

FCC TEST REPORT FCC ID:2A2HA-BY-480BT

Report Number	: ZKT-2211148467E
Date of Test	Nov. 19, 2022 to Nov. 25, 2022
Date of issue	: Nov. 25, 2022
Total number of pages	
Test Result	:: PASS
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
Applicant's name	: Xiamen IPRT Technology Co., Ltd.
Address	. 3rd, 4th and 5th floor, No. 101, Huli Industrial Park, Meixi Road, Tong'an District, Xiamen City
Manufacturer's name	: Xiamen IPRT Technology Co., Ltd.
Address	3rd, 4th and 5th floor, No. 101, Huli Industrial Park, Meixi Road, Tong'an District, Xiamen City
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	
Test Report Form(s) Origi	
test (EUT) is in compliance identified in the report. This report shall not be repr	with the FCC requirements. And it is applicable only to the tested sample
test (EUT) is in compliance identified in the report. This report shall not be repr be altered or revised by ZK	with the FCC requirements. And it is applicable only to the tested sample roduced except in full, without the written approval of ZKT, this document may
test (EUT) is in compliance identified in the report. This report shall not be repr be altered or revised by ZK	with the FCC requirements. And it is applicable only to the tested sample roduced except in full, without the written approval of ZKT, this document may T, personal only, and shall be noted in the revision of the document.
test (EUT) is in compliance identified in the report. This report shall not be repr be altered or revised by ZK Product name	with the FCC requirements. And it is applicable only to the tested sample roduced except in full, without the written approval of ZKT, this document may T, personal only, and shall be noted in the revision of the document. : Thermal Label Printer BEEPRT
test (EUT) is in compliance identified in the report. This report shall not be repr be altered or revised by ZK ^T Product name Trademark	roduced except in full, without the written approval of ZKT, this document may T, personal only, and shall be noted in the revision of the document. : Thermal Label Printer BEEPRT

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China









	Project No.: ZKT-2211148467E Page 3 of 39	
Table of Contents	Page	
1.VERSION	5	
2.SUMMARY OF TEST RESULTS	6	
2.1 TEST FACILITY	7	
2.2 MEASUREMENT UNCERTAINTY	7	
3. GENERAL INFORMATION	8	
3.1 GENERAL DESCRIPTION OF EUT	8	
3.2 DESCRIPTION OF TEST MODES	10	
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION O	F SYSTEM TESTED 10	
3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED M	ODE) 10	
3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	11	
4. EMC EMISSION TEST	13	
4.1 CONDUCTED EMISSION MEASUREMENT	13	
4.1.1 1POWER LINE CONDUCTED EMISSION LIMITS 4.1.2 TEST PROCEDURE	13 13	
4.1.3 DEVIATION FROM TEST STANDARD	13	
4.1.4 TEST SETUP	14	
4.1.5 EUT OPERATING CONDITIONS 4.1.6 TEST RESULTS	14 13	
4.2 RADIATED EMISSION MEASUREMENT	15	
4.2.1 RADIATED EMISSION LIMITS	17	
4.2.2 TEST PROCEDURE 4.2.3 DEVIATION FROM TEST STANDARD	18 18	
4.2.4 TEST SETUP	18	
4.2.5 EUT OPERATING CONDITIONS	19	
5.RADIATED BAND EMISSION MEASUREMENT	24	
5.1 TEST REQUIREMENT: 5.2 TEST PROCEDURE	24	
5.2 TEST PROCEDURE 5.3 DEVIATION FROM TEST STANDARD	24 24	
5.4 TEST SETUP	25	
5.5 EUT OPERATING CONDITIONS 5.6 TEST RESULT	25 26	
6.POWER SPECTRAL DENSITY TEST	27	
6.1 APPLIED PROCEDURES / LIMIT	27	
6.2 TEST PROCEDURE 6.3 DEVIATION FROM STANDARD	27 27	
6.4 TEST SETUP	27	

Shenzhen ZKT Technology Co., Ltd. 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

🕄 www.zkt-lab.com



Table of Contents	Page
6.5 EUT OPERATION CONDITIONS 6.6 TEST RESULTS	27 28
7. CHANNEL BANDWIDTH 7.1 APPLIED PROCEDURES / LIMIT 7.2 TEST PROCEDURE 7.3 DEVIATION FROM STANDARD 7.4 TEST SETUP 7.5 EUT OPERATION CONDITIONS 7.6 TEST RESULTS	30 30 30 30 30 30 31
8.PEAK OUTPUT POWER TEST 8.1 APPLIED PROCEDURES / LIMIT 8.2 TEST PROCEDURE 8.3 DEVIATION FROM STANDARD 8.4 TEST SETUP 8.5 EUT OPERATION CONDITIONS 8.6 TEST RESULTS	33 33 33 33 33 33 33 34
 9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION 9.1 APPLICABLE STANDARD 9.2 TEST PROCEDURE 9.3 DEVIATION FROM STANDARD 9.4 TEST SETUP 9.5 EUT OPERATION CONDITIONS 	35 35 35 35 35 35
10.ANTENNA REQUIREMENT	38
11. TEST SETUP PHOTO	39
12. EUT CONSTRUCTIONAL DETAILS	39





1.VERSION

	Report No.	Version	Description	Approved
	ZKT-2211148467E	Rev.01	Initial issue of report	Nov. 25, 2022
-				







