

Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 1 of 49

FCC TEST REPORT

Client Name : Flint Rehabilitation Devices LLC

Address 18023 Sky Park Circle Ste.H2, Irvine, California, United

States 92614

Product Name : MiGo

Date : Jun. 24, 2019

Shenzhen Anbotek Compliance Laboratory Limited



Report No.: SZAWW190330008-01

FCC ID: 2ALVF-FRDMI001

Contents

1. General Information				$V_{U_{P}}$			
1.1. Client Information	botek P	mbo	by.	day	otto.	Aun TOK	
1.2. Description of Device (EUT) 1.3. Auxiliary Equipment Used Duri	, otek	Vupore.	Am	,o ⁾	Motek	Anbor	
1.3. Auxiliary Equipment Used Duri	ng Test	,,bote	Anbo	P	Hotok	, nbote	
1.4. Description of Test Modes	Anbo	P**	ote ^K	pote	VUL		otek
1.4. Description of Test Modes 1.5. List of channels	Anbore	Anu		Kipotek	Vupor		
1.6. Description Of Test Setup	de Ya	oten A	14,00	otek	das	,010	Ville
1.7. Test Equipment List	V.	.otek	Anboro	Anv		hotek	p.
1.7. Test Equipment List	pore A	, vek	abotek	Anbo	¥	otek.	
1.9. Description of Test Facility	unboten.	Anbe	n'	ek A	pore	Anv	X.
1.9. Description of Test Facility 2. Summary of Test Results	, abotek	Anbore	Van	Yay	Repotek	Anbox	1
3. Conducted Emission Test 3.1. Test Standard and Limit 3.2. Test Setup	Pri.	odo.	ter Ar	,po	, ote	k Anb	1
3.1. Test Standard and Limit	Anbe		botek	Anbore	Am	491	1
3.2. Test Setup	ek Anbo	P.	7.01e/c	appoten	Amb	- Y	1
3.3. Test Procedure	note ^k	pote.	Anu	0	(e)K	upor	1
3.3. Test Procedure	Yo	, botek	Anbor	bu.	wore _k	anboter	1
4. Radiation Spurious Emission and Bar	nd Edge	r otek	. Anboi	P.C		hote	1
4.1. Test Standard and Limit	Anbore.	Anv	,	ootek	Aupor	b.,.	^V 1
4.2. Test Setup	, abotek	Anbo		,,otek	anbote	Anb	1
4.2. Test Setup	,y	lek V	pope.	Aur.	?a	stek p	nbo
4.4. Test Data	Yn.		botek	Anbo	po-	note _K	,1
5.1. Test Standard and Limit	tootek	Anbore	VII.		poten	Anbu	2
5.1. Test Standard and Limit	br.	popoten	Anbe		apotek.	Anbore	2
5.3. Test Procedure	Amb	¹ 997	ek Anl	000	Pr.		2
5.4. Test Data	Anbor	br	uotek-	upoter.	Anbe	, e.V	2
6. 6DB Occupy Bandwidth Test	* VP.	b.,		hote.	AUD		2
6.1. Test Standard and Limit		ootek	Anbo			pote.	2
6.3. Test Procedure	Mpore	An. Hek	, thote	Anl		h, Hotek	2
6.4. Test Data	anbotek	Anbu	il.	otek	Vupote.	Ans	2
7. Power Spectral Density Test	,ootek	Anbot	Anı	Yay	, abotek	Anbo	3
7.1. Test Standard and Limit	Pro-	19.	poter !	AUD.		cek Ar	3
7.2. Test Setup	Ambo		, otek	Anbore	An	- Nesk	3
7.3. Test Procedure	otek Ani	00-	VI.	, poote	An An	(b)	3
7.4. Test Data	Ketek	Moter	Anbo	yr:	otek	Anbote	3
6.2. Test Setup	nd Edge Red	quirement	Anbore	An	- Nak	unbotek.	3
8.1. Test Standard and Limit	Anbo	par.	do. N	oter	YUD		3
8.2. Test Setup	Anboten	And		ubote ^K	Anbore	Yu.	3
nzhon Anhotek Complianes Laborate	imited note				0-400	ND DE OE	10-



Report No.: SZAWW190330008-01	FCC II	D: 2ALVF-FRE	OMI001	Pag	e 3 of 49
8.3. Test Procedure			Yo		35
8.4. Test Data	Yur.	, otek	Mpor	br.	35
9. Antenna Requirement	Anbor	K. Valek	anboter.	Anbe	39
9.1. Test Standard and Requirement	, Albote	Kur		Anbor.	39
9.2. Antenna Connected Construction	J.a.V	otek Anbo	. b	otek pobo ⁵	39
APPENDIX I TEST SETUP PHOTOGRA	APH		pore, Yur		40
APPENDIX II EXTERNAL PHOTOGRA	PH	'Un	, botek	inpo. Ai	42
APPENDIX III INTERNAL PHOTOGRAL	PHyotek				And

Code: AB-RF-05-a



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 4 of 49

TEST REPORT

Applicant Flint Rehabilitation Devices LLC

Manufacturer Flint Rehabilitation Devices LLC

Product Name MiGo

Model No. FRD-MI-001

Trade Mark **Exercise Tracker**

Input: AC 110-240V, 50-60Hz, 0.1A

Output: DC 5V, 1A Rating(s)

(with DC 3.7V, 90mAh Battery inside)

Test Standard(s) FCC Part15 Subpart C 2018, Section 15.247

Test Method(s) ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05

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. 30, 2019 Date of Test Mar. 30~May 23, 2019 Anbotek Prepared By (Engineer / Oliay Yang) Approved § Reviewer (Supervisor / Snowy Meng) Approved & Authorized Signer (Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 5 of 49

1. General Information

1.1. Client Information

Applicant	:	Flint Rehabilitation Devices LLC
Address	:	18023 Sky Park Circle Ste.H2, Irvine, California, United States 92614
Manufacturer	:	Flint Rehabilitation Devices LLC
Address	:	18023 Sky Park Circle Ste.H2, Irvine, California, United States 92614
Factory	:	Flint Rehabilitation Devices LLC
Address	:	18023 Sky Park Circle Ste.H2, Irvine, California, United States 92614

