

FCC Test Report

Report No.: RF200617C01

FCC ID: K7SWIZ006

Test Model: WIZ006

Received Date: Jun. 17, 2020

Test Date: Jun. 24 ~ Jun. 29, 2020

Issued Date: Jul. 16, 2020

Applicant: Belkin International, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200617C01	Original release	Jul. 16, 2020

1 Certificate of Conformity

Product: BOOST ↑ CHARGE™ True Freedom Pro Wireless Charger

Brand: belkin

Test Model: WIZ006

Sample Status: Engineering sample

Applicant: Belkin International, Inc.

Test Date: Jun. 24 ~ Jun. 29, 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 : Celine Chou , **Date:** Jul. 16, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Jul. 16, 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 -7.02dB at 0.38460MHz.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -7.0dB at 86.24MHz

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) (±)
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™ True Freedom Pro Wireless Charger
Brand	belkin
Test Model	WIZ006
Sample Status	Engineering sample
Power Supply Rating	15Vdc (Adapter)
Modulation Type	FSK
Operating Frequency	127.7 kHz
Antenna Type	Coil antenna
Field Strength	83.4dBuV/m
Dimension	153.816cm ² (Length = 174mm, width = 88.4mm)
Maximum Power Output	Max power of 10W per coil or 20W total when using two coils
Accessory Device	Adapter
Data Cable Supplied	NA

Note: The EUT uses following adapter.

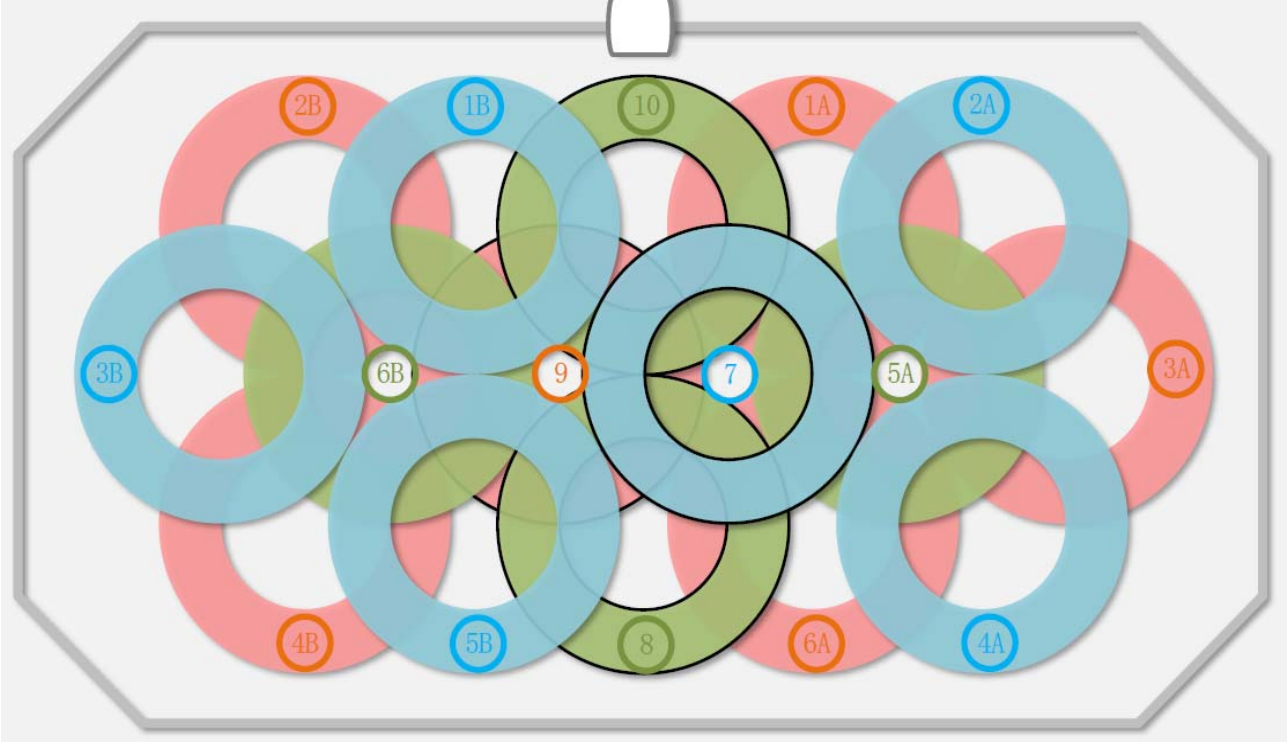
Brand	belkin
Model	DSA-30PFL-12 FUS 150200
Input Power	100-240Vac, 50/60Hz, 0.8A
Output Power	15Vdc, 2.0A, 30W
Power Line	1.17m DC cable without core attached on adapter

3.2 Description of Test Modes

1 channel is provided to this EUT

Channel	Freq. (kHz)
1	127.7

The product contain 16 coils, and can charge maxima 2 client devices simultaneously. We has been pre-tested every coil of EUT and chosen seven modes for final test, please see as below for more details.



Pre-test Mode						
Coil Position	Coil number	Test Freq.	Antenna polarity			Possible With coils
			Parellel (dBuV/m @3m)	Perpendicular (dBuV/m @3m)	Ground-Parallel (dBuV/m @3m)	
First	3B	127.7 kHz	78.5	73.4	72.4	6B & 2B & 4B
	1B		69.1	66.8	66.1	6B & 10 & 9 & 2B
	5B		73.3	69.8	66.6	6B & 8 & 9 & 4B
	7		65.2	63.0	62.7	10 & 5 & 8 & 9 & 1A & 6A
	2A		75.3	73.5	73.1	5A & 1A & 3A
	4A		73.6	71.7	70.5	5A & 6A & 3A
Middle	6B		52.5	49.5	50.5	3B & 1B & 5B & 2B & 4B & 9
	10		74.7	71.3	70.6	1B & 7 & 9 & 1A
	8		68.2	64.5	65.8	5B & 7 & 9 & 6A
	5A		56.3	55.3	55.7	7 & 2A & 4A & 1A & 6A & 3A
Lower	2B		69.5	67.7	66.3	3B & 1B & 6B
	4B		69.7	67.3	66.8	3B & 5B & 6B
	9		58.7	56.5	55.8	1B & 5B & 7 & 6B & 10 & 8
	1A		72.3	70.1	69.4	7 & 2A & 4A & 1A & 6A & 3A
	6A		68.1	65.4	66.3	7 & 4A & 8 & 5A
	3A		78.4	76.3	74.3	2A & 4A & 5A
Standby				21.6	16.5	20.0

7 final test mode will record in the report.		Test with coils
1. Left area select the one coil with maximum field strength for testing.		3B
2. Right area select the one coil with maximum field strength for testing.		3A
3. Choose one coil from Left area and one coil from right area to works simultaneously.		3B with 3A
4. Left area select the two coils with maximum field strength for testing.		3B+4B
5. Right area select the two coils with maximum field strength for testing		3A+2A
6. Choose two coils from Left area and two coils from right area to works simultaneously.		3B+4B with 3A+2A
7. Standby mode.		-

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO		DESCRIPTION	TEST WITH COILS
	RE<1G	PLC		
A	√	√	Charging Mode (EUT wireless charging to one iPhone)	3B
B	√	√	Charging Mode (EUT wireless charging to one iPhone)	3A
C	√	√	Charging Mode (EUT wireless charging to two iPhone)	3B with 3A
D	√	√	Charging Mode (EUT wireless charging to one iPhone)	3B+4B
E	√	√	Charging Mode (EUT wireless charging to one iPhone)	3A+2A
F	√	√	Charging Mode (EUT wireless charging to two iPhone)	3B+4B with 3A+2A
G	√	√	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	1
B	1	1
C	1	1
D	1	1
E	1	1
F	1	1
G	1	1

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	1
B	1	1
C	1	1
D	1	1
E	1	1
F	1	1
G	1	1

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE<1G	23 deg. C, 66% RH	120Vac, 60Hz	Titan Hsu Adair Peng
	23 deg. C, 67% RH		
PLC	25 deg. C, 66% RH	120Vac, 60Hz	Jones Chang

3.3 Description of Support Units

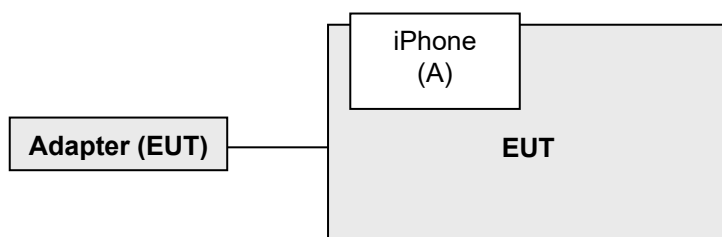
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	iPhone	APPLE	A2215	NA	NA	Provided by client
B.	iPhone	APPLE	A1897	NA	NA	Provided by client

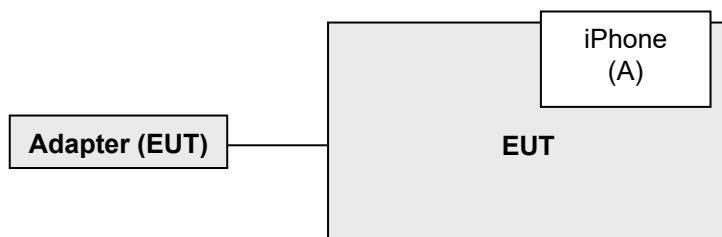
3.3.1 Configuration of System under Test

Charging Mode:

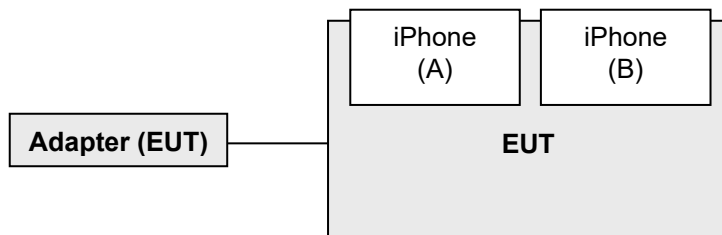
Test Mode A, D



Test Mode B, E



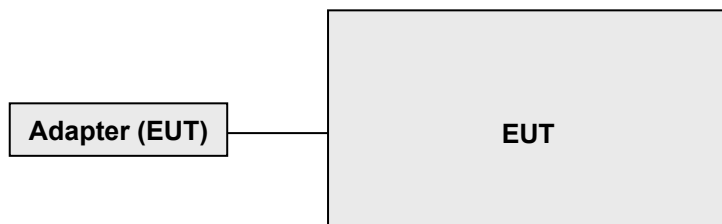
Test Mode C, F



Note: For all test configurations please refer to operation description exhibit.

Standby Mode:

Test Mode G



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
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 09, 2020	Jun. 08, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	9120D	209	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 20, 2019	Aug. 19, 2020
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. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-S M-8000	Cable-CH3-03 (309224+170907)	Aug. 20, 2019	Aug. 19, 2020
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:

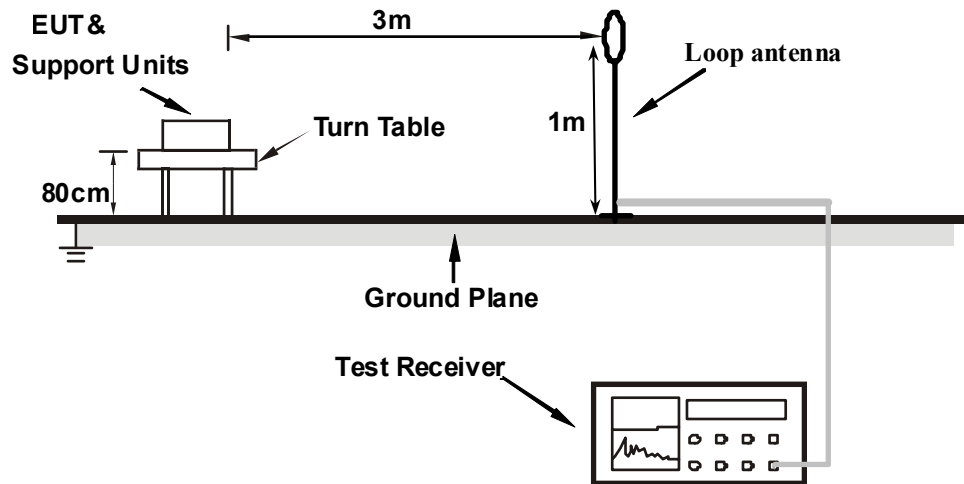
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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

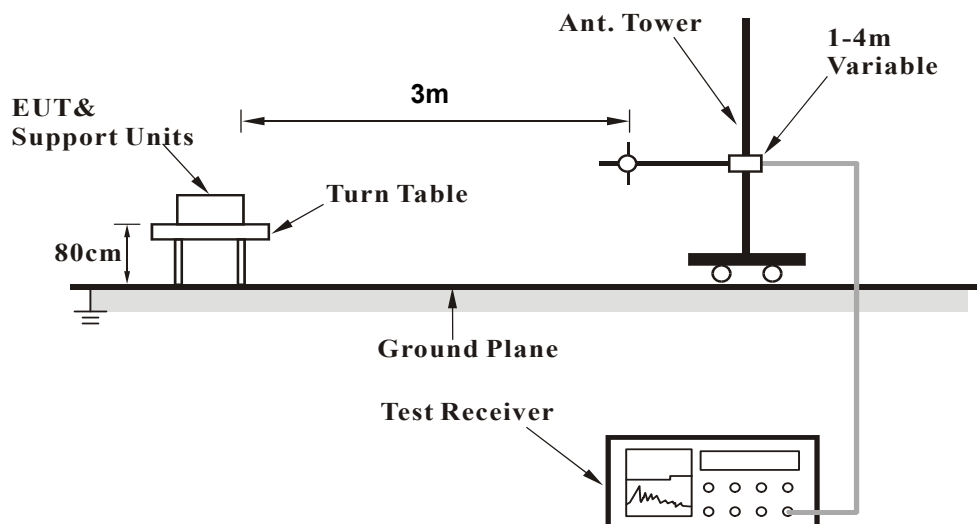
No deviation.

