

TEST REPORT



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1. Report No : DRTFCC2605-0058

2. Customer

• Name (FCC) : LG Electronics Inc.

• Address (FCC) : 222 LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, South Korea, 17709

3. Use of Report : FCC Class 2 Permissive Change

4. Product Name / Model Name : Telematics / TFVWAIBG1FF

FCC ID : 2BO3LTFVWAIBG1FF

5. FCC Regulation(s): Part 22, 24, 27, 90

Test Method Used : KDB971168 D01v03, ANSI C63.26-2015

6. Date of Test : 2026.03.30 ~ 2026.05.11

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation	Tested by	Technical Manager
	Name : SeokHo Han 	Name : JaeJin Lee 

2026 . 05 . 14 .

Dt&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2605-0058	May. 14, 2026	Initial issue	SeokHo Han	JaeJin Lee

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1. GENERAL INFORMATION

Equipment Class	PCS Licensed Transmitter(PCB)
Product Name	Telematics
Model Name(s)	TFVWAIBG1FF
FVIN(Firmware Version Identification Number)	0038
EUT Serial Number	Conducted, Radiated: 601VISM684174
Supplying power	DC 12 V
Antenna Information	PIFA type (Internal antenna)

Antenna Information (LTE)

Band	Antenna gain(dBi)
71	0.84
12	0.56
17	0.56
13	0.56
14	0.56
26	0.19
5	0.19
66	2.40
4	2.40
25	2.40
2	2.40
7	1.12
41	1.12

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 71	673 ~ 688	20	QPSK	22.66	0.185	21.35	0.136
LTE Band 71	673 ~ 688	20	16QAM	21.63	0.146	20.32	0.108
LTE Band 71	673 ~ 688	20	64QAM	20.64	0.116	19.33	0.086
LTE Band 71	673 ~ 688	20	256QAM	17.61	0.058	16.30	0.043
LTE Band 71	670.5 ~ 690.5	15	QPSK	22.54	0.179	21.23	0.133
LTE Band 71	670.5 ~ 690.5	15	16QAM	21.59	0.144	20.28	0.107
LTE Band 71	670.5 ~ 690.5	15	64QAM	20.59	0.115	19.28	0.085
LTE Band 71	670.5 ~ 690.5	15	256QAM	17.61	0.058	16.3	0.043
LTE Band 71	668 ~ 693	10	QPSK	22.51	0.178	21.2	0.132
LTE Band 71	668 ~ 693	10	16QAM	21.55	0.143	20.24	0.106
LTE Band 71	668 ~ 693	10	64QAM	20.63	0.116	19.32	0.086
LTE Band 71	668 ~ 693	10	256QAM	17.60	0.058	16.29	0.043
LTE Band 71	665.5 ~ 695.5	5	QPSK	22.49	0.177	21.18	0.131
LTE Band 71	665.5 ~ 695.5	5	16QAM	21.55	0.143	20.24	0.106
LTE Band 71	665.5 ~ 695.5	5	64QAM	20.64	0.116	19.33	0.086
LTE Band 71	665.5 ~ 695.5	5	256QAM	17.58	0.057	16.27	0.042
LTE Band 12	704 ~ 711	10	QPSK	22.19	0.166	20.60	0.115
LTE Band 12	704 ~ 711	10	16QAM	21.26	0.134	19.67	0.093
LTE Band 12	704 ~ 711	10	64QAM	20.24	0.106	18.65	0.073
LTE Band 12	704 ~ 711	10	256QAM	17.26	0.053	15.67	0.037
LTE Band 12	701.5 ~ 713.5	5	QPSK	22.14	0.164	20.55	0.114
LTE Band 12	701.5 ~ 713.5	5	16QAM	21.31	0.135	19.72	0.094
LTE Band 12	701.5 ~ 713.5	5	64QAM	20.28	0.107	18.69	0.074
LTE Band 12	701.5 ~ 713.5	5	256QAM	17.23	0.053	15.64	0.037
LTE Band 12	700.5 ~ 714.5	3	QPSK	22.11	0.163	20.52	0.113
LTE Band 12	700.5 ~ 714.5	3	16QAM	21.24	0.133	19.65	0.092
LTE Band 12	700.5 ~ 714.5	3	64QAM	20.24	0.106	18.65	0.073
LTE Band 12	700.5 ~ 714.5	3	256QAM	17.30	0.054	15.71	0.037
LTE Band 12	699.7 ~ 715.3	1.4	QPSK	22.14	0.164	20.55	0.114
LTE Band 12	699.7 ~ 715.3	1.4	16QAM	21.31	0.135	19.72	0.094
LTE Band 12	699.7 ~ 715.3	1.4	64QAM	20.28	0.107	18.69	0.074
LTE Band 12	699.7 ~ 715.3	1.4	256QAM	17.24	0.053	15.65	0.037
LTE Band 12B	701.5 ~ 713.5	5+10	QPSK	23.66	0.232	22.07	0.161
LTE Band 12B	701.5 ~ 713.5	5+10	16QAM	23.41	0.219	21.82	0.152
LTE Band 12B	701.5 ~ 713.5	5+5	QPSK	23.52	0.225	21.93	0.156
LTE Band 12B	701.5 ~ 713.5	5+5	16QAM	23.05	0.202	21.46	0.140
LTE Band 17	709 ~ 711	10	QPSK	22.26	0.168	20.67	0.117
LTE Band 17	709 ~ 711	10	16QAM	21.38	0.137	19.79	0.095
LTE Band 17	709 ~ 711	10	64QAM	20.38	0.109	18.79	0.076
LTE Band 17	709 ~ 711	10	256QAM	17.31	0.054	15.72	0.037
LTE Band 17	706.5 ~ 713.5	5	QPSK	22.25	0.168	20.66	0.116
LTE Band 17	706.5 ~ 713.5	5	16QAM	21.35	0.136	19.76	0.095
LTE Band 17	706.5 ~ 713.5	5	64QAM	20.31	0.107	18.72	0.074
LTE Band 17	706.5 ~ 713.5	5	256QAM	17.32	0.054	15.73	0.037

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 13	782	10	QPSK	22.27	0.169	20.68	0.117
LTE Band 13	782	10	16QAM	21.27	0.134	19.68	0.093
LTE Band 13	782	10	64QAM	20.34	0.108	18.75	0.075
LTE Band 13	782	10	256QAM	17.33	0.054	15.74	0.037
LTE Band 13	779.5 ~ 784.5	5	QPSK	22.21	0.166	20.62	0.115
LTE Band 13	779.5 ~ 784.5	5	16QAM	21.24	0.133	19.65	0.092
LTE Band 13	779.5 ~ 784.5	5	64QAM	20.25	0.106	18.66	0.073
LTE Band 13	779.5 ~ 784.5	5	256QAM	17.28	0.053	15.69	0.037
LTE Band 14	793	10	QPSK	22.31	0.170	20.72	0.118
LTE Band 14	793	10	16QAM	21.28	0.134	19.69	0.093
LTE Band 14	793	10	64QAM	20.27	0.106	18.68	0.074
LTE Band 14	793	10	256QAM	17.27	0.053	15.68	0.037
LTE Band 14	790.5 ~ 795.5	5	QPSK	22.28	0.169	20.69	0.117
LTE Band 14	790.5 ~ 795.5	5	16QAM	21.33	0.136	19.74	0.094
LTE Band 14	790.5 ~ 795.5	5	64QAM	20.31	0.107	18.72	0.074
LTE Band 14	790.5 ~ 795.5	5	256QAM	17.34	0.054	15.75	0.038
LTE Band 26(P90)	819	10	QPSK	22.43	0.175	20.47	0.111
LTE Band 26(P90)	819	10	16QAM	21.29	0.135	19.33	0.086
LTE Band 26(P90)	819	10	64QAM	20.28	0.107	18.32	0.068
LTE Band 26(P90)	819	10	256QAM	17.47	0.056	15.51	0.036
LTE Band 26(P90)	816.5 ~ 821.5	5	QPSK	22.41	0.174	20.45	0.111
LTE Band 26(P90)	816.5 ~ 821.5	5	16QAM	21.24	0.133	19.28	0.085
LTE Band 26(P90)	816.5 ~ 821.5	5	64QAM	20.26	0.106	18.3	0.068
LTE Band 26(P90)	816.5 ~ 821.5	5	256QAM	17.44	0.055	15.48	0.035
LTE Band 26(P90)	815.5 ~ 822.5	3	QPSK	22.41	0.174	20.45	0.111
LTE Band 26(P90)	815.5 ~ 822.5	3	16QAM	21.40	0.138	19.44	0.088
LTE Band 26(P90)	815.5 ~ 822.5	3	64QAM	20.29	0.107	18.33	0.068
LTE Band 26(P90)	815.5 ~ 822.5	3	256QAM	17.50	0.056	15.54	0.036
LTE Band 26(P90)	814.7 ~ 823.3	1.4	QPSK	22.43	0.175	20.47	0.111
LTE Band 26(P90)	814.7 ~ 823.3	1.4	16QAM	21.33	0.136	19.37	0.086
LTE Band 26(P90)	814.7 ~ 823.3	1.4	64QAM	20.26	0.106	18.30	0.068
LTE Band 26(P90)	814.7 ~ 823.3	1.4	256QAM	17.53	0.057	15.57	0.036
LTE Band 26(P22)	831.5 ~ 841.5	15	QPSK	22.54	0.179	20.58	0.114
LTE Band 26(P22)	831.5 ~ 841.5	15	16QAM	21.48	0.141	19.52	0.090
LTE Band 26(P22)	831.5 ~ 841.5	15	64QAM	20.45	0.111	18.49	0.071
LTE Band 26(P22)	831.5 ~ 841.5	15	256QAM	17.65	0.058	15.69	0.037
LTE Band 26(P22)	829 ~ 844	10	QPSK	22.45	0.176	20.49	0.112
LTE Band 26(P22)	829 ~ 844	10	16QAM	21.42	0.139	19.46	0.088
LTE Band 26(P22)	829 ~ 844	10	64QAM	20.44	0.111	18.48	0.070
LTE Band 26(P22)	829 ~ 844	10	256QAM	17.60	0.058	15.64	0.037
LTE Band 26(P22)	826.5 ~ 846.5	5	QPSK	22.43	0.175	20.47	0.111
LTE Band 26(P22)	826.5 ~ 846.5	5	16QAM	21.32	0.136	19.36	0.086
LTE Band 26(P22)	826.5 ~ 846.5	5	64QAM	20.45	0.111	18.49	0.071
LTE Band 26(P22)	826.5 ~ 846.5	5	256QAM	17.55	0.057	15.59	0.036
LTE Band 26(P22)	825.5 ~ 847.5	3	QPSK	22.46	0.176	20.5	0.112
LTE Band 26(P22)	825.5 ~ 847.5	3	16QAM	21.45	0.140	19.49	0.089
LTE Band 26(P22)	825.5 ~ 847.5	3	64QAM	20.44	0.111	18.48	0.070
LTE Band 26(P22)	825.5 ~ 847.5	3	256QAM	17.59	0.057	15.63	0.037
LTE Band 26(P22)	824.7 ~ 848.3	1.4	QPSK	22.49	0.177	20.53	0.113
LTE Band 26(P22)	824.7 ~ 848.3	1.4	16QAM	21.37	0.137	19.41	0.087
LTE Band 26(P22)	824.7 ~ 848.3	1.4	64QAM	20.38	0.109	18.42	0.070
LTE Band 26(P22)	824.7 ~ 848.3	1.4	256QAM	17.61	0.058	15.65	0.037

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 5	829 ~ 844	10	QPSK	22.61	0.182	20.65	0.116
LTE Band 5	829 ~ 844	10	16QAM	21.58	0.144	19.62	0.092
LTE Band 5	829 ~ 844	10	64QAM	20.48	0.112	18.52	0.071
LTE Band 5	829 ~ 844	10	256QAM	17.60	0.058	15.64	0.037
LTE Band 5	826.5 ~ 846.5	5	QPSK	22.59	0.182	20.63	0.116
LTE Band 5	826.5 ~ 846.5	5	16QAM	21.56	0.143	19.6	0.091
LTE Band 5	826.5 ~ 846.5	5	64QAM	20.40	0.110	18.44	0.070
LTE Band 5	826.5 ~ 846.5	5	256QAM	17.54	0.057	15.58	0.036
LTE Band 5	825.5 ~ 847.5	3	QPSK	22.56	0.180	20.6	0.115
LTE Band 5	825.5 ~ 847.5	3	16QAM	21.45	0.140	19.49	0.089
LTE Band 5	825.5 ~ 847.5	3	64QAM	20.47	0.111	18.51	0.071
LTE Band 5	825.5 ~ 847.5	3	256QAM	17.48	0.056	15.52	0.036
LTE Band 5	824.7 ~ 848.3	1.4	QPSK	22.60	0.182	20.64	0.116
LTE Band 5	824.7 ~ 848.3	1.4	16QAM	21.54	0.143	19.58	0.091
LTE Band 5	824.7 ~ 848.3	1.4	64QAM	20.44	0.111	18.48	0.070
LTE Band 5	824.7 ~ 848.3	1.4	256QAM	17.53	0.057	15.57	0.036
LTE Band 5B	829 ~ 844	10+10	QPSK	24.13	0.259	22.17	0.165
LTE Band 5B	829 ~ 844	10+10	16QAM	23.85	0.243	21.89	0.155
LTE Band 5B	826.5 ~ 846.5	10+5	QPSK	23.89	0.245	21.93	0.156
LTE Band 5B	826.5 ~ 846.5	10+5	16QAM	23.50	0.224	21.54	0.143
LTE Band 5B	826.5 ~ 846.5	5+10	QPSK	24.18	0.262	22.22	0.167
LTE Band 5B	826.5 ~ 846.5	5+10	16QAM	23.72	0.236	21.76	0.150
LTE Band 5B	825.5 ~ 847.5	5+3	QPSK	24.08	0.256	22.12	0.163
LTE Band 5B	825.5 ~ 847.5	5+3	16QAM	23.40	0.219	21.44	0.139
LTE Band 5B	825.5 ~ 847.5	3+5	QPSK	24.12	0.258	22.16	0.164
LTE Band 5B	825.5 ~ 847.5	3+5	16QAM	23.64	0.231	21.68	0.147

