

# RF EXPOSURE REPORT

### **CERTIFICATE OF CONFORMITY**

FCC Rule Part: FCC Part 2 (Section 2.1091)

Report No.: MFBCKS-WTW-P22051021G

FCC ID: TVE-3918T05646

**Product:** Secured Wireless Access Point

**Brand: FORTINET** 

Model No.: FAP-431, FAP-433G

Series Model: FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx,

FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-

", or blank for software changes or marketing purposes only)

Received Date: 2024/3/19

**Test Date**: 2024/5/8 **Issued Date**: 2024/5/17

Applicant: Fortinet, Inc.

Address: 899 Kifer Rd. Sunnyvale CA. 94086 United States

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

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

**Designation Number:** 

Approved by:	Jeremy Lin	, Date:	2024/5/17	

Jeremy Lin / Project Engineer

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Prepared by: Pettie Chen / Senior Specialist

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### **Release Control Record**

Issue No.	Description	Date Issued
MFBCKS-WTW-P22051021G	Original release.	2024/5/17

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#### 1 Certificate

**Product:** Secured Wireless Access Point

**Brand:** FORTINET

Test Model: FAP-431, FAP-433G

Series Model: FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-

433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or

blank for software changes or marketing purposes only)

Sample Status: Engineering sample

**Applicant:** Fortinet, Inc.

**Test Date:** 2024/5/8

FCC Rule Part: FCC Part 2 (Section 2.1091)

Standard: KDB 447498 D04 Interim General RF Exposure Guidance v01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, 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 RF characteristics under the conditions specified in this report.

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## 2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

Measurement	Specification	Expanded Uncertainty (k=2) (±)
DE Evnequire	1 GHz ~ 2.5 GHz	1.2 dB
RF Exposure	2.5 GHz ~ 8 GHz	1.3 dB

#### 3 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### **Routine Evaluation**

Routine Evaluation Procedure - Single and/or Multiple RF Sources

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
EM Field Meter Wavecontrol	SMP2 Dual	22SN1913	2023/7/6	2024/7/5
Probe Wavecontrol	WPF60	22SN1914	2023/5/15	2024/5/14

#### Notes:

1. The test was performed in Oven room.

2. Tested Date: 2024/5/8

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### 4 Applicable RF Exposure Limit

- § 1.1310 Radiofrequency radiation exposure limits.
- (a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) of this part within the frequency range of 100 kHz to 6 GHz (inclusive).
- (b) The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.
- (c) The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

### (e) Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

Limits for General Population/Uncontrolled Exposure

/ Limits for Octional i	Limits for General i opdiation/oncontrolled Exposure								
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)					
	Limits For General Population / Uncontrolled Exposure								
0.3-1.34	614	1.63	(100)*	<30					
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	<30					
30-300	27.5	0.073	0.2	<30					
300-1,500			f/1500	<30					
1,500-100,000			1.0	<30					

f = frequency in MHz. \* = Plane-wave equivalent power density.

#### Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (minutes)			
Limits For General Population / Uncontrolled Exposure							
0.3-3.0	614	1.63	*(100)	⊴6			
3.0-30	1842/f	4.89/f	*(900/f²)	<6			
30-300	61.4	0.163	1.0	<6			
300-1,500			f/300	<6			
1,500-100,000			5	<6			

f = frequency in MHz. \* = Plane-wave equivalent power density.

