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FCC TEST REPORT

Client Name : Sudio AB

Address : Artillerigatan 42, 114 45, Stockholm, Sweden

Product Name : Bluetooth Headphone

Date : Feb. 21, 2020

Shenzhen Anbotek Compliance Laboratory Limited





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TEST REPORT

Applicant : Sudio AB

Manufacturer : Dongguan Koppo Electronics Co.,Ltd.

Product Name : Bluetooth Headphone

Model No. : Sudio Elva

Trade Mark : Sudio

Rating(s) : Input: DC 5V, 120mA (with DC 3.7V, 120 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
Date of Test
Dec. 16, 2019
Dec. 16, 2019~Feb. 17, 2020

Prepared by

(Engineer / Dolly Mo)

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

A 11 1	All telk utbosek Andre K hosek Anton All
Applicant	: Sudio AB
Address	: Artillerigatan 42, 114 45, Stockholm, Sweden
Manufacturer	Dongguan Koppo Electronics Co.,Ltd.
Address	No.2 Road 3, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town,
71001033	Dongguan City, Guangdong Province, China
Factory	: Dongguan Koppo Electronics Co.,Ltd.
Address	No.2 Road 3, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town,
71441000	Dongguan City, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	Bluetooth Headphone	notek Anbotek Anbotek Anbotek
Model No.	:	Sudio Elva	And Anbotek Anbotek Anbote
Trade Mark	:	Sudio	Anbotek Anboter Anb
Test Power Supply	:	AC 120V, 60Hz for adapter/ D	OC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
		Operation Frequency:	2402MHz~2480MHz
		Transfer Rate:	BT 5.0 EDR: 1/2/3 Mbits/s BT 5.0 BLE: 1 Mbits/s
Product		Number of Channel:	BT 5.0 EDR: 79 Channels BT 5.0 BLE: 40 Channels
Description		Modulation Type:	BT 5.0 EDR: GFSK, π/4-DQPSK, 8-DPSK BT 5.0 BLE: GFSK
		Antenna Type:	Ceramic Antenna
d		Antenna Gain(Peak):	2.9 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 5.0 EDR module.

Hotline 400-003-0500



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1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: ZTE	anborek
		M/N: STC-A2050I1000USBA-C	abotek
		S/N: 201202102100876	VII.
		Input: 100-240V~ 50/60Hz, 0.3A	Anb
		Output: DC 5V, 1000mA	lek Wupo,

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	inbo ntek Anbotek Anbo	CH00	inbotek Anbotek
Mode 2	GFSK	CH39	Anbotek Anbotek Anbotek
Mode 3	And hotek Anbotek	CH78	Anbotes And hotek Anbotes
Mode 4	Am botek Ambotek	CH00	k Anbores Anborek Anbo
Mode 5	π/4-DQPSK	CH39	TX+ Charging Mode/TX Only
Mode 6	obo. Anbotek Anbo	CH78	nbotek Anbo stek Anbotek
Mode 7	Anbo anbotek An	CH00	Anbores Anborek Anborek
Mode 8	8-DPSK	CH39	Anbotek Anbotek Anbotek
Mode 9	ak hotek Anbotek	CH78	Anboten Anbo botek 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.

Hotline 400-003-0500 www.anbotek.com



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1.5. List of channels

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	41,000	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
11,000	2413	28	2430	45	2447	62	2464		
12	2414	29	2431	46	2448	63	2465		
13	2415	30	2432	47	2449	64	2466		
14	2416	31	2433	48	2450	65	2467		
15	2417	32	2434	49	2451	66	2468		700
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.

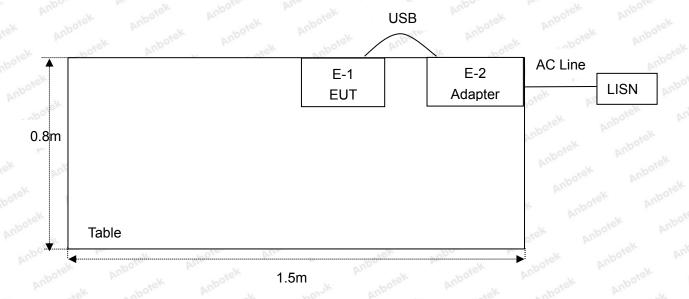


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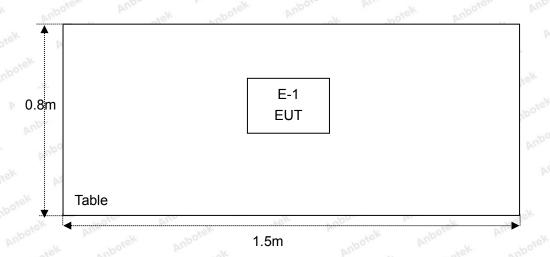
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1.6. Description Of Test Setup

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1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.	
1.Ant	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.nb	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	
Anbore 7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 01, 2019	1 Year	
8.	8. Loop Antenna Schwarzbeck 9. Horn Antenna A-INFO		FMZB1519B	00053	Nov. 01, 2019	1 Year	
9.			LB-180400-K	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)
		Ur = 3.8 dB (Vertical)
4		potek Anbor Ark Anborek Anborek Anborek Anbor
Conduction Uncertainty	:	Uc = 3.4 dB

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





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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

