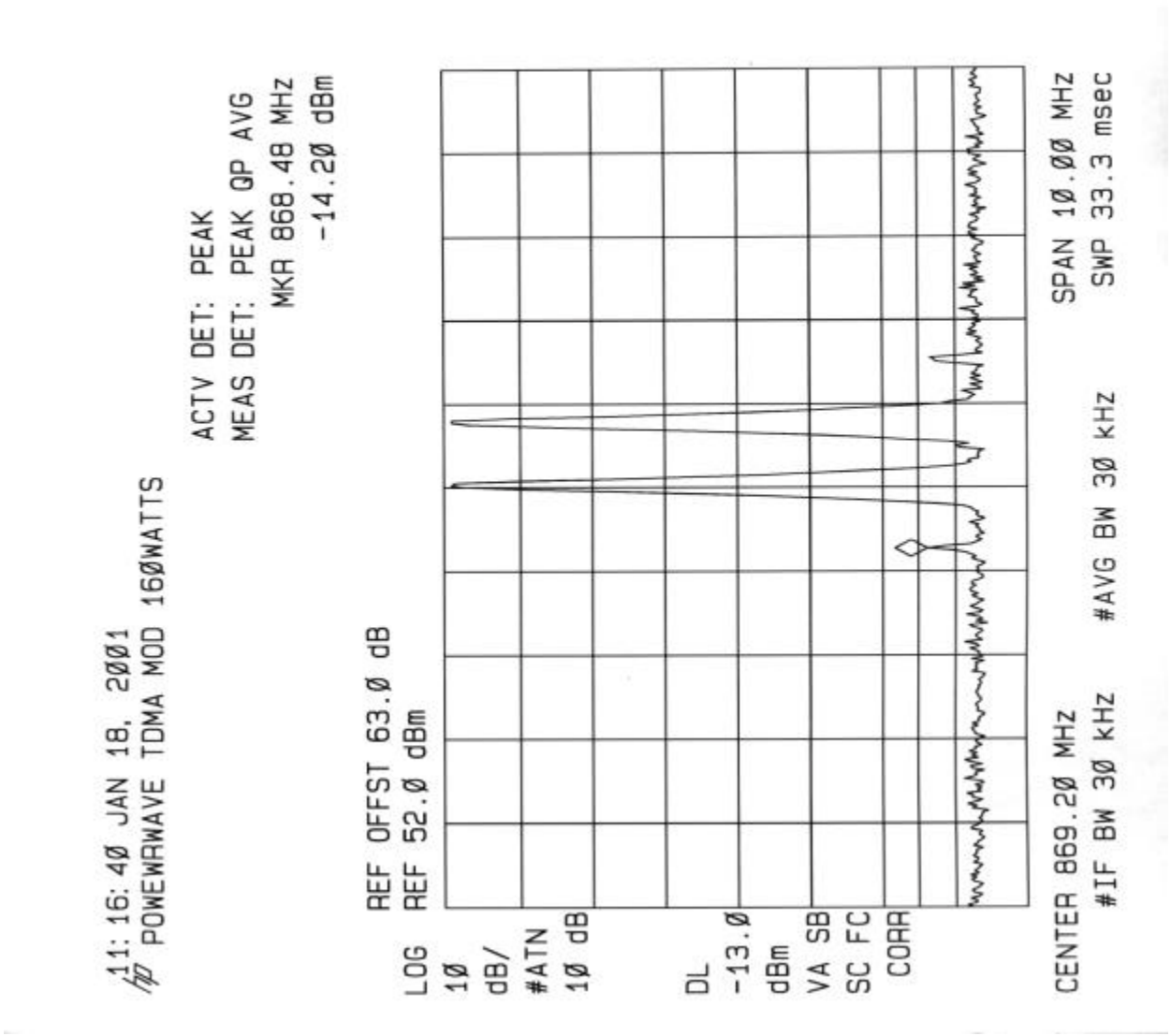
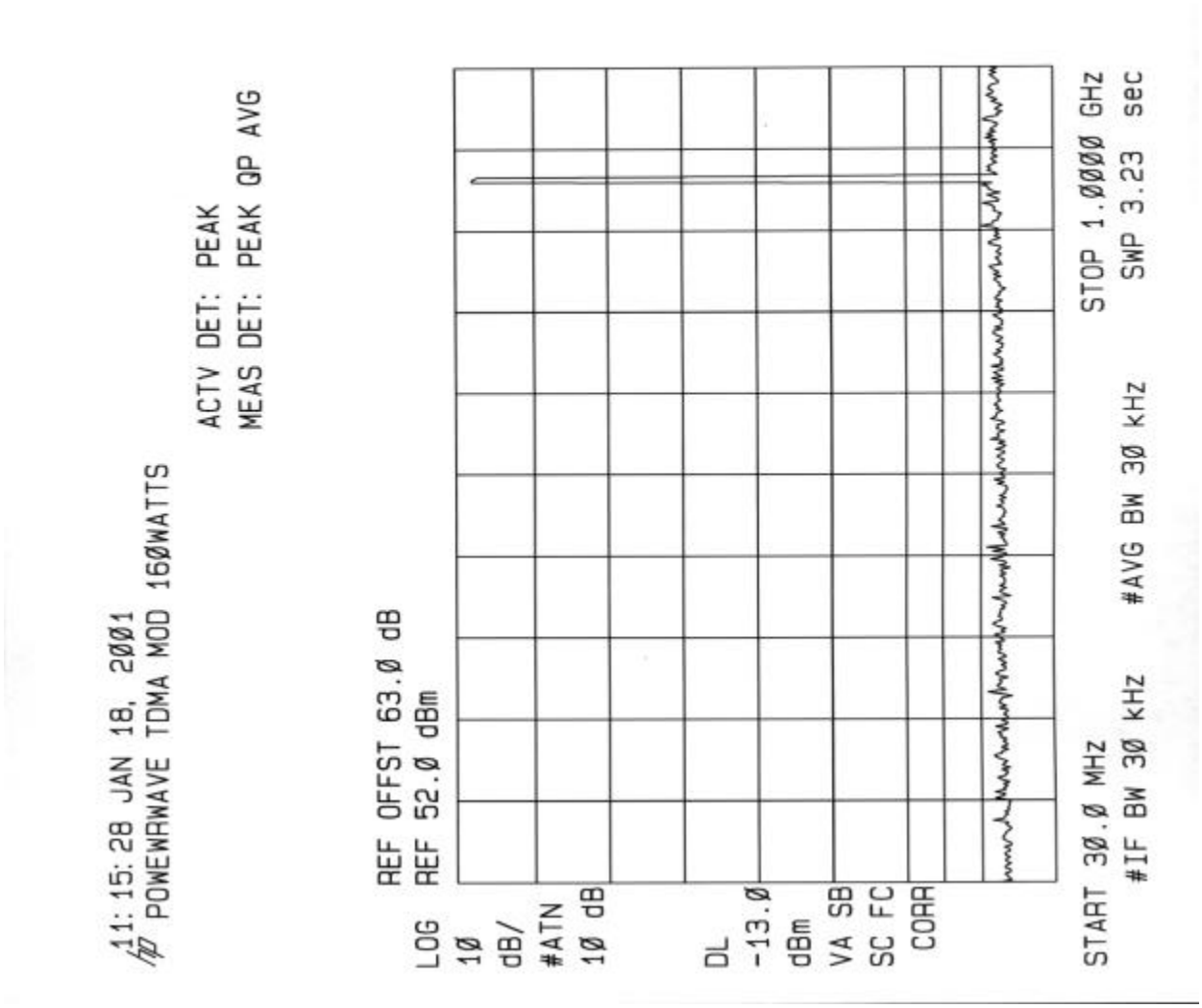
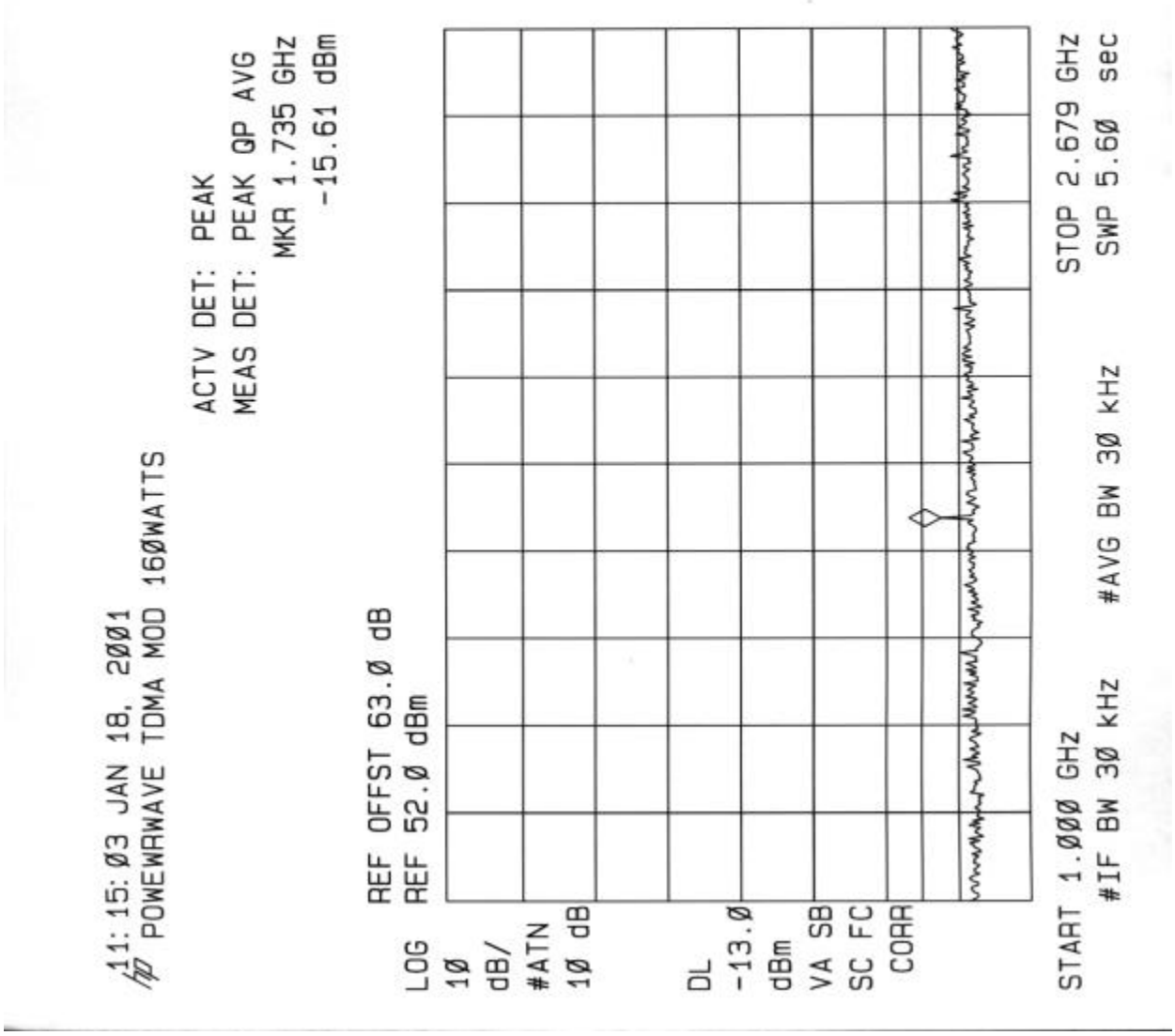


