

**SUMMARY TEST DATA
ON
PFS-1G20G**

Customer: _____
SO: _____
Model No: PFS-1G20G
Serial No: PL52684/2517

Tested By: Dylan Hoschar
Temperature: 25°C
Date: 4/22/2025
Drawing No: 27649860 Rev: B1

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA/QC	
1	Frequency Range:	1.0 GHz to 20.0 GHz	1.0 GHz to 20.0 GHz	PMI QA2	
2	Frequency Step Size:	0.2 Hz	0.2 Hz		
3	Frequency Switch Time:	50 ms Max.	42.63 ms (See Graphs)		
4	Output Power:	+10 dBm Min.	11.1 dBm		
5	Frequency Accuracy:	$\pm 2 \times 10^{-7}$ (or same as external ref)	$\pm 2 \times 10^{-7}$ (or same as external ref)		
6	Frequency Stability:	$\pm 2 \times 10^{-7}$ (or same as external ref)	$\pm 2 \times 10^{-7}$ (or same as external ref)		
7	Spurious:	-65 dBc Typ. -60 dBc Max.	-70.3 dBc See Graphs		
8	Harmonics:	-5 dBc Max.	-9.18 dBc (See Graphs)		
9	Power Supply:	+12V @ 1.4A Max. (Warm-up) +12V @ 1.2A Max. (Stable)	+12V @ 1.12A +12V @ 0.96A		
10	Phase Noise:	See Table 1 Below:	See Table 2 Below		PMI QA2

	1 GHz	5 GHz	10 GHz	20 GHz
dBc/Hz @ 100 Hz	≤ -105	≤ -91	≤ -85	≤ -79
dBc/Hz @ 1 kHz	≤ -129	≤ -113	≤ -107	≤ -101
dBc/Hz @ 10 kHz	≤ -135	≤ -122	≤ -116	≤ -110
dBc/Hz @ 100 kHz	≤ -135	≤ -122	≤ -116	≤ -110
dBc/Hz @ 1 MHz	≤ -138	≤ -125	≤ -119	≤ -113

	1 GHz	5 GHz	10 GHz	20 GHz
dBc/Hz @ 100 Hz	-115	-102	-95	-90
dBc/Hz @ 1 kHz	-131	-118	-112	-106
dBc/Hz @ 10 kHz	-137	-125	-119	-113
dBc/Hz @ 100 kHz	-137	-125	-119	-113
dBc/Hz @ 1 MHz	-139	-128	-122	-116

