Certificate # 2951.01

TEST REPORT

Applicant	Belkin International, Inc.
Address:	12045 East Waterfront Drive, Playa Vista, CA 90094 USA

Manufacturer or Supplier	Belkin International, Inc.
Address	12045 East Waterfront Drive, Playa Vista, CA 90094 USA
Product	BoostCharge Pro Magnetic Wireless Charging Pad
Brand Name	belkin
Model	WIA011
Additional Model & Model Difference:	N/A
Date of tests	Dec. 20, 2024 ~ Jan. 10, 2025

the tests have been carried out according to the requirements of the following standards:

☒ **RSS-216 Issue 3: (2024-09)**
☒ **RSS-Gen Issue 5 (2021-02)**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
	 Date: Jan. 20, 2025

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.

Tel: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
IC2412WDG0137	Original release	Jan. 20, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: RSS-216, RSS Gen			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
RSS-Gen 8.8 RSS-216 6.2.2.1	Conducted Emission	PASS	Compliant
RSS-Gen 8.9 RSS-216 6.2.2.2	Radiated Emission	PASS	Compliant
RSS-Gen 6.7	Occupied Bandwidth	PASS	Compliant

2 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	UNCERTAINTY
Conducted emissions	9kHz~30MHz	3.36dB
Radiated emissions	9kHz~30MHz	2.80dB
	30MHz ~ 1GHz	4.69dB
Occupied Bandwidth	-	±5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BoostCharge Pro Magnetic Wireless Charging Pad		
MODEL NO.	WIA011		
ADDITIONAL MODE	N/A		
SAMPLE STATUS	Engineering sample		
IC	3623A-WIA011		
POWER SUPPLY	Input: 9Vdc 2.22A From Adapter		
MODULATION TYPE	FSK		
OPERATING FREQUENCY RANGE	15W Qi2 Charging Coil (MPP):127.7kHz & 360kHz		
I/O PORTS	Coil Antenna		
H-FIELD STRENGTH	-2.5dBuA/m		
MAXIMUM POWER OUTPUT FROM THE CHARGING COIL	Max Power is 15W		
CABLE SUPPLIED	See note 4		
PRODUCT SW/HW	V1.1/ V1.1		
RADIO SW/HW	V1.1/ V1.1		
TEST SW VERSION	N/A		
RF POWER SETTING IN TEST SW	N/A		
EUT CATEGORY	Applicable	EUT Type	
		Component	Type
	☐	WPT subassembly of the client	ISM
	☐	WPT subassembly of the source	Type 1 (ISM)
	☐		Type 2 (Cat. II)
	☒		Type 3 (Cat. I)
	☐	Wireless module (in the client or in the source)	Category II
	☐		Category I

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2412WDG0137-3) for detailed product photo.
4. Product cable information as follows:

ID	Descriptions	Qty.	Length (m)	Shielding (Y/N)	Cores (Qty.)	Remark
1	USB-C TO INTEGRATED WIRELESS CHARGING COIL CABLE	1	2.0	Y	0	N/A

5. Adapter information as follows：

USB-C Power Adapter		**USB-C Power Adapter**	
MODEL NO.:	CYPD20US	**MODEL NO.:**	A784-120167C-US1
BRAND NAME:	belkin	**BRAND NAME:**	belkin
INPUT:	100-240Vac, 50-60Hz, 0.5A	**INPUT:**	100-240Vac, 50-60Hz, 0.5A
OUTPUT:	5V⎓3A, 9V⎓2.22A, 12V⎓1.67A, PPS: 5V-11V⎓1.8A	**OUTPUT:**	5V⎓3A, 9V⎓2.23A, 12V⎓1.67A, PPS: 5V-11V⎓2.2A 20.0W MAX
Manufacturer	Chenyang	**Manufacturer**	Aohai

3.2 DESCRIPTION OF TEST MODES

The following test frequencies are provided to this EUT:

Configure	Mode	Operating Frequency Range(KHz)
A	Standby	/
B	iPhone 16 Pro	360

When the maximum power reach 15W for iPhone 16 Pro, the transmission frequency is 360.0KHz, when the maximum power is only 5W/7.5W for AirPods Pro Case/ iPhone 11 Pro, the transmission frequency is 127.7KHz.

the worst test mode was charging for iPhone 16 Pro.

3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, power supply voltage range and antenna ports The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION	
	RE<1G	PLC	OB	Devices	PSU
A	√	-	√	Standby	Chenyang AoHai
B	√	-	√	iPhone 16 Pro	
Remark: The PSU have 2 factories and both PSU are tested, but only the worst data is represented in the report and identified in the data.					

Where **RE<1G:** Radiated Emission below 1GHz **PLC:** Power Line Conducted Emission
OB: Occupied Bandwidth

RADIATED EMISSION TEST (BELOW 1GHZ):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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	Operating Frequency Range(kHz)	Test Frequency(kHz)	Modulation Type
A	127.7&360	/	FSK
B	127.7&360	360	FSK

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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	Operating Frequency Range(kHz)	Test Frequency(kHz)	Modulation Type
B	127.7&360	360	FSK

OCCUPIED BANDWIDTH TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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	Operating Frequency Range(kHz)	Test Frequency(kHz)	Modulation Type
B	127.7&360	360	FSK

TEST CONDITION:

Applicable to	Environmental conditions	Input Power(Adapter)	Tested by
RE<1G	22 ℃, 53% RH/25 ℃, 55% RH	120Vac, 60Hz	Albert/Ludius
PLC	25 ℃, 52RH	120Vac, 60Hz	Summer
OB	24 ℃, 58% RH	120Vac, 60Hz	Jeffery

3.4 DESCRIPTION OF SUPPORT UNITS

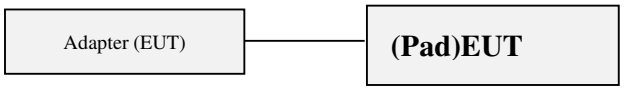
The EUT has been tested as a dependent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone 16 Pro (1#)	Apple	A3083 (MYM93LL/A)	HY9H79YM6Y	BCG-E8666A

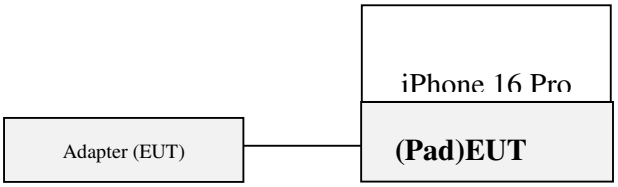
NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

3.5 CONFIGURATION OF SYSTEM UNDER TEST

Mode A: Standby



Mode B: EUT Mode with iPhone 16 Pro



3.6 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:

Canada RSS-216 Issue 3: 2024-09
Canada RSS-Gen Issue 5: 2021-02
ANSI C63.10-2013

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

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

Applicable	EUT Category	
	Component	Type
☐	WPT subassembly of the client	ISM
☐	WPT subassembly of the source	Type 1 (ISM)
☐		Type 2 (Cat. II)
☒		Type 3 (Cat. I)
Frequency Range (MHz)	Induction cooking appliance limits dB(μV)	
	Quasi-peak dB(μV)	Average dB(μV)
0.009 – 0.050	110	–
0.050 – 0.15	90 to 80 *	–
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50
Note: The more st ringent limit applies at t ransit ion frequencies. * The limit level in dBμV decreases linearly with the logarithm of frequency.		

Applicable	EUT Category	
	Component	Type
☐	Wireless module (in the client or in the source)	Category II
☐		Category I
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.

