



FCC TEST REPORT

FCC ID:A7M-MWC19

Product Name:	Three in one Charging Stand
Trademark:	Mangotek, Reflying
Model Number:	MWC19 RWC19, MWC19B, RWC19B, MWC19C, RWC19C, MWC19S, RWC19S
Prepared For :	Shenzhen Reflying Electronic Co., Ltd.
Address :	6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an District, Shenzhen, Guangdong China
Prepared By :	Shenzhen BCTC Testing Co., Ltd.
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Test Date:	Jul. 31, 2018 – Aug. 10, 2018
Date of Report :	Aug. 10, 2018
Report No.:	BCTC-FY180704288E



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TEST REPORT DECLARATION

Applicant : Shenzhen Reflying Electronic Co., Ltd.
Address : 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an District, Shenzhen, Guangdong China
EUT Description : Three in one Charging Stand
Model Number : MWC19
Serial Model : RWC19, MWC19B, RWC19B, MWC19C, RWC19C, MWC19S, RWC19S

Test Standards:

FCC Part 15 C

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report.

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Prepared by(Engineer): Lake Xie

Lake Xie

Reviewer(Supervisor): Rita Xiao

Rita Xiao

Approved(Manager): Carson Zhang

Carson Zhang





1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BCTC approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BCTC in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BCTC therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BCTC, unless the applicant has authorized BCTC in writing to do so.

1.2. Measurement Uncertainty

Available upon request.

1.3. Test Facility

Site Description

Name of Firm : Shenzhen BCTC Testing Co., Ltd.

Site Location

: BCTC Building & 1-2F, East of B Building,
Pengzhou Industrial, Fuyuan 1st Road, Qiaotou
Community, Fuyong Street, Bao'an District,
Shenzhen, China

1.4. Test Uncertainty

Conducted Emission = $\pm 2.66\text{dB}$
Uncertainty

Radiated Emission Uncertainty = $\pm 4.15\text{dB}$



2. PRODUCT DESCRIPTION

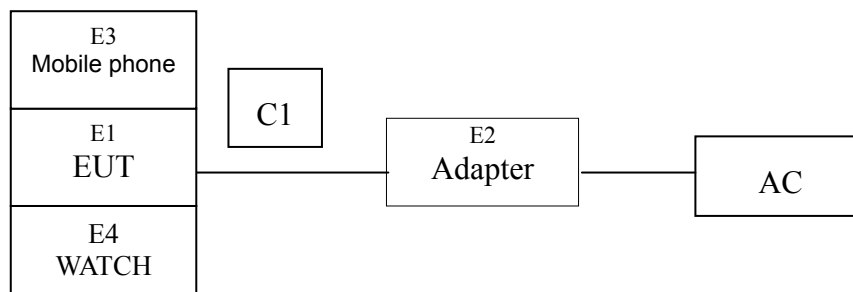
2.1.EUT Description

Description	: Three in one Charging Stand
Applicant	: Shenzhen Reflying Electronic Co., Ltd. 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an District, Shenzhen, Guangdong China
Manufacturer	: Shenzhen Reflying Electronic Co., Ltd. 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an District, Shenzhen, Guangdong China
Model Number	: MWC19
Serial Model	: RWC19, MWC19B, RWC19B, MWC19C, RWC19C, MWC19S, RWC19S
Model Difference	: The product is different for model number and outlook color
Adaptor	: Input: AC 100-240V~50/60Hz 1.0A MAX Output: 12.0V $\overline{\text{---}}$ 3.0A
Ratings	: USB Output DC 5V 2.1A, Wireless charging output 5V 1A (for watch), Wireless charging output 5V 1A(for Mobile phone)
Work Frequency	: 120-220KHz

2.2.Test mode

Test Modes	keeping TX+Charging mode
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2.3.Block Diagram of EUT Configuration



2.4.Test Conditions

Temperature: 23~26℃

Relative Humidity: 54~63 %



2.5. Description Of Support Units (Conducted Mode)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E1	Three in one Charging Stand	N/A	MWC19	N/A	EUT
E2	Adapter	N/A	HNST120300WU	N/A	AC 100-240V~50/60Hz 1.0A MAX 12.0V--- 3.0A
E3	Mobile phone	N/A	iphone8	N/A	EUT
E4	Apple WATCH	N/A	iphone	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	1.0M	DC cable unshielded

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

3. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass

Remark: “N/A” means “Not applicable.”



4. TEST EQUIPMENT USED

4.1. For Conducted Emission Test

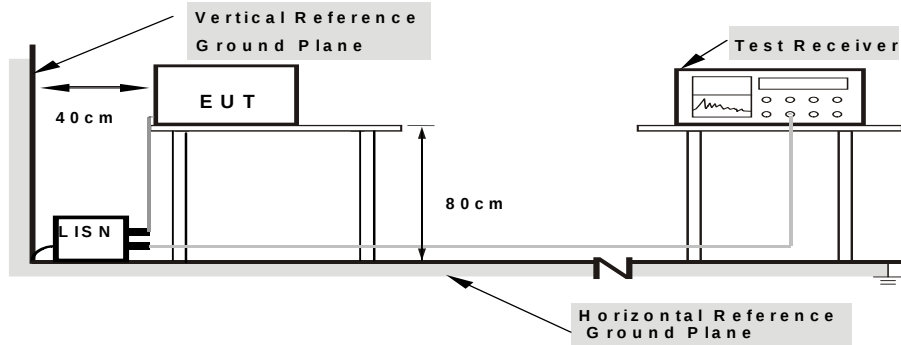
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03-1 01165-ha	2017.08.27	2018.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2017.08.27	2018.08.26
3	LISN	R&S	NSLK8126	8126487	2017.08.27	2018.08.26
4	RF cables	R&S	R204	R20X	2017.08.27	2018.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2017.08.27	2018.08.26

4.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2017.09.03	2018.09.02
6	Amplifier (9kHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2017.08.27	2018.08.26
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2017.08.27	2018.08.26
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2017.08.27	2018.08.26
9	Loop Antenna (9kHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2017.09.03	2018.09.02
10	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163-942	2018.06.23	2019.06.22
11	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2017.08.27	2018.08.26
12	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2017.08.27	2018.08.26
13	Antenna connector	Florida RF Labs	N/A	RF 01#	2017.08.27	2018.08.26
14	Power Metter	ANRITSU	ML2487A	6K00001568	2017.08.27	2018.08.26
15	Power Sensor (AV)	ANRITSU	ML2491A	030989	2017.08.27	2018.08.26
16	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2017.08.27	2018.08.26
17	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2017.08.27	2018.08.26
18	D.C. Power Supply	LongWei	PS-305D	010964729	2017.08.27	2018.08.26

5. CONDUCTED EMISSION TEST

5.1. Block Diagram of 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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure.
The specification used was with the FCC Part 15.207 limits.