QA/QC Approval

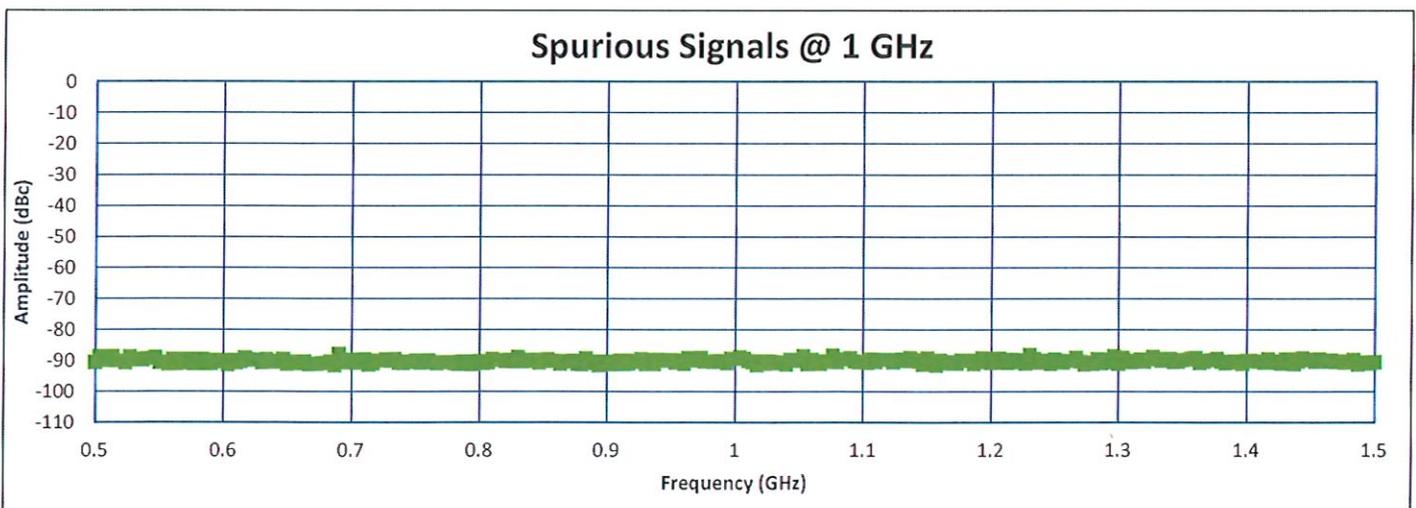
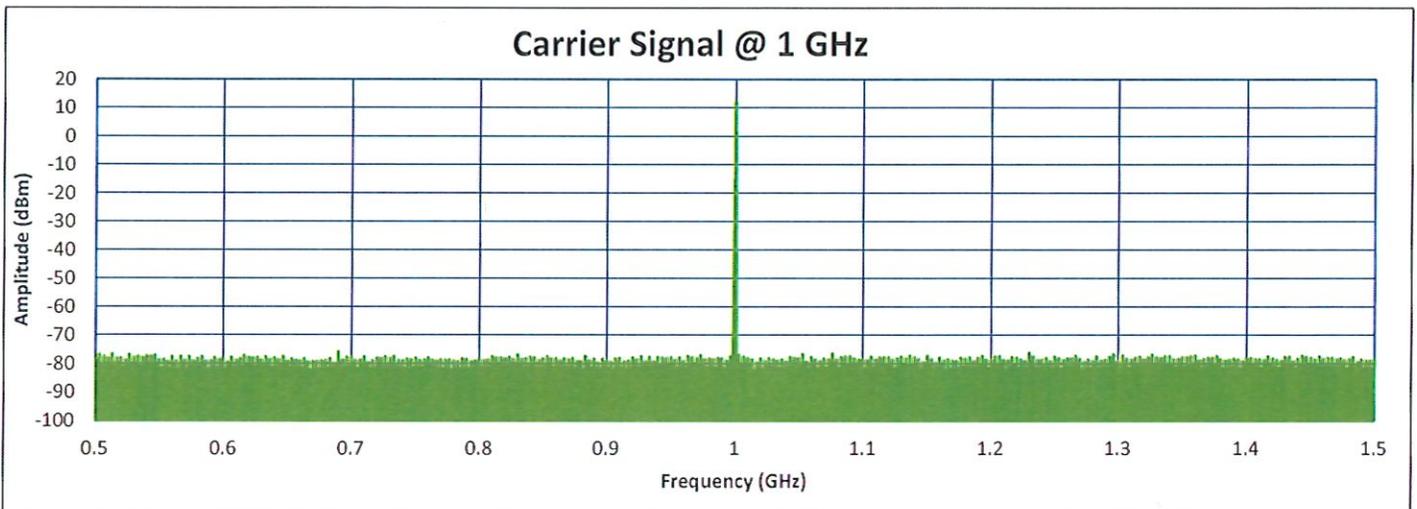
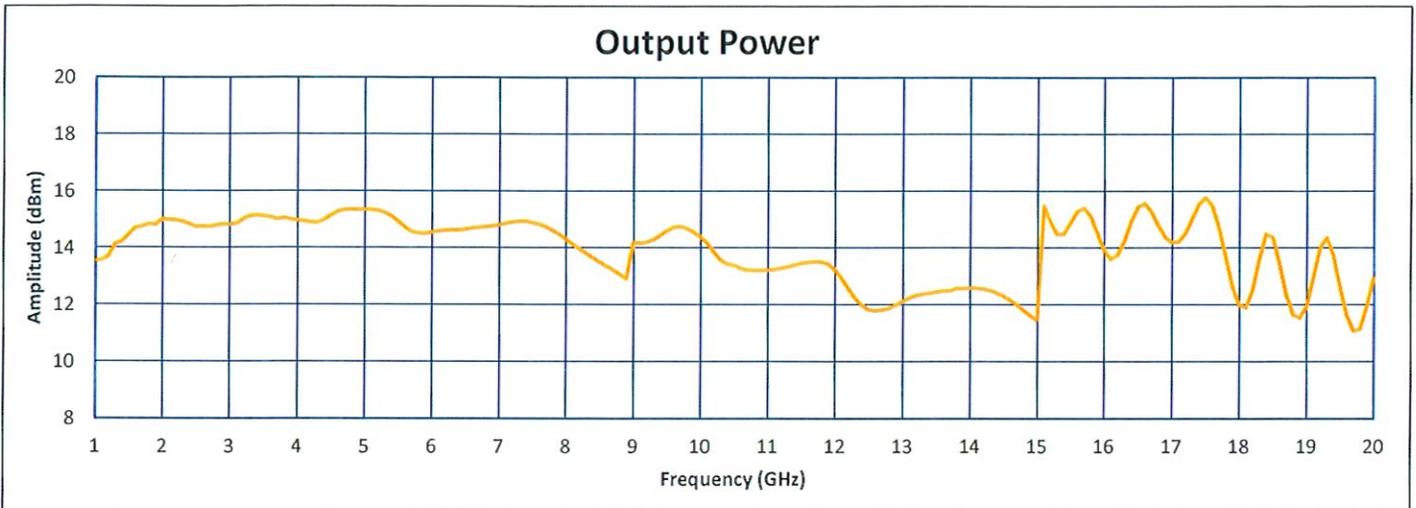


