

REGULATORY COMPLIANCE TEST REPORT

FCC CFR 47 15.407, RSS-247 Issue 2

Report No.: RDWN69-U2 Rev A Part 2 Spurious Emissions

Company: Radwin Ltd.

Model Name: RADWIN JET DUO 5.x/5.x GHz



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To: FCC CFR 47 Part 15 Subpart E 15.407, RSS-247

Test Report Serial No.: RDWN69-U2 Rev A Part 2: Spurious Emissions

This report supersedes: NONE

Applicant: Radwin Ltd. 27 Habarzel Street Tel Aviv, 6971039 Israel

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This Test Report is Issued Under the Authority of:

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1. TEST RESULTS

1.1. Radiated Spurious Emissions

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								
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:

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

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

(5) 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.

(6) 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.

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

(8) 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

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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);

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

where P is the EIRP in Watts

Therefore: -27 dBm/MHz equates to 68.23 dBuV/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:

	Frequer	ncy 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 Ltd. AP0200600

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5265.00	Data Rate:	6.00 MBit/s
Power Setting:	15.0	Tested By:	JMH

	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	5266.95	75.71	2.91	-12.21	66.41	Fundamental	Vertical	150	0		-	
#2	6250.09	54.20	3.25	-9.49	47.96	Peak (NRB)	Vertical	150	360			Pass
#3	10531.75	46.90	4.70	-5.26	46.34	Peak (NRB)	Horizontal	150	343			Pass
Test Not	tes: EUT pow	ered by F	OE, conr	nected to	laptop out	side chamber.						



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5300.00	Data Rate:	6.00 MBit/s
Power Setting:	14.0	Tested By:	JMH

	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	5305.54	73.54	3.07	-11.95	64.66	Fundamental	Horizontal	100	0			
#2	10601.12	61.25	4.53	-4.92	60.86	Max Peak	Horizontal	178	330	68.2	-7.4	Pass
#3	10601.12	46.83	4.53	-4.92	46.44	Max Avg	Horizontal	178	330	54.0	-7.6	Pass
Test Not	tes: EUT pow	ered by F	OE, conr	nected to	laptop outs	side chamber.						



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5330.00	Data Rate:	6.00 MBit/s
Power Setting:	14.0	Tested By:	JMH

	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	5330.65	73.69	3.01	-11.98	63.72	Fundamental	Horizontal	100	0			
#2	6250.16	53.79	3.25	-9.49	47.55	Peak (NRB)	Vertical	157	0			Pass
#3	10662.03	58.82	4.56	-4.89	58.49	Max Peak	Horizontal	168	332	68.2	-9.7	Pass
#4	10662.03	44.00	4.56	-4.89	43.67	Max Avg	Horizontal	168	332	54.0	-10.3	Pass
Test Not	tes: EUT powe	ered by P	OE, conr	nected to	laptop outs	side chamber.						



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5490.00	Data Rate:	6.00 MBit/s
Power Setting:	14.5	Tested By:	JMH

	1000.00 - 18000.00 MHz										
Num	Num Frequency Raw Cable AF Level Measurement Pol Hgt cm Azt Limit Margin Pass MHz dBµV Loss dB/m dBµV/m Type Deg dBµV/m dB /Fail										
#1	#1 5487.89 58.28 3.17 -11.70 49.75 Fundamental Vertical 150 0										
Test Not	Test Notes: EUT powered by POE, connected to laptop outside chamber.										



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5590.00	Data Rate:	6.00 MBit/s
Power Setting:	13.0	Tested By:	JMH

					1000	.00 - 18000.00 N	//Hz					
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	5586.83	65.89	3.14	-11.57	57.46	Fundamental	Horizontal	100	0			
Test Not	est Notes: EUT powered by POE, connected to laptop outside chamber.											



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5705.00	Data Rate:	6.00 MBit/s
Power Setting:	15.0	Tested By:	JMH

	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	5701.02	62.15	3.19	-11.35	53.99	Fundamental	Horizontal	151	0				
#2	6249.85	50.72	3.25	-9.50	44.47	Peak (NRB)	Vertical	151	0			Pass	
Test Not	est Notes: EUT powered by POE, connected to laptop outside chamber.												



1.1.1.2. RADWIN Ltd. AP0200600-BF

Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5265.00	Data Rate:	6.00 MBit/s
Power Setting:	7.0	Tested By:	JMH

	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	5267.61	76.57	2.91	-12.21	67.27	Fundamental	Horizontal	151	0			
#2	6250.04	56.57	3.25	-9.49	50.33	Peak (NRB)	Horizontal	151	0			Pass
Test No	est Notes: EUT powered by POE, connected to laptop outside chamber.											



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5300.00	Data Rate:	6.00 MBit/s
Power Setting:	6.5	Tested By:	JMH

	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	5302.67	75.86	3.06	-11.97	66.95	Fundamental	Horizontal	151	0				
#2	6250.03	56.39	3.25	-9.49	50.15	Peak (NRB)	Horizontal	151	0			Pass	
Test Not	est Notes: EUT powered by POE, connected to laptop outside chamber.												



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5330.00	Data Rate:	6.00 MBit/s
Power Setting:	7.0	Tested By:	JMH

					1000	.00 - 18000.00 N	ИHz					
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	5327.76	73.86	2.96	-11.96	64.86	Fundamental	Horizontal	150	0			
#2	6249.89	56.81	3.25	-9.50	50.56	Peak (NRB)	Horizontal	150	0			Pass
Test Not	est Notes: EUT powered by POE, connected to laptop outside chamber.											



