

Radiated Harmonic Emissions (Sec. 2.993)

10/23/98

Primayer
Radio ModuleK. Corpuz
Site A

FCC ID: OABST450

F(MHz)	Level (dBuV)	AF (dB)	CL (dB)	Amp (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dBuV/m)
fo=458.55 27 dBm output							
917.1NF	30	42.7	0.6	-25	48.3	82.2	-33.9
1375.65NF	30	39.0	0.9	-25	44.9	82.2	-37.3
1834.2NF	32	27.0	1.5	-35	25.5	82.2	-56.7
2292.75NF	43	28.0	2.0	-35	38.0	82.2	-44.2
2751.3NF	44	30.0	2.0	-35	41.0	82.2	-41.2
3209.85NF	46	30.8	2.4	-35	44.2	82.2	-38.0
3668.5NF	39	34.1	2.8	-35	40.9	82.2	-41.3

to 4585.5 MHz: all emissions more than 30 dB below limit

Attenuation at least $43 + 10\log(P_w)$ dB from carrierMin Attenuation = $(10\log P_w + 30) - (43 + 10\log P_w) = -13 \text{ dBm} = .00005 \text{ watts}$ $E = (P_w \cdot 30 \cdot G)^{.5/d}$, at 3 meters: $E = .01291 \text{ V/m} = 12,925 \text{ uV/m} = 82.2 \text{ dBuV/m}$ **Analyzer:** HP8593EM**Antenna:** EMCO 3146, 200 - 1000 MHz**Antenna:** ARA DRG-118/A, 1-18 GHz