TYPICAL CHARACTERISTICS ON LM-20M18G-100W-15DBM-GOLD

PMI MODEL LM-20M18M-100W-15DBM-GOLD IS AN RF LIMITER THAT OPERATES IN THE 20 MHz TO 18 GHz FREQUENCY RANGE. THIS LIMITER FEATURES 100 W CW POWER AHNDLING, 100 ns RECOVERY TIME, AND 15 dBm MAXIMUM LEAKAGE.

July 27, 2026

Tested By:
John R.

Reported by:
Gabriela M.

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

TYPICAL CHARACTERISTICS ON LM-20M18G-100W-15DBM-GOLD

Outline Drawing

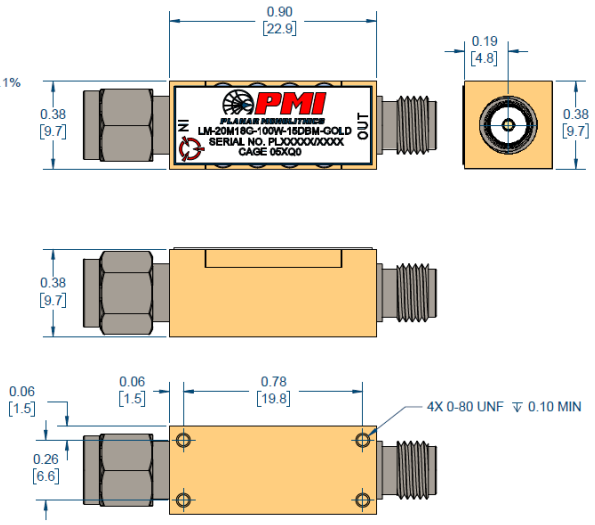
DESCRIPTION:

PMI MODEL LM-20M18G-100W-15DBM-GOLD IS A 20 MHz TO 18 GHz RF LIMTIER FEATURING 100 W CW POWER HANDLING, 1 kW PEAK POWER HANDLING, AND 15 dBm MAXIMUM LEAKAGE.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/6/2026	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 20 MHz TO 18 GHz
- VSWR @ -10 dBm INPUT POWER:..... 2.0:1 MAX
- INSERTION LOSS @ -10 dBm INPUT POWER:..... 2.6 dB MAX
- RF POWER HANDLING:..... 100 W CW MAX
  1 kW PEAK MAX (1 us PULSE WIDTH, 0.1% DUTY CYCLE)
- LEAKAGE POWER:..... +15 dBm MAX AT 100 W CW
- LIMITING THRESHOLD P1dB:..... +5 dBm MIN
- RECOVERY TIME @ 1000 W PEAK POWER:..... 100 ns MAX
- CONNECTORS:..... SMA FEMALE OUTPUT
  SMA MALE INPUT
- WEIGHT:..... 0.705 OZ MAX
- FINISH:..... GOLD PLATED



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
  -55°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103 COND. B
- SHOCK:..... MIL-STD-202, METHOD 213 COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204 COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107 COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE.
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN: G MENDEZ	1/6/2026
REDRAWN	
ISSUED	

PMI PLANAR MONOLITHICS
TITLE: OUTLINE
LM-20M18G-100W-15DBM-GOLD
SIZE: B | FSCM NO.: 05XQ0 | DWG NO.: 27053981 | REV.: A1
SCALE 4:1 | SHEET 1 OF 1

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TYPICAL CHARACTERISTICS ON LM-20M18G-100W-15DBM-GOLD

Technical Specifications

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	20 MHz to 18 GHz	**20MHz to 18GHz (See Plot)**	
2	RF Power Handling	100 W CW Max.	**Pass (See Graphs)**	
		1 kW Peak Max (1us PW, 0.1% DC)	**Pass By Design**	
3	Insertion Loss:	2.6 dB Max @ -10 dBm INPUT POWER	**2.41 dB (See Plot)**	
4	Recovery Time:	100 ns Max. @ 1000 W Peak Power	**91.11ns (See Plots)**	
5	Leakage Power	+15 dBm Max @ 100 W CW	**+14.94 dBm (See Graphs)**	
6	VSWR:	2.0:1 Max (AT -10 dBm INPUT)	**Input 1.75:1 Output 1.83:1 (See Plot)**	
7	Limiting Threshold: (P1dB)	+5 dBm Min	**Pass (See Graphs)**	

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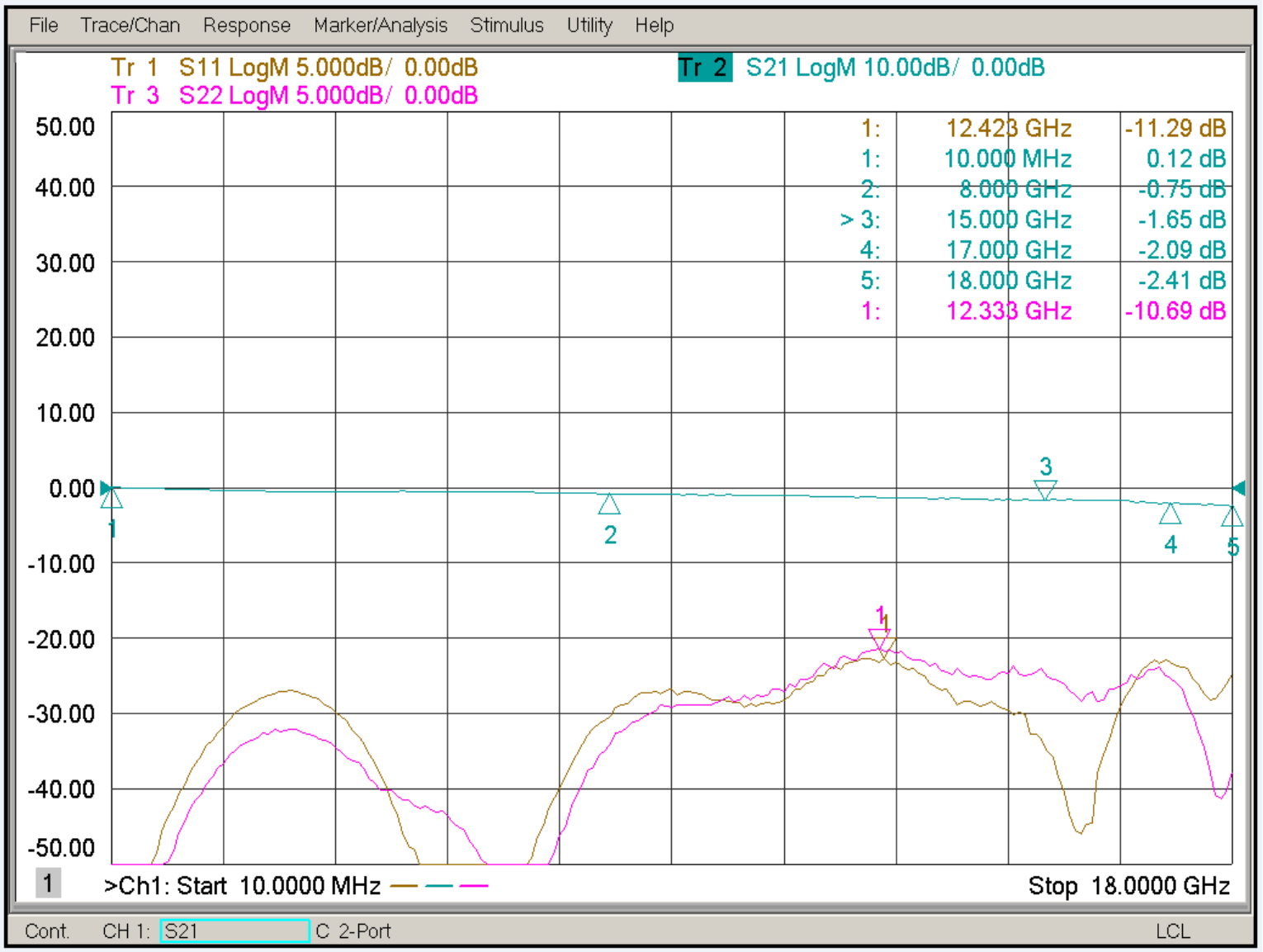
(J1-J2) Insertion Loss and Return Loss



