

FCC TEST REPORT

Client Name : Anker Innovations Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road,
Mongkok, Kowloon, Hong Kong
Product Name : SoundCore
Date : Apr. 18, 2022

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : SoundCore
Model No. : A3102
Trade Mark : ANKER
Rating(s) : Input: DC 5V, 1A (with DC 3.7V, 4400mAh Battery inside)

Test Standard(s) : FCC Part15 Subpart C, Section 15.247
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 receipt Mar. 23, 2022
Date of Test Mar. 23~30, 2022

Prepared by

Nian Xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

1.2. Description of Device (EUT)

Product Name	:	SoundCore	
Model No.	:	A3102	
Trade Mark	:	ANKER	
Test Power Supply	:	AC 120V, 60Hz for adapter / DC 3.7V Battery inside	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	2402~2480MHz
		Transfer Rate:	1/2/3 Mbits/s
		Number of Channel:	79 Channels
		Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
		Antenna Type:	FPC Antenna
		Antenna Gain(Peak):	3.62 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	:	M/N: A2023 Input: AC 100-240V, 0.7A, 50-60Hz USB1 Output: DC 5V, 2.4A USB2 Output: DC 5V, 2.4A
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1.4. Description of Test Modes

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

TEST MODE:

Mode 1	GFSK	CH00	TX+ Charging Mode/TX Only
Mode 2		CH39	
Mode 3		CH78	
Mode 4	π/4-DQPSK	CH00	
Mode 5		CH39	
Mode 6		CH78	
Mode 7	8-DPSK	CH00	
Mode 8		CH39	
Mode 9		CH78	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2)The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

1.5. List of channels

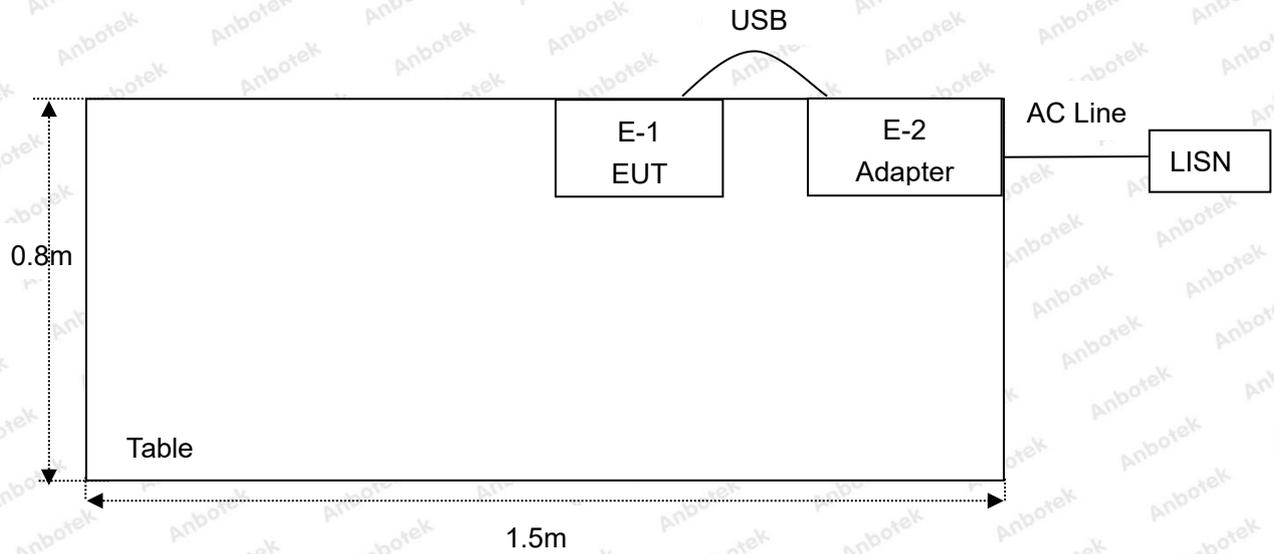
Channel	Freq. (MHz)								
00	2402	17	2419	34	2436	51	2453	68	2470
01	2403	18	2420	35	2437	52	2454	69	2471
02	2404	19	2421	36	2438	53	2455	70	2472
03	2405	20	2422	37	2439	54	2456	71	2473
04	2406	21	2423	38	2440	55	2457	72	2474
05	2407	22	2424	39	2441	56	2458	73	2475
05	2408	23	2425	40	2442	57	2459	74	2476
07	2409	24	2426	41	2443	58	2460	75	2477
08	2410	25	2427	42	2444	59	2461	76	2478
09	2411	26	2428	43	2445	60	2462	77	2479
10	2412	27	2429	44	2446	61	2463	78	2480
11	2413	28	2430	45	2447	62	2464		
12	2414	29	2431	46	2448	63	2465		
13	2415	30	2432	47	2449	64	2466		
14	2416	31	2433	48	2450	65	2467		
15	2417	32	2434	49	2451	66	2468		
16	2418	33	2435	50	2452	67	2469		

