



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

Customer: _____
 _____ SO: _____
 Model No: PFS-1G20G
 Serial No: PL52685/2517

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.	42.45 ms (See Graphs)	
4	Output Power:	+10 dBm Min.	11.3 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.	-70.7 dBc See Graphs	
8	Harmonics:	-5 dBc Max.	-12.18 dBc (See Graphs)	
9	Power Supply:	+12V @ 1.4A Max. (Warm-up) +12V @ 1.2A Max. (Stable)	+12V @ 1.09A +12V @ 0.97A	
10	Phase Noise:	See Table 1 Below:	See Table 2 Below	PMI QA2

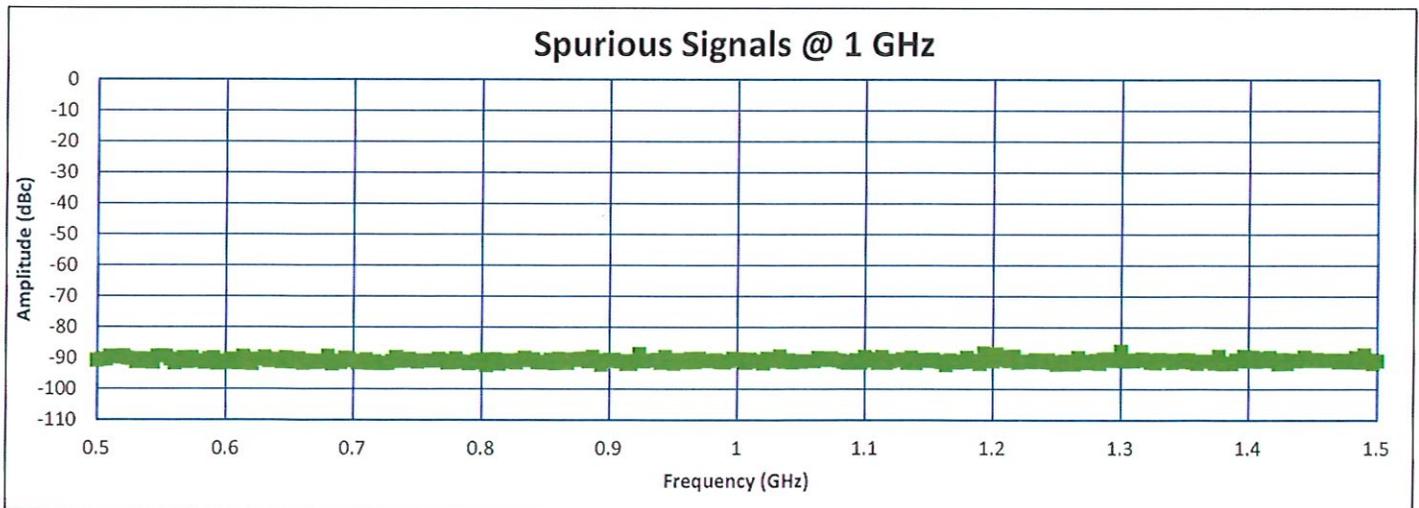
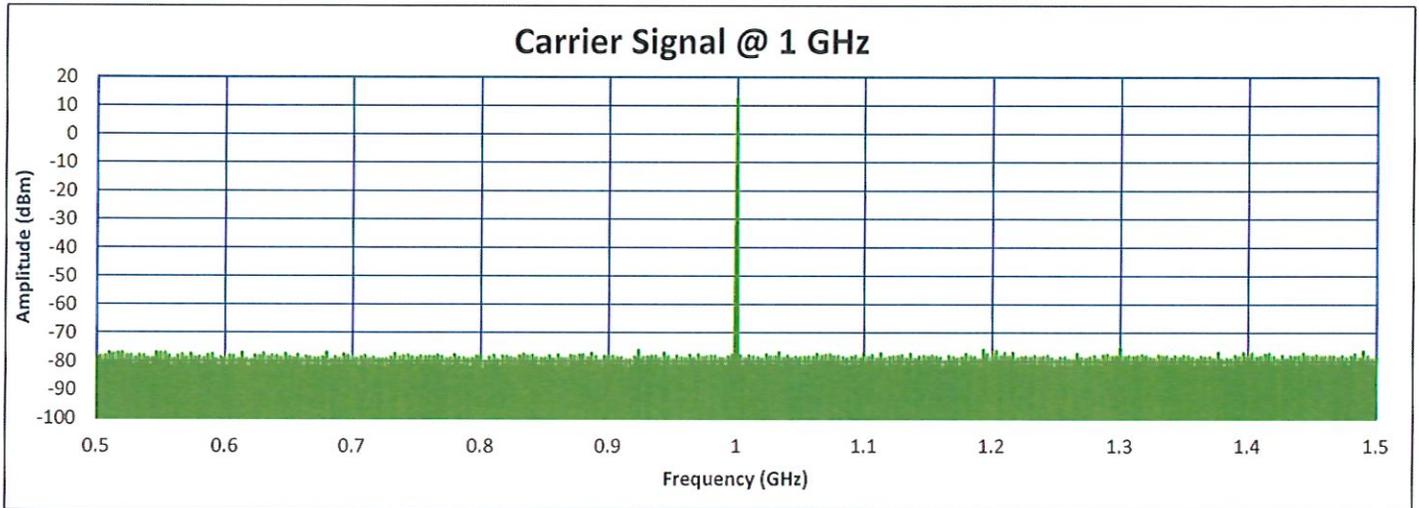
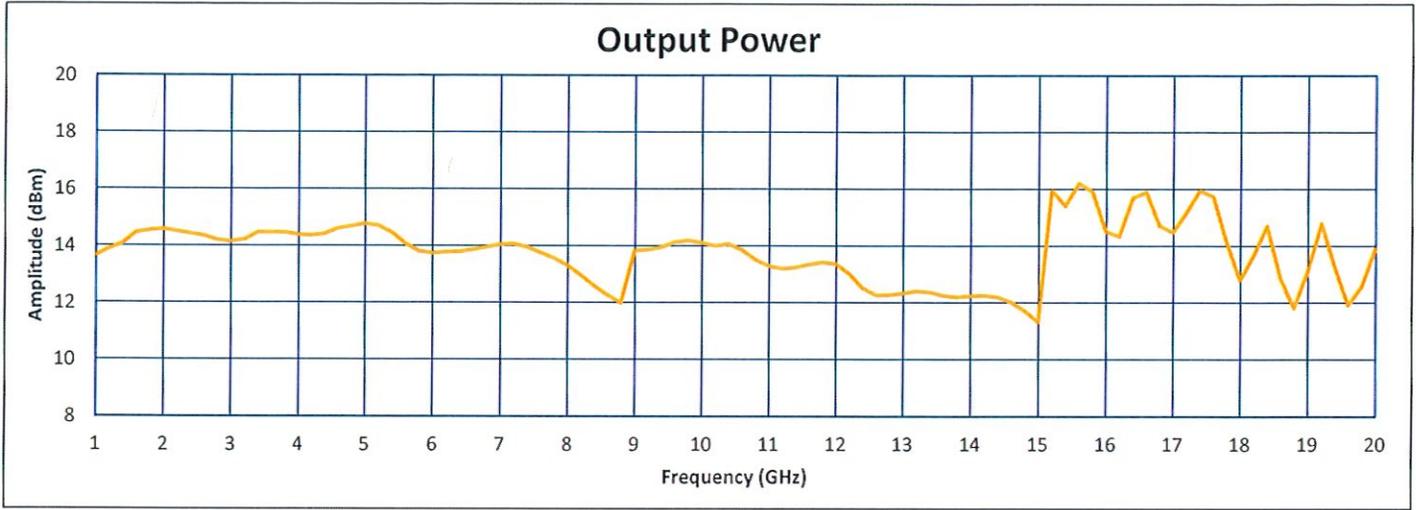
	1 GHz	5 GHz	10 GHz	20 GHz
dBc/Hz @ 100 Hz	≤ -105	≤ -91	≤ -85	≤ -79
dBc/Hz @ 1 kHz	≤ -129	≤ -113	≤ -107	≤ -101
dBc/Hz @ 10 kHz	≤ -135	≤ -122	≤ -116	≤ -110
dBc/Hz @ 100 kHz	≤ -135	≤ -122	≤ -116	≤ -110
dBc/Hz @ 1 MHz	≤ -138	≤ -125	≤ -119	≤ -113

