

# FCC Maximum Permissible RF Exposure (MPE) Estimation Report

In accordance with the requirements of  
FCC 47 CFR Part 2(2.1091), ANSI/IEEE C95.1-1992 and  
KDB 447498 D01

**Product Name:** 4K AOSP OTT BOX

**Trademark:** DIGICEL

**Model Name:** DV8547

**Family Model:** N/A

**Report No.:** S20082703602005

**FCC ID:** 2AW68-DV8547

## Prepared for

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### TEST RESULT CERTIFICATION

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#### Product description

Product name ..... : 4K AOSP OTT BOX  
Trademark ..... : DIGICEL  
Model and/or type reference : DV8547  
Family Model ..... : N/A  
Standards ..... : FCC 47 CFR Part 1(1.1310)  
FCC 47 CFR Part 2(2.1091)  
ANSI/IEEE C95.1-1992  
KDB 447498 D01

This device described above has been tested by Shenzhen NTEK. Testing has shown that this device is capable of compliance with MPE specified in FCC 47 CFR Part 2(2.1091) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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#### Date of Test

Date (s) of performance of tests ..... : 27 Aug. 2020 ~ 21 Sep. 2020  
Date of Issue ..... : 21 Sep.2020  
Test Result..... : **Pass**

Prepared By : Cheng Jiawen  
(Test Engineer) : (Cheng Jiawen)  
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※ ※ **Revision History** ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Sep 21, 2020	Cheng Jiawen

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# 1 General Information

## 1.1 RF Exposure Requirements

### 1.1.1 RF Exposure Limits

**Table - Limits For Maximum Permissible Exposure (MPE)**

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) 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

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P_t * G_t}{4 * \pi * R^2}$$

Where:

S = Power density (mW/cm<sup>2</sup>)

P<sub>t</sub> = Conducted output power (dBm)

G<sub>t</sub> = numeric gain of the antenna in the direction of interest relative to an isotropic radiator (dBi)

R = distance to the centre of radiation of the antenna (cm)

EIRP = P<sub>t</sub> \* G<sub>t</sub>

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

### 1.1.2 Additional Description

An estimation of MPE in this application for product is used to ensure if it complies to the rules of the standard in the regulation list above.

Maximum permissible exposure (MPE) refers to the RF energy that is acceptable for human exposure. It is broken down into two categories, Occupational/controlled and General population/uncontrolled.

Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

We analysis if it comply with the limits for General population/uncontrolled exposure. The FCC's MPE limits for field strength and power density are given in 47CFR 1.1310(Table below).These limits are generally based on recommended exposure guidelines published by the National Council on Radiation Protection and Measurements (NCRP), and also partly based on guidelines recommended by the American National Standards Institute (ANSI) in Section 4.1 of ANSI/IEEE C95.1.

## 1.2 EUT Description

Device Information			
Product Name	4K AOSP OTT BOX		
Trade Name	DIGICEL		
Model Name	DV8547		
Family Model	N/A		
FCC ID	2AW68-DV8547		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Designation:	See Table for Filed Antenna		
Antenna Gain(Peak)	See Table for Filed Antenna		
Device Operating Configurations			
Supporting Mode(s)	WLAN 2.4G/5.2G/5.8G		
Test Modulation	<input checked="" type="checkbox"/> BT(1Mbps)/BLE: GFSK <input checked="" type="checkbox"/> BT EDR(2Mbps): $\Pi/4$ -DQPSK <input checked="" type="checkbox"/> BT EDR(3Mbps): 8-DPSK <input checked="" type="checkbox"/> IEEE 802.11b : DSSS (CCK,DQPSK, DBPSK) <input checked="" type="checkbox"/> IEEE 802.11g/n: OFDM(64QAM, 16QAM, QPSK, BPSK) <input checked="" type="checkbox"/> 802.11a/n: OFDM (BPSK / QPSK / 16QAM/64QAM) 802.11ac:OFDM (QPSK/BPSK/16QAM/64QAM/256QAM)		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	BT	2402-2480	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	

Note:

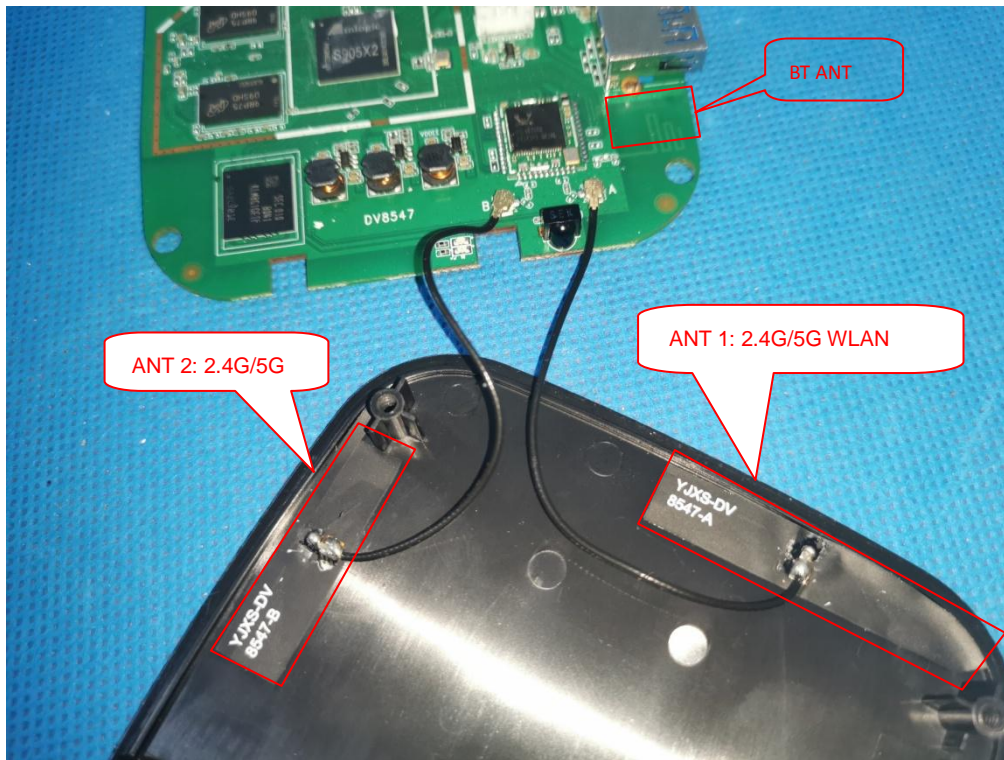
- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- EUT has two antennas, and different modes support different transmit mode what describe as Following form:

Antenna	Brand	Model Name (P/N)	Antenna Type	Connector	Antenna Gain(dBi)	
					2.4G	5G
1(main)	N/A	N/A	FPCB	I-PEX	3.59	3.86
2(aux)	N/A	N/A	FPCB	I-PEX	3.41	3.65

BT Antenna Gain: 2.69dBi

Note 3:

This EUT has two antenna, Antenna 1 supports Bluetooth, WIFI2.4G / 5G, Antenna 2 supports WIFI2.4G / 5G



The module for WIFI has two antennas, and different modes support different transmit mode what describe as Following form:

Mode	Tx/Rx
802.11b/g	1TX, 1RX
802.11n(20MHz,40MHz)	2TX, 2RX

For 2.4GHz mode, Antenna 1,2 are transmitting, each with the same directional gain.

For MIMO mode, Directional gain= $10\log[(10^{G0/20} + 10^{G1/20})^2 / N_{ANT}]$  dBi =6.7dbi in 2.4GHz

802.11n(20/40) 2.4GHz has MIMO mode.

For 5GHz mode, Antenna 1,2 are transmitting, each with the same directional gain.

For MIMO mode, Directional gain= $[10\log(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi =6.77dBi in 5GHz

the 802.11n(20/40) ac(20/40/80) 5GHz has MIMO mode.

Note: G1 means antenna gain for ANT 1 in dBi.

G2 means antenna gain for ANT 2 in dBi.

$N_{ANT}$  means the number of Antennas.

### 1.3 Test specification(s)

FCC 47 CFR Part 1(1.1310)
FCC 47 CFR Part 2(2.1091)
ANSI/IEEE C95.1-1992
KDB 447498 D01 General RF Exposure Guidance



### 1.4 Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

## 2 RF Output Power

BT

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	6.25	30	Pass
NVNT	1-DH5	2441	Ant 1	5.71	30	Pass
NVNT	1-DH5	2480	Ant 1	6.15	30	Pass
NVNT	2-DH5	2402	Ant 1	5.54	30	Pass
NVNT	2-DH5	2441	Ant 1	4.88	30	Pass
NVNT	2-DH5	2480	Ant 1	5.33	30	Pass
NVNT	3-DH5	2402	Ant 1	5.75	30	Pass
NVNT	3-DH5	2441	Ant 1	5.11	30	Pass
NVNT	3-DH5	2480	Ant 1	5.52	30	Pass

