

7.6.1 Antenna 4 – ERP/EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	0.60	1 / 3	24.54	25.14	0.327	30.00	-4.86
		1745.0	0.60	1 / 3	24.65	25.25	0.335	30.00	-4.75
		1779.3	0.60	1 / 3	24.95	25.55	0.359	30.00	-4.45
	16-QAM	1779.3	0.60	1 / 3	23.93	24.53	0.284	30.00	-5.47
	64-QAM	1779.3	0.60	1 / 3	23.36	23.96	0.249	30.00	-6.04
	256-QAM	1745.0	0.60	1 / 3	20.23	20.83	0.121	30.00	-9.17
3 MHz	QPSK	1711.5	0.60	1 / 0	24.63	25.23	0.333	30.00	-4.77
		1745.0	0.60	1 / 0	25.01	25.61	0.364	30.00	-4.39
		1778.5	0.60	1 / 0	24.75	25.35	0.343	30.00	-4.65
	16-QAM	1778.5	0.60	1 / 0	24.10	24.70	0.295	30.00	-5.30
	64-QAM	1778.5	0.60	1 / 7	23.48	24.08	0.256	30.00	-5.92
	256-QAM	1778.5	0.60	1 / 0	20.44	21.04	0.127	30.00	-8.96
5 MHz	QPSK	1712.5	0.60	1 / 12	24.70	25.30	0.339	30.00	-4.70
		1745.0	0.60	1 / 12	24.97	25.57	0.361	30.00	-4.43
		1777.5	0.60	1 / 12	24.71	25.31	0.340	30.00	-4.69
	16-QAM	1745.0	0.60	1 / 12	24.11	24.71	0.296	30.00	-5.29
	64-QAM	1712.5	0.60	1 / 12	23.13	23.73	0.236	30.00	-6.27
	256-QAM	1777.5	0.60	1 / 12	20.21	20.81	0.121	30.00	-9.19
10 MHz	QPSK	1715.0	0.60	1 / 0	24.63	25.23	0.333	30.00	-4.77
		1745.0	0.60	1 / 0	24.68	25.28	0.337	30.00	-4.72
		1775.0	0.60	1 / 0	24.92	25.52	0.356	30.00	-4.48
	16-QAM	1775.0	0.60	1 / 0	24.14	24.74	0.298	30.00	-5.26
	64-QAM	1775.0	0.60	1 / 0	23.39	23.99	0.251	30.00	-6.01
	256-QAM	1775.0	0.60	1 / 0	20.44	21.04	0.127	30.00	-8.96
15 MHz	QPSK	1717.5	0.60	1 / 37	24.98	25.58	0.361	30.00	-4.42
		1745.0	0.60	1 / 37	24.75	25.35	0.343	30.00	-4.65
		1772.5	0.60	1 / 0	24.74	25.34	0.342	30.00	-4.66
	16-QAM	1772.5	0.60	1 / 37	24.09	24.69	0.294	30.00	-5.31
	64-QAM	1772.5	0.60	1 / 37	23.43	24.03	0.253	30.00	-5.97
	256-QAM	1772.5	0.60	1 / 37	20.39	20.99	0.126	30.00	-9.01
20 MHz	QPSK	1720.0	0.60	1 / 0	24.56	25.16	0.328	30.00	-4.84
		1745.0	0.60	1 / 50	25.05	25.65	0.367	30.00	-4.35
		1770.0	0.60	1 / 50	24.84	25.44	0.350	30.00	-4.56
	16-QAM	1745.0	0.60	1 / 0	24.12	24.72	0.296	30.00	-5.28
	64-QAM	1720.0	0.60	1 / 0	23.43	24.03	0.253	30.00	-5.97
	256-QAM	1745.0	0.60	1 / 50	20.25	20.85	0.122	30.00	-9.15

Table 7-2. Antenna 4 EIRP Data (LTE Band 66)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 234 of 305

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	0.60	1 / 3	25.08	25.68	0.370	30.00	-4.32
		1732.5	0.60	1 / 3	25.19	25.79	0.379	30.00	-4.21
		1754.3	0.60	1 / 3	25.32	25.92	0.391	30.00	-4.08
	16-QAM	1710.7	0.60	1 / 3	24.35	24.95	0.313	30.00	-5.05
	64-QAM	1754.3	0.60	1 / 3	23.74	24.34	0.272	30.00	-5.66
	256-QAM	1732.5	0.60	1 / 3	20.77	21.37	0.137	30.00	-8.63
3 MHz	QPSK	1711.5	0.60	1 / 14	25.15	25.75	0.376	30.00	-4.25
		1732.5	0.60	1 / 14	25.20	25.80	0.380	30.00	-4.20
		1753.5	0.60	1 / 14	25.13	25.73	0.374	30.00	-4.27
	16-QAM	1753.5	0.60	1 / 7	24.63	25.23	0.333	30.00	-4.77
	64-QAM	1753.5	0.60	1 / 7	23.84	24.44	0.278	30.00	-5.56
	256-QAM	1753.5	0.60	1 / 7	20.84	21.44	0.139	30.00	-8.56
5 MHz	QPSK	1712.5	0.60	1 / 24	25.28	25.88	0.387	30.00	-4.12
		1732.5	0.60	1 / 12	25.32	25.92	0.391	30.00	-4.08
		1752.5	0.60	1 / 24	25.11	25.71	0.372	30.00	-4.29
	16-QAM	1732.5	0.60	1 / 24	24.55	25.15	0.327	30.00	-4.85
	64-QAM	1712.5	0.60	1 / 12	23.63	24.23	0.265	30.00	-5.77
	256-QAM	1752.5	0.60	1 / 12	20.66	21.26	0.134	30.00	-8.74
10 MHz	QPSK	1715.0	0.60	1 / 49	25.17	25.77	0.378	30.00	-4.23
		1732.5	0.60	1 / 49	25.20	25.80	0.380	30.00	-4.20
		1750.0	0.60	1 / 0	25.08	25.68	0.370	30.00	-4.32
	16-QAM	1750.0	0.60	1 / 0	24.42	25.02	0.318	30.00	-4.98
	64-QAM	1750.0	0.60	1 / 49	23.81	24.41	0.276	30.00	-5.59
	256-QAM	1750.0	0.60	1 / 49	20.75	21.35	0.136	30.00	-8.65
15 MHz	QPSK	1717.5	0.60	1 / 0	25.27	25.87	0.386	30.00	-4.13
		1732.5	0.60	1 / 0	25.24	25.84	0.384	30.00	-4.16
		1747.5	0.60	1 / 0	25.11	25.71	0.372	30.00	-4.29
	16-QAM	1747.5	0.60	1 / 0	24.44	25.04	0.319	30.00	-4.96
	64-QAM	1747.5	0.60	1 / 0	23.86	24.46	0.279	30.00	-5.54
	256-QAM	1747.5	0.60	1 / 0	20.81	21.41	0.138	30.00	-8.59
20 MHz	QPSK	1720.0	0.60	1 / 0	25.26	25.86	0.385	30.00	-4.14
		1732.5	0.60	1 / 0	25.04	25.64	0.366	30.00	-4.36
		1745.0	0.60	1 / 0	25.33	25.93	0.392	30.00	-4.07
	16-QAM	1745.0	0.60	1 / 0	24.58	25.18	0.330	30.00	-4.82
	64-QAM	1732.5	0.60	1 / 0	24.04	24.64	0.291	30.00	-5.36
	256-QAM	1732.5	0.60	1 / 0	20.74	21.34	0.136	30.00	-8.66

Table 7-3. Antenna 4 EIRP Data (LTE Band 4)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device		Page 235 of 305

LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	665.5	-2.20	1 / 0	25.03	20.68	0.117	34.77	-14.09	22.83	0.192	36.99	-14.16
		680.5	-2.20	1 / 12	25.23	20.88	0.122	34.77	-13.89	23.03	0.201	36.99	-13.96
		695.5	-2.20	1 / 24	25.05	20.70	0.117	34.77	-14.07	22.85	0.193	36.99	-14.14
	16-QAM	665.5	-2.20	1 / 12	24.29	19.94	0.099	34.77	-14.83	22.09	0.162	36.99	-14.90
	64-QAM	680.5	-2.20	1 / 24	23.44	19.09	0.081	34.77	-15.68	21.24	0.133	36.99	-15.75
10 MHz	QPSK	665.5	-2.20	1 / 0	20.48	16.13	0.041	34.77	-18.64	18.28	0.067	36.99	-18.71
		668.0	-2.20	1 / 49	25.02	20.67	0.117	34.77	-14.10	22.82	0.191	36.99	-14.17
		680.5	-2.20	1 / 49	25.32	20.97	0.125	34.77	-13.80	23.12	0.205	36.99	-13.87
	16-QAM	693.0	-2.20	1 / 0	25.09	20.74	0.119	34.77	-14.03	22.89	0.195	36.99	-14.10
	64-QAM	693.0	-2.20	1 / 0	24.37	20.02	0.100	34.77	-14.75	22.17	0.165	36.99	-14.82
15 MHz	QPSK	693.0	-2.20	1 / 25	23.36	19.01	0.080	34.77	-15.76	21.16	0.131	36.99	-15.83
		680.5	-2.20	1 / 25	20.33	15.98	0.040	34.77	-18.79	18.13	0.065	36.99	-18.86
		670.5	-2.20	1 / 74	25.38	21.03	0.127	34.77	-13.74	23.18	0.208	36.99	-13.81
	16-QAM	680.5	-2.20	1 / 74	25.06	20.71	0.118	34.77	-14.06	22.86	0.193	36.99	-14.13
	64-QAM	690.5	-2.20	1 / 37	25.18	20.83	0.121	34.77	-13.94	22.98	0.199	36.99	-14.01
20 MHz	QPSK	670.5	-2.20	1 / 74	24.48	20.13	0.103	34.77	-14.64	22.28	0.169	36.99	-14.71
		670.5	-2.20	1 / 37	23.46	19.11	0.082	34.77	-15.66	21.26	0.134	36.99	-15.73
		680.5	-2.20	1 / 37	20.20	15.85	0.038	34.77	-18.92	18.00	0.063	36.99	-18.99
	16-QAM	673.0	-2.20	1 / 50	24.95	20.60	0.115	34.77	-14.17	22.75	0.188	36.99	-14.24
	64-QAM	680.5	-2.20	1 / 0	25.06	20.71	0.118	34.77	-14.06	22.86	0.193	36.99	-14.13

Table 7-4. Antenna 4 ERP/EIRP Data (LTE Band 71)

LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-1.90	1 / 0	25.08	21.03	0.127	34.77	-13.75	23.18	0.208	36.99	-13.81
		707.5	-1.90	1 / 3	25.05	21.00	0.126	34.77	-13.77	23.15	0.206	36.99	-13.84
		715.3	-1.90	1 / 3	25.32	21.27	0.134	34.77	-13.50	23.42	0.220	36.99	-13.57
	16-QAM	715.3	-1.90	1 / 3	24.48	20.43	0.110	34.77	-14.34	22.58	0.181	36.99	-14.41
	64-QAM	715.3	-1.90	1 / 5	23.49	19.44	0.088	34.77	-15.34	21.59	0.144	36.99	-15.40
3 MHz	QPSK	715.3	-1.90	1 / 3	20.34	16.29	0.043	34.77	-18.48	18.44	0.070	36.99	-18.55
		700.5	-1.90	1 / 0	25.11	21.06	0.128	34.77	-13.71	23.21	0.209	36.99	-13.78
		707.5	-1.90	1 / 7	25.24	21.19	0.132	34.77	-13.58	23.34	0.216	36.99	-13.65
	16-QAM	714.5	-1.90	1 / 0	24.98	20.93	0.124	34.77	-13.84	23.08	0.203	36.99	-13.91
	64-QAM	714.5	-1.90	1 / 0	24.64	20.59	0.115	34.77	-14.18	22.74	0.188	36.99	-14.25
5 MHz	QPSK	707.5	-1.90	1 / 7	23.57	19.52	0.090	34.77	-15.25	21.67	0.147	36.99	-15.32
		700.5	-1.90	1 / 7	20.42	16.37	0.043	34.77	-18.40	18.52	0.071	36.99	-18.47
		701.5	-1.90	1 / 0	25.05	21.00	0.126	34.77	-13.77	23.15	0.207	36.99	-13.84
	16-QAM	707.5	-1.90	1 / 0	25.30	21.25	0.133	34.77	-13.52	23.40	0.219	36.99	-13.59
	64-QAM	713.5	-1.90	1 / 24	24.95	20.90	0.123	34.77	-13.87	23.05	0.202	36.99	-13.94
10 MHz	QPSK	707.5	-1.90	1 / 24	24.51	20.46	0.111	34.77	-14.31	22.61	0.183	36.99	-14.38
		701.5	-1.90	1 / 0	23.62	19.57	0.091	34.77	-15.20	21.72	0.149	36.99	-15.27
		707.5	-1.90	1 / 0	20.39	16.34	0.043	34.77	-18.43	18.49	0.071	36.99	-18.50
	16-QAM	704.0	-1.90	1 / 0	25.09	21.04	0.127	34.77	-13.73	23.19	0.208	36.99	-13.80
	64-QAM	707.5	-1.90	1 / 25	24.97	20.92	0.124	34.77	-13.85	23.07	0.203	36.99	-13.92

Table 7-5. Antenna 4 ERP/EIRP Data (LTE Band 12)

FCC ID: BCGA2589	 PCTEST® Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 236 of 305

LTE Band 17

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	706.5	-1.90	1 / 0	25.00	20.95	0.125	34.77	-13.82	23.10	0.204	36.99	-13.89
		710.0	-1.90	1 / 12	25.34	21.29	0.135	34.77	-13.48	23.44	0.221	36.99	-13.55
		713.5	-1.90	1 / 0	25.11	21.06	0.128	34.77	-13.71	23.21	0.209	36.99	-13.78
	16-QAM	713.5	-1.90	1 / 24	24.50	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39
	64-QAM	706.5	-1.90	1 / 24	23.71	19.66	0.092	34.77	-15.11	21.81	0.152	36.99	-15.18
	256-QAM	713.5	-1.90	1 / 24	20.49	16.44	0.044	34.77	-18.33	18.59	0.072	36.99	-18.40
10 MHz	QPSK	709.0	-1.90	1 / 0	25.07	21.02	0.127	34.77	-13.75	23.17	0.208	36.99	-13.82
		710.0	-1.90	1 / 25	24.95	20.90	0.123	34.77	-13.87	23.05	0.202	36.99	-13.94
		711.0	-1.90	1 / 0	25.29	21.24	0.133	34.77	-13.53	23.39	0.218	36.99	-13.60
	16-QAM	709.0	-1.90	1 / 0	24.51	20.46	0.111	34.77	-14.31	22.61	0.182	36.99	-14.38
	64-QAM	711.0	-1.90	1 / 25	23.59	19.54	0.090	34.77	-15.23	21.69	0.148	36.99	-15.30
	256-QAM	711.0	-1.90	1 / 49	20.51	16.46	0.044	34.77	-18.31	18.61	0.073	36.99	-18.38

Table 7-6. Antenna 4 ERP/EIRP Data (LTE Band 17)

LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-1.30	1 / 24	25.29	21.84	0.153	34.77	-12.93	23.99	0.251	36.99	-13.00
		782.0	-1.30	1 / 0	25.31	21.86	0.153	34.77	-12.91	24.01	0.252	36.99	-12.98
		784.5	-1.30	1 / 24	24.91	21.46	0.140	34.77	-13.31	23.61	0.229	36.99	-13.38
	16-QAM	782.0	-1.30	1 / 0	24.67	21.22	0.132	34.77	-13.56	23.37	0.217	36.99	-13.62
	64-QAM	784.5	-1.30	1 / 12	23.52	20.07	0.102	34.77	-14.70	22.22	0.167	36.99	-14.77
	256-QAM	784.5	-1.30	1 / 12	20.65	17.20	0.052	34.77	-17.57	19.35	0.086	36.99	-17.64
10 MHz	QPSK	782.0	-1.30	1 / 0	25.26	21.81	0.152	34.77	-12.96	23.96	0.249	36.99	-13.03
	16-QAM	782.0	-1.30	1 / 0	24.37	20.92	0.124	34.77	-13.85	23.07	0.203	36.99	-13.92
	64-QAM	782.0	-1.30	1 / 0	23.44	19.99	0.100	34.77	-14.78	22.14	0.164	36.99	-14.85
	256-QAM	782.0	-1.30	1 / 0	20.84	17.39	0.055	34.77	-17.38	19.54	0.090	36.99	-17.45

Table 7-7. Antenna 4 ERP/EIRP Data (LTE Band 13)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 237 of 305

NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	0.60	1 / 12	25.02	25.62	0.365	30.00	-4.38
		1745.0	0.60	1 / 12	24.99	25.59	0.362	30.00	-4.41
		1777.5	0.60	1 / 12	24.87	25.47	0.352	30.00	-4.53
	QPSK	1712.5	0.60	1 / 12	25.00	25.60	0.363	30.00	-4.40
		1745.0	0.60	1 / 12	25.06	25.66	0.368	30.00	-4.34
		1777.5	0.60	1 / 24	25.15	25.75	0.376	30.00	-4.25
	16-QAM	1777.5	0.60	1 / 24	24.13	24.73	0.297	30.00	-5.27
	64-QAM	1777.5	0.60	1 / 0	22.74	23.34	0.216	30.00	-6.66
10 MHz	$\pi/2$ BPSK	1712.5	0.60	1 / 24	20.43	21.03	0.127	30.00	-8.97
		1715.0	0.60	1 / 0	24.83	25.43	0.349	30.00	-4.57
		1745.0	0.60	1 / 0	25.14	25.74	0.375	30.00	-4.26
	QPSK	1775.0	0.60	1 / 0	25.40	26.00	0.398	30.00	-4.00
		1715.0	0.60	1 / 0	24.83	25.43	0.349	30.00	-4.57
		1745.0	0.60	1 / 25	25.38	25.98	0.396	30.00	-4.02
	16-QAM	1775.0	0.60	1 / 49	24.99	25.59	0.362	30.00	-4.41
		1775.0	0.60	1 / 0	24.26	24.86	0.306	30.00	-5.14
15 MHz	$\pi/2$ BPSK	1775.0	0.60	1 / 0	22.85	23.45	0.221	30.00	-6.55
		1775.0	0.60	1 / 49	20.31	20.91	0.123	30.00	-9.09
		1717.5	0.60	1 / 0	25.06	25.66	0.368	30.00	-4.34
	QPSK	1745.0	0.60	1 / 0	25.39	25.99	0.397	30.00	-4.01
		1772.5	0.60	1 / 0	25.05	25.65	0.367	30.00	-4.35
		1717.5	0.60	1 / 74	25.20	25.80	0.380	30.00	-4.20
	16-QAM	1745.0	0.60	1 / 37	25.10	25.70	0.371	30.00	-4.30
		1772.5	0.60	1 / 37	25.40	26.00	0.398	30.00	-4.00
20 MHz	$\pi/2$ BPSK	1745.0	0.60	1 / 0	24.27	24.87	0.307	30.00	-5.13
		1717.5	0.60	1 / 0	22.50	23.10	0.204	30.00	-6.90
		1717.5	0.60	1 / 37	20.21	20.81	0.121	30.00	-9.19
	QPSK	1720.0	0.60	1 / 0	25.25	25.85	0.385	30.00	-4.15
		1745.0	0.60	1 / 99	24.80	25.40	0.347	30.00	-4.60
		1770.0	0.60	1 / 50	24.97	25.57	0.361	30.00	-4.43
	16-QAM	1720.0	0.60	1 / 50	24.99	25.59	0.362	30.00	-4.41
		1745.0	0.60	1 / 0	24.98	25.58	0.361	30.00	-4.42
30 MHz	$\pi/2$ BPSK	1770.0	0.60	1 / 99	24.94	25.54	0.358	30.00	-4.46
		1745.0	0.60	1 / 50	24.30	24.90	0.309	30.00	-5.10
		1745.0	0.60	1 / 99	22.80	23.40	0.219	30.00	-6.60
	QPSK	1745.0	0.60	1 / 99	20.64	21.24	0.133	30.00	-8.76
		1725.0	0.60	1 / 50	25.18	25.78	0.379	30.00	-4.22
		1745.0	0.60	1 / 50	25.11	25.71	0.373	30.00	-4.29
	16-QAM	1765.0	0.60	1 / 0	25.26	25.86	0.386	30.00	-4.14
		1725.0	0.60	1 / 99	25.23	25.83	0.383	30.00	-4.17
40 MHz	$\pi/2$ BPSK	1745.0	0.60	1 / 99	25.40	26.00	0.398	30.00	-4.00
		1765.0	0.60	1 / 99	25.32	25.92	0.391	30.00	-4.08
		1725.0	0.60	1 / 0	24.43	25.03	0.319	30.00	-4.97
	QPSK	1745.0	0.60	1 / 99	22.81	23.41	0.219	30.00	-6.59
		1765.0	0.60	1 / 50	20.53	21.13	0.130	30.00	-8.87
		1730.0	0.60	1 / 0	25.24	25.84	0.384	30.00	-4.16
	16-QAM	1745.0	0.60	1 / 99	25.17	25.77	0.378	30.00	-4.23
		1760.0	0.60	1 / 0	25.00	25.60	0.363	30.00	-4.40

Table 7-8. Antenna 4 EIRP Data (NR Band n66)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 238 of 305