1.2. Description of Device (EUT)

Product Name	:	MiGo	Anbotek Anbotek Anbotek Anbotek						
Model No.	:	FRD-MI-001	Anbotek Anbotek Anbote An						
Trade Mark	:	Exercise Tracker	otek Anbotek Anbotek Anbo						
Test Power Supply	:	AC 240V, 60Hz for adapter/ AC 120V, 60Hz for adapter / DC 3.7V Battery inside							
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(1-2-1(Normal Sample), 1-2-2(Engineering Sample)						
		Operation Frequency:	2402MHz~2480MHz						
		Transfer Rate:	1 Mbits/s						
Product		Number of Channel:	40 Channels						
Description	•	Modulation Type:	GFSK Annoted A						
		Antenna Type:	Ceramic Antenna						
		Antenna Gain(Peak):	0.5 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

10	1,117		MODEL: 005	nlo
d'i	Adapter	:	INPUT: AC 110-240V, 50-60Hz, 0.1A	Þ
			OUTPUT: DC 5V, 1A	

Hotline 400-003-0500 www.anbotek.com



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 6 of 49

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.

Pretest Mode	Descr	iption
Mode 1	CH00	Anbotek Anbotek
Mode 2	CH19	TX+ Charging Mode/TX Only
Mode 3	CH39	

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)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	Ahbotek	2424	20	2442	29	2460	38	2478
03	2408	12,nb0	2426	21	2444	30	2462	39	2480
04	2410	tek 13 pr	2428	22	2446	31 Anbo	2464		
05	2412	30°14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468	1001	N AN
07	2416	16	2434	25	2452	34	2470		O ¹⁶ X
08	2418	17 nbot	2436	26	2454	35	2472		

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.

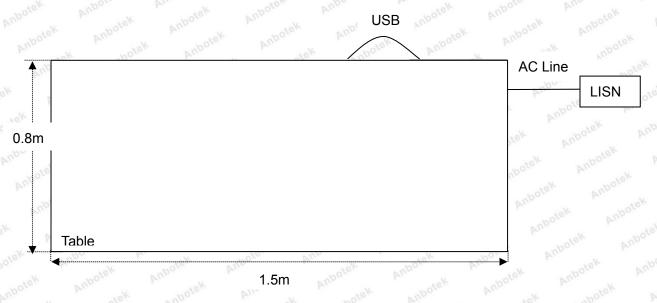




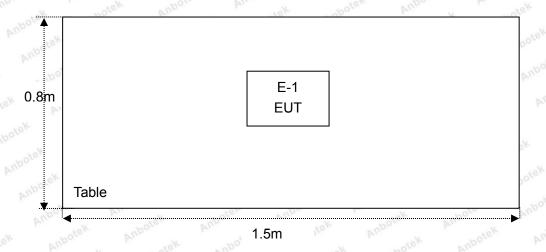
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 7 of 49

1.6. Description Of Test Setup

CE



RE





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 8 of 49

1.7. Test Equipment List

P	V GOLO	VU.	100	bo.	260	amp	
Item Equipment		Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
nbatek nbatek Anbote	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 05, 2018	1 Year	
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year	
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year	
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year	
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year	
6.00	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year	
_{ce} ×7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year	
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year	
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year	
10.	Horn Antenna	ntenna A-INFO		J211060628	Nov. 20, 2018	1 Year	
[©] *11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	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. 05, 2018	1 Year	
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year	
× 15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year	
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year	
17. _{Anb} o	MXG RF Vector Signal Generator	MXG RF Vector Agilent		N5182A MY48180656		1 Year	
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year	
19.	DC Power Supply	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year	
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year	



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 9 of 49

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	abotek	Anbotek	Anbou	Anbol
		Ur = 3.8 dB (Vertical)	nbotek	Anboten	Anb	V.
		Anbotek Anbo	A. abotel	Anbote	ak And	ek.
Conduction Uncertainty	:	Uc = 3.4 dB	· Anb	otek Anbo	Co. Aus	potek

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 registed 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



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 10 of 49

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)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 11 of 49

3. Conducted Emission Test

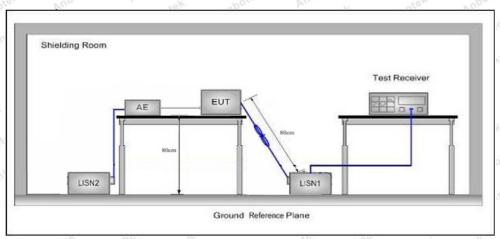
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15	.207 Maria M	
Test Limit	Fraguenay	Maximum RF L	ine Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	nbotek 50 mbote An

creasing 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 all the modes, and found 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.

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 12 of 49

Conducted Emission Test Data

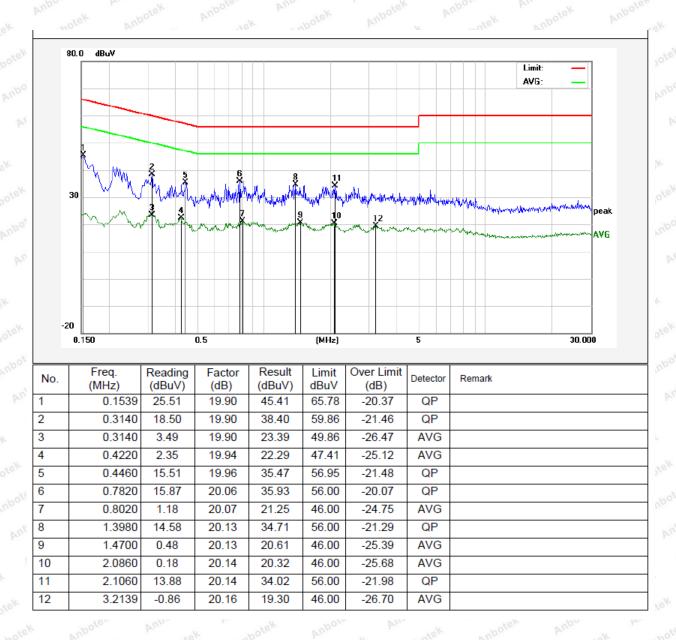
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

