

TAF

Testing Laboratory
1109

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FCC ID: 2AR5RRMX44BT **Report No**.: T200610N03-RP1-2

FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10: 2013

TEST REPORT

For

DJ MIXER

Model: RMX-44 BT

Brand: RELOOP

Issued for

Global Distribution GmbH & Co. KG

Schuckertstr. 28, 48153 Muenster, Germany

Issued by

Compliance Certification Services Inc.

Tainan Lab.

No.8, Jiucengling, Xinhua Dist.,

Tainan City, Taiwan

Issued Date: August 18, 2020

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REVISION HISTORY

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 07, 2020	Initial Issue	ALL	Polly Wang
01	August 18, 2020	See the following note rev.01	P.4	Polly Wang

Note:

Rev.01 Issue Date: August 18, 2020

Update manufacturer.



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1. TEST REPORT CERTIFICATION

Applicant : Global Distribution GmbH & Co. KG

Schuckertstr. 28, 48153 Muenster, Germany

Manufacturer : Global Distribution GmbH & Co. KG

Schuckertstr. 28, 48153 Muenster, Germany

Equipment Under Test : DJ MIXER

Model Number : RMX-44 BT

Brand Name : RELOOP

Date of Test : June 29, 2020 ~ July 06, 2020

APPLICABLE STANDARD			
STANDARD	TEST RESULT		
FCC Part 15 Subpart C AND ANSI C63.10: 2013	No non-compliance noted		

Statements of Conformity

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Approved by:

Eric HuangSection Manager



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2. TEST RESULT SUMMARY

FCC Standard Section	Report Section	Test Item	Result
15.247(a)	9.1	6dB BANDWIDTH	Pass
15.247(b)	9.2	MAXIMUM PEAK OUTPUT POWER	Pass
-	9.3	DUTY CYCLE	-
15.247(e)	9.4	POWER SPECTRAL DENSITY	Pass
15.247(d)	9.5	CONDUCTED SPURIOUS EMISSION	Pass
15.205(a)	9.6	RADIATED EMISSIONS	Pass
15.207(a)	9.7	POWERLINE CONDUCTED EMISSIONS	Pass
15.203	10	ANTENNA REQUIREMENT	Pass



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3. EUT DESCRIPTION

3.1 DESCRIPTION OF EUT & POWER

Product Name	DJ MIXER	
Model Number	RMX-44 BT	
Brand Name	RELOOP	
Received Date	June 10, 2020	
Reported Date	July 13, 2020	
Operating Frequency Range	GFSK(4.0) Mode: 2402MHz~2480MHz	
Transmit Power	GFSK(4.0) Mode: 3.88dBm (2.45mW)	
Channel Spacing	GFSK(4.0) Mode: 2 MHz	
Channel Number	GFSK(4.0) Mode: 79 Channels	
Transmit Data Rate	GFSK(4.0) Mode: 3 Mbps	
Type of Modulation	GFSK、π/4DQPSK、8DPSK	
Antenna Type	Manufacturer: Sunitec Type: PCB Antenna Model: BM20A Gain: 1.78 dBi	
Power Source	AC 100-240V, 0.8A, 50/60Hz	
Firmware Version	V1.0	
Hardware Version	V1.0	
Software Version	V1.0	

Power Adapter:

No.	Manufacturer	Model No.	Power Input	Power Output
1	Hon-Kwang Electric Co., Ltd.	HK-CW-120A200-CP	AC 100-240V, 50/60Hz, 0.8A	DC 12.0V, 2.0A, 24.0W

REMARK: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

- 2. This submittal(s) (test report) is intended for FCC ID: <u>2AR5RRMX44BT</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.
- 3. For more details, please refer to the user manual.



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4. DESCRIPTION OF TEST MODES

The EUT is a DJ MIXER.

The RF Chip is manufactured by CSR

The antenna peak gain 1.78 dBi (highest gain) were chosen for full testing.

GFSK(4.0) mode

The EUT had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)	
Low	2402	
Middle	2442	
High	2480	

GFSK(4.0) mode: 1Mbps long data rates (worst case) were chosen for full testing.



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5. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 and FCC CFR 47 15.207, 15.209 and 15.247 and KdB 558074.

6. FACILITIES AND ACCREDITATIONS

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.7:1992, ANSI C63.10: 2013 and CISPR Publication 22.

6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by TAF or any agency of the Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: TW1109).



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6.4 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada Industry Canada (ISED#: 2324H)

Germany TUV NORD

Taiwan BSMI

USA FCC

Japan VCCI

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com



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6.5 MEASUREMENT EQUIPMENT USED

For §9.7

Chamber 966 Room (Radiation Test)						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Active Loop Antenna	ETS-LINDREN	6502	8905-2356	08/02/2019	08/01/2021	
Bi-Log Antenna With 6dB Att	Sunol & MCL	JB1 & BW-N6W5	A070506-2 & 0505	08/26/2019	08/25/2020	
Cable	Suhner	SUCOFLEX104P EA	20520/4PEA&O6	01/30/2020	01/29/2021	
Double Ridged Guide Horn Antenna	ETS-LINDGREN	3116	00078900	03/26/2020	03/25/2021	
EMI Test Receiver	R&S	ESCI	100960	02/11/2020	02/10/2021	
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/18/2019	07/17/2020	
Horn Antenna	Com-Power	AH-118	071032	04/29/2020	04/28/2021	
Pre-Amplifier	EMCI	EMC012645	980098	01/30/2020	01/29/2021	
Pre-Amplifier	HP	8447F	2443A01683	01/22/2020	01/21/2021	
Pre-Amplifier	Com-Power	PAM-840A	461378	03/23/2020	03/22/2021	
Type N coxical cable	Suhner	CHA9513	6	01/21/2020	01/20/2021	
Notch Filter	MICRO-TRONICS	BRM50702-01	018	N.C.R	N.C.R	

For §9.1~9.6

101 30.1 3.0								
	Chamber 966 Room (Conducted Test)							
Name of Equipment Manufacturer Model Serial Number Calibration Date Calibration D								
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/18/2019	07/17/2020			
Power Meter	Anritsu	ML2487A	6K00003888	11/20/2019	05/19/2021			
Power Sensor	Anritsu	MA2491A	033265	11/20/2019	05/19/2021			
SMA Cable + 10dB Attenuator	ccs	SMA+10dB ATT	SMA/10dB	01/30/2020	01/29/2021			

