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FCC TEST REPORT

Client Name : ShenZhen Targetever Technology Co.,Ltd.

Address Floor 11-12, Building 8, Lian Hua Industrial Park, Long Yuan

Road, LongHua New District, ShenZhen, China

Product Name : Audio Adapter For Switch

Date : Apr. 23, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : ShenZhen Targetever Technology Co.,Ltd.

Manufacturer : ShenZhen Targetever Technology Co.,Ltd.

Product Name : Audio Adapter For Switch

Model No. : C51, BGK481, DG04

Trade Mark : N.A.

Rating(s) : Input: DC 5V, 2.4A / DC 15V, 2.6A

Output: DC 5V, 2.0A/ DC 15V, 2.0A

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

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

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

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

Date of Receipt	Apr. 04, 2019
Date of Test	Apr. 04~15, 2019
Date of Test Anbotek Anbotek	
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Prepared by *Approved*	potek An Lek hotek Anbote Anti
boo tok Ann botek	(Engineer / Oliay Yang)
	Anbotek Anbotek Anbotek
	Snavy Meng
	Snawy Mery
Reviewer	And Andrew Anbore An
eek Anbotek Anbotek Anbote Anb	(Supervisor / Snowy Meng)
	notek Anbote Anbotek An
	Sally Zhong
Approved & Authorized Signer	Amb tek Stek Spote Am Otek
Anbotek Anbotek Anbotek Anbotek	(Manager / Sally Zhang)



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1. General Information

1.1. Client Information

Applicant	: ShenZhen Targetever Technology Co.,Ltd.
Address	Floor 11-12,Building 8,LianHua Industrial Park, LongYuan Road,LongHua New District, ShenZhen, China
Manufacturer	: ShenZhen Targetever Technology Co.,Ltd.
Address	Floor 11-12,Building 8,LianHua Industrial Park, LongYuan Road,LongHua New District, ShenZhen, China
Factory	: ShenZhen Targetever Technology Co.,Ltd.
Address	Floor 11-12,Building 8,LianHua Industrial Park, LongYuan Road,LongHua New District, ShenZhen, China

1.2. Description of Device (EUT)

Product Name	:	Audio Adapter For Switch	
Model No.	:	C51, BGK481, DG04 (Note: All samples are the samtest only.)	ne except the name, so we prepare "C51" for
Trade Mark	:	N.A. Anbotek	Anbotek Anbotek Anbotek An
Test Power Supply	:	AC 240V, 60Hz for adapter/ A	C 120V, 60Hz for adapter
Test Sample No.	:	S1(Normal Sample), S2(Engin	eering Sample)
		Operation Frequency:	2402MHz~2480MHz
		Transfer Rate:	1/2/3 Mbits/s
Product		Number of Channel:	79 Channels
Description		Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK
		Antenna Type:	PCB Antenna
		Antenna Gain(Peak):	0 dBi potek Anbotek Anbotek Anbotek

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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1.3. Auxiliary Equipment Used During Test

Manufacturer: Lenovo

Model: PA-1650-16I

Adapter : S/N:11S92P1158Z1ZD2HISKOL4

Input: 100V-240V~ 50/60Hz, 1.5A

Ouput: DC 5V, 2.4A

1.4. Description of Test Modes

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

TEST MODE:

Mode 1	Anbotek Anbotek	CH00	Anboten Anbo Anbo
Mode 2	GFSK	CH39	Anbotes Anb botek
Mode 3	Anbore An abotek Anbr	CH78	Anbore And And
Mode 4	Anbo. Anbotek A	CH00	TV: Oleven Market
Mode 5	π/4-DQPSK	CH39	TX+ Charging Mode/ TX Only
Mode 6	Anbotek Anbotek	CH78	And And Andrew
Mode 7	Jote And hotek Anbotek	CH00	Anbotek Anbo otek A.
Mode 8	8-DPSK	CH39	Anbote, Anbo hotek
Mode 9	Aupora Au	CH78	tek Anbote And botek

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.

Hotline 400-003-0500 www.anbotek.com



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1.5. List of channels

be.		76,	- up	F _V		200 100		191	200
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
00	2402	17	2419	34	2436	51	2453	68,,,,,,	2470
01	2403	18	2420	35	2437	52	2454	69	2471
02	2404	19	2421	36	2438	53	2455	70	2472
03	2405	20	2422	37	2439	54	2456	71	2473
04	2406	21	2423	38	2440	55	2457	72	2474
05	2407	22	2424	39	2441	56	2458	73	2475
05	2408	23	2425	40	2442	57	2459	xe¥ 74	2476
07	2409	24 📈	2426	41	2443	58	2460	75	2477
08	2410	25	2427	42	2444	59 And	2461	76	2478
09	2411	26	2428	43	2445	60	2462	77	2479
10	2412	27	2429	44	2446	61	2463	78	2480
11	2413	28	2430	45	2447	62	2464		ootek
12 ×	2414	29	2431	46	2448	63	2465		
13	2415	30 p	2432	47 tek	2449	64 🗥	2466		
14 ^{nbox}	2416	31	2433	48	2450	o ^{tel} 65	2467		100
15 An	2417	32	2434	49	2451	66	2468		N N
16	2418	33	2435	50	2452	67	2469		,01eX

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

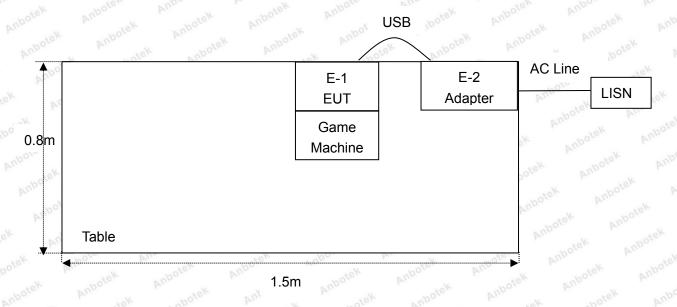
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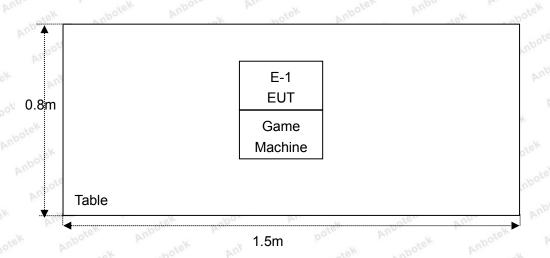
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1.6. Description Of Test Setup

CE



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1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
nb 1 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
nboten 5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6,,,,,	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
, 7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
, 58.	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	A-INFO	LB-180400- KF	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	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	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





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1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Ho	orizontal)	otek an	botek A	hoter And
		Ur = 3.8 dB (Ve	ertical)			Anbore Ar
		Andotek	Anboten	Anbo	Anbotek	Auport
Conduction Uncertainty	:	Uc = 3.4 dB	Anbote	k And hotek	Anbotek	Aupor

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

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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)	Hopping Channel Number	PASS
15.247(a)(1)	Dwell Time	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbr	eviation for Not Applicable.	potek Anbou Al



