



Annex A

Output Power

UNII-2A and UNII-2C



UNII-2A Output Power for 6 dBi OMNI Antenna										
Bandwidth	Test Frequency	Data Rate	TP	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz			dBm	dBm	mW	mW	dBm	dBm	dB
10	5255	vt0	18	15.4	14.8	34.7	30.2	18.1	24	-5.9
10	5300	vt0	18	15.0	15.0	31.6	31.6	18.0	24	-6.0
10	5340	vt0	6	5.6	4.8	3.6	3.0	8.2	24	-15.8
20	5260	vt0	19	16.0	17.7	39.8	58.9	19.9	24	-4.1
20	5300	vt0	19	15.9	17.9	38.9	61.7	20.0	24	-4.0
20	5335	vt0	1	0.4	0.5	1.1	1.1	3.5	24	-20.5
30	5265	vt0	19	18.2	17.9	66.1	61.7	21.1	24	-2.9
30	5300	vt0	19	16.3	18.0	42.7	63.1	20.2	24	-3.8
30	5330	vt0	-7	-3.0	-3.3	0.5	0.5	-0.1	24	-24.1
40	5270	vf0	19	15.3	15.0	33.9	31.6	18.2	24	-5.8
40	5300	vf0	19	15.5	15.6	35.5	36.3	18.6	24	-5.4
40	5325	vf0	-6	-2.7	-2.7	0.5	0.5	0.3	24	-23.7
50	5275	vf0	14	11.3	10.8	13.5	12.0	14.1	24	-9.9
50	5300	vf0	14	11.1	11.3	12.9	13.5	14.2	24	-9.8
50	5320	vf0	-6	-2.8	-2.8	0.5	0.5	0.2	24	-23.8
60	5280	vf0	10	7.3	7.5	5.4	5.6	10.4	24	-13.6
60	5300	vf0	10	7.6	7.6	5.8	5.8	10.6	24	-13.4
60	5315	vf0	-8	-4.7	-4.1	0.3	0.4	-1.4	24	-25.4
80	5290	ve00	9	5.7	5.9	3.7	3.9	8.8	24	-15.2
80	5300	ve00	1	-1.1	-1.0	0.8	0.8	2.0	24	-22.0
80	5305	ve00	-6	-3.1	-2.8	0.5	0.5	0.1	24	-23.9



UNII-2A Output Power for 22 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5255	vt0	-0.6	-1.2	0.9	0.8	2.1	8	-5.9
10	5300	vt0	-1.0	-1.0	0.8	0.8	2.0	8	-6.0
10	5340	vt0	-10.4	-11.2	0.1	0.1	-7.8	8	-15.8
20	5260	vt0	0.0	1.7	1.0	1.5	3.9	8	-4.1
20	5300	vt0	-0.1	1.9	1.0	1.5	4.0	8	-4.0
20	5335	vt0	-15.6	-15.5	0.0	0.0	-12.5	8	-20.5
30	5265	vt0	2.2	1.9	1.7	1.5	5.1	8	-2.9
30	5300	vt0	0.3	2.0	1.1	1.6	4.2	8	-3.8
30	5330	vt0	-19.0	-19.3	0.0	0.0	-16.1	8	-24.1
40	5270	vf0	-0.7	-1.0	0.9	0.8	2.2	8	-5.8
40	5300	vf0	-0.5	-0.4	0.9	0.9	2.6	8	-5.4
40	5325	vf0	-18.7	-18.7	0.0	0.0	-15.7	8	-23.7
50	5275	vf0	-4.7	-5.2	0.3	0.3	-1.9	8	-9.9
50	5300	vf0	-4.9	-4.7	0.3	0.3	-1.8	8	-9.8
50	5320	vf0	-18.8	-18.8	0.0	0.0	-15.8	8	-23.8
60	5280	vf0	-8.7	-8.5	0.1	0.1	-5.6	8	-13.6
60	5300	vf0	-8.4	-8.4	0.1	0.1	-5.4	8	-13.4
60	5315	vf0	-20.7	-20.1	0.0	0.0	-17.4	8	-25.4
80	5290	ve00	-10.3	-10.1	0.1	0.1	-7.2	8	-15.2
80	5300	ve00	-17.1	-17.0	0.0	0.0	-14.0	8	-22.0
80	5305	ve00	-19.1	-18.8	0.0	0.0	-15.9	8	-23.9