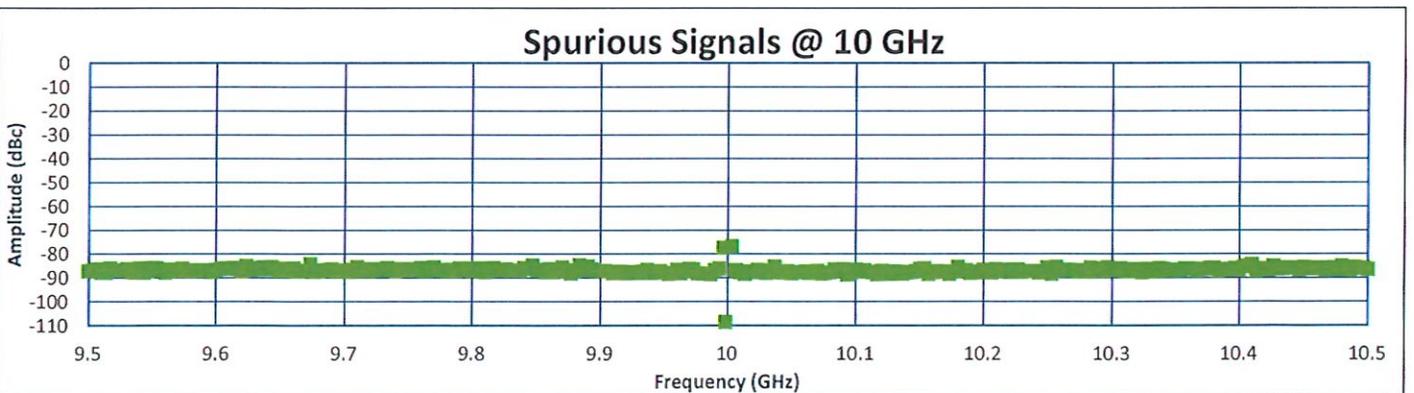
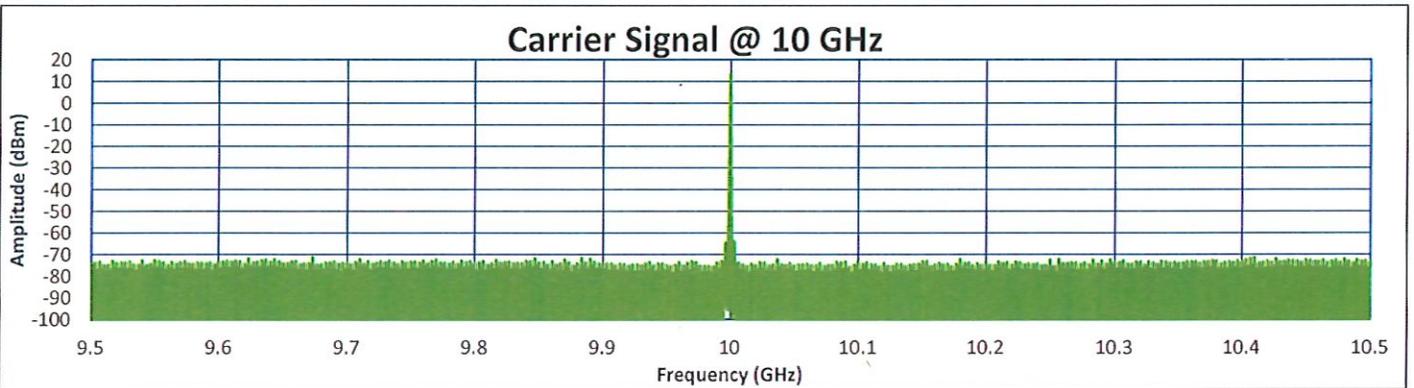
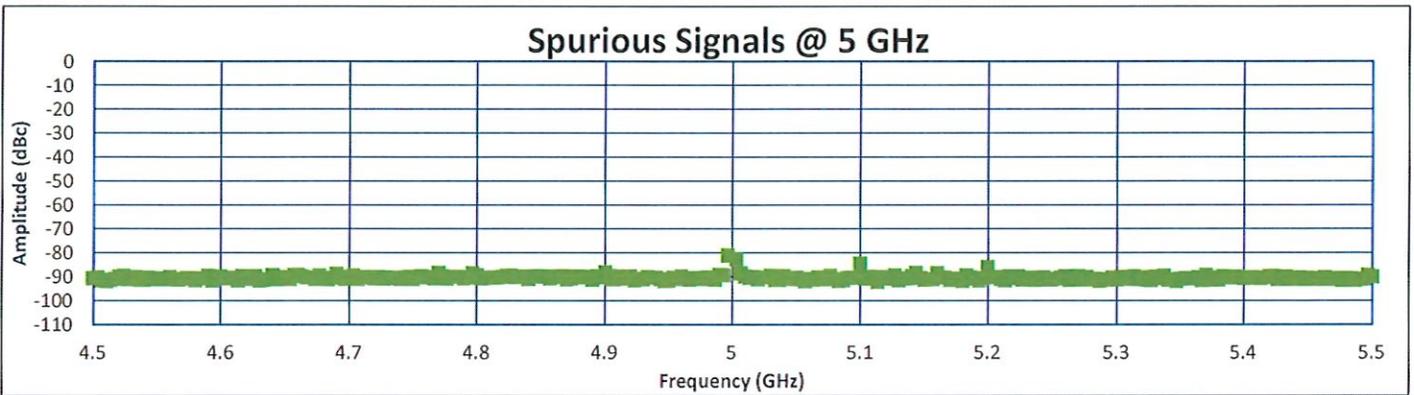
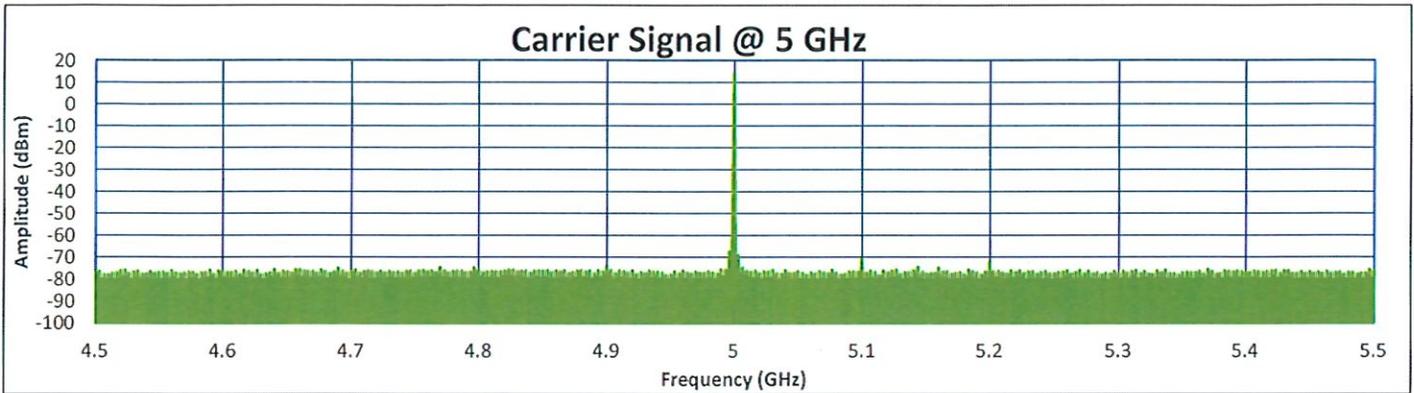
PMI
QA2

