REPORT

FCC CFR 47 Pt 15.407

Report No.: RDWN71-U2 Radiated Rev A

Company: Radwin Ltd.

Model: AP0260210

RADIATED TEST REPORT

FROM



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1. TEST RESULTS

1.1. Radiated

Radiated Test Conditions for Radiated Spurious and Band-Edge Emissions			
Standard:	FCC CFR 47:15.407	Ambient Temp. (°C):	20.0 - 24.5
Test Heading:	Radiated Spurious and Band-Edge Emissions	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.407 (b), 15.205, 15.209	Pressure (mBars):	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Radiated Spurious and Band-Edge Emissions

Radiated emissions for restricted bands above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned.

Measurements on any restricted band frequency or frequencies above 1 GHz are based on the use of measurement instrumentation employing peak and average detectors. All measurements were performed using a resolution bandwidth of 1 MHz.

Test configuration and setup for Undesirable Measurement were per the Radiated Test Set-up specified in this document.

15.407 (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (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.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) 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.
- (7) 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.
- (8) 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.
- (9) The provisions of §15.205 apply to intentional radiators operating under this section.
- (10) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Limits for Restricted Bands (15.205, 15.209)

Peak emission: 74 dBuV/m

Average emission: 54 dBuV/m

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

$$FS = R + AF + CORR - FO$$

where:

FS = Field Strength

R = Measured Spectrum analyzer Input Amplitude

AF = Antenna Factor

CORR = Correction Factor = CL – AG + NFL

CL = Cable Loss

AG = Amplifier Gain

FO = Distance Falloff Factor

NFL = Notch Filter Loss

Example:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength (dBμV/m);

$$E = \frac{1000000 \times \sqrt{30P}}{3} \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz equates to 68.23 dBμV/m

Conversion between dBmV/m (or dBmV) and mV/m (or mV) are as follows:

Level (dBmV/m) = 20 * Log (level (mV/m))

40 dBmV/m = 100 mV/m

48 dBmV/m = 250 mV/m

Restricted Bands of Operation (15.205)

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

Frequency Band			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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
4.17725-4.17775	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	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	Above 38.6
13.36-13.41			

(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

(c) Except as provided in paragraphs (d) and (e) of this section, regardless of the field strength limits specified elsewhere in this subpart, the provisions of this section apply to emissions from any intentional radiator.

(d) The following devices are exempt from the requirements of this section:

(1) Swept frequency field disturbance sensors operating between 1.705 and 37 MHz provided their emissions only sweep through the bands listed in paragraph (a) of this section, the sweep is never stopped with the fundamental emission within the bands listed in paragraph (a) of this section, and the fundamental emission is outside of the bands listed in paragraph (a) of this section more than 99% of the time the device is actively transmitting, without compensation for duty cycle.

(2) Transmitters used to detect buried electronic markers at 101.4 kHz which are employed by telephone companies.

(3) Cable locating equipment operated pursuant to §15.213.

(4) Any equipment operated under the provisions of §15.253, 15.255, and 15.256 in the frequency band 75-85 GHz, or §15.257 of this part.

(5) Biomedical telemetry devices operating under the provisions of §15.242 of this part are not subject to the restricted band 608-614 MHz but are subject to compliance within the other restricted bands.

(6) Transmitters operating under the provisions of subparts D or F of this part.

(7) Devices operated pursuant to §15.225 are exempt from complying with this section for the 13.36-13.41 MHz band only.

(8) Devices operated in the 24.075-24.175 GHz band under §15.245 are exempt from complying with the requirements of this section for the 48.15-48.35 GHz and 72.225-72.525 GHz bands only, and shall not exceed the limits specified in §15.245(b).

(9) Devices operated in the 24.0-24.25 GHz band under §15.249 are exempt from complying with the requirements of this section for the 48.0-48.5 GHz and 72.0-72.75 GHz bands only, and shall not exceed the limits specified in §15.249(a).

(e) Harmonic emissions appearing in the restricted bands above 17.7 GHz from field disturbance sensors operating under the provisions of §15.245 shall not exceed the limits specified in §15.245(b).

1.1.1. TX Spurious & Restricted Band Emissions

1.1.1.1. RADWIN Integrated

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	15	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5183.38	77.04	3.01	-12.18	67.87	Fundamental	Vertical	151	0	--	--	
#2	6906.59	68.60	3.40	-8.09	63.91	Max Peak	Horizontal	162	59	68.2	-4.3	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak limit

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	15.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5206.31	80.23	2.99	-12.40	70.82	Fundamental	Vertical	151	0	--	--	
#2	6946.71	69.06	3.35	-7.80	64.61	Max Peak	Horizontal	171	43	68.2	-3.6	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak limit

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5240.00	Data Rate:	13.00 MBit/s
Power Setting:	16.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5243.24	82.85	3.02	-12.03	73.84	Fundamental	Vertical	151	0	--	--	
#2	6986.66	68.82	3.46	-7.89	64.39	Max Peak	Horizontal	175	44	68.2	-3.8	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak limit

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	17.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5733.21	62.25	3.14	-11.21	54.18	Fundamental	Horizontal	151	0	--	--	
#2	6268.38	53.18	3.36	-9.49	47.05	Peak (NRB)	Vertical	151	8	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5785.00	Data Rate:	13.00 MBit/s
Power Setting:	17.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5790.65	58.78	3.14	-10.87	51.05	Fundamental	Horizontal	151	0	--	--	
#2	6102.56	52.94	3.21	-9.88	46.27	Peak (NRB)	Horizontal	151	0	--	--	Pass
#3	6254.81	56.81	3.27	-9.47	50.61	Peak (NRB)	Horizontal	151	33	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	17.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4866.35	60.98	2.93	-12.53	51.38	Max Peak	Vertical	171	43	68.2	-16.9	Pass
#2	4866.35	46.36	2.93	-12.53	36.76	Max Avg	Vertical	171	43	54.0	-17.2	Pass
#3	5832.77	63.38	3.15	-10.81	55.72	Fundamental	Vertical	151	0	--	--	
#4	6256.58	52.84	3.29	-9.48	46.65	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

1.1.1.2. RADWIN RW-9061-5002

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	11.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5180.08	76.77	2.98	-12.14	67.61	Fundamental	Horizontal	151	0	--	--	
#2	6906.66	67.97	3.40	-8.09	63.28	Max Peak	Horizontal	152	12	68.2	-5.0	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	16.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5211.60	77.94	2.99	-12.36	68.57	Fundamental	Horizontal	100	0	--	--	
#2	6073.34	54.58	3.24	-10.08	47.74	Peak (NRB)	Horizontal	151	4	--	--	Pass
#3	6946.57	70.10	3.35	-7.80	65.65	Max Peak	Horizontal	153	16	68.2	-2.6	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Peak Limit

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5240.00	Data Rate:	13.00 MBit/s
Power Setting:	16.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5238.28	81.97	2.99	-12.11	72.85	Fundamental	Horizontal	100	0	--	--	
#2	6068.38	55.01	3.23	-10.11	48.13	Peak (NRB)	Horizontal	151	0	--	--	Pass
#3	6986.66	70.79	3.46	-7.89	66.36	Max Peak	Horizontal	152	16	68.2	-1.9	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Peak Limit

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	16.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4837.18	61.37	2.81	-12.55	51.63	Max Peak	Vertical	152	354	68.2	-16.6	Pass
#2	4837.18	47.61	2.81	-12.55	37.87	Max Avg	Vertical	152	354	54.0	-16.1	Pass
#3	5733.43	69.84	3.14	-11.21	61.77	Fundamental	Horizontal	151	0	--	--	
#4	6062.09	56.63	3.21	-10.16	49.68	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5785.00	Data Rate:	13.00 MBit/s
Power Setting:	16.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4834.99	62.67	2.83	-12.53	52.97	Max Peak	Vertical	145	2	68.2	-15.3	Pass
#2	4834.99	48.91	2.83	-12.53	39.21	Max Avg	Vertical	145	2	54.0	-14.8	Pass
#3	5792.74	67.40	3.14	-10.82	59.72	Fundamental	Horizontal	151	0	--	--	
#4	6104.76	59.81	3.21	-9.86	53.16	Peak (NRB)	Horizontal	151	0	--	--	Pass
#5	6222.06	58.25	3.32	-9.62	51.95	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	16.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4837.87	66.67	2.81	-12.55	56.93	Max Peak	Vertical	146	28	68.2	-11.3	Pass
#2	4837.87	52.55	2.81	-12.55	42.81	Max Avg	Vertical	146	28	54.0	-11.2	Pass
#3	5836.35	68.25	3.16	-10.78	60.63	Fundamental	Vertical	151	0	--	--	
#4	6076.15	58.17	3.25	-10.05	51.37	Peak (NRB)	Horizontal	151	9	--	--	Pass
#5	6213.25	59.92	3.30	-9.64	53.58	Peak (NRB)	Horizontal	151	9	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

1.1.1.3. RADWIN RW-9613-4960

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	7.5	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5178.86	83.10	2.97	-12.12	73.95	Fundamental	Vertical	151	0	--	--	
#2	6249.85	53.96	3.25	-9.50	47.71	Peak (NRB)	Vertical	148	0	--	--	Pass
#3	6906.68	58.92	3.40	-8.09	54.23	Max Peak	Vertical	122	13	68.2	-14.0	Pass
#4	6906.68	53.39	3.40	-8.09	48.70	Max Avg	Vertical	122	13	54.0	-5.3	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	8.0	Tested By:	MM

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5215.51	87.15	2.98	-12.31	77.82	Fundamental	Vertical	151	0	--	--	
#2	6247.15	52.56	3.25	-9.51	46.30	Peak (NRB)	Vertical	181	0	--	--	Pass
#3	6946.70	57.89	3.35	-7.80	64.44	Max Peak	Vertical	165	3	68.2	-3.8	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak Limit.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5240.00	Data Rate:	13.00 MBit/s
Power Setting:	8.0	Tested By:	MM

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5238.67	88.08	3.00	-12.09	78.99	Fundamental	Vertical	151	0	--	--	
#2	6186.02	55.46	3.28	-9.69	49.05	Peak (NRB)	Vertical	151	28	--	--	Pass
#3	6986.66	69.79	3.46	-7.89	65.36	Max Peak	Vertical	161	2	68.2	-2.9	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet peak limit.

Emission results for Point to Multipoint operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	7.5	Tested By:	MM

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5728.14	68.16	3.16	-11.21	60.11	Fundamental	Vertical	163	3	--	--	
#2	6104.98	55.43	3.21	-9.86	48.78	Peak (NRB)	Vertical	148	3	--	--	Pass
#3	6133.31	56.09	3.31	-9.83	49.57	Peak (NRB)	Vertical	148	3	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Emission results for Point to Multipoint operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5785.00	Data Rate:	13.00 MBit/s
Power Setting:	8.0	Tested By:	MM

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4806.52	62.11	2.86	-12.43	52.54	Max Peak	Vertical	159	0	68.2	-15.7	Pass
#2	4806.52	47.79	2.86	-12.43	38.22	Max Avg	Vertical	159	0	54.0	-15.8	Pass
#3	5792.85	64.89	3.14	-10.82	57.21	Fundamental	Vertical	148	0	--	--	
#4	6217.55	58.71	3.31	-9.63	52.39	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Emission results for Point to Multipoint operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	8.0	Tested By:	MM

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4842.14	65.21	2.84	-12.55	55.50	Max Peak	Horizontal	170	1	68.2	-12.7	Pass
#2	4842.14	50.99	2.84	-12.55	41.28	Max Avg	Horizontal	170	1	54.0	-12.7	Pass
#3	5833.10	69.12	3.15	-10.81	61.46	Fundamental	Vertical	151	0	--	--	
#4	6130.79	58.97	3.29	-9.85	52.41	Peak (NRB)	Vertical	148	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Point to Point Operation RADWIN RW-9613-4960

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	7.5	Tested By:	MM

Test Measurement Results

Limited to Band Edge Measurements- See Point to Multi-Point results

Emission Results for Point to Point Operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5785.00	Data Rate:	13.00 MBit/s
Power Setting:	9.5	Tested By:	MM

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4835.08	62.26	2.82	-12.53	52.55	Max Peak	Horizontal	171	3	68.2	-15.7	Pass
#2	4835.08	48.20	2.82	-12.53	38.49	Max Avg	Horizontal	171	3	54.0	-15.5	Pass
#3	5792.85	66.31	3.14	-10.82	58.63	Fundamental	Vertical	151	0	--	--	
#4	6102.23	59.82	3.21	-9.88	53.15	Peak (NRB)	Vertical	148	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt -Pt operation

Emission Results for Point to Point Operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	9.5	Tested By:	MM

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4837.19	64.96	2.81	-12.55	55.22	Max Peak	Horizontal	159	1	68.2	-13.0	Pass
#2	4837.19	50.98	2.81	-12.55	41.24	Max Avg	Horizontal	159	1	54.0	-12.8	Pass
#3	5836.24	68.41	3.16	-10.78	60.79	Fundamental	Vertical	151	0	--	--	
#4	6100.25	60.22	3.21	-9.91	53.52	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation.

1.1.1.4. RADWIN RW-9622-5001

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	1.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5186.04	68.58	3.04	-12.23	59.39	Fundamental	Vertical	151	0	--	--	
#2	6906.64	72.81	3.40	-8.09	68.12	Max Peak	Vertical	163	5	68.2	-0.1	Pass

Test Notes: EUT Powered by POE. Power reduced to meet Peak limit.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	3.5	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5211.82	83.85	2.99	-12.36	74.48	Fundamental	Vertical	151	3	--	--	
#2	6250.40	51.79	3.25	-9.49	45.55	Peak (NRB)	Vertical	151	0	--	--	Pass
#3	6946.66	70.50	3.35	-7.80	66.05	Max Peak	Vertical	161	5	68.2	-2.2	Pass

Test Notes: EUT Powered by POE. Power reduced to meet Peak limit.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5240.00	Data Rate:	13.00 MBit/s
Power Setting:	5.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5241.62	83.37	3.02	-12.03	74.36	Fundamental	Vertical	151	4	--	--	
#2	6241.14	51.99	3.23	-9.53	45.69	Peak (NRB)	Vertical	151	1	--	--	Pass
#3	6986.68	70.00	3.46	-7.89	65.57	Max Peak	Vertical	161	7	68.2	-2.7	Pass

Test Notes: EUT Powered by POE. Power reduced to meet Peak limit.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	1.5	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5727.92	61.78	3.16	-11.21	53.73	Fundamental	Vertical	151	4	--	--	
#2	6159.89	57.21	3.23	-9.74	50.70	Peak (NRB)	Vertical	148	2	--	--	Pass

Test Notes: EUT Powered by POE. Power reduced to meet Band Edge limit.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5785.00	Data Rate:	13.00 MBit/s
Power Setting:	7.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4776.50	64.73	2.89	-12.46	55.16	Max Peak	Vertical	164	8	68.2	-13.1	Pass
#2	4776.50	50.19	2.89	-12.46	40.62	Max Avg	Vertical	164	8	54.0	-13.4	Pass
#3	5791.31	62.43	3.14	-10.87	54.70	Fundamental	Vertical	151	4	--	--	
#4	6220.31	67.88	3.32	-9.62	61.58	Max Peak	Vertical	158	9	68.2	-6.7	Pass

Test Notes: EUT powered by POE. 5 GHz notch in front of amp to prevent overload

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	5.5	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	4625.16	64.21	2.78	-12.25	54.74	Max Peak	Vertical	162	9	68.2	-13.5	Pass
#2	4625.16	49.11	2.78	-12.25	39.64	Max Avg	Vertical	162	9	54.0	-14.4	Pass
#3	4803.88	63.80	2.85	-12.42	54.23	Max Peak	Horizontal	158	9	68.2	-14.0	Pass
#4	4803.88	49.74	2.85	-12.42	40.17	Max Avg	Horizontal	158	9	54.0	-13.8	Pass
#5	5832.00	60.82	3.15	-10.82	53.15	Fundamental	Horizontal	151	0	--	--	
#6	6161.11	68.21	3.24	-9.73	61.72	Max Peak	Vertical	165	9	68.2	-6.5	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet band edge limit.

1.1.1.5. RADWIN RW-9732-4958

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5184.26	69.61	3.02	-12.20	60.43	Fundamental	Vertical	147	0	--	--	
#2	6906.63	64.36	3.40	-8.09	59.67	Max Peak	Vertical	197	7	68.2	-8.5	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5209.06	72.24	2.99	-12.38	62.85	Fundamental	Vertical	151	0	--	--	
#2	6946.65	68.81	3.35	-7.80	64.36	Max Peak	Horizontal	178	358	68.2	-3.9	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5240.00	Data Rate:	13.00 MBit/s
Power Setting:	-1	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5242.91	73.87	3.02	-12.03	64.86	Fundamental	Horizontal	151	0	--	--	
#2	6986.68	68.83	3.46	-7.89	64.40	Max Peak	Horizontal	178	0	68.2	-3.8	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Emission results for Point to Multipoint operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5727.59	64.01	3.16	-11.21	55.96	Fundamental	Vertical	177	0	--	--	
#2	6275.87	57.87	3.35	-9.48	51.74	Peak (NRB)	Vertical	177	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Emission results for Point to Multipoint operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5785.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5793.07	54.24	3.14	-10.82	46.56	Fundamental	Horizontal	151	0	--	--	

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Emission results for Point to Multipoint operation

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5839.88	58.02	3.17	-10.76	50.43	Fundamental	Horizontal	165	0	--	--	

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

Point to Point Operation RADWIN RW-9732-4958

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	2.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5729.46	59.29	3.16	-11.21	51.24	Fundamental	Vertical	149	0	--	--	
#2	6193.43	65.59	3.27	-9.68	59.18	Max Peak	Vertical	171	2	68.2	-9.1	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation.

Point to Point Operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5785.00	Data Rate:	13.00 MBit/s
Power Setting:	2.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5793.40	56.04	3.14	-10.82	48.36	Fundamental	Horizontal	151	0	--	--	
#2	6216.55	57.39	3.30	-9.63	51.06	Peak (NRB)	Horizontal	174	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation

Point to Point Operation

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	2.0	Tested By:	JMH

Test Measurement Results

1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5832.88	59.99	3.15	-10.81	52.33	Fundamental	Horizontal	153	0	--	--	
#2	6162.65	66.04	3.24	-9.72	59.56	Max Peak	Vertical	183	0	68.2	-8.7	Pass
#3	6162.65	52.00	3.24	-9.72	45.52	Max Avg	Vertical	183	0	54.0	-8.5	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation.

1.1.2. Restricted Edge & Band-Edge Emissions

1.1.2.6. RADWIN Integrated

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5150 - 5250 MHz

RADWIN Integrated		Band-Edge Freq	Limit 74.0dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5180.00	5150.00	69.62	53.57	15.5
40MHz	5190.00	5150.00	66.18	53.93	10.0
80MHz	5210.00	5150.00	66.30	53.47	7.5

5725 MHz Radiated Lower Band-Edge Emissions

RADWIN Integrated		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5735.00	5725.00	66.39	107.39	17
40MHz	5745.00	5725.00	67.79	101.15	17
80MHz	5765.00	5725.00	67.85	75.15	17

5850 MHz Radiated Higher Band-Edge Emissions

RADWIN Integrated		Band-Edge Freq	Limit 122.2dBμV/m	Limit 68.3dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5840.00	5850.00	101.31	65.53	17
40MHz	5830.00	5850.00	98.20	65.12	17
80MHz	5810.00	5850.00	74.91	64.58	17

Click on the links to view the data.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	15.5	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	16.43	2.93	34.21	53.57	Max Avg	Vertical	168	46	54.0	-0.4	Pass
#2	5150.00	32.48	2.93	34.21	69.62	Max Peak	Vertical	168	46	74.0	-4.4	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 0.32 added to average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	40MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5190.00	Data Rate:	13.00 MBit/s
Power Setting:	10.0	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	16.19	2.93	34.21	53.93	Max Avg	Vertical	168	46	54.0	-0.1	Pass
#2	5150.00	29.04	2.93	34.21	66.18	Max Peak	Vertical	168	46	74.0	-7.8	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 0.60 added to average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	80MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	7.5	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	16.33	2.93	34.21	53.47	Max Avg	Vertical	168	46	54.0	-0.5	Pass
#2	5150.00	29.16	2.93	34.21	66.30	Max Peak	Vertical	168	46	74.0	-7.7	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 1.4 added to average measurement.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	17	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5646.82	28.68	3.08	34.63	66.39	Max Peak	Vertical	165	45	68.2	-1.8	Pass
#2	5725.00	69.48	3.19	34.72	107.39	Max Peak	Vertical	165	45	122.2	-14.8	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	40MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5745.00	Data Rate:	13.00 MBit/s
Power Setting:	17	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5619.77	30.02	3.12	34.65	67.79	Max Peak	Vertical	165	45	68.2	-0.4	Pass
#2	5725.00	63.24	3.19	34.72	101.15	Max Peak	Vertical	165	45	122.2	-21.1	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	80MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5765.00	Data Rate:	13.00 MBit/s
Power Setting:	17	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5621.21	30.09	3.12	34.64	67.85	Max Avg	Horizontal	165	45	68.2	-0.4	Pass
#2	5669.09	37.29	3.21	34.65	75.15	Max Avg	Horizontal	165	45	82.3	-7.1	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	17	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	63.11	3.24	34.96	101.31	Max Peak	Vertical	165	45	122.2	-20.9	Pass
#3	5966.47	27.20	3.17	35.16	65.53	Max Peak	Vertical	165	45	68.2	-2.7	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	40MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5830.00	Data Rate:	13.00 MBit/s
Power Setting:	17	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	60.00	3.24	34.96	98.20	Max Peak	Vertical	165	45	122.2	-24.0	Pass
#3	5933.29	26.80	3.21	35.11	65.12	Max Peak	Vertical	165	45	68.2	-3.1	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN Integrated	Variant:	80MHz
Antenna Gain (dBi):	16.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5810.00	Data Rate:	13.00 MBit/s
Power Setting:	17	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#2	5906.23	36.57	3.24	35.10	74.91	Max Peak	Vertical	165	45	81.5	-6.6	Pass
#3	5970.16	26.24	3.17	35.17	64.58	Max Peak	Vertical	165	45	68.2	-3.7	Pass
#1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

1.1.2.7. RADWIN RW-9061-5002

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5150 - 5250 MHz

RADWIN RW-9061-5002		Band-Edge Freq	Limit 74.0dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5180.00	5150.00	69.11	53.84	11.0
40MHz	5190.00	5150.00	66.72	53.57	5.5
80MHz	5210.00	5150.00	67.92	53.93	3.5

5725 MHz Radiated Lower Band-Edge Emissions

RADWIN RW-9061-5002		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5735.00	5725.00	67.55	111.88	16
40MHz	5745.00	5725.00	67.35	103.09	14.5
80MHz	5765.00	5725.00	67.55	76.56	13.5

5850 MHz Radiated Higher Band-Edge Emissions

RADWIN RW-9061-5002		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5840.00	5850.00	67.72	107.64	16
40MHz	5830.00	5850.00	68.01	102.04	16
80MHz	5810.00	5850.00	66.69	70.88	14

Click on the links to view the data.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	11.0	Tested By:	MM

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	16.70	2.93	34.21	53.84	Max Avg	Horizontal	163	16	54.0	-0.2	Pass
#2	5150.00	31.97	2.93	34.21	69.11	Max Peak	Horizontal	163	16	74.0	-4.9	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 0.32 for average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	40MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5190.00	Data Rate:	13.00 MBit/s
Power Setting:	5.5	Tested By:	MM

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	16.43	2.93	34.21	53.57	Max Avg	Horizontal	163	16	54.0	-0.4	Pass
#2	5150.00	29.58	2.93	34.21	66.72	Max Peak	Horizontal	163	16	74.0	-7.3	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 0.6 for average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	80MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	3.5	Tested By:	MM

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5134.97	30.75	2.99	34.18	67.92	Max Peak	Horizontal	163	16	74.0	-6.1	Pass
#2	5150.00	16.79	2.93	34.21	53.93	Max Avg	Horizontal	163	16	54.0	-0.1	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 1.4 for average measurement.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	16	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5606.42	29.82	3.08	34.65	67.55	Max Peak	Horizontal	167	6	68.2	-0.7	Pass
#2	5725.00	73.97	3.19	34.72	111.88	Max Peak	Horizontal	167	6	122.2	-10.3	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	40MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5745.00	Data Rate:	13.00 MBit/s
Power Setting:	14.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5601.01	29.59	3.11	34.65	67.35	Max Peak	Horizontal	167	6	68.2	-0.9	Pass
#2	5725.00	65.18	3.19	34.72	103.09	Max Peak	Horizontal	167	6	122.2	-19.1	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	80MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5765.00	Data Rate:	13.00 MBit/s
Power Setting:	13.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5637.08	29.80	3.11	34.64	67.55	Max Peak	Horizontal	167	6	68.2	-0.7	Pass
#2	5669.09	38.70	3.21	34.65	76.56	Max Peak	Horizontal	167	6	82.3	-5.7	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	16	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	69.44	3.24	34.96	107.64	Max Peak	Horizontal	167	6	122.2	-14.6	Pass
#3	5981.22	29.32	3.21	35.19	67.72	Max Peak	Horizontal	167	6	68.2	-0.5	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	40MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5830.00	Data Rate:	13.00 MBit/s
Power Setting:	16	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	63.84	3.24	34.96	102.04	Max Peak	Horizontal	167	6	122.2	-20.2	Pass
#3	5925.33	29.73	3.17	35.11	68.01	Max Peak	Horizontal	167	6	68.2	-0.2	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9061-5002	Variant:	80MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5810.00	Data Rate:	13.00 MBit/s
Power Setting:	14	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#2	5920.06	32.61	3.16	35.11	70.88	Max Peak	Horizontal	167	6	71.8	-0.9	Pass
#3	5934.21	28.36	3.22	35.11	66.69	Max Peak	Horizontal	167	6	68.2	-1.5	Pass
#1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

1.1.2.8. RADWIN RW-9613-4960

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5150 - 5250 MHz

RADWIN RW-9613-4960		Band-Edge Freq	Limit 74.0dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5180.00	5150.00	69.33	53.43	7.5
40MHz	5190.00	5150.00	67.68	53.85	2.5
80MHz	5210.00	5150.00	70.44	52.98	-3.0

5725 MHz Radiated Lower Band-Edge Emissions

RADWIN RW-9613-4960		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5735.00	5725.00	67.21	110.48	7.5
40MHz	5745.00	5725.00	67.06	102.55	6.0
80MHz	5765.00	5725.00	67.26	98.11	6.0

5850 MHz Radiated Higher Band-Edge Emissions

RADWIN RW-9613-4960		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5840.00	5850.00	67.83	107.97	8.0
40MHz	5830.00	5850.00	67.55	102.91	8.0
80MHz	5810.00	5850.00	67.70	69.70	7.0

Click on the links to view the data.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	7.5	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	16.29	2.93	34.21	53.43	Max Avg	Vertical	162	1	54.0	-0.6	Pass
#2	5150.00	32.19	2.93	34.21	69.33	Max Peak	Vertical	162	1	74.0	-4.7	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 0.32 dB added to average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	40MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5190.00	Data Rate:	13.00 MBit/s
Power Setting:	2.5	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5148.50	30.56	2.91	34.21	67.68	Max Peak	Vertical	162	1	74.0	-6.3	Pass
#2	5150.00	16.71	2.93	34.21	53.85	Max Avg	Vertical	162	1	54.0	-0.2	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 0.6 added to average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	80MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	-3.0	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5136.47	33.25	3.00	34.19	70.44	Max Peak	Vertical	162	1	74.0	-3.6	Pass
#2	5150.00	15.84	2.93	34.21	52.98	Max Avg	Vertical	162	1	54.0	-1.0	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 1.4 added to average measurement.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	7.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5605.70	29.48	3.08	34.65	67.21	Max Peak	Vertical	160	2	68.2	-1.0	Pass
#2	5725.00	72.57	3.19	34.72	110.48	Max Peak	Vertical	160	2	122.2	-11.7	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	40MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5745.00	Data Rate:	13.00 MBit/s
Power Setting:	6.0	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5621.93	29.30	3.12	34.64	67.06	Max Peak	Vertical	160	2	68.2	-1.2	Pass
#2	5725.00	64.64	3.19	34.72	102.55	Max Peak	Vertical	160	2	122.2	-19.7	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	80MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5765.00	Data Rate:	13.00 MBit/s
Power Setting:	6.0	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5623.02	29.50	3.12	34.64	67.26	Max Peak	Vertical	160	2	68.2	-1.0	Pass
#2	5725.00	60.20	3.19	34.72	98.11	Max Peak	Vertical	160	2	122.2	-24.1	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	8.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	69.77	3.24	34.96	107.97	Max Peak	Vertical	160	2	122.2	-14.3	Pass
#3	5942.51	29.55	3.16	35.12	67.83	Max Peak	Vertical	160	2	68.2	-0.4	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	40MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5830.00	Data Rate:	13.00 MBit/s
Power Setting:	8.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	64.71	3.24	34.96	102.91	Max Peak	Vertical	160	2	122.2	-19.3	Pass
#3	5968.32	29.22	3.17	35.16	67.55	Max Peak	Vertical	160	2	68.2	-0.7	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	80MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5810.00	Data Rate:	13.00 MBit/s
Power Setting:	7.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#2	5916.83	31.43	3.16	35.11	69.70	Max Peak	Vertical	160	2	74.6	-4.9	Pass
#3	5926.71	29.37	3.18	35.11	67.66	Max Peak	Vertical	160	2	68.2	-0.6	Pass
#1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

RADWIN RW-9613-4960 Point to Point Operation

5150 - 5250 MHz

Band Edge Power limited to Multipoint power levels already at Limit.

5725 MHz Radiated Lower Band-Edge Emissions

Band Edge Power limited to Multipoint power levels already at Limit.

5850 MHz Radiated Higher Band-Edge Emissions

RADWIN RW-9613-4960		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5840.00	5850.00	67.61	109.67	9.5
40MHz	5830.00	5850.00	67.38	104.18	9.5
80MHz	5810.00	5850.00	---	---	7.0*

* Band Edge Power limited to Multipoint power levels already at Limit.

Click on the links to view the data.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	20MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	9.5	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	71.47	3.24	34.96	109.67	Max Peak	Vertical	160	2	122.2	-12.6	Pass
#3	5989.98	29.15	3.25	35.21	67.61	Max Peak	Vertical	160	2	68.2	-0.6	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9613-4960	Variant:	40MHz
Antenna Gain (dBi):	22.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5830.00	Data Rate:	13.00 MBit/s
Power Setting:	9.5	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5850.00	65.98	3.24	34.96	104.18	Max Peak	Vertical	160	2	122.2	-18.1	Pass
#3	5955.87	29.04	3.21	35.13	67.38	Max Peak	Vertical	160	2	68.2	-0.9	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

1.1.2.9. RADWIN RW-9622-5001

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5150 - 5250 MHz

RADWIN RW-9622-5001		Band-Edge Freq	Limit 74.0dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5180.00	5150.00	64.83	52.21	4
40MHz	5190.00	5150.00	66.77	53.23	2.5
80MHz	5210.00	5150.00	71.62	52.47	-5.0

5725 MHz Radiated Lower Band-Edge Emissions

RADWIN RW-9622-5001		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5735.00	5725.00	66.16	109.20	1.5
40MHz	5745.00	5725.00	66.56	101.84	0.5
80MHz	5765.00	5725.00	67.53	101.06	0.5

5850 MHz Radiated Higher Band-Edge Emissions

RADWIN RW-9622-5001		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5840.00	5850.00	67.20	108.17	4.5
40MHz	5830.00	5850.00	66.91	101.88	5.5
80MHz	5810.00	5850.00	67.48	78.90	4.5

Click on the links to view the data.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	4	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	15.07	2.93	34.21	52.21	Max Avg	Vertical	162	6	54.0	-1.8	Pass
#2	5150.00	27.69	2.93	34.21	64.83	Max Peak	Vertical	162	6	74.0	-9.2	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit. DCCF of 0.3 dB added to average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	40MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5190.00	Data Rate:	13.00 MBit/s
Power Setting:	2.5	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	16.09	2.93	34.21	53.23	Max Avg	Vertical	162	6	54.0	-0.8	Pass
#2	5150.00	29.63	2.93	34.21	66.77	Max Peak	Vertical	162	6	74.0	-7.2	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit. DCCF of 0.6 dB added to average measurement

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	80MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	-5.0	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5148.50	34.50	2.91	34.21	71.62	Max Peak	Vertical	162	6	74.0	-2.4	Pass
#2	5150.00	15.33	2.93	34.21	52.47	Max Avg	Vertical	162	6	54.0	-1.5	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit. DCCF of 1.4 dB added to average measurement

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	1.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5632.10	28.40	3.12	34.64	66.16	Max Peak	Vertical	161	5	68.2	-2.1	Pass
#2	5725.00	71.29	3.19	34.72	109.20	Max Peak	Vertical	161	5	122.2	-13.0	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	40MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5745.00	Data Rate:	13.00 MBit/s
Power Setting:	0.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5626.98	28.80	3.12	34.64	66.56	Max Peak	Vertical	161	5	68.2	-1.7	Pass
#2	5725.00	63.93	3.19	34.72	101.84	Max Peak	Vertical	161	5	122.2	-20.4	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	80MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5765.00	Data Rate:	13.00 MBit/s
Power Setting:	0.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5616.52	29.77	3.11	34.65	67.53	Max Avg	Vertical	161	5	68.2	-0.7	Pass
#2	5725.00	63.15	3.19	34.72	101.06	Max Peak	Vertical	161	5	122.2	-21.1	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	20MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	4.5	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	69.97	3.24	34.96	108.17	Max Peak	Vertical	161	5	122.2	-14.1	Pass
#3	5982.14	28.80	3.21	35.19	67.20	Max Peak	Vertical	161	5	68.2	-1.0	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	40MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5830.00	Data Rate:	13.00 MBit/s
Power Setting:	5.5	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	63.68	3.24	34.96	101.88	Max Peak	Vertical	161	5	122.2	-20.4	Pass
#3	5985.37	28.48	3.23	35.20	66.91	Max Peak	Vertical	161	5	68.2	-1.3	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9622-5001	Variant:	80MHz
Antenna Gain (dBi):	27.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5810.00	Data Rate:	13.00 MBit/s
Power Setting:	4.5	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#2	5905.77	40.56	3.24	35.10	78.90	Max Peak	Vertical	0	0	82.3	-3.4	Pass
#3	5934.67	29.15	3.22	35.11	67.48	Max Avg	Vertical	0	0	68.2	-0.8	Pass
#1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

1.1.2.10. RADWIN RW-9732-4958

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5150 - 5250 MHz

RADWIN RW-9732-4958		Band-Edge Freq	Limit 74.0dBμV/m	Limit 54.0dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5180.00	5150.00	63.55	50.95	-1.0
40MHz	5190.00	5150.00	66.58	53.12	-1.0
80MHz	5210.00	5150.00	55.77	45.02	-4.0

5725 MHz Radiated Lower Band-Edge Emissions

RADWIN RW-9732-4958		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5735.00	5725.00	66.56	105.22	-1.0
40MHz	5745.00	5725.00	66.89	99.78	-1.0
80MHz	5765.00	5725.00	67.09	95.49	-1.0

5850 MHz Radiated Higher Band-Edge Emissions

RADWIN RW-9732-4958		Band-Edge Freq	Limit 68.2dBμV/m	Limit 122.2dBμV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBμV/m	dBμV/m	
20MHz	5840.00	5850.00	66.62	104.62	-1.0
40MHz	5830.00	5850.00	66.48	98.87	-1.0
80MHz	5810.00	5850.00	66.79	77.34	-1.0

Click on the links to view the data.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	-1	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	13.81	2.93	34.21	50.95	Max Avg	Vertical	169	358	54.0	-3.1	Pass
#2	5150.00	26.41	2.93	34.21	63.55	Max Peak	Vertical	169	358	74.0	-10.5	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 0.32 dB added to average measurement

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	40MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5190.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5150.00	15.98	2.93	34.21	53.12	Max Avg	Vertical	169	358	54.0	-0.9	Pass
#2	5150.00	29.44	2.93	34.21	66.58	Max Peak	Vertical	169	358	74.00	--7.42	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 0.6 dB added to average measurement.

Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	80MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5210.00	Data Rate:	13.00 MBit/s
Power Setting:	-4.0	Tested By:	JMH

Test Measurement Results

4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5134.97	33.01	2.99	34.18	70.18	Max Peak	Vertical	169	358	74.0	-3.8	Pass
#2	5150.00	16.34	2.93	34.21	53.48	Max Avg	Vertical	169	358	54.0	-0.5	Pass
#3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 1.4 dB added to average measurement.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5602.72	28.82	3.09	34.65	66.56	Max Peak	Vertical	177	359	68.2	-1.7	Pass
#2	5725.00	67.31	3.19	34.72	105.22	Max Peak	Vertical	177	359	122.2	-17.0	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	40MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5745.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5628.43	29.13	3.12	34.64	66.89	Max Peak	Vertical	177	359	68.2	-1.3	Pass
#2	5725.00	61.87	3.19	34.72	99.78	Max Peak	Vertical	177	359	122.2	-22.4	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	80MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5765.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5611.83	29.34	3.10	34.65	67.09	Max Peak	Vertical	177	359	68.2	-1.1	Pass
#2	5725.00	57.58	3.19	34.72	95.49	Max Peak	Vertical	177	359	122.2	-26.7	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	66.42	3.24	34.96	104.62	Max Peak	Vertical	177	359	122.2	-17.6	Pass
#3	5991.36	28.16	3.25	35.21	66.62	Max Peak	Vertical	177	359	68.2	-1.6	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	40MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5830.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5850.00	60.67	3.24	34.96	98.87	Max Peak	Vertical	177	359	122.2	-23.4	Pass
#3	5994.13	28.00	3.26	35.22	66.48	Max Peak	Vertical	177	359	68.2	-1.8	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	80MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5810.00	Data Rate:	13.00 MBit/s
Power Setting:	-1.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#2	5906.23	39.00	3.24	35.10	77.34	Max Peak	Vertical	177	359	82.4	-5.1	Pass
#3	5926.83	28.50	3.18	35.11	66.79	Max Peak	Vertical	177	359	68.2	-1.4	Pass
#1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

RADWIN RW-9732-4958 Point to Point Operation

5150 - 5250 MHz

Band Edge Power limited to Multipoint power levels already at Limit when antenna gain reduction is factored in.

5725 MHz Radiated Lower Band-Edge Emissions

RADWIN RW-9732-4958		Band-Edge Freq	Limit 68.2dBµV/m	Limit 122.2dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
20MHz	5735.00	5725.00	67.88	108.72	2.0
40MHz	5745.00	5725.00	67.81	101.06	0.5
80MHz	5765.00	5725.00	67.46	97.64	0.5

5850 MHz Radiated Higher Band-Edge Emissions

RADWIN RW-9732-4958		Band-Edge Freq	Limit 68.2dBµV/m	Limit 122.2dBµV/m	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	
20MHz	5840.00	5850.00	67.55	107.36	2.0
40MHz	5830.00	5850.00	67.86	100.99	2.0
80MHz	5810.00	5850.00	66.82	74.35	2.0

Click on the links to view the data.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5735.00	Data Rate:	13.00 MBit/s
Power Setting:	2.0	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5630.23	30.12	3.12	34.64	67.88	Max Peak	Vertical	177	359	68.2	-0.4	Pass
#2	5725.00	70.81	3.19	34.72	108.72	Max Peak	Vertical	177	359	122.2	-13.5	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	40MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5745.00	Data Rate:	13.00 MBit/s
Power Setting:	0.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5622.29	30.05	3.12	34.64	67.81	Max Peak	Vertical	177	359	68.2	-0.4	Pass
#2	5725.00	63.15	3.19	34.72	101.06	Max Peak	Vertical	177	359	122.2	-21.1	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation

Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	80MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5765.00	Data Rate:	13.00 MBit/s
Power Setting:	0.5	Tested By:	JMH

Test Measurement Results

5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5613.28	29.70	3.11	34.65	67.46	Max Avg	Vertical	177	359	68.2	-0.8	Pass
#2	5725.00	59.73	3.19	34.72	97.64	Max Avg	Vertical	177	359	122.2	-24.6	Pass
#3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5840.00	Data Rate:	13.00 MBit/s
Power Setting:	2.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5850.00	69.16	3.24	34.96	107.36	Max Peak	Vertical	177	359	122.2	-14.9	Pass
#3	5932.36	29.23	3.21	35.11	67.55	Max Peak	Vertical	177	359	68.2	-0.7	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	40MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	87
Channel Frequency (MHz):	5830.00	Data Rate:	13.00 MBit/s
Power Setting:	2.0	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#1	5850.00	62.79	3.24	34.96	100.99	Max Peak	Vertical	177	359	122.2	-21.2	Pass
#3	5925.45	29.58	3.17	35.11	67.86	Max Peak	Vertical	177	359	68.2	-0.4	Pass
#2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	RADWIN RW-9732-4958	Variant:	80MHz
Antenna Gain (dBi):	31.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	73
Channel Frequency (MHz):	5810.00	Data Rate:	13.00 MBit/s
Power Setting:	0.5	Tested By:	JMH

Test Measurement Results

5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
#2	5906.23	36.01	3.24	35.10	74.35	Max Peak	Vertical	177	359	82.4	-8.1	Pass
#3	5970.16	28.48	3.17	35.17	66.82	Max Peak	Vertical	177	359	68.2	-1.4	Pass
#1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

1.1.3. Digital Emissions

Radiated Test Conditions for Radiated Digital Emissions (0.03 – 1 GHz)			
Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	20.0 - 24.5
Test Heading:	Digital Emissions	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.209	Pressure (mBars):	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Radiated Digital Emissions (0.03 – 1 GHz)

Testing 30M-1 GHz was performed in a 3-meter anechoic chamber using a CISPR compliant receiver. Preliminary radiated emissions were measured on every azimuth and with the receiving antenna in both horizontal and vertical polarizations. To further maximize emissions the receive antenna was varied between 1 and 4 meters. The emissions are recorded with receiver in peak hold mode. Emissions closest to the limits are measured in the quasi-peak mode with the tuned receiver using a bandwidth of 120 kHz. Only the highest emissions relative to the limit are listed.

