

FCC TEST REPORT

For

Sanho Corporation

HyperDrive USB-C Hub + 7.5W Wireless Charger

Model No.: HD258B

Prepared For : Sanho Corporation
Address : 930 Auburn Court, Fremont, California, United States, 94538

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
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Report Number : SZAWW180605008-01
Date of Receipt : Jun. 05, 2018
Date of Test : Jun. 05~Sept. 11, 2018
Date of Report : Sept. 11, 2018

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TEST REPORT

Applicant : Sanho Corporation
Manufacturer : Sanho Corporation
Product Name : HyperDrive USB-C Hub + 7.5W Wireless Charger
Model No. : HD258B
Trade Mark : HyperDrive
Rating(s) : Type-c Input 1: 5V, 3A / 9V, 3A / 12V, 3A / 15V, 3A / 20V, 4.3A Max.
Type-c Input 2 (USB PD 3.0): 5V, 3A / 9V, 3A / 12V, 3A / 15V, 3A / 20V, 4.3A Max.
Type-c Input 3 (Apple's original charger): 5V, 2.4A / 14.5V, 2A / 20.3V, 4.3A Max.
Wireless Output: 5W/7.5W/10W
USB 2.0 Output: 5V, 500mA Max.
USB 3.0 Output: 5V, 900mA Max.

Test Standard(s) : FCC Part15 Subpart C 2017, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2013

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

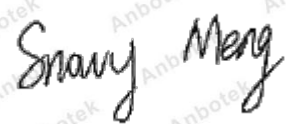
Date of Test Jun. 05~Sept. 11, 2018

Prepared by



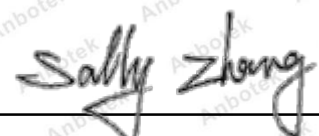
(Engineer / Tangcy Tang)

Reviewer



(Supervisor / Snowy Meng)

Approved & Authorized Signer



(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	Sanho Corporation
Address	:	930 Auburn Court, Fremont, California, United States, 94538
Manufacturer	:	Sanho Corporation
Address	:	930 Auburn Court, Fremont, California, United States, 94538

1.2. Description of Device (EUT)

Product Name	:	HyperDrive USB-C Hub + 7.5W Wireless Charger	
Model No.	:	HD258B	
Trade Mark	:	HyperDrive	
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter	
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)	
Product Description	:	Operation Frequency:	111-205KHz
		Modulation Type:	FSK
		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used During Test

Adapter	:	PIQ 2.0 Output: 5V=== 3A/ 9V=== 2A/ 12V=== 1.5A USB-C PD Output: 5V 3A/ 9V=== 3A/ 15V=== 2A/ 20V=== 1.5A
Mobile Phone	:	Manufacture: Samsung Model: S8

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

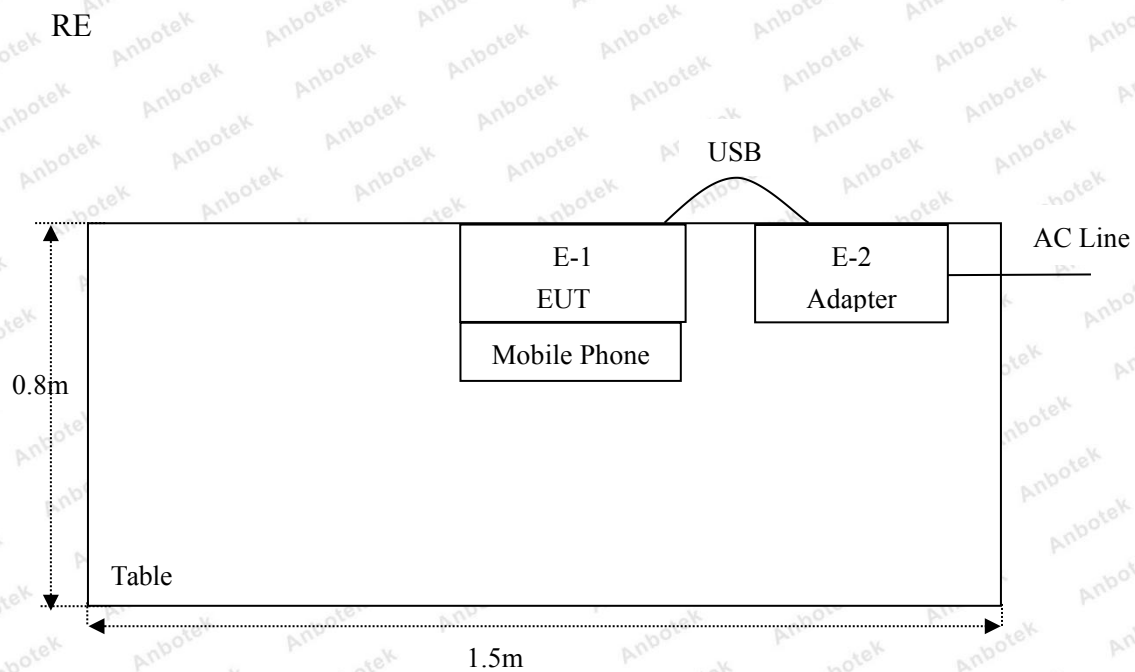
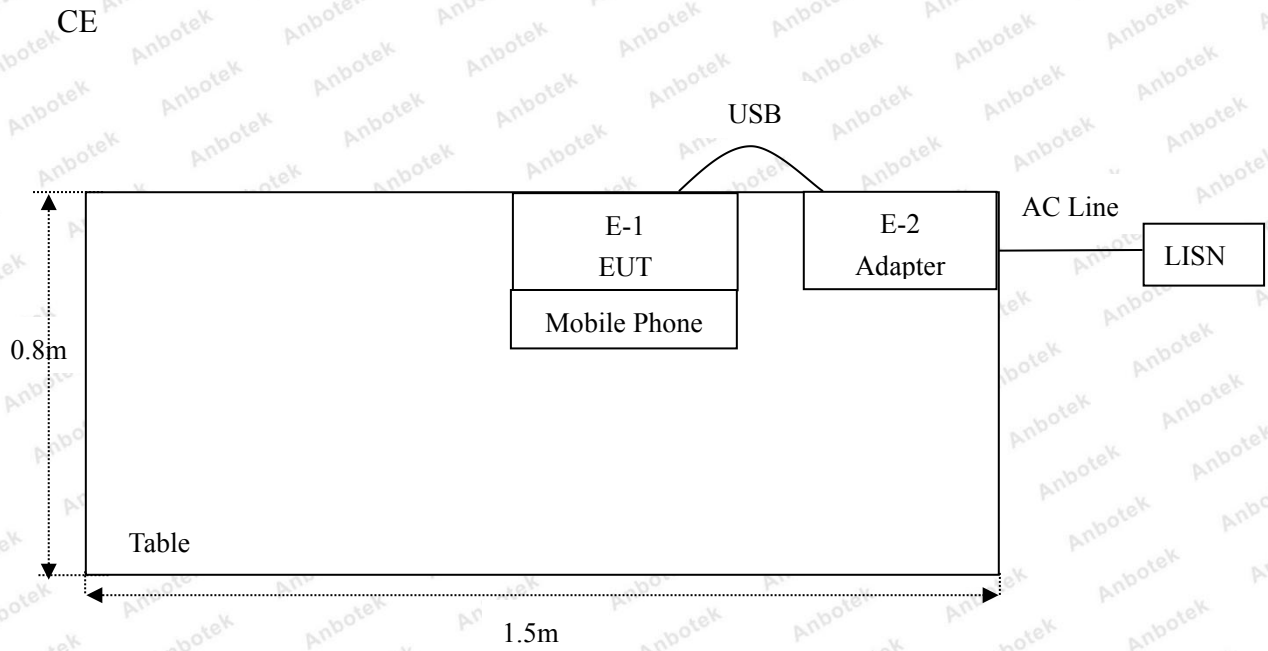
Remark: All the conditions have been tested. It is found that 20V/4.3A in type-c Input 1 is the worst mode, and the data in the report only reflects the worst mode

