





# **RADIO TEST REPORT**

Report No: STS1710171W01

Issued for

SHENZHEN AUKEY E BUSINESS CO., LTD.

Room 102, Bld P09, Huanan International Zone, No.1 Huanan Rd, PinghuTown Longgang District, Shenzhen, China

Product Name:	Bluetooth receiver
Brand Name:	AUKEY
Model Name:	BR-C8
Series Model:	AUKEY
FCC ID:	2AFHP-C8
Test Standard:	FCC Part 15.247

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### TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN AUKEY	E BUSINESS CO.	, LTD.
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Address Room 102, Bld P09, Huanan International Zone, No.1 Huanan Rd,

PinghuTown Longgang District, Shenzhen, China

Manufacture's Name...... Shenzhen MingJiXin Technology Co., Ltd.

Address ...... Shenzhen Guangming New District, Gongming, Haruki, the first

industrial zone 1

**Product description** 

Product Name .....: Bluetooth receiver

Brand Name .....: AUKE

Model Name .....: BR-C8

Series Model .....: AUKEY

Test Standards..... FCC Part15.247

Test procedure ...... ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test .....:

Date (s) of performance of tests...... 24 Oct. 2017~17 Nov. 2017

Date of Issue...... 17 Nov. 2017

Test Result..... Pass

Testing Engineer : Sean She

(Sean she)

Technical Manager :

(Hakim.hou)

Authorized Signatory:

(Vita Li)





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## **Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	17 Nov. 2017	STS1710171W01	ALL	Initial Issue





## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15.247,Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)(3)	Output Power	PASS			
15.247 (c)	Radiated Spurious Emission PASS				
15.247 (d)	Conducted Spurious & Band Edge Emission PASS				
15.247 (e)	Power Spectral Density	PASS			
15.205	Restricted Band Edge Emission	PASS			
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

## NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10-2013





### 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China CNAS Registration No.: L7649; FCC Registration No.: 625569 IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.71dB
4	Spurious emissions,conducted	±0.63dB
5	All emissions,radiated (9KHz-30MHz)	±3.02dB
6	All emissions,radiated (30MHz-200MHz)	±3.80dB
7	All emissions,radiated (200MHz-1000MHz)	±3.97dB
8	All emissions,radiated(>1G)	±3.03dB



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Product Name	Bluetooth receiver		
Trade Name	AUKEY		
Model Name	BR-C8		
Series Model	AUKEY		
Model Difference	Only different in model name and appearance		
Product Description	The EUT is a Bluetooth receiver  Operation Frequency:  Modulation Type:  GFSK  Radio Technology BLE  Number Of Channel 40  Antenna Designation:  Antenna Gain (dBi)  1 dbi		
Channel List	Please refer to the Note 2.		
Adapter	N/A		
Power Rating	DC 5V		
Hardware version number	v1.0		
Software version number	v1.0		
Connecting I/O Port(s)	Please refer to the User's Manual		

### Note:

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



2

			Chan	nel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
01	2402	11	2422	21	2442	31	2462
02	2404	12	2424	22	2444	32	2464
03	2406	13	2426	23	2446	33	2466
04	2408	14	2428	24	2448	34	2468
05	2410	15	2430	25	2450	35	2470
06	2412	16	2432	26	2452	36	2472
07	2414	17	2434	27	2454	37	2474
08	2416	18	2436	28	2456	38	2476
09	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

3.

## Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	<b>AUKEY</b>	BR-C8	PCB Antenna	N/A	1	BLE ANT



### 2.2 DESCRIPTION OF TEST MODES

For conducted test items and radiated spurious emissions Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively..

Worst Mode	Description	Data/Modulation
Mode 1	TX CH1(2402MHz)	1 MHz/GFSK
Mode 2	TX CH20(2440MHz)	1 MHz/GFSK
Mode 3	TX CH40(2480MHz)	1 MHz/GFSK

### Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V,50/60Hz is shown in the report
- (3) The EUT was programmed to be in continuously transmitting with a modulated carrier at maximum power on bottom/middle/top channels as required using the supported data rates/modulation types and the transmit duty cycle is not less than 98%.
- (4) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.

### For AC Conducted Emission

	Test Case
AC Conducted	Mode 4 : Keeping PT TV
Emission	Mode 4 : Keeping BT TX

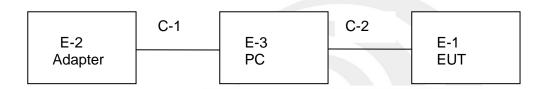


## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

### **Conducted Emission Test**





## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Adapter	N/A	PA-1650-86	N/A	N/A
E-3	PC	HP	500-320cx	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Cable shielded	NO	100am	N/A
C-1	line (Charging)	NO	100cm	IV/A
C-2	USB connecting line	NO	110cm	N/A

### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

adiation Test equipment						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31	
Bilog Antenna	TESEQ	CBL6111D	34678	2017.03.24	2018.03.23	
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.03.06	2018.03.05	
SHF-EHF Horn Antenna (15G-40GHz)	BBHA 9170	SCHWARZBECK	BBHA9170367	2017.05.02	2018.05.01	
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14	
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14	
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11	
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14	
Pre-mplifier (18G-40G)	MINI-CIRCUITS	AP-040G	1382501	2017.05.15	2018.05.14	
Operational Manual Passive Loop (9K30MHz)	ETS	6512	00165355	2017.03.06	2018.03.05	
Low frequency cable	EM	R01	N/A	2017.03.12	2018.03.11	
Low frequency cable	EM	R06	N/A	2017.03.12	2018.03.11	
High frequency cable	SCHWARZBECK	R04	N/A	2017.03.12	2018.03.11	
High frequency cable	SCHWARZBECK	R02	N/A	2017.03/12	2018.03.11	
Semi-anechoic chamber	Changling	966	N/A	2017.10.15	2018.10.14	
trun table	EM	SC100_1	60531	N/A	N/A	
Antnna mast	EM	SC100	N/A	N/A	N/A	
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A	

## Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
conduction Cable	EM	C01	N/A	2017.03.12	2018.03.11
Temperature & Humitidy	Mieo	HH660	N/A	2017.10.15	2018.10.14





Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2017.10.15	2018.10.14
Power Meter	R&S	NRP	100510	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Signal Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10





### 3. EMC EMISSION TEST

### 3.1 CONDUCTED EMISSION MEASUREMENT

### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

EDECLIENCY (MLL-)	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

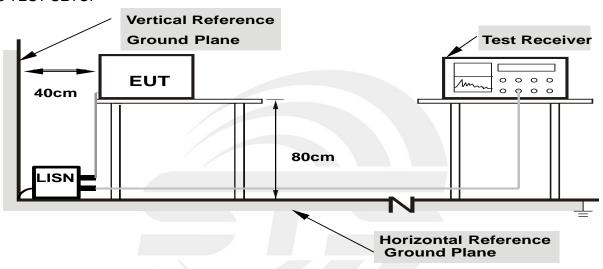
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



### 3.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

### 3.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



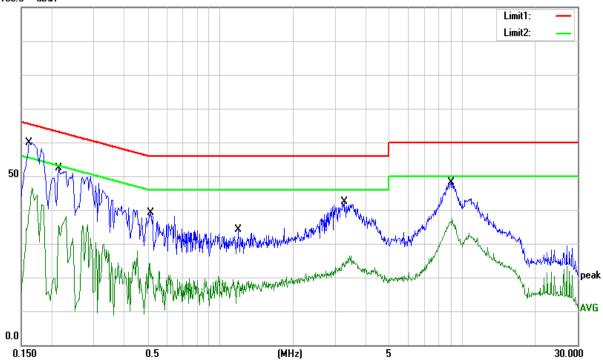
## 3.5 TEST RESULTS

Temperature:	26.5 ℃	Relative Humidity:	68%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1620	50.18	9.79	59.97	65.36	-5.39	QP
0.1620	30.53	9.79	40.32	55.36	-15.04	AVG
0.2140	42.58	9.84	52.42	63.05	-10.63	QP
0.2140	23.90	9.84	33.74	53.05	-19.31	AVG
0.5180	29.06	10.01	39.07	56.00	-16.93	QP
0.5180	11.04	10.01	21.05	46.00	-24.95	AVG
1.1900	24.36	9.80	34.16	56.00	-21.84	QP
1.1900	9.27	9.80	19.07	46.00	-26.93	AVG
3.2420	32.44	9.81	42.25	56.00	-13.75	QP
3.2420	13.59	9.81	23.40	46.00	-22.60	AVG
8.9860	38.01	10.10	48.11	60.00	-11.89	QP
8.9860	27.27	10.10	37.37	50.00	-12.63	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )—Limit 100.0 dBuV



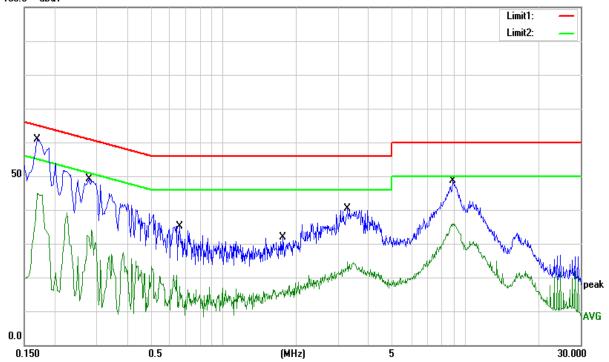


Temperature:	26.5 ℃	Relative Humidity:	68%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1700	51.13	9.80	60.93	64.96	-4.03	QP
0.1700	35.06	9.80	44.86	54.96	-10.10	AVG
0.2780	38.84	10.18	49.02	60.88	-11.86	QP
0.2780	21.00	10.18	31.18	50.88	-19.70	AVG
0.6580	25.31	9.89	35.20	56.00	-20.80	QP
0.6580	3.62	9.89	13.51	46.00	-32.49	AVG
1.7540	21.93	9.85	31.78	56.00	-24.22	QP
1.7540	6.43	9.85	16.28	46.00	-29.72	AVG
3.2700	30.36	9.92	40.28	56.00	-15.72	QP
3.2700	12.02	9.92	21.94	46.00	-24.06	AVG
8.8740	38.71	9.91	48.62	60.00	-11.38	QP
8.8740	25.97	9.91	35.88	50.00	-14.12	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor )—Limit 100.0 dBuV