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	5
FCC part 15.247(d)	Band Edge	PASS	100
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 \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % \circ

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
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%
12	Temperature uncertainty	U=0.59°C





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Thermal Label Printer	
Model No.:	BY-480BT	
	BY-426BT, BY-248BT, BY-290BT, BY-245BT,LTK-244BT JD-168BT, JD-268BT, BY-243BT, QR-488BT, QR-588BT QR-586BT,IP-486BT,QR-668BT, QR-888BT, BY-483BT, IP-592BT, N-6140, N-6240, N-6240BT, Z-474, LH-560, PL70e-BT, LABEL PRINTER	r, QR-486BT PP-480BT,
Model Different .:	Only for different model name	
Serial No.:	N/A	
Hardware Version:	H1.0	100
Software Version:	S1.0	22
Sample(s) Status:	Engineer sample	1
Operation Frequency:	2402MHz~2480MHz	
Channel Numbers:	40	
Channel Separation:	2MHz	
Modulation Type:	GFSK	
Antenna Type:	PCB ANT	
Antenna gain:	2.0dBi	
Power supply:	Input: DC 24V, 2A	
SWITCHING POWER	N/A	S.S.











Operation	Dperation 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:

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





3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Charging mode	Keep the EUT in Charging mode.
	the test voltage was tuned from 85% to 115% of the nominal rated supply ne worst case was under the nominal rated supply condition. So the report just ata.

Test Software	BLE Test Tool
Power level setup	<0dBm

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

EUT



Radiated Emission

EUT

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.

			and the second second second second		
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Thermal Label Printer	N/A	KB05111	N/A	EUT
A-1	AC Adapter	DAJING	ADP-60E24	N/A	Auxiliary
		20) j	
				712	

Item	Shielded Type	Ferrite Core	Length	Note
	S			
				212

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 $\[\]$ Length $\[\]$ column.





3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
	Spectrum Analyzer	Manadotarol	190010.	Conditio.		
1	(9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	Oct. 18, 2022	Oct. 17, 2023
	Spectrum Analyzer					
2	(1GHz-40GHz)	R&S	FSQ	100363	Oct. 17, 2022	Oct. 16, 2023
3	EMI Test Receiver	R&S	ESCI7	101169	Oct. 18, 2022	Oct. 17, 2023
5	(9kHz-7GHz)	Ras		001. 10, 2022	001. 17, 2023	
4	Bilog Antenna	Schwarzbeck	VULB9168	N/A	Oct. 17, 2022	Oct. 16, 2023
-	(30MHz-1500MHz)	Ochwarzbeck	VOLDSTOO		001. 17, 2022	001. 10, 2020
5	Horn Antenna	Agilent	AH-118	071145	Oct. 17, 2022	Oct. 16, 2023
Ŭ	(1GHz-18GHz)	Aglient	711-110	071145	000. 17, 2022	001. 10, 2020
6	Loop Antenna	TESEQ	HLA6121	58357	Oct. 17, 2022	Oct. 16, 2023
7	Amplifier	EM Electronics	EM330	060747	Oct. 18, 2022	Oct. 17, 2023
Ľ	(30-1000MHz)		Amplifier	060747	001. 10, 2022	001. 17, 2023
8	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	Oct. 18, 2022	Oct. 17, 2023
9	RF cables1	N/A	9kHz-30MHz	N/A	Oct. 18, 2022	Oct. 17, 2023
9	(9kHz-30MHz)		9KI IZ-SUIVII IZ	N/A	001. 10, 2022	001. 17, 2023
10	RF cables2	N/A	30MHz-1GHz	N/A	Oct. 18, 2022	Oct. 17, 2023
	(30MHz-1GHz)		50000 12-1 OF 12		001. 10, 2022	001. 17, 2020
11	RF cables3	N/A	1GHz-40GHz	N/A	Oct. 18, 2022	Oct. 17, 2023
	(1GHz-40GHz)				001. 10, 2022	000. 17, 2020
12	ESG Signal Generator	Agilent	E4421B	N/A	Oct. 22, 2022	Oct. 21, 2023
13	Signal Generator	Agilent	N5182A	N/A	Oct. 22, 2022	Oct. 21, 2023
14	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	Oct. 17, 2022	Oct. 16, 2023
15	MWRF Power Meter Test system	MW	MW100-RPCB	N/A	Oct. 22, 2022	Oct. 21, 2023
16	D.C. Power Supply	LongWei	TPR-6405D	N/A	١	١
17	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	١	١
18	RF Software	MW	MTS8310	V2.0.0.0	١	/
19	Turntable	MF	MF-7802BS	N/A	١	/
20	Antenna tower	MF	MF-7802BS	N/A	1	









Conduction Test equipment

1	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
	1	LISN	R&S	ENV216	101471	Oct. 22, 2022	Oct. 21, 2023
	2	LISN	CYBERTEK	EM5040A	E185040014 9	Oct. 22, 2022	Oct. 21, 2023
1	3	Test Cable	N/A	C01	N/A	Oct. 18, 2022	Oct. 17, 2023
	4	Test Cable	N/A	C02	N/A	Oct. 18, 2022	Oct. 17, 2023
	5	EMI Test Receiver	R&S	ESCI3	101393	Oct. 17, 2022	Oct. 16, 2023
	6	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1		١





