



Radio Test Report

Report No.: STS2603352W01

Issued for

Porsche Dr. Ing. h. c. F. Porsche AG

Porscheplatz 1, 70435 Stuttgart, Germany

Product Name: Smartphone Charging Pad

Brand Name: N/A

Model Name: WWCA20251002

Series Model(s): N/A

FCC ID: 2BU6U-WWCA20251002

Test Standards: FCC Part 15 Subpart C

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name.....: Porsche Dr. Ing. h. c. F. Porsche AG
Address.....: Porscheplatz 1, 70435 Stuttgart, Germany
Manufacturer's Name.....: Porsche Dr. Ing. h. c. F. Porsche AG
Address.....: Porscheplatz 1, 70435 Stuttgart, Germany

Product Description

Product Name.....: Smartphone Charging Pad
Brand.....: N/A
Model Number.....: WWCA20251002
Series Model(s).....: N/A

Test Standards.....: FCC Part 15 Subpart C

Test Procedure.....: ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date of receipt of test item.....: 2026.02.03

Date (s) of performance of tests.: 2026.02.05 to 2026.03.01

Date of Issue.....: 2026.03.10

Test Result.....: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	2026.03.10	STS2603352W01	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.209(a)	Radiated emission, Spurious Emission	PASS	
2.1049	20 dB Bandwidth	PASS	

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smartphone Charging Pad
Brand	N/A
Model Number	WWCA20251002
Series Model(s)	N/A
Model Difference	N/A
Equipemnt Category	Non-ISM frequency
Antenna Type	loop coil antenna
Operating frequency	115-205KHz
Modulation Type	ASK
Power Rating	Input: DC 5V/3A,9V/2A Wireless Output: 5W,7.5W,10W,15W(Max)
Wireless charging power	15W Max
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	N/A	Coil	N/A	Antenna



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Wireless charger 5W
Mode 2	Wireless charger 7.5W
Mode 3	Wireless charger 10W
Mode 4	Wireless charger 15W

For Conducted Emission	
The worst mode	Description
Mode 4	Wireless charger 15W

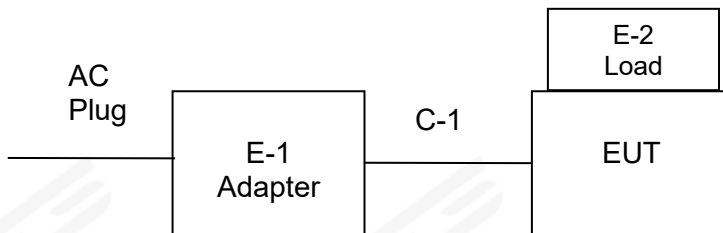
For Radiated Emission	
The worst mode	Description
Mode 4	Wireless charger 15W



2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

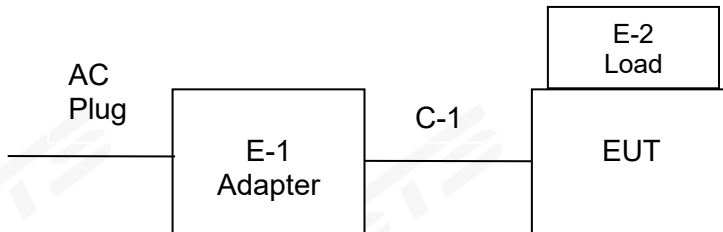
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Radiated Emission Test



Conducted Emission Test

Mode 1





2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	ZTC	NB-A515A	Auxiliary
E-2	Load	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.8m	Auxiliary

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Active loop Antenna	ZHINAN	ZN30900C	16035	2026.02.04	2027.02.03
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limtter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Power detector group	Keysight	NW2021031	N/A	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	MW	MTS 8310 2.0.0.0			



3. CONDUCTED EMISSION TEST RESULT (SECTION 15.207)

3.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “*” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

