

FCC Test Report

Report No.: RFBCBS-WTW-P20120492

FCC ID: K7SWIZ010

Test Model: WIZ010

Received Date: Dec. 15, 2020

Test Date: Dec. 16 ~ Dec. 17, 2020

Issued Date: Dec. 30, 2020

Applicant: Belkin International, Inc.

Address: 12045 East Waterfront Drive, Playa Vista, CA 90094

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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33383, TAIWAN

FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RFBCBS-WTW-P20120492	Original release	Dec. 30, 2020

1 Certificate of Conformity

Product: BOOST↑CHARGE™ PRO 2-in-1 Wireless Charger Stand with MagSafe

Brand: belkin

Test Model: WIZ010

Sample Status: Engineering sample

Applicant: Belkin International, Inc.

Test Date: Dec. 16 ~ Dec. 17, 2020

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.209)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :


Polly Chien / Specialist

Date:

Dec. 30, 2020

Approved by :



Date:

Dec. 30, 2020

Bruce Chen / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.209)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -17.54dB at 1.79925MHz.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -6.6dB at 56.71MHz

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	BOOST↑CHARGE™ PRO 2-in-1 Wireless Charger Stand with MagSafe
Brand	belkin
Test Model	WIZ010
Sample Status	Engineering sample
Power Supply Rating	15Vdc (adapter)
Modulation Type	FSK
Operating Frequency	360.0kHz 111-148kHz
Antenna Type	Coil antenna (The Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible)
Field Strength	360.0kHz: -28.3dBuV/m 147.9kHz: -7.3dBuV/m
Dimension for iPhone charging coil	12.12cm ² (Diameter = 39.3mm)
Dimension for AirPods charging coil	15.20cm ² (Diameter = 44mm)
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below
Maximum Power Output for iPhone charging coil	15W
Maximum Power Output for AirPods charging coil	5W

Note: The EUT uses following adapter.

Brand	belkin
Model	2ACR040G NJ, 2ACR040G EU, 2ACR040G AU, 2ACR040G UK
Input Power	100-240Vac, 50/60Hz, 1.3A Max
Output Power	15Vdc, 2.67A
Power Line	1.5m DC cable without core attached on adapter

3.2 Description of Test Modes

2 channels are provided to this EUT

Channel	Freq. (kHz)
1	360.0
2	147.9

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT configure mode	Applicable to		Description
	RE<1G	PLC	
A	√	√	Charging Mode (EUT wireless charging to iPhone)
B	√	√	Charging Mode (EUT wireless charging to AirPods)
C	√	√	Charging Mode (EUT wireless charging to iPhone and AirPods)
D	√	√	Standby Mode

Where **RE<1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

Note: The EUT is designed to be positioned on the **X-plane** only.

Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel
A	1, 2	1
B	1, 2	2
C	1, 2	1, 2
D	1, 2	1, 2

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel
A	1, 2	1
B	1, 2	2
C	1, 2	1, 2
D	1, 2	1, 2

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE<1G	23 deg. C, 67% RH	120Vac, 60Hz	Adair Peng
PLC	23 deg. C, 67% RH	120Vac, 60Hz	Adair Peng

3.3 Description of Support Units

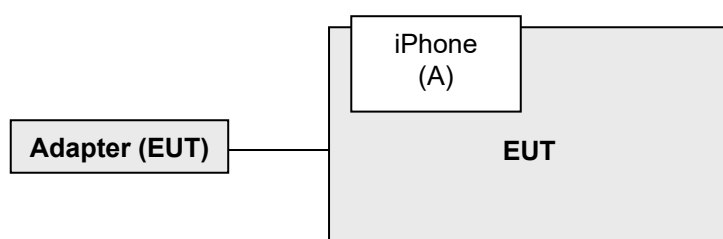
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	iPhone	APPLE	A2407	NA	NA	Provided by manufacturer
B.	AirPods	APPLE	A2031, A2032, A1938	NA	NA	Provided by manufacturer

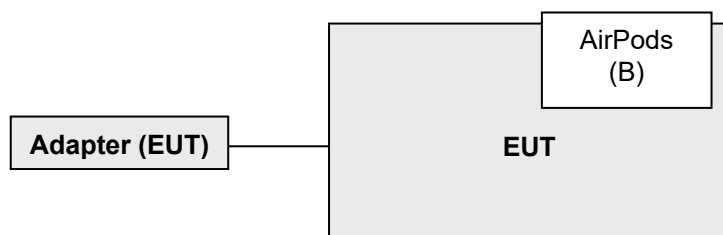
3.3.1 Configuration of System under Test

Charging Mode:

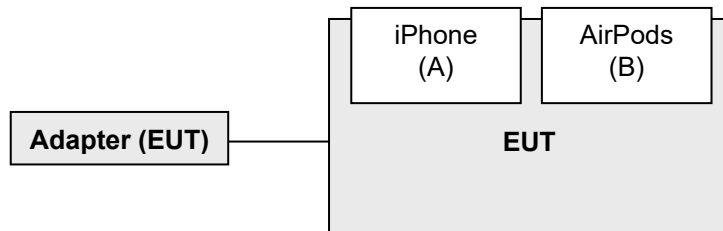
Test Mode A



Test Mode B

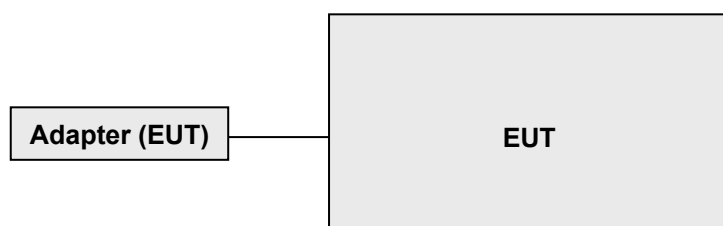


Test Mode C



Standby Mode:

Test Mode D



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.209)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

FOR FREQUENCY BELOW 30MHz

Frequency (MHz)	Field Strength (dBuV/m)		Measurement Distance (meters)
	uV/m	dBuV/m	
0.009 – 0.490	2400 / F (kHz)	48.52-13.80	300
0.490 – 1.705	24000 / F (kHz)	33.80-22.97	30
1.705 – 30.0	30	29.54	30

FOR FREQUENCY BETWEEN 30-1000MHz

Frequency (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
30-88	90	39.1	100	40.0
88-216	150	43.5	150	43.5
216-960	210	46.4	200	46.0
Above 960	300	49.5	500	54.0

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 04, 2020	Nov. 03, 2021
HORN Antenna SCHWARZBECK	9120D	209	Nov. 24, 2019	Dec. 30, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Dec. 30, 2020
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 16, 2020	Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 23, 2020	Mar. 22, 2021
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-S M-8000	Cable-CH3-03 (309224+170907)	Aug. 16, 2020	Aug. 15, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and Ground-Parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

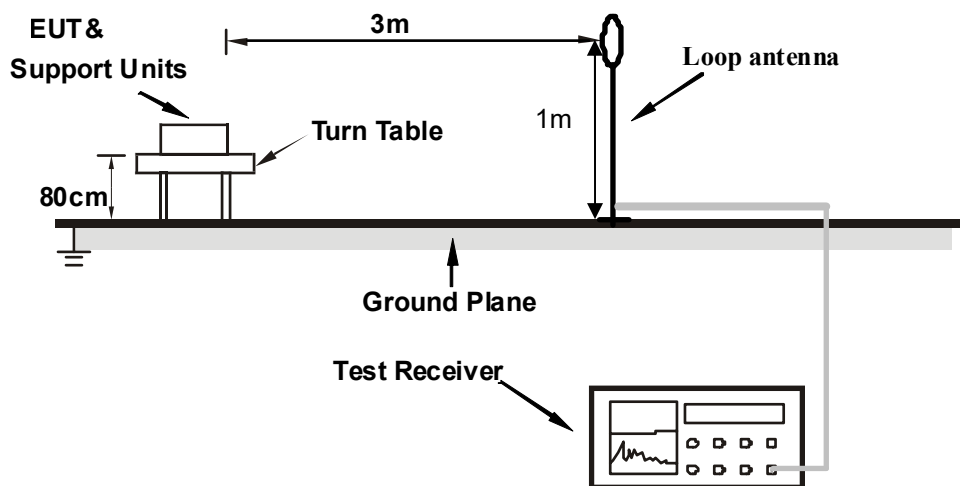
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

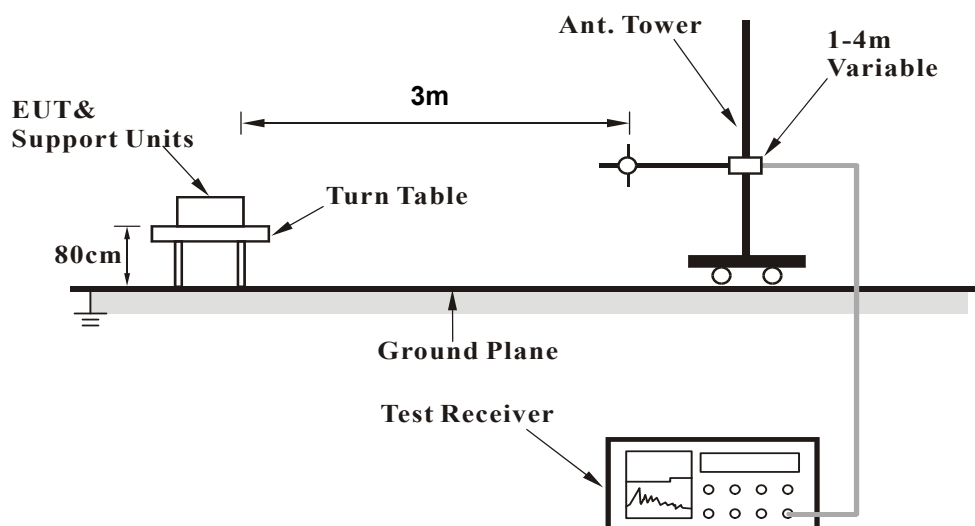
No deviation.

