

FCC Test Report

Applicant : Shenzhen Feelstorm Technology Co.,Ltd.

Address : Floor 5th, Building C, Huawan Industrial Park,
Gushu, Xixiang Street, Bao'an District,
Shenzhen, China

Product Name : Video Baby Monitor

Report Date : May 18, 2023



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Shenzhen Feelstorm Technology Co.,Ltd.
Manufacturer : Shenzhen Feelstorm Technology Co.,Ltd.
Product Name : Video Baby Monitor
Model No. : BM927
Trade Mark : N/A
Rating(s) : Input: 5V $\overline{=}$ 1.2A(with DC 3.8V, 3050mAh battery inside)

Test Standard(s) : FCC Part15 Subpart C, Section 15.247

Test Method(s) : ANSI C63.10: 2020

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

Apr. 07, 2023

Date of Test

Apr. 07~25, 2023

Prepared by

Tu Tu Hong

(TuTu Hong)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	May 18, 2023



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Feelstorm Technology Co.,Ltd.
Address	:	Floor 5th, Building C, Huawan Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen,China
Manufacturer	:	Shenzhen Feelstorm Technology Co.,Ltd.
Address	:	Floor 5th, Building C, Huawan Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen,China
Factory	:	Shenzhen Feelstorm Technology Co.,Ltd.
Address	:	Floor 5th, Building C, Huawan Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen,China

1.2. Description of Device (EUT)

Product Name	:	Video Baby Monitor
Model No.	:	BM927
Trade Mark	:	N/A
Test Power Supply	:	AC 120V/60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: ZD5C050120USW Input: 100-240V~50/60Hz 0.2A Output: 5.0V= 1200mA

RF Specification

Operation Mode	:	<input type="checkbox"/> DSSS <input checked="" type="checkbox"/> FHSS
Operation Frequency	:	2408~2468MHz
Number of Channel	:	16 Channels
Modulation Type	:	GFSK
Antenna Type	:	Monopole Antenna
Antenna Gain(Peak)	:	2.27dBi (Provided by customer)

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

Description	Rating(s)
--	--

1.4. Description of Test Configuration

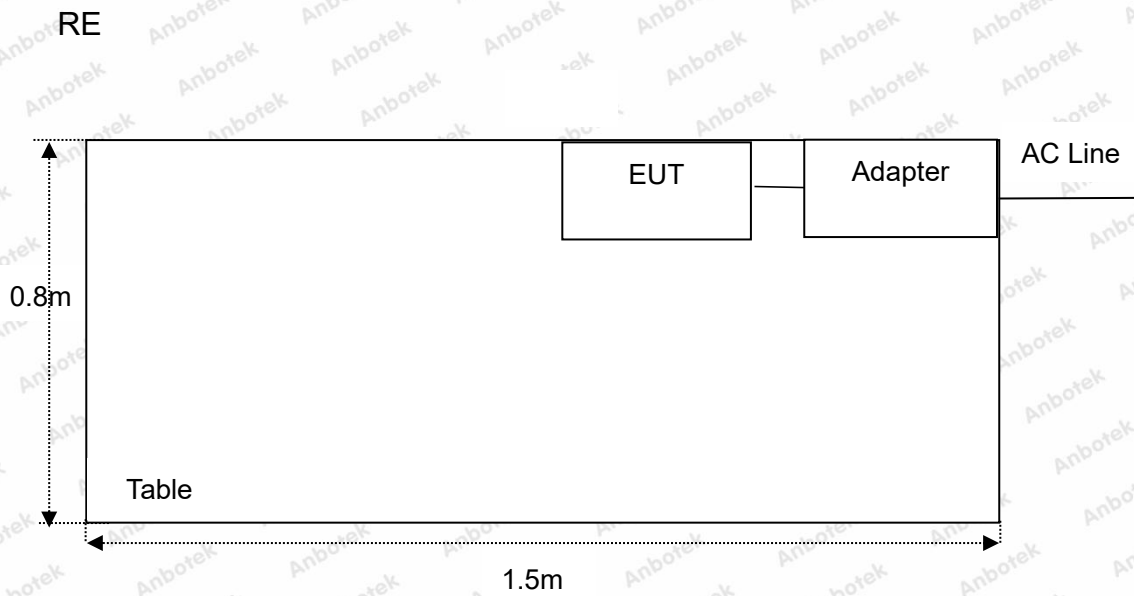
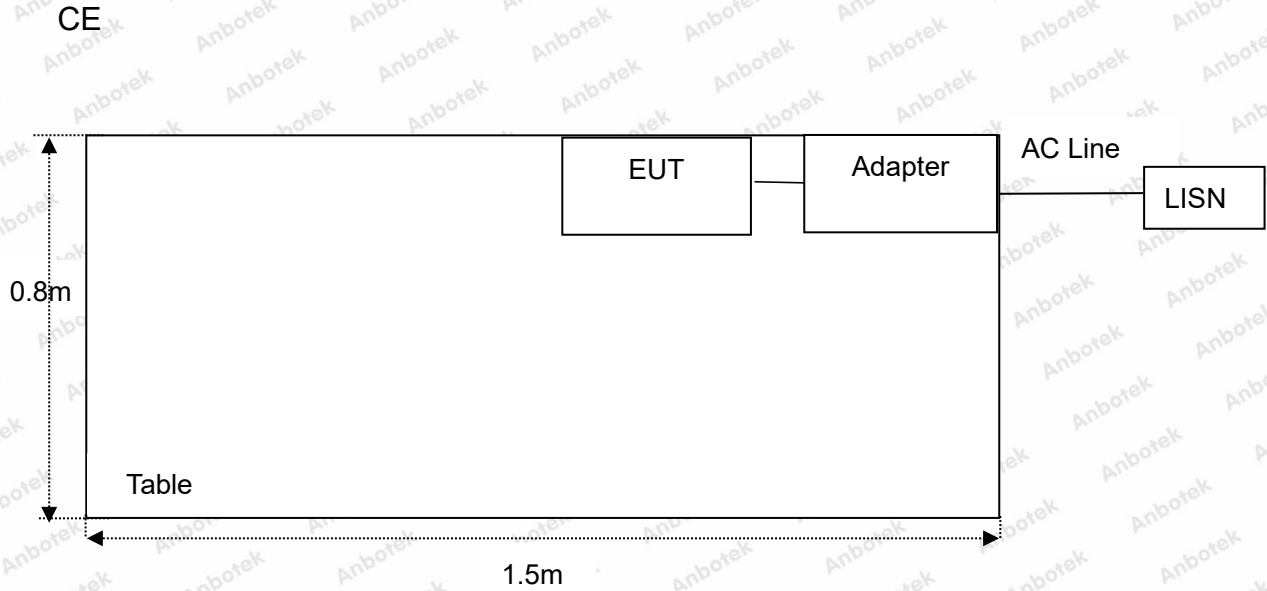
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2408	4	2424	8	2440	12	2456
1	2412	5	2428	9	2444	13	2460
2	2416	6	2432	10	2448	14	2464
3	2420	7	2436	11	2452	15	2468

