Trimble

Date: Jun. 20, 2018
Federal Communications Commission
7435 Oakland Mills Road
Columbia MD 21046

C.C.: SGS Taiwan Limited

Subject: Requesting Class II permissive change for FCC ID: S9E-QCNFA324

To Whom It May Concern:

The purpose of this letter is to request a Class II Permissive change for FCC ID:
S9E-QCNFA324, Original grant date: 05/18/2018,
Applicant: Trimble Inc.

The major change filed under this application is

1. The subject approved module is being used in different host (Portable category Configuration, Host Brand/Model: Trimble /121500).

2. SAR Testing is performed to demonstrate RF Compliance.

3. The difference compared with the original design is adding 2 antennas to this EUT:

Original PIFA Antenna

Frequency (MHz)	2402~2480 Main / Aux	5150~5250 Main / Aux	5250~5350 Main / Aux	5470~5725 Main / Aux	5725~5850 Main / Aux
Peak Ant. Gain (dBi) Supplier AnJie	3.62 / 3.62	3.08 / 3.08	3.08 /3.08	4.76 / 4.76	4.76 / 4.76
	MIMO	MIMO	MIMO	MIMO	MIMO
Peak Ant. Gain (dBi) Supplier AnJie	6.63	6.09	6.09	7.77	7.77

The MIMO configuration is used as the worst case in original grant condition.

New Additional PIFA Antenna

Frequency (MHz)	2402~2480 Main / Aux	5150~5250 Main / Aux	5250~5350 Main / Aux	5470~5725 Main / Aux	5725~5850 Main / Aux
Peak Ant. Gain (dBi) Supplier AnJie	-0.67 / 0.46	1.74 / 3.95	1.96 / 3.80	2.41 / 3.93	2.92 / 3.93
	MIMO	MIMO	MIMO	MIMO	MIMO
Peak Ant. Gain (dBi) Supplier AnJie	2.94	5.99	5.99	6.25	6.46

The MIMO gain of new antenna set is lower than original one.

4. Software security remains unchanged form original application

Best Regards

_____ (Signature)

Craig Bacho / Regulatory Engineer
Trimble Inc.