BLE

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant 1	3.67	30	Pass
NVNT	BLE	2440	Ant 1	4.09	30	Pass
NVNT	BLE	2480	Ant 1	3.47	30	Pass

2.4Gwifi

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant 1	14.21	--	30	Pass
NVNT	b	2437	Ant 1	14.33	--	30	Pass
NVNT	b	2462	Ant 1	14.36	--	30	Pass
NVNT	b	2412	Ant 2	14.43	--	30	Pass
NVNT	b	2437	Ant 2	14.53	--	30	Pass
NVNT	b	2462	Ant 2	14.56	--	30	Pass
NVNT	g	2412	Ant 1	14.17	--	30	Pass
NVNT	g	2437	Ant 1	14.12	--	30	Pass
NVNT	g	2462	Ant 1	14.23	--	30	Pass
NVNT	g	2412	Ant 2	13.8	--	30	Pass
NVNT	g	2437	Ant 2	14	--	30	Pass
NVNT	g	2462	Ant 2	13.51	--	30	Pass
NVNT	n20	2412	Ant 1	13.98	16.87	29.3	Pass
NVNT	n20	2412	Ant 2	13.74			Pass
NVNT	n20	2437	Ant 1	14.02	16.96	29.3	Pass
NVNT	n20	2437	Ant 2	13.88			Pass
NVNT	n20	2462	Ant 1	14.12	16.80	29.3	Pass
NVNT	n20	2462	Ant 2	13.43			Pass
NVNT	n40	2422	Ant 1	13.49	16.33	29.3	Pass
NVNT	n40	2422	Ant 2	13.15			Pass
NVNT	n40	2437	Ant 1	13.44	16.20	29.3	Pass
NVNT	n40	2437	Ant 2	12.93			Pass
NVNT	n40	2452	Ant 1	13.55	16.37	29.3	Pass
NVNT	n40	2452	Ant 2	13.16			Pass

5.2G

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Total Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	9.73	0	9.73		24	Pass
NVNT	802.11a	5200	Ant 1	9.68	0	9.68		24	Pass
NVNT	802.11a	5240	Ant 1	9.7	0	9.7		24	Pass
NVNT	802.11a	5180	Ant 2	9.72	0	9.72		24	Pass
NVNT	802.11a	5200	Ant 2	9.7	0	9.7		24	Pass
NVNT	802.11a	5240	Ant 2	9.81	0	9.81		24	Pass
NVNT	802.11ac20	5180	Ant 1	9.72	0	9.72	12.59	23.23	Pass
NVNT	802.11ac20	5200	Ant 2	9.43	0	9.43			
NVNT	802.11ac20	5240	Ant 1	9.67	0	9.67	12.56	23.23	Pass
NVNT	802.11ac20	5180	Ant 2	9.42	0	9.42			
NVNT	802.11ac20	5200	Ant 1	9.63	0	9.63	12.77	23.23	Pass
NVNT	802.11ac20	5240	Ant 2	9.89	0	9.89			
NVNT	802.11ac40	5190	Ant 1	9.52	0	9.52	12.50	23.23	Pass
NVNT	802.11ac40	5230	Ant 2	9.46	0	9.46			
NVNT	802.11ac40	5190	Ant 1	9.45	0	9.45	12.38	23.23	Pass
NVNT	802.11ac40	5230	Ant 2	9.29	0	9.29			
NVNT	802.11ac80	5210	Ant 1	9.02	0	9.02	12.02	23.23	Pass
NVNT	802.11ac80	5210	Ant 2	8.99	0	8.99			
NVNT	802.11n(HT20)	5180	Ant 1	9.72	0	9.72	12.75	23.23	Pass
NVNT	802.11n(HT20)	5200	Ant 2	9.75	0	9.75			
NVNT	802.11n(HT20)	5240	Ant 1	9.72	0	9.72	12.44	23.23	Pass
NVNT	802.11n(HT20)	5180	Ant 2	9.11	0	9.11			
NVNT	802.11n(HT20)	5200	Ant 1	9.59	0	9.59	12.66	23.23	Pass
NVNT	802.11n(HT20)	5240	Ant 2	9.7	0	9.7			
NVNT	802.11n(HT40)	5190	Ant 1	9.21	0	9.21	12.24	23.23	Pass
NVNT	802.11n(HT40)	5230	Ant 2	9.25	0	9.25			
NVNT	802.11n(HT40)	5190	Ant 1	9.25	0	9.25	12.10	23.23	Pass
NVNT	802.11n(HT40)	5230	Ant 2	8.92	0	8.92			