Pretest Mode	Description
Mode 1	TX mode

For Conducted Emission	
Final Test Mode	Description
Mode 1	TX mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX mode

1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 17, 2017	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
9.	Inductive loop coil Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
10.	Horn Antenna	Schwarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
19.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
20.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year

1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS

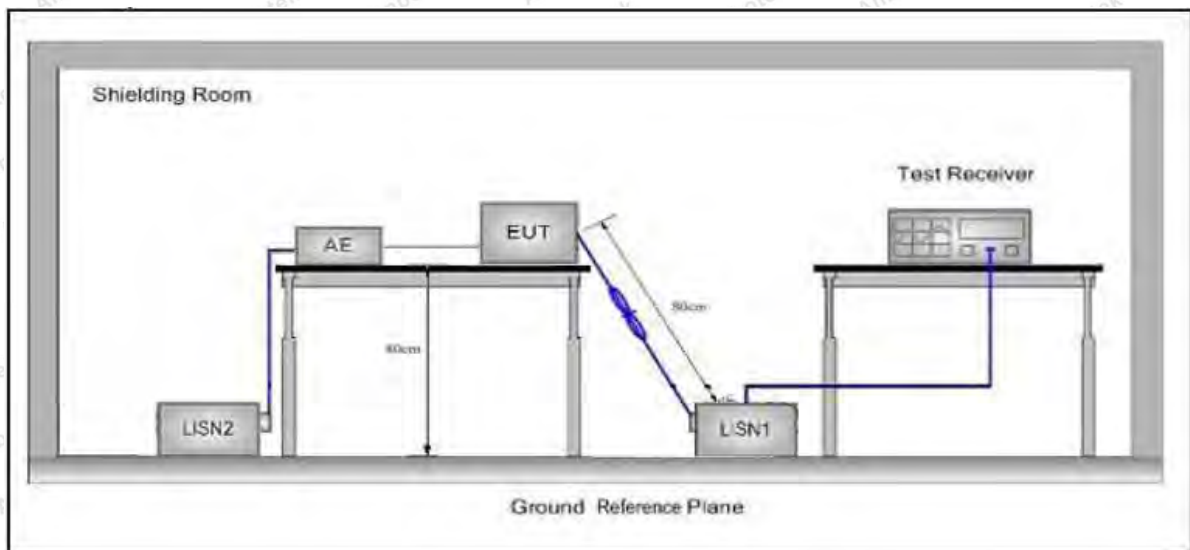
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

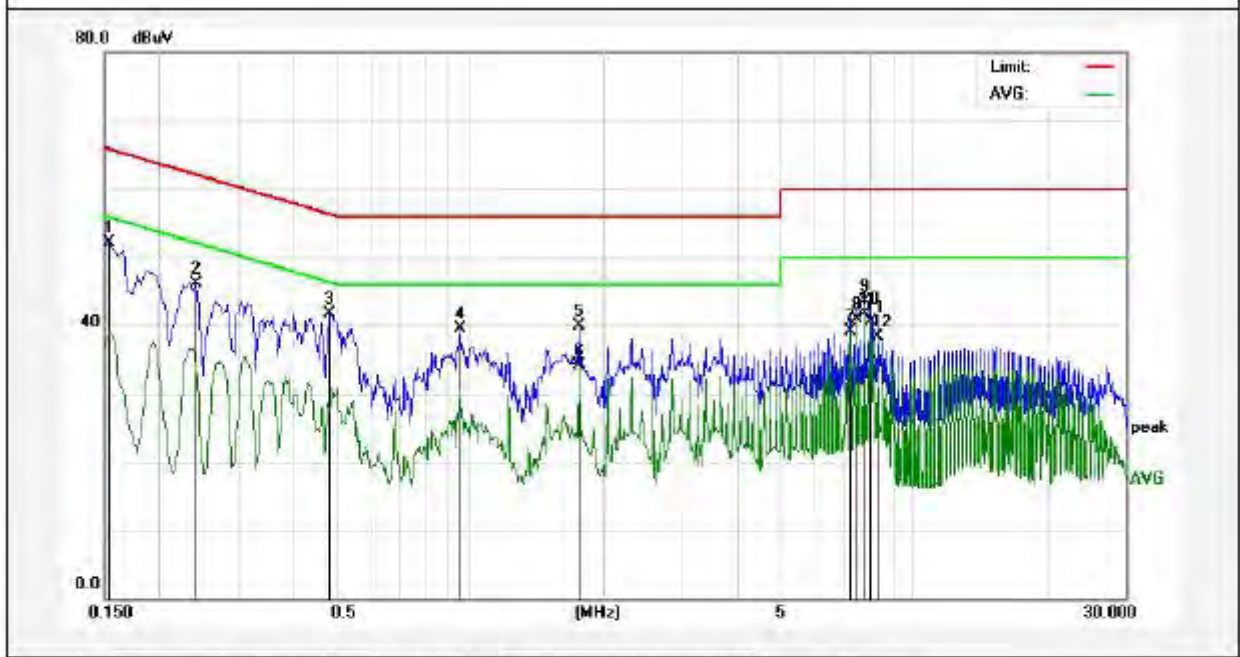
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