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#### MPE-based Exemption - §1.1307(b)(3)(i)(B)

For mobile devices that are not exempt per Table 1 of §1.1307(b)(1)(i)(C) and device at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.

ain and the delivered maximum time-averaged power. 
$$P_{\rm th}~({\rm mW}) = ERP_{\rm 20~cm}~({\rm mW}) = \begin{cases} 2040f & 0.3~{\rm GHz} \le f < 1.5~{\rm GHz} \\ 3060 & 1.5~{\rm GHz} \le f \le 6~{\rm GHz} \end{cases}$$

#### **Routine Evaluation**

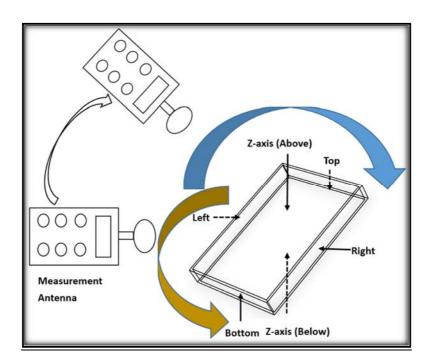
#### Routine Evaluation Procedure - Single and/or Multiple RF Sources

MPE compliance are measurement in all directions surrounding the antenna and radiating structures of the device.

For non-directional antennas, MPE evaluation points shall be along radials extending from the antenna (axis) that are no more than 30° apart. The direction of maximum exposure shall be aligned with one of the radials.

For each specific exposure condition, the evaluation points along the longest dimension (e.g., vertical) shall use a spatial resolution of 10 cm or less, and shall extend at least 10 cm beyond the exposed portions of a person's body or until the evaluated results are less than 10% of the MPE limit. For exposures occurring next to the ground or next to a ground plane, the evaluation points shall be no closer than 10 cm from the ground.

#### Test Setup



Note: The measurement antenna are moving and surrounding the EUT when performed the test, the test results recorded the highest values for each sides of the EUT (left/right/top/bottom/z-axis)

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#### Fixed RF sources operating in the same time-averaging period – §1.1307(b)(3)(ii)(B)

➤ Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluatedk term) should be used to determine exemption for simultaneous transmission according to Formula below,

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

The sum of the ratios of the applicable terms for SAR-based, MPE-based and measured SAR or MPE should be less than 1, to determine simultaneous transmission exposure compliance.

#### Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using <u>paragraph (b)(3)(i)(B)</u> of this section for  $P_{th}$ , including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

 $P_{th,i}$  = the exemption threshold power  $(P_{th})$  according to <u>paragraph</u> (<u>b)(3)(i)(B)</u> of this section for fixed, mobile, or portable RF source *i*.  $ERP_{th,j}$  = exemption threshold ERP for fixed, mobile, or portable RF source *j*, at a distance of at least  $\lambda/2\pi$  according to the applicable formula of <u>paragraph</u> (<u>b)(3)(i)(C)</u> of this section.

Exposure  $Limit_k$  = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

b = number of fixed, mobile, or portable RF sources claiming exemption using <u>paragraph (b)(3)(i)(C)</u> of this section for Threshold ERP, including existing exempt transmitters and those being added.

 $P_i$  = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $ERP_i$  = the ERP of fixed, mobile, or portable RF source j.

 $Evaluated_k$  = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

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### 5 Test Results

Environmental 25°C, 60% RH Conditions:	Tested By:	Gary Lin
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Model: FAP-431G
For Single RF Source

MPE-based Exemption §1.1307(b)(3)(i)(C)								
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result	
Radio3_Band 3_CDD_WLAN 5 GHz	5500-5720	248.612	5.3	513.478	20	768	Pass	
Radio3_Band 3_BF_WLAN 5 GHz	5500-5720	193.738	7.11	607.037	20	768	Pass	
Radio3_CDD_WLAN 6 GHz	5955-7115	103.803	4.8	191.078	20	768	Pass	
Radio3_BF_WLAN 6 GHz	5955-7115	71.4	6.37	188.668	20	768	Pass	
Scan Radio_WLAN 2.4 GHz	2412-2462	169.078	3.5	230.721	20	768	Pass	
Scan Radio_Band 1_WLAN 5 GHz	5180-5240	143.083	4.98	274.529	20	768	Pass	
Scan Radio_WLAN 6 GHz	5955-7115	159.612	5.5	345.196	20	768	Pass	