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 4	1720 ~ 1745	20	QPSK	22.75	0.188	25.15	0.327
LTE Band 4	1720 ~ 1745	20	16QAM	21.67	0.147	24.07	0.255
LTE Band 4	1720 ~ 1745	20	64QAM	20.72	0.118	23.12	0.205
LTE Band 4	1720 ~ 1745	20	256QAM	17.91	0.062	20.31	0.107
LTE Band 4	1717.5 ~ 1747.5	15	QPSK	22.71	0.187	25.11	0.324
LTE Band 4	1717.5 ~ 1747.5	15	16QAM	21.60	0.145	24.00	0.251
LTE Band 4	1717.5 ~ 1747.5	15	64QAM	20.69	0.117	23.09	0.204
LTE Band 4	1717.5 ~ 1747.5	15	256QAM	17.88	0.061	20.28	0.107
LTE Band 4	1715 ~ 1750	10	QPSK	22.71	0.187	25.11	0.324
LTE Band 4	1715 ~ 1750	10	16QAM	21.65	0.146	24.05	0.254
LTE Band 4	1715 ~ 1750	10	64QAM	20.65	0.116	23.05	0.202
LTE Band 4	1715 ~ 1750	10	256QAM	17.83	0.061	20.23	0.105
LTE Band 4	1712.5 ~ 1752.5	5	QPSK	22.70	0.186	25.10	0.324
LTE Band 4	1712.5 ~ 1752.5	5	16QAM	21.64	0.146	24.04	0.254
LTE Band 4	1712.5 ~ 1752.5	5	64QAM	20.63	0.116	23.03	0.201
LTE Band 4	1712.5 ~ 1752.5	5	256QAM	17.84	0.061	20.24	0.106
LTE Band 4	1711.5 ~ 1753.5	3	QPSK	22.70	0.186	25.10	0.324
LTE Band 4	1711.5 ~ 1753.5	3	16QAM	21.62	0.145	24.02	0.252
LTE Band 4	1711.5 ~ 1753.5	3	64QAM	20.61	0.115	23.01	0.200
LTE Band 4	1711.5 ~ 1753.5	3	256QAM	17.85	0.061	20.25	0.106
LTE Band 4	1710.7 ~ 1754.3	1.4	QPSK	22.70	0.186	25.10	0.324
LTE Band 4	1710.7 ~ 1754.3	1.4	16QAM	21.61	0.145	24.01	0.252
LTE Band 4	1710.7 ~ 1754.3	1.4	64QAM	20.71	0.118	23.11	0.205
LTE Band 4	1710.7 ~ 1754.3	1.4	256QAM	17.85	0.061	20.25	0.106
LTE Band 66	1720 ~ 1770	20	QPSK	22.49	0.177	24.89	0.308
LTE Band 66	1720 ~ 1770	20	16QAM	21.41	0.138	23.81	0.240
LTE Band 66	1720 ~ 1770	20	64QAM	20.45	0.111	22.85	0.193
LTE Band 66	1720 ~ 1770	20	256QAM	17.52	0.056	19.92	0.098
LTE Band 66	1717.5 ~ 1772.5	15	QPSK	22.47	0.177	24.87	0.307
LTE Band 66	1717.5 ~ 1772.5	15	16QAM	21.39	0.138	23.79	0.239
LTE Band 66	1717.5 ~ 1772.5	15	64QAM	20.40	0.110	22.80	0.191
LTE Band 66	1717.5 ~ 1772.5	15	256QAM	17.50	0.056	19.90	0.098
LTE Band 66	1715 ~ 1775	10	QPSK	22.44	0.175	24.84	0.305
LTE Band 66	1715 ~ 1775	10	16QAM	21.40	0.138	23.80	0.240
LTE Band 66	1715 ~ 1775	10	64QAM	20.43	0.110	22.83	0.192
LTE Band 66	1715 ~ 1775	10	256QAM	17.50	0.056	19.90	0.098
LTE Band 66	1712.5 ~ 1777.5	5	QPSK	22.43	0.175	24.83	0.304
LTE Band 66	1712.5 ~ 1777.5	5	16QAM	21.39	0.138	23.79	0.239
LTE Band 66	1712.5 ~ 1777.5	5	64QAM	20.40	0.110	22.80	0.191
LTE Band 66	1712.5 ~ 1777.5	5	256QAM	17.48	0.056	19.88	0.097
LTE Band 66	1711.5 ~ 1778.5	3	QPSK	22.44	0.175	24.84	0.305
LTE Band 66	1711.5 ~ 1778.5	3	16QAM	21.40	0.138	23.80	0.240
LTE Band 66	1711.5 ~ 1778.5	3	64QAM	20.40	0.110	22.80	0.191
LTE Band 66	1711.5 ~ 1778.5	3	256QAM	17.46	0.056	19.86	0.097
LTE Band 66	1710.7 ~ 1779.3	1.4	QPSK	22.47	0.177	24.87	0.307
LTE Band 66	1710.7 ~ 1779.3	1.4	16QAM	21.38	0.137	23.78	0.239
LTE Band 66	1710.7 ~ 1779.3	1.4	64QAM	20.41	0.110	22.81	0.191
LTE Band 66	1710.7 ~ 1779.3	1.4	256QAM	17.47	0.056	19.87	0.097

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 66B	1727.5 ~ 1777.5	15+5	QPSK	22.35	0.172	24.75	0.299
LTE Band 66B	1727.5 ~ 1777.5	15+5	16QAM	21.98	0.158	24.38	0.274
LTE Band 66B	1715 ~ 1775	10+10	QPSK	22.49	0.177	24.89	0.308
LTE Band 66B	1715 ~ 1775	10+10	16QAM	21.73	0.149	24.13	0.259
LTE Band 66B	1727.5 ~ 1777.5	10+5	QPSK	22.52	0.179	24.92	0.310
LTE Band 66B	1727.5 ~ 1777.5	10+5	16QAM	21.69	0.148	24.09	0.256
LTE Band 66B	1727.5 ~ 1777.5	5+15	QPSK	23.03	0.201	25.43	0.349
LTE Band 66B	1727.5 ~ 1777.5	5+15	16QAM	22.48	0.177	24.88	0.308
LTE Band 66B	1727.5 ~ 1777.5	5+10	QPSK	22.77	0.189	25.17	0.329
LTE Band 66B	1727.5 ~ 1777.5	5+10	16QAM	21.98	0.158	24.38	0.274
LTE Band 66B	1727.5 ~ 1777.5	5+5	QPSK	22.67	0.185	25.07	0.321
LTE Band 66B	1727.5 ~ 1777.5	5+5	16QAM	21.57	0.144	23.97	0.249
LTE Band 66C	1720 ~ 1770	20+20	QPSK	22.62	0.183	25.02	0.318
LTE Band 66C	1720 ~ 1770	20+20	16QAM	21.73	0.149	24.13	0.259
LTE Band 66C	1717.5 ~ 1772.5	20+15	QPSK	22.28	0.169	24.68	0.294
LTE Band 66C	1717.5 ~ 1772.5	20+15	16QAM	21.66	0.147	24.06	0.255
LTE Band 66C	1715 ~ 1775	20+10	QPSK	22.41	0.174	24.81	0.303
LTE Band 66C	1715 ~ 1775	20+10	16QAM	21.59	0.144	23.99	0.251
LTE Band 66C	1727.5 ~ 1777.5	20+5	QPSK	22.35	0.172	24.75	0.299
LTE Band 66C	1727.5 ~ 1777.5	20+5	16QAM	21.17	0.131	23.57	0.228
LTE Band 66C	1717.5 ~ 1772.5	15+20	QPSK	22.12	0.163	24.52	0.283
LTE Band 66C	1717.5 ~ 1772.5	15+20	16QAM	21.49	0.141	23.89	0.245
LTE Band 66C	1717.5 ~ 1772.5	15+15	QPSK	22.12	0.163	24.52	0.283
LTE Band 66C	1717.5 ~ 1772.5	15+15	16QAM	21.49	0.141	23.89	0.245
LTE Band 66C	1715 ~ 1775	15+10	QPSK	22.33	0.171	24.73	0.297
LTE Band 66C	1715 ~ 1775	15+10	16QAM	21.51	0.142	23.91	0.246
LTE Band 66C	1715 ~ 1775	10+20	QPSK	22.42	0.175	24.82	0.303
LTE Band 66C	1715 ~ 1775	10+20	16QAM	21.76	0.150	24.16	0.261
LTE Band 66C	1715 ~ 1775	10+15	QPSK	22.54	0.179	24.94	0.312
LTE Band 66C	1715 ~ 1775	10+15	16QAM	21.61	0.145	24.01	0.252
LTE Band 66C	1727.5 ~ 1777.5	5+20	QPSK	22.87	0.194	25.27	0.337
LTE Band 66C	1727.5 ~ 1777.5	5+20	16QAM	21.60	0.145	24.00	0.251

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 2	1860 ~ 1900	20	QPSK	22.73	0.187	25.13	0.326
LTE Band 2	1860 ~ 1900	20	16QAM	21.66	0.147	24.06	0.255
LTE Band 2	1860 ~ 1900	20	64QAM	20.67	0.117	23.07	0.203
LTE Band 2	1860 ~ 1900	20	256QAM	17.67	0.058	20.07	0.102
LTE Band 2	1857.5 ~ 1902.5	15	QPSK	22.66	0.185	25.06	0.321
LTE Band 2	1857.5 ~ 1902.5	15	16QAM	21.58	0.144	23.98	0.250
LTE Band 2	1857.5 ~ 1902.5	15	64QAM	20.66	0.116	23.06	0.202
LTE Band 2	1857.5 ~ 1902.5	15	256QAM	17.58	0.057	19.98	0.100
LTE Band 2	1855 ~ 1905	10	QPSK	22.65	0.184	25.05	0.320
LTE Band 2	1855 ~ 1905	10	16QAM	21.58	0.144	23.98	0.250
LTE Band 2	1855 ~ 1905	10	64QAM	20.62	0.115	23.02	0.200
LTE Band 2	1855 ~ 1905	10	256QAM	17.66	0.058	20.06	0.101
LTE Band 2	1852.5 ~ 1907.5	5	QPSK	22.66	0.185	25.06	0.321
LTE Band 2	1852.5 ~ 1907.5	5	16QAM	21.61	0.145	24.01	0.252
LTE Band 2	1852.5 ~ 1907.5	5	64QAM	20.61	0.115	23.01	0.200
LTE Band 2	1852.5 ~ 1907.5	5	256QAM	17.66	0.058	20.06	0.101
LTE Band 2	1851.5 ~ 1908.5	3	QPSK	22.64	0.184	25.04	0.319
LTE Band 2	1851.5 ~ 1908.5	3	16QAM	21.59	0.144	23.99	0.251
LTE Band 2	1851.5 ~ 1908.5	3	64QAM	20.61	0.115	23.01	0.200
LTE Band 2	1851.5 ~ 1908.5	3	256QAM	17.62	0.058	20.02	0.100
LTE Band 2	1850.7 ~ 1909.3	1.4	QPSK	22.64	0.184	25.04	0.319
LTE Band 2	1850.7 ~ 1909.3	1.4	16QAM	21.56	0.143	23.96	0.249
LTE Band 2	1850.7 ~ 1909.3	1.4	64QAM	20.61	0.115	23.01	0.200
LTE Band 2	1850.7 ~ 1909.3	1.4	256QAM	17.65	0.058	20.05	0.101
LTE Band 2C	1860 ~ 1900	20+20	QPSK	23.51	0.224	25.91	0.390
LTE Band 2C	1860 ~ 1900	20+20	16QAM	23.08	0.203	25.48	0.353
LTE Band 2C	1857.5 ~ 1902.5	20+15	QPSK	23.71	0.235	26.11	0.408
LTE Band 2C	1857.5 ~ 1902.5	20+15	16QAM	22.95	0.197	25.35	0.343
LTE Band 2C	1855 ~ 1905	20+10	QPSK	23.60	0.229	26.00	0.398
LTE Band 2C	1855 ~ 1905	20+10	16QAM	22.85	0.193	25.25	0.335
LTE Band 2C	1852.5 ~ 1907.5	20+5	QPSK	23.70	0.234	26.10	0.407
LTE Band 2C	1852.5 ~ 1907.5	20+5	16QAM	22.95	0.197	25.35	0.343
LTE Band 2C	1857.5 ~ 1902.5	15+20	QPSK	23.48	0.223	25.88	0.387
LTE Band 2C	1857.5 ~ 1902.5	15+20	16QAM	22.99	0.199	25.39	0.346
LTE Band 2C	1857.5 ~ 1902.5	15+15	QPSK	23.76	0.238	26.16	0.413
LTE Band 2C	1857.5 ~ 1902.5	15+15	16QAM	23.02	0.200	25.42	0.348
LTE Band 2C	1855 ~ 1905	15+10	QPSK	23.79	0.239	26.19	0.416
LTE Band 2C	1855 ~ 1905	15+10	16QAM	22.85	0.193	25.25	0.335
LTE Band 2C	1855 ~ 1905	10+20	QPSK	23.64	0.231	26.04	0.402
LTE Band 2C	1855 ~ 1905	10+20	16QAM	23.07	0.203	25.47	0.352
LTE Band 2C	1855 ~ 1905	10+15	QPSK	23.75	0.237	26.15	0.412
LTE Band 2C	1855 ~ 1905	10+15	16QAM	23.17	0.207	25.57	0.361
LTE Band 2C	1852.5 ~ 1907.5	5+20	QPSK	23.63	0.231	26.03	0.401
LTE Band 2C	1852.5 ~ 1907.5	5+20	16QAM	23.03	0.201	25.43	0.349

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 25	1860 ~ 1905	20	QPSK	22.31	0.170	24.71	0.296
LTE Band 25	1860 ~ 1905	20	16QAM	21.26	0.134	23.66	0.232
LTE Band 25	1860 ~ 1905	20	64QAM	20.25	0.106	22.65	0.184
LTE Band 25	1860 ~ 1905	20	256QAM	17.36	0.054	19.76	0.095
LTE Band 25	1857.5 ~ 1907.5	15	QPSK	22.28	0.169	24.68	0.294
LTE Band 25	1857.5 ~ 1907.5	15	16QAM	21.30	0.135	23.70	0.234
LTE Band 25	1857.5 ~ 1907.5	15	64QAM	20.28	0.107	22.68	0.185
LTE Band 25	1857.5 ~ 1907.5	15	256QAM	17.42	0.055	19.82	0.096
LTE Band 25	1855 ~ 1910	10	QPSK	22.30	0.170	24.70	0.295
LTE Band 25	1855 ~ 1910	10	16QAM	21.34	0.136	23.74	0.237
LTE Band 25	1855 ~ 1910	10	64QAM	20.27	0.106	22.67	0.185
LTE Band 25	1855 ~ 1910	10	256QAM	17.40	0.055	19.80	0.095
LTE Band 25	1852.5 ~ 1912.5	5	QPSK	22.29	0.169	24.69	0.294
LTE Band 25	1852.5 ~ 1912.5	5	16QAM	21.29	0.135	23.69	0.234
LTE Band 25	1852.5 ~ 1912.5	5	64QAM	20.27	0.106	22.67	0.185
LTE Band 25	1852.5 ~ 1912.5	5	256QAM	17.41	0.055	19.81	0.096
LTE Band 25	1851.5 ~ 1913.5	3	QPSK	22.30	0.170	24.70	0.295
LTE Band 25	1851.5 ~ 1913.5	3	16QAM	21.29	0.135	23.69	0.234
LTE Band 25	1851.5 ~ 1913.5	3	64QAM	20.40	0.110	22.80	0.191
LTE Band 25	1851.5 ~ 1913.5	3	256QAM	17.46	0.056	19.86	0.097
LTE Band 25	1850.7 ~ 1914.3	1.4	QPSK	22.30	0.170	24.70	0.295
LTE Band 25	1850.7 ~ 1914.3	1.4	16QAM	21.31	0.135	23.71	0.235
LTE Band 25	1850.7 ~ 1914.3	1.4	64QAM	20.31	0.107	22.71	0.187
LTE Band 25	1850.7 ~ 1914.3	1.4	256QAM	17.44	0.055	19.84	0.096

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 41	2506 ~ 2680	20	QPSK	23.80	0.240	24.92	0.310
LTE Band 41	2506 ~ 2680	20	16QAM	22.93	0.196	24.05	0.254
LTE Band 41	2506 ~ 2680	20	64QAM	21.96	0.157	23.08	0.203
LTE Band 41	2506 ~ 2680	20	256QAM	18.97	0.079	20.09	0.102
LTE Band 41	2503.5 ~ 2682.5	15	QPSK	23.78	0.239	24.90	0.309
LTE Band 41	2503.5 ~ 2682.5	15	16QAM	22.94	0.197	24.06	0.255
LTE Band 41	2503.5 ~ 2682.5	15	64QAM	21.95	0.157	23.07	0.203
LTE Band 41	2503.5 ~ 2682.5	15	256QAM	18.94	0.078	20.06	0.101
LTE Band 41	2501 ~ 2685	10	QPSK	23.79	0.239	24.91	0.310
LTE Band 41	2501 ~ 2685	10	16QAM	22.93	0.196	24.05	0.254
LTE Band 41	2501 ~ 2685	10	64QAM	21.95	0.157	23.07	0.203
LTE Band 41	2501 ~ 2685	10	256QAM	18.97	0.079	20.09	0.102
LTE Band 41	2498.5 ~ 2687.5	5	QPSK	23.79	0.239	24.91	0.310
LTE Band 41	2498.5 ~ 2687.5	5	16QAM	22.97	0.198	24.09	0.256
LTE Band 41	2498.5 ~ 2687.5	5	64QAM	21.98	0.158	23.10	0.204
LTE Band 41	2498.5 ~ 2687.5	5	256QAM	18.97	0.079	20.09	0.102
LTE Band 41C	2506 ~ 2680	20+20	QPSK	22.54	0.179	24.94	0.312
LTE Band 41C	2506 ~ 2680	20+20	16QAM	22.09	0.162	24.49	0.281
LTE Band 41C	2503.5 ~ 2682.5	20+15	QPSK	22.49	0.177	24.89	0.308
LTE Band 41C	2503.5 ~ 2682.5	20+15	16QAM	21.85	0.153	24.25	0.266
LTE Band 41C	2501 ~ 2685	20+10	QPSK	22.63	0.183	25.03	0.318
LTE Band 41C	2501 ~ 2685	20+10	16QAM	21.96	0.157	24.36	0.273
LTE Band 41C	2498.5 ~ 2687.5	20+5	QPSK	22.45	0.176	24.85	0.305
LTE Band 41C	2498.5 ~ 2687.5	20+5	16QAM	22.05	0.160	24.45	0.279
LTE Band 41C	2503.5 ~ 2682.5	15+20	QPSK	22.57	0.181	24.97	0.314
LTE Band 41C	2503.5 ~ 2682.5	15+20	16QAM	22.16	0.164	24.56	0.286
LTE Band 41C	2503.5 ~ 2682.5	15+15	QPSK	22.65	0.184	25.05	0.320
LTE Band 41C	2503.5 ~ 2682.5	15+15	16QAM	21.88	0.154	24.28	0.268
LTE Band 41C	2501 ~ 2685	15+10	QPSK	22.65	0.184	25.05	0.320
LTE Band 41C	2501 ~ 2685	15+10	16QAM	22.22	0.167	24.62	0.290
LTE Band 41C	2501 ~ 2685	10+20	QPSK	22.78	0.190	25.18	0.330
LTE Band 41C	2501 ~ 2685	10+20	16QAM	22.18	0.165	24.58	0.287
LTE Band 41C	2501 ~ 2685	10+15	QPSK	22.56	0.180	24.96	0.313
LTE Band 41C	2501 ~ 2685	10+15	16QAM	21.68	0.147	24.08	0.256
LTE Band 41C	2498.5 ~ 2687.5	5+20	QPSK	22.57	0.181	24.97	0.314
LTE Band 41C	2498.5 ~ 2687.5	5+20	16QAM	21.59	0.144	23.99	0.251