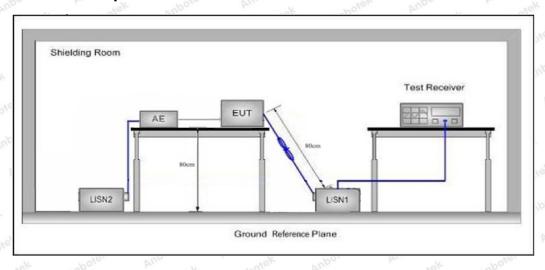
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.20	7 tek anbotek Anbo			
	Fraguenay	Maximum RF Li	ne Voltage (dBuV)		
Test Limit	Frequency	Quasi-peak Level	Average Level		
	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

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

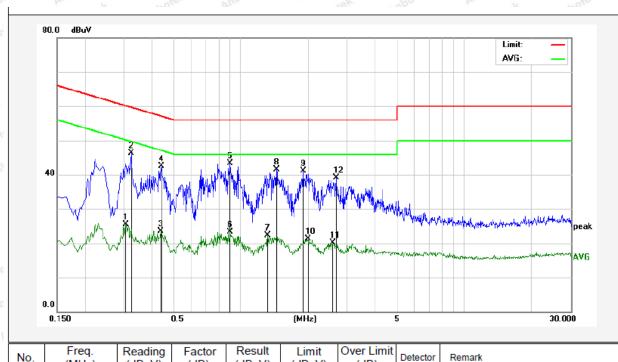
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 24.6°C Hum.: 48%



	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
ſ	1	0.3060	5.59	19.89	25.48	50.08	-24.60	AVG	
	2	0.3220	26.32	19.90	46.22	59.65	-13.43	QP	
	3	0.4380	3.61	19.95	23.56	47.10	-23.54	AVG	
1	4	0.4420	22.50	19.95	42.45	57.02	-14.57	QP	
ſ	5	0.8980	23.31	20.09	43.40	56.00	-12.60	QP	
	6	0.8980	3.12	20.09	23.21	46.00	-22.79	AVG	
ſ	7	1.3180	2.26	20.13	22.39	46.00	-23.61	AVG	
	8	1.4460	21.31	20.13	41.44	56.00	-14.56	QP	
	9	1.9060	20.89	20.14	41.03	56.00	-14.97	QP	
	10	1.9980	1.09	20.14	21.23	46.00	-24.77	AVG	
ſ	11	2.5860	0.05	20.15	20.20	46.00	-25.80	AVG	
	12	2.6660	18.86	20.15	39.01	56.00	-16.99	QP	



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Conducted Emission Test Data

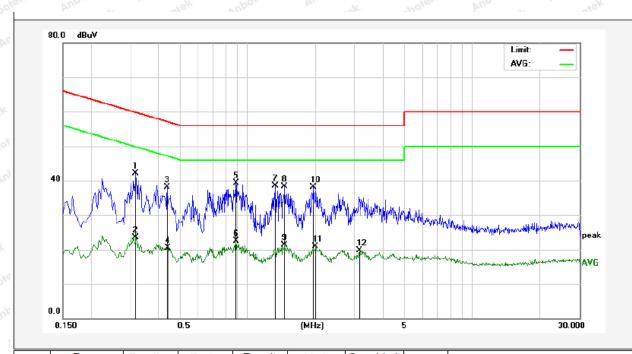
Test Site: 1# Shielded Room

Operating Condition: Mode 1

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 24.6℃ Hum.: 48%



	No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
	1	0.3180	22.28	19.90	42.18	59.76	-17.58	QP	
3	2	0.3180	3.68	19.90	23.58	49.76	-26.18	AVG	
	3	0.4380	18.19	19.95	38.14	57.10	-18.96	QP	
į.	4	0.4420	0.62	19.95	20.57	47.02	-26.45	AVG	
	5	0.8860	19.18	20.09	39.27	56.00	-16.73	QP	
2	6	0.8860	2.33	20.09	22.42	46.00	-23.58	AVG	
	7	1.3300	18.29	20.13	38.42	56.00	-17.58	QP	
	8	1.4580	18.22	20.13	38.35	56.00	-17.65	QP	
	9	1.4580	1.18	20.13	21.31	46.00	-24.69	AVG	
é	10	1.9620	17.93	20.14	38.07	56.00	-17.93	QP	
	11	2.0020	0.75	20.14	20.89	46.00	-25.11	AVG	
	12	3.1619	-0.55	20.16	19.61	46.00	-26.39	AVG	



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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	potek Anbor	-k PU. PO.	iek Anborek
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	Aupo.	A obotek	300
	0.490MHz-1.705MHz	24000/F(kHz)	anbo. se	k apolek	30
	1.705MHz-30MHz	30	Josek Tupo.	otek - nbot	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbo
	88MHz~216MHz	150	43.5	Quasi-peak	Anbotek 3 An
	216MHz~960MHz	200	46.0	Quasi-peak	Ambo*3k
	960MHz~1000MHz	500	54.0	Quasi-peak	Am 3 rek
	Ab 4000MH-	500	54.0	Average	4 3,botek
	Above 1000MHz	Anbo. tek	74.0	Peak	otek 3 Anboth