NR Band n71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	665.5	-2.20	1 / 12	25.10	20.75	0.119	34.77	-14.02	22.90	0.195	36.99	-14.09
		680.5	-2.20	1 / 24	25.13	20.78	0.120	34.77	-13.99	22.93	0.197	36.99	-14.06
		695.5	-2.20	1 / 0	24.77	20.42	0.110	34.77	-14.36	22.57	0.181	36.99	-14.42
	QPSK	665.5	-2.20	1 / 12	25.17	20.82	0.121	34.77	-13.95	22.97	0.198	36.99	-14.02
		680.5	-2.20	1 / 12	25.34	20.99	0.125	34.77	-13.79	23.14	0.206	36.99	-13.85
		695.5	-2.20	1 / 0	24.83	20.48	0.112	34.77	-14.29	22.63	0.183	36.99	-14.36
	16-QAM	680.5	-2.20	1 / 12	24.26	19.91	0.098	34.77	-14.86	22.06	0.161	36.99	-14.93
		680.5	-2.20	1 / 0	22.27	17.92	0.062	34.77	-16.85	20.07	0.102	36.99	-16.92
		665.5	-2.20	1 / 0	20.12	15.77	0.038	34.77	-19.00	17.92	0.062	36.99	-19.07
10 MHz	$\pi/2$ BPSK	668.0	-2.20	1 / 25	24.95	20.60	0.115	34.77	-14.17	22.75	0.188	36.99	-14.24
		680.5	-2.20	1 / 49	25.25	20.90	0.123	34.77	-13.87	23.05	0.202	36.99	-13.93
		693.0	-2.20	1 / 25	25.00	20.65	0.116	34.77	-14.12	22.80	0.191	36.99	-14.19
	QPSK	668.0	-2.20	1 / 0	25.09	20.74	0.118	34.77	-14.03	22.89	0.194	36.99	-14.10
		680.5	-2.20	1 / 25	24.93	20.58	0.114	34.77	-14.19	22.73	0.187	36.99	-14.26
		693.0	-2.20	1 / 0	24.72	20.37	0.109	34.77	-14.40	22.52	0.179	36.99	-14.47
	16-QAM	680.5	-2.20	1 / 25	24.30	19.95	0.099	34.77	-14.83	22.10	0.162	36.99	-14.89
		668.0	-2.20	1 / 0	22.76	18.41	0.069	34.77	-16.36	20.56	0.114	36.99	-16.43
		680.5	-2.20	1 / 0	20.62	16.27	0.042	34.77	-18.50	18.42	0.070	36.99	-18.57
15 MHz	$\pi/2$ BPSK	670.5	-2.20	1 / 0	25.50	21.15	0.130	34.77	-13.62	23.30	0.214	36.99	-13.69
		680.5	-2.20	1 / 74	24.97	20.62	0.115	34.77	-14.15	22.77	0.189	36.99	-14.22
		690.5	-2.20	1 / 0	25.02	20.67	0.117	34.77	-14.10	22.82	0.192	36.99	-14.17
	QPSK	670.5	-2.20	1 / 37	25.33	20.98	0.125	34.77	-13.79	23.13	0.206	36.99	-13.86
		680.5	-2.20	1 / 0	25.00	20.65	0.116	34.77	-14.12	22.80	0.190	36.99	-14.19
		690.5	-2.20	1 / 0	25.16	20.81	0.121	34.77	-13.96	22.96	0.198	36.99	-14.03
	16-QAM	670.5	-2.20	1 / 37	24.38	20.03	0.101	34.77	-14.74	22.18	0.165	36.99	-14.81
		670.5	-2.20	1 / 0	22.76	18.41	0.069	34.77	-16.36	20.56	0.114	36.99	-16.43
		670.5	-2.20	1 / 37	19.92	15.57	0.036	34.77	-19.20	17.72	0.059	36.99	-19.27
20 MHz	$\pi/2$ BPSK	673.0	-2.20	1 / 0	25.42	21.07	0.128	34.77	-13.70	23.22	0.210	36.99	-13.77
		680.5	-2.20	1 / 0	24.83	20.48	0.112	34.77	-14.29	22.63	0.183	36.99	-14.36
		688.0	-2.20	1 / 50	25.20	20.85	0.122	34.77	-13.92	23.00	0.200	36.99	-13.99
	QPSK	673.0	-2.20	1 / 0	25.29	20.94	0.124	34.77	-13.83	23.09	0.204	36.99	-13.90
		680.5	-2.20	1 / 99	25.14	20.79	0.120	34.77	-13.98	22.94	0.197	36.99	-14.05
		688.0	-2.20	1 / 50	24.86	20.51	0.112	34.77	-14.26	22.66	0.185	36.99	-14.33
	16-QAM	673.0	-2.20	1 / 0	24.36	20.01	0.100	34.77	-14.76	22.16	0.164	36.99	-14.83
		673.0	-2.20	1 / 0	22.62	18.27	0.067	34.77	-16.50	20.42	0.110	36.99	-16.57
		673.0	-2.20	1 / 0	20.22	15.87	0.039	34.77	-18.90	18.02	0.063	36.99	-18.97

Table 7-9. Antenna 4 ERP/EIRP Data (NR Band n71)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 239 of 305

NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	701.5	-1.90	1 / 1	25.29	21.24	0.133	34.77	-13.53	23.39	0.218	36.99	-13.60
		707.5	-1.90	1 / 12	25.32	21.27	0.134	34.77	-13.50	23.42	0.220	36.99	-13.57
		713.5	-1.90	1 / 23	25.66	21.61	0.145	34.77	-13.16	23.76	0.238	36.99	-13.23
	QPSK	701.5	-1.90	1 / 12	25.45	21.40	0.138	34.77	-13.37	23.55	0.226	36.99	-13.44
		707.5	-1.90	1 / 12	25.44	21.39	0.138	34.77	-13.39	23.54	0.226	36.99	-13.45
		713.5	-1.90	1 / 12	25.31	21.26	0.134	34.77	-13.51	23.41	0.220	36.99	-13.58
	16-QAM	701.5	-1.90	1 / 12	24.73	20.68	0.117	34.77	-14.10	22.83	0.192	36.99	-14.16
	64-QAM	701.5	-1.90	1 / 1	23.05	19.00	0.079	34.77	-15.77	21.15	0.130	36.99	-15.84
10 MHz	π/2 BPSK	701.5	-1.90	1 / 12	21.07	17.02	0.050	34.77	-17.75	19.17	0.083	36.99	-17.82
		704.0	-1.90	1 / 50	25.39	21.34	0.136	34.77	-13.43	23.49	0.223	36.99	-13.50
		707.5	-1.90	1 / 26	25.53	21.48	0.141	34.77	-13.29	23.63	0.231	36.99	-13.36
	QPSK	711.0	-1.90	1 / 26	25.46	21.41	0.138	34.77	-13.36	23.56	0.227	36.99	-13.43
		704.0	-1.90	1 / 1	25.69	21.64	0.146	34.77	-13.13	23.79	0.239	36.99	-13.20
		707.5	-1.90	1 / 1	25.39	21.34	0.136	34.77	-13.43	23.49	0.224	36.99	-13.50
	16-QAM	711.0	-1.90	1 / 26	25.11	21.06	0.128	34.77	-13.71	23.21	0.209	36.99	-13.78
		704.0	-1.90	1 / 1	24.84	20.79	0.120	34.77	-13.98	22.94	0.197	36.99	-14.05
15 MHz	π/2 BPSK	707.5	-1.90	1 / 26	23.12	19.07	0.081	34.77	-15.70	21.22	0.132	36.99	-15.77
		704.0	-1.90	1 / 1	20.99	16.94	0.049	34.77	-17.83	19.09	0.081	36.99	-17.90
		706.5	-1.90	1 / 1	25.40	21.35	0.136	34.77	-13.43	23.50	0.224	36.99	-13.49
	QPSK	707.5	-1.90	1 / 1	25.58	21.53	0.142	34.77	-13.24	23.68	0.233	36.99	-13.31
		708.5	-1.90	1 / 1	25.24	21.19	0.132	34.77	-13.58	23.34	0.216	36.99	-13.65
		706.5	-1.90	1 / 39	25.46	21.41	0.138	34.77	-13.36	23.56	0.227	36.99	-13.43
	16-QAM	707.5	-1.90	1 / 1	25.16	21.11	0.129	34.77	-13.66	23.26	0.212	36.99	-13.73
		708.5	-1.90	1 / 1	25.23	21.18	0.131	34.77	-13.59	23.33	0.215	36.99	-13.66
15 MHz	64-QAM	706.5	-1.90	1 / 1	24.74	20.69	0.117	34.77	-14.08	22.84	0.192	36.99	-14.15
	256-QAM	706.5	-1.90	1 / 77	23.21	19.16	0.082	34.77	-15.61	21.31	0.135	36.99	-15.68
15 MHz	256-QAM	708.5	-1.90	1 / 39	20.99	16.94	0.049	34.77	-17.83	19.09	0.081	36.99	-17.89

Table 7-10. Antenna 4 ERP/EIRP Data (NR Band n12)

Uplink CA LTE Band 66B/C

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B66	20MHz + 20MHz	QPSK	132072	1720.0	1	99	QPSK	132270	1739.8	1	0	25.53	0.60	26.13	0.410	40.61	-14.48
				132322	1745.0	1	99		132520	1764.8	1	0	25.45	0.60	26.05	0.403	40.61	-14.56
				132572	1770.0	1	0		132374	1750.2	1	99	25.39	0.60	25.99	0.397	40.61	-14.62
			QPSK	132072	1720	100	0	QPSK	132270	1739.8	100	0	23.67	0.60	24.27	0.267	40.61	-16.34
			16-QAM	132072	1720	100	0	16-QAM	132270	1739.8	100	0	22.65	0.60	23.25	0.211	40.61	-17.36
			64-QAM	132072	1720	100	0	64-QAM	132270	1739.8	100	0	22.70	0.60	23.30	0.214	40.61	-17.31
			256-QAM	132072	1720	100	0	256-QAM	132270	1739.8	100	0	20.64	0.60	21.24	0.133	40.61	-19.37

Table 7-11. Antenna 4 EIRP Data (ULCA LTE Band 66)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	25.20	0.60	25.80	0.380	30.00	-4.20
1732.60	WCDMA1700	25.28	0.60	25.88	0.387	30.00	-4.12
1752.60	WCDMA1700	25.36	0.60	25.96	0.394	30.00	-4.04

Table 7-12. Antenna 4 EIRP Data (WCDMA AWS)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 240 of 305

7.6.2 Antenna 2a – EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-2.70	1 / 3	23.68	20.98	0.125	30.00	-9.02
		1745.0	-2.70	1 / 3	23.73	21.03	0.127	30.00	-8.97
		1779.3	-2.70	1 / 3	23.83	21.13	0.130	30.00	-8.87
	16-QAM	1779.3	-2.70	1 / 3	22.90	20.20	0.105	30.00	-9.80
	64-QAM	1779.3	-2.70	1 / 3	22.36	19.66	0.092	30.00	-10.34
	256-QAM	1745.0	-2.70	1 / 3	19.34	16.64	0.046	30.00	-13.36
3 MHz	QPSK	1711.5	-2.70	1 / 0	23.68	20.98	0.125	30.00	-9.02
		1745.0	-2.70	1 / 14	23.78	21.08	0.128	30.00	-8.92
		1778.5	-2.70	1 / 0	23.75	21.05	0.127	30.00	-8.95
	16-QAM	1778.5	-2.70	1 / 7	23.12	20.42	0.110	30.00	-9.58
	64-QAM	1778.5	-2.70	1 / 0	22.47	19.77	0.095	30.00	-10.23
	256-QAM	1778.5	-2.70	1 / 0	19.40	16.70	0.047	30.00	-13.30
5 MHz	QPSK	1712.5	-2.70	1 / 12	23.79	21.09	0.129	30.00	-8.91
		1745.0	-2.70	1 / 0	23.83	21.13	0.130	30.00	-8.87
		1777.5	-2.70	1 / 12	23.67	20.97	0.125	30.00	-9.03
	16-QAM	1745.0	-2.70	1 / 12	23.22	20.52	0.113	30.00	-9.48
	64-QAM	1712.5	-2.70	1 / 12	22.22	19.52	0.090	30.00	-10.48
	256-QAM	1777.5	-2.70	1 / 12	19.29	16.59	0.046	30.00	-13.41
10 MHz	QPSK	1715.0	-2.70	1 / 0	23.70	21.00	0.126	30.00	-9.00
		1745.0	-2.70	1 / 0	23.75	21.05	0.127	30.00	-8.95
		1775.0	-2.70	1 / 0	23.74	21.04	0.127	30.00	-8.96
	16-QAM	1775.0	-2.70	1 / 0	23.15	20.45	0.111	30.00	-9.55
	64-QAM	1775.0	-2.70	1 / 25	22.39	19.69	0.093	30.00	-10.31
	256-QAM	1775.0	-2.70	1 / 0	19.39	16.69	0.047	30.00	-13.31
15 MHz	QPSK	1717.5	-2.70	1 / 37	23.81	21.11	0.129	30.00	-8.89
		1745.0	-2.70	1 / 37	23.79	21.09	0.129	30.00	-8.91
		1772.5	-2.70	1 / 37	23.80	21.10	0.129	30.00	-8.90
	16-QAM	1772.5	-2.70	1 / 37	23.16	20.46	0.111	30.00	-9.54
	64-QAM	1772.5	-2.70	1 / 37	22.48	19.78	0.095	30.00	-10.22
	256-QAM	1772.5	-2.70	1 / 37	19.45	16.75	0.047	30.00	-13.25
20 MHz	QPSK	1720.0	-2.70	1 / 50	23.86	21.16	0.131	30.00	-8.84
		1745.0	-2.70	1 / 0	23.63	20.93	0.124	30.00	-9.07
		1770.0	-2.70	1 / 50	23.90	21.20	0.132	30.00	-8.80
	16-QAM	1770.0	-2.70	1 / 50	23.12	20.42	0.110	30.00	-9.58
	64-QAM	1745.0	-2.70	1 / 0	22.55	19.85	0.097	30.00	-10.15
	256-QAM	1745.0	-2.70	1 / 50	19.33	16.63	0.046	30.00	-13.37

Table 7-13. Antenna 2a EIRP Data (LTE Band 66)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 241 of 305

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-2.70	1 / 0	23.74	21.04	0.127	30.00	-8.96
		1732.5	-2.70	1 / 3	23.62	20.92	0.124	30.00	-9.08
		1754.3	-2.70	1 / 3	23.79	21.09	0.129	30.00	-8.91
	16-QAM	1732.5	-2.70	1 / 3	22.95	20.25	0.106	30.00	-9.75
	64-QAM	1732.5	-2.70	1 / 3	22.43	19.73	0.094	30.00	-10.27
	256-QAM	1754.3	-2.70	1 / 3	19.06	16.36	0.043	30.00	-13.64
3 MHz	QPSK	1711.5	-2.70	1 / 14	23.82	21.12	0.129	30.00	-8.88
		1732.5	-2.70	1 / 14	23.66	20.96	0.125	30.00	-9.04
		1753.5	-2.70	1 / 14	23.56	20.86	0.122	30.00	-9.14
	16-QAM	1732.5	-2.70	1 / 7	23.09	20.39	0.109	30.00	-9.61
	64-QAM	1732.5	-2.70	1 / 14	22.53	19.83	0.096	30.00	-10.17
	256-QAM	1711.5	-2.70	1 / 7	19.09	16.39	0.044	30.00	-13.61
5 MHz	QPSK	1712.5	-2.70	1 / 24	23.75	21.05	0.127	30.00	-8.95
		1732.5	-2.70	1 / 24	23.73	21.03	0.127	30.00	-8.97
		1752.5	-2.70	1 / 12	23.79	21.09	0.129	30.00	-8.91
	16-QAM	1752.5	-2.70	1 / 12	23.17	20.47	0.111	30.00	-9.53
	64-QAM	1732.5	-2.70	1 / 12	22.51	19.81	0.096	30.00	-10.19
	256-QAM	1712.5	-2.70	1 / 12	19.16	16.46	0.044	30.00	-13.54
10 MHz	QPSK	1715.0	-2.70	1 / 25	23.88	21.18	0.131	30.00	-8.82
		1732.5	-2.70	1 / 25	23.62	20.92	0.124	30.00	-9.08
		1750.0	-2.70	1 / 49	23.59	20.89	0.123	30.00	-9.11
	16-QAM	1732.5	-2.70	1 / 49	23.07	20.37	0.109	30.00	-9.63
	64-QAM	1732.5	-2.70	1 / 49	22.57	19.87	0.097	30.00	-10.13
	256-QAM	1715.0	-2.70	1 / 25	19.04	16.34	0.043	30.00	-13.66
15 MHz	QPSK	1717.5	-2.70	1 / 37	23.83	21.13	0.130	30.00	-8.87
		1732.5	-2.70	1 / 0	23.71	21.01	0.126	30.00	-8.99
		1747.5	-2.70	1 / 0	23.61	20.91	0.123	30.00	-9.09
	16-QAM	1732.5	-2.70	1 / 0	23.17	20.47	0.111	30.00	-9.53
	64-QAM	1732.5	-2.70	1 / 0	22.53	19.83	0.096	30.00	-10.17
	256-QAM	1717.5	-2.70	1 / 0	19.07	16.37	0.043	30.00	-13.63
20 MHz	QPSK	1720.0	-2.70	1 / 0	23.84	21.14	0.130	30.00	-8.86
		1732.5	-2.70	1 / 0	23.78	21.08	0.128	30.00	-8.92
		1745.0	-2.70	1 / 0	23.70	21.00	0.126	30.00	-9.00
	16-QAM	1720.0	-2.70	1 / 0	22.85	20.15	0.104	30.00	-9.85
	64-QAM	1745.0	-2.70	1 / 0	22.43	19.73	0.094	30.00	-10.27
	256-QAM	1745.0	-2.70	1 / 0	19.46	16.76	0.047	30.00	-13.24

Table 7-14. Antenna 2a EIRP Data (LTE Band 4)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 242 of 305

NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	-2.70	1 / 0	23.90	21.20	0.132	30.00	-8.80
		1745.0	-2.70	1 / 24	23.85	21.15	0.130	30.00	-8.85
		1777.5	-2.70	1 / 24	23.69	20.99	0.126	30.00	-9.01
	QPSK	1712.5	-2.70	1 / 0	23.80	21.10	0.129	30.00	-8.90
		1745.0	-2.70	1 / 24	23.72	21.02	0.127	30.00	-8.98
		1777.5	-2.70	1 / 24	23.77	21.07	0.128	30.00	-8.93
	16-QAM	1712.5	-2.70	1 / 0	23.50	20.80	0.120	30.00	-9.20
	64-QAM	1777.5	-2.70	1 / 12	21.41	18.71	0.074	30.00	-11.29
	256-QAM	1745.0	-2.70	1 / 12	19.24	16.54	0.045	30.00	-13.46
10 MHz	$\pi/2$ BPSK	1715.0	-2.70	1 / 25	23.77	21.07	0.128	30.00	-8.93
		1745.0	-2.70	1 / 49	23.81	21.11	0.129	30.00	-8.89
		1775.0	-2.70	1 / 0	23.86	21.16	0.131	30.00	-8.84
	QPSK	1715.0	-2.70	1 / 49	23.90	21.20	0.132	30.00	-8.80
		1745.0	-2.70	1 / 49	23.60	20.90	0.123	30.00	-9.10
		1775.0	-2.70	1 / 0	23.66	20.96	0.125	30.00	-9.04
	16-QAM	1715.0	-2.70	1 / 0	23.01	20.31	0.107	30.00	-9.69
	64-QAM	1745.0	-2.70	1 / 25	21.04	18.34	0.068	30.00	-11.66
	256-QAM	1715.0	-2.70	1 / 0	19.20	16.50	0.045	30.00	-13.50
15 MHz	$\pi/2$ BPSK	1717.5	-2.70	1 / 37	23.90	21.20	0.132	30.00	-8.80
		1745.0	-2.70	1 / 74	23.62	20.92	0.123	30.00	-9.08
		1772.5	-2.70	1 / 74	23.85	21.15	0.130	30.00	-8.85
	QPSK	1717.5	-2.70	1 / 74	23.85	21.15	0.130	30.00	-8.85
		1745.0	-2.70	1 / 74	23.64	20.94	0.124	30.00	-9.06
		1772.5	-2.70	1 / 0	23.70	21.00	0.126	30.00	-9.00
	16-QAM	1745.0	-2.70	1 / 37	22.97	20.27	0.106	30.00	-9.73
	64-QAM	1745.0	-2.70	1 / 0	21.38	18.68	0.074	30.00	-11.32
	256-QAM	1745.0	-2.70	1 / 74	19.25	16.55	0.045	30.00	-13.45
20 MHz	$\pi/2$ BPSK	1720.0	-2.70	1 / 0	23.90	21.20	0.132	30.00	-8.80
		1745.0	-2.70	1 / 50	23.85	21.15	0.130	30.00	-8.85
		1770.0	-2.70	1 / 0	23.82	21.12	0.130	30.00	-8.88
	QPSK	1720.0	-2.70	1 / 99	23.88	21.18	0.131	30.00	-8.82
		1745.0	-2.70	1 / 50	23.60	20.90	0.123	30.00	-9.10
		1770.0	-2.70	1 / 50	23.90	21.20	0.132	30.00	-8.80
	16-QAM	1770.0	-2.70	1 / 50	23.02	20.32	0.108	30.00	-9.68
	64-QAM	1770.0	-2.70	1 / 50	21.64	18.94	0.078	30.00	-11.06
	256-QAM	1745.0	-2.70	1 / 50	19.45	16.75	0.047	30.00	-13.25
30 MHz	$\pi/2$ BPSK	1725.0	-2.70	1 / 50	23.80	21.10	0.129	30.00	-8.90
		1745.0	-2.70	1 / 99	23.90	21.20	0.132	30.00	-8.80
		1765.0	-2.70	1 / 0	23.89	21.19	0.132	30.00	-8.81
	QPSK	1725.0	-2.70	1 / 50	23.87	21.17	0.131	30.00	-8.83
		1745.0	-2.70	1 / 0	23.85	21.15	0.130	30.00	-8.85
		1765.0	-2.70	1 / 0	23.78	21.08	0.128	30.00	-8.92
	16-QAM	1725.0	-2.70	1 / 50	23.32	20.62	0.115	30.00	-9.38
	64-QAM	1725.0	-2.70	1 / 50	21.69	18.99	0.079	30.00	-11.01
	256-QAM	1725.0	-2.70	1 / 99	19.60	16.90	0.049	30.00	-13.10
40 MHz	$\pi/2$ BPSK	1730.0	-2.70	1 / 50	23.65	20.95	0.124	30.00	-9.05
		1745.0	-2.70	1 / 99	23.79	21.09	0.129	30.00	-8.91
		1760.0	-2.70	1 / 0	23.90	21.20	0.132	30.00	-8.80
	QPSK	1730.0	-2.70	1 / 50	23.75	21.05	0.127	30.00	-8.95
		1745.0	-2.70	1 / 50	23.72	21.02	0.126	30.00	-8.98
		1760.0	-2.70	1 / 99	23.76	21.06	0.128	30.00	-8.94
	16-QAM	1760.0	-2.70	1 / 99	23.11	20.41	0.110	30.00	-9.59
	64-QAM	1745.0	-2.70	1 / 0	21.40	18.70	0.074	30.00	-11.30
	256-QAM	1745.0	-2.70	1 / 0	19.37	16.67	0.047	30.00	-13.33