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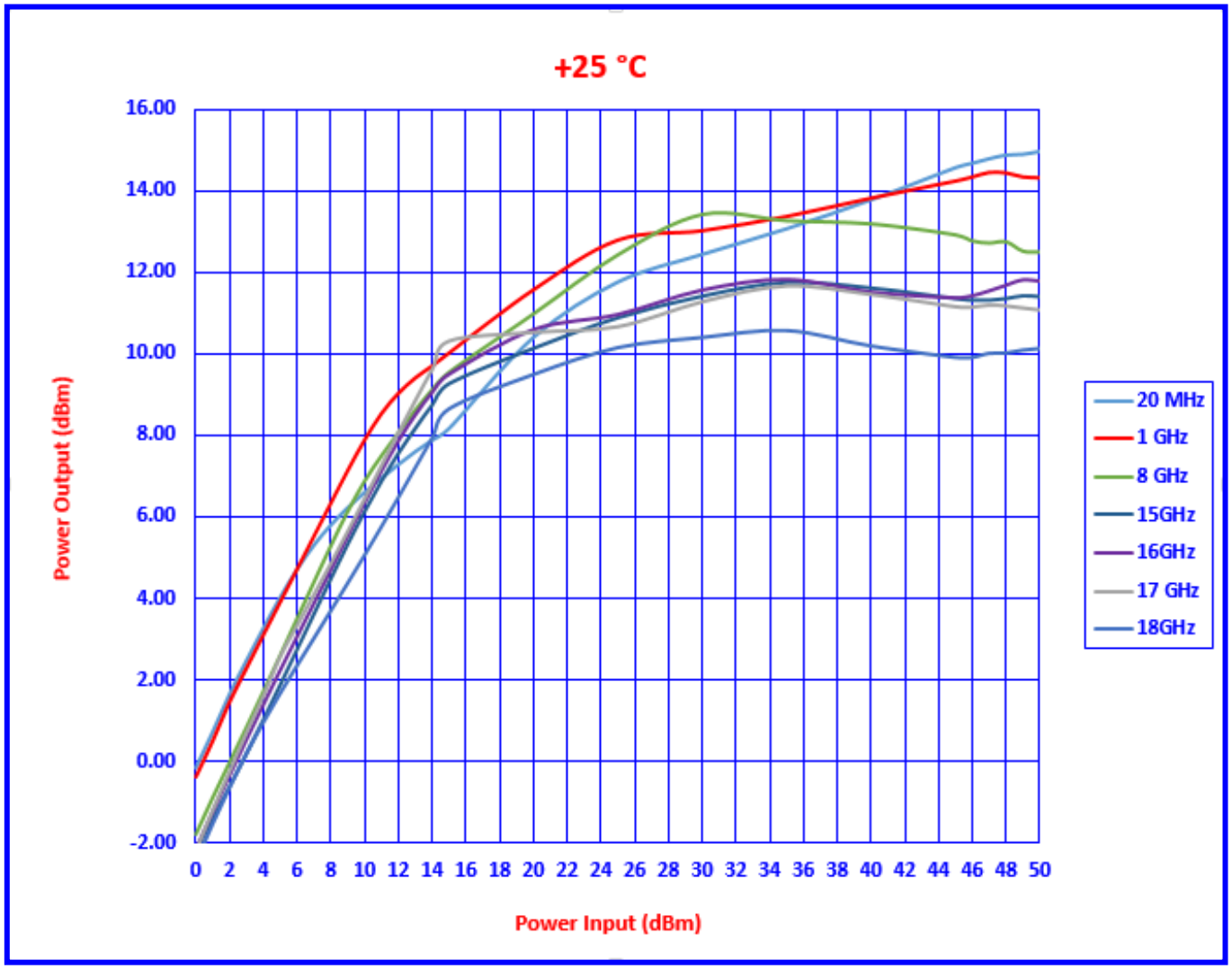
Graph High Power Test (CW)



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TYPICAL CHARACTERISTICS ON LM-20M18G-100W-15DBM-GOLD

Data High Power Test (CW)

+25 °C																				
20 MHz			1GHz			8GHz			15 GHz			16 GHz			17 GHz			18 GHz			
POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	
0	-0.17	0.17	0	-0.41	0.41	0	-1.82	1.82	0	-2.21	2.21	0	-2.14	2.14	0	-2.20	2.20	0	-2.47	2.47	
1	0.71	0.29	1	0.48	0.52	1	-0.91	1.91	1	-1.42	2.42	1	-1.22	2.22	1	-1.20	2.20	1	-1.53	2.53	
2	1.64	0.36	2	1.43	0.57	2	-0.05	2.05	2	-0.62	2.62	2	-0.33	2.33	2	-0.25	2.25	2	-0.64	2.64	
3	2.47	0.53	3	2.27	0.73	3	0.82	2.18	3	0.18	2.82	3	0.55	2.45	3	0.70	2.30	3	0.20	2.80	
4	3.26	0.74	4	3.08	0.92	4	1.70	2.31	4	1.02	2.98	4	1.41	2.59	4	1.60	2.40	4	0.96	3.04	
5	**4.02**	**0.98**	**5**	**3.89**	**1.11**	**5**	**2.59**	**2.41**	**5**	**1.87**	**3.13**	**5**	**2.25**	**2.75**	**5**	**2.56**	**2.44**	**5**	**1.68**	**3.32**	**P1dB**
6	4.71	1.29	6	4.70	1.30	6	3.48	2.52	6	2.74	3.26	6	3.08	2.92	6	3.32	2.68	6	2.36	3.64	
7	5.30	1.70	7	5.51	1.49	7	4.38	2.62	7	3.61	3.39	7	3.90	3.10	7	4.08	2.92	7	3.03	3.97	
8	5.80	2.20	8	6.32	1.68	8	5.27	2.73	8	4.48	3.52	8	4.72	3.28	8	4.85	3.15	8	3.70	4.30	
9	6.22	2.78	9	7.12	1.88	9	6.12	2.88	9	5.33	3.67	9	5.55	3.45	9	5.63	3.37	9	4.38	4.62	
10	6.60	3.40	10	7.87	2.13	10	6.86	3.14	10	6.13	3.87	10	6.37	3.63	10	6.43	3.57	10	5.07	4.93	
11	6.95	4.05	11	8.51	2.49	11	7.48	3.52	11	6.87	4.13	11	7.15	3.85	11	7.24	3.76	11	5.77	5.23	
12	7.29	4.71	12	9.01	2.99	12	8.04	3.96	12	7.56	4.44	12	7.88	4.12	12	8.05	3.95	12	6.49	5.52	
13	7.60	5.40	13	9.39	3.61	13	8.60	4.40	13	8.17	4.83	13	8.52	4.48	13	8.83	4.17	13	7.22	5.78	
14	7.88	6.12	14	9.68	4.32	14	9.10	4.90	14	8.74	5.26	14	9.07	4.93	14	9.59	4.41	14	7.94	6.06	
15	8.17	6.83	15	10.00	5.00	15	9.53	5.47	15	9.26	5.74	15	9.52	5.48	15	10.29	4.71	15	8.66	6.34	
20	10.41	9.59	20	11.55	8.45	20	10.96	9.04	20	10.13	9.87	20	10.61	9.39	20	10.50	9.50	20	9.50	10.50	
25	11.77	13.23	25	12.77	12.23	25	12.41	12.59	25	10.88	14.12	25	10.98	14.02	25	10.64	14.36	25	10.16	14.84	
30	12.45	17.55	30	13.00	17.00	30	13.40	16.60	30	11.41	18.59	30	11.58	18.42	30	11.25	18.75	30	10.41	19.59	
35	13.08	21.92	35	13.35	21.65	35	13.25	21.75	35	11.75	23.25	35	11.84	23.16	35	11.64	23.36	35	10.58	24.42	**20W**
40	13.79	26.21	40	13.80	26.20	40	13.17	26.83	40	11.61	28.39	40	11.53	28.47	40	11.43	28.57	40	10.20	29.80	**25W**
45	14.58	30.42	45	14.22	30.78	45	12.90	32.10	45	11.35	33.65	45	11.39	33.61	45	11.13	33.87	45	9.92	35.08	**32W**
46	14.69	31.31	46	14.32	31.68	46	12.75	33.25	46	11.31	34.69	46	11.44	34.56	46	11.12	34.88	46	9.92	36.08	**40W**
47	14.8	32.20	47	14.43	32.57	47	12.7	34.30	47	11.31	35.69	47	11.56	35.44	47	11.17	35.83	47	10.02	36.98	**50W**
48	14.89	33.11	48	14.42	33.58	48	12.73	35.27	48	11.35	36.65	48	11.70	36.30	48	11.15	36.85	48	10.03	37.97	**63W**
49	14.91	34.09	49	14.32	34.68	49	12.5	36.50	49	11.42	37.58	49	11.83	37.17	49	11.10	37.90	49	10.10	38.90	**80W**
50	**14.98**	**35.02**	**50**	**14.30**	**35.70**	**50**	**12.48**	**38**	**50**	**11.40**	**38.60**	**50**	**11.80**	**38.20**	**50**	**11.05**	**38.95**	**50**	**10.14**	**39.86**	**100W**

