



## RF Exposure Evaluation Declaration

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**FCC ID:** 2A13G-A7215

**APPLICANT:** Pico Technology Co., Ltd.

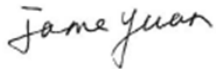
**Application Type:** Certification

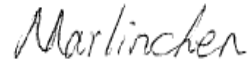
**Product:** VR All-In-One Headset

**Model No.:** A7215

**Brand Name:** 

**FCC Classification:** FCC Part 15 Spread Spectrum Transmitter(DSS)  
Digital Transmission System (DTS)  
Unlicensed National Information Infrastructure (UNII)

Reviewed By :   
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( Jame Yuan )

Approved By :   
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( Marlin Chen )



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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## Revision History

Report No.	Version	Description	Issue Date	Note
1710RSU02510	Rev. 01	Initial report	11-16-2017	Invalid
1710RSU02510	Rev. 02	Revised the calculation	11-29-2017	Valid

## 1. RF Exposure Evaluation

### 1.1. Limits

#### SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and > 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in Note 1 must be applied to determine SAR test exclusion.

MHz	50	60	70	80	90	mm
100	74	481	487	494	501	SAR Test Exclusion Threshold (mW)
150	387	397	407	417	427	
300	274	294	314	334	354	
450	224	254	284	314	344	
835	164	220	275	331	387	
900	158	218	278	338	398	
1500	122	222	322	422	522	
1900	109	209	309	409	509	
2450	96	196	296	396	496	
3600	79	179	279	379	479	
5200	66	166	266	366	466	
5400	65	165	265	365	465	
5800	62	162	262	362	462	

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

$\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$  mW, for > 1500 MHz and  $\leq$  6 GHz

### 1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

### 1.3. Test Result of RF Exposure Evaluation

Product	VR All-In-One Headset
Test Item	RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.28dBi for 2.4GHz & 2.73dBi for 5GHz in logarithm scale.

#### Output Power into Antenna:

Test Mode	Frequency Band (MHz)	Maximum output power to antenna (dBm)	Maximum output power to antenna (mW)	SAR Test Exclusion Threshold (mW) (Note 2)
Bluetooth	2402 ~ 2480	2.39	1.73	174.4
WLAN	2412 ~ 2462	17.06	50.82	174.4
	5180 ~ 5320	13.37	21.73	140.4
	5500 ~ 5720			
	5745 ~ 5825			

Note 1: The actual closest distance (From head to the device antenna) is 57.84 mm which is declared by the manufacturer. Please check detail information from operation description.

Note 2: According to the KDB 447498 D01v06 Appendix B table, the SAR test exclusion threshold increase 100mW if the test separation distance increase 10mm, so we can calculate the threshold when the distance increase 7.84mm.

For 2.4GHz, SAR test exclusion threshold = 96mW + 78.4mW = 174.4mW

For 5GHz, Worse SAR test exclusion threshold = 62mW + 78.4mW = 140.4mW

Note 3: Both of the WLAN and Bluetooth can't transmit simultaneously.

Per FCC KDB 447498 D01v06, the SAR exclusion threshold for distances > 50mm is defined by the following equation:

Bluetooth:  $1.73\text{mW} + (57.84\text{mm} - 50\text{mm}) * 10\text{mW} = 80.13\text{mW} < 174.4\text{mW}$ .

2.4GHz WLAN:  $50.82\text{mW} + (57.84\text{mm} - 50\text{mm}) * 10\text{mW} = 129.22\text{mW} < 174.4\text{mW}$ .

5GHz WLAN:  $21.73\text{mW} + (57.84\text{mm} - 50\text{mm}) * 10\text{mW} = 100.13\text{mW} < 140.4\text{mW}$ .

According to FCC KDB 447498 D01v06, the device can applied to determine SAR test exclusion.

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