

Protocol of RF Detector Calibration

IAP RAS

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1 Measurement equipment

1. Microwave generator: Rigol DSG830
2. Spectrum analyzer: Rigol RSA5065N
3. Oscilloscope: Tektronix MD034

2 Parameters

Parameters from DetCal application settings file.

RF FREQUENCIES	2000 to 3000 MHz [3]
RF LEVELS	-5.0 to 15.0 dBm [21]
SPAN WIDE	1000 kHz
SPAN NARROW	100 kHz
RBW WIDE	10 kHz
RBW NARROW	1 kHz
VBW WIDE	10 kHz
VBW NARROW	1 kHz
REF LEVEL	15.0 dBm
SWEEP POINTS	1001
SWEEP TIME	AUTO ON
PRECISE	True
HOR SCALE	10 ms/div
HIGH RES	True
IMPEDANCE 50OHM	True
COUPLING DC	True
CHANNEL	4
RECALC ATTEN	True

Table 1: Measurement parameters

3 Results

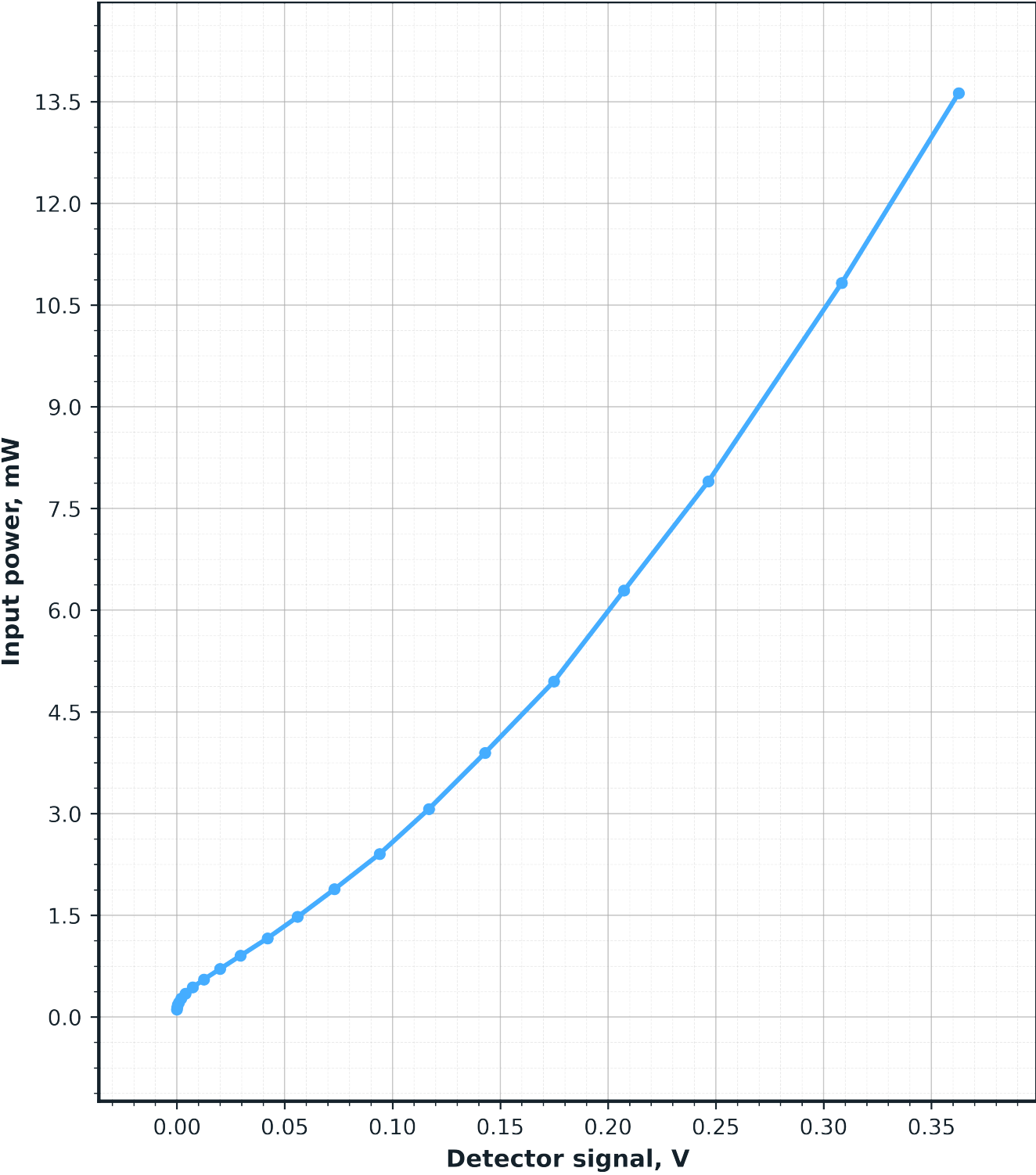


Figure 1: Detector response at 2500 MHz

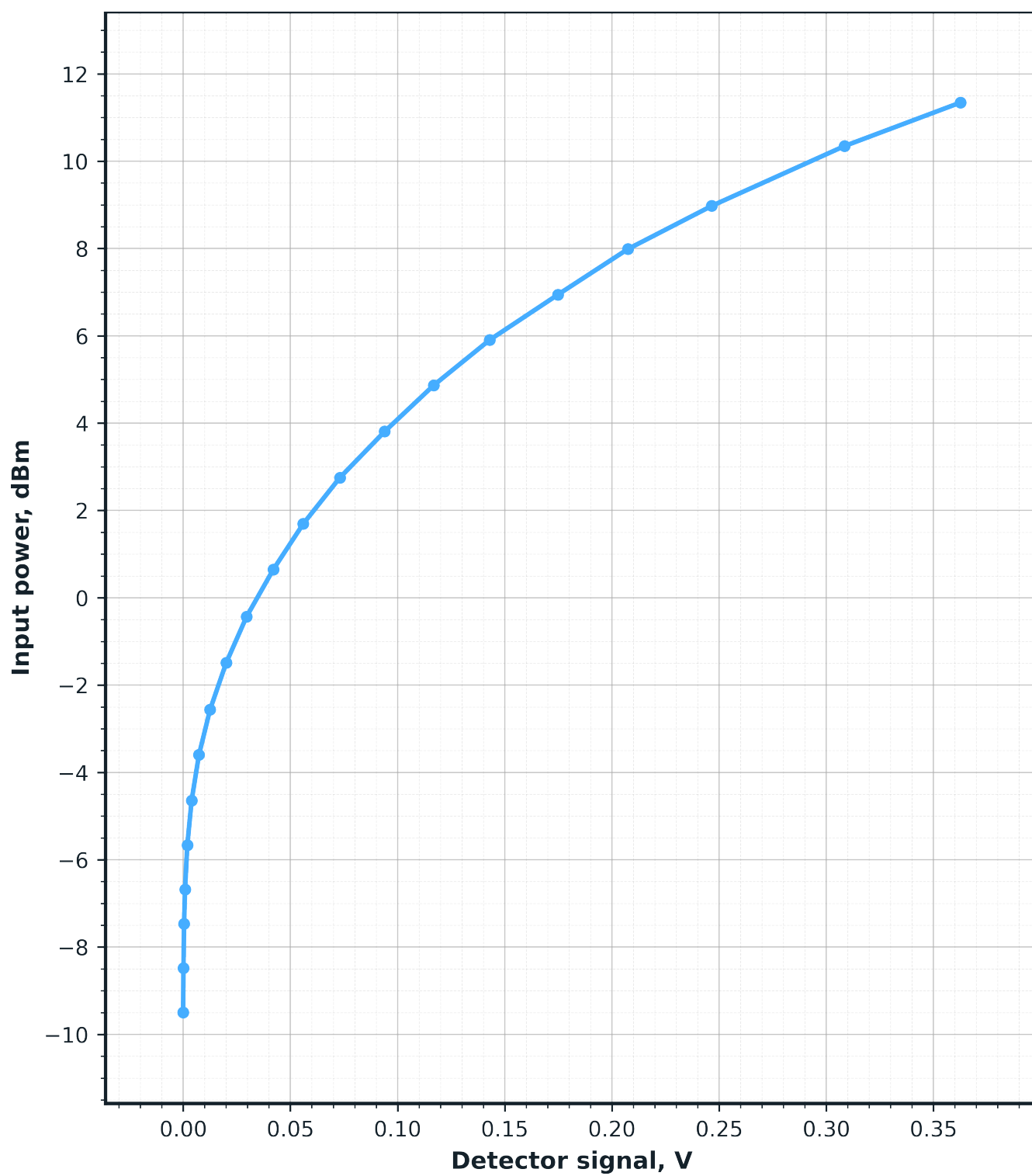


Figure 2: Detector response at 2500 MHz