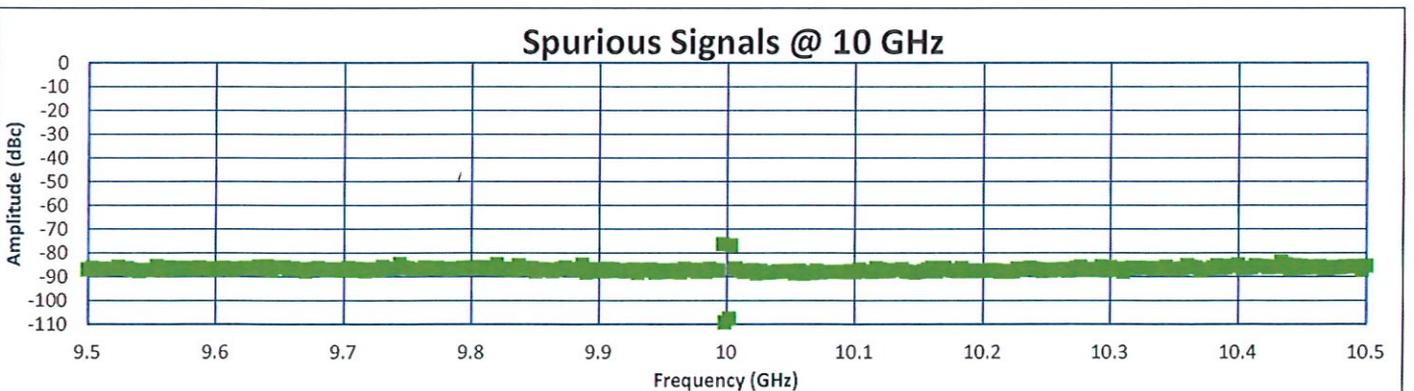
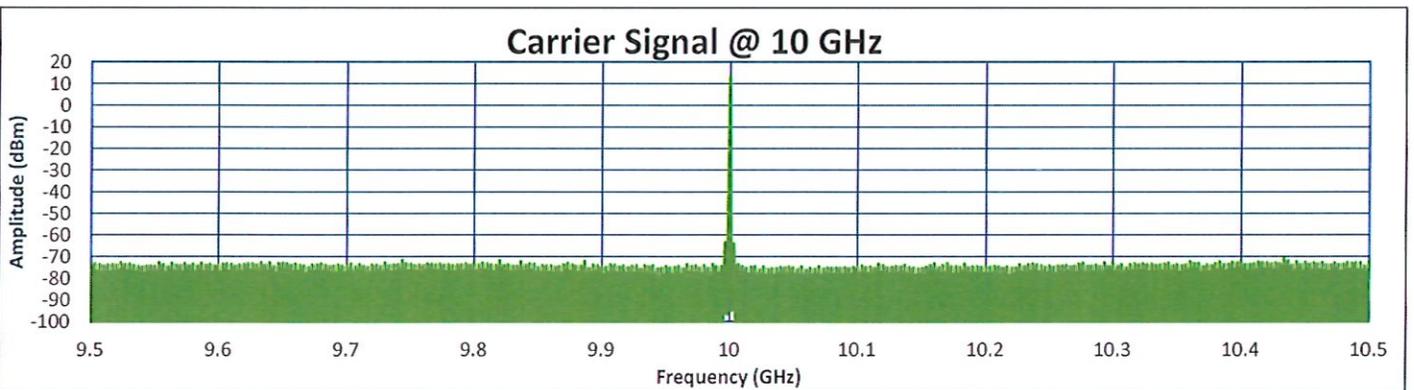
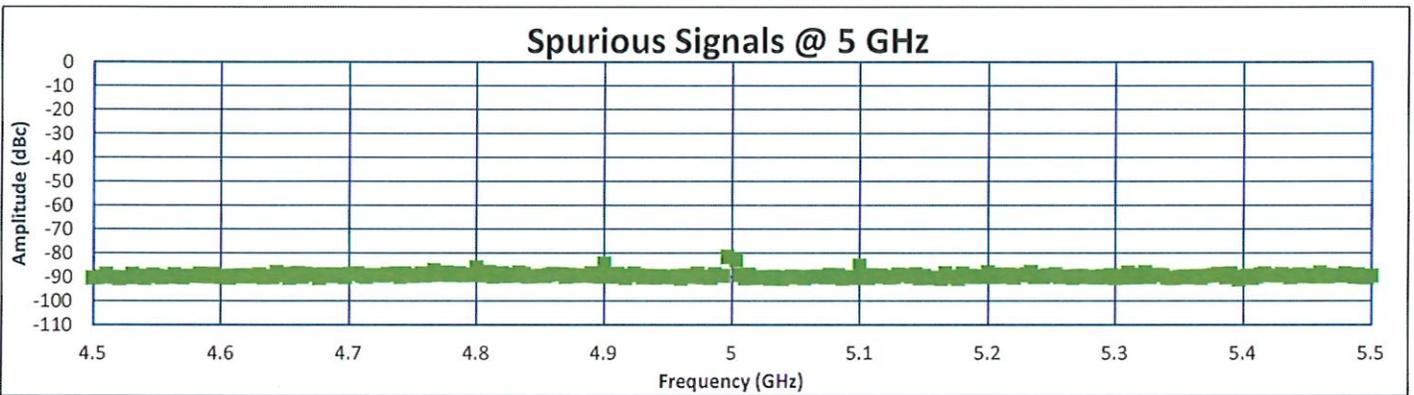
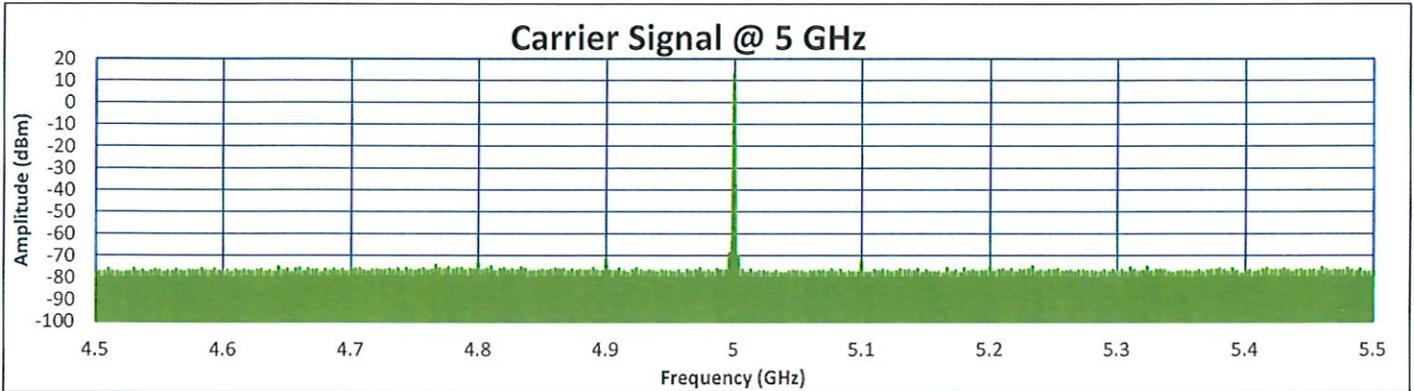
	1 GHz	5 GHz	10 GHz	20 GHz
dBc/Hz @ 100 Hz	-114	-99	-94	-89
dBc/Hz @ 1 kHz	-131	-117	-113	-106
dBc/Hz @ 10 kHz	-137	-125	-119	-113
dBc/Hz @ 100 kHz	-137	-125	-120	-113
dBc/Hz @ 1 MHz	-139	-128	-122	-116

