



# **FCC TEST REPORT** FCC ID:2ATI7STK-7040RG

Report Number....: ZKT-220726L5226E

Date of issue ...... August 9, 2022

Test Result .....: PASS

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Applicant's name .....: SHENZHEN SAITAKE ELECTRONIC CO., LTD.

NO.1 1/F&3F, BLOCK 5, TIANFU'AN INDUSTRIAL PARK, Address .....: LEZHUJIAO VILLAGE, HUANGMABU COMMUNITY,

HANGCHENG STREET, BAO'AN DISTRICT, SHENZHEN, China

Manufacturer's name .....: SHENZHEN SAITAKE ELECTRONIC CO., LTD.

NO.1 1/F&3F, BLOCK 5, TIANFU'AN INDUSTRIAL PARK,

Address .....: LEZHUJIAO VILLAGE, HUANGMABU COMMUNITY,

HANGCHENG STREET, BAO'AN DISTRICT, SHENZHEN, China

Test specification:

Standard..... FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2013

Test procedure.....: /

Non-standard test method .....: N/A

Test Report Form No. .....: TRF-EL-111\_V0

Test Report Form(s) Originator ....: ZKT Testing

Master TRF ..... Dated: 2020-01-06

This device described above has been tested by ZKT, and 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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Product name .....: Wireless Controller

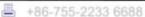
Trademark .....: : ---

Model/Type reference...... STK-7040RG, STK-7040, STK-8040SRG, STK-8040S, Q232

Ratings :: Input: DC 5V/0.5A, Output: DC 3.7V by battery

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Testing	procedure	and	testing	location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address :: 1/F, No. 101, Building B, No. 6, Tangwei Community

Industrial Avenue, Fuhai Street, Bao'an District,

Shenzhen, China

Tested by (name + signature) .....:

Reviewer (name + signature)...... Jackson Fang

Approved (name + signature) ...... Lake Xie

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	Table of Contents		Page
1.VERSION			5
2. SUMMARY OF TEST I	RESULTS		6
2.1 TEST FACILITY			7
2.2 MEASUREMENT UN	NCERTAINTY		7
3. GENERAL INFORMAT	TION		8
3.1 GENERAL DESCRI	PTION OF EUT		8
3.2 DESCRIPTION OF 1	TEST MODES	1	10
3.3 BLOCK DIGRAM SH	HOWING THE CONFIGURATION OF SYSTEM TEST	ΓED 1	10
3.4 DESCRIPTION OF S	SUPPORT UNITS(CONDUCTED MODE)	1	10
3.5 EQUIPMENTS LIST			11
4. EMC EMISSION TEST		1	13
4.1 CONDUCTED EMIS	SION MEASUREMENT	1	13
4.1.1 POWER LINE	CONDUCTED EMISSION LIMITS	1	13
4.1.2 TEST PROCED	DURE	1	13
	ROM TEST STANDARD		13
4.1.4 TEST SETUP		-	14
4.1.5 EUT OPERATI			14
4.2.1 RADIATED EM			17
4.2.2 TEST PROCEI	OURE ROM TEST STANDARD		18 18
4.2.4 TEST SETUP	TOW TEST STANDARD		18
4.2.5 EUT OPERATI	NG CONDITIONS		19
5.RADIATED BAND EMI	SSION MEASUREMENT	2	24
5.1 TEST REQUIRE		2	24
5.2 TEST PROCEDU			24
	M TEST STANDARD		24
5.4 TEST SETUP	2 CONDITIONS		25
5.5 EUT OPERATING	GCONDITIONS		25 26
5.6 TEST RESULT		4	26
<b>6.POWER SPECTRAL D</b>	ENSITY TEST	2	27
6.1 APPLIED PROCI			27
6.2 TEST PROCEDU			27
6.3 DEVIATION FRO	M STANDARD		27
6.4 TEST SETUP	N CONDITIONS		27
6.5 EUT OPERATION	N CONDITIONS		27
6.6 TEST RESULT		4	28

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Table of Contents	Page
7. CHANNEL BANDWIDTH	30
7.1 APPLIED PROCEDURES / LIMIT	30
7.2 TEST PROCEDURE	30
7.3 DEVIATION FROM STANDARD	30
7.4 TEST SETUP	30
7.5 EUT OPERATION CONDITIONS	30
7.6 TEST RESULT	31
8.PEAK OUTPUT POWER TEST	33
8.1 APPLIED PROCEDURES / LIMIT	33
8.2 TEST PROCEDURE	33
8.3 DEVIATION FROM STANDARD	33
8.4 TEST SETUP	33
8.5 EUT OPERATION CONDITIONS	33
8.6 TEST RESULT	34
9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION	35
9.1 APPLICABLE STANDARD	35
9.2 TEST PROCEDURE	35
9.3 DEVIATION FROM STANDARD	35
9.4 TEST SETUP	35
9.5 EUT OPERATION CONDITIONS	35
10.ANTENNA REQUIREMENT	38
11. TEST SETUP PHOTO	39
12. EUT CONSTRUCTIONAL DETAILS	39



