

Report No.: BLA-EMC-201908-A10-01

FCC Report (Bluetooth)

Product Name AM/FM/CD/MP3 Receiver

Trade mark DUAL

Model No. XDM290BT

FCC ID 2AFXA-XDM290BT

Report Number BLA-EMC-201908-A10-01

Date of sample receipt : August 02, 2019

: August 02, 2019–August 12, 2019 Date of Test

Date of Issue August 13, 2019

Test standard : FCC CFR Title 47 Part 15 Subpart C Section

15.247

Test result **PASS**

Prepared for:

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Prepared by:

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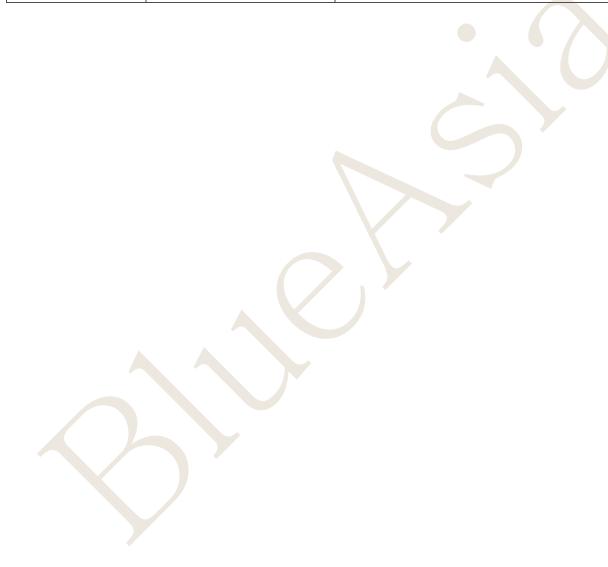


Report No.: BLA-EMC-201908-A10-01

Page 2 of 39

2 Version

Version No.	Date	Description
00	August 13, 2019	Original



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Report No.: BLA-EMC-201908-A10-01 Page 3 of 39

3 Contents

		Page
1	COVER PAGEFCC REPORT (BLUETOOTH)	1
2	VERSION	2
3	CONTENTS	
4	TEST SUMMARY	
	GENERAL INFORMATION	
5		
	5.1 GENERAL DESCRIPTION OF EUT	
	5.2 TEST MODE	
	5.4 TEST LOCATION	
	5.5 OTHER INFORMATION REQUESTED BY THE CUSTOMER	7
	5.6 DESCRIPTION OF SUPPORT UNITS	7
6	TEST INSTRUMENTS LIST	8
7	TEST RESULTS AND MEASUREMENT DATA	10
	7.1 ANTENNA REQUIREMENT	10
	7.2 CONDUCTED EMISSIONS	
	7.3 CONDUCTED PEAK OUTPUT POWER	
	7.4 20dB Emission Bandwidth	
	7.6 HOPPING CHANNEL NUMBER	
	7.7 DWELL TIME	
	7.8 PSEUDORANDOM FREQUENCY HOPPING SEQUENCE	
	7.9 BAND EDGE	
	7.9.2 Radiated Emission Method	
	7.10 Spurious Emission	21
	7.10.1 Conducted Emission Method	
	7.10.2 Radiated Emission Method	
8	TEST SETUP PHOTO	30
9	EUT CONSTRUCTIONAL DETAILS	31

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Report No.: BLA-EMC-201908-A10-01 Page 4 of 39

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	0dB Occupied Bandwidth 15.247 (a)(1)		
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 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%.

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Report No.: BLA-EMC-201908-A10-01 Page 5 of 39

5 General Information

5.1 General Description of EUT

Product Name:	AM/FM/CD/MP3 Receiver
Model No.:	XDM290BT
Test Model No.:	XDM290BT
	are identical in the same PCB layout, interior structure and electrical circuits. name for commercial purpose.
Serial No.:	N/A
Sample(s) Status	Engineer sample
Hardware:	VER: 02
Software:	VER: 0731
Operation Frequency:	2402MHz-2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	PCB Antenna
Antenna gain:	1.2dBi
Power supply:	DC 12V

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Report No.: BLA-EMC-201908-A10-01 Page 6 of 39

Operation Frequency each of channel							
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

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Report No.: BLA-EMC-201908-A10-01 Page 7 of 39

5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: Full battery is used during all test except ac conducted emission, DH1, DH3, DH5 all have been tested, only worse case is reported.

5.3 Test Facility

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

• FCC — Designation No.: CN1252

Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Designation CN1252.

•ISED — CAB identifier No.: CN0028

Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with CAB identifier CN0028

5.4 Test Location

All tests were performed at:

All tests were performed at:

Qianhai BlueAsia of Technical Services(Shenzhen) Co., Ltd.

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No tests were sub-contracted.

5.5 Other Information Requested by the Customer

None.

