FCC Test Report

Applicant	:	**Gopod Group Limited.**
Address	:	**6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China**
Product Name	:	**Magnetic Qi2 Wireless Charging Car Mount**
Report Date	:	**Jul. 30, 2024**

Shenzhen Anbotek Compliance Laboratory Limited

Contents

TEST REPORT

Applicant	:	Gopod Group Limited.
Manufacturer	:	Gopod Group Holding Limited
Product Name	:	Magnetic Qi2 Wireless Charging Car Mount
Model No.	:	D481F3
Trade Mark	:	Gmobi
Rating(s)	:	Input: 5V⎓ 2A/9V⎓ 2.22A Output: 5W/7.5W/10W/15W
Test Standard(s)	:	**47 CFR Part 15.209** **ANSI C63.10-2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Jun. 06, 2024

Date of Test: Jun. 07, 2024 to Jun. 25, 2024

Prepared By: Ella Liang

(Ella Liang)

Approved & Authorized Signer: Edward pan

(Edward Pan)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 30, 2024

1. General Information

1.1. Client Information

Applicant	:	Gopod Group Limited.
Address	:	6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China
Manufacturer	:	Gopod Group Holding Limited
Address	:	301, 4/F, 5/F, 6/F, Building#8 & 6/F, 7/F, Tower#C, Lian Jian Industrial Park II, Shang Henglang Community, DaLang St, LongHua Dist, Shenzhen, China
Factory	:	Gopod Group Holding Limited
Address	:	301, 4/F, 5/F, 6/F, Building#8 & 6/F, 7/F, Tower#C, Lian Jian Industrial Park II, Shang Henglang Community, DaLang St, LongHua Dist, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Magnetic Qi2 Wireless Charging Car Mount
Model No.	:	D481F3
Trade Mark	:	Gmobi
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	110.1kHz-360kHz
Modulation Type	:	FSK
Antenna Type	:	Inductive loop coil Antenna
Remark: (1) All of the RF specification are provided by customer. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF

1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	WTP Mode (5W 1% Load)
TM2	WTP Mode (5W 50% Load)
TM3	WTP Mode (5W 99% Load)
TM4	WTP Mode (7.5W 1% Load)
TM5	WTP Mode (7.5W 50% Load)
TM6	WTP Mode (7.5W 99% Load)
TM7	WTP Mode (10W 1% Load)
TM8	WTP Mode (10W 50% Load)
TM9	WTP Mode (10W 99% Load)
TM10	WTP Mode (15W 1% Load)
TM11	WTP Mode (15W 50% Load)
TM12	WTP Mode (15W 99% Load)
TM13	Standby Mode

1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.6. Test Summary

Test Items	Test Modes	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1,2,3,4,5,6,7,8,9,10,11,12,13	P
Emissions in frequency bands (below 30MHz)	Mode1,2,3,4,5,6,7,8,9,10,11,12,13	P
Emissions in frequency bands (30MHz - 1GHz)	Mode1,2,3,4,5,6,7,8,9,10,11,12,13	P
Note: P: Pass N: N/A, not applicable		

1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:434132
Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A
Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location
Shenzhen Anbotek Compliance Laboratory Limited.
1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.8. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

1.9. Test Equipment List

Conducted Emission at AC power line						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Emissions in frequency bands (below 30MHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519B	00053	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Emissions in frequency bands (30MHz - 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	2022-10-16	2025-10-15
2	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
3	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
4	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

2. 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.

2.1. Conclusion

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.

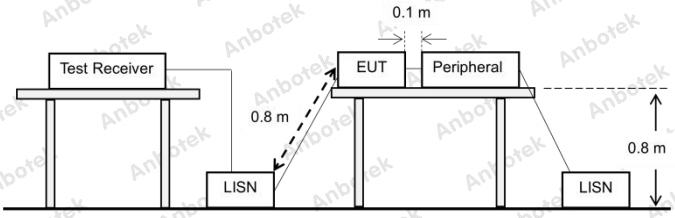
3. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	ANSI C63.10-2020 section 6.2
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

3.1. EUT Operation

Operating Environment:	
Test mode:	TM1: WTP Mode (5W 1% Load) TM2: WTP Mode (5W 50% Load) TM3: WTP Mode (5W 99% Load) TM4: WTP Mode (7.5W 1% Load) TM5: WTP Mode (7.5W 50% Load) TM6: WTP Mode (7.5W 99% Load) TM7: WTP Mode (10W 1% Load) TM8: WTP Mode (10W 50% Load) TM9: WTP Mode (10W 99% Load) TM10: WTP Mode (15W 1% Load) TM11: WTP Mode (15W 50% Load) TM12: WTP Mode (15W 99% Load) TM13: Standby Mode