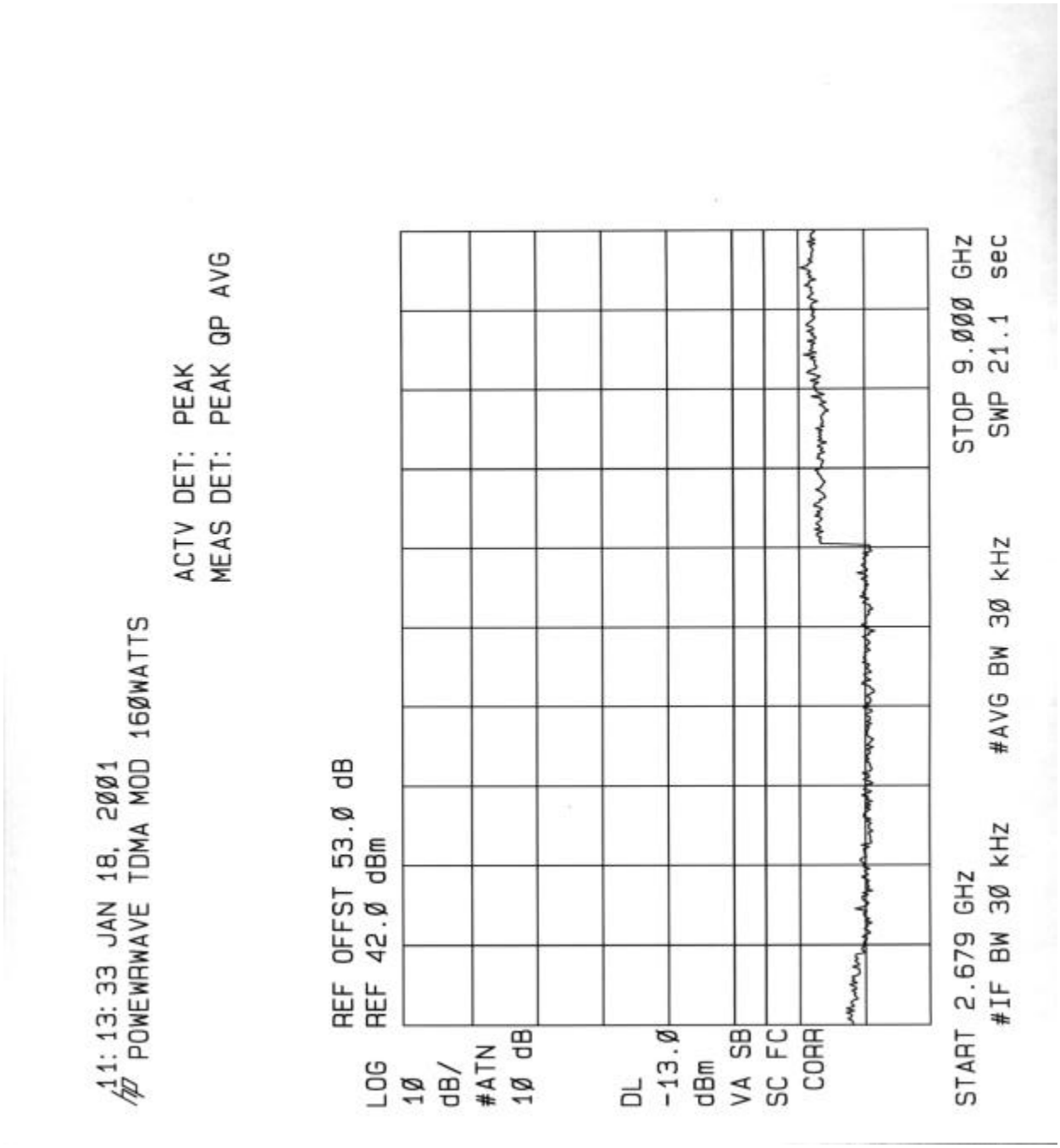
LOW END OF BAND/ OUT OF BAND
(TDMA MODULATION)



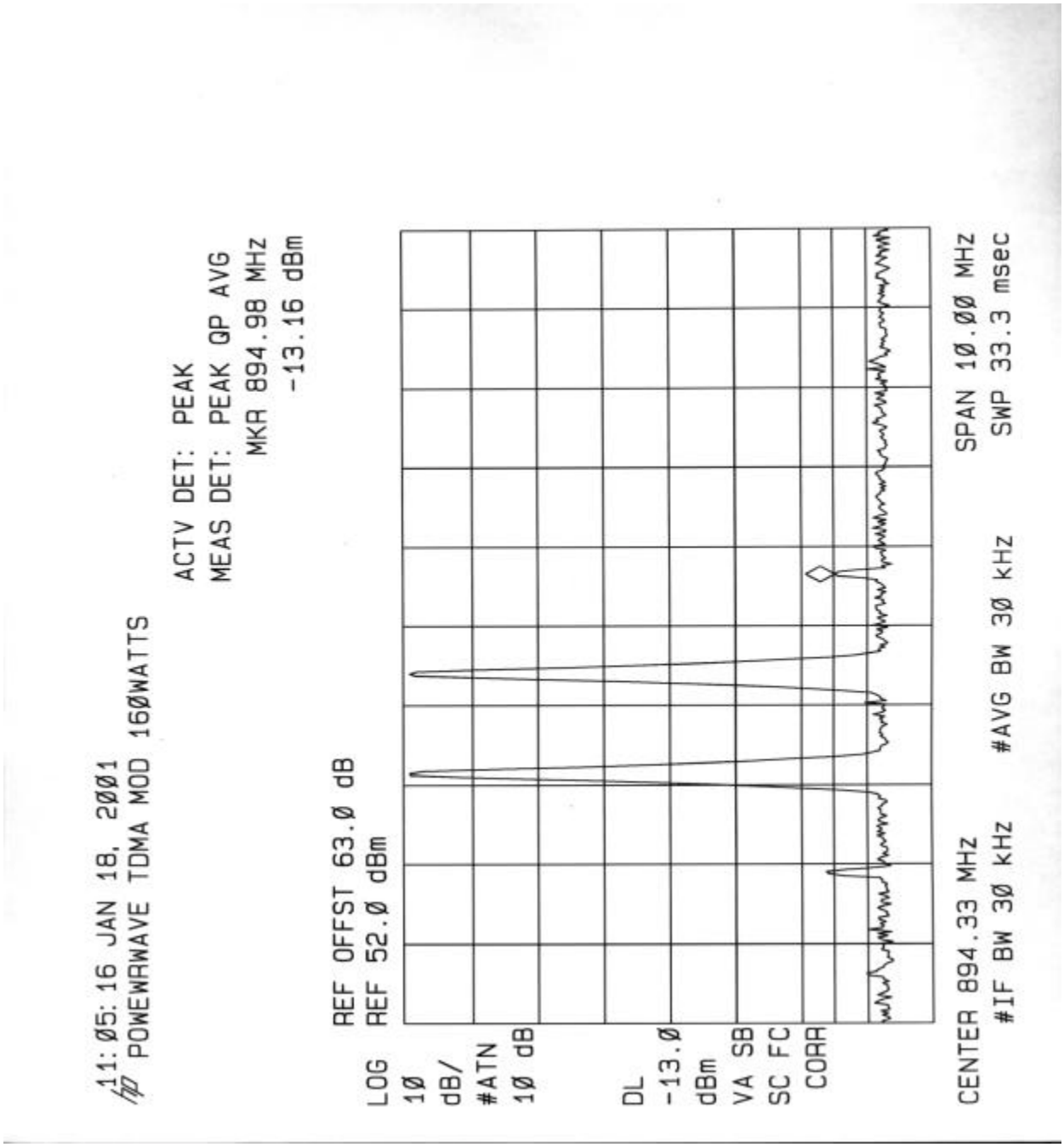
LOW END OF BAND/ OUT OF BAND
(TDMA MODULATION)