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3. Conducted Emission Test

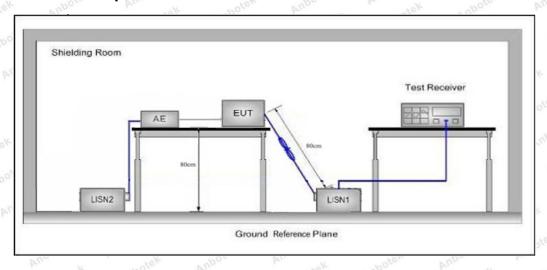
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.	207 Anbotes Anbotek	Anbotek Anbote A				
Test Limit	Francisco	Maximum RF Line Voltage (dBuV)					
	Frequency	Quasi-peak Level	Average Level				
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
	500kHz~5MHz	56	46 oten And				
	5MHz~30MHz	Annotek 60 Annote	Andrew 50 About A				

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

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

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

The frequency range from 150kHz to 30MHz is checked

3.4. Test Data

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

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Conducted Emission Test Data

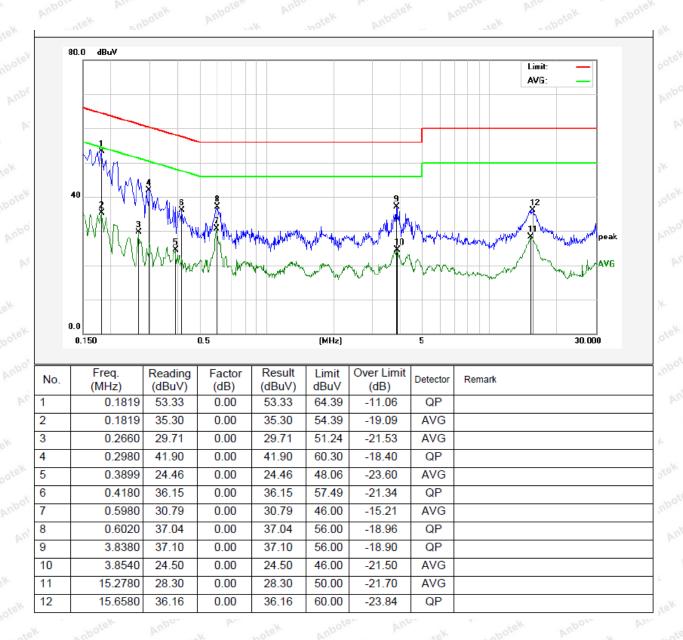
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

Tem.: 23.8℃ Hum.: 56%





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Conducted Emission Test Data

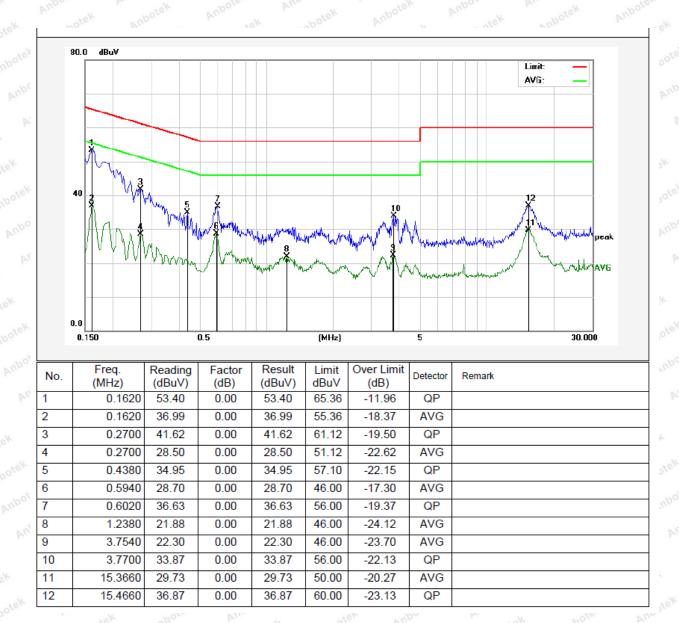
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Tem.: 23.8℃ Hum.: 56%





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Conducted Emission Test Data

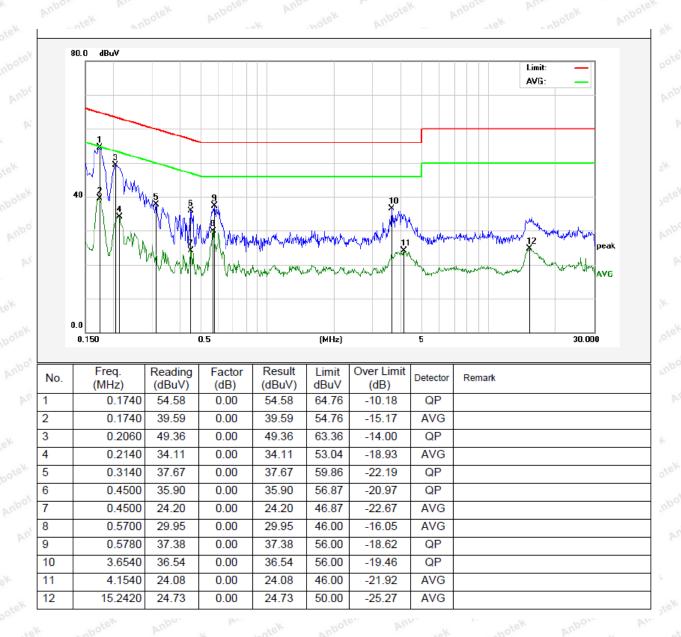
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 23.8℃ Hum.: 56%





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Conducted Emission Test Data

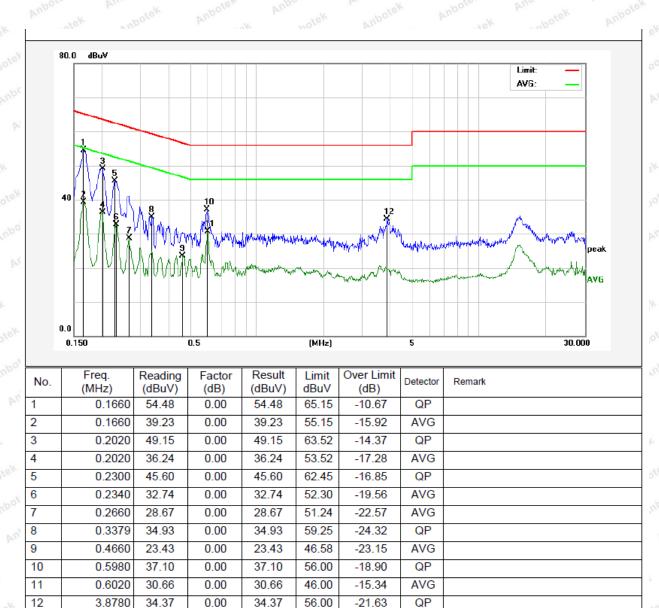
Test Site: 1# Shielded Room

Operating Condition: CH00

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 23.8℃ Hum.: 56%





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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 1	15.209 and 15.205	And	Anbotek	Anbore Ar
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	nbotek- Anl	ote. Anv	300
	0.490MHz-1.705MHz	24000/F(kHz)	An apotok	Yupoler AL	30
	1.705MHz-30MHz	30	Anbotek	Anbole.	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	And 3 otek
	88MHz~216MHz	150	43.5	Quasi-peak	3 botek
	216MHz~960MHz	200	46.0	Quasi-peak	3 abot
ō	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	Anbox 3
	Above 1000MHz	Anbotek - Anbote	74.0	Peak	Anboa 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

