

Report No.: SZAWW190418005-01 FCC ID: 2AANZBT65 Page 1 of 58

FCC TEST REPORT

Client Name : DGL Group LTD.

Address 195 Raritan Center Parkway, Edison, New Jersey, United

States, 08837

Product Name : BLUETOOTH HEADSETS

Date : May 16. 2019

Shenzhen Anbotek Compliance Laboratory Limited



Report No.: SZAWW190418005-01 FCC ID: 2AANZBT65

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TEST REPORT

Applicant : DGL Group LTD.

Manufacturer : DGL Group LTD.

Product Name : BLUETOOTH HEADSETS

Model No. : HY-BT65, HY-BT65-TEAL, HY-BT65-NVY, HY-BT65-MRN, HY-BT65-BLK

DG-SLATE-ASST, DG-SLATE-BLK, DG-SLATE-RSE

Trade Mark : N.A.

Rating(s) : Input: DC 5V, 60mA(with DC 3.7V, 75 mAh Battery inside)

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. 18, 2019
Date of Test Anbotek	Apr. 18~29, 2019
Anbotek Product Safety	olivay larg
Prepared by *Approved*	Anbot Anbotek Anbotek Anbotek
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Reviewer	Anbore Anborek Anborek
And Anbotek Anbotek Anbotek	(Supervisor / Snowy Meng)
	Anbotek Anbo
	Sally Zhong
Approved & Authorized Signer	A Modern Muss tok
	(Manager / Sally Zhang)

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1. General Information

1.1. Client Information

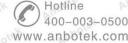
Applicant	: DGL Group LTD.
Address	: 195 Raritan Center Parkway, Edison, New Jersey, United States, 08837
Manufacturer	: DGL Group LTD.
Address	: 195 Raritan Center Parkway, Edison, New Jersey, United States, 08837
Factory	: DGL Group LTD.
Address	: 195 Raritan Center Parkway, Edison, New Jersey, United States, 08837

1.2. Description of Device (EUT)

Product Name	:	BLUETOOTH HEADSETS			
Model No.	:	DG-SLATE-ASST, DG-SLATE	ne except the name and the color, so we		
Trade Mark	:	N.A.	Anbote And abotek Anbotek Anbot		
Test Power Supply	:	AC 120V, 60Hz for adapter/ D	C 3.7V Battery inside		
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)			
		Operation Frequency:	2402MHz~2480MHz		
		Transfer Rate:	BT 4.2 BDR+EDR: 1/2 Mbits/s BT 4.2 BLE: 1 Mbits/s		
Product		Number of Channel:	BT 4.2 BDR+EDR: 79 Channels BT 4.2 BLE: 40 Channels		
Description		Modulation Type: BT 4.2 BDR+EDR: GFSK, π/4-DQPSK BT 4.2 BLE: GFSK			
		Antenna Type:	PCB Antenna		
		Antenna Gain(Peak):	-0.58 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 BT 4.2 BDR+EDR module.
- 3) BDR(GFSK), EDR(π/4-DQPSK).





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1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: ZTE	V.
		M/N: STC-A2050I1000USBA-C	Anbo
		S/N: 201202102100876	otek Ar
þ		Input: 100-240V~ 50/60Hz, 0.3A	botek
		Output: DC 5V, 1000mA	*III

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	ek Anbote Ann botek	CH00	Anbotek Anbotes Anb
Mode 2	GFSK	CH39	Anbotek Anbote And
Mode 3	Anbotek Anbot Air	CH78	TX+ Charging Mode/TX
Mode 4	Anbotek Anbo otek	CH00	Only
Mode 5	π/4-DQPSK	CH39	wotek Anbotek Anborder
Mode 6	k Anbotes Anbo hotek	CH78	nbotek Anbotek Anbo

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.



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1.5. List of channels

be.		76,	- up	F _V		200 700		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:

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



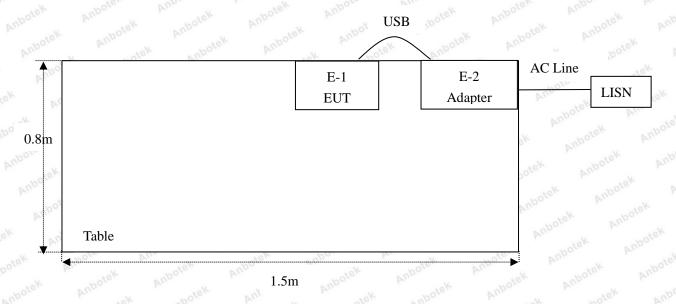
Report No.: SZAWW190418005-01

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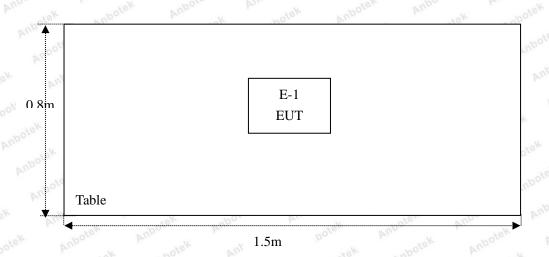
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1.6. Description Of Test Setup

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1.7. Test Equipment List

		- 00°	- V	ATT.		Cal.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Interval
nb1tek	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,	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
, 10°8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year
e [¥] 11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	Anbo 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	Anbonotek	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



