

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RADIO TEST - REPORT

FCC Compliance Test Report for

Product name: Magnetic Wireless Power Bank

Model name: PB570

FCC ID: 2AQI5-PB570

Test Report Number: EFGX26010129-IE-08-E01

Test Report No.: EFGX26010129-IE-08-E01

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

Room 20 of 2/F., 1/F., Building 2, Spring Block & Room 102, Building 8, Autumn Block, Meishenghuigu Innovation Park, No.83, Dabao Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86-755-82911867, Fax : +86-755-82910749

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator:

2026-01-13

Bruce Zheng / Project Engineer



Date	Eurofins-Lab.	Name / Title	Signature
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Technical responsibility for area of testing:

2026-01-13

Albert Xu / Lab Manager



Date	Eurofins	Name / Title	Signature
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1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

Room 20 of 2/F., 1/F., Building 2, Spring Block & Room 102, Building 8, Autumn Block, Meishenghuigu Innovation Park, No.83, Dabao Road, Bao'an District, Shenzhen, Guangdong, China

Telephone : +86-755-82911867

Fax : +86-755-82910749

The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088

1.3 Details of applicant

Name	: Ugreen Group Limited
Address	: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China
Telephone	: 075528198930
Fax	: 075528198930

1.4 Details of manufacturer

Name	: Ugreen Group Limited
Address	: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China
Telephone	: 075528198930
Fax	: 075528198930

1.5 Application details

Date of receipt of application : 2026-01-04
 Date of receipt of test item : 2026-01-04
 Date of test : 2026-01-04 to 2026-01-13
 Date of issue : 2026-01-13

1.6 Test item

Product type : Magnetic Wireless Power Bank
 Model name : PB570
 P/N code Differences : All the P/N code and test models are the same circuit and RF module, except for the sales platform and appearance colors, 65839 is blue, 75982 is gray, and 75983 is white.
 Sample ID : 260108-06-008
 Brand : **UGREEN**
 Serial number : N/A
 Ratings : USB-C (IN 1) Input:5V $\overline{}$ 3A/9V $\overline{}$ 3A/12V $\overline{}$ 2.5A/15V $\overline{}$ 2A 30W Max
 USB-C Cable (IN 2) Input:5V $\overline{}$ 3A/9V $\overline{}$ 3A/12V $\overline{}$ 2.5A/15V $\overline{}$ 2A 30W Max
 USB-C (OUT 1) Output:10V $\overline{}$ 2.25A/5V $\overline{}$ 3A/9V $\overline{}$ 3A/12V $\overline{}$ 2.5A/15V $\overline{}$ 2A 30W Max
 USB-C Cable (OUT 2) Output:10V $\overline{}$ 2.25A/5V $\overline{}$ 3A/9V $\overline{}$ 3A/12V $\overline{}$ 2.5A/15V $\overline{}$ 2A 30W Max
 Wireless Charging Output Power:15W Max
 Total Output: 5V $\overline{}$ 2A+5W
 Cell Capacity: 5000mAh(Two Cells in Series)
 Polymer Lithium-ion Battery Cell Energy: 39.2Wh (7.84V 5000mAh)
 Rated Capacity: 6250 mAh (TYP 5V 3A)
 Test voltage : AC120V/60Hz
 Additional information : N/A

RadioTechnical data

Operating Frequency : 112 kHz -148.5 kHz; 360kHz
 Modulation : ASK

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant.
 Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information and technical documents.

Remark:

- P/N code in the below table, for marketing purpose, will be marked on the marking plate.

65839	65839P	65839X	65839A	65839B	65839C	65839U	65839JP	65839ZD
75982	75982P	75982X	75982A	75982B	75982C	75982U	75982JP	75982ZD
75983	75983P	75983X	75983A	75983B	75983C	75983U	75983JP	75983ZD

1.7 Test standards

Test Standards	
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

Test Method

- 1: ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
- 2: ANSI C63.10-2020, American National Standard for Testing Unlicensed Wireless Devices.

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



2.2 Test environment

Ac line conducted

Environment Parameter	Temperature	Relative Humidity
101.2 kPa	24.2°C	57.3%

Radiated

Environment Parameter	Temperature	Relative Humidity
101.2 kPa	24.3°C	52.7%

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty in conducted measurements	1.96dB
Uncertainty for Radiated Emission 9KHz-30MHz	4.56dB
Uncertainty for Radiated Emission 30MHz-3000MHz	Horizontal: 4.46dB; Vertical: 4.54dB;

2.4 Test mode

No.	Operating Mode
Mode 1	Charging+Wireless Output (Phone:5W)
Mode 2	Charging+Wireless Output (Phone:7.5W)
Mode 3	Wireless Output (Phone:5W)
Mode 4	Wireless Output (Phone7.5W)
Mode 5	Wireless Output (Phone15W)
Mode 6	Standby

Note:

Phone 5W: 112-148.5kHz

Phone 7.5W: 112-148.5kHz

Phone 15W: 360kHz

2.5 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	CAL. DUE DATE
23-2-10-63	Temperature & Humidity Meter	COS-03	2026-03-25
23-2-10-65	Barometer	Baro	2026-03-25
23-2-13-12	Signal Analyzer	N9010B-544	2026-03-25
23-2-10-43	Switch and Control Unit	ERIT-E-JS0806-2	2026-03-25
23-2-10-44	DC power supply	E3642A	2026-03-25
23-2-10-45	Temperature test chamber	SG-80-CC-2	2026-03-25
23-2-10-50	Temperature & Humidity Meter	COS-03	2026-03-25
23-2-10-66	Barometer	Baro	2026-03-25
23-2-13-01	EMI Test Receiver	ESR7	2026-03-25
23-2-13-02	Signal Analyzer	N9020B-544	2026-03-25
23-2-12-01	Active Loop Antenna	FMZB 1519B	2026-05-29
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2026-05-29

2.6 Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Wireless charging load	YBZ	YBZ1.1	---
Wireless charging load	YBZ	YBZ3.0	---
Wireless charging load	YBZ	YBZ1.2	---

2.8 Test results

☒ 1st test

☐ test after modification

☐ production test

Technical Requirements				
FCC Part 15 Subpart C				
Test Condition		Test Result	Verdict	Test Site
§15.207	Conducted emission AC power port	See Page 11	Pass	Site 1
§15.209	Radiated Emission	See page 17	Pass	Site 1
§15.215 (c)	20dB Occupied bandwidth	See page 26	Pass	Site 1
§15.203	Antenna requirement	See note 1	Pass	--

Note 1: No antenna connector is used.