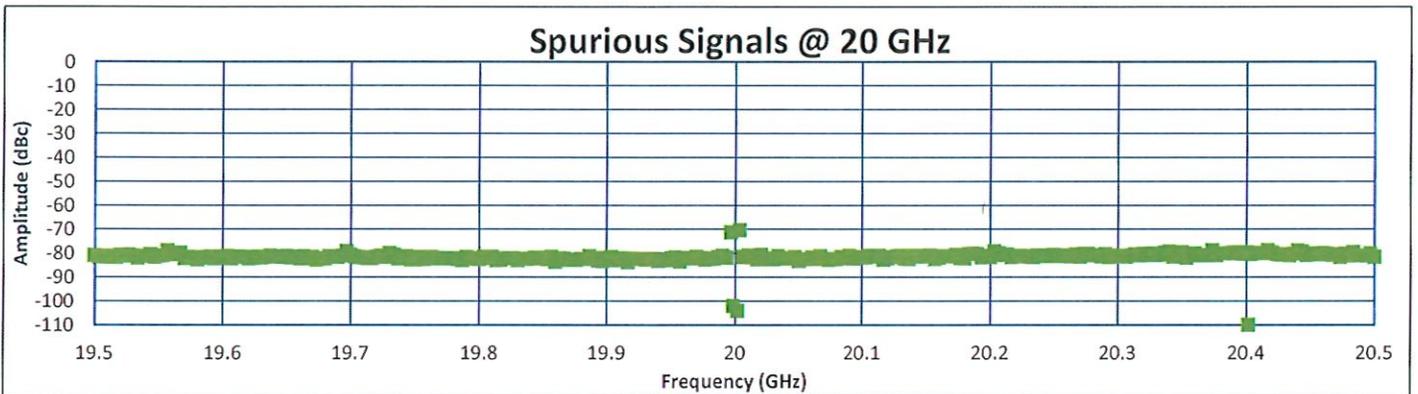
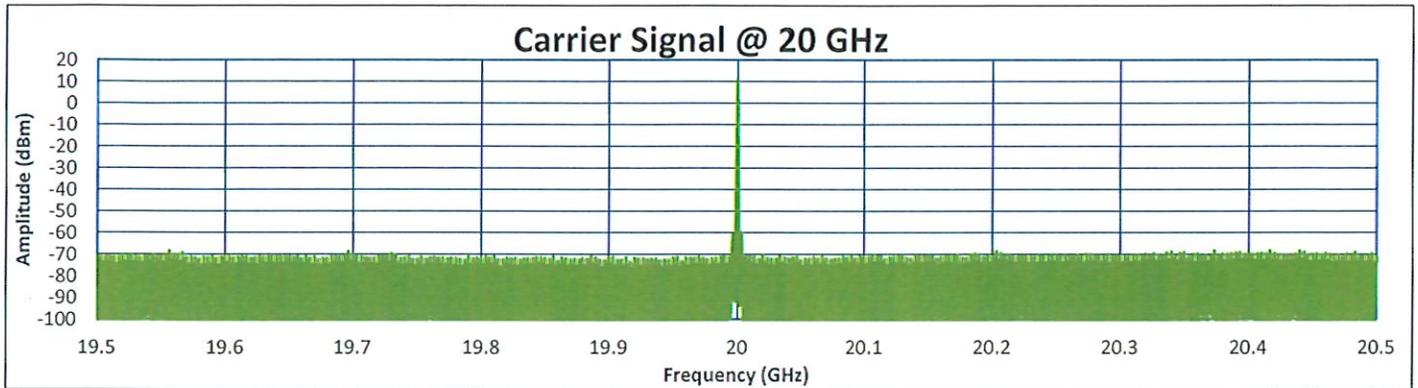
Date:

4/25/2025

7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@quanticpmi.com

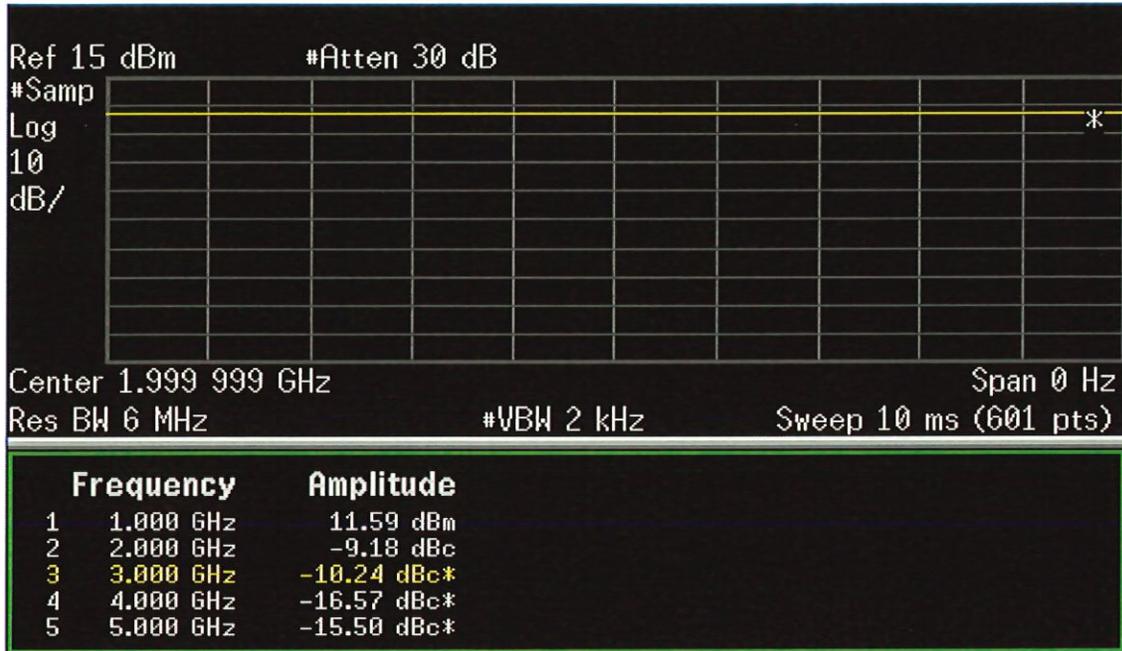




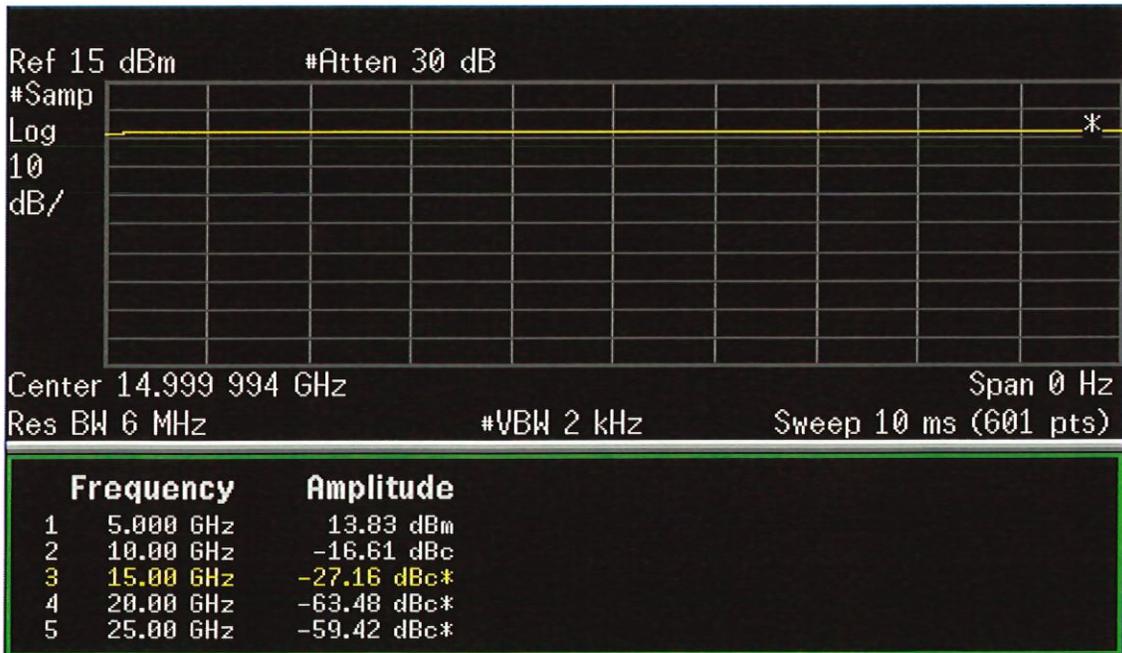