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3. Conducted Emission Test

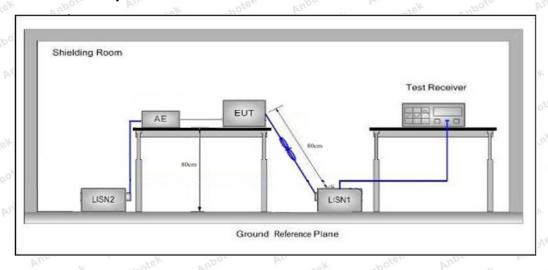
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	207 Anbotes Anbotek					
Test Limit	Fraguenay	Maximum RF Line Voltage (dBuV)					
	Frequency	Quasi-peak Level	Average	Level			
	150kHz~500kHz	66 ~ 56 *	56 ~ 4	l6 *			
	500kHz~5MHz	Mibotek 56 Anbou	46	otek Yup,			
	5MHz~30MHz	60 Mario	50	Anbotek 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 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

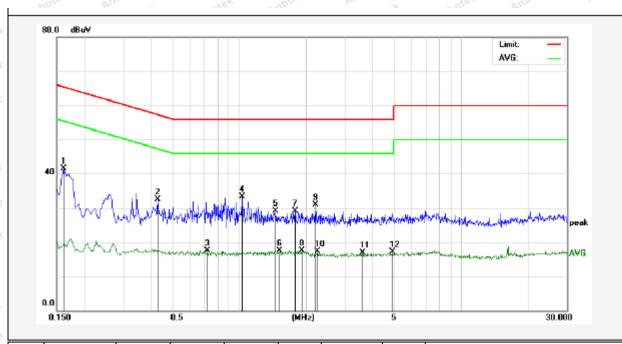
Test Site: 1# Shielded Room

Mode 1 **Operating Condition:**

Test Specification: AC 120V, 60Hz for adapter

Live Line Comment:

Tem.: 22.7℃ Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1620	21.69	19.90	41.59	65.36	-23.77	QP	
2	0.4300	12.63	19.95	32.58	57.25	-24.67	QP	
3	0.7180	-2.50	20.04	17.54	46.00	-28.46	AVG	
4	1.0300	13.11	20.12	33.23	56.00	-22.77	QP	
5	1.4580	9.00	20.13	29.13	56.00	-26.87	QP	
6	1.5339	-2.68	20.13	17.45	46.00	-28.55	AVG	
7	1.7860	9.05	20.14	29.19	56.00	-26.81	QP	
8	1.9100	-2.61	20.14	17.53	46.00	-28.47	AVG	
9	2.2060	10.82	20.14	30.96	56.00	-25.04	QP	
10	2.2540	-2.86	20.14	17.28	46.00	-28.72	AVG	
11	3.5860	-3.36	20.17	16.81	46.00	-29.19	AVG	
12	4.9220	-3.13	20.20	17.07	46.00	-28.93	AVG	

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



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Conducted Emission Test Data

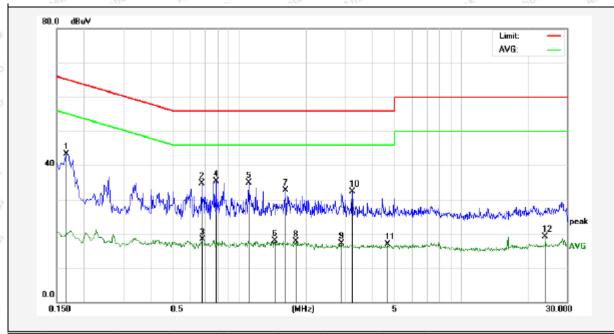
Test Site: 1# Shielded Room

Mode 1 **Operating Condition:**

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 22.7℃ Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1660	23.40	19.90	43.30	65.15	-21.85	QP	
2	0.6780	14.60	20.03	34.63	56.00	-21.37	QP	
3	0.6860	-1.77	20.04	18.27	46.00	-27.73	AVG	
4	0.7860	15.23	20.06	35.29	56.00	-20.71	QP	
5	1.1060	14.76	20.12	34.88	56.00	-21.12	QP	
6	1.4460	-2.27	20.13	17.86	46.00	-28.14	AVG	
7	1.6220	12.51	20.13	32.64	56.00	-23.36	QP	
8	1.7980	-2.51	20.14	17.63	46.00	-28.37	AVG	
9	2.8900	-3.15	20.16	17.01	46.00	-28.99	AVG	
10	3.2260	12.08	20.16	32.24	56.00	-23.76	QP	
11	4.6500	-3.37	20.20	16.83	46.00	-29.17	AVG	
12	23.9980	-1.15	20.29	19.14	50.00	-30.86	AVG	

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



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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	Annotek	Anbotek	Aupo, by
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	nbotek An	ote. Anu	300 NO
	0.490MHz-1.705MHz	24000/F(kHz)	An abotak	Aupore Ar	30
	1.705MHz-30MHz	30	Anbotek	Anbole.	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3 notek
	88MHz~216MHz	150	43.5	Quasi-peak	3 botek
	216MHz~960MHz	200	46.0	Quasi-peak	3 abot
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 4000ML	500 book	54.0	Average	Anbox 3
	Above 1000MHz	Anbotek - Anbote	74.0	Peak	Anbo 3

Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

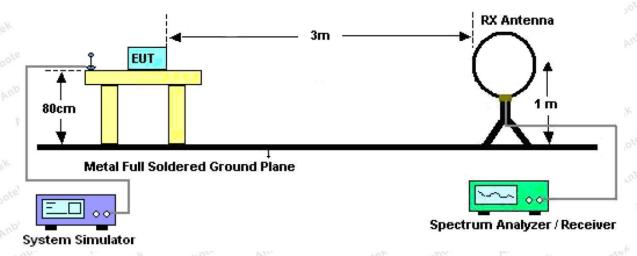


Figure 1. Below 30MHz



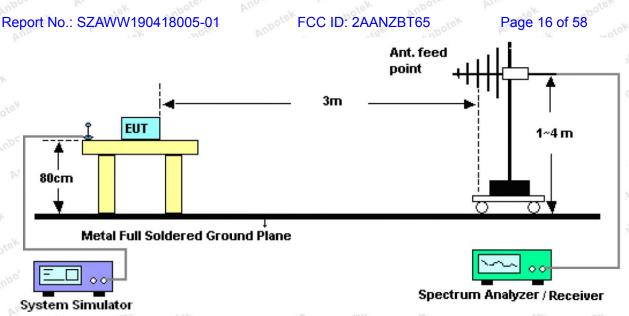


Figure 2. 30MHz to 1GHz

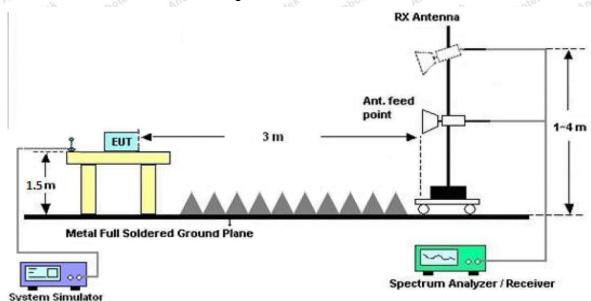


Figure 3. Above 1 GHz

4.3. Test Procedure

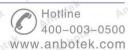
For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

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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 modulation, and found the GFSK modulation Middle channel(TX Only) which is the worst case, only the worst case is recorded in the report.

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



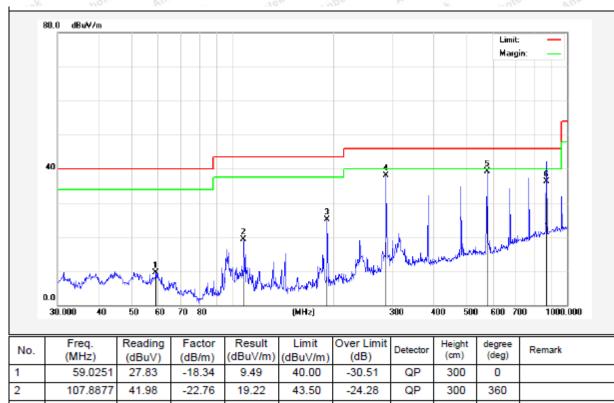
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Test Results (30~1000MHz)

SZAWW190418005-01 Job No.: Temp.(°C)/Hum.(%RH): 23.5°C/52%RH

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

Test Mode: Mode 2 Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	59.0251	. ,	-18.34	9.49	40.00	-30.51	QP	300	0	
2	107.8877	41.98	-22.76	19.22	43.50	-24.28	QP	300	360	
3	191.7450	46.78	-21.62	25.16	43.50	-18.34	QP	300	0	
4	287.9904	56.99	-18.87	38.12	46.00	-7.88	QP	300	360	
5	576.6443	51.45	-12.16	39.29	46.00	-6.71	QP	300	0	
6	863.9899	42.86	-6.53	36.33	46.00	-9.67	QP	300	360	

Code: AB-RF-05-a



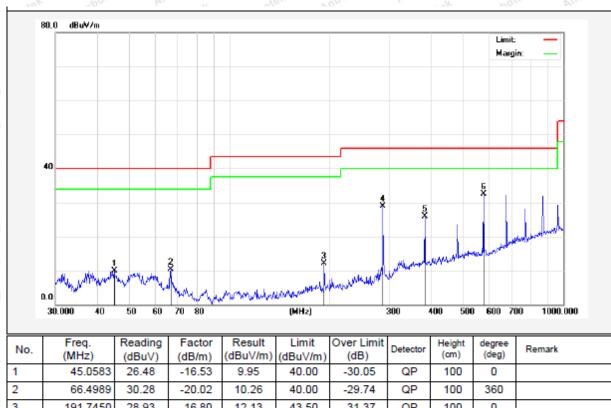
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Test Results (30~1000MHz)

SZAWW190418005-01 Job No.: Temp.(°C)/Hum.(%RH): 23.5°C/52%RH

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

Mode 2 Test Mode: Polarization: Vertical



No.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector	Height (cm)	degree (deg)	Remark
1	45.0583	26.48	-16.53	9.95	40.00	-30.05	QP	100	0	
2	66.4989	30.28	-20.02	10.26	40.00	-29.74	QP	100	360	
3	191.7450	28.93	-16.80	12.13	43.50	-31.37	QP	100	0	
4	287.9904	44.70	-15.87	28.83	46.00	-17.17	QP	100	360	
5	383.9318	39.21	-13.39	25.82	46.00	-20.18	QP	100	0	
6	576.6443	43.20	-10.63	32.57	46.00	-13.43	QP	100	360	