Project No.: ZKT-220726L5226E Page 5 of 39

## 1.VERSION

Report No.	Version	Description	Approved
ZKT-220726L5226E	Rev.01	Initial issue of report	August 9, 2022
-		C. C.	~~

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Project No.: ZKT-220726L5226E

Page 6 of 39

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
FCC part 15.203/15.247 (c)	Antenna requirement	PASS		
FCC part 15.207	AC Power Line Conducted Emission	PASS		
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS		
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS		
FCC part 15.247 (e)	Power Spectral Density	PASS		
FCC part 15.247(d)	Band Edge	PASS	0.0	
FCC part 15.205/15.209	Spurious Emission	PASS		

## NOTE:

(1)"N/A" denotes test is not applicable in this Test Report





## 2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add.: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an

District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299 IC Registered No.: 27033

## 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U · where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 · providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty	
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB	
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB	B
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB	
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB	
5	Conducted disturbance	U=3.2dB	
6	RF Band Edge	U=1.68dB	
7	RF power conducted	U=1.86dB	
8	RF conducted Spurious Emission	U=2.2dB	
9	RF Occupied Bandwidth	U=1.8dB	
10	RF Power Spectral Density	U=1.75dB	
11	humidity uncertainty	U=5.3%	١.
12	Temperature uncertainty	U=0.59°C	











3. GENERAL INFORMATION

## 3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless Controller		
Model No.:	STK-7040RG, STK-7040, STK-8040SRG, STK-8040S, Q232		
Model Different.:	Only for different colors		
Serial No.:	N/A		
Hardware Version:	V1.0		
Software Version:	V1.0		
Sample(s) Status:	Engineer sample		
Operation Frequency:	2402MHz~2480MHz		
Channel Numbers:	40		
Channel Separation:	2MHz		
Modulation Type:	GFSK		
Antenna Type:	PCB ANT		
Antenna gain:	0dBi		
Power supply:	Input: DC 5V/0.5A, Output: DC 3.7V by battery		
SWITCHING POWER	N/A		
ADAPTER:	IN/A		

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

## Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



Project No.: ZKT-220726L5226E

Page 10 of 39

## 3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode	
Charging mode	Keep the EUT in Charging mode.	
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just		

voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

Test Software	BT_TOOL
Power level setup	<7dBm

## 3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

**Conducted Emission** 

DC Line	EUT

**Radiated Emission** 

**Conducted Spurious** 

EUT	

## 3.4 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.	Series No.	Note
E-1	Wireless	N/A	STK-7040RG	NI/A	FUT
E-1	Controller	IN/A	31K-7040KG	N/A	EUT
A-1	Notebook Computer	Lenovo	ThinkPad E15 Gen 2	SPP0R39975	Auxiliary
A-2	Adapter	UGREEN	CD226	10375	Auxiliary
				210	

Item	Shielded Type	Ferrite Core	Length	Note
100	22			
10	- T		107 DX	

## 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.

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## 3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Project No.: ZKT-220726L5226E Page 11 of 39