4.1.5 Test Set Up

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

Charging Mode:

Test Mode A

- a. The EUT powered by adapter.
- b. Put the iPhone on the EUT (wireless charging) during the test.

Test Mode B

- a. The EUT powered by adapter.
- b. Put the AirPods on the EUT (wireless charging) during the test.

Test Mode C

- a. The EUT powered by adapter.
- b. Put the iPhone and AirPods on the EUT (wireless charging) during the test.

Standby Mode:

Test Mode D

- a. The EUT powered by adapter.

4.1.7 Test Results

Below 30MHz Data:

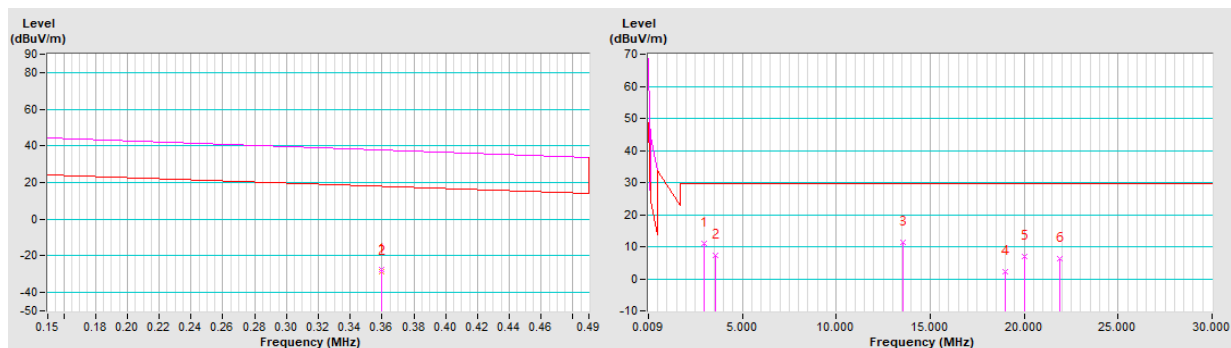
Charging Mode

Channel	TX Channel 1	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK)
Test Mode	A		Quasi-Peak (QP)

Antenna Polarity & Test Distance: Loop antenna Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.3600	-27.2 PK	36.5	-63.7	1.00	320	33.0	-60.2
2	*0.3600	-28.7 AV	16.5	-45.2	1.00	320	31.5	-60.2
3	2.9646	11.1 QP	29.5	-18.4	1.00	78	31.8	-20.7
4	3.5731	7.4 QP	29.5	-22.1	1.00	157	27.9	-20.5
5	13.5701	11.5 QP	29.5	-18.0	1.00	12	30.2	-18.7
6	19.0033	2.2 QP	29.5	-27.3	1.00	8	20.6	-18.4
7	20.0030	7.0 QP	29.5	-22.5	1.00	259	25.4	-18.4
8	21.9155	6.2 QP	29.5	-23.3	1.00	165	24.6	-18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

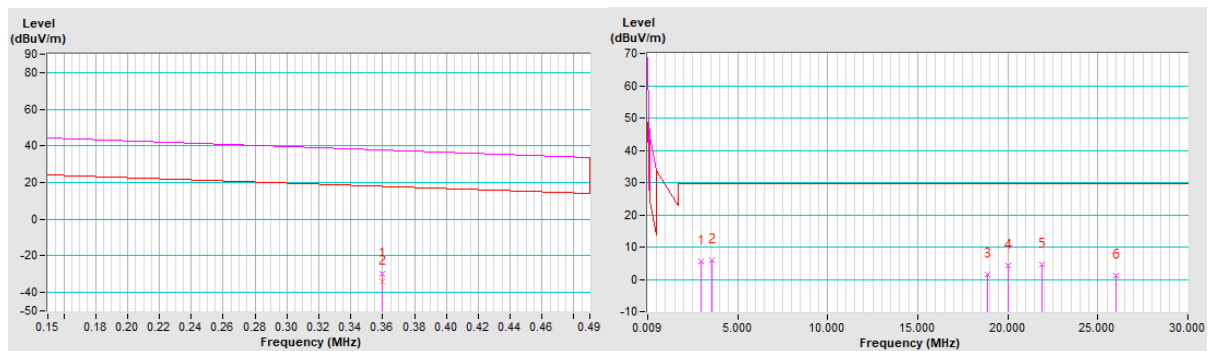


Channel	TX Channel 1	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	A		

Antenna Polarity & Test Distance: Loop antenna Perpendicular at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.3600	-30.1 PK	36.5	-66.6	1.00	11	30.1	-60.2
2	*0.3600	-33.7 AV	16.5	-50.2	1.00	11	26.5	-60.2
3	2.9646	5.6 QP	29.5	-23.9	1.00	309	26.3	-20.7
4	3.5731	6.0 QP	29.5	-23.5	1.00	174	26.5	-20.5
5	18.8729	1.5 QP	29.5	-28.0	1.00	9	19.9	-18.4
6	20.0030	4.1 QP	29.5	-25.4	1.00	218	22.5	-18.4
7	21.9155	4.5 QP	29.5	-25.0	1.00	141	22.9	-18.4
8	26.0012	1.1 QP	29.5	-28.4	1.00	300	19.4	-18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

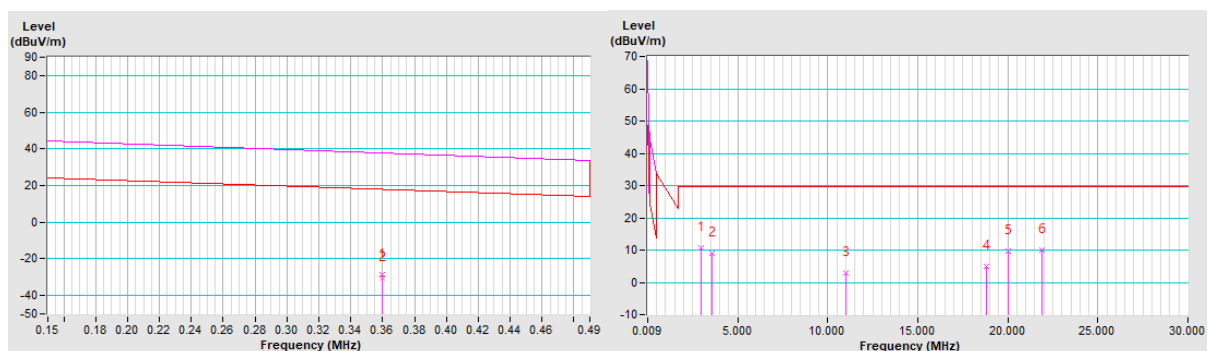


Channel	TX Channel 1	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	A		

Antenna Polarity & Test Distance: Loop antenna Ground-Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.3600	-28.9 PK	36.5	-65.4	1.00	311	31.3	-60.2
2	*0.3600	-30.7 AV	16.5	-47.2	1.00	311	29.5	-60.2
3	2.9646	10.6 QP	29.5	-18.9	1.00	227	31.3	-20.7
4	3.5731	9.0 QP	29.5	-20.5	1.00	340	29.5	-20.5
5	11.0057	2.9 QP	29.5	-26.6	1.00	179	21.7	-18.8
6	18.7860	4.9 QP	29.5	-24.6	1.00	12	23.3	-18.4
7	20.0030	9.6 QP	29.5	-19.9	1.00	139	28.0	-18.4
8	21.9155	10.1 QP	29.5	-19.4	1.00	100	28.5	-18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * ”: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