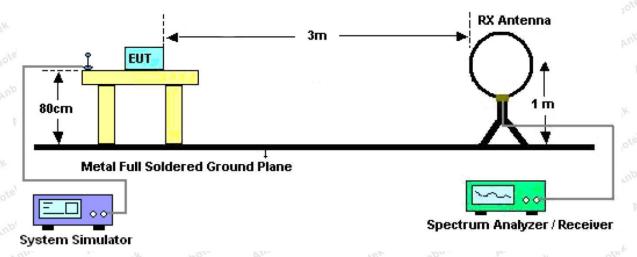


Figure 1. Below 30MHz



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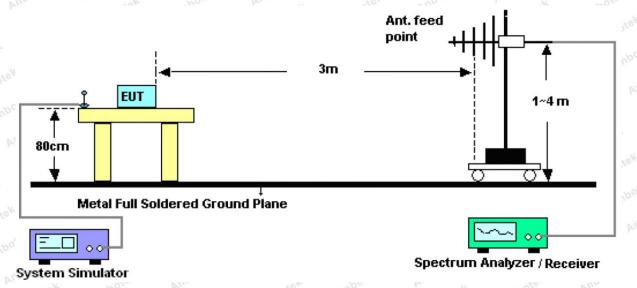


Figure 2. 30MHz to 1GHz

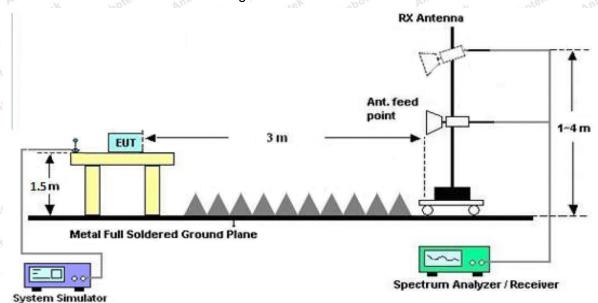


Figure 3. Above 1 GHz

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.

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

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



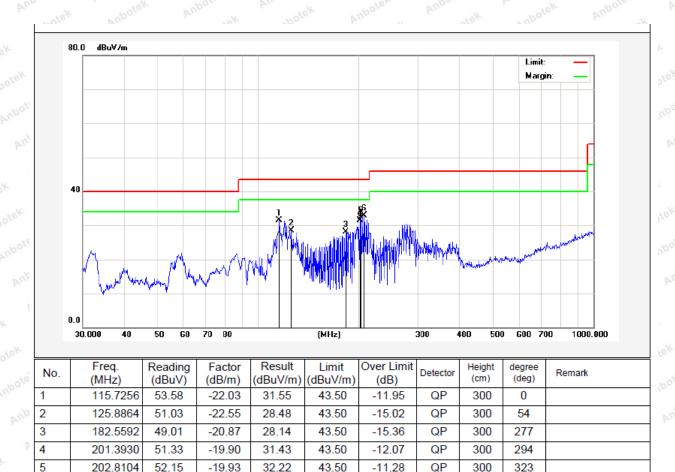
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Test Results (30~1000MHz)

SZAWW190404001-01 Job No.: Temp.(°C)/Hum.(%RH): 20.4°C/51%RH

Power Source: Standard: FCC PART 15C AC 240V, 60Hz for adapter

Test Mode: Mode 1 Polarization: Horizontal



43.50

-10.64

QP

300

360

Code: AB-RF-05-a

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6

207.1226

52.88

-20.02

32.86



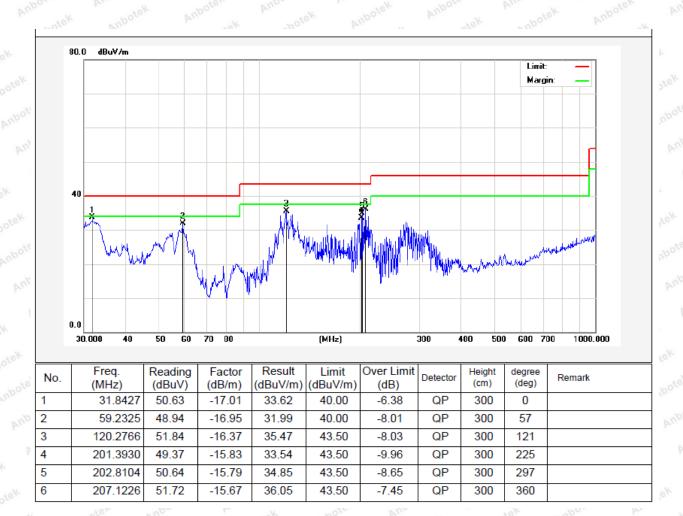
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Test Results (30~1000MHz)

Job No.: SZAWW190404001-01 Temp.(℃)/Hum.(%RH): 20.4℃/51%RH

Standard: FCC PART 15C Power Source: AC 240V, 60Hz for adapter

Test Mode: Mode 1 Polarization: Vertical



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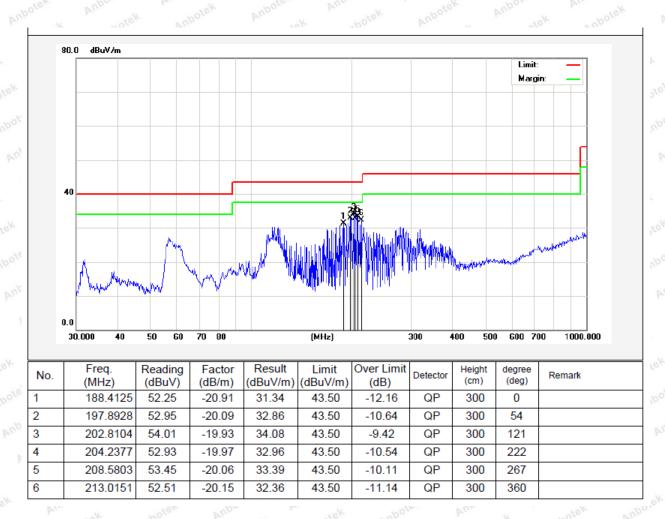
Report No.: SZAWW190404001-01 FCC ID: 2AEBY-C51 Page 22 of 60

Test Results (30~1000MHz)