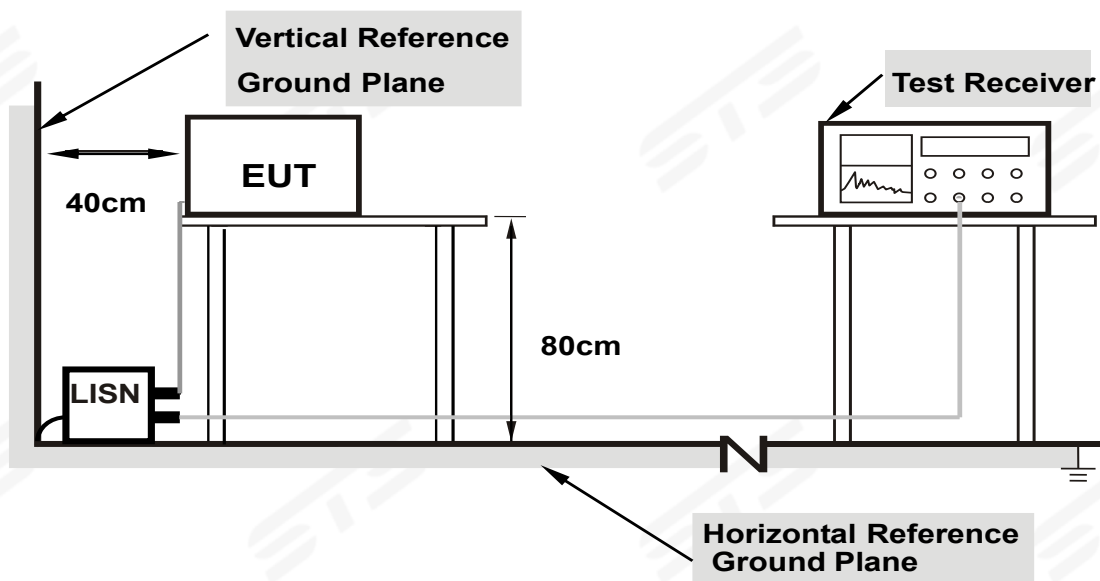
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

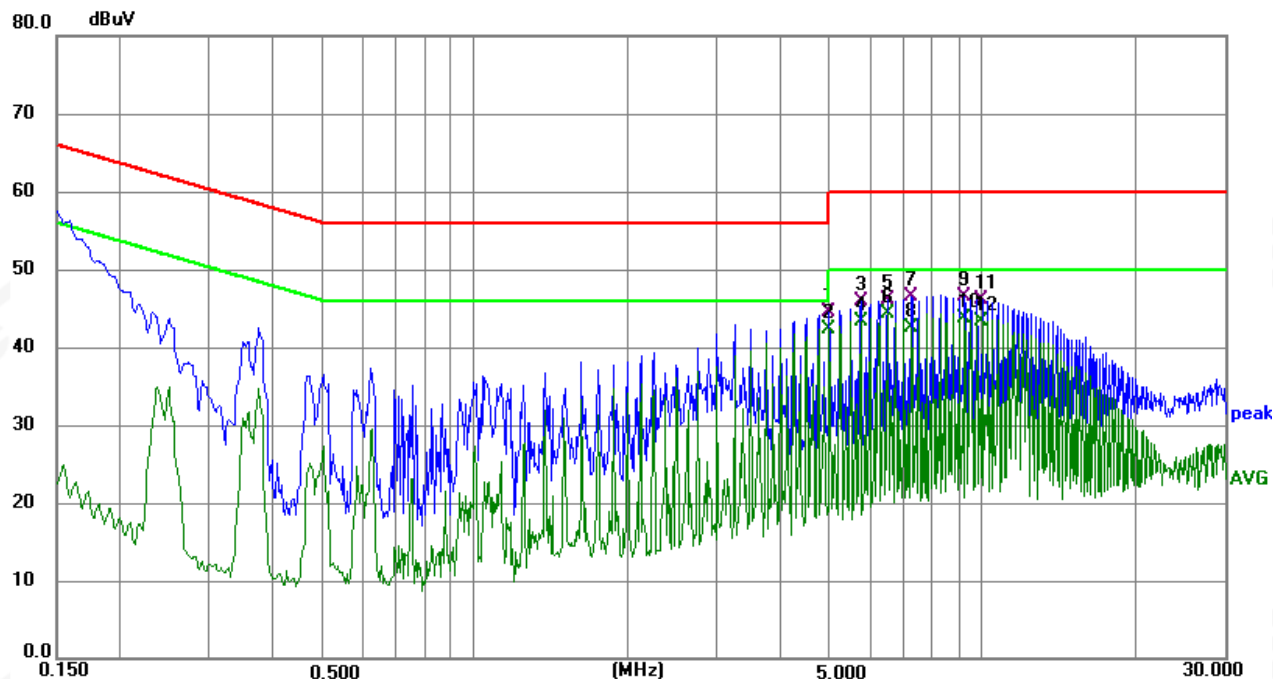
3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.5 TEST RESULTS