Table 7-15. Antenna 2a EIRP Data (NR Band n66)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 243 of 305

Uplink CA LTE Band 66B/C

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B66	20MHz + 20MHz	QPSK	132072	1720.0	1	99	QPSK	132270	1739.8	1	0	23.90	-2.70	21.20	0.132	40.61	-19.41
				132322	1745.0	1	99		132520	1764.8	1	0	23.79	-2.70	21.09	0.129	40.61	-19.52
				132572	1770.0	1	0		132374	1750.2	1	99	23.84	-2.70	21.14	0.130	40.61	-19.47
			QPSK	132072	1720	100	0	QPSK	132270	1739.8	100	0	22.28	-2.70	19.58	0.091	40.61	-21.03
			16-QAM	132072	1720	100	0	16-QAM	132270	1739.8	100	0	21.31	-2.70	18.61	0.073	40.61	-22.00
			64-QAM	132072	1720	100	0	64-QAM	132270	1739.8	100	0	21.33	-2.70	18.63	0.073	40.61	-21.98
			256-QAM	132072	1720	100	0	256-QAM	132270	1739.8	100	0	19.29	-2.70	16.59	0.046	40.61	-24.02

Table 7-16. Antenna 2a EIRP Data (ULCA LTE Band 66)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	23.59	-2.70	20.89	0.123	30.00	-9.11
1732.60	WCDMA1700	23.64	-2.70	20.94	0.124	30.00	-9.06
1752.60	WCDMA1700	23.62	-2.70	20.92	0.124	30.00	-9.08

Table 7-17. Antenna 2a EIRP Data (WCDMA AWS)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 244 of 305

7.6.3 Antenna 3b – ERP/EIRP

LTE Band 71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	665.5	-4.40	1 / 0	24.77	18.22	0.066	34.77	-16.55	20.37	0.109	36.99	-16.62
		680.5	-4.40	1 / 12	25.00	18.45	0.070	34.77	-16.33	20.60	0.115	36.99	-16.39
		695.5	-4.40	1 / 0	24.78	18.23	0.066	34.77	-16.55	20.38	0.109	36.99	-16.61
	16-QAM	695.5	-4.40	1 / 24	24.25	17.70	0.059	34.77	-17.07	19.85	0.097	36.99	-17.14
	64-QAM	695.5	-4.40	1 / 0	23.27	16.72	0.047	34.77	-18.05	18.87	0.077	36.99	-18.12
	256-QAM	680.5	-4.40	1 / 0	20.15	13.60	0.023	34.77	-21.18	15.75	0.038	36.99	-21.24
10 MHz	QPSK	668.0	-4.40	1 / 0	24.88	18.33	0.068	34.77	-16.44	20.48	0.112	36.99	-16.51
		680.5	-4.40	1 / 25	24.70	18.15	0.065	34.77	-16.62	20.30	0.107	36.99	-16.69
		693.0	-4.40	1 / 0	24.78	18.23	0.067	34.77	-16.54	20.38	0.109	36.99	-16.61
	16-QAM	693.0	-4.40	1 / 25	24.36	17.81	0.060	34.77	-16.96	19.96	0.099	36.99	-17.03
	64-QAM	680.5	-4.40	1 / 0	23.13	16.58	0.046	34.77	-18.19	18.73	0.075	36.99	-18.26
	256-QAM	668.0	-4.40	1 / 25	20.20	13.65	0.023	34.77	-21.12	15.80	0.038	36.99	-21.19
15 MHz	QPSK	670.5	-4.40	1 / 37	24.80	18.25	0.067	34.77	-16.52	20.40	0.110	36.99	-16.59
		680.5	-4.40	1 / 74	24.77	18.22	0.066	34.77	-16.56	20.37	0.109	36.99	-16.62
		690.5	-4.40	1 / 0	24.77	18.22	0.066	34.77	-16.55	20.37	0.109	36.99	-16.62
	16-QAM	690.5	-4.40	1 / 37	24.36	17.81	0.060	34.77	-16.96	19.96	0.099	36.99	-17.03
	64-QAM	680.5	-4.40	1 / 0	23.38	16.83	0.048	34.77	-17.94	18.98	0.079	36.99	-18.01
	256-QAM	690.5	-4.40	1 / 0	20.29	13.74	0.024	34.77	-21.04	15.89	0.039	36.99	-21.10
20 MHz	QPSK	673.0	-4.40	1 / 50	24.76	18.21	0.066	34.77	-16.56	20.36	0.109	36.99	-16.63
		680.5	-4.40	1 / 50	24.90	18.35	0.068	34.77	-16.42	20.50	0.112	36.99	-16.49
		688.0	-4.40	1 / 0	24.68	18.13	0.065	34.77	-16.64	20.28	0.107	36.99	-16.71
	16-QAM	673.0	-4.40	1 / 99	24.24	17.69	0.059	34.77	-17.08	19.84	0.096	36.99	-17.15
	64-QAM	673.0	-4.40	1 / 0	23.23	16.68	0.047	34.77	-18.10	18.83	0.076	36.99	-18.16
	256-QAM	680.5	-4.40	1 / 50	20.34	13.79	0.024	34.77	-20.98	15.94	0.039	36.99	-21.05

Table 7-18. Antenna 3b ERP/EIRP Data (LTE Band 71)

LTE Band 12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	699.7	-4.80	1 / 5	24.84	17.89	0.062	34.77	-16.88	20.04	0.101	36.99	-16.95
		707.5	-4.80	1 / 3	24.77	17.82	0.060	34.77	-16.96	19.97	0.099	36.99	-17.02
		715.3	-4.80	1 / 5	24.79	17.84	0.061	34.77	-16.93	19.99	0.100	36.99	-17.00
	16-QAM	699.7	-4.80	1 / 3	24.12	17.17	0.052	34.77	-17.61	19.32	0.085	36.99	-17.67
	64-QAM	715.3	-4.80	1 / 3	23.48	16.53	0.045	34.77	-18.24	18.68	0.074	36.99	-18.31
	256-QAM	699.7	-4.80	1 / 5	19.99	13.04	0.020	34.77	-21.73	15.19	0.033	36.99	-21.80
3 MHz	QPSK	700.5	-4.80	1 / 0	24.76	17.81	0.060	34.77	-16.96	19.96	0.099	36.99	-17.03
		707.5	-4.80	1 / 0	24.92	17.97	0.063	34.77	-16.80	20.12	0.103	36.99	-16.87
		714.5	-4.80	1 / 0	24.89	17.94	0.062	34.77	-16.84	20.09	0.102	36.99	-16.90
	16-QAM	700.5	-4.80	1 / 7	24.31	17.36	0.054	34.77	-17.41	19.51	0.089	36.99	-17.48
	64-QAM	707.5	-4.80	1 / 14	23.28	16.33	0.043	34.77	-18.44	18.48	0.070	36.99	-18.51
	256-QAM	714.5	-4.80	1 / 0	20.24	13.29	0.021	34.77	-21.48	15.44	0.035	36.99	-21.55
5 MHz	QPSK	701.5	-4.80	1 / 12	24.87	17.92	0.062	34.77	-16.85	20.07	0.102	36.99	-16.92
		707.5	-4.80	1 / 0	24.79	17.84	0.061	34.77	-16.93	19.99	0.100	36.99	-17.00
		713.5	-4.80	1 / 0	24.80	17.85	0.061	34.77	-16.92	20.00	0.100	36.99	-16.99
	16-QAM	707.5	-4.80	1 / 0	24.31	17.36	0.054	34.77	-17.41	19.51	0.089	36.99	-17.48
	64-QAM	707.5	-4.80	1 / 0	23.26	16.31	0.043	34.77	-18.46	18.46	0.070	36.99	-18.53
	256-QAM	713.5	-4.80	1 / 12	20.28	13.33	0.022	34.77	-21.44	15.48	0.035	36.99	-21.51
10 MHz	QPSK	704.0	-4.80	1 / 0	24.90	17.95	0.062	34.77	-16.82	20.10	0.102	36.99	-16.89
		707.5	-4.80	1 / 49	24.79	17.84	0.061	34.77	-16.93	19.99	0.100	36.99	-17.00
		711.0	-4.80	1 / 25	24.91	17.96	0.062	34.77	-16.81	20.11	0.102	36.99	-16.88
	16-QAM	707.5	-4.80	1 / 0	24.14	17.19	0.052	34.77	-17.58	19.34	0.086	36.99	-17.65
	64-QAM	711.0	-4.80	1 / 25	23.22	16.27	0.042	34.77	-18.50	18.42	0.069	36.99	-18.57
	256-QAM	704.0	-4.80	1 / 25	20.18	13.23	0.021	34.77	-21.54	15.38	0.035	36.99	-21.61

Table 7-19. Antenna 3b ERP/EIRP Data (LTE Band 12)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 245 of 305

LTE Band 17

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	706.5	-4.80	1 / 12	24.98	18.03	0.063	34.77	-16.74	20.18	0.104	36.99	-16.81
		710.0	-4.80	1 / 12	25.04	18.09	0.064	34.77	-16.68	20.24	0.106	36.99	-16.75
		713.5	-4.80	1 / 12	24.88	17.93	0.062	34.77	-16.84	20.08	0.102	36.99	-16.91
	16-QAM	706.5	-4.80	1 / 12	24.48	17.53	0.057	34.77	-17.24	19.68	0.093	36.99	-17.31
	64-QAM	713.5	-4.80	1 / 0	23.43	16.48	0.045	34.77	-18.29	18.63	0.073	36.99	-18.35
10 MHz	256-QAM	706.5	-4.80	1 / 12	20.46	13.51	0.022	34.77	-21.26	15.66	0.037	36.99	-21.33
	QPSK	709.0	-4.80	1 / 25	24.85	17.90	0.062	34.77	-16.87	20.05	0.101	36.99	-16.94
		710.0	-4.80	1 / 0	24.80	17.85	0.061	34.77	-16.92	20.00	0.100	36.99	-16.99
		711.0	-4.80	1 / 0	24.96	18.01	0.063	34.77	-16.76	20.16	0.104	36.99	-16.83
	16-QAM	709.0	-4.80	1 / 0	24.37	17.42	0.055	34.77	-17.35	19.57	0.091	36.99	-17.42
	64-QAM	709.0	-4.80	1 / 0	23.34	16.39	0.044	34.77	-18.38	18.54	0.071	36.99	-18.45
	256-QAM	709.0	-4.80	1 / 49	20.38	13.43	0.022	34.77	-21.34	15.58	0.036	36.99	-21.41

Table 7-20. Antenna 3b ERP/EIRP Data (LTE Band 17)

LTE Band 13

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	QPSK	779.5	-2.30	1 / 12	24.93	20.48	0.112	34.77	-14.29	22.63	0.183	36.99	-14.36
		782.0	-2.30	1 / 0	24.91	20.46	0.111	34.77	-14.32	22.61	0.182	36.99	-14.38
		784.5	-2.30	1 / 0	24.86	20.41	0.110	34.77	-14.36	22.56	0.180	36.99	-14.43
	16-QAM	779.5	-2.30	1 / 24	24.62	20.17	0.104	34.77	-14.60	22.32	0.171	36.99	-14.67
	64-QAM	779.5	-2.30	1 / 12	23.43	18.98	0.079	34.77	-15.79	21.13	0.130	36.99	-15.86
10 MHz	256-QAM	782.0	-2.30	1 / 24	20.61	16.16	0.041	34.77	-18.61	18.31	0.068	36.99	-18.68
	QPSK	782.0	-2.30	1 / 0	24.99	20.54	0.113	34.77	-14.24	22.69	0.186	36.99	-14.30
	16-QAM	782.0	-2.30	1 / 25	24.46	20.01	0.100	34.77	-14.76	22.16	0.164	36.99	-14.83
	64-QAM	782.0	-2.30	1 / 49	23.01	18.56	0.072	34.77	-16.21	20.71	0.118	36.99	-16.28
	256-QAM	782.0	-2.30	1 / 25	20.26	15.81	0.038	34.77	-18.96	17.96	0.063	36.99	-19.03

Table 7-21. Antenna 3b ERP/EIRP Data (LTE Band 13)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 246 of 305

NR Band n71

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	665.5	-4.40	1 / 12	24.75	18.20	0.066	34.77	-16.57	20.35	0.109	36.99	-16.64
		680.5	-4.40	1 / 24	24.61	18.06	0.064	34.77	-16.71	20.21	0.105	36.99	-16.78
		695.5	-4.40	1 / 0	24.31	17.76	0.060	34.77	-17.01	19.91	0.098	36.99	-17.08
	QPSK	665.5	-4.40	1 / 0	24.95	18.40	0.069	34.77	-16.37	20.55	0.113	36.99	-16.44
		680.5	-4.40	1 / 12	24.70	18.15	0.065	34.77	-16.62	20.30	0.107	36.99	-16.69
		695.5	-4.40	1 / 12	24.43	17.88	0.061	34.77	-16.89	20.03	0.101	36.99	-16.96
	16-QAM	695.5	-4.40	1 / 12	23.44	16.89	0.049	34.77	-17.88	19.04	0.080	36.99	-17.95
	64-QAM	665.5	-4.40	1 / 24	22.13	15.58	0.036	34.77	-19.19	17.73	0.059	36.99	-19.26
	256-QAM	680.5	-4.40	1 / 0	19.97	13.42	0.022	34.77	-21.35	15.57	0.036	36.99	-21.42
10 MHz	$\pi/2$ BPSK	668.0	-4.40	1 / 0	24.67	18.12	0.065	34.77	-16.65	20.27	0.106	36.99	-16.72
		680.5	-4.40	1 / 49	24.69	18.14	0.065	34.77	-16.63	20.29	0.107	36.99	-16.70
		693.0	-4.40	1 / 25	24.65	18.10	0.065	34.77	-16.67	20.25	0.106	36.99	-16.74
	QPSK	668.0	-4.40	1 / 49	24.63	18.08	0.064	34.77	-16.70	20.23	0.105	36.99	-16.76
		680.5	-4.40	1 / 49	24.73	18.18	0.066	34.77	-16.59	20.33	0.108	36.99	-16.66
		693.0	-4.40	1 / 0	24.44	17.89	0.061	34.77	-16.88	20.04	0.101	36.99	-16.95
	16-QAM	668.0	-4.40	1 / 0	23.64	17.09	0.051	34.77	-17.68	19.24	0.084	36.99	-17.75
	64-QAM	668.0	-4.40	1 / 0	22.33	15.78	0.038	34.77	-18.99	17.93	0.062	36.99	-19.06
	256-QAM	668.0	-4.40	1 / 25	20.10	13.55	0.023	34.77	-21.22	15.70	0.037	36.99	-21.29
15 MHz	$\pi/2$ BPSK	670.5	-4.40	1 / 0	24.81	18.26	0.067	34.77	-16.51	20.41	0.110	36.99	-16.58
		680.5	-4.40	1 / 74	24.69	18.14	0.065	34.77	-16.63	20.29	0.107	36.99	-16.70
		690.5	-4.40	1 / 0	24.93	18.38	0.069	34.77	-16.40	20.53	0.113	36.99	-16.46
	QPSK	670.5	-4.40	1 / 0	24.97	18.42	0.070	34.77	-16.35	20.57	0.114	36.99	-16.42
		680.5	-4.40	1 / 0	24.77	18.22	0.066	34.77	-16.55	20.37	0.109	36.99	-16.62
		690.5	-4.40	1 / 37	24.42	17.87	0.061	34.77	-16.91	20.02	0.100	36.99	-16.97
	16-QAM	680.5	-4.40	1 / 37	23.66	17.11	0.051	34.77	-17.66	19.26	0.084	36.99	-17.73
	64-QAM	670.5	-4.40	1 / 74	22.36	15.81	0.038	34.77	-18.96	17.96	0.063	36.99	-19.03
	256-QAM	670.5	-4.40	1 / 0	19.81	13.26	0.021	34.77	-21.51	15.41	0.035	36.99	-21.58
20 MHz	$\pi/2$ BPSK	673.0	-4.40	1 / 0	24.69	18.14	0.065	34.77	-16.64	20.29	0.107	36.99	-16.70
		680.5	-4.40	1 / 50	24.89	18.34	0.068	34.77	-16.43	20.49	0.112	36.99	-16.50
		688.0	-4.40	1 / 99	24.58	18.03	0.063	34.77	-16.75	20.18	0.104	36.99	-16.81
	QPSK	673.0	-4.40	1 / 99	24.73	18.18	0.066	34.77	-16.59	20.33	0.108	36.99	-16.66
		680.5	-4.40	1 / 0	24.70	18.15	0.065	34.77	-16.63	20.30	0.107	36.99	-16.69
		688.0	-4.40	1 / 99	24.69	18.14	0.065	34.77	-16.63	20.29	0.107	36.99	-16.70
	16-QAM	680.5	-4.40	1 / 0	23.64	17.09	0.051	34.77	-17.68	19.24	0.084	36.99	-17.75
	64-QAM	688.0	-4.40	1 / 0	22.41	15.86	0.039	34.77	-18.91	18.01	0.063	36.99	-18.98
	256-QAM	673.0	-4.40	1 / 99	20.23	13.68	0.023	34.77	-21.09	15.83	0.038	36.99	-21.16

Table 7-22. Antenna 3b ERP/EIRP Data (NR Band n71)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 247 of 305

NR Band n12

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	701.5	-4.80	1 / 1	25.01	18.06	0.064	34.77	-16.71	20.21	0.105	36.99	-16.78
		707.5	-4.80	1 / 23	24.85	17.90	0.062	34.77	-16.87	20.05	0.101	36.99	-16.94
		713.5	-4.80	1 / 12	24.67	17.72	0.059	34.77	-17.06	19.87	0.097	36.99	-17.12
	QPSK	701.5	-4.80	1 / 1	24.92	17.97	0.063	34.77	-16.80	20.12	0.103	36.99	-16.87
		707.5	-4.80	1 / 12	24.91	17.96	0.063	34.77	-16.81	20.11	0.103	36.99	-16.88
		713.5	-4.80	1 / 23	24.84	17.89	0.062	34.77	-16.88	20.04	0.101	36.99	-16.95
	16-QAM	713.5	-4.80	1 / 1	23.85	16.90	0.049	34.77	-17.87	19.05	0.080	36.99	-17.94
	64-QAM	701.5	-4.80	1 / 12	22.79	15.84	0.038	34.77	-18.93	17.99	0.063	36.99	-19.00
	256-QAM	701.5	-4.80	1 / 1	20.58	13.63	0.023	34.77	-21.14	15.78	0.038	36.99	-21.21
10 MHz	$\pi/2$ BPSK	704.0	-4.80	1 / 1	24.93	17.98	0.063	34.77	-16.79	20.13	0.103	36.99	-16.86
		707.5	-4.80	1 / 26	24.72	17.77	0.060	34.77	-17.00	19.92	0.098	36.99	-17.07
		711.0	-4.80	1 / 50	24.74	17.79	0.060	34.77	-16.98	19.94	0.099	36.99	-17.05
	QPSK	704.0	-4.80	1 / 1	25.01	18.06	0.064	34.77	-16.71	20.21	0.105	36.99	-16.78
		707.5	-4.80	1 / 26	24.91	17.96	0.062	34.77	-16.82	20.11	0.102	36.99	-16.88
		711.0	-4.80	1 / 26	24.90	17.95	0.062	34.77	-16.82	20.10	0.102	36.99	-16.89
	16-QAM	704.0	-4.80	1 / 1	23.83	16.88	0.049	34.77	-17.89	19.03	0.080	36.99	-17.96
	64-QAM	707.5	-4.80	1 / 50	22.41	15.46	0.035	34.77	-19.31	17.61	0.058	36.99	-19.38
	256-QAM	707.5	-4.80	1 / 50	20.65	13.70	0.023	34.77	-21.07	15.85	0.038	36.99	-21.14
15 MHz	$\pi/2$ BPSK	706.5	-4.80	1 / 1	24.98	18.03	0.063	34.77	-16.74	20.18	0.104	36.99	-16.81
		707.5	-4.80	1 / 77	24.91	17.96	0.063	34.77	-16.81	20.11	0.103	36.99	-16.88
		708.5	-4.80	1 / 1	24.98	18.03	0.063	34.77	-16.74	20.18	0.104	36.99	-16.81
	QPSK	706.5	-4.80	1 / 1	24.58	17.63	0.058	34.77	-17.14	19.78	0.095	36.99	-17.21
		707.5	-4.80	1 / 1	24.77	17.82	0.061	34.77	-16.95	19.97	0.099	36.99	-17.01
		708.5	-4.80	1 / 77	24.58	17.63	0.058	34.77	-17.14	19.78	0.095	36.99	-17.21
	16-QAM	707.5	-4.80	1 / 1	23.86	16.91	0.049	34.77	-17.86	19.06	0.081	36.99	-17.93
	64-QAM	708.5	-4.80	1 / 39	22.76	15.81	0.038	34.77	-18.96	17.96	0.062	36.99	-19.03
	256-QAM	706.5	-4.80	1 / 1	20.52	13.57	0.023	34.77	-21.20	15.72	0.037	36.99	-21.27