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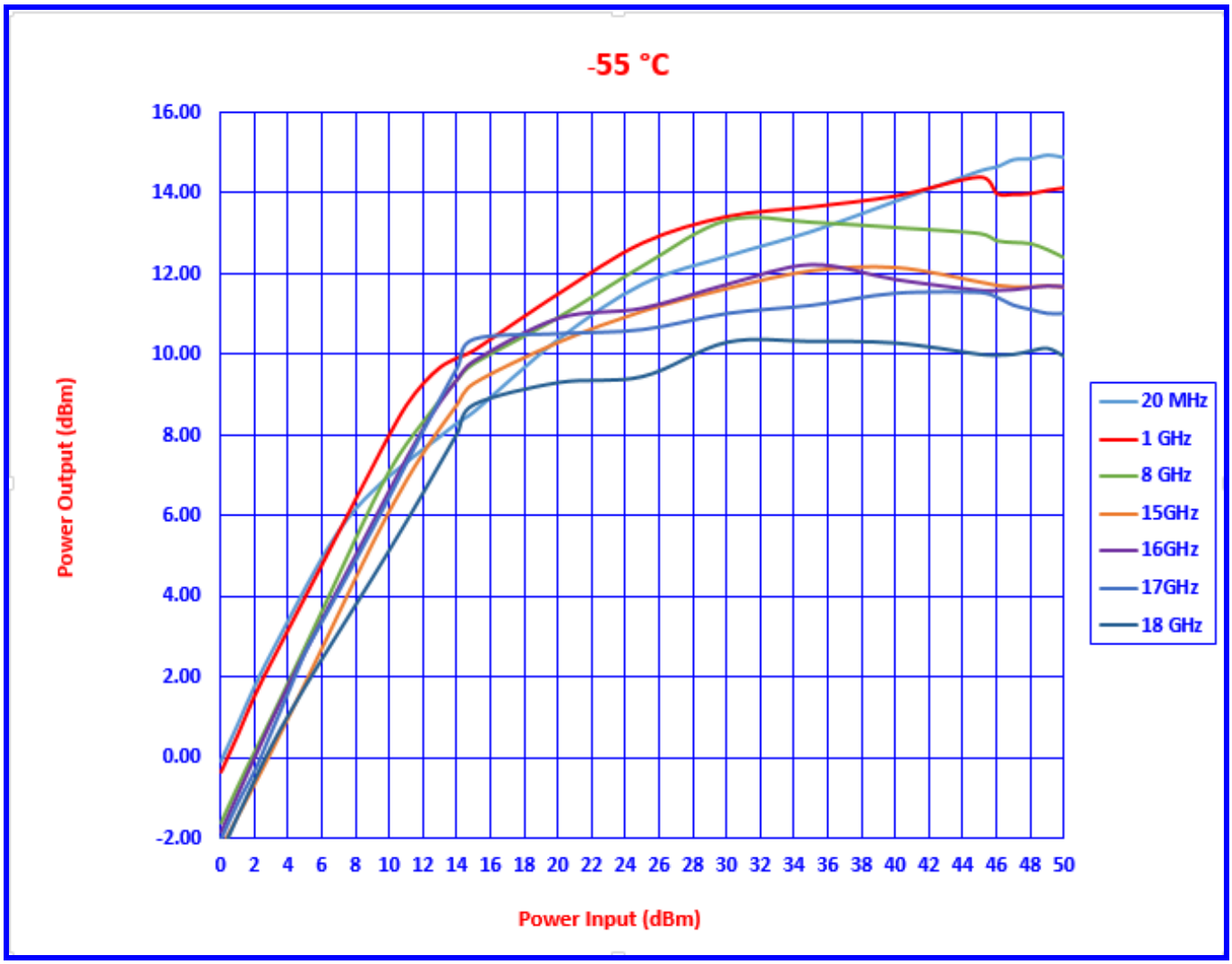
Graph High Power Test (CW)



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PLANAR MONOLITHICS

TYPICAL CHARACTERISTICS ON LM-20M18G-100W-15DBM-GOLD

Data High Power Test (CW)

-55 °C																				
20 MHz			1GHz			8GHz			15 GHz			16 GHz			17 GHz			18 GHz			
POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	
0	-0.06	0.06	0	-0.34	0.34	0	-1.61	1.61	0	-2.23	2.23	0	-1.83	1.83	0	-2.00	2.00	0	-2.39	2.39	
1	0.86	0.14	1	0.58	0.42	1	-0.70	1.70	1	-1.44	2.44	1	-0.89	1.89	1	-1.10	2.10	1	-1.44	2.44	
2	1.81	0.19	2	1.56	0.44	2	0.15	1.85	2	-0.64	2.64	2	0.03	1.97	2	-0.30	2.30	2	-0.55	2.55	
3	2.64	0.36	3	2.39	0.61	3	1.01	1.99	3	0.17	2.83	3	0.93	2.07	3	0.66	2.34	3	0.29	2.71	
4	3.44	0.56	4	3.20	0.80	4	1.88	2.12	4	1.00	3.00	4	1.81	2.19	4	1.64	2.36	4	1.05	2.95	
5	**4.23**	**0.77**	**5**	**4.00**	**1.00**	**5**	**2.76**	**2.24**	**5**	**1.86**	**3.14**	**5**	**2.65**	**2.35**	**5**	**2.63**	**2.37**	**5**	**1.77**	**3.23**	**P1dB**
6	4.98	1.02	6	4.81	1.19	6	3.65	2.35	6	2.73	3.27	6	3.46	2.54	6	3.39	2.61	6	2.45	3.55	
7	5.66	1.35	7	5.62	1.38	7	4.55	2.45	7	3.60	3.40	7	4.25	2.75	7	4.15	2.85	7	3.12	3.88	
8	6.19	1.81	8	6.43	1.57	8	5.45	2.55	8	4.47	3.53	8	5.05	2.95	8	4.91	3.09	8	3.79	4.21	
9	6.63	2.37	9	7.23	1.77	9	6.33	2.67	9	5.32	3.68	9	5.85	3.15	9	5.69	3.31	9	4.47	4.53	
10	7.01	2.99	10	8.03	1.97	10	7.13	2.87	10	6.13	3.87	10	6.65	3.35	10	6.49	3.51	10	5.16	4.84	
11	7.34	3.66	11	8.75	2.25	11	7.78	3.22	11	6.87	4.13	11	7.44	3.56	11	7.30	3.70	11	5.86	5.14	
12	7.67	4.33	12	9.28	2.72	12	8.34	3.66	12	7.56	4.44	12	8.18	3.82	12	8.11	3.89	12	6.58	5.42	
13	7.98	5.02	13	9.68	3.32	13	8.88	4.12	13	8.17	4.83	13	8.84	4.16	13	8.90	4.10	13	7.31	5.69	
14	8.31	5.69	14	9.91	4.09	14	9.38	4.62	14	8.75	5.25	14	9.39	4.61	14	9.66	4.34	14	8.04	5.96	
15	8.59	6.41	15	10.10	4.90	15	9.78	5.22	15	9.27	5.73	15	9.85	5.15	15	10.37	4.63	15	8.76	6.24	
20	10.38	9.62	20	11.50	8.50	20	10.92	9.08	20	10.28	9.72	20	10.91	9.09	20	10.50	9.50	20	9.30	10.70	
25	11.75	13.25	25	12.76	12.24	25	12.20	12.80	25	11.05	13.95	25	11.16	13.84	25	10.60	14.40	25	9.45	15.55	
30	12.44	17.56	30	13.41	16.59	30	13.33	16.67	30	11.61	18.39	30	11.75	18.25	30	11.00	19.00	30	10.30	19.70	
35	13.05	21.95	35	13.65	21.35	35	13.28	21.72	35	12.05	22.95	35	12.24	22.76	35	11.20	23.80	35	10.32	24.68	**20W**
40	13.80	26.20	40	13.92	26.08	40	13.15	26.85	40	12.13	27.87	40	11.87	28.13	40	11.50	28.50	40	10.28	29.72	**25W**
45	14.55	30.45	45	14.39	30.61	45	13.00	32.00	45	11.77	33.23	45	11.60	33.40	45	11.52	33.48	45	10.00	35.00	**32W**
46	14.65	31.35	46	13.98	32.02	46	12.82	33.18	46	11.69	34.31	46	11.60	34.40	46	11.40	34.60	46	9.98	36.02	**40W**
47	14.83	32.17	47	13.96	33.04	47	12.78	34.22	47	11.65	35.35	47	11.62	35.38	47	11.2	35.80	47	10.00	37.00	**50W**
48	14.85	33.15	48	13.98	34.02	48	12.75	35.25	48	11.65	36.35	48	11.67	36.33	48	11.10	36.90	48	10.08	37.92	**63W**
49	14.94	34.06	49	14.06	34.94	49	12.6	36.40	49	11.68	37.32	49	11.71	37.29	49	11.00	38.00	49	10.15	38.85	**80W**
50	**14.88**	**35.12**	**50**	**14.12**	**35.88**	**50**	**12.40**	**37.60**	**50**	**11.65**	**38.35**	**50**	**11.69**	**38.31**	**50**	**11.00**	**39.00**	**50**	**9.95**	**40.05**	**100W**

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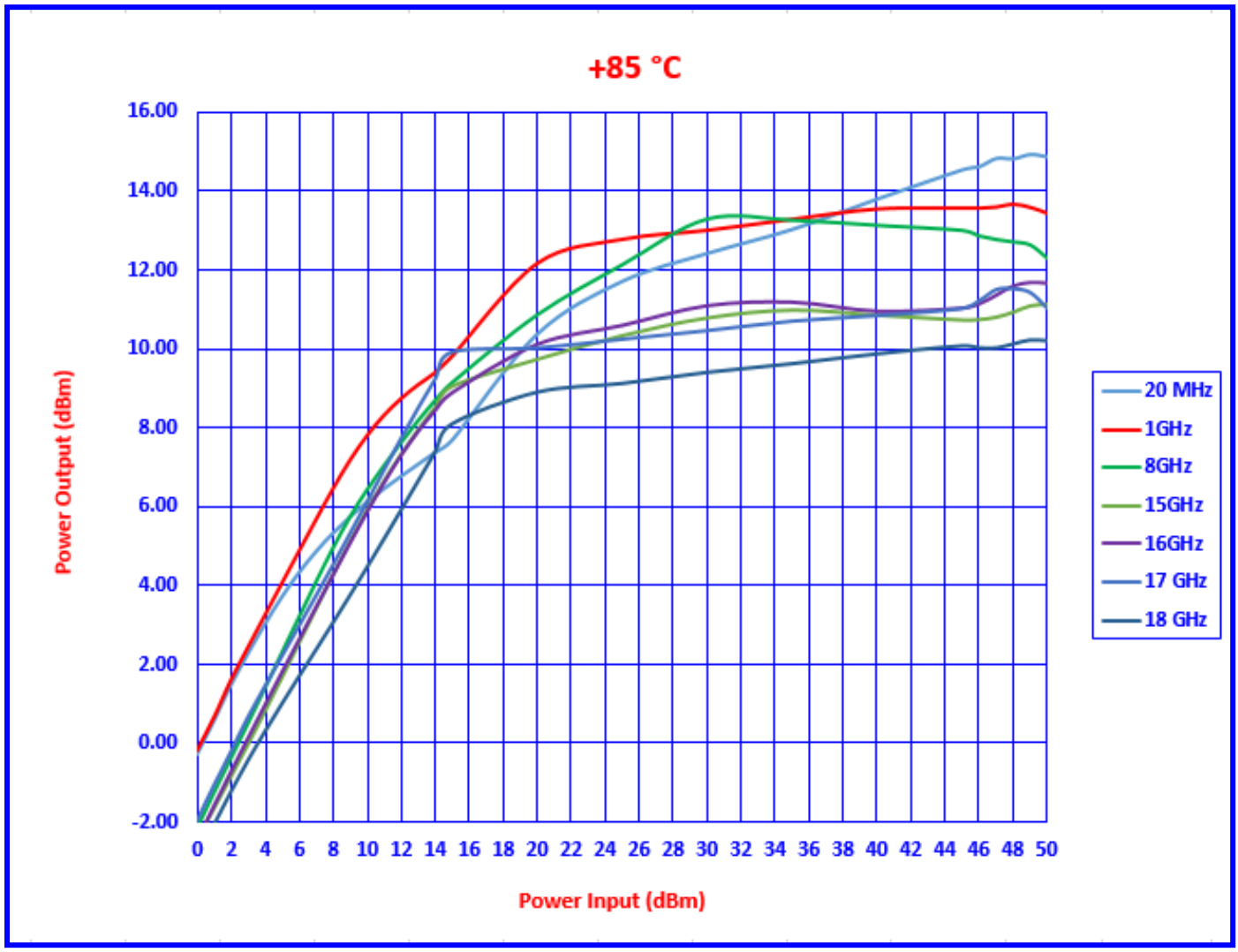
Graph High Power Test (CW)