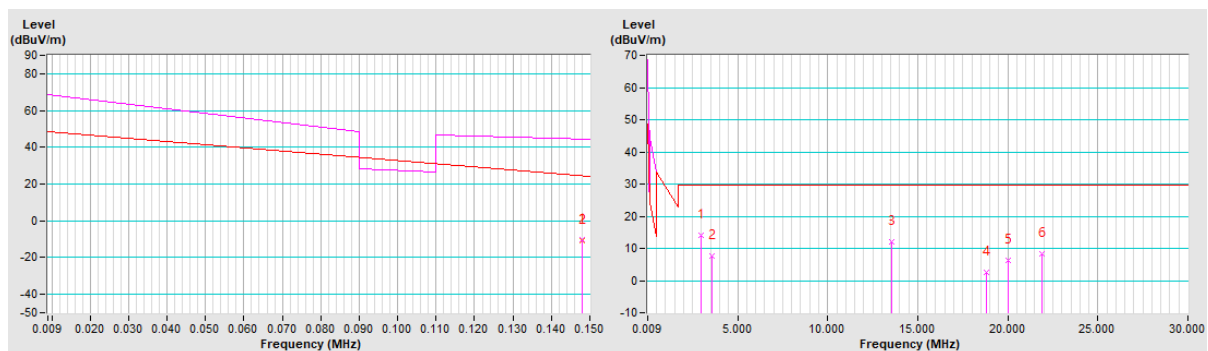


Channel	TX Channel 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity & Test Distance: Loop antenna Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-10.1 PK	44.2	-54.3	1.00	158	50.5	-60.6
2	*0.1479	-10.7 AV	24.2	-34.9	1.00	158	49.9	-60.6
3	2.9646	14.0 QP	29.5	-15.5	1.00	4	34.7	-20.7
4	3.5731	7.6 QP	29.5	-21.9	1.00	15	28.1	-20.5
5	13.5701	12.0 QP	29.5	-17.5	1.00	151	30.7	-18.7
6	18.8294	2.5 QP	29.5	-27.0	1.00	351	20.9	-18.4
7	20.0030	6.4 QP	29.5	-23.1	1.00	259	24.8	-18.4
8	21.9155	8.2 QP	29.5	-21.3	1.00	241	26.6	-18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * ”: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

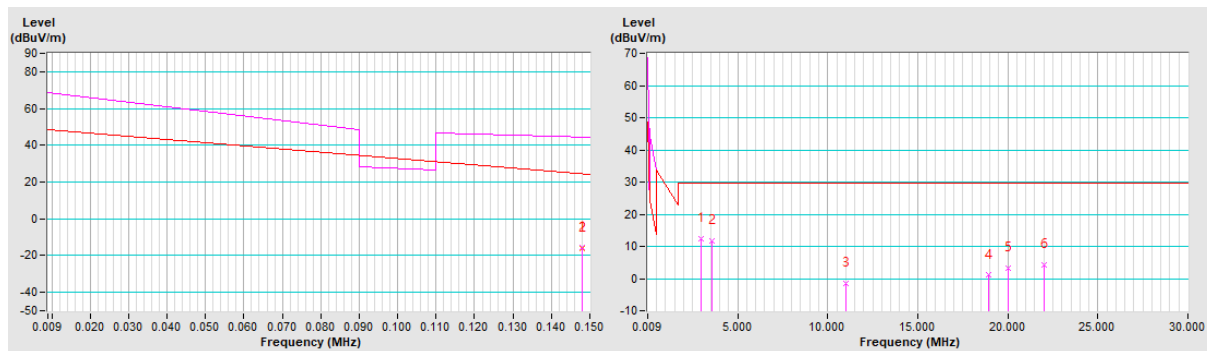


Channel	TX Channel 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity & Test Distance: Loop antenna Perpendicular at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-15.5 PK	44.2	-59.7	1.00	277	45.1	-60.6
2	*0.1479	-16.1 AV	24.2	-40.3	1.00	277	44.5	-60.6
3	2.9646	12.4 QP	29.5	-17.1	1.00	66	33.1	-20.7
4	3.5731	11.7 QP	29.5	-17.8	1.00	57	32.2	-20.5
5	11.0057	-1.4 QP	29.5	-30.9	1.00	325	17.4	-18.8
6	18.9598	1.0 QP	29.5	-28.5	1.00	128	19.4	-18.4
7	20.0030	3.1 QP	29.5	-26.4	1.00	59	21.5	-18.4
8	22.0024	4.4 QP	29.5	-25.1	1.00	114	22.8	-18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

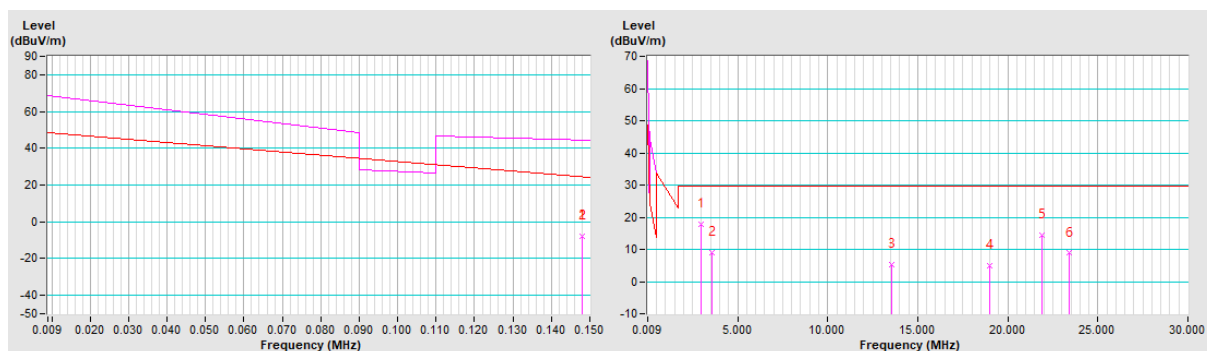


Channel	TX Channel 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity & Test Distance: Loop antenna Ground-Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-7.6 PK	44.2	-51.8	1.00	191	53.0	-60.6
2	*0.1479	-8.1 AV	24.2	-32.3	1.00	191	52.5	-60.6
3	2.9646	17.7 QP	29.5	-11.8	1.00	21	38.4	-20.7
4	3.5731	8.9 QP	29.5	-20.6	1.00	4	29.4	-20.5
5	13.5701	5.3 QP	29.5	-24.2	1.00	57	24.0	-18.7
6	19.0033	5.0 QP	29.5	-24.5	1.00	233	23.4	-18.4
7	21.9155	14.3 QP	29.5	-15.2	1.00	206	32.7	-18.4
8	23.4368	8.8 QP	29.5	-20.7	1.00	16	27.1	-18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * ”: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

