

TEST REPORT

Applicant	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245-4852, USA

Manufacturer or Supplier	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245-4852, USA
Product	Magnetic Wireless Power Bank 5K + Stand
Brand Name	belkin
Model	BPD004
Additional Model & Model Difference	N/A
Date of tests	Apr. 29, 2022 ~ May 12, 2022

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

☒ **FCC Part 15, Subpart C**

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

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
	 Date: May 25, 2022

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Test Report No.: RF2204WDG0403

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2204WDG0403	Original release	May 25, 2022

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.203	Antenna Requirement	PASS	No antenna connector is used.
§15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
§15.209	Radiated Emission	PASS	Meet the requirement of limit.
§15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.

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	3.05dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.63dB

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	Magnetic Wireless Power Bank 5K + Stand
MODEL NO.	BPD004
ADDITIONAL MODEL	N/A
FCC ID	K7SBPD004
POWER SUPPLY	Input:5.0V=2.0A ,9.0V=2.0A USB-C Output:5.0V=2.0A Wireless Output:5.0V 5.0W/7.5W Total output (USB-C + wireless):10.0W Cell Capacity: 18.0Wh, 3.6V, 5000mAh
MODULATION TYPE	FSK
OPERATING FREQUENCY RANGE	111KHz ~ 148KHz
I/O PORTS	Coil Antenna
FIELD STRENGTH	67.91 dBuV/m
MAXIMUM POWER OUTPUT FROM THE CHARGING COIL	Max Power is 7.5W
CABLE SUPPLIED	USB-C to USB-C Cable: Shielded, Detachable, 1.0m

NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2204WDG0403-1) for detailed product photo.
- EUT and USB-C cable has two colors, white and black.
- Cable descriptions:

ID	Descriptions	Qty.	Length (m)	Shielding (Y/N)	Cores (Qty.)	Remarks
1	USB-C to USB-C PVC Cable	1	1.0	Y	0	NT-101(Black) Dongguan City Saiyu Electronics Technology Co., Ltd
2	USB-C to USB-C PVC Cable	1	1.0	Y	0	NT-100(White) Dongguan City Saiyu Electronics Technology Co., Ltd

3.2 DESCRIPTION OF TEST MODES

The following test frequencies are provided to this EUT:

Operating Frequency Range(KHz)	Tested Frequency(KHz)	Mode
111 ~ 148	127.666	iPhone 13 Pro operating (EUT(battery full))
111 ~ 148	127.666	Standby (USB-C INPUT)
111 ~ 148	127.666	iPhone 13 Pro operating (USB-C INPUT)

3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE	APPLICABLE TO			DESCRIPTION
	RE<1G	PLC	20BW	
A	√	-	√	iPhone 13 Pro operating (EUT(battery full))
B	√	√	√	Standby(USB-C INPUT)
C	√	√	√	iPhone 13 Pro operating (USB-C INPUT)

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

PLC: Power Line Conducted Emission

20BW: 20dB Bandwidth

Notes:

1. The EUT is designed to be positioned on the **X-plane** only.
2. The worst condition is when the phone is charged at 10%, so the test is performed when the phone is charged at 10%.

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)	Tested Frequency(KHz)	Modulation Type
A/B/C	111 ~ 148	127.666	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)	Tested Frequency(KHz)	Modulation Type
B/C	111 ~ 148	127.666	FSK

20dB 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)	Tested Frequency(KHz)	Modulation Type
A/B/C	111 ~ 148	127.666	FSK

TEST CONDITION:

Applicable to	Environmental conditions	Input Power	Tested by
RE<1G	25 °C, 57% RH /25 °C, 55% RH	Fully Battery or Powered by Adapter	Jay/Jelly
PLC	25 °C, 58% RH	Powered by Adapter	Summer
20BW	25 °C, 57% RH	Fully Battery or Powered by Adapter	Vincent

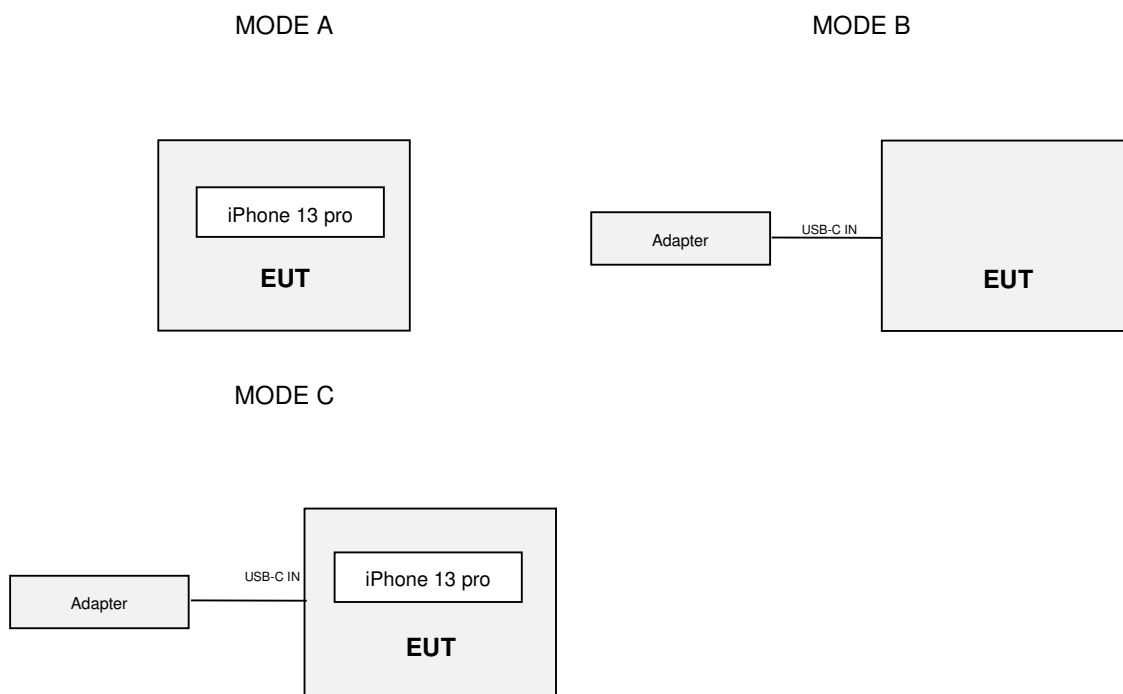
3.4 DESCRIPTION OF SUPPORT UNITS

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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone 13 Pro	Apple	A2639	N/A	N/A
2	Adapter	N/A	N/A	N/A	N/A

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST



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:

FCC Part 15, Subpart C (15.207/15.209)
ANSI C63.10-2013

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



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

- NOTES:**
- (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 0.50 MHz.
 - (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Jan. 18,23
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Jan. 23,23
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Jan. 18,23
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Aug. 05,22
Coaxial RF Cable	/	CE CABLE	C2310066DG	Jul. 27,22
Test software	ADT	ADT_Conc_V7.3.7	N/A	N/A

- NOTES:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in shielding room 553. (Chenwu)

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 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20dB) were not recorded.

NOTES:

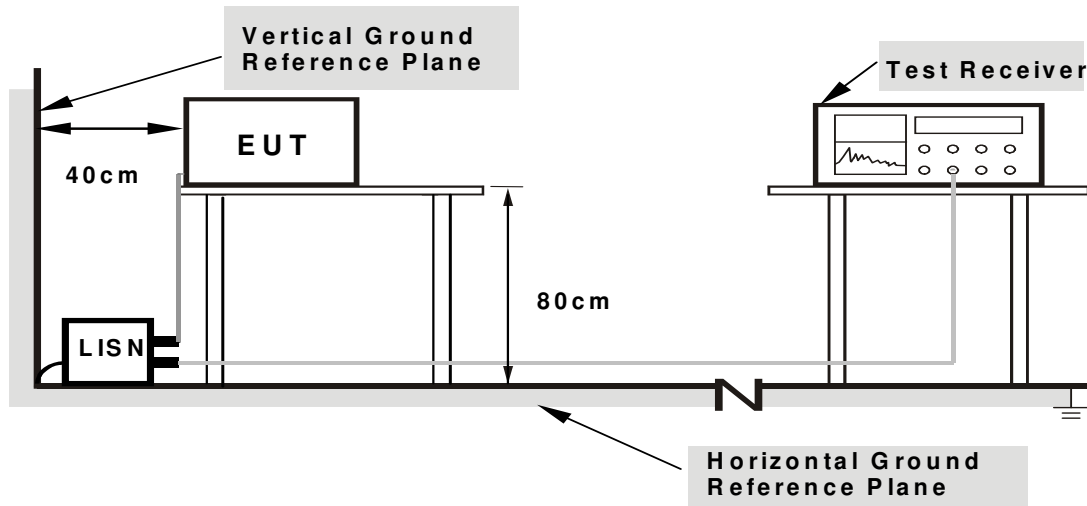
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

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 80cm from EUT and at least 80cm from other units and other metal planes support units.

4.1.6 EUT OPERATING CONDITIONS

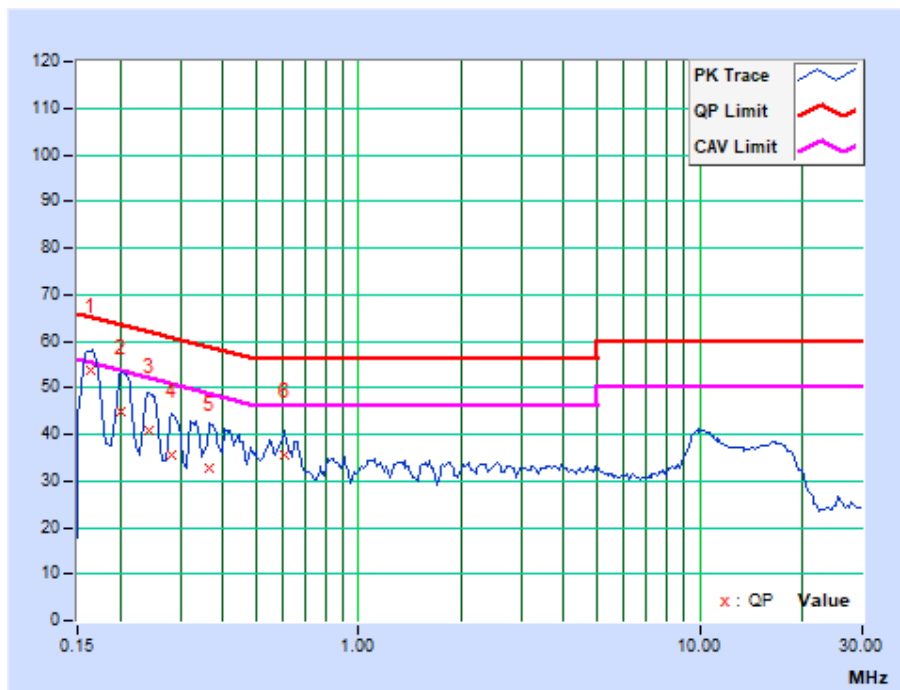
- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively.