Test configuration and setup for Radiated Spurious and Band-Edge Measurement were per the Radiated Test Set-up specified in this document.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. In this test facility, the Antenna Factor, Cable Loss, and Amplifier Gains are loaded into the Rohde & Schwarz Receiver and the corrected field strength can be read directly on the receiver.

$$FS = R + AF + CORR$$

where:

FS = Field Strength

R = Measured Receiver Input Amplitude

AF = Antenna Factor

CORR = Correction Factor = CL – AG + NFL

CL = Cable Loss

AG = Amplifier Gain

For example:

Given a Receiver input reading of 51.5dBmV; Antenna Factor of 8.5dB; Cable Loss of 1.3dB; Falloff Factor of 0dB, an Amplifier Gain of 26dB and Notch Filter Loss of 1dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3\text{dBmV/m}$$

Conversion between dBmV/m (or dBmV) and mV/m (or mV) are done as:

$$\text{Level (dBmV/m)} = 20 * \text{Log (level (mV/m))}$$

$$40 \text{ dBmV/m} = 100\text{mV/m}$$

$$48 \text{ dBmV/m} = 250\text{mV/m}$$

Limits for Radiated Digital Emissions (0.03 – 1 GHz) (15.209)

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength		Measurement Distance (m)
	µV/m (microvolts/meter)	dBµV/m (dB microvolts/meter)	
0.009-0.490	2400/F(kHz)	--	300
0.490-1.705	24000/F(kHz)	--	30

1.705-30.0	30	29.5	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46.0	3
Above 960	500	54.0	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

(b) In the emission table above, the tighter limit applies at the band edges. (c) The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission. For intentional radiators which operate under the provisions of other sections within this part and which are required to reduce their unwanted emissions to the limits specified in this table, the limits in this table are based on the frequency of the unwanted emission and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. (d) The emission limits shown in the above table 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. (e) The provisions in §§15.31, 15.33, and 15.35 for measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part. (f) In accordance with §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in §15.109 that are applicable to the incorporated digital device. (g) Perimeter protection systems may operate in the 54-72 MHz and 76-88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.

Equipment Configuration for Digital Emissions

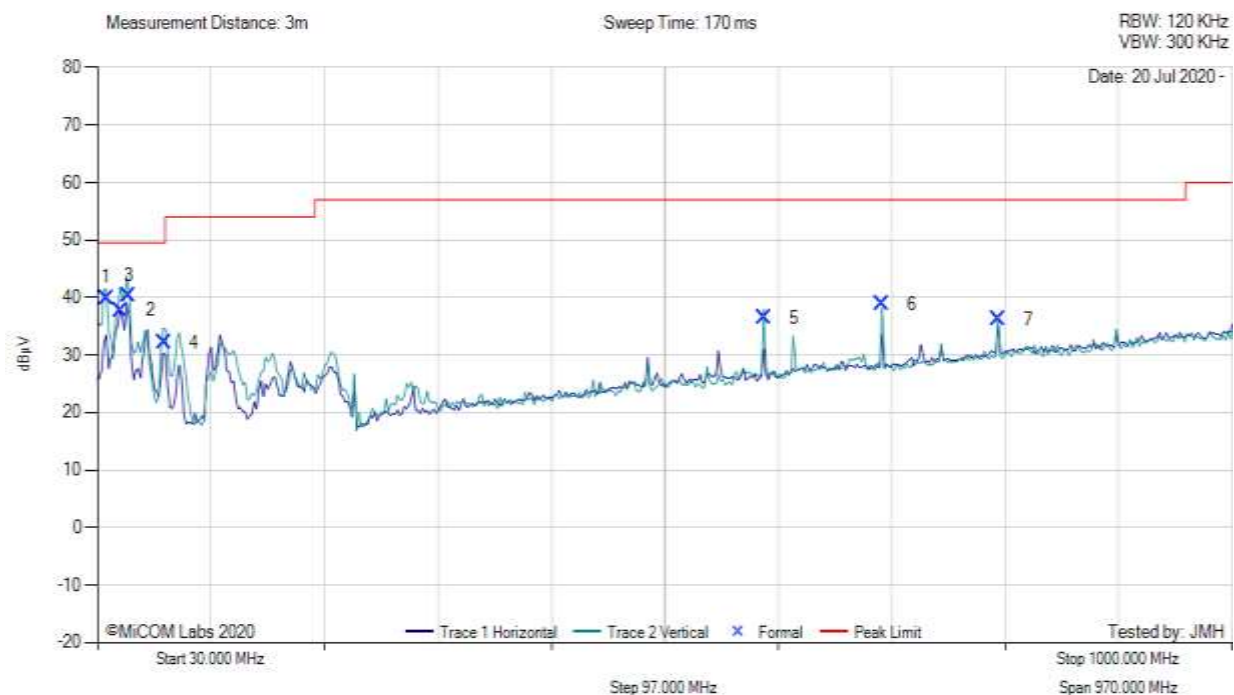
Antenna:	RADWIN RW-9732-4958	Variant:	20MHz
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	4	Tested By:	JMH

Test Measurement Results



DIGITAL EMISSIONS Class A

Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 4, Duty Cycle (%): 93



30.00 - 1000.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	37.76	49.20	3.63	-12.91	39.92	MaxQP	Vertical	102	34	49.5	-9.6	Pass
2	50.38	54.77	3.73	-20.71	37.79	MaxQP	Vertical	101	266	49.5	-2.2	Pass
3	56.63	57.58	3.78	-21.15	40.21	MaxQP	Vertical	107	254	49.5	-9.3	Pass
4	87.51	49.22	3.99	-21.01	32.20	MaxQP	Vertical	107	98	49.5	-11.7	Pass
5	599.97	39.17	5.82	-8.55	36.44	MaxQP	Vertical	238	189	57.0	-20.6	Pass
6	699.99	39.97	6.20	-7.31	38.86	MaxQP	Vertical	199	206	57.0	-18.1	Pass
7	799.99	35.63	6.48	-5.93	36.18	MaxQP	Vertical	251	186	57.0	-20.8	Pass

Test Notes: EUT powered by POE. Connected to laptop outside chamber

Equipment Configuration for Digital Emissions

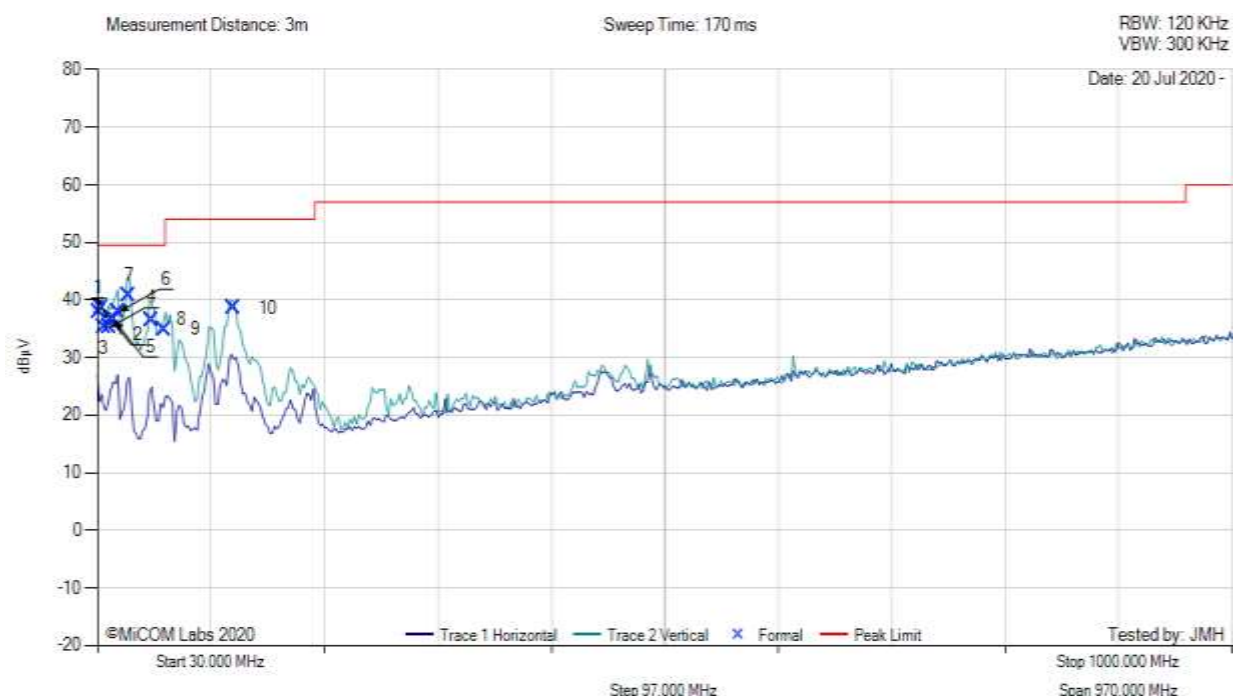
Antenna:	RADWIN Integrated	Variant:	20MHz
Antenna Gain (dBi):	14.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	93
Channel Frequency (MHz):	5180.00	Data Rate:	13.00 MBit/s
Power Setting:	4	Tested By:	JMH

Test Measurement Results



DIGITAL EMISSIONS

Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN Integrated, Power Setting: 4, Duty Cycle (%): 93



30.00 - 1000.00 MHz

Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	31.22	43.19	3.55	-8.71	38.03	MaxQP	Vertical	103	146	49.5	-11.5	Pass
2	33.98	45.51	3.59	-10.42	38.68	MaxQP	Vertical	101	189	49.5	-10.8	Pass
3	35.75	43.34	3.60	-11.62	35.32	MaxQP	Vertical	108	120	49.5	-14.2	Pass
4	40.32	46.76	3.65	-15.20	35.21	MaxQP	Vertical	101	10	49.5	-14.3	Pass
5	44.12	50.98	3.68	-18.08	36.58	MaxQP	Vertical	102	137	49.5	-12.9	Pass
6	47.89	53.93	3.71	-19.76	37.88	MaxQP	Vertical	101	12	49.5	-11.6	Pass
7	57.21	58.19	3.79	-21.16	40.82	MaxQP	Vertical	109	7	49.5	-8.7	Pass
8	76.53	53.17	3.92	-20.51	36.58	MaxQP	Vertical	106	115	49.5	-12.9	Pass
9	87.71	51.88	3.99	-21.01	34.86	MaxQP	Vertical	122	130	49.5	-14.6	Pass
10	146.36	50.06	4.30	-15.81	38.55	MaxQP	Vertical	103	120	54.0	-15.5	Pass

Test Notes: EUT powered by POE. Connected to laptop outside chamber. Tx 5180 and 5735 max power.

1.1.4. ac Wireline Emissions

Test Conditions for ac Wireline Emissions (0.15 – 30 MHz)

Standard:	FCC CFR 47:15.247	Ambient Temp. (°C):	20.0 - 24.5
Test Heading:	Conducted (ac Wireline Emissions)	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.207	Pressure (mBars):	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for ac Wireline Emissions (0.15 – 30 MHz)

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.

Test configuration and setup for ac Wireline Emission Measurement were per the ac Wireline Test Set-up specified in this document.

Limits for ac Wireline Emissions

- (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Limits for conducted disturbance at the mains ports of class B ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50
Note 1	* Decreases with the logarithm of the frequency	
Note 2	* The lower limit applies at the boundary between frequency ranges	

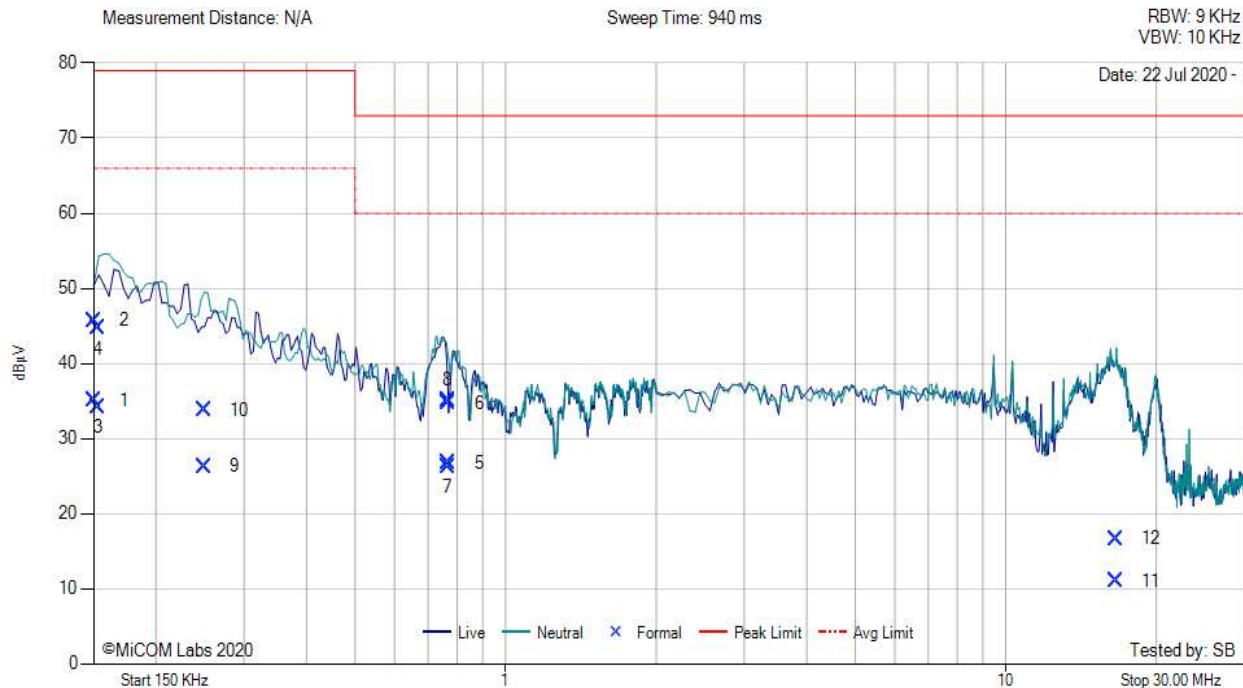
Limits for conducted disturbance at the mains ports of class A ITE

Frequency of emission (MHz)	Quasi-peak dBuV	Average dBuV
0.15–0.5	79	66
0.5–30	73	60
Note 1	* The lower limit shall apply at the transition frequency.	

The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

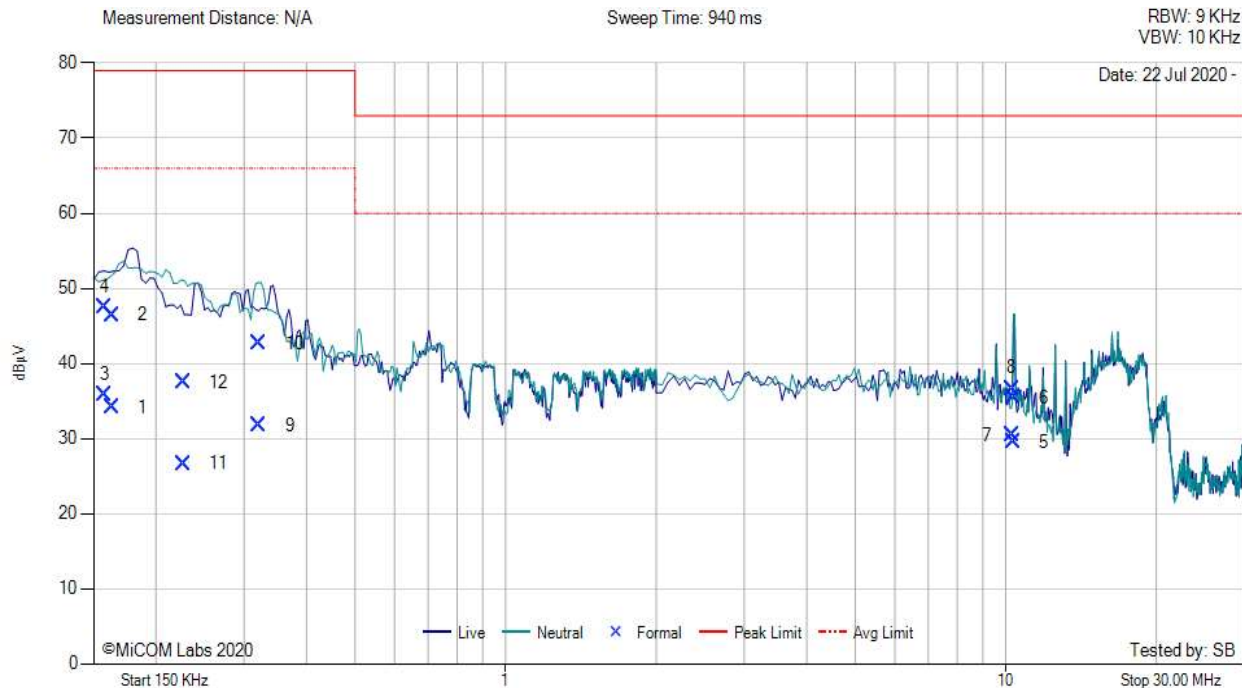


Num	Frequency MHz	Raw dBμV	Cable Loss dB	Factor dB	Total Correction dBμV	Corrected Value dBμV	Measurement Type	Line	Limit dBμV/m	Margin dB	Pass /Fail
1	0.151	25.12	0.05	9.92	9.97	35.09	Max Avg	Neutral	66.0	-30.9	Pass
2	0.151	35.78	0.05	9.92	9.97	45.75	Max Qp	Neutral	79.0	-33.3	Pass
3	0.153	24.25	0.05	9.92	9.97	34.22	Max Avg	Live	66.0	-31.8	Pass
4	0.153	34.78	0.05	9.92	9.97	44.75	Max Qp	Live	79.0	-34.3	Pass
5	0.769	16.74	0.12	9.93	10.05	26.79	Max Avg	Neutral	60.0	-33.2	Pass
6	0.769	24.70	0.12	9.93	10.05	34.75	Max Qp	Neutral	73.0	-38.3	Pass
7	0.766	16.25	0.12	9.93	10.05	26.30	Max Avg	Live	60.0	-33.7	Pass
8	0.766	25.01	0.12	9.93	10.05	35.06	Max Qp	Live	73.0	-37.9	Pass
9	0.250	16.32	0.07	9.92	9.99	26.31	Max Avg	Neutral	66.0	-39.7	Pass
10	0.250	23.85	0.07	9.92	9.99	33.84	Max Qp	Neutral	79.0	-45.2	Pass
11	16.622	-0.06	0.56	10.56	11.12	11.06	Max Avg	Neutral	60.0	-48.9	Pass
12	16.622	5.56	0.56	10.56	11.12	16.68	Max Qp	Neutral	73.0	-56.3	Pass

EUT: RF Module

Test Notes: Input: 120V 60Hz 1.5A

Output: 55V 1A



Num	Frequency MHz	Raw dBμV	Cable Loss dB	Factor dB	Total Correction dBμV	Corrected Value dBμV	Measurement Type	Line	Limit dBμV/m	Margin dB	Pass /Fail
1	0.164	24.13	0.05	9.92	9.97	34.10	Max Avg	Live	66.0	-31.9	Pass
2	0.164	36.51	0.05	9.92	9.97	46.48	Max Qp	Live	79.0	-32.5	Pass
3	0.158	25.83	0.05	9.92	9.97	35.80	Max Avg	Neutral	66.0	-30.2	Pass
4	0.158	37.50	0.05	9.92	9.97	47.47	Max Qp	Neutral	79.0	-31.5	Pass
5	10.373	18.80	0.45	10.24	10.69	29.49	Max Avg	Neutral	60.0	-30.5	Pass
6	10.373	24.73	0.45	10.24	10.69	35.42	Max Qp	Neutral	73.0	-37.6	Pass
7	10.287	19.76	0.45	10.24	10.69	30.45	Max Avg	Neutral	60.0	-29.6	Pass
8	10.287	25.96	0.45	10.24	10.69	36.65	Max Qp	Neutral	73.0	-36.4	Pass
9	0.322	21.80	0.05	9.92	9.97	31.77	Max Avg	Neutral	66.0	-34.2	Pass
10	0.322	32.65	0.05	9.92	9.97	42.62	Max Qp	Neutral	79.0	-36.4	Pass
11	0.227	16.69	0.07	9.92	9.99	26.68	Max Avg	Live	66.0	-39.3	Pass
12	0.227	27.53	0.07	9.92	9.99	37.52	Max Qp	Live	79.0	-41.5	Pass

EUT: Sector

Test Notes: Input: 120V 60Hz 1.5A

Output: 55V 1A

A. APPENDIX - GRAPHICAL IMAGES

A.1. Radiated

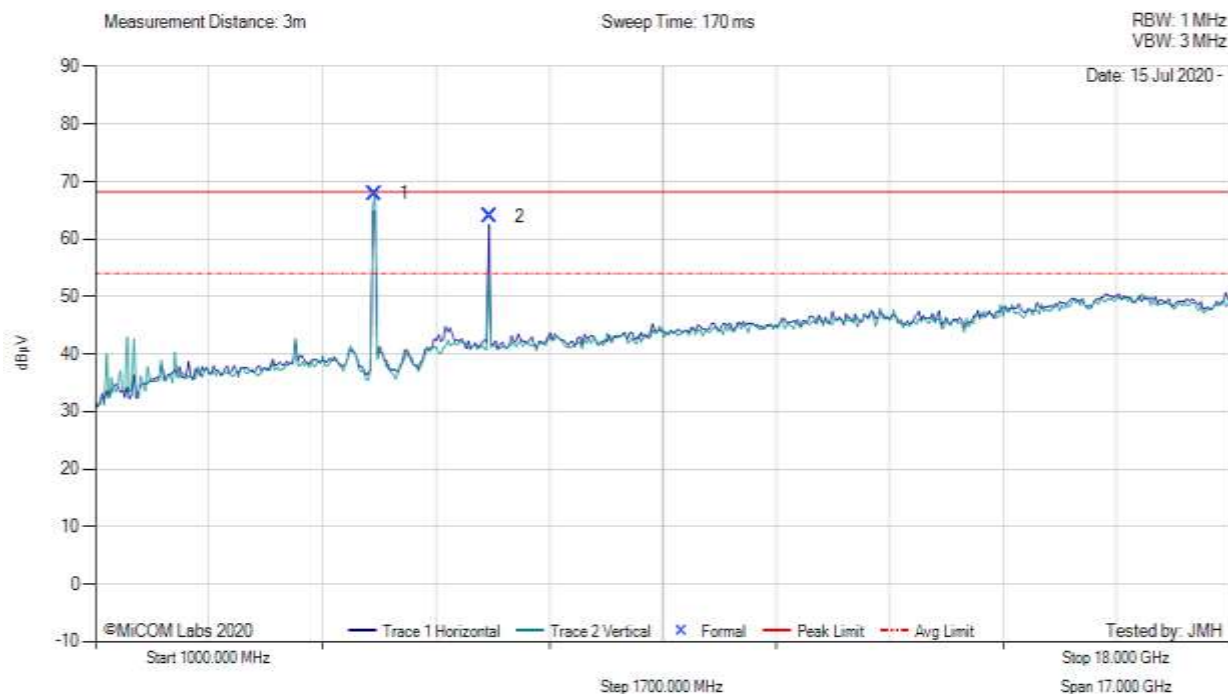
A.1.1. TX Spurious & Restricted Band Emissions

A.1.1.1. RADWIN Integrated



TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN Integrated, Power Setting: 15, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5183.38	77.04	3.01	-12.18	67.87	Fundamental	Vertical	151	0	--	--	
2	6906.59	68.60	3.40	-8.09	63.91	Max Peak	Horizontal	162	59	68.2	-4.3	Pass

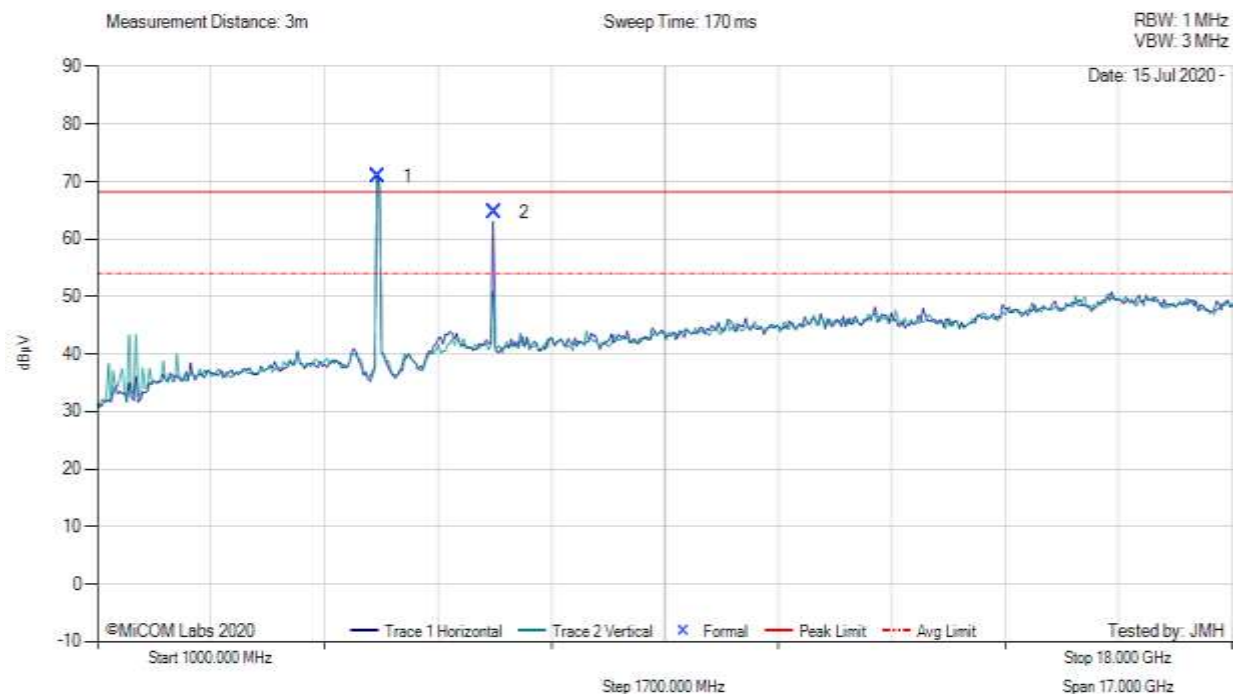
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak limit

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN Integrated, Power Setting: 15.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5206.31	80.23	2.99	-12.40	70.82	Fundamental	Vertical	151	0	--	--	
2	6946.71	69.06	3.35	-7.80	64.61	Max Peak	Horizontal	171	43	68.2	-3.6	Pass

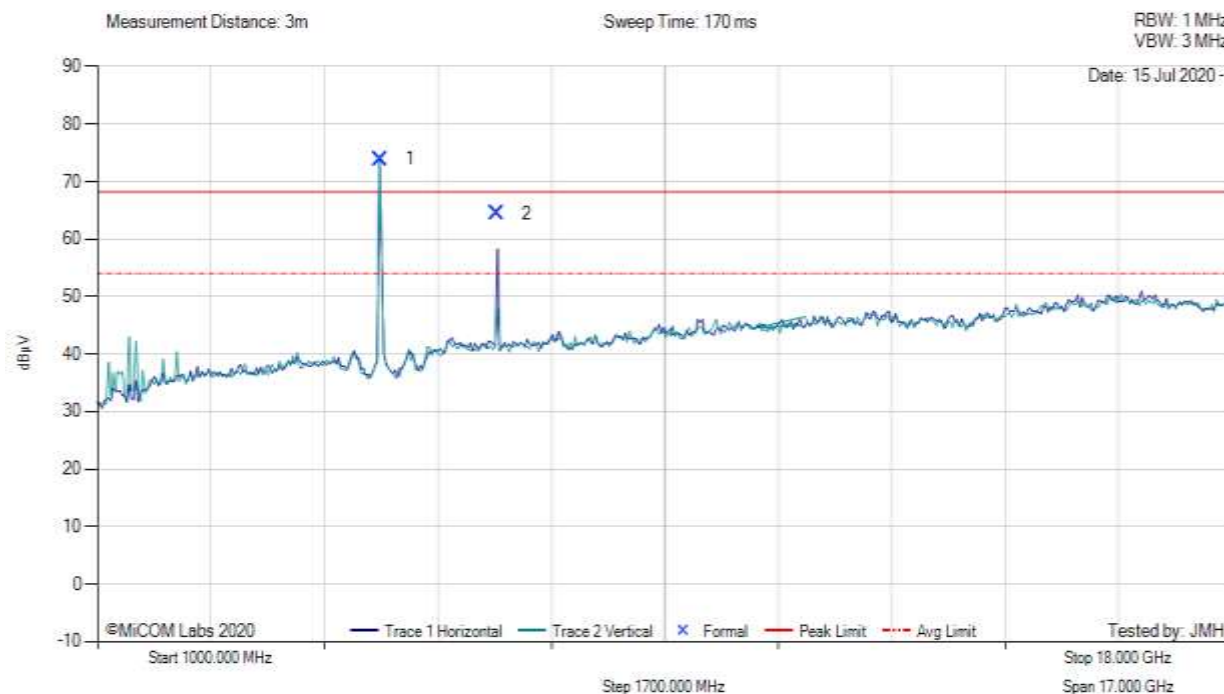
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak limit

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5240.00 MHz, Antenna: RADWIN Integrated, Power Setting: 16.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5243.24	82.85	3.02	-12.03	73.84	Fundamental	Vertical	151	0	--	--	
2	6986.66	68.82	3.46	-7.89	64.39	Max Peak	Horizontal	175	44	68.2	-3.8	Pass

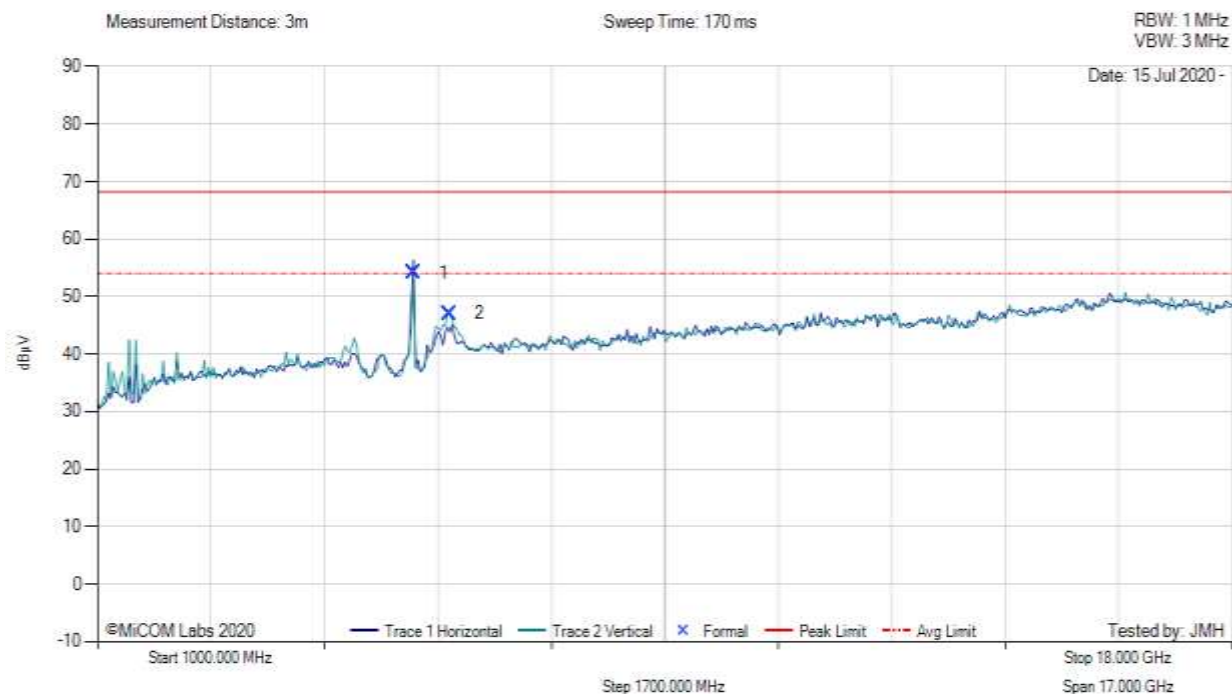
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak limit

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5733.21	62.25	3.14	-11.21	54.18	Fundamental	Horizontal	151	0	--	--	
2	6268.38	53.18	3.36	-9.49	47.05	Peak (NRB)	Vertical	151	8	--	--	Pass

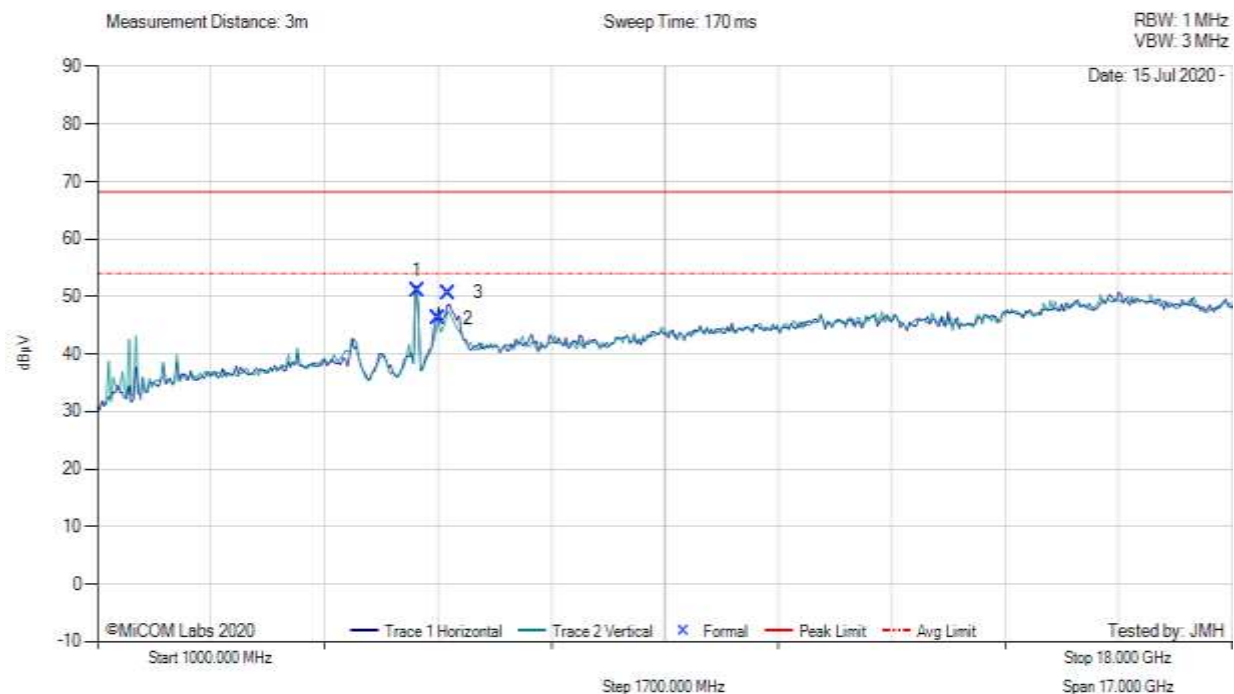
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5790.65	58.78	3.14	-10.87	51.05	Fundamental	Horizontal	151	0	--	--	
2	6102.56	52.94	3.21	-9.88	46.27	Peak (NRB)	Horizontal	151	0	--	--	Pass
3	6254.81	56.81	3.27	-9.47	50.61	Peak (NRB)	Horizontal	151	33	--	--	Pass

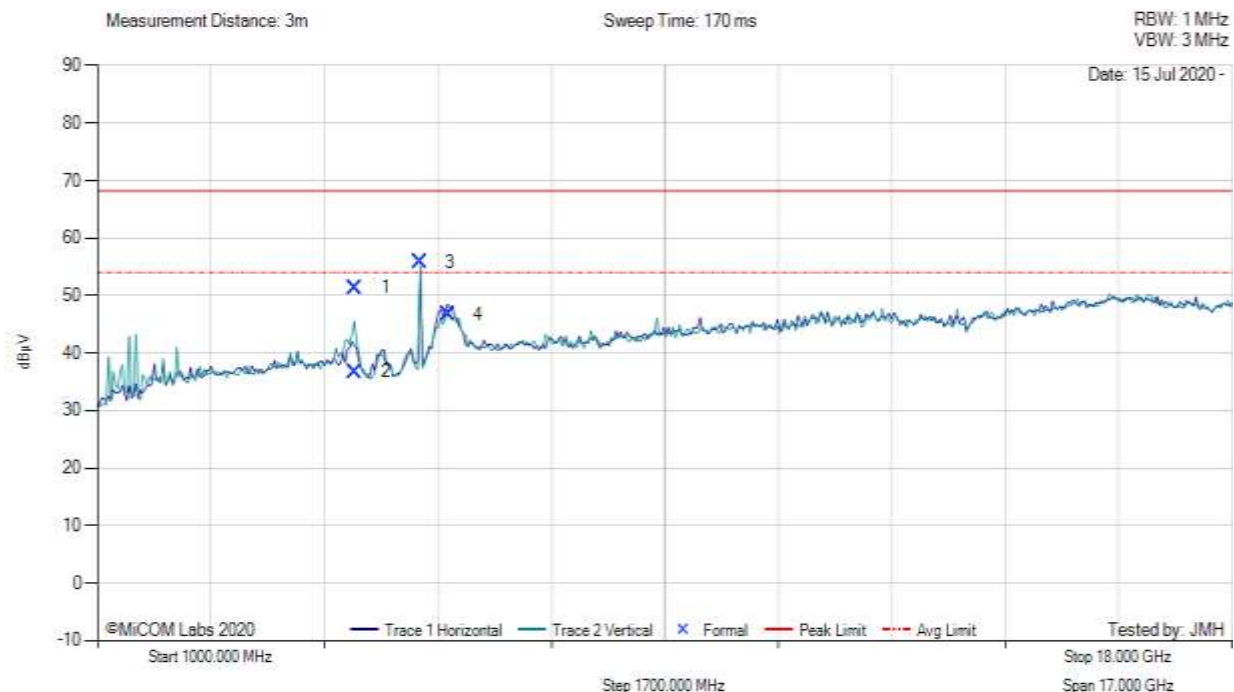
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4866.35	60.98	2.93	-12.53	51.38	Max Peak	Vertical	171	43	68.2	-16.9	Pass
2	4866.35	46.36	2.93	-12.53	36.76	Max Avg	Vertical	171	43	54.0	-17.2	Pass
3	5832.77	63.38	3.15	-10.81	55.72	Fundamental	Vertical	151	0	--	--	
4	6256.58	52.84	3.29	-9.48	46.65	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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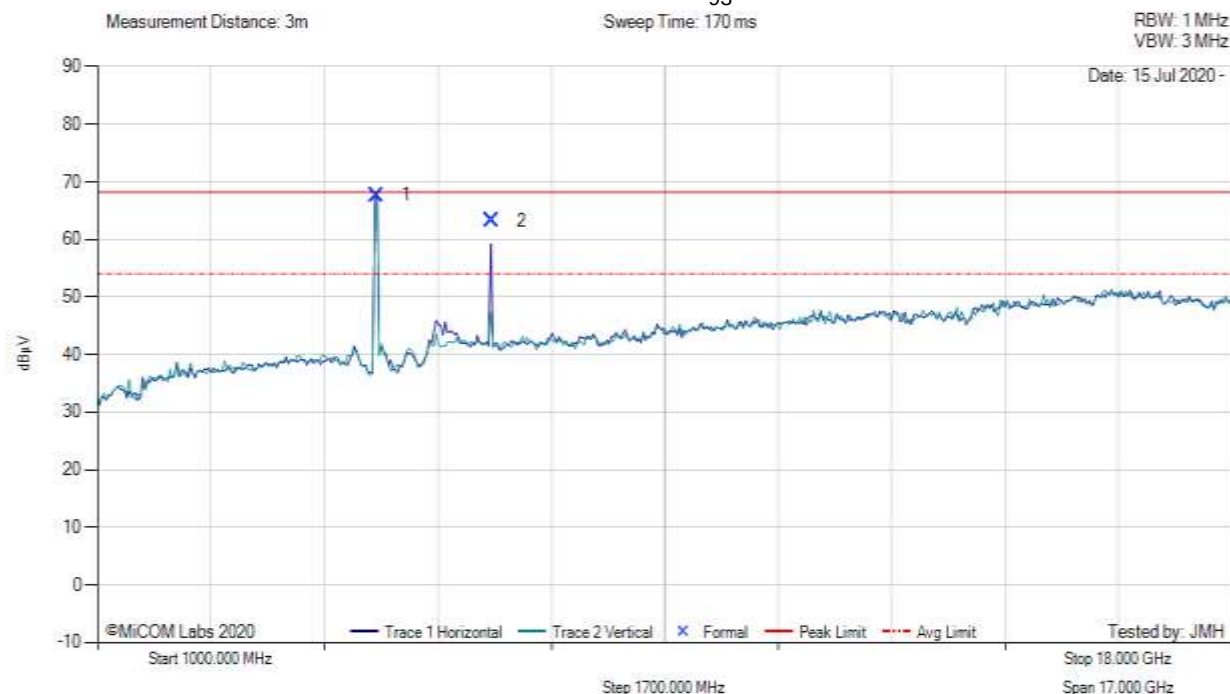
A.1.1.2. RADWIN RW-9061-5002



TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 11.0, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5180.08	76.77	2.98	-12.14	67.61	Fundamental	Horizontal	151	0	--	--	
2	6906.66	67.97	3.40	-8.09	63.28	Max Peak	Horizontal	152	12	68.2	-5.0	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