4.1.2 TEST INSTRUMENT

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Oct. 09, 25
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Oct. 10, 25
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Oct. 09, 25
Artificial Mains Network	SCHWARZBECK	NSLK 8122	8122-05001	Apr. 09, 25
V-LISN (CISPR 25)	SCHWARZBECK	NNBM 8124-200	8124-200 05857	Apr. 09, 25
V-LISN (CISPR 25)	SCHWARZBECK	NNBM 8124-200	8124-200 05858	Apr. 09, 25
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jul. 10, 25
Coaxial RF Cable	SUHNER	RG 223/U-CE	C2310066DG	Jun. 23, 25
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

NOTES: 1. The test was performed in shielded room 553.

2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

4.1.3 TEST PROCEDURE

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

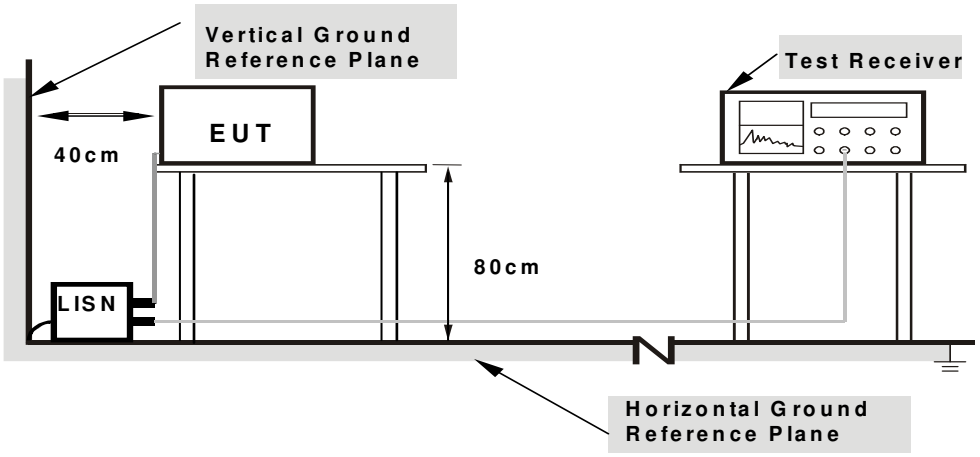
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

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.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

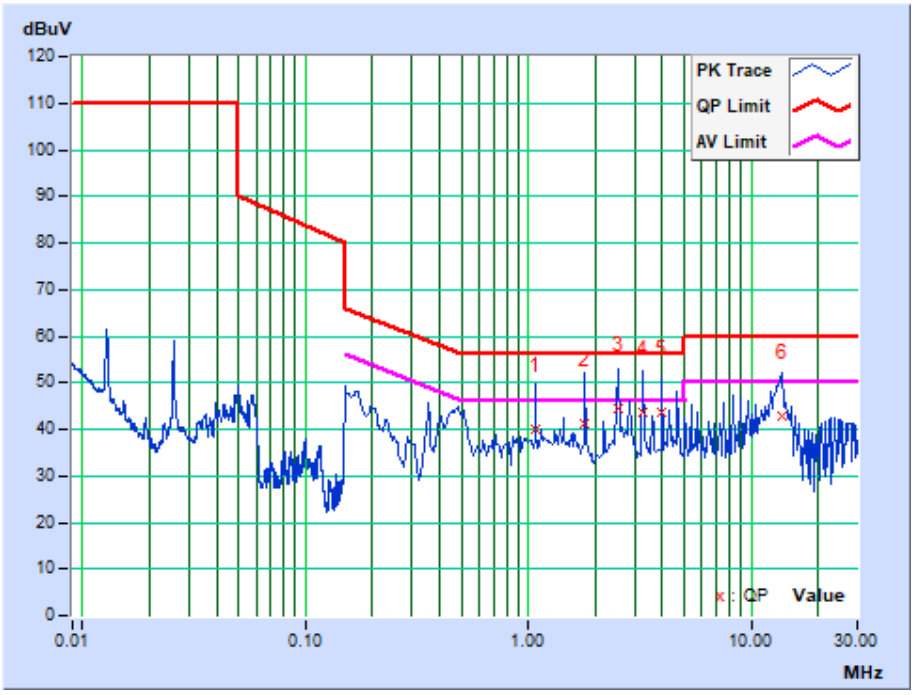
a. Turned on EUT.
b. The EUT tested in charging mode and standby mode respectively.

4.1.7 TEST RESULTS

TEST MODE	Mode B	**6DB BANDWIDTH**	9 kHz
TEST VOLTAGE	AC 120V 60Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 52% RH	**TESTED BY**	Summer
PSU	Chenyang	**TEST DATE**	2025-01-09

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	1.07700	9.89	30.11	24.81	40.00	34.70	56.00	46.00	-16.00	-11.30
2	1.79700	9.94	31.37	26.45	41.31	36.39	56.00	46.00	-14.69	-9.61
3	**2.51700**	**9.97**	**34.50**	**30.40**	**44.47**	**40.37**	**56.00**	**46.00**	**-11.53**	**-5.63**
4	3.23700	10.01	33.49	28.98	43.50	38.99	56.00	46.00	-12.50	-7.01
5	3.95700	10.04	33.71	29.76	43.75	39.80	56.00	46.00	-12.25	-6.20
6	13.67925	10.62	32.18	25.74	42.80	36.36	60.00	50.00	-17.20	-13.64

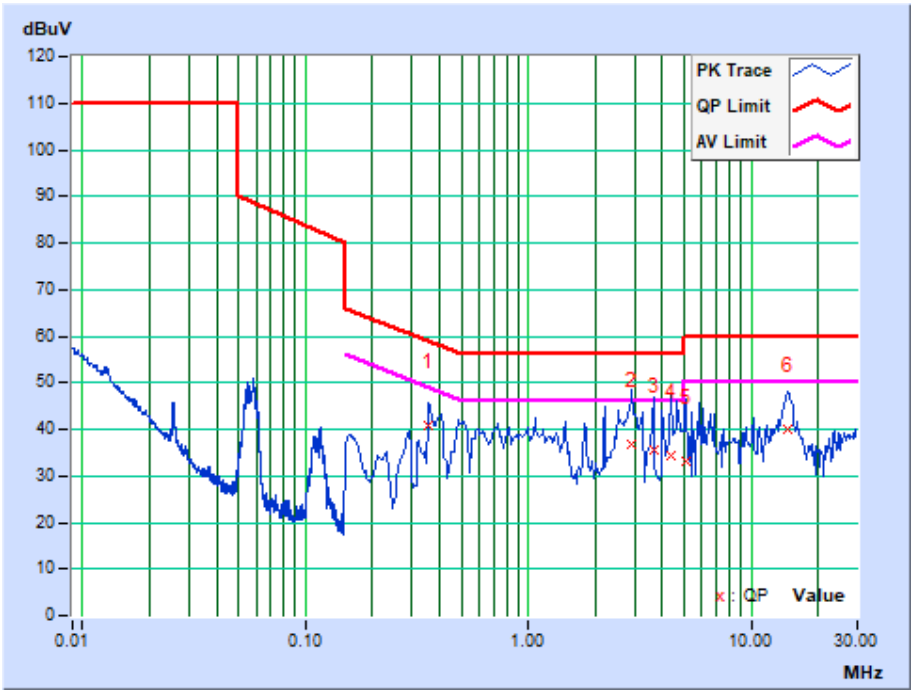
REMARKS: The emission levels of other frequencies were very low against the limit.



