

Global United Technology Services Co., Ltd.

Report No.: GTS201806000066F01

FCC Report (Bluetooth)

FengShun Peiying Electro-Acoustic Co., Ltd Applicant:

No.8, Fengda Road, Tangkeng Town Industrial Area, **Address of Applicant:**

Fengshun County, Meizhou City, Guangdong Province, P.R.

China

Manufacturer/Factory: FengShun Peiying Electro-Acoustic Co., Ltd

Address of No.8, Fengda Road, Tangkeng Town Industrial Area,

Fengshun County, Meizhou City, Guangdong Province, P.R. Manufacturer/Factory:

Equipment Under Test (EUT)

Product Name: Car Multimedia Player

Model No.: VX3528, VX3228, VX7528, VX7228, VX7020N

Trade Mark: JENSEN

FCC ID: 2AFXA-VX3528

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: May 23, 2018

Date of Test: May 23, 2018 - June 01, 2018

June 01, 2018 Date of report issued:

Test Result: PASS *

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	June 01, 2018	Original

Prepared By:	Joseph Du	Date:	June 01, 2018
	Project Engineer		
Check By:	Andy W	Date:	June 01, 2018



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



5 General Information

5.1 General Description of EUT

Product Name:	Car Multimedia Player
Model No.:	VX3528, VX3228, VX7528, VX7228, VX7020N
Test Model No:	VX3528
Remark: All above models are The differences are model nar	identical in the same PCB layout, interior structure and electrical circuits. me for commercial purpose.
Serial No.:	NSD0001001
Test sample(s) ID:	GTS201806000066-1
Sample(s) Status	Engineer sample
Hardware:	06-103528-2002 V06
Software:	4.5NC
Operation Frequency:	2402MHz-2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Antenna Type:	PCB Antenna
Antenna gain:	1.2dBi
Power supply:	DC 12V



Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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	2441MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting 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 shows that condition's data.

5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.5 Other Information Requested by the Customer

None.

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number
GS	Supreme maintenance Free	S5D26R-MFZ	9442804454



5.7 Additional Instructions

EUT fixed frequency Settings:

Power level setup						
Support Units	Description	Manufacturer	Model			
	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500			
Mode	Channel	Frequency (MHz)	Level Set			
GFSK, Pi/4 QPSK, 8DPSK	CH1	2402	TV lavada			
	CH40	2441	TX level : maximum			
	CH79	2480	Παλιπαπ			





6 Test Instruments list

Radi	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 28 2017	June 27 2018		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 28 2017	June 27 2018		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2017	June 27 2018		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2017	June 27 2018		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 28 2017	June 27 2018		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	June 28 2017	June 27 2018		
10	Coaxial Cable	GTS	N/A	GTS211	June 28 2017	June 27 2018		
11	Coaxial cable	GTS	N/A	GTS210	June 28 2017	June 27 2018		
12	Coaxial Cable	GTS	N/A	GTS212	June 28 2017	June 27 2018		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 28 2017	June 27 2018		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 28 2017	June 27 2018		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2017	June 27 2018		
16	Band filter	Amindeon	82346	GTS219	June 28 2017	June 27 2018		
17	Power Meter	Anritsu	ML2495A	GTS540	June 28 2017	June 27 2018		
18	Power Sensor	Anritsu	MA2411B	GTS541	June 28 2017	June 27 2018		
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	June 28 2017	June 27 2018		

Conc	Conducted Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June 28 2017	June 27 2018			
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 28 2017	June 27 2018			
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June 28 2017	June 27 2018			
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A			
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
7	Thermo meter	KTJ	TA328	GTS233	June 28 2017	June 27 2018			

Gene	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Barometer	ChangChun	DYM3	GTS257	June 28 2017	June 27 2018	



7 Test results and Measurement Data

7.1 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.

E.U.T Antenna:

The antenna is PCB antenna, the best case gain of the antenna is 1.2dBi





7.2 Conducted Emissions

T .D	500 D 445 0 D 41 45 000		
Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10:2013		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto	
Limit:	Fraguency range (MHz)	Limit (c	dBuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithn	n of the frequency.	
Test setup:	Reference Plane		
	AUX Equipment E.U.T Filter AC power Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m		
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	N/A		



7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10:2013	
Limit:	30dBm(for GFSK),20.97dBm(for EDR)	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

Measurement Data

Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	6.00		
GFSK	Middle	6.56	30.00	Pass
	Highest	4.54		
	Lowest	4.98		
Pi/4QPSK	Middle	5.38	20.97	Pass
	Highest	3.52		
	Lowest	5.04		
8DPSK	Middle	5.50	20.97	Pass
	Highest	3.58		



Test plot as follows:





Lowest channel



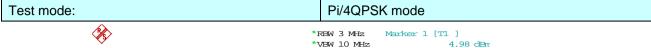
Middle channel





Highest channel





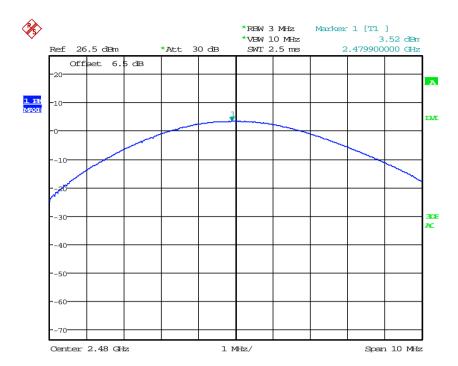


Lowest channel



Middle channel





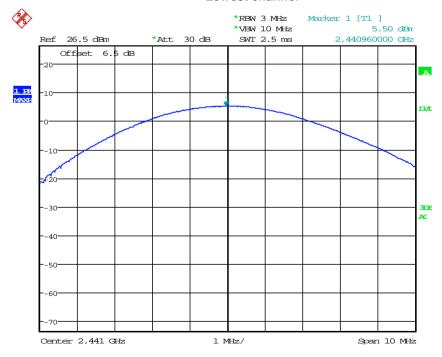
Highest channel







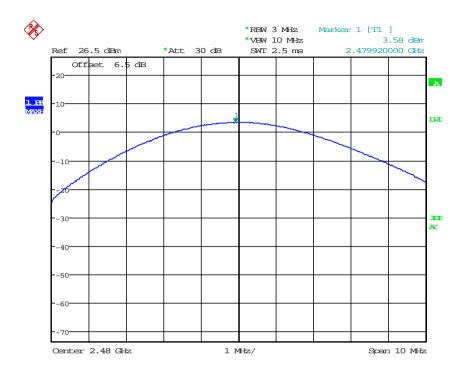
Lowest channel



Middle channel

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102





Highest channel



7.4 20dB Emission Bandwidth

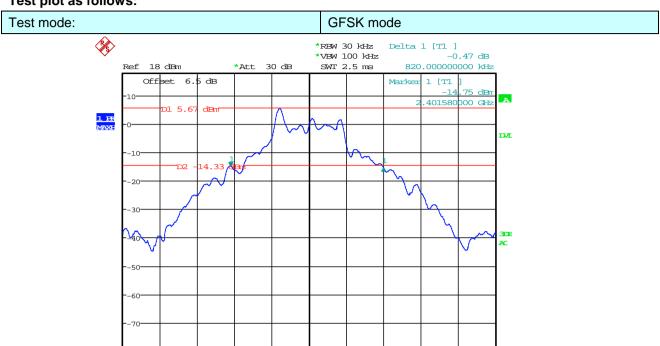
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
Test Method:	ANSI C63.10:2013	
Limit:	N/A	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

Measurement Data

Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
	Lowest	0.820	
GFSK	Middle	0.882	Pass
	Highest	0.824	
	Lowest	1.122	
Pi/4QPSK	Middle	1.122	Pass
	Highest	1.122	
	Lowest	1.176	
8DPSK	Middle	1.176	Pass
	Highest	1.176	



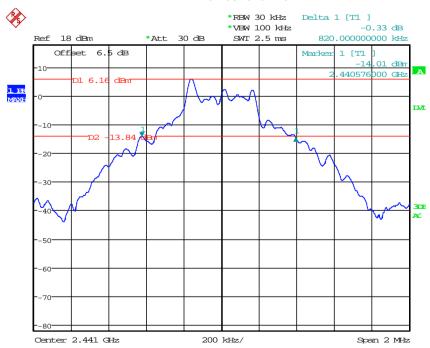
Test plot as follows:



Lowest channel

Span 2 MHz

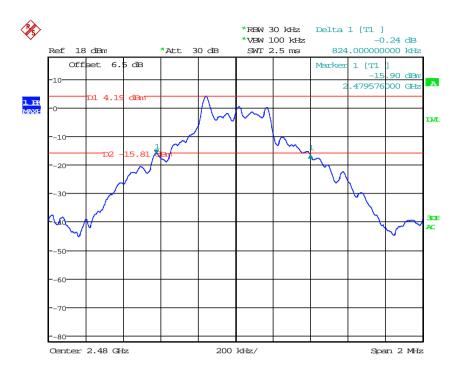
200 kHz/



Middle channel

Center 2.402 CHz

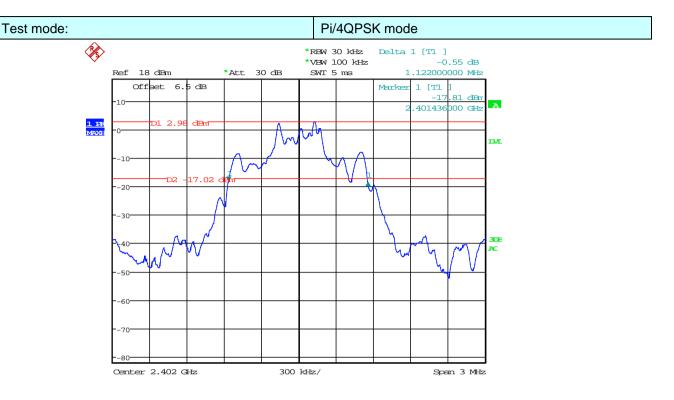




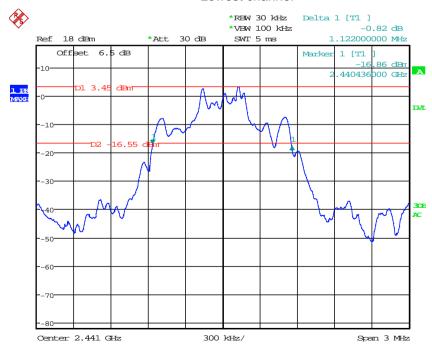
Highest channel





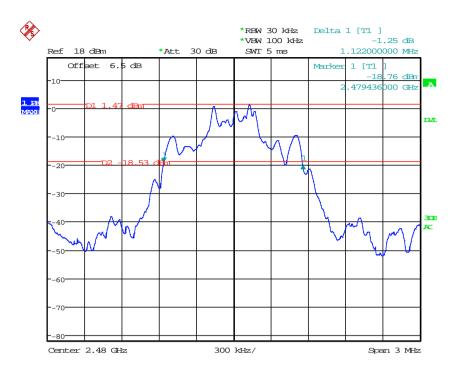


Lowest channel



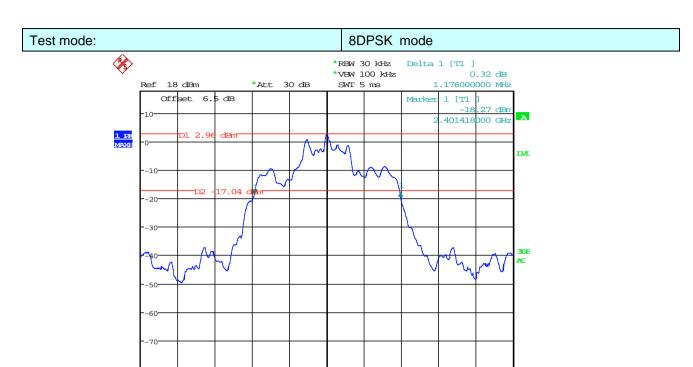
Middle channel





Highest channel

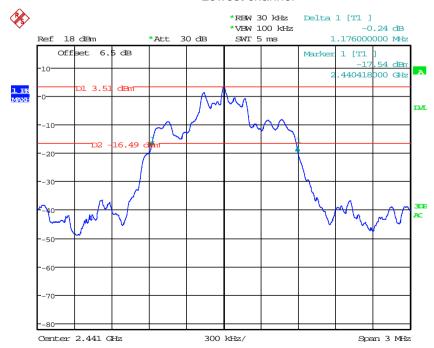




Lowest channel

Span 3 MHz

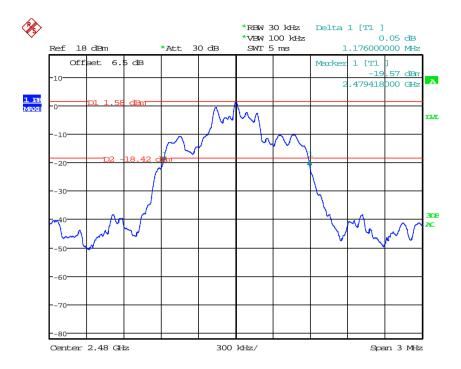
300 kHz/



Middle channel

Center 2.402 GHz





Highest channel



7.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2013	
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak	
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