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with channel 00, 07 and 15.



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	Oct. 23, 2022	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2022	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 13, 2022	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 23, 2022	1 Year
5.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2022	1 Year
6.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
7.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 13, 2022	1 Year
8.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 23, 2022	1 Year
10.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 23, 2022	1 Year
11.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 23, 2022	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Oct. 23, 2022	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
15.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year
16.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 13, 2022	1 Year
17.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2022	1 Year
18.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 19, 2022	1 Year
19.	Power Meter	Agilent	N1914A	MY50001102	Oct. 26, 2022	1 Year



1.7. Measurement Uncertainty

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

1.8. 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
15.247(b)(1)	Conducted Peak Output Power	PASS
15.247(a)(1)	20dB Occupied Bandwidth	PASS
15.247(a)(1)	Carrier Frequencies Separation	PASS
15.247(a)(1)(iii)	Number of Hopping Channel	PASS
15.247(a)(1)(iii)	Dwell Time	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		



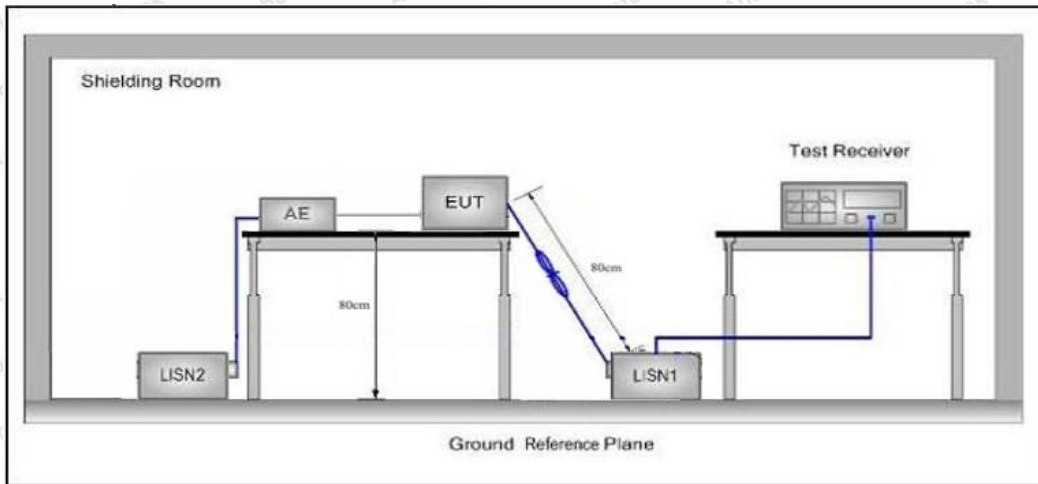
3. Conducted Emission Test

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: 2020 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

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report.