Mode	TX Frequency (MHz)	Channel Bandwidth	Modulation	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
LTE Band 7	2510 ~ 2560	20	QPSK	22.34	0.171	23.46	0.222
LTE Band 7	2510 ~ 2560	20	16QAM	21.25	0.133	22.37	0.173
LTE Band 7	2510 ~ 2560	20	64QAM	20.33	0.108	21.45	0.140
LTE Band 7	2510 ~ 2560	20	256QAM	17.27	0.053	18.39	0.069
LTE Band 7	2507.5 ~ 2565.5	15	QPSK	22.29	0.169	23.41	0.219
LTE Band 7	2507.5 ~ 2565.5	15	16QAM	21.20	0.132	22.32	0.171
LTE Band 7	2507.5 ~ 2565.5	15	64QAM	20.26	0.106	21.38	0.137
LTE Band 7	2507.5 ~ 2565.5	15	256QAM	17.23	0.053	18.35	0.068
LTE Band 7	2505 ~ 2565	10	QPSK	22.31	0.170	23.43	0.220
LTE Band 7	2505 ~ 2565	10	16QAM	21.23	0.133	22.35	0.172
LTE Band 7	2505 ~ 2565	10	64QAM	20.32	0.108	21.44	0.139
LTE Band 7	2505 ~ 2565	10	256QAM	17.20	0.052	18.32	0.068
LTE Band 7	2502.5 ~ 2567.5	5	QPSK	22.29	0.169	23.41	0.219
LTE Band 7	2502.5 ~ 2567.5	5	16QAM	21.20	0.132	22.32	0.171
LTE Band 7	2502.5 ~ 2567.5	5	64QAM	20.32	0.108	21.44	0.139
LTE Band 7	2502.5 ~ 2567.5	5	256QAM	17.20	0.052	18.32	0.068
LTE Band 7C	2510 ~ 2560	20+20	QPSK	22.03	0.160	24.43	0.277
LTE Band 7C	2510 ~ 2560	20+20	16QAM	21.68	0.147	24.08	0.256
LTE Band 7C	2507.5 ~ 2565.5	20+15	QPSK	22.24	0.167	24.64	0.291
LTE Band 7C	2507.5 ~ 2565.5	20+15	16QAM	21.64	0.146	24.04	0.254
LTE Band 7C	2505 ~ 2565	20+10	QPSK	22.23	0.167	24.63	0.290
LTE Band 7C	2505 ~ 2565	20+10	16QAM	21.63	0.146	24.03	0.253
LTE Band 7C	2507.5 ~ 2565.5	15+20	QPSK	22.16	0.164	24.56	0.286
LTE Band 7C	2507.5 ~ 2565.5	15+20	16QAM	21.80	0.151	24.20	0.263
LTE Band 7C	2507.5 ~ 2565.5	15+15	QPSK	22.02	0.159	24.42	0.277
LTE Band 7C	2507.5 ~ 2565.5	15+15	16QAM	21.76	0.150	24.16	0.261
LTE Band 7C	2505 ~ 2565	15+10	QPSK	22.31	0.170	24.71	0.296
LTE Band 7C	2505 ~ 2565	15+10	16QAM	21.59	0.144	23.99	0.251
LTE Band 7C	2505 ~ 2565	10+20	QPSK	22.22	0.167	24.62	0.290
LTE Band 7C	2505 ~ 2565	10+20	16QAM	21.73	0.149	24.13	0.259

2. INTRODUCTION

2.1. EUT DESCRIPTION

This EUT supports the following capabilities:

LTE(non-CA), LTE UL Carrier Aggregation, 5G NR(FR1 non-CA), 5G NR UL Carrier Aggregation and EN-DC

2.2. TESTING ENVIRONMENT

Ambient Condition	
▪ Temperature	+20 °C ~ +23 °C
▪ Relative Humidity	38 % ~ 42 %

2.3. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.4. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.26-2015.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Antenna-port conducted emission	1.0 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (Below 1 GHz)	4.9 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	4.9 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (Above 18 GHz)	5.8 dB (The confidence level is about 95 %, $k = 2$)

2.5. TEST FACILITY

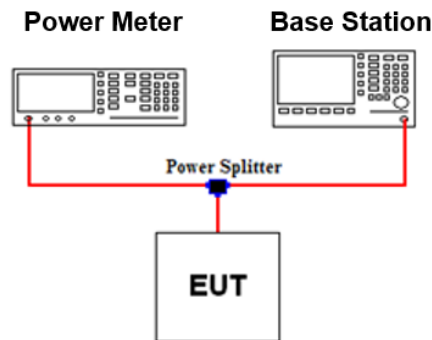
Dt&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.		
The test site complies with the requirements of Part 2.948.		
- FCC Designation No.: KR0034		
- FCC Test Firm Registration No.: 704742		
- ISED CAB identifier: KR0034		
- ISED#: 5740A		
www.dtnet.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

3. DESCRIPTION OF TESTS

3.1. MAXIMUM OUTPUT POWER

Conducted Output Power

Test Set-up



Test Procedure

- KDB971168 D01v03 - Section 5.2.4
- ANSI C63.26-2015 – Section 5.2.4.2

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies. Thus, an average power meter can always be used to perform the measurement when the EUT can be configured to transmit continuously.

If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98%), then the following options can be implemented to facilitate measurement of the average power with an average power meter:

- a) A gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only during active transmission bursts at maximum output power levels.
- b) A conventional average power meter with no signal gating capability can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than or equal to $\pm 2\%$) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $[10 \log (1/\text{duty cycle})]$.

- ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

Test Procedure

- KDB971168 D01v03 - Section 5.6
- ANSI C63.26-2015 – Section 5.2.5.5

Determining ERP and EIRP from conducted RF output power measurement results

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T$$

where:

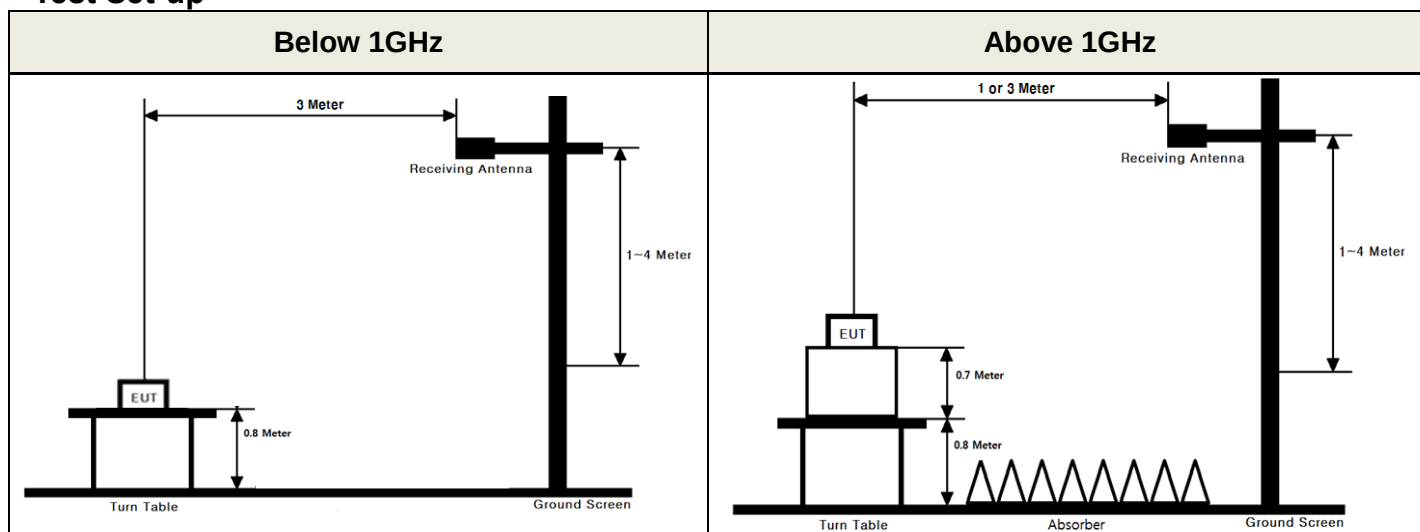
ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

3.2. UNDESIRABLE EMISSIONS

Test Set-up



These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 0.8 or 1.5 meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- KDB971168 D01v03 - Section 7
- ANSI C63.26-2015 – Section 5.5

Test setting

1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW $\geq 3 \times$ RBW
2. Detector = RMS & Trace mode = power averaging (rms)
3. Sweep time = Auto couple
4. Number of sweep point $\geq 2 \times$ span / RBW
5. The trace was allowed to stabilize

Note: If duty cycle < 98%, add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

Band(s)	$T_{\text{on}}(\text{ms})$	$T_{\text{on+off}}(\text{ms})$	Duty cycle = $T_{\text{on}} / (T_{\text{on+off}})$	$10 \log (1/\text{duty cycle})$
B41	2	5	0.4	3.98 dB
41C	1	5	0.2	6.99 dB

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. For radiated power measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated power measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

This measurement was performed with the EUT oriented in 3 orthogonal axis.

4. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal. Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	25/11/18	26/11/18	MY50410399
Spectrum Analyzer	KEYSIGHT	N9030B	25/11/20	26/11/20	MY55480168
DC power supply	SM techno	SDP30-5D	25/05/29	26/05/29	305DMG304
DC power supply	Agilent Technologies	66332A	25/11/21	26/11/21	GB42110592
Multimeter	FLUKE	17B+	25/11/21	26/11/21	36390701WS
Radio Communication Analyzer	Anritsu	MT8820C	25/11/19	26/11/19	6201274516
Radio Communication Analyzer	KEYSIGHT	E7515B	25/05/30	26/05/30	MY60192461
Thermohygrometer	BODYCOM	BJ5478	25/11/24	26/11/24	120612-1
Thermohygrometer	BODYCOM	BJ5478	25/11/24	26/11/24	120612-2
Power Splitter	Anritsu	K241B	25/05/28	26/05/28	1701101
Power Meter,	ML2496A,	MA2490A	25/11/26	26/11/26	1338004,
Wide Bandwidth Sensor	MA2490A	MA2411B	25/11/26	26/11/26	1249303
Signal Generator	Rohde Schwarz	SMBV100A	25/11/20	26/11/20	255571
Signal Generator	ANRITSU	MG3695C	25/11/18	26/11/18	173501
Loop Antenna	ETS-Lindgren	6502	25/11/06	27/11/06	00060496
Bilog Antenna	Schwarzbeck	VULB9163	25/05/27	26/05/27	9163-572
HORN ANT	ETS	3117	25/11/27	26/11/27	00140394
HORN ANT	A.H.Systems	SAS-574	25/06/11	26/06/11	155
PreAmplifier	H.P	8447D	25/11/17	26/11/17	2944A07774
PreAmplifier	Agilent	8449B	25/11/17	26/11/17	3008A02108
PreAmplifier	A.H.Systems Inc.	PAM-1840VH	25/05/29	26/05/29	163
High-pass filter	Wainwright	WHKX12-935-1000-15000-40SS	25/11/18	26/11/18	7
High-pass filter	Wainwright	WHKX10-2838-3300-18000-60SS	25/11/18	26/11/18	2
High-pass filter	Wainwright	WHKX6-6320-8000-26500-40CC	25/11/18	26/11/18	2
High-pass filter	Wainwright	WHNX5.0/26.5G-6SS	25/05/29	26/05/29	8
Cable	HUBER+SUHNER	SUCOFLEX100	26/01/02	27/01/02	M-1
Cable	HUBER+SUHNER	SUCOFLEX100	26/01/02	27/01/02	M-2
Cable	JUNKOSHA	MWX241/B	26/01/02	27/01/02	M-3
Cable	JUNKOSHA	MWX221	26/01/02	27/01/02	M-4
Cable	JUNKOSHA	MWX221	26/01/02	27/01/02	M-5
Cable	JUNFLON	J12J101757-00	26/01/02	27/01/02	M-7
Cable	HUBER+SUHNER	SUCOFLEX104	26/01/02	27/01/02	M-8
Cable	HUBER+SUHNER	SUCOFLEX106	26/01/02	27/01/02	M-9
Cable	JUNKOSHA	MWX315	26/01/02	27/01/02	M-10
Cable	Dt&C	Cable	26/01/02	27/01/02	RFC-46
Cable	Dt&C	Cable	26/01/02	27/01/02	RFC-17
Cable	JUNKOSHA	MWX241	26/01/02	27/01/02	mmW-1
Cable	JUNKOSHA	MWX241	26/01/02	27/01/02	mmW-4
3m Semi Anechoic Chamber	SYC	3m-SAC	25/06/13(NSA) 25/06/19(VSWR)	26/06/13(NSA) 26/06/19(VSWR)	3m-SAC-1

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Status Note 1
2.1046	Conducted Output Power	N/A	C
2.1046 90.635(b)	Conducted Output Power (B26: 814 ~ 824 MHz)	< 100 Watts	C
27.50(c)(10)	Effective Radiated Power (B71)	< 3 Watts max. ERP (Portable station)	C
27.50(b)(9) 27.50(c)(9) 90.542(a)(6)	Effective Radiated Power (B12, 13, 14, 17)	< 3 Watts max. ERP (Portable station)	C
22.913(a)(5)	Effective Radiated Power (B26, 5: 824 ~ 849 MHz)	< 7 Watts max. ERP	C
27.50(d)(4)	Equivalent Isotropic Radiated Power (B66, 4)	< 1 Watts max. EIRP	C
24.232(c) 27.50(h.2)	Equivalent Isotropic Radiated Power (B2, 7, 25, 41)	< 2 Watts max. EIRP	C
2.1053 22.917(a) 24.238(a) 27.53(c) 27.53(h) 27.53(g) 90.543(c) 90.691(a)(2)	Undesirable Emissions (B26, 5, 2, 25, 66, 4, 12, 17, 13, 14, 71)	> 43 + 10log ₁₀ (P) dB for all out-of-band emissions	C
27.53(f) 90.543(f)	Undesirable Emissions in 1559 ~ 1610 MHz (B13, 14)	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions of less than 700 Hz bandwidth)	C
27.53(m)(4)	Undesirable Emissions (B7, 41)	> 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge where X is the greater of 6 megahertz or the actual emission bandwidth	C

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: The Sub Antenna(internal antenna) was enabled through software from the original certified device.

Note 3: Radiated measurements were performed in three orthogonal EUT positions, and the worst case data were reported.