Measurement Data

Mode	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
	Lowest	1000	824.00	Pass
GFSK	Middle	1004	824.00	Pass
	Highest	1004	824.00	Pass
	Lowest	1000	748.00	Pass
Pi/4QPSK	Middle	1004	748.00	Pass
	Highest	1000	748.00	Pass
	Lowest	1004	784.00	Pass
8DSK	Middle	1004	784.00	Pass
	Highest	1004	784.00	Pass

Note: According to section 7.4

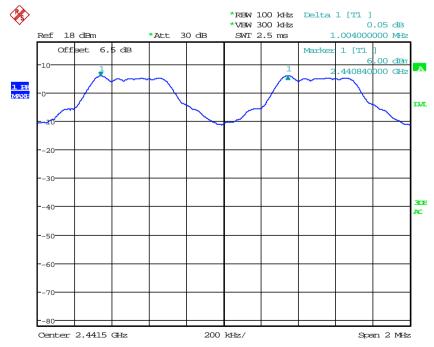
Note: Noording to dedict 1:4				
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)		
GFSK	824	824.00		
Pi/4QPSK	1122	748.00		
8DSK	1176	784.00		



Test plot as follows:



Lowest channel





Highest channel

Span 2 MHz

200 kHz/

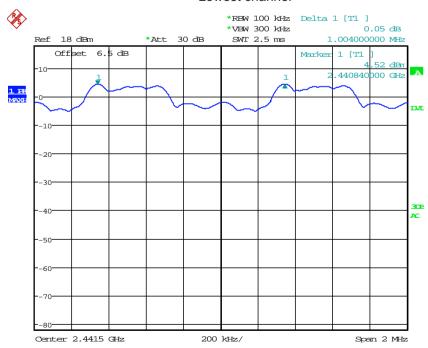
Center 2.4795 GHz





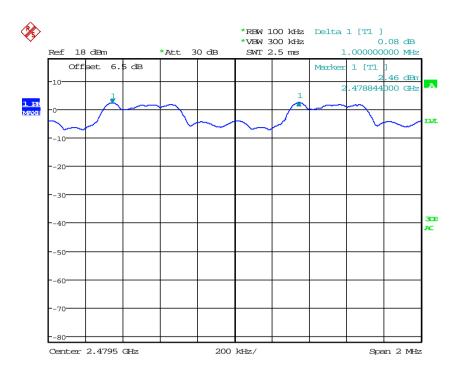


Lowest channel



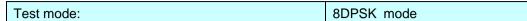
Middle channel

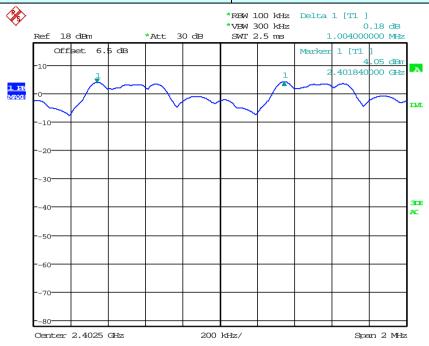




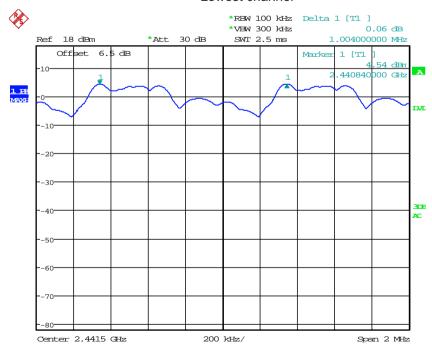
Highest channel







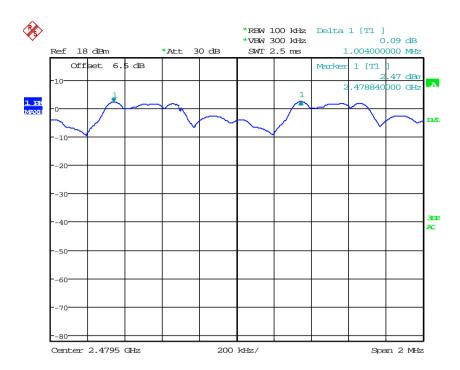
Lowest channel



Middle channel

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





Highest channel

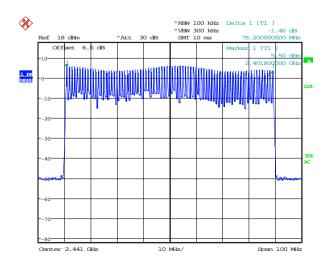


7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2013	
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak	
Limit:	15 channels	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK	79	15	Pass
Pi/4QPSK	79	15	Pass
8DPSK	79	15	Pass





7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2013	
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak	
Limit:	0.4 Second	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

Measurement Data

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	DH1/2-DH1/3-DH1	122.88	400	Pass
2441MHz	DH3/2-DH3/3-DH3	265.92	400	Pass
2441MHz	DH5/2-DH5/3-DH5	313.17	400	Pass

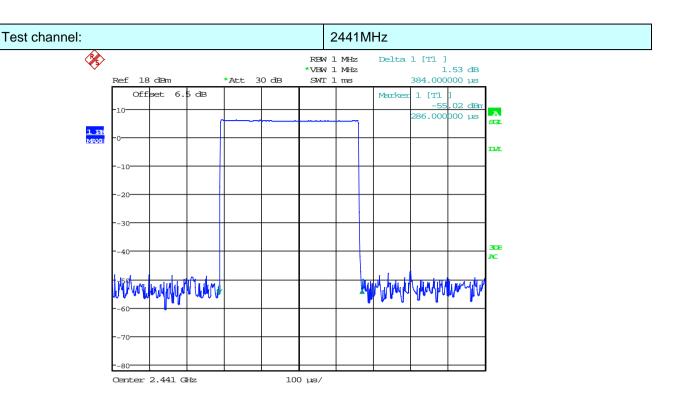
The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