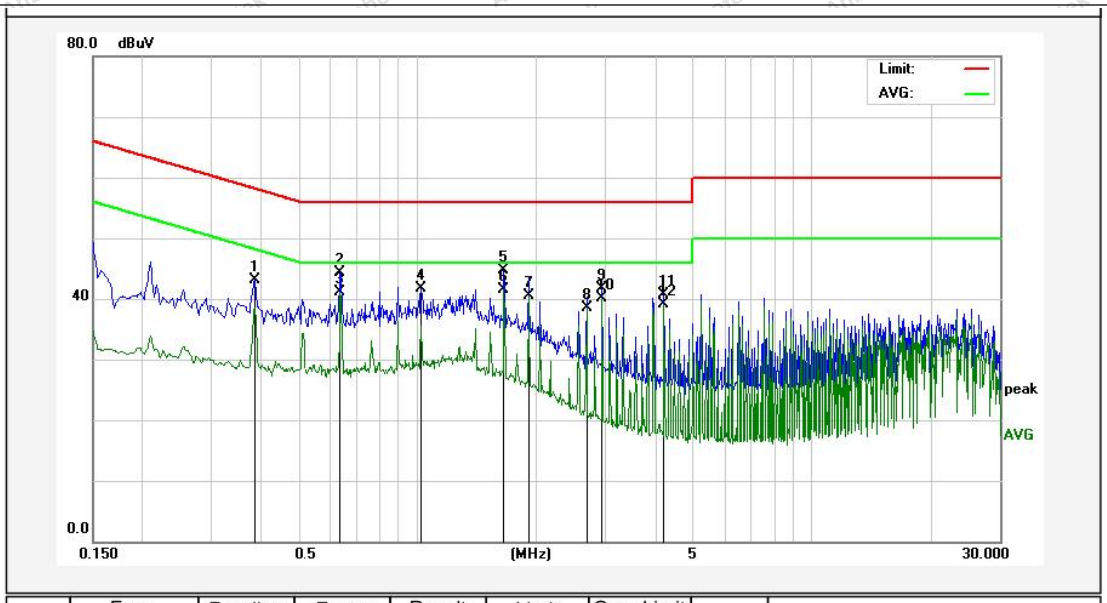
3.2. Test Setup



3.3. Test Data

Temperature:	23.5 ° C	Humidity:	57 %	Atmospheric Pressure:	101 kPa

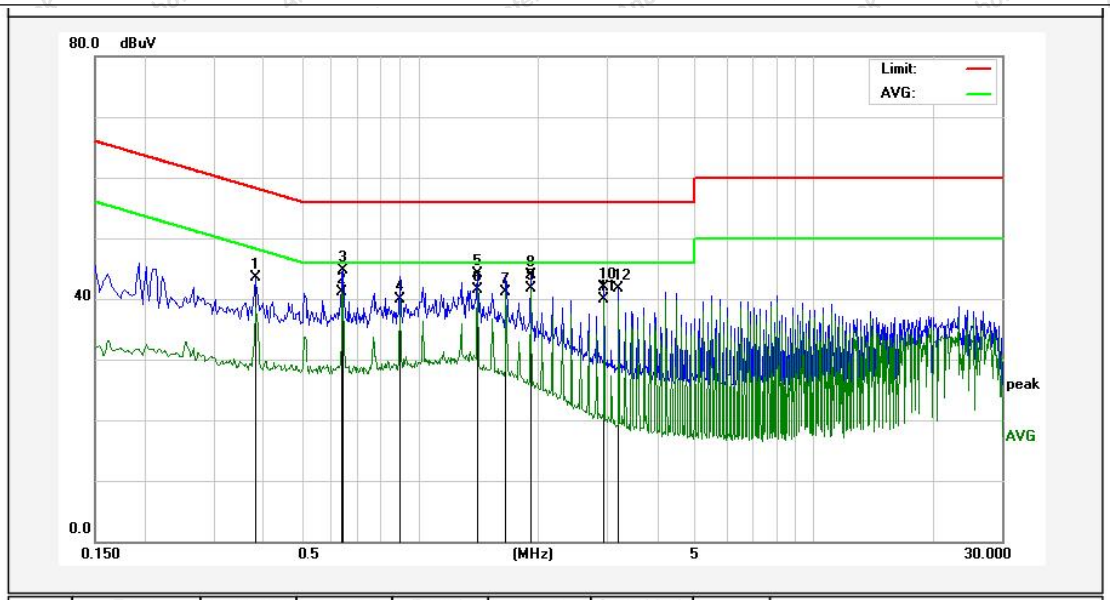
TM10 / Line: Line



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3860	25.29	17.81	43.10	58.15	-15.05	QP	
2	0.6380	26.49	17.86	44.35	56.00	-11.65	QP	
3	0.6380	23.19	17.86	41.05	46.00	-4.95	AVG	
4	1.0220	23.90	17.85	41.75	56.00	-14.25	QP	
5	1.6620	26.79	17.84	44.63	56.00	-11.37	QP	
6	1.6620	23.74	17.84	41.58	46.00	-4.42	AVG	
7	1.9180	22.76	17.83	40.59	46.00	-5.41	AVG	
8	2.6860	20.73	17.84	38.57	46.00	-7.43	AVG	
9	2.9420	23.83	17.84	41.67	56.00	-14.33	QP	
10	2.9420	22.33	17.84	40.17	46.00	-5.83	AVG	
11	4.2180	22.89	17.84	40.73	56.00	-15.27	QP	
12	4.2180	21.31	17.84	39.15	46.00	-6.85	AVG	

Temperature:	23.5 ° C	Humidity:	57 %	Atmospheric Pressure:	101 kPa

TM10 / Line: Neutral



