

# **RF EXPOSURE REPORT**

Applicant	ELECOM CO., LTD.			
Address	1-1, Fushimi-machi 4-chome, Chuoku, Osaka 541-8765, JAPAN			
Manufacturer or Supplier	ELECOM CO., LTD.			
Address	1-1, Fushimi-machi 4-chome, Chuoku, Osaka 541-8765, JAPAN			
Product	Bluetooth VR Controller	Bluetooth VR Controller		
Brand Name	ELECOM			
Model	JC-VRR02V			
Additional Model & Model Difference	JC-VRR02VBK, See item 1			
Date of tests	Jan. 03. 2018 ~ Jan. 17. 2018			
FCC Part 2 (Sec	tion 2.1093)			
KDB 447498 D0	1			
🖂 IEEE C95.1				
CONCLUSION: The	submitted sample was found to	COMPLY with the test requirement		
Tested by Breeze Jiang Project Engineer / EMC Department		Approved by Glyn He Supervisor / EMC Department		
Breece		Att		
Date: Jan. 25, 2018 This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification				

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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS180103N023	Original release	Jan. 25, 2018

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#### 1. CERTIFICATION

FCC ID:	YWO-JC-VRR02V	
PRODUCT:	Bluetooth VR Controller	
BRAND NAME:	ELECOM	
MODEL NO.:	JC-VRR02V	
ADDITIONAL NO.:	JC-VRR02VBK	
TEST SAMPLE:	Engineering Sample	
APPLICANT: ELECOM CO., LTD.		
STANDARDS:	FCC Part 2 (Section 2.1093)	
	KDB 447498 D01	
	IEEE C95.1	

Additional model JC-VRR02VBK is identical with the test model JC-VRR02V except the color of the appearance and model name for trading purpose.



### 2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR,16 where

- > f(GHz) is the RF channel transmit frequency in GHz
- > Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm) ·( f(MHz)/150)] mW, at 100MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)  $\cdot$  10] mW at > 1500 MHz and  $\leq$  6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(MHz))]$  for test separation distances > 50 mm and < 200 mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

### 3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device**.



## 4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm) Tolerance (dBm)		Lower Tolerance (dBm)	Upper Tolerance (dBm)
LE-GFSK	2402-2480	-11	+-2	-13	-9

#### The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
LE-GFSK	2440	-9.97

#### SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	-9	5	0.039	3.0	7.5	Exempt from SAR

#### Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.