

Report No.: SZAWW190222006-01 FCC ID: 2AJKE-LRELRN Page1 of 36

FCC TEST REPORT

Client Name : Lumen Labs(HK) Limited

Address 25/F, Two Harbour Square, 180 Wai Yip Street, Kwun

Tong, Hong Kong

Product Name : Lumos Remote

Date : Mar. 06, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant Lumen Labs(HK) Limited

Manufacturer Lumen Labs(HK) Limited

Product Name Lumos Remote

Model No. LRELRN-A0

Trade Mark N.A.

Rating(s) Input:DC 5V, 500mA(with DC 3.7V, 90 mAh Battery inside)

Test Standard(s) FCC Part15 Subpart C, Paragraph 15.249

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 Feb. 22, 2019 Date of Test Feb. 22~Mar. 06, 2019 Anbotek Prepared by (Engineer / Oliay Yang) Approved * Reviewer (Supervisor / Snowy Meng) Approved & Authorized Signer (Manager / Sally Zhang)





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1. General Information

1.1. Client Information

Applicant	:	Lumen Labs(HK) Limited
Address	:	25/F, Two Harbour Square, 180 Wai Yip Street, Kwun Tong, Hong Kong
Manufacturer	:	Lumen Labs(HK) Limited
Address	:	25/F, Two Harbour Square, 180 Wai Yip Street, Kwun Tong, Hong Kong
Factory	:	Lumen Labs(HK) Limited
Address	:	25/F, Two Harbour Square, 180 Wai Yip Street, Kwun Tong, Hong Kong

1.2. Description of Device (EUT)

Product Name	:	Lumos Remote	Anbotek Anbotek Anbotek Anb
Model No.	:	LRELRN-A0	tek nbotek Anbotek Anbotek
Trade Mark	:	N.A. otek Anbotek Anb	botek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 3.7V battery inside	Anbotek Anbotek Anbotek Anbotek
Test Sample No.	:	S1(Normal Sample), S2(Engin	eering Sample)
		Operation Frequency:	2455.5MHz
		Number of Channel:	1 Channel
Product Description	:	Modulation Type:	FSK
, , , ,		Antenna Type:	PCB Antenna
		Antenna Gain(Peak):	1 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

200	Adapter	:	Manufacturer: ZTE M/N: STC-A2050I1000USBA-C	Anbotek	Anbotek	ak Anbotek	K Anbo
'n			S/N: 201202102100876				
			Input: 100-240V~ 50/60Hz, 0.3A				LOK P
			Output: DC 5V, 1000mA	Yup.	rek	anbotek A	'upor

Hotline 400-003-0500



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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.

200	Pretest Mode	Description
, k	Mode 1	CH01(TX+ Charging Mode/TX Only)

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.

1.5. List of Channels

1	Channel	Freq.(MHz)			
al.	01	2455.5			

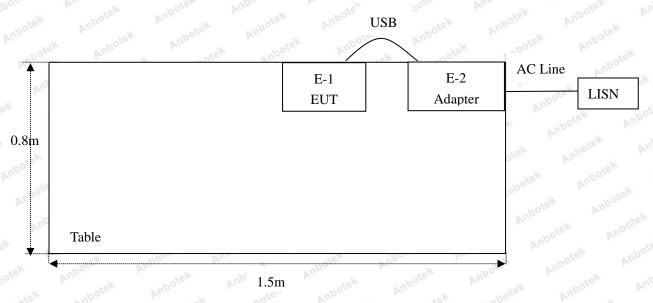


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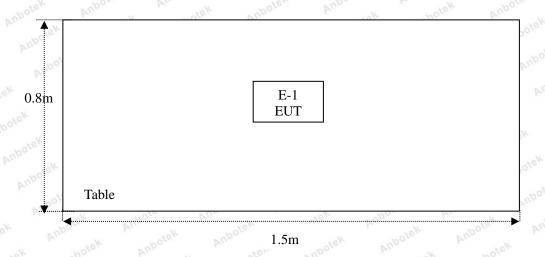
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1.6. Description of Test Setup

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1.7. Test Equipment List

Item	Equipment	Equipment Manufacturer		Serial No.	Last Cal.	Cal.	
nb1 ^{tek}	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	
6.20	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year	
, _{te} /7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year	
nb8.	Bilog Broadband Schwarzbeck		VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year	
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year	
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year	
€ ¹ 11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year	
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A And	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.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year	
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year	
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Apr. 02, 2018	1 Year	
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year	