4.1.7 TEST RESULTS

TEST MODE	B	PHASE	Line(L)
TEST VOLTAGE	Powered by Adapter Input AC 120V/60Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY: Summer	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16477	9.96	43.82	26.83	53.78	36.79	65.22	55.22	-11.44	-18.43
2	0.20078	10.04	34.72	19.33	44.76	29.37	63.58	53.58	-18.82	-24.21
3	0.24225	10.08	30.55	15.82	40.63	25.90	62.02	52.02	-21.39	-26.12
4	0.28281	10.10	25.42	14.21	35.52	24.31	60.73	50.73	-25.21	-26.42
5	0.36375	10.13	22.58	15.35	32.71	25.48	58.64	48.64	-25.93	-23.16
6	0.60450	10.19	25.29	18.90	35.48	29.09	56.00	46.00	-20.52	-16.91

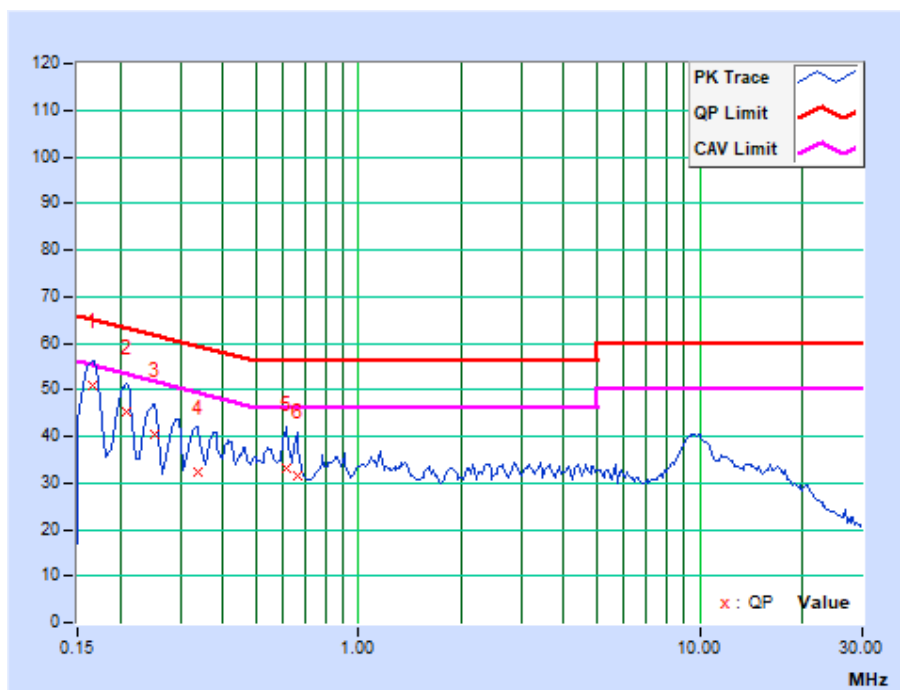
REMARKS: The emission levels of other frequencies were very low against the limit.



TEST MODE	B	PHASE	Neutral (N)
TEST VOLTAGE	Powered by Adapter Input AC 120V/60Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY:	Summer

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16696	9.86	41.10	23.11	50.96	32.97	65.11	55.11	-14.15	-22.14
2	0.20887	9.92	35.26	18.39	45.18	28.31	63.25	53.25	-18.07	-24.94
3	0.25118	9.97	30.33	14.23	40.30	24.20	61.72	51.72	-21.42	-27.52
4	0.33900	10.01	22.32	11.08	32.33	21.09	59.23	49.23	-26.89	-28.13
5	0.61800	10.05	22.95	16.19	33.00	26.24	56.00	46.00	-23.00	-19.76
6	0.66075	10.05	21.50	15.34	31.55	25.39	56.00	46.00	-24.45	-20.61

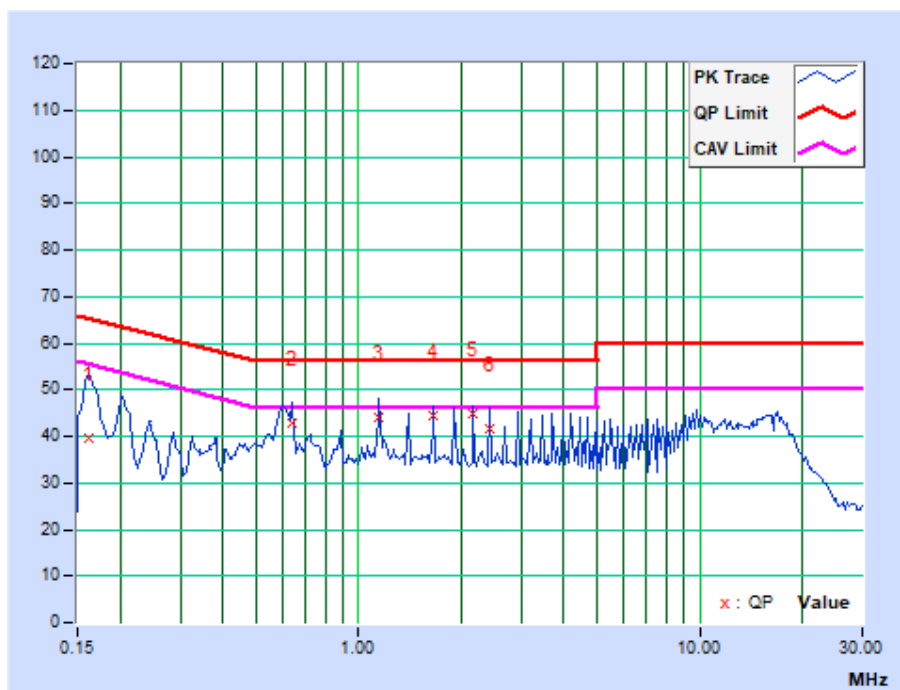
REMARKS: The emission levels of other frequencies were very low against the limit.



TEST MODE	C	PHASE	Line(L)
TEST VOLTAGE	Powered by Adapter Input AC 120V/60Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY: Summer	

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16125	9.95	29.76	15.70	39.71	25.65	65.40	55.40	-25.68	-29.74
2	0.63600	10.20	32.75	28.47	42.95	38.67	56.00	46.00	-13.05	-7.33
3	1.14675	10.29	33.78	29.25	44.07	39.54	56.00	46.00	-11.93	-6.46
4	1.65750	10.35	34.02	29.45	44.37	39.80	56.00	46.00	-11.63	-6.20
5	2.16825	10.40	34.33	29.73	44.73	40.13	56.00	46.00	-11.27	-5.87
6	2.42250	10.43	31.03	24.49	41.46	34.92	56.00	46.00	-14.54	-11.08

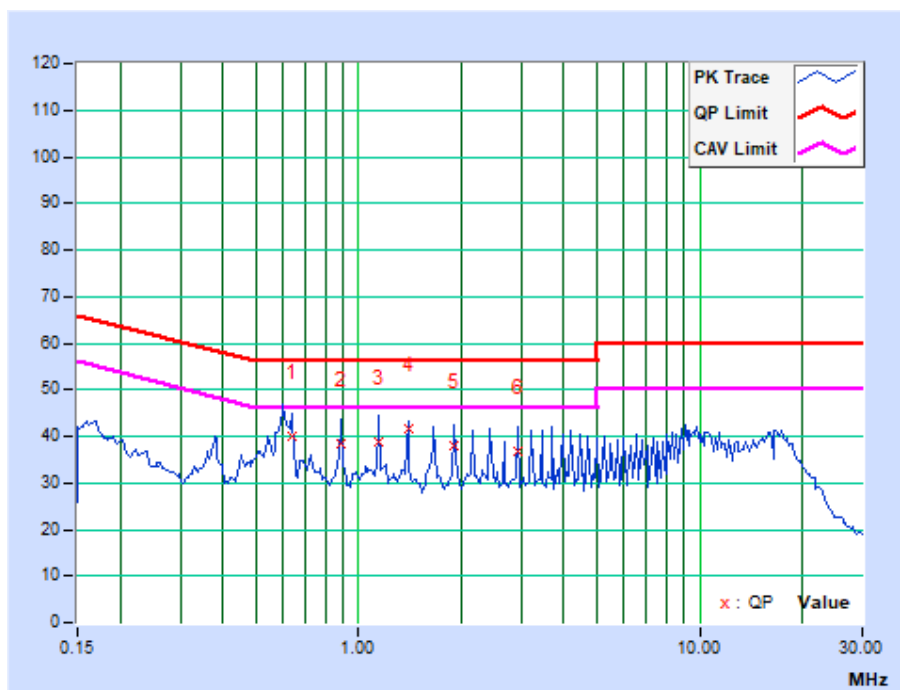
REMARKS: The emission levels of other frequencies were very low against the limit.



TEST MODE	C	PHASE	Neutral (N)
TEST VOLTAGE	Powered by Adapter Input AC 120V/60Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 58% RH	TESTED BY:	Summer

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.63600	10.05	30.05	24.45	40.10	34.50	56.00	46.00	-15.90	-11.50
2	0.89250	10.11	28.27	22.28	38.38	32.39	56.00	46.00	-17.62	-13.61
3	1.14675	10.15	28.77	22.20	38.92	32.35	56.00	46.00	-17.08	-13.65
4	1.40325	10.16	31.28	26.10	41.44	36.26	56.00	46.00	-14.56	-9.74
5	1.91175	10.19	27.85	21.66	38.04	31.85	56.00	46.00	-17.96	-14.15
6	2.93325	10.32	26.43	19.48	36.75	29.80	56.00	46.00	-19.25	-16.20

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

TEST STANDARD: FCC Part 15, Subpart C, Section 15.209

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

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

NOTES:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), 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. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

**4.2.2 TEST INSTRUMENTS****FREQUENCY 9KHz-30MHz**

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Jan. 18,23
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	May 21,22
Amplifier	Burgeon	BPA-530	100210	Mar. 09,23
Coaxial RF Cable	/	/	/	Aug. 03,22
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A

- NOTES:** 1. The test was performed in 10m Chamber. (Chenwu)
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.

FREQUENCY 30MHz-1GHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Feb. 22, 23
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	01263	Sep. 30, 22
Pre-Amplifier	Burgeon	BPA-530	100220	Mar. 08, 23
3m Semi-anechoic Chamber	Burgeon	9m*6m*6m	NSEMC003	Oct. 15, 22
Coaxial RF Cable(3m Below 1G)	/	/	/	Aug. 30, 22
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

- NOTES:** 1. The test was performed in 966 Chamber. (Chenwu)
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.

4.2.3 TEST PROCEDURE

< 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, all three directions parallel, perpendicular and ground-parallel of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

<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.

NOTES:

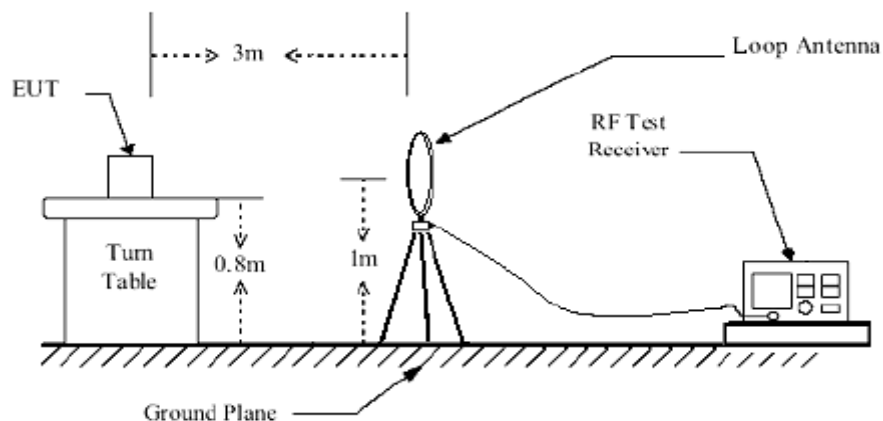
1. The resolution bandwidth of test receiver/spectrum analyzer is 200Hz for Quasi-peak detection (QP) or average detection (AV) at fundamental frequency 9K-150KHz;
2. The resolution bandwidth of test receiver/spectrum analyzer is 9KHz for Quasi-peak detection (QP) at fundamental frequency 150K-30MHz;
3. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at radiated spurious emission frequency 30MHz-1GHz.
4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
6. Margin value = Emission level – Limit value.

4.2.4 DEVIATION FROM TEST STANDARD

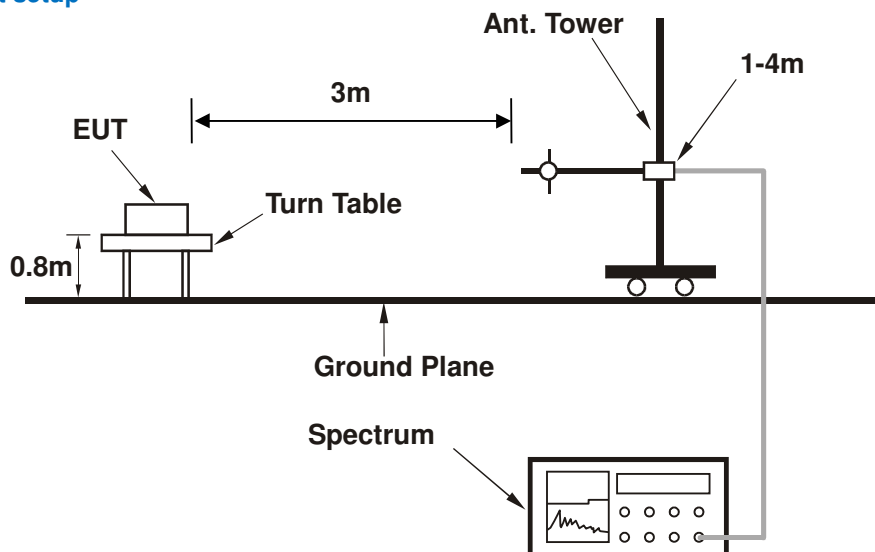
No deviation.