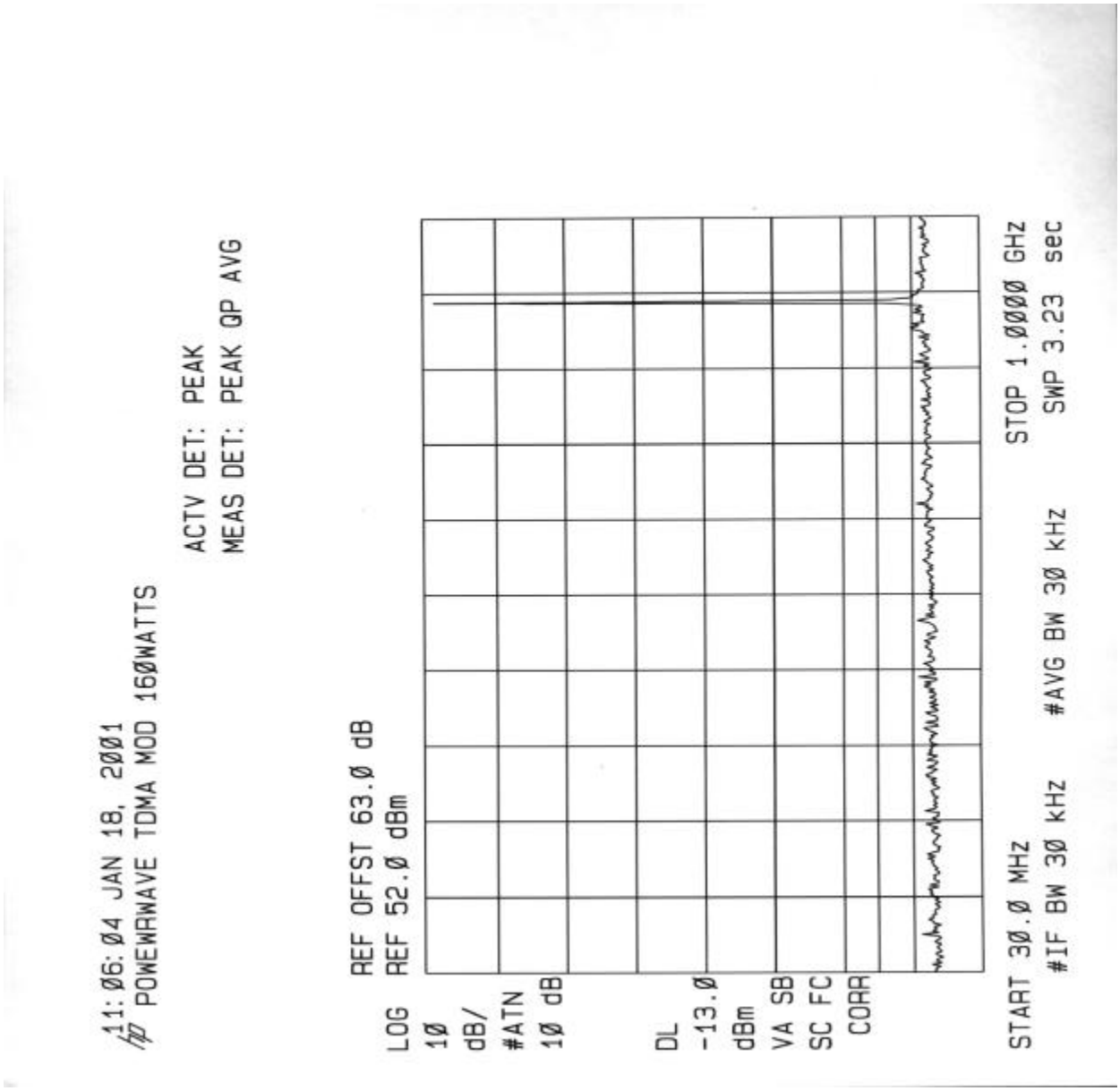
LOW END OF BAND/ OUT OF BAND
(TDMA MODULATION)



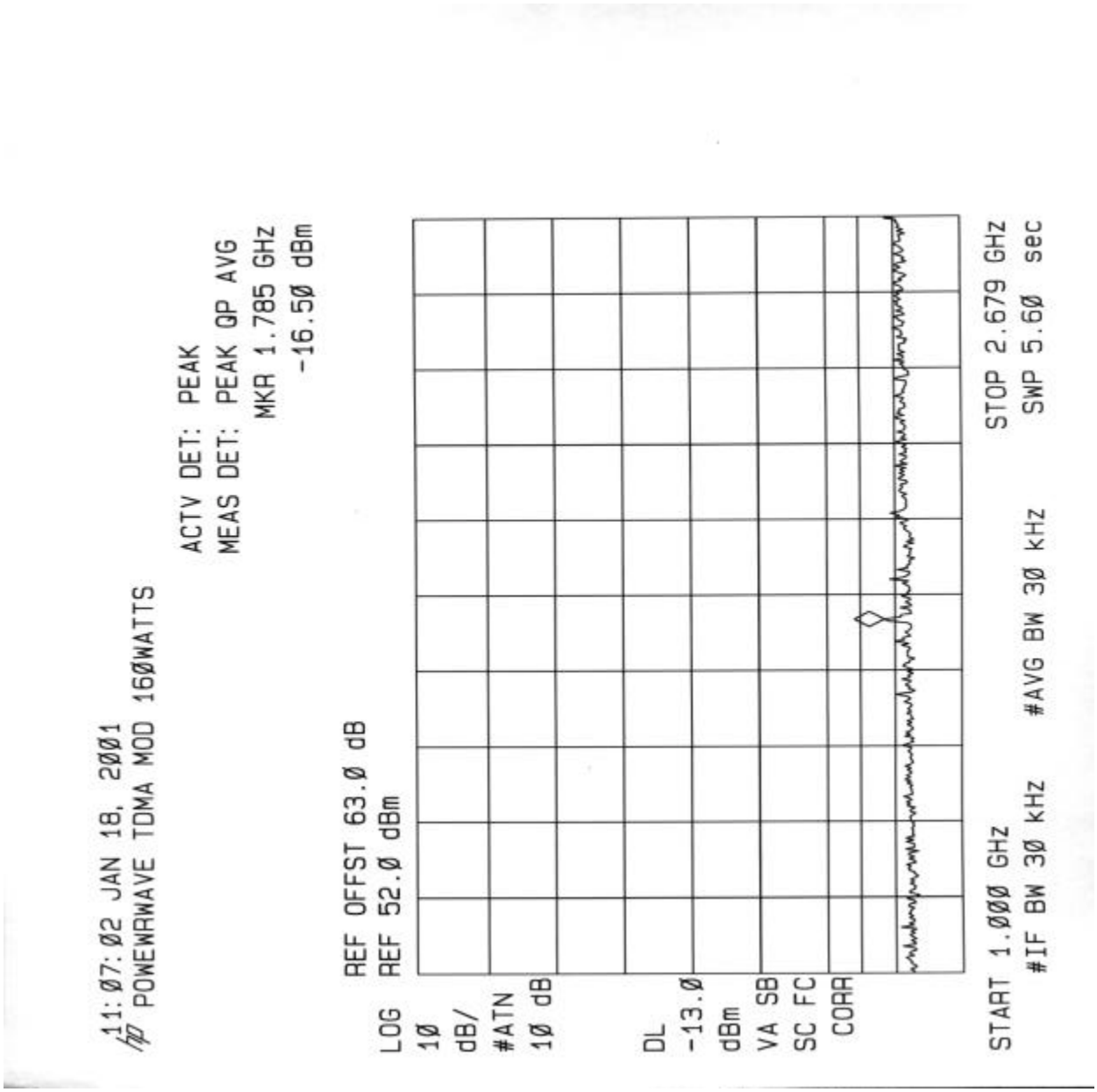
LOW END OF BAND/ OUT OF BAND
(TDMA MODULATION)