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Data High Power Test (CW)

+85 °C																				
20 MHz			1GHz			8GHz			15 GHz			16 GHz			17 GHz			18 GHz			
POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	
0	-0.30	0.30	0	-0.19	0.19	0	-2.16	2.16	0	-2.45	2.45	0	-2.49	2.49	0	-1.97	1.97	0	-2.94	2.94	
1	0.54	0.46	1	0.65	0.35	1	-1.25	2.25	1	-1.67	2.67	1	-1.60	2.60	1	-1.07	2.07	1	-2.06	3.06	
2	1.45	0.55	2	1.60	0.40	2	-0.38	2.38	2	-0.86	2.86	2	-0.73	2.73	2	-0.22	2.22	2	-1.22	3.22	
3	2.25	0.75	3	2.42	0.58	3	0.50	2.50	3	-0.04	3.04	3	0.12	2.88	3	0.65	2.35	3	-0.43	3.43	
4	3.00	1.00	4	3.24	0.76	4	1.39	2.61	4	0.80	3.20	4	0.96	3.04	4	1.44	2.56	4	0.30	3.70	
5	**3.69**	**1.31**	**5**	**4.05**	**0.95**	**5**	**2.29**	**2.71**	**5**	**1.66**	**3.34**	**5**	**1.79**	**3.21**	**5**	2.20	2.80	**5**	1.00	4.00	**P1dB**
6	4.30	1.70	6	4.86	1.14	6	3.19	2.81	6	2.54	3.46	6	2.62	3.38	6	2.96	3.04	6	1.69	4.31	
7	4.84	2.16	7	5.66	1.34	7	4.08	2.92	7	3.41	3.59	7	3.44	3.56	7	3.73	3.27	7	2.37	4.63	
8	5.30	2.70	8	6.44	1.56	8	4.95	3.05	8	4.27	3.73	8	4.25	3.75	8	4.51	3.49	8	3.05	4.95	
9	5.72	3.28	9	7.17	1.83	9	5.73	3.27	9	5.12	3.88	9	5.06	3.94	9	5.30	3.70	9	3.75	5.25	
10	6.09	3.91	10	7.79	2.21	10	6.42	3.58	10	5.91	4.09	10	5.85	4.15	10	6.11	3.89	10	4.45	5.55	
11	6.43	4.57	11	8.30	2.70	11	7.03	3.97	11	6.65	4.35	11	6.60	4.40	11	6.91	4.09	11	5.17	5.83	
12	6.75	5.25	12	8.73	3.27	12	7.62	4.38	12	7.33	4.67	12	7.29	4.71	12	7.71	4.29	12	5.90	6.10	
13	7.05	5.95	13	9.08	3.92	13	8.17	4.83	13	7.95	5.05	13	7.89	5.11	13	8.48	4.52	13	6.63	6.37	
14	7.35	6.65	14	9.39	4.61	14	8.68	5.32	14	8.52	5.48	14	8.42	5.58	14	9.21	4.79	14	7.37	6.63	
15	7.66	7.34	15	9.80	5.20	15	9.13	5.87	15	9.06	5.94	15	8.87	6.13	15	9.90	5.10	15	8.08	6.92	
20	10.35	9.65	20	12.15	7.85	20	10.85	9.15	20	9.74	10.26	20	10.10	9.90	20	10.00	10.00	20	8.88	11.12	
25	11.69	13.31	25	12.76	12.24	25	12.12	12.88	25	10.34	14.66	25	10.58	14.42	25	10.22	14.78	25	9.10	15.90	
30	12.40	17.60	30	12.99	17.01	30	13.28	16.72	30	10.79	19.21	30	11.08	18.92	30	10.44	19.56	30	9.38	20.62	
35	13.01	21.99	35	13.27	21.73	35	13.25	21.75	35	10.99	24.01	35	11.17	23.83	35	10.68	24.32	35	9.60	25.40	**20W**
40	13.78	26.22	40	13.53	26.47	40	13.12	26.88	40	10.86	29.14	40	10.94	29.06	40	10.82	29.18	40	9.85	30.15	**25W**
45	14.52	30.48	45	13.55	31.45	45	12.99	32.01	45	10.74	34.26	45	11.02	33.98	45	11.00	34.00	45	10.05	34.95	**32W**
46	14.60	31.40	46	13.55	32.45	46	12.85	33.15	46	10.75	35.25	46	11.13	34.87	46	11.20	34.80	46	10.00	36.00	**40W**
47	14.81	32.19	47	13.58	33.42	47	12.76	34.24	47	10.81	36.19	47	11.35	35.65	47	11.48	35.52	47	10.00	37.00	**50W**
48	14.8	33.20	48	13.65	34.35	48	12.7	35.30	48	10.94	37.06	48	11.58	36.42	48	11.50	36.50	48	10.10	37.90	**63W**
49	14.91	PASS	49	13.57	35.43	49	12.62	36.38	49	11.10	37.90	49	11.67	37.33	49	11.40	37.60	49	10.20	38.80	**80W**
50	**14.85**	**35.15**	**50**	**13.42**	**36.58**	**50**	**12.28**	**37.72**	**50**	**11.14**	**38.86**	**50**	**11.65**	**38.35**	**50**	**11.00**	**39.00**	**50**	**10.18**	**39.82**	**100W**

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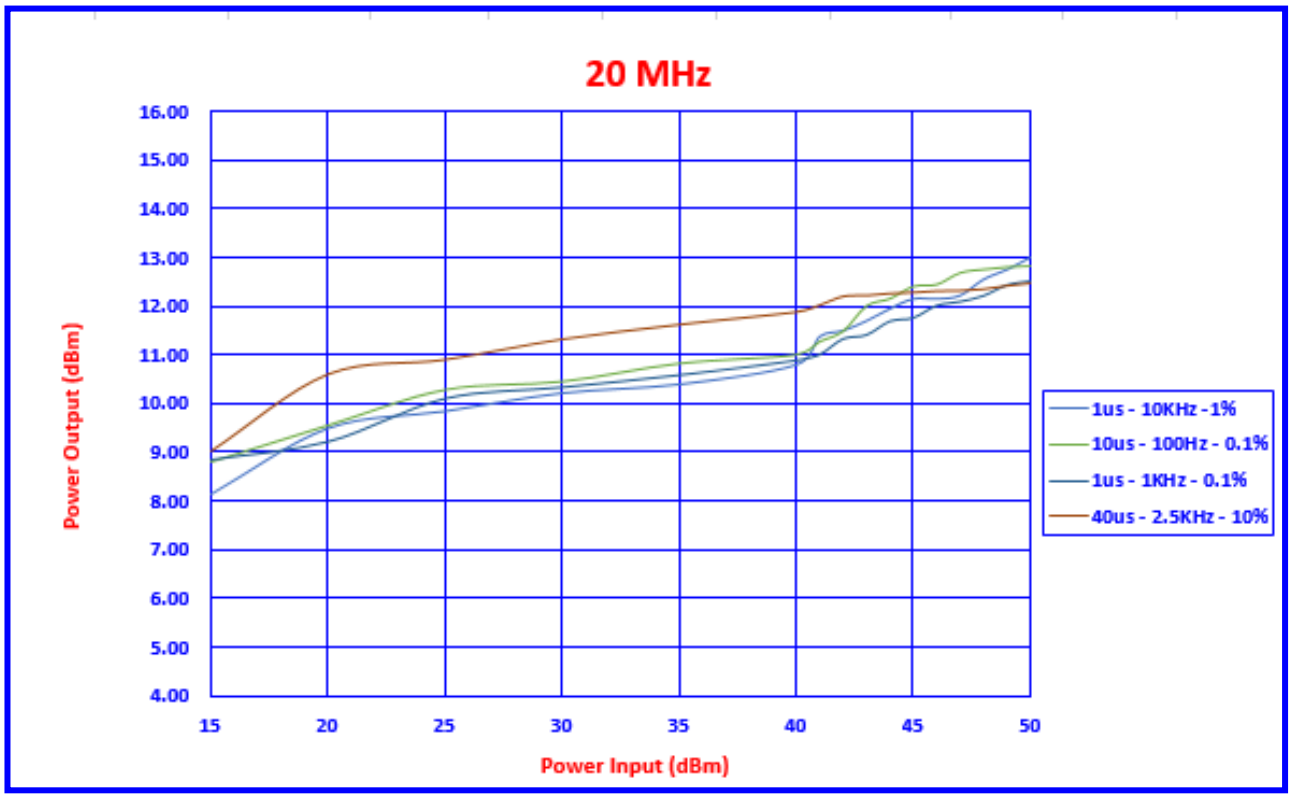
Graph Peak Power Test (Pulsed)