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5490.00	Data Rate:	6.00 MBit/s
Power Setting:	5.5	Tested By:	JMH

					1000	.00 - 18000.00 N	/Hz					
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	4867.76	60.58	2.93	-12.52	50.99	Max Peak	Horizontal	194	2	68.2	-17.2	Pass
#2	4867.76	46.29	2.93	-12.52	36.70	Max Avg	Horizontal	194	2	54.0	-17.3	Pass
#3	5493.65	62.36	3.09	-11.65	53.80	Fundamental	Horizontal	151	0			
#4	6249.85	56.29	3.25	-9.50	50.04	Peak (NRB)	Horizontal	151	0			Pass
Test Not	est Notes: EUT powered by POE, connected to laptop outside chamber.											



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5590.00	Data Rate:	6.00 MBit/s
Power Setting:	5.5	Tested By:	JMH

	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	4835.87	60.15	2.82	-12.53	50.44	Max Peak	Horizontal	141	3	68.2	-17.8	Pass
#2	4835.87	46.28	2.82	-12.53	36.57	Max Avg	Horizontal	141	3	54.0	-17.4	Pass
#3	5586.02	73.05	3.13	-11.56	64.62	Fundamental	Horizontal	156	0			
#4	#4 6249.74 54.00 3.25 -9.50 47.75 Peak (NRB) Horizontal 156 0 Pass											
Test Not	Test Notes: EUT powered by POE, connected to laptop outside chamber.											



Equipment Configuration for TX Spurious & Restricted Band Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5705.00	Data Rate:	6.00 MBit/s
Power Setting:	5.5	Tested By:	JMH

	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	4839.67	61.36	2.82	-12.55	51.63	Max Peak	Horizontal	156	0	68.2	-16.6	Pass
#2	4839.67	47.42	2.82	-12.55	37.69	Max Avg	Horizontal	156	0	54.0	-16.3	Pass
#3	5701.40	62.80	3.19	-11.35	54.64	Fundamental	Horizontal	151	0			
#4	#4 6250.07 54.85 3.25 -9.49 48.61 Peak (NRB) Horizontal 151 0 Pass											
Test Not	Test Notes: EUT powered by POE, connected to laptop outside chamber.											



1.1.2. Restricted Edge & Band-Edge Emissions

1.1.2.3. RADWIN Ltd. AP0200600

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5250 - 5350 MHz

RADWIN Ltd	I. AP0200600	Band-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Derman Catting	
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	Power Setting	
20 MHz	5330.00	5350.00	68.85	53.07	13.0	
40 MHz	5320.00	5350.00	71.32	53.82	8.5	
80 MHz	5300.00	5350.00	70.91	53.50	8.0	

5470 - 5725 MHz

RADWIN Ltd	I. AP0200600	Restricted-Edge Freq	Limit 68.23dBµV/m	Limit 54.0dBµV/m	Power Setting	
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	I ower octaing	
20 MHz	5490.00	5490.00 5460.00		45.29	14.5	
40 MHz	5500.00	5460.00	67.99	44.89	8.5	
80 MHz	5525.00	5460.00	67.99	46.54	9.0	

Click on the links to view the data.



Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5330.00	Data Rate:	6.00 MBit/s
Power Setting:	13.0	Tested By:	JMH

	5300.00 - 5460.00 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	5350.00	15.55	3.06	34.46	53.07	Max Avg	Horizontal	174	358	54.0	-0.9	Pass
#3	5350.96	31.33	3.06	34.46	68.85	Max Peak	Horizontal	174	358	74.0	-5.2	Pass
#2	#2 5350.00 Restricted- Band											
	Test Notes: EUT powered by POE, connected to laptop outside chamber. Added 0.41 to average marker to compensate for Duty cycle correction.											



Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	40 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	82.4
Channel Frequency (MHz):	5320.00	Data Rate:	13.90 MBit/s
Power Setting:	8.5	Tested By:	JMH

	5300.00 - 5460.00 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	5350.00	16.30	3.06	34.46	53.82	Max Avg	Horizontal	174	358	54.0	-0.2	Pass
#3	5350.64	33.80	3.06	34.46	71.32	Max Peak	Horizontal	174	358	74.0	-2.8	Pass
#2	5350.00					Restricted- Band						
	Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power Reduced to meet Band Edge Limit											



Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	80 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	72.5
Channel Frequency (MHz):	5300.00	Data Rate:	26.50 MBit/s
Power Setting:	8.0	Tested By:	JMH

	5300.00 - 5460.00 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	5350.00	15.98	3.06	34.46	53.50	Max Avg	Horizontal	174	358	54.0	-0.5	Pass
#3	5350.64	33.39	3.06	34.46	70.91	Max Peak	Horizontal	174	358	74.0	-3.1	Pass
#2	#2 5350.00 Restricted- Band											
	Test Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power Reduced to meet Band Edge Limit											



Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	91
Channel Frequency (MHz):	5490.00	Data Rate:	6.00 MBit/s
Power Setting:	14.5	Tested By:	JMH

	5350.00 - 5500.00 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	5460.00	7.70	3.06	34.53	45.29	Max Avg	Horizontal	193	353	54.0	-8.7	Pass
#3	5470.00	29.51	3.06	34.55	67.12	Max Peak	Horizontal	193	353	68.2	-1.1	Pass
#2	5460.00		-			Restricted- Band						
#4	5470.00					Band-Edge						
Test No	Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.41 dB added to average measurement.											



Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	40 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	82.4
Channel Frequency (MHz):	5500.00	Data Rate:	13.90 MBit/s
Power Setting:	8.5	Tested By:	JMH

	5350.00 - 5500.00 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	5460.00	7.30	3.06	34.53	44.89	Max Avg	Horizontal	193	353	54.0	-9.1	Pass
#3	5470.00	30.38	3.06	34.55	67.99	Max Peak	Horizontal	193	353	68.2	-0.2	Pass
#2	5460.00					Restricted- Band						
#4	#4 5470.00 Band-Edge											
	Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power reduced to meet Band Edge Limit											



Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600	Variant:	80 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	72.5
Channel Frequency (MHz):	5525.00	Data Rate:	29.50 MBit/s
Power Setting:	9.0	Tested By:	JMH

	5350.00 - 5500.00 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	5460.00	8.95	3.06	34.53	46.54	Max Avg	Horizontal	193	353	54.0	-7.5	Pass
#3	5470.00	30.38	3.06	34.55	67.99	Max Peak	Horizontal	193	353	68.2	-0.2	Pass
#2	5460.00					Restricted- Band						
#4	#4 5470.00 Band-Edge											
	est Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power reduced to neet Band Edge Limit											



1.1.2.4. RADWIN Ltd. AP0200600-BF

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

5250 - 5350 MHz

RADWIN Ltd.	AP0200600-BF	Band-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Dower Sotting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	Power Setting
20 MHz	5330.00	5350.00	69.24	52.96	7.0
40 MHz	5320.00	5350.00	72.54	53.71	4.0
80 MHz	5300.00	5350.00	73.74	53.50	3.5

5470 - 5725 MHz

RADWIN Ltd.	AP0200600-BF	Restricted-Edge Freq	Limit 68.23 dBµV/m	Limit 54.0dBµV/m	Power Setting	
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	Power Setting	
20 MHz	5490.00	5460.00	67.46	46.28	5.0	
40 MHz	5500.00	5460.00	68.12	45.45	-1.5	
80 MHz	5525.00	5460.00	67.58	46.54	-1.0	

Click on the links to view the data.



Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5330.00	Data Rate:	6.00 MBit/s
Power Setting:	7.0	Tested By:	JMH

	5300.00 - 5460.00 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	5350.00	15.44	3.06	34.46	52.96	Max Avg	Horizontal	174	358	54.0	-1.0	Pass
#3	5352.57	31.72	3.05	34.47	69.24	Max Peak	Horizontal	174	358	74.0	-4.8	Pass
#2	5350.00					Restricted- Band						
Test No	est Notes: EUT powered by POE, connected to laptop outside chamber. 0.41 dB added to average measurement.											



Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	40 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	82.4
Channel Frequency (MHz):	5320.00	Data Rate:	13.90 MBit/s
Power Setting:	4.0	Tested By:	JMH

	5300.00 - 5460.00 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	5350.00	15.35	3.06	34.46	53.71	Max Avg	Horizontal	174	358	54.0	-0.3	Pass
#3	5350.64	35.02	3.06	34.46	72.54	Max Peak	Horizontal	174	358	74.0	-1.5	Pass
#2	#2 5350.00 Restricted- Band											
	Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power Reduced to meet Band Edge Limit											



Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	80 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	72.5
Channel Frequency (MHz):	5300.00	Data Rate:	26.50 MBit/s
Power Setting:	3.5	Tested By:	JMH

	5300.00 - 5460.00 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	5350.00	15.98	3.06	34.46	53.50	Max Avg	Horizontal	174	358	54.0	-0.5	Pass		
#2	5350.00	36.22	3.06	34.46	73.74	Max Peak	Horizontal	174	358	74.0	-0.3	Pass		
#3	5350.00					Restricted- Band								
	Fest Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power Reduced to neet Band Edge Limit													



Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	20 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	91
Channel Frequency (MHz):	5490.00	Data Rate:	6.00 MBit/s
Power Setting:	5.0	Tested By:	JMH

	5350.00 - 5500.00 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	5460.00	8.69	3.06	34.53	46.28	Max Avg	Horizontal	174	358	54.0	-7.7	Pass		
#3	5470.00	29.85	3.06	34.55	67.46	Max Peak	Horizontal	174	358	68.2	-0.8	Pass		
#2	5460.00					Restricted- Band								
#4	5470.00	-				Band-Edge								
	Fest Notes: EUT powered by POE, connected to laptop outside chamber. 0.41 dB added to average measurement. Power reduced to neet Band Edge Limit													



Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	40 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	82.4
Channel Frequency (MHz):	5500.00	Data Rate:	13.90 MBit/s
Power Setting:	-1.5	Tested By:	JMH

	5350.00 - 5500.00 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	5460.00	7.86	3.06	34.53	45.45	Max Avg	Horizontal	174	358	54.0	-8.6	Pass		
#3	5469.10	30.51	3.06	34.55	68.12	Max Peak	Horizontal	174	358	68.2	-0.1	Pass		
#2	5460.00					Restricted- Band								
#4	5470.00	-				Band-Edge								
	est Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power reduced to neet Band Edge Limit													



Equipment Configuration for Restricted Lower Band-Edge Emissions

Antenna:	RADWIN Ltd. AP0200600-BF	Variant:	80 MHz
Antenna Gain (dBi):	9.00	Modulation:	OFDM
Beam Forming Gain (Y):	10	Duty Cycle (%):	72.5
Channel Frequency (MHz):	5525.00	Data Rate:	29.50 MBit/s
Power Setting:	-1.0	Tested By:	JMH

	5350.00 - 5500.00 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	5460.00	8.95	3.06	34.53	46.54	Max Avg	Horizontal	174	358	54.0	-7.5	Pass		
#3	5469.70	29.97	3.06	34.55	67.58	Max Peak	Horizontal	174	358	68.2	-0.7	Pass		
#2	5460.00					Restricted- Band			-					
#4	5470.00	-				Band-Edge								
	est Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power reduced to neet Band Edge Limit													