Code: AB-RF-05-a



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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	40.84	34.04	6.58	34.09	47.37	74.00	-26.63	No VK
7206.00	34.17	37.11	7.73	34.50	44.51	74.00	-29.49	V
9608.00	33.56	39.31	9.23	34.79	47.31	74.00	-26.69	V
12010.00	* Ano	tek	nbotek	Anbore	Ans	74.00	Anbor	V
14412.00	ibotek * A	¹ po-	Botek	Anbotek	K Anti-	74.00	Vupor	V
4804.00	45.85	34.04	6.58	34.09	52.38	74.00	-21.62	H
7206.00	36.24	37.11	7.73	34.50	46.58	74.00	-27.42	H du
9608.00	33.31	39.31	9.23	34.79	47.06	74.00	-26.94	AUBO
12010.00	ek * anbo	TON PL	box by	botek	Anbotes	74.00	Napolek	y S
14412.00	cotek *	botek	Aupore	A botek	Anboten	74.00	nbote	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	28.98	34.04	6.58	34.09	35.51	54.00	-18.49	V
7206.00	22.46	37.11	7.73	34.50	32.80	54.00	-21.20	V
9608.00	21.32	39.31	9.23	34.79	35.07	54.00	-18.93	V
12010.00	Anbotek	Aupor	botek	Anbote	Anbe	54.00	isk Aupo	V
14412.00	Anb*tek	Aupore	ok hot	anb	yes Anb	54.00	potek P	V
4804.00	33.60	34.04	6.58	34.09	40.13	54.00	-13.87	AUD C
7206.00	24.87	37.11	7.73	34.50	35.21	54.00	-18.79	H
9608.00	21.34	39.31	9.23	34.79	35.09	54.00	-18.91	Н
12010.00	otel*	Anbotek	Aupore	Pur notek	Anbotek	54.00	SK - 400	iek H
14412.00	Yupo *ek	abotek	Aupore.	K M	lek Anbo	54.00	rek br.	Hotek

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Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mid	dle		
			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	40.71	34.38	6.69	34.09	47.69	74.00	-26.31	~o√k
7323.00	34.08	37.22	7.78	34.53	44.55	74.00	-29.45	V
9764.00	33.48	39.46	9.35	34.80	47.49	74.00	-26.51	V
12205.00	rek * Aup.	*ek	abotek	Anboten	Ansotek	74.00	Aupore	V
14646.00	hotek * A	Upo.	Abotek	Anbotek	Anbe	74.00	Aupon	V
4882.00	45.68	34.38	6.69	34.09	52.66	74.00	-21.34	H
7323.00	36.14	37.22	7.78	34.53	46.61	74.00	-27.39	h H
9764.00	33.22	39.46	9.35	34.80	47.23	74.00	-26.77	ANDO
12205.00	ek * anbo	ick by	bor by	botek	Anbotek	74.00	v. V.potek	Ho
14646.00	cotek *	botek	Aupore	An abotek	Anboten	74.00	nbote	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	28.90	34.38	6.69	34.09	35.88	54.00	-18.12	V
7323.00	22.41	37.22	7.78	34.53	32.88	54.00	-21.12	V
9764.00	21.27	39.46	9.35	34.80	35.28	54.00	-18.72	V
12205.00	Anbotek	Aupor	potek.	Anbote	Anbo	54.00	OK Anbi	V
14646.00	Vupatek	Aupore	N NOT	Anb	Yer, Vup.	54.00	ootek A	V
4882.00	33.51	34.38	6.69	34.09	40.49	54.00	-13.51	AUDON.
7323.00	24.81	37.22	7.78	34.53	35.28	54.00	-18.72	H
9764.00	21.28	39.46	9.35	34.80	35.29	54.00	-18.71	Н
12205.00	atel*	nbotek	Pupote.	Anv	Anbotek	54.00	K 200	isk H
14646.00	Yupo **	potek	Aupote	Prun	lek vupo	54.00	Pr.	Hotok

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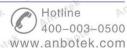
Test Results (1GHz-25GHz)

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	39.48	34.72	6.79	34.09	46.90	74.00	-27.10	V _V
7440.00	33.28	37.34	7.82	34.57	43.87	74.00	-30.13	V
9920.00	32.76	39.62	9.46	34.81	47.03	74.00	-26.97	V
12400.00	rek * Aup.	18K	nbotek	Anbotes	Ans	74.00	Aupor	V
14880.00	hotek * A	Upo.	Abotek	Aupolen	k Anbe	74.00	Anbot	V
4960.00	44.22	34.72	6.79	34.09	51.64	74.00	-22.36	H
7440.00	35.22	37.34	7.82	34.57	45.81	74.00	-28.19	H day
9920.00	32.38	39.62	9.46	34.81	46.65	74.00	-27.35	AUDOL
12400.00	ek * anbo	COK PL	box K	botek	Anbotes	74.00	* upotek	Hall Hall
14880.00	otek *	botek	Aupor	An botek	Anboten	74.00	anbote	Н
			Av	erage Valu	ie			
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	28.04	34.72	6.79	34.09	35.46	54.00	-18.54	V
7440.00	21.82	37.34	7.82	34.57	32.41	54.00	-21.59	V
9920.00	20.75	39.62	9.46	34.81	35.02	54.00	-18.98	V
12400.00	Anbotek	Aupor	by apolek	Anbote	And	54.00	ek Aupo	V
14880.00	Anb*tek	Aupor	ok pot	anb Anb	yer Anb.	54.00	ootek Ar	,boto
4960.00	32.53	34.72	6.79	34.09	39.95	54.00	-14.05	Vuldage
7440.00	24.15	37.34	7.82	34.57	34.74	54.00	-19.26	$H_{(p)}$
9920.00	20.68	39.62	9.46	34.81	34.95	54.00	-19.05	Нр
12400.00	otel*	Anbotek	Aupoto	Anthorel	Anbotek	54.00	K - 200	ek H
14880.00	* * ek	nbotek	Anboto,	Nun.	lek Anbo	54.00	rek bri	Herod

Remark:

- 1. During the test, pre-scan the GFSK, $\pi/4$ QPSK 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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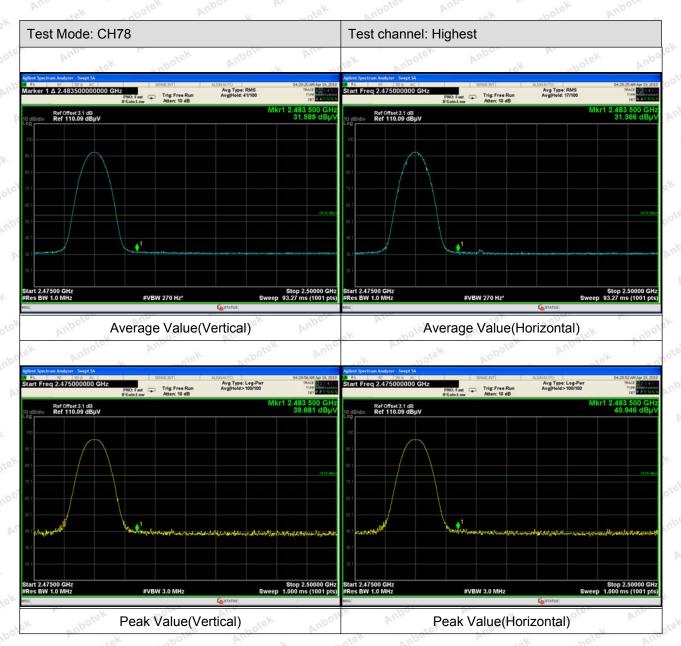
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Radiated Band Edge:





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Remark:

- 1. During the test, pre-scan the GFSK, π /4QPSKmodulation, 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)	Anbo	An abotek	Anbote.	Pu,
Test Limit	125mW	Ar. hotek	Anboten	Anbo	nbotek	Anbore	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

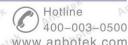
Trace = max hold

5.4. Test Data

Test Item : Max. peak output power : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 22.3° C Test Result : PASS Humidity : 49° RH

Channel Frequency	Peak Power output	Limit	Results	Modulation
(MHz)	(dBm)	(dBm)	Results	Wiodulation
2402	-5.400	20.96	PASS	BDR
2441	-5.568	20.96	PASS Anbot	BDR
2480	-4.737	20.96	PASS	BDR
2402	-4.273	20.96	PASS	EDR
2441	-6.191	20.96	PASS	EDR
2480	-4.974	20.96	PASS	EDR

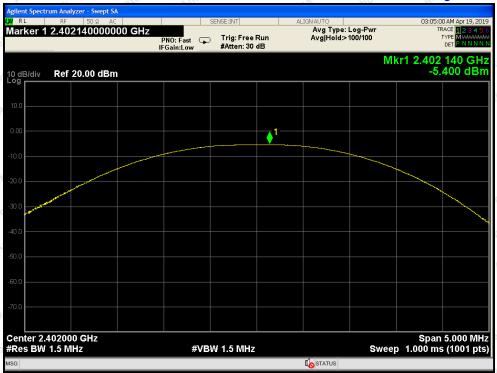




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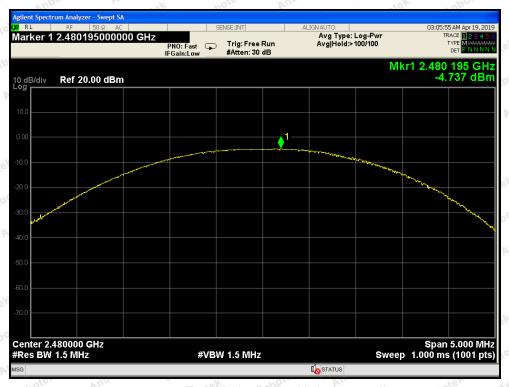
Test Mode: BDR---Low



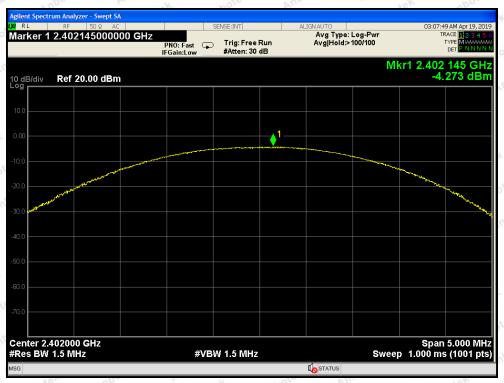
Test Mode: BDR---Middle



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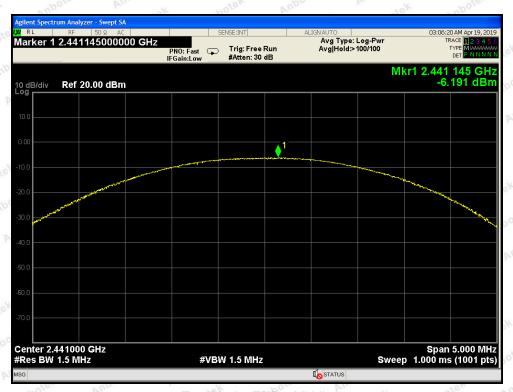
Test Mode: BDR---High



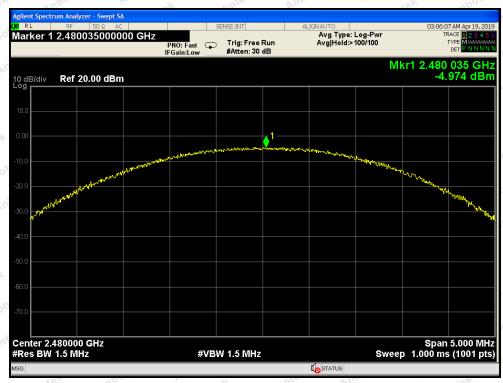
Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



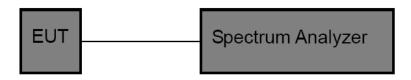
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6. 20DB Occupy Bandwidth Test