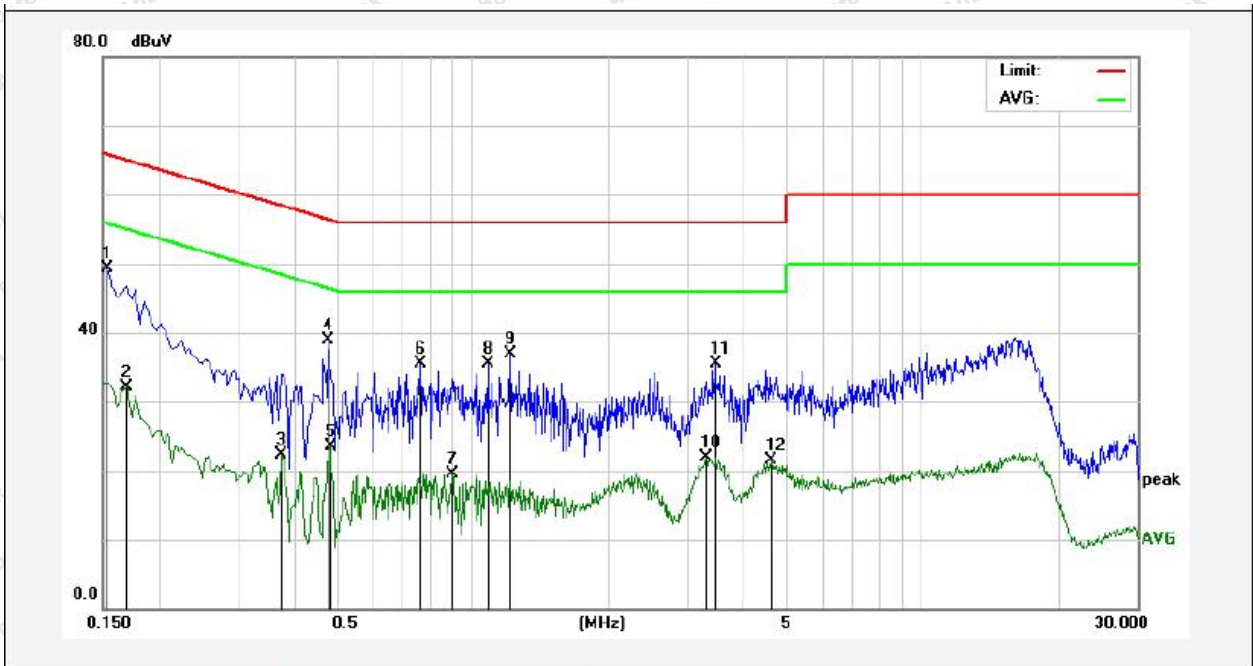
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: High CH (2468MHz)
 Test Specification: AC 120V/60Hz for adapter
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 22.8°C/51%RH

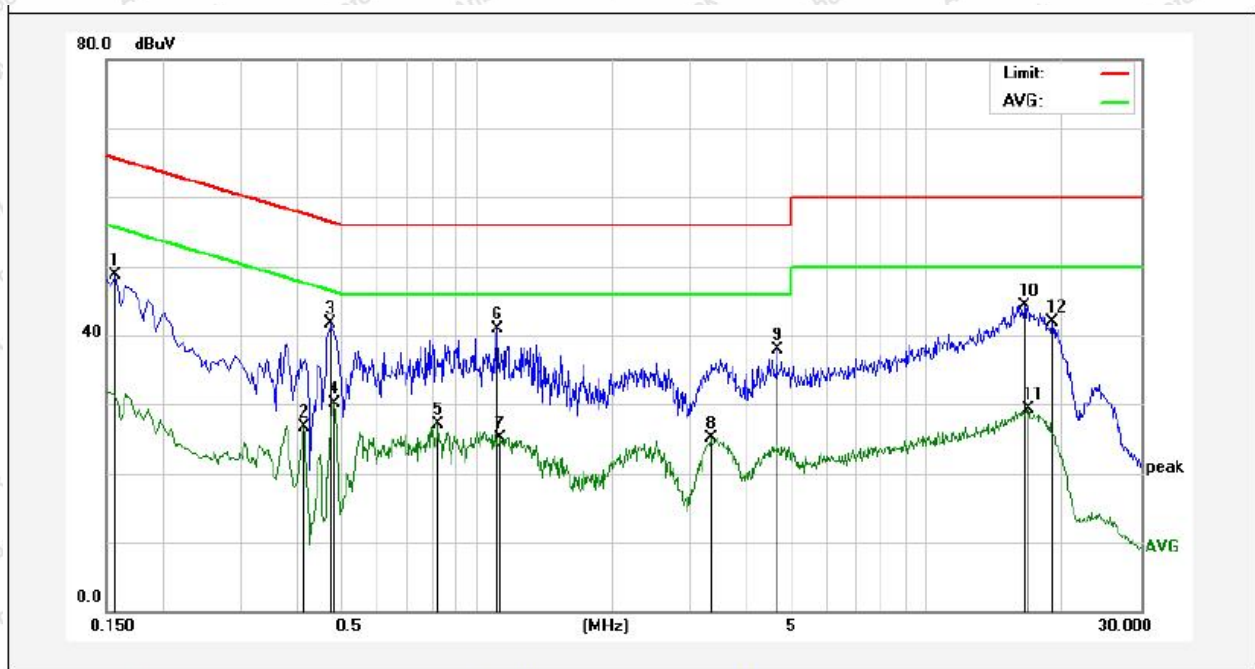


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	39.51	9.83	49.34	65.78	-16.44	QP	
2	0.1700	22.33	9.83	32.16	54.96	-22.80	AVG	
3	0.3740	12.56	9.82	22.38	48.41	-26.03	AVG	
4	0.4780	28.97	9.85	38.82	56.37	-17.55	QP	
5	0.4820	13.57	9.85	23.42	46.30	-22.88	AVG	
6	0.7660	25.57	9.87	35.44	56.00	-20.56	QP	
7	0.9020	9.68	9.86	19.54	46.00	-26.46	AVG	
8	1.0780	25.56	9.86	35.42	56.00	-20.58	QP	
9	1.2140	27.12	9.85	36.97	56.00	-19.03	QP	
10	3.3060	12.07	9.85	21.92	46.00	-24.08	AVG	
11	3.4540	25.56	9.85	35.41	56.00	-20.59	QP	
12	4.6180	11.73	9.86	21.59	46.00	-24.41	AVG	