6. SAMPLE CALCULATION

A. For substitution method

Unwanted emissions

- 1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
- 2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3) Vary the measurement antenna height through 1 m to 4 m and the rotate EUT through 360° in order to determine the maximum emission level.
- 4) Record the measured emission level and frequency using the available test method.
If required by the test method, add $10 \log(1/\text{duty cycle})$ to measured emission level.
- 5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 6) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude. And adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the previously emission level[Measured level + $10 \log(1/\text{duty cycle})$].
- 7) The conducted power at the terminal of the substitute antenna is measured.
- 8) Record the level at substituted antenna terminal.
- 9) The result is calculated as below;

Result: EIRP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBi)

Result: ERP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBd)

Where, TX Antenna Gain (dBd) = TX Antenna Gain (dBi) - 2.15 dB

7. TEST DATA

7.1. MAXIMUM OUTPUT POWER

- Test Notes

- 1) EIRP(dBm) = Conducted Output power(dBm) + Antenna Gain(dBi)
ERP = EIRP – 2.15(dB)
- 2) LTE Intra-band ULCA power was measured based on worst-case configuration(Channel Bandwidth, Channel and modulation) of certified module.

7.1.1. LTE Band 71

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
20M	673	QPSK	1/0	22.58	0.84	23.42	21.27
		16QAM	1/0	21.47	0.84	22.31	20.16
		64QAM	1/0	20.49	0.84	21.33	19.18
		256QAM	1/0	17.49	0.84	18.33	16.18
	680.5	QPSK	1/0	22.66	0.84	23.50	21.35
		16QAM	1/0	21.63	0.84	22.47	20.32
		64QAM	1/0	20.64	0.84	21.48	19.33
		256QAM	1/0	17.61	0.84	18.45	16.30
	688	QPSK	1/0	22.61	0.84	23.45	21.30
		16QAM	1/0	21.43	0.84	22.27	20.12
		64QAM	1/0	20.48	0.84	21.32	19.17
		256QAM	1/0	17.44	0.84	18.28	16.13
15M	670.5	QPSK	1/0	22.45	0.84	23.29	21.14
		16QAM	1/0	21.53	0.84	22.37	20.22
		64QAM	1/0	20.51	0.84	21.35	19.20
		256QAM	1/0	17.52	0.84	18.36	16.21
	680.5	QPSK	1/0	22.54	0.84	23.38	21.23
		16QAM	1/0	21.59	0.84	22.43	20.28
		64QAM	1/0	20.59	0.84	21.43	19.28
		256QAM	1/0	17.61	0.84	18.45	16.30
	690.5	QPSK	1/0	22.40	0.84	23.24	21.09
		16QAM	1/0	21.47	0.84	22.31	20.16
		64QAM	1/0	20.48	0.84	21.32	19.17
		256QAM	1/0	17.50	0.84	18.34	16.19
10M	668	QPSK	1/0	22.43	0.84	23.27	21.12
		16QAM	1/0	21.49	0.84	22.33	20.18
		64QAM	1/0	20.49	0.84	21.33	19.18
		256QAM	1/0	17.46	0.84	18.30	16.15
	680.5	QPSK	1/0	22.51	0.84	23.35	21.20
		16QAM	1/0	21.55	0.84	22.39	20.24
		64QAM	1/0	20.63	0.84	21.47	19.32
		256QAM	1/0	17.60	0.84	18.44	16.29
	693	QPSK	1/0	22.38	0.84	23.22	21.07
		16QAM	1/0	21.44	0.84	22.28	20.13
		64QAM	1/0	20.44	0.84	21.28	19.13
		256QAM	1/0	17.41	0.84	18.25	16.10

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
5M	665.5	QPSK	1/0	22.40	0.84	23.24	21.09
		16QAM	1/0	21.48	0.84	22.32	20.17
		64QAM	1/0	20.49	0.84	21.33	19.18
		256QAM	1/0	17.51	0.84	18.35	16.20
	680.5	QPSK	1/0	22.49	0.84	23.33	21.18
		16QAM	1/0	21.55	0.84	22.39	20.24
		64QAM	1/0	20.64	0.84	21.48	19.33
		256QAM	1/0	17.58	0.84	18.42	16.27
	695.5	QPSK	1/0	22.41	0.84	23.25	21.10
		16QAM	1/0	21.45	0.84	22.29	20.14
		64QAM	1/0	20.50	0.84	21.34	19.19
		256QAM	1/0	17.45	0.84	18.29	16.14

7.1.2. LTE Band 12

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10M	704	QPSK	1/0	22.09	0.56	22.65	20.50
		16QAM	1/0	21.18	0.56	21.74	19.59
		64QAM	1/0	20.17	0.56	20.73	18.58
		256QAM	1/0	17.13	0.56	17.69	15.54
	707.5	QPSK	1/0	22.19	0.56	22.75	20.60
		16QAM	1/0	21.26	0.56	21.82	19.67
		64QAM	1/0	20.24	0.56	20.80	18.65
		256QAM	1/0	17.26	0.56	17.82	15.67
	711	QPSK	1/0	22.11	0.56	22.67	20.52
		16QAM	1/0	21.10	0.56	21.66	19.51
		64QAM	1/0	20.12	0.56	20.68	18.53
		256QAM	1/0	17.17	0.56	17.73	15.58
5M	701.5	QPSK	1/0	22.13	0.56	22.69	20.54
		16QAM	1/0	21.16	0.56	21.72	19.57
		64QAM	1/0	20.14	0.56	20.70	18.55
		256QAM	1/0	17.20	0.56	17.76	15.61
	707.5	QPSK	1/0	22.14	0.56	22.70	20.55
		16QAM	1/0	21.31	0.56	21.87	19.72
		64QAM	1/0	20.28	0.56	20.84	18.69
		256QAM	1/0	17.23	0.56	17.79	15.64
	713.5	QPSK	1/0	22.06	0.56	22.62	20.47
		16QAM	1/0	21.18	0.56	21.74	19.59
		64QAM	1/0	20.17	0.56	20.73	18.58
		256QAM	1/0	17.17	0.56	17.73	15.58
3M	700.5	QPSK	1/0	22.09	0.56	22.65	20.50
		16QAM	1/0	21.18	0.56	21.74	19.59
		64QAM	1/0	20.13	0.56	20.69	18.54
		256QAM	1/0	17.16	0.56	17.72	15.57
	707.5	QPSK	1/0	22.11	0.56	22.67	20.52
		16QAM	1/0	21.24	0.56	21.80	19.65
		64QAM	1/0	20.24	0.56	20.80	18.65
		256QAM	1/0	17.30	0.56	17.86	15.71
	714.5	QPSK	1/0	22.08	0.56	22.64	20.49
		16QAM	1/0	21.15	0.56	21.71	19.56
		64QAM	1/0	20.18	0.56	20.74	18.59
		256QAM	1/0	17.16	0.56	17.72	15.57
1.4M	699.7	QPSK	1/0	22.09	0.56	22.65	20.50
		16QAM	1/0	21.22	0.56	21.78	19.63
		64QAM	1/0	20.14	0.56	20.70	18.55
		256QAM	1/0	17.21	0.56	17.77	15.62
	707.5	QPSK	1/0	22.14	0.56	22.70	20.55
		16QAM	1/0	21.31	0.56	21.87	19.72
		64QAM	1/0	20.28	0.56	20.84	18.69
		256QAM	1/0	17.24	0.56	17.80	15.65
	715.3	QPSK	1/0	22.13	0.56	22.69	20.54
		16QAM	1/0	21.09	0.56	21.65	19.50
		64QAM	1/0	20.12	0.56	20.68	18.53
		256QAM	1/0	17.13	0.56	17.69	15.54

LTE ULCA(12B)

PCC/SCC	Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
PCC	5	703.8	QPSK	1/24	23.66	0.56	24.22	22.07
SCC	10	711	QPSK	1/0				
PCC	5	702.7	16QAM	1/24	23.41	0.56	23.97	21.82
SCC	10	709.9	16QAM	1/0				
PCC	5	708.7	QPSK	1/24	23.52	0.56	24.08	21.93
SCC	5	713.5	QPSK	1/0				
PCC	5	705.1	16QAM	1/24	23.05	0.56	23.61	21.46
SCC	5	709.9	16QAM	1/0				

7.1.3. LTE Band 17

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10M	709	QPSK	1/0	22.14	0.56	22.70	20.55
		16QAM	1/0	21.26	0.56	21.82	19.67
		64QAM	1/0	20.28	0.56	20.84	18.69
		256QAM	1/0	17.24	0.56	17.80	15.65
	710	QPSK	1/0	22.26	0.56	22.82	20.67
		16QAM	1/0	21.38	0.56	21.94	19.79
		64QAM	1/0	20.38	0.56	20.94	18.79
		256QAM	1/0	17.31	0.56	17.87	15.72
	711	QPSK	1/0	22.17	0.56	22.73	20.58
		16QAM	1/0	21.22	0.56	21.78	19.63
		64QAM	1/0	20.18	0.56	20.74	18.59
		256QAM	1/0	17.18	0.56	17.74	15.59
5M	706.5	QPSK	1/0	22.16	0.56	22.72	20.57
		16QAM	1/0	21.19	0.56	21.75	19.60
		64QAM	1/0	20.21	0.56	20.77	18.62
		256QAM	1/0	17.19	0.56	17.75	15.60
	710	QPSK	1/0	22.25	0.56	22.81	20.66
		16QAM	1/0	21.35	0.56	21.91	19.76
		64QAM	1/0	20.31	0.56	20.87	18.72
		256QAM	1/0	17.32	0.56	17.88	15.73
	713.5	QPSK	1/0	22.12	0.56	22.68	20.53
		16QAM	1/0	21.18	0.56	21.74	19.59
		64QAM	1/0	20.19	0.56	20.75	18.60
		256QAM	1/0	17.24	0.56	17.80	15.65

7.1.4. LTE Band 13

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10M	782	QPSK	1/0	22.27	0.56	22.83	20.68
		16QAM	1/0	21.27	0.56	21.83	19.68
		64QAM	1/0	20.34	0.56	20.90	18.75
		256QAM	1/0	17.33	0.56	17.89	15.74
5M	779.5	QPSK	1/0	22.21	0.56	22.77	20.62
		16QAM	1/0	21.12	0.56	21.68	19.53
		64QAM	1/0	20.19	0.56	20.75	18.60
		256QAM	1/0	17.17	0.56	17.73	15.58
	782	QPSK	1/0	22.18	0.56	22.74	20.59
		16QAM	1/0	21.24	0.56	21.80	19.65
		64QAM	1/0	20.25	0.56	20.81	18.66
		256QAM	1/0	17.28	0.56	17.84	15.69
	784.5	QPSK	1/0	22.20	0.56	22.76	20.61
		16QAM	1/0	21.21	0.56	21.77	19.62
		64QAM	1/0	20.15	0.56	20.71	18.56
		256QAM	1/0	17.21	0.56	17.77	15.62

7.1.5. LTE Band 14

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10M	793	QPSK	1/0	22.31	0.56	22.87	20.72
		16QAM	1/0	21.28	0.56	21.84	19.69
		64QAM	1/0	20.27	0.56	20.83	18.68
		256QAM	1/0	17.27	0.56	17.83	15.68
5M	790.5	QPSK	1/0	22.14	0.56	22.70	20.55
		16QAM	1/0	21.23	0.56	21.79	19.64
		64QAM	1/0	20.22	0.56	20.78	18.63
		256QAM	1/0	17.27	0.56	17.83	15.68
	793	QPSK	1/0	22.28	0.56	22.84	20.69
		16QAM	1/0	21.33	0.56	21.89	19.74
		64QAM	1/0	20.31	0.56	20.87	18.72
		256QAM	1/0	17.34	0.56	17.90	15.75
	795.5	QPSK	1/0	22.09	0.56	22.65	20.50
		16QAM	1/0	21.21	0.56	21.77	19.62
		64QAM	1/0	20.19	0.56	20.75	18.60
		256QAM	1/0	17.23	0.56	17.79	15.64

7.1.6. LTE Band 26 (814 ~ 824 MHz)

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
15M	821.5	QPSK	1/0	22.43	0.19	22.62	20.47
		16QAM	1/0	21.29	0.19	21.48	19.33
		64QAM	1/0	20.28	0.19	20.47	18.32
		256QAM	1/0	17.47	0.19	17.66	15.51
10M	819	QPSK	1/0	22.41	0.19	22.60	20.45
		16QAM	1/0	21.24	0.19	21.43	19.28
		64QAM	1/0	20.26	0.19	20.45	18.30
		256QAM	1/0	17.44	0.19	17.63	15.48
5M	816.5	QPSK	1/0	22.35	0.19	22.54	20.39
		16QAM	1/0	21.24	0.19	21.43	19.28
		64QAM	1/0	20.23	0.19	20.42	18.27
		256QAM	1/0	17.41	0.19	17.60	15.45
	819	QPSK	1/0	22.41	0.19	22.60	20.45
		16QAM	1/0	21.40	0.19	21.59	19.44
		64QAM	1/0	20.24	0.19	20.43	18.28
		256QAM	1/0	17.50	0.19	17.69	15.54
	821.5	QPSK	1/0	22.40	0.19	22.59	20.44
		16QAM	1/0	21.26	0.19	21.45	19.30
		64QAM	1/0	20.29	0.19	20.48	18.33
		256QAM	1/0	17.47	0.19	17.66	15.51
3M	815.5	QPSK	1/0	22.23	0.19	22.42	20.27
		16QAM	1/0	21.25	0.19	21.44	19.29
		64QAM	1/0	20.16	0.19	20.35	18.20
		256QAM	1/0	17.40	0.19	17.59	15.44
	819	QPSK	1/0	22.43	0.19	22.62	20.47
		16QAM	1/0	21.31	0.19	21.50	19.35
		64QAM	1/0	20.26	0.19	20.45	18.30
		256QAM	1/0	17.53	0.19	17.72	15.57
	822.5	QPSK	1/0	22.38	0.19	22.57	20.42
		16QAM	1/0	21.33	0.19	21.52	19.37
		64QAM	1/0	20.25	0.19	20.44	18.29
		256QAM	1/0	17.47	0.19	17.66	15.51
1.4M	814.7	QPSK	1/0	22.42	0.19	22.61	20.46
		16QAM	1/0	21.23	0.19	21.42	19.27
		64QAM	1/0	20.24	0.19	20.43	18.28
		256QAM	1/0	17.45	0.19	17.64	15.49
	819	QPSK	1/0	22.44	0.19	22.63	20.48
		16QAM	1/0	21.29	0.19	21.48	19.33
		64QAM	1/0	20.33	0.19	20.52	18.37
		256QAM	1/0	17.50	0.19	17.69	15.54
	823.3	QPSK	1/0	22.39	0.19	22.58	20.43
		16QAM	1/0	21.31	0.19	21.50	19.35
		64QAM	1/0	20.29	0.19	20.48	18.33
		256QAM	1/0	17.40	0.19	17.59	15.44

7.1.7. LTE Band 26 (824 ~ 849 MHz)

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
15M	831.5	QPSK	1/0	22.48	0.19	22.67	20.52
		16QAM	1/0	21.37	0.19	21.56	19.41
		64QAM	1/0	20.33	0.19	20.52	18.37
		256QAM	1/0	17.57	0.19	17.76	15.61
	836.5	QPSK	1/0	22.54	0.19	22.73	20.58
		16QAM	1/0	21.47	0.19	21.66	19.51
		64QAM	1/0	20.45	0.19	20.64	18.49
		256QAM	1/0	17.65	0.19	17.84	15.69
	841.5	QPSK	1/0	22.51	0.19	22.70	20.55
		16QAM	1/0	21.48	0.19	21.67	19.52
		64QAM	1/0	20.39	0.19	20.58	18.43
		256QAM	1/0	17.63	0.19	17.82	15.67
10M	829	QPSK	1/0	22.38	0.19	22.57	20.42
		16QAM	1/0	21.40	0.19	21.59	19.44
		64QAM	1/0	20.36	0.19	20.55	18.40
		256QAM	1/0	17.53	0.19	17.72	15.57
	836.5	QPSK	1/0	22.45	0.19	22.64	20.49
		16QAM	1/0	21.35	0.19	21.54	19.39
		64QAM	1/0	20.44	0.19	20.63	18.48
		256QAM	1/0	17.60	0.19	17.79	15.64
	844	QPSK	1/0	22.44	0.19	22.63	20.48
		16QAM	1/0	21.42	0.19	21.61	19.46
		64QAM	1/0	20.40	0.19	20.59	18.44
		256QAM	1/0	17.55	0.19	17.74	15.59
5M	826.5	QPSK	1/0	22.24	0.19	22.43	20.28
		16QAM	1/0	21.29	0.19	21.48	19.33
		64QAM	1/0	20.34	0.19	20.53	18.38
		256QAM	1/0	17.35	0.19	17.54	15.39
	836.5	QPSK	1/0	22.43	0.19	22.62	20.47
		16QAM	1/0	21.32	0.19	21.51	19.36
		64QAM	1/0	20.43	0.19	20.62	18.47
		256QAM	1/0	17.55	0.19	17.74	15.59
	846.5	QPSK	1/0	22.27	0.19	22.46	20.31
		16QAM	1/0	21.26	0.19	21.45	19.30
		64QAM	1/0	20.45	0.19	20.64	18.49
		256QAM	1/0	17.40	0.19	17.59	15.44
3M	825.5	QPSK	1/0	22.31	0.19	22.50	20.35
		16QAM	1/0	21.32	0.19	21.51	19.36
		64QAM	1/0	20.33	0.19	20.52	18.37
		256QAM	1/0	17.45	0.19	17.64	15.49
	836.5	QPSK	1/0	22.43	0.19	22.62	20.47
		16QAM	1/0	21.33	0.19	21.52	19.37
		64QAM	1/0	20.39	0.19	20.58	18.43
		256QAM	1/0	17.40	0.19	17.59	15.44
	847.5	QPSK	1/0	22.46	0.19	22.65	20.50
		16QAM	1/0	21.45	0.19	21.64	19.49
		64QAM	1/0	20.44	0.19	20.63	18.48
		256QAM	1/0	17.59	0.19	17.78	15.63

