A Test Lab Techno Corp.

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MPE Report

Test Report No.	：	1709FS13
Applicant	：	D-Link Corporation
Product Type	：	Wireless AC1200 4G LTE Router
Trade Name	：	D-Link
Model Number	：	DWR-961
Date of Received	：	Aug. 18, 2017
Test Period	：	Sep. 06~ Sep. 13, 2017
Date of Issued	：	Oct. 03, 2017
Test Specification	：	ANSI / IEEE Std.C95.1-1992 / IEEE Std. 1528-2013
		47 CFR § 2.1091
		47 CFR § 1.1310
Location of Test Lab.	：	Chang-an Lab.

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
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4. This document may be altered or revised by A Test Lab Techno. Corp. personnel only, and shall be noted in the revision section of the document.

Approved By ： (Mark Duan)　　Tested By ： (Sky Chou)

Contents

1. Description of Equipment under Test (EUT)

Applicant	D-Link Corporation 17595 Mt. Herrmann, Fountain Valley, California, 92708, United States	
Manufacturer	CAMEO COMMUNICATIONS,INC. 5F, No.158, Ruihu St., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)	
Product Type	Wireless AC1200 4G LTE Router	
Trade Name	D-Link	
Model Number	DWR-961	
FCC ID	KA2WR961C1	
IMEI No.	359073060110107	
Frequency Range	Operate Band	Frequency Range (MHz)
	LTE Band 2 (1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz)	1850.7 - 1909.3
	LTE Band 4 (1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz)	1710.7 - 1754.3
	LTE Band 5 (1.4M, 3M, 5MHz, 10MHz)	824.7 - 848.3
	LTE Band 12 (1.4M, 3M, 5MHz, 10MHz)	699 - 716
	IEEE 802.11b / 802.11g IEEE 802.11n 2.4GHz 20MHz	2412 - 2462
	IEEE 802.11n 2.4GHz 40 MHz	2422 - 2452
	IEEE 802.11a U-NII Band I	5180 - 5240
	IEEE 802.11a U-NII Band III	5745 - 5825
	IEEE 802.1ac / 802.11n 5GHz 20MHz U-NII Band I	5180 - 5240
	IEEE 802.1ac / 802.11n 5GHz 20MHz U-NII Band III	5745 - 5825
	IEEE 802.1ac / 802.11n 5GHz 40MHz U-NII Band I	5190 - 5230
	IEEE 802.1ac / 802.11n 5GHz 40MHz U-NII Band III	5755 - 5795
	IEEE 802.11ac 80MHz U-NII Band I	5210
	IEEE 802.11ac 80MHz U-NII Band III	5775

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<tr><td rowspan="14">Antenna information</td><td>ANT</td><td>Type</td><td>Band</td><td colspan="2">Max. Gain (dBi)</td></tr>
<tr><td rowspan="4">Main</td><td rowspan="4">External Antenna</td><td>LTE Band 2</td><td colspan="2">3.01</td></tr>
<tr><td>LTE Band 4</td><td colspan="2">3.02</td></tr>
<tr><td>LTE Band 5</td><td colspan="2">2.39</td></tr>
<tr><td>LTE Band 12</td><td colspan="2">1.20</td></tr>
<tr><td rowspan="4">Diversity</td><td rowspan="4">External Antenna</td><td>LTE Band 2</td><td colspan="2">3.02</td></tr>
<tr><td>LTE Band 4</td><td colspan="2">3.02</td></tr>
<tr><td>LTE Band 5</td><td colspan="2">1.04</td></tr>
<tr><td>LTE Band 12</td><td colspan="2">-1.35</td></tr>
<tr><td rowspan="2">ANT</td><td rowspan="2">Model</td><td rowspan="2">Type</td><td colspan="2">Max. Gain (dBi)</td></tr>
<tr><td>2.4GHz</td><td>5GHz</td></tr>
<tr><td>ANT-0</td><td>WIESON</td><td>Internal type Antenna</td><td>2.30</td><td>3.01</td></tr>
<tr><td>ANT-1</td><td>WIESON</td><td>Internal type Antenna</td><td>3.03</td><td>3.07</td></tr>
<tr><td colspan="3">G_{ANT}</td><td>2.68</td><td>3.04</td></tr>
<tr><td>Antenna Delivery</td><td colspan="5">2TX (CDD) for WLAN</td></tr>
<tr><td>RF Evaluation</td><td colspan="5">0.284 mW/cm^2</td></tr>
<tr><td>Operate Temp. Range</td><td colspan="5">0 ~ 40 ℃</td></tr>
</table>

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 / 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties

2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR § 1.1310 titled “Radiofrequency radiation exposure limits”, generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as “a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter’s radiating structure(s) and the body of the user or nearby persons. ” This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: “IMPORTANT: To meet the FCC’s RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna”. Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a “mobile device” as defined in section § 2.1091 paragraph (b).

Exposure evaluation
$$S = \frac{PG}{4\pi R^2}$$ Where S: power density P: power input to the antenna G: power gain of the antenna in the direction of interest relative to an isotropic radiator. R: distance to the center of radiation of the antenna.

