

Radio Test Report

47 CFR Part 15.249

Applicant's name : Hongbaoda Science and Education Culture Co., Ltd., Chenghai Dist., Shantou City

Address : No.9, West Yiheng, Longtian Road, Guangyi Street, Chenghai District, Shantou City, Guangdong Province

Manufacture's Name : Hongbaoda Science and Education Culture Co., Ltd., Chenghai Dist., Shantou City

Address : No.9, West Yiheng, Longtian Road, Guangyi Street, Chenghai District, Shantou City, Guangdong Province

Product description

Trader mark : N/A

Product Name: : remote control football toy

Model and/or type reference : HBD88-ZQ01

Serial Model : HBD88-ZQ02 , HBD88-ZQ03

Rating(s) : DC3V

Standards : 47 CFR Part 15.249

The EUT described above has been tested by us with the listed standards and found in compliance with the FCC requirements. It is possible to use FCC marking to demonstrate the compliance with this FCC requirements.

Note: This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen VOP Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen VOP Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Date of Test

Date (s) of performance of tests : 2026-03-04 ~ 2026-03-18

Date of Issue : 2026-03-18

Test Result : **Pass**

Prepared by:

Jide Huang

Project Engineer

Reviewed by:

Eason Zhou

Project Supervisor

Approved by:

Eason Yu
Technical Director



REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-03-18	Valid	Initial Release



Contents

Contents.....	3
1. TEST SUMMARY.....	4
2. MEASUREMENT UNCERTAINTY.....	4
3. TEST FACILITY	5
3.1. Deviation from Standard	5
3.2. Abnormalities from Standard Conditions	5
4. GENERAL INFORMATION	6
4.1. General Description of EUT	6
4.2. EUT Test Mode.....	6
4.3. Auxiliary Equipment Used During Test	6
5. EQUIPMENTS LIST FOR ALL TEST ITEMS.....	8
6. TEST RESULTS	10
6.1. Antenna requirement	10
6.1.1. Conclusion:	10
6.2. Occupied Bandwidth	11
6.2.1. EUT Operation.....	12
6.2.2. Test Setup Diagram:.....	12
6.2.3. Test Data	12
6.3. Field strength of fundamental	13
6.3.1. EUT Operation.....	13
6.3.2. Test Setup Diagram:.....	13
6.3.3. Test Data	14
6.4. Band edge emissions (Radiated).....	20
6.4.1. EUT Operation.....	20
6.4.2. Test Setup Diagram:.....	21
6.4.3. Test Data	22
6.5. Emissions in frequency bands (below 1GHz)	26
6.5.1. EUT Operation.....	27
6.5.2. Test Setup Diagram:.....	27
6.5.3. Test Data	28
6.6. Emissions in frequency bands (above 1GHz).....	34
6.6.1. EUT Operation.....	35
6.6.2. Test Setup Diagram:.....	35
6.6.3. Test Data	36
7. TEST SETUP PHOTOS.....	48
8. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	50
9. Appendix Report	54

1. TEST SUMMARY

No.	Test Item	Basic Standard	Result
1	Antenna requirement	47 CFR Part 15.249	PASS
2	Occupied Bandwidth	47 CFR Part 15.249	PASS
3	Field strength of fundamental	47 CFR Part 15.249	PASS
4	Band edge emissions (Radiated)	47 CFR Part 15.249	PASS
5	Emissions in frequency bands (below 1GHz)	47 CFR Part 15.249	PASS
6	Emissions in frequency bands (above 1GHz)	47 CFR Part 15.249	PASS

2. MEASUREMENT UNCERTAINTY

The report uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	$\pm 3.5\%$
2	All emissions, radiated (1GHz - 18GHz)	$\pm 4.66\text{dB}$
3	All emissions, radiated (30MHz - 1GHz)	$\pm 3.94\text{dB}$
4	All emissions, radiated (18GHz - 40GHz)	$\pm 4.31\text{dB}$

3. TEST FACILITY

Shenzhen VOP Testing Technology Co., Ltd.

Add:103, Building 5, Wanyan Industrial Park Qiaotou Community, Fuhai Street, Baoan District Shenzhen, Guangdong People's Republic of China

FCC:Designation Number:CN1438,Certificate Number: 7579.01

3.1. Deviation from Standard

None

3.2. Abnormalities from Standard Conditions

None



4. GENERAL INFORMATION

4.1. General Description of EUT

Manufacturer	Hongbaoda Science and Education Culture Co., Ltd.,Chenghai Dist.,Shantou City
Manufacturer Address	No.9, West Yiheng, Longtian Road, Guangyi Street,ChenghaiDistrict, Shantou City, Guangdong Province
EUT Name	remote control football toy
Model No	HBD88-ZQ01
Serial Model	HBD88-ZQ02 , HBD88-ZQ03
FCC ID	2BQZP-HBD88-ZQ01
Brand Name	N/A
Difference Description	All models are identical to each other except for model name and appearance.
Operation Frequency	2420MHz-2460MHz
Number of channels	3 (2420MHz, 2440MHz, 2460MHz)
Modulation Type	GFSK
Bluetooth Version	N/A
Antenna type	PCB Antenna
Antenna Gain	2.47dBi
Hardware Version	N/A
Software Version	N/A
Power Supply	DC3V
Maximum Output Power	N/A

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

4.2. EUT Test Mode

TM1	TX
Note:All above mode have been measurement, only worst data was reported.	

4.3. Auxiliary Equipment Used During Test

No.	Equipment	Manufacturer	Model No.	Serial No.	Remark
1	N/A	N/A	N/A	N/A	N/A



5. EQUIPMENTS LIST FOR ALL TEST ITEMS

Occupied Bandwidth						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI test receiver ESCI	R&S	ESPI-7	100754	2025-03-29	2026-03-28
2	Log periodic antenna	SCHWARZBECK	VULB9163	01790	2025-10-24	2026-10-23
3	preamplifier	QUANJUDA	LNA18	2503130032	2025-07-07	2026-07-06
4	spectrum analyzer	Agilent	N9020A	MY51287427	2025-07-07	2026-07-06
5	Terminal tester	R&S	CMW500	129734	2025-07-07	2026-07-06
6	Vector signal generator	Agilent	N5182A	MY50145556	2025-07-07	2026-07-06
7	RF automatic control unit	TST	CBOX-Full	2752539	2025-07-14	2026-07-13
8	High frequency antenna	Schwarzbeck	9120D-1141	03260	2025-10-19	2026-10-18
9	High-frequency horn antenna	Schwarzbeck	HA-018040L	25098408	2025-10-31	2026-10-30
10	preamplifier	HCT	HC180400- 50G25	25098401	2025-09-19	2026-09-18
11	spectrum analyzer	R&S	FSV40	101373	2025-12-24	2026-12-23
12	preamplifier	SCHWARZBECK	8447D	2944A08081	2025-03-29	2026-03-28

Field strength of fundamental Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	preamplifier	QUANJUDA	LNA18	2503130032	2025-07-07	2026-07-06
2	High frequency antenna	Schwarzbeck	9120D-1141	03260	2025-10-19	2026-10-18
3	High-frequency horn antenna	Schwarzbeck	HA-018040L	25098408	2025-10-31	2026-10-30
4	preamplifier	HCT	HC180400- 50G25	25098401	2025-09-19	2026-09-18
5	spectrum analyzer	R&S	FSV40	101373	2025-12-24	2026-12-23

Emissions in frequency bands (below 1GHz)						
No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI test receiver ESCI	R&S	ESPI-7	100754	2025-03-29	2026-03-28

2	Log periodic antenna	SCHWARZBECK	VULB9163	01790	2025-10-24	2026-10-23
3	preamplifier	SCHWARZBECK	8447D	2944A08081	2025-03-29	2026-03-28



6. TEST RESULTS

6.1. Antenna requirement

Test Requirement:	Refer to 47 CFR Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
-------------------	--

6.1.1. Conclusion:

The EUT antenna is PCB Antenna. It conforms to the standard requirements.



6.2. Occupied Bandwidth

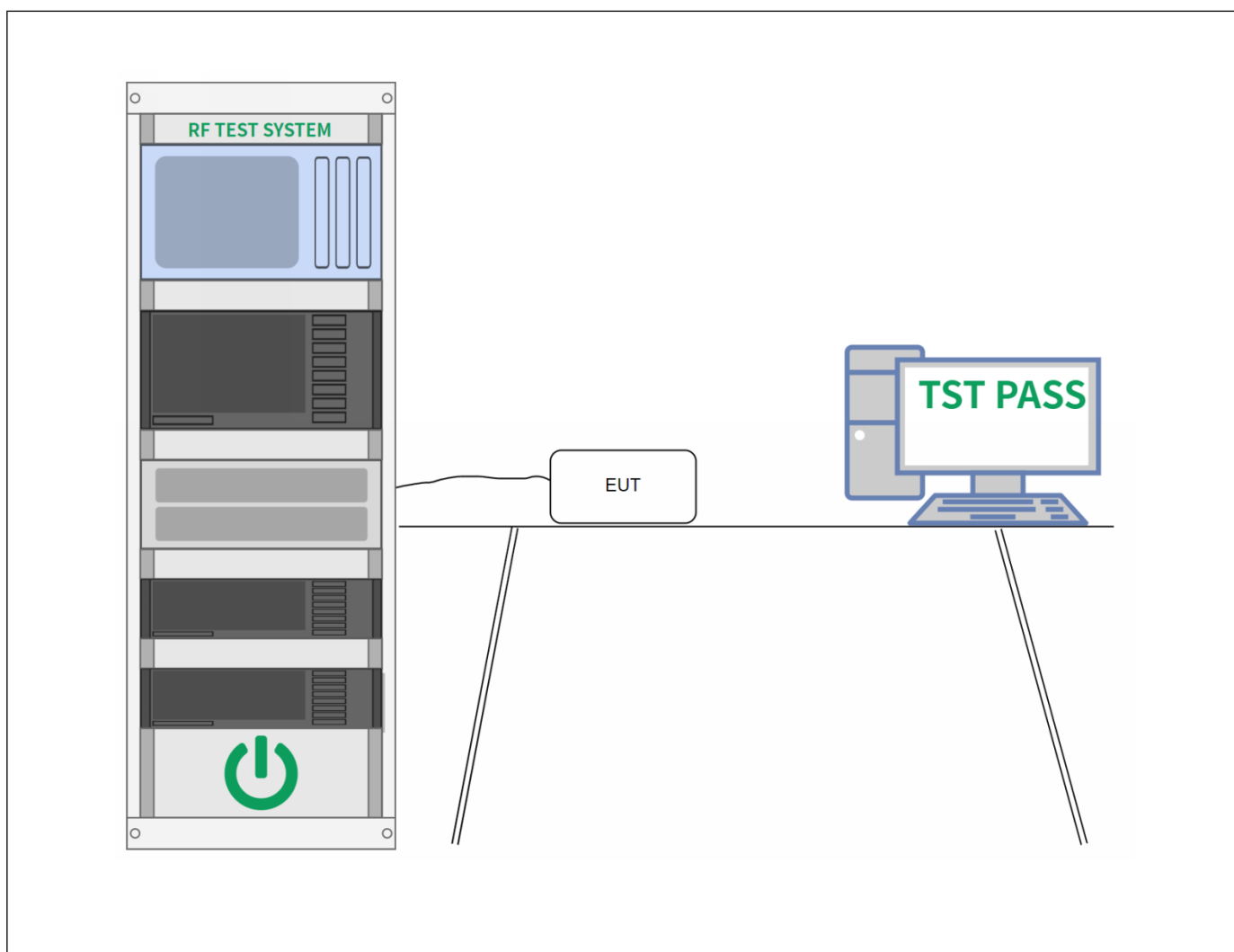
Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10:2020, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the

	delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
--	--

6.2.1. EUT Operation

Operating Environment:					
Temperature :	21.8 °C	Humidity:	52.5 %	Atmospheric Pressure:	101.4 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.2.2. Test Setup Diagram:



6.2.3. Test Data

Please Refer to Appendix for Details.

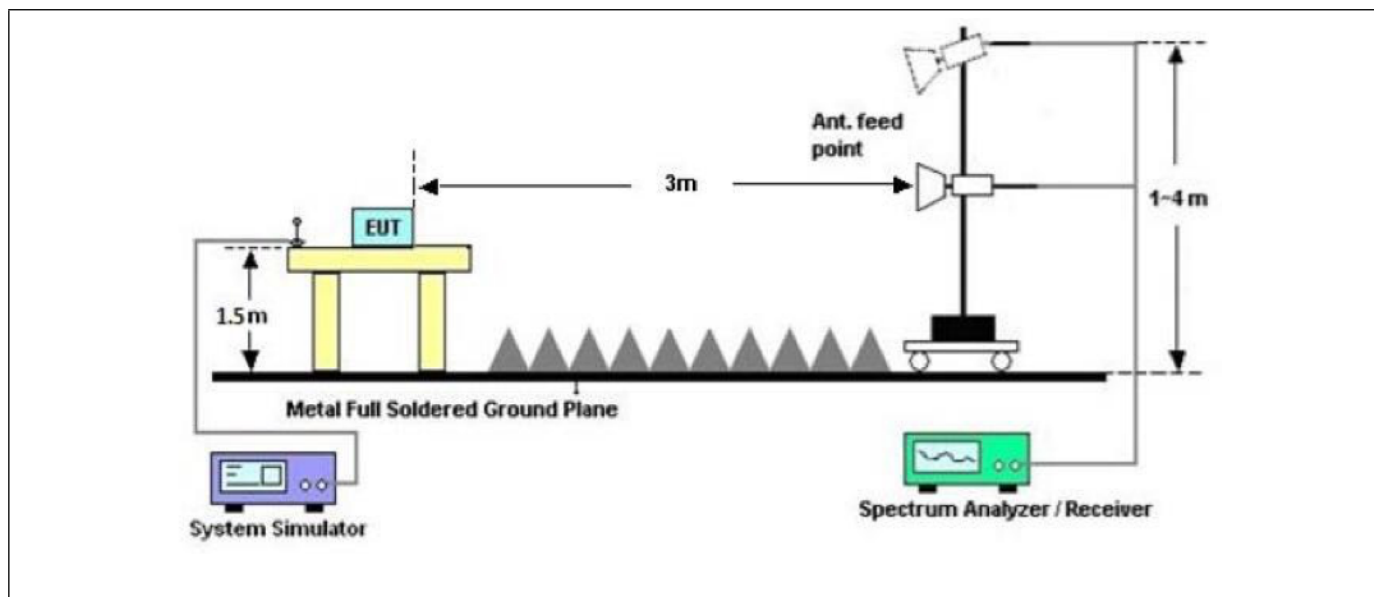
6.3. Field strength of fundamental

Test Requirement:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:		
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
	902-928 MHz	50	500
	2400-2483.5 MHz	50	500
	5725-5875 MHz	50	500
	24.0-24.25 GHz	250	2500
The field strength of emissions in this band shall not exceed 2500 millivolts/meter.			
Test Method:	ANSI C63.10:2020 section 6.6		
Procedure:	ANSI C63.10:2020 section 6.6		

6.3.1. EUT Operation

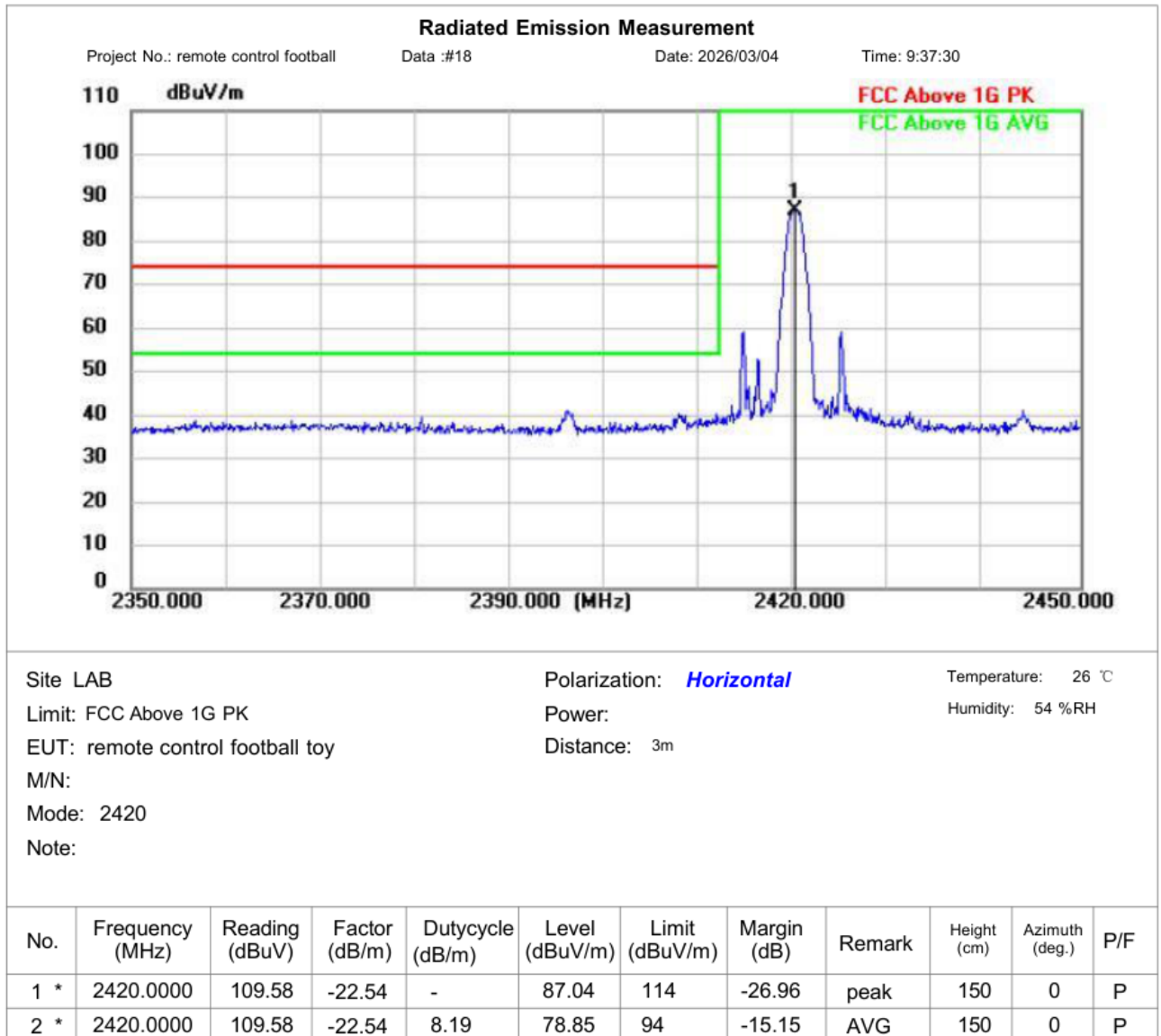
Operating Environment:					
Temperature :	21.2 °C	Humidity:	51.9 %	Atmospheric Pressure:	101.4 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.3.2. Test Setup Diagram:

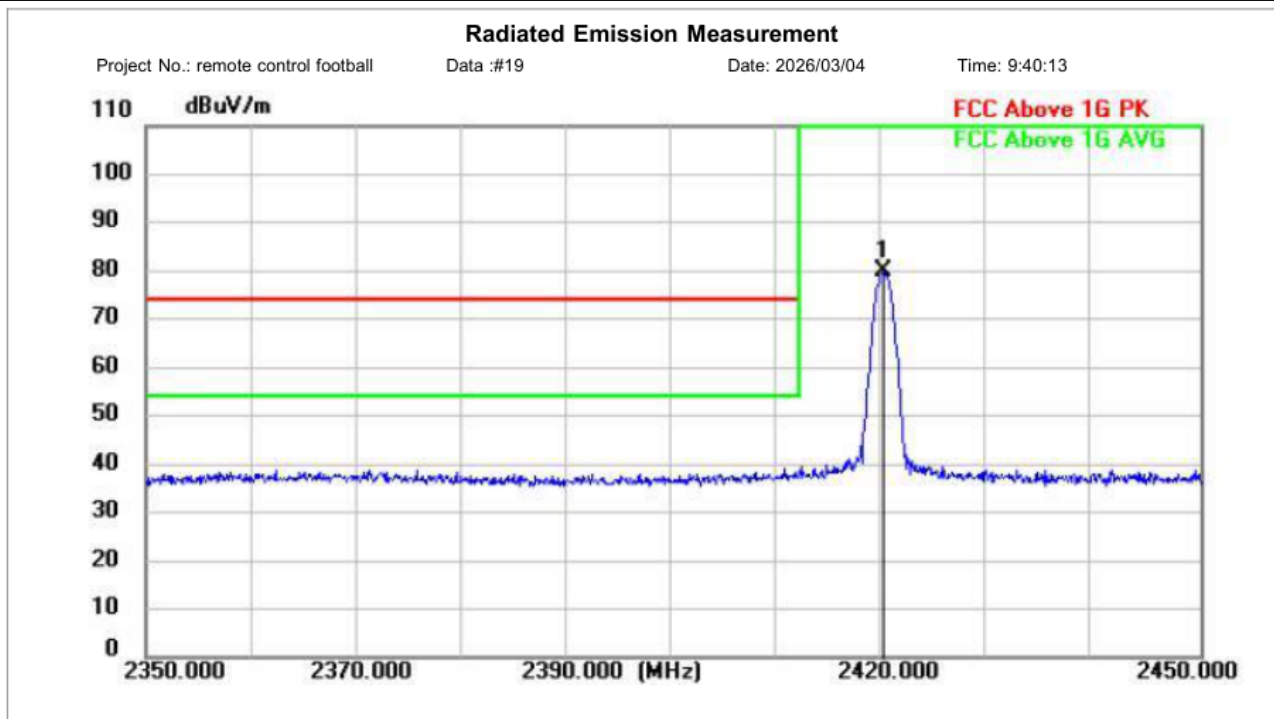


6.3.3. Test Data

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: L



TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: L



Site LAB

Limit: FCC Above 1G PK

EUT: remote control football toy

M/N:

Mode: 2420

Note:

Polarization: **Vertical**

Power:

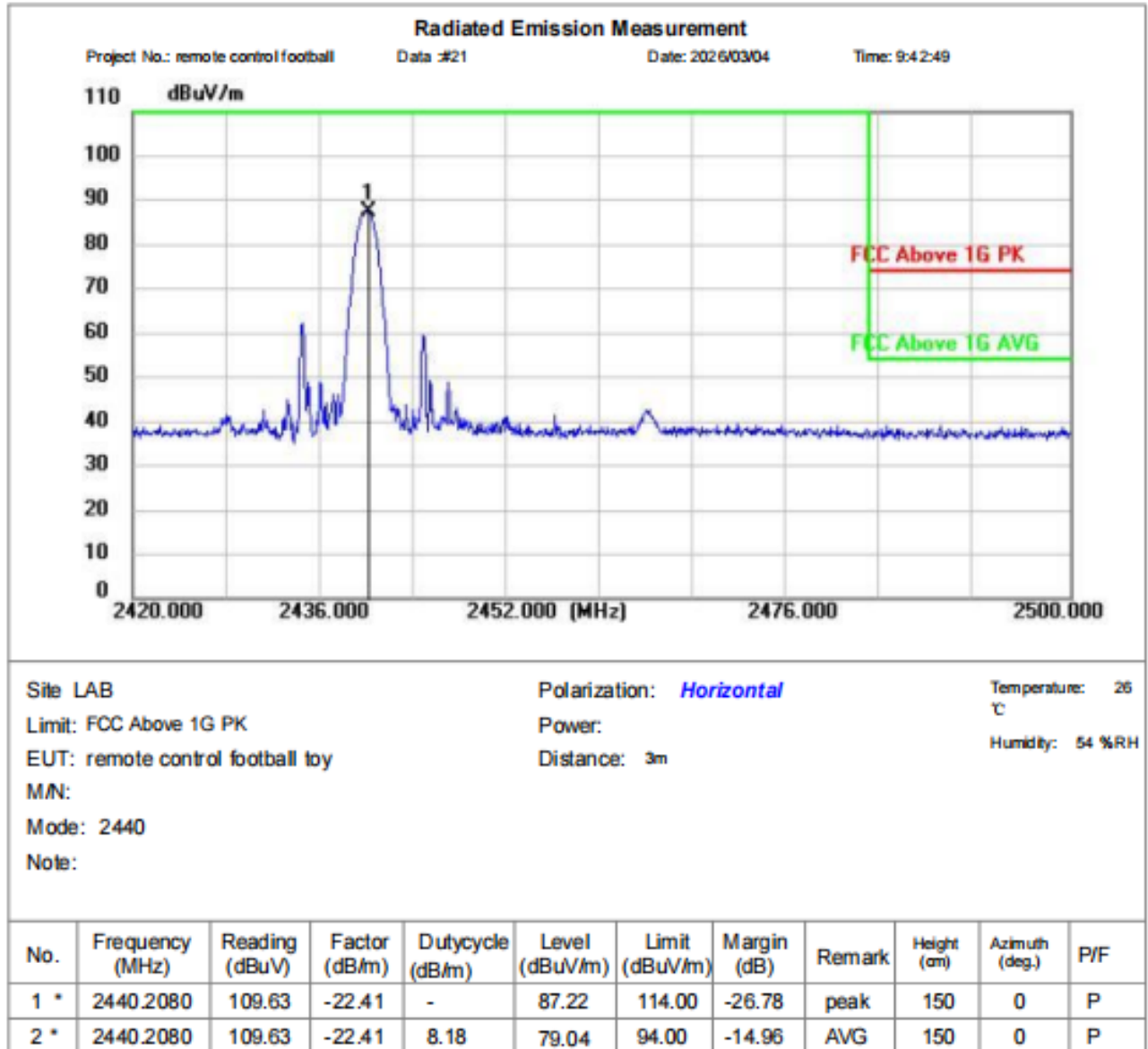
Distance: 3m

Temperature: 26 °C

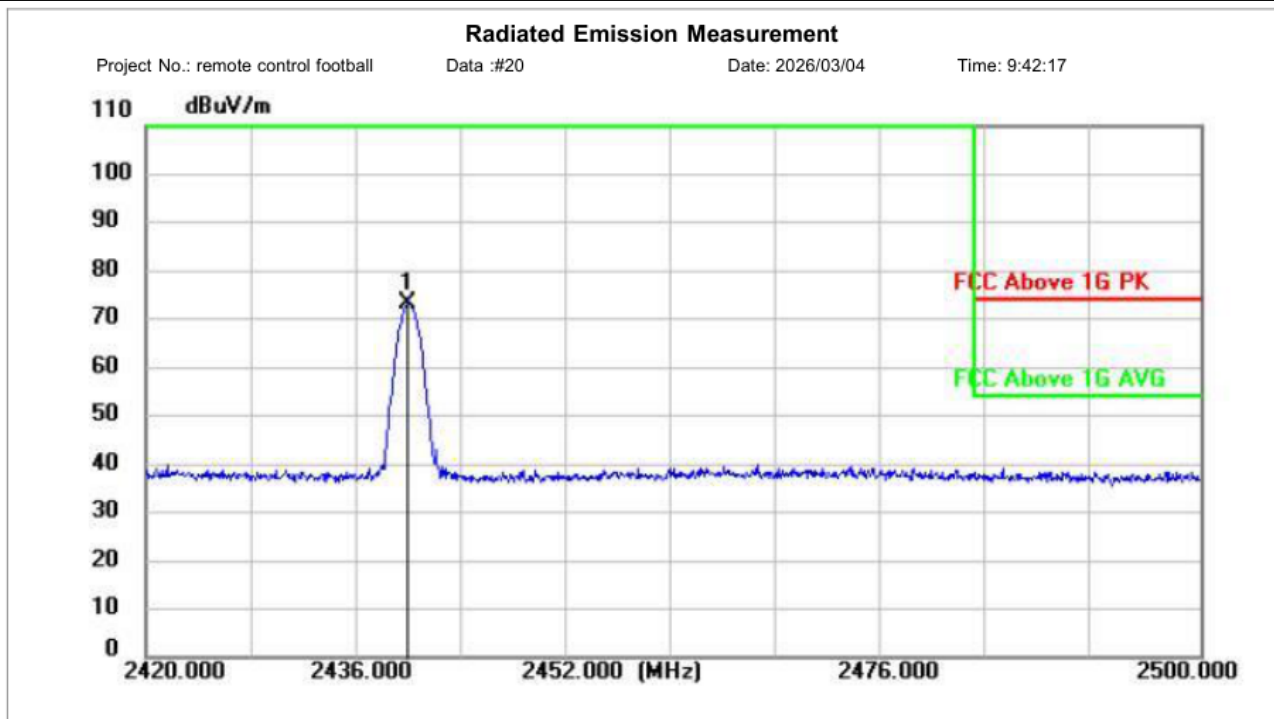
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Dutycycle (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Height (cm)	Azimuth (deg.)	P/F
1 *	2419.9900	102.43	-22.54	-	79.89	114.00	-34.11	peak	150	0	P
2 *	2419.9900	102.43	-22.54	8.19	71.70	94.00	-22.30	AVG	150	0	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: M



TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: M



Site LAB

Limit: FCC Above 1G PK

EUT: remote control football toy

M/N:

Mode: 2440

Note:

Polarization: **Vertical**

Power:

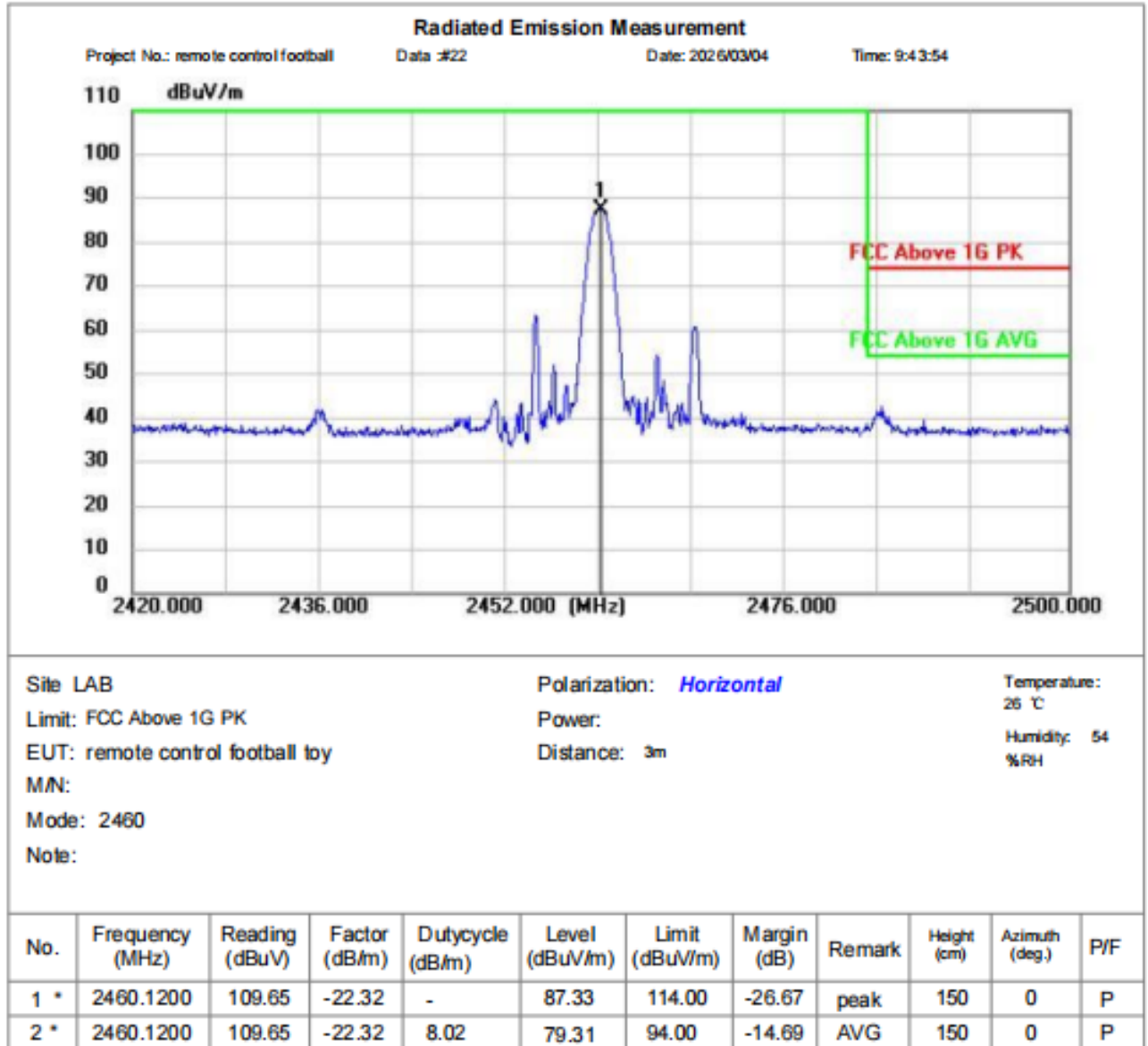
Distance: 3m

Temperature: 26 °C

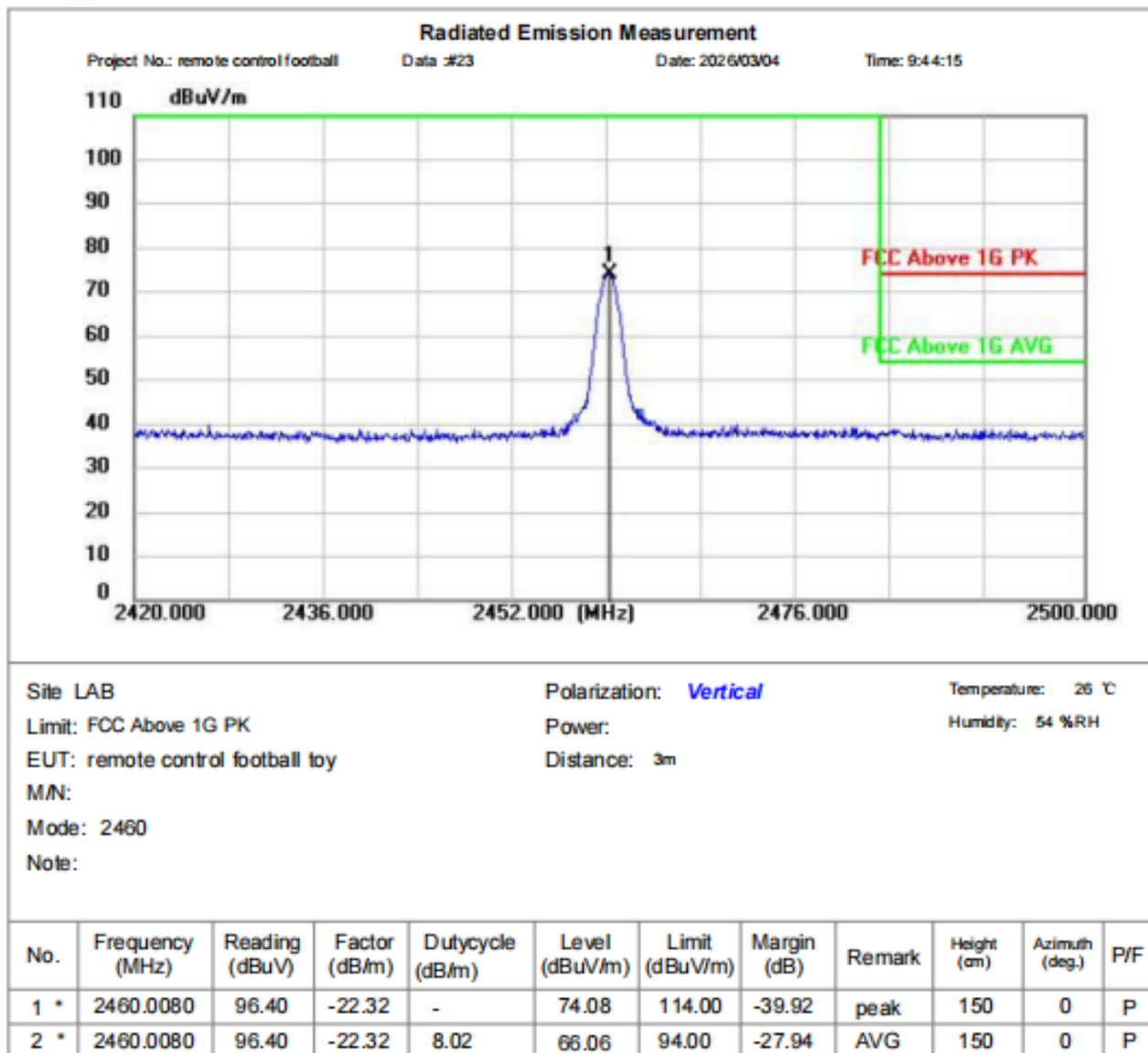
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Dutycycle (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Height (cm)	Azimuth (deg.)	P/F
1 *	2439.9760	95.74	-22.41	-	73.33	114.00	-40.67	peak	150	0	P
2 *	2439.9760	95.74	-22.41	8.18	65.15	94.00	-28.85	AVG	150	0	P

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: H



TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: H



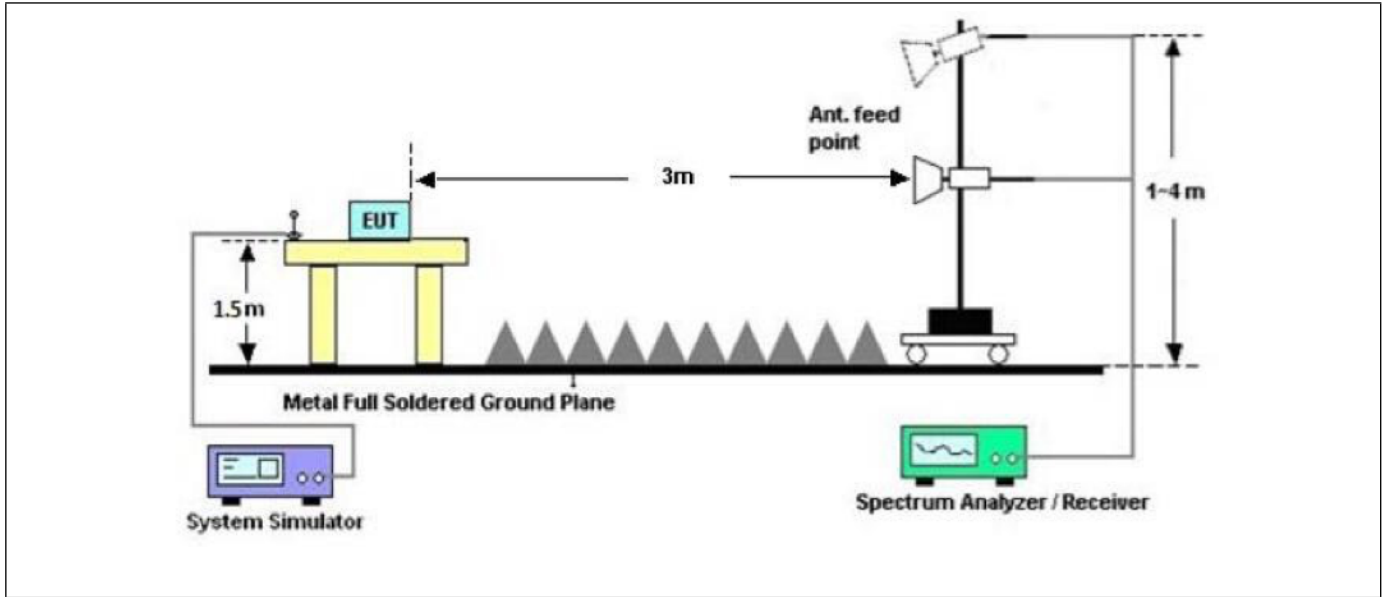
6.4. Band edge emissions (Radiated)

