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FCC TEST REPORT

Client Name : PAWBO INC.

Address 7F.-5, No.369, Fuxing N. Rd., Songshan Dist., Taipei City,

Taiwan

Product Name : Pawbo Crunchy

Date : Nov. 15, 2019

Shenzhen Anbotek Compliance Laboratory Limited





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TEST REPORT

Applicant : PAWBO INC.

Manufacturer : Pan-International Precision Electronic Co., Ltd

Product Name : Pawbo Crunchy

Model No. : PPC-PF01

Trade Mark : PAWBO

Rating(s) : Input: DC 5V, 2A (Via Adapter Input: AC 100-240V, 50/60 Hz, 0.3A)

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

Date of Test

Oct. 17, 2019

Oct. 17~Nov. 13, 2019

Doll Mo

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited





1. General Information

1.1. Client Information

1	10°	VI. " " VO. " VO. " VI. " VO. " VI. " VO. " VI. " VI. " VO. " VI.
Applicant	:	PAWBO INC.
Address	:	7F5, No.369, Fuxing N. Rd., Songshan Dist., Taipei City, Taiwan
Manufacturer	:	Pan-International Precision Electronic Co., Ltd
Address	:	Xinlian Indl. Area, Hu-men, Dongguan, Guangdong, China
Factory	:	Pan-International Precision Electronic Co., Ltd
Address		Xinlian Indl. Area, Hu-men, Dongguan, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	Pawbo Crunchy	Anbotek Anbotek Anbotek Anbotek
Model No.	:	PPC-PF01	ak Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	PAWBO	potek Anborek Anbotek Anboren Anbore
Test Power Supply	:	AC 120V, 60Hz for ada	pter Andrek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample),	1-2-2(Engineering Sample)
		Operation Frequency:	WiFi: 802.11b/ g/ n(HT20) 2412-2462MHz BT: 2402-2480MHz
		Transfer Rate:	EDR: 1/2/3 Mbits/s BLE: 1 Mbits/s
Product		Number of Channel:	WiFi: 11 Channels for 802.11b/ g/ n(HT20) BDR&EDR: 79 Channels BLE: 40 Channels
Description		Modulation Type:	WiFi: 802.11b CCK; 802.11g/n OFDM BDR&EDR: GFSK, π/4-DQPSK, 8-DPSK BLE: GFSK
		Antenna Type:	PCB Antenna
		Antenna Gain(Peak):	-1.49 dBi

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

2) This report is for BDR&EDR module.

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1.3. Auxiliary Equipment Used During Test

Adapter	:	Model: DSA-10PFP-05 050200	Lotek Lotek	Anbore	And
		Input: AC 100-240V, 50/60Hz, 0.3A			Anbo,
		Output: DC 5V, 2A			Anbore

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.

Mode 1	otek Anbotek Anbote	CH00	Anborek Anborek Anbo
Mode 2	GFSK	CH39	Anbotek Anbotek A
Mode 3	Anbotek Anbotek Anbo	CH78	k abotek Anbotek
Mode 4	Anbotek Anboten Ar	CH00	tek abotek Anbotek
Mode 5	π/4-DQPSK	CH39	TX+Charging/TX Only
Mode 6	tek Anbotek Anbote	CH78	kupo, vek vupotek Vupo,
Mode 7	sotek Anbotek Anbot	CH00	Anbotek Anbotek Ar
Mode 8	8-DPSK	CH39	And hotek Anbotek
Mode 9	And Anbotek Anbotek An	CH78	and abotek Anbotek

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.
- (3) During the test, pre-scan all the patterns and find the AC adaptor which is the worst case, only the worst case is recorded in the report.

Code:AB-RF-05-a

Hotline
400-003-0500

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1.5. List of channels

No.	100	Dir.		201	Do	Yo.	100,	Di.	10.0
Channel	Freq.								
	(MHz)								
00	2402	17	2419	34	2436	51	2453	68	2470
01	2403	18	2420	35	2437	52	2454	69	2471
02	2404	19	2421	36	2438	53	2455	70	2472
03	2405	20	2422	37	2439	54	2456	71	2473
04	2406	21	2423	38	2440	55	2457	72	2474
05	2407	22	2424	39	2441	56	2458	73	2475
05	2408	23	2425	40	2442	57	2459	74	2476
07	2409	24	2426	41	2443	58	2460	75	2477
08	2410	25	2427	42	2444	59	2461	76	2478
09	2411	26	2428	43	2445	60	2462	77	2479
10	2412	27	2429	44	2446	61	2463	78	2480
11	2413	28	2430	45	2447	62	2464		0016
12	2414	29	2431	46	2448	63	2465		
13	2415	30	2432	47	2449	64	2466		1000
14	2416	31	2433	48	2450	65	2467		
15	2417	32	2434	49	2451	66	2468		
16	2418	33	2435	50	2452	67	2469		

Note:

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

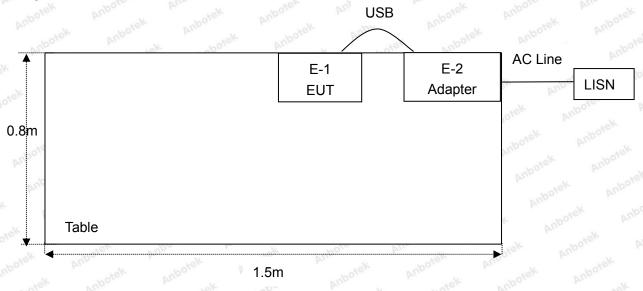


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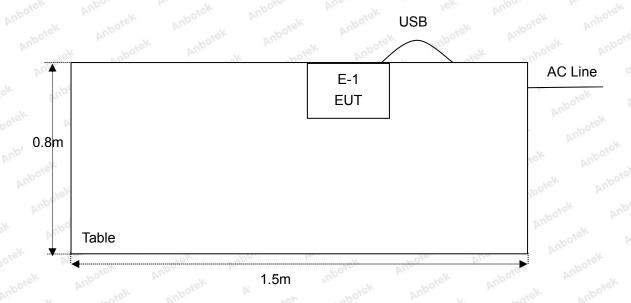
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1.6. Description Of Test Setup