20 MHz								
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	
15	8.15	15	8.80	15	8.85	15	9.00	
20	9.50	20	9.55	20	9.22	20	10.58	
25	9.85	25	10.28	25	10.10	25	10.88	
30	10.22	30	10.45	30	10.33	30	11.30	
35	10.40	35	10.82	35	10.58	35	11.60	
40	10.80	40	11.00	40	10.88	40	11.86	
41	11.38	41	11.27	41	11.00	41	12.00	
42	11.50	42	11.48	42	11.32	42	12.18	
43	11.70	43	12.00	43	11.40	43	12.20	
44	11.95	44	12.15	44	11.68	44	12.24	
45	12.15	45	12.40	45	11.75	45	12.26	
46	12.15	46	12.44	46	12.00	46	12.29	
47	12.22	47	12.68	47	12.08	47	12.30	
48	12.55	48	12.75	48	12.20	48	12.33	
49	12.75	49	12.80	49	12.42	49	12.40	80W
50	**13.00**	**50**	**12.82**	**50**	**12.50**	**50**	**12.45**	100W

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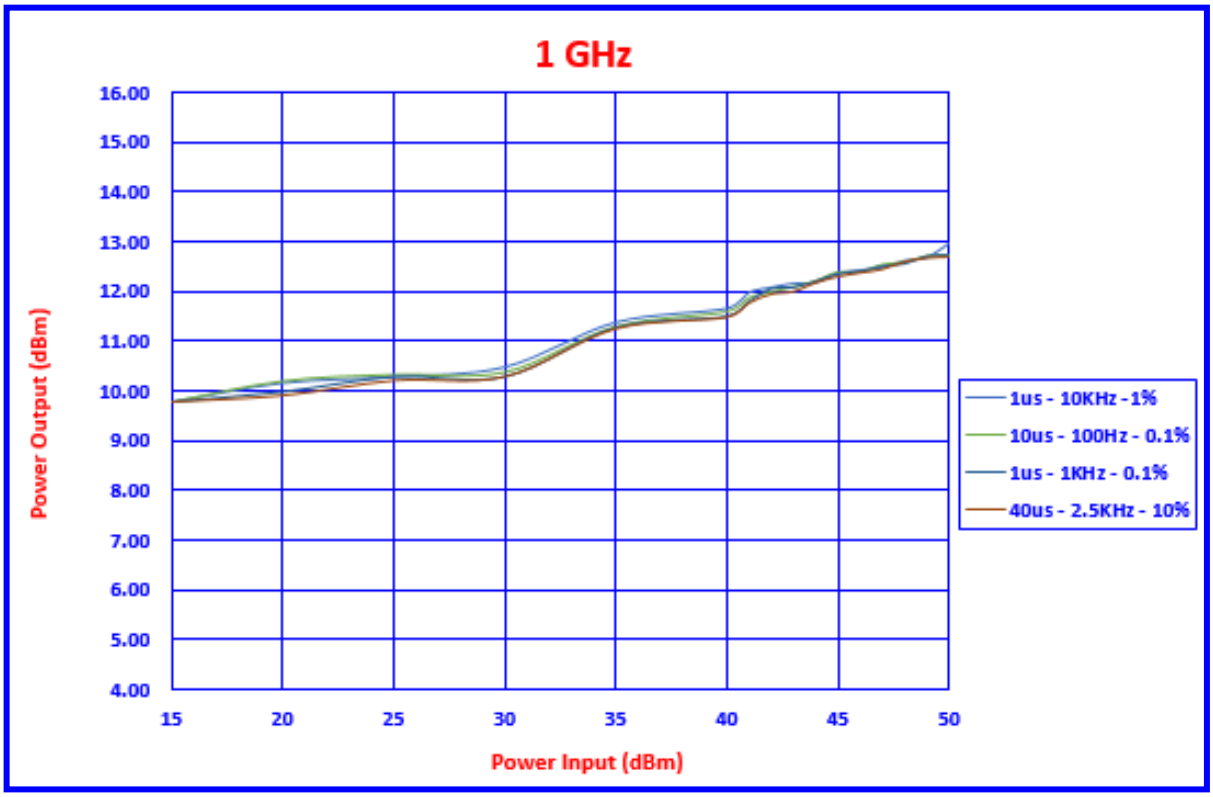
TYPICAL CHARACTERISTICS ON LM-20M18G-100W-15DBM-GOLD

Graph Peak Power Test (Pulsed)



1 GHz								
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	
15	9.80	15	9.78	15	9.80	15	9.77	
20	10.18	20	10.20	20	10.00	20	9.90	
25	10.30	25	10.33	25	10.30	25	10.20	
30	10.50	30	10.38	30	10.30	30	10.28	
35	11.40	35	11.30	35	11.28	35	11.25	
40	11.68	40	11.60	40	11.50	40	11.48	
41	12.00	41	11.88	41	11.80	41	11.77	
42	12.10	42	12.00	42	12.05	42	11.95	
43	12.18	43	12.10	43	12.08	43	12.00	
44	12.20	44	12.22	44	12.20	44	12.18	
45	12.38	45	12.40	45	12.35	45	12.30	
46	12.45	46	12.40	46	12.40	46	12.38	
47	12.50	47	12.55	47	12.50	47	12.45	
48	12.64	48	12.60	48	12.55	48	12.60	
49	12.70	49	12.72	49	12.70	49	12.68	80W
50	**12.98**	**50**	**12.75**	**50**	**12.72**	**50**	**12.70**	100W

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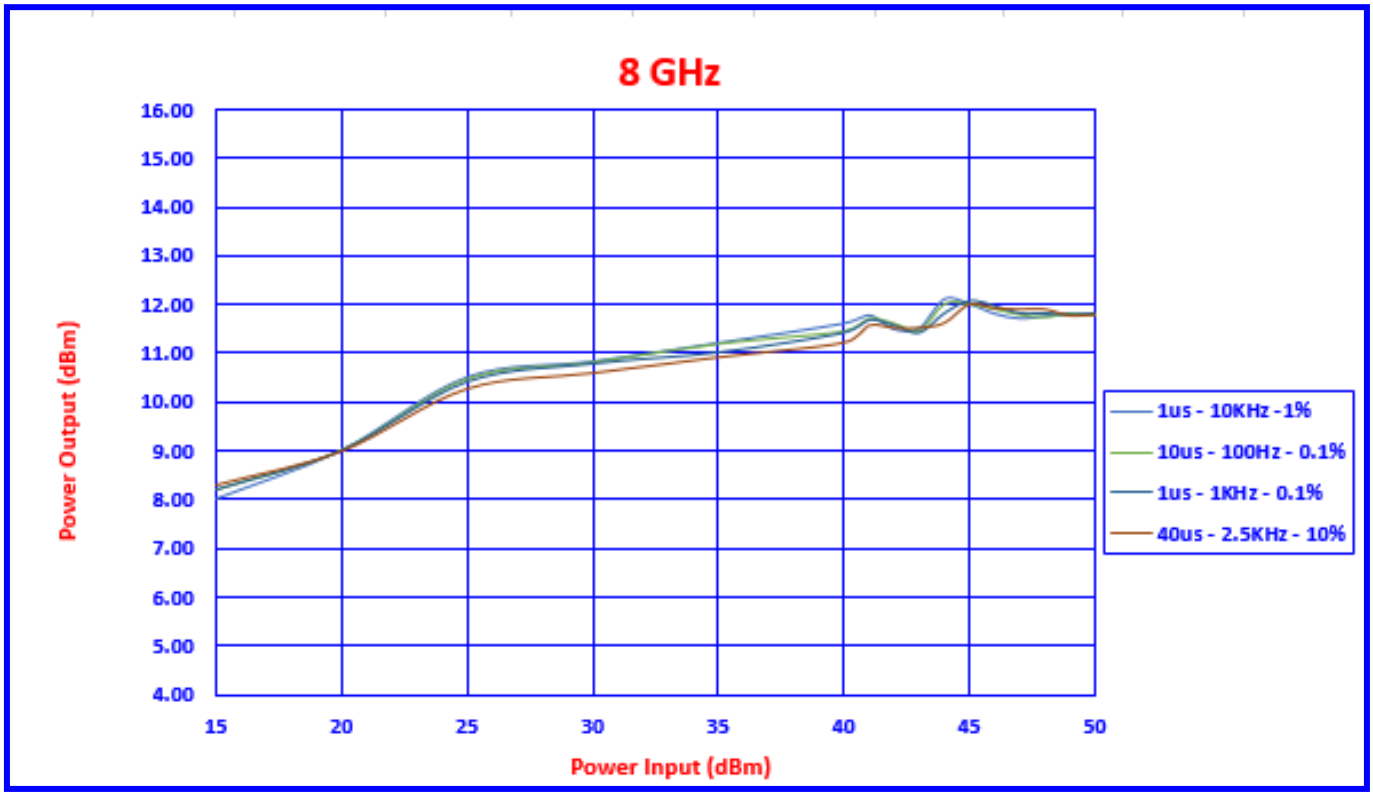
Graph Peak Power Test (Pulsed)