TEST MODE	Mode B	**6DB BANDWIDTH**	9 kHz
TEST VOLTAGE	AC 120V 60Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 52% RH	**TESTED BY**	Summer
PSU	Chenyang	**TEST DATE**	2025-01-09

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.35700	9.69	31.24	27.82	40.93	37.51	58.80	48.80	-17.87	-11.29
2	2.92875	9.85	27.07	13.29	36.92	23.14	56.00	46.00	-19.08	-22.86
3	3.66225	9.89	25.66	4.34	35.55	14.23	56.00	46.00	-20.45	-31.77
4	4.39575	9.94	24.40	8.63	34.34	18.57	56.00	46.00	-21.66	-27.43
5	5.12700	9.98	22.96	2.07	32.94	12.05	60.00	50.00	-27.06	-37.95
6	14.53875	10.66	29.14	20.35	39.80	31.01	60.00	50.00	-20.20	-18.99

REMARKS: The emission levels of other frequencies were very low against the limit.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Applicable	EUT Category	
	Component	Type
☐	WPT subassembly of the client	ISM
☐	WPT subassembly of the source	Type 1 (ISM)
☐		Type 2 (Cat. II)
☒		Type 3 (Cat. I)
Frequency Range (MHz)	Limits in dB(μA/m) at 3 m distance Quasi-peak	
0.009 – 0.070	69	
0.070 – 0.15	69 to 39 *	
0.15 – 30	39 to 7 *	
*The limit level in dB μ A/m decreases linearly with the logarithm of frequency.		

Frequency Range (MHz)	OATS or SAC * 10 m measurement distance Quasi-peak (dBμV/m)	OATS or SAC * 3 m measurement distance Quasi-peak (dBμV/m)	FAR * 3 m measurement distance Quasi-peak (dBμV/m)
30-230	30	40	42-35**
230-1000	37	47	42
Note: The more st ringent limit applies at the t ransit ion frequency. * OATS = open-area test site, SAC = semi-anechoic chamber, FAR = fully-anechoic room (see CSA CISPR 11:19). ** The limit level in dBμV/m decreases linearly with the logarithm of frequency.			

For Modular Devices when transmitters whose fundamental emission lies below 490 kHz and for which it is shown that all emissions are at least 40 dB below the general field strength limits listed in below table.

Applicable	EUT Category	
	Component	Type
☐	Wireless module (in the client or in the source)	Category II
☐		Category I
Transmitter Radiated Emissions		
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3
Receiver Radiated Emission		
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:
1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

FOR FREQUENCY 9KHz-30MHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Nov. 28, 25
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	Apr. 13, 25
Amplifier	Burgeon	BPA-530	100210	Feb. 21 25
Coaxial RF Cable	Yaohong	Cable below 30MHz	C2310019DG	Jun. 27, 25
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
3. The IC Site Registration No. is 5936A.
4. Conformity Assessment Body Identifier (CABID): CN0026

FOR FREQUENCY 30MHz-1GHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Oct. 10, 25
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 25, 25
Pre-Amplifier	Burgeon	BPA-530	100220	Feb. 21, 25
3m Semi-anechoic Chamber	Burgeon	9m*6m*6m	NSEMC003	May. 20, 25
Coaxial RF Cable(3m Below 1G)	Yaohong	966 below 1GHz	C2310017DG	Jun. 23, 25
Coaxial RF Cable(3m Below 1G)	Yaohong	966 below 1GHz	C2310087DG	Jun. 23, 25
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

NOTES: 1. The test was performed in 966 Chamber.

2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
3. The IC Site Registration No. is 5936A.
4. Conformity Assessment Body Identifier (CABID): CN0026

4.2.3 TEST PROCEDURES

Below 30MHz:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic 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. The loop center of the antenna is 1.3m from the ground. 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 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.

30MHz~1GHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. 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 antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

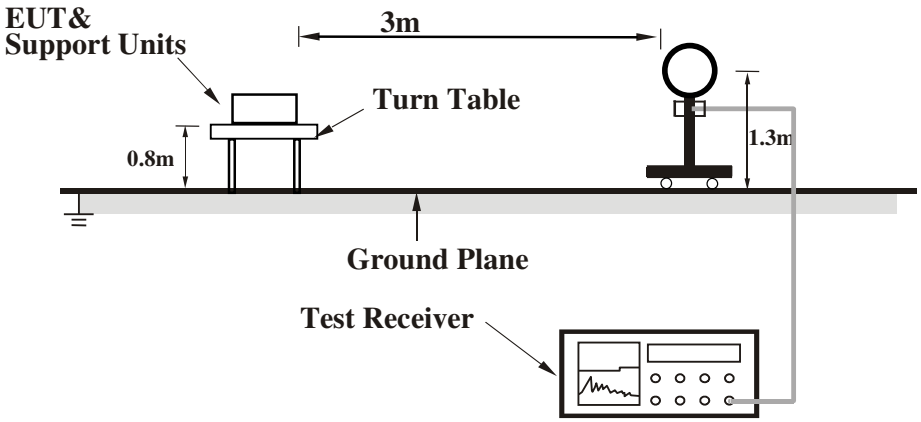
1. The resolution bandwidth of test receiver/spectrum analyzer is 200Hz for Quasi-peak detection (QP) at fundamental frequency 9K-150KHz;
2. The resolution bandwidth of test receiver/spectrum analyzer is 9KHz for Quasi-peak detection (QP) at fundamental frequency 150K-30MHz;
3. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at radiated spurious emission frequency 30MHz-1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

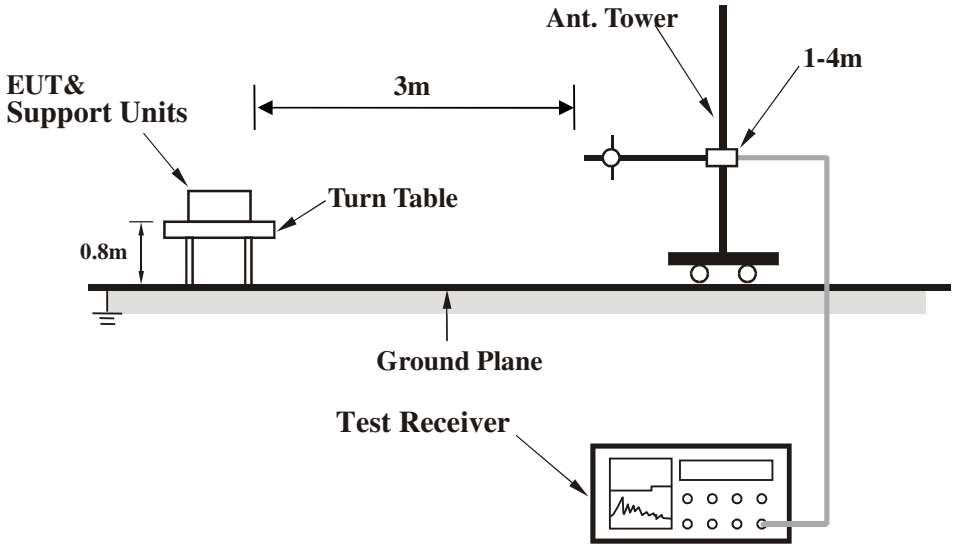
No deviation.

4.2.5 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup



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

4.2.6 EUT OPERATING CONDITIONS

a. Turn on the EUT.
b. The EUT tested in charging mode and standby mode respectively.

