

FCC Test Report

Report No.: RFBCBS-WTW-P23090428

FCC ID: K7SWIZ021

Test Model: WIZ021

Received Date: Sep. 08, 2023

Test Date: Sep. 22 ~ Dec. 27, 2023

Issued Date: Jan. 02, 2024

Applicant: Belkin International, Inc.

Address: 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

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-P23090428	Original release	Jan. 02, 2024

1 Certificate of Conformity

Product: BoostCharge Pro 2-in-1 Magnetic Charging Pad

Brand: belkin

Test Model: WIZ021

Sample Status: Engineering sample

Applicant: Belkin International, Inc.

Test Date: Sep. 22 ~ Dec. 27, 2023

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:** Jan. 02, 2024
Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Jan. 02, 2024
Jeremy Lin / 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 -13.46dB at 0.48189MHz.
15.209	Radiated Emission Test	Pass	Meet the requirement of limit. Minimum passing margin is -6.50dB at 371.48MHz

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	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
	200MHz ~ 1000MHz	2.95 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	BoostCharge Pro 2-in-1 Magnetic Charging Pad
Brand	belkin
Test Model	WIZ021
Sample Status	Engineering sample
Power Supply Rating	9Vdc, 3A
Modulation Type	FSK
Operating Frequency	127.7kHz for iPhone (8-11 series) 111-148kHz for AirPods 360.0kHz for iPhone (12 series up)
Antenna Type	Coil antenna
Field Strength	127.7kHz: -25.8dBuV/m (PK) (300m) -32.5dBuV/m (AV) (300m) 121.6kHz: -28.8dBuV/m (PK) (300m) -32.5dBuV/m (AV) (300m) 360.0kHz: -27.7dBuV/m (PK) (300m) -33.0dBuV/m (AV) (300m)
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below
Maximum Power Output for Qi2 charging coil	15W
Maximum Power Output for a11a Coil	5W
Dimension of Qi2 Charging Coil	12.13cm ²
Dimension of Qi A11a Charging Coil	15.20cm ²

Note:

1. The EUT contains following accessory devices.

Item	Brand	Model	Description
Adapter	belkin	A843-200150C-US1	I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 5.0Vdc, 3.0A; 9.0Vdc, 3.0A; 12.0Vdc, 2.5A; 15.0Vdc, 2.0A, 20Vdc, 1.5A Total Output Power 30.0W Max
BoostCharge Portable USB-C Apple Watch Charger (Option)	belkin	WIZ022	-
Type C to Type C USB Cable	belkin	CAB003bt2MBK (black) / CAB003bt2MWH (white)	1.5m shielding cable

2. The EUT has two exterior colors: black and white.

3. Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.

3.2 Description of Test Modes

3 Frequency tested to this EUT.

Test Frequency
127.7kHz
121.6kHz
360.0kHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT configure mode	Applicable to			Description
	RE<1G	PLC	BW	
A	√	-	√	Charging Mode (EUT with RX Load) - 360.0kHz
B	√	-	√	Charging Mode (EUT with AirPods Pro Case) – 121.6kHz
C	√	-	√	Charging Mode (EUT with iPhone 11) – 127.7kHz
D	√	√	-	Charging Mode (EUT with iPhone 11 and AirPods Pro Case) - 127.7kHz + 121.6kHz
E	√	-	-	Charging Mode (EUT with RX Load and AirPods Pro Case) - 121.6kHz + 360.0kHz
F	√	-	-	Charging Mode (EUT with iPhone 13) – 360.0kHz
G	√	-	-	Standby Mode

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

PLC: Power Line Conducted Emission

BW: 20dB Bandwidth

- Note:
1. The charging mode has been pre-tested in three modes: 10%, 50% and 90%. After verification, 10% was chosen for final test and presented in the test report.
 2. For power line conducted emission test item, mode A to mode G have been pre-tested. The worst case was found to be mode D. Select mode D for final test and presented in the test report.
 3. For modes B, D, and E, the frequency which yielded the worst-case results was tested and reported for the supported 111-148kHz frequency range.

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	Tested Frequency
A	360.0kHz
B	121.6kHz
C	127.7kHz
D	127.7kHz + 121.6kHz
E	121.6kHz + 360.0kHz
F	360.0kHz
G	-

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	Tested Frequency
D	127.7kHz + 121.6kHz

20dB Bandwidth 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	Tested Frequency
A	360.0kHz
B	121.6kHz
C	127.7kHz

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE<1G	22 deg. C, 66% RH	120Vac, 60Hz	Vincent Chen
	23 deg. C, 64% RH		Tim Chen
PLC	24 deg. C, 67% RH	120Vac, 60Hz	Thomas Cheng
BW	22 deg. C, 66% RH	120Vac, 60Hz	Vincent Chen

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.

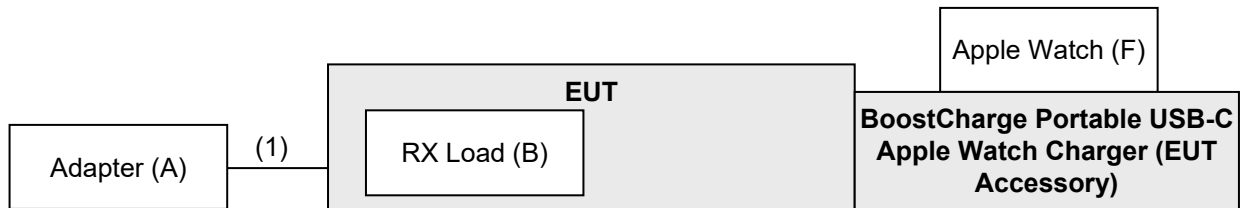
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Adapter	belkin	A843-200150C-US1	NA	NA	Accessory of EUT
B.	RX Load	convenientpower	T70-B	NA	NA	360kHz Provided by manufacturer
C.	AirPods Pro Case	APPLE	A2566	NA	NA	121.6kHz Provided by manufacturer
D.	iPhone 11	APPLE	A2215	NA	BCG-E3309A	127.7kHz Provided by manufacturer
E.	iPhone 13	APPLE	A2633	NA	BCG-E4031A	360kHz Provided by manufacturer
F.	Apple Watch	APPLE	A2476	NA	BCG-A2476	Provided by manufacturer

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Type C to Type C USB Cable	1	1.5	Y	0	Accessory of EUT

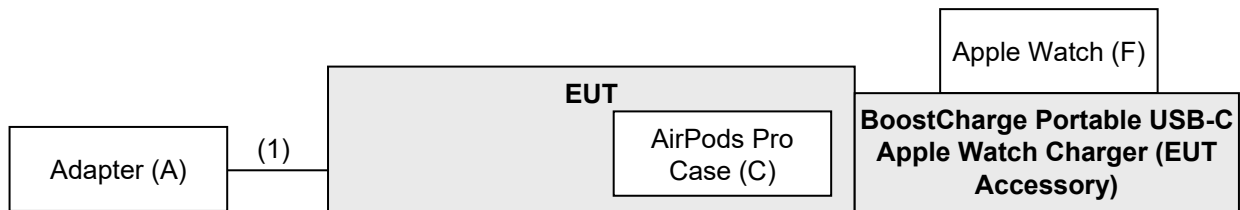
3.3.1 Configuration of System under Test

Charging Mode:

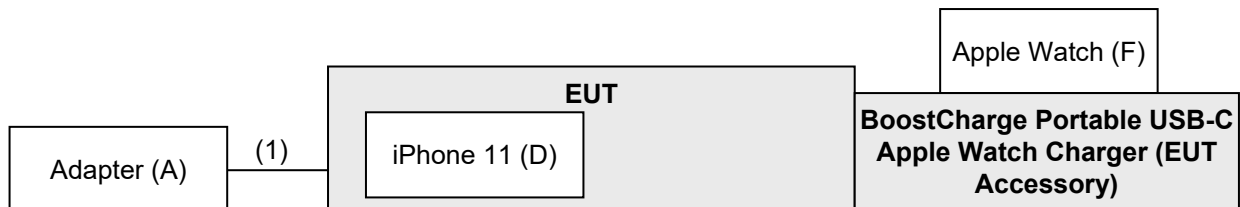
Test Mode A



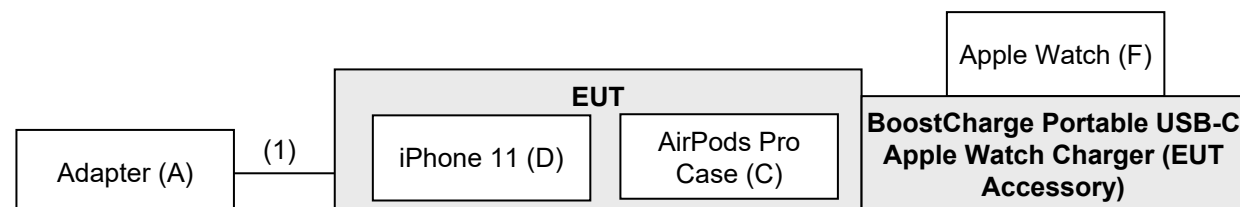
Test Mode B



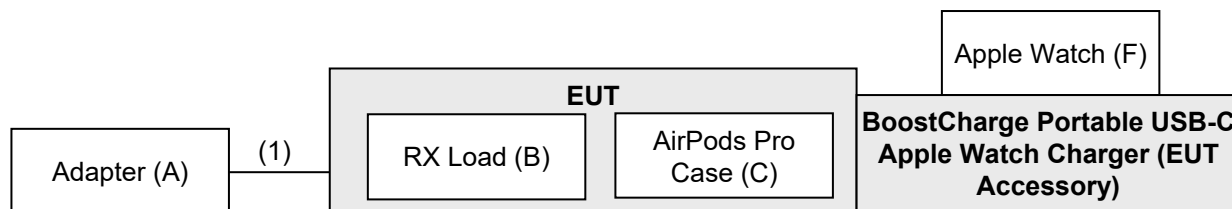
Test Mode C



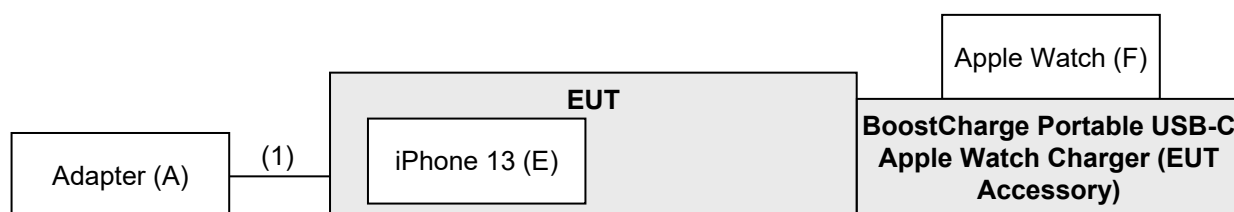
Test Mode D



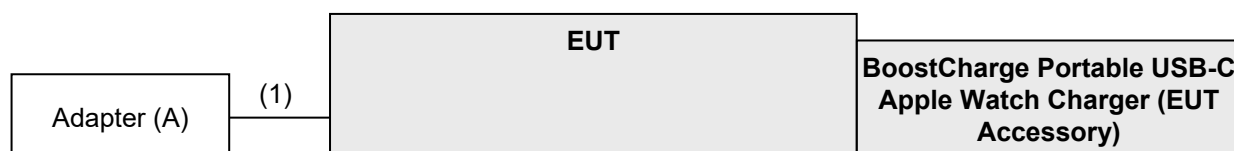
Test Mode E



Test Mode F



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)	at 3m	
	uV/m	dBuV/m
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	May 03, 2023	May 02, 2024
Signal Analyzer Agilent	N9010A	MY52220207	Jan. 03, 2023	Jan. 02, 2024
Loop Antenna TESEQ	HLA 6121	45745	Aug. 08, 2023	Aug. 07, 2024
Pre-amplifier EMCI	EMC001340	980201	Sep. 23, 2022	Sep. 22, 2023
			Sep. 27, 2023	Sep. 26, 2024
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	Jan. 07, 2023	Jan. 06, 2024
Pre-Amplifier EMCI	EMC 330H	980112	Oct. 01, 2022	Sep. 30, 2023
			Sep. 27, 2023	Sep. 26, 2024
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	Oct. 21, 2022	Oct. 20, 2023
			Oct. 16, 2023	Oct. 15, 2024
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Sep. 14, 2023	Sep. 13, 2024
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-440H	AT93021705	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller Max-Full	MF-7802	NA	NA	NA
Boresight antenna tower fixture BV	BAF-02	7	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 HY - 966 chamber 5.

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, except for the frequency band (9kHz-90kHz, 110kHz-490kHz) set to average detect function and peak detect function.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency 150 kHz to 30MHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters 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.