Temperature:	23.7°C	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		



Remark:

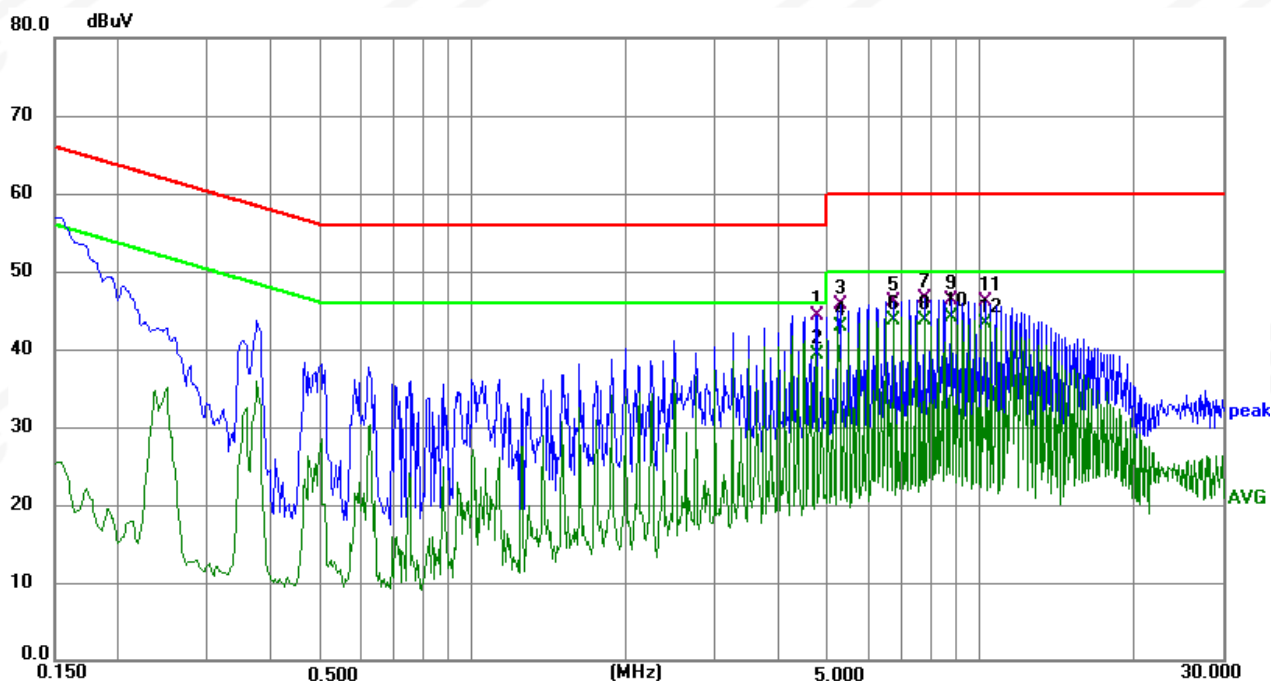
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	5.0010	32.00	12.47	44.47	60.00	-15.53	QP
2	5.0010	29.74	12.47	42.21	50.00	-7.79	AVG
3	5.7480	33.30	12.62	45.92	60.00	-14.08	QP
4	5.7480	30.70	12.62	43.32	50.00	-6.68	AVG
5	6.4995	33.23	12.79	46.02	60.00	-13.98	QP
6 *	6.4995	31.49	12.79	44.28	50.00	-5.72	AVG
7	7.2510	33.59	12.97	46.56	60.00	-13.44	QP
8	7.2510	29.60	12.97	42.57	50.00	-7.43	AVG
9	9.2490	32.86	13.58	46.44	60.00	-13.56	QP
10	9.2490	30.14	13.58	43.72	50.00	-6.28	AVG
11	10.0004	32.21	13.81	46.02	60.00	-13.98	QP
12	10.0004	29.49	13.81	43.30	50.00	-6.70	AVG

