BRYANT SOLUTIONS®
RF ENGINEERING & TRAINING SERVICES

APPLICATION NOTE
R&S PR100 FFM MODE SETUP

DEVICE SETUP	**Rohde & Schwarz PR100 FFM Setup Procedure for System Rx Measurement**
WHEN TO USE	FFM (Fixed Frequency Mode) is the preferred mode to use for frequency spans up to 10 MHz because it offers the fastest sweep speeds. If the signal under test is greater than 10 MHz, use PSCAN to identify the center frequency of the interference and then use FFM to locate it.
RELATED DOCUMENTS	• App Note: **R&S PR100 PSCAN Mode Setup** (1801-02068-EN-2018). • App Note: **External Interference Analysis using R&S PR100** (1801-02071-EN). • Bryant Solutions' Reference Manual.
WARNING	When interference is detected, always verify it is not due to test unit saturation. Refer to Bryant Solutions' Reference Manual for saturation testing procedures.

1) SET SCAN MODE

SCAN → F1 → FFM

2) SET SCREEN (A OR B)

RX → F1 → A (Located in Upper Left-Hand Portion of Screen)

3) SET TRACE #2 Maximum Hold

CONF → F3 → Display Max Hold: On

4) SET CENTER FREQUENCY: There is no mode to enter center frequency. As you begin to enter numbers, the RX window should appear as shown below. Enter number and units for center frequency. The marker and line functions should not be activated; otherwise, "M", "L1" or "L2" may appear in place of "RX".

RX

5) SET PARAMETERS

SCAN → F2 →

Measure Time Mode	Default
Measuring Mode	Continuous
Max Hold Persistent Mode	Manual
Restart Display Max Hold	+3.0 s

(Holds Max Level for 3 seconds)

6) SET DISPLAY MODE

DISP → F1 → Spectrum

7) SET RANGE

DISP → F2 →

IF-PAN Level Reference	-60 dBm
IF-PAN Level Range	100 dB
IF-PAN Display Mode	Avg

8) SET SPAN (ZOOM)

(Preset Spans from 1 kHz to 10 MHz)

9) SET ATT = OFF (Internal Preamplifier = ON AND Internal Attenuation = 0 dB)

10) SET MGC = OFF (Manual Gain Control)

Important Note: The following settings are covered in Bryant Solutions' "External Interference" application note (1801-02071-EN), which provides a step-by-step approach to tracking and locating external interference.

11) SET AFC = OFF (Automatic Frequency Control)

12) SET SQL = OFF (Squelch)

13) SET Tone = OFF