Note:

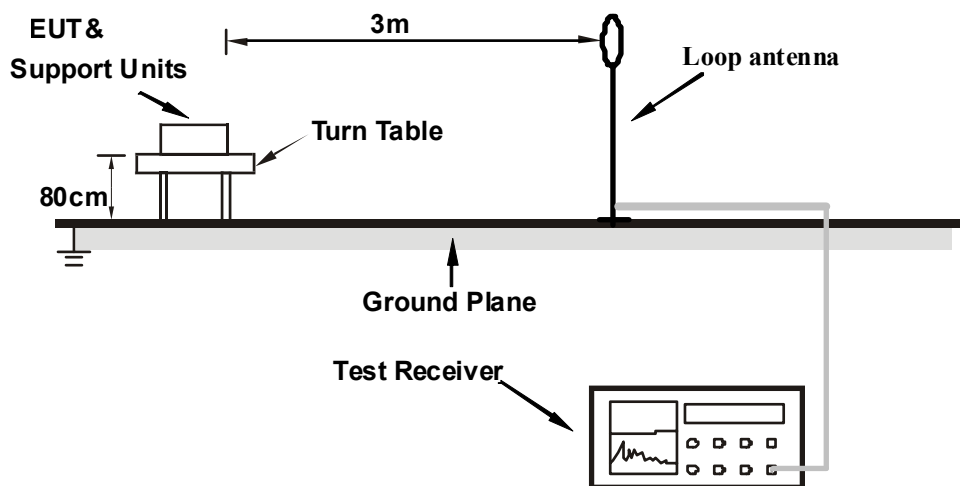
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

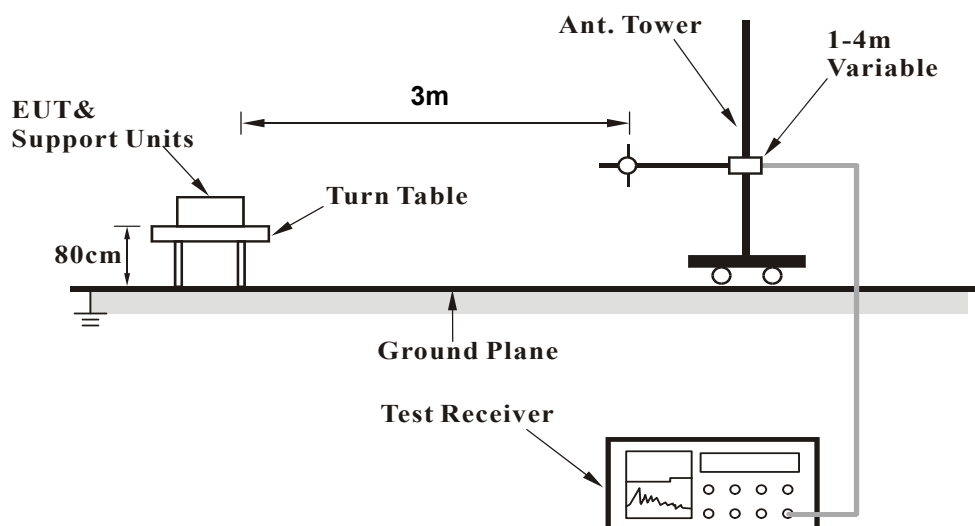
No deviation.

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:

- The EUT powered by adapter.
- Connected BoostCharge Portable USB-C Apple Watch Charger with EUT.
- Put the Apple Watch on the BoostCharge Portable USB-C Apple Watch Charger (wireless charging) during the test.
- Put the iPhone or RX Load or AirPods Pro Case on the EUT (wireless charging) during the test.

Standby Mode:

- The EUT powered by adapter.
- Connected BoostCharge Portable USB-C Apple Watch Charger with EUT.

4.1.7 Test Results

Below 30MHz Data:

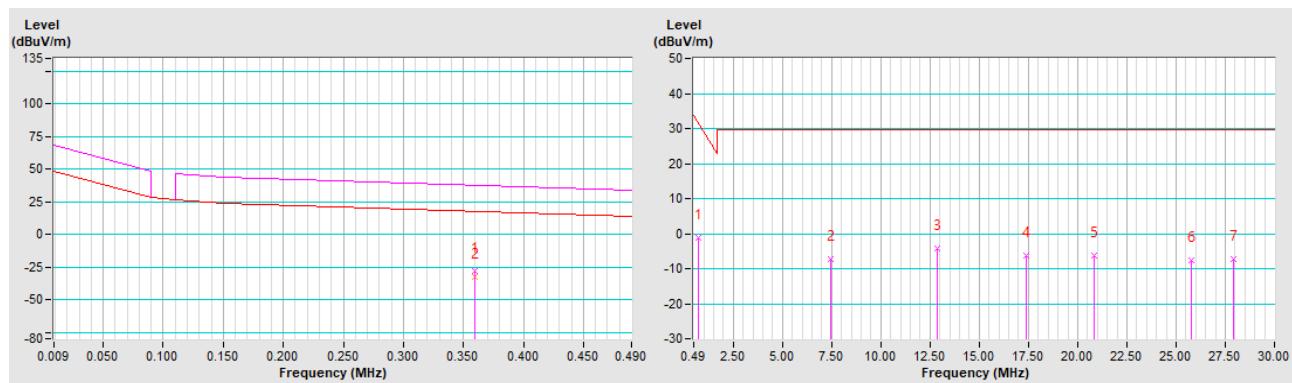
Charging Mode

Test Frequency	360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	A		

Antenna Polarity : Parallel								
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	-27.7 PK	36.5	-64.2	1.00	167	32.5	-60.2
2	*0.3600	-33.0 AV	16.5	-49.5	1.00	167	27.2	-60.2
3	0.72	-1.1 QP	30.5	-31.6	1.00	40	19.1	-20.2
4	7.45	-7.4 QP	29.5	-36.9	1.00	2	11.4	-18.8
5	12.88	-4.2 QP	29.5	-33.7	1.00	88	14.3	-18.5
6	17.37	-6.3 QP	29.5	-35.8	1.00	297	11.7	-18.0
7	20.85	-6.2 QP	29.5	-35.7	1.00	176	12.0	-18.2
8	25.78	-7.6 QP	29.5	-37.1	1.00	16	10.3	-17.9
9	27.90	-7.3 QP	29.5	-36.8	1.00	78	10.6	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

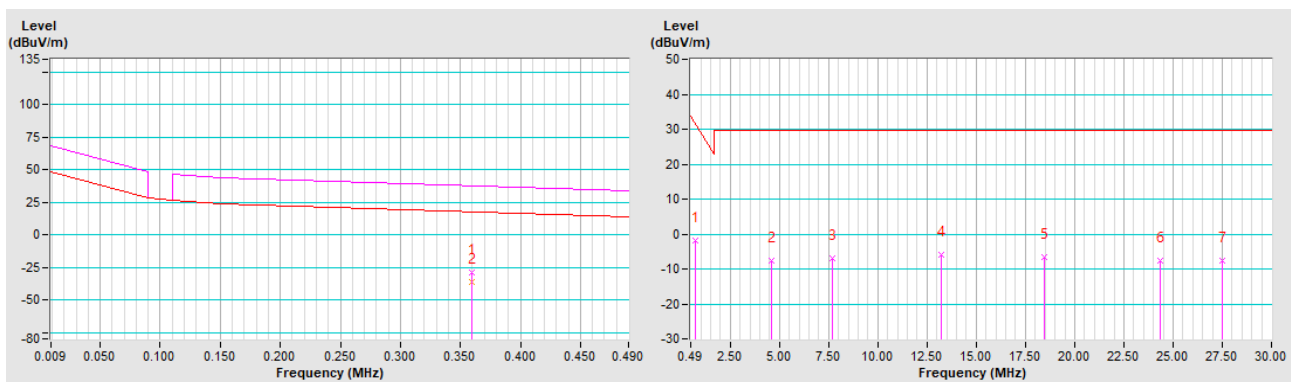


Test Frequency	360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	A		

Antenna Polarity : Perpendicular								
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	-29.1 PK	36.5	-65.6	1.00	243	31.1	-60.2
2	*0.3600	-35.9 AV	16.5	-52.4	1.00	243	24.3	-60.2
3	0.72	-2.0 QP	30.5	-32.5	1.00	255	18.2	-20.2
4	4.62	-7.5 QP	29.5	-37.0	1.00	18	12.6	-20.1
5	7.69	-7.1 QP	29.5	-36.6	1.00	26	11.8	-18.9
6	13.21	-5.8 QP	29.5	-35.3	1.00	84	12.7	-18.5
7	18.46	-6.6 QP	29.5	-36.1	1.00	18	11.3	-17.9
8	24.36	-7.7 QP	29.5	-37.2	1.00	116	10.3	-18.0
9	27.49	-7.6 QP	29.5	-37.1	1.00	74	10.2	-17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

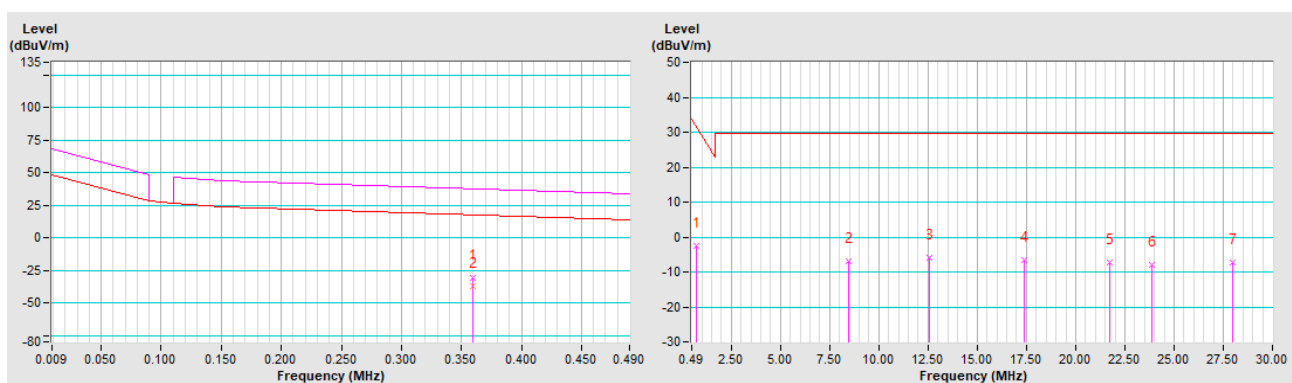


Test Frequency	360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)
Test Mode	A		

Antenna Polarity : Ground-parallel								
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	-30.6 PK	36.5	-67.1	1.00	136	29.6	-60.2
2	*0.3600	-37.6 AV	16.5	-54.1	1.00	136	22.6	-60.2
3	0.72	-2.5 QP	30.5	-33.0	1.00	327	17.7	-20.2
4	8.49	-7.1 QP	29.5	-36.6	1.00	2	11.8	-18.9
5	12.56	-5.8 QP	29.5	-35.3	1.00	68	12.6	-18.4
6	17.37	-6.6 QP	29.5	-36.1	1.00	174	11.4	-18.0
7	21.71	-7.4 QP	29.5	-36.9	1.00	2	10.8	-18.2
8	23.89	-8.0 QP	29.5	-37.5	1.00	2	10.4	-18.4
9	27.99	-7.3 QP	29.5	-36.8	1.00	202	10.6	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

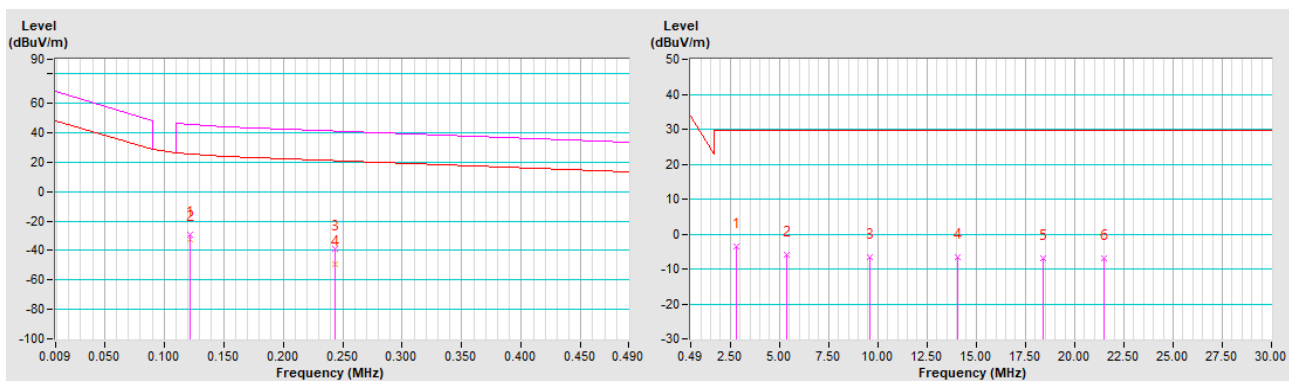


Test Frequency	121.6kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity : Parallel								
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	*0.1216	-28.8 PK	45.9	-74.7	1.00	246	31.8	-60.6
2	*0.1216	-32.5 AV	25.9	-58.4	1.00	246	28.1	-60.6
3	0.2432	-38.6 PK	39.9	-78.5	1.00	178	21.5	-60.1
4	0.2432	-49.6 AV	19.9	-69.5	1.00	178	10.5	-60.1
5	2.82	-3.7 QP	29.5	-33.2	1.00	295	16.8	-20.5
6	5.39	-5.8 QP	29.5	-35.3	1.00	109	13.8	-19.6
7	9.61	-6.7 QP	29.5	-36.2	1.00	12	12.0	-18.7
8	14.06	-6.6 QP	29.5	-36.1	1.00	226	12.1	-18.7
9	18.40	-7.1 QP	29.5	-36.6	1.00	1	10.8	-17.9
10	21.47	-6.9 QP	29.5	-36.4	1.00	138	11.3	-18.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

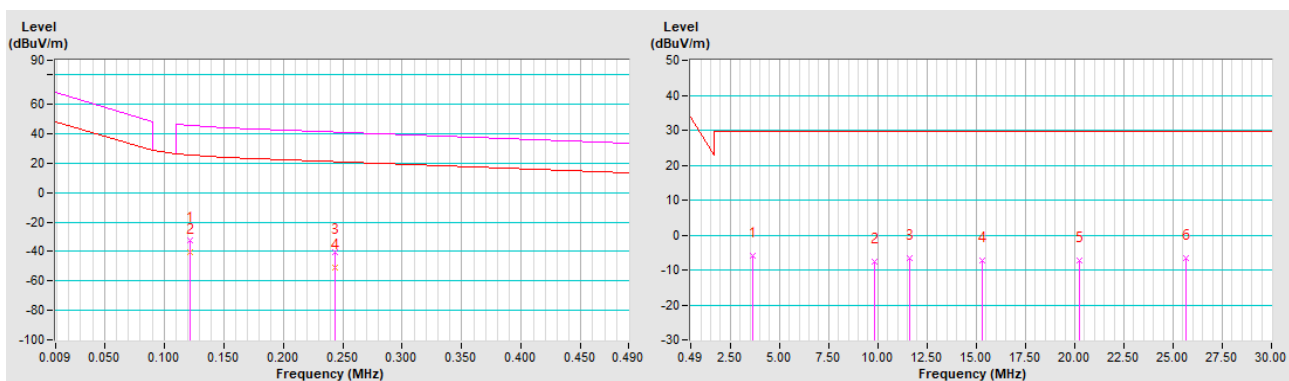


Test Frequency	121.6kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity : Perpendicular								
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	*0.1216	-32.7 PK	45.9	-78.6	1.00	182	27.9	-60.6
2	*0.1216	-40.4 AV	25.9	-66.3	1.00	182	20.2	-60.6
3	0.2432	-40.4 PK	39.9	-80.3	1.00	239	19.7	-60.1
4	0.2432	-50.9 AV	19.9	-70.8	1.00	239	9.2	-60.1
5	3.65	-5.9 QP	29.5	-35.4	1.00	41	14.4	-20.3
6	9.82	-7.7 QP	29.5	-37.2	1.00	169	11.0	-18.7
7	11.64	-6.5 QP	29.5	-36.0	1.00	67	11.8	-18.3
8	15.33	-7.3 QP	29.5	-36.8	1.00	316	11.2	-18.5
9	20.26	-7.4 QP	29.5	-36.9	1.00	115	10.6	-18.0
10	25.63	-6.5 QP	29.5	-36.0	1.00	159	11.3	-17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