SZAWW190404001-01 Job No.: Temp.(°C)/Hum.(%RH): 20.4°C/51%RH

Standard: FCC PART 15C Power Source: AC 120V, 60Hz for adapter

Test Mode: Mode 1 Polarization: Horizontal





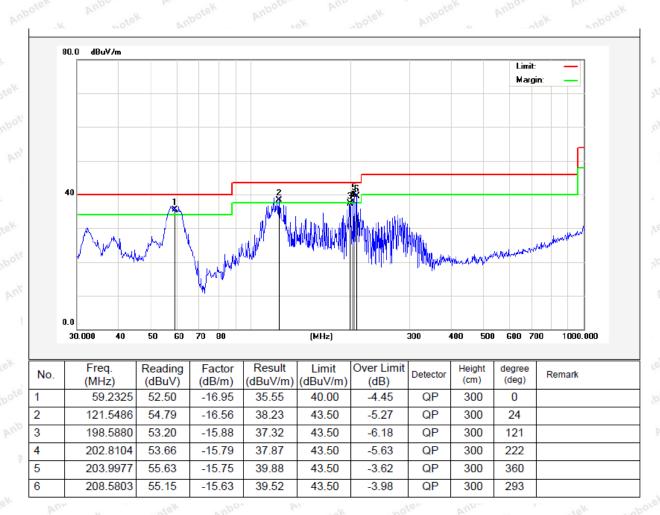
Report No.: SZAWW190404001-01 FCC ID: 2AEBY-C51 Page 23 of 60

Test Results (30~1000MHz)

SZAWW190404001-01 Job No.: Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 20.4°C/51%RH

FCC PART 15C Standard: Power Source: AC 120V, 60Hz for adapter

Test Mode: Mode 1 Vertical Polarization:



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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	38.48	34.04	6.58	34.09	45.01	74.00	-28.99	~~V ^K
7206.00	32.61	37.11	7.73	34.50	42.95	74.00	-31.05	V
9608.00	32.16	39.31	9.23	34.79	45.91	74.00	-28.09	V
12010.00	rek * Aup.	18K	abotek	Anboten	Anbo	74.00	Anboro	V
14412.00	ibotek * A	Upor Lek	Abotek	Anbotek	Anbo	74.00	Aupor	V
4804.00	43.01	34.04	6.58	34.09	49.54	74.00	-24.46	H
7206.00	34.47	37.11	7.73	34.50	44.81	74.00	-29.19	upote.
9608.00	31.70	39.31	9.23	34.79	45.45	74.00	-28.55	Aubo
12010.00	ek * Anbo	iek bi	bor by	hotek	Anbotek	74.00	a nbotek	H.C
14412.00	otek *	botek	Aupore	Annabotek	Anbotek	74.00	anbote	Н
			A۱	erage 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	27.07	34.04	6.58	34.09	33.60	54.00	-20.40	V
7206.00	21.16	37.11	7.73	34.50	31.50	54.00	-22.50	V
9608.00	20.17	39.31	9.23	34.79	33.92	54.00	-20.08	V
12010.00	Anbotek	Aupor	hotek	Anbote	Anbo	54.00	lek Pupe	V
14412.00	Vupatek	Auporo	N NOT	ak Anb	Yer Yup	54.00	votek A	V
4804.00	31.43	34.04	6.58	34.09	37.96	54.00	-16.04	VU/OF
7206.00	23.41	37.11	7.73	34.50	33.75	54.00	-20.25	H
9608.00	19.99	39.31	9.23	34.79	33.74	54.00	-20.26	Н
12010.00	otel*	nbotek	Aupote	Anv	Anbotek	54.00	6K 200	ek H
14412.00	Aupo *ek	anbotek	Amboto	K M	lek Anbo	54.00	rek br.	botek



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Test Results (1GHz-25GHz)

Test Mode: CH39					Test channel: Middle					
			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.		
4882.00	37.24	34.38	6.69	34.09	44.22	74.00	-29.78	~ V ^K		
7323.00	31.78	37.22	7.78	34.53	42.25	74.00	-31.75	V		
9764.00	31.43	39.46	9.35	34.80	45.44	74.00	-28.56	V		
12205.00	rek * Wup.	16K	nbotek	Anbotes	And	74.00	Aupore	v V		
14646.00	hotek * A	Upor Lek	Abotek	Anbotek	K Villa	74.00	Aupon	V		
4882.00	41.51	34.38	6.69	34.09	48.49	74.00	-25.51	H		
7323.00	33.53	37.22	7.78	34.53	44.00	74.00	-30.00	upote		
9764.00	30.84	39.46	9.35	34.80	44.85	74.00	-29.15	AUDO,		
12205.00	ek * anbo	ick by	bor by	-botek	Anbotek	74.00	nbotek	HS		
14646.00	otek *	botek	Aupor	Annabotek	Anbotek	74.00	anbote	Н		
			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.		
4882.00	26.08	34.38	6.69	34.09	33.06	54.00	-20.94	V		
7323.00	20.49	37.22	7.78	34.53	30.96	54.00	-23.04	V		
9764.00	19.57	39.46	9.35	34.80	33.58	54.00	-20.42	V		
12205.00	Anbotek	Aupor	potek.	Anbote	Anb	54.00	ek Aupe	V		
14646.00	Vupalek	Aupore	N NOT	anb	sey, Vup,	54.00	ootek A	V		
4882.00	30.30	34.38	6.69	34.09	37.28	54.00	-16.72	MUAGE		
7323.00	22.66	37.22	7.78	34.53	33.13	54.00	-20.87	H		
9764.00	19.29	39.46	9.35	34.80	33.30	54.00	-20.70	Н		
12205.00	otel*	nbotek	Pupote.	Anv	Anbotek	54.00	N 700	iek H		
14646.00	Aupo *	spotek	Anboten	N Nun	tek vupo	54.00	Pr.	hotek		



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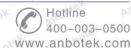
Test Results (1GHz-25GHz)

Test Mode: CH78					channel: Hig	hest		
			F	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	36.28	34.72	6.79	34.09	43.70	74.00	-30.30	NOOVK
7440.00	31.15	37.34	7.82	34.57	41.74	74.00	-32.26	Vote
9920.00	30.86	39.62	9.46	34.81	45.13	74.00	-28.87	V
12400.00	rek * Aup	18K	nbotek	Anboren	And	74.00	Anbore	ν V
14880.00	botek * P	Upor Kek	A botek	Anboren	Anbe	74.00	Aupor	V
4960.00	40.36	34.72	6.79	34.09	47.78	74.00	-26.22	H
7440.00	32.82	37.34	7.82	34.57	43.41	74.00	-30.59	rupote H
9920.00	30.19	39.62	9.46	34.81	44.46	74.00	-29.54	Anbore
12400.00	ek * Anbo	ick bu	bor by	hotek	Anbotek	74.00	nbotek	Hup
14880.00	otek *	botek	Aupor	Andotek	Anbotek	74.00	nbote	НР
1.00	N		A۱	verage Valu	е	1.11*	1535	
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	25.35	34.72	6.79	34.09	32.77	54.00	-21.23	V
7440.00	19.99	37.34	7.82	34.57	30.58	54.00	-23.42	V
9920.00	19.13	39.62	9.46	34.81	33.40	54.00	-20.60	V
12400.00	Anbotek	Aupor	An botek	Anbote	Antio	54.00	ek Aupr	V
14880.00	Anb*tek	Auporo	ok hop	ak Anbo	Ven Vup.	54.00	ootek A	V V
4960.00	29.47	34.72	6.79	34.09	36.89	54.00	-17.11	AUA HEL
7440.00	22.10	37.34	7.82	34.57	32.69	54.00	-21.31	Hipo
9920.00	18.78	39.62	9.46	34.81	33.05	54.00	-20.95	Ны
12400.00	rel*	nbotek	Pupote -K	Ann	Anbotek	54.00	N 200	iek H
14880.00	* * * *	abotek	Anboten	K NU	tek Anbo	54.00	· ok	Herod