Note:

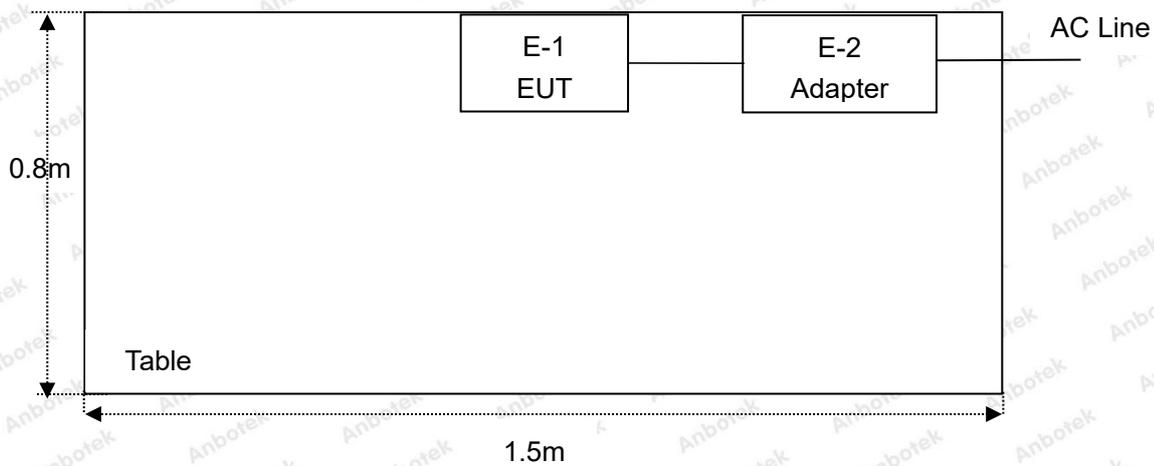
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT built-in battery-powered, fully-charged battery use of the test battery.

1.6. Description Of Test Setup

CE



RE



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul 05, 2021	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Oct. 22, 2021	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 22, 2021	2 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 22, 2021	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	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	Oct. 22, 2021	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 22, 2021	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 22, 2021	1 Year
16.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 22, 2021	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 22, 2021	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2021	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 22, 2021	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. 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.

ISED-Registration No.: 8058A

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.

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
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

Remark: This is a Class II application of the device, the difference between the original device and current one described as following:

- (1) The Amplifier IC change from ANT8821 to ANT8825S
- (2) Speaker cable pin changed from 2pin to 3pin
- (3) Change the hardware version to VB.0

The changes are not related with the other RF parameters, only spurious emission were retested, the conducted power quotes the data of the original report 18220WC00104501.

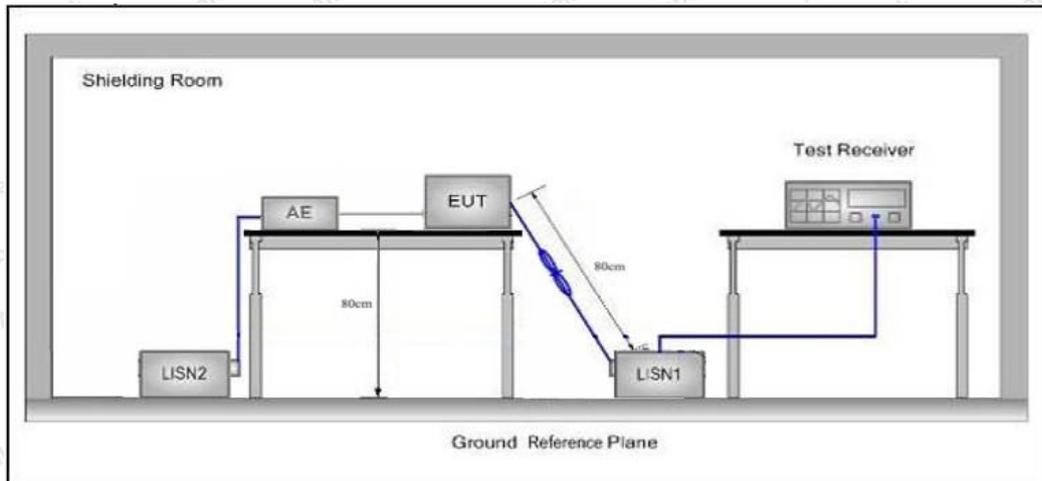
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	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.