6.1. Test Standard

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anbe	abotek	Anbore A
	-16, V	100	D'As.	101

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

22.3℃ DC 3.7V Battery inside Temperature Test Voltage Humidity Test Result **PASS** 49%RH

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
nbotek Low Mabote	2402	849.3	BDR
Middle	2441	847.8	BDR
High	2480	843.0	Anbote BDR And hote
Low	2402	1220	EDR
Middle	2441	1212	EDR
abotek High Anbotek	2480	1211	nbotel EDR

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Test Mode: BDR---Low



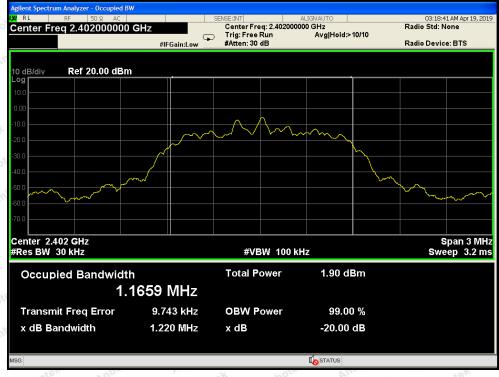
Test Mode: BDR---Middle



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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	Anbore Ar
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbotek	Aupor

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 DC 3.7V Battery inside Temperature 22.3℃ Test Result **PASS** Humidity 49%RH

Channel	Frequency (MHz)	Separation Read Value (kHz)	Limit (kHz)	Modulation Mode
Low	2402	1000	849.3	BDR
Middle	2441	1000	847.8	BDR
High	2480	1000	843.0	BDR
Low	2402	1000	813.3	EDR
Middle	2441	1000	808.0	EDR
High	2480	1000	807.3	EDR

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Test Mode: BDR---Low



Test Mode: BDR---Middle



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Test Mode: BDR---High



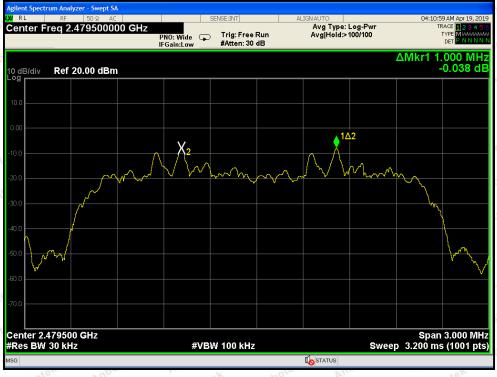
Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



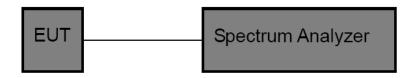
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8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C	Section 15.2	247 (a)(1)	Ann	Anbotek	Anbore A
Test Limit	>15 channels	. nbotek	Anbote.	Ann	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

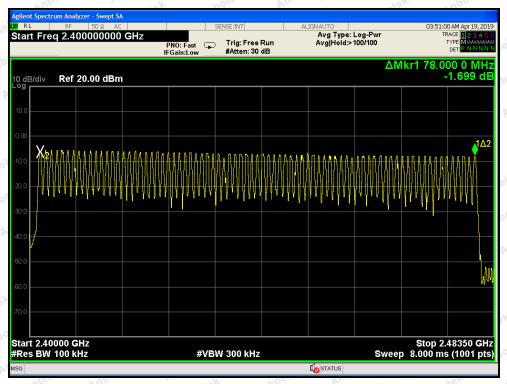
Test Item : Number of Hopping Frequency Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside : Temperature : 22.3℃ Test Result : PASS Humidity : 49%RH

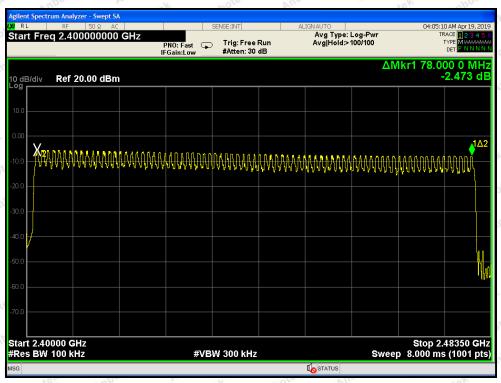
Hopping Channel Frequency Range	Quantity of Hopping Channel	Quantity of Hopping Channel	
2402-2480MHz	And And Botek And	>15	



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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)	Anbe	Anbotek	Ambolicak	D.
Test Limit	0.4 sec	A. nbotek	Anbote	Ann	Anbotek	Anbore	

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 ~ CH High

22.3℃ Test Voltage DC 3.7V Battery inside Temperature Test Result **PASS** Humidity 49%RH

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.406	time slot length *1600/2 /79 * 31.6	129.92	0.4	BDR
DH3	1.660	time slot length *1600/4 /79 * 31.6	265.60	0.4	BDR
DH5	2.912	time slot length *1600/6 /79 * 31.6	310.61	0.4	BDR BDR
2DH1	0.412	time slot length *1600/2 /79 * 31.6	131.84	0.4	otek EDR Anb
2DH3	1.655	time slot length *1600/4 /79 * 31.6	264.80	0.4	EDR
2DH5	2.904	time slot length *1600/6 /79 * 31.6	309.76	0.4	EDR