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

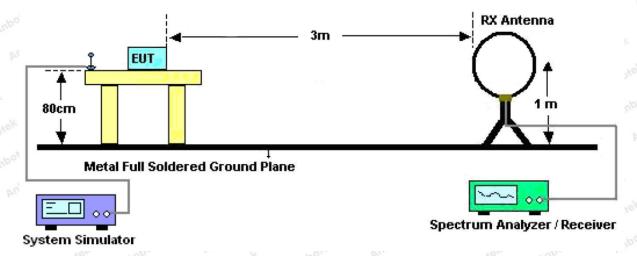


Figure 1. Below 30MHz



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Ant. feed point

Metal Full Soldered Ground Plane

System Simulator

Spectrum Analyzer / Receiver

Figure 2. 30MHz to 1GHz

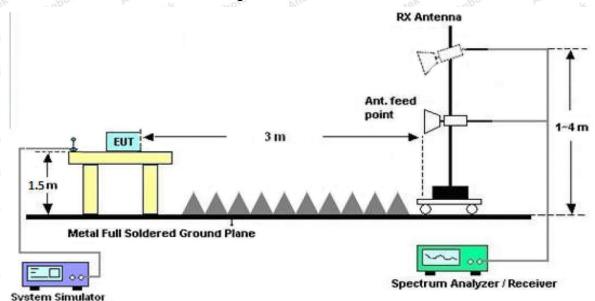


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is $0.8 \mathrm{m}$ 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 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.

Hotline

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400-003-0500



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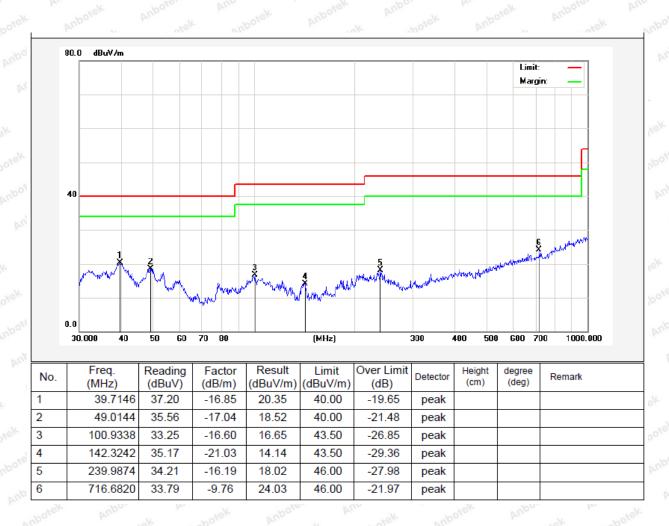
Test Results (30~1000MHz)

Test Mode: Mode 2

Power Source: DC 3.7V Battery inside

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 22.3°C/50%RH





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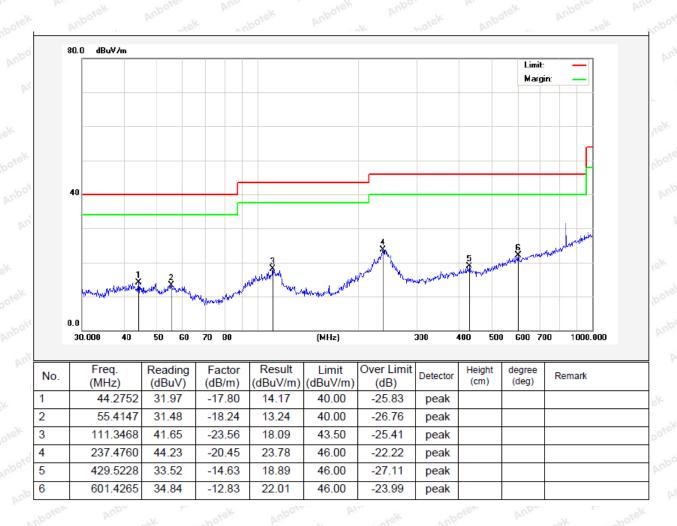
Test Results (30~1000MHz)

Test Mode: Mode 2

Power Source: DC 3.7V Battery inside

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.3℃/50%RH





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Test Results (1GHz-25GHz)

Test Mode:	CH00			Test	channel: Low	/est		
			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	38.18	34.04	6.58	34.09	44.71	74.00	-29.29	V
7206.00	32.41	37.11	7.73	34.50	42.75	74.00	-31.25	V
9608.00	31.98	39.31	9.23	34.79	45.73	74.00	-28.27	o _{ten} V
12010.00	*	Anbotek	Anbo	ek no	otek Anbi	74.00	botek p	nbo's
14412.00	Am*	Anbot	ek Anbo	rek	abotek p	74.00	wotek.	AN Vite
4804.00	42.64	34.04	6.58	34.09	49.17	74.00	-24.83	Hal
7206.00	34.24	37.11	7.73	34.50	44.58	74.00	-29.42	Н
9608.00	31.49	39.31	9.23	34.79	45.24	74.00	-28.76	H Yer
12010.00	Anbore*	Ann	Aupolek	Anbox	rek apo	74.00	N DUL	H
14412.00	Aup &	And	k anbott	Anb.	rek bu	74.00	Dofer b	H
			A۱	verage Valu	е			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804.00	26.83	34.04	6.58	34.09	33.36	54.00	-20.64	V
7206.00	21.00	37.11	7.73	34.50	31.34	54.00	-22.66	V
9608.00	20.02	39.31	9.23	34.79	33.77	54.00	-20.23	anbVe
12010.00	Art.	day s	otek Anb	or by	abotek	54.00	rup - otek	V
14412.00	* AM	otek o	Apotek t	'upo,	ph shotek	54.00	Anbe	٧
4804.00	31.15	34.04	6.58	34.09	37.68	54.00	-16.32	ek H
7206.00	23.23	37.11	7.73	34.50	33.57	54.00	-20.43	Hysto-
9608.00	19.82	39.31	9.23	34.79	33.57	54.00	-20.43	H
12010.00	An*ores	Anbo	lek mo	Hek An	00, bu	54.00	hboten	Anbo H
14412.00	* Anbore	Vup.	100	botek	Aupo.	54.00	anbote.	Aup



