

FCC CERTIFICATION TEST REPORT

Applicant	:	Ruijie Networks Co., Ltd.
Address	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Equipment under Test	:	Wireless Bridge
Model No.	:	RG-EST450G
Trade Mark	:	<i>Ruijie Ruijie</i> REYEE REYEE REYEE by Ruijie
FCC ID	:	2AX5J-EST450G
Manufacturer	:	Ruijie Networks Co., Ltd.
Address	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Report No.	:	DDT-B24111211-2E02
Issue Date	:	Dec. 27, 2024
Issued By	:	Tianjin Dongdian Testing Service Co., Ltd.
Address	:	Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China. Tel: +86-22-58038033, E-mail: ddt@dgdtd.com, http://www.ddttest.com



REPORT

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Test Report Declare

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Equipment under Test	:	Wireless Bridge
Model No	:	RG-EST450G
Trade Mark	:	
Manufacturer	:	Ruijie Networks Co., Ltd.
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Test Standard Used: FCC Rules and Regulations Part 15 Subpart E

Test procedure used: ANSI C63.10:2020, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01

We Declare:

The equipment described above is tested by Tianjin Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-B24111211-2E02		
Date of Receipt:	Nov. 25, 2024	Date of Test:	Nov. 25, 2024 ~ Dec. 27, 2024

Prepared By:

Sunny Zhang

Sunny Zhang/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Dec. 27, 2024	

1. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Verdict
6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e)	Pass
Maximum Conducted Output Power	FCC 15.407 (a)	Pass
Power Spectral Density	FCC 15.407 (a)	Pass
Frequency Stability Measurement	FCC 15.407 (g)	Pass
Emissions in restricted frequency bands	FCC 15.407 (a) FCC 15.209 FCC 15.205	Pass
Band Edge Compliance	FCC 15.407 (a) FCC 15.209 FCC 15.205	Pass
Power Line Conducted Emission	FCC 15.207	Pass
Antenna requirement	FCC 15.203	Pass
Dynamic Frequency Selection	FCC 15.407 (h)	Pass ¹
"N/A" means Not Applicable. The part of "PASS¹" please reference DFS report.		

2. General Test Information

2.1. Description of EUT

EUT* Name	: Wireless Bridge
Model Number	: RG-EST450G
EUT function description	: Please reference user manual of this device
Power supply	: 24 V passive PoE power supply (A passive PoE adapter is delivered with the wireless bridge.) 12 V DC (solar panel)
Radio Technology	: IEEE 802.11a/n/ac
Operation frequency	: IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5670MHz, 5755MHz-5795MHz IEEE 802.11ac VHT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11ac VHT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5670MHz, 5755MHz-5795MHz IEEE 802.11ac VHT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5775MHz
Modulation	: 256QAM, 64QAM, 16QAM, QPSK, BPSK
Transmitter rate	: IEEE 802.11a mode: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n mode: MCS0~MCS15 IEEE 802.11ac mode: MCS0~MCS9
Antenna Type	: Directional Antenna: U-NII-1: Antenna1:13.36dBi, Antenna2: 13.52dBi U-NII-2A: Antenna1:13.54dBi, Antenna2: 13.76dBi U-NII-2C: Antenna1:13.32dBi, Antenna2: 14.11dBi U-NII-III: Antenna1:12.76dBi, Antenna2: 13.10dBi
TPC Function	: ☒ Support ☐ Not Support
SISO Mode	: ☒ 11a ☒ 11n ☒ 11ac ☐ 11ax ☐ 11be
MIMO Mode	: ☒ 11a ☒ 11n ☒ 11ac ☐ 11ax ☐ 11be

Note 1: EUT is the ab. of equipment under test.

Note 2: EUT Supports DFS detection.

Note 3: This EUT supports 2*2 MIMO in a/n/ac mode, and antenna gains are not equal, Directional gain was calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

So Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements, Array Gain = 0 dB ($N_{ANT} \leq 4$), For power spectral density measurements, $N_{ANT} = 2$, $NSS = 1$. So Directional gain = $G_{ANT} + \text{Array Gain} = 10 \log (N_{ANT} / NSS)$ dB

Ant1+Ant2	Directional gain			
	U-NII-1	U-NII-2A	U-NII-2C	U-NII-III
For power	13.52	13.76	14.11	13.10
For power spectral density	16.53	16.77	17.12	16.11

Note 4: For SISO & MMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal conducted power.

Channel information					
IEEE 802.11a		IEEE 802.11n (HT40)		IEEE 802.11ac (VHT80)	
IEEE 802.11n (HT20)		IEEE 802.11ac (VHT40)			
IEEE 802.11ac (VHT20)					
U-NII-1					
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/
U-NII-2A					
52	5260	54	5270	58	5290
56	5280	62	5310	/	/
60	5300	/	/	/	/
64	5320	/	/	/	/
U-NII-2C					
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	/	/
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	/	/	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/
136	5680	/	/	/	/
140	5700	/	/	/	/
U-NII-3					
149	5745	151	5755	155	5725
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description
SWITCHING POWER ADAPTOR	DONGGUAN SHILONG FUHUA ELECTRONIC CO., LTD.	UES15LCP-240060SPA	Input:100-240V~50/60Hz 0.5A, Output:24.0V=0.6A 14.4W

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	Lenovo Beijing Co. Ltd.	ThinkPad	FCC/CE	TP00067A

2.4. Block diagram of EUT configuration for test

24V passive PoE power supply

EUT

Run a special test software “QATool_Dbg.exe” provided by manufacturer to control EUT work in Continuous Tx mode, and select test channel, mode and data rate.

Tested mode, channel, and data rate information					
Mode	Setting Tx Power		Data Rate (Mbps) (See Note)	Channel	Frequency (MHz)
	Ant1	Ant2			
IEEE 802.11a	26	26	6	CH36	5180
	26	26	6	CH40	5200
	26	26	6	CH48	5240
	26	26	6	CH52	5260
	26	26	6	CH56	5280
	26	26	6	CH64	5320
	1F	1F	6	CH100	5500
	1F	1F	6	CH116	5580
	1F	1F	6	CH140	5700
	2C	2C	6	CH149	5745
	2C	2C	6	CH157	5785
	2C	2C	6	CH165	5825
IEEE 802.11n HT20	26	26	MCS 0	CH36	5180
	26	26	MCS 0	CH40	5200
	26	26	MCS 0	CH48	5240
	25	25	MCS 0	CH52	5260

	25	25	MCS 0	CH56	5280
	25	25	MCS 0	CH64	5320
	1F	1F	MCS 0	CH100	5500
	1F	1F	MCS 0	CH116	5580
	1F	1F	MCS 0	CH140	5700
	2C	2C	MCS 0	CH149	5745
	2C	2C	MCS 0	CH157	5785
	2C	2C	MCS 0	CH165	5825
IEEE 802.11n HT40	26	26	MCS 0	CH38	5190
	26	26	MCS 0	CH46	5230
	2C	2C	MCS 0	CH54	5270
	2C	2C	MCS 0	CH62	5310
	27	27	MCS 0	CH102	5510
	27	27	MCS 0	CH110	5550
	27	27	MCS 0	CH134	5670
	2C	2C	MCS 0	CH151	5755
IEEE 802.11ac VHT20	2C	2C	MCS 0	CH159	5795
	26	26	MCS 0	CH36	5180
	26	26	MCS 0	CH40	5200
	26	26	MCS 0	CH48	5240
	26	26	MCS 0	CH52	5260
	26	26	MCS 0	CH56	5280
	26	26	MCS 0	CH64	5320
	1F	1F	MCS 0	CH100	5500
	1F	1F	MCS 0	CH116	5580
	1F	1F	MCS 0	CH140	5700
	2C	2C	MCS 0	CH149	5745
	2C	2C	MCS 0	CH157	5785
	2C	2C	MCS 0	CH165	5825
IEEE 802.11ac VHT40	26	26	MCS 0	CH38	5190
	26	26	MCS 0	CH46	5230
	29	29	MCS 0	CH54	5270
	29	29	MCS 0	CH62	5310
	26	26	MCS 0	CH102	5510
	26	26	MCS 0	CH110	5550
	26	26	MCS 0	CH134	5670
	2D	2D	MCS 0	CH151	5755
	2D	2D	MCS 0	CH159	5795
IEEE 802.11ac VHT80	26	26	MCS 0	CH42	5210
	27	27	MCS 0	CH58	5290
	26	26	MCS 0	CH106	5530
	26	26	MCS 0	CH122	5610
	2B	2B	MCS 0	CH155	5775

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-28℃
Humidity range:	20-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	0.14%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.51 dB
Power Spectral Density	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	3.4×10^{-8} (Conducted method)
Conducted Spurious Emissions	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	0.52 dB ($8 \text{ GHz} \leq f < 22 \text{ GHz}$)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10^{-7}

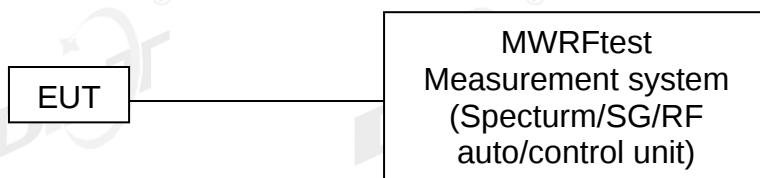
Temperature	±2°C
Humidity	±1%
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	2.72 dB (Antenna Polarize: V)
	2.72 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	2.74 dB (1 - 6 GHz)
	2.72 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.40 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (MWRFtest system)					
EXG Analog Signal Generator	Keysight	N5173B	MY53270968	2024/03/22	1 Year
MXG Vector Signal Generator	Keysight	N5182A	MY50143288	2024/02/21	1 Year
PXA Signal Analyzer	Keysight	N9030B	MY56320639	2024/04/01	1 Year
PXA Signal Analyzer	Keysight	N9010A	MY53281492	2024/02/21	1 Year
Wideband Radio Communication Tester	R&S	CMW500	158800	2024/02/21	1 Year
Power Sensor	KEYSIGHT	U2021XA	MY59150007	2024/02/21	1 Year
DC Power Supply	inSTEK	PSP-2010	EN122317	2024/02/03	1 Year
Test Software	MWRFtest	MTS8310	V03	N/A	N/A
Radiated Emission -10m EMI Chamber					
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2023/10/11	2 Year
Broad Band Horn Antenna	Com-Power	AHA-840	10100024	2023/10/16	2 Year
Active Loop Antenna	R&S	HFH2-Z2	100269	2024/08/25	2 Year
Amplifier	CMO-MW	DPA8 1000 1800	09211739	2024/02/18	1 Year
EMI Test Receiver	R&S	ESCI	101024	2024/02/18	1 Year
EMI Test Receiver	R&S	ESCI	101030	2024/02/18	1 Year
EMI Test Receiver	R&S	ESU26	100244	2024/02/18	1 Year
EXA Signal Analyzer	Keysight	N9010A	MY53281492	2024/02/21	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2024/10/10	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2024/10/10	2 Year
Amplifier	Sonoma	310N	300913	2024/02/18	1 Year
Amplifier	Sonoma	310N	334532	2024/02/18	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESCI	101395	2024/02/18	1 Year
LISN	R&S	ENV216	101122	2024/02/18	1 Year
Test software	TOYO	EP5/CE	V 5.4.40	N/A	N/A

4. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150 - 5250
	26 dB Bandwidth	5250 - 5350
	26 dB Bandwidth	5470 - 5725
	Minimum 500 kHz 6 dB Bandwidth	5725 - 5850

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: 1% to 5% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB and 6 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

Pass

Please find the detailed data in APPENDIXES-5G WiFi-FCC.

5. Duty Cycle

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limit

Just for Report.

5.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The center frequency of the middle hopping channel.

Resolution BW: 1 MHz.

Video BW: 3 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Max Hold.

Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

Duty cycle= Pulse's on time / Burst cycle

5.4. Test result

Please find the detailed data in APPENDIXES-5G WiFi-FCC.

6. Maximum Conducted Output Power

6.1. Block diagram of test setup

Same as section 4.1

6.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For an outdoor access point, the maximum conducted output power: 1W (30 dBm) The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).	5150-5250
	250 mW (24 dBm) or $11 + 10 \log_{10} B$	5250-5350
	250 mW (24 dBm) or $11 + 10 \log_{10} B$	5470-5725
	1 Watt (30 dBm)	5725-5850
Note 1: B is the 26 dB emission bandwidth in megahertz.		

6.3. Test procedure

- (1) Connect each EUT's antenna output to spectrum analyser by RF cable and attenuator
- (2) According ANSI C63.10:2020 clause 12.4.2.4 Method SA-2.
- (3) Add each antenna port's results to get the total output power of EUT.

6.4. Test result

Pass

Please find the detailed data in APPENDIXES-5G WiFi-FCC.

7. Power Spectral Density

7.1. Block diagram of test setup

Same with 4.1

7.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	17 dBm/MHz	5150-5250
	11 dBm/MHz	5250-5350
	11 dBm/MHz	5470 - 5725
	30 dBm/500 kHz	5725-5850

7.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyzer and use the following settings:

- (1) Connect each EUT's antenna output to spectrum analyser by RF cable and attenuator
- (2) According ANSI C63.10:2020 clause 12.6 and 12.4.2.4 Method SA-2.
- (3) Add each antenna port's results to get the total output power of EUT.

7.4. Test result

Pass

Please find the detailed data in APPENDIXES-5G WiFi-FCC.

8. Frequency Stability Measurement

8.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

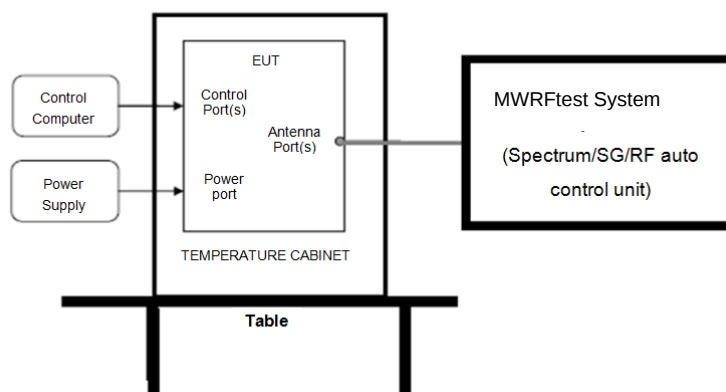
8.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

8.3. Test procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

8.4. Test setup



8.5. Test result

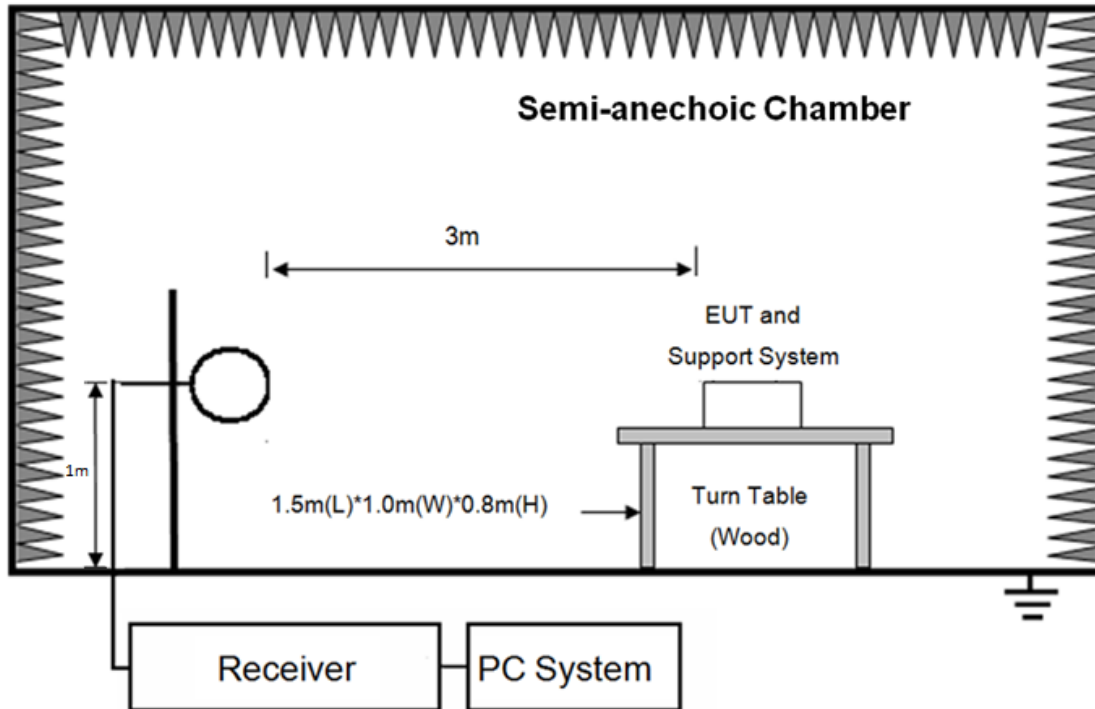
Pass

Please find the detailed data in APPENDIXES-5G WiFi-FCC.

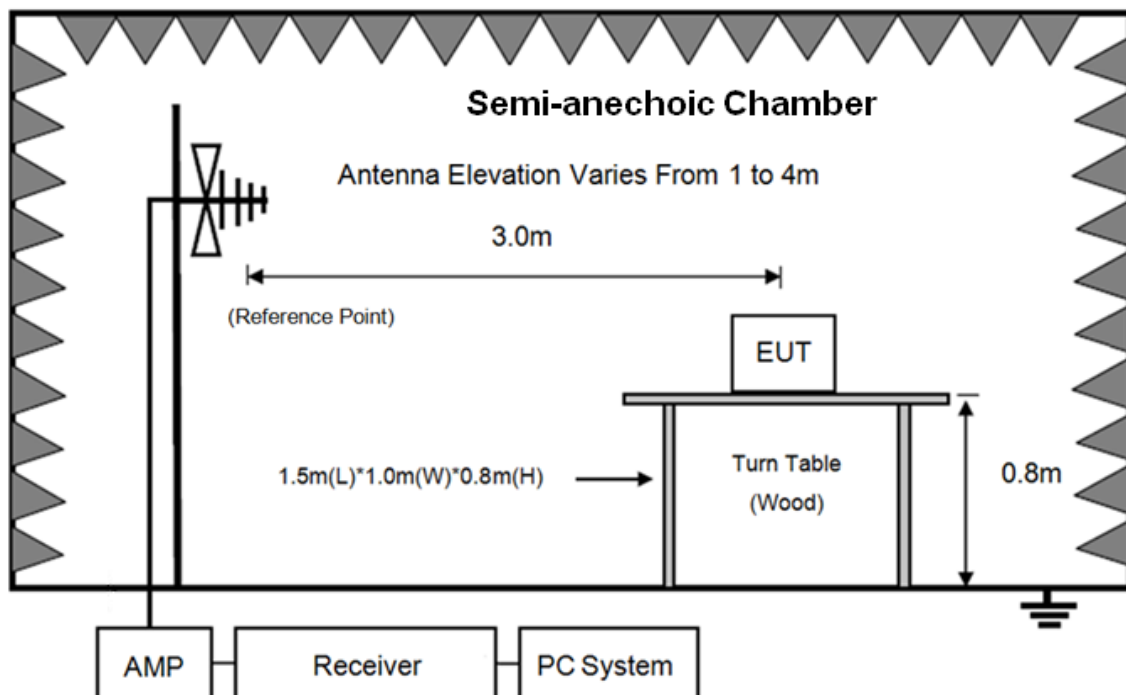
9. Emissions in restricted frequency bands

9.1. Block diagram of test setup

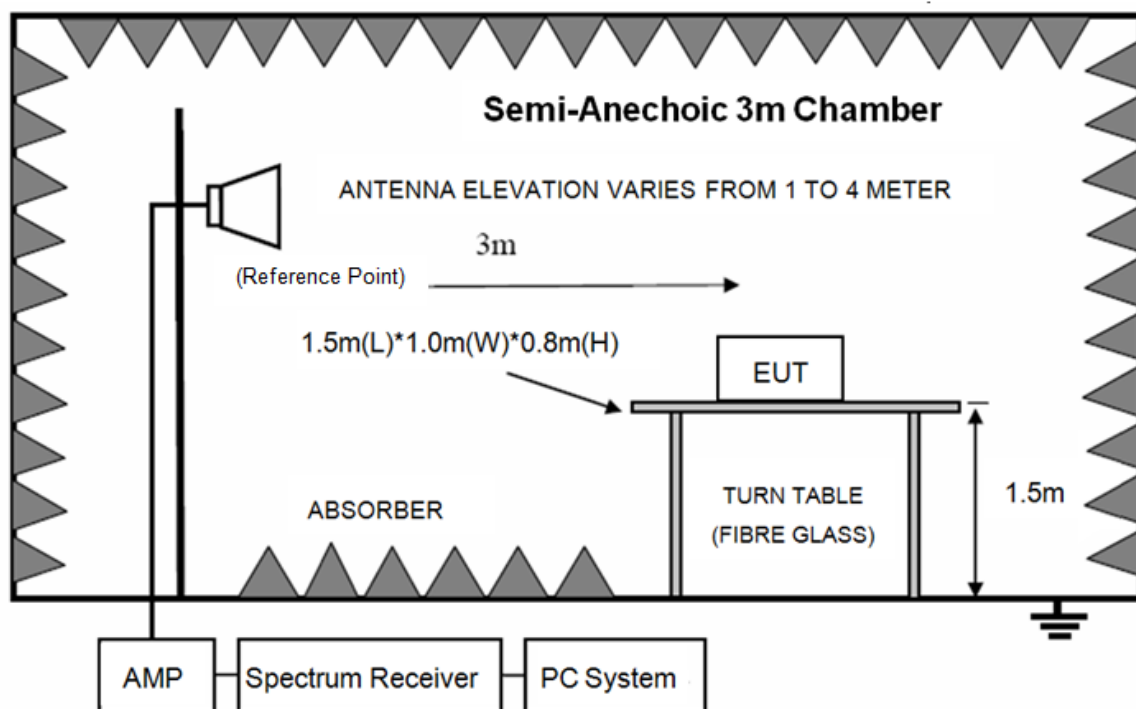
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

9.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 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	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

8.3.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

9.3. Test procedure

(1) EUT height should be 0.8 m for below 1 GHz at a semi - anechoic chamber while EUT height should be 1.5 m for above 1GHz at full chamber or semi - anechoic chamber ground with absorbers

(2) Setup EUT and assistant system according clause 2.3 and 8.2

(3) The antenna used as below table.

Test frequency range	Test antenna used	Test distance
9 kHz-30 MHz	Active Loop antenna	3 m
30 MHz-1 GHz	Trilog Broadband Antenna	3 m
1 GHz-18 GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3 m
18 GHz-40 GHz	Horn Antenna(18GHz-40GHz)	3 m

According ANSI C63.10:2020 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also

be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna was located 3 m, Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 40 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degrees, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 40 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2020 on Radiated Emission test.

(6) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(7) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

(8) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3MHz for Peak measure, the RBW is set at 1 MHz, VBW is set at 1/T (T is transmitting time in one period) Hz for AV value.

9.4. Test result

PASS. (See below detailed test result)

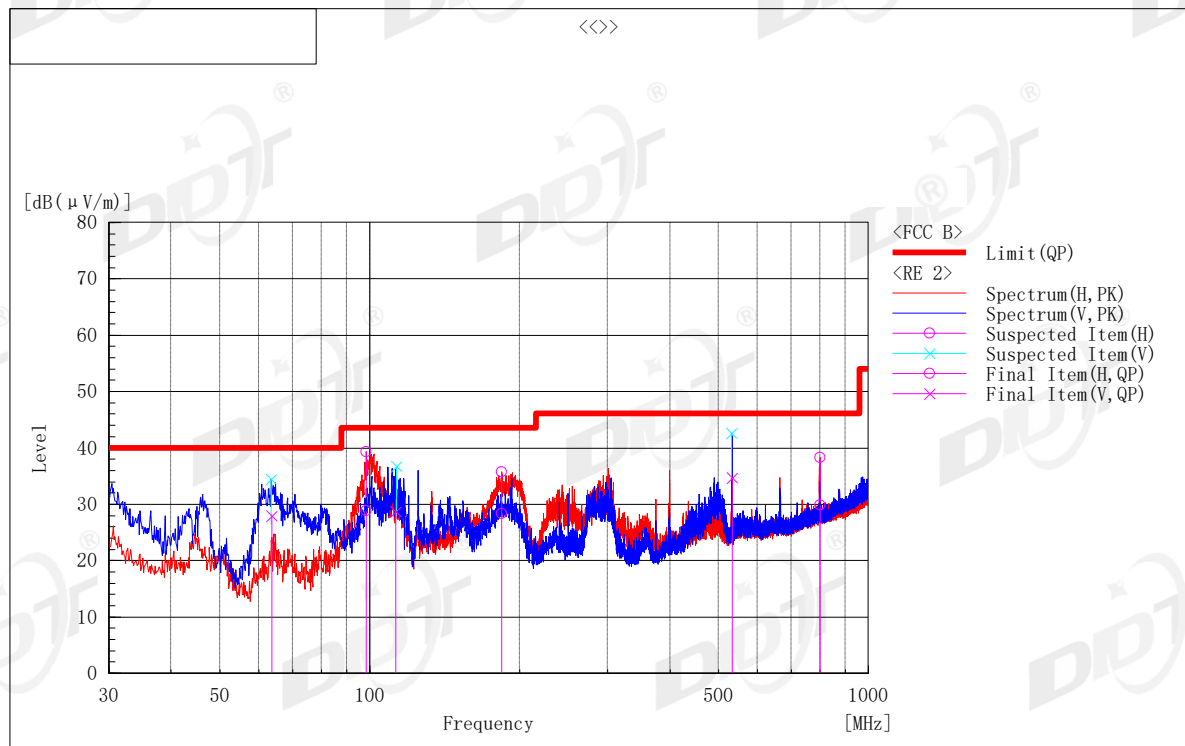
All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in transmission mode.

Note3: According exploratory test, the worst case was recorded in this report.

Radiated Emission test (30MHz- 1GHz)



Note) Receiving antenna polarization: Horizontal and/or Vertical

Test Distance: 3 m, Antenna Height: 1 m to 4 m

Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

Radiated Emission test (1GHz – 6.5GHz)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

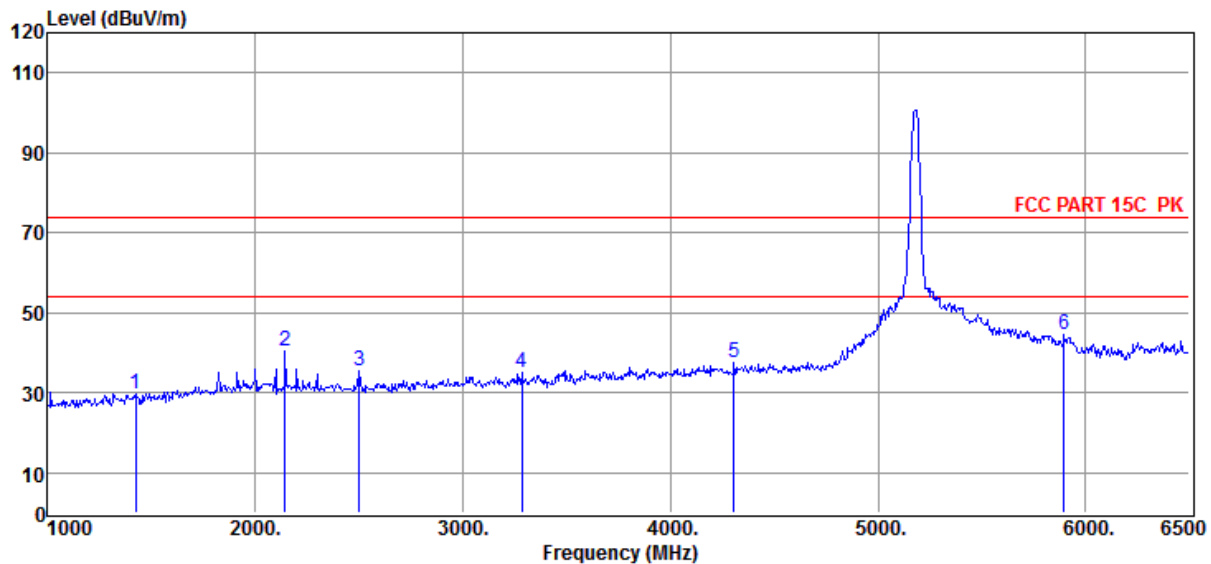
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5180MHz

Data: 189



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1423.50	45.29	25.19	3.02	29.77	74.00	-44.23	Peak	HORIZONTAL
2	2144.00	52.20	28.40	3.53	40.27	74.00	-33.73	Peak	HORIZONTAL
3	2501.50	47.40	27.90	3.79	35.34	74.00	-38.66	Peak	HORIZONTAL
4	3282.50	44.03	29.88	4.60	35.05	74.00	-38.95	Peak	HORIZONTAL
5	4305.50	43.13	31.78	5.40	37.36	74.00	-36.64	Peak	HORIZONTAL
6	5895.00	45.32	34.99	6.52	44.41	74.00	-29.59	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

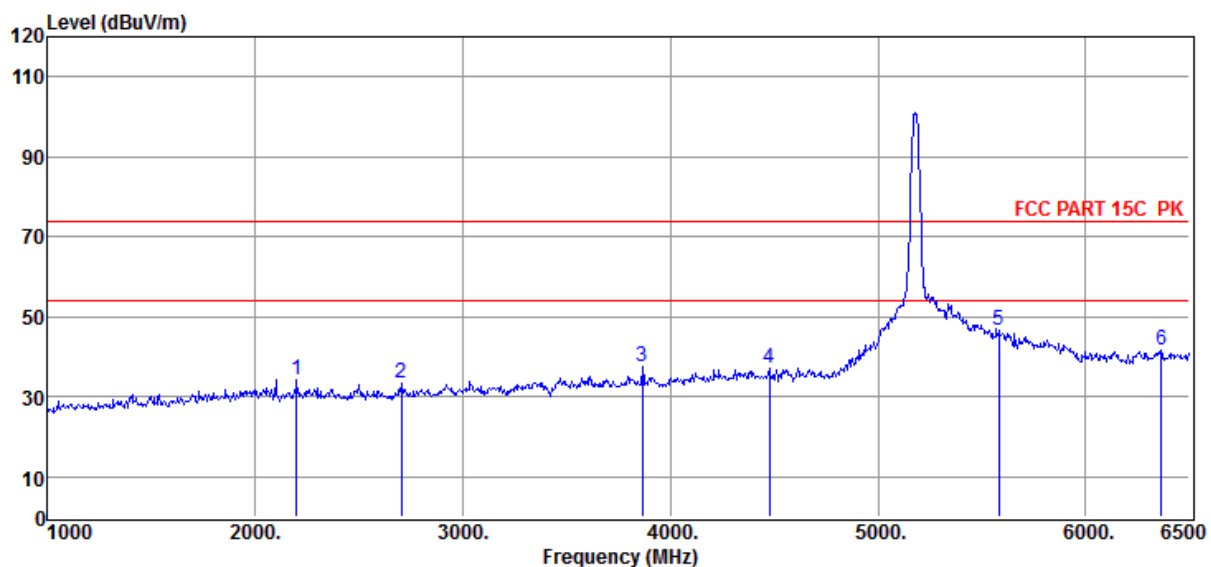
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5180MHz

Data: 190



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2199.00	45.89	28.32	3.82	34.19	74.00	-39.81	Peak	VERTICAL
2	2705.00	44.65	28.43	3.91	33.30	74.00	-40.70	Peak	VERTICAL
3	3865.50	44.56	31.28	4.80	37.47	74.00	-36.53	Peak	VERTICAL
4	4476.00	42.15	31.89	6.02	37.20	74.00	-36.80	Peak	VERTICAL
5	5581.50	48.67	34.04	6.37	46.60	74.00	-27.40	Peak	VERTICAL
6	6362.50	40.58	35.66	7.89	41.66	74.00	-32.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

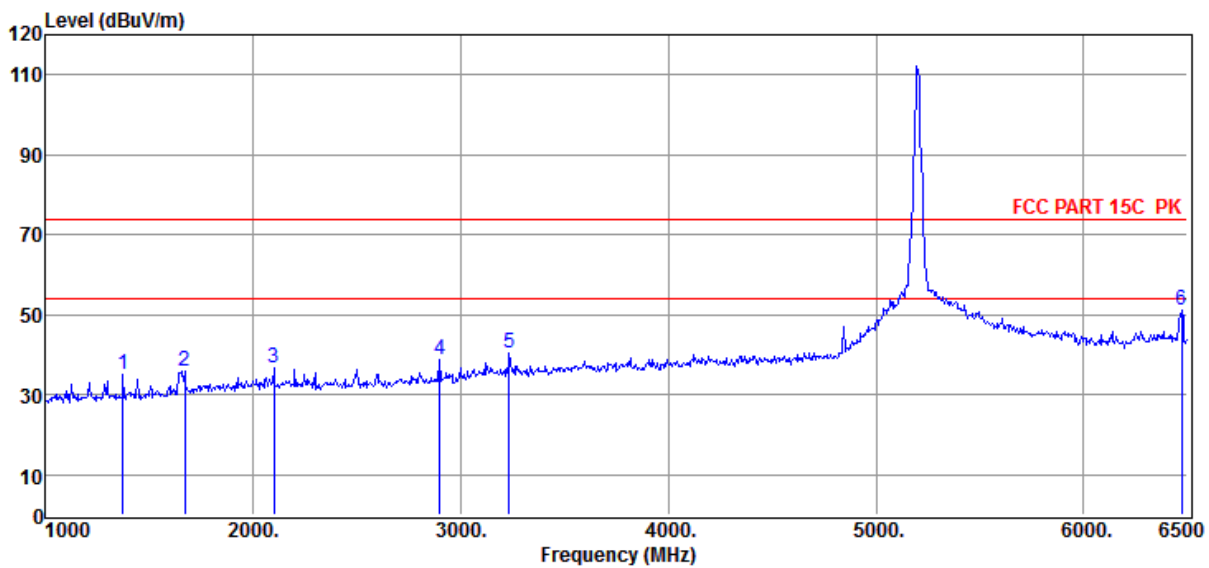
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5200MHz

Data: 191



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1374.00	50.40	25.27	3.10	35.06	74.00	-38.94	Peak	HORIZONTAL
2	1671.00	49.92	26.59	3.19	35.90	74.00	-38.10	Peak	HORIZONTAL
3	2100.00	48.55	28.32	3.72	36.72	74.00	-37.28	Peak	HORIZONTAL
4	2897.50	48.77	29.51	4.07	38.72	74.00	-35.28	Peak	HORIZONTAL
5	3233.00	48.92	30.41	4.53	40.38	74.00	-33.62	Peak	HORIZONTAL
6	6472.50	49.94	36.67	7.02	51.14	74.00	-22.86	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

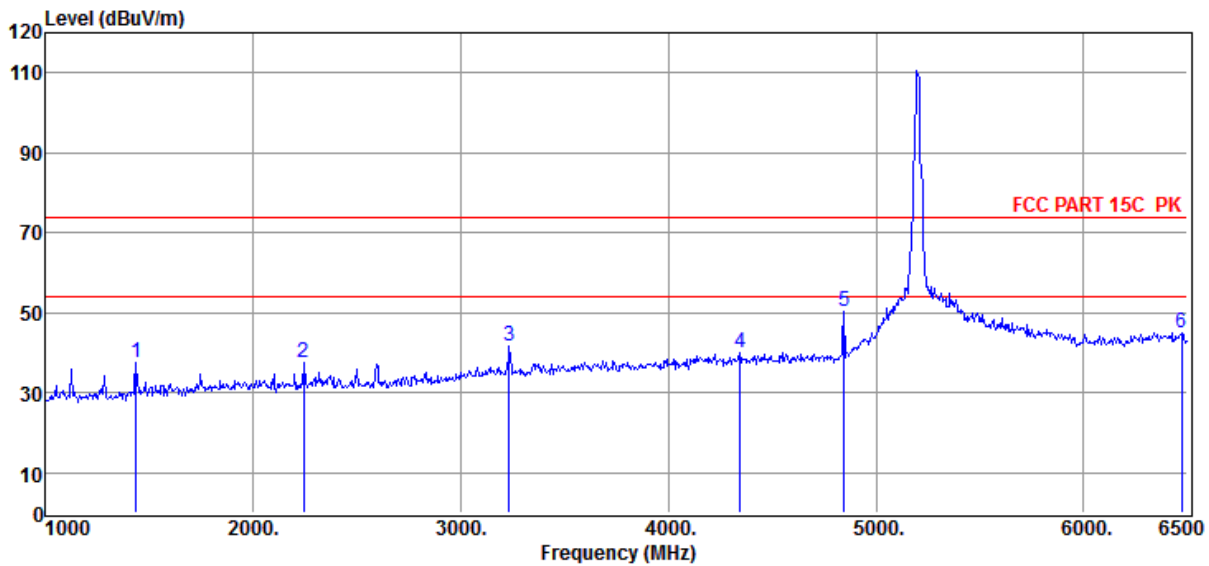
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5200MHz

Data: 192



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1434.50	52.93	25.48	3.02	37.70	74.00	-36.30	Peak	VERTICAL
2	2243.00	49.29	28.35	3.74	37.55	74.00	-36.45	Peak	VERTICAL
3	3233.00	50.15	30.41	4.53	41.61	74.00	-32.39	Peak	VERTICAL
4	4344.00	44.51	32.64	5.60	39.82	74.00	-34.18	Peak	VERTICAL
5	4844.50	54.01	33.32	5.58	50.23	74.00	-23.77	Peak	VERTICAL
6	6472.50	43.94	36.67	7.02	45.14	74.00	-28.86	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

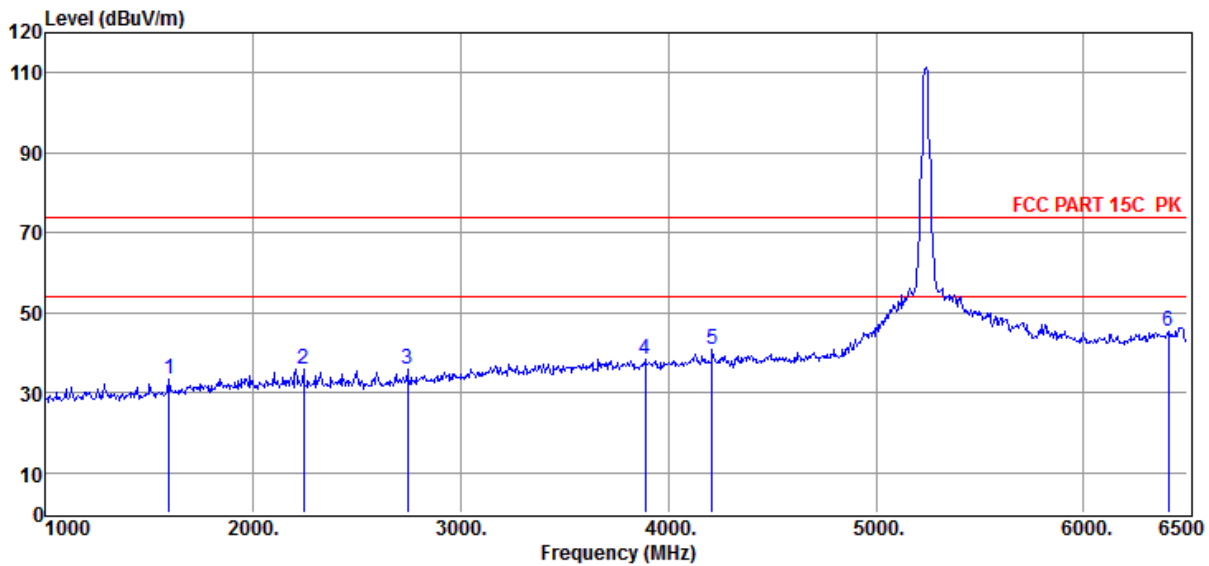
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5240MHz

Data: 193



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1594.00	47.98	26.19	3.09	33.48	74.00	-40.52	Peak	HORIZONTAL
2	2243.00	47.81	28.35	3.74	36.07	74.00	-37.93	Peak	HORIZONTAL
3	2743.50	46.50	29.08	3.95	35.85	74.00	-38.15	Peak	HORIZONTAL
4	3887.50	44.44	32.19	4.79	38.26	74.00	-35.74	Peak	HORIZONTAL
5	4212.00	45.41	32.58	5.71	40.71	74.00	-33.29	Peak	HORIZONTAL
6	6406.50	43.26	36.59	7.94	45.31	74.00	-28.69	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

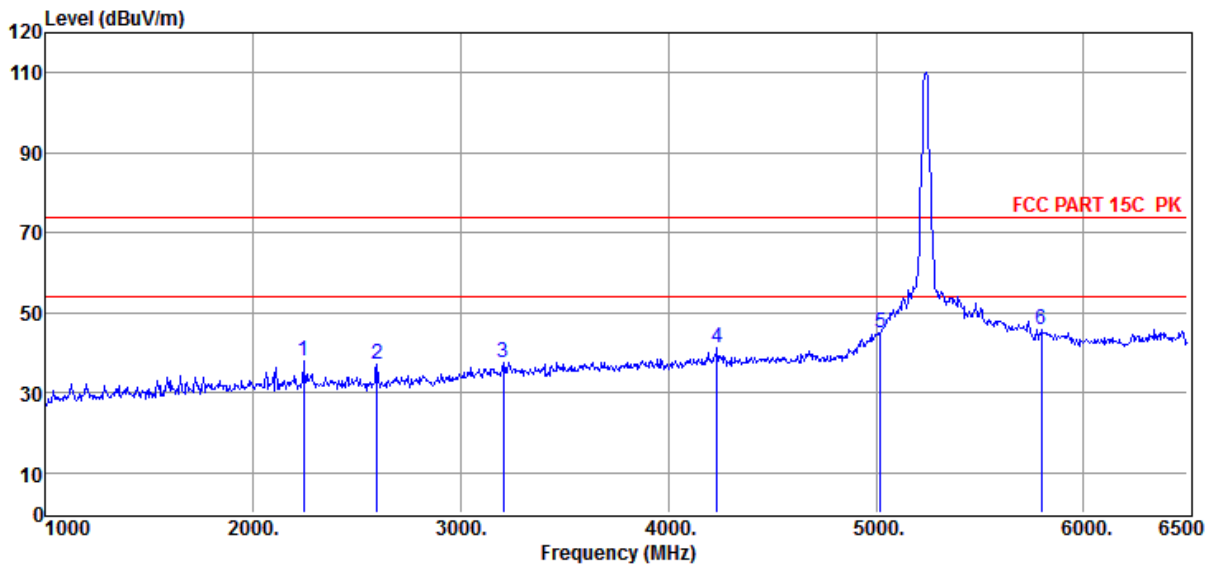
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5240MHz

Data: 194



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2243.00	49.73	28.35	3.74	37.99	74.00	-36.01	Peak	VERTICAL
2	2595.00	48.16	28.67	3.91	37.02	74.00	-36.98	Peak	VERTICAL
3	3205.50	46.27	30.33	4.50	37.60	74.00	-36.40	Peak	VERTICAL
4	4234.00	46.17	32.59	5.63	41.41	74.00	-32.59	Peak	VERTICAL
5	5020.50	47.97	33.64	5.98	44.99	74.00	-29.01	Peak	VERTICAL
6	5796.00	46.94	35.49	5.97	45.96	74.00	-28.04	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

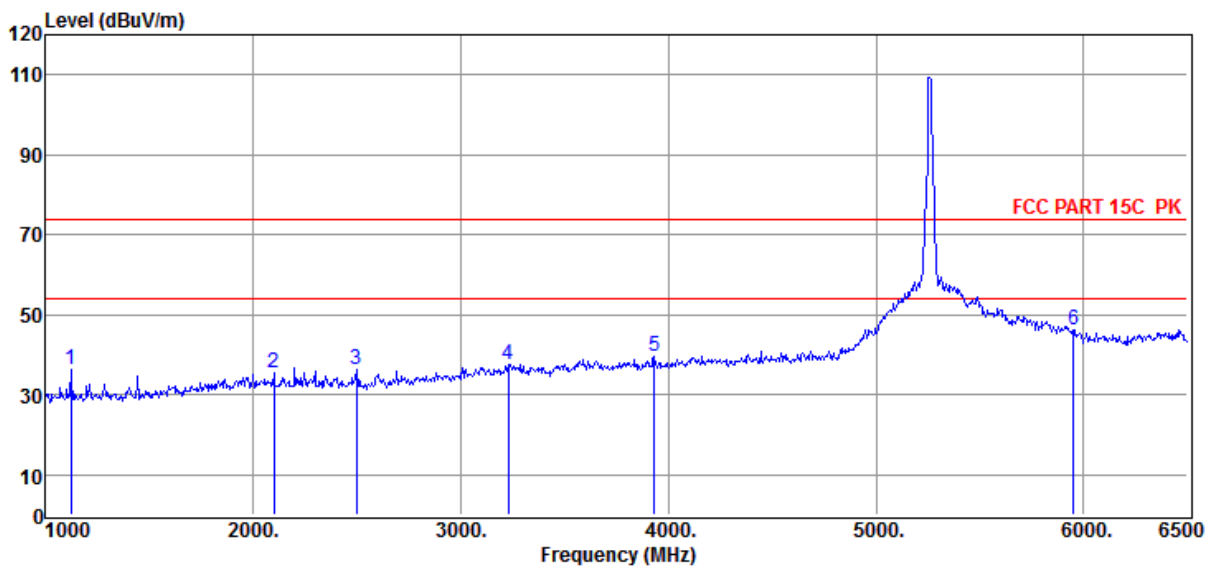
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5260MHz