3 Technical Requirement

3.1 Conducted emission AC power port

Test Method:

The test method was referred to the subclause 6.2 of ANSI C63.10-2020.

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both Neutral and Live lines.

Limit:

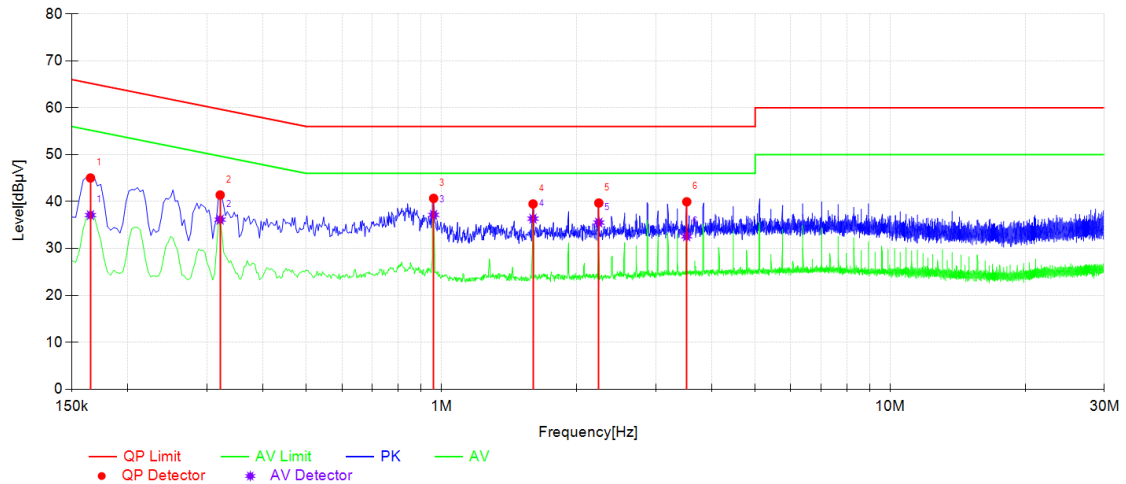
FCC §15.207 (a)

Frequency	QP Limit	AV Limit
MHz	dB μ V	dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

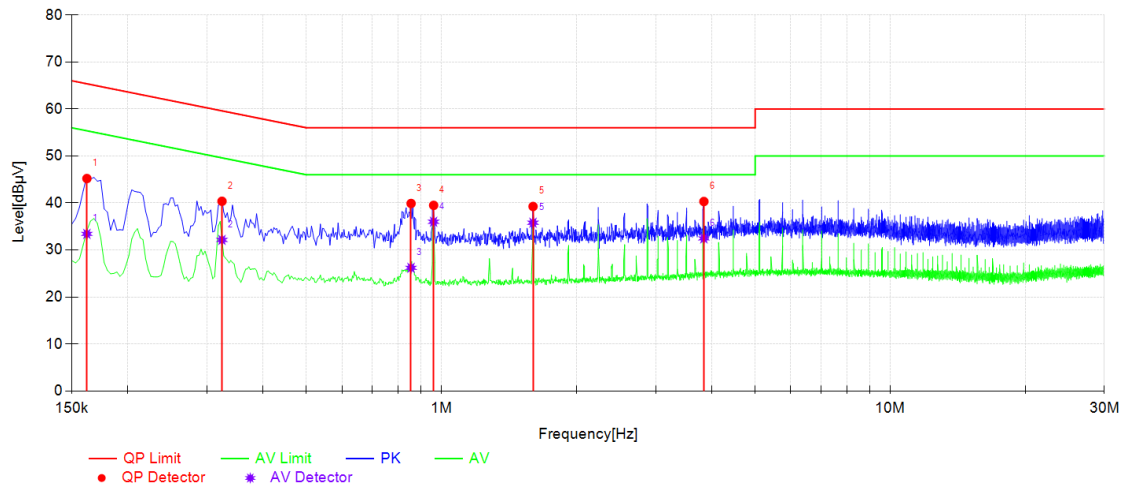
Decreasing linear.

Test Result:

All of the listed pre-test mode were tested, only the data of the worst mode(Mode1) is recorded in the report



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.165	10.28	45.03	65.21	20.18	37.12	55.21	18.09	L1	PASS
2	0.321	10.31	41.41	59.68	18.27	36.15	49.68	13.53	L1	PASS
3	0.96	10.35	40.69	56.00	15.31	37.16	46.00	8.84	L1	PASS
4	1.599	10.31	39.50	56.00	16.50	36.35	46.00	9.65	L1	PASS
5	2.241	10.28	39.70	56.00	16.30	35.52	46.00	10.48	L1	PASS
6	3.519	10.30	39.96	56.00	16.04	32.60	46.00	13.40	L1	PASS



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.162	10.35	45.21	65.36	20.15	33.43	55.36	21.93	N	PASS
2	0.324	10.31	40.38	59.60	19.22	32.15	49.60	17.45	N	PASS
3	0.855	10.26	39.90	56.00	16.10	26.21	46.00	19.79	N	PASS
4	0.96	10.26	39.51	56.00	16.49	36.01	46.00	9.99	N	PASS
5	1.599	10.33	39.26	56.00	16.74	35.81	46.00	10.19	N	PASS
6	3.843	10.40	40.32	56.00	15.68	32.47	46.00	13.53	N	PASS

3.2 Radiated emissions

Test Method:

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2020 Section 6.4

Radiated Spurious Emissions 30-1000MHz: ANSI C63.10-2020 Section 6.3 and 6.5

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Note:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- b. All modes of operation were investigated and the worst-case emissions are reported.