Tem.: 22.5°C Hum.: 56%





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 13 of 49

Conducted Emission Test Data

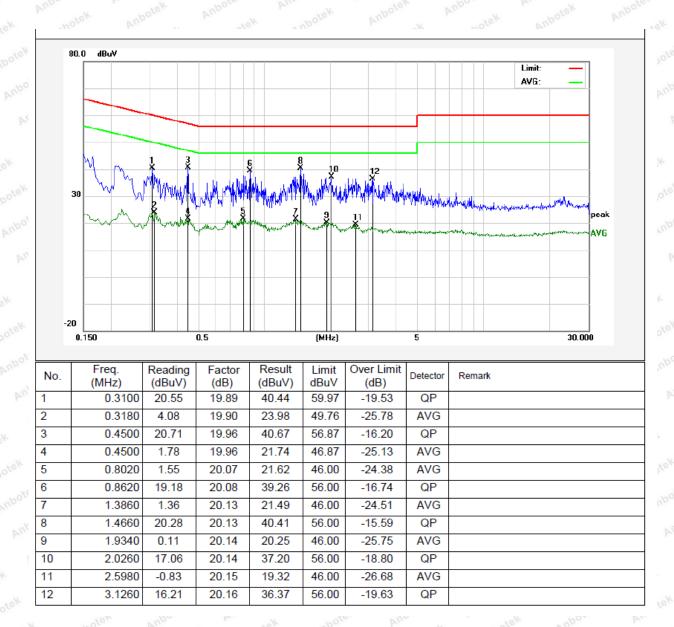
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.5°C Hum.: 56%





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 14 of 49

Conducted Emission Test Data

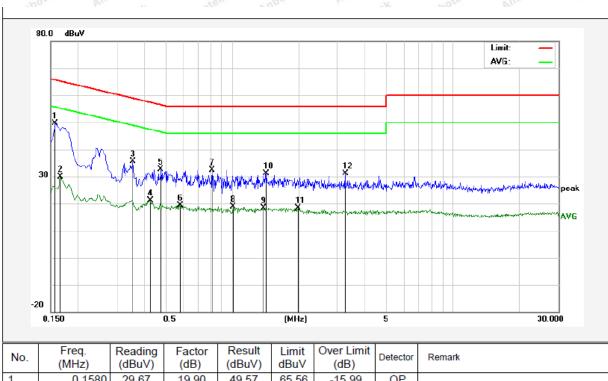
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.5℃ Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	29.67	19.90	49.57	65.56	-15.99	QP	
2	0.1660	9.90	19.90	29.80	55.15	-25.35	AVG	
3	0.3540	15.80	19.91	35.71	58.87	-23.16	QP	
4	0.4260	1.19	19.95	21.14	47.33	-26.19	AVG	
5	0.4740	12.56	19.97	32.53	56.44	-23.91	QP	
6	0.5780	-0.58	20.00	19.42	46.00	-26.58	AVG	
7	0.8100	12.33	20.07	32.40	56.00	-23.60	QP	
8	1.0100	-1.32	20.12	18.80	46.00	-27.20	AVG	
9	1.3779	-1.66	20.13	18.47	46.00	-27.53	AVG	
10	1.4299	11.10	20.13	31.23	56.00	-24.77	QP	
11	1.9860	-1.75	20.14	18.39	46.00	-27.61	AVG	
12	3.2500	10.90	20.16	31.06	56.00	-24.94	QP	



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 15 of 49

Conducted Emission Test Data

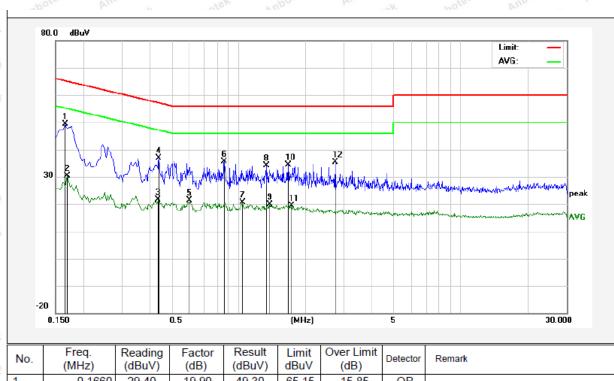
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.5°C Hum.: 56%



No.	(MHz)	(dBuV)	(dB)	(dBuV)	dBuV	(dB)	Detector	Remark
1	0.1660	29.40	19.90	49.30	65.15	-15.85	QP	
2	0.1700	10.43	19.90	30.33	54.96	-24.63	AVG	
3	0.4340	1.63	19.95	21.58	47.18	-25.60	AVG	
4	0.4380	16.83	19.95	36.78	57.10	-20.32	QP	
5	0.6020	1.37	20.01	21.38	46.00	-24.62	AVG	
6	0.8620	15.60	20.08	35.68	56.00	-20.32	QP	
7	1.0460	0.55	20.12	20.67	46.00	-25.33	AVG	
8	1.3340	14.07	20.13	34.20	56.00	-21.80	QP	
9	1.3820	-0.28	20.13	19.85	46.00	-26.15	AVG	
10	1.6780	14.21	20.13	34.34	56.00	-21.66	QP	
11	1.7300	-0.71	20.13	19.42	46.00	-26.58	AVG	
12	2.7220	15.32	20.15	35.47	56.00	-20.53	QP	