### 4. RADIATED EMISSION MEASUREMENT

### 4.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)				
	PEAK	AVERAGE			
Above 1000	74	54			

### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	4 MH= / 2 MH=		
band)	1 MHz / 3 MHz		

## For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Ctort/Cton Fraguency	Lower Band Edge: 2300 to 2403 MHz		
Start/Stop Frequency	Upper Band Edge: 2479 to 2500 MHz		
RB / VB (emission in restricted band)	1 MHz / 3 MHz		





Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

### 4.2 TEST PROCEDURE

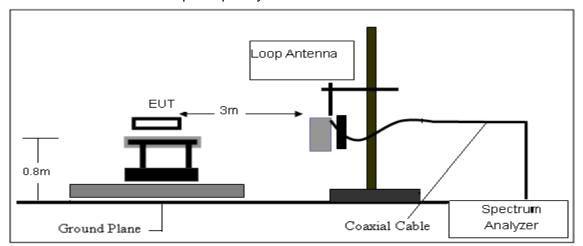
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

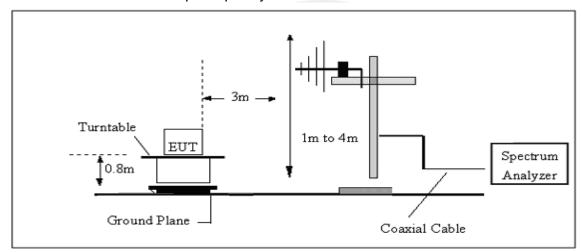


### 4.3 TEST SETUP

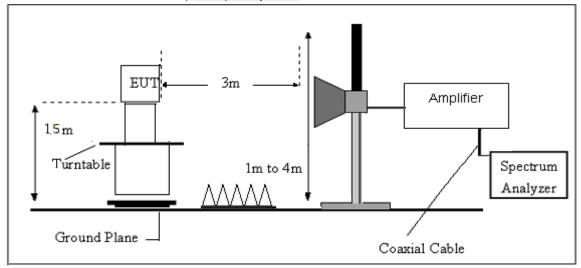
## (A) Radiated Emission Test-Up Frequency Below 30MHz



## (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



## (C) Radiated Emission Test-Up Frequency Above 1GHz



### 4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



### 4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG





### 4.6 TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	24.8 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 5V from PC
Test Mode:	TX Mode	Polarization:	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



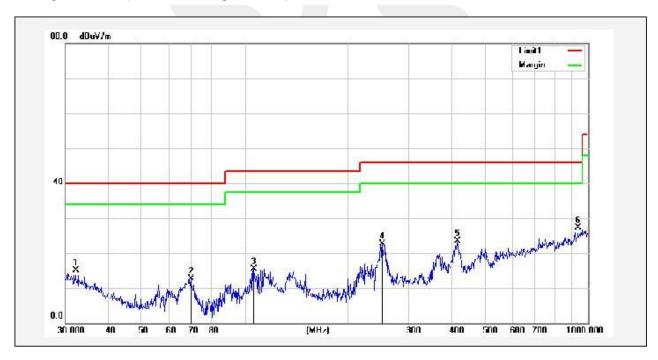
## (30MHz -1000MHz)

Temperature:	<b>24.5</b> ℃	Relative Humidtity:	58%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 5V from PC	Test Mode:	Mode1/2/3 (Mode 1-3M worst mode)

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m) (dBuV/m)		(dB)	
32.1795	27.46	-12.30	15.16	40.00	-24.84	QP
69.6005	36.84	-24.11	12.73	40.00	-27.27	QP
106.0126	34.19	-18.68	15.51	43.50	-27.99	QP
251.1804	38.98	-16.18	22.80	46.00	-23.20	QP
416.1791	34.45	-10.97	23.48	46.00	-22.52	QP
932.2715	28.32	-1.05	27.27	46.00	-18.73	QP

### Remark:

1. Margin = Result (Result = Reading + Factor )-Limit





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Temperature:	<b>24.5</b> ℃	Relative Humidtity:	58%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 5V from PC	LIAST MICAS:	Mode1/2/3 (Mode 1-3M worst mode)

