

# RADIO PERFORMANCE TEST REPORT

**Test Report No.** : OT-21N-RWD-074

**Reception No.** : 2111004819

**Applicant** : Samsung Electronics Co., Ltd.

**Address** : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058

**Manufacturer** : Samsung Electronics Co., Ltd.

**Address** : Yen Phong 1 Industrial park, Yen Phong District Bac Ninh Province, VIETNAM

**Type of Equipment** : WIRELESS CHARGER DUO

**FCC ID.** : A3LEPP5400

**Model Name** : EP-P5400

**Multiple Model Name** : N/A

**Serial number** : RF7RB00DT0XWSB

**Total page of Report** : 59 pages (including this page)

**Date of Incoming** : November 16, 2021

**Date of issue** : November 30, 2021

## SUMMARY

The equipment complies with the regulation; **FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209**

This test report only contains the result of a single test of the sample supplied for the examination.

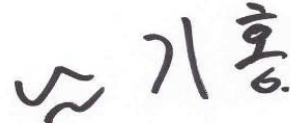
It is not a generally valid assessment of the features of the respective products of the mass-production.



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**CONTENTS**

**PAGE**

**1. VERIFICATION OF COMPLIANCE .....6**

**2. TEST SUMMARY .....7**

    2.1 TEST ITEMS AND RESULTS .....7

    2.2 ADDITIONS, DEVIATIONS, EXCLUSIONS FROM STANDARDS.....7

    2.3 RELATED SUBMITTAL(S) / GRANT(S) .....7

    2.4 PURPOSE OF THE TEST .....7

    2.5 TEST METHODOLOGY.....7

    2.6 TEST FACILITY.....7

**3. GENERAL INFORMATION .....8**

    3.1 PRODUCT DESCRIPTION.....8

    3.2 ACCESSORIES DESCRIPTION.....8

    3.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT.....8

**4. EUT MODIFICATIONS .....8**

**5. SYSTEM TEST CONFIGURATION .....9**

    5.1 JUSTIFICATION.....9

    5.2 PERIPHERAL EQUIPMENT .....9

    5.3 MODE OF OPERATION DURING THE TEST .....10

    5.4 CONFIGURATION OF TEST SYSTEM.....12

    5.5 ANTENNA REQUIREMENT .....12

**6. PRELIMINARY TEST .....12**

    6.1 AC POWER LINE CONDUCTED EMISSIONS TESTS.....12

    6.2 GENERAL RADIATED EMISSIONS TESTS .....12

**7. SPURIOUS EMISSION TEST .....13**

    7.1 REGULATION .....13

    7.2 TEST SET-UP .....13

    7.3 TEST DATE.....13

    7.4 TEST DATA FOR MODE 1 (FREQUENCY : 127.7 kHz / ACCESSORIES : EARPHONES) .....14

        7.4.1 *Spurious Radiated Emission Below 30 MHz* .....14

        7.4.2 *Spurious Radiated Emission below 1 GHz*.....15

    7.5 TEST DATA FOR MODE 2 (FREQUENCY : 146.0 kHz / ACCESSORIES : WATCHES).....16

        7.5.1 *Spurious Radiated Emission Below 30 MHz* .....16

        7.5.2 *Spurious Radiated Emission below 1 GHz*.....17

<b>7.6 TEST DATA FOR MODE 3 (FREQUENCY : 127.7 kHz / ACCESSORIES : MOBILE 1)</b> .....	18
<b>7.6.1 Spurious Radiated Emission Below 30 MHz</b> .....	18
<b>7.6.2 Spurious Radiated Emission below 1 GHz</b> .....	19
<b>7.7 TEST DATA FOR MODE 4 (FREQUENCY : 127.7 kHz / ACCESSORIES : MOBILE 1)</b> .....	20
<b>7.7.1 Spurious Radiated Emission Below 30 MHz</b> .....	20
<b>7.7.2 Spurious Radiated Emission below 1 GHz</b> .....	21
<b>7.8 TEST DATA FOR MODE 5 (FREQUENCY : 127.7 kHz / ACCESSORIES : MOBILE 1)</b> .....	22
<b>7.8.1 Spurious Radiated Emission Below 30 MHz</b> .....	22
<b>7.8.2 Spurious Radiated Emission below 1 GHz</b> .....	23
<b>7.9 TEST DATA FOR MODE 6 (FREQUENCY : 120.5 kHz / ACCESSORIES : MOBILE 2)</b> .....	24
<b>7.9.1 Spurious Radiated Emission Below 30 MHz</b> .....	24
<b>7.9.2 Spurious Radiated Emission below 1 GHz</b> .....	25
<b>7.10 TEST DATA FOR MODE 7 (FREQUENCY : 127.7 kHz / ACCESSORIES : EARPHONES)</b> .....	26
<b>7.10.1 Spurious Radiated Emission Below 30 MHz</b> .....	26
<b>7.10.2 Spurious Radiated Emission below 1 GHz</b> .....	27
<b>7.11 TEST DATA FOR MODE 8 (FREQUENCY : 146.0 kHz / ACCESSORIES : WATCHES)</b> .....	28
<b>7.11.1 Spurious Radiated Emission Below 30 MHz</b> .....	28
<b>7.11.2 Spurious Radiated Emission below 1 GHz</b> .....	29
<b>7.12 TEST DATA FOR MODE 9 (FREQUENCY : 127.7 kHz / ACCESSORIES : EARPHONES)</b> .....	30
<b>7.12.1 Spurious Radiated Emission Below 30 MHz</b> .....	30
<b>7.12.2 Spurious Radiated Emission below 1 GHz</b> .....	31
<b>7.13 TEST DATA FOR MODE 10 (FREQUENCY : 127.7 kHz + 127.7 kHz / ACCESSORIES : MOBILE + EARPHONES)</b> .....	32
<b>7.13.1 Spurious Radiated Emission Below 30 MHz</b> .....	32
<b>7.13.2 Spurious Radiated Emission below 1 GHz</b> .....	33
<b>7.14 TEST DATA FOR MODE 11 (FREQUENCY : 127.7 kHz + 146.0 kHz / ACCESSORIES : MOBILE + WATCHES)</b> .....	34
<b>7.14.1 Spurious Radiated Emission Below 30 MHz</b> .....	34
<b>7.14.2 Spurious Radiated Emission below 1 GHz</b> .....	35
<b>8. CONDUCTED EMISSION TEST</b> .....	<b>36</b>
<b>8.1 OPERATING ENVIRONMENT</b> .....	36
<b>8.2 TEST SET-UP</b> .....	36
<b>8.3 TEST EQUIPMENT USED</b> .....	36
<b>8.4 TEST DATE</b> .....	36
<b>8.5 TEST DATA FOR MODE 1 (FREQUENCY : 127.7 kHz / ACCESSORIES : EARPHONES)</b> .....	37
<b>8.6 TEST DATA FOR MODE 2 (FREQUENCY : 146.0 kHz / ACCESSORIES : WATCHES)</b> .....	39
<b>8.7 TEST DATA FOR MODE 3 (FREQUENCY : 127.7 kHz / ACCESSORIES : MOBILE 1)</b> .....	41
<b>8.8 TEST DATA FOR MODE 4 (FREQUENCY : 127.7 kHz / ACCESSORIES : MOBILE 1)</b> .....	43
<b>8.9 TEST DATA FOR MODE 5 (FREQUENCY : 127.7 kHz / ACCESSORIES : MOBILE 1)</b> .....	45

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<b>8.10 TEST DATA FOR MODE 6 (FREQUENCY : 120.5 KHZ / ACCESSORIES : MOBILE 2)</b> .....	<b>47</b>
<b>8.11 TEST DATA FOR MODE 7 (FREQUENCY : 127.7 KHZ / ACCESSORIES : EARPHONES)</b> .....	<b>49</b>
<b>8.12 TEST DATA FOR MODE 8 (FREQUENCY : 146.0 KHZ / ACCESSORIES : WATCHES)</b> .....	<b>51</b>
<b>8.13 TEST DATA FOR MODE 9 (FREQUENCY : 127.7 KHZ / ACCESSORIES : EARPHONES)</b> .....	<b>53</b>
<b>8.14 TEST DATA FOR MODE 10 (FREQUENCY : 127.7 KHZ + 127.7 KHZ / ACCESSORIES : MOBILE + EARPHONES)</b> .....	<b>55</b>
<b>8.15 TEST DATA FOR MODE 11 (FREQUENCY : 127.7 KHZ + 146.0 KHZ / ACCESSORIES : MOBILE + WATCHES)</b> .....	<b>57</b>
<b>9. LIST OF TEST EQUIPMENT</b> .....	<b>59</b>

**Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-21N-RWD-074	November 30, 2021	Initial Release	All

## 1. VERIFICATION OF COMPLIANCE

APPLICANT : Samsung Electronics Co., Ltd.  
 ADDRESS : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058  
 CONTACT PERSON : Jenni, Chun / General Manager  
 TELEPHONE NO : +973-808-6375  
 FCC ID : A3LEPP5400  
 MODEL NAME : EP-P5400  
 BRAND NAME : -  
 SERIAL NUMBER : RF7RB00DT0XWSB  
 DATE : November 30, 2021

EQUIPMENT CLASS	<b>DCD – Part 15 Low Power Transmitter Below 1 705 kHz</b>
KIND OF EQUIPMENT	WIRELESS CHARGER DUO
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC&IC RULES PART(S)	FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. The equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. TEST SUMMARY

### 2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.209, 15.209(a)	Radiated emission, Spurious Emission and Field Strength of Fundamental	Met the Limit / PASS
15.207	Transmitter AC Power Line Conducted Emission	Met the Limit / PASS

### 2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

### 2.3 Related Submittal(s) / Grant(s)

Original submittal only

### 2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC CFR47 Part 15 Subpart C Section 15.207 and 15.209.

### 2.5 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.10: 2020 at a distance of 3 m from EUT to the antenna.

### 2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

### 3. GENERAL INFORMATION

#### 3.1 Product Description

The Samsung Electronics Co., Ltd., Model: EP-P5400 (referred to as the EUT in this report) is an WIRELESS CHARGER DUO. Product specification information described herein was obtained from product data sheet or user’s manual.

DEVICE TYPE	WIRELESS CHARGER DUO
OPERATING FREQUENCY	Antenna 1 : 119 kHz ~ 122 kHz, 126.2 kHz ~ 129.2 kHz Antenna 2 : 126.2 kHz ~ 129.2 kHz Antenna 3 : 144.5 kHz ~ 147.5 kHz
RATED RF OUTPUT POWER	76.7 dB $\mu$ V/m
ANTENNA TYPE	Antenna 1 (Single Coil) Antenna 2 (Alpha Coil) Antenna 3 (Gear Coil)
MODULATION	ASK
RATED SUPPLY VOLTAGE	DC 9.0 V

#### 3.2 Accessories Description

DEVICE	MODEL	MANUFACTURER	SERIAL	SETTING SPECIFICATION	
				WATT	FREQUENCY
Mobile 1 (Galaxy S21)	SM-G991U	SAMSUNG	R3CNA03H82J	4.5W / 7.5W / 15W	127.7 kHz
Mobile 2 (Galaxy Note 10)	SM-N970U	SAMSUNG	R38M60EDYJT	4.5W	120.5 kHz
Earphones (Earbuds)	SM-R190	SAMSUNG	RF2R10C8P1X	2W	127.7 kHz
Watches (Galaxy Watch 4)	SM-R860	SAMSUNG	R3AR404F1TB	2W	146 kHz

#### 3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

### 4. EUT MODIFICATIONS

-. None



## 5. SYSTEM TEST CONFIGURATION

### 5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	EP-P5400_04	N/A
FAN	N/A	N/A	N/A
Adapter	Samsung Electronics Co., Ltd.	EP-TA500	N/A

### 5.2 Peripheral equipment

-. None

### 5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set as following condition.

-Multi Frequency (The test point is indicated by “\*” in the antenna column).

Mode	Ant.	Operating Frequency	Tx. Frequency	Set. Watt	Acc.
Mode 1 (idle 1)	1	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
	*2	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
Mode 2 (idle 2)	1	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
	*3	144.5 kHz ~ 147.5 kHz	146.0 kHz	2 W	Watches (Galaxy Watch4)
Mode 3 (Mobile)	*1	126.2 kHz ~ 129.2 kHz	127.7 kHz	4.5 W	Mobile 1 (Galaxy S21)
	2	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
Mode 4 (Mobile)	*1	126.2 kHz ~ 129.2 kHz	127.7 kHz	7.5 W	Mobile 1 (Galaxy S21)
	2	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
Mode 5 (Mobile)	*1	126.2 kHz ~ 129.2 kHz	127.7 kHz	15 W	Mobile 1 (Galaxy S21)
	2	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
Mode 6 (Specific Mobile)	*1	119.0 kHz ~ 122.0 kHz	120.5 kHz	4.5 W	Mobile 2 (Galaxy Note 10)
	2	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
Mode 7 (Mobile)	*1	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
	2	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None

Mode 8 (Watches)	1	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
	*3	144.5 kHz ~ 147.5 kHz	146.0 kHz	2 W	Watches (Galaxy Watch4)
Mode 9 (Earphones)	1	126.2 kHz ~ 129.2 kHz	127.7 kHz	None	None
	*2	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
Mode 10 (Mobile + Earphones)	*1	126.2 kHz ~ 129.2 kHz	127.7 kHz	15 W	Mobile 1 (Galaxy S21)
	*2	126.2 kHz ~ 129.2 kHz	127.7 kHz	2 W	Earphones (Earbuds)
Mode 11 (Mobile + Watches)	*1	126.2 kHz ~ 129.2 kHz	127.7 kHz	15 W	Mobile 1 (Galaxy S21)
	*3	144.5 kHz ~ 147.5 kHz	146.0 kHz	2 W	Watches (Galaxy Watch4)

for DC 9.0 V.

To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis.

### 5.4 Configuration of Test System

**Line Conducted Test** : The EUT was tested in a charging mode. The EUT was connected to USB and the power of USB was connected to Adapter. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4: 2009 7.3.3 to determine the worse operating conditions.

**Radiated Emission Test** : Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

### 5.5 Antenna Requirement

According to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

**Antenna Construction:**

The antenna of the EUT is a Coil Antenna on the main board in the EUT, so no consideration of replacement by the user.

## 6. PRELIMINARY TEST

### 6.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode & Charging Mode	X

### 6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode & Charging Mode	X

## 7. Spurious Emission Test

### 7.1 Regulation

According to §15.209(a), for an intentional device, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency [MHz]	Field strength [ $\mu$ V/m]	Field strength [dB $\mu$ V/m]	Measurement distance [m]
0.009 ~ 0.490	2 400 / F (kHz)	48.52 ~ 13.80	300
0.490 ~ 1.705	24 000 / F (kHz)	33.8 ~ 22.97	30
1.705 ~ 30	30	29.50	30
30 ~ 88	*100	40.00	3
88 ~ 216	*150	43.52	3
216 ~ 960	*200	46.02	3
Above 960	500	53.98	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., Sections 15.231 and 15.241.

### 7.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 kHz to 1 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 ms in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

### 7.3 Test date

November 16, 2021

**7.4 Test data for Mode 1 (Frequency : 127.7 kHz / Accessories : Earphones)**

**7.4.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.010	PK	31.7	18.6	0.1	50.4	-29.6	47.6	77.2
0.021	PK	43.2	18.8	0.1	62.1	-17.9	41.2	59.1
0.065	PK	34.8	18.9	0.2	53.9	-26.1	31.3	57.4
*0.128	PK	50.4	18.9	0.2	69.5	-10.5	25.5	36.0
0.210	PK	32.5	18.9	0.1	51.5	-28.5	21.2	49.7
0.389	PK	31.9	18.9	0.1	50.9	-29.1	15.8	44.9
0.717	PK	22.3	18.8	0.1	41.2	-38.8	-9.5	29.3
0.866	PK	17.9	18.8	0.1	36.8	-43.2	-11.1	32.1

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.598	PK	10.3	18.9	0.3	29.5	-10.5	29.5	40.0
9.314	PK	7.7	19.3	0.5	27.5	-12.5	29.5	42.0
18.687	PK	9.4	19.6	0.8	29.8	-10.2	29.5	39.7

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]  
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,  
 Below 30 MHz

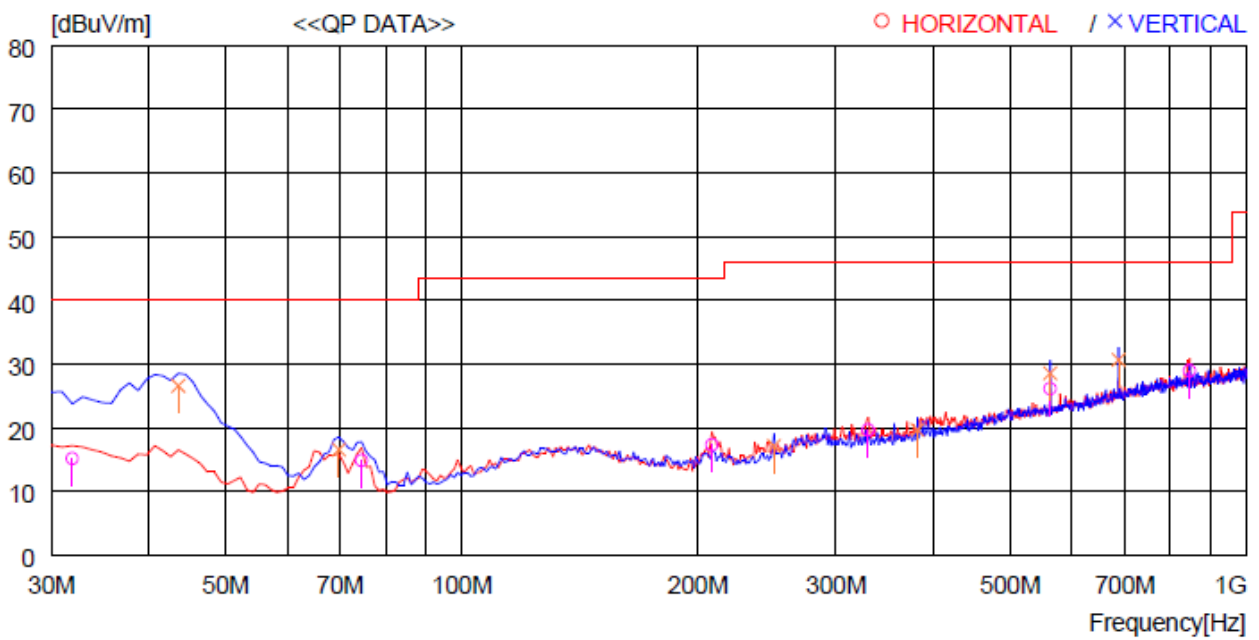
**7.4.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	31.940	25.8	20.3	1.2	32.1	15.2	40.0	24.8	400	5
2	74.620	32.4	12.9	1.6	32.0	14.9	40.0	25.1	300	0
3	208.480	31.0	16.0	2.5	32.1	17.4	43.5	26.1	200	359
4	329.730	29.1	19.6	3.2	32.2	19.7	46.0	26.3	100	254
5	562.529	30.7	23.8	4.1	32.4	26.2	46.0	19.8	200	263
6	846.731	28.8	27.3	5.1	32.2	29.0	46.0	17.0	100	0
----- Vertical -----										
7	43.580	41.5	15.8	1.3	32.0	26.6	40.0	13.4	100	359
8	69.770	34.1	12.9	1.6	32.0	16.6	40.0	23.4	200	0
9	250.190	28.8	17.8	2.8	32.2	17.2	46.0	28.8	200	0
10	381.140	28.1	20.4	3.4	32.2	19.7	46.0	26.3	100	359
11	562.529	33.1	23.8	4.1	32.4	28.6	46.0	17.4	100	359
12	687.655	33.1	25.4	4.6	32.4	30.7	46.0	15.3	100	359