4.2.7 TEST RESULTS

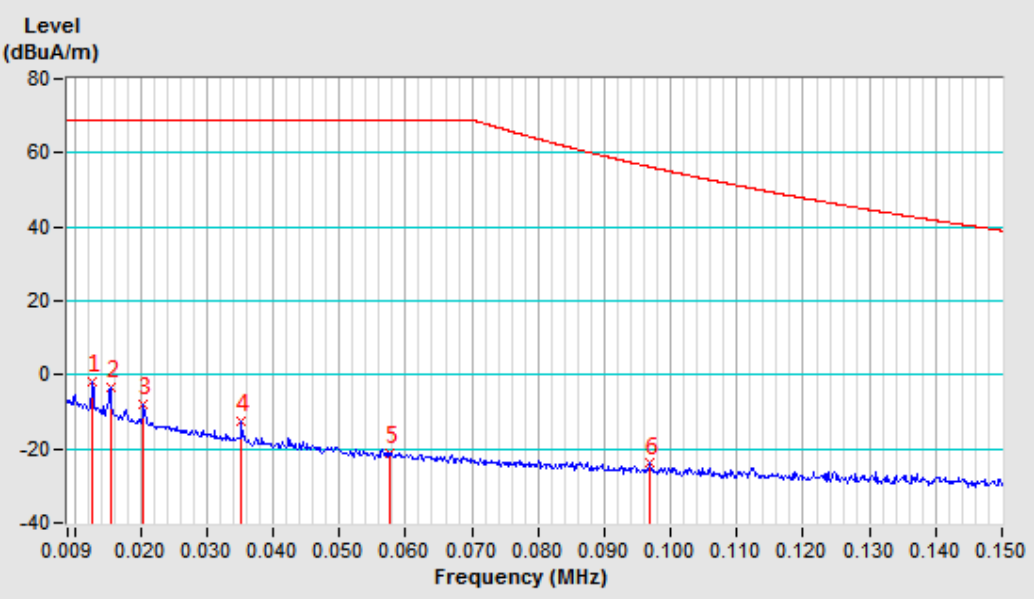
Standby Mode

Test Mode	A	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128 QP	-27.88	26.06	-1.82	69.00	-70.82	130	220
2	0.0154 QP	-28.05	24.56	-3.49	69.00	-72.49	130	210
3	0.0205 QP	-28.38	20.56	-7.82	69.00	-76.82	130	42
4	0.0352 QP	-29.05	16.60	-12.45	69.00	-81.45	130	88
5	0.0576 QP	-29.11	8.16	-20.95	69.00	-89.95	130	360
6	0.0967 QP	-29.00	5.02	-23.98	56.28	-80.26	130	182

Remarks:

1. Emission Level [dBμA/m] = Correction Factor [dBS/m] + Raw Value [dBμV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.

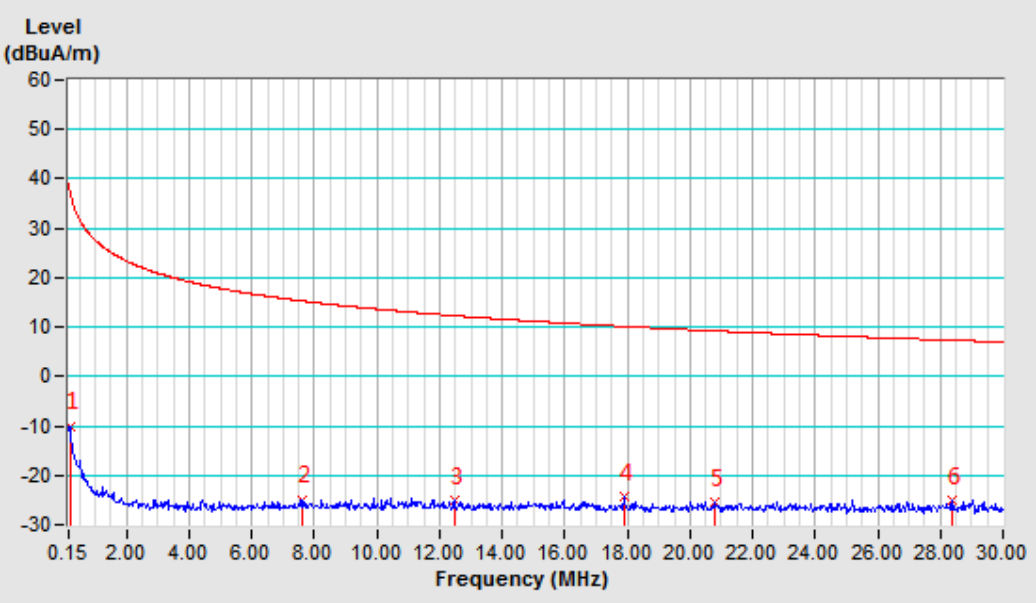


Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.2037 QP	-28.92	18.94	-9.98	37.15	-47.13	130	156
2	7.5935 QP	-28.49	3.63	-24.86	15.30	-40.16	130	9
3	12.4846 QP	-28.36	3.19	-25.17	12.29	-37.46	130	226
4	17.8788 QP	-27.88	3.56	-24.32	10.13	-34.45	130	49
5	20.7789 QP	-27.87	2.57	-25.30	9.22	-34.52	130	15
6	28.3701 QP	-27.58	2.54	-25.04	7.34	-32.38	130	343

Remarks:

1. Emission Level [dBμA/m] = Correction Factor [dBS/m] + Raw Value [dBμV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.

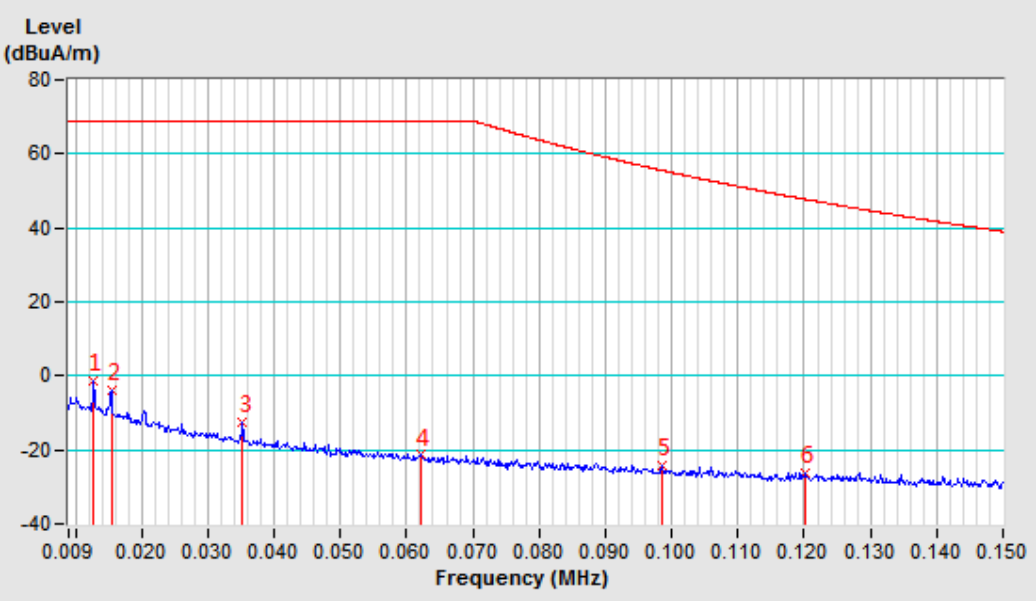


Test Mode	A	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128 QP	-27.88	26.41	-1.47	69.00	-70.47	130	189
2	0.0154 QP	-28.05	24.38	-3.67	69.00	-72.67	130	31
3	0.0353 QP	-29.05	16.57	-12.48	69.00	-81.48	130	197
4	0.0621 QP	-29.10	7.70	-21.40	69.00	-90.40	130	182
5	0.0985 QP	-28.99	4.63	-24.36	55.55	-79.91	130	60
6	0.1202 QP	-28.93	2.53	-26.40	47.71	-74.11	130	158

Remarks:

1. Emission Level [dBμA/m] = Correction Factor [dBS/m] + Raw Value [dBμV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.