4. EMC EMISSION TEST

Project No.: ZKT-2211148467E Page 13 of 39

4.1 CONDUCTED EMISSION MEASUREMENT

	Test Requirement:	FCC Part15 C Section 15.207
	Test Method:	ANSI C63.10:2013
ST	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 (Standard	
	Quas-peak	Average	Standard
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

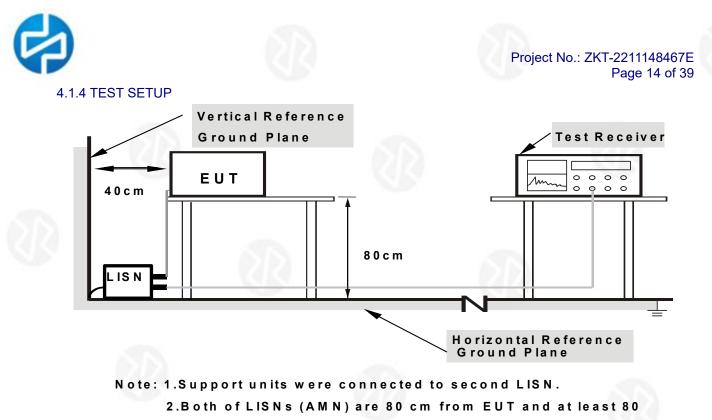
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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







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.

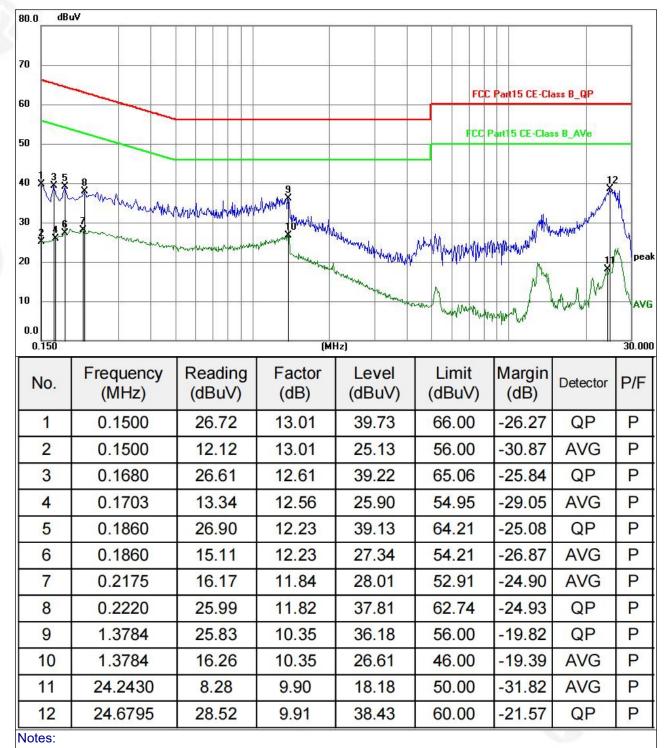






4.1.6 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		



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

Shenzhen ZKT Technology Co., Ltd.

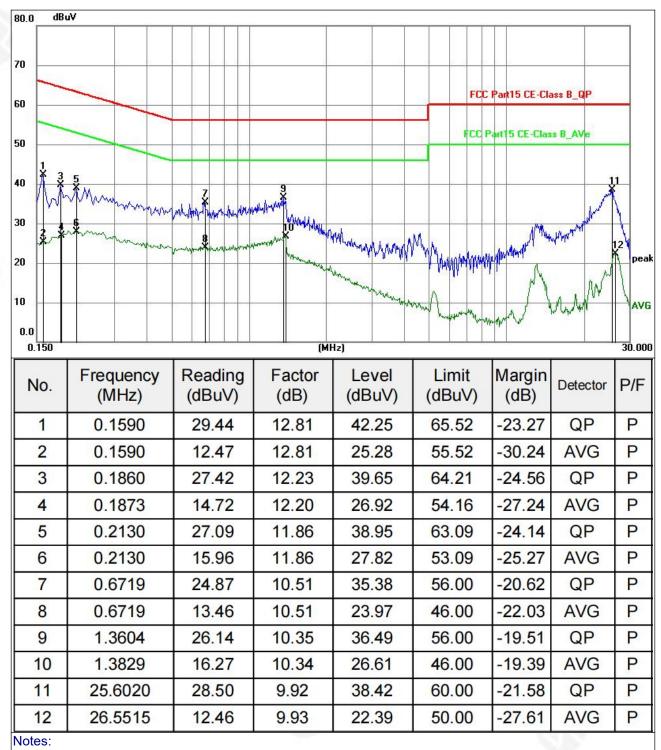
1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China







Temperature:	26° ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Ν
Test Voltage :	AC 120V/60Hz		



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

Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China







4.2 RADIATED EMISSION MEASUREMENT

Test Rec	quirement:	FCC Part15 C Section 15.209 ANSI C63.10:2013						
Test Me	thod:							
Test Fre	quency Range:	9kHz to 25GHz						
Test site	:	Measurement Distance: 3m						
Receive	r 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	100KHz	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)		
FREQUENCT (MIDZ)	PEAK	AVERAGE	
Above 1000	74	54	
A. 4. 4.			