**7.5 Test data for Mode 2 (Frequency : 146.0 kHz / Accessories : Watches)**

**7.5.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.021	PK	45.3	18.8	0.1	64.2	-15.8	41.2	57.0
0.031	PK	31.3	18.9	0.2	50.4	-29.6	37.8	67.4
0.042	PK	41.1	18.9	0.2	60.2	-19.8	35.1	54.9
0.063	PK	35.6	18.9	0.2	54.7	-25.3	31.6	56.9
0.087	PK	32.5	18.9	0.2	51.6	-28.4	28.8	57.2
*0.146	PK	48.4	18.9	0.2	67.5	-12.5	24.3	36.8
0.21	PK	32.4	18.9	0.1	51.4	-28.6	21.2	49.8
0.389	PK	32.2	18.9	0.1	51.2	-28.8	15.8	44.6
0.717	PK	22.2	18.8	0.1	41.1	-38.9	-9.5	29.4

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.687	PK	14.6	18.9	0.3	33.8	-6.2	29.5	35.7
18.747	PK	9.1	19.6	0.8	29.5	-10.5	29.5	40.0

-. “\*” Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]  
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,  
 Below 30 MHz



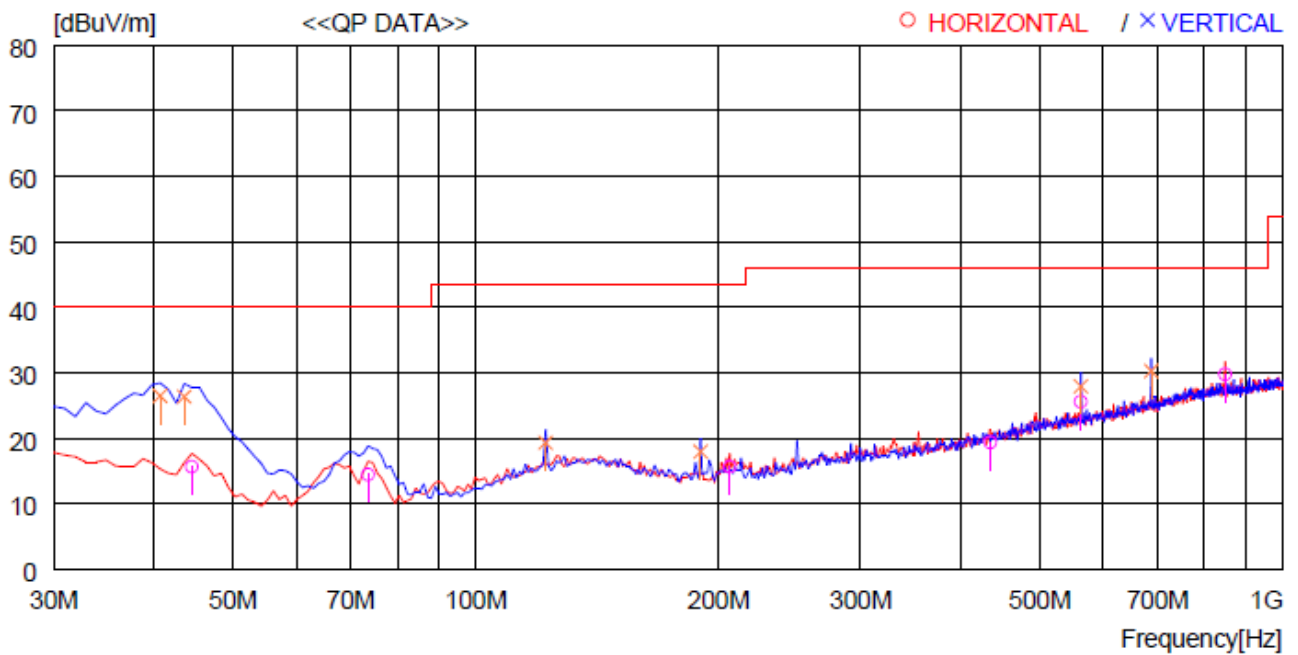
**7.5.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	44.550	31.0	15.4	1.3	32.0	15.7	40.0	24.3	400	221
2	73.650	32.0	12.9	1.6	32.0	14.5	40.0	25.5	300	0
3	206.540	29.4	15.9	2.5	32.1	15.7	43.5	27.8	200	184
4	434.491	26.5	21.5	3.6	32.2	19.4	46.0	26.6	100	0
5	562.529	30.1	23.8	4.1	32.4	25.6	46.0	20.4	200	110
6	848.670	29.6	27.3	5.1	32.2	29.8	46.0	16.2	300	0
----- Vertical -----										
7	40.670	40.2	17.0	1.3	32.0	26.5	40.0	13.5	100	88
8	43.580	41.3	15.8	1.3	32.0	26.4	40.0	13.6	100	46
9	122.150	30.8	18.7	2.0	32.1	19.4	43.5	24.1	400	319
10	190.050	31.6	16.1	2.4	32.1	18.0	43.5	25.5	400	0
11	562.529	32.5	23.8	4.1	32.4	28.0	46.0	18.0	100	357
12	687.655	32.7	25.4	4.6	32.4	30.3	46.0	15.7	100	205

**7.6 Test data for Mode 3 (Frequency : 127.7 kHz / Accessories : Mobile 1)**

**7.6.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.033	PK	54.7	18.9	0.2	73.8	-6.2	37.2	43.4
0.064	PK	47.1	18.9	0.2	66.2	-13.8	31.5	45.3
0.076	PK	45.0	18.9	0.2	64.1	-15.9	30.0	45.9
0.098	PK	40.2	18.9	0.2	59.3	-20.7	27.8	48.5
*0.128	PK	56.2	18.9	0.2	75.3	-4.7	25.5	30.2
0.180	PK	38.9	18.9	0.2	58.0	-22.0	22.5	44.5
0.359	PK	36.6	18.9	0.1	55.6	-24.4	16.5	40.9
0.628	PK	25.0	18.8	0.1	43.9	-36.1	-8.5	27.6
0.896	PK	19.5	18.8	0.1	38.4	-41.6	-11.4	30.2

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.598	PK	10.7	18.9	0.3	29.9	-10.1	29.5	39.6
18.538	PK	15.1	19.6	0.8	35.5	-4.5	29.5	34.0

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

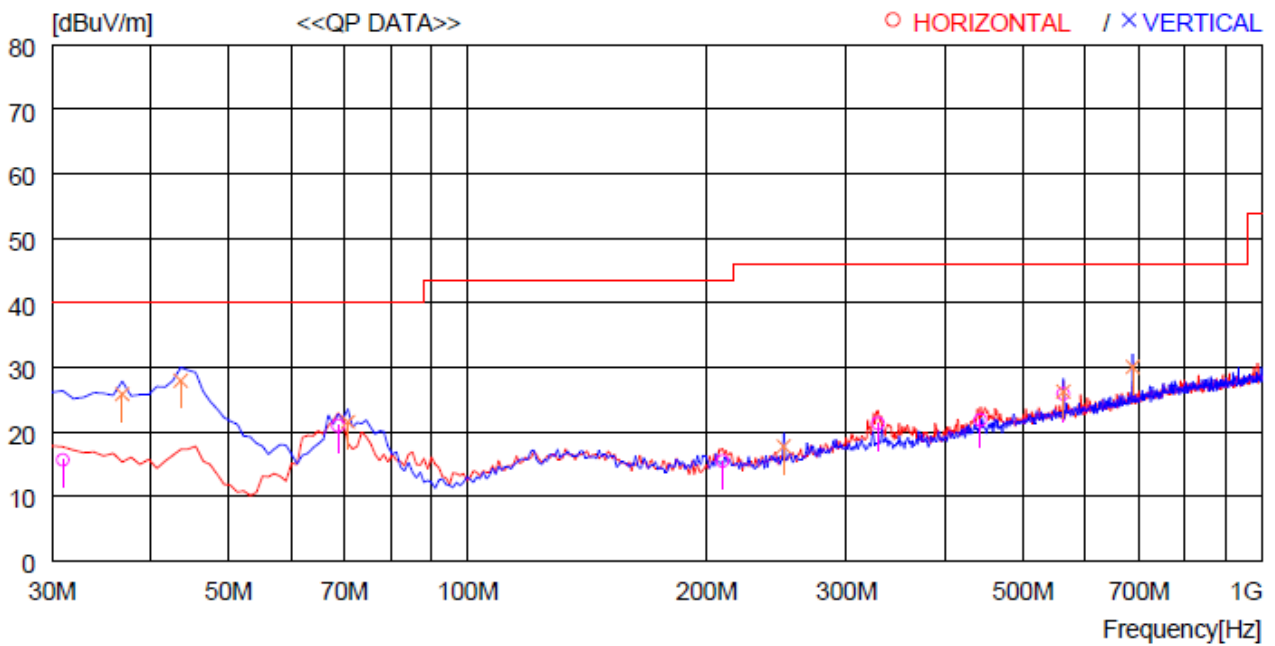
**7.6.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.970	25.9	20.7	1.2	32.1	15.7	40.0	24.3	300	273
2	68.800	38.6	12.8	1.6	32.0	21.0	40.0	19.0	200	0
3	209.450	29.1	16.0	2.5	32.1	15.5	43.5	28.0	100	359
4	328.760	30.9	19.6	3.1	32.2	21.4	46.0	24.6	100	359
5	442.251	28.7	21.7	3.7	32.2	21.9	46.0	24.1	100	359
6	562.529	30.4	23.8	4.1	32.4	25.9	46.0	20.1	200	0
----- Vertical -----										
7	36.790	38.1	18.5	1.3	32.0	25.9	40.0	14.1	100	0
8	43.580	42.9	15.8	1.3	32.0	28.0	40.0	12.0	100	54
9	70.740	39.1	12.9	1.6	32.0	21.6	40.0	18.4	300	321
10	250.190	29.4	17.8	2.8	32.2	17.8	46.0	28.2	200	236
11	562.529	30.8	23.8	4.1	32.4	26.3	46.0	19.7	100	212
12	687.655	32.5	25.4	4.6	32.4	30.1	46.0	15.9	100	0

**7.7 Test data for Mode 4 (Frequency : 127.7 kHz / Accessories : Mobile 1)**

**7.7.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.013	PK	32.3	18.6	0.1	51.0	-29.0	45.3	74.3
0.028	PK	51.9	18.9	0.2	71.0	-9.0	38.7	47.7
0.057	PK	47.6	18.9	0.2	66.7	-13.3	32.5	45.8
0.086	PK	41.2	18.9	0.2	60.3	-19.7	28.9	48.6
*0.128	PK	53.0	18.9	0.2	72.1	-7.9	25.5	33.4
0.180	PK	38.5	18.9	0.2	57.6	-22.4	22.5	44.9
0.359	PK	32.7	18.9	0.1	51.7	-28.3	16.5	44.8
0.717	PK	21.7	18.8	0.1	40.6	-39.4	-9.5	29.9

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.568	PK	10.4	18.9	0.3	29.6	-10.4	29.5	39.9
10.09	PK	7.4	19.3	0.5	27.2	-12.8	29.5	42.3
18.448	PK	10.1	19.6	0.7	30.4	-9.6	29.5	39.1

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

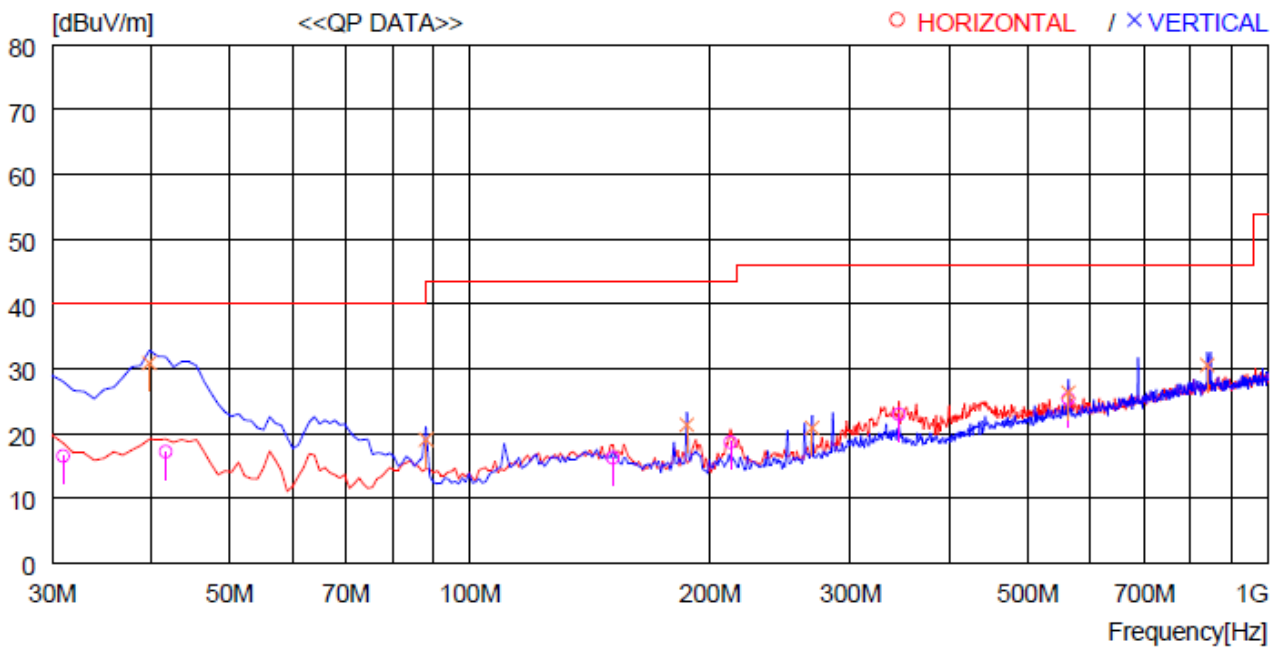
**7.7.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.970	26.8	20.7	1.2	32.1	16.6	40.0	23.4	300	359
2	41.640	31.3	16.6	1.3	32.0	17.2	40.0	22.8	300	359
3	151.250	27.6	18.6	2.2	32.1	16.3	43.5	27.2	200	107
4	212.360	32.2	16.1	2.5	32.1	18.7	43.5	24.8	100	359
5	345.250	32.1	19.9	3.2	32.2	23.0	46.0	23.0	100	359
6	562.529	29.9	23.8	4.1	32.4	25.4	46.0	20.6	200	0
----- Vertical -----										
7	39.700	44.2	17.4	1.3	32.0	30.9	40.0	9.1	100	87
8	88.200	36.0	13.4	1.7	32.0	19.1	43.5	24.4	200	359
9	187.140	34.9	16.2	2.4	32.1	21.4	43.5	22.1	100	36
10	268.620	31.9	18.3	2.9	32.2	20.9	46.0	25.1	100	0
11	562.529	30.9	23.8	4.1	32.4	26.4	46.0	19.6	300	0
12	839.941	30.4	27.3	5.1	32.2	30.6	46.0	15.4	100	356

**7.8 Test data for Mode 5 (Frequency : 127.7 kHz / Accessories : Mobile 1)**

**7.8.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.013	PK	31.7	18.6	0.1	50.4	-29.6	45.3	74.9
0.027	PK	49.8	18.9	0.1	68.8	-11.2	39.0	50.2
0.047	PK	53.8	18.9	0.2	72.9	-7.1	34.2	41.3
0.091	PK	40.8	18.9	0.2	59.9	-20.1	28.4	48.5
*0.128	PK	57.6	18.9	0.2	76.7	-3.3	25.5	28.8
0.180	PK	36.8	18.9	0.2	55.9	-24.1	22.5	46.6
0.359	PK	37.1	18.9	0.1	56.1	-23.9	16.5	40.4
0.628	PK	27.9	18.8	0.1	46.8	-33.2	-8.4	24.8
0.777	PK	31.5	18.8	0.1	50.4	-29.6	-10.2	19.4

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.568	PK	12.9	18.9	0.3	32.1	-7.9	29.5	37.4
18.359	PK	19.3	19.6	0.7	39.6	-0.4	29.5	29.9

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

**7.8.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C

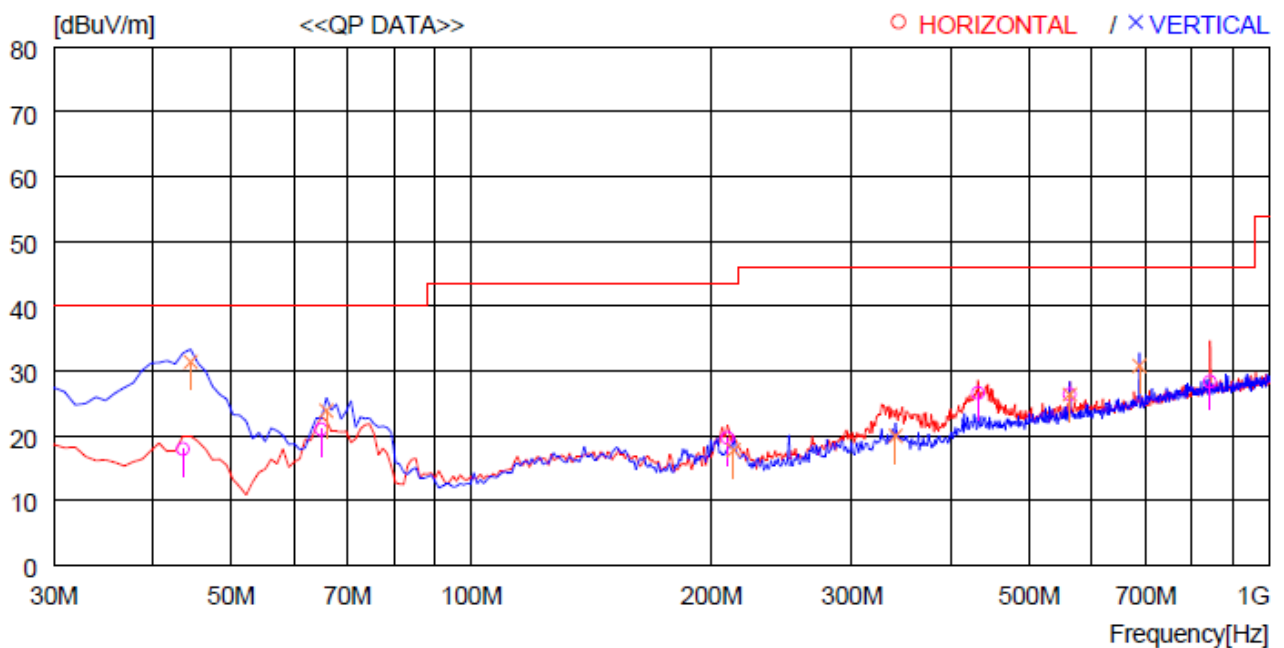
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency range : 30 MHz ~ 1 000 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	43.580	32.9	15.8	1.3	32.0	18.0	40.0	22.0	200	199
2	64.920	39.0	12.5	1.5	32.0	21.0	40.0	19.0	400	32
3	209.450	33.3	16.0	2.5	32.1	19.7	43.5	23.8	200	359
4	431.581	33.7	21.5	3.6	32.2	26.6	46.0	19.4	100	231
5	562.529	30.9	23.8	4.1	32.4	26.4	46.0	19.6	200	50
6	842.851	28.2	27.3	5.1	32.2	28.4	46.0	17.6	300	121
----- Vertical -----										
7	44.550	46.7	15.4	1.3	32.0	31.4	40.0	8.6	100	359
8	65.890	41.8	12.6	1.5	32.0	23.9	40.0	16.1	100	1
9	213.330	31.2	16.2	2.5	32.1	17.8	43.5	25.7	100	359
10	340.400	29.2	19.8	3.2	32.2	20.0	46.0	26.0	100	110
11	562.529	30.9	23.8	4.1	32.4	26.4	46.0	19.6	100	359
12	687.655	33.2	25.4	4.6	32.4	30.8	46.0	15.2	100	359

**7.9 Test data for Mode 6 (Frequency : 120.5 kHz / Accessories : Mobile 2)**

**7.9.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBµV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBµV/m)	Emission Level at 300m (dBµV/m)	Limit at 300m (dBµV/m)	Margin (dB)
0.012	PK	32.2	18.6	0.1	50.9	-29.1	46.0	75.1
0.026	PK	50.8	18.8	0.1	69.7	-10.3	39.3	49.6
0.050	PK	46.1	18.9	0.2	65.2	-14.8	33.6	48.4
0.075	PK	39.8	18.9	0.2	58.9	-21.1	30.1	51.2
*0.121	PK	53.0	18.9	0.2	72.1	-7.9	25.5	33.4
0.180	PK	36.8	18.9	0.2	55.9	-24.1	22.5	46.6
0.389	PK	33.2	18.9	0.1	52.2	-27.8	15.8	43.6
0.568	PK	29.7	18.8	0.1	48.6	-31.4	-7.5	23.9