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Test Results (1GHz-25GHz)

Test Mode:	CH39			Test	channel: Mid	ldle		
			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	37.55	34.38	6.69	34.09	44.53	74.00	-29.47	V
7323.00	32.00	37.22	7.78	34.53	42.47	74.00	-31.53	V
9764.00	31.62	39.46	9.35	34.80	45.63	74.00	-28.37	V
12205.00	Ans * otek	Anbotek	Anbox	ek ab	otek Anb	74.00	-otek o	nbolok
14646.00	Amb.	Anbor	ek Anbo	rek bu	abotek P	74.00	work.	An Vite
4882.00	41.89	34.38	6.69	34.09	48.87	74.00	-25.13	Har
7323.00	33.77	37.22	7.78	34.53	44.24	74.00	-29.76	Н
9764.00	31.06	39.46	9.35	34.80	45.07	74.00	-28.93	H Yel
12205.00	Aupoter*	Pupp Stek	Vupotek	Anbore	ok wo	74.00	V. Viup	- "Н
14646.00	Aup & Jen	AUD	k anbott	Anb.	rok bu	74.00	poter by	He
			A۱	erage Valu	е	11-		
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	26.34	34.38	6.69	34.09	33.32	54.00	-20.68	V
7323.00	20.66	37.22	7.78	34.53	31.13	54.00	-22.87	Voor
9764.00	19.72	39.46	9.35	34.80	33.73	54.00	-20.27	AnbVel
12205.00	And work	e anb	otek Aup	or by	abolek	54.00	hup - otek	Voc
14646.00	*Amb	stek n	abotek p	upos	ph. spojek	54.00	Anbe	V
4882.00	30.59	34.38	6.69	34.09	37.57	54.00	-16.43	ж Н
7323.00	22.85	37.22	7.78	34.53	33.32	54.00	-20.68	Hote
9764.00	19.48	39.46	9.35	34.80	33.49	54.00	-20.51	H.V
12205.00	An*ofek	Anbo	iek nobi	HEK AN	oo, bu	54.00	aboter	Anbou
14646.00	*nbotel	PUP	*8K	botek	Anbore	54.00	Anbotek	AUPO

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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	36.56	34.72	6.79	34.09	43.98	74.00	-30.02	Λ_{u_l}
7440.00	31.33	37.34	7.82	34.57	41.92	74.00	-32.08	V
9920.00	31.03	39.62	9.46	34.81	45.30	74.00	-28.70	yek V
12400.00	Ann * tek	Anbotek	Anbo.	ek no	otek Anb	74.00	otek p	nbo V
14880.00	Ama * otek	Anbot	ak Anbo	*ek	abotek A	74.00	worek.	AnVite
4960.00	40.69	34.72	6.79	34.09	48.11	74.00	-25.89	Hab
7440.00	33.02	37.34	7.82	34.57	43.61	74.00	-30.39	Н
9920.00	30.38	39.62	9.46	34.81	44.65	74.00	-29.35	rek H
12400.00	Anbore*	Anb. otek	Aupotek	Aupor	rek apo	74.00	Pilip	Н
14880.00	Anb & fee	AUD Of	k anbott	Anbe	rak bu	74.00	poter by	Hiel
			A۱	erage Valu	е	10-		
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	25.58	34.72	6.79	34.09	33.00	54.00	-21.00	V
7440.00	20.15	37.34	7.82	34.57	30.74	54.00	-23.26	ooteV
9920.00	19.27	39.62	9.46	34.81	33.54	54.00	-20.46	AnbVek
12400.00	And And	dring 3	otek Aup	o, by	botek	54.00	hupe	Voo
14880.00	* Ann	ntek .	Apotek P	,nboro	Principalek	54.00	Anbo	V
4960.00	29.73	34.72	6.79	34.09	37.15	54.00	-16.85	∦ H
7440.00	22.28	37.34	7.82	34.57	32.87	54.00	-21.13	Hotel
9920.00	18.94	39.62	9.46	34.81	33.21	54.00	-20.79	HK
12400.00	Antorek	Anto	ek anbi	HOK AN	on bu	54.00	opolek	H
14880.00	* Anbore	Aup	sek h	abotek	Aupore	54.00	Anbotek	Anbo

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.