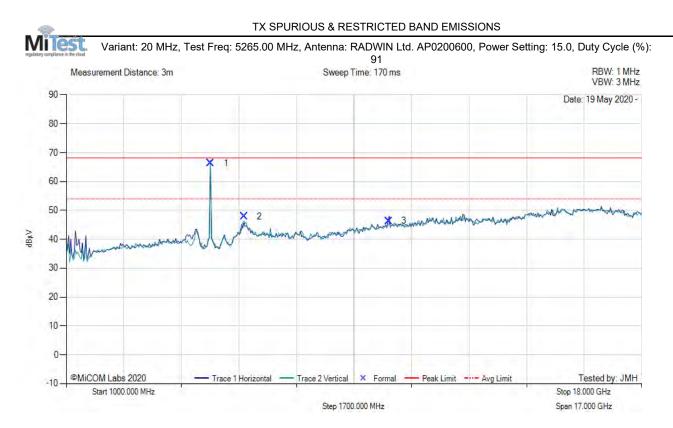
APPENDIX A - GRAPHICAL IMAGES



A.1. Radiated

A.1.1. TX Spurious & Restricted Band Emissions

A.1.1.1. RADWIN Ltd. AP0200600



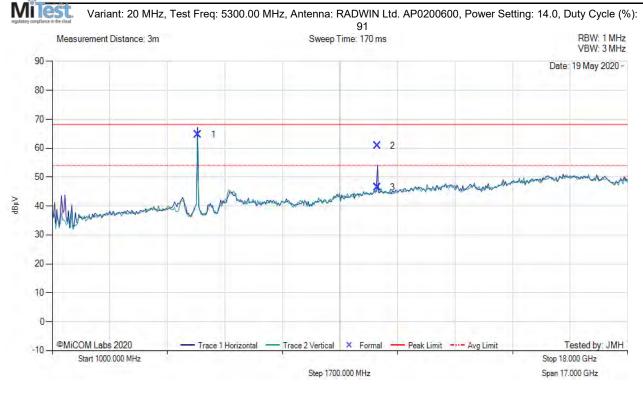
	1000.00 - 18000.00 MHz													
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail		
1	5266.95	75.71	2.91	-12.21	66.41	Fundamental	Vertical	150	0		-			
2	6250.09	54.20	3.25	-9.49	47.96	Peak (NRB)	Vertical	150	360			Pass		
3	10531.75	46.90	4.70	-5.26	46.34	Peak (NRB)	Horizontal	150	343			Pass		

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

back to matrix



TX SPURIOUS & RESTRICTED BAND EMISSIONS



	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	5305.54	73.54	3.07	-11.95	64.66	Fundamental	Horizontal	100	0					
2	10601.12	61.25	4.53	-4.92	60.86	Max Peak	Horizontal	178	330	68.2	-7.4	Pass		
3	10601.12	46.83	4.53	-4.92	46.44	Max Avg	Horizontal	178	330	54.0	-7.6	Pass		

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

back to matrix



TX SPURIOUS & RESTRICTED BAND EMISSIONS



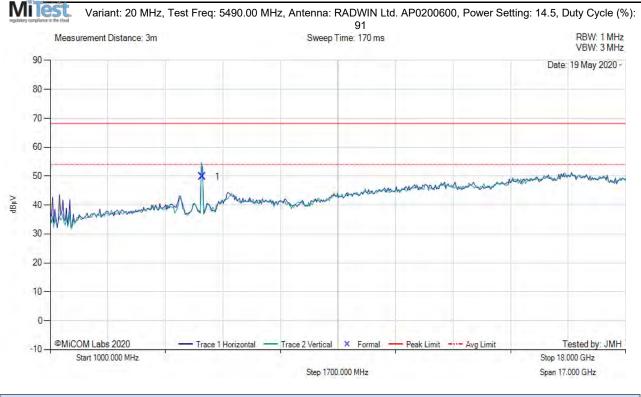
	1000.00 - 18000.00 MHz													
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail		
1	5330.65	73.69	3.01	-11.98	63.72	Fundamental	Horizontal	100	0		-			
2	6250.16	53.79	3.25	-9.49	47.55	Peak (NRB)	Vertical	157	0			Pass		
3	10662.03	58.82	4.56	-4.89	58.49	Max Peak	Horizontal	168	332	68.2	-9.7	Pass		
4	10662.03	44.00	4.56	-4.89	43.67	Max Avg	Horizontal	168	332	54.0	-10.3	Pass		

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

back to matrix



TX SPURIOUS & RESTRICTED BAND EMISSIONS

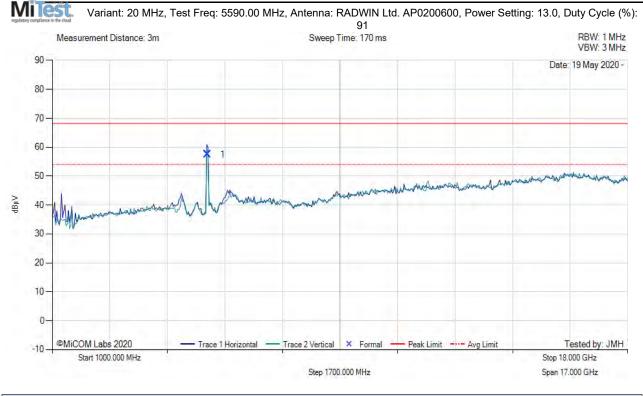


					1000.	00 - 18000.00 M	Hz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5487.89	58.28	3.17	-11.70	49.75	Fundamental	Vertical	150	0			