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, B, C, D, E, F

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

Standby Mode:

Test Mode G

- The EUT powered by adapter.

4.1.7 Test Results

Below 30MHz Data:

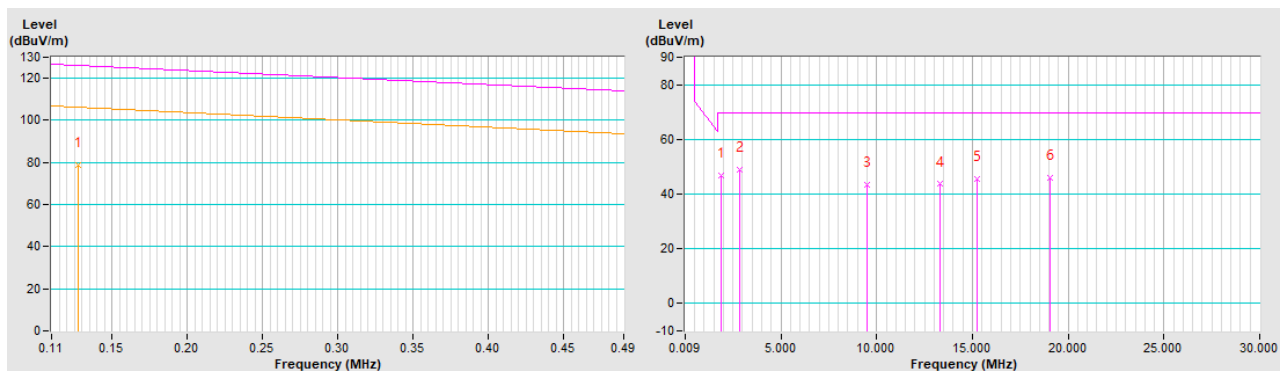
Charging Mode

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

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	*0.1277	78.5 AV	105.5	-27.0	1.00 V	77	59.4	19.1
2	1.8780	46.9 QP	69.5	-22.6	1.00 V	91	27.0	19.9
3	2.8342	48.9 QP	69.5	-20.6	1.00 V	103	29.0	19.9
4	9.5279	43.5 QP	69.5	-26.0	1.00 V	214	22.0	21.5
5	13.3094	43.6 QP	69.5	-25.9	1.00 V	8	21.8	21.8
6	15.2218	45.6 QP	69.5	-23.9	1.00 V	186	23.7	21.9
7	19.0468	45.8 QP	69.5	-23.7	1.00 V	284	23.8	22.0

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

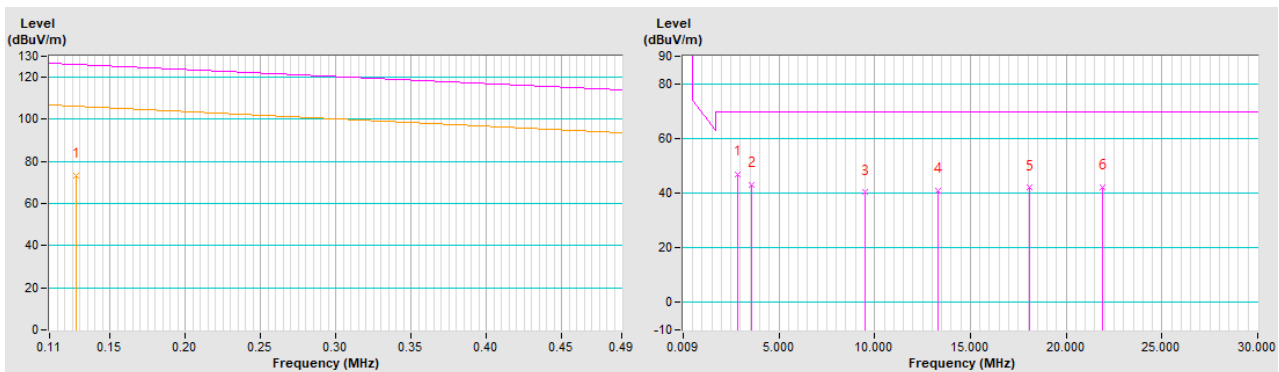


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	A		

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	*0.1277	73.4 AV	105.5	-32.1	1.00 V	159	54.3	19.1
2	2.8342	47.0 QP	69.5	-22.5	1.00 V	275	27.1	19.9
3	3.5731	42.9 QP	69.5	-26.6	1.00 V	217	22.9	20.0
4	9.5279	40.2 QP	69.5	-29.3	1.00 V	80	18.7	21.5
5	13.3094	40.9 QP	69.5	-28.6	1.00 V	219	19.1	21.8
6	18.0905	41.9 QP	69.5	-27.6	1.00 V	76	19.9	22.0
7	21.9155	42.3 QP	69.5	-27.2	1.00 V	277	20.2	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



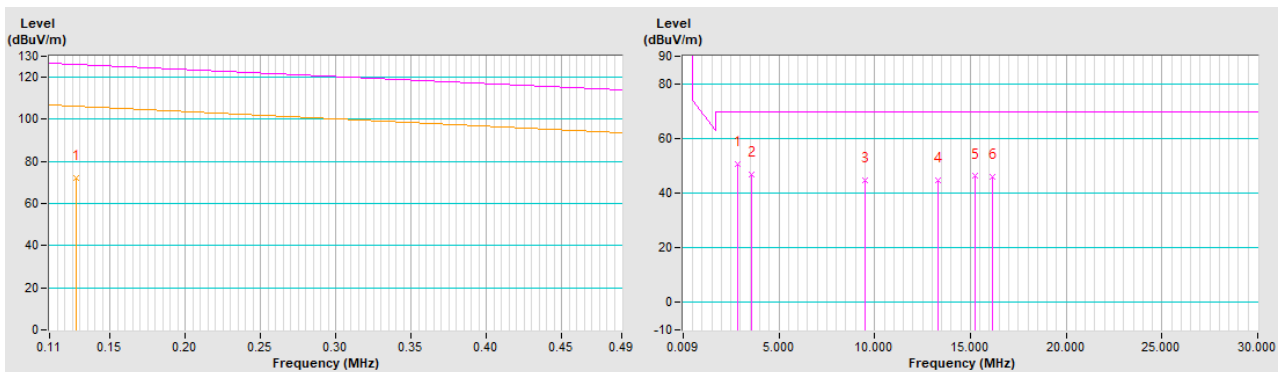
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	A		

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	*0.1277	72.4 AV	105.5	-33.1	1.00 V	256	53.3	19.1
2	2.8342	50.7 QP	69.5	-18.8	1.00 V	174	30.8	19.9
3	3.5731	46.6 QP	69.5	-22.9	1.00 V	44	26.6	20.0
4	9.5279	44.7 QP	69.5	-24.8	1.00 V	325	23.2	21.5
5	13.3094	44.5 QP	69.5	-25.0	1.00 V	237	22.7	21.8
6	15.2218	46.1 QP	69.5	-23.4	1.00 V	112	24.2	21.9
7	16.1781	45.9 QP	69.5	-23.6	1.00 V	333	24.0	21.9

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

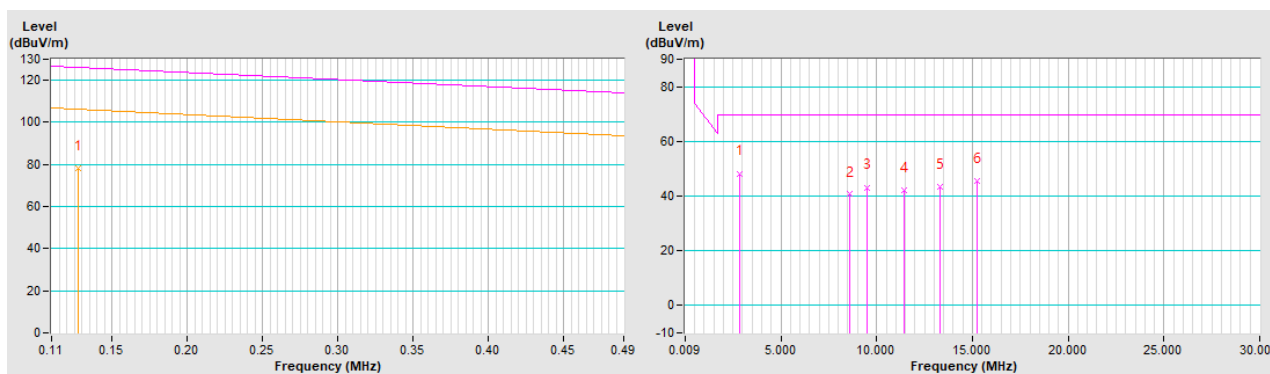


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1277	78.4 AV	105.5	-27.1	1.00 V	263	59.3	19.1
2	2.8342	48.3 QP	69.5	-21.2	1.00 V	6	28.4	19.9
3	8.5716	40.6 QP	69.5	-28.9	1.00 V	344	19.4	21.2
4	9.5279	43.2 QP	69.5	-26.3	1.00 V	24	21.7	21.5
5	11.4404	42.0 QP	69.5	-27.5	1.00 V	166	20.3	21.7
6	13.3094	43.3 QP	69.5	-26.2	1.00 V	344	21.5	21.8
7	15.2218	45.3 QP	69.5	-24.2	1.00 V	115	23.4	21.9

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

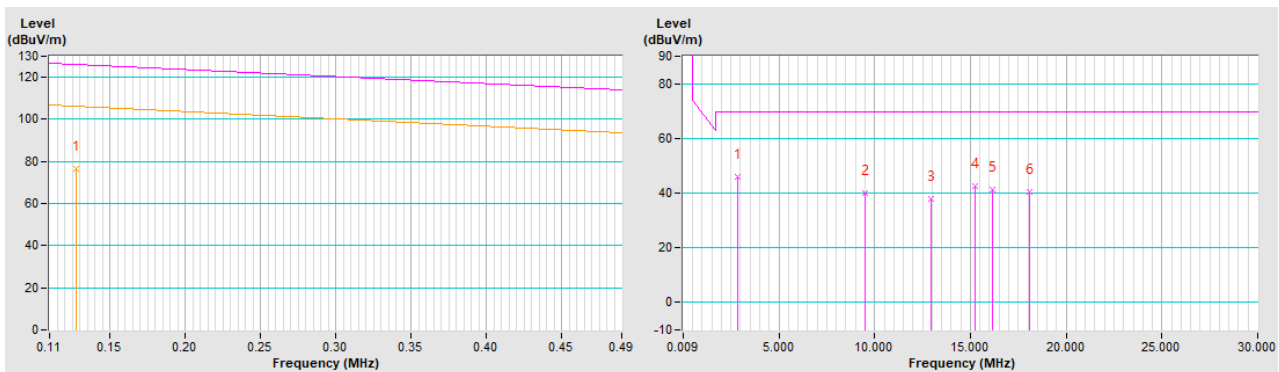


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1277	76.3 AV	105.5	-29.2	1.00 V	156	57.2	19.1
2	2.8342	45.8 QP	69.5	-23.7	1.00 V	89	25.9	19.9
3	9.5279	40.2 QP	69.5	-29.3	1.00 V	198	18.7	21.5
4	12.9616	38.0 QP	69.5	-31.5	1.00 V	5	16.2	21.8
5	15.2218	42.7 QP	69.5	-26.8	1.00 V	152	20.8	21.9
6	16.1781	41.2 QP	69.5	-28.3	1.00 V	119	19.3	21.9
7	18.0905	40.5 QP	69.5	-29.0	1.00 V	27	18.5	22.0

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



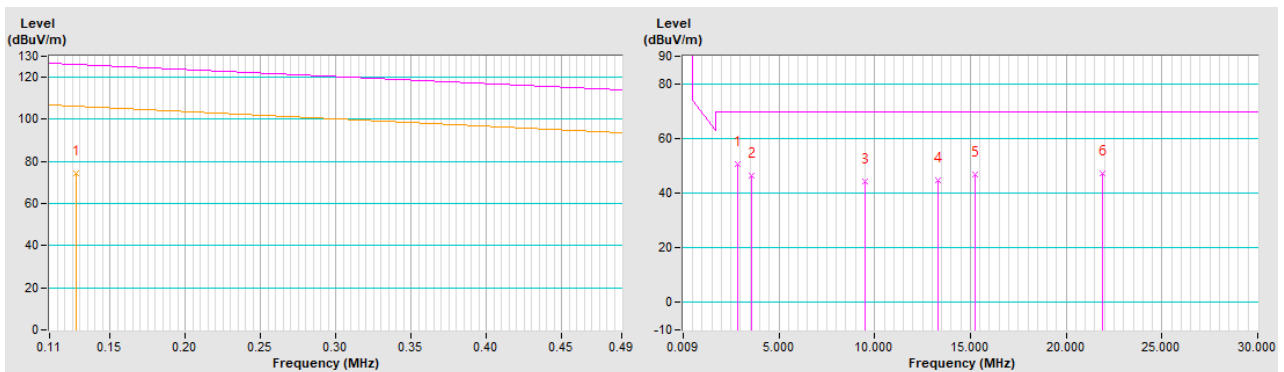
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	B		