Code: AB-RF-05-a

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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 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



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2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.249	Radiated Emission	PASS
15.215(c)	20dB Bandwidth	PASS
15.249(c)	Band Edge	PASS
Remark: "N/A" is an abbre	eviation for Not Applicable.	nbotek Anbotek

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3. Conducted Emission Test

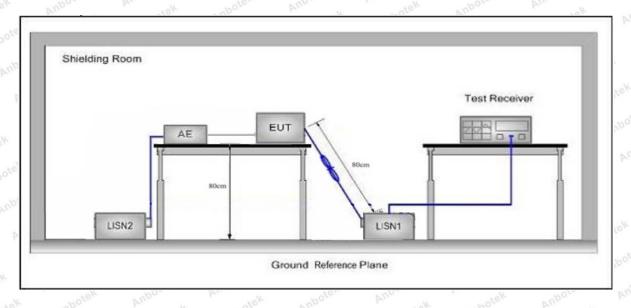
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	207 Anbote And Hotek	Anbotek Anbo					
	Fraguenay	Maximum RF Line Voltage (dBuV)						
	Frequency	Quasi-peak Level	Average Level					
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *					
	500kHz~5MHz	Anborek 56 Anbou	46 oten And					
	5MHz~30MHz	Anbotek 60 Anbotek	50 Abotek 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.

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3.4. Test Data

Please to see the following pages.