Temperature:	23.7°C	Relative Humidity:	54%
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Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4		



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	4.7535	31.97	12.35	44.32	56.00	-11.68	QP
2	4.7535	26.98	12.35	39.33	46.00	-6.67	AVG
3	5.2935	33.24	12.51	45.75	60.00	-14.25	QP
4	5.2935	30.42	12.51	42.93	50.00	-7.07	AVG
5	6.7470	33.37	12.75	46.12	60.00	-13.88	QP
6	6.7470	30.98	12.75	43.73	50.00	-6.27	AVG
7	7.7505	33.45	13.03	46.48	60.00	-13.52	QP
8	7.7505	30.70	13.03	43.73	50.00	-6.27	AVG
9	8.7495	32.99	13.32	46.31	60.00	-13.69	QP
10 *	8.7495	30.87	13.32	44.19	50.00	-5.81	AVG
11	10.2480	32.27	13.77	46.04	60.00	-13.96	QP
12	10.2480	29.61	13.77	43.38	50.00	-6.62	AVG

4. RADIATED& FIELD EMISSION TEST RESULT (SECTION 15.209)

4.1 LIMIT

Frequency [MHz]	Field Strength [uV/m]	Measurement Distance [Meters]
-----------------	-----------------------	-------------------------------



0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

§ 15.209(d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.2 TEST PROCEDURE

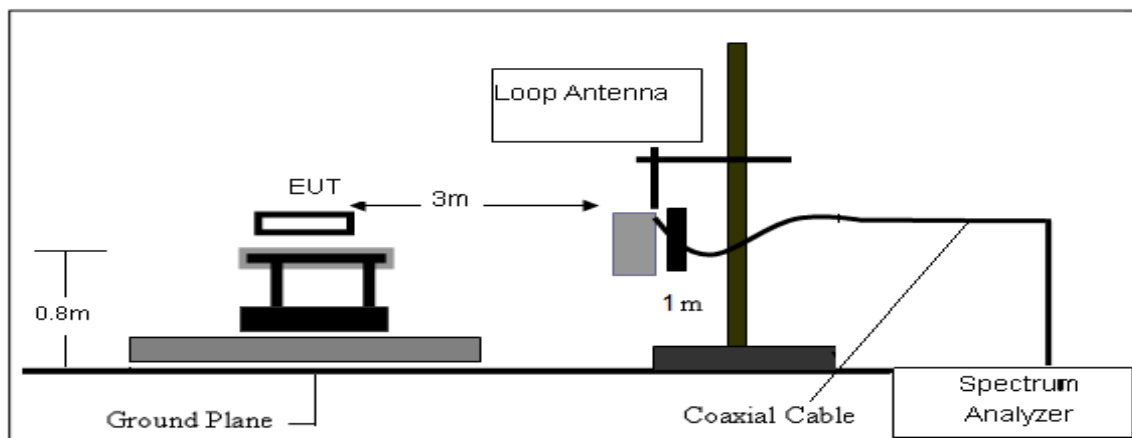
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