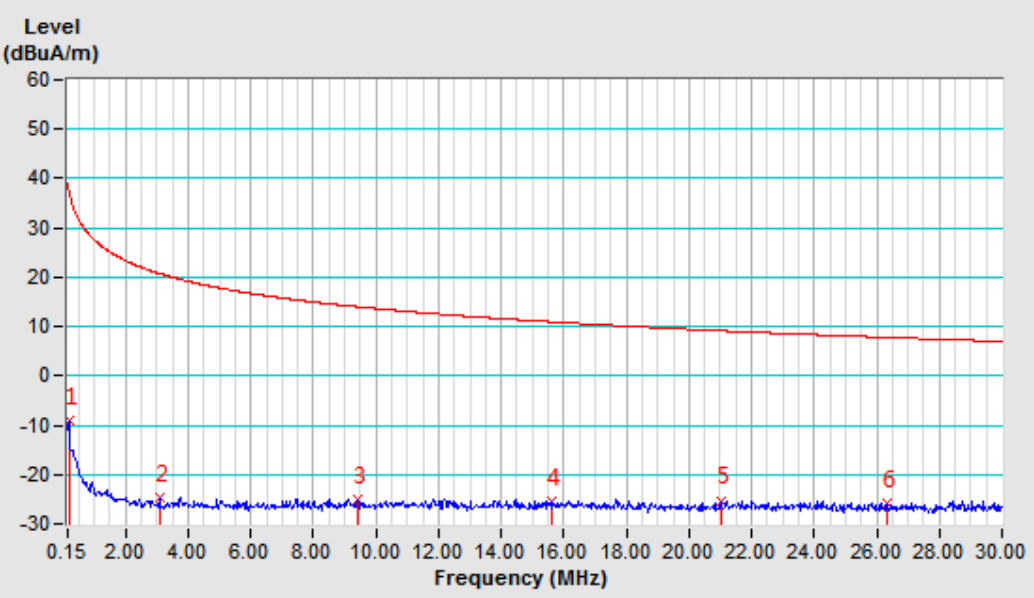


Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.1978 QP	-28.91	19.82	-9.09	37.33	-46.42	130	188
2	3.0710 QP	-28.87	4.23	-24.64	20.77	-45.41	130	263
3	9.4189 QP	-28.40	3.44	-24.96	14.00	-38.96	130	269
4	15.6190 QP	-28.04	2.74	-25.30	10.94	-36.24	130	360
5	21.0326 QP	-27.87	2.63	-25.24	9.14	-34.38	130	133
6	26.3193 QP	-27.71	1.91	-25.80	7.79	-33.59	130	84

Remarks:

1. Emission Level [dBμA/m] = Correction Factor [dBS/m] + Raw Value [dBμV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.



Test Mode	A	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V/60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Ludius
PSU	Aohai	Test Date	2024-12-23

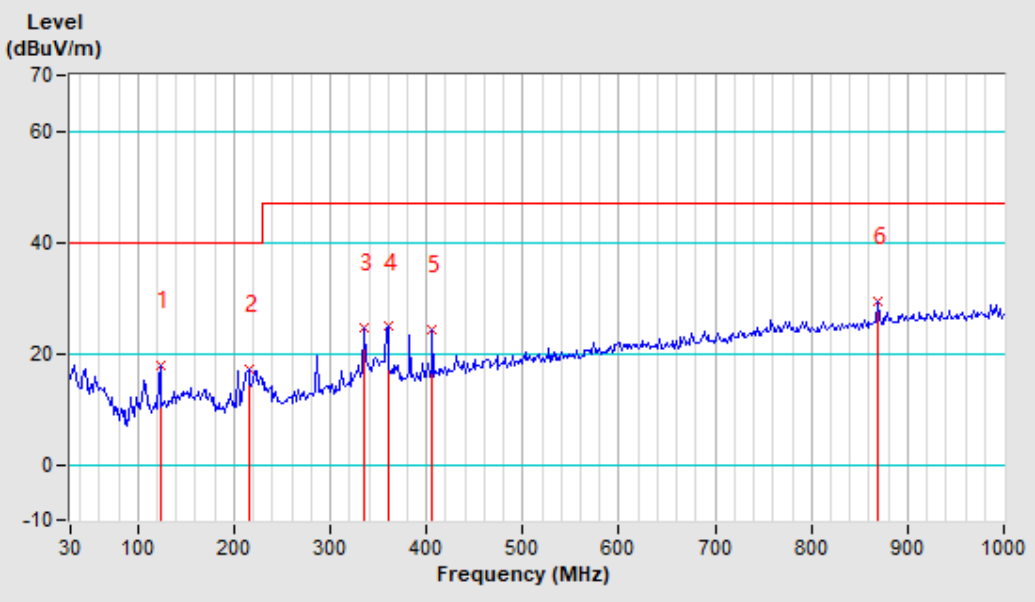
Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	123.27 QP	-19.39	37.23	17.84	40.00	-22.16	185	103
2	214.98 QP	-18.99	36.11	17.12	40.00	-22.88	202	221
3	334.68 QP	-14.57	39.17	24.60	47.00	-22.40	155	109
4	359.55 QP	-13.95	38.74	24.79	47.00	-22.21	169	204
5	406.19 QP	-12.62	36.83	24.21	47.00	-22.79	100	79
6	869.42 QP	-3.53	32.80	29.27	47.00	-17.73	226	335

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 30-1000MHz.

4. Only emissions significantly above equipment noise floor are reported.



Test Mode	A	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V/60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Ludius
PSU	Aohai	Test Date	2024-12-23

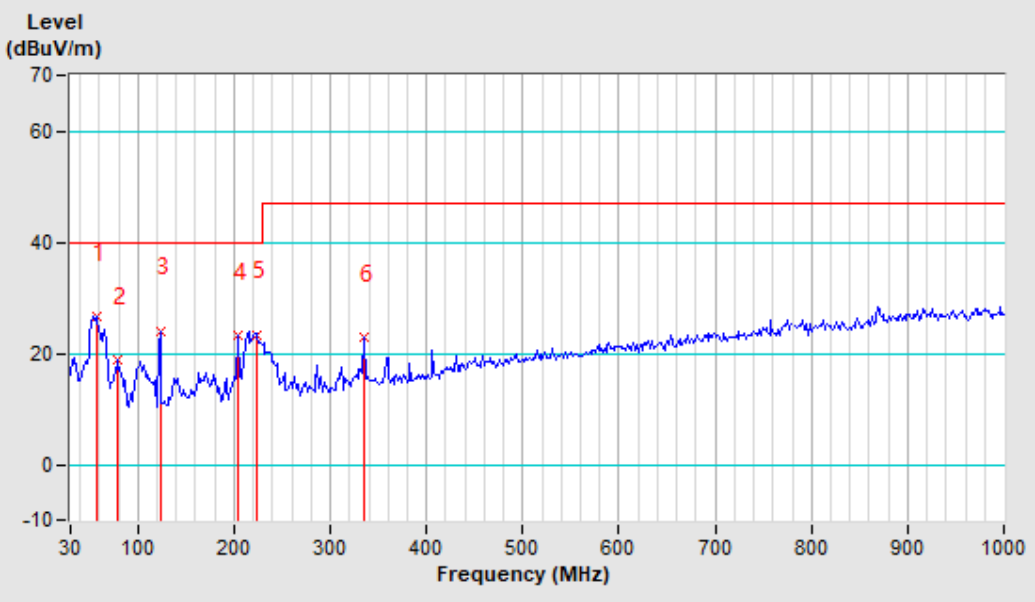
Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	56.43 QP	-17.64	44.16	26.52	40.00	-13.48	117	343
2	79.74 QP	-22.29	40.95	18.66	40.00	-21.34	179	281
3	123.27 QP	-19.39	43.24	23.85	40.00	-16.15	130	330
4	204.10 QP	-19.51	42.58	23.07	40.00	-16.93	196	265
5	224.31 QP	-18.55	41.79	23.24	40.00	-16.76	102	359
6	334.68 QP	-14.57	37.32	22.75	47.00	-24.25	145	316