Table 7-23. Antenna 3b ERP/EIRP Data (NR Band n12)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 248 of 305

7.6.4 Antenna 3a – ERP/EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-0.60	1 / 5	24.46	23.86	0.243	30.00	-6.14
		1745.0	-0.60	1 / 0	24.56	23.96	0.249	30.00	-6.04
		1779.3	-0.60	1 / 0	24.32	23.72	0.236	30.00	-6.28
	16-QAM	1710.7	-0.60	1 / 3	23.75	23.15	0.206	30.00	-6.85
	64-QAM	1745.0	-0.60	1 / 5	22.98	22.38	0.173	30.00	-7.62
	256-QAM	1745.0	-0.60	1 / 0	19.57	18.97	0.079	30.00	-11.03
3 MHz	QPSK	1711.5	-0.60	1 / 0	24.47	23.87	0.244	30.00	-6.13
		1745.0	-0.60	1 / 0	24.55	23.95	0.248	30.00	-6.05
		1778.5	-0.60	1 / 14	24.16	23.56	0.227	30.00	-6.44
	16-QAM	1711.5	-0.60	1 / 14	23.80	23.20	0.209	30.00	-6.80
	64-QAM	1711.5	-0.60	1 / 14	22.81	22.21	0.166	30.00	-7.79
	256-QAM	1745.0	-0.60	1 / 0	19.84	19.24	0.084	30.00	-10.76
5 MHz	QPSK	1712.5	-0.60	1 / 24	24.41	23.81	0.240	30.00	-6.19
		1745.0	-0.60	1 / 0	24.49	23.89	0.245	30.00	-6.11
		1777.5	-0.60	1 / 12	24.40	23.80	0.240	30.00	-6.20
	16-QAM	1777.5	-0.60	1 / 24	23.86	23.26	0.212	30.00	-6.74
	64-QAM	1712.5	-0.60	1 / 12	22.88	22.28	0.169	30.00	-7.72
	256-QAM	1712.5	-0.60	1 / 24	19.85	19.25	0.084	30.00	-10.75
10 MHz	QPSK	1715.0	-0.60	1 / 0	24.54	23.94	0.248	30.00	-6.06
		1745.0	-0.60	1 / 25	24.58	23.98	0.250	30.00	-6.02
		1775.0	-0.60	1 / 0	24.39	23.79	0.239	30.00	-6.21
	16-QAM	1745.0	-0.60	1 / 0	23.90	23.30	0.214	30.00	-6.70
	64-QAM	1715.0	-0.60	1 / 25	22.91	22.31	0.170	30.00	-7.69
	256-QAM	1745.0	-0.60	1 / 25	19.79	19.19	0.083	30.00	-10.81
15 MHz	QPSK	1717.5	-0.60	1 / 0	24.39	23.79	0.239	30.00	-6.21
		1745.0	-0.60	1 / 74	24.54	23.94	0.248	30.00	-6.06
		1772.5	-0.60	1 / 0	24.48	23.88	0.244	30.00	-6.12
	16-QAM	1717.5	-0.60	1 / 74	23.96	23.36	0.217	30.00	-6.64
	64-QAM	1772.5	-0.60	1 / 37	22.89	22.29	0.169	30.00	-7.71
	256-QAM	1745.0	-0.60	1 / 0	19.80	19.20	0.083	30.00	-10.80
20 MHz	QPSK	1720.0	-0.60	1 / 99	24.54	23.94	0.248	30.00	-6.06
		1745.0	-0.60	1 / 0	24.49	23.89	0.245	30.00	-6.11
		1770.0	-0.60	1 / 0	24.46	23.86	0.243	30.00	-6.14
	16-QAM	1720.0	-0.60	1 / 50	23.99	23.39	0.218	30.00	-6.61
	64-QAM	1720.0	-0.60	1 / 99	22.92	22.32	0.171	30.00	-7.68
	256-QAM	1745.0	-0.60	1 / 99	20.02	19.42	0.088	30.00	-10.58

Table 7-24. Antenna 3a EIRP Data (LTE Band 66)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 249 of 305

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-0.60	1 / 3	24.55	23.95	0.248	30.00	-6.05
		1732.5	-0.60	1 / 3	24.34	23.74	0.237	30.00	-6.26
		1754.3	-0.60	1 / 3	24.55	23.95	0.248	30.00	-6.05
	16-QAM	1732.5	-0.60	1 / 3	23.76	23.16	0.207	30.00	-6.84
	64-QAM	1732.5	-0.60	1 / 3	23.20	22.60	0.182	30.00	-7.40
	256-QAM	1732.5	-0.60	1 / 3	19.89	19.29	0.085	30.00	-10.71
3 MHz	QPSK	1711.5	-0.60	1 / 14	24.57	23.97	0.249	30.00	-6.03
		1732.5	-0.60	1 / 14	24.41	23.81	0.240	30.00	-6.19
		1753.5	-0.60	1 / 14	24.27	23.67	0.233	30.00	-6.33
	16-QAM	1732.5	-0.60	1 / 7	23.89	23.29	0.213	30.00	-6.71
	64-QAM	1732.5	-0.60	1 / 14	23.31	22.71	0.187	30.00	-7.29
	256-QAM	1711.5	-0.60	1 / 7	19.87	19.27	0.085	30.00	-10.73
5 MHz	QPSK	1712.5	-0.60	1 / 12	24.45	23.85	0.243	30.00	-6.15
		1732.5	-0.60	1 / 24	24.43	23.83	0.242	30.00	-6.17
		1752.5	-0.60	1 / 12	24.44	23.84	0.242	30.00	-6.16
	16-QAM	1712.5	-0.60	1 / 12	23.88	23.28	0.213	30.00	-6.72
	64-QAM	1732.5	-0.60	1 / 12	23.21	22.61	0.182	30.00	-7.39
	256-QAM	1712.5	-0.60	1 / 12	19.95	19.35	0.086	30.00	-10.65
10 MHz	QPSK	1715.0	-0.60	1 / 49	24.64	24.04	0.254	30.00	-5.96
		1732.5	-0.60	1 / 0	24.35	23.75	0.237	30.00	-6.25
		1750.0	-0.60	1 / 49	24.28	23.68	0.233	30.00	-6.32
	16-QAM	1715.0	-0.60	1 / 0	23.74	23.14	0.206	30.00	-6.86
	64-QAM	1732.5	-0.60	1 / 49	23.30	22.70	0.186	30.00	-7.30
	256-QAM	1715.0	-0.60	1 / 49	19.85	19.25	0.084	30.00	-10.75
15 MHz	QPSK	1717.5	-0.60	1 / 0	24.58	23.98	0.250	30.00	-6.02
		1732.5	-0.60	1 / 0	24.44	23.84	0.242	30.00	-6.16
		1747.5	-0.60	1 / 0	24.36	23.76	0.238	30.00	-6.24
	16-QAM	1732.5	-0.60	1 / 0	23.97	23.37	0.217	30.00	-6.63
	64-QAM	1732.5	-0.60	1 / 0	23.33	22.73	0.187	30.00	-7.27
	256-QAM	1717.5	-0.60	1 / 0	19.82	19.22	0.084	30.00	-10.78
20 MHz	QPSK	1720.0	-0.60	1 / 0	24.61	24.01	0.252	30.00	-5.99
		1732.5	-0.60	1 / 0	24.56	23.96	0.249	30.00	-6.04
		1745.0	-0.60	1 / 0	24.46	23.86	0.243	30.00	-6.14
	16-QAM	1720.0	-0.60	1 / 0	23.63	23.03	0.201	30.00	-6.97
	64-QAM	1745.0	-0.60	1 / 0	23.17	22.57	0.181	30.00	-7.43
	256-QAM	1745.0	-0.60	1 / 0	20.08	19.48	0.089	30.00	-10.52

Table 7-25. Antenna 3a EIRP Data (LTE Band 4)

FCC ID: BCGA2589		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device		Page 250 of 305

NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	-0.60	1 / 24	24.64	24.04	0.254	30.00	-5.96
		1745.0	-0.60	1 / 0	24.52	23.92	0.247	30.00	-6.08
		1777.5	-0.60	1 / 0	24.54	23.94	0.248	30.00	-6.06
	QPSK	1712.5	-0.60	1 / 24	24.48	23.88	0.244	30.00	-6.12
		1745.0	-0.60	1 / 24	24.65	24.05	0.254	30.00	-5.95
		1777.5	-0.60	1 / 24	24.11	23.51	0.224	30.00	-6.49
	16-QAM	1745.0	-0.60	1 / 0	24.06	23.46	0.222	30.00	-6.54
	64-QAM	1712.5	-0.60	1 / 24	21.85	21.25	0.133	30.00	-8.75
	256-QAM	1745.0	-0.60	1 / 12	19.96	19.36	0.086	30.00	-10.64
10 MHz	$\pi/2$ BPSK	1715.0	-0.60	1 / 49	24.58	23.98	0.250	30.00	-6.02
		1745.0	-0.60	1 / 0	24.44	23.84	0.242	30.00	-6.16
		1775.0	-0.60	1 / 25	24.34	23.74	0.237	30.00	-6.26
	QPSK	1715.0	-0.60	1 / 25	24.52	23.92	0.247	30.00	-6.08
		1745.0	-0.60	1 / 0	24.70	24.10	0.257	30.00	-5.90
		1775.0	-0.60	1 / 49	24.34	23.74	0.237	30.00	-6.26
	16-QAM	1775.0	-0.60	1 / 49	23.90	23.30	0.214	30.00	-6.70
	64-QAM	1745.0	-0.60	1 / 49	22.09	21.49	0.141	30.00	-8.51
	256-QAM	1715.0	-0.60	1 / 0	19.93	19.33	0.086	30.00	-10.67
15 MHz	$\pi/2$ BPSK	1717.5	-0.60	1 / 37	24.69	24.09	0.257	30.00	-5.91
		1745.0	-0.60	1 / 74	24.70	24.10	0.257	30.00	-5.90
		1772.5	-0.60	1 / 74	24.46	23.86	0.243	30.00	-6.14
	QPSK	1717.5	-0.60	1 / 0	24.69	24.09	0.256	30.00	-5.91
		1745.0	-0.60	1 / 0	24.58	23.98	0.250	30.00	-6.02
		1772.5	-0.60	1 / 37	24.56	23.96	0.249	30.00	-6.04
	16-QAM	1717.5	-0.60	1 / 0	23.95	23.35	0.216	30.00	-6.65
	64-QAM	1745.0	-0.60	1 / 37	22.10	21.50	0.141	30.00	-8.50
	256-QAM	1772.5	-0.60	1 / 0	19.98	19.38	0.087	30.00	-10.62
20 MHz	$\pi/2$ BPSK	1720.0	-0.60	1 / 50	24.62	24.02	0.252	30.00	-5.98
		1745.0	-0.60	1 / 50	24.60	24.00	0.251	30.00	-6.00
		1770.0	-0.60	1 / 0	24.31	23.71	0.235	30.00	-6.29
	QPSK	1720.0	-0.60	1 / 99	24.70	24.10	0.257	30.00	-5.90
		1745.0	-0.60	1 / 0	24.56	23.96	0.249	30.00	-6.04
		1770.0	-0.60	1 / 0	24.57	23.97	0.249	30.00	-6.03
	16-QAM	1745.0	-0.60	1 / 0	24.07	23.47	0.222	30.00	-6.53
	64-QAM	1745.0	-0.60	1 / 99	21.98	21.38	0.137	30.00	-8.62
	256-QAM	1720.0	-0.60	1 / 0	20.05	19.45	0.088	30.00	-10.55
30 MHz	$\pi/2$ BPSK	1725.0	-0.60	1 / 0	24.40	23.80	0.240	30.00	-6.20
		1745.0	-0.60	1 / 0	24.59	23.99	0.250	30.00	-6.01
		1765.0	-0.60	1 / 0	24.19	23.59	0.228	30.00	-6.41
	QPSK	1725.0	-0.60	1 / 0	24.55	23.95	0.248	30.00	-6.05
		1745.0	-0.60	1 / 0	24.70	24.10	0.257	30.00	-5.90
		1765.0	-0.60	1 / 0	24.55	23.95	0.248	30.00	-6.05
	16-QAM	1765.0	-0.60	1 / 0	23.77	23.17	0.207	30.00	-6.83
	64-QAM	1725.0	-0.60	1 / 0	21.88	21.28	0.134	30.00	-8.72
	256-QAM	1745.0	-0.60	1 / 99	20.24	19.64	0.092	30.00	-10.36
40 MHz	$\pi/2$ BPSK	1730.0	-0.60	1 / 0	24.59	23.99	0.251	30.00	-6.01
		1745.0	-0.60	1 / 50	24.39	23.79	0.239	30.00	-6.21
		1760.0	-0.60	1 / 0	24.70	24.10	0.257	30.00	-5.90
	QPSK	1730.0	-0.60	1 / 50	24.48	23.88	0.244	30.00	-6.12
		1745.0	-0.60	1 / 0	24.17	23.57	0.228	30.00	-6.43
		1760.0	-0.60	1 / 99	24.46	23.86	0.243	30.00	-6.14
	16-QAM	1745.0	-0.60	1 / 50	23.84	23.24	0.211	30.00	-6.76
	64-QAM	1745.0	-0.60	1 / 99	21.89	21.29	0.135	30.00	-8.71
	256-QAM	1745.0	-0.60	1 / 50	19.63	19.03	0.080	30.00	-10.97

Table 7-26. Antenna 3a EIRP Data (NR Band n66)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device		Page 251 of 305

Uplink CA LTE Band 66B/C

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B66	20MHz + 20MHz		132072	1720.0	1	99		132270	1739.8	1	0	24.52	-0.60	23.92	0.247	40.61	-16.69
				132322	1745.0	1	99		132520	1764.8	1	0	24.44	-0.60	23.84	0.242	40.61	-16.77
				132572	1770.0	1	0		132374	1750.2	1	99	24.61	-0.60	24.01	0.252	40.61	-16.60
			QPSK	132572	1770	100	0	QPSK	132374	1750.2	100	0	22.77	-0.60	22.17	0.165	40.61	-18.44
			16-QAM	132572	1770	100	0	16-QAM	132374	1750.2	100	0	21.74	-0.60	21.14	0.130	40.61	-19.47
			64-QAM	132572	1770	100	0	64-QAM	132374	1750.2	100	0	21.62	-0.60	21.22	0.132	40.61	-19.39
			256-QAM	132572	1770	100	0	256-QAM	132374	1750.2	100	0	19.79	-0.60	19.19	0.083	40.61	-21.42

Table 7-27. Antenna 3a EIRP Data (ULCA LTE Band 66)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	24.63	-0.60	24.03	0.253	30.00	-5.97
1732.60	WCDMA1700	24.57	-0.60	23.97	0.249	30.00	-6.03
1752.60	WCDMA1700	24.60	-0.60	24.00	0.251	30.00	-6.00

Table 7-28. Antenna 3a EIRP Data (WCDMA AWS)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 252 of 305

7.6.5 Antenna 1a – ERP/EIRP

LTE Band 66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-0.20	1 / 3	22.98	22.78	0.190	30.00	-7.22
		1745.0	-0.20	1 / 3	23.08	22.88	0.194	30.00	-7.12
		1779.3	-0.20	1 / 3	23.29	23.09	0.204	30.00	-6.91
	16-QAM	1710.7	-0.20	1 / 3	22.24	22.04	0.160	30.00	-7.96
	64-QAM	1779.3	-0.20	1 / 3	21.66	21.46	0.140	30.00	-8.54
	256-QAM	1745.0	-0.20	1 / 3	18.67	18.47	0.070	30.00	-11.53
3 MHz	QPSK	1711.5	-0.20	1 / 0	23.02	22.82	0.191	30.00	-7.18
		1745.0	-0.20	1 / 14	23.12	22.92	0.196	30.00	-7.08
		1778.5	-0.20	1 / 0	23.10	22.90	0.195	30.00	-7.10
	16-QAM	1778.5	-0.20	1 / 7	22.45	22.25	0.168	30.00	-7.75
	64-QAM	1778.5	-0.20	1 / 0	21.82	21.62	0.145	30.00	-8.38
	256-QAM	1778.5	-0.20	1 / 0	18.74	18.54	0.071	30.00	-11.46
5 MHz	QPSK	1712.5	-0.20	1 / 12	23.14	22.94	0.197	30.00	-7.06
		1745.0	-0.20	1 / 12	23.17	22.97	0.198	30.00	-7.03
		1777.5	-0.20	1 / 0	22.99	22.79	0.190	30.00	-7.21
	16-QAM	1745.0	-0.20	1 / 12	22.55	22.35	0.172	30.00	-7.65
	64-QAM	1712.5	-0.20	1 / 12	21.54	21.34	0.136	30.00	-8.66
	256-QAM	1745.0	-0.20	1 / 12	18.65	18.45	0.070	30.00	-11.55
10 MHz	QPSK	1715.0	-0.20	1 / 0	23.10	22.90	0.195	30.00	-7.10
		1745.0	-0.20	1 / 25	23.13	22.93	0.196	30.00	-7.07
		1775.0	-0.20	1 / 0	23.13	22.93	0.196	30.00	-7.07
	16-QAM	1775.0	-0.20	1 / 0	22.52	22.32	0.171	30.00	-7.68
	64-QAM	1775.0	-0.20	1 / 0	21.80	21.60	0.145	30.00	-8.40
	256-QAM	1745.0	-0.20	1 / 25	18.73	18.53	0.071	30.00	-11.47
15 MHz	QPSK	1717.5	-0.20	1 / 37	23.22	23.02	0.200	30.00	-6.98
		1745.0	-0.20	1 / 37	23.17	22.97	0.198	30.00	-7.03
		1772.5	-0.20	1 / 37	23.11	22.91	0.195	30.00	-7.09
	16-QAM	1772.5	-0.20	1 / 37	22.53	22.33	0.171	30.00	-7.67
	64-QAM	1772.5	-0.20	1 / 37	21.79	21.59	0.144	30.00	-8.41
	256-QAM	1772.5	-0.20	1 / 37	18.80	18.60	0.072	30.00	-11.40
20 MHz	QPSK	1720.0	-0.20	1 / 0	22.94	22.74	0.188	30.00	-7.26
		1745.0	-0.20	1 / 50	23.27	23.07	0.203	30.00	-6.93
		1770.0	-0.20	1 / 50	23.21	23.01	0.200	30.00	-6.99
	16-QAM	1745.0	-0.20	1 / 0	22.47	22.27	0.169	30.00	-7.73
	64-QAM	1720.0	-0.20	1 / 0	21.88	21.68	0.147	30.00	-8.32
	256-QAM	1745.0	-0.20	1 / 50	18.66	18.46	0.070	30.00	-11.54

Table 7-29. Antenna 1a EIRP Data (LTE Band 66)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 253 of 305