5.2. Test Standard

FCC§15.207

5.3. Conducted Emission Limit

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

5.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC Part 15.207 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.



5.5. Operating Condition of EUT

5.5.1. Setup the EUT and simulators as shown in Section 5.1.

5.5.2. Turn on the power of all equipments.

5.5.3. Let the EUT work in test modes (EUT Working) and test it.

5.6. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESHS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10KHz.

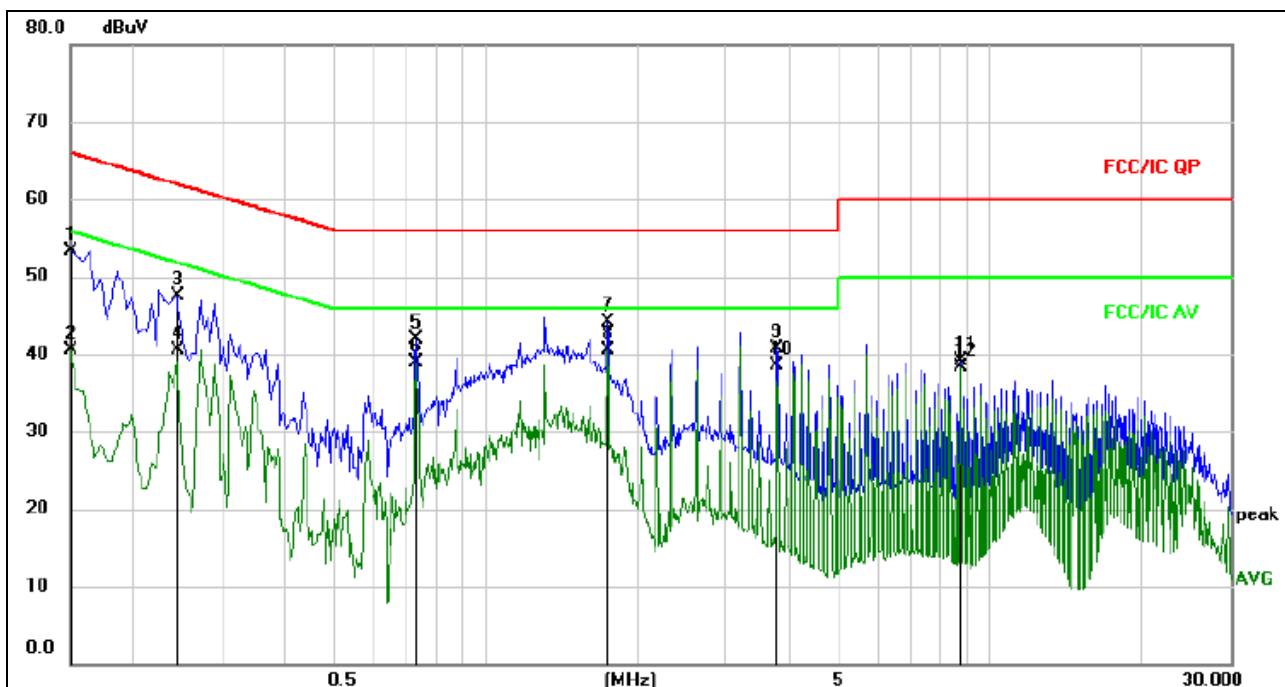
We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

5.7. Test Result

PASS



EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	55%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 12V form Adapter AC 120V/60Hz	Test Mode:	Normal(Mobile phone)