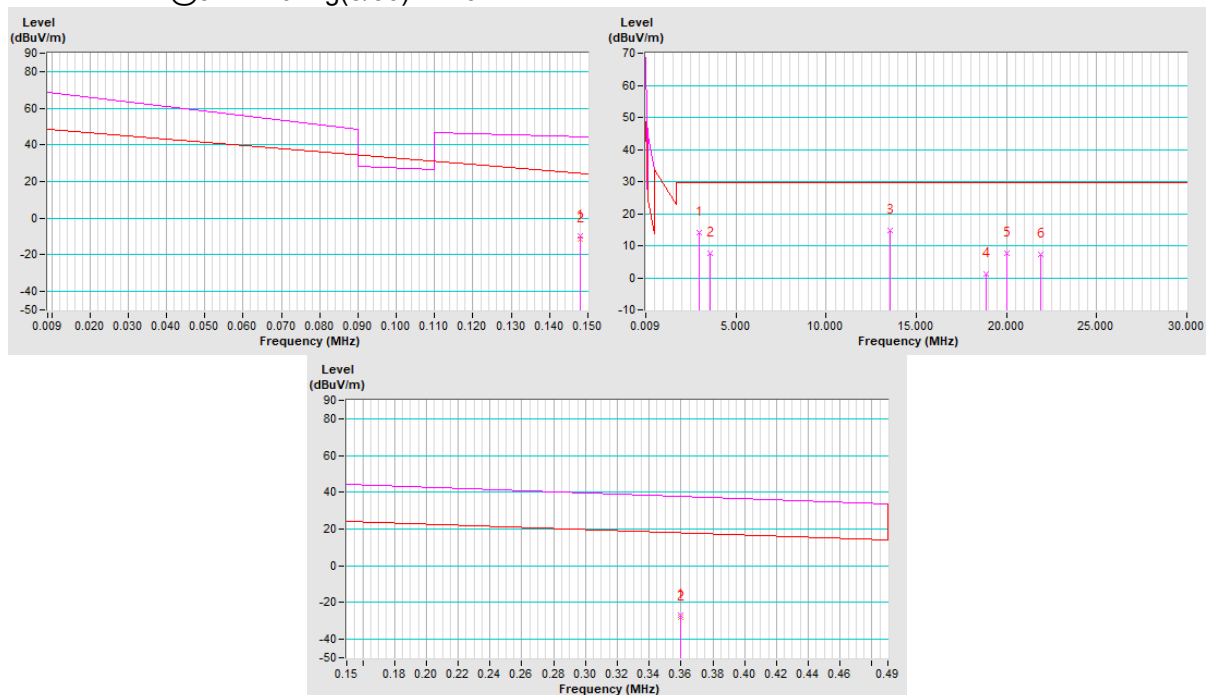


Channel	TX Channel 1 + 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity & Test Distance: Loop antenna Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-9.9 PK	44.2	-54.1	1.00	178	50.7	-60.6
2	*0.1479	-11.4 AV	24.2	-35.6	1.00	178	49.2	-60.6
3	*0.3600	-26.9 PK	36.5	-63.4	1.00	277	33.3	-60.2
4	*0.3600	-28.3 AV	16.5	-44.8	1.00	277	31.9	-60.2
5	2.9646	14.2 QP	29.5	-15.3	1.00	303	34.9	-20.7
6	3.5731	7.5 QP	29.5	-22.0	1.00	127	28.0	-20.5
7	13.5701	14.9 QP	29.5	-14.6	1.00	231	33.6	-18.7
8	18.8729	1.1 QP	29.5	-28.4	1.00	6	19.5	-18.4
9	20.0030	7.5 QP	29.5	-22.0	1.00	242	25.9	-18.4
10	21.9155	7.2 QP	29.5	-22.3	1.00	326	25.6	-18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * ”: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

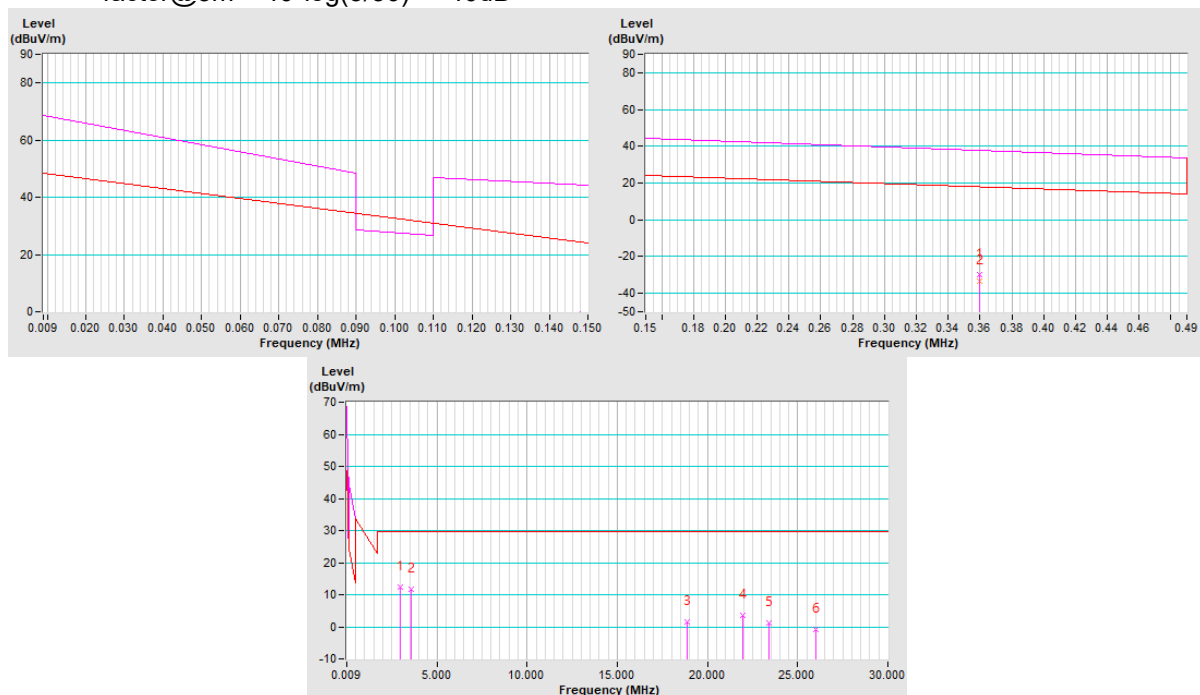


Channel	TX Channel 1 + 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity & Test Distance: Loop antenna Perpendicular at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-16.5 PK	44.2	-60.7	1.00	274	44.1	-60.6
2	*0.1479	-17.6 AV	24.2	-41.8	1.00	274	43.0	-60.6
3	*0.3600	-29.7 PK	36.5	-66.2	1.00	27	30.5	-60.2
4	*0.3600	-33.2 AV	16.5	-49.7	1.00	27	27.0	-60.2
5	2.9646	12.4 QP	29.5	-17.1	1.00	108	33.1	-20.7
6	3.5731	11.6 QP	29.5	-17.9	1.00	235	32.1	-20.5
7	18.8729	1.4 QP	29.5	-28.1	1.00	136	19.8	-18.4
8	21.9589	3.7 QP	29.5	-25.8	1.00	247	22.1	-18.4
9	23.4368	1.3 QP	29.5	-28.2	1.00	113	19.6	-18.3
10	26.0012	-0.8 QP	29.5	-30.3	1.00	354	17.5	-18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

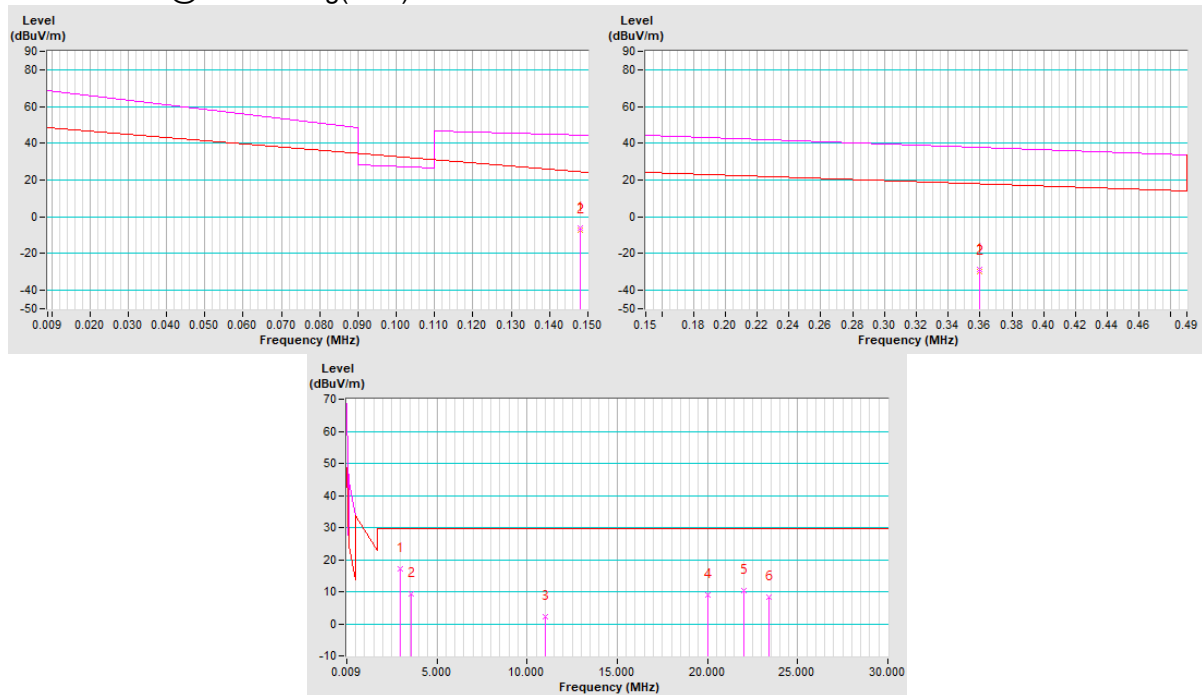


Channel	TX Channel 1 + 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity & Test Distance: Loop antenna Ground-Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-6.1 PK	44.2	-50.3	1.00	191	54.5	-60.6
2	*0.1479	-7.3 AV	24.2	-31.5	1.00	191	53.3	-60.6
3	*0.3600	-28.5 PK	36.5	-65.0	1.00	293	31.7	-60.2
4	*0.3600	-30.1 AV	16.5	-46.6	1.00	293	30.1	-60.2
5	2.9646	17.2 QP	29.5	-12.3	1.00	29	37.9	-20.7
6	3.5731	9.2 QP	29.5	-20.3	1.00	282	29.7	-20.5
7	11.0057	2.3 QP	29.5	-27.2	1.00	307	21.1	-18.8
8	20.0030	9.0 QP	29.5	-20.5	1.00	114	27.4	-18.4
9	22.0024	10.3 QP	29.5	-19.2	1.00	52	28.7	-18.4
10	23.4368	8.3 QP	29.5	-21.2	1.00	329	26.6	-18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$