3. RF Output Power

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	1.4MHz	QPSK	18607	1850.7	1	0	22.49	0.177
					1	2	22.58	0.181
					1	5	22.52	0.179
					3	0	22.44	0.175
					3	1	22.56	0.180
					3	3	22.46	0.176
					6	0	21.46	0.140
			18900	1880.0	1	0	22.54	0.179
					1	2	22.49	0.177
					1	5	22.47	0.177
					3	0	22.38	0.173
					3	1	22.47	0.177
					3	3	22.40	0.174
					6	0	21.38	0.137
			19193	1909.3	1	0	22.53	0.179
					1	2	**22.61**	**0.182**
					1	5	22.47	0.177
					3	0	22.45	0.176
					3	1	22.59	0.182
					3	3	22.51	0.178
					6	0	21.45	0.140
		16QAM	18607	1850.7	1	0	21.65	0.146
					1	2	21.77	0.150
					1	5	21.80	0.151
					3	0	21.63	0.146
					3	1	21.65	0.146
					3	3	21.64	0.146
					6	0	20.56	0.114
			18900	1880.0	1	0	21.69	0.148
					1	2	21.72	0.149
					1	5	21.77	0.150
					3	0	21.51	0.142
					3	1	21.56	0.143
					3	3	21.54	0.143
					6	0	20.46	0.111
			19193	1909.3	1	0	21.73	0.149
					1	2	21.79	0.151
					1	5	21.80	0.151
					3	0	21.62	0.145
					3	1	21.63	0.146
					3	3	21.63	0.146
					6	0	20.69	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	3MHz	QPSK	18615	1851.5	1	0	22.65	0.184
					1	7	**22.75**	**0.188**
					1	14	22.67	0.185
					8	0	21.52	0.142
					8	3	21.55	0.143
					8	7	21.54	0.143
					15	0	21.54	0.143
			18900	1880.0	1	0	22.48	0.177
					1	7	22.43	0.175
					1	14	22.48	0.177
					8	0	21.42	0.139
					8	3	21.48	0.141
					8	7	21.46	0.140
					15	0	21.48	0.141
			19185	1908.5	1	0	22.49	0.177
					1	7	22.58	0.181
					1	14	22.55	0.180
					8	0	21.48	0.141
					8	3	21.57	0.144
					8	7	21.59	0.144
					15	0	21.51	0.142
		16QAM	18615	1851.5	1	0	21.93	0.156
					1	7	21.95	0.157
					1	14	21.83	0.152
					8	0	20.56	0.114
					8	3	20.59	0.115
					8	7	20.61	0.115
					15	0	20.50	0.112
			18900	1880.0	1	0	21.79	0.151
					1	7	21.92	0.156
					1	14	21.74	0.149
					8	0	20.45	0.111
					8	3	20.46	0.111
					8	7	20.45	0.111
					15	0	20.42	0.110
			19185	1908.5	1	0	21.70	0.148
					1	7	21.83	0.152
					1	14	21.82	0.152
					8	0	20.51	0.112
					8	3	20.59	0.115
					8	7	20.59	0.115
					15	0	20.48	0.112

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	5MHz	QPSK	18625	1852.5	1	0	**22.63**	**0.183**
					1	12	22.49	0.177
					1	24	22.59	0.182
					12	0	21.62	0.145
					12	6	21.67	0.147
					12	13	21.68	0.147
					25	0	21.60	0.145
			18900	1880.0	1	0	22.50	0.178
					1	12	22.38	0.173
					1	24	22.59	0.182
					12	0	21.47	0.140
					12	6	21.48	0.141
					12	13	21.50	0.141
					25	0	21.43	0.139
			19175	1907.5	1	0	22.60	0.182
					1	12	22.40	0.174
					1	24	22.53	0.179
					12	0	21.50	0.141
					12	6	21.51	0.142
					12	13	21.50	0.141
					25	0	21.49	0.141
		16QAM	18625	1852.5	1	0	21.86	0.153
					1	12	21.95	0.157
					1	24	21.79	0.151
					12	0	20.66	0.116
					12	6	20.62	0.115
					12	13	20.64	0.116
					25	0	20.61	0.115
			18900	1880.0	1	0	21.76	0.150
					1	12	21.83	0.152
					1	24	21.78	0.151
					12	0	20.49	0.112
					12	6	20.49	0.112
					12	13	20.49	0.112
					25	0	20.43	0.110
			19175	1907.5	1	0	21.87	0.154
					1	12	21.83	0.152
					1	24	21.87	0.154
					12	0	20.55	0.114
					12	6	20.56	0.114
					12	11	20.56	0.114
					25	0	20.52	0.113

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	10MHz	QPSK	18650	1855.0	1	0	22.65	0.184
					1	24	22.68	0.185
					1	49	22.62	0.183
					25	0	21.52	0.142
					25	12	21.56	0.143
					25	25	21.48	0.141
					50	0	21.57	0.144
			18900	1880.0	1	0	22.52	0.179
					1	24	22.56	0.180
					1	49	22.50	0.178
					25	0	21.48	0.141
					25	12	21.45	0.140
					25	25	21.57	0.144
					50	0	21.46	0.140
			19150	1905.0	1	0	22.65	0.184
					1	24	**22.74**	**0.188**
					1	49	22.56	0.180
					25	0	21.59	0.144
					25	12	21.65	0.146
					25	25	21.51	0.142
					50	0	21.63	0.146
		16QAM	18650	1855.0	1	0	21.83	0.152
					1	24	21.79	0.151
					1	49	21.72	0.149
					25	0	20.58	0.114
					25	12	20.60	0.115
					25	25	20.52	0.113
					50	0	20.59	0.115
			18900	1880.0	1	0	21.64	0.146
					1	24	21.68	0.147
					1	49	21.73	0.149
					25	0	20.49	0.112
					25	12	20.46	0.111
					25	25	20.56	0.114
					50	0	20.47	0.111
			19150	1905.0	1	0	21.65	0.146
					1	24	21.82	0.152
					1	49	21.72	0.149
					25	0	20.59	0.115
					25	12	20.63	0.116
					25	25	20.59	0.115
					50	0	20.68	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	15MHz	QPSK	18675	1857.5	1	0	22.63	0.183
					1	37	22.58	0.181
					1	74	22.33	0.171
					36	0	21.65	0.146
					36	19	21.66	0.147
					36	39	21.45	0.140
					75	0	21.48	0.141
			18900	1880.0	1	0	22.54	0.179
					1	37	**22.72**	**0.187**
					1	74	22.40	0.174
					36	0	21.65	0.146
					36	19	21.71	0.148
					36	39	21.62	0.145
					75	0	21.62	0.145
			19125	1902.5	1	0	22.66	0.185
					1	37	22.68	0.185
					1	74	22.62	0.183
					36	0	21.69	0.148
					36	19	21.86	0.153
					36	39	21.71	0.148
					75	0	21.74	0.149
		16QAM	18675	1857.5	1	0	21.94	0.156
					1	37	21.92	0.156
					1	74	21.64	0.146
					36	0	20.62	0.115
					36	19	20.60	0.115
					36	39	20.50	0.112
					75	0	20.52	0.113
			18900	1880.0	1	0	21.82	0.152
					1	37	21.91	0.155
					1	74	21.70	0.148
					36	0	20.61	0.115
					36	19	20.68	0.117
					36	39	20.63	0.116
					75	0	20.56	0.114
			19125	1902.5	1	0	21.88	0.154
					1	37	21.92	0.156
					1	74	21.86	0.153
					36	0	20.70	0.117
					36	19	20.86	0.122
					36	39	20.65	0.116
					75	0	20.64	0.116