Test channel: 2441MHz as blow

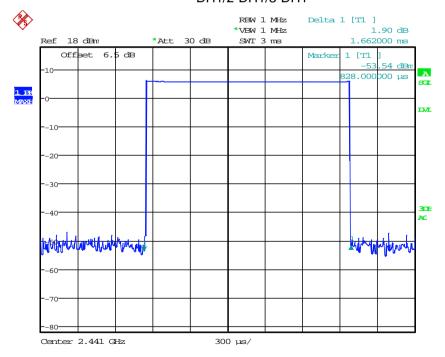
DH1/2-DH1/3-DH1 time slot=0.384(ms)*(1600/(2*79))*31.6=122.88ms DH3/2-DH3/3-DH3 time slot=1.662(ms)*(1600/(4*79))*31.6=265.92ms DH5/2-DH5/3-DH5 time slot=2.936(ms)*(1600/(6*79))*31.6=313.17ms

Test plot as follows:



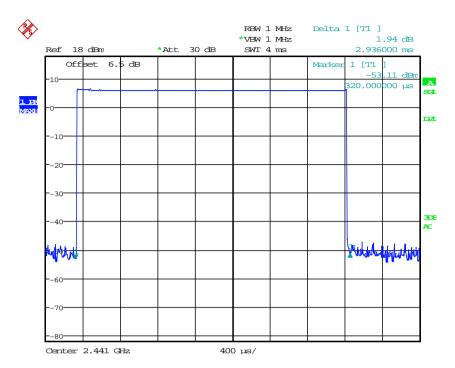


DH1/2-DH1/3-DH1



DH3/2-DH3/3-DH3





DH5/2-DH5/3-DH5



7.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

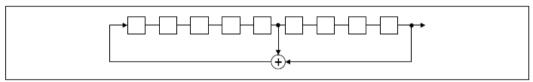
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹ -1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



7.9 Band Edge

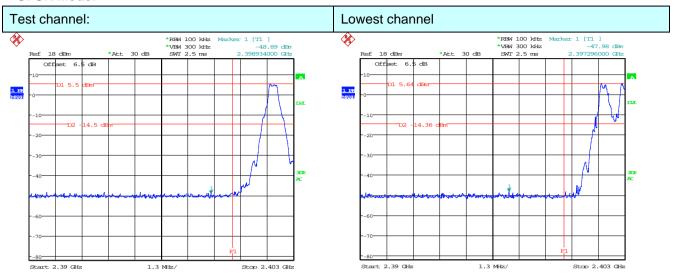
7.9.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013				
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak				
Limit:	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.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Test plot as follows:

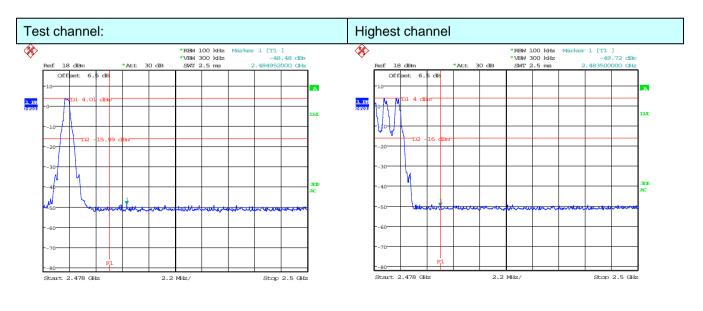


GFSK Mode:



No-hopping mode

Hopping mode

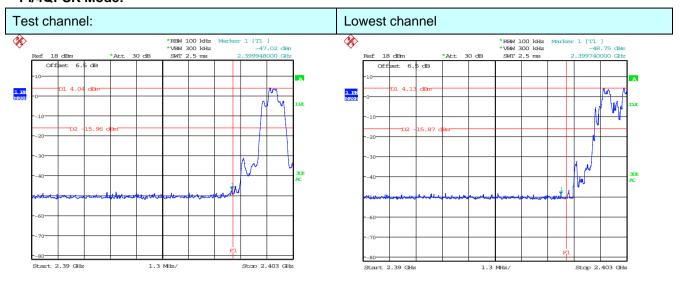


No-hopping mode

Hopping mode

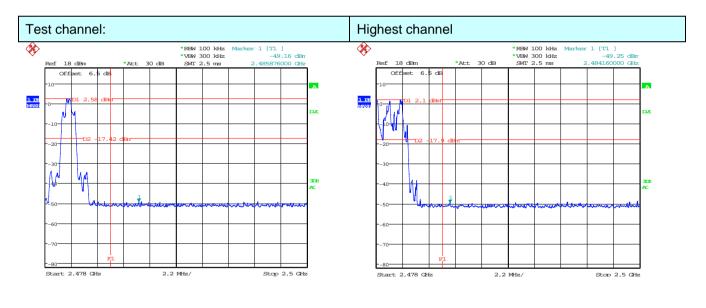


Pi/4QPSK Mode:



No-hopping mode

Hopping mode

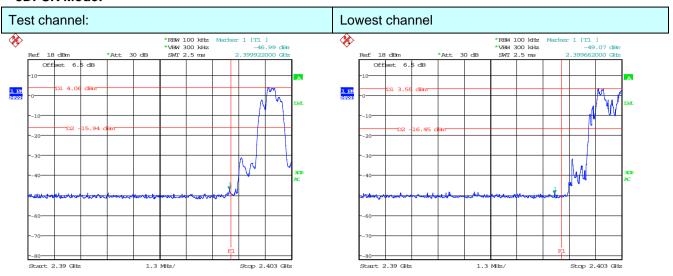


No-hopping mode

Hopping mode

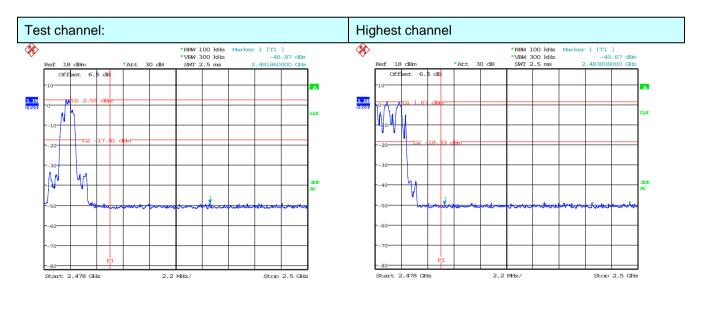


8DPSK Mode:



No-hopping mode

Hopping mode



No-hopping mode

Hopping mode



7.9.2 Radiated Emission Method

Test Requirement: Test Method: ANSI C63.10:2013 Test Frequency Range: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value Frequency Limit (dBuV/m@3m) Remark Above 1GHz Peak 1MHz 30M-z Average Value Frequency Limit (dBuV/m@3m) Remark Above 1GHz Peak 1MHz 10-lz Average Value Frequency Limit (dBuV/m@3m) Remark Above 1GHz 74.00 Peak Value Test setup: Test setup: Test setup: Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above to ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 then trota table was turned from 0 degrees to 360 degrees to find t maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 move using peak, quasi-peak average method as specified and then reported in a data sheet.	1.9.2 Radiated Emission We	, till od					
Test Frequency Range: All restriction band have been tested, and 2.3GHz to 2.5GHz band is surface case	Test Requirement:						
Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value Peak 1MHz 10Hz Average Value Above 1GHz Peak 1MHz 10Hz Average Value Above 1GHz Frequency Limit (dBuV/m @3m) Remark Above 1GHz T4.00 Peak Value Test setup: Test setup:	Test Method:	ANSI C63.10:20	13				
Frequency	Test Frequency Range:		nd have bee	en tested, and	2.3GHz to	2.5GHz band is the	
Limit: Peak 1MHz 3MHz Peak Value Peak 1MHz 10Hz Average Value	Test site:	Measurement Distance: 3m					
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above to ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst cas 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 to maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 of average method as specified and then reported in a data sheet.	Receiver setup:	Frequency					
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above to ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst cas 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 of average method as specified and then reported in a data sheet.		Above 1GHz					
Test setup: 1. The EUT was placed on the top of a rotating table 1.5 meters above to ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst cas 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 to maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 re-tested one by one using peak, quasi-peak average method as specified and then reported in a data sheet.	I too te	Frague					
Test setup: 1. The EUT was placed on the top of a rotating table 1.5 meters above to ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst cas 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 to maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 re-tested one by one using peak, quasi-peak of average method as specified and then reported in a data sheet.	Limit:						
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst cas 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 of average method as specified and then reported in a data sheet.		Above 1	GHz			Ŭ	
ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 of average method as specified and then reported in a data sheet.		Test Antenna. Tum Table. Sum Am > 1 <150cm > 1					
	restrictedure.	ground at a 3 determine the 2. The EUT was antenna, which tower. 3. The antenna ground to det horizontal and measurement 4. For each sus and then the and the rota to maximum reasonable 5. The test-rece Specified Bares 6. If the emission limit specified EUT would be 10dB margin	meter cambe position of the position of the position of the set 3 meters where the was mount the position of t	er. The table was set to Peak Maximum Hole EUT in peak g could be stop otherwise the etested one by the highest one by	was rotated diation. The interference of a variable of the field the antenna was arrang this from 1 regrees to 36 at Detect Field Mode. The mode was apped and the missions the one using particular interference in the mode was one united to the mode was one using particular interference in the mo	and degrees to ance-receiving ole-height antenna ar meters above the distrength. Both are set to make the ed to its worst case meter to 4 meters 0 degrees to find the anction and and another than the near than the near than the peak values of the neat did not have peak, quasi-peak or	
Test Instruments: Refer to section 6.0 for details	Test Instruments:	Refer to section	6.0 for detail	s			
Test mode: Refer to section 5.2 for details	Test mode:	Refer to section	5.2 for detail	s			
Test results: Pass	Test results:	Pass					



Remark:

1. During the test, pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	56.27	-15.05	41.22	74.00	-32.78	Horizontal
2400.00	78.13	-15.01	63.12	74.00	-10.88	Horizontal
2390.00	55.07	-15.05	40.02	74.00	-33.98	Vertical
2400.00	72.84	-15.01	57.83	74.00	-16.17	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	42.68	-15.05	27.63	54.00	-26.37	Horizontal
2400.00	56.81	-15.01	41.80	54.00	-12.20	Horizontal
2390.00	43.13	-15.05	28.08	54.00	-25.92	Vertical
2400.00	57.49	-15.01	42.48	54.00	-11.52	Vertical

Test channel:	Highest
1 Cot onamic.	i lightest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	74.69	-14.68	60.01	74.00	-13.99	Horizontal
2500.00	54.12	-14.60	39.52	74.00	-34.48	Horizontal
2483.50	73.41	-14.68	58.73	74.00	-15.27	Vertical
2500.00	52.18	-14.60	37.58	74.00	-36.42	Vertical

Average value:

71101ugo valuo.								
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
2483.50	53.36	-14.68	38.68	54.00	-15.32	Horizontal		
2500.00	42.28	-14.60	27.68	54.00	-26.32	Horizontal		
2483.50	55.07	-14.68	40.39	54.00	-13.61	Vertical		
2500.00	44.14	-14.60	29.54	54.00	-24.46	Vertical		

Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. Correct factor= Antenna Factor + Cable Loss Preamplifier Factor

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Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



7.10 Spurious Emission

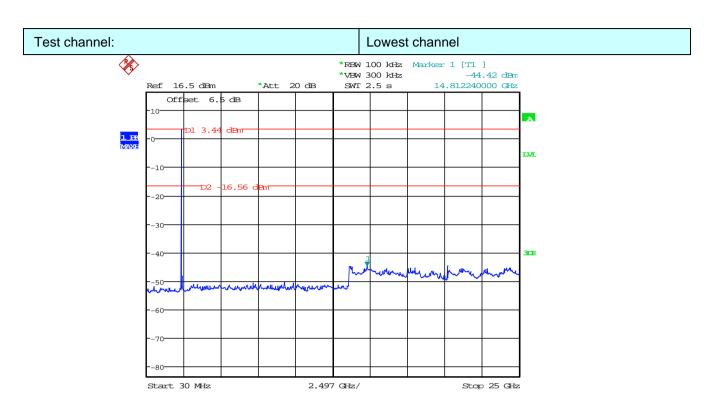
7.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 Meas Guidance V04				
Limit:	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.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

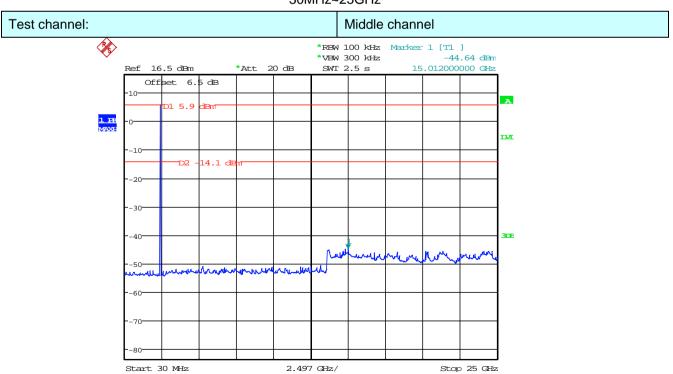
Remark:

During the test, pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.



