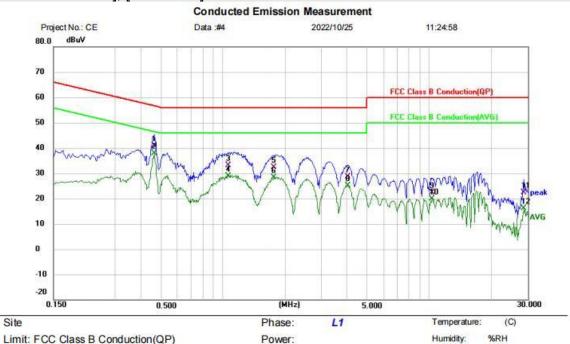


[TestMode: TX mode]; [Line: Line]



Limit: FCC Class B Conduction(QP) EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

Mode: TX mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4620	30.87	10.08	40.95	56.66	-15.71	QP	
2	*	0.4620	27.89	10.08	37.97	46.66	-8.69	AVG	
3		1.0580	23.02	10.12	33.14	56.00	-22.86	QP	
4		1.0580	18.67	10.12	28.79	46.00	-17.21	AVG	
5		1.7700	22.14	10.26	32.40	56.00	-23.60	QP	
6		1.7700	18.16	10.26	28.42	46.00	-17.58	AVG	
7		4.0220	18.45	10.10	28.55	56.00	-27.45	QP	
8		4.0220	15.08	10.10	25.18	46.00	-20.82	AVG	
9		10.3020	12.33	10.14	22.47	60.00	-37.53	QP	
10		10.3020	9.68	10.14	19.82	50.00	-30.18	AVG	
11		28.6860	12.21	10.05	22.26	60.00	-37.74	QP	
12		28.6860	6.20	10.05	16.25	50.00	-33.75	AVG	

*:Maximum data x:Over limit !:over margin (Reference Only



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15 RADIATED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

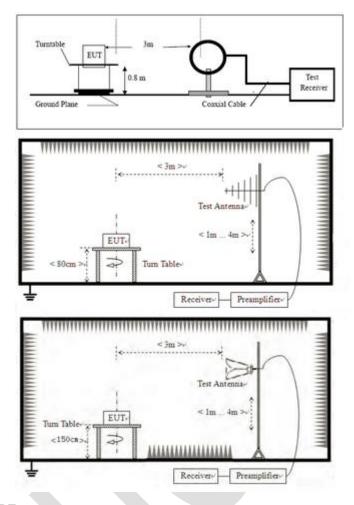
15.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.



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- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
- Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Temperature:

Humidity:

(C)

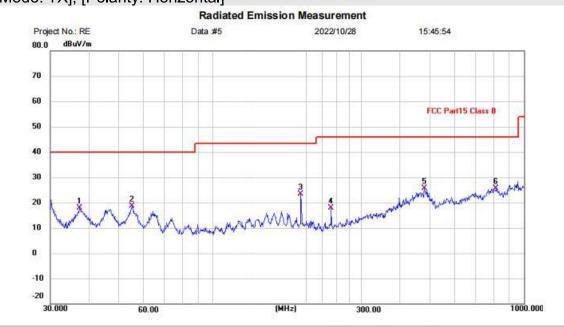
%RH

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15.4 TEST DATA

Below 1GHz

[TestMode: TX]; [Polarity: Horizontal]



Polarization: Horizontal

Limit: FCC Part15 Class B

EUT: WIRELESS HEADPHONES

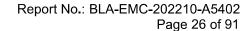
M/N: Monster Storm xkh01 Mode: TX mode

Note:

Reading Factor Level Limit Frequency Margin Detector P/F No. Remark (dB/m) (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) 17.91 37.2854 24.21 -6.30 QP Р 1 40.00 -22.09 2 54.8348 24.98 -6.4218.56 40.00 -21.44 QP P 3 * 191.7450 32.50 -9.13 23.37 43.50 -20.13 QP Р 4 239.9873 25.89 -8.05 17.84 46.00 -28.16 QP P 5 478.8455 27.13 -1.51 25.62 46.00 -20.38 QP P 6 813.1115 20.42 5.19 25.61 46.00 -20.39QP P

Power:

^{*:}Maximum data x:Over limit !:over margin

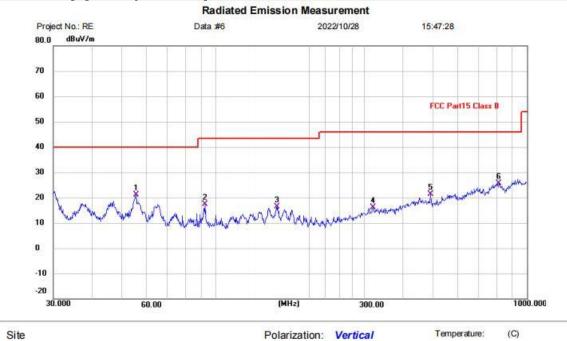


%RH

Humidity:



[TestMode: TX]; [Polarity: Vertical]



Limit: FCC Part15 Class B EUT: WIRELESS HEADPHONES M/N: Monster Storm xkh01

Mode: TX mode

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	55.4147	27.85	-6.65	21.20	40.00	-18.80	QP	Р	
2	92.4624	27.79	-10.42	17.37	43.50	-26.13	QP	Р	
3	157.5588	22.43	-5.99	16.44	43.50	-27.06	QP	Р	
4	319.9370	21.43	-5.27	16.16	46.00	-29.84	QP	Р	
5	490.7447	22.67	-1.31	21.36	46.00	-24.64	QP	Р	
6	810.2654	20.57	4.99	25.56	46.00	-20.44	QP	Р	

Power:

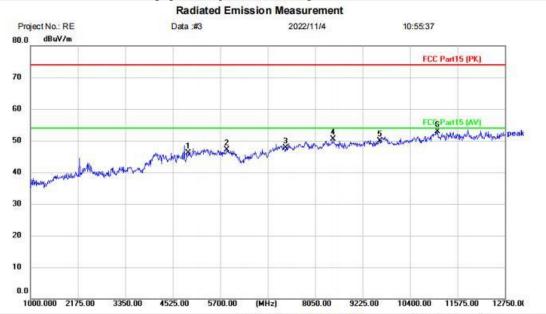
*:Maximum data x:Over limit !:over margin



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Above 1GHz

[TestMode: TX lowest channel]; [Polarity: Horizontal]



Polarization: Horizontal

Temperature:

Humidity:

(C)

%RH

Limit: FCC Part15 (PK)

6 * 11081.500

39.43

13.49

52.92

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

Mode: TX-L Note:

Site

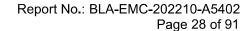
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.000	41.36	4.82	46.18	74.00	-27.82	peak		
2		5864.500	40.28	6.80	47.08	74.00	-26.92	peak		
3		7326.000	39.45	8.21	47.66	74.00	-26.34	peak		
4		8496.500	41.41	9.12	50.53	74.00	-23.47	peak		
5		9648.000	38.94	11.01	49.95	74.00	-24.05	peak		

74.00 -21.08

peak

Power:

*:Maximum data x:Over limit !:over margin (Reference Only



Humidity:

(C)

%RH



[TestMode: TX lowest channel]; [Polarity: Vertical]

Radiated Emission Measurement Project No.: RE Data:#4 2022/11/4 10:57:06 dBuV/m 80.0 FCC Part15 (PK) 70 60 50 30 20 10 10400.00 11575.00 12750.00 1000.000 2175.00 3350.00 4525.00 5700.00 9225.00

Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

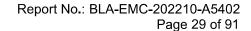
Mode: TX-L Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.000	39.58	4.82	44.40	74.00	-29.60	peak		
2		5805.750	40.62	6.76	47.38	74.00	-26.62	peak		
3		7326.000	38.30	8.21	46.51	74.00	-27.49	peak		
4		8531.750	41.05	9.14	50.19	74.00	-23.81	peak		
5		9648.000	37.99	11.01	49.00	74.00	-25.00	peak		
6	*	11845.250	39.23	13.83	53.06	74.00	-20.94	peak		

Power:

*:Maximum data x:Over limit !:over margin (Reference Only



Humidity:

(C)

%RH



[TestMode: TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement Project No.: RE Data:#5 2022/11/4 10:59:09 dBuV/m 80.0 FCC Part15 (PK) 70 60 50 30 20 10 1000.000 2175.00 10400.00 11575.00 12750.00 3350.00 4525.00 5700.00 8050.00 9225.00

Polarization: Horizontal

Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

Mode: TX-M

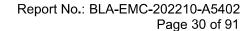
Site

Note:

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.000	41.07	4.32	45.39	74.00	-28.61	peak	
2	5794.000	40.59	6.77	47.36	74.00	-26.64	peak	
3	7311.000	38.87	8.18	47.05	74.00	-26.95	peak	
4	8484.750	40.70	9.12	49.82	74.00	-24.18	peak	
5	9748.000	38.74	11.26	50.00	74.00	-24.00	peak	
6 *	10999.250	39.56	13.45	53.01	74.00	-20.99	peak	

Power:

*:Maximum data x:Over limit !:over margin (Reference Only



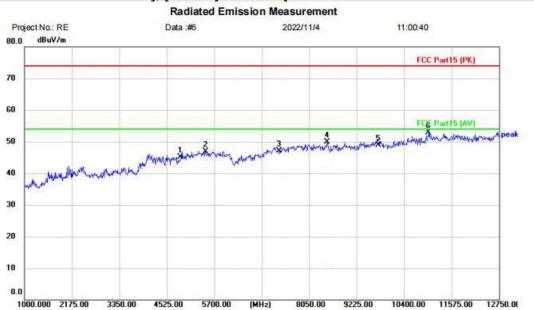
Humidity:

(C)

%RH



[TestMode: TX middle channel]; [Polarity: Vertical]



Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

Mode: TX-M

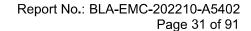
Site

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.000	40.72	4.32	45.04	74.00	-28.96	peak		
2		5488.500	39.97	6.94	46.91	74.00	-27.09	peak		
3		7311.000	38.93	8.18	47.11	74.00	-26.89	peak		
4		8496.500	40.72	9.12	49.84	74.00	-24.16	peak		
5		9768.000	37.53	11.31	48.84	74.00	-25.16	peak		
6	*	10999.250	39.41	13.45	52.86	74.00	-21.14	peak		

Power:

*:Maximum data x:Over limit !:over margin (Reference Only



10400.00 11575.00 12750.00

(C)

Temperature:

9225.00



[TestMode: TX highest channel]; [Polarity: Horizontal]

3350.00

4525.00

Radiated Emission Measurement Project No.: RE Data:#7 2022/11/4 11:01:58 dBuV/m 80.0 FCC Part15 (PK) 70 60 50 40 30 20 10

Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

1000.000 2175.00

Mode: TX-H Note:

Site

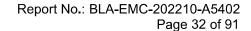
Humidity: %RH Power:

Polarization: Horizontal

5700.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2433.500	43.76	-1.52	42.24	74.00	-31.76	peak		
2		4924.000	41.50	4.82	46.32	74.00	-27.68	peak		
3		7386.000	39.17	8.36	47.53	74.00	-26.47	peak		
4		8672.750	40.28	9.21	49.49	74.00	-24.51	peak		
5		9848.000	36.67	11.52	48.19	74.00	-25.81	peak		
6	*	11821.750	39.55	13.82	53.37	74.00	-20.63	peak		

*:Maximum data x:Over limit !:over margin (Reference Only



Humidity:

(C)

%RH



[TestMode: TX highest channel]; [Polarity: Vertical]

Radiated Emission Measurement Project No.: RE Data:#8 2022/11/4 11:04:08 dBuV/m 80.0 FCC Part15 (PK) 70 60 50 30 20 10 1000.000 2175.00 10400.00 11575.00 12750.00 3350.00 4525.00 5700.00 9225.00

Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

Mode: TX-H Note:

Site

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4924.000	40.36	4.82	45.18	74.00	-28.82	peak		
2		5982.000	39.80	7.01	46.81	74.00	-27.19	peak		
3		7386.000	39.86	8.36	48.22	74.00	-25.78	peak		
4		8038.250	41.82	8.91	50.73	74.00	-23.27	peak		
5		9848.000	36.16	11.52	47.68	74.00	-26.32	peak		
6	*	11457.500	38.68	13.66	52.34	74.00	-21.66	peak		

Power:

*:Maximum data x:Over limit !:over margin (Reference Only



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16 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

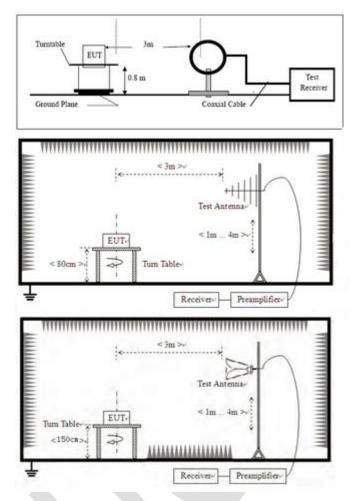
16.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.