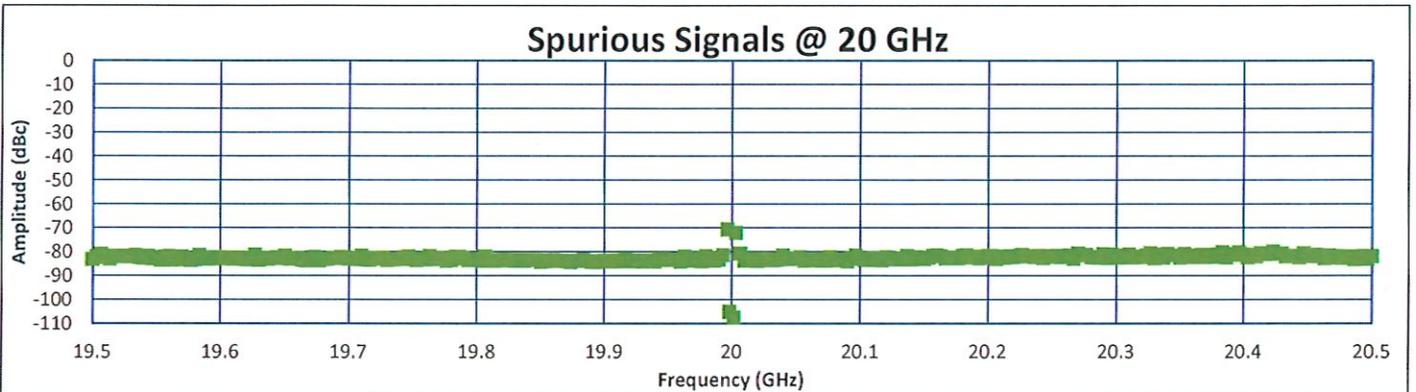
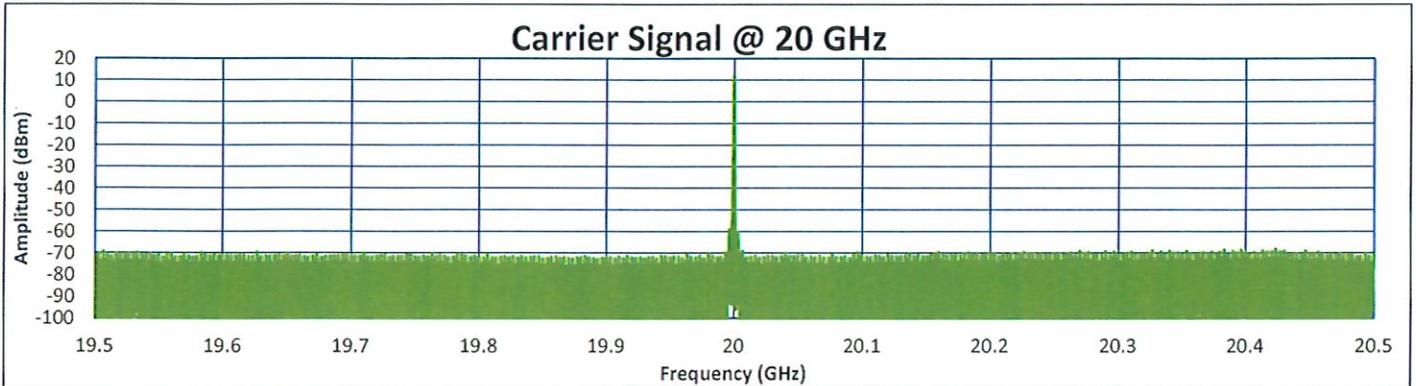
QA/QC Approval: _____