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number
CHILWEE	Storage battery	MH1805	N/A
Lenovo	Notebook computer	E470C	PF-10FB5C

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Report No.: BLA-EMC-201908-A10-01 Page 8 of 39

6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m SAC	SKET	9m*6 m*6m	966	06-10-2018	06-09-2023	
2	Broadband Antenna	SCHWARZBECK	VULB9168	00836 P:00227	07-14-2019	07-13-2020	
3	Horn Antenna	SCHWARZBECK	9120D	01892 P:00331	07-14-2019	07-13-2020	
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A	
5	Pre-amplifier	SKET	N/A	N/A	07-19-2019	07-18-2020	
6	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2019	05-23-2020	
7	EMI Test Receiver	Rohde & Schwarz	ESR7	101199	03-21-2019	03-20-2020	
8	Controller	SKET	N/A	N/A	N/A	N/A	
9	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2019	05-23-2020	
10	Signal Generator	Agilent	E8257D	MY44320250	05-24-2019	05-23-2020	
11	Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A	
12	Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A	
13	Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A	

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Report No.: BLA-EMC-201908-A10-01 Page 9 of 39

Conduc	Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	EMI Test Receiver	Rohde & Schwarz	ESPI3	101082	06-10-2019	06-09-2020		
2	LISN	CHASE	MN2050D	1447	12-18-2018	12-17-2019		
3	LISN	Rohde & Schwarz	ENV216	3560.6550.15	07-19-2019	07-18-2020		
4	EMI Test Software	EZ	EZ	N/A	N/A	N/A		
5	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2019	07-18-2020		
6	Coaxial Cable	BlueAsia	BLA-XC-05	N/A	N/A	N/A		

RF Cond	RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Spectrum Analyzer	Agilent	N9030A	MY50510123	05-24-2019	05-23-2020	
2	Spectrum analyzer	Rohde & Schwarz	FSP40	100817	05-24-2019	05-23-2020	
3	MXA Signal Analyzer	Agilent	N9020A	MY49100060	12-18-2018	12-17-2019	
4	Vector Signal Generator	Agilent	N5182A	MY49060650	12-18-2018	12-17-2019	
5	Vector Signal Generator	Agilent	E4438C	MY45092582	05-24-2019	05-23-2020	
6	Signal Generator	Agilent	E8257D	MY44320250	05-24-2019	05-23-2020	
7	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO27	05-24-2019	05-23-2020	
8	Power Sensor	D.A.R.E	RPR3006W	17I00015SNO28	05-24-2019	05-23-2020	
9	DC Power Supply	LODESTAR	LP305DE	N/A	07-19-2019	07-18-2020	
10	Temperature Humidity Chamber	Mingle	TH101B	N/A	07-19-2019	07-18-2020	

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Report No. : BLA-EMC-201908-A10-01 Page 10 of 39

7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

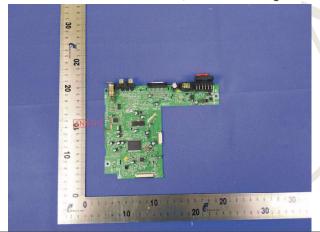
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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



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Report No.: BLA-EMC-201908-A10-01 Page 11 of 39

7.2 Conducted Emissions

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, St	weep time=auto				
Limit:	Fraguency range (MHz)	Limit (d	BuV)			
	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 Filter AC power Equipment E.U.T EMI Receiver 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					

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Report No.: BLA-EMC-201908-A10-01 Page 12 of 39

7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10:2013		
Limit:	21dBm(for GFSK),21dBm(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

Reference to the AppendixC: Maximum conducted output power

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Report No.: BLA-EMC-201908-A10-01 Page 13 of 39

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

Reference to the AppendixA: 20dB Emission Bandwidth

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Report No.: BLA-EMC-201908-A10-01 Page 14 of 39

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:	GFSK & Pi/4QPSK & 8-DPSK: 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

Reference to the AppendixD: Carrier frequency separation

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Report No.: BLA-EMC-201908-A10-01 Page 15 of 39

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:

Reference to the AppendixF: Number of hopping channels

 $\label{thm:condition} \mbox{Qianhai BlueAsia of Technical Services} (\mbox{Shenzhen}) \mbox{ Co., Ltd.}$

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Report No. : BLA-EMC-201908-A10-01 Page 16 of 39

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

Reference to the AppendixE: Time of occupancy

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Report No.: BLA-EMC-201908-A10-01 Page 17 of 39

7.8 Pseudorandom Frequency Hopping Sequence

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

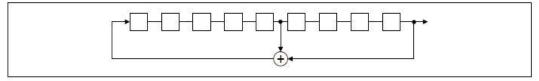
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

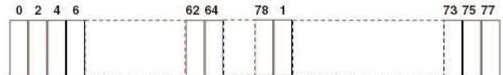
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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

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Report No.: BLA-EMC-201908-A10-01 Page 18 of 39