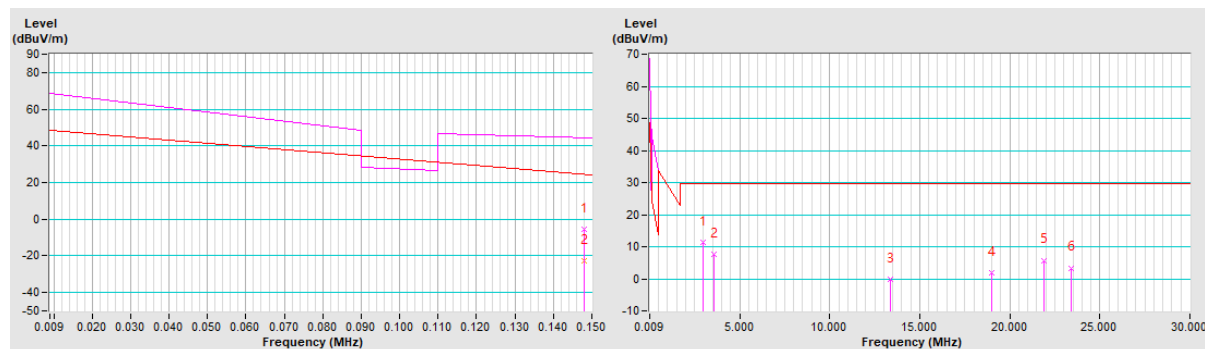
Standby Mode

Channel	TX Channel 1 + 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	D		

Antenna Polarity & Test Distance: Loop antenna Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-5.5 PK	44.2	-49.7	1.00	258	55.1	-60.6
2	*0.1479	-22.9 AV	24.2	-47.1	1.00	258	37.7	-60.6
3	2.9646	11.4 QP	29.5	-18.1	1.00	300	32.1	-20.7
4	3.5731	7.5 QP	29.5	-22.0	1.00	284	28.0	-20.5
5	13.3528	-0.1 QP	29.5	-29.6	1.00	104	18.6	-18.7
6	19.0033	2.0 QP	29.5	-27.5	1.00	5	20.4	-18.4
7	21.9155	5.8 QP	29.5	-23.7	1.00	64	24.2	-18.4
8	23.4368	3.4 QP	29.5	-26.1	1.00	210	21.7	-18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * ”: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

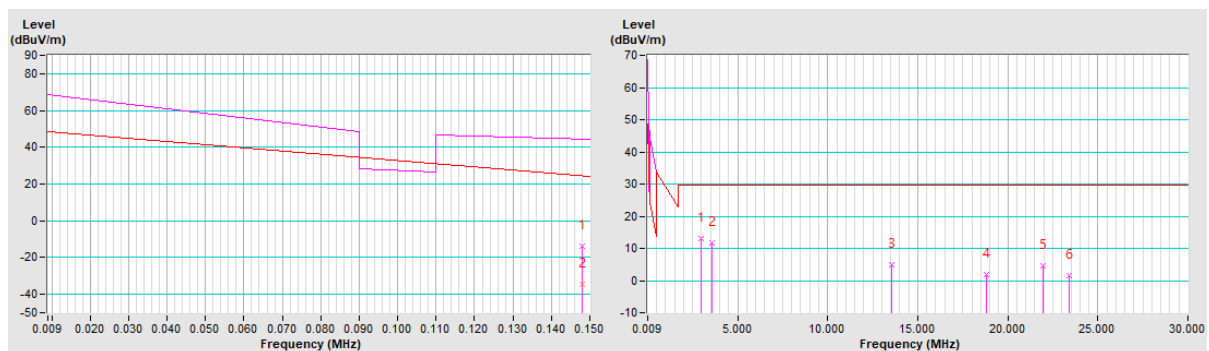


Channel	TX Channel 1 + 2	Detector Function	Average (AV)
Frequency Range	9 kHz ~ 30 MHz		Peak (PK) Quasi-Peak (QP)
Test Mode	D		

Antenna Polarity & Test Distance: Loop antenna Perpendicular at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	-13.9 PK	44.2	-58.1	1.00	315	46.7	-60.6
2	*0.1479	-34.5 AV	24.2	-58.7	1.00	315	26.1	-60.6
3	2.9646	13.0 QP	29.5	-16.5	1.00	85	33.7	-20.7
4	3.5731	11.7 QP	29.5	-17.8	1.00	350	32.2	-20.5
5	13.5701	4.9 QP	29.5	-24.6	1.00	5	23.6	-18.7
6	18.7860	1.8 QP	29.5	-27.7	1.00	212	20.2	-18.4
7	21.9589	4.5 QP	29.5	-25.0	1.00	107	22.9	-18.4
8	23.4368	1.5 QP	29.5	-28.0	1.00	352	19.8	-18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$

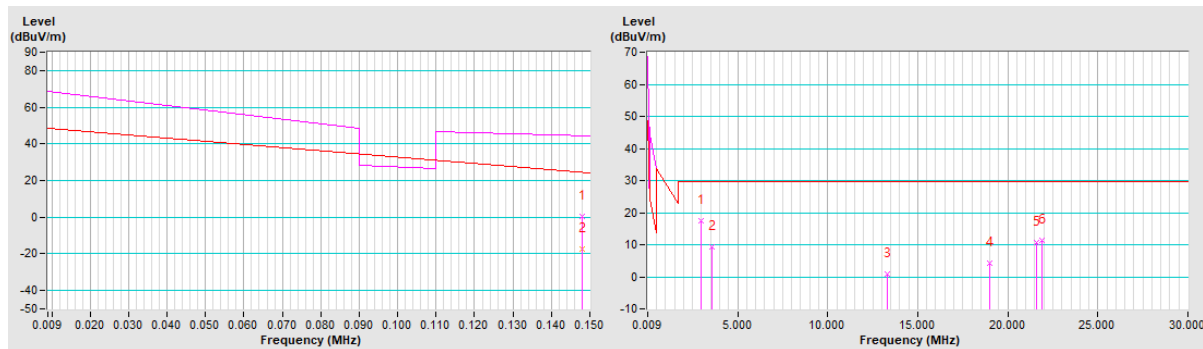


Channel	TX Channel 1 + 2	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

Antenna Polarity & Test Distance: Loop antenna Ground-Parallel at 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*0.1479	0.5 PK	44.2	-43.7	1.00	143	61.1	-60.6
2	*0.1479	-17.1 AV	24.2	-41.3	1.00	143	43.5	-60.6
3	2.9646	17.4 QP	29.5	-12.1	1.00	61	38.1	-20.7
4	3.5731	9.2 QP	29.5	-20.3	1.00	200	29.7	-20.5
5	13.3094	0.8 QP	29.5	-28.7	1.00	173	19.5	-18.7
6	19.0033	4.2 QP	29.5	-25.3	1.00	58	22.6	-18.4
7	21.5677	10.8 QP	29.5	-18.7	1.00	167	29.2	-18.4
8	21.9155	11.4 QP	29.5	-18.1	1.00	250	29.8	-18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * ”: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. 0.009 ~ 0.49MHz, the measured field strength was extrapolated to distance 300 meters Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$
For 0.49 ~ 30MHz, the measured field strength was extrapolated to distance 30 meters Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$



Below 1GHz Data:

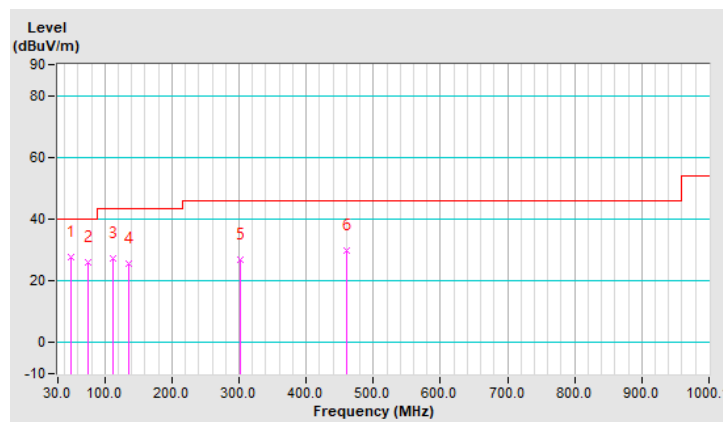
Charging Mode

Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	A		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.68	27.6 QP	40.0	-12.4	2.00 H	292	36.7	-9.1
2	74.99	26.1 QP	40.0	-13.9	1.50 H	238	38.1	-12.0
3	111.54	27.1 QP	43.5	-16.4	1.50 H	15	38.9	-11.8
4	135.45	25.6 QP	43.5	-17.9	2.00 H	41	35.0	-9.4
5	302.75	27.0 QP	46.0	-19.0	1.01 H	93	33.5	-6.5
6	460.22	29.7 QP	46.0	-16.3	2.00 H	117	32.7	-3.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