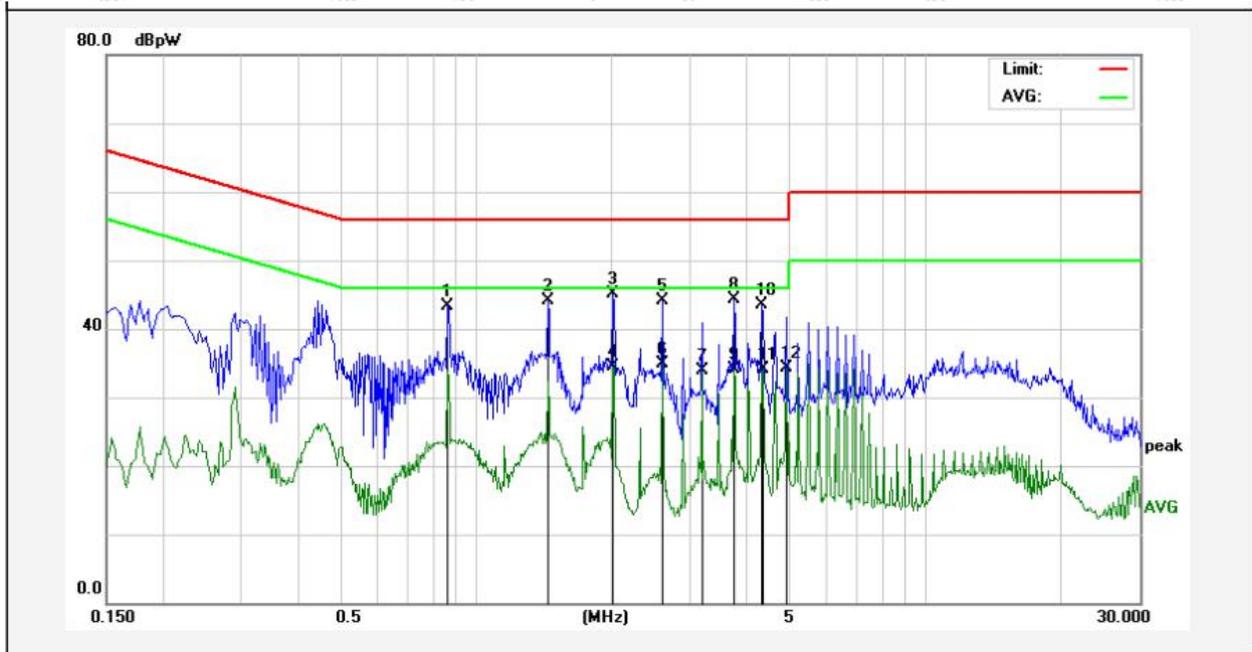
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan the GFSK, $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation Low channel(TX+Charging Mode) which is the worst case, only the worst case is recorded in the report. Please to see the following pages.