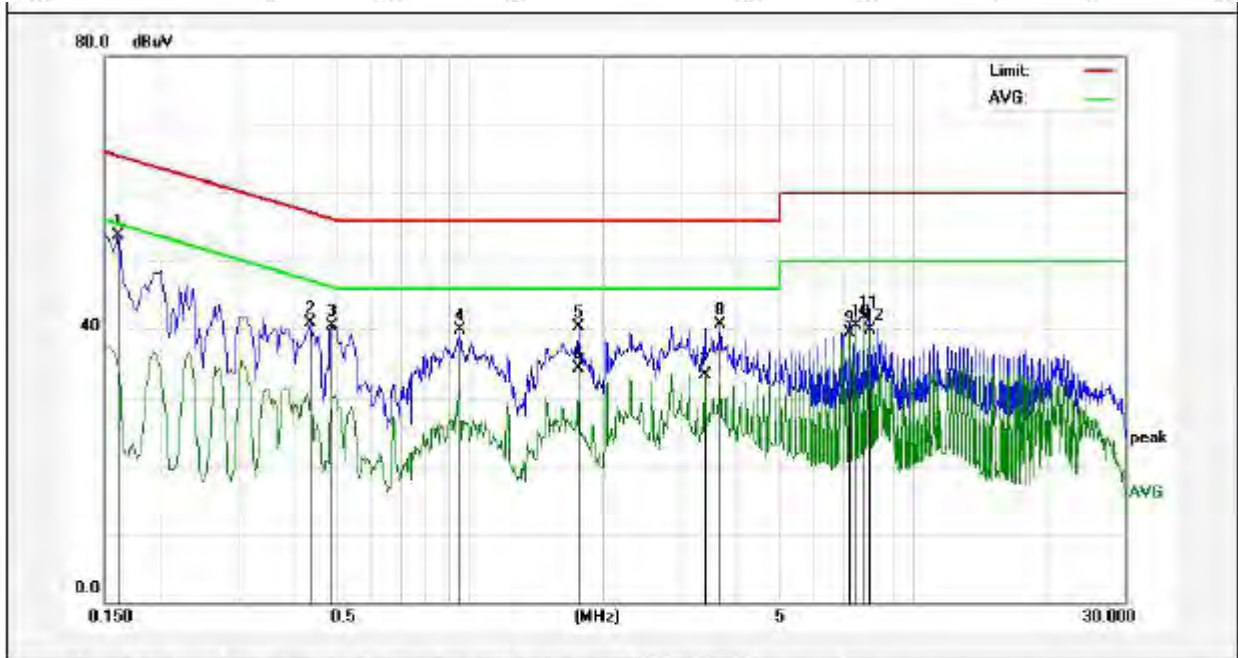
Test Site: 1# Shielded Room
 Operating Condition: TX mode
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1539	32.11	19.90	52.01	65.78	-13.77	QP	
2	0.2420	26.19	19.89	46.08	62.02	-15.94	QP	
3	0.4860	21.76	19.97	41.73	56.24	-14.51	QP	
4	0.9500	19.49	20.11	39.60	56.00	-16.40	QP	
5	1.7660	19.79	20.14	39.93	56.00	-16.07	QP	
6	1.7660	13.88	20.14	34.02	46.00	-11.98	AVG	
7	7.2020	18.82	20.27	39.09	50.00	-10.91	AVG	
8	7.4740	20.61	20.27	40.88	50.00	-9.12	AVG	
9	7.7460	23.16	20.28	43.44	60.00	-16.56	QP	
10	7.7460	21.37	20.28	41.65	50.00	-8.35	AVG	
11	8.0180	20.31	20.29	40.60	50.00	-9.40	AVG	
12	8.2900	17.99	20.29	38.28	50.00	-11.72	AVG	

Conducted Emission Test Data

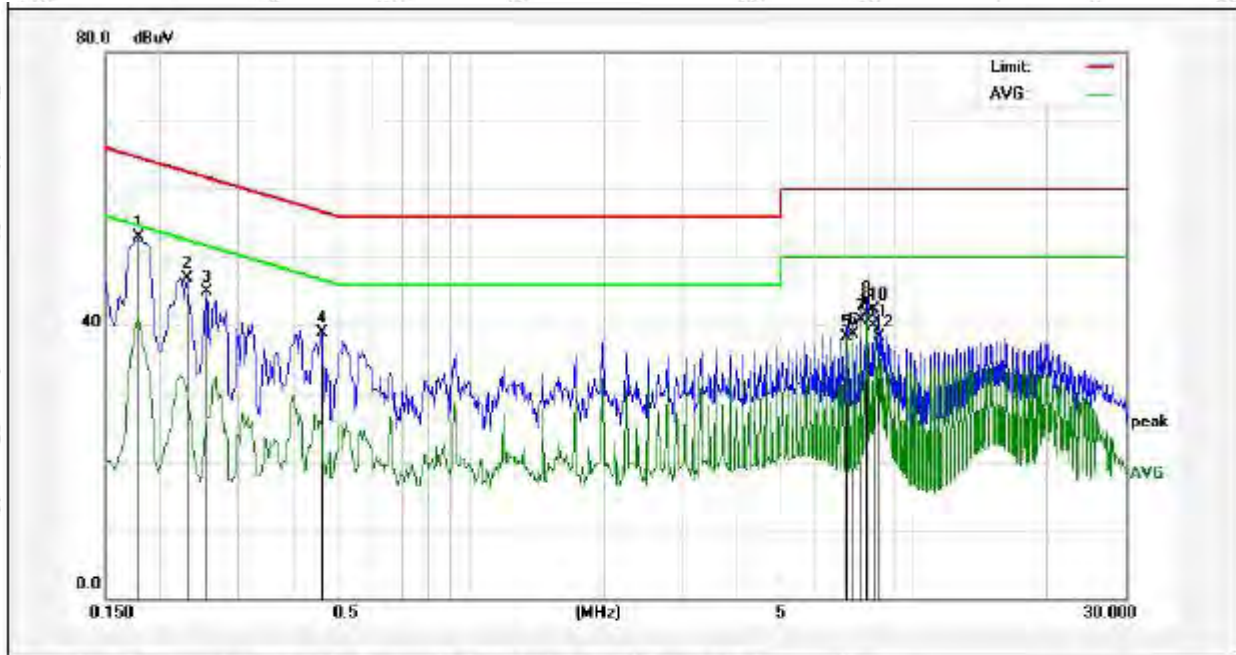
Test Site: 1# Shielded Room
 Operating Condition: TX mode
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1620	33.72	19.90	53.62	65.36	-11.74	QP	
2	0.4380	20.99	19.95	40.94	57.10	-16.16	QP	
3	0.4900	20.50	19.98	40.48	56.17	-15.69	QP	
4	0.9540	19.79	20.11	39.90	56.00	-16.10	QP	
5	1.7580	20.13	20.14	40.27	56.00	-15.73	QP	
6	1.7660	14.15	20.14	34.29	46.00	-11.71	AVG	
7	3.3900	13.21	20.17	33.38	46.00	-12.62	AVG	
8	3.6620	20.58	20.17	40.75	56.00	-15.25	QP	
9	7.1860	19.20	20.26	39.46	50.00	-10.54	AVG	
10	7.4740	20.28	20.27	40.55	50.00	-9.45	AVG	
11	7.7460	21.40	20.28	41.68	50.00	-8.32	AVG	
12	8.0020	19.54	20.29	39.83	50.00	-10.17	AVG	