Frequency (MHz)	Detector	Reading (dBµV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBµV/m)	Emission Level at 30m (dBµV/m)	Limit at 30m (dBµV/m)	Margin (dB)
2.598	PK	10.5	18.9	0.3	29.7	-10.3	29.5	39.8
11.374	PK	8.5	19.3	0.6	28.4	-11.6	29.5	41.1
18.448	PK	11.7	19.6	0.7	32.0	-8.0	29.5	37.5

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB µ V/m] = Reading [dBµV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBµV/m] – Limit at 300m [dBµV/m]

= Emission Level at 300m [dBµV/m] – Limit at 30m [dBµV/m]

-. Emission Level at 300m [dBµV/m] = Emission Level at 3m [dBµV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBµV/m] = Emission Level at 3m [dBµV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz



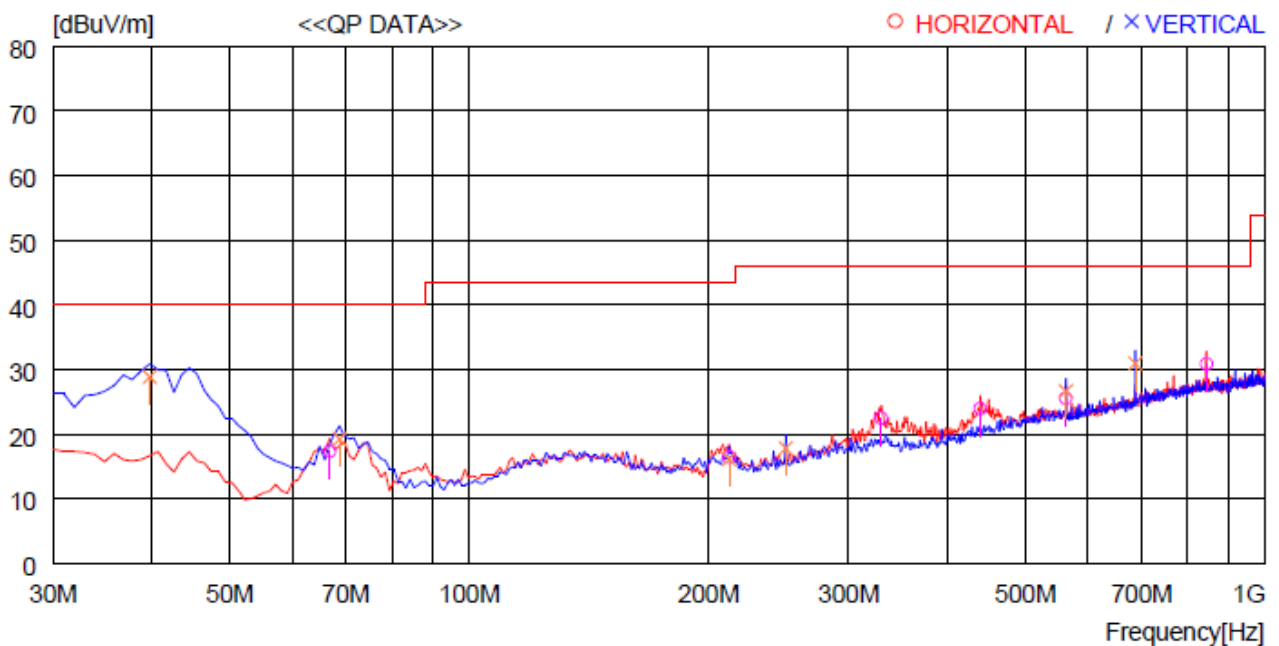
7.9.2 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	66.860	35.2	12.6	1.6	32.0	17.4	40.0	22.6	400	3
2	212.360	30.0	16.1	2.5	32.1	16.5	43.5	27.0	200	80
3	329.730	31.9	19.6	3.2	32.2	22.5	46.0	23.5	100	359
4	439.341	30.9	21.6	3.7	32.2	24.0	46.0	22.0	100	332
5	562.529	30.1	23.8	4.1	32.4	25.6	46.0	20.4	200	0
6	844.791	30.7	27.3	5.1	32.2	30.9	46.0	15.1	400	21
----- Vertical -----										
7	39.700	42.2	17.4	1.3	32.0	28.9	40.0	11.1	100	0
8	68.800	36.9	12.8	1.6	32.0	19.3	40.0	20.7	100	0
9	212.360	29.7	16.1	2.5	32.1	16.2	43.5	27.3	100	0
10	250.190	29.5	17.8	2.8	32.2	17.9	46.0	28.1	200	142
11	562.529	31.2	23.8	4.1	32.4	26.7	46.0	19.3	100	0
12	687.655	33.4	25.4	4.6	32.4	31.0	46.0	15.0	100	318

**7.10 Test data for Mode 7 (Frequency : 127.7 kHz / Accessories : Earphones)**

**7.10.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.022	PK	47.1	18.8	0.1	66.0	-14.0	40.8	54.8
0.044	PK	41.1	18.9	0.1	60.1	-19.9	34.7	54.6
0.066	PK	39.6	18.9	0.2	58.7	-21.3	31.2	52.5
*0.128	PK	52.5	18.9	0.2	71.6	-8.4	25.5	33.9
0.210	PK	33.5	18.9	0.2	52.6	-27.4	21.2	48.6
0.389	PK	32.6	18.9	0.1	51.6	-28.4	15.8	44.2
0.717	PK	22.0	18.8	0.1	40.9	-39.1	-9.5	29.6
0.896	PK	16.9	18.8	0.1	35.8	-44.2	-11.4	32.8

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.598	PK	10.5	18.9	0.3	29.7	-10.3	29.5	39.8
18.478	PK	9.5	19.6	0.8	29.9	-10.1	29.5	39.6
20.388	PK	6.2	19.7	0.8	26.7	-13.3	29.5	42.8

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

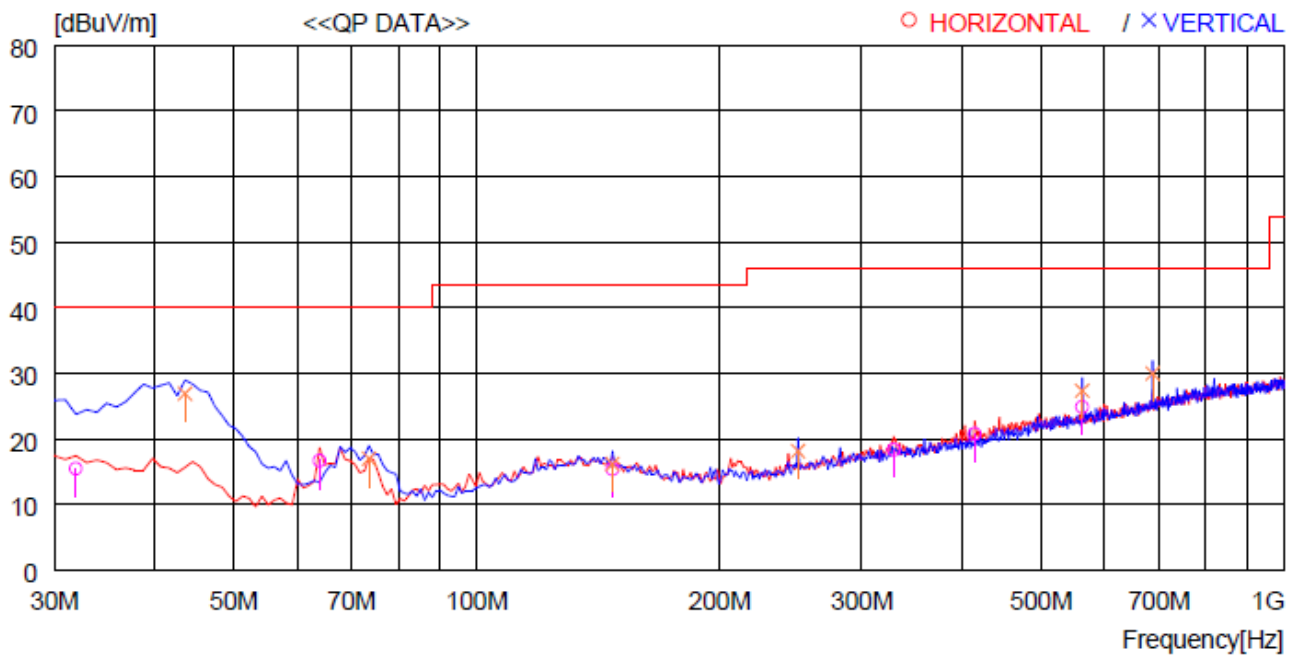
**7.10.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	31.940	26.1	20.3	1.2	32.1	15.5	40.0	24.5	400	0
2	63.950	34.8	12.4	1.5	32.0	16.7	40.0	23.3	300	33
3	147.370	26.5	18.9	2.1	32.1	15.4	43.5	28.1	200	0
4	328.760	27.9	19.6	3.1	32.2	18.4	46.0	27.6	100	100
5	414.121	28.5	21.0	3.5	32.2	20.8	46.0	25.2	100	160
6	562.529	29.4	23.8	4.1	32.4	24.9	46.0	21.1	300	359
----- Vertical -----										
7	43.580	41.9	15.8	1.3	32.0	27.0	40.0	13.0	100	46
8	73.650	34.5	12.9	1.6	32.0	17.0	40.0	23.0	400	359
9	147.370	27.3	18.9	2.1	32.1	16.2	43.5	27.3	300	191
10	250.190	29.8	17.8	2.8	32.2	18.2	46.0	27.8	200	298
11	562.529	31.9	23.8	4.1	32.4	27.4	46.0	18.6	100	165
12	687.655	32.4	25.4	4.6	32.4	30.0	46.0	16.0	100	213

**7.11 Test data for Mode 8 (Frequency : 146.0 kHz / Accessories : Watches)**

**7.11.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.010	PK	31.8	18.6	0.1	50.5	-29.5	47.6	77.1
0.021	PK	44.6	18.8	0.1	63.5	-16.5	41.2	57.7
0.042	PK	40.2	18.9	0.2	59.3	-20.7	37.8	58.5
0.062	PK	36.2	18.9	0.2	55.3	-24.7	35.1	59.8
0.088	PK	32.3	18.9	0.2	51.4	-28.6	31.8	60.4
*0.146	PK	48.6	18.9	0.2	67.7	-12.3	28.7	41.0
0.210	PK	32.9	18.9	0.1	51.9	-28.1	21.2	49.3
0.389	PK	31.8	18.9	0.1	50.8	-29.2	15.8	45.0
0.628	PK	18.1	18.8	0.1	37.0	-43.0	-8.4	34.6

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.628	PK	10.6	18.9	0.3	29.8	-10.2	29.5	39.7
18.329	PK	9.5	19.6	0.7	29.8	-10.2	29.5	39.7

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

**7.11.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C

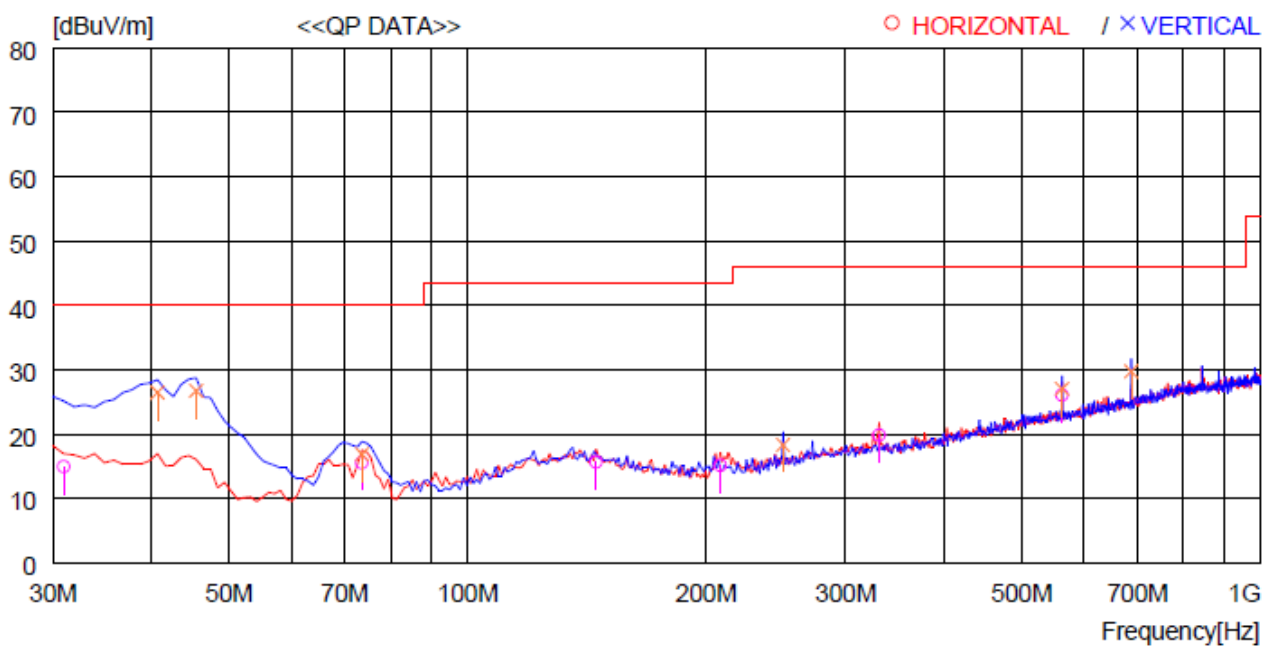
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency range : 30 MHz ~ 1 000 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.970	25.2	20.7	1.2	32.1	15.0	40.0	25.0	300	359
2	73.650	33.1	12.9	1.6	32.0	15.6	40.0	24.4	400	0
3	145.430	26.6	19.1	2.1	32.1	15.7	43.5	27.8	100	359
4	208.480	28.8	16.0	2.5	32.1	15.2	43.5	28.3	200	78
5	330.700	29.2	19.7	3.2	32.2	19.9	46.0	26.1	100	359
6	562.529	30.6	23.8	4.1	32.4	26.1	46.0	19.9	200	78
----- Vertical -----										
7	40.670	40.2	17.0	1.3	32.0	26.5	40.0	13.5	100	101
8	45.520	42.4	15.0	1.4	32.0	26.8	40.0	13.2	100	0
9	73.650	34.4	12.9	1.6	32.0	16.9	40.0	23.1	200	359
10	250.190	30.0	17.8	2.8	32.2	18.4	46.0	27.6	100	0
11	562.529	31.6	23.8	4.1	32.4	27.1	46.0	18.9	100	355
12	687.655	32.2	25.4	4.6	32.4	29.8	46.0	16.2	100	0

**7.12 Test data for Mode 9 (Frequency : 127.7 kHz / Accessories : Earphones)**

**7.12.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.021	PK	43.8	18.8	0.1	62.7	-17.3	41.2	58.5
0.042	PK	39.8	18.9	0.2	58.9	-21.1	35.1	56.2
0.062	PK	35.6	18.9	0.2	54.7	-25.3	31.8	57.1
0.088	PK	32.4	18.9	0.2	51.5	-28.5	28.7	57.2
*0.128	PK	48.5	18.9	0.2	67.6	-12.4	25.5	37.9
0.210	PK	33.1	18.9	0.1	52.1	-27.9	21.2	49.1
0.389	PK	31.5	18.9	0.1	50.5	-29.5	15.8	45.3
0.687	PK	21.9	18.8	0.1	40.8	-39.2	-9.1	30.1
0.896	PK	15.6	18.8	0.1	34.5	-45.5	-11.4	34.1

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.598	PK	11.3	18.9	0.3	30.5	-9.5	29.5	39.0
18.836	PK	8.8	19.6	0.8	29.2	-10.8	29.5	40.3

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]  
 = Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,  
 Below 30 MHz

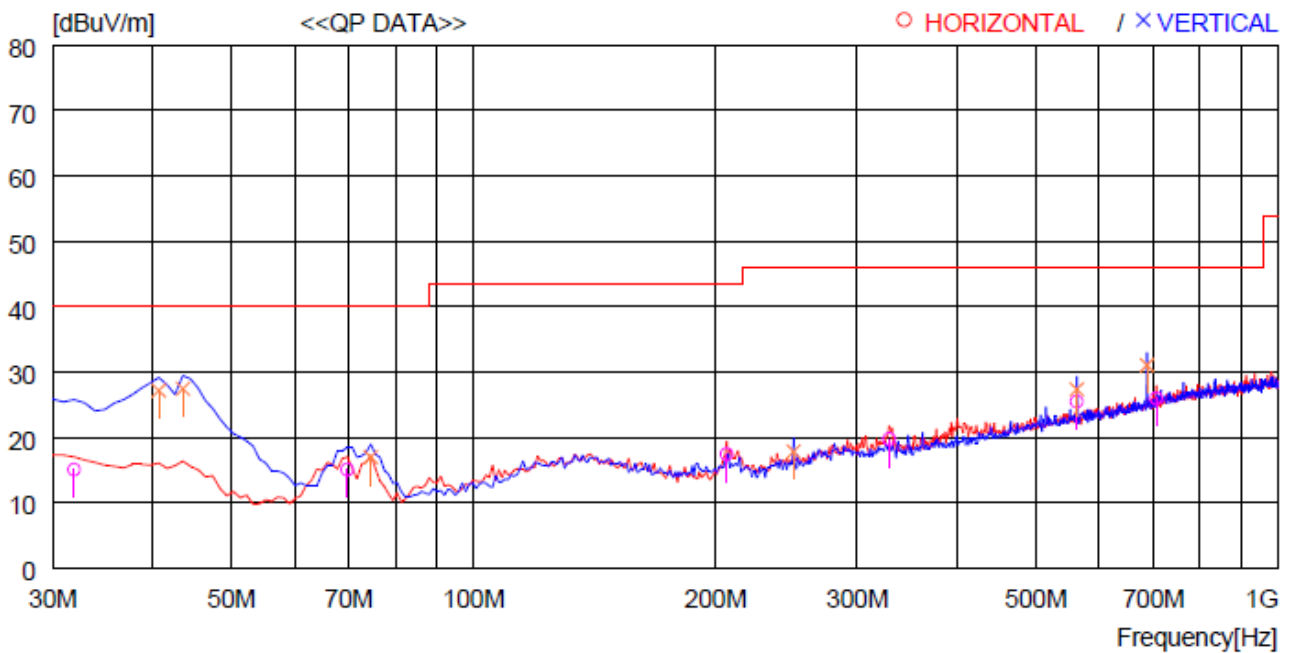
**7.12.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	31.940	25.7	20.3	1.2	32.1	15.1	40.0	24.9	400	295
2	69.770	32.6	12.9	1.6	32.0	15.1	40.0	24.9	400	0
3	206.540	31.2	15.9	2.5	32.1	17.5	43.5	26.0	100	359
4	328.760	29.3	19.6	3.1	32.2	19.8	46.0	26.2	100	99
5	562.529	30.0	23.8	4.1	32.4	25.5	46.0	20.5	200	276
6	706.085	28.0	25.7	4.7	32.4	26.0	46.0	20.0	400	126
----- Vertical -----										
7	40.670	40.9	17.0	1.3	32.0	27.2	40.0	12.8	100	0
8	43.580	42.4	15.8	1.3	32.0	27.5	40.0	12.5	100	41
9	74.620	34.5	12.9	1.6	32.0	17.0	40.0	23.0	200	298
10	250.190	29.5	17.8	2.8	32.2	17.9	46.0	28.1	200	127
11	562.529	31.9	23.8	4.1	32.4	27.4	46.0	18.6	100	359
12	687.655	33.5	25.4	4.6	32.4	31.1	46.0	14.9	100	0