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1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.	
1.Anb	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 04, 2019	1 Year	
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 04, 2019	1 Year	
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year	
4	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year	
5. P	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 04, 2019	1 Year	
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year	
nbore 7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year	
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 01, 2019	1 Year	
9.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 01, 2019	1 Year	
10.	Pre-amplifier	SONOMA	310N	186860	Nov. 04, 2019	1 Year	
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A	
12.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 04, 2019	1 Year	
13.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 04, 2019	1 Year	
14.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 04, 2019	1 Year	
15.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 04, 2019	1 Year	
16.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 04, 2019	1 Year	
17.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 04, 2019	1 Year	
18.	DC Power Supply	LW	TPR-6420D	374470	Nov. 04, 2019	1 Year	
19.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 04, 2019	1 Year	





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1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	botek
		Ur = 3.8 dB (Vertical)	Anborek
		sorek Anbot Anborek Anborek Anborek	Anbor
Conduction Uncertainty	:	Uc = 3.4 dB	An

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, September 27, 2019.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

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

400-003-0500

Code: AB-RF-05-a

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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 abbre	eviation for Not Applicable.	Anbotek Anbotek



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3. Conducted Emission Test

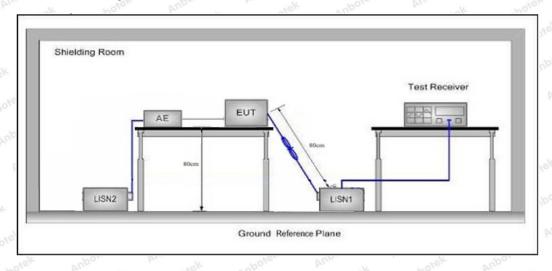
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.20	7 tek anbotek Anb	
	Fraguenav	Maximum RF L	ine Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

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

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

3.2. Test Setup



3.3. Test Procedure

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

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

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

3.4. Test Data

Please to see the following pages.

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.

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Conducted Emission Test Data

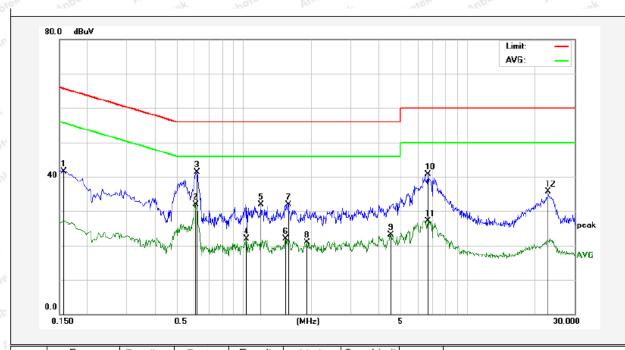
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 22.5℃ Hum.: 52%



	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
	1	0.1580	21.64	19.90	41.54	65.56	-24.02	QP	
	2	0.6060	11.93	20.01	31.94	46.00	-14.06	AVG	
9	3	0.6180	21.32	20.02	41.34	56.00	-14.66	QP	
,	4	1.0300	1.70	20.12	21.82	46.00	-24.18	AVG	
8	5	1.1940	11.86	20.12	31.98	56.00	-24.02	QP	
,	6	1.5420	1.68	20.13	21.81	46.00	-24.19	AVG	
	7	1.5820	11.83	20.13	31.96	56.00	-24.04	QP	
	8	1.9220	0.79	20.14	20.93	46.00	-25.07	AVG	
	9	4.5100	2.91	20.19	23.10	46.00	-22.90	AVG	
į.	10	6.6500	20.39	20.25	40.64	60.00	-19.36	QP	
	11	6.6500	6.94	20.25	27.19	50.00	-22.81	AVG	
	12	23.0060	15.38	20.30	35.68	60.00	-24.32	QP	



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Conducted Emission Test Data

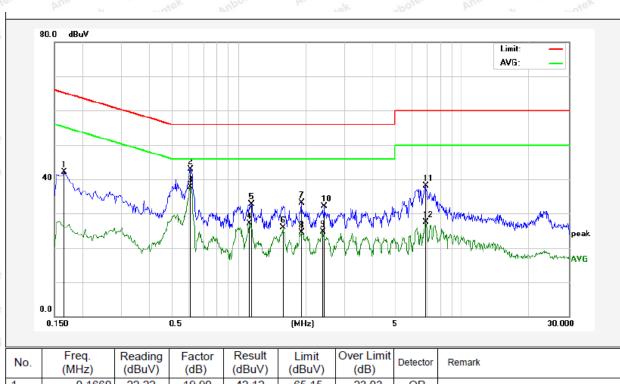
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.5℃ Hum.: 52%



	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
Ì	1	0.1660	22.22	19.90	42.12	65.15	-23.03	QP	
Ī	2	0.6100	22.95	20.01	42.96	56.00	-13.04	QP	
Ī	3	0.6100	17.66	20.01	37.67	46.00	-8.33	AVG	
	4	1.1220	6.90	20.12	27.02	46.00	-18.98	AVG	
Ī	5	1.1460	12.56	20.12	32.68	56.00	-23.32	QP	
	6	1.5780	5.77	20.13	25.90	46.00	-20.10	AVG	
	7	1.9140	12.90	20.14	33.04	56.00	-22.96	QP	
	8	1.9140	4.35	20.14	24.49	46.00	-21.51	AVG	
Ī	9	2.3940	4.58	20.15	24.73	46.00	-21.27	AVG	
1	10	2.4300	11.92	20.15	32.07	56.00	-23.93	QP	
	11	6.8900	17.77	20.26	38.03	60.00	-21.97	QP	
	12	6.8900	7.22	20.26	27.48	50.00	-22.52	AVG	
-					2007	200			