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



TX SPURIOUS & RESTRICTED BAND EMISSIONS

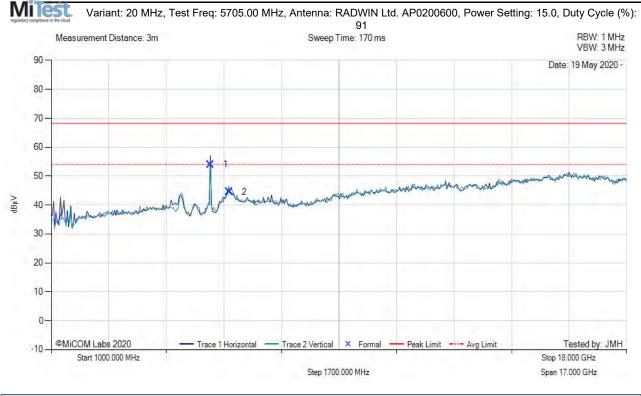


					1000	.00 - 18000.00 N	lHz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5586.83	65.89	3.14	-11.57	57.46	Fundamental	Horizontal	100	0			

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



TX SPURIOUS & RESTRICTED BAND EMISSIONS

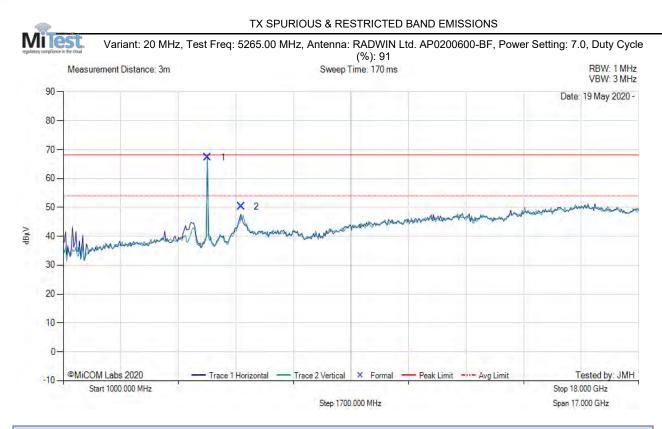


					1000	.00 - 18000.00 N	1Hz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5701.02	62.15	3.19	-11.35	53.99	Fundamental	Horizontal	151	0			
2	6249.85	50.72	3.25	-9.50	44.47	Peak (NRB)	Vertical	151	0			Pass

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



A.1.1.2. RADWIN Ltd. AP0200600-BF



					1000	.00 - 18000.00 N	/Hz					
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	5267.61	76.57	2.91	-12.21	67.27	Fundamental	Horizontal	151	0			
2	6250.04	56.57	3.25	-9.49	50.33	Peak (NRB)	Horizontal	151	0			Pass

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



TX SPURIOUS & RESTRICTED BAND EMISSIONS

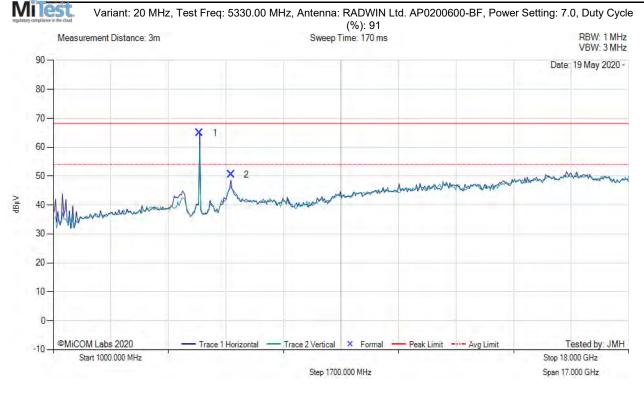


					1000	.00 - 18000.00 N	1Hz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5302.67	75.86	3.06	-11.97	66.95	Fundamental	Horizontal	151	0			
2	6250.03	56.39	3.25	-9.49	50.15	Peak (NRB)	Horizontal	151	0			Pass

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



TX SPURIOUS & RESTRICTED BAND EMISSIONS



					1000	.00 - 18000.00 N	lHz					
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	5327.76	73.86	2.96	-11.96	64.86	Fundamental	Horizontal	150	0			
2	6249.89	56.81	3.25	-9.50	50.56	Peak (NRB)	Horizontal	150	0			Pass

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



TX SPURIOUS & RESTRICTED BAND EMISSIONS



					1000	.00 - 18000.00 N	1Hz					
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	4867.76	60.58	2.93	-12.52	50.99	Max Peak	Horizontal	194	2	68.2	-17.2	Pass
2	4867.76	46.29	2.93	-12.52	36.70	Max Avg	Horizontal	194	2	54.0	-17.3	Pass
3	5493.65	62.36	3.09	-11.65	53.80	Fundamental	Horizontal	151	0			
4	6249.85	56.29	3.25	-9.50	50.04	Peak (NRB)	Horizontal	151	0			Pass
	<u>.</u>		•	•	•	•						

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



TX SPURIOUS & RESTRICTED BAND EMISSIONS



					1000	.00 - 18000.00 N	1Hz					
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	4835.87	60.15	2.82	-12.53	50.44	Max Peak	Horizontal	141	3	68.2	-17.8	Pass
2	4835.87	46.28	2.82	-12.53	36.57	Max Avg	Horizontal	141	3	54.0	-17.4	Pass
3	5586.02	73.05	3.13	-11.56	64.62	Fundamental	Horizontal	156	0			
4	6249.74	54.00	3.25	-9.50	47.75	Peak (NRB)	Horizontal	156	0			Pass
	-											