Test Requirement:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
Test Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10:2020 section 6.6.4		
Procedure:	ANSI C63.10:2020 section 6.6.4		

6.4.1. EUT Operation

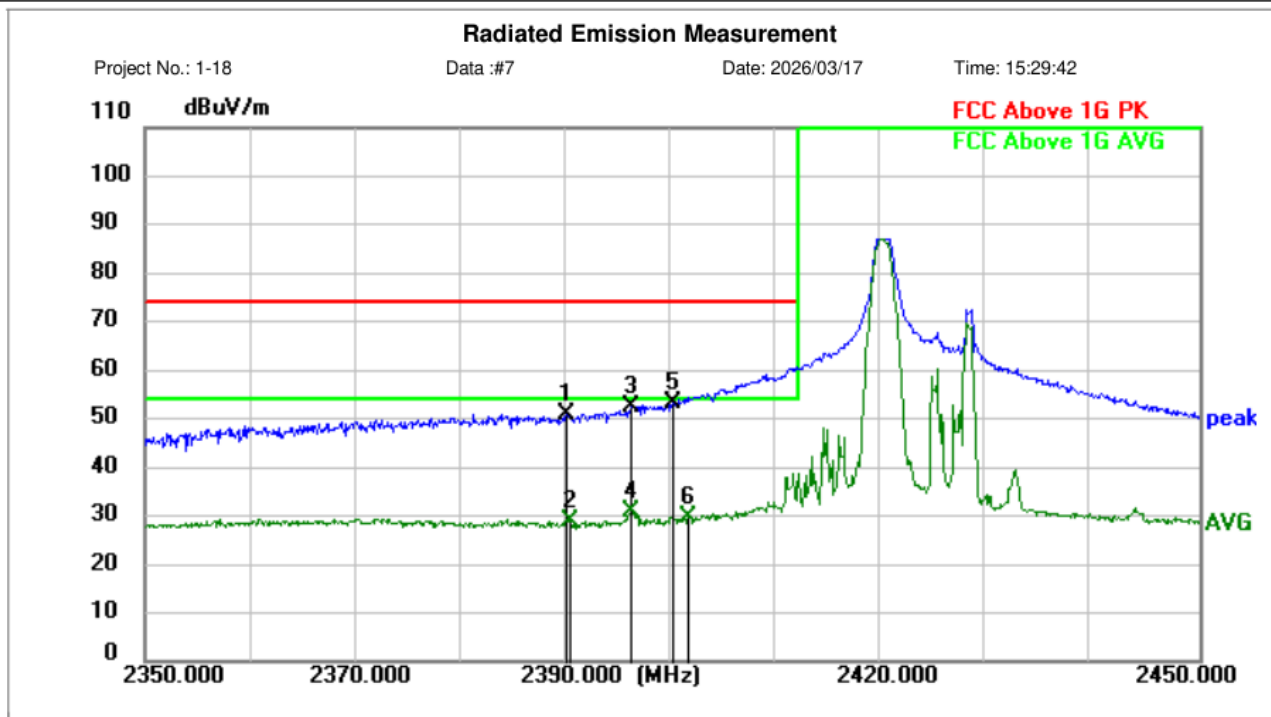
Operating Environment:					
Temperature :	23 °C	Humidity:	49.9 %	Atmospheric Pressure:	101.4 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.4.2. Test Setup Diagram:



6.4.3. Test Data

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: L



Site LAB

Limit: FCC Above 1G PK

EUT:

M/N: 2420

Mode:

Note:

Polarization: **Horizontal**

Power:

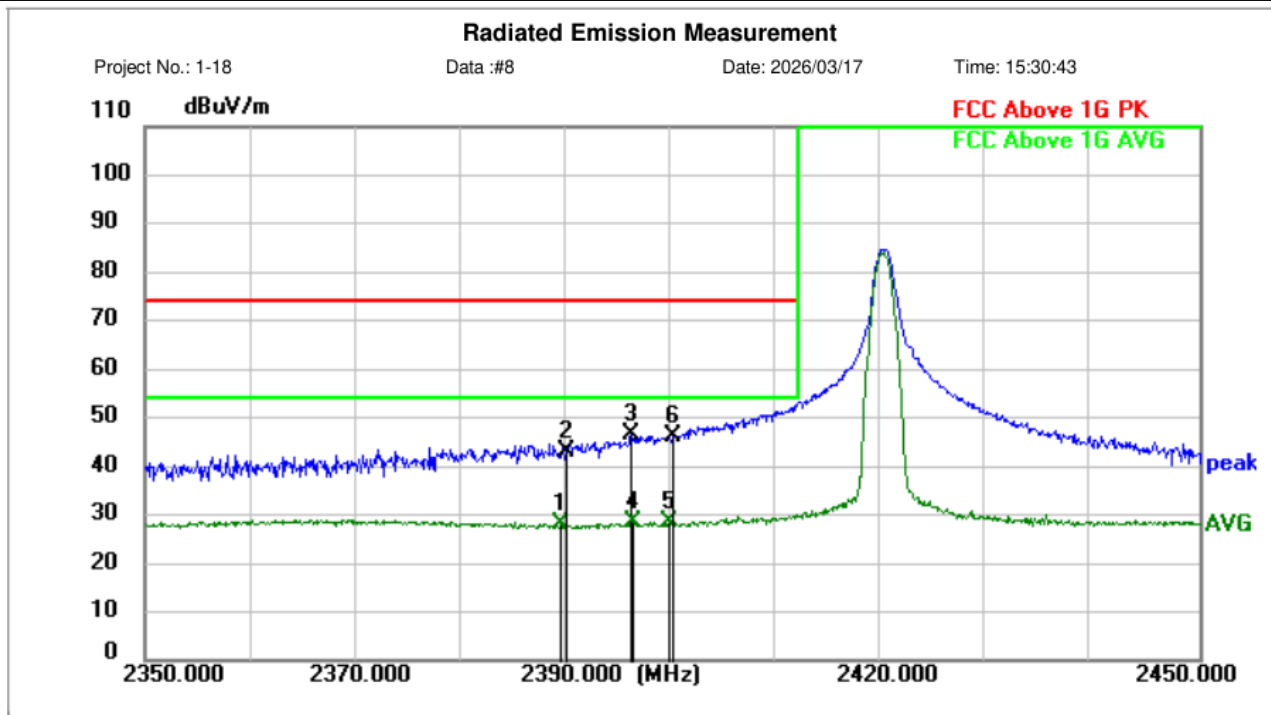
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2390.0000	73.77	-22.71	51.06	74.00	-22.94	peak			P	
2	2390.2200	51.51	-22.71	28.80	54.00	-25.20	AVG			P	
3	2396.0100	75.03	-22.69	52.34	74.00	-21.66	peak			P	
4	2396.0100	53.43	-22.69	30.74	54.00	-23.26	AVG			P	
5 *	2400.0000	75.73	-22.67	53.06	74.00	-20.94	peak			P	
6	2401.5400	52.41	-22.66	29.75	54.00	-24.25	AVG			P	

TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: L



Site LAB

Limit: FCC Above 1G PK

EUT:

M/N: 2420

Mode:

Note:

Polarization: **Vertical**

Power:

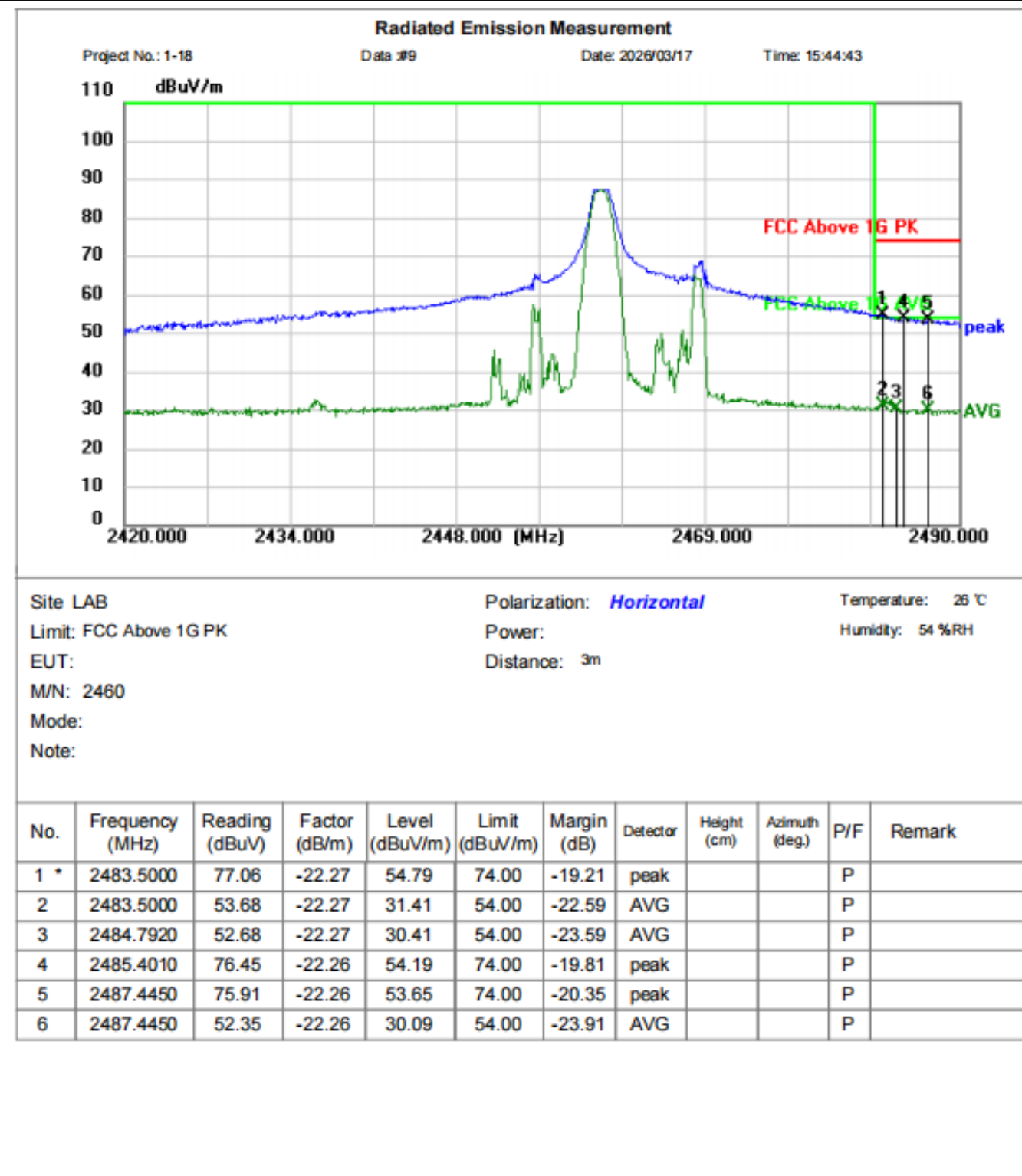
Distance: 3m

Temperature: 26 °C

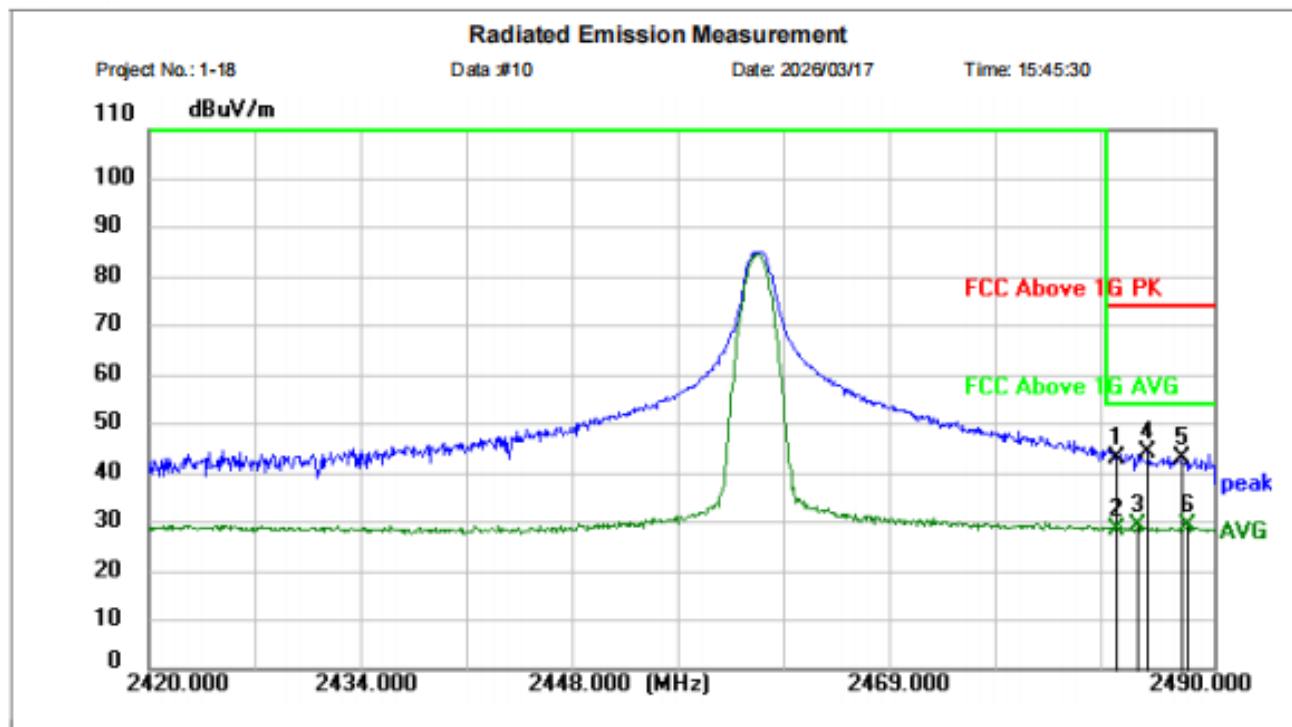
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2389.4700	50.63	-22.71	27.92	54.00	-26.08	AVG			P	
2	2390.0000	65.87	-22.71	43.16	74.00	-30.84	peak			P	
3	2396.2900	69.41	-22.69	46.72	74.00	-27.28	peak			P	
4 *	2396.4000	51.29	-22.68	28.61	54.00	-25.39	AVG			P	
5	2399.7600	51.26	-22.67	28.59	54.00	-25.41	AVG			P	
6	2400.0000	69.00	-22.67	46.33	74.00	-27.67	peak			P	

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: H



TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: H



Site LAB

Limit: FCC Above 1G PK

EUT:

M/N: 2460

Mode:

Note:

Polarization: **Vertical**

Power:

Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.5000	65.38	-22.27	43.11	74.00	-30.89	peak			P	
2	2483.5000	50.88	-22.27	28.61	54.00	-25.39	AVG			P	
3	2485.0790	51.37	-22.26	29.11	54.00	-24.89	AVG			P	
4	2485.6950	66.45	-22.26	44.19	74.00	-29.81	peak			P	
5	2487.9070	65.38	-22.25	43.13	74.00	-30.87	peak			P	
6 *	2488.2220	51.39	-22.25	29.14	54.00	-24.86	AVG			P	

6.5. Emissions in frequency bands (below 1GHz)

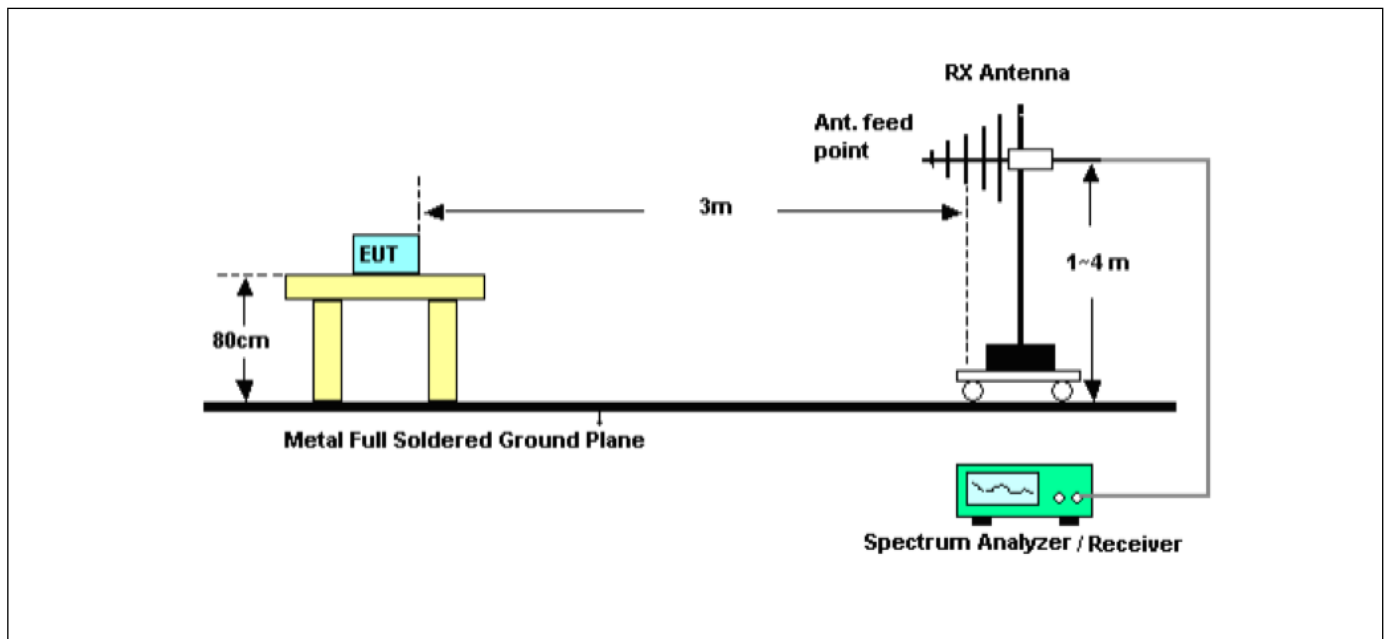
Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																																								
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following: <table border="1"> <thead> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> </thead> <tbody> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </tbody> </table> Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation. <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak		Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																																							
902-928 MHz	50	500																																							
2400-2483.5 MHz	50	500																																							
5725-5875 MHz	50	500																																							
24.0-24.25 GHz	250	2500																																							
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																																							
0.009-0.490	2400/F(kHz)	300																																							
0.490-1.705	24000/F(kHz)	30																																							
1.705-30.0	30	30																																							
30-88	100 **	3																																							
88-216	150 **	3																																							
216-960	200 **	3																																							
Above 960	500	3																																							

	field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
Test Method:	ANSI C63.10:2020 section 6.5
Procedure:	ANSI C63.10:2020 section 6.5