Conducted Emission Test Data

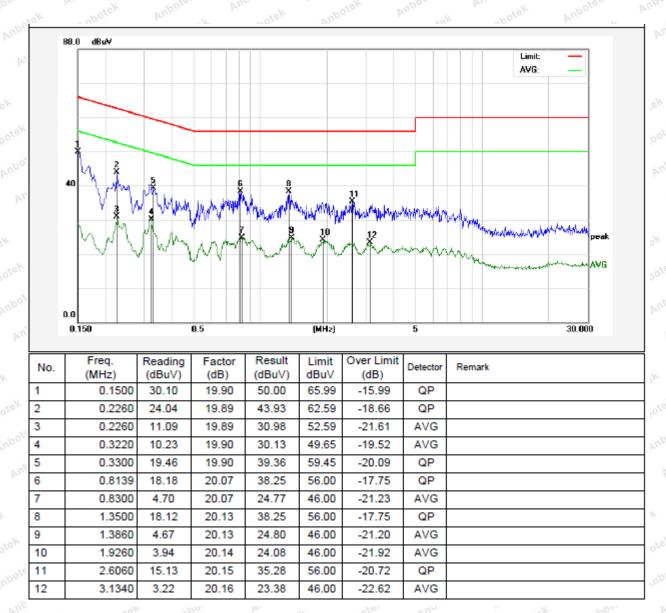
Test Site: 1# Shielded Room

Operating Condition: CH01

Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

Tem.: 20.0℃ Hum.: 65%





Conducted Emission Test Data

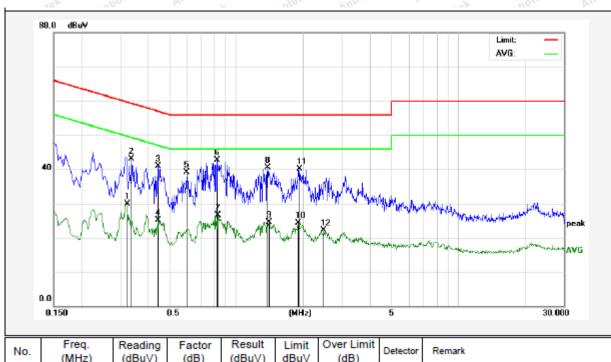
Test Site: 1# Shielded Room

CH01 **Operating Condition:**

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Tem.: 20.0℃ Hum.: 65%



No.	(MHz)	(dBuV)	(dB)	(dBuV)	dBu∀	(dB)	Detector	Remark
1	0.3220	9.95	19.90	29.85	49.65	-19.80	AVG	
2	0.3379	23.20	19.91	43.11	59.25	-16.14	QP	
3	0.4460	20.88	19.96	40.84	56.95	-16.11	QP	
4	0.4460	5.23	19.96	25.19	46.95	-21.76	AVG	
5	0.5980	19.02	20.01	39.03	56.00	-16.97	QP	
6	0.8260	22.58	20.07	42.65	56.00	-13.35	QP	
7	0.8300	6.34	20.07	26.41	46.00	-19.59	AVG	
8	1.3820	20.32	20.13	40.45	56.00	-15.55	QP	
9	1.4100	4.33	20.13	24.46	46.00	-21.54	AVG	
10	1.9060	4.15	20.14	24.29	46.00	-21.71	AVG	
11	1.9380	20.04	20.14	40.18	56.00	-15.82	QP	
12	2.4820	1.91	20.15	22.06	46.00	-23.94	AVG	



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Conducted Emission Test Data

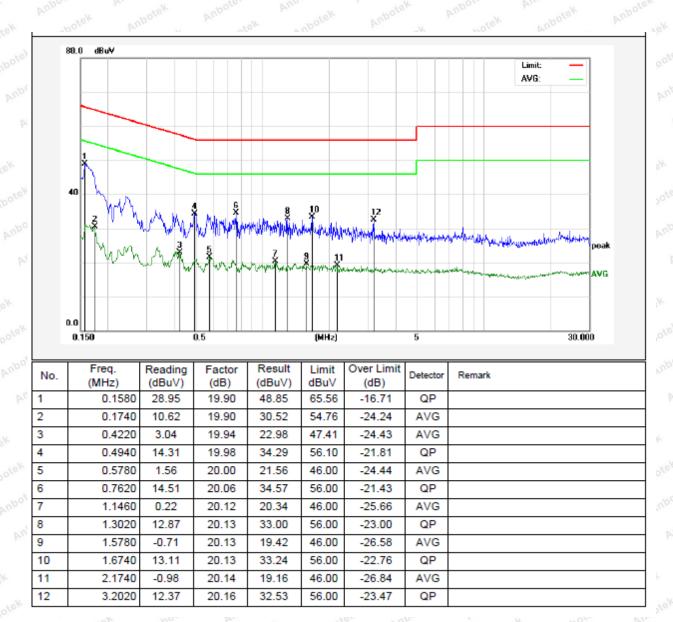
Test Site: 1# Shielded Room

Operating Condition: CH01

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 20.0°C Hum.: 65%





Conducted Emission Test Data

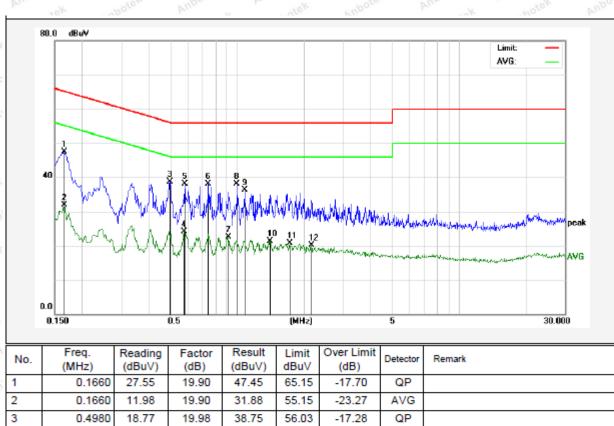
Test Site: 1# Shielded Room

CH01 **Operating Condition:**

AC 120V, 60Hz for adapter Test Specification:

Comment: Neutral Line

Tem.: 20.0℃ Hum.: 65%



No.	(MHz)	(dBuV)	(dB)	(dBuV)	dBu∀	(dB)	Detector	Remark
1	0.1660	27.55	19.90	47.45	65.15	-17.70	QP	
2	0.1660	11.98	19.90	31.88	55.15	-23.27	AVG	
3	0.4980	18.77	19.98	38.75	56.03	-17.28	QP	
4	0.5780	4.14	20.00	24.14	46.00	-21.86	AVG	
5	0.5820	18.12	20.00	38.12	56.00	-17.88	QP	
6	0.7420	18.15	20.05	38.20	56.00	-17.80	QP	
7	0.9140	2.37	20.10	22.47	46.00	-23.53	AVG	
8	0.9980	17.95	20.12	38.07	56.00	-17.93	QP	
9	1.0780	16.09	20.12	36.21	56.00	-19.79	QP	
10	1.4060	1.14	20.13	21.27	46.00	-24.73	AVG	
11	1.7220	0.60	20.13	20.73	46.00	-25.27	AVG	
12	2.1580	-0.12	20.14	20.02	46.00	-25.98	AVG	