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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15	5.209 and 15.205	otek Aupor	ok Ho	rek Anboter
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Anbo	- nbotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	Pupo,	k Anbotek	30
	1.705MHz-30MHz	30	oten Pup	otek - Anbot	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbo
	88MHz~216MHz	150	43.5	Quasi-peak	unbotek 3 An
	216MHz~960MHz	200	46.0	Quasi-peak	Anbot 3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Ab 4000MI	500	54.0	Average	3.000
	Above 1000MHz	Anto Trek	74.0	Peak	stell 3 Anboli

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

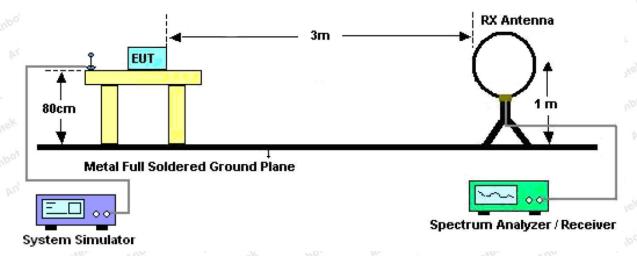
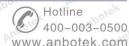


Figure 1. Below 30MHz

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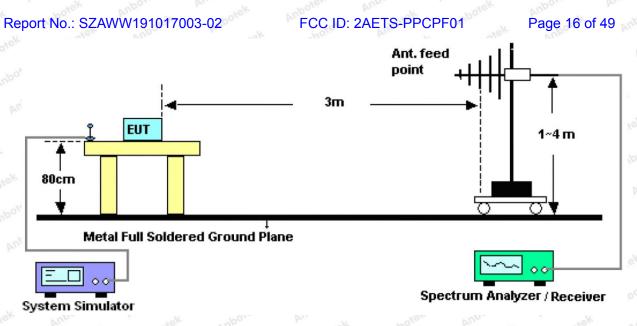


Figure 2. 30MHz to 1GHz

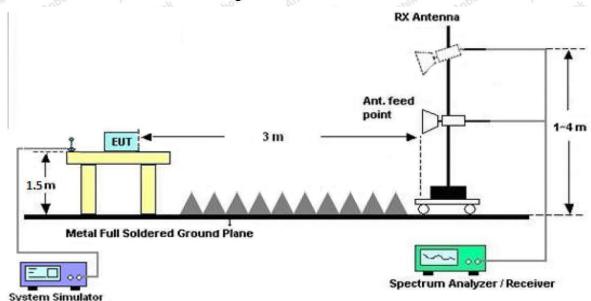


Figure 3. Above 1 GHz

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.

For the radiated emission test above 1GHz:

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

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

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

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

4.4. Test Data

PASS

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

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

Hotline 400-003-0500 www.anbotek.com



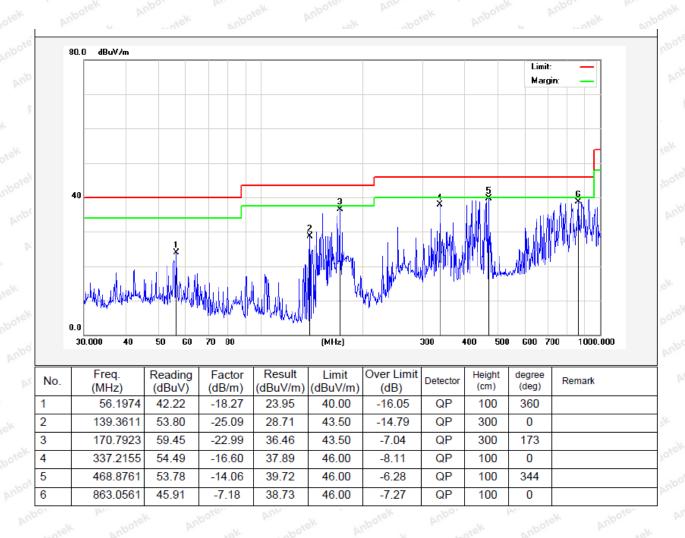
Report No.: SZAWW191017003-02 FCC ID: 2AETS-PPCPF01 Page 18 of 49

Test Results (30~1000MHz)

Job No.: SZAWW191017003-02 Temp.(℃)/Hum.(%RH): 22.2℃/51%RH

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

Test Mode: Mode 2 Polarization: Horizontal





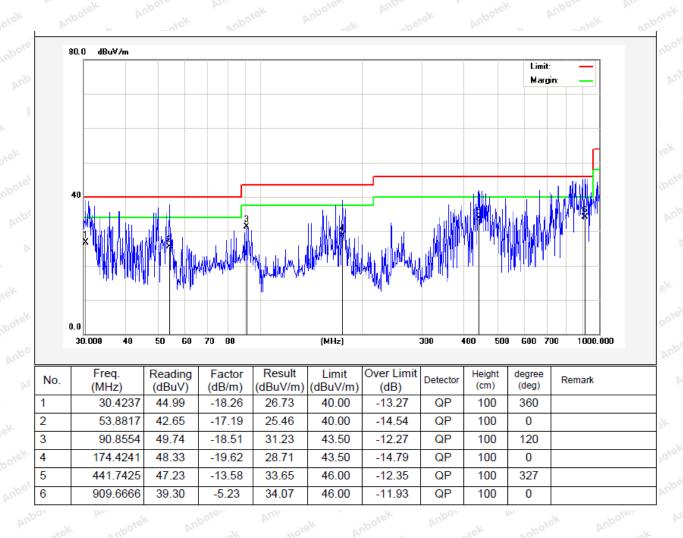
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Test Results (30~1000MHz)