Data: 195



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	53.07	24.41	2.62	36.46	74.00	-37.54	Peak	HORIZONTAL
2	2100.00	47.48	28.32	3.72	35.65	74.00	-38.35	Peak	HORIZONTAL
3	2496.00	47.96	28.40	3.79	36.40	74.00	-37.60	Peak	HORIZONTAL
4	3227.50	46.26	30.39	4.53	37.69	74.00	-36.31	Peak	HORIZONTAL
5	3931.50	45.76	32.31	4.81	39.75	74.00	-34.25	Peak	HORIZONTAL
6	5950.00	46.00	35.95	6.52	46.06	74.00	-27.94	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

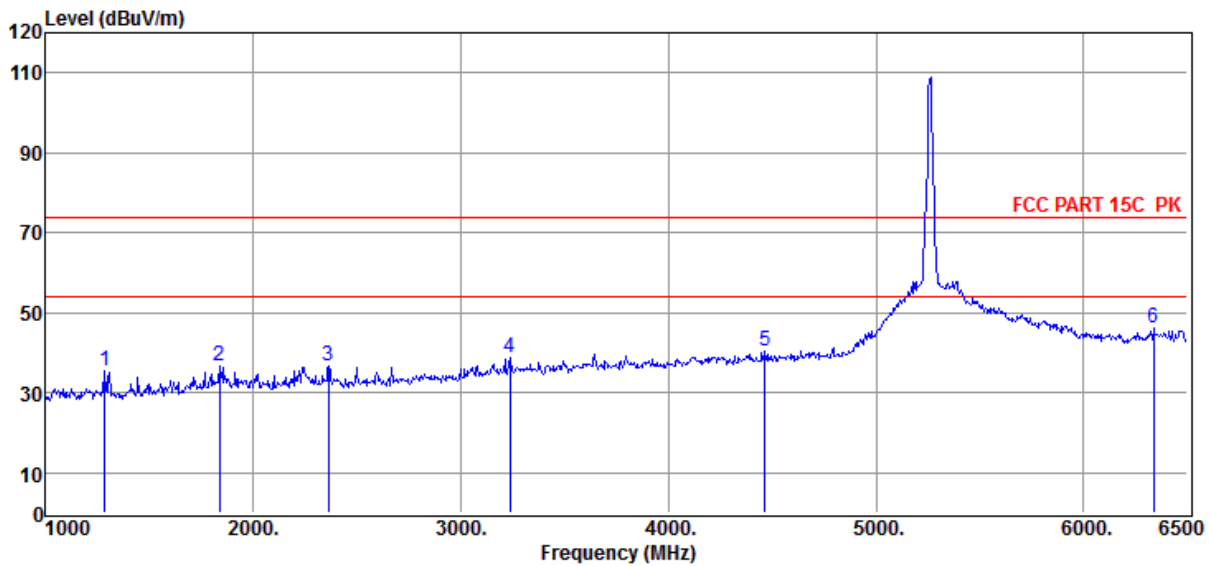
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5260MHz

Data: 196



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1286.00	51.13	24.97	2.96	35.37	74.00	-38.63	Peak	VERTICAL
2	1836.00	49.92	27.45	3.36	36.88	74.00	-37.12	Peak	VERTICAL
3	2364.00	48.31	28.37	3.93	36.82	74.00	-37.18	Peak	VERTICAL
4	3238.50	47.31	30.42	4.54	38.79	74.00	-35.21	Peak	VERTICAL
5	4465.00	44.79	32.69	6.00	40.61	74.00	-33.39	Peak	VERTICAL
6	6335.00	44.17	36.50	7.80	46.00	74.00	-28.00	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

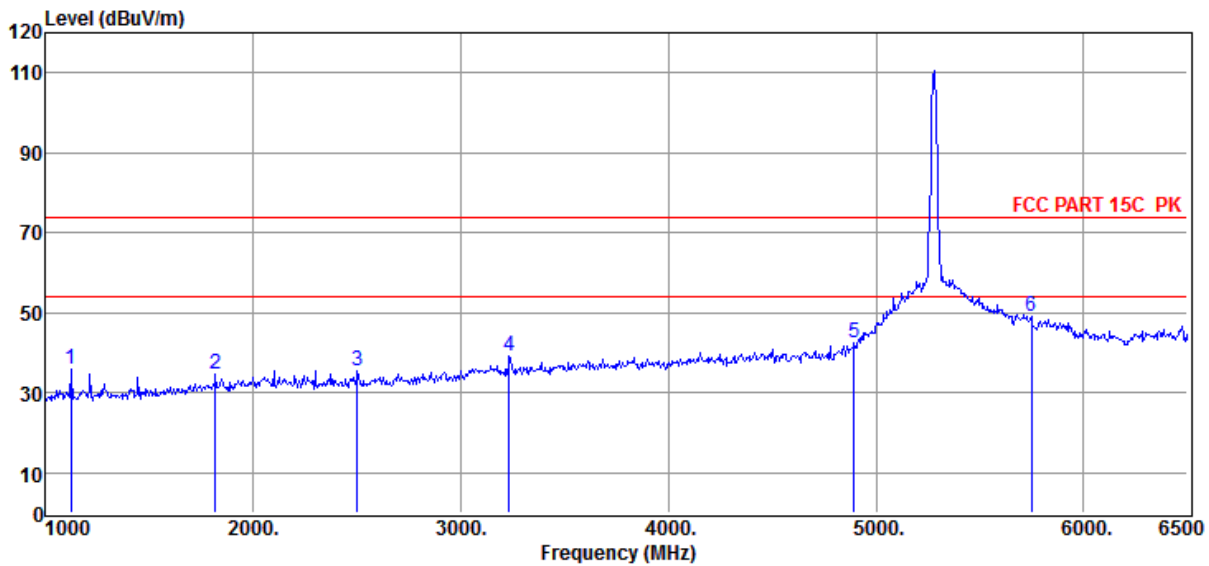
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5280MHz

Data: 197



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	52.42	24.41	2.62	35.81	74.00	-38.19	Peak	HORIZONTAL
2	1819.50	47.65	27.36	3.37	34.53	74.00	-39.47	Peak	HORIZONTAL
3	2501.50	47.09	28.40	3.79	35.53	74.00	-38.47	Peak	HORIZONTAL
4	3233.00	47.55	30.41	4.53	39.01	74.00	-34.99	Peak	HORIZONTAL
5	4894.00	46.11	33.41	5.66	42.53	74.00	-31.47	Peak	HORIZONTAL
6	5746.50	50.28	35.34	6.09	49.26	74.00	-24.74	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

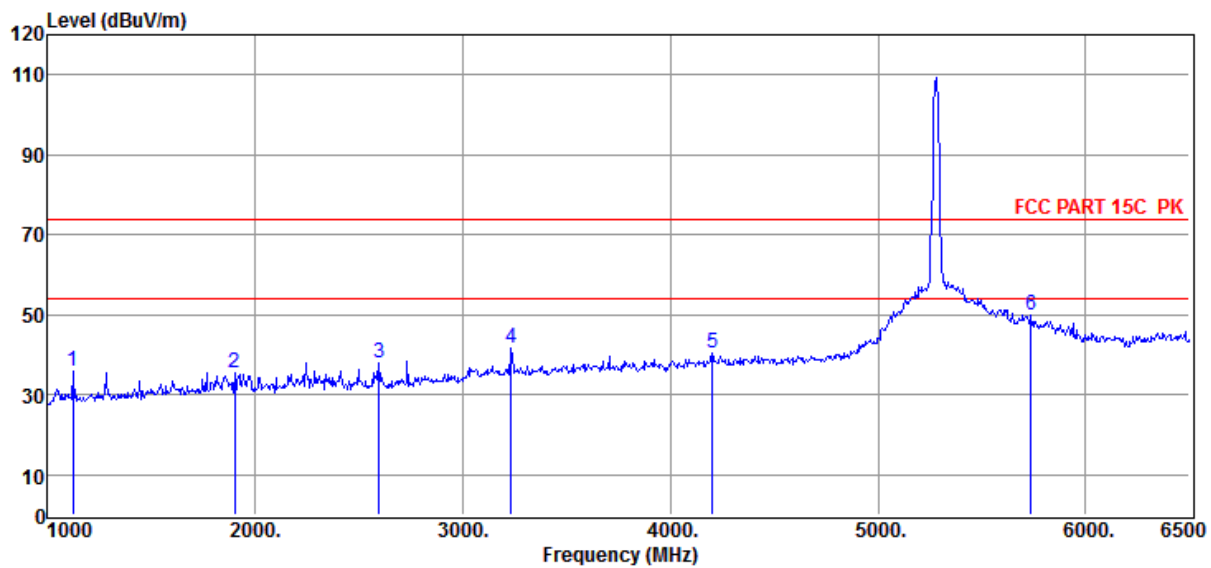
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5280MHz

Data: 198



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	52.33	24.41	2.62	35.72	74.00	-38.28	Peak	VERTICAL
2	1902.00	48.19	27.79	3.34	35.45	74.00	-38.55	Peak	VERTICAL
3	2595.00	49.27	28.67	3.91	38.13	74.00	-35.87	Peak	VERTICAL
4	3233.00	50.33	30.41	4.53	41.79	74.00	-32.21	Peak	VERTICAL
5	4201.00	44.93	32.58	5.76	40.27	74.00	-33.73	Peak	VERTICAL
6	5735.50	50.77	35.31	6.11	49.74	74.00	-24.26	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

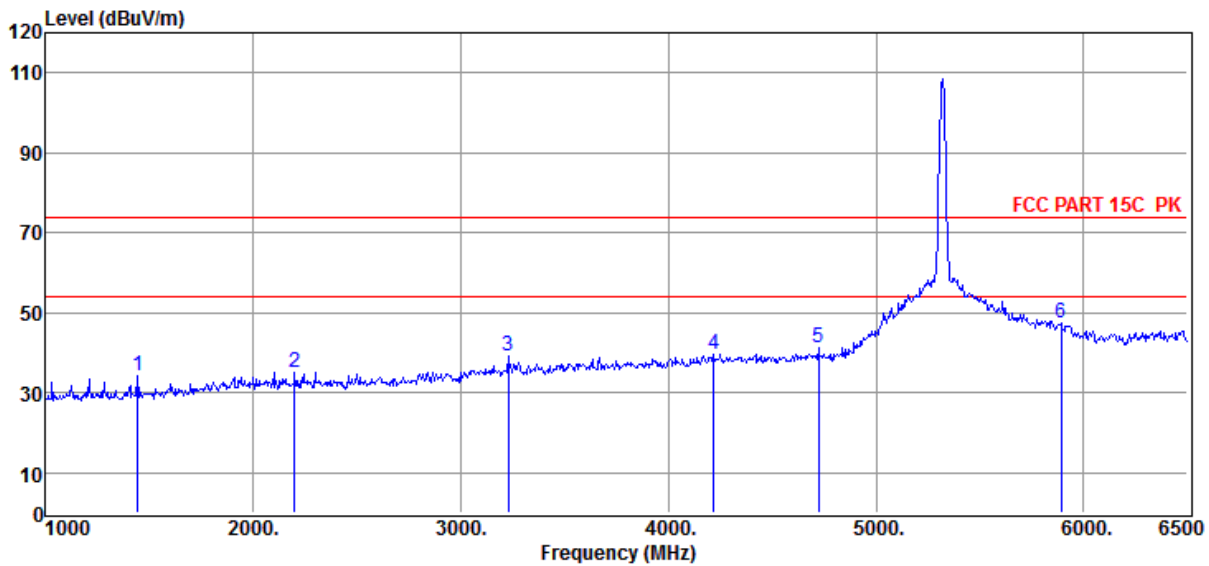
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5320MHz

Data: 199



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1445.50	49.55	25.51	3.03	34.36	74.00	-39.64	Peak	HORIZONTAL
2	2199.00	46.88	28.34	3.82	35.20	74.00	-38.80	Peak	HORIZONTAL
3	3227.50	47.58	30.39	4.53	39.01	74.00	-34.99	Peak	HORIZONTAL
4	4217.50	44.10	32.59	5.69	39.39	74.00	-34.61	Peak	HORIZONTAL
5	4723.50	44.80	33.10	5.90	41.06	74.00	-32.94	Peak	HORIZONTAL
6	5889.50	47.74	35.77	6.49	47.58	74.00	-26.42	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

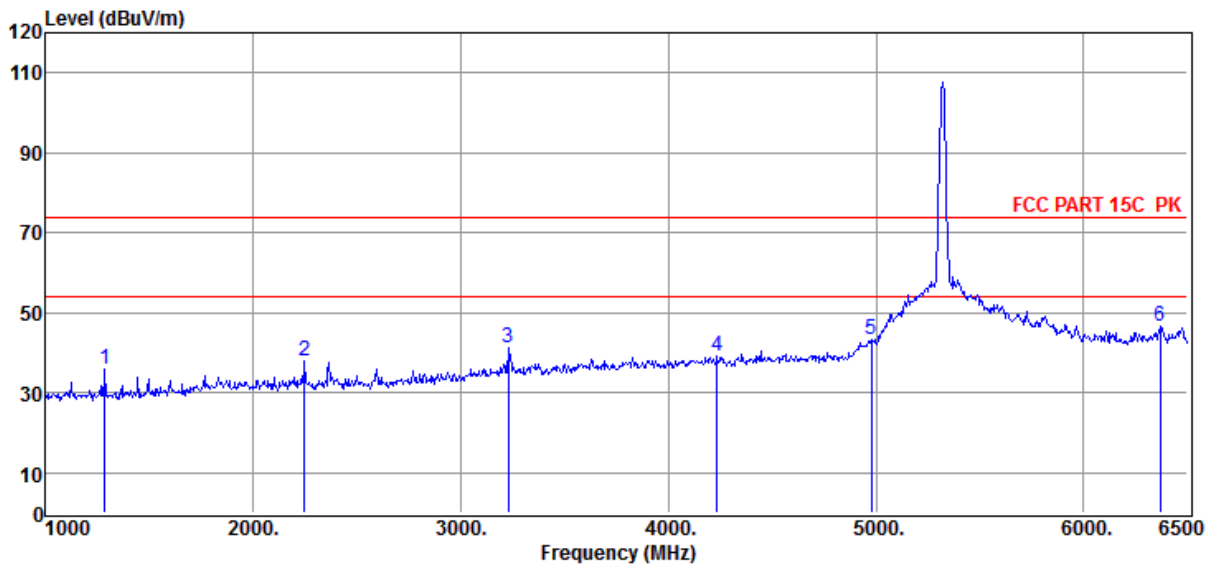
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5320MHz

Data: 200



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1286.00	51.51	24.97	2.96	35.75	74.00	-38.25	Peak	VERTICAL
2	2248.50	49.73	28.35	3.72	37.97	74.00	-36.03	Peak	VERTICAL
3	3227.50	49.89	30.39	4.53	41.32	74.00	-32.68	Peak	VERTICAL
4	4234.00	43.88	32.59	5.63	39.12	74.00	-34.88	Peak	VERTICAL
5	4976.50	46.29	33.56	5.98	43.22	74.00	-30.78	Peak	VERTICAL
6	6368.00	44.71	36.54	7.91	46.69	74.00	-27.31	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

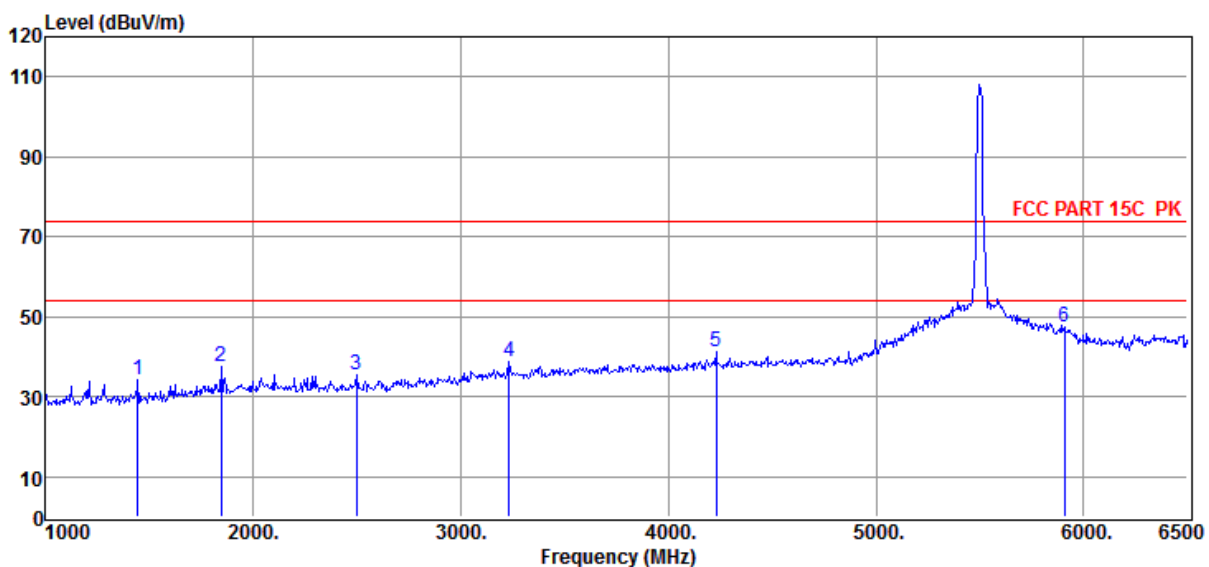
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5500MHz

Data: 201



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1445.50	49.50	25.51	3.03	34.31	74.00	-39.69	Peak	HORIZONTAL
2	1847.00	50.35	27.50	3.36	37.36	74.00	-36.64	Peak	HORIZONTAL
3	2496.00	47.03	28.40	3.79	35.47	74.00	-38.53	Peak	HORIZONTAL
4	3233.00	47.34	30.41	4.53	38.80	74.00	-35.20	Peak	HORIZONTAL
5	4228.50	45.92	32.59	5.65	41.17	74.00	-32.83	Peak	HORIZONTAL
6	5906.00	47.62	35.82	6.55	47.57	74.00	-26.43	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

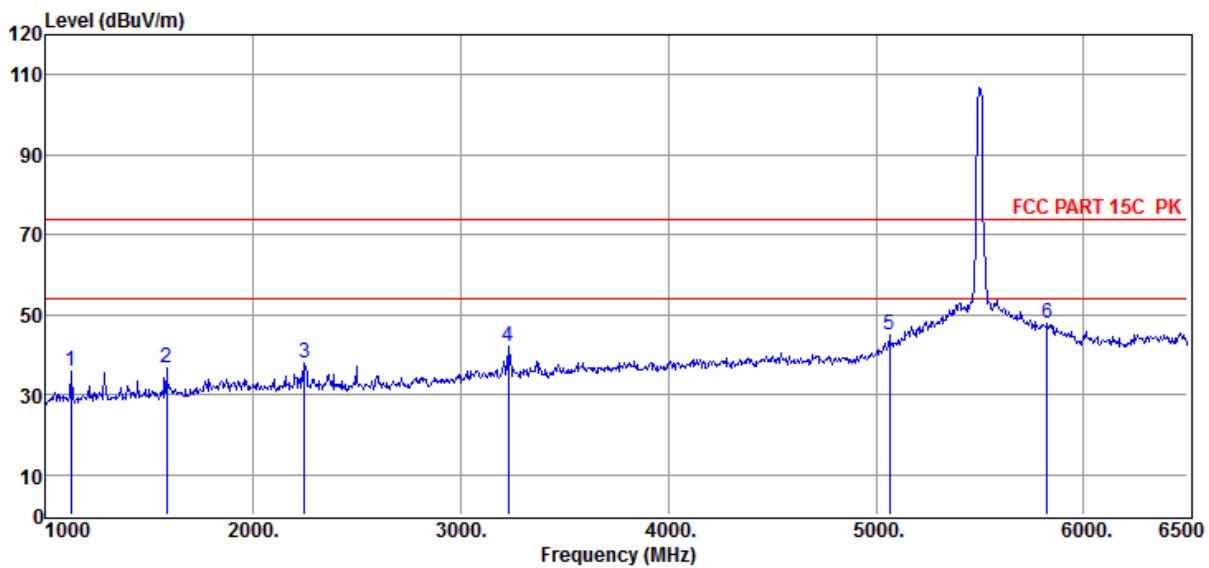
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5500MHz

Data: 202



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	52.30	24.41	2.62	35.69	74.00	-38.31	Peak	VERTICAL
2	1583.00	51.07	26.13	3.08	36.51	74.00	-37.49	Peak	VERTICAL
3	2248.50	49.69	28.35	3.72	37.93	74.00	-36.07	Peak	VERTICAL
4	3227.50	50.48	30.39	4.53	41.91	74.00	-32.09	Peak	VERTICAL
5	5064.50	48.16	33.73	5.79	45.09	74.00	-28.91	Peak	VERTICAL
6	5823.50	48.44	35.57	6.10	47.67	74.00	-26.33	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

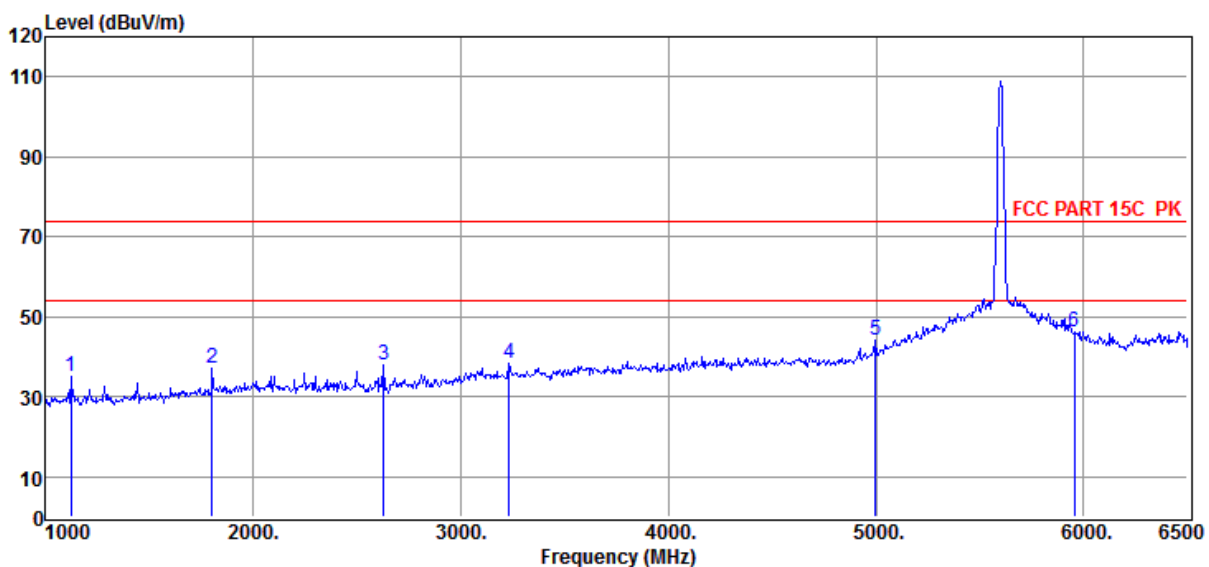
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5580MHz

Data: 203



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	51.66	24.41	2.62	35.05	74.00	-38.95	Peak	HORIZONTAL
2	1803.00	50.47	27.28	3.37	37.28	74.00	-36.72	Peak	HORIZONTAL
3	2628.00	48.88	28.76	3.94	37.87	74.00	-36.13	Peak	HORIZONTAL
4	3233.00	46.83	30.41	4.53	38.29	74.00	-35.71	Peak	HORIZONTAL
5	4998.50	47.23	33.60	6.06	44.29	74.00	-29.71	Peak	HORIZONTAL
6	5955.50	46.16	35.97	6.52	46.24	74.00	-27.76	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

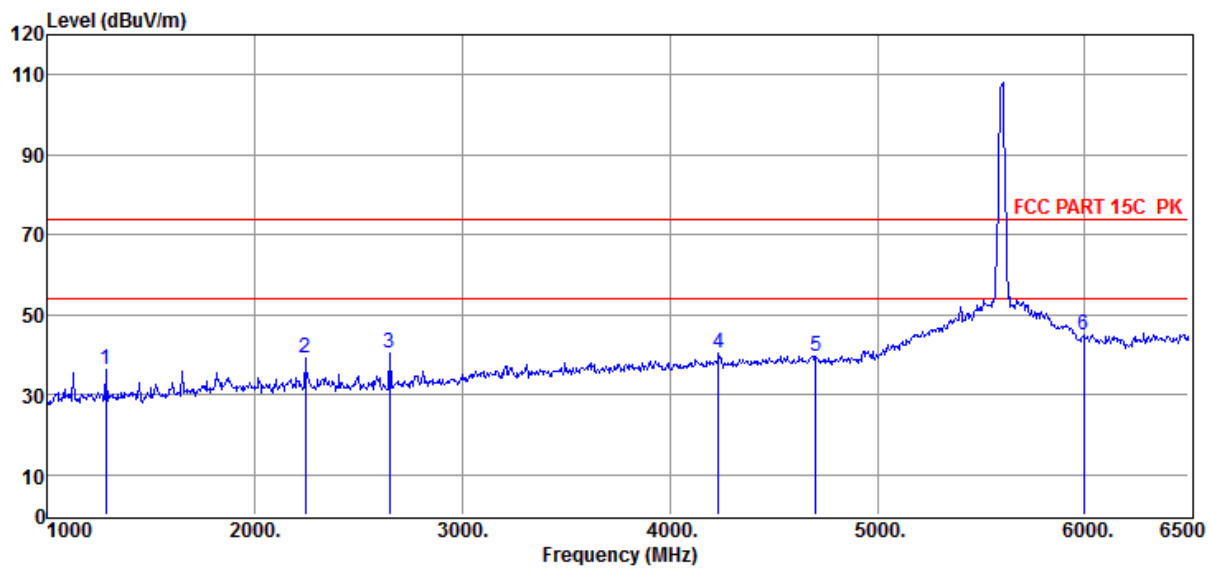
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5580MHz

Data: 204



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1280.50	52.13	24.95	2.97	36.37	74.00	-37.63	Peak	VERTICAL
2	2243.00	51.11	28.35	3.74	39.37	74.00	-34.63	Peak	VERTICAL
3	2650.00	51.49	28.82	3.96	40.57	74.00	-33.43	Peak	VERTICAL
4	4234.00	45.02	32.59	5.63	40.26	74.00	-33.74	Peak	VERTICAL
5	4701.50	43.27	33.06	6.01	39.59	74.00	-34.41	Peak	VERTICAL
6	5994.00	44.91	36.08	6.49	45.08	74.00	-28.92	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

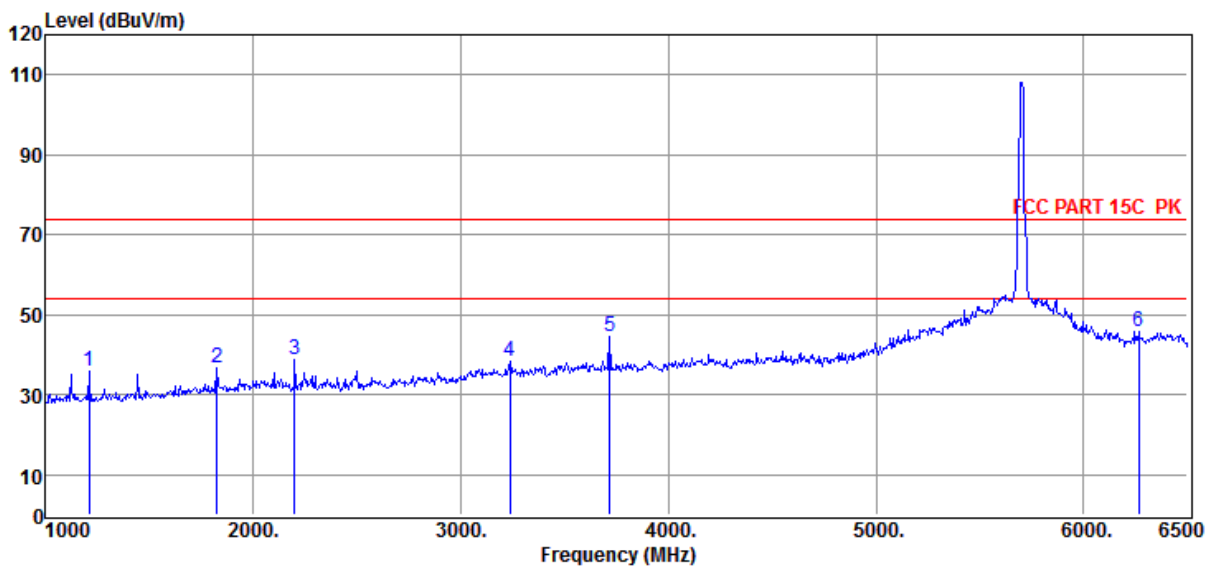
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5700MHz

Data: 205



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1209.00	52.09	24.71	2.92	36.06	74.00	-37.94	Peak	HORIZONTAL
2	1825.00	49.94	27.39	3.36	36.84	74.00	-37.16	Peak	HORIZONTAL
3	2199.00	50.61	28.34	3.82	38.93	74.00	-35.07	Peak	HORIZONTAL
4	3238.50	47.02	30.42	4.54	38.50	74.00	-35.50	Peak	HORIZONTAL
5	3717.00	51.65	31.71	4.58	44.70	74.00	-29.30	Peak	HORIZONTAL
6	6263.50	44.45	36.42	7.31	45.73	74.00	-28.27	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

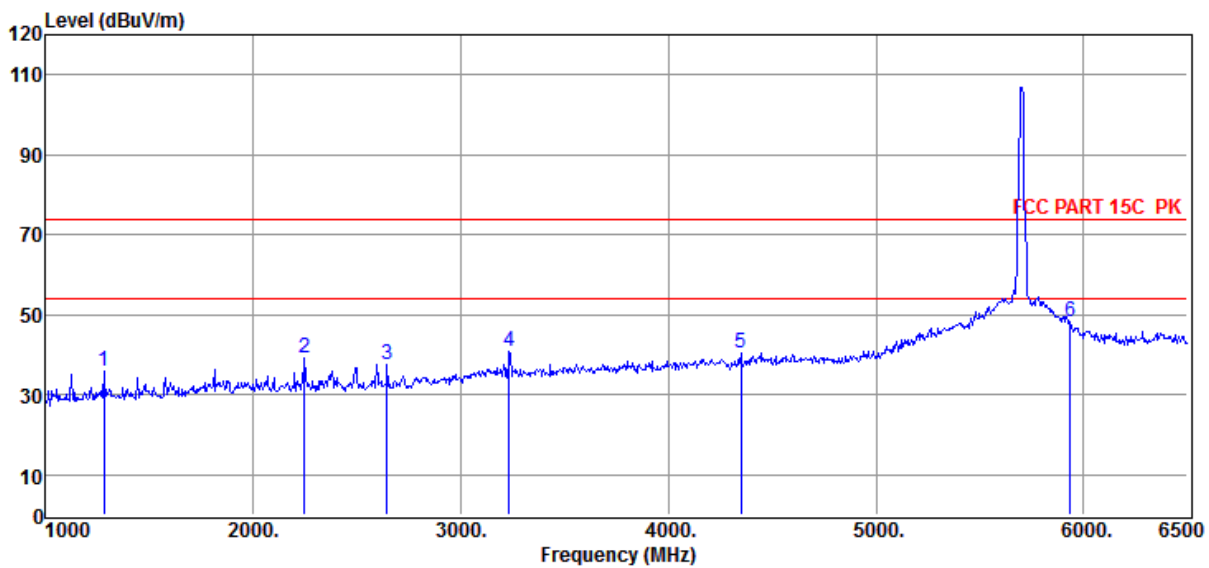
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5700MHz

Data: 206



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1280.50	51.73	24.95	2.97	35.97	74.00	-38.03	Peak	VERTICAL
2	2248.50	50.85	28.35	3.72	39.09	74.00	-34.91	Peak	VERTICAL
3	2644.50	48.65	28.80	3.95	37.69	74.00	-36.31	Peak	VERTICAL
4	3233.00	49.25	30.41	4.53	40.71	74.00	-33.29	Peak	VERTICAL
5	4349.50	44.95	32.64	5.63	40.29	74.00	-33.71	Peak	VERTICAL
6	5933.50	48.16	35.90	6.53	48.18	74.00	-25.82	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

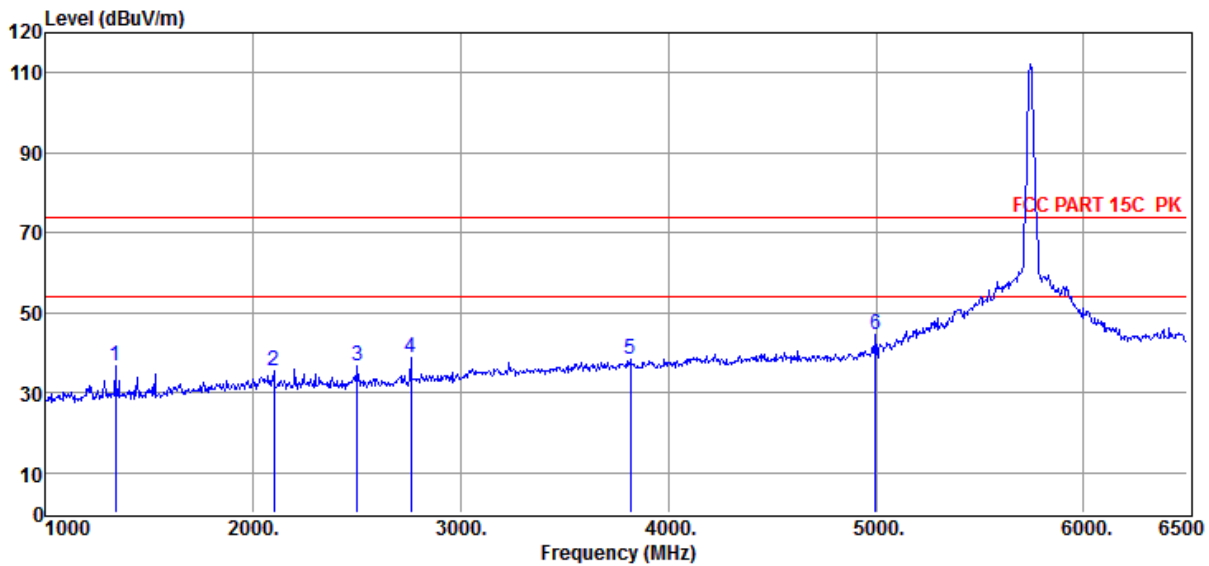
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5745MHz

Data: 207



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1335.50	52.09	25.14	3.12	36.65	74.00	-37.35	Peak	HORIZONTAL
2	2100.00	47.41	28.32	3.72	35.58	74.00	-38.42	Peak	HORIZONTAL
3	2501.50	48.25	28.40	3.79	36.69	74.00	-37.31	Peak	HORIZONTAL
4	2760.00	49.31	29.13	3.99	38.76	74.00	-35.24	Peak	HORIZONTAL
5	3816.00	44.77	31.98	4.84	38.40	74.00	-35.60	Peak	HORIZONTAL
6	4998.50	47.49	33.60	6.06	44.55	74.00	-29.45	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

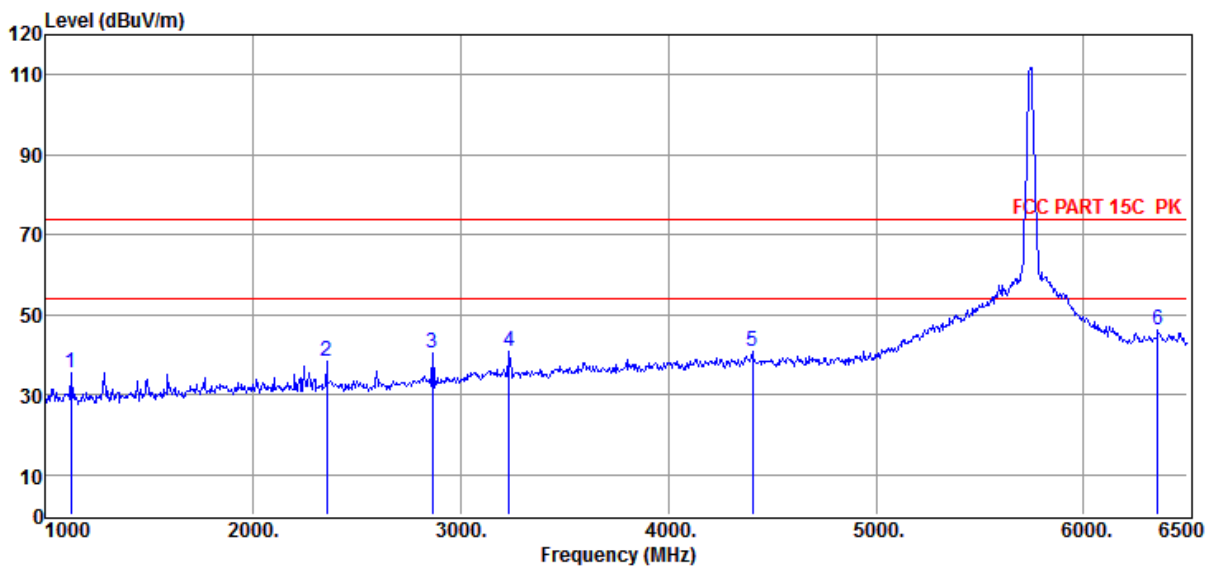
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5745MHz

Data: 208



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	51.92	24.41	2.62	35.31	74.00	-38.69	Peak	VERTICAL
2	2353.00	49.74	28.37	3.95	38.27	74.00	-35.73	Peak	VERTICAL
3	2864.50	50.54	29.42	4.07	40.39	74.00	-33.61	Peak	VERTICAL
4	3233.00	49.38	30.41	4.53	40.84	74.00	-33.16	Peak	VERTICAL
5	4404.50	45.06	32.66	5.90	40.72	74.00	-33.28	Peak	VERTICAL
6	6357.00	44.11	36.53	7.88	46.05	74.00	-27.95	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

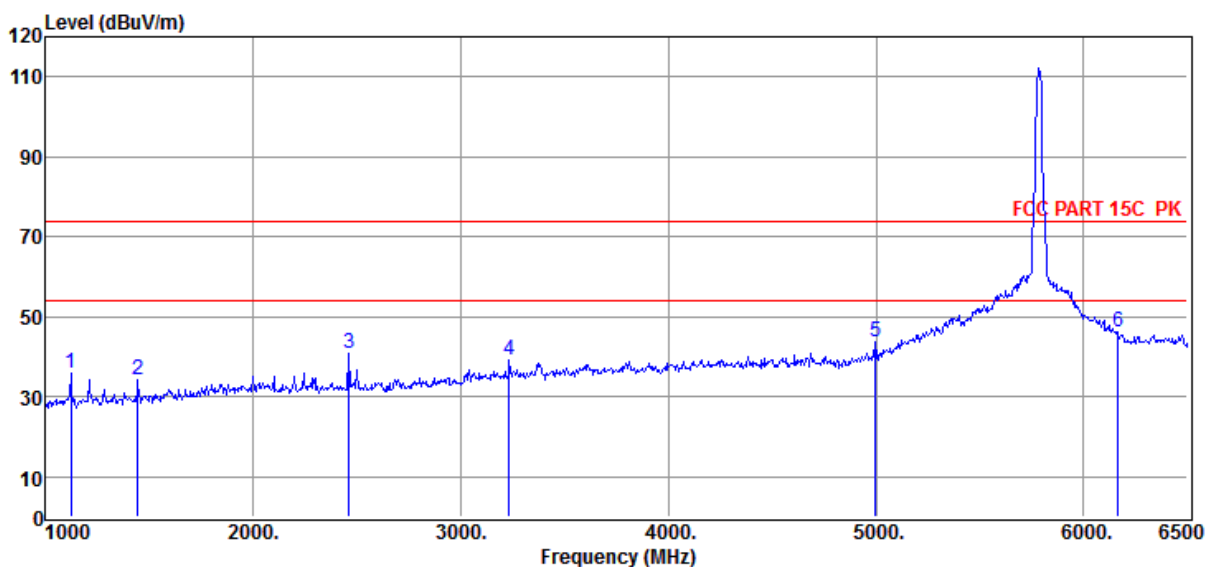
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5785MHz

Data: 209



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	52.51	24.41	2.62	35.90	74.00	-38.10	Peak	HORIZONTAL
2	1445.50	49.47	25.51	3.03	34.28	74.00	-39.72	Peak	HORIZONTAL
3	2463.00	52.27	28.39	3.80	40.70	74.00	-33.30	Peak	HORIZONTAL
4	3233.00	47.82	30.41	4.53	39.28	74.00	-34.72	Peak	HORIZONTAL
5	4998.50	46.74	33.60	6.06	43.80	74.00	-30.20	Peak	HORIZONTAL
6	6164.50	45.46	36.30	6.79	46.12	74.00	-27.88	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

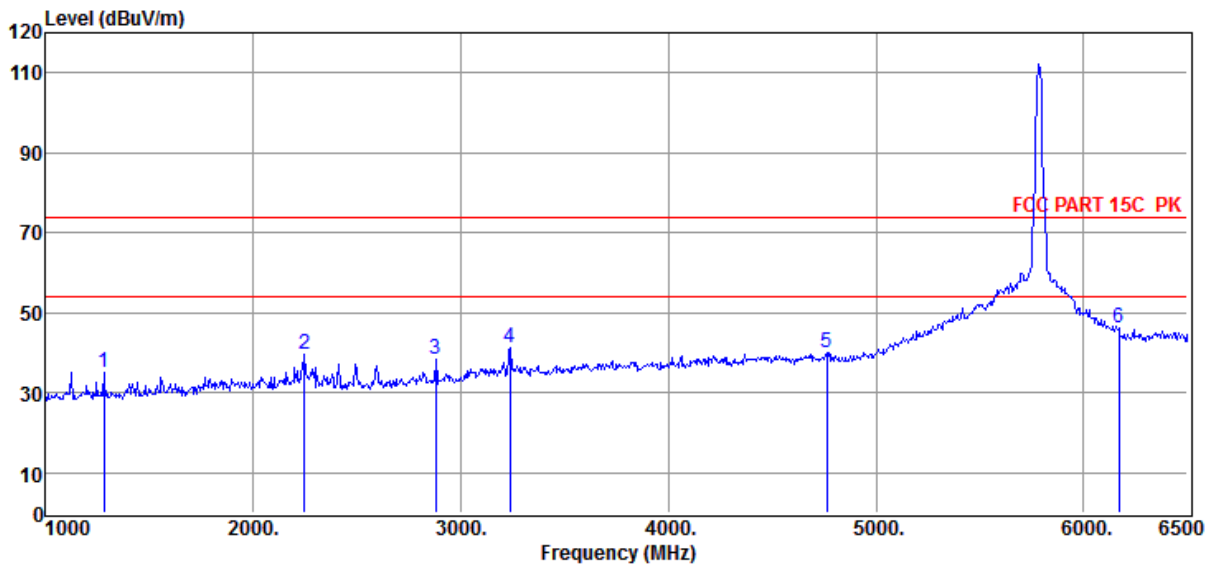
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5785MHz

Data: 210



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1280.50	50.97	24.95	2.97	35.21	74.00	-38.79	Peak	VERTICAL
2	2248.50	51.38	28.35	3.72	39.62	74.00	-34.38	Peak	VERTICAL
3	2881.00	48.48	29.47	4.07	38.38	74.00	-35.62	Peak	VERTICAL
4	3238.50	49.59	30.42	4.54	41.07	74.00	-32.93	Peak	VERTICAL
5	4762.00	43.79	33.17	5.70	39.94	74.00	-34.06	Peak	VERTICAL
6	6170.00	45.55	36.30	6.78	46.20	74.00	-27.80	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