LTE Band 4

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	1710.7	-0.20	1 / 3	22.89	22.69	0.186	30.00	-7.31
		1732.5	-0.20	1 / 3	23.05	22.85	0.193	30.00	-7.15
		1754.3	-0.20	1 / 3	23.23	23.03	0.201	30.00	-6.97
	16-QAM	1710.7	-0.20	1 / 3	22.18	21.98	0.158	30.00	-8.02
	64-QAM	1754.3	-0.20	1 / 3	21.63	21.43	0.139	30.00	-8.57
	256-QAM	1732.5	-0.20	1 / 3	18.59	18.39	0.069	30.00	-11.61
3 MHz	QPSK	1711.5	-0.20	1 / 14	22.98	22.78	0.190	30.00	-7.22
		1732.5	-0.20	1 / 14	23.11	22.91	0.195	30.00	-7.09
		1753.5	-0.20	1 / 14	23.01	22.81	0.191	30.00	-7.19
	16-QAM	1753.5	-0.20	1 / 7	22.43	22.23	0.167	30.00	-7.77
	64-QAM	1753.5	-0.20	1 / 14	21.77	21.57	0.144	30.00	-8.43
	256-QAM	1753.5	-0.20	1 / 7	18.70	18.50	0.071	30.00	-11.50
5 MHz	QPSK	1712.5	-0.20	1 / 12	23.09	22.89	0.195	30.00	-7.11
		1732.5	-0.20	1 / 12	23.22	23.02	0.200	30.00	-6.98
		1752.5	-0.20	1 / 24	23.02	22.82	0.191	30.00	-7.18
	16-QAM	1732.5	-0.20	1 / 12	22.49	22.29	0.169	30.00	-7.71
	64-QAM	1712.5	-0.20	1 / 24	21.46	21.26	0.134	30.00	-8.74
	256-QAM	1752.5	-0.20	1 / 12	18.56	18.36	0.069	30.00	-11.64
10 MHz	QPSK	1715.0	-0.20	1 / 49	23.02	22.82	0.191	30.00	-7.18
		1732.5	-0.20	1 / 49	23.04	22.84	0.192	30.00	-7.16
		1750.0	-0.20	1 / 49	23.04	22.84	0.192	30.00	-7.16
	16-QAM	1750.0	-0.20	1 / 0	22.54	22.34	0.171	30.00	-7.66
	64-QAM	1750.0	-0.20	1 / 49	21.68	21.48	0.141	30.00	-8.52
	256-QAM	1750.0	-0.20	1 / 49	18.63	18.43	0.070	30.00	-11.57
15 MHz	QPSK	1717.5	-0.20	1 / 0	23.12	22.92	0.196	30.00	-7.08
		1732.5	-0.20	1 / 0	23.12	22.92	0.196	30.00	-7.08
		1747.5	-0.20	1 / 0	22.99	22.79	0.190	30.00	-7.21
	16-QAM	1747.5	-0.20	1 / 0	22.34	22.14	0.164	30.00	-7.86
	64-QAM	1747.5	-0.20	1 / 0	21.69	21.49	0.141	30.00	-8.51
	256-QAM	1747.5	-0.20	1 / 0	18.68	18.48	0.070	30.00	-11.52
20 MHz	QPSK	1720.0	-0.20	1 / 99	23.08	22.88	0.194	30.00	-7.12
		1732.5	-0.20	1 / 0	22.93	22.73	0.187	30.00	-7.27
		1745.0	-0.20	1 / 0	23.15	22.95	0.197	30.00	-7.05
	16-QAM	1745.0	-0.20	1 / 0	22.39	22.19	0.166	30.00	-7.81
	64-QAM	1732.5	-0.20	1 / 99	21.79	21.59	0.144	30.00	-8.41
	256-QAM	1732.5	-0.20	1 / 0	18.57	18.37	0.069	30.00	-11.63

Table 7-30. Antenna 1a EIRP Data (LTE Band 4)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 254 of 305

NR Band n66

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	1712.5	-0.20	1 / 0	23.34	23.14	0.206	30.00	-6.86
		1745.0	-0.20	1 / 24	23.39	23.19	0.209	30.00	-6.81
		1777.5	-0.20	1 / 12	23.14	22.94	0.197	30.00	-7.06
	QPSK	1712.5	-0.20	1 / 12	22.96	22.76	0.189	30.00	-7.24
		1745.0	-0.20	1 / 0	23.02	22.82	0.191	30.00	-7.18
		1777.5	-0.20	1 / 24	22.93	22.73	0.188	30.00	-7.27
	16-QAM	1712.5	-0.20	1 / 0	22.18	21.98	0.158	30.00	-8.02
	64-QAM	1777.5	-0.20	1 / 24	21.05	20.85	0.122	30.00	-9.15
10 MHz	$\pi/2$ BPSK	1745.0	-0.20	1 / 24	19.04	18.84	0.077	30.00	-11.16
		1715.0	-0.20	1 / 0	23.26	23.06	0.202	30.00	-6.94
		1745.0	-0.20	1 / 49	23.40	23.20	0.209	30.00	-6.80
	QPSK	1775.0	-0.20	1 / 0	23.18	22.98	0.199	30.00	-7.02
		1715.0	-0.20	1 / 0	23.36	23.16	0.207	30.00	-6.84
		1745.0	-0.20	1 / 0	23.22	23.02	0.201	30.00	-6.98
	16-QAM	1775.0	-0.20	1 / 49	22.87	22.67	0.185	30.00	-7.33
	64-QAM	1775.0	-0.20	1 / 25	22.34	22.14	0.164	30.00	-7.86
15 MHz	$\pi/2$ BPSK	1715.0	-0.20	1 / 0	20.90	20.70	0.118	30.00	-9.30
		1715.0	-0.20	1 / 0	20.90	20.70	0.118	30.00	-9.30
		1715.0	-0.20	1 / 25	18.31	18.11	0.065	30.00	-11.89
	QPSK	1717.5	-0.20	1 / 0	23.21	23.01	0.200	30.00	-6.99
		1745.0	-0.20	1 / 0	23.13	22.93	0.196	30.00	-7.07
		1772.5	-0.20	1 / 0	23.40	23.20	0.209	30.00	-6.80
	16-QAM	1717.5	-0.20	1 / 74	23.39	23.19	0.208	30.00	-6.81
		1745.0	-0.20	1 / 74	23.11	22.91	0.195	30.00	-7.09
20 MHz	$\pi/2$ BPSK	1772.5	-0.20	1 / 37	22.90	22.70	0.186	30.00	-7.30
		1717.5	-0.20	1 / 74	22.26	22.06	0.161	30.00	-7.94
		1717.5	-0.20	1 / 37	20.89	20.69	0.117	30.00	-9.31
	QPSK	1745.0	-0.20	1 / 74	18.74	18.54	0.071	30.00	-11.46
		1720.0	-0.20	1 / 99	23.23	23.03	0.201	30.00	-6.97
		1745.0	-0.20	1 / 99	23.25	23.05	0.202	30.00	-6.95
	16-QAM	1770.0	-0.20	1 / 99	23.19	22.99	0.199	30.00	-7.01
		1720.0	-0.20	1 / 50	23.09	22.89	0.194	30.00	-7.11
30 MHz	$\pi/2$ BPSK	1745.0	-0.20	1 / 50	23.04	22.84	0.192	30.00	-7.16
		1770.0	-0.20	1 / 0	22.79	22.59	0.181	30.00	-7.41
		1770.0	-0.20	1 / 0	22.30	22.10	0.162	30.00	-7.90
	QPSK	1720.0	-0.20	1 / 0	21.07	20.87	0.122	30.00	-9.13
		1720.0	-0.20	1 / 0	19.06	18.86	0.077	30.00	-11.14
		1725.0	-0.20	1 / 99	23.40	23.20	0.209	30.00	-6.80
	16-QAM	1745.0	-0.20	1 / 99	23.32	23.12	0.205	30.00	-6.88
		1765.0	-0.20	1 / 50	23.27	23.07	0.203	30.00	-6.93
40 MHz	$\pi/2$ BPSK	1725.0	-0.20	1 / 99	23.34	23.14	0.206	30.00	-6.86
		1745.0	-0.20	1 / 0	23.37	23.17	0.208	30.00	-6.83
		1765.0	-0.20	1 / 99	23.26	23.06	0.202	30.00	-6.94
	QPSK	1745.0	-0.20	1 / 50	22.55	22.35	0.172	30.00	-7.65
		1745.0	-0.20	1 / 0	21.04	20.84	0.121	30.00	-9.16
		1745.0	-0.20	1 / 50	18.83	18.63	0.073	30.00	-11.37
	16-QAM	1730.0	-0.20	1 / 99	23.31	23.11	0.205	30.00	-6.89
		1745.0	-0.20	1 / 99	23.21	23.01	0.200	30.00	-6.99
5 MHz	$\pi/2$ BPSK	1760.0	-0.20	1 / 0	23.40	23.20	0.209	30.00	-6.80
		1730.0	-0.20	1 / 50	23.16	22.96	0.198	30.00	-7.04
		1745.0	-0.20	1 / 50	23.19	22.99	0.199	30.00	-7.01
	QPSK	1760.0	-0.20	1 / 99	23.10	22.90	0.195	30.00	-7.10
		1745.0	-0.20	1 / 0	22.65	22.45	0.176	30.00	-7.55
		1745.0	-0.20	1 / 50	21.25	21.05	0.127	30.00	-8.95
	16-QAM	1760.0	-0.20	1 / 50	18.90	18.70	0.074	30.00	-11.30
		1760.0	-0.20	1 / 50	18.90	18.70	0.074	30.00	-11.30

Table 7-31. Antenna 1a EIRP Data (NR Band n66)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device		Page 255 of 305

Uplink CA LTE Band 66B/C

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset						
Max	LTE B66	20MHz + 20MHz	QPSK	132072	1720.0	1	99	QPSK	132270	1739.8	1	0	23.23	-0.20	23.03	0.201	40.61	-17.58
				132322	1745.0	1	99		132520	1764.8	1	0	23.38	-0.20	23.18	0.208	40.61	-17.43
				132572	1770.0	1	0		132374	1750.2	1	99	23.26	-0.20	23.06	0.202	40.61	-17.55
			QPSK	132322	1745	100	0	QPSK	132520	1764.8	100	0	21.52	-0.20	21.32	0.136	40.61	-19.29
			16-QAM	132322	1745	100	0	16-QAM	132520	1764.8	100	0	20.49	-0.20	20.29	0.107	40.61	-20.32
			64-QAM	132322	1745	100	0	64-QAM	132520	1764.8	100	0	20.54	-0.20	20.34	0.108	40.61	-20.27
			256-QAM	132322	1745	100	0	256-QAM	132520	1764.8	100	0	18.50	-0.20	18.30	0.068	40.61	-22.31

Table 7-32. Antenna 1a EIRP Data (ULCA LTE Band 66)

WCDMA AWS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	23.07	-0.20	22.87	0.194	30.00	-7.13
1732.60	WCDMA1700	23.10	-0.20	22.90	0.195	30.00	-7.10
1752.60	WCDMA1700	23.03	-0.20	22.83	0.192	30.00	-7.17

Table 7-33. Antenna 1a EIRP Data (WCDMA AWS)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 256 of 305

7.7 Radiated Spurious Emissions

§2.1053, §27.53(f)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26 2015, TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device
		Page 257 of 305

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

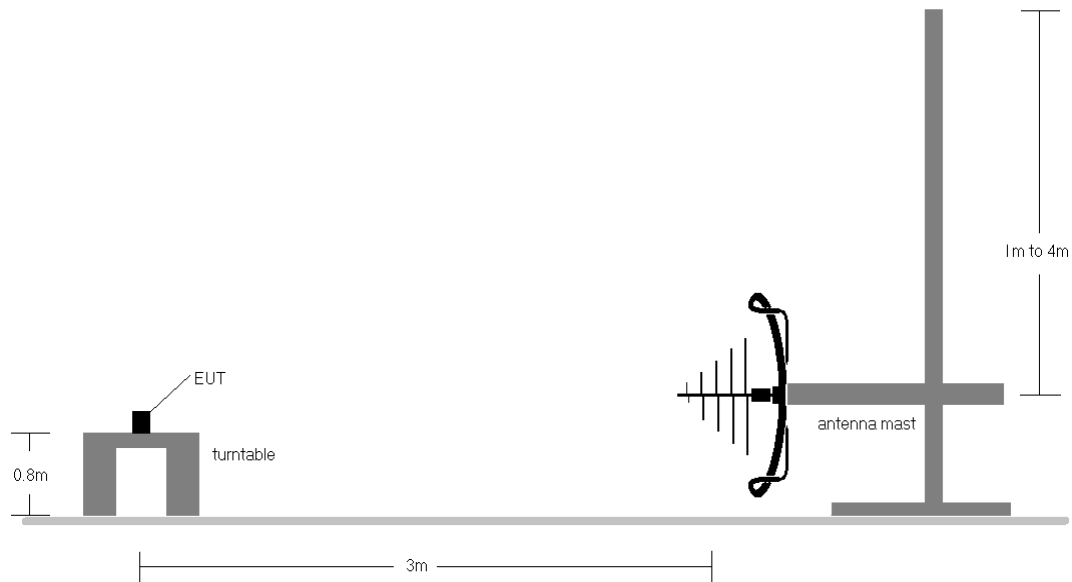


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

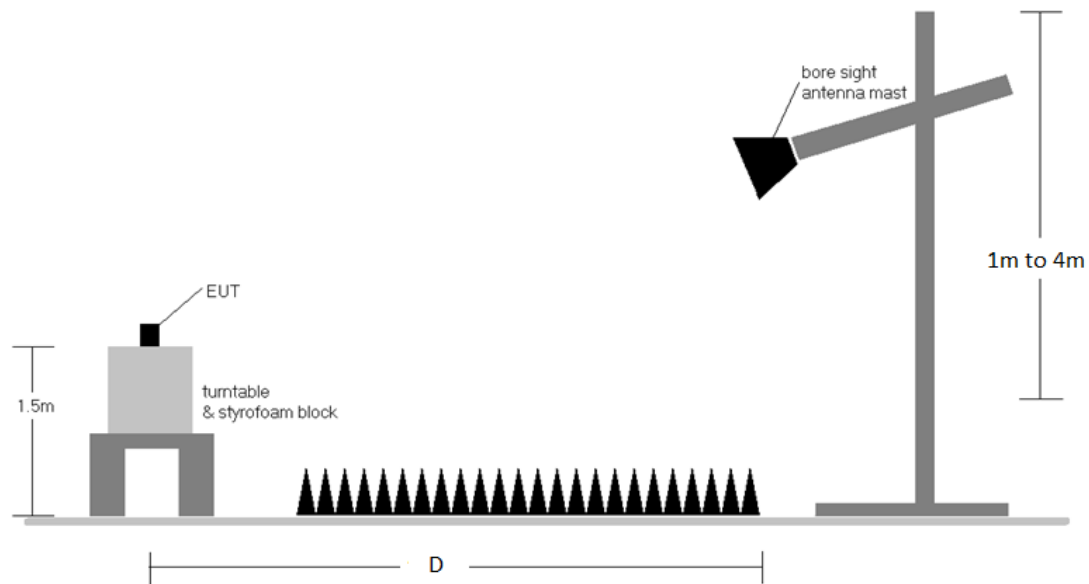


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 258 of 305

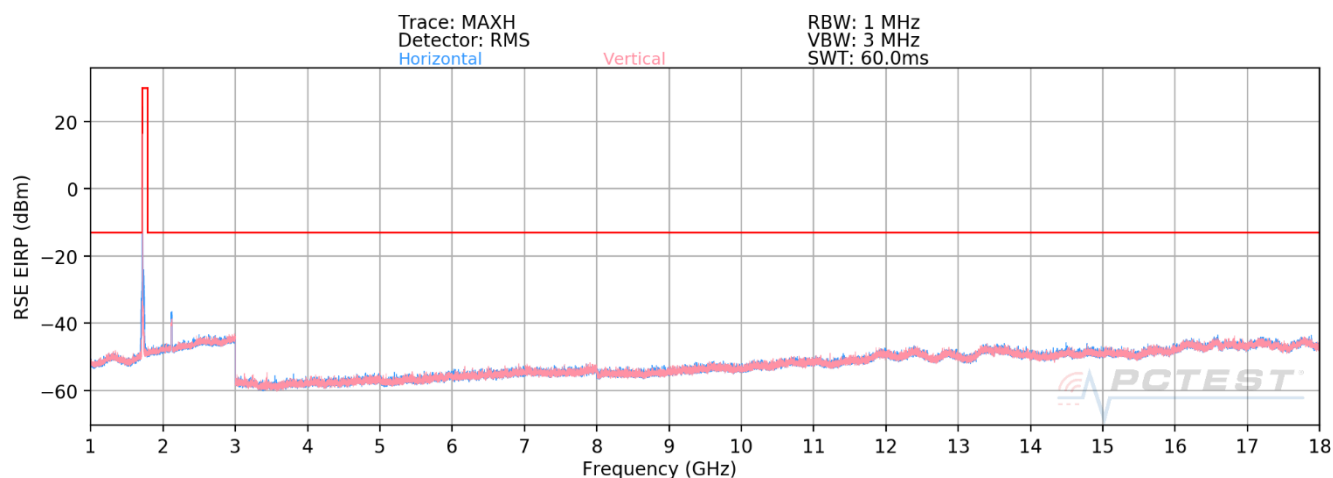
Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
3. This unit was tested with its standard battery.
4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
9. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.
10. Uplink carrier aggregation radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) powers were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
11. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device
		Page 259 of 305

7.7.1 Antenna 4 – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-409. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 66/4)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 260 of 305

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	347	192	-76.31	4.30	34.99	-60.27	-13.00	-47.27
5160.0	V	-	-	-81.63	6.23	31.60	-63.66	-13.00	-50.66
6880.0	V	-	-	-83.12	9.82	33.70	-61.56	-13.00	-48.56
8600.0	V	-	-	-85.08	11.38	33.30	-61.96	-13.00	-48.96
10320.0	V	-	-	-84.80	13.79	35.99	-59.27	-13.00	-46.27

Table 7-34. Antenna 4 Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	355	195	-77.37	4.14	33.77	-61.48	-13.00	-48.48
5235.0	V	307	186	-80.95	6.74	32.79	-62.47	-13.00	-49.47
6980.0	V	-	-	-82.89	9.56	33.67	-61.58	-13.00	-48.58
8725.0	V	-	-	-84.70	11.13	33.43	-61.83	-13.00	-48.83
10470.0	V	-	-	-85.05	13.68	35.63	-59.63	-13.00	-46.63

Table 7-35. Antenna 4 Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

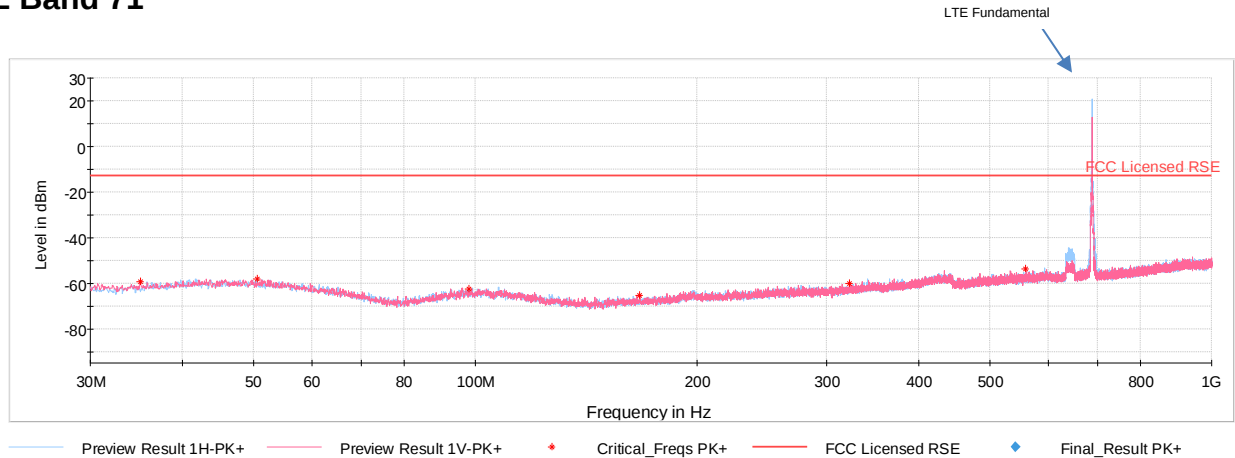
Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	351	192	-78.21	4.28	33.07	-62.19	-13.00	-49.19
5310.0	V	229	171	-80.87	7.57	33.70	-61.56	-13.00	-48.56
7080.0	V	-	-	-83.23	10.15	33.92	-61.34	-13.00	-48.34
8850.0	V	-	-	-84.65	11.40	33.75	-61.51	-13.00	-48.51
10620.0	V	-	-	-84.86	14.17	36.31	-58.95	-13.00	-45.95

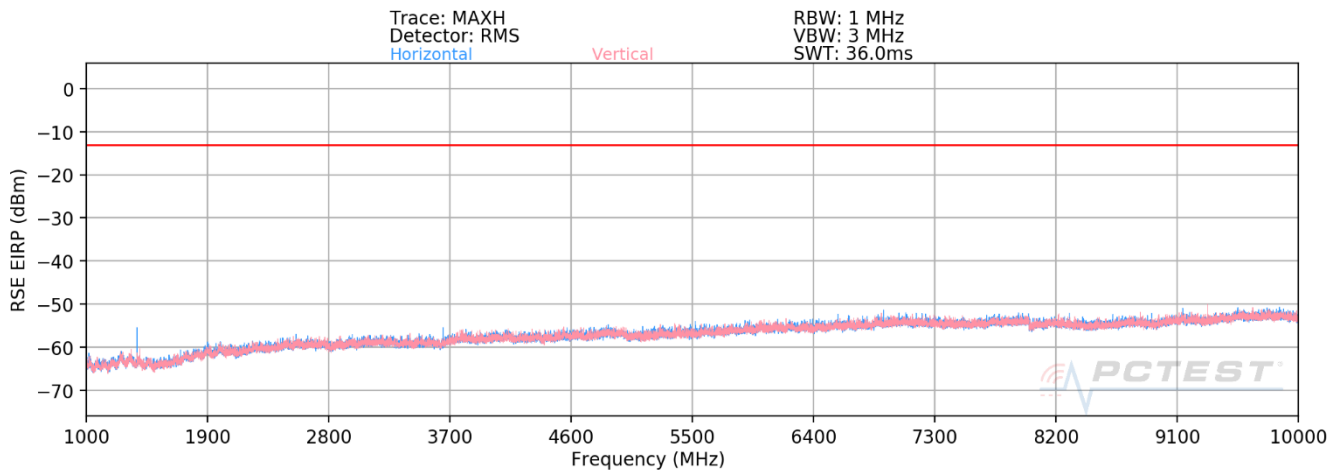
Table 7-36. Antenna 4 Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 261 of 305

LTE Band 71



Plot 7-410. Antenna 4 Radiated Spurious Emission below 18GHz (LTE Band 71)



Plot 7-411. Antenna 4 Radiated Spurious Emission above 18GHz (LTE Band 71)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 262 of 305

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	115	98	-71.55	-2.60	32.85	-62.41	-13.00	-49.41
2019.0	H	-	-	-79.02	0.59	28.57	-66.69	-13.00	-53.69
2692.0	H	-	-	-79.56	2.44	29.88	-65.37	-13.00	-52.37
3365.0	H	-	-	-80.57	3.23	29.66	-65.59	-13.00	-52.59

Table 7-37. Antenna 4 Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	164	140	-72.59	-2.89	31.52	-63.74	-13.00	-50.74
2041.5	H	-	-	-78.97	0.87	28.90	-66.36	-13.00	-53.36
2722.0	H	-	-	-80.22	2.84	29.62	-65.64	-13.00	-52.64
3402.5	H	-	-	-80.57	3.36	29.79	-65.47	-13.00	-52.47

Table 7-38. Antenna 4 Radiated Spurious Data (LTE Band 71 – Mid Channel)

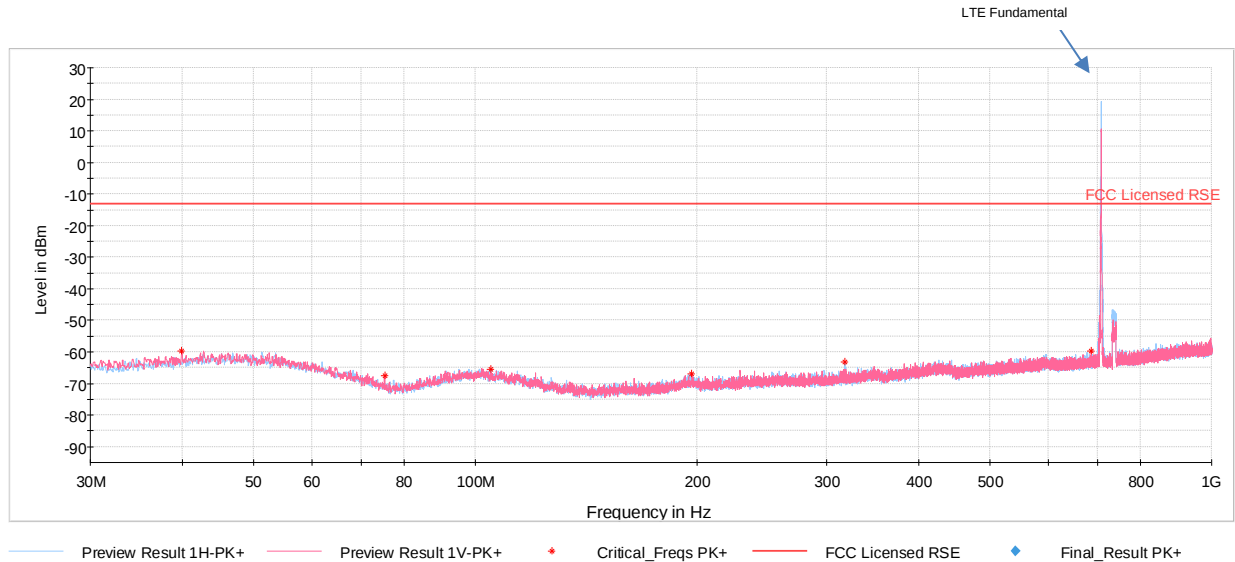
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	164	293	-68.38	-3.09	35.53	-59.73	-13.00	-46.73
2064.0	H	-	-	-78.93	0.14	28.21	-67.05	-13.00	-54.05
2752.0	H	-	-	-79.94	2.64	29.70	-65.55	-13.00	-52.55
3440.0	H	-	-	-80.66	3.24	29.58	-65.68	-13.00	-52.68

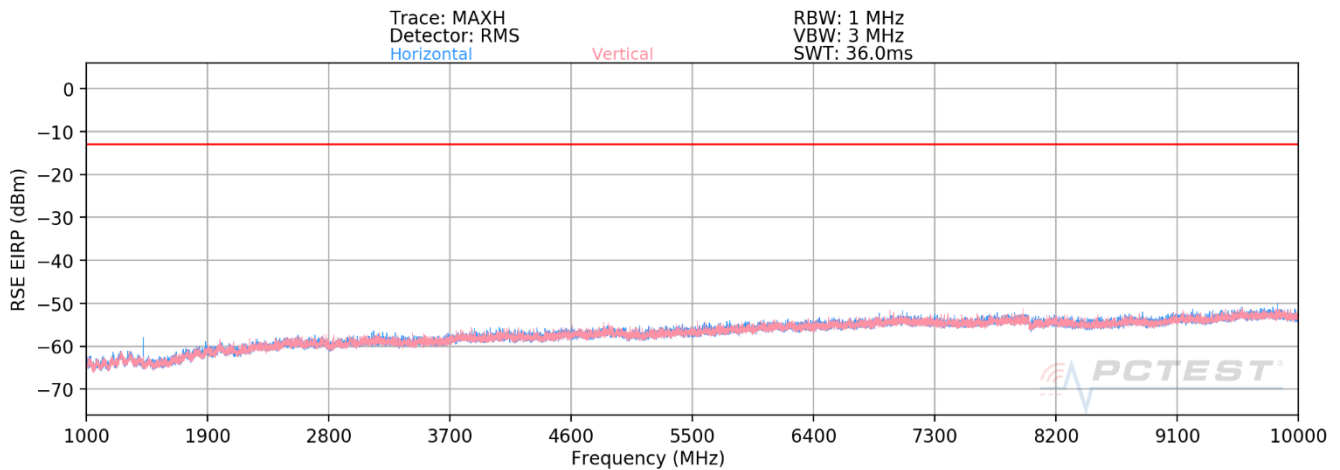
Table 7-39. Antenna 4 Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 263 of 305

LTE Band 12/17



Plot 7-412. Antenna 4 Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-413. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 12/17)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 264 of 305

Bandwidth (MHz):	10
Frequency (MHz):	704.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	H	131	293	-71.62	-3.41	31.97	-63.28	-13.00	-50.28
2112.0	H	-	-	-78.91	0.14	28.23	-67.03	-13.00	-54.03
2816.0	H	-	-	-79.99	1.85	28.86	-66.40	-13.00	-53.40
3520.0	H	-	-	-80.84	3.80	29.96	-65.30	-13.00	-52.30

Table 7-40. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	119	296	-71.66	-3.40	31.94	-63.32	-13.00	-50.32
2122.5	H	-	-	-79.17	0.19	28.02	-67.24	-13.00	-54.24
2830.0	H	-	-	-80.02	1.95	28.93	-66.32	-13.00	-53.32
3537.5	H	-	-	-80.83	3.93	30.10	-65.15	-13.00	-52.15

Table 7-41. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

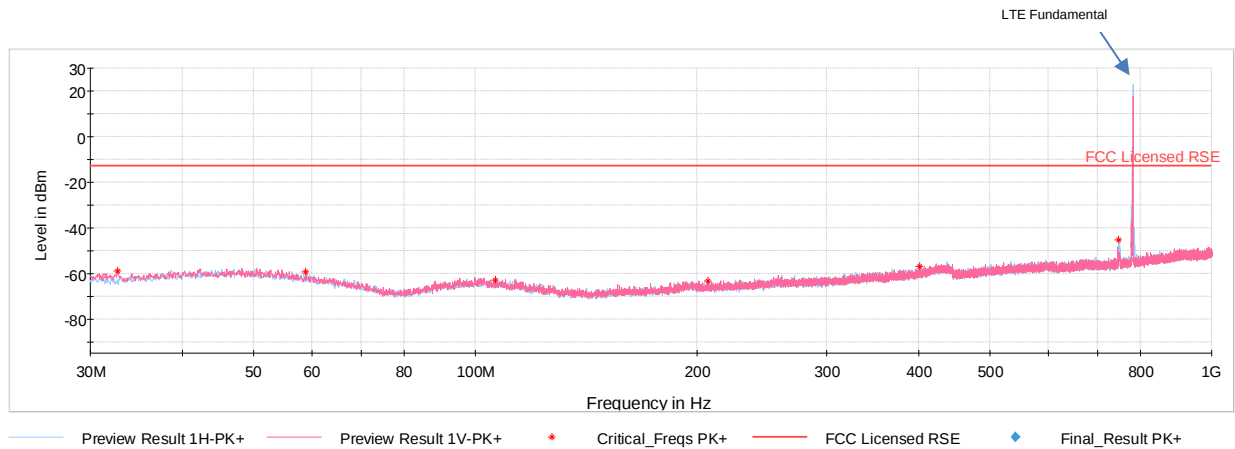
Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	106	293	-70.71	-3.44	32.85	-62.41	-13.00	-49.41
2133.0	H	-	-	-79.13	0.21	28.08	-67.17	-13.00	-54.17
2844.0	H	-	-	-80.06	2.19	29.13	-66.12	-13.00	-53.12
3555.0	H	-	-	-80.81	3.77	29.96	-65.30	-13.00	-52.30

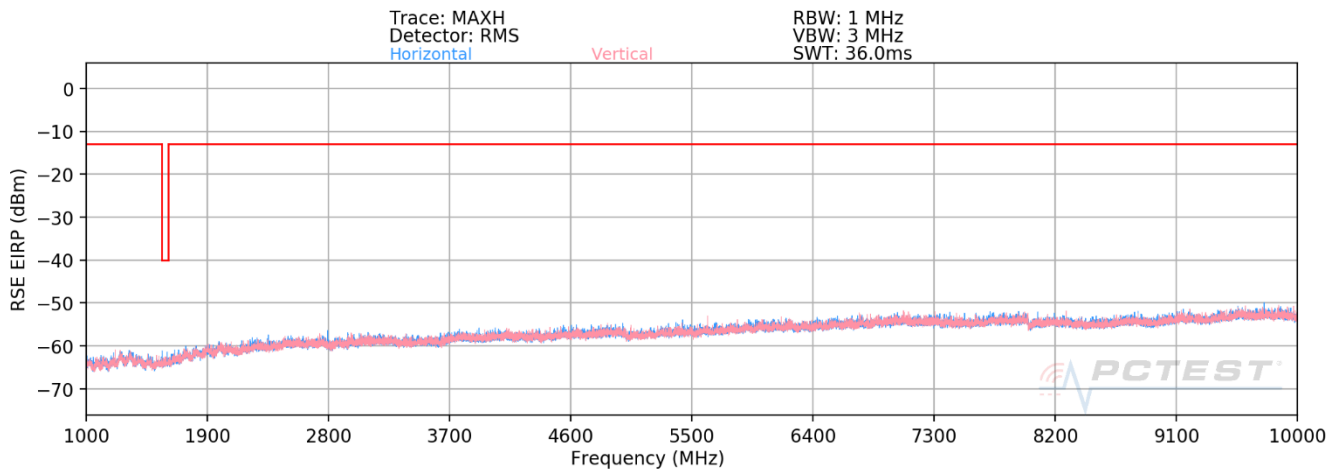
Table 7-42. Antenna 4 Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 265 of 305

LTE Band 13



Plot 7-414. Antenna 4 Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-415. Antenna 4 Radiated Spurious Emission above 1GHz (LTE Band 13)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device
		Page 266 of 305

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1/12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	H	209	290	-76.33	-3.05	27.62	-67.64	-40.00	-27.64
2338.5	H	-	-	-79.59	1.47	28.88	-66.38	-13.00	-53.38
3118.0	H	-	-	-80.38	3.33	29.95	-65.31	-13.00	-52.31
3897.5	H	-	-	-80.91	4.56	30.65	-64.61	-13.00	-51.61

Table 7-43. Antenna 4 Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	782.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.0	H	273	281	-77.12	-3.05	26.83	-68.43	-40.00	-28.43
2346.0	H	-	-	-79.49	1.47	28.98	-66.28	-13.00	-53.28
3128.0	H	-	-	-80.45	3.33	29.88	-65.38	-13.00	-52.38
3910.0	H	-	-	-80.88	4.56	30.68	-64.58	-13.00	-51.58

Table 7-44. Antenna 4 Radiated Spurious Data (LTE Band 13 – Mid Channel)

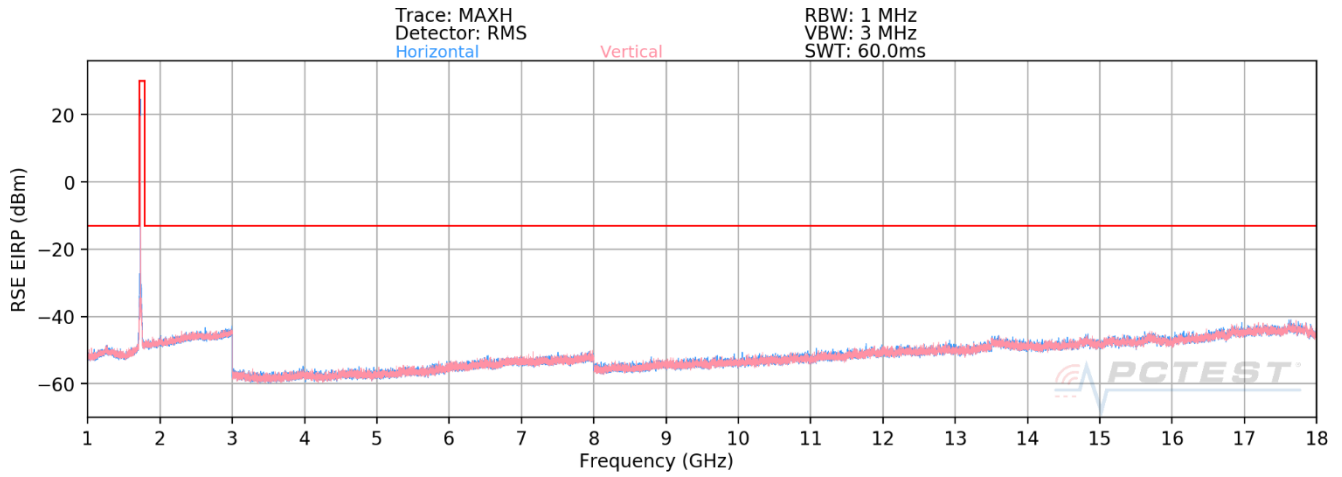
Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1/12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	H	148	290	-77.39	-3.05	26.56	-68.70	-40.00	-28.70
2353.5	H	-	-	-79.44	1.47	29.03	-66.23	-13.00	-53.23
3138.0	H	-	-	-80.41	3.33	29.92	-65.34	-13.00	-52.34
3922.5	H	-	-	-80.84	4.56	30.72	-64.54	-13.00	-51.54

Table 7-45. Antenna 4 Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 267 of 305

NR Band n66



Plot 7-416. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n66)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 268 of 305

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	V	354	226	-76.39	4.87	35.48	-59.78	-13.00	-46.78
5190.0	V	-	-	-81.24	7.17	32.93	-62.33	-13.00	-49.33
6920.0	V	-	-	-81.78	10.20	35.42	-59.84	-13.00	-46.84
8650.0	V	-	-	-83.15	11.73	35.58	-59.68	-13.00	-46.68

Table 7-46. Antenna 4 Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	295	224	-78.26	5.08	33.82	-61.44	-13.00	-48.44
5235.0	V	-	-	-80.89	7.07	33.18	-62.08	-13.00	-49.08
6980.0	V	-	-	-80.97	9.72	35.75	-59.50	-13.00	-46.50
8725.0	V	-	-	-83.06	11.47	35.41	-59.85	-13.00	-46.85

Table 7-47. Antenna 4 Radiated Spurious Data (NR Band n66 – Mid Channel)

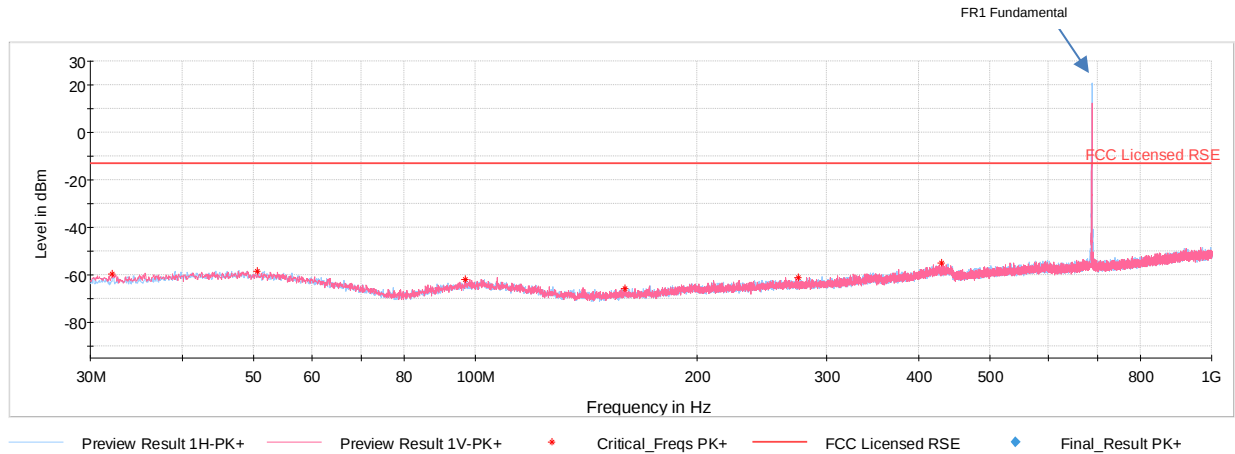
Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	V	337	226	-78.45	5.21	33.76	-61.50	-13.00	-48.50
5280.0	V	309	222	-78.72	7.12	35.40	-59.85	-13.00	-46.85
7040.0	V	-	-	-81.56	10.09	35.53	-59.73	-13.00	-46.73
8800.0	V	-	-	-83.13	12.03	35.90	-59.35	-13.00	-46.35
10560.0	V	-	-	-83.81	14.26	37.45	-57.81	-13.00	-44.81

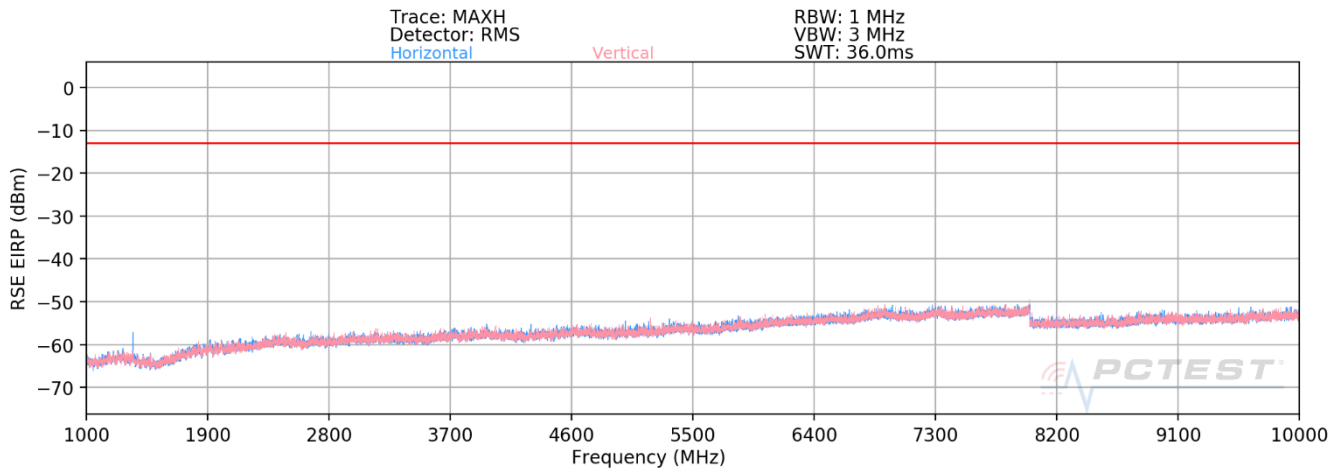
Table 7-48. Antenna 4 Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 269 of 305

NR Band n71



Plot 7-417. Antenna 4 Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-418. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n71)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device
		Page 270 of 305

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	132	175	-70.48	-2.24	34.28	-60.98	-13.00	-47.98
2019.0	H	-	-	-78.36	0.55	29.19	-66.07	-13.00	-53.07
2692.0	H	-	-	-79.39	2.96	30.57	-64.69	-13.00	-51.69
3365.0	H	-	-	-79.94	4.42	31.48	-63.78	-13.00	-50.78