Job No.: SZAWW191017003-02 Temp.(℃)/Hum.(%RH): 22.2℃/51%RH

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

Test Mode: Mode 2 Polarization: Vertical





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Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Lov	vest		
			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.
4804.00	38.87	34.04	6.58	34.09	45.40	74.00	-28.60	V
7206.00	32.87	37.11	7.73	34.50	43.21	74.00	-30.79	V
9608.00	32.39	39.31	9.23	34.79	46.14	74.00	-27.86	V
12010.00	And total	Anborer	Anbo	ek anb	otek Anb	74.00	botek p	Vodu
14412.00	* potek	Anbor	Aug	atek .	upotek A	74.00	botek	NOV.
4804.00	43.48	34.04	6.58	34.09	50.01	74.00	-23.99	H
7206.00	34.76	37.11	7.73	34.50	45.10	74.00	-28.90	Н
9608.00	31.96	39.31	9.23	34.79	45.71	74.00	-28.29	tek H
12010.00	Aupore*	Pur	Anbotek	Aupo	tek vupc	74.00	bur.	hotel
14412.00	Aupore ak	Vu.	K Anbor	And	otek	74.00	OOL P	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
4804.00	27.39	34.04	6.58	34.09	33.92	54.00	-20.08	V
7206.00	21.38	37.11	7.73	34.50	31.72	54.00	-22.28	V V
9608.00	20.36	39.31	9.23	34.79	34.11	54.00	-19.89	AnbV
12010.00	* * *	k Anb	oter Anb	otek	nbotek	54.00	hotek	V
14412.00	*	otek p	Hpoten P	inpo otek	nbotek	54.00	Pir Potek	V
4804.00	31.79	34.04	6.58	34.09	38.32	54.00	-15.68	ek H
7206.00	23.65	37.11	7.73	34.50	33.99	54.00	-20.01	H ^{lato} c
9608.00	20.22	39.31	9.23	34.79	33.97	54.00	-20.03	Hode
12010.00	An*Ole	bu.	lek Anbo	Hen An	otek.	54.00	hore	P.L.
14412.00	*Aupole	V	ofek A	hotek	Aupo	54.00	Aupole	Pili



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Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mid	ldle		
				 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	37.19	34.38	6.69	34.09	44.17	74.00	-29.83	V
7323.00	31.75	37.22	7.78	34.53	42.22	74.00	-31.78	V
9764.00	31.40	39.46	9.35	34.80	45.41	74.00	-28.59	V
12205.00	Aur *otek	Aupotek	Anbo	ek nb	otek Aup	74.00	poiek p	nbo V
14646.00	Ann * notek	Anbot	Anbo.	-16k	abotek A	74.00	hotek.	$A^{n}V^{n}$
4882.00	41.45	34.38	6.69	34.09	48.43	74.00	-25.57	H _a n'
7323.00	33.50	37.22	7.78	34.53	43.97	74.00	-30.03	Н
9764.00	30.81	39.46	9.35	34.80	44.82	74.00	-29.18	Rel H
12205.00	Anboten*	Ann	Anbotek	Aupor	rek opc	74.00	PLID	Hotou
14646.00	Aup there	Vuo.	k anbote	Anbr	rek bu	74.00	DOJOE D	He
			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	26.04	34.38	6.69	34.09	33.02	54.00	-20.98	V
7323.00	20.46	37.22	7.78	34.53	30.93	54.00	-23.07	Potek
9764.00	19.54	39.46	9.35	34.80	33.55	54.00	-20.45	AnbVe
12205.00	Aug * *	k Anb	otek Aup	*ek	abotek	54.00	hur Potek	Vo
14646.00	*	stek D	Upotek b	'upo,	abotek .	54.00	Vun Potek	V
4882.00	30.25	34.38	6.69	34.09	37.23	54.00	-16.77	a⊁ H
7323.00	22.63	37.22	7.78	34.53	33.10	54.00	-20.90	History
9764.00	19.27	39.46	9.35	34.80	33.28	54.00	-20.72	HA
12205.00	An*otek	MUD	lek anbe	Hek An	Por Viv	54.00	hotel	H
14646.00	* _{Anbores}	Anb.	rek	botek	Aupor	54.00	Anboten	AUG



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Test Results (1GHz-25GHz)

Test Mode:	CH78			Test	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	36.52	34.72	6.79	34.09	43.94	74.00	-30.06	V
7440.00	31.31	37.34	7.82	34.57	41.90	74.00	-32.10	V
9920.00	31.01	39.62	9.46	34.81	45.28	74.00	-28.72	V
12400.00	And *otek	Anbotek	Aupo.	ak and	otek Aup	74.00	potek p	,nbotok
14880.00	An * work	Anbot	Anbo	rek	abotek A	74.00	notek	AnVie
4960.00	40.65	34.72	6.79	34.09	48.07	74.00	-25.93	Hab
7440.00	33.00	37.34	7.82	34.57	43.59	74.00	-30.41	Н
9920.00	30.35	39.62	9.46	34.81	44.62	74.00	-29.38	tel H
12400.00	Aupote*	Ann botek	Anbotek	Aupo	rek opc	74.00	K DUD	Hotov
14880.00	Anb green	Vun.	k Anbote	Anb.	rek by	74.00	Oolor V	Hel
833			Av	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	25.55	34.72	6.79	34.09	32.97	54.00	-21.03	V
7440.00	20.13	37.34	7.82	34.57	30.72	54.00	-23.28	poter
9920.00	19.25	39.62	9.46	34.81	33.52	54.00	-20.48	AnbVek
12400.00	Aug * *	k Anb	otek Mup	*8/r	abotek	54.00	hur Potek	Voo
14880.00	*	stek b	Upotek b	upo,	abotek .	54.00	Am	V
4960.00	29.70	34.72	6.79	34.09	37.12	54.00	-16.88	e ^V H
7440.00	22.25	37.34	7.82	34.57	32.84	54.00	-21.16	Hlato
9920.00	18.92	39.62	9.46	34.81	33.19	54.00	-20.81	H.K
12400.00	AU*Oleg	Pupo	lek pupo	sek An	oo. Vi	54.00	Apologo	Pupp H
14880.00	* _{Anbotes}	Anbe	rek	botek	Aupo, -K	54.00	Aupolen	Anbo

