



Appendix A

Transmitter Output Power According to FCC Part 2.1046 & Part24.232



Conducted Power of Transmitter

TEST CONDITIONS		RF Output Power (Conducted)					
		Channel512(L)		Channel661(M)		Channel810(H)	
		1850.2MHz		1880.0MHz		1909.8MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		29.72	33	29.75	33	29.67	33
TM2		25.45	33	25.26	33	25.17	33
TEST CONDITIONS		Channel9262(L)		Channel9400(M)		Channel9538(H)	
		1852.4MHz		1880.0MHz		1907.6MHz	
		dBm		dBm		dBm	
		T_{nom} / V_{nom}		Measured	Limit	Measured	Limit
TM3		22.38	33	22.31	33	22.23	33
TM4	Case1	22.13	33	22.25	33	22.05	33
	Case2	22.17	33	22.13	33	22.09	33
	Case3	21.81	33	21.92	33	21.78	33
	Case4	21.85	33	21.98	33	21.87	33
TM5	Case1	21.57	33	21.73	33	21.67	33
	Case2	20.19	33	20.14	33	20.15	33
	Case3	20.82	33	20.61	33	20.68	33
	Case4	20.78	33	20.49	33	20.37	33
	Case5	21.61	33	21.78	33	21.69	33



Peak-to-Average Ratio

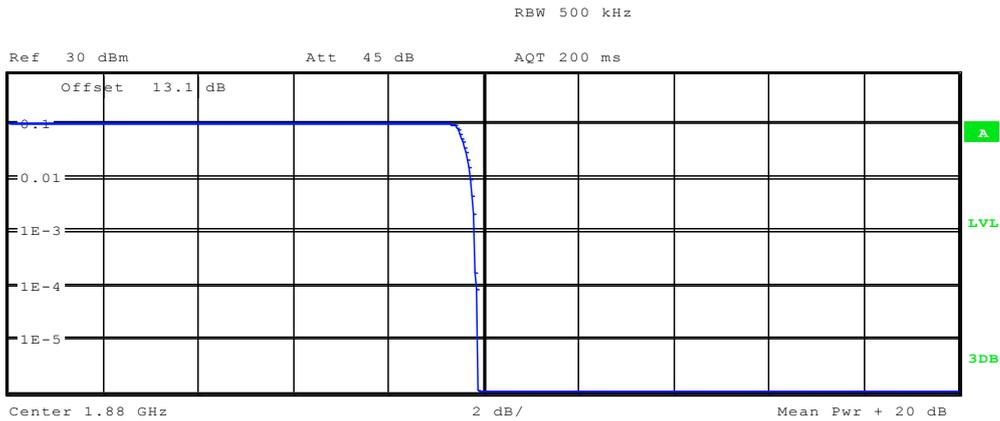
TEST CONDITIONS		Peak-to-Average Ratio					
		Channel512(L)		Channel661(M)		Channel810(H)	
		1850.2MHz		1880.0MHz		1909.8MHz	
		dB		dB		dB	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		9.67	13	9.84	13	9.73	13
TM2		12.69	13	12.57	13	12.64	13
TEST CONDITIONS		Channel9262(L)		Channel9400(M)		Channel9538(H)	
		1852.4MHz		1880.0MHz		1907.6MHz	
		dB		dB		dB	
		T_{nom} / V_{nom}		Measured	Limit	Measured	Limit
TM3		3.08	13	3.14	13	3.11	13
TM4	Case1	2.94	13	3.09	13	3.03	13
	Case2	2.96	13	3.06	13	2.93	13
	Case3	2.97	13	2.93	13	2.96	13
	Case4	2.87	13	2.91	13	2.81	13
TM5	Case1	3.02	13	3.04	13	3.02	13
	Case2	2.84	13	2.97	13	3.09	13
	Case3	2.91	13	2.86	13	2.89	13
	Case4	3.01	13	2.94	13	2.93	13
	Case5	3.07	13	2.84	13	2.91	13



Test Plot of Peak-to-Average Ratio

Note: All relevant operation modes have been tested, and the worst case Plot is included in this report.