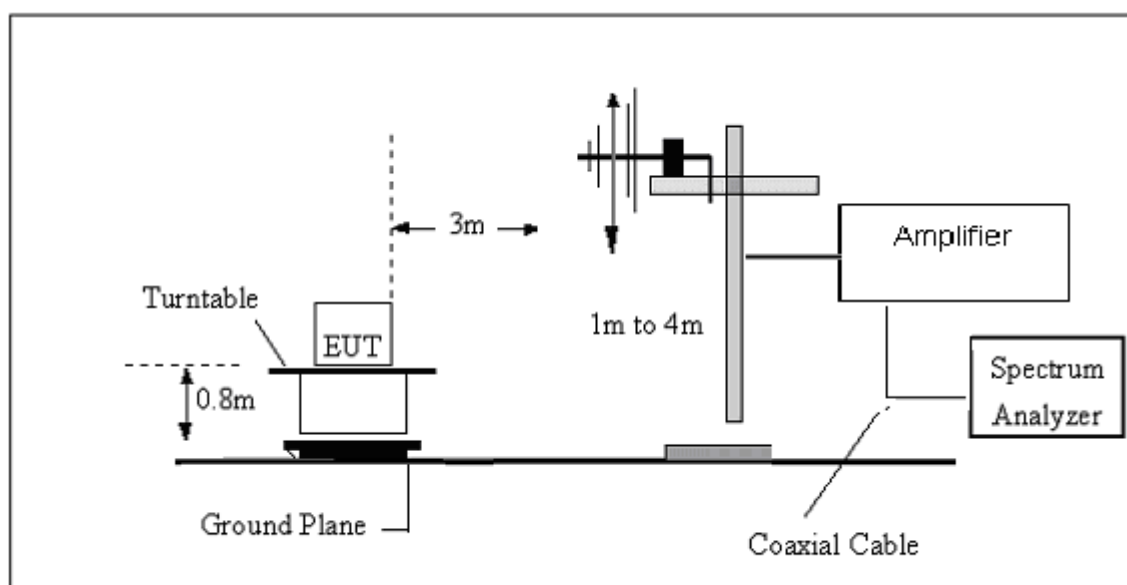
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