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	dB/m) (dBuV/m) (dBuV/m)		(dB)	
30.4238	33.41	-11.41	22.00	40.00	-18.00	QP
67.9130	45.43	-24.15	21.28	40.00	-18.72	QP
141.3298	41.84	-17.58	24.26	43.50	-19.24	QP
216.0240	42.86	-19.37	23.49	46.00	-22.51	QP
360.4476	39.69	-13.12	26.57	46.00	-19.43	QP
658.8362	33.94	-6.26	27.68	46.00	-18.32	QP

### Remark:

1. Margin = Result (Result = Reading + Factor )—Limit







## (1GHz-25GHz)Restricted band and Spurious emission Requirements

## **GFSK Low Channel**

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				Low	Channel (2402 M	ЛHz)				
3264.73	48.74	44.70	6.70	28.20	-9.80	38.94	74.00	-35.06	PK	Vertical
3264.73	38.12	44.70	6.70	28.20	-9.80	28.32	54.00	-25.68	AV	Vertical
3264.80	48.67	44.70	6.70	28.20	-9.80	38.87	74.00	-35.13	PK	Horizontal
3264.80	38.60	44.70	6.70	28.20	-9.80	28.80	54.00	-25.20	AV	Horizontal
4804.53	58.31	44.20	9.04	31.60	-3.56	54.75	74.00	-19.25	PK	Vertical
4804.53	38.82	44.20	9.04	31.60	-3.56	35.26	54.00	-18.74	AV	Vertical
4804.55	58.14	44.20	9.04	31.60	-3.56	54.58	74.00	-19.42	PK	Horizontal
4804.55	39.57	44.20	9.04	31.60	-3.56	36.01	54.00	-17.99	AV	Horizontal
5359.76	45.87	44.20	9.86	32.00	-2.34	43.53	74.00	-30.47	PK	Vertical
5359.76	37.11	44.20	9.86	32.00	-2.34	34.77	54.00	-19.23	AV	Vertical
5359.57	45.64	44.20	9.86	32.00	-2.34	43.30	74.00	-30.70	PK	Horizontal
5359.57	37.75	44.20	9.86	32.00	-2.34	35.41	54.00	-18.59	AV	Horizontal
7205.97	52.01	43.50	11.40	35.50	3.40	55.41	74.00	-18.59	PK	Vertical
7205.97	32.60	43.50	11.40	35.50	3.40	36.00	54.00	-18.00	AV	Vertical
7205.86	51.63	43.50	11.40	35.50	3.40	55.03	74.00	-18.97	PK	Horizontal
7205.86	32.52	43.50	11.40	35.50	3.40	35.92	54.00	-18.08	AV	Horizontal



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## **GFSK Mid Channel**

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
				Mid	Channel (2440 M	ЛHz)				
3264.89	48.46	44.70	6.70	28.20	-9.80	38.66	74.00	-35.34	PK	Vertical
3264.89	37.86	44.70	6.70	28.20	-9.80	28.06	54.00	-25.94	AV	Vertical
3264.64	48.21	44.70	6.70	28.20	-9.80	38.41	74.00	-35.59	PK	Horizontal
3264.64	38.19	44.70	6.70	28.20	-9.80	28.39	54.00	-25.61	AV	Horizontal
4880.35	58.73	44.20	9.04	31.60	-3.56	55.17	74.00	-18.83	PK	Vertical
4880.35	38.59	44.20	9.04	31.60	-3.56	35.03	54.00	-18.97	AV	Vertical
4880.50	59.58	44.20	9.04	31.60	-3.56	56.02	74.00	-17.98	PK	Horizontal
4880.50	39.18	44.20	9.04	31.60	-3.56	35.62	54.00	-18.38	AV	Horizontal
5359.64	46.19	44.20	9.86	32.00	-2.34	43.85	74.00	-30.15	PK	Vertical
5359.64	37.37	44.20	9.86	32.00	-2.34	35.03	54.00	-18.97	AV	Vertical
5359.75	46.07	44.20	9.86	32.00	-2.34	43.73	74.00	-30.27	PK	Horizontal
5359.75	38.09	44.20	9.86	32.00	-2.34	35.75	54.00	-18.25	AV	Horizontal
7310.72	51.23	43.50	11.40	35.50	3.40	54.63	74.00	-19.37	PK	Vertical
7310.72	33.40	43.50	11.40	35.50	3.40	36.80	54.00	-17.20	AV	Vertical
7310.68	51.20	43.50	11.40	35.50	3.40	54.60	74.00	-19.40	PK	Horizontal
7310.68	32.77	43.50	11.40	35.50	3.40	36.17	54.00	-17.83	AV	Horizontal