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: High CH (2468MHz)
 Test Specification: AC 120V/60Hz for adapter
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 22.8°C/51%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	38.86	9.83	48.69	65.56	-16.87	QP	
2	0.4140	16.80	9.82	26.62	47.57	-20.95	AVG	
3	0.4740	31.79	9.85	41.64	56.44	-14.80	QP	
4	0.4820	20.24	9.85	30.09	46.30	-16.21	AVG	
5	0.8260	17.14	9.87	27.01	46.00	-18.99	AVG	
6	1.1140	31.11	9.86	40.97	56.00	-15.03	QP	
7	1.1300	15.28	9.86	25.14	46.00	-20.86	AVG	
8	3.3220	15.29	9.85	25.14	46.00	-20.86	AVG	
9	4.6540	28.07	9.86	37.93	56.00	-18.07	QP	
10	16.4860	34.08	10.19	44.27	60.00	-15.73	QP	
11	16.7580	19.01	10.20	29.21	50.00	-20.79	AVG	
12	19.0900	31.75	10.25	42.00	60.00	-18.00	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
		-	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

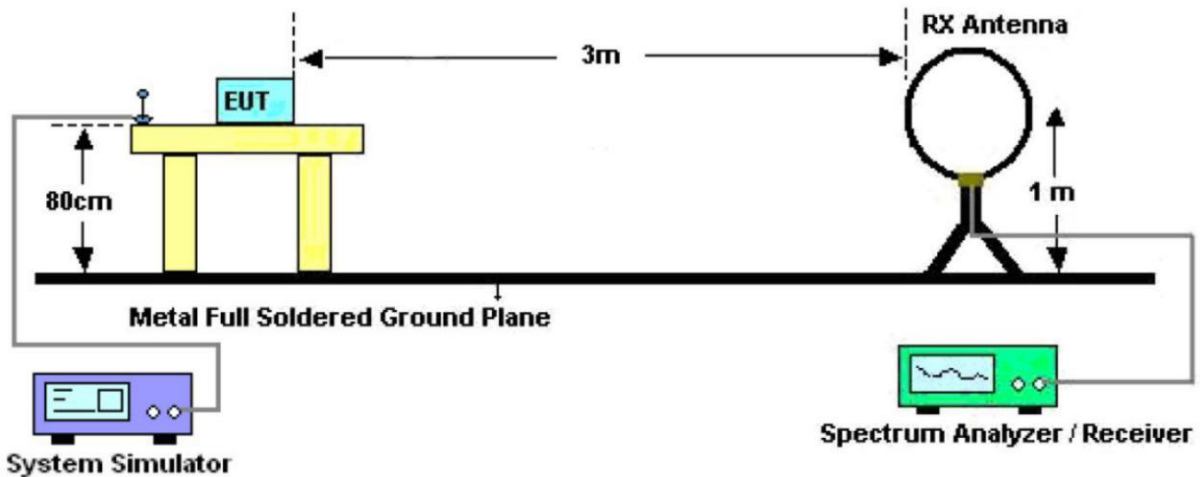


Figure 1. Below 30MHz

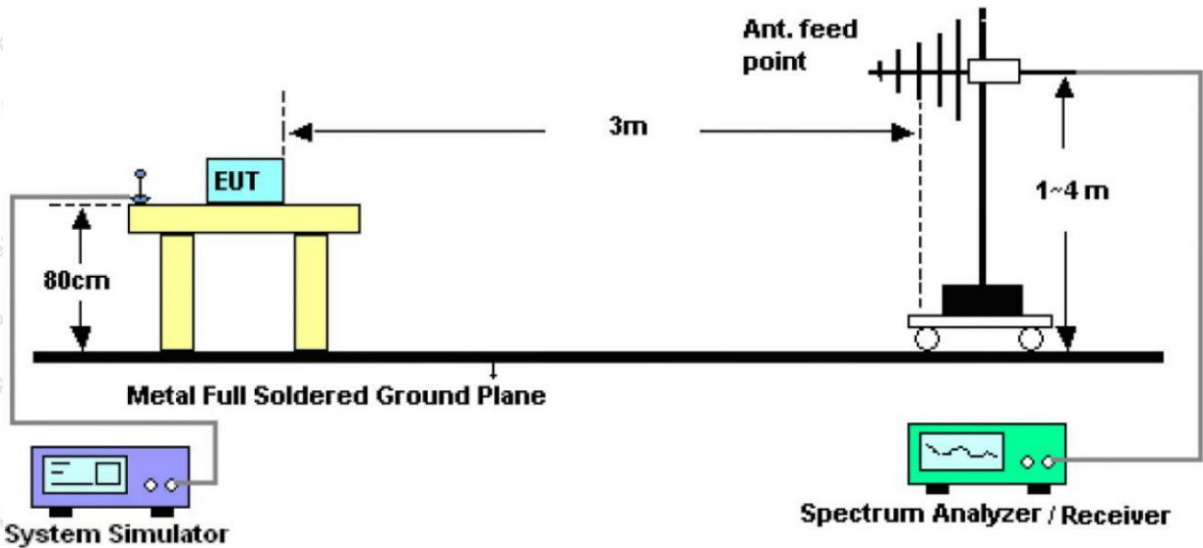


Figure 2. 30MHz to 1GHz

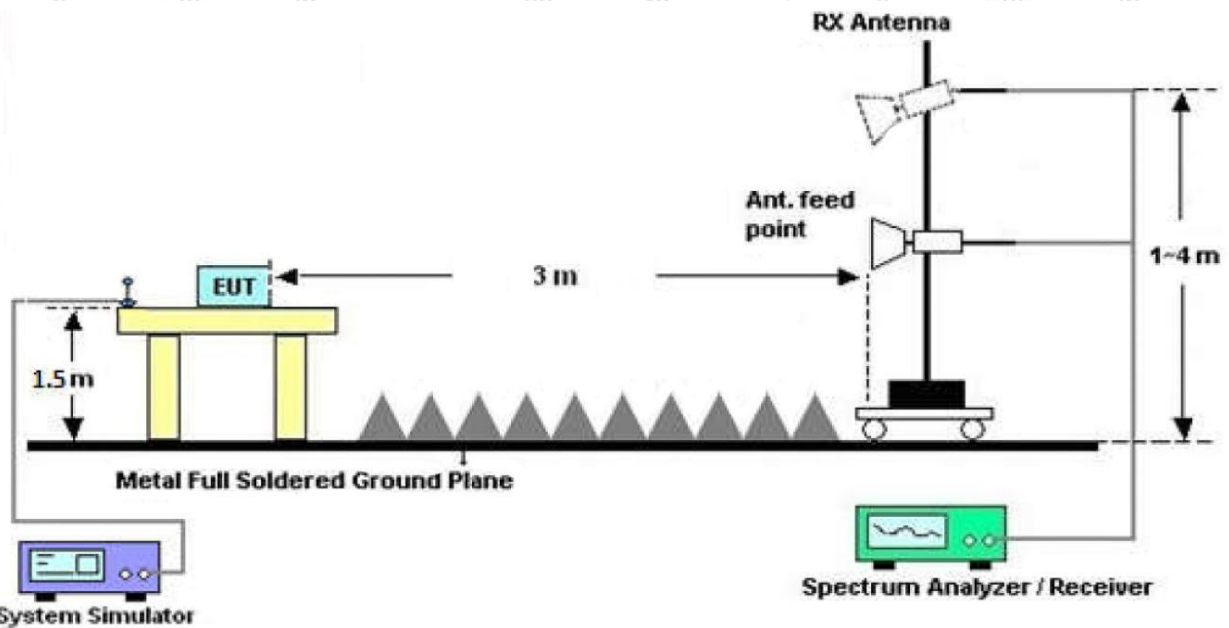