Conducted Emission Test Data

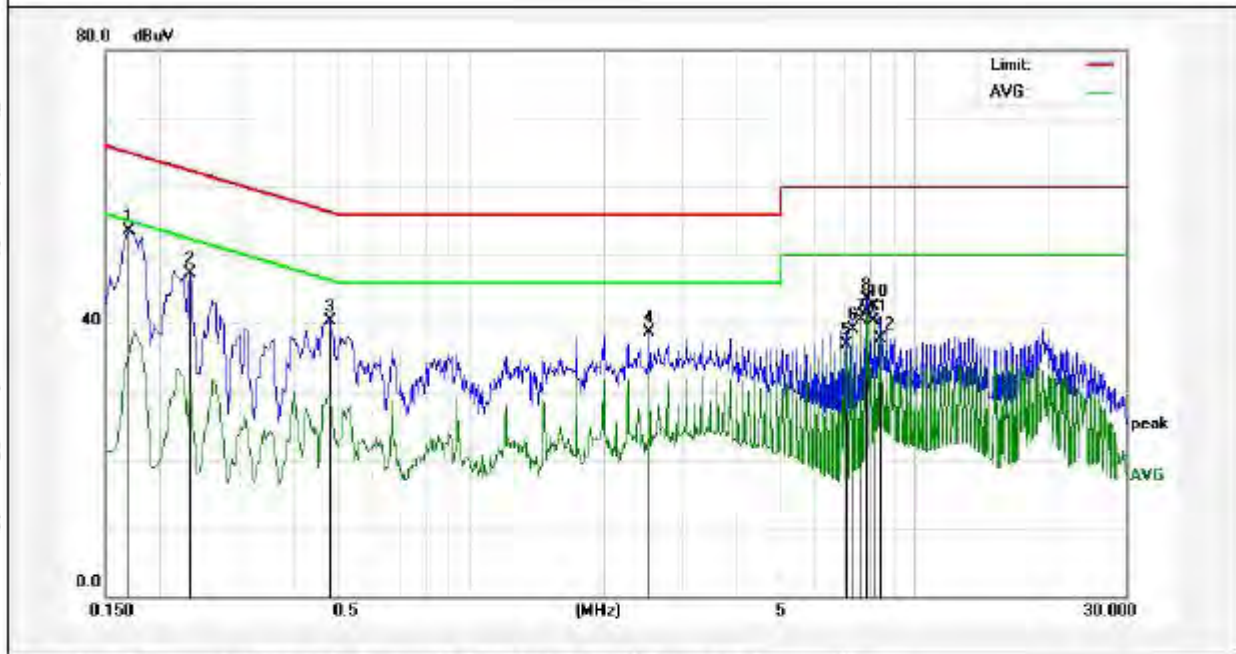
Test Site: 1# Shielded Room
 Operating Condition: TX mode
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1780	32.94	19.90	52.84	64.57	-11.73	QP	
2	0.2300	27.04	19.89	46.93	62.45	-15.52	QP	
3	0.2540	25.02	19.89	44.91	61.62	-16.71	QP	
4	0.4620	18.96	19.96	38.92	56.66	-17.74	QP	
5	7.0380	18.11	20.26	38.37	50.00	-11.63	AVG	
6	7.3020	18.50	20.27	38.77	50.00	-11.23	AVG	
7	7.5700	20.43	20.28	40.71	50.00	-9.29	AVG	
8	7.8340	23.07	20.28	43.35	60.00	-16.65	QP	
9	7.8340	21.50	20.28	41.78	50.00	-8.22	AVG	
10	8.1020	22.10	20.29	42.39	60.00	-17.61	QP	
11	8.1020	19.60	20.29	39.89	50.00	-10.11	AVG	
12	8.3660	17.91	20.30	38.21	50.00	-11.79	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: TX mode
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 22.2°C Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1700	33.58	19.90	53.48	64.96	-11.48	QP	
2	0.2340	27.35	19.89	47.24	62.30	-15.06	QP	
3	0.4820	20.28	19.97	40.25	56.30	-16.05	QP	
4	2.5340	18.48	20.15	38.63	56.00	-17.37	QP	
5	7.0540	16.73	20.26	36.99	50.00	-13.01	AVG	
6	7.3180	18.87	20.27	39.14	50.00	-10.86	AVG	
7	7.5860	20.14	20.28	40.42	50.00	-9.58	AVG	
8	7.8500	23.13	20.28	43.41	60.00	-16.59	QP	
9	7.8500	21.59	20.28	41.87	50.00	-8.13	AVG	
10	8.1180	22.29	20.29	42.58	60.00	-17.42	QP	
11	8.1180	19.97	20.29	40.26	50.00	-9.74	AVG	
12	8.3820	17.36	20.30	37.66	50.00	-12.34	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

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

Remark:

- (1)The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

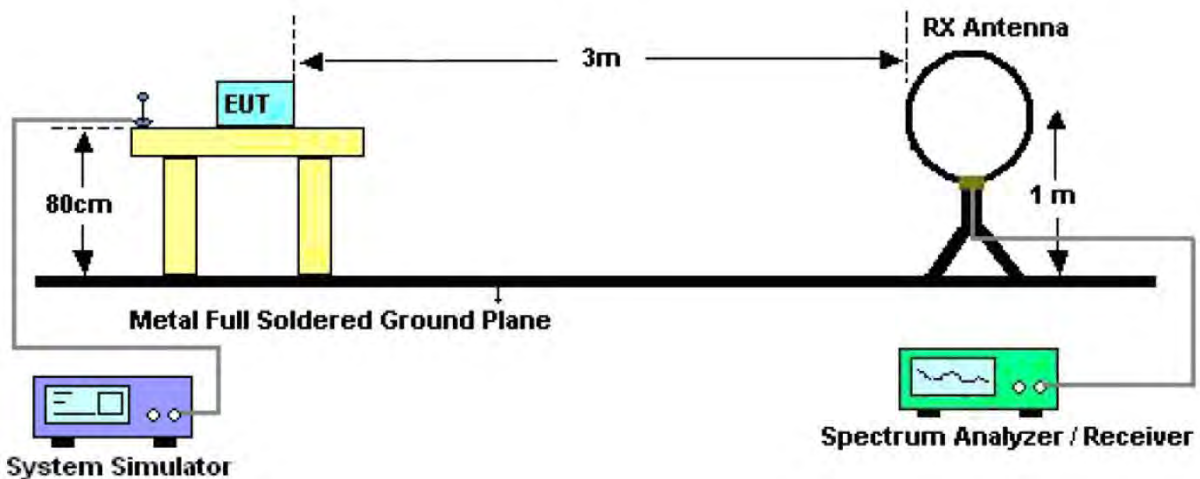


Figure 1. Below 30MHz

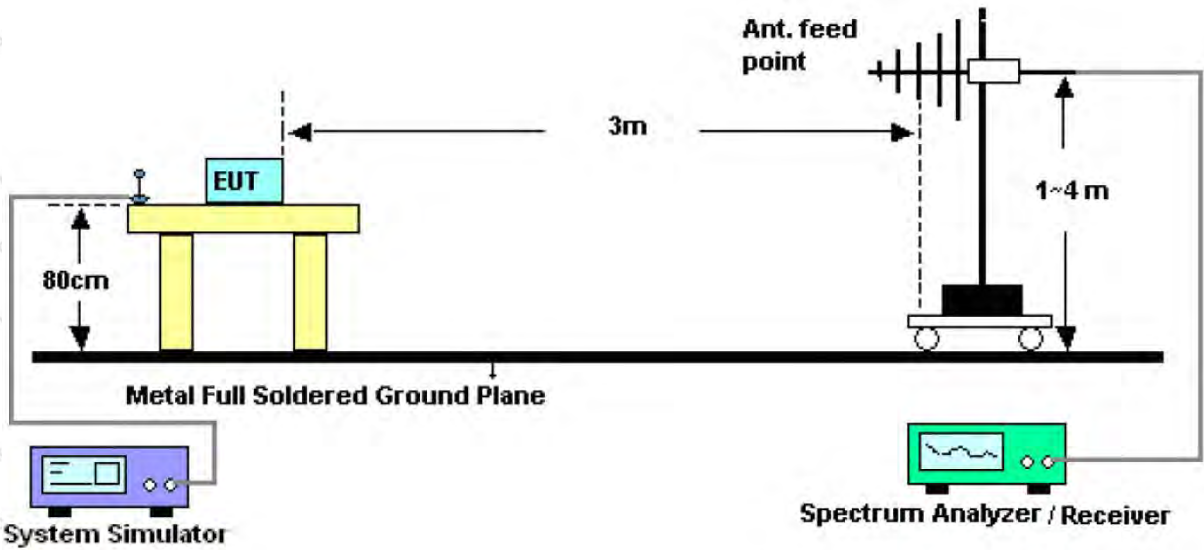


Figure 2. 30MHz to 1GHz

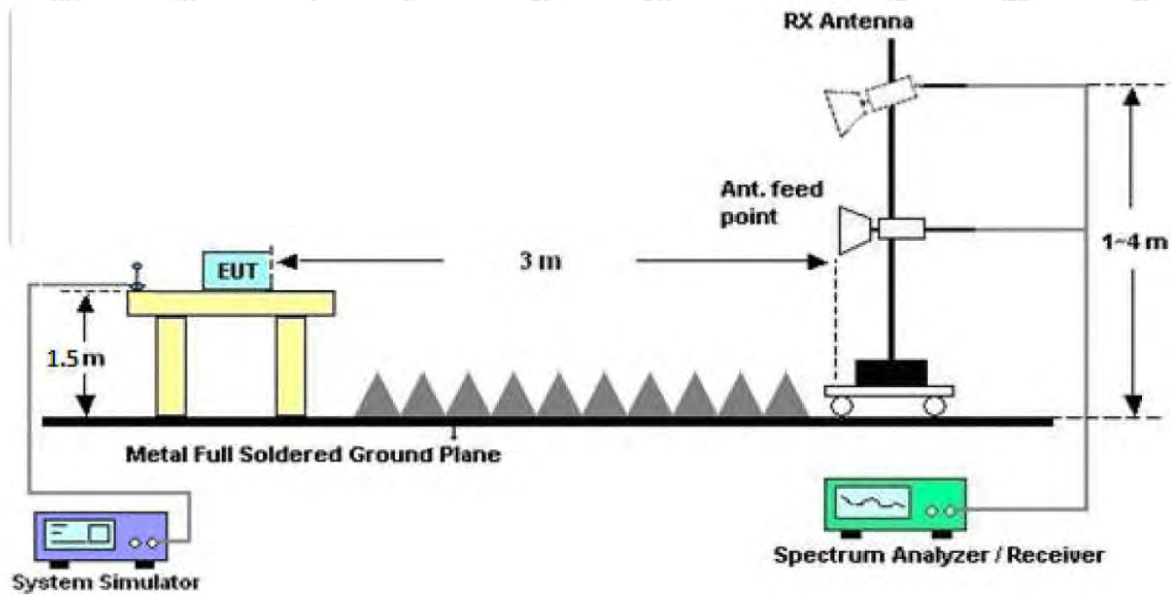


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

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 be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