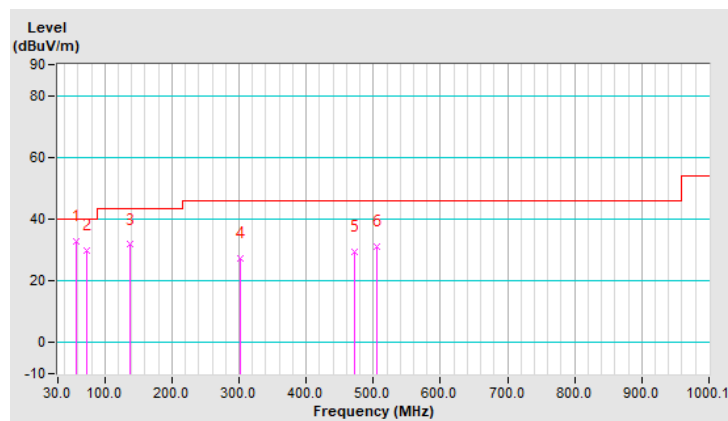


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	A		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.71	32.8 QP	40.0	-7.2	2.00 V	110	42.1	-9.3
2	72.18	29.7 QP	40.0	-10.3	2.00 V	5	41.2	-11.5
3	138.26	31.7 QP	43.5	-11.8	1.49 V	26	40.8	-9.1
4	301.35	27.2 QP	46.0	-18.8	1.49 V	150	33.8	-6.6
5	472.87	29.6 QP	46.0	-16.4	1.00 V	64	32.3	-2.7
6	505.21	31.0 QP	46.0	-15.0	1.00 V	101	33.2	-2.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

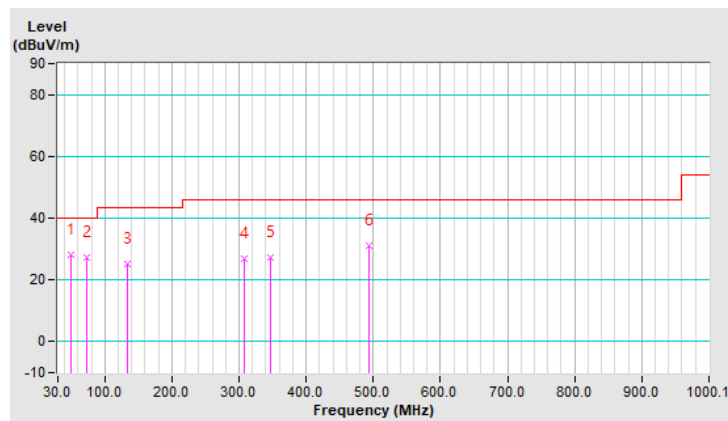


Channel	TX Channel 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.68	28.2 QP	40.0	-11.8	2.00 H	271	37.3	-9.1
2	72.18	27.5 QP	40.0	-12.5	1.49 H	262	39.0	-11.5
3	134.04	25.1 QP	43.5	-18.4	1.49 H	92	34.6	-9.5
4	306.97	26.9 QP	46.0	-19.1	1.00 H	90	33.3	-6.4
5	346.34	27.3 QP	46.0	-18.7	1.00 H	288	33.0	-5.7
6	493.96	30.9 QP	46.0	-15.1	1.00 H	11	33.4	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

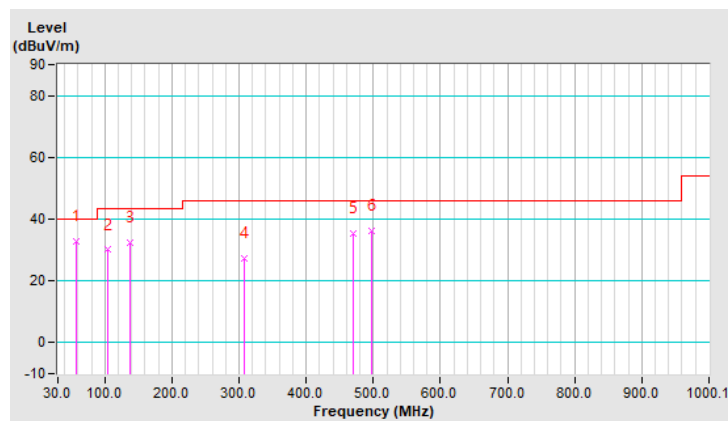


Channel	TX Channel 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.71	32.7 QP	40.0	-7.3	1.00 V	16	42.0	-9.3
2	104.51	30.0 QP	43.5	-13.5	1.00 V	16	42.5	-12.5
3	138.26	32.5 QP	43.5	-11.0	1.00 V	48	41.6	-9.1
4	308.38	27.2 QP	46.0	-18.8	1.00 V	159	33.6	-6.4
5	470.06	35.5 QP	46.0	-10.5	1.00 V	77	38.3	-2.8
6	496.77	36.2 QP	46.0	-9.8	1.00 V	77	38.5	-2.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

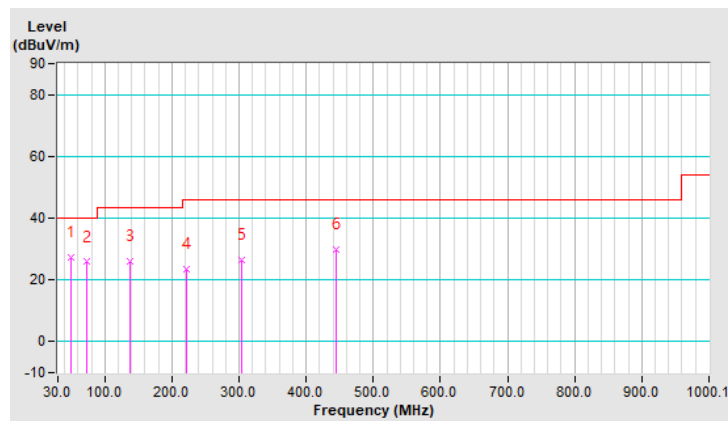


Channel	TX Channel 1 + 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.68	27.3 QP	40.0	-12.7	2.00 H	331	36.4	-9.1
2	72.18	25.8 QP	40.0	-14.2	1.50 H	251	37.3	-11.5
3	138.26	25.9 QP	43.5	-17.6	1.50 H	226	35.0	-9.1
4	221.21	23.4 QP	46.0	-22.6	1.50 H	244	33.9	-10.5
5	304.16	26.6 QP	46.0	-19.4	1.00 H	88	33.1	-6.5
6	444.75	29.9 QP	46.0	-16.1	2.00 H	123	33.3	-3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

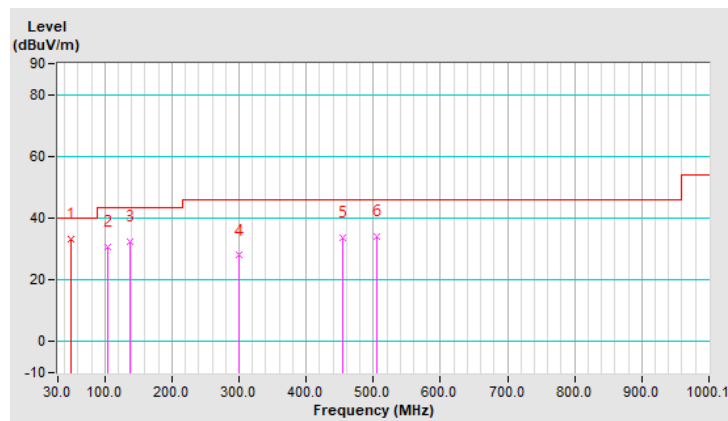


Channel	TX Channel 1 + 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	50.42	33.3 QP	40.0	-6.7	1.00 V	1	42.4	-9.1
2	104.51	30.6 QP	43.5	-12.9	1.01 V	0	43.1	-12.5
3	138.26	32.5 QP	43.5	-11.0	1.01 V	0	41.6	-9.1
4	299.94	27.9 QP	46.0	-18.1	1.51 V	7	34.5	-6.6
5	454.59	33.7 QP	46.0	-12.3	1.01 V	0	36.8	-3.1
6	505.21	34.2 QP	46.0	-11.8	1.01 V	0	36.4	-2.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