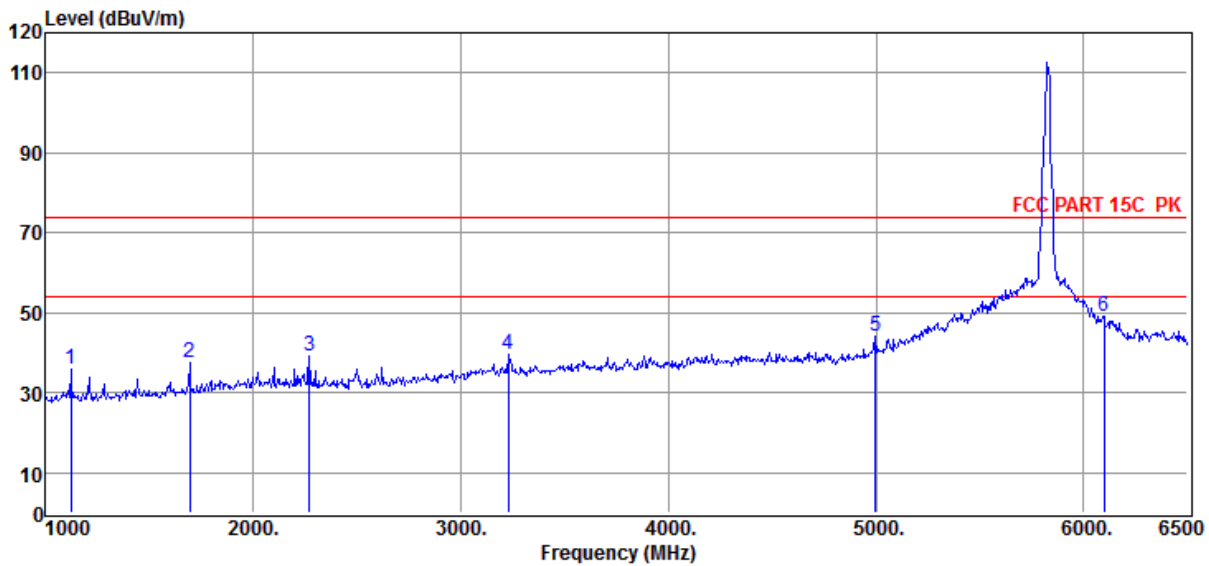
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5825MHz

Data: 211



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1121.00	52.54	24.41	2.62	35.93	74.00	-38.07	Peak	HORIZONTAL
2	1693.00	51.63	26.70	3.19	37.71	74.00	-36.29	Peak	HORIZONTAL
3	2270.50	51.17	28.35	3.68	39.38	74.00	-34.62	Peak	HORIZONTAL
4	3227.50	48.13	30.39	4.53	39.56	74.00	-34.44	Peak	HORIZONTAL
5	4998.50	46.94	33.60	6.06	44.00	74.00	-30.00	Peak	HORIZONTAL
6	6098.50	48.24	36.22	6.97	49.01	74.00	-24.99	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-10-2024

Tested By : Sunny

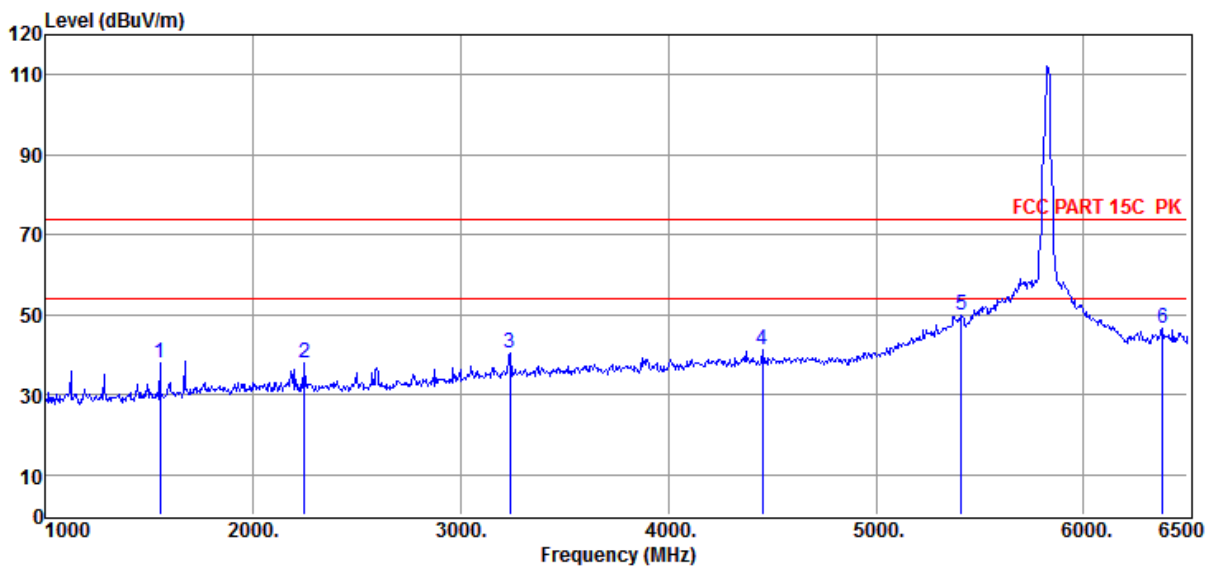
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5825MHz

Data: 212



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1550.00	52.80	25.96	3.06	38.06	74.00	-35.94	Peak	VERTICAL
2	2248.50	49.53	28.35	3.72	37.77	74.00	-36.23	Peak	VERTICAL
3	3238.50	48.86	30.42	4.54	40.34	74.00	-33.66	Peak	VERTICAL
4	4454.00	45.29	32.68	5.98	41.08	74.00	-32.92	Peak	VERTICAL
5	5411.00	51.19	34.42	6.69	49.78	74.00	-24.22	Peak	VERTICAL
6	6379.00	44.45	36.55	7.95	46.47	74.00	-27.53	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission test (6.5GHz – 18GHz)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

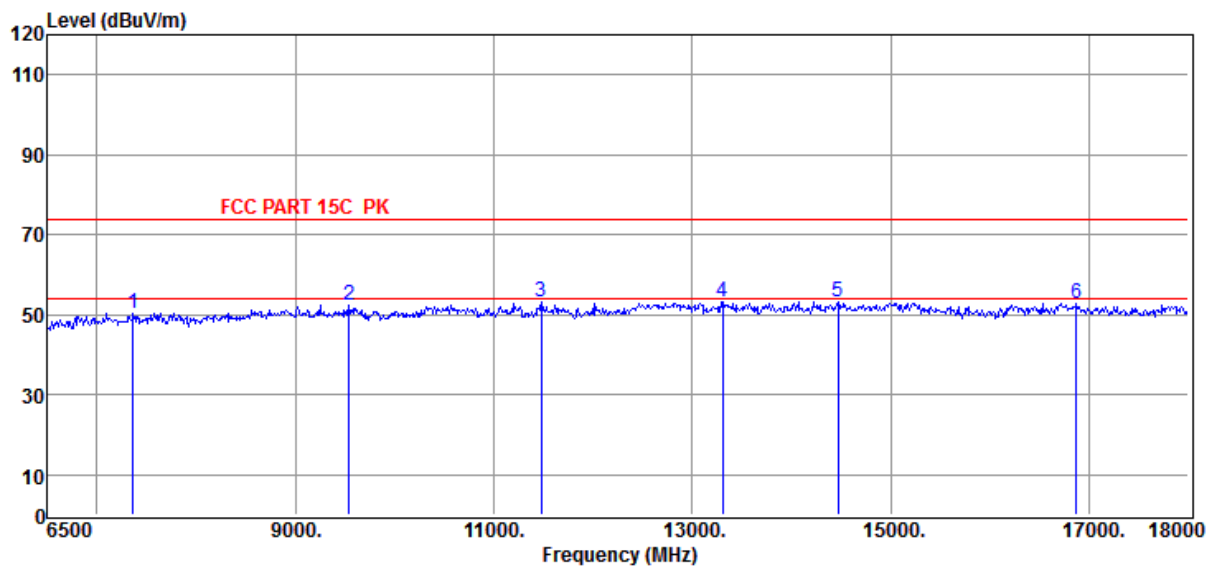
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5180MHz

Data: 165



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7362.50	40.99	37.89	14.24	50.38	74.00	-23.62	Peak	HORIZONTAL
2	9536.00	41.08	38.52	15.62	52.37	74.00	-21.63	Peak	HORIZONTAL
3	11479.50	39.97	38.80	17.07	53.09	74.00	-20.91	Peak	HORIZONTAL
4	13308.00	38.16	40.81	17.26	53.20	74.00	-20.80	Peak	HORIZONTAL
5	14469.50	39.35	40.14	16.81	53.34	74.00	-20.66	Peak	HORIZONTAL
6	16873.00	34.10	41.99	19.30	52.79	74.00	-21.21	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

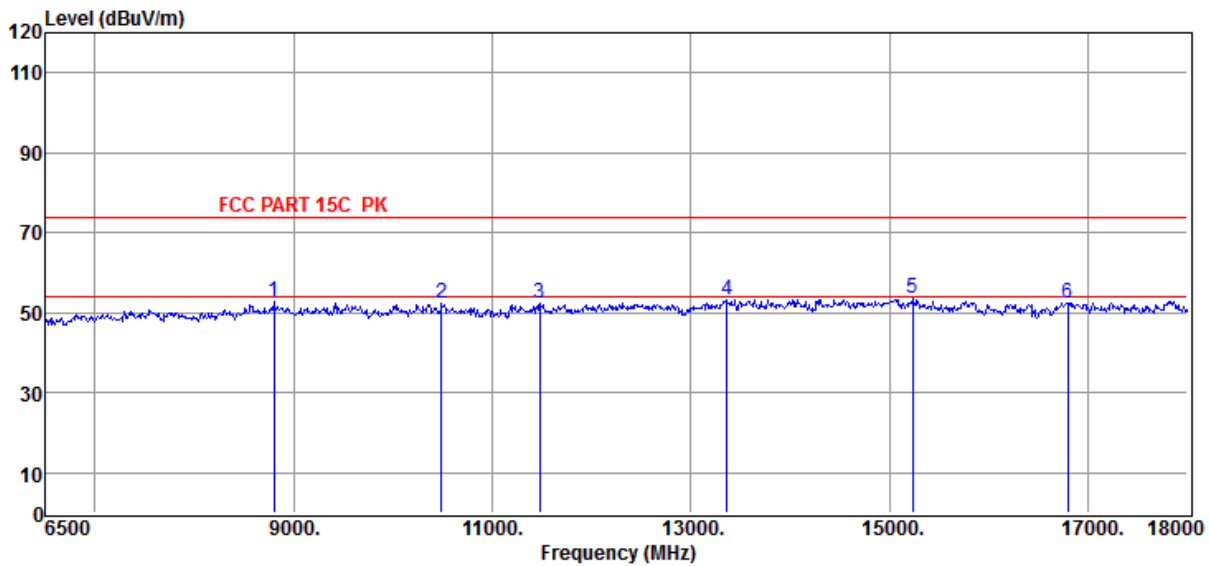
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5180MHz

Data: 166



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8800.00	42.19	38.08	15.31	52.66	74.00	-21.34	Peak	VERTICAL
2	10490.50	38.69	39.00	17.35	52.24	74.00	-21.76	Peak	VERTICAL
3	11479.50	39.07	38.80	17.07	52.19	74.00	-21.81	Peak	VERTICAL
4	13365.50	38.29	40.87	17.22	53.34	74.00	-20.66	Peak	VERTICAL
5	15228.50	39.19	38.96	18.05	53.45	74.00	-20.55	Peak	VERTICAL
6	16792.50	33.63	41.74	19.66	52.43	74.00	-21.57	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

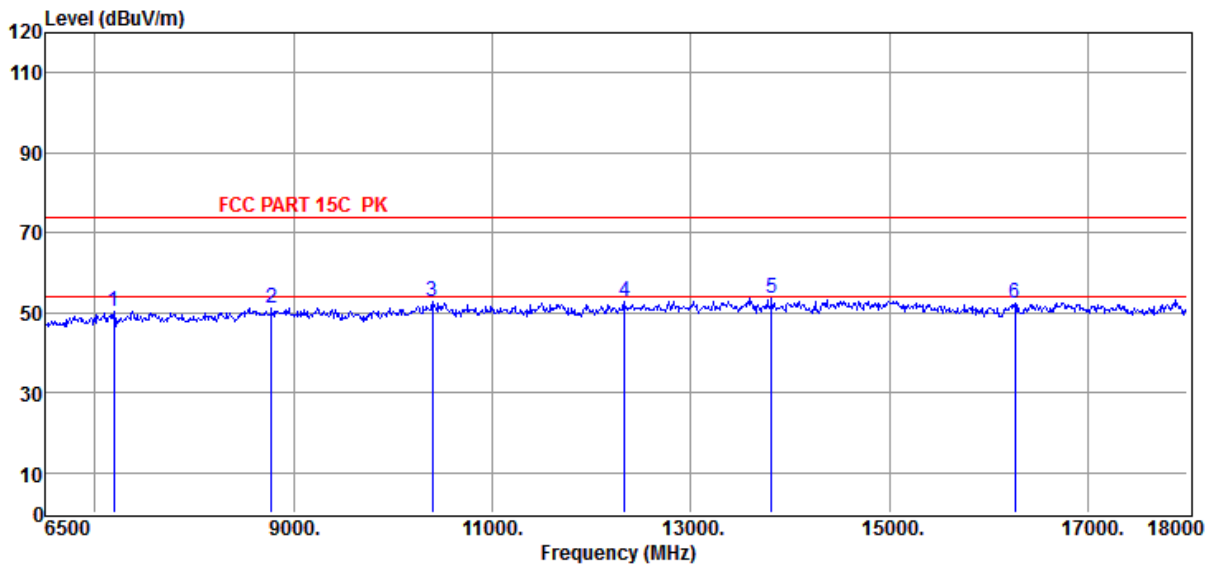
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5200MHz

Data: 167



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7190.00	41.51	37.75	13.89	50.47	74.00	-23.53	Peak	HORIZONTAL
2	8777.00	40.92	38.07	15.20	51.27	74.00	-22.73	Peak	HORIZONTAL
3	10398.50	39.09	38.96	17.33	52.58	74.00	-21.42	Peak	HORIZONTAL
4	12330.50	39.29	39.10	17.17	52.76	74.00	-21.24	Peak	HORIZONTAL
5	13814.00	38.91	40.87	17.09	53.79	74.00	-20.21	Peak	HORIZONTAL
6	16263.50	36.98	40.04	17.89	52.31	74.00	-21.69	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

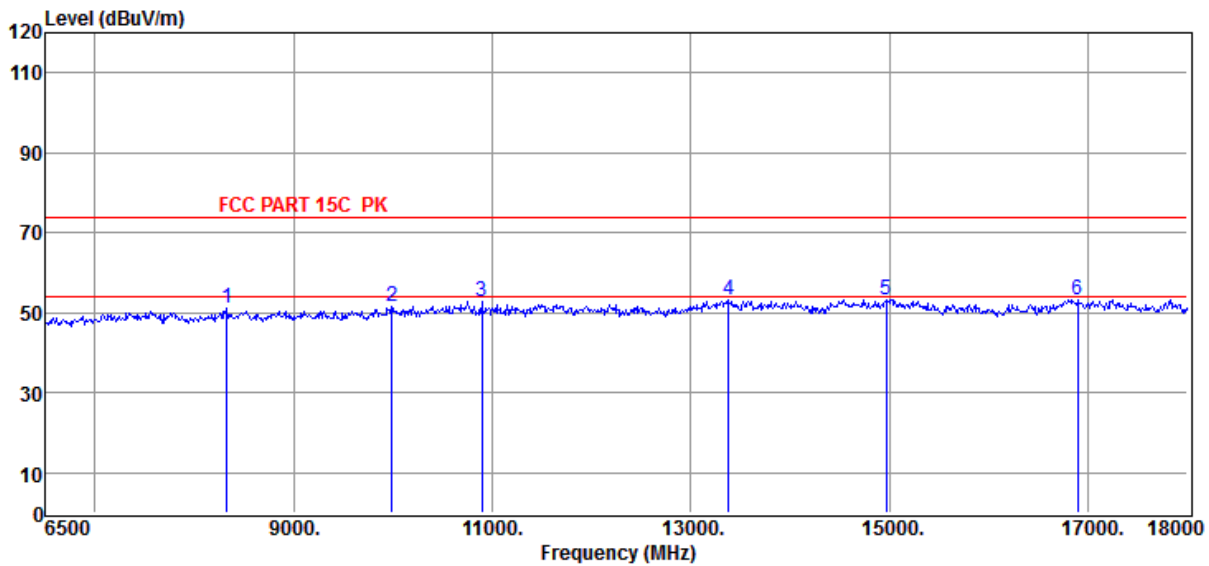
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5200MHz

Data: 168



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8328.50	41.91	37.73	14.62	51.29	74.00	-22.71	Peak	VERTICAL
2	9984.50	39.31	38.79	16.18	51.48	74.00	-22.52	Peak	VERTICAL
3	10893.00	40.22	38.92	16.28	52.62	74.00	-21.38	Peak	VERTICAL
4	13377.00	37.95	40.88	17.21	53.00	74.00	-21.00	Peak	VERTICAL
5	14964.00	38.78	39.17	18.22	53.36	74.00	-20.64	Peak	VERTICAL
6	16896.00	34.61	42.07	19.17	53.25	74.00	-20.75	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

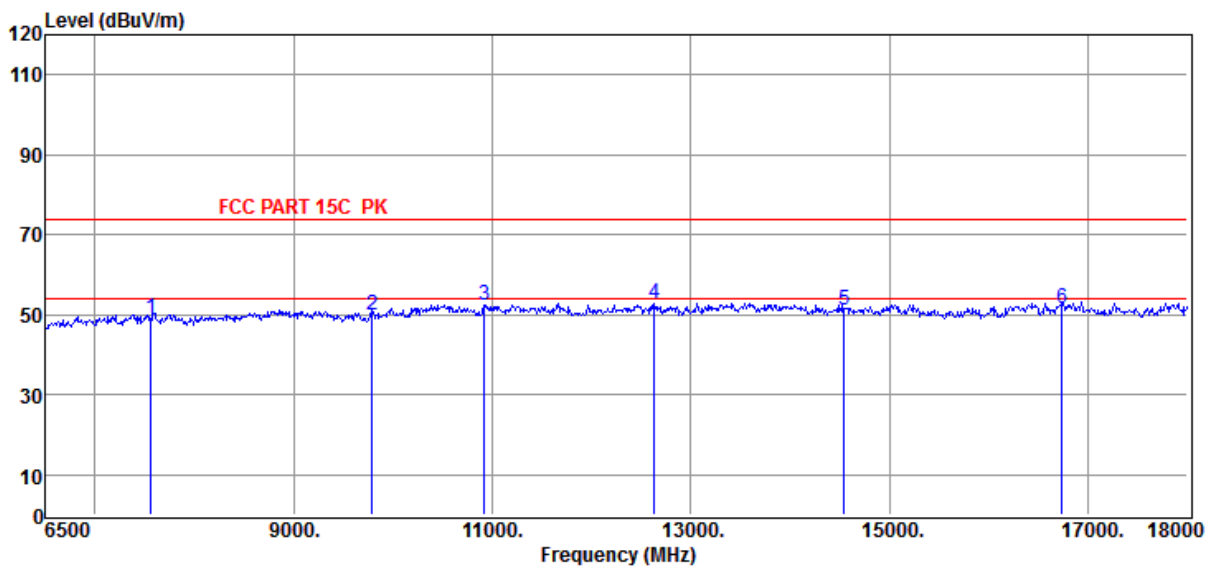
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5240MHz

Data: 169



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7558.00	39.34	37.93	14.60	49.05	74.00	-24.95	Peak	HORIZONTAL
2	9789.00	38.54	38.67	15.40	49.79	74.00	-24.21	Peak	HORIZONTAL
3	10916.00	39.87	38.92	16.27	52.26	74.00	-21.74	Peak	HORIZONTAL
4	12629.50	39.20	39.61	16.67	52.59	74.00	-21.41	Peak	HORIZONTAL
5	14538.50	37.24	40.02	16.96	51.28	74.00	-22.72	Peak	HORIZONTAL
6	16735.00	33.45	41.55	19.25	51.65	74.00	-22.35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

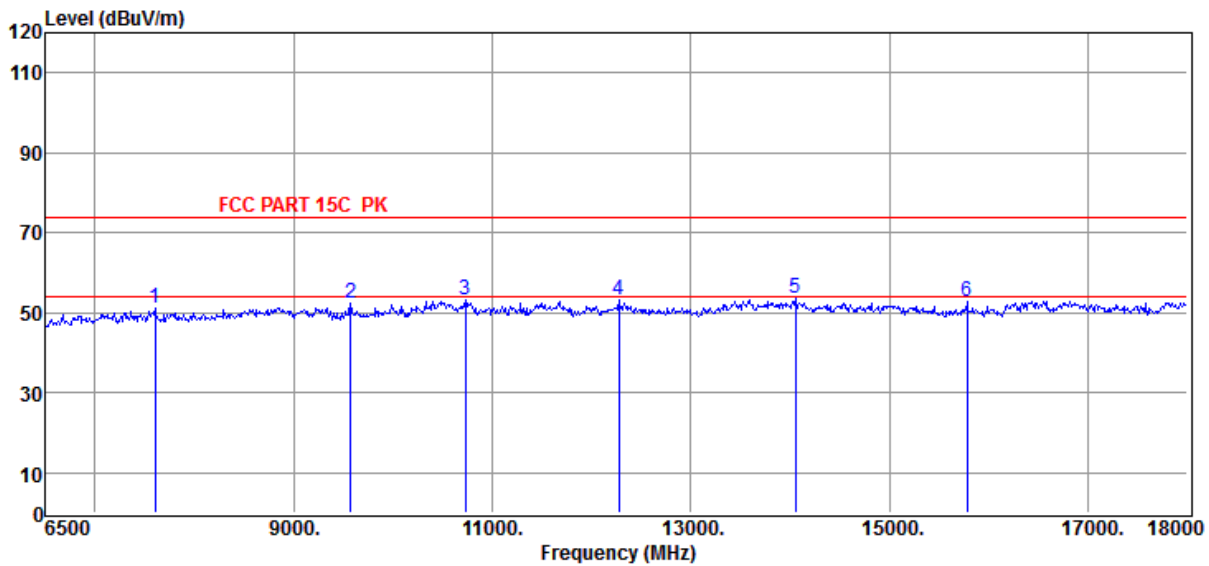
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5240MHz

Data: 170



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7604.00	41.30	37.88	14.81	51.15	74.00	-22.85	Peak	VERTICAL
2	9570.50	41.17	38.54	15.59	52.46	74.00	-21.54	Peak	VERTICAL
3	10732.00	40.49	38.95	16.68	53.32	74.00	-20.68	Peak	VERTICAL
4	12273.00	40.00	39.03	17.06	53.31	74.00	-20.69	Peak	VERTICAL
5	14055.50	38.47	40.72	17.54	53.65	74.00	-20.35	Peak	VERTICAL
6	15780.50	38.33	39.02	18.25	52.96	74.00	-21.04	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

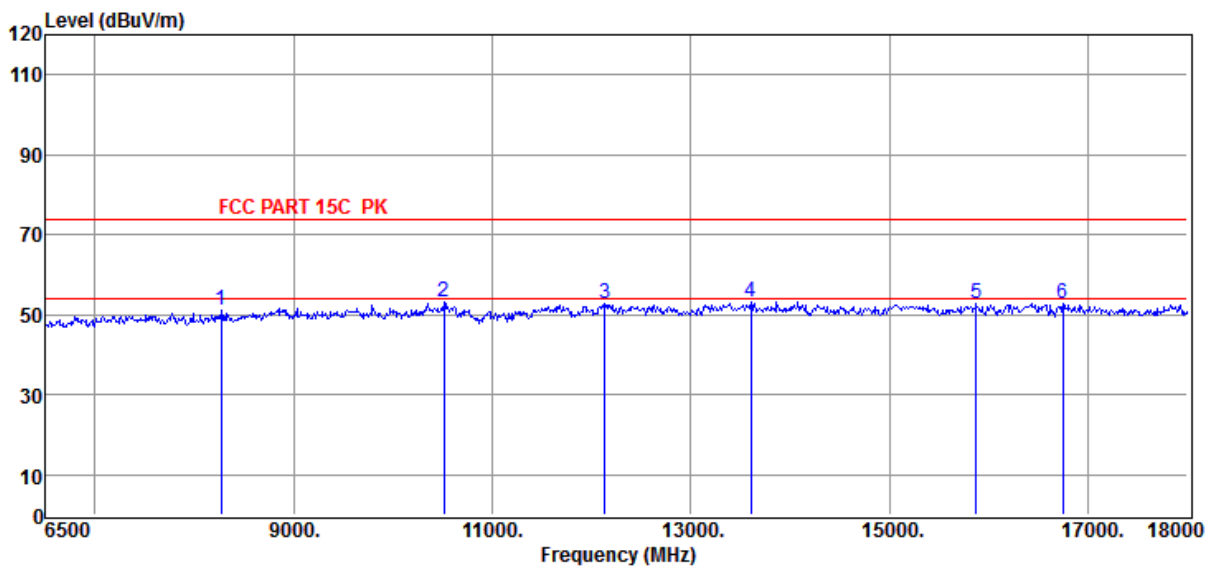
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5260MHz

Data: 171



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8271.00	41.55	37.67	14.70	50.95	74.00	-23.05	Peak	HORIZONTAL
2	10513.50	39.52	39.00	17.36	53.08	74.00	-20.92	Peak	HORIZONTAL
3	12135.00	39.58	38.86	16.89	52.59	74.00	-21.41	Peak	HORIZONTAL
4	13607.00	38.41	40.96	16.99	53.30	74.00	-20.70	Peak	HORIZONTAL
5	15872.50	38.43	39.10	18.07	52.97	74.00	-21.03	Peak	HORIZONTAL
6	16746.50	34.54	41.59	19.34	52.87	74.00	-21.13	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

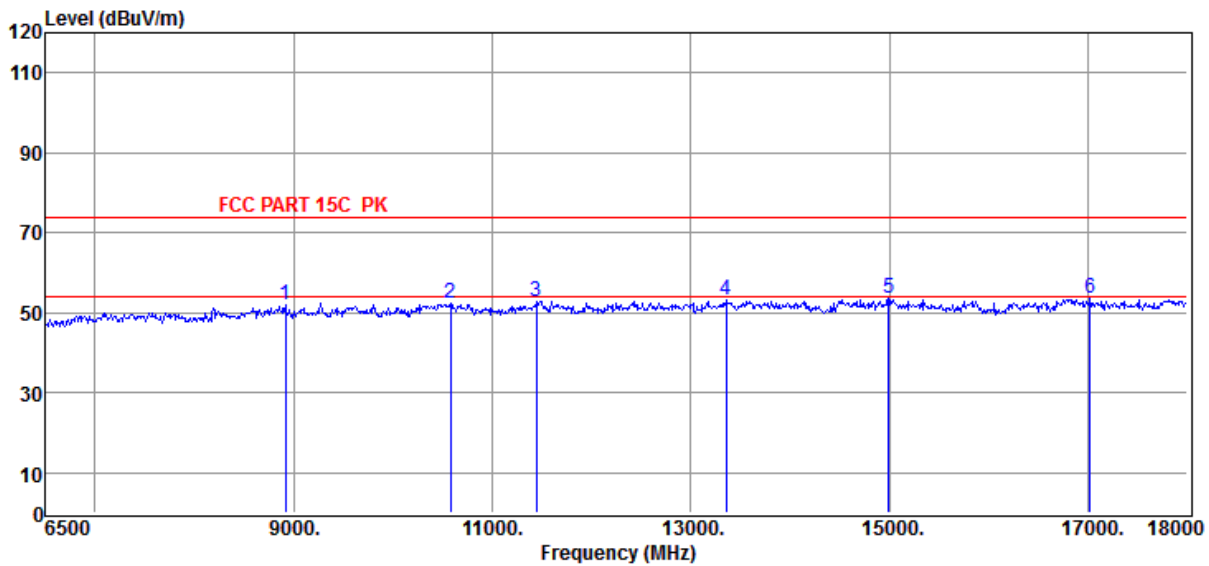
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5260MHz

Data: 172



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8915.00	41.32	38.15	15.32	51.88	74.00	-22.12	Peak	VERTICAL
2	10582.50	38.70	38.98	17.37	52.25	74.00	-21.75	Peak	VERTICAL
3	11445.00	40.04	38.81	16.88	52.97	74.00	-21.03	Peak	VERTICAL
4	13354.00	38.10	40.85	17.22	53.13	74.00	-20.87	Peak	VERTICAL
5	14987.00	38.81	39.13	18.33	53.47	74.00	-20.53	Peak	VERTICAL
6	17022.50	35.10	42.40	18.56	53.48	74.00	-20.52	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

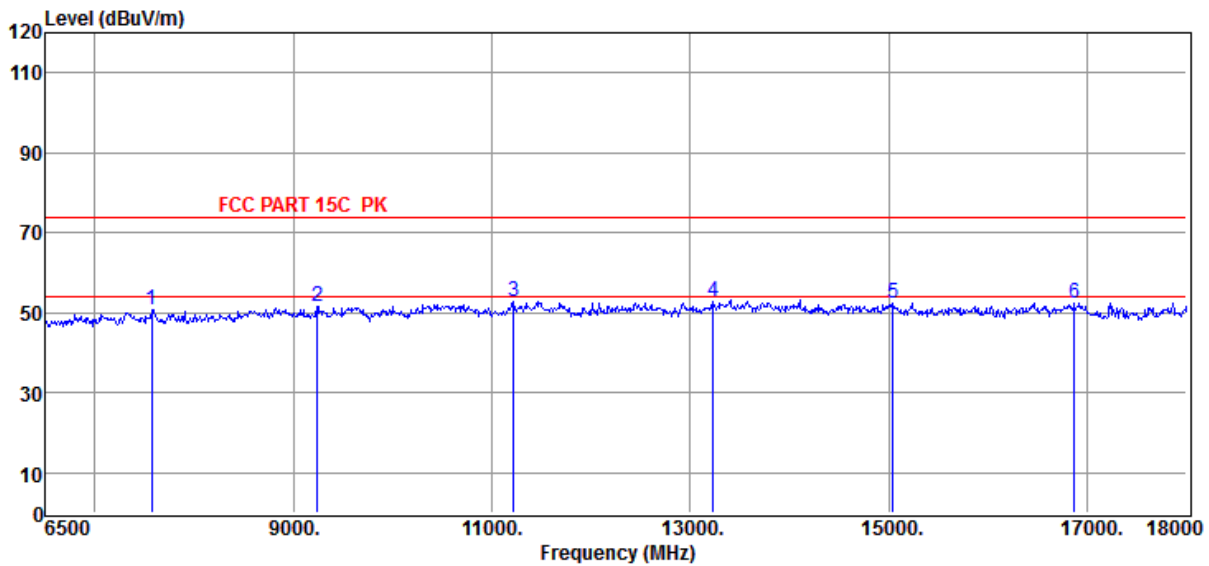
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5280MHz

Data: 173



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7569.50	40.95	37.92	14.67	50.71	74.00	-23.29	Peak	HORIZONTAL
2	9237.00	41.19	38.34	15.04	51.69	74.00	-22.31	Peak	HORIZONTAL
3	11215.00	40.32	38.86	16.32	52.72	74.00	-21.28	Peak	HORIZONTAL
4	13227.50	37.87	40.73	17.32	52.90	74.00	-21.10	Peak	HORIZONTAL
5	15044.50	37.87	39.07	18.32	52.47	74.00	-21.53	Peak	HORIZONTAL
6	16873.00	33.74	41.99	19.30	52.43	74.00	-21.57	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

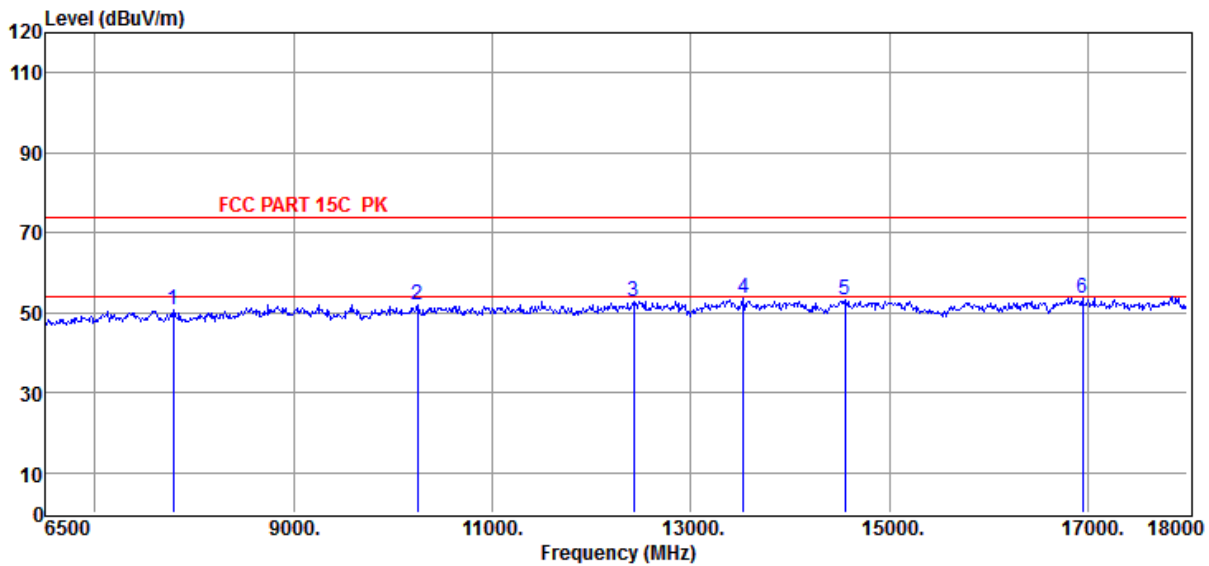
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5280MHz

Data: 174



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7788.00	41.01	37.65	14.92	50.66	74.00	-23.34	Peak	VERTICAL
2	10249.00	39.60	38.90	16.26	51.96	74.00	-22.04	Peak	VERTICAL
3	12422.50	39.32	39.21	17.24	52.94	74.00	-21.06	Peak	VERTICAL
4	13526.50	38.62	40.99	17.06	53.62	74.00	-20.38	Peak	VERTICAL
5	14550.00	39.32	40.00	16.99	53.38	74.00	-20.62	Peak	VERTICAL
6	16942.00	35.21	42.21	18.91	53.73	74.00	-20.27	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

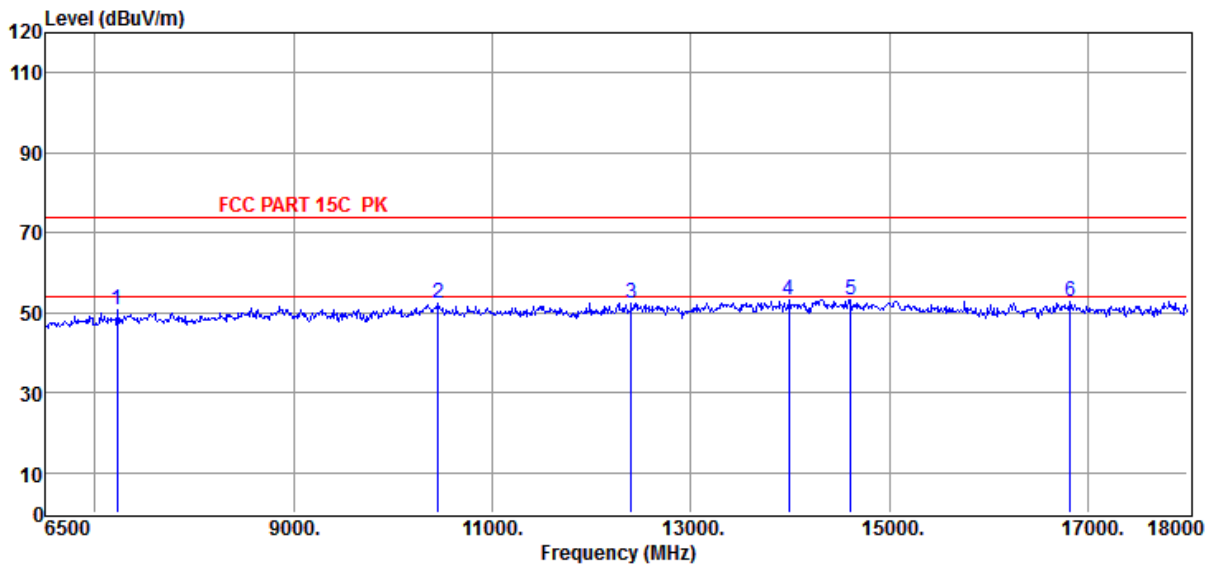
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5320MHz

Data: 175



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7224.50	41.72	37.78	13.93	50.74	74.00	-23.26	Peak	HORIZONTAL
2	10456.00	38.66	38.98	17.35	52.19	74.00	-21.81	Peak	HORIZONTAL
3	12399.50	38.77	39.18	17.31	52.44	74.00	-21.56	Peak	HORIZONTAL
4	13986.50	38.12	40.81	17.56	53.39	74.00	-20.61	Peak	HORIZONTAL
5	14607.50	39.09	39.88	17.11	53.16	74.00	-20.84	Peak	HORIZONTAL
6	16815.50	33.93	41.81	19.62	52.76	74.00	-21.24	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

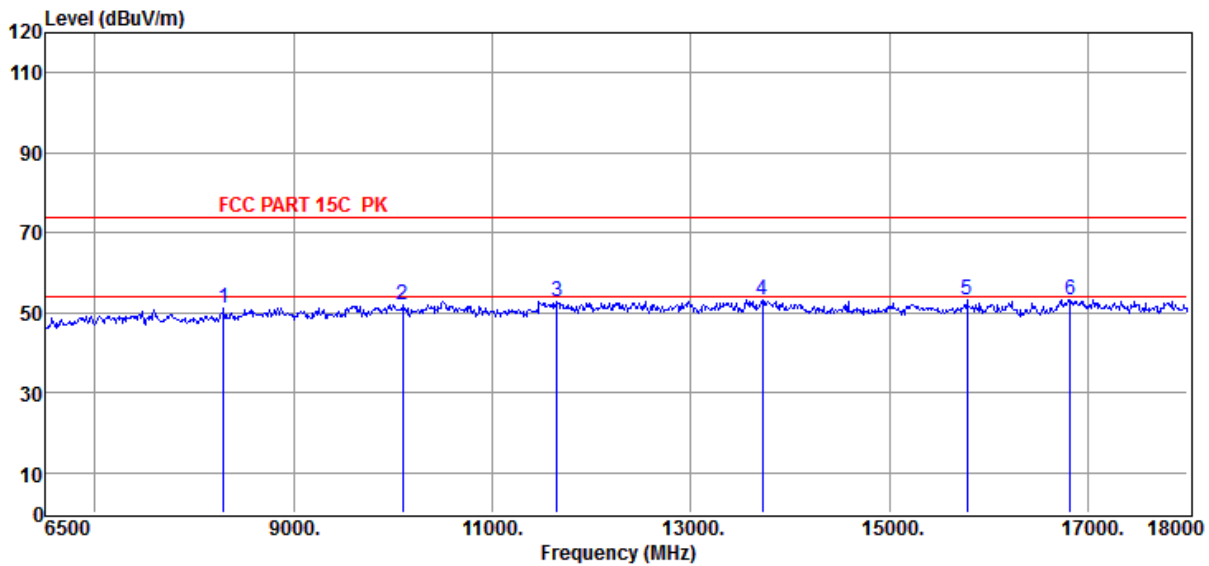
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5320MHz

Data: 176



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8294.00	41.62	37.69	14.68	51.02	74.00	-22.98	Peak	VERTICAL
2	10099.50	39.81	38.84	16.06	51.91	74.00	-22.09	Peak	VERTICAL
3	11652.00	39.34	38.77	17.43	52.81	74.00	-21.19	Peak	VERTICAL
4	13722.00	38.21	40.91	17.03	53.08	74.00	-20.92	Peak	VERTICAL
5	15780.50	38.49	39.02	18.25	53.12	74.00	-20.88	Peak	VERTICAL
6	16815.50	34.57	41.81	19.62	53.40	74.00	-20.60	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

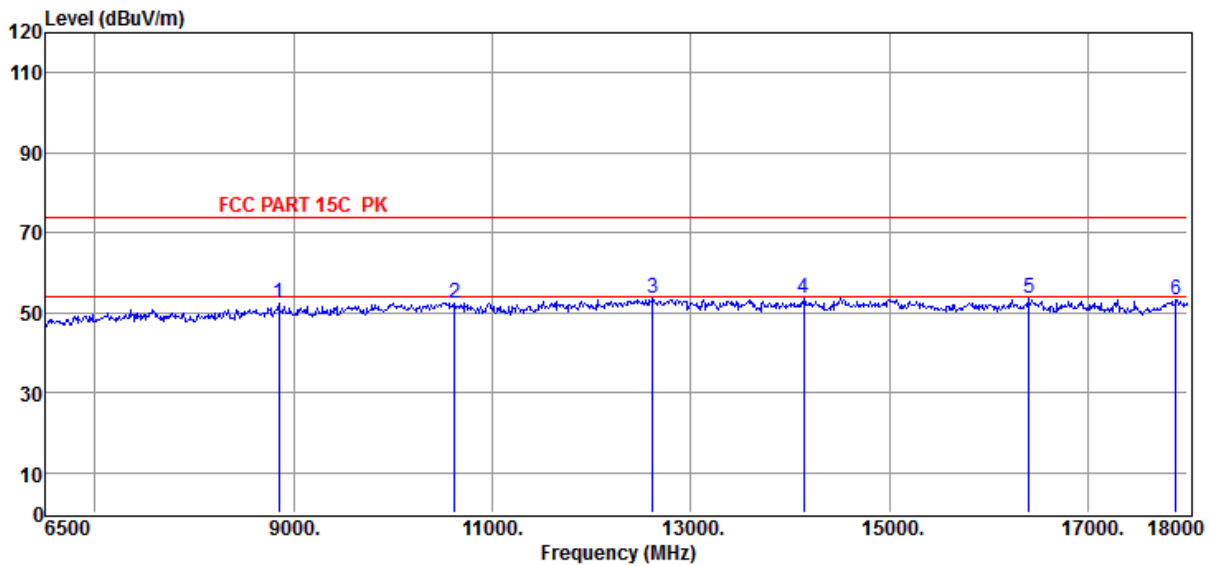
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5500MHz

Data: 177



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8846.00	41.63	38.11	15.36	52.18	74.00	-21.82	Peak	HORIZONTAL
2	10617.00	39.09	38.98	17.28	52.55	74.00	-21.45	Peak	HORIZONTAL
3	12618.00	40.02	39.58	16.70	53.41	74.00	-20.59	Peak	HORIZONTAL
4	14136.00	38.55	40.61	17.45	53.55	74.00	-20.45	Peak	HORIZONTAL
5	16401.50	37.46	40.48	18.18	53.52	74.00	-20.48	Peak	HORIZONTAL
6	17885.00	34.16	42.84	18.33	53.35	74.00	-20.65	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

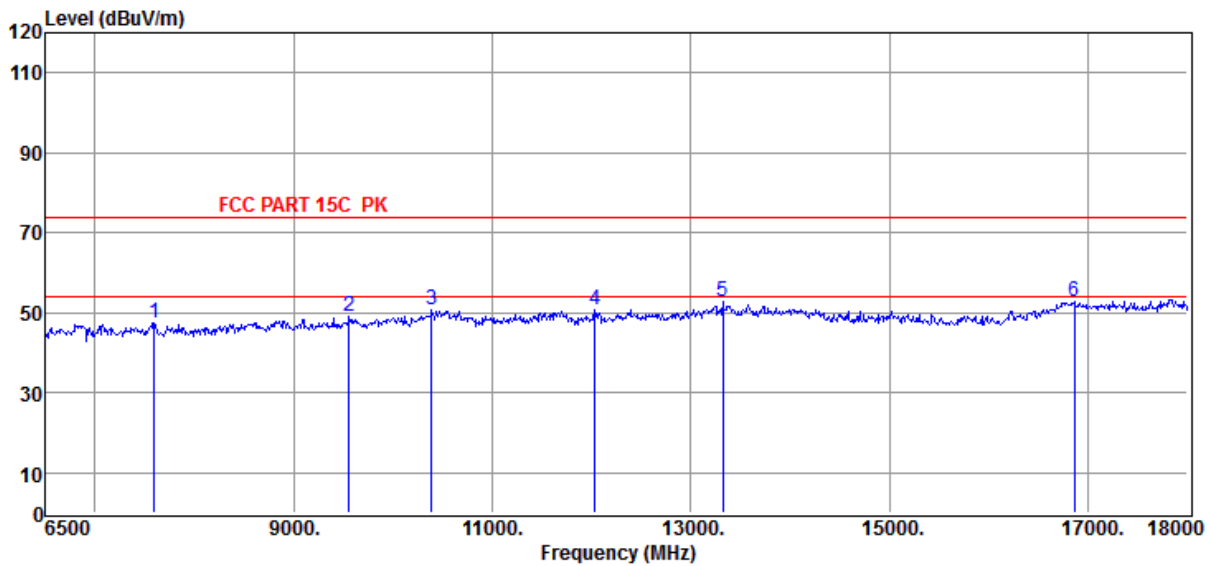
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5500MHz