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4. Radiated Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15	5.209 and 15.205	Ai. botek	Anboten	Anbourek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	anbotek An	Ose Yun	300
	0.490MHz-1.705MHz	24000/F(kHz)	Mootek	Aupore - Ar	30
	1.705MHz-30MHz	30	Anbotek	Anbor Lok	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3 otek
	88MHz~216MHz	150	43.5	Quasi-peak	ek 3 botek
	216MHz~960MHz	200	46.0	Quasi-peak	Jek 3 nbo
	960MHz~1000MHz	500	54.0	Quasi-peak	atek3
	A h a v a 4000 M l l =	500	54.0	Average	Anbo 3k
	Above 1000MHz	Anbotek - Anbote	74.0	Peak	Anba 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

Test Standard	FCC Part15 (Section 15.249	ik abotek	Anbote	And	Anbotek	
	Frequency (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
Test Limit	2400~2483.5	50	Anboten Anbo	114.0	Peak	inbote 3	
	2400~2483.5	50	Anbotek Ar	94.0	Average	Aupolo 3	
	2400~2483.5	hote An hote	500	74.0	Peak	A113	
	2400~2483.5	Anbore And	500	54.0	Average	3,0016	

Remark:

(1) 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

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Figure 1. Below 30MHz

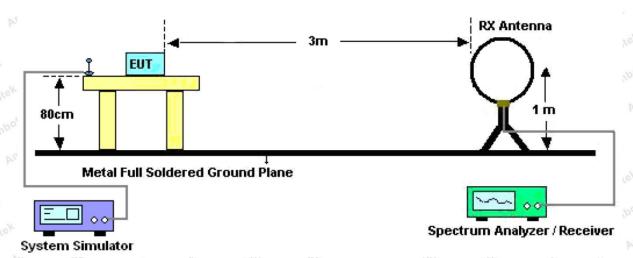


Figure 2. 30MHz to 1GHz

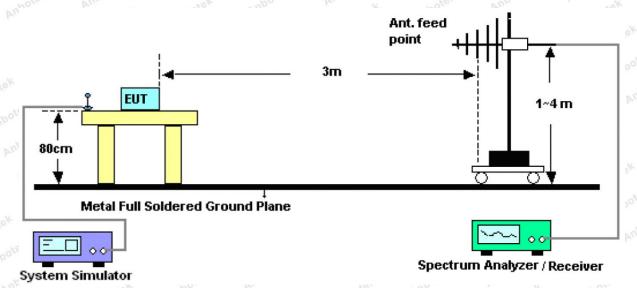
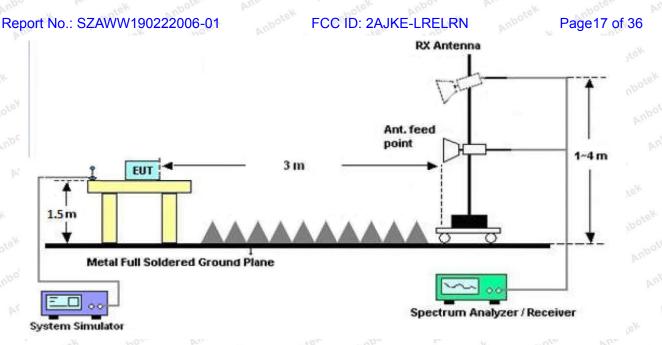


Figure 3. Above 1 GHz





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.