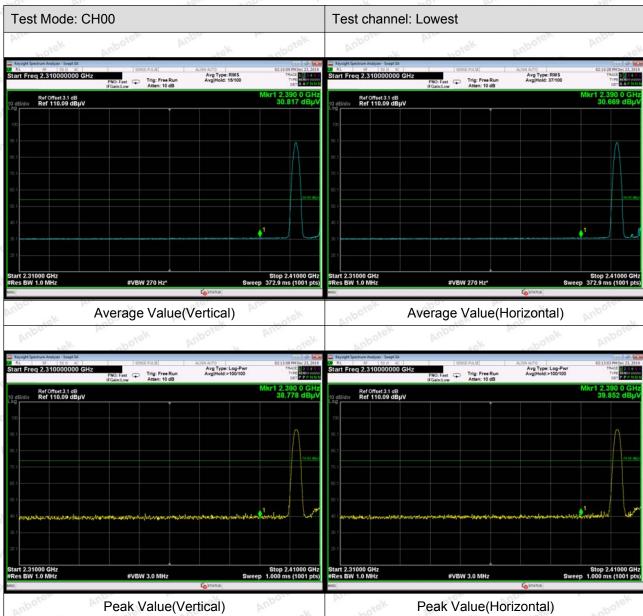
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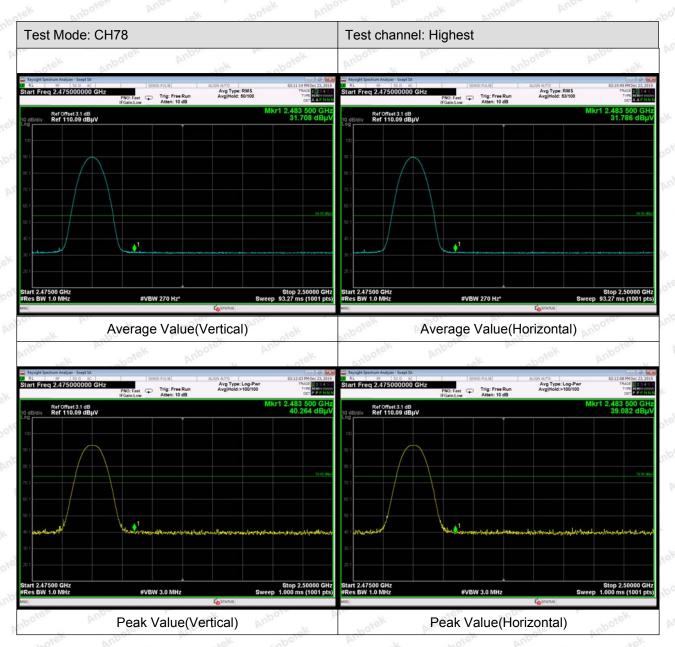
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Radiated Band Edge:





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Remark:

- 1. During the test, pre-scan the GFSK, $\pi/4$ 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





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5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Sec	ction 15.247 (b)(3)	Anbotek	Anbo	anborek.
Test Limit	125mW	Anbore	Arrabotek	Anboten	Anberratek	hoden

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 : 23.2° C

Test Result : PASS Humidity : 49 %

Channel Fre	allency				
(MHz	•	Peak Power output (dBm)	Limit (dBm)	Results	Modulation
2402	An	-2.122	20.96	PASS	botek BDR Anbotes
2441	k 200	-1.780	20.96	PASS	BDR Anbo
2480	rick h.	-1.975	20.96	PASS	BDR
2402	-otek	-2.130	20.96	PASS	EDR
2441	up Polek	-1.820	20.96	PASS	EDR
2480	Ans botel	-2.023	20.96	PASS	notek EDR Inbotek

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

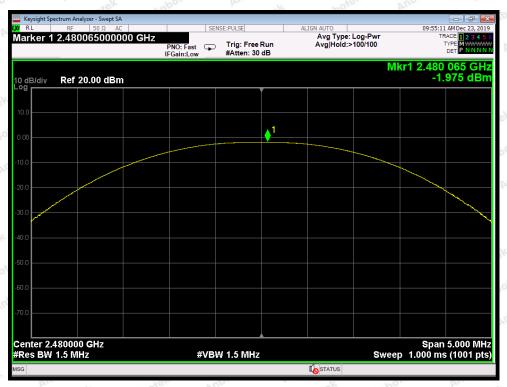


Test Mode: BDR---Middle



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Test Mode: BDR---High



Test Mode: EDR---Low

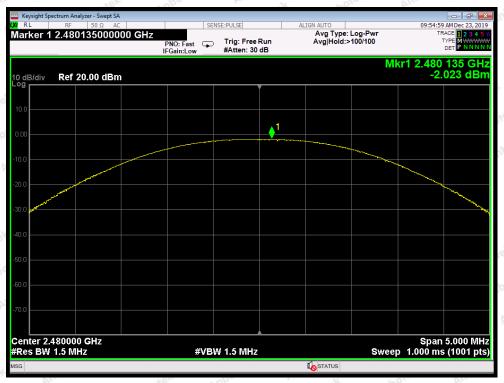


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Test Mode: EDR---Middle



Test Mode: EDR---High



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6. 20DB Occupy Bandwidth Test

6.1. Test Standard

		0,00	OUD.	*ek
Test Standard	FCC Part15 C Section 15.247 (a)(1)			
	All			

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 : DC 3.7V Battery inside Temperature : 23.2° C
Test Result : PASS Humidity : 49 %

Channel	Frequency(MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	1055	BDR
Middle	2441	1055	BDR
High	2480	1051	BDR
Low	2402	1187	EDR
Middle	2441	1189	Amborek EDR Amborek
High	2480	1200	EDR Ambore

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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Hotline