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
1.4M	824.7	QPSK	1/0	22.35	0.19	22.54	20.39
		16QAM	1/0	21.24	0.19	21.43	19.28
		64QAM	1/0	20.33	0.19	20.52	18.37
		256QAM	1/0	17.48	0.19	17.67	15.52
	836.5	QPSK	1/0	22.47	0.19	22.66	20.51
		16QAM	1/0	21.32	0.19	21.51	19.36
		64QAM	1/0	20.32	0.19	20.51	18.36
		256QAM	1/0	17.42	0.19	17.61	15.46
	848.3	QPSK	1/0	22.49	0.19	22.68	20.53
		16QAM	1/0	21.37	0.19	21.56	19.41
		64QAM	1/0	20.38	0.19	20.57	18.42
		256QAM	1/0	17.61	0.19	17.80	15.65

7.1.8. LTE Band 5

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10M	829	QPSK	1/0	22.48	0.19	22.67	20.52
		16QAM	1/0	21.33	0.19	21.52	19.37
		64QAM	1/0	20.38	0.19	20.57	18.42
		256QAM	1/0	17.43	0.19	17.62	15.47
	836.5	QPSK	1/0	22.61	0.19	22.80	20.65
		16QAM	1/0	21.58	0.19	21.77	19.62
		64QAM	1/0	20.48	0.19	20.67	18.52
		256QAM	1/0	17.60	0.19	17.79	15.64
	844	QPSK	1/0	22.42	0.19	22.61	20.46
		16QAM	1/0	21.35	0.19	21.54	19.39
		64QAM	1/0	20.27	0.19	20.46	18.31
		256QAM	1/0	17.31	0.19	17.50	15.35
5M	826.5	QPSK	1/0	22.53	0.19	22.72	20.57
		16QAM	1/0	21.47	0.19	21.66	19.51
		64QAM	1/0	20.38	0.19	20.57	18.42
		256QAM	1/0	17.46	0.19	17.65	15.50
	836.5	QPSK	1/0	22.46	0.19	22.65	20.50
		16QAM	1/0	21.56	0.19	21.75	19.60
		64QAM	1/0	20.33	0.19	20.52	18.37
		256QAM	1/0	17.46	0.19	17.65	15.50
	846.5	QPSK	1/0	22.59	0.19	22.78	20.63
		16QAM	1/0	21.47	0.19	21.66	19.51
		64QAM	1/0	20.40	0.19	20.59	18.44
		256QAM	1/0	17.54	0.19	17.73	15.58

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
3M	825.5	QPSK	1/0	22.55	0.19	22.74	20.59
		16QAM	1/0	21.45	0.19	21.64	19.49
		64QAM	1/0	20.46	0.19	20.65	18.50
		256QAM	1/0	17.45	0.19	17.64	15.49
	836.5	QPSK	1/0	22.56	0.19	22.75	20.60
		16QAM	1/0	21.45	0.19	21.64	19.49
		64QAM	1/0	20.47	0.19	20.66	18.51
		256QAM	1/0	17.48	0.19	17.67	15.52
	847.5	QPSK	1/0	22.45	0.19	22.64	20.49
		16QAM	1/0	21.42	0.19	21.61	19.46
		64QAM	1/0	20.31	0.19	20.50	18.35
		256QAM	1/0	17.43	0.19	17.62	15.47
1.4M	824.7	QPSK	1/0	22.45	0.19	22.64	20.49
		16QAM	1/0	21.44	0.19	21.63	19.48
		64QAM	1/0	20.38	0.19	20.57	18.42
		256QAM	1/0	17.51	0.19	17.70	15.55
	836.5	QPSK	1/0	22.60	0.19	22.79	20.64
		16QAM	1/0	21.53	0.19	21.72	19.57
		64QAM	1/0	20.43	0.19	20.62	18.47
		256QAM	1/0	17.41	0.19	17.60	15.45
	848.3	QPSK	1/0	22.46	0.19	22.65	20.50
		16QAM	1/0	21.54	0.19	21.73	19.58
		64QAM	1/0	20.44	0.19	20.63	18.48
		256QAM	1/0	17.53	0.19	17.72	15.57

LTE ULCA(5B)

PCC/ SCC	Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
PCC	10	834.1	QPSK	1/49	24.13	0.19	24.32	22.17
SCC	10	844	QPSK	1/0				
PCC	10	829	16QAM	1/49	23.85	0.19	24.04	21.89
SCC	10	838.9	16QAM	1/0				
PCC	10	839.3	QPSK	1/49	23.89	0.19	24.08	21.93
SCC	5	846.5	QPSK	1/0				
PCC	10	829	16QAM	1/49	23.50	0.19	23.69	21.54
SCC	5	836.2	16QAM	1/0				
PCC	5	836.8	QPSK	1/24	24.18	0.19	24.37	22.22
SCC	10	844	QPSK	1/0				
PCC	5	831.7	16QAM	1/24	23.72	0.19	23.91	21.76
SCC	10	838.9	16QAM	1/0				
PCC	5	843.6	QPSK	12/13	24.08	0.19	24.27	22.12
SCC	3	847.5	QPSK	8/0				
PCC	5	826.5	16QAM	1/24	23.40	0.19	23.59	21.44
SCC	3	830.4	16QAM	1/0				
PCC	3	842.6	QPSK	8/7	24.12	0.19	24.31	22.16
SCC	5	846.5	QPSK	12/0				
PCC	3	834.1	16QAM	1/14	23.64	0.19	23.83	21.68
SCC	5	838	16QAM	1/0				

7.1.9. LTE Band 66

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
20M	1720	QPSK	1/0	22.47	2.40	24.87
		16QAM	1/0	21.40	2.40	23.80
		64QAM	1/0	20.33	2.40	22.73
		256QAM	1/0	17.45	2.40	19.85
	1745	QPSK	1/0	22.49	2.40	24.89
		16QAM	1/0	21.41	2.40	23.81
		64QAM	1/0	20.45	2.40	22.85
		256QAM	1/0	17.52	2.40	19.92
	1770	QPSK	1/0	22.48	2.40	24.88
		16QAM	1/0	21.37	2.40	23.77
		64QAM	1/0	20.33	2.40	22.73
		256QAM	1/0	17.47	2.40	19.87
15M	1717.5	QPSK	1/0	22.47	2.40	24.87
		16QAM	1/0	21.33	2.40	23.73
		64QAM	1/0	20.38	2.40	22.78
		256QAM	1/0	17.50	2.40	19.90
	1745	QPSK	1/0	22.39	2.40	24.79
		16QAM	1/0	21.39	2.40	23.79
		64QAM	1/0	20.40	2.40	22.80
		256QAM	1/0	17.46	2.40	19.86
	1772.5	QPSK	1/0	22.46	2.40	24.86
		16QAM	1/0	21.35	2.40	23.75
		64QAM	1/0	20.29	2.40	22.69
		256QAM	1/0	17.48	2.40	19.88
10M	1715	QPSK	1/0	22.38	2.40	24.78
		16QAM	1/0	21.40	2.40	23.80
		64QAM	1/0	20.35	2.40	22.75
		256QAM	1/0	17.37	2.40	19.77
	1745	QPSK	1/0	22.44	2.40	24.84
		16QAM	1/0	21.28	2.40	23.68
		64QAM	1/0	20.37	2.40	22.77
		256QAM	1/0	17.50	2.40	19.90
	1775	QPSK	1/0	22.39	2.40	24.79
		16QAM	1/0	21.38	2.40	23.78
		64QAM	1/0	20.43	2.40	22.83
		256QAM	1/0	17.50	2.40	19.90

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
5M	1712.5	QPSK	1/0	22.38	2.40	24.78
		16QAM	1/0	21.39	2.40	23.79
		64QAM	1/0	20.36	2.40	22.76
		256QAM	1/0	17.46	2.40	19.86
	1745	QPSK	1/0	22.43	2.40	24.83
		16QAM	1/0	21.35	2.40	23.75
		64QAM	1/0	20.36	2.40	22.76
		256QAM	1/0	17.48	2.40	19.88
	1777.5	QPSK	1/0	22.42	2.40	24.82
		16QAM	1/0	21.38	2.40	23.78
		64QAM	1/0	20.40	2.40	22.80
		256QAM	1/0	17.40	2.40	19.80
3M	1711.5	QPSK	1/0	22.36	2.40	24.76
		16QAM	1/0	21.36	2.40	23.76
		64QAM	1/0	20.35	2.40	22.75
		256QAM	1/0	17.46	2.40	19.86
	1745	QPSK	1/0	22.44	2.40	24.84
		16QAM	1/0	21.38	2.40	23.78
		64QAM	1/0	20.36	2.40	22.76
		256QAM	1/0	17.45	2.40	19.85
	1778.5	QPSK	1/0	22.41	2.40	24.81
		16QAM	1/0	21.40	2.40	23.80
		64QAM	1/0	20.40	2.40	22.80
		256QAM	1/0	17.37	2.40	19.77
1.4M	1710.7	QPSK	1/0	22.47	2.40	24.87
		16QAM	1/0	21.37	2.40	23.77
		64QAM	1/0	20.34	2.40	22.74
		256QAM	1/0	17.45	2.40	19.85
	1745	QPSK	1/0	22.45	2.40	24.85
		16QAM	1/0	21.29	2.40	23.69
		64QAM	1/0	20.40	2.40	22.80
		256QAM	1/0	17.47	2.40	19.87
	1779.3	QPSK	1/0	22.47	2.40	24.87
		16QAM	1/0	21.38	2.40	23.78
		64QAM	1/0	20.41	2.40	22.81
		256QAM	1/0	17.47	2.40	19.87

LTE ULCA(66B)

PCC/ SCC	Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
PCC	15	1742.9	QPSK	1/74	22.35	2.40	24.75
SCC	5	1752.2	QPSK	1/0			
PCC	15	1717.5	16QAM	1/0	21.98	2.40	24.38
SCC	5	1726.8	16QAM	0/0			
PCC	10	1715	QPSK	1/49	22.49	2.40	24.89
SCC	10	1724.9	QPSK	1/0			
PCC	10	1715	16QAM	1/49	21.73	2.40	24.13
SCC	10	1724.9	16QAM	1/0			
PCC	10	1715	QPSK	1/0	22.52	2.40	24.92
SCC	5	1722.2	QPSK	0/0			
PCC	10	1715	16QAM	1/0	21.69	2.40	24.09
SCC	5	1722.2	16QAM	0/0			
PCC	5	1712.5	QPSK	1/24	23.03	2.40	25.43
SCC	15	1721.8	QPSK	1/0			
PCC	5	1712.5	16QAM	1/24	22.48	2.40	24.88
SCC	15	1721.8	16QAM	1/0			
PCC	5	1712.5	QPSK	1/24	22.77	2.40	25.17
SCC	10	1719.7	QPSK	1/0			
PCC	5	1712.5	16QAM	1/24	21.98	2.40	24.38
SCC	10	1719.7	16QAM	1/0			
PCC	5	1712.5	QPSK	1/24	22.67	2.40	25.07
SCC	5	1717.3	QPSK	1/0			
PCC	5	1712.5	16QAM	1/24	21.57	2.40	23.97
SCC	5	1717.3	16QAM	1/0			

LTE ULCA(66C)

PCC/ SCC	Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
PCC	20	1720	QPSK	1/99	22.62	2.40	25.02
SCC	20	1739.8	QPSK	1/0			
PCC	20	1720	16QAM	1/99	21.73	2.40	24.13
SCC	20	1739.8	16QAM	1/0			
PCC	20	1720	QPSK	1/0	22.28	2.40	24.68
SCC	15	1737.1	QPSK	0/0			
PCC	20	1720	16QAM	1/0	21.66	2.40	24.06
SCC	15	1737.1	16QAM	0/0			
PCC	20	1720	QPSK	1/0	22.41	2.40	24.81
SCC	10	1734.4	QPSK	0/0			
PCC	20	1720	16QAM	1/0	21.59	2.40	23.99
SCC	10	1734.4	16QAM	0/0			
PCC	20	1720	QPSK	1/99	22.35	2.40	24.75
SCC	5	1731.7	QPSK	1/0			
PCC	20	1720	16QAM	1/0	21.17	2.40	23.57
SCC	5	1731.7	16QAM	0/0			
PCC	15	1735.2	QPSK	1/74	22.12	2.40	24.52
SCC	20	1752.3	QPSK	1/0			
PCC	15	1735.2	16QAM	1/74	21.49	2.40	23.89
SCC	20	1752.3	16QAM	1/0			
PCC	15	1717.5	QPSK	1/74	22.12	2.40	24.52
SCC	15	1732.5	QPSK	1/0			
PCC	15	1717.5	16QAM	1/74	21.49	2.40	23.89
SCC	15	1732.5	16QAM	1/0			
PCC	15	1717.5	QPSK	1/74	22.33	2.40	24.73
SCC	10	1729.5	QPSK	1/0			
PCC	15	1717.5	16QAM	1/0	21.51	2.40	23.91
SCC	10	1729.5	16QAM	0/0			
PCC	10	1715	QPSK	1/0	22.42	2.40	24.82
SCC	20	1729.4	QPSK	0/0			
PCC	10	1715	16QAM	1/0	21.76	2.40	24.16
SCC	20	1729.4	16QAM	0/0			
PCC	10	1715	QPSK	1/49	22.54	2.40	24.94
SCC	15	1727	QPSK	1/0			
PCC	10	1715	16QAM	1/49	21.61	2.40	24.01
SCC	15	1727	16QAM	1/0			
PCC	5	1712.5	QPSK	1/24	22.87	2.40	25.27
SCC	20	1724.2	QPSK	1/0			
PCC	5	1712.5	16QAM	1/24	21.60	2.40	24.00
SCC	20	1724.2	16QAM	1/0			

7.1.10. LTE Band 4

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
20M	1720	QPSK	1/0	22.69	2.40	25.09
		16QAM	1/0	21.56	2.40	23.96
		64QAM	1/0	20.60	2.40	23.00
		256QAM	1/0	17.83	2.40	20.23
	1732.5	QPSK	1/0	22.75	2.40	25.15
		16QAM	1/0	21.66	2.40	24.06
		64QAM	1/0	20.72	2.40	23.12
		256QAM	1/0	17.91	2.40	20.31
	1745	QPSK	1/0	22.72	2.40	25.12
		16QAM	1/0	21.67	2.40	24.07
		64QAM	1/0	20.66	2.40	23.06
		256QAM	1/0	17.89	2.40	20.29
15M	1717.5	QPSK	1/0	22.64	2.40	25.04
		16QAM	1/0	21.52	2.40	23.92
		64QAM	1/0	20.58	2.40	22.98
		256QAM	1/0	17.81	2.40	20.21
	1732.5	QPSK	1/0	22.71	2.40	25.11
		16QAM	1/0	21.53	2.40	23.93
		64QAM	1/0	20.69	2.40	23.09
		256QAM	1/0	17.88	2.40	20.28
	1747.5	QPSK	1/0	22.70	2.40	25.10
		16QAM	1/0	21.60	2.40	24.00
		64QAM	1/0	20.59	2.40	22.99
		256QAM	1/0	17.83	2.40	20.23
10M	1715	QPSK	1/0	22.58	2.40	24.98
		16QAM	1/0	21.55	2.40	23.95
		64QAM	1/0	20.54	2.40	22.94
		256QAM	1/0	17.73	2.40	20.13
	1732.5	QPSK	1/0	22.71	2.40	25.11
		16QAM	1/0	21.65	2.40	24.05
		64QAM	1/0	20.63	2.40	23.03
		256QAM	1/0	17.83	2.40	20.23
	1750	QPSK	1/0	22.61	2.40	25.01
		16QAM	1/0	21.59	2.40	23.99
		64QAM	1/0	20.65	2.40	23.05
		256QAM	1/0	17.65	2.40	20.05