For §9.8

101 93.0							
Conducted Emission room #1							
Name of Equipment Manufacturer Model Serial Number Calibration Date Calibrat							
BNC Coaxial Cable	CCS	BNC50	11	01/22/2020	01/21/2021		
EMI Test Receiver	R&S	ESCS 30	100348	02/20/2020	02/19/2021		
LISN	SCHWARZBECK	NNLK8130	8130124	01/17/2020	01/16/2021		
LISN	R&S	ESH3-Z5	840062/021	07/11/2019	07/10/2020		
Pulse Limiter	R&S	ESH3-Z2	100116	01/22/2020	01/21/2021		
Test S/W	e3(6.101222)				_		



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7. CALIBRATION AND UNCERTAINTY

7.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

7.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz Test Site : CB966	±3.1dB
Radiated Emission, 200 to 1000 MHz Test Site : CB966	±2.7dB
Radiated Emission, 1 to 6 GHz	± 2.7dB
Radiated Emission, 6 to 18 GHz	± 2.7dB
Radiated Emission, 18 to 26.5 GHz	± 2.7dB
Radiated Emission, 26 to 40 GHz	± 3.7dB
Power Line Conducted Emission	± 2.0dB

This measurement uncertainty is confidence of approximately 95%, k=2

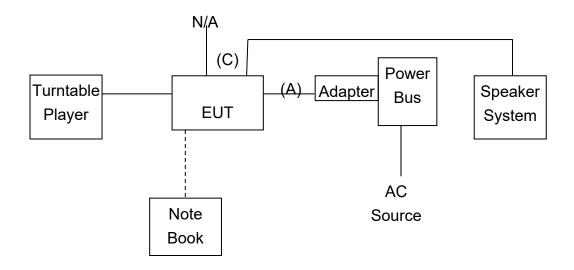


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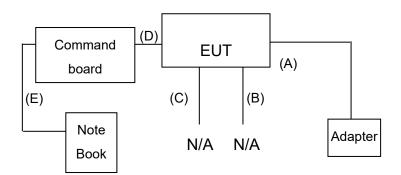
8. SETUP OF EQUIPMENT UNDER TEST

8.1 SETUP CONFIGURATION OF EUT

EMI



RF





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8.2 SUPPORT EQUIPMENT

For EMI test

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	Turntable Player	HANPIN	DP-300F	DOC	Power cable, shd, 1.6m
2	Speaker System	T.C.SATR	TCS2285	DOC	Audio cable, unshd, 1.4m
3	Note Book	TOSHIBA	PORTEGE R30-A	DOC	Power cable, unshd, 1.8m

No.	Signal cable description		
Α	DC Power	Unshielded, 1.5m 1 pcs.	
В	Audio	Shielded, 0.8m 1 pcs.	
С	Audio	Shielded, 1.0m 13 pcs.	

For RF test

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	Note Book	Acer	AS 3830TG	DoC	Power cable, unshd, 1.6m

No.	Signal cable description		
Α	Power	Unshielded, 1.5m 1 pcs.	
В	MIC	Unshielded, 0.8m 2 pcs.	
С	Audio	Unshielded, 1.0m 13 pcs.	
D	Command	Unshielded, 0.3m 1 pcs.	
Е	USB	Shielded, 1.7m 1 pcs with 1 core.	

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3) shd. = shielded; unshd. = unshielded



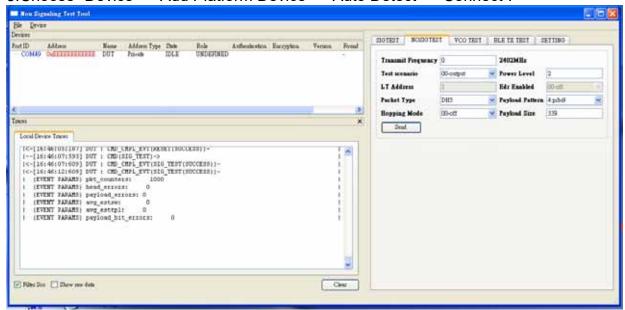
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8.3 EUT OPERATING CONDITION

RF Setup

- 1. Set up all computers like the setup diagram.
- 2. The "BQB" software was used for testing.
- 3. Choose "Device"→"Add Platform Device"→"Auto Detect"→"Connect".



TX Mode:

BT1.0

NOSIG TEST

Transmit Frequency:0 (0,39,78)

Packet Type: DH5 (DH1, DH3, DH5)

Send

BT3.0

NOSIG TEST

Transmit Frequency:0 (0,39,78)

Packet Type:DH5_3 (DH1-3,DH3_3,DH5_3)

Send

BT4.0

BLE TX TEST

Transmit Frequency:0 (0,20,39)

Send

RX Mode:

BLE TX TEST

Receiver Frequency:0 (0,20,39)

- 4. All of the function are under run.
- 5. Start test.



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9. APPLICABLE LIMITS AND TEST RESULTS

9.1 6dB BANDWIDTH

LIMIT

§ 15.207(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

TEST SETUP



TEST PROCEDURE

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



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TEST RESULTS

No non-compliance noted.

Model Name	RMX-44 BT	Test By Ted H	
Temp & Humidity	26.6°C, 55%	Test Date	2020/07/02

GFSK(4.0) mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass / Fail
Low	2402	724	500	PASS
Middle	2442	722	500	PASS
High	2480	729	500	PASS

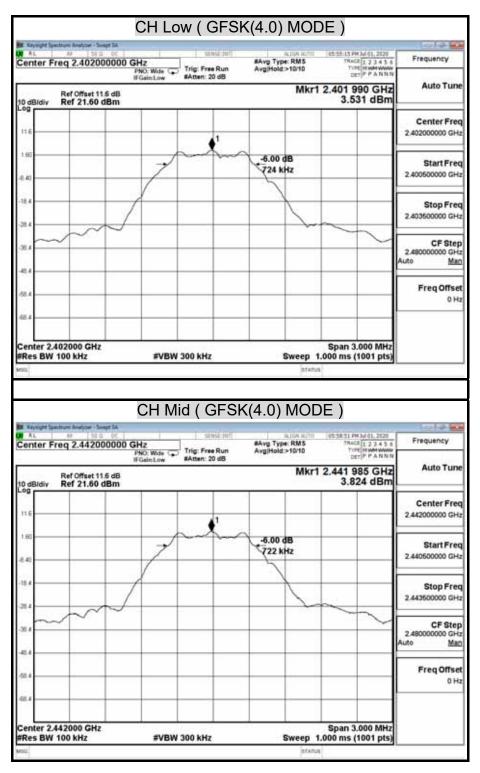
NOTE:

- 1. At finial test to get the worst-case emission at1Mbps long.
- 2. The cable assembly insertion loss of 11.1dB (including 10 dB pad and 1.1 dB cable) was entered as an offset in the spectrum analyzer to allow for direct reading of power.