## Radiation Test equipment

1   Spectrum Analyzer (gkHz-26,GHz)	Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	110111				7.40		
Test Receiver (9kHz-7GHz)	1	(9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 22, 2021	Sep. 21, 2022
Sep. 22, 2021   Sep. 21, 2022	2	(1GHz-40GHz)	Agilent	E4446A	100363	Sep. 22, 2021	Sep. 21, 2022
4   (30MHz-1400MHz)   Schwarzbeck   Voltagins   Vol	3		R&S	ESCI7	101169	Sep. 22, 2021	Sep. 21, 2022
Sep. 22, 2021   Sep. 21, 2022   Sep. 21, 20	4	•	Schwarzbeck	VULB9168	00877	Sep. 22, 2021	Sep. 21, 2022
Sep. 22, 2021   Sep. 21, 2022   Sep. 22, 2021   Sep. 21, 2022   Sep. 21, 2022   Sep. 22, 2021   Sep. 21, 2022   Sep. 22, 2021   Sep. 21, 2022   Sep. 21, 2022   Sep. 22, 2021   Sep. 21, 2022   Sep. 21, 20	5			BBHA9120D	1541	Sep. 22, 2021	Sep. 21, 2022
/         (30-1000MHz)         EM Electronics         Amplifier         N/A         Sep. 22, 2021         Sep. 21, 2022           8         Amplifier (1GHz-40GHz)         全聚达         DLE-161         097         Sep. 22, 2021         Sep. 21, 2022           9         Loop Antenna (9KHz-30MHz)         SCHWARZBEC K         FMZB1519B         014         Sep. 22, 2021         Sep. 21, 2022           10         RF cables1 (9kHz-30MHz)         N/A         9kHz-30MHz         N/A         Sep. 22, 2021         Sep. 21, 2022           11         RF cables2 (30MHz-1GHz)         N/A         30MHz-1GHz         N/A         Sep. 22, 2021         Sep. 21, 2022           12         RF cables3 (1GHz-40GHz)         N/A         1GHz-40GHz         N/A         Sep. 22, 2021         Sep. 21, 2022           13         CMW500 Test         R&S         CMW500         106504         Sep. 22, 2021         Sep. 21, 2022           14         ESG Signal Generator         Agilent         E4421B         GB40051203         Sep. 22, 2021         Sep. 21, 2022           15         Signal Generator         Agilent         N5182A         MY47420215         Sep. 22, 2021         Sep. 21, 2022           16         D.C. Power Supply         LongWei         TPR-6405D         \	6		A.H. System	SAS-574	588	Sep. 22, 2021	Sep. 21, 2022
Sep. 22, 2021   Sep. 21, 2022   Sep. 21, 20	7	(30-1000MHz)	EM Electronics		N/A	Sep. 22, 2021	Sep. 21, 2022
9	8		,	DLE-161	097	Sep. 22, 2021	Sep. 21, 2022
10	9	•		FMZB1519B	014	Sep. 22, 2021	Sep. 21, 2022
11	10		N/A	9kHz-30MHz	N/A	Sep. 22, 2021	Sep. 21, 2022
12         (1GHz-40GHz)         N/A         1GHz-40GHz         N/A         Sep. 22, 2021         Sep. 21, 2022           13         CMW500 Test         R&S         CMW500         106504         Sep. 22, 2021         Sep. 21, 2022           14         ESG Signal Generator         Agilent         E4421B         GB40051203         Sep. 22, 2021         Sep. 21, 2022           15         Signal Generator         Agilent         N5182A         MY47420215         Sep. 22, 2021         Sep. 21, 2022           16         D.C. Power Supply         LongWei         TPR-6405D         \         \         \         \           17         MWRF Power Meter Test system         MW         MW100-RPCB         \         Sep. 22, 2021         Sep. 21, 2022           17         EMC Software         Frad         EZ-EMC         Ver.EMC-CON 3A1.1         \         \           18         RF Software         MW         MTS8310         V2.0.0.0         \         \           19         Turntable         MF         MF-7802BS         \         \         \	11		N/A	30MHz-1GHz	N/A	Sep. 22, 2021	Sep. 21, 2022
14         ESG Signal Generator         Agilent         E4421B         GB40051203         Sep. 22, 2021         Sep. 21, 2022           15         Signal Generator         Agilent         N5182A         MY47420215         Sep. 22, 2021         Sep. 21, 2022           16         D.C. Power Supply         LongWei         TPR-6405D         \         \         \         \           17         MWRF Power Meter Test system         MW         MW100-RPCB         \         Sep. 22, 2021         Sep. 21, 2022           17         EMC Software         Frad         EZ-EMC         Ver.EMC-CON 3A1.1         \         \           18         RF Software         MW         MTS8310         V2.0.0.0         \         \           19         Turntable         MF         MF-7802BS         \         \         \	12		N/A	1GHz-40GHz	N/A	Sep. 22, 2021	Sep. 21, 2022
14         Generator         Agilent         E4421B         GB40051203         Sep. 22, 2021         Sep. 21, 2022           15         Signal Generator         Agilent         N5182A         MY47420215         Sep. 22, 2021         Sep. 21, 2022           16         D.C. Power Supply         LongWei         TPR-6405D         \         \         \         \           17         MWRF Power Meter Test system         MW         MW100-RPCB         \         Sep. 22, 2021         Sep. 21, 2022           17         EMC Software         Frad         EZ-EMC         Ver.EMC-CON 3A1.1         \         \         \           18         RF Software         MW         MTS8310         V2.0.0.0         \         \         \           19         Turntable         MF         MF-7802BS         \         \         \         \	13	CMW500 Test	R&S	CMW500	106504	Sep. 22, 2021	Sep. 21, 2022
16         D.C. Power Supply         LongWei         TPR-6405D         \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	14		Agilent	E4421B	GB40051203	Sep. 22, 2021	Sep. 21, 2022
17         MWRF Power Meter Test system         MW         MW100-RPCB         \         Sep. 22, 2021         Sep. 21, 2022           17         EMC Software         Frad         EZ-EMC         Ver.EMC-CON 3A1.1         \         \         \         \           18         RF Software         MW         MTS8310         V2.0.0.0         \         \         \           19         Turntable         MF         MF-7802BS         \         \         \         \	15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 22, 2021	Sep. 21, 2022
17         Meter Test system         MW         MW100-RPCB         \ Sep. 22, 2021         Sep. 21, 2022           17         EMC Software         Frad         EZ-EMC         Ver.EMC-CON 3A1.1         \ \         \           18         RF Software         MW         MTS8310         V2.0.0.0         \ \         \           19         Turntable         MF         MF-7802BS         \ \         \ \         \	16	D.C. Power Supply	LongWei	TPR-6405D		1	\
17         EMC Software         Frad         EZ-EMC         Ver.EMC-CON 3A1.1         \         \           18         RF Software         MW         MTS8310         V2.0.0.0         \         \           19         Turntable         MF         MF-7802BS         \         \         \	17		MW	MW100-RPCB	1	Sep. 22, 2021	Sep. 21, 2022
19 Turntable MF MF-7802BS \	17		Frad	EZ-EMC		\	١
	18	RF Software	MW	MTS8310	V2.0.0.0	\	\
20 Antenna tower MF MF-7802BS \	19	Turntable	MF	MF-7802BS	1	\	\
Zo Milenia lower Wil 700ZDO	20	Antenna tower	MF	MF-7802BS	1	1	\