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 30-1000MHz.

4. Only emissions significantly above equipment noise floor are reported.



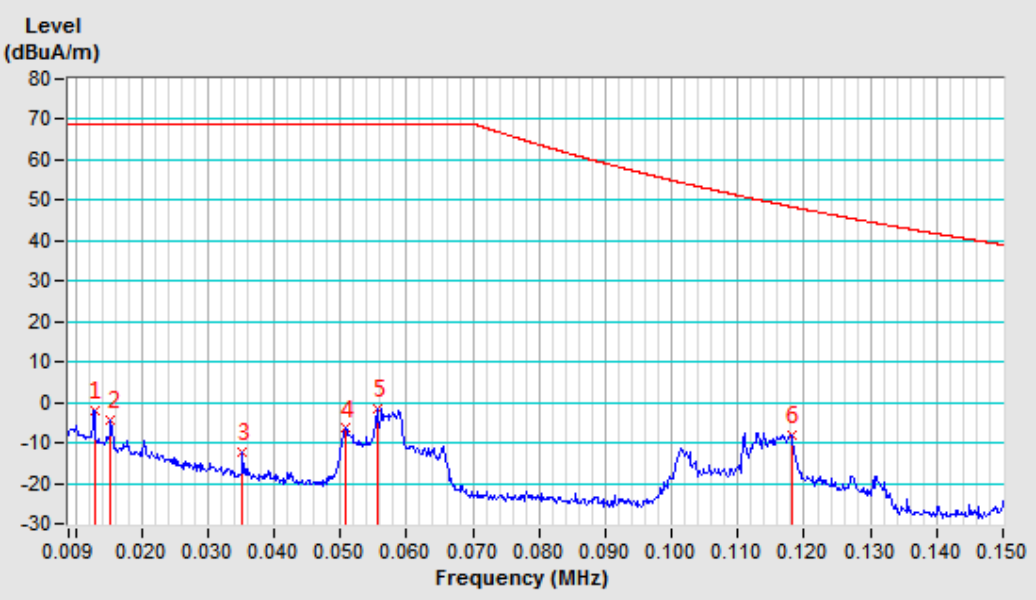
Charging Mode

Test Mode	B	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128 QP	-27.89	25.89	-2.00	69.00	-71.00	130	12
2	0.0154 QP	-28.05	23.84	-4.21	69.00	-73.21	130	228
3	0.0352 QP	-29.05	16.79	-12.26	69.00	-81.26	130	237
4	0.0508 QP	-29.13	22.75	-6.38	69.00	-75.38	130	178
5	0.0555 QP	-29.11	27.57	-1.54	69.00	-70.54	130	193
6	0.1180 QP	-28.93	21.06	-7.87	48.44	-56.31	130	172

Remarks:

1. Emission Level [dBμA/m] = Correction Factor [dBS/m] + Raw Value [dBμV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.

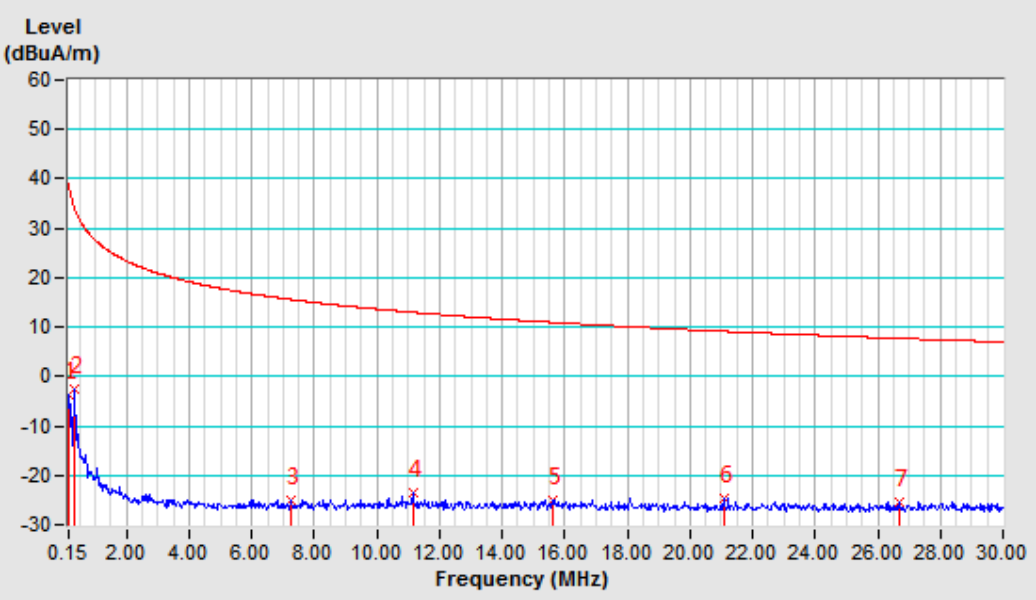


Test Mode	B	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.1754 QP	-28.87	25.31	-3.56	38.06	-41.62	130	182
2	**0.3590 QP**	**-28.90**	**26.40**	**-2.50**	**33.73**	**-36.23**	**130**	**50**
3	7.2561 QP	-28.52	3.57	-24.95	15.57	-40.52	130	217
4	11.1548 QP	-28.40	4.87	-23.53	12.98	-36.51	130	96
5	15.6056 QP	-28.04	2.99	-25.05	10.95	-36.00	130	115
6	21.0714 QP	-27.87	3.15	-24.72	9.13	-33.85	130	360
7	26.7193 QP	-27.68	2.37	-25.31	7.70	-33.01	130	127

Remarks:

1. Emission Level [dBμA/m] = Correction Factor [dBS/m] + Raw Value [dBμV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.