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

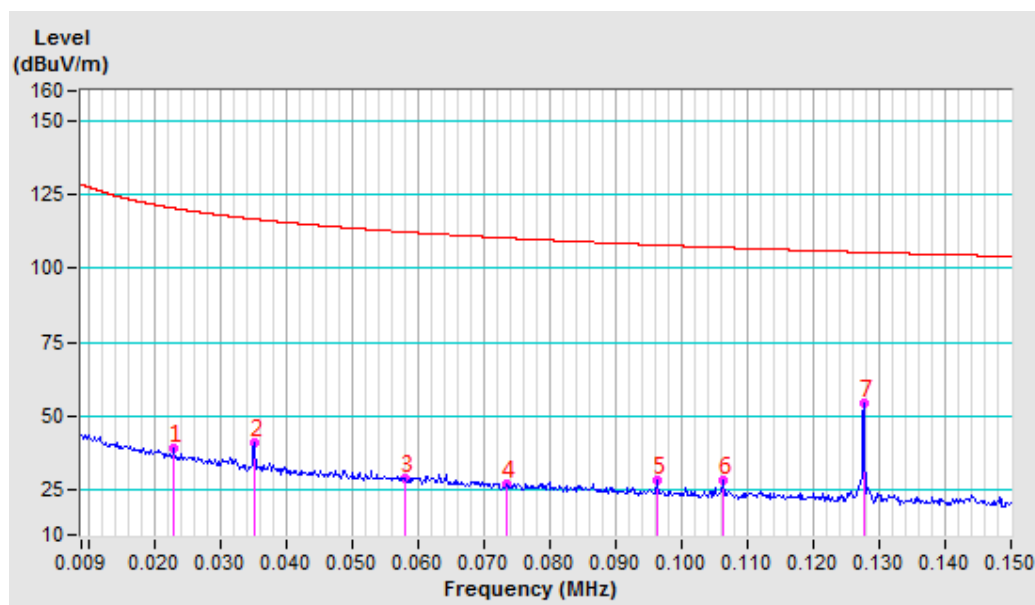
- Turn on the EUT.
- The EUT tested in charging mode and standby mode respectively.

4.2.7 TEST RESULTS

Battery Mode

Test Mode	A	Frequency Range	9 kHz ~ 150 kHz
Test Voltage	Fully Battery	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

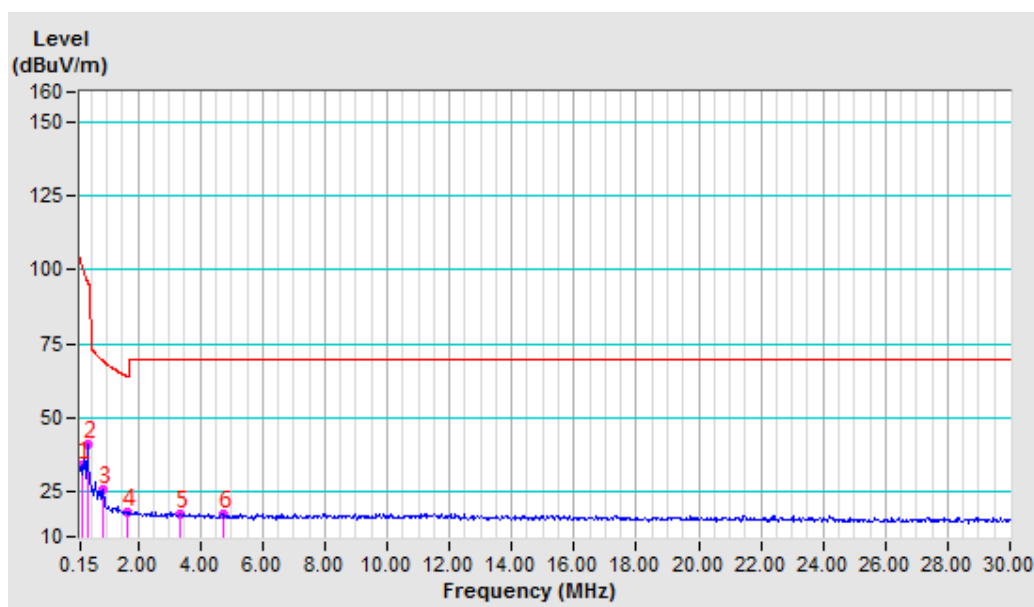
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.02300 AV	-11.03	50.04	39.01	120.37	-81.36	100	52
2	0.03520 AV	-11.37	52.44	41.07	116.67	-75.60	100	48
3	0.05810 AV	-11.42	40.71	29.29	112.32	-83.03	100	61
4	0.07360 AV	-11.40	38.73	27.33	110.27	-82.94	100	82
5	0.09620 QP	-11.35	39.61	28.26	107.94	-79.68	100	93
6	0.10640 QP	-11.36	39.85	28.49	107.06	-78.57	100	127
7	0.12770 AV	-11.38	65.84	54.46	105.48	-51.02	100	165



Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Fully Battery	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

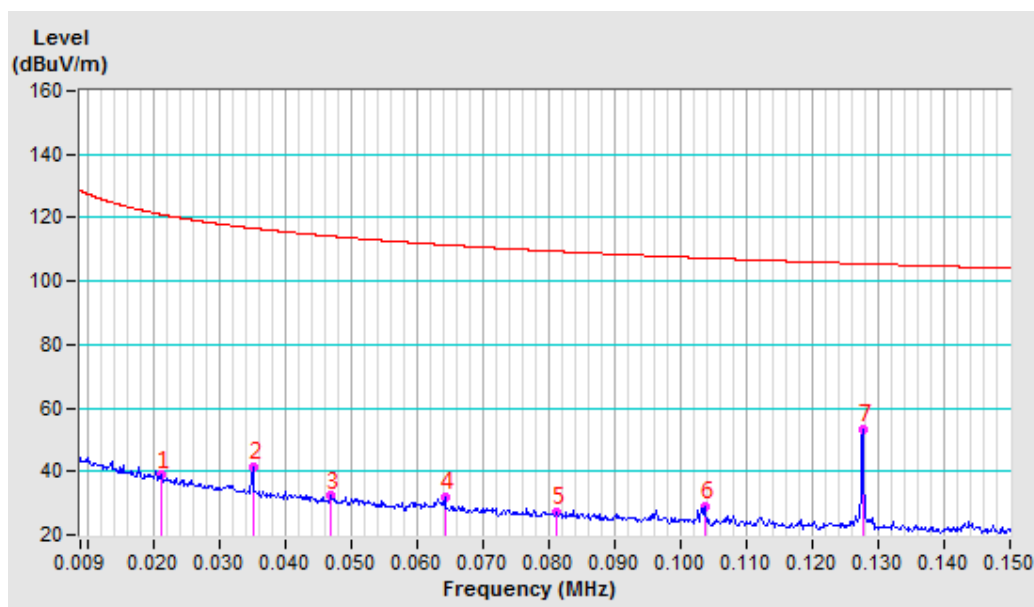
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

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	0.18880 AV	-11.40	45.48	34.08	102.08	-68.00	100	145
2	0.38280 AV	-11.46	52.50	41.04	95.94	-54.90	100	28
3	0.89330 QP	-11.47	37.56	26.09	69.07	-42.98	100	64
4	1.63810 QP	-11.49	30.06	18.57	64.29	-45.72	100	247
5	3.36950 QP	-11.43	29.15	17.72	69.54	-51.82	100	162
6	4.71730 QP	-11.43	28.86	17.43	69.54	-52.11	100	84



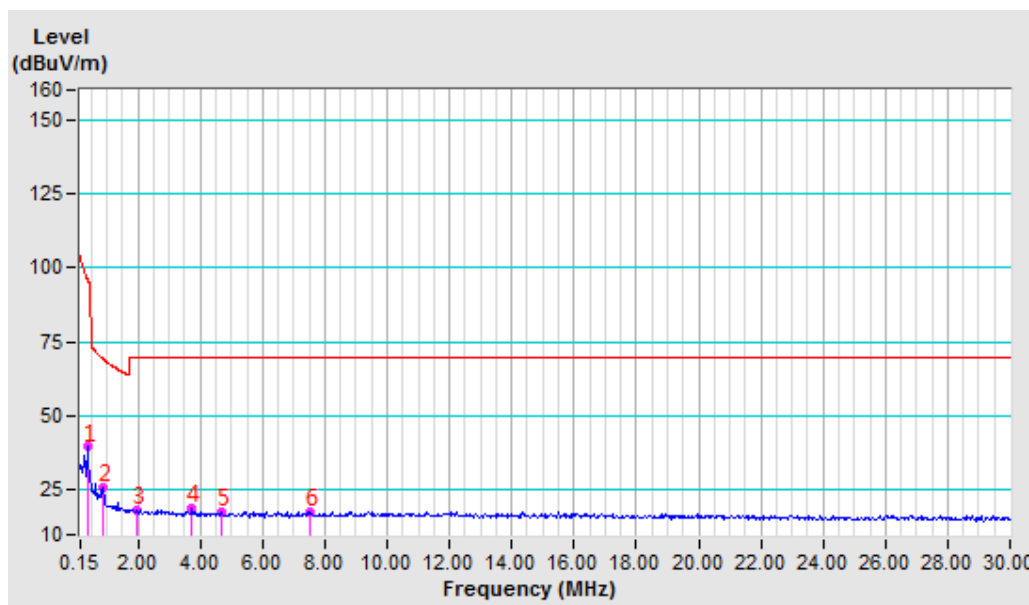
Test Mode	A	Frequency Range	9 kHz ~ 150 kHz
Test Voltage	Fully Battery	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR 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	0.02130 AV	-10.96	49.74	38.78	121.04	-82.26	100	251
2	0.03520 AV	-11.37	52.81	41.44	116.67	-75.23	100	204
3	0.04700 AV	-11.39	43.66	32.27	114.16	-81.89	100	116
4	0.06430 AV	-11.42	43.55	32.13	111.44	-79.31	100	96
5	0.08130 AV	-11.38	38.76	27.38	109.40	-82.02	100	75
6	0.10370 QP	-11.35	40.46	29.11	107.29	-78.18	100	61
7	0.12770 AV	-11.38	64.70	53.32	105.48	-52.16	100	78



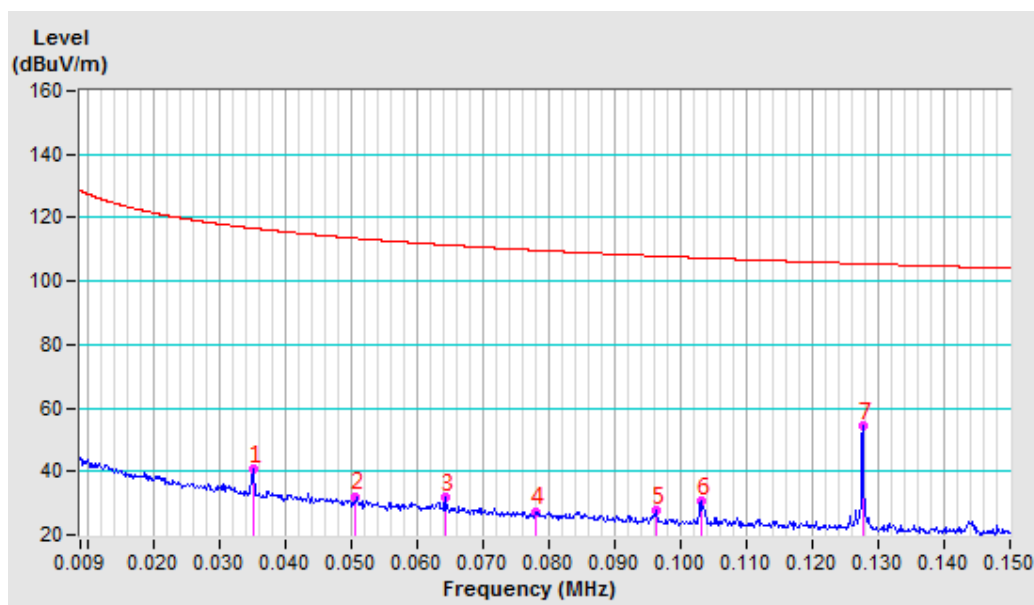
Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Fully Battery	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR 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	0.38280 AV	-11.46	51.06	39.60	95.94	-56.34	100	74
2	0.89330 QP	-11.47	37.67	26.20	69.07	-42.87	100	62
3	1.93360 QP	-11.48	29.67	18.19	69.54	-51.35	100	112
4	3.70830 QP	-11.42	30.38	18.96	69.54	-50.58	100	96
5	4.65910 QP	-11.43	29.09	17.66	69.54	-51.88	100	216
6	7.55170 QP	-11.31	28.94	17.63	69.54	-51.91	100	242