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## **GFSK High Channel**

er ercriigh ename									
			Antenna	Corrected	Emission				
Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
			High	Channel (2480	MHz)				
48.30	44.70	6.70	28.20	-9.80	38.50	74.00	-35.50	PK	Vertical
39.32	44.70	6.70	28.20	-9.80	29.52	54.00	-24.48	AV	Vertical
48.85	44.70	6.70	28.20	-9.80	39.05	74.00	-34.95	PK	Horizontal
37.87	44.70	6.70	28.20	-9.80	28.07	54.00	-25.93	AV	Horizontal
59.00	44.20	9.04	31.60	-3.56	55.44	74.00	-18.56	PK	Vertical
38.27	44.20	9.04	31.60	-3.56	34.71	54.00	-19.29	AV	Vertical
58.60	44.20	9.04	31.60	-3.56	55.04	74.00	-18.96	PK	Horizontal
39.40	44.20	9.04	31.60	-3.56	35.84	54.00	-18.16	AV	Horizontal
46.32	44.20	9.86	32.00	-2.34	43.98	74.00	-30.02	PK	Vertical
38.07	44.20	9.86	32.00	-2.34	35.73	54.00	-18.27	AV	Vertical
45.89	44.20	9.86	32.00	-2.34	43.55	74.00	-30.45	PK	Horizontal
37.74	44.20	9.86	32.00	-2.34	35.40	54.00	-18.60	AV	Horizontal
51.65	43.50	11.40	35.50	3.40	55.05	74.00	-18.95	PK	Vertical
32.51	43.50	11.40	35.50	3.40	35.91	54.00	-18.09	AV	Vertical
51.12	43.50	11.40	35.50	3.40	54.52	74.00	-19.48	PK	Horizontal
33.57	43.50	11.40	35.50	3.40	36.97	54.00	-17.03	AV	Horizontal
	(dBµV)  48.30  39.32  48.85  37.87  59.00  38.27  58.60  39.40  46.32  38.07  45.89  37.74  51.65  32.51  51.12	(dBµV) (dB)  48.30 44.70  39.32 44.70  48.85 44.70  59.00 44.20  38.27 44.20  58.60 44.20  39.40 44.20  46.32 44.20  38.07 44.20  45.89 44.20  37.74 44.20  51.65 43.50  51.12 43.50	(dBμV)     (dB)     (dB)       48.30     44.70     6.70       39.32     44.70     6.70       48.85     44.70     6.70       59.00     44.20     9.04       38.27     44.20     9.04       58.60     44.20     9.04       39.40     44.20     9.86       38.07     44.20     9.86       45.89     44.20     9.86       37.74     44.20     9.86       51.65     43.50     11.40       51.12     43.50     11.40	Reading (dBμV)         Amplifier (dB)         Loss (dB/m)         Factor (dB/m)           48.30         44.70         6.70         28.20           39.32         44.70         6.70         28.20           48.85         44.70         6.70         28.20           59.00         44.20         9.04         31.60           38.27         44.20         9.04         31.60           58.60         44.20         9.04         31.60           39.40         44.20         9.04         31.60           46.32         44.20         9.86         32.00           38.07         44.20         9.86         32.00           45.89         44.20         9.86         32.00           37.74         44.20         9.86         32.00           51.65         43.50         11.40         35.50           51.12         43.50         11.40         35.50	Reading (dBμV)         Amplifier (dBμV)         Loss (dB)         Factor (dB/m)         Factor (dB/m)           48.30         44.70         6.70         28.20         -9.80           39.32         44.70         6.70         28.20         -9.80           48.85         44.70         6.70         28.20         -9.80           37.87         44.70         6.70         28.20         -9.80           59.00         44.20         9.04         31.60         -3.56           38.27         44.20         9.04         31.60         -3.56           58.60         44.20         9.04         31.60         -3.56           39.40         44.20         9.86         32.00         -2.34           38.07         44.20         9.86         32.00         -2.34           45.89         44.20         9.86         32.00         -2.34           37.74         44.20         9.86         32.00         -2.34           51.65         43.50         11.40         35.50         3.40           51.12         43.50         11.40         35.50         3.40	Reading (dBμV)         Amplifier (dB)         Loss (dB)         Factor (dB/m)         Factor (dB)         Level (dBμV/m)           High Channel (2480 MHz)           48.30         44.70         6.70         28.20         -9.80         38.50           39.32         44.70         6.70         28.20         -9.80         29.52           48.85         44.70         6.70         28.20         -9.80         39.05           37.87         44.70         6.70         28.20         -9.80         28.07           59.00         44.20         9.04         31.60         -3.56         55.44           38.27         44.20         9.04         31.60         -3.56         55.04           39.40         44.20         9.04         31.60         -3.56         55.04           39.40         44.20         9.86         32.00         -2.34         43.98           38.07         44.20         9.86         32.00         -2.34         43.55           37.74         44.20         9.86         32.00         -2.34         43.55           37.74         44.20         9.86         32.00         -2.34         35.40           51.65         43.50 <td>Reading (dBμV)         Amplifier (dB)         Loss (dB/m)         Factor (dB/m)         Level (dBμV/m)         Limits (dBμV/m)           High Channel (2480 MHz)           48.30         44.70         6.70         28.20         -9.80         38.50         74.00           39.32         44.70         6.70         28.20         -9.80         39.05         74.00           48.85         44.70         6.70         28.20         -9.80         39.05         74.00           37.87         44.70         6.70         28.20         -9.80         28.07         54.00           59.00         44.20         9.04         31.60         -3.56         55.44         74.00           38.27         44.20         9.04         31.60         -3.56         55.04         74.00           39.40         44.20         9.04         31.60         -3.56         55.04         74.00           38.07         44.20         9.86         32.00         -2.34         43.98         74.00           38.07         44.20         9.86         32.00         -2.34         