**7.13 Test data for Mode 10 (Frequency : 127.7 kHz + 127.7 kHz / Accessories : Mobile + Earphones)**

**7.13.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.013	PK	33.6	18.6	0.1	52.3	-27.7	45.3	73.0
0.026	PK	50.5	18.8	0.1	69.4	-10.6	39.3	49.9
0.038	PK	53.3	18.9	0.2	72.4	-7.6	36.0	43.6
0.052	PK	44.6	18.9	0.2	63.7	-16.3	33.3	49.6
0.075	PK	45.8	18.9	0.2	64.9	-15.1	30.1	45.2
*0.128	PK	53.6	18.9	0.2	72.7	-7.3	25.5	32.8
0.180	PK	36.9	18.9	0.2	56.0	-24.0	22.5	46.5
0.359	PK	35.1	18.9	0.1	54.1	-25.9	16.5	42.4
0.777	PK	30.8	18.8	0.1	49.7	-30.3	-10.2	20.1

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.628	PK	14.3	18.9	0.3	33.5	-6.5	29.5	36.0
18.538	PK	17.0	19.6	0.8	37.4	-2.6	29.5	32.1

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz



**7.13.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C

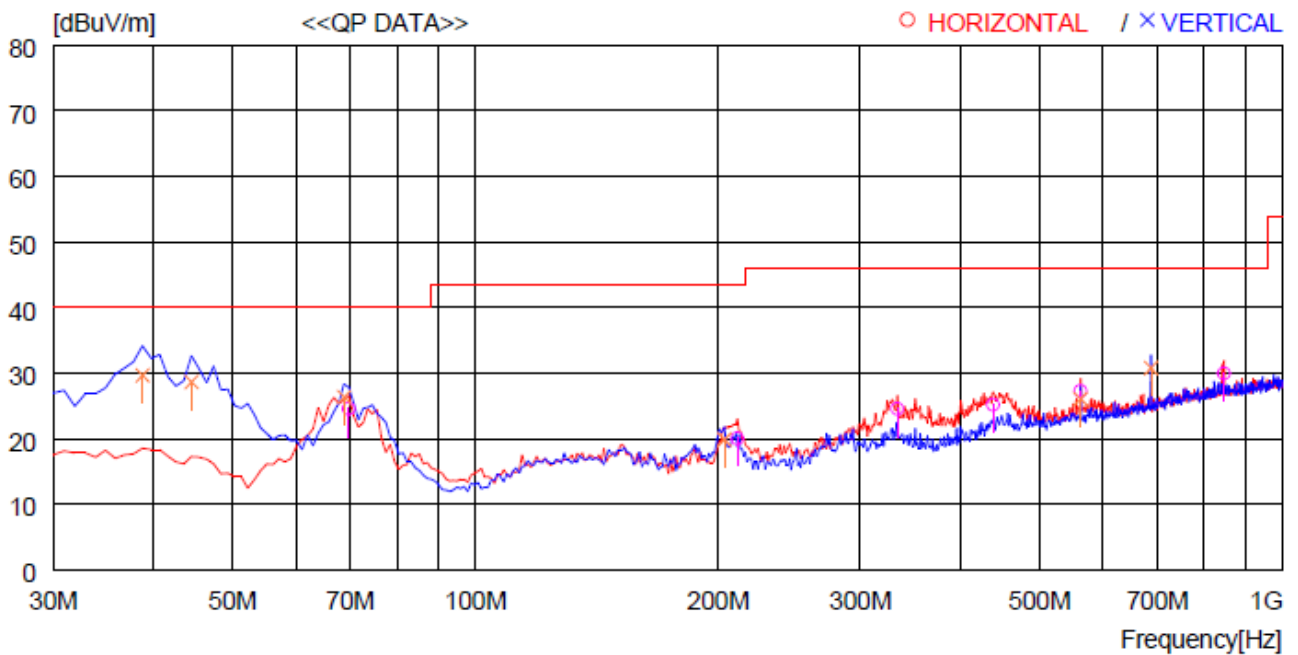
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency range : 30 MHz ~ 1 000 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	69.770	42.1	12.9	1.6	32.0	24.6	40.0	15.4	200	0
2	211.390	33.6	16.1	2.5	32.1	20.1	43.5	23.4	100	359
3	333.610	33.9	19.7	3.2	32.2	24.6	46.0	21.4	100	280
4	438.371	32.1	21.6	3.7	32.2	25.2	46.0	20.8	100	339
5	562.529	31.8	23.8	4.1	32.4	27.3	46.0	18.7	200	0
6	846.731	29.8	27.3	5.1	32.2	30.0	46.0	16.0	300	359
----- Vertical -----										
7	38.730	42.6	17.8	1.3	32.0	29.7	40.0	10.3	100	86
8	44.550	44.0	15.4	1.3	32.0	28.7	40.0	11.3	100	0
9	68.800	44.0	12.8	1.6	32.0	26.4	40.0	13.6	100	0
10	203.630	33.7	15.8	2.5	32.1	19.9	43.5	23.6	100	0
11	562.529	30.6	23.8	4.1	32.4	26.1	46.0	19.9	100	0
12	687.655	33.2	25.4	4.6	32.4	30.8	46.0	15.2	100	0

**7.14 Test data for Mode 11 (Frequency : 127.7 kHz + 146.0 kHz / Accessories : Mobile + Watches)**

**7.14.1 Spurious Radiated Emission Below 30 MHz**

Humidity Level : 50 % R.H.

Temperature: 22 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Frequency Range : 9 kHz ~ 30 MHz

Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
0.028	PK	52.8	18.9	0.1	71.8	-8.2	38.7	46.9
0.056	PK	48.2	18.9	0.2	67.3	-12.7	32.6	45.3
0.085	PK	41.0	18.9	0.2	60.1	-19.9	29.0	48.9
*0.128	PK	52.8	18.9	0.2	71.9	-8.1	25.5	33.6
*0.146	PK	28.1	18.9	0.2	47.2	-32.8	24.6	57.4
0.180	PK	37.4	18.9	0.2	56.5	-23.5	22.5	46.0
0.359	PK	35.3	18.9	0.1	54.3	-25.7	16.5	42.2
0.628	PK	23.5	18.8	0.1	42.4	-37.6	-8.4	29.2
0.866	PK	16.7	18.8	0.1	35.6	-44.4	-11.1	33.3

Frequency (MHz)	Detector	Reading (dBμV)	Ant. Factor (dB/m)	Cable Loss	Emission Level at 3m (dBμV/m)	Emission Level at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
2.598	PK	11.8	18.9	0.3	31.0	-9.0	29.5	38.5
18.538	PK	13.0	19.6	0.8	33.4	-6.6	29.5	36.1

-. "\*" Means Fundamental frequency

-. Emission Level at 3m [dB μ V/m] = Reading [dBμV] + Ant. Factor [dB/m] + Cable Loss [dB]

-. Margin [dB] = Emission Level at 300m [dBμV/m] – Limit at 300m [dBμV/m]

= Emission Level at 300m [dBμV/m] – Limit at 30m [dBμV/m]

-. Emission Level at 300m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (300/3), 80 dB for up to 0.49 MHz

-. Emission Level at 30m [dBμV/m] = Emission Level at 3m [dBμV/m] - 40log (30/3), 40 dB for above 0.49 MHz,

Below 30 MHz

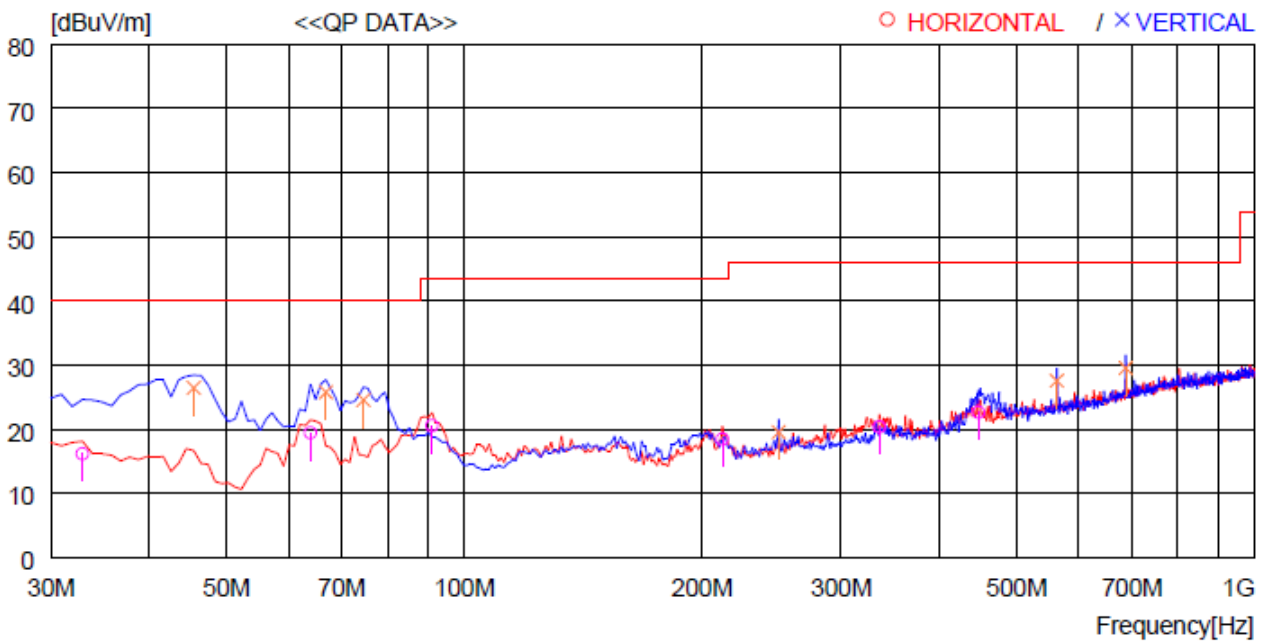
**7.14.2 Spurious Radiated Emission below 1 GHz**

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 50 % R.H. Temperature: 22 °C  
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209  
 Frequency range : 30 MHz ~ 1 000 MHz  
 Result : PASSED

EUT : WIRELESS CHARGER DUO

Operating Condition : Transmitting Mode & Charging Mode



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	32.910	27.2	19.9	1.2	32.1	16.2	40.0	23.8	400	216
2	63.950	37.6	12.4	1.5	32.0	19.5	40.0	20.5	400	225
3	91.110	37.1	13.7	1.8	32.0	20.6	43.5	22.9	400	32
4	212.360	32.0	16.1	2.5	32.1	18.5	43.5	25.0	100	79
5	335.550	29.7	19.7	3.2	32.2	20.4	46.0	25.6	100	163
6	448.071	29.3	21.9	3.7	32.2	22.7	46.0	23.3	100	144
----- Vertical -----										
7	45.520	42.1	15.0	1.4	32.0	26.5	40.0	13.5	100	50
8	66.860	43.6	12.6	1.6	32.0	25.8	40.0	14.2	100	115
9	74.620	42.1	12.9	1.6	32.0	24.6	40.0	15.4	100	353
10	250.190	31.2	17.8	2.8	32.2	19.6	46.0	26.4	100	138
11	562.529	32.1	23.8	4.1	32.4	27.6	46.0	18.4	100	359
12	687.655	32.0	25.4	4.6	32.4	29.6	46.0	16.4	100	359

## 8. CONDUCTED EMISSION TEST

### 8.1 Operating environment

Temperature : 22 °C  
Relative humidity : 50 % R.H

### 8.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50  $\Omega$  / 50  $\mu$ H + 5  $\Omega$  Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

### 8.3 Test equipment used

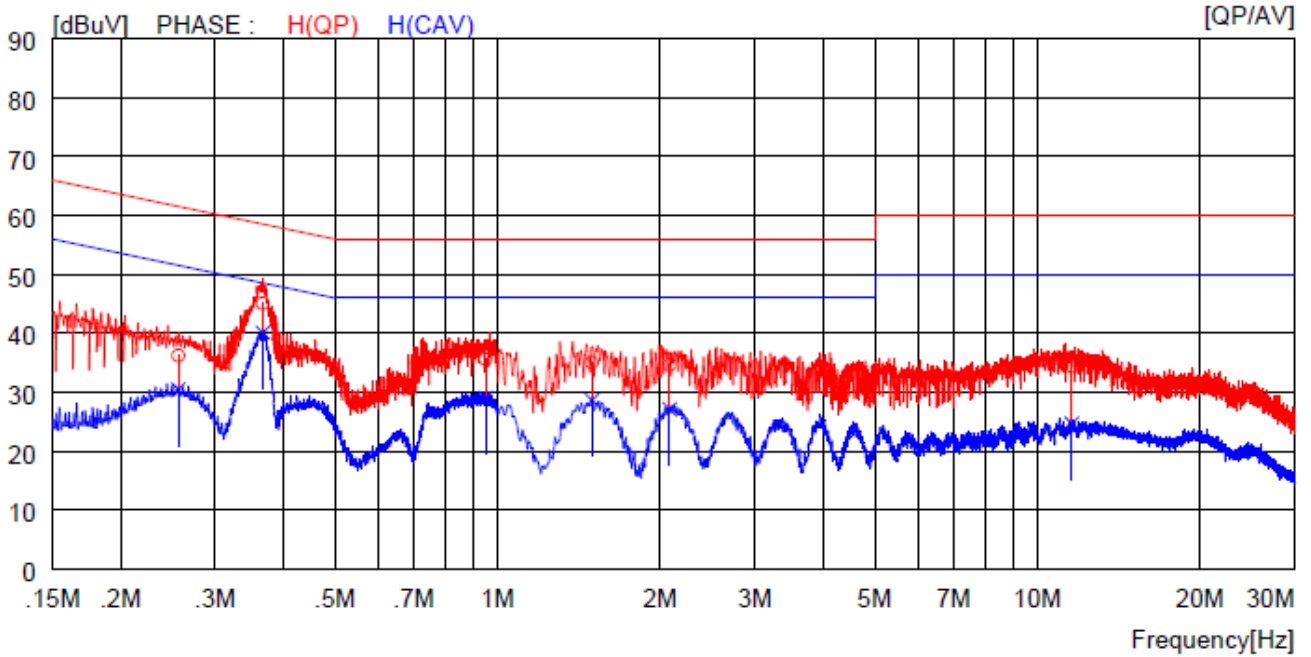
All test equipment used is calibrated on a regular basis.

### 8.4 Test date

November 16, 2021

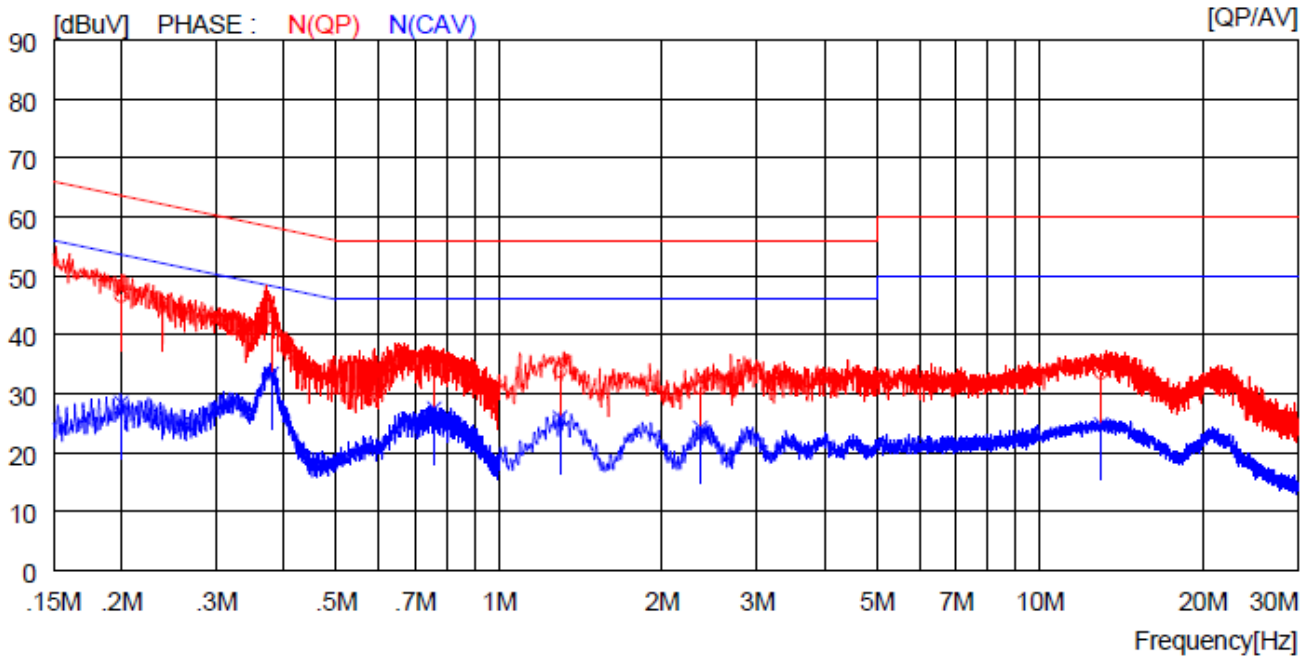
**8.5 Test data for Mode 1 (Frequency : 127.7 kHz / Accessories : Earphones)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.25600	26.2	----	10.0	36.2	----	61.6	----	25.4	----	H (QP)
2	0.36700	35.1	----	10.0	45.1	----	58.6	----	13.5	----	H (QP)
3	0.95000	25.6	----	10.0	35.6	----	56.0	----	20.4	----	H (QP)
4	1.49600	24.9	----	10.1	35.0	----	56.0	----	21.0	----	H (QP)
5	2.08400	24.5	----	10.1	34.6	----	56.0	----	21.4	----	H (QP)
6	11.59000	24.2	----	10.2	34.4	----	60.0	----	25.6	----	H (QP)
7	0.25600	----	20.4	10.0	----	30.4	----	51.6	----	21.2	H (CAV)
8	0.36700	----	30.1	10.0	----	40.1	----	48.6	----	8.5	H (CAV)
9	0.95000	----	19.0	10.0	----	29.0	----	46.0	----	17.0	H (CAV)
10	1.49600	----	18.5	10.1	----	28.6	----	46.0	----	17.4	H (CAV)
11	2.08400	----	17.0	10.1	----	27.1	----	46.0	----	18.9	H (CAV)
12	11.59000	----	14.4	10.2	----	24.6	----	50.0	----	25.4	H (CAV)