PMI
QA2

Date: 4/25/2025

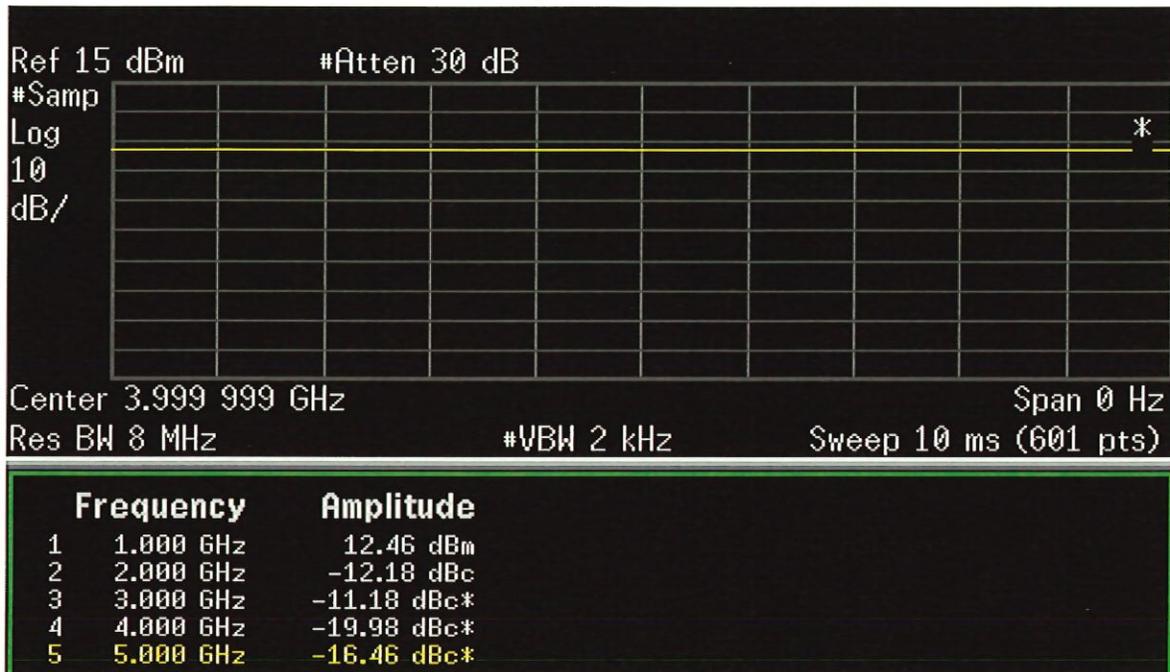




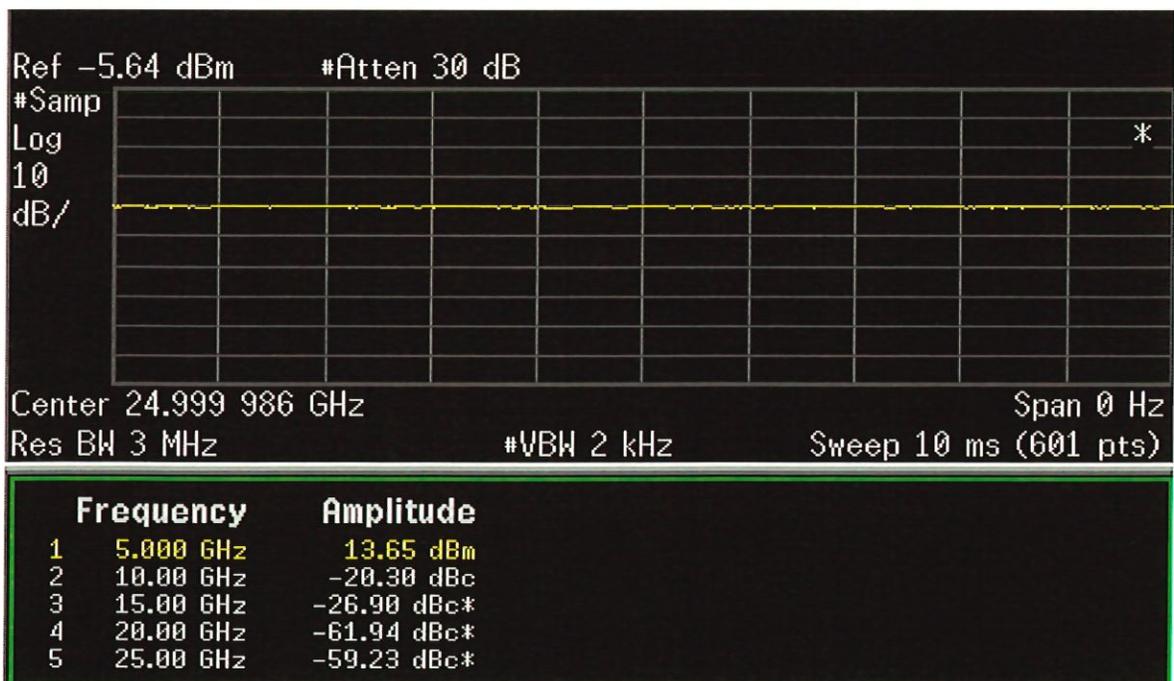


Harmonics

@ 1 GHz

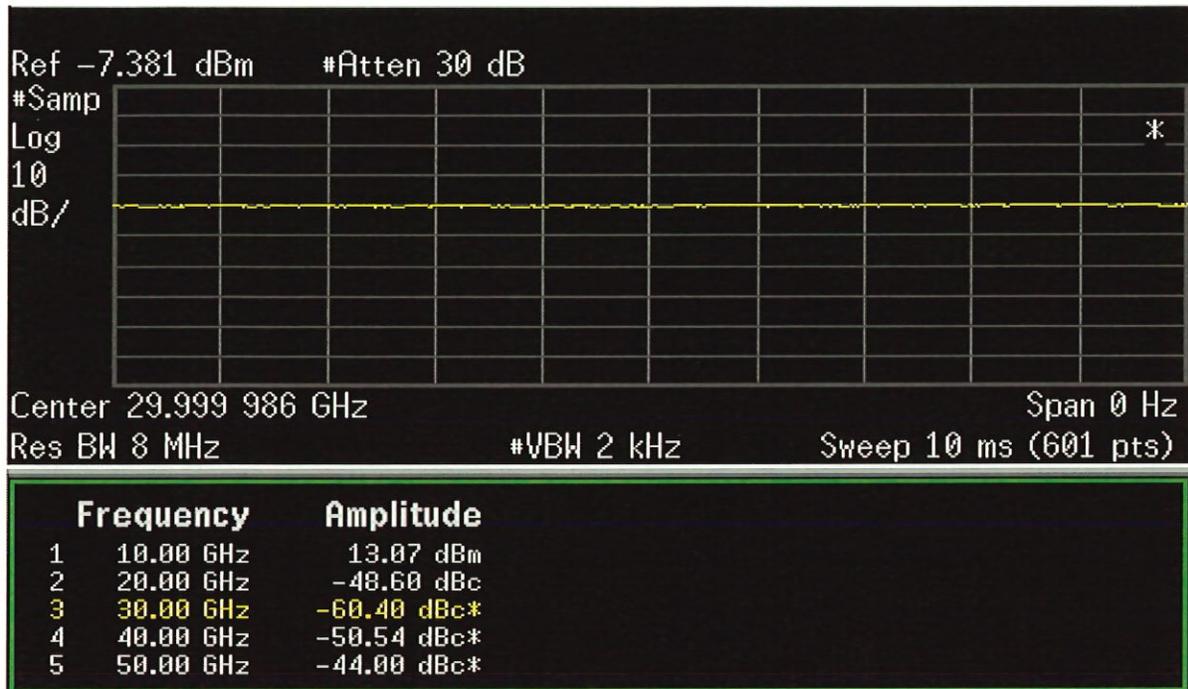