Data: 178



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7592.50	37.58	37.89	14.80	47.43	74.00	-26.57	Peak	VERTICAL
2	9559.00	37.92	38.54	15.60	49.22	74.00	-24.78	Peak	VERTICAL
3	10387.00	37.34	38.95	17.25	50.74	74.00	-23.26	Peak	VERTICAL
4	12031.50	37.89	38.74	16.85	50.77	74.00	-23.23	Peak	VERTICAL
5	13319.50	37.86	40.82	17.25	52.90	74.00	-21.10	Peak	VERTICAL
6	16861.50	34.21	41.96	19.37	52.94	74.00	-21.06	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

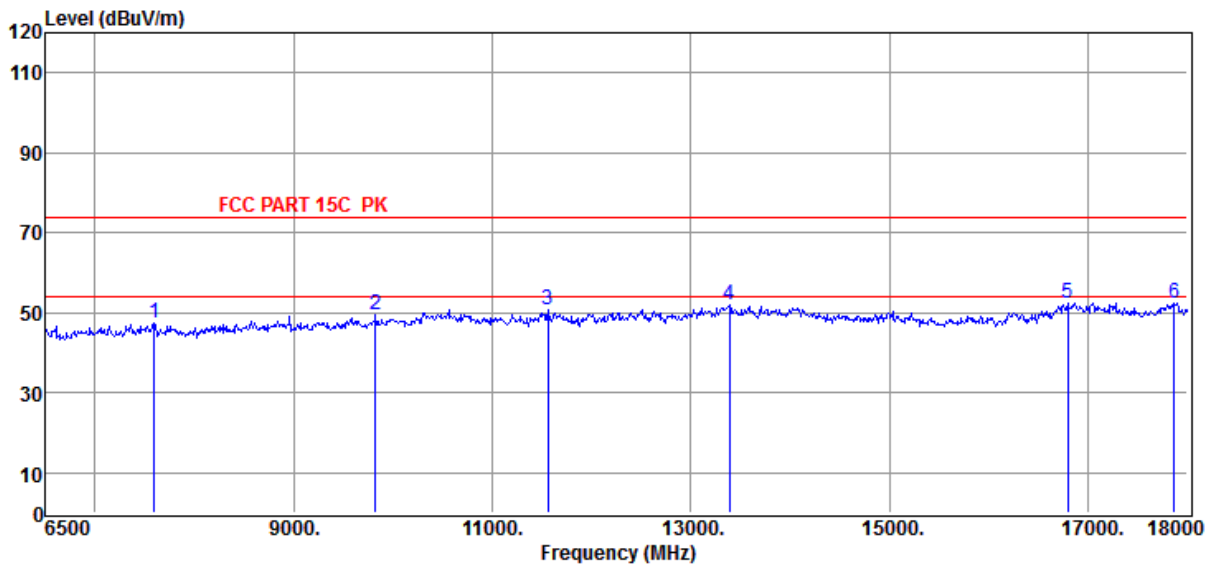
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5580MHz

Data: 179



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7592.50	37.51	37.89	14.80	47.36	74.00	-26.64	Peak	HORIZONTAL
2	9823.50	37.90	38.69	15.54	49.31	74.00	-24.69	Peak	HORIZONTAL
3	11560.00	36.97	38.79	17.50	50.52	74.00	-23.48	Peak	HORIZONTAL
4	13388.50	36.85	40.89	17.20	51.90	74.00	-22.10	Peak	HORIZONTAL
5	16792.50	33.59	41.74	19.66	52.39	74.00	-21.61	Peak	HORIZONTAL
6	17862.00	33.33	42.81	18.43	52.57	74.00	-21.43	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

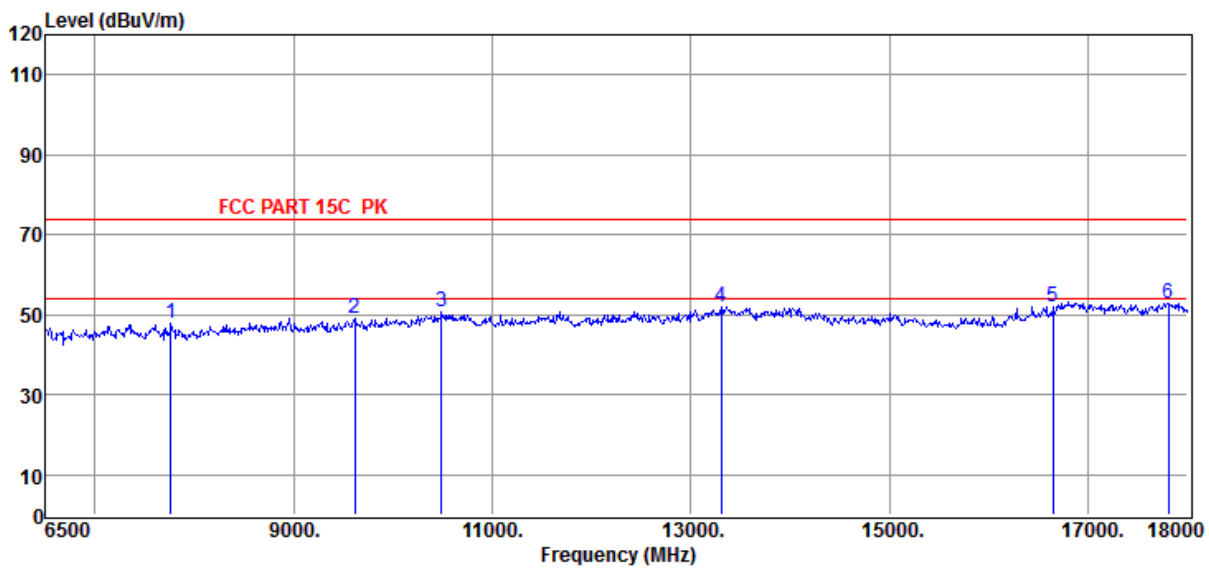
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5580MHz

Data: 180



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7765.00	38.25	37.68	14.70	47.72	74.00	-26.28	Peak	VERTICAL
2	9616.50	37.88	38.57	15.57	49.18	74.00	-24.82	Peak	VERTICAL
3	10490.50	37.01	39.00	17.35	50.56	74.00	-23.44	Peak	VERTICAL
4	13308.00	36.91	40.81	17.26	51.95	74.00	-22.05	Peak	VERTICAL
5	16643.00	34.74	41.26	18.61	52.01	74.00	-21.99	Peak	VERTICAL
6	17804.50	33.59	42.73	18.70	52.98	74.00	-21.02	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

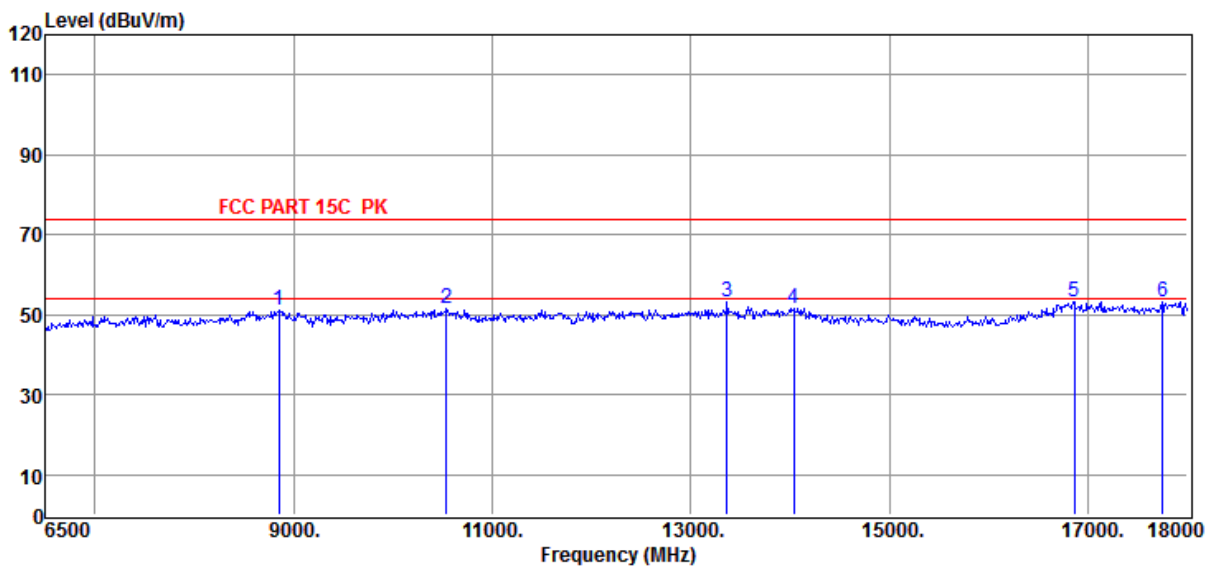
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5700MHz

Data: 181



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8846.00	40.62	38.11	15.36	51.17	74.00	-22.83	Peak	HORIZONTAL
2	10536.50	37.84	38.99	17.36	51.39	74.00	-22.61	Peak	HORIZONTAL
3	13365.50	38.33	40.87	17.22	53.38	74.00	-20.62	Peak	HORIZONTAL
4	14032.50	36.41	40.75	17.56	51.63	74.00	-22.37	Peak	HORIZONTAL
5	16861.50	34.56	41.96	19.37	53.29	74.00	-20.71	Peak	HORIZONTAL
6	17747.00	34.18	42.65	18.46	53.21	74.00	-20.79	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

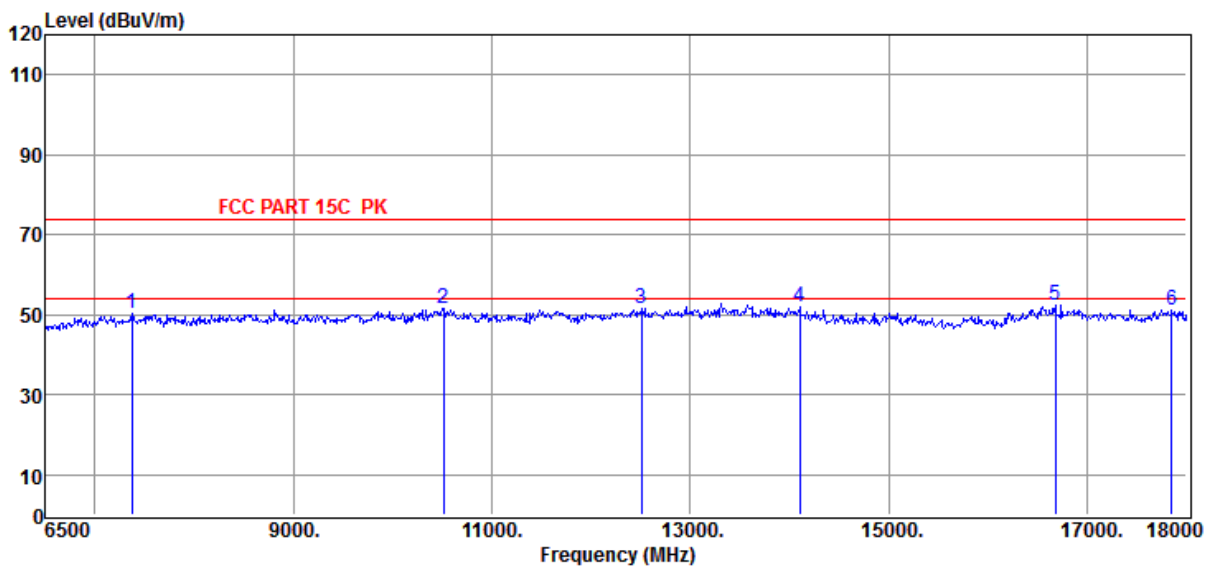
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5700MHz

Data: 182



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7374.00	40.86	37.90	14.22	50.23	74.00	-23.77	Peak	VERTICAL
2	10513.50	38.04	39.00	17.36	51.60	74.00	-22.40	Peak	VERTICAL
3	12503.00	37.94	39.31	17.01	51.41	74.00	-22.59	Peak	VERTICAL
4	14101.50	36.68	40.66	17.49	51.76	74.00	-22.24	Peak	VERTICAL
5	16677.50	34.56	41.37	18.85	52.18	74.00	-21.82	Peak	VERTICAL
6	17850.50	33.99	42.79	18.49	53.27	74.00	-20.73	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

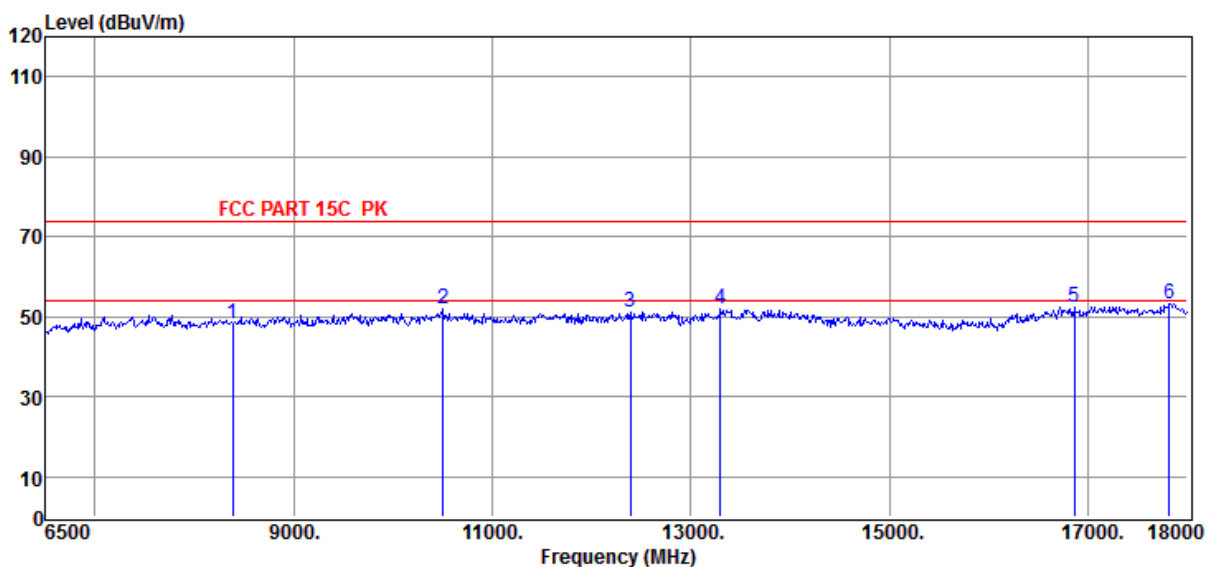
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5745MHz

Data: 183



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8386.00	39.01	37.79	14.53	48.37	74.00	-25.63	Peak	HORIZONTAL
2	10502.00	38.46	39.00	17.36	52.02	74.00	-21.98	Peak	HORIZONTAL
3	12388.00	37.57	39.17	17.29	51.21	74.00	-22.79	Peak	HORIZONTAL
4	13296.50	37.09	40.80	17.27	52.13	74.00	-21.87	Peak	HORIZONTAL
5	16861.50	33.72	41.96	19.37	52.45	74.00	-21.55	Peak	HORIZONTAL
6	17816.00	33.88	42.74	18.65	53.24	74.00	-20.76	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

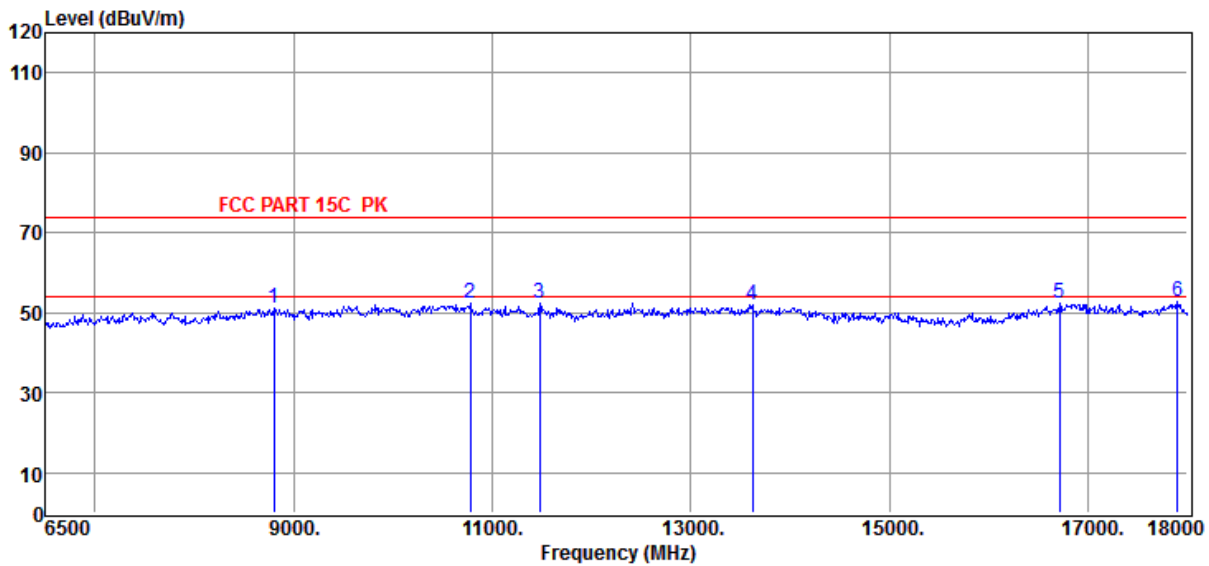
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5745MHz

Data: 184



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8800.00	40.63	38.08	15.31	51.10	74.00	-22.90	Peak	VERTICAL
2	10778.00	39.69	38.94	16.44	52.27	74.00	-21.73	Peak	VERTICAL
3	11479.50	39.12	38.80	17.07	52.24	74.00	-21.76	Peak	VERTICAL
4	13618.50	37.11	40.95	17.00	52.00	74.00	-22.00	Peak	VERTICAL
5	16712.00	34.47	41.48	19.09	52.44	74.00	-21.56	Peak	VERTICAL
6	17896.50	33.42	42.86	18.28	52.59	74.00	-21.41	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

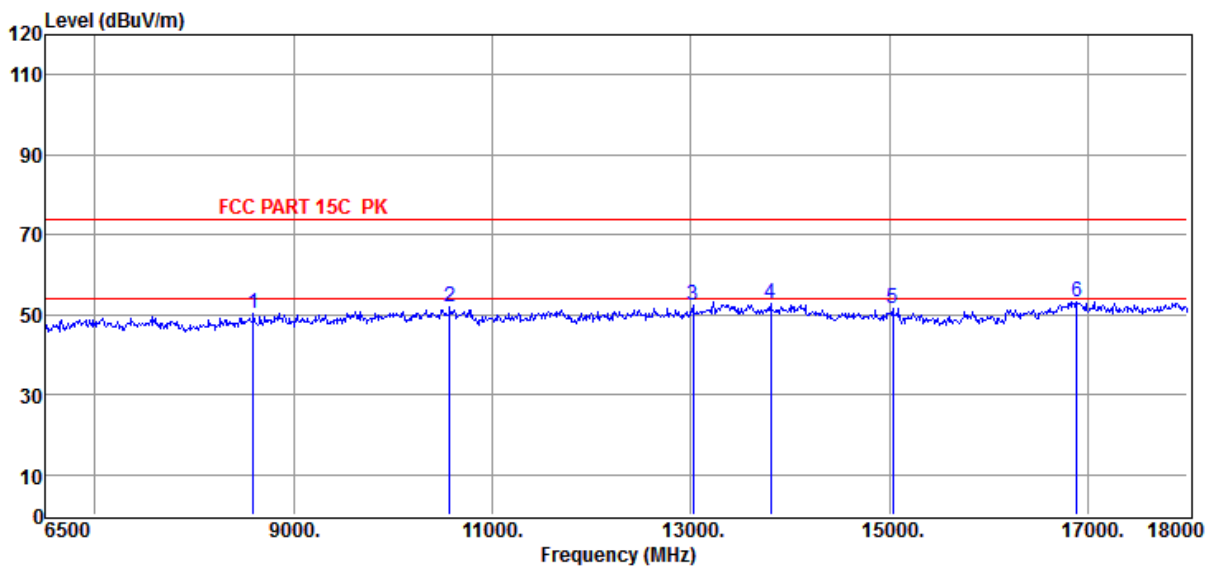
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5785MHz

Data: 185



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8593.00	40.39	37.96	15.10	50.51	74.00	-23.49	Peak	HORIZONTAL
2	10571.00	38.57	38.99	17.37	52.13	74.00	-21.87	Peak	HORIZONTAL
3	13020.50	38.21	40.52	16.56	52.29	74.00	-21.71	Peak	HORIZONTAL
4	13802.50	38.07	40.88	17.06	52.93	74.00	-21.07	Peak	HORIZONTAL
5	15033.00	36.82	39.08	18.34	51.45	74.00	-22.55	Peak	HORIZONTAL
6	16884.50	34.64	42.03	19.24	53.31	74.00	-20.69	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

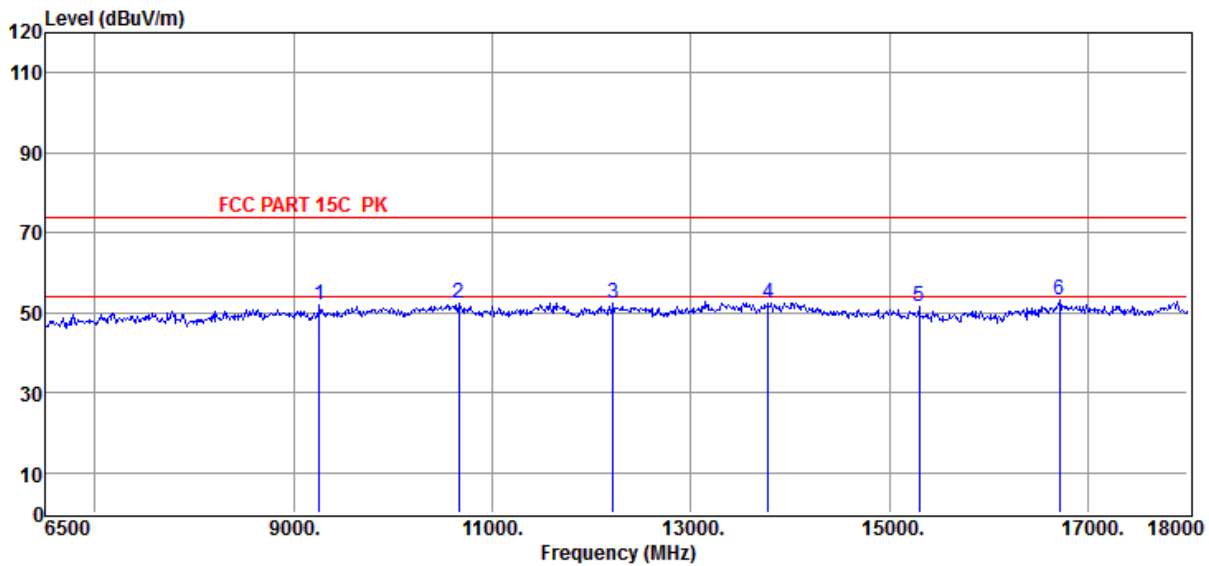
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5785MHz

Data: 186



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	9260.00	41.52	38.36	15.12	52.13	74.00	-21.87	Peak	VERTICAL
2	10663.00	39.00	38.97	17.04	52.21	74.00	-21.79	Peak	VERTICAL
3	12215.50	39.40	38.96	16.94	52.54	74.00	-21.46	Peak	VERTICAL
4	13779.50	37.68	40.89	17.04	52.53	74.00	-21.47	Peak	VERTICAL
5	15297.50	37.40	38.92	18.04	51.62	74.00	-22.38	Peak	VERTICAL
6	16712.00	35.25	41.48	19.09	53.22	74.00	-20.78	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

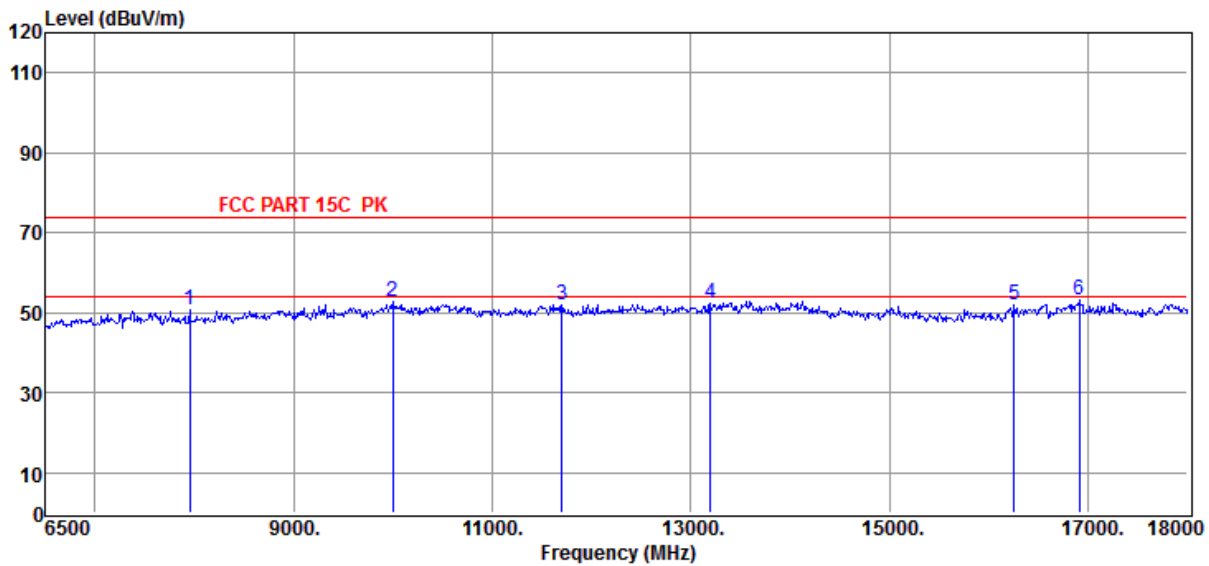
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5825MHz

Data: 187



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7949.00	41.85	37.46	14.24	50.57	74.00	-23.43	Peak	HORIZONTAL
2	9996.00	40.62	38.80	16.20	52.82	74.00	-21.18	Peak	HORIZONTAL
3	11698.00	38.94	38.76	17.17	52.14	74.00	-21.86	Peak	HORIZONTAL
4	13193.00	37.34	40.69	17.31	52.32	74.00	-21.68	Peak	HORIZONTAL
5	16252.00	36.60	40.01	17.86	51.87	74.00	-22.13	Peak	HORIZONTAL
6	16907.50	34.46	42.10	19.11	53.07	74.00	-20.93	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-09-2024

Tested By : Sunny

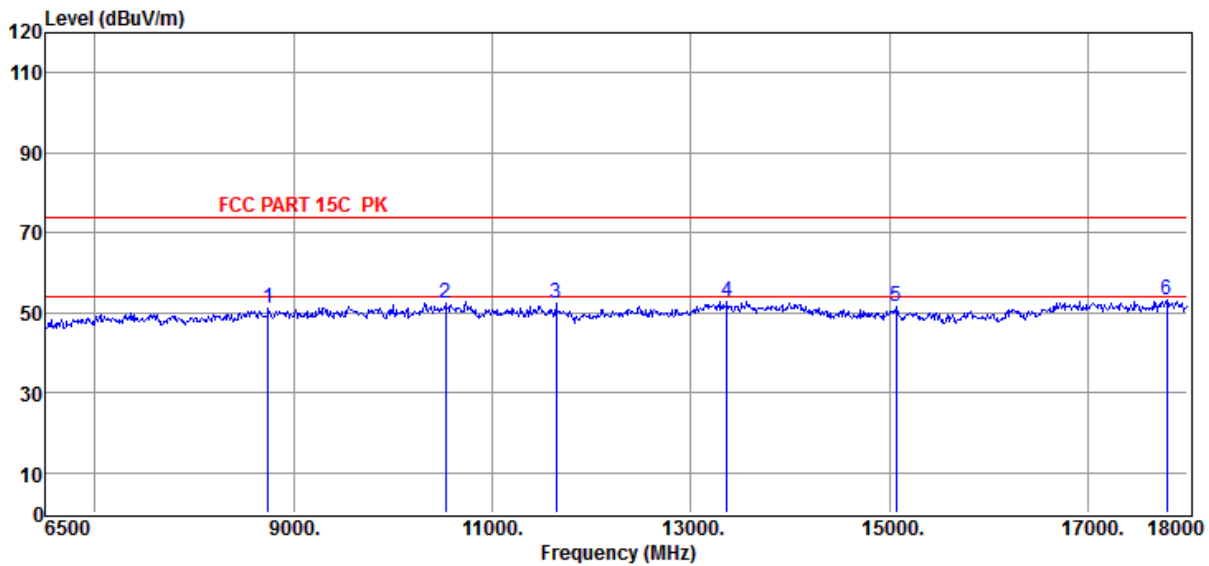
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5825MHz

Data: 188



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8742.50	41.01	38.05	15.03	51.16	74.00	-22.84	Peak	VERTICAL
2	10525.00	38.96	38.99	17.36	52.51	74.00	-21.49	Peak	VERTICAL
3	11640.50	38.85	38.77	17.49	52.37	74.00	-21.63	Peak	VERTICAL
4	13365.50	37.91	40.87	17.22	52.96	74.00	-21.04	Peak	VERTICAL
5	15067.50	36.83	39.06	18.28	51.38	74.00	-22.62	Peak	VERTICAL
6	17793.00	33.65	42.71	18.69	53.01	74.00	-20.99	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Simultaneous transmission

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-19-2024

Tested By : Sunny

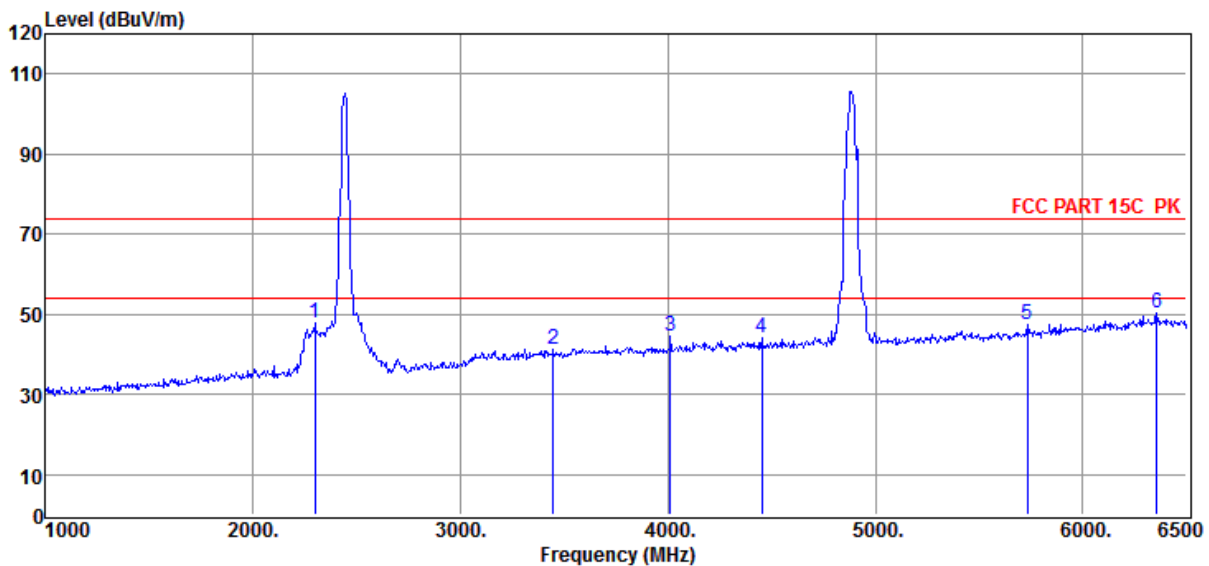
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11b 1M 2412MHz + 11ac20 MCS0 5745MHz

Data: 486



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2298.70	59.49	28.36	3.63	47.67	74.00	-26.33	Peak	HORIZONTAL
2	3447.55	49.12	30.96	4.66	41.36	74.00	-32.64	Peak	HORIZONTAL
3	4013.65	50.33	32.51	4.91	44.66	74.00	-29.34	Peak	HORIZONTAL
4	4452.10	48.26	32.68	5.98	44.05	74.00	-29.95	Peak	HORIZONTAL
5	5734.15	48.25	35.30	6.12	47.22	74.00	-26.78	Peak	HORIZONTAL
6	6355.75	48.23	36.53	7.87	50.16	74.00	-23.84	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-19-2024

Tested By : Sunny

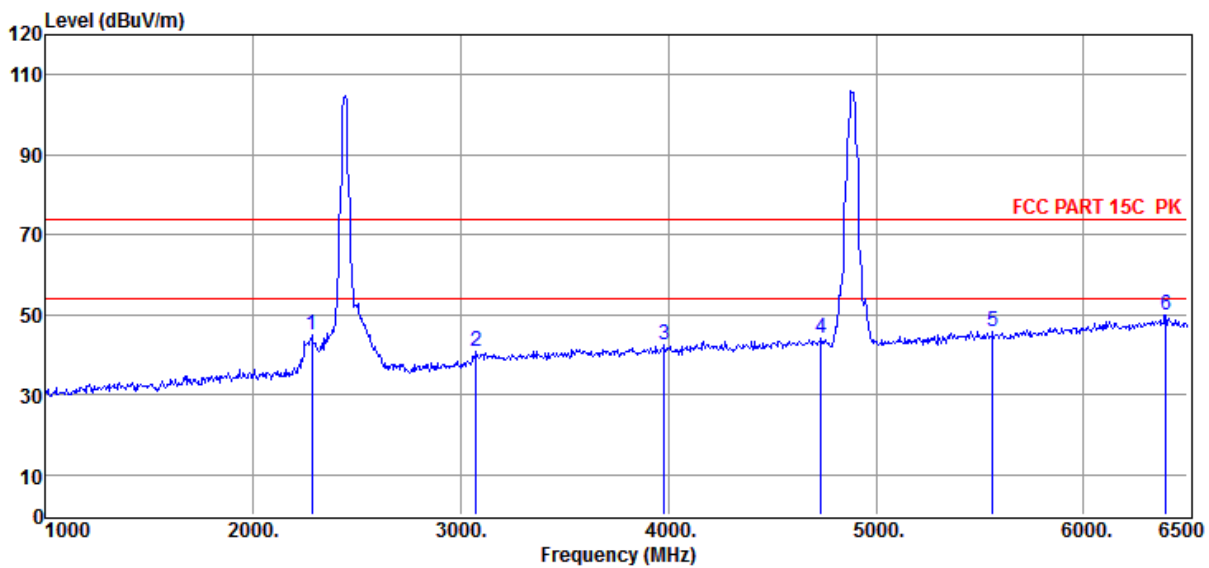
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11b 1M 2412MHz + 11ac20 MCS0 5745MHz

Data: 487



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2282.05	56.62	28.36	3.66	44.82	74.00	-29.18	Peak	VERTICAL
2	3075.70	49.85	30.00	4.45	40.74	74.00	-33.26	Peak	VERTICAL
3	3980.35	48.07	32.44	4.87	42.27	74.00	-31.73	Peak	VERTICAL
4	4735.15	47.95	33.12	5.84	44.18	74.00	-29.82	Peak	VERTICAL
5	5562.10	47.09	34.79	6.35	45.74	74.00	-28.26	Peak	VERTICAL
6	6394.60	47.73	36.57	8.01	49.83	74.00	-24.17	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-19-2024

Tested By : Sunny

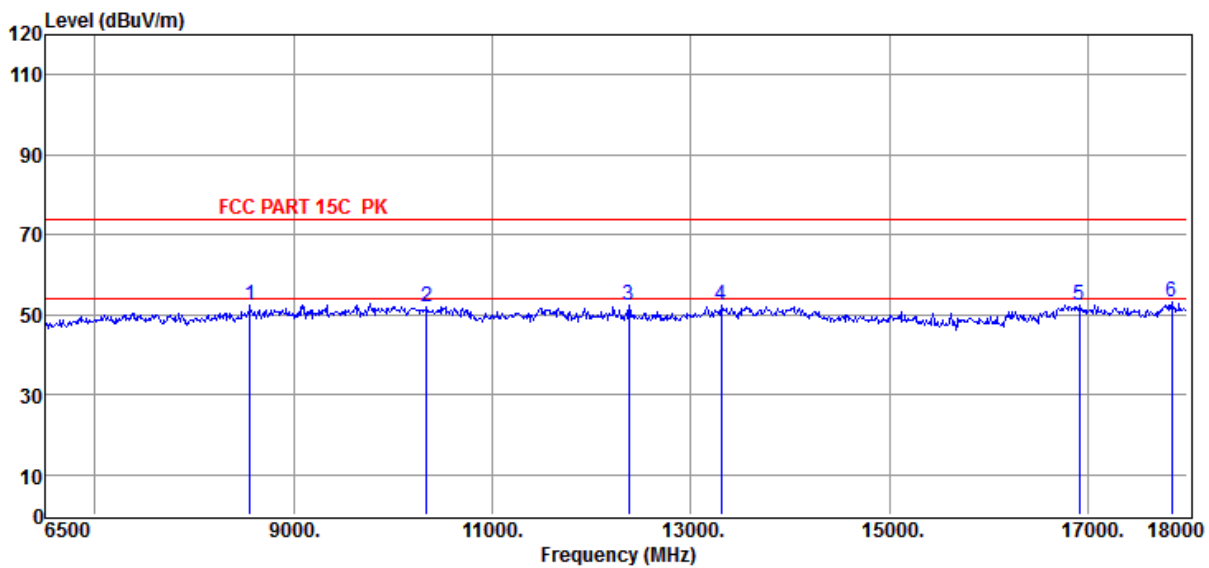
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11b 1M 2412MHz + 11ac20 MCS0 5745MHz

Data: 488



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8558.50	42.24	37.94	15.07	52.31	74.00	-21.69	Peak	HORIZONTAL
2	10341.00	38.98	38.94	16.92	52.04	74.00	-21.96	Peak	HORIZONTAL
3	12376.50	38.60	39.15	17.26	52.20	74.00	-21.80	Peak	HORIZONTAL
4	13308.00	37.27	40.81	17.26	52.31	74.00	-21.69	Peak	HORIZONTAL
5	16907.50	33.61	42.10	19.11	52.22	74.00	-21.78	Peak	HORIZONTAL
6	17839.00	33.69	42.77	18.54	52.99	74.00	-21.01	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-19-2024

Tested By : Sunny

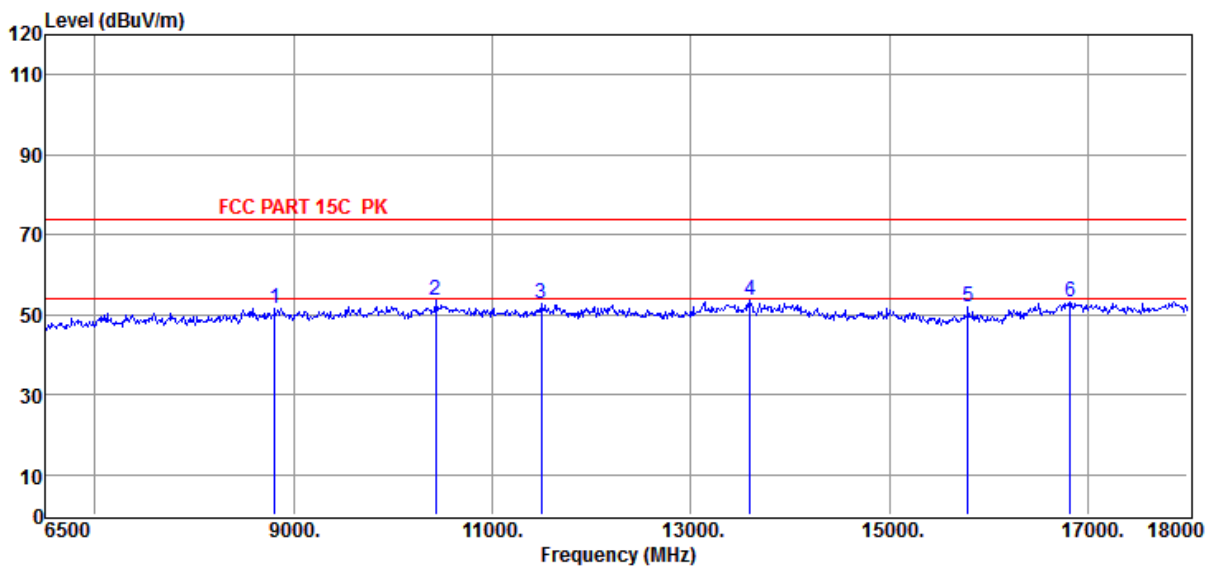
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11b 1M 2412MHz + 11ac20 MCS0 5745MHz

Data: 489



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8811.50	41.19	38.09	15.32	51.68	74.00	-22.32	Peak	VERTICAL
2	10433.00	39.95	38.97	17.34	53.46	74.00	-20.54	Peak	VERTICAL
3	11491.00	39.74	38.80	17.13	52.92	74.00	-21.08	Peak	VERTICAL
4	13595.50	38.59	40.96	16.99	53.48	74.00	-20.52	Peak	VERTICAL
5	15792.00	37.25	39.03	18.30	51.94	74.00	-22.06	Peak	VERTICAL
6	16815.50	34.57	41.81	19.62	53.40	74.00	-20.60	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

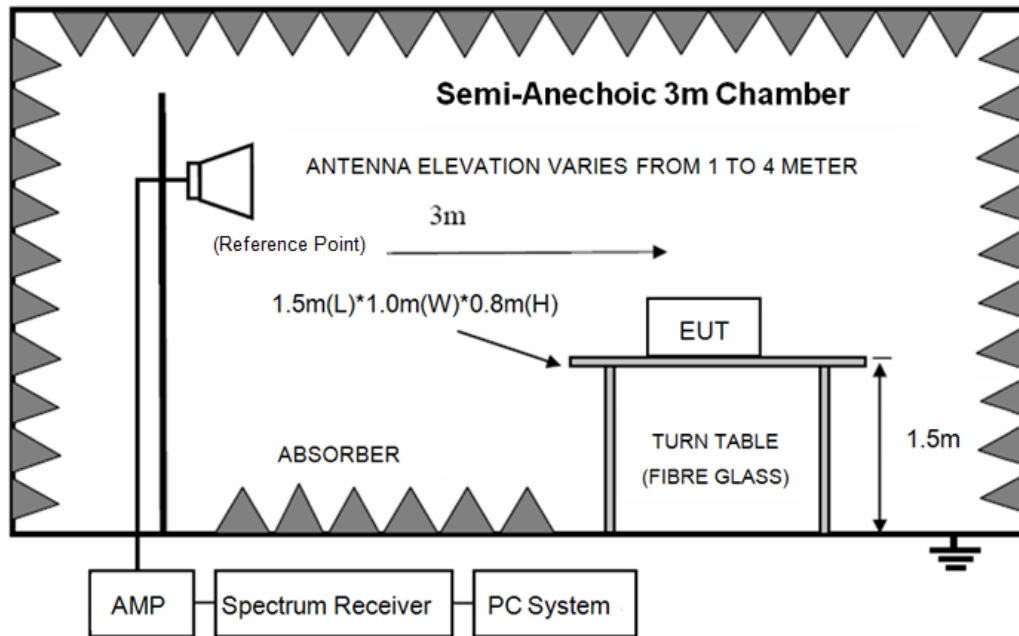
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

10. Band Edge Compliance

10.1. Block diagram of test setup



10.2. Limit

- (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.
 - (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.
 - (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range shall comply with 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.
 - (5) 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.
 - (6) The provisions of §15.205 apply to intentional radiators operating under this section.
- 27 dBm/MHz Limit= $95.2 + \text{EIRP [dBm]} = 95.2 - 27 = 122.2 \text{ dB}\mu\text{V/m}$

16.5 dBm/MHz Limit=95.2+EIRP [dBm]=95.2-27=110.8 dBμV/m

10 dBm/MHz Limit=95.2+EIRP [dBm]=95.2-27=105.2 dBμV/m

-27 dBm/MHz Limit=95.2+EIRP [dBm]=95.2-27=68.2 dBμV/m

10.3. Test procedure

Same with clause 9.3 except change investigated frequency range.