8 GHz								
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	
15	8.00	15	8.18	15	8.20	15	8.30	
20	9.00	20	8.99	20	9.00	20	8.99	
25	10.50	25	10.46	25	10.40	25	10.26	
30	10.82	30	10.80	30	10.77	30	10.58	
35	11.20	35	11.18	35	11.00	35	10.90	
40	11.60	40	11.44	40	11.40	40	11.20	
41	11.77	41	11.70	41	11.66	41	11.55	
42	11.48	42	11.60	42	11.55	42	11.50	
43	11.50	43	11.45	43	11.40	43	11.50	
44	12.10	44	12.00	44	11.80	44	11.60	
45	12.00	45	12.00	45	12.05	45	11.98	
46	11.80	46	11.90	46	11.95	46	11.90	
47	11.7	47	11.78	47	11.8	47	11.88	
48	11.75	48	11.73	48	11.8	48	11.88	
49	11.8	49	11.81	49	11.77	49	11.75	80W
50	**11.70**	**50**	**11.77**	**50**	**11.80**	**50**	**11.77**	100W

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Graph Peak Power Test (Pulsed)

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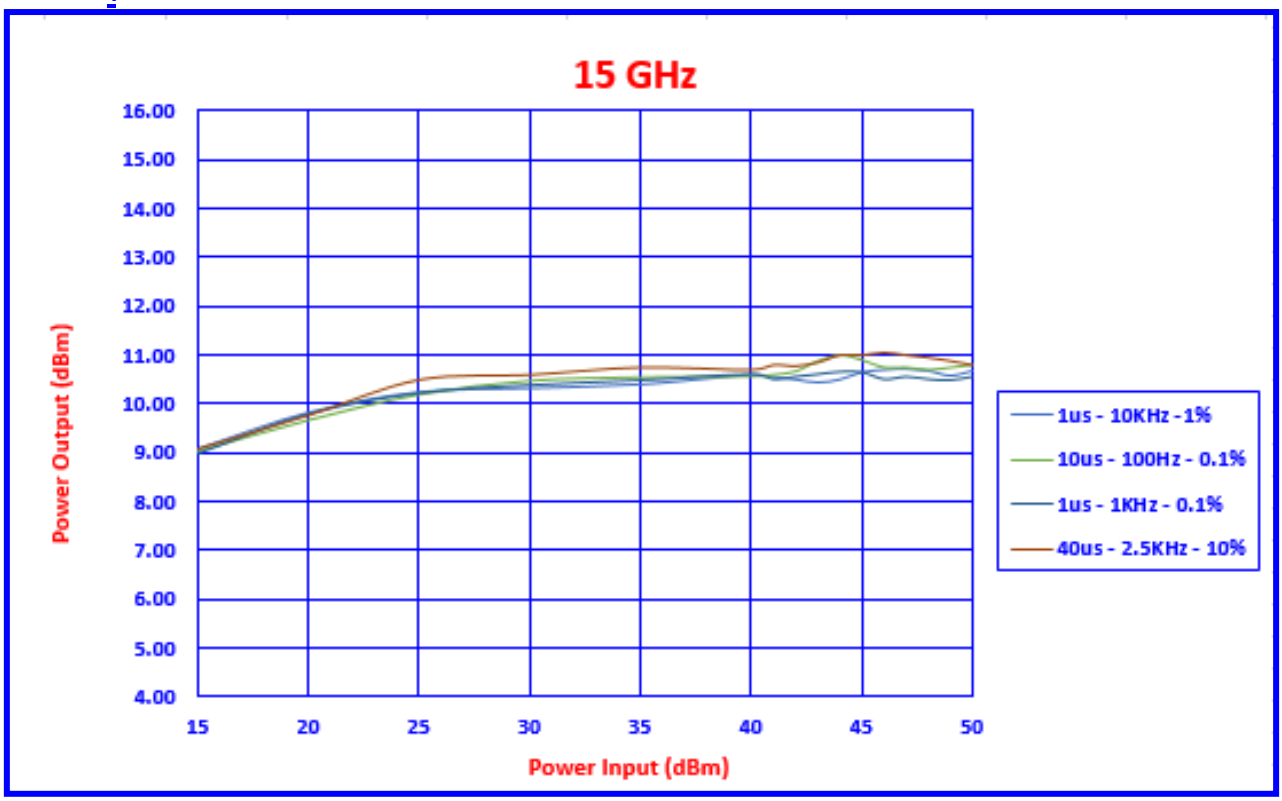

15 GHz								
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	
15	9.07	15	9.05	15	9.00	15	9.10	
20	9.82	20	9.68	20	9.80	20	9.78	
25	10.24	25	10.20	25	10.22	25	10.50	
30	10.32	30	10.48	30	10.38	30	10.60	
35	10.40	35	10.55	35	10.48	35	10.75	
40	10.60	40	10.57	40	10.60	40	10.70	
41	10.55	41	10.60	41	10.50	41	10.80	
42	10.50	42	10.67	42	10.55	42	10.78	
43	10.44	43	10.88	43	10.60	43	10.85	
44	10.50	44	11.00	44	10.65	44	11.00	
45	10.65	45	10.90	45	10.64	45	11.00	
46	10.70	46	10.75	46	10.50	46	11.05	
47	10.72	47	10.75	47	10.55	47	11.00	
48	10.68	48	10.70	48	10.50	48	10.95	
49	10.58	49	10.75	49	10.48	49	10.88	80W
50	**10.68**	**50**	**10.8**	**50**	**10.55**	**50**	**10.80**	100W

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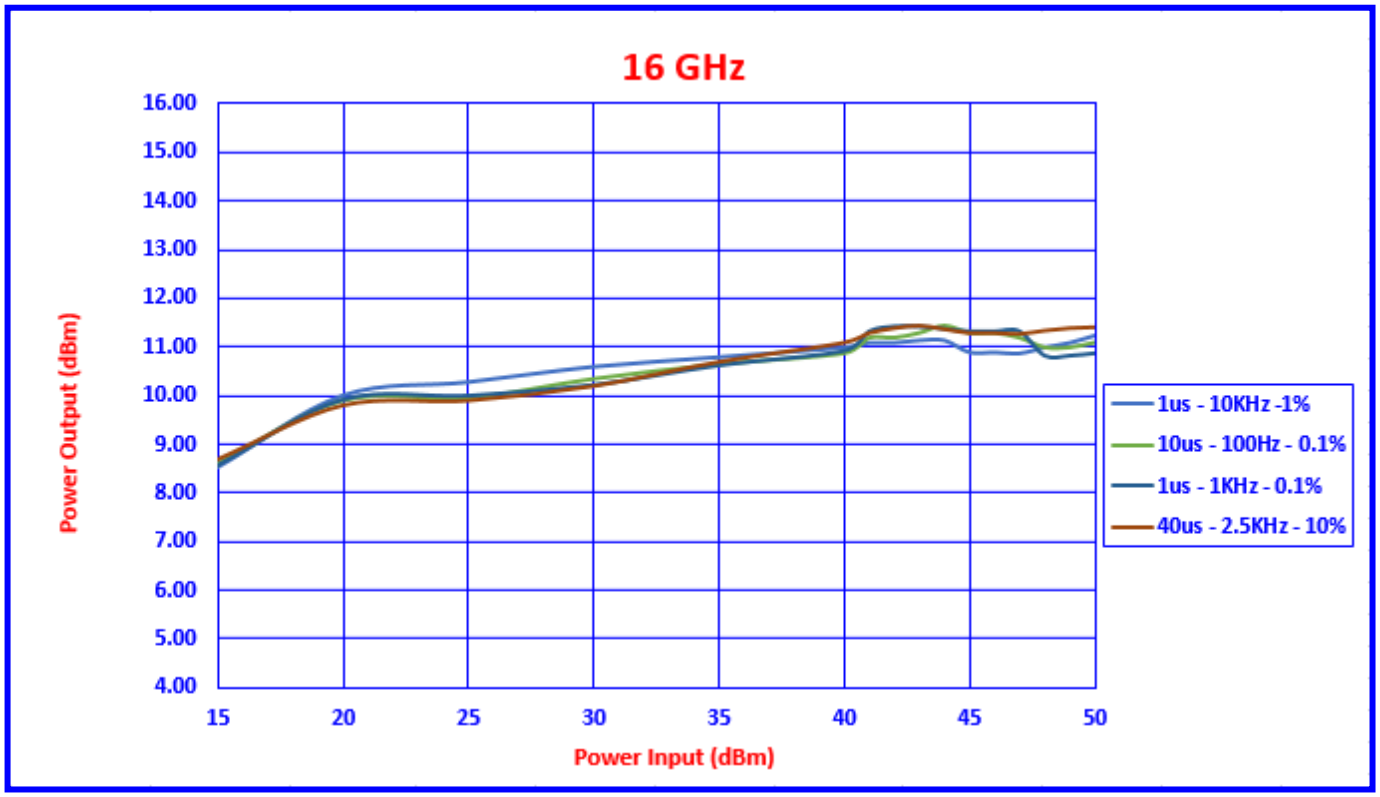
Graph Peak Power Test (Pulsed)



16 GHz								
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	
15	8.50	15	8.60	15	8.55	15	8.68	
20	10.00	20	9.90	20	9.90	20	9.80	
25	10.28	25	9.95	25	9.98	25	9.90	
30	10.60	30	10.35	30	10.20	30	10.20	
35	10.80	35	10.65	35	10.60	35	10.70	
40	11.00	40	10.88	40	10.90	40	11.10	
41	11.10	41	11.20	41	11.30	41	11.30	
42	11.10	42	11.20	42	11.40	42	11.40	
43	11.15	43	11.30	43	11.40	43	11.45	
44	11.15	44	11.45	44	11.35	44	11.38	
45	10.90	45	11.30	45	11.30	45	11.30	
46	10.90	46	11.30	46	11.30	46	11.30	
47	10.88	47	11.20	47	11.30	47	11.28	
48	11.00	48	11.00	48	10.80	48	11.35	
49	11.10	49	11.00	49	10.80	49	11.40	80W
50	**11.25**	**50**	**11.1**	**50**	**10.85**	**50**	**11.42**	100W