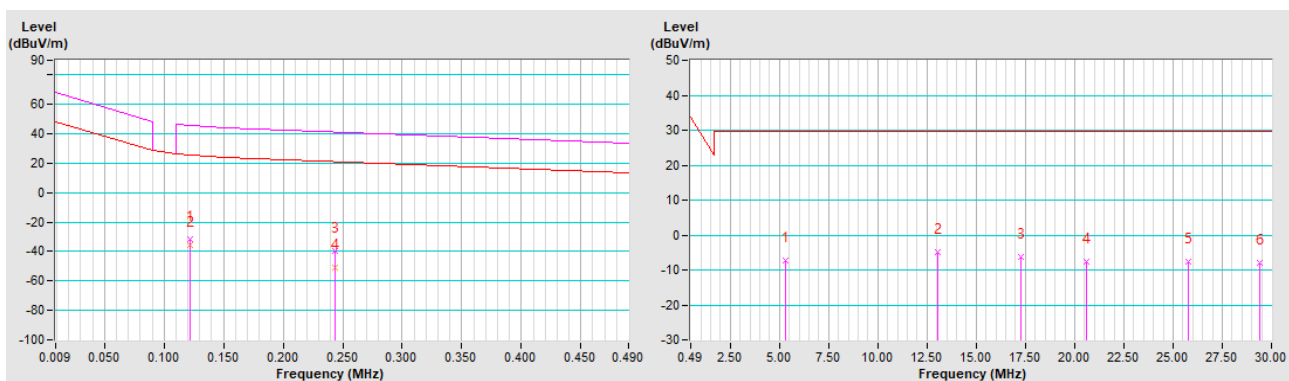


Test Frequency	121.6kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity : Ground-parallel								
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	*0.1216	-31.4 PK	45.9	-77.3	1.00	102	29.2	-60.6
2	*0.1216	-35.5 AV	25.9	-61.4	1.00	102	25.1	-60.6
3	0.2432	-40.0 PK	39.9	-79.9	1.00	88	20.1	-60.1
4	0.2432	-50.7 AV	19.9	-70.6	1.00	88	9.4	-60.1
5	5.33	-7.4 QP	29.5	-36.9	1.00	48	12.3	-19.7
6	13.06	-4.9 QP	29.5	-34.4	1.00	144	13.6	-18.5
7	17.28	-6.2 QP	29.5	-35.7	1.00	81	11.8	-18.0
8	20.59	-7.6 QP	29.5	-37.1	1.00	78	10.5	-18.1
9	25.75	-7.6 QP	29.5	-37.1	1.00	259	10.3	-17.9
10	29.41	-8.0 QP	29.5	-37.5	1.00	154	10.0	-18.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

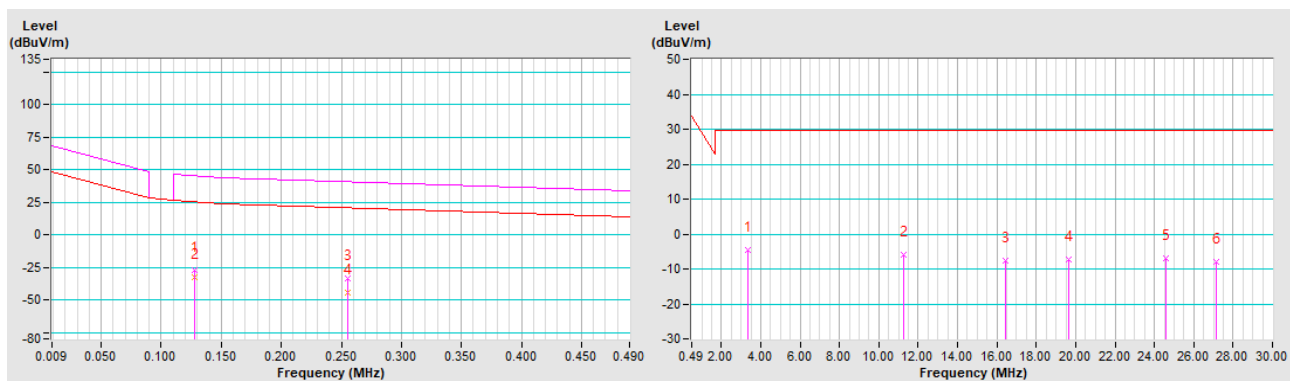


Test Frequency	127.7kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity : Parallel								
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	-27.0 PK	45.5	-72.5	1.00	232	33.6	-60.6
2	*0.1277	-32.7 AV	25.5	-58.2	1.00	232	27.9	-60.6
3	0.2554	-33.2 PK	39.5	-72.7	1.00	164	27.0	-60.2
4	0.2554	-44.7 AV	19.5	-64.2	1.00	164	15.5	-60.2
5	3.35	-4.7 QP	29.5	-34.2	1.00	246	15.7	-20.4
6	11.23	-6.0 QP	29.5	-35.5	1.00	2	12.4	-18.4
7	16.43	-7.6 QP	29.5	-37.1	1.00	2	10.6	-18.2
8	19.67	-7.3 QP	29.5	-36.8	1.00	154	10.6	-17.9
9	24.57	-7.1 QP	29.5	-36.6	1.00	35	10.7	-17.8
10	27.17	-8.1 QP	29.5	-37.6	1.00	2	9.7	-17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

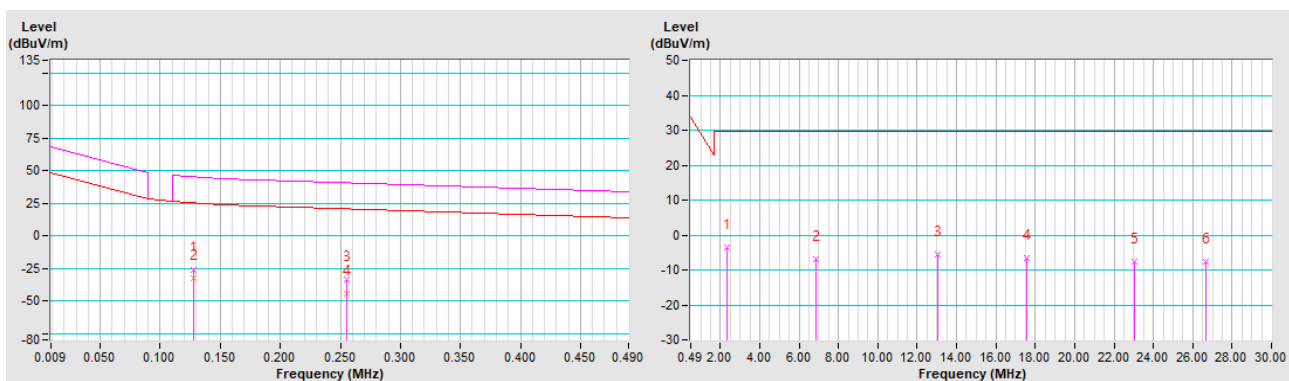


Test Frequency	127.7kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity : Perpendicular								
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	-25.9 PK	45.5	-71.4	1.00	128	34.7	-60.6
2	*0.1277	-32.5 AV	25.5	-58.0	1.00	128	28.1	-60.6
3	0.2554	-33.4 PK	39.5	-72.9	1.00	237	26.8	-60.2
4	0.2554	-44.8 AV	19.5	-64.3	1.00	237	15.4	-60.2
5	2.32	-3.6 QP	29.5	-33.1	1.00	152	16.8	-20.4
6	6.86	-7.1 QP	29.5	-36.6	1.00	26	11.7	-18.8
7	13.06	-5.5 QP	29.5	-35.0	1.00	309	13.0	-18.5
8	17.58	-6.5 QP	29.5	-36.0	1.00	18	11.4	-17.9
9	23.04	-7.5 QP	29.5	-37.0	1.00	239	11.1	-18.6
10	26.67	-7.7 QP	29.5	-37.2	1.00	94	10.2	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

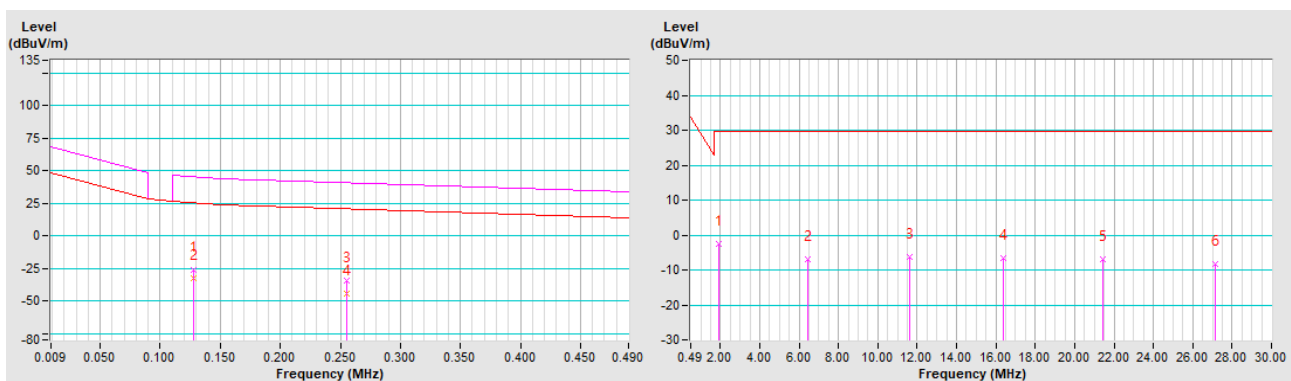


Test Frequency	127.7kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	C		

Antenna Polarity : Ground-parallel								
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	-25.8 PK	45.5	-71.3	1.00	157	34.8	-60.6
2	*0.1277	-32.8 AV	25.5	-58.3	1.00	157	27.8	-60.6
3	0.2554	-34.5 PK	39.5	-74.0	1.00	325	25.7	-60.2
4	0.2554	-44.9 AV	19.5	-64.4	1.00	325	15.3	-60.2
5	1.94	-2.7 QP	29.5	-32.2	1.00	143	17.7	-20.4
6	6.42	-7.0 QP	29.5	-36.5	1.00	10	11.8	-18.8
7	11.62	-6.4 QP	29.5	-35.9	1.00	2	11.9	-18.3
8	16.40	-6.5 QP	29.5	-36.0	1.00	213	11.7	-18.2
9	21.41	-7.1 QP	29.5	-36.6	1.00	237	11.1	-18.2
10	27.17	-8.2 QP	29.5	-37.7	1.00	283	9.6	-17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

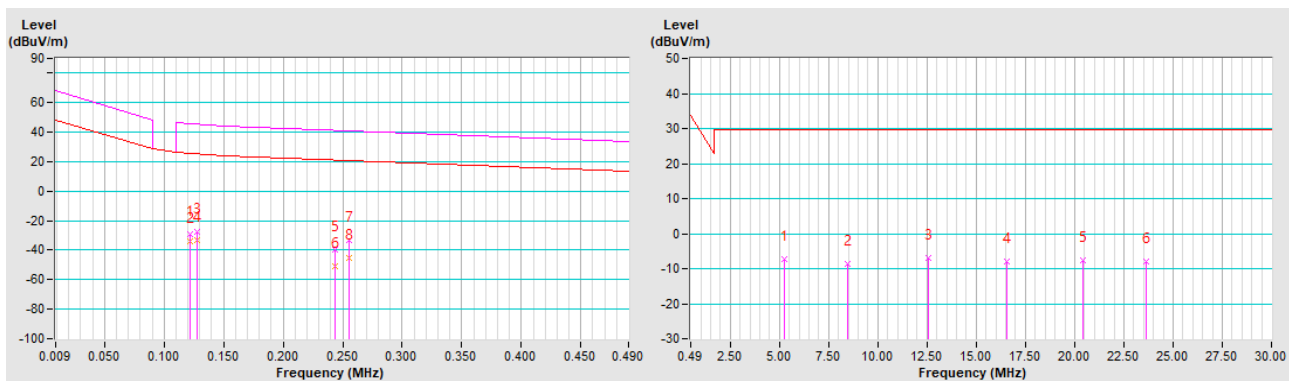


Test Frequency	127.7kHz + 121.6kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	D		