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
- 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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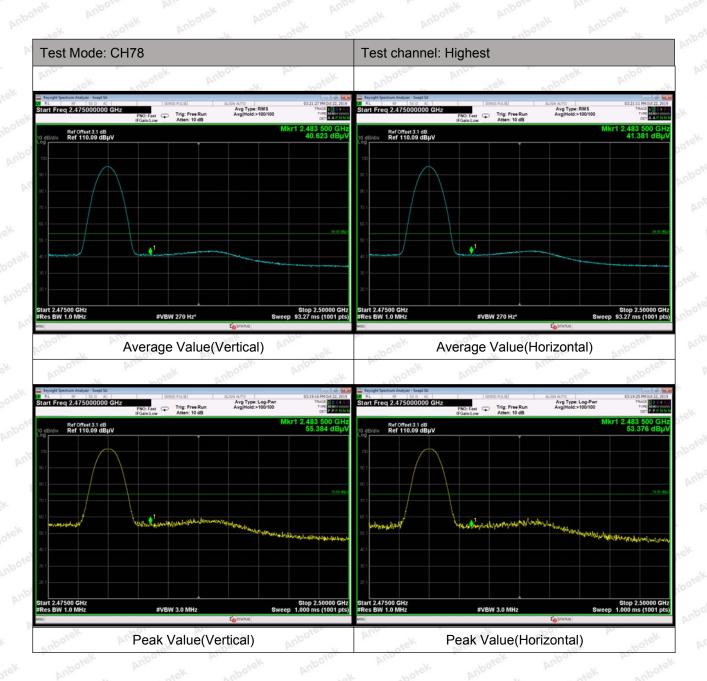
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Radiated Band Edge:





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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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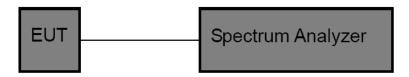
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5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Se	ction 15.247 (b	Anbotek	Anbu	anbotek	
Test Limit	125mW	Anbor	Al. abotek	Anboten	Ann	Anbot

5.2. Test Setup



5.3. Test Procedure

- 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	:	22.6℃
Test Result	:	PASS	Humidity	:	51%RH

Channel Frequency	Peak Power output	Limit	Dogulto	Modulation	
(MHz)	(dBm)	(dBm)	Results	Wodulation	
2402	-1.943	20.96	PASS	BDR	
2441	1.798	20.96	PASS	BDR	
2480	4.005	20.96	PASS	BDR	
2402	0.120	20.96	PASS	EDR	
2441	3.882	20.96	PASS	EDR	
2480	6.029	20.96	PASS	motel EDR nbotes	

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

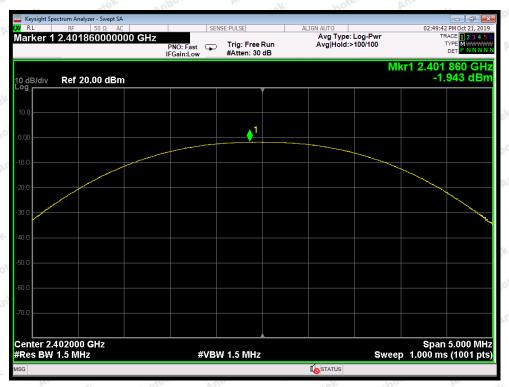
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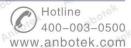


Test Mode: BDR---Low



Test Mode: BDR---Middle

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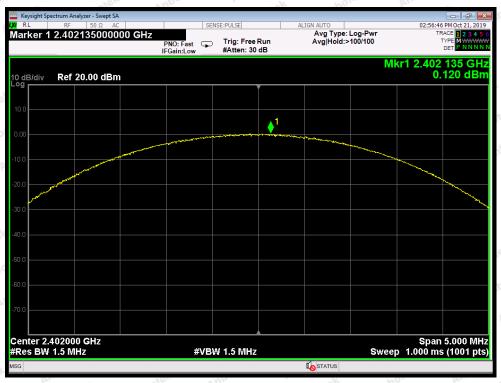


FCC ID: 2AETS-PPCPF01

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Test Mode: BDR---High

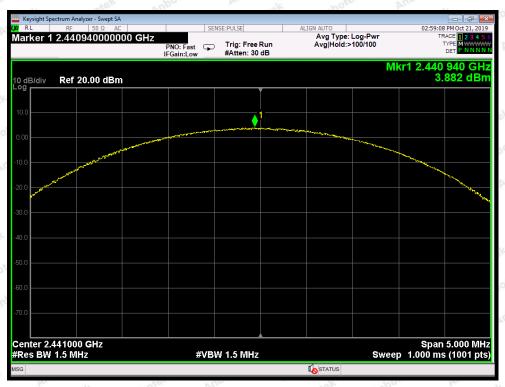


Test Mode: EDR---Low

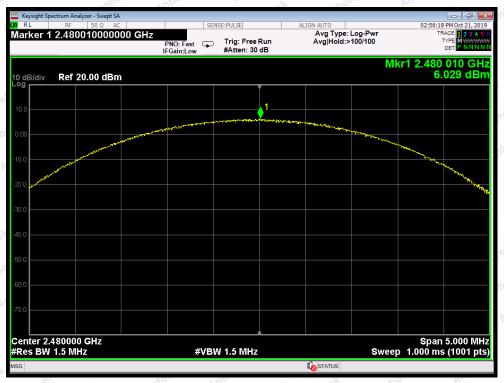


FCC ID: 2AETS-PPCPF01

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Test Mode: EDR---Middle



Test Mode: EDR---High



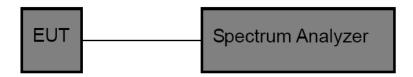
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6. 20DB Occupy Bandwidth Test