43.55         74.00           37.74         44.20         9.86         32.00         -2.34         35.40</td> <td>Reading (dBμV)         Amplifier (dBμV)         Loss (dB)         Factor (dBμM)         Eactor (dB)         Level (dBμV/m)         Limits (dBμV/m)         Margin (dBμV/m)           High Channel (2480 MHz)           48.30         44.70         6.70         28.20         -9.80         38.50         74.00         -35.50           39.32         44.70         6.70         28.20         -9.80         29.52         54.00         -24.48           48.85         44.70         6.70         28.20         -9.80         39.05         74.00         -34.95           37.87         44.70         6.70         28.20         -9.80         28.07         54.00         -25.93           59.00         44.20         9.04         31.60         -3.56         55.44         74.00         -18.56           38.27         44.20         9.04         31.60         -3.56         55.04         74.00         -18.96           39.40         44.20         9.04         31.60         -3.56         55.04         74.00         -18.16           46.32         44.20         9.86         32.00         -2.34         43.98         74.00         -30.02           38.07         44.20         9.86</td> <td>Reading (dBμV)         Amplifier (dBμV)         Loss (dB)         Factor (dB/m)         Level (dBμV/m)         Limits (dBμV/m)         Margin (dBμV/m)         Detector (dBμV/m)           High Channel (2480 MHz)           High Channel (2480 MHz)           48.30         44.70         6.70         28.20         -9.80         38.50         74.00         -35.50         PK           39.32         44.70         6.70         28.20         -9.80         29.52         54.00         -24.48         AV           48.85         44.70         6.70         28.20         -9.80         39.05         74.00         -34.95         PK           37.87         44.70         6.70         28.20         -9.80         28.07         54.00         -25.93         AV           59.00         44.20         9.04         31.60         -3.56         55.44         74.00         -18.56         PK           38.27         44.20         9.04         31.60         -3.56         55.04         74.00         -18.96         PK           39.40         44.20         9.86         32.00         -2.34         43.98         74.00         -38.96         PK           38.07         44.20</td>	Reading (dBμV)         Amplifier (dB)         Loss (dB/m)         Factor (dB/m)         Level (dBμV/m)         Limits (dBμV/m)           High Channel (2480 MHz)           48.30         44.70         6.70         28.20         -9.80         38.50         74.00           39.32         44.70         6.70         28.20         -9.80         39.05         74.00           48.85         44.70         6.70         28.20         -9.80         39.05         74.00           37.87         44.70         6.70         28.20         -9.80         28.07         54.00           59.00         44.20         9.04         31.60         -3.56         55.44         74.00           38.27         44.20         9.04         31.60         -3.56         55.04         74.00           39.40         44.20         9.04         31.60         -3.56         55.04         74.00           38.07         44.20         9.86         32.00         -2.34         43.98         74.00           38.07         44.20         9.86         32.00         -2.34         43.55         74.00           37.74         44.20         9.86         32.00         -2.34         35.40	Reading (dBμV)         Amplifier (dBμV)         Loss (dB)         Factor (dBμM)         Eactor (dB)         Level (dBμV/m)         Limits (dBμV/m)         Margin (dBμV/m)           High Channel (2480 MHz)           48.30         44.70         6.70         28.20         -9.80         38.50         74.00         -35.50           39.32         44.70         6.70         28.20         -9.80         29.52         54.00         -24.48           48.85         44.70         6.70         28.20         -9.80         39.05         74.00         -34.95           37.87         44.70         6.70         28.20         -9.80         28.07         54.00         -25.93           59.00         44.20         9.04         31.60         -3.56         55.44         74.00         -18.56           38.27         44.20         9.04         31.60         -3.56         55.04         74.00         -18.96           39.40         44.20         9.04         31.60         -3.56         55.04         74.00         -18.16           46.32         44.20         9.86         32.00         -2.34         43.98         74.00         -30.02           38.07         44.20         9.86	Reading (dBμV)         Amplifier (dBμV)         Loss (dB)         Factor (dB/m)         Level (dBμV/m)         Limits (dBμV/m)         Margin (dBμV/m)         Detector (dBμV/m)           High Channel (2480 MHz)           High Channel (2480 MHz)           48.30         44.70         6.70         28.20         -9.80         38.50         74.00         -35.50         PK           39.32         44.70         6.70         28.20         -9.80         29.52         54.00         -24.48         AV           48.85         44.70         6.70         28.20         -9.80         39.05         74.00         -34.95         PK           37.87         44.70         6.70         28.20         -9.80         28.07         54.00         -25.93         AV           59.00         44.20         9.04         31.60         -3.56         55.44         74.00         -18.56         PK           38.27         44.20         9.04         31.60         -3.56         55.04         74.00         -18.96         PK           39.40         44.20         9.86         32.00         -2.34         43.98         74.00         -38.96         PK           38.07         44.20