Antenna Polarity : Parallel								
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	*0.1216	-29.5 PK	45.9	-75.4	1.00	148	31.1	-60.6
2	*0.1216	-33.6 AV	25.9	-59.5	1.00	148	27.0	-60.6
3	*0.1277	-27.4 PK	45.5	-72.9	1.00	210	33.2	-60.6
4	*0.1277	-33.2 AV	25.5	-58.7	1.00	210	27.4	-60.6
5	0.2432	-39.7 PK	39.9	-79.6	1.00	178	20.4	-60.1
6	0.2432	-50.5 AV	19.9	-70.4	1.00	178	9.6	-60.1
7	0.2554	-33.5 PK	39.5	-73.0	1.00	325	26.7	-60.2
8	0.2554	-45.1 AV	19.5	-64.6	1.00	325	15.1	-60.2
9	5.24	-7.3 QP	29.5	-36.8	1.00	88	12.5	-19.8
10	8.46	-8.6 QP	29.5	-38.1	1.00	209	10.3	-18.9
11	12.56	-6.9 QP	29.5	-36.4	1.00	21	11.5	-18.4
12	16.54	-8.0 QP	29.5	-37.5	1.00	20	10.2	-18.2
13	20.41	-7.6 QP	29.5	-37.1	1.00	159	10.4	-18.0
14	23.66	-8.0 QP	29.5	-37.5	1.00	198	10.5	-18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

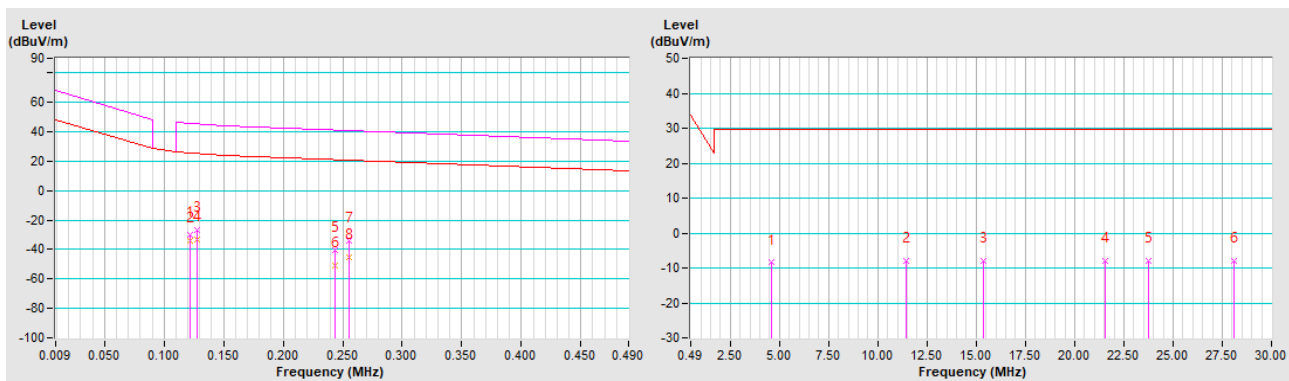


Test Frequency	127.7kHz + 121.6kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	D		

Antenna Polarity : Perpendicular								
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	*0.1216	-29.6 PK	45.9	-75.5	1.00	238	31.0	-60.6
2	*0.1216	-33.7 AV	25.9	-59.6	1.00	238	26.9	-60.6
3	*0.1277	-26.4 PK	45.5	-71.9	1.00	141	34.2	-60.6
4	*0.1277	-32.8 AV	25.5	-58.3	1.00	141	27.8	-60.6
5	0.2432	-40.1 PK	39.9	-80.0	1.00	177	20.0	-60.1
6	0.2432	-51.0 AV	19.9	-70.9	1.00	177	9.1	-60.1
7	0.2554	-33.7 PK	39.5	-73.2	1.00	236	26.5	-60.2
8	0.2554	-45.2 AV	19.5	-64.7	1.00	236	15.0	-60.2
9	4.59	-8.5 QP	29.5	-38.0	1.00	226	11.6	-20.1
10	11.41	-7.9 QP	29.5	-37.4	1.00	190	10.5	-18.4
11	15.39	-7.9 QP	29.5	-37.4	1.00	110	10.6	-18.5
12	21.56	-8.0 QP	29.5	-37.5	1.00	136	10.2	-18.2
13	23.77	-8.0 QP	29.5	-37.5	1.00	177	10.4	-18.4
14	28.08	-7.8 QP	29.5	-37.3	1.00	202	10.1	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

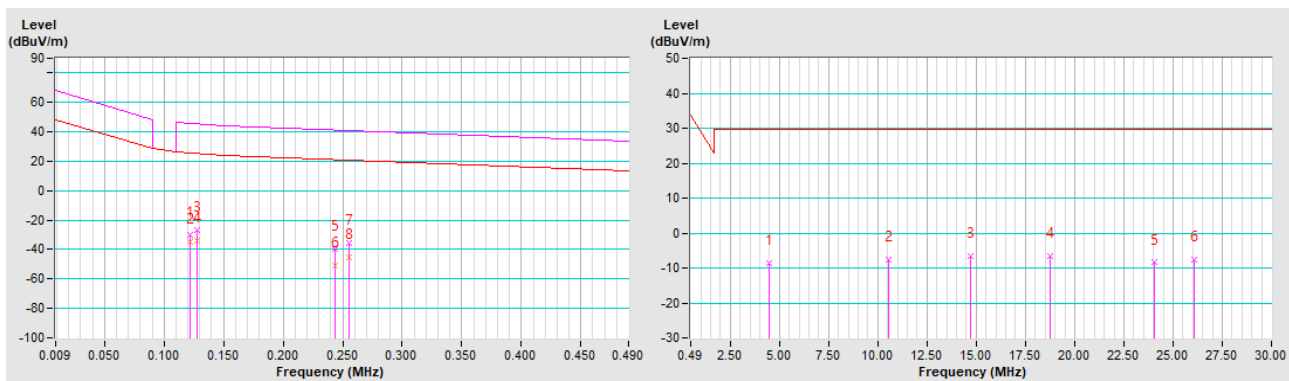


Test Frequency	127.7kHz + 121.6kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	D		

Antenna Polarity : Ground-parallel								
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	*0.1216	-30.2 PK	45.9	-76.1	1.00	247	30.4	-60.6
2	*0.1216	-35.0 AV	25.9	-60.9	1.00	247	25.6	-60.6
3	*0.1277	-26.4 PK	45.5	-71.9	1.00	198	34.2	-60.6
4	*0.1277	-33.9 AV	25.5	-59.4	1.00	198	26.7	-60.6
5	0.2432	-40.0 PK	39.9	-79.9	1.00	78	20.1	-60.1
6	0.2432	-51.1 AV	19.9	-71.0	1.00	78	9.0	-60.1
7	0.2554	-35.2 PK	39.5	-74.7	1.00	208	25.0	-60.2
8	0.2554	-45.4 AV	19.5	-64.9	1.00	208	14.8	-60.2
9	4.50	-8.8 QP	29.5	-38.3	1.00	150	11.3	-20.1
10	10.55	-7.5 QP	29.5	-37.0	1.00	248	11.0	-18.5
11	14.68	-6.7 QP	29.5	-36.2	1.00	82	11.9	-18.6
12	18.73	-6.5 QP	29.5	-36.0	1.00	18	11.3	-17.8
13	24.07	-8.5 QP	29.5	-38.0	1.00	34	9.8	-18.3
14	26.05	-7.6 QP	29.5	-37.1	1.00	114	10.4	-18.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

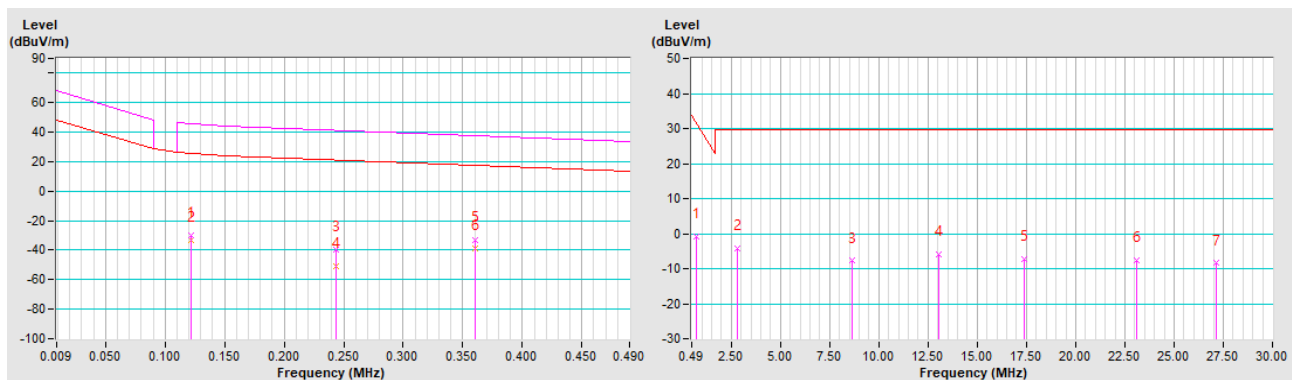


Test Frequency	121.6kHz + 360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)
Test Mode	E		

Antenna Polarity : Parallel								
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	*0.1216	-29.6 PK	45.9	-75.5	1.00	157	31.0	-60.6
2	*0.1216	-33.5 AV	25.9	-59.4	1.00	157	27.1	-60.6
3	0.2432	-39.8 PK	39.9	-79.7	1.00	321	20.3	-60.1
4	0.2432	-50.9 AV	19.9	-70.8	1.00	321	9.2	-60.1
5	*0.3600	-33.5 PK	36.5	-70.0	1.00	33	26.7	-60.2
6	*0.3600	-38.8 AV	16.5	-55.3	1.00	33	21.4	-60.2
7	0.72	-0.7 QP	30.5	-31.2	1.00	132	19.5	-20.2
8	2.79	-4.3 QP	29.5	-33.8	1.00	114	16.2	-20.5
9	8.66	-7.8 QP	29.5	-37.3	1.00	18	11.1	-18.9
10	13.06	-6.1 QP	29.5	-35.6	1.00	106	12.4	-18.5
11	17.37	-7.2 QP	29.5	-36.7	1.00	9	10.8	-18.0
12	23.12	-7.7 QP	29.5	-37.2	1.00	80	10.9	-18.6
13	27.17	-8.5 QP	29.5	-38.0	1.00	15	9.3	-17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

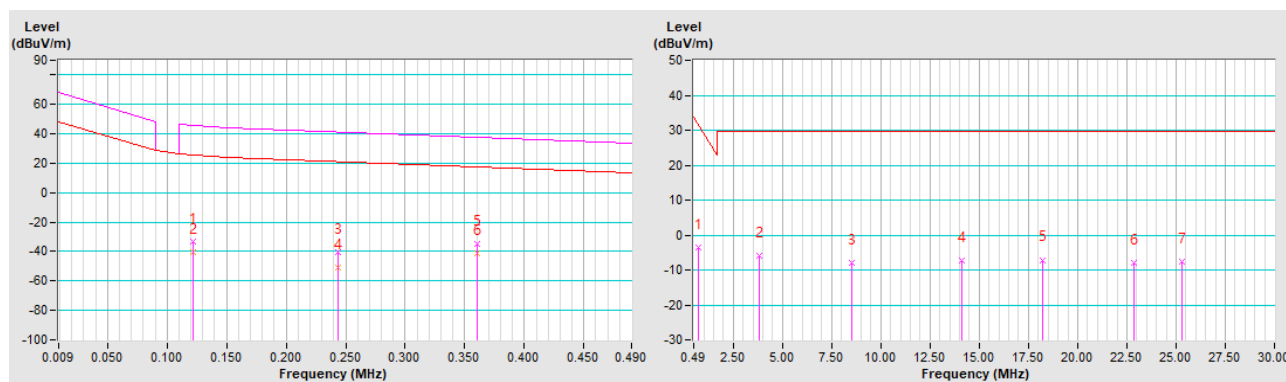


Test Frequency	121.6kHz + 360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	E		

Antenna Polarity : Perpendicular								
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	*0.1216	-32.8 PK	45.9	-78.7	1.00	157	27.8	-60.6
2	*0.1216	-40.8 AV	25.9	-66.7	1.00	157	19.8	-60.6
3	0.2432	-40.6 PK	39.9	-80.5	1.00	288	19.5	-60.1
4	0.2432	-51.0 AV	19.9	-70.9	1.00	288	9.1	-60.1
5	*0.3600	-34.5 PK	36.5	-71.0	1.00	163	25.7	-60.2
6	*0.3600	-41.2 AV	16.5	-57.7	1.00	163	19.0	-60.2
7	0.72	-3.7 QP	30.5	-34.2	1.00	224	16.5	-20.2
8	3.80	-6.0 QP	29.5	-35.5	1.00	41	14.3	-20.3
9	8.55	-8.1 QP	29.5	-37.6	1.00	352	10.8	-18.9
10	14.09	-7.3 QP	29.5	-36.8	1.00	16	11.4	-18.7
11	18.20	-7.1 QP	29.5	-36.6	1.00	71	10.8	-17.9
12	22.86	-8.0 QP	29.5	-37.5	1.00	35	10.5	-18.5
13	25.28	-7.5 QP	29.5	-37.0	1.00	16	10.1	-17.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

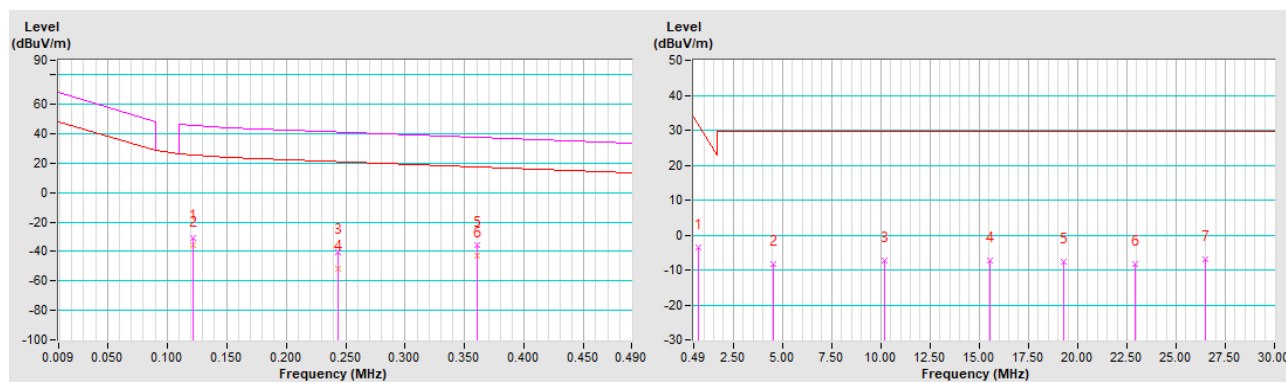


Test Frequency	121.6kHz + 360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV)
			Quasi-Peak (QP)
Test Mode	E		