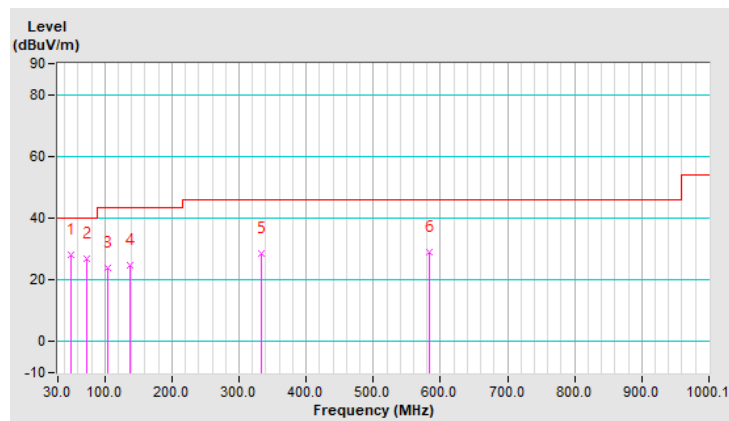
Standby Mode

Channel	TX Channel 1 + 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.68	28.3 QP	40.0	-11.7	2.00 H	224	37.4	-9.1
2	73.58	26.7 QP	40.0	-13.3	1.51 H	117	38.5	-11.8
3	104.51	24.1 QP	43.5	-19.4	2.00 H	259	36.6	-12.5
4	138.26	24.7 QP	43.5	-18.8	1.51 H	223	33.8	-9.1
5	333.68	28.4 QP	46.0	-17.6	1.01 H	208	34.1	-5.7
6	583.94	28.9 QP	46.0	-17.1	1.01 H	3	29.2	-0.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

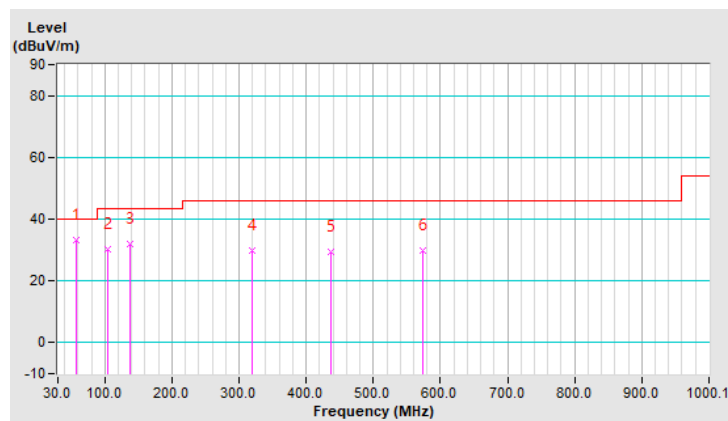


Channel	TX Channel 1 + 2	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.71	33.4 QP	40.0	-6.6	1.00 V	16	42.7	-9.3
2	104.51	30.1 QP	43.5	-13.4	1.00 V	16	42.6	-12.5
3	138.26	32.1 QP	43.5	-11.4	1.00 V	16	41.2	-9.1
4	319.62	29.9 QP	46.0	-16.1	1.00 V	175	36.0	-6.1
5	436.32	29.5 QP	46.0	-16.5	1.00 V	223	33.0	-3.5
6	574.10	29.9 QP	46.0	-16.1	1.00 V	288	30.6	-0.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102412	Feb. 17, 2020	Feb. 16, 2021
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2020	Sep. 03, 2021
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 20, 2020	Jan. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Aug. 18, 2020	Aug. 17, 2021
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 2 (Conduction 2).

3. The VCCI Site Registration No. is C-12047.

4.2.3 Test Procedures

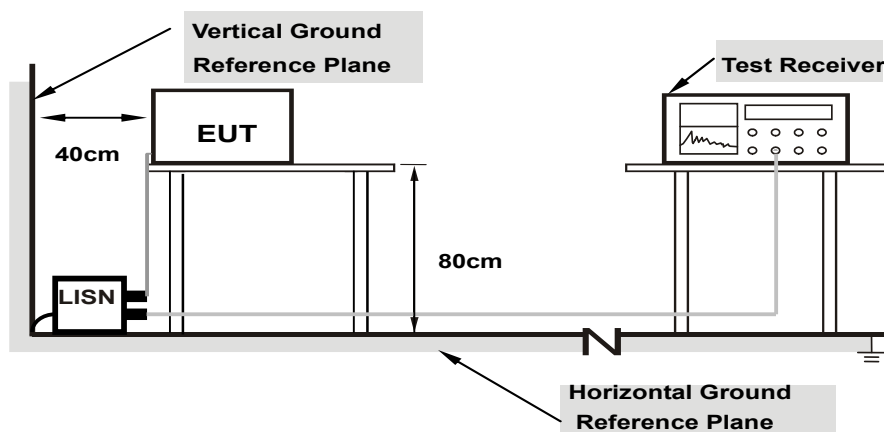
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

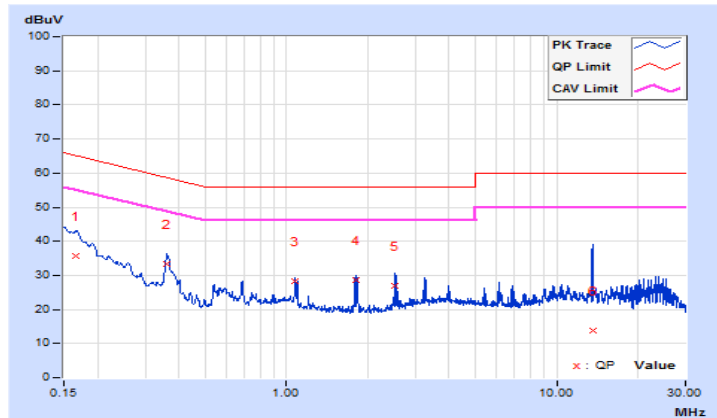
Charging Mode

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16524	10.10	25.49	7.16	35.59	17.26	65.20	55.20	-29.61	-37.94
2	0.36101	10.18	23.32	20.65	33.50	30.83	58.71	48.71	-25.21	-17.88
3	1.07925	10.27	18.13	17.63	28.40	27.90	56.00	46.00	-27.60	-18.10
4	1.79925	10.29	18.49	18.17	28.78	28.46	56.00	46.00	-27.22	-17.54
5	2.51925	10.32	16.58	15.74	26.90	26.06	56.00	46.00	-29.10	-19.94
6	13.56000	10.52	3.39	1.23	13.91	11.75	60.00	50.00	-46.09	-38.25

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

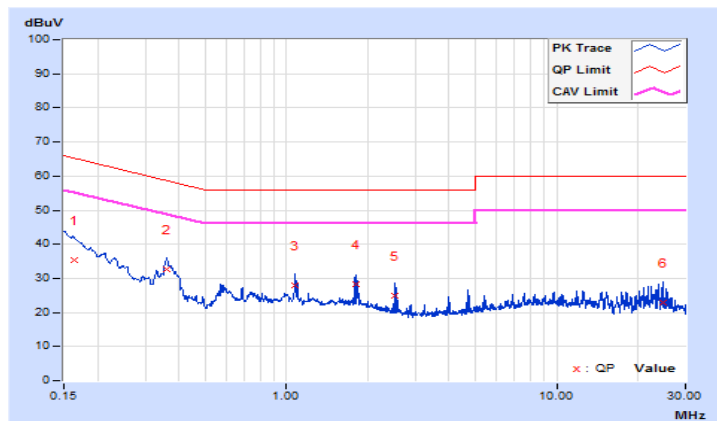


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16350	10.07	25.22	6.98	35.29	17.05	65.28	55.28	-29.99	-38.23
2	0.36101	10.16	22.64	17.51	32.80	27.67	58.71	48.71	-25.91	-21.04
3	1.07925	10.26	17.58	16.43	27.84	26.69	56.00	46.00	-28.16	-19.31
4	1.79925	10.29	18.07	16.99	28.36	27.28	56.00	46.00	-27.64	-18.72
5	2.51925	10.33	14.63	13.88	24.96	24.21	56.00	46.00	-31.04	-21.79
6	24.65925	10.77	12.27	10.90	23.04	21.67	60.00	50.00	-36.96	-28.33

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

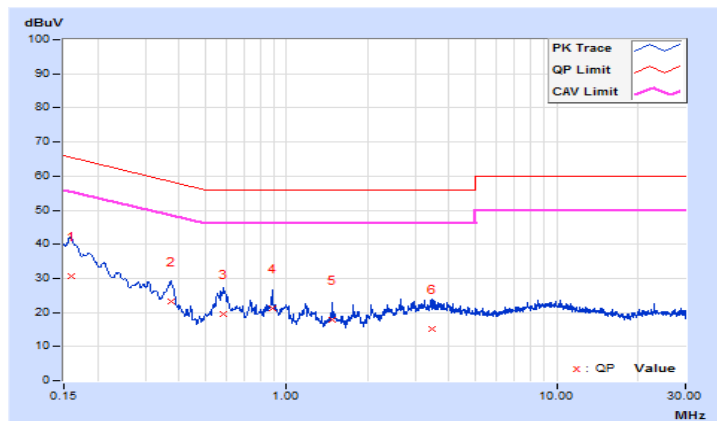


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15900	10.09	20.47	2.25	30.56	12.34	65.52	55.52	-34.96	-43.18
2	0.37263	10.18	12.95	2.32	23.13	12.50	58.44	48.44	-35.31	-35.94
3	0.58425	10.21	9.25	3.89	19.46	14.10	56.00	46.00	-36.54	-31.90
4	0.88575	10.25	10.81	7.98	21.06	18.23	56.00	46.00	-34.94	-27.77
5	1.47470	10.28	7.56	4.73	17.84	15.01	56.00	46.00	-38.16	-30.99
6	3.44400	10.36	4.75	1.57	15.11	11.93	56.00	46.00	-40.89	-34.07

