

**Goldman Engineering Management
Auburn, CA**

Engineering Statement

This engineering statement has been prepared on behalf of Beasley Media Group, LLC. to demonstrate compliance with the spurious emissions requirements of 47C.F.R. Sections 73.317(b) through 73.317(d). All measurements were made with both frequencies (93.5mHz, and 94.3mHz) operating simultaneously through the combiner system as manufactured by Dielectric Electronics. Based upon the measurements shown below, W228DK (formerly) W299CA and existing W232CI are within compliance.

Facilities Tested

The facilities at this site include the following equipment:

1. New Dielectric 2 Channel FM Combiner, SO 2003, PN 300005175 for W228BD (93.5mHz, 0.255kW TPO), and W232CI (94.3mHz, 0.255kW TPO).
2. Existing ERI LPX-5E-HW, 5 bay, 1/2 wave spaced antenna.

Results of tests

The filters were tested prior to leaving the Dielectric and are well within compliance. Testing following installation responded well indicating all noise and spurs down to at least 79dB from the peak of carrier reference set.

The pass-band test indicated a return loss of better than 30db (1.06:1) and a bandwidth of 200kHz (out of band attenuation of >32Db). Based upon turnaround loss for the system it was inferred that the spurious emissions would be adequately attenuated.

Projected Intermodulation was calculated the inputs of both frequencies used in the combiner (See exhibit 1). Intermodulation was checked down to 5th order. There were no spurs found on those frequencies.

Based upon the above measurements it was determined that the facilities of concern are within FCC compliance.

Sincerely,



Bert Goldman
214-395-5067

Exhibit 1

Two frequency intermodulation products

Frequency 1:	93.5
Frequency 2:	94.3

Intermodulation products:

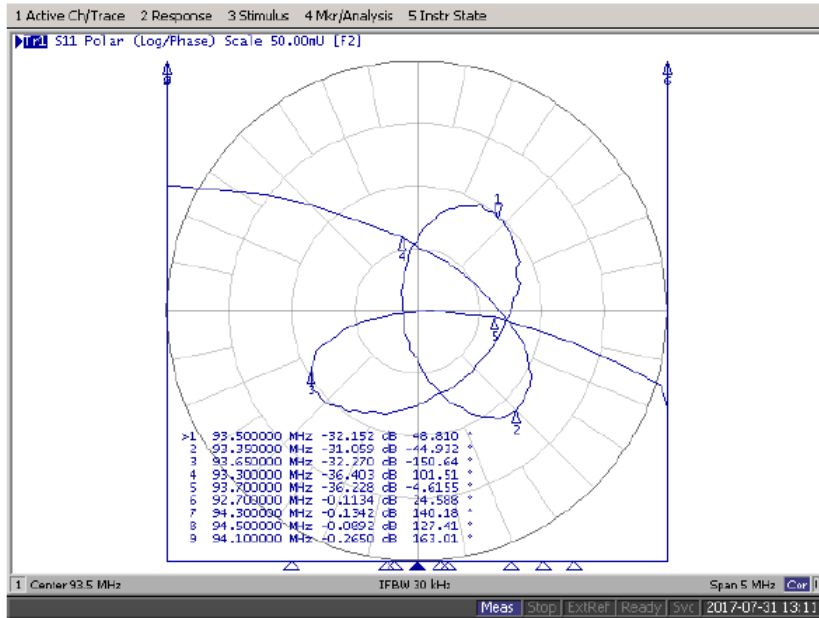
3 rd order	92.7
3 rd order	95.1
5 th order	91.9
5 th order	95.9