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

	MPE-based Exemption §1.1307(b)(3)(i)(B)								
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result		
Bluetooth	2402-2480	59.841	3.8	87.498	20	3060	Pass		
Zigbee	2405-2480	73.621	3.8	107.647	20	3060	Pass		
Radio1_CDD_WLAN 2.4 GHz	2412-2462	975.407	2.38	1028.456	20	3060	Pass		
Radio2_Band 2_CDD_WLAN 5 GHz	5260-5320	249.133	4.85	463.907	20	3060	Pass		
Radio2_Band 3_CDD_WLAN 5 GHz	5500-5720	249.574	4.51	429.734	20	3060	Pass		
Radio2_Band 4_CDD_WLAN 5 GHz	5745-5825	993.315	4.3	1629.622	20	3060	Pass		
Radio2_Band 1_BF_WLAN 5 GHz	5180-5240	758.479	6.94	2285.302	20	3060	Pass		
Radio2_Band 2_BF_WLAN 5 GHz	5260-5320	193.244	6.98	587.633	20	3060	Pass		
Radio2_Band 3_BF_WLAN 5 GHz	5500-5720	246.032	6.06	605.329	20	3060	Pass		
Radio3_Band 4_CDD_WLAN 5 GHz	5745-5825	704.842	5.3	1455.767	20	3060	Pass		
Radio3_Band 4_BF_WLAN 5 GHz	5745-5825	704.842	6.91	2109.074	20	3060	Pass		
Radio3_CDD_WLAN 5.9 GHz	5815-5885	563.181	5.3	1163.183	20	3060	Pass		
Radio3_BF_WLAN 5.9 GHz	5815-5885	352.685	6.91	1055.327	20	3060	Pass		
Scan Radio_Band 4_WLAN 5 GHz	5745-5825	403.211	5.3	832.784	20	3060	Pass		
Scan Radio_WLAN 5.9 GHz	5815-5885	425.79	5.3	879.418	20	3060	Pass		

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Routine Evaluation (General Population)								
Operation Mode Frequency Band (MHz)		Power Density (mW/cm <sup>2</sup> )	Test Distance (cm)	Limit (mW/cm²)	Test Result			
Radio1_BF_WLAN 2.4 GHz	2412-2462	0.033	20	1	Pass			
Radio2_Band 1_CDD_WLAN 5 GHz	5180-5240	0.023	20	1	Pass			
Radio2_Band 4_BF_WLAN 5 GHz	5745-5825	0.021	20	1	Pass			

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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### For Multiple RF Sources (Simultaneous Operations Condition 1)

Multiple RF Sources (Simultaneous Operations)								
	iviuitipie RF S	burces (Simula	aneous Ope	eration	8)			
Exe	Exemption Evaluation							
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result	
Bluetooth	2402-2480	87.498	3060	0.029				
Radio3_Band 4_BF_FWLAN 5 GHz	5745-5825	2109.074	3060	0.689				
Routine Eval	uation (General l	Population)						
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	0.774	1	Pass	
Radio1_BF_WLAN 2.4 GHz	2412-2462	0.033	1	0.033				
Radio2_Band 1 _BF_WLAN 5 GHz	5180-5240	0.023	1	0.023				

### For Multiple RF Sources (Simultaneous Operations Condition 2)

•	посто орогии						
	Multiple RF So	ources (Simulta	aneous Ope	erations	s)		
Exe	mption Evaluatio	n					
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result
Bluetooth	2402-2480	87.498	3060	0.029			
Radio2_Band 4_CDD_WLAN 5 GHz	5745-5825	1629.622	3060	0.533			
Radio3_CDD_WLAN 6 GHz	5955-7115	191.078	768	0.249	0.844	4	Pass
Routine Evalu	uation (General F	Population)			0.044	Į.	Fa55
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio			
Radio1_BF_WLAN 2.4 GHz	2412-2462	0.033	1	0.033			

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### For Multiple RF Sources (Simultaneous Operations Condition 3)