Report No.: SZAWW190330008-01 Page 16 of 49

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 1	5.209 and 15.205			
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	botek - Vupor	rek who,	300
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek Anh	lo. by	otek 30 Moo
	1.705MHz-30MHz	30	Anbotek	Yupo ofek	30 M
Test Limit	30MHz~88MHz	100 notek	40.0	Quasi-peak	Napo 3
	88MHz~216MHz	150	43.5	Quasi-peak	An3otek
	216MHz~960MHz	200	46.0	Quasi-peak	X 3nbotek
	960MHz~1000MHz	500	54.0	Quasi-peak	otek 3 Anbot
	A h a w 4000MI I -	500	54.0	Average	nbotek 3 An
	Above 1000MHz	Por Ver Potek	74.0	Peak	nbo'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

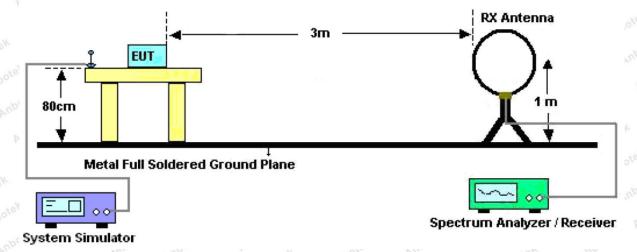


Figure 1. Below 30MHz





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 17 of 49

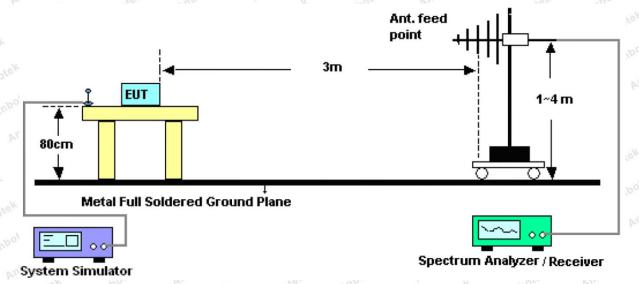


Figure 2. 30MHz to 1GHz

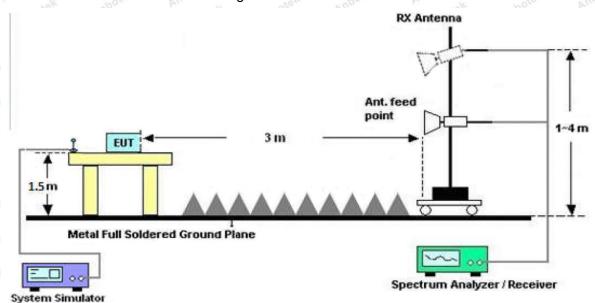


Figure 3. Above 1 GHz

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.



Code:AB-RF-05-a
Hotline
400-003-0500
www.anbotek.com



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 18 of 49

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 = 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 all the modes, and found the Middle channel(TX Only) 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.





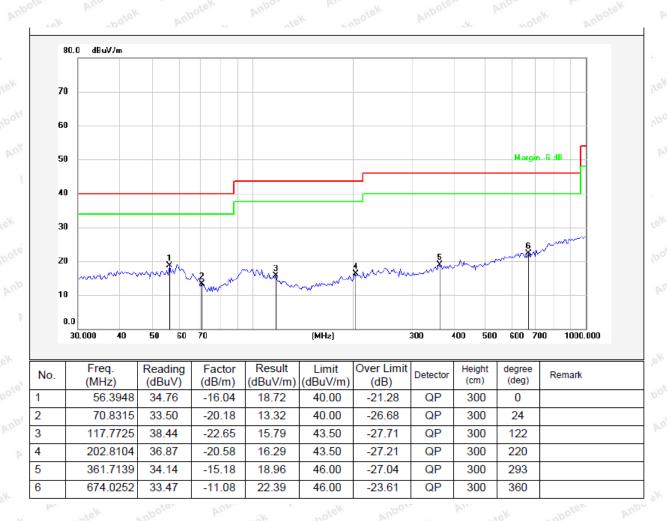
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 19 of 49

Test Results (30~1000MHz)

Job No.: SZAWW190330008-01 Temp.(℃)/Hum.(%RH): 22.4℃/58%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Test Mode: Mode 2 Polarization: Horizontal





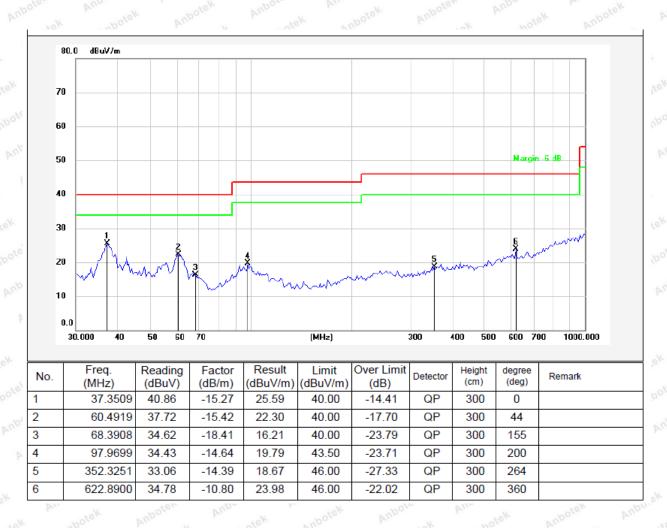
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 20 of 49

Test Results (30~1000MHz)

Job No.: SZAWW190330008-01 Temp.(℃)/Hum.(%RH): 22.4℃/58%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Test Mode: Mode 2 Polarization: Vertical