EXHIBIT 2- COMBINER MEASUREMENTS

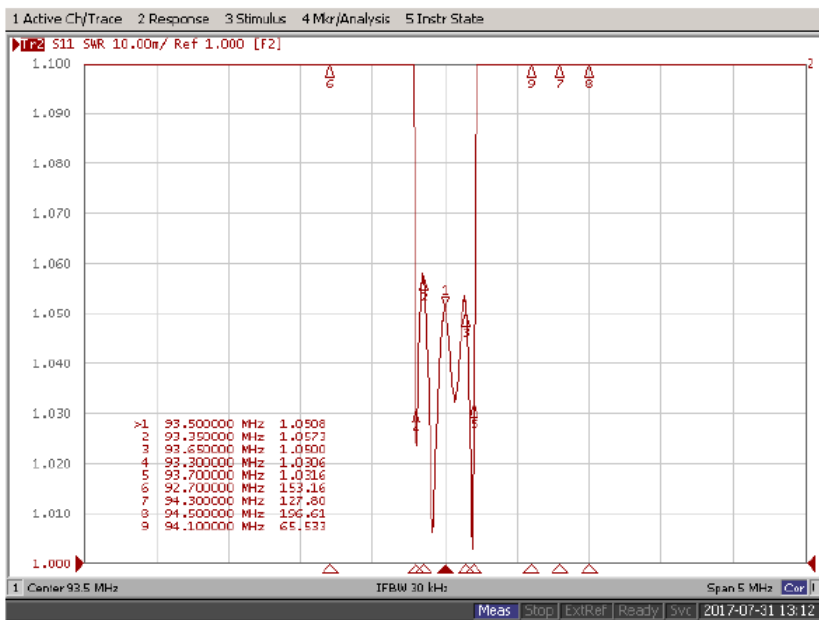
2 CH FM COMBINER 93.5 94.3

SO 2003 PN 300005175

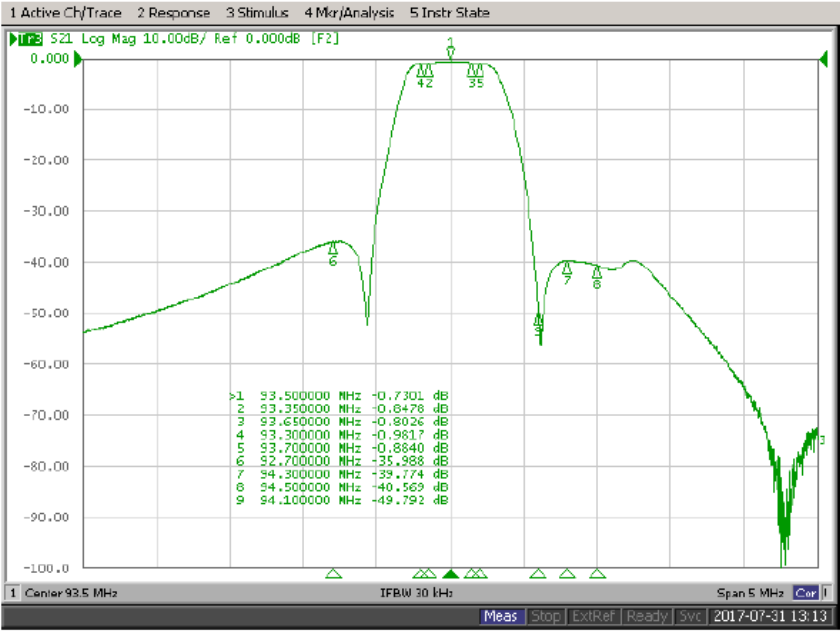
93.5 RETURNLOSS



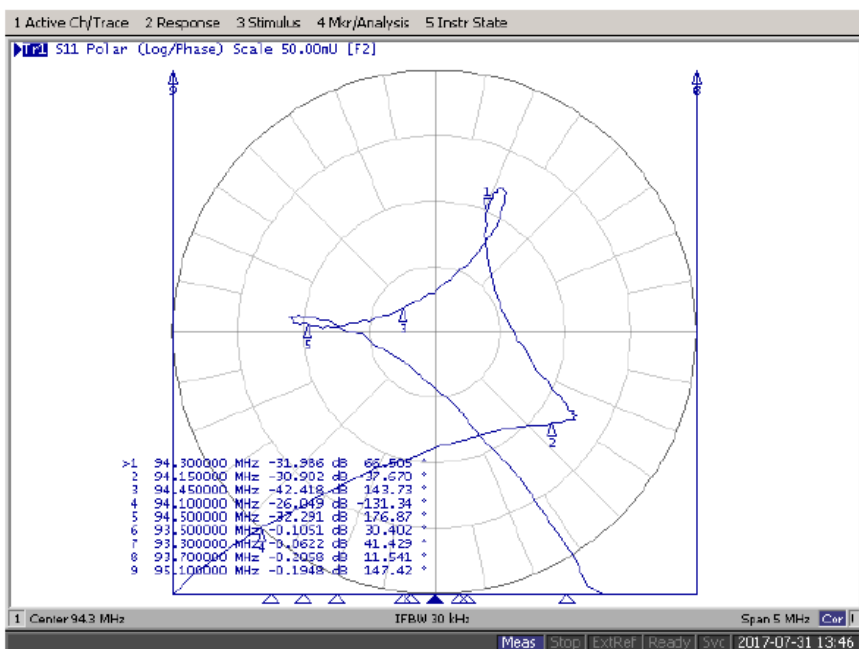