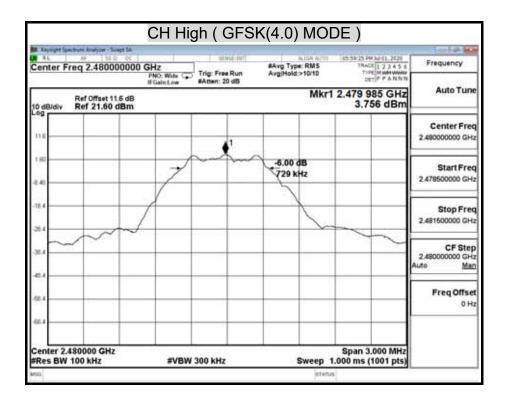
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6dB BANDWIDTH (GFSK(4.0) MODE)





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9.2 MAXIMUM PEAK OUTPUT POWER

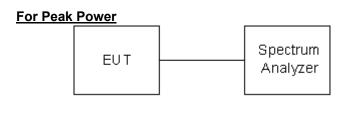
LIMIT

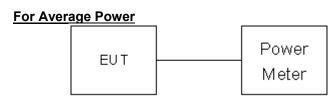
§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP







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TEST PROCEDURE

The tests were performed in accordance with KdB 558074 9.1.1

9.2.1 Measurement Procedure PK2:

- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW ≥ 3 RBW.
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Average Power

Connect the EUT to power meter, set the center frequency of the power meter to the channel center frequency.



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TEST RESULTS

No non-compliance noted.

Model Name	RMX-44 BT	Test By	Ted Huang
Temp & Humidity	26.6°C, 55%	Test Date	2020/07/02

GFSK(4.0) mode

Channel	Channel Frequency (MHz)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	2402	3.63	30.00	PASS
Middle	2442	3.88	30.00	PASS
High	2480	3.80	30.00	PASS

NOTE: 1. At finial test to get the worst-case emission at 1Mbps long.

2. The cable assembly insertion loss of 11.1dB (including 10 dB pad and 1.1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.



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Average Power Data

Model Name	RMX-44 BT	RMX-44 BT Test By	
Temp & Humidity	26.6°C, 55%	Test Date	2020/07/02

GFSK(4.0) mode

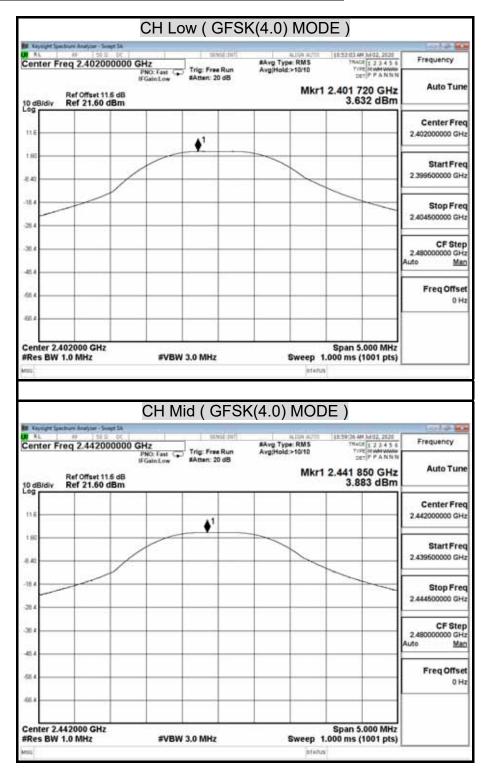
Channel	Channel Frequency (MHz)	Average Power (dBm)
Low	2402	3.33
Middle	2442	3.60
High	2480	3.55



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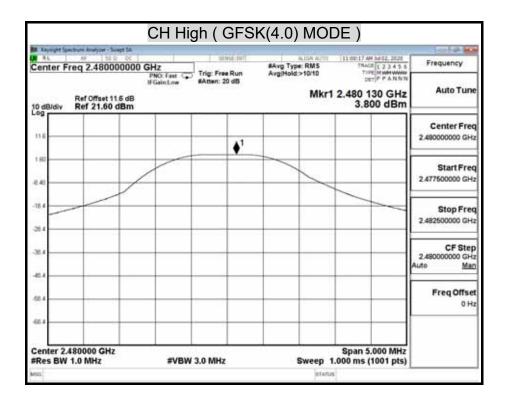
MAXIMUM PEAK OUTPUT POWER (GFSK(4.0) MODE)





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9.3 DUTY CYCLE

LIMIT

Nil (No dedicated limit specified in the Rules)

EUT Spectrum Analyzer

TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)



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TEST RESULTS

No non-compliance noted.

Model Name RMX-44 BT		Test By	Ted Huang
Temp & Humidity	26.6°C, 55%	Test Date	2020/07/02

GFSK(4.0) Mode

	us	Times	Ton	Total Ton time(ms)
Ton1	420	1	420	
Ton2		0	0	
Ton3			0	0.42
Тр				1.875