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	*0.1277	74.3 AV	105.5	-31.2	1.00 V	153	55.2	19.1
2	2.8342	50.5 QP	69.5	-19.0	1.00 V	298	30.6	19.9
3	3.5731	46.2 QP	69.5	-23.3	1.00 V	263	26.2	20.0
4	9.5279	44.4 QP	69.5	-25.1	1.00 V	72	22.9	21.5
5	13.3094	44.5 QP	69.5	-25.0	1.00 V	25	22.7	21.8
6	15.2218	46.6 QP	69.5	-22.9	1.00 V	181	24.7	21.9
7	21.9155	47.3 QP	69.5	-22.2	1.00 V	251	25.2	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



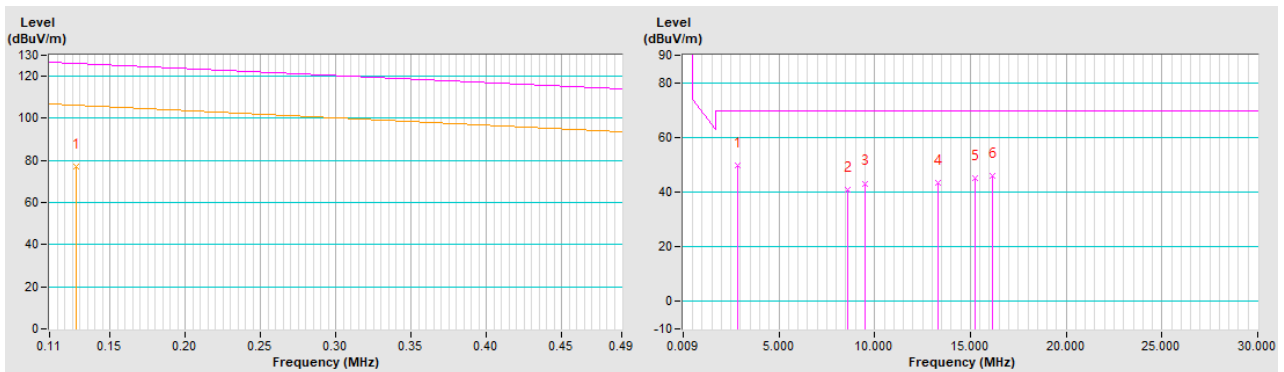
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.1277	77.0 AV	105.5	-28.5	1.00 V	276	57.9	19.1
2	2.8342	49.9 QP	69.5	-19.6	1.00 V	2	30.0	19.9
3	8.5716	40.7 QP	69.5	-28.8	1.00 V	72	19.5	21.2
4	9.5279	43.2 QP	69.5	-26.3	1.00 V	43	21.7	21.5
5	13.3094	43.4 QP	69.5	-26.1	1.00 V	355	21.6	21.8
6	15.2218	45.0 QP	69.5	-24.5	1.00 V	330	23.1	21.9
7	16.1781	45.9 QP	69.5	-23.6	1.00 V	180	24.0	21.9

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

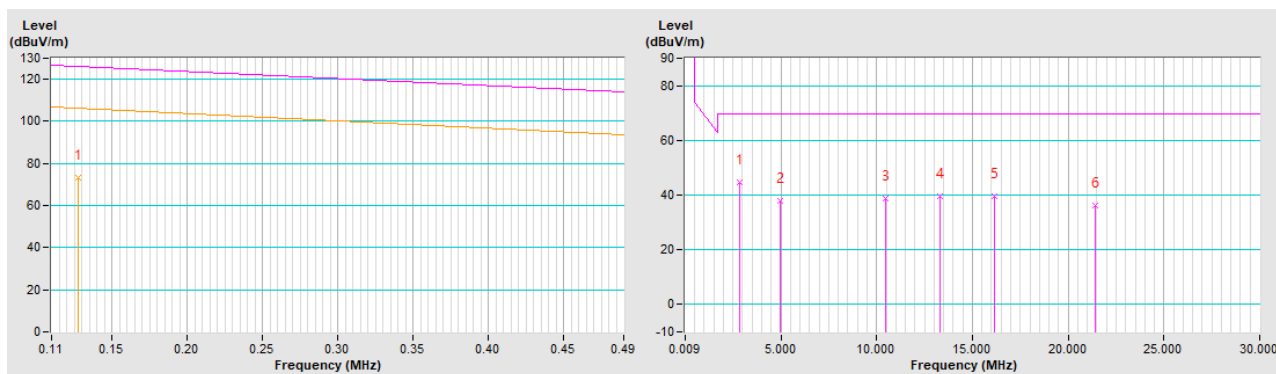


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.1277	73.5 AV	105.5	-32.0	1.00 V	344	54.4	19.1
2	2.8342	44.8 QP	69.5	-24.7	1.00 V	157	24.9	19.9
3	4.9640	37.7 QP	69.5	-31.8	1.00 V	220	17.6	20.1
4	10.4841	38.6 QP	69.5	-30.9	1.00 V	355	16.9	21.7
5	13.3094	39.4 QP	69.5	-30.1	1.00 V	186	17.6	21.8
6	16.1781	39.5 QP	69.5	-30.0	1.00 V	2	17.6	21.9
7	21.4374	36.0 QP	69.5	-33.5	1.00 V	210	13.9	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



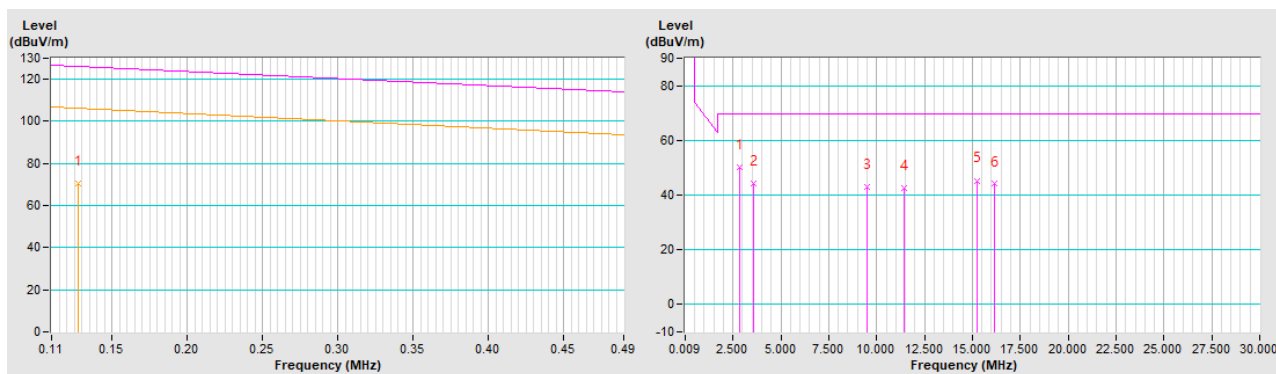
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	C		

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	*0.1277	70.5 AV	105.5	-35.0	1.00 V	80	51.4	19.1
2	2.8342	50.1 QP	69.5	-19.4	1.00 V	131	30.2	19.9
3	3.5731	44.4 QP	69.5	-25.1	1.00 V	9	24.4	20.0
4	9.5279	43.1 QP	69.5	-26.4	1.00 V	351	21.6	21.5
5	11.4404	42.5 QP	69.5	-27.0	1.00 V	39	20.8	21.7
6	15.2218	45.3 QP	69.5	-24.2	1.00 V	105	23.4	21.9
7	16.1781	44.0 QP	69.5	-25.5	1.00 V	266	22.1	21.9

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



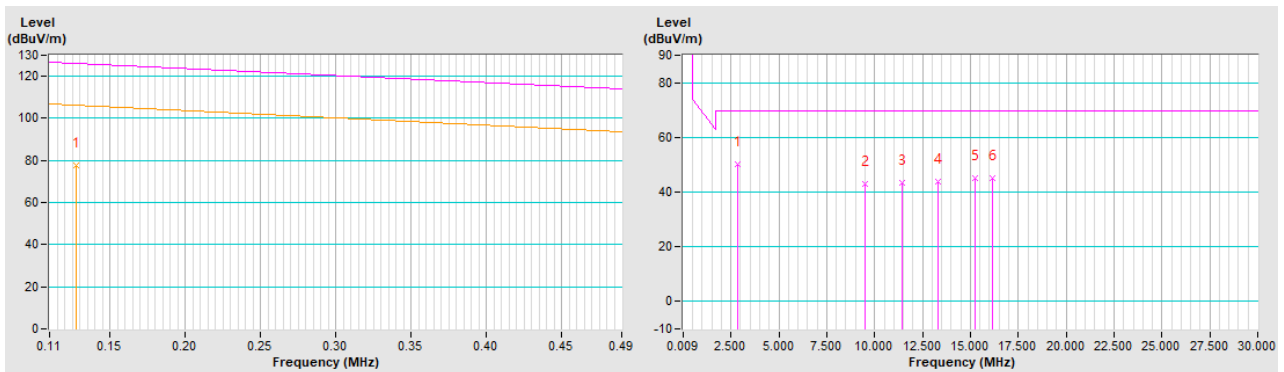
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1277	77.6 AV	105.5	-27.9	1.00 V	284	58.5	19.1
2	2.8342	50.1 QP	69.5	-19.4	1.00 V	50	30.2	19.9
3	9.5279	43.1 QP	69.5	-26.4	1.00 V	3	21.6	21.5
4	11.4404	43.4 QP	69.5	-26.1	1.00 V	252	21.7	21.7
5	13.3094	43.7 QP	69.5	-25.8	1.00 V	95	21.9	21.8
6	15.2218	45.2 QP	69.5	-24.3	1.00 V	254	23.3	21.9
7	16.1781	44.9 QP	69.5	-24.6	1.00 V	304	23.0	21.9

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



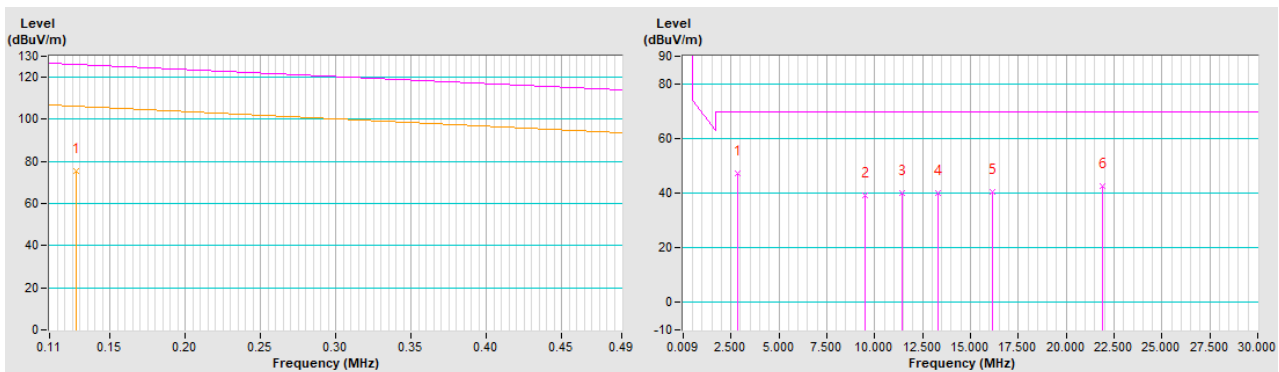
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1277	75.5 AV	105.5	-30.0	1.00 V	180	56.4	19.1
2	2.8342	47.4 QP	69.5	-22.1	1.00 V	249	27.5	19.9
3	9.5279	39.0 QP	69.5	-30.5	1.00 V	291	17.5	21.5
4	11.4404	40.2 QP	69.5	-29.3	1.00 V	20	18.5	21.7
5	13.3094	39.9 QP	69.5	-29.6	1.00 V	215	18.1	21.8
6	16.1781	40.4 QP	69.5	-29.1	1.00 V	4	18.5	21.9
7	21.9155	42.5 QP	69.5	-27.0	1.00 V	274	20.4	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



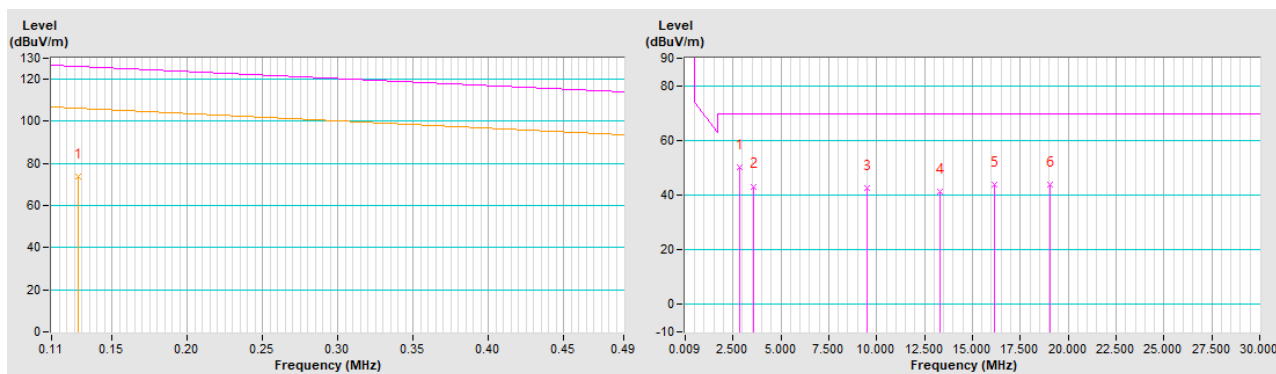
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	D		

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	*0.1277	73.8 AV	105.5	-31.7	1.00 V	279	54.7	19.1
2	2.8342	50.1 QP	69.5	-19.4	1.00 V	170	30.2	19.9
3	3.5731	43.2 QP	69.5	-26.3	1.00 V	15	23.2	20.0
4	9.5279	42.4 QP	69.5	-27.1	1.00 V	90	20.9	21.5
5	13.3094	41.1 QP	69.5	-28.4	1.00 V	33	19.3	21.8
6	16.1781	43.9 QP	69.5	-25.6	1.00 V	3	22.0	21.9
7	19.0468	43.9 QP	69.5	-25.6	1.00 V	177	21.9	22.0