93.5 VSWR



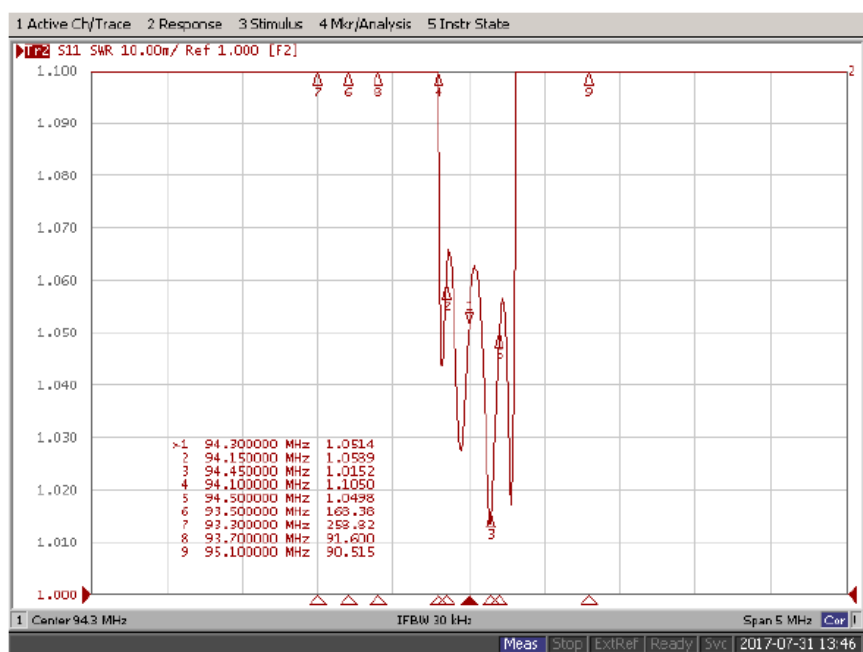
93.5 FILTER RESPONSE



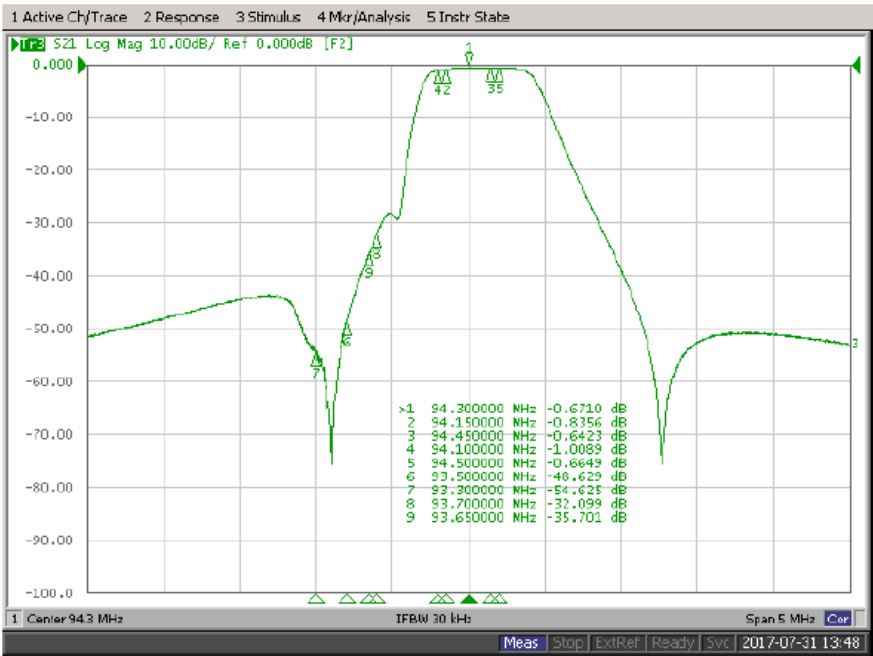
94.3 RETURN LOSS



94.3 VSWR



94.3 FILTER RESPONSE



ISOLATION INPUT TO INPUT