@ 5 GHz

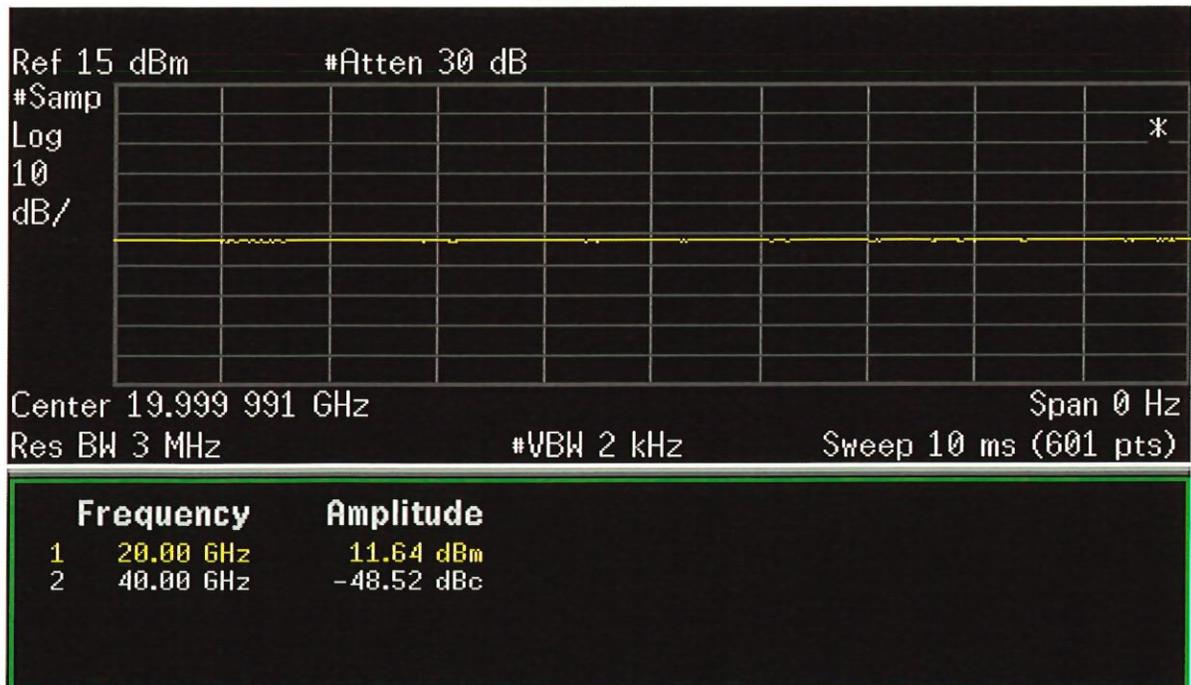


SUMMARY TEST DATA
ON
PFS-1G20G

@ 10 GHz

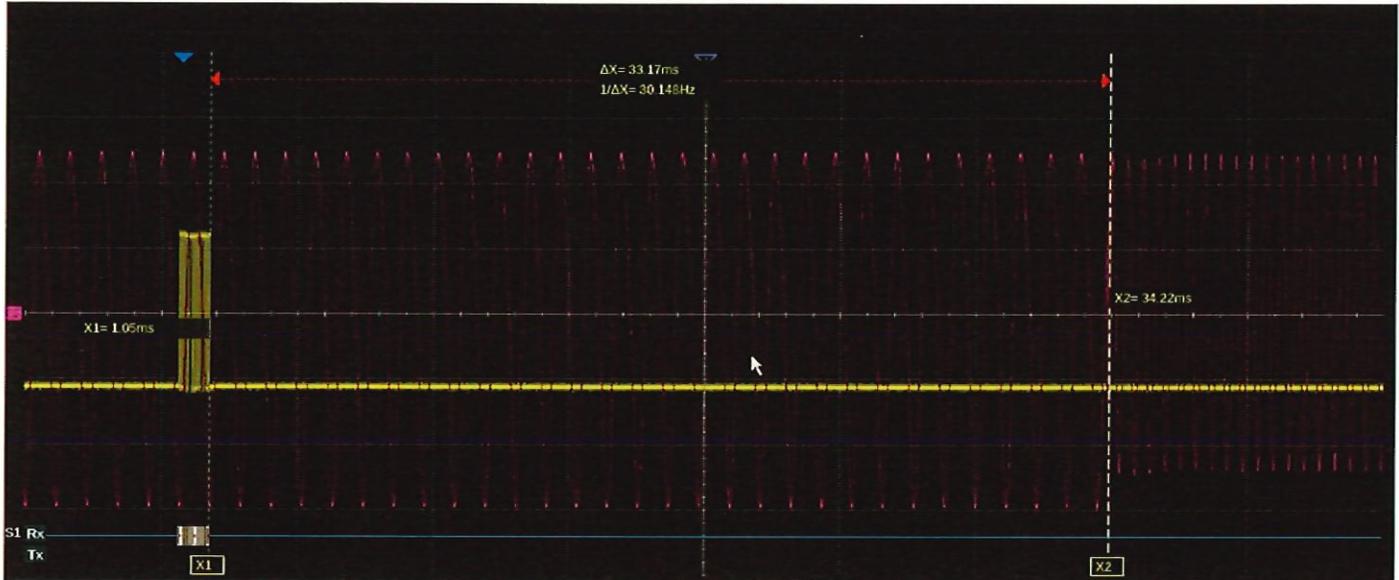