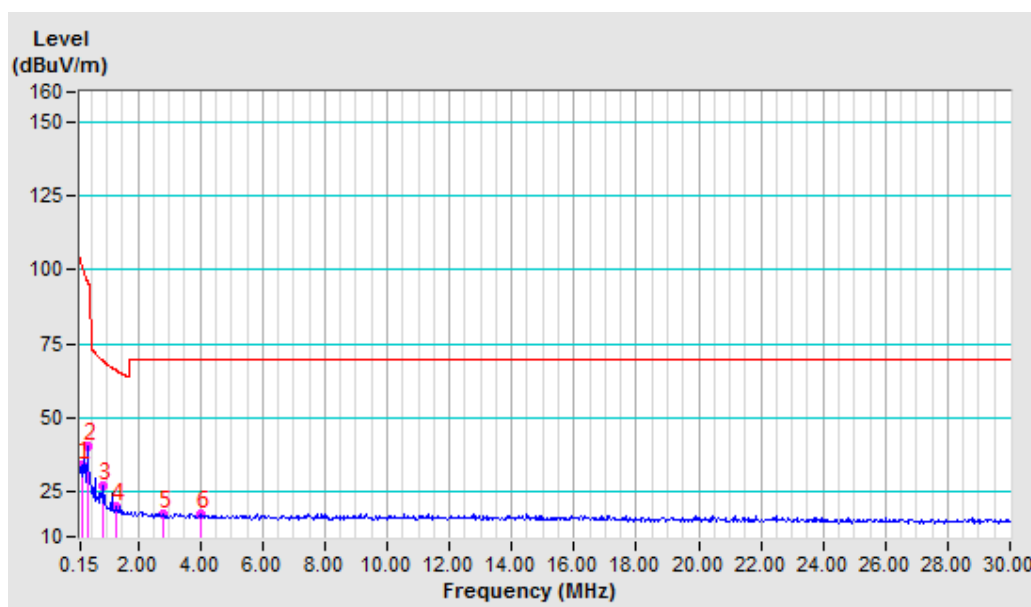
Test Mode	A	Frequency Range	9 kHz ~ 150 kHz
Test Voltage	Fully Battery	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL 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	0.03520 AV	-11.37	52.03	40.66	116.67	-76.01	100	68
2	0.05080 AV	-11.40	43.43	32.03	113.49	-81.46	100	175
3	0.06430 AV	-11.42	43.24	31.82	111.44	-79.62	100	54
4	0.07810 AV	-11.39	38.68	27.29	109.75	-82.46	100	345
5	0.09620 QP	-11.35	39.07	27.72	107.94	-80.22	100	68
6	0.10310 QP	-11.35	42.00	30.65	107.34	-76.69	100	24
7	0.12770 AV	-11.38	65.50	54.12	105.48	-51.36	100	157



Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Fully Battery	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

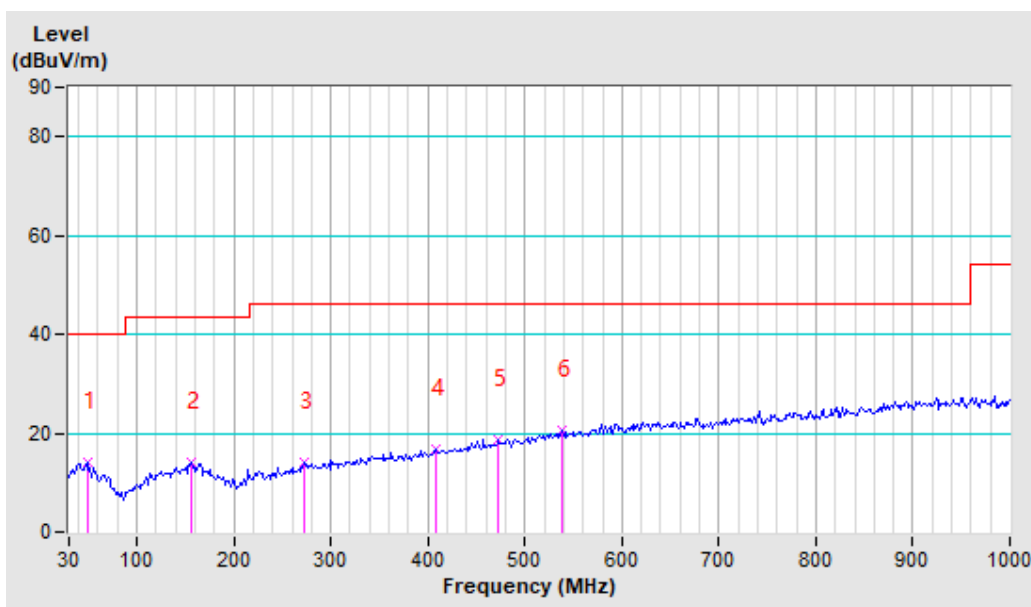
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.18880 AV	-11.40	45.71	34.31	102.08	-67.77	100	78
2	0.38280 AV	-11.46	51.97	40.51	95.94	-55.43	100	68
3	0.89330 QP	-11.47	38.62	27.15	69.07	-41.92	100	94
4	1.26790 QP	-11.50	31.63	20.13	66.31	-46.18	100	135
5	2.78440 QP	-11.45	29.11	17.66	69.54	-51.88	100	64
6	3.99190 QP	-11.41	29.17	17.76	69.54	-51.78	100	81



Test Mode	A	Frequency Range	30MHz ~ 1000MHz
Test Voltage	Fully Battery	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Jelly

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	48.65	-17.19	31.12	13.93	40.00	-26.07	100	35
2	155.91	-16.46	30.57	14.11	43.50	-29.39	100	75
3	272.50	-16.23	30.16	13.93	46.00	-32.07	100	234
4	407.74	-12.64	29.41	16.77	46.00	-29.23	100	354
5	473.03	-11.00	29.74	18.74	46.00	-27.26	100	241
6	538.32	-9.29	30.03	20.74	46.00	-25.26	100	291

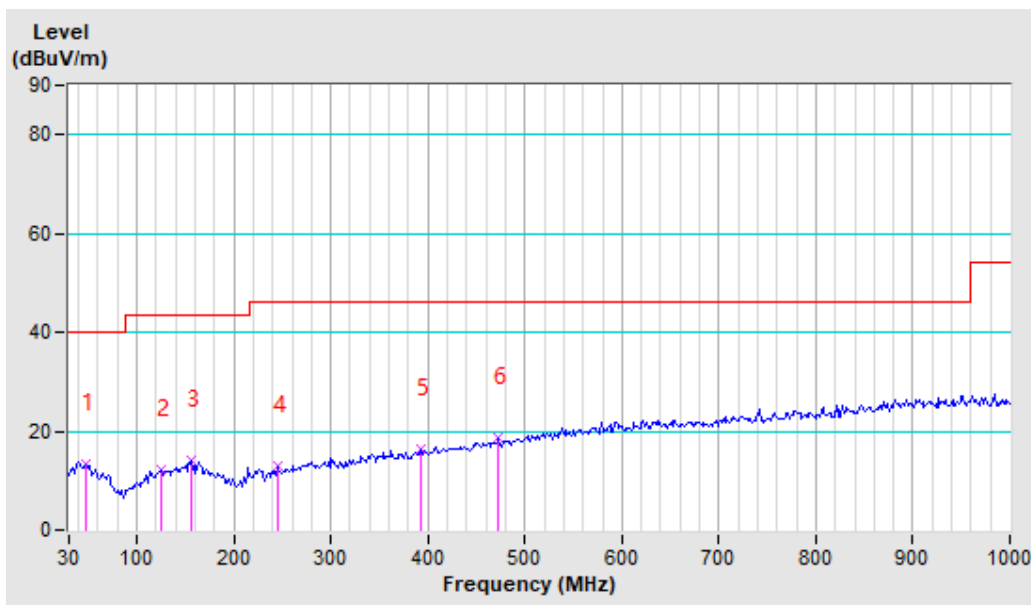
REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	A	Frequency Range	30MHz ~ 1000MHz
Test Voltage	Fully Battery	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Jelly

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	47.10	-17.11	30.50	13.39	40.00	-26.61	100	245
2	124.82	-18.13	30.46	12.33	43.50	-31.17	100	114
3	155.91	-16.46	30.57	14.11	43.50	-29.39	100	235
4	244.52	-17.35	30.16	12.81	46.00	-33.19	100	254
5	392.20	-13.04	29.34	16.30	46.00	-29.70	100	225
6	473.03	-11.00	29.74	18.74	46.00	-27.26	100	37

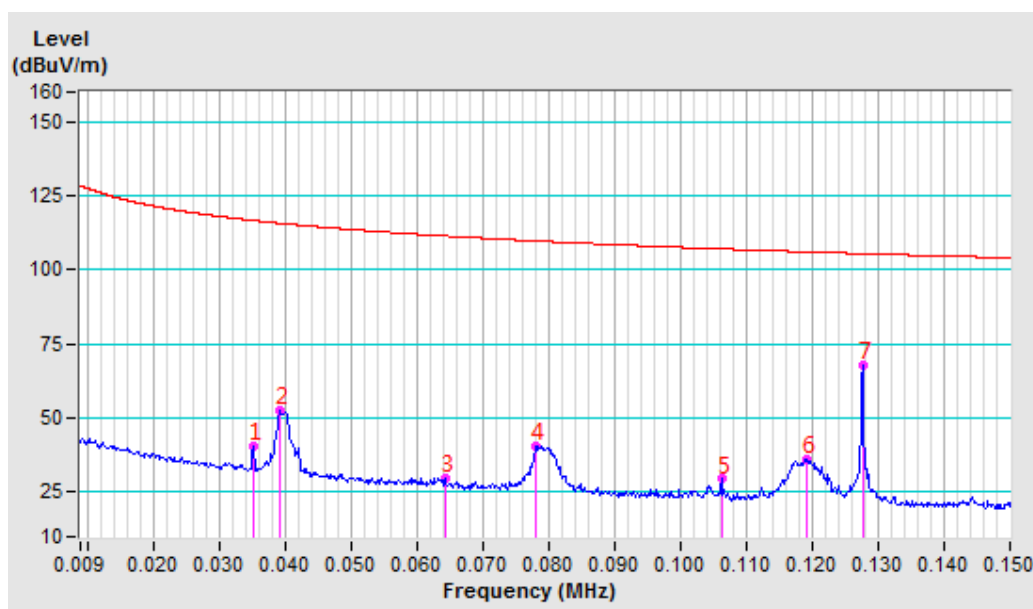
REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



USB-C INPUT Mode

Test Mode	B	Frequency Range	9 kHz ~ 150 kHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL 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	0.03520 AV	-11.37	51.69	40.32	116.67	-76.35	100	251
2	0.03920 AV	-11.38	63.80	52.42	115.74	-63.32	100	45
3	0.06430 AV	-11.42	41.21	29.79	111.44	-81.65	100	47
4	0.07820 AV	-11.39	51.77	40.38	109.74	-69.36	100	63
5	0.10620 QP	-11.35	40.76	29.41	107.08	-77.67	100	89
6	0.11930 AV	-11.38	47.60	36.22	106.07	-69.85	100	164
7	0.12770 AV	-11.38	79.09	67.71	105.48	-37.77	100	168