Figure 3. Above 1 GHz

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:

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 = 120kHz, 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.

For average measurement: use duty cycle correction factor method (DCCF)

Average level = Peak level + DCCF

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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

During the test, pre-scan all modes, only the worst case is recorded in the report.



Test Results (30~1000MHz)

Test Mode: High CH (2468MHz)
 Power Source: AC 120V/60Hz for adapter
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 24.1°C/48%RH

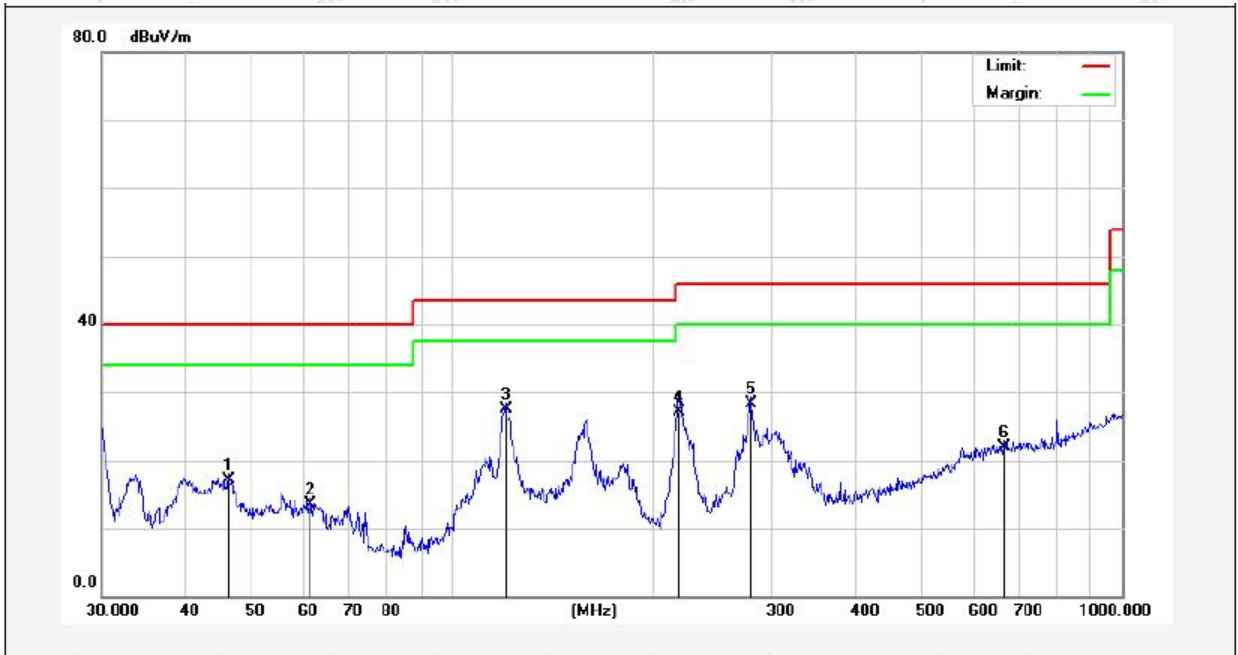


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.2757	42.32	-14.59	27.73	40.00	-12.27	QP			
2	67.2022	40.20	-19.60	20.60	40.00	-19.40	QP			
3	123.6985	54.34	-20.51	33.83	43.50	-9.67	QP			
4	184.4898	44.64	-20.38	24.26	43.50	-19.24	QP			
5	278.0668	40.57	-16.99	23.58	46.00	-22.42	QP			
6	651.9417	32.22	-10.63	21.59	46.00	-24.41	QP			



