SPOT CHECK EVALUATION

FCC ID	:	**A4RGTT9Q**
Equipment	:	**Phone**
Model Name	:	**GTT9Q, G5NZ6**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**47 CFR Part 2, 22(H), 24(E), 27(D), 27(L) , 90(R), 90(S), 96** **FCC Part 15 Subpart C §15.209** **FCC Part 15 Subpart C §15.225** **FCC Part 15 Subpart C §15.247** **FCC Part 15 Subpart E §15.407**

We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

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History of this test report

Version	Description	Issued Date
01	Initial issue of report	Jul. 24, 2020
02	Add description for Model name.	Aug. 04, 2020
03	Add CA band in Reference detail Section	Aug. 05, 2020
04	Add description in conclusion	Aug. 07, 2020

1. Introduction Section

FCC ID: A4RGD1YQ (original model) and FCC ID: A4RGTT9Q (variant model) are HW identical except components depopulated for Part 30 mmWave. Other than this item, the RF and antenna design is the same. Based on their similarity, the FCC Part 15C (equipment class: DCD, DTS, DSS, DXX) and FCC Part 15E (equipment class: NII) and FCC Part 22, 24, 27, 90, 96 (equipment class: PCE, CBE) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: A4RGTT9Q).

GTT9Q and G5NZ6 are identical to each other, two different model names are for marketing purpose only.

2. Model Difference Information

The difference between FCC ID: A4RGD1YQ and FCC ID: A4RGTT9Q is as below:

- NR FR2 mmWave component is depopulated.

Other than this item, all the RF and antenna design is the same.

The details of similarity and difference can be found in the confidential documents.

3. Spot Check Verification Data Section

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

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	A4RGD1YQ Parent Worst Result	A4RGTT9Q Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT-3DH1	20.93	20.95	-0.02
	BLE5.1(2Mbps)	18.60	18.50	0.10
	WLAN 2.4GHz (MIMO)	25.57	25.88	-0.31
	WLAN 5GHz (MIMO)	23.40	23.38	0.02
	WWAN GSM 850	32.94	32.80	0.14
	WWAN GSM 1900	30.28	30.36	-0.08
	WWAN CDMA BC0	24.75	24.86	-0.11
	WWAN CDMA BC1	24.77	24.80	-0.03
	WWAN CDMA BC10	24.75	24.82	-0.07
	WWAN WCDMA Band V	24.78	24.86	-0.08
	WWAN WCDMA Band II	24.87	24.80	0.07
	WWAN WCDMA Band IV	24.75	24.66	0.09
	WWAN LTE Band 2	24.84	24.89	-0.05
	WWAN LTE Band 4	24.97	24.94	0.03
	WWAN LTE Band 5	24.40	24.46	-0.06
	WWAN LTE Band 7	24.98	24.93	0.05
	WWAN LTE Band 12	24.38	24.45	-0.07
	WWAN LTE Band 13	24.52	24.56	-0.04
	WWAN LTE Band 14	24.45	24.47	-0.02
	WWAN LTE Band 17	24.38	24.45	-0.07
	WWAN LTE Band 25	24.85	24.95	-0.10
	WWAN LTE Band 26	24.39	24.36	0.03
	WWAN LTE Band 30	24.65	24.71	-0.06
	WWAN LTE Band 38	27.01	27.09	-0.08
	WWAN LTE Band 41	26.68	26.77	-0.09
	WWAN LTE Band 48	24.41	24.46	-0.05
	WWAN LTE Band 66	24.98	24.97	0.01
	WWAN LTE Band 71	24.41	24.51	-0.10
	WWAN NR n5	25.12	25.02	0.10
	WWAN NR n7	24.05	24.00	0.05
	WWAN NR n12	23.68	23.64	0.04
	WWAN NR n25	24.50	24.49	0.01
	WWAN NR n41	26.89	26.77	0.12
	WWAN NR n66	24.42	24.38	0.04
	WWAN NR n71	23.46	23.41	0.05