Conduction Test equipment

Project No.: ZKT-220726L5226E Page 12 of 39

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	N/A	Sep. 22, 2021	Sep. 21, 2022
2	LISN	CYBERTEK	EM5040A	N/A	Sep. 22, 2021	Sep. 21, 2022
3	Test Cable	N/A	C01	N/A	Sep. 22, 2021	Sep. 21, 2022
4	Test Cable	N/A	C02	N/A	Sep. 22, 2021	Sep. 21, 2022
5	EMI Test Receiver	R&S	ESCI3	101421	Sep. 22, 2021	Sep. 21, 2022
6	Triple-Loop Antenna	LAPLACE	RF300	9194	Sep. 22, 2021	Sep. 21, 2022
7	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 22, 2021	Sep. 21, 2022
8	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	1	\

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### 4. EMC EMISSION TEST

## 4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard	
PREQUENCY (MHZ)	Quas -peak	Average	Staridard	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC	
0.50 -5.0	56.00	46.00	FCC	
5.0 -30.0	60.00	50.00	FCC	

#### Note:

(1) \*Decreases with the logarithm of the frequency.

## 4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal 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.

### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation









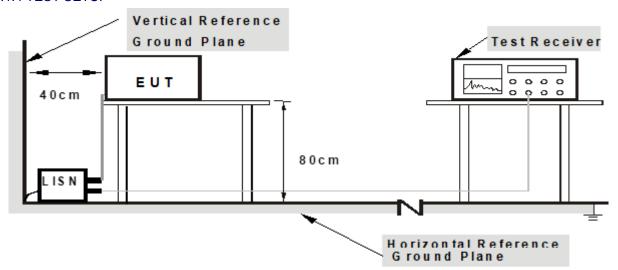








#### 4.1.4 TEST SETUP



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

## 4.1.5 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 Charging during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

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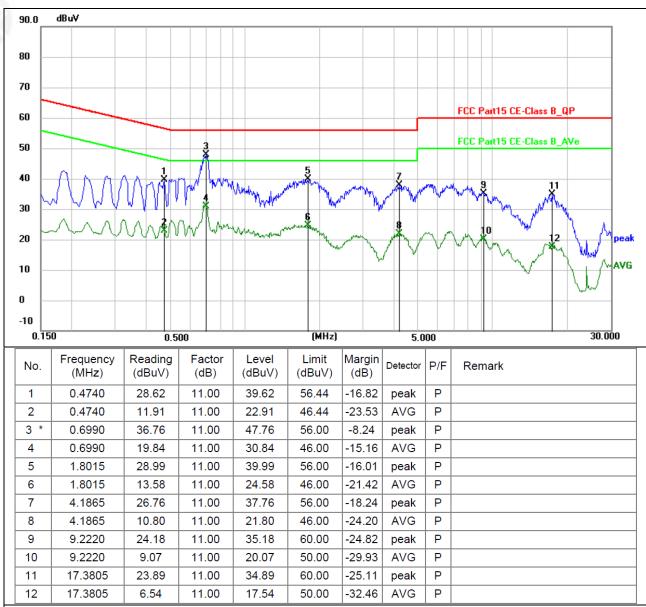






## 4.1.6 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L (2/2/2)
Test Voltage:	AC 120V/60Hz		1/2/201



- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

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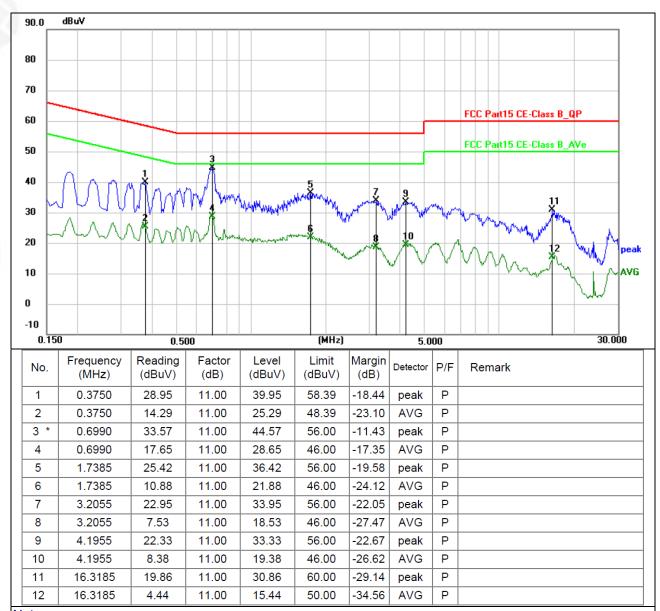








Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz		700



- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor

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## **4.2 RADIATED EMISSION MEASUREMENT**

	1					
Test Requirement:	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	9kHz to 25GHz					
Test site:	Measurement Dista	nce: 3m	.60			
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak	
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak	
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak	
		Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	

## 4.2.1 RADIATED EMISSION LIMITS

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

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
PREQUENCT (MINZ)	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).