Harmonics

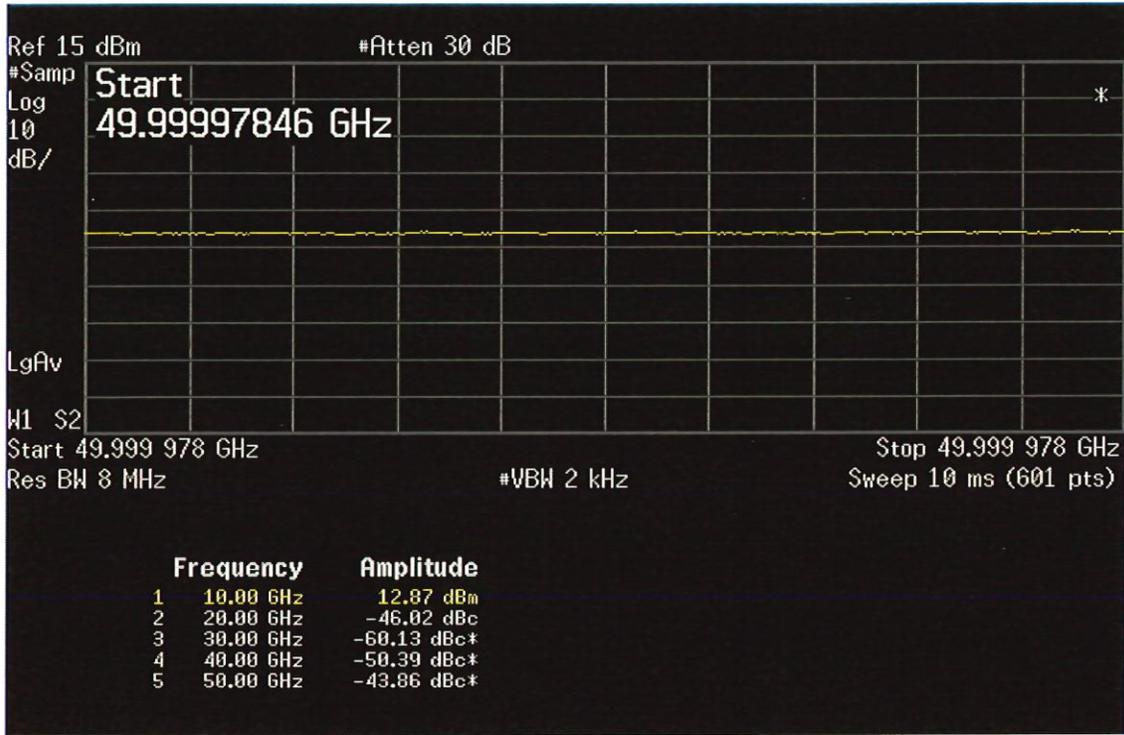
@ 1 GHz



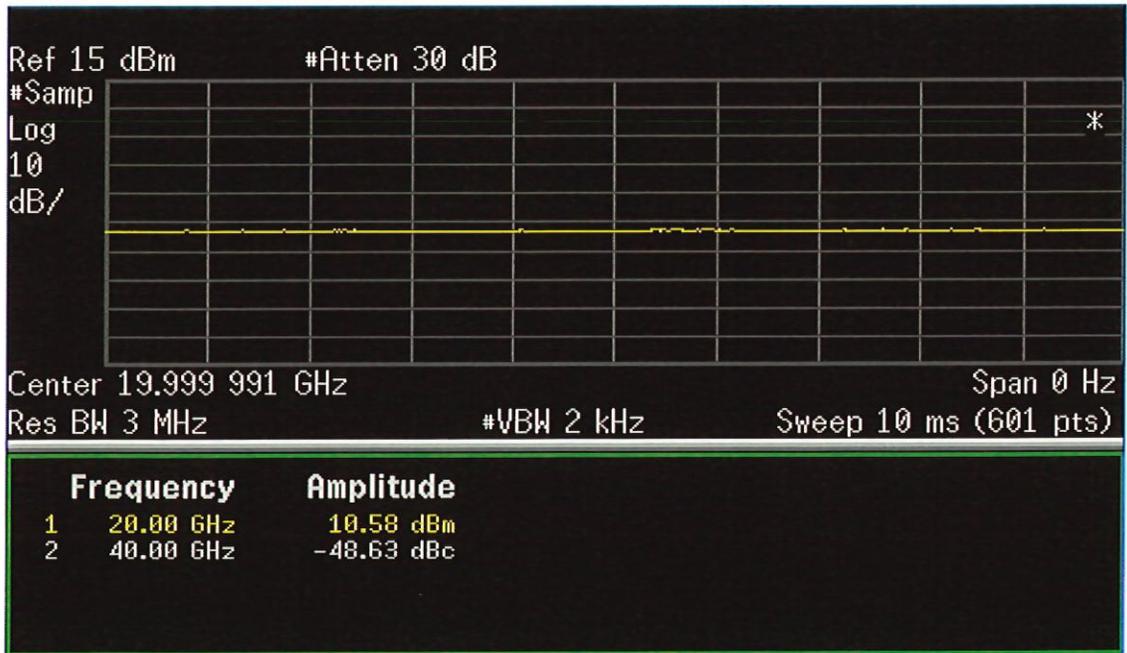
@ 5 GHz



@ 10 GHz

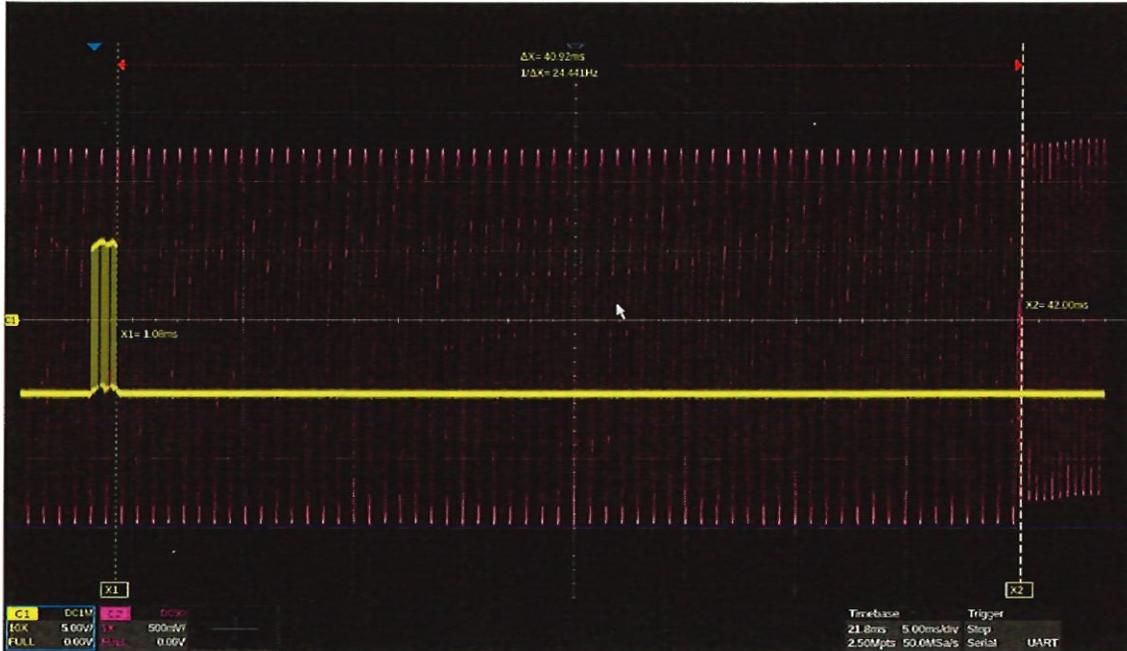