Conducted Emission Test Data

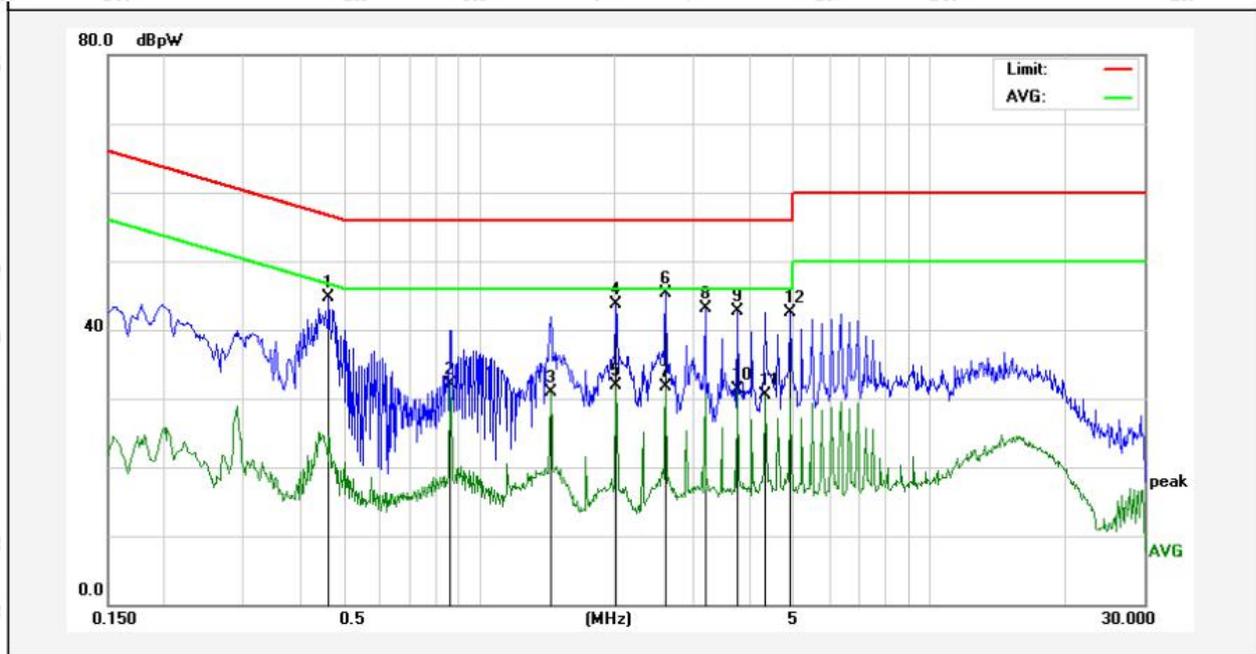
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 22.8°C Hum.: 51%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBpW)	Limit (dBpW)	Over Limit (dB)	Detector	Remark
1	0.8659	43.23	0.15	43.38	56.00	-12.62	QP	
2	1.4454	43.98	0.14	44.12	56.00	-11.88	QP	
3	2.0219	44.90	0.12	45.02	56.00	-10.98	QP	
4	2.0219	34.35	0.12	34.47	46.00	-11.53	AVG	
5	2.6018	43.92	0.12	44.04	56.00	-11.96	QP	
6	2.6018	34.78	0.12	34.90	46.00	-11.10	AVG	
7	3.1779	33.77	0.12	33.89	46.00	-12.11	AVG	
8	3.7580	44.11	0.12	44.23	56.00	-11.77	QP	
9	3.7580	33.95	0.12	34.07	46.00	-11.93	AVG	
10	4.3338	43.46	0.11	43.57	56.00	-12.43	QP	
11	4.3379	34.09	0.11	34.20	46.00	-11.80	AVG	
12	4.9138	34.27	0.11	34.38	46.00	-11.62	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.: 22.8°C Hum.: 51%



No.	Freq. (MHz)	Reading (dBUV)	Factor (dB)	Result (dBpW)	Limit (dBpW)	Over Limit (dB)	Detector	Remark
1	0.4660	44.51	0.14	44.65	56.58	-11.93	QP	
2	0.8659	31.97	0.15	32.12	46.00	-13.88	AVG	
3	1.4415	30.78	0.14	30.92	46.00	-15.08	AVG	
4	2.0219	43.52	0.12	43.64	56.00	-12.36	QP	
5	2.0219	31.80	0.12	31.92	46.00	-14.08	AVG	
6	2.5979	45.14	0.12	45.26	56.00	-10.74	QP	
7	2.5979	31.66	0.12	31.78	46.00	-14.22	AVG	
8	3.1779	42.91	0.12	43.03	56.00	-12.97	QP	
9	3.7540	42.68	0.12	42.80	56.00	-13.20	QP	
10	3.7540	31.10	0.12	31.22	46.00	-14.78	AVG	
11	4.3299	30.31	0.11	30.42	46.00	-15.58	AVG	
12	4.9099	42.47	0.11	42.58	56.00	-13.42	QP	