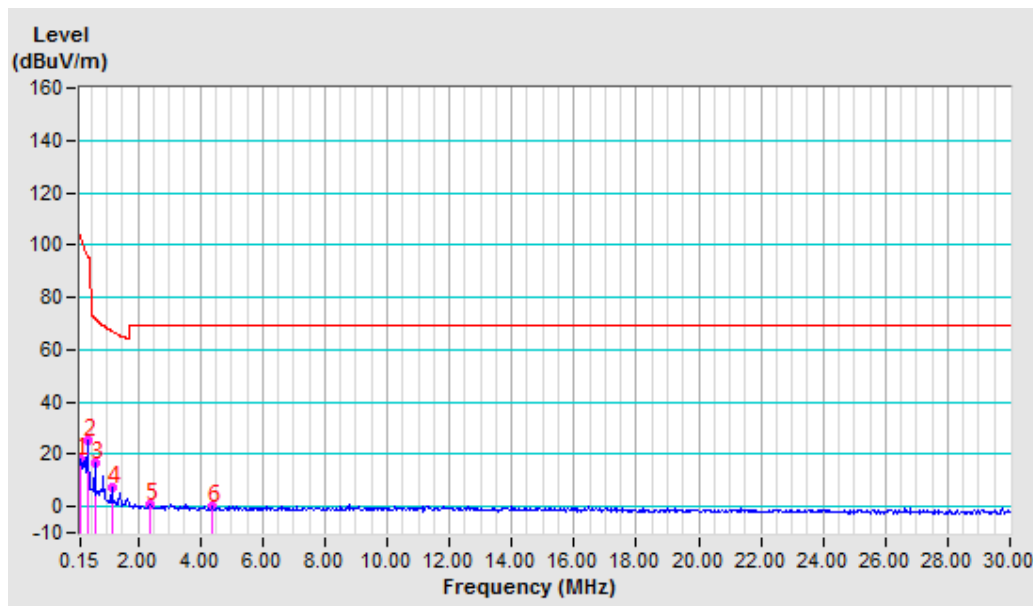
BUREAU
VERITAS

Test Report No.: RF2204WDG0403

Test Mode	B	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

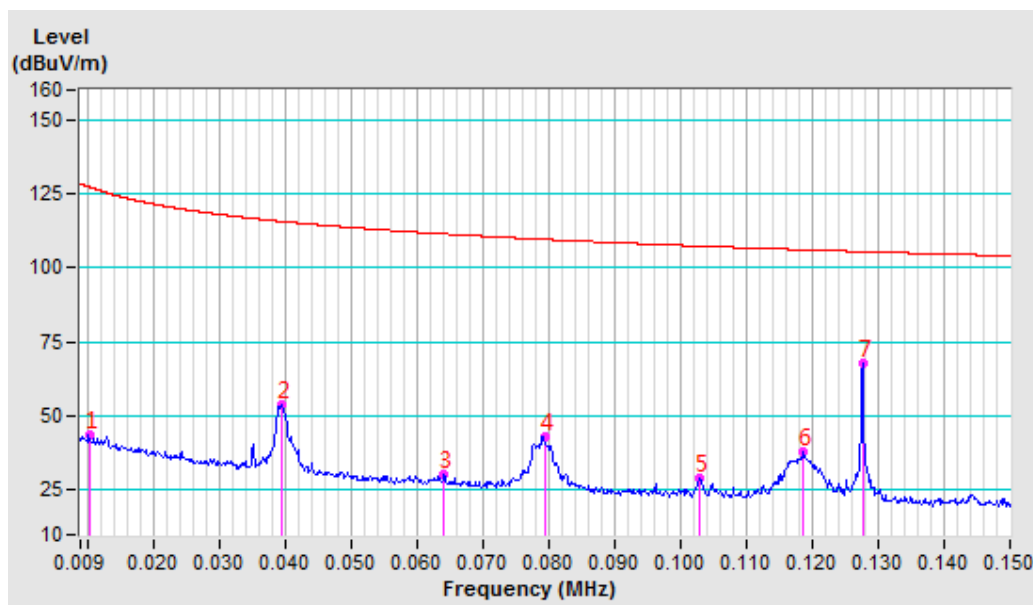
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

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	0.15450 AV	-11.42	29.82	18.40	103.82	-85.42	100	92
2	0.38280 AV	-11.46	36.56	25.10	95.94	-70.84	100	42
3	0.63810 QP	-11.47	28.04	16.57	71.72	-55.15	100	154
4	1.14850 QP	-11.51	18.52	7.01	67.08	-60.07	100	41
5	2.39040 QP	-11.47	12.18	0.71	69.54	-68.83	100	38
6	4.39190 QP	-11.42	11.61	0.19	69.54	-69.35	100	14



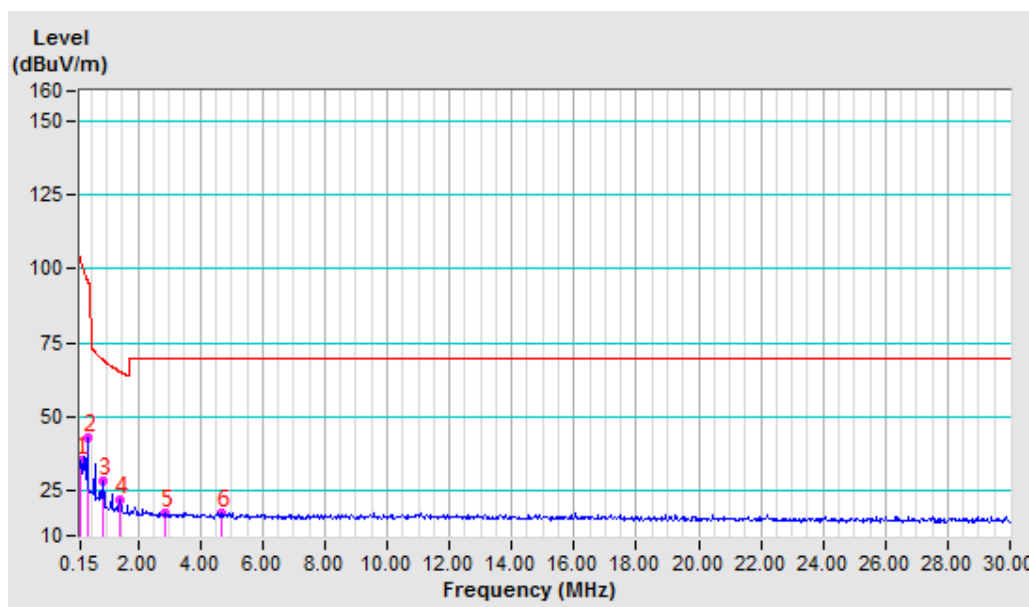
Test Mode	B	Frequency Range	9 kHz ~ 150 kHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR 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	0.01030 AV	-10.44	53.97	43.53	127.35	-83.82	100	35
2	0.03960 AV	-11.38	65.27	53.89	115.65	-61.76	100	114
3	0.06420 AV	-11.42	41.60	30.18	111.45	-81.27	100	223
4	0.07940 AV	-11.38	54.63	43.25	109.61	-66.36	100	52
5	0.10290 QP	-11.35	40.43	29.08	107.35	-78.27	100	81
6	0.11860 AV	-11.37	49.14	37.77	106.12	-68.35	100	115
7	0.12770 AV	-11.38	79.29	67.91	105.48	-37.57	100	304



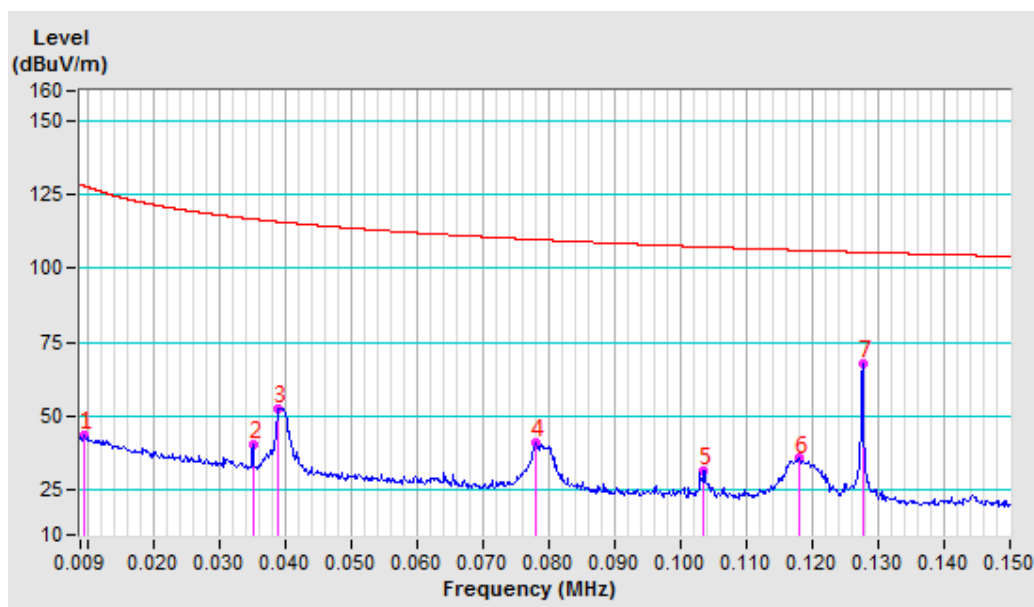
Test Mode	B	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR 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	0.15750 AV	-11.41	46.96	35.55	103.66	-68.11	100	185
2	0.38280 AV	-11.46	54.44	42.98	95.94	-52.96	100	65
3	0.89330 QP	-11.47	40.10	28.63	69.07	-40.44	100	27
4	1.40230 QP	-11.50	33.59	22.09	65.51	-43.42	100	38
5	2.84710 QP	-11.45	29.09	17.64	69.54	-51.90	100	117
6	4.69640 QP	-11.43	29.10	17.67	69.54	-51.87	100	96



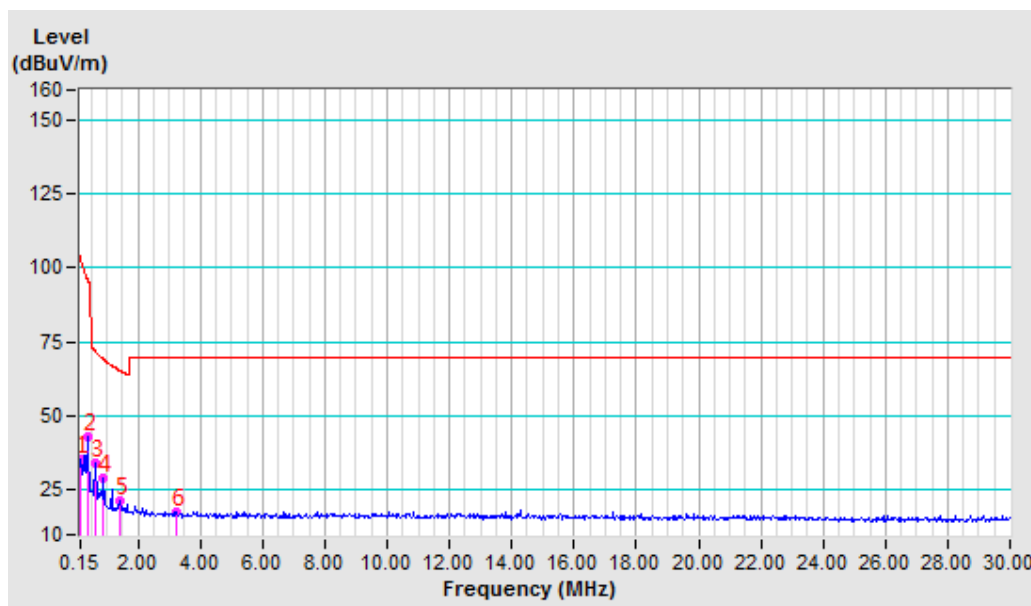
Test Mode	B	Frequency Range	9 kHz ~ 150 kHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL 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	0.00960 AV	-10.31	53.92	43.61	127.96	-84.35	100	78
2	0.03520 AV	-11.37	52.02	40.65	116.67	-76.02	100	62
3	0.03910 AV	-11.38	64.01	52.63	115.76	-63.13	100	114
4	0.07800 AV	-11.39	52.60	41.21	109.76	-68.55	100	83
5	0.10360 QP	-11.35	43.10	31.75	107.30	-75.55	100	138
6	0.11800 AV	-11.37	47.19	35.82	106.16	-70.34	100	224
7	0.12770 AV	-11.38	79.24	67.86	105.48	-37.62	100	142



