



Report No.: HKEM190600056203

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RF Exposure Evaluation Report

Application No.: HKEM1906000562AT

Applicant: VTech Telecommunications Ltd.

Address of Applicant: 23/F, Tai Ping Industrial Centre, Block 1,57 Ting Kok Road, Tai Po, Hong

Kong.

Manufacturer: VTech Telecommunications Ltd.

Address of 23/F, Tai Ping Industrial Centre, Block 1,57 Ting Kok Road, Tai Po, Hong

Manufacturer: Kong.

Factory: VTech (Dongguan) Telecommunications Limited.

Address of Factory: VTech Science Park, Xia Ling Bei Management Zone, Liaobu, Dongguan,

Guangdong, China.

Equipment Under Test (EUT):

Product Name: Pan and Tilt Video Monitor

Model No.: VM5262 BU, VM5262-2 BU, VM5X62-ab BU ♣

Please refer to section 4.1 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: VTech

FCC ID: EW780-1500-00

Standards: 47 CFR Part 1.1307 (2016)

47 CFR Part 1.1310 (2016)

Date of Receipt: 2019-06-27

Date of Test: 2019-07-02 to 2019-07-05

Date of Issue: 2019-08-07

Test Result : PASS*

Keny Xu EMC Laboratory Manager

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2019-08-07		Original	

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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General Information

4.1 General Description of EUT

Power supply:	Adapter model: S005BNU0500080	
	Input: AC 100-240V, 50/60Hz, 150mA	
	Output: DC 5V, 800mA	
Cable:	DC Cable from adapter 186cm unshielded	
Operation Frequency:	2405-2475MHz	
Modulation Type:	GFSK	
Number of Channels:	32	
Channel Spacing:	2MHz	
Antenna Type:	Dipole Antenna	
Antenna Gain:	0dBi	

Declaration of EUT Family Grouping:

Model No.: VM5262 BU, VM5262-2 BU, VM5X62-ab BU

Only the model VM5262 BU was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on color and model number.





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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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4.4 Deviation from Standards

4.5 Abnormalities from Standard Conditions

4.6 Other Information Requested by the Customer



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6			
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure				
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30			

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

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



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4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.00 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel Frequency (MHz)		Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
		Power (dBm)	(mW)	(mW/cm²)		
Middle	2442	17.43	55.34	0.011	1.0	PASS

Note: Refer to report No. HKEM190600056202 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -

