



**FCC Part 1 Subpart I  
FCC Part 2 Subpart J  
RSS-102 Issue 5**

**RF EXPOSURE REPORT**

**FOR**

**Valve Left Controller**

**MODEL NUMBER: 1005**

**FCC ID:2AES41005**

**IC:20207-1005**

**REPORT NUMBER: 12561386-S1V4**

**ISSUE DATE: 12/18/2018**

*Prepared for*  
**Valve Corporation**  
**10400 NE 4th Street, Suite 1400**  
**Bellevue, WA 98004 U.S.A.**

*Prepared by*  
**UL VERIFICATION SERVICES INC.**  
**47173 BENICIA STREET**  
**FREMONT, CA 94538, U.S.A.**  
**TEL: (510) 771-1000**



---

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	11/27/2018	Original issue	
V2	12/3/2018	Updated the antenna gain	Dave Weaver
V3	12/12/2018	Updated EUT Description	Dave Weaver
V4	12/18/2018	Section 7 – Updated separation distance to 0mm	Dave Weaver

---

## TABLE OF CONTENTS

<b>1. ATTESTATION OF TEST RESULTS .....</b>	<b>4</b>
<b>2. TEST METHODOLOGY .....</b>	<b>5</b>
<b>3. REFERENCES .....</b>	<b>5</b>
<b>4. FACILITIES AND ACCREDITATION .....</b>	<b>5</b>
<b>5. DEVICE UNDER TEST .....</b>	<b>5</b>
5.1. <i>Description.....</i>	5
5.2. <i>Wireless Technologies and Output Power .....</i>	5
<b>6. FCC - STANDALONE SAR TEST EXCLUSION CONSIDERATIONS.....</b>	<b>6</b>
<b>7. ISED - STANDALONE SAR TEST EXCLUSION CONSIDERATIONS.....</b>	<b>6</b>

## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Valve Corporation  
10400 NE 4th Street, Suite 1400  
Bellevue, WA 98004 U.S.A.

**DUT DESCRIPTION:** Valve Left Controller

**MODEL:** 1005

**SERIAL NUMBER:** N/A

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 1 SUBPART I & PART 2 SUBPART J	Pass
RSS-102 Issue 5	

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For  
UL Verification Services Inc. By:



---

Dave Weaver  
Operations Leader  
UL Verification Services Inc.

## 2. TEST METHODOLOGY

All calculations were made in accordance with FCC KDB 447498 D01 v06 and RSS-102 Issue 5

## 3. REFERENCES

Output power is excerpted from the applicable test reports or client declarations.

## 4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

## 5. DEVICE UNDER TEST

### 5.1. Description

The Valve Left Controller is a handheld input device designed for PC gaming. The antenna to user separation distance was assumed to be 0 mm as this is the most conservative condition.

### 5.2. Wireless Technologies and Output Power

Wireless technologies	Frequency bands	Maximum Output Power
Bluetooth	2.4 GHz	2.9 mW

## 6. FCC - STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

From KDB 447498, for transmission frequencies 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 7.5$  where:

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz;
- Power and distance are rounded to the nearest mW and mm before calculation;
- For a separation distance of less than 5mm, 5mm is used.

The result is rounded to one decimal place for comparison with the 3.0 threshold.

The table below shows that at the maximum power and for a separation distance of 5mm or less, SAR test exclusion applies.

The device was assessed against the 10g SAR limits.

RF Air interface	RF Exposure Conditions	Frequency (GHz)	Max. tune-up tolerance	Min. test separation distance (mm)	SAR test exclusion Result*
			(mW)		
Bluetooth	Hand-Held	2.480	3	5	0.9

### **Conclusion:**

\*: The computed value is  $\leq 7.5$ ; therefore, this qualifies for SAR test exclusion.

## 7. ISED - STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

SAR test exemption from routine evaluation was determined in accordance with RSS-102 §2.5.1

If the higher of the conducted power or E.I.R.P is less than the 10 g SAR test exemption limit then SAR testing is not required. Where required the test exemption limit was derived via linear interpolation of the values provided in Table 1 of RSS-102

RF Air interface	RF Exposure Conditions	Frequency (MHz)	Max. tune-up tolerance Power (mW)	Antenna Gain (dBi)	E.I.R.P (mW)	Min. test separation distance (mm)	10-g SAR Test Exemption Limit (mW)	SAR test Required?
Bluetooth	Hand-Held	2.480	2.9	0.9	3.6	0	10	Not Required

### **Conclusion:**

SAR testing is excluded

## END OF REPORT