Table 7-49. Antenna 4 Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	108	333	-74.45	-2.49	30.06	-65.20	-13.00	-52.20
2041.5	H	-	-	-78.65	0.54	28.89	-66.37	-13.00	-53.37
2722.0	H	-	-	-79.31	3.17	30.86	-64.40	-13.00	-51.40
3402.5	H	-	-	-79.60	4.12	31.52	-63.73	-13.00	-50.73

Table 7-50. Antenna 4 Radiated Spurious Data (NR Band n71 – Mid Channel)

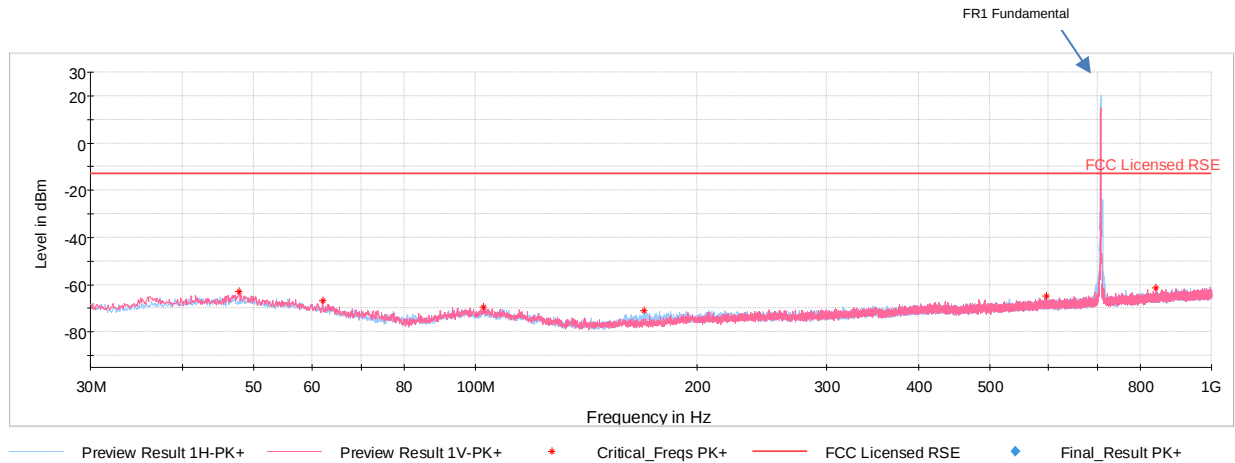
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	311	340	-72.21	-2.59	32.20	-63.06	-13.00	-50.06
2064.0	H	-	-	-78.77	0.86	29.09	-66.16	-13.00	-53.16
2752.0	H	-	-	-79.36	3.12	30.76	-64.50	-13.00	-51.50
3440.0	H	-	-	-79.62	4.01	31.39	-63.87	-13.00	-50.87

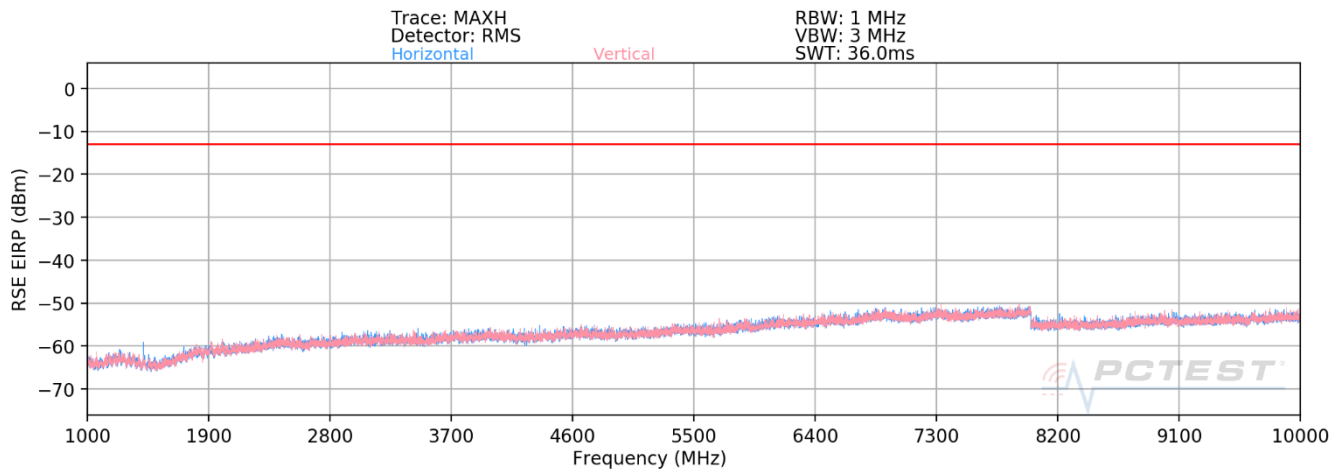
Table 7-51. Antenna 4 Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 271 of 305

NR Band n12



Plot 7-419. Antenna 4 Radiated Spurious Emission below 1GHz (NR Band n12)



Plot 7-420. Antenna 4 Radiated Spurious Emission above 1GHz (NR Band n12)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 272 of 305

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	144	322	-72.48	-2.84	31.68	-63.57	-13.00	-50.57
2119.5	H	-	-	-78.96	1.24	29.28	-65.97	-13.00	-52.97
2826.0	H	-	-	-79.18	2.86	30.68	-64.57	-13.00	-51.57
3532.5	H	-	-	-79.47	3.90	31.43	-63.83	-13.00	-50.83

Table 7-52. Antenna 4 Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	241	337	-72.64	-2.82	31.54	-63.72	-13.00	-50.72
2122.5	H	-	-	-78.94	1.26	29.32	-65.93	-13.00	-52.93
2830.0	H	-	-	-79.29	2.85	30.56	-64.69	-13.00	-51.69
3537.5	H	-	-	-79.69	3.99	31.30	-63.96	-13.00	-50.96

Table 7-53. Antenna 4 Radiated Spurious Data (NR Band n12 – Mid Channel)

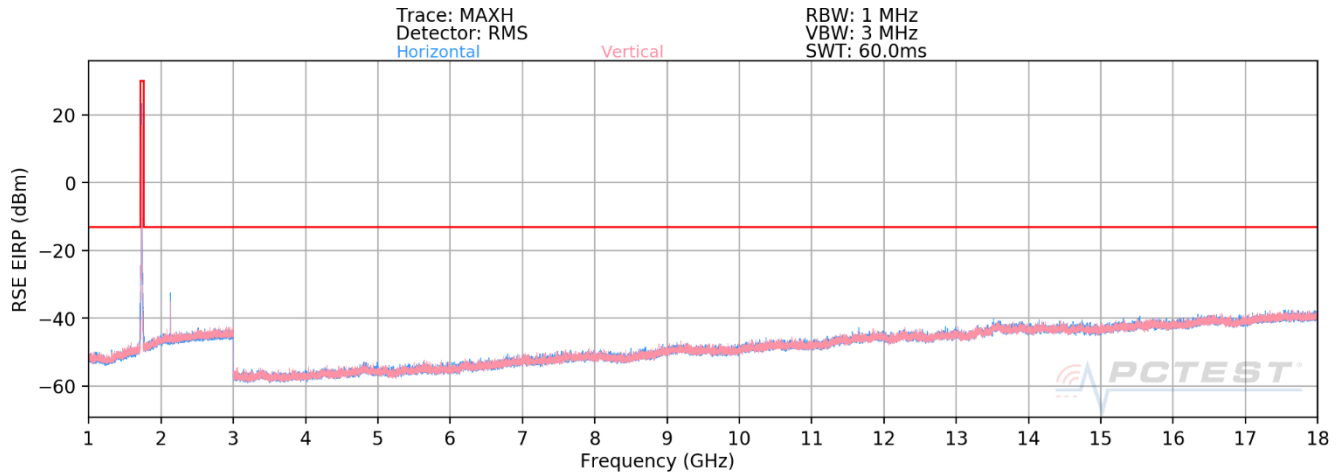
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	147	331	-71.86	-2.80	32.34	-62.92	-13.00	-49.92
2125.5	H	-	-	-78.94	1.29	29.35	-65.91	-13.00	-52.91
2834.0	H	-	-	-79.16	2.85	30.69	-64.57	-13.00	-51.57
3542.5	H	-	-	-79.66	4.09	31.43	-63.83	-13.00	-50.83

Table 7-54. Antenna 4 Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 273 of 305

WCDMA AWS



Plot 7-421. Antenna 4 Radiated Spurious Emission above 1GHz (WCDMA AWS)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 274 of 305

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-78.99	5.15	33.16	-62.09	-13.00	-49.09
5137.2	V	-	-	-79.65	6.95	34.30	-60.96	-13.00	-47.96
6849.6	V	-	-	-80.00	9.73	36.72	-58.54	-13.00	-45.54

Table 7-55. Antenna 4 Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-78.00	4.00	33.00	-62.25	-13.00	-49.25
5197.8	V	-	-	-79.31	6.16	33.85	-61.41	-13.00	-48.41
6930.4	V	-	-	-79.83	9.31	36.48	-58.78	-13.00	-45.78

Table 7-56. Antenna 4 Radiated Spurious Data (WCDMA AWS – Mid Channel)

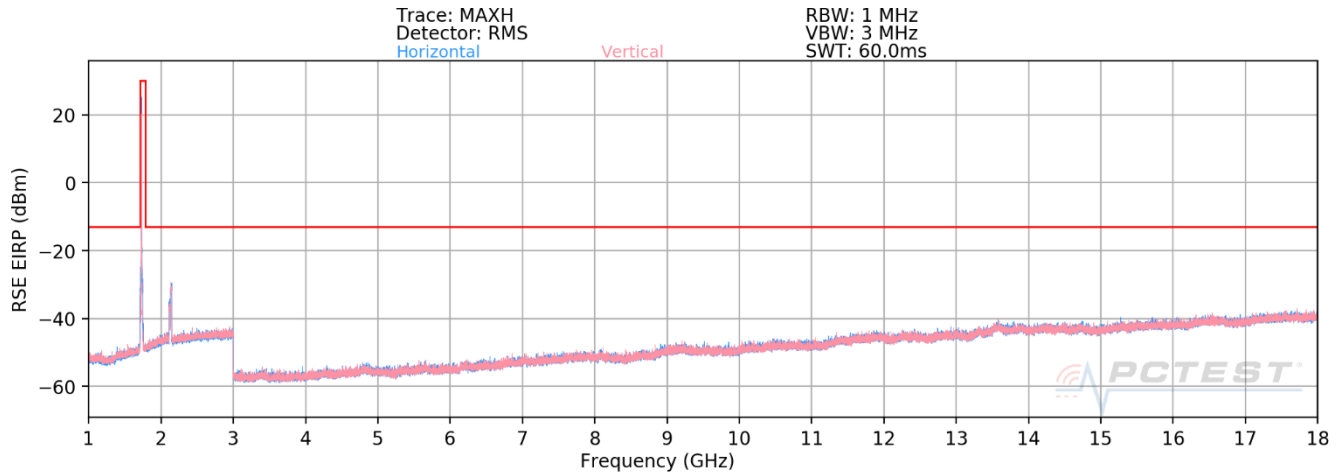
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-78.06	3.76	32.70	-62.56	-13.00	-49.56
5257.8	V	-	-	-79.61	6.62	34.01	-61.24	-13.00	-48.24
7010.4	V	-	-	-80.51	10.38	36.87	-58.39	-13.00	-45.39

Table 7-57. Antenna 4 Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 275 of 305

ULCA LTE Band 66B/C



Plot 7-422. Antenna 4 Radiated Spurious Emission above 1GHz (ULCA LTE Band 66)

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 276 of 305

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	321	225	-75.07	4.73	36.66	-58.60	-13.00	-45.60
5160.0	V	-	-	-79.67	6.55	33.88	-61.38	-13.00	-48.38
6880.0	V	-	-	-79.80	9.44	36.64	-58.62	-13.00	-45.62
8600.0	V	-	-	-80.40	11.99	38.59	-56.66	-13.00	-43.66

Table 7-58. Antenna 4 Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-78.06	3.64	32.58	-62.68	-13.00	-49.68
5235.0	V	-	-	-79.45	6.26	33.81	-61.45	-13.00	-48.45
6980.0	V	-	-	-80.02	9.81	36.79	-58.47	-13.00	-45.47

Table 7-59. Antenna 4 Radiated Spurious Data (ULCA LTE66 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-78.46	4.29	32.83	-62.43	-13.00	-49.43
5310.0	V	-	-	-79.88	7.58	34.70	-60.56	-13.00	-47.56
7080.0	V	-	-	-81.02	10.70	36.68	-58.57	-13.00	-45.57

Table 7-60. Antenna 4 Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 277 of 305

7.7.2 Antenna 2a – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-80.08	4.30	31.22	-64.04	-13.00	-51.04
5160.0	V	-	-	-81.44	6.23	31.79	-63.47	-13.00	-50.47
6880.0	V	-	-	-82.74	9.82	34.08	-61.18	-13.00	-48.18

Table 7-61. Antenna 2a Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-79.96	4.14	31.18	-64.07	-13.00	-51.07
5235.0	V	-	-	-81.32	6.74	32.42	-62.84	-13.00	-49.84
6980.0	V	-	-	-82.23	9.56	34.33	-60.92	-13.00	-47.92

Table 7-62. Antenna 2a Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-79.98	4.28	31.30	-63.96	-13.00	-50.96
5310.0	V	-	-	-81.99	7.57	32.58	-62.68	-13.00	-49.68
7080.0	V	-	-	-82.76	10.15	34.39	-60.87	-13.00	-47.87

Table 7-63. Antenna 2a Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 278 of 305

NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	V	-	-	-79.86	4.87	32.01	-63.25	-13.00	-50.25
5190.0	V	289	308	-77.51	7.17	36.66	-58.60	-13.00	-45.60
6920.0	V	-	-	-81.48	10.20	35.72	-59.54	-13.00	-46.54
8650.0	V	-	-	-82.99	11.73	35.74	-59.52	-13.00	-46.52
10380.0	V	-	-	-83.96	14.36	37.40	-57.86	-13.00	-44.86

Table 7-64. Antenna 2a Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-80.05	5.08	32.03	-63.23	-13.00	-50.23
5235.0	V	279	57	-80.26	7.07	33.81	-61.45	-13.00	-48.45
6980.0	V	-	-	-81.32	9.72	35.40	-59.85	-13.00	-46.85
8725.0	V	-	-	-82.69	11.47	35.78	-59.48	-13.00	-46.48
10470.0	V	-	-	-83.74	14.55	37.81	-57.45	-13.00	-44.45

Table 7-65. Antenna 2a Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	V	-	-	-80.21	5.06	31.85	-63.40	-13.00	-50.40
5280.0	V	261	41	-79.74	7.00	34.26	-60.99	-13.00	-47.99
7040.0	V	-	-	-81.46	10.06	35.60	-59.66	-13.00	-46.66
8800.0	V	-	-	-82.59	11.61	36.02	-59.24	-13.00	-46.24
10560.0	V	-	-	-83.91	14.34	37.43	-57.83	-13.00	-44.83

Table 7-66. Antenna 2a Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 279 of 305

WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-78.65	5.15	33.50	-61.75	-13.00	-48.75
5137.2	V	-	-	-79.82	6.95	34.13	-61.13	-13.00	-48.13
6849.6	V	-	-	-80.13	9.73	36.60	-58.66	-13.00	-45.66

Table 7-67. Antenna 2a Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-78.04	4.00	32.96	-62.29	-13.00	-49.29
5197.8	V	337	47	-76.76	6.16	36.40	-58.86	-13.00	-45.86
6930.4	V	-	-	-79.90	9.31	36.41	-58.85	-13.00	-45.85
8663.0	V	-	-	-81.25	13.19	38.94	-56.32	-13.00	-43.32
10395.6	V	-	-	-81.44	15.57	41.13	-54.13	-13.00	-41.13

Table 7-68. Antenna 2a Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-78.30	3.76	32.46	-62.80	-13.00	-49.80
5257.8	V	-	-	-79.93	6.62	33.69	-61.56	-13.00	-48.56
7010.4	V	-	-	-80.60	10.38	36.78	-58.48	-13.00	-45.48

Table 7-69. Antenna 2a Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 280 of 305

ULCA LTE Band 66B/C

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-78.60	4.73	33.13	-62.13	-13.00	-49.13
5160.0	V	-	-	-79.54	6.55	34.01	-61.25	-13.00	-48.25
6880.0	V	-	-	-80.02	9.44	36.42	-58.84	-13.00	-45.84

Table 7-70. Antenna 2a Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-78.05	3.64	32.59	-62.67	-13.00	-49.67
5235.0	V	-	-	-79.40	6.26	33.86	-61.40	-13.00	-48.40
6980.0	V	-	-	-80.04	9.81	36.77	-58.49	-13.00	-45.49

Table 7-71. Antenna 2a Radiated Spurious Data (ULCA LTE66 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-78.42	4.29	32.87	-62.39	-13.00	-49.39
5310.0	V	-	-	-79.82	7.58	34.76	-60.50	-13.00	-47.50
7080.0	V	-	-	-80.41	10.70	37.29	-57.96	-13.00	-44.96

Table 7-72. Antenna 2a Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 281 of 305

7.7.3 Antenna 3b – Radiated Spurious Emission Measurement

LTE Band 71

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	-	-	-76.89	-2.60	27.51	-67.75	-13.00	-54.75
2019.0	H	-	-	-78.65	0.59	28.94	-66.32	-13.00	-53.32
2692.0	H	-	-	-79.17	2.44	30.27	-64.98	-13.00	-51.98

Table 7-73. Antenna 3b Radiated Spurious Data (LTE Band 71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	-	-	-77.60	-2.89	26.51	-68.75	-13.00	-55.75
2041.5	H	-	-	-78.73	0.87	29.14	-66.12	-13.00	-53.12
2722.0	H	-	-	-79.43	2.84	30.41	-64.85	-13.00	-51.85

Table 7-74. Antenna 3b Radiated Spurious Data (LTE Band 71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	-	-	-77.22	-3.09	26.69	-68.57	-13.00	-55.57
2064.0	H	-	-	-78.34	0.14	28.80	-66.46	-13.00	-53.46
2752.0	H	-	-	-79.09	2.64	30.55	-64.70	-13.00	-51.70

Table 7-75. Antenna 3b Radiated Spurious Data (LTE Band 71 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 282 of 305

LTE Band 12/17

Bandwidth (MHz):	10
Frequency (MHz):	704.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	H	-	-	-77.26	-3.41	26.33	-68.92	-13.00	-55.92
2112.0	H	-	-	-78.55	0.14	28.59	-66.67	-13.00	-53.67
2816.0	H	-	-	-79.57	1.85	29.28	-65.98	-13.00	-52.98

Table 7-76. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	-	-	-76.98	-3.40	26.62	-68.64	-13.00	-55.64
2122.5	H	-	-	-78.81	0.19	28.38	-66.88	-13.00	-53.88
2830.0	H	-	-	-79.53	1.95	29.42	-65.83	-13.00	-52.83

Table 7-77. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	-	-	-77.62	-3.44	25.94	-69.32	-13.00	-56.32
2133.0	H	-	-	-78.74	0.21	28.47	-66.78	-13.00	-53.78
2844.0	H	-	-	-79.49	2.19	29.70	-65.55	-13.00	-52.55

Table 7-78. Antenna 3b Radiated Spurious Data (LTE Band 12/17 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 283 of 305

LTE Band 13

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1/12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1559.0	H	-	-	-78.10	-3.05	25.85	-69.41	-40.00	-29.41
2338.5	H	-	-	-78.91	1.47	29.56	-65.70	-13.00	-52.70
3118.0	H	-	-	-79.91	3.33	30.42	-64.84	-13.00	-51.84

Table 7-79. Antenna 3b Radiated Spurious Data (LTE Band 13 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	782.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.0	H	165	3	-77.92	-3.05	26.03	-69.23	-40.00	-29.23
2346.0	H	-	-	-78.99	1.47	29.48	-65.78	-13.00	-52.78
3128.0	H	-	-	-79.72	3.33	30.61	-64.65	-13.00	-51.65
3910.0	H	-	-	-80.39	4.56	31.17	-64.09	-13.00	-51.09

Table 7-80. Antenna 3b Radiated Spurious Data (LTE Band 13 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1/12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1569.0	H	-	-	-78.23	-3.05	25.72	-69.54	-40.00	-29.54
2353.5	H	-	-	-78.74	1.47	29.73	-65.53	-13.00	-52.53
3138.0	H	-	-	-79.72	3.33	30.61	-64.65	-13.00	-51.65

Table 7-81. Antenna 3b Radiated Spurious Data (LTE Band 13 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 284 of 305

NR Band n71

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	H	123	183	-72.14	-2.24	32.62	-62.64	-13.00	-49.64
2019.0	H	-	-	-78.25	0.55	29.30	-65.96	-13.00	-52.96
2692.0	H	-	-	-79.50	2.96	30.46	-64.80	-13.00	-51.80
3365.0	H	-	-	-80.11	4.42	31.31	-63.95	-13.00	-50.95

Table 7-82. Antenna 3b Radiated Spurious Data (NR Band n71 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	112	335	-74.94	-2.49	29.57	-65.69	-13.00	-52.69
2041.5	H	-	-	-78.40	0.54	29.14	-66.12	-13.00	-53.12
2722.0	H	-	-	-79.47	3.17	30.70	-64.56	-13.00	-51.56
3402.5	H	-	-	-80.22	4.12	30.90	-64.35	-13.00	-51.35