6.5.1. EUT Operation

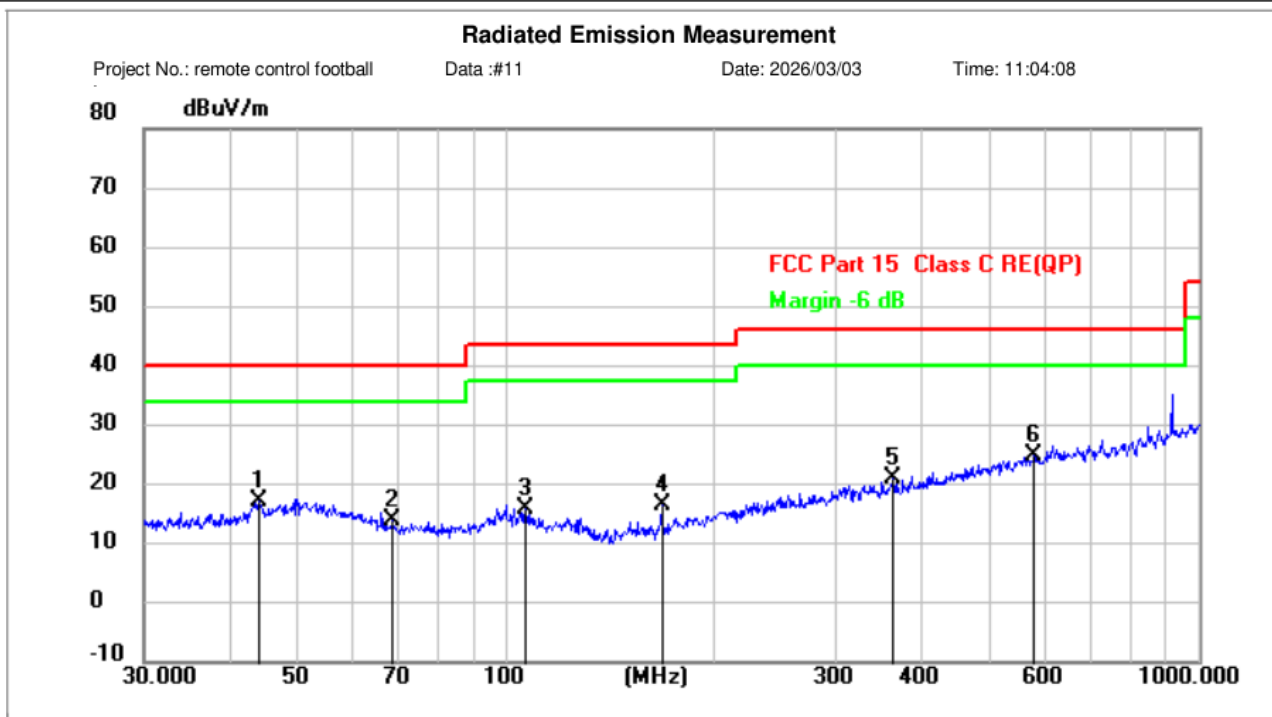
Operating Environment:					
Temperature :	21.2 °C	Humidity:	49 %	Atmospheric Pressure:	101.4 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.5.2. Test Setup Diagram:



6.5.3. Test Data

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: L



Site LAB

Limit: FCC Part 15 Class C RE(QP)

EUT: remote control football toy

M/N:

Mode: 2420

Note:

Polarization: **Horizontal**

Power:

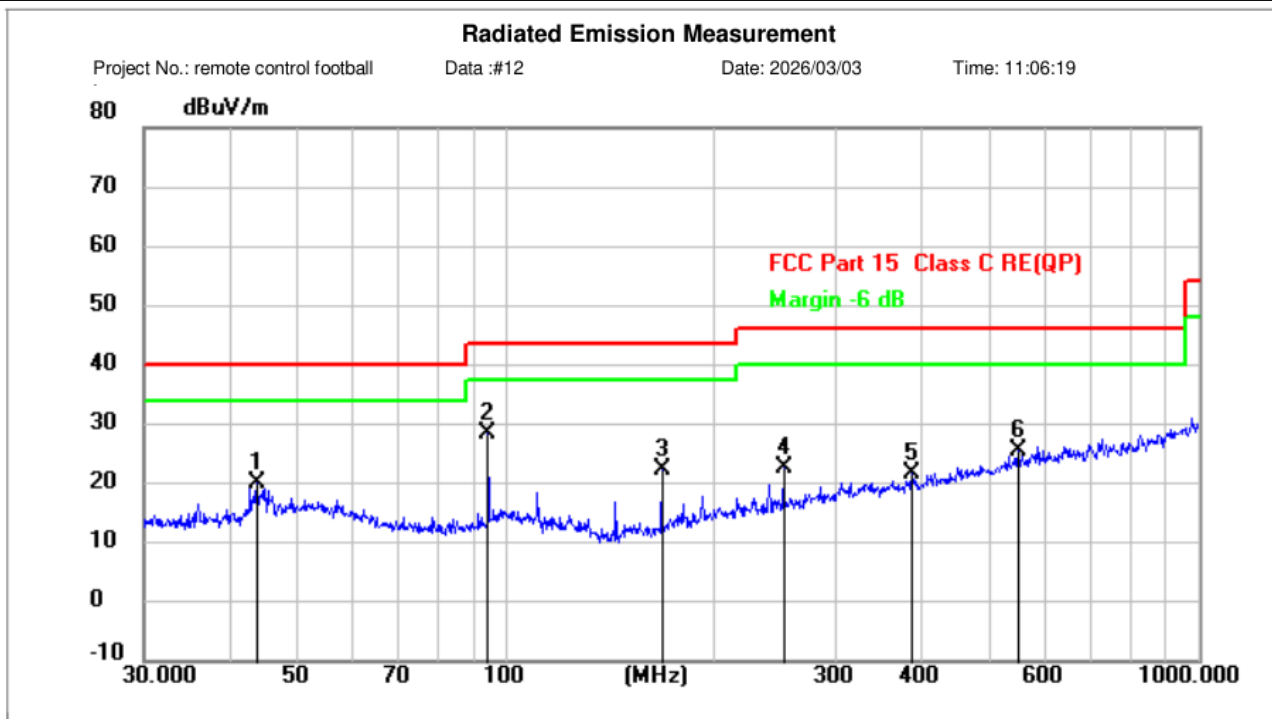
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	44.1202	28.26	-10.94	17.32	40.00	-22.68	peak	100	360	P	
2	68.6310	26.98	-13.09	13.89	40.00	-26.11	peak	100	360	P	
3	106.7587	27.73	-11.75	15.98	43.50	-27.52	peak	100	360	P	
4	167.8243	29.44	-13.03	16.41	43.50	-27.09	peak	100	360	P	
5	362.9844	27.49	-6.54	20.95	46.00	-25.05	peak	100	360	P	
6 *	578.6699	26.85	-1.86	24.99	46.00	-21.01	peak	100	360	P	

TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: L



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Part 15 Class C RE(QP)

Power:

Humidity: 54 %RH

EUT: remote control football toy

Distance: 3m

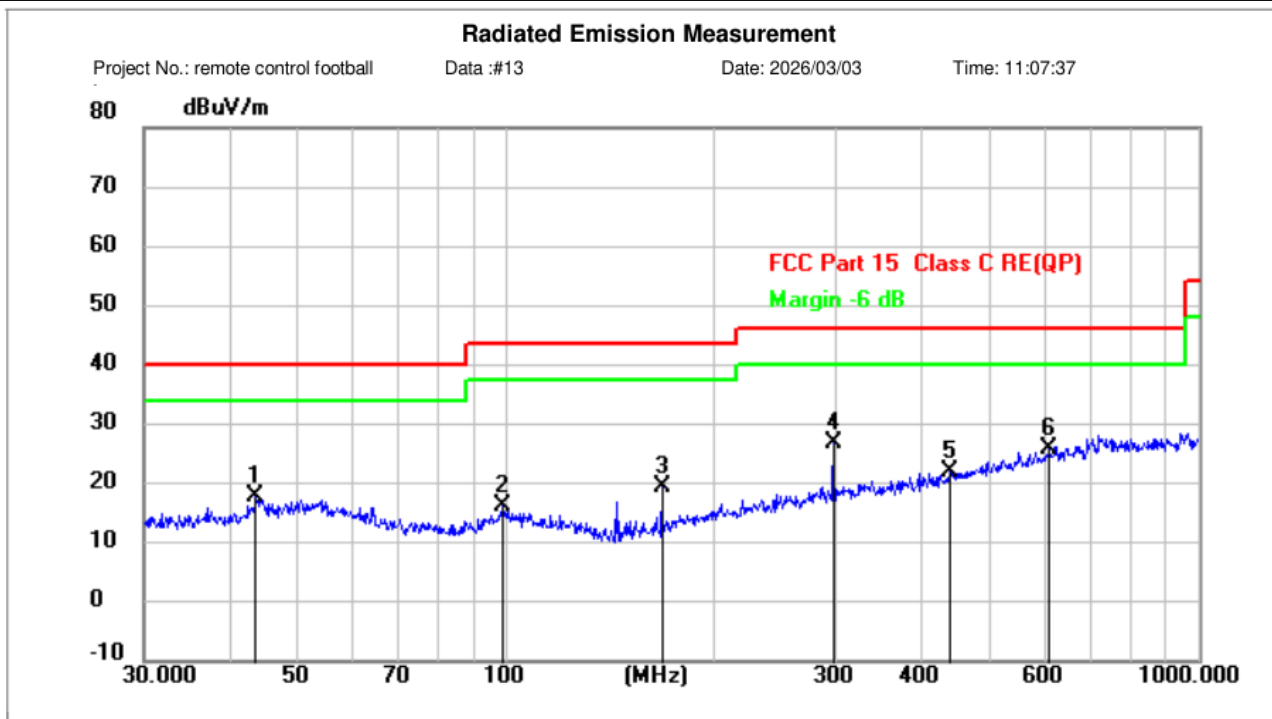
M/N:

Mode: 2420

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.6584	31.17	-10.98	20.19	40.00	-19.81	peak	100	360	P	
2 *	94.0979	40.90	-12.49	28.41	43.50	-15.09	peak	100	360	P	
3	167.8243	35.35	-13.03	22.32	43.50	-21.18	peak	100	360	P	
4	252.0627	32.09	-9.32	22.77	46.00	-23.23	peak	100	360	P	
5	385.2805	27.79	-6.14	21.65	46.00	-24.35	peak	100	360	P	
6	550.9480	27.82	-2.40	25.42	46.00	-20.58	peak	100	360	P	

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: M



Site LAB

Limit: FCC Part 15 Class C RE(QP)

EUT: remote control football toy

M/N:

Mode: 2440

Note:

Polarization: **Horizontal**

Power:

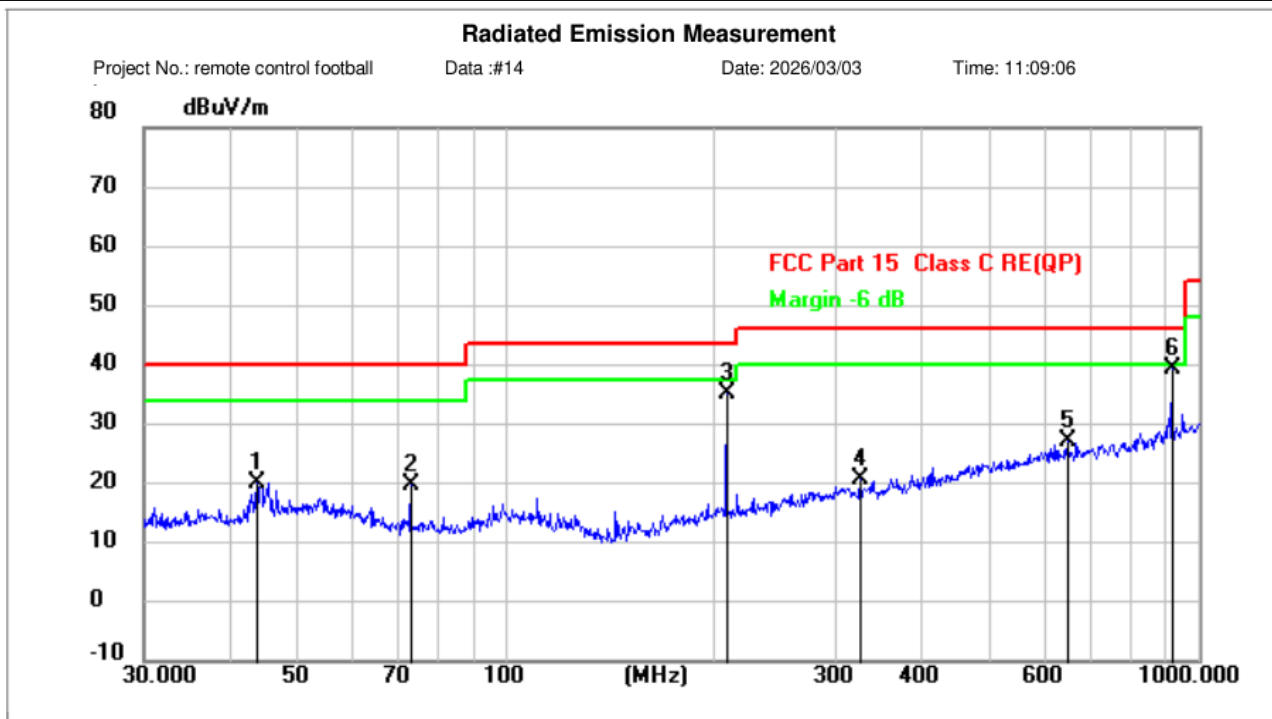
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.5057	28.82	-11.00	17.82	40.00	-22.18	peak	100	0	P	
2	99.1797	27.99	-11.90	16.09	43.50	-27.41	peak	100	0	P	
3	167.8243	32.45	-13.03	19.42	43.50	-24.08	peak	100	0	P	
4 *	297.2241	34.51	-7.74	26.77	46.00	-19.23	peak	100	0	P	
5	437.1199	27.07	-4.96	22.11	46.00	-23.89	peak	100	0	P	
6	609.9217	27.14	-1.37	25.77	46.00	-20.23	peak	100	0	P	

TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: M



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Part 15 Class C RE(QP)

Power:

Humidity: 54 %RH

EUT: remote control football toy

Distance: 3m

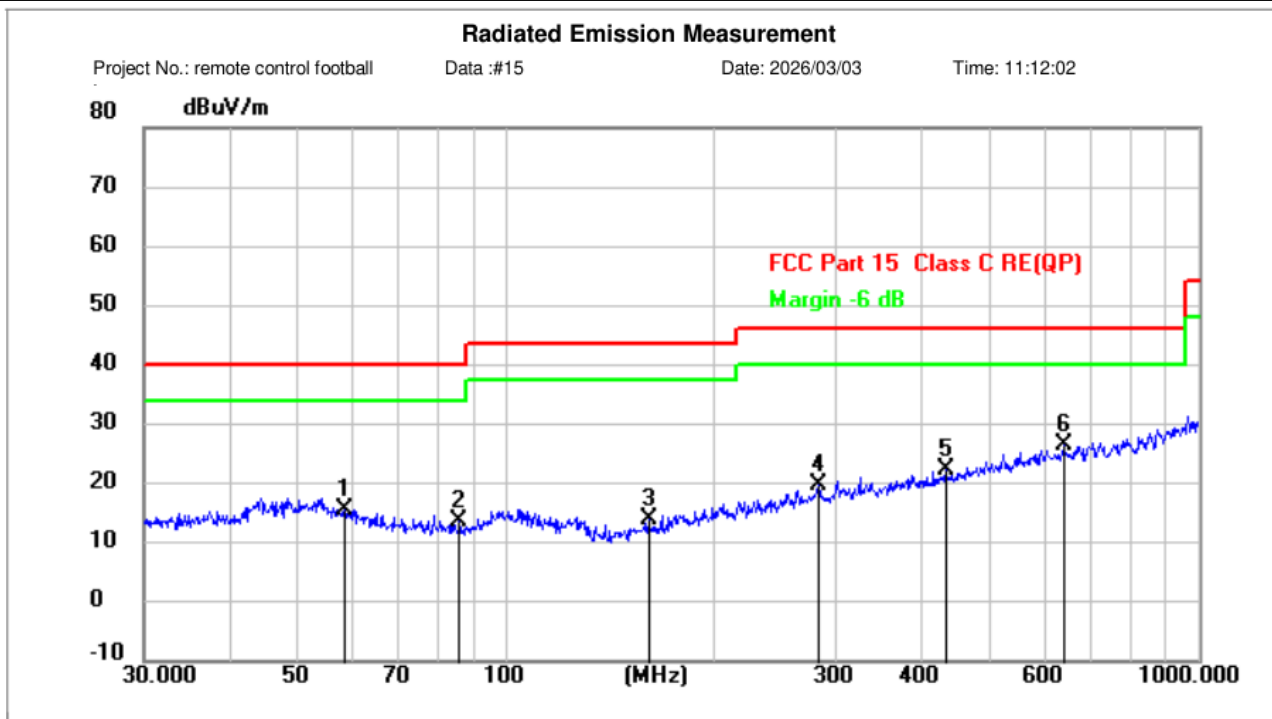
M/N:

Mode: 2440

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.6584	30.99	-10.98	20.01	40.00	-19.99	peak	100	360	P	
2	72.8466	33.38	-13.57	19.81	40.00	-20.19	peak	100	360	P	
3	208.5803	46.06	-10.83	35.23	43.50	-8.27	peak	100	360	P	
4	324.4561	27.87	-7.22	20.65	46.00	-25.35	peak	100	360	P	
5	647.3856	28.11	-1.08	27.03	46.00	-18.97	peak	100	360	P	
6 *	916.0687	37.88	1.30	39.18	46.00	-6.82	peak	100	360	P	

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: H



Site LAB

Limit: FCC Part 15 Class C RE(QP)

EUT: remote control football toy

M/N:

Mode: 2460

Note:

Polarization: **Horizontal**

Power:

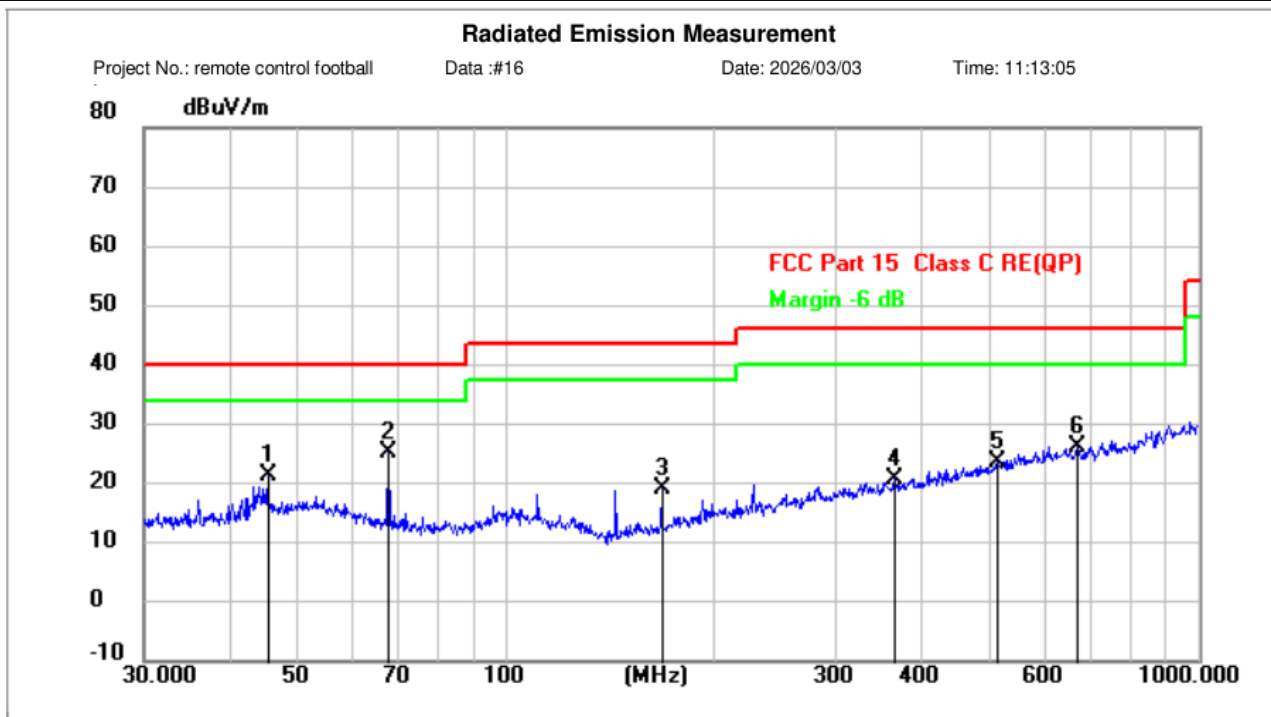
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	58.4074	26.59	-10.89	15.70	40.00	-24.30	peak	100	360	P	
2	85.5977	26.94	-13.40	13.54	40.00	-26.46	peak	100	360	P	
3	160.9089	27.35	-13.35	14.00	43.50	-29.50	peak	100	360	P	
4	281.9946	27.90	-8.28	19.62	46.00	-26.38	peak	100	360	P	
5	431.0316	27.56	-5.11	22.45	46.00	-23.55	peak	100	360	P	
6 *	638.3686	27.55	-1.16	26.39	46.00	-19.61	peak	100	360	P	

TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: H



Site LAB

Limit: FCC Part 15 Class C RE(QP)

EUT: remote control football toy

M/N:

Mode: 2460

Note:

Polarization: **Vertical**

Power:

Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.3755	32.32	-10.82	21.50	40.00	-18.50	peak	100	0	P	
2 *	67.6751	38.08	-12.85	25.23	40.00	-14.77	peak	100	0	P	
3	167.8243	32.04	-13.03	19.01	43.50	-24.49	peak	100	0	P	
4	364.2595	27.06	-6.51	20.55	46.00	-25.45	peak	100	0	P	
5	513.6331	26.73	-3.13	23.60	46.00	-22.40	peak	100	0	P	
6	670.4893	27.24	-0.92	26.32	46.00	-19.68	peak	100	0	P	

6.6. Emissions in frequency bands (above 1GHz)

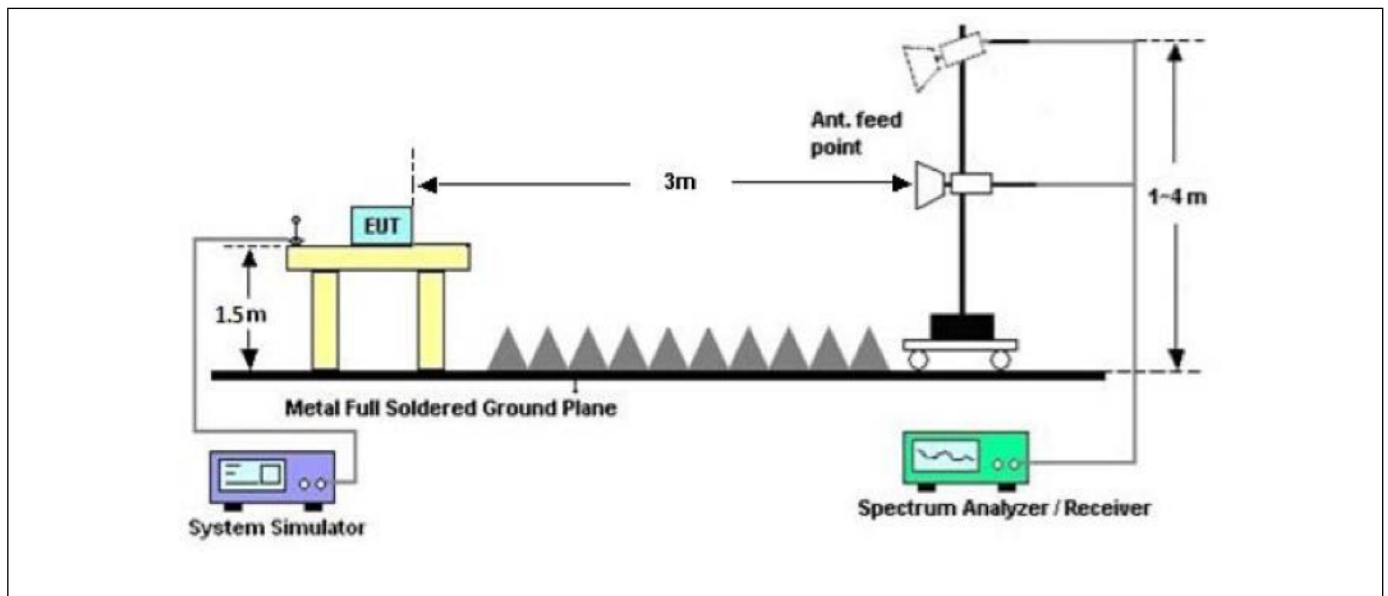
Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																																								
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following: <table border="1"> <thead> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> </thead> <tbody> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </tbody> </table> Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation. <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak		Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																																							
902-928 MHz	50	500																																							
2400-2483.5 MHz	50	500																																							
5725-5875 MHz	50	500																																							
24.0-24.25 GHz	250	2500																																							
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																																							
0.009-0.490	2400/F(kHz)	300																																							
0.490-1.705	24000/F(kHz)	30																																							
1.705-30.0	30	30																																							
30-88	100 **	3																																							
88-216	150 **	3																																							
216-960	200 **	3																																							
Above 960	500	3																																							

	field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
Test Method:	ANSI C63.10:2020 section 6.6
Procedure:	ANSI C63.10:2020 section 6.6

6.6.1. EUT Operation

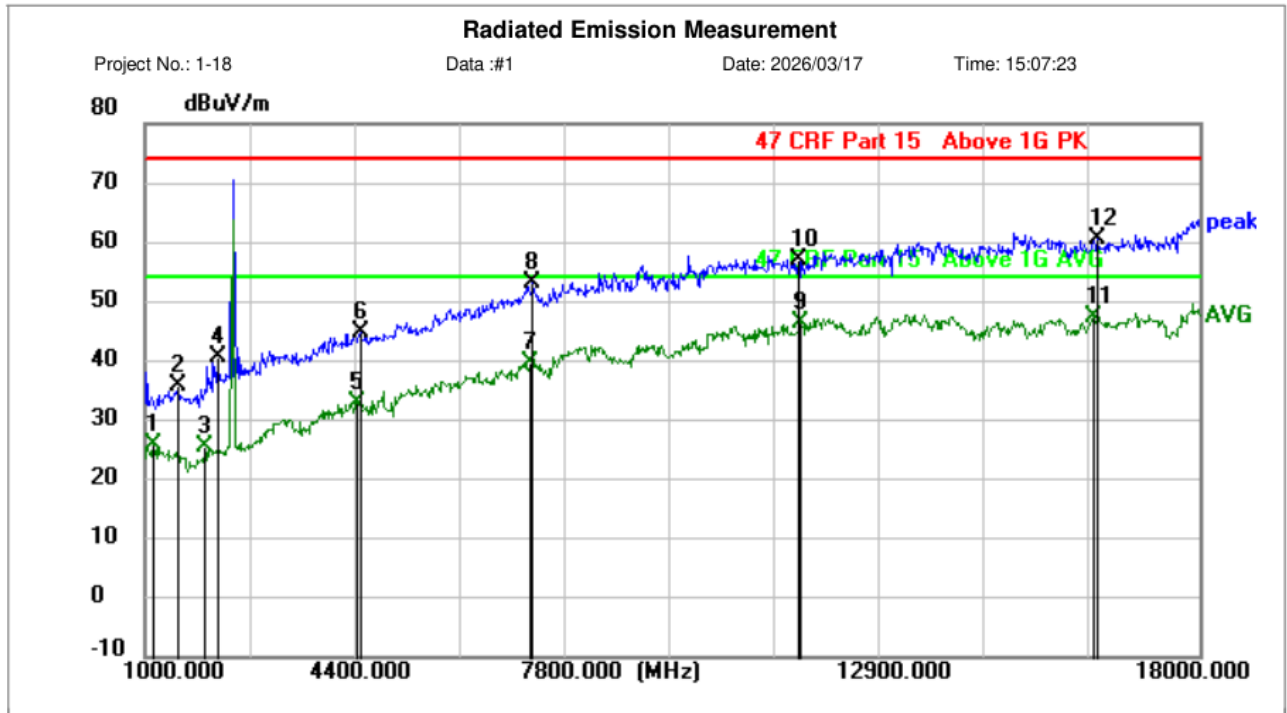
Operating Environment:					
Temperature :	21.2 °C	Humidity:	52.1 %	Atmospheric Pressure:	101.4 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

6.6.2. Test Setup Diagram:



6.6.3. Test Data

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: L



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2420

Mode:

Note:

Polarization: **Horizontal**

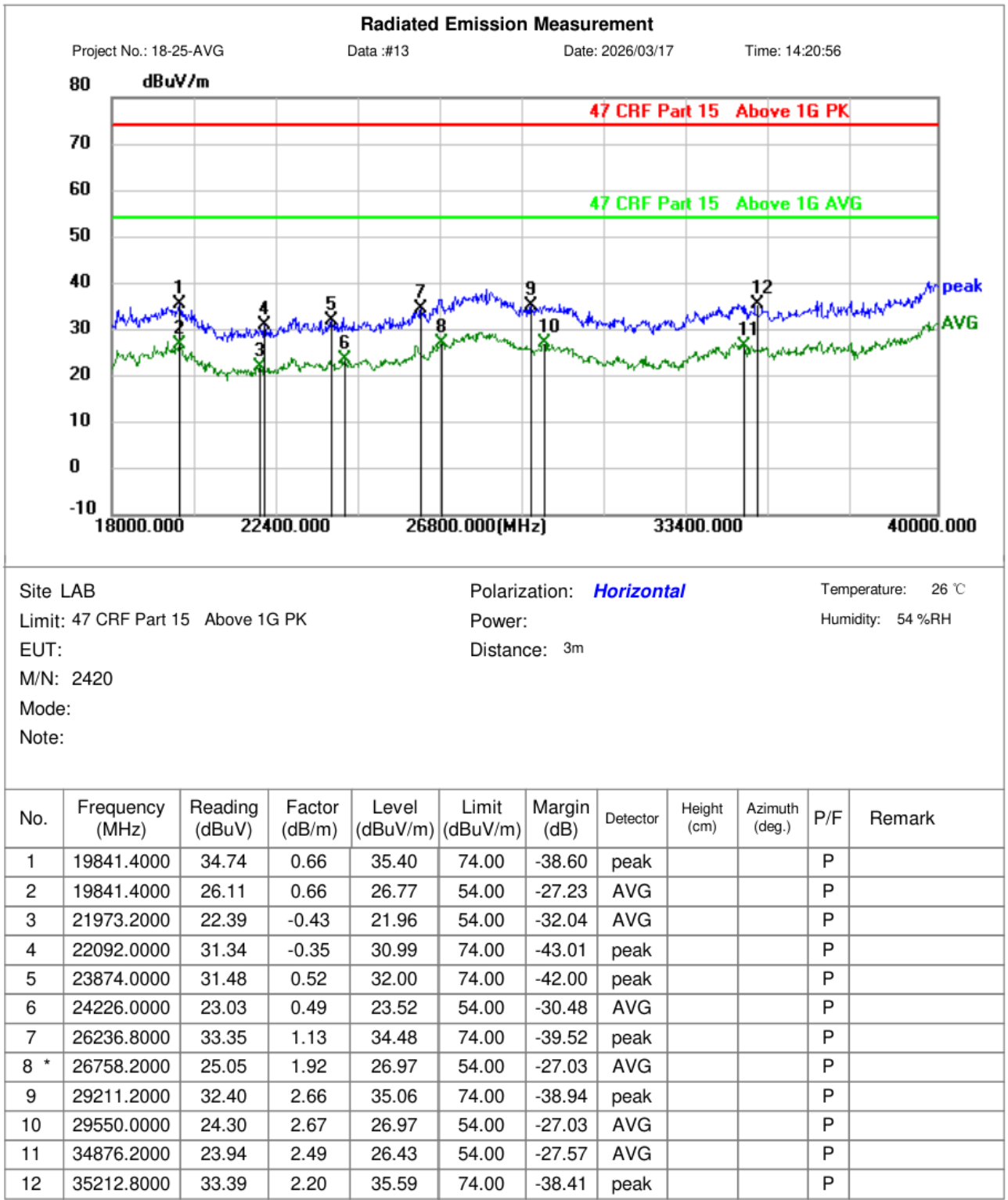
Power:

Distance: 3m

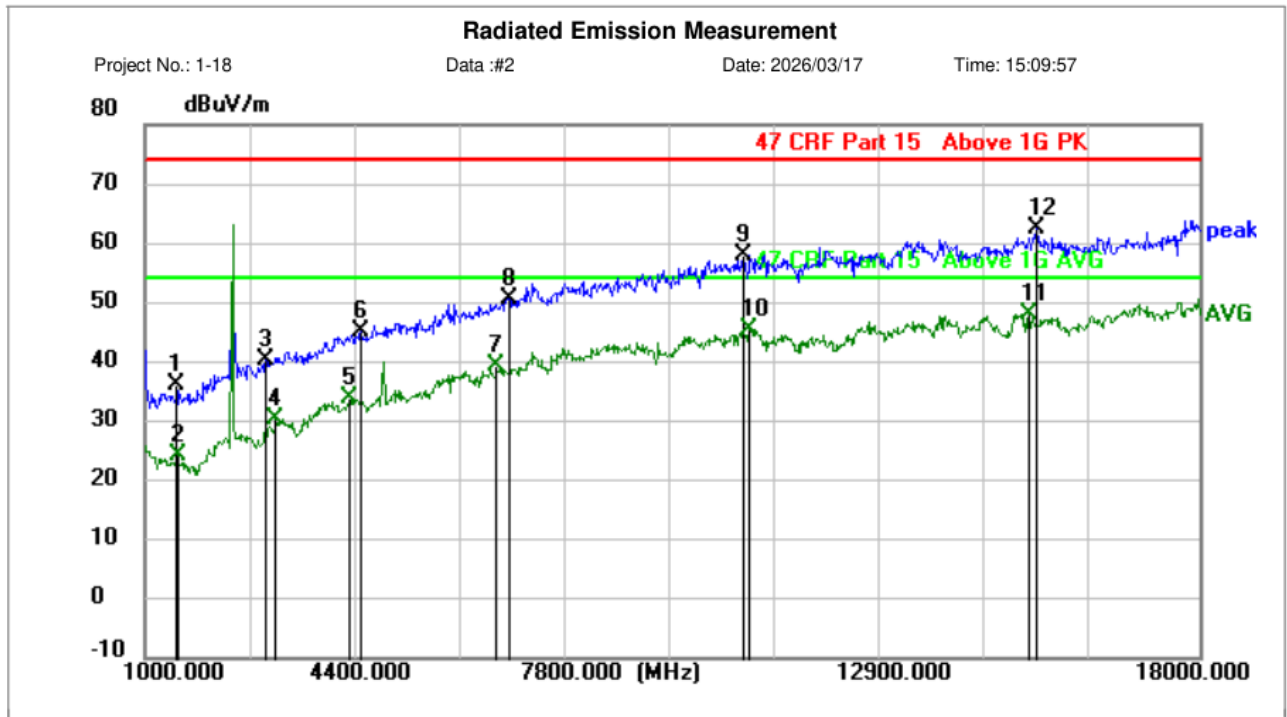
Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1122.4000	51.32	-25.48	25.84	54.00	-28.16	AVG	100	0	P	
2	1544.0000	60.90	-25.18	35.72	74.00	-38.28	peak	100	0	P	
3	1975.8000	49.63	-24.24	25.39	54.00	-28.61	AVG	100	0	P	
4	2184.9000	63.81	-23.09	40.72	74.00	-33.28	peak	100	0	P	
5	4425.5000	50.89	-17.86	33.03	54.00	-20.97	AVG	100	0	P	
6	4452.7000	62.62	-17.78	44.84	74.00	-29.16	peak	100	0	P	
7	7220.3000	50.09	-10.35	39.74	54.00	-14.26	AVG	100	0	P	
8	7261.1000	63.36	-10.33	53.03	74.00	-20.97	peak	100	0	P	
9	11543.4000	47.69	-1.39	46.30	54.00	-7.70	AVG	100	0	P	
10	11555.3000	58.53	-1.42	57.11	74.00	-16.89	peak	100	0	P	
11 *	16296.6000	49.00	-1.67	47.33	54.00	-6.67	AVG	100	0	P	
12	16366.3000	62.18	-1.56	60.62	74.00	-13.38	peak	100	0	P	



TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: L



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2420

Mode:

Note:

Polarization: **Vertical**

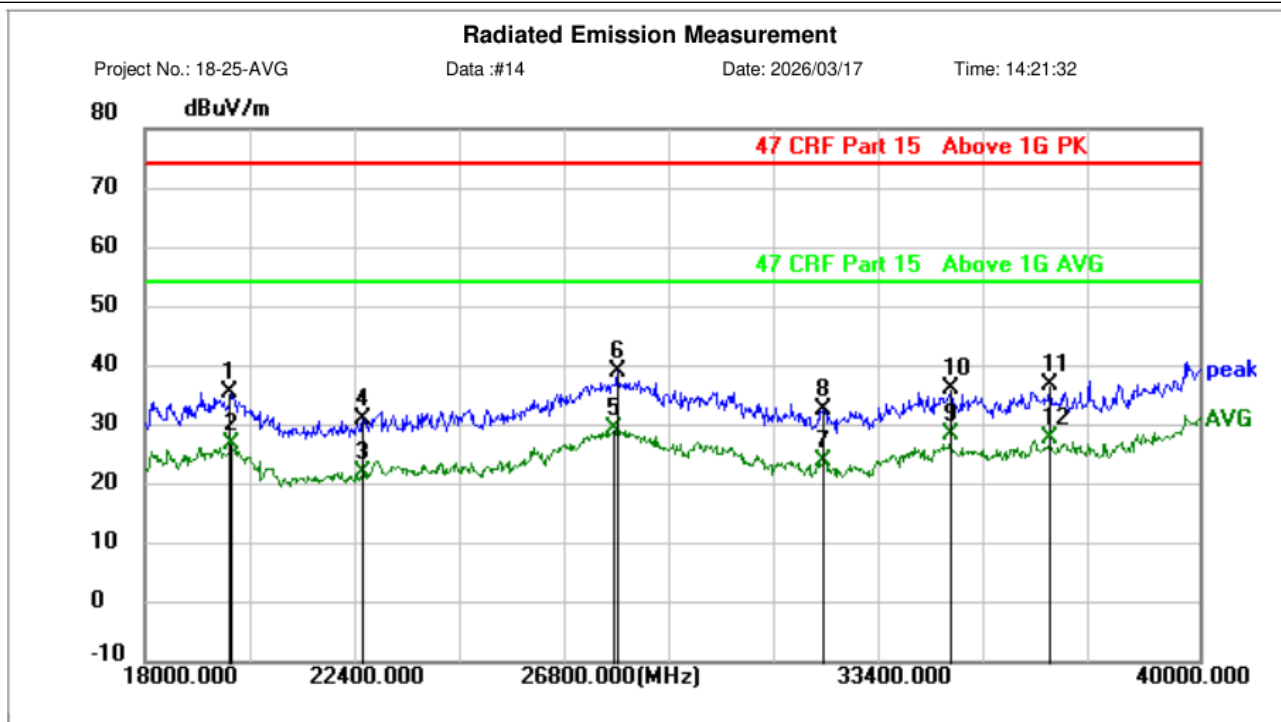
Power:

Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1498.1000	61.44	-25.20	36.24	74.00	-37.76	peak			P	
2	1530.4000	49.52	-25.19	24.33	54.00	-29.67	AVG			P	
3	2953.3000	61.05	-20.81	40.24	74.00	-33.76	peak			P	
4	3108.0000	50.70	-20.30	30.40	54.00	-23.60	AVG			P	
5	4313.3000	52.17	-18.33	33.84	54.00	-20.16	AVG			P	
6	4485.0000	62.84	-17.76	45.08	74.00	-28.92	peak			P	
7	6669.5000	50.86	-11.65	39.21	54.00	-14.79	AVG			P	
8	6849.7000	62.04	-11.40	50.64	74.00	-23.36	peak			P	
9	10669.6000	60.28	-2.29	57.99	74.00	-16.01	peak			P	
10	10735.9000	47.52	-2.03	45.49	54.00	-8.51	AVG			P	
11 *	15247.7000	48.86	-0.80	48.06	54.00	-5.94	AVG			P	
12	15380.3000	63.43	-1.06	62.37	74.00	-11.63	peak			P	



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2420

Mode:

Note:

Polarization: **Vertical**

Power:

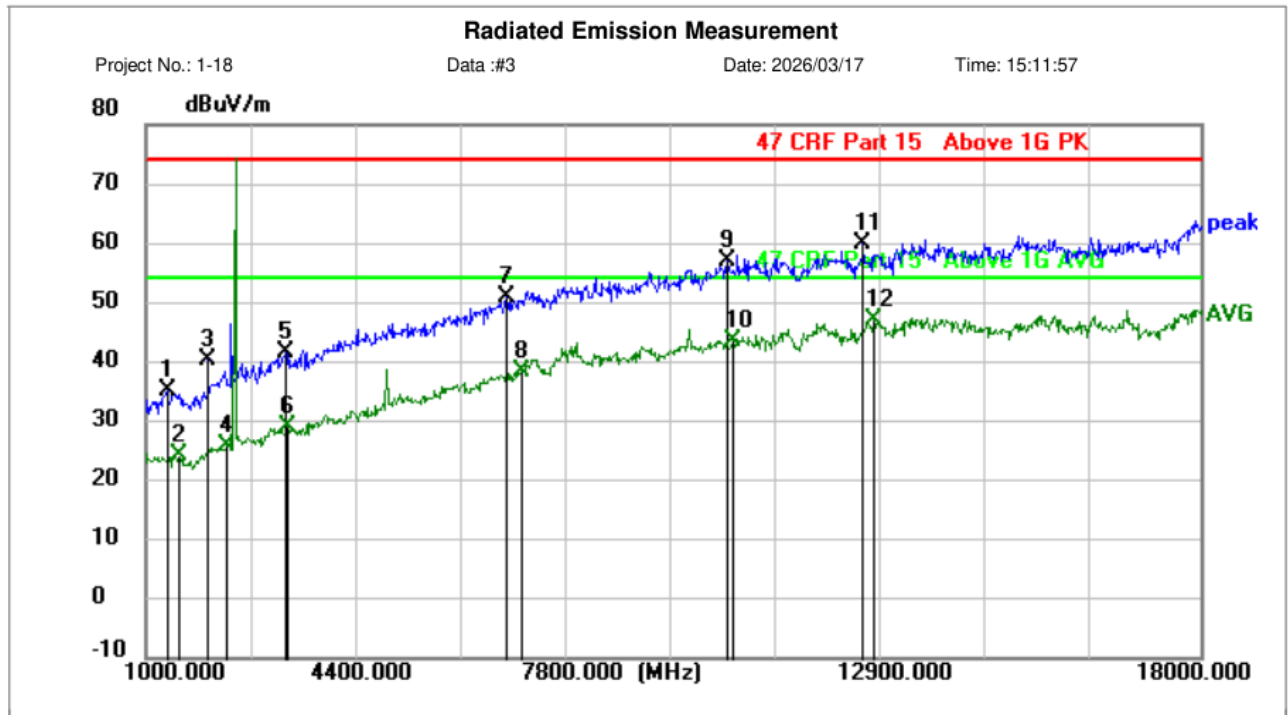
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19797.4000	34.72	0.65	35.37	74.00	-38.63	peak			P	
2	19821.6000	26.23	0.65	26.88	54.00	-27.12	AVG			P	
3	22536.4000	21.88	0.07	21.95	54.00	-32.05	AVG			P	
4	22573.8000	30.78	0.09	30.87	74.00	-43.13	peak			P	
5 *	27809.8000	26.19	3.23	29.42	54.00	-24.58	AVG			P	
6	27875.8000	35.63	3.32	38.95	74.00	-35.05	peak			P	
7	32168.0000	23.66	0.28	23.94	54.00	-30.06	AVG			P	
8	32190.0000	32.24	0.27	32.51	74.00	-41.49	peak			P	
9	34816.8000	25.79	2.47	28.26	54.00	-25.74	AVG			P	
10	34825.6000	33.50	2.48	35.98	74.00	-38.02	peak			P	
11	36891.4000	36.46	0.38	36.84	74.00	-37.16	peak			P	
12	36891.4000	27.30	0.38	27.68	54.00	-26.32	AVG			P	

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: M



Site LAB

Limit: 47 CFR Part 15 Above 1G PK

EUT:

M/N: 2440

Mode:

Note:

Polarization: **Horizontal**

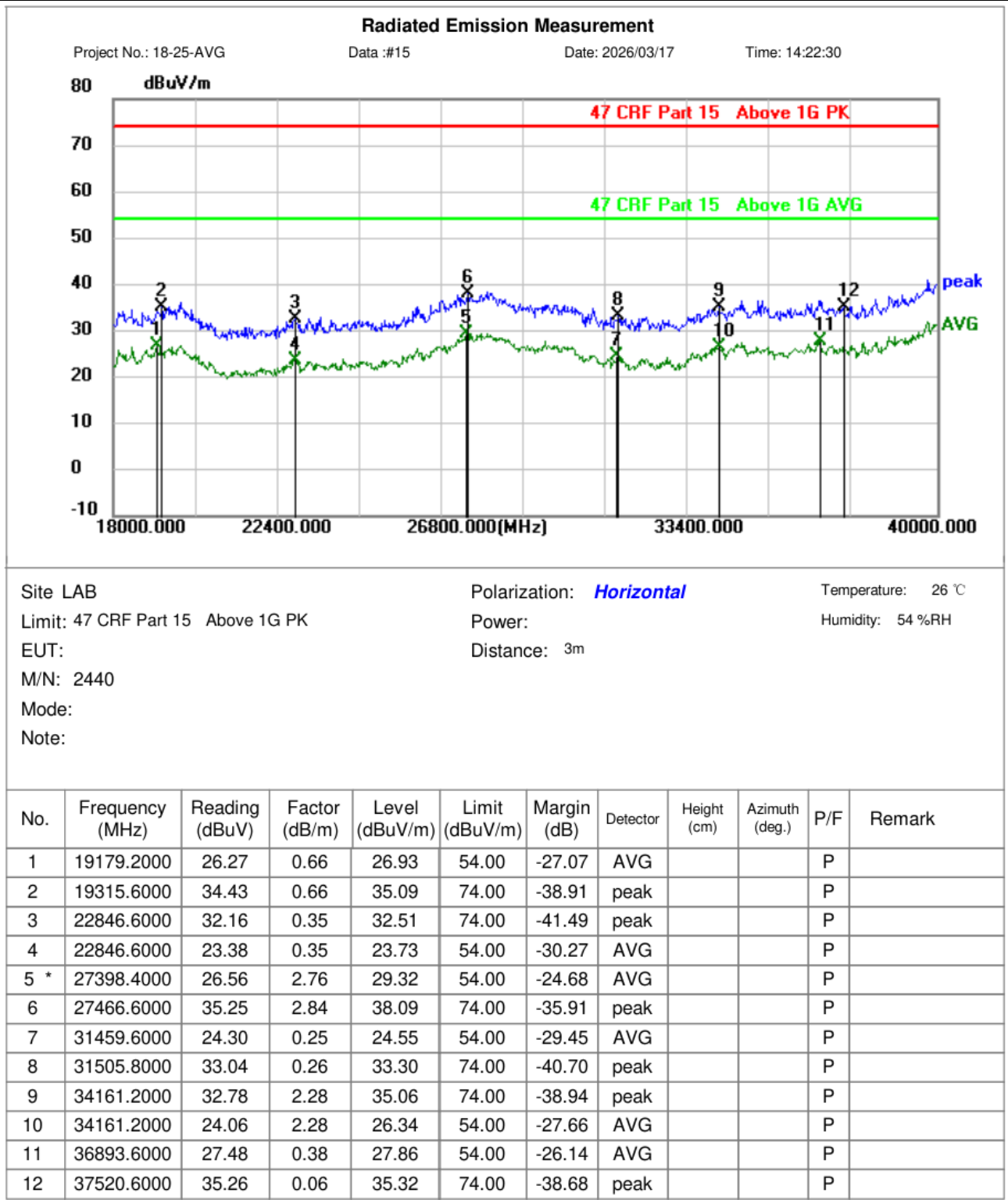
Power:

Distance: 3m

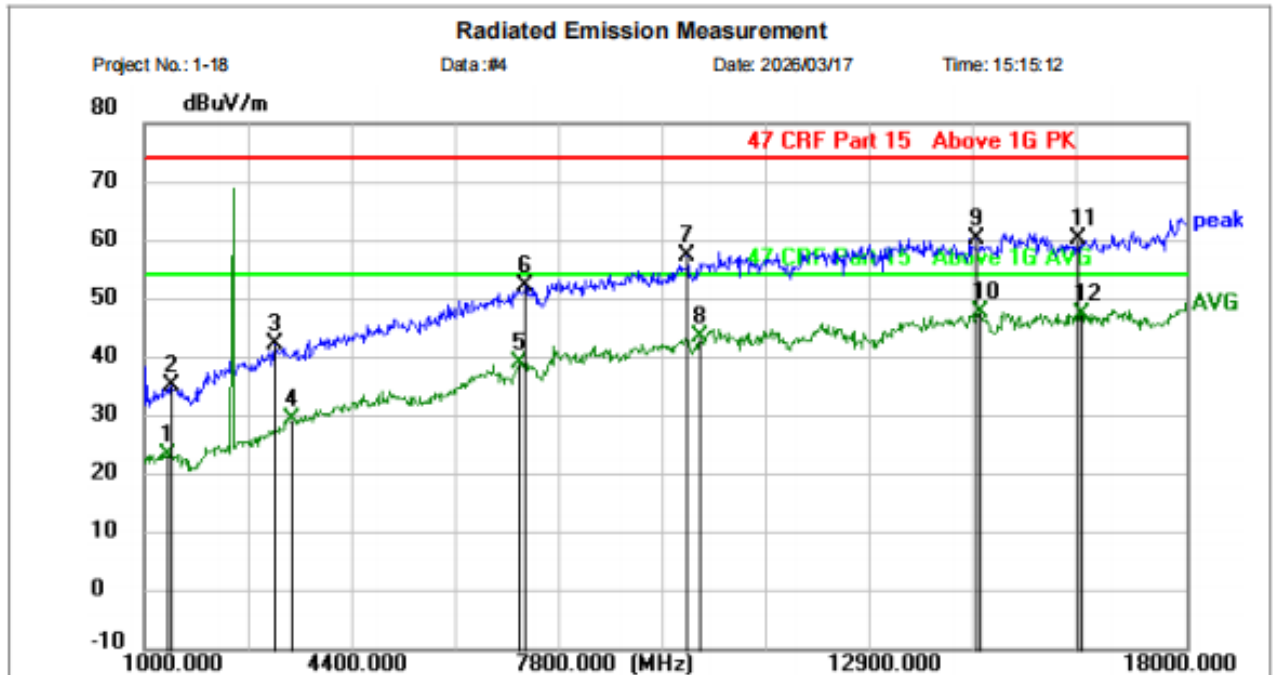
Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1328.1000	60.41	-25.31	35.10	74.00	-38.90	peak			P	
2	1542.3000	49.50	-25.18	24.32	54.00	-29.68	AVG			P	
3	1989.4000	64.29	-24.12	40.17	74.00	-33.83	peak			P	
4	2317.5000	48.96	-23.04	25.92	54.00	-28.08	AVG			P	
5	3247.4000	61.84	-20.28	41.56	74.00	-32.44	peak			P	
6	3310.3000	49.27	-20.36	28.91	54.00	-25.09	AVG			P	
7	6825.9000	62.26	-11.42	50.84	74.00	-23.16	peak			P	
8	7043.5000	49.40	-11.08	38.32	54.00	-15.68	AVG			P	
9	10372.1000	60.37	-3.23	57.14	74.00	-16.86	peak			P	
10	10445.2000	46.67	-3.06	43.61	54.00	-10.39	AVG			P	
11	12558.3000	62.36	-2.60	59.76	74.00	-14.24	peak			P	
12 *	12758.9000	49.79	-2.58	47.21	54.00	-6.79	AVG			P	



TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: M



Site LAB

Limit: 47 CFR Part 15 Above 1G PK

EUT:

M/N: 2440

Mode:

Note:

Polarization: **Vertical**

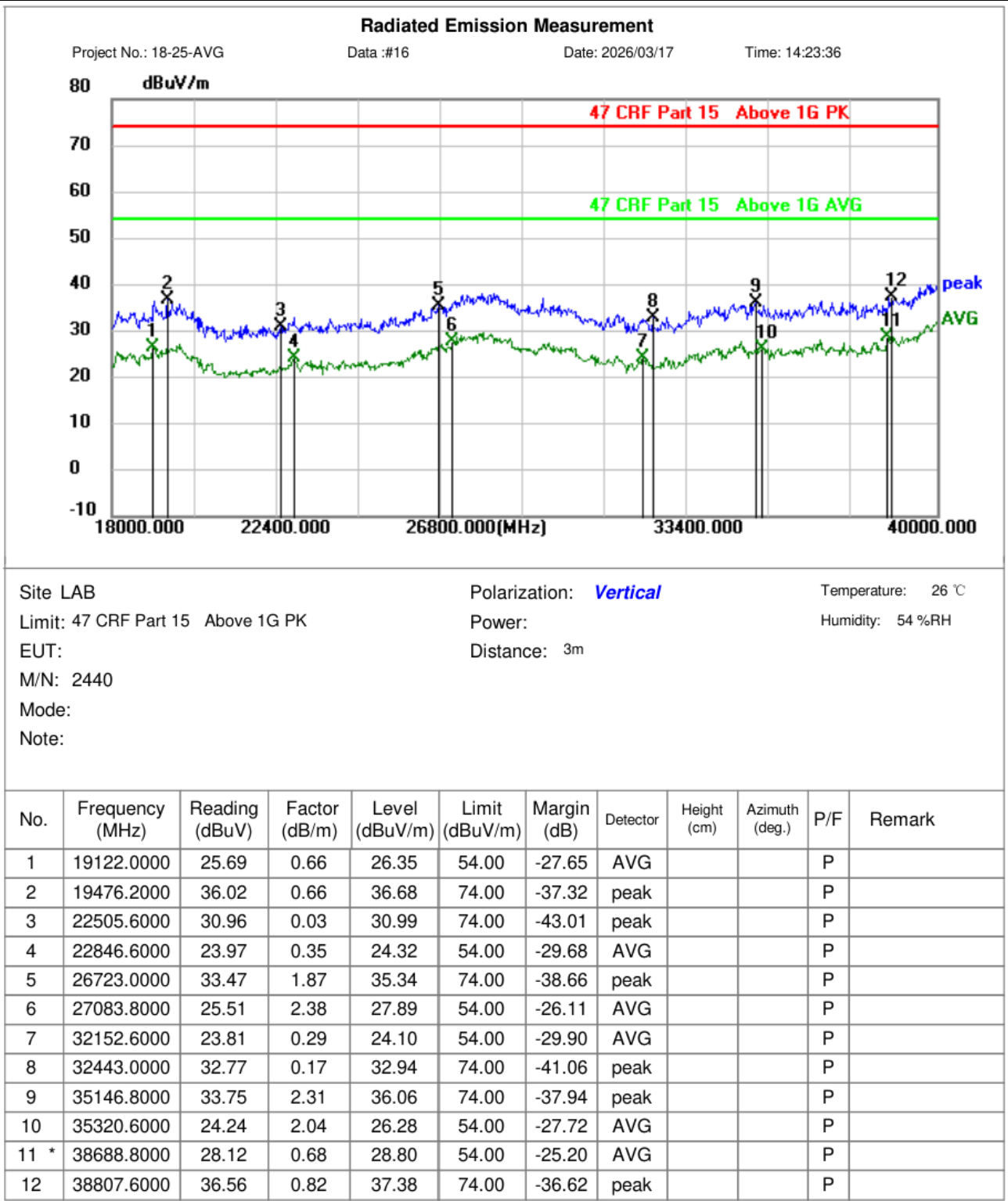
Power:

Distance: 3m

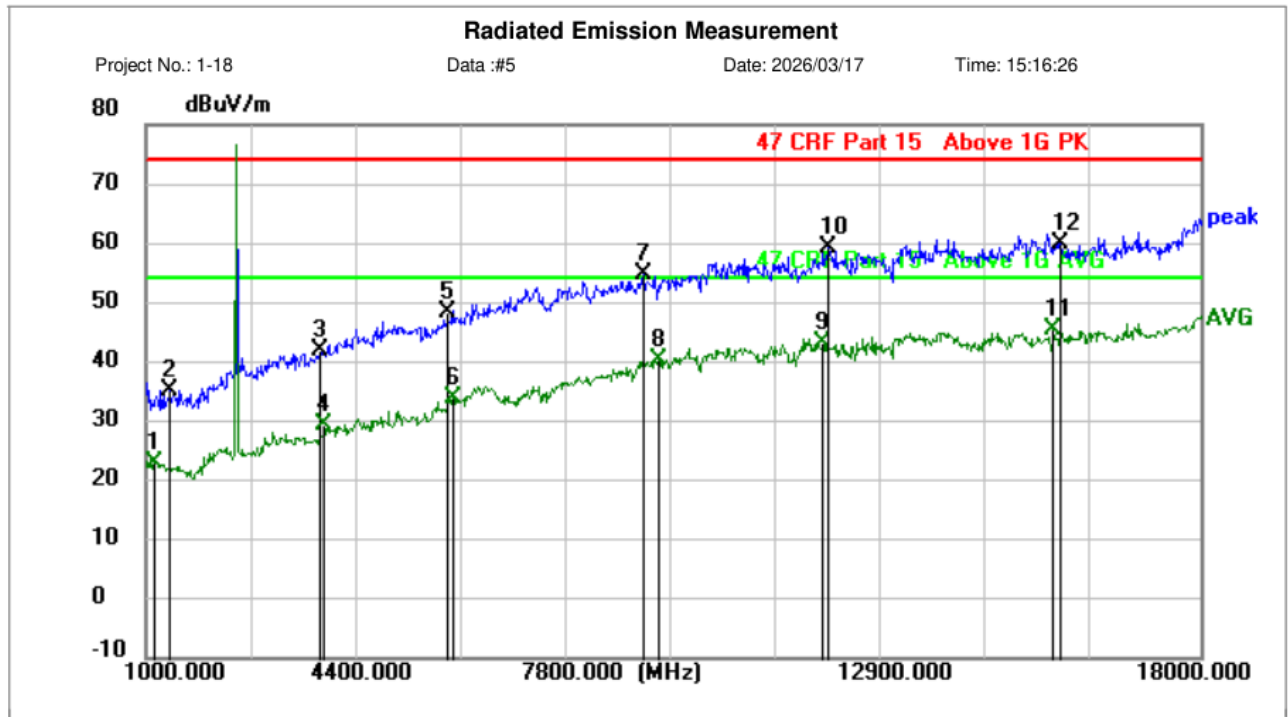
Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1385.9000	48.73	-25.33	23.40	54.00	-30.60	AVG			P	
2	1470.9000	60.51	-25.26	35.25	74.00	-38.75	peak			P	
3	3130.1000	62.42	-20.30	42.12	74.00	-31.88	peak			P	
4	3420.8000	49.75	-20.26	29.49	54.00	-24.51	AVG			P	
5	7152.3000	49.65	-10.59	39.06	54.00	-14.94	AVG			P	
6	7230.5000	62.69	-10.34	52.35	74.00	-21.65	peak			P	
7	9843.4000	62.13	-4.73	57.40	74.00	-16.60	peak			P	
8	10072.9000	47.56	-4.12	43.44	54.00	-10.56	AVG			P	
9	14581.3000	61.84	-1.59	60.25	74.00	-13.75	peak			P	
10 *	14637.4000	49.12	-1.42	47.70	54.00	-6.30	AVG			P	
11	16260.9000	61.99	-1.73	60.26	74.00	-13.74	peak			P	
12	16294.9000	49.11	-1.68	47.43	54.00	-6.57	AVG			P	



TM1 / Polarization: Horizontal / Band: 2.4G / BW: 20 / CH: H



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2460

Mode:

Note:

Polarization: **Horizontal**

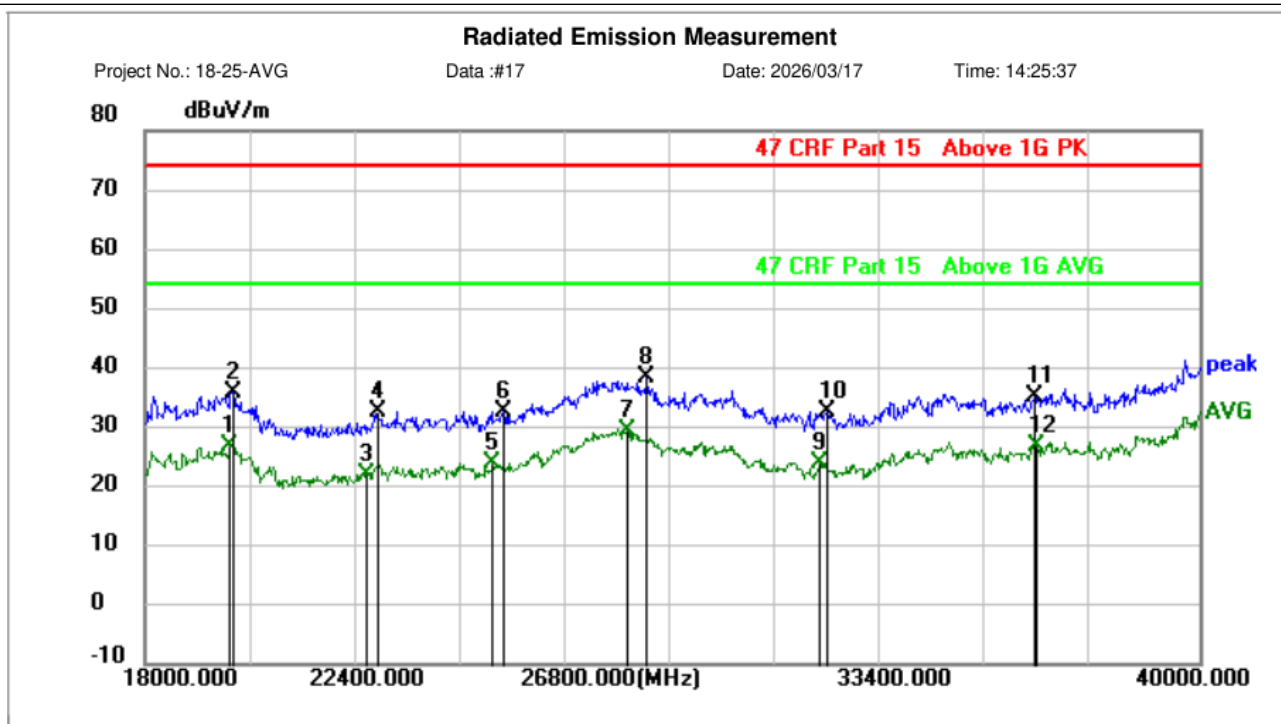
Power:

Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1168.3000	48.18	-25.26	22.92	54.00	-31.08	AVG			P	
2	1401.2000	60.57	-25.32	35.25	74.00	-38.75	peak			P	
3	3832.2000	61.06	-19.10	41.96	74.00	-32.04	peak			P	
4	3888.3000	48.25	-18.95	29.30	54.00	-24.70	AVG			P	
5	5877.3000	62.54	-14.16	48.38	74.00	-25.62	peak			P	
6	5960.6000	48.10	-14.24	33.86	54.00	-20.14	AVG			P	
7	9039.3000	60.05	-5.44	54.61	74.00	-19.39	peak			P	
8	9267.1000	45.27	-5.02	40.25	54.00	-13.75	AVG			P	
9	11914.0000	44.97	-1.89	43.08	54.00	-10.92	AVG			P	
10	12024.5000	61.01	-1.79	59.22	74.00	-14.78	peak			P	
11 *	15640.4000	46.79	-1.24	45.55	54.00	-8.45	AVG			P	
12	15761.1000	61.30	-1.48	59.82	74.00	-14.18	peak			P	



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2460

Mode:

Note:

Polarization: **Horizontal**

Power:

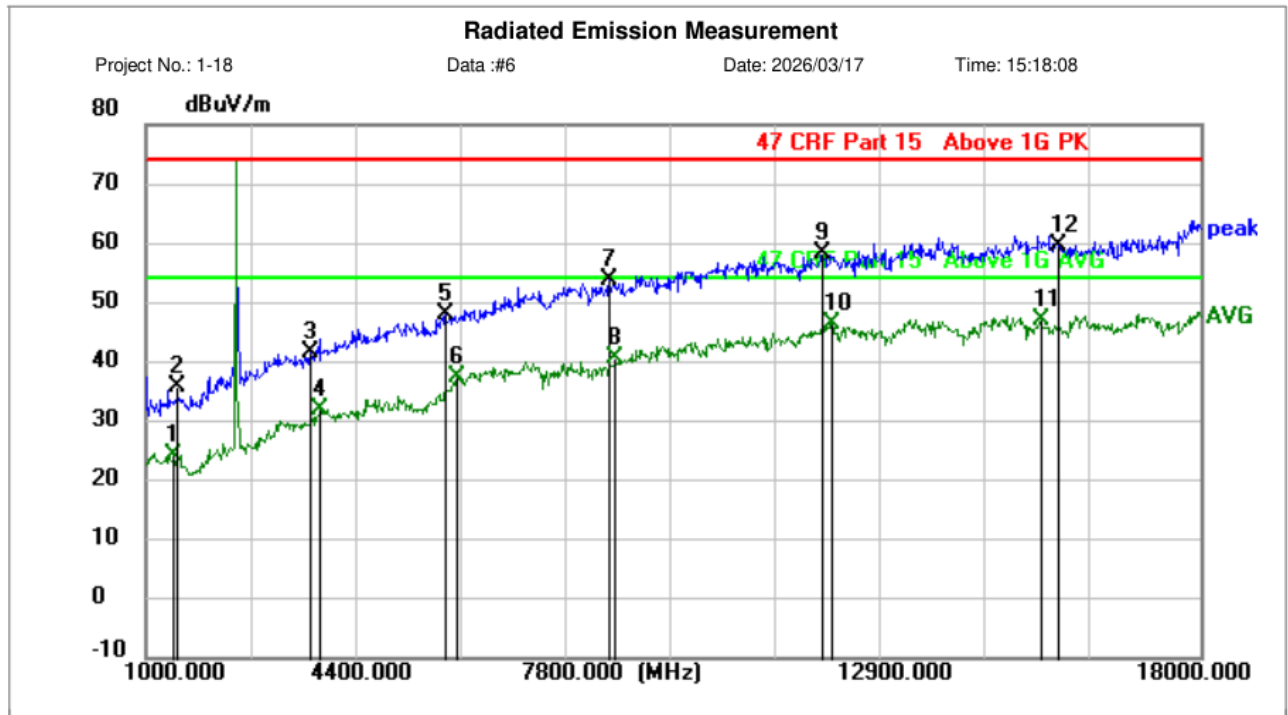
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	19788.6000	26.11	0.66	26.77	54.00	-27.23	AVG			P	
2	19832.6000	35.28	0.64	35.92	74.00	-38.08	peak			P	
3	22604.6000	21.91	0.12	22.03	54.00	-31.97	AVG			P	
4	22870.8000	32.25	0.37	32.62	74.00	-41.38	peak			P	
5	25273.2000	23.55	0.47	24.02	54.00	-29.98	AVG			P	
6	25510.8000	32.18	0.57	32.75	74.00	-41.25	peak			P	
7 *	28056.2000	25.84	3.42	29.26	54.00	-24.74	AVG			P	
8	28487.4000	35.29	3.08	38.37	74.00	-35.63	peak			P	
9	32071.2000	23.68	0.32	24.00	54.00	-30.00	AVG			P	
10	32214.2000	32.26	0.26	32.52	74.00	-41.48	peak			P	
11	36583.4000	34.53	0.58	35.11	74.00	-38.89	peak			P	
12	36618.6000	26.12	0.56	26.68	54.00	-27.32	AVG			P	

TM1 / Polarization: Vertical / Band: 2.4G / BW: 20 / CH: H



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2460

Mode:

Note:

Polarization: **Vertical**

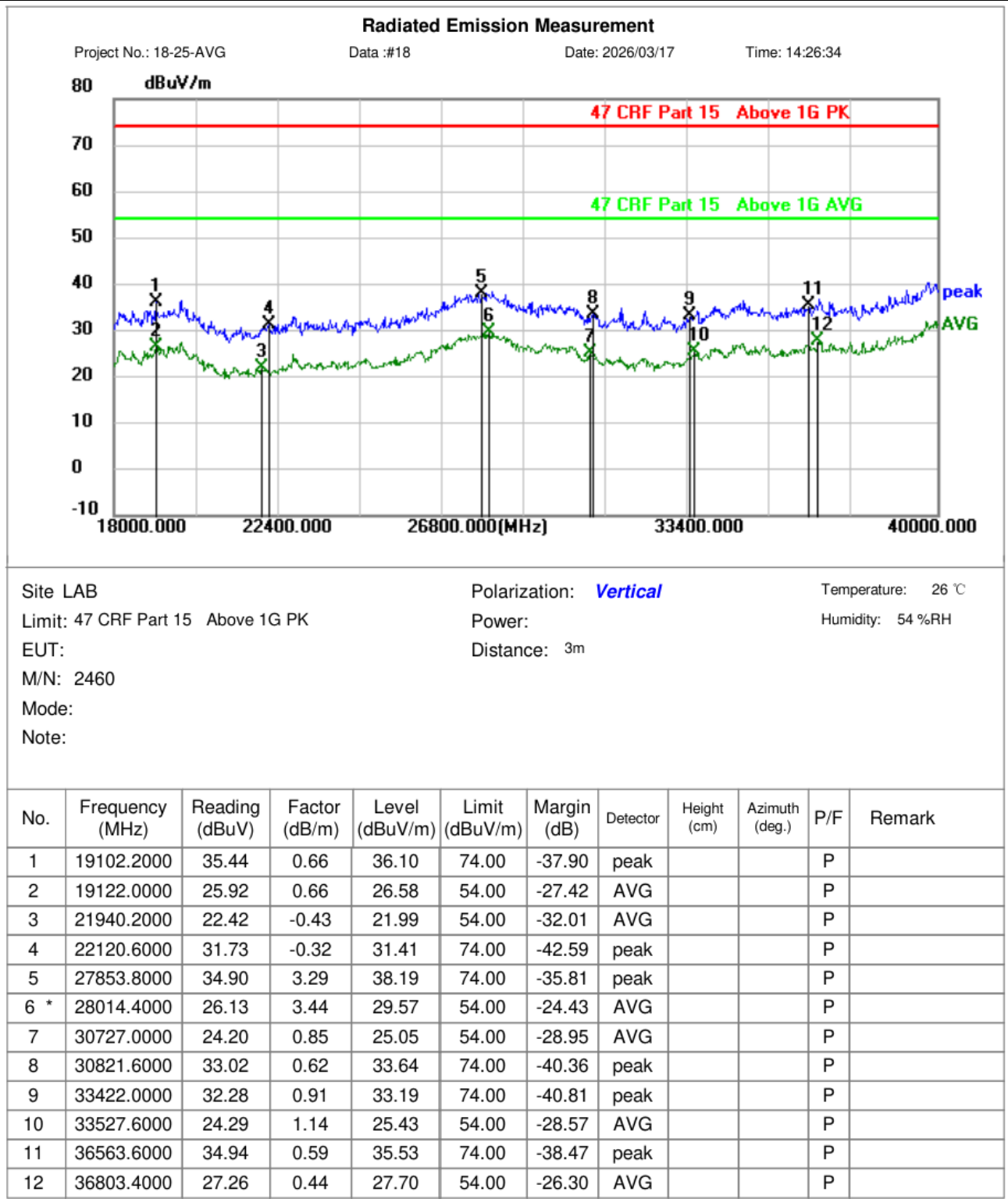
Power:

Distance: 3m

Temperature: 26 °C

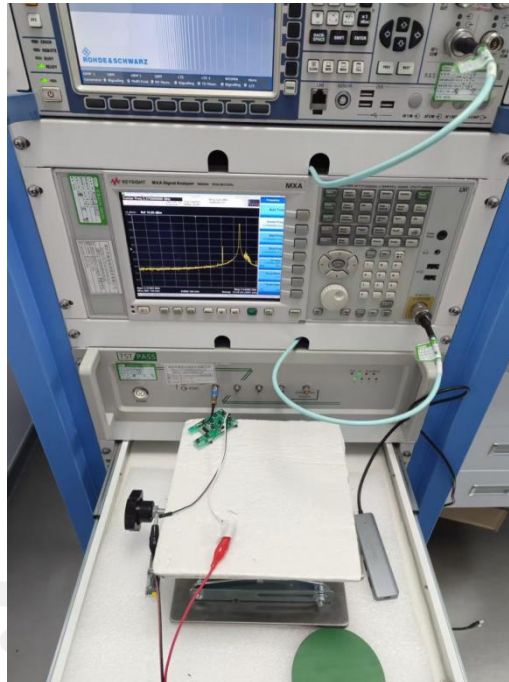
Humidity: 54 %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	1452.2000	49.66	-25.31	24.35	54.00	-29.65	AVG			P	
2	1506.6000	61.12	-25.20	35.92	74.00	-38.08	peak			P	
3	3645.2000	61.87	-20.14	41.73	74.00	-32.27	peak			P	
4	3816.9000	51.03	-19.16	31.87	54.00	-22.13	AVG			P	
5	5845.0000	62.08	-14.15	47.93	74.00	-26.07	peak			P	
6	6020.1000	51.48	-14.19	37.29	54.00	-16.71	AVG			P	
7	8486.8000	61.53	-7.78	53.75	74.00	-20.25	peak			P	
8	8582.0000	47.87	-7.27	40.60	54.00	-13.40	AVG			P	
9	11910.6000	60.34	-1.89	58.45	74.00	-15.55	peak			P	
10	12060.2000	48.24	-1.79	46.45	54.00	-7.55	AVG			P	
11 *	15429.6000	48.29	-1.15	47.14	54.00	-6.86	AVG			P	
12	15713.5000	61.08	-1.36	59.72	74.00	-14.28	peak			P	



7. TEST SETUP PHOTOS

Occupied Bandwidth



Emissions in frequency bands (below 1GHz)