UNII-2A Output Power for 25 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5255	vt0	-3.6	-4.2	0.4	0.4	-0.9	5	-5.9
10	5300	vt0	-4.0	-4.0	0.4	0.4	-1.0	5	-6.0
10	5340	vt0	-13.4	-14.2	0.0	0.0	-10.8	5	-15.8
20	5260	vt0	-3.0	-1.3	0.5	0.7	0.9	5	-4.1
20	5300	vt0	-3.1	-1.1	0.5	0.8	1.0	5	-4.0
20	5335	vt0	-18.6	-18.5	0.0	0.0	-15.5	5	-20.5
30	5265	vt0	-0.8	-1.1	0.8	0.8	2.1	5	-2.9
30	5300	vt0	-2.7	-1.0	0.5	0.8	1.2	5	-3.8
30	5330	vt0	-22.0	-22.3	0.0	0.0	-19.1	5	-24.1
40	5270	vf0	-3.7	-4.0	0.4	0.4	-0.8	5	-5.8
40	5300	vf0	-3.5	-3.4	0.4	0.5	-0.4	5	-5.4
40	5325	vf0	-21.7	-21.7	0.0	0.0	-18.7	5	-23.7
50	5275	vf0	-7.7	-8.2	0.2	0.2	-4.9	5	-9.9
50	5300	vf0	-7.9	-7.7	0.2	0.2	-4.8	5	-9.8
50	5320	vf0	-21.8	-21.8	0.0	0.0	-18.8	5	-23.8
60	5280	vf0	-11.7	-11.5	0.1	0.1	-8.6	5	-13.6
60	5300	vf0	-11.4	-11.4	0.1	0.1	-8.4	5	-13.4
60	5315	vf0	-23.7	-23.1	0.0	0.0	-20.4	5	-25.4
80	5290	ve00	-13.3	-13.1	0.0	0.0	-10.2	5	-15.2
80	5300	ve00	-20.1	-20.0	0.0	0.0	-17.0	5	-22.0
80	5305	ve00	-22.1	-21.8	0.0	0.0	-18.9	5	-23.9



UNII-2A Output Power for 27 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5255	vt0	-5.6	-6.2	0.3	0.2	-2.9	3	-5.9
10	5300	vt0	-6.0	-6.0	0.3	0.3	-3.0	3	-6.0
10	5340	vt0	-15.4	-16.2	0.0	0.0	-12.8	3	-15.8
20	5260	vt0	-5.0	-3.3	0.3	0.5	-1.1	3	-4.1
20	5300	vt0	-5.1	-3.1	0.3	0.5	-1.0	3	-4.0
20	5335	vt0	-20.6	-20.5	0.0	0.0	-17.5	3	-20.5
30	5265	vt0	-2.8	-3.1	0.5	0.5	0.1	3	-2.9
30	5300	vt0	-4.7	-3.0	0.3	0.5	-0.8	3	-3.8
30	5330	vt0	-24.0	-24.3	0.0	0.0	-21.1	3	-24.1
40	5270	vf0	-5.7	-6.0	0.3	0.3	-2.8	3	-5.8
40	5300	vf0	-5.5	-5.4	0.3	0.3	-2.4	3	-5.4
40	5325	vf0	-23.7	-23.7	0.0	0.0	-20.7	3	-23.7
50	5275	vf0	-9.7	-10.2	0.1	0.1	-6.9	3	-9.9
50	5300	vf0	-9.9	-9.7	0.1	0.1	-6.8	3	-9.8
50	5320	vf0	-23.8	-23.8	0.0	0.0	-20.8	3	-23.8
60	5280	vf0	-13.7	-13.5	0.0	0.0	-10.6	3	-13.6
60	5300	vf0	-13.4	-13.4	0.0	0.0	-10.4	3	-13.4
60	5315	vf0	-25.7	-25.1	0.0	0.0	-22.4	3	-25.4
80	5290	ve00	-15.3	-15.1	0.0	0.0	-12.2	3	-15.2
80	5300	ve00	-22.1	-22.0	0.0	0.0	-19.0	3	-22.0
80	5305	ve00	-24.1	-23.8	0.0	0.0	-20.9	3	-23.9



