

Exhibit 10: Measurements Demonstrating Conformance to 97.307 and 97.317

External Radio Frequency Power Amplifier OM2000A+

Model 2000A+

Array Solutions

2611 North Beltline Rd Suite 109 Sunnyvale, Texas 75182 USA

Tel: 214 954 7140 fax: 214 954 7142

E-mail: info@arraysolutions.com

Exhibit 10 Page 1 of 3

Measurements Demonstrating Conformance to 97.307 and 97.317

97.317(a)(1)(2)&(3) & 97.317(b). Spurious Emissions per 97.307(d) and Gain versus Frequency.

Results reflect amplifier as shipped with 26 to 28MHz Bands disabled.

Amplifier under test operated at frequency f1 with CW (A1A) excitation. Spectrum analyzer ETL with a 20dB input attenuator was used to observe all frequencies, from f1 through at least 10f1 for harmonic and spurious emissions.

Power Gair	Spurious Emmisions per 97.307d							
Frequenc y f1, MHz	Input Power, W	Output Power, W	Amplifier Gain, dB	2f1, dBc	3f1, dBc	4f1, dBc	5-10f1, dBc worst case	
1,850	72	1500	13,19	52,3	76,0	81,8	85,0	
3,750	71	1500	13,25	51,7	77,2	82,7	85,0	
7,150	71	1500	13,25	58,0	79,3	81,1	85,0	
10,125	73	1500	13,13	58,7	81,7	83,3	85,0	
14,175	71	1500	13,25	62,1	81,7	84,2	85,0	
18,100	70	1500	13,31	62,9	78,3	80,1	85,0	
21,225	64	1500	13,70	63,2	80,4	83,2	85,0	
24,930	57	1500	14,20	56,8	73,7	81,5	85,0	
28,500	51	1500	14,69	62,7	72,2	78,9	82,0	
50,200	61	1500	13,91	71,9	74,7	78,3	85,0	
Amplifier was not capable of operation on any frequency or frequencies between 26 and 28MHz as measured at the points below per 97.317-(a) (3).								
26,000	50	48,8	-0,11					
27,000	50	48,7	-0,11					
28,000	50	48,5	-0,13					

Exhibit 10 Page 2 of 3

97.307(a)(b). Intermodulation & Linearity

Exciter operating in SSB mode with two equal-tone audio applied to the microphone input. Amplifier under test driven to 1500W PEP output at the center of the band with 60W PEP input power.

Inter-modulation in dB relative to 1500W PEP per 97.307(a)(b)									
_					D11 and				
Order:	D3	D5	D7	D9	higher				
Freq. MHz	dB	dB	dB	dB	dB				
14,200	-34,7	-46,2	-54,8	-62,3	-65				

97.317(a)(1). When the amplifier is in the "standby" or "off" positions, but still connected to the exciter, no measurable spectrum change from the normal output of the exciter is detectable with the spectrum analyzer (noise floor approximately – 115dBc) when amplifier is driven with 0 to 150 W mean RF power.

97.317(b). The amplifier possesses none of the prohibited characteristics listed in this section.

97.317(a)(2). The amplifier gain does not exceed 15 dB for any level of input signal.

Additional data: Information and data supplied by tube manufacturer concerning FU-728F tetrode is available by request from the manufacturer.

Exhibit 10 Page 3 of 3