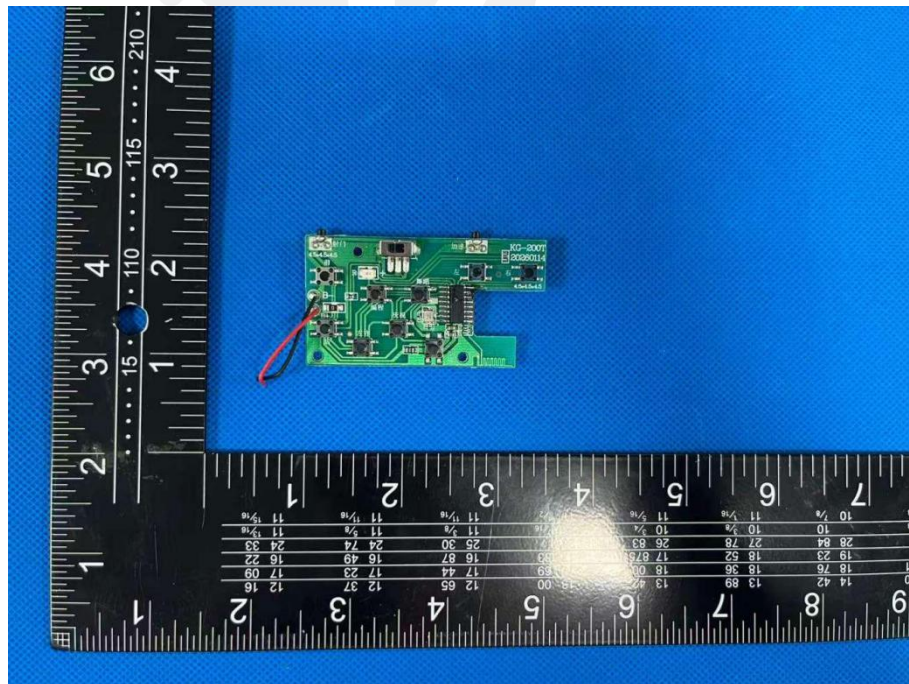
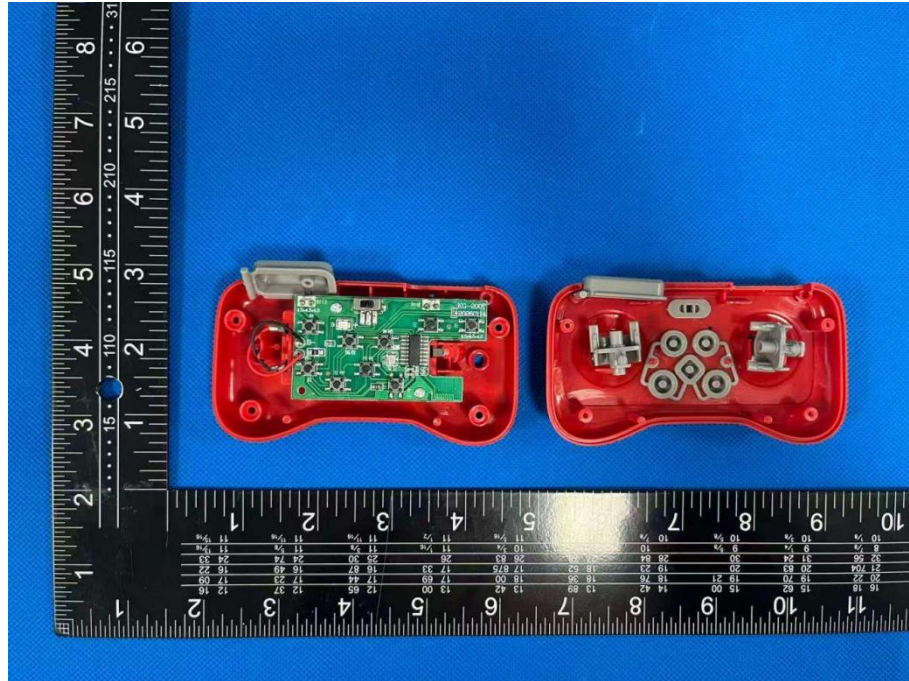


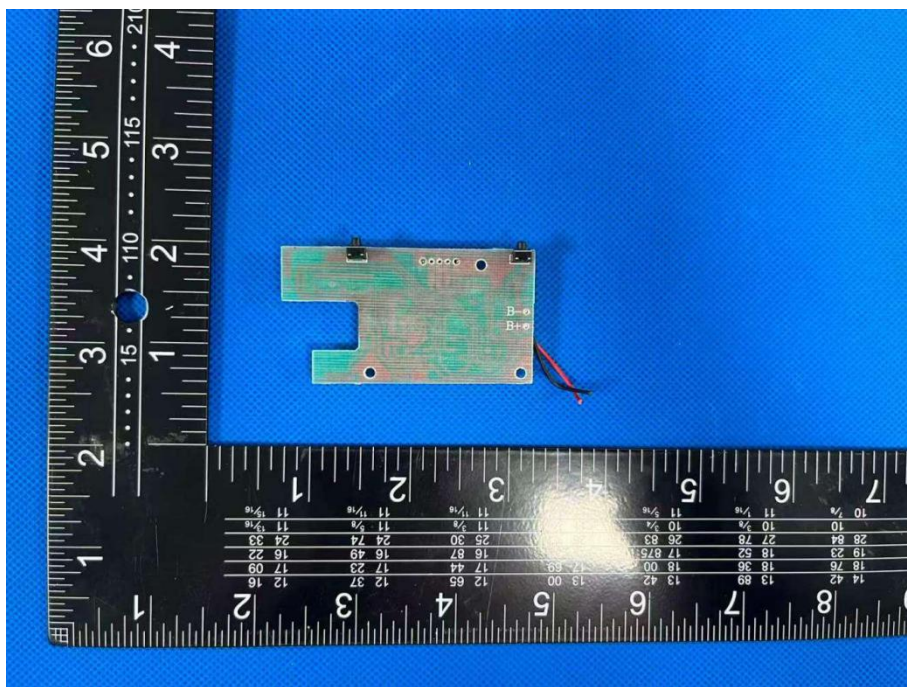
Emissions in frequency bands (above 1GHz)





EUT Internal photos





9. Appendix Report

1. Bandwidth

1.1 Test Result

1.1.1 OBW

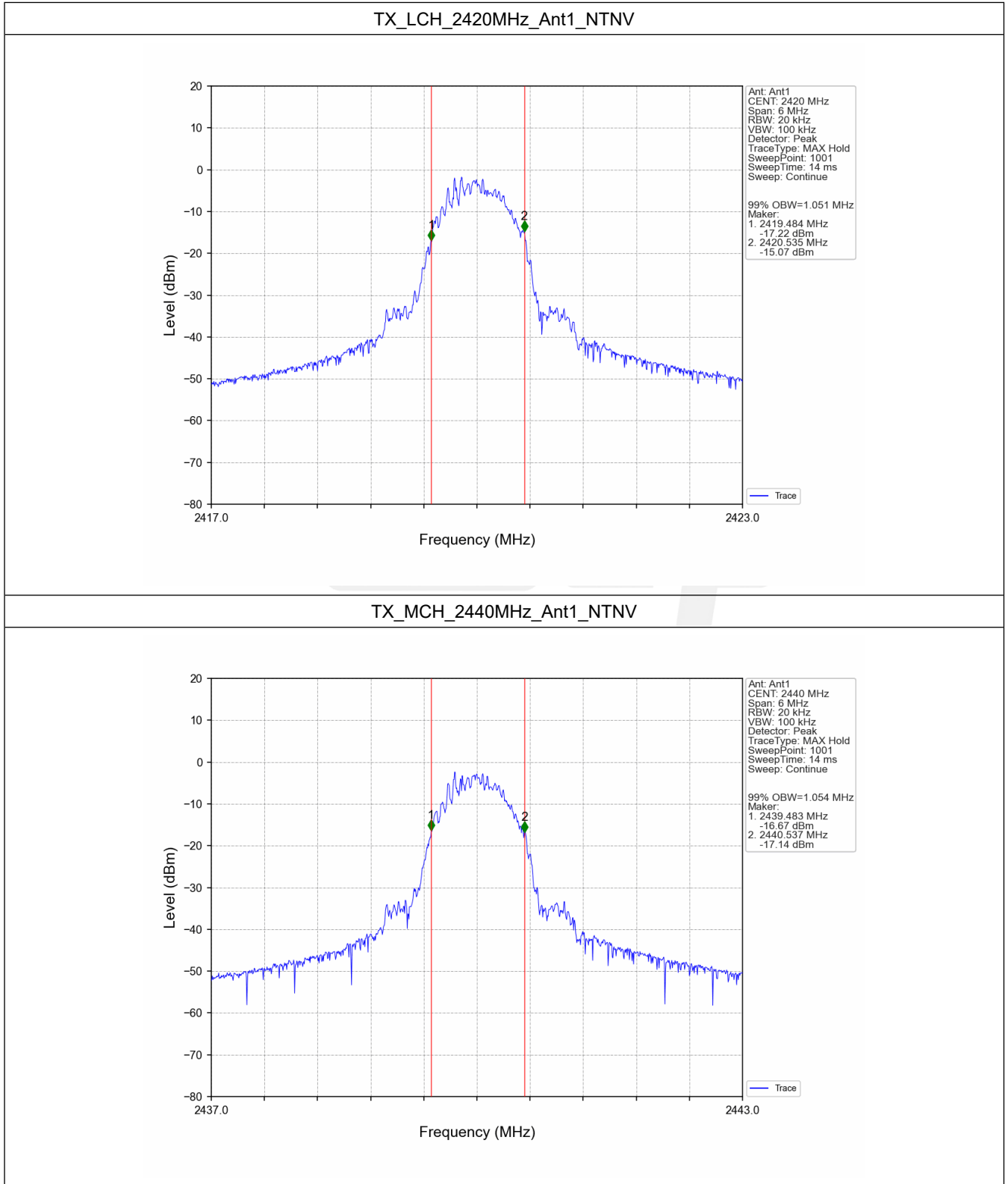
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
TX	SISO	2420	1	1.051	/	Pass
		2440	1	1.054	/	Pass
		2460	1	1.112	/	Pass

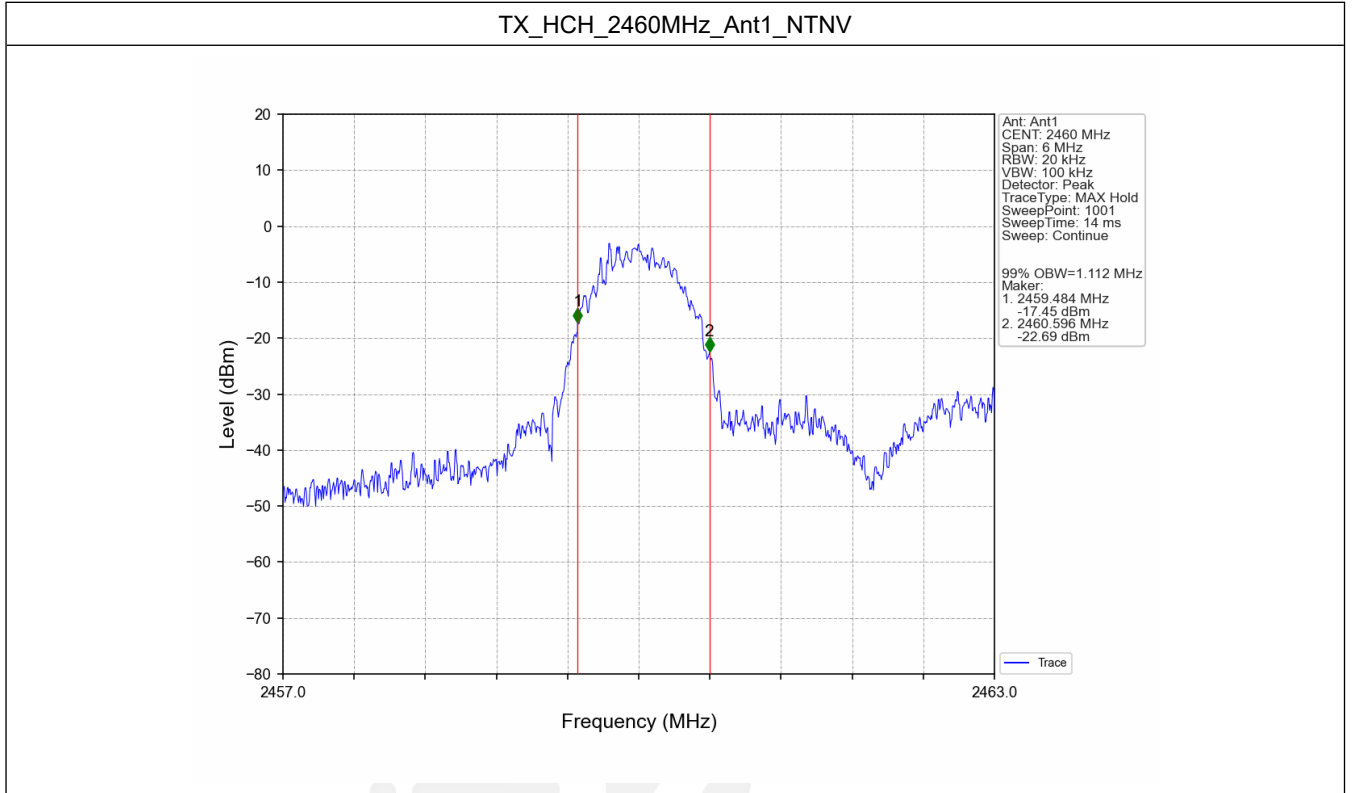
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
TX	SISO	2420	1	1.187	/	Pass
		2440	1	1.184	/	Pass
		2460	1	1.149	/	Pass

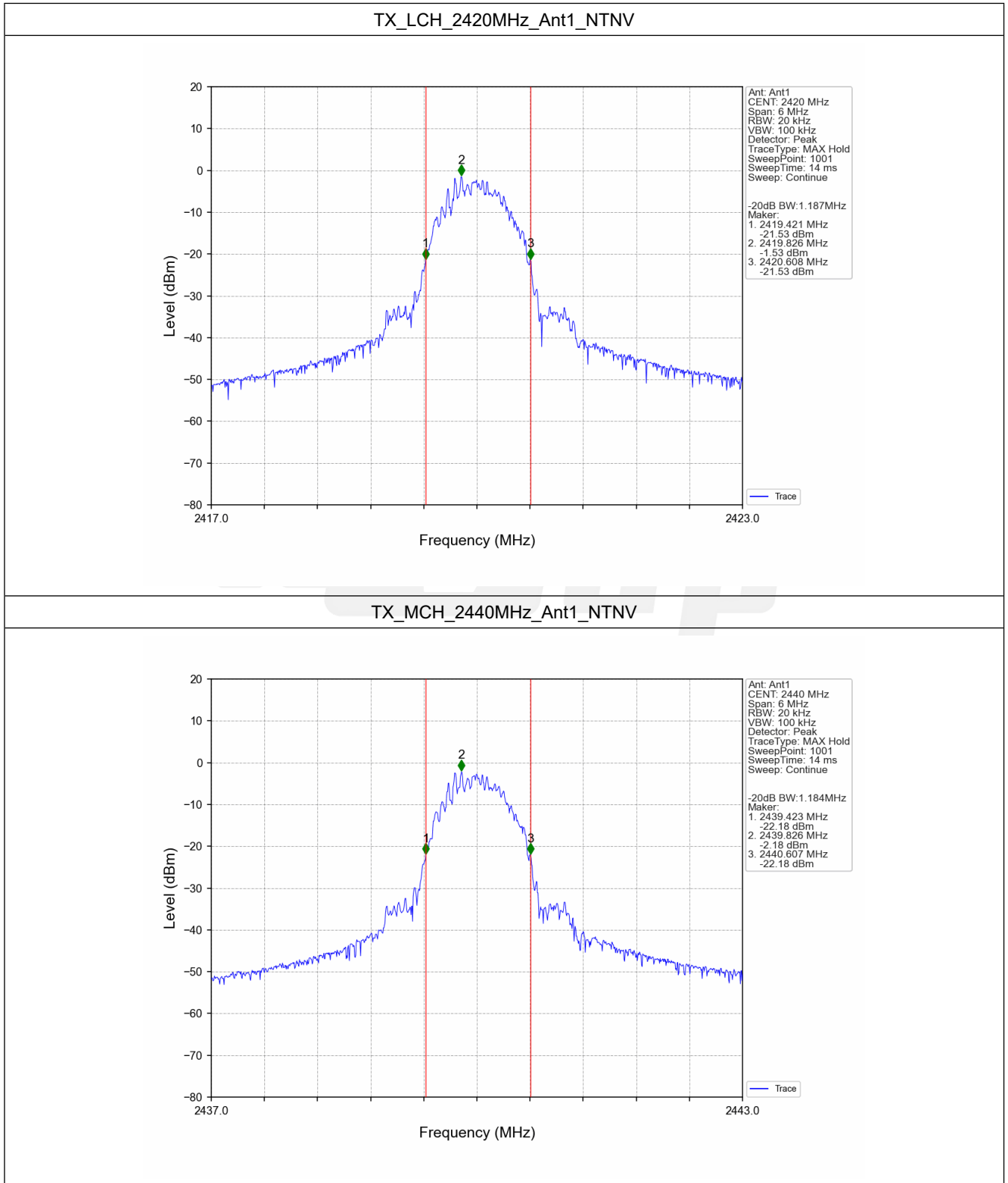
1.2 Test Graph

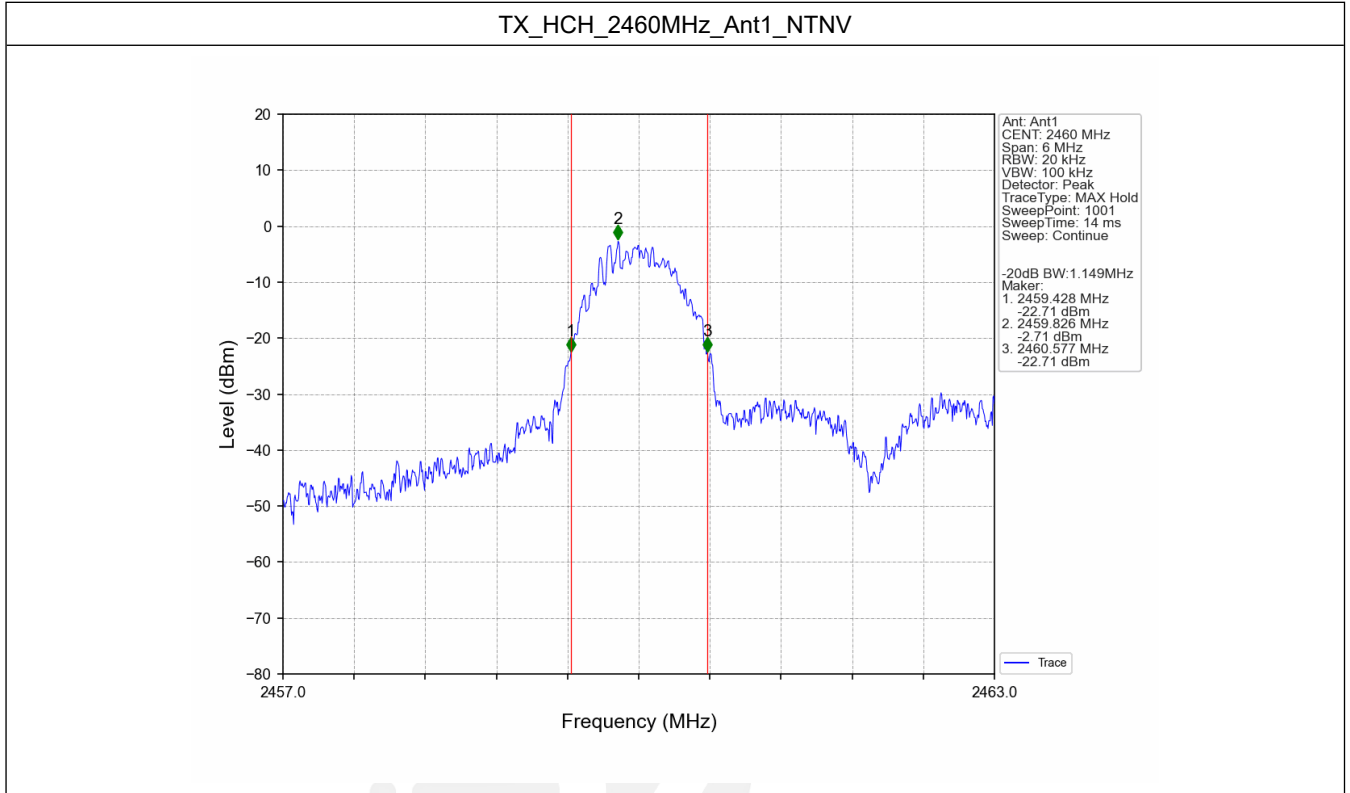
1.2.1 OBW





1.2.2 20dB BW





End of the report