- Test Line : NEUTRAL LINE



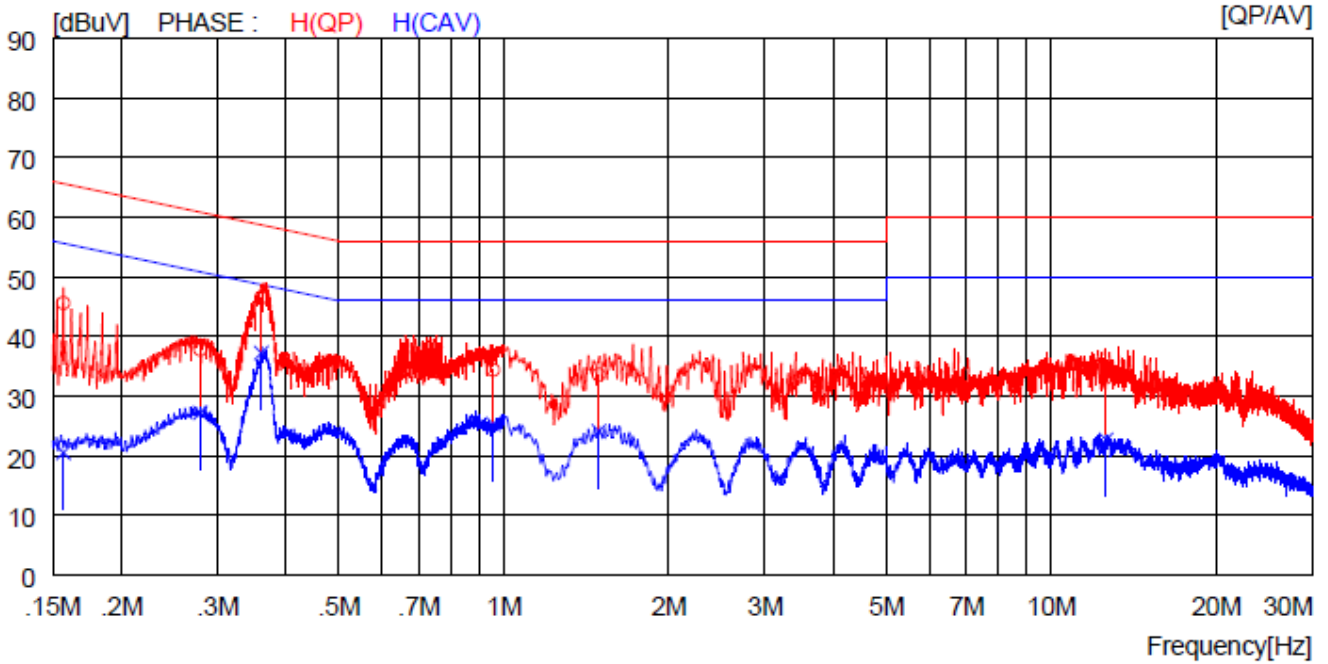
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.20000	36.6	----	10.0	46.6	----	63.6	----	17.0	----	N (QP)
2	0.38000	33.0	----	10.0	43.0	----	58.3	----	15.3	----	N (QP)
3	0.75900	25.2	----	10.0	35.2	----	56.0	----	20.8	----	N (QP)
4	1.29600	23.8	----	10.1	33.9	----	56.0	----	22.1	----	N (QP)
5	2.35600	21.0	----	10.1	31.1	----	56.0	----	24.9	----	N (QP)
6	12.98000	23.3	----	10.3	33.6	----	60.0	----	26.4	----	N (QP)
7	0.20000	----	18.5	10.0	----	28.5	----	53.6	----	25.1	N (CAV)
8	0.38000	----	23.4	10.0	----	33.4	----	48.3	----	14.9	N (CAV)
9	0.75900	----	17.5	10.0	----	27.5	----	46.0	----	18.5	N (CAV)
10	1.29600	----	15.8	10.1	----	25.9	----	46.0	----	20.1	N (CAV)
11	2.35600	----	14.1	10.1	----	24.2	----	46.0	----	21.8	N (CAV)
12	12.98000	----	14.5	10.3	----	24.8	----	50.0	----	25.2	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

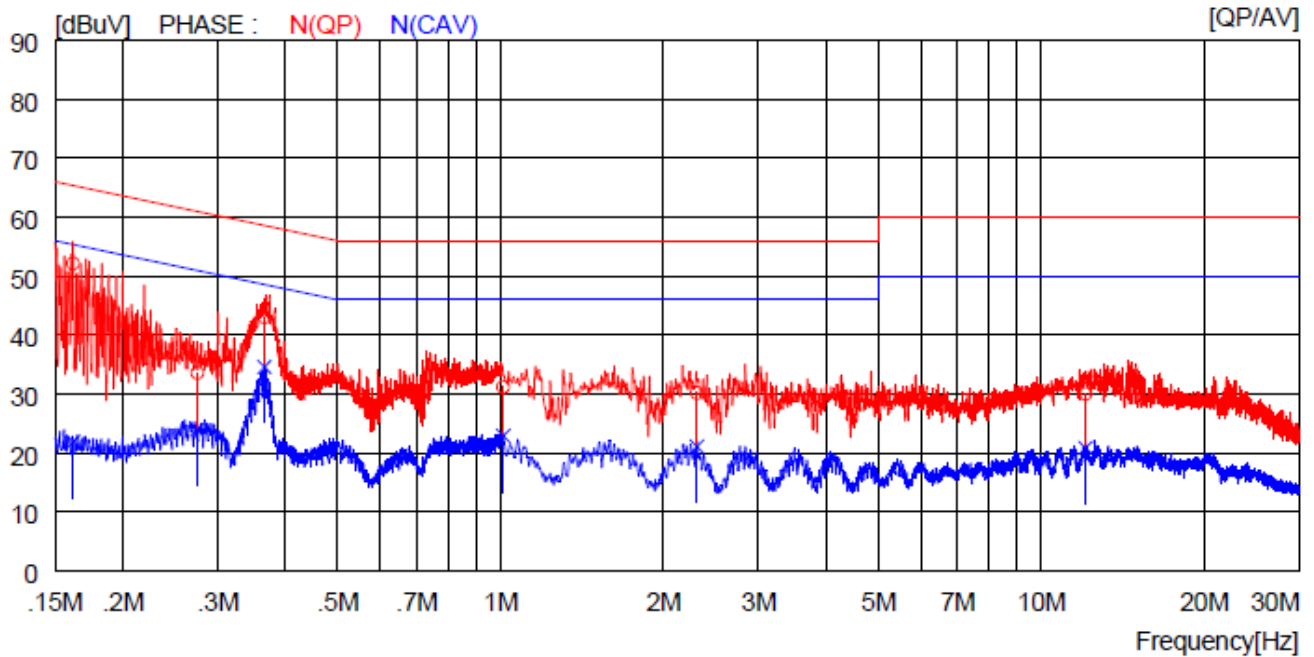
8.6 Test data for Mode 2 (Frequency : 146.0 kHz / Accessories : Watches)

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15700	35.6	----	10.0	45.6	----	65.6	----	20.0	----	H(QP)
2	0.27900	27.8	----	10.0	37.8	----	60.8	----	23.0	----	H(QP)
3	0.36100	36.5	----	10.0	46.5	----	58.7	----	12.2	----	H(QP)
4	0.95700	24.4	----	10.0	34.4	----	56.0	----	21.6	----	H(QP)
5	1.49200	23.5	----	10.1	33.6	----	56.0	----	22.4	----	H(QP)
6	12.59000	22.8	----	10.3	33.1	----	60.0	----	26.9	----	H(QP)
7	0.15700	----	10.5	10.0	----	20.5	----	55.6	----	35.1	H(CAV)
8	0.27900	----	17.2	10.0	----	27.2	----	50.8	----	23.6	H(CAV)
9	0.36100	----	27.2	10.0	----	37.2	----	48.7	----	11.5	H(CAV)
10	0.95700	----	15.3	10.0	----	25.3	----	46.0	----	20.7	H(CAV)
11	1.49200	----	14.0	10.1	----	24.1	----	46.0	----	21.9	H(CAV)
12	12.59000	----	12.4	10.3	----	22.7	----	50.0	----	27.3	H(CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16200	42.1	----	10.0	52.1	----	65.4	----	13.3	----	N(QP)
2	0.27500	23.6	----	10.0	33.6	----	61.0	----	27.4	----	N(QP)
3	0.36600	33.0	----	10.0	43.0	----	58.6	----	15.6	----	N(QP)
4	1.01200	21.1	----	10.1	31.2	----	56.0	----	24.8	----	N(QP)
5	2.30800	20.1	----	10.1	30.2	----	56.0	----	25.8	----	N(QP)
6	12.08000	19.7	----	10.3	30.0	----	60.0	----	30.0	----	N(QP)
7	0.16200	----	11.9	10.0	----	21.9	----	55.4	----	33.5	N(CAV)
8	0.27500	----	14.0	10.0	----	24.0	----	51.0	----	27.0	N(CAV)
9	0.36600	----	24.6	10.0	----	34.6	----	48.6	----	14.0	N(CAV)
10	1.01200	----	12.8	10.1	----	22.9	----	46.0	----	23.1	N(CAV)
11	2.30800	----	11.0	10.1	----	21.1	----	46.0	----	24.9	N(CAV)
12	12.08000	----	10.6	10.3	----	20.9	----	50.0	----	29.1	N(CAV)

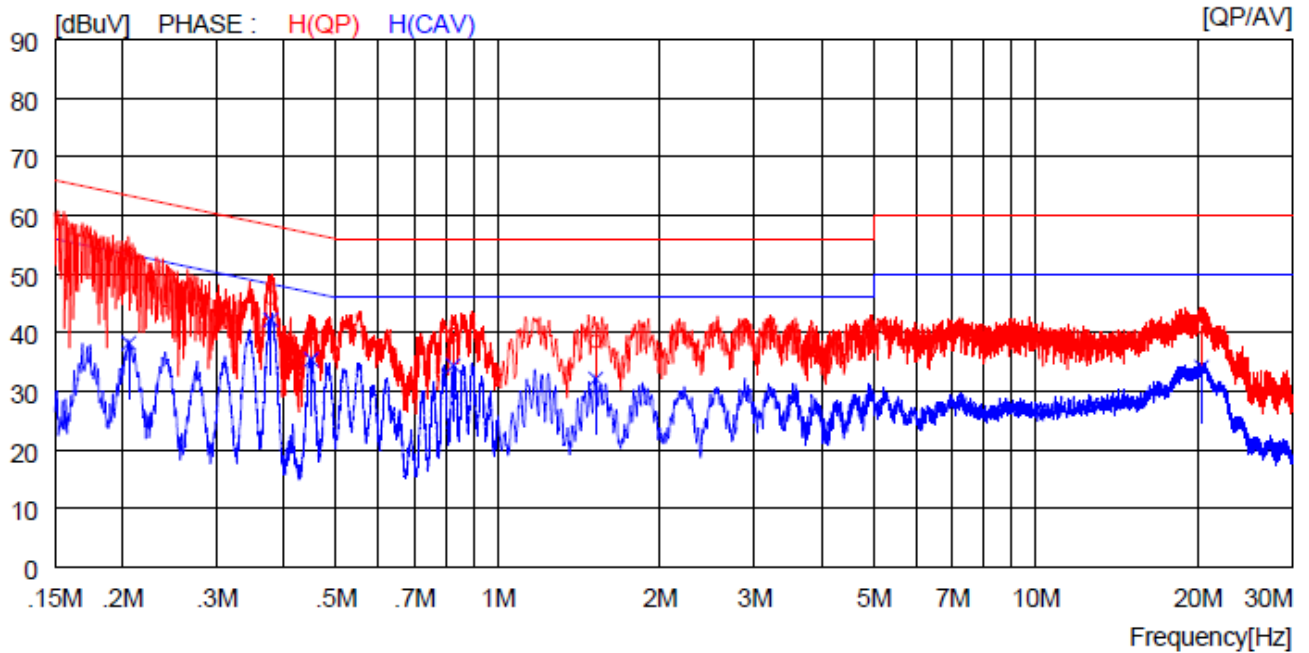
Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.



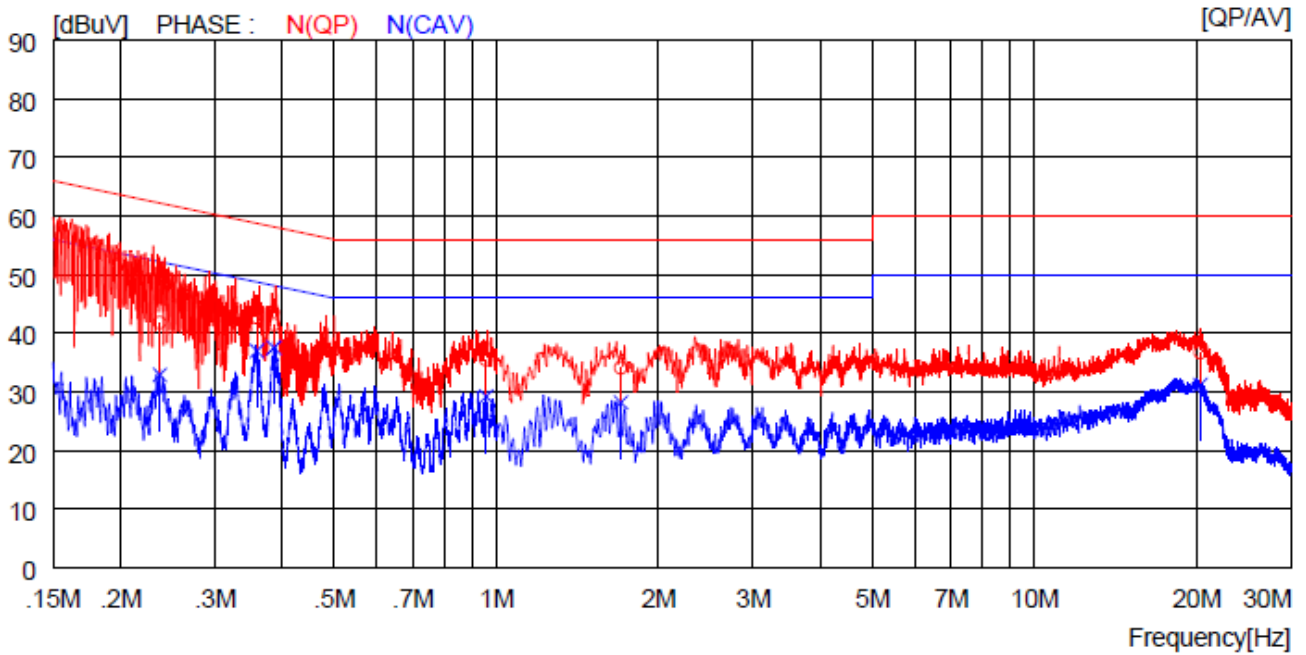
**8.7 Test data for Mode 3 (Frequency : 127.7 kHz / Accessories : Mobile 1)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.20600	43.3	----	10.0	53.3	----	63.4	----	10.1	----	H (QP)
2	0.37800	35.9	----	10.0	45.9	----	58.3	----	12.4	----	H (QP)
3	0.45000	30.0	----	10.0	40.0	----	56.9	----	16.9	----	H (QP)
4	0.82600	29.7	----	10.0	39.7	----	56.0	----	16.3	----	H (QP)
5	1.52000	28.4	----	10.1	38.5	----	56.0	----	17.5	----	H (QP)
6	20.35000	30.5	----	10.4	40.9	----	60.0	----	19.1	----	H (QP)
7	0.20600	----	28.2	10.0	----	38.2	----	53.4	----	15.2	H (CAV)
8	0.37800	----	32.2	10.0	----	42.2	----	48.3	----	6.1	H (CAV)
9	0.45000	----	25.4	10.0	----	35.4	----	46.9	----	11.5	H (CAV)
10	0.82600	----	24.4	10.0	----	34.4	----	46.0	----	11.6	H (CAV)
11	1.52000	----	22.0	10.1	----	32.1	----	46.0	----	13.9	H (CAV)
12	20.35000	----	23.7	10.4	----	34.1	----	50.0	----	15.9	H (CAV)

- Test Line : NEUTRAL LINE



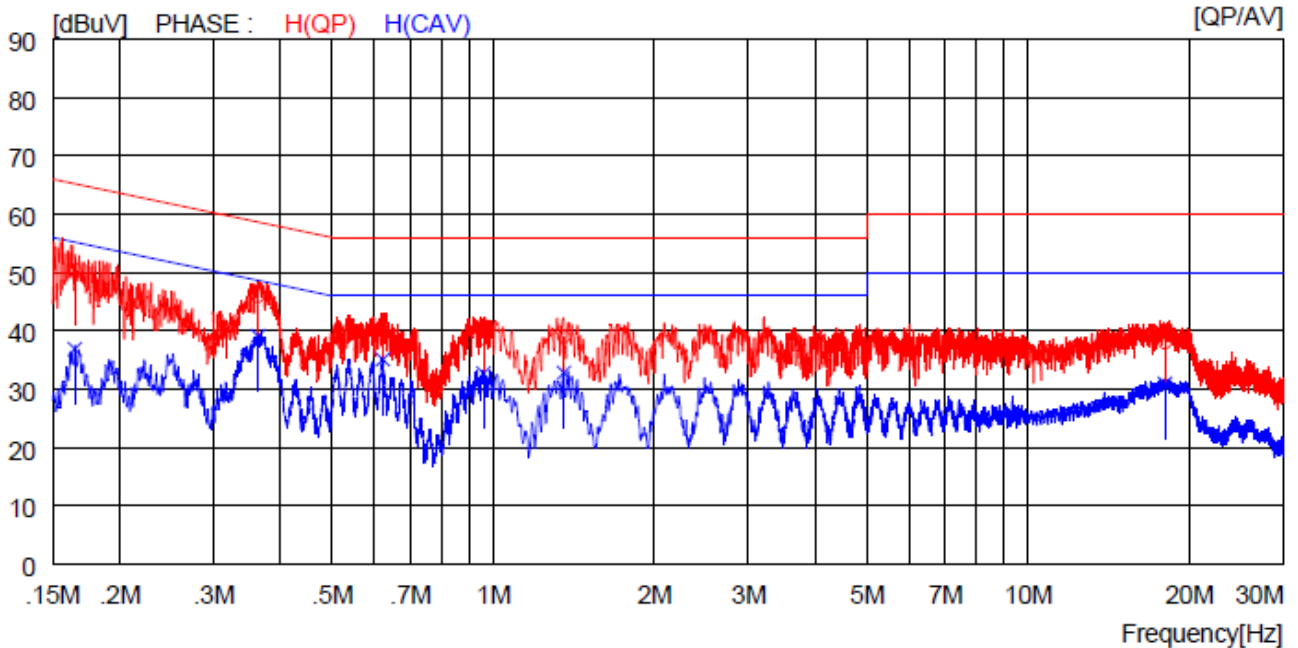
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.23700	31.8	----	10.0	41.8	----	62.2	----	20.4	----	N(QP)
2	0.35900	32.7	----	10.0	42.7	----	58.8	----	16.1	----	N(QP)
3	0.38600	31.5	----	10.0	41.5	----	58.1	----	16.6	----	N(QP)
4	0.95700	25.5	----	10.0	35.5	----	56.0	----	20.5	----	N(QP)
5	1.70400	24.0	----	10.1	34.1	----	56.0	----	21.9	----	N(QP)
6	20.35000	26.3	----	10.4	36.7	----	60.0	----	23.3	----	N(QP)
7	0.23700	----	22.9	10.0	----	32.9	----	52.2	----	19.3	N(CAV)
8	0.35900	----	27.0	10.0	----	37.0	----	48.8	----	11.8	N(CAV)
9	0.38600	----	27.5	10.0	----	37.5	----	48.1	----	10.6	N(CAV)
10	0.95700	----	19.2	10.0	----	29.2	----	46.0	----	16.8	N(CAV)
11	1.70400	----	18.1	10.1	----	28.2	----	46.0	----	17.8	N(CAV)
12	20.35000	----	20.8	10.4	----	31.2	----	50.0	----	18.8	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