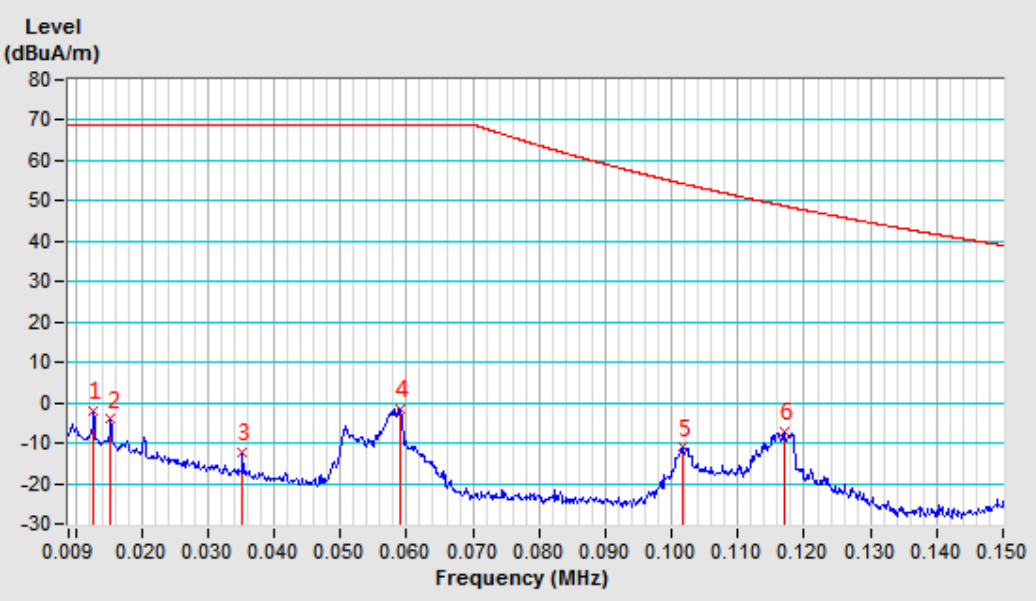


Test Mode	B	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128 QP	-27.88	26.01	-1.87	69.00	-70.87	130	112
2	0.0154 QP	-28.05	24.01	-4.04	69.00	-73.04	130	305
3	0.0352 QP	-29.05	16.85	-12.20	69.00	-81.20	130	294
4	0.0590 QP	-29.10	27.67	-1.43	69.00	-70.43	130	176
5	0.1016 QP	-28.99	17.92	-11.07	54.34	-65.41	130	185
6	0.1169 QP	-28.94	21.88	-7.06	48.80	-55.86	130	182

Remarks:

1. Emission Level [dBμA/m] = Correction Factor [dBS/m] + Raw Value [dBμV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.

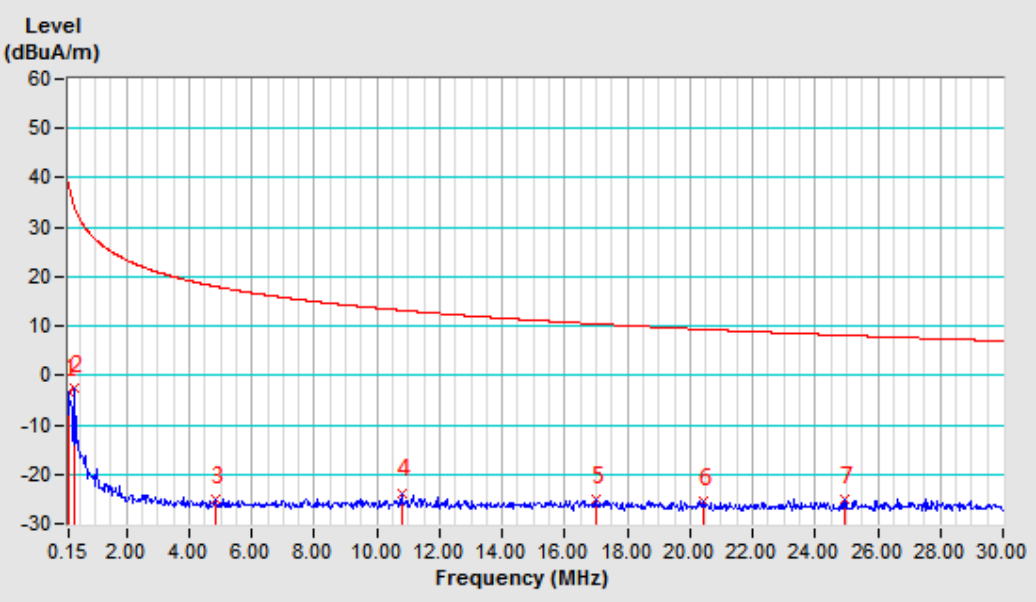


Test Mode	B	Frequency Range	150kHz ~ 30 MHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	22deg. C, 53% R	Tested By	Albert
PSU	Chenyang	Test Date	2024-12-20

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dBS/m)	Raw Value (dBuV)	Emission Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.1575 QP	-28.84	25.46	-3.38	38.71	-42.09	130	188
2	0.3590 QP	-28.90	26.36	-2.54	33.73	-36.27	130	50
3	4.8322 QP	-28.70	3.71	-24.99	18.03	-43.02	130	235
4	10.7995 QP	-28.39	4.68	-23.71	13.17	-36.88	130	67
5	16.9803 QP	-27.94	2.79	-25.15	10.44	-35.59	130	187
6	20.4266 QP	-27.90	2.48	-25.42	9.32	-34.74	130	288
7	24.9655 QP	-27.71	2.76	-24.95	8.11	-33.06	130	206

Remarks:

1. Emission Level [dBµA/m] = Correction Factor [dBS/m] + Raw Value [dBµV]
2. Correction Factor [dBS/m] = Antenna Factor[dBS/m] + Cable Factor(dB) – Amplifier Factor(dB)
3. That when using the Correction Factor [dBS/m] the 51.5 dB is already account for into the antenna factor.



Test Mode	B	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V/60Hz	Detector Function	QP
Environmental Conditions	25deg. C, 55% RH	Tested By	Ludius
PSU	Aohai	Test Date	2024-12-23

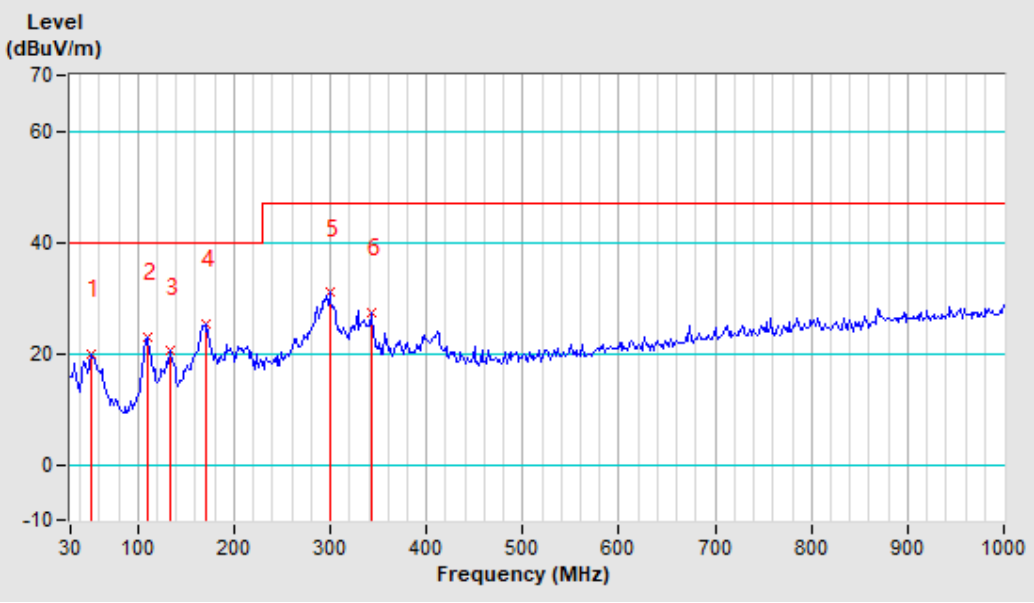
Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	51.76 QP	-17.66	37.49	19.83	40.00	-20.17	168	279
2	109.28 QP	-20.70	43.58	22.88	40.00	-17.12	152	295
3	134.15 QP	-18.01	38.40	20.39	40.00	-19.61	138	309
4	169.90 QP	-17.40	42.80	25.40	40.00	-14.60	121	325
5	298.93 QP	-15.42	46.32	30.90	47.00	-16.10	107	340
6	342.45 QP	-14.38	41.64	27.26	47.00	-19.74	185	262

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 30-1000MHz.