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 21 of 49

Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Lov	vest		
			ſ	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804.00	38.26	34.04	6.58	34.09	44.79	74.00	-29.21	"upo o
7206.00	32.46	37.11	7.73	34.50	42.80	74.00	-31.20	AnV
9608.00	32.03	³ 39.31	9.23	34.79	45.78	74.00	-28.22	Kuk
12010.00	otek *	botek	Aupole	Ann	Anbotek	74.00	Abote	· V
14412.00	po tek	Anbotek	Anbote	Anabote	k Anbote	74.00	lek vup	ote ^K V
4804.00	42.74	34.04	6.58	34.09	49.27	74.00	-24.73	npotek
7206.00	34.30	37.11	7.73	34.50	44.64	74.00	-29.36	AnHite
9608.00	31.54	39.31	9.23	34.79	45.29	74.00	-28.71	Hob
12010.00	** *	potek	Anbotes	Anbo	anbotek	74.00	And	Н
14412.00	pote*	anbotek	Aupoton	Amb	Anbotel	74.00	ek ab	rek H
	1007	12.7	A۱	verage Valu	е			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804.00	26.89	34.04	6.58	34.09	33.42	54.00	-20.58	V
7206.00	21.04	37.11	7.73	34.50	31.38	54.00	-22.62	V V
9608.00	20.06	39.31	9.23	34.79	33.81	54.00	-20.19	V
12010.00	Aup Ste.	Ann	Anbote Anbote	Anbe	rek by	54.00	oter A	Vek
14412.00	Anbote	K View	otek Ant	otek A	looz b	54.00	Kupoten K	V
4804.00	31.22	34.04	6.58	34.09	37.75	54.00	-16.25	H
7206.00	23.28	37.11	7.73	34.50	33.62	54.00	-20.38	ek H
9608.00	19.87	39.31	9.23	34.79	33.62	54.00	-20.38	H
12010.00	Anbotek	Anbo	Anbote	k Anbo	bus.	54.00	otek Ar	Hek
14412.00	AI*DOLOR	Anbo	otek Anb	otek Ar	pose, My	54.00	nbotek	Anbor



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 22 of 49

Test Results (1GHz-25GHz)

Test Mode:	CH19			Test	channel: Mid	dle		
			ı	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880.00	36.90	34.38	6.69	34.09	43.88	74.00	-30.12	^{rup} of _{ek}
7320.00	31.56	37.22	7.78	34.53	42.03	74.00	-31.97	AnVote
9760.00	31.23	39.46	9.35	34.80	45.24	74.00	-28.76	Vap
12200.00	otek *	botek	Aupote	Am	Anbotek	74.00	Abote	· V p
14640.00	totek	Anbotek	Anbore	Andote	Anbote	74.00	ek enb	otek V
4880.00	41.10	34.38	6.69	34.09	48.08	74.00	-25.92	nbotek
7320.00	33.28	37.22	7.78	34.53	43.75	74.00	-30.25	Anthiek
9760.00	30.61	39.46	9.35	34.80	44.62	74.00	-29.38	Anbo
12200.00	** * *	potek	Aupoter	Anboundek	Anbotek	74.00	Andotel	H
14640.00	*	Anbolek	Aupoto.	Ann	Anbotek	74.00	ek up	rek H
			A۱	verage Valu	e			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880.00	25.80	34.38	6.69	34.09	32.78	54.00	-21.22	V
7320.00	20.30	37.22	7.78	34.53	30.77	54.00	-23.23	tek V
9760.00	19.40	39.46	9.35	34.80	33.41	54.00	-20.59	V
12200.00	Aup ♣	Ann	ik Anbote	N Anbo	tek bu	54.00	over by	Vek
14640.00	A*bote	Y View	otek Ant	lotek Vi	ipo- k	54.00	Kuporen	Amb
4880.00	29.99	34.38	6.69	34.09	36.97	54.00	-17.03	H
7320.00	22.45	37.22	7.78	34.53	32.92	54.00	-21.08	ek H
9760.00	19.10	39.46	9.35	34.80	33.11	54.00	-20.89	H
12200.00	Aupotek	Anbo	Anbote	k Aupo,	Pun.	54.00	otek bi	Hok
14640.00	Althoren	Anac	otek Anb	otek Ar	page Wy	54.00	hpotek	Anbo.



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 23 of 49

Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Hig	hest		
			ı	Peak Value				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960.00	36.52	34.72	6.79	34.09	43.94	74.00	-30.06	npo V
7440.00	31.31	37.34	7.82	34.57	41.90	74.00	-32.10	PUA,
9920.00	31.00	39.62	9.46	34.81	45.27	74.00	-28.73	V
12400.00	otek *	botek	Aupote	Am	Anbotek	74.00	An abote	V
14880.00	totek.	Anbotek	Aupore.	Andote	K Anbote	74.00	ek vup	ote ^K V
4960.00	40.64	34.72	6.79	34.09	48.06	74.00	-25.94	hotek
7440.00	32.99	37.34	7.82	34.57	43.58	74.00	-30.42	AnH
9920.00	30.35	39.62	9.46	34.81	44.62	74.00	-29.38	Ho
12400.00	* * *	potek	Aupotek	Anbu	Anbotek	74.00	Andapotel	Н
14880.00	po pe	Anbotek	Aupoto.	Ann	Anbotel	74.00	ex 200	rek H
			A	verage Valu	е			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol
4960.00	25.54	34.72	6.79	34.09	32.96	54.00	-21.04	V
7440.00	20.13	37.34	7.82	34.57	30.72	54.00	-23.28	V Mek V
9920.00	19.25	39.62	9.46	34.81	33.52	54.00	-20.48	V
12400.00	Aup Ster	Aup	N Anbott	Anbo	rek bu	54.00	oter A	V
14880.00	Anbore	K BUG	otek Ant	lotek W	Ipor by	54.00	Aupoten	Anbu
4960.00	29.69	34.72	6.79	34.09	37.11	54.00	-16.89	H
7440.00	22.25	37.34	7.82	34.57	32.84	54.00	-21.16	e ^k H
9920.00	18.92	39.62	9.46	34.81	33.19	54.00	-20.81	H
12400.00	Anb Qtek	Anbo	k Anbote	k Anbo	Mul.	54.00	otek Ar	H
14880.00	Al*botek	Anbo	dek sop	otek An	Pore. W	54.00	hotek	Aupor

Remark:

- 1. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a

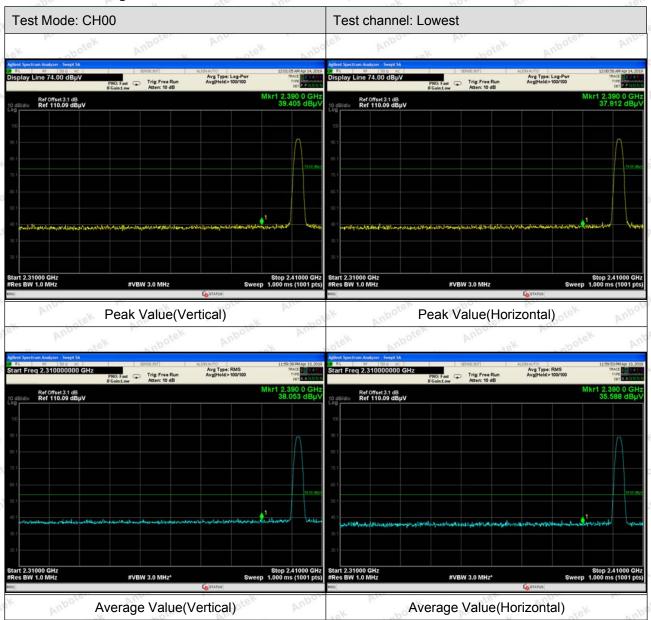
Hotline
400-003-0500

www.anbotek.com



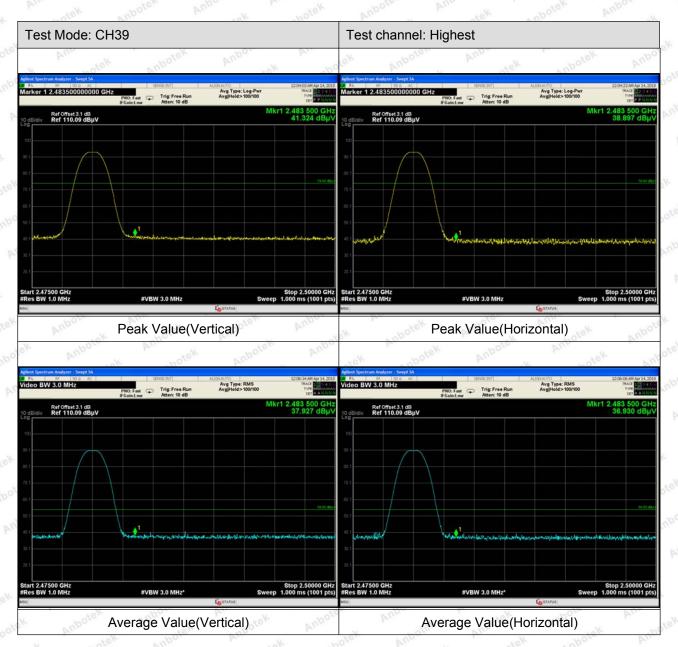
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 24 of 49

Radiated Band Edge:





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 25 of 49



Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 26 of 49

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.	247 (b)(3)	hotek	Anbotek	Anbo. stek
Test Limit	30dBm	Anbotek	Anboro	An	Anbotek	Anbo

5.2. Test Setup



5.3. Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- 1. Set the RBW ≥DTS bandwidth.
- 2. Set the VBW≥3*RBW.
- 3. Set the span≥ 3*RBW.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use peak marker function to determine the peak amplitude level.

5.4. Test Data

Test Item : Max. peak output power Test Mode : CH Low ~ CH High
Test Voltage : DC 3.7V Battery inside Temperature : 24℃
Test Result : PASS Humidity : 55%RH

	Channel Frequency	Peak Power output	Limit	Dogulto
	(MHz)	(dBm)	(dBm)	Results
8 K	2402	-4.760	abotek 30 abote	PASS
otek	2440	-4.551	Anbotek 30 Anbote	PASS
n'oot	2480	-4.013	30 Mapon	PASS

Code:AB-RF-05-a
Hotline
400-003-0500
www.anbotek.com



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 27 of 49



CH: Low



CH: Middle

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



Report No.: SZAWW190330008-01

FCC ID: 2ALVF-FRDMI001

Page 28 of 49



CH: High

Code: AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com



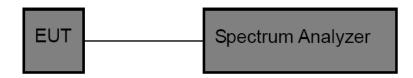
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 29 of 49

6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15	C Section 15	.247 (a)(2)	hotek	Anbotek	Anbo. stek
Test Limit	>500kHz	Anbotek	Anbore	An	Anbotek	Anbo

6.2. Test Setup



6.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW = 100kHz, VBW≥3*RBW =300kHz,

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

6.4. Test Data

Test Item : 6dB Bandwidth Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 24℃

Test Result : PASS Humidity : 55%RH

Channel	Frequency(MHz)	Bandwidth (kHz)	Limit (kHz)	Results
Low	2402	679.2	stek anbotek	PASS
Middle	2440	694.1	>500	PASS
High	2480	696.5	Anbo Anbo	PASS



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 30 of 49



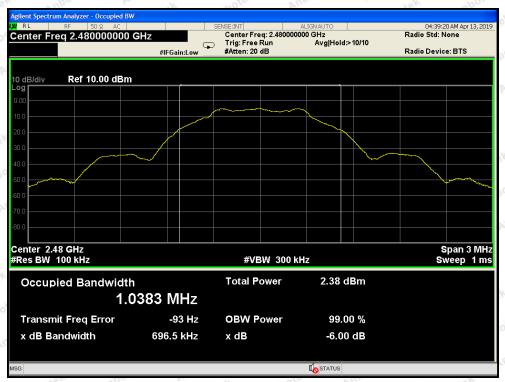
CH: Low



CH: Middle



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 31 of 49



CH: High

Code: AB-RF-05-a



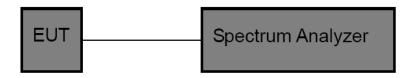
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 32 of 49

7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.	247 (e)	hotek	Anbotek	Anbo. stek
Test Limit	8dBm	Anbotek	Anbott	An	Anbotek	Anbo

