TEST REPORT ADDENDUM – RADIATED



Test of: Silver Spring Networks Milli™ 5

To: FCC CFR 47 Part 15 Subpart C 15.247 & IC RSS 247 (DTS)

Test Report Serial No.: SSNT122-U2_Radiated Rev A

Issue Date: 13th October 2016

Master Document Number	Addendum Reports
SSNT122-U2 Master	SSNT122-U2_Conducted
33NT 122-02_Waster	SSNT122-U2_Radiated



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1. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Testing and report automation was performed by <u>MiTest</u>. <u>MiTest</u> is an automated test system developed by MiCOM Labs. <u>MiTest</u> is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for regulatory compliance.



2. TEST RESULTS

2.1. Radiated Emissions

Radiated Test C	Radiated Test Conditions for Radiated Spurious and Band-Edge Emissions (Restricted Bands)								
Standard:	FCC CFR 47 Part 15 Subpart C 15.247 (DTS) & RSS GEN	Ambient Temp. (ºC):	20.0 - 24.5						
Test Heading:	Radiated Spurious	Rel. Humidity (%):	32 - 45						
Standard Section(s):	15.205, 15.209 & 8.9	Pressure (mBars):	999 - 1001						
Reference Document(s):	See Normative References								

Test Procedure for Radiated Spurious and Band-Edge Emissions (Restricted Bands)

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

Limits for Restricted Bands 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:

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 FactorNFL = Notch Filter Loss or Waveguide Loss

Example:

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

FS = 51.5 + 8.5 + 1.3 - 26.0 +1 = 36.3 dBmV/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)

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(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 4.5-5.15 0.090-0.110 16.42-16.423 399.9-410 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.

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(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).



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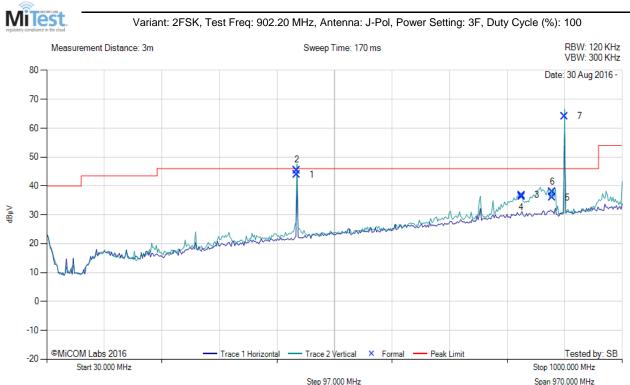
2.1.1. Restricted Band Emissions

Integral Antenna

Equipment Configuration for Radiated Emissions (0.03 - 1 GHz) Class B

Antenna:	J-Pol	Variant:	2FSK
Antenna Gain (dBi):	3 dBi	Modulation:	FHSS
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	100
Channel Frequency (MHz):	902.20	Data Rate:	50 kbps
Power Setting:	3F	Tested By:	SB

Test Measurement Results



20.00 4000 00 MILL

	30.00 - 1000.00 MHz											
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	451.14	52.60	5.18	-13.91	43.87	Peak (NRB)	Vertical	100	0			Pass
2	451.14	54.18	5.18	-13.91	45.45	MaxQP	Vertical	100	185	46.0	-0.6	Pass
3	830.20	38.94	6.18	-8.30	36.82	Peak (NRB)	Vertical	100	0			Pass
4	830.20	38.31	6.18	-8.30	36.19	MaxQP	Vertical	101	193	46.0	-9.8	Pass
5	882.26	37.77	6.28	-8.12	35.93	MaxQP	Vertical	138	201	46.0	-10.1	Pass
6	882.26	39.72	6.28	-8.12	37.88	Peak (NRB)	Vertical	100	0			Pass
7	902.21	65.54	6.34	-7.79	64.09	Fundamental	Vertical	100	0			
Test No	tes: 3.3VDC,											

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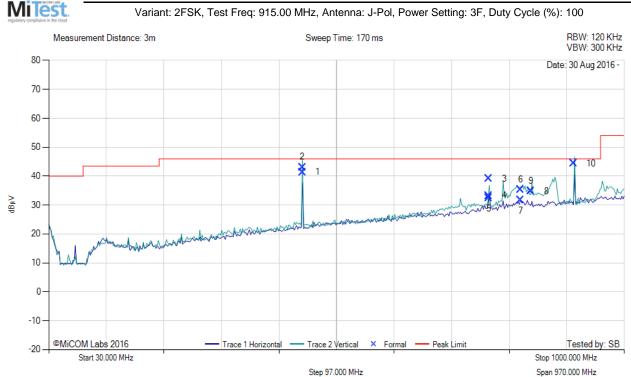