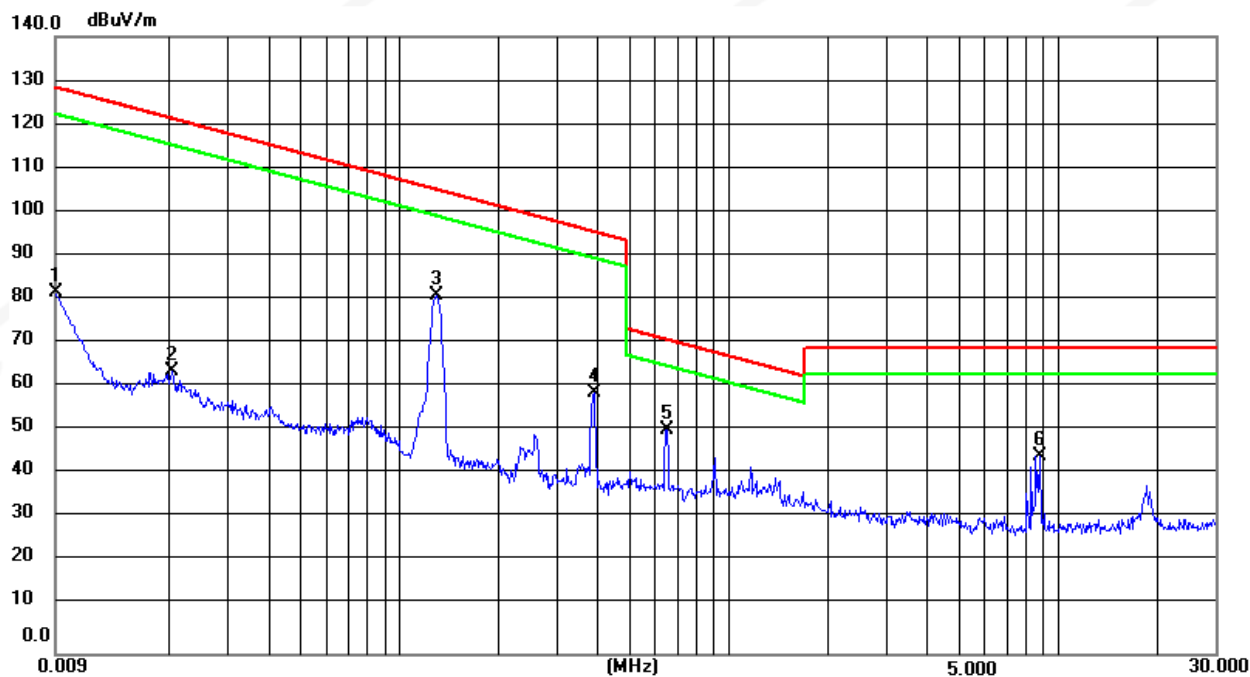


4.4 TEST RESULTS

4.4.1 SPURIOUS RADIATED EMISSION BELOW 30 MHZ

Temperature :	26°C	Relative Humidity :	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4

9KHz- 30MHz



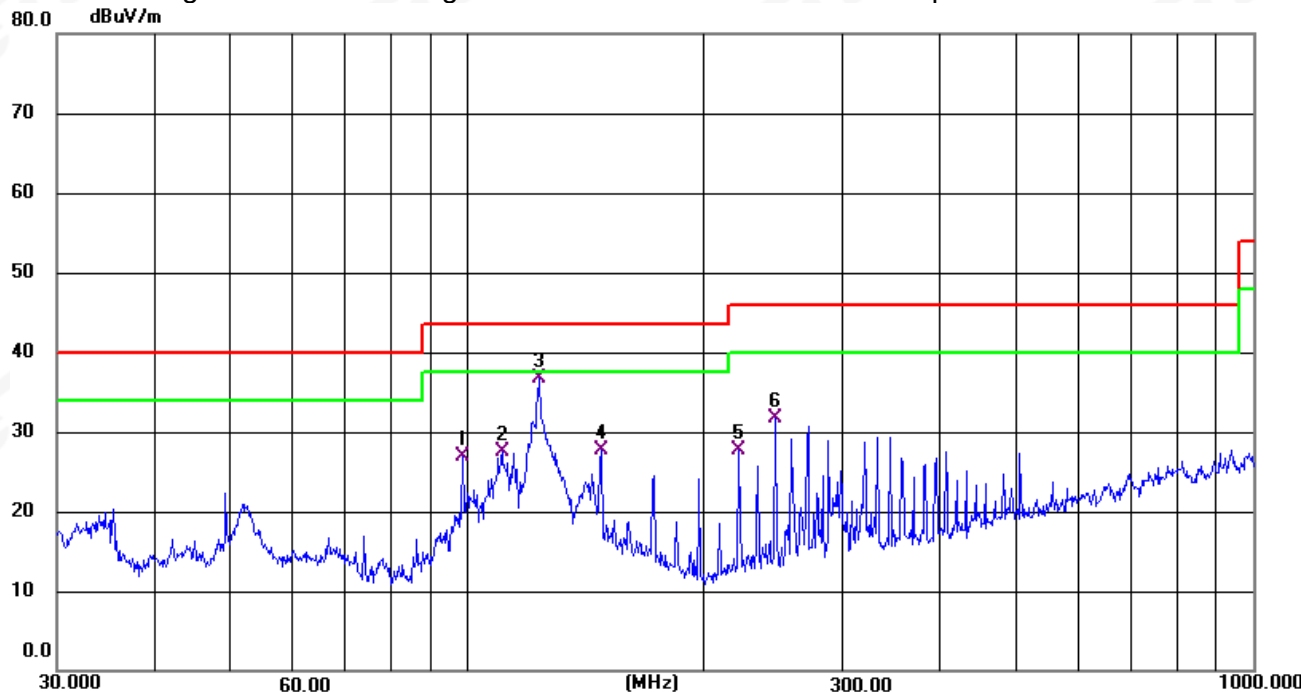
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0090	93.76	-11.60	82.16	128.50	-46.34	peak
2	0.0204	75.79	-11.51	64.28	121.40	-57.12	peak
3	0.1298	92.38	-11.16	81.22	105.33	-24.11	peak
4	0.3880	70.81	-11.49	59.32	95.83	-36.51	peak
5 *	0.6468	62.02	-11.20	50.82	71.40	-20.58	peak
6	8.8139	55.86	-10.72	45.14	69.54	-24.40	peak