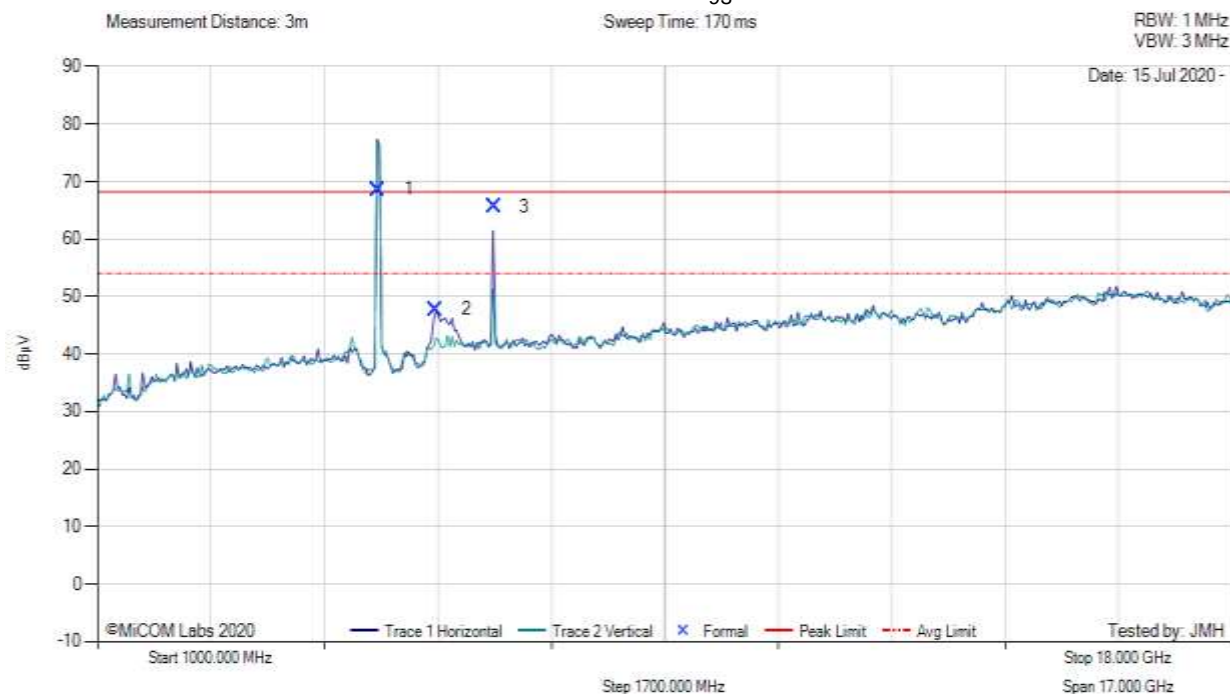
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16.0, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5211.60	77.94	2.99	-12.36	68.57	Fundamental	Horizontal	100	0	--	--	
2	6073.34	54.58	3.24	-10.08	47.74	Peak (NRB)	Horizontal	151	4	--	--	Pass
3	6946.57	70.10	3.35	-7.80	65.65	Max Peak	Horizontal	153	16	68.2	-2.6	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

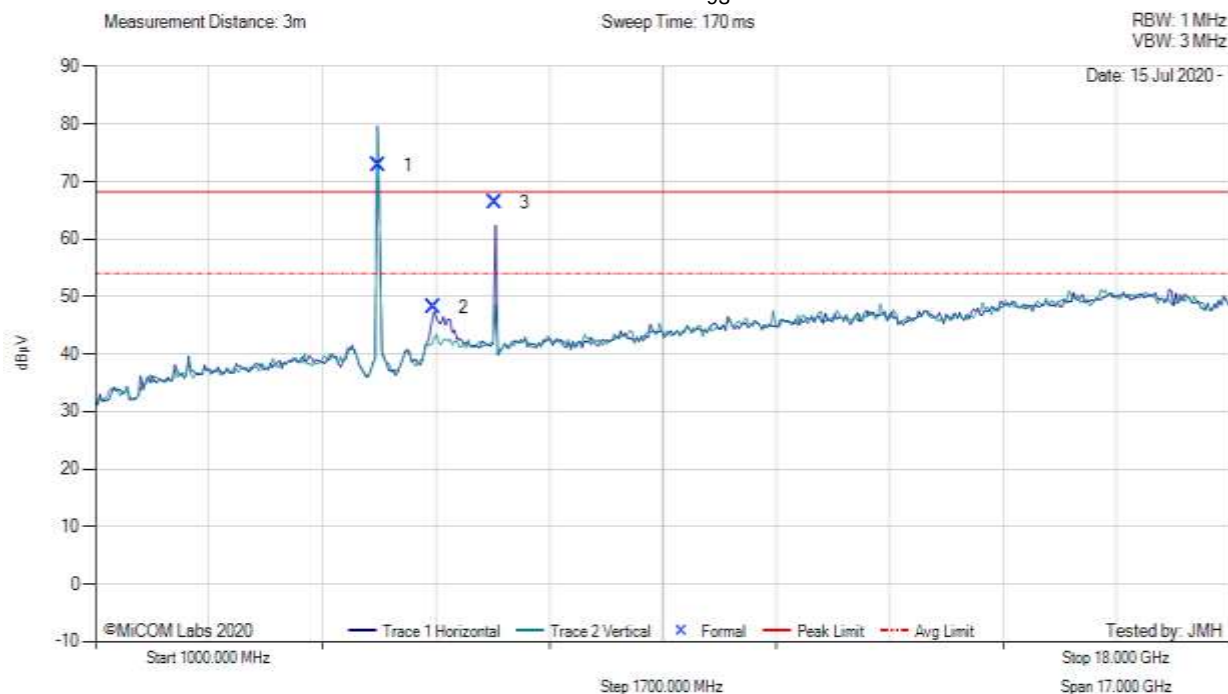
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5240.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16.0, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5238.28	81.97	2.99	-12.11	72.85	Fundamental	Horizontal	100	0	--	--	
2	6068.38	55.01	3.23	-10.11	48.13	Peak (NRB)	Horizontal	151	0	--	--	Pass
3	6986.66	70.79	3.46	-7.89	66.36	Max Peak	Horizontal	152	16	68.2	-1.9	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

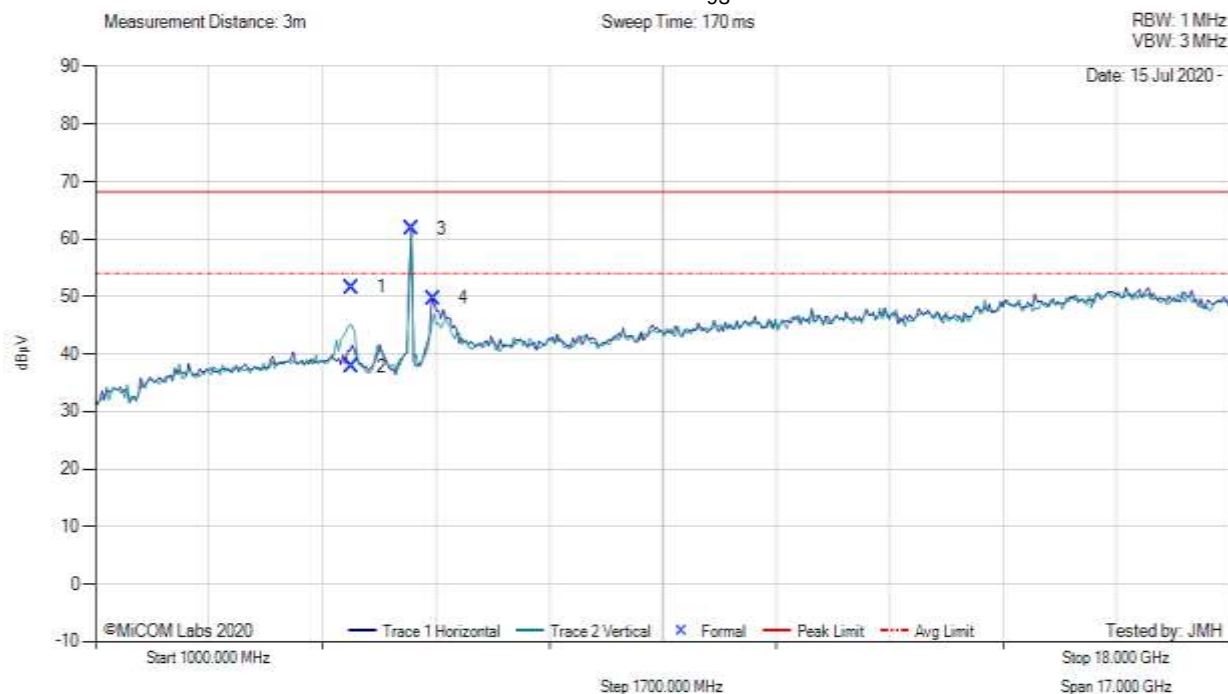
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16.0, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4837.18	61.37	2.81	-12.55	51.63	Max Peak	Vertical	152	354	68.2	-16.6	Pass
2	4837.18	47.61	2.81	-12.55	37.87	Max Avg	Vertical	152	354	54.0	-16.1	Pass
3	5733.43	69.84	3.14	-11.21	61.77	Fundamental	Horizontal	151	0	--	--	
4	6062.09	56.63	3.21	-10.16	49.68	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

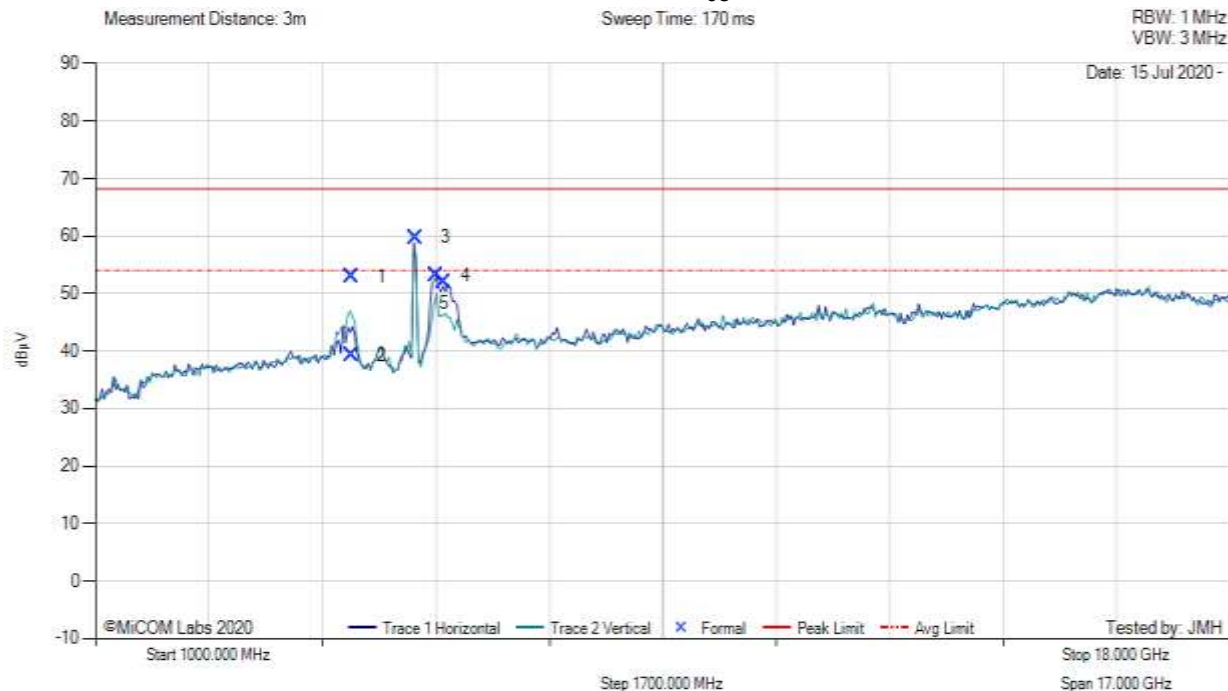
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16.0, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4834.99	62.67	2.83	-12.53	52.97	Max Peak	Vertical	145	2	68.2	-15.3	Pass
2	4834.99	48.91	2.83	-12.53	39.21	Max Avg	Vertical	145	2	54.0	-14.8	Pass
3	5792.74	67.40	3.14	-10.82	59.72	Fundamental	Horizontal	151	0	--	--	
4	6104.76	59.81	3.21	-9.86	53.16	Peak (NRB)	Horizontal	151	0	--	--	Pass
5	6222.06	58.25	3.32	-9.62	51.95	Peak (NRB)	Horizontal	151	0	--	--	Pass

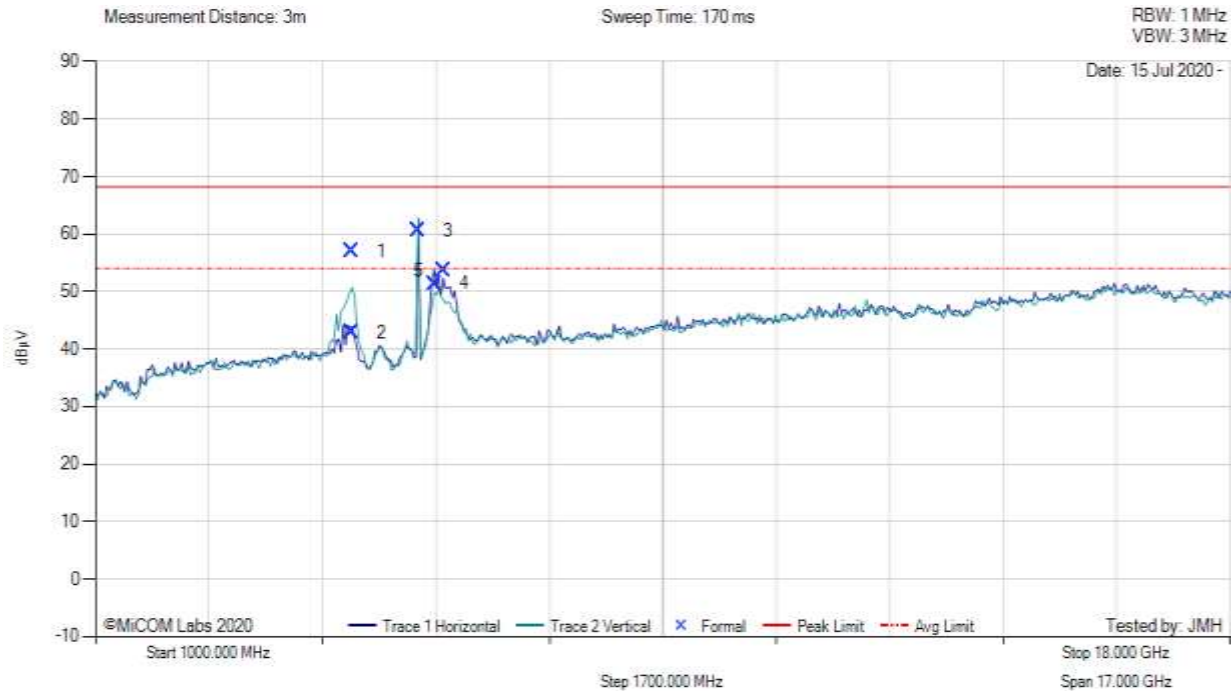
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4837.87	66.67	2.81	-12.55	56.93	Max Peak	Vertical	146	28	68.2	-11.3	Pass
2	4837.87	52.55	2.81	-12.55	42.81	Max Avg	Vertical	146	28	54.0	-11.2	Pass
3	5836.35	68.25	3.16	-10.78	60.63	Fundamental	Vertical	151	0	--	--	
4	6076.15	58.17	3.25	-10.05	51.37	Peak (NRB)	Horizontal	151	9	--	--	Pass
5	6213.25	59.92	3.30	-9.64	53.58	Peak (NRB)	Horizontal	151	9	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload

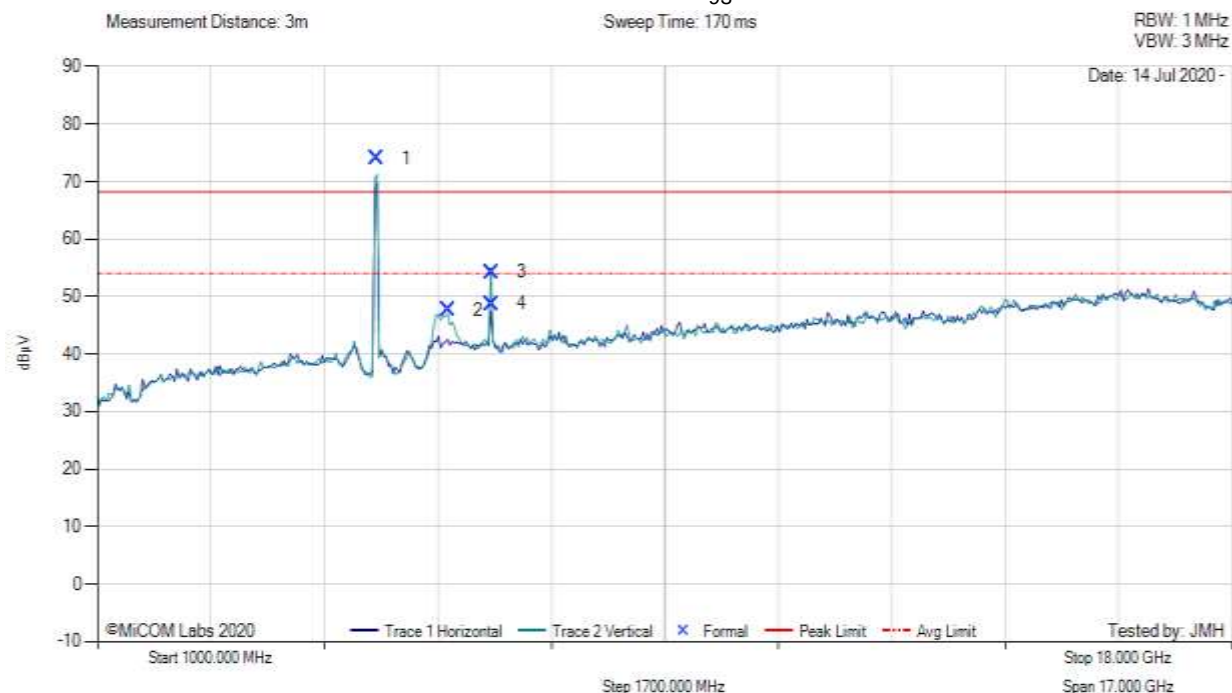
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A.1.1.3. RADWIN RW-9613-4960

TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 7.5, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5178.86	83.10	2.97	-12.12	73.95	Fundamental	Vertical	151	0	--	--	
2	6249.85	53.96	3.25	-9.50	47.71	Peak (NRB)	Vertical	148	0	--	--	Pass
3	6906.68	58.92	3.40	-8.09	54.23	Max Peak	Vertical	122	13	68.2	-14.0	Pass
4	6906.68	53.39	3.40	-8.09	48.70	Max Avg	Vertical	122	13	54.0	-5.3	Pass

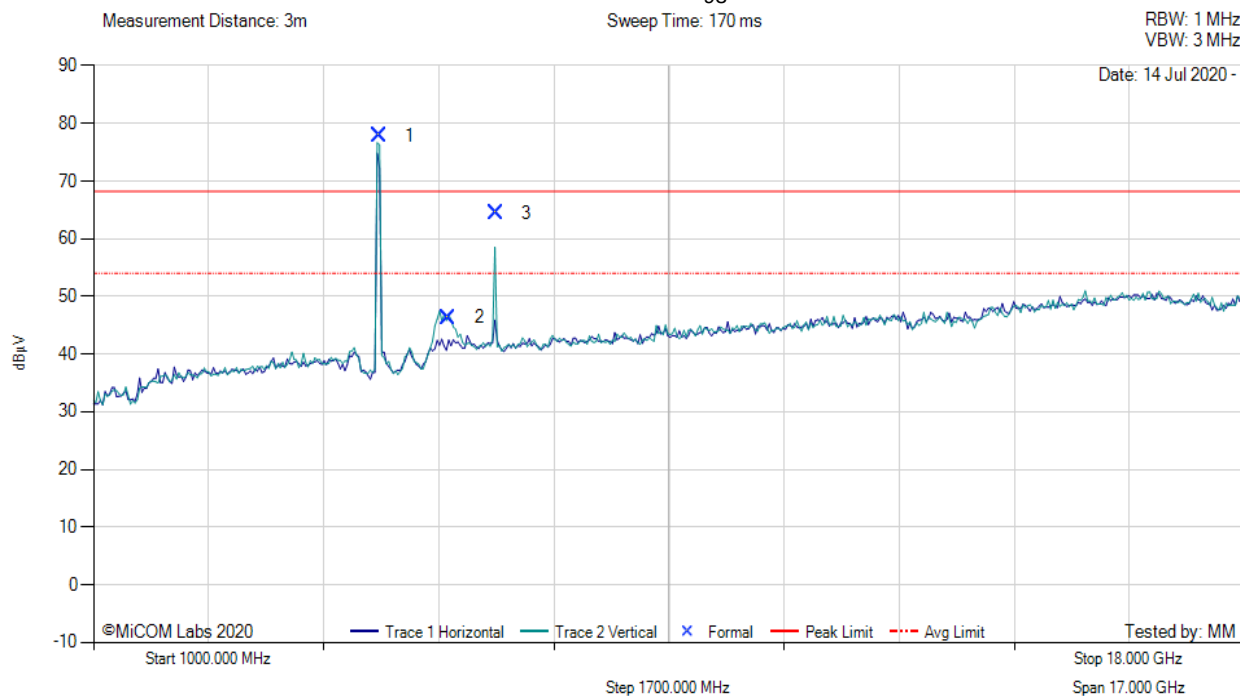
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 8.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5215.51	87.15	2.98	-12.31	77.82	Fundamental	Vertical	151	0	--	--	
2	6247.15	52.56	3.25	-9.51	46.30	Peak (NRB)	Vertical	181	0	--	--	Pass
3	6946.70	57.89	3.35	-7.80	64.44	Max Peak	Vertical	165	3	68.2	-3.8	Pass

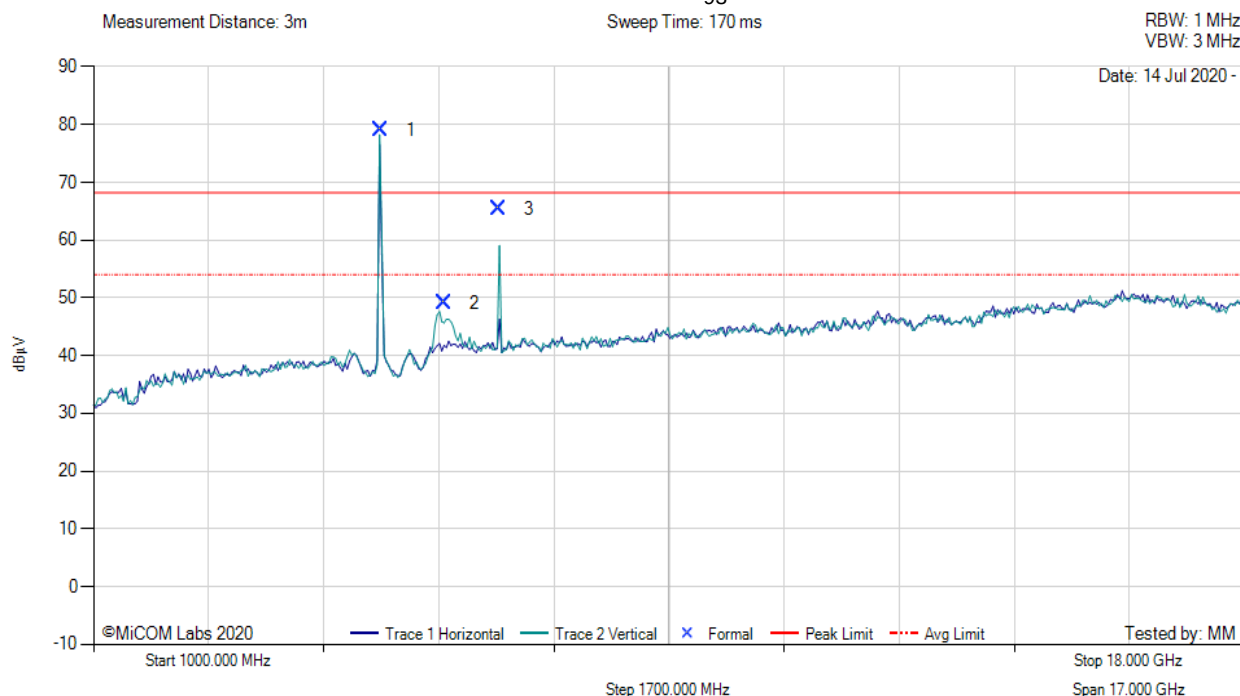
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet Peak Limit.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5240.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 8.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5238.67	88.08	3.00	-12.09	78.99	Fundamental	Vertical	151	0	--	--	
2	6186.02	55.46	3.28	-9.69	49.05	Peak (NRB)	Vertical	151	28	--	--	Pass
3	6986.66	69.79	3.46	-7.89	65.36	Max Peak	Vertical	161	2	68.2	-2.9	Pass

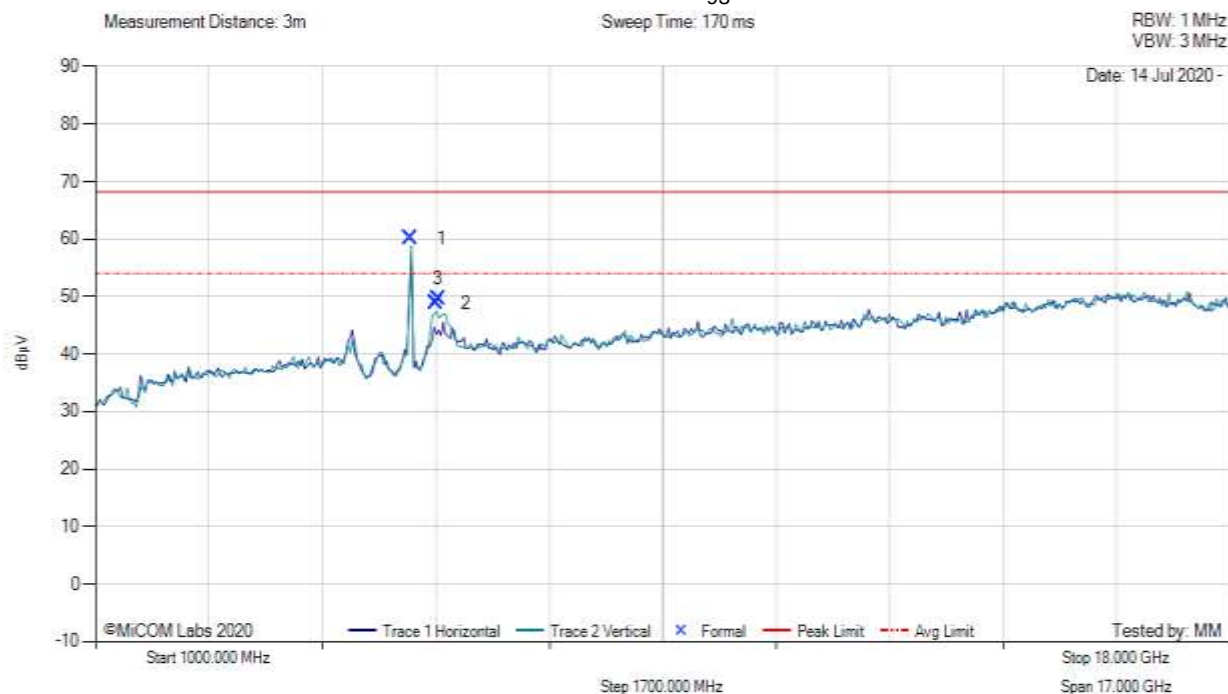
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet peak limit.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 7.5, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5728.14	68.16	3.16	-11.21	60.11	Fundamental	Vertical	163	3	--	--	
2	6104.98	55.43	3.21	-9.86	48.78	Peak (NRB)	Vertical	148	3	--	--	Pass
3	6133.31	56.09	3.31	-9.83	49.57	Peak (NRB)	Vertical	148	3	--	--	Pass

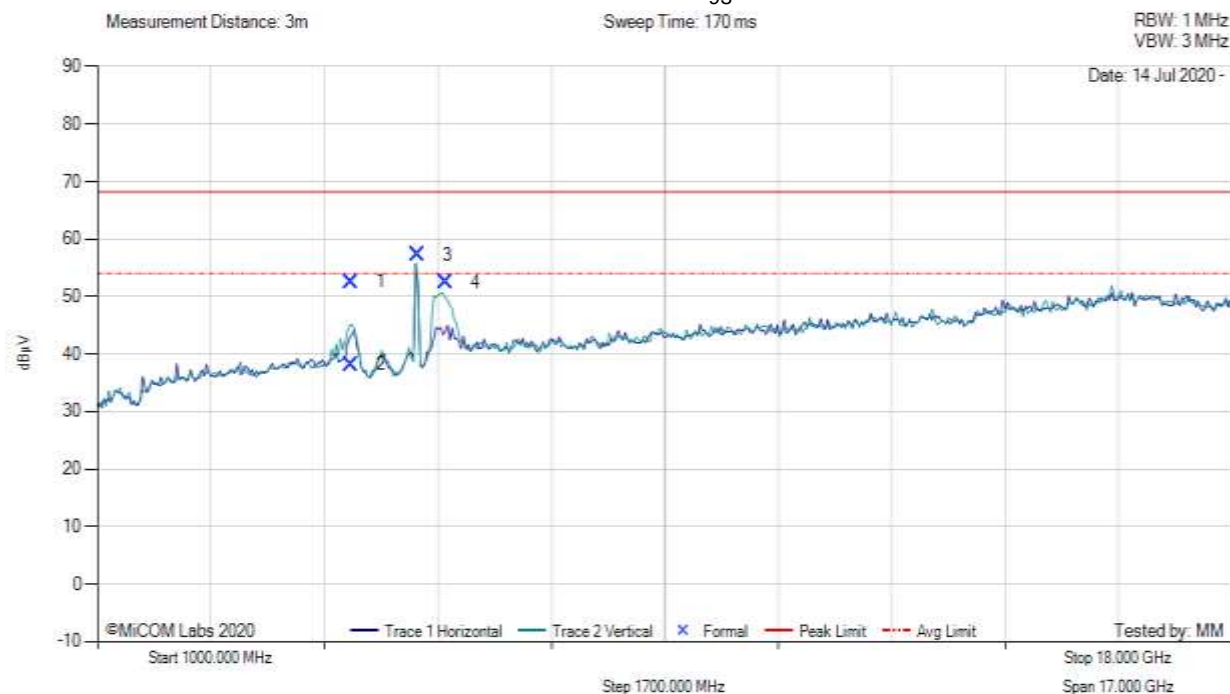
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 8.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4806.52	62.11	2.86	-12.43	52.54	Max Peak	Vertical	159	0	68.2	-15.7	Pass
2	4806.52	47.79	2.86	-12.43	38.22	Max Avg	Vertical	159	0	54.0	-15.8	Pass
3	5792.85	64.89	3.14	-10.82	57.21	Fundamental	Vertical	148	0	--	--	
4	6217.55	58.71	3.31	-9.63	52.39	Peak (NRB)	Vertical	151	0	--	--	Pass

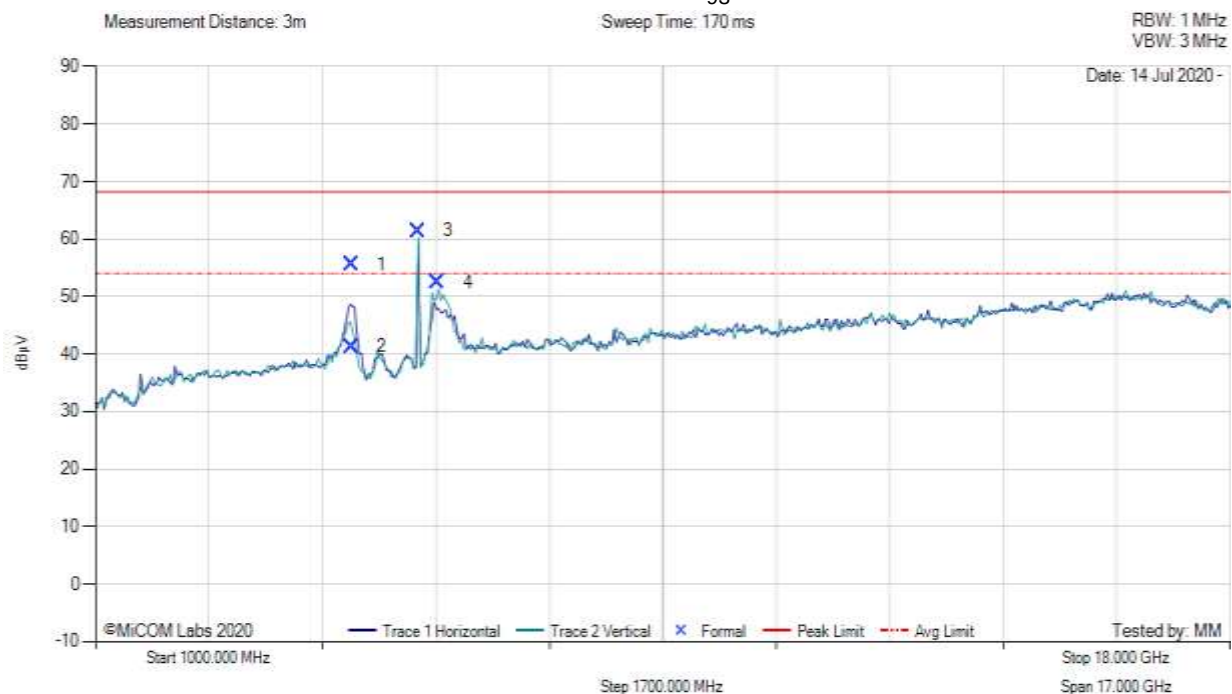
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 8.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4842.14	65.21	2.84	-12.55	55.50	Max Peak	Horizontal	170	1	68.2	-12.7	Pass
2	4842.14	50.99	2.84	-12.55	41.28	Max Avg	Horizontal	170	1	54.0	-12.7	Pass
3	5833.10	69.12	3.15	-10.81	61.46	Fundamental	Vertical	151	0	--	--	
4	6130.79	58.97	3.29	-9.85	52.41	Peak (NRB)	Vertical	148	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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Point to Point Operation

5735 MHz Limited to Band Edge Measurements of Multipoint already near limit.



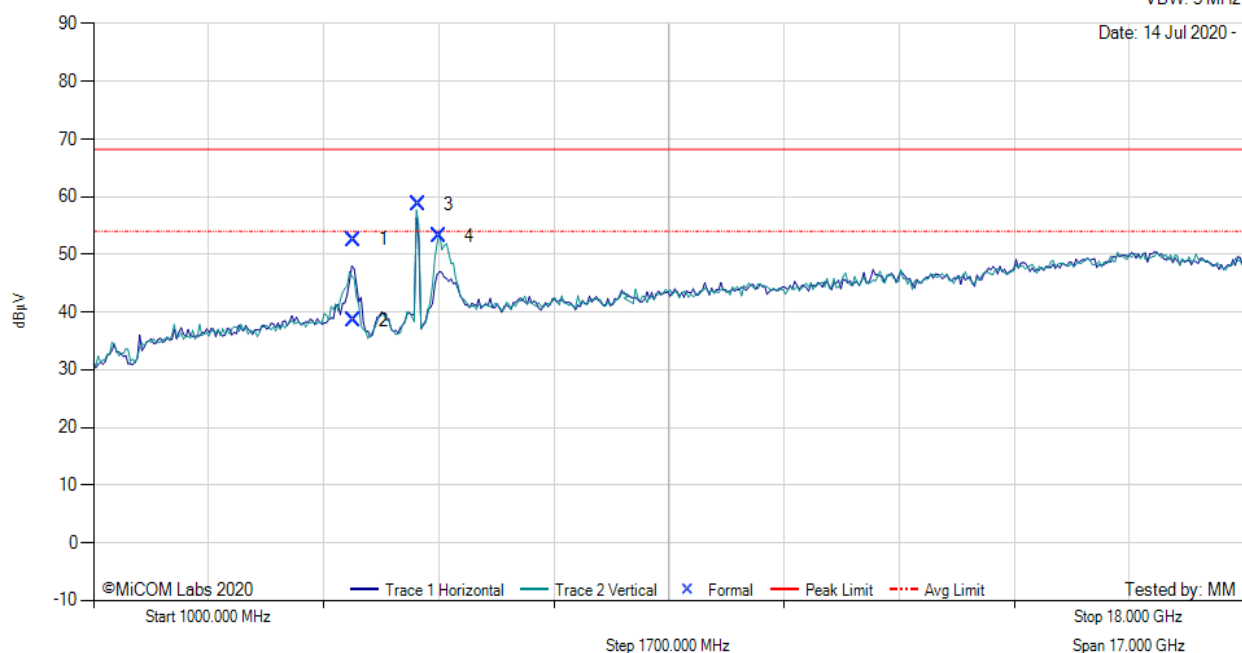
TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 9.5, Duty Cycle (%): 93

Measurement Distance: 3m

Sweep Time: 170 ms

RBW: 1 MHz
VBW: 3 MHz



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4835.08	62.26	2.82	-12.53	52.55	Max Peak	Horizontal	171	3	68.2	-15.7	Pass
2	4835.08	48.20	2.82	-12.53	38.49	Max Avg	Horizontal	171	3	54.0	-15.5	Pass
3	5792.85	66.31	3.14	-10.82	58.63	Fundamental	Vertical	151	0	--	--	
4	6102.23	59.82	3.21	-9.88	53.15	Peak (NRB)	Vertical	148	0	--	--	Pass

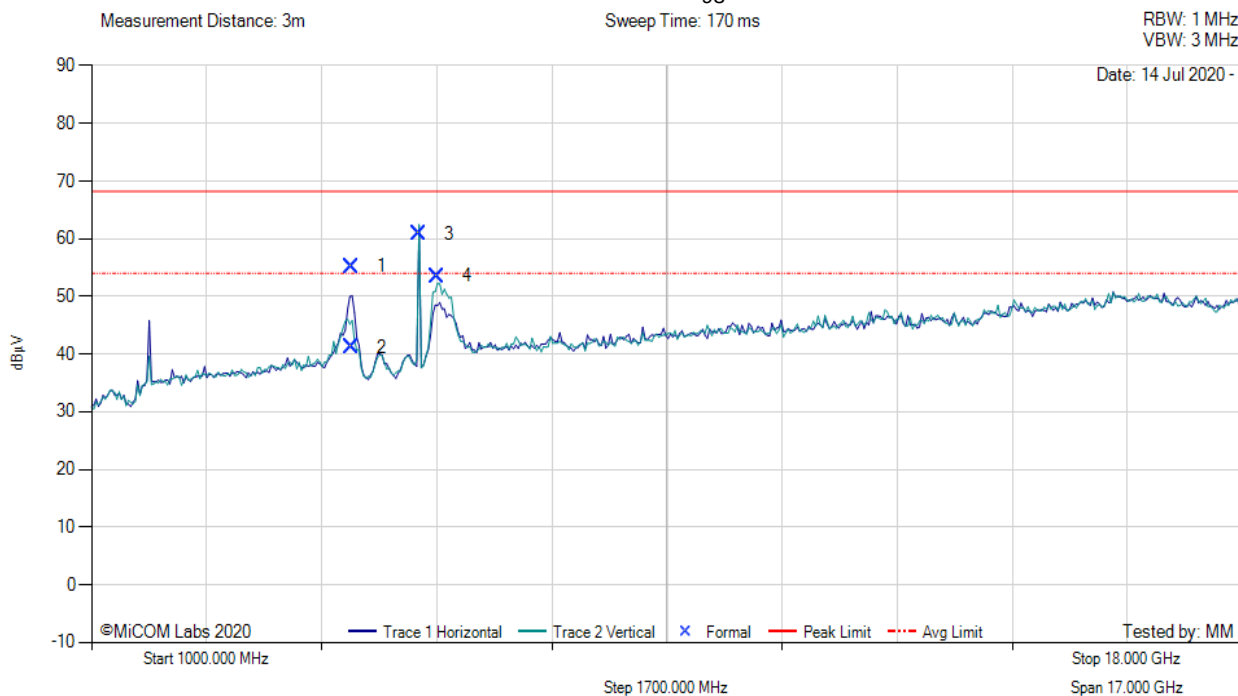
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt -Pt operation

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 9.5, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4837.19	64.96	2.81	-12.55	55.22	Max Peak	Horizontal	159	1	68.2	-13.0	Pass
2	4837.19	50.98	2.81	-12.55	41.24	Max Avg	Horizontal	159	1	54.0	-12.8	Pass
3	5836.24	68.41	3.16	-10.78	60.79	Fundamental	Vertical	151	0	--	--	
4	6100.25	60.22	3.21	-9.91	53.52	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation.