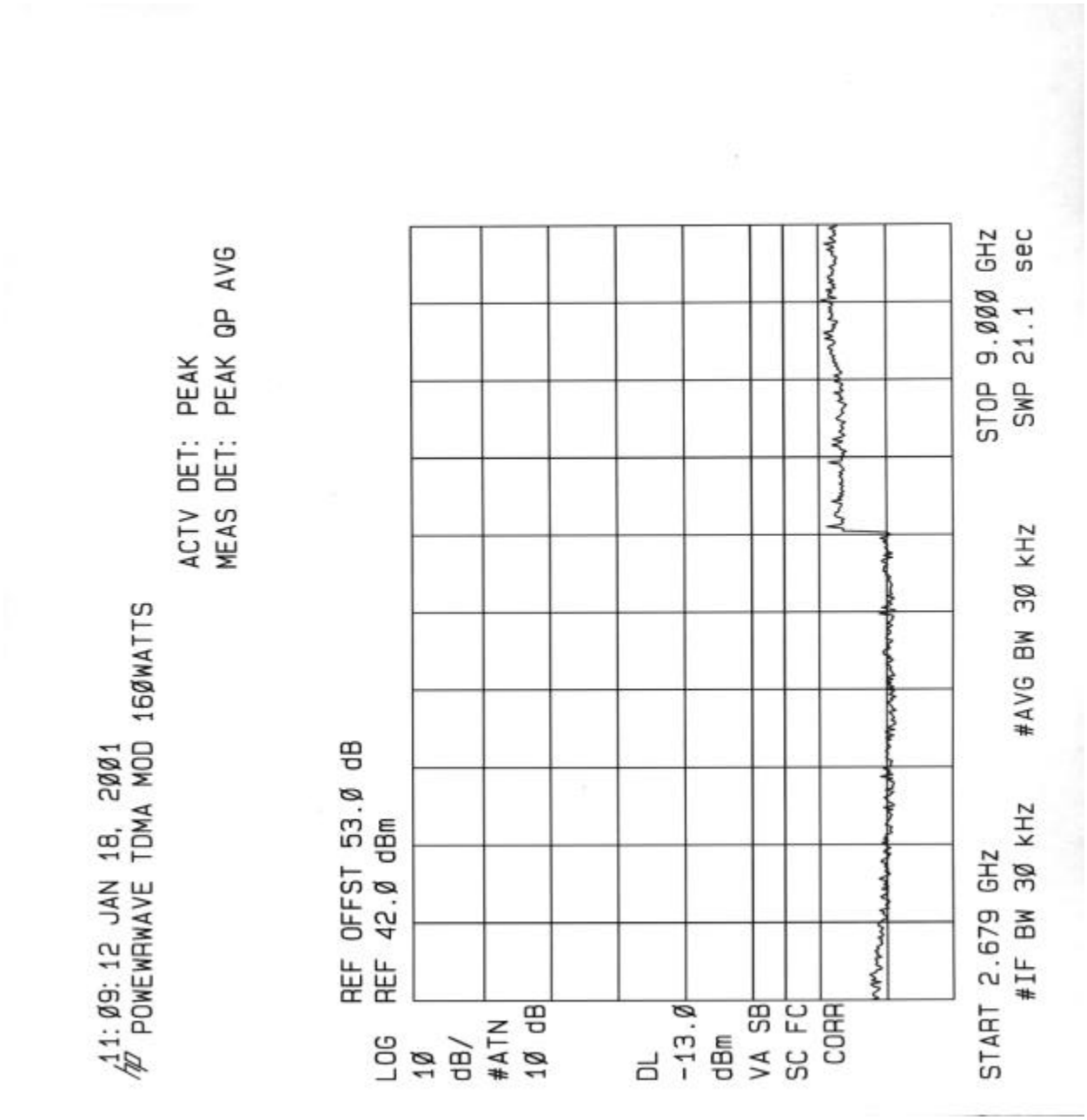
HIGH END OF BAND/ OUT OF BAND
(TDMA MODULATION)



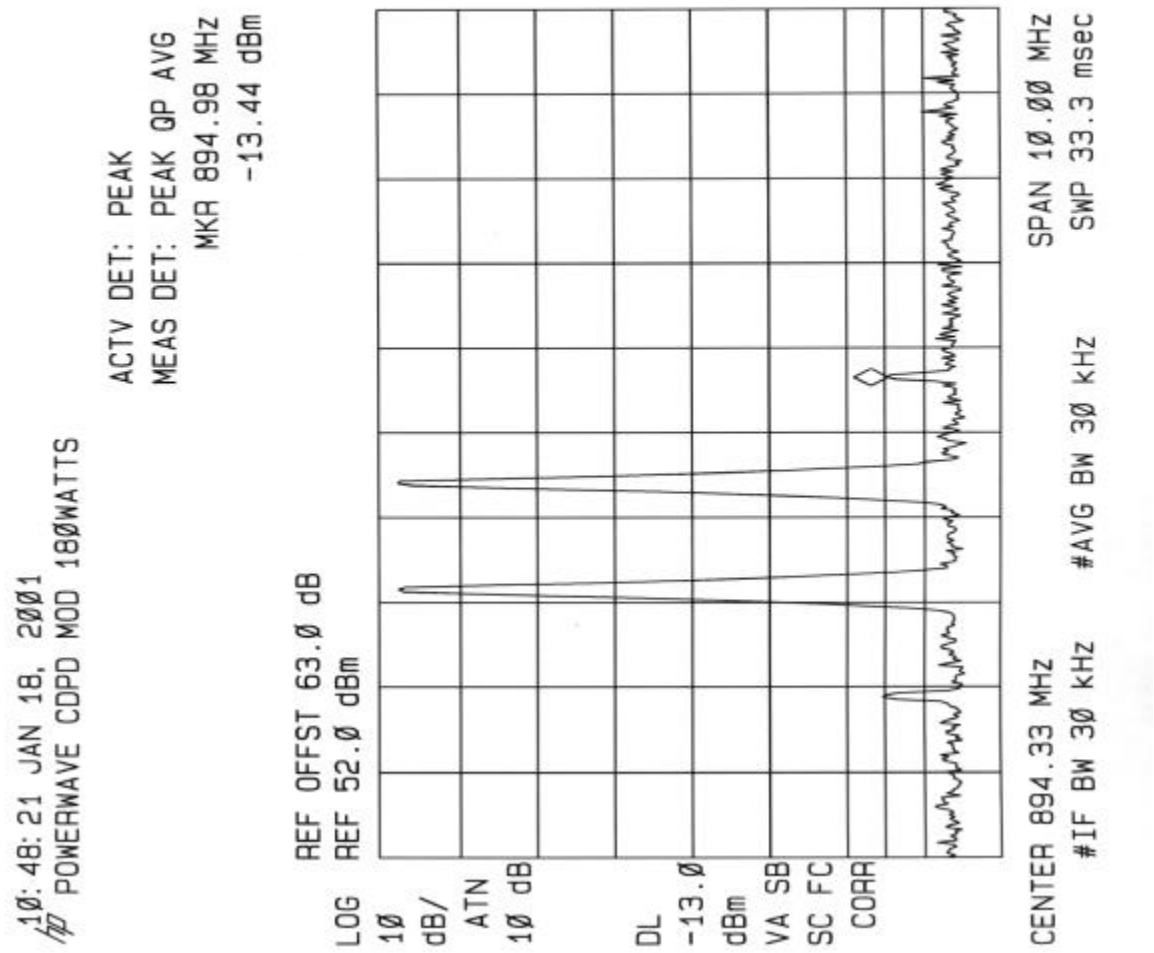
HIGH END OF BAND/ OUT OF BAND
(TDMA MODULATION)