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Test Mode: BDR---Low



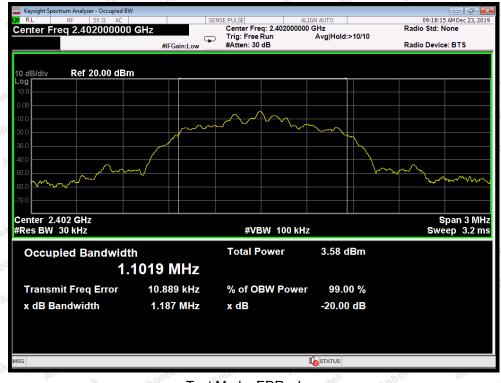
Test Mode: BDR---Middle



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Test Mode: BDR---High



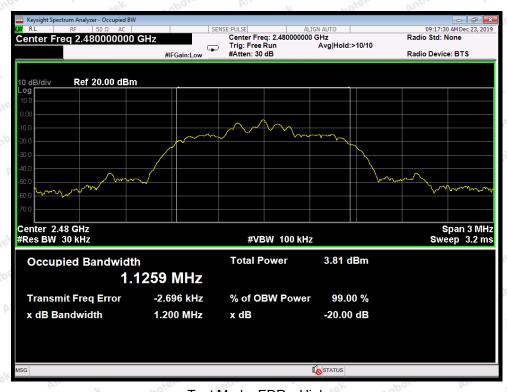
Test Mode: EDR---Low



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Test Mode: EDR---Middle



Test Mode: EDR---High



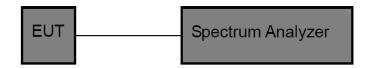
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7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anboten	Anthorek	Anbotek
Test Limit	>25KHz or >two-thirds of the 20 dB bandwidth	Anbore	Y Pur Potek	Anbore

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	:	23.2° C
Test Result	:	PASS	Humidity	:	49 %

Channal	Frequency	Separation Read	Limit	Modulation
Channel	(MHz)	Value (kHz)	(kHz)	Mode
Low	2402	1000	703.3	BDR
Middle	2441	1000	703.3	BDR
High	2480	1000	700.7	BDR
Low	2402	1000	791.3	EDR
Middle	2441	1000	792.7	EDR
High	2480	1000	800.0	orek 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 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



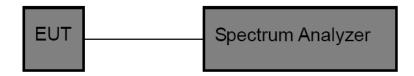
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8. Number of Hopping Channel Test

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Se	ction 15.247 (a)(1)	ek Anbore.	Anumotek	Anbotek
Test Limit	>15 channels	Aupo.	botek Anbote	-k hotek	Anboy

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 23.2° C

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

Hopping Channel Frequency Range	Quantity of Hopping Channel	Quantity of Hopping Channel	
2402-2480MHz	hotek Anb 79	>15	

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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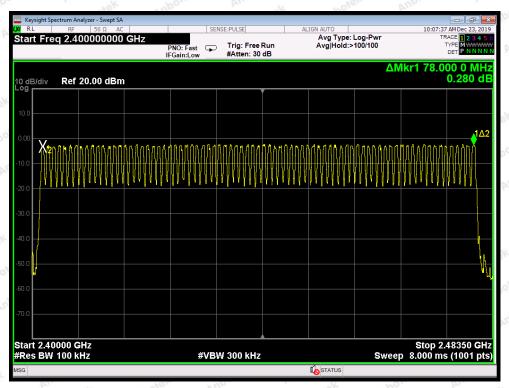
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400-003-0500 www.anbotek.com

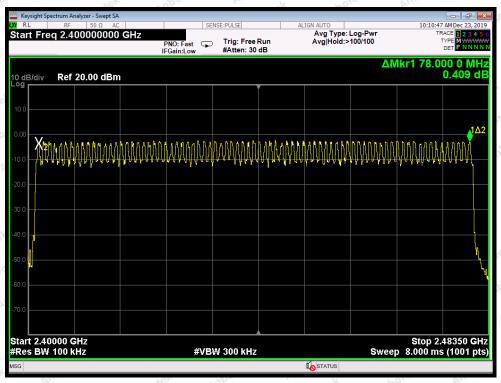


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BDR Mode



EDR Mode



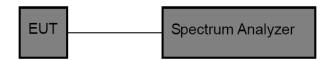
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9. Dwell Time Test

9.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(1)	Anboten	Andwork	Anbotek
Test Limit	0.4 sec	Anbore	k 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 ~ CH High
Test Voltage	:	DC 3.7V Battery inside	Temperature	:	23.2° C

Test Result : PASS Humidity : 49 %

Package	Pulse width		Dwell time	VUn	-0/-
Туре	(ms)	Time slot length(ms)	(ms)	Limit (s)	Modulation
DH1	0.364	time slot length *1600/2 /79 * 31.6	116.48	0.4	BDR
DH3	1.616	time slot length *1600/4 /79 * 31.6	258.56	0.4 pm	BDR
DH5	2.844	time slot length *1600/6 /79 * 31.6	303.36	0.4	BDR
3DH1	0.376	time slot length *1600/2 /79 * 31.6	120.32	0.4	EDR
3DH3	1.624	time slot length *1600/4 /79 * 31.6	259.84	0.4	EDR
3DH5	2.868	time slot length *1600/6 /79 * 31.6	305.92	0.4	EDR

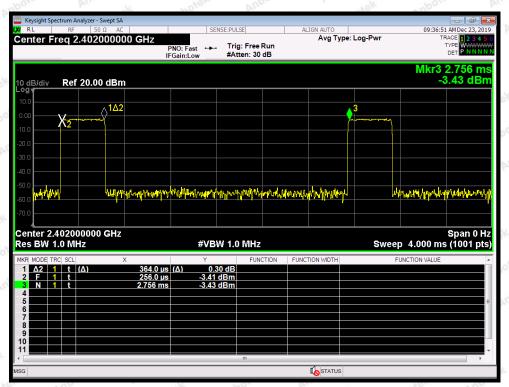
Remark: The EDR was tested on $(\pi/4QPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.