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

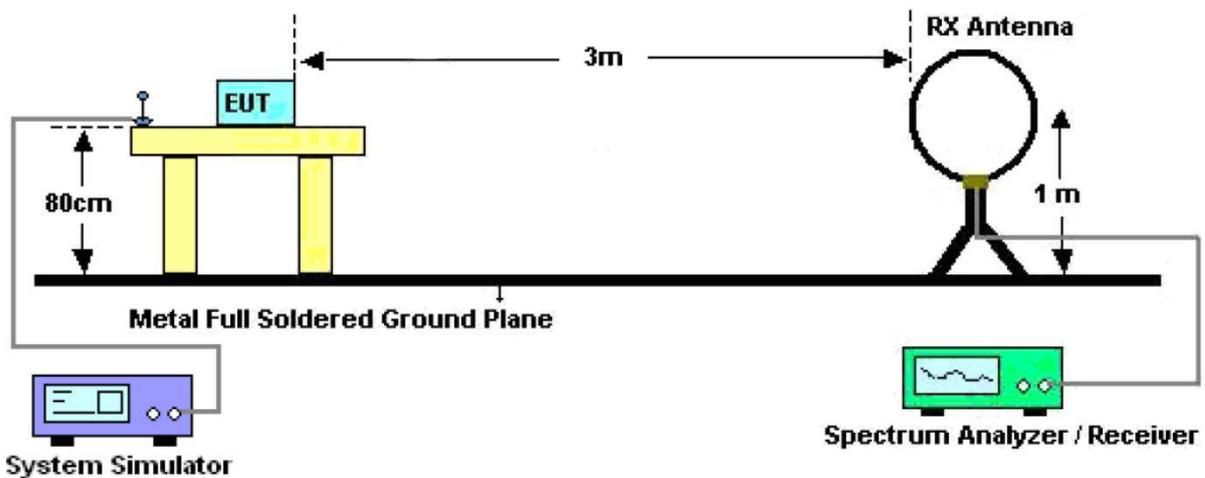


Figure 1. Below 30MHz

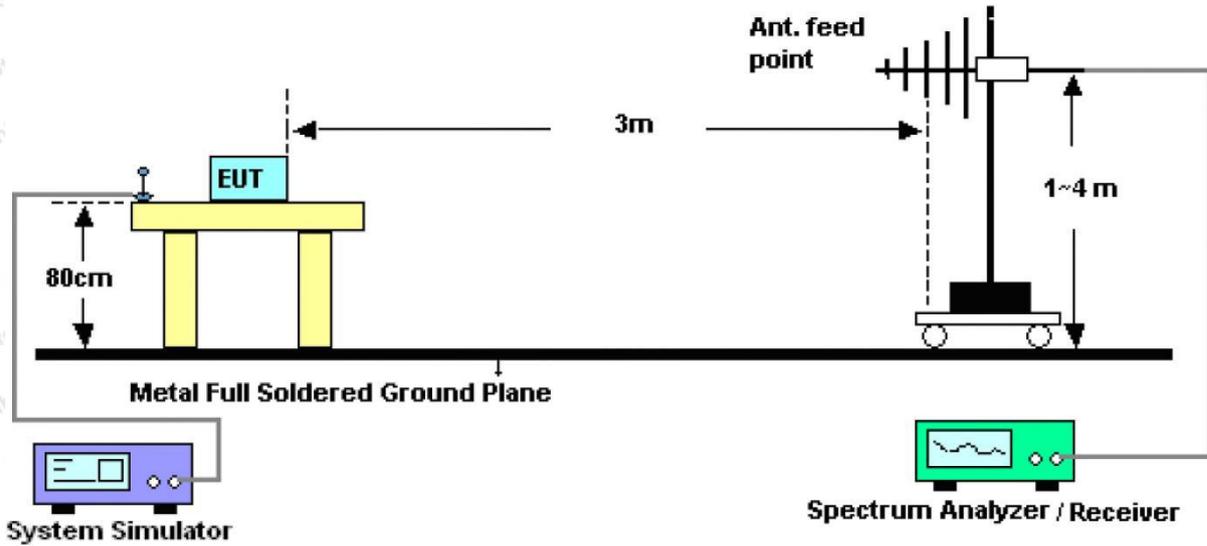


Figure 2. 30MHz to 1GHz

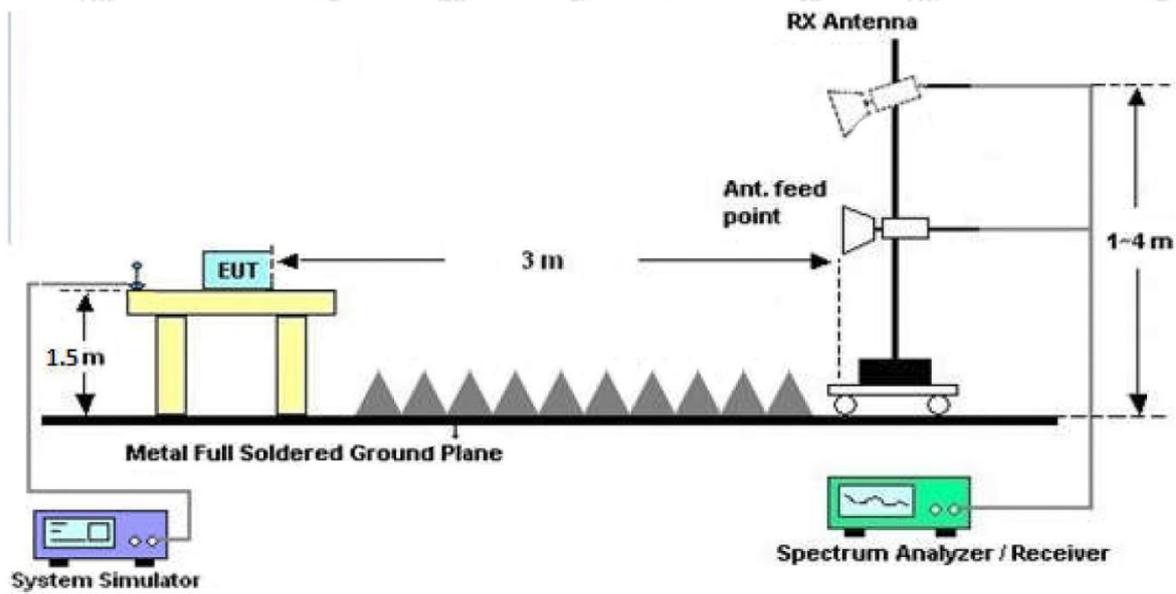


Figure 3. Above 1 GHz

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 the radiated emission test above 1GHz:

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline
400-003-0500