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).





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.



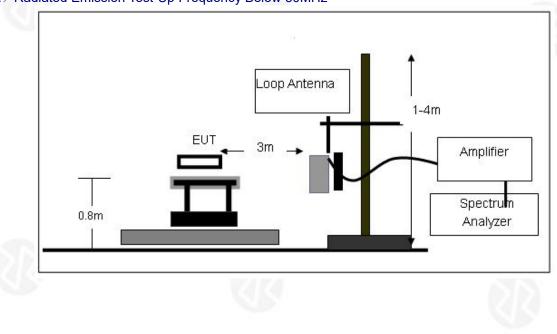
Note:

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



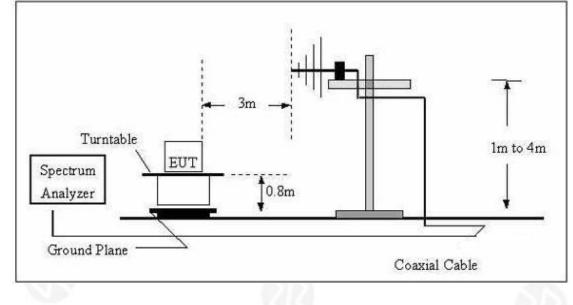
Shenzhen ZKT Technology Co., Ltd. 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

www.zkt-lab.com

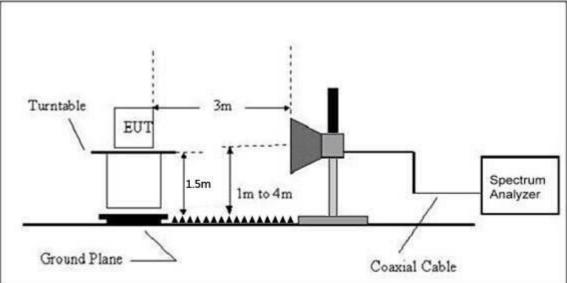


Project No.: ZKT-2211148467E Page 19 of 39

(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)

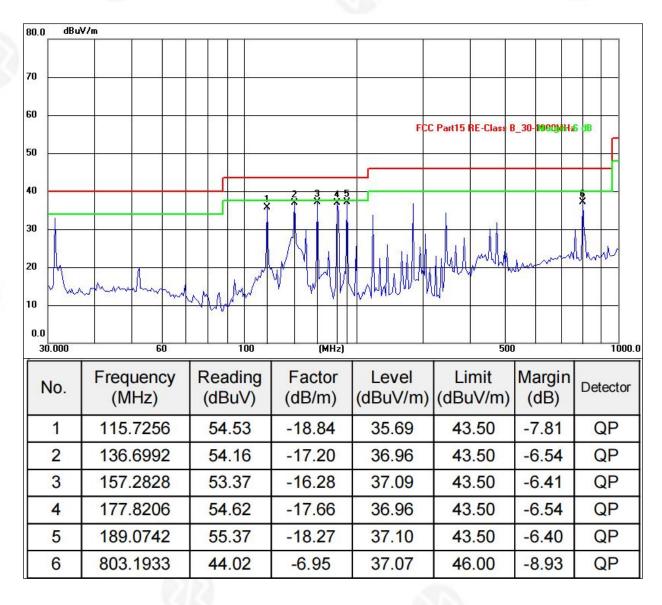
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.





Between 30MHz - 1GHz

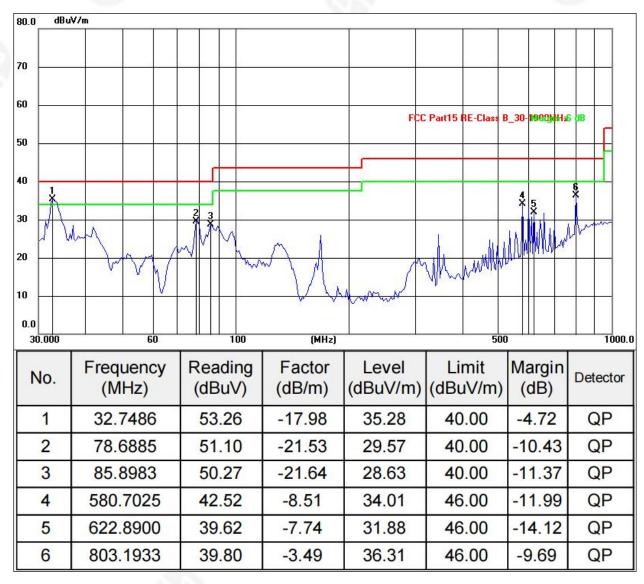
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 24V		







Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 24V		2.2



Remarks:

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

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:2402N	⁄IHz						
V	4804.00	51.62	30.55	5.77	24.66	51.50	74.00	-22.50	Pk			
V	4804.00	43.48	30.55	5.77	24.66	43.36	54.00	-10.64	AV			
V	7206.00	53.52	30.33	6.32	24.55	54.06	74.00	-19.94	Pk			
V	7206.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV			
V	9608.00	54.96	30.85	7.45	24.69	56.25	74.00	-17.75	Pk			
V	9608.00	43.78	30.85	7.45	24.69	45.07	54.00	-8.93	AV			
V	12010.00	52.08	31.02	8.99	25.57	55.62	74.00	-18.38	Pk			
V	12010.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV			
Н	4804.00	51.97	30.55	5.77	24.66	51.85	74.00	-22.15	Pk			
Н	4804.00	43.69	30.55	5.77	24.66	43.57	54.00	-10.43	AV			
Н	7206.00	52.87	30.33	6.32	24.55	53.41	74.00	-20.59	Pk			
Н	7206.00	43.26	30.33	6.32	24.55	43.80	54.00	-10.20	AV			
Н	9608.00	54.80	30.85	7.45	24.69	56.09	74.00	-17.91	Pk			
Н	9608.00	43.96	30.85	7.45	24.69	45.25	54.00	-8.75	AV			
Н	12010.00	50.51	31.02	8.99	25.57	54.05	74.00	-19.95	Pk			
Н	12010.00	43.59	31.02	8.99	25.57	47.13	54.00	-6.87	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	Middle Channel:2440MHz								
V			11	lidale Ch	annel:2440	MHz						
	4880.00	52.30				1	74.00	-21.82	Pk			
V	4880.00 4880.00	52.30 43.62	30.55	5.77	24.66	52.18	74.00 54.00	-21.82 -10.50	Pk AV			
V V	4880.00 4880.00 7320.00	52.30 43.62 53.38	30.55 30.55	5.77 5.77	24.66 24.66	1		-21.82 -10.50 -20.08	Pk AV Pk			
	4880.00 7320.00	43.62	30.55 30.55 30.33	5.77	24.66 24.66 24.55	52.18 43.50 53.92	54.00	-10.50	AV			
V	4880.00 7320.00 7320.00	43.62 53.38	30.55 30.55 30.33 30.33	5.77 5.77 6.32	24.66 24.66 24.55 24.55	52.18 43.50 53.92 44.18	54.00 74.00	-10.50 -20.08	AV Pk AV			
V V	4880.00 7320.00	43.62 53.38 43.64 54.02	30.55 30.55 30.33 30.33 30.85	5.77 5.77 6.32 6.32 7.45	24.66 24.66 24.55	52.18 43.50 53.92	54.00 74.00 54.00	-10.50 -20.08 -9.82 -18.69	AV Pk			
V V V	4880.00 7320.00 7320.00 9760.00	43.62 53.38 43.64	30.55 30.55 30.33 30.33	5.77 5.77 6.32 6.32	24.66 24.66 24.55 24.55 24.69	52.18 43.50 53.92 44.18 55.31	54.00 74.00 54.00 74.00	-10.50 -20.08 -9.82	AV Pk AV Pk			
V V V V	4880.00 7320.00 7320.00 9760.00 9760.00	43.62 53.38 43.64 54.02 43.52	30.55 30.55 30.33 30.33 30.85 30.85	5.77 5.77 6.32 6.32 7.45 7.45	24.66 24.66 24.55 24.55 24.69 24.69	52.18 43.50 53.92 44.18 55.31 44.81	54.00 74.00 54.00 74.00 54.00	-10.50 -20.08 -9.82 -18.69 -9.19	AV Pk AV Pk AV			
V V V V V	4880.00 7320.00 7320.00 9760.00 9760.00 12200.00	43.62 53.38 43.64 54.02 43.52 51.98	30.55 30.55 30.33 30.33 30.85 30.85 31.02	5.77 5.77 6.32 6.32 7.45 7.45 8.99	24.66 24.66 24.55 24.55 24.69 24.69 25.57	52.18 43.50 53.92 44.18 55.31 44.81 55.52	54.00 74.00 54.00 74.00 54.00 74.00	-10.50 -20.08 -9.82 -18.69 -9.19 -18.48	AV Pk AV Pk AV Pk			
V V V V V	4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00	43.62 53.38 43.64 54.02 43.52 51.98 43.59	30.55 30.55 30.33 30.33 30.85 30.85 31.02 31.02	5.77 5.77 6.32 6.32 7.45 7.45 8.99 8.99	24.66 24.66 24.55 24.55 24.69 24.69 24.69 25.57 25.57	52.18 43.50 53.92 44.18 55.31 44.81 55.52 47.13	54.00 74.00 54.00 74.00 54.00 74.00 54.00 54.00 54.00	-10.50 -20.08 -9.82 -18.69 -9.19 -18.48 -6.87	AV Pk AV Pk AV Pk AV			
V V V V V V H	4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00	43.62 53.38 43.64 54.02 43.52 51.98 43.59 51.07	30.55 30.55 30.33 30.33 30.85 30.85 31.02 31.02 30.55	5.77 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77	24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66	52.18 43.50 53.92 44.18 55.31 44.81 55.52 47.13 50.95	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00	-10.50 -20.08 -9.82 -18.69 -9.19 -18.48 -6.87 -23.05	AV Pk AV Pk AV Pk AV Pk			
V V V V V H H	4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00 4880.00	43.62 53.38 43.64 54.02 43.52 51.98 43.59 51.07 43.17	30.55 30.55 30.33 30.33 30.85 30.85 31.02 30.55 30.55	5.77 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77	24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66	52.18 43.50 53.92 44.18 55.31 44.81 55.52 47.13 50.95 43.05	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00	-10.50 -20.08 -9.82 -18.69 -9.19 -18.48 -6.87 -23.05 -10.95	AV Pk AV Pk AV Pk AV Pk AV			
V V V V V H H H	4880.00 7320.00 7320.00 9760.00 12200.00 12200.00 4880.00 4880.00 7320.00	43.62 53.38 43.64 54.02 43.52 51.98 43.59 51.07 43.17 50.96	30.55 30.55 30.33 30.33 30.85 30.85 31.02 30.55 30.55 30.33	5.77 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32 6.32	24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66 24.55	52.18 43.50 53.92 44.18 55.31 44.81 55.52 47.13 50.95 43.05 51.50 43.84	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-10.50 -20.08 -9.82 -18.69 -9.19 -18.48 -6.87 -23.05 -10.95 -22.50	AV Pk AV Pk AV Pk AV Pk AV Pk			
V V V V V H H H	4880.00 7320.00 7320.00 9760.00 9760.00 12200.00 12200.00 4880.00 4880.00 7320.00 7320.00	43.62 53.38 43.64 54.02 43.52 51.98 43.59 51.07 43.17 50.96 43.30	30.55 30.55 30.33 30.33 30.85 30.85 31.02 31.02 30.55 30.55 30.33	5.77 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32	24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66 24.55 24.55	52.18 43.50 53.92 44.18 55.31 44.81 55.52 47.13 50.95 43.05 51.50	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00	-10.50 -20.08 -9.82 -18.69 -9.19 -18.48 -6.87 -23.05 -10.95 -22.50 -10.16	AV Pk AV Pk AV Pk AV Pk AV Pk AV			
V V V V H H H H	4880.00 7320.00 7320.00 9760.00 12200.00 12200.00 4880.00 4880.00 7320.00 7320.00 9760.00	43.62 53.38 43.64 54.02 43.52 51.98 43.59 51.07 43.17 50.96 43.30 54.87	30.55 30.55 30.33 30.33 30.85 30.85 31.02 30.55 30.55 30.33 30.55 30.33 30.33 30.33 30.85	5.77 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32 6.32 7.45	24.66 24.66 24.55 24.69 24.69 25.57 25.57 24.66 24.66 24.66 24.55 24.55 24.69	52.18 43.50 53.92 44.18 55.31 44.81 55.52 47.13 50.95 43.05 51.50 43.84 56.16	54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-10.50 -20.08 -9.82 -18.69 -9.19 -18.48 -6.87 -23.05 -10.95 -22.50 -10.16 -17.84	AV Pk AV Pk AV Pk AV Pk AV Pk AV Pk			