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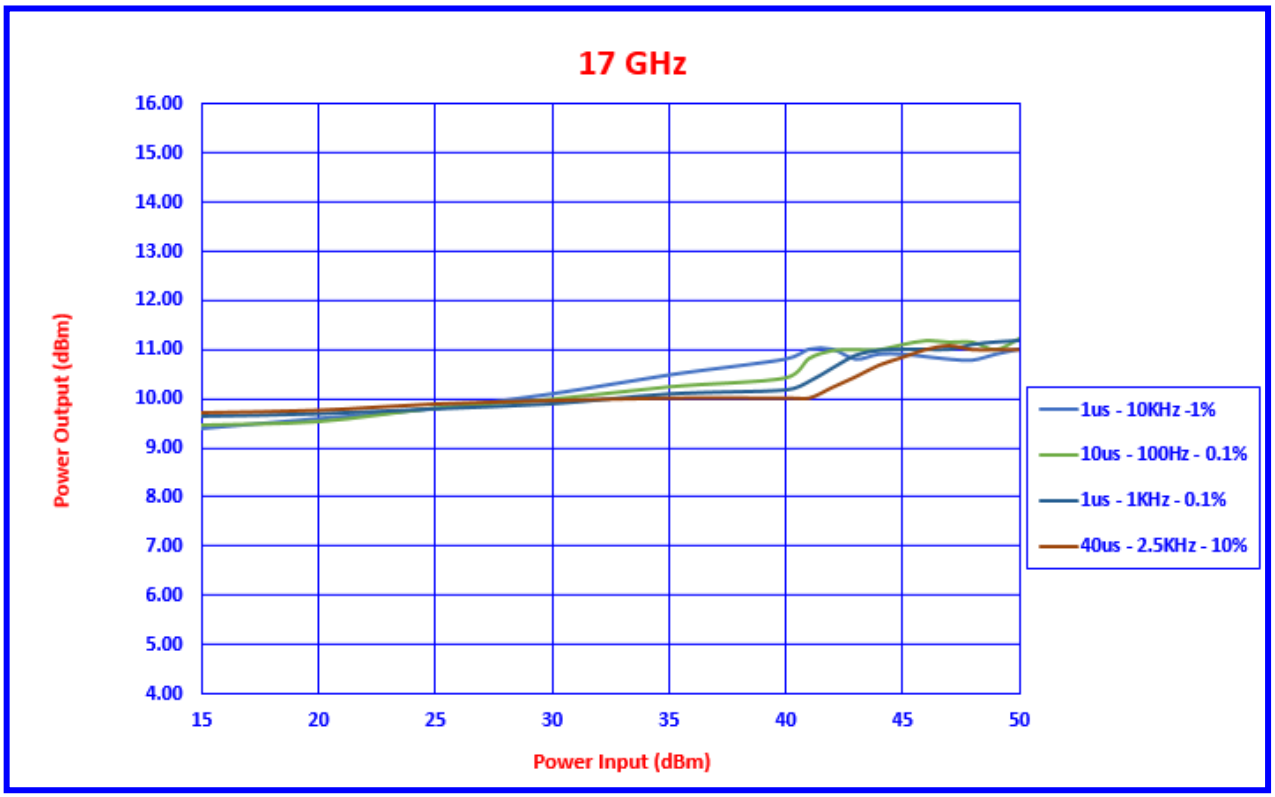
Graph Peak Power Test (Pulsed)



17 GHz								
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	
15	9.40	15	9.48	15	9.65	15	9.70	
20	9.60	20	9.55	20	9.70	20	9.75	
25	9.80	25	9.82	25	9.80	25	9.88	
30	10.10	30	10.00	30	9.90	30	9.95	
35	10.48	35	10.25	35	10.10	35	10.00	
40	10.80	40	10.43	40	10.18	40	10.00	
41	11.00	41	10.82	41	10.35	41	10.00	
42	11.00	42	10.98	42	10.62	42	10.22	
43	10.80	43	11.00	43	10.88	43	10.44	
44	10.90	44	11.00	44	10.98	44	10.68	
45	10.90	45	11.10	45	11.00	45	10.84	
46	10.85	46	11.18	46	11.00	46	11.00	
47	10.80	47	11.15	47	11.00	47	11.08	
48	10.78	48	11.15	48	11.10	48	11.00	
49	10.90	49	11.00	49	11.15	49	11.00	80W
50	**11**	**50**	**11.22**	**50**	**11.18**	**50**	**11**	100W

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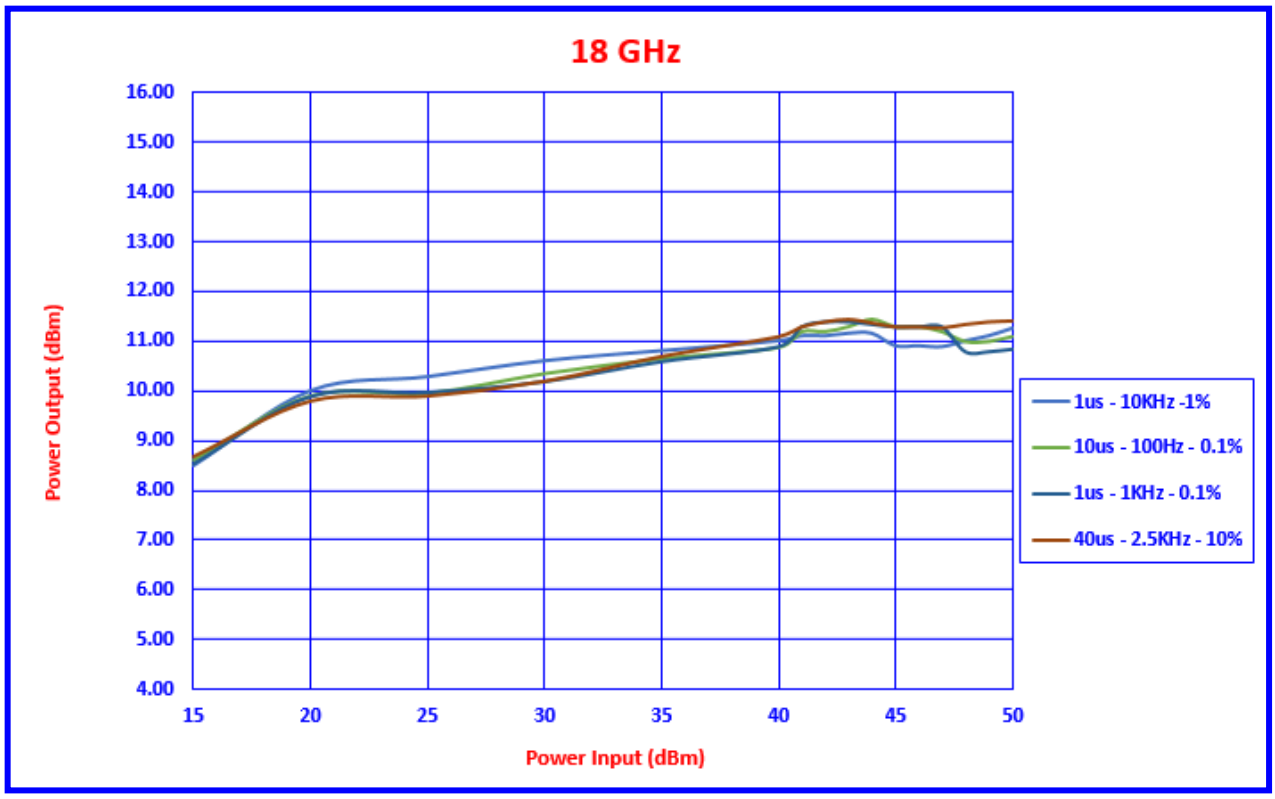
TYPICAL CHARACTERISTICS ON LM-20M18G-100W-15DBM-GOLD

Graph Peak Power Test (Pulsed)



18 GHz								
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	
15	8.20	15	8.30	15	8.44	15	8.00	
20	8.28	20	8.30	20	8.68	20	8.42	
25	8.68	25	8.50	25	8.75	25	8.66	
30	9.00	30	8.90	30	8.99	30	8.82	
35	9.10	35	9.00	35	9.08	35	8.98	
40	9.10	40	9.00	40	9.10	40	9.22	
41	9.15	41	9.20	41	9.10	41	9.40	
42	9.20	42	9.28	42	9.18	42	9.40	
43	9.40	43	9.30	43	9.24	43	9.40	
44	9.68	44	9.30	44	9.33	44	9.30	
45	9.92	45	9.60	45	9.50	45	9.30	
46	9.95	46	9.88	46	9.66	46	9.38	
47	9.95	47	10.00	47	9.88	47	9.38	
48	9.98	48	10.10	48	9.88	48	9.38	
49	10.00	49	10.18	49	9.95	49	9.30	80W
50	**10.14**	**50**	**10.22**	**50**	**9.97**	**50**	**9.50**	100W