Remark:

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

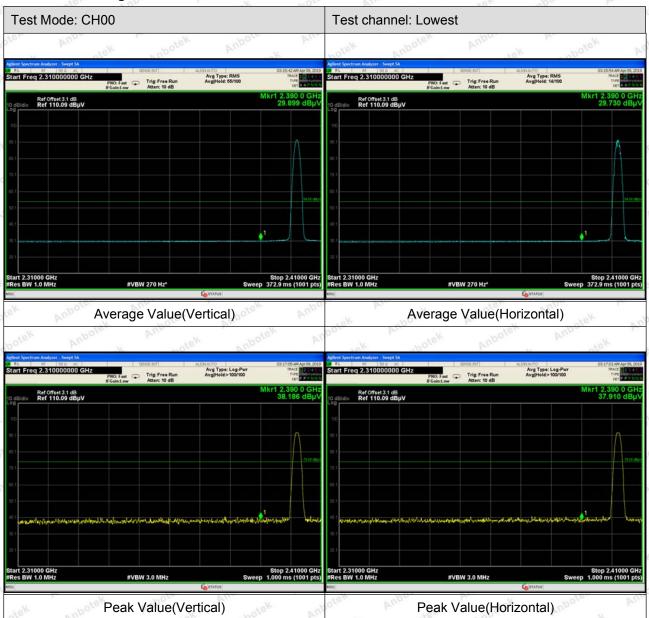
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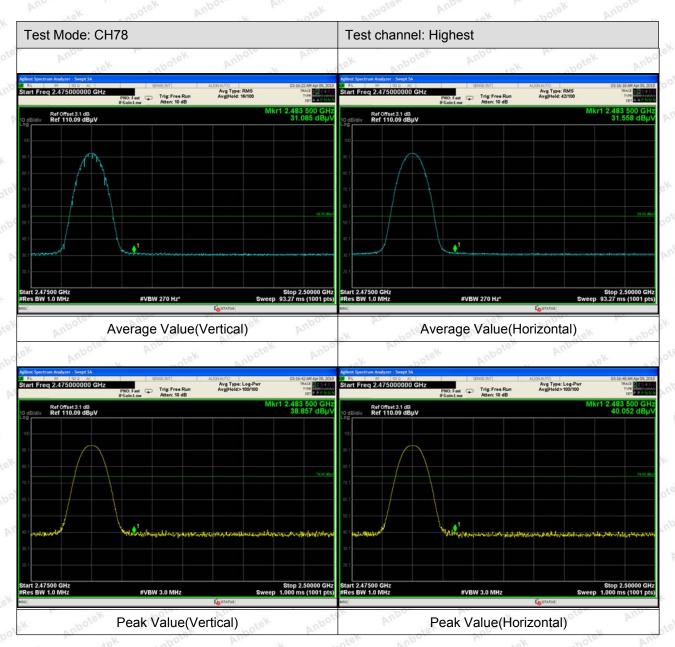
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Radiated Band Edge:





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Remark:

- 1. During the test, pre-scan the GFSK, π /4QPSK, 8DPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2. Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor



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5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15	C Section 15.	247 (b)(3)	Aupo	A. anbotek	Anbote.	PW
Test Limit	125mW	Air	Anbotek	Anbo	hotek	Anbole	.V.

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

Test Item	:	Max. peak output power	Test Mode	:	CH Low ~ CH High
Test Voltage		AC 120V 60Hz for adapter	Temperature		24℃

Test Result : PASS Humidity : 55%RH

Channel Frequency	Peak Power output	Limit	Dogulto	Madulation	
(MHz)	(dBm)	(dBm)	Results	Modulation	
2402	-2.175	20.96	PASS	BDR	
2441	-2.212	20.96	PASS	BDR	
2480	-3.246	20.96	PASS	BDR	
2402	-3.610	20.96	PASS	EDR	
2441	-3.445	20.96	PASS	EDR	
2480	-5.039	20.96	PASS	EDR	

Remark: The EDR was tested on (π /4QPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages.

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Test Mode: BDR---Low

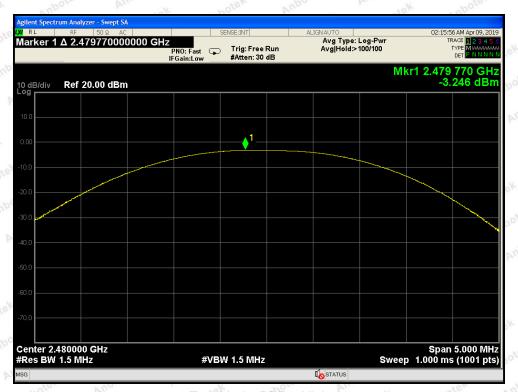


Test Mode: BDR---Middle

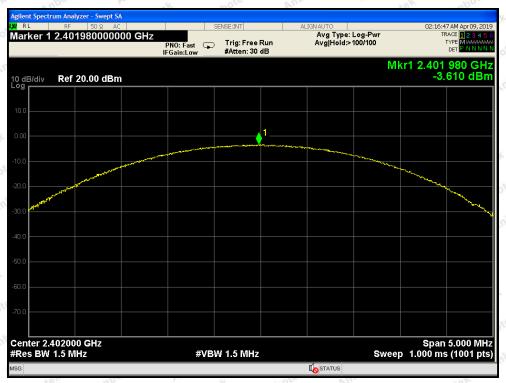
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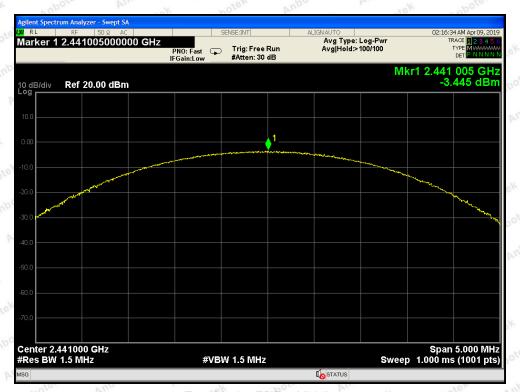
Test Mode: BDR---High



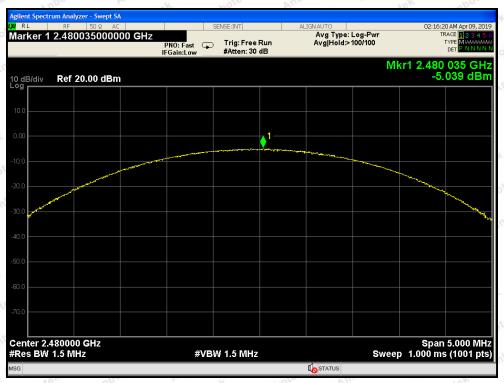
Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



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6. 20DB Occupy Bandwidth Test

6.1. Test Standard

Test Standard	FCC Part15 C Section 15.247 (a)(1)	And	hotek	Anbore A
	Yer Was			

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 = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