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

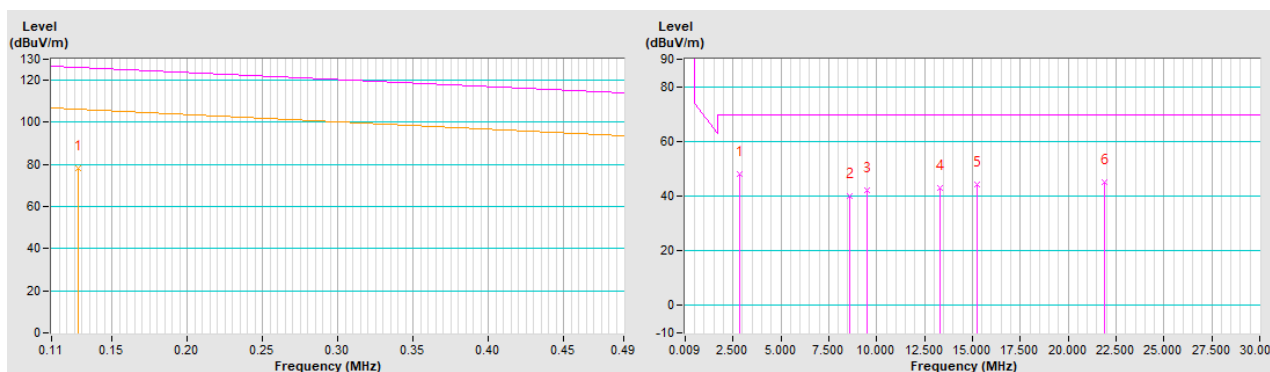


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	E		

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	*0.1277	78.0 AV	105.5	-27.5	1.00 V	289	58.9	19.1
2	2.8342	47.9 QP	69.5	-21.6	1.00 V	107	28.0	19.9
3	8.5716	40.1 QP	69.5	-29.4	1.00 V	60	18.9	21.2
4	9.5279	42.3 QP	69.5	-27.2	1.00 V	267	20.8	21.5
5	13.3094	42.8 QP	69.5	-26.7	1.00 V	129	21.0	21.8
6	15.2218	44.3 QP	69.5	-25.2	1.00 V	247	22.4	21.9
7	21.9155	44.9 QP	69.5	-24.6	1.00 V	319	22.8	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

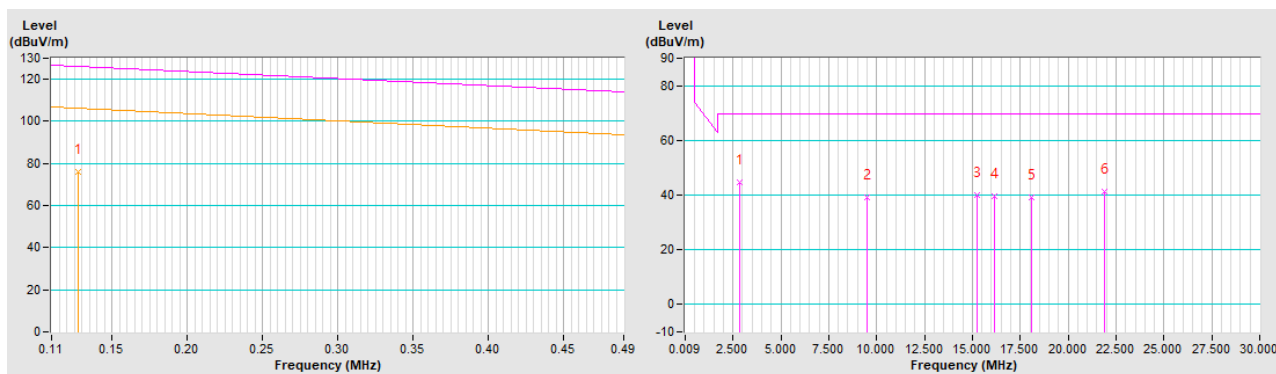


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	E		

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	*0.1277	76.2 AV	105.5	-29.3	1.00 V	357	57.1	19.1
2	2.8342	44.6 QP	69.5	-24.9	1.00 V	342	24.7	19.9
3	9.5279	39.1 QP	69.5	-30.4	1.00 V	17	17.6	21.5
4	15.2218	40.1 QP	69.5	-29.4	1.00 V	240	18.2	21.9
5	16.1781	39.7 QP	69.5	-29.8	1.00 V	123	17.8	21.9
6	18.0905	39.0 QP	69.5	-30.5	1.00 V	247	17.0	22.0
7	21.9155	41.3 QP	69.5	-28.2	1.00 V	238	19.2	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



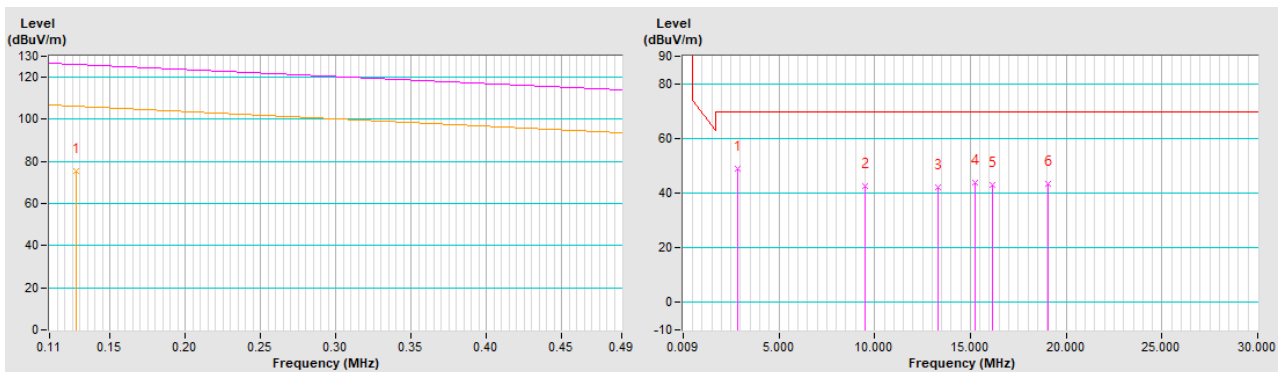
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	E		

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	*0.1277	75.6 AV	105.5	-29.9	1.00 V	285	56.5	19.1
2	2.8342	48.7 QP	69.5	-20.8	1.00 V	99	28.8	19.9
3	9.5279	42.4 QP	69.5	-27.1	1.00 V	355	20.9	21.5
4	13.3094	42.3 QP	69.5	-27.2	1.00 V	12	20.5	21.8
5	15.2218	43.8 QP	69.5	-25.7	1.00 V	158	21.9	21.9
6	16.1781	43.1 QP	69.5	-26.4	1.00 V	9	21.2	21.9
7	19.0468	43.3 QP	69.5	-26.2	1.00 V	144	21.3	22.0

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

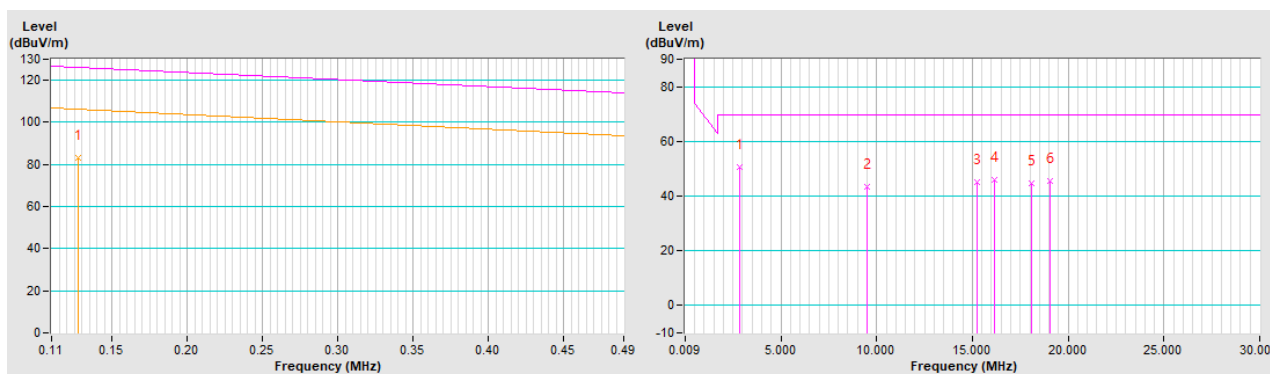


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	F		

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	*0.1277	83.4 AV	105.5	-22.1	1.00 V	274	64.3	19.1
2	2.8342	50.5 QP	69.5	-19.0	1.00 V	12	30.6	19.9
3	9.5279	43.6 QP	69.5	-25.9	1.00 V	343	22.1	21.5
4	15.2218	45.2 QP	69.5	-24.3	1.00 V	102	23.3	21.9
5	16.1781	45.8 QP	69.5	-23.7	1.00 V	87	23.9	21.9
6	18.0905	44.7 QP	69.5	-24.8	1.00 V	212	22.7	22.0
7	19.0468	45.4 QP	69.5	-24.1	1.00 V	99	23.4	22.0

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

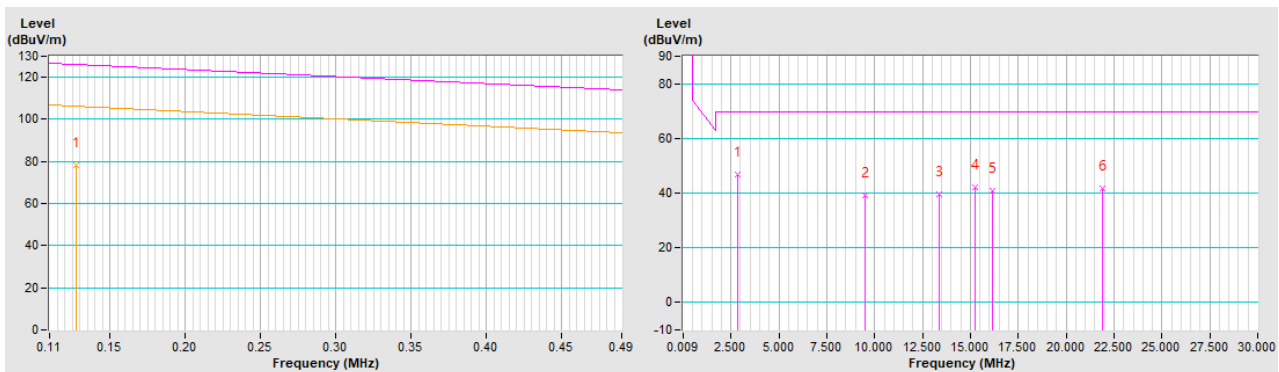


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	F		

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	*0.1277	78.3 AV	105.5	-27.2	1.00 V	3	59.2	19.1
2	2.8342	46.6 QP	69.5	-22.9	1.00 V	244	26.7	19.9
3	9.5279	39.3 QP	69.5	-30.2	1.00 V	355	17.8	21.5
4	13.3528	39.7 QP	69.5	-29.8	1.00 V	275	17.9	21.8
5	15.2218	42.0 QP	69.5	-27.5	1.00 V	37	20.1	21.9
6	16.1781	40.9 QP	69.5	-28.6	1.00 V	11	19.0	21.9
7	21.9155	41.8 QP	69.5	-27.7	1.00 V	167	19.7	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



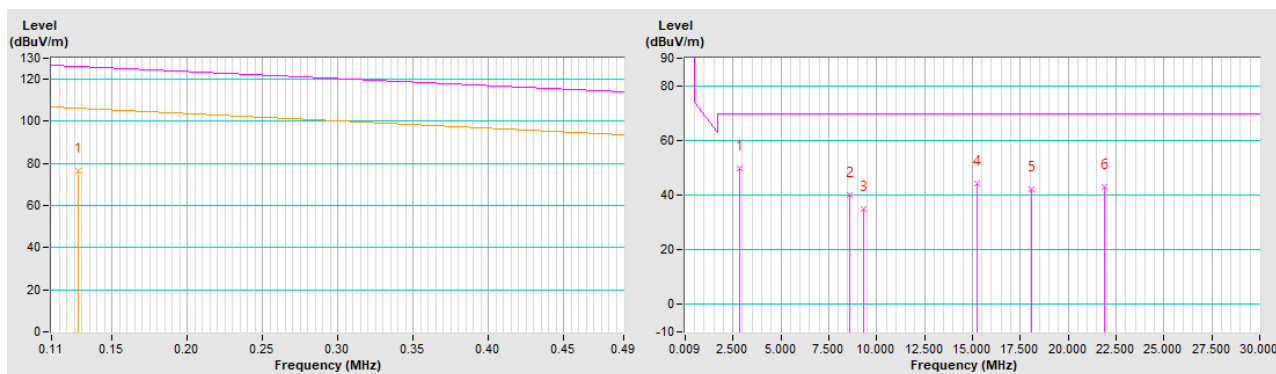
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	F		

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	*0.1277	76.4 AV	105.5	-29.1	1.00 V	284	57.3	19.1
2	2.8342	49.7 QP	69.5	-19.8	1.00 V	97	29.8	19.9
3	8.5716	40.1 QP	69.5	-29.4	1.00 V	349	18.9	21.2
4	9.3106	34.8 QP	69.5	-34.7	1.00 V	10	13.3	21.5
5	15.2218	44.3 QP	69.5	-25.2	1.00 V	151	22.4	21.9
6	18.0905	42.3 QP	69.5	-27.2	1.00 V	3	20.3	22.0
7	21.9155	43.0 QP	69.5	-26.5	1.00 V	136	20.9	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