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		

Measurement Data

Reference to the AppendixG:Band edge measurements

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Report No.: BLA-EMC-201908-A10-01 Page 19 of 39

7.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	All restriction band have been tested, and 2310MHz to 2390MHz, 2483.5MHz to 2500MHz band is the worse case				
Test site:	Measurement D	istance: 3m			
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Above IGIIZ	Peak	1MHz	10Hz	Average Value
Limit:	Freque	ncy	Limit (dBuV/		Remark
	Above 1	GHz	54.0 74.0		Average Value Peak Value
Test setup:	Tum Table Company Preamplifier Company				
Test Procedure:	 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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 				
Test Instruments:	Refer to section	nod as specifie 6.0 for details			
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

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Report No.: BLA-EMC-201908-A10-01

Page 20 of 39

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

nel: Lowest					
Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
55.19	-14.56	40.63	74.00	-33.37	Horizontal
58.37	-14.19	44.18	74.00	-29.82	Horizontal
57.82	-14.85	42.97	74.00	-31.03	Vertical
62.34	-14.52	47.82	74.00	-26.18	Vertical
Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
43.31	-14.56	28.75	54.00	-25.25	Horizontal
44.38	-14.19	30.19	54.00	-23.81	Horizontal
44.93	-14.85	30.08	54.00	-23.92	Vertical
47.40	-14.52	32.88	54.00	-21.12	Vertical
	(dBuV) 55.19 58.37 57.82 62.34 : Read Level (dBuV) 43.31 44.38 44.93	Read Level (dBuV) factor (dB/m) 55.19 -14.56 58.37 -14.19 57.82 -14.85 62.34 -14.52 Correct factor (dB/m) 43.31 -14.56 44.38 -14.19 44.93 -14.85	Read Level (dBuV) Correct factor (dB/m) Level (dBuV/m) 55.19 -14.56 40.63 58.37 -14.19 44.18 57.82 -14.85 42.97 62.34 -14.52 47.82 Eread Level (dBuV) Level (dBuV/m) 43.31 -14.56 28.75 44.38 -14.19 30.19 44.93 -14.85 30.08	Read Level (dBuV) Correct factor (dB/m) Level (dBuV/m) Limit Line (dBuV/m) 55.19 -14.56 40.63 74.00 58.37 -14.19 44.18 74.00 57.82 -14.85 42.97 74.00 62.34 -14.52 47.82 74.00 Eead Level (dBuV) Limit Line (dBuV/m) (dBwV/m) Level (dBuV/m) Limit Line (dBuV/m) 43.31 -14.56 28.75 54.00 44.38 -14.19 30.19 54.00 44.93 -14.85 30.08 54.00	Read Level (dBuV) Correct factor (dB/m) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) 55.19 -14.56 40.63 74.00 -33.37 58.37 -14.19 44.18 74.00 -29.82 57.82 -14.85 42.97 74.00 -31.03 62.34 -14.52 47.82 74.00 -26.18 Evel (dBuV) Limit Line (dBuV/m) Over Limit (dB) (dBuV/m) (dBuV/m) 0.00 -25.25 44.38 -14.19 30.19 54.00 -23.81 44.93 -14.85 30.08 54.00 -23.92

Test channel:	Highest

Peak value:

I dan varadi						
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	56.08	-13.66	42.42	74.00	-31.58	Horizontal
2500.00	61.77	-13.57	48.20	74.00	-25.80	Horizontal
2483.50	57.42	-14.05	43.37	74.00	-30.63	Vertical
2500.00	66.66	-13.97	52.69	74.00	-21.31	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	43.27	-13.66	29.61	54.00	-24.39	Horizontal
2500.00	47.44	-13.57	33.87	54.00	-20.13	Horizontal
2483.50	44.64	-14.05	30.59	54.00	-23.41	Vertical
2500.00	48.43	-13.97	34.46	54.00	-19.54	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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Report No.: BLA-EMC-201908-A10-01 Page 21 of 39

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			
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			

Measurement Data

Reference to the AppendixH:Conducted SpuriousEmission

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Report No.: BLA-EMC-201908-A10-01 Page 22 of 39