### Note:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
 Emission Level = Reading + Factor

The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



## 4.6 TEST RESULTS (Restricted Bands Requirements)

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
					GFSK					
2390.00	67.19	43.80	4.91	25.90	-12.99	54.20	74.00	-19.80	PK	Vertical
2390.00	54.04	43.80	4.91	25.90	-12.99	41.05	54.00	-12.95	AV	Vertical
2390.00	69.21	43.80	4.91	25.90	-12.99	56.22	74.00	-17.78	PK	Horizontal
2390.00	53.15	43.80	4.91	25.90	-12.99	40.16	54.00	-13.84	AV	Horizontal
2483.50	70.13	43.80	5.12	25.90	-12.78	57.35	74.00	-16.65	PK	Vertical
2483.50	53.16	43.80	5.12	25.90	-12.78	40.38	54.00	-13.62	AV	Vertical
2483.50	69.76	43.80	5.12	25.90	-12.78	56.98	74.00	-17.02	PK	Horizontal
2483.50	52.44	43.80	5.12	25.90	-12.78	39.66	54.00	-14.34	AV	Horizontal

 $Low\ measurement\ frequencies\ is\ range\ from\ 2300\ to\ 2403\ MHz,\ high\ measurement\ frequencies\ is\ range\ from\ 2479\ to\ 2500\ MHz.$ 

Only show the worst point data of the emissions in the frequency 2300-2403 MHz and 2479-2500 MHz.





### 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

### 5.1 REQUIREMENT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is 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, based on either an RF conducted or a radiated measurement.

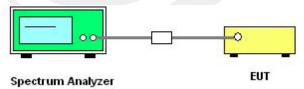
### **5.2 TEST PROCEDURE**

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

## For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stan Fraguenay	Lower Band Edge: 2300 – 2403 MHz
Start/Stop Frequency	Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

### 5.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

### 5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

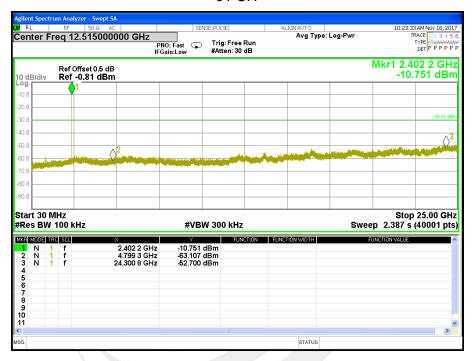




## 5.5 TEST RESULTS

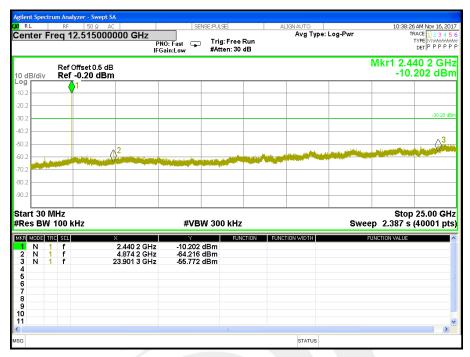
Temperature:	25 ℃	Relative Humidity:	50%
Pressure:	1012 hPa	Test Voltage:	DC 5V
Test Mode:	TX Mode /CH01, CH20, CH40		

## 01 CH

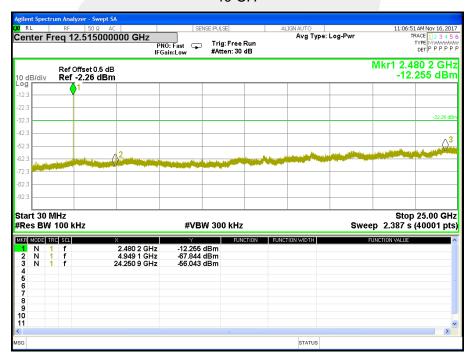




### 20 CH

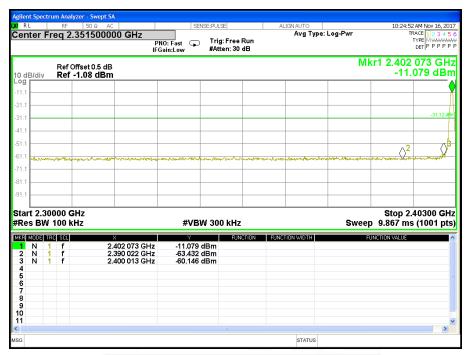


### 40 CH

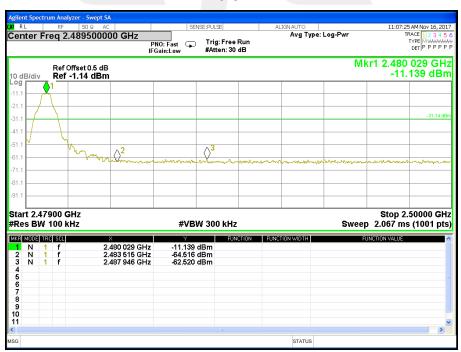




### 01 CH



### 40 CH





## 6. POWER SPECTRAL DENSITY TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS		

### **6.2 TEST PROCEDURE**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to:  $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$ .
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 6.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### **6.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