6.4. Test Data

Test Item : 20dB BW Test Mode : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature : 24° C Test Result : PASS Humidity : 55%RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
nbotek Low Mabote	2402	852.2	BDR
Middle	2441	846.6	BDR
High	2480	840.6	Ambolia BDR Amb
Low	2402	1205	EDR
Middle	2441	1206	EDR
abotek High Anbotek	2480	1212	nbotel EDR

Remark: The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

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Test Mode: BDR---Low



Test Mode: BDR---Middle

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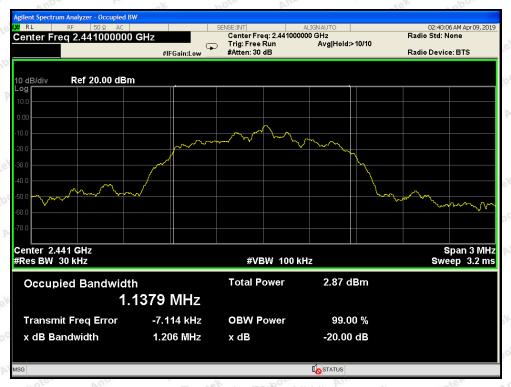
Test Mode: BDR---High



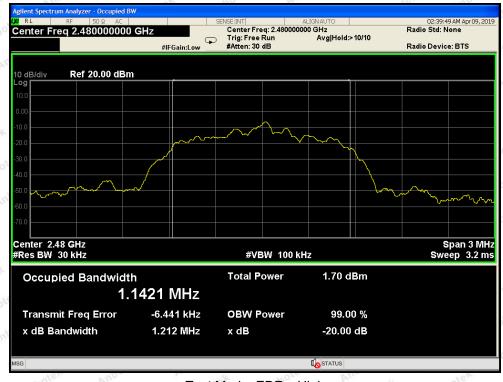
Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



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7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbotek	Anbote Ar
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbotek	Anbor

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 = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

7.4. Test Data

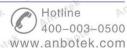
Test Item	:	Frequency Separation	Test Mode	:	CH Low ~ CH High
Test Voltage	:	AC 120V, 60Hz for adapter	Temperature	:	24 ℃
Test Result	:	PASS	Humidity	:	55%RH

Channel	Frequency	Separation Read	Limit	Modulation	
Channel	(MHz)	Value (kHz)	(kHz)	Mode	
potek Low	2402	1000	852.2	BDR	
Middle	2441	1000	846.6	BDR	
Anbot High	2480	1000	840.6	BDR	
An Low A	2402	1000	803.3	EDR	
Middle	2441	1000	804.0	EDR	
High	2480	1000	808.0	EDR	

Remark: 1. The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

2. The limit of mode (EDR) is 2/3 of 20dB BW.

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Test Mode: BDR---Low



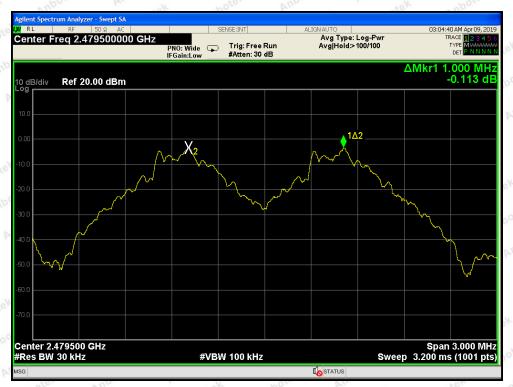
Test Mode: BDR---Middle

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Test Mode: BDR---High



Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



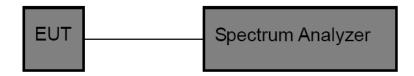
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8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C S	Section 15.2	247 (a)(1)	Ann	Anbotek	Anbore An
Test Limit	>15 channels	hotek	Anbote.	And	Anbotek	Anbor

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

8.4. Test Data

Test Item : Number of Hopping Frequency Test Mode : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature : 24° C Test Result : PASS Humidity : 55%RH

Hopping Channel Frequency	Quantity of Hopping Channel	Quantity of Hopping Channel	
Range	Quantity of Hopping Chainlei		
2402-2480MHz	And ak 79 hotek And	>15	

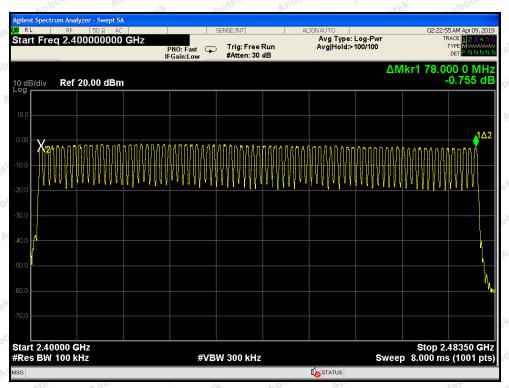
Remark: The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

Code:AB-RF-05-a

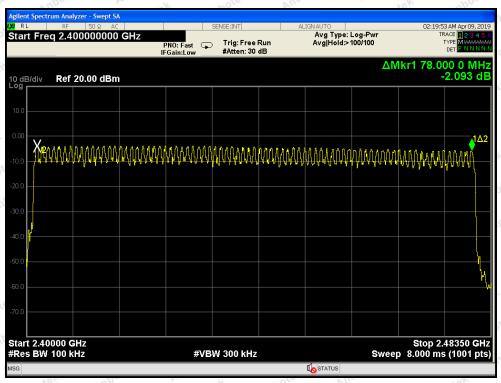
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BDR Mode



EDR Mode



9. Dwell Time Test

9.1. Test Standard and Limit

Test Standard	FCC Part15 (C Section 15.2	247 (a)(1)	Androtek	Anbotek	Anbott A
Test Limit	0.4 sec	A. nbotek	Anbote.	Ann	Anbotek	Anbor

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 = 1 MHz.
- 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

Test Mode CH Low ~ CH High Test Item Time of Occupancy

Test Voltage AC 120V, 60Hz for adapter Temperature 24°C Test Result **PASS** Humidity 55%RH

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.398	time slot length *1600/2 /79 * 31.6	127.36	0.4	BDR
DH3	1.655	time slot length *1600/4 /79 * 31.6	264.80	0.4	BDR
DH5	2.904	time slot length *1600/6 /79 * 31.6	309.76	0.4	BDR
3DH1	0.410	time slot length *1600/2 /79 * 31.6	131.20	0.4	EDR
3DH3	1.660	time slot length *1600/4 /79 * 31.6	265.60	0.4	EDR
3DH5	2.912	time slot length *1600/6 /79 * 31.6	310.61	0.4	EDR

Remark: The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

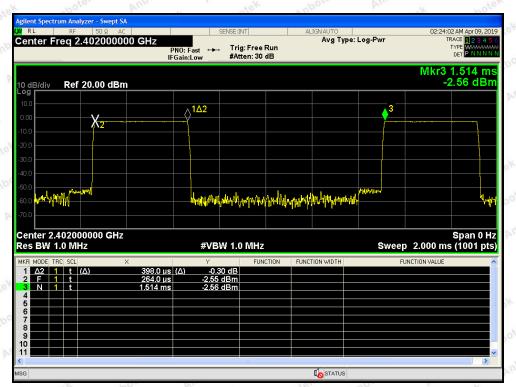
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Code: AB-RF-05-a

