

# TEST REPORT

**Reference No.**..... : WTD22D03052145W002 V1  
**FCC ID** ..... : 2AOT9-NBDVR380GW-B  
**Applicant**..... : Portable Multimedia Limited  
**Address**..... : Unit 2, Caerphilly Business Park, Caerphilly, Mid Glamorgan CF83 3ED, United Kingdom  
**Manufacturer** ..... : Shenzhen Samoon Technology Co., Ltd  
**Address**..... : 9th Floor, Block 7, Zhongyuntai Industrial Park, Songbai Road, Shiyan Town, Bao'an District, Shenzhen, China.  
**Product**..... : 380GW Discreet  
**Model(s)** ..... : NBDVR380GW, FE-NBDVR380GW, NBDVR380GW-WHT, FE-NBDVR380GW-WHT, VYDVR380GW, FE-VYDVR380GW, NBDVR381GW, FE-NBDVR381GW, NBDVR382GW, FE-NBDVR382GW, 380GW-VM, NBDVR380GW-VM, PW6A3-00110, PW6A3-00011, PW6A3-00210, PW6A3-00021, PW6A3-00310, PW6A3-00014  
**Standards**..... : FCC Part 1.1307  
**Date of Receipt sample** .... : 2022-03-25  
**Date of Test** ..... : 2022-03-25 to 2022-04-08  
**Date of Issue**..... : 2022-05-23  
**Test Result**..... : **Pass**

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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### 3. Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD22D03052145 W001	2022-03-25	2022-03-25 to 2022-04-08	2022-05-20	Original	-	Replaced
WTD22D03052145 W001 V1	2022-03-25	2022-03-25 to 2022-04-08	2022-05-23	Version 1	Updated	Valid

## 4. General Information

### 4.1. General Description of E.U.T.

Product:	380GW Discreet
Model(s):	NBDVR380GW, FE-NBDVR380GW, NBDVR380GW-WHT, FE-NBDVR380GW-WHT, VYDVR380GW, FE-VYDVR380GW, NBDVR381GW, FE-NBDVR381GW, NBDVR382GW, FE-NBDVR382GW, 380GW-VM, NBDVR380GW-VM, PW6A3-00110, PW6A3-00011, PW6A3-00210, PW6A3-00021, PW6A3-00310, PW6A3-00014
Model Description:	Only the models name are different. Model NBDVR380GW was tested in this report.
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40
Antenna Gain:	0dBi

### 4.2. Details of E.U.T.

Ratings:	DC 12/24V for battery
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### 4.3. Test Facility

The test facility has a test site registered with the following organizations:

**ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.**

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

**FCC Designation No.: CN1201. Test Firm Registration No.: 523476.**

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

## 5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307	PASS

## 6. RF Exposure

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

### 6.1. Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

### 6.2. The procedures / limit

#### (A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

#### (B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; \*Plane-wave equivalent power density

### 6.3. MPE Calculation Method

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = output power to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

Mode 1: alone transmission

Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Max.Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )
2.4G WIFI	0.00	1.000	15.86	38.55	0.007669	1

### 6.4. Result: Compliance

No SAR measurement is required.

=====End of Report=====