Remark: All restriction band have been tested, and only the worst case is shown in report.

10.4. Test result

Pass. (See below detailed test result)

Note1: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

EUT : Wireless Bridge

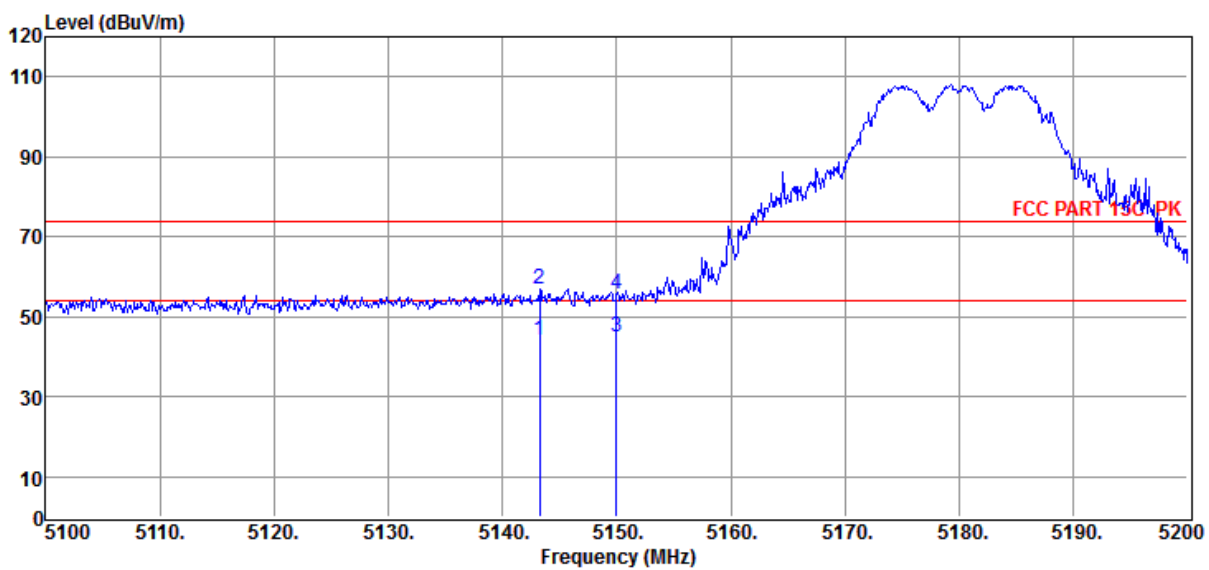
Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter

Test Mode : Tx mode

Memo : 11A 6M ANT1+2 5180MHz

Data: 69



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5143.30	40.29	33.89	12.48	44.09	54.00	-9.91	Average	VERTICAL
2	5143.30	52.96	33.89	12.48	56.76	74.00	-17.24	Peak	VERTICAL
3	5150.00	40.97	33.90	12.49	44.79	54.00	-9.21	Average	VERTICAL
4	5150.00	52.02	33.90	12.49	55.84	74.00	-18.16	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

EUT : Wireless Bridge

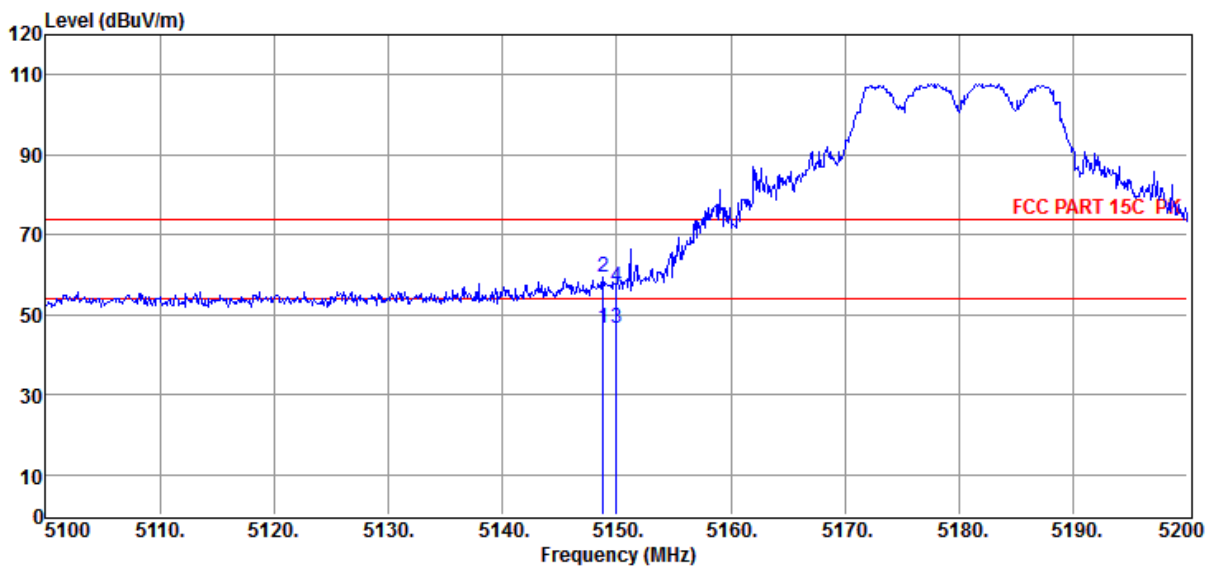
Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter

Test Mode : Tx mode

Memo : 11A 6M ANT1+2 5180MHz

Data: 70



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.80	42.69	33.90	12.48	46.50	54.00	-7.50	Average	HORIZONTAL
2	5148.80	55.65	33.90	12.48	59.46	74.00	-14.54	Peak	HORIZONTAL
3	5150.00	42.65	33.90	12.49	46.47	54.00	-7.53	Average	HORIZONTAL
4	5150.00	53.25	33.90	12.49	57.07	74.00	-16.93	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

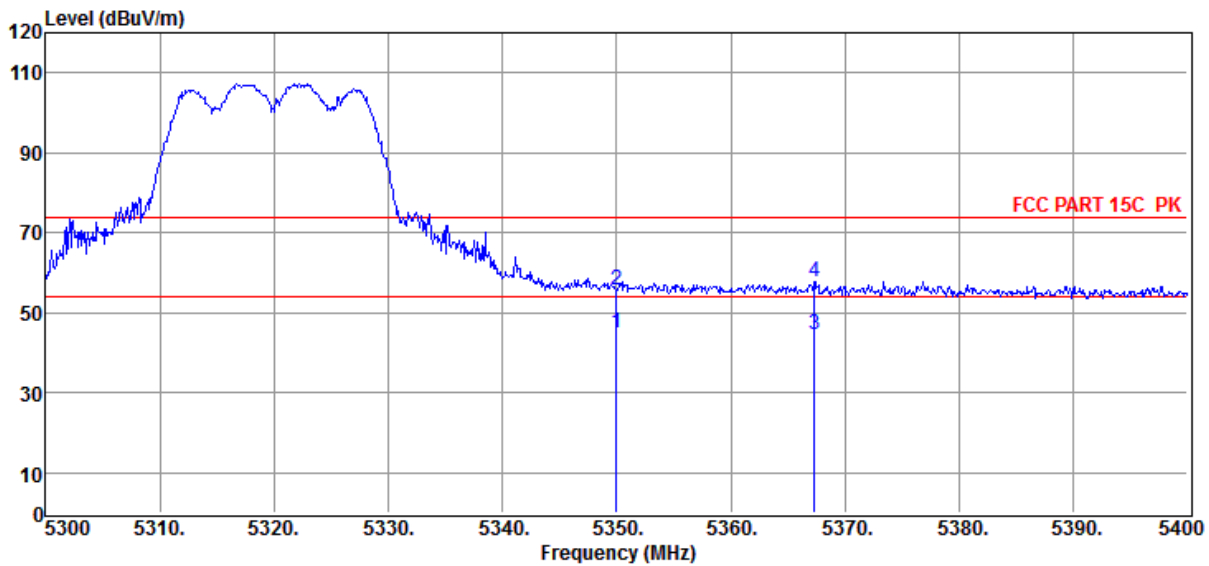
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11A 6M ANT1+2 5320MHz

Data: 71



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	40.76	34.30	12.56	45.09	54.00	-8.91	Average	HORIZONTAL
2	5350.00	51.14	34.30	12.56	55.47	74.00	-18.53	Peak	HORIZONTAL
3	5367.30	40.30	34.33	12.58	44.68	54.00	-9.32	Average	HORIZONTAL
4	5367.30	53.38	34.33	12.58	57.76	74.00	-16.24	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

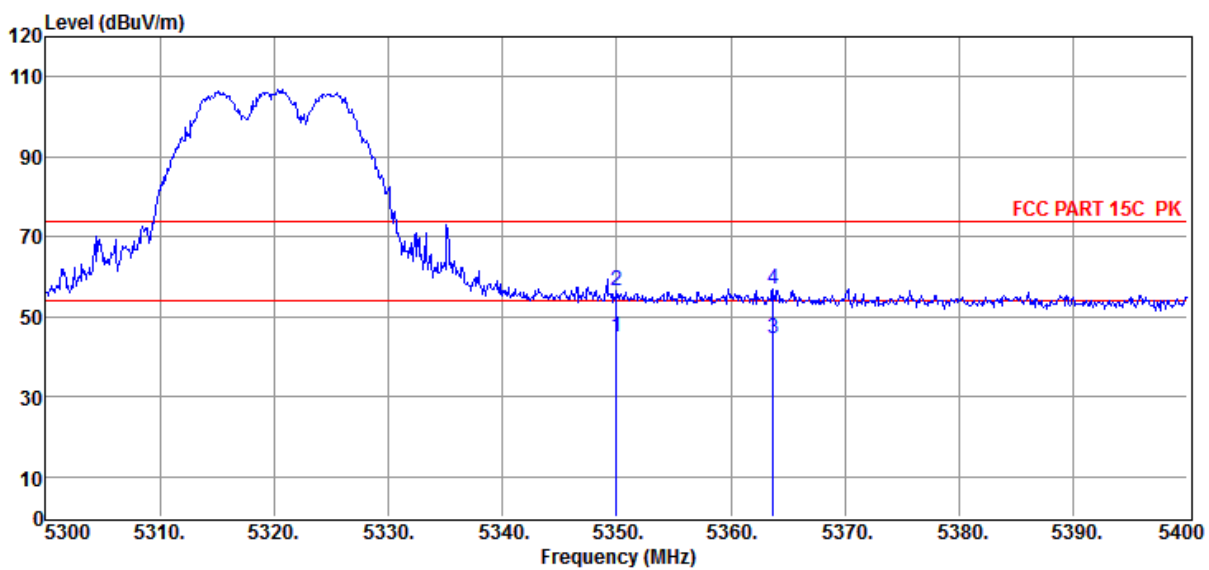
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11A 6M ANT1+2 5320MHz

Data: 72



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	40.78	34.30	12.56	45.11	54.00	-8.89	Average	VERTICAL
2	5350.00	52.23	34.30	12.56	56.56	74.00	-17.44	Peak	VERTICAL
3	5363.70	40.06	34.33	12.58	44.44	54.00	-9.56	Average	VERTICAL
4	5363.70	52.57	34.33	12.58	56.95	74.00	-17.05	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

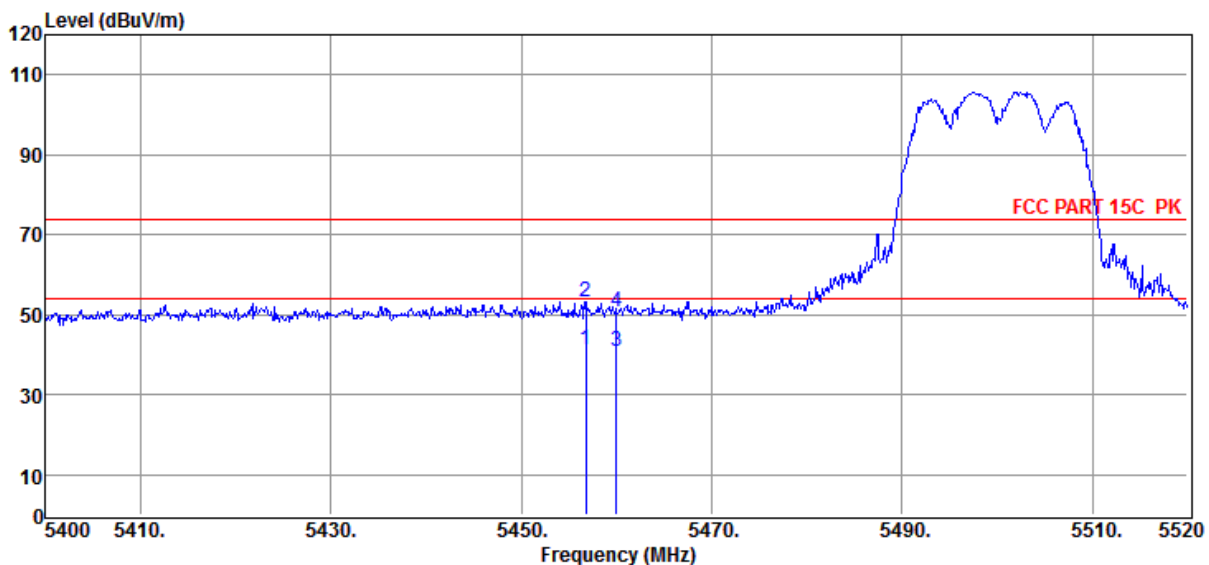
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11A 6M ANT1+2 5500MHz

Data: 73



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5456.76	36.68	34.51	12.72	41.40	54.00	-12.60	Average	HORIZONTAL
2	5456.76	48.64	34.51	12.72	53.36	74.00	-20.64	Peak	HORIZONTAL
3	5460.00	36.15	34.52	12.73	40.89	54.00	-13.11	Average	HORIZONTAL
4	5460.00	45.96	34.52	12.73	50.70	74.00	-23.30	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

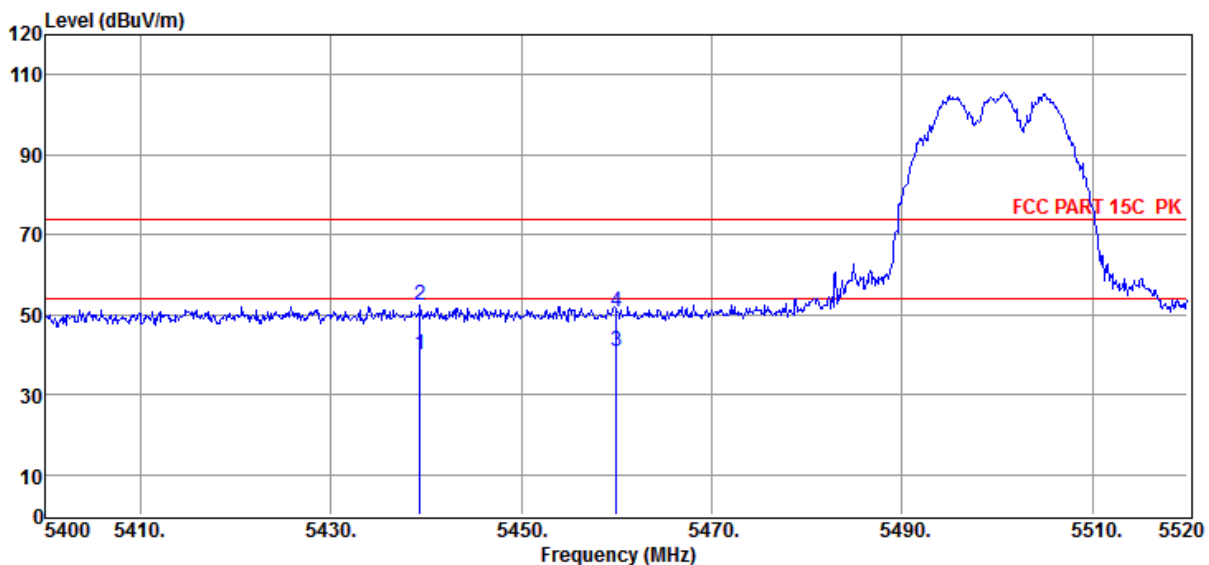
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11A 6M ANT1+2 5500MHz

Data: 74



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5439.36	35.31	34.48	12.69	39.97	54.00	-14.03	Average	VERTICAL
2	5439.36	47.51	34.48	12.69	52.17	74.00	-21.83	Peak	VERTICAL
3	5460.00	35.88	34.52	12.73	40.62	54.00	-13.38	Average	VERTICAL
4	5460.00	46.04	34.52	12.73	50.78	74.00	-23.22	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

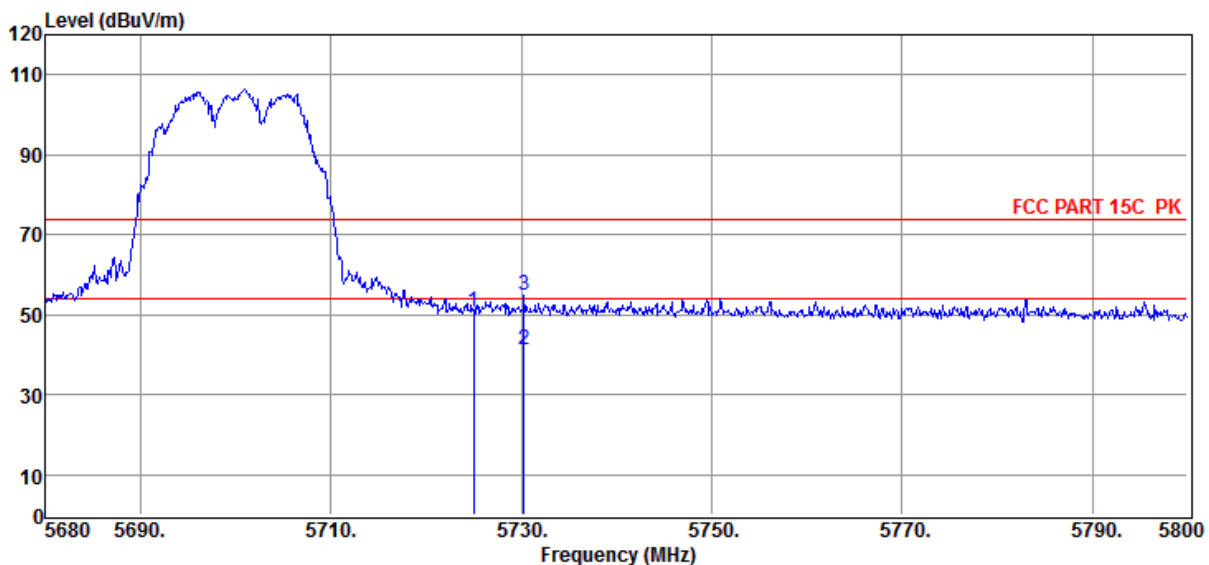
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11A 6M ANT1+2 5700MHz

Data: 75



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	45.22	35.27	12.84	50.87	74.00	-23.13	Peak	HORIZONTAL
2	5730.28	35.67	35.29	12.84	41.35	54.00	-12.65	Average	HORIZONTAL
3	5730.28	49.16	35.29	12.84	54.84	74.00	-19.16	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

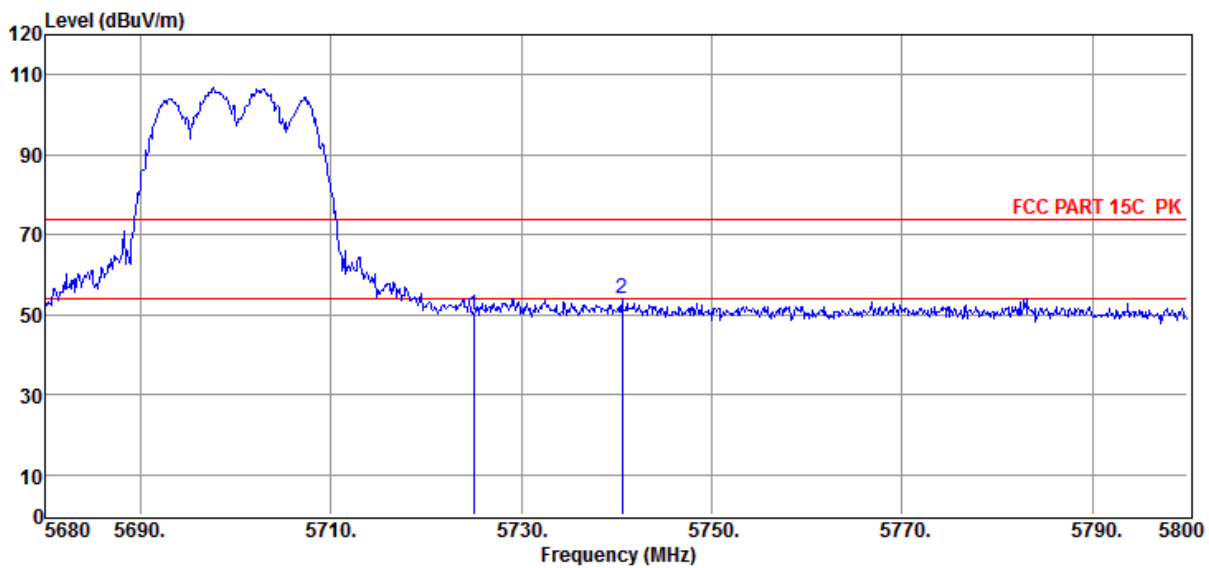
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11A 6M ANT1+2 5700MHz

Data: 76



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	44.43	35.27	12.84	50.08	74.00	-23.92	Peak	VERTICAL
2	5740.60	48.26	35.32	12.84	53.97	74.00	-20.03	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

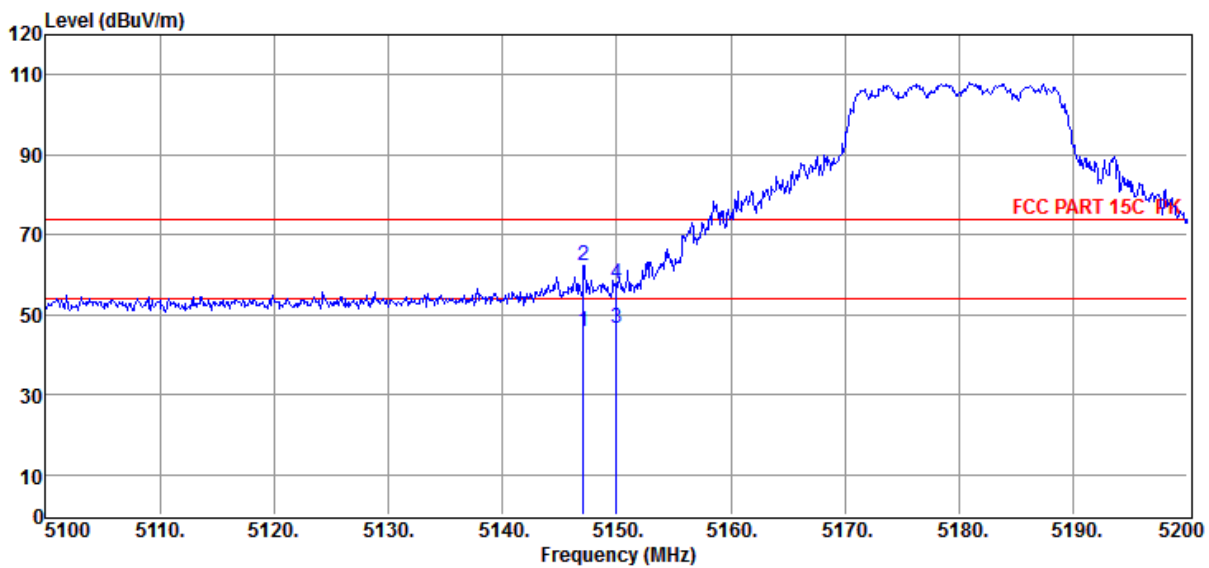
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N20 MCS0 ANT1+2 5180MHz

Data: 77



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5147.10	41.94	33.89	12.48	45.74	54.00	-8.26	Average	VERTICAL
2	5147.10	58.52	33.89	12.48	62.32	74.00	-11.68	Peak	VERTICAL
3	5150.00	42.74	33.90	12.49	46.56	54.00	-7.44	Average	VERTICAL
4	5150.00	53.77	33.90	12.49	57.59	74.00	-16.41	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

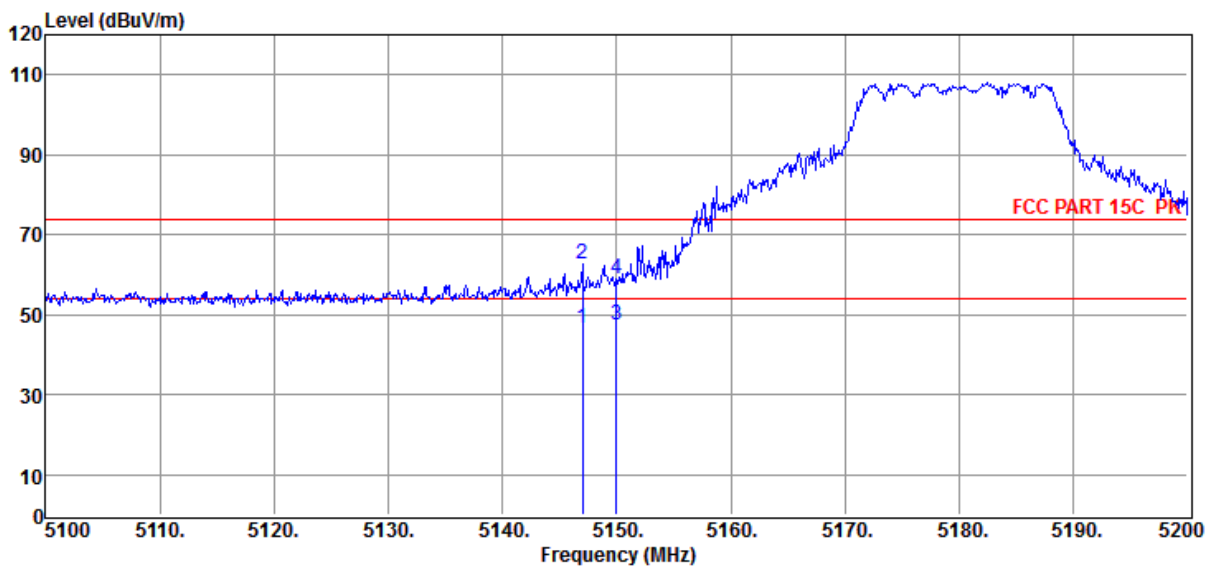
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N20 MCS0 ANT1+2 5180MHz

Data: 78



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5147.00	42.90	33.89	12.48	46.70	54.00	-7.30	Average	HORIZONTAL
2	5147.00	58.72	33.89	12.48	62.52	74.00	-11.48	Peak	HORIZONTAL
3	5150.00	43.69	33.90	12.49	47.51	54.00	-6.49	Average	HORIZONTAL
4	5150.00	54.97	33.90	12.49	58.79	74.00	-15.21	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

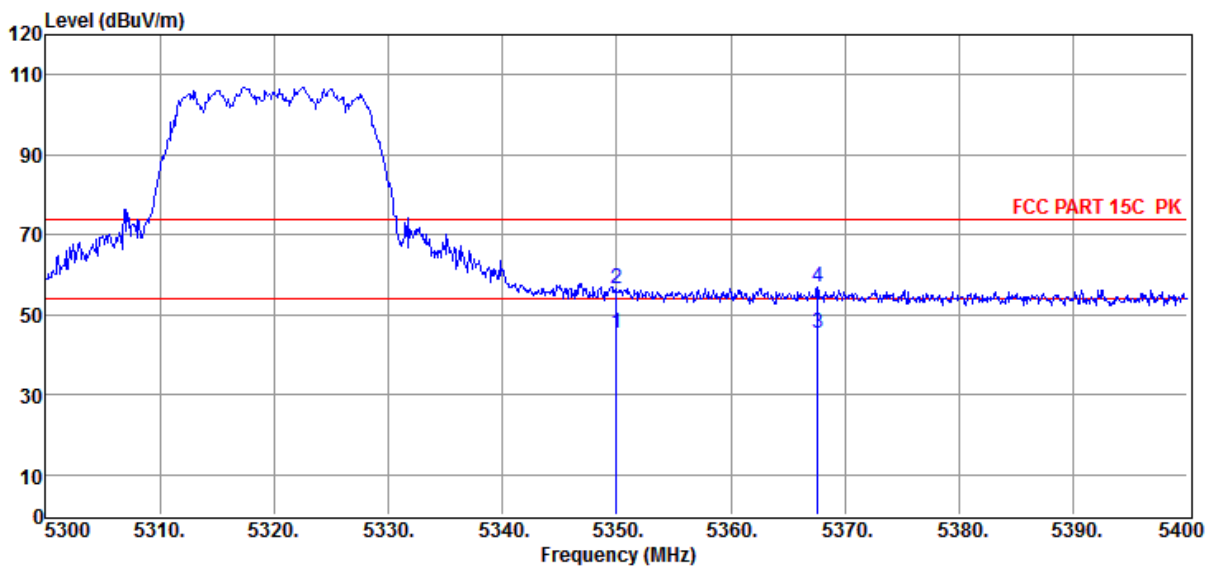
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N20 MCS0 ANT1+2 5320MHz

Data: 79



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	41.23	34.30	12.56	45.56	54.00	-8.44	Average	HORIZONTAL
2	5350.00	52.34	34.30	12.56	56.67	74.00	-17.33	Peak	HORIZONTAL
3	5367.60	41.14	34.34	12.58	45.53	54.00	-8.47	Average	HORIZONTAL
4	5367.60	52.65	34.34	12.58	57.04	74.00	-16.96	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

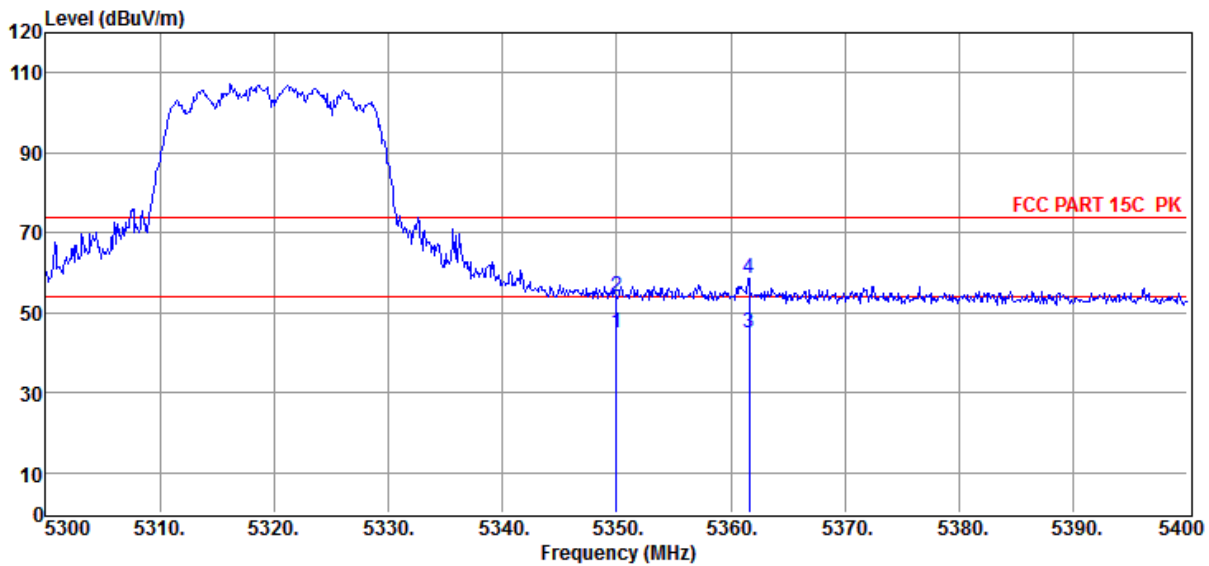
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N20 MCS0 ANT1+2 5320MHz

Data: 80



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	40.74	34.30	12.56	45.07	54.00	-8.93	Average	VERTICAL
2	5350.00	49.60	34.30	12.56	53.93	74.00	-20.07	Peak	VERTICAL
3	5361.60	40.41	34.32	12.57	44.77	54.00	-9.23	Average	VERTICAL
4	5361.60	54.39	34.32	12.57	58.75	74.00	-15.25	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

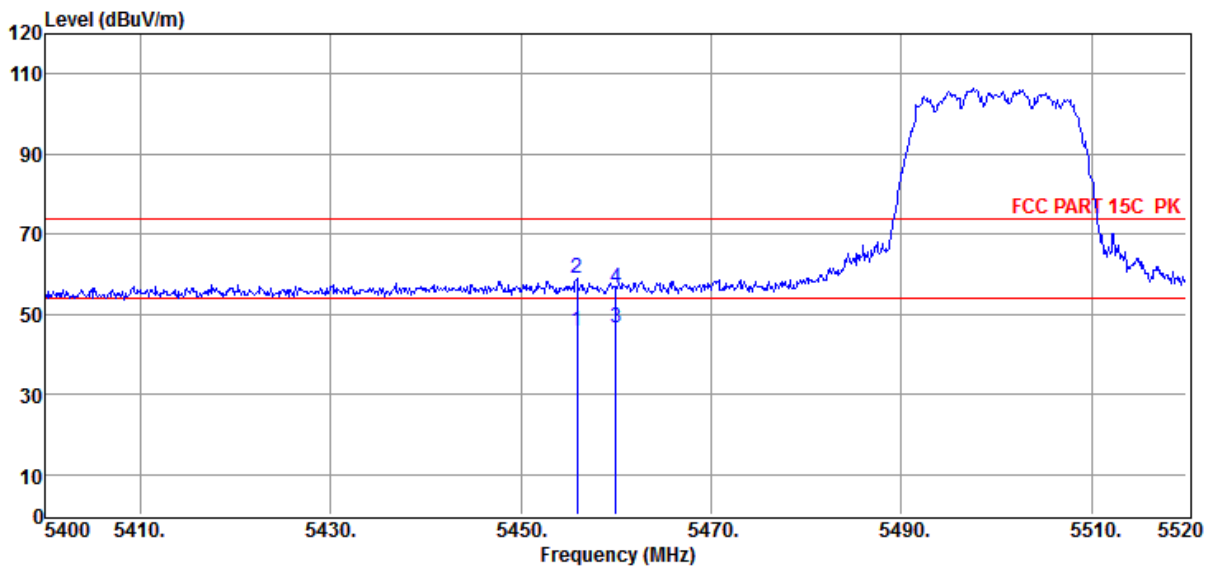
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11N20 MCS0 ANT1+2 5500MHz

Data: 81



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5455.92	40.96	34.51	12.72	45.68	54.00	-8.32	Average	HORIZONTAL
2	5455.92	54.26	34.51	12.72	58.98	74.00	-15.02	Peak	HORIZONTAL
3	5460.00	41.84	34.52	12.73	46.58	54.00	-7.42	Average	HORIZONTAL
4	5460.00	51.65	34.52	12.73	56.39	74.00	-17.61	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

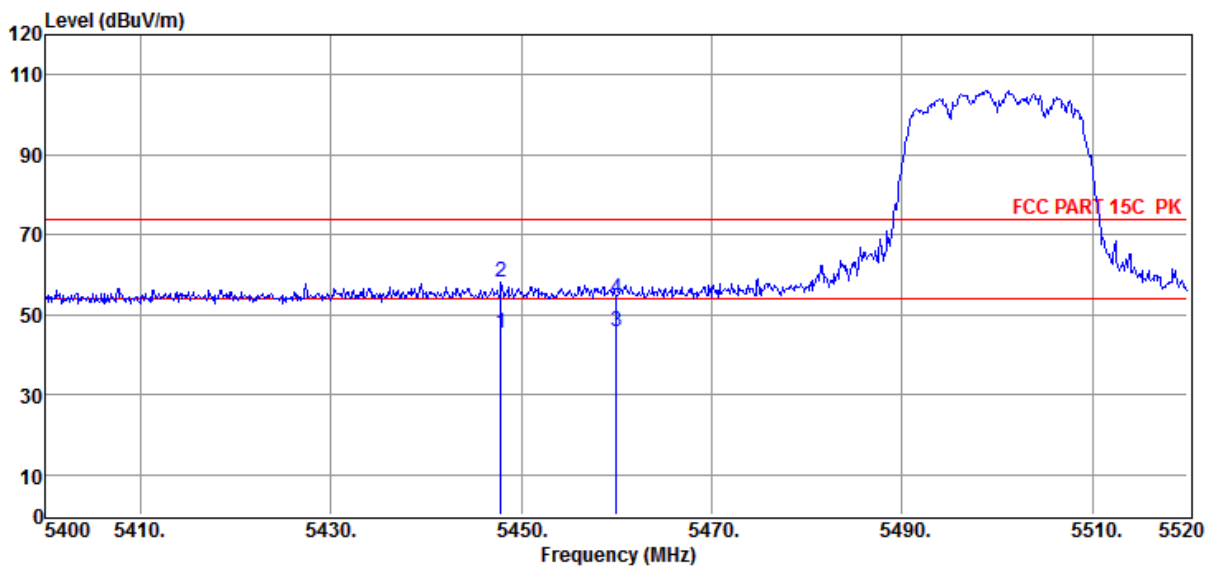
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N20 MCS0 ANT1+2 5500MHz

Data: 82



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5447.88	40.67	34.50	12.71	45.37	54.00	-8.63	Average	VERTICAL
2	5447.88	53.64	34.50	12.71	58.34	74.00	-15.66	Peak	VERTICAL
3	5460.00	41.05	34.52	12.73	45.79	74.00	-28.21	Peak	VERTICAL
4	5460.00	49.48	34.52	12.73	54.22	74.00	-19.78	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

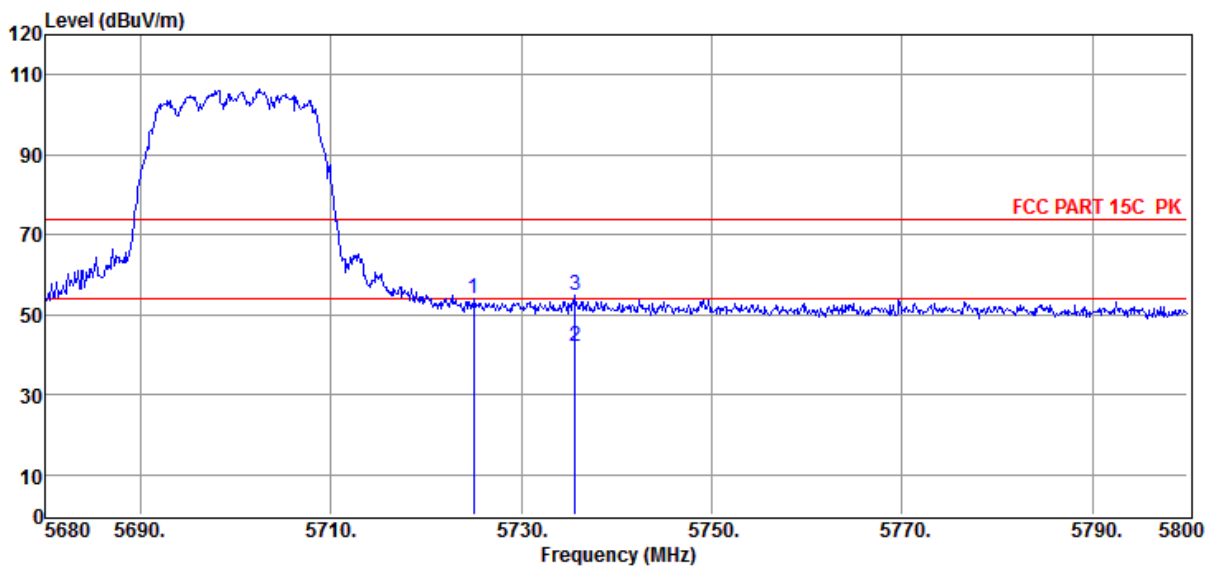
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N20 MCS0 ANT1+2 5700MHz

Data: 83



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	48.38	35.27	12.84	54.03	74.00	-19.97	Peak	HORIZONTAL
2	5735.68	36.45	35.31	12.84	42.15	54.00	-11.85	Average	HORIZONTAL
3	5735.68	49.17	35.31	12.84	54.87	74.00	-19.13	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

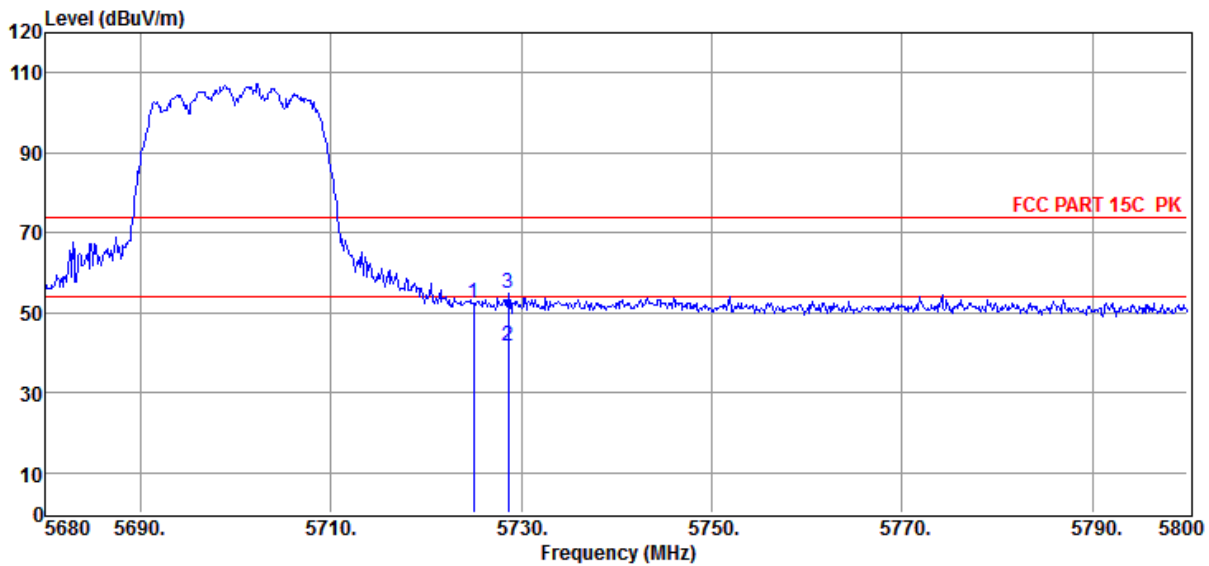
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N20 MCS0 ANT1+2 5700MHz

Data: 84



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	46.52	35.27	12.84	52.17	74.00	-21.83	Peak	VERTICAL
2	5728.60	36.14	35.29	12.84	41.82	54.00	-12.18	Average	VERTICAL
3	5728.60	49.13	35.29	12.84	54.81	74.00	-19.19	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

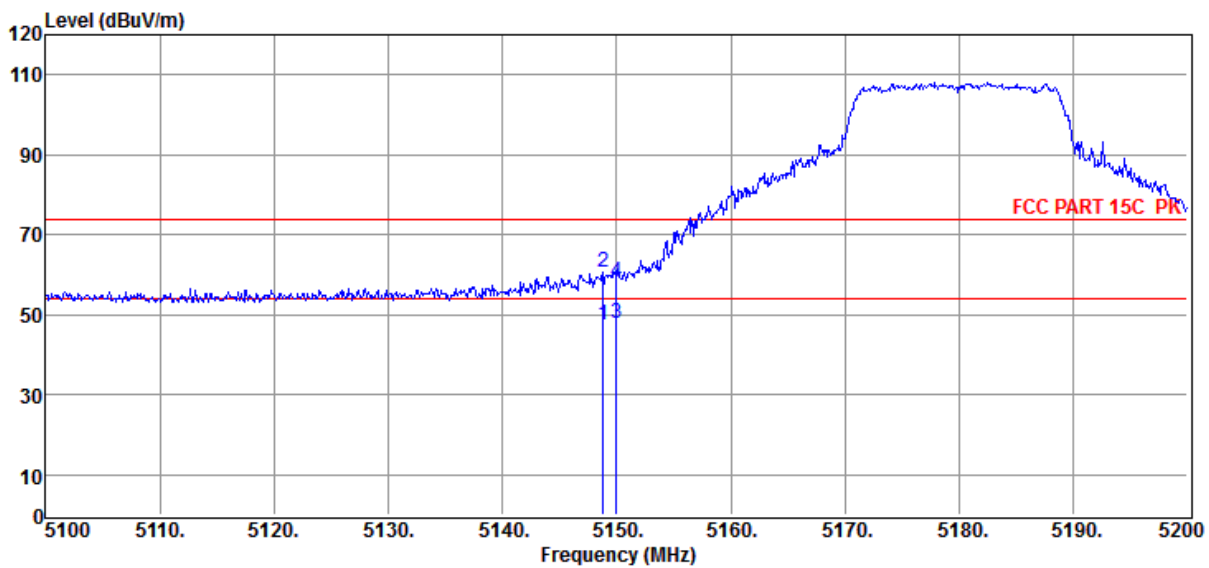
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5180MHz