6.1. Test Standard

Test Standard FCC Part15 C Section 15.247 (a)(1)

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 : $22.6\,^{\circ}\text{C}$ Test Result : PASS Humidity : 51%RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	930.8	BDR Ambo
Middle	2441	918.3	BDR
High	2480	929.0	BDR BDR
Low	2402	1276	EDR poter
Middle	2441	1269	Anbotek EDR Anbotek
High	2480	1275	AnborEDR Anbores

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

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FCC ID: 2AETS-PPCPF01

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Test Mode: BDR---Low



Test Mode: BDR---Middle

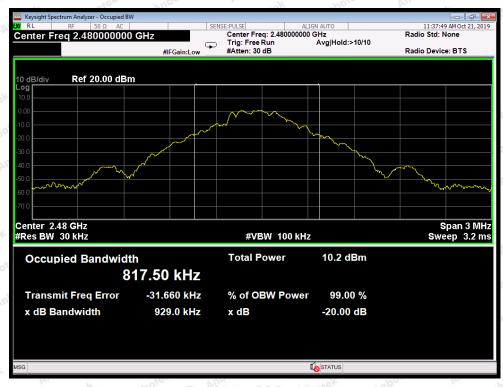
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FCC ID: 2AETS-PPCPF01

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Test Mode: BDR---High



Test Mode: EDR---Low

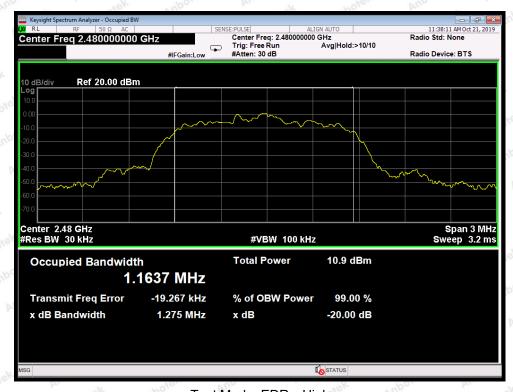


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Test Mode: EDR---Middle



Test Mode: EDR---High



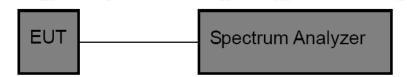
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7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbore	Anshotek	Anbotek
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbore	K hotek	Anbot

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	:	22.6 ℃
Test Result	:	PASS	Humidity	:	51%RH

Channel	Frequency (MHz)	Separation Read Value (kHz)	Limit (kHz)	Modulation Mode		
Low	2402	1000	930.8	BDR		
Middle	2441	1000	918.3	BDR Mills		
High	2480	1000	929.0	BDR		
Low	2402	1000	850.7	EDR		
Middle	2441	1000	846.0	EDR		
High	2480	1000	850.0	orek EDR		

Remark: (1)The limit is 2/3 of 20dB BW;

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

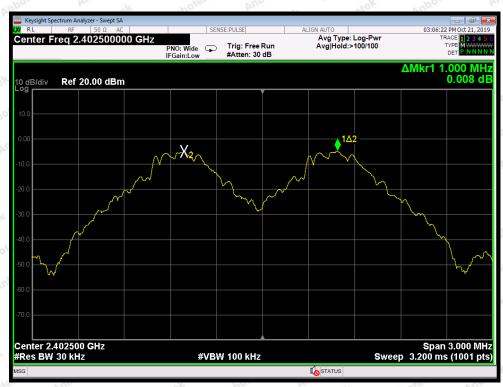
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Test Mode: BDR---Low



Test Mode: BDR---Middle



FCC ID: 2AETS-PPCPF01

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Test Mode: BDR---High



Test Mode: EDR---Low



FCC ID: 2AETS-PPCPF01

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Test Mode: EDR---Middle



Test Mode: EDR---High



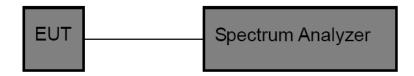
Report No.: SZAWW191017003-02 FCC ID: 2AETS-PPCPF01

8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbore	Andhorek	Anborek
Test Limit	>15 channels	Anbore	Anshotek	Anbo

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
51	Test Voltage :	AC 120V, 60Hz for adapter	Temperature :	22.6℃
	Test Result :	PASS	Humidity :	51%RH

Hopping Channel	Quantity of Hopping	Quantity of Hopping	Modulation Mode	
Frequency Range	Channel	Channel		
2402-2480MHz	Anu 79 botek	>15	BDR	
2402-2480MHz	79	>15	H ADDRESS EDR AND OF THE PARTY	

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

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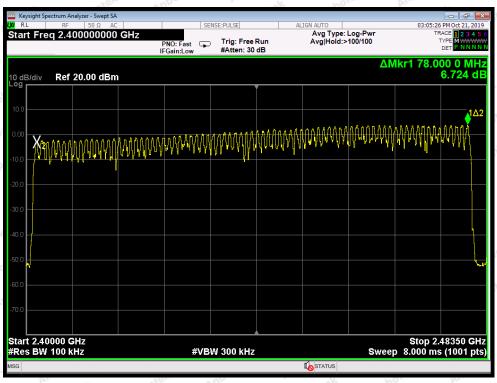


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BDR Mode



EDR Mode



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9. Dwell Time Test

9.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	otek Anbote	Andhorek	Anbotek
Test Limit	0.4 sec	nbotek Anbore	ak hotek	Anbo

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 Item : Time of Occupancy Test Mode : CH Low \sim CH High Test Voltage : AC 120V, 60Hz for adapter Temperature : 22.6 $^{\circ}$