Ton	0.42
Tp(Ton+Toff)	1.875
Duty Cycle	0.224
Duty Factor	6.498

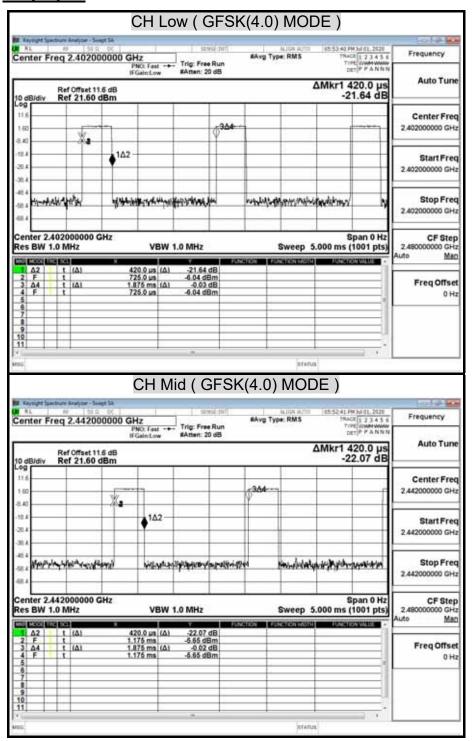


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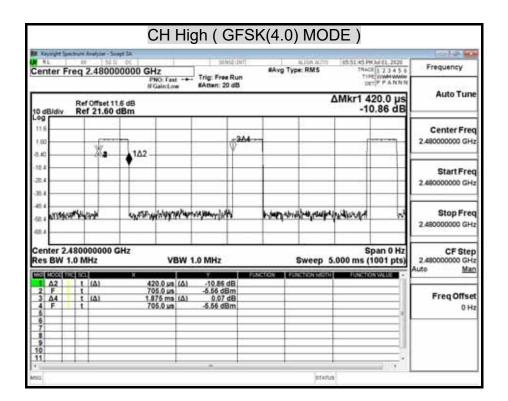
TEST PLOT

Duty Cycle





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9.4 POWER SPECTRAL DENSITY

LIMIT

§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST SETUP



TEST PROCEDURE

The tests were performed in accordance with 558074 D01 15.247 Meas Guidance v05

10.2 Method PKPSD (peak PSD):

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



TEST RESULTS

No non-compliance noted.

Model Name	RMX-44 BT	Test By	Ted Huang
Temp & Humidity	26.6°C, 55%	Test Date	2020/07/02

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GFSK(4.0) mode

Channel	Frequency (MHz)	PPSD/3kHz (dBm)	Limit (dBm)	Margin (dB)	Result
Low	2402	-10.28	8.00	-18.28	PASS
Middle	2442	-10.04	8.00	-18.04	PASS
High	2480	-9.98	8.00	-17.98	PASS

NOTE: 1. At finial test to get the worst-case emission at 1Mbps long.

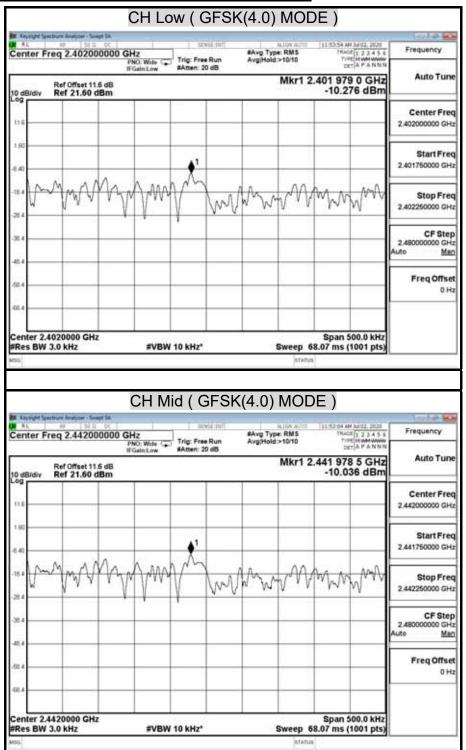
2. The cable assembly insertion loss of 11.1dB (including 10 dB pad and 1.1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.



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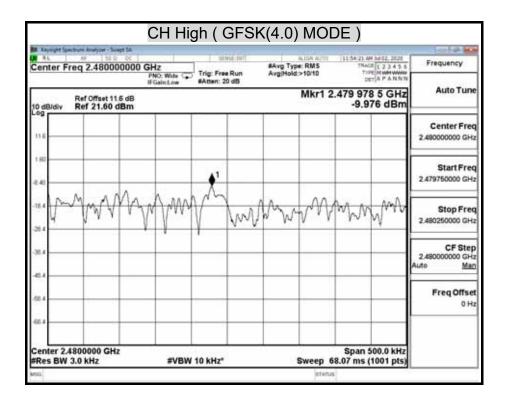
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POWER SPECTRAL DENSITY (GFSK(4.0) MODE)





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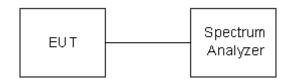
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9.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) 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 and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 1 MHz. The video bandwidth is set to 1 MHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

TEST RESULTS

No non-compliance noted.



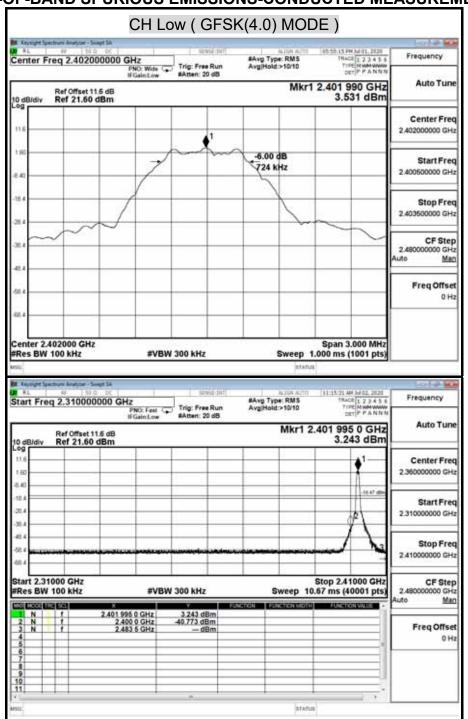
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TEST DATA

Model Name	RMX-44 BT	Test By	Ted Huang
Temp & Humidity	26.6°C, 55%	Test Date	2020/07/02

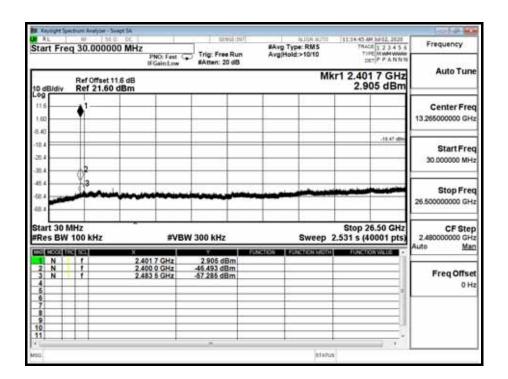
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT





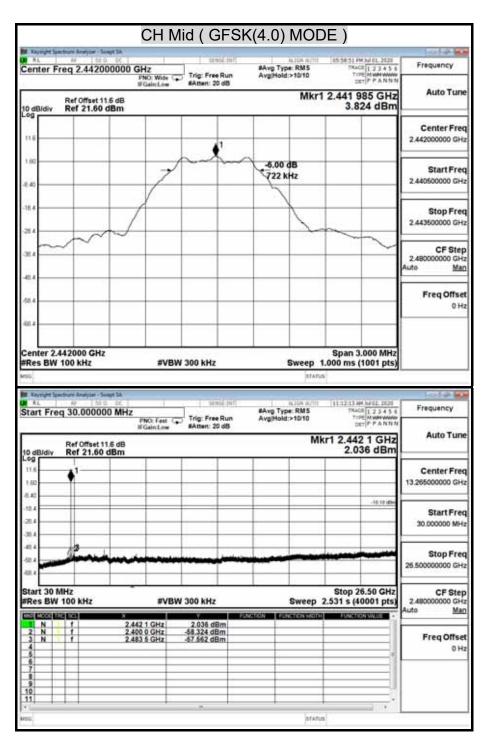
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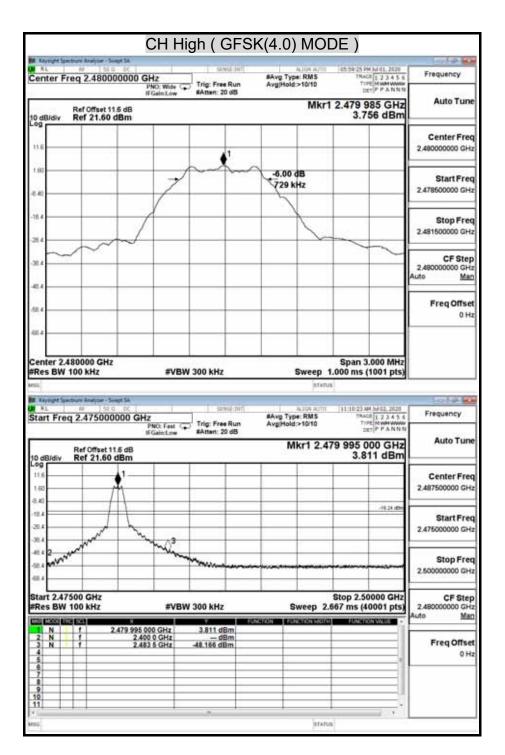


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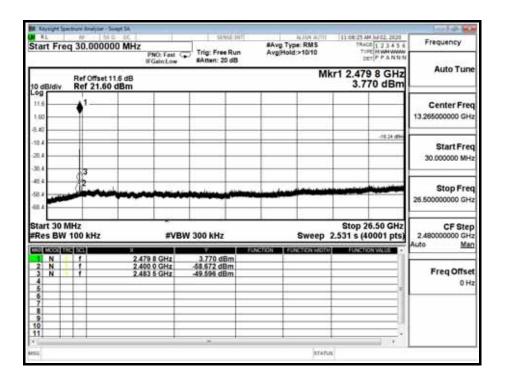


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9.6 RADIATED EMISSIONS

9.6.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	(2)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6



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§ 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this Part, e-g, Sections 15.231 and 15.241.

§ 15.209 (b) In the emission table above, the tighter limit applies at the band edges.



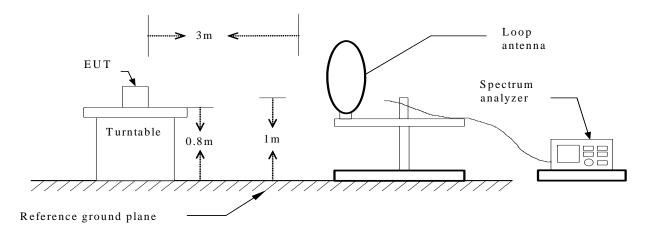
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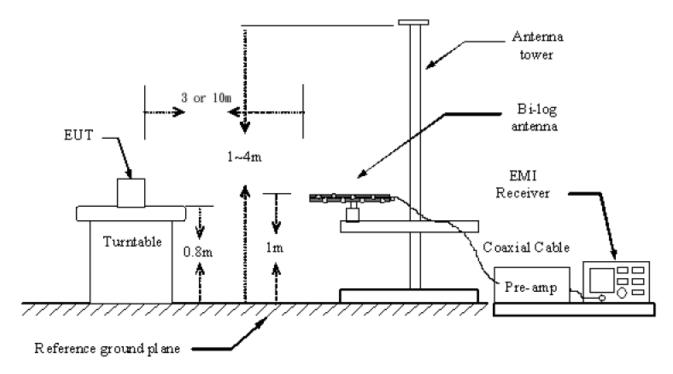
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

9kHz ~ 30MHz



30MHz ~ 1GHz

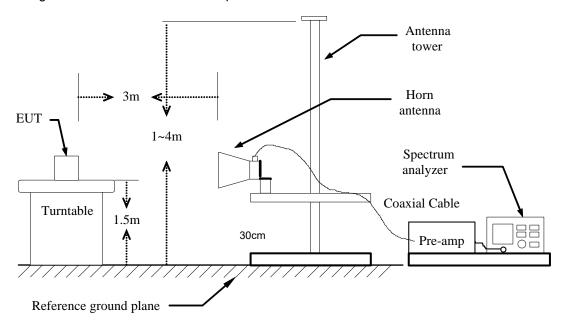




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The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. White measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. White measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its 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 polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The tests were performed in accordance with 558074 D01 15.247 Meas Guidance v05



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NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.
- 4. No emission is found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)

TEST RESULTS

No non-compliance noted.

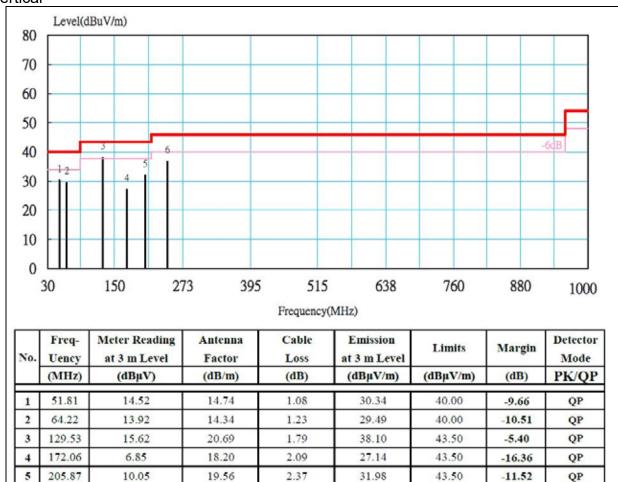


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9.6.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

Product Name	DJ MIXER	Test Date	2020/07/06
Model Name	RMX-44 BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	26.3°C, 52%

Vertical



Remark:

6

245.81

15.42

- 1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
- 2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.