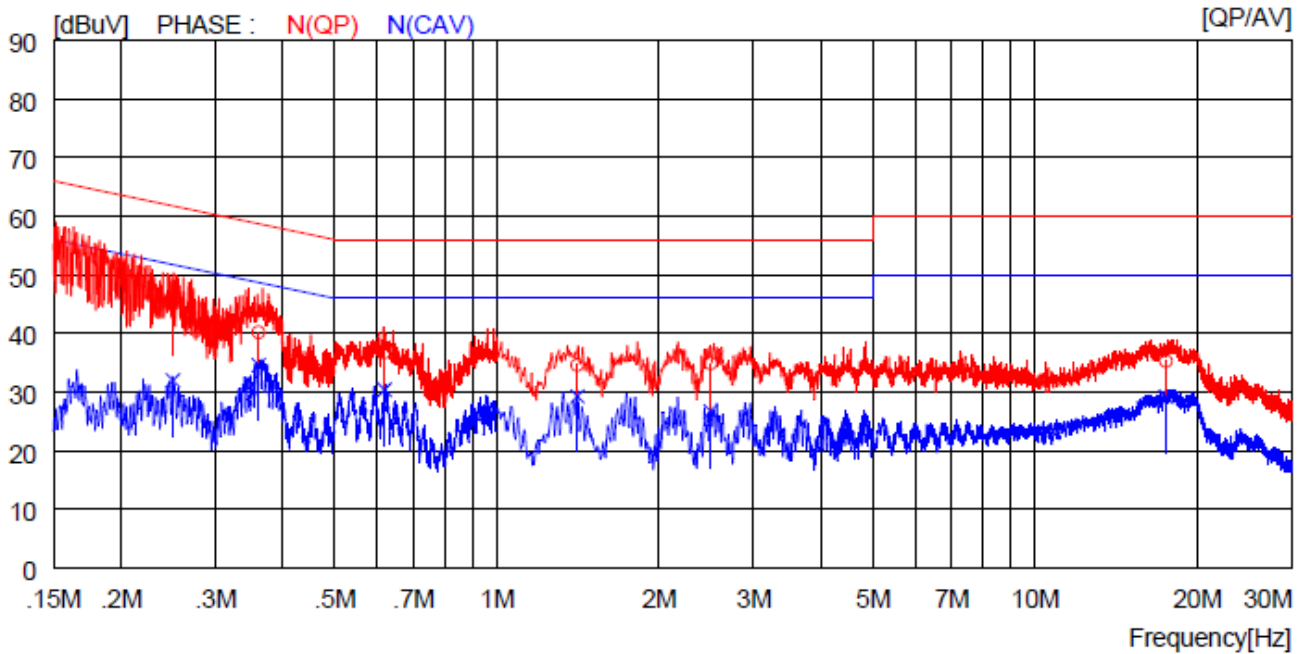
**8.8 Test data for Mode 4 (Frequency : 127.7 kHz / Accessories : Mobile 1)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16500	40.5	----	10.0	50.5	----	65.2	----	14.7	----	H(QP)
2	0.36300	35.9	----	10.0	45.9	----	58.7	----	12.8	----	H(QP)
3	0.62200	30.0	----	10.0	40.0	----	56.0	----	16.0	----	H(QP)
4	0.95900	28.7	----	10.0	38.7	----	56.0	----	17.3	----	H(QP)
5	1.35600	28.9	----	10.1	39.0	----	56.0	----	17.0	----	H(QP)
6	18.02000	27.7	----	10.3	38.0	----	60.0	----	22.0	----	H(QP)
7	0.16500	----	26.9	10.0	----	36.9	----	55.2	----	18.3	H(CAV)
8	0.36300	----	29.1	10.0	----	39.1	----	48.7	----	9.6	H(CAV)
9	0.62200	----	25.1	10.0	----	35.1	----	46.0	----	10.9	H(CAV)
10	0.95900	----	22.7	10.0	----	32.7	----	46.0	----	13.3	H(CAV)
11	1.35600	----	22.7	10.1	----	32.8	----	46.0	----	13.2	H(CAV)
12	18.02000	----	20.6	10.3	----	30.9	----	50.0	----	19.1	H(CAV)

-. Tested Line : NEUTRAL LINE



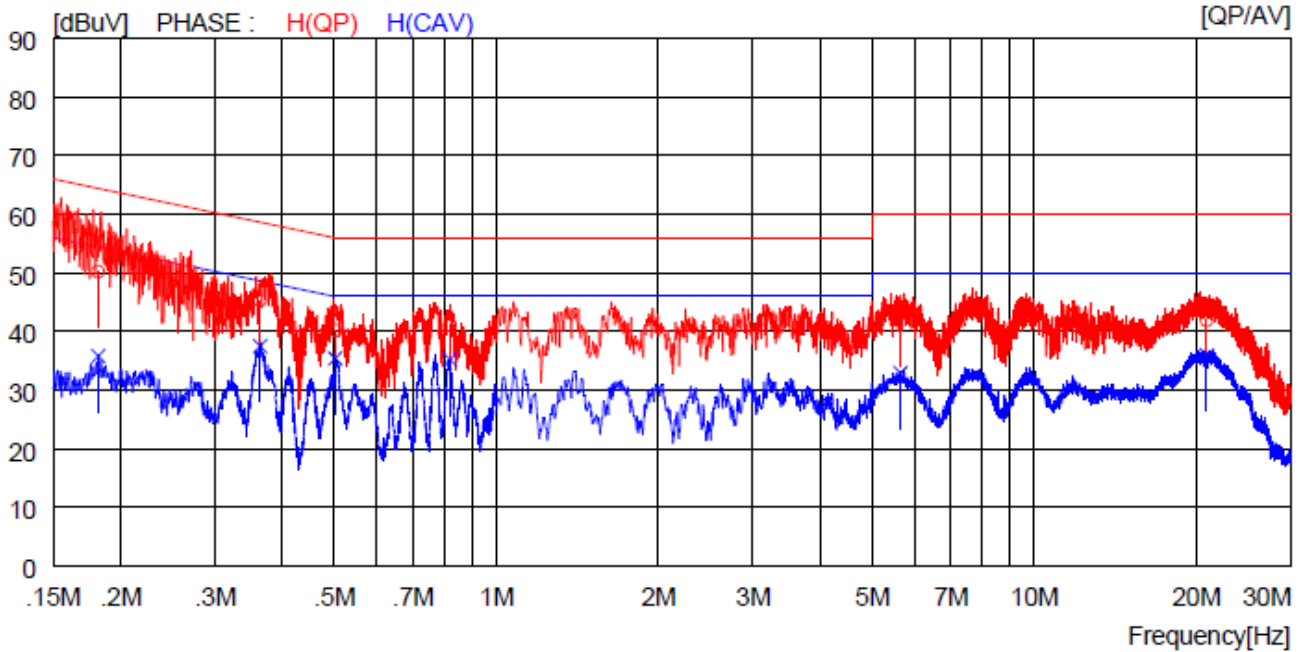
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.25000	35.7	----	10.0	45.7	----	61.8	----	16.1	----	N(QP)
2	0.36100	30.2	----	10.0	40.2	----	58.7	----	18.5	----	N(QP)
3	0.61800	26.8	----	10.0	36.8	----	56.0	----	19.2	----	N(QP)
4	1.41200	24.5	----	10.1	34.6	----	56.0	----	21.4	----	N(QP)
5	2.49600	24.8	----	10.1	34.9	----	56.0	----	21.1	----	N(QP)
6	17.51000	25.0	----	10.3	35.3	----	60.0	----	24.7	----	N(QP)
7	0.25000	----	22.0	10.0	----	32.0	----	51.8	----	19.8	N(CAV)
8	0.36100	----	24.6	10.0	----	34.6	----	48.7	----	14.1	N(CAV)
9	0.61800	----	20.4	10.0	----	30.4	----	46.0	----	15.6	N(CAV)
10	1.41200	----	19.2	10.1	----	29.3	----	46.0	----	16.7	N(CAV)
11	2.49600	----	16.6	10.1	----	26.7	----	46.0	----	19.3	N(CAV)
12	17.51000	----	18.9	10.3	----	29.2	----	50.0	----	20.8	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

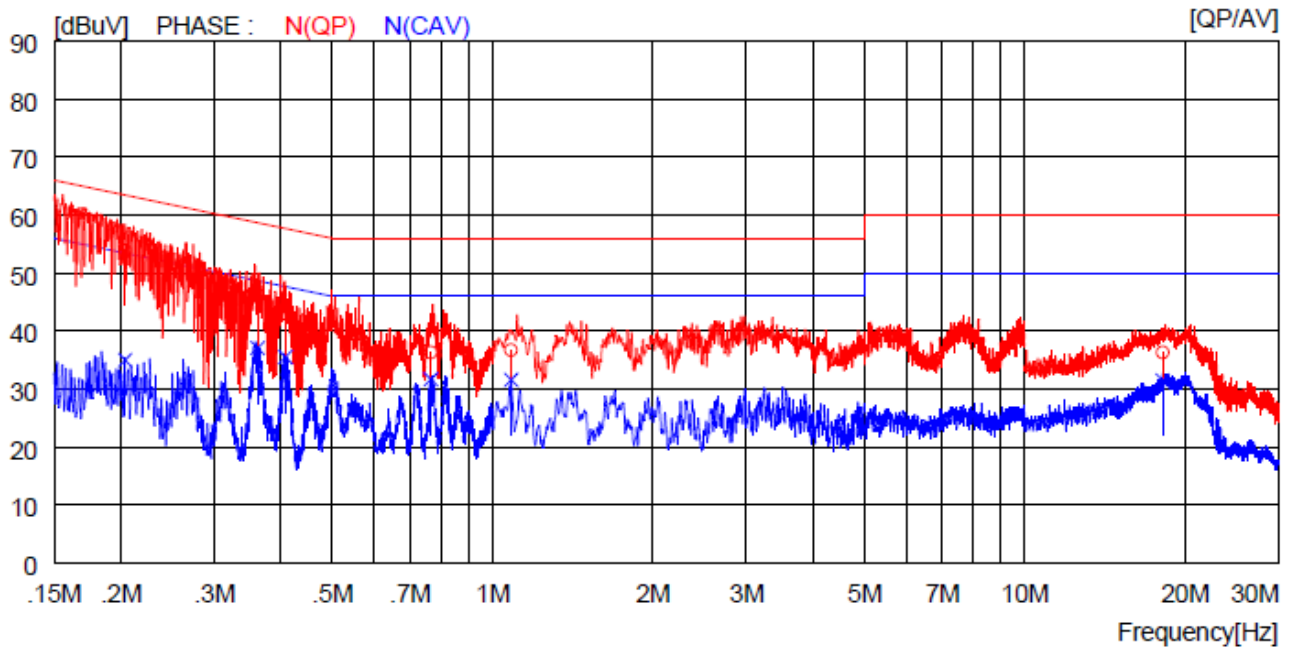
**8.9 Test data for Mode 5 (Frequency : 127.7 kHz / Accessories : Mobile 1)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18200	40.2	----	10.0	50.2	----	64.4	----	14.2	----	H(QP)
2	0.36400	35.3	----	10.0	45.3	----	58.6	----	13.3	----	H(QP)
3	0.50200	30.2	----	10.0	40.2	----	56.0	----	15.8	----	H(QP)
4	0.82100	31.1	----	10.0	41.1	----	56.0	----	14.9	----	H(QP)
5	5.64500	33.3	----	10.2	43.5	----	60.0	----	16.5	----	H(QP)
6	20.94000	31.5	----	10.4	41.9	----	60.0	----	18.1	----	H(QP)
7	0.18200	----	25.8	10.0	----	35.8	----	54.4	----	18.6	H(CAV)
8	0.36400	----	27.5	10.0	----	37.5	----	48.6	----	11.1	H(CAV)
9	0.50200	----	25.4	10.0	----	35.4	----	46.0	----	10.6	H(CAV)
10	0.82100	----	25.2	10.0	----	35.2	----	46.0	----	10.8	H(CAV)
11	5.64500	----	22.7	10.2	----	32.9	----	50.0	----	17.1	H(CAV)
12	20.94000	----	25.5	10.4	----	35.9	----	50.0	----	14.1	H(CAV)

- Tested Line : NEUTRAL LINE



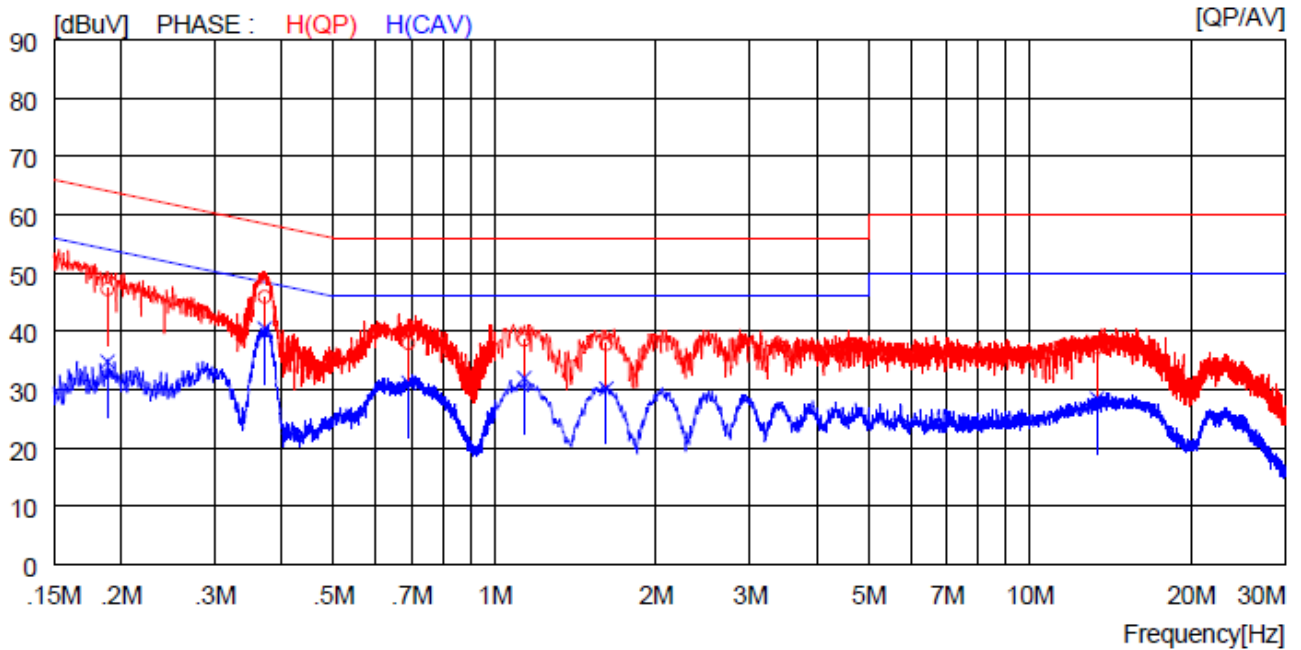
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.20400	43.9	----	10.0	53.9	----	63.4	----	9.5	----	N(QP)
2	0.36200	36.8	----	10.0	46.8	----	58.7	----	11.9	----	N(QP)
3	0.40800	33.0	----	10.0	43.0	----	57.7	----	14.7	----	N(QP)
4	0.76600	26.3	----	10.0	36.3	----	56.0	----	19.7	----	N(QP)
5	1.08400	26.6	----	10.1	36.7	----	56.0	----	19.3	----	N(QP)
6	18.16000	26.0	----	10.3	36.3	----	60.0	----	23.7	----	N(QP)
7	0.20400	----	25.0	10.0	----	35.0	----	53.4	----	18.4	N(CAV)
8	0.36200	----	27.1	10.0	----	37.1	----	48.7	----	11.6	N(CAV)
9	0.40800	----	25.5	10.0	----	35.5	----	47.7	----	12.2	N(CAV)
10	0.76600	----	21.7	10.0	----	31.7	----	46.0	----	14.3	N(CAV)
11	1.08400	----	21.5	10.1	----	31.6	----	46.0	----	14.4	N(CAV)
12	18.16000	----	21.2	10.3	----	31.5	----	50.0	----	18.5	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

**8.10 Test data for Mode 6 (Frequency : 120.5 kHz / Accessories : Mobile 2)**

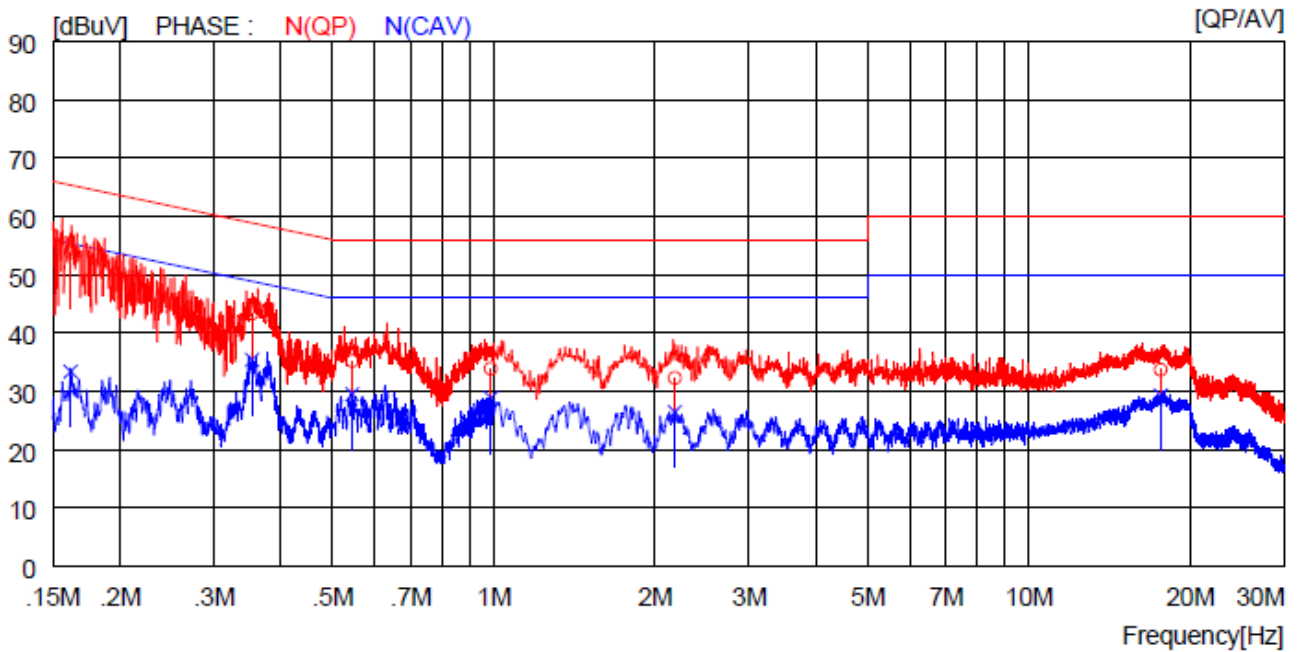
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18900	37.2	----	10.0	47.2	----	64.1	----	16.9	----	H(QP)
2	0.37200	35.9	----	10.0	45.9	----	58.5	----	12.6	----	H(QP)
3	0.69000	28.0	----	10.0	38.0	----	56.0	----	18.0	----	H(QP)
4	1.13600	28.4	----	10.1	38.5	----	56.0	----	17.5	----	H(QP)
5	1.61600	27.7	----	10.1	37.8	----	56.0	----	18.2	----	H(QP)
6	13.35000	26.9	----	10.3	37.2	----	60.0	----	22.8	----	H(QP)
7	0.18900	----	24.8	10.0	----	34.8	----	54.1	----	19.3	H(CAV)
8	0.37200	----	30.5	10.0	----	40.5	----	48.5	----	8.0	H(CAV)
9	0.69000	----	21.2	10.0	----	31.2	----	46.0	----	14.8	H(CAV)
10	1.13600	----	21.9	10.1	----	32.0	----	46.0	----	14.0	H(CAV)
11	1.61600	----	20.1	10.1	----	30.2	----	46.0	----	15.8	H(CAV)
12	13.35000	----	18.2	10.3	----	28.5	----	50.0	----	21.5	H(CAV)



- Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16200	43.8	----	10.0	53.8	----	65.4	----	11.6	----	N(QP)
2	0.35400	33.3	----	10.0	43.3	----	58.9	----	15.6	----	N(QP)
3	0.54400	25.2	----	10.0	35.2	----	56.0	----	20.8	----	N(QP)
4	0.98800	23.9	----	10.0	33.9	----	56.0	----	22.1	----	N(QP)
5	2.18000	22.2	----	10.1	32.3	----	56.0	----	23.7	----	N(QP)
6	17.64000	23.4	----	10.3	33.7	----	60.0	----	26.3	----	N(QP)
7	0.16200	----	23.4	10.0	----	33.4	----	55.4	----	22.0	N(CAV)
8	0.35400	----	25.4	10.0	----	35.4	----	48.9	----	13.5	N(CAV)
9	0.54400	----	19.5	10.0	----	29.5	----	46.0	----	16.5	N(CAV)
10	0.98800	----	18.8	10.0	----	28.8	----	46.0	----	17.2	N(CAV)
11	2.18000	----	16.3	10.1	----	26.4	----	46.0	----	19.6	N(CAV)
12	17.64000	----	19.0	10.3	----	29.3	----	50.0	----	20.7	N(CAV)

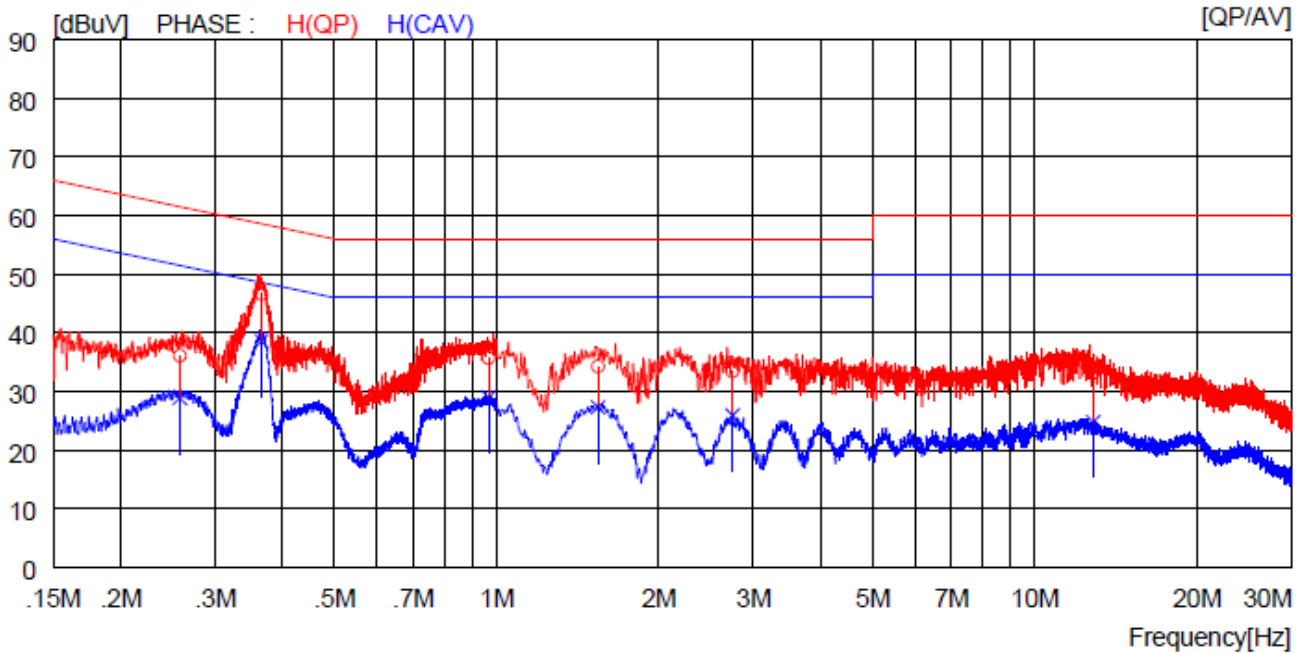
Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.