Data: 85



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.80	43.43	33.90	12.48	47.24	54.00	-6.76	Average	HORIZONTAL
2	5148.80	56.92	33.90	12.48	60.73	74.00	-13.27	Peak	HORIZONTAL
3	5150.00	43.99	33.90	12.49	47.81	54.00	-6.19	Average	HORIZONTAL
4	5150.00	54.46	33.90	12.49	58.28	74.00	-15.72	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

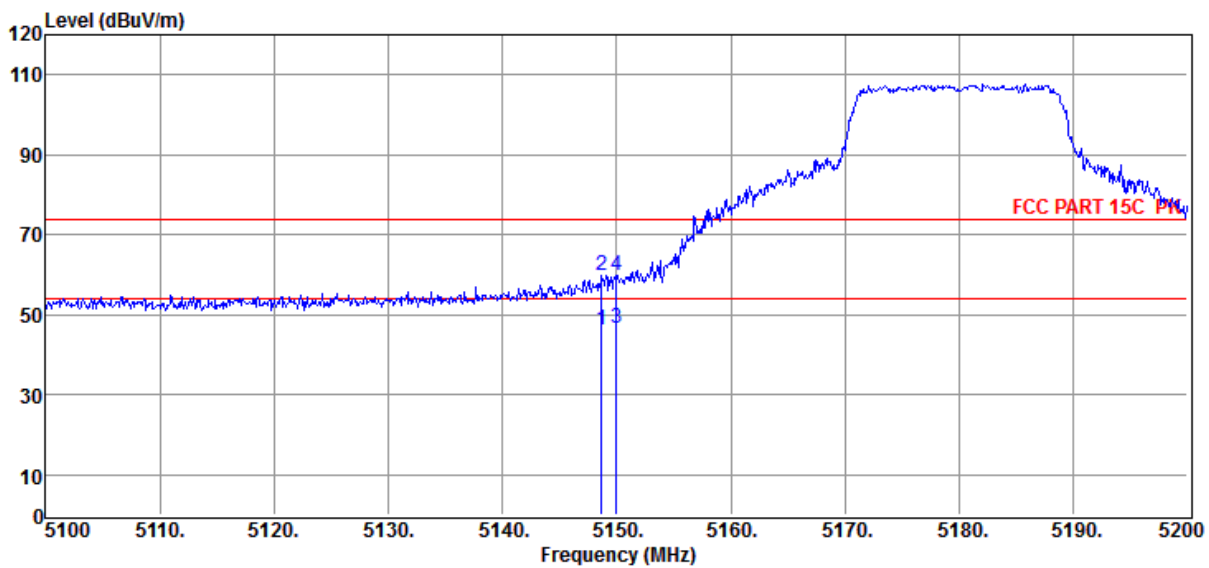
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5180MHz

Data: 86



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.70	42.20	33.90	12.48	46.01	54.00	-7.99	Average	VERTICAL
2	5148.70	56.07	33.90	12.48	59.88	74.00	-14.12	Peak	VERTICAL
3	5150.00	42.63	33.90	12.49	46.45	54.00	-7.55	Average	VERTICAL
4	5150.00	56.00	33.90	12.49	59.82	74.00	-14.18	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

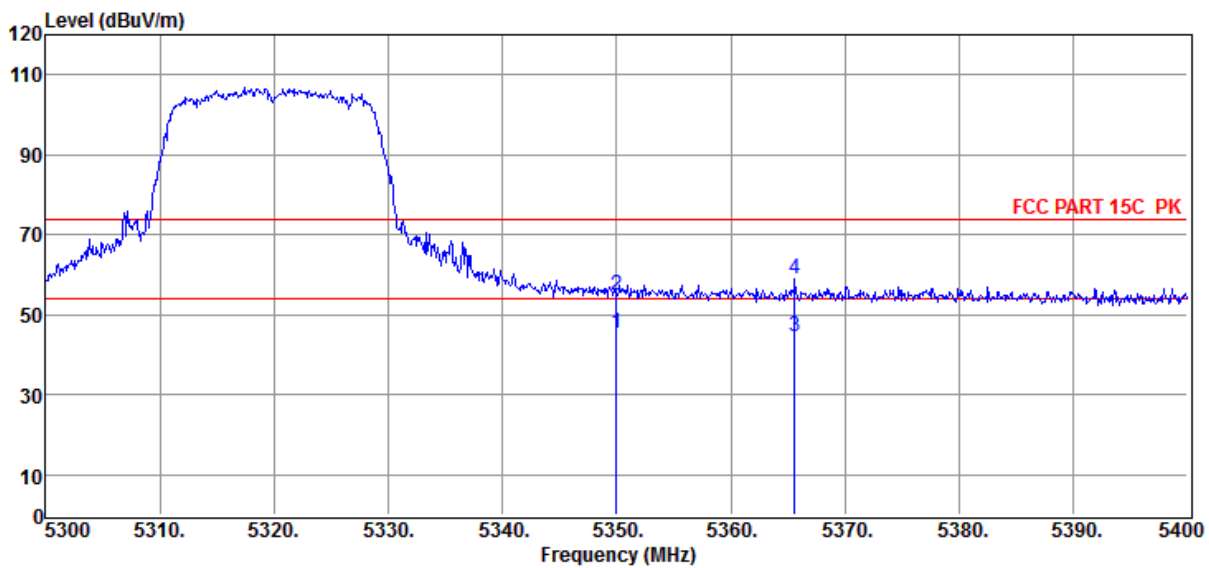
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5320MHz

Data: 87



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	40.95	34.30	12.56	45.28	54.00	-8.72	Average	HORIZONTAL
2	5350.00	50.59	34.30	12.56	54.92	74.00	-19.08	Peak	HORIZONTAL
3	5365.60	40.29	34.33	12.58	44.67	54.00	-9.33	Average	HORIZONTAL
4	5365.60	54.40	34.33	12.58	58.78	74.00	-15.22	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

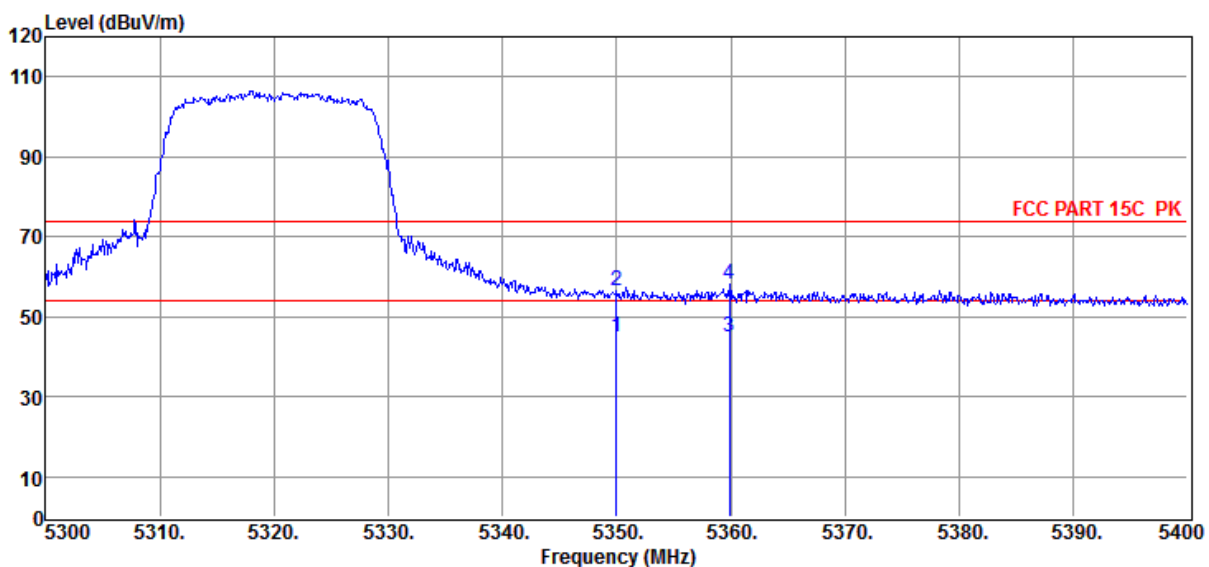
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5320MHz

Data: 88



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	40.77	34.30	12.56	45.10	54.00	-8.90	Average	VERTICAL
2	5350.00	52.10	34.30	12.56	56.43	74.00	-17.57	Peak	VERTICAL
3	5359.90	40.59	34.32	12.57	44.95	54.00	-9.05	Average	VERTICAL
4	5359.90	53.88	34.32	12.57	58.24	74.00	-15.76	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

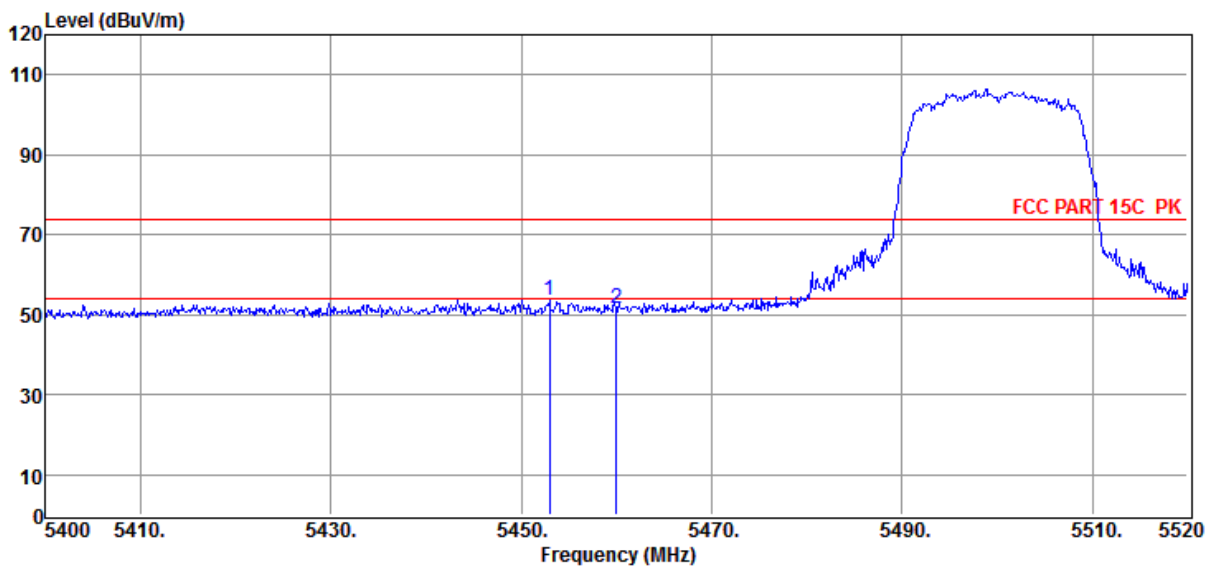
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5500MHz

Data: 89



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5452.92	48.79	34.51	12.72	53.51	74.00	-20.49	Peak	HORIZONTAL
2	5460.00	46.79	34.52	12.73	51.53	74.00	-22.47	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

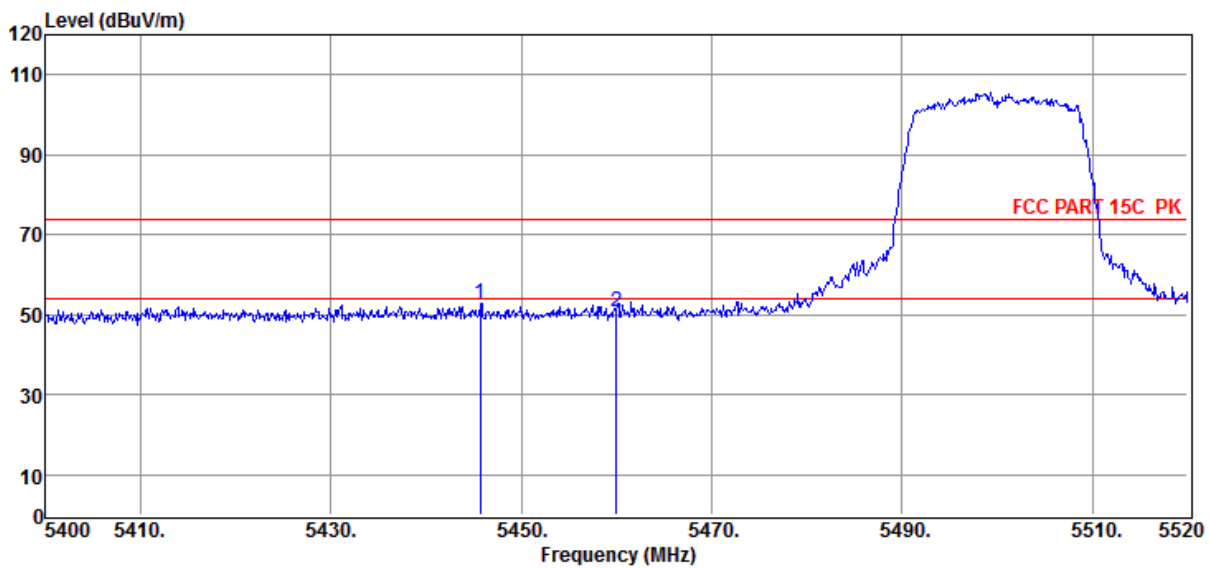
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5500MHz

Data: 90



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5445.72	47.99	34.49	12.70	52.67	74.00	-21.33	Peak	VERTICAL
2	5460.00	46.14	34.52	12.73	50.88	74.00	-23.12	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

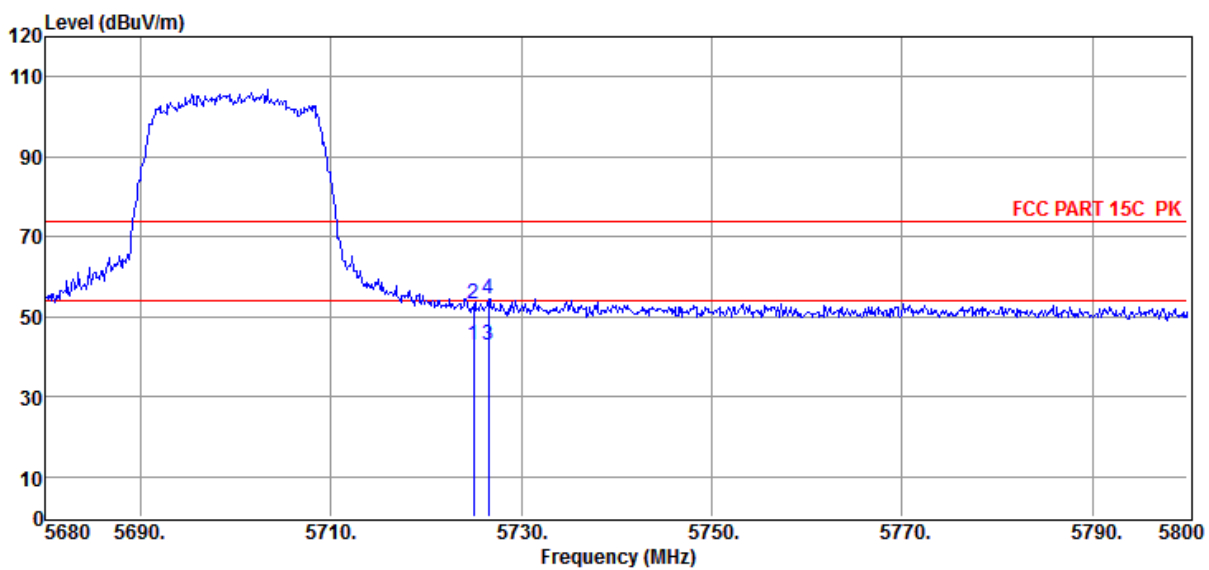
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5700MHz

Data: 91



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	37.11	35.27	12.84	42.76	54.00	-11.24	Average	HORIZONTAL
2	5725.00	47.46	35.27	12.84	53.11	74.00	-20.89	Peak	HORIZONTAL
3	5726.56	37.04	35.28	12.84	42.71	54.00	-11.29	Average	HORIZONTAL
4	5726.56	48.78	35.28	12.84	54.45	74.00	-19.55	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

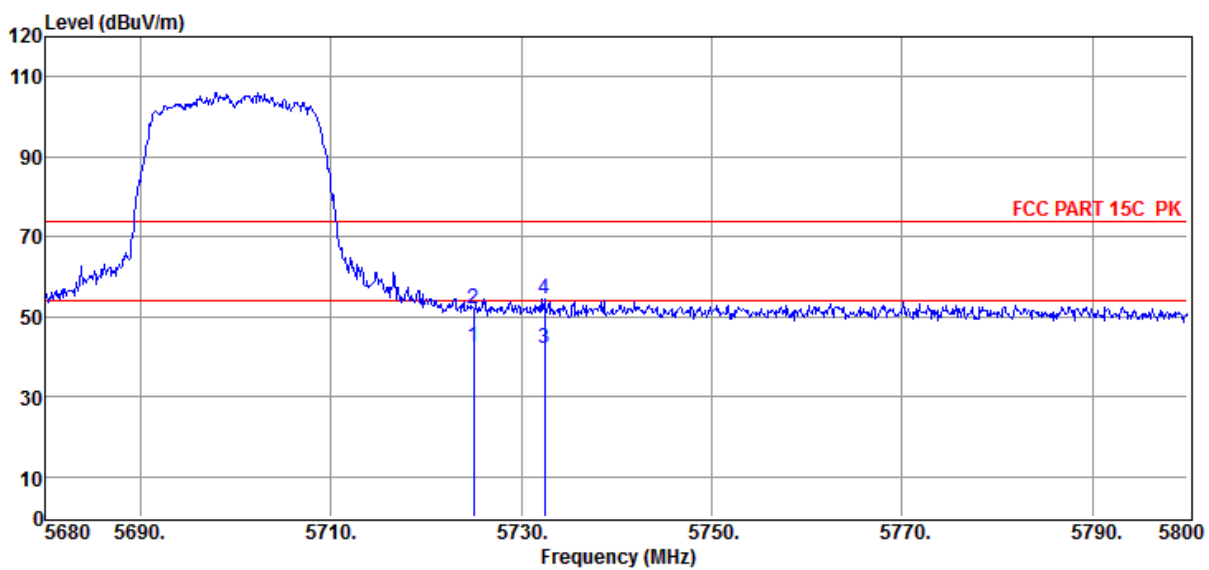
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC20 MCS0 ANT1+2 5700MHz

Data: 92



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	36.97	35.27	12.84	42.62	54.00	-11.38	Average	VERTICAL
2	5725.00	46.30	35.27	12.84	51.95	74.00	-22.05	Peak	VERTICAL
3	5732.44	36.58	35.30	12.84	42.27	54.00	-11.73	Average	VERTICAL
4	5732.44	48.82	35.30	12.84	54.51	74.00	-19.49	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

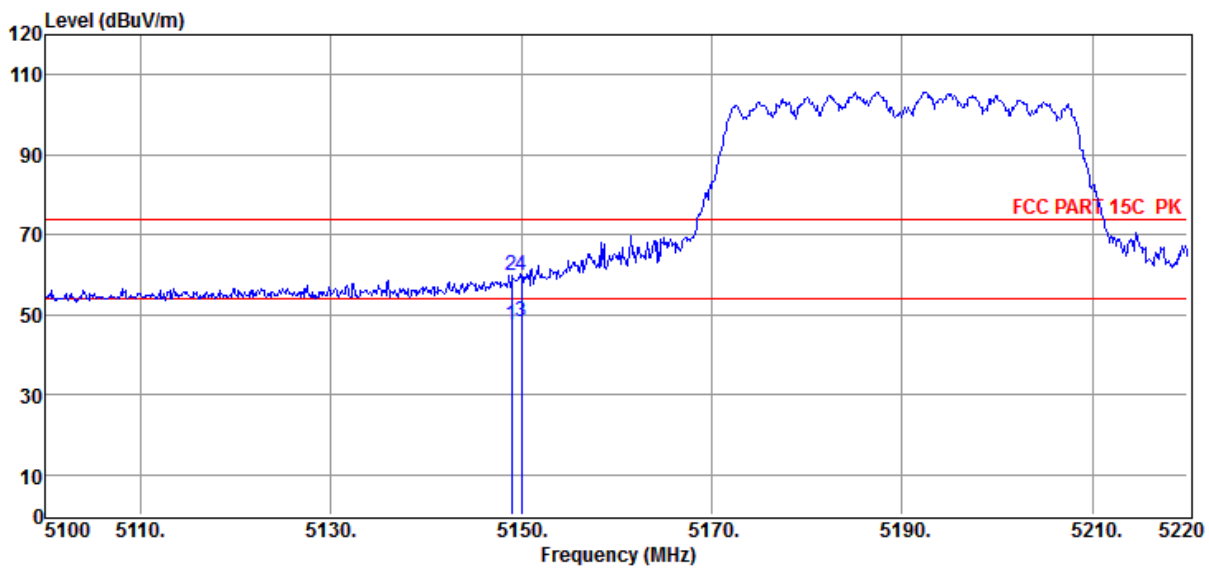
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5190MHz

Data: 93



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.96	43.74	33.90	12.48	47.55	54.00	-6.45	Average	HORIZONTAL
2	5148.96	55.96	33.90	12.48	59.77	74.00	-14.23	Peak	HORIZONTAL
3	5150.04	44.44	33.90	12.49	48.26	54.00	-5.74	Average	HORIZONTAL
4	5150.04	55.77	33.90	12.49	59.59	74.00	-14.41	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

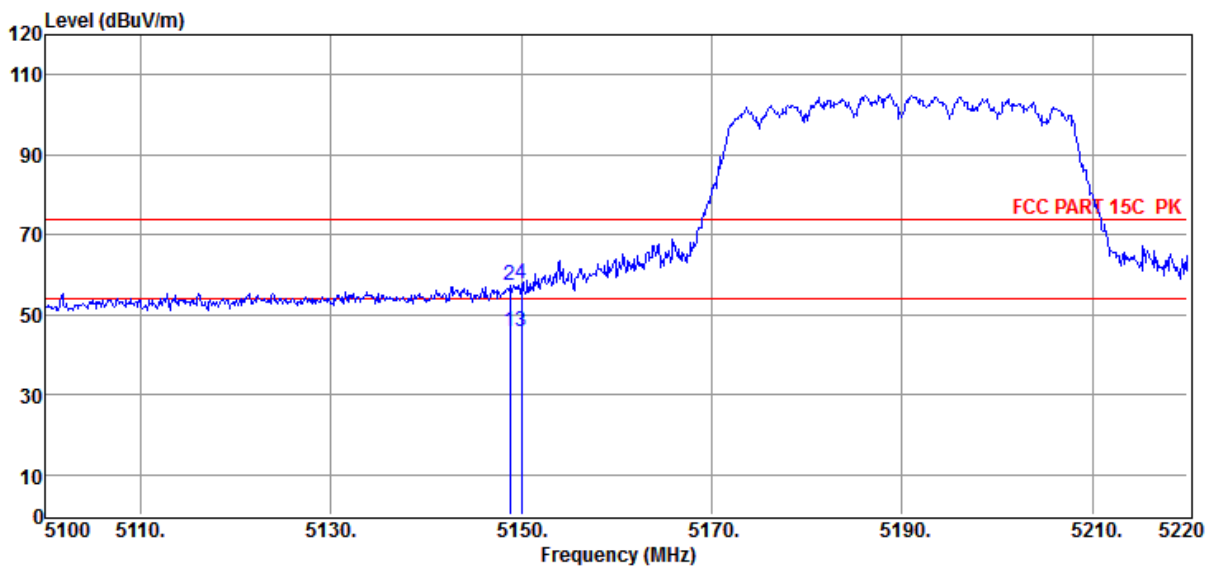
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5190MHz

Data: 94



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.84	41.88	33.90	12.48	45.69	54.00	-8.31	Average	VERTICAL
2	5148.84	53.38	33.90	12.48	57.19	74.00	-16.81	Peak	VERTICAL
3	5150.04	41.82	33.90	12.49	45.64	54.00	-8.36	Average	VERTICAL
4	5150.04	53.82	33.90	12.49	57.64	74.00	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

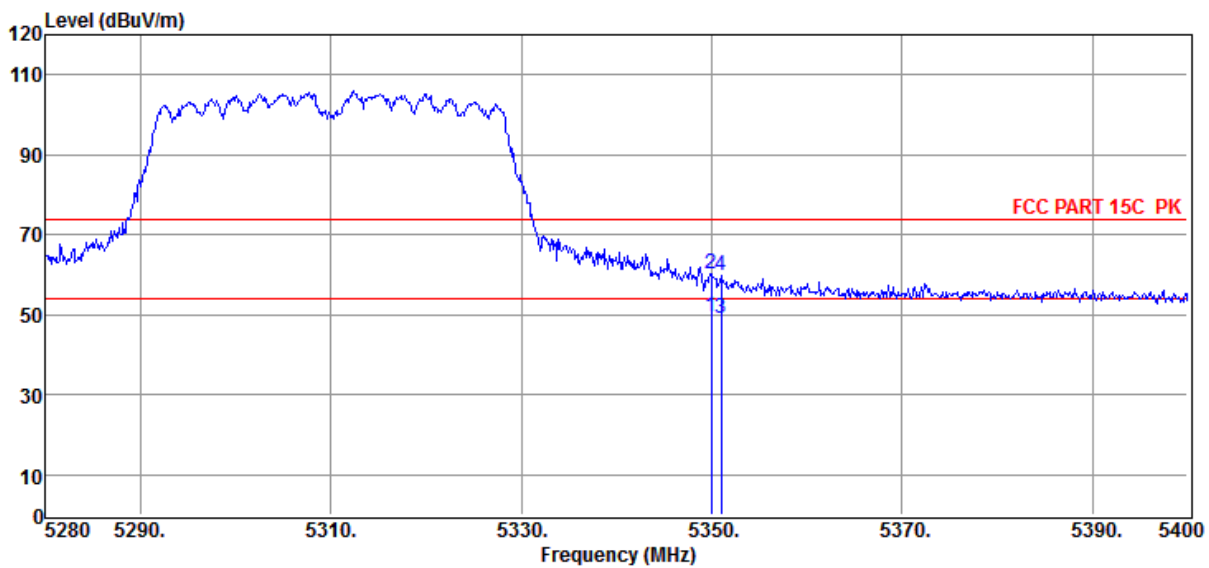
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5310MHz

Data: 95



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	45.32	34.30	12.56	49.65	54.00	-4.35	Average	HORIZONTAL
2	5350.00	55.95	34.30	12.56	60.28	74.00	-13.72	Peak	HORIZONTAL
3	5351.04	44.67	34.30	12.56	49.00	54.00	-5.00	Average	HORIZONTAL
4	5351.04	55.32	34.30	12.56	59.65	74.00	-14.35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

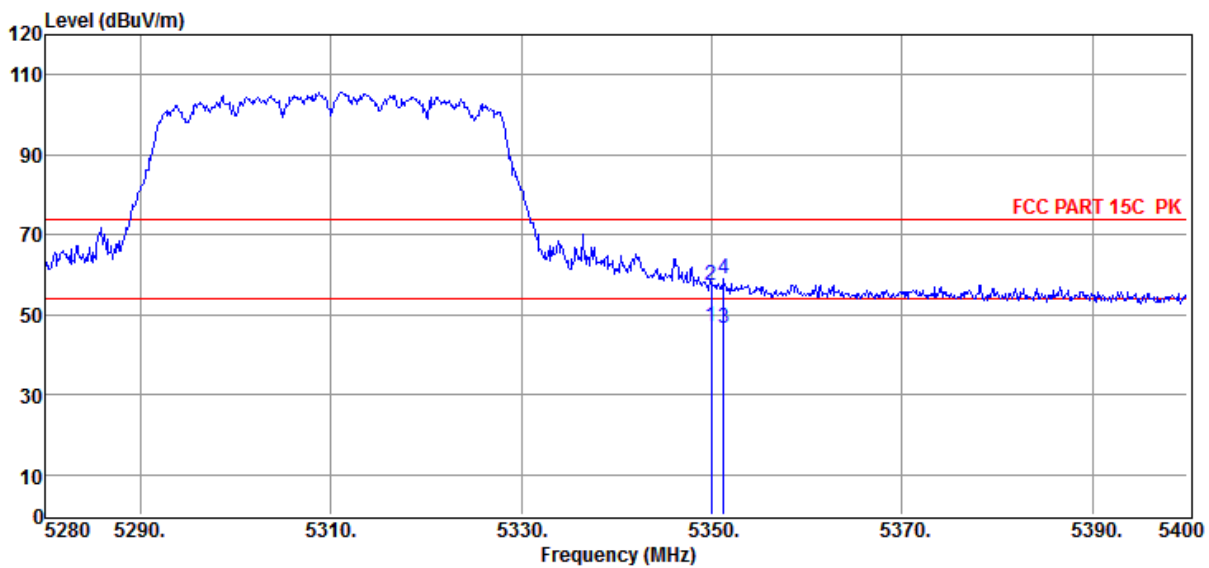
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5310MHz

Data: 96



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	42.53	34.30	12.56	46.86	54.00	-7.14	Average	VERTICAL
2	5350.00	52.91	34.30	12.56	57.24	74.00	-16.76	Peak	VERTICAL
3	5351.28	42.21	34.30	12.56	46.54	54.00	-7.46	Average	VERTICAL
4	5351.28	54.44	34.30	12.56	58.77	74.00	-15.23	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

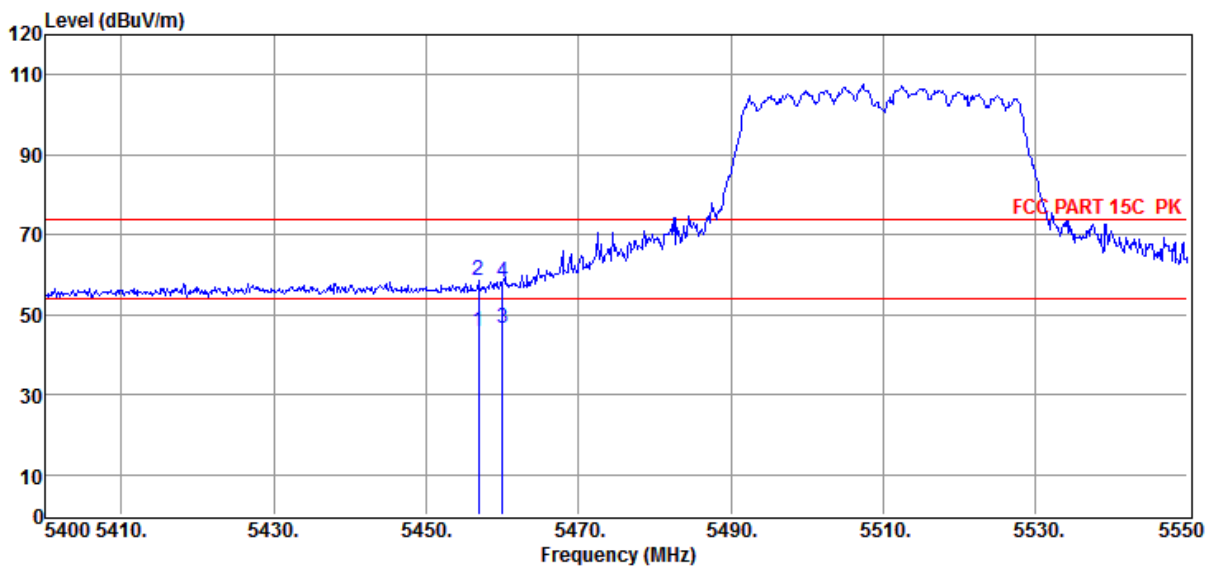
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5510MHz

Data: 97



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5456.85	41.05	34.51	12.72	45.77	54.00	-8.23	Average	HORIZONTAL
2	5456.85	53.65	34.51	12.72	58.37	74.00	-15.63	Peak	HORIZONTAL
3	5460.00	41.83	34.52	12.73	46.57	54.00	-7.43	Average	HORIZONTAL
4	5460.00	53.43	34.52	12.73	58.17	74.00	-15.83	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

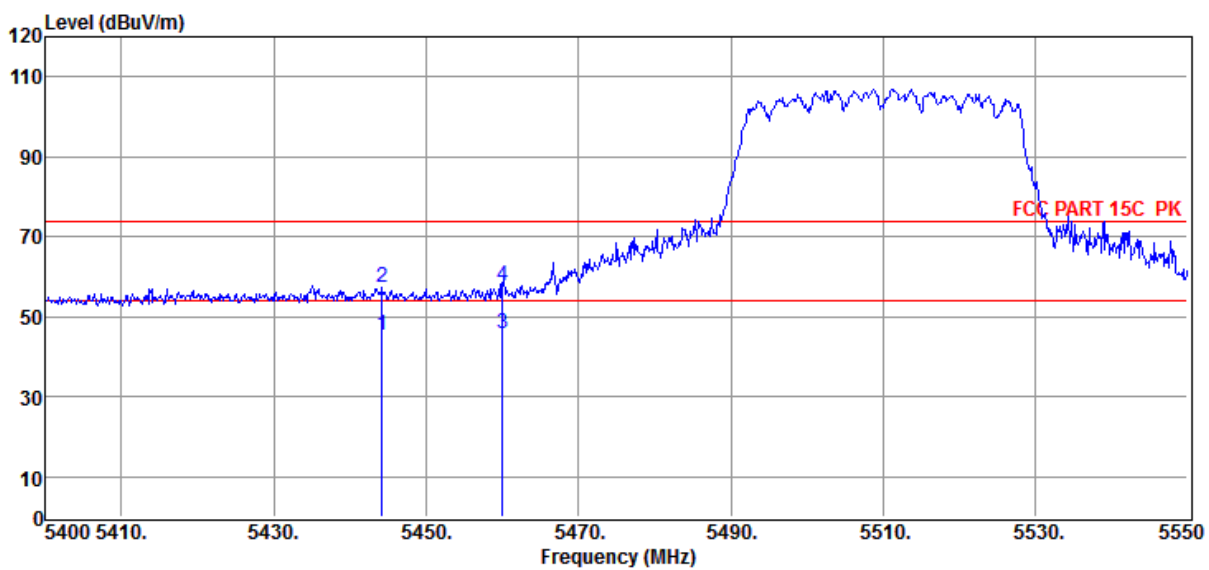
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5510MHz

Data: 98



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5444.25	40.74	34.49	12.70	45.42	54.00	-8.58	Average	VERTICAL
2	5444.25	52.54	34.49	12.70	57.22	74.00	-16.78	Peak	VERTICAL
3	5460.00	41.21	34.52	12.73	45.95	54.00	-8.05	Average	VERTICAL
4	5460.00	52.83	34.52	12.73	57.57	74.00	-16.43	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

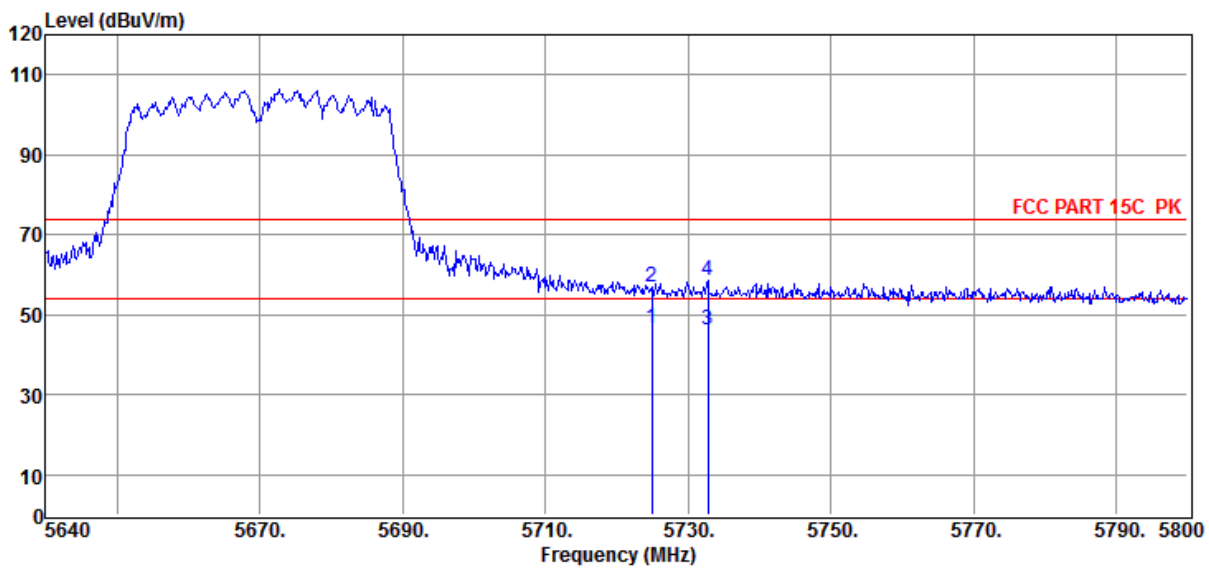
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5670MHz

Data: 99



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	40.87	35.27	12.84	46.52	54.00	-7.48	Average	HORIZONTAL
2	5725.00	51.06	35.27	12.84	56.71	74.00	-17.29	Peak	HORIZONTAL
3	5732.80	40.32	35.30	12.84	46.01	54.00	-7.99	Average	HORIZONTAL
4	5732.80	52.77	35.30	12.84	58.46	74.00	-15.54	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

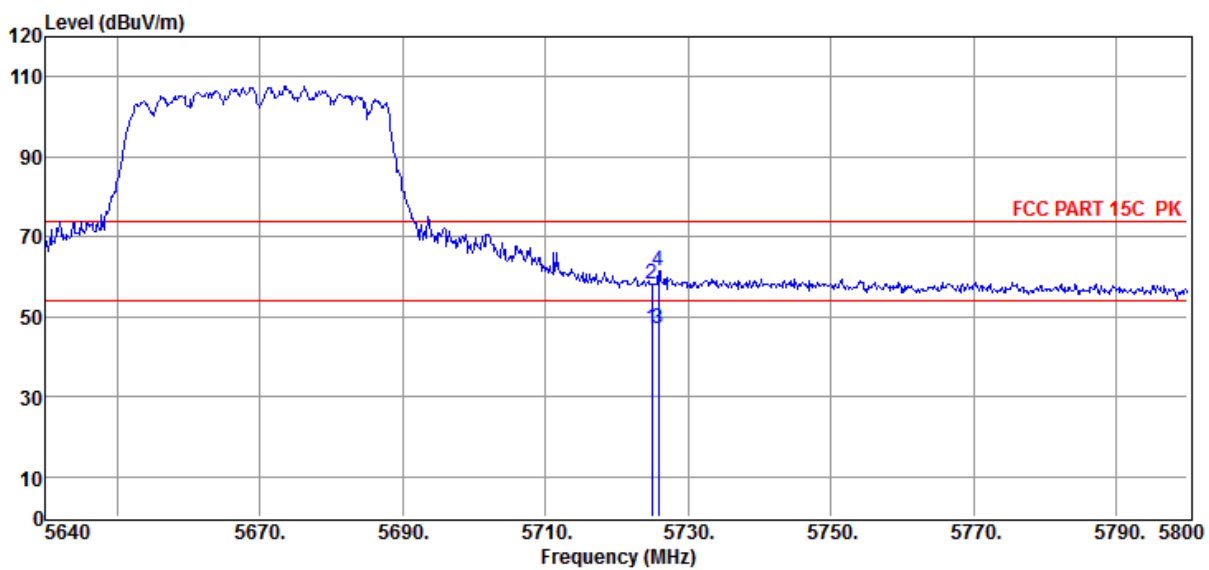
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11N40 MCS0 ANT1+2 5670MHz

Data: 100



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5724.96	41.33	35.27	12.84	46.98	54.00	-7.02	Average	VERTICAL
2	5724.96	52.54	35.27	12.84	58.19	74.00	-15.81	Peak	VERTICAL
3	5725.92	41.36	35.28	12.84	47.03	54.00	-6.97	Average	VERTICAL
4	5725.92	55.92	35.28	12.84	61.59	74.00	-12.41	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

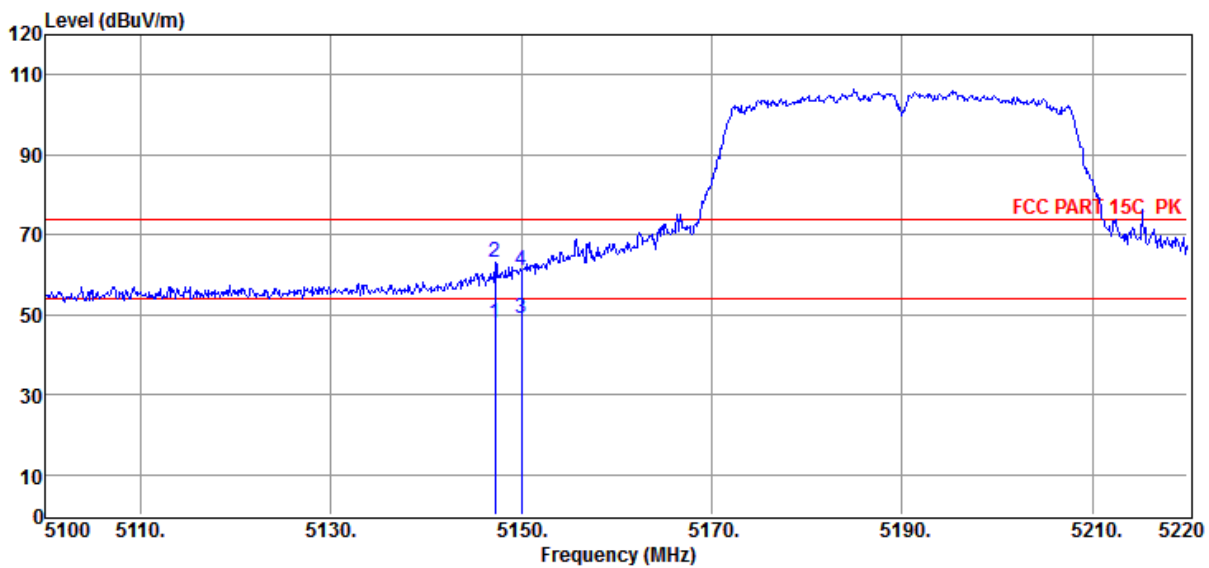
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5190MHz

Data: 101



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5147.28	44.16	33.89	12.48	47.96	54.00	-6.04	Average	HORIZONTAL
2	5147.28	59.34	33.89	12.48	63.14	74.00	-10.86	Peak	HORIZONTAL
3	5150.04	45.30	33.90	12.49	49.12	54.00	-4.88	Average	HORIZONTAL
4	5150.04	57.21	33.90	12.49	61.03	74.00	-12.97	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