2.64

36.66

46.00

-9.34

QP

4. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

18.60

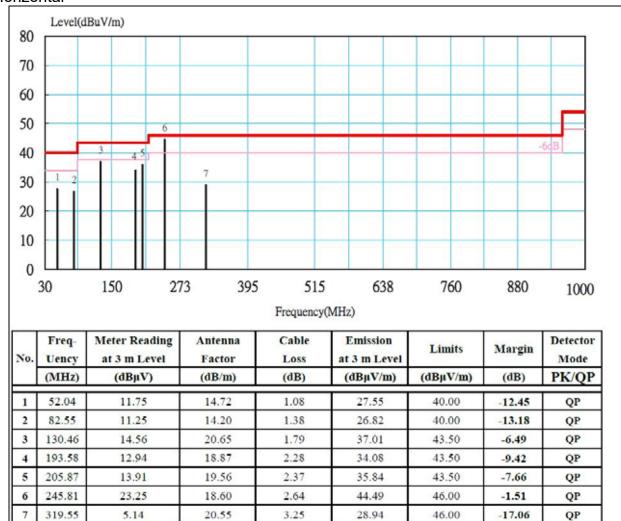


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Product Name	DJ MIXER	Test Date	2020/07/06
Model Name	RMX-44 BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	26.3°C, 52%

Horizontal



Remark:

- 1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
- 2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 4. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).



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Report No.: T200610N03-RP1-2 9.6.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

Product Name	DJ MIXER	Test Date	2020/07/02
Model	RMX-44 BT	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Low)	TEMP& Humidity	26.6°C, 55%

Horizontal

	TX / GFSK(4.0) mode / CH Low				Measurement Distance at 3m Horizontal polarity					polarity
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
*	1115.84	60.23	24.89	2.10	46.38	0.41	41.25	74.00	-32.75	Р
*	1115.84	48.58	24.89	2.10	46.38	0.41	29.60	54.00	-24.40	Α
*	4803.63	58.57	33.23	4.30	44.77	0.22	51.55	74.00	-22.45	Р
*	4803.63	50.37	33.23	4.30	44.77	0.22	43.36	54.00	-10.64	Α
	7205.19	58.66	38.68	5.39	44.06	0.27	58.93	74.00	-15.07	Р
	7205.19	51.38	38.68	5.39	44.06	0.27	51.65	63.18	-11.52	Α
	9607.92	54.31	38.44	6.31	42.31	0.31	57.07	74.00	-16.93	Р
	9607.92	45.64	38.44	6.31	42.31	0.31	48.40	63.18	-14.78	Α

Product Name	DJ MIXER	Test Date	2020/07/02
Model	RMX-44 BT	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Low)	TEMP& Humidity	26.6°C, 55%

Vertical

	TX / 0	GFSK(4.0)	mode / 0	CH Low	Mea	Measurement Distance at 3m Vertical polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark	
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)	
*	1113.25	61.52	24.88	2.10	46.38	0.41	42.53	74.00	-31.47	Р	
*	1113.25	48.79	24.88	2.10	46.38	0.41	29.80	54.00	-24.20	Α	
*	4803.42	57.78	33.23	4.30	44.77	0.22	50.77	74.00	-23.23	Р	
*	4803.42	49.33	33.23	4.30	44.77	0.22	42.31	54.00	-11.69	Α	
	7205.18	62.62	38.68	5.39	44.06	0.27	62.89	74.00	-11.11	Р	
	7205.18	57.71	38.68	5.39	44.06	0.27	57.98	68.41	-10.43	Α	
	9607.88	54.89	38.44	6.31	42.31	0.31	57.65	74.00	-16.35	Р	
	9607.88	46.76	38.44	6.31	42.31	0.31	49.53	68.41	-18.89	Α	

REMARK:

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- The result basic equation calculation is as follow:
 Level = Reading + AF + Cable Preamp + Filter Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.
- 6. *=Restricted bands of operation



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Product Name	DJ MIXER	Test Date	2020/07/02
Model	RMX-44 BT	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Middle)	TEMP& Humidity	26.6°C, 55%

Horizontal

	TX / G	node / Cł	H Middle	Meas	urement	t Distance	at 3m H	orizontal	polarity	
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
*	1115.68	60.45	24.89	2.10	46.38	0.41	41.48	74.00	-32.52	Р
*	1115.68	48.75	24.89	2.10	46.38	0.41	29.78	54.00	-24.22	Α
*	4883.45	57.01	33.50	4.35	44.78	0.23	50.31	74.00	-23.69	Р
*	4883.45	47.83	33.50	4.35	44.78	0.23	41.13	54.00	-12.87	Α
*	7325.23	55.17	39.14	5.44	43.94	0.27	56.08	74.00	-17.92	Р
*	7325.23	44.61	39.14	5.44	43.94	0.27	45.52	54.00	-8.48	Α
	9767.86	54.07	38.51	6.36	42.30	0.28	56.92	74.00	-17.08	Р
	9767.86	45.92	38.51	6.36	42.30	0.28	48.77	54.00	-5.23	Α

Product Name	DJ MIXER	Test Date	2020/07/02
Model	RMX-44 BT	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Middle)	TEMP& Humidity	26.6°C, 55%

Vertical

	TX / G	FSK(4.0) r	node / Cl	H Middle	Measurement Distance at 3m Vertical polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
*	1113.62	61.42	24.88	2.10	46.38	0.41	42.43	74.00	-31.57	Р
*	1113.62	48.68	24.88	2.10	46.38	0.41	29.69	54.00	-24.31	Α
*	4883.40	58.04	33.50	4.35	44.78	0.23	51.35	74.00	-22.65	Р
*	4883.40	49.28	33.50	4.35	44.78	0.23	42.58	54.00	-11.42	Α
*	7325.44	56.69	39.14	5.44	43.94	0.27	57.60	74.00	-16.40	Р
*	7325.44	47.62	39.14	5.44	43.94	0.27	48.53	54.00	-5.47	Α
	9767.75	53.91	38.51	6.36	42.30	0.28	56.75	74.00	-17.25	Р
	9767.75	45.33	38.51	6.36	42.30	0.28	48.18	54.00	-5.82	Α