UNII-2A Output Power for 29 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5255	vt0	-7.6	-8.2	0.2	0.2	-4.9	1	-5.9
10	5300	vt0	-8.0	-8.0	0.2	0.2	-5.0	1	-6.0
10	5340	vt0	-17.4	-18.2	0.0	0.0	-14.8	1	-15.8
20	5260	vt0	-7.0	-5.3	0.2	0.3	-3.1	1	-4.1
20	5300	vt0	-7.1	-5.1	0.2	0.3	-3.0	1	-4.0
20	5335	vt0	-22.6	-22.5	0.0	0.0	-19.5	1	-20.5
30	5265	vt0	-4.8	-5.1	0.3	0.3	-1.9	1	-2.9
30	5300	vt0	-6.7	-5.0	0.2	0.3	-2.8	1	-3.8
30	5330	vt0	-26.0	-26.3	0.0	0.0	-23.1	1	-24.1
40	5270	vf0	-7.7	-8.0	0.2	0.2	-4.8	1	-5.8
40	5300	vf0	-7.5	-7.4	0.2	0.2	-4.4	1	-5.4
40	5325	vf0	-25.7	-25.7	0.0	0.0	-22.7	1	-23.7
50	5275	vf0	-11.7	-12.2	0.1	0.1	-8.9	1	-9.9
50	5300	vf0	-11.9	-11.7	0.1	0.1	-8.8	1	-9.8
50	5320	vf0	-25.8	-25.8	0.0	0.0	-22.8	1	-23.8
60	5280	vf0	-15.7	-15.5	0.0	0.0	-12.6	1	-13.6
60	5300	vf0	-15.4	-15.4	0.0	0.0	-12.4	1	-13.4
60	5315	vf0	-27.7	-27.1	0.0	0.0	-24.4	1	-25.4
80	5290	ve00	-17.3	-17.1	0.0	0.0	-14.2	1	-15.2
80	5300	ve00	-24.1	-24.0	0.0	0.0	-21.0	1	-22.0
80	5305	ve00	-26.1	-25.8	0.0	0.0	-22.9	1	-23.9



UNII-2C Output Power for 6 dBi OMNI Antenna										
Bandwidth	Test Frequency	Data Rate	TP	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz			dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	16	13.5	13.4	22.4	21.9	16.5	24	-7.5
10	5600	vt0	17	16.0	16.7	39.8	46.8	19.4	24	-4.6
10	5715	vt0	16	15.1	15.4	32.4	34.7	18.3	24	-5.7
20	5485	vt0	14	12.2	12.1	16.6	16.2	15.2	24	-8.8
20	5600	vt0	18	17.1	17.5	51.3	56.2	20.3	24	-3.7
20	5710	vt0	12	10.1	10.6	10.2	11.5	13.4	24	-10.6
30	5490	vt0	11	9.0	9.0	7.9	7.9	12.0	24	-12.0
30	5600	vt0	20	19.7	20.1	93.3	102.3	22.9	24	-1.1
30	5705	vt0	10	8.5	9.0	7.1	7.9	11.8	24	-12.2
40	5495	vf0	10	7.6	7.7	5.8	5.9	10.7	24	-13.3
40	5600	vf0	20	16.7	17.0	46.8	50.1	19.9	24	-4.1
40	5700	vf0	11	8.9	9.3	7.8	8.5	12.1	24	-11.9
50	5500	vf0	8	5.8	6.0	3.8	4.0	8.9	24	-15.1
50	5600	vf0	19	15.8	16.1	38.0	40.7	19.0	24	-5.0
50	5695	vf0	12	9.7	10.3	9.3	10.7	13.0	24	-11.0
60	5505	vf0	6	4.0	4.1	2.5	2.6	7.1	24	-16.9
60	5600	vf0	17	13.9	14.2	24.5	26.3	17.1	24	-6.9
60	5690	vf0	11	9.1	9.5	8.1	8.9	12.3	24	-11.7
80	5515	ve00	0	-1.5	-1.3	0.7	0.7	1.6	24	-22.4
80	5600	ve00	17	13.5	14.1	22.4	25.7	16.8	24	-7.2
80	5680	ve00	12	9.6	10.1	9.1	10.2	12.9	24	-11.1