@ 20 GHz

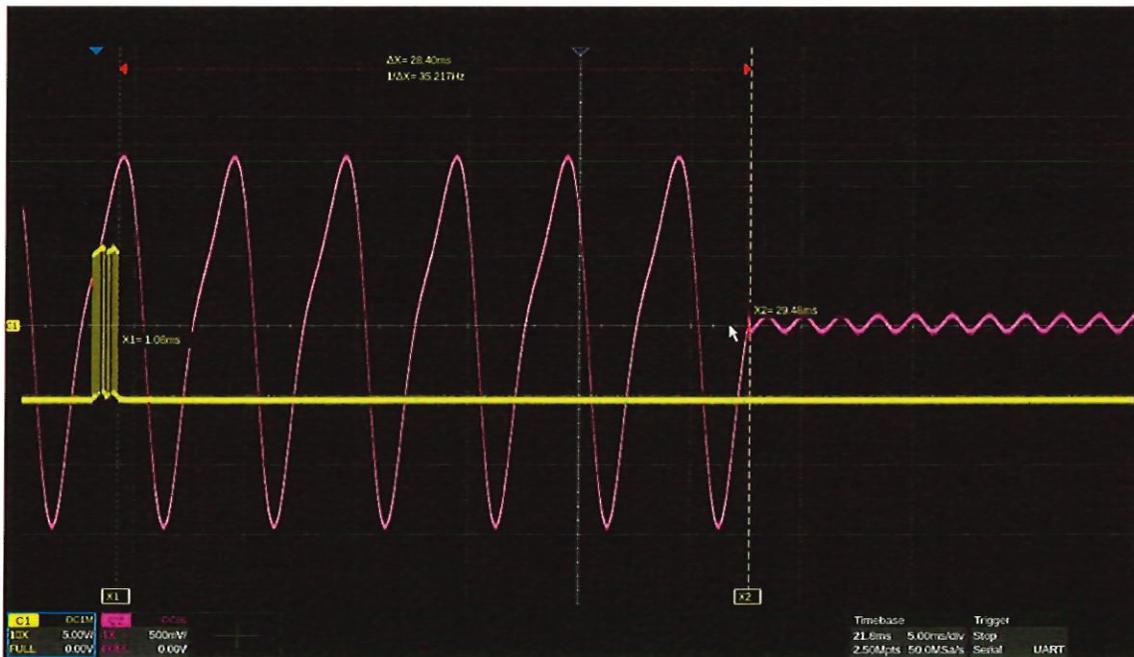


Frequency Switching Time

1 GHz to 2 GHz



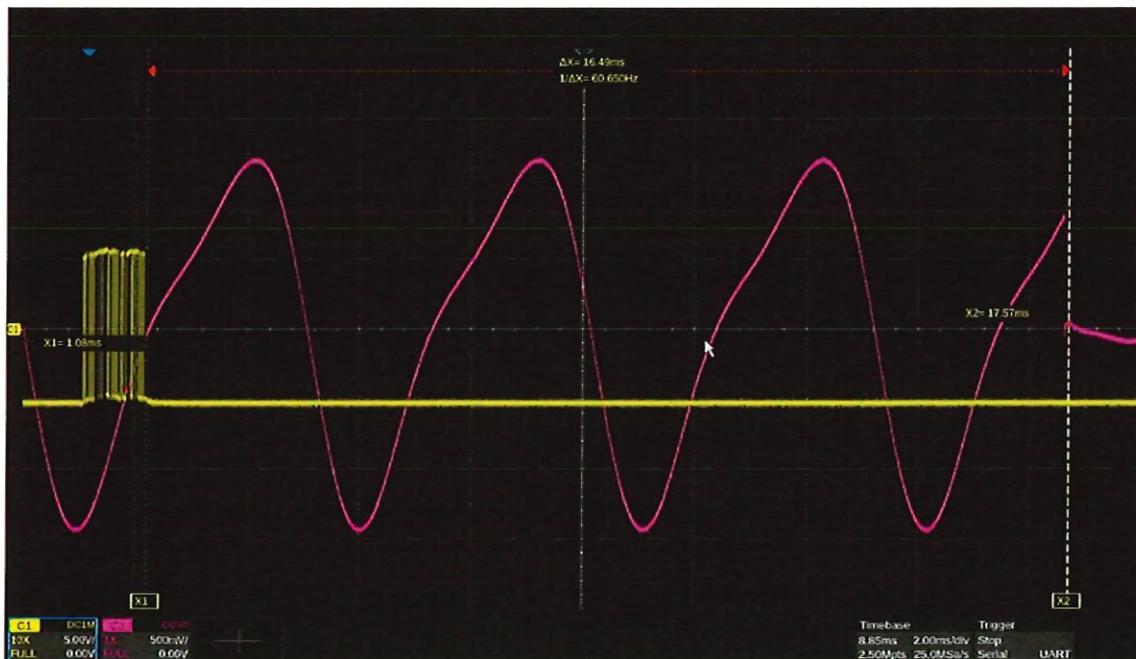