Antenna Polarity : Ground-parallel								
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	*0.1216	-30.4 PK	45.9	-76.3	1.00	146	30.2	-60.6
2	*0.1216	-35.3 AV	25.9	-61.2	1.00	146	25.3	-60.6
3	0.2432	-40.1 PK	39.9	-80.0	1.00	278	20.0	-60.1
4	0.2432	-51.4 AV	19.9	-71.3	1.00	278	8.7	-60.1
5	*0.3600	-35.7 PK	36.5	-72.2	1.00	332	24.5	-60.2
6	*0.3600	-42.7 AV	16.5	-59.2	1.00	332	17.5	-60.2
7	0.72	-3.5 QP	30.5	-34.0	1.00	221	16.7	-20.2
8	4.53	-8.4 QP	29.5	-37.9	1.00	293	11.7	-20.1
9	10.17	-7.3 QP	29.5	-36.8	1.00	290	11.3	-18.6
10	15.54	-7.4 QP	29.5	-36.9	1.00	285	11.1	-18.5
11	19.32	-7.5 QP	29.5	-37.0	1.00	18	10.3	-17.8
12	22.92	-8.3 QP	29.5	-37.8	1.00	260	10.3	-18.6
13	26.49	-7.1 QP	29.5	-36.6	1.00	176	10.8	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

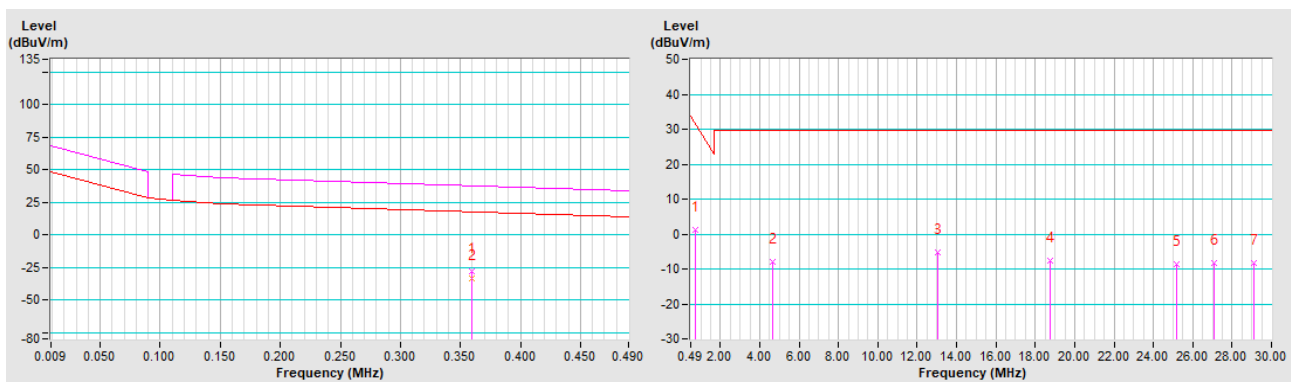


Test Frequency	360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	F		

Antenna Polarity : Parallel								
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	-28.0 PK	36.5	-64.5	1.00	133	32.2	-60.2
2	*0.3600	-33.4 AV	16.5	-49.9	1.00	133	26.8	-60.2
3	0.72	1.1 QP	30.5	-29.4	1.00	2	21.3	-20.2
4	4.68	-8.0 QP	29.5	-37.5	1.00	165	12.1	-20.1
5	13.06	-5.1 QP	29.5	-34.6	1.00	2	13.4	-18.5
6	18.73	-7.6 QP	29.5	-37.1	1.00	112	10.2	-17.8
7	25.19	-8.5 QP	29.5	-38.0	1.00	77	9.0	-17.5
8	27.08	-8.2 QP	29.5	-37.7	1.00	2	9.6	-17.8
9	29.09	-8.2 QP	29.5	-37.7	1.00	120	9.7	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

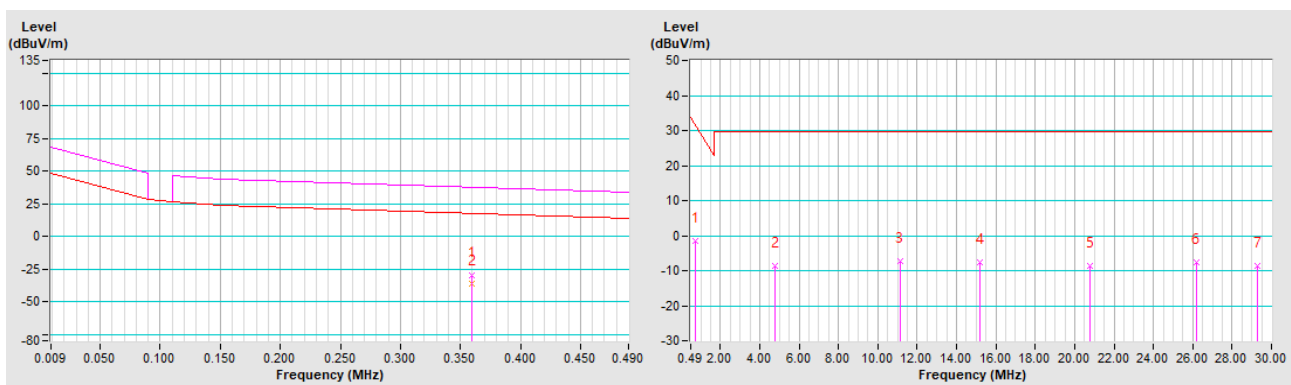


Test Frequency	360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	F		

Antenna Polarity : Perpendicular								
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	-29.5 PK	36.5	-66.0	1.00	238	30.7	-60.2
2	*0.3600	-36.1 AV	16.5	-52.6	1.00	238	24.1	-60.2
3	0.72	-1.5 QP	30.5	-32.0	1.00	276	18.7	-20.2
4	4.77	-8.6 QP	29.5	-38.1	1.00	110	11.5	-20.1
5	11.11	-7.3 QP	29.5	-36.8	1.00	22	11.1	-18.4
6	15.16	-7.6 QP	29.5	-37.1	1.00	348	11.0	-18.6
7	20.79	-8.8 QP	29.5	-38.3	1.00	138	9.3	-18.1
8	26.16	-7.6 QP	29.5	-37.1	1.00	217	10.4	-18.0
9	29.29	-8.6 QP	29.5	-38.1	1.00	296	9.4	-18.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

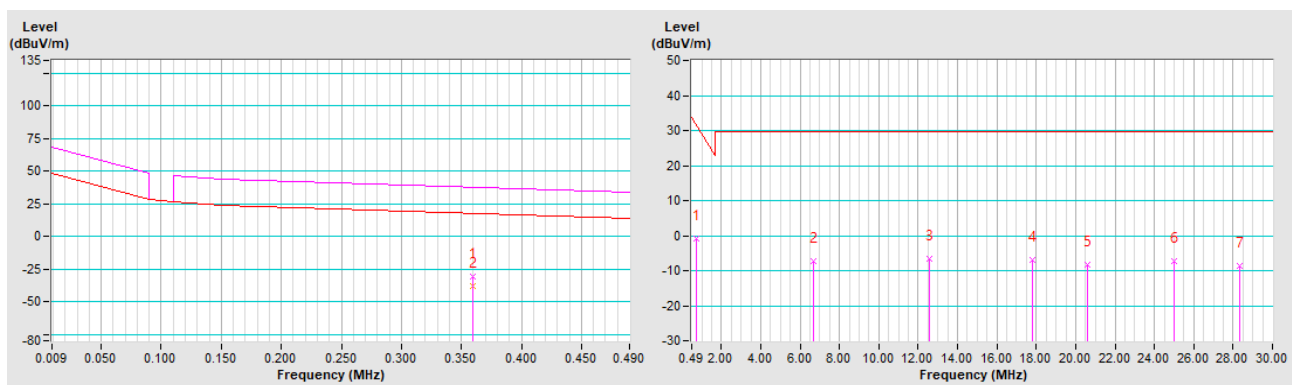


Test Frequency	360.0kHz	Detector Function	Peak (PK)
Frequency Range	9 kHz ~ 30 MHz		Average (AV) Quasi-Peak (QP)
Test Mode	F		

Antenna Polarity : Ground-parallel								
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	-31.0 PK	36.5	-67.5	1.00	132	29.2	-60.2
2	*0.3600	-38.1 AV	16.5	-54.6	1.00	132	22.1	-60.2
3	0.72	-0.9 QP	30.5	-31.4	1.00	243	19.3	-20.2
4	6.66	-7.5 QP	29.5	-37.0	1.00	24	11.3	-18.8
5	12.59	-6.7 QP	29.5	-36.2	1.00	2	11.7	-18.4
6	17.81	-6.8 QP	29.5	-36.3	1.00	296	11.1	-17.9
7	20.59	-8.2 QP	29.5	-37.7	1.00	134	9.9	-18.1
8	24.98	-7.1 QP	29.5	-36.6	1.00	35	10.3	-17.4
9	28.35	-8.5 QP	29.5	-38.0	1.00	139	9.4	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. The test distance for below 0.49MHz is 3m, extrapolate the measured field strength to a distance of 300meters. (Distance factor@3m = $40 \cdot \log(3/300) = -80\text{dB}$)
The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)



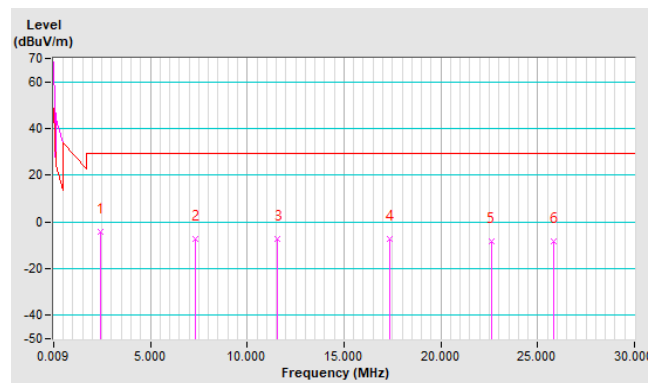
Standby Mode

Test Frequency	-	Detector Function	Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	G		

Antenna Polarity : Parallel								
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	2.44	-4.3 QP	29.5	-33.8	1.00	2	16.1	-20.4
2	7.31	-7.4 QP	29.5	-36.9	1.00	207	11.4	-18.8
3	11.59	-7.2 QP	29.5	-36.7	1.00	88	11.1	-18.3
4	17.34	-7.1 QP	29.5	-36.6	1.00	133	10.9	-18.0
5	22.59	-8.3 QP	29.5	-37.8	1.00	1	10.1	-18.4
6	25.81	-8.1 QP	29.5	-37.6	1.00	118	9.8	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. Loop antenna was used for all radiated emission below 30MHz.
6. The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

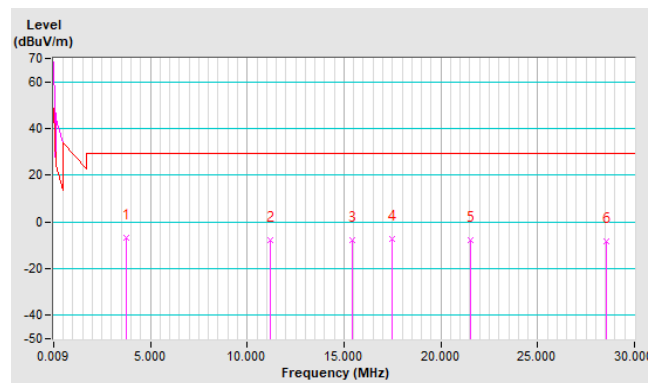


Test Frequency	-	Detector Function	Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	G		

Antenna Polarity : Perpendicular								
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	3.74	-6.6 QP	29.5	-36.1	1.00	18	13.7	-20.3
2	11.17	-7.8 QP	29.5	-37.3	1.00	85	10.6	-18.4
3	15.42	-7.7 QP	29.5	-37.2	1.00	82	10.8	-18.5
4	17.46	-7.1 QP	29.5	-36.6	1.00	203	10.9	-18.0
5	21.56	-7.7 QP	29.5	-37.2	1.00	98	10.5	-18.2
6	28.55	-8.3 QP	29.5	-37.8	1.00	216	9.6	-17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. Loop antenna was used for all radiated emission below 30MHz.
6. The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)

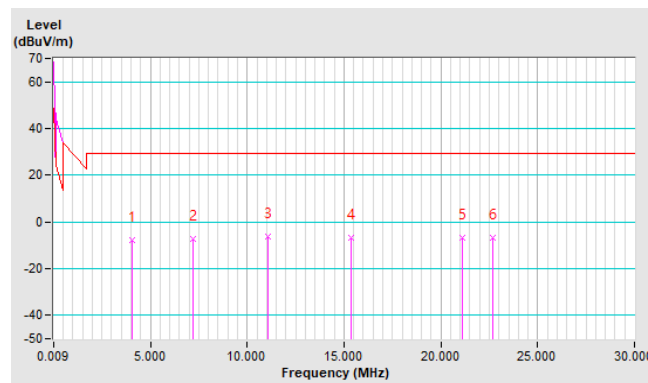


Test Frequency	-	Detector Function	Quasi-Peak (QP)
Frequency Range	9 kHz ~ 30 MHz		
Test Mode	G		