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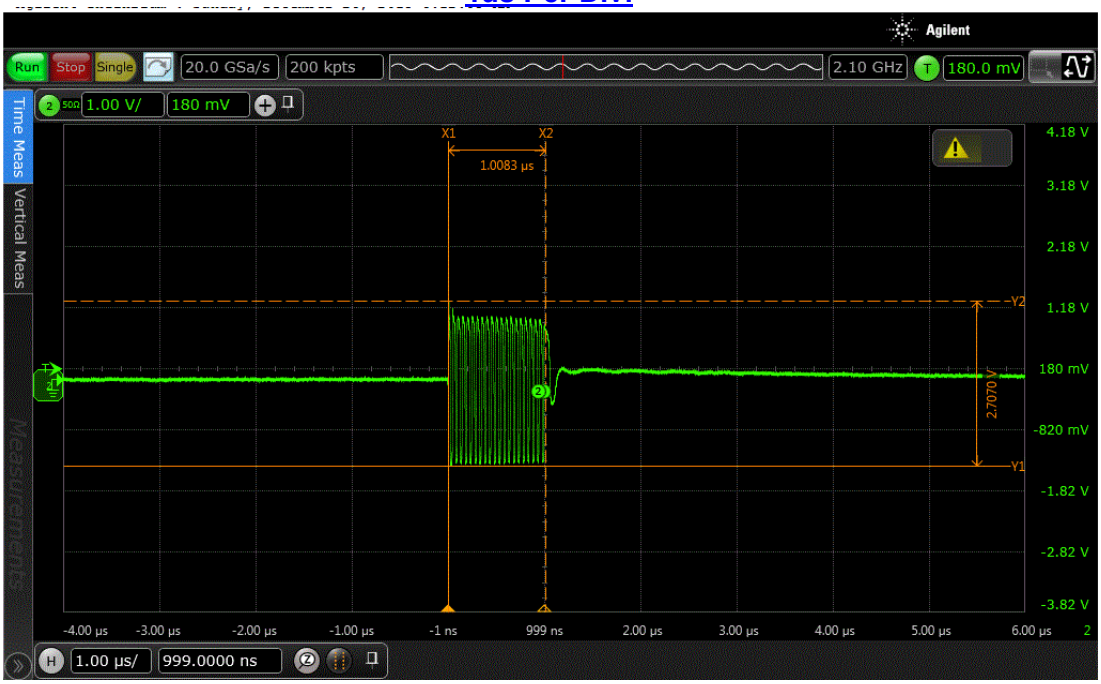
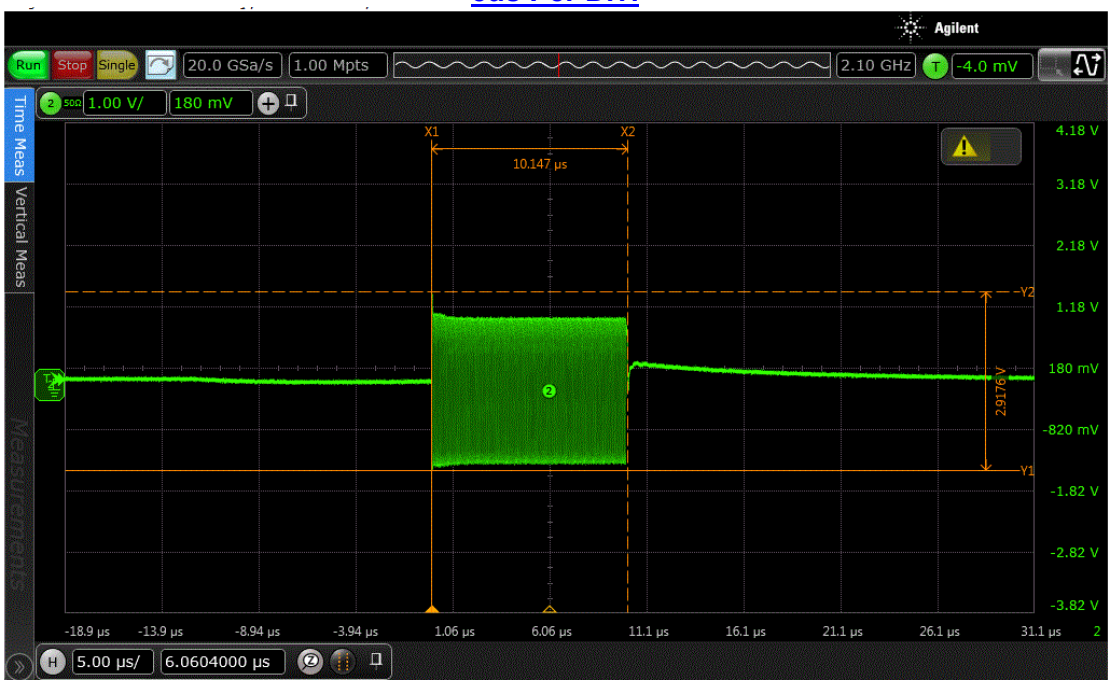
Full Pulse (20MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
1us Per Div.



Full Pulse (20MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5us Per Div.



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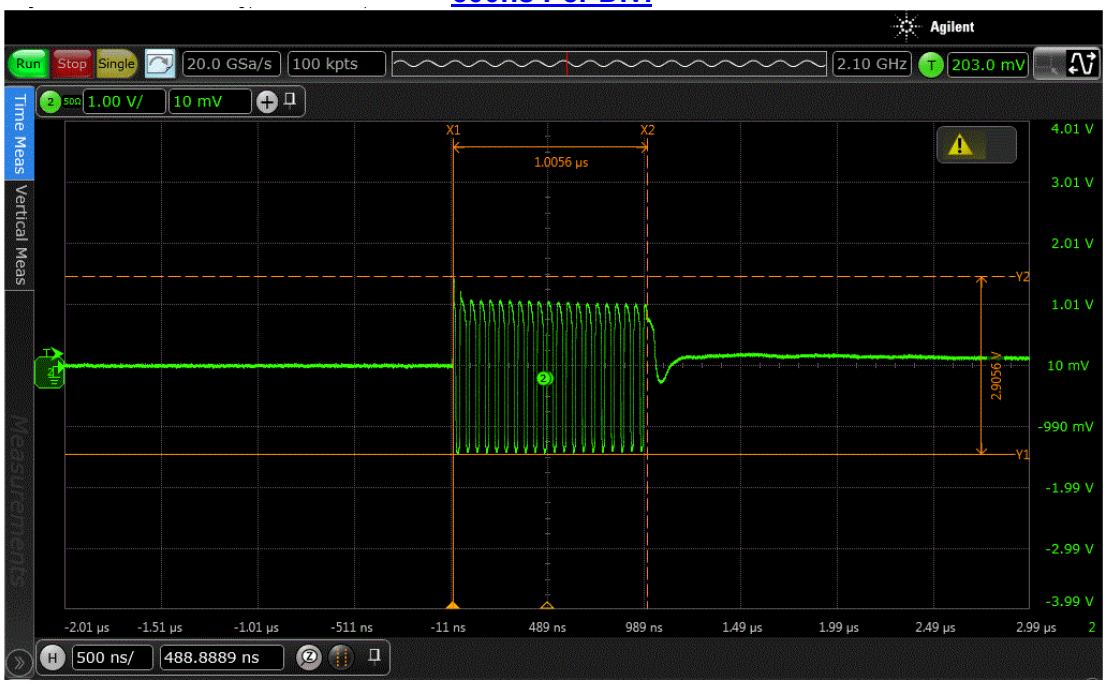
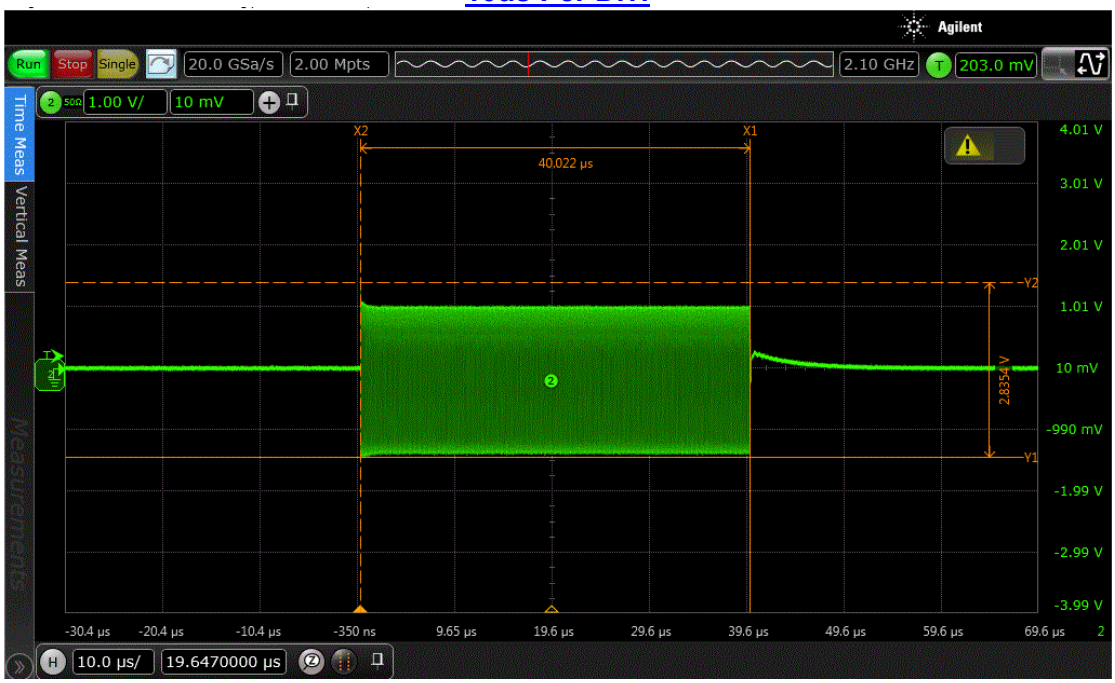
Full Pulse (20MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
500ns Per Div.



Full Pulse (20MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10us Per Div.



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