UNII-2C Output Power for 22 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	-2.5	-2.6	0.6	0.5	0.5	24	-23.5
10	5600	vt0	0.0	0.7	1.0	1.2	3.4	24	-20.6
10	5715	vt0	-0.9	-0.6	0.8	0.9	2.3	24	-21.7
20	5485	vt0	-3.8	-3.9	0.4	0.4	-0.8	24	-24.8
20	5600	vt0	1.1	1.5	1.3	1.4	4.3	24	-19.7
20	5710	vt0	-5.9	-5.4	0.3	0.3	-2.6	24	-26.6
30	5490	vt0	-7.0	-7.0	0.2	0.2	-4.0	24	-28.0
30	5600	vt0	3.7	4.1	2.3	2.6	6.9	24	-17.1
30	5705	vt0	-7.5	-7.0	0.2	0.2	-4.2	24	-28.2
40	5495	vf0	-8.4	-8.3	0.1	0.1	-5.3	24	-29.3
40	5600	vf0	0.7	1.0	1.2	1.3	3.9	24	-20.1
40	5700	vf0	-7.1	-6.7	0.2	0.2	-3.9	24	-27.9
50	5500	vf0	-10.2	-10.0	0.1	0.1	-7.1	24	-31.1
50	5600	vf0	-0.2	0.1	1.0	1.0	3.0	24	-21.0
50	5695	vf0	-6.3	-5.7	0.2	0.3	-3.0	24	-27.0
60	5505	vf0	-12.0	-11.9	0.1	0.1	-8.9	24	-32.9
60	5600	vf0	-2.1	-1.8	0.6	0.7	1.1	24	-22.9
60	5690	vf0	-6.9	-6.5	0.2	0.2	-3.7	24	-27.7
80	5515	ve00	-17.5	-17.3	0.0	0.0	-14.4	24	-38.4
80	5600	ve00	-2.5	-1.9	0.6	0.6	0.8	24	-23.2
80	5680	ve00	-6.4	-5.9	0.2	0.3	-3.1	24	-27.1



UNII-2C Output Power for 25 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	-5.5	-5.6	0.3	0.3	-2.5	24	-26.5
10	5600	vt0	-3.0	-2.3	0.5	0.6	0.4	24	-23.6
10	5715	vt0	-3.9	-3.6	0.4	0.4	-0.7	24	-24.7
20	5485	vt0	-6.8	-6.9	0.2	0.2	-3.8	24	-27.8
20	5600	vt0	-1.9	-1.5	0.6	0.7	1.3	24	-22.7
20	5710	vt0	-8.9	-8.4	0.1	0.1	-5.6	24	-29.6
30	5490	vt0	-10.0	-10.0	0.1	0.1	-7.0	24	-31.0
30	5600	vt0	0.7	1.1	1.2	1.3	3.9	24	-20.1
30	5705	vt0	-10.5	-10.0	0.1	0.1	-7.2	24	-31.2
40	5495	vf0	-11.4	-11.3	0.1	0.1	-8.3	24	-32.3
40	5600	vf0	-2.3	-2.0	0.6	0.6	0.9	24	-23.1
40	5700	vf0	-10.1	-9.7	0.1	0.1	-6.9	24	-30.9
50	5500	vf0	-13.2	-13.0	0.0	0.1	-10.1	24	-34.1
50	5600	vf0	-3.2	-2.9	0.5	0.5	0.0	24	-24.0
50	5695	vf0	-9.3	-8.7	0.1	0.1	-6.0	24	-30.0
60	5505	vf0	-15.0	-14.9	0.0	0.0	-11.9	24	-35.9
60	5600	vf0	-5.1	-4.8	0.3	0.3	-1.9	24	-25.9
60	5690	vf0	-9.9	-9.5	0.1	0.1	-6.7	24	-30.7
80	5515	ve00	-20.5	-20.3	0.0	0.0	-17.4	24	-41.4
80	5600	ve00	-5.5	-4.9	0.3	0.3	-2.2	24	-26.2
80	5680	ve00	-9.4	-8.9	0.1	0.1	-6.1	24	-30.1