Antenna Polarity : Ground-parallel								
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	4.03	-7.6 QP	29.5	-37.1	1.00	286	12.6	-20.2
2	7.19	-7.4 QP	29.5	-36.9	1.00	2	11.4	-18.8
3	11.05	-6.5 QP	29.5	-36.0	1.00	87	11.9	-18.4
4	15.36	-7.0 QP	29.5	-36.5	1.00	192	11.5	-18.5
5	21.12	-6.9 QP	29.5	-36.4	1.00	176	11.3	-18.2
6	22.71	-6.9 QP	29.5	-36.4	1.00	136	11.6	-18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Distance Factor (dB) + 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. Loop antenna was used for all radiated emission below 30MHz.
6. The test distance for 0.49 ~ 30MHz is 3m, extrapolate the measured field strength to a distance of 30 meters. (Distance factor@3m = $40 \cdot \log(3/30) = -40\text{dB}$)



Below 1GHz Data:

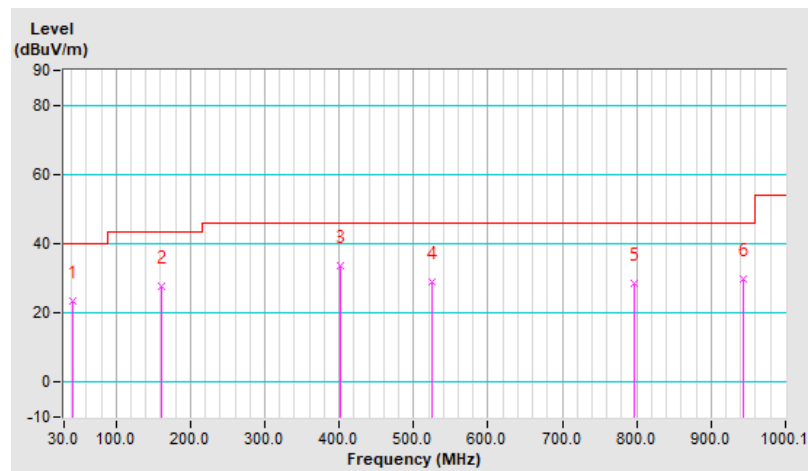
Charging Mode

Test Frequency	360.0kHz	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	41.64	23.4 QP	40.0	-16.6	1.49 H	72	35.7	-12.3
2	161.93	27.7 QP	43.5	-15.8	1.68 H	96	40.3	-12.6
3	402.52	33.8 QP	46.0	-12.2	1.73 H	178	43.3	-9.5
4	524.75	28.8 QP	46.0	-17.2	1.99 H	214	35.2	-6.4
5	796.38	28.4 QP	46.0	-17.6	1.02 H	339	29.9	-1.5
6	942.86	29.9 QP	46.0	-16.1	1.11 H	155	30.4	-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

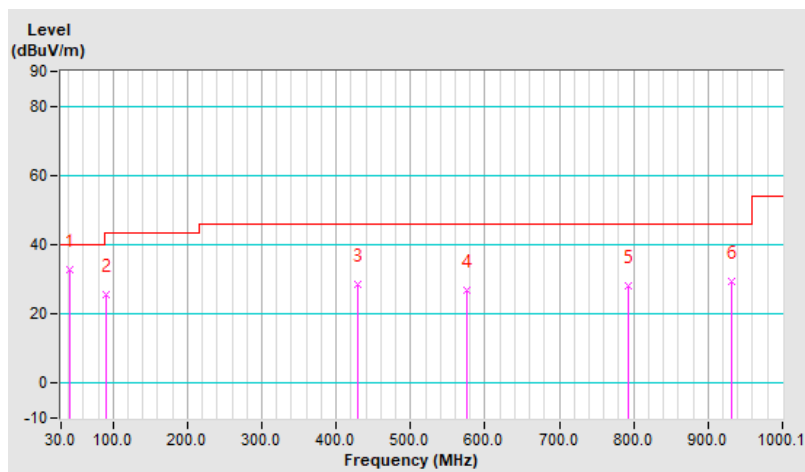


Test Frequency	360.0kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	A		

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	41.64	32.9 QP	40.0	-7.1	1.23 V	120	45.2	-12.3
2	91.12	25.4 QP	43.5	-18.1	1.46 V	210	43.4	-18.0
3	428.71	28.4 QP	46.0	-17.6	1.78 V	160	37.1	-8.7
4	575.20	26.8 QP	46.0	-19.2	1.06 V	115	32.8	-6.0
5	792.50	28.0 QP	46.0	-18.0	1.66 V	248	29.6	-1.6
6	931.22	29.2 QP	46.0	-16.8	1.08 V	274	29.9	-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

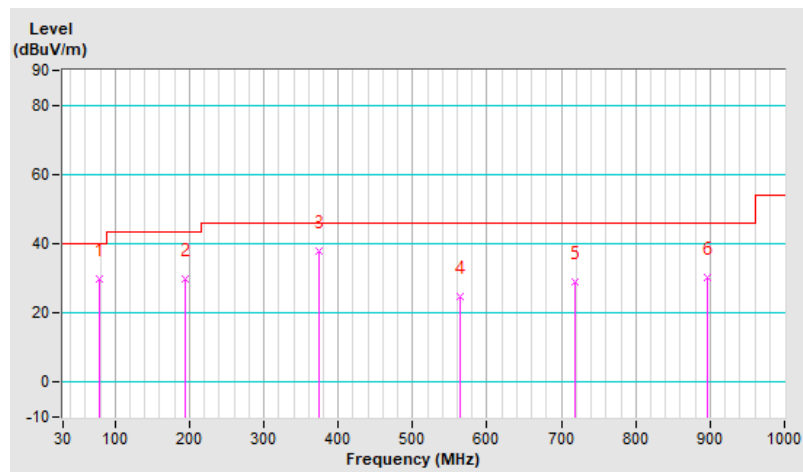


Test Frequency	121.6kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	78.50	29.7 QP	40.0	-10.3	2.00 H	18	46.7	-17.0
2	193.93	29.8 QP	43.5	-13.7	1.00 H	88	45.5	-15.7
3	374.35	38.0 QP	46.0	-8.0	1.50 H	175	48.3	-10.3
4	564.47	24.7 QP	46.0	-21.3	1.00 H	194	30.7	-6.0
5	717.73	29.1 QP	46.0	-16.9	2.00 H	112	31.9	-2.8
6	897.18	30.1 QP	46.0	-15.9	2.00 H	192	30.9	-0.8

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

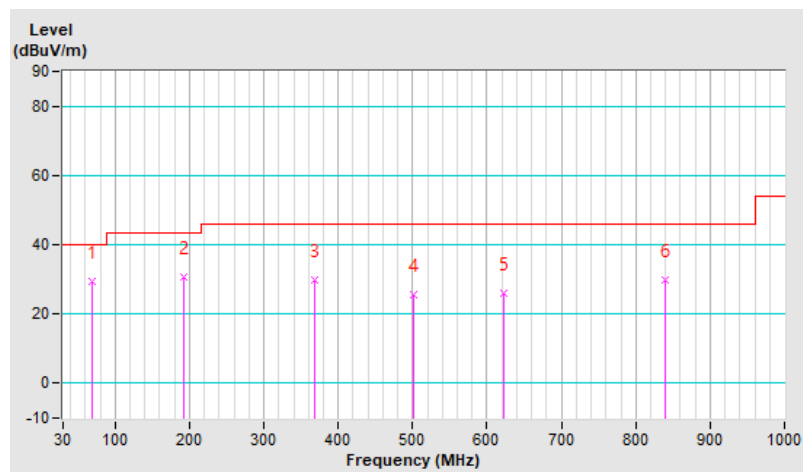


Test Frequency	121.6kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	B		

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	69.77	29.3 QP	40.0	-10.7	1.50 V	217	44.1	-14.8
2	192.96	30.7 QP	43.5	-12.8	1.00 V	5	46.2	-15.5
3	367.56	29.7 QP	46.0	-16.3	1.00 V	161	40.2	-10.5
4	501.42	25.5 QP	46.0	-20.5	1.00 V	233	32.4	-6.9
5	622.67	25.9 QP	46.0	-20.1	1.00 V	280	30.4	-4.5
6	838.98	29.8 QP	46.0	-16.2	1.50 V	38	30.7	-0.9

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

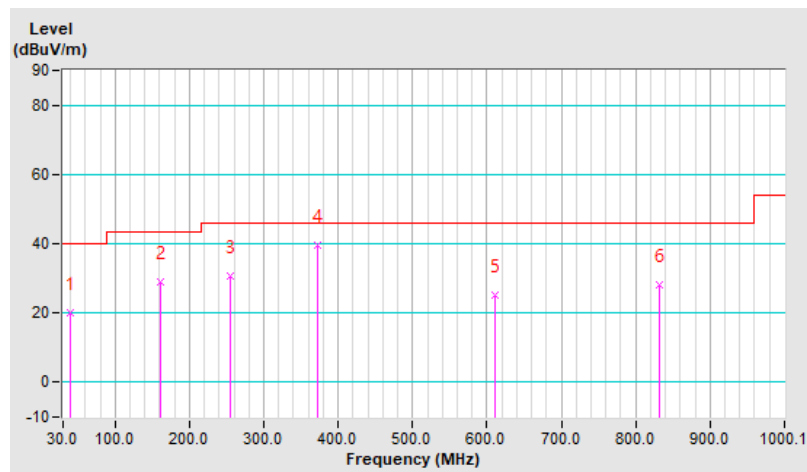


Test Frequency	127.7kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	40.67	20.2 QP	40.0	-19.8	1.05 H	44	32.6	-12.4
2	160.96	29.0 QP	43.5	-14.5	1.22 H	112	41.6	-12.6
3	254.09	30.8 QP	46.0	-15.2	1.49 H	251	44.2	-13.4
4	371.48	39.5 QP	46.0	-6.5	1.01 H	232	49.5	-10.0
5	611.09	25.0 QP	46.0	-21.0	1.86 H	211	30.1	-5.1
6	832.27	28.0 QP	46.0	-18.0	1.33 H	2	29.5	-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

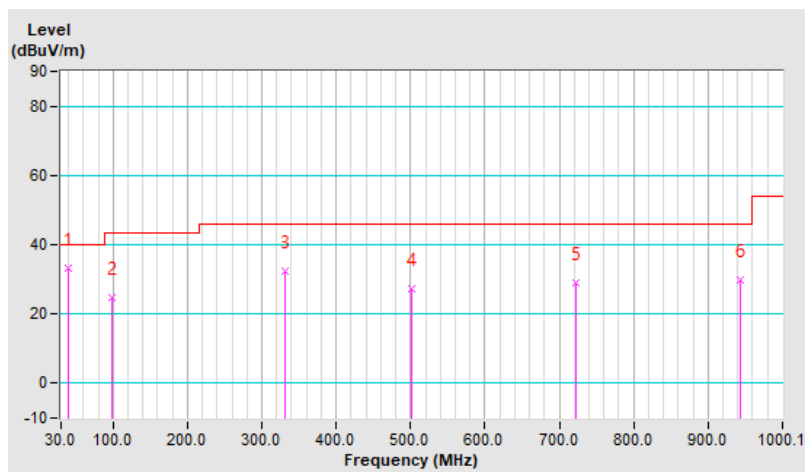


Test Frequency	127.7kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	C		

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	39.70	33.2 QP	40.0	-6.8	1.01 V	2	45.8	-12.6
2	97.91	24.6 QP	43.5	-18.9	1.64 V	294	41.8	-17.2
3	331.70	32.2 QP	46.0	-13.8	1.22 V	177	43.2	-11.0
4	500.50	27.5 QP	46.0	-18.5	1.83 V	2	34.4	-6.9
5	722.65	28.9 QP	46.0	-17.1	1.79 V	27	32.2	-3.3
6	942.86	29.7 QP	46.0	-16.3	1.32 V	2	30.2	-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

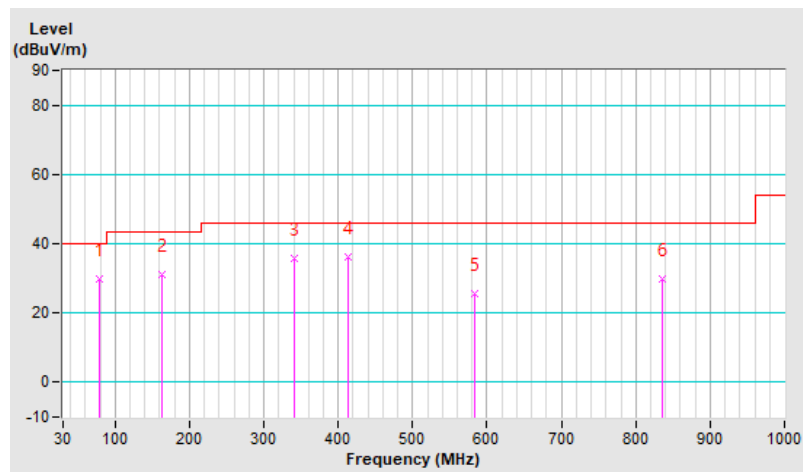


Test Frequency	127.7kHz + 121.6kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

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	78.50	30.0 QP	40.0	-10.0	2.00 H	2	47.0	-17.0
2	162.89	31.3 QP	43.5	-12.2	1.00 H	113	44.1	-12.8
3	341.37	35.9 QP	46.0	-10.1	1.00 H	179	47.2	-11.3
4	414.12	36.2 QP	46.0	-9.8	1.50 H	4	45.5	-9.3
5	583.87	25.5 QP	46.0	-20.5	1.50 H	68	30.9	-5.4
6	836.07	30.0 QP	46.0	-16.0	2.00 H	21	30.9	-0.9

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

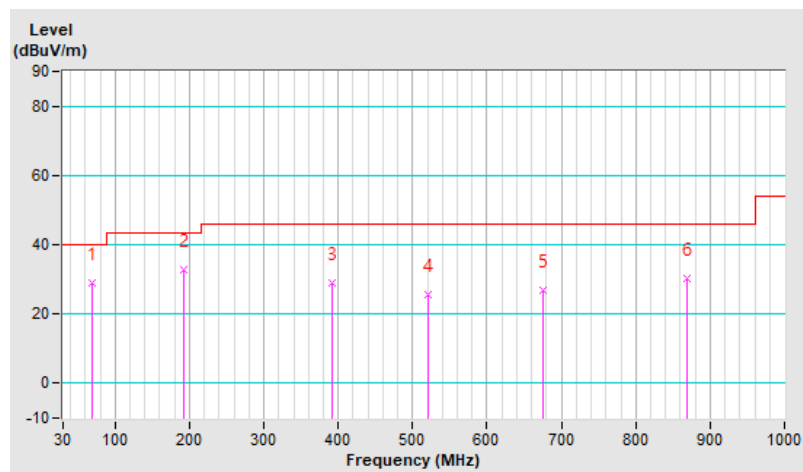


Test Frequency	127.7kHz + 121.6kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	D		