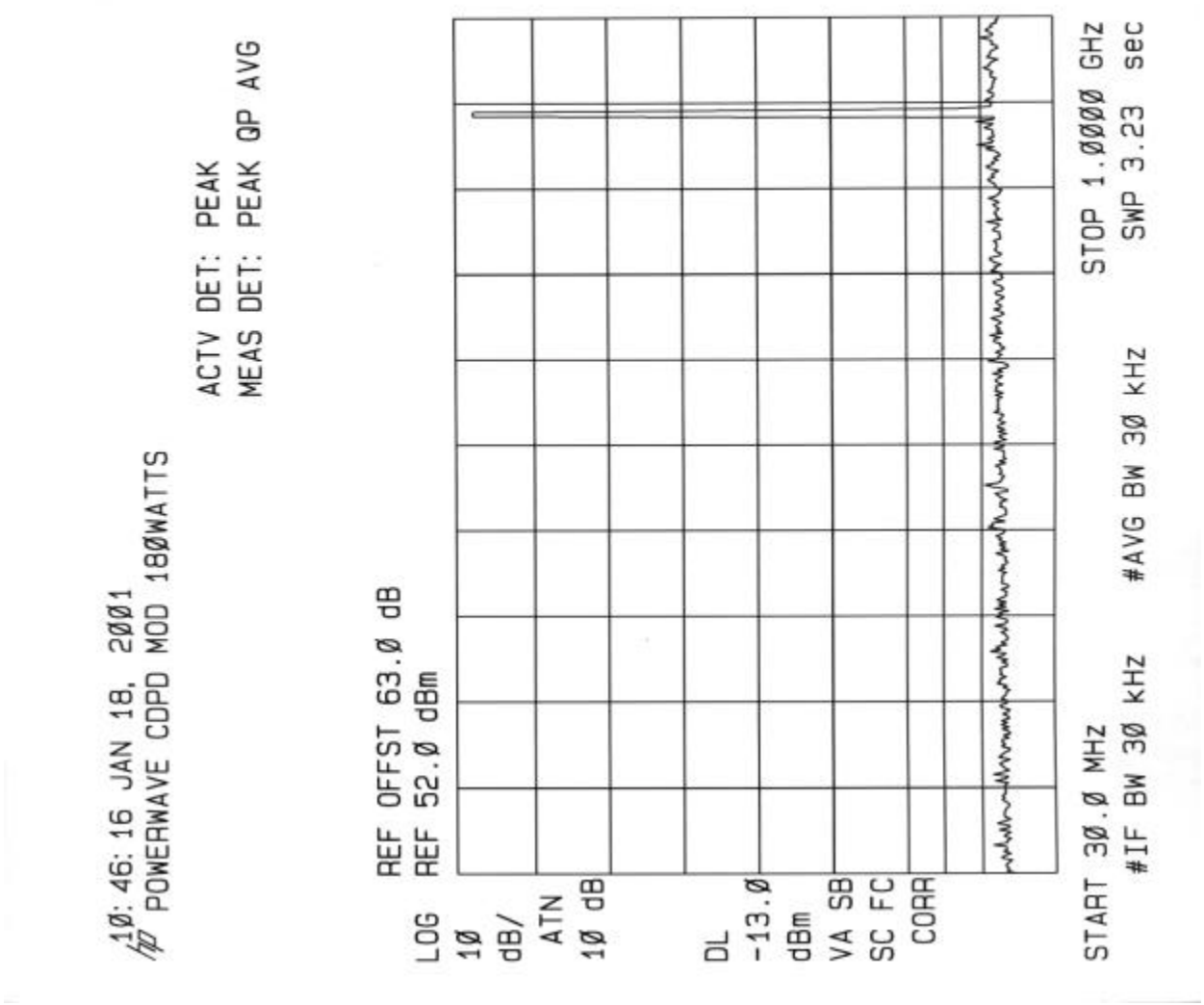
HIGH END OF BAND/ OUT OF BAND
(TDMA MODULATION)



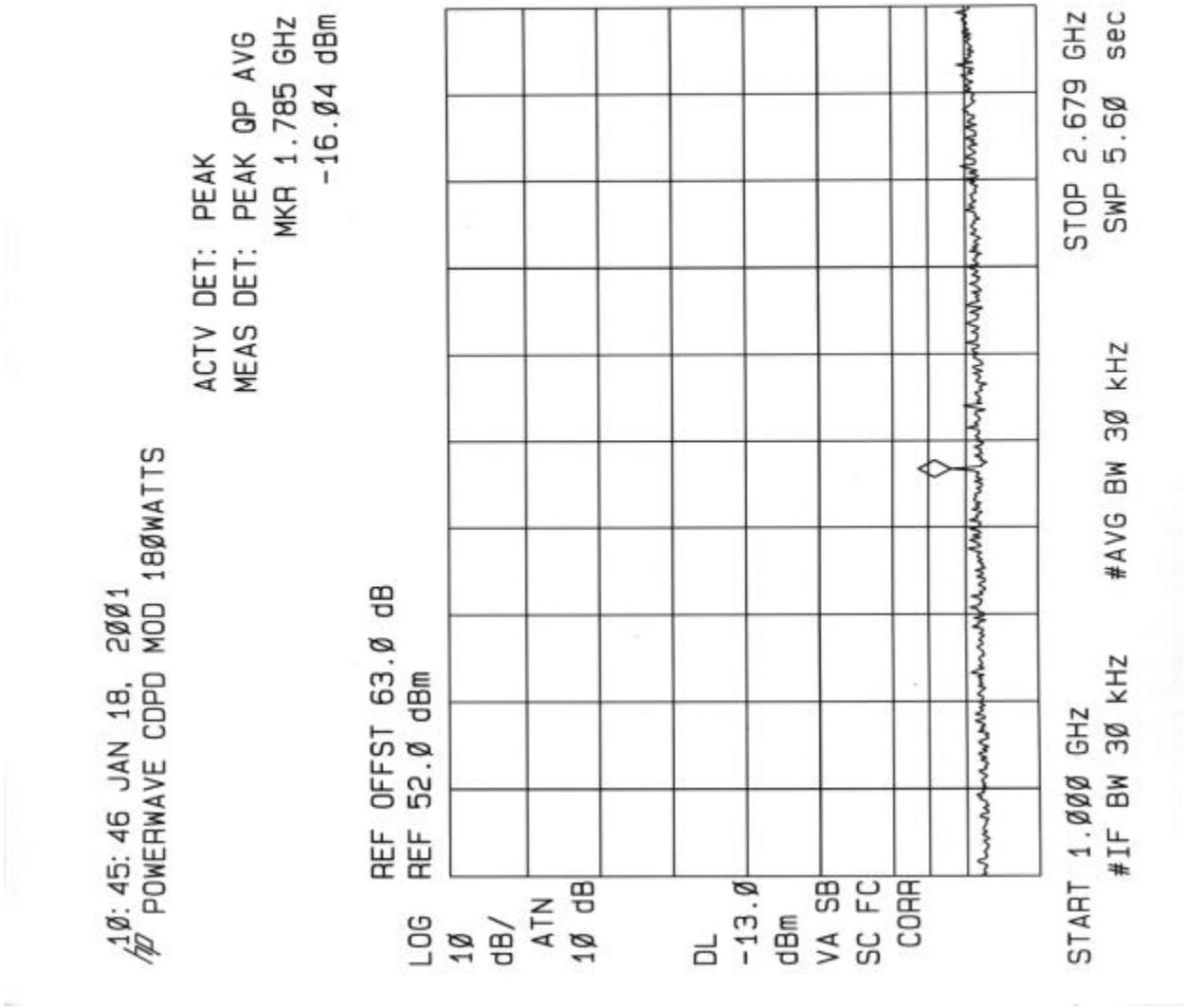
HIGH END OF BAND/ OUT OF BAND
(TDMA MODULATION)