Limit:

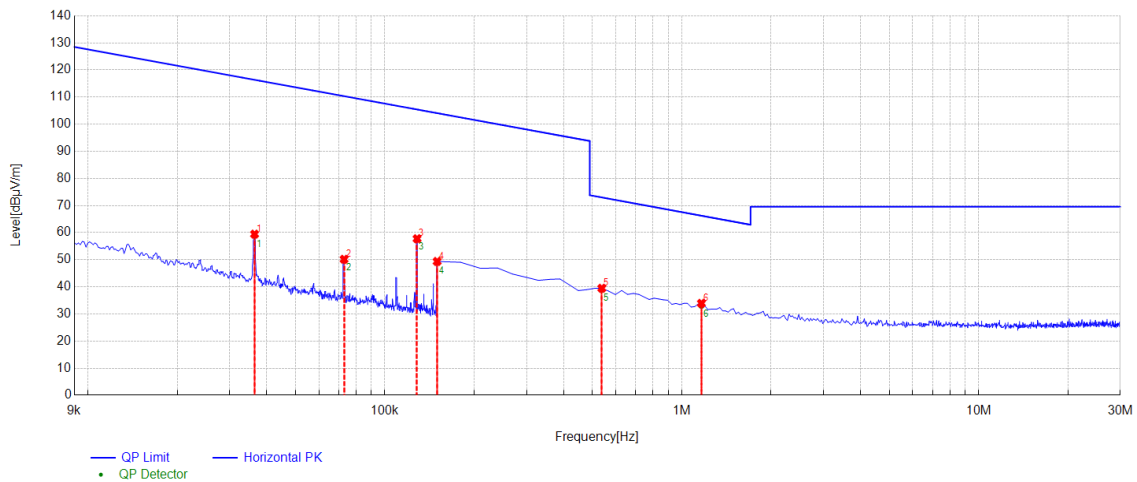
FCC §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Test Result:

After pre-scan, the worst emission data was recorded.

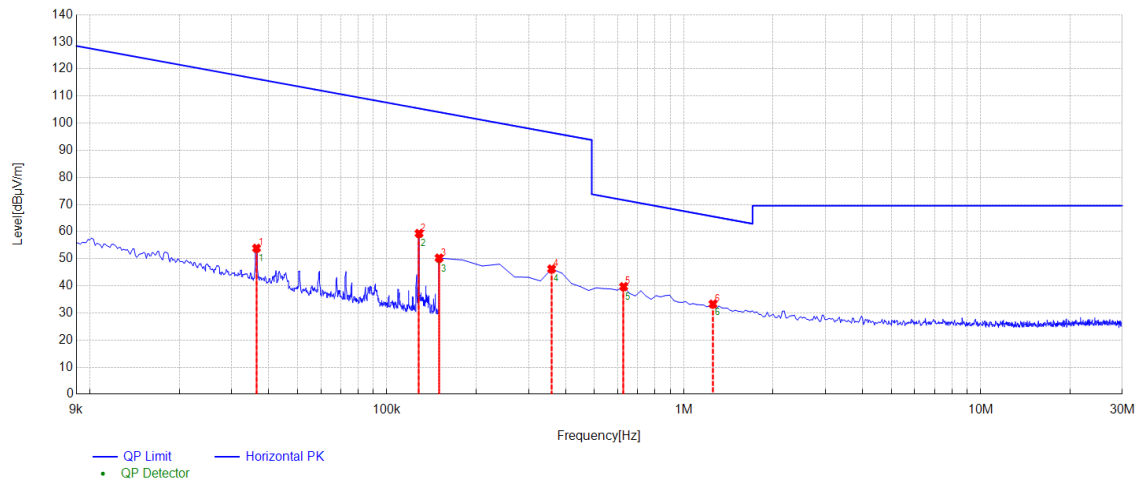
Mode 2



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	59.44	-12.91	116.38	56.94	100	249	X	PASS
2	0.0729	50.16	-13.75	110.34	60.18	100	64	X	PASS
3*	0.1284	57.76	-13.01	105.42	47.66	100	236	X	PASS
4*	0.1500	49.36	-12.72	104.08	54.72	100	241	X	PASS
5*	0.5380	39.47	-10.45	72.98	33.51	100	287	X	PASS
6	1.1649	33.92	-10.53	66.23	32.31	100	244	X	PASS

Remarks:

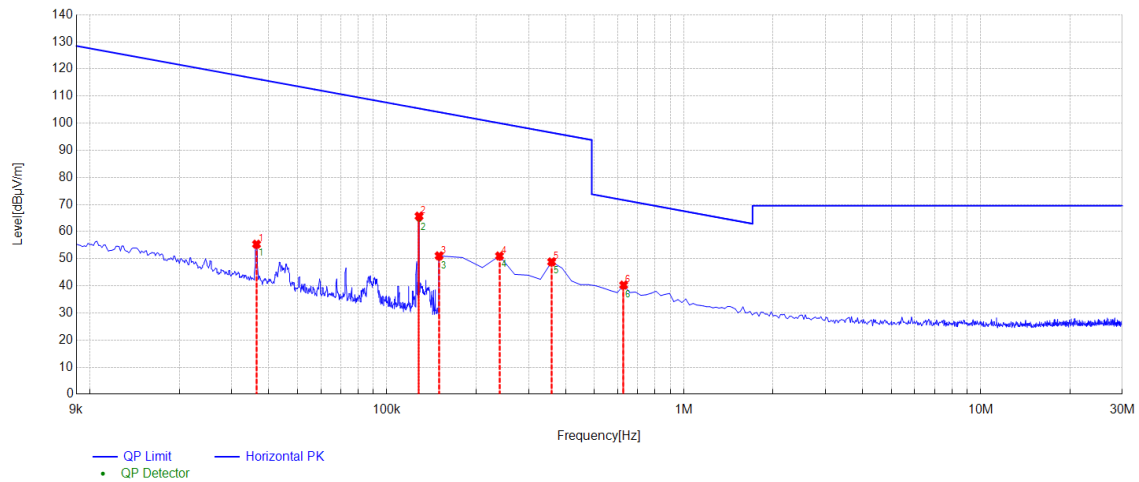
1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The other emission levels were very low against the limit.
5. "*" : Fundamental Frequency.



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	53.88	-12.91	116.38	62.50	100	162	Y	PASS
2	0.1284	59.34	-13.01	105.42	46.08	100	309	Y	PASS
3*	0.1500	50.26	-12.72	104.08	53.82	100	51	Y	PASS
4*	0.3590	46.24	-10.99	96.50	50.26	100	327	Y	PASS
5*	0.6276	39.70	-10.36	71.64	31.94	100	297	Y	PASS
6	1.2544	33.28	-10.52	65.58	32.30	100	127	Y	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).
4. The other emission levels were very low against the limit.
5. "*" : Fundamental Frequency.

