

MPE Test Report

Report No.: FVC-ESH-P20112379B-16

FCC ID: T2C-A20

Product: Video Conferencing Endpoint

Model: MeetingBar A20

Received Date: Dec.30, 2020

Test Date: Jan.02 to Jan.22, 2021

Issued Date: Jan.23, 2021

Applicant: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

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Release Control Record

Issue No.	Description	Date Issued
FVC-ESH-P20112379B-16	Original release	Jan.23, 2021



1 Certificate of Conformity

Product: Video Conferencing Endpoint

Brand: Yealink

Test Model: MeetingBar A20

Applicant: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

Test Date: Jan.02 to Jan.22, 2021

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Approved by :	CHAI CORPORTION CORPORTION	, Date:	Jan.23, 2021
	Daniel SUN 脚 EMC Lab Manager		



2 General Description of EUT

BLE

<u> </u>	
Product	Video Conferencing Endpoint
Brand	Yealink
Test Model	MeetingBar A20
Power Rating I/P: 48V === , 0.7A for Video Conferencing Endpoint; I/P: 100-240Vac, 50/60Hz, 1.0A; O/P: 48V === , 0.7A for AC Adapte	
Modulation Type	GFSK
Modulation Technology Bluetooth Low Energy 4.2	
Operating Frequency 2402MHz ~ 2480MHz	
Number of Channel	40
Output Power	-1.84dBm
Antenna Type	PCB Antenna
Antenna Connector	
Antenna Gain	3dBi

Note: For more details, please refer to the User's manual of the EUT.

BT

Product	Video Conferencing Endpoint		
Brand	Yealink		
Test Model	MeetingBar A20		
Power Rating	I/P: 48V ===, 0.7A for Video Conferencing Endpoint; I/P: 100-240Vac, 50/60Hz, 1.0A; O/P: 48V ===, 0.7A for AC Adapter.		
Modulation Type	GFSK, π/4-DQPSK, 8DPSK		
Modulation Technology	gy BT-EDR, FHSS		
Operating Frequency 2402MHz ~ 2480MHz			
Number of Channel	79		
Output Power	5.54dBm		
Antenna Type	PCB antenna		
Antenna Connector			
Antenna Gain	3dBi		

Note: For more details, please refer to the User's manual of the EUT.

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WIFI 2.4G			
Product	Video Conferencing Endpoint		
Brand	Yealink		
Test Model	MeetingBar A20		
Power Rating	I/P: 48V ===, 0.7A for Video Conferencing Endpoint; I/P: 100-240Vac, 50/60Hz, 1.0A; O/P: 48V ===, 0.7A for AC Adapter.		
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Modulation Technology	DSSS, OFDM		
Operating Frequency	2412~2462MHz		
Number of Channel	11b/g/n(HT20):11;11n(HT40):7		
Output Power	16.24dBm		
Antenna Type	PCB Antenna		
Antenna Connector			
Antenna Gain	Ant1:3dBi Ant2:3dBi		
	MIMO Gain:6.01dBi		

Note: For more details, please refer to the User's manual of the EUT.

WIFI 5G

Product	Video Conferencing Endpoint		
Brand	Yealink		
Test Model	MeetingBar A20		
Power Rating	I/P: 48V ===, 0.7A for Video Conferencing Endpoint; I/P: 100-240Vac, 50/60Hz, 1.0A; O/P: 48V ===, 0.7A for AC Adapter.		
Modulation Type OFDM			
	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Modulation Technology	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)		
	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
0	5150 ~ 5250MHz, 5250 ~ 5350MHz,		
Operating Frequency	5470 ~ 5725MHz, 5745 ~ 5850MHz		
Number of Channel	5150 ~ 5250MHz:7, 5250 ~ 5350MHz:7,		
	5470 ~ 5725MHz:18,5745 ~ 5850MHz:7		
Output Power	17.24dBm		
Antenna Type	PCB Antenna		
Antenna Connector			
Antenna Gain	Ant1:3dBi		
	Ant2:3dBi		
	MIMO Gain:6.01dBi		

Note: For more details, please refer to the User's manual of the EUT.



3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Power Density Strength (A/m) (mW/cm²)		Average Time (minutes)	
Limits For General Population / Uncontrolled Exposure					
300-1,500	-	-	F/1500 30		
1,500-100,000	-	-	1.0	30	

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

 $S = PG / (4\pi R^2)$

Where $S = power density in mW/cm^2$

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

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3.3 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)	
	BLE					
2402-2480	-1.84	3	20	0.0002600	1	
	ВТ					
2402-2480	5.54	3	20	0.0014222	1	
WIFI 2.4GHz						
2412-2462	16.24	3	20	0.0167090	1	
	WIFI 5GHz					
5150-5850	17.24	3	20	0.02103538	1	

Conclusion:

The calculation result of MPE is less than the limit.

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