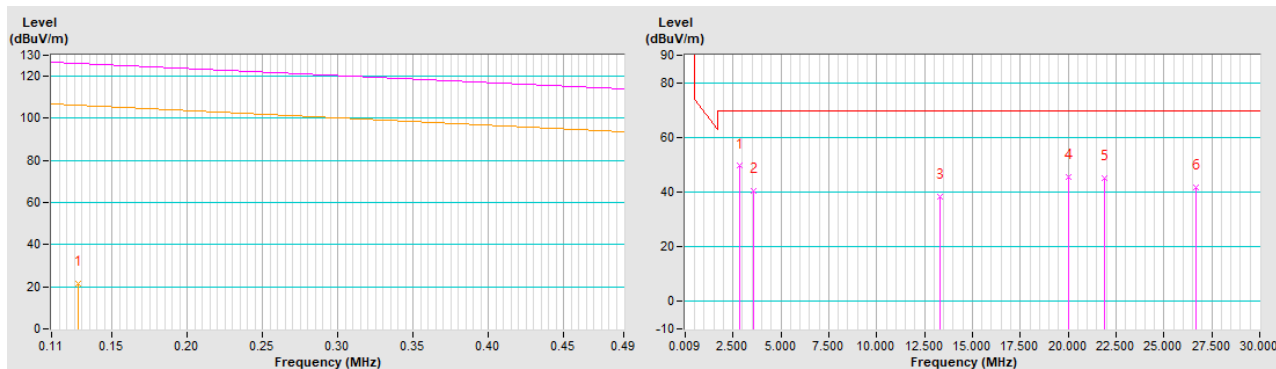
Standby Mode

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

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	*0.1277	21.6 AV	105.5	-83.9	1.00 V	285	2.5	19.1
2	2.8342	49.5 QP	69.5	-20.0	1.00 V	149	29.6	19.9
3	3.5731	40.6 QP	69.5	-28.9	1.00 V	13	20.6	20.0
4	13.3094	38.2 QP	69.5	-31.3	1.00 V	246	16.4	21.8
5	20.0030	45.6 QP	69.5	-23.9	1.00 V	264	23.5	22.1
6	21.9155	45.2 QP	69.5	-24.3	1.00 V	323	23.1	22.1
7	26.6966	41.7 QP	69.5	-27.8	1.00 V	17	19.5	22.2

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

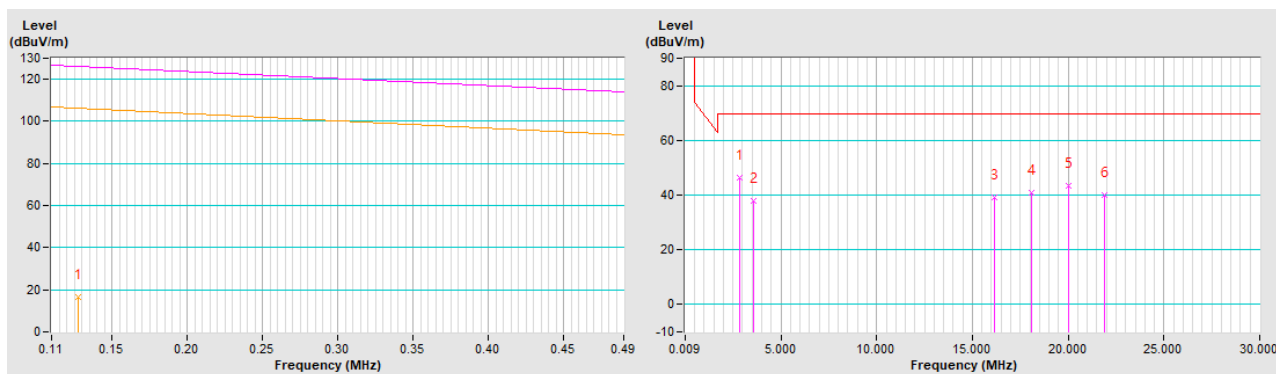


Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	G		

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	*0.1277	16.5 AV	105.5	-89.0	1.00 V	233	-2.6	19.1
2	2.8342	46.5 QP	69.5	-23.0	1.00 V	89	26.6	19.9
3	3.5731	38.0 QP	69.5	-31.5	1.00 V	216	18.0	20.0
4	16.1781	39.1 QP	69.5	-30.4	1.00 V	142	17.2	21.9
5	18.0905	40.7 QP	69.5	-28.8	1.00 V	76	18.7	22.0
6	20.0030	43.2 QP	69.5	-26.3	1.00 V	142	21.1	22.1
7	21.9155	39.8 QP	69.5	-29.7	1.00 V	271	17.7	22.1

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



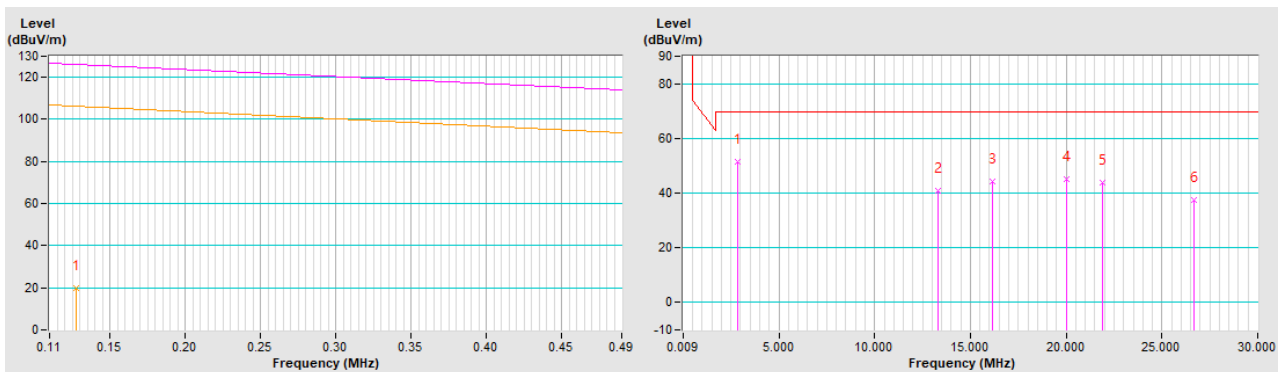
Channel	TX Channel 1	Detector Function	Average (AV) Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	G		

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	*0.1277	20.0 AV	105.5	-85.5	1.00 V	246	0.9	19.1
2	2.8342	51.5 QP	69.5	-18.0	1.00 V	173	31.6	19.9
3	13.3094	40.7 QP	69.5	-28.8	1.00 V	133	18.9	21.8
4	16.1781	44.1 QP	69.5	-25.4	1.00 V	106	22.2	21.9
5	20.0030	45.1 QP	69.5	-24.4	1.00 V	106	23.0	22.1
6	21.9155	44.0 QP	69.5	-25.5	1.00 V	77	21.9	22.1
7	26.6966	37.6 QP	69.5	-31.9	1.00 V	4	15.4	22.2

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
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40



Below 1GHz Data:

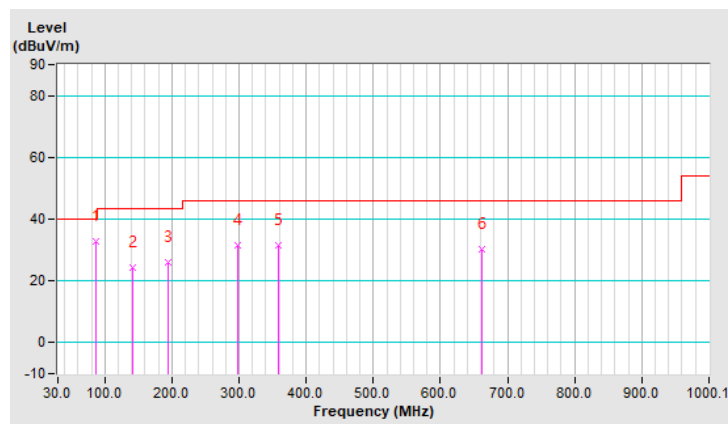
Charging Mode

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	86.24	33.0 QP	40.0	-7.0	2.00 H	185	47.2	-14.2
2	141.07	24.2 QP	43.5	-19.3	1.00 H	60	33.2	-9.0
3	194.50	26.0 QP	43.5	-17.5	1.00 H	99	37.5	-11.5
4	297.13	31.6 QP	46.0	-14.4	1.00 H	98	39.1	-7.5
5	358.99	31.4 QP	46.0	-14.6	1.00 H	79	37.3	-5.9
6	662.67	30.1 QP	46.0	-15.9	1.00 H	64	28.6	1.5

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

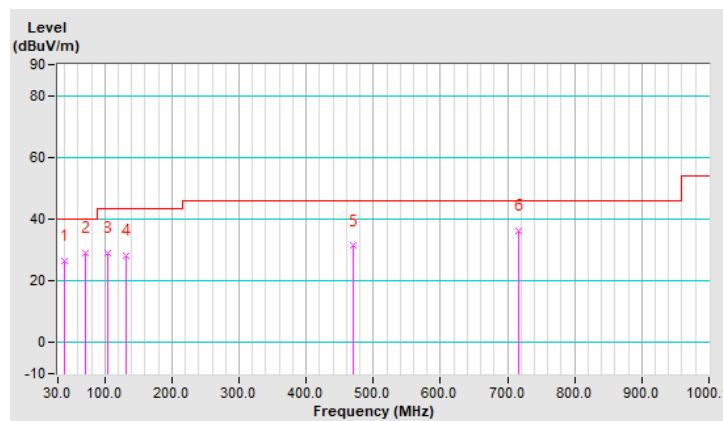


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	A		

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	39.84	26.3 QP	40.0	-13.7	1.00 V	39	35.8	-9.5
2	70.77	29.1 QP	40.0	-10.9	1.50 V	306	40.0	-10.9
3	104.51	29.0 QP	43.5	-14.5	1.00 V	58	41.4	-12.4
4	131.23	28.3 QP	43.5	-15.2	1.00 V	5	38.2	-9.9
5	470.06	31.3 QP	46.0	-14.7	1.00 V	350	33.4	-2.1
6	716.10	36.3 QP	46.0	-9.7	1.00 V	5	34.1	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

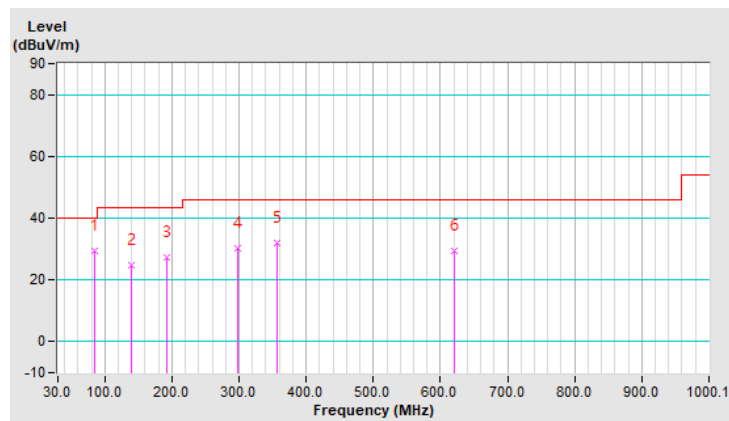


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	84.83	29.4 QP	40.0	-10.6	1.49 H	15	43.3	-13.9
2	139.66	24.6 QP	43.5	-18.9	1.00 H	116	33.7	-9.1
3	191.68	27.3 QP	43.5	-16.2	1.49 H	122	38.6	-11.3
4	297.13	30.3 QP	46.0	-15.7	1.00 H	73	37.8	-7.5
5	357.58	32.1 QP	46.0	-13.9	1.00 H	91	38.1	-6.0
6	620.50	29.3 QP	46.0	-16.7	1.00 H	19	28.0	1.3

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

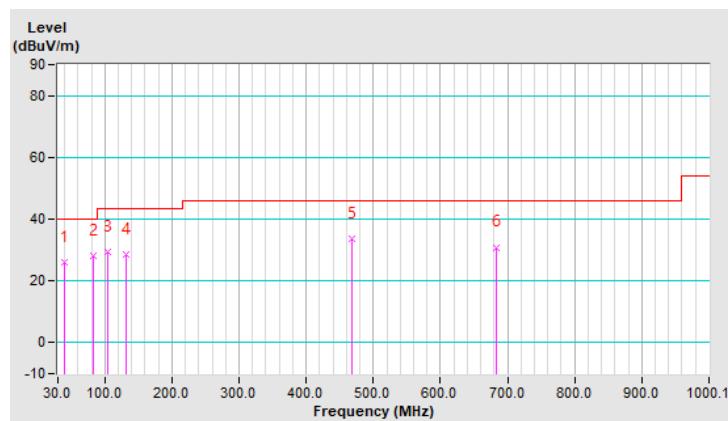


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	39.84	26.0 QP	40.0	-14.0	1.50 V	230	35.5	-9.5
2	82.02	28.0 QP	40.0	-12.0	1.00 V	76	41.6	-13.6
3	104.51	29.3 QP	43.5	-14.2	1.00 V	16	41.7	-12.4
4	131.23	28.4 QP	43.5	-15.1	1.00 V	16	38.3	-9.9
5	468.65	33.5 QP	46.0	-12.5	1.00 V	340	35.6	-2.1
6	682.36	30.9 QP	46.0	-15.1	1.00 V	16	28.9	2.0