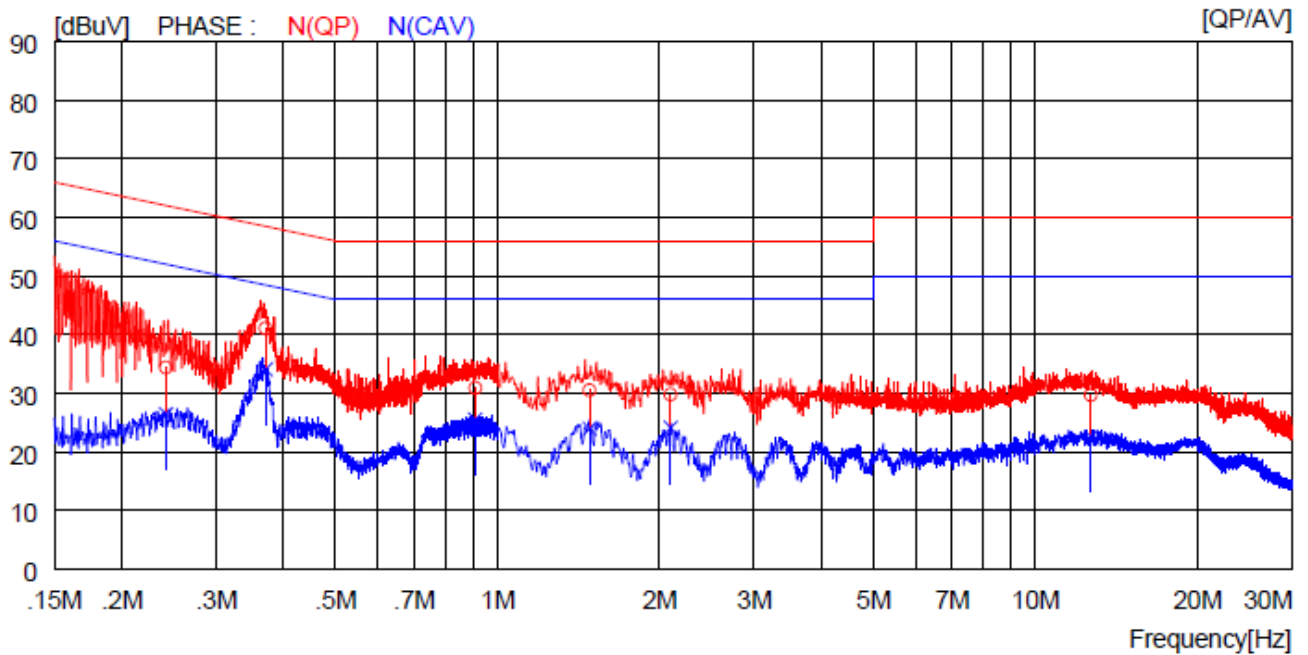
**8.11 Test data for Mode 7 (Frequency : 127.7 kHz / Accessories : Earphones)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.25800	26.1	----	10.0	36.1	----	61.5	----	25.4	----	H(QP)
2	0.36600	36.6	----	10.0	46.6	----	58.6	----	12.0	----	H(QP)
3	0.96700	25.7	----	10.0	35.7	----	56.0	----	20.3	----	H(QP)
4	1.54400	24.2	----	10.1	34.3	----	56.0	----	21.7	----	H(QP)
5	2.74400	23.3	----	10.1	33.4	----	56.0	----	22.6	----	H(QP)
6	12.85000	22.9	----	10.3	33.2	----	60.0	----	26.8	----	H(QP)
7	0.25800	----	18.9	10.0	----	28.9	----	51.5	----	22.6	H(CAV)
8	0.36600	----	28.6	10.0	----	38.6	----	48.6	----	10.0	H(CAV)
9	0.96700	----	19.0	10.0	----	29.0	----	46.0	----	17.0	H(CAV)
10	1.54400	----	17.2	10.1	----	27.3	----	46.0	----	18.7	H(CAV)
11	2.74400	----	15.8	10.1	----	25.9	----	46.0	----	20.1	H(CAV)
12	12.85000	----	14.5	10.3	----	24.8	----	50.0	----	25.2	H(CAV)

- Test Line : NEUTRAL LINE



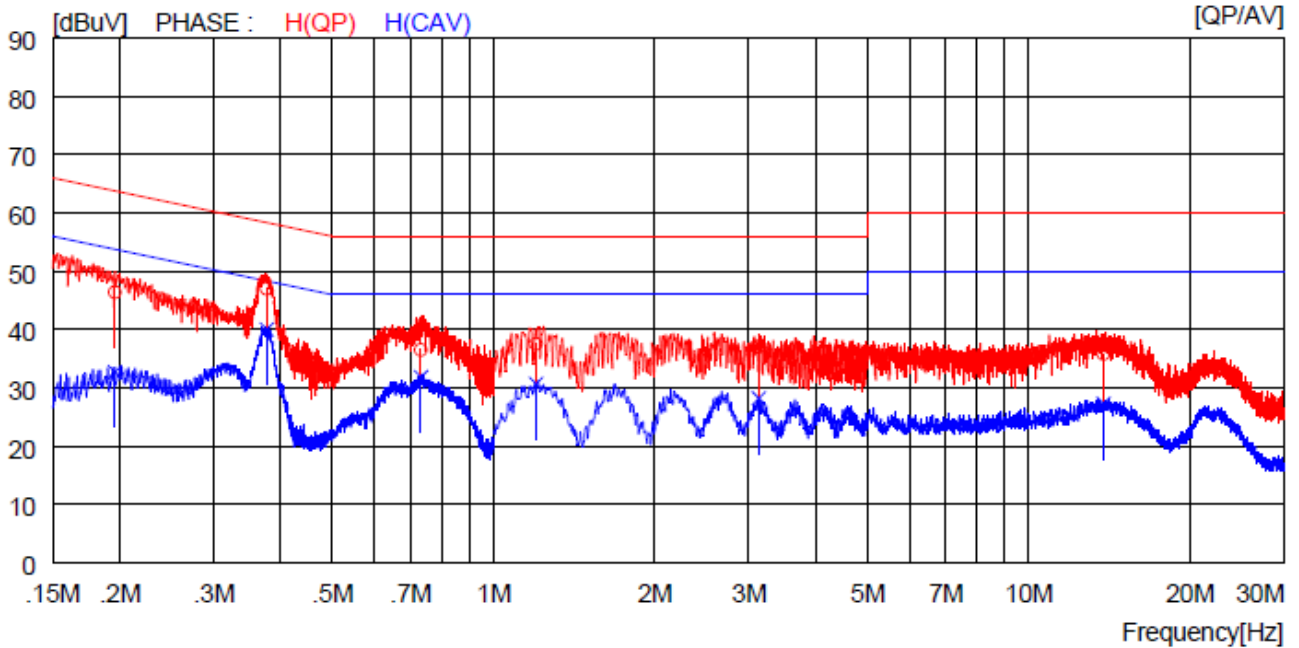
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.24200	24.4	----	10.0	34.4	----	62.0	----	27.6	----	N(QP)
2	0.37100	31.1	----	10.0	41.1	----	58.5	----	17.4	----	N(QP)
3	0.91000	20.9	----	10.0	30.9	----	56.0	----	25.1	----	N(QP)
4	1.48400	20.4	----	10.1	30.5	----	56.0	----	25.5	----	N(QP)
5	2.10000	19.7	----	10.1	29.8	----	56.0	----	26.2	----	N(QP)
6	12.69000	19.4	----	10.3	29.7	----	60.0	----	30.3	----	N(QP)
7	0.24200	----	16.4	10.0	----	26.4	----	52.0	----	25.6	N(CAV)
8	0.37100	----	24.1	10.0	----	34.1	----	48.5	----	14.4	N(CAV)
9	0.91000	----	15.5	10.0	----	25.5	----	46.0	----	20.5	N(CAV)
10	1.48400	----	13.9	10.1	----	24.0	----	46.0	----	22.0	N(CAV)
11	2.10000	----	14.0	10.1	----	24.1	----	46.0	----	21.9	N(CAV)
12	12.69000	----	12.3	10.3	----	22.6	----	50.0	----	27.4	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

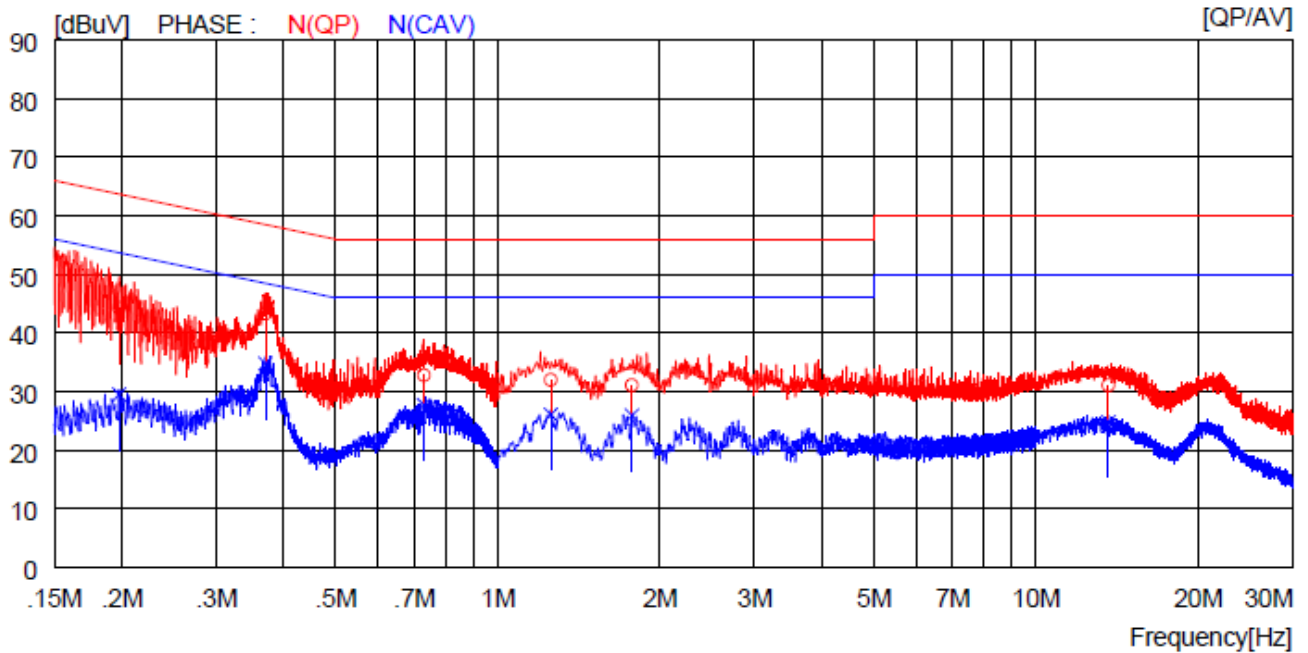
**8.12 Test data for Mode 8 (Frequency : 146.0 kHz / Accessories : Watches)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.19600	36.4	----	10.0	46.4	----	63.8	----	17.4	----	H (QP)
2	0.37700	37.0	----	10.0	47.0	----	58.3	----	11.3	----	H (QP)
3	0.73200	26.5	----	10.0	36.5	----	56.0	----	19.5	----	H (QP)
4	1.20000	27.4	----	10.1	37.5	----	56.0	----	18.5	----	H (QP)
5	3.13200	26.9	----	10.1	37.0	----	56.0	----	19.0	----	H (QP)
6	13.79000	25.5	----	10.3	35.8	----	60.0	----	24.2	----	H (QP)
7	0.19600	----	22.7	10.0	----	32.7	----	53.8	----	21.1	H (CAV)
8	0.37700	----	30.0	10.0	----	40.0	----	48.3	----	8.3	H (CAV)
9	0.73200	----	21.8	10.0	----	31.8	----	46.0	----	14.2	H (CAV)
10	1.20000	----	20.6	10.1	----	30.7	----	46.0	----	15.3	H (CAV)
11	3.13200	----	18.1	10.1	----	28.2	----	46.0	----	17.8	H (CAV)
12	13.79000	----	17.0	10.3	----	27.3	----	50.0	----	22.7	H (CAV)

-. Tested Line : NEUTRAL LINE



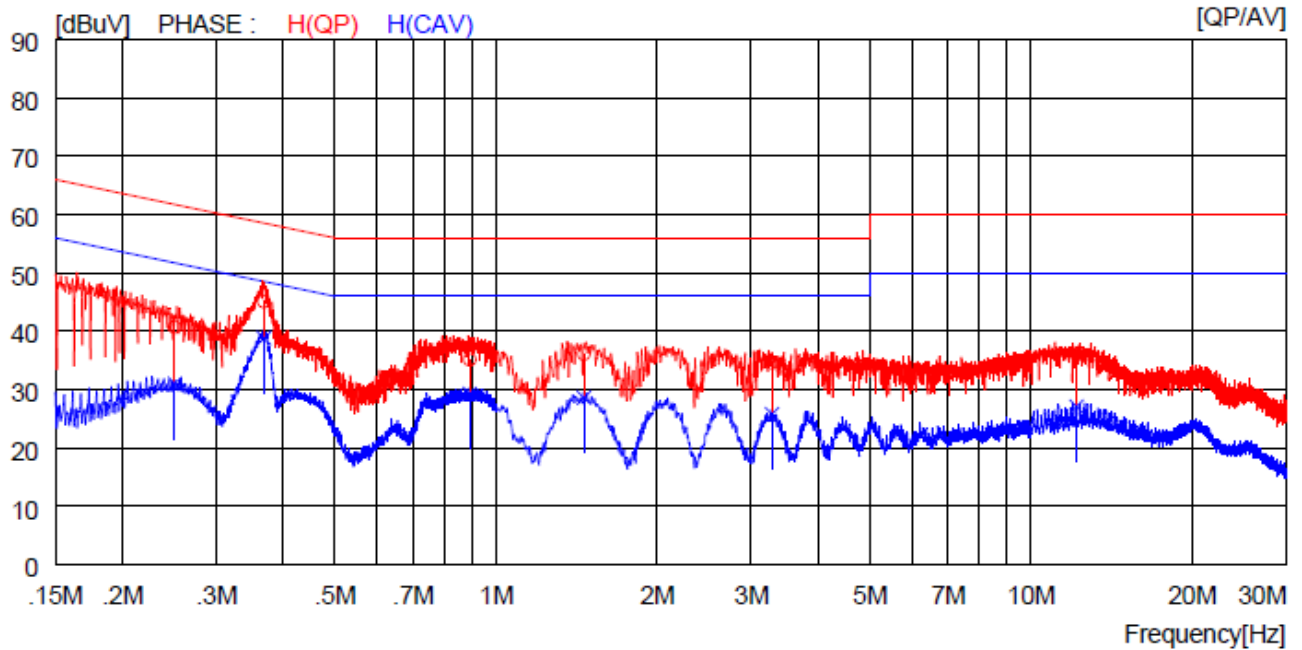
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.19800	34.2	----	10.0	44.2	----	63.7	----	19.5	----	N(QP)
2	0.37000	33.3	----	10.0	43.3	----	58.5	----	15.2	----	N(QP)
3	0.72900	22.8	----	10.0	32.8	----	56.0	----	23.2	----	N(QP)
4	1.25600	21.9	----	10.1	32.0	----	56.0	----	24.0	----	N(QP)
5	1.77600	21.0	----	10.1	31.1	----	56.0	----	24.9	----	N(QP)
6	13.64000	20.8	----	10.3	31.1	----	60.0	----	28.9	----	N(QP)
7	0.19800	----	19.5	10.0	----	29.5	----	53.7	----	24.2	N(CAV)
8	0.37000	----	24.8	10.0	----	34.8	----	48.5	----	13.7	N(CAV)
9	0.72900	----	17.7	10.0	----	27.7	----	46.0	----	18.3	N(CAV)
10	1.25600	----	16.0	10.1	----	26.1	----	46.0	----	19.9	N(CAV)
11	1.77600	----	15.8	10.1	----	25.9	----	46.0	----	20.1	N(CAV)
12	13.64000	----	14.5	10.3	----	24.8	----	50.0	----	25.2	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

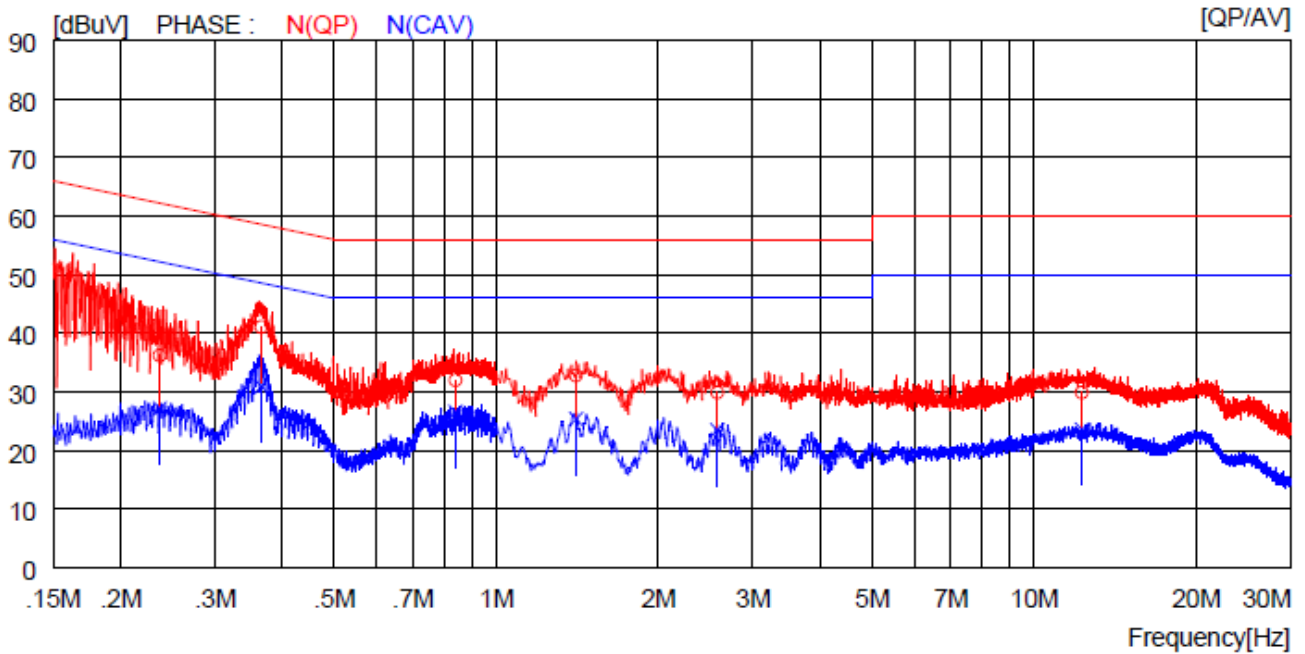
**8.13 Test data for Mode 9 (Frequency : 127.7 kHz / Accessories : Earphones)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.25100	30.7	----	10.0	40.7	----	61.7	----	21.0	----	H(QP)
2	0.36800	35.1	----	10.0	45.1	----	58.5	----	13.4	----	H(QP)
3	0.89300	25.1	----	10.0	35.1	----	56.0	----	20.9	----	H(QP)
4	1.46000	26.0	----	10.1	36.1	----	56.0	----	19.9	----	H(QP)
5	3.28000	24.5	----	10.1	34.6	----	56.0	----	21.4	----	H(QP)
6	12.18000	25.7	----	10.3	36.0	----	60.0	----	24.0	----	H(QP)
7	0.25100	----	21.0	10.0	----	31.0	----	51.7	----	20.7	H(CAV)
8	0.36800	----	28.8	10.0	----	38.8	----	48.5	----	9.7	H(CAV)
9	0.89300	----	19.3	10.0	----	29.3	----	46.0	----	16.7	H(CAV)
10	1.46000	----	18.5	10.1	----	28.6	----	46.0	----	17.4	H(CAV)
11	3.28000	----	15.7	10.1	----	25.8	----	46.0	----	20.2	H(CAV)
12	12.18000	----	16.8	10.3	----	27.1	----	50.0	----	22.9	H(CAV)