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4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both 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.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

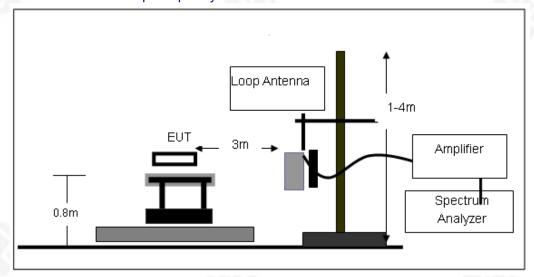
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

#### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.4 TEST SETUP

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



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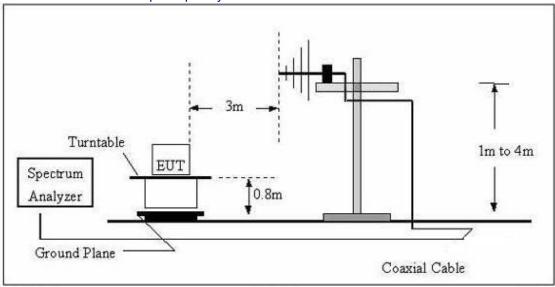




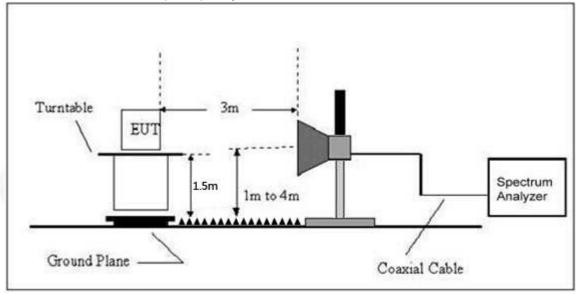




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



## 4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

## 4.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

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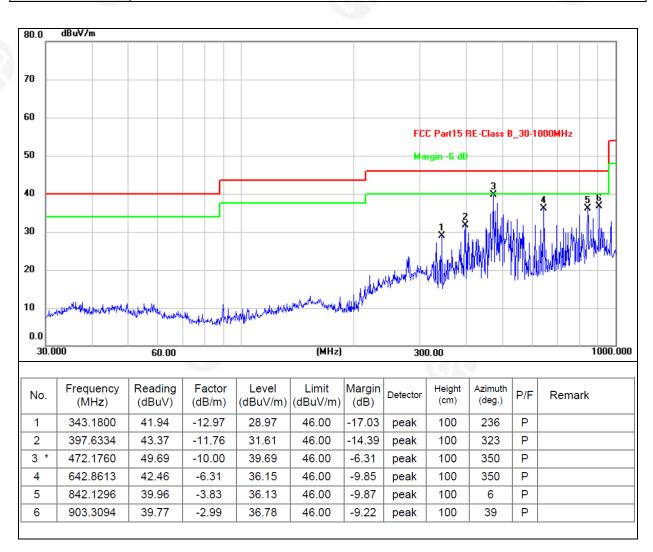






## Between 30MHz - 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	72.172	20

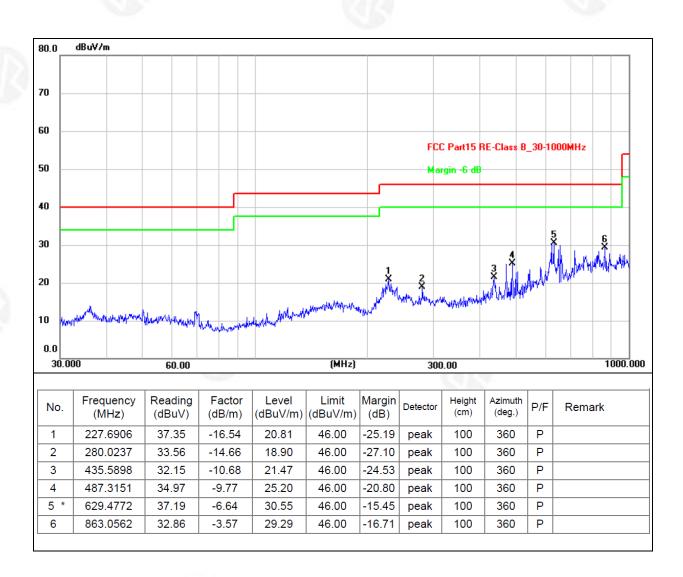


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Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V		62.53



#### Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

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- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The test data shows only the worst case GFSK mode













## 1GHz~25GHz

Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
				Low Cha	nnel:2402M	Hz			
V	4804.00	54.11	30.55	5.77	24.66	53.99	74.00	-20.01	Pk
V	4804.00	43.8	30.55	5.77	24.66	43.68	54.00	-10.32	AV
V	7206.00	54.45	30.33	6.32	24.55	54.99	74.00	-19.01	Pk
V	7206.00	43.7	30.33	6.32	24.55	44.24	54.00	-9.76	AV
V	9608.00	52.42	30.85	7.45	24.69	53.71	74.00	-20.29	Pk
V	9608.00	40.41	30.85	7.45	24.69	41.7	54.00	-12.3	AV
V	12010.00	49.71	31.02	8.99	25.57	53.25	74.00	-20.75	Pk
V	12010.00	38.87	31.02	8.99	25.57	42.41	54.00	-11.59	AV
Н	4804.00	51.18	30.55	5.77	24.66	51.06	74.00	-22.94	Pk
Н	4804.00	44.57	30.55	5.77	24.66	44.45	54.00	-9.55	AV
Н	7206.00	52.71	30.33	6.32	24.55	53.25	74.00	-20.75	Pk
Н	7206.00	41.54	30.33	6.32	24.55	42.08	54.00	-11.92	AV
Н	9608.00	51.52	30.85	7.45	24.69	52.81	74.00	-21.19	Pk
Н	9608.00	41.63	30.85	7.45	24.69	42.92	54.00	-11.08	AV
Н	12010.00	48.89	31.02	8.99	25.57	52.43	74.00	-21.57	Pk
Н	12010.00	39.1	31.02	8.99	25.57	42.64	54.00	-11.36	AV

Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			N	/liddle Ch	nannel:2442	2MHz			
V	4884.00	56.09	30.55	5.77	24.66	55.97	74.00	-18.03	Pk
V	4884.00	42.39	30.55	5.77	24.66	42.27	54.00	-11.73	AV
V	7326.00	53.91	30.33	6.32	24.55	54.45	74.00	-19.55	Pk
V	7326.00	41.84	30.33	6.32	24.55	42.38	54.00	-11.62	AV
V	9768.00	50.59	30.85	7.45	24.69	51.88	74.00	-22.12	Pk
V	9768.00	42.88	30.85	7.45	24.69	44.17	54.00	-9.83	AV
V	12210.00	50.46	31.02	8.99	25.57	54	74.00	-20	Pk
V	12210.00	39.45	31.02	8.99	25.57	42.99	54.00	-11.01	AV
Н	4884.00	55.81	30.55	5.77	24.66	55.69	74.00	-18.31	Pk
Н	4884.00	42.3	30.55	5.77	24.66	42.18	54.00	-11.82	AV
Н	7326.00	51.18	30.33	6.32	24.55	51.72	74.00	-22.28	Pk
Н	7326.00	45.03	30.33	6.32	24.55	45.57	54.00	-8.43	AV
Н	9768.00	53.65	30.85	7.45	24.69	54.94	74.00	-19.06	Pk
Н	9768.00	40.58	30.85	7.45	24.69	41.87	54.00	-12.13	AV
Н	12210.00	48.08	31.02	8.99	25.57	51.62	74.00	-22.38	Pk
Н	12210.00	42.31	31.02	8.99	25.57	45.85	54.00	-8.15	AV

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Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
	100	>	ŀ	High Cha	nnel:2480M	1Hz			
V	4960.00	56.02	30.55	5.77	24.66	55.9	74.00	-18.1	Pk
V	4960.00	42.3	30.55	5.77	24.66	42.18	54.00	-11.82	AV
V	7440.00	50.86	30.33	6.32	24.55	51.4	74.00	-22.6	Pk
V	7440.00	43.29	30.33	6.32	24.55	43.83	54.00	-10.17	AV
V	9920.00	51.22	30.85	7.45	24.69	52.51	74.00	-21.49	Pk
V	9920.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
V	12400.00	48.87	31.02	8.99	25.57	52.41	74.00	-21.59	Pk
V	12400.00	37.58	31.02	8.99	25.57	41.12	54.00	-12.88	AV
Н	4960.00	52.61	30.55	5.77	24.66	52.49	74.00	-21.51	Pk
Н	4960.00	42.26	30.55	5.77	24.66	42.14	54.00	-11.86	AV
Н	7440.00	51.34	30.33	6.32	24.55	51.88	74.00	-22.12	Pk
Н	7440.00	42.52	30.33	6.32	24.55	43.06	54.00	-10.94	AV
Н	9920.00	52.3	30.85	7.45	24.69	53.59	74.00	-20.41	Pk
Н	9920.00	40.08	30.85	7.45	24.69	41.37	54.00	-12.63	AV
Н	12400.00	49.06	31.02	8.99	25.57	52.6	74.00	-21.4	Pk
Н	12400.00	41.82	31.02	8.99	25.57	45.36	54.00	-8.64	AV

#### Remark:

- Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level - Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Project No.: ZKT-220726L5226E

Page 24 of 39

#### 5.RADIATED BAND EMISSION MEASUREMENT

#### **5.1 TEST REQUIREMENT:**

_ ,_ ,								
Test Requirement:	FCC Part15 C	Section 15.209	and 15.20	)5				
Test Method:	ANSI C63.10:	2013						
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.							
Test site:	Measurement	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above	Peak	1MHz	3MHz	Peak			
	1GHz	Average	1MHz	3MHz	Average			

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

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)				
PREQUENCT (MINZ)	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).