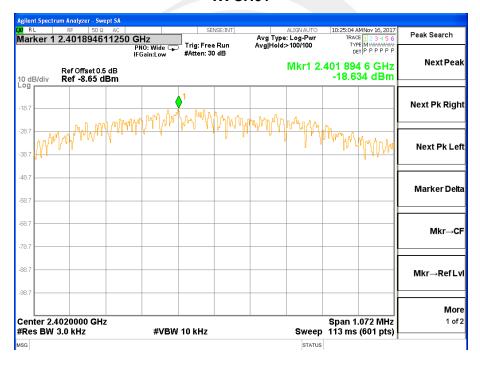


## 6.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V
Test Mode:	TX Mode /CH01, CH20, CH40		

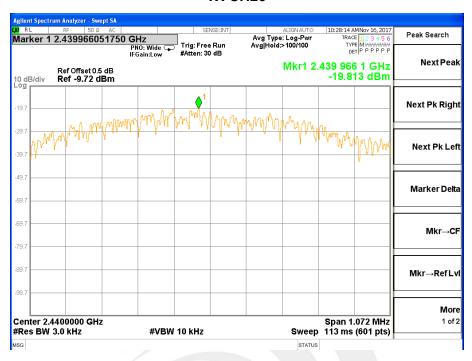
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2402 MHz	-18.634	≤8	PASS
2440 MHz	-19.813	≤8	PASS
2480 MHz	-20.476	≤8	PASS

## **TX CH01**

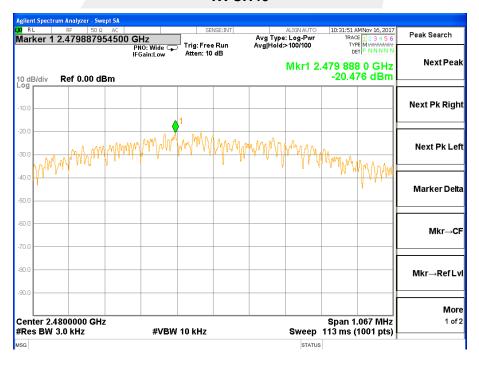




### TX CH20



### **TX CH40**







### 7. BANDWIDTH TEST

### 7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS		

### 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW  $\geqslant$ RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geqslant$  dB.

### 7.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### 7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

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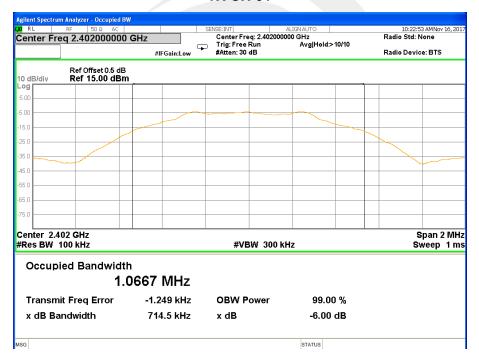


## 7.5 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V
Test Mode:	TX Mode /CH01, CH20, CH40		

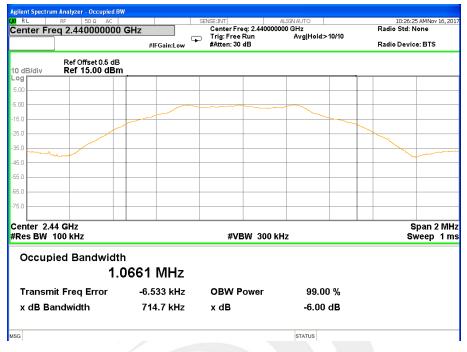
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	0.715	>=500KHz	PASS
2440 MHz	0.715	>=500KHz	PASS
2480 MHz	0.711	>=500KHz	PASS

## **TX CH 01**





### **TX CH 20**



### **TX CH 40**





## 8. PEAK OUTPUT POWER TEST

### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

### **8.2 TEST PROCEDURE**

a. The EUT was directly connected to the Power Meter

### 8.3 TEST SETUP



### 8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

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## 8.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V
Test Mode:	TX Mode /CH01, CH20, CH40		

TX Mode				
Test Channel	Frequency	Conducted Output Power		LIMIT
rest Chamilei	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH01	2402	-7.68	-9.62	30
CH20	2440	-7.59	-9.50	30
CH40	2480	-7.12	-9.19	30



### 9. ANTENNA REQUIREMENT

### 9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

### 9.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.





## **Radiated Measurement Photos**







## **Conducted Measurement Photos**



\* \* \* \* \* END OF THE REPORT \* \* \* \*