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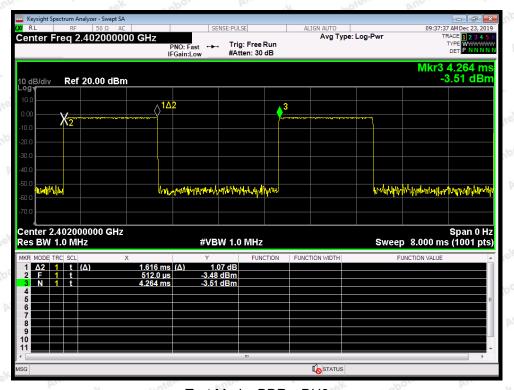




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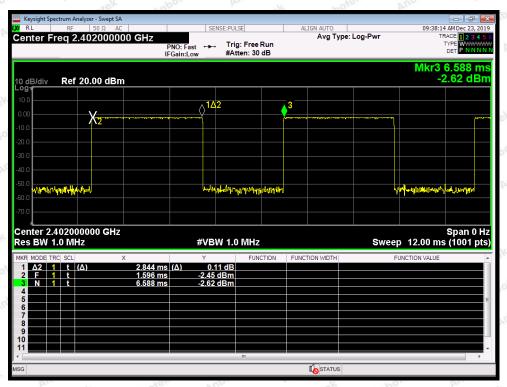
Test Mode: BDR---DH1



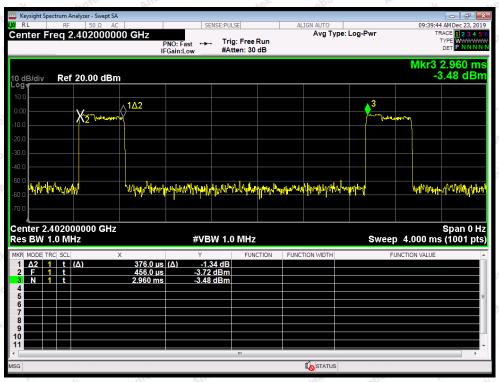
Test Mode: BDR---DH3



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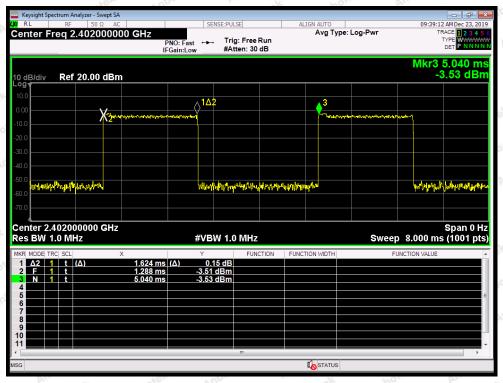
Test Mode: BDR---DH5



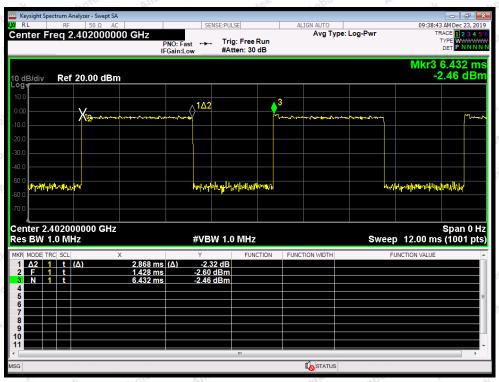
Test Mode: EDR---3DH1



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Test Mode: EDR---3DH3



Test Mode: EDR---3DH5



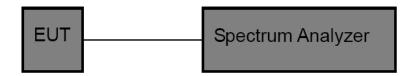
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10. 100kHz Bandwidth of Frequency Band Edge Requirement

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 : DC 3.7V Battery inside Temperature : 23.2° C
Test Result : PASS Humidity : 49 %

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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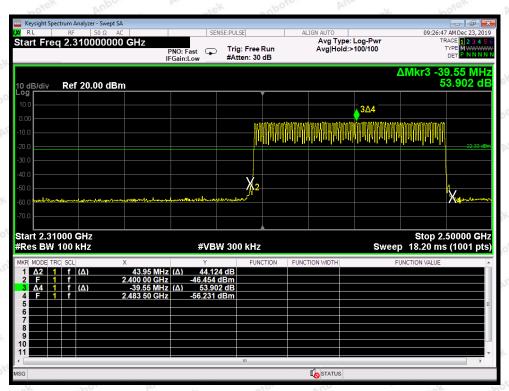




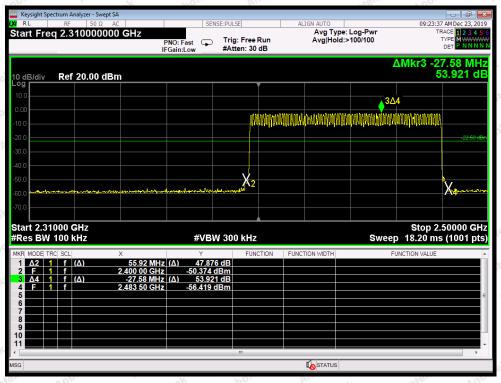
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For Hopping Mode