#### 5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

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

#### 5.3 DEVIATION FROM TEST STANDARD

No deviation

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## 5.4 TEST SETUP

Turntable

Turntable

Ground Plane

Turntable

Coaxial Cable

## 5.5 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.

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## 5.6 TEST RESULT

Polar

Frequenc

Project No.: ZKT-220726L5226E

Page 26 of 39 Detec Limit **Emission** (dBuV tor

	Polar (H/V)	y (MHz)	Reading (dBuV)	amplifier (dB)	Loss (dB)	Factor (dB/m)	level (dBuV/m)	(dBuV /m)	tor Type	Result
				Low	Channe	l: 2402MHz	7			•
	Н	2390.00	57.15	30.22	4.85	23.98	55.76	74.00	PK	PASS
	Н	2390.00	43.64	30.22	4.85	23.98	42.25	54.00	AV	PASS
	Н	2400.00	55.01	30.22	4.85	23.98	53.62	74.00	PK	PASS
	Н	2400.00	42.9	30.22	4.85	23.98	41.51	54.00	AV	PASS
	V	2390.00	53.01	30.22	4.85	23.98	51.62	74.00	PK	PASS
	V	2390.00	45.23	30.22	4.85	23.98	43.84	54.00	AV	PASS
	V	2400.00	53.63	30.22	4.85	23.98	52.24	74.00	PK	PASS
GFSK	V	2400.00	44.19	30.22	4.85	23.98	42.8	54.00	AV	PASS
GI SIX				High	Channe	el: 2480MHz	Z			
	H	2483.50	55.26	30.22	4.85	23.98	53.87	74.00	PK	PASS
	Н	2483.50	43.78	30.22	4.85	23.98	42.39	54.00	AV	PASS
	Н	2500.00	56.72	30.22	4.85	23.98	55.33	74.00	PK	PASS
	Н	2500.00	42.52	30.22	4.85	23.98	41.13	54.00	AV	PASS
	V	2483.50	52.85	30.22	4.85	23.98	51.46	74.00	PK	PASS
	V	2483.50	43.36	30.22	4.85	23.98	41.97	54.00	AV	PASS
	V	2500.00	52.81	30.22	4.85	23.98	51.42	74.00	PK	PASS
	V	2500.00	45.73	30.22	4.85	23.98	44.34	54.00	AV	PASS

Cable

Antenna

Pre-

Meter





<sup>1.</sup> Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



Project No.: ZKT-220726L5226E

Page 27 of 39

### 6.POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

#### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C								
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247	Power Spectral Density	8dBm/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 bandwidth.
- 3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- 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 within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 6.3 DEVIATION FROM STANDARD

No deviation.

#### 6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

## 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

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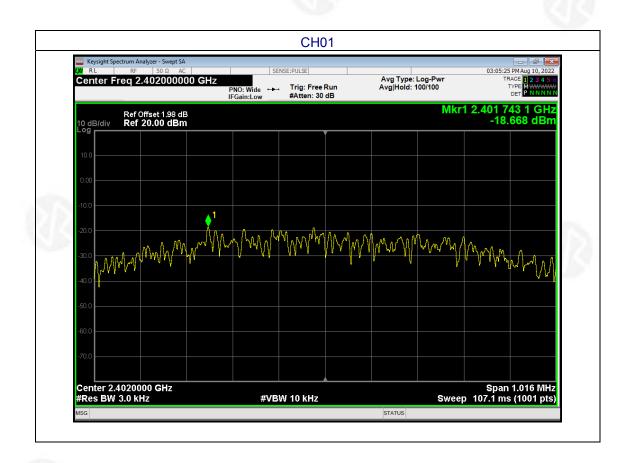




6.6 TEST RESULT

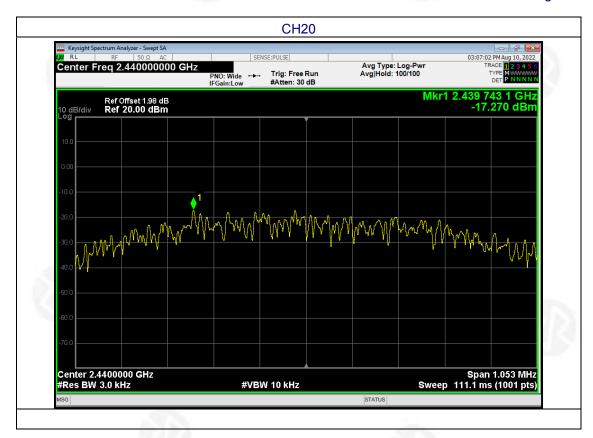
Temperature :	26℃	Relative Humidity:	54%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