Test Mode	B	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

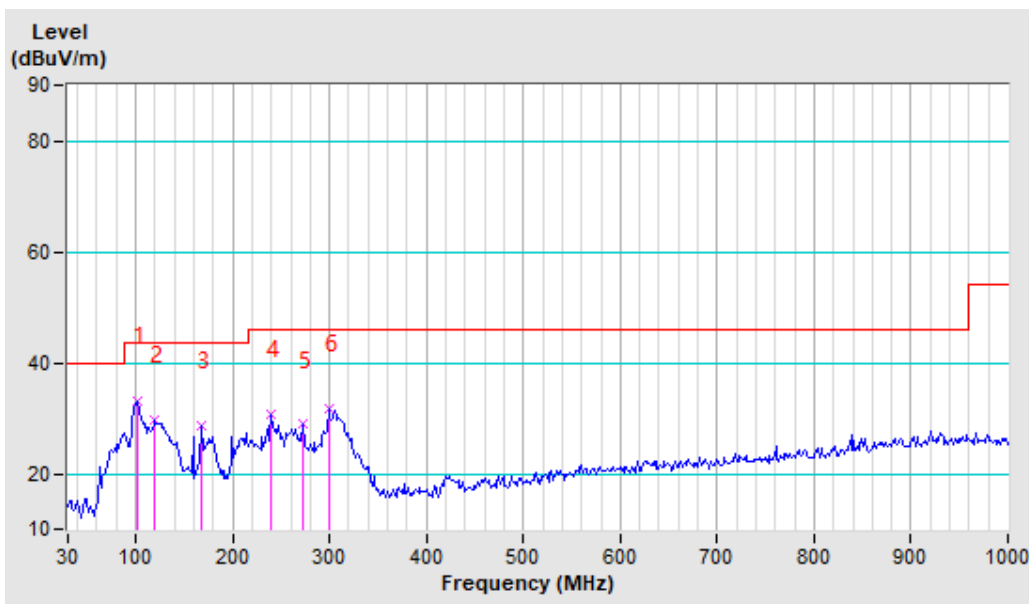
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.15450 AV	-11.42	47.10	35.68	103.82	-68.14	100	163
2	0.38280 AV	-11.46	54.48	43.02	95.94	-52.92	100	75
3	0.63810 QP	-11.47	45.53	34.06	71.72	-37.66	100	42
4	0.89330 QP	-11.47	40.57	29.10	69.07	-39.97	100	38
5	1.40380 QP	-11.50	32.88	21.38	65.50	-44.12	100	158
6	3.25310 QP	-11.44	29.24	17.80	69.54	-51.74	100	69



Test Mode	B	Frequency Range	30MHz ~ 1000MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Jelly

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	101.51	-20.6	53.72	33.12	43.50	-10.38	200	57
2	120.16	-18.41	48.12	29.71	43.50	-13.79	200	0
3	166.79	-16.94	45.51	28.57	43.50	-14.93	200	43
4	239.86	-17.5	48.19	30.69	46.00	-15.31	200	6
5	272.50	-16.23	45.05	28.82	46.00	-17.18	200	0
6	298.93	-15.48	47.22	31.74	46.00	-14.26	200	29

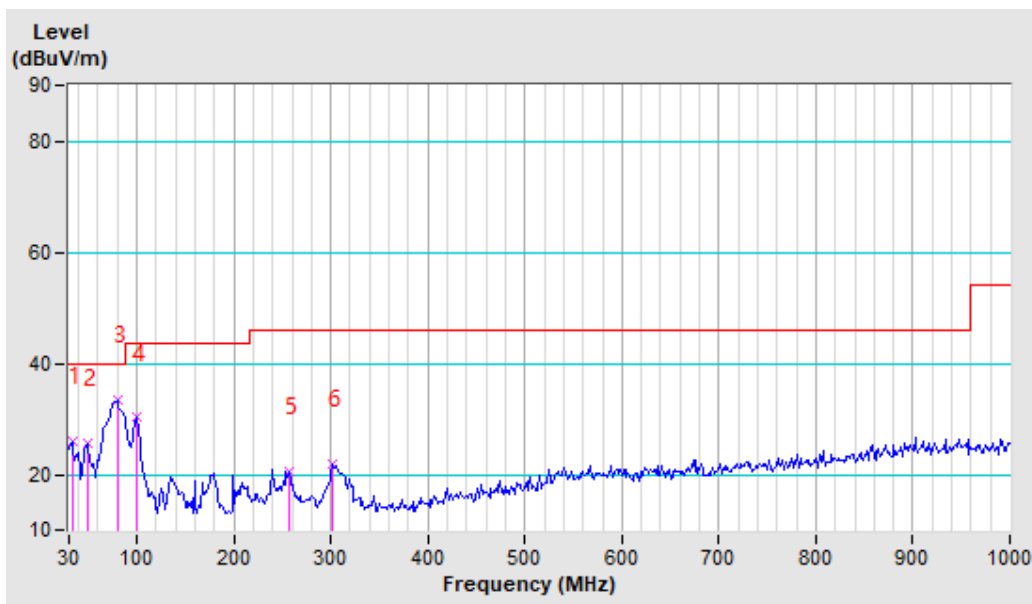
- REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	B	Frequency Range	30MHz ~ 1000MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Jelly

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	33.11	-17.91	43.98	26.07	40.00	-13.93	100	156
2	48.65	-17.19	42.87	25.68	40.00	-14.32	100	171
3	79.74	-21.8	55.27	33.47	40.00	-6.53	100	259
4	99.95	-20.77	50.95	30.18	43.50	-13.32	100	245
5	256.96	-16.95	37.47	20.52	46.00	-25.48	100	207
6	302.04	-15.41	37.27	21.86	46.00	-24.14	100	227

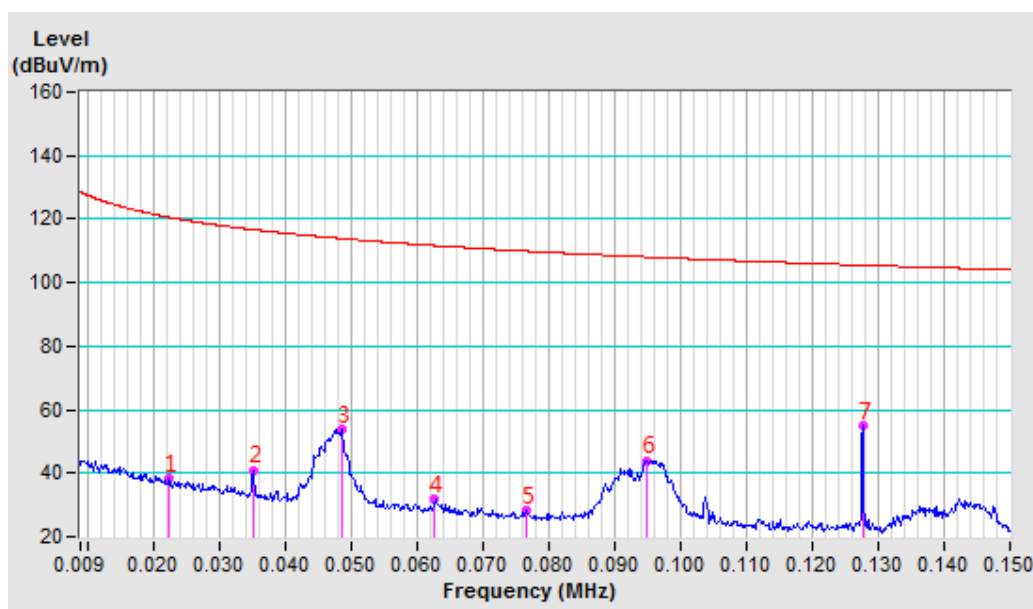
REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



USB-C INPUT Mode

Test Mode	C	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL 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	0.02250 AV	-11.01	49.16	38.15	120.56	-82.41	100	253
2	0.03520 AV	-11.37	52.27	40.90	116.67	-75.77	100	204
3	0.04860 AV	-11.40	65.09	53.69	113.87	-60.18	100	87
4	0.06280 AV	-11.42	43.18	31.76	111.64	-79.88	100	44
5	0.07670 AV	-11.39	39.42	28.03	109.91	-81.88	100	62
6	0.09500 QP	-11.36	55.36	44.00	108.05	-64.05	100	97
7	0.12770 AV	-11.38	66.34	54.96	105.48	-50.52	100	24

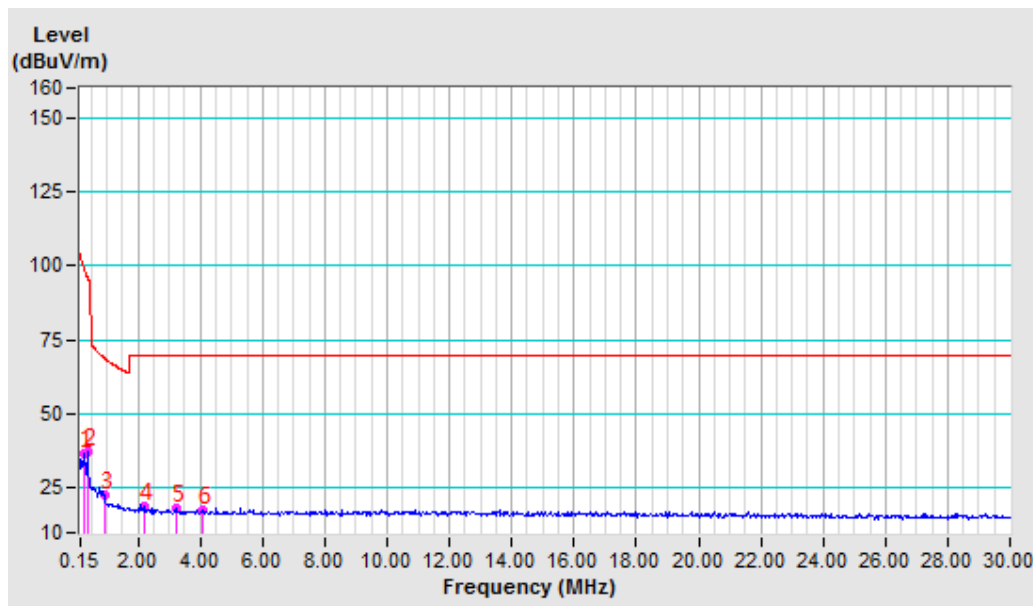




Test Mode	C	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

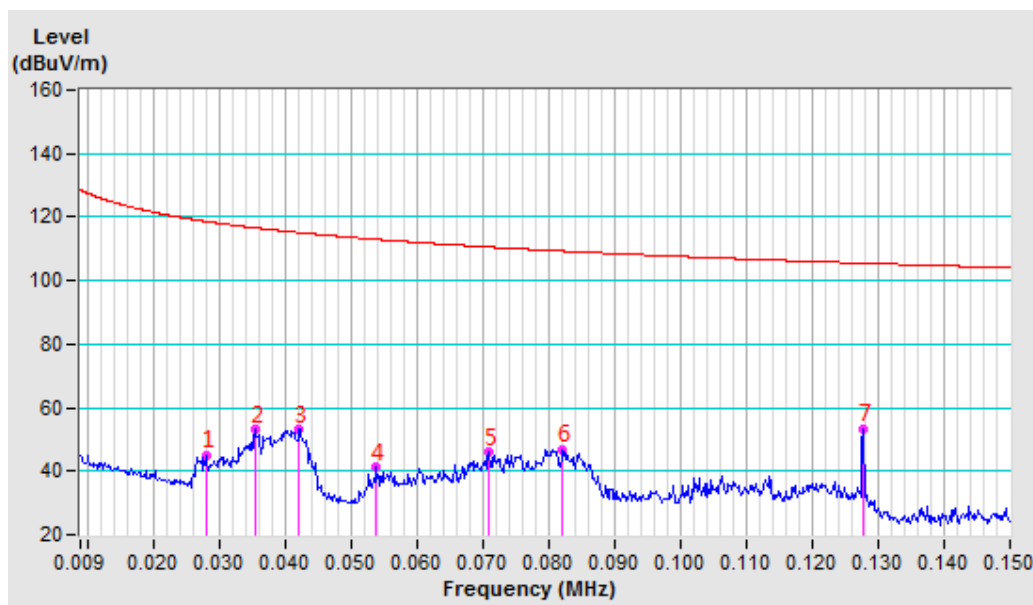
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