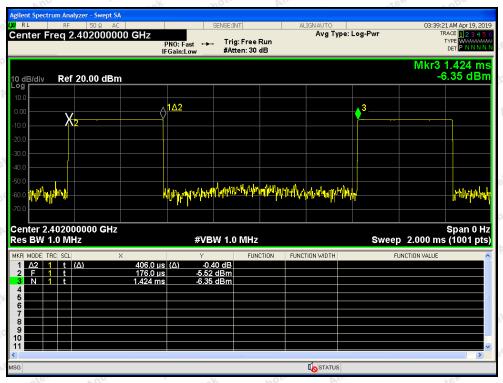
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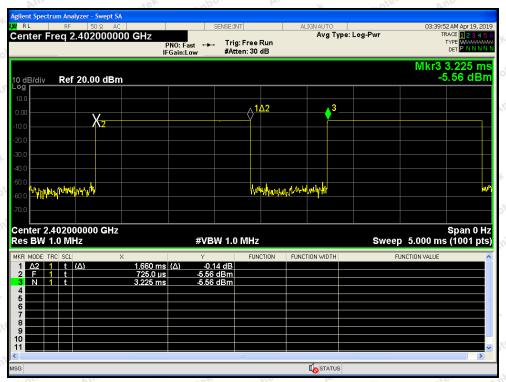
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Test Mode: BDR---DH1



Test Mode: BDR---DH3

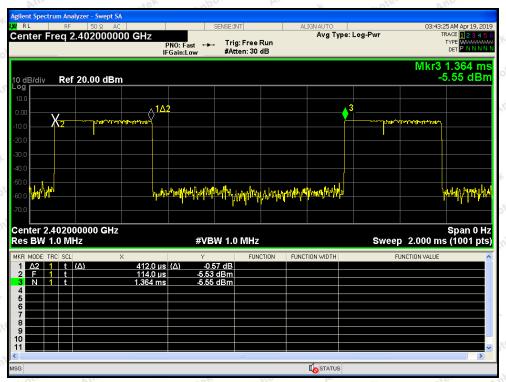
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Test Mode: BDR---DH5

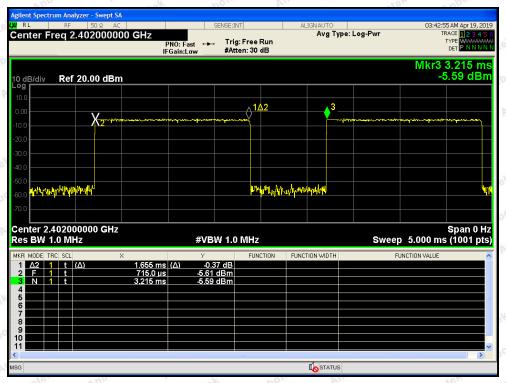


Test Mode: EDR---2DH1

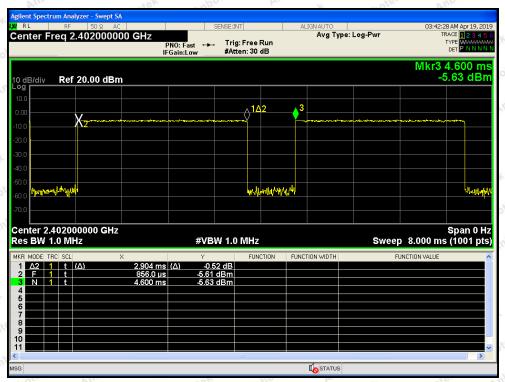
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Test Mode: EDR---2DH3



Test Mode: EDR---2DH5

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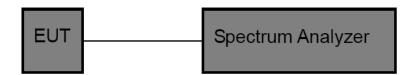
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10. 100kHz Bandwidth of Frequency Band Edge Requirement

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.
- 6. Allow trace to fully stabilize.

10.4. Test Data

Test Item : Band edge Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside : Temperature : 22.3° C Test Result : PASS : Humidity : 49%RH

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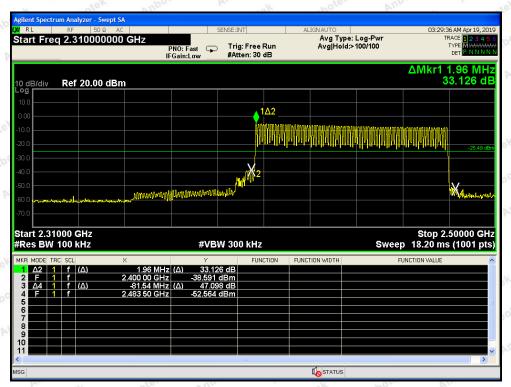




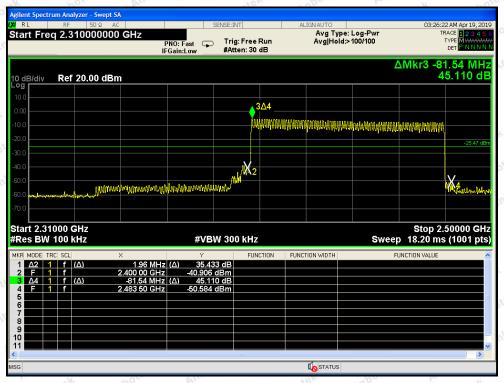
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For Hopping Mode