- Tested Line : NEUTRAL LINE



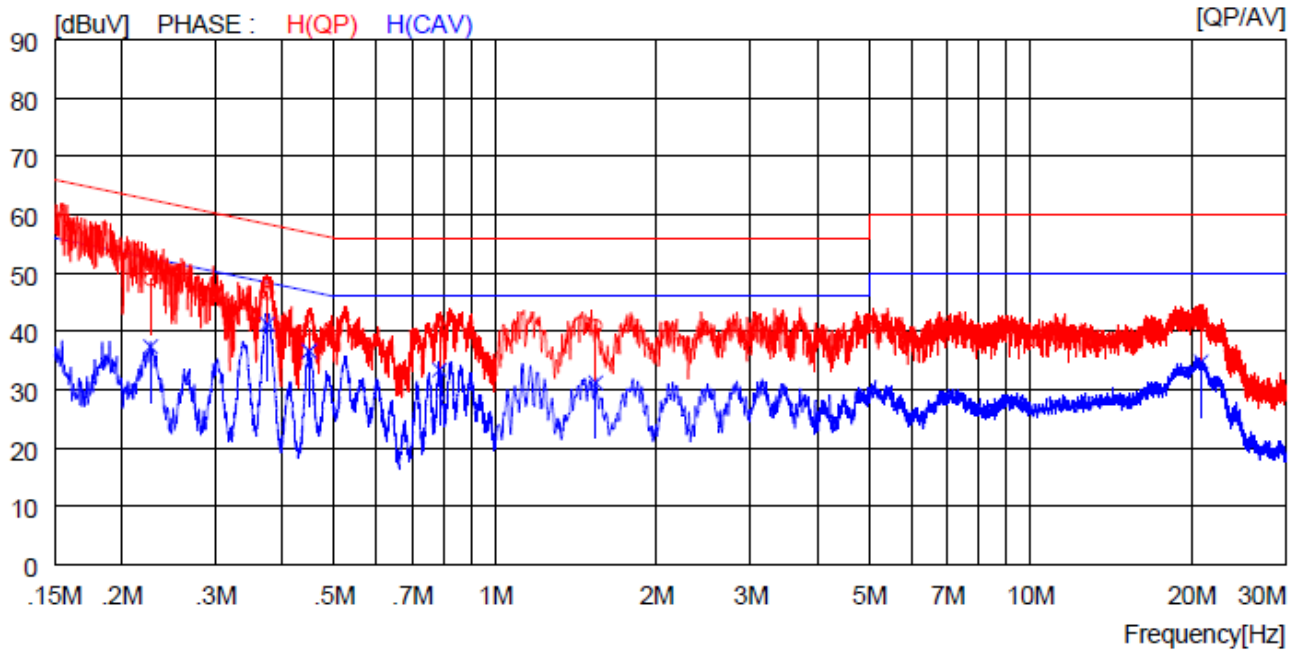
NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.23700	26.2	----	10.0	36.2	----	62.2	----	26.0	----	N(QP)
2	0.36600	31.1	----	10.0	41.1	----	58.6	----	17.5	----	N(QP)
3	0.84000	22.0	----	10.0	32.0	----	56.0	----	24.0	----	N(QP)
4	1.40800	22.7	----	10.1	32.8	----	56.0	----	23.2	----	N(QP)
5	2.57600	19.8	----	10.1	29.9	----	56.0	----	26.1	----	N(QP)
6	12.27000	19.6	----	10.3	29.9	----	60.0	----	30.1	----	N(QP)
7	0.23700	----	17.2	10.0	----	27.2	----	52.2	----	25.0	N(CAV)
8	0.36600	----	20.9	10.0	----	30.9	----	48.6	----	17.7	N(CAV)
9	0.84000	----	16.6	10.0	----	26.6	----	46.0	----	19.4	N(CAV)
10	1.40800	----	15.3	10.1	----	25.4	----	46.0	----	20.6	N(CAV)
11	2.57600	----	13.4	10.1	----	23.5	----	46.0	----	22.5	N(CAV)
12	12.27000	----	13.3	10.3	----	23.6	----	50.0	----	26.4	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

**8.14 Test data for Mode 10 (Frequency : 127.7 kHz + 127.7 kHz / Accessories : Mobile + Earphones)**

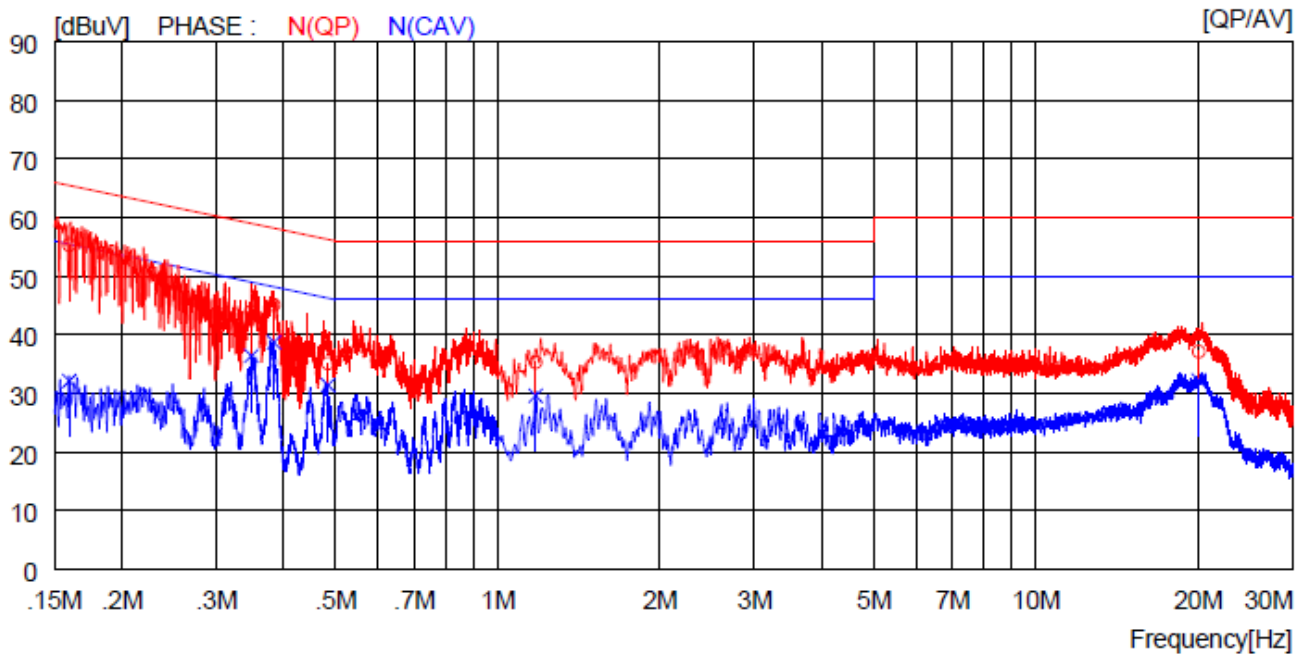
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.22700	38.9	----	10.0	48.9	----	62.6	----	13.7	----	H (QP)
2	0.37500	36.6	----	10.0	46.6	----	58.4	----	11.8	----	H (QP)
3	0.44900	30.5	----	10.0	40.5	----	56.9	----	16.4	----	H (QP)
4	0.78700	30.7	----	10.0	40.7	----	56.0	----	15.3	----	H (QP)
5	1.54000	30.8	----	10.1	40.9	----	56.0	----	15.1	----	H (QP)
6	20.84000	31.1	----	10.4	41.5	----	60.0	----	18.5	----	H (QP)
7	0.22700	----	27.4	10.0	----	37.4	----	52.6	----	15.2	H (CAV)
8	0.37500	----	31.2	10.0	----	41.2	----	48.4	----	7.2	H (CAV)
9	0.44900	----	26.6	10.0	----	36.6	----	46.9	----	10.3	H (CAV)
10	0.78700	----	23.4	10.0	----	33.4	----	46.0	----	12.6	H (CAV)
11	1.54000	----	21.1	10.1	----	31.2	----	46.0	----	14.8	H (CAV)
12	20.84000	----	24.4	10.4	----	34.8	----	50.0	----	15.2	H (CAV)



-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16000	45.3	----	10.0	55.3	----	65.5	----	10.2	----	N(QP)
2	0.34900	33.9	----	10.0	43.9	----	59.0	----	15.1	----	N(QP)
3	0.38400	35.1	----	10.0	45.1	----	58.2	----	13.1	----	N(QP)
4	0.48400	25.1	----	10.0	35.1	----	56.3	----	21.2	----	N(QP)
5	1.17600	25.2	----	10.1	35.3	----	56.0	----	20.7	----	N(QP)
6	20.08000	26.7	----	10.4	37.1	----	60.0	----	22.9	----	N(QP)
7	0.16000	----	22.1	10.0	----	32.1	----	55.5	----	23.4	N(CAV)
8	0.34900	----	26.4	10.0	----	36.4	----	49.0	----	12.6	N(CAV)
9	0.38400	----	28.7	10.0	----	38.7	----	48.2	----	9.5	N(CAV)
10	0.48400	----	21.4	10.0	----	31.4	----	46.3	----	14.9	N(CAV)
11	1.17600	----	19.5	10.1	----	29.6	----	46.0	----	16.4	N(CAV)
12	20.08000	----	21.8	10.4	----	32.2	----	50.0	----	17.8	N(CAV)

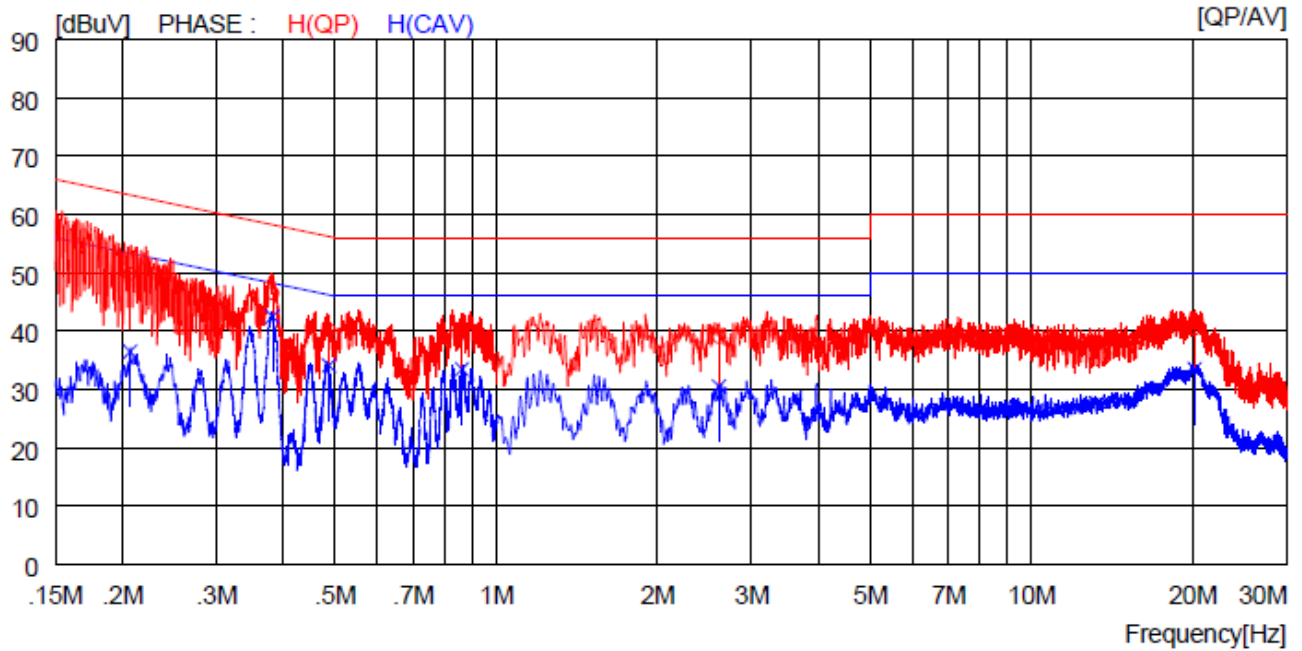
Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.



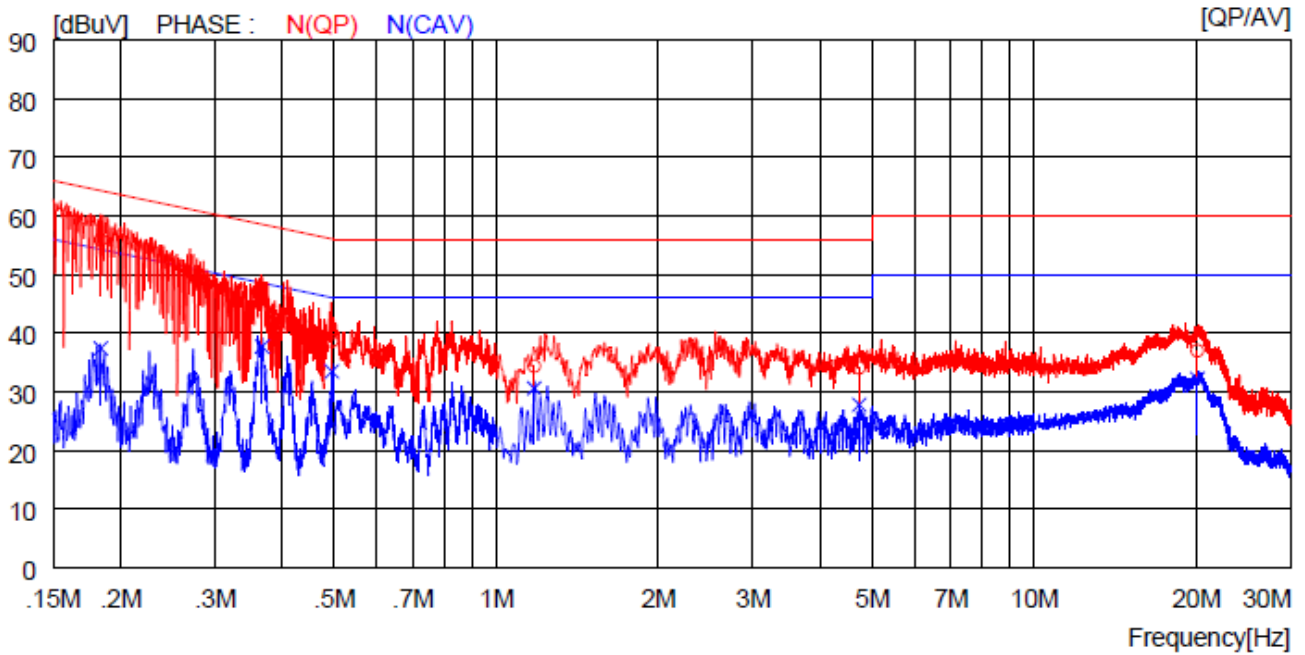
**8.15 Test data for Mode 11 (Frequency : 127.7 kHz + 146.0 kHz / Accessories : Mobile + Watches)**

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.20700	39.8	----	10.0	49.8	----	63.3	----	13.5	----	H(QP)
2	0.38200	36.5	----	10.0	46.5	----	58.2	----	11.7	----	H(QP)
3	0.48700	30.1	----	10.0	40.1	----	56.2	----	16.1	----	H(QP)
4	0.86300	29.7	----	10.0	39.7	----	56.0	----	16.3	----	H(QP)
5	2.60800	28.9	----	10.1	39.0	----	56.0	----	17.0	----	H(QP)
6	20.18000	30.0	----	10.4	40.4	----	60.0	----	19.6	----	H(QP)
7	0.20700	----	26.5	10.0	----	36.5	----	53.3	----	16.8	H(CAV)
8	0.38200	----	32.5	10.0	----	42.5	----	48.2	----	5.7	H(CAV)
9	0.48700	----	24.1	10.0	----	34.1	----	46.2	----	12.1	H(CAV)
10	0.86300	----	23.5	10.0	----	33.5	----	46.0	----	12.5	H(CAV)
11	2.60800	----	20.4	10.1	----	30.5	----	46.0	----	15.5	H(CAV)
12	20.18000	----	23.1	10.4	----	33.5	----	50.0	----	16.5	H(CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18400	45.9	----	10.0	55.9	----	64.3	----	8.4	----	N(QP)
2	0.36700	35.8	----	10.0	45.8	----	58.6	----	12.8	----	N(QP)
3	0.49500	28.7	----	10.0	38.7	----	56.1	----	17.4	----	N(QP)
4	1.17600	24.3	----	10.1	34.4	----	56.0	----	21.6	----	N(QP)
5	4.72800	23.9	----	10.2	34.1	----	56.0	----	21.9	----	N(QP)
6	20.11000	26.6	----	10.4	37.0	----	60.0	----	23.0	----	N(QP)
7	0.18400	----	27.4	10.0	----	37.4	----	54.3	----	16.9	N(CAV)
8	0.36700	----	27.7	10.0	----	37.7	----	48.6	----	10.9	N(CAV)
9	0.49500	----	23.5	10.0	----	33.5	----	46.1	----	12.6	N(CAV)
10	1.17600	----	20.5	10.1	----	30.6	----	46.0	----	15.4	N(CAV)
11	4.72800	----	17.6	10.2	----	27.8	----	46.0	----	18.2	N(CAV)
12	20.11000	----	21.8	10.4	----	32.2	----	50.0	----	17.8	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

**9. LIST OF TEST EQUIPMENT**

<b>Model Number</b>	<b>Manufacturer</b>	<b>Description</b>	<b>Serial Number</b>	<b>Last Cal.(Interval)</b>
ESR	R/S	Spectrum analyzer	101470	Oct. 18, 2021 (1Y)
ESCI	R/S	Test Receiver	101012	Oct. 20, 2021 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 14, 2021 (1Y)
HLP-2008	TDK	Hybrid Antenna	131316	Feb. 27, 2020 (2Y)
CO3000	Innco Systems GmbH	Controller	N/A	N/A
DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
NSLK8128	Schwarzbeck	V - LISN ( 4*32/50A)	8128216	Mar. 16, 2021 (1Y)
ESH3-Z2	R/S	Pulse Limiter	100655	Mar. 15, 2021 (1Y)
MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2020 (2Y)