Test Results (30~1000MHz)

Test Mode: High CH (2468MHz)
 Power Source: AC 120V/60Hz for adapter
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 24.1°C/48%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	46.3402	32.41	-15.35	17.06	40.00	-22.94	QP			
2	61.5618	31.60	-18.06	13.54	40.00	-26.46	QP			
3	120.2766	51.50	-23.91	27.59	43.50	-15.91	QP			
4	218.3085	49.09	-22.02	27.07	46.00	-18.93	QP			
5	279.0436	47.31	-18.98	28.33	46.00	-17.67	QP			
6	668.1423	32.35	-10.39	21.96	46.00	-24.04	QP			



Test Results (1GHz-25GHz)

Test channel: Lowest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4816.00	50.14	15.27	65.41	74.00	-8.59	Vertical
7224.00	49.15	18.09	67.24	74.00	-6.76	Vertical
9632.00	45.36	23.76	69.12	74.00	-4.88	Vertical
12040.00	*			74.00		Vertical
14448.00	*			74.00		Vertical
4816.00	50.36	15.27	65.63	74.00	-8.37	Horizontal
7224.00	49.27	18.09	67.36	74.00	-6.64	Horizontal
9632.00	45.02	23.76	68.78	74.00	-5.22	Horizontal
12040.00	*			74.00		Horizontal
14448.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4816.00	25.11	15.27	40.38	54.00	-13.62	Vertical
7224.00	25.84	18.09	43.93	54.00	-10.07	Vertical
9632.00	22.14	23.76	45.90	54.00	-8.10	Vertical
12040.00	*			54.00		Vertical
14448.00	*			54.00		Vertical
4816.00	25.31	15.27	40.58	54.00	-13.42	Horizontal
7224.00	25.45	18.09	43.54	54.00	-10.46	Horizontal
9632.00	22.84	23.76	46.60	54.00	-7.40	Horizontal
12040.00	*			54.00		Horizontal
14448.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test channel: Middle						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4872.00	50.14	15.42	65.56	74.00	-8.44	Vertical
7308.00	49.15	18.02	67.17	74.00	-6.83	Vertical
9744.00	45.36	23.80	69.16	74.00	-4.84	Vertical
12180.00	*			74.00		Vertical
14616.00	*			74.00		Vertical
4872.00	50.36	15.42	65.78	74.00	-8.22	Horizontal
7308.00	49.27	18.02	67.29	74.00	-6.71	Horizontal
9744.00	45.02	23.80	68.82	74.00	-5.18	Horizontal
12180.00	*			74.00		Horizontal
14616.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4872.00	25.11	15.42	40.53	54.00	-13.47	Vertical
7308.00	25.84	18.02	43.86	54.00	-10.14	Vertical
9744.00	22.14	23.80	45.94	54.00	-8.06	Vertical
12180.00	*			54.00		Vertical
14616.00	*			54.00		Vertical
4872.00	25.31	15.42	40.73	54.00	-13.27	Horizontal
7308.00	25.45	18.02	43.47	54.00	-10.53	Horizontal
9744.00	22.84	23.80	46.64	54.00	-7.36	Horizontal
12180.00	*			54.00		Horizontal
14616.00	*			54.00		Horizontal



Test Results (1GHz-25GHz)