	Multiple RF Sources (Simultaneous Operations)								
Exe									
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result		
Zigbee	2405-2480	107.647	3060	0.035					
Radio3_Band 4_BF_FWLAN 5 GHz	5745-5825	2109.074	3060	0.689					
Routine Eval	uation (General l	Population)							
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	0.78	1	Pass		
Radio1_BF_WLAN 2.4 GHz	2412-2462	0.033	1	0.033					
Radio2_Band 1 _BF_WLAN 5 GHz	5180-5240	0.023	1	0.023					

### For Multiple RF Sources (Simultaneous Operations Condition 4)

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Multiple RF Sources (Simultaneous Operations)							
Exe	mption Evaluatio	n					
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result
Zigbee	2405-2480	107.647	3060	0.035			
Radio2_Band 4_CDD_WLAN 5 GHz	5745-5825	1629.622	3060	0.533			
Radio3_CDD_WLAN 6 GHz	5955-7115	191.078	768	0.249	0.95	1	Door
Routine Evalu	uation (General F	Population)			0.85	I	Pass
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio			
Radio1_BF_WLAN 2.4 GHz	2412-2462	0.033	1	0.033			

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Environmental Conditions: 25°C, 60% RH Tested By: Jisyong Wang

Model: FAP-433G

## For Single RF Source

MPE-based Exemption §1.1307(b)(3)(i)(C)									
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result		
Bluetooth	2402-2480	58.884	3.8	86.099	20	768	Pass		
Zigbee	2405-2480	72.946	3.8	106.66	20	768	Pass		
Radio 3_CDD_WLAN 5.9 GHz	5815-5885	541.884	2.81	630.821	20	768	Pass		
Radio 3_CDD_WLAN 6 GHz	5955-7115	86.715	2.71	98.649	20	768	Pass		
Scan Radio_Band 1_WLAN 5 GHz	5180-5240	147.665	2.39	156.055	20	768	Pass		
Scan Radio_Band 4_WLAN 5 GHz	5745-5825	345.182	2.81	401.835	20	768	Pass		

	MPE-based E	Exemption §1	.1307(b)(3)(i	i)(B)			
Operation Mode	Frequency Band (MHz)	Average Power (mW)	Antenna Gain (dBi)	Maximum ERP (mW)	Distance (cm)	Limit Threshold (mW)	Test Result
Radio 1_CDD_WLAN 2.4 GHz	2412-2462	812.047	6.34	2130.989	20	3060	Pass
Radio 2_Band 1_CDD_WLAN 5 GHz	5180-5240	402.959	7.61	1416.644	20	3060	Pass
Radio 2_Band 2_CDD_WLAN 5 GHz	5260-5320	118.867	7.76	432.575	20	3060	Pass
Radio 2_Band 3_CDD_WLAN 5 GHz	5500-5720	202.063	6.93	607.417	20	3060	Pass
Radio 2_Band 4_CDD_WLAN 5 GHz	5745-5825	868.331	7.16	2752.234	20	3060	Pass
Radio 2_Band 1_BF_WLAN 5 GHz	5180-5240	250.795	12.54	2743.588	20	3060	Pass
Radio 2_Band 2_BF_WLAN 5 GHz	5260-5320	65.387	11.83	607.423	20	3060	Pass
Radio 2_Band 3_BF_WLAN 5 GHz	5500-5720	57.888	12.34	604.768	20	3060	Pass
Radio 3_Band 3_CDD_WLAN 5 GHz	5500-5720	249.027	2.81	289.899	20	3060	Pass
Radio 3_Band 4_CDD_WLAN 5 GHz	5745-5825	797.041	2.81	927.856	20	3060	Pass
Radio 3_Band 3_BF_WLAN 5 GHz	5500-5720	114.837	8.35	478.72	20	3060	Pass
Radio 3_BF_WLAN 5.9 GHz	5815-5885	541.884	8.26	2212.617	20	3060	Pass
Scan Radio_WLAN 2.4 GHz	2412-2462	229.132	3.11	285.815	20	3060	Pass
Scan Radio_WLAN 5.9 GHz	5815-5885	389.523	2.81	453.454	20	3060	Pass

