中国认可
国际互认
检测
TESTING
CNAS L3163

CE RF Exposure Report

Project No.	:	2403G103
Equipment	:	Smart Video Phone
Brand Name	:	XONTEL
Test Model	:	XT-50G
Series Model	:	N/A
Applicant	:	XonTel Technology Trd. Co. W.L.L
Address	:	Office 21 - Justice Tower - Ali Al Salem St. - Qibla - Kuwait City - State Of Kuwait
Manufacturer	:	XonTel Technology Trd. Co. W.L.L
Address	:	Office 21 - Justice Tower - Ali Al Salem St. - Qibla - Kuwait City - State Of Kuwait
Date of Receipt	:	Apr. 15, 2024
Date of Test	:	Apr. 26, 2024
Issued Date	:	May 06, 2024
Report Version	:	R00
Test Sample	:	Engineering Sample No.: SSL2024041552.
Standard(s)	:	EN 50665:2017 EN IEC 62311:2020

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.(Dongguan).

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-ETSP-6-2403G103	R00	This is a supplementary report to the original test report (BTL-ETSP-6-2108C114). 1. The brand name, model name, applicant and manufacturer information are changed. 2. Removed the factory information. 3. Verified the power due to logo conversion. The test results are recalculated.	May 06, 2024	Valid

Remark: For the original report (BTL-ETSP-6-2108C114), the test data, data evaluation, and equipment configuration contained was accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Video Phone	
Brand Name	XONTEL	
Test Model	XT-50G	
Series Model	N/A	
Model Difference(s)	N/A	
Power Source	1# DC voltage supplied from AC adapter. Model: F18L16-120150SPAV (EU) Model: F18L18-120150SPAB (UK) 2# Supplied from PoE.	
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.6A O/P: 12.0V ⎓ 1.5A 2# DC 48V	
Product Description _2.4GHz	Operation Frequency	2412 MHz ~ 2472 MHz
	Modulation Technology	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
	Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 72.2 Mbps
	Max. e.i.r.p.	IEEE 802.11b: 17.34 dBm (54.20 mW) IEEE 802.11g: 18.39 dBm (69.02 mW) IEEE 802.11n(HT20): 18.71 dBm (74.30 mW)
Product Description _5GHz	Operation Frequency Band(s)	5150 MHz ~ 5250 MHz
	Modulation Type	IEEE 802.11a/n/ac: OFDM
	Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps IEEE 802.11ac: up to 433.3 Mbps
	Max. e.i.r.p.	IEEE 802.11a: 19.11 dBm (81.47 mW) IEEE 802.11n(HT20): 19.70 dBm (93.33 mW) IEEE 802.11n(HT40): 19.72 dBm (93.76 mW) IEEE 802.11ac(VHT20): 19.74 dBm (94.19 mW) IEEE 802.11ac(VHT40): 19.84 dBm (96.38 mW) IEEE 802.11ac(VHT80): 19.84 dBm (96.38 mW)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

For 2.4GHz:

CH01 - CH13 for IEEE 802.11b,IEEE 802.11g,IEEE 802.11n(HT20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442	12	2467
03	2422	08	2447	13	2472
04	2427	09	2452		
05	2432	10	2457		

For 5GHz:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
Band 1		Band 1		Band 1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

3. Table for Filed Antenna:

For 2.4GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	Dongguan YiJia Electronics Communication Technology Co.,Ltd.	YJL01.106.020.301A	FPC	IPEX	3.0

Note: The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	Dongguan YiJia Electronics Communication Technology Co.,Ltd.	YJL01.106.020.301A	FPC	IPEX	3.1

Note: The antenna gain is provided by the manufacturer.

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 APPLICABLE STANDARD

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 50665 - Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz).

EN IEC 62311 - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)

1 LIMIT

Council Recommendation 1999/519/EC Annex III
Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m²)
0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	4 000/f	5 000/f	—
0,025-0,8 kHz	250/f	4/f	5/f	—
0,8-3 kHz	250/f	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	0,73/f	0,92/f	—
1-10 MHz	$87/f^{1/2}$	0,73/f	0,92/f	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	f/200
2-300 GHz	61	0,16	0,20	10

2 MPE Calculation Method

$E\ (V/m) = (30*P*G)^{0.5}/d$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

d=0.2m, as the calculated distance.

3. TEST RESULTS

For 2.4GHz:

Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)	Electric Field (V/m)	Limit of Electric Field (V/m)	Result
18.71	74.302	7.465	61	Pass

For 5GHz:

Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)	Electric Field (V/m)	Limit of Electric Field (V/m)	Result
19.84	96.383	8.502	61	Pass

RF exposure assessment has been performed above to prove that this unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

End of Test Report