7.10.2 Radiated Emission Method

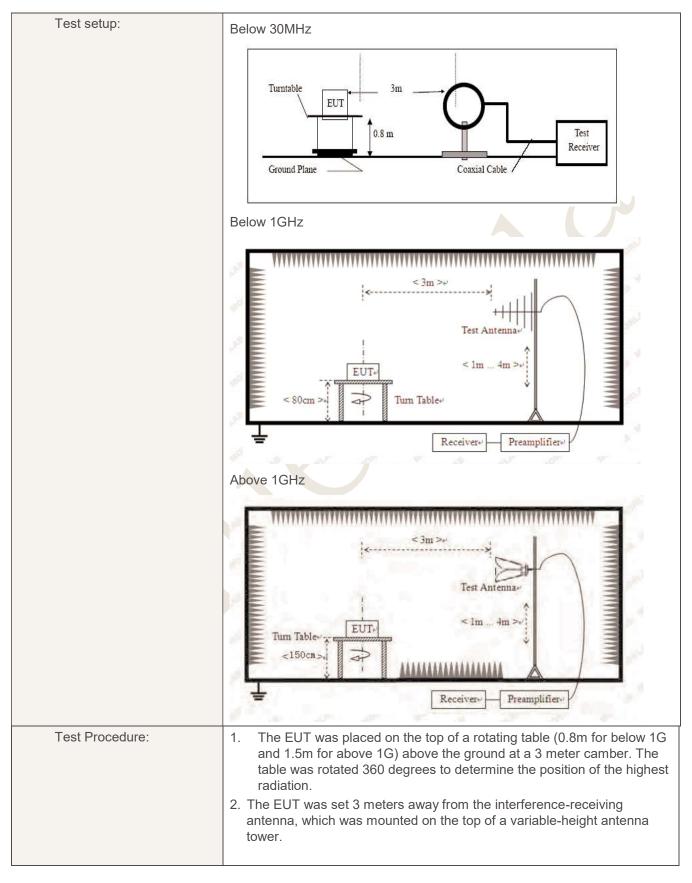
Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distar	nce: 3	3m						
Receiver setup:	Frequency		Detector	RB\	N	VBW	'	Value	
	9KHz-150KHz	Qι	uasi-peak	2001	Hz	600H	z	Quasi-peak	
	150KHz-30MHz	Qι	uasi-peak	9KF	Ηz	30KH	z	Quasi-peak	
	30MHz-1GHz	Qι	uasi-peak	120K	Ήz	300KF	lz	Quasi-peak	
	Above 4011		Peak	1MF	Hz _	3MHz	Z	Peak	
	Above 1GHz		Peak	1MF	Ηz	10Hz	2	Average	
Limit: (Spurious Emissions)	Frequency		Limit (u\	Limit (uV/m)		Value		Measurement Distance	
	0.009MHz-0.490M	lHz	2400/F(k	2400/F(KHz)		QP		300m	
	0.490MHz-1.705M	lHz	24000/F(KHz)		z) QP		30m		
	1.705MHz-30MH	lz	30		QP		30m		
	30MHz-88MHz		100		QP				
	88MHz-216MHz	Z	150		QP			3m	
	216MHz-960MH	Z	200		QP				
	960MHz-1GHz		500			QP		3111	
	Above 1GHz	Above 40115 500			Av	erage			
	Above IGH2 5000 Peak					Peak			
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.								

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Report No.: BLA-EMC-201908-A10-01 Page 23 of 39



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Report No.: BLA-EMC-201908-A10-01 Page 24 of 39

Troport Tro BET LINO ZO 1000	1 dig = 1 di d d
	 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 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, 8-DPSK modulation, and found the 8-DPSK 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.

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Report No. : BLA-EMC-201908-A10-01 Page 25 of 39

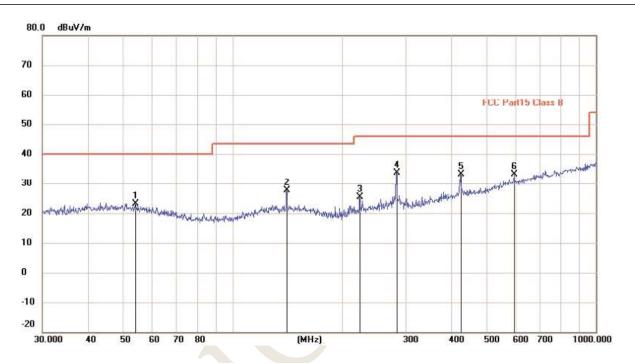
Below 1GHz

EUT: AM/FM/CD/MP3 Receiver Polarziation: Horizontal

Model: XDM290BT Power Source: AC120V/60Hz

Mode: BT mode Test by: Eason

Temp./Hum.(%H): 26 °C/60%RH



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		53.8818	9.59	13.57	23.16	40.00	-16.84	QP
2		140.8351	14.45	13.06	27.51	43.50	-15.99	QP
3		223.7334	13.74	11.55	25.29	46.00	-20.71	QP
4	*	281.9946	20.45	13.06	33.51	46.00	-12.49	QP
5		423.5403	16.03	17.06	33.09	46.00	-12.91	QP
6		595.1329	12.38	20.84	33.22	46.00	-12.78	QP

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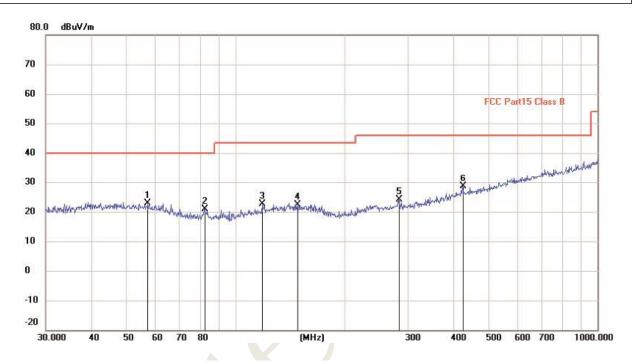
Report No.: BLA-EMC-201908-A10-01 Page 26 of 39

EUT: AM/FM/CD/MP3 Receiver Polarziation: Vertical

Model: XDM290BT Power Source: AC120V/60Hz

Mode: BT mode Test by: Eason

Temp./Hum.(%H): 26 °C/60%RH



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	57.3923	9.69	13.22	22.91	40.00	-17.09	QP
2		82.0706	11.77	9.10	20.87	40.00	-19.13	QP
3	-	118.6014	10.28	12.24	22.52	43.50	-20.98	QP
4	(148.4410	9.41	13.04	22.45	43.50	-21.05	QP
5	3	281.9946	11.07	13.06	24.13	46.00	-21.87	QP
6		423.5403	11.50	17.06	28.56	46.00	-17.44	QP

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Report No.: BLA-EMC-201908-A10-01

Above 1GHz

Test channel: Lowest

Page 27 of 39

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	54.07	-7.43	46.64	74.00	-27.36	Vertical
7206.00	56.03	-2.42	53.61	74.00	-20.39	Vertical
9608.00	58.14	-2.38	55.76	74.00	-18.24	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	53.23	-7.43	45.80	74.00	-28.20	Horizontal
7206.00	57.47	-2.42	55.05	74.00	-18.95	Horizontal
9608.00	58.69	-2.38	56.31	74.00	-17.69	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	43.12	-7.43	35.69	54.00	-18.31	Vertical
7206.00	45.13	-2.42	42.71	54.00	-11.29	Vertical
9608.00	44.78	-2.38	42.40	54.00	-11.60	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	45.36	-7.43	37.93	54.00	-16.07	Horizontal
7206.00	44.48	-2.42	42.06	54.00	-11.94	Horizontal
9608.00	45.11	-2.38	42.73	54.00	-11.27	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.

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Report No.: BLA-EMC-201908-A10-01 Page 28 of 39

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	53.00	-7.49	45.51	74.00	-28.49	Vertical
7323.00	56.78	-2.40	54.38	74.00	-19.62	Vertical
9764.00	58.31	-2.38	55.93	74.00	-18.07	Vertical
12205.00	*			74.00		Vertical
14646.00	*			74.00		Vertical
4882.00	51.23	-7.49	43.74	74.00	-30.26	Horizontal
7323.00	56.45	-2.40	54.05	74.00	-19.05	Horizontal
9764.00	57.87	-2.38	55.49	74.00	-18.51	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	44.43	-7.49	36.94	54.00	-17.06	Vertical
7323.00	45.69	-2.40	43.29	54.00	-10.71	Vertical
9764.00	45.17	-2.38	42.79	54.00	-11.21	Vertical
12205.00	*			54.00		Vertical
14646.00	*			54.00		Vertical
4882.00	45.03	-7.49	37.54	54.00	-16.46	Horizontal
7323.00	44.14	-2.40	41.74	54.00	-12.26	Horizontal
9764.00	44.89	-2.38	42.51	54.00	-11.49	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.

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Report No.: BLA-EMC-201908-A10-01 Page 29 of 39

Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	53.58	-7.47	46.11	74.00	-27.89	Vertical
7440.00	54.36	-2.45	51.91	74.00	-22.09	Vertical
9920.00	57.73	-2.37	55.36	74.00	-18.64	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	51.39	-7.47	43.92	74.00	-30.08	Horizontal
7440.00	56.48	-2.45	54.03	74.00	-19.37	Horizontal
9920.00	58.55	-2.37	56.18	74.00	-17.82	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			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
4960.00	45.36	-7.47	37.89	54.00	-16.11	Vertical
7440.00	44.71	-2.45	42.26	54.00	-11.74	Vertical
9920.00	44.48	-2.37	42.11	54.00	-11.89	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	44.36	-7.47	36.89	54.00	-17.11	Horizontal
7440.00	45.02	-2.45	42.57	54.00	-11.43	Horizontal
9920.00	45.33	-2.37	42.96	54.00	-11.04	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.