TM1

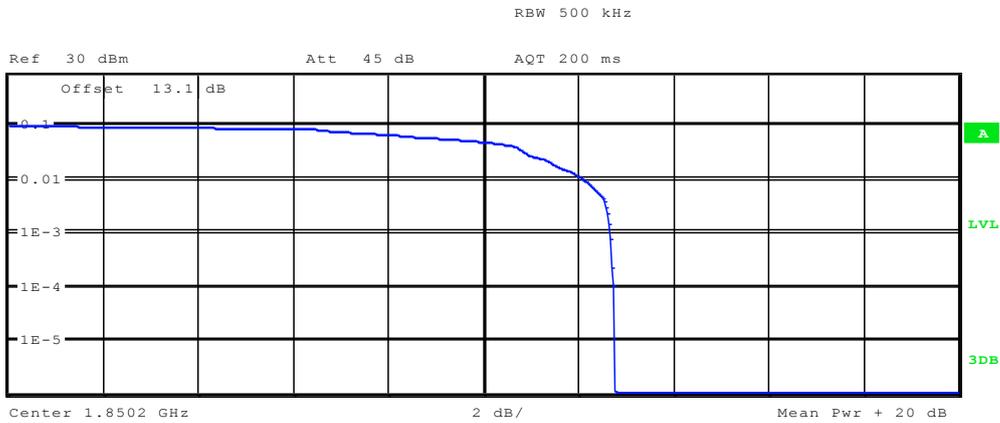


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 424kHz

Trace 1	
Mean	20.13 dBm
Peak	30.02 dBm
Crest	9.89 dB
10 %	9.42 dB
1 %	9.74 dB
.1 %	9.84 dB
.01 %	9.87 dB



TM2



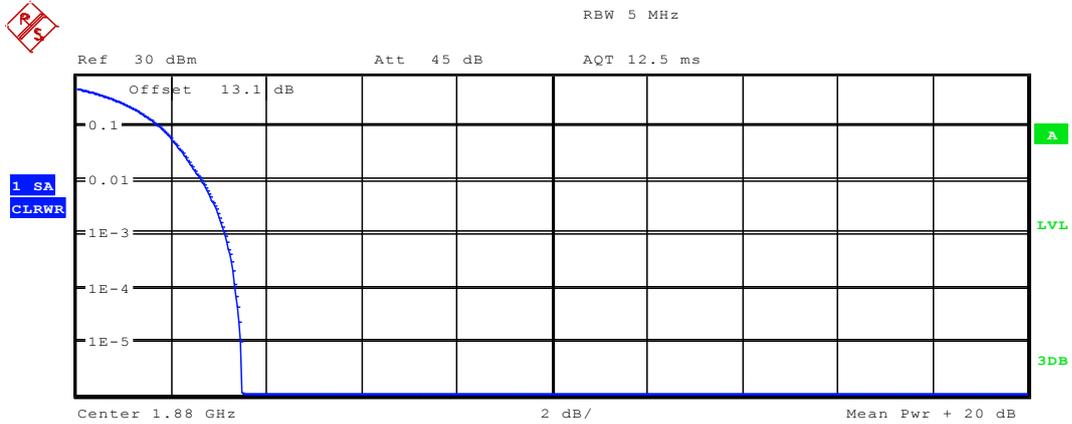
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 424kHz

Trace 1

Mean	15.63	dBm
Peak	28.39	dBm
Crest	12.76	dB
10 %	2.72	dB
1 %	12.12	dB
.1 %	12.69	dB
.01 %	12.76	dB



TM3/ TM4/ TM5



Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 7.1MHz

Trace 1	
Mean	21.95 dBm
Peak	25.43 dBm
Crest	3.48 dB
10 %	1.76 dB
1 %	2.63 dB
.1 %	3.14 dB
.01 %	3.33 dB



Effective Isotropic Radiated Power of Transmitter (EIRP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP)	FCC limit [dBm]	Result
							[dBm]		
TM1	1850.2	32.32	Horn Ant.	28.85	4.5	1	32.35	33	Pass
TM1	1880.0	32.35	Horn Ant.	28.81	4.5	1	32.31	33	Pass
TM1	1909.8	32.27	Horn Ant.	28.42	4.8	1	32.22	33	Pass
TM2	1850.2	28.05	Horn Ant.	24.59	4.5	1	28.09	33	Pass
TM2	1880.0	27.86	Horn Ant.	24.33	4.5	1	27.83	33	Pass
TM2	1909.8	27.77	Horn Ant.	23.92	4.8	1	27.72	33	Pass
TM3	1852.4	24.98	Horn Ant.	21.44	4.5	1	24.94	33	Pass
TM3	1880.0	24.91	Horn Ant.	21.43	4.5	1	24.93	33	Pass
TM3	1907.6	24.83	Horn Ant.	21.07	4.8	1	24.87	33	Pass

Note: a, For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

-----The END-----