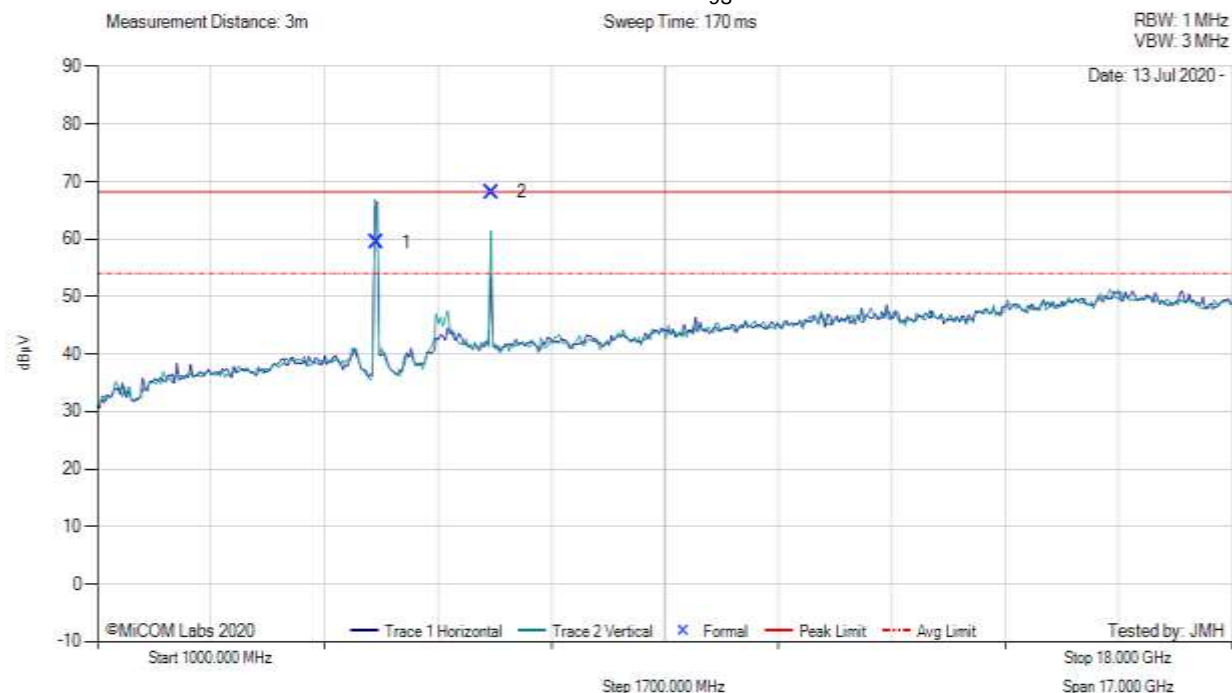
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A.1.1.4. RADWIN RW-9622-5001

TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 1.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5186.04	68.58	3.04	-12.23	59.39	Fundamental	Vertical	151	0	--	--	
2	6906.64	72.81	3.40	-8.09	68.12	Max Peak	Vertical	163	5	68.2	-0.1	Pass

Test Notes: EUT Powered by POE. Power reduced to meet Peak limit.

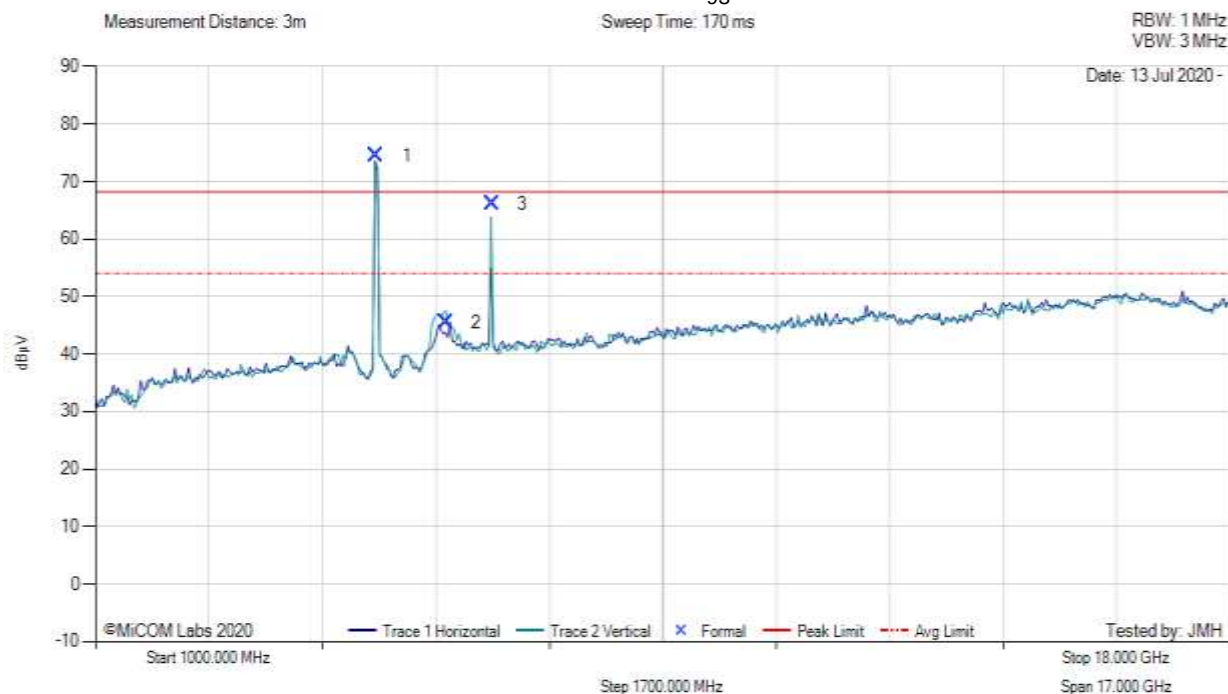
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 3.5, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5211.82	83.85	2.99	-12.36	74.48	Fundamental	Vertical	151	3	--	--	
2	6250.40	51.79	3.25	-9.49	45.55	Peak (NRB)	Vertical	151	0	--	--	Pass
3	6946.66	70.50	3.35	-7.80	66.05	Max Peak	Vertical	161	5	68.2	-2.2	Pass

Test Notes: EUT Powered by POE. Power reduced to meet Peak limit.

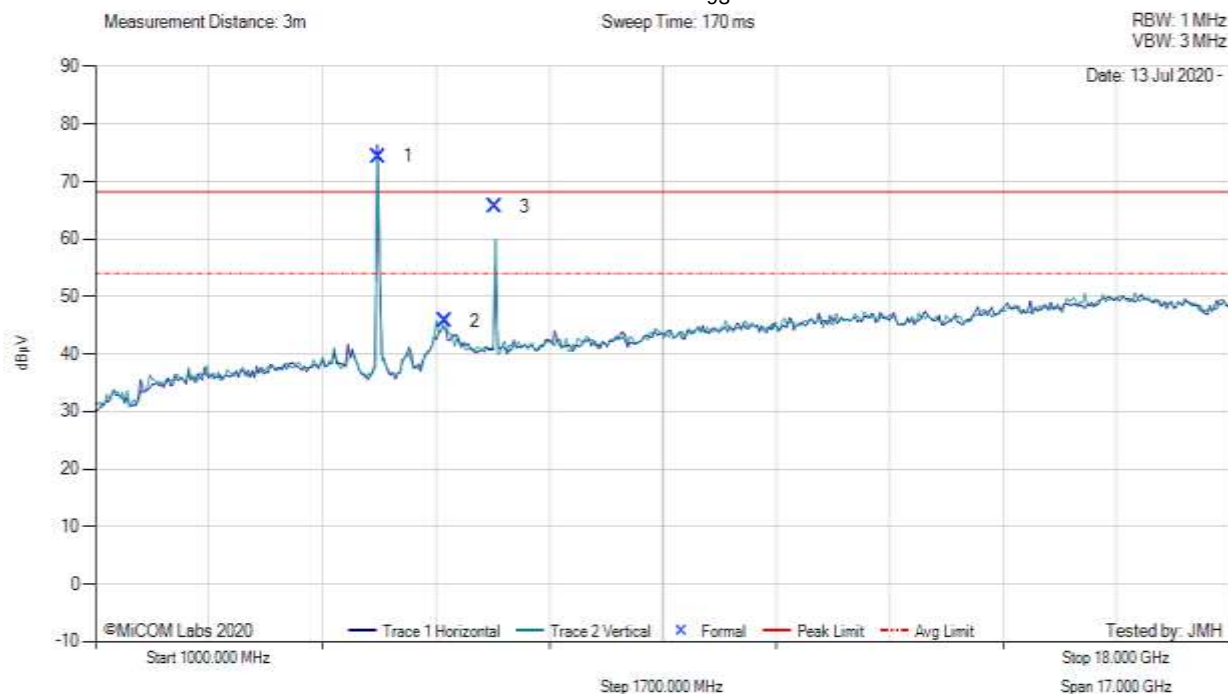
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5240.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 5.0, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5241.62	83.37	3.02	-12.03	74.36	Fundamental	Vertical	151	4	--	--	
2	6241.14	51.99	3.23	-9.53	45.69	Peak (NRB)	Vertical	151	1	--	--	Pass
3	6986.68	70.00	3.46	-7.89	65.57	Max Peak	Vertical	161	7	68.2	-2.7	Pass

Test Notes: EUT Powered by POE. Power reduced to meet Peak limit.

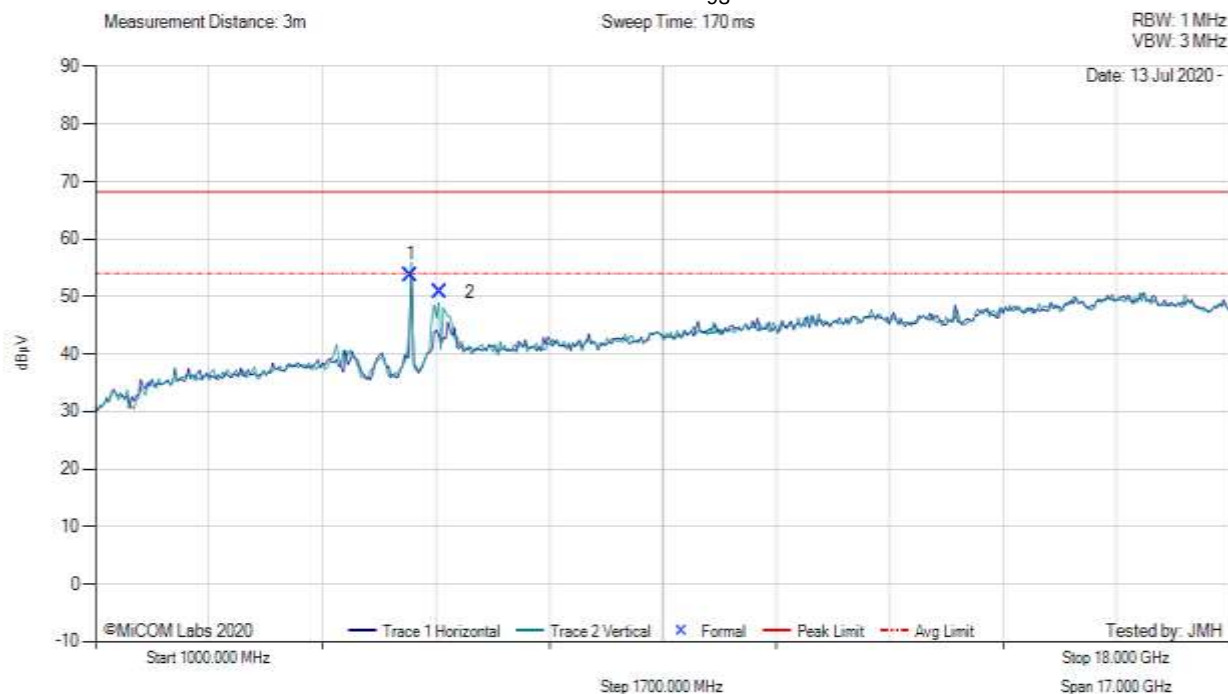
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 1.5, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5727.92	61.78	3.16	-11.21	53.73	Fundamental	Vertical	151	4	--	--	
2	6159.89	57.21	3.23	-9.74	50.70	Peak (NRB)	Vertical	148	2	--	--	Pass

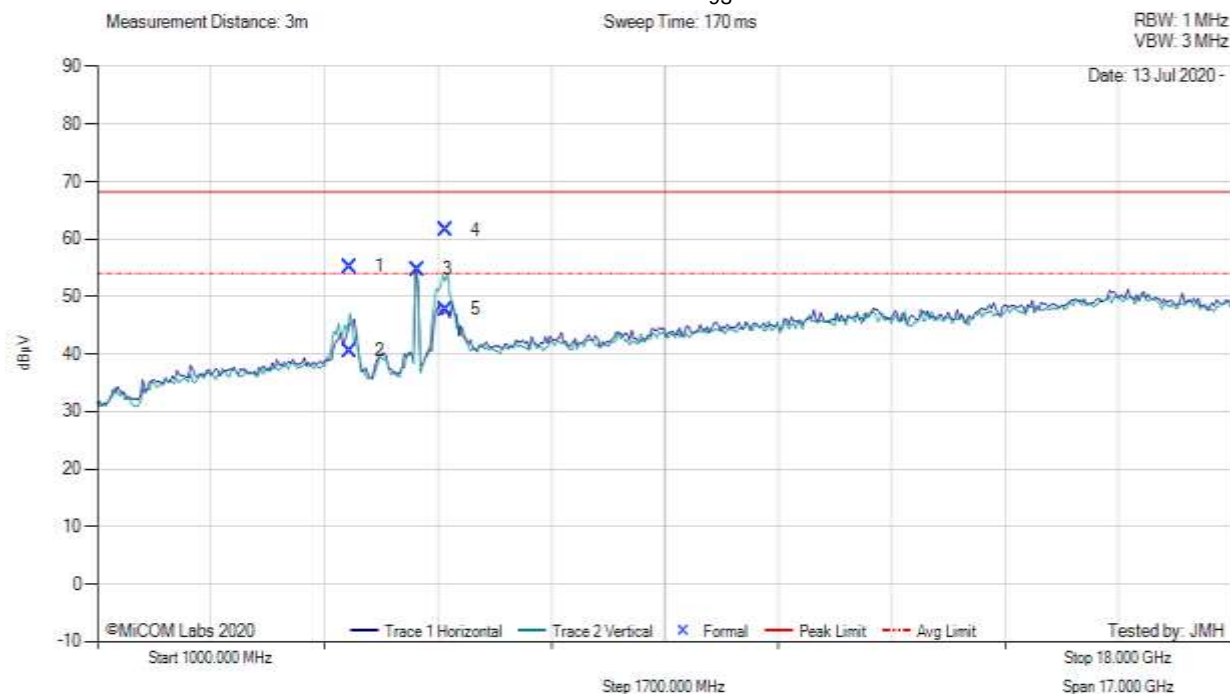
Test Notes: EUT Powered by POE. Power reduced to meet Band Edge limit.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 7.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4776.50	64.73	2.89	-12.46	55.16	Max Peak	Vertical	164	8	68.2	-13.1	Pass
2	4776.50	50.19	2.89	-12.46	40.62	Max Avg	Vertical	164	8	54.0	-13.4	Pass
3	5791.31	62.43	3.14	-10.87	54.70	Fundamental	Vertical	151	4	--	--	
4	6220.31	67.88	3.32	-9.62	61.58	Max Peak	Vertical	158	9	68.2	-6.7	Pass

Test Notes: EUT powered by POE. 5 GHz notch in front of amp to prevent overload

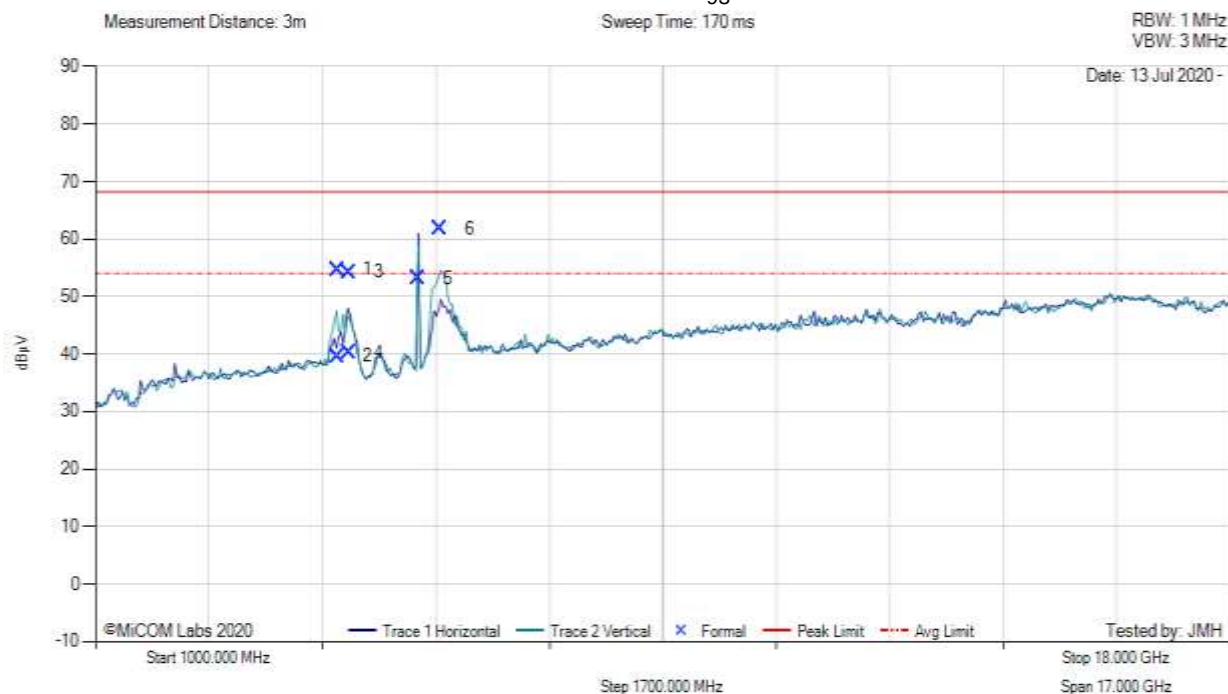
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 5.5, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4625.16	64.21	2.78	-12.25	54.74	Max Peak	Vertical	162	9	68.2	-13.5	Pass
2	4625.16	49.11	2.78	-12.25	39.64	Max Avg	Vertical	162	9	54.0	-14.4	Pass
3	4803.88	63.80	2.85	-12.42	54.23	Max Peak	Horizontal	158	9	68.2	-14.0	Pass
4	4803.88	49.74	2.85	-12.42	40.17	Max Avg	Horizontal	158	9	54.0	-13.8	Pass
5	5832.00	60.82	3.15	-10.82	53.15	Fundamental	Horizontal	151	0	--	--	
6	6161.11	68.21	3.24	-9.73	61.72	Max Peak	Vertical	165	9	68.2	-6.5	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Power reduced to meet band edge limit.

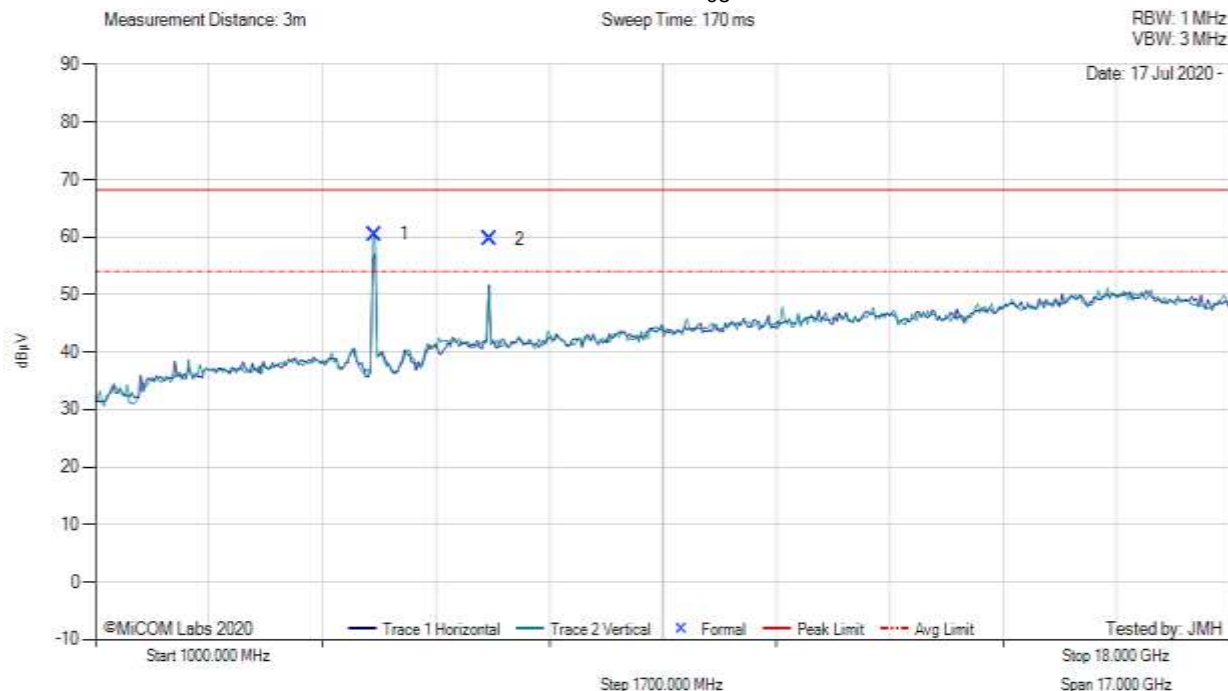
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A.1.1.5. RADWIN RW-9732-4958

TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5184.26	69.61	3.02	-12.20	60.43	Fundamental	Vertical	147	0	--	--	
2	6906.63	64.36	3.40	-8.09	59.67	Max Peak	Vertical	197	7	68.2	-8.5	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

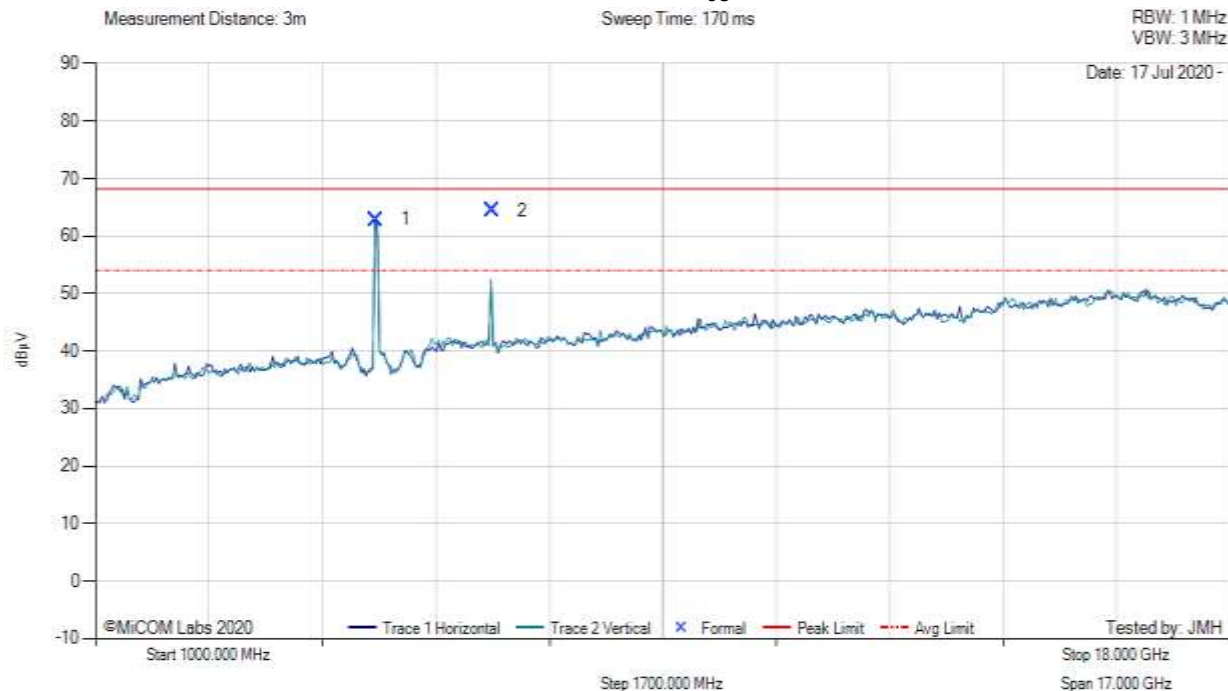
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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1.0, Duty Cycle (%):

93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5209.06	72.24	2.99	-12.38	62.85	Fundamental	Vertical	151	0	--	--	
2	6946.65	68.81	3.35	-7.80	64.36	Max Peak	Horizontal	178	358	68.2	-3.9	Pass

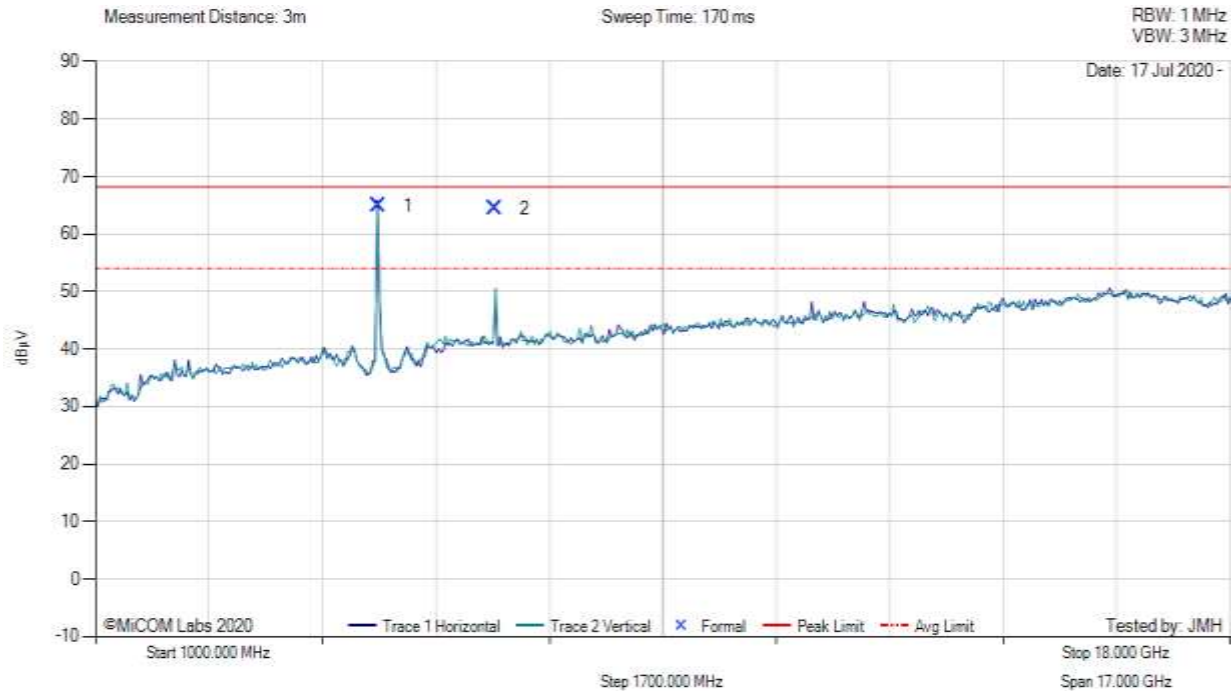
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5240.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5242.91	73.87	3.02	-12.03	64.86	Fundamental	Horizontal	151	0	--	--	
2	6986.68	68.83	3.46	-7.89	64.40	Max Peak	Horizontal	178	0	68.2	-3.8	Pass

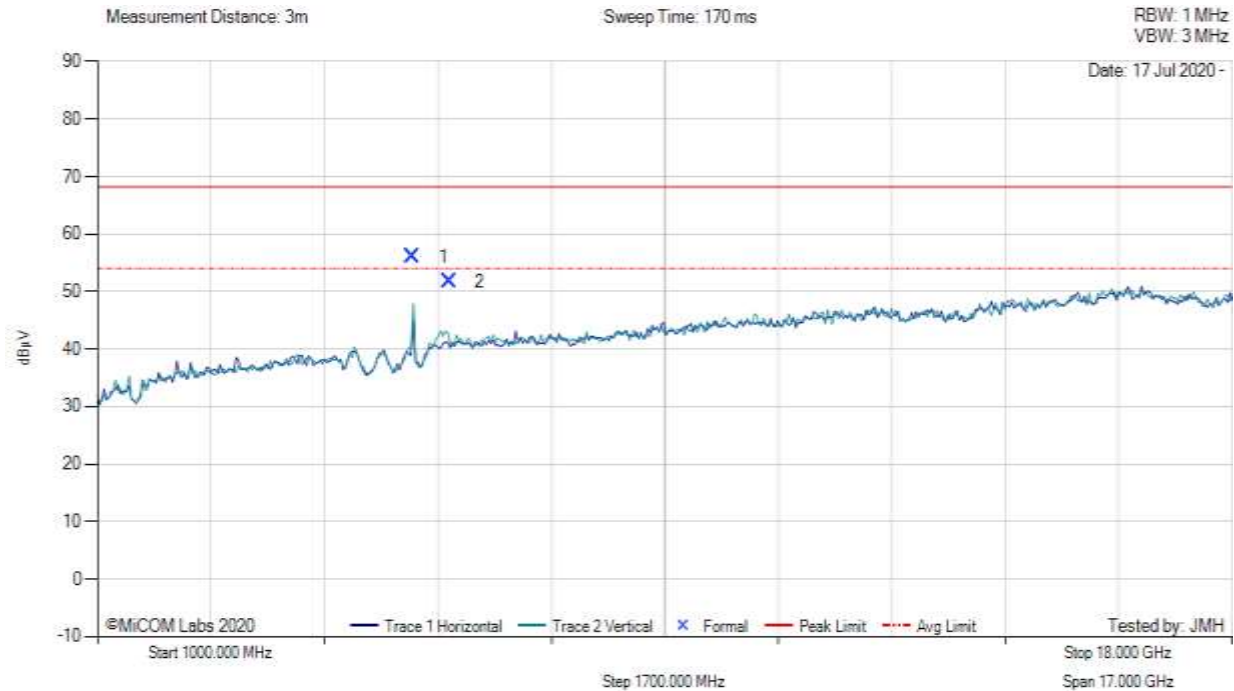
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5727.59	64.01	3.16	-11.21	55.96	Fundamental	Vertical	177	0	--	--	
2	6275.87	57.87	3.35	-9.48	51.74	Peak (NRB)	Vertical	177	0	--	--	Pass

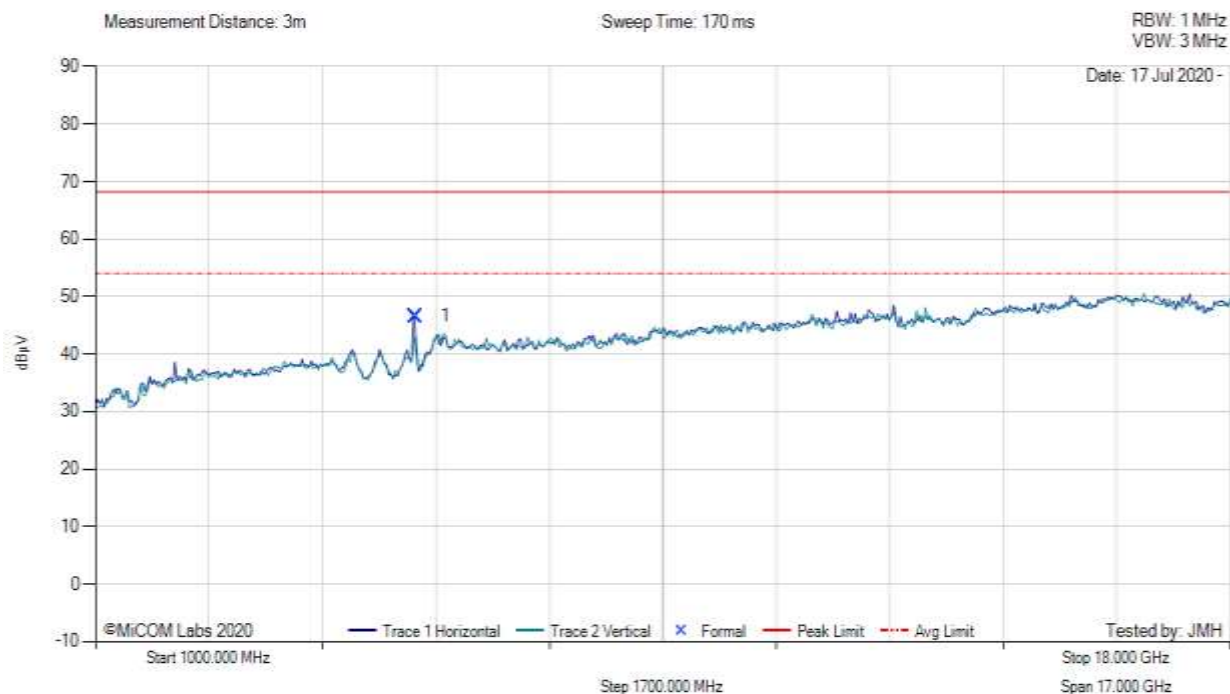
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5793.07	54.24	3.14	-10.82	46.56	Fundamental	Horizontal	151	0	--	--	

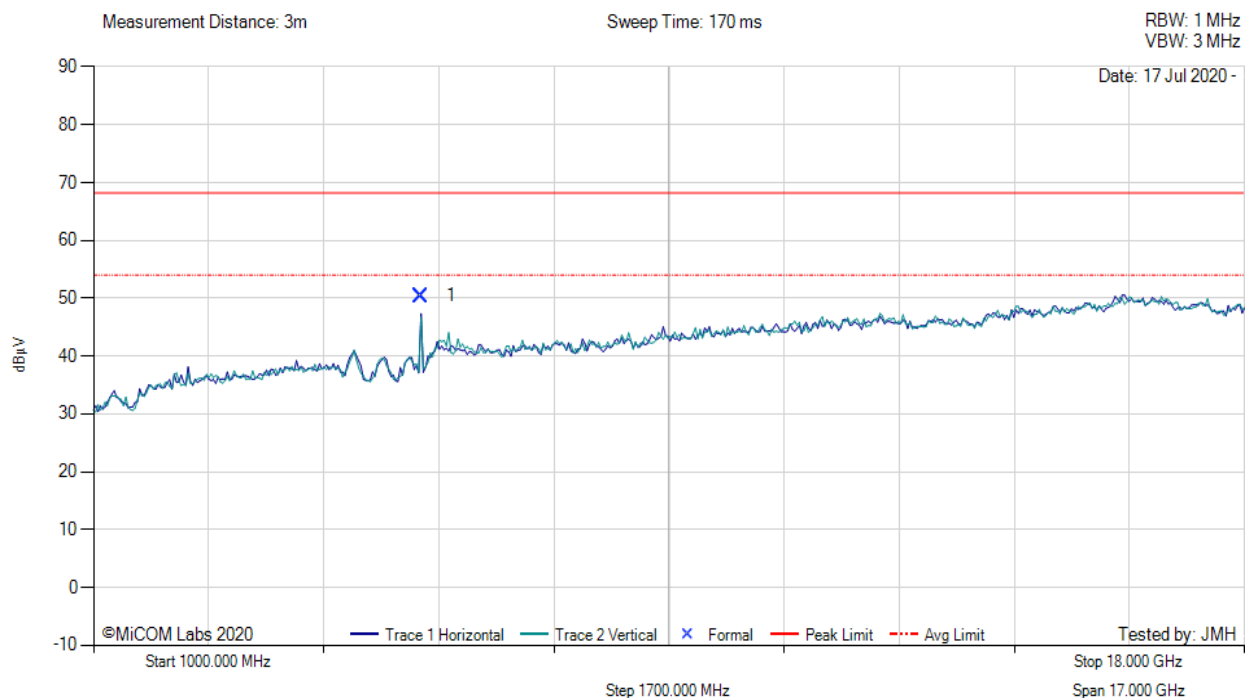
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5839.88	58.02	3.17	-10.76	50.43	Fundamental	Horizontal	165	0	--	--	

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload.

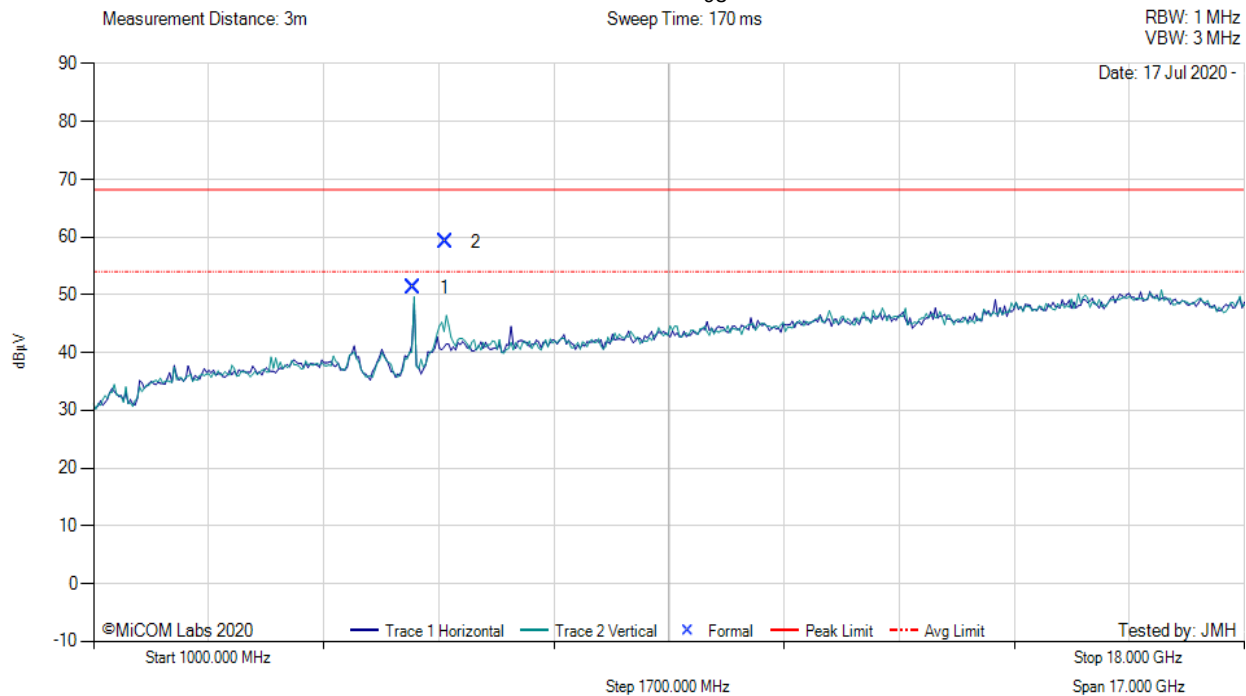
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Point to Point Operation



TX SPURIOUS & RESTRICTED BAND EMISSIONS

Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 2.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5729.46	59.29	3.16	-11.21	51.24	Fundamental	Vertical	149	0	--	--	
2	6193.43	65.59	3.27	-9.68	59.18	Max Peak	Vertical	171	2	68.2	-9.1	Pass

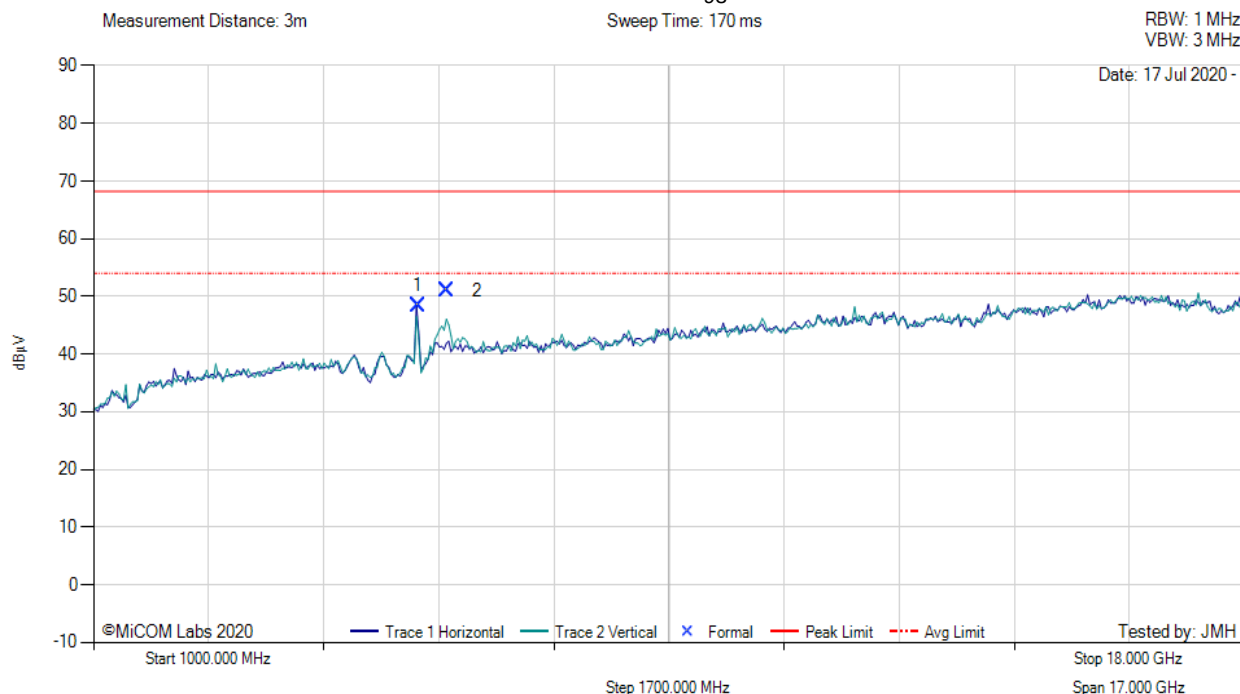
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 2.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5793.40	56.04	3.14	-10.82	48.36	Fundamental	Horizontal	151	0	--	--	
2	6216.55	57.39	3.30	-9.63	51.06	Peak (NRB)	Horizontal	174	0	--	--	Pass

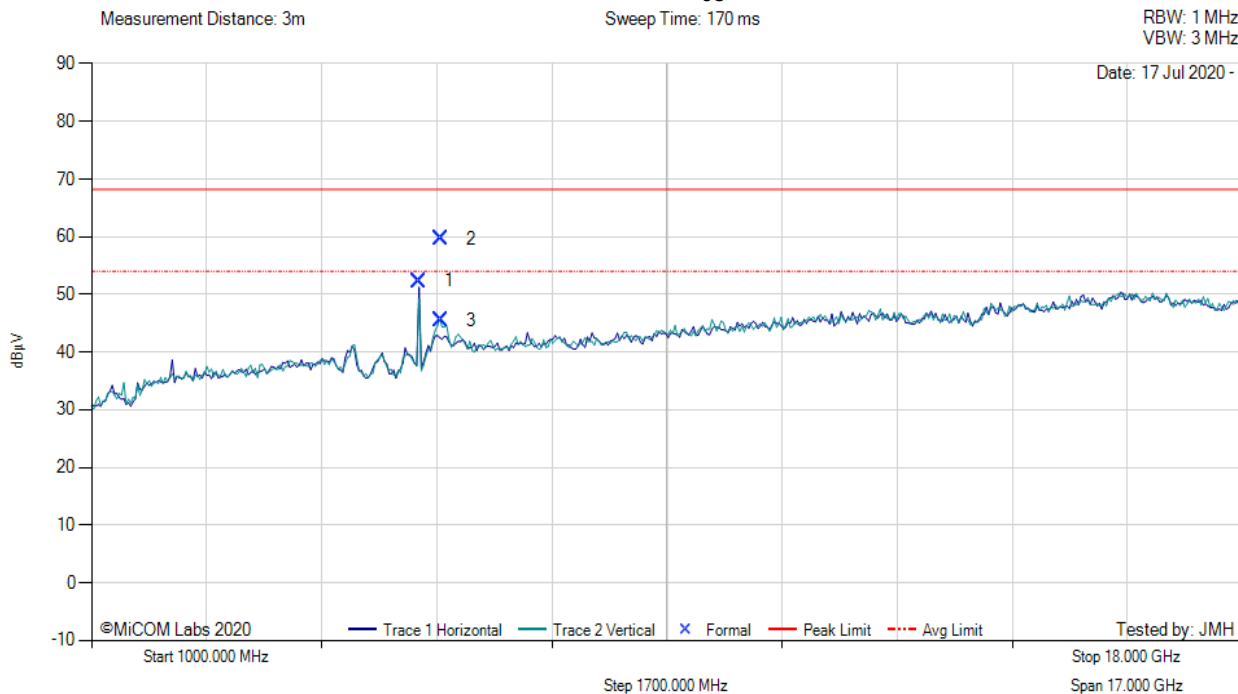
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 2.0, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5832.88	59.99	3.15	-10.81	52.33	Fundamental	Horizontal	153	0	--	--	
2	6162.65	66.04	3.24	-9.72	59.56	Max Peak	Vertical	183	0	68.2	-8.7	Pass
3	6162.65	52.00	3.24	-9.72	45.52	Max Avg	Vertical	183	0	54.0	-8.5	Pass

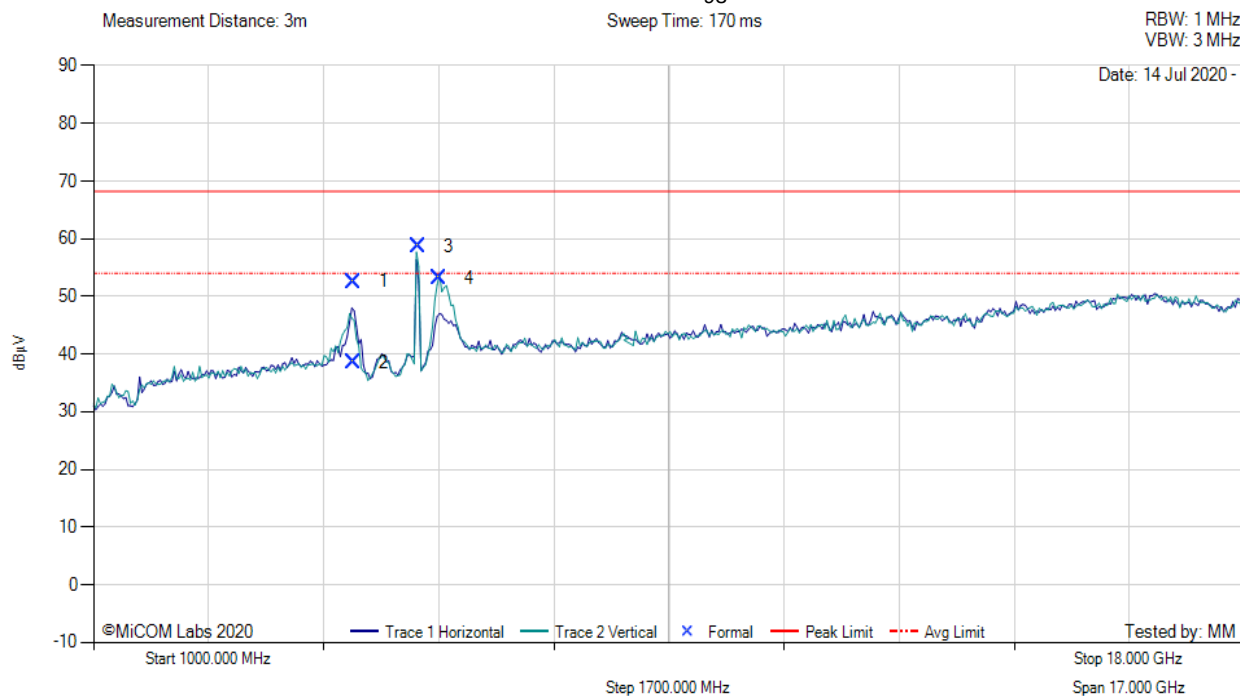
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation.