Test Item	Mode	A4RGD1YQ Parent Worst Result	A4RGTT9Q Variant Check Result	Difference (dB)
Field Strength (dBuV/m)	NFC 13.56MHz	19.83	19.59	0.24
	WPT 148kHz	-21.18	-25.90	4.72
Radiated Spurious Emission (dBuV/m)	BT	32.38	31.62	0.76
	BLE5.1(2Mbps)	47.67	47.32	0.35
	WLAN 2.4GHz (MIMO)	53.14	52.03	1.11
	WLAN 5GHz (MIMO)	66.62	66.30	0.32
	NFC 13.56MHz	38.37	38.02	0.35
	WPT 148kHz	32.16	33.61	-1.45
Radiated Spurious Emission (dBm)	WWAN GSM 850	-37.80	-39.65	1.85
	WWAN GSM 1900	-37.11	-35.58	-1.53
	WWAN CDMA BC0	-45.88	-55.34	9.46
	WWAN CDMA BC1	-39.42	-44.69	5.27
	WWAN CDMA BC10	-30.79	-38.11	7.32
	WWAN WCDMA Band V	-46.90	-51.16	4.26
	WWAN WCDMA Band II	-44.31	-45.23	0.92
	WWAN WCDMA Band IV	-44.47	-46.89	2.42
	WWAN LTE Band 2	-44.34	-43.35	-0.99
	WWAN LTE Band 7	-38.77	-39.15	0.38
	WWAN LTE Band 12	-49.23	-48.26	-0.97
	WWAN LTE Band 13	-46.43	-45.78	-0.65
	WWAN LTE Band 14	-46.69	-46.42	-0.27
	WWAN LTE Band 26	-44.97	-49.74	4.77
	WWAN LTE Band 30	-47.41	-50.99	3.58
	WWAN LTE Band 41	-35.87	-34.63	-1.24
	WWAN LTE Band 48	-48.37	-50.75	2.38
	WWAN LTE Band 66	-37.28	-44.95	7.67
	WWAN LTE Band 71	-47.98	-46.96	-1.02
	WWAN NR n5	-33.70	-35.43	1.73
	WWAN NR n7	-28.11	-33.91	5.80
	WWAN NR n12	-45.36	-46.28	0.92
	WWAN NR n25	-27.64	-29.44	1.80
	WWAN NR n41	-35.62	-42.14	6.52
	WWAN NR n66	-44.90	-46.31	1.41
	WWAN NR n71	-35.69	-36.36	0.67

Conclusion:

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

We are using power and ERP/EIRP measurements from the original parent model reports to list on the grant.

The same DFS detection mechanism/software is used in the variant since there is no spot check data for DFS.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and take full responsibility that the test data as referenced rom the parent model report represents compliance for the new FCC ID.

SAR testing, including the Part 2 Qualcomm Smart Transmit evaluation has been fully tested on the variant model.

4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)
15C	DSS	Bluetooth	2400~2483.5	A4RGD1YQ	Original Grant	FR011718-01A	A4RGTT9Q
	DTS	BLE Wi-Fi	2400~2483.5	A4RGD1YQ	Original Grant	FR011718-01B FR011718-01C	A4RGTT9Q
	DXX	NFC	13.56	A4RGD1YQ	Original Grant	FR011718-01D	A4RGTT9Q
	DCD	WPT	0.11~0.148	A4RGD1YQ	Original Grant	FR011718-01H	A4RGTT9Q
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	A4RGD1YQ	Original Grant	FR011718-01E FR011718-01F FR011718-01G	A4RGTT9Q
		DFS	5250~5350 5470~5725	A4RGD1YQ	Original Grant	FZ011718-01	A4RGTT9Q
22, 24, 27, 90, 96	PCE CBE	GSM	GSM 850/1900	A4RGD1YQ	Original Grant	FG011718-01A	A4RGTT9Q
		WCDMA	Band II, IV, V	A4RGD1YQ	Original Grant	FG011718-01A	A4RGTT9Q
		CDMA	BC0/BC1/ BC10	A4RGD1YQ	Original Grant	FG011718-01A FG011718-01G	A4RGTT9Q
		LTE	B2/4/5/7/12/13 /14/17/25/26/ 30/38/41/48/66 /71 ULCA 5B/7C/ 41C/48C/66B/ 66C	A4RGD1YQ	Original Grant	FG011718-01B FG011718-01D FG011718-01E FG011718-01F FG011718-01I FG011718-01J	A4RGTT9Q
		NR (EN-DC)	n5/n7/ n12/n25/ n41/n66/n71	A4RGD1YQ	Original Grant	FG011718-01C	A4RGTT9Q

END of this report