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



TX SPURIOUS & RESTRICTED BAND EMISSIONS



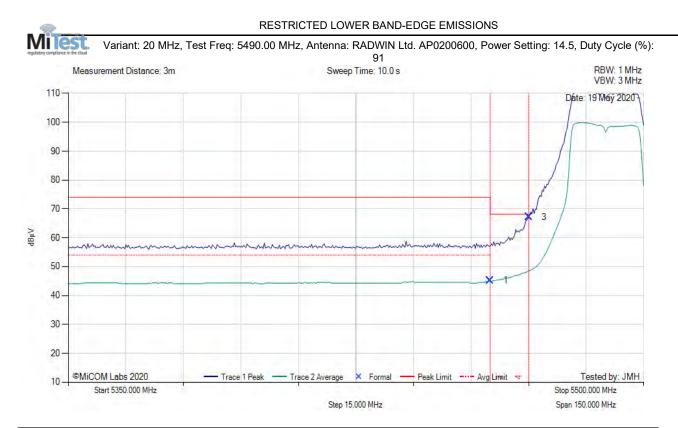
					1000	.00 - 18000.00 N	1Hz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	4839.67	61.36	2.82	-12.55	51.63	Max Peak	Horizontal	156	0	68.2	-16.6	Pass
2	4839.67	47.42	2.82	-12.55	37.69	Max Avg	Horizontal	156	0	54.0	-16.3	Pass
3	5701.40	62.80	3.19	-11.35	54.64	Fundamental	Horizontal	151	0			
4	6250.07	54.85	3.25	-9.49	48.61	Peak (NRB)	Horizontal	151	0			Pass

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



A.1.2. Restricted Edge & Band-Edge Emissions

A.1.2.3. RADWIN Ltd. AP0200600

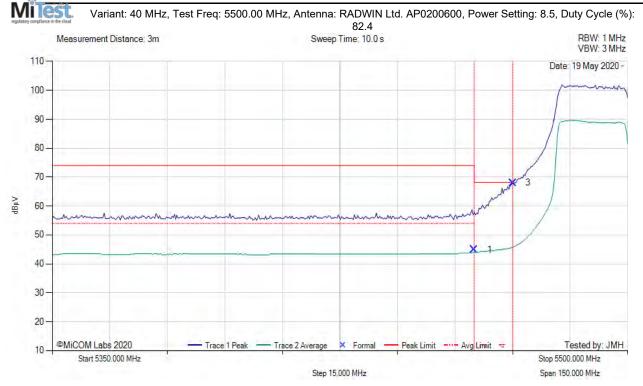


					5350).00 - 5500.00 M	Hz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5460.00	7.70	3.06	34.53	45.29	Max Avg	Horizontal	193	353	54.0	-8.7	Pass
3	5470.00	29.51	3.06	34.55	67.12	Max Peak	Horizontal	193	353	68.2	-1.1	Pass
2	5460.00					Restricted- Band						
4	5470.00					Band-Edge						

Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.41 dB added to average measurement.



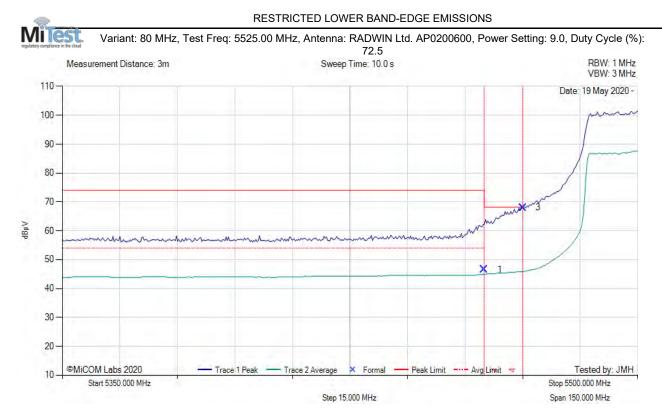
RESTRICTED LOWER BAND-EDGE EMISSIONS



					5350	0.00 - 5500.00 M	Hz					
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	5460.00	7.30	3.06	34.53	44.89	Max Avg	Horizontal	193	353	54.0	-9.1	Pass
3	5470.00	30.38	3.06	34.55	67.99	Max Peak	Horizontal	193	353	68.2	-0.2	Pass
2	5460.00					Restricted- Band						
4	5470.00					Band-Edge						

Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power reduced to meet Band Edge Limit

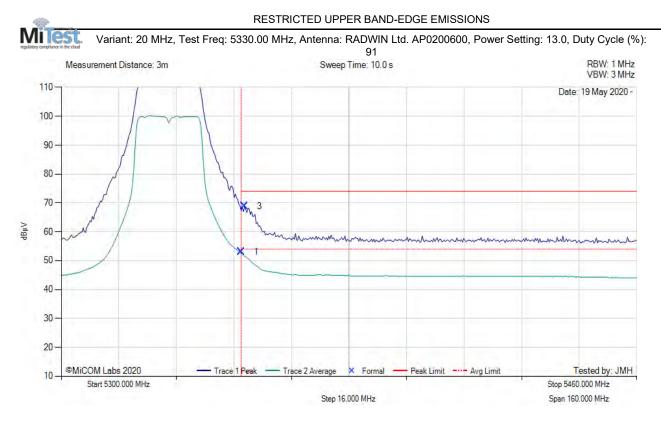




					5350	0.00 - 5500.00 M	Hz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5460.00	8.95	3.06	34.53	46.54	Max Avg	Horizontal	193	353	54.0	-7.5	Pass
3	5470.00	30.38	3.06	34.55	67.99	Max Peak	Horizontal	193	353	68.2	-0.2	Pass
2	5460.00					Restricted- Band						
4	5470.00					Band-Edge						

Test Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power reduced to meet Band Edge Limit