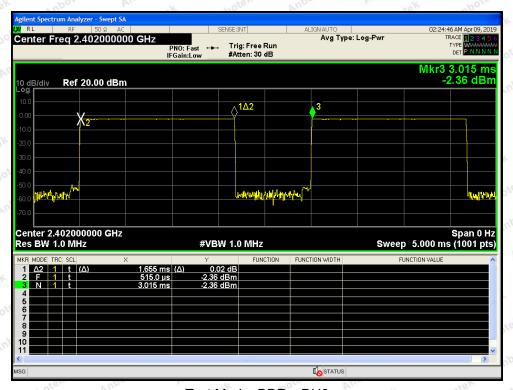
400-003-0500



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Test Mode: BDR---DH1



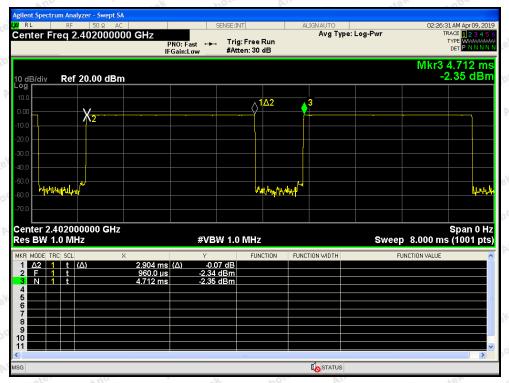
Test Mode: BDR---DH3

Code: AB-RF-05-a

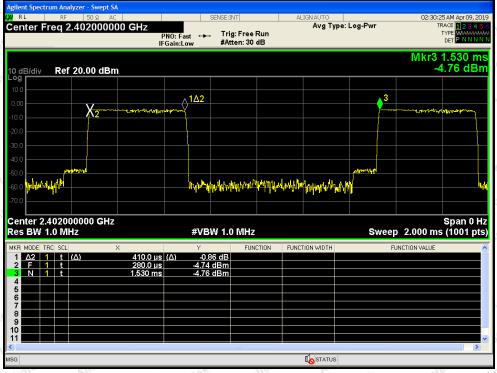
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Test Mode: BDR---DH5



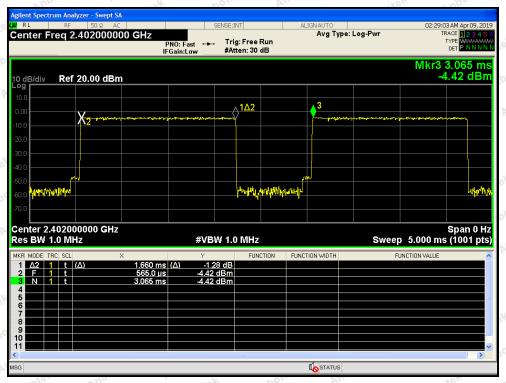
Test Mode: EDR---3DH1

Code: AB-RF-05-a

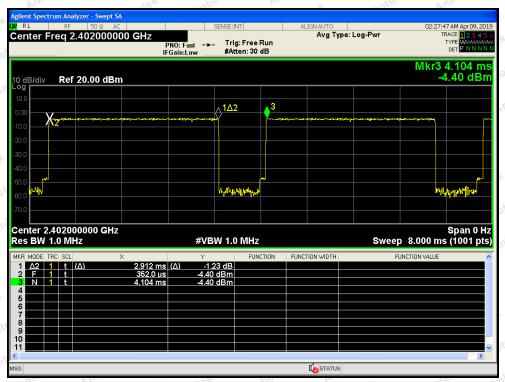
400-003-0500 www.anbotek.com



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Test Mode: EDR---3DH3



Test Mode: EDR---3DH5

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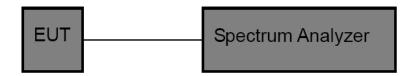
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10. 100kHz Bandwidth of Frequency Band Edge Requirement

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 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 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.
- Allow trace to fully stabilize.

10.4. Test Data

Test Item : Band edge : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature : 24° C Test Result : PASS Humidity : 55%RH

Remark: The EDR was tested on (π /4QPSK, 8DPSK) modes, only the worst data of (π /4DQPSK) is attached in the following pages.

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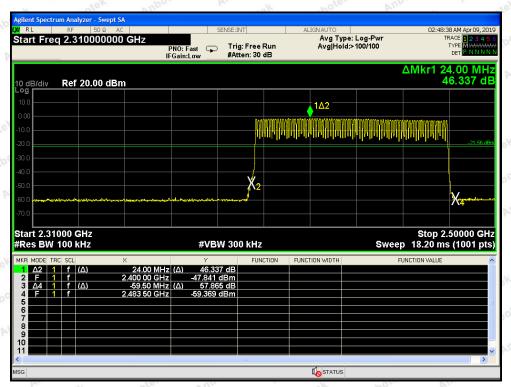
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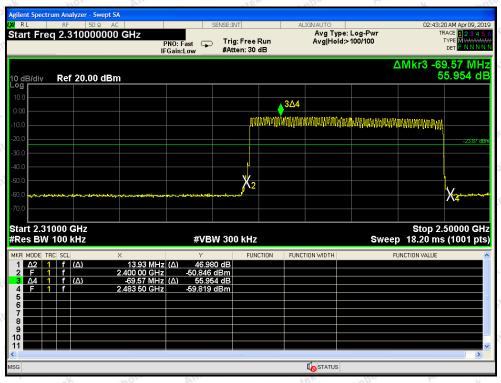
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For Hopping Mode



BDR mode



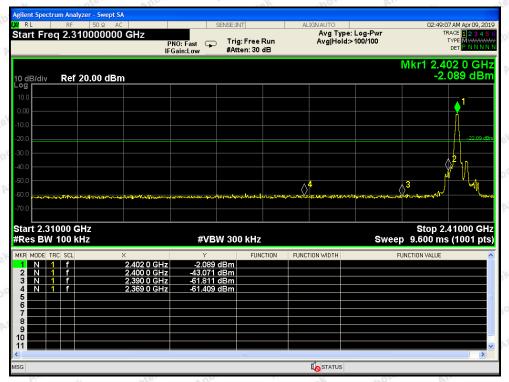
EDR mode



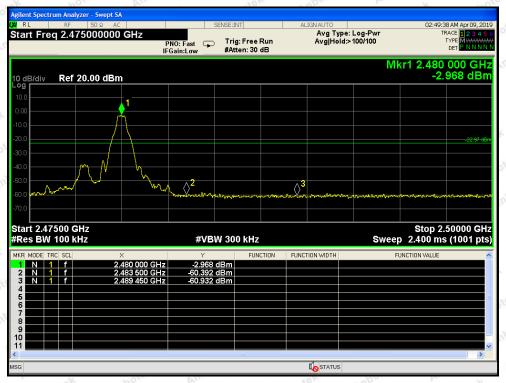
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For Non-Hopping Mode