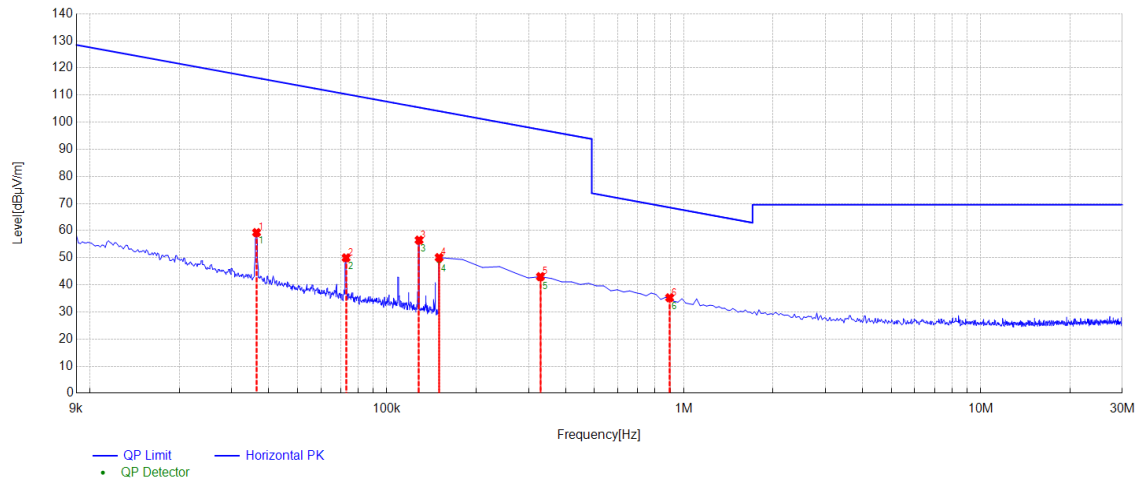


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	55.35	-12.91	116.38	61.03	100	292	Z	PASS
2	0.1284	65.69	-13.01	105.42	39.73	100	220	Z	PASS
3*	0.1500	51.06	-12.72	104.08	53.02	100	343	Z	PASS
4*	0.2396	51.02	-11.81	100.01	48.99	100	222	Z	PASS
5*	0.3590	48.84	-10.99	96.50	47.66	100	40	Z	PASS
6	0.6276	40.28	-10.36	71.64	31.36	100	72	Z	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The other emission levels were very low against the limit.
5. "*" : Fundamental Frequency.

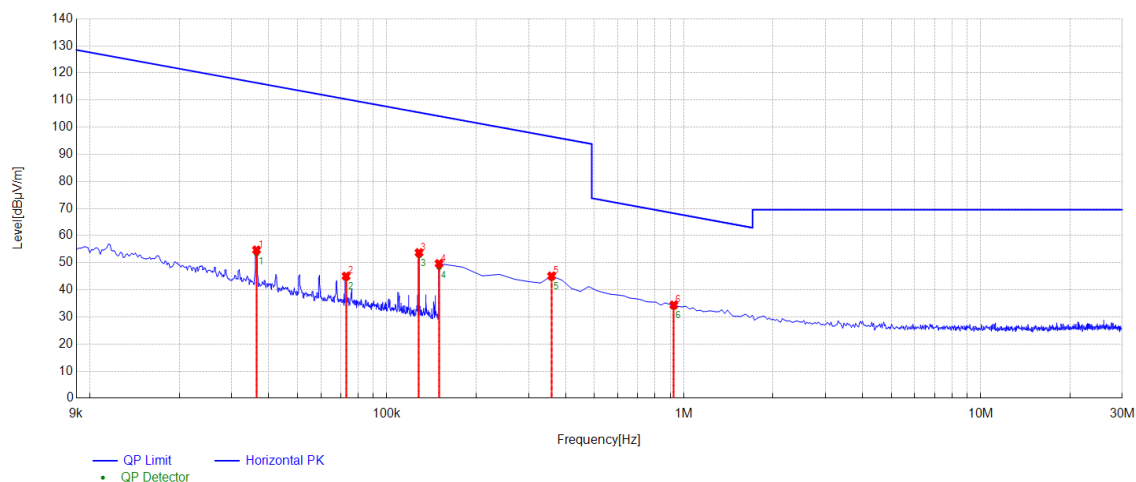
Mode 4



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	59.28	-12.91	116.38	57.10	100	360	X	PASS
2	0.0729	49.96	-13.75	110.34	60.38	100	265	X	PASS
3*	0.1284	56.51	-13.01	105.42	48.91	100	118	X	PASS
4*	0.1500	50.07	-12.72	104.08	54.01	100	91	X	PASS
5*	0.3291	43.02	-11.10	97.26	54.24	100	65	X	PASS
6	0.8962	35.23	-10.40	68.52	33.29	100	78	X	PASS
7*	0.0364	59.28	-12.91	116.38	57.10	100	360	X	PASS

Remarks:

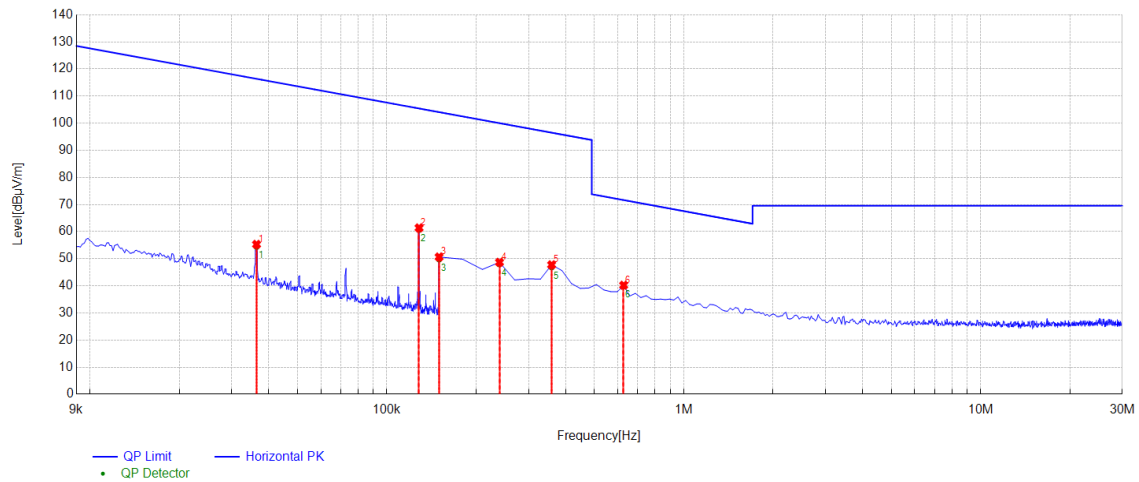
1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).
4. The other emission levels were very low against the limit.
5. "*" : Fundamental Frequency.