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	0.27690 AV	-11.44	48.16	36.72	98.76	-62.04	100	58
2	0.38130 AV	-11.46	48.70	37.24	95.98	-58.74	100	113
3	0.93060 QP	-11.48	34.11	22.63	68.74	-46.11	100	185
4	2.21870 QP	-11.48	30.47	18.99	69.54	-50.55	100	164
5	3.20380 QP	-11.45	29.51	18.06	69.54	-51.48	100	172
6	4.10380 QP	-11.42	29.06	17.64	69.54	-51.90	100	14



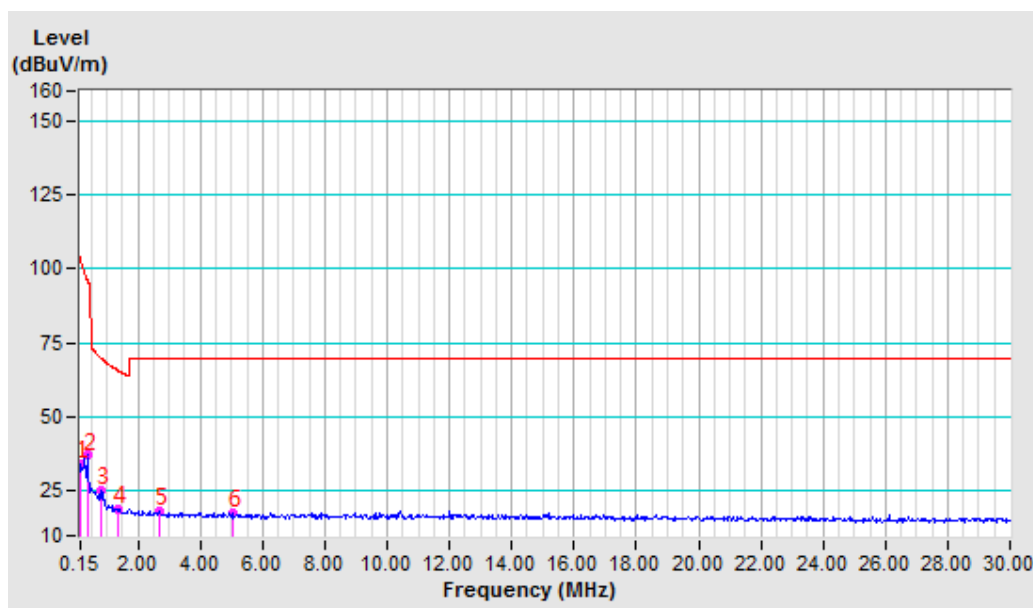
Test Mode	C	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR 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	0.02810 AV	-11.27	56.38	45.11	118.63	-73.52	100	165
2	0.03550 AV	-11.37	64.53	53.16	116.60	-63.44	100	274
3	0.04220 AV	-11.38	64.62	53.24	115.10	-61.86	100	87
4	0.05380 AV	-11.41	52.67	41.26	112.99	-71.73	100	68
5	0.07090 AV	-11.41	57.52	46.11	110.59	-64.48	100	32
6	0.08220 AV	-11.38	58.25	46.87	109.31	-62.44	100	45
7	0.12770 AV	-11.38	64.75	53.37	105.48	-52.11	100	175



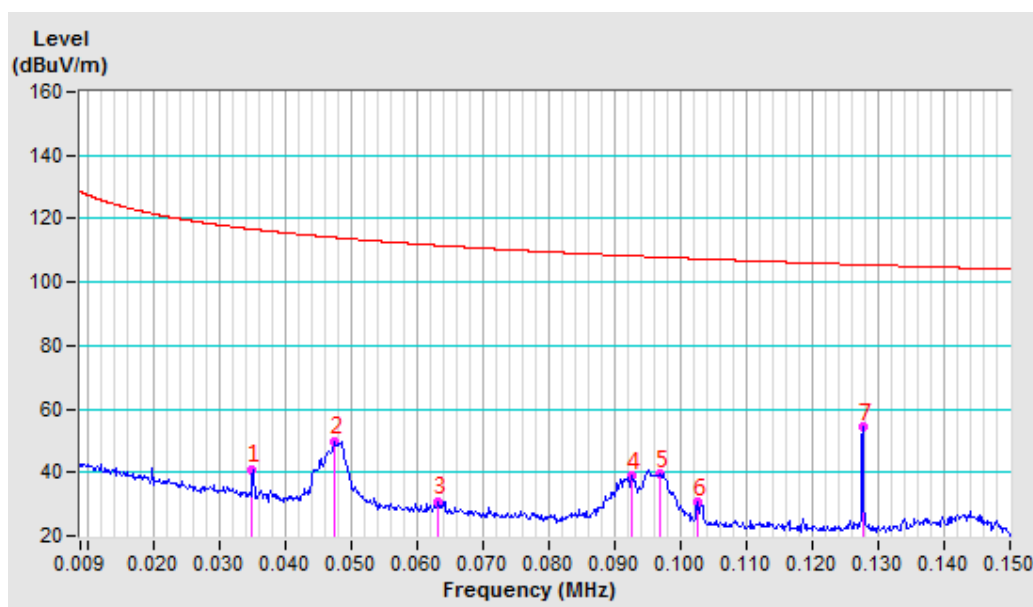
Test Mode	C	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR 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	0.1604 AV	-11.41	45.61	34.20	103.50	-69.30	100	54
2	0.3813 AV	-11.46	48.54	37.08	95.98	-58.90	100	42
3	0.8232 QP	-11.43	36.59	25.16	69.71	-44.55	100	137
4	1.3306 QP	-11.50	30.40	18.90	65.92	-47.02	100	138
5	2.6784 QP	-11.47	29.55	18.08	69.54	-51.46	100	172
6	5.0262 QP	-11.43	29.07	17.64	69.54	-51.90	100	76



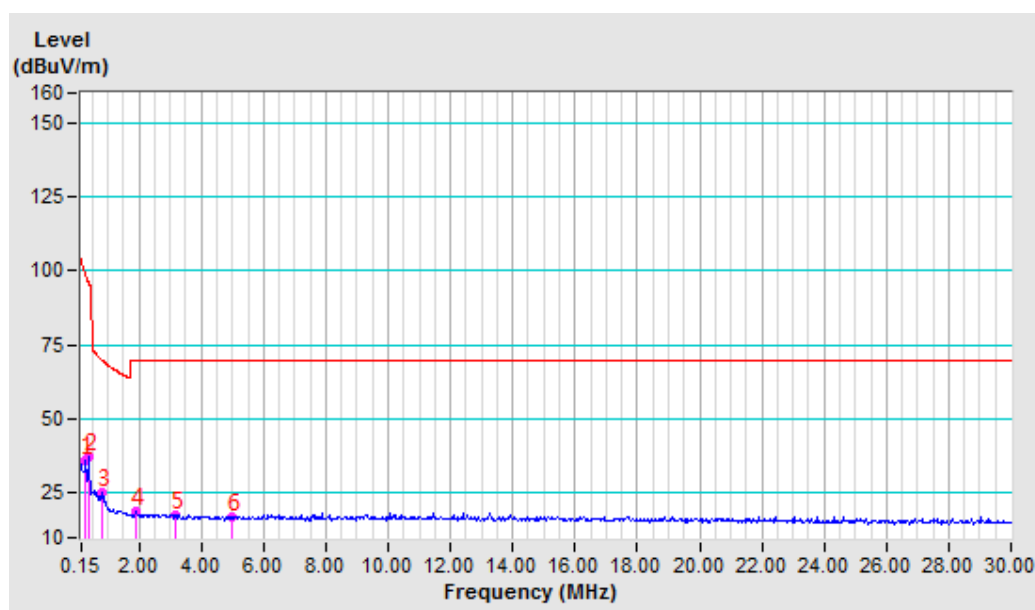
Test Mode	C	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL 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	0.03510 AV	-11.37	52.24	40.87	116.70	-75.83	100	97
2	0.04760 AV	-11.40	61.35	49.95	114.05	-64.10	100	124
3	0.06330 AV	-11.42	42.26	30.84	111.57	-80.73	100	184
4	0.09260 QP	-11.36	50.38	39.02	108.27	-69.25	100	72
5	0.09680 QP	-11.35	50.93	39.58	107.88	-68.30	100	69
6	0.10260 QP	-11.35	42.04	30.69	107.38	-76.69	100	84
7	0.12770 AV	-11.38	65.59	54.21	105.48	-51.27	100	22



Test Mode	C	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 57% RH	Tested By	Jay

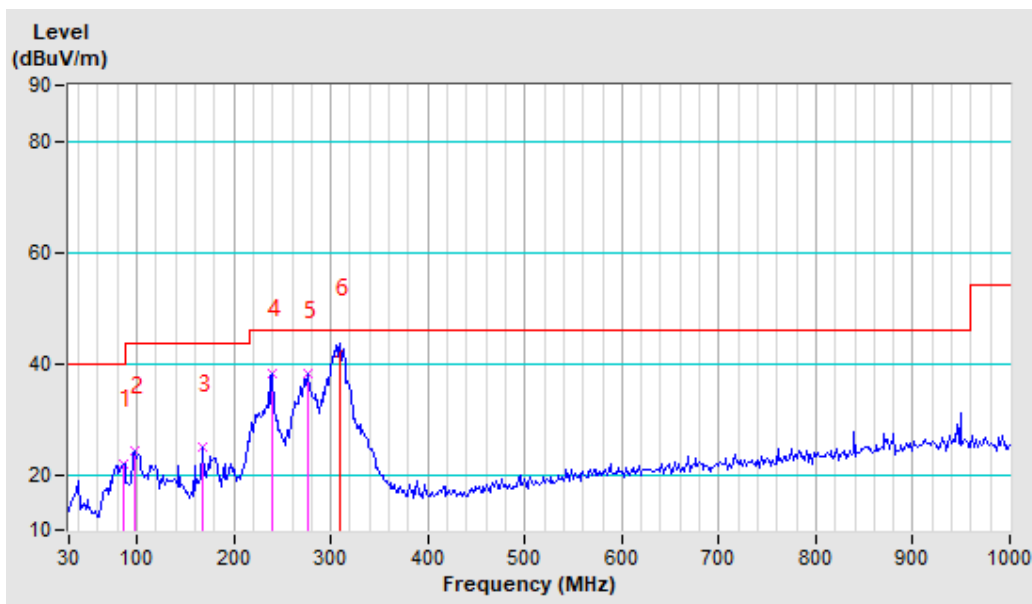
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.28730 AV	-11.44	47.55	36.11	98.44	-62.33	100	72
2	0.38280 AV	-11.46	49.08	37.62	95.94	-58.32	100	135
3	0.82320 QP	-11.43	36.62	25.19	69.71	-44.52	100	164
4	1.92770 QP	-11.48	30.35	18.87	69.54	-50.67	100	177
5	3.17690 QP	-11.45	29.31	17.86	69.54	-51.68	100	64
6	4.96360 QP	-11.43	28.69	17.26	69.54	-52.28	100	86



Test Mode	C	Frequency Range	30MHz ~ 1000MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Jelly

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	85.96	-21.78	43.78	22.00	40.00	-18.00	100	245
2	98.40	-20.92	45.09	24.17	43.50	-19.33	100	14
3	166.79	-16.94	41.71	24.77	43.50	-18.73	100	254
4	239.86	-17.5	55.78	38.28	46.00	-7.72	100	224
5	275.61	-16.08	54.09	38.01	46.00	-7.99	100	51
6	309.00	-15.23	57.23	42.00	46.00	-4.00	125	144