Project No.: ZKT-2211148467E Page 23 of 39

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
			I	- ligh Cha	nnel:2480M	IHz		0	
V	4960.00	51.65	30.55	5.77	24.66	51.53	74.00	-22.47	Pk
V	4960.00	43.16	30.55	5.77	24.66	43.04	54.00	-10.96	AV
V	7440.00	54.24	30.33	6.32	24.55	54.78	74.00	-19.22	Pk
V	7440.00	43.96	30.33	6.32	24.55	44.50	54.00	-9.50	AV
V	9920.00	51.56	30.85	7.45	24.69	52.85	74.00	-21.15	Pk
V	9920.00	43.41	30.85	7.45	24.69	44.70	54.00	-9.30	AV
V	12400.00	50.92	31.02	8.99	25.57	54.46	74.00	-19.54	Pk
V	12400.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV
Н	4960.00	50.28	30.55	5.77	24.66	50.16	74.00	-23.84	Pk
Н	4960.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
Н	7440.00	53.54	30.33	6.32	24.55	54.08	74.00	-19.92	Pk
Н	7440.00	43.25	30.33	6.32	24.55	43.79	54.00	-10.21	AV
Н	9920.00	52.90	30.85	7.45	24.69	54.19	74.00	-19.81	Pk
Н	9920.00	43.87	30.85	7.45	24.69	45.16	54.00	-8.84	AV
Н	12400.00	52.36	31.02	8.99	25.57	55.90	74.00	-18.10	Pk
Н	12400.00	43.25	31.02	8.99	25.57	46.79	54.00	-7.21	AV

Remark:

1. 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.







5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10:	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 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)			
	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 Mode.
- 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 Note:

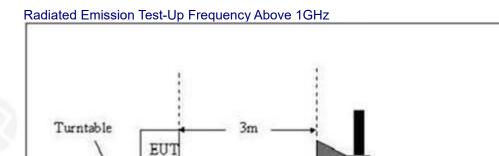
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

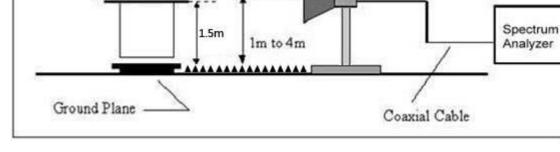
5.3 DEVIATION FROM TEST STANDARD No deviation





5.4 TEST SETUP





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.







5.6 TEST RESULT

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Detec tor Type	Result
				Low	Channe	I: 2402MHz	2			
	Н	2390.00	53.42	30.22	4.85	23.98	52.03	74.00	PK	PASS
100	Н	2390.00	44.02	30.22	4.85	23.98	42.63	54.00	AV	PASS
1.1	Н	2400.00	53.82	30.22	4.85	23.98	52.43	74.00	PK	PASS
	Н	2400.00	44.95	30.22	4.85	23.98	43.56	54.00	AV	PASS
	V	2390.00	53.75	30.22	4.85	23.98	52.36	74.00	PK	PASS
	V	2390.00	44.38	30.22	4.85	23.98	42.99	54.00	AV	PASS
	V	2400.00	53.48	30.22	4.85	23.98	52.09	74.00	PK	PASS
GFSK	V	2400.00	44.24	30.22	4.85	23.98	42.85	54.00	AV	PASS
Gron	High Channel: 2480MHz									
	Н	2483.50	54.33	30.22	4.85	23.98	52.94	74.00	PK	PASS
	Н	2483.50	44.78	30.22	4.85	23.98	43.39	54.00	AV	PASS
	Н	2500.00	53.64	30.22	4.85	23.98	52.25	74.00	PK	PASS
	Н	2500.00	44.11	30.22	4.85	23.98	42.72	54.00	AV	PASS
	V	2483.50	54.66	30.22	4.85	23.98	53.27	74.00	PK	PASS
	V	2483.50	44.40	30.22	4.85	23.98	43.01	54.00	AV	PASS
	V	2500.00	53.67	30.22	4.85	23.98	52.28	74.00	PK	PASS
	V	2500.00	44.83	30.22	4.85	23.98	43.44	54.00	AV	PASS

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







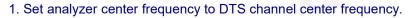
6.POWER SPECTRAL DENSITY TEST

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



- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz \leq RBW \leq 100 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.



F

www.zkt-lab.com



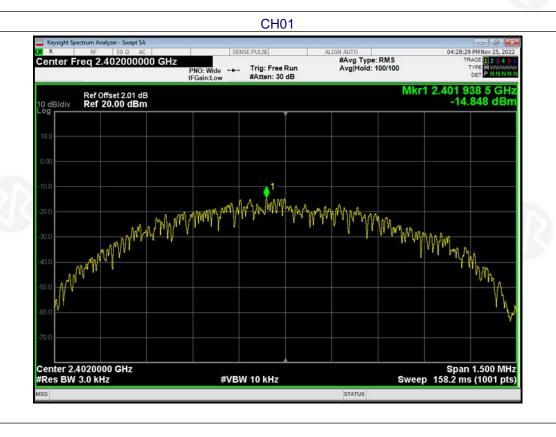


6.6 TEST RESULT

Temperature :	26 ℃	Relative Humidity :	54%
Test Mode :	GFSK	Test Voltage :	DC 24V

	Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	2402 MHz	-14.848	8	PASS
_	2440 MHz	-15.683	8	PASS
	2480 MHz	-15.749	8	PASS

1

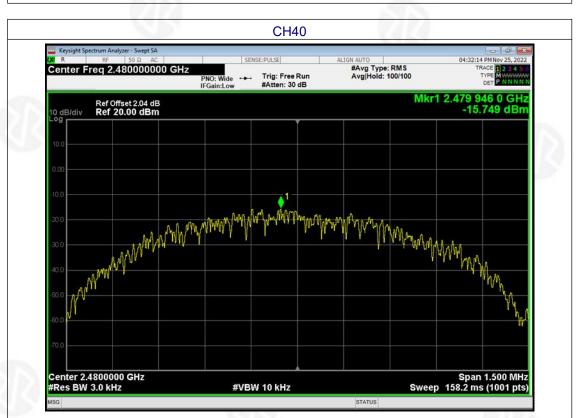
















7. CHANNEL BANDWIDTH

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

- Ð
- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 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

EUT	SPECTRUM
	ANALYZER

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.

Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

www.zkt-lab.com

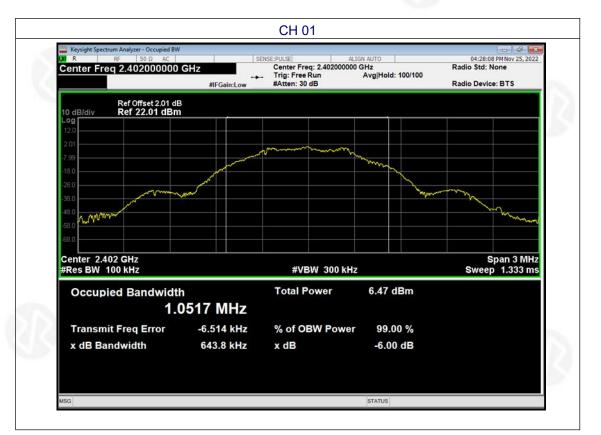




7.6 TEST RESULT

Temperature :	26 ℃	Relative Humidity :	54%
Test Mode :	GFSK	Test Voltage :	DC 24V

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.643		
Middle	0.660	>500	Pass
Highest	0.655	212	

















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

	FC	C Part15 (15.247) , Subp	oart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

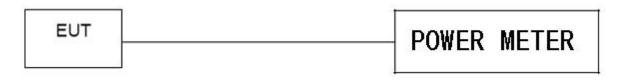
8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



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.









Temperature :	26 ℃	Relative Humidity :	54%
Test Mode :	GFSK	Test Voltage :	DC 24V

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	0.486		
Middle	0.184	30.00	Pass
Highest	-0.123	IS N	
	Lowest Middle	Lowest0.486Middle0.184	Lowest 0.486 Middle 0.184 30.00













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.
- \dot{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



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

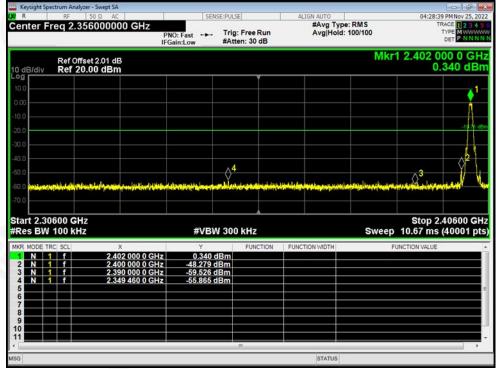




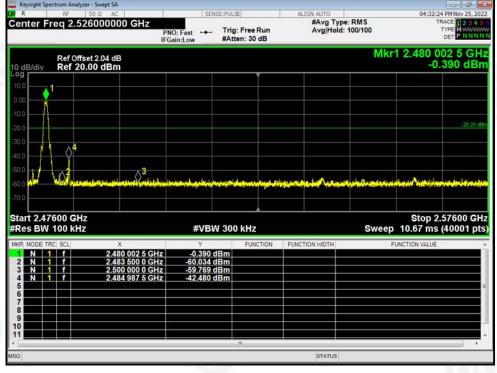




GFSK: Band Edge, Left Side



GFSK: Band Edge, Right Side





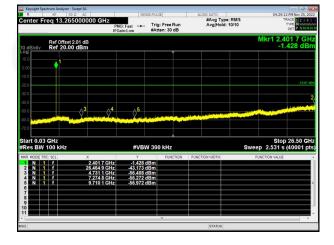




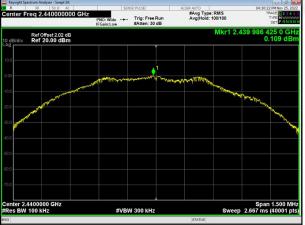
Project No.: ZKT-2211148467E Page 37 of 39

Lowest channel





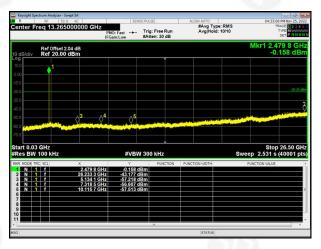
Middle channel



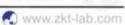
R		RF	zer - Swept SA 50 Ω AC	1				ALIGN A				04/20	:52 PM Nov 25, 2
	Fr		265000000	PNO): Fast	Trig	Free Run en: 30 dB	##		e:RMS 1:10/10			TRACE 2 3 4 TYPE N WWW DET P N N N
dB/di	v	Ref Off Ref 20	set 2.02 dB).00 dBm								Μ	kr1 2.	440 1 GI 1.824 dB
		()											
													-19.89
				A									1 Married Married
			Ŷ	0	0			a and a state of the	la facilita d	a desta de la cale			
		and the			¢°.	i i i i i i i i i i i i i i i i i i i	-	antinta anti					
		مكلين			°			g at the second					
urt 0.					<u>}</u>							Sto	p 26.50 G
rt 0.		GHz 100 kH	z		 #VB	W 300	kHz			S	weep	Sto 2.531	p 26.50 G s (40001 p
rt 0. es B	W 1	100 kH	x		Y	1	KHZ	FUNCTION	MDTH	s S		Sto 2.531 s	s (40001 p
rt 0. es B	W 1	100 kH	× 2.44	0 1 GHz	Y -1.824	dBm		FUNCTION	MDTH	S		2.531	s (40001 p
art 0. es B	W 1	100 kH	× 2.44 26.40 4.75	0 1 GHz	-1.824 -42.961 -56.949	dBm dBm dBm		FUNCTION	MDTH	S		2.531	s (40001 p
rt 0. 25 B		100 kH	× 2.44 26.40 4.78 7.35	00 1 GHz 6 7 GHz 7 6 GHz	-1.824 -42.961 -56.949 -56.781	dBm dBm dBm dBm		FUNCTION)	NDTH	S		2.531	s (40001 p
rt 0. es B	W 1	100 kH	× 2.44 26.40 4.78 7.35	0 1 GHz	-1.824 -42.961 -56.949	dBm dBm dBm dBm		FUNCTION)	VIDTH	S		2.531	s (40001 p
rt 0. 25 B		100 kH	× 2.44 26.40 4.78 7.35	00 1 GHz 6 7 GHz 7 6 GHz	-1.824 -42.961 -56.949 -56.781	dBm dBm dBm dBm		FUNCTION	NDTH	S		2.531	s (40001 p
rt 0. 25 B		100 kH	× 2.44 26.40 4.78 7.35	00 1 GHz 6 7 GHz 7 6 GHz	-1.824 -42.961 -56.949 -56.781	dBm dBm dBm dBm		FUNCTION	NDTH	s dura où		2.531	s (40001 p
MODE N N N		100 kH	× 2.44 26.40 4.78 7.35	00 1 GHz 6 7 GHz 7 6 GHz	-1.824 -42.961 -56.949 -56.781	dBm dBm dBm dBm		FUNCTION	NDTH	s		2.531	s (40001 p

Highest channel





20





10.ANTENNA REQUIREMENT



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 2.0dBi, reference to the appendix II for details





Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China







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 *****