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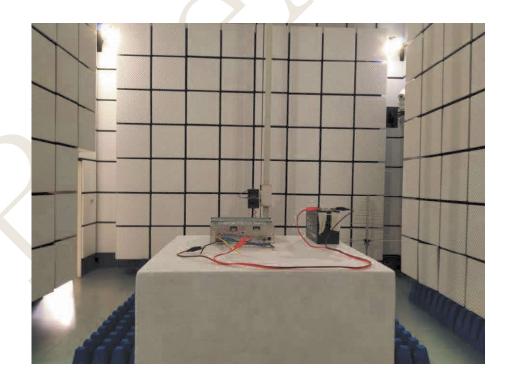


Report No.: BLA-EMC-201908-A10-01 Page 30 of 39

8 Test Setup Photo

Radiated Emission





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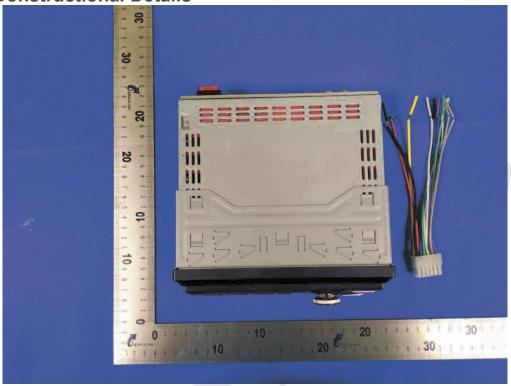
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Report No.: BLA-EMC-201908-A10-01 Page 31 of 39

9 EUT Constructional Details





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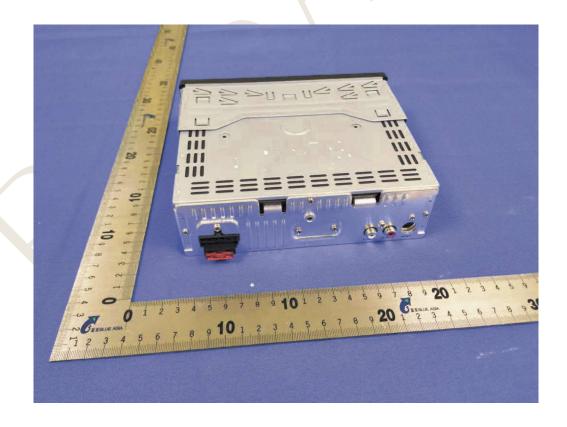
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Report No.: BLA-EMC-201908-A10-01 Page 32 of 39





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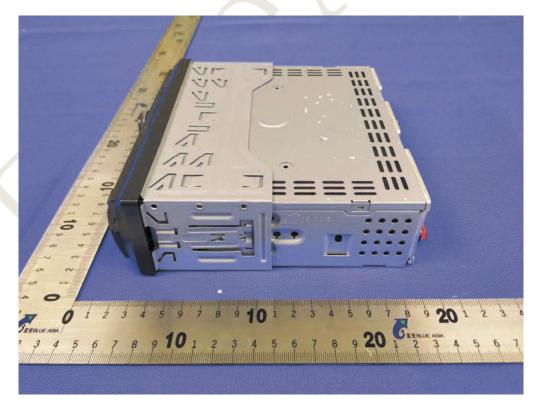
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Report No. : BLA-EMC-201908-A10-01 Page 33 of 39





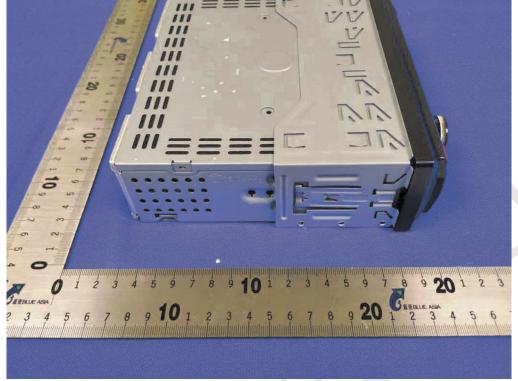
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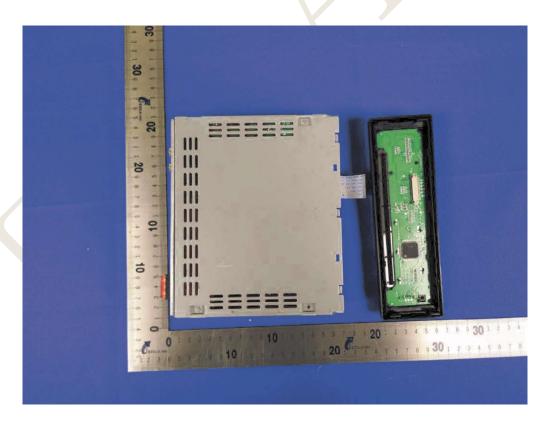
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Report No.: BLA-EMC-201908-A10-01 Page 34 of 39





