BRYANT SOLUTIONS®
RF ENGINEERING & TRAINING SERVICES

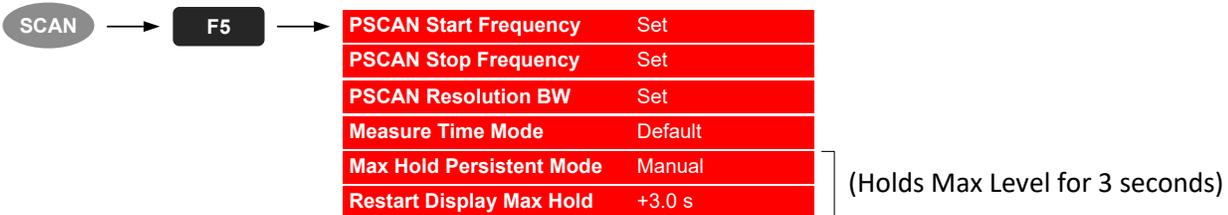| DEVICE SETUP	Rohde & Schwarz PR100 PSCAN Setup Procedure for System Rx Measurement
WHEN TO USE	PSCAN (Panorama Scan) is for frequency spans over 10 MHz. The RBW is manually adjusted. The Span/RBW ratios below are low to compensate for sweep speed. Adjust accordingly. • Span = 15 MHz and RBW = 12.5 kHz (Span/RBW = 1200) • Span = 20 MHz and RBW = 25 kHz (Span/RBW = 800)
RELATED DOCUMENTS	• App Note: **R&S PR100 FFM Mode Setup** (1801-02067-EN). • App Note: **External Interference Analysis using R&S PR100** (1801-02071-EN). • Bryant Solutions' Reference Manual.
WARNING	When interference is detected, <u>always</u> 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 → PSCAN

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 PARAMETERS

SCAN → F5 →

PSCAN Start Frequency	Set
PSCAN Stop Frequency	Set
PSCAN Resolution BW	Set
Measure Time Mode	Default
Max Hold Persistent Mode	Manual
Restart Display Max Hold	+3.0 s

(Holds Max Level for 3 seconds)

5) SET DISPLAY MODE

DISP → F1 → Spectrum

6) SET RANGE

DISP → F2 →

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

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

8) START SWEEP

SCAN ⟶ F3 ⟶ Run+   (Left-to-Right Sweep. Select F2 for Right-to-Left Sweep)

9) SET MGC = OFF (Manual Gain Control)

RX ⟶ MGC

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.

10) SET AFC = OFF (Automatic Frequency Control)

AFC

11) SET SQL = OFF (Squelch)

RX ⟶ SQL

12) SET Tone = OFF

RX ⟶ Tone