4.4.2 Spurious Radiated Emission below 1 GHz

Temperature :	26℃	Relative Humidity :	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4

The following table shows the highest levels of radiated emissions on polarizations of horizontal



Remark:

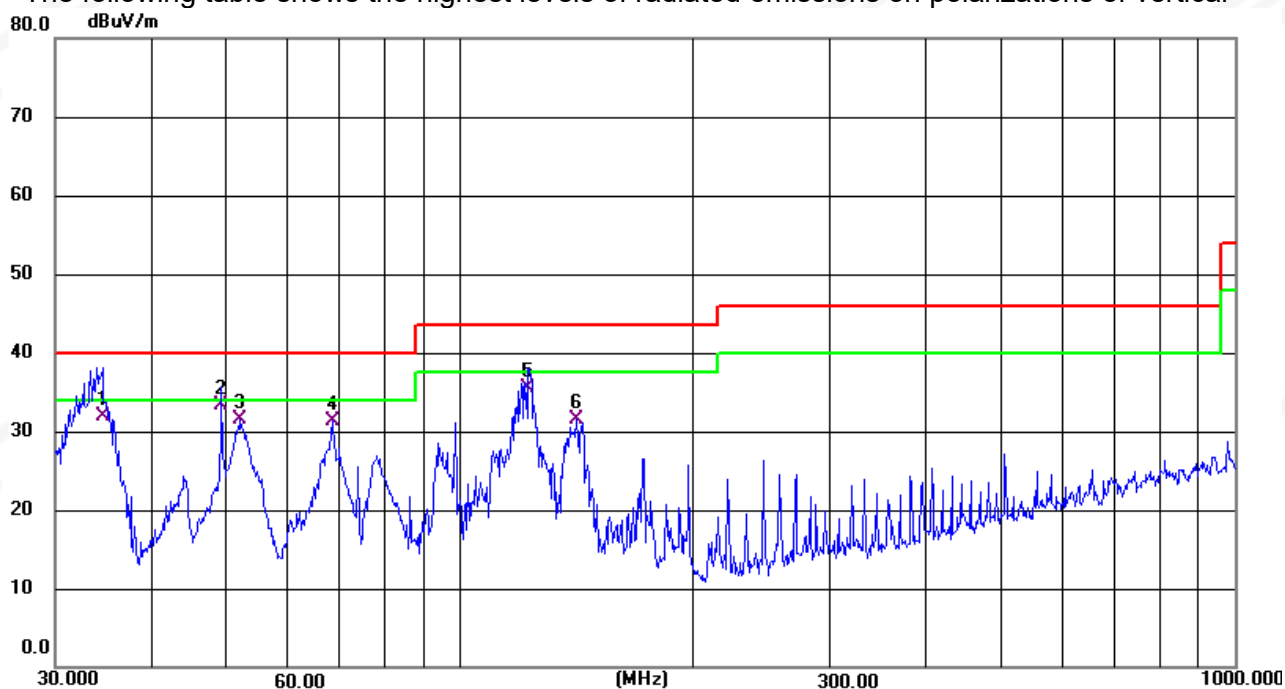
1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	98.4866	41.66	-14.71	26.95	43.50	-16.55	QP
2	110.5687	40.30	-12.83	27.47	43.50	-16.03	QP
3 *	123.2655	48.49	-11.70	36.79	43.50	-6.71	QP
4	147.9214	37.87	-10.18	27.69	43.50	-15.81	QP
5	221.3921	41.46	-13.74	27.72	46.00	-18.28	QP
6	245.9509	43.98	-12.22	31.76	46.00	-14.24	QP