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	20MHz	QPSK	18700	1860.0	1	0	22.63	0.183
					1	49	22.58	0.181
					1	99	22.27	0.169
					50	0	21.57	0.144
					50	25	21.60	0.145
					50	50	21.44	0.139
					100	0	21.53	0.142
			18900	1880.0	1	0	22.55	0.180
					1	49	22.70	0.186
					1	99	22.36	0.172
					50	0	21.68	0.147
					50	25	21.75	0.150
					50	50	21.62	0.145
					100	0	21.66	0.147
			19100	1900.0	1	0	22.60	0.182
					1	49	**22.71**	**0.187**
					1	99	22.45	0.176
					50	0	21.73	0.149
					50	25	21.78	0.151
					50	50	21.58	0.144
					100	0	21.64	0.146
		16QAM	18700	1860.0	1	0	21.77	0.150
					1	49	21.80	0.151
					1	99	21.32	0.136
					50	0	20.55	0.114
					50	25	20.61	0.115
					50	50	20.45	0.111
					100	0	20.59	0.115
			18900	1880.0	1	0	21.78	0.151
					1	49	21.98	0.158
					1	99	21.62	0.145
					50	0	20.70	0.117
					50	25	20.72	0.118
					50	50	20.62	0.115
					100	0	20.62	0.115
			19100	1900.0	1	0	21.74	0.149
					1	49	21.84	0.153
					1	99	21.64	0.146
					50	0	20.59	0.115
					50	25	20.64	0.116
					50	50	20.55	0.114
					100	0	20.63	0.116

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	1.4MHz	QPSK	19957	1710.7	1	0	23.01	0.200
					1	2	**23.07**	**0.203**
					1	5	22.95	0.197
					3	0	22.82	0.191
					3	1	22.99	0.199
					3	3	22.86	0.193
					6	0	21.92	0.156
			20175	1732.5	1	0	22.71	0.187
					1	2	22.82	0.191
					1	5	22.75	0.188
					3	0	22.70	0.186
					3	1	22.79	0.190
					3	3	22.67	0.185
					6	0	21.62	0.145
			20393	1754.3	1	0	22.82	0.191
					1	2	22.82	0.191
					1	5	22.73	0.187
					3	0	22.71	0.187
					3	1	22.79	0.190
					3	3	22.71	0.187
					6	0	21.68	0.147
		16QAM	19957	1710.7	1	0	22.18	0.165
					1	2	22.34	0.171
					1	5	22.32	0.171
					3	0	21.98	0.158
					3	1	22.11	0.163
					3	3	22.05	0.160
					6	0	20.98	0.125
			20175	1732.5	1	0	21.96	0.157
					1	2	22.04	0.160
					1	5	21.98	0.158
					3	0	21.81	0.152
					3	1	21.84	0.153
					3	3	21.79	0.151
					6	0	20.66	0.116
			20393	1754.3	1	0	22.01	0.159
					1	2	22.05	0.160
					1	5	22.15	0.164
					3	0	21.85	0.153
					3	1	21.87	0.154
					3	3	21.88	0.154
					6	0	20.74	0.119

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	3MHz	QPSK	19965	1711.5	1	0	22.94	0.197
					1	7	**23.08**	**0.203**
					1	14	22.99	0.199
					8	0	21.95	0.157
					8	3	21.94	0.156
					8	7	21.97	0.157
					15	0	22.04	0.160
			20175	1732.5	1	0	22.85	0.193
					1	7	22.78	0.190
					1	14	22.69	0.186
					8	0	21.77	0.150
					8	3	21.69	0.148
					8	7	21.67	0.147
					15	0	21.68	0.147
			20385	1753.5	1	0	22.76	0.189
					1	7	22.82	0.191
					1	14	22.80	0.191
					8	0	21.75	0.150
					8	3	21.77	0.150
					8	7	21.73	0.149
					15	0	21.77	0.150
		16QAM	19965	1711.5	1	0	22.27	0.169
					1	7	22.49	0.177
					1	14	22.28	0.169
					8	0	20.97	0.125
					8	3	20.93	0.124
					8	7	20.96	0.125
					15	0	20.93	0.124
			20175	1732.5	1	0	22.01	0.159
					1	7	22.26	0.168
					1	14	21.96	0.157
					8	0	20.80	0.120
					8	3	20.70	0.117
					8	7	20.68	0.117
					15	0	20.63	0.116
			20385	1753.5	1	0	22.03	0.160
					1	7	22.28	0.169
					1	14	21.93	0.156
					8	0	20.73	0.118
					8	3	20.76	0.119
					8	7	20.74	0.119
					15	0	20.72	0.118