REMARK:

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable – Preamp + Filter – Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.
- 6. *=Restricted bands of operation



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Product Name	DJ MIXER	Test Date	2020/07/02
Model	RMX-44 BT	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH High)	TEMP& Humidity	26.6°C, 55%

Horizontal

	TX / GFSK(4.0) mode / CH High				Measurement Distance at 3m			Horizontal polarity		
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
*	1114.96	59.85	24.88	2.10	46.38	0.41	40.87	74.00	-33.13	Р
*	1114.96	48.13	24.88	2.10	46.38	0.41	29.15	54.00	-24.85	Α
*	4959.72	57.45	33.76	4.39	44.78	0.24	51.06	74.00	-22.94	Р
*	4959.72	48.16	33.76	4.39	44.78	0.24	41.77	54.00	-12.23	Α
*	7439.88	55.29	39.57	5.48	43.81	0.27	56.80	74.00	-17.20	Р
*	7439.88	44.99	39.57	5.48	43.81	0.27	46.50	54.00	-7.50	Α
	9919.98	54.08	38.57	6.41	42.29	0.25	57.01	74.00	-16.99	Р
	9919.98	44.68	38.57	6.41	42.29	0.25	47.62	54.00	-6.38	Α

Product Name	DJ MIXER	Test Date	2020/07/02
Model	RMX-44 BT	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH High)	TEMP& Humidity	26.6°C, 55%

Vertical

	TX / GFSK(4.0) mode / CH High				Measurement Distance at 3m Vertical polarity				polarity	
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
*	1113.68	61.68	24.88	2.10	46.38	0.41	42.69	74.00	-31.31	Р
*	1113.68	48.98	24.88	2.10	46.38	0.41	29.99	54.00	-24.01	Α
*	4959.66	58.78	33.76	4.39	44.78	0.24	52.39	74.00	-21.61	Р
*	4959.66	51.61	33.76	4.39	44.78	0.24	45.22	54.00	-8.78	Α
*	7439.72	54.22	39.57	5.48	43.81	0.27	55.73	74.00	-18.27	Р
*	7439.72	44.89	39.57	5.48	43.81	0.27	46.40	54.00	-7.60	Α
	9919.85	53.66	38.57	6.41	42.29	0.25	56.59	74.00	-17.41	Р
	9919.85	44.63	38.57	6.41	42.29	0.25	47.56	54.00	-6.44	Α

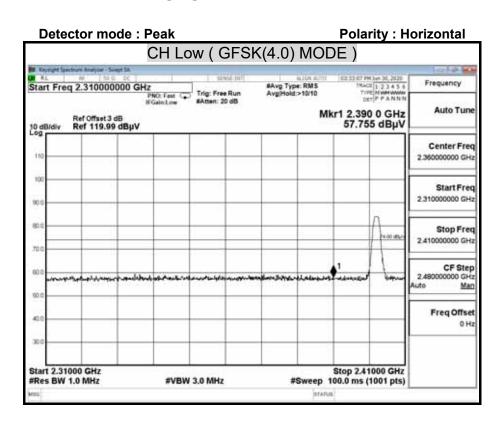
REMARK:

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: 2.4GHz~2.5GHz Filter Insertion Loss
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- The result basic equation calculation is as follow:
 Level = Reading + AF + Cable Preamp + Filter Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.
- 6. *=Restricted bands of operation



9.6.4 RESTRICTED BAND EDGES

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Detector mode : Average Polarity: Horizontal CH Low (GFSK(4.0) MODE) Start Freq 2.310000000 GHz
PNO: Feet (a)
IFGaint.ow

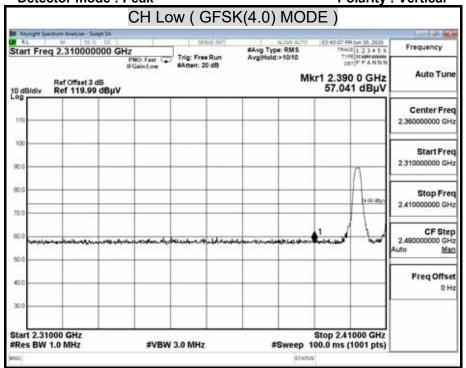
#Attent: 20 dB 52:35:11 PH Jun 30, 2020 TRACE 1:2:3:4:5:6 TYPE N MAN WANN DET P P A N N N #Avg Type: RMS Avg/Hold:>10/10 Frequency Mkr1 2.390 0 GHz 48.474 dBµV Auto Tune Ref Offset 3 dB Ref 119.99 dBµV 10 dBidiv 2.360000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.410000000 GHz CF Step 00000 GHz 2.480000000 GH Mag Freq Offset 0 Hz Start 2.31000 GHz Stop 2.41000 GHz **#VBW 2.7 kHz** Sweep 28.93 ms (1001 pts) #Res BW 1.0 MHz



Start 2.31000 GHz #Res BW 1.0 MHz

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Detector mode : Peak Polarity : Vertical



Polarity: Vertical Detector mode: Average CH Low (GFSK(4.0) MODE) Start Freq 2.310000000 GHz

PNO. Feet Free Run

FRGint.ow

FACTOR

FREE RUN

FREE RUN #Avg Type: RMS Avg|Hold:>10/10 Frequency Mkr1 2.390 0 GHz 48.438 dBµV Ref Offset 3 dB Ref 119.99 dBµV 10 dBidiy Center Freq 2.360000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.410000000 GHz CF Step 2.480000000 GHz Mag Freq Offset 0 Hz

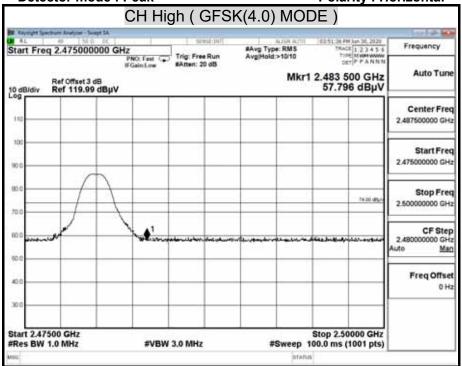
> Stop 2.41000 GHz Sweep 28.93 ms (1001 pts)