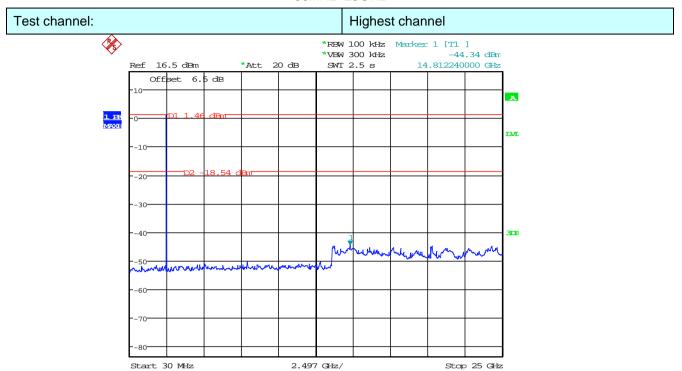


30MHz~25GHz





30MHz~25GHz



30MHz~25GHz

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

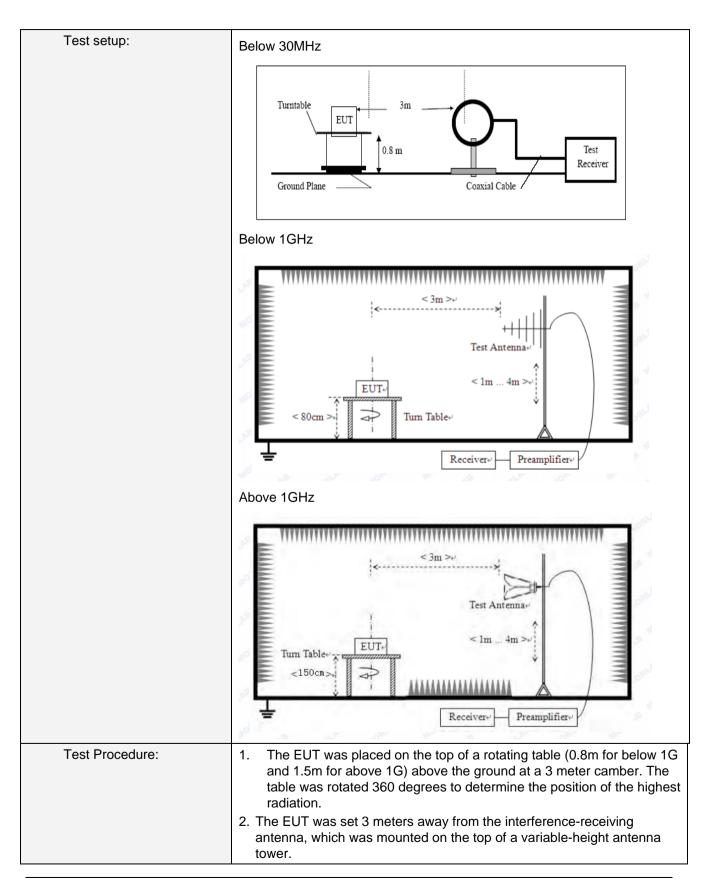
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7.10.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	D	etector	RB\	W	VB\	W	Value	
	9KHz-150KHz	Qu	asi-peak	2001	Hz	600I	Hz	Quasi-peak	
	150KHz-30MHz	Qu	asi-peak	9KF	Ηz	30K	Hz	Quasi-peak	
	30MHz-1GHz	Qu	asi-peak	100K	Ήz	300K	Ήz	Quasi-peak	
	Above 1GHz		Peak	1MF	Ηz	ЗМЬ	Ηz	Peak	
	Above 10112		Peak	1MF	Ηz	10H	łz	Average	
Limit:	Frequency		Limit	(dBuV/		3m)		Remark	
(Field strength of the fundamental signal)	2400MHz-2483.5	MHz	94.0 114.0					Average Value Peak Value	
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		Value		ı	Measurement Distance	
	0.009MHz-0.490M	lHz	Hz 2400/F(KI		(QΡ		300m	
	0.490MHz-1.705M	lHz	24000/F(KHz		lz) QP			300m	
	1.705MHz-30MH	lz	30		QP		30m		
	30MHz-88MHz		100			QΡ			
	88MHz-216MHz	<u>z</u>	150	Q		QP			
	216MHz-960MH	z	200		(QΡ		3m	
	960MHz-1GHz		500		(QΡ		3111	
	Above 1GHz		500		Ave	erage			
	Above Toriz		5000)	Р	eak			
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.								







	 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Remark:

- 1. During the test, pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



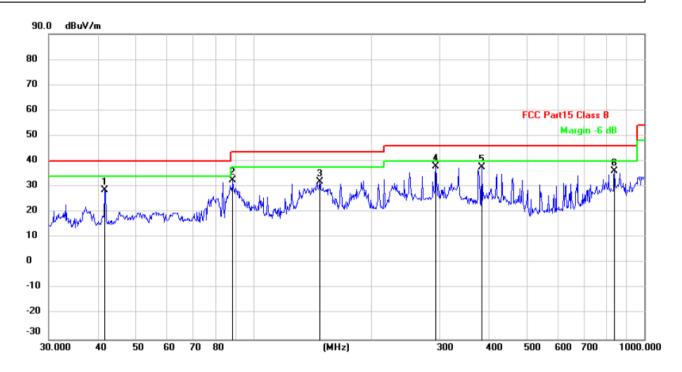
Below 1GHz Horizontal:

EUT: Car Mulitmedia Player Polarziation: Horizontal

Model: VX3528 Power Source: DC 12V Mode: BT mode Test by: Bill

Temp./Hum.(%H): 26°C/60%RH

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		41.7129	61.99	-33.37	28.62	40.00	-11.38	QP
2		88.6524	71.63	-39.12	32.51	43.50	-10.99	QP
3		147.9214	66.68	-34.75	31.93	43.50	-11.57	QP
4	*	293.0842	73.21	-35.15	38.06	46.00	-7.94	QP
5		383.9318	70.37	-32.82	37.55	46.00	-8.45	QP
6		839.1817	60.75	-24.62	36.13	46.00	-9.87	QP



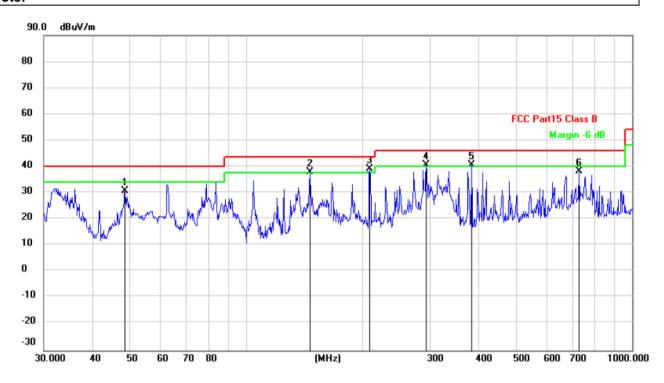
Vertical:

EUT: Car Mulitmedia Player Polarziation: Vertical

Model: VX3528 Power Source: DC 12V Mode: BT mode Test by: Bill

Temp./Hum.(%H): 26℃/60%RH

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		48.6719	64.86	-34.08	30.78	40.00	-9.22	QP
2	İ	146.3735	72.77	-34.83	37.94	43.50	-5.56	QP
3	*	209.3129	77.51	-38.34	39.17	43.50	-4.33	QP
4	İ	293.0842	75.72	-35.15	40.57	46.00	-5.43	QP
5	İ	383.9318	73.58	-32.82	40.76	46.00	-5.24	QP
6		729.3582	64.32	-25.95	38.37	46.00	-7.63	QP



■ Above 1GHz

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	58.72	-7.43	51.29	74.00	-22.71	Vertical
7206.00	57.36	-2.42	54.96	74.00	-19.06	Vertical
9608.00	58.03	-2.38	55.65	74.00	-18.35	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	60.12	-7.43	52.69	74.00	-21.31	Horizontal
7206.00	58.71	-2.42	56.29	74.00	-17.71	Horizontal
9608.00	57.66	-2.38	55.28	74.00	-18.72	Horizontal
12010.00	*			74.00		Horizontal
14412.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	48.36	-7.43	40.98	54.00	-13.07	Vertical
7206.00	47.03	-2.42	44.61	54.00	-9.39	Vertical
9608.00	46.03	-2.38	43.65	54.00	-10.35	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	48.54	-7.43	41.11	54.00	-12.89	Horizontal
7206.00	47.86	-2.42	45.44	54.00	-8.56	Horizontal
9608.00	46.55	-2.38	44.17	54.00	-9.83	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal

Remark

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test channel: Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	59.75	-7.49	52.26	74.00	-21.74	Vertical
7323.00	58.85	-2.40	56.45	74.00	-17.55	Vertical
9764.00	58.66	-2.38	56.28	74.00	-17.72	Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	60.03	-7.49	52.54	74.00	-21.46	Horizontal
7323.00	58.76	-2.40	56.36	74.00	-17.64	Horizontal
9764.00	57.64	-2.38	55.26	74.00	-18.74	Horizontal
12205.00	*			74.00		Horizontal
14646.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	52.31	-7.49	44.82	54.00	-9.18	Vertical
7323.00	48.01	-2.40	45.61	54.00	-8.39	Vertical
9764.00	48.96	-2.38	46.58	54.00	-7.42	Vertical
12205.00	*			54.00		Vertical
14646.00	*			54.00		Vertical
4882.00	48.42	-7.49	40.93	54.00	-13.07	Horizontal
7323.00	47.85	-2.40	45.45	54.00	-8.55	Horizontal
9764.00	49.61	-2.38	47.23	54.00	-6.77	Horizontal
12205.00	*			54.00		Horizontal
14646.00	*			54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Correct facto
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test channel:	Highest
	5

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	59.46	-7.47	51.99	74.00	-22.01	Vertical
7440.00	58.45	-2.45	56.00	74.00	-18.00	Vertical
9920.00	57.74	-2.37	55.37	74.00	-18.63	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	60.42	-7.47	52.95	74.00	-21.05	Horizontal
7440.00	59.53	-2.45	57.08	74.00	-16.92	Horizontal
9920.00	59.13	-2.37	56.76	74.00	-17.24	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal

Average value:

Avorage value.								
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	47.85	-7.47	40.38	54.00	-13.62	Vertical		
7440.00	48.37	-2.45	45.92	54.00	-8.08	Vertical		
9920.00	48.84	-2.37	46.47	54.00	-7.53	Vertical		
12400.00	*			54.00		Vertical		
14880.00	*			54.00		Vertical		
4960.00	51.69	-7.47	44.22	54.00	-9.78	Horizontal		
7440.00	50.27	-2.45	47.82	54.00	-6.18	Horizontal		
9920.00	47.96	-2.37	45.59	54.00	-8.41	Horizontal		
12400.00	*			54.00		Horizontal		
14880.00	*			54.00		Horizontal		

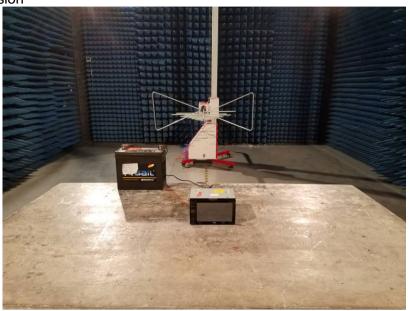
Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.