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	5MHz	QPSK	19975	1712.5	1	0	**23.03**	**0.201**
					1	12	22.85	0.193
					1	24	23.01	0.200
					12	0	21.87	0.154
					12	6	21.91	0.155
					12	13	21.84	0.153
					25	0	21.89	0.155
			20175	1732.5	1	0	22.79	0.190
					1	12	22.64	0.184
					1	24	22.71	0.187
					12	0	21.66	0.147
					12	6	21.67	0.147
					12	13	21.66	0.147
					25	0	21.65	0.146
			20375	1752.5	1	0	22.85	0.193
					1	12	22.77	0.189
					1	24	22.84	0.192
					12	0	21.87	0.154
					12	6	21.83	0.152
					12	13	21.80	0.151
					25	0	21.84	0.153
		16QAM	19975	1712.5	1	0	22.18	0.165
					1	12	22.30	0.170
					1	24	22.22	0.167
					12	0	20.86	0.122
					12	6	20.89	0.123
					12	13	20.88	0.122
					25	0	20.86	0.122
			20175	1732.5	1	0	22.02	0.159
					1	12	22.16	0.164
					1	24	21.91	0.155
					12	0	20.69	0.117
					12	6	20.65	0.116
					12	13	20.70	0.117
					25	0	20.67	0.117
			20375	1752.5	1	0	22.04	0.160
					1	12	22.39	0.173
					1	24	21.98	0.158
					12	0	20.84	0.121
					12	6	20.81	0.121
					12	11	20.77	0.119
					25	0	20.80	0.120

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	10MHz	QPSK	20000	1715.0	1	0	23.09	0.204
					1	24	**23.11**	**0.205**
					1	49	22.98	0.199
					25	0	22.00	0.158
					25	12	21.95	0.157
					25	25	21.83	0.152
					50	0	21.94	0.156
			20175	1732.5	1	0	22.85	0.193
					1	24	22.85	0.193
					1	49	22.67	0.185
					25	0	21.71	0.148
					25	12	21.75	0.150
					25	25	21.65	0.146
					50	0	21.66	0.147
			20350	1750.0	1	0	23.00	0.200
					1	24	22.90	0.195
					1	49	22.67	0.185
					25	0	21.70	0.148
					25	12	21.76	0.150
					25	25	21.72	0.149
					50	0	21.67	0.147
		16QAM	20000	1715.0	1	0	22.18	0.165
					1	24	22.11	0.163
					1	49	22.03	0.160
					25	0	20.94	0.124
					25	12	20.91	0.123
					25	25	20.86	0.122
					50	0	20.87	0.122
			20175	1732.5	1	0	21.98	0.158
					1	24	21.93	0.156
					1	49	21.79	0.151
					25	0	20.70	0.117
					25	12	20.77	0.119
					25	25	20.68	0.117
					50	0	20.67	0.117
			20350	1750.0	1	0	21.99	0.158
					1	24	21.89	0.155
					1	49	21.83	0.152
					25	0	20.67	0.117
					25	12	20.72	0.118
					25	25	20.72	0.118
					50	0	20.66	0.116

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	15MHz	QPSK	20025	1717.5	1	0	**22.91**	**0.195**
					1	37	22.70	0.186
					1	74	22.66	0.185
					36	0	21.93	0.156
					36	19	21.90	0.155
					36	39	21.91	0.155
					75	0	21.87	0.154
			20175	1732.5	1	0	22.86	0.193
					1	37	22.76	0.189
					1	74	22.48	0.177
					36	0	21.74	0.149
					36	19	21.79	0.151
					36	39	21.65	0.146
					75	0	21.74	0.149
			20325	1747.5	1	0	22.76	0.189
					1	37	22.76	0.189
					1	74	22.49	0.177
					36	0	21.78	0.151
					36	19	21.76	0.150
					36	39	21.66	0.147
					75	0	21.77	0.150
		16QAM	20025	1717.5	1	0	22.23	0.167
					1	37	22.14	0.164
					1	74	21.92	0.156
					36	0	20.89	0.123
					36	19	20.87	0.122
					36	39	20.86	0.122
					75	0	20.87	0.122
			20175	1732.5	1	0	22.05	0.160
					1	37	21.88	0.154
					1	74	21.70	0.148
					36	0	20.70	0.117
					36	19	20.76	0.119
					36	39	20.63	0.116
					75	0	20.68	0.117
			20325	1747.5	1	0	22.01	0.159
					1	37	21.90	0.155
					1	74	21.78	0.151
					36	0	20.72	0.118
					36	19	20.75	0.119
					36	39	20.60	0.115
					75	0	20.73	0.118

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	20MHz	QPSK	20050	1720.0	1	0	22.86	0.193
					1	49	**22.89**	**0.195**
					1	99	22.50	0.178
					50	0	21.85	0.153
					50	25	21.99	0.158
					50	50	21.81	0.152
					100	0	21.87	0.154
			20175	1732.5	1	0	22.72	0.187
					1	49	22.76	0.189
					1	99	22.39	0.173
					50	0	21.81	0.152
					50	25	21.72	0.149
					50	50	21.64	0.146
					100	0	21.75	0.150
			20300	1745.0	1	0	22.72	0.187
					1	49	22.79	0.190
					1	99	22.39	0.173
					50	0	21.80	0.151
					50	25	21.75	0.150
					50	50	21.68	0.147
					100	0	21.72	0.149
		16QAM	20050	1720.0	1	0	22.08	0.161
					1	49	22.10	0.162
					1	99	21.62	0.145
					50	0	20.79	0.120
					50	25	20.96	0.125
					50	50	20.75	0.119
					100	0	20.91	0.123
			20175	1732.5	1	0	21.86	0.153
					1	49	21.94	0.156
					1	99	21.54	0.143
					50	0	20.76	0.119
					50	25	20.70	0.117
					50	50	20.64	0.116
					100	0	20.74	0.119
			20300	1745.0	1	0	21.90	0.155
					1	49	21.98	0.158
					1	99	21.60	0.145
					50	0	20.80	0.120
					50	25	20.73	0.118
					50	50	20.64	0.116
					100	0	20.69	0.117