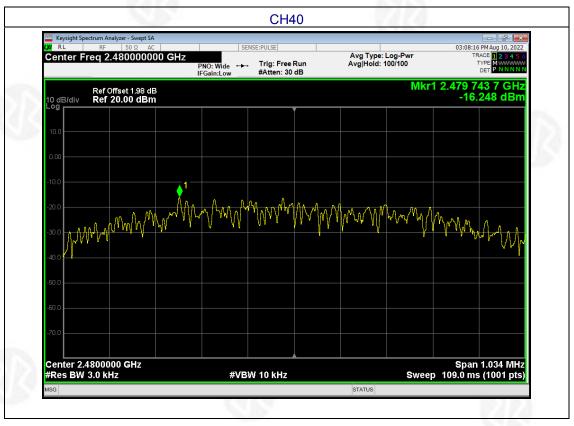
Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-18.67	8	PASS
2440 MHz	-17.27	8	PASS
2480 MHz	-16.25	8	PASS



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Page 30 of 39

#### 7. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

## 7.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (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

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 7.3 DEVIATION FROM STANDARD

No deviation.

## 7.4 TEST SETUP



## 7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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## 7.6 TEST RESULT

Temperature :	26℃	Relative Humidity:	54%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.677		
Middle	0.702	>500	Pass
Highest	0.689		



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**8.PEAK OUTPUT POWER TEST** 

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

## 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak 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 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

EUT	POWER	METER

## **8.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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## 8.6 TEST RESULT

Project No.: ZKT-220726L5226E Page 34 of 39

Temperature :	26℃	Relative Humidity:	54%
Test Mode :	GFSK	Test Voltage :	DC 3.7V

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-3.41		
Middle	-2.05	30.00	Pass
Highest	-0.97	676	

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Project No.: ZKT-220726L5226E

Page 35 of 39

## 9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

#### 9.1 APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

#### 9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

## 9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### 9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

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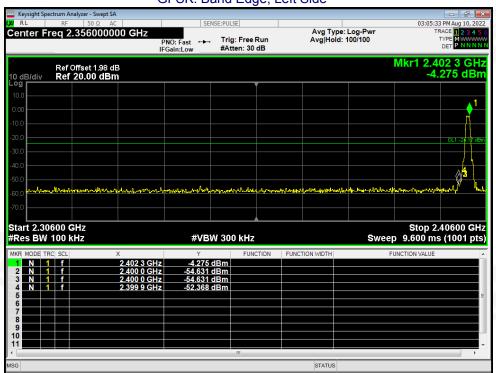




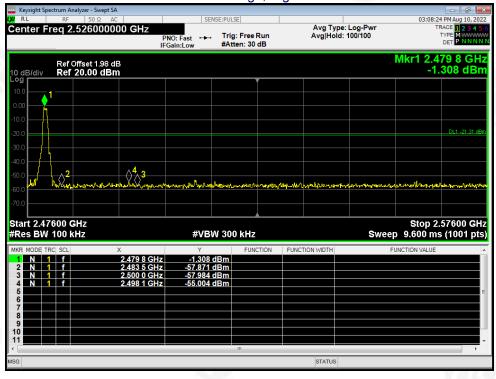




GFSK: Band Edge, Left Side



## GFSK: Band Edge, Right Side



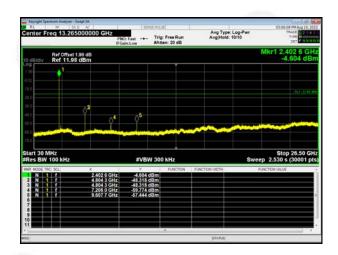
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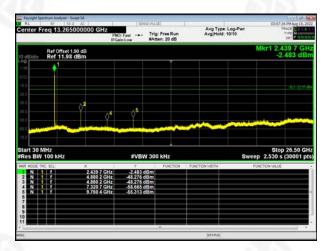
## Lowest channel





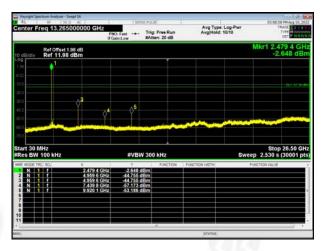
## Middle channel





## Highest channel





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## **10.ANTENNA REQUIREMENT**

Project No.: ZKT-220726L5226E

Page 38 of 39

Standard requirement: FCC Part15 C Section 15.203 /247(c)

#### 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.

#### 15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

## **EUT Antenna:**

The antenna is PCB ANT, the best case gain of the antennas is 0dBi, reference to the appendix II for details

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Project No.: ZKT-220726L5226E

Page 39 of 39

## 11. TEST SETUP PHOTO

Reference to the appendix I for details.

## 12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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

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