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

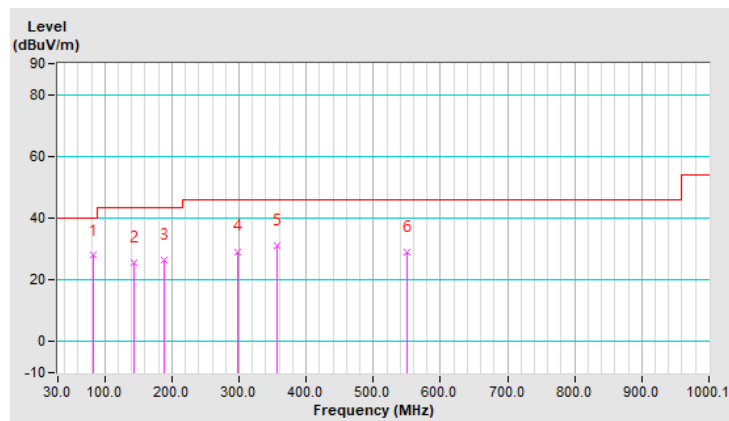


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	83.43	27.9 QP	40.0	-12.1	1.49 H	181	41.7	-13.8
2	142.48	25.7 QP	43.5	-17.8	1.00 H	102	34.6	-8.9
3	187.47	26.6 QP	43.5	-16.9	1.49 H	145	37.4	-10.8
4	297.13	29.2 QP	46.0	-16.8	1.00 H	62	36.7	-7.5
5	357.58	31.1 QP	46.0	-14.9	1.00 H	85	37.1	-6.0
6	550.20	28.8 QP	46.0	-17.2	1.49 H	335	29.3	-0.5

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

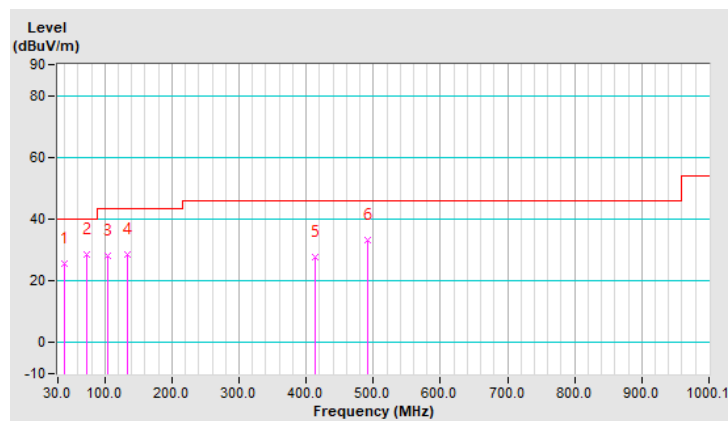


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	39.84	25.7 QP	40.0	-14.3	1.49 V	118	35.2	-9.5
2	72.18	28.5 QP	40.0	-11.5	1.49 V	288	39.8	-11.3
3	104.51	28.2 QP	43.5	-15.3	1.49 V	8	40.6	-12.4
4	134.04	28.4 QP	43.5	-15.1	1.00 V	16	37.9	-9.5
5	412.42	27.7 QP	46.0	-18.3	1.49 V	343	31.9	-4.2
6	492.55	33.3 QP	46.0	-12.7	1.00 V	148	34.9	-1.6

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

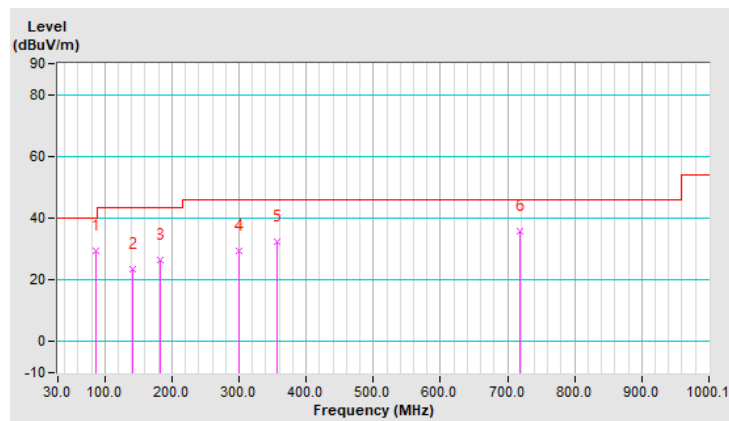


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

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	86.24	29.3 QP	40.0	-10.7	1.50 H	39	43.5	-14.2
2	141.07	23.3 QP	43.5	-20.2	1.00 H	103	32.3	-9.0
3	181.84	26.6 QP	43.5	-16.9	1.50 H	130	36.7	-10.1
4	299.94	29.3 QP	46.0	-16.7	1.00 H	99	36.6	-7.3
5	356.18	32.2 QP	46.0	-13.8	1.00 H	83	38.2	-6.0
6	717.51	35.8 QP	46.0	-10.2	1.00 H	358	33.6	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

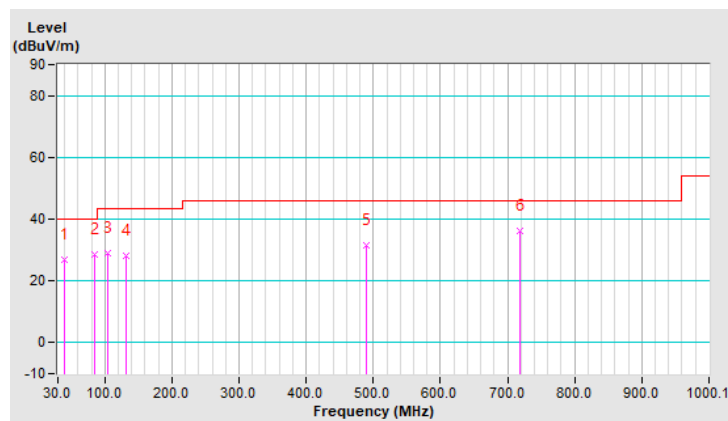


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

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	39.84	27.0 QP	40.0	-13.0	1.00 V	242	36.5	-9.5
2	84.83	28.6 QP	40.0	-11.4	1.00 V	86	42.5	-13.9
3	104.51	28.8 QP	43.5	-14.7	1.00 V	46	41.2	-12.4
4	131.23	28.1 QP	43.5	-15.4	1.49 V	5	38.0	-9.9
5	489.74	31.5 QP	46.0	-14.5	1.00 V	2	33.3	-1.8
6	717.51	36.2 QP	46.0	-9.8	1.00 V	155	34.0	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

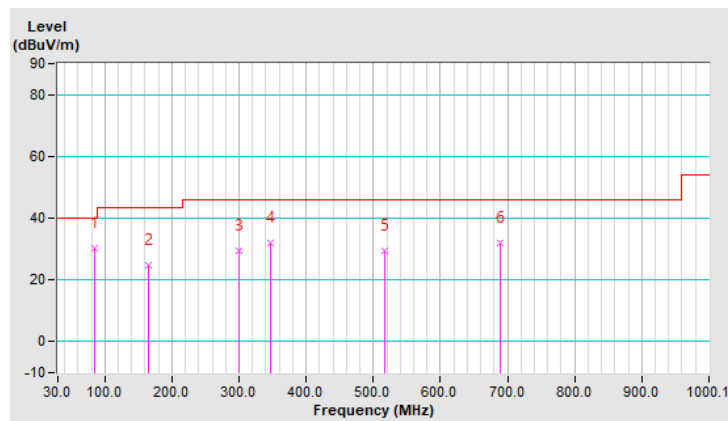


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	E		

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	84.83	30.1 QP	40.0	-9.9	1.49 H	191	44.0	-13.9
2	164.97	24.6 QP	43.5	-18.9	1.49 H	66	33.3	-8.7
3	299.94	29.4 QP	46.0	-16.6	1.00 H	88	36.7	-7.3
4	347.74	31.9 QP	46.0	-14.1	1.00 H	92	38.3	-6.4
5	516.46	29.3 QP	46.0	-16.7	1.49 H	192	30.2	-0.9
6	689.39	31.8 QP	46.0	-14.2	1.49 H	9	29.9	1.9

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

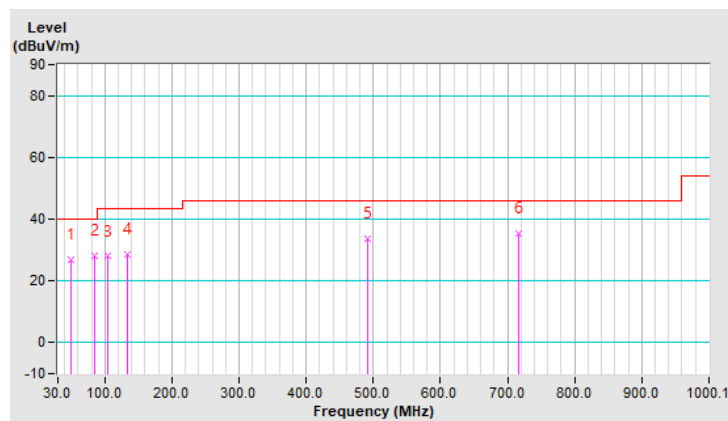


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	E		

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	49.68	26.9 QP	40.0	-13.1	1.00 V	276	35.7	-8.8
2	84.83	28.1 QP	40.0	-11.9	1.00 V	82	42.0	-13.9
3	104.51	27.9 QP	43.5	-15.6	1.00 V	88	40.3	-12.4
4	134.04	28.4 QP	43.5	-15.1	1.50 V	118	37.9	-9.5
5	492.55	33.5 QP	46.0	-12.5	1.00 V	5	35.1	-1.6
6	716.10	35.4 QP	46.0	-10.6	1.50 V	301	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

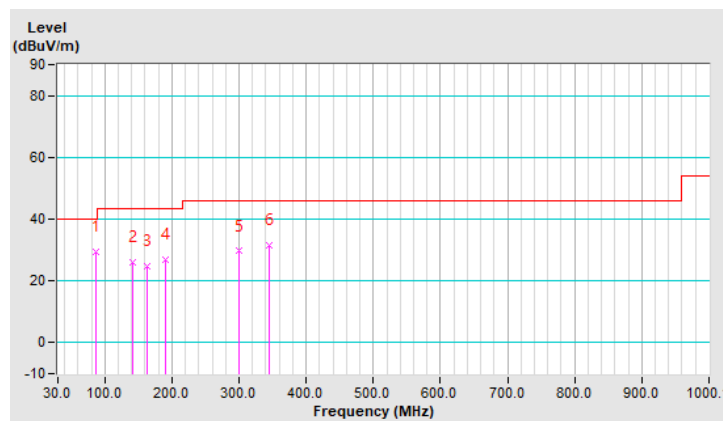


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	F		

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	86.24	29.4 QP	40.0	-10.6	1.50 H	204	43.6	-14.2
2	141.07	26.0 QP	43.5	-17.5	1.00 H	100	35.0	-9.0
3	162.16	24.8 QP	43.5	-18.7	1.50 H	98	33.4	-8.6
4	190.28	26.8 QP	43.5	-16.7	1.50 H	96	38.0	-11.2
5	299.94	29.6 QP	46.0	-16.4	1.00 H	82	36.9	-7.3
6	344.93	31.6 QP	46.0	-14.4	1.00 H	89	38.1	-6.5

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

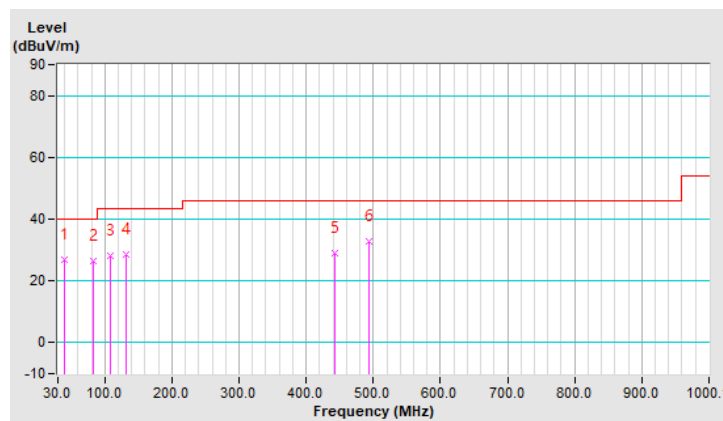


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	F		

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	39.84	26.9 QP	40.0	-13.1	1.00 V	120	36.4	-9.5
2	82.02	26.3 QP	40.0	-13.7	1.00 V	54	39.9	-13.6
3	107.33	28.3 QP	43.5	-15.2	1.00 V	16	40.4	-12.1
4	131.23	28.5 QP	43.5	-15.0	1.00 V	359	38.4	-9.9
5	443.35	29.0 QP	46.0	-17.0	1.49 V	5	31.7	-2.7
6	493.96	32.7 QP	46.0	-13.3	1.00 V	9	34.3	-1.6

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



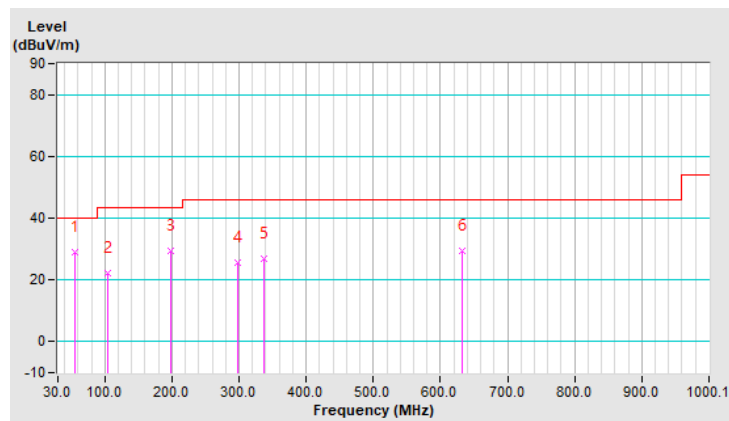
Standby Mode

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

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	55.31	28.9 QP	40.0	-11.1	1.00 H	12	37.8	-8.9
2	104.51	22.1 QP	43.5	-21.4	1.50 H	22	34.5	-12.4
3	198.71	29.4 QP	43.5	-14.1	1.50 H	129	41.1	-11.7
4	297.13	25.7 QP	46.0	-20.3	1.50 H	96	33.2	-7.5
5	337.90	26.9 QP	46.0	-19.1	1.00 H	78	33.2	-6.3
6	633.15	29.3 QP	46.0	-16.7	1.50 H	204	27.7	1.6