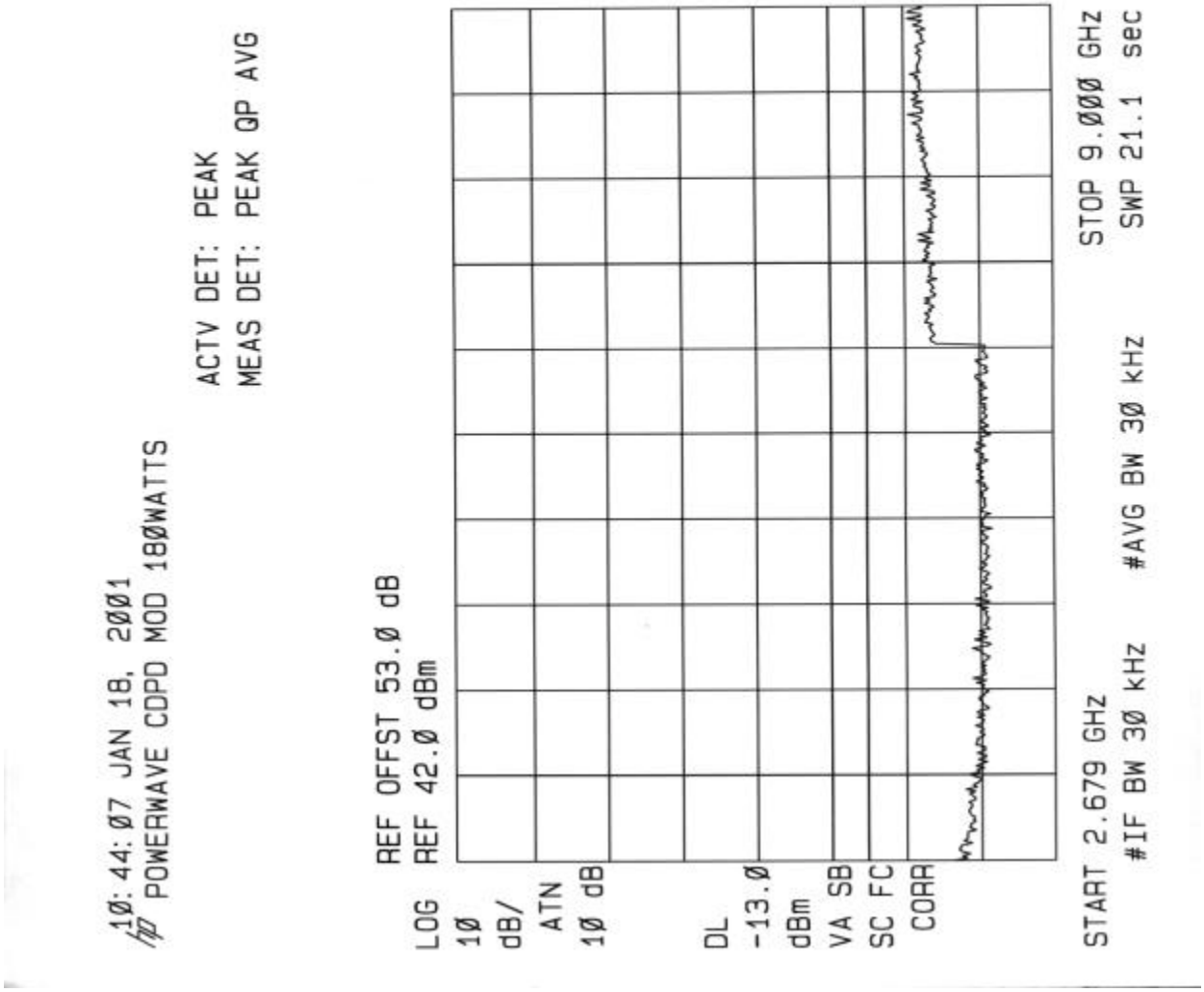
HIGH END OF BAND/ OUT OF BAND
(CDPD MODULATION)



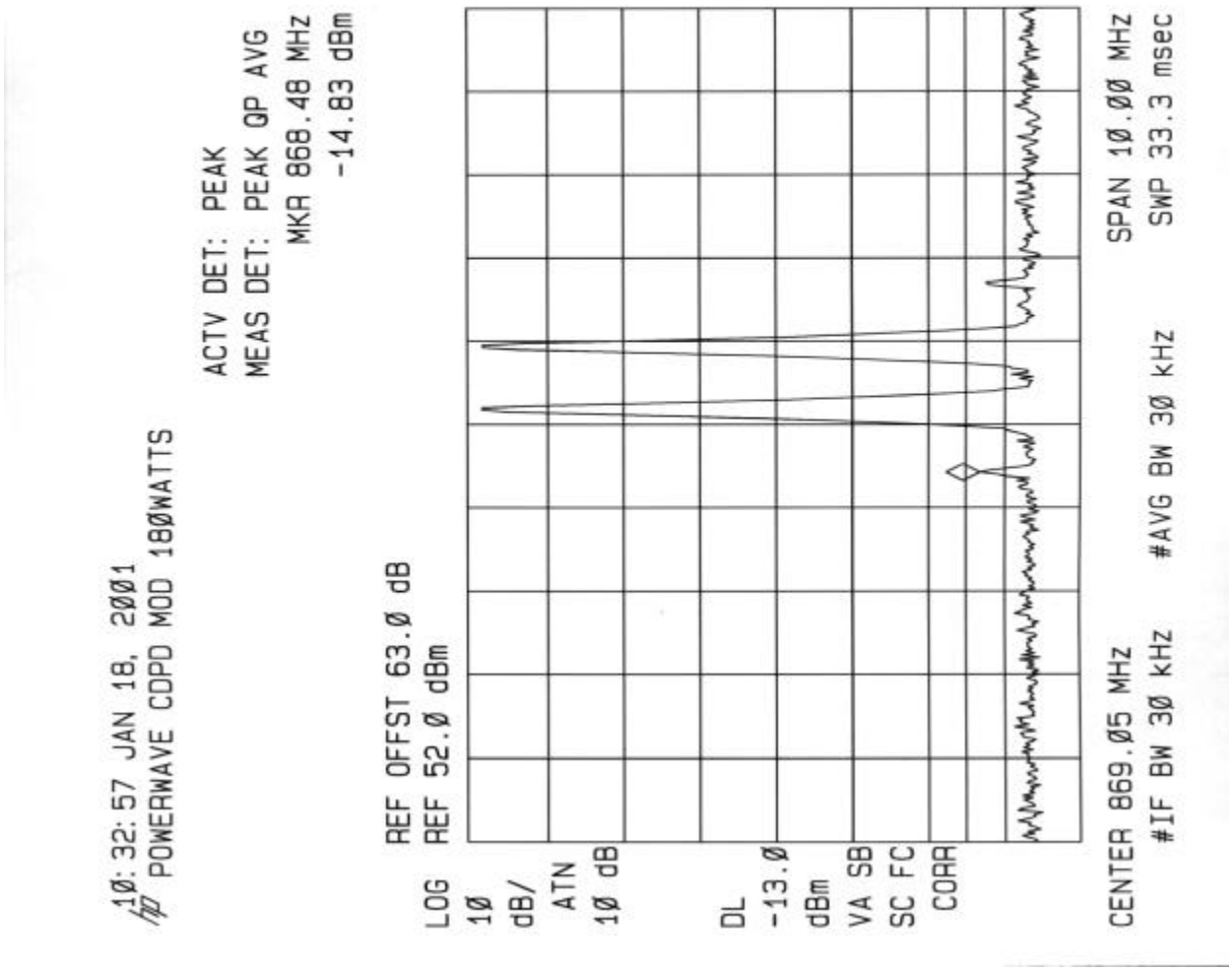
HIGH END OF BAND/ OUT OF BAND
(CDPD MODULATION)



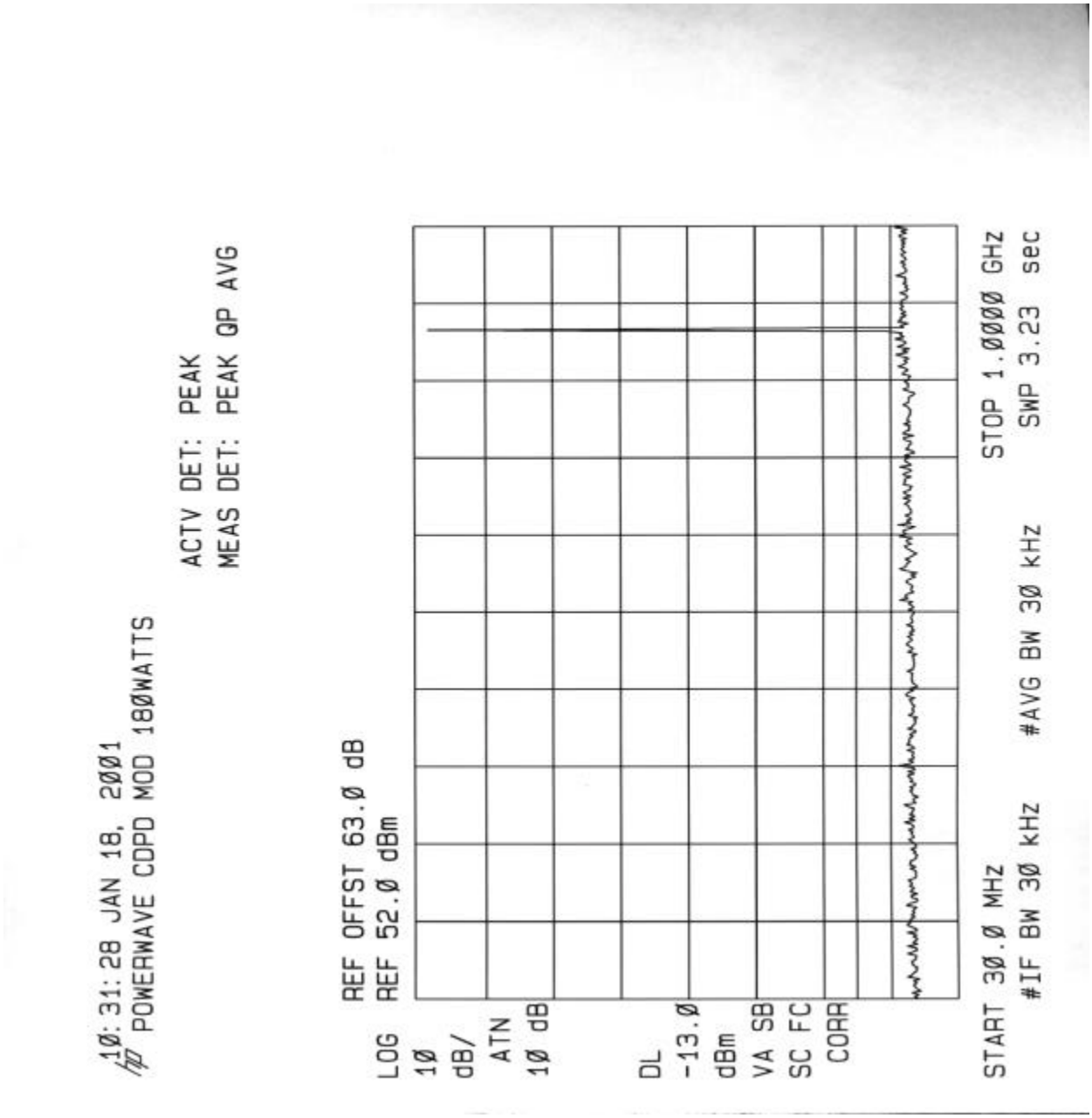
HIGH END OF BAND/ OUT OF BAND
(CDPD MODULATION)