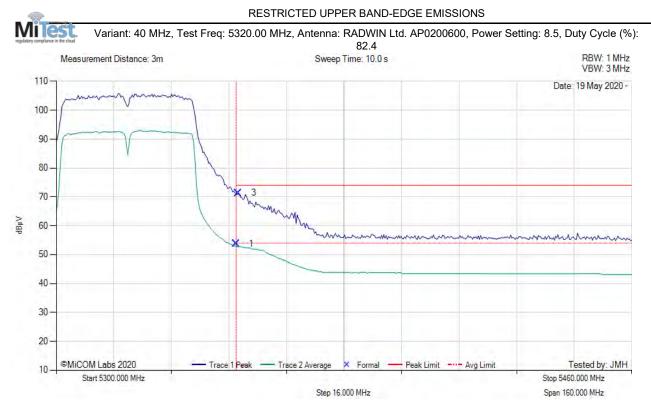




	5300.00 - 5460.00 MHz														
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail			
1	5350.00	15.55	3.06	34.46	53.07	Max Avg	Horizontal	174	358	54.0	-0.9	Pass			
3	5350.96	31.33	3.06	34.46	68.85	Max Peak	Horizontal	174	358	74.0	-5.2	Pass			
2	5350.00					Restricted- Band									

Test Notes: EUT powered by POE, connected to laptop outside chamber. Added 0.41 to average marker to compensate for Duty cycle correction.

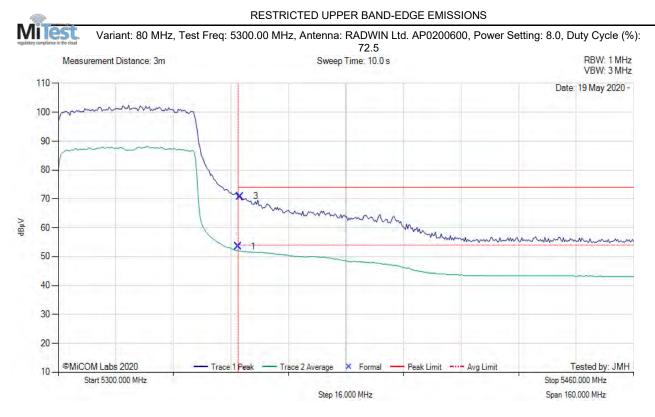




	5300.00 - 5460.00 MHz														
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail			
1	5350.00	16.30	3.06	34.46	53.82	Max Avg	Horizontal	174	358	54.0	-0.2	Pass			
3	5350.64	33.80	3.06	34.46	71.32	Max Peak	Horizontal	174	358	74.0	-2.8	Pass			
2	5350.00					Restricted- Band									

Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power Reduced to meet Band Edge Limit



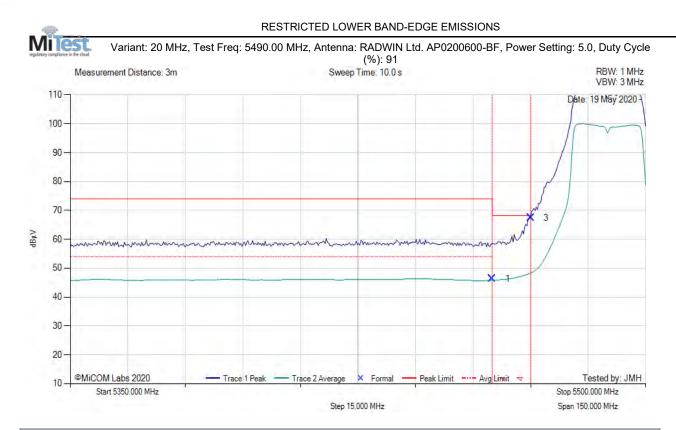


	5300.00 - 5460.00 MHz														
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail			
1	5350.00	15.98	3.06	34.46	53.50	Max Avg	Horizontal	174	358	54.0	-0.5	Pass			
3	5350.64	33.39	3.06	34.46	70.91	Max Peak	Horizontal	174	358	74.0	-3.1	Pass			
2	5350.00					Restricted- Band									

Test Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power Reduced to meet Band Edge Limit



A.1.2.4. RADWIN Ltd. AP0200600-BF

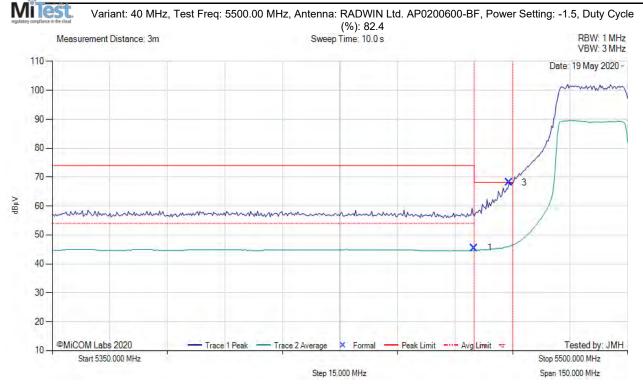


					5350).00 - 5500.00 M	Hz					
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5460.00	8.69	3.06	34.53	46.28	Max Avg	Horizontal	174	358	54.0	-7.7	Pass
3	5470.00	29.85	3.06	34.55	67.46	Max Peak	Horizontal	174	358	68.2	-0.8	Pass
2	5460.00					Restricted- Band			-			
4	5470.00					Band-Edge						

Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.41 dB added to average measurement. Power reduced to meet Band Edge Limit