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5785.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 9.5, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4835.08	62.26	2.82	-12.53	52.55	Max Peak	Horizontal	171	3	68.2	-15.7	Pass
2	4835.08	48.20	2.82	-12.53	38.49	Max Avg	Horizontal	171	3	54.0	-15.5	Pass
3	5792.85	66.31	3.14	-10.82	58.63	Fundamental	Vertical	151	0	--	--	
4	6102.23	59.82	3.21	-9.88	53.15	Peak (NRB)	Vertical	148	0	--	--	Pass

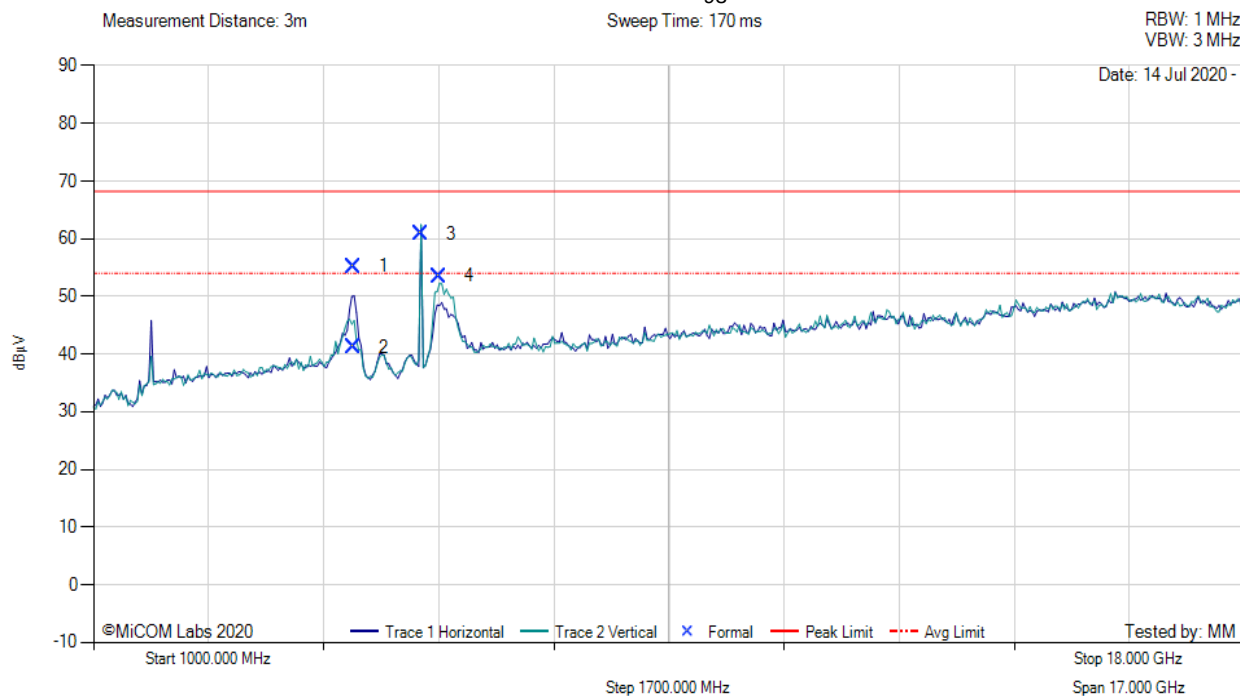
Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt -Pt operation

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TX SPURIOUS & RESTRICTED BAND EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 9.5, Duty Cycle (%): 93



1000.00 - 18000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	4837.19	64.96	2.81	-12.55	55.22	Max Peak	Horizontal	159	1	68.2	-13.0	Pass
2	4837.19	50.98	2.81	-12.55	41.24	Max Avg	Horizontal	159	1	54.0	-12.8	Pass
3	5836.24	68.41	3.16	-10.78	60.79	Fundamental	Vertical	151	0	--	--	
4	6100.25	60.22	3.21	-9.91	53.52	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: EUT powered by POE. 5G notch in front of amp to prevent overload. Pt to Pt operation.

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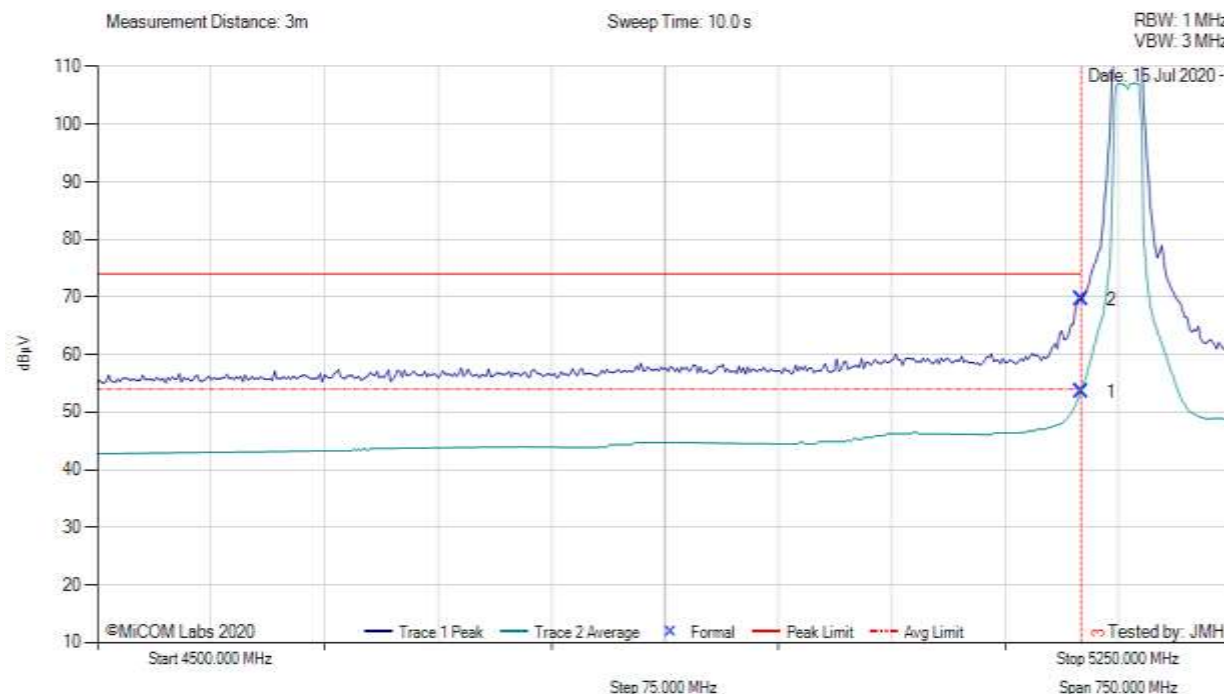
A.1.2. Restricted Edge & Band-Edge Emissions

A.1.2.6. RADWIN Integrated



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN Integrated, Power Setting: 15.5, Duty Cycle (%): 93



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	16.43	2.93	34.21	53.57	Max Avg	Vertical	168	46	54.0	-0.4	Pass
2	5150.00	32.48	2.93	34.21	69.62	Max Peak	Vertical	168	46	74.0	-4.4	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

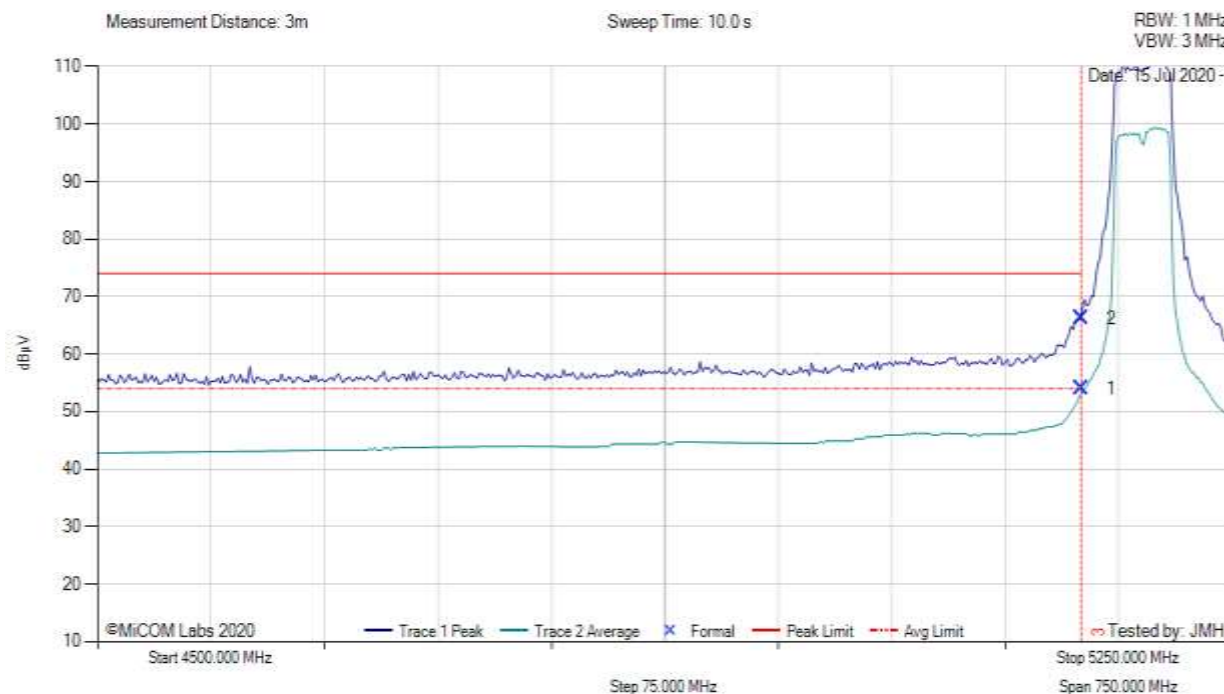
Test Notes: EUT powered by POE. DCCF of 0.32 added to average measurement.

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RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 40MHz, Test Freq: 5190.00 MHz, Antenna: RADWIN Integrated, Power Setting: 10.0, Duty Cycle (%): 87



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	16.19	2.93	34.21	53.93	Max Avg	Vertical	168	46	54.0	-0.1	Pass
2	5150.00	29.04	2.93	34.21	66.18	Max Peak	Vertical	168	46	74.0	-7.8	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

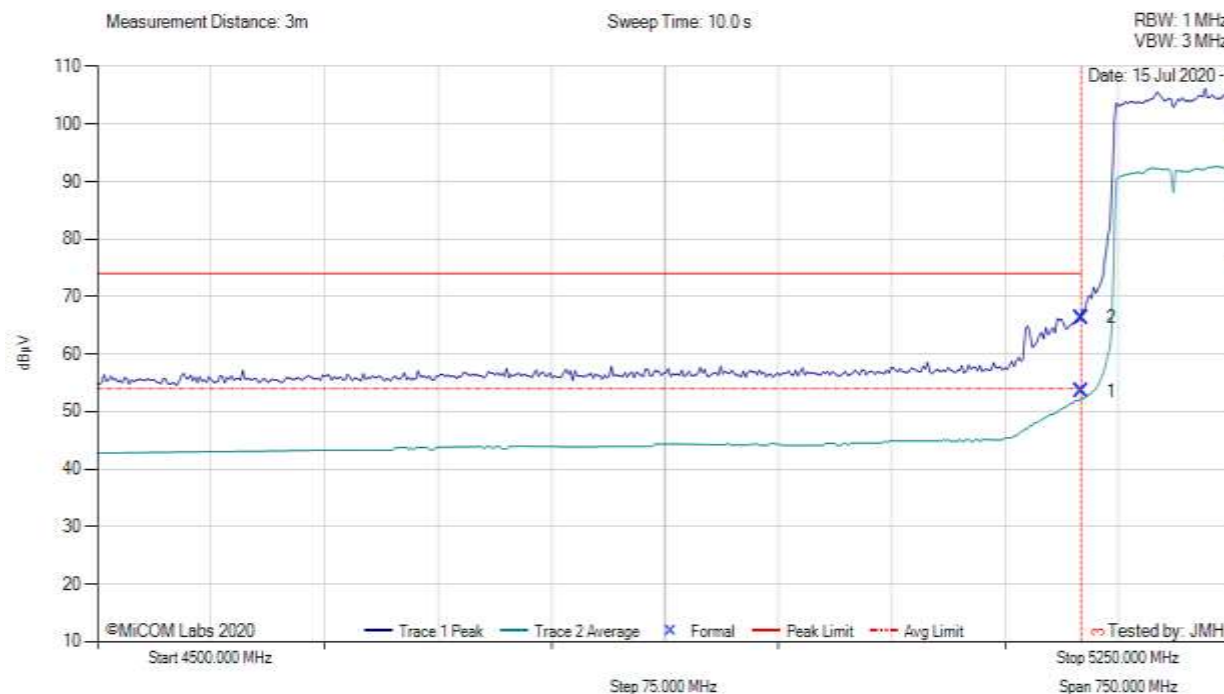
Test Notes: EUT powered by POE. DCCF of 0.60 added to average measurement.

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RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN Integrated, Power Setting: 7.5, Duty Cycle (%): 73



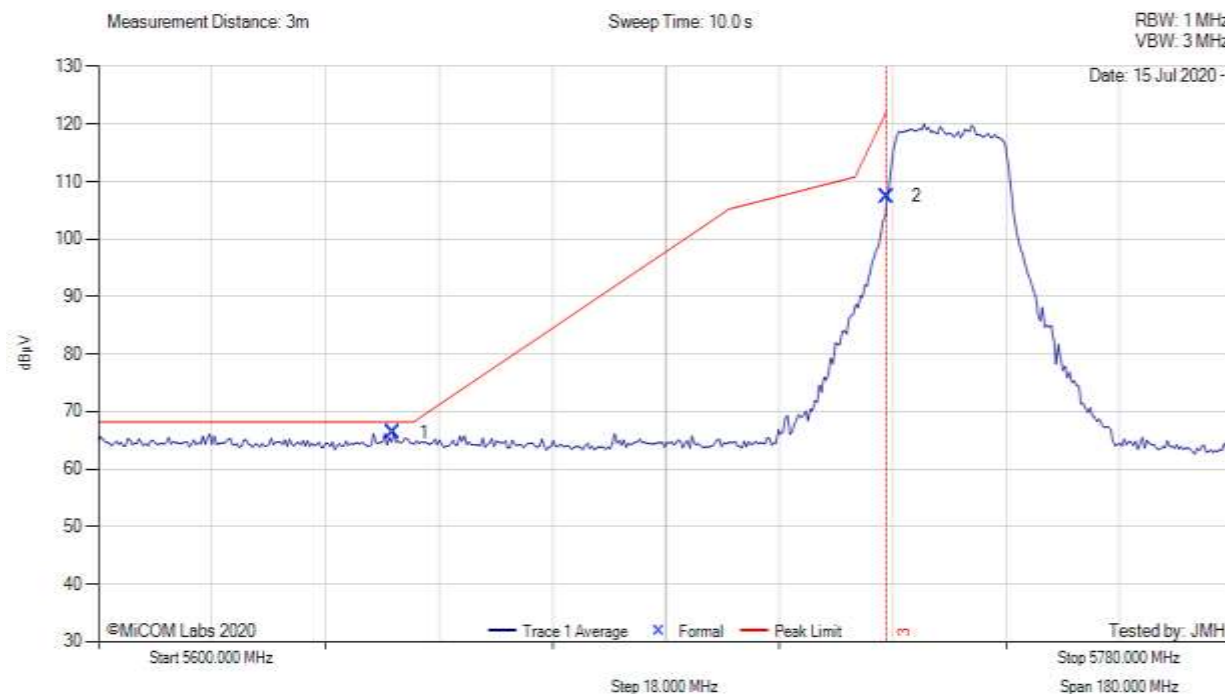
4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	16.33	2.93	34.21	53.47	Max Avg	Vertical	168	46	54.0	-0.5	Pass
2	5150.00	29.16	2.93	34.21	66.30	Max Peak	Vertical	168	46	74.0	-7.7	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
Test Notes: EUT powered by POE. DCCF of 1.4 added to average measurement.												

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5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17, Duty Cycle (%): 93



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5646.82	28.68	3.08	34.63	66.39	Max Peak	Vertical	165	45	68.2	-1.8	Pass
2	5725.00	69.48	3.19	34.72	107.39	Max Peak	Vertical	165	45	122.2	-14.8	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

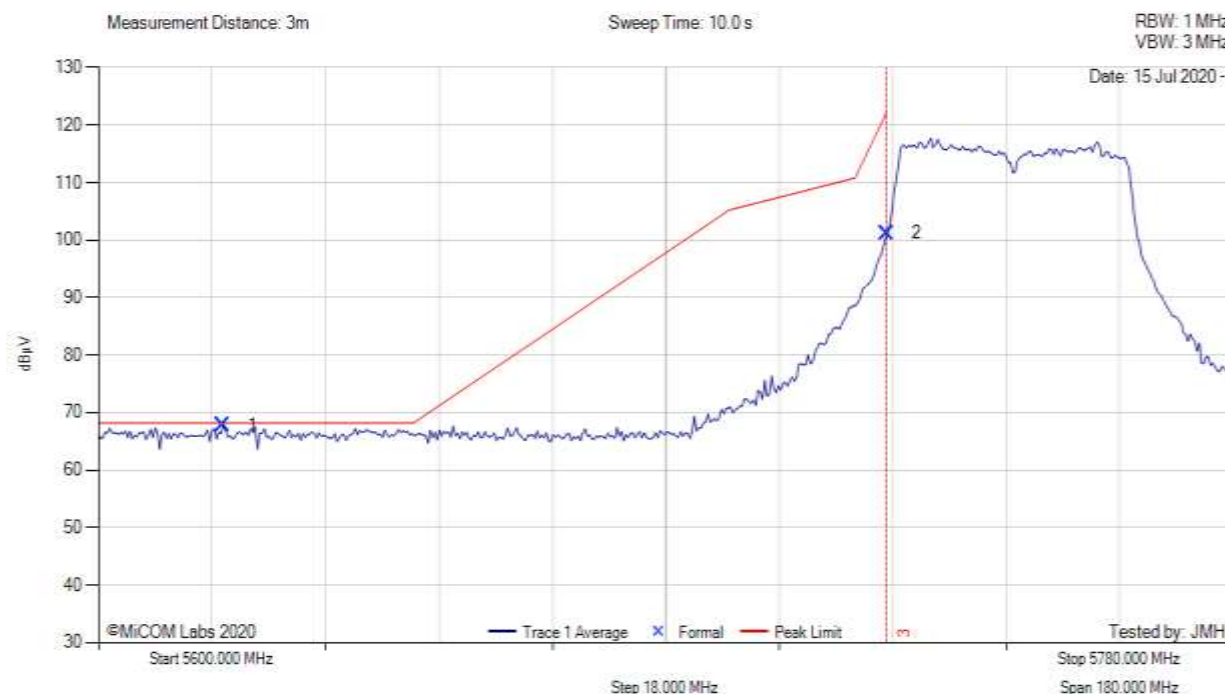
Test Notes: EUT powered by POE.

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5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 40MHz, Test Freq: 5745.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17, Duty Cycle (%): 87



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5619.77	30.02	3.12	34.65	67.79	Max Peak	Vertical	165	45	68.2	-0.4	Pass
2	5725.00	63.24	3.19	34.72	101.15	Max Peak	Vertical	165	45	122.2	-21.1	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

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5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5765.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17, Duty Cycle (%): 73



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5621.21	30.09	3.12	34.64	67.85	Max Avg	Horizontal	165	45	68.2	-0.4	Pass
2	5669.09	37.29	3.21	34.65	75.15	Max Avg	Horizontal	165	45	82.3	-7.1	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

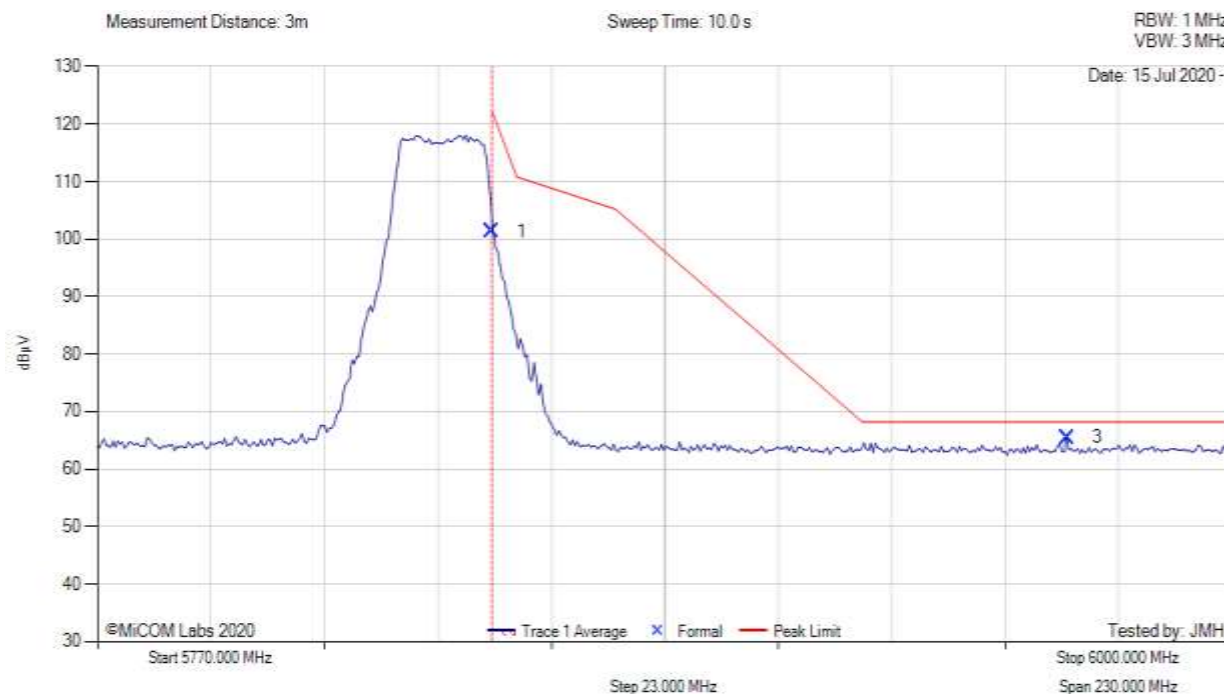
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17, Duty Cycle (%): 93



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	63.11	3.24	34.96	101.31	Max Peak	Vertical	165	45	122.2	-20.9	Pass
3	5966.47	27.20	3.17	35.16	65.53	Max Peak	Vertical	165	45	68.2	-2.7	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

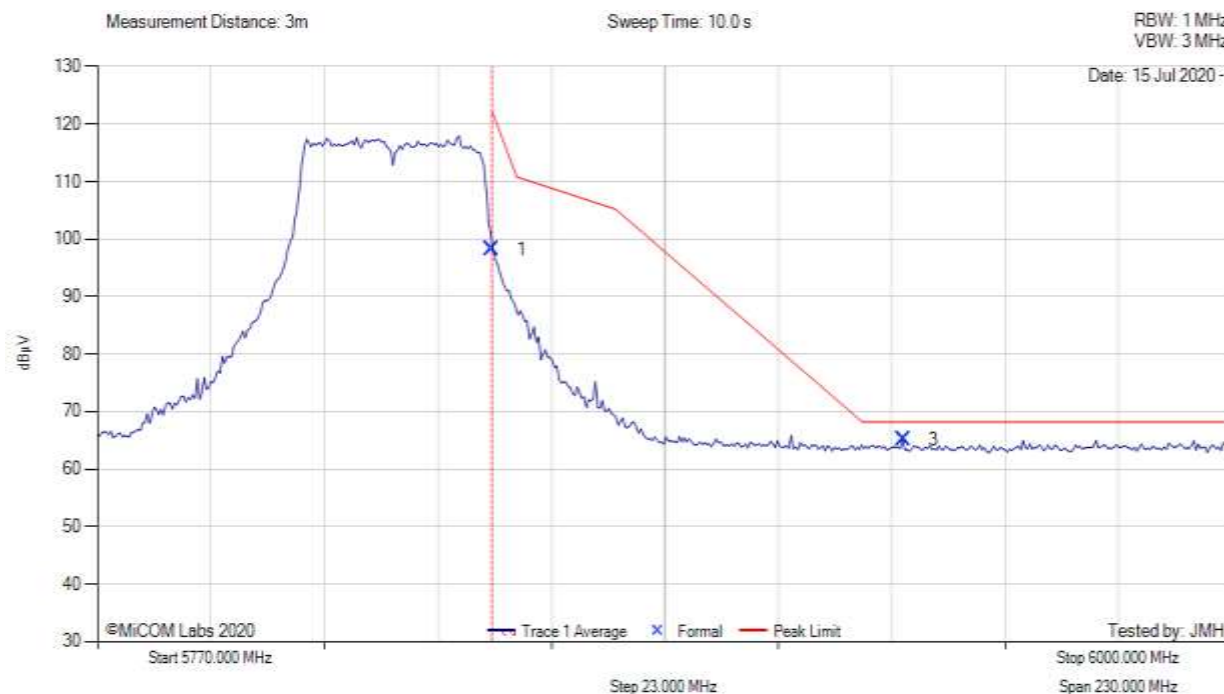
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 40MHz, Test Freq: 5830.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17, Duty Cycle (%): 87



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	60.00	3.24	34.96	98.20	Max Peak	Vertical	165	45	122.2	-24.0	Pass
3	5933.29	26.80	3.21	35.11	65.12	Max Peak	Vertical	165	45	68.2	-3.1	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

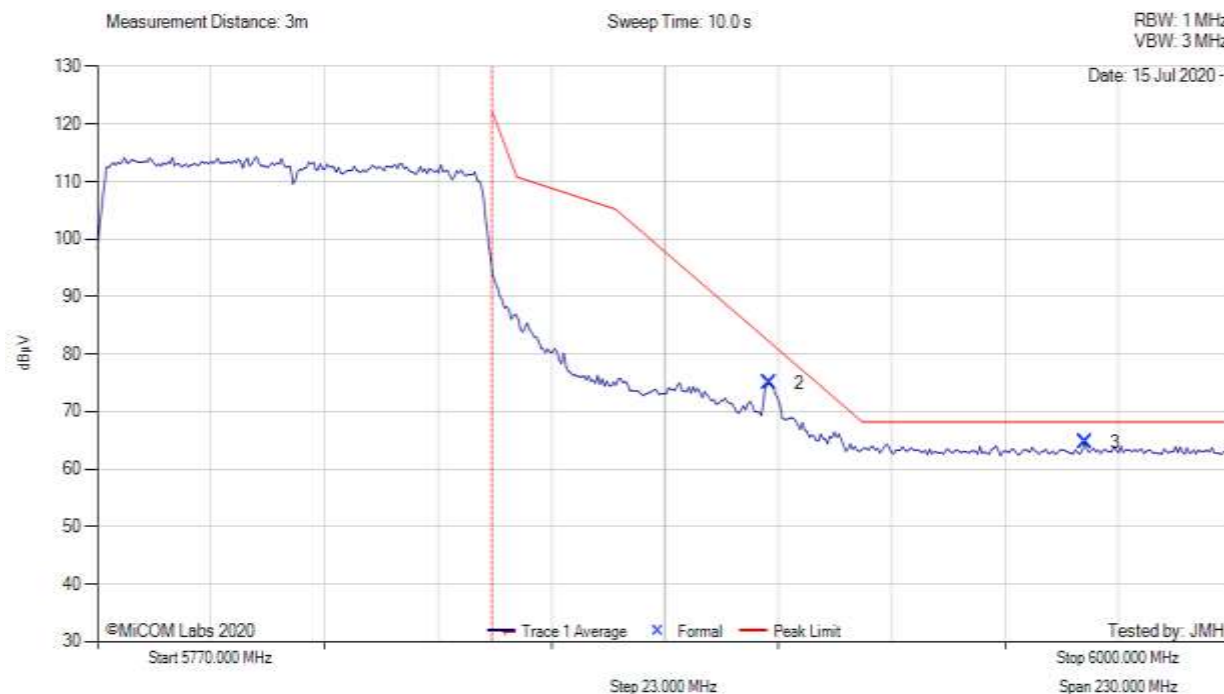
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5810.00 MHz, Antenna: RADWIN Integrated, Power Setting: 17, Duty Cycle (%): 73



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5906.23	36.57	3.24	35.10	74.91	Max Peak	Vertical	165	45	81.5	-6.6	Pass
3	5970.16	26.24	3.17	35.17	64.58	Max Peak	Vertical	165	45	68.2	-3.7	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

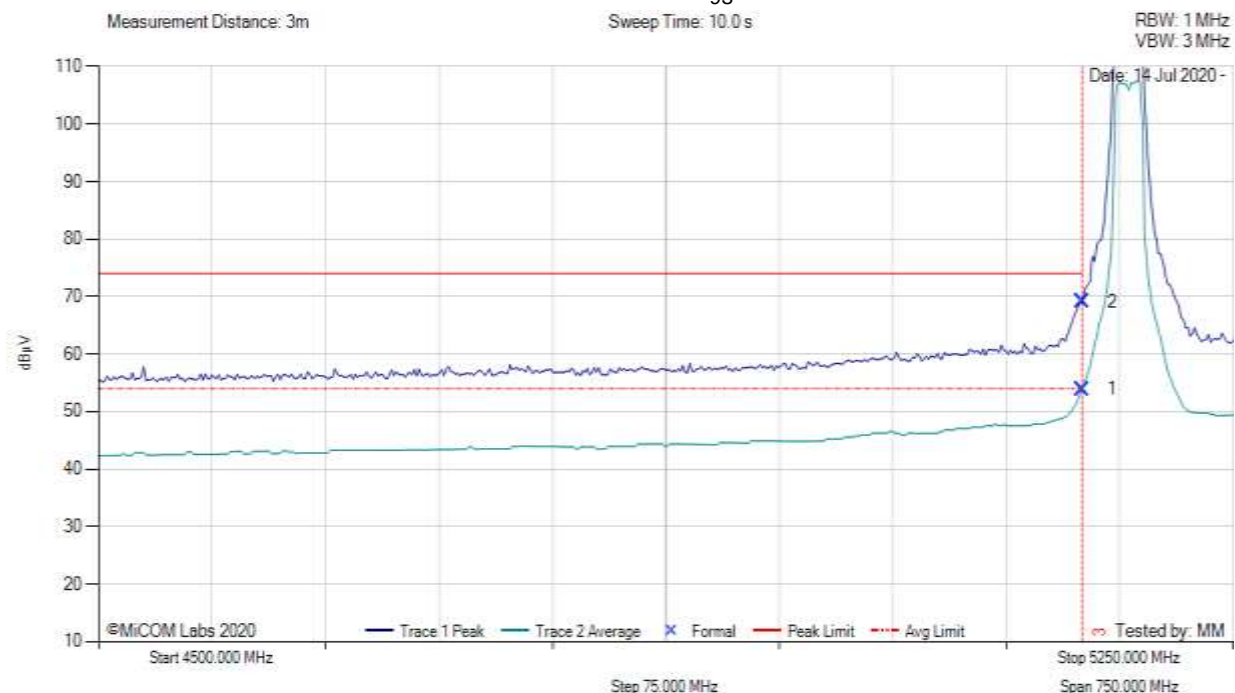
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A.1.2.7. RADWIN RW-9061-5002

RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 11.0, Duty Cycle (%): 93



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	16.70	2.93	34.21	53.84	Max Avg	Horizontal	163	16	54.0	-0.2	Pass
2	5150.00	31.97	2.93	34.21	69.11	Max Peak	Horizontal	163	16	74.0	-4.9	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 0.32 for average measurement.

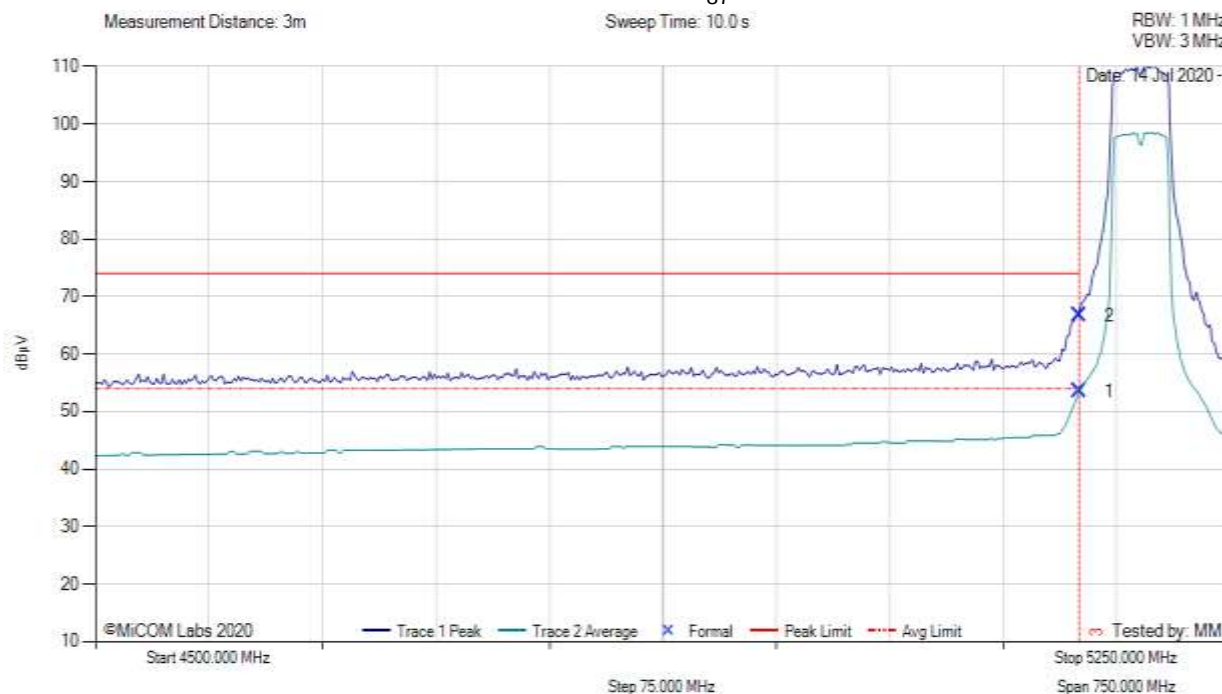
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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5190.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 5.5, Duty Cycle (%):

87



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	16.43	2.93	34.21	53.57	Max Avg	Horizontal	163	16	54.0	-0.4	Pass
2	5150.00	29.58	2.93	34.21	66.72	Max Peak	Horizontal	163	16	74.0	-7.3	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--
Test Notes: EUT powered by POE. DCCF 0.6 for average measurement.												