#VBW 2.7 kHz

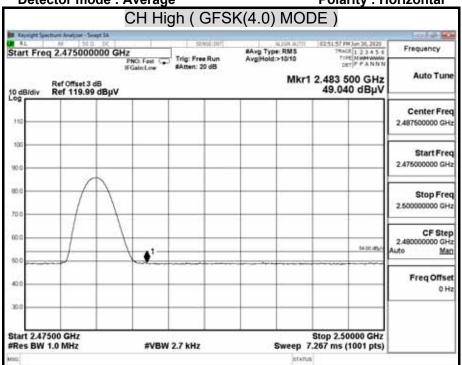


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> **Polarity: Horizontal Detector mode: Peak**



Detector mode: Average Polarity: Horizontal

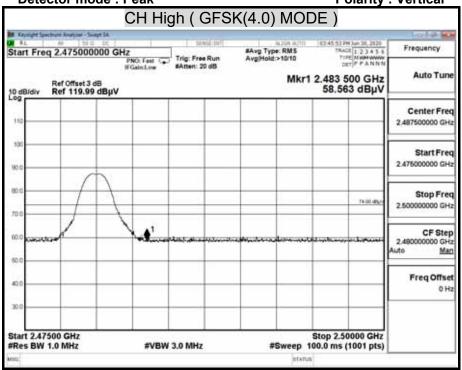




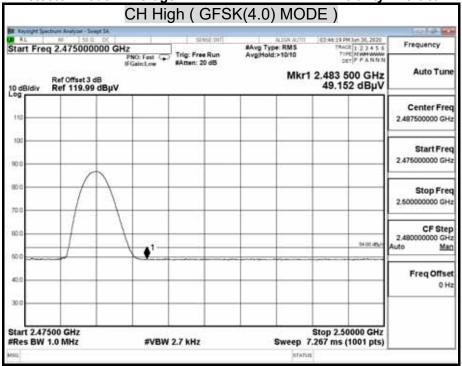
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Detector mode : Peak Polarity : Vertical



Detector mode : Average Polarity : Vertical





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9.7 POWERLINE CONDUCTED EMISSIONS

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

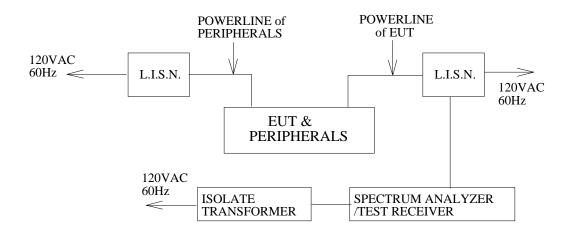
The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted limit (dΒμν)		
	Quasi-peak	Average	
0.15 - 0.5	66 to 56	56 to 46	
0.5 - 5	56	46	
5 - 30	60	50	



TEST SETUP

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TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.10.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.



TEST RESULTS

No non-compliance noted.

Model No.	RMX-44 BT	Test Mode	Normal Operation
Environmental Conditions	125 0 /N% RH	Resolution Bandwidth	9 kHz
Tested by	Leo Wang		

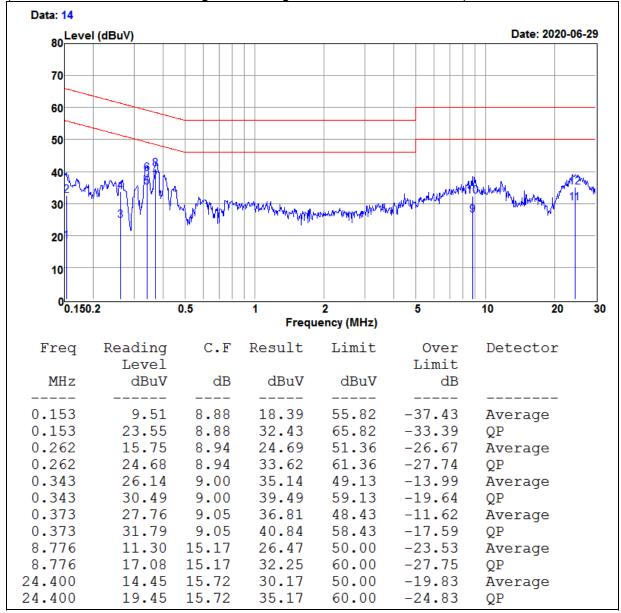
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LINE

(The chart below shows the highest readings taken from the final data.)



REMARKS: 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)

2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)

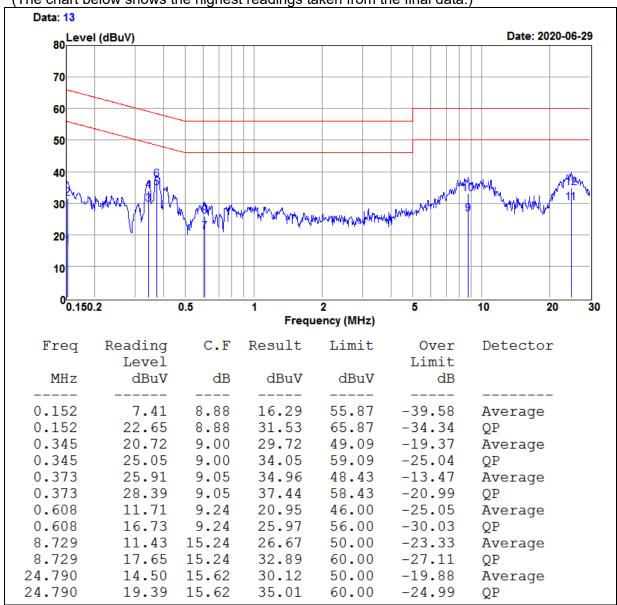


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Model No.	RMX-44 BT	Test Mode	Normal Operation
Environmental Conditions	125 0 70% RH	Resolution Bandwidth	9 kHz
Tested by	Leo Wang		

NEUTRAL

(The chart below shows the highest readings taken from the final data.)



REMARKS: 1. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB)

2. Over Limit (dBuV) = Measured Level (dBuV) – Limits (dBuV)



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10. ANTENNA REQUIREMENT

10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

Manufacturer: Sunitec Type: PCB Antenna

Model: BM20A Gain: 1.78 dBi

=== END of Report ===