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h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

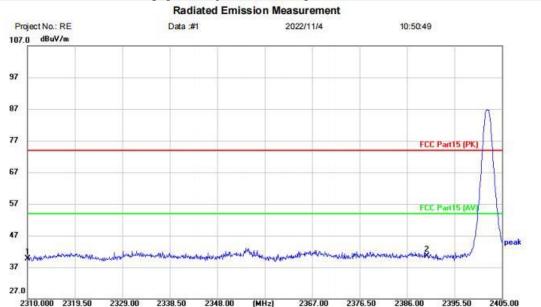




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16.4 TEST DATA

[TestMode: TX lowest channel]; [Polarity: Horizontal]



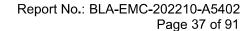
Site Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

Mode: TX-L Note: Polarization: Horizontal Temperature: (C)
Power: Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over	Detector		
									Comment	
1		2310.000	43.92	-4.27	39.65	74.00	-34.35	peak		
2	*	2390.000	44.25	-3.82	40.43	74.00	-33.57	peak		

*:Maximum data x:Over limit !:over margin (Reference Only





[TestMode: TX lowest channel]; [Polarity: Vertical]

Radiated Emission Measurement Project No.: RE Data:#2 2022/11/4 10:52:55 107.0 dBuV/m 97 87 77 FCC Part15 (PK) 67 57 47 27.0

Site Limit: FCC Part15 (PK)

2338.50

2348.00

2329.00

Polarization: Vertical

(MHz)

Temperature: Humidity:

(C) %RH

2405.00

Power:

2376.50

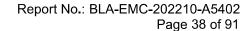
EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

2310.000 2319.50

Mode: TX-L Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	44.54	-4.27	40.27	74.00	-33.73	peak		
2	*	2390.000	45.60	-3.82	41.78	74.00	-32.22	peak		

*:Maximum data x:Over limit !:over margin (Reference Only



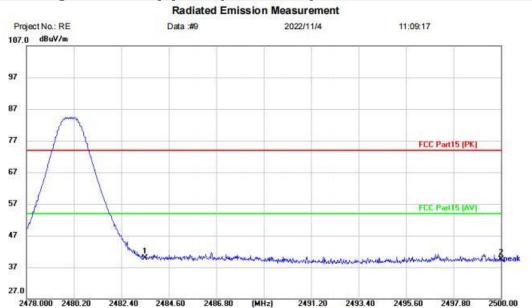
Humidity:

(C)

%RH



[TestMode: TX highest channel]; [Polarity: Horizontal]



Site Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

2500.000

43.48

-4.00

39.48

Mode: TX-H Note:

2

Reading Correct Measure-No. Mk. Limit Over Freq. Level Factor ment MHz dBuV dB/m dBuV/m dBuV/m dB Detector Comment 1 2483.500 43.87 -3.96 39.91 74.00 -34.09 peak

-34.52

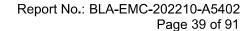
peak

74.00

Power:

Polarization: Horizontal

*:Maximum data x:Over limit !:over margin (Reference Only



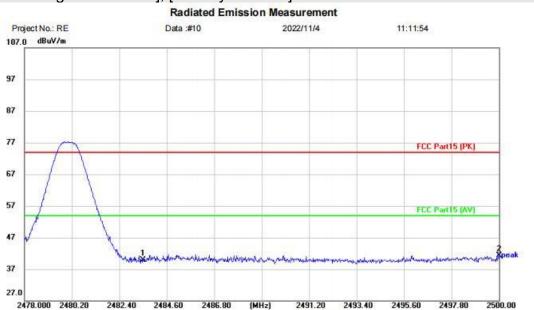
Humidity:

(C)

%RH



[TestMode: TX highest channel]; [Polarity: Vertical]



Polarization: Vertical

Limit: FCC Part15 (PK)

EUT: WIRELESS HEADPHONES M/N: Monster Storm XKH01

Mode: TX-H Note:

Site

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	2483.500	43.83	-3.96	39.87	74.00	-34.13	peak		
2 *	2500.000	45.30	-4.00	41.30	74.00	-32.70	peak		

Power:

*:Maximum data x:Over limit !:over margin (Reference Only



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17 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2				
Test Mode (Pre-Scan)	TX				
Test Mode (Final Test)	TX				
Tester	Jozu				
Temperature	25℃				
Humidity	60%				

17.1 LIMITS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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)).

17,2 BLOCK DIAGRAM OF TEST SETUP