4. Only emissions significantly above equipment noise floor are reported.



Test Mode	B	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V/60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Ludius
PSU	Aohai	Test Date	2024-12-23

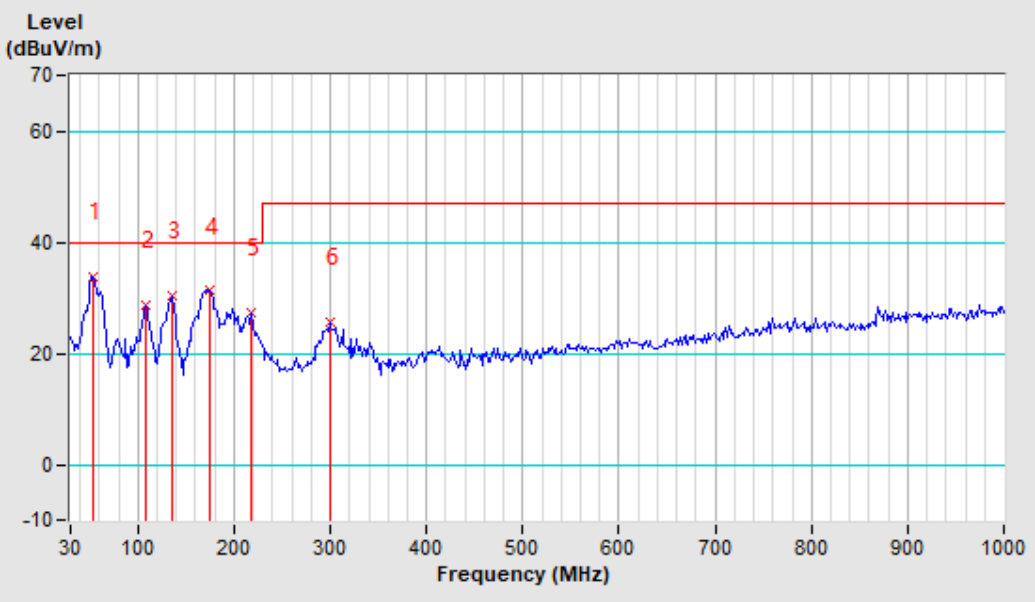
Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	**53.32 QP**	**-17.61**	**51.31**	**33.70**	**40.00**	**-6.30**	**158**	**285**
2	107.72 QP	-20.86	49.51	28.65	40.00	-11.35	180	263
3	135.71 QP	-17.83	48.23	30.40	40.00	-9.60	131	312
4	174.57 QP	-17.86	49.11	31.25	40.00	-8.75	196	248
5	218.09 QP	-18.84	46.27	27.43	40.00	-12.57	236	208
6	298.93 QP	-15.42	40.95	25.53	47.00	-21.47	216	228

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 30-1000MHz.

4. Only emissions significantly above equipment noise floor are reported.



4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Apr. 07, 25
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 25
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 07, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Oct. 09, 25
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 25
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 25
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTES: 1. The test was performed in RF Oven room.

2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

4.3.2 TEST PROCEDURE

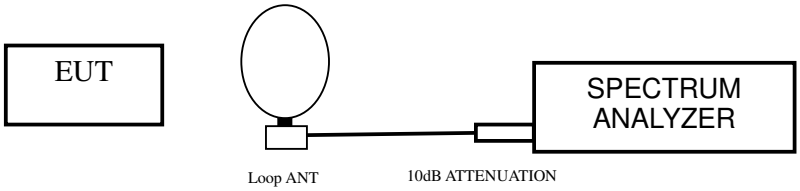
The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

Below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.3 DEVIATION FROM TEST STANDARD

No deviation.

4.3.4 TEST SETUP



4.3.5 EUT OPERATING CONDITIONS

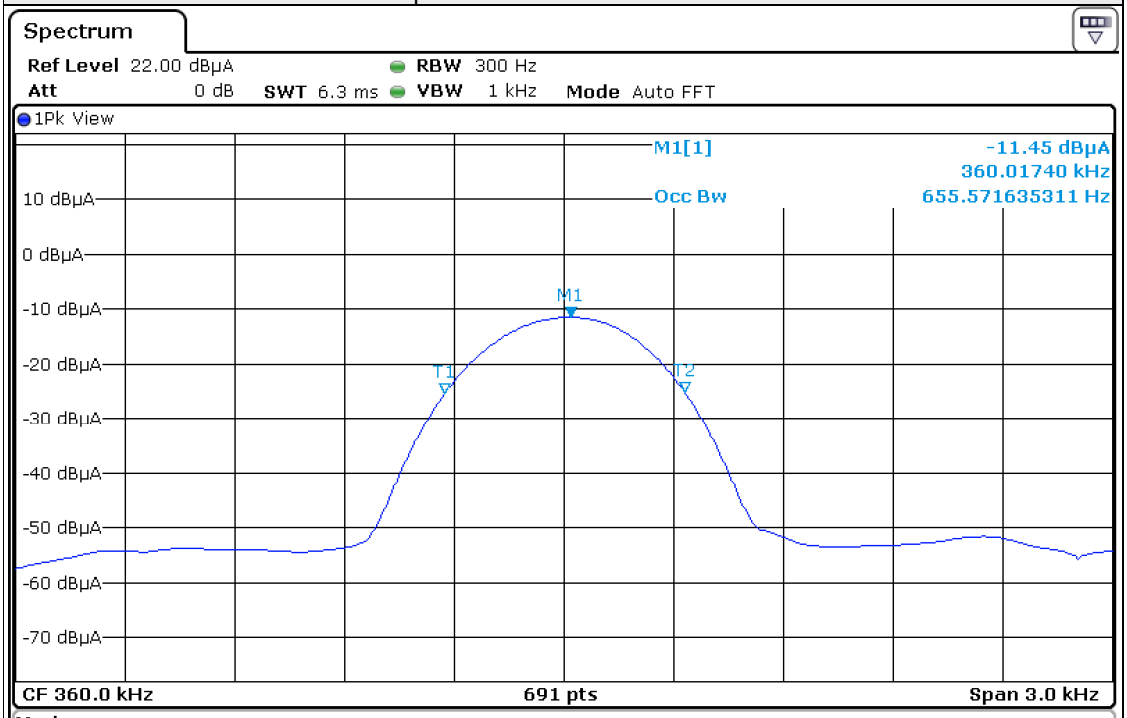
a. Turn on the EUT.
b. The EUT tested in charging mode and standby mode respectively.

4.3.6 TEST RESULTS

Test Mode	Frequency (kHz)	Occupied Bandwidth (Hz)
B	360KHz	655.572

Test Plot:

Spectrum Plot Of Worst Value



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	360.0174 kHz	-11.45 dBµA		
T1		1	359.67438 kHz	-25.23 dBµA	Occ Bw	655.571635311 Hz
T2		1	360.32996 kHz	-25.08 dBµA		

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---