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band5	1.4MHz	QPSK	20407	824.7	1	0	22.84	0.192
					1	2	22.87	0.194
					1	5	22.78	0.190
					3	0	22.77	0.189
					3	1	22.86	0.193
					3	3	22.70	0.186
					6	0	21.71	0.148
			20525	836.5	1	0	**22.91**	**0.195**
					1	2	22.89	0.195
					1	5	22.79	0.190
					3	0	22.72	0.187
					3	1	22.81	0.191
					3	3	22.76	0.189
					6	0	21.74	0.149
			20643	848.3	1	0	22.88	0.194
					1	2	22.86	0.193
					1	5	22.64	0.184
					3	0	22.80	0.191
					3	1	22.89	0.195
					3	3	22.76	0.189
					6	0	21.79	0.151
		16QAM	20407	824.7	1	0	22.01	0.159
					1	2	22.05	0.160
					1	5	22.02	0.159
					3	0	21.94	0.156
					3	1	21.92	0.156
					3	3	21.86	0.153
					6	0	20.78	0.120
			20525	836.5	1	0	22.08	0.161
					1	2	22.07	0.161
					1	5	22.20	0.166
					3	0	21.92	0.156
					3	1	21.95	0.157
					3	3	21.91	0.155
					6	0	20.80	0.120
			20643	848.3	1	0	22.18	0.165
					1	2	22.17	0.165
					1	5	22.01	0.159
					3	0	21.98	0.158
					3	1	22.04	0.160
					3	3	21.96	0.157
					6	0	20.83	0.121

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band5	3MHz	QPSK	20415	825.5	1	0	22.72	0.187
					1	7	**22.95**	**0.197**
					1	14	22.74	0.188
					8	0	21.72	0.149
					8	3	21.79	0.151
					8	7	21.66	0.147
					15	0	21.73	0.149
			20525	836.5	1	0	22.81	0.191
					1	7	22.94	0.197
					1	14	22.77	0.189
					8	0	21.75	0.150
					8	3	21.81	0.152
					8	7	21.72	0.149
					15	0	21.73	0.149
			20635	847.5	1	0	22.78	0.190
					1	7	22.93	0.196
					1	14	22.74	0.188
					8	0	21.83	0.152
					8	3	21.89	0.155
					8	7	21.90	0.155
					15	0	21.83	0.152
		16QAM	20415	825.5	1	0	22.05	0.160
					1	7	22.16	0.164
					1	14	22.07	0.161
					8	0	20.76	0.119
					8	3	20.83	0.121
					8	7	20.74	0.119
					15	0	20.71	0.118
			20525	836.5	1	0	22.01	0.159
					1	7	22.23	0.167
					1	14	22.04	0.160
					8	0	20.74	0.119
					8	3	20.77	0.119
					8	7	20.77	0.119
					15	0	20.72	0.118
			20635	847.5	1	0	22.03	0.160
					1	7	22.26	0.168
					1	14	21.99	0.158
					8	0	20.87	0.122
					8	3	20.88	0.122
					8	7	20.88	0.122
					15	0	20.77	0.119

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band5	5MHz	QPSK	20425	826.5	1	0	22.69	0.186
					1	12	22.69	0.186
					1	24	22.65	0.184
					12	0	21.71	0.148
					12	6	21.74	0.149
					12	13	21.75	0.150
					25	0	21.76	0.150
			20525	836.5	1	0	22.71	0.187
					1	12	22.80	0.191
					1	24	22.83	0.192
					12	0	21.70	0.148
					12	6	21.76	0.150
					12	13	21.70	0.148
					25	0	21.82	0.152
			20625	846.5	1	0	**22.87**	**0.194**
					1	12	22.67	0.185
					1	24	22.78	0.190
					12	0	21.87	0.154
					12	6	21.84	0.153
					12	13	21.73	0.149
					25	0	21.82	0.152
		16QAM	20425	826.5	1	0	22.25	0.168
					1	12	21.74	0.149
					1	24	22.25	0.168
					12	0	20.75	0.119
					12	6	20.78	0.120
					12	13	20.80	0.120
					25	0	20.74	0.119
			20525	836.5	1	0	22.29	0.169
					1	12	22.23	0.167
					1	24	22.20	0.166
					12	0	20.71	0.118
					12	6	20.79	0.120
					12	13	20.74	0.119
					25	0	20.81	0.121
			20625	846.5	1	0	22.26	0.168
					1	12	22.28	0.169
					1	24	22.07	0.161
					12	0	20.87	0.122
					12	6	20.82	0.121
					12	11	20.84	0.121
					25	0	20.81	0.121

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band5	10MHz	QPSK	20450	829.0	1	0	22.84	0.192
					1	24	22.75	0.188
					1	49	22.66	0.185
					25	0	21.76	0.150
					25	12	21.82	0.152
					25	25	21.70	0.148
					50	0	21.65	0.146
			20525	836.5	1	0	22.89	0.195
					1	24	22.85	0.193
					1	49	22.80	0.191
					25	0	21.71	0.148
					25	12	21.83	0.152
					25	25	21.74	0.149
					50	0	21.70	0.148
			20600	844.0	1	0	22.82	0.191
					1	24	**22.97**	**0.198**
					1	49	22.83	0.192
					25	0	21.85	0.153
					25	12	21.84	0.153
					25	25	21.84	0.153
					50	0	21.90	0.155
		16QAM	20450	829.0	1	0	22.16	0.164
					1	24	22.02	0.159
					1	49	21.85	0.153
					25	0	20.70	0.117
					25	12	20.72	0.118
					25	25	20.62	0.115
					50	0	20.68	0.117
			20525	836.5	1	0	22.12	0.163
					1	24	22.02	0.159
					1	49	22.12	0.163
					25	0	20.69	0.117
					25	12	20.83	0.121
					25	25	20.74	0.119
					50	0	20.71	0.118
			20600	844.0	1	0	22.13	0.163
					1	24	22.15	0.164
					1	49	22.16	0.164
					25	0	20.88	0.122
					25	12	20.86	0.122
					25	25	20.87	0.122
					50	0	20.91	0.123