RESTRICTED LOWER BAND-EDGE EMISSIONS

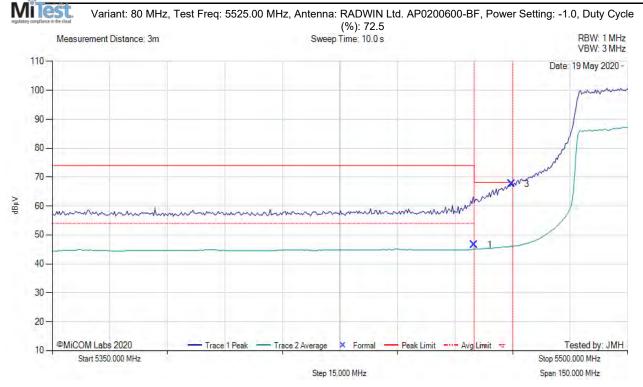


	5350.00 - 5500.00 MHz														
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail			
1	5460.00	7.86	3.06	34.53	45.45	Max Avg	Horizontal	174	358	54.0	-8.6	Pass			
3	5469.10	30.51	3.06	34.55	68.12	Max Peak	Horizontal	174	358	68.2	-0.1	Pass			
2	5460.00					Restricted- Band									
4	5470.00					Band-Edge									

Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power reduced to meet Band Edge Limit



RESTRICTED LOWER BAND-EDGE EMISSIONS

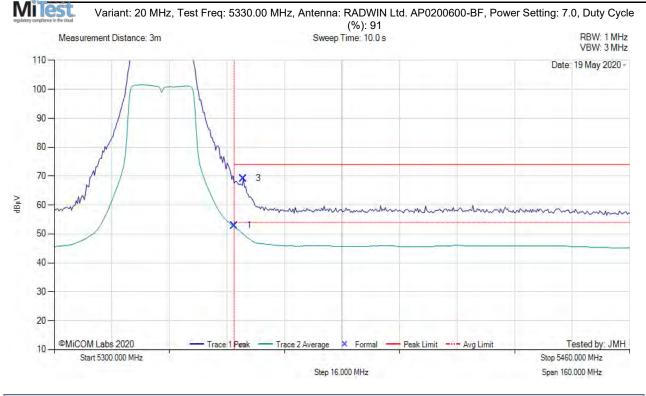


	5350.00 - 5500.00 MHz														
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail			
1	5460.00	8.95	3.06	34.53	46.54	Max Avg	Horizontal	174	358	54.0	-7.5	Pass			
3	5469.70	29.97	3.06	34.55	67.58	Max Peak	Horizontal	174	358	68.2	-0.7	Pass			
2	5460.00					Restricted- Band									
4	5470.00					Band-Edge									

Test Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power reduced to meet Band Edge Limit



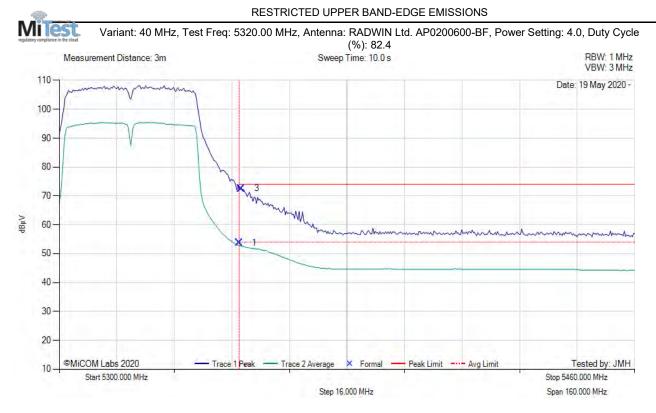
RESTRICTED UPPER BAND-EDGE EMISSIONS



	5300.00 - 5460.00 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	5350.00	15.44	3.06	34.46	52.96	Max Avg	Horizontal	174	358	54.0	-1.0	Pass			
3	5352.57	31.72	3.05	34.47	69.24	Max Peak	Horizontal	174	358	74.0	-4.8	Pass			
2	5350.00					Restricted- Band									

Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.41 dB added to average measurement.

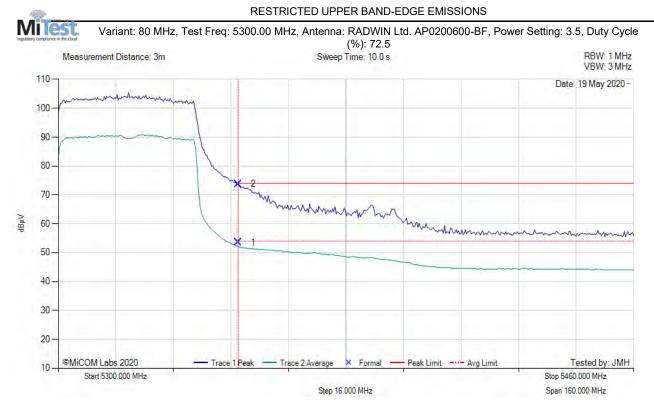




	5300.00 - 5460.00 MHz														
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB/m	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail			
1	5350.00	15.35	3.06	34.46	53.71	Max Avg	Horizontal	174	358	54.0	-0.3	Pass			
3	5350.64	35.02	3.06	34.46	72.54	Max Peak	Horizontal	174	358	74.0	-1.5	Pass			
2	5350.00					Restricted- Band									

Test Notes: EUT powered by POE, connected to laptop outside chamber. 0.84 dB added to average measurement. Power Reduced to meet Band Edge Limit





	5300.00 - 5460.00 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	5350.00	15.98	3.06	34.46	53.50	Max Avg	Horizontal	174	358	54.0	-0.5	Pass			
2	5350.00	36.22	3.06	34.46	73.74	Max Peak	Horizontal	174	358	74.0	-0.3	Pass			
3	5350.00					Restricted- Band									

Test Notes: EUT powered by POE, connected to laptop outside chamber. 1.4 dB added to average measurement. Power Reduced to meet Band Edge Limit





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