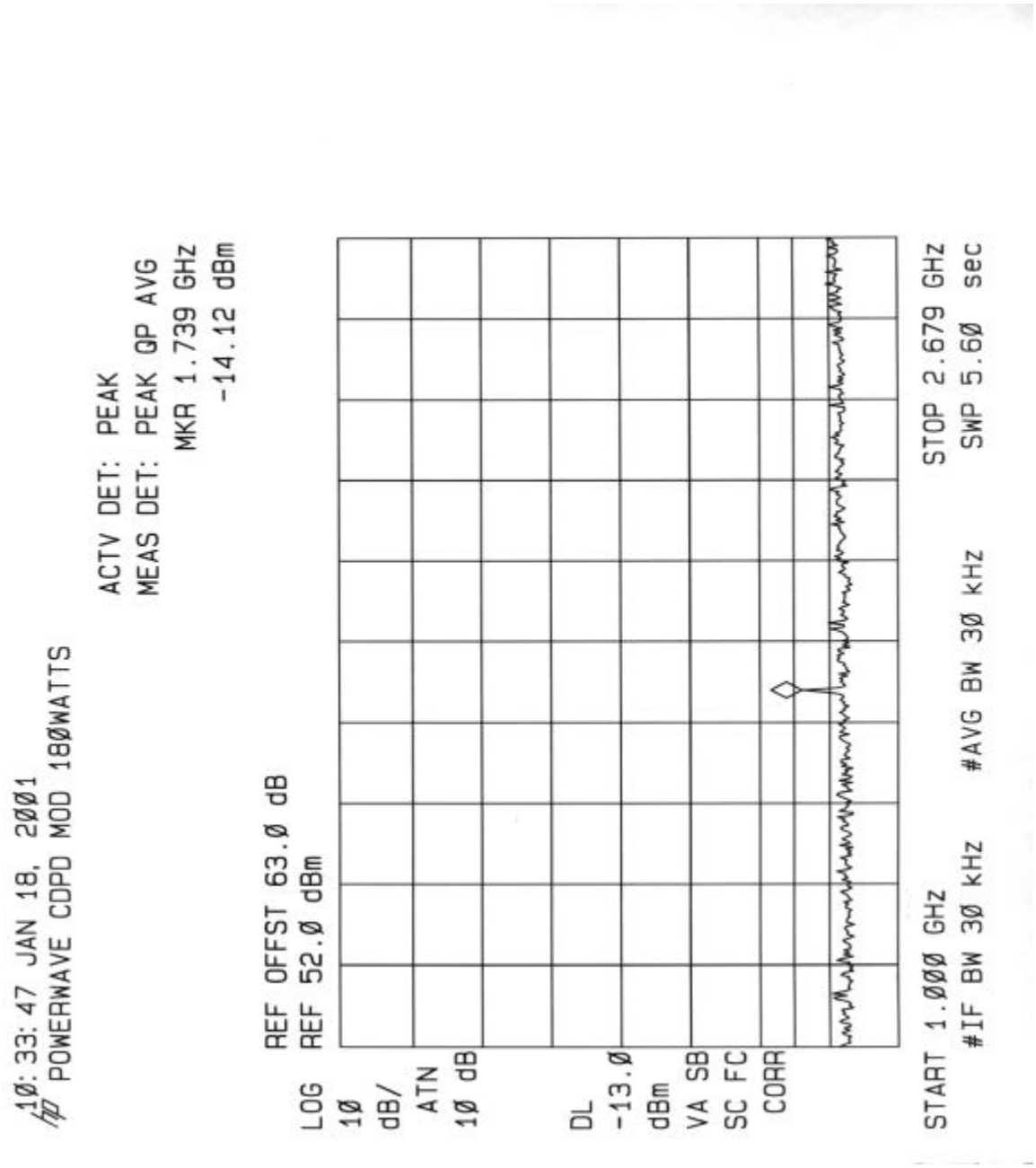
HIGH END OF BAND/ OUT OF BAND
(CDPD MODULATION)



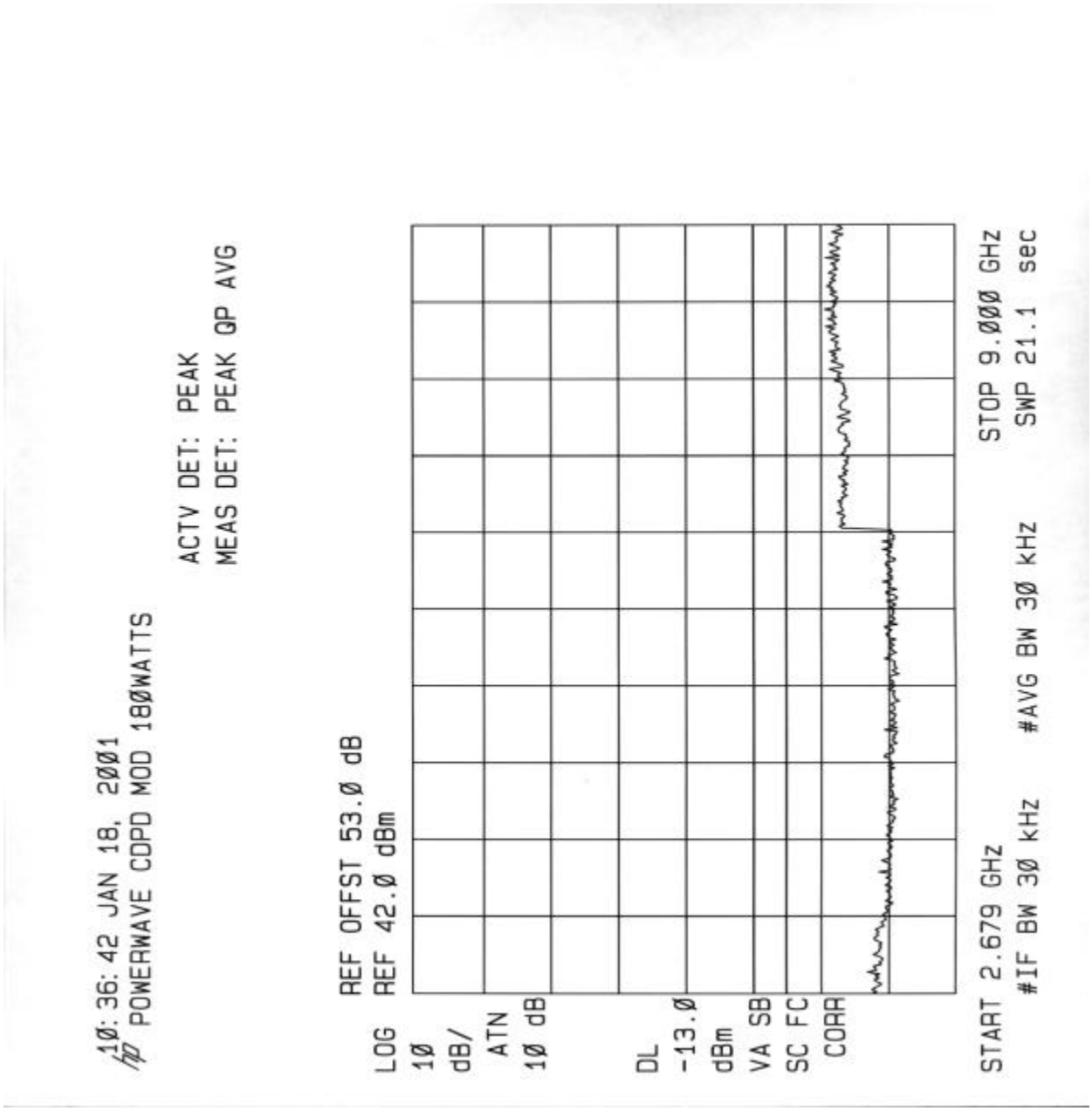
LOW END OF BAND/ OUT OF BAND
(CDPD MODULATION)