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3820	25.63	17.81	43.44	58.23	-14.79	QP	
2	0.6380	23.32	17.86	41.18	46.00	-4.82	AVG	
3	0.6419	26.82	17.86	44.68	56.00	-11.32	QP	
4	0.8940	22.08	17.86	39.94	46.00	-6.06	AVG	
5	1.4060	26.34	17.84	44.18	56.00	-11.82	QP	
6	1.4060	23.75	17.84	41.59	46.00	-4.41	AVG	
7	1.6620	23.27	17.84	41.11	46.00	-4.89	AVG	
8	1.9180	26.13	17.83	43.96	56.00	-12.04	QP	
9	1.9180	23.95	17.83	41.78	46.00	-4.22	AVG	
10	2.9420	24.08	17.84	41.92	56.00	-14.08	QP	
11	2.9420	22.08	17.84	39.92	46.00	-6.08	AVG	
12	3.1980	23.94	17.84	41.78	56.00	-14.22	QP	

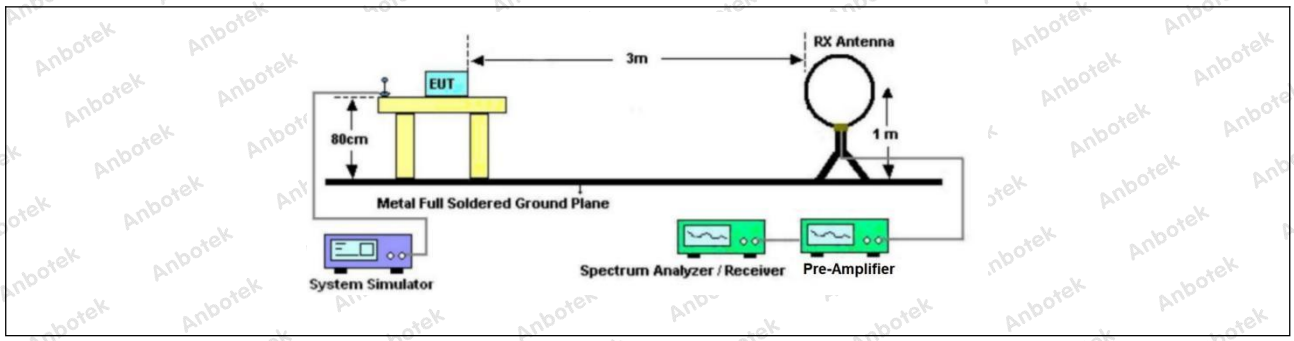
4. Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209
Test Limit:	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><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></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 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 6.4
Procedure:	ANSI C63.10-2020 section 6.4