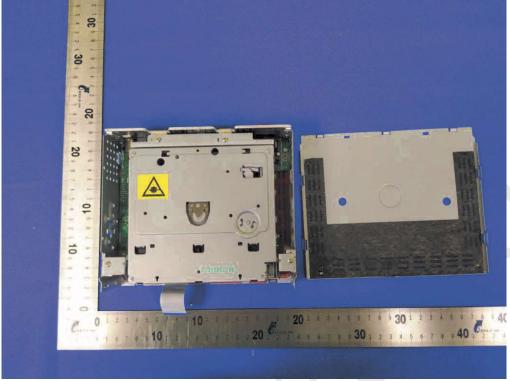
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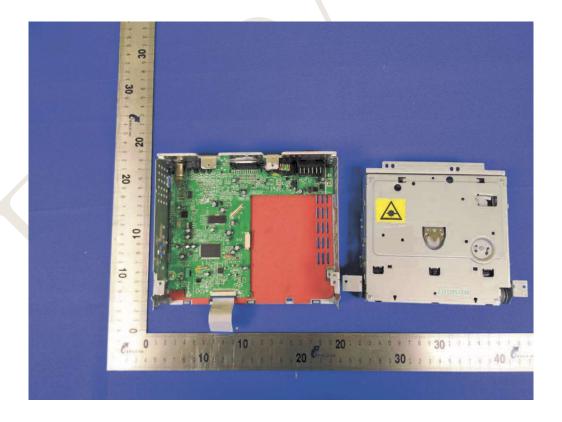
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Report No.: BLA-EMC-201908-A10-01 Page 35 of 39





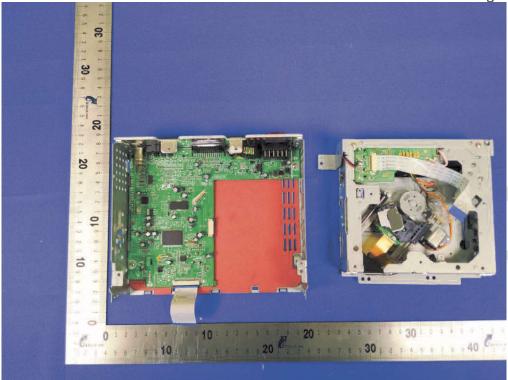
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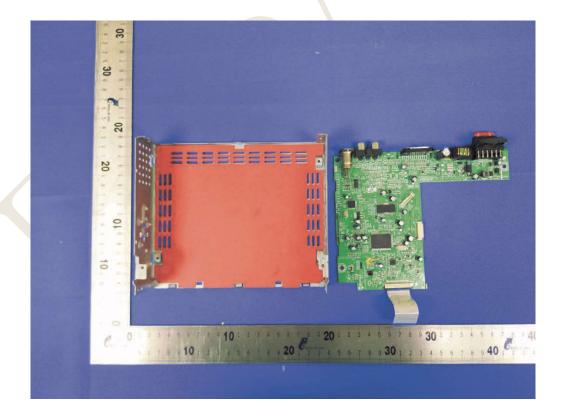
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Report No.: BLA-EMC-201908-A10-01 Page 36 of 39





 $\label{thm:condition} \mbox{Qianhai BlueAsia of Technical Services} (\mbox{Shenzhen}) \mbox{ Co., Ltd.}$

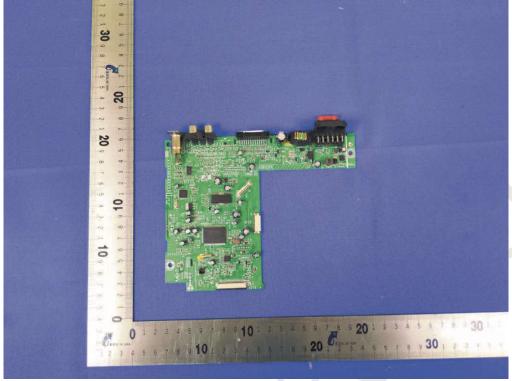
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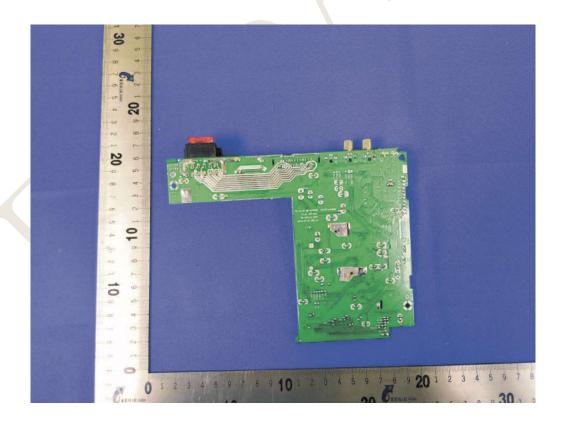
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Report No.: BLA-EMC-201908-A10-01

Page 37 of 39





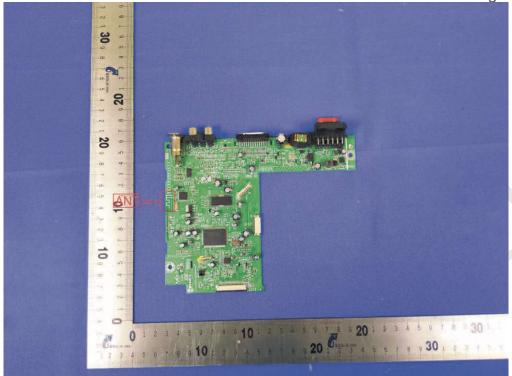
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Report No. : BLA-EMC-201908-A10-01 Page 38 of 39



 $\label{thm:condition} \mbox{Qianhai BlueAsia of Technical Services} \mbox{(Shenzhen) Co., Ltd.}$

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Report No.: BLA-EMC-201908-A10-01 Page 39 of 39

10 Appendix

Refer to the following attachments.