7.2. Test Setup



7.3. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

7.4. Test Data

Test Item : Power Spectral Density Test Mode : CH Low ~ CH High Test Voltage : DC 3.7V Battery inside Temperature : 24° C

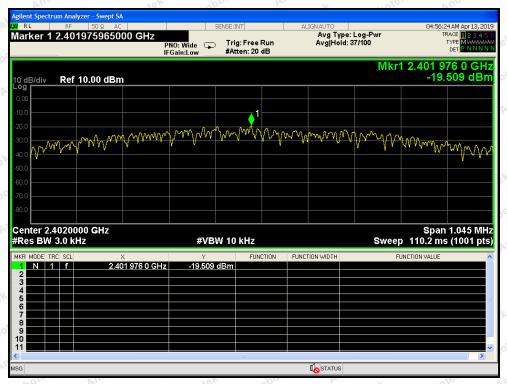
Test Result : PASS Humidity : 55%RH

1. N. M.		MO.	7.6	- MV
Channel	Frequency	PSD	Limit	Results
Charmer	(MHz)	(dBm/3KHz)	(dBm/3KHz)	Results
Low	2402	-19.509	8.00	PASS
Middle	2440	-19.423	8.00	PASS
High	2480	-18.921	8.00	PASS

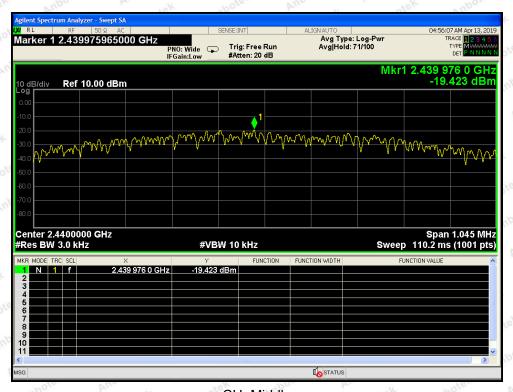
Code: AB-RF-05



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 33 of 49



CH: Low

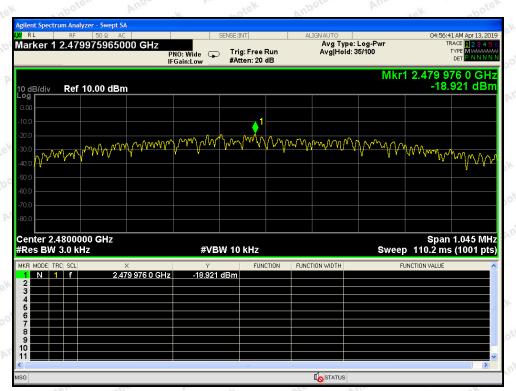


CH: Middle

Code: AB-RF-05-a



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 34 of 49



CH: High

Code: AB-RF-05-a



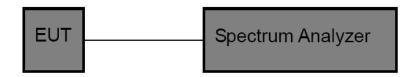
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 35 of 49

8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. 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 in 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 in15.209(a).

8.2. Test Setup



8.3. Test Procedure

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.

8.4. Test Data

Test Item : Band edge : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 24℃

Test Result : PASS Humidity : 55%RH

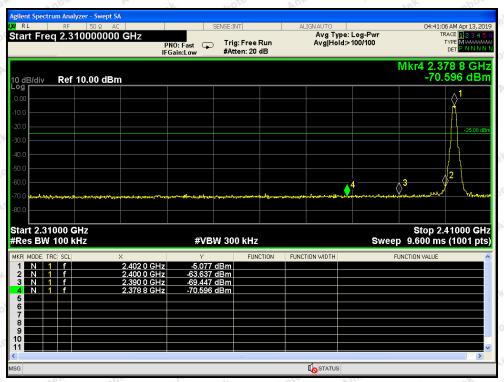
Frequency Band	Delta Peak to Band Emission	Limit	Results
(MHz)	(dBc)	(dBc)	
2400	58.560	>20	PASS
2483.5	64.269	>20	PASS

Shenzhen Anbotek Compliance Laboratory Limited

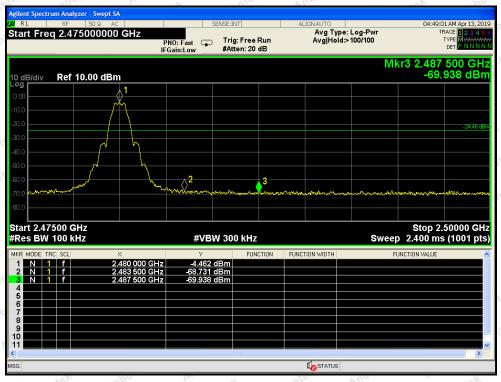
Code:AB-RF-05-a
Hotline
400-003-0500
www.anbotek.com