UNII-2C Output Power for 27 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	-7.5	-7.6	0.2	0.2	-4.5	24	-28.5
10	5600	vt0	-5.0	-4.3	0.3	0.4	-1.6	24	-25.6
10	5715	vt0	-5.9	-5.6	0.3	0.3	-2.7	24	-26.7
20	5485	vt0	-8.8	-8.9	0.1	0.1	-5.8	24	-29.8
20	5600	vt0	-3.9	-3.5	0.4	0.4	-0.7	24	-24.7
20	5710	vt0	-10.9	-10.4	0.1	0.1	-7.6	24	-31.6
30	5490	vt0	-12.0	-12.0	0.1	0.1	-9.0	24	-33.0
30	5600	vt0	-1.3	-0.9	0.7	0.8	1.9	24	-22.1
30	5705	vt0	-12.5	-12.0	0.1	0.1	-9.2	24	-33.2
40	5495	vf0	-13.4	-13.3	0.0	0.0	-10.3	24	-34.3
40	5600	vf0	-4.3	-4.0	0.4	0.4	-1.1	24	-25.1
40	5700	vf0	-12.1	-11.7	0.1	0.1	-8.9	24	-32.9
50	5500	vf0	-15.2	-15.0	0.0	0.0	-12.1	24	-36.1
50	5600	vf0	-5.2	-4.9	0.3	0.3	-2.0	24	-26.0
50	5695	vf0	-11.3	-10.7	0.1	0.1	-8.0	24	-32.0
60	5505	vf0	-17.0	-16.9	0.0	0.0	-13.9	24	-37.9
60	5600	vf0	-7.1	-6.8	0.2	0.2	-3.9	24	-27.9
60	5690	vf0	-11.9	-11.5	0.1	0.1	-8.7	24	-32.7
80	5515	ve00	-22.5	-22.3	0.0	0.0	-19.4	24	-43.4
80	5600	ve00	-7.5	-6.9	0.2	0.2	-4.2	24	-28.2
80	5680	ve00	-11.4	-10.9	0.1	0.1	-8.1	24	-32.1



UNII-2C Output Power for 29 dBi Dish Antenna									
Bandwidth	Test Frequency	Data Rate	J7 Level	J13 Level	J7 Level	J13 Level	Combined Output Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	-9.5	-9.6	0.1	0.1	-6.5	24	-30.5
10	5600	vt0	-7.0	-6.3	0.2	0.2	-3.6	24	-27.6
10	5715	vt0	-7.9	-7.6	0.2	0.2	-4.7	24	-28.7
20	5485	vt0	-10.8	-10.9	0.1	0.1	-7.8	24	-31.8
20	5600	vt0	-5.9	-5.5	0.3	0.3	-2.7	24	-26.7
20	5710	vt0	-12.9	-12.4	0.1	0.1	-9.6	24	-33.6
30	5490	vt0	-14.0	-14.0	0.0	0.0	-11.0	24	-35.0
30	5600	vt0	-3.3	-2.9	0.5	0.5	-0.1	24	-24.1
30	5705	vt0	-14.5	-14.0	0.0	0.0	-11.2	24	-35.2
40	5495	vf0	-15.4	-15.3	0.0	0.0	-12.3	24	-36.3
40	5600	vf0	-6.3	-6.0	0.2	0.3	-3.1	24	-27.1
40	5700	vf0	-14.1	-13.7	0.0	0.0	-10.9	24	-34.9
50	5500	vf0	-17.2	-17.0	0.0	0.0	-14.1	24	-38.1
50	5600	vf0	-7.2	-6.9	0.2	0.2	-4.0	24	-28.0
50	5695	vf0	-13.3	-12.7	0.0	0.1	-10.0	24	-34.0
60	5505	vf0	-19.0	-18.9	0.0	0.0	-15.9	24	-39.9
60	5600	vf0	-9.1	-8.8	0.1	0.1	-5.9	24	-29.9
60	5690	vf0	-13.9	-13.5	0.0	0.0	-10.7	24	-34.7
80	5515	ve00	-24.5	-24.3	0.0	0.0	-21.4	24	-45.4
80	5600	ve00	-9.5	-8.9	0.1	0.1	-6.2	24	-30.2
80	5680	ve00	-13.4	-12.9	0.0	0.1	-10.1	24	-34.1