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Equipment Configuration for Radiated Emissions (0.03 - 1 GHz) Class B

Antenna:	J-Pol	Variant:	2FSK
Antenna Gain (dBi):	3 dBi	Modulation:	FHSS
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	100
Channel Frequency (MHz):	915.20	Data Rate:	50 kbps
Power Setting:	3F	Tested By:	SB

Test Measurement Results



	30.00 - 1000.00 MHz											
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	457.54	49.87	5.20	-13.68	41.39	Peak (NRB)	Vertical	100	1			Pass
2	457.54	51.56	5.20	-13.68	43.08	MaxQP	Vertical	100	189	46.0	-2.9	Pass
3	772.02	42.35	6.05	-9.24	39.16	MaxQP	Vertical	115	153	46.0	-6.8	Pass
4	772.02	36.42	6.05	-9.24	33.23	Peak (NRB)	Vertical	100	1			Pass
5	772.05	35.59	6.05	-9.24	32.40	Peak (NRB)	Vertical	100	1			Pass
6	824.93	37.47	6.17	-8.31	35.33	Peak (NRB)	Vertical	100	1			Pass
7	824.93	33.78	6.17	-8.31	31.64	MaxQP	Vertical	100	196	46.0	-14.4	Pass
8	843.03	37.02	6.26	-8.43	34.85	Peak (NRB)	Vertical	100	1			Pass
9	843.03	36.89	6.26	-8.43	34.72	MaxQP	Vertical	100	189	46.0	-11.3	Pass
10	915.01	45.68	6.39	-7.75	44.32	Fundamental	Vertical	100	1	46.0	-1.7	Pass
Test No	tes: 3.3VDC,											



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Equipment Configuration for Radiated Emissions (0.03 - 1 GHz) Class B									
Antenna:	J-Pol	Variant:	2FSK						
Antenna Gain (dBi):	3 dBi	Modulation:	FHSS						
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	100						
Channel Frequency (MHz):	927.80	Data Rate:	50 kbps						
Power Setting:	3F	Tested By:	SB						
		·							

Test Measurement Results

MiTest Variant: 2FSK, Test Freq: 927.80 MHz, Antenna: J-Pol, Power Setting: 3F, Duty Cycle (%): 100 RBW: 120 KHz VBW: 300 KHz Measurement Distance: 3m Sweep Time: 170 ms 80 Date: 30 Aug 2016 -70 60 50 × 40 2 JBµV 30 march Mar hole Marcan Announ Velagers 20 10 0--10 ©MiCOM Labs 2016 Trace 1 Horizontal Trace 2 Vertical × Formal Peak Limit Tested by: SB -20 -Start 30.000 MHz Stop 1000.000 MHz Span 970.000 MHz Step 97.000 MHz

30.00 - 1000.00 MHz Cable Frequency AF Level Measurement Limit Pass Raw Hgt Azt Margin Num Loss Pol MHz dBµV dB dBµV/m Туре cm Deg dBµV/m dB /Fail dB 463.93 52.38 5.22 -13.47 44.13 MaxQP Vertical 100 183 46.0 -1.9 Pass 1 Peak (NRB) 2 463.93 47.89 5.22 -13.47 Vertical 100 1 Pass 39.64 -----782.83 37.97 6.05 -9.08 34.94 Peak (NRB) Vertical 100 Pass 3 1 -----4 6.05 41.60 172 150 782.83 44.63 -9.08 MaxQP Vertical 46.0 -4.4 Pass 5 882.26 30.87 6.28 -8.12 29.03 MaxQP Vertical 138 197 46.0 -17.0 Pass 6 882.26 37.77 6.28 -8.12 35.93 Peak (NRB) Vertical 100 1 -----Pass 7 927.80 50.54 6.43 -7.44 49.53 Fundamental Vertical 100 1 Test Notes: 3.3VDC,