BDR mode



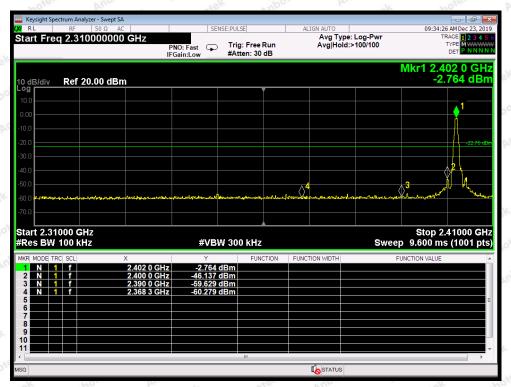
EDR mode



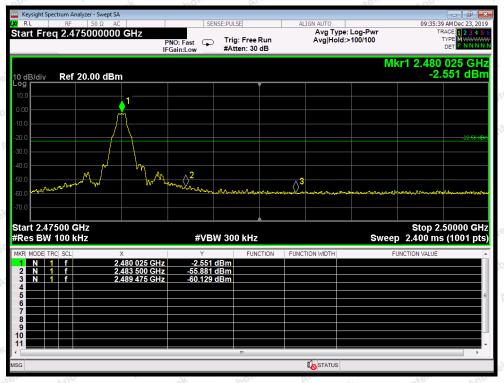
FCC ID: 2AF9P-SUDIOELVA

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For Non-Hopping Mode



BDR mode -- Lowest



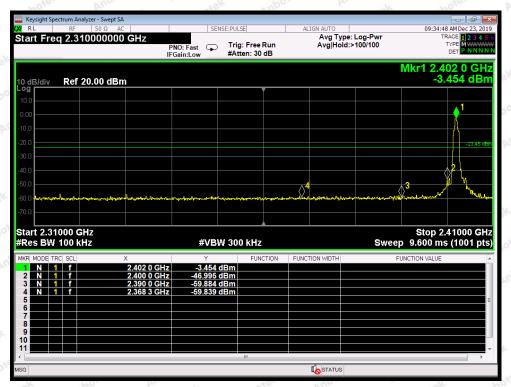
BDR mode -- Highest



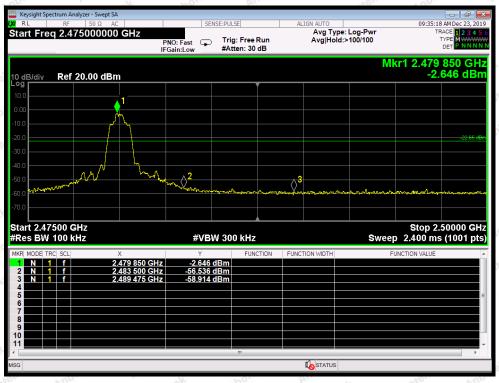
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For Non-Hopping Mode



EDR mode -- Lowest



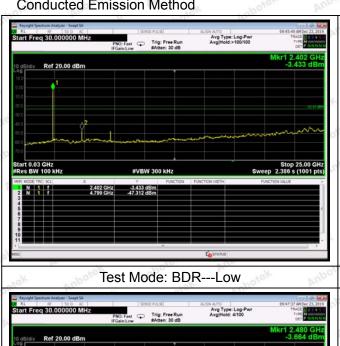
EDR mode -- Highest

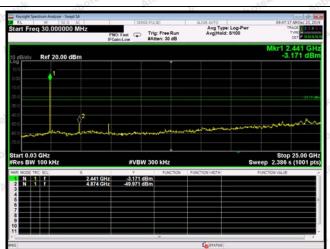


FCC ID: 2AF9P-SUDIOELVA

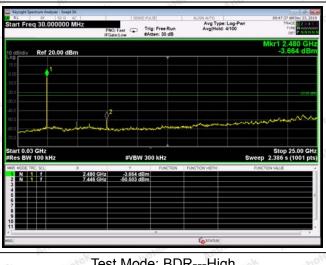
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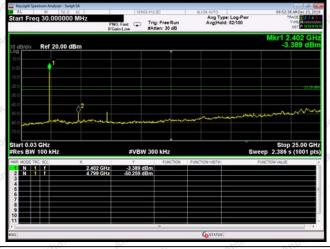
Conducted Emission Method





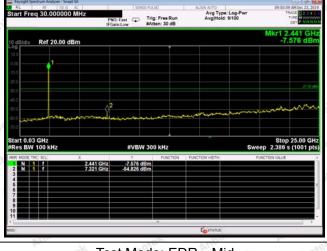
Test Mode: BDR---Mid

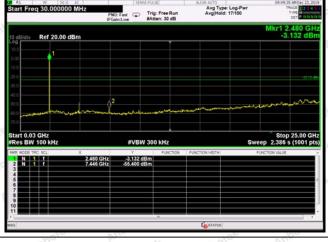




Test Mode: BDR---High

Test Mode: EDR---Low





Test Mode: EDR---Mid

Test Mode: EDR---High



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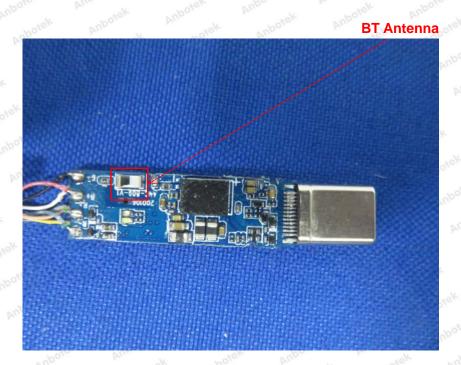
11. Antenna Requirement

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 Ceramic Antenna which permanently attached, and the best case gain of the antenna is 2.9 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 -----

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