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

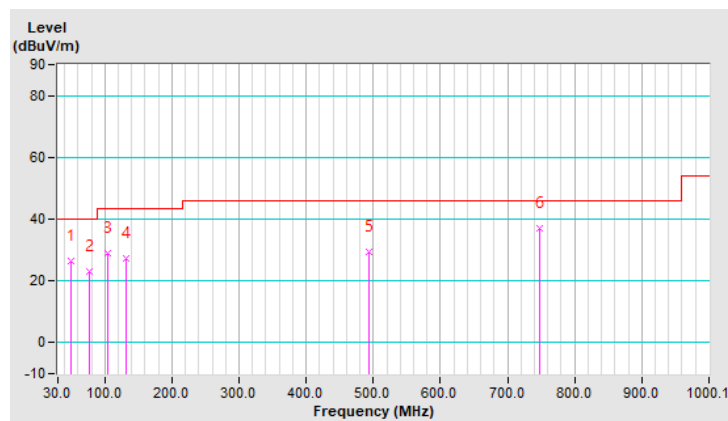


Channel	TX Channel 1	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	G		

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	49.68	26.3 QP	40.0	-13.7	1.00 V	105	35.1	-8.8
2	76.40	23.0 QP	40.0	-17.0	1.50 V	12	35.4	-12.4
3	104.51	29.0 QP	43.5	-14.5	1.00 V	55	41.4	-12.4
4	131.23	27.5 QP	43.5	-16.0	1.00 V	122	37.4	-9.9
5	493.96	29.5 QP	46.0	-16.5	1.00 V	352	31.1	-1.6
6	747.03	37.0 QP	46.0	-9.0	1.50 V	285	34.2	2.8

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	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
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 1 (Conduction 1).

3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

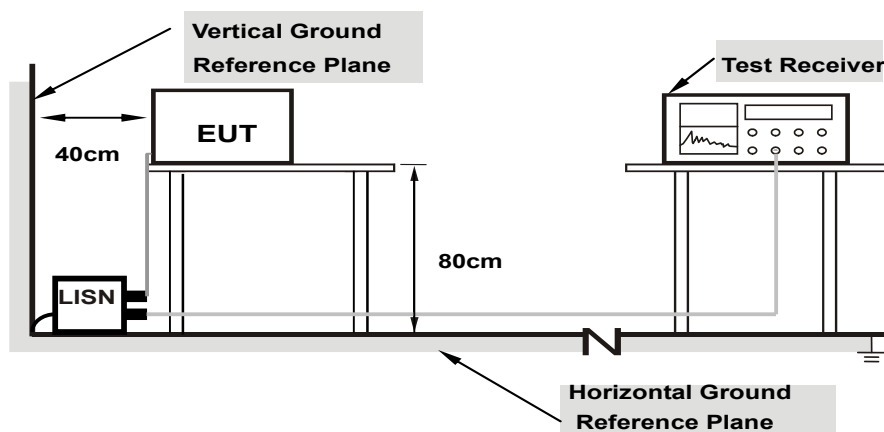
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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

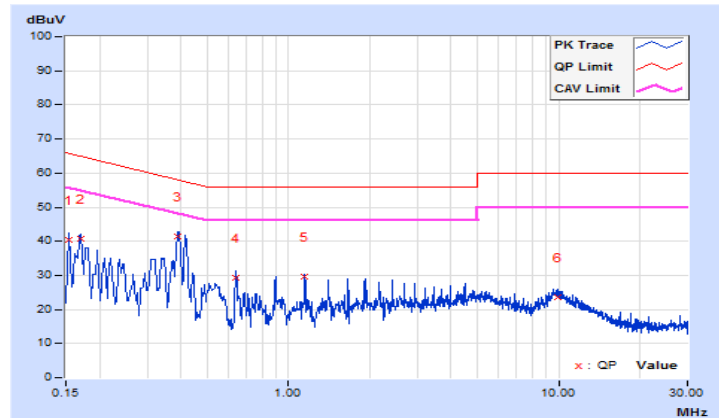
Charging Mode

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	0.15391	9.80	30.58	15.14	40.38	24.94	65.79	55.79	-25.41	-30.85
2	0.16955	9.80	31.06	17.59	40.86	27.39	64.98	54.98	-24.12	-27.59
3	0.39116	9.86	31.68	30.26	41.54	40.12	58.04	48.04	-16.50	-7.92
4	0.63856	9.88	19.41	18.76	29.29	28.64	56.00	46.00	-26.71	-17.36
5	1.15096	9.93	19.81	18.39	29.74	28.32	56.00	46.00	-26.26	-17.68
6	9.96801	10.14	13.53	8.34	23.67	18.48	60.00	50.00	-36.33	-31.52

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.

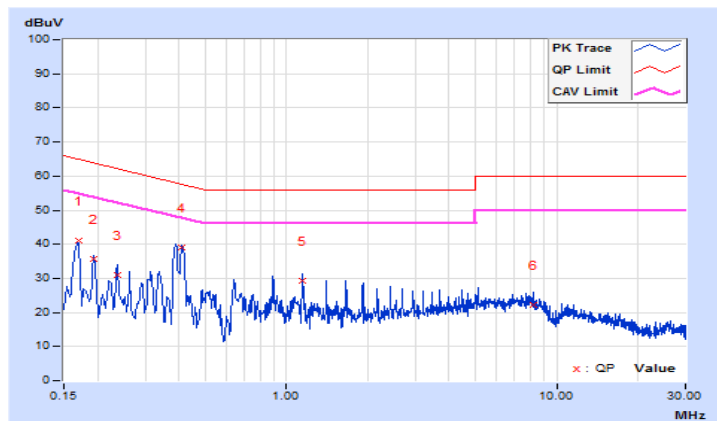


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.16955	9.82	31.20	17.38	41.02	27.20	64.98	54.98	-23.96	-27.78
2	0.19301	9.81	25.87	13.73	35.68	23.54	63.91	53.91	-28.23	-30.37
3	0.23602	9.82	21.23	9.89	31.05	19.71	62.24	52.24	-31.19	-32.53
4	0.40800	9.89	29.28	24.70	39.17	34.59	57.69	47.69	-18.52	-13.10
5	1.15096	9.96	19.34	17.81	29.30	27.77	56.00	46.00	-26.70	-18.23
6	8.18114	10.17	12.02	7.20	22.19	17.37	60.00	50.00	-37.81	-32.63

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.

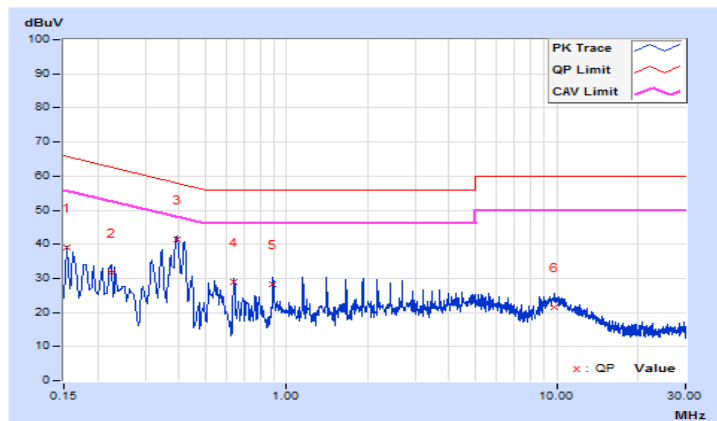


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [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	0.15391	9.80	29.12	15.86	38.92	25.66	65.79	55.79	-26.87	-30.13
2	0.22429	9.82	21.84	12.52	31.66	22.34	62.66	52.66	-31.00	-30.32
3	0.39219	9.86	31.68	29.36	41.54	39.22	58.02	48.02	-16.48	-8.80
4	0.63856	9.88	19.12	18.69	29.00	28.57	56.00	46.00	-27.00	-17.43
5	0.89290	9.91	18.29	17.54	28.20	27.45	56.00	46.00	-27.80	-18.55
6	9.86613	10.14	11.44	6.07	21.58	16.21	60.00	50.00	-38.42	-33.79

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.

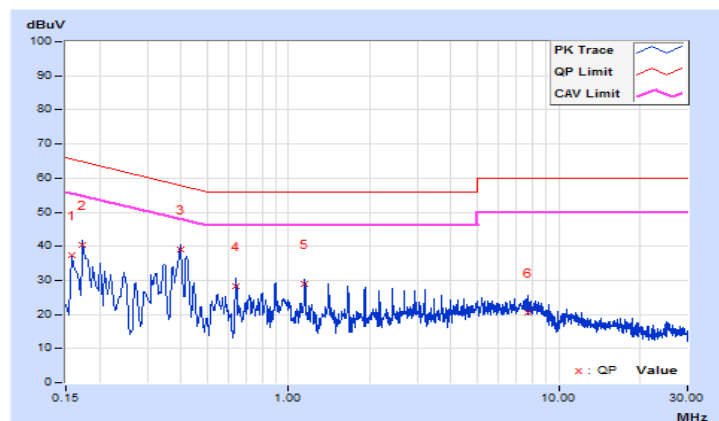


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.15782	9.82	27.63	10.62	37.45	20.44	65.58	55.58	-28.13	-35.14
2	0.17346	9.82	30.69	18.93	40.51	28.75	64.79	54.79	-24.28	-26.04
3	0.39949	9.89	29.17	26.93	39.06	36.82	57.86	47.86	-18.80	-11.04
4	0.63875	9.91	18.42	18.34	28.33	28.25	56.00	46.00	-27.67	-17.75
5	1.15096	9.96	19.08	18.02	29.04	27.98	56.00	46.00	-26.96	-18.02
6	7.67284	10.16	10.31	4.96	20.47	15.12	60.00	50.00	-39.53	-34.88

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.

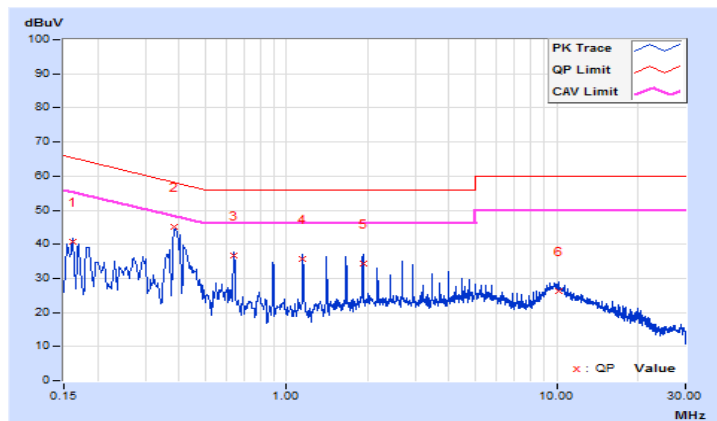


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.16173	9.80	31.05	18.51	40.85	28.31	65.37	55.37	-24.52	-27.06
2	0.38460	9.86	35.15	29.49	45.01	39.35	58.18	48.18	-13.17	-8.83
3	0.63856	9.88	26.83	26.74	36.71	36.62	56.00	46.00	-19.29	-9.38
4	1.15096	9.93	25.82	25.63	35.75	35.56	56.00	46.00	-20.25	-10.44
5	1.91732	9.97	24.32	23.91	34.29	33.88	56.00	46.00	-21.71	-12.12
6	10.22216	10.14	15.96	11.06	26.10	21.20	60.00	50.00	-33.90	-28.80

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.

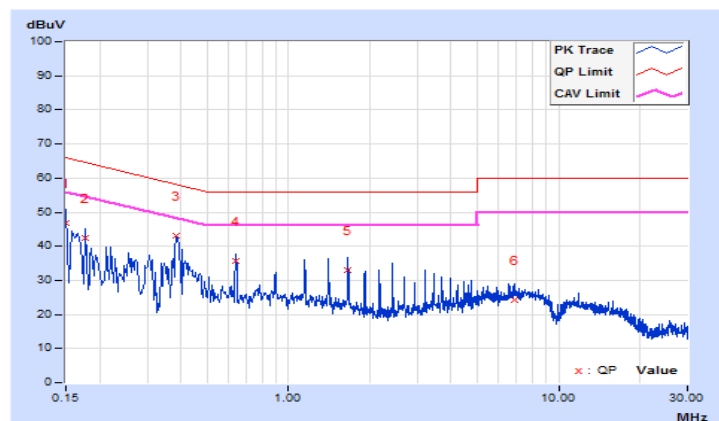


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.15000	9.82	37.04	21.05	46.86	30.87	66.00	56.00	-19.14	-25.13
2	0.17737	9.81	32.45	17.52	42.26	27.33	64.61	54.61	-22.35	-27.28
3	0.38460	9.88	33.30	28.61	43.18	38.49	58.18	48.18	-15.00	-9.69
4	0.63875	9.91	25.93	25.86	35.84	35.77	56.00	46.00	-20.16	-10.23
5	1.66317	10.00	22.91	22.40	32.91	32.40	56.00	46.00	-23.09	-13.60
6	6.90257	10.15	14.14	9.16	24.29	19.31	60.00	50.00	-35.71	-30.69

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.