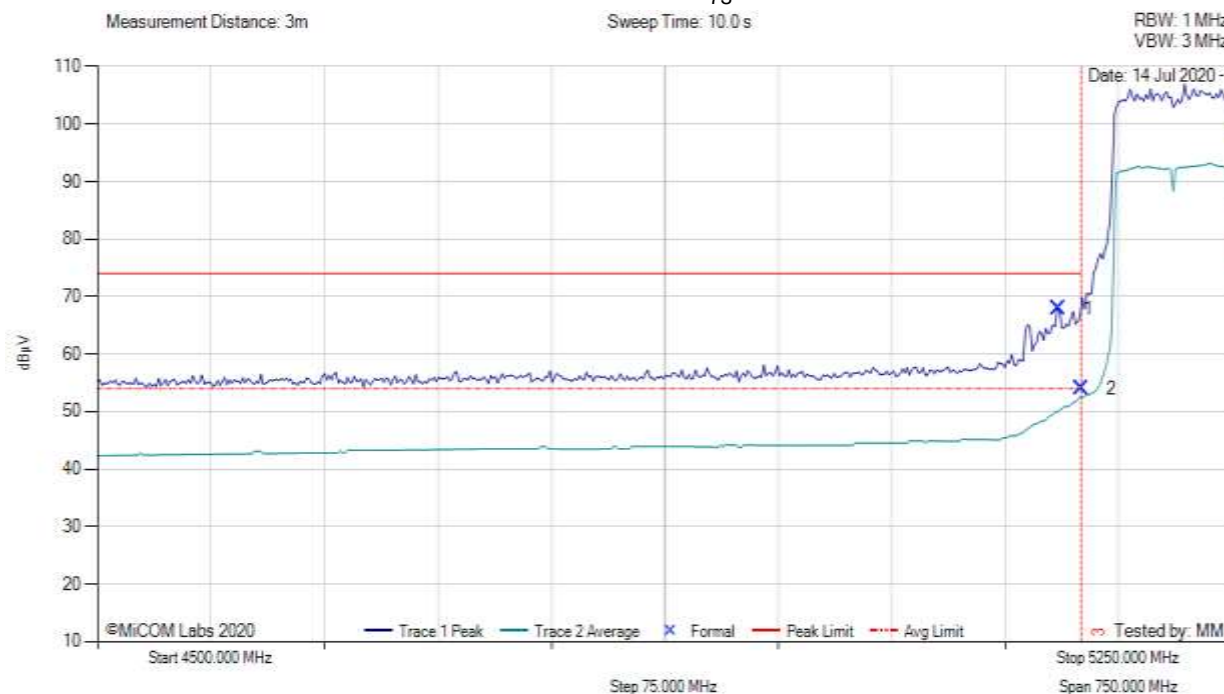
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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 3.5, Duty Cycle (%):

73



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5134.97	30.75	2.99	34.18	67.92	Max Peak	Horizontal	163	16	74.0	-6.1	Pass
2	5150.00	16.79	2.93	34.21	53.93	Max Avg	Horizontal	163	16	54.0	-0.1	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

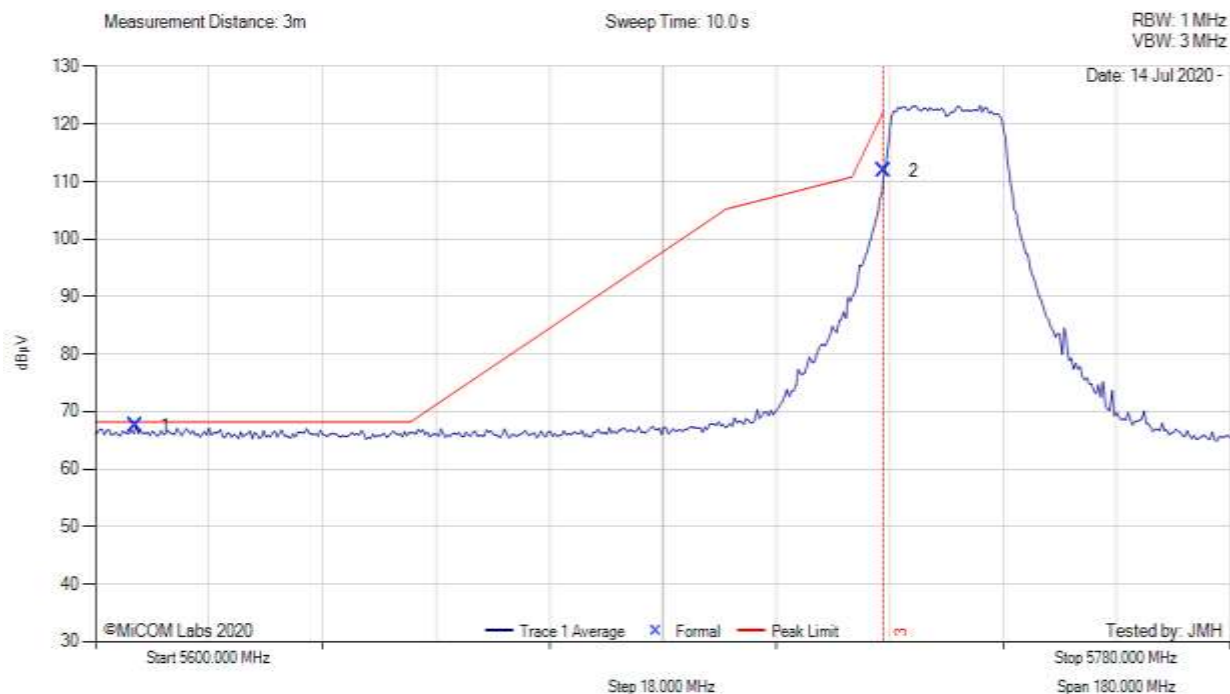
Test Notes: EUT powered by POE. DCCF 1.4 for average measurement.

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5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16, Duty Cycle (%): 93



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5606.42	29.82	3.08	34.65	67.55	Max Peak	Horizontal	167	6	68.2	-0.7	Pass
2	5725.00	73.97	3.19	34.72	111.88	Max Peak	Horizontal	167	6	122.2	-10.3	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

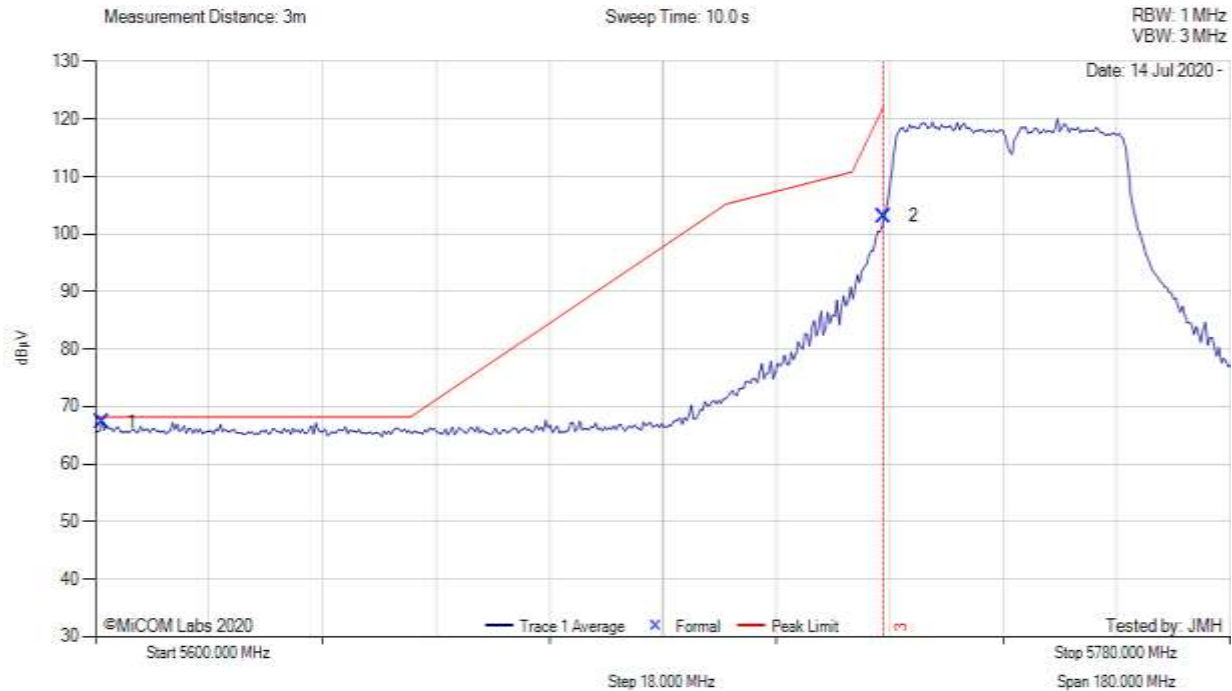
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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5745.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 14.5, Duty Cycle (%):

93



5600.00 - 5780.00 MHz

Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5601.01	29.59	3.11	34.65	67.35	Max Peak	Horizontal	167	6	68.2	-0.9	Pass
2	5725.00	65.18	3.19	34.72	103.09	Max Peak	Horizontal	167	6	122.2	-19.1	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

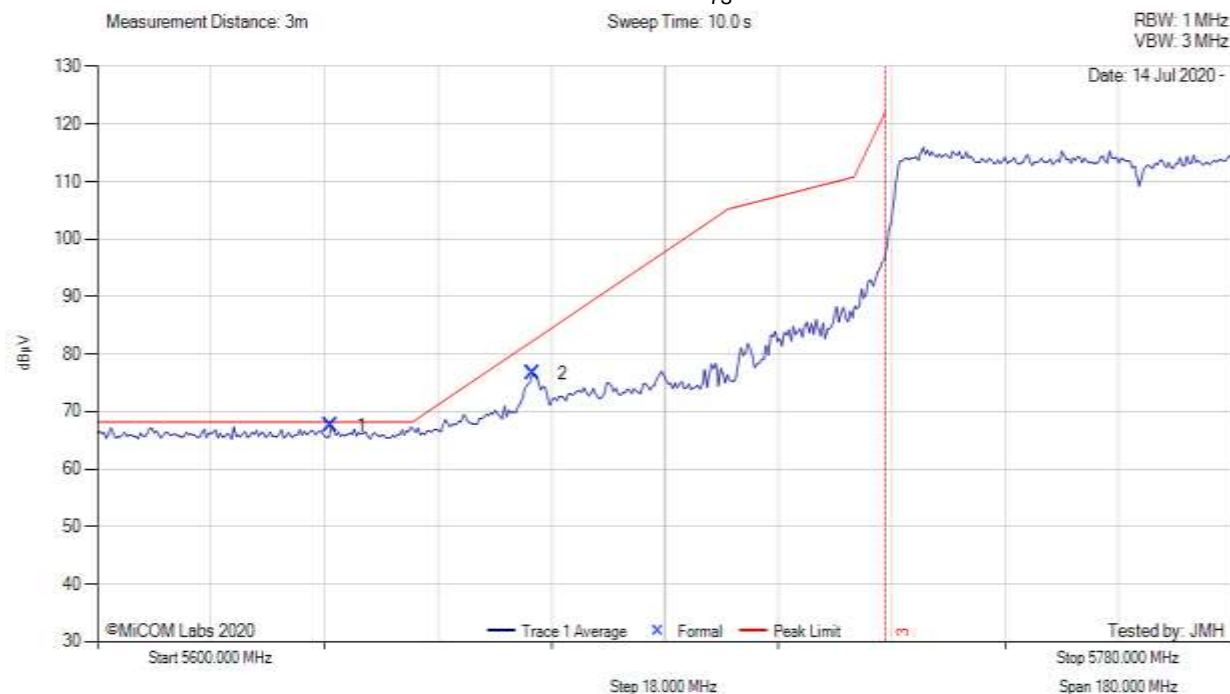
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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5765.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 13.5, Duty Cycle (%):

73



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5637.08	29.80	3.11	34.64	67.55	Max Peak	Horizontal	167	6	68.2	-0.7	Pass
2	5669.09	38.70	3.21	34.65	76.56	Max Peak	Horizontal	167	6	82.3	-5.7	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

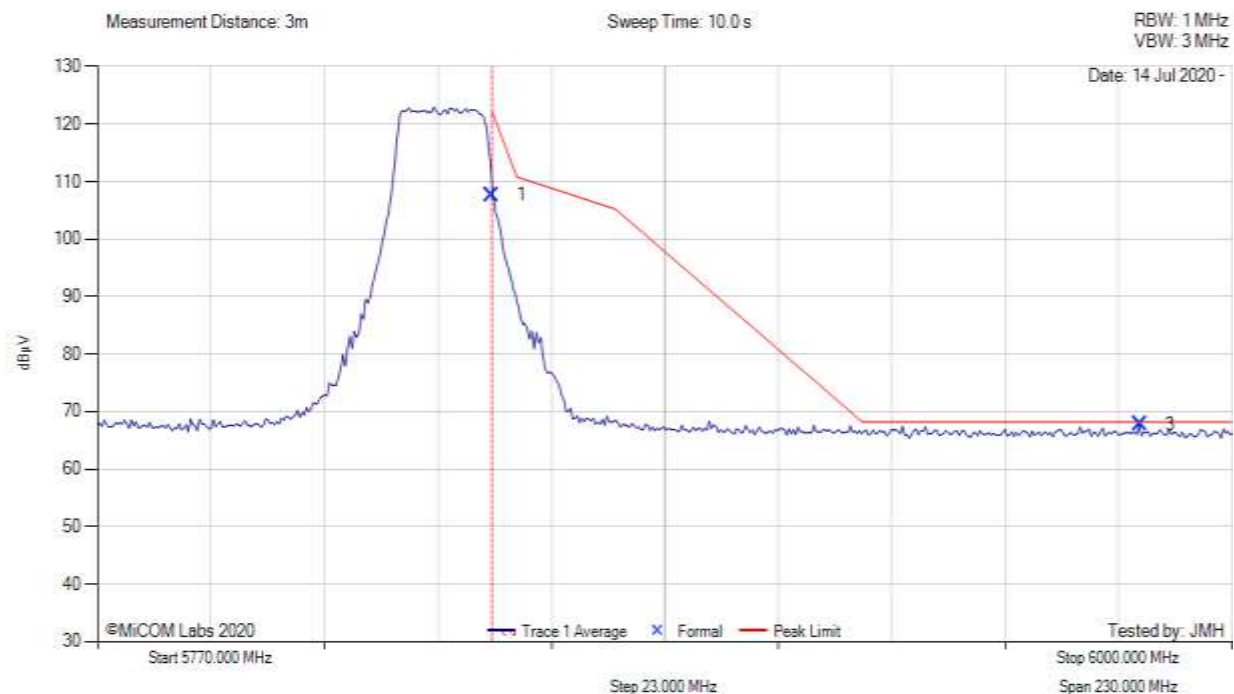
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16, Duty Cycle (%): 93



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	69.44	3.24	34.96	107.64	Max Peak	Horizontal	167	6	122.2	-14.6	Pass
3	5981.22	29.32	3.21	35.19	67.72	Max Peak	Horizontal	167	6	68.2	-0.5	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

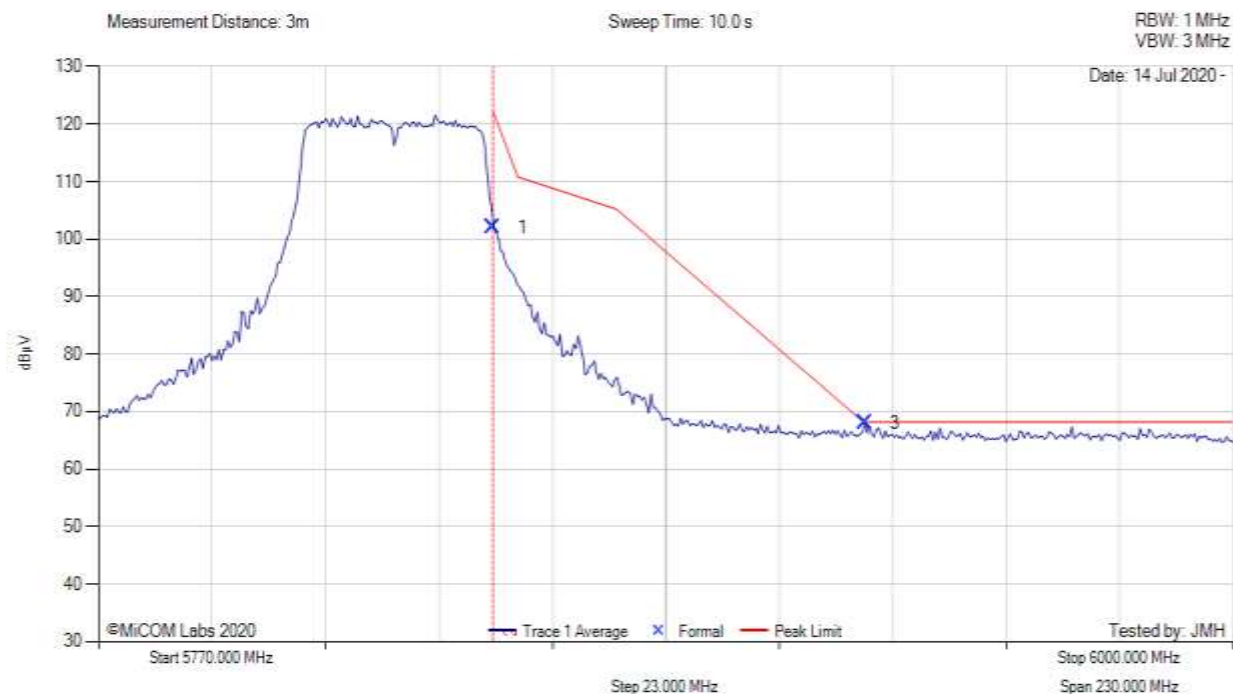
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 40MHz, Test Freq: 5830.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 16, Duty Cycle (%): 87



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	63.84	3.24	34.96	102.04	Max Peak	Horizontal	167	6	122.2	-20.2	Pass
3	5925.33	29.73	3.17	35.11	68.01	Max Peak	Horizontal	167	6	68.2	-0.2	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

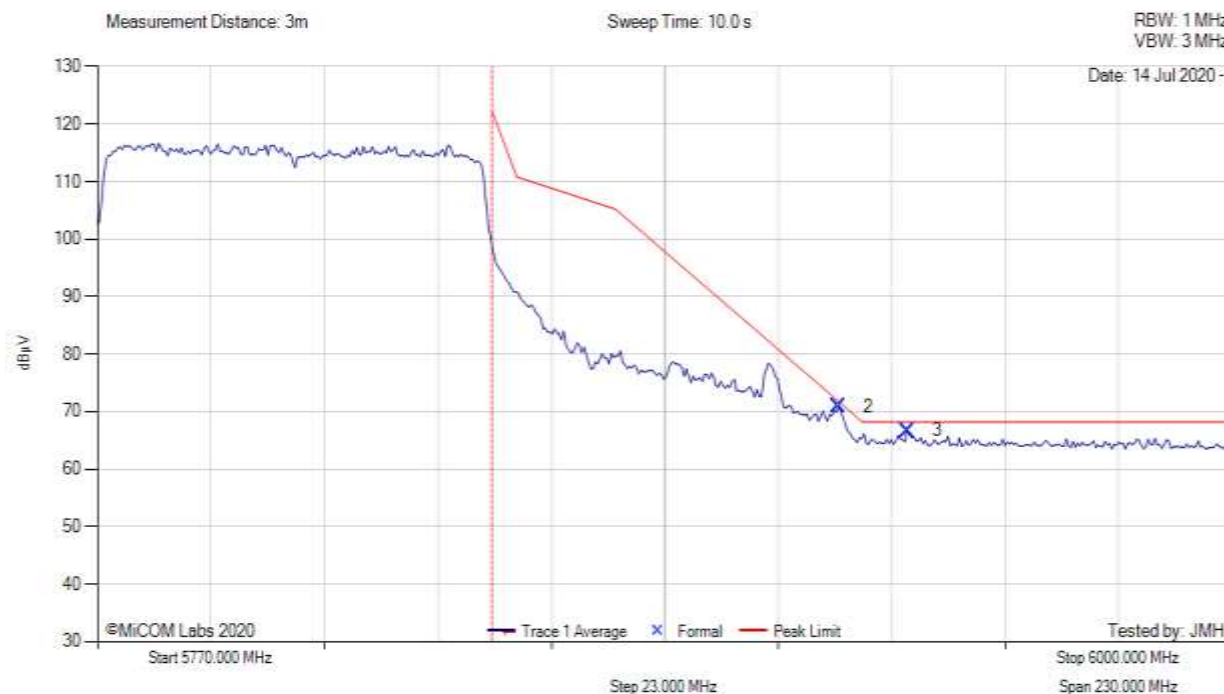
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5810.00 MHz, Antenna: RADWIN RW-9061-5002, Power Setting: 14, Duty Cycle (%): 73



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5920.06	32.61	3.16	35.11	70.88	Max Peak	Horizontal	167	6	71.8	-0.9	Pass
3	5934.21	28.36	3.22	35.11	66.69	Max Peak	Horizontal	167	6	68.2	-1.5	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

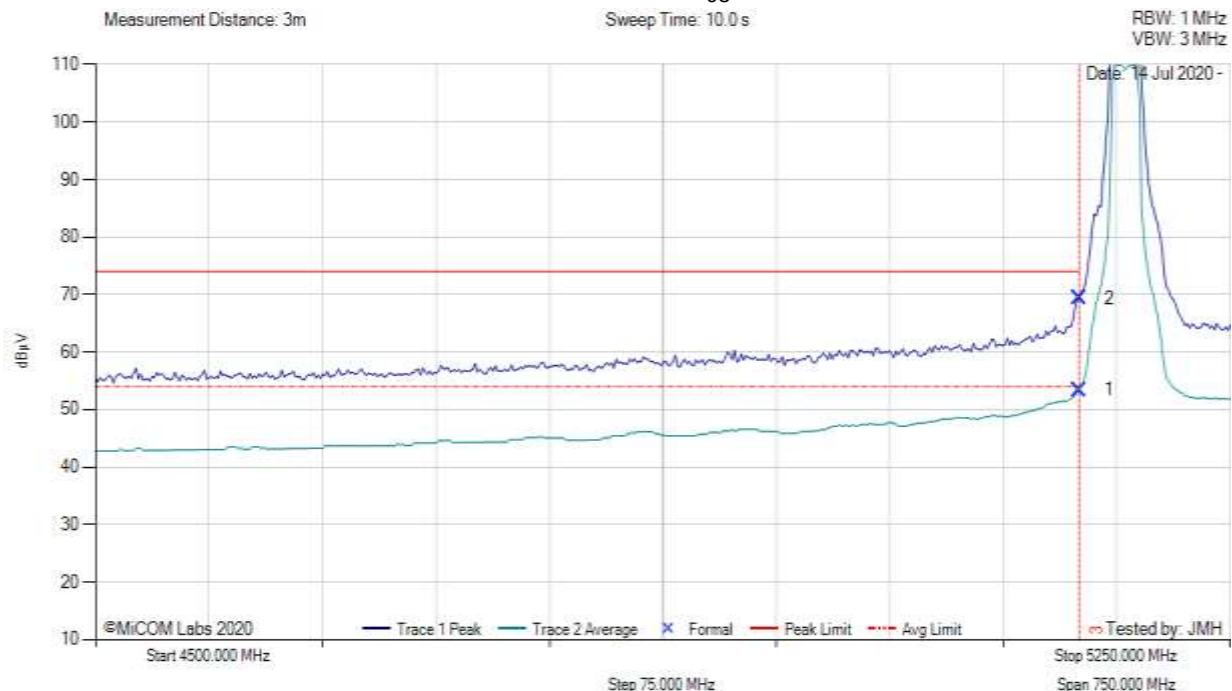
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A.1.2.8. RADWIN RW-9613-4960

RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 7.5, Duty Cycle (%): 93



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	16.29	2.93	34.21	53.43	Max Avg	Vertical	162	1	54.0	-0.6	Pass
2	5150.00	32.19	2.93	34.21	69.33	Max Peak	Vertical	162	1	74.0	-4.7	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 0.32 dB added to average measurement.

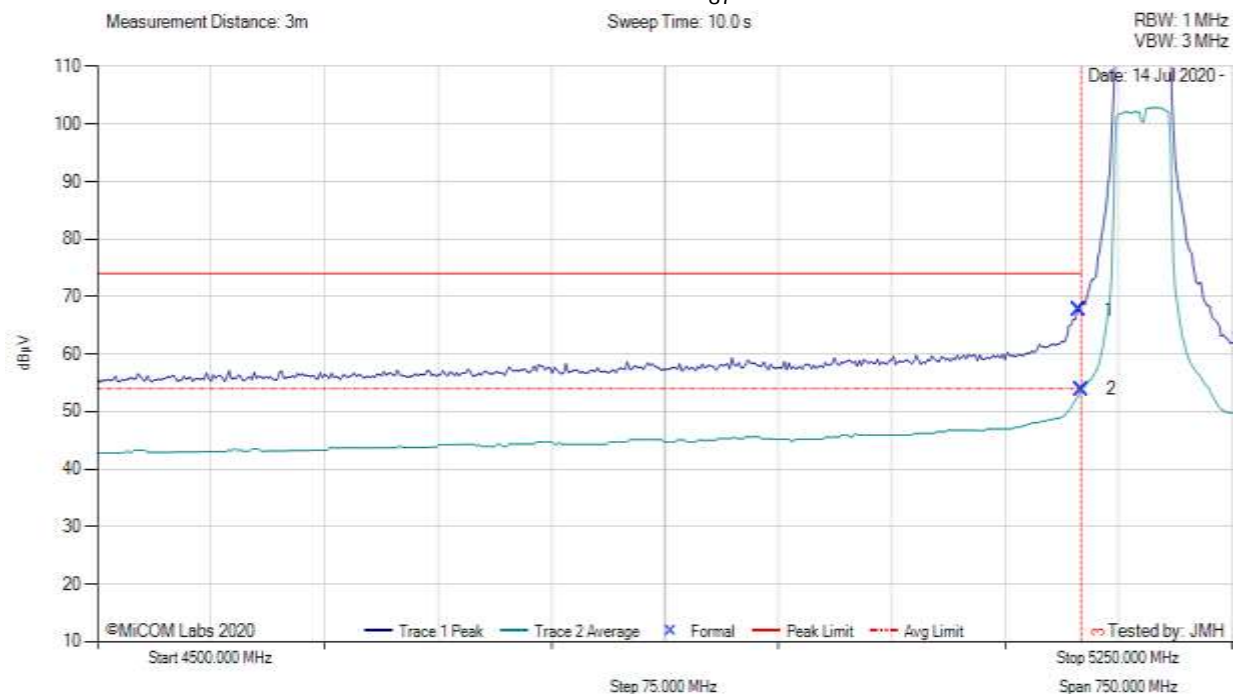
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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5190.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 2.5, Duty Cycle (%):

87



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5148.50	30.56	2.91	34.21	67.68	Max Peak	Vertical	162	1	74.0	-6.3	Pass
2	5150.00	16.71	2.93	34.21	53.85	Max Avg	Vertical	162	1	54.0	-0.2	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 0.6 added to average measurement.

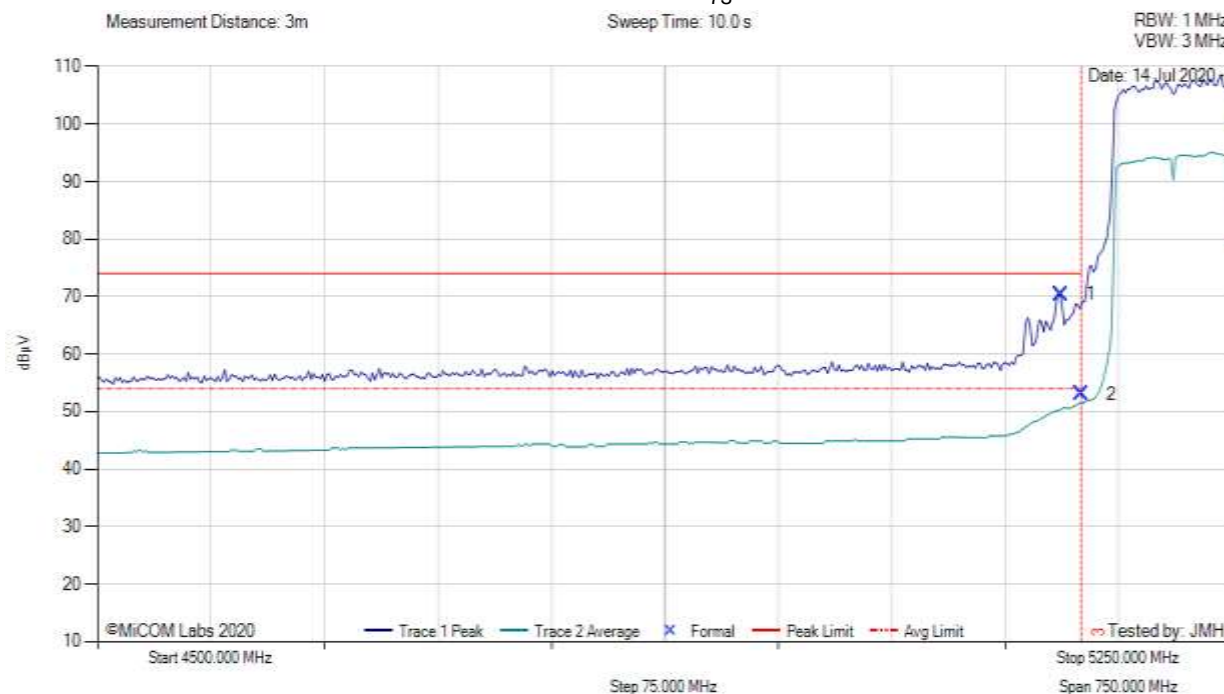
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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: -3.0, Duty Cycle (%):

73



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5136.47	33.25	3.00	34.19	70.44	Max Peak	Vertical	162	1	74.0	-3.6	Pass
2	5150.00	15.84	2.93	34.21	52.98	Max Avg	Vertical	162	1	54.0	-1.0	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF 1.4 added to average measurement.

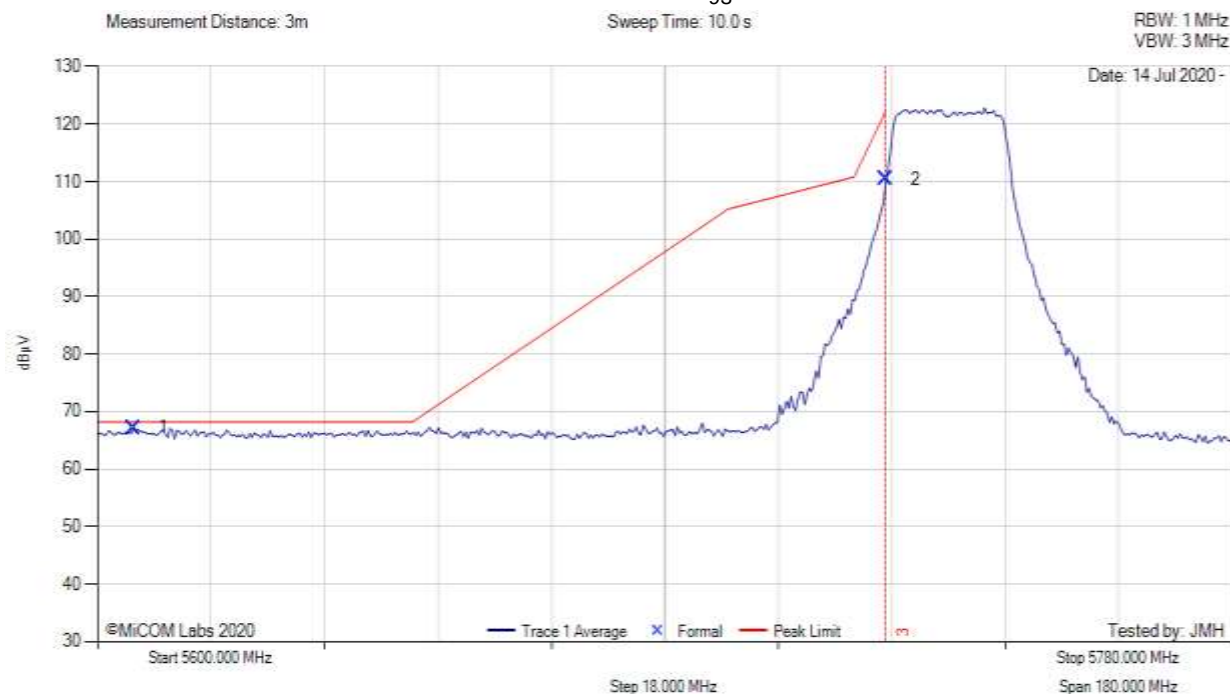
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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 7.5, Duty Cycle (%):

93



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5605.70	29.48	3.08	34.65	67.21	Max Peak	Vertical	160	2	68.2	-1.0	Pass
2	5725.00	72.57	3.19	34.72	110.48	Max Peak	Vertical	160	2	122.2	-11.7	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

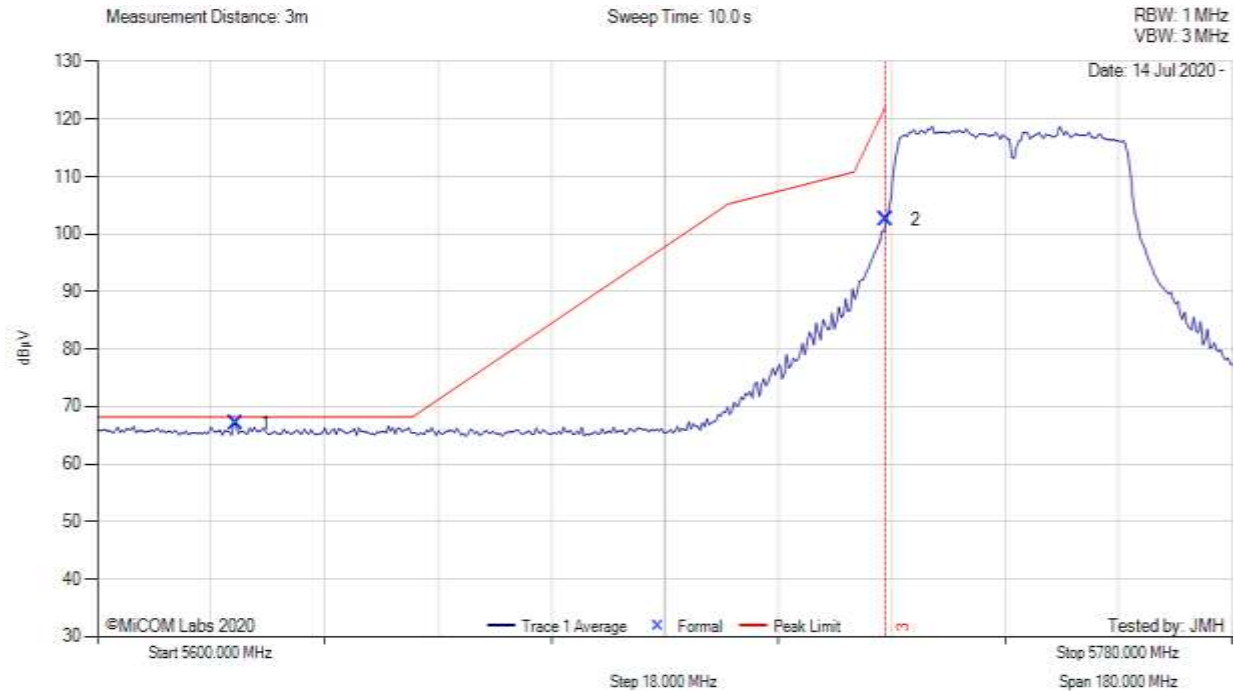
Test Notes: EUT powered by POE.

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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5745.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 6.0, Duty Cycle (%): 87



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5621.93	29.30	3.12	34.64	67.06	Max Peak	Vertical	160	2	68.2	-1.2	Pass
2	5725.00	64.64	3.19	34.72	102.55	Max Peak	Vertical	160	2	122.2	-19.7	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

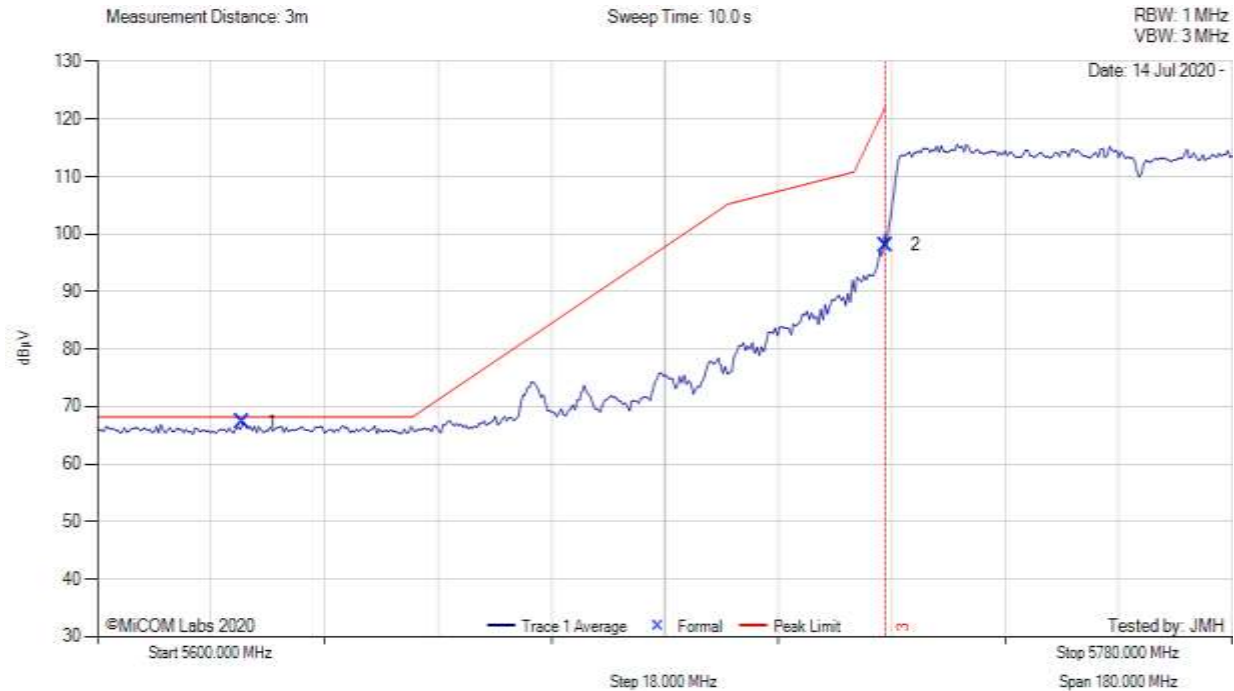
Test Notes: EUT powered by POE.