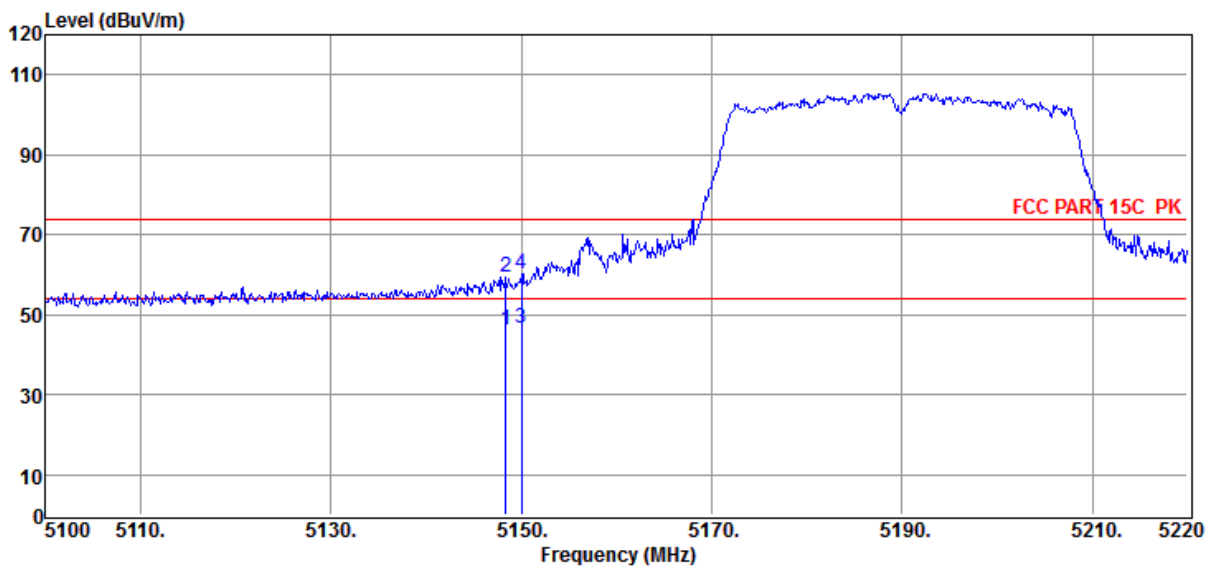
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5190MHz

Data: 102



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.36	42.49	33.90	12.48	46.30	54.00	-7.70	Average	VERTICAL
2	5148.36	55.67	33.90	12.48	59.48	74.00	-14.52	Peak	VERTICAL
3	5150.04	42.65	33.90	12.49	46.47	54.00	-7.53	Average	VERTICAL
4	5150.04	56.39	33.90	12.49	60.21	74.00	-13.79	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

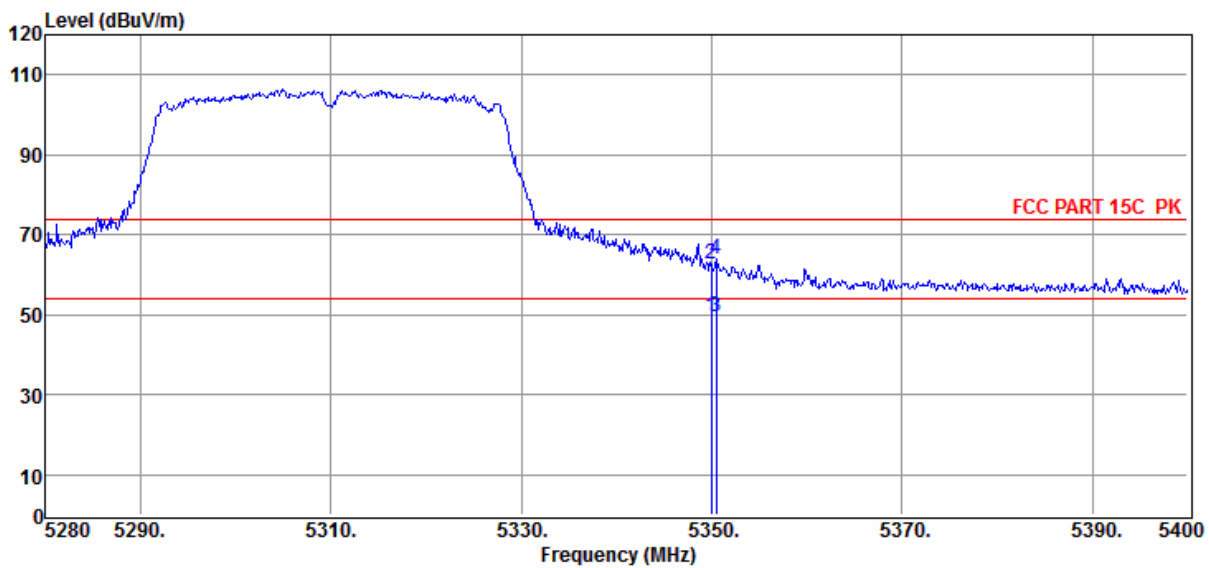
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5310MHz

Data: 103



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5349.96	45.09	34.30	12.56	49.42	54.00	-4.58	Average	HORIZONTAL
2	5349.96	58.27	34.30	12.56	62.60	74.00	-11.40	Peak	HORIZONTAL
3	5350.44	45.09	34.30	12.56	49.42	54.00	-4.58	Average	HORIZONTAL
4	5350.44	59.56	34.30	12.56	63.89	74.00	-10.11	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

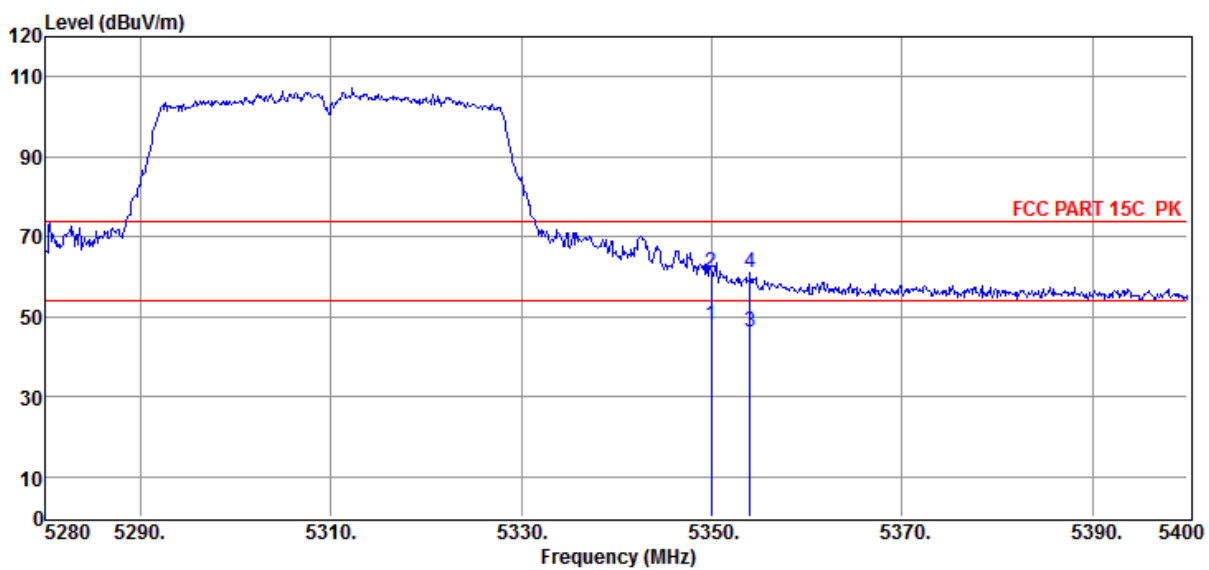
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5310MHz

Data: 104



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5349.96	43.35	34.30	12.56	47.68	54.00	-6.32	Average	VERTICAL
2	5349.96	56.66	34.30	12.56	60.99	74.00	-13.01	Peak	VERTICAL
3	5354.04	41.98	34.31	12.56	46.32	54.00	-7.68	Average	VERTICAL
4	5354.04	56.54	34.31	12.56	60.88	74.00	-13.12	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

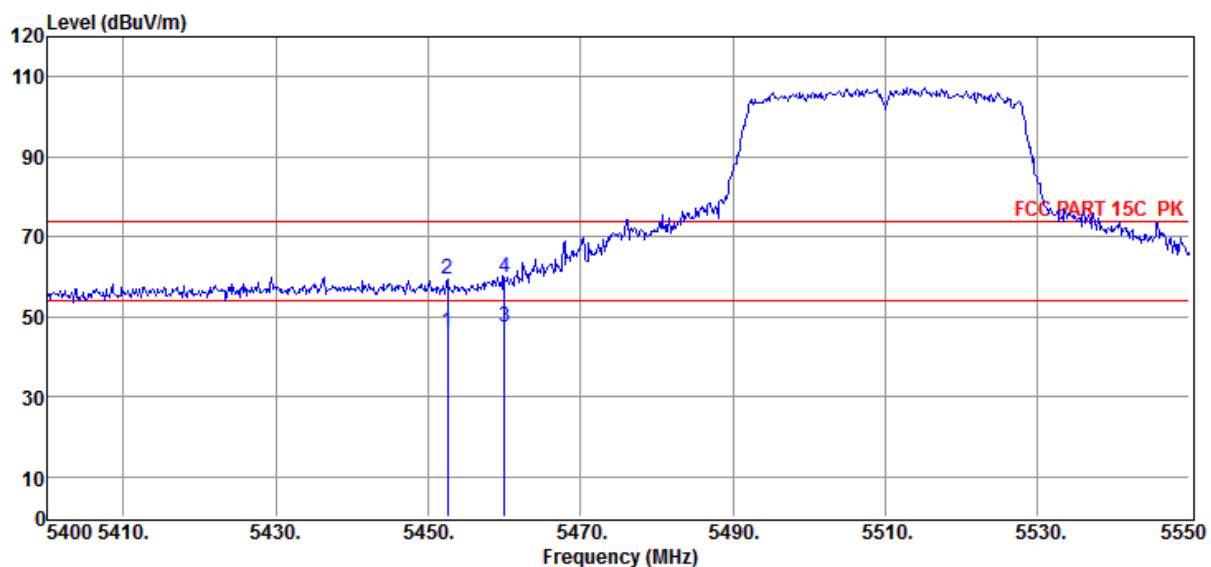
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5510MHz

Data: 105



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5452.50	41.57	34.50	12.71	46.27	54.00	-7.73	Average	HORIZONTAL
2	5452.50	54.68	34.50	12.71	59.38	74.00	-14.62	Peak	HORIZONTAL
3	5460.00	42.48	34.52	12.73	47.22	54.00	-6.78	Average	HORIZONTAL
4	5460.00	54.91	34.52	12.73	59.65	74.00	-14.35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

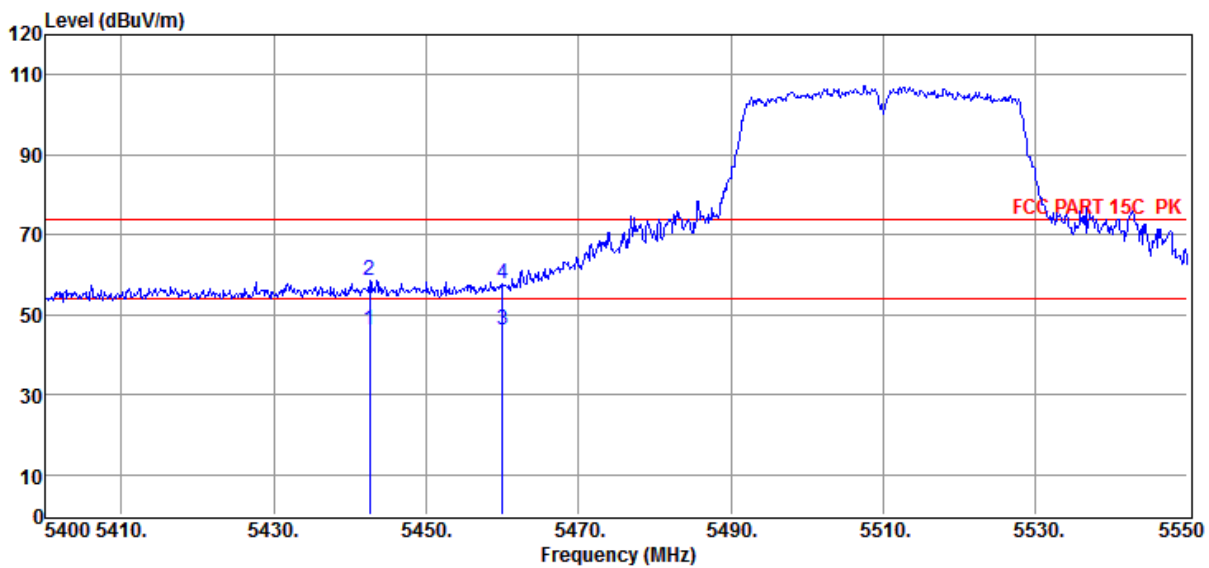
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5510MHz

Data: 106



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5442.60	41.49	34.49	12.70	46.17	54.00	-7.83	Average	VERTICAL
2	5442.60	53.80	34.49	12.70	58.48	74.00	-15.52	Peak	VERTICAL
3	5460.00	41.54	34.52	12.73	46.28	54.00	-7.72	Average	VERTICAL
4	5460.00	52.92	34.52	12.73	57.66	74.00	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

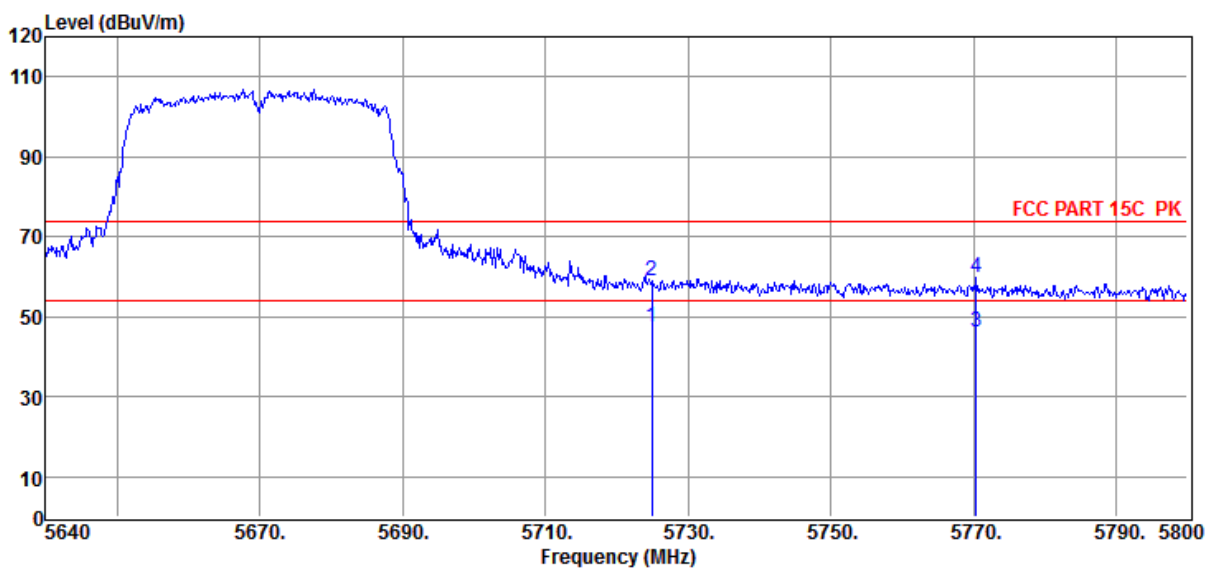
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5670MHz

Data: 107



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5724.96	41.71	35.27	12.84	47.36	54.00	-6.64	Average	HORIZONTAL
2	5724.96	53.16	35.27	12.84	58.81	74.00	-15.19	Peak	HORIZONTAL
3	5770.40	40.52	35.41	12.85	46.33	54.00	-7.67	Average	HORIZONTAL
4	5770.40	54.06	35.41	12.85	59.87	74.00	-14.13	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

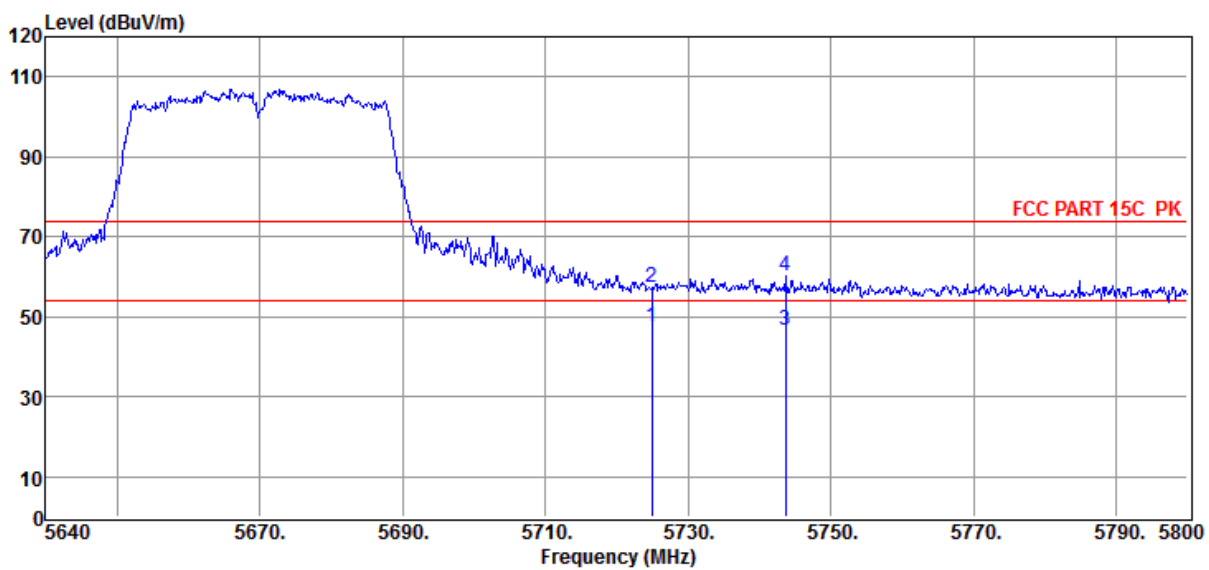
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC40 MCS0 ANT1+2 5670MHz

Data: 108



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	41.76	35.27	12.84	47.41	54.00	-6.59	Average	VERTICAL
2	5725.00	51.77	35.27	12.84	57.42	74.00	-16.58	Peak	VERTICAL
3	5743.68	40.85	35.33	12.84	46.57	54.00	-7.43	Average	VERTICAL
4	5743.68	54.62	35.33	12.84	60.34	74.00	-13.66	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

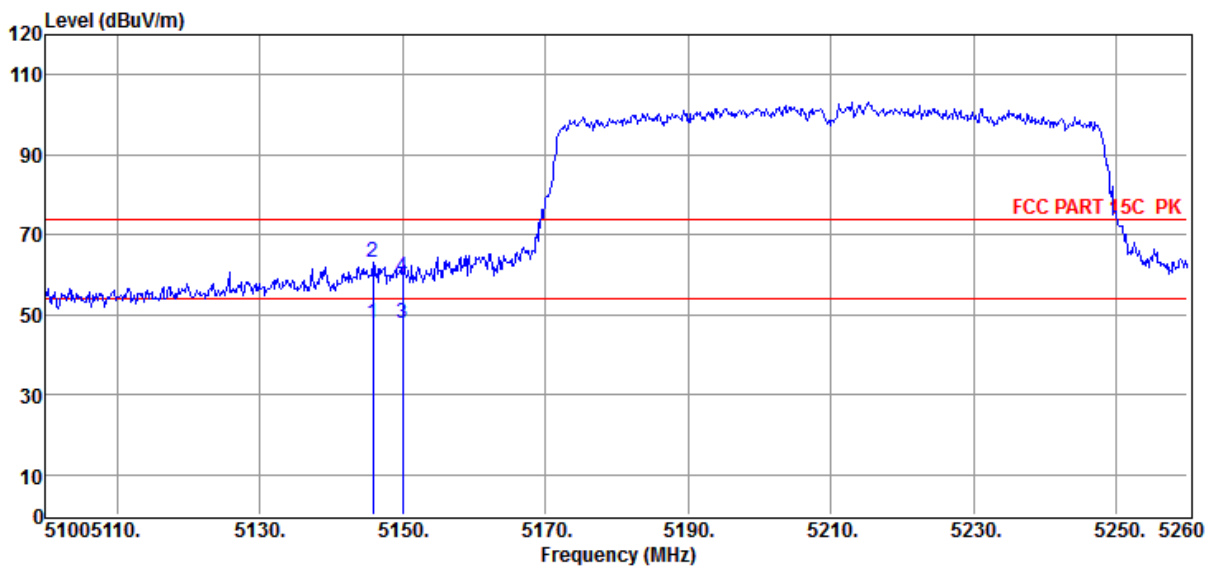
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5210MHz

Data: 109



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5145.92	43.90	33.89	12.48	47.70	54.00	-6.30	Average	HORIZONTAL
2	5145.92	59.09	33.89	12.48	62.89	74.00	-11.11	Peak	HORIZONTAL
3	5150.08	44.10	33.90	12.49	47.92	54.00	-6.08	Average	HORIZONTAL
4	5150.08	55.54	33.90	12.49	59.36	74.00	-14.64	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

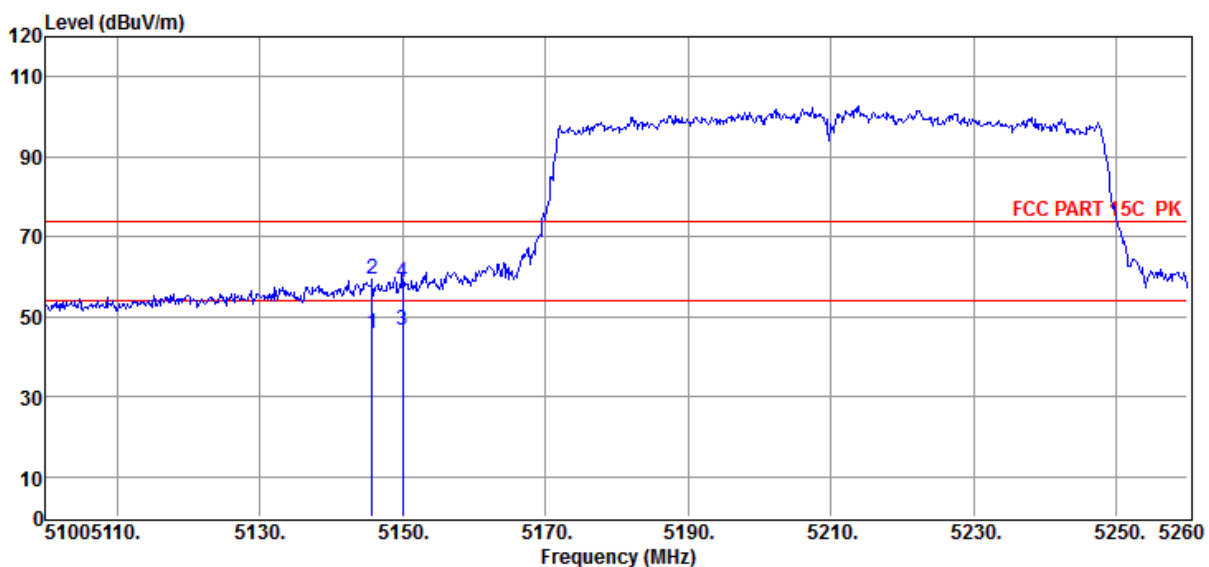
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5210MHz

Data: 110



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5145.76	41.97	33.89	12.48	45.77	54.00	-8.23	Average	VERTICAL
2	5145.76	55.46	33.89	12.48	59.26	74.00	-14.74	Peak	VERTICAL
3	5150.08	42.87	33.90	12.49	46.69	54.00	-7.31	Average	VERTICAL
4	5150.08	54.58	33.90	12.49	58.40	74.00	-15.60	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

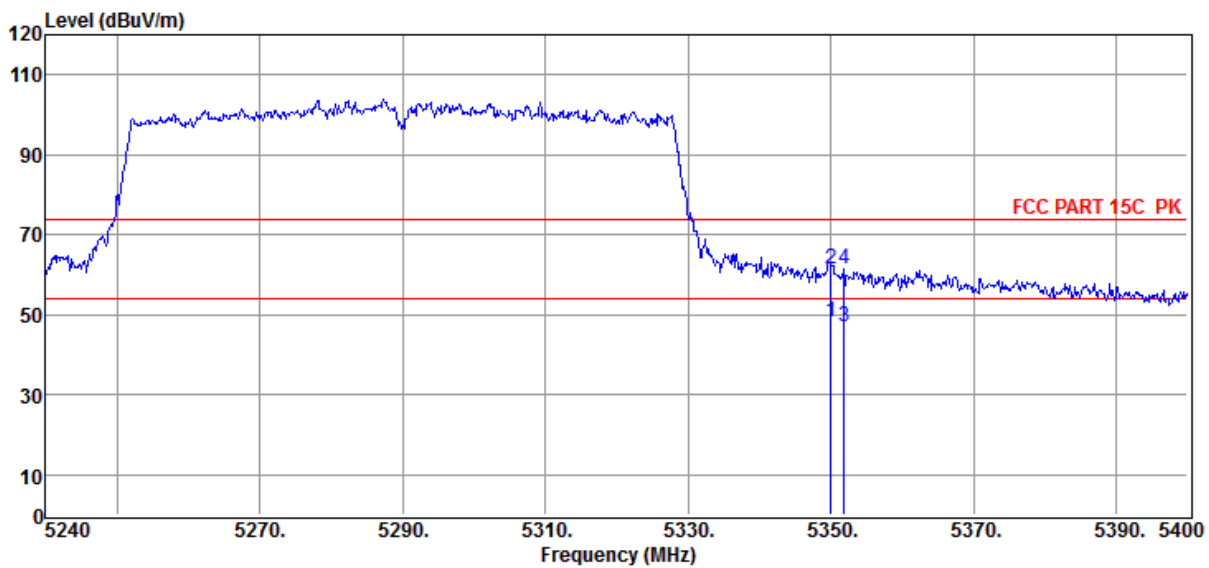
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5290MHz

Data: 111



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	43.98	34.30	12.56	48.31	54.00	-5.69	Average	VERTICAL
2	5350.00	57.28	34.30	12.56	61.61	74.00	-12.39	Peak	VERTICAL
3	5351.84	42.81	34.30	12.56	47.14	54.00	-6.86	Average	VERTICAL
4	5351.84	57.10	34.30	12.56	61.43	74.00	-12.57	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

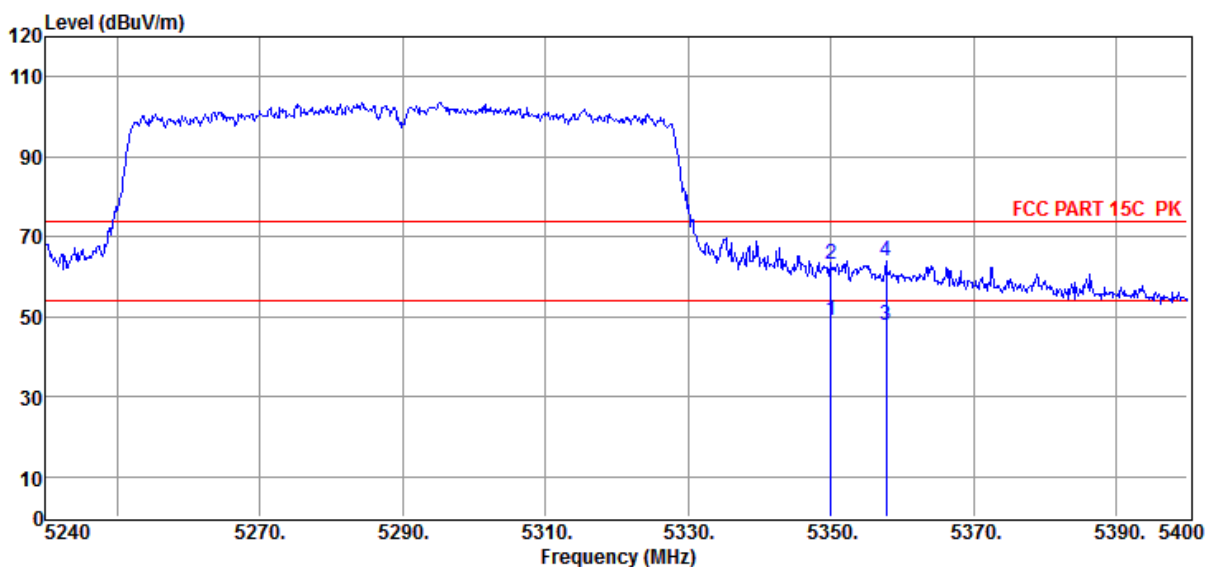
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5290MHz

Data: 112



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	44.93	34.30	12.56	49.26	54.00	-4.74	Average	HORIZONTAL
2	5350.08	58.81	34.30	12.56	63.14	74.00	-10.86	Peak	HORIZONTAL
3	5357.76	43.54	34.32	12.57	47.90	54.00	-6.10	Average	HORIZONTAL
4	5357.76	59.74	34.32	12.57	64.10	74.00	-9.90	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

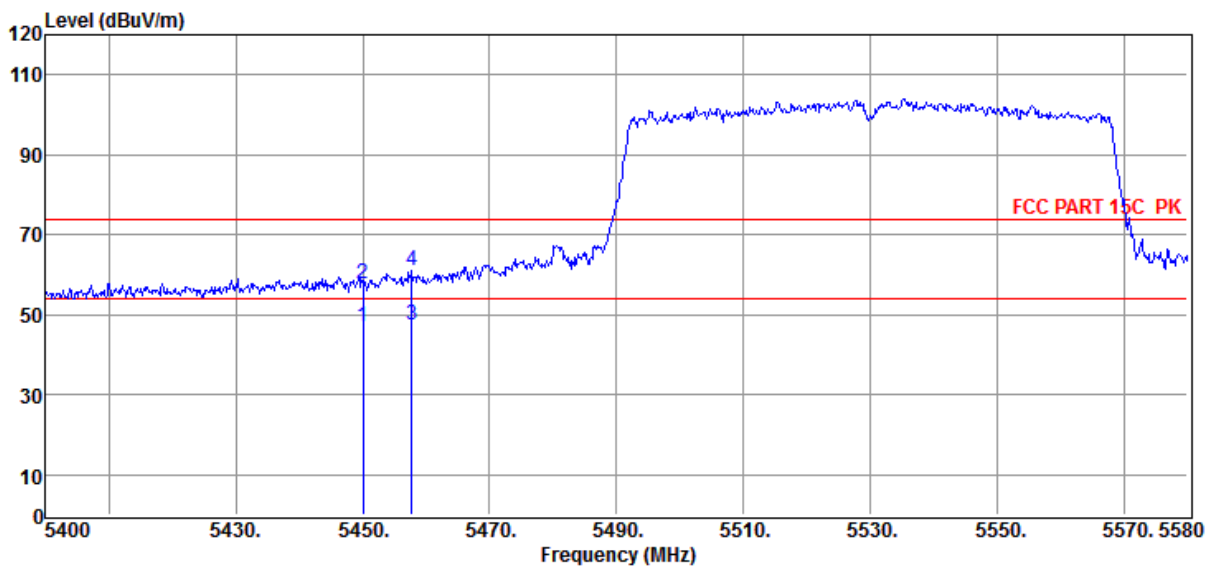
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter Test Mode : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5530MHz

Data: 113



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5450.00	42.47	34.50	12.71	47.17	54.00	-6.83	Average	HORIZONTAL
2	5450.00	53.18	34.50	12.71	57.88	74.00	-16.12	Peak	HORIZONTAL
3	5457.78	42.54	34.52	12.72	47.27	54.00	-6.73	Average	HORIZONTAL
4	5457.78	56.35	34.52	12.72	61.08	74.00	-12.92	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

EUT : Wireless Bridge

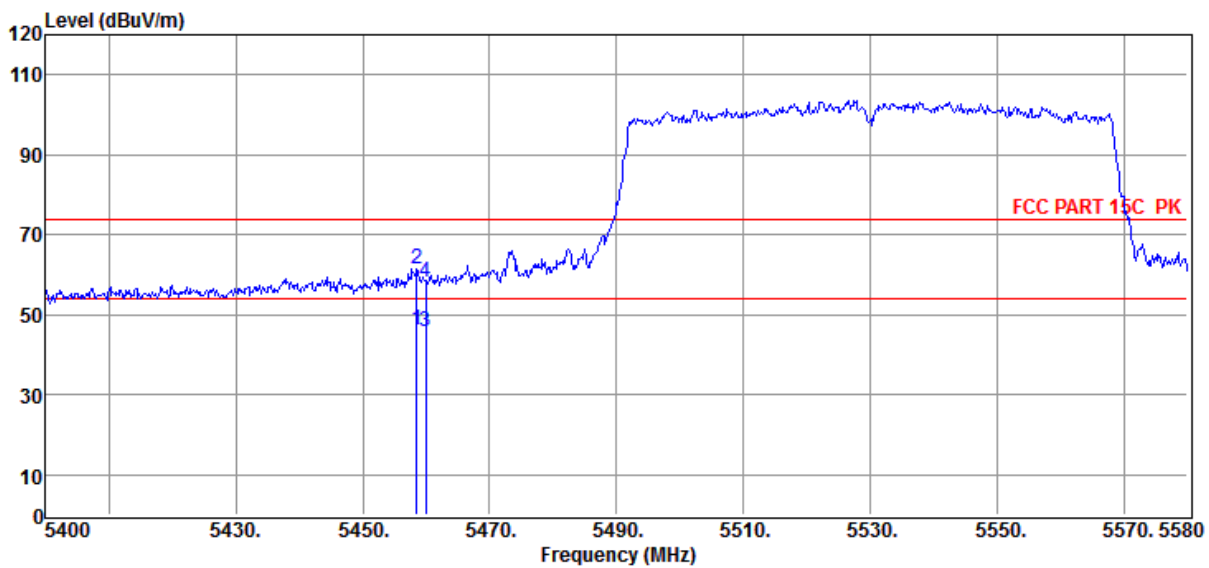
Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter

Test Mode : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5530MHz

Data: 114



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5458.50	41.53	34.52	12.73	46.27	54.00	-7.73	Average	VERTICAL
2	5458.50	56.67	34.52	12.73	61.41	74.00	-12.59	Peak	VERTICAL
3	5460.00	41.03	34.52	12.73	45.77	54.00	-8.23	Average	VERTICAL
4	5460.00	53.26	34.52	12.73	58.00	74.00	-16.00	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

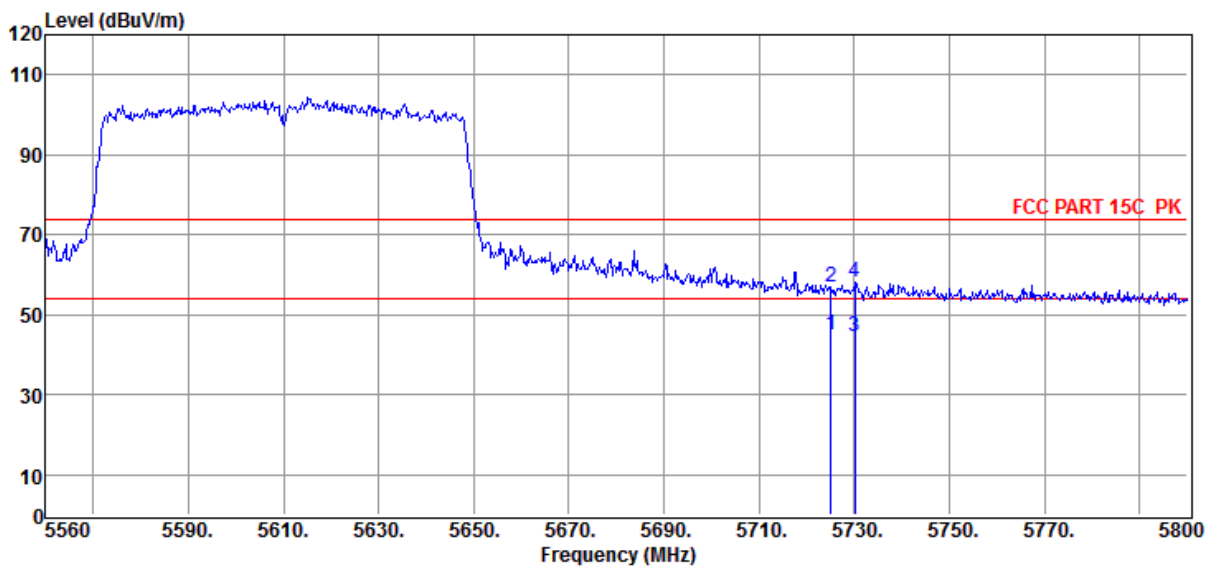
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5610MHz

Data: 115



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	39.24	35.27	12.84	44.89	54.00	-9.11	Average	HORIZONTAL
2	5725.00	51.40	35.27	12.84	57.05	74.00	-16.95	Peak	HORIZONTAL
3	5730.16	38.98	35.29	12.84	44.66	54.00	-9.34	Average	HORIZONTAL
4	5730.16	52.57	35.29	12.84	58.25	74.00	-15.75	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-06-2024

Tested By : Sunny

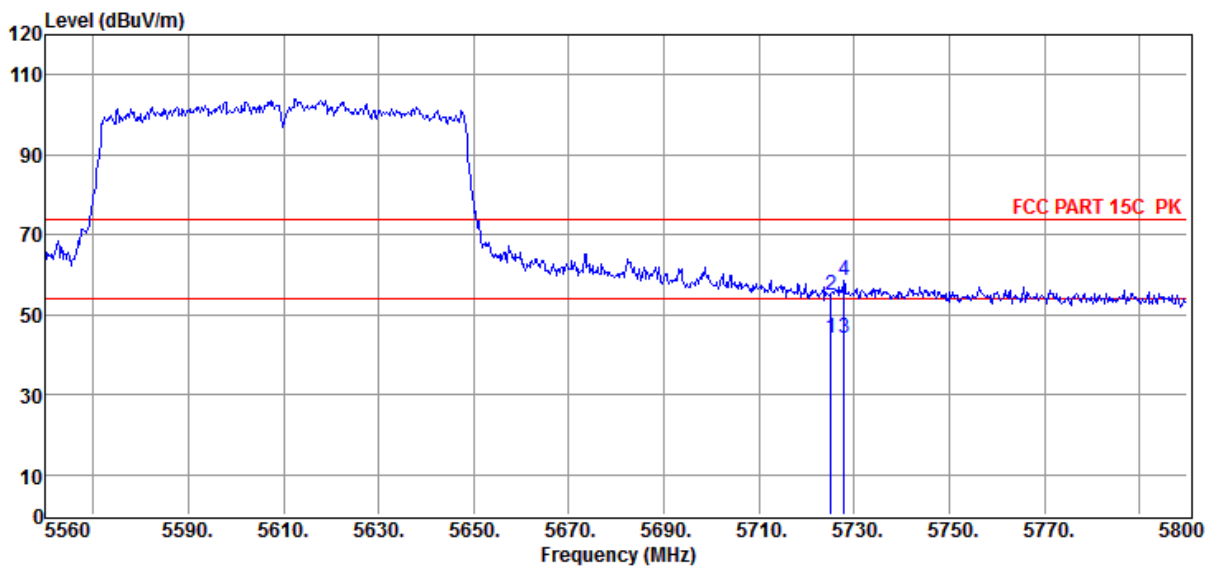
EUT : Wireless Bridge

Model Number : RG-EST450G

Power Supply : DC 24 V passive PoE by Power Adapter **Test Mode** : Tx mode

Memo : 11AC80 MCS0 ANT1+2 5610MHz

Data: 116



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5725.00	38.44	35.27	12.84	44.09	54.00	-9.91	Average	VERTICAL
2	5725.00	49.29	35.27	12.84	54.94	74.00	-19.06	Peak	VERTICAL
3	5727.76	38.55	35.28	12.84	44.22	54.00	-9.78	Average	VERTICAL
4	5727.76	52.94	35.28	12.84	58.61	74.00	-15.39	Peak	VERTICAL

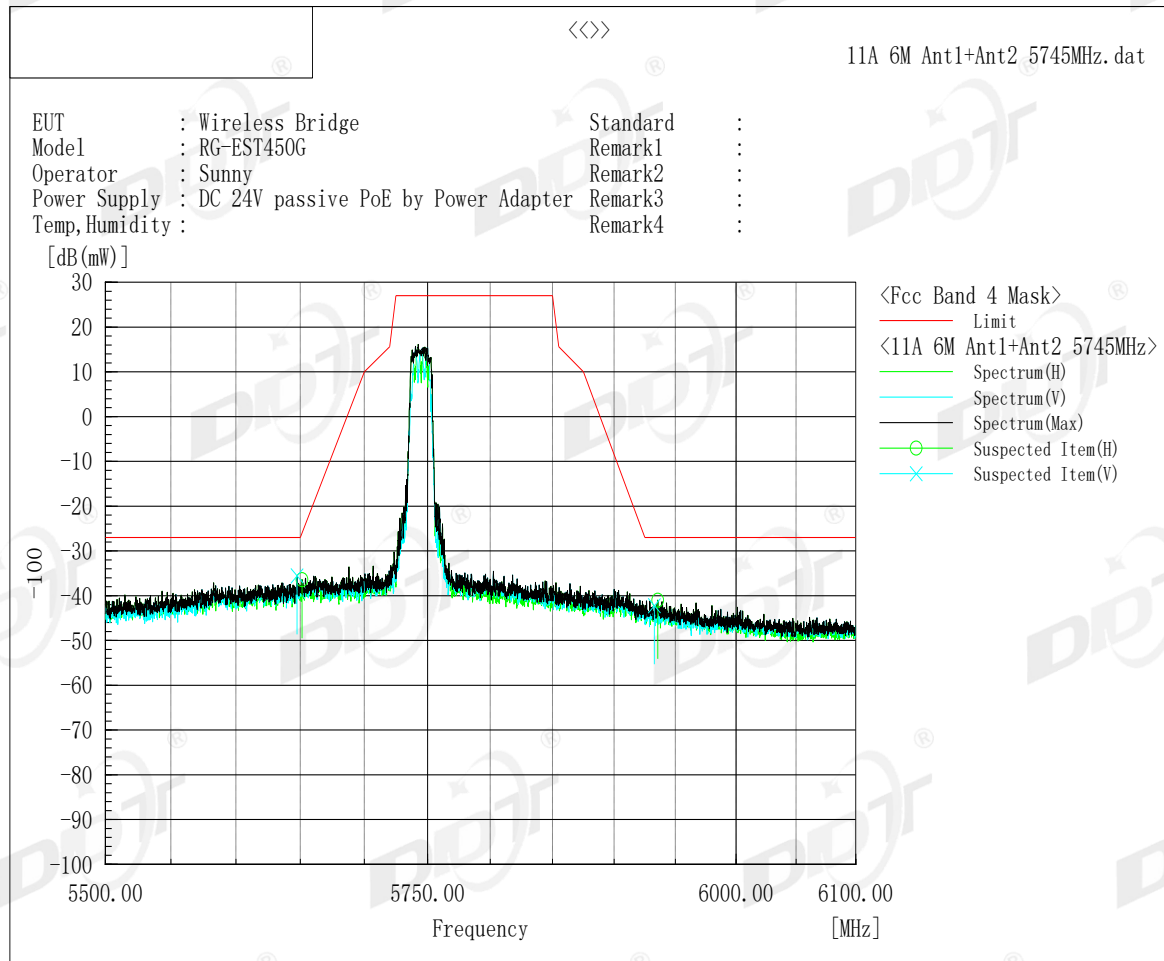
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

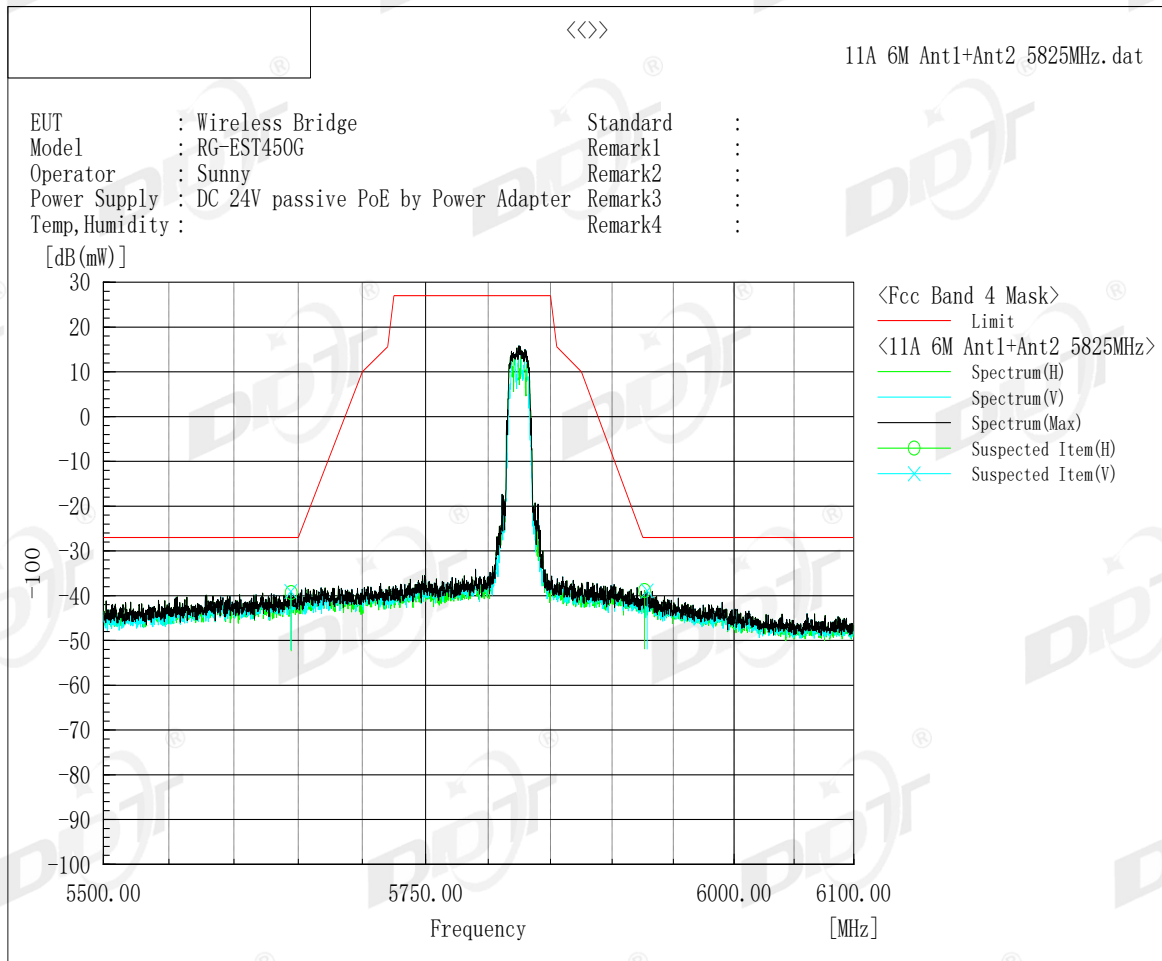
Radiated Emission Test Result



Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5651.337	H	-55	18.6	-36.4	-26	10.4	329.4
5935.551	H	-60.3	19.3	-41	-27	14	22.7
5647.382	V	-54.4	18.8	-35.6	-27	8.6	336.6
5932.768	V	-61.6	19.4	-42.2	-27	15.2	336.6

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 2. Margin = Limit - Reading Level.