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	54.70	-12.91	116.38	61.68	100	103	Y	PASS
2	0.0729	45.05	-13.75	110.34	65.29	100	192	Y	PASS
3	0.1284	53.72	-13.01	105.42	51.70	100	54	Y	PASS
4	0.1500	49.69	-12.72	104.08	54.39	100	232	Y	PASS
5	0.3590	45.11	-10.99	96.50	51.39	100	346	Y	PASS
6	0.9261	34.40	-10.45	68.24	33.84	100	271		

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).
4. The other emission levels were very low against the limit.
5. "*" : Fundamental Frequency.

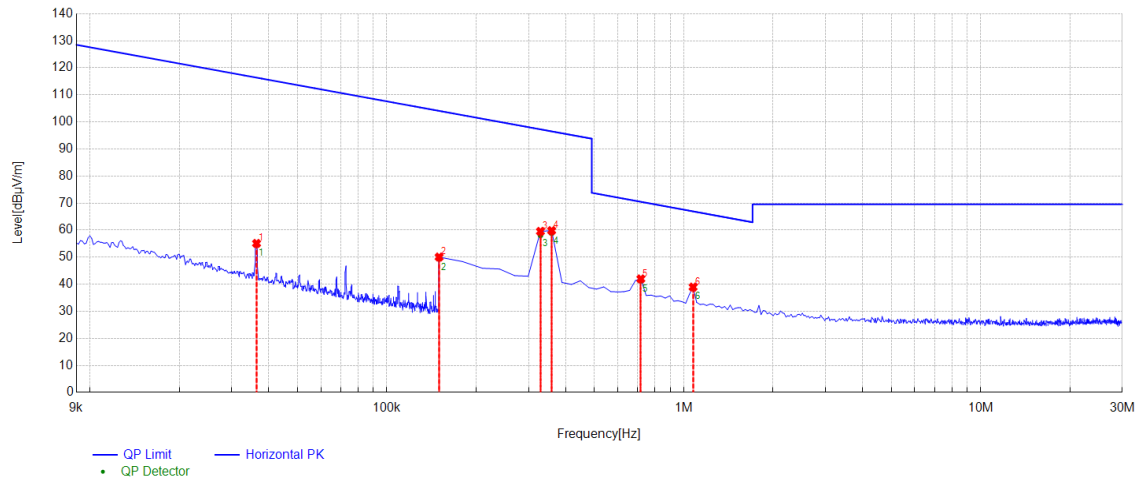


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	55.29	-12.91	116.38	61.09	100	184	Z	PASS
2	0.1284	61.37	-13.01	105.42	44.05	100	145	Z	PASS
3	0.1500	50.65	-12.72	104.08	53.43	100	208	Z	PASS
4	0.2396	48.68	-11.81	100.01	51.33	100	114	Z	PASS
5	0.3590	47.75	-10.99	96.50	48.75	100	251	Z	PASS
6	0.6276	40.22	-10.36	71.64	31.42	100	68	Z	PASS

Remarks:

1. Result value (dBμV/m) = Reading value (dBμV/m) + Correction Factor (dB/m).
2. Margin (dB) = Result value (dBμV/m) - Limit value (dBμV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBμV/m) + Cable Loss (dB) - Preamplifier Factor (dB).
4. The other emission levels were very low against the limit.
5. "*" : Fundamental Frequency.

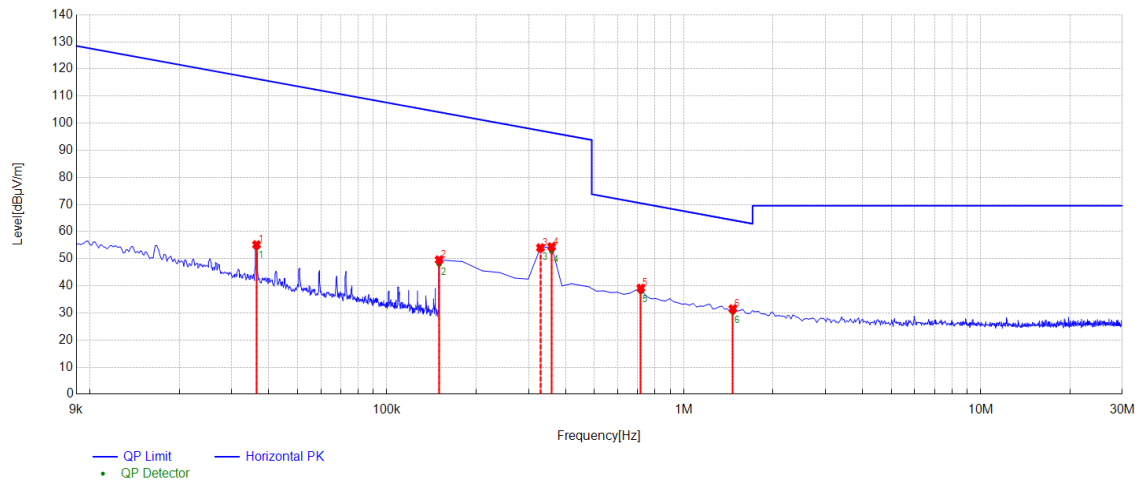
Mode 5



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	55.09	-12.91	116.38	61.29	100	77	X	PASS
2	0.1500	50.05	-12.72	104.08	54.03	100	131	X	PASS
3	0.3291	59.53	-11.10	97.26	37.73	100	222	X	PASS
4	0.3590	59.82	-10.99	96.50	36.68	100	222	X	PASS
5	0.7171	41.98	-10.31	70.47	28.49	100	69	X	PASS
6	1.0754	38.94	-10.54	66.93	27.99	100	238	X	PASS

Remarks:

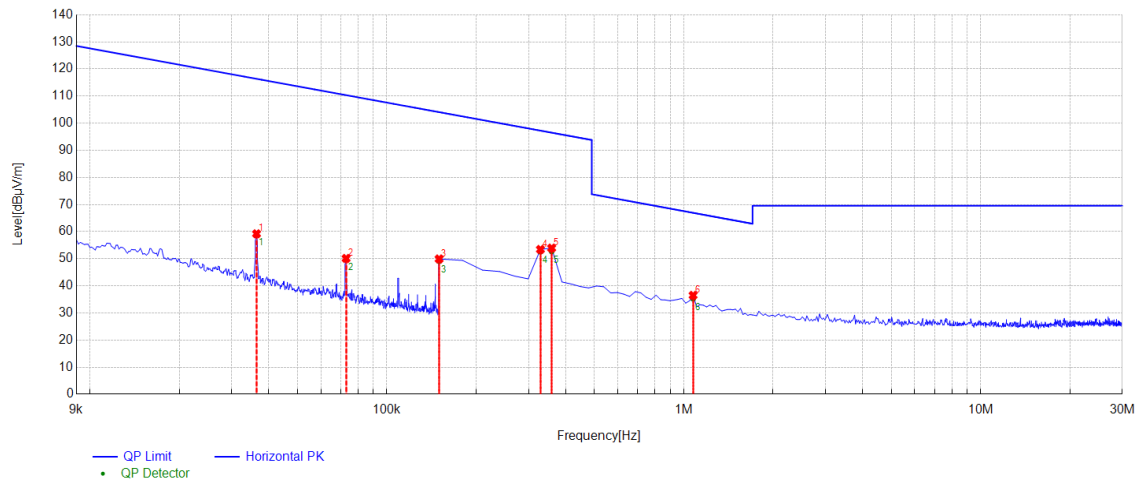
1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The other emission levels were very low against the limit.
5. “*” : Fundamental Frequency.



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	55.18	-12.91	116.38	61.20	100	223	Y	PASS
2	0.1500	49.58	-12.72	104.08	54.50	100	346	Y	PASS
3	0.3291	54.04	-11.10	97.26	43.22	100	314	Y	PASS
4	0.3590	54.43	-10.99	96.50	42.07	100	314	Y	PASS
5	0.7171	39.14	-10.31	70.47	31.33	100	134	Y	PASS
6	1.4634	31.53	-10.49	64.24	32.71	100	206	Y	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The other emission levels were very low against the limit.
5. "*" : Fundamental Frequency.

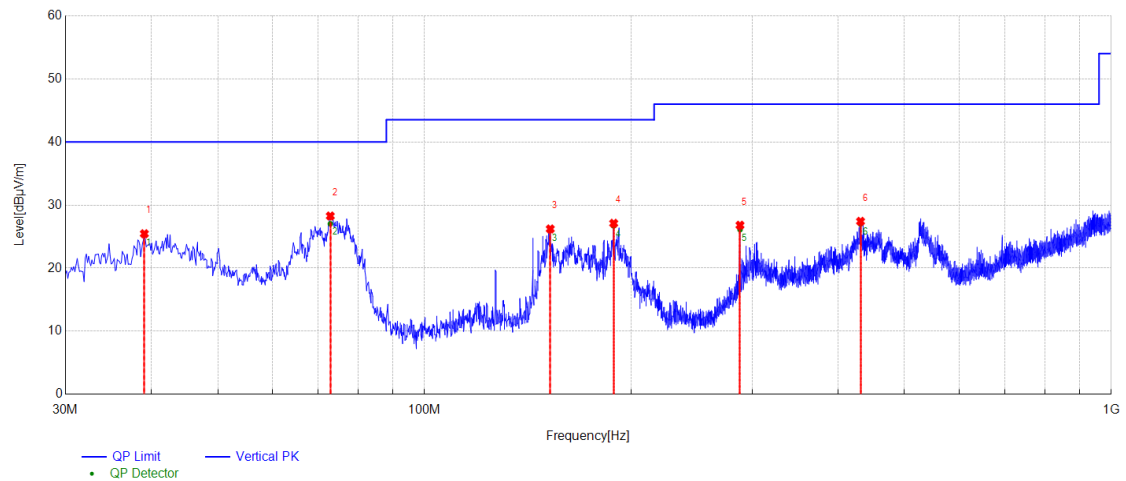


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	0.0364	59.20	-12.91	116.38	57.18	100	335	Z	PASS
2	0.0729	50.10	-13.75	110.34	60.24	100	243	Z	PASS
3	0.1500	49.92	-12.72	104.08	54.16	100	277	Z	PASS
4	0.3291	53.43	-11.10	97.26	43.83	100	330	Z	PASS
5	0.3590	53.92	-10.99	96.50	42.58	100	22	Z	PASS
6	1.0754	36.48	-10.54	66.93	30.45	100	205	Z	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The other emission levels were very low against the limit.
5. “*” : Fundamental Frequency.

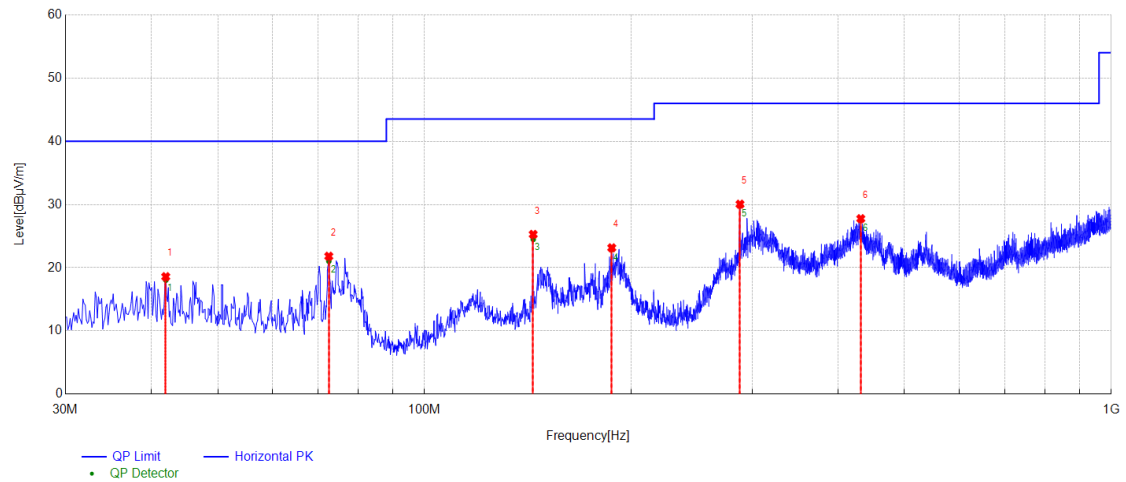
30-1000MHz
Mode 2



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	39.0938	25.46	-15.97	40.00	14.54	100	79	Vertical	PASS
2	72.9225	28.27	-18.96	40.00	11.73	100	133	Vertical	PASS
3	152.462	26.22	-15.89	43.50	17.28	100	91	Vertical	PASS
4	188.595	27.11	-18.39	43.50	16.39	100	106	Vertical	PASS
5	288.020	26.81	-16.49	46.00	19.19	100	11	Vertical	PASS
6	431.458	27.42	-12.68	46.00	18.58	100	214	Vertical	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).