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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5765.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 6.0, Duty Cycle (%): 73



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5623.02	29.50	3.12	34.64	67.26	Max Peak	Vertical	160	2	68.2	-1.0	Pass
2	5725.00	60.20	3.19	34.72	98.11	Max Peak	Vertical	160	2	122.2	-24.1	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

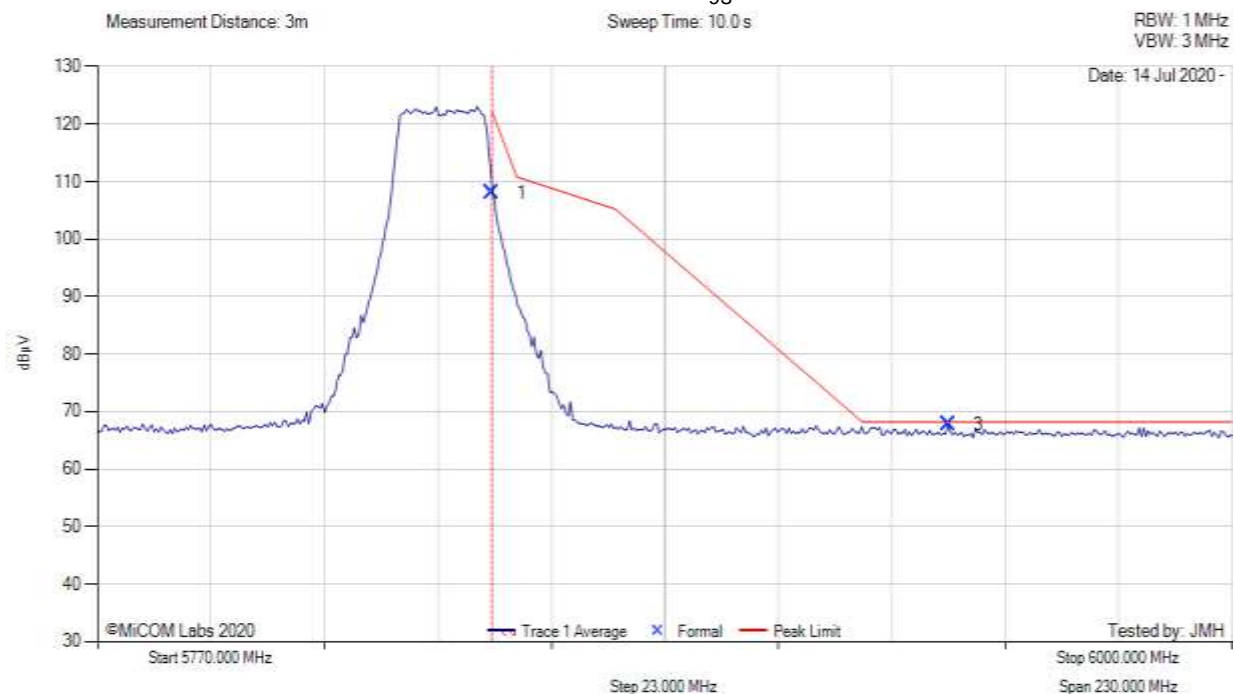
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 8.0, Duty Cycle (%): 93



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	69.77	3.24	34.96	107.97	Max Peak	Vertical	160	2	122.2	-14.3	Pass
3	5942.51	29.55	3.16	35.12	67.83	Max Peak	Vertical	160	2	68.2	-0.4	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

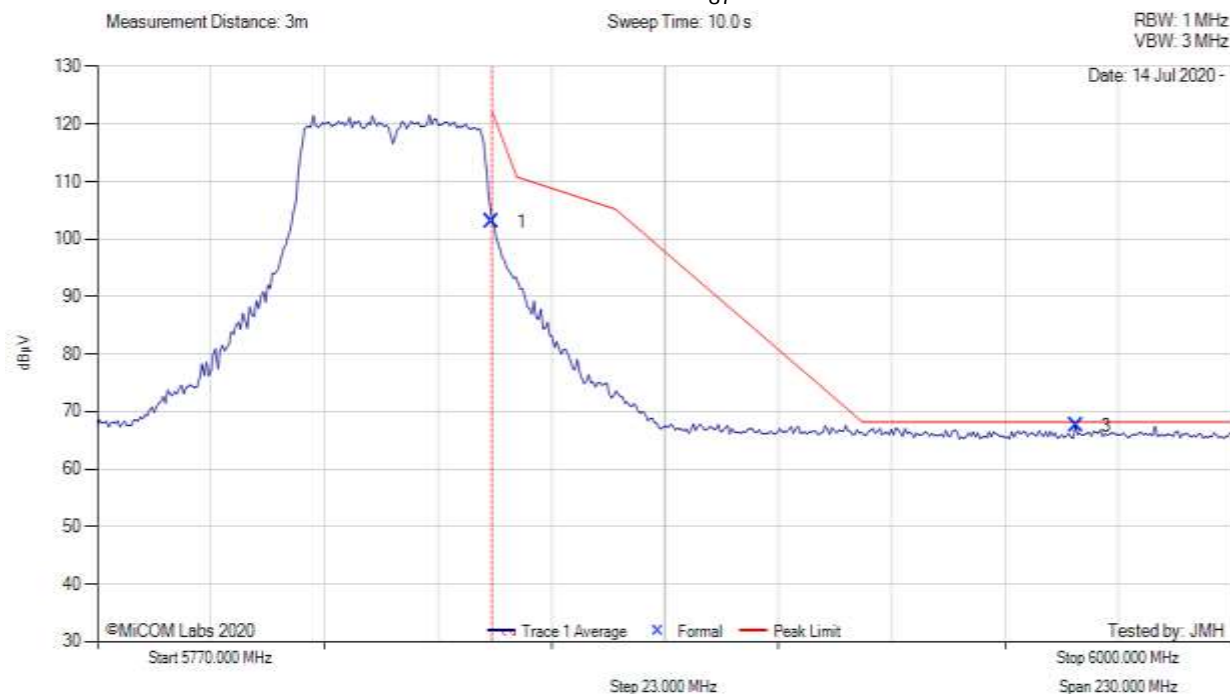
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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5830.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 8.0, Duty Cycle (%):

87



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	64.71	3.24	34.96	102.91	Max Peak	Vertical	160	2	122.2	-19.3	Pass
3	5968.32	29.22	3.17	35.16	67.55	Max Peak	Vertical	160	2	68.2	-0.7	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

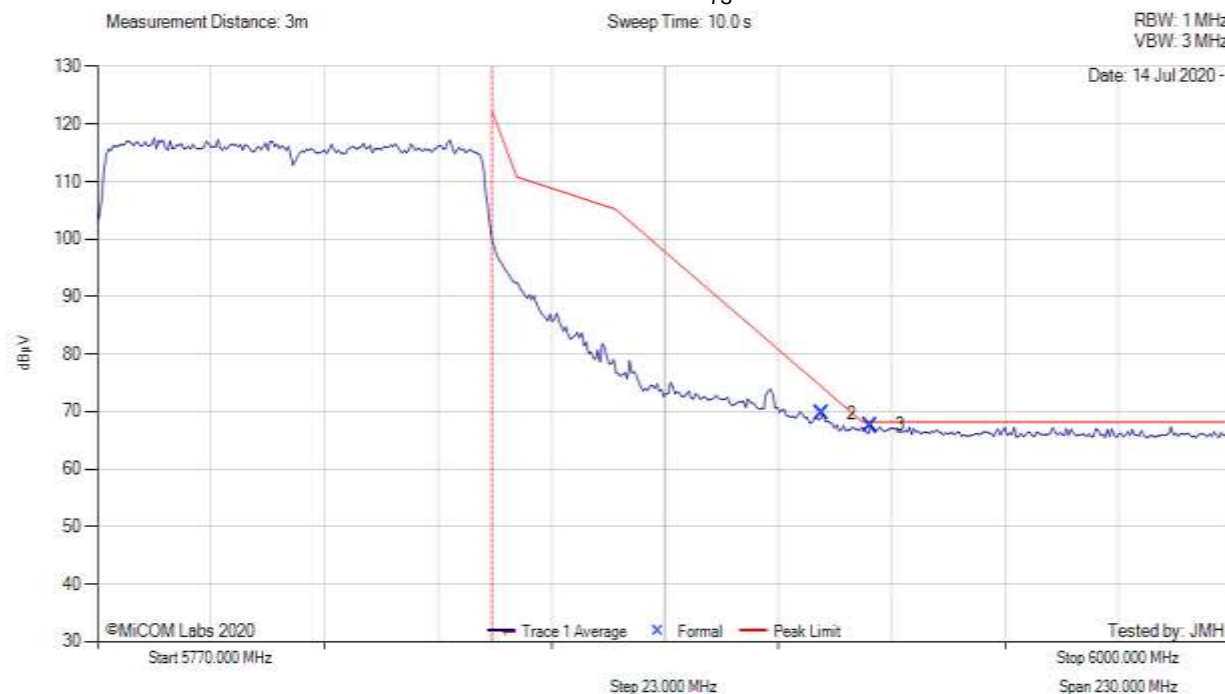
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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5810.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 7.0, Duty Cycle (%):

73



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5916.83	31.43	3.16	35.11	69.70	Max Peak	Vertical	160	2	74.6	-4.9	Pass
3	5926.71	29.37	3.18	35.11	67.66	Max Peak	Vertical	160	2	68.2	-0.6	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

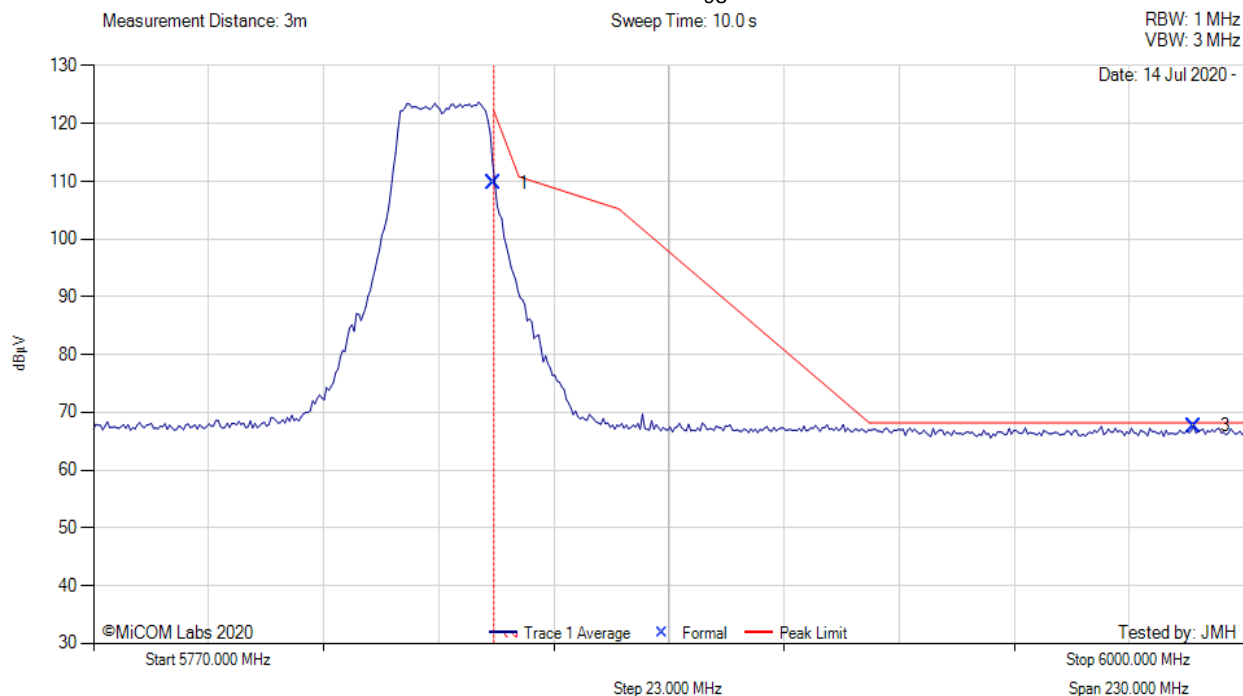
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Point to Point Operation



5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 9.5, Duty Cycle (%): 93



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	71.47	3.24	34.96	109.67	Max Peak	Vertical	160	2	122.2	-12.6	Pass
3	5989.98	29.15	3.25	35.21	67.61	Max Peak	Vertical	160	2	68.2	-0.6	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5830.00 MHz, Antenna: RADWIN RW-9613-4960, Power Setting: 9.5, Duty Cycle (%): 87

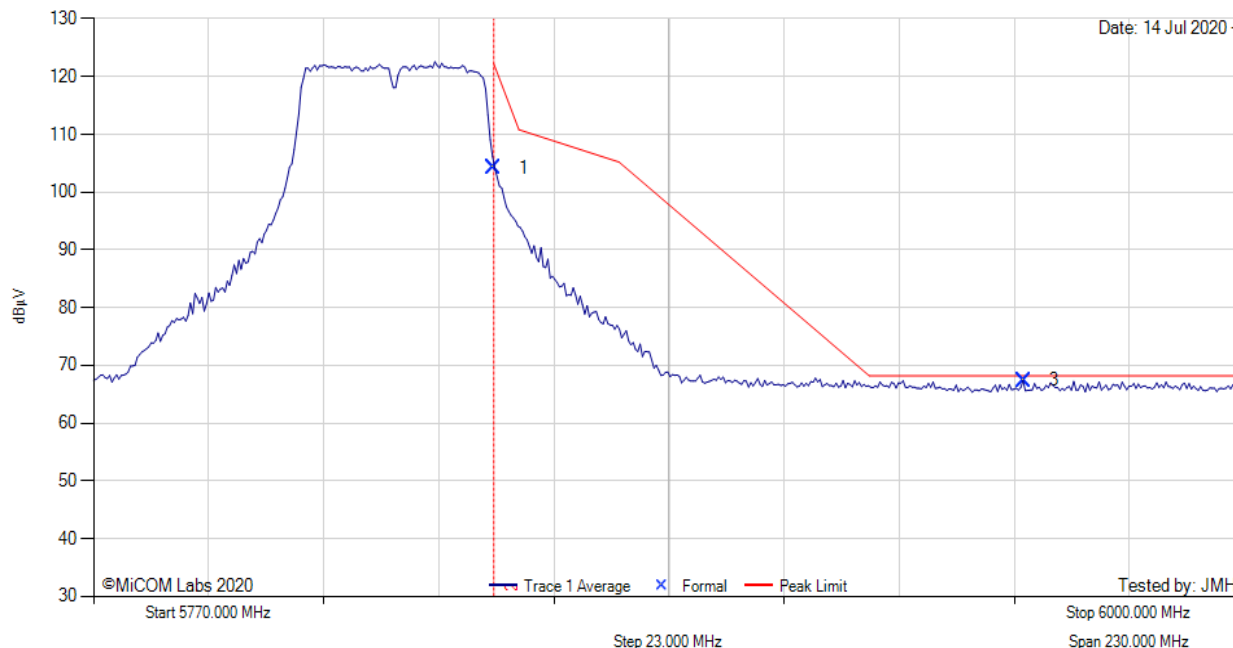
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 14 Jul 2020 -



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5850.00	65.98	3.24	34.96	104.18	Max Peak	Vertical	160	2	122.2	-18.1	Pass
3	5955.87	29.04	3.21	35.13	67.38	Max Peak	Vertical	160	2	68.2	-0.9	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

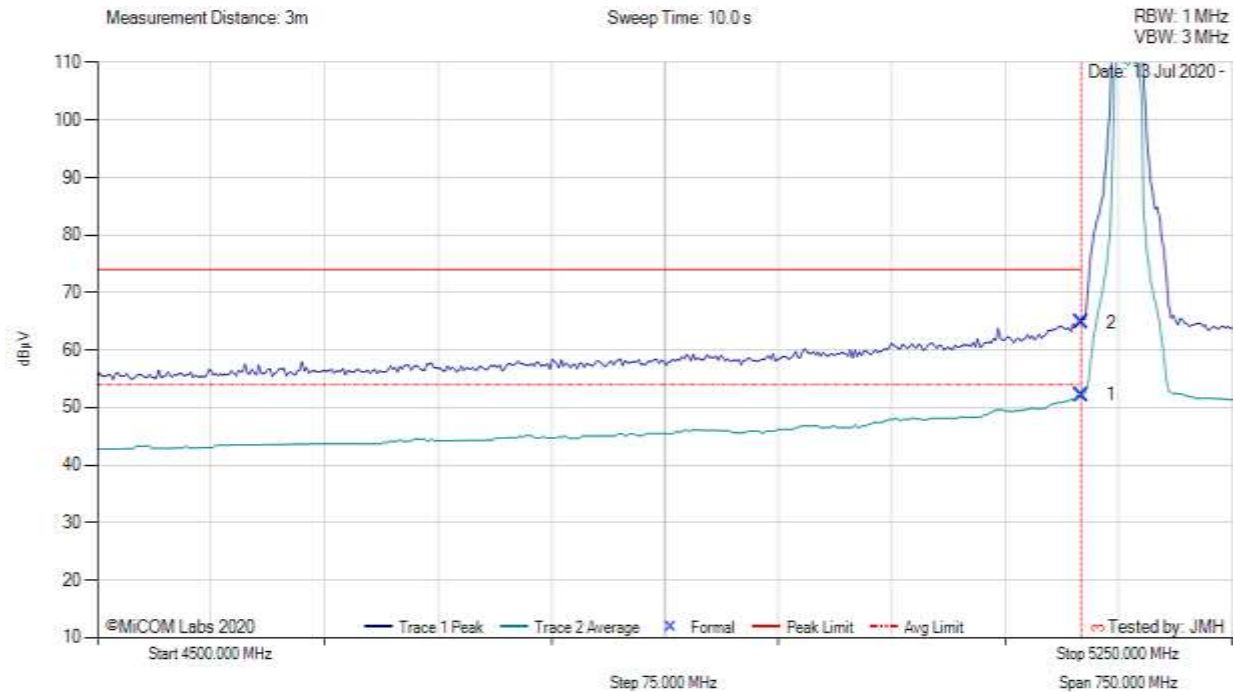
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A.1.2.9. RADWIN RW-9622-5001



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 4, Duty Cycle (%): 93



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	15.07	2.93	34.21	52.21	Max Avg	Vertical	162	6	54.0	-1.8	Pass
2	5150.00	27.69	2.93	34.21	64.83	Max Peak	Vertical	162	6	74.0	-9.2	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit. DCCF of 0.3 dB added to average measurement.

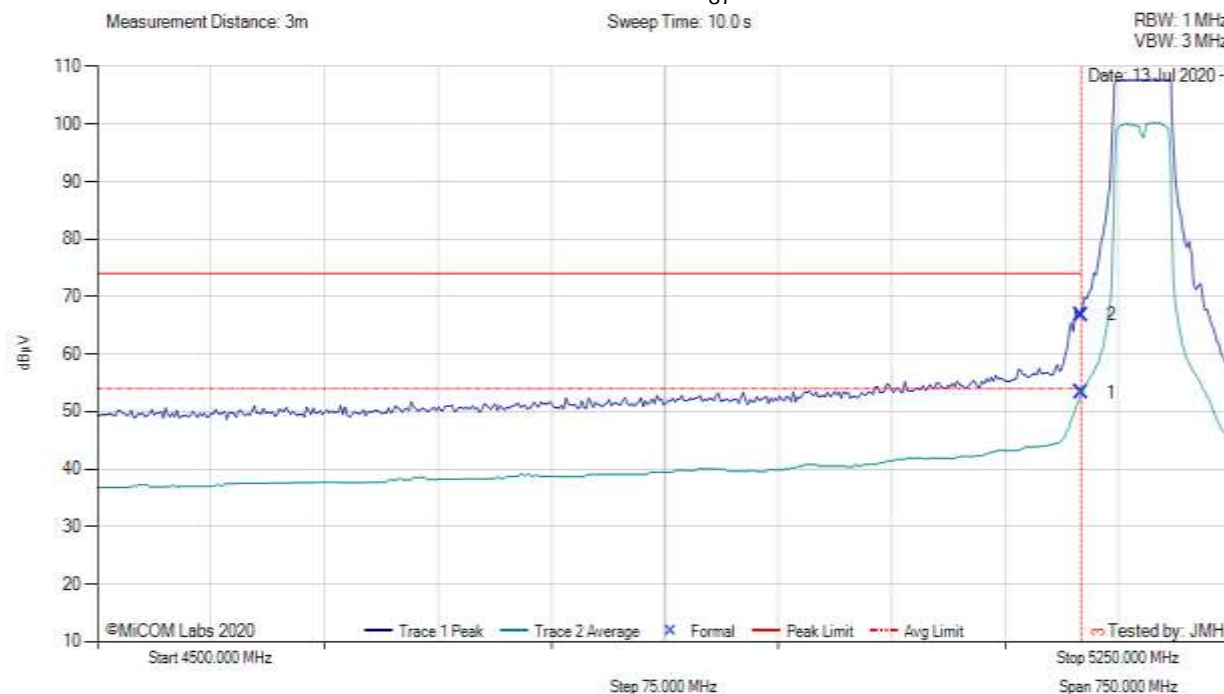
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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5190.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 2.5, Duty Cycle (%):

87



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	16.09	2.93	34.21	53.23	Max Avg	Vertical	162	6	54.0	-0.8	Pass
2	5150.00	29.63	2.93	34.21	66.77	Max Peak	Vertical	162	6	74.0	-7.2	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit. DCCF of 0.6 dB added to average measurement

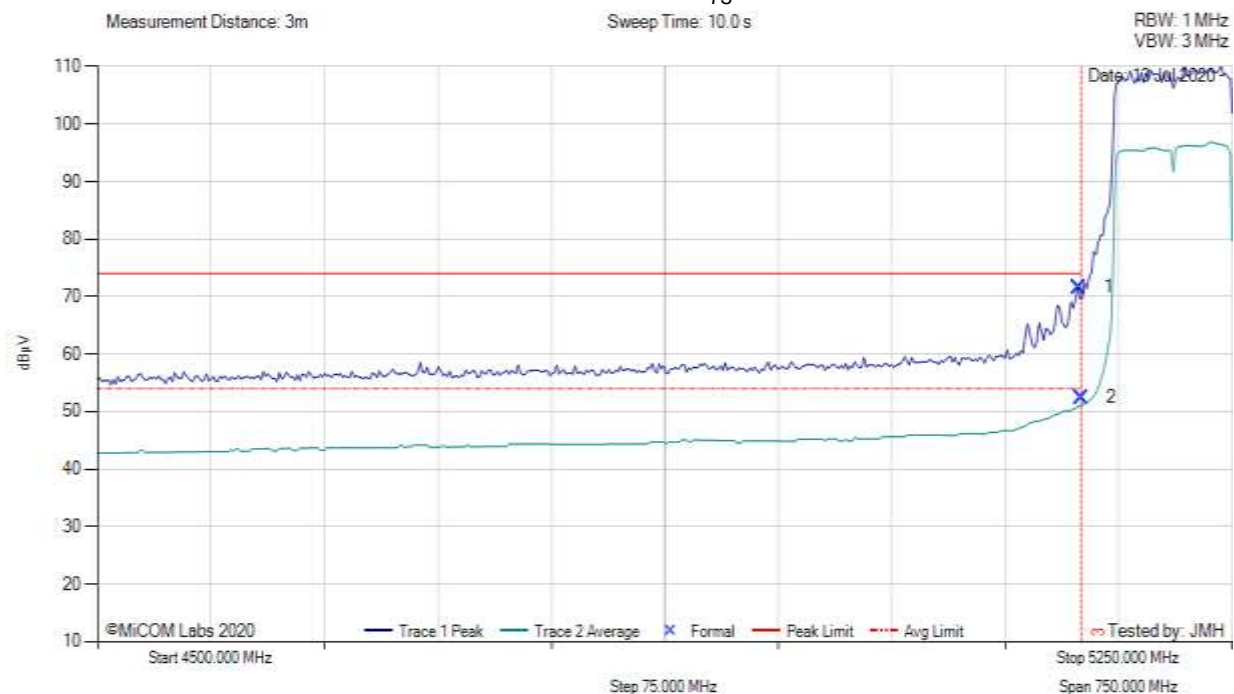
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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: -5.0, Duty Cycle (%):

73



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5148.50	34.50	2.91	34.21	71.62	Max Peak	Vertical	162	6	74.0	-2.4	Pass
2	5150.00	15.33	2.93	34.21	52.47	Max Avg	Vertical	162	6	54.0	-1.5	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit. DCCF of 1.4 dB added to average measurement

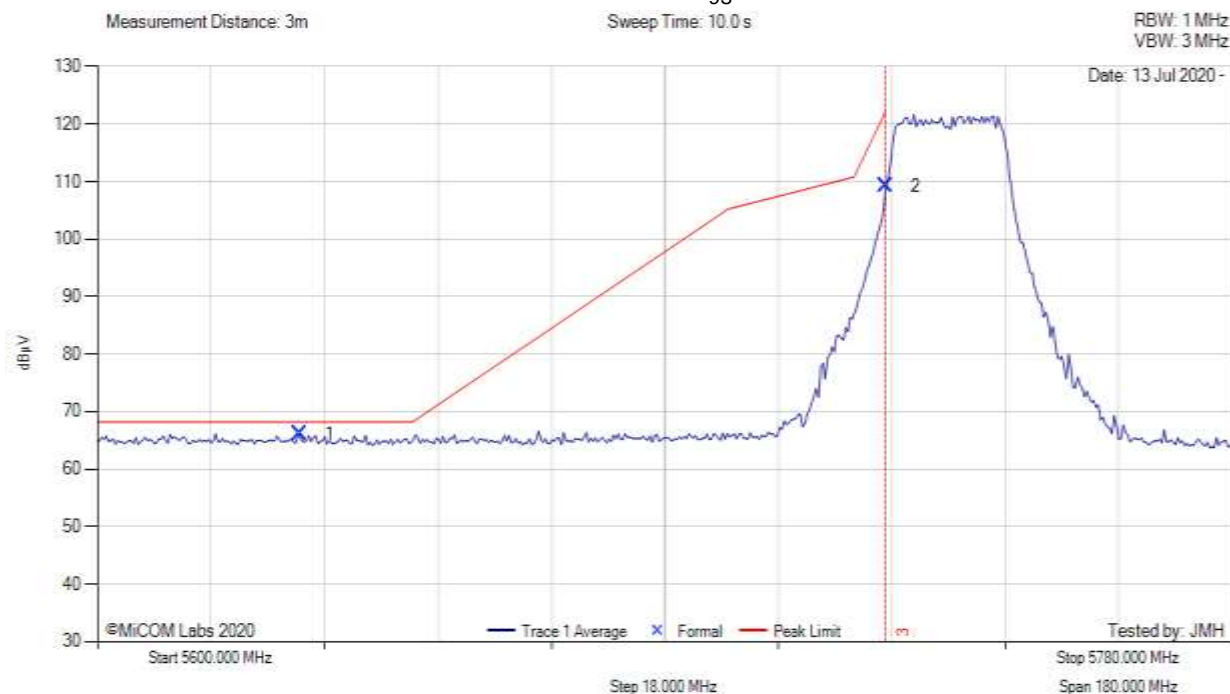
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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 1.5, Duty Cycle (%):

93



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5632.10	28.40	3.12	34.64	66.16	Max Peak	Vertical	161	5	68.2	-2.1	Pass
2	5725.00	71.29	3.19	34.72	109.20	Max Peak	Vertical	161	5	122.2	-13.0	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

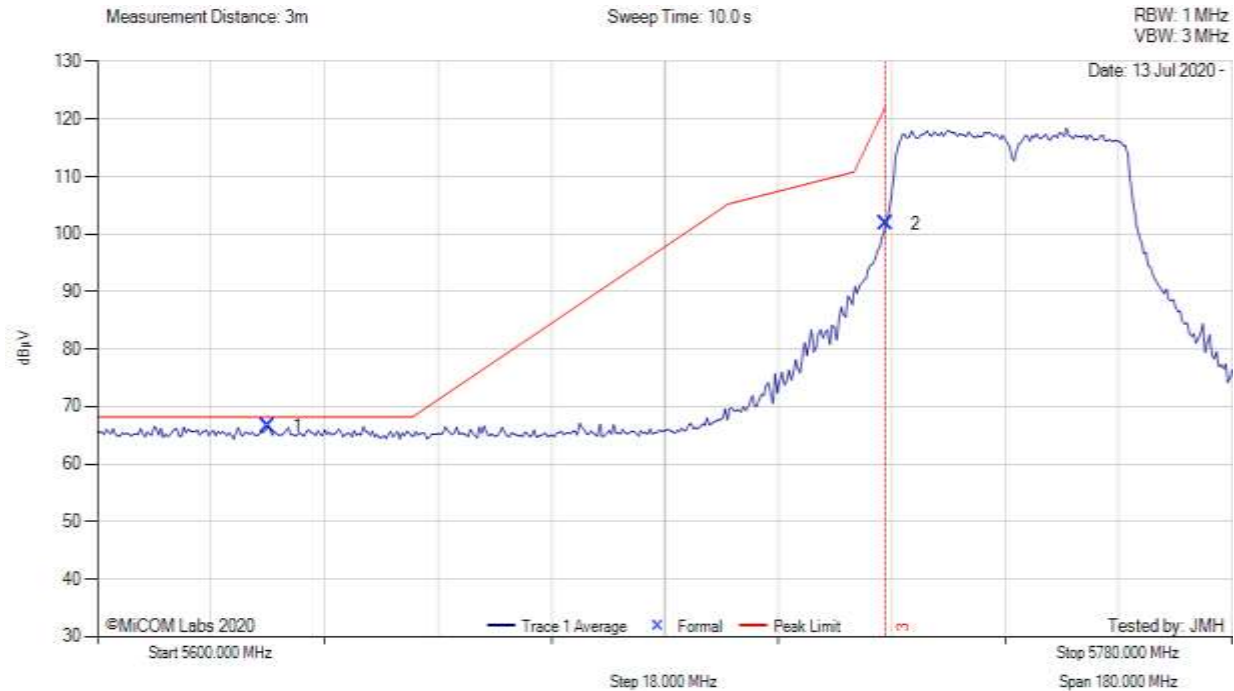
Test Notes: EUT Powered by POE.

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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5745.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 0.5, Duty Cycle (%): 87



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5626.98	28.80	3.12	34.64	66.56	Max Peak	Vertical	161	5	68.2	-1.7	Pass
2	5725.00	63.93	3.19	34.72	101.84	Max Peak	Vertical	161	5	122.2	-20.4	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

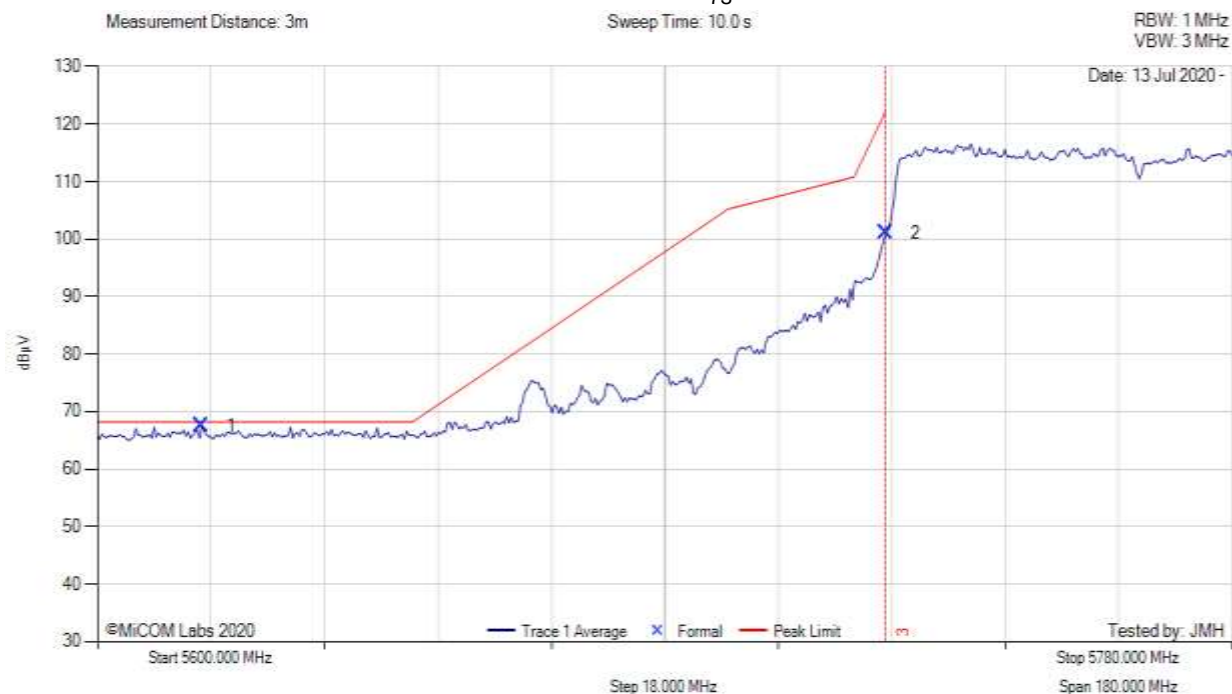
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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5765.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 0.5, Duty Cycle (%):

73



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5616.52	29.77	3.11	34.65	67.53	Max Avg	Vertical	161	5	68.2	-0.7	Pass
2	5725.00	63.15	3.19	34.72	101.06	Max Peak	Vertical	161	5	122.2	-21.1	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

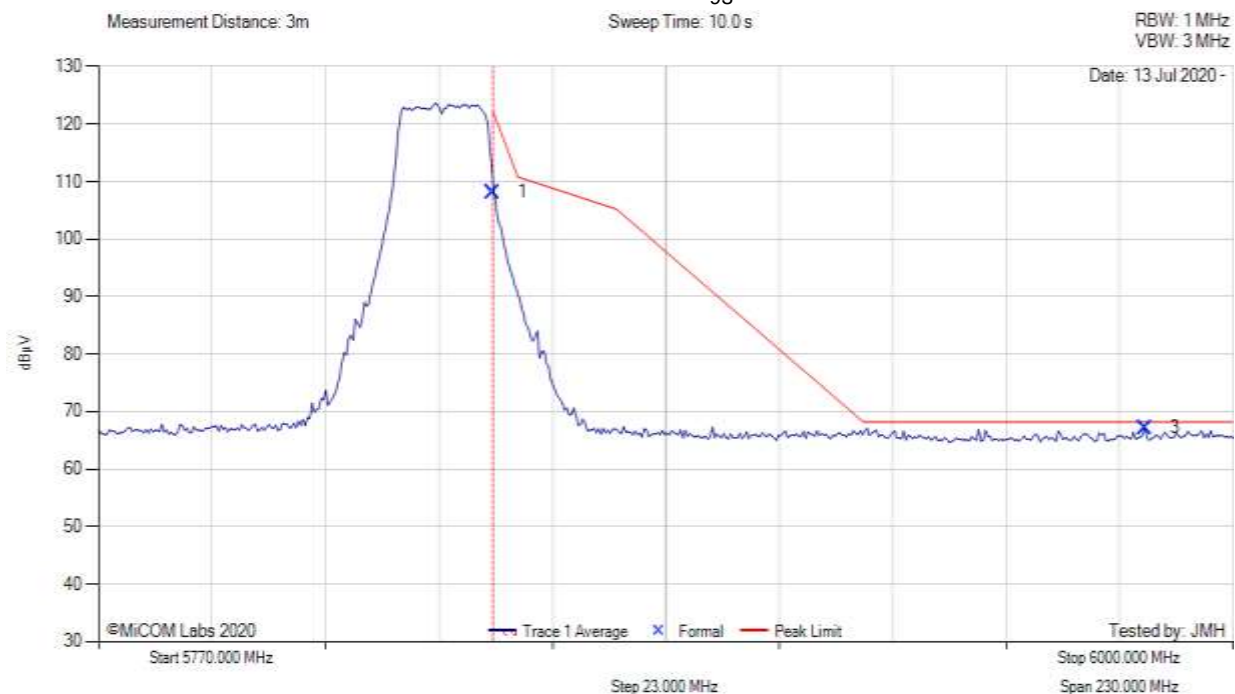
Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 4.5, Duty Cycle (%): 93



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	69.97	3.24	34.96	108.17	Max Peak	Vertical	161	5	122.2	-14.1	Pass
3	5982.14	28.80	3.21	35.19	67.20	Max Peak	Vertical	161	5	68.2	-1.0	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

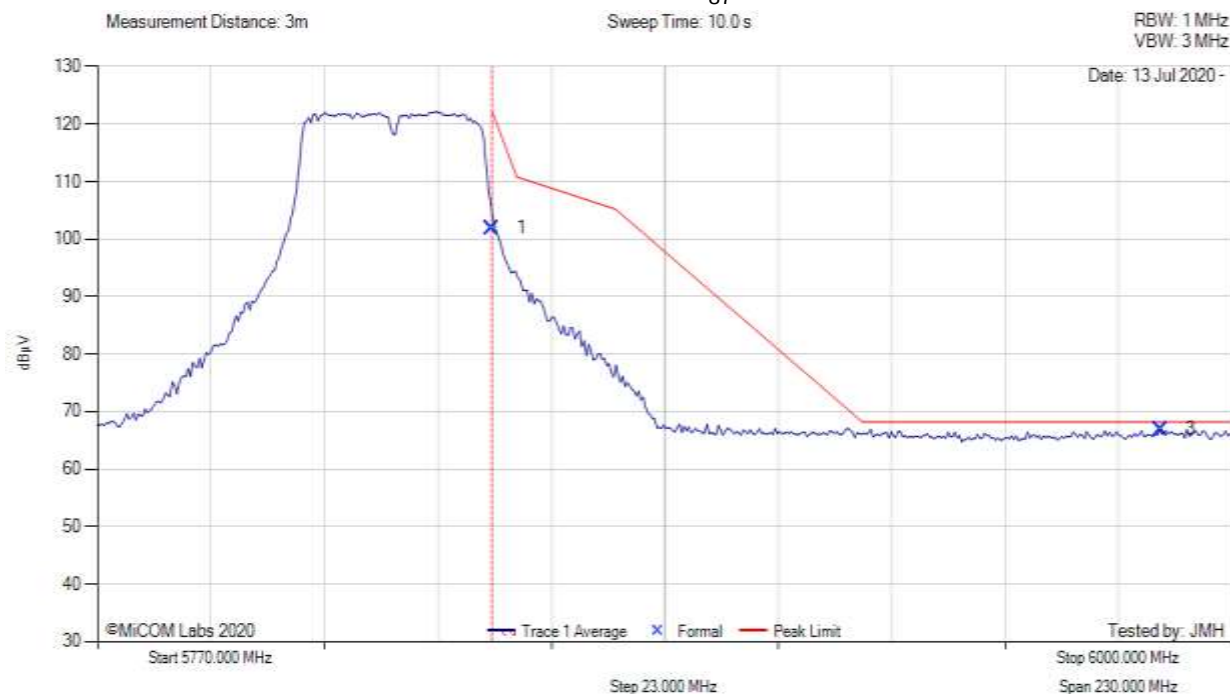
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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5830.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 5.5, Duty Cycle (%):

87



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	63.68	3.24	34.96	101.88	Max Peak	Vertical	161	5	122.2	-20.4	Pass
3	5985.37	28.48	3.23	35.20	66.91	Max Peak	Vertical	161	5	68.2	-1.3	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

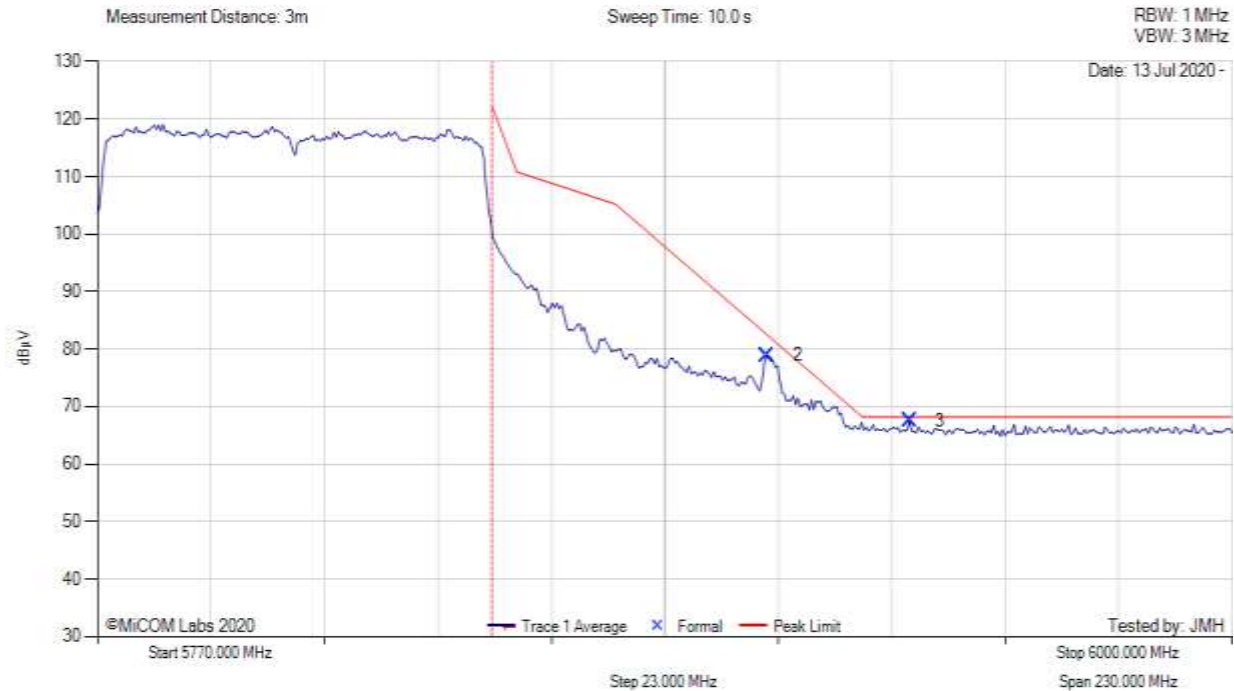
Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5810.00 MHz, Antenna: RADWIN RW-9622-5001, Power Setting: 4.5, Duty Cycle (%): 73



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5905.77	40.56	3.24	35.10	78.90	Max Peak	Vertical	0	0	82.3	-3.4	Pass
3	5934.67	29.15	3.22	35.11	67.48	Max Avg	Vertical	0	0	68.2	-0.8	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT Powered by POE. Power reduced to meet band edge limit.

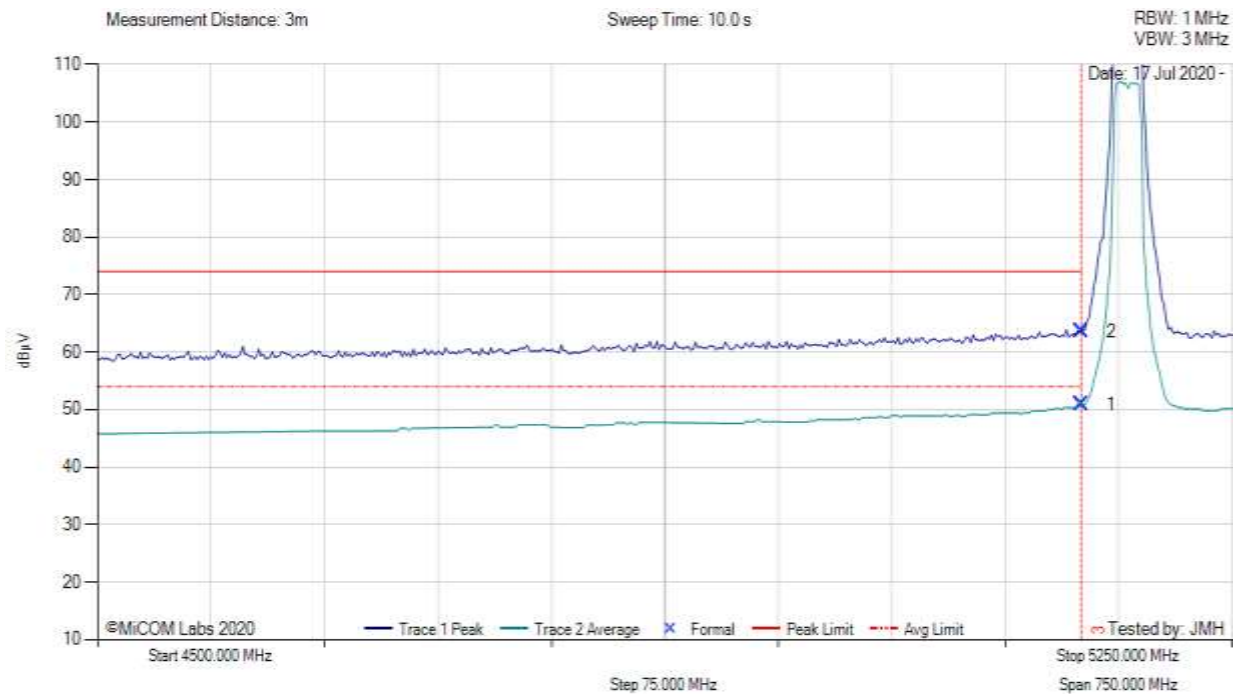
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A.1.2.10. RADWIN RW-9732-4958



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5180.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1, Duty Cycle (%): 93



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	13.81	2.93	34.21	50.95	Max Avg	Vertical	169	358	54.0	-3.1	Pass
2	5150.00	26.41	2.93	34.21	63.55	Max Peak	Vertical	169	358	74.0	-10.5	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

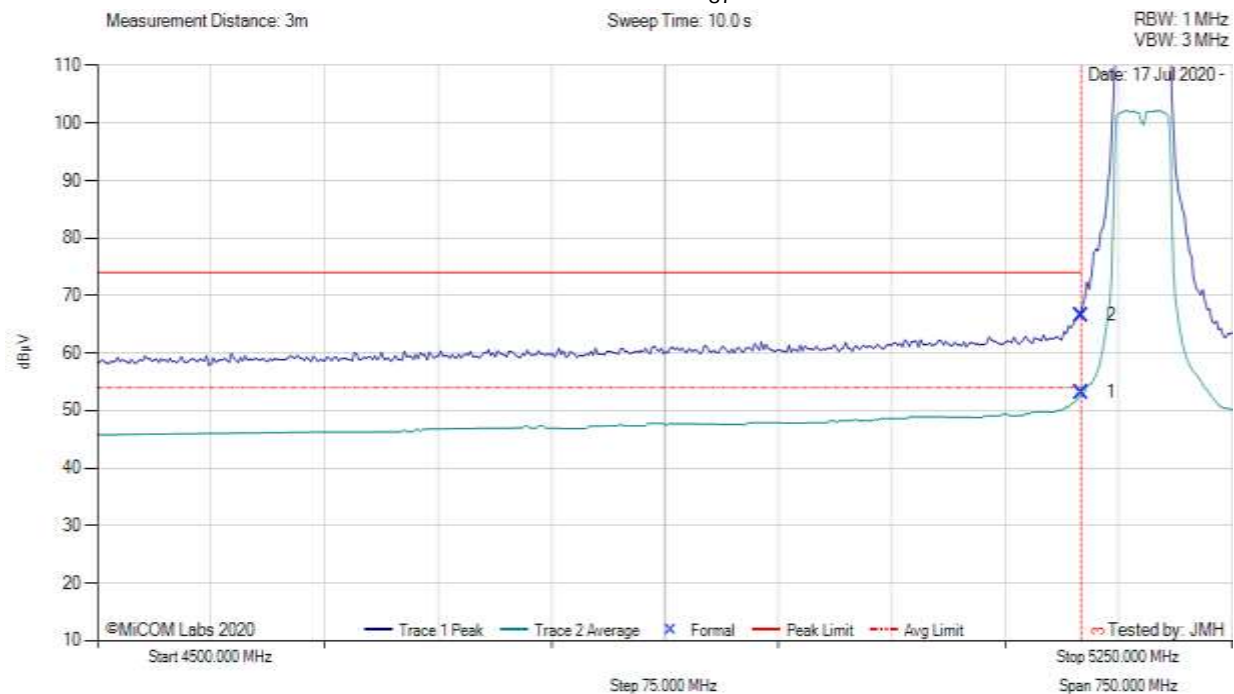
Test Notes: EUT powered by POE. DCCF of 0.32 dB added to average measurement

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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5190.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1.0, Duty Cycle (%): 87



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	15.98	2.93	34.21	53.12	Max Avg	Vertical	169	358	54.0	-0.9	Pass
2	5150.00	29.44	2.93	34.21	66.58	Max Peak	Vertical	169	358	74.0	-7.4	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 0.6 dB added to average measurement.