4.1. EUT Operation

Operating Environment:	
Test mode:	TM1: WTP Mode (5W 1% Load) TM2: WTP Mode (5W 50% Load) TM3: WTP Mode (5W 99% Load) TM4: WTP Mode (7.5W 1% Load) TM5: WTP Mode (7.5W 50% Load) TM6: WTP Mode (7.5W 99% Load) TM7: WTP Mode (10W 1% Load) TM8: WTP Mode (10W 50% Load) TM9: WTP Mode (10W 99% Load) TM10: WTP Mode (15W 1% Load) TM11: WTP Mode (15W 50% Load) TM12: WTP Mode (15W 99% Load) TM13: Standby Mode

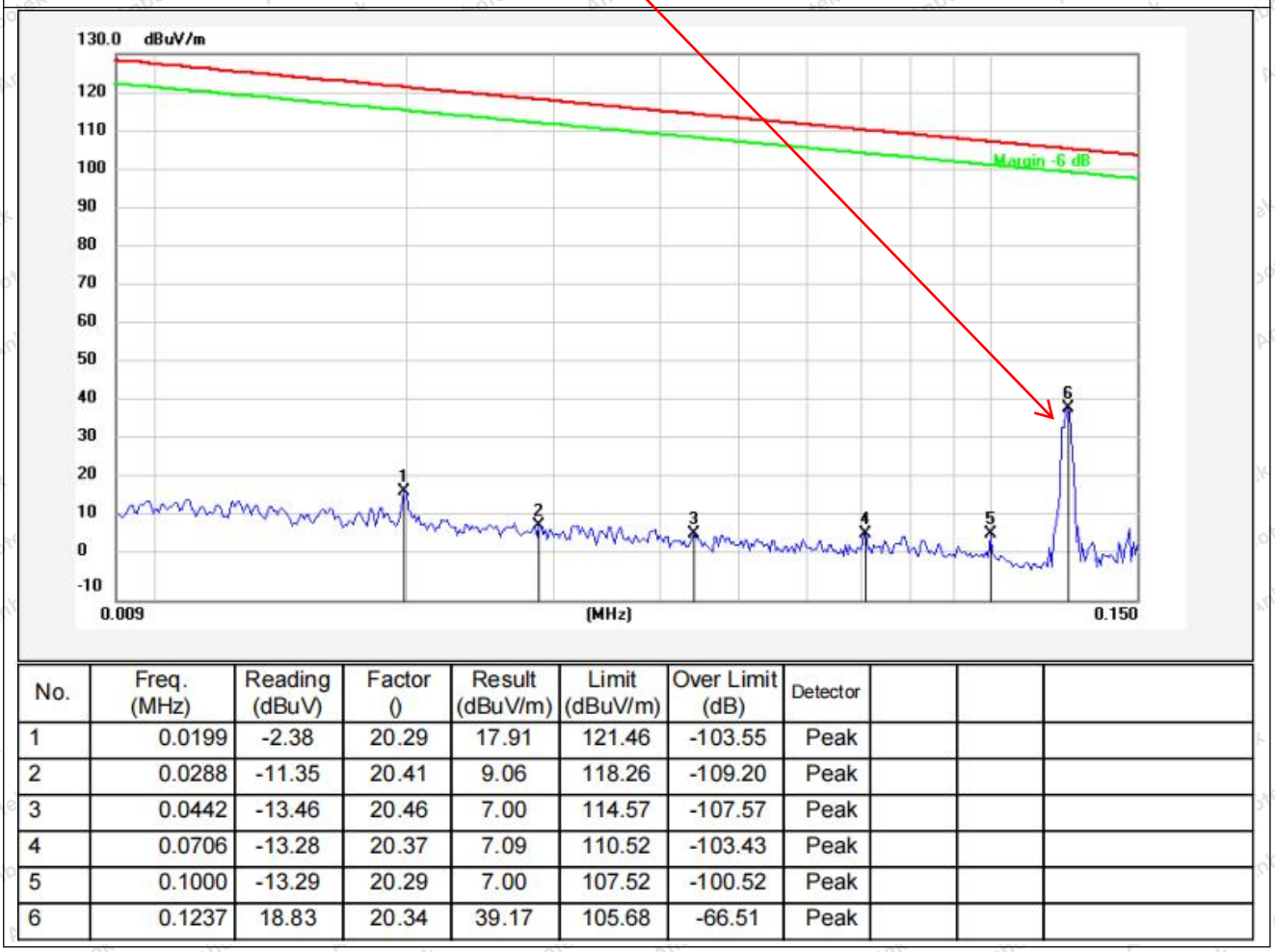
4.2. Test Setup



4.3. Test Data

Temperature:	23.5 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

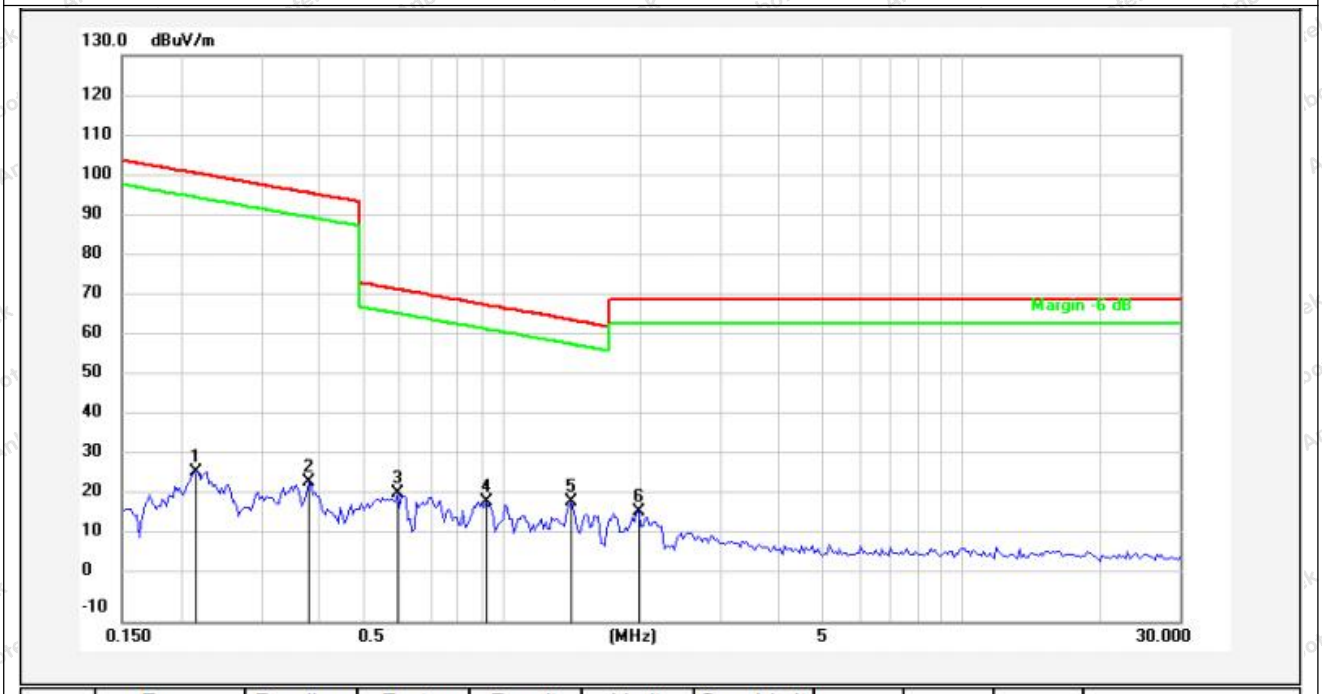
TM10 / Polarization: X



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	0.0199	-2.38	20.29	17.91	121.46	-103.55	Peak			
2	0.0288	-11.35	20.41	9.06	118.26	-109.20	Peak			
3	0.0442	-13.46	20.46	7.00	114.57	-107.57	Peak			
4	0.0706	-13.28	20.37	7.09	110.52	-103.43	Peak			
5	0.1000	-13.29	20.29	7.00	107.52	-100.52	Peak			
6	0.1237	18.83	20.34	39.17	105.68	-66.51	Peak			

Temperature:	23.5 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

TM1 / Polarization: X



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	0.2151	6.77	20.30	27.07	100.91	-73.84	Peak			
2	0.3810	4.18	20.28	24.46	95.97	-71.51	Peak			
3	0.5947	1.43	20.27	21.70	72.12	-50.42	Peak			
4	0.9282	-0.63	20.26	19.63	68.27	-48.64	Peak			
5	1.4173	-0.73	20.27	19.54	64.60	-45.06	Peak			
6	1.9900	-3.11	20.28	17.17	69.50	-52.33	Peak			