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Routine Evaluation (General Population)									
Operation Mode	Frequency Band (MHz)	Power Density (mW/cm²)	Test Distance (cm)	Limit (mW/cm <sup>2</sup> )	Test Result				
Radio 1_BF_WLAN 2.4 GHz	2412-2462	0.032	20	1	Pass				
Radio 3_Band 4_BF_WLAN 5 GHz	5745-5825	0.022	20	1	Pass				
Radio 3_BF_WLAN 6 GHz	5955-7115	0.019	20	1	Pass				
Scan Radio_WLAN 6 GHz	5955-7115	0.016	20	1	Pass				
Radio 2_Band 4_BF_WLAN 5 GHz	5745-5825	0.025	20	1	Pass				

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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### For Multiple RF Sources (Simultaneous Operations Condition 1)

Multiple RF Sources (Simultaneous Operations)							
Exe	emption Evaluation	on					
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result
Radio 2_Band 1_BF_WLAN 5 GHz	5180-5240	2743.588	3060	0.897			
Bluetooth	2402-2480	86.099	3060	0.028			
Routine Eva	luation (General	Population)					
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	0.979	1	Pass
Radio 1_BF_WLAN 2.4 GHz	2412-2462	0.032	1	0.032			
Radio 3_Band 4_BF_WLAN 5 GHz	5745-5825	0.022	1	0.022			

### For Multiple RF Sources (Simultaneous Operations Condition 2)

	Multiple RF S	Sources (Simult	aneous Op	eration	s)		
Exe	Exemption Evaluation						
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result
Bluetooth	2402-2480	86.099	3060	0.028			
Routine Eval	uation (General	Population)					
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	0.104	1	Pass
Radio 1_BF_WLAN 2.4 GHz	2412-2462	0.032	1	0.032			
Radio 2_Band 4_BF_WLAN 5 GHz	5745-5825	0.025	1	0.025			
Radio 3_BF_WLAN 6 GHz	5955-7115	0.019	1	0.019			

## For Multiple RF Sources (Simultaneous Operations Condition 3)

For Multiple KF 3001Ces (311101	tanoous operat		•/				
Multiple RF Sources (Simultaneous Operations)							
Exe	emption Evaluation	on					
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result
Radio 2_Band 1_BF_WLAN 5 GHz	5180-5240	2743.588	3060	0.897			
Zigbee	2405-2480	106.66	3060	0.035			
Routine Eval	uation (General	Population)					
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	0.986	1	Pass
Radio 1_BF_WLAN 2.4 GHz	2412-2462	0.032	1	0.032			
Radio 3_Band 4_BF_WLAN 5 GHz	5745-5825	0.022	1	0.022			

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## For Multiple RF Sources (Simultaneous Operations Condition 4)

Multiple RF Sources (Simultaneous Operations)							
Exe	emption Evaluation	on					
Operation Mode	Frequency Band (MHz)	Maximum ERP (mW)	Limit Threshold (mW)	Ratio	Sum of Ratios	Limit of Ratios	Test Result
Zigbee	2405-2480	106.66	3060	0.035			
Routine Eval	uation (General	Population)					
Operation Mode	Operation Mode	Power Density (mW/cm²)	Limit (mW/cm²)	Ratio	0.111	1	Pass
Radio 1_BF_WLAN 2.4 GHz	2412-2462	0.032	1	0.032			
Radio 2_Band 4_BF_WLAN 5 GHz	5745-5825	0.025	1	0.025			
Radio 3_BF_WLAN 6 GHz	5955-7115	0.019	1	0.019			

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### 6 Conclusion

Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

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### 7 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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