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
5M	1712.5	QPSK	1/0	22.56	2.40	24.96
		16QAM	1/0	21.51	2.40	23.91
		64QAM	1/0	20.54	2.40	22.94
		256QAM	1/0	17.71	2.40	20.11
	1732.5	QPSK	1/0	22.68	2.40	25.08
		16QAM	1/0	21.52	2.40	23.92
		64QAM	1/0	20.60	2.40	23.00
		256QAM	1/0	17.65	2.40	20.05
	1752.5	QPSK	1/0	22.70	2.40	25.10
		16QAM	1/0	21.64	2.40	24.04
		64QAM	1/0	20.63	2.40	23.03
		256QAM	1/0	17.84	2.40	20.24
3M	1711.5	QPSK	1/0	22.58	2.40	24.98
		16QAM	1/0	21.55	2.40	23.95
		64QAM	1/0	20.59	2.40	22.99
		256QAM	1/0	17.63	2.40	20.03
	1732.5	QPSK	1/0	22.70	2.40	25.10
		16QAM	1/0	21.62	2.40	24.02
		64QAM	1/0	20.56	2.40	22.96
		256QAM	1/0	17.81	2.40	20.21
	1753.5	QPSK	1/0	22.67	2.40	25.07
		16QAM	1/0	21.62	2.40	24.02
		64QAM	1/0	20.61	2.40	23.01
		256QAM	1/0	17.85	2.40	20.25
1.4M	1710.7	QPSK	1/0	22.59	2.40	24.99
		16QAM	1/0	21.54	2.40	23.94
		64QAM	1/0	20.57	2.40	22.97
		256QAM	1/0	17.49	2.40	19.89
	1732.5	QPSK	1/0	22.67	2.40	25.07
		16QAM	1/0	21.60	2.40	24.00
		64QAM	1/0	20.71	2.40	23.11
		256QAM	1/0	17.76	2.40	20.16
	1754.3	QPSK	1/0	22.70	2.40	25.10
		16QAM	1/0	21.61	2.40	24.01
		64QAM	1/0	20.61	2.40	23.01
		256QAM	1/0	17.85	2.40	20.25

7.1.11. LTE Band 25

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
20M	1860	QPSK	1/0	22.25	2.40	24.65
		16QAM	1/0	21.10	2.40	23.50
		64QAM	1/0	20.25	2.40	22.65
		256QAM	1/0	17.15	2.40	19.55
	1882.5	QPSK	1/0	22.31	2.40	24.71
		16QAM	1/0	21.15	2.40	23.55
		64QAM	1/0	20.13	2.40	22.53
		256QAM	1/0	17.36	2.40	19.76
	1905	QPSK	1/0	22.28	2.40	24.68
		16QAM	1/0	21.26	2.40	23.66
		64QAM	1/0	20.19	2.40	22.59
		256QAM	1/0	17.35	2.40	19.75
15M	1857.5	QPSK	1/0	22.22	2.40	24.62
		16QAM	1/0	21.13	2.40	23.53
		64QAM	1/0	20.28	2.40	22.68
		256QAM	1/0	17.23	2.40	19.63
	1882.5	QPSK	1/0	22.25	2.40	24.65
		16QAM	1/0	21.18	2.40	23.58
		64QAM	1/0	20.20	2.40	22.60
		256QAM	1/0	17.39	2.40	19.79
	1907.5	QPSK	1/0	22.28	2.40	24.68
		16QAM	1/0	21.30	2.40	23.70
		64QAM	1/0	20.25	2.40	22.65
		256QAM	1/0	17.42	2.40	19.82
10M	1855	QPSK	1/0	22.30	2.40	24.70
		16QAM	1/0	21.27	2.40	23.67
		64QAM	1/0	20.27	2.40	22.67
		256QAM	1/0	17.33	2.40	19.73
	1882.5	QPSK	1/0	22.28	2.40	24.68
		16QAM	1/0	21.25	2.40	23.65
		64QAM	1/0	20.23	2.40	22.63
		256QAM	1/0	17.40	2.40	19.80
	1910	QPSK	1/0	22.25	2.40	24.65
		16QAM	1/0	21.34	2.40	23.74
		64QAM	1/0	20.22	2.40	22.62
		256QAM	1/0	17.31	2.40	19.71

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
5M	1852.5	QPSK	1/0	22.25	2.40	24.65
		16QAM	1/0	21.17	2.40	23.57
		64QAM	1/0	20.26	2.40	22.66
		256QAM	1/0	17.23	2.40	19.63
	1882.5	QPSK	1/0	22.29	2.40	24.69
		16QAM	1/0	21.29	2.40	23.69
		64QAM	1/0	20.20	2.40	22.60
		256QAM	1/0	17.39	2.40	19.79
	1912.5	QPSK	1/0	22.28	2.40	24.68
		16QAM	1/0	21.26	2.40	23.66
		64QAM	1/0	20.27	2.40	22.67
		256QAM	1/0	17.41	2.40	19.81
3M	1851.5	QPSK	1/0	22.29	2.40	24.69
		16QAM	1/0	21.26	2.40	23.66
		64QAM	1/0	20.40	2.40	22.80
		256QAM	1/0	17.33	2.40	19.73
	1882.5	QPSK	1/0	22.30	2.40	24.70
		16QAM	1/0	21.22	2.40	23.62
		64QAM	1/0	20.19	2.40	22.59
		256QAM	1/0	17.46	2.40	19.86
	1913.5	QPSK	1/0	22.28	2.40	24.68
		16QAM	1/0	21.29	2.40	23.69
		64QAM	1/0	20.24	2.40	22.64
		256QAM	1/0	17.31	2.40	19.71
1.4M	1850.7	QPSK	1/0	22.28	2.40	24.68
		16QAM	1/0	21.23	2.40	23.63
		64QAM	1/0	20.31	2.40	22.71
		256QAM	1/0	17.25	2.40	19.65
	1882.5	QPSK	1/0	22.30	2.40	24.70
		16QAM	1/0	21.21	2.40	23.61
		64QAM	1/0	20.19	2.40	22.59
		256QAM	1/0	17.44	2.40	19.84
	1914.3	QPSK	1/0	22.25	2.40	24.65
		16QAM	1/0	21.31	2.40	23.71
		64QAM	1/0	20.26	2.40	22.66
		256QAM	1/0	17.44	2.40	19.84

7.1.12. LTE Band 2

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
20M	1860	QPSK	1/0	22.67	2.40	25.07
		16QAM	1/0	21.66	2.40	24.06
		64QAM	1/0	20.65	2.40	23.05
		256QAM	1/0	17.59	2.40	19.99
	1880	QPSK	1/0	22.73	2.40	25.13
		16QAM	1/0	21.60	2.40	24.00
		64QAM	1/0	20.67	2.40	23.07
		256QAM	1/0	17.67	2.40	20.07
	1900	QPSK	1/0	22.60	2.40	25.00
		16QAM	1/0	21.59	2.40	23.99
		64QAM	1/0	20.54	2.40	22.94
		256QAM	1/0	17.59	2.40	19.99
15M	1857.5	QPSK	1/0	22.52	2.40	24.92
		16QAM	1/0	21.52	2.40	23.92
		64QAM	1/0	20.58	2.40	22.98
		256QAM	1/0	17.51	2.40	19.91
	1880	QPSK	1/0	22.66	2.40	25.06
		16QAM	1/0	21.58	2.40	23.98
		64QAM	1/0	20.66	2.40	23.06
		256QAM	1/0	17.58	2.40	19.98
	1902.5	QPSK	1/0	22.55	2.40	24.95
		16QAM	1/0	21.53	2.40	23.93
		64QAM	1/0	20.52	2.40	22.92
		256QAM	1/0	17.58	2.40	19.98
10M	1855	QPSK	1/0	22.56	2.40	24.96
		16QAM	1/0	21.57	2.40	23.97
		64QAM	1/0	20.62	2.40	23.02
		256QAM	1/0	17.52	2.40	19.92
	1880	QPSK	1/0	22.65	2.40	25.05
		16QAM	1/0	21.58	2.40	23.98
		64QAM	1/0	20.59	2.40	22.99
		256QAM	1/0	17.66	2.40	20.06
	1905	QPSK	1/0	22.51	2.40	24.91
		16QAM	1/0	21.55	2.40	23.95
		64QAM	1/0	20.53	2.40	22.93
		256QAM	1/0	17.56	2.40	19.96

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
5M	1852.5	QPSK	1/0	22.62	2.40	25.02
		16QAM	1/0	21.61	2.40	24.01
		64QAM	1/0	20.61	2.40	23.01
		256QAM	1/0	17.55	2.40	19.95
	1880	QPSK	1/0	22.66	2.40	25.06
		16QAM	1/0	21.57	2.40	23.97
		64QAM	1/0	20.59	2.40	22.99
		256QAM	1/0	17.66	2.40	20.06
	1907.5	QPSK	1/0	22.51	2.40	24.91
		16QAM	1/0	21.58	2.40	23.98
		64QAM	1/0	20.54	2.40	22.94
		256QAM	1/0	17.58	2.40	19.98
3M	1851.5	QPSK	1/0	22.59	2.40	24.99
		16QAM	1/0	21.57	2.40	23.97
		64QAM	1/0	20.55	2.40	22.95
		256QAM	1/0	17.52	2.40	19.92
	1880	QPSK	1/0	22.64	2.40	25.04
		16QAM	1/0	21.59	2.40	23.99
		64QAM	1/0	20.61	2.40	23.01
		256QAM	1/0	17.62	2.40	20.02
	1908.5	QPSK	1/0	22.57	2.40	24.97
		16QAM	1/0	21.55	2.40	23.95
		64QAM	1/0	20.53	2.40	22.93
		256QAM	1/0	17.49	2.40	19.89
1.4M	1850.7	QPSK	1/0	22.64	2.40	25.04
		16QAM	1/0	21.56	2.40	23.96
		64QAM	1/0	20.58	2.40	22.98
		256QAM	1/0	17.54	2.40	19.94
	1880	QPSK	1/0	22.60	2.40	25.00
		16QAM	1/0	21.56	2.40	23.96
		64QAM	1/0	20.61	2.40	23.01
		256QAM	1/0	17.65	2.40	20.05
	1909.3	QPSK	1/0	22.49	2.40	24.89
		16QAM	1/0	21.48	2.40	23.88
		64QAM	1/0	20.53	2.40	22.93
		256QAM	1/0	17.51	2.40	19.91

LTE ULCA(2C)

PCC/ SCC	Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
PCC	20	1880.2	QPSK	1/99	23.51	2.40	25.91
SCC	20	1900	QPSK	1/0			
PCC	20	1880.2	16QAM	1/99	23.08	2.40	25.48
SCC	20	1900	16QAM	1/0			
PCC	20	1885.4	QPSK	1/99	23.71	2.40	26.11
SCC	15	1902.5	QPSK	1/0			
PCC	20	1885.4	16QAM	1/99	22.95	2.40	25.35
SCC	15	1902.5	16QAM	1/0			
PCC	20	1890.6	QPSK	1/99	23.60	2.40	26.00
SCC	10	1905	QPSK	1/0			
PCC	20	1890.6	16QAM	1/99	22.85	2.40	25.25
SCC	10	1905	16QAM	1/0			
PCC	20	1895.8	QPSK	1/99	23.70	2.40	26.10
SCC	5	1907.5	QPSK	1/0			
PCC	20	1895.8	16QAM	1/99	22.95	2.40	25.35
SCC	5	1907.5	16QAM	1/0			
PCC	15	1882.9	QPSK	1/74	23.48	2.40	25.88
SCC	20	1900	QPSK	1/0			
PCC	15	1882.9	16QAM	1/74	22.99	2.40	25.39
SCC	20	1900	16QAM	1/0			
PCC	15	1887.5	QPSK	1/74	23.76	2.40	26.16
SCC	15	1902.5	QPSK	1/0			
PCC	15	1887.5	16QAM	1/74	23.02	2.40	25.42
SCC	15	1902.5	16QAM	1/0			
PCC	15	1893	QPSK	1/74	23.79	2.40	26.19
SCC	10	1905	QPSK	1/0			
PCC	15	1893	16QAM	1/74	22.85	2.40	25.25
SCC	10	1905	16QAM	1/0			
PCC	10	1885.6	QPSK	1/49	23.64	2.40	26.04
SCC	20	1900	QPSK	1/0			
PCC	10	1885.6	16QAM	1/49	23.07	2.40	25.47
SCC	20	1900	16QAM	1/0			
PCC	10	1890.5	QPSK	1/49	23.75	2.40	26.15
SCC	15	1902.5	QPSK	1/0			
PCC	10	1890.5	16QAM	1/49	23.17	2.40	25.57
SCC	15	1902.5	16QAM	1/0			
PCC	5	1888.3	QPSK	1/24	23.63	2.40	26.03
SCC	20	1900	QPSK	1/0			
PCC	5	1888.3	16QAM	1/24	23.03	2.40	25.43
SCC	20	1900	16QAM	1/0			

7.1.13. LTE Band 41

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
20M	2506	QPSK	1/0	23.77	1.12	24.89
		16QAM	1/0	22.90	1.12	24.02
		64QAM	1/0	21.91	1.12	23.03
		256QAM	1/0	18.88	1.12	20.00
	2593	QPSK	1/0	23.80	1.12	24.92
		16QAM	1/0	22.90	1.12	24.02
		64QAM	1/0	21.93	1.12	23.05
		256QAM	1/0	18.97	1.12	20.09
	2680	QPSK	1/0	23.77	1.12	24.89
		16QAM	1/0	22.93	1.12	24.05
		64QAM	1/0	21.96	1.12	23.08
		256QAM	1/0	18.91	1.12	20.03
15M	2503.5	QPSK	1/0	23.77	1.12	24.89
		16QAM	1/0	22.84	1.12	23.96
		64QAM	1/0	21.91	1.12	23.03
		256QAM	1/0	18.94	1.12	20.06
	2593	QPSK	1/0	23.78	1.12	24.90
		16QAM	1/0	22.94	1.12	24.06
		64QAM	1/0	21.95	1.12	23.07
		256QAM	1/0	18.92	1.12	20.04
	2682.5	QPSK	1/0	23.74	1.12	24.86
		16QAM	1/0	22.94	1.12	24.06
		64QAM	1/0	21.89	1.12	23.01
		256QAM	1/0	18.92	1.12	20.04
10M	2501	QPSK	1/0	23.77	1.12	24.89
		16QAM	1/0	22.90	1.12	24.02
		64QAM	1/0	21.95	1.12	23.07
		256QAM	1/0	18.89	1.12	20.01
	2593	QPSK	1/0	23.79	1.12	24.91
		16QAM	1/0	22.93	1.12	24.05
		64QAM	1/0	21.95	1.12	23.07
		256QAM	1/0	18.97	1.12	20.09
	2685	QPSK	1/0	23.76	1.12	24.88
		16QAM	1/0	22.92	1.12	24.04
		64QAM	1/0	21.95	1.12	23.07
		256QAM	1/0	18.91	1.12	20.03

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
5M	2498.5	QPSK	1/0	23.78	1.12	24.90
		16QAM	1/0	22.97	1.12	24.09
		64QAM	1/0	21.97	1.12	23.09
		256QAM	1/0	18.97	1.12	20.09
	2593	QPSK	1/0	23.79	1.12	24.91
		16QAM	1/0	22.92	1.12	24.04
		64QAM	1/0	21.98	1.12	23.10
		256QAM	1/0	18.96	1.12	20.08
	2687.5	QPSK	1/0	23.77	1.12	24.89
		16QAM	1/0	22.88	1.12	24.00
		64QAM	1/0	21.95	1.12	23.07
		256QAM	1/0	18.88	1.12	20.00