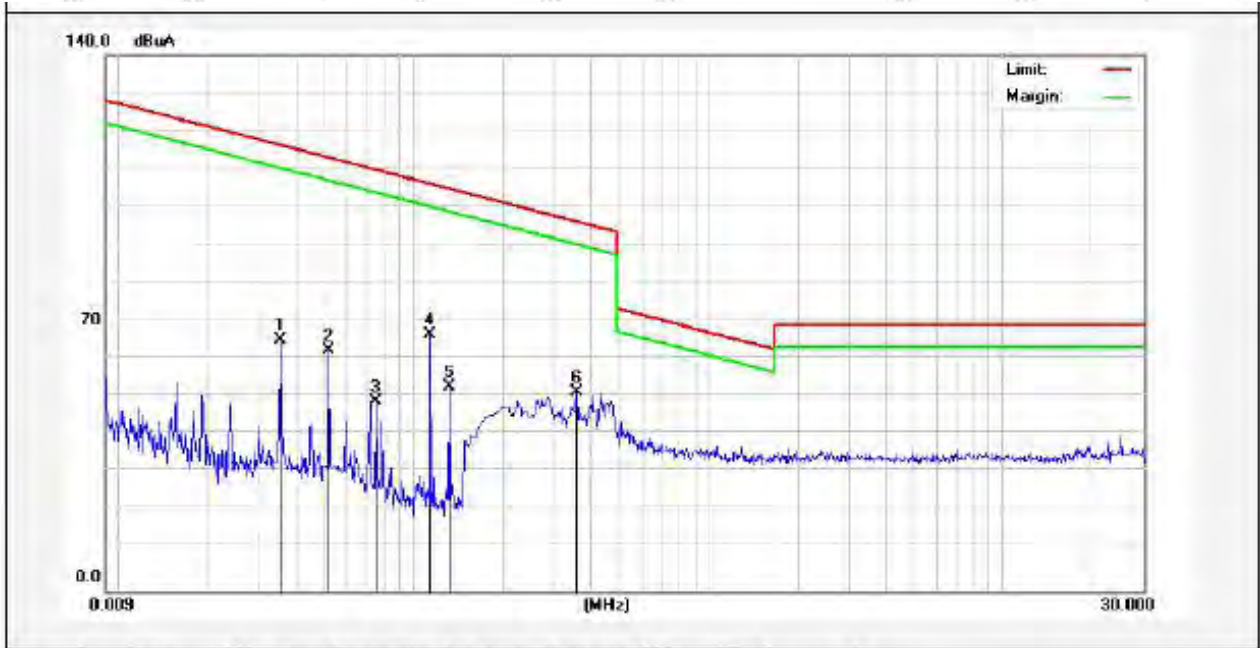
4.4. Test Data

PASS

Test Results

(Between 9KHz – 30MHz)

Job No.:	SZAWW180605008-01	Power Source:	AC 120V, 60Hz for adapter
Standard:	FCC PART15 C_3m	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test item:	Radiation Test	Distance:	3m
Test Mode:	Mode 1		



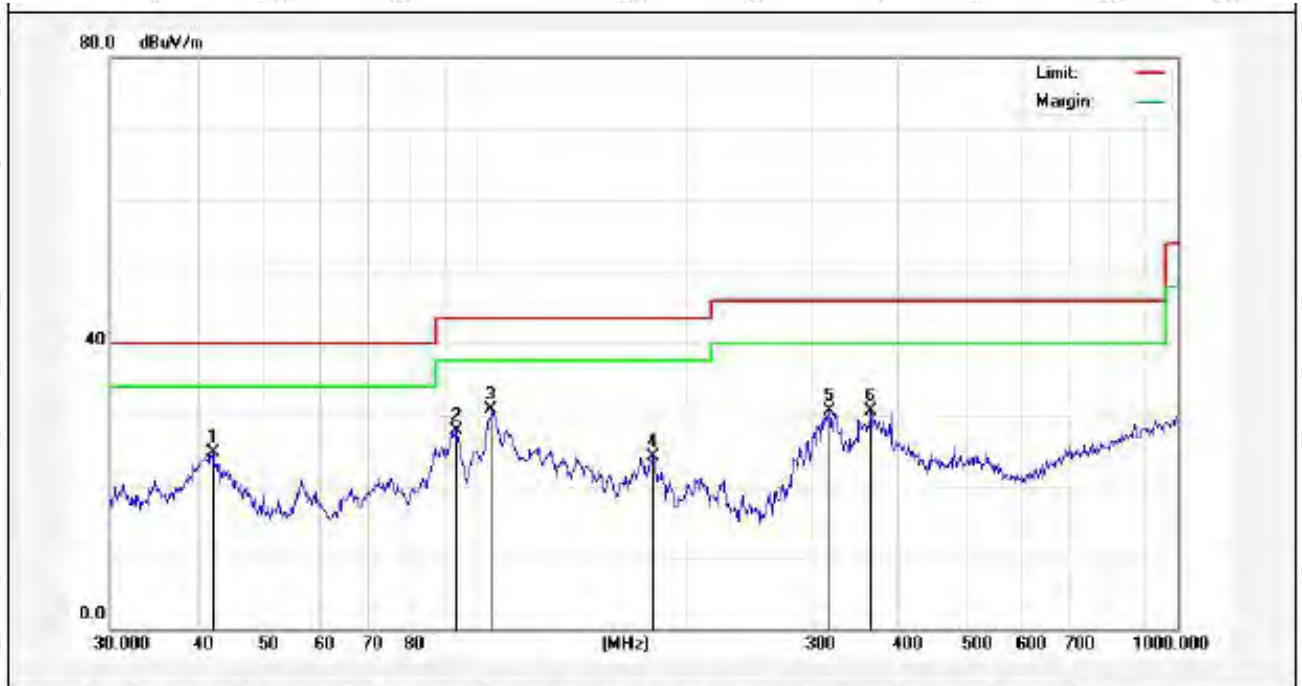
No.	Freq. (MHz)	Reading (dBuA)	Factor (dB)	Result (dBuA)	Limit dBuA	Over Limit (dB)	Detector	Remark
1	0.0354	24.13	41.47	65.60	116.50	-50.90	QP	
2	0.0517	23.90	38.84	62.74	113.22	-50.48	QP	
3	0.0748	14.16	35.53	49.69	110.03	-60.34	QP	
4	0.1145	33.60	33.43	67.03	106.36	-39.33	QP	
5	0.1322	20.57	32.72	53.29	105.11	-51.82	QP	
6	0.3578	14.56	37.28	51.84	96.51	-44.67	QP	

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0353	53.59	19.30	2.53	0	75.42	136.48	-61.06	Peak	126
0.0353	42.15	19.30	2.53	0	63.98	116.48	-52.50	AV	126
0.0489	50.86	19.30	2.53	0	72.69	133.06	-60.37	Peak	57
0.0489	39.50	19.30	2.53	0	61.33	113.06	-51.73	AV	57
0.0743	40.55	19.29	2.54	0	62.38	129.58	-67.20	Peak	310
0.0743	29.60	19.29	2.54	0	51.43	109.58	-58.15	AV	310
0.1138	52.85	19.29	2.54	0	74.68	125.89	-51.21	Peak	249
0.1138	44.92	19.29	2.54	0	66.75	105.89	-39.14	AV	249
0.1140	54.73	19.63	2.59	0	76.95	125.77	-48.82	Peak	55
0.1140	40.11	19.63	2.59	0	62.33	105.77	-43.44	AV	55
0.3584	41.23	19.63	2.59	0	63.45	116.13	-52.68	Peak	184
0.3584	28.66	19.63	2.59	0	50.88	96.13	-45.25	AV	184

