

Antenna Gain Test Report

FCC ID: 2ABZ2-AA541

Equipment: Smart Phone

Brand name: OnePlus

Model name: CPH2551

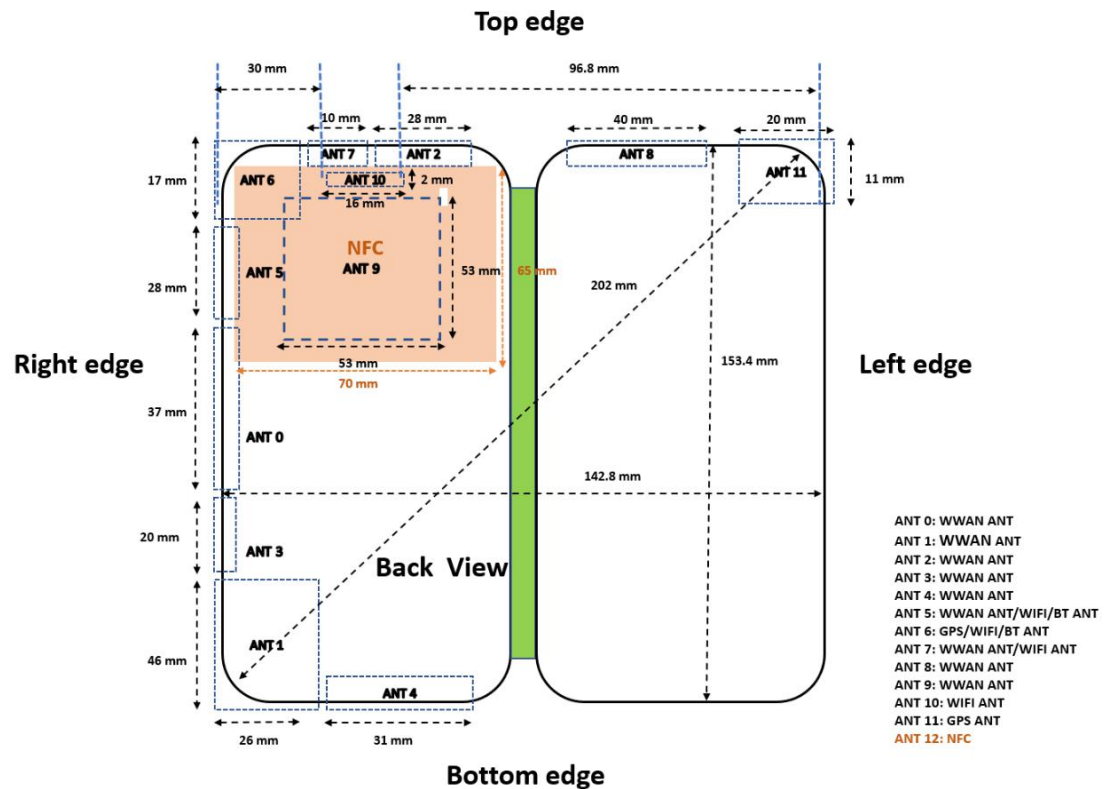
Manufacturer: OnePlus Technology (Shenzhen) Co., Ltd.

Address: 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe

Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

Issue Date: 2023-7-14

Antenna Location



Antenna	支持的频段
Ant 0	TX/RX WCDMA5/6/8/19, TX/RX LTE5/8/12/13/17/18/19/20/26/28/71/48, TX/RX NR5/8/12/20/28/71/77/78
Ant 1	TX/RX GSM850/900, WCDMA5/6/8/19, LTE5/8/12/13/17/18/19/20/26/28/71, NR5/8/12/20/28/71
Ant 2	TX/RX GSM1800/1900, WCDMA1/2/4, LTE1/2/3/4/7/25/66/38/39/40/41/48, NR1/2/3/7/25/38/40/41/66/77/78, RX LTE32
Ant 3	TX/RX GSM1800/1900, WCDMA1/2/4, LTE1/2/3/4/7/25/66/38/39/40/41/48, NR1/2/3/7/25/38/40/41/66/77/78, RX LTE32
Ant 4	TX/RX LTE1/2/3/4/7/25/30/66/38/39/40/41, NR1/2/3/7/25/30/38/40/41/66, RX LTE32
Ant 5	TX/RX LTE1/2/3/4/7/25/30/66/38/39/41, NR1/2/3/7/25/30/38/41/66, RX LTE32, WIFI2.4G/BT(not support BLE)
Ant 6	GPS L1, WIFI 2.4G/BT(support BLE)
Ant 7	TX/RX LTE48, NR77/78, RX LTE46, WIFI 5/6G
Ant 8	RX LTE28/71
Ant 9	RX LTE28/71
Ant 10	RX LTE46, WIFI 5/6G
Ant 11	GPS L5
Ant 12	NFC

Antenna Gain and Antenna Type Specification:

Antenna Gain (dBi)		Ant 0	Ant 1	Ant 2	Ant 3	Ant 4	Ant 5	Ant 6	Ant 7	Ant 8	Ant 9	Ant 10	Antenna Type
GSM 850	824 - 849 MHz		-0.5										Fixed Internal
GSM 900	880 - 915 MHz		-0.5										Fixed Internal
DCS 1800	1710 - 1785 MHz			-0.7	-1.5								Fixed Internal
PCS 1900	1850 - 1910 MHz			-1	-1.8								Fixed Internal
WCDMA band 1	1920 - 1980 MHz			-0.8	-0.7								Fixed Internal
WCDMA band 2	1850 -1910 MHz			-1	-1.8								Fixed Internal
WCDMA band 4	1710 -1755MHz			-0.7	-1.5								Fixed Internal
WCDMA band 5	824 - 849MHz	-7.1	-0.5										Fixed Internal
WCDMA band 6	830 - 840 MHz	-7.1	-0.5										Fixed Internal
WCDMA band 8	880 - 915 MHz	-7.1	-0.5										Fixed Internal
WCDMA band 19	830 - 845 MHz	-7.1	-0.5										Fixed Internal
LTE band 1	1920 - 1980 MHz			-0.8	-0.7	0.5	-1.2						Fixed Internal
LTE band 2	1850 - 1910 MHz			-1	-1.8	-2.1	-2.2						Fixed Internal
LTE band 3	1710 - 1785 MHz			-0.7	-1.5	-0.4	-3.9						Fixed Internal
LTE band 4	1710 - 1755 MHz			-0.7	-1.5	-0.4	-3.9						Fixed Internal
LTE band 5	824 - 849 MHz	-7.1	-0.5										Fixed Internal
LTE band 7	2500 - 2570 MHz			0	-0.8	0.2	-0.8						Fixed Internal
LTE band 8	880 - 915 MHz	-7.1	-0.5										Fixed Internal
LTE band 12	699 - 716 MHz	-6.5	-1.5										Fixed Internal
LTE band 13	777 - 787 MHz	-7.1	-2.5										Fixed Internal
LTE band 17	704 - 716 MHz	-6.5	-1.5										Fixed Internal
LTE band 18	815 - 830 MHz	-7.1	-0.5										Fixed Internal
LTE band 19	830 - 845 MHz	-7.1	-0.5										Fixed Internal
LTE band 20	832 - 862 MHz	-7.1	-0.5										Fixed Internal
LTE band 25	1850 - 1915 MHz			-1	-1.8	-2.1	-2.2						Fixed Internal
LTE band 26	814 - 849 MHz	-7.1	-0.5										Fixed Internal
LTE band 28	703 - 748 MHz	-6.5	-1.5										Fixed Internal
LTE band 30	2305 - 2315 MHz					0.3	-1						Fixed Internal
LTE band 38	2570 - 2620 MHz			-0.1	-0.8	0.2	-1.5						Fixed Internal
LTE band 39	1880 - 1920 MHz												Fixed Internal
LTE band 40	2300 - 2400 MHz			-1	-0.5	0.4							Fixed Internal
LTE band 41	2496 - 2690 MHz			-0.3	-0.7	0.4	-1.9						Fixed Internal
LTE band 46	5150 - 5925 MHz												Fixed Internal
LTE band 48	3550 - 3700 MHz	-6		-4.5	-3				-1.5				Fixed Internal
LTE band 66	1710 - 1780 MHz			-0.7	-1.5	-0.4	-3.9						Fixed Internal

LTE band 71	663 - 698 MHz	-7.5	-5										Fixed Internal
n1	1920 - 1980 MHz			-0.8	-0.7	0.5	-1.2						Fixed Internal
n2	1850 - 1910 MHz			-1	-1.8	-2.1	-2.2						Fixed Internal
n3	1710 - 1785 MHz			-0.7	-1.5	-0.4	-3.9						Fixed Internal
n5	824 - 849 MHz	-7.1	-0.5										Fixed Internal
n7	2500 - 2570 MHz			0	-0.8	0.2	-0.8						Fixed Internal
n8	880 - 915 MHz	-7.1	-0.5										Fixed Internal
n12	699 - 716 MHz	-6.5	-1.5										Fixed Internal
n20	832 - 862 MHz	-7.1	-0.5										Fixed Internal
n25	1850 - 1915 MHz			-1	-1.8	-2.1	-2.2						Fixed Internal
n28	703 - 748 MHz	-6.5	-1.5										Fixed Internal
n30	2305 - 2315 MHz					0.3	-1						Fixed Internal
n38	2570 - 2620 MHz			-0.1	-0.8	0.2	-1.5						Fixed Internal
n40	2300 - 2400 MHz			-1	-0.5	0.4							Fixed Internal
n41	2496 - 2690 MHz			-0.3	-0.7	0.4	-1.9						Fixed Internal
n66	1710 - 1780 MHz			-0.7	-1.5	-0.4	-3.9						Fixed Internal
n71	663 - 698 MHz	-7.2	-1.5										Fixed Internal
n77	3300 - 4200 MHz	-6		-4.5	-3				-1.5				Fixed Internal
n78	3300 - 3800 MHz	-6		-4.5	-3				-1.5				Fixed Internal
BT BLE only support in ANT6	2400~2483.5MHz						-3	-0.5					Fixed Internal
2.4G WiFi	2400~2483.5MHz						-3	-0.5					Fixed Internal
5 G WiFi B1/B2	5150~5350MHz								-1			-1.5	Fixed Internal
5 G WiFi B3/B4	5350~5850MHz								-1			-1.5	Fixed Internal
5 G WiFi B5/6/7/8	5925~7125MHz								-4.5			-1.5	Fixed Internal