@ 20 GHz

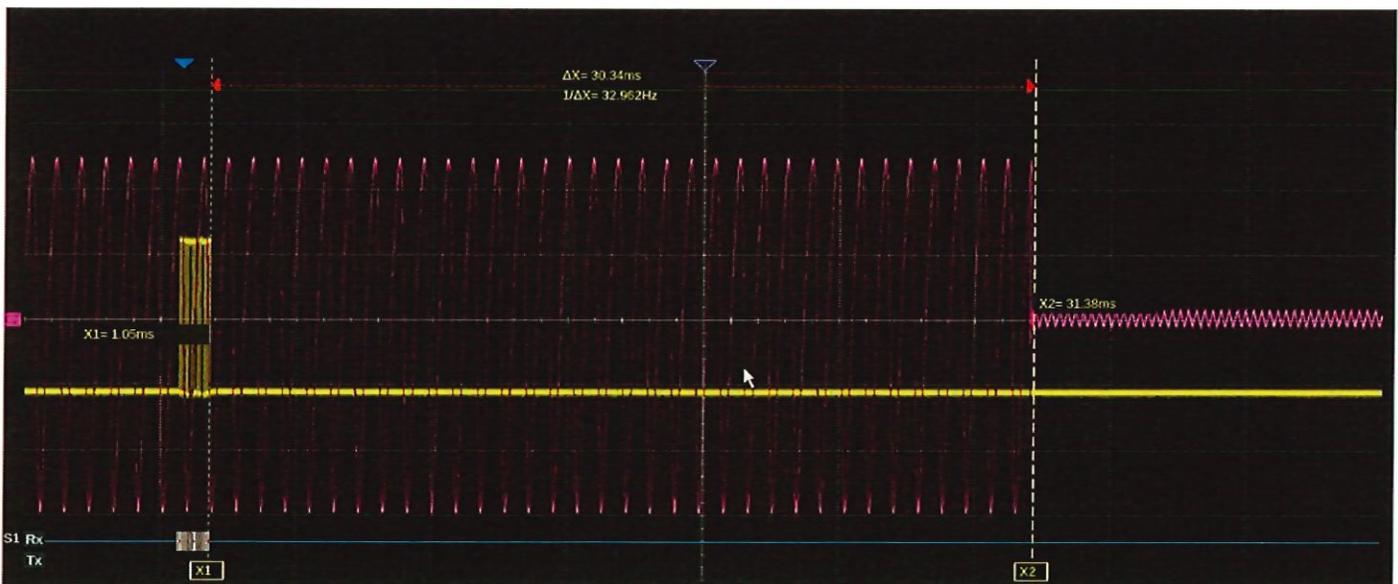


Frequency Switching Time

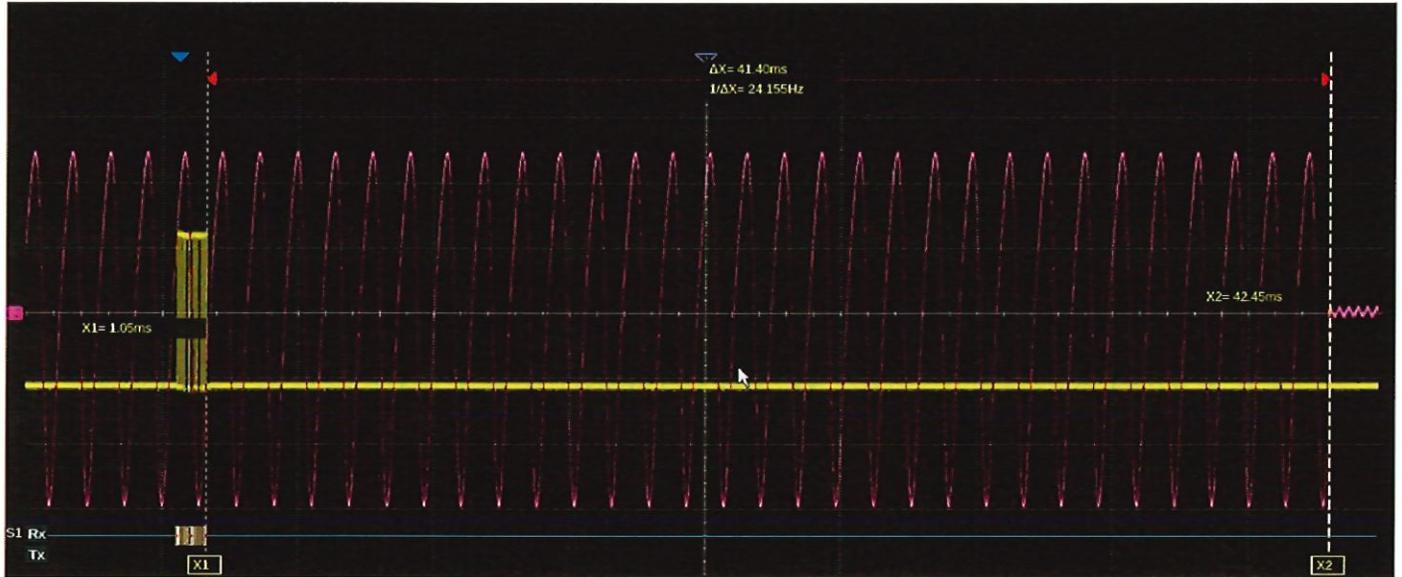
1 GHz to 2 GHz