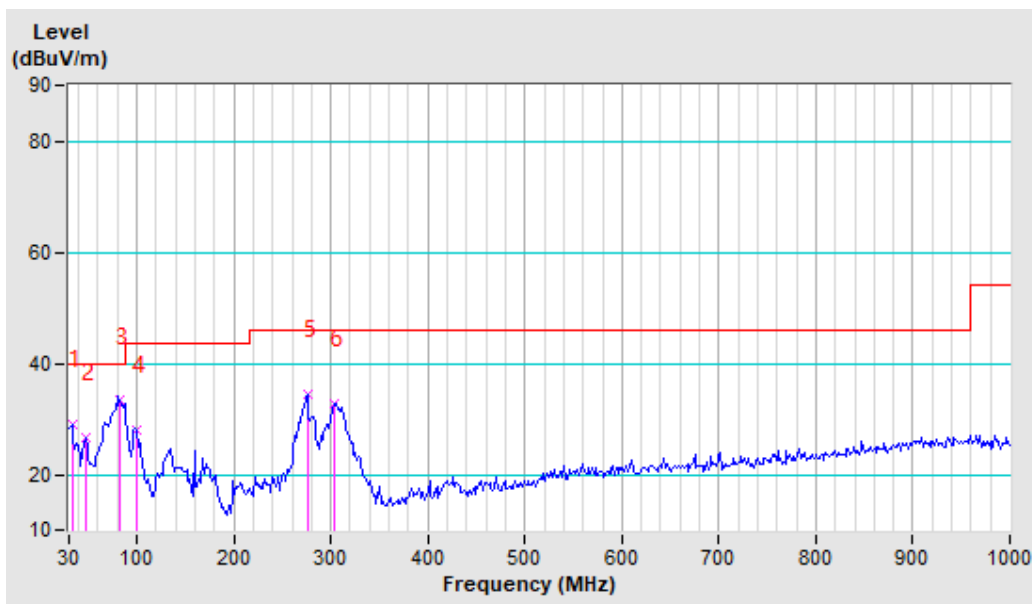
REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	C	Frequency Range	30MHz ~ 1000MHz
Test Voltage	Powered by Adapter Input AC 120V/60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 55% RH	Tested By	Jelly

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	33.11	-17.91	46.88	28.97	40.00	-11.03	100	245
2	47.10	-17.11	43.81	26.70	40.00	-13.30	100	254
3	82.85	-21.82	55.07	33.25	40.00	-6.75	100	22
4	99.95	-20.77	48.80	28.03	43.50	-15.47	100	35
5	275.61	-16.08	50.57	34.49	46.00	-11.51	100	147
6	303.59	-15.37	48.18	32.81	46.00	-13.19	100	286

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.





4.3.20DB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 17,23
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	May 29,22
Amplifier	Burgeon	BPA-530	100210	Mar. 14,23
Test Software	ADT	ADT_Radiated_V 8.7.07	N/A	N/A

NOTES: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room. (Chenwu)

4.3.3 TEST PROCEDURE

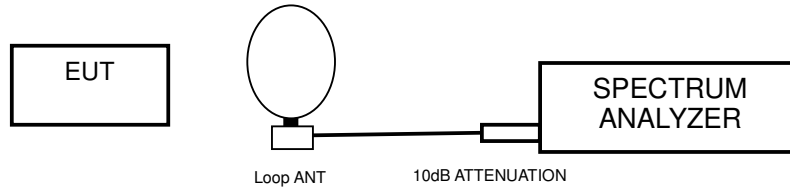
- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.



4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITION

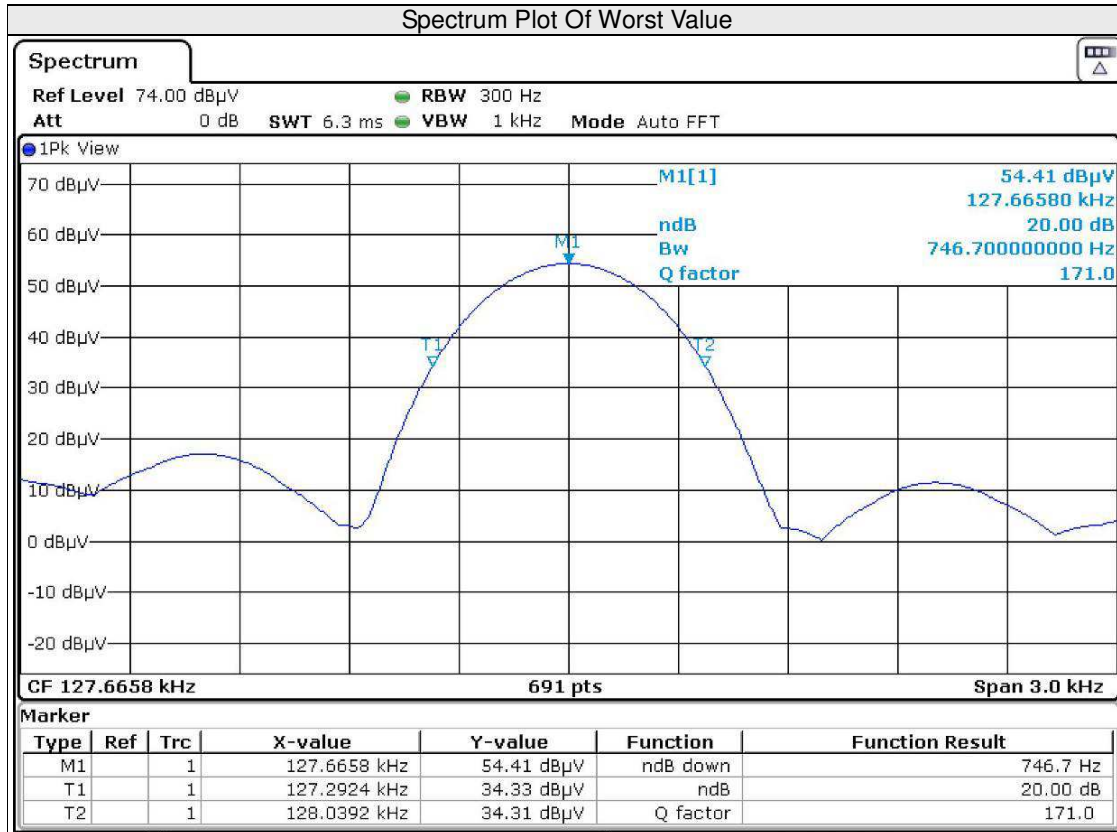
- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively.



4.3.7 TEST RESULTS

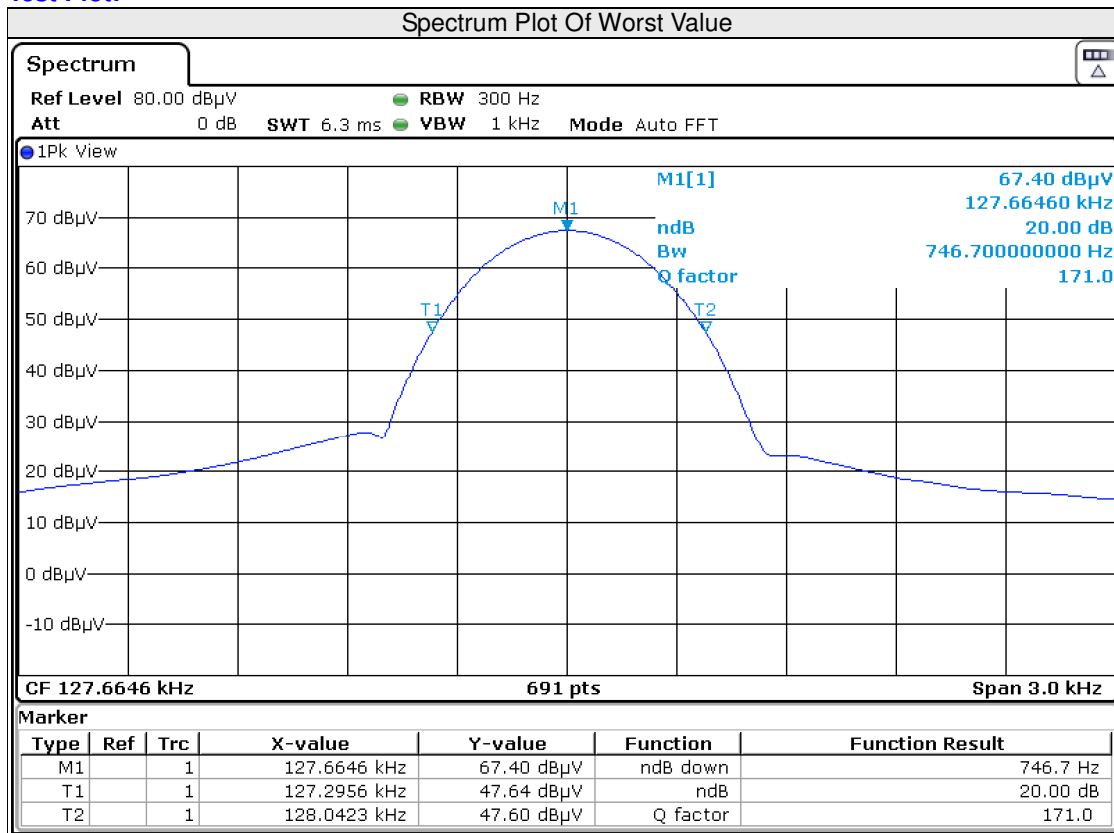
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
A	127.666	746.7

Test Plot:



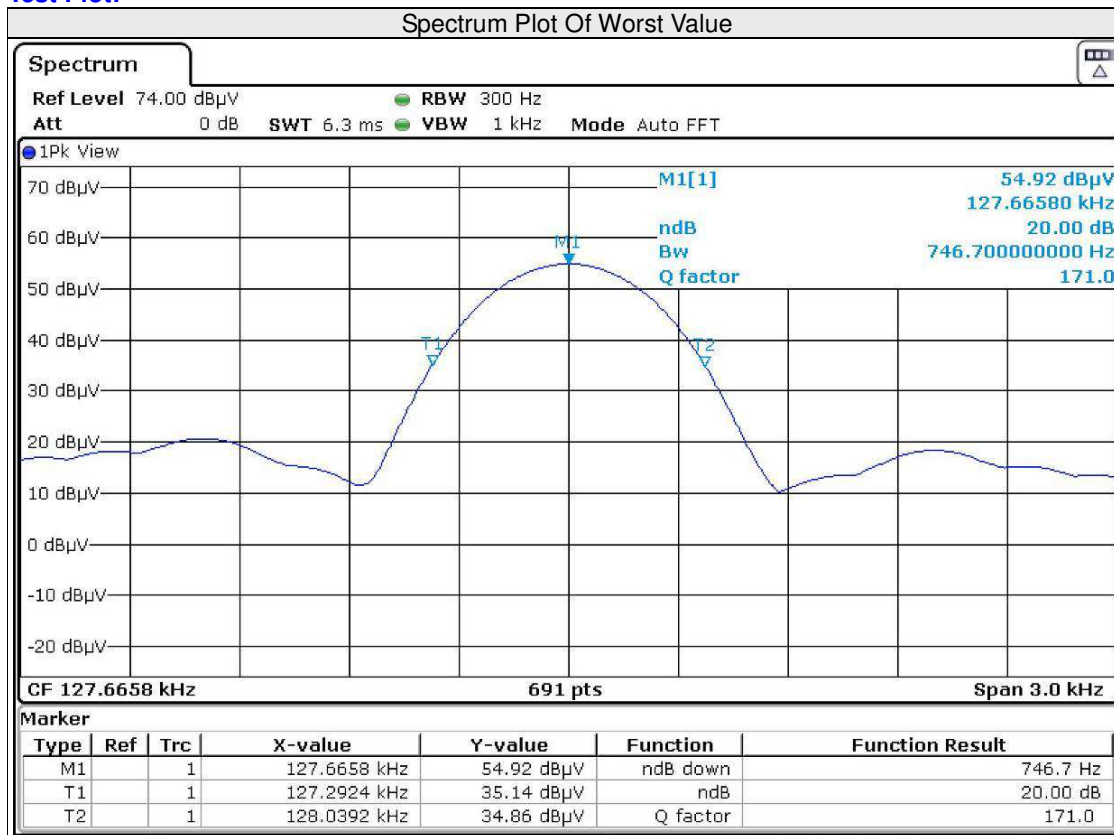
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
B	127.666	746.7

Test Plot:



Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
C	127.666	746.7

Test Plot:



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 were made to the EUT by the lab during the test.

---END---