



SPOT CHECK EVALUATION

FCC ID : S9GR550P
Equipment : Wireless Access Point
Brand Name : RUCKUS
Model Name : R550p
Applicant : Ruckus Wireless Inc.
350 W. Java Dr., Sunnyvale CA 94089 USA
Manufacturer : Ruckus Wireless Inc.
350 W. Java Dr., Sunnyvale CA 94089 USA
Standard : FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on May 09, 2021 and testing was started from May 11, 2021 and completed on May 21, 2021. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sporton International (USA) Inc.

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FCC Designation No.: US1250



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History of this test report

Version	Description	Issued Date
01	Initial issue of report	Jun. 16, 2021



1. Introduction Section

The manufacturer declares that product: Wireless Access Point, model R550p (FCC ID: S9GR550P) is electrically identical to R550 (FCC ID: S9GR550), with the same electromagnetic emissions and electromagnetic compatibility characteristics.

R550p (FCC ID: S9GR550P) is actually a depopulated version of R550 (FCC ID: S9GR550) with IoT components, including Zigbee and Bluetooth removed while WLAN remains HW identical.

The applicant takes full responsibility that the test data as referenced in this test report issued by Sporton International Inc. represent compliance for this FCC ID: S9GR550P.

Therefore, the original reports relating to WLAN of R550 (FCC ID: S9GR550) may be used as reference test data for R550p (FCC ID: S9GR550P), along with the spot check verification data following the FCC KDB 484596 D01 v01.



2. Difference Section

The difference between R550p (FCC ID: S9GR550P) and R550 (FCC ID: S9GR550) is as follows.

Difference in Hardware:

R550p Does Not support Bluetooth and Zigbee, All components relating to Bluetooth and Zigbee are depopulated. There is no difference in PCB Circuitry/Board between both R550p and R550 models.



3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition identified from the original model were performed for this filing to demonstrate the fact that the test data from the original model remains representative for the variant model.

A summary of conducted power measurement and RSE spot check for each rule entry and technology is listed below:

Summary of the spot check:

Test Item	Mode	FCC ID: S9GR550 (Lead) Worst Result	FCC ID: S9GR550P (Variant) Worst Result	Difference (dB)
Average Conducted Power (dBm)	WLAN 2.4G (MIMO)	25.74	25.72	0.2
	WLAN 5G (MIMO)	25.04	24.35	0.69
Average Radiated Spurious Emission (Band Edge) (dBuV/m)	WLAN 2.4G (MIMO)	-0.2	-0.31	0.11
	WLAN 5G (MIMO)	-0.04	-1.17	1.13
Peak Radiated Spurious Emission (Harmonic) (dBuV/m)	WLAN 2.4G (MIMO)	-28.45	-29.9	1.45
	WLAN 5G (MIMO)	-4.1	-11.08	6.98

Conclusion

Based on the conducted and RSE spot check test results, the test data from the original model is still representative for the variant model and demonstrates compliance.

The same DFS detection software is used in the variant model. Hence, there is no spot check data required for DFS.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and the test data as referenced from the reports for the parent model represent compliance of variant model with a new FCC ID.



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Original FCC ID	Original Report	Variant Model FCC ID	Variant Model Report
15C	DTS	WLAN	2400 – 2483.5	S9GR550	Part 15C (FR200117001C)	S9GR550P	Reference the original reports issued for the parent model
15E	U-NII	WLAN	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850	S9GR550	Part 15E (FR200117001D FR200117001E FR200117001F)	S9GR550P	Reference the original reports issued for the parent model
15E	U-NII	DFS	5250 – 5350 5470 – 5725	S9GR550	Part 15E (FZ200117001)	S9GR550P	Reference the original reports issued for the parent model

END of this report