www.anbotek.com

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

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.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

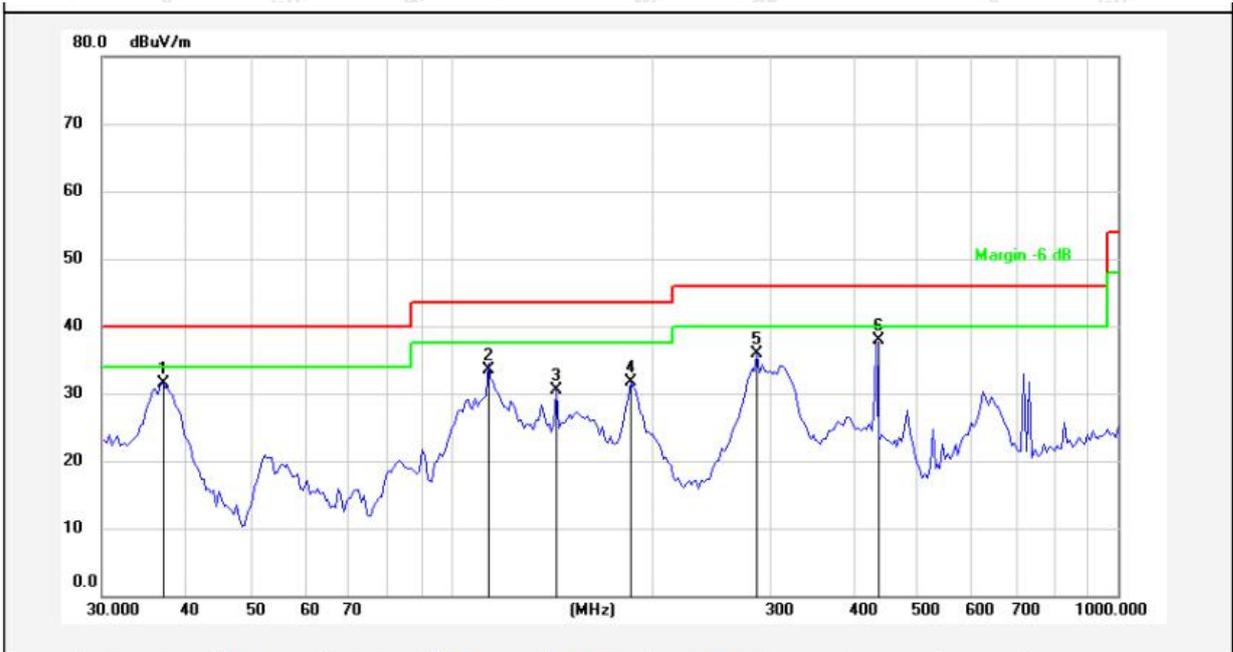
During the test, pre-scan the GFSK, $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation Middle channel(TX+Charging Mode) which is the worst case, only the worst case is recorded in the report