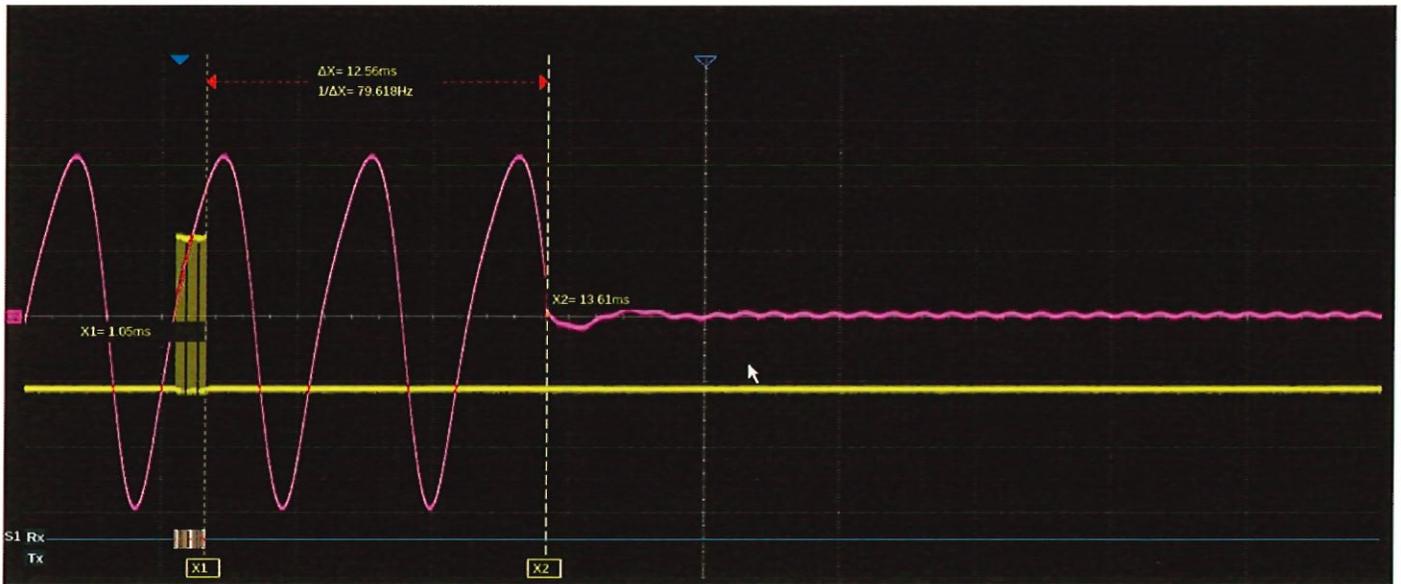
1 GHz to 3 GHz



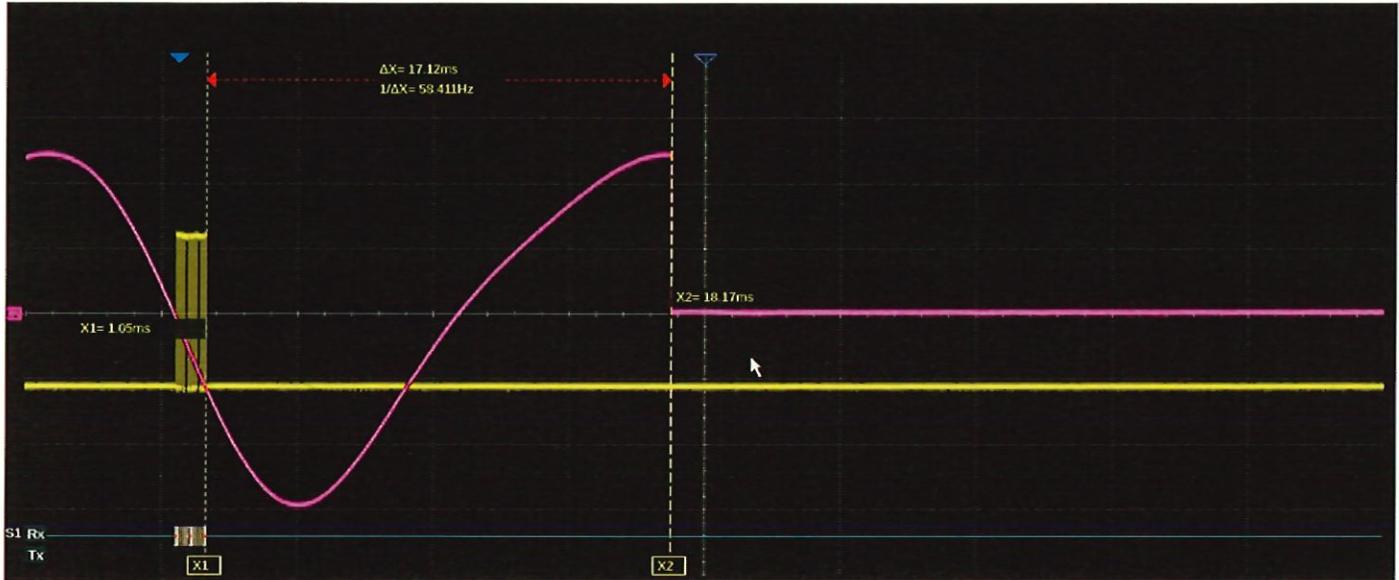
1 GHz to 4 GHz



1 GHz to 5 GHz



1 GHz to 10 GHz



1 GHz to 20 GHz