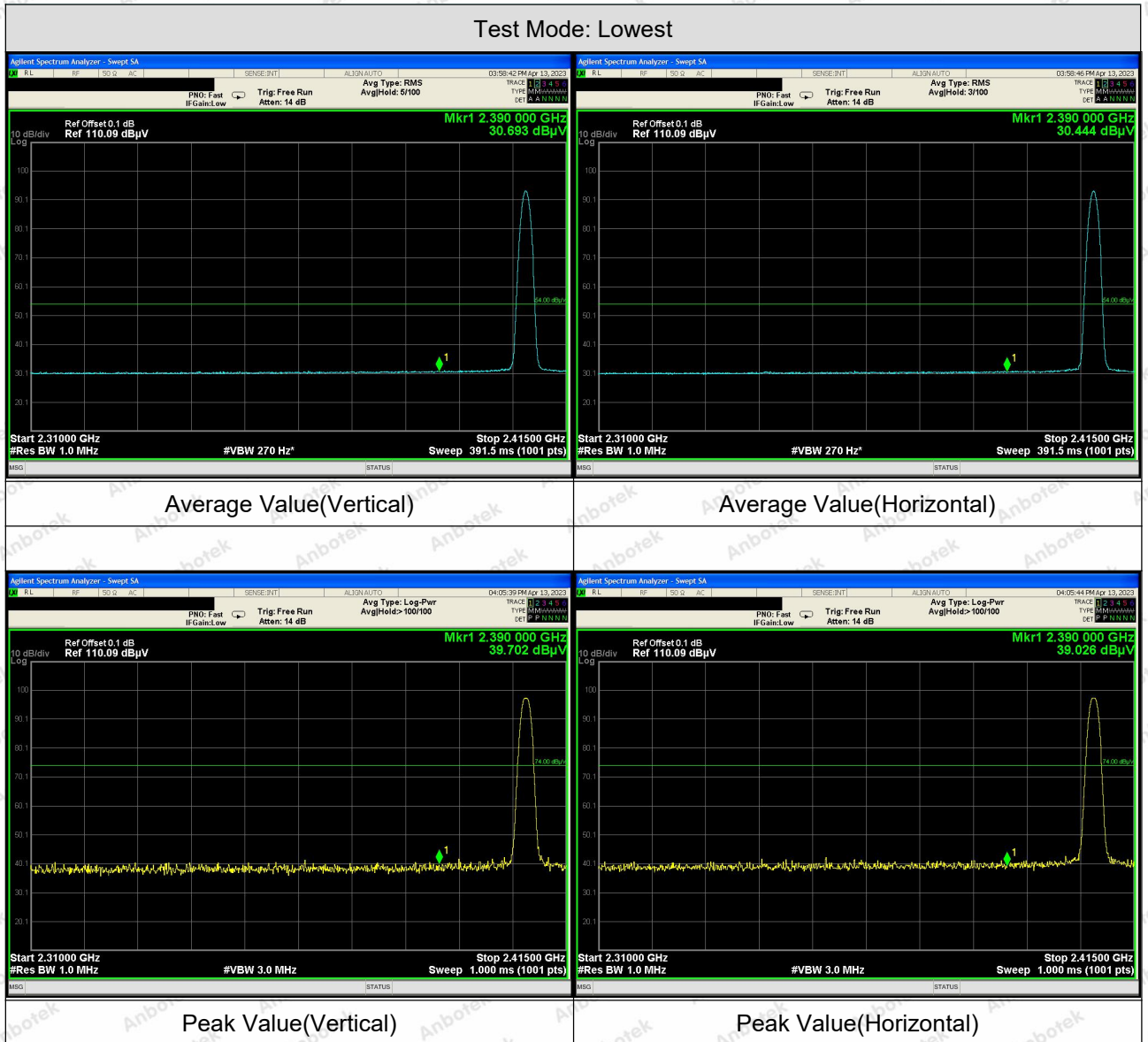
Test channel: Highest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4936.00	50.14	15.58	65.72	74.00	-8.28	Vertical
7404.00	49.15	17.93	67.08	74.00	-6.92	Vertical
9872.00	45.36	23.83	69.19	74.00	-4.81	Vertical
12340.00	*			74.00		Vertical
14808.00	*			74.00		Vertical
4936.00	50.36	15.58	65.94	74.00	-8.06	Horizontal
7404.00	49.27	17.93	67.20	74.00	-6.80	Horizontal
9872.00	45.02	23.83	68.85	74.00	-5.15	Horizontal
12340.00	*			74.00		Horizontal
14808.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4936.00	25.11	15.58	40.69	54.00	-13.31	Vertical
7404.00	25.84	17.93	43.77	54.00	-10.23	Vertical
9872.00	22.14	23.83	45.97	54.00	-8.03	Vertical
12340.00	*			54.00		Vertical
14808.00	*			54.00		Vertical
4936.00	25.31	15.58	40.89	54.00	-13.11	Horizontal
7404.00	25.45	17.93	43.38	54.00	-10.62	Horizontal
9872.00	22.84	23.83	46.67	54.00	-7.33	Horizontal
12340.00	*			54.00		Horizontal
14808.00	*			54.00		Horizontal

Remark:

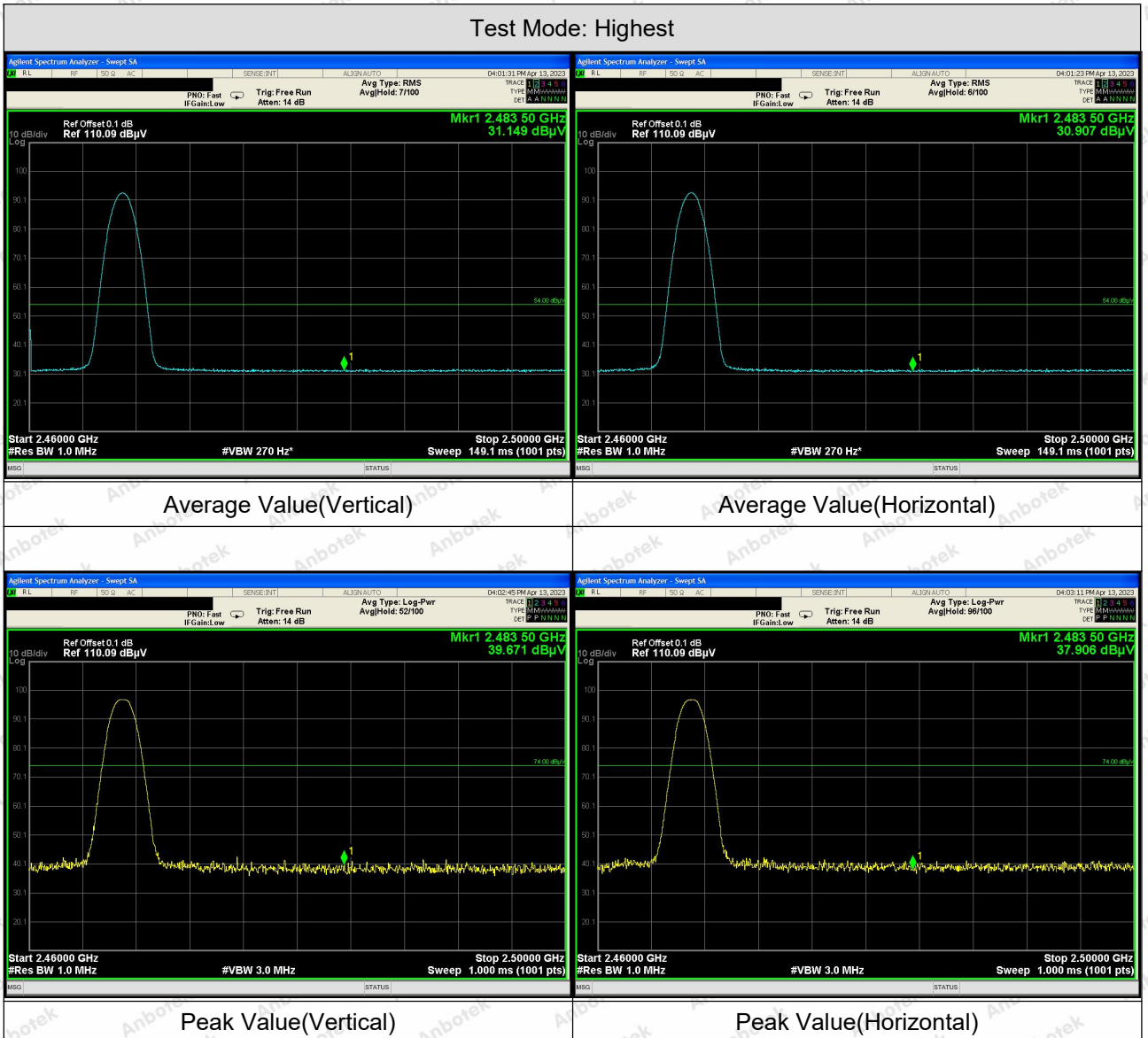
1. Result = Reading + Factor
2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Radiated Band Edge:



Test Mode: Highest

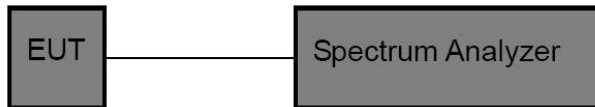


5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(1)
Test Limit	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.2. Test Setup



5.3. Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above,
2. Spectrum Setting:
 - RBW > the 20 dB bandwidth of the emission being measured
 - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
 - VBW ≥ RBW
 - Sweep = auto
 - Detector function = peak
 - Trace = max hold

5.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.

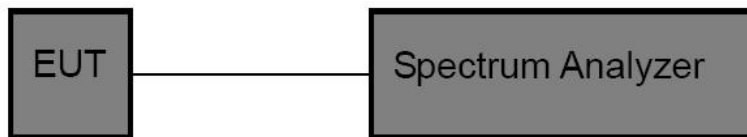


6. 20DB Occupy Bandwidth Test

6.1. Test Standard

Test Standard	FCC Part15 C Section 15.247 (a)(1)
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6.2. Test Setup



6.3. Test Procedure

Using the following spectrum analyzer settings:

1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
2. Set the RBW $\geq 1\%$ of the 20 dB bandwidth.
3. Set the VBW \geq RBW
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

6.4. Test Data

Pass

Please refer to Appendix A of the Appendix Test Data.

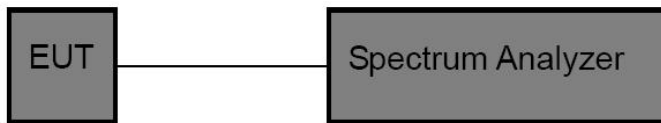


7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)
Test Limit	2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W.

7.2. Test Setup



7.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

1. Span= Wide enough to capture the peaks of two adjacent channels
2. Set the RBW =approximately 30% of the channel spacing.
3. Set the VBW \geq RBW.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

7.4. Test Data

Pass

Please refer to Appendix D of the Appendix Test Data.

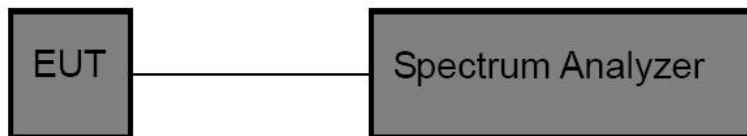


8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Limit	>15 channels

8.2. Test Setup



8.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

1. Span= the frequency band of operation
2. Set the RBW = less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. Set the VBW \geq RBW.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

8.4. Test Data

Pass

Please refer to Appendix F of the Appendix Test Data.

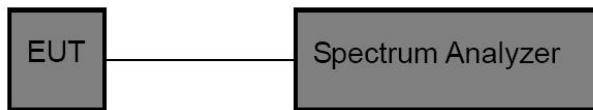


9. Dwell Time Test

9.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Limit	0.4 s

9.2. Test Setup



9.3. Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span= zero span, centered on a hopping channel
2. Set the RBW = 1 MHz.
3. Set the VBW \geq RBW.
4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

9.4. Test Data

Pass

Please refer to Appendix E of the Appendix Test Data.

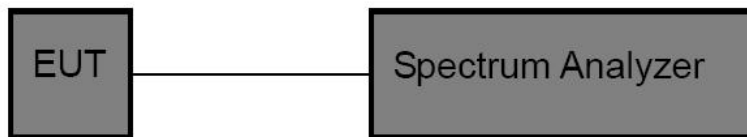


10. 100kHz Bandwidth of Frequency Band Edge Requirement

10.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

10.2. Test Setup



10.3. Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

1. Set the RBW = 100kHz.
2. Set the VBW = 300kHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

10.4. Test Data

Pass

Please refer to Appendix G & Appendix H of the Appendix Test Data.



11. Antenna Requirement

11.1. 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 exceeds 6 dBi.</p>

11.2. Antenna Connected Construction

The antenna is Monopole Antenna which permanently attached, and the best case gain of the antenna is 2.27dbi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