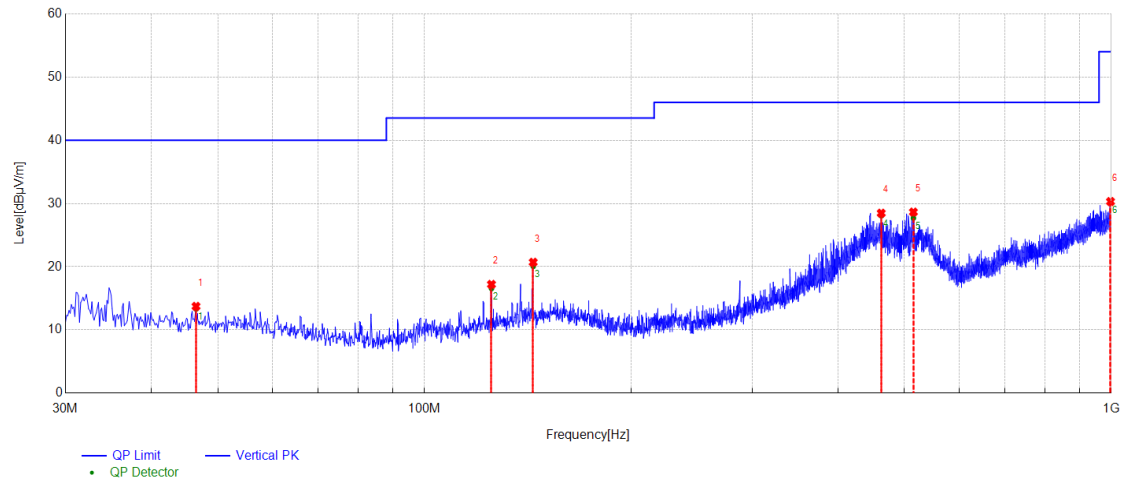


NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	42.0037	18.59	-15.84	40.00	21.41	100	350	Horizontal	PASS
2	72.5588	21.82	-18.95	40.00	18.18	100	350	Horizontal	PASS
3	143.975	25.28	-16.26	43.50	18.22	100	350	Horizontal	PASS
4	187.382	23.15	-18.28	43.50	20.35	100	278	Horizontal	PASS
5	288.020	30.05	-16.49	46.00	15.95	100	174	Horizontal	PASS
6	431.822	27.76	-12.67	46.00	18.24	100	260	Horizontal	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).

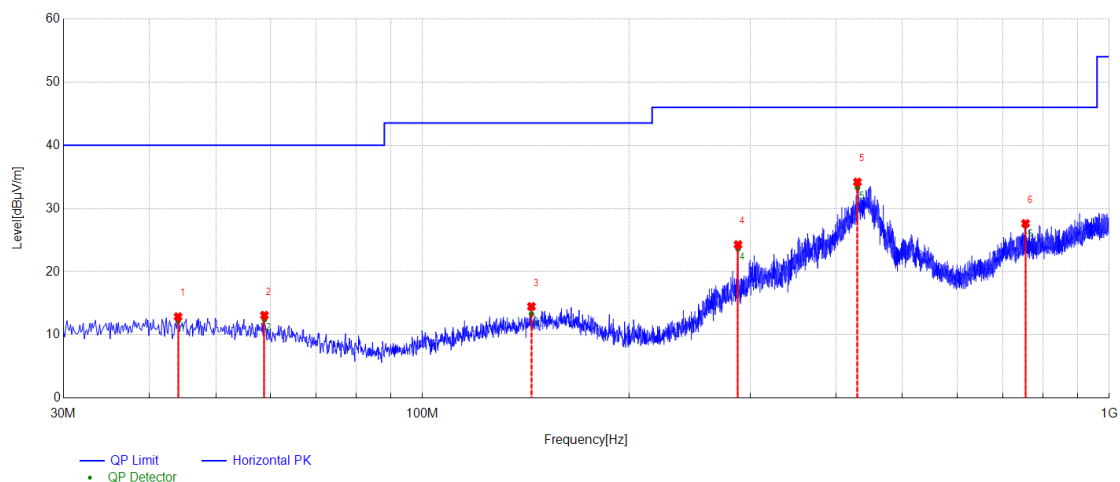
Mode 5



NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	46.4900	13.74	-15.97	40.00	26.26	100	11	Vertical	PASS
2	125.181	17.21	-17.20	43.50	26.29	100	224	Vertical	PASS
3	143.975	20.71	-16.26	43.50	22.79	100	258	Vertical	PASS
4	462.498	28.47	-11.57	46.00	17.53	100	142	Vertical	PASS
5	515.121	28.65	-11.18	46.00	17.35	100	360	Vertical	PASS
6	997.575	30.31	-1.23	54.00	23.69	100	283	Vertical	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	44.0650	12.89	-15.92	40.00	27.11	100	88	Horizontal	PASS
2	58.8575	13.12	-16.78	40.00	26.88	100	266	Horizontal	PASS
3	144.096	14.51	-16.25	43.50	28.99	100	293	Horizontal	PASS
4	288.020	24.29	-16.49	46.00	21.71	100	293	Horizontal	PASS
5	429.882	34.18	-12.73	46.00	11.82	100	76	Horizontal	PASS
6	755.196	27.63	-5.55	46.00	18.37	100	78	Horizontal	PASS

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).

3.3 20dB Occupied bandwidth

Test Method:

The test method was referred to the subclause 6.9.2 of ANSI C63.10-2020.

The occupied bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are -6 dB, -20 dB, and -26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by “-xx dB.” The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the “-xx dB” bandwidth; other requirements might specify that the “-xx dB” bandwidth be entirely contained within the authorized or designated frequency band.

