



Date: May 23, 2016
FCC ID: PPD-CUS227

Attestation Letter

To whom it may concern:

We, **Qualcomm Atheros, Inc.** declare that there have been no hardware changes to the device since the original approval that impact RF performance or compliance. Furthermore, we attest that the antenna type and gains listed below are the worst case for the client only module. We acknowledge that only antennas of this type (**Integrated PCB** 、 **PIFA** 、 **MONOPOLE** 、 **DIPOLE**) with equal or less gains (dBi) than shown below are permitted for use with this device without further evaluation. This device complies with all antenna limits as described in 15.247(d).

If you have any questions regarding the authorization, please don't hesitate to contact us.
Thank you!

Brand	Model	Antenna Type	Antenna gain 2.4G(dBi)	Antenna gain 5G(dBi)	Connector Type
Qualcomm	CUS227 V03-2	Integrated PCB antenna	2	3	NA

Brand	Model	Antenna Type	Connector Type	Freq. Range (MHz to MHz)	Cable Loss (dB)	Net Gain (dBi)	Cable Length (mm)
WNC	81EAAY15 .G05	PIFA	IPEX	2400~2483.5	-0.20	3.25	100
				5150~5250	-0.28	4.42	
				5250~5350	-0.28	4.27	
				5470~5725	-0.28	4.50	
				5725~5850	-0.28	4.59	
WNC	81EAAY15 .G06	MONOPOLE	IPEX	2400~2483.5	-0.20	3.15	100
				5150~5250	-0.28	2.89	
				5250~5350	-0.28	3.46	
				5470~5725	-0.28	3.79	
				5725~5850	-0.28	3.50	
WNC	81EAAY15 .G07	DIPOLE	IPEX	2400~2483.5	-0.20	3.14	100
				5150~5250	-0.28	3.95	
				5250~5350	-0.28	4.51	
				5470~5725	-0.28	4.98	
				5725~5850	-0.28	4.78	



Sincerely yours,

A handwritten signature in black ink that reads 'Stanley Lin'.

Stanley Lin, Global Product Compliance