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

(Between 30MHz -1000 MHz)

Job No.:	SZAWW180605008-01	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	Mode 1	Distance:	3m



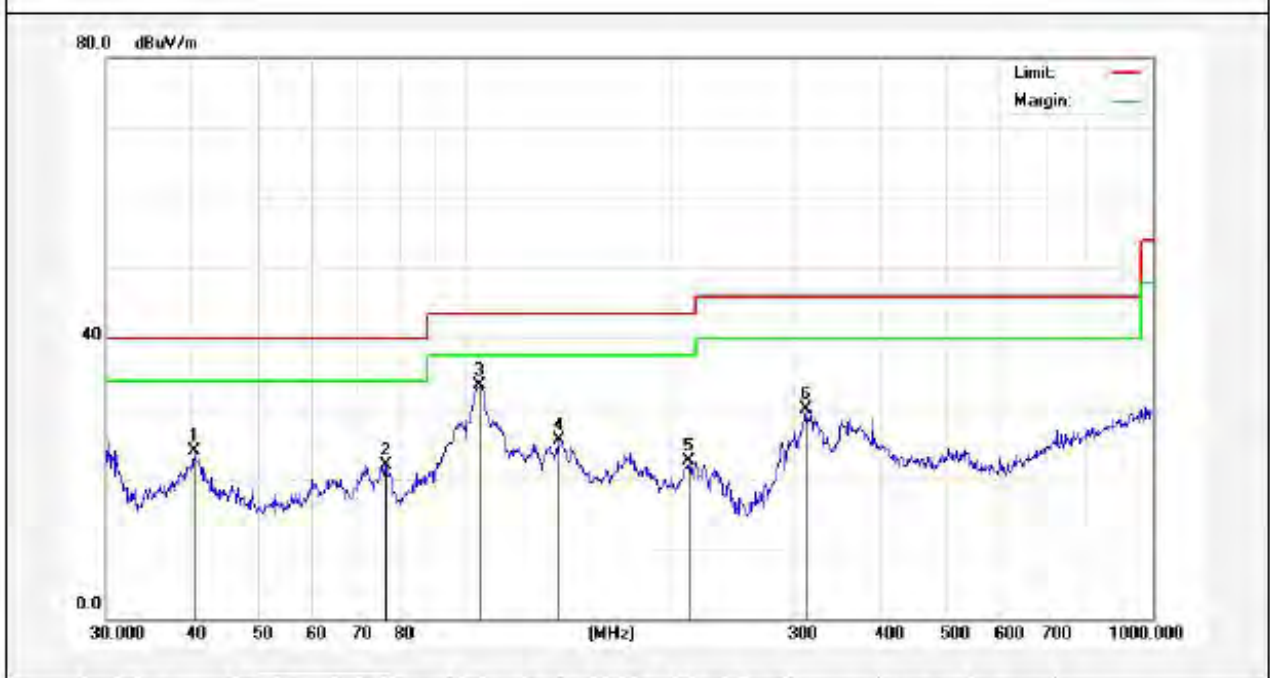
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	42.0066	39.44	-14.75	24.69	40.00	-15.31	QP	300	0	
2	93.4402	49.48	-21.86	27.62	43.50	-15.88	QP	300	67	
3	104.9033	51.40	-20.71	30.69	43.50	-12.81	QP	300	115	
4	178.7584	43.95	-19.81	24.14	43.50	-19.36	QP	300	245	
5	318.8170	45.82	-15.39	30.43	46.00	-15.57	QP	300	296	
6	365.5391	44.01	-13.56	30.45	46.00	-15.55	QP	300	360	

Job No.:	SZAWW180605008-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.5116	48.11	-13.46	34.65	40.00	-5.35	QP	300	0	
2	104.1701	48.62	-14.70	33.92	43.50	-9.58	QP	300	96	
3	140.8351	50.41	-17.46	32.95	43.50	-10.55	QP	300	154	
4	296.1836	43.16	-14.75	28.41	46.00	-17.59	QP	300	215	
5	390.7226	45.07	-12.05	33.02	46.00	-12.98	QP	300	296	
6	501.1790	43.28	-10.94	32.34	46.00	-13.66	QP	300	360	

Job No.:	SZAWW180605008-01	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.2757	38.32	-14.43	23.89	40.00	-16.11	QP	300	0	
2	76.5121	43.87	-21.95	21.92	40.00	-18.08	QP	300	65	
3	104.9033	53.94	-20.71	33.23	43.50	-10.27	QP	300	114	
4	136.4598	47.05	-21.57	25.48	43.50	-18.02	QP	300	196	
5	211.5265	41.61	-19.12	22.49	43.50	-21.01	QP	300	254	
6	312.1794	46.18	-16.21	29.97	46.00	-16.03	QP	300	360	

Job No.: SZAWW180605008-01 **Polarization:** Vertical
Standard: FCC PART15 C_3m **Power Source:** AC 240V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 24.3(C)/55%RH
Test Mode: Mode 1 **Distance:** 3m