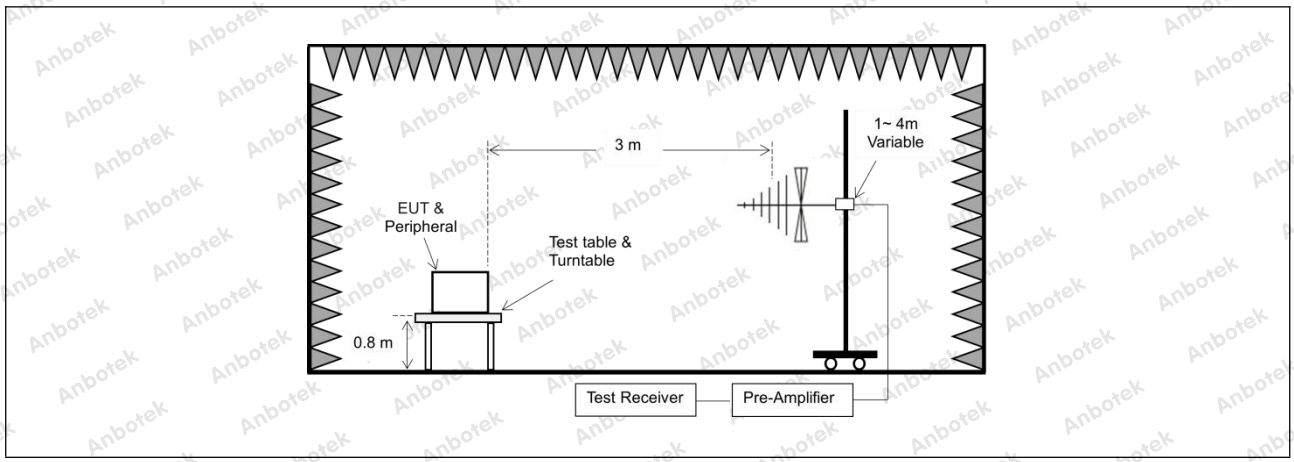
5. Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209
Test Limit:	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><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></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 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

5.1. EUT Operation

Operating Environment:	
Test mode:	TM1: WTP Mode (5W 1% Load) TM2: WTP Mode (5W 50% Load) TM3: WTP Mode (5W 99% Load) TM4: WTP Mode (7.5W 1% Load) TM5: WTP Mode (7.5W 50% Load) TM6: WTP Mode (7.5W 99% Load) TM7: WTP Mode (10W 1% Load) TM8: WTP Mode (10W 50% Load) TM9: WTP Mode (10W 99% Load) TM10: WTP Mode (15W 1% Load) TM11: WTP Mode (15W 50% Load) TM12: WTP Mode (15W 99% Load) TM13: Standby Mode

