



香港商立德國際商品試驗有限公司桃園分公司

Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

1. Original General Descriptions of EUT

Equipment		Referenced Device	Model Variant Device
FCC ID		UDX-60094010	UDX-60094011
FCC Granted Date		05/26/2020 (for NII) 05/01/2020 (for DTS)	TBD
Product		4x4 Wi-Fi6 Outdoor Access Point	4x4 Wi-Fi6 Outdoor Access Point
Brand		Cisco	Cisco
Applicant		Cisco Systems, Inc.	Cisco Systems, Inc.
Test Model		MR86-HW	MR86-HW
RF characteristics		WLAN 2.4GHz 2412 – 2462 MHz	WLAN 2.4GHz 2412 – 2462 MHz
		WLAN 5GHz 5180.0 - 5240.0 MHz 5260.0 - 5320.0 MHz 5500.0 - 5720.0 MHz 5745.0 - 5825.0 MHz	WLAN 5GHz 5180.0 - 5240.0 MHz 5260.0 - 5320.0 MHz 5500.0 - 5720.0 MHz 5745.0 - 5825.0 MHz
		BT LE 2402 – 2480 MHz	BT LE 2402 – 2480 MHz
Hardware	Difference	N.A.	1. TI TPS23751PWPR re-layout to MPS MP8009GV: (no affect PoE function.) 2. TI TLV62569DBVR adding 2nd source change (DC-DC Pin to Pin) 3. BT chip change: from EFR32MG13 to EFR32MG21 within the device (non-Pin to Pin) 4. Ethernet PHY version changed from B0 to B1.

Note:

- Exhibit prepared for Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to the declaration letter exhibit. (Original FCC ID: UDX-60094010, Report No.: RF191023E01-1 & RF191023E01D R1)
- There are WLAN, Bluetooth technology used for the EUT.



香港商立德國際商品試驗有限公司桃園分公司

Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

2. Referencing test items

Part 15C

FCC Clause	Test Items	Referenced Test Data	Note
15.247(b)	RF Output Power	Y	Only for Wi-Fi 2.4G, BLE is re-test.
15.207	AC Power Conducted Emission	Y	
15.205/ 15.209/ 15.247(d)	Unwanted Emissions above 1GHz	Y	
15.203	Antenna Requirement		
15.247(d)	Conducted Out Of Band Emission	Y	
15.247(a)(2)	6dB Bandwidth	Y	
15.247(e)	Power Spectral Density	Y	

Part 15E

FCC Clause	Test Items	Referenced Test Data	Note
15.407(a)(1/2/3)	Power Spectral Density	Y	
15.407(a)(1/2/3)	RF Output Power	Y	
15.203	Antenna Requirement	Y	
15.407(b) (1/2/3/4 (i)/10)	Unwanted Emissions above 1GHz	Y	
15.407(e)	6dB Bandwidth	Y	
-	Occupied Bandwidth	Y	
15.407(b)(g)	AC Power Conducted Emission	Y	
15.407(b)(g)	Unwanted Emissions above 1GHz	Y	
15.407(g)	Frequency Stability	Y	
15.407(a)(2)	26dB Bandwidth	Y	

3. Spot- Check Test Plan

Amount of test samples: 1 sample

Equipment Class	FCC Rule Part	Test Items	Frequency Band	Test Modes	Test Channel
DTS	Part 15C	Conducted output power/ Radiated emission – Band edge and Harmonics	2412-2462 MHz	802.11 b	CH 6 (Worse power Mode)
NII	Part 15E	Conducted output power/ Radiated emission – Band edge and Harmonics	5180-5240MHz, 5260-5320MHz, 5500-5720MHz 5745-5825MHz	802.11 a 802.11 ax 40 MHz, 80 MHz	CH 149 CH 159, CH155 (Worse power Mode)
		DFS		DFS Detection Threshold Channel Availability Check Time Channel Move Time Channel Closing Transmission Time	CH 100/CH 106



香港商立德國際商品試驗有限公司桃園分公司

Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

				Non-Occupancy Period U-NII Detection Bandwidth and Statistical Performance Check	
--	--	--	--	--	--

Note1: RF Conducted output power were confirmed and the same as Referenced Device (FCC ID: UDX-60094010)

Note2: DFS FW change as below, and the change was not affect the DFS function in the new Firmware. It also had spot check for the DFS.

Original FW	New FW	Different
T-202001230012-G7ee4ce6f-L33d620eb-jenkins-rel-doll	29-202301121832-G86bba517-rel-apartmen	<ol style="list-style-type: none">1. Add support for new PHY chip, AQR115C-B1-C2. Add support for new BLE chip, EFR32MG213. Upgrade Linux kernel to 4.4.302 Upgrade QCA wlan to SPF 11.3 CS SBA26