LTE ULCA(41C)

PCC/ SCC	Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
PCC	20	2583.1	QPSK	1/0	22.54	1.12	23.66
SCC	20	2602.9	QPSK	0/0			
PCC	20	2583.1	16QAM	1/0	22.09	1.12	23.21
SCC	20	2602.9	16QAM	0/0			
PCC	20	2585.7	QPSK	1/0	22.49	1.12	23.61
SCC	15	2602.8	QPSK	0/0			
PCC	20	2585.7	16QAM	1/0	21.85	1.12	22.97
SCC	15	2602.8	16QAM	0/0			
PCC	20	2588.3	QPSK	1/0	22.63	1.12	23.75
SCC	10	2602.7	QPSK	0/0			
PCC	20	2588.3	16QAM	1/0	21.96	1.12	23.08
SCC	10	2602.7	16QAM	0/0			
PCC	20	2590.9	QPSK	1/0	22.45	1.12	23.57
SCC	5	2602.6	QPSK	0/0			
PCC	20	2590.9	16QAM	1/0	22.05	1.12	23.17
SCC	5	2602.6	16QAM	0/0			
PCC	15	2583.2	QPSK	1/0	22.57	1.12	23.69
SCC	20	2600.3	QPSK	0/0			
PCC	15	2583.2	16QAM	1/0	22.16	1.12	23.28
SCC	20	2600.3	16QAM	0/0			
PCC	15	2585.5	QPSK	1/0	22.65	1.12	23.77
SCC	15	2600.5	QPSK	0/0			
PCC	15	2585.5	16QAM	1/0	21.88	1.12	23.00
SCC	15	2600.5	16QAM	0/0			
PCC	15	2588.3	QPSK	1/0	22.65	1.12	23.77
SCC	10	2600.3	QPSK	0/0			
PCC	15	2588.3	16QAM	1/0	22.22	1.12	23.34
SCC	10	2600.3	16QAM	0/0			
PCC	10	2583.3	QPSK	1/0	22.78	1.12	23.90
SCC	20	2597.7	QPSK	0/0			
PCC	10	2583.3	16QAM	1/0	22.18	1.12	23.30
SCC	20	2597.7	16QAM	0/0			
PCC	10	2585.8	QPSK	1/0	22.56	1.12	23.68
SCC	15	2597.8	QPSK	0/0			
PCC	10	2670.5	16QAM	1/0	21.68	1.12	22.80
SCC	15	2682.5	16QAM	0/0			
PCC	5	2583.4	QPSK	1/0	22.57	1.12	23.69
SCC	20	2595.1	QPSK	0/0			
PCC	5	2583.4	16QAM	1/0	21.59	1.12	22.71
SCC	20	2595.1	16QAM	0/0			

7.1.14. LTE Band 7

Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power (dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
20M	2510	QPSK	1/0	22.31	1.12	23.43
		16QAM	1/0	21.21	1.12	22.33
		64QAM	1/0	20.20	1.12	21.32
		256QAM	1/0	17.25	1.12	18.37
	2535	QPSK	1/0	22.34	1.12	23.46
		16QAM	1/0	21.25	1.12	22.37
		64QAM	1/0	20.33	1.12	21.45
		256QAM	1/0	17.27	1.12	18.39
	2560	QPSK	1/0	22.33	1.12	23.45
		16QAM	1/0	21.19	1.12	22.31
		64QAM	1/0	20.28	1.12	21.40
		256QAM	1/0	17.17	1.12	18.29
15M	2507.5	QPSK	1/0	22.24	1.12	23.36
		16QAM	1/0	21.18	1.12	22.30
		64QAM	1/0	20.26	1.12	21.38
		256QAM	1/0	17.23	1.12	18.35
	2535	QPSK	1/0	22.29	1.12	23.41
		16QAM	1/0	21.13	1.12	22.25
		64QAM	1/0	20.24	1.12	21.36
		256QAM	1/0	17.17	1.12	18.29
	2562.5	QPSK	1/0	22.23	1.12	23.35
		16QAM	1/0	21.20	1.12	22.32
		64QAM	1/0	20.19	1.12	21.31
		256QAM	1/0	17.21	1.12	18.33
10M	2505	QPSK	1/0	22.22	1.12	23.34
		16QAM	1/0	21.21	1.12	22.33
		64QAM	1/0	20.32	1.12	21.44
		256QAM	1/0	17.20	1.12	18.32
	2535	QPSK	1/0	22.31	1.12	23.43
		16QAM	1/0	21.17	1.12	22.29
		64QAM	1/0	20.29	1.12	21.41
		256QAM	1/0	17.20	1.12	18.32
	2565	QPSK	1/0	22.31	1.12	23.43
		16QAM	1/0	21.23	1.12	22.35
		64QAM	1/0	20.24	1.12	21.36
		256QAM	1/0	17.17	1.12	18.29
5M	2502.5	QPSK	1/0	22.29	1.12	23.41
		16QAM	1/0	21.16	1.12	22.28
		64QAM	1/0	20.18	1.12	21.30
		256QAM	1/0	17.19	1.12	18.31
	2535	QPSK	1/0	22.20	1.12	23.32
		16QAM	1/0	21.11	1.12	22.23
		64QAM	1/0	20.26	1.12	21.38
		256QAM	1/0	17.20	1.12	18.32
	2567.5	QPSK	1/0	22.29	1.12	23.41
		16QAM	1/0	21.20	1.12	22.32
		64QAM	1/0	20.32	1.12	21.44
		256QAM	1/0	17.18	1.12	18.30

LTE ULCA(7C)

PCC/ SCC	Channel Bandwidth (MHz)	Tx Freq. (MHz)	Test Mode	RB Size/ Offset	Conducted Output Power(dBm)	EUT Antenna Gain(dBi)	EIRP (dBm)
PCC	20	2525.1	QPSK	1/0	22.03	1.12	23.15
SCC	20	2544.9	QPSK	0/0			
PCC	20	2525.1	16QAM	1/0	21.68	1.12	22.80
SCC	20	2544.9	16QAM	0/0			
PCC	20	2527.7	QPSK	1/0	22.24	1.12	23.36
SCC	15	2544.8	QPSK	0/0			
PCC	20	2527.7	16QAM	1/0	21.64	1.12	22.76
SCC	15	2544.8	16QAM	0/0			
PCC	20	2530.3	QPSK	1/0	22.23	1.12	23.35
SCC	10	2544.7	QPSK	0/0			
PCC	20	2530.3	16QAM	1/0	21.63	1.12	22.75
SCC	10	2544.7	16QAM	0/0			
PCC	15	2525.2	QPSK	1/0	22.16	1.12	23.28
SCC	20	2542.3	QPSK	0/0			
PCC	15	2542.9	16QAM	1/0	21.80	1.12	22.92
SCC	20	2560	16QAM	0/0			
PCC	15	2527.5	QPSK	1/0	22.02	1.12	23.14
SCC	15	2542.5	QPSK	0/0			
PCC	15	2547.5	16QAM	1/0	21.76	1.12	22.88
SCC	15	2562.5	16QAM	0/0			
PCC	15	2553	QPSK	1/0	22.31	1.12	23.43
SCC	10	2565	QPSK	0/0			
PCC	15	2530.3	16QAM	1/0	21.59	1.12	22.71
SCC	10	2542.3	16QAM	0/0			
PCC	10	2525.3	QPSK	1/0	22.22	1.12	23.34
SCC	20	2539.7	QPSK	0/0			
PCC	10	2545.6	16QAM	1/0	21.73	1.12	22.85
SCC	20	2560	16QAM	0/0			

7.2. UNDESIRABLE EMISSIONS (Radiated)

- Test Notes

- 1) The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions.
- 2) For Band below 1GHz:
Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBd)
For Band above 1GHz:
Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBi)
- 3) Limit for Band 2/4/5/12/13/14/17/25/26/66/71 = -13dBm
Limit for Band 7/41 = -25dBm
Limit for 1559 MHz ~ 1610 MHz in Band 13/14 = -40dBm/MHz (equivalent isotropically radiated power for wideband signals)

7.2.1. LTE Band 71

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	673	1/0	QPSK	1 328.06	H	-62.95	2.16	-60.79	-13.00	47.79
				1 992.18	H	-64.64	3.00	-61.64	-13.00	48.64
				2 656.28	H	-66.13	4.11	-62.02	-13.00	49.02
				3 320.42	H	-67.10	5.80	-61.30	-13.00	48.30
	680.5	1/0	QPSK	1 343.09	H	-61.32	2.45	-58.87	-13.00	45.87
				2 014.83	H	-67.23	3.10	-64.13	-13.00	51.13
				2 686.63	H	-66.89	4.28	-62.61	-13.00	49.61
				3 357.95	H	-67.71	5.91	-61.80	-13.00	48.80
	688	1/0	QPSK	1 358.14	H	-65.96	2.65	-63.31	-13.00	50.31
				2 037.27	H	-67.72	3.16	-64.56	-13.00	51.56
				2 716.33	H	-66.55	4.40	-62.15	-13.00	49.15
				3 394.91	H	-67.42	6.08	-61.34	-13.00	48.34

7.2.2. LTE Band 12

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	704	1/0	QPSK	1 399.22	H	-64.69	2.95	-61.74	-13.00	48.74
				2 098.63	H	-67.86	3.37	-64.49	-13.00	51.49
				2 798.13	H	-67.52	4.74	-62.78	-13.00	49.78
				3 497.81	H	-67.76	6.34	-61.42	-13.00	48.42
	711	1/0	QPSK	1 413.24	H	-64.49	3.09	-61.40	-13.00	48.40
				2 120.15	H	-67.97	3.31	-64.66	-13.00	51.66
				2 826.27	H	-67.78	4.87	-62.91	-13.00	49.91
				3 533.11	H	-67.70	6.35	-61.35	-13.00	48.35

LTE ULCA(12B)

Intra Band

PCC/SCC	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
PCC	5	701.5	QPSK	1/24	1407.50	H	-66.48	3.04	-63.44	-13.00	50.44
					2110.80	H	-67.98	3.34	-64.64	-13.00	51.64
SCC	10	708.7	QPSK	1/0	2814.49	H	-67.29	4.81	-62.48	-13.00	49.48
					3518.33	H	-67.63	6.34	-61.29	-13.00	48.29
PCC	5	702.7	QPSK	1/24	1409.89	H	-66.87	3.06	-63.81	-13.00	50.81
					2114.82	H	-67.71	3.33	-64.38	-13.00	51.38
SCC	10	709.9	QPSK	1/0	2820.09	H	-67.49	4.84	-62.65	-13.00	49.65
					3525.07	H	-67.67	6.35	-61.32	-13.00	48.32
PCC	5	703.8	QPSK	1/24	1412.02	H	-65.51	3.08	-62.43	-13.00	49.43
					2118.24	H	-68.04	3.32	-64.72	-13.00	51.72
SCC	10	711	QPSK	1/0	2824.24	H	-67.39	4.86	-62.53	-13.00	49.53
					3529.83	H	-67.38	6.35	-61.03	-13.00	48.03

7.2.3. LTE Band 17

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	709	1/0	QPSK	1 409.30	H	-68.62	3.05	-65.57	-13.00	52.57
				2 114.19	H	-68.02	3.33	-64.69	-13.00	51.69
				2 818.43	H	-67.33	4.83	-62.50	-13.00	49.50
				3 522.36	H	-67.58	6.34	-61.24	-13.00	48.24
	710	1/0	QPSK	1 411.31	H	-66.80	3.07	-63.73	-13.00	50.73
				2 116.60	H	-67.71	3.32	-64.39	-13.00	51.39
				2 822.29	H	-67.51	4.85	-62.66	-13.00	49.66
				3 527.62	H	-67.77	6.35	-61.42	-13.00	48.42
	711	1/0	QPSK	1 413.20	H	-67.60	3.09	-64.51	-13.00	51.51
				2 119.64	H	-68.07	3.31	-64.76	-13.00	51.76
				2 826.26	H	-67.70	4.87	-62.83	-13.00	49.83
				3 533.73	H	-67.74	6.35	-61.39	-13.00	48.39

7.2.4. LTE Band 13

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	1/0	QPSK	1 555.13	H	-63.35	3.85	-59.50	-13.00	46.50
				2 332.75	H	-66.86	3.92	-62.94	-13.00	49.94
				3 110.20	H	-67.67	5.25	-62.42	-13.00	49.42
				3 887.84	H	-68.56	7.02	-61.54	-13.00	48.54
5	779.5	1/0	QPSK	1 554.68	V	-50.77	3.85	-46.92	-13.00	33.92
				2 331.95	V	-55.20	3.92	-51.28	-13.00	38.28
				3 109.52	V	-66.45	5.25	-61.20	-13.00	48.20
				3 886.87	V	-68.48	7.01	-61.47	-13.00	48.47
	782	1/0	QPSK	2 339.36	V	-50.21	3.94	-46.27	-13.00	33.27
				3 119.58	V	-66.25	5.25	-61.00	-13.00	48.00
				3 898.86	V	-68.43	7.12	-61.31	-13.00	48.31
				2 339.36	V	-50.21	3.94	-46.27	-13.00	33.27
	784.5	1/0	QPSK	2 347.14	V	-48.18	3.95	-44.23	-13.00	31.23
				3 129.17	V	-66.66	5.25	-61.41	-13.00	48.41
				3 912.10	V	-68.57	7.12	-61.45	-13.00	48.45

UNDESIRABLE EMISSIONS IN 1559 MHz ~ 1610 MHz (LTE Band 13)

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	1/25	QPSK	1 564.05	H	-62.65	6.04	-56.61	-40.00	16.61
5	784.5	1/0	QPSK	1 564.71	H	-62.68	6.04	-56.64	-40.00	16.64

7.2.5. LTE Band 14

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	793	1/0	QPSK	2 365.53	H	-67.04	3.96	-63.08	-13.00	50.08
				3 154.34	H	-67.89	5.26	-62.63	-13.00	49.63
				3 942.76	H	-69.01	7.10	-61.91	-13.00	48.91
				4 730.49	H	-68.57	7.72	-60.85	-13.00	47.85
5	790.5	1/0	QPSK	2 365.13	V	-46.05	3.96	-42.09	-13.00	29.09
				3 154.69	V	-66.45	5.26	-61.19	-13.00	48.19
				3 941.33	V	-69.04	7.11	-61.93	-13.00	48.93
	793	1/0	QPSK	2 372.56	V	-46.22	3.96	-42.26	-13.00	29.26
				3 163.87	V	-66.29	5.27	-61.02	-13.00	48.02
				3 954.14	V	-68.84	7.10	-61.74	-13.00	48.74
	795.5	1/0	QPSK	2 380.05	V	-47.69	3.96	-43.73	-13.00	30.73
				3 172.82	V	-66.48	5.29	-61.19	-13.00	48.19
				3 966.45	V	-68.64	7.12	-61.52	-13.00	48.52

UNDESIRABLE EMISSIONS IN 1559 MHz ~ 1610 MHz (LTE Band 14)

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	793	1/0	QPSK	1 577.26	H	-65.54	6.09	-59.45	-40.00	19.45
5	793	1/0	QPSK	1 581.56	H	-64.22	6.11	-58.11	-40.00	18.11

7.2.6. LTE Band 26 (814 ~ 824 MHz)

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	819	1/0	QPSK	1 656.12	H	-69.06	4.06	-65.00	-13.00	52.00
				2 497.89	H	-66.52	3.84	-62.68	-13.00	49.68
				3 339.08	H	-67.39	5.85	-61.54	-13.00	48.54
				4 180.91	H	-68.81	7.26	-61.55	-13.00	48.55
5	816.5	1/0	QPSK	1 628.63	H	-55.96	4.05	-51.91	-13.00	38.91
				2 442.88	V	-55.06	3.99	-51.07	-13.00	38.07
				3 257.96	V	-66.88	5.55	-61.33	-13.00	48.33
				4 072.00	V	-69.11	7.19	-61.92	-13.00	48.92
	819	1/0	QPSK	1 633.66	H	-58.59	4.05	-54.54	-13.00	41.54
				2 450.52	V	-54.72	4.00	-50.72	-13.00	37.72
				3 267.14	V	-66.67	5.59	-61.08	-13.00	48.08
				4 085.16	V	-69.13	7.21	-61.92	-13.00	48.92
	821.5	1/0	QPSK	1 638.63	H	-54.78	4.05	-50.73	-13.00	37.73
				2 458.07	V	-56.48	3.97	-52.51	-13.00	39.51
				3 277.84	V	-66.63	5.64	-60.99	-13.00	47.99
				4 097.63	V	-69.21	7.24	-61.97	-13.00	48.97