5.3G

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Total Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5260	Ant 1	9.79	0	9.79		23.92	Pass
NVNT	802.11a	5280	Ant 1	9.66	0	9.66		23.92	Pass
NVNT	802.11a	5320	Ant 1	9.76	0	9.76		23.90	Pass
NVNT	802.11a	5260	Ant 2	9.57	0	9.57		23.93	Pass
NVNT	802.11a	5280	Ant 2	9.53	0	9.53		23.86	Pass
NVNT	802.11a	5320	Ant 2	9.56	0	9.56		23.88	Pass
NVNT	802.11ac20	5260	Ant 1	9.54	0	9.54	12.74	23.23	Pass
NVNT	802.11ac20	5280	Ant 2	9.92	0	9.92			Pass
NVNT	802.11ac20	5320	Ant 1	9.19	0	9.19	12.42	23.23	Pass
NVNT	802.11ac20	5260	Ant 2	9.61	0	9.61			Pass
NVNT	802.11ac20	5280	Ant 1	9.77	0	9.77	12.78	23.23	Pass
NVNT	802.11ac20	5320	Ant 2	9.76	0	9.76			Pass
NVNT	802.11ac40	5270	Ant 1	8.96	0	8.96	12.03	23.23	Pass
NVNT	802.11ac40	5310	Ant 2	9.07	0	9.07			Pass
NVNT	802.11ac40	5270	Ant 1	9.15	0	9.15	11.96	23.23	Pass
NVNT	802.11ac40	5310	Ant 2	8.75	0	8.75			Pass
NVNT	802.11ac80	5290	Ant 1	8.77	0	8.77	11.79	23.23	Pass
NVNT	802.11ac80	5290	Ant 2	8.78	0	8.78			Pass
NVNT	802.11n(HT20)	5260	Ant 1	9.11	0	9.11	12.13	23.23	Pass
NVNT	802.11n(HT20)	5280	Ant 2	9.12	0	9.12			Pass
NVNT	802.11n(HT20)	5320	Ant 1	9.55	0	9.55	12.47	23.23	Pass
NVNT	802.11n(HT20)	5260	Ant 2	9.36	0	9.36			Pass
NVNT	802.11n(HT20)	5280	Ant 1	9.6	0	9.6	12.62	23.23	Pass
NVNT	802.11n(HT20)	5320	Ant 2	9.61	0	9.61			Pass
NVNT	802.11n(HT40)	5270	Ant 1	8.94	0	8.94	11.99	23.23	Pass
NVNT	802.11n(HT40)	5310	Ant 2	9.01	0	9.01			Pass
NVNT	802.11n(HT40)	5270	Ant 1	9.12	0	9.12	11.97	23.23	Pass
NVNT	802.11n(HT40)	5310	Ant 2	8.8	0	8.8			Pass

## 5.6G

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Total Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant 1	9.55	0	9.55		23.87	Pass
NVNT	a	5600	Ant 1	9.64	0	9.64		23.87	Pass
NVNT	a	5700	Ant 1	9.38	0	9.38		23.87	Pass
NVNT	a	5500	Ant 2	9.87	0	9.87		23.86	Pass
NVNT	a	5600	Ant 2	9.8	0	9.8		23.88	Pass
NVNT	a	5700	Ant 2	9.81	0	9.81		23.83	Pass
NVNT	ac20	5500	Ant 1	9.51	0	9.51	12.60	23.23	Pass
NVNT	ac20	5500	Ant 2	9.67	0	9.67			Pass
NVNT	ac20	5600	Ant 1	9.71	0	9.71	12.74	23.23	Pass
NVNT	ac20	5600	Ant 2	9.75	0	9.75			Pass
NVNT	ac20	5700	Ant 1	9.88	0	9.88	12.91	23.23	Pass
NVNT	ac20	5700	Ant 2	9.91	0	9.91			Pass
NVNT	ac40	5510	Ant 1	9.01	0	9.01	12.16	23.23	Pass
NVNT	ac40	5510	Ant 2	9.28	0	9.28			Pass
NVNT	ac40	5590	Ant 1	9.2	0	9.2	12.26	23.23	Pass
NVNT	ac40	5590	Ant 2	9.29	0	9.29			Pass
NVNT	ac40	5670	Ant 1	9.06	0	9.06	12.09	23.23	Pass
NVNT	ac40	5670	Ant 2	9.09	0	9.09			Pass
NVNT	ac80	5530	Ant 1	8.85	0	8.85	11.74	23.23	Pass
NVNT	ac80	5530	Ant 2	8.61	0	8.61			Pass
NVNT	ac80	5610	Ant 1	8.99	0	8.99	11.86	23.23	Pass
NVNT	ac80	5610	Ant 2	8.7	0	8.7			Pass
NVNT	n20	5500	Ant 1	9.46	0	9.46	12.67	23.23	Pass
NVNT	n20	5500	Ant 2	9.86	0	9.86			Pass
NVNT	n20	5600	Ant 1	9.61	0	9.61	12.57	23.23	Pass
NVNT	n20	5600	Ant 2	9.51	0	9.51			Pass
NVNT	n20	5700	Ant 1	9.84	0	9.84	12.60	23.23	Pass
NVNT	n20	5700	Ant 2	9.32	0	9.32			Pass
NVNT	n40	5510	Ant 1	9.16	0	9.16	11.63	23.23	Pass
NVNT	n40	5510	Ant 2	9.22	0	9.22			Pass
NVNT	n40	5590	Ant 1	9.08	0	9.08	11.07	23.23	Pass
NVNT	n40	5590	Ant 2	9.21	0	9.21			Pass
NVNT	n40	5670	Ant 1	9.12	0	9.12	12.13	22.62	Pass
NVNT	n40	5670	Ant 2	9.11	0	9.11			Pass