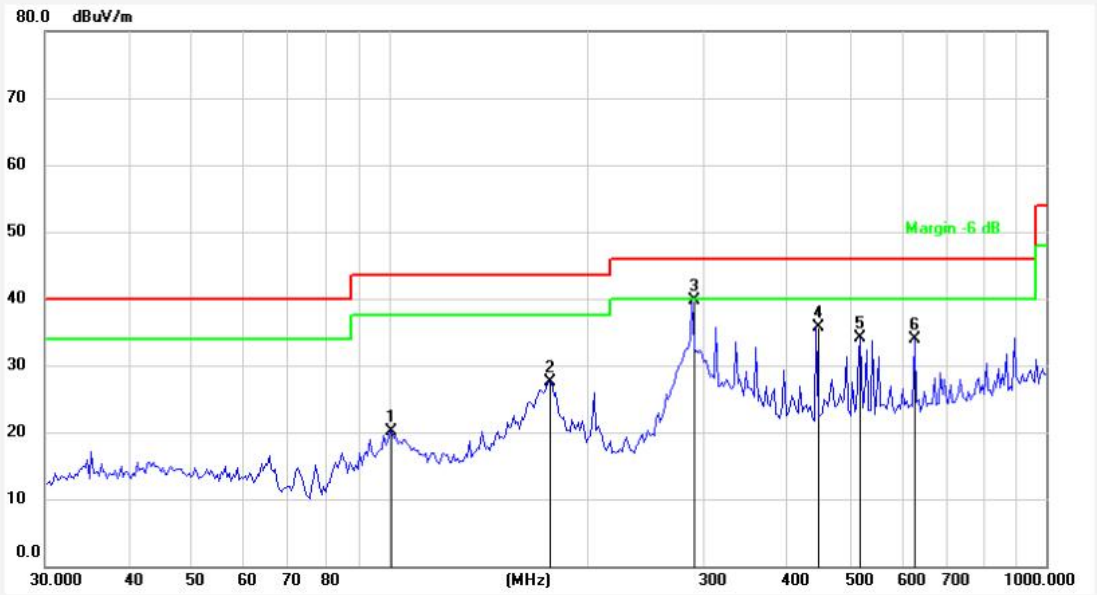
5.2. Test Setup



5.3. Test Data

Temperature:	23.5 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

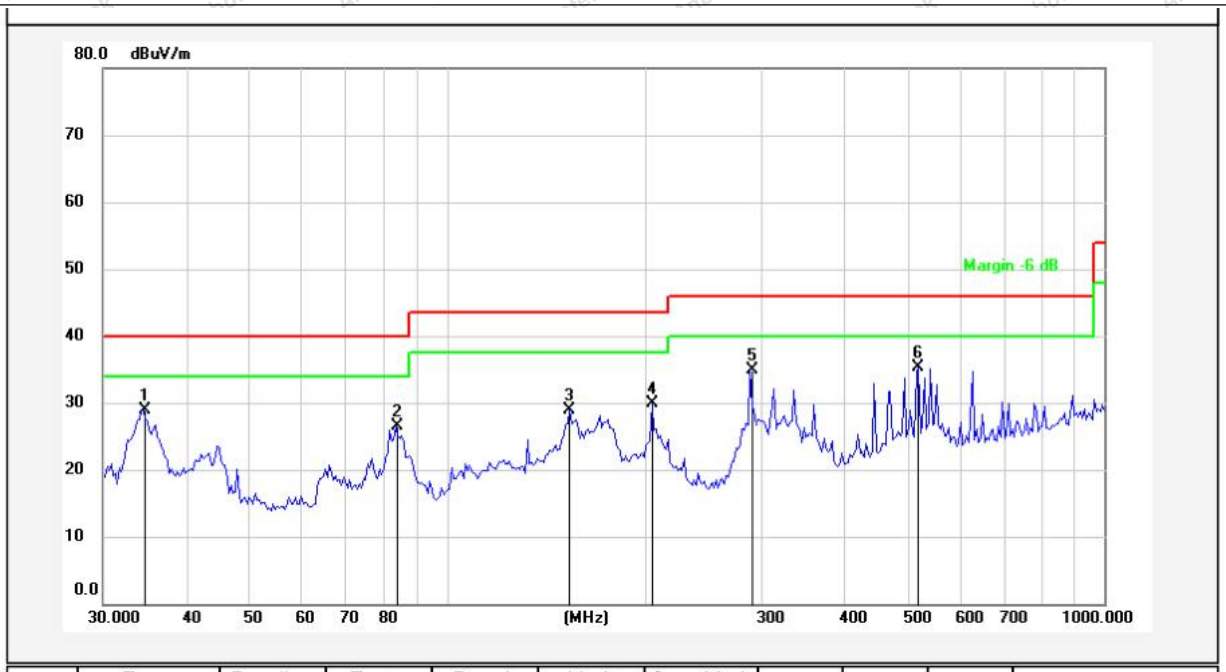
TM1 / Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	100.2286	37.43	-17.28	20.15	43.50	-23.35	QP			
2	175.6516	47.48	-19.90	27.58	43.50	-15.92	QP			
3	289.0021	55.25	-15.53	39.72	46.00	-6.28	QP			
4	446.4141	47.93	-12.18	35.75	46.00	-10.25	QP			
5	520.8882	44.80	-10.79	34.01	46.00	-11.99	QP			
6	629.4772	42.63	-8.81	33.82	46.00	-12.18	QP			

Temperature:	23.5 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

TM1 / Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			
1	34.5173	47.33	-18.40	28.93	40.00	-11.07	QP			
2	83.5222	47.36	-20.78	26.58	40.00	-13.42	QP			
3	153.7385	50.04	-21.20	28.84	43.50	-14.66	QP			
4	204.9551	48.11	-18.27	29.84	43.50	-13.66	QP			
5	289.0021	50.47	-15.53	34.94	46.00	-11.06	QP			
6	520.8882	46.03	-10.79	35.24	46.00	-10.76	QP			

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

---------- End of Report ----------