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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 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 the mode, and found the TX only Mode which is the worst case, only the worst case is recorded in the report

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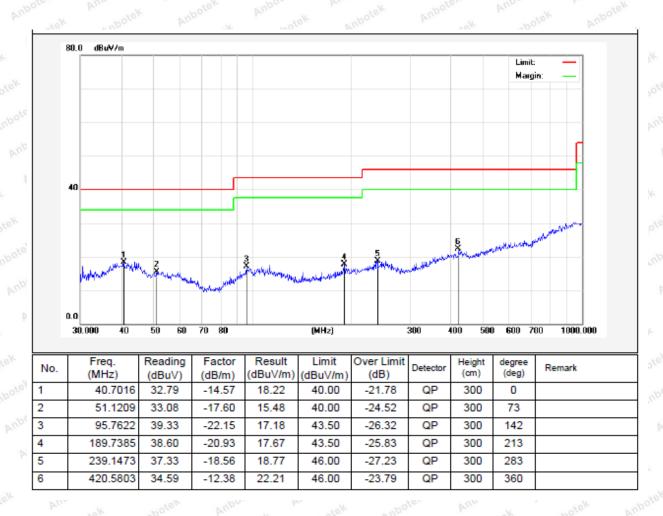
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Test Results (30~1000MHz)

Job No.: SZAWW190222006 -01 Temp.(°C)/Hum.(%RH): 24.6°C/55%RH

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

Test Mode: Mode 1 Polarization: Horizontal





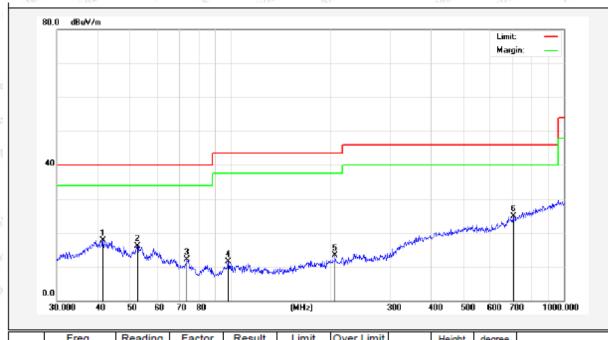
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Test Results (30~1000MHz)

SZAWW190222006 -01 Temp.(°C)/Hum.(%RH): Job No.: 24.6°C/55%RH

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

Test Mode: Mode 1 Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	41.2764	31.42	-13.74	17.68	40.00	-22.32	QP	300	0	
2	52.3912	32.83	-16.65	16.18	40.00	-23.82	QP	300	72	
3	73.8756	33.53	-21.42	12.11	40.00	-27.89	QP	300	143	
4	98.1419	27.41	-15.94	11.47	43.50	-32.03	QP	300	201	
5	205.6750	29.08	-15.71	13.37	43.50	-30.13	QP	300	283	
6	704.2260	33.18	-8.35	24.83	46.00	-21.17	QP	300	360	

Code: AB-RF-05-a

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Test Results (1GHz-25GHz)

Test Mode:	CH01								
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.	Detecto r
2455.5000	95.16	31.12	2.20	34.51	93.97	114.00	-20.03	V	Peak
2455.5000	84.57	31.22	2.20	34.51	83.48	94.00	-10.52	V V	AVG
4911.0000	50.80	34.98	2.49	34.14	54.13	74.00	-19.87	V	Peak
4911.0000	38.43	34.98	2.49	34.14	41.76	54.00	-12.24	V	AVG
7366.5000	47.22	36.01	3.01	34.56	51.68	74.00	-22.32	V	Peak
7366.5000	38.54	36.01	3.01	34.56	43.00	54.00	-11.00	A.p.o	AVG
9822.0000	Anbotel	Anbo	k nbote	K AN	oore. b	hotek (m)	Anbotek	P _L	por
12277.5000	Ar*otek	Anbo	16K "UL	otek	Anboto. K	Am	Anbot	. K	Anbor
14733.0000	8.8	AUD	rek	nbotek	Anboten	Pun.	rek an	otek	Anbolo
17188.5000	rek * Anb	otek p	Upo	abotek	Anbote	K NUM	-otek	Inpotek	Anb
2455.5000	95.77	31.12	2.20	34.51	94.58	114.00	-19.42	Hool	Peak
2455.5000	84.61	31.12	2.20	34.51	83.42	94.00	-10.58	H	AVG
4911.0000	47.27	34.98	2.49	34.14	50.60	74.00	-23.40	« H	Peak
4911.0000	41.65	34.98	2.49	34.14	44.98	54.00	-9.02	oteH	AVG
7366.5000	48.79	36.01	3.01	34.56	53.25	74.00	-20.75	Hek	Peak
7366.5000	36.06	36.01	3.01	34.56	40.52	54.00	-13.48	H	AVG
9822.0000	poter * A	up- otek	Anbotek	Aupon	rok bus	hotek	Anbotek	Anbo	atek A
12277.5000	Anbotek	Anna	Anbotel	Anh	or Pr	hotek	Anbotek	Ani	or otek
14733.0000	Ankotok	Pupo	lek vup.	Jek I	upole	Pur	Anbote		Aupo.
17188.5000	*nbote*	Anbe	stek A.	obotek	Aupore	Pun	ak Anb	otel.	Aupor