BDR mode -- Lowest



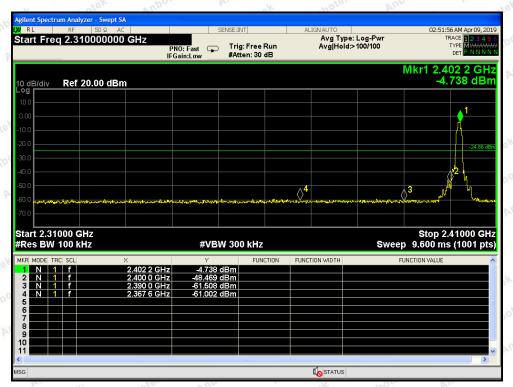
BDR mode -- Highest



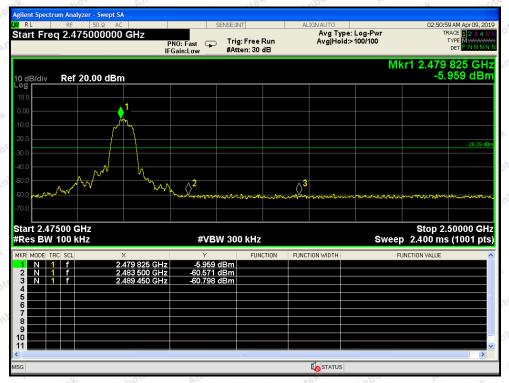
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For Non-Hopping Mode



EDR mode -- Lowest



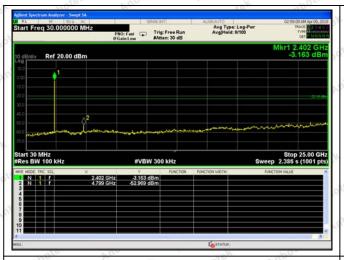
EDR mode -- Highest

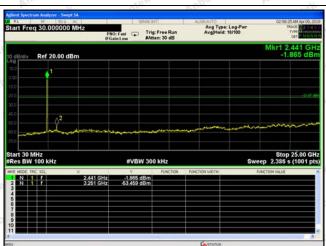


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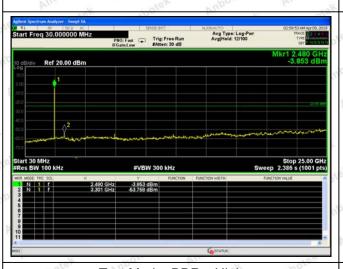
Conducted Emission Method

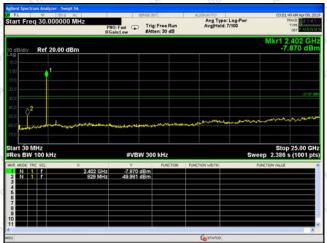




Test Mode: BDR---Low

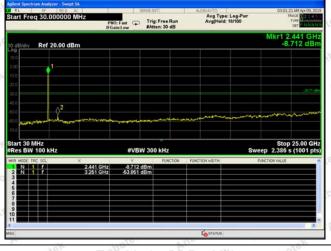
Test Mode: BDR---Mid

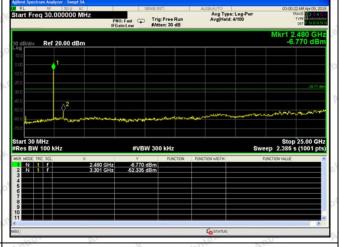




Test Mode: BDR---High

Test Mode: EDR---Low





Test Mode: BDR---Mid Test Mode: EDR---High



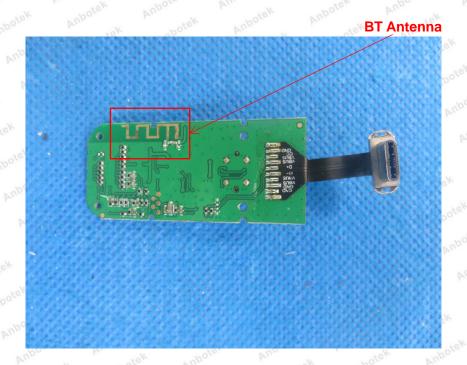
11. Antenna Requirement

11.1. 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.

11.2. Antenna Connected Construction

The antenna is PCB Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



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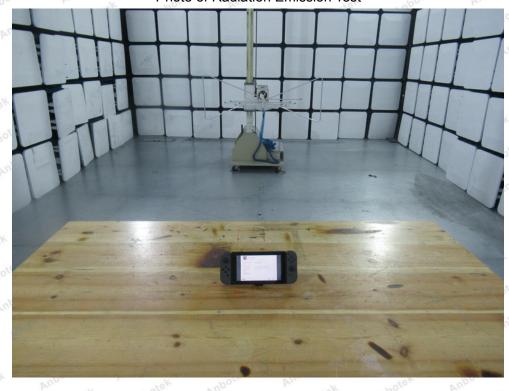
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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test



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APPENDIX II -- EXTERNAL PHOTOGRAPH





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

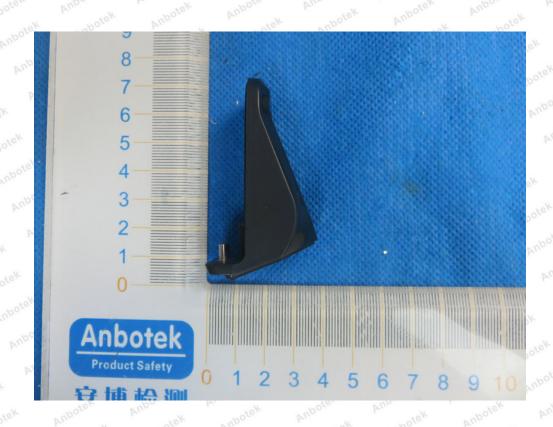
Tel:(86)755-26066440 Fax:(86)755-26014772 Email:service@anbotek.com







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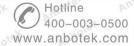


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APPENDIX III -- INTERNAL PHOTOGRAPH



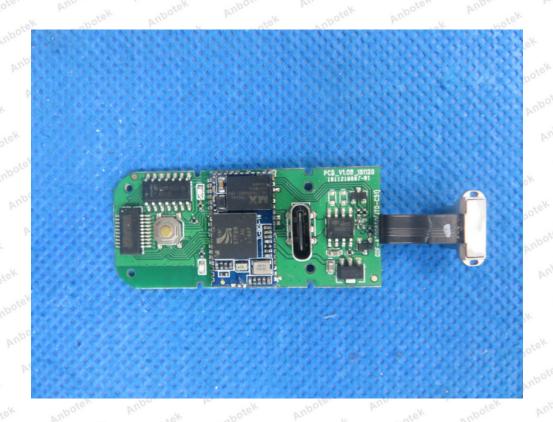


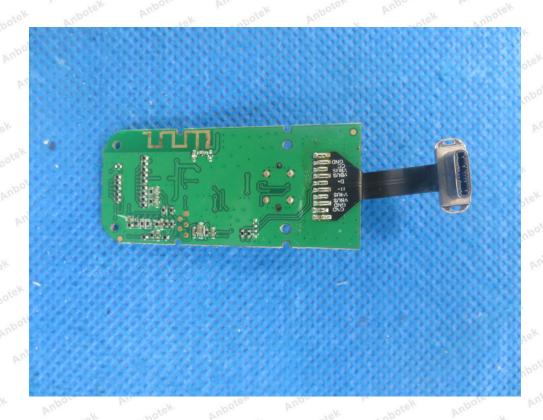
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