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	1.4MHz	QPSK	23017	699.7	1	0	**22.98**	**0.199**
					1	2	22.89	0.195
					1	5	22.92	0.196
					3	0	22.72	0.187
					3	1	22.86	0.193
					3	3	22.70	0.186
					6	0	21.71	0.148
			23095	707.5	1	0	22.96	0.198
					1	2	22.88	0.194
					1	5	22.86	0.193
					3	0	22.75	0.188
					3	1	22.81	0.191
					3	3	22.77	0.189
					6	0	21.68	0.147
			23173	715.3	1	0	22.82	0.191
					1	2	22.80	0.191
					1	5	22.65	0.184
					3	0	22.68	0.185
					3	1	22.79	0.190
					3	3	22.61	0.182
					6	0	21.53	0.142
		16QAM	23017	699.7	1	0	22.28	0.169
					1	2	22.32	0.171
					1	5	22.36	0.172
					3	0	21.92	0.156
					3	1	21.97	0.157
					3	3	21.93	0.156
					6	0	20.74	0.119
			23095	707.5	1	0	22.20	0.166
					1	2	22.11	0.163
					1	5	22.20	0.166
					3	0	21.87	0.154
					3	1	21.85	0.153
					3	3	21.91	0.155
					6	0	20.81	0.121
			23173	715.3	1	0	22.14	0.164
					1	2	21.97	0.157
					1	5	22.07	0.161
					3	0	21.80	0.151
					3	1	21.84	0.153
					3	3	21.69	0.148
					6	0	20.86	0.122

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	3MHz	QPSK	23025	700.5	1	0	22.87	0.194
					1	7	22.93	0.196
					1	14	22.85	0.193
					8	0	21.77	0.150
					8	3	21.77	0.150
					8	7	21.69	0.148
					15	0	21.79	0.151
			23095	707.5	1	0	22.76	0.189
					1	7	**22.99**	**0.199**
					1	14	22.74	0.188
					8	0	21.75	0.150
					8	3	21.80	0.151
					8	7	21.73	0.149
					15	0	21.71	0.148
			23165	714.5	1	0	22.59	0.182
					1	7	22.97	0.198
					1	14	22.62	0.183
					8	0	21.68	0.147
					8	3	21.70	0.148
					8	7	21.75	0.150
					15	0	21.68	0.147
		16QAM	23025	700.5	1	0	22.14	0.164
					1	7	22.35	0.172
					1	14	22.10	0.162
					8	0	20.80	0.120
					8	3	20.80	0.120
					8	7	20.76	0.119
					15	0	20.74	0.119
			23095	707.5	1	0	22.11	0.163
					1	7	22.39	0.173
					1	14	21.99	0.158
					8	0	20.78	0.120
					8	3	20.85	0.122
					8	7	20.81	0.121
					15	0	20.72	0.118
			23165	714.5	1	0	21.89	0.155
					1	7	22.34	0.171
					1	14	21.80	0.151
					8	0	20.68	0.117
					8	3	20.71	0.118
					8	7	20.78	0.120
					15	0	20.62	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	5MHz	QPSK	23035	701.5	1	0	22.76	0.189
					1	12	22.56	0.180
					1	24	**22.91**	**0.195**
					12	0	21.72	0.149
					12	6	21.85	0.153
					12	13	21.78	0.151
					25	0	21.84	0.153
			23095	707.5	1	0	22.76	0.189
					1	12	22.68	0.185
					1	24	22.79	0.190
					12	0	21.71	0.148
					12	6	21.81	0.152
					12	13	21.71	0.148
					25	0	21.71	0.148
			23155	713.5	1	0	22.73	0.187
					1	12	22.56	0.180
					1	24	22.67	0.185
					12	0	21.59	0.144
					12	6	21.65	0.146
					12	13	21.65	0.146
					25	0	21.67	0.147
		16QAM	23035	701.5	1	0	22.13	0.163
					1	12	21.91	0.155
					1	24	22.36	0.172
					12	0	20.72	0.118
					12	6	20.83	0.121
					12	13	20.81	0.121
					25	0	20.83	0.121
			23095	707.5	1	0	22.25	0.168
					1	12	22.32	0.171
					1	24	22.13	0.163
					12	0	20.75	0.119
					12	6	20.84	0.121
					12	13	20.73	0.118
					25	0	20.74	0.119
			23155	713.5	1	0	22.22	0.167
					1	12	21.83	0.152
					1	24	22.00	0.158
					12	0	20.63	0.116
					12	6	20.69	0.117
					12	11	20.72	0.118
					25	0	20.62	0.115

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	10MHz	QPSK	23060	704.0	1	0	22.89	0.195
					1	24	22.83	0.192
					1	49	22.84	0.192
					25	0	21.80	0.151
					25	12	21.82	0.152
					25	25	21.78	0.151
					50	0	21.84	0.153
			23095	707.5	1	0	22.89	0.195
					1	24	**22.92**	**0.196**
					1	49	22.81	0.191
					25	0	21.80	0.151
					25	12	21.73	0.149
					25	25	21.78	0.151
					50	0	21.71	0.148
			23130	711.0	1	0	22.83	0.192
					1	24	22.80	0.191
					1	49	22.72	0.187
					25	0	21.71	0.148
					25	12	21.73	0.149
					25	25	21.60	0.145
					50	0	21.75	0.150
		16QAM	23060	704.0	1	0	22.04	0.160
					1	24	21.96	0.157
					1	49	22.11	0.163
					25	0	20.79	0.120
					25	12	20.84	0.121
					25	25	20.79	0.120
					50	0	20.84	0.121
			23095	707.5	1	0	22.03	0.160
					1	24	22.03	0.160
					1	49	22.04	0.160
					25	0	20.83	0.121
					25	12	20.81	0.121
					25	25	20.82	0.121
					50	0	20.74	0.119
			23130	711.0	1	0	22.08	0.161
					1	24	21.99	0.158
					1	49	21.94	0.156
					25	0	20.71	0.118
					25	12	20.70	0.117
					25	25	20.66	0.116
					50	0	20.72	0.118

Band	Date Rate (Mbps)	Frequency (MHz)	Average Conducted power		
			ANT-0	ANT-1	ANT-0+1
IEEE 802.11b	1	2412.0	17.83	18.09	20.97
		2437.0	17.87	17.96	20.93
		2462.0	15.03	15.15	18.10
	2	2437.0	17.83	17.92	20.89
	5.5	2437.0	17.80	17.86	20.84
	11	2437.0	17.75	17.81	20.79
IEEE 802.11g	6	2412.0	16.37	16.04	19.22
		2437.0	20.42	19.53	23.01
		2462.0	17.34	16.83	20.10
	9	2437.0	20.38	19.50	22.97
	12	2437.0	20.30	19.42	22.89
	18	2437.0	20.32	19.45	22.92
	24	2437.0	20.28	19.39	22.87
	36	2437.0	20.20	19.31	22.79
	48	2437.0	20.23	19.29	22.80
	54	2437.0	20.15	19.35	22.78
IEEE 802.11n 2.4GHz 20MHz	6.5	2412.0	15.84	15.36	18.62
		2437.0	20.38	19.37	22.91
		2462.0	17.07	16.69	19.89
	14.4	2437.0	20.31	19.34	22.86
	21.7	2437.0	20.29	19.35	22.86
	28.9	2437.0	20.22	19.30	22.79
	43.3	2437.0	20.25	19.26	22.79
	57.8	2437.0	20.20	19.21	22.74
	65	2437.0	20.15	19.13	22.68
	72.2	2437.0	20.13	19.10	22.66
IEEE 802.11n 2.4GHz 40MHz	13.5	2422.0	14.14	13.59	16.88
		2437.0	18.00	17.71	20.87
		2452.0	15.68	15.51	18.61
	30	2437.0	17.97	17.67	20.83
	45	2437.0	17.92	17.62	20.78
	60	2437.0	17.90	17.55	20.74
	90	2437.0	17.83	17.60	20.73
	120	2437.0	17.80	17.52	20.67
	135	2437.0	17.85	17.48	20.68
	150	2437.0	17.75	17.42	20.60

Note: The relevant measured result has the offset with cable loss already.

Band	Date Rate (Mbps)	Frequency (MHz)	Average Conducted power		
			ANT-0	ANT-1	ANT-0+1
IEEE 802.11a	6	5180.0	16.58	16.25	19.43
		5200.0	21.10	20.84	23.98
		5220.0	21.40	21.15	24.29
		5240.0	19.41	19.21	22.32
		5745.0	20.97	20.84	23.92
		5765.0	21.02	20.91	23.98
		5785.0	20.42	20.36	23.40
		5805.0	20.50	20.54	23.53
		5825.0	19.46	19.16	22.32
	54	5180.0	16.46	16.13	19.31
		5200.0	21.00	20.73	23.88
		5220.0	21.28	21.02	24.16
		5240.0	19.30	19.07	22.20
		5745.0	20.85	20.72	23.80
		5765.0	20.91	20.78	23.86
		5785.0	20.29	20.24	23.28
		5805.0	20.37	20.42	23.41
		5825.0	19.34	19.05	22.21
IEEE 802.1ac 20MHz	6.5	5180.0	18.03	17.96	21.01
		5200.0	20.92	20.74	23.84
		5220.0	21.03	21.15	24.10
		5240.0	19.83	19.61	22.73
		5745.0	20.80	20.78	23.80
		5765.0	20.89	20.93	23.92
		5785.0	20.41	19.95	23.20
		5805.0	20.25	20.10	23.19
		5825.0	19.76	19.30	22.55
	86.7	5180.0	17.92	17.84	20.89
		5200.0	20.80	20.61	23.72
		5220.0	20.93	21.02	23.99
		5240.0	19.71	19.49	22.61
		5745.0	20.68	20.65	23.68
		5765.0	20.78	20.81	23.81
		5785.0	20.30	19.82	23.08
		5805.0	20.14	19.98	23.07
		5825.0	19.63	19.15	22.41

Note: The relevant measured result has the offset with cable loss already.

Band	Date Rate (Mbps)	Frequency (MHz)	Average Conducted power		
			ANT-0	ANT-1	ANT-0+1
IEEE 802.1ac 40MHz	13.5	5190.0	12.22	12.51	15.38
		5230.0	19.77	19.80	22.80
		5755.0	20.46	20.16	23.32
		5795.0	20.51	20.27	23.40
	200	5190.0	12.09	12.37	15.24
		5230.0	19.65	19.69	22.68
		5755.0	20.31	20.00	23.17
		5795.0	20.40	20.15	23.29
IEEE 802.1ac 80MHz	29.3	5210.0	11.18	11.20	14.20
		5775.0	19.61	19.43	22.53
	433.3	5210.0	11.02	11.07	14.06
		5775.0	19.47	19.28	22.39

Note: The relevant measured result has the offset with cable loss already.

4. Test Results

WLAN ANT_CDD										
Band	Test mode/RB/ Data rate	Frequency (MHz)	Limit (mw/cm^2)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw/cm^2)
IEEE 802.11b	1M	2412.0	1	20	21.50	2.68	1.85	1	261.32	0.052
		2437.0	1	20	21.50	2.68	1.85	1	261.32	0.052
		2462.0	1	20	19.50	2.68	1.85	1	164.88	0.033
IEEE 802.11g	6M	2412.0	1	20	20.50	2.68	1.85	1	207.57	0.041
		2437.0	1	20	23.50	2.68	1.85	1	414.16	0.082
		2462.0	1	20	21.50	2.68	1.85	1	261.32	0.052
IEEE 802.11n 2.4GHz 20MHz	6.5M	2412.0	1	20	19.50	2.68	1.85	1	164.88	0.033
		2437.0	1	20	23.00	2.68	1.85	1	369.12	0.073
		2462.0	1	20	20.50	2.68	1.85	1	207.57	0.041
IEEE 802.11n 2.4GHz 40MHz	13.5M	2422.0	1	20	17.50	2.68	1.85	1	104.03	0.021
		2437.0	1	20	21.50	2.68	1.85	1	261.32	0.052
		2452.0	1	20	19.50	2.68	1.85	1	164.88	0.033

WLAN ANT_CDD										
Band	Test mode/RB/ Data rate	Frequency (MHz)	Limit (mw/cm^2)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw/cm^2)
IEEE 802.11a	6M	5180.0	1	20	21	3.04	2.01	1	253.04	0.050
		5200.0	1	20	24	3.04	2.01	1	504.89	0.100
		5220.0	1	20	24.5	3.04	2.01	1	566.49	0.113
		5240.0	1	20	23	3.04	2.01	1	401.05	0.080
		5745.0	1	20	24	3.04	2.01	1	504.89	0.100
		5765.0	1	20	24	3.04	2.01	1	504.89	0.100
		5785.0	1	20	23.5	3.04	2.01	1	449.98	0.090
		5805.0	1	20	24	3.04	2.01	1	504.89	0.100
		5825.0	1	20	22.5	3.04	2.01	1	357.43	0.071
IEEE 802.1ac 20MHz	6.5M	5180.0	1	20	21.5	3.04	2.01	1	283.92	0.056
		5200.0	1	20	24	3.04	2.01	1	504.89	0.100
		5220.0	1	20	24.5	3.04	2.01	1	566.49	0.113
		5240.0	1	20	23	3.04	2.01	1	401.05	0.080
		5745.0	1	20	24	3.04	2.01	1	504.89	0.100
		5765.0	1	20	24	3.04	2.01	1	504.89	0.100
		5785.0	1	20	23.5	3.04	2.01	1	449.98	0.090
		5805.0	1	20	23.5	3.04	2.01	1	449.98	0.090
		5825.0	1	20	23	3.04	2.01	1	401.05	0.080
IEEE 802.1ac 40MHz	13.5M	5190.0	1	20	16.5	3.04	2.01	1	89.78	0.018
		5230.0	1	20	23	3.04	2.01	1	401.05	0.080
		5755.0	1	20	23.5	3.04	2.01	1	449.98	0.090
		5795.0	1	20	23.5	3.04	2.01	1	449.98	0.090
IEEE 802.1ac 80MHz	29.3M	5210.0	1	20	15.5	3.04	2.01	1	71.32	0.014
		5775.0	1	20	23	3.04	2.01	1	401.05	0.080

WWAN (Diversity)										
Band	Test mode/RB/ Data rate	Frequency (MHz)	Limit (mw/cm^2)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw/cm^2)
LTE Band2 QPSK_3MHz	1RB	1850.7	1	20	23.00	3.02	2	1	399.05	0.079
		1880.0	1	20	23.00	3.02	2	1	399.05	0.079
		1909.3	1	20	23.00	3.02	2	1	399.05	0.079
LTE Band4 QPSK_10MHz	1RB	1710.7	1	20	23.50	3.02	2	1	447.74	0.089
		1732.5	1	20	23.50	3.02	2	1	447.74	0.089
		1754.3	1	20	23.50	3.02	2	1	447.74	0.089
LTE Band5 QPSK_10MHz	1RB	824.7	0.55	20	23.00	1.04	1.27	1	253.4	0.050
		836.5	0.558	20	23.00	1.04	1.27	1	253.4	0.050
		848.3	0.566	20	23.00	1.04	1.27	1	253.4	0.050
LTE Band12 QPSK_3MHz	1RB	699.7	0.466	20	23.00	-1.35	0.73	1	145.65	0.029
		707.5	0.472	20	23.00	-1.35	0.73	1	145.65	0.029
		715.3	0.477	20	23.00	-1.35	0.73	1	145.65	0.029
WWAN (Main)										
Band	Test mode/RB/ Data rate	Frequency (MHz)	Limit (mw/cm^2)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	[P] x [G] with Duty cycle [TP] (mW)	Power Density [S] (mw/cm^2)
LTE Band2 QPSK_3MHz	1RB	1850.7	1	20	23.00	3.01	2	1	399.05	0.079
		1880.0	1	20	23.00	3.01	2	1	399.05	0.079
		1909.3	1	20	23.00	3.01	2	1	399.05	0.079
LTE Band4 QPSK_10MHz	1RB	1710.7	1	20	23.50	3.02	2	1	447.74	0.089
		1732.5	1	20	23.50	3.02	2	1	447.74	0.089
		1754.3	1	20	23.50	3.02	2	1	447.74	0.089
LTE Band5 QPSK_10MHz	1RB	824.7	0.55	20	23.00	2.39	1.73	1	345.18	0.069
		836.5	0.558	20	23.00	2.39	1.73	1	345.18	0.069
		848.3	0.566	20	23.00	2.39	1.73	1	345.18	0.069
LTE Band12 QPSK_3MHz	1RB	699.7	0.466	20	23.00	1.20	1.32	1	263.37	0.052
		707.5	0.472	20	23.00	1.20	1.32	1	263.37	0.052
		715.3	0.477	20	23.00	1.20	1.32	1	263.37	0.052

Note:

1.Mobile or fixed location transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

2.The Numeric Gain calculated by 10^(ant. Gain(dBi) /10).

3.Each band max power which perform MPE of any configurations.

4.The MPE results are evaluated by lowest data rate for WLAN.

5.The device operating IEEE 802.11 a/b/g/n/ac mode is 2TX CDD.

Simultaneous Transmitting:

Simultaneous MPE = 2.4GHz + 5GHz + LTE MPE = 0.082 + 0.113 + 0.089 = 0.284 mw/cm^2 < 1 mw/cm^2