1 GHz to 3 GHz



1 GHz to 4 GHz

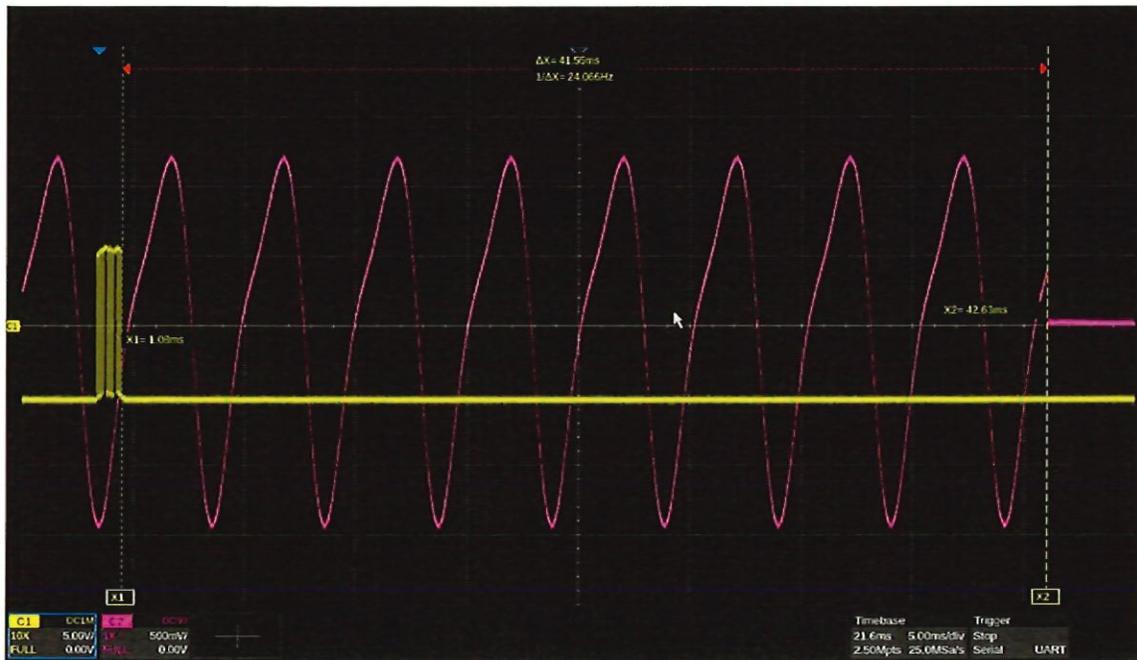


1 GHz to 5 GHz



**SUMMARY TEST DATA
ON
PFS-1G20G**

1 GHz to 10 GHz



1 GHz to 20 GHz