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Test Results (30~1000MHz)

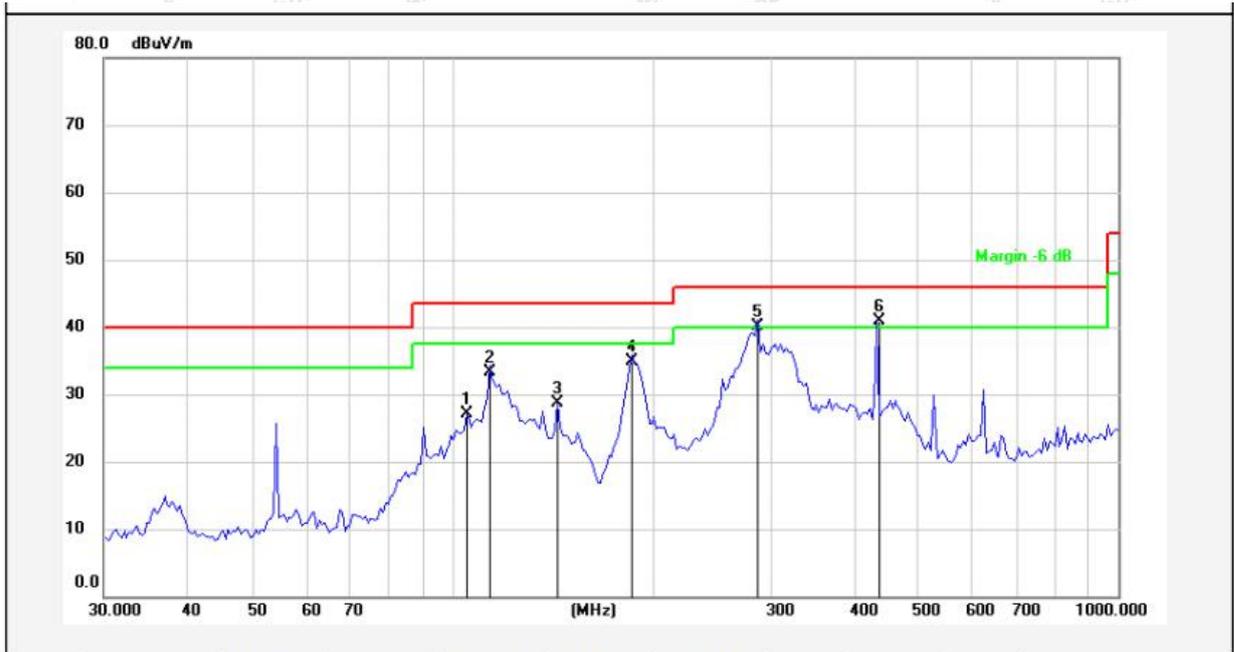
Test Mode: Mode 2
 Power Source: AC 120V, 60Hz for adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 22.7°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	36.7018	49.11	-17.64	31.47	40.00	-8.53	QP			
2	113.7143	52.17	-18.74	33.43	43.50	-10.07	QP			
3	144.0819	51.85	-21.26	30.59	43.50	-12.91	QP			
4	185.7882	50.73	-19.02	31.71	43.50	-11.79	QP			
5	287.9904	51.01	-15.14	35.87	46.00	-10.13	QP			
6	434.8268	49.61	-11.77	37.84	46.00	-8.16	QP			