BDR mode



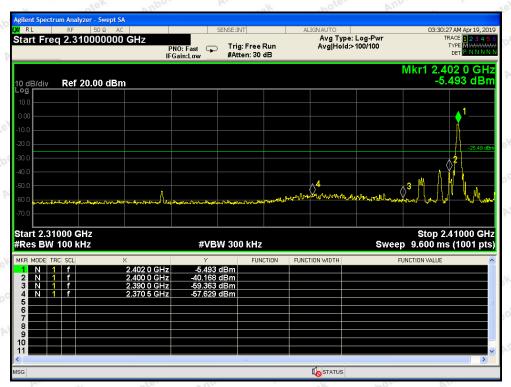
EDR mode



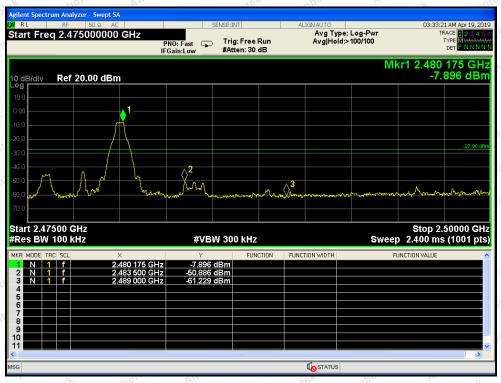
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For Non-Hopping Mode



BDR mode -- Lowest



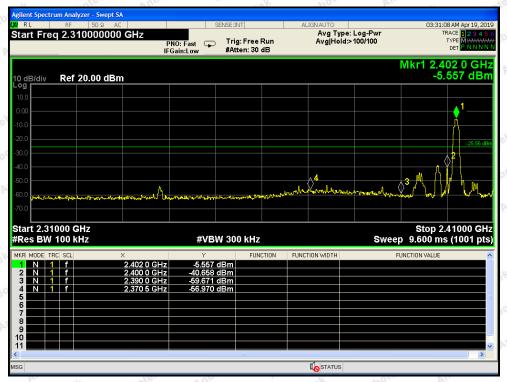
BDR mode -- Highest



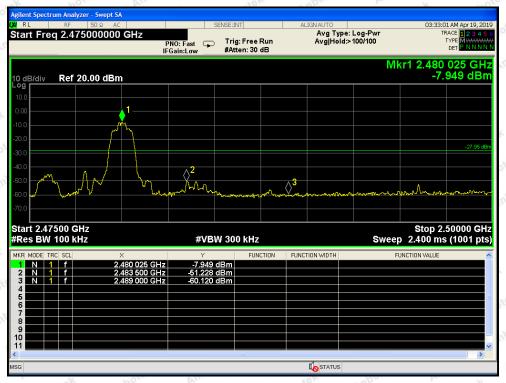
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For Non-Hopping Mode



EDR mode -- Lowest



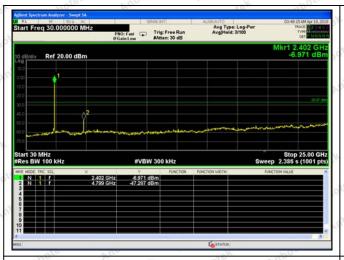
EDR mode -- Highest

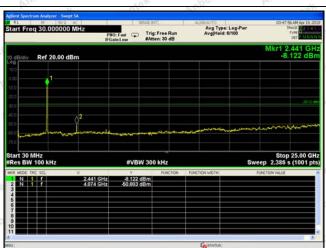


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Conducted Emission Method

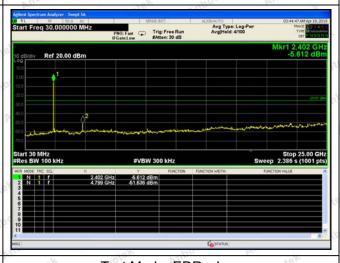




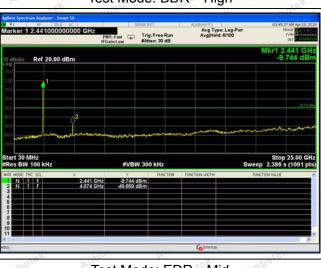
Test Mode: BDR---Low

Avg Type: Log-Pwr Avg[Hold: 4/100 Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Ref 20.00 dBn Stop 25.00 GHz Sweep 2.386 s (1001 pts)

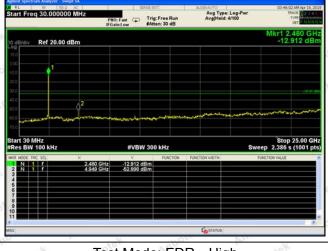
Test Mode: BDR---Mid



Test Mode: BDR---High



Test Mode: EDR---Low



Test Mode: EDR---Mid

Test Mode: EDR---High



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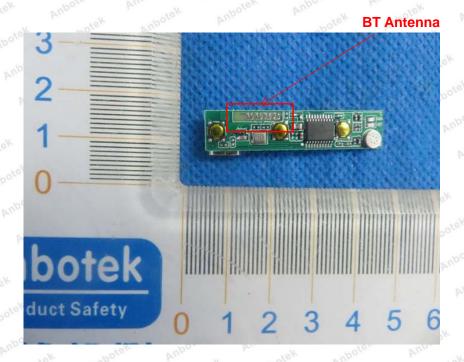
11. Antenna Requirement

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 -0.58 dBi. It complies with the standard requirement.



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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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APPENDIX III -- INTERNAL PHOTOGRAPH



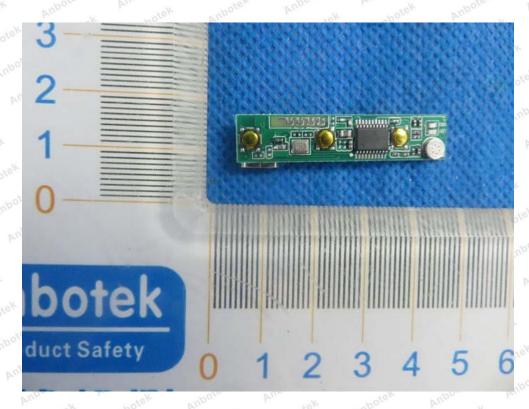


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--- End of Report -----