5.8G

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Total Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant 1	9.61	0	9.61		30	Pass
NVNT	a	5785	Ant 1	9.64	0	9.64		30	Pass
NVNT	a	5825	Ant 1	9.59	0	9.59		30	Pass
NVNT	a	5745	Ant 2	9.76	0	9.76		30	Pass
NVNT	a	5785	Ant 2	9.77	0	9.77		30	Pass
NVNT	a	5825	Ant 2	9.75	0	9.75		30	Pass
NVNT	ac20	5745	Ant 1	9.29	0	9.29	12.50	29.23	Pass
NVNT	ac20	5745	Ant 2	9.68	0	9.68			Pass
NVNT	ac20	5785	Ant 1	9.79	0	9.79	12.78	29.23	Pass
NVNT	ac20	5785	Ant 2	9.75	0	9.75			Pass
NVNT	ac20	5825	Ant 1	9.33	0	9.33	12.50	29.23	Pass
NVNT	ac20	5825	Ant 2	9.65	0	9.65			Pass
NVNT	ac40	5755	Ant 1	8.83	0	8.83	12.15	29.23	Pass
NVNT	ac40	5755	Ant 2	9.43	0	9.43			Pass
NVNT	ac40	5795	Ant 1	8.84	0	8.84	12.07	29.23	Pass
NVNT	ac40	5795	Ant 2	9.27	0	9.27			Pass
NVNT	ac80	5775	Ant 1	8.52	0	8.52	11.59	29.23	Pass
NVNT	ac80	5775	Ant 2	8.63	0	8.63			Pass
NVNT	n20	5745	Ant 1	9.4	0	9.4	12.59	29.23	Pass
NVNT	n20	5745	Ant 2	9.76	0	9.76			Pass
NVNT	n20	5785	Ant 1	9.58	0	9.58	12.57	29.23	Pass
NVNT	n20	5785	Ant 2	9.54	0	9.54			Pass
NVNT	n20	5825	Ant 1	9.3	0	9.3	12.39	29.23	Pass
NVNT	n20	5825	Ant 2	9.45	0	9.45			Pass
NVNT	n40	5755	Ant 1	8.98	0	8.98	12.08	29.23	Pass
NVNT	n40	5755	Ant 2	9.15	0	9.15			Pass
NVNT	n40	5795	Ant 1	8.74	0	8.74	11.69	29.23	Pass
NVNT	n40	5795	Ant 2	8.62	0	8.62			Pass

### 3 RF Exposure Evaluation

#### 3.1 Operation in BT

Antenna	Maximum output power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	R(cm)	S (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Conclusion
Ant 1	6.25	2.69	8.94	7.834	20	0.0016	1	Pass

#### 3.2 Operation in BLE

Antenna	Maximum output power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	R(cm)	S (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Conclusion
Ant 1	4.09	2.69	6.78	4.764	20	0.0009	1	Pass

#### 3.3 Operation in WLAN 2.4G

Antenna	Maximum output power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	R(cm)	S (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Conclusion
Ant 1	16.96	6.70	23.66	232.274	20	0.0462	1	Pass

#### 3.4 Operation in WLAN 5G

Antenna	Maximum output power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	R(cm)	S (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Conclusion
Ant 1	12.91	6.77	19.68	92.897	20	0.0185	1	Pass

This product does not support the requirements under multiple sources.

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