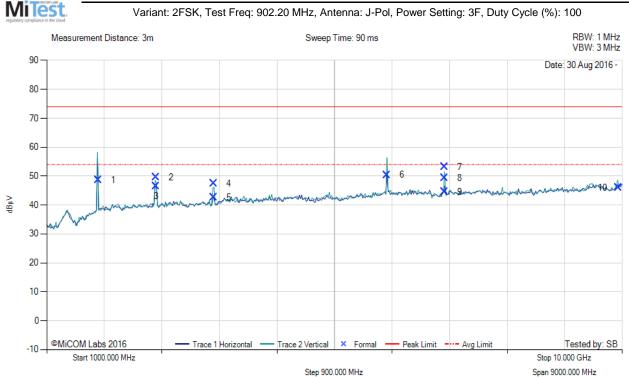
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Equipment Configuration for Radiated Spurious - Restricted Band Emissions								
J-Pol	Variant:	2FSK						
3 dBi	Modulation:	FHSS						
Not Applicable	Duty Cycle (%):	100						
902.20	Data Rate:	50 kbps						
3F	Tested By:	SB						
	J-Pol 3 dBi Not Applicable 902.20	J-Pol Variant: 3 dBi Modulation: Not Applicable Duty Cycle (%): 902.20 Data Rate:						

Test Measurement Results



Step 300.000 Miliz

	1000.00 - 10000.00 MHz											
Num	Frequency MHz	Raw dBµV	Cable Loss dB	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	1804.45	59.77	2.46	-13.63	48.60	Peak (NRB)	Vertical	101	1			Pass
2	2706.54	58.02	2.86	-11.38	49.50	Max Peak	Vertical	145	245	74.0	-24.5	Pass
3	2706.54	55.05	2.86	-11.38	46.53	Max Avg	Vertical	145	245	54.0	-7.5	Pass
4	3608.85	55.46	3.13	-11.15	47.44	Max Peak	Vertical	100	180	74.0	-26.6	Pass
5	3608.85	50.63	3.13	-11.15	42.61	Max Avg	Vertical	100	180	54.0	-11.4	Pass
6	6315.47	54.83	3.92	-8.34	50.41	Peak (NRB)	Vertical	101	1			Pass
7	7217.71	56.14	4.31	-7.35	53.10	Max Peak	Vertical	170	264	74.0	-20.9	Pass
8	7217.71	52.39	4.31	-7.35	49.35	Max Avg	Vertical	170	264	54.0	-4.7	Pass
9	7217.71	47.50	4.31	-7.35	44.46	Peak (NRB)	Vertical	101	1			Pass
10	9936.76	46.17	5.33	-5.47	46.03	Peak (NRB)	Vertical	101	1			Pass
Test No	otes: 3.3VDC,											

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Equipment Configuration for Radiated Spurious - Restricted Band Emissions					
Antenna:	J-Pol	Variant:	2FSK		
Antenna Gain (dBi):	3 dBi	Modulation:	FHSS		
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	100		
Channel Frequency (MHz):	915.20	Data Rate:	50 kbps		
Power Setting:	3F	Tested By:	SB		
	1				

Test Measurement Results

MiTest Variant: 2FSK, Test Freq: 915.00 MHz, Antenna: J-Pol, Power Setting: 3F, Duty Cycle (%): 100 RBW⁻1 MHz Measurement Distance: 3m Sweep Time: 90 ms VBW: 3 MHz 90· Date: 30 Aug 2016 -80 70 60 6 2 7 50 Ť 4 8 5 JBµV 40 30 20 -10 -0 ©MiCOM Labs 2016 - Trace 1 Horizontal 🛛 — Trace 2 Vertical 🛛 🗙 Formal 🗕 - Peak Limit 🛛 ---- Avg Limit Tested by: SB -10 -Start 1000.000 MHz Stop 10.000 GHz Step 900.000 MHz Span 9000.000 MHz

1000.00 - 10000.00 MHz Cable Frequency Measurement Limit Raw AF Level Hgt Azt Margin Pass Num Loss Pol MHz dBµV dB dBµV/m Туре cm Deg dBµV/m dB /Fail dB 1830.10 53.42 -13.54 42.33 Peak (NRB) 101 1 -----Pass 1 2.45 Vertical Max Peak Pass 2 2745.12 61.08 2.84 -11.35 Vertical 167 251 74.0 -21.4 52.57 2745.12 58.65 2.84 -11.35 50.14 Max Avg Vertical 167 251 54.0 -3.9 Pass 3 4 Max Peak 74.0 3660.17 57.67 3.17 -11.04 49.80 Vertical 100 178 -24.2 Pass -8.0 5 3660.17 53.87 3.17 -11.04 46.00 Max Avg Vertical 100 178 54.0 Pass 6 6405.09 59.47 3.96 -8.04 55.39 Peak (NRB) Vertical 101 1 ------Pass 55.80 7 7320.04 4.26 -7.27 52.79 Max Peak Vertical 181 233 74.0 -21.2 Pass 8 7320.04 51.67 -7.27 233 4.26 48.66 Max Avg Vertical 181 54.0 -5.3 Pass Test Notes: 3.3VDC,

