



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: QISAP505130DN

Project No. : 1403C080A
Equipment : Wireless LAN Access Point
Model : AP5130DN
Applicant : Huawei Technologies Co.,Ltd.
**Address : Administration Building, Headquarters of
Huawei Technologies Co., Ltd., Bantian,
Longgang District Shenzhen China**

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000



Table for Filed Antenna:

5G

Group 1

Ant.	Manufacturer	Model Name	Antenna Type / Connector	Gain (dBi)	Note
A	中山通宇	TT-245804-6W1	DipoleAntenna	R-SMA	4.82
B	中山通宇	TT-245804-6W1	DipoleAntenna	R-SMA	4.82
C	中山通宇	TT-245804-6W1	DipoleAntenna	R-SMA	4.82

Group 2

Ant.	Manufacturer	Model Name	Antenna Type / Connector	Gain (dBi)	Note
A	三水盛路	SL10301A	DipoleAntenna	R-SMA	5.7
B	三水盛路	SL10301A	DipoleAntenna	R-SMA	5.7
C	三水盛路	SL10301A	DipoleAntenna	R-SMA	5.7

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Group 1

Ant.	Manufacturer	Model Name	Antenna Type / Connector	Gain (dBi)	Note
A	中山通宇	TT-245804-6W1	DipoleAntenna	R-SMA	3.87
B	中山通宇	TT-245804-6W1	DipoleAntenna	R-SMA	3.87
C	中山通宇	TT-245804-6W1	DipoleAntenna	R-SMA	3.87

Group 2

Ant.	Manufacturer	Model Name	Antenna Type / Connector	Gain (dBi)	Note
A	三水盛路	SL10301A	DipoleAntenna	R-SMA	3.1
B	三水盛路	SL10301A	DipoleAntenna	R-SMA	3.1
C	三水盛路	SL10301A	DipoleAntenna	R-SMA	3.1

Note: 1.The EUT incorporates a MIMO function. Physically, the EUT provides three completed three transmitters and three receivers (3T3R).

2. ANT B for 1TX was found to be the worst case and recorded.

3.Two groups of antenna used with the same type and same gain, only differ in manufacturer and model name, group 1 is tested and recorded as the worst case in this report.



TEST RESULTS

Band 1

EUT:	Wireless LAN Access Point	Model Name :	AP5130DN
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48-ANT A+B+C		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.7	3.7154	10.65	11.6145	0.00858915	1	Complies
5.7	3.7154	14.60	28.8403	0.02132801	1	Complies
5.7	3.7154	14.75	29.8538	0.02207752	1	Complies

Band 2

EUT:	Wireless LAN Access Point	Model Name :	AP5130DN
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 3/TX N20 Mode/CH52, CH56, CH64-ANT A+B+C		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.7	3.7154	14.77	29.9916	0.02217943	1	Complies
5.7	3.7154	15.79	37.9315	0.02805113	1	Complies
5.7	3.7154	9.73	9.3972	0.00694945	1	Complies



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Band 3

EUT:	Wireless LAN Access Point	Model Name :	AP5130DN
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/CH100, CH116, CH140-ANT A+B+C		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.7	3.7154	12.76	18.8799	0.01396209	1	Complies
5.7	3.7154	16.78	47.6431	0.03523306	1	Complies
5.7	3.7154	8.76	7.5162	0.00555841	1	Complies

Band 4

EUT:	Wireless LAN Access Point	Model Name :	AP5130DN
Temperature:	25 °C	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX A Mode /CH149, CH157, CH165-ANT A+B+C		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.7	3.7154	24	251.1886	0.18575922	1	Complies
5.7	3.7154	24.03	252.9298	0.18704684	1	Complies
5.7	3.7154	24.04	253.5129	0.18747802	1	Complies



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EUT:	Wireless LAN Access Point	Model Name :	AP5130DN
Temperature:	25 °C	Relative Humidity:	55 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B Mode /CH101, CH06, CH11-ANT A+B+C		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.87	2.4378	23.59	228.5599	0.11090481	1	Complies
3.87	2.4378	23.47	222.3310	0.10788234	1	Complies
3.87	2.4378	23.78	238.7811	0.11586449	1	Complies

Note: The calculated distance is 20 cm.