Table 7-83. Antenna 3b Radiated Spurious Data (NR Band n71 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	321	332	-74.33	-2.59	30.08	-65.18	-13.00	-52.18
2064.0	H	-	-	-78.64	0.86	29.22	-66.03	-13.00	-53.03
2752.0	H	-	-	-79.61	3.12	30.51	-64.75	-13.00	-51.75
3440.0	H	-	-	-80.15	4.01	30.86	-64.40	-13.00	-51.40

Table 7-84. Antenna 3b Radiated Spurious Data (NR Band n71 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 285 of 305

NR Band n12

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.0	H	-	-	-78.17	-2.84	25.99	-69.26	-13.00	-56.26
2119.5	H	316	359	-79.08	1.24	29.16	-66.09	-13.00	-53.09
2826.0	H	-	-	-79.60	2.86	30.26	-64.99	-13.00	-51.99
3532.5	H	-	-	-80.06	3.90	30.84	-64.42	-13.00	-51.42
4239.0	H	-	-	-80.67	5.25	31.58	-63.67	-13.00	-50.67

Table 7-85. Antenna 3b Radiated Spurious Data (NR Band n12 – Low Channel)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	-	-	-78.36	-2.82	25.82	-69.44	-13.00	-56.44
2122.5	H	393	214	-78.59	1.26	29.67	-65.58	-13.00	-52.58
2830.0	H	-	-	-79.56	2.85	30.29	-64.96	-13.00	-51.96
3537.5	H	-	-	-80.03	3.99	30.96	-64.30	-13.00	-51.30
4245.0	H	-	-	-81.02	5.16	31.14	-64.12	-13.00	-51.12

Table 7-86. Antenna 3b Radiated Spurious Data (NR Band n12 – Mid Channel)

Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.0	H	-	-	-78.18	-2.80	26.02	-69.24	-13.00	-56.24
2125.5	H	400	149	-76.17	1.29	32.12	-63.14	-13.00	-50.14
2834.0	H	-	-	-79.63	2.85	30.22	-65.04	-13.00	-52.04
3542.5	H	-	-	-80.20	4.09	30.89	-64.37	-13.00	-51.37
4251.0	H	-	-	-80.97	5.12	31.15	-64.10	-13.00	-51.10

Table 7-87. Antenna 3b Radiated Spurious Data (NR Band n12 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 286 of 305

7.7.4 Antenna 3a – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-78.55	4.30	32.75	-62.51	-13.00	-49.51
5160.0	V	-	-	-79.74	6.23	33.49	-61.77	-13.00	-48.77
6880.0	V	-	-	-80.80	9.82	36.02	-59.24	-13.00	-46.24

Table 7-88. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-78.27	4.14	32.87	-62.38	-13.00	-49.38
5235.0	V	-	-	-79.56	6.74	34.18	-61.08	-13.00	-48.08
6980.0	V	-	-	-80.36	9.56	36.20	-59.05	-13.00	-46.05

Table 7-89. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-78.62	4.28	32.66	-62.60	-13.00	-49.60
5310.0	V	-	-	-79.93	7.57	34.64	-60.62	-13.00	-47.62
7080.0	V	-	-	-80.90	10.15	36.25	-59.01	-13.00	-46.01

Table 7-90. Antenna 3a Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 287 of 305

NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	V	-	-	-79.92	5.18	32.26	-63.00	-13.00	-50.00
5190.0	V	-	-	-81.14	7.46	33.32	-61.93	-13.00	-48.93
6920.0	V	-	-	-81.37	10.48	36.11	-59.15	-13.00	-46.15

Table 7-91. Antenna 3a Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	319	227	-77.12	5.23	35.11	-60.15	-13.00	-47.15
5235.0	V	287	205	-80.20	7.38	34.18	-61.08	-13.00	-48.08
6980.0	V	-	-	-81.26	10.90	36.64	-58.62	-13.00	-45.62
8725.0	V	-	-	-82.67	13.14	37.47	-57.79	-13.00	-44.79
10470.0	V	-	-	-83.97	15.96	38.99	-56.27	-13.00	-43.27

Table 7-92. Antenna 3a Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	V	-	-	-80.00	5.87	32.87	-62.39	-13.00	-49.39
5280.0	V	-	-	-80.82	7.62	33.80	-61.45	-13.00	-48.45
7040.0	V	-	-	-81.73	10.93	36.20	-59.05	-13.00	-46.05

Table 7-93. Antenna 3a Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 288 of 305

WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-78.81	5.15	33.34	-61.91	-13.00	-48.91
5137.2	V	-	-	-79.82	6.95	34.13	-61.13	-13.00	-48.13
6849.6	V	-	-	-80.11	9.73	36.62	-58.64	-13.00	-45.64

Table 7-94. Antenna 3a Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-78.04	4.00	32.96	-62.29	-13.00	-49.29
5197.8	V	-	-	-79.50	6.16	33.66	-61.60	-13.00	-48.60
6930.4	V	-	-	-80.02	9.31	36.29	-58.97	-13.00	-45.97

Table 7-95. Antenna 3a Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-78.10	3.76	32.66	-62.60	-13.00	-49.60
5257.8	V	-	-	-79.86	6.62	33.76	-61.49	-13.00	-48.49
7010.4	V	-	-	-80.65	10.38	36.73	-58.53	-13.00	-45.53

Table 7-96. Antenna 3a Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device
		Page 289 of 305

ULCA LTE Band 66B/C

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-78.04	4.73	33.69	-61.57	-13.00	-48.57
5160.0	V	-	-	-79.43	6.55	34.12	-61.14	-13.00	-48.14
6880.0	V	-	-	-80.00	9.44	36.44	-58.82	-13.00	-45.82

Table 7-97. Antenna 3a Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-78.18	3.64	32.46	-62.80	-13.00	-49.80
5235.0	V	-	-	-79.01	6.26	34.25	-61.01	-13.00	-48.01
6980.0	V	-	-	-80.05	9.81	36.76	-58.50	-13.00	-45.50

Table 7-98. Antenna 3a Radiated Spurious Data (ULCA LTE66 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-78.53	4.29	32.76	-62.50	-13.00	-49.50
5310.0	V	-	-	-79.78	7.58	34.80	-60.46	-13.00	-47.46
7080.0	V	-	-	-80.54	10.70	37.16	-58.09	-13.00	-45.09

Table 7-99. Antenna 3a Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 290 of 305

7.7.5 Antenna 1a – Radiated Spurious Emission Measurement

LTE Band 66/4

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-78.58	4.30	32.72	-62.54	-13.00	-49.54
5160.0	V	106	121	-56.89	6.23	56.34	-38.92	-13.00	-25.92
6880.0	V	-	-	-79.79	9.82	37.03	-58.23	-13.00	-45.23
8600.0	V	-	-	-80.43	11.38	37.95	-57.31	-13.00	-44.31
10320.0	V	-	-	-81.34	13.79	39.45	-55.81	-13.00	-42.81

Table 7-100. Antenna 1a Radiated Spurious Data (LTE Band 66/4 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	231	195	-75.18	4.14	35.96	-59.29	-13.00	-46.29
5235.0	V	102	122	-60.92	6.74	52.82	-42.44	-13.00	-29.44
6980.0	V	-	-	-80.15	9.56	36.41	-58.84	-13.00	-45.84
8725.0	V	-	-	-81.31	11.13	36.82	-58.44	-13.00	-45.44
10470.0	V	-	-	-81.15	13.68	39.53	-55.73	-13.00	-42.73

Table 7-101. Antenna 1a Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	239	119	-77.67	4.28	33.61	-61.65	-13.00	-48.65
5310.0	V	215	130	-71.36	7.57	43.21	-52.05	-13.00	-39.05
7080.0	V	-	-	-80.80	10.15	36.35	-58.91	-13.00	-45.91
8850.0	V	-	-	-80.35	11.40	38.05	-57.21	-13.00	-44.21
10620.0	V	-	-	-81.13	14.17	40.04	-55.22	-13.00	-42.22

Table 7-102. Antenna 1a Radiated Spurious Data (LTE Band 66/4 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 291 of 305

NR Band n66

Bandwidth (MHz):	40
Frequency (MHz):	1730.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.0	V	-	-	-80.04	5.18	32.14	-63.12	-13.00	-50.12
5190.0	V	110	228	-69.89	7.46	44.57	-50.68	-13.00	-37.68
6920.0	V	-	-	-81.45	10.48	36.03	-59.23	-13.00	-46.23
8650.0	V	-	-	-83.00	12.64	36.64	-58.62	-13.00	-45.62
10380.0	V	-	-	-83.74	15.62	38.88	-56.37	-13.00	-43.37

Table 7-103. Antenna 1a Radiated Spurious Data (NR Band n66 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-80.15	5.23	32.08	-63.18	-13.00	-50.18
5235.0	V	260	321	-67.81	7.38	46.57	-48.69	-13.00	-35.69
6980.0	V	-	-	-81.46	10.90	36.44	-58.82	-13.00	-45.82
8725.0	V	-	-	-82.34	13.14	37.80	-57.46	-13.00	-44.46
10470.0	V	-	-	-83.61	15.96	39.35	-55.91	-13.00	-42.91

Table 7-104. Antenna 1a Radiated Spurious Data (NR Band n66 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.0	V	-	-	-80.26	5.87	32.61	-62.65	-13.00	-49.65
5280.0	V	115	119	-68.13	7.62	46.49	-48.76	-13.00	-35.76
7040.0	V	-	-	-81.48	10.93	36.45	-58.80	-13.00	-45.80
8800.0	V	-	-	-82.74	12.87	37.13	-58.13	-13.00	-45.13
10560.0	V	-	-	-83.84	15.39	38.55	-56.70	-13.00	-43.70

Table 7-105. Antenna 1a Radiated Spurious Data (NR Band n66 – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 292 of 305

WCDMA AWS

Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	V	-	-	-78.79	5.15	33.36	-61.89	-13.00	-48.89
5137.2	V	-	-	-79.83	6.95	34.12	-61.14	-13.00	-48.14
6849.6	V	-	-	-80.11	9.73	36.62	-58.64	-13.00	-45.64

Table 7-106. Antenna 1a Radiated Spurious Data (WCDMA AWS – Low Channel)

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	V	-	-	-78.03	4.00	32.97	-62.28	-13.00	-49.28
5197.8	V	-	-	-79.45	6.16	33.71	-61.55	-13.00	-48.55
6930.4	V	-	-	-80.17	9.31	36.14	-59.12	-13.00	-46.12

Table 7-107. Antenna 1a Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	V	-	-	-78.23	3.76	32.53	-62.73	-13.00	-49.73
5257.8	V	-	-	-79.76	6.62	33.86	-61.39	-13.00	-48.39
7010.4	V	-	-	-80.64	10.38	36.74	-58.52	-13.00	-45.52

Table 7-108. Antenna 1a Radiated Spurious Data (WCDMA AWS – High Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 293 of 305

ULCA LTE Band 66B/C

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.0	V	-	-	-78.21	4.73	33.52	-61.74	-13.00	-48.74
5160.0	V	-	-	-79.54	6.55	34.01	-61.25	-13.00	-48.25
6880.0	V	-	-	-80.02	9.44	36.42	-58.84	-13.00	-45.84

Table 7-109. Antenna 1a Radiated Spurious Data (ULCA LTE66 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.0	V	-	-	-77.97	3.64	32.67	-62.59	-13.00	-49.59
5235.0	V	-	-	-79.36	6.26	33.90	-61.36	-13.00	-48.36
6980.0	V	-	-	-80.01	9.81	36.80	-58.46	-13.00	-45.46

Table 7-110. Antenna 1a Radiated Spurious Data (ULCA LTE66 – Mid Channel)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 294 of 305

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.0	V	-	-	-78.46	4.29	32.83	-62.43	-13.00	-49.43
5310.0	V	-	-	-79.80	7.58	34.78	-60.48	-13.00	-47.48
7080.0	V	-	-	-80.41	10.70	37.29	-57.96	-13.00	-44.96
8850.0	V				12.58			-13.00	
10620.0	V				15.59			-13.00	
12390.0	V				18.39			-13.00	
14160.0	V				21.21			-13.00	
15930.0	V				23.11			-13.00	

Table 7-111. Antenna 1a Radiated Spurious Data (ULCA LTE66 – High Channel)

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 295 of 305

7.8 Frequency Stability / Temperature Variation

\$2.1053, \$27.53

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26 2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

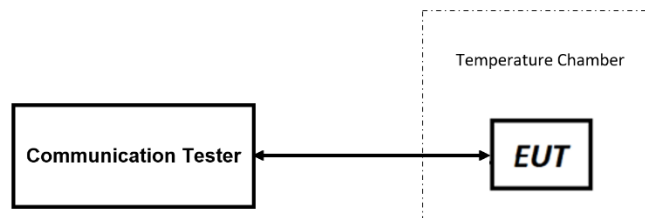


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported
2. NR bands with wider bandwidths compared to respective LTE bands have been investigated and worst case was reported. NR Bands with equal or lower bandwidths to respective LTE bands are covered by their respective LTE Bands.

FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 296 of 305

Frequency Stability / Temperature Variation

LTE Band 66/4

Low Channel Frequency (Hz):	1,720,000,000
High Channel Frequency (Hz):	1,770,000,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,719,999,998	1,769,999,982	0	-8	-0.0000005
		- 20	1,719,999,999	1,769,999,984	1	-6	-0.0000004
		- 10	1,720,000,002	1,769,999,982	4	-9	-0.0000005
		0	1,720,000,000	1,769,999,981	1	-9	-0.0000005
		+ 10	1,719,999,998	1,769,999,982	-1	-9	-0.0000005
		+ 20 (Ref)	1,719,999,999	1,769,999,991	0	0	0.0000000
		+ 30	1,719,999,988	1,769,999,978	-11	-13	-0.0000007
		+ 40	1,719,999,991	1,769,999,978	-8	-13	-0.0000007
		+ 50	1,719,999,991	1,769,999,978	-8	-13	-0.0000007
Battery Endpoint	3.23	+ 20	1,719,999,997	1,769,999,981	-2	-10	-0.0000006

Table 7-112. LTE Band 66/4 Frequency Stability Data

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 297 of 305

Frequency Stability / Temperature Variation

LTE Band 71

Low Channel Frequency (Hz):	673,000,000
High Channel Frequency (Hz):	688,000,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	673,000,001	688,000,001	0	0	0.0000001
		- 20	673,000,001	688,000,002	0	2	0.0000003
		- 10	673,000,002	688,000,001	1	0	0.0000002
		0	673,000,001	688,000,000	1	0	0.0000001
		+ 10	673,000,000	688,000,000	0	0	-0.0000001
		+ 20 (Ref)	673,000,000	688,000,000	0	0	0.0000000
		+ 30	672,999,997	688,000,002	-3	1	-0.0000005
		+ 40	673,000,001	688,000,002	1	2	0.0000003
		+ 50	673,000,002	688,000,002	1	2	0.0000001
Battery Endpoint	3.23	+ 20	673,000,000	688,000,000	0	0	0.0000000

Table 7-113. LTE Band 71 Frequency Stability Data

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 298 of 305

Frequency Stability / Temperature Variation

LTE Band 12/17

Low Channel Frequency (Hz):	704,000,000
High Channel Frequency (Hz):	711,000,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	703,999,998	710,999,998	-2	-1	-0.0000002
		- 20	703,999,999	711,000,000	0	0	0.0000001
		- 10	703,999,996	711,000,002	-4	2	-0.0000005
		0	703,999,998	711,000,001	-2	1	-0.0000003
		+ 10	703,999,998	710,999,999	-1	-1	-0.0000001
		+ 20 (Ref)	704,000,000	711,000,000	0	0	0.0000000
		+ 30	703,999,995	710,999,997	-5	-2	-0.0000007
		+ 40	703,999,997	710,999,997	-3	-3	-0.0000004
		+ 50	703,999,997	710,999,996	-3	-4	-0.0000002
Battery Endpoint	3.23	+ 20	703,999,997	710,999,997	-2	-3	-0.0000002

Table 7-114. LTE Band 12/17 Frequency Stability Data

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 299 of 305

Frequency Stability / Temperature Variation

LTE Band 13

Low Channel Frequency (Hz):	779,500,000
High Channel Frequency (Hz):	784,500,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	779,499,999	784,500,000	1	1	0.0000002
		- 20	779,499,999	784,500,000	1	1	0.0000002
		- 10	779,500,000	784,499,999	2	0	0.0000003
		0	779,499,996	784,500,000	-2	1	-0.0000002
		+ 10	779,499,997	784,499,998	-1	-1	-0.0000002
		+ 20 (Ref)	779,499,998	784,499,999	0	0	0.0000000
		+ 30	779,499,997	784,499,997	-1	-2	-0.0000002
		+ 40	779,499,995	784,499,996	-3	-2	-0.0000004
		+ 50	779,499,996	784,499,996	-2	-2	-0.0000001
Battery Endpoint	3.23	+ 20	779,499,997	784,499,997	-1	-1	-0.0000001

Table 7-115. LTE Band 13 Frequency Stability Data

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 300 of 305

Frequency Stability / Temperature Variation

NR Band n66

Low Channel Frequency (Hz):	1,730,000,000
High Channel Frequency (Hz):	1,760,000,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,729,999,811	1,760,000,167	-94	83	-0.0000055
		- 20	1,729,999,811	1,760,000,167	-94	84	-0.0000055
		- 10	1,729,999,811	1,760,000,167	-94	84	-0.0000055
		0	1,729,999,811	1,760,000,167	-95	84	-0.0000055
		+ 10	1,729,999,811	1,760,000,167	-94	83	-0.0000055
		+ 20 (Ref)	1,729,999,906	1,760,000,083	0	0	0.0000000
		+ 30	1,729,999,811	1,760,000,167	-94	83	-0.0000054
		+ 40	1,729,999,811	1,760,000,167	-94	83	-0.0000055
		+ 50	1,729,999,811	1,760,000,170	-94	87	-0.0000055
Battery Endpoint	3.23	+ 20	1,729,999,811	1,760,000,166	-94	83	-0.0000055

Table 7-116. NR Band n66 Frequency Stability Data

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 301 of 305

Frequency Stability / Temperature Variation

NR Band n71

Low Channel Frequency (Hz):	673,000,000
High Channel Frequency (Hz):	688,000,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	672,998,995	687,998,745	-524	-655	-0.0000953
		- 20	672,998,891	687,998,750	-628	-650	-0.0000945
		- 10	672,999,027	687,998,805	-492	-596	-0.0000866
		0	672,999,037	687,998,757	-482	-643	-0.0000935
		+ 10	672,999,043	687,998,738	-476	-662	-0.0000963
		+ 20 (Ref)	672,999,519	687,999,401	0	0	0.0000000
		+ 30	672,998,983	687,998,771	-536	-630	-0.0000915
		+ 40	672,998,940	687,998,799	-579	-602	-0.0000875
		+ 50	672,999,040	687,998,848	-479	-553	-0.0000316
Battery Endpoint	3.23	+ 20	672,999,038	687,998,802	-481	-599	-0.0000342

Table 7-117. NR Band n71 Frequency Stability Data

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device		Page 302 of 305

Frequency Stability / Temperature Variation

NR Band n12

Low Channel Frequency (Hz):	834,000,000
High Channel Frequency (Hz):	839,000,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	833,999,996	839,000,005	-2	2	-0.0000003
		- 20	833,999,995	839,000,005	-2	2	-0.0000003
		- 10	833,999,996	839,000,005	-2	2	-0.0000003
		0	833,999,995	839,000,005	-2	2	-0.0000003
		+ 10	833,999,995	839,000,005	-2	2	-0.0000003
		+ 20 (Ref)	833,999,998	839,000,002	0	0	0.0000000
		+ 30	833,999,995	839,000,005	-2	2	-0.0000003
		+ 40	833,999,995	839,000,005	-2	2	0.0000003
		+ 50	833,999,995	839,000,005	-2	2	0.0000001
Battery Endpoint	3.23	+ 20	833,999,995	839,000,005	-2	2	0.0000001

Table 7-118. NR Band n12 Frequency Stability Data

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device	Page 303 of 305

Frequency Stability / Temperature Variation

WCDMA AWS

Low Channel Frequency (Hz):	1,712,400,000
High Channel Frequency (Hz):	1,752,600,000
Ref. Voltage (VDC):	3.80

Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,712,400,018	1,752,600,007	18	7	0.0000010
		- 20	1,712,399,998	1,752,600,017	-2	17	0.0000009
		- 10	1,712,399,989	1,752,600,022	-11	22	0.0000012
		0	1,712,399,993	1,752,600,018	-8	18	0.0000010
		+ 10	1,712,400,003	1,752,600,010	3	10	0.0000006
		+ 20 (Ref)	1,712,400,000	1,752,600,000	0	0	0.0000000
		+ 30	1,712,400,018	1,752,599,987	18	-13	0.0000010
		+ 40	1,712,400,025	1,752,599,979	25	-21	0.0000015
		+ 50	1,712,400,025	1,752,599,977	25	-23	0.0000015
Battery Endpoint	3.23	+ 20	1,712,400,008	1,752,599,999	8	-1	0.0000005

Table 7-119. WCDMA AWS Frequency Stability Data

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device		Page 304 of 305

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2589** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2589	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2111150079-03.BCG	Test Dates: 11/29/2021 – 2/5/2022	EUT Type: Tablet Device
		Page 305 of 305