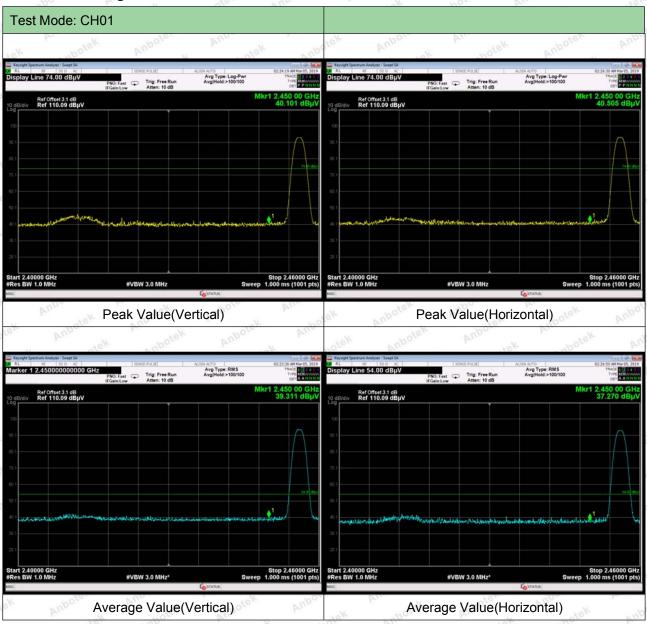
Note:

- 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.



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Radiated Band Edge:

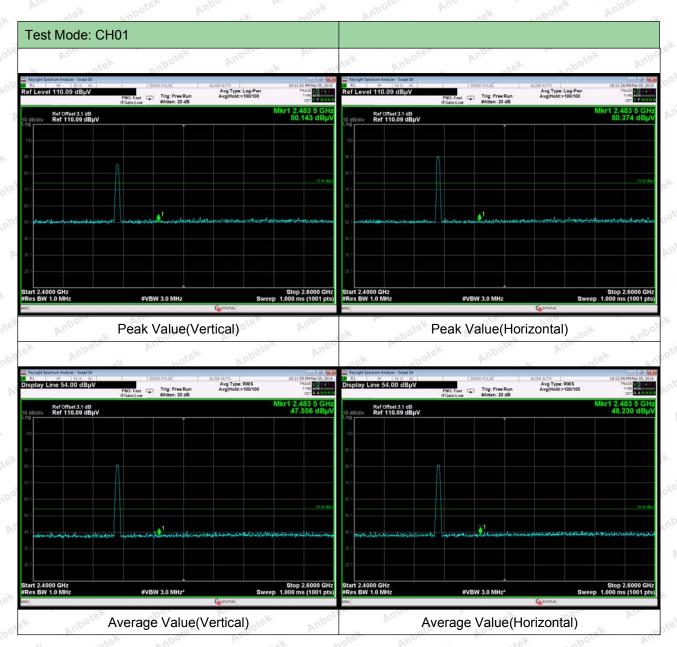


Remark:

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



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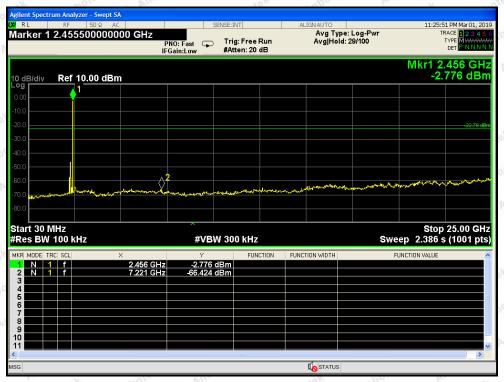
Remark:

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



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CH 01



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5. 20dB Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.249	Ans	botek	Anbo. A
	Ole Value			-10h

5.2. Test Setup



5.3. 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= Average

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and -20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