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 36 of 49



CH: Low



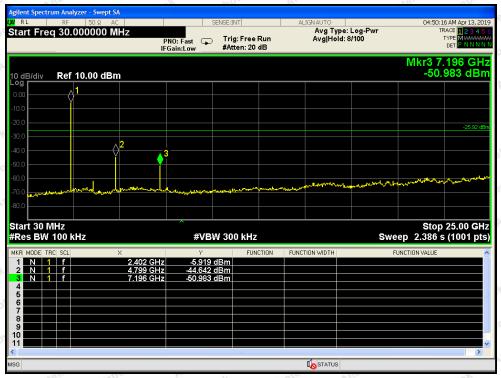
CH: High

Code: AB-RF-05-a

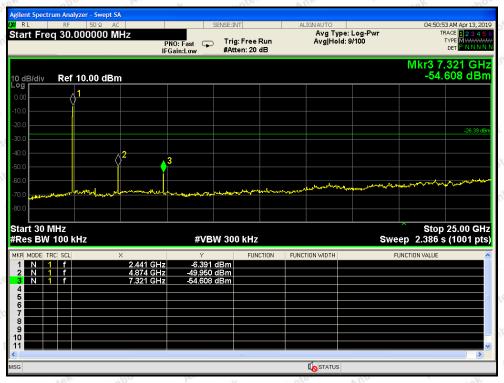


Report No.: SZAWW190330008-01 Conducted Emission Method FCC ID: 2ALVF-FRDMI001

Page 37 of 49



CH: Low

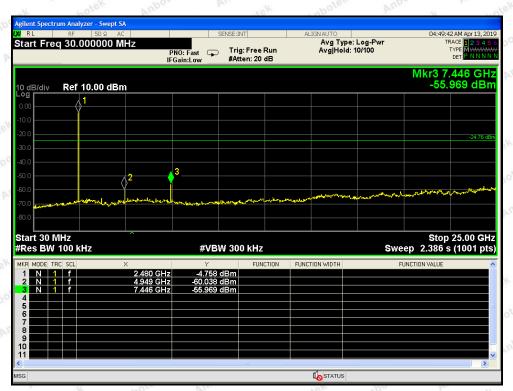


CH: Middle

Code: AB-RF-05-a



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 38 of 49



CH: High

Code: AB-RF-05-a



Report No.: SZAWW190330008-01 Page 39 of 49

9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	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. 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.

9.2. Antenna Connected Construction

The antenna is a On-board antenna which permanently attached, and the best case gain of the antenna is 0.5 dBi. It complies with the standard requirement.



Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a www.anbotek.com



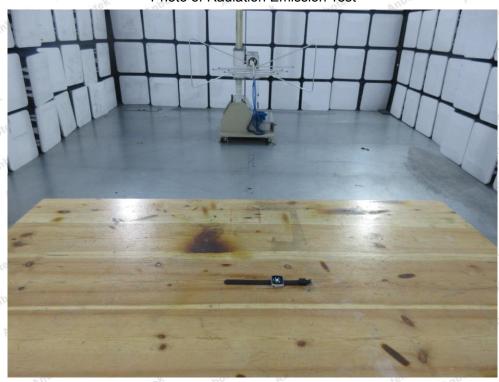
Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 40 of 49

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

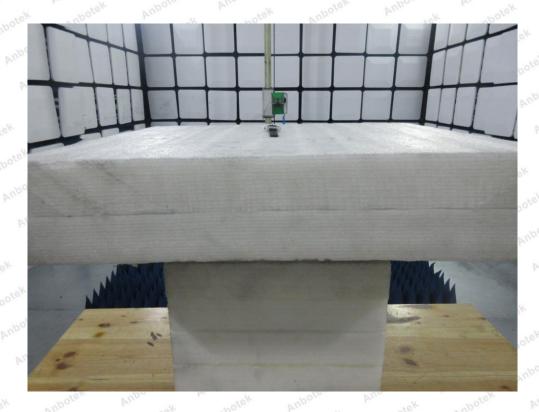


Photo of Radiation Emission Test





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 41 of 49





Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 42 of 49

APPENDIX II -- EXTERNAL PHOTOGRAPH





Shenzhen Anbotek Compliance Laboratory Limited

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







Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 43 of 49







Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 44 of 49







Report No.: SZAWW190330008-01

FCC ID: 2ALVF-FRDMI001

Page 45 of 49



Shenzhen Anbotek Compliance Laboratory Limited

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

Code: AB-RF-05-a

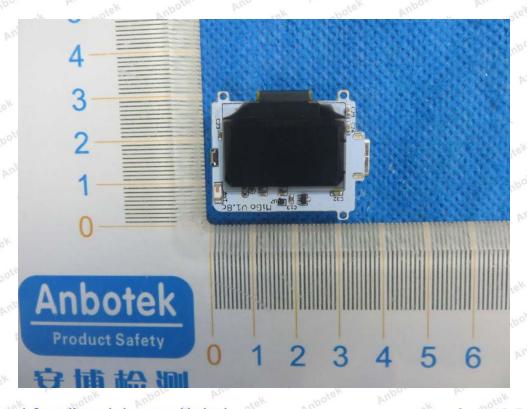
Hotline 400-003-0500 www.anbotek.com



Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 46 of 49

APPENDIX III -- INTERNAL PHOTOGRAPH



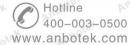


Shenzhen Anbotek Compliance Laboratory Limited

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

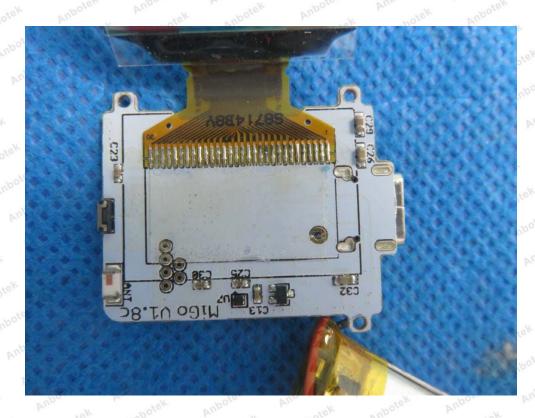






Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 47 of 49



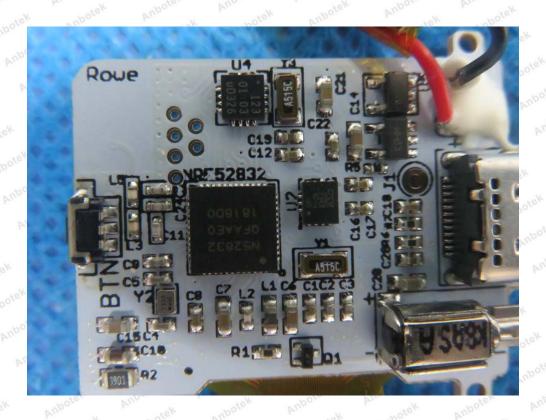




Report No.: SZAWW190330008-01

FCC ID: 2ALVF-FRDMI001

Page 48 of 49







Report No.: SZAWW190330008-01 FCC ID: 2ALVF-FRDMI001 Page 49 of 49



--- End of Report