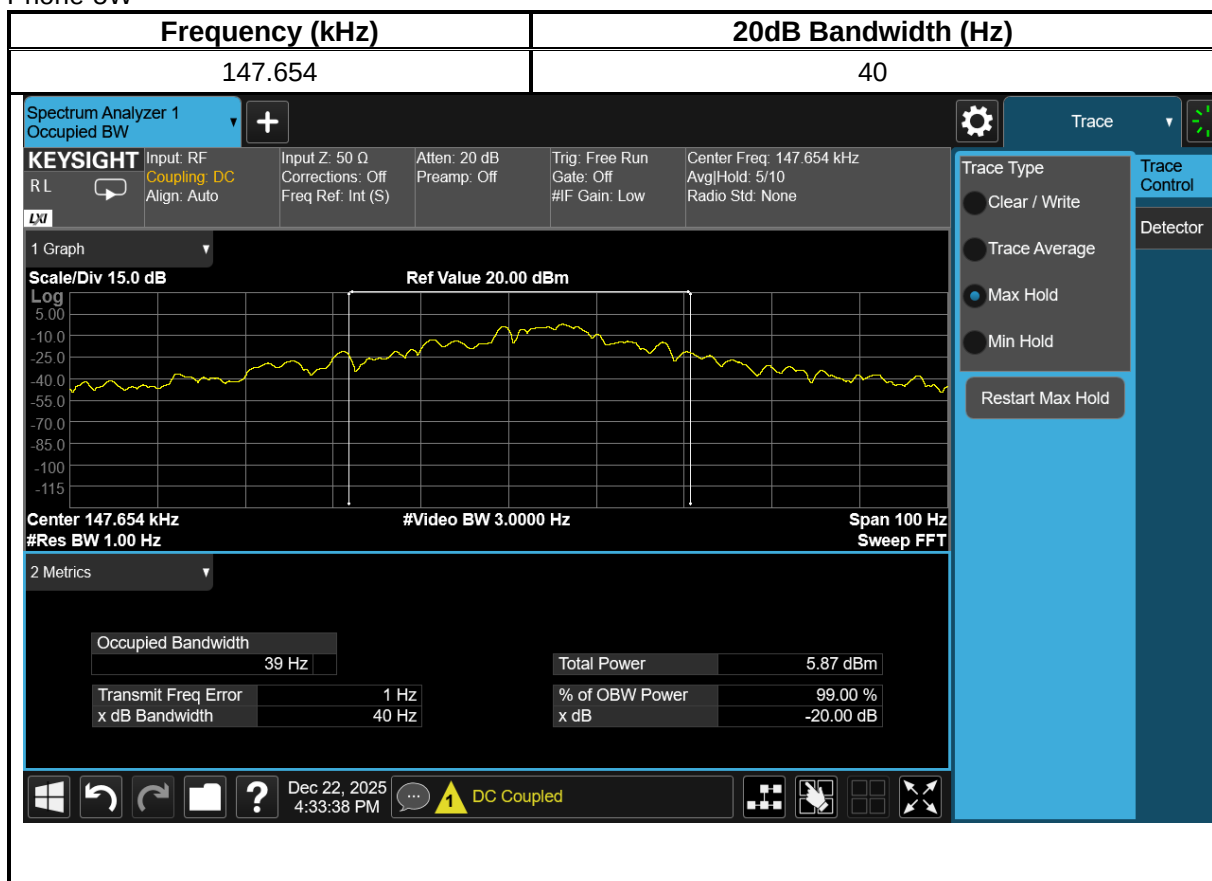
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and 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 “ixx 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 “ixx 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).

Limit:

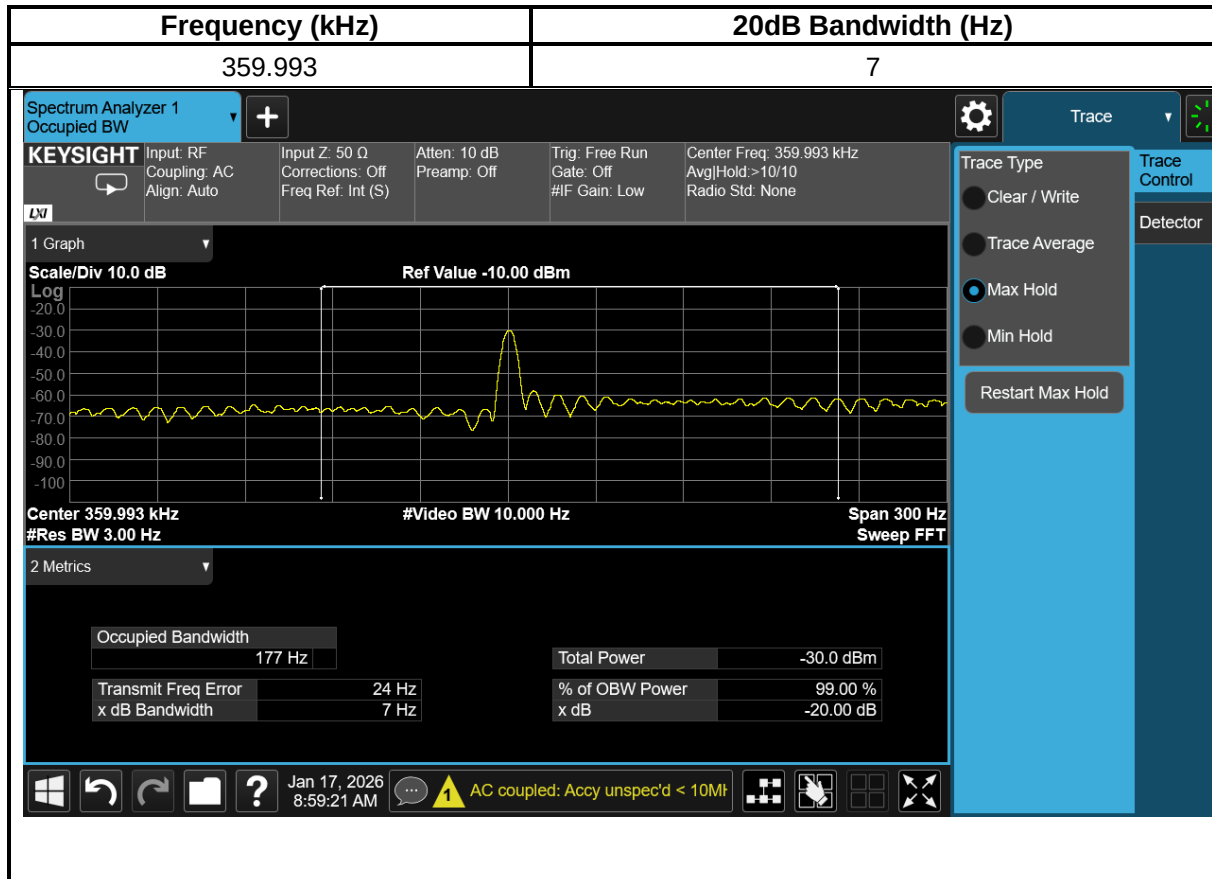
The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

Test Result:

Phone-5W



Phone-15W



-End of report-