5.4. Test Data

Test Item : 20dB Bandwidth Test Mode : Mode 1 Test Voltage : DC 3.7V battery inside Temperature : 22.9° C Test Result : PASS Humidity : 53%RH

Frequency (MHz)	Bandwidth (kHz)	Result		
2455.5MHZ	1874	PASS		



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Test Mode: CH 01



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6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
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

6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 1 dBi. It complies with the standard requirement.



www.anbotek.com

400-003-0500



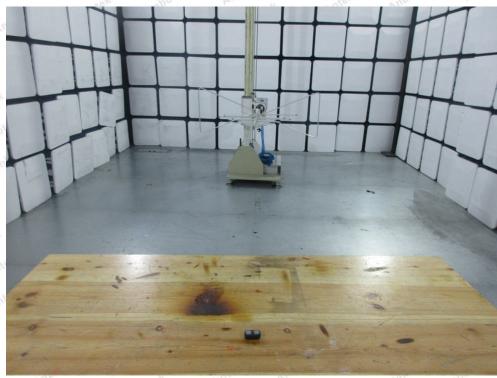
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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test



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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

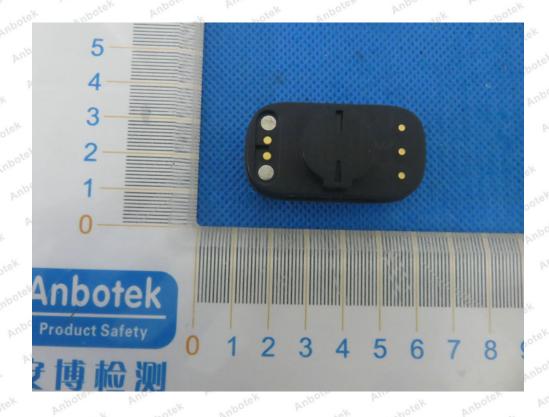






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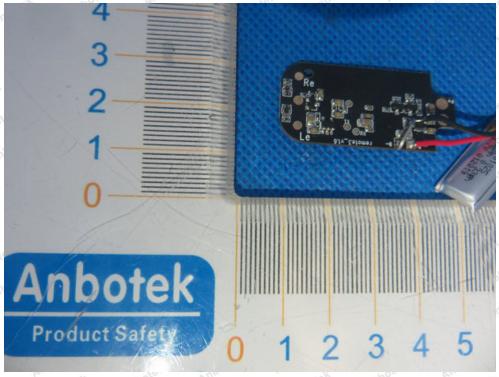




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APPENDIX III -- INTERNAL PHOTOGRAPH





Shenzhen Anbotek Compliance Laboratory Limited

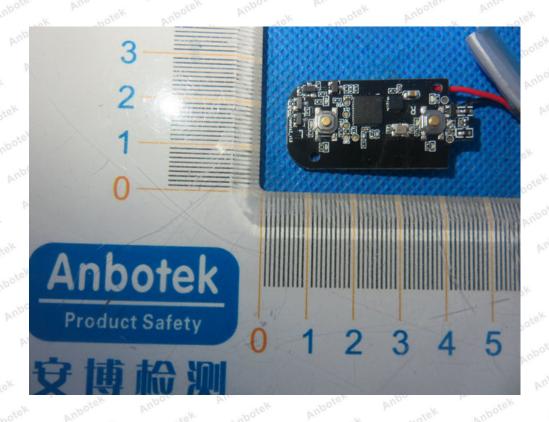
Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

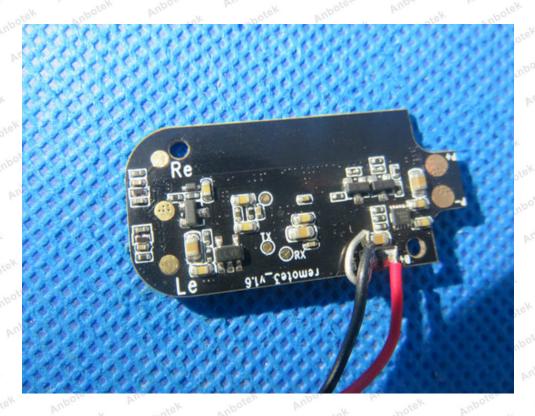
Tel:(86)755–26066440 Fax:(86)755–26014772 Email:service@anbotek.com





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-- End of Report -

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