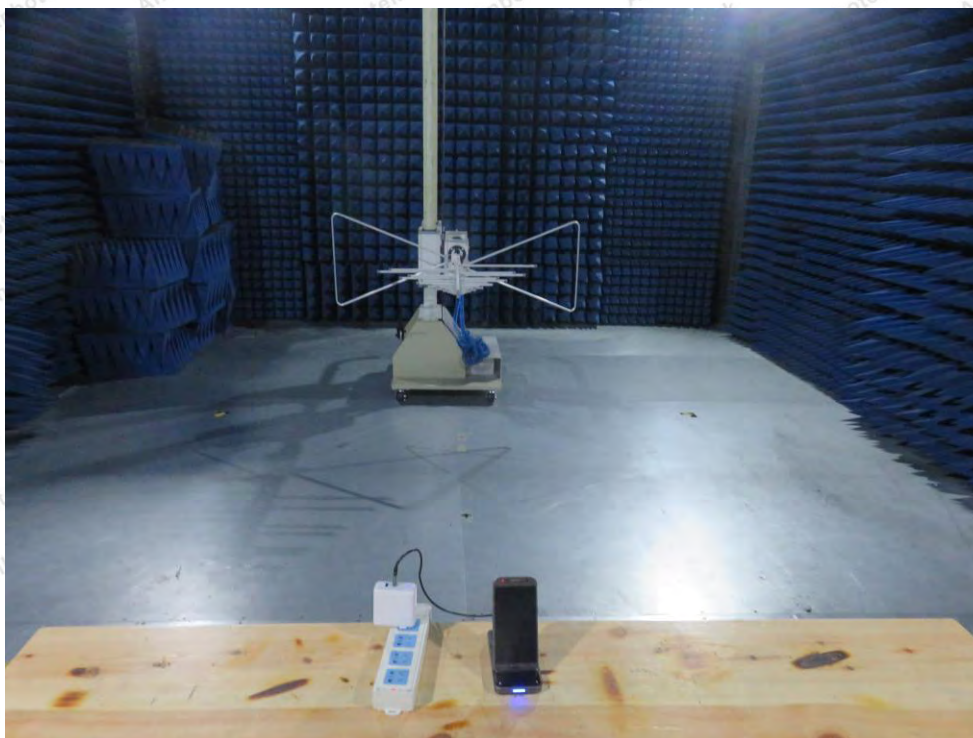
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0473	49.77	-17.54	32.23	40.00	-7.77	QP	300	29	
2	40.4172	47.09	-13.44	33.65	40.00	-6.35	QP	300	54	
3	104.5361	46.60	-14.69	31.91	43.50	-11.59	QP	300	127	
4	133.1511	49.26	-17.02	32.24	43.50	-11.26	QP	300	36	
5	232.5318	41.21	-13.80	27.41	46.00	-18.59	QP	300	248	
6	396.2415	44.84	-11.94	32.90	46.00	-13.10	QP	300	55	

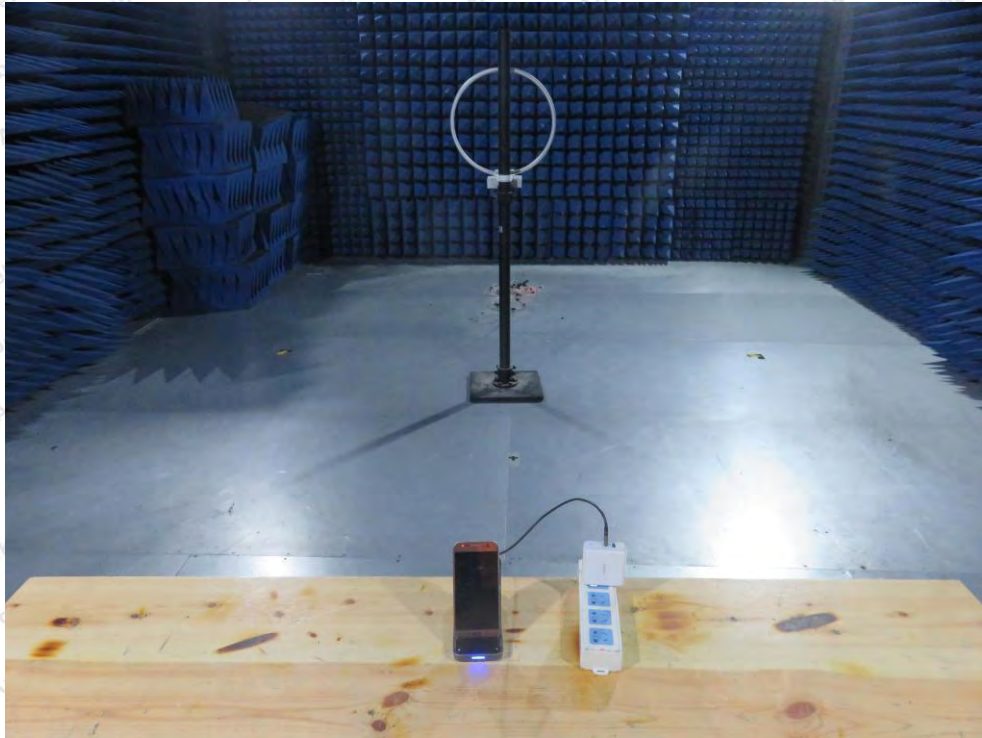
APPENDIX I-- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH

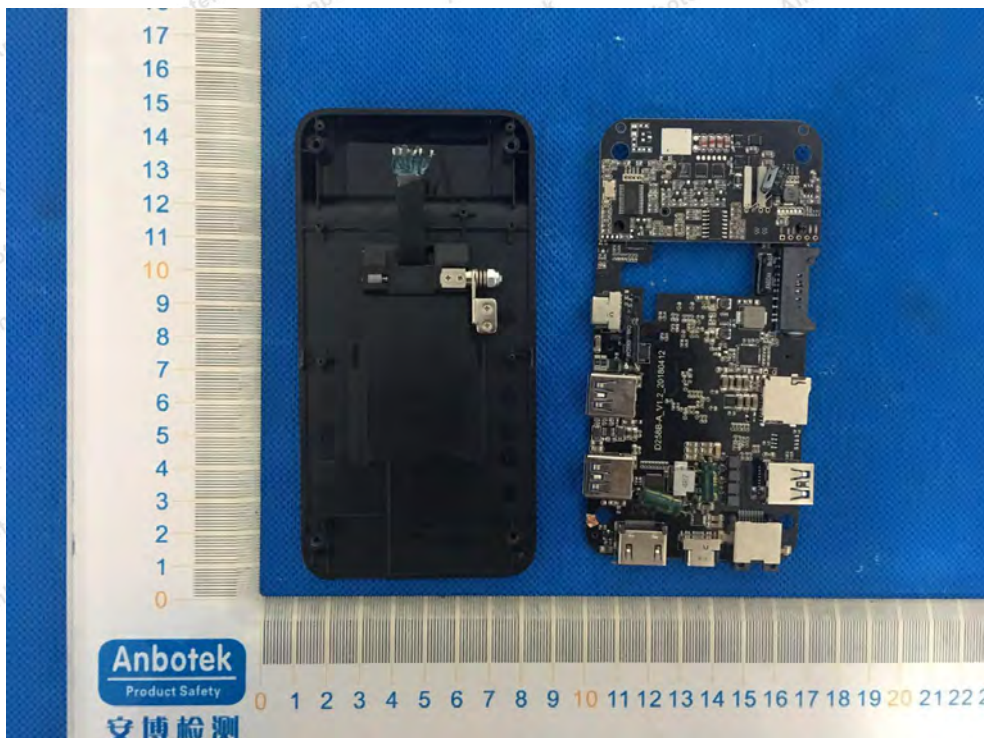








APPENDIX III -- INTERNAL PHOTOGRAPH









----- End of Report -----