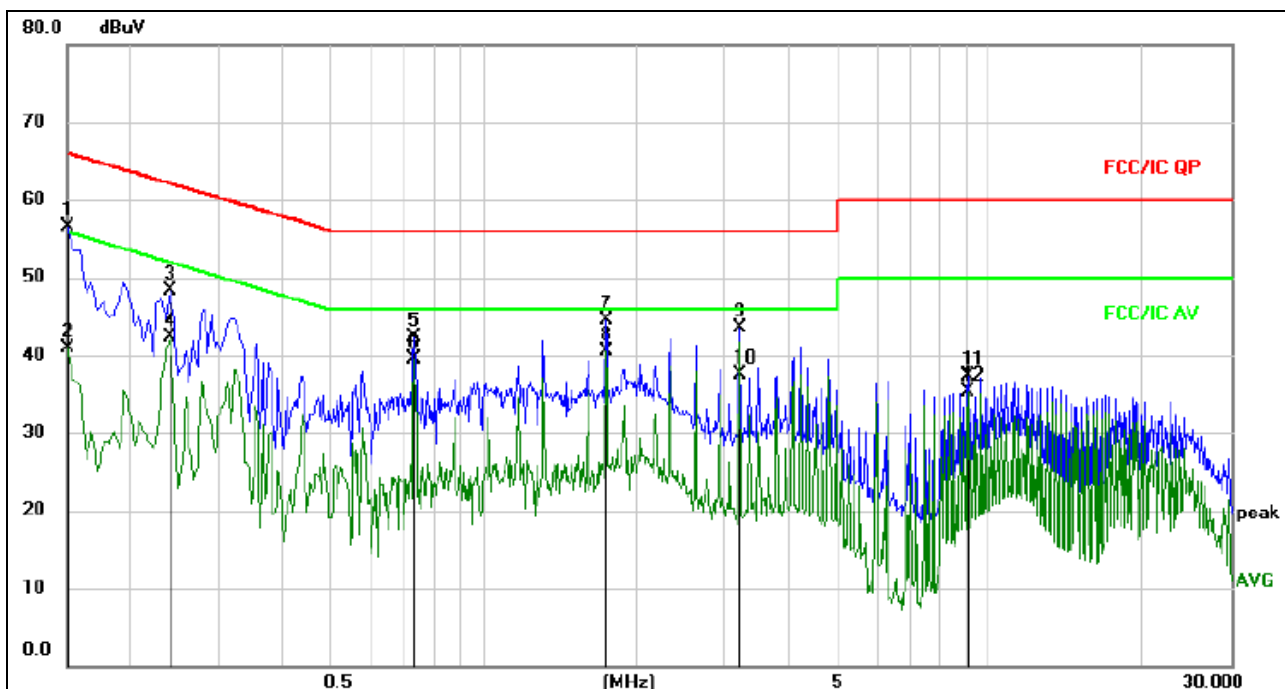
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	43.53	9.77	53.30	66.00	-12.70	QP	
2		0.1500	30.66	9.77	40.43	56.00	-15.57	AVG	
3		0.2445	37.66	9.77	47.43	61.94	-14.51	QP	
4		0.2445	30.76	9.77	40.53	51.94	-11.41	AVG	
5		0.7304	31.97	9.84	41.81	56.00	-14.19	QP	
6		0.7304	29.10	9.84	38.94	46.00	-7.06	AVG	
7		1.7520	34.38	9.78	44.16	56.00	-11.84	QP	
8	*	1.7520	30.72	9.78	40.50	46.00	-5.50	AVG	
9		3.7950	30.75	9.86	40.61	56.00	-15.39	QP	
10		3.7950	28.66	9.86	38.52	46.00	-7.48	AVG	
11		8.7630	29.23	9.90	39.13	60.00	-20.87	QP	
12		8.7630	28.34	9.90	38.24	50.00	-11.76	AVG	



EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	55%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 12V form Adapter AC 120V/60Hz	Test Mode:	Normal(Mobile phone)



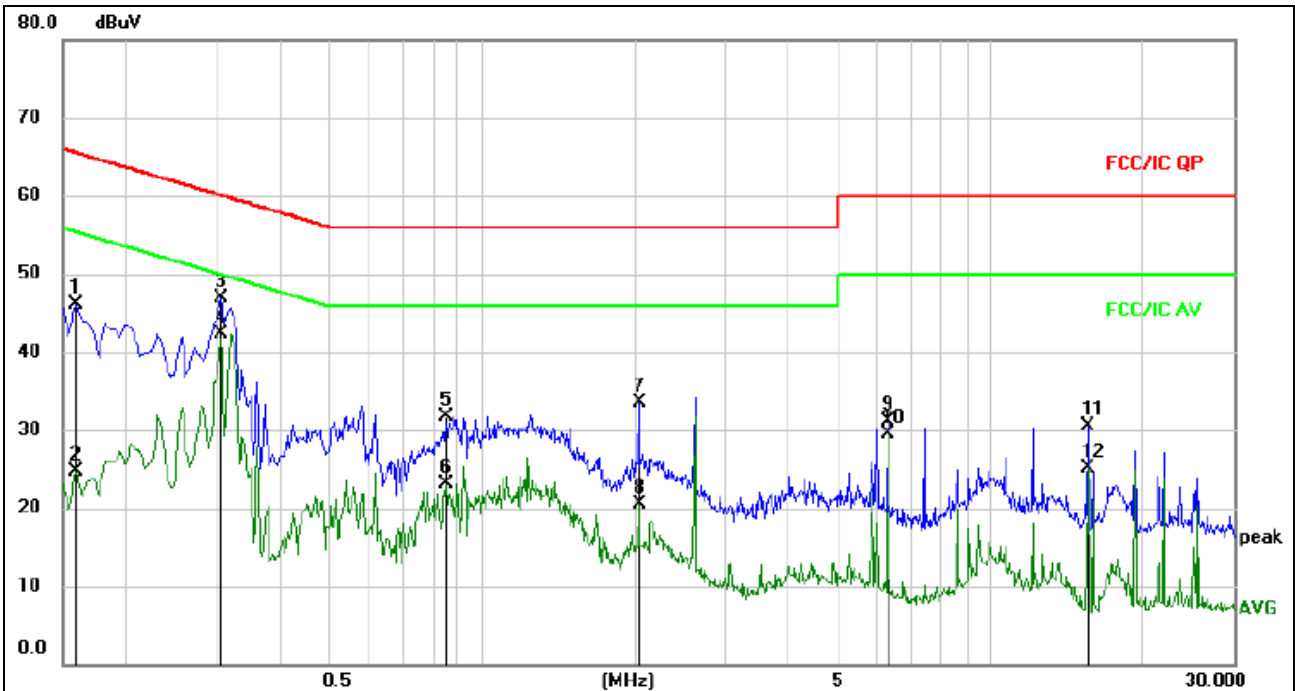
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	46.77	9.77	56.54	66.00	-9.46	QP	
2		0.1500	31.04	9.77	40.81	56.00	-15.19	AVG	
3		0.2400	38.49	9.77	48.26	62.10	-13.84	QP	
4		0.2400	32.47	9.77	42.24	52.10	-9.86	AVG	
5		0.7304	32.44	9.84	42.28	56.00	-13.72	QP	
6		0.7304	29.58	9.84	39.42	46.00	-6.58	AVG	
7		1.7520	34.77	9.78	44.55	56.00	-11.45	QP	
8	*	1.7520	30.76	9.78	40.54	46.00	-5.46	AVG	
9		3.2145	33.68	9.83	43.51	56.00	-12.49	QP	
10		3.2145	27.72	9.83	37.55	46.00	-8.45	AVG	
11		9.0600	27.35	9.90	37.25	60.00	-22.75	QP	
12		9.0600	25.32	9.90	35.22	50.00	-14.78	AVG	



EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	55%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 12V form Adapter AC 120V/60Hz	Test Mode:	Normal(Apple WATCH)



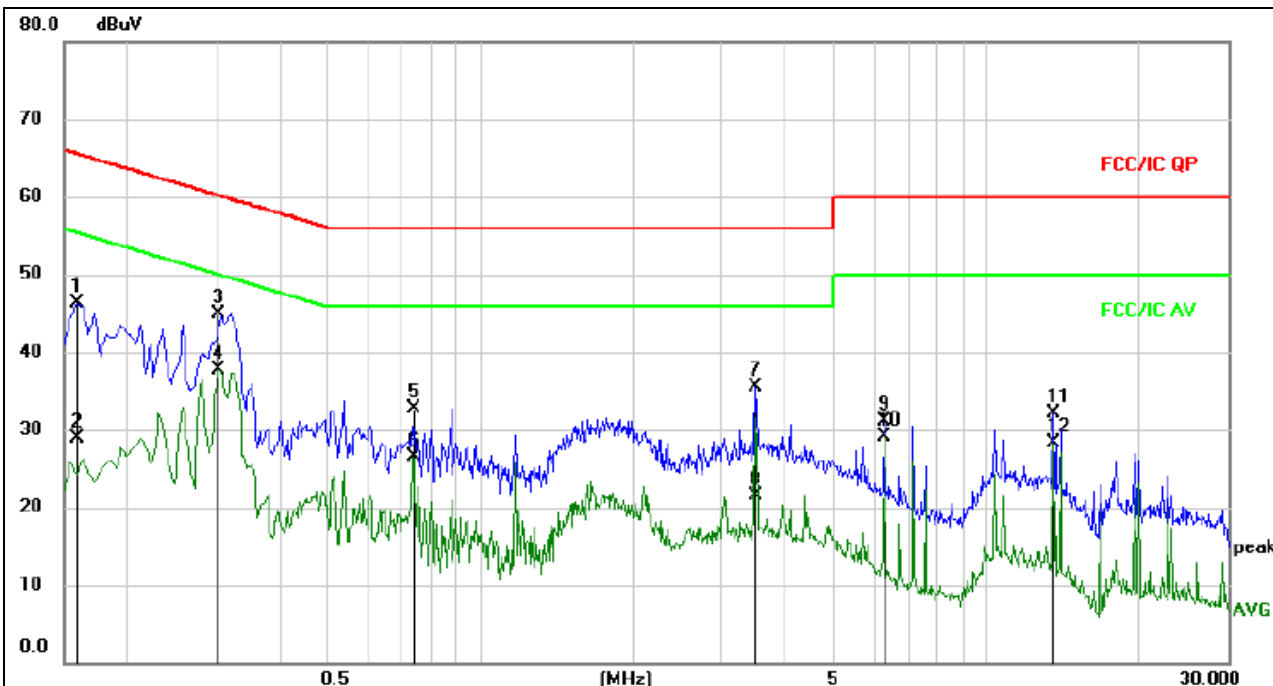
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1590	36.32	9.77	46.09	65.52	-19.43	QP	
2		0.1590	15.01	9.77	24.78	55.52	-30.74	AVG	
3		0.3075	37.11	9.77	46.88	60.04	-13.16	QP	
4	*	0.3075	32.53	9.77	42.30	50.04	-7.74	AVG	
5		0.8520	21.96	9.81	31.77	56.00	-24.23	QP	
6		0.8520	13.38	9.81	23.19	46.00	-22.81	AVG	
7		2.0400	23.73	9.79	33.52	56.00	-22.48	QP	
8		2.0400	10.72	9.79	20.51	46.00	-25.49	AVG	
9		6.2790	21.20	9.91	31.11	60.00	-28.89	QP	
10		6.2790	19.66	9.91	29.57	50.00	-20.43	AVG	
11		15.4725	20.50	10.01	30.51	60.00	-29.49	QP	
12		15.4725	15.08	10.01	25.09	50.00	-24.91	AVG	



EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	55%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 12V form Adapter AC 120V/60Hz	Test Mode:	Normal(Apple WATCH)



Remark:

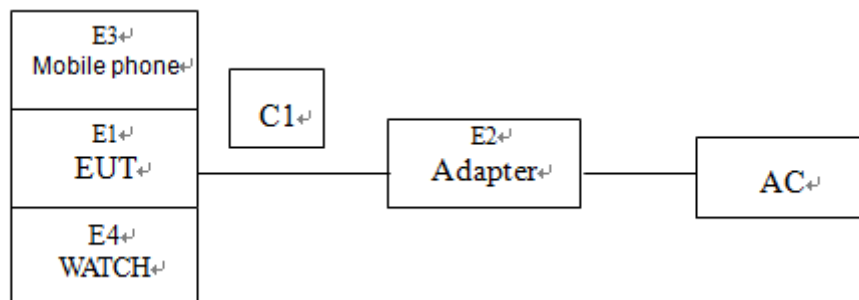
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1590	38.47	9.77	48.24	65.52	-19.28	QP	
2		0.1590	19.17	9.77	28.94	55.52	-26.58	AVG	
3		0.3030	35.15	9.78	44.93	60.16	-15.23	QP	
4	*	0.3030	27.88	9.78	37.66	50.16	-12.50	AVG	
5		0.7350	22.86	9.84	32.70	56.00	-23.30	QP	
6		0.7350	16.63	9.84	26.47	46.00	-19.53	AVG	
7		3.5070	25.61	9.85	35.46	56.00	-20.54	QP	
8		3.5070	11.57	9.85	21.42	46.00	-24.58	AVG	
9		6.2835	21.23	9.91	31.14	60.00	-28.86	QP	
10		6.2835	19.14	9.91	29.05	50.00	-20.95	AVG	
11		13.5870	22.11	9.97	32.08	60.00	-27.92	QP	
12		13.5870	18.40	9.97	28.37	50.00	-21.63	AVG	

6. RADIATED EMISSION MEASUREMENT

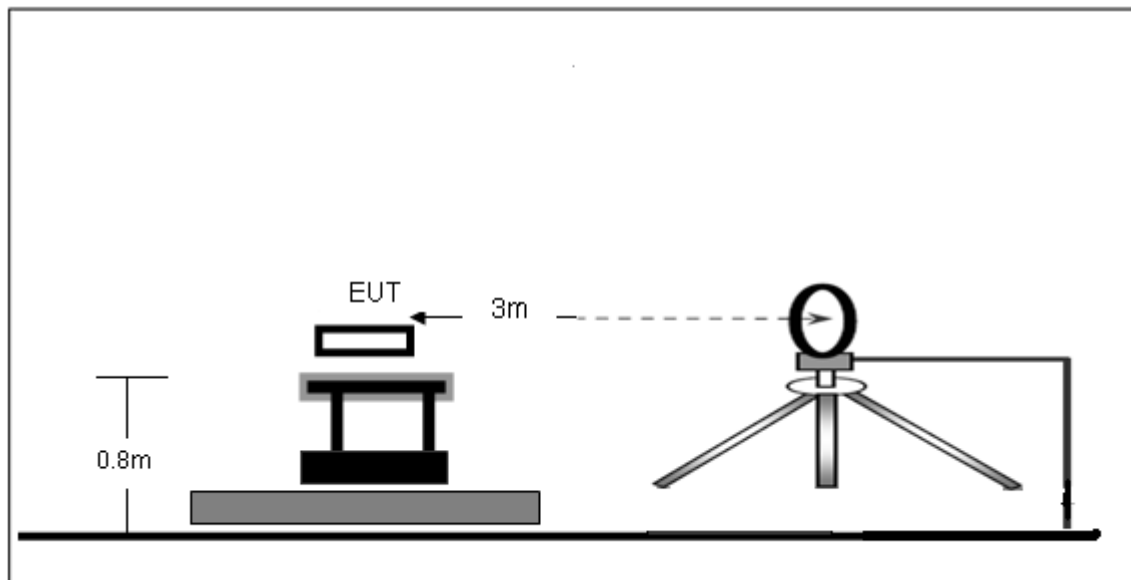
6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of connection between the EUT and the simulators

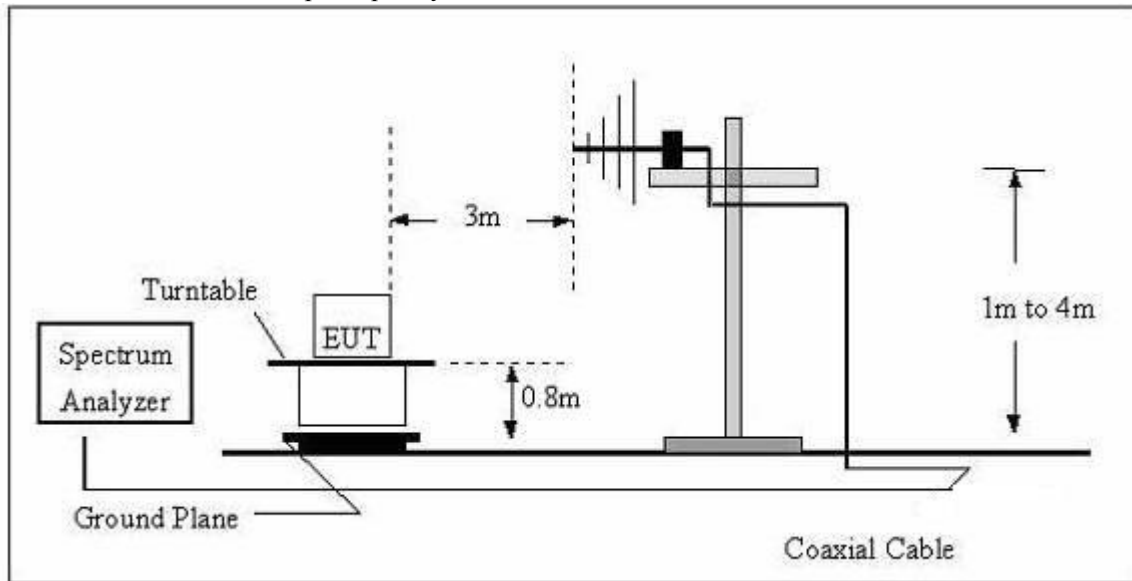


6.1.2. Anechoic Chamber Test Setup Diagram

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

6.2.Test Standard and Limit

FCC §15.209; §15.205

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3



6.3.EMI Test Receiver Setup

The system was investigated from 9kHz to1GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
9 kHz – 150 kHz	200 kHz	1 kHz	QP
150 kHz – 30MHz	9kHz	30kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

6.4.Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

6.5.Test Result

PASS

**9kHz-30MHz**

EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 12V form Adapter AC 120V/60Hz		
Test Mode :	Normal		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(kHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19.2500	39.42	20.15	59.57	141.92	-82.35	PK
19.2500	36.17	20.15	56.32	121.92	-65.60	AV
53.3600	50.66	20.33	70.99	133.06	-62.07	PK
53.3600	46.38	20.33	66.71	113.06	-46.35	AV
146.5000	68.22	20.55	88.77	124.29	-35.52	PK
146.5000	63.68	20.55	84.23	104.29	-20.06	AV
685.4900	31.33	20.64	51.97	70.88	-18.91	QP
968.4500	35.18	21.26	56.44	67.88	-11.44	QP
1229.3400	24.69	22.32	47.01	65.81	-18.80	QP