Test Result : PASS Humidity : 51%RH

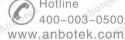
Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.378	time slot length *1600/2 /79 * 31.6	120.96	0.4	BDR
DH3	1.626	time slot length *1600/4 /79 * 31.6	260.16	0.4	BDR
DH5 And	2.880	time slot length *1600/6 /79 * 31.6	307.20	0.4	BDR
3DH1	0.390	time slot length *1600/2 /79 * 31.6	124.80	0.4	EDR
3DH3	1.638	time slot length *1600/4 /79 * 31.6	262.08	0.4	EDR
3DH5	2.896	time slot length *1600/6 /79 * 31.6	308.91	0.4	EDR

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

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Code:AB-RF-05-a

Hotline

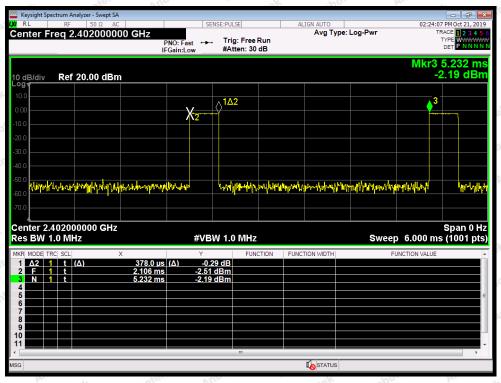


Fax: (86) 755-26014772

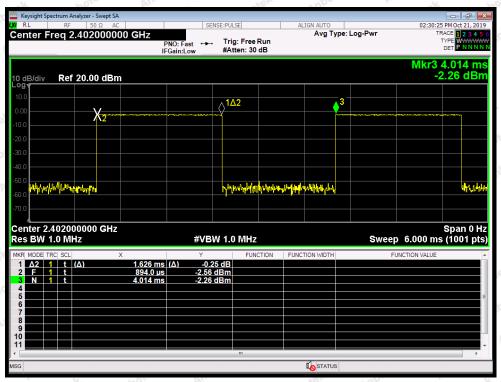


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Test Mode: BDR---DH1

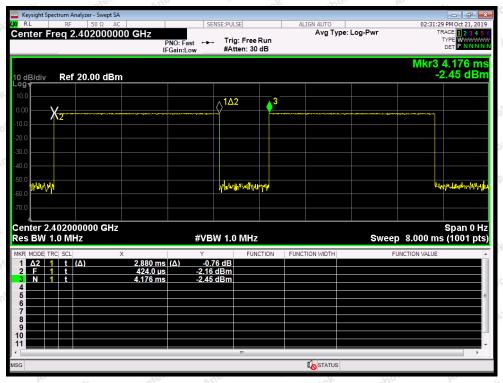


Test Mode: BDR---DH3

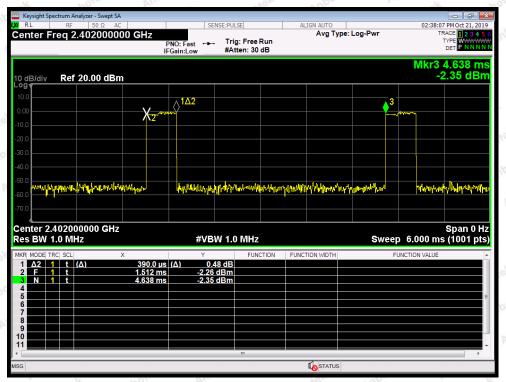


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Test Mode: BDR---DH5

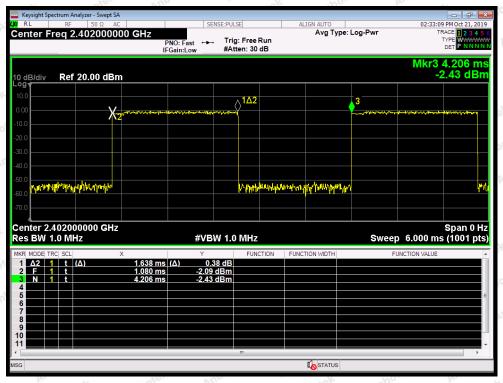


Test Mode: EDR---3DH1

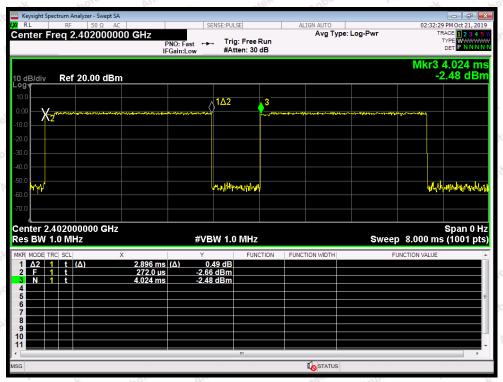


FCC ID: 2AETS-PPCPF01

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Test Mode: EDR---3DH3



Test Mode: EDR---3DH5



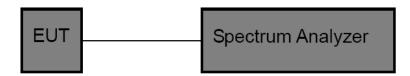
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10. 100kHz Bandwidth of Frequency Band Edge Requirement

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.
- 6. Allow trace to fully stabilize.