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Equipment Configuration for Radiated Spurious - Restricted Band Emissions					
Antenna:	J-Pol	Variant:	2FSK		
Antenna Gain (dBi):	3 dBi	Modulation:	FHSS		
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	100		
Channel Frequency (MHz):	927.80	Data Rate:	50 kbps		
Power Setting:	3F	Tested By:	SB		
	·				

Test Measurement Results

MiTest Variant: 2FSK, Test Freq: 927.80 MHz, Antenna: J-pol, Power Setting: 3F, Duty Cycle (%): 100 RBW⁻1 MHz Measurement Distance: 3m Sweep Time: 90 ms VBW: 3 MHz 90· Date: 30 Aug 2016 -80 70 60 6 50 2 4 × JBµV 40 30 20 -10 -0 ©MiCOM Labs 2016 - Trace 1 Horizontal 🛛 — Trace 2 Vertical 🛛 🗙 Formal 🗕 - Peak Limit 🛛 ---- Avg Limit Tested by: SB Start 1000.000 MHz Stop 10.000 GHz Step 900.000 MHz Span 9000.000 MHz

1000.00 - 10000.00 MHz Cable Measurement Frequency AF Limit Pass Raw Level Hgt Azt Margin Num Loss Pol MHz dBµV dB dBµV/m Туре cm Deg dBµV/m dB /Fail dB 1855.60 59.98 -13.41 49.06 Peak (NRB) Vertical 101 1 -----Pass 1 2.49 Max Peak Pass 2 2783.37 2.85 -11.33 49.68 Vertical 358 74.0 -24.3 58.16 112 2783.37 55.05 2.85 -11.33 46.57 Max Avg Vertical 112 358 54.0 -7.4 Pass 3 4 47.22 Max Peak 100 314 74.0 3711.33 54.95 3.20 -10.93 Vertical -26.8 Pass 5 3711.33 49.54 3.20 -10.93 41.81 Max Avg Vertical 100 314 54.0 -12.2 Pass 6 6494.63 55.69 4.02 -7.92 51.79 Peak (NRB) Vertical 101 1 ----Pass Test Notes: 3.3VDC,

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2.1.2. Digital Emissions (0.03 - 1 GHz)

FCC, Part 15 Subpart C §15.205/ §15.209 Industry Canada ICES-003 §6.2

Test Procedure

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. The anechoic chamber test set-up is identified in Section 6 Test Set-Up Photographs.

The EUT had two methods of powering on ac/dc converter and Power over Ethernet (POE). Both modes were tested for emissions below 1GHz.

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 $51.5dB_{\mu}V$; 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:

 $FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 dB\mu V/m$

Conversion between dB μ V/m (or dB μ V) and μ V/m (or μ V) are done as:

Level $(dB\mu V/m) = 20 * Log (level (\mu V/m))$

 $40 \text{ dB}\mu\text{V/m} = 100\mu\text{V/m}$ $48 \text{ dB}\mu\text{V/m} = 250\mu\text{V/m}$



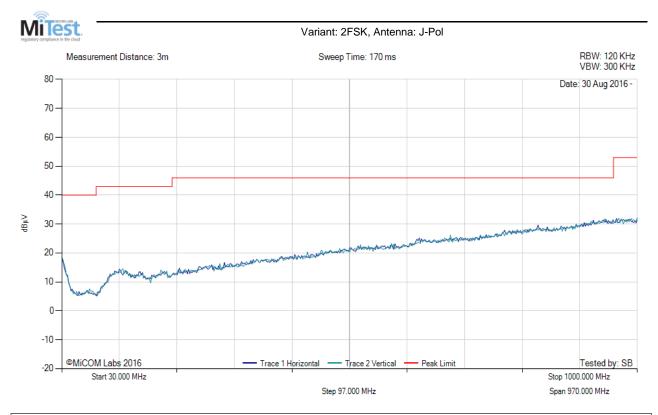
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Measurement Results: Radiated Emissions; 0.03 - 1 GHz

Equipment Configuration for Digital Emissions (0.03 - 1 GHz)

Antenna:	J-Pol	Variant:	2FSK
Antenna Gain (dBi):	3 dBi	Modulation:	FHSS
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	100
Channel Frequency (MHz):	915.20	Data Rate:	50 kbps
Power Setting:	3F	Tested By:	SB

Test Measurement Results



There are no emissions found within 6dB of the limit line.

Test Notes: 3.3VDC,

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