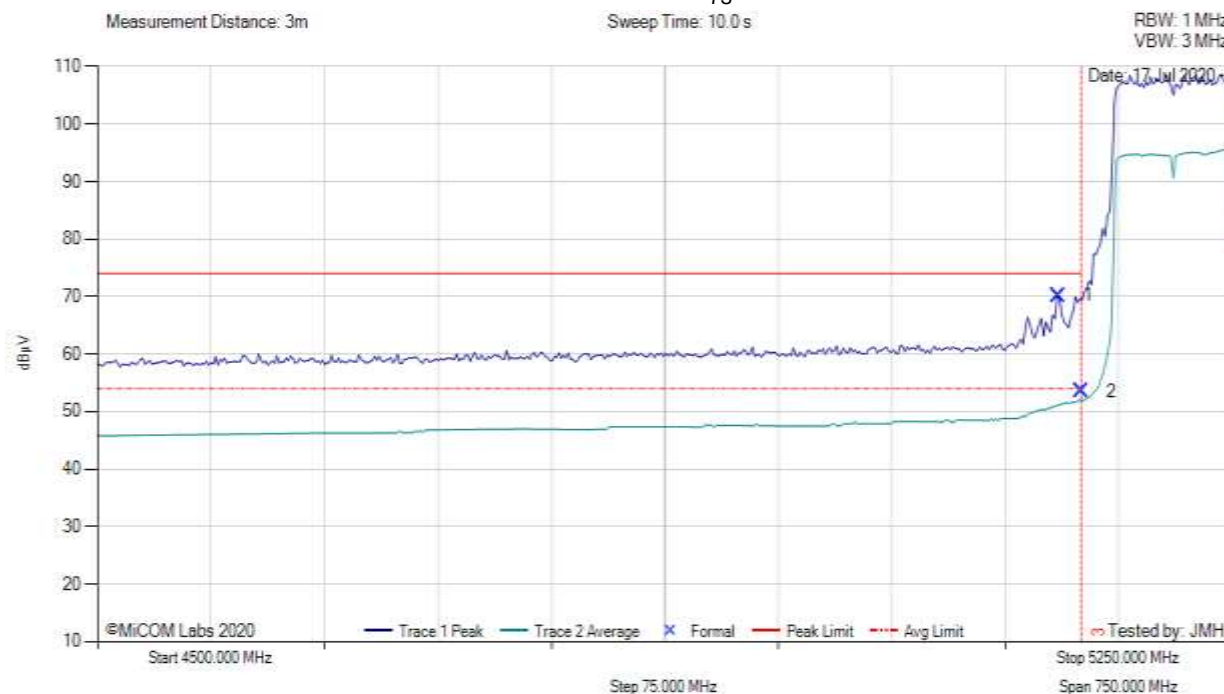
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RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 80MHz, Test Freq: 5210.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -4.0, Duty Cycle (%):

73



4500.00 - 5250.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5134.97	33.01	2.99	34.18	70.18	Max Peak	Vertical	169	358	74.0	-3.8	Pass
2	5150.00	16.34	2.93	34.21	53.48	Max Avg	Vertical	169	358	54.0	-0.5	Pass
3	5150.00	--	--	--	--	Restricted-Band	--	--	--	--	--	--

Test Notes: EUT powered by POE. DCCF of 1.4 dB added to average measurement.

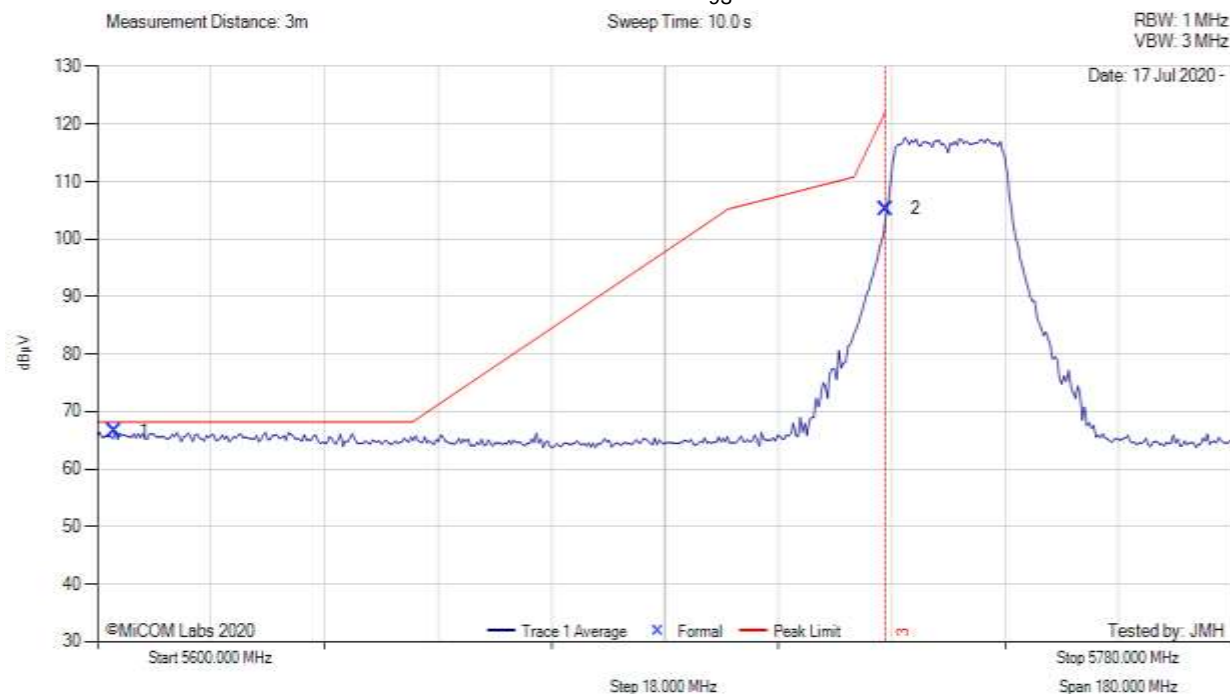
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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1.0, Duty Cycle (%):

93



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5602.72	28.82	3.09	34.65	66.56	Max Peak	Vertical	177	359	68.2	-1.7	Pass
2	5725.00	67.31	3.19	34.72	105.22	Max Peak	Vertical	177	359	122.2	-17.0	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE

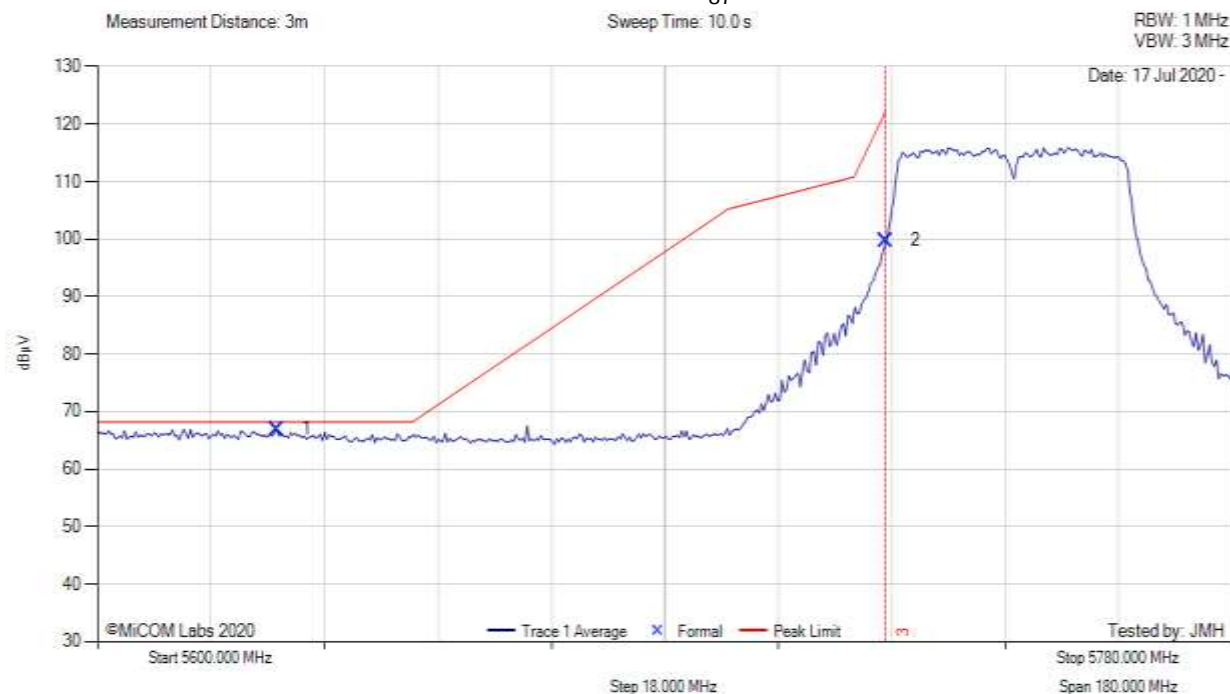
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5725 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5745.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1.0, Duty Cycle (%):

87



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5628.43	29.13	3.12	34.64	66.89	Max Peak	Vertical	177	359	68.2	-1.3	Pass
2	5725.00	61.87	3.19	34.72	99.78	Max Peak	Vertical	177	359	122.2	-22.4	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

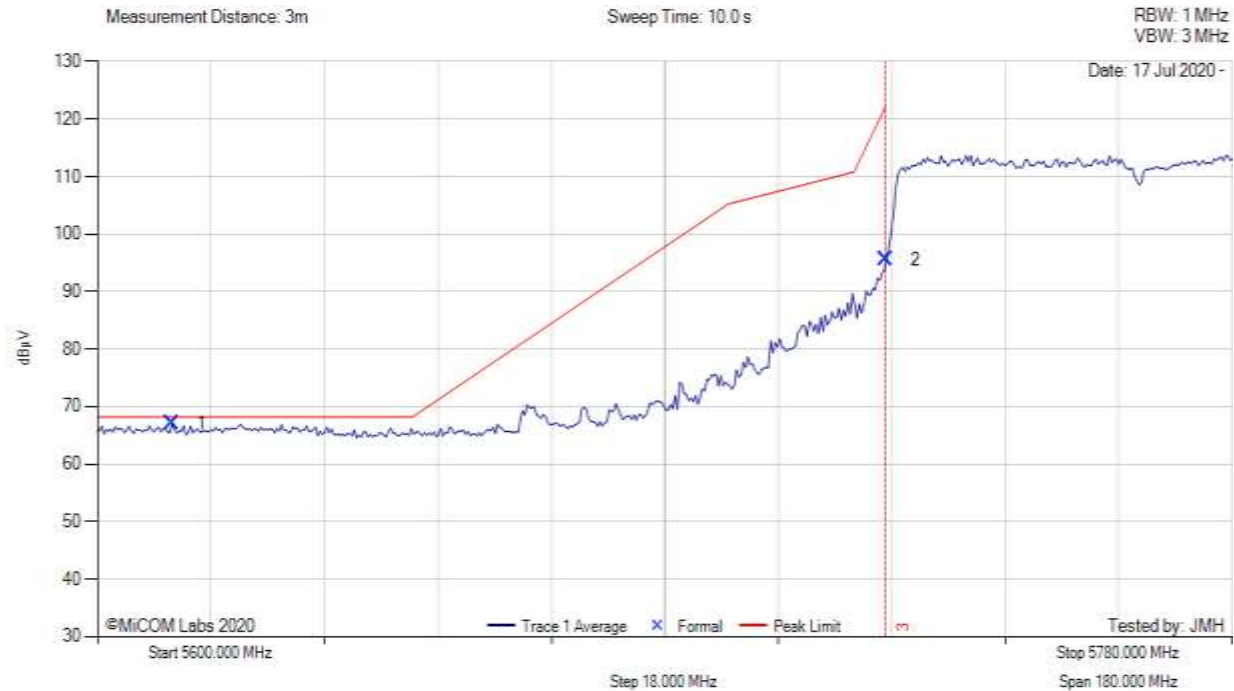
Test Notes: EUT powered by POE.

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5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5765.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1, Duty Cycle (%): 73



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5611.83	29.34	3.10	34.65	67.09	Max Peak	Vertical	177	359	68.2	-1.1	Pass
2	5725.00	57.58	3.19	34.72	95.49	Max Peak	Vertical	177	359	122.2	-26.7	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

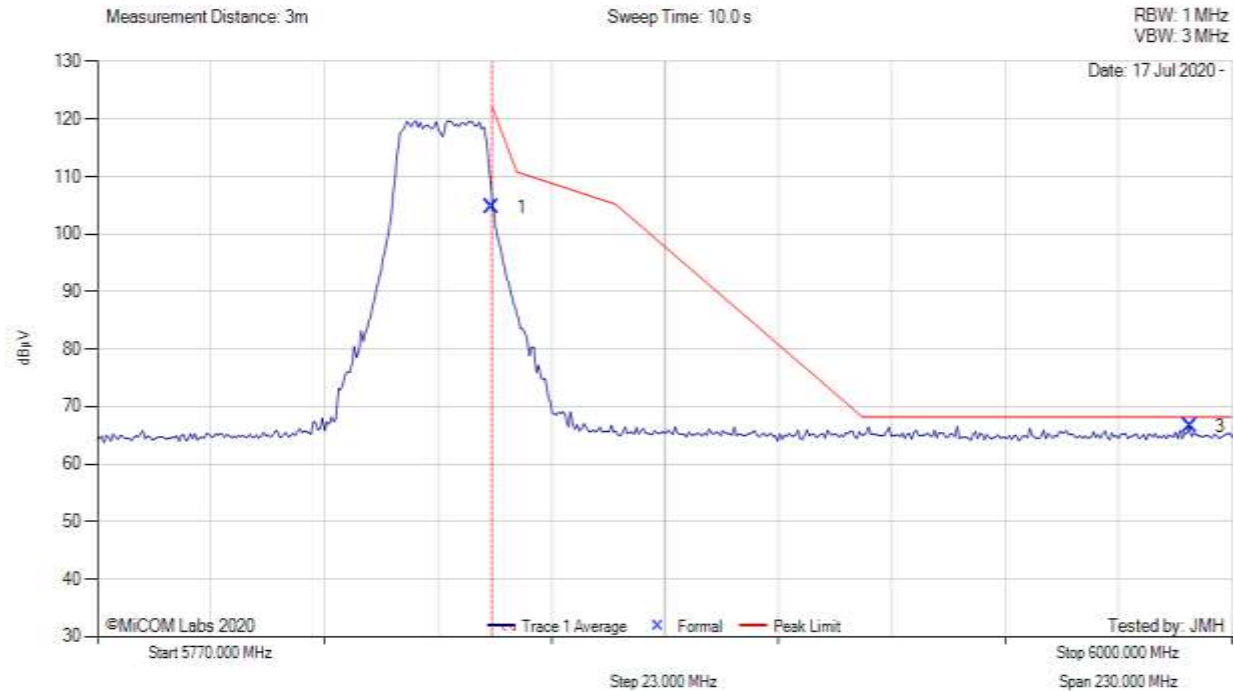
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1.0, Duty Cycle (%): 93



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	66.42	3.24	34.96	104.62	Max Peak	Vertical	177	359	122.2	-17.6	Pass
3	5991.36	28.16	3.25	35.21	66.62	Max Peak	Vertical	177	359	68.2	-1.6	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

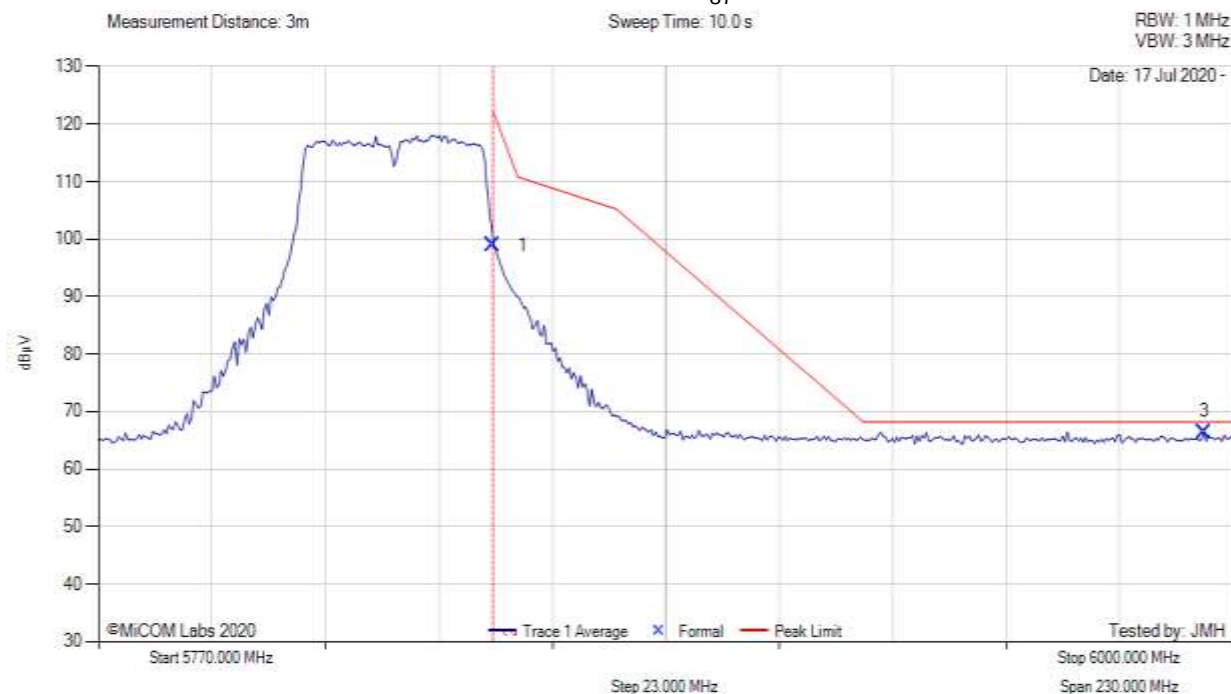
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5850 MHz RADIATED BAND-EDGE EMISSIONS



Variant: 40MHz, Test Freq: 5830.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1.0, Duty Cycle (%):

87



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	60.67	3.24	34.96	98.87	Max Peak	Vertical	177	359	122.2	-23.4	Pass
3	5994.13	28.00	3.26	35.22	66.48	Max Peak	Vertical	177	359	68.2	-1.8	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

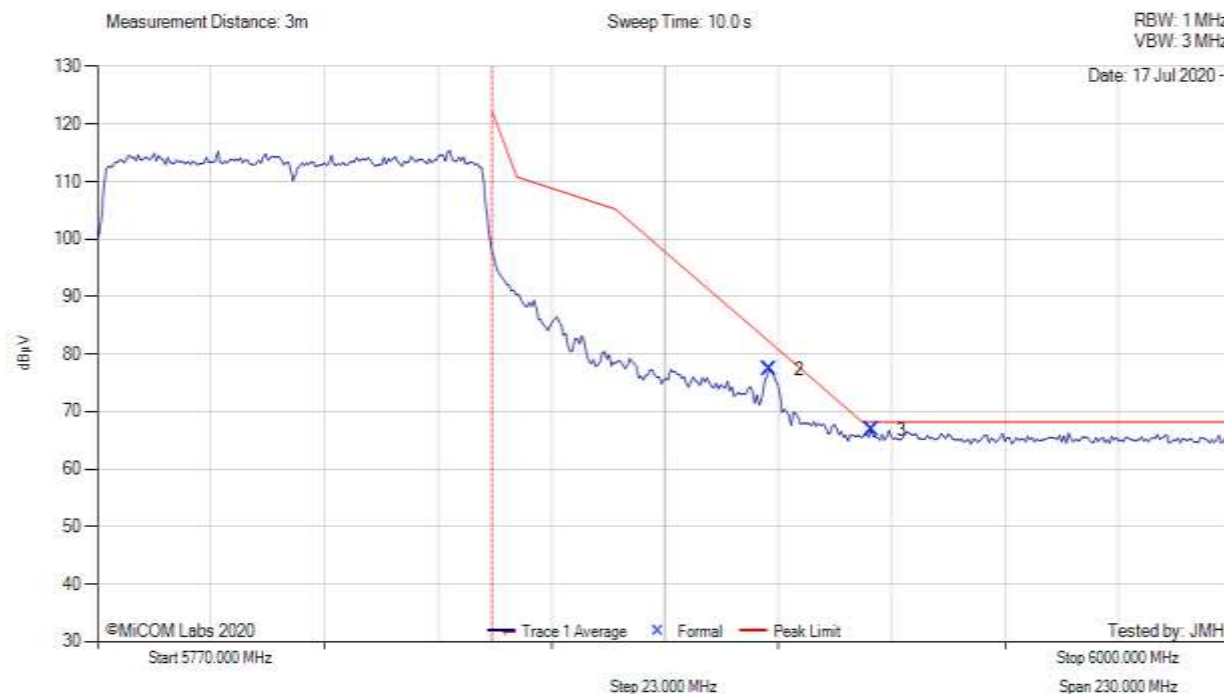
Test Notes: EUT powered by POE.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5810.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: -1, Duty Cycle (%): 73



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5906.23	39.00	3.24	35.10	77.34	Max Peak	Vertical	177	359	82.4	-5.1	Pass
3	5926.83	28.50	3.18	35.11	66.79	Max Peak	Vertical	177	359	68.2	-1.4	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE.

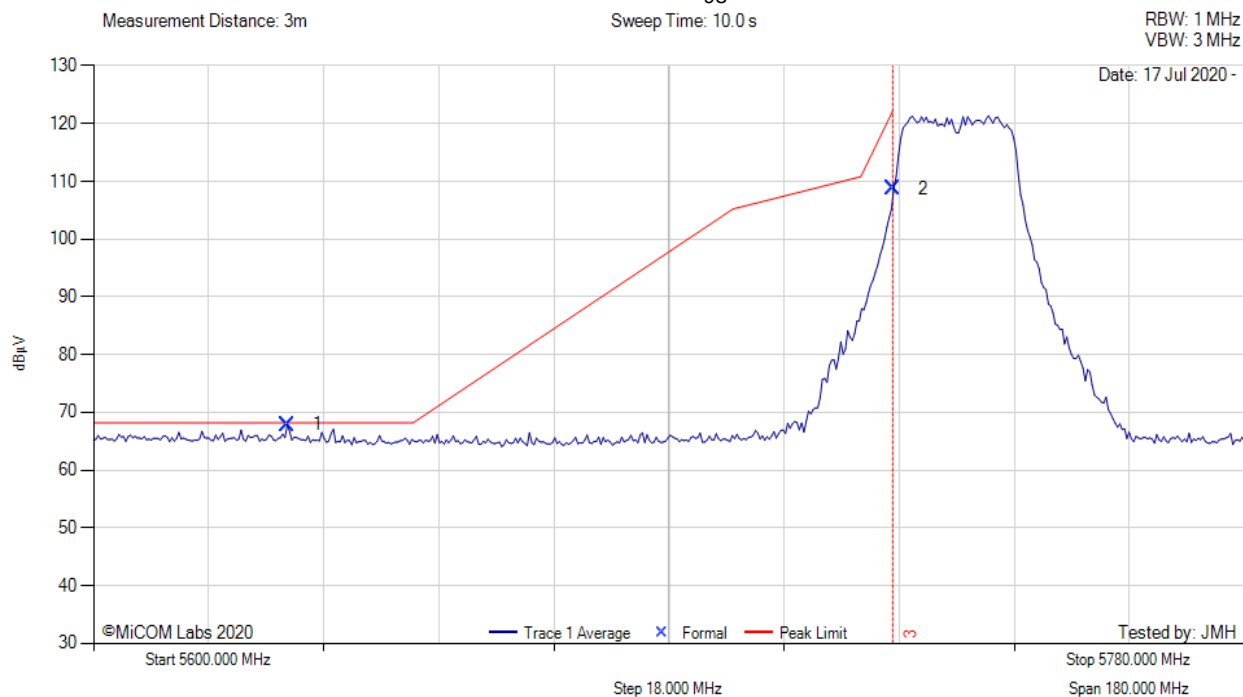
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Point to Point Operation



5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5735.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 2.0, Duty Cycle (%): 93



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5630.23	30.12	3.12	34.64	67.88	Max Peak	Vertical	177	359	68.2	-0.4	Pass
2	5725.00	70.81	3.19	34.72	108.72	Max Peak	Vertical	177	359	122.2	-13.5	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

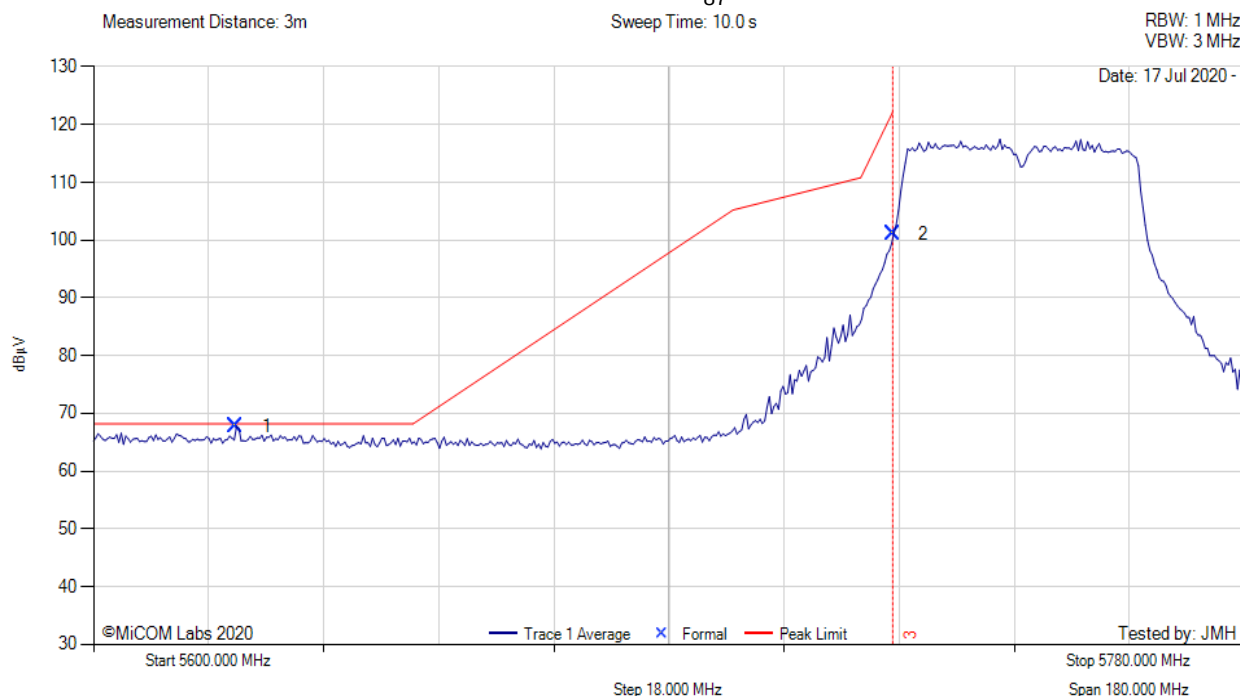
Test Notes: EUT powered by POE. Pt to Pt operation.

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5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 40MHz, Test Freq: 5745.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 0.5, Duty Cycle (%): 87



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5622.29	30.05	3.12	34.64	67.81	Max Peak	Vertical	177	359	68.2	-0.4	Pass
2	5725.00	63.15	3.19	34.72	101.06	Max Peak	Vertical	177	359	122.2	-21.1	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

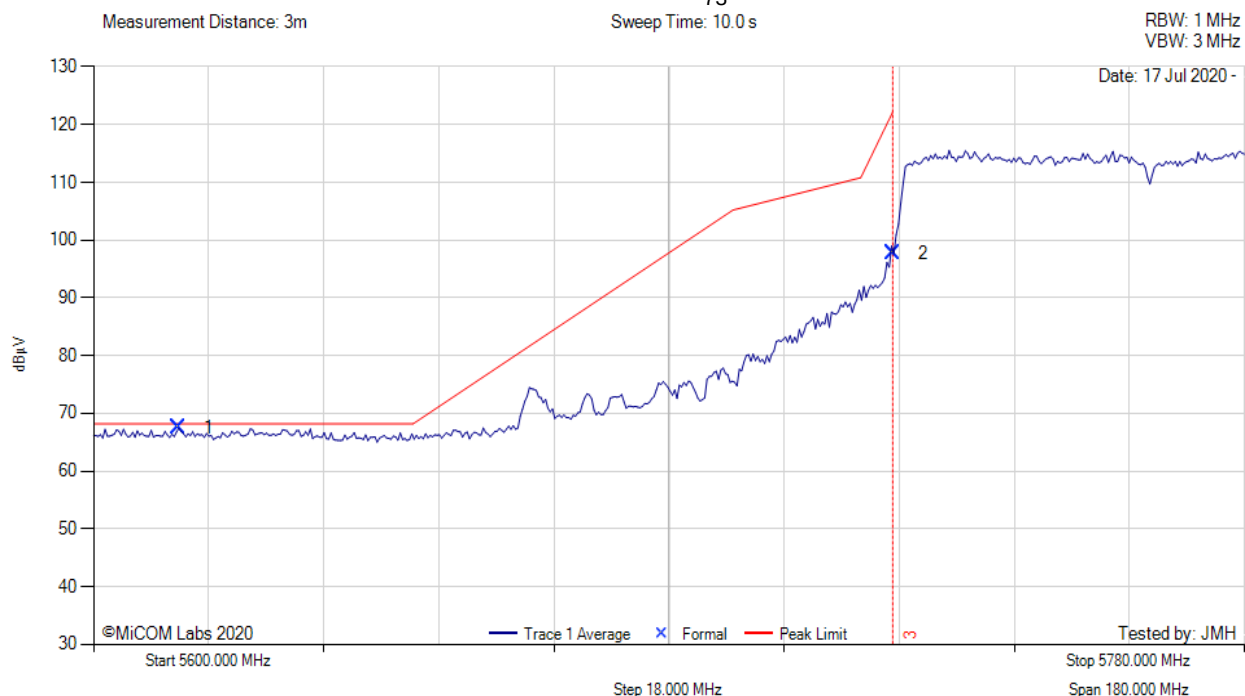
Test Notes: EUT powered by POE. Pt to Pt operation

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5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5765.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 0.5, Duty Cycle (%): 73



5600.00 - 5780.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5613.28	29.70	3.11	34.65	67.46	Max Avg	Vertical	177	359	68.2	-0.8	Pass
2	5725.00	59.73	3.19	34.72	97.64	Max Avg	Vertical	177	359	122.2	-24.6	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

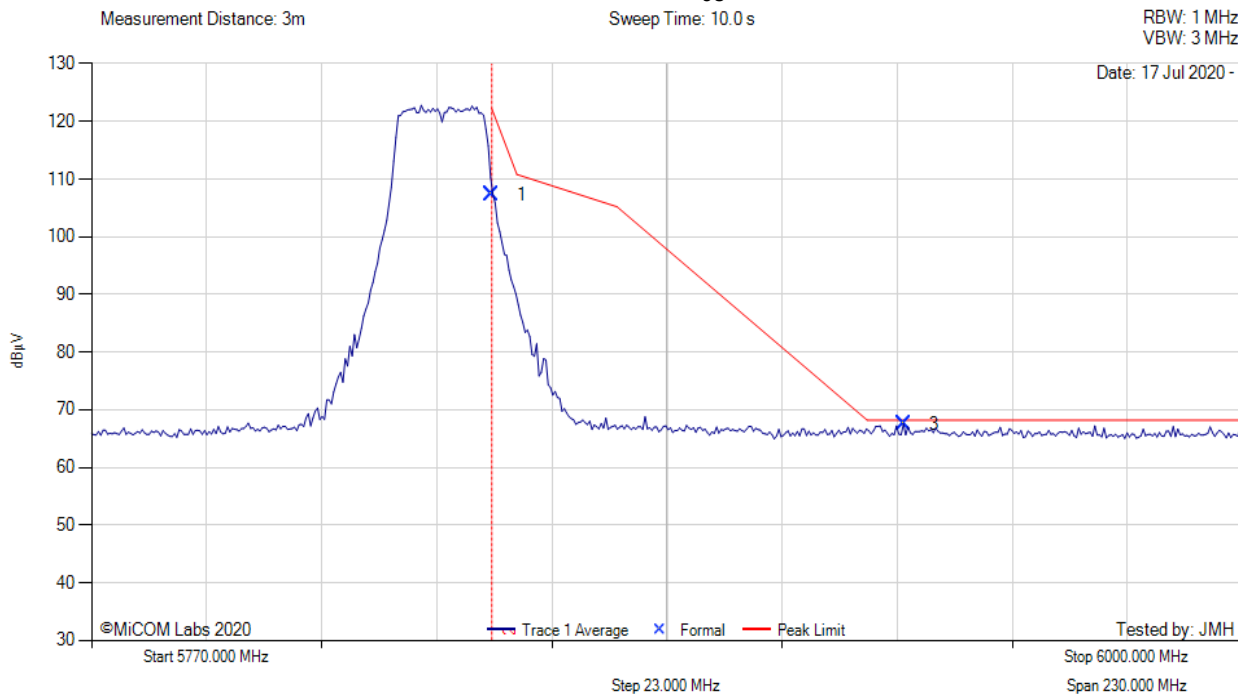
Test Notes: EUT powered by POE. Pt to Pt operation.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 20MHz, Test Freq: 5840.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 2.0, Duty Cycle (%): 93



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	69.16	3.24	34.96	107.36	Max Peak	Vertical	177	359	122.2	-14.9	Pass
3	5932.36	29.23	3.21	35.11	67.55	Max Peak	Vertical	177	359	68.2	-0.7	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

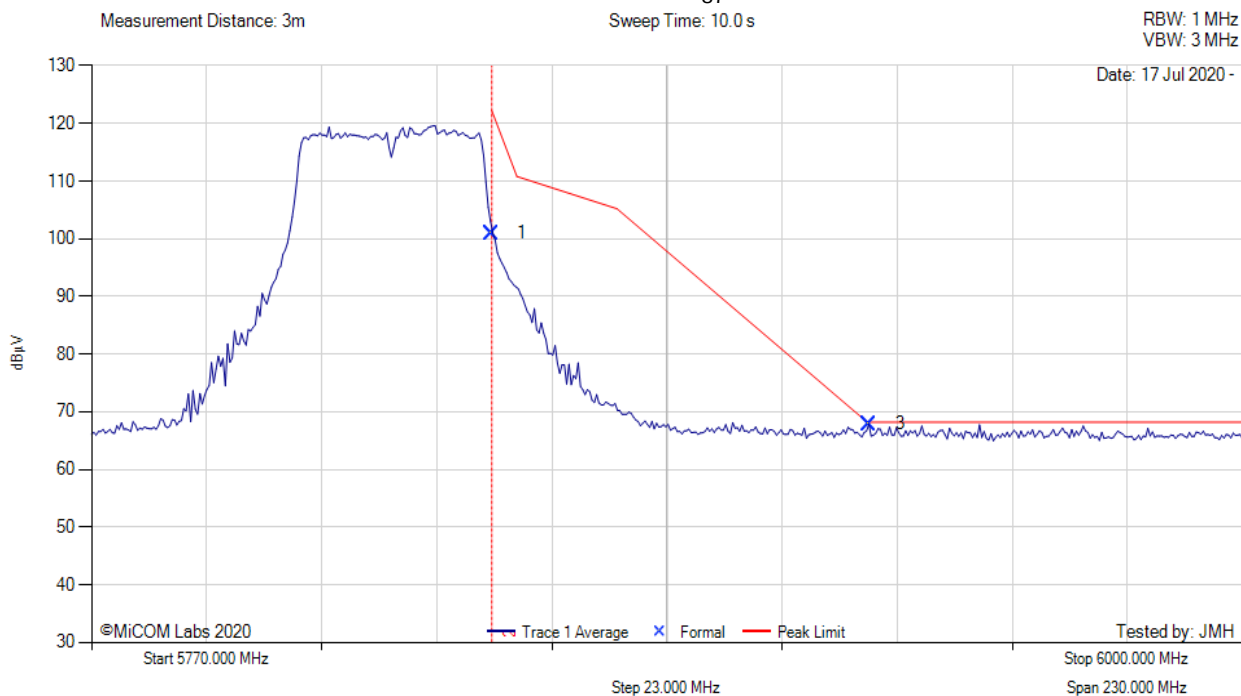
Test Notes: EUT powered by POE. Pt to Pt operation.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 40MHz, Test Freq: 5830.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 2.0, Duty Cycle (%): 87



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5850.00	62.79	3.24	34.96	100.99	Max Peak	Vertical	177	359	122.2	-21.2	Pass
3	5925.45	29.58	3.17	35.11	67.86	Max Peak	Vertical	177	359	68.2	-0.4	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

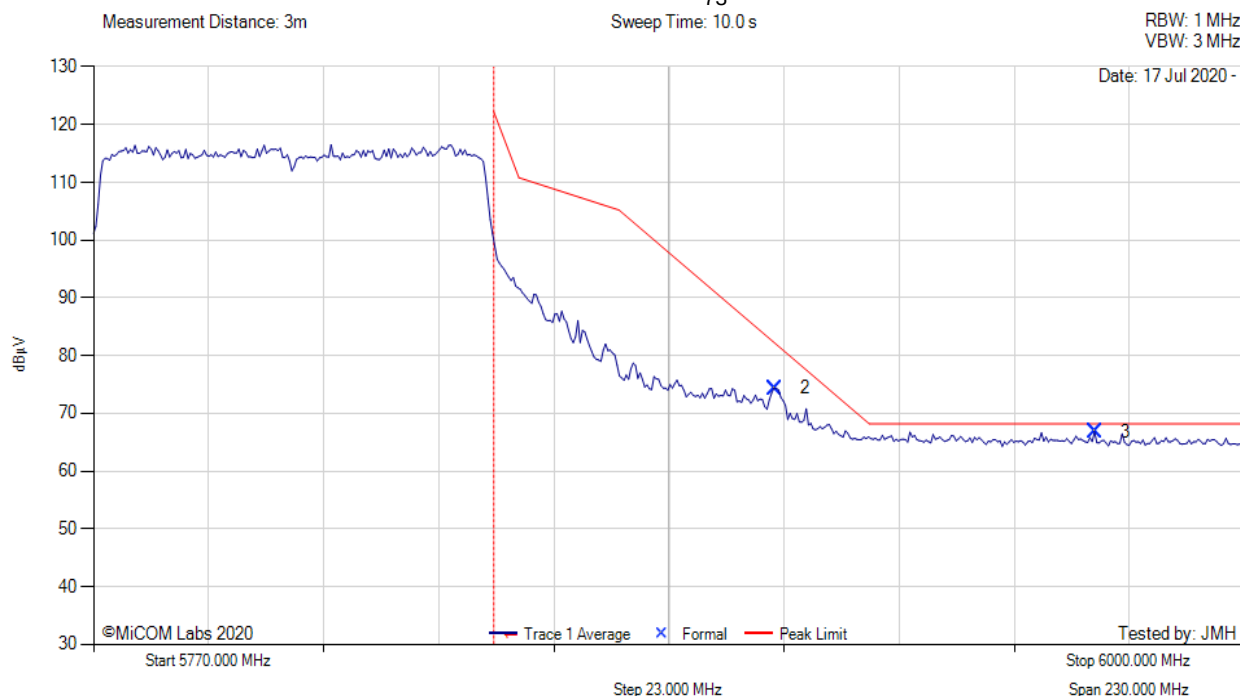
Test Notes: EUT powered by POE. Pt to Pt operation.

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5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 80MHz, Test Freq: 5810.00 MHz, Antenna: RADWIN RW-9732-4958, Power Setting: 0.5, Duty Cycle (%): 73



5770.00 - 6000.00 MHz												
Num	Frequency MHz	Raw dBμV	Cable Loss dB	AF dB/m	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5906.23	36.01	3.24	35.10	74.35	Max Peak	Vertical	177	359	82.4	-8.1	Pass
3	5970.16	28.48	3.17	35.17	66.82	Max Peak	Vertical	177	359	68.2	-1.4	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT powered by POE. Pt to Pt operation.

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