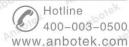
10.4. Test Data

Test Item : Band edge : CH Low ~ CH High

Test Voltage : AC 120V, 60Hz for adapter Temperature : $22.6\,^{\circ}$ C Test Result : PASS Humidity : 51%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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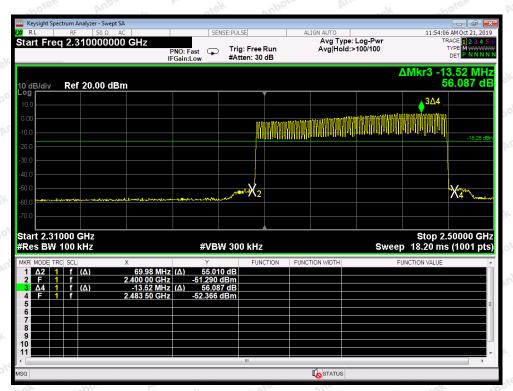




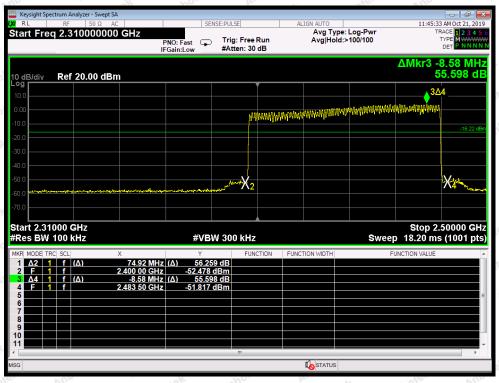
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For Hopping Mode



BDR mode



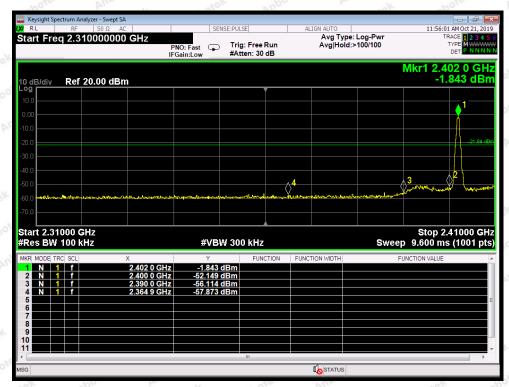
EDR mode



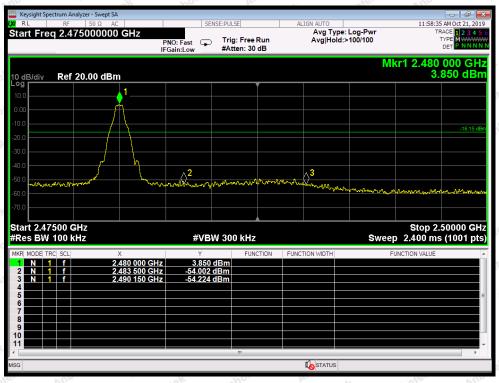
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For Non-Hopping Mode



BDR mode -- Lowest



BDR mode -- Highest

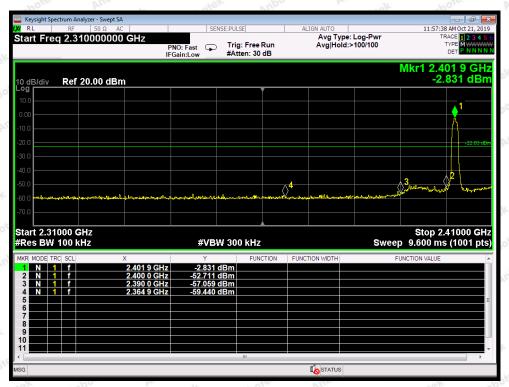
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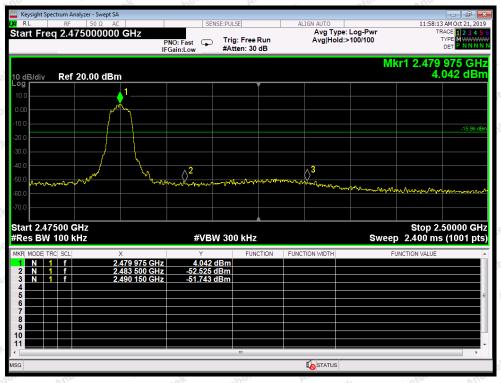
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For Non-Hopping Mode



EDR mode -- Lowest



EDR mode -- Highest

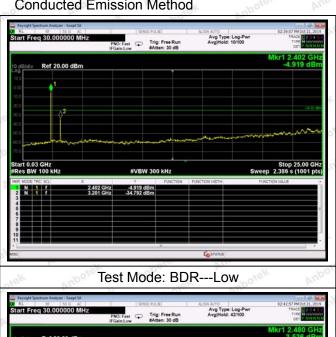
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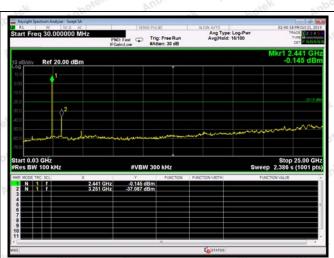


FCC ID: 2AETS-PPCPF01

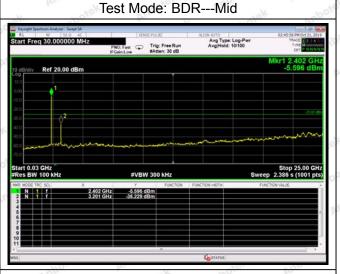
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Conducted Emission Method

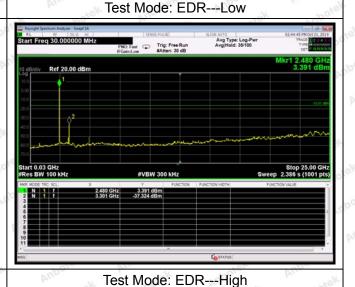




Ref 20.00 dBr Stop 25.00 GHz Sweep 2.386 s (1001 pts)



Test Mode: BDR---High Avg Type: Log-Pwr Avg/Hold: 8/100 t Trig: Free Run Ref 20.00 dBm



Test Mode: EDR---Mid



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11. Antenna Requirement

11.1. Test Standard and Requirement

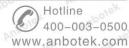
Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses 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

11.2. Antenna Connected Construction

The antenna is PCB Antenna which permanently attached, and the best case gain of the antenna is -1.49 dBi. It complies with the standard requirement.



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APPENDIX I -- PHOTOGRAPH

Reference to the test report SZAWW191017003-01.

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

Shenzhen Anbotek Compliance Laboratory Limited