LOW END OF BAND/ OUT OF BAND
(CDPD MODULATION)



LOW END OF BAND/ OUT OF BAND
(CDPD MODULATION)

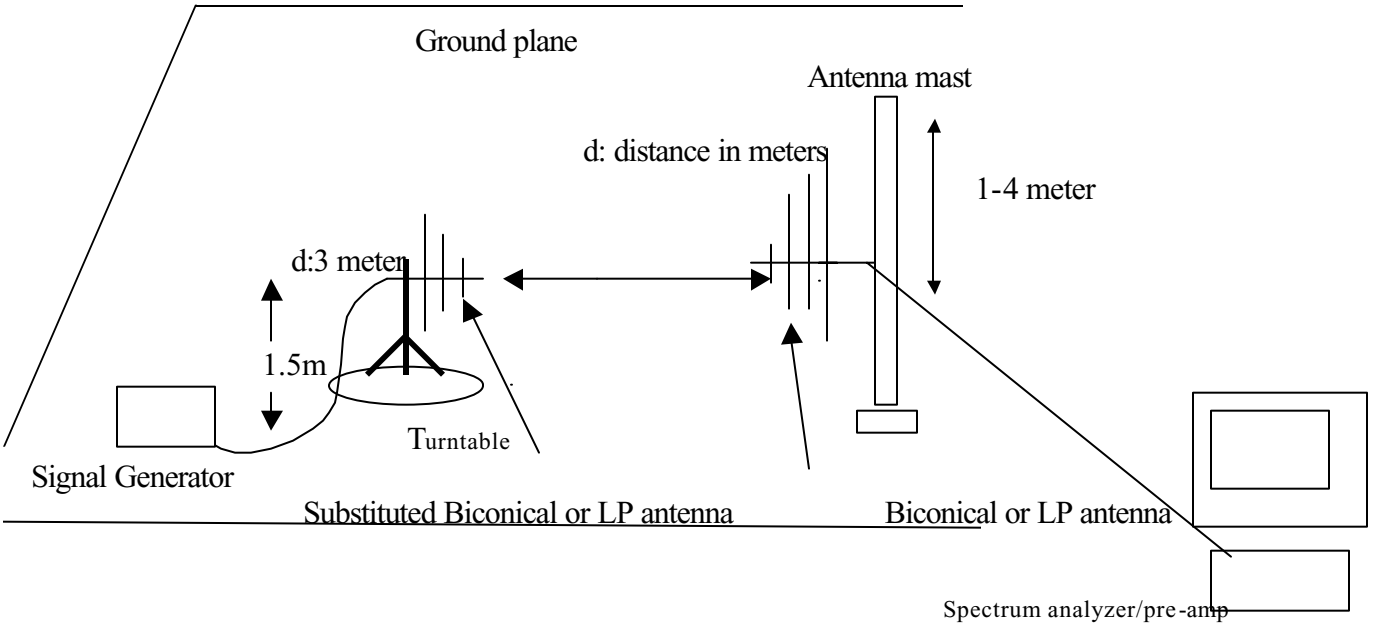


LOW END OF BAND/ OUT OF BAND
(CDPD MODULATION)

SUBSTITUTION METHOD: (RADIATED EMISSIONS)

Test Set-up:

Radiated BELOW 1GHz



Radiated ABOVE 1 GHz

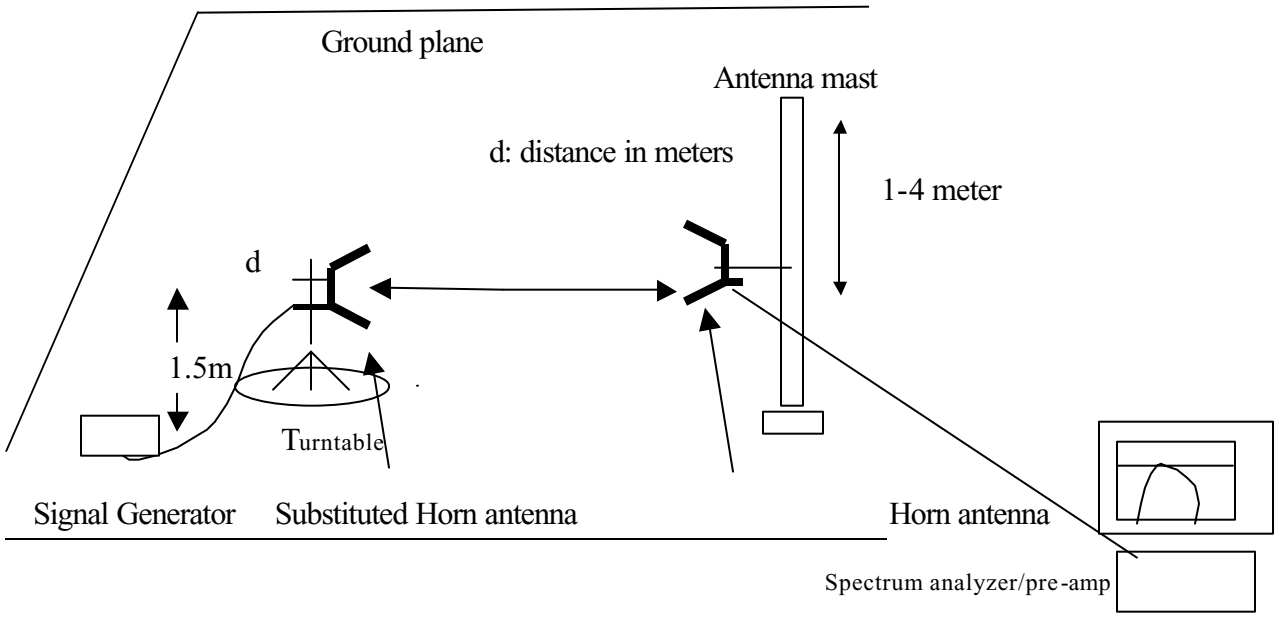


FIG. 11

The actual signal generated by the measured equipment may be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.

A. The substitution antenna will replace the Eut antenna in the same position and in vertical polarization. The frequency of the signal generator shall be set to the frequencies that were measured on the Eut. The test antenna shall be raised and lowered, if necessary, to ensure that the maximum signal is still being received. The signal generator, output level, shall be adjusted until an equal or a known related level to what was measured from the Eut is obtained in the spectrum analyzer.

   The radiated power is equal to the power supplied by the signal generator
   The formula, to calculated the true reading, is: True reading = dBm + GdBd - CL

   dBm = signal generator output level
   GdBd = the gain in dBd of the substitution antenna
   CL = the cable loss

The calculated True reading is then compared to the limit and should not exceed the limit. This method must be performed for every emission measured from the Eut. This shall also be repeated for horizontal polarization.

Compliance Certification
Services

2/1/01

Powerwave Steve Cheng

Frequency	SA reading	Sig Gen	CL	Gain	Gain	ERP	Limit	Margin
MHz	dBuV	dBm	dB	dBi	dBd	dBm	dBm	dB
1738H	51.9	-60	0.95	9	6.8	-54.15	-13	-41.15
2607V	50.26	-60	1	9	6.8	-54.2	-13	-41.2
3476V	52.11	-60	1.2	8	5.8	-55.4	-13	-42.4
4345H	46.89	-65	1.4	10.5	8.3	-58.1	-13	-45.1
5214H	31.9	-75	1.6	10	7.8	-68.8	-13	-55.8
6083H	43.88	-65	1.8	10.4	8.2	-58.6	-13	-45.6
1763H	53.86	-55	0.95	9	6.8	-49.15	-13	-36.15
2644V	50.51	-60	1	9	6.8	-54.2	-13	-41.2
3526V	59.45	-50	1.2	8	5.8	-45.4	-13	-32.4
4407H	43.28	-65	1.4	10.3	8.1	-58.3	-13	-45.3
6170H	42.89	-65	1.8	10.3	8.1	-58.7	-13	-45.7
1788H	65.24	-40	0.95	9	6.8	-34.15	-13	-21.15
2682V	50.63	-60	1	9	6.8	-54.2	-13	-41.2
3576V	62.88	-45	1.2	8	5.8	-40.4	-13	-27.4
4470H	56.66	-50	1.4	10.6	8.4	-43	-13	-30
5364H	40.02	-65	1.6	10	7.8	-58.8	-13	-45.8
6258H	31.38	-70	1.8	9	6.8	-65	-13	-52

SECTION 2.1055: FREQUENCY STABILITY

Not Applicable. Eut is a power amplifier.