Test Results (30~1000MHz)

Test Mode: Mode 2
 Power Source: AC 120V, 60Hz for adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 22.7°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	105.0873	44.69	-17.62	27.07	43.50	-16.43	QP			
2	113.7143	52.10	-18.74	33.36	43.50	-10.14	QP			
3	144.0819	50.03	-21.26	28.77	43.50	-14.73	QP			
4	185.7882	53.87	-19.02	34.85	43.50	-8.65	QP			
5	287.9904	55.22	-15.14	40.08	46.00	-5.92	QP			
6	434.8268	52.66	-11.77	40.89	46.00	-5.11	QP			

Test Results (1GHz-25GHz)

Test Mode: CH00				Test channel: Lowest		
Peak Value						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.84	15.27	44.11	74.00	-29.89	Vertical
7206.00	29.71	18.09	47.80	74.00	-26.20	Vertical
9608.00	31.11	23.76	54.87	74.00	-19.13	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	29.07	15.27	44.34	74.00	-29.66	Horizontal
7206.00	30.50	18.09	48.59	74.00	-25.41	Horizontal
9608.00	28.95	23.76	52.71	74.00	-21.29	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal
Average value						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.22	15.27	33.49	54.00	-20.51	Vertical
7206.00	18.74	18.09	36.83	54.00	-17.17	Vertical
9608.00	20.13	23.76	43.89	54.00	-10.11	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	17.42	15.27	32.69	54.00	-21.31	Horizontal
7206.00	19.56	18.09	37.65	54.00	-16.35	Horizontal
9608.00	18.26	23.76	42.02	54.00	-11.98	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal

Test Results (1GHz-25GHz)

Test Mode: CH39				Test channel: Middle		
Peak Value						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.86	15.42	44.28	74.00	-29.72	Vertical
7323.00	29.56	18.02	47.58	74.00	-26.42	Vertical
9764.00	30.12	23.80	53.92	74.00	-20.08	Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	28.77	15.42	44.19	74.00	-29.81	Horizontal
7323.00	30.49	18.02	48.51	74.00	-25.49	Horizontal
9764.00	28.65	23.80	52.45	74.00	-21.55	Horizontal
12205.00	*			74.00		Horizontal
14646.00	*			74.00		Horizontal
Average value						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.95	15.42	33.37	54.00	-20.63	Vertical
7323.00	18.84	18.02	36.86	54.00	-17.14	Vertical
9764.00	19.99	23.80	43.79	54.00	-10.21	Vertical
12205.00	*			54.00		Vertical
14646.00	*			54.00		Vertical
4882.00	17.33	15.42	32.75	54.00	-21.25	Horizontal
7323.00	19.12	18.02	37.14	54.00	-16.86	Horizontal
9764.00	18.77	23.80	42.57	54.00	-11.43	Horizontal
12205.00	*			54.00		Horizontal
14646.00	*			54.00		Horizontal

Test Results (1GHz-25GHz)

Test Mode: CH78				Test channel: Highest		
Peak Value						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.13	15.58	44.71	74.00	-29.29	Vertical
7440.00	29.57	17.93	47.50	74.00	-26.50	Vertical
9920.00	30.67	23.83	54.50	74.00	-19.50	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	28.84	15.58	44.42	74.00	-29.58	Horizontal
7440.00	30.52	17.93	48.45	74.00	-25.55	Horizontal
9920.00	29.33	23.83	53.16	74.00	-20.84	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal
Average value						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.07	15.58	34.65	54.00	-19.35	Vertical
7440.00	19.85	17.93	37.78	54.00	-16.22	Vertical
9920.00	20.54	23.83	44.37	54.00	-9.63	Vertical
12400.00				54.00		Vertical
14880.00				54.00		Vertical
4960.00	18.77	15.58	34.35	54.00	-19.65	Horizontal
7440.00	20.49	17.93	38.42	54.00	-15.58	Horizontal
9920.00	18.67	23.83	42.50	54.00	-11.50	Horizontal
12400.00	*			54.00		Horizontal
14880.00	*			54.00		Horizontal

Remark:

1. During the test, pre-scan the GFSK, $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
2. Result=Reading + Factor
3. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	<p>1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna</p>

5.2. Antenna Connected Construction

The antenna is FPC Antenna which permanently attached, and the best case gain of the antenna is 3.62 dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

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