Radiated Emission Test Result

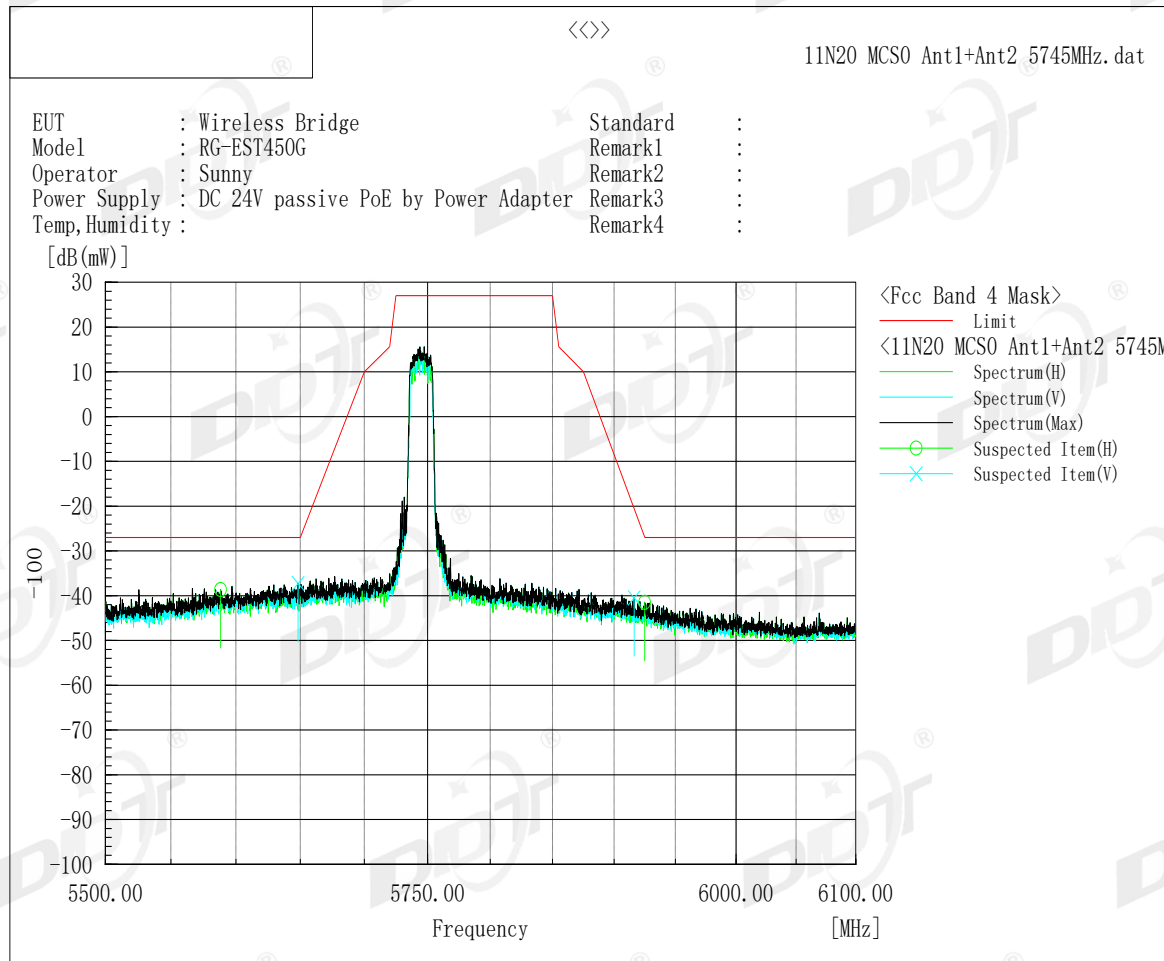


Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5644.452	H	-58	18.7	-39.3	-27	12.3	321.6
5926.395	H	-58.2	19.3	-38.9	-27	11.9	321.6
5644.012	V	-57.8	18.8	-39	-27	12	6.3
5928.519	V	-58.3	19.4	-38.9	-27	11.9	320.5

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

2. Margin = Limit - Reading Level.

Radiated Emission Test Result

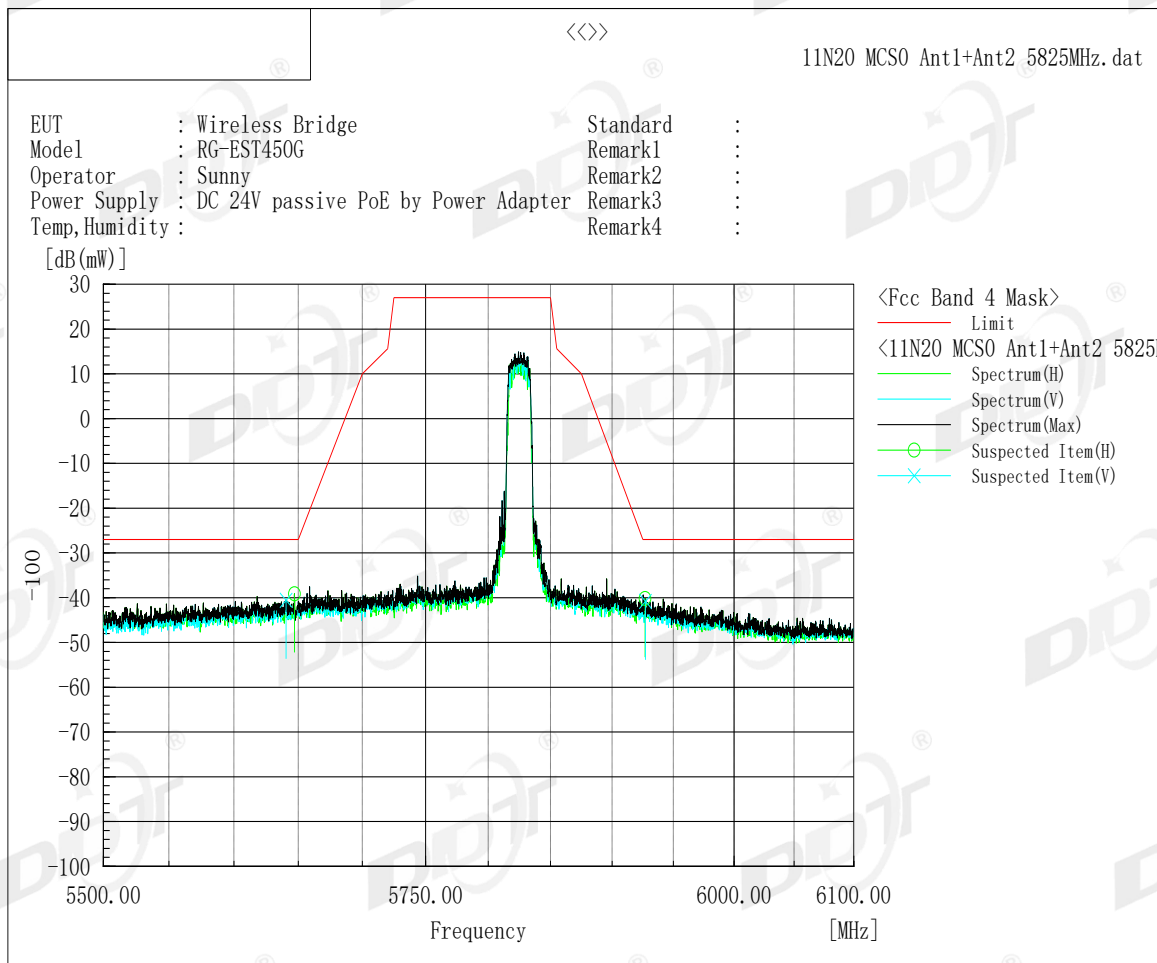


Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5588.122	H	-57.4	18.8	-38.6	-27	11.6	322.7
5924.783	H	-60.8	19.3	-41.5	-26.8	14.7	23.1
5648.188	V	-56	18.7	-37.3	-27	10.3	6.7
5916.213	V	-59.9	19.4	-40.5	-20.5	20	336.5

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

2. Margin = Limit - Reading Level.

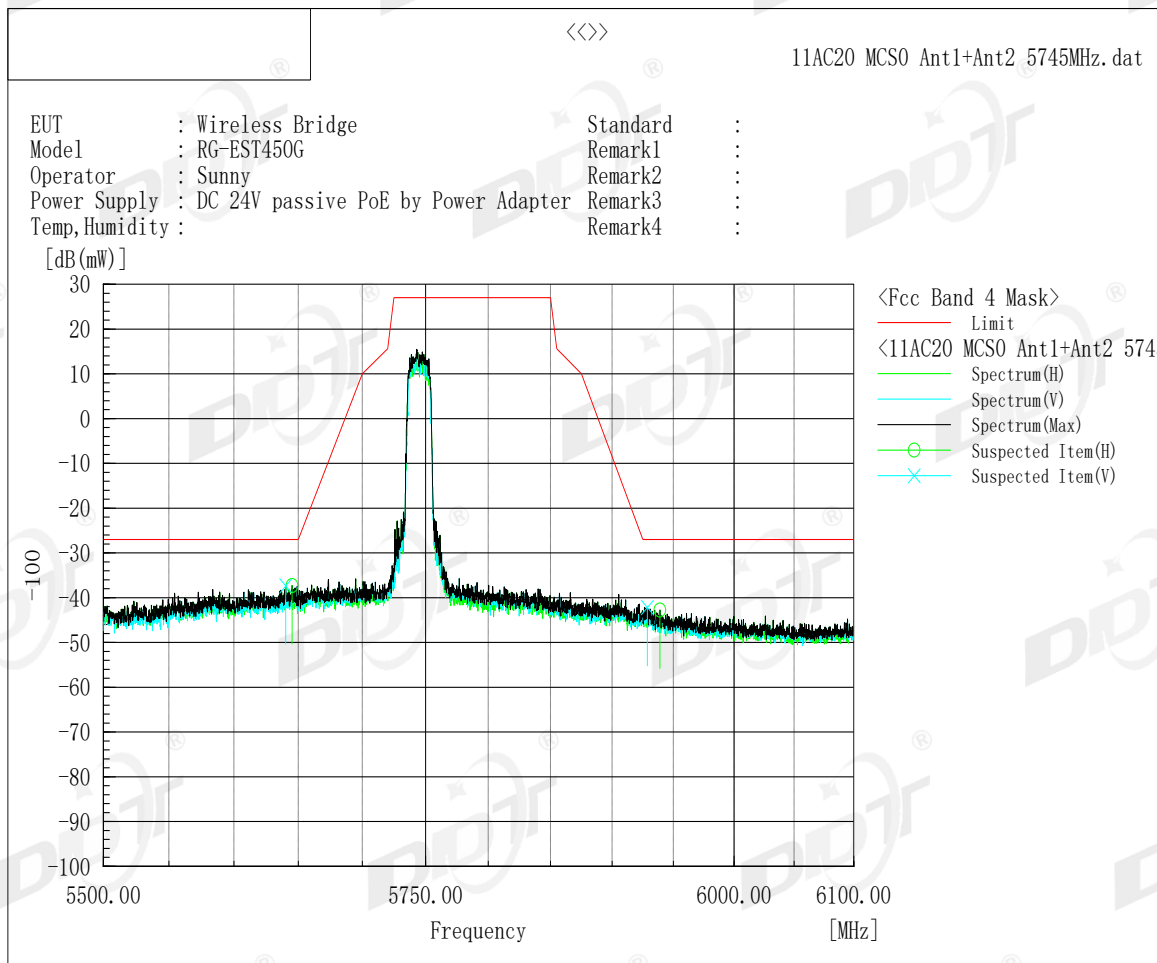
Radiated Emission Test Result



Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5646.942	H	-57.7	18.6	-39.1	-27	12.1	23.4
5926.761	H	-59.5	19.3	-40.2	-27	13.2	46
5640.423	V	-59.4	18.8	-40.6	-27	13.6	23.7
5927.054	V	-60.2	19.4	-40.8	-27	13.8	7.7

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 2. Margin = Limit - Reading Level.

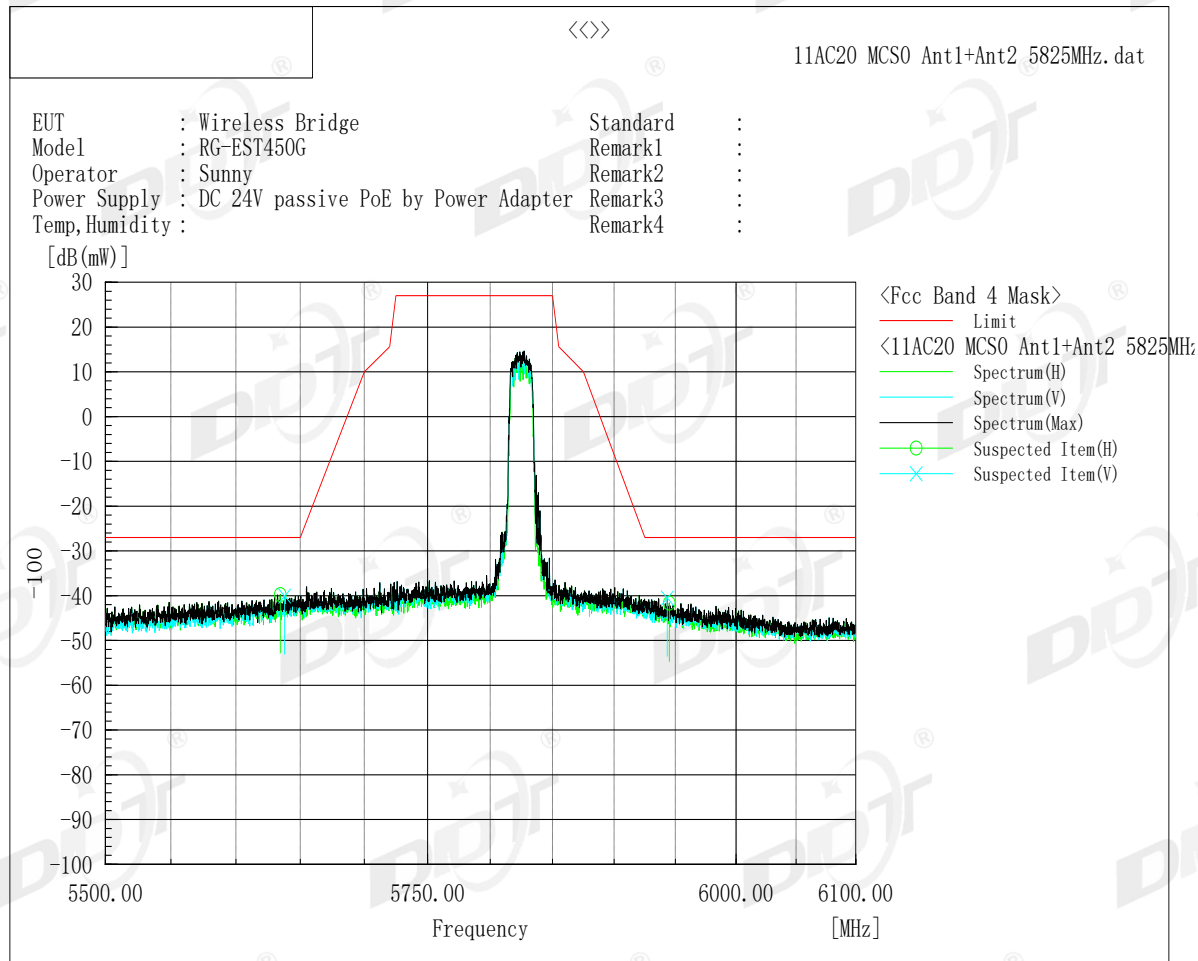
Radiated Emission Test Result



Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5645.111	H	-56	18.7	-37.3	-27	10.3	348.7
5938.994	H	-62.1	19.3	-42.8	-27	15.8	324.2
5640.13	V	-56.2	18.8	-37.4	-27	10.4	0.4
5928.666	V	-61.6	19.4	-42.2	-27	15.2	1.9

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 2. Margin = Limit - Reading Level.

Radiated Emission Test Result

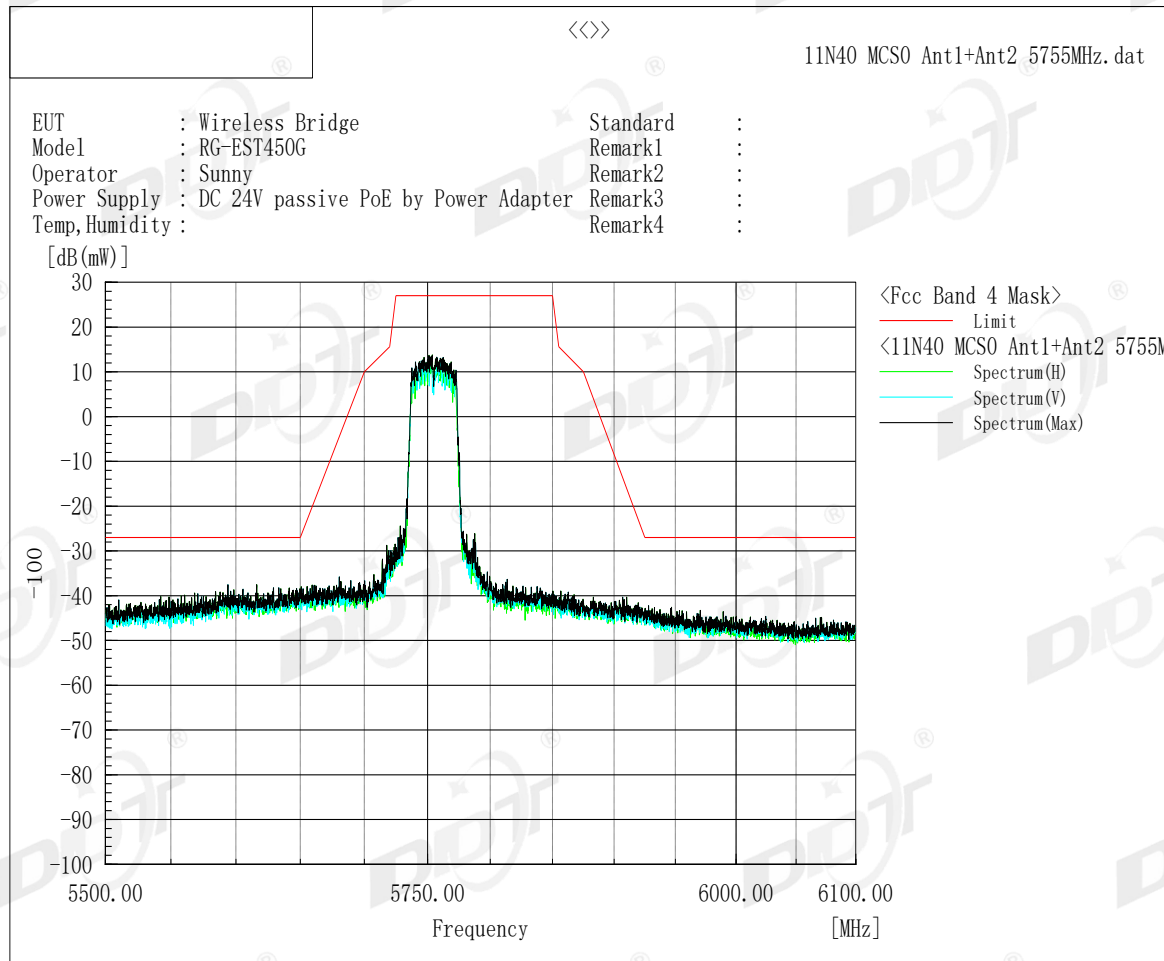


Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5634.416	H	-58.5	18.7	-39.8	-27	12.8	32.5
5945.074	H	-61.1	19.4	-41.7	-27	14.7	321.5
5637.713	V	-58.9	18.8	-40.1	-27	13.1	3.7
5943.389	V	-59.9	19.4	-40.5	-27	13.5	320.7

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

2. Margin = Limit - Reading Level.

Radiated Emission Test Result

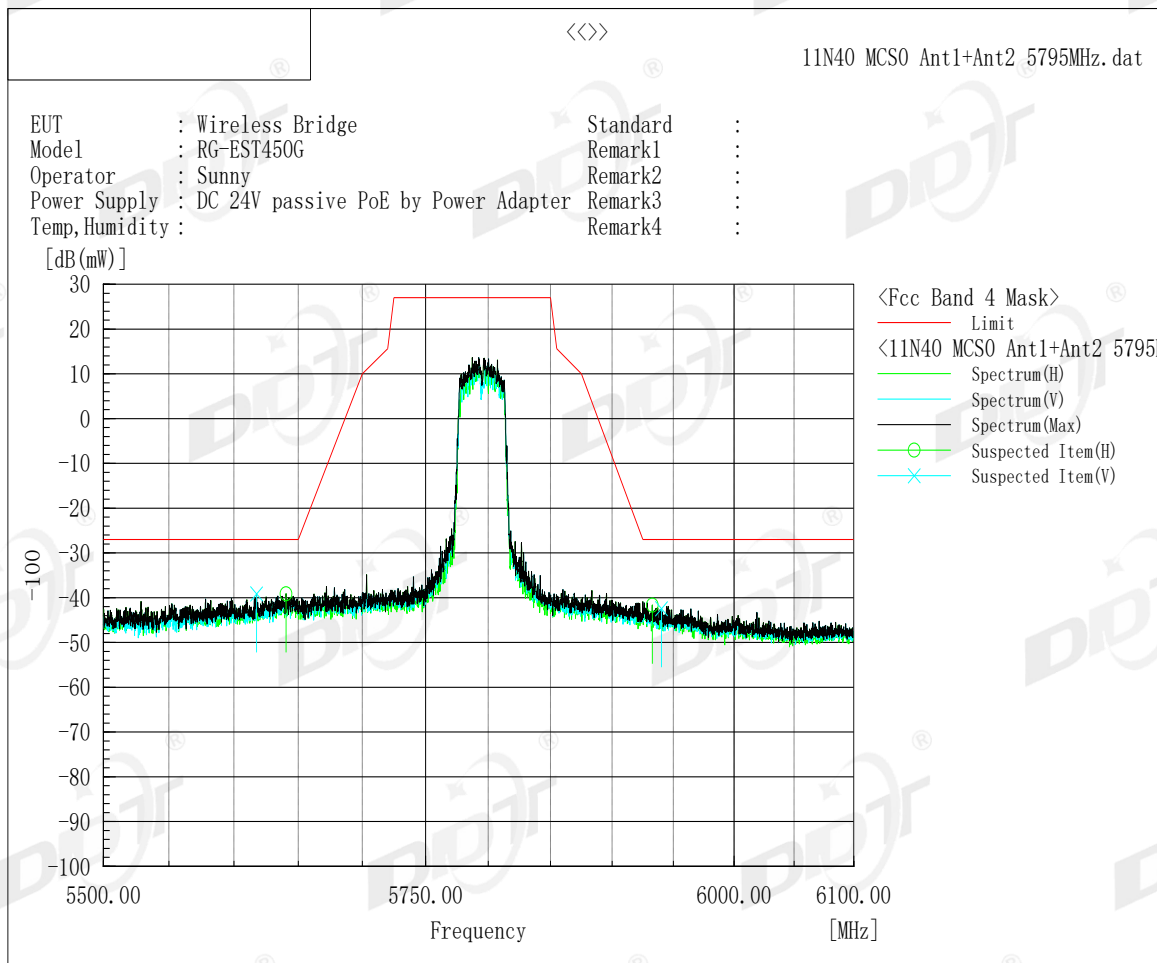


Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5616.03	H	-56.4	18.8	-37.6	-27	10.6	31.9
5946.832	H	-62	19.4	-42.6	-27	15.6	338.6
5593.762	V	-56.5	19	-37.5	-27	10.5	318
5953.351	V	-62.7	19.4	-43.3	-27	16.3	9.8

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

2. Margin = Limit - Reading Level.

Radiated Emission Test Result

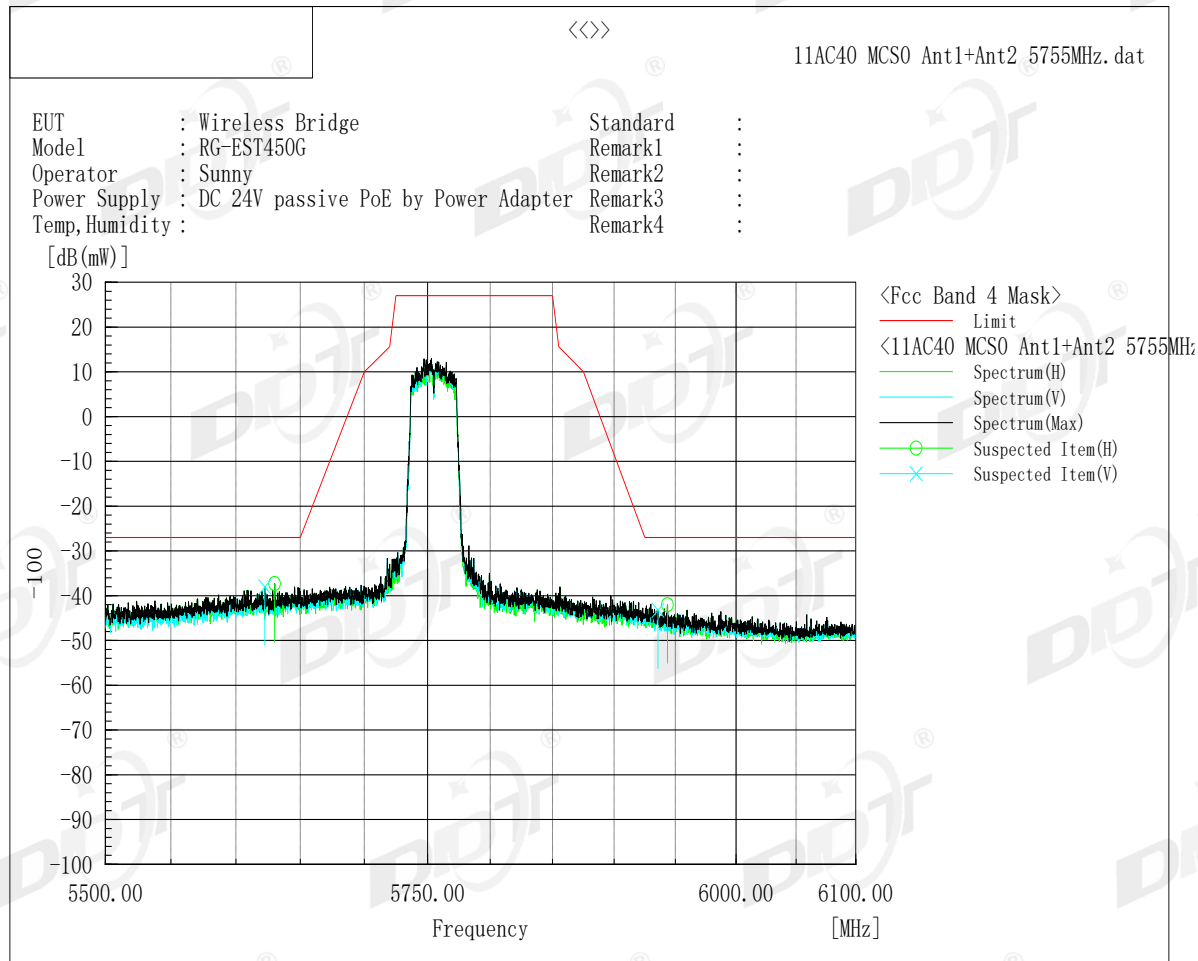


Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5640.423	H	-57.9	18.7	-39.2	-27	12.2	23.3
5932.694	H	-61	19.3	-41.7	-27	14.7	23.3
5617.422	V	-58.1	19	-39.1	-27	12.1	20.1
5940.239	V	-61.9	19.4	-42.5	-27	15.5	336.8

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

2. Margin = Limit - Reading Level.

Radiated Emission Test Result

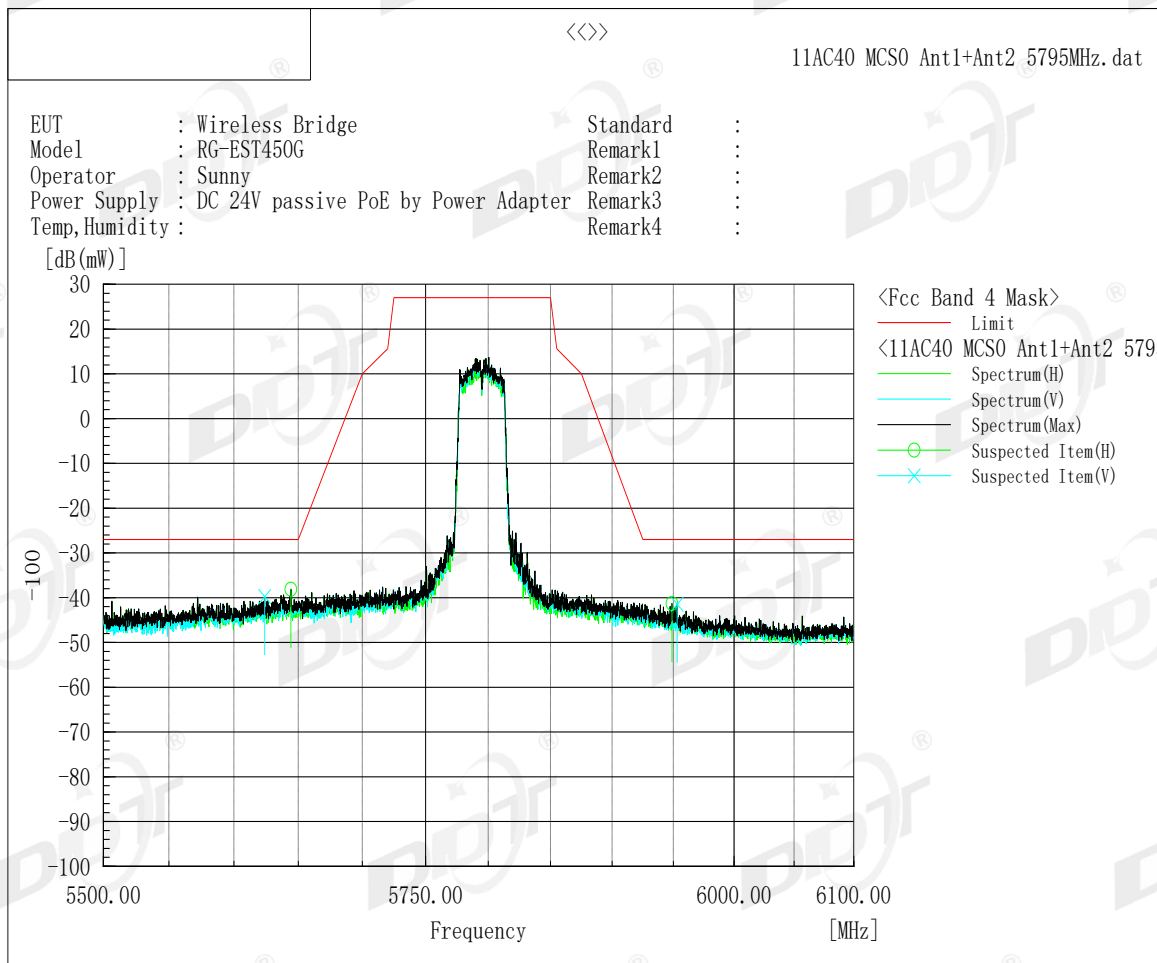


Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5629.948	H	-56	18.7	-37.3	-27	10.3	26.1
5943.536	H	-61.4	19.4	-42	-27	15	22.9
5622.257	V	-57	19	-38	-27	11	337.2
5935.698	V	-62.6	19.4	-43.2	-27	16.2	337.2

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

2. Margin = Limit - Reading Level.

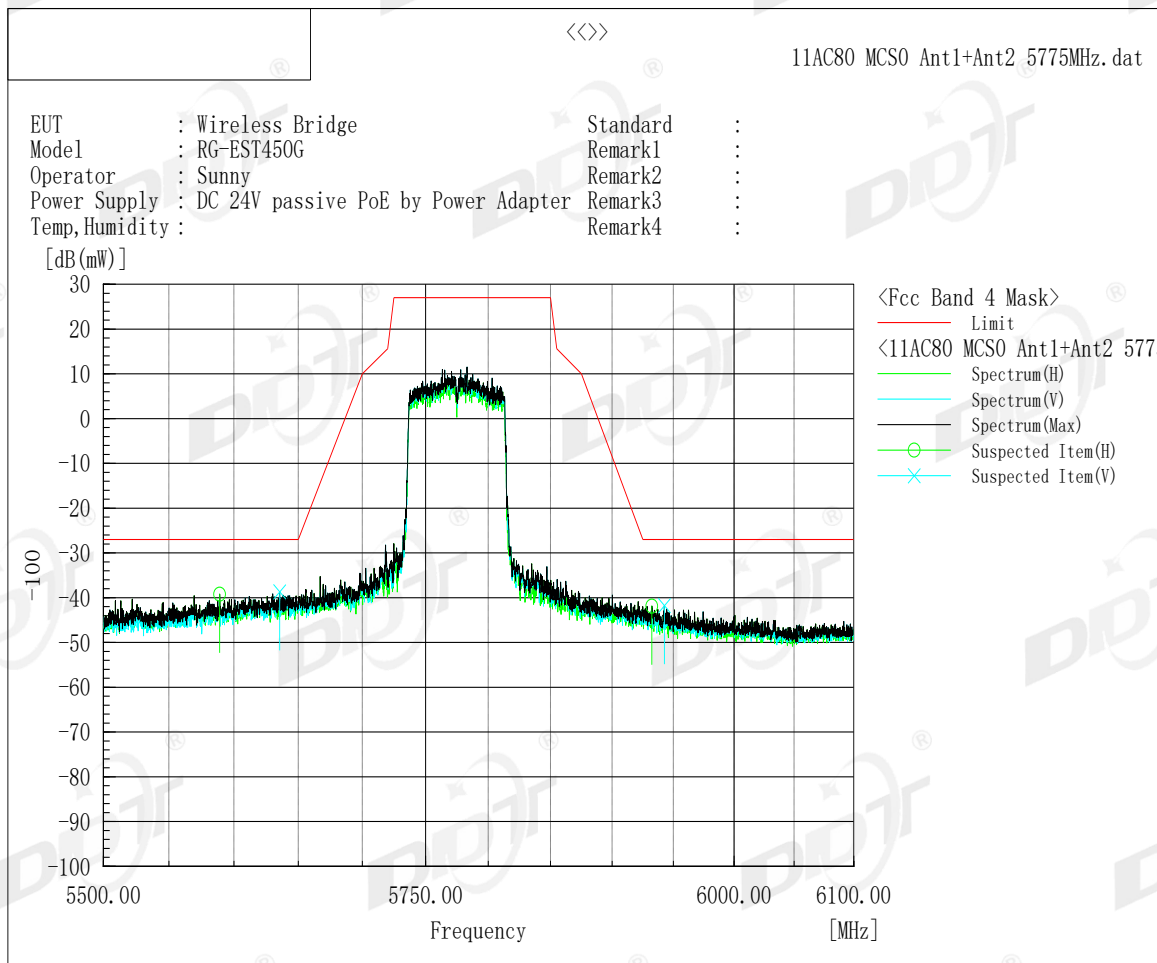
Radiated Emission Test Result



Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5644.159	H	-56.8	18.7	-38.1	-27	11.1	23
5948.81	H	-60.7	19.4	-41.3	-27	14.3	328.3
5623.722	V	-58.7	19	-39.7	-27	12.7	10
5953.058	V	-60.8	19.4	-41.4	-27	14.4	19.1

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 2. Margin = Limit - Reading Level.

Radiated Emission Test Result

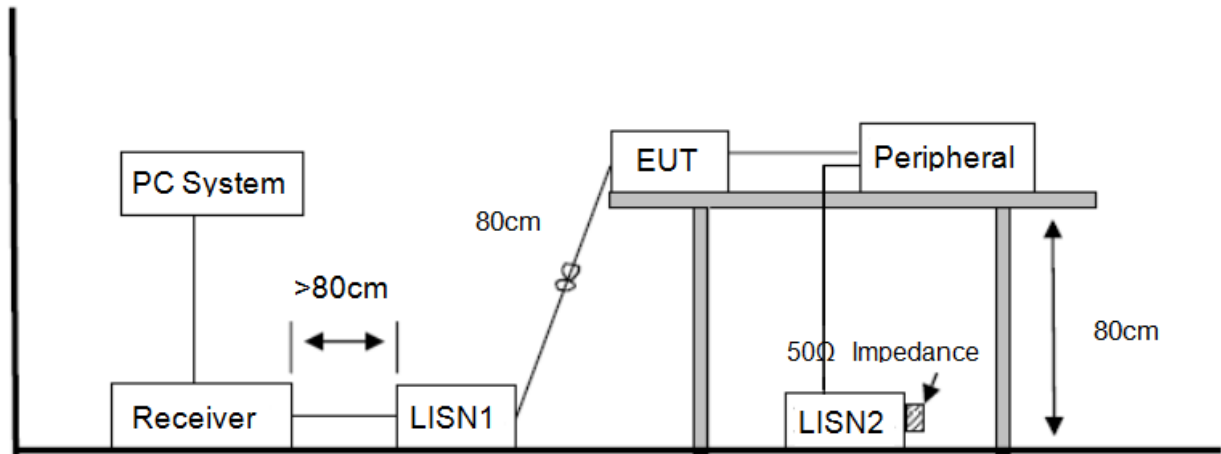


Frequency [MHz]	Pol	Reading [dB(mW)]	Space Loss [dB]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Azimuth [°]
5588.927	H	-58	18.8	-39.2	-27	12.2	23.3
5932.328	H	-61.2	19.3	-41.9	-27	14.9	23.3
5635.369	V	-57.6	18.9	-38.7	-27	11.7	337.1
5942.583	V	-61.2	19.4	-41.8	-27	14.8	6

Note: 1. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 2. Margin = Limit - Reading Level.

11. Power Line Conducted Emission

11.1. Block diagram of test setup



11.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

11.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test. EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

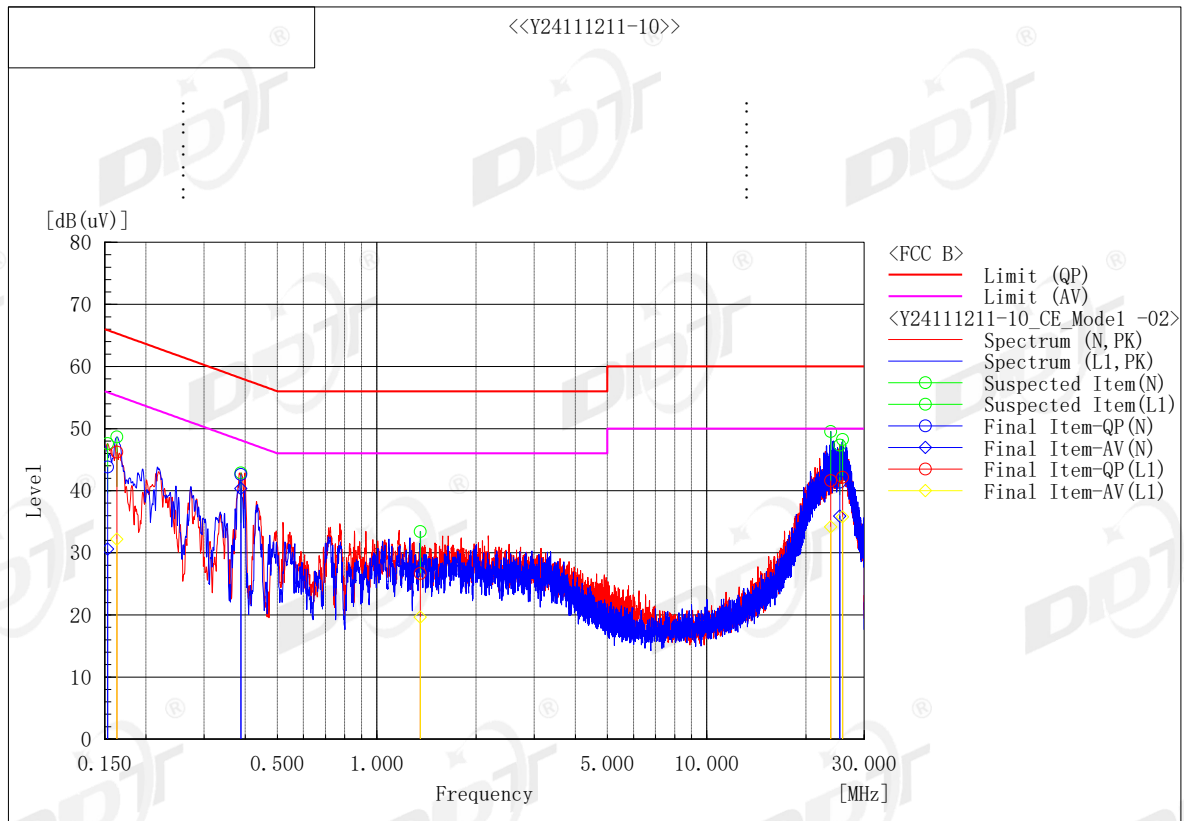
The bandwidth of test receiver is set at 9 kHz.

11.4. Test Result

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: Pre-test AC conducted emission at all mode, only the worst case was recorded in this report.

Conducted Emission Test Result



Final Result

--- N Phase ---										
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.15313	34.0	20.8	9.8	43.8	30.6	65.8	55.8	22.0	25.2
2	0.38802	32.8	30.5	9.8	42.6	40.3	58.1	48.1	15.5	7.8
3	25.30394	31.1	25.6	10.3	41.4	35.9	60.0	50.0	18.6	14.1

--- L1 Phase ---										
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.16321	36.4	22.4	9.8	46.2	32.2	65.3	55.3	19.1	23.1
2	1.35631	16.8	9.7	9.9	26.7	19.6	56.0	46.0	29.3	26.4
3	23.75877	31.3	23.9	10.3	41.6	34.2	60.0	50.0	18.4	15.8
4	25.81007	32.0	25.6	10.2	42.2	35.8	60.0	50.0	17.8	14.2

Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor

Note2) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note3) Factor = LISN Insertion Loss + Cable Loss

Note4) Margin = Limit – Level (Quasi-Peak and/or C/Average)

Note5) C/Average : Abbreviation of CISPR Average

12. Antenna Requirements

12.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

12.2. Result

The device support equipments tow antennas, this product was dedicated antennas and other than that furnished by the responsible party shall be used with the device.

13. Test setup photograph

Please find the detailed in APPENDIXES-Test Setup-FCC&IC.

14. Photos of the EUT

Please find the photos of EUT in APPENDIXES-Photos.

END OF REPORT