8 Test Setup Photo

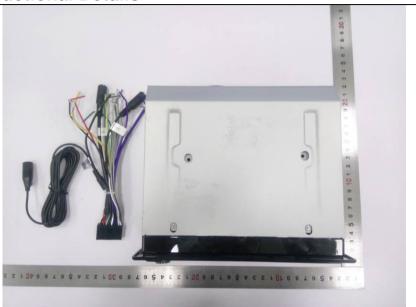
Radiated Emission

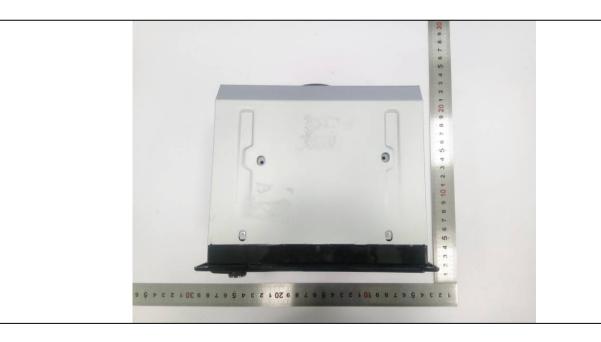






9 EUT Constructional Details





Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102









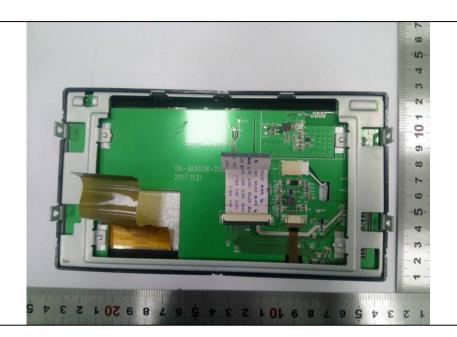


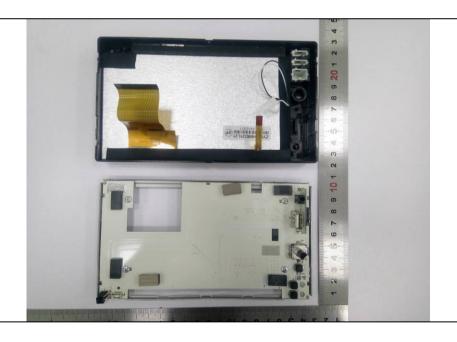




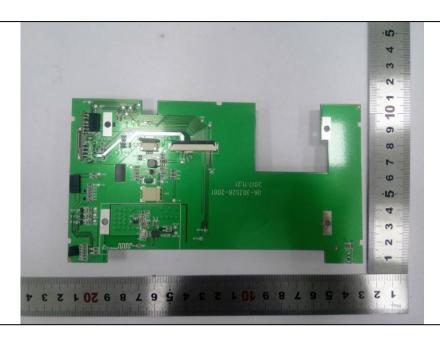


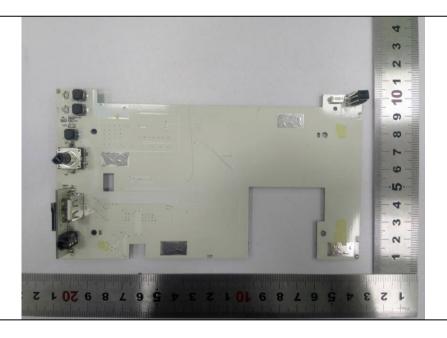




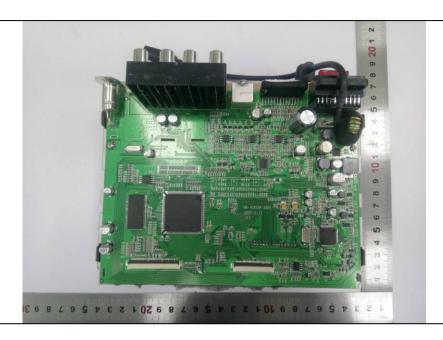












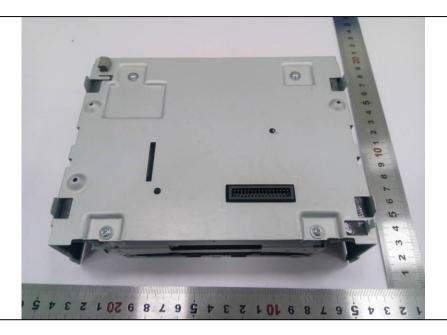


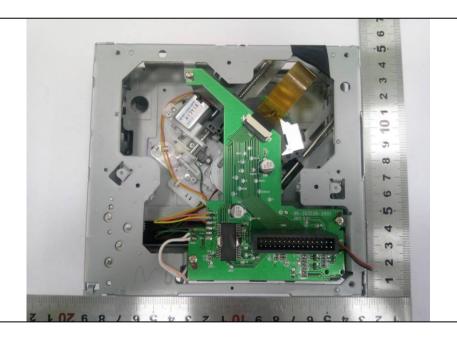




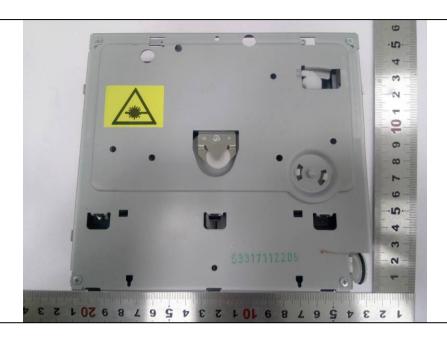






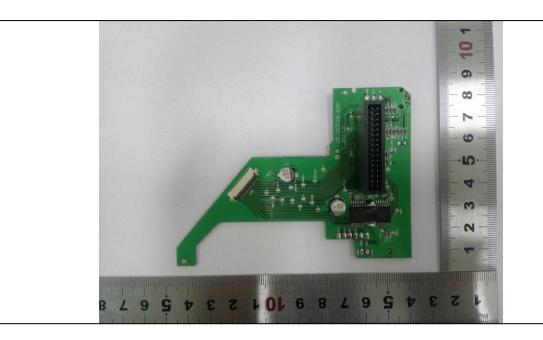


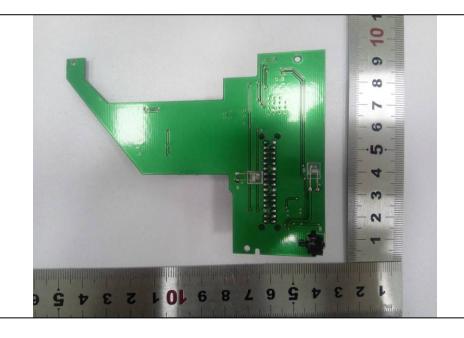






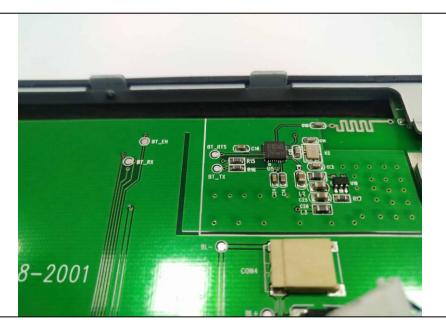




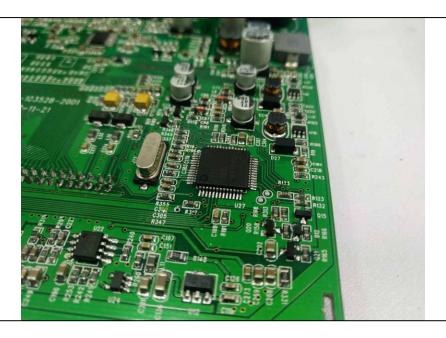


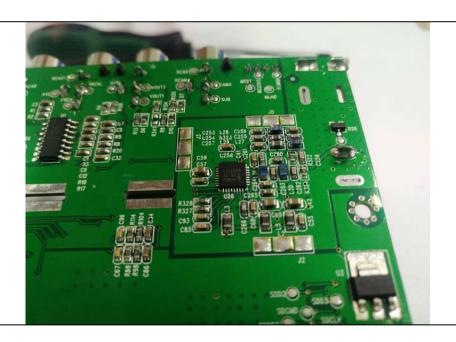












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