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

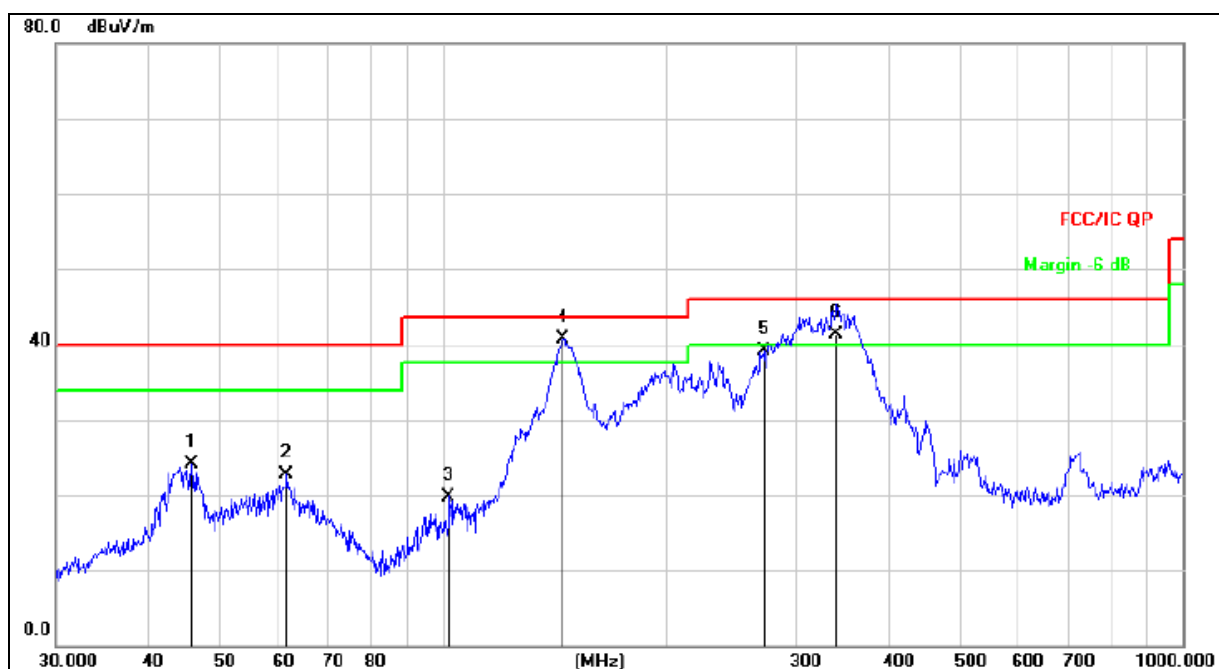
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



30MHz-1GHz

EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 12V form Adapter AC 120V/60Hz		
Test Mode :	Normal(Mobile phone)		

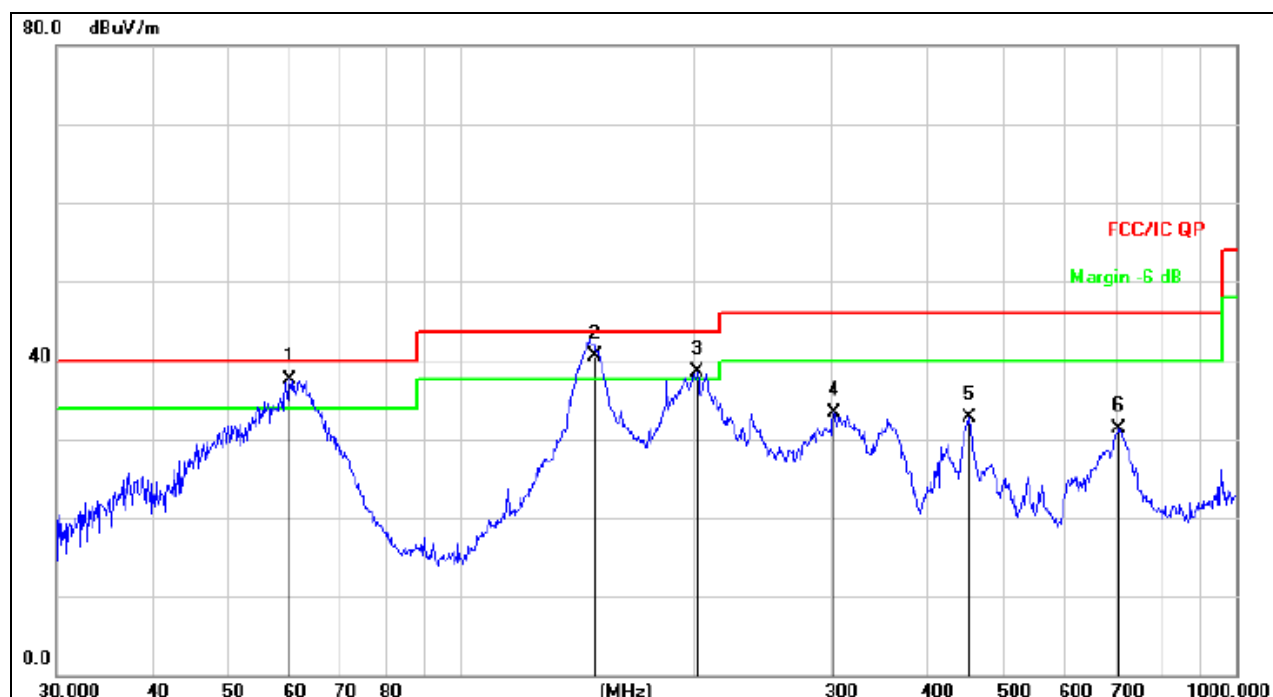


Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		45.6948	38.08	-14.03	24.05	40.00	-15.95	QP
2		61.5618	38.55	-15.90	22.65	40.00	-17.35	QP
3		102.0014	35.38	-15.58	19.80	43.50	-23.70	QP
4	*	145.3506	59.88	-19.20	40.68	43.50	-2.82	QP
5		271.3246	54.04	-14.91	39.13	46.00	-6.87	QP
6	!	340.4590	54.02	-12.74	41.28	46.00	-4.72	QP



EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 12V form Adapter AC 120V/60Hz		
Test Mode :	Normal(Mobile phone)		



Remark:

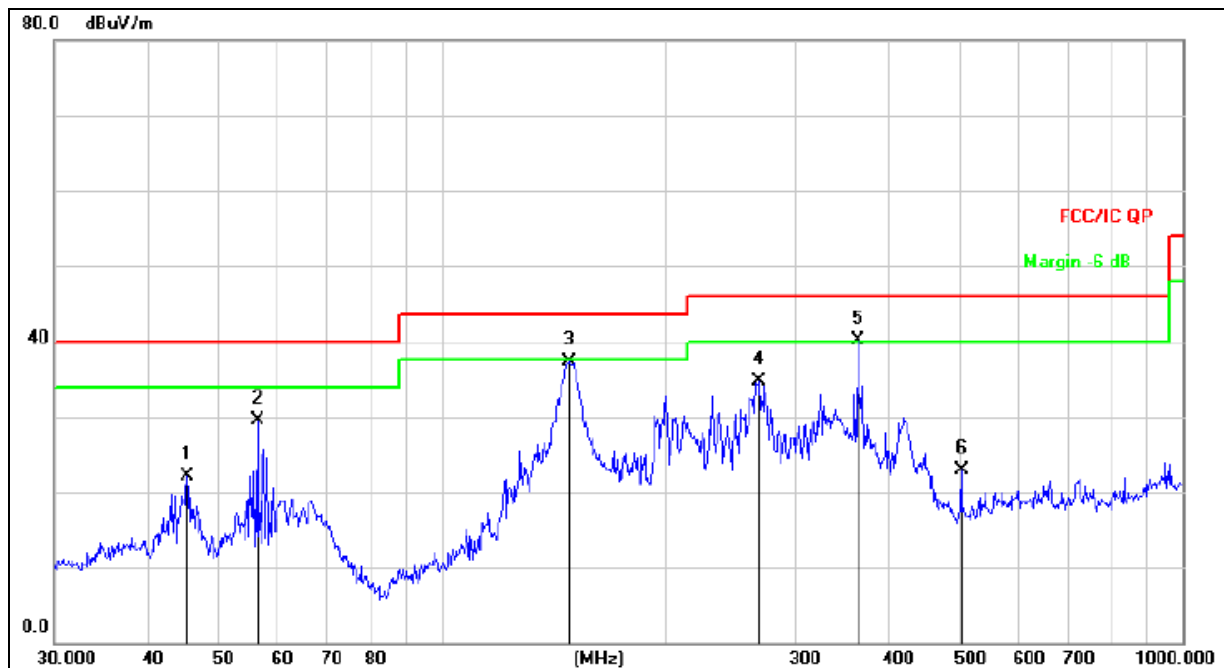
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	*	60.0690	53.14	-15.60	37.54	40.00	-2.46	QP
2	!	148.6115	59.52	-19.04	40.48	43.50	-3.02	QP
3	!	201.3930	54.79	-16.27	38.52	43.50	-4.98	QP
4		302.4812	46.69	-13.47	33.22	46.00	-12.78	QP
5		452.7196	43.38	-10.59	32.79	46.00	-13.21	QP
6		706.6998	36.90	-5.56	31.34	46.00	-14.66	QP



30MHz-1GHz

EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 12V form Adapter AC 120V/60Hz		
Test Mode :	Normal(Apple WATCH)		



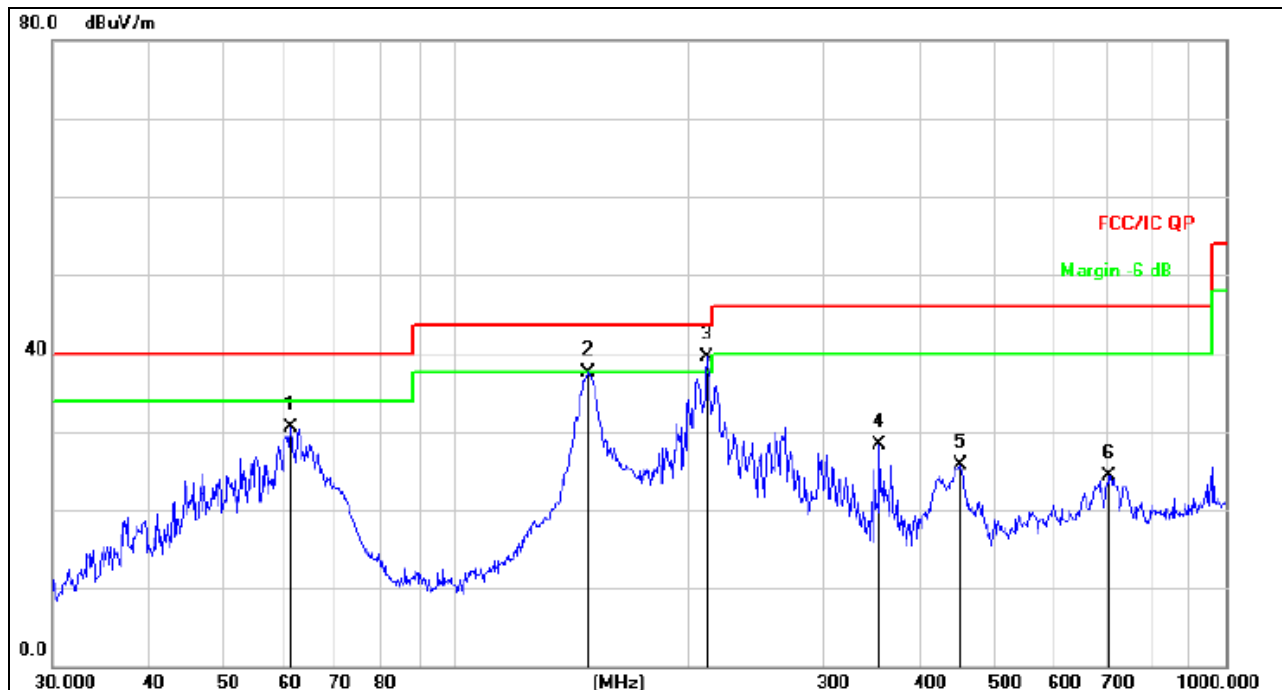
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		45.3755	36.20	-14.02	22.18	40.00	-17.82	QP
2		56.3948	44.57	-15.00	29.57	40.00	-10.43	QP
3		148.9625	56.40	-19.02	37.38	43.50	-6.12	QP
4		268.4853	49.55	-14.94	34.61	46.00	-11.39	QP
5	*	364.2595	52.26	-12.18	40.08	46.00	-5.92	QP
6		502.9395	32.15	-9.26	22.89	46.00	-23.11	QP



EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 12V form Adapter AC 120V/60Hz		
Test Mode :	Normal(Apple WATCH)		



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dB/m	dB	
1		61.1316	46.27	-15.82	30.45	40.00	-9.55	QP
2		148.9625	56.43	-19.02	37.41	43.50	-6.09	QP
3	*	212.2695	55.71	-16.21	39.50	43.50	-4.00	QP
4		355.4273	40.46	-12.18	28.28	46.00	-17.72	QP
5		452.7197	36.23	-10.59	25.64	46.00	-20.36	QP
6		706.6999	29.90	-5.56	24.34	46.00	-21.66	QP



7. BANDWIDTH TEST

1. Set RBW = 3 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

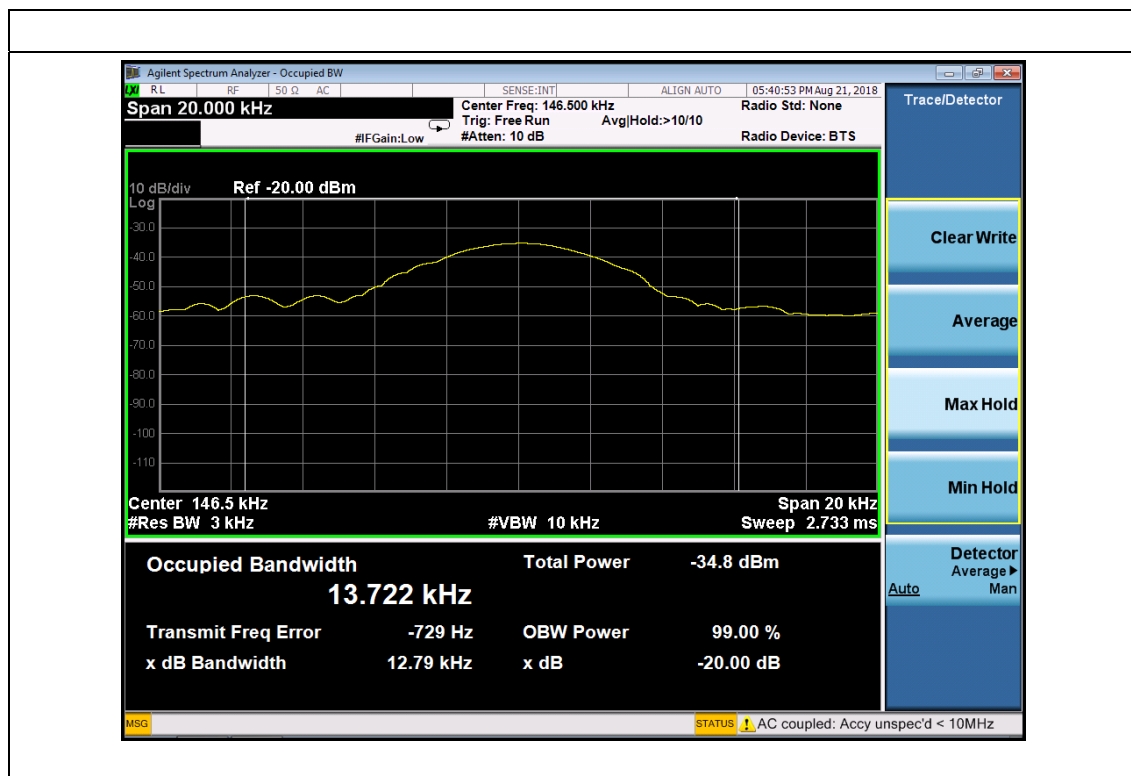
TEST SETUP





EUT:	Three in one Charging Stand	Model Name :	MWC19
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
146.5	12.79	13.722	Pass

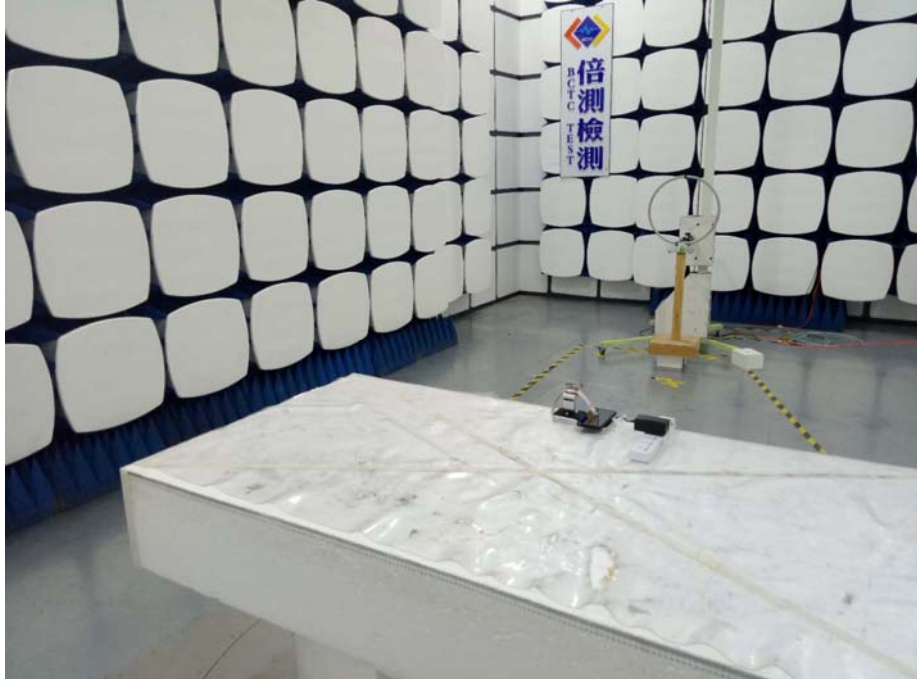


8. EUT TEST PHOTOS

Conducted Measurement Photos



Radiated Measurement Photos
9KHz-30MHz



30MHz-1GHz



9. EUT PHOTOS



***** END OF REPORT *****