Temperature :	26℃	Relative Humidity :	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 4

The following table shows the highest levels of radiated emissions on polarizations of vertical



Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.5173	44.82	-12.82	32.00	40.00	-8.00	QP
2 *	49.1865	45.82	-12.42	33.40	40.00	-6.60	QP
3	52.0251	43.24	-11.68	31.56	40.00	-8.44	QP
4	68.3908	45.28	-14.06	31.22	40.00	-8.78	QP
5	122.4040	47.28	-11.68	35.60	43.50	-7.90	QP
6	141.3298	42.11	-10.69	31.42	43.50	-12.08	QP



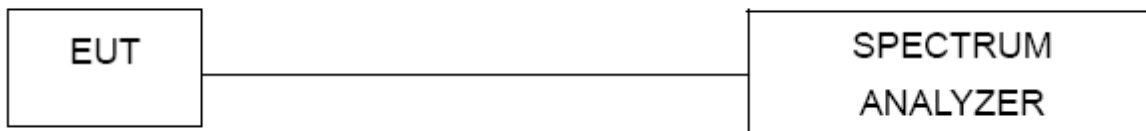
5. 20 DB BANDWIDTH TEST

5.1 Limit

FCC Part 2.1049, Only applicable to report.

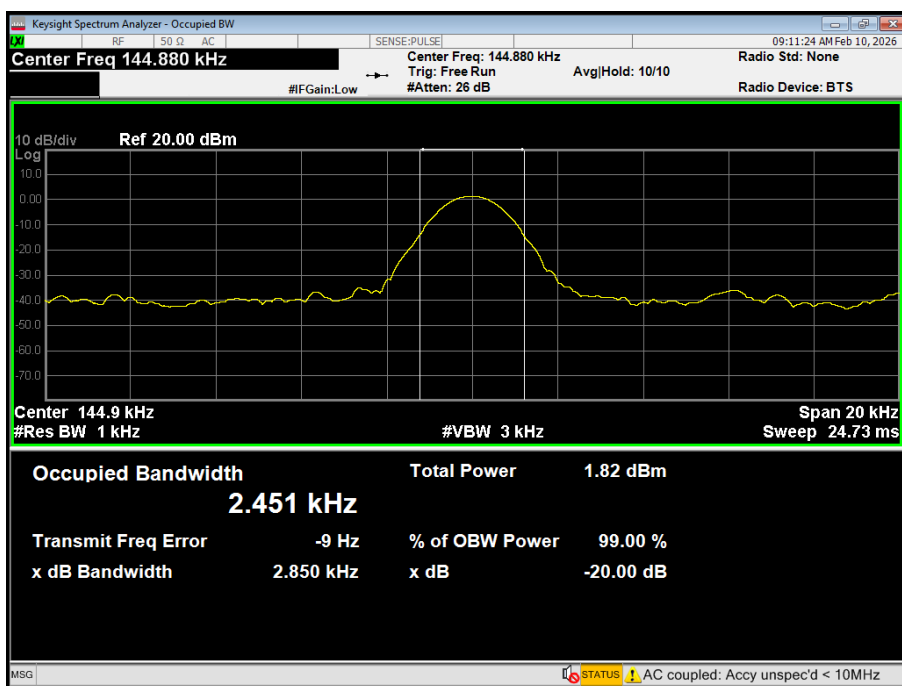
5.2 TEST SETUP

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.



5.3 TEST RESULTS

Operating Frequency (kHz)	20 dB Bandwidth (KHz)
144.9	2.85





APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※