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	69.77	28.9 QP	40.0	-11.1	1.00 V	294	43.7	-14.8
2	192.96	32.8 QP	43.5	-10.7	1.50 V	40	48.3	-15.5
3	390.84	28.8 QP	46.0	-17.2	1.00 V	174	38.6	-9.8
4	521.79	25.4 QP	46.0	-20.6	2.00 V	286	31.7	-6.3
5	676.02	27.0 QP	46.0	-19.0	1.00 V	312	30.6	-3.6
6	868.08	30.2 QP	46.0	-15.8	1.50 V	98	31.0	-0.8

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

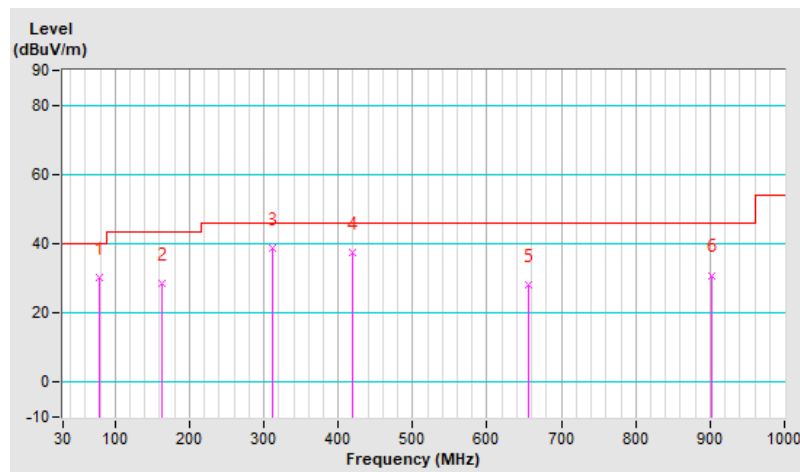


Test Frequency	121.6kHz + 360.0kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	E		

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	78.50	30.1 QP	40.0	-9.9	1.00 H	33	47.1	-17.0
2	163.86	28.4 QP	43.5	-15.1	1.00 H	114	41.2	-12.8
3	311.30	38.6 QP	46.0	-7.4	1.00 H	211	50.2	-11.6
4	418.97	37.4 QP	46.0	-8.6	1.00 H	353	46.5	-9.1
5	656.62	28.1 QP	46.0	-17.9	1.00 H	177	32.0	-3.9
6	902.03	30.9 QP	46.0	-15.1	1.00 H	149	31.6	-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

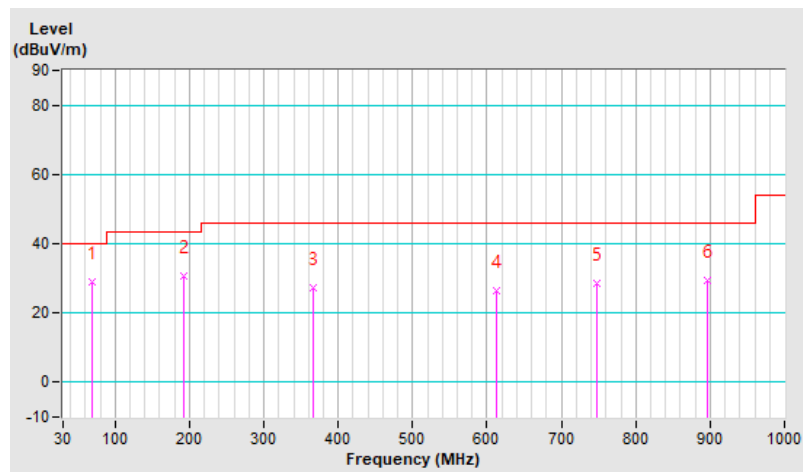


Test Frequency	121.6kHz + 360.0kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	E		

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	69.77	29.0 QP	40.0	-11.0	1.00 V	191	43.8	-14.8
2	192.96	30.8 QP	43.5	-12.7	1.00 V	137	46.3	-15.5
3	366.59	27.4 QP	46.0	-18.6	1.50 V	127	37.9	-10.5
4	612.00	26.4 QP	46.0	-19.6	1.00 V	354	31.2	-4.8
5	747.80	28.6 QP	46.0	-17.4	2.00 V	31	30.0	-1.4
6	896.21	29.6 QP	46.0	-16.4	1.50 V	163	30.4	-0.8

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

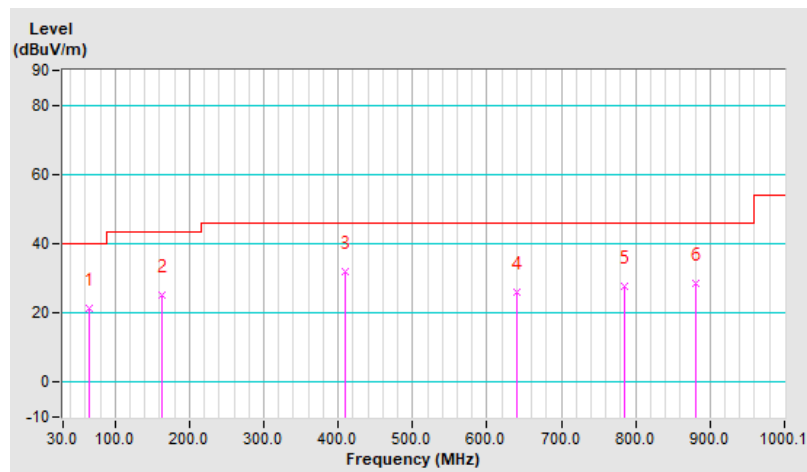


Test Frequency	360.0kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	F		

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	64.92	21.3 QP	40.0	-18.7	1.50 H	210	35.0	-13.7
2	162.90	25.1 QP	43.5	-18.4	2.00 H	275	37.9	-12.8
3	409.31	32.1 QP	46.0	-13.9	1.00 H	359	41.4	-9.3
4	640.19	25.9 QP	46.0	-20.1	2.00 H	2	30.3	-4.4
5	785.71	27.7 QP	46.0	-18.3	2.00 H	226	29.2	-1.5
6	881.75	28.6 QP	46.0	-17.4	1.00 H	145	29.8	-1.2

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

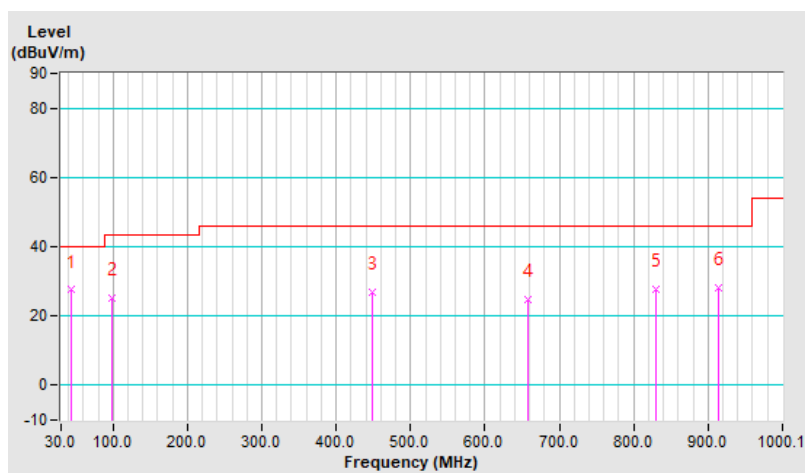


Test Frequency	360.0kHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	F		

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	43.58	27.5 QP	40.0	-12.5	2.00 V	345	39.9	-12.4
2	97.91	25.2 QP	43.5	-18.3	1.00 V	131	42.4	-17.2
3	449.08	26.7 QP	46.0	-19.3	1.50 V	150	34.8	-8.1
4	658.62	24.9 QP	46.0	-21.1	1.00 V	71	29.3	-4.4
5	829.36	27.9 QP	46.0	-18.1	1.50 V	2	29.5	-1.6
6	913.76	28.0 QP	46.0	-18.0	1.00 V	2	28.9	-0.9

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



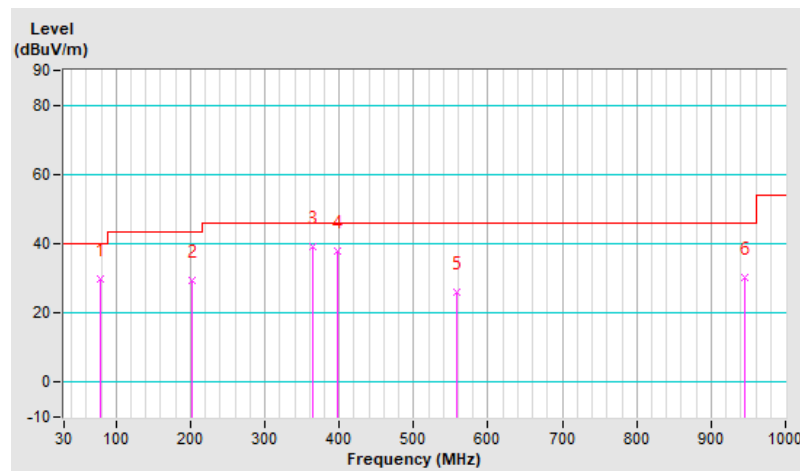
Standby Mode

Test Frequency	-	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	78.50	29.8 QP	40.0	-10.2	2.00 H	107	46.8	-17.0
2	201.69	29.6 QP	43.5	-13.9	1.00 H	107	45.4	-15.8
3	363.68	39.1 QP	46.0	-6.9	1.00 H	195	49.8	-10.7
4	397.63	38.0 QP	46.0	-8.0	1.50 H	0	47.6	-9.6
5	558.65	25.9 QP	46.0	-20.1	1.00 H	323	32.0	-6.1
6	944.71	30.4 QP	46.0	-15.6	2.00 H	2	30.7	-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

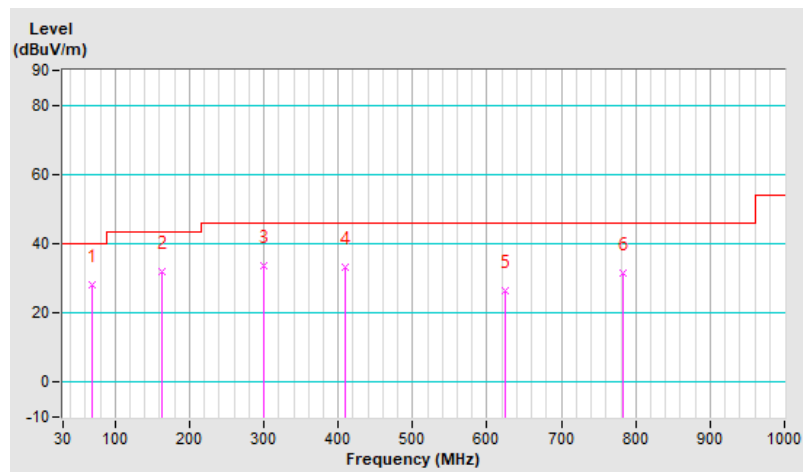


Test Frequency	-	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz		
Test Mode	G		

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	69.77	28.3 QP	40.0	-11.7	1.50 V	6	43.1	-14.8
2	162.89	31.9 QP	43.5	-11.6	1.00 V	168	44.7	-12.8
3	300.63	33.6 QP	46.0	-12.4	1.00 V	118	45.5	-11.9
4	410.24	33.1 QP	46.0	-12.9	2.00 V	147	42.5	-9.4
5	623.64	26.5 QP	46.0	-19.5	1.00 V	157	31.0	-4.5
6	782.72	31.7 QP	46.0	-14.3	1.50 V	160	32.6	-0.9

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



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 R&S	ESR3	102783	Dec. 21, 2022	Dec. 20, 2023
			Dec. 13, 2023	Dec. 12, 2024
RF Coaxial Cable WORKEN	5D-FB	Cable-cond2-01	Sep. 02, 2023	Sep. 01, 2024
LISN R&S	ESH2-Z5	100100	Mar. 07, 2023	Mar. 06, 2024
LISN R&S	ESH3-Z5	100116	Feb. 15, 2023	Feb. 14, 2024
Software BV ADT	BVADT_Conc_ 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 HY - Conduction 2.
3. The VCCI Site Registration No. is C-12047.