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

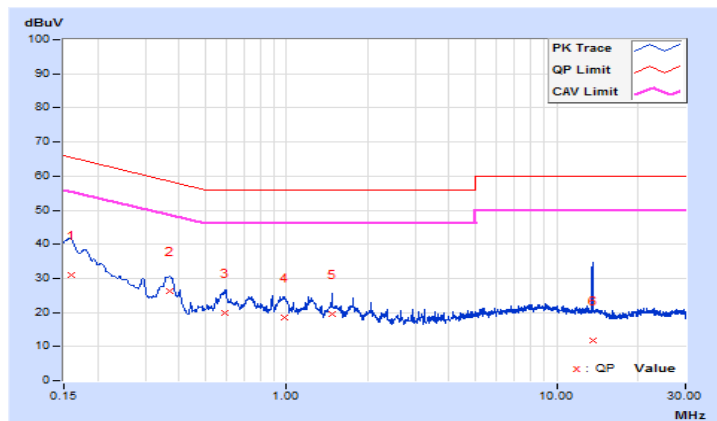


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15900	10.06	20.87	2.38	30.93	12.44	65.52	55.52	-34.59	-43.08
2	0.36969	10.17	16.19	5.16	26.36	15.33	58.51	48.51	-32.15	-33.18
3	0.59100	10.21	9.50	4.73	19.71	14.94	56.00	46.00	-36.29	-31.06
4	0.98700	10.26	8.29	1.39	18.55	11.65	56.00	46.00	-37.45	-34.35
5	1.47470	10.28	9.09	4.90	19.37	15.18	56.00	46.00	-36.63	-30.82
6	13.56000	10.68	1.16	1.02	11.84	11.70	60.00	50.00	-48.16	-38.30

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

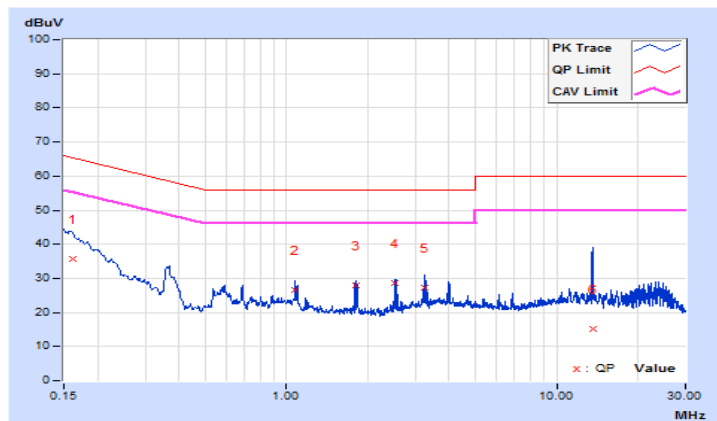


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16125	10.10	25.51	6.34	35.61	16.44	65.40	55.40	-29.79	-38.96
2	1.07925	10.27	16.22	15.28	26.49	25.55	56.00	46.00	-29.51	-20.45
3	1.79925	10.29	17.54	17.04	27.83	27.33	56.00	46.00	-28.17	-18.67
4	2.51925	10.32	18.18	17.67	28.50	27.99	56.00	46.00	-27.50	-18.01
5	3.24150	10.35	16.78	15.19	27.13	25.54	56.00	46.00	-28.87	-20.46
6	13.56225	10.52	4.59	1.21	15.11	11.73	60.00	50.00	-44.89	-38.27

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

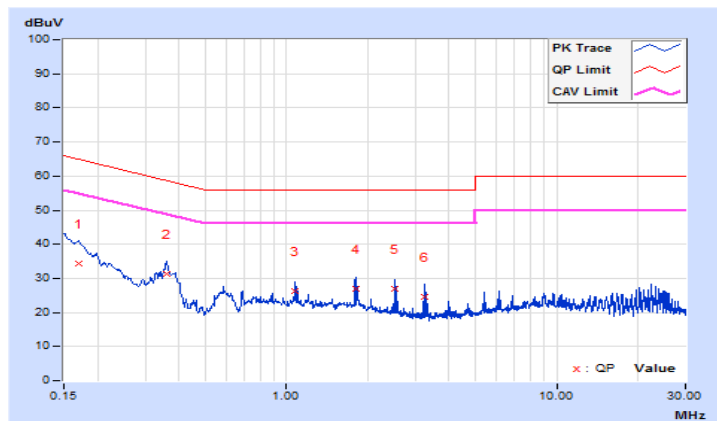


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16966	10.07	24.24	7.92	34.31	17.99	64.98	54.98	-30.67	-36.99
2	0.35911	10.16	21.07	15.76	31.23	25.92	58.75	48.75	-27.52	-22.83
3	1.07925	10.26	15.96	14.47	26.22	24.73	56.00	46.00	-29.78	-21.27
4	1.80150	10.29	16.61	15.72	26.90	26.01	56.00	46.00	-29.10	-19.99
5	2.51925	10.33	16.77	16.36	27.10	26.69	56.00	46.00	-28.90	-19.31
6	3.23925	10.36	14.29	13.74	24.65	24.10	56.00	46.00	-31.35	-21.90

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



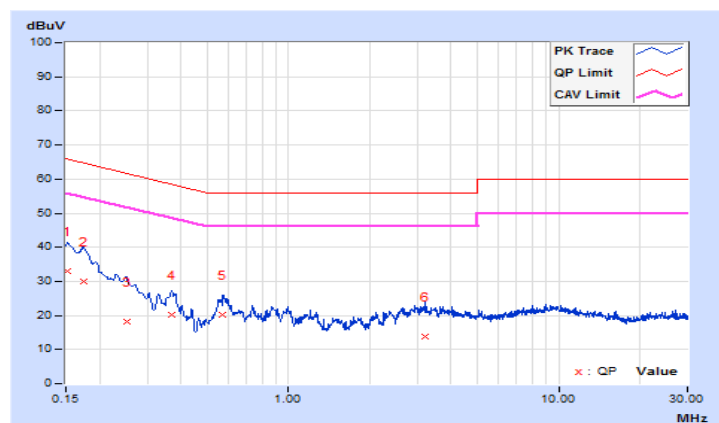
Standby Mode

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15225	10.09	23.03	6.31	33.12	16.40	65.88	55.88	-32.76	-39.48
2	0.17374	10.11	19.73	1.05	29.84	11.16	64.78	54.78	-34.94	-43.62
3	0.25125	10.15	7.92	2.33	18.07	12.48	61.72	51.72	-43.65	-39.24
4	0.37050	10.18	9.95	1.21	20.13	11.39	58.49	48.49	-38.36	-37.10
5	0.57305	10.21	9.98	3.77	20.19	13.98	56.00	46.00	-35.81	-32.02
6	3.21450	10.35	3.34	1.77	13.69	12.12	56.00	46.00	-42.31	-33.88

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

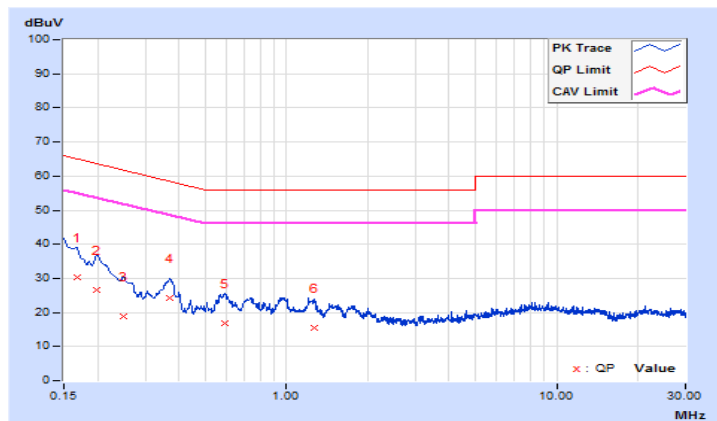


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16800	10.07	20.09	4.33	30.16	14.40	65.06	55.06	-34.90	-40.66
2	0.19826	10.10	16.47	2.54	26.57	12.64	63.68	53.68	-37.11	-41.04
3	0.24879	10.12	8.84	1.33	18.96	11.45	61.80	51.80	-42.84	-40.35
4	0.36872	10.17	14.07	2.43	24.24	12.60	58.53	48.53	-34.29	-35.93
5	0.58838	10.21	6.75	2.17	16.96	12.38	56.00	46.00	-39.04	-33.62
6	1.27500	10.27	5.25	1.97	15.52	12.24	56.00	46.00	-40.48	-33.76

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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