7.2.7. LTE Band 26 (824 ~ 849 MHz)

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	831.5	1/0	QPSK	1 649.66	H	-62.21	4.06	-58.15	-13.00	45.15
				2 474.57	H	-65.55	3.92	-61.63	-13.00	48.63
				3 298.64	H	-67.18	5.74	-61.44	-13.00	48.44
				4 123.75	H	-68.51	7.23	-61.28	-13.00	48.28
	836.5	1/0	QPSK	1 659.68	H	-58.76	4.07	-54.69	-13.00	41.69
				2 489.57	H	-64.81	3.87	-60.94	-13.00	47.94
				3 319.01	H	-67.25	5.80	-61.45	-13.00	48.45
				4 148.68	H	-68.68	7.22	-61.46	-13.00	48.46
	841.5	1/0	QPSK	1 669.63	H	-57.87	4.08	-53.79	-13.00	40.79
				2 504.57	H	-64.03	3.83	-60.20	-13.00	47.20
				3 339.37	H	-67.24	5.85	-61.39	-13.00	48.39
				4 174.07	H	-68.66	7.25	-61.41	-13.00	48.41

7.2.8. LTE Band 5

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	829	1/0	QPSK	1 649.21	H	-64.92	4.06	-60.86	-13.00	47.86
				2 473.94	H	-66.26	3.92	-62.34	-13.00	49.34
				3 298.32	H	-67.21	5.74	-61.47	-13.00	48.47
				4 122.90	H	-69.06	7.23	-61.83	-13.00	48.83
	836.5	1/0	QPSK	1 664.10	H	-59.33	4.07	-55.26	-13.00	42.26
				2 496.15	H	-63.97	3.84	-60.13	-13.00	47.13
				3 328.39	H	-67.56	5.82	-61.74	-13.00	48.74
				4 160.18	H	-68.60	7.23	-61.37	-13.00	48.37
	844	1/0	QPSK	1 679.18	H	-61.82	4.08	-57.74	-13.00	44.74
				2 518.96	H	-66.81	3.83	-62.98	-13.00	49.98
				3 358.41	H	-67.49	5.92	-61.57	-13.00	48.57
				4 198.49	H	-68.85	7.28	-61.57	-13.00	48.57

LTE ULCA(5B)

Intra Band

PCC/ SCC	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
PCC	10	829	QPSK	1/49	1666.84	H	-64.36	4.07	-60.29	-13.00	47.29
SCC	10	838.9	QPSK	1/0	2501.24	H	-65.72	3.83	-61.89	-13.00	48.89
					3334.43	H	-67.39	5.84	-61.55	-13.00	48.55
SCC	10	841.5	QPSK	1/0	4167.17	H	-68.78	7.24	-61.54	-13.00	48.54
					1672.05	H	-64.28	4.08	-60.20	-13.00	47.20
PCC	10	831.6	QPSK	1/49	2509.07	H	-65.74	3.83	-61.91	-13.00	48.91
SCC	10	844	QPSK	1/0	3343.91	H	-67.53	5.86	-61.67	-13.00	48.67
					4179.93	H	-69.14	7.26	-61.88	-13.00	48.88
PCC	10	834.1	QPSK	1/49	1676.87	H	-64.66	4.08	-60.58	-13.00	47.58
SCC	10	844	QPSK	1/0	2515.76	H	-66.69	3.83	-62.86	-13.00	49.86
					3353.93	H	-67.78	5.90	-61.88	-13.00	48.88
					4192.54	H	-69.19	7.27	-61.92	-13.00	48.92

7.2.9. LTE Band 4

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1720	1/0	QPSK	3 422.14	H	-59.36	8.36	-51.00	-13.00	38.00
				5 133.70	H	-69.28	10.18	-59.10	-13.00	46.10
				6 844.33	H	-67.56	11.53	-56.03	-13.00	43.03
				8 555.45	H	-68.52	12.94	-55.58	-13.00	42.58
	1732.5	1/0	QPSK	3 447.06	H	-59.71	8.48	-51.23	-13.00	38.23
				5 170.64	H	-66.08	10.19	-55.89	-13.00	42.89
				6 894.58	H	-67.73	11.54	-56.19	-13.00	43.19
				8 618.46	H	-68.97	12.94	-56.03	-13.00	43.03
	1745	1/0	QPSK	3 472.16	H	-51.26	8.49	-42.77	-13.00	29.77
				5 208.24	H	-53.93	10.17	-43.76	-13.00	30.76
				6 943.92	H	-66.98	11.58	-55.40	-13.00	42.40
				8 680.59	H	-68.65	12.94	-55.71	-13.00	42.71

7.2.10. LTE Band 66

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1720	1/0	QPSK	3 422.31	H	-55.55	8.36	-47.19	-13.00	34.19
				5 133.33	H	-67.28	10.18	-57.10	-13.00	44.10
				6 843.94	H	-67.30	11.53	-55.77	-13.00	42.77
				8 555.33	H	-70.22	12.94	-57.28	-13.00	44.28
	1745	1/0	QPSK	3 472.33	H	-60.54	8.49	-52.05	-13.00	39.05
				5 208.27	H	-66.61	10.17	-56.44	-13.00	43.44
				6 944.80	H	-67.32	11.58	-55.74	-13.00	42.74
				8 680.89	H	-70.05	12.94	-57.11	-13.00	44.11
	1770	1/0	QPSK	3 522.38	H	-62.37	8.49	-53.88	-13.00	40.88
				5 283.32	H	-68.40	10.20	-58.20	-13.00	45.20
				7 044.68	H	-67.48	11.55	-55.93	-13.00	42.93
				8 806.04	H	-69.41	13.00	-56.41	-13.00	43.41

LTE ULCA(66B)

Intra Band

PCC/ SCC	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
PCC	5	1712.5	QPSK	1/24	3429.57	H	-63.19	8.39	-54.80	-13.00	41.80
					5144.30	H	-68.23	10.19	-58.04	-13.00	45.04
SCC	15	1721.8	QPSK	1/0	6859.71	H	-67.19	11.55	-55.64	-13.00	42.64
					8575.21	H	-68.13	12.94	-55.19	-13.00	42.19
PCC	5	1737.9	QPSK	1/24	3480.41	H	-58.32	8.49	-49.83	-13.00	36.83
					5220.35	H	-66.07	10.17	-55.90	-13.00	42.90
SCC	15	1747.2	QPSK	1/0	6960.06	H	-67.51	11.59	-55.92	-13.00	42.92
					8700.32	H	-67.88	12.94	-54.94	-13.00	41.94
PCC	5	1763.2	QPSK	1/24	3530.84	H	-65.27	8.50	-56.77	-13.00	43.77
					5296.58	H	-68.78	10.21	-58.57	-13.00	45.57
SCC	15	1772.5	QPSK	1/0	7061.55	H	-67.60	11.57	-56.03	-13.00	43.03
					8827.40	H	-67.83	13.01	-54.82	-13.00	41.82

LTE ULCA(66C)

Intra Band

PCC/ SCC	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
PCC	20	1720	QPSK	1/99	3457.79	H	-61.88	8.49	-53.39	-13.00	40.39
					5188.55	H	-68.52	10.18	-58.34	-13.00	45.34
SCC	20	1739.8	QPSK	1/0	6917.37	H	-67.02	11.56	-55.46	-13.00	42.46
					8646.94	H	-67.90	12.93	-54.97	-13.00	41.97
PCC	20	1735.1	QPSK	1/99	3488.01	H	-60.41	8.49	-51.92	-13.00	38.92
					5232.76	H	-69.00	10.18	-58.82	-13.00	45.82
SCC	20	1754.9	QPSK	1/0	6978.81	H	-67.33	11.58	-55.75	-13.00	42.75
					8721.84	H	-67.59	12.95	-54.64	-13.00	41.64
PCC	20	1750.2	QPSK	1/99	3518.26	H	-65.12	8.49	-56.63	-13.00	43.63
					5279.52	H	-68.99	10.20	-58.79	-13.00	45.79
SCC	20	1770	QPSK	1/0	7037.47	H	-67.23	11.56	-55.67	-13.00	42.67
					8798.95	H	-67.86	13.00	-54.86	-13.00	41.86

7.2.11. LTE Band 2

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1860	1/0	QPSK	3 702.20	V	-46.68	8.25	-38.43	-13.00	25.43
				5 553.14	H	-59.69	10.56	-49.13	-13.00	36.13
				7 404.51	H	-68.13	12.15	-55.98	-13.00	42.98
				9 255.22	H	-68.02	13.15	-54.87	-13.00	41.87
	1880	1/0	QPSK	3 742.12	V	-48.02	8.34	-39.68	-13.00	26.68
				5 613.16	H	-61.56	10.64	-50.92	-13.00	37.92
				7 484.26	H	-67.47	12.17	-55.30	-13.00	42.30
				9 355.14	H	-67.07	13.10	-53.97	-13.00	40.97
	1900	1/0	QPSK	3 782.22	V	-52.36	8.42	-43.94	-13.00	30.94
				5 673.20	H	-60.40	10.73	-49.67	-13.00	36.67
				7 564.39	H	-68.16	12.16	-56.00	-13.00	43.00
				9 455.64	H	-67.25	13.06	-54.19	-13.00	41.19

LTE ULCA(2C)

Intra Band

PCC/ SCC	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
PCC	20	1860	QPSK	1/99	3737.87	V	-49.28	8.33	-40.95	-13.00	27.95
					5608.61	H	-57.21	10.64	-46.57	-13.00	33.57
SCC	20	1879.8	QPSK	1/0	7477.42	H	-65.60	12.16	-53.44	-13.00	40.44
					9345.55	H	-67.59	13.10	-54.49	-13.00	41.49
PCC	20	1870.1	QPSK	1/99	3757.92	V	-50.85	8.37	-42.48	-13.00	29.48
					5639.08	H	-58.50	10.66	-47.84	-13.00	34.84
SCC	20	1889.9	QPSK	1/0	7517.79	H	-66.34	12.18	-54.16	-13.00	41.16
					9395.64	H	-67.33	13.07	-54.26	-13.00	41.26
PCC	20	1880.2	QPSK	1/99	3778.15	V	-53.86	8.41	-45.45	-13.00	32.45
					5669.20	H	-59.27	10.72	-48.55	-13.00	35.55
SCC	20	1900	QPSK	1/0	7556.23	H	-67.67	12.17	-55.50	-13.00	42.50
					9447.23	H	-67.19	13.06	-54.13	-13.00	41.13

7.2.12. LTE Band 25

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1860	1/0	QPSK	3 702.13	V	-34.68	8.25	-26.43	-13.00	13.43
				5 553.46	H	-53.51	10.56	-42.95	-13.00	29.95
				7 404.22	H	-63.19	12.15	-51.04	-13.00	38.04
				9 255.97	H	-67.66	13.15	-54.51	-13.00	41.51
	1882.5	1/0	QPSK	3 747.14	V	-32.92	8.35	-24.57	-13.00	11.57
				5 620.85	H	-51.44	10.65	-40.79	-13.00	27.79
				7 494.39	H	-61.70	12.18	-49.52	-13.00	36.52
				9 368.15	H	-67.21	13.09	-54.12	-13.00	41.12
	1905	1/0	QPSK	3 792.18	V	-31.46	8.44	-23.02	-13.00	10.02
				5 688.29	H	-53.40	10.76	-42.64	-13.00	29.64
				7 584.42	H	-62.21	12.15	-50.06	-13.00	37.06
				9 480.28	H	-67.08	13.05	-54.03	-13.00	41.03

7.2.13. LTE Band 41

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2506	1/0	QPSK	4 994.19	H	-61.81	9.90	-51.91	-25.00	26.91
				7 491.20	H	-63.60	12.17	-51.43	-25.00	26.43
				9 988.48	H	-61.60	12.85	-48.75	-25.00	23.75
				12 485.65	H	-59.86	13.50	-46.36	-25.00	21.36
	2593	1/0	QPSK	5 168.21	H	-58.74	10.19	-48.55	-25.00	23.55
				7 752.66	H	-63.66	12.26	-51.40	-25.00	26.40
				10 336.31	H	-59.89	13.05	-46.84	-25.00	21.84
				12 919.31	H	-59.05	13.58	-45.47	-25.00	20.47
	2680	1/0	QPSK	5 342.24	H	-62.04	10.22	-51.82	-25.00	26.82
				8 012.91	H	-64.15	12.60	-51.55	-25.00	26.55
				10 684.53	H	-59.15	13.19	-45.96	-25.00	20.96
				13 355.18	H	-58.51	14.06	-44.45	-25.00	19.45

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Intra Band

PCC/ SCC	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
PCC	20	2506	QPSK	1/99	5029.45	H	-61.83	9.98	-51.85	-25.00	26.85
					7545.80	H	-67.75	12.17	-55.58	-25.00	30.58
SCC	20	2525.8	QPSK	1/0	10060.54	H	-65.59	12.87	-52.72	-25.00	27.72
					12575.59	H	-64.21	13.53	-50.68	-25.00	25.68
PCC	20	2583.1	QPSK	1/99	5184.28	H	-61.64	10.18	-51.46	-25.00	26.46
					7776.56	H	-67.87	12.31	-55.56	-25.00	30.56
SCC	20	2602.9	QPSK	1/0	10367.35	H	-64.24	13.09	-51.15	-25.00	26.15
					12960.51	H	-62.85	13.68	-49.17	-25.00	24.17
PCC	20	2660.2	QPSK	1/99	5338.03	H	-61.83	10.22	-51.61	-25.00	26.61
					8007.59	H	-68.37	12.59	-55.78	-25.00	30.78
SCC	20	2680	QPSK	1/0	10676.28	H	-63.88	13.18	-50.70	-25.00	25.70
					13345.20	H	-62.64	14.05	-48.59	-25.00	23.59

7.2.14. LTE Band 7

Channel Bandwidth (MHz)	Test Freq. (MHz)	RB Size/ Offset	Test Mode	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	2510	1/0	QPSK	5 002.12	H	-64.82	9.92	-54.90	-25.00	29.90
				7 503.26	H	-67.79	12.18	-55.61	-25.00	30.61
				10 004.09	H	-65.44	12.86	-52.58	-25.00	27.58
				12 505.68	H	-63.88	13.53	-50.35	-25.00	25.35
	2535	1/0	QPSK	5 052.14	H	-64.90	10.03	-54.87	-25.00	29.87
				7 578.43	H	-67.83	12.15	-55.68	-25.00	30.68
				10 104.20	H	-64.97	12.94	-52.03	-25.00	27.03
				12 630.93	H	-63.90	13.49	-50.41	-25.00	25.41
	2560	1/0	QPSK	5 102.28	H	-61.25	10.14	-51.11	-25.00	26.11
				7 653.25	H	-67.29	12.19	-55.10	-25.00	30.10
				10 204.33	H	-64.54	13.04	-51.50	-25.00	26.50
				12 755.86	H	-63.18	13.51	-49.67	-25.00	24.67

LTE ULCA(7C)

Intra Band

PCC/ SCC	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/ offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
PCC	20	2510	QPSK	1/99	5037.07	H	-69.12	10.00	-59.12	-25.00	34.12
					7558.25	H	-67.35	12.17	-55.18	-25.00	30.18
SCC	20	2529.8	QPSK	1/0	10076.44	H	-65.70	12.90	-52.80	-25.00	27.80
					12595.61	H	-64.10	13.51	-50.59	-25.00	25.59
PCC	20	2525.1	QPSK	1/99	5067.79	H	-68.86	10.07	-58.79	-25.00	33.79
					7601.79	H	-67.62	12.14	-55.48	-25.00	30.48
SCC	20	2544.9	QPSK	1/0	10135.54	H	-65.42	12.92	-52.50	-25.00	27.50
					12670.78	H	-63.78	13.49	-50.29	-25.00	25.29
PCC	20	2540.2	QPSK	1/99	5098.47	H	-68.82	10.14	-58.68	-25.00	33.68
					7646.98	H	-67.05	12.19	-54.86	-25.00	29.86
SCC	20	2560	QPSK	1/0	10195.33	H	-65.31	13.03	-52.28	-25.00	27.28
					12745.83	H	-63.59	13.51	-50.08	-25.00	25.08

- End of test report -