4.2.3 Test Procedures

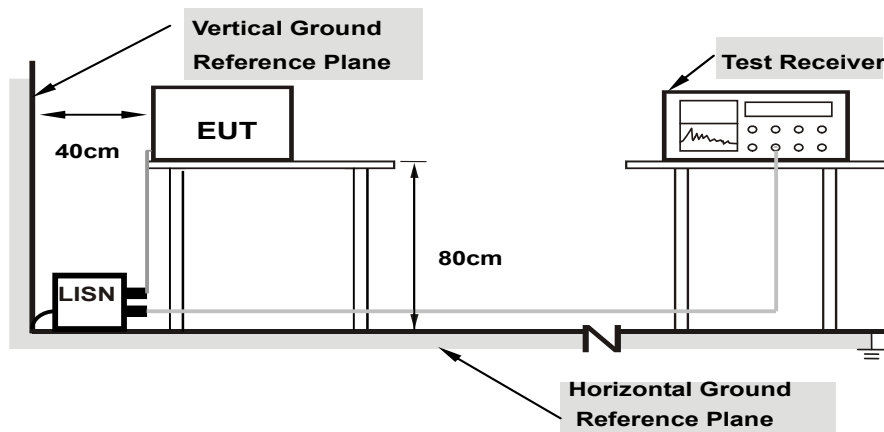
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

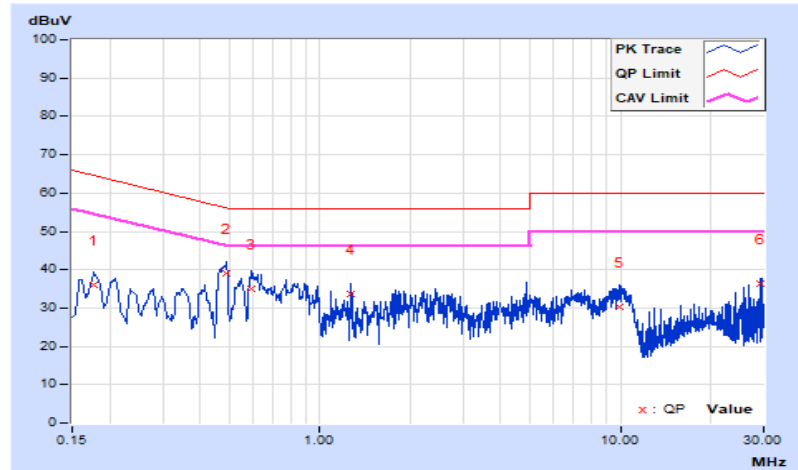
Charging Mode

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	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	0.17800	10.33	25.63	7.31	35.96	17.64	64.58	54.58	-28.62	-36.94
2	0.49000	10.42	28.61	17.06	39.03	27.48	56.17	46.17	-17.14	-18.69
3	0.59400	10.42	24.64	12.12	35.06	22.54	56.00	46.00	-20.94	-23.46
4	1.26000	10.43	23.36	3.97	33.79	14.40	56.00	46.00	-22.21	-31.60
5	9.92800	10.57	19.76	7.56	30.33	18.13	60.00	50.00	-29.67	-31.87
6	29.16800	10.49	26.02	15.72	36.51	26.21	60.00	50.00	-23.49	-23.79

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.

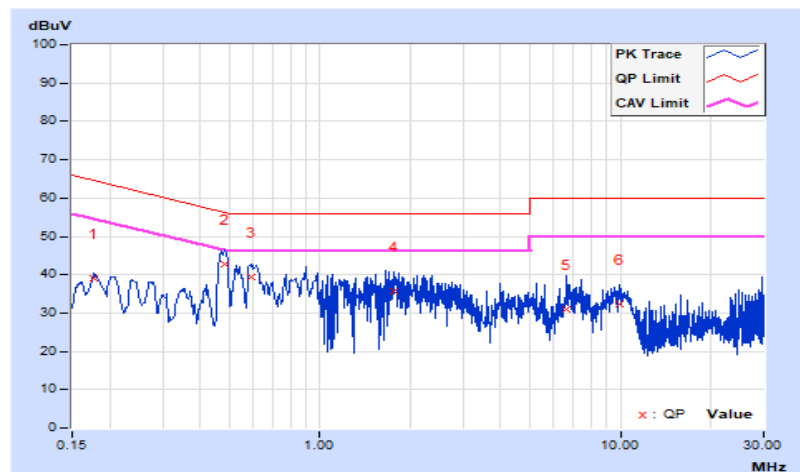


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.17800	10.35	28.74	12.77	39.09	23.12	64.58	54.58	-25.49	-31.46
2	0.48189	10.44	32.41	15.36	42.85	25.80	56.31	46.31	-13.46	-20.51
3	0.58871	10.44	29.06	12.18	39.50	22.62	56.00	46.00	-16.50	-23.38
4	1.76800	10.44	25.13	4.96	35.57	15.40	56.00	46.00	-20.43	-30.60
5	6.65200	10.60	20.29	13.24	30.89	23.84	60.00	50.00	-29.11	-26.16
6	9.99200	10.66	21.58	5.44	32.24	16.10	60.00	50.00	-27.76	-33.90

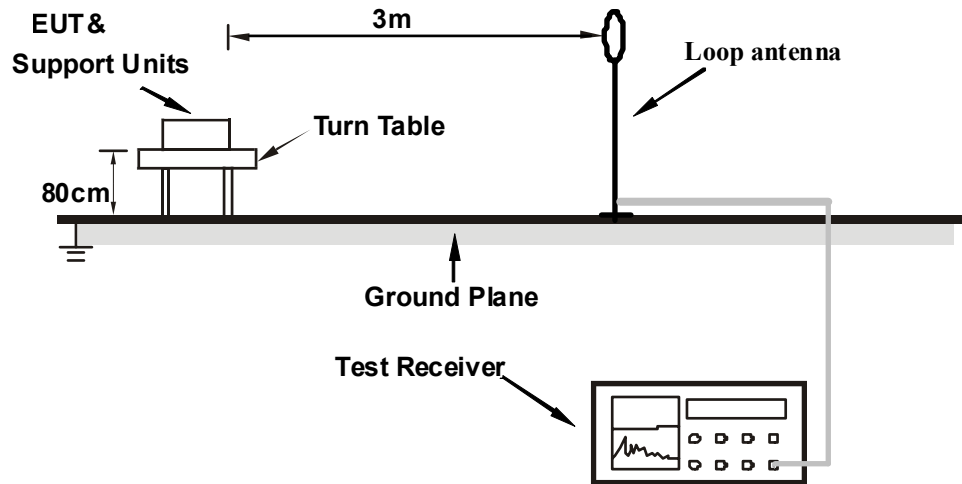
Remarks:

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.



4.3 20dB Bandwidth Measurement

4.3.1 Test SetUp



4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.3 Test Procedure

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Then the Loop antenna was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband loop antenna, which is fixed of a 1m height above the ground, and set away from 3m to the EUT to find the disturbance reading on each frequency.
- The test-receiver system was set to Peak detect function and specified bandwidth.

4.3.4 Deviation from Test Standard

No deviation.

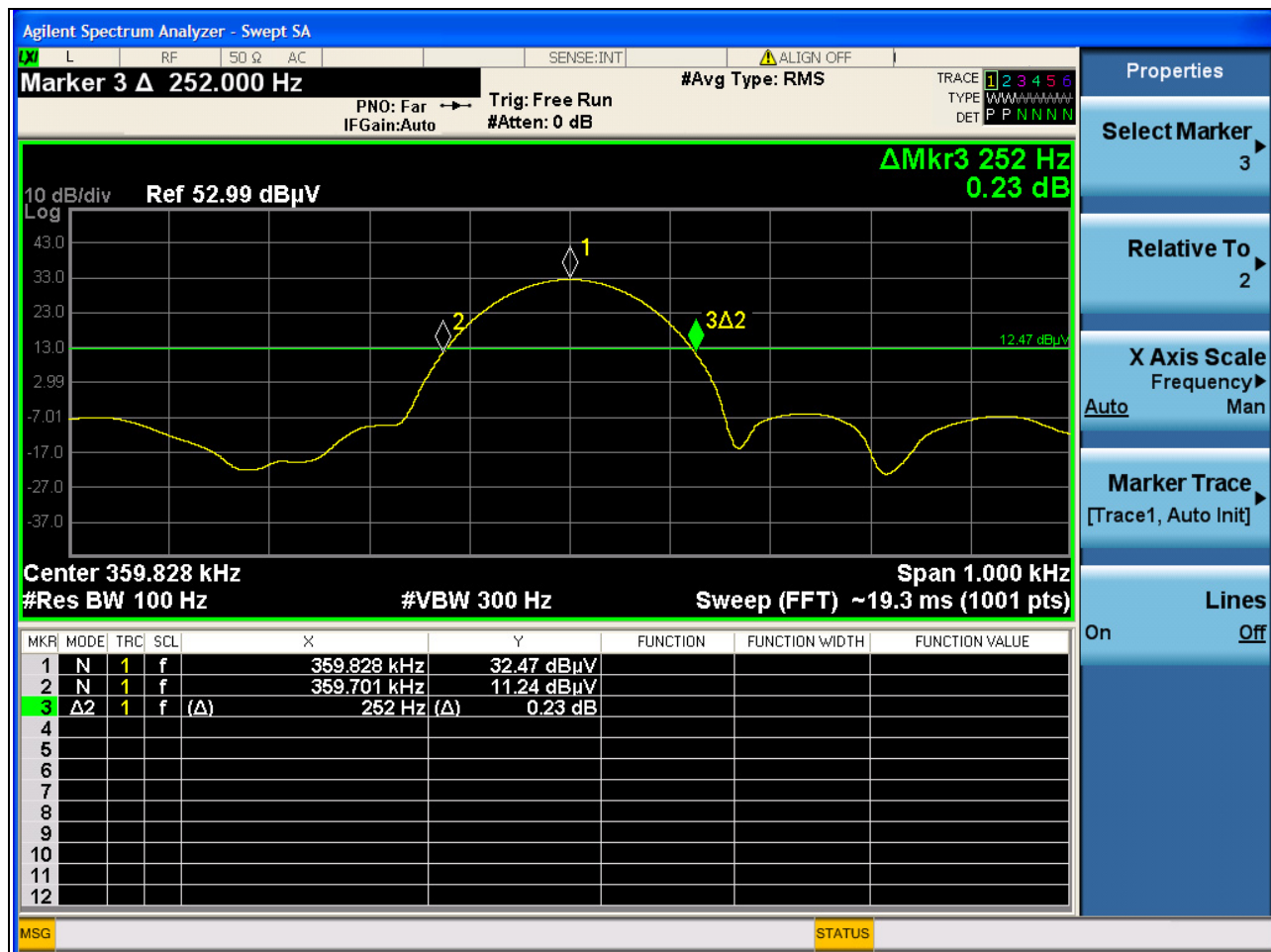
4.3.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously.

4.3.6 Test Results

Test Mode A

Frequency (kHz)	20dB Bandwidth (Hz)	Pass / Fail
360.0	252	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

Test Mode B

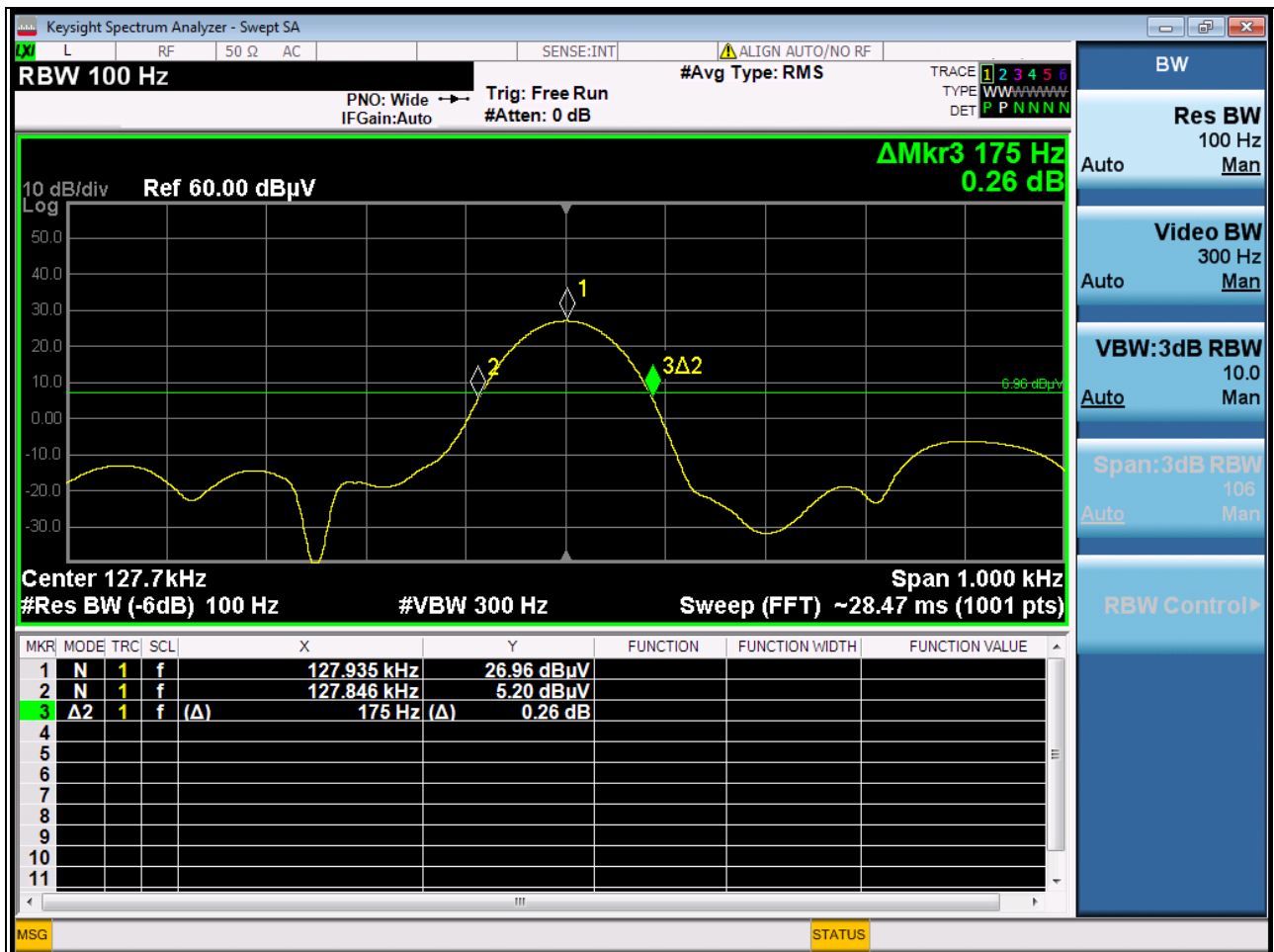
Frequency (kHz)	20dB Bandwidth (Hz)	Pass / Fail
121.6	288	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

Test Mode C

Frequency (kHz)	20dB Bandwidth (Hz)	Pass / Fail
127.7	175	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

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: <http://ee.bureauveritas.com.tw>

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

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