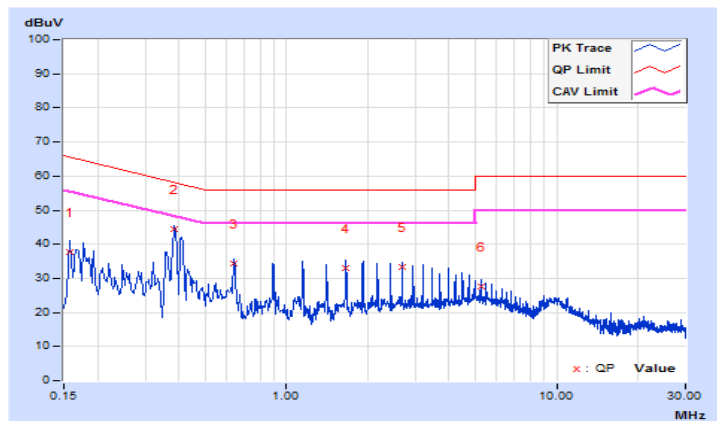


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.15782	9.80	28.05	12.27	37.85	22.07	65.58	55.58	-27.73	-33.51
2	0.38460	9.86	34.61	31.28	44.47	41.14	58.18	48.18	-13.71	-7.04
3	0.63875	9.88	24.51	23.35	34.39	33.23	56.00	46.00	-21.61	-12.77
4	1.66317	9.95	23.09	22.91	33.04	32.86	56.00	46.00	-22.96	-13.14
5	2.68368	10.00	23.40	23.01	33.40	33.01	56.00	46.00	-22.60	-12.99
6	5.24082	10.07	17.45	15.24	27.52	25.31	60.00	50.00	-32.48	-24.69

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.

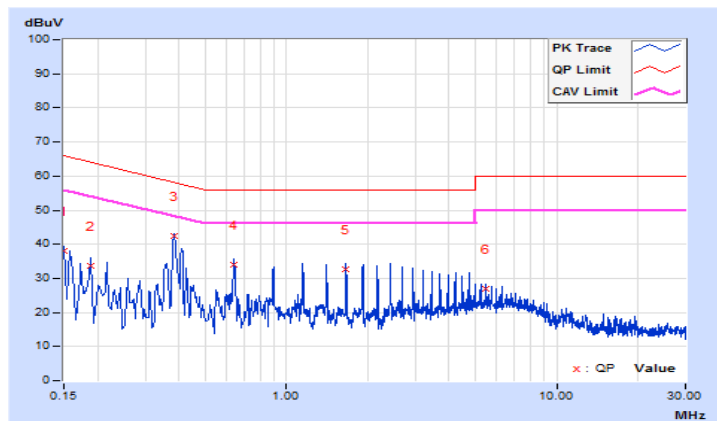


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.15000	9.82	28.17	16.34	37.99	26.16	66.00	56.00	-28.01	-29.84
2	0.18903	9.81	23.97	10.29	33.78	20.10	64.08	54.08	-30.30	-33.98
3	0.38460	9.88	32.56	28.79	42.44	38.67	58.18	48.18	-15.74	-9.51
4	0.63856	9.91	24.00	22.99	33.91	32.90	56.00	46.00	-22.09	-13.10
5	1.66317	10.00	22.63	22.63	32.63	32.63	56.00	46.00	-23.37	-13.37
6	5.49497	10.12	16.71	14.61	26.83	24.73	60.00	50.00	-33.17	-25.27

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.

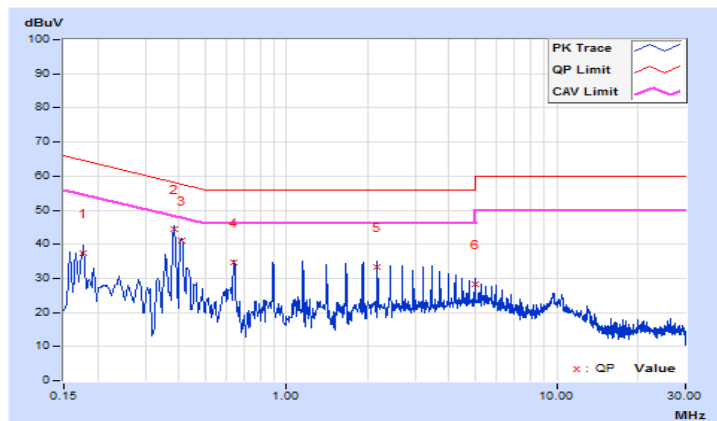


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	E		

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	0.17737	9.81	27.73	14.72	37.54	24.53	64.61	54.61	-27.07	-30.08
2	0.38460	9.86	34.69	31.30	44.55	41.16	58.18	48.18	-13.63	-7.02
3	0.40800	9.86	31.32	29.49	41.18	39.35	57.69	47.69	-16.51	-8.34
4	0.63875	9.88	24.78	23.37	34.66	33.25	56.00	46.00	-21.34	-12.75
5	2.17147	9.98	23.39	23.17	33.37	33.15	56.00	46.00	-22.63	-12.85
6	4.98276	10.06	18.11	16.17	28.17	26.23	56.00	46.00	-27.83	-19.77

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.

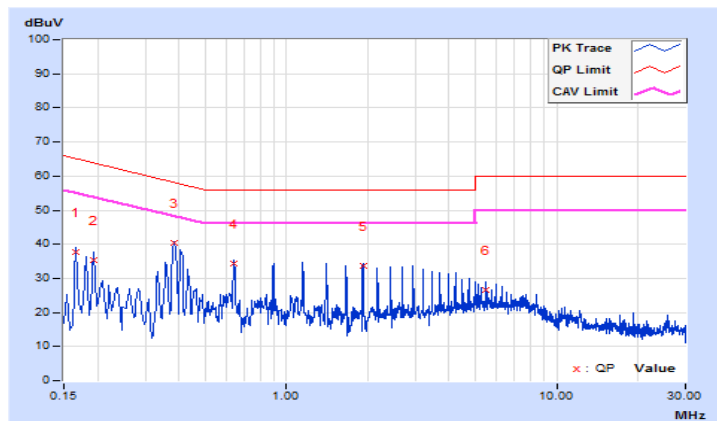


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	E		

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	0.16564	9.82	28.05	12.02	37.87	21.84	65.18	55.18	-27.31	-33.34
2	0.19301	9.81	25.38	11.08	35.19	20.89	63.91	53.91	-28.72	-33.02
3	0.38401	9.88	30.47	28.54	40.35	38.42	58.19	48.19	-17.84	-9.77
4	0.63875	9.91	24.35	23.15	34.26	33.06	56.00	46.00	-21.74	-12.94
5	1.91732	10.02	23.78	23.68	33.80	33.70	56.00	46.00	-22.20	-12.30
6	5.49497	10.12	16.59	14.68	26.71	24.80	60.00	50.00	-33.29	-25.20

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.

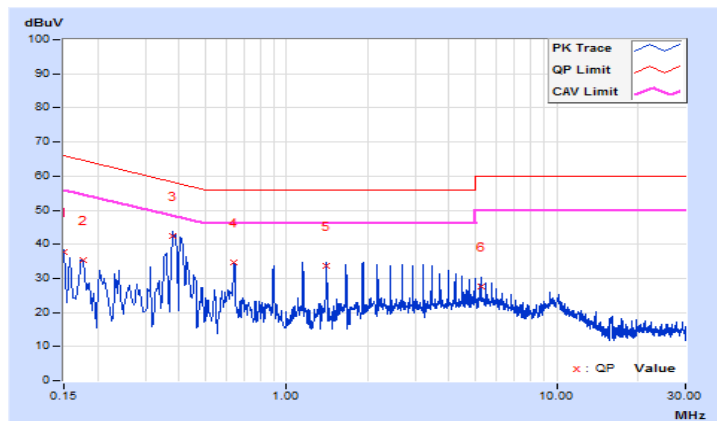


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	F		

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	0.15000	9.80	27.88	17.19	37.68	26.99	66.00	56.00	-28.32	-29.01
2	0.17737	9.81	25.64	14.14	35.45	23.95	64.61	54.61	-29.16	-30.66
3	0.38069	9.86	32.51	28.89	42.37	38.75	58.26	48.26	-15.89	-9.51
4	0.63856	9.88	24.67	23.37	34.55	33.25	56.00	46.00	-21.45	-12.75
5	1.40511	9.94	23.85	23.79	33.79	33.73	56.00	46.00	-22.21	-12.27
6	5.24082	10.07	17.65	15.28	27.72	25.35	60.00	50.00	-32.28	-24.65

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.

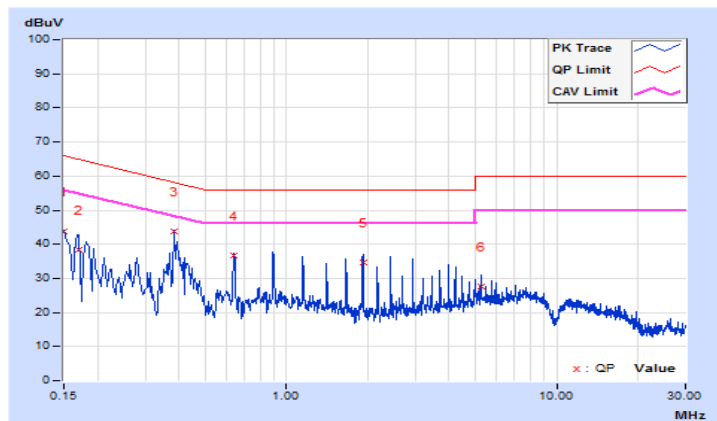


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	F		

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	0.15000	9.82	34.11	18.76	43.93	28.58	66.00	56.00	-22.07	-27.42
2	0.16955	9.82	28.66	14.18	38.48	24.00	64.98	54.98	-26.50	-30.98
3	0.38460	9.88	33.95	29.53	43.83	39.41	58.18	48.18	-14.35	-8.77
4	0.63856	9.91	26.71	26.63	36.62	36.54	56.00	46.00	-19.38	-9.46
5	1.91732	10.02	24.75	24.20	34.77	34.22	56.00	46.00	-21.23	-11.78
6	5.24082	10.11	17.61	15.08	27.72	25.19	60.00	50.00	-32.28	-24.81

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.



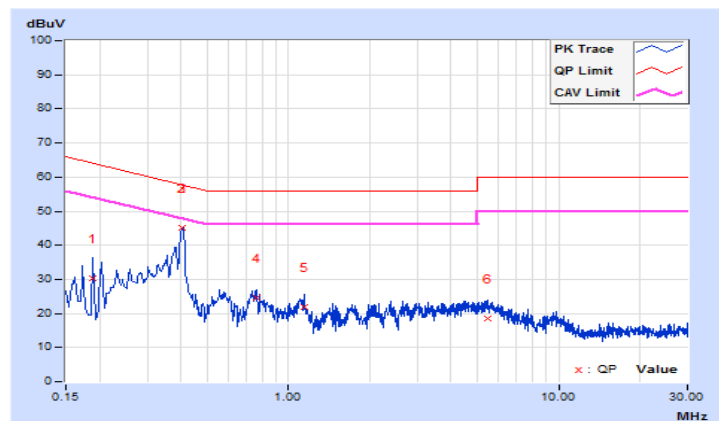
Standby Mode

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

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	0.18910	9.81	20.33	1.73	30.14	11.54	64.08	54.08	-33.94	-42.54
2	0.40373	9.86	35.14	23.33	45.00	33.19	57.78	47.78	-12.78	-14.59
3	0.40373	9.86	35.14	23.31	45.00	33.17	57.78	47.78	-12.78	-14.61
4	0.75984	9.90	14.75	6.13	24.65	16.03	56.00	46.00	-31.35	-29.97
5	1.14012	9.93	12.05	3.02	21.98	12.95	56.00	46.00	-34.02	-33.05
6	5.45978	10.07	8.57	1.49	18.64	11.56	60.00	50.00	-41.36	-38.44

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.

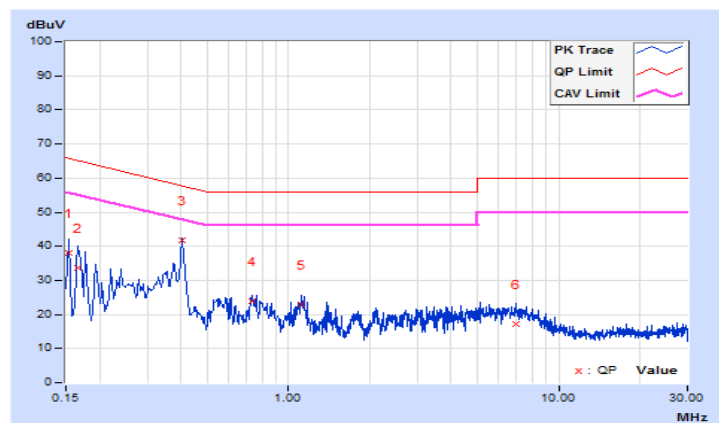


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	G		

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	0.15391	9.82	28.36	7.85	38.18	17.67	65.79	55.79	-27.61	-38.12
2	0.16564	9.82	23.96	3.13	33.78	12.95	65.18	55.18	-31.40	-42.23
3	0.40415	9.89	31.80	20.04	41.69	29.93	57.77	47.77	-16.08	-17.84
4	0.73650	9.92	14.00	5.32	23.92	15.24	56.00	46.00	-32.08	-30.76
5	1.11577	9.96	12.80	3.80	22.76	13.76	56.00	46.00	-33.24	-32.24
6	6.94167	10.15	7.00	2.03	17.15	12.18	60.00	50.00	-42.85	-37.82

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.

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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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