*** End of Report ***

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

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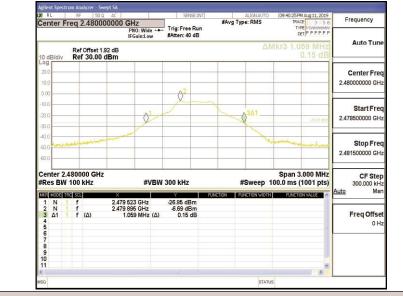
AppendixA: 20dBEmission Bandwidth

Test Result

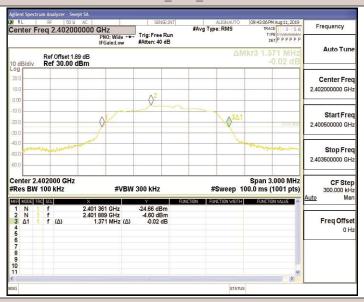
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	1.059	2401.523	2402.582		PASS
		2441	1.056	2440.526	2441.582		PASS
		2480	1.059	2479.523	2480.582		PASS
2DH1	Ant1	2402	1.371	2401.361	2402.732		PASS
		2441	1.371	2440.361	2441.732		PASS
		2480	1.374	2479.361	2480.735		PASS
3DH1	Ant1	2402	1.359	2401.367	2402.726		PASS
		2441	1.359	2440.367	2441.726		PASS
		2480	1.362	2479.367	2480.729		PASS

Test Graphs

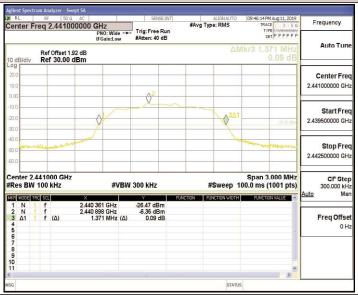


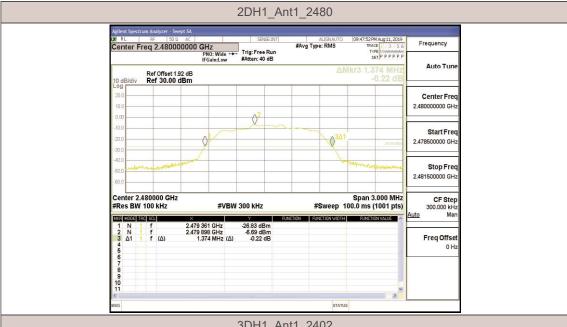


2DH1_Ant1_2402

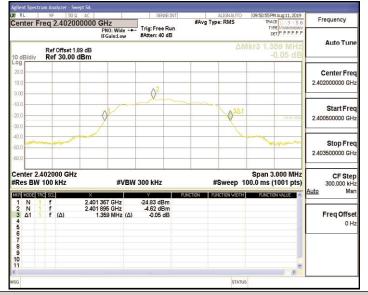


2DH1_Ant1_2441

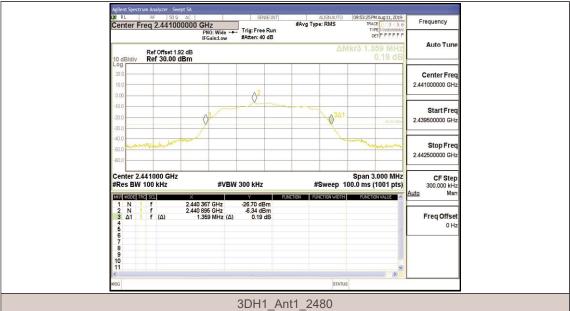


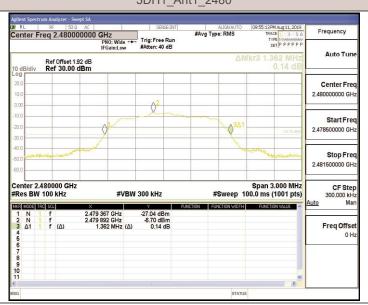


3DH1_Ant1_2402



3DH1_Ant1_2441





AppendixC: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	-4.11	<=21	PASS
		2441	-5.82	<=21	PASS
		2480	-6.1	<=21	PASS
	Ant1	2402	-1.94	<=21	PASS
2DH1		2441	-3.68	<=21	PASS
		2480	-4.16	<=21	PASS
		2402	-1.12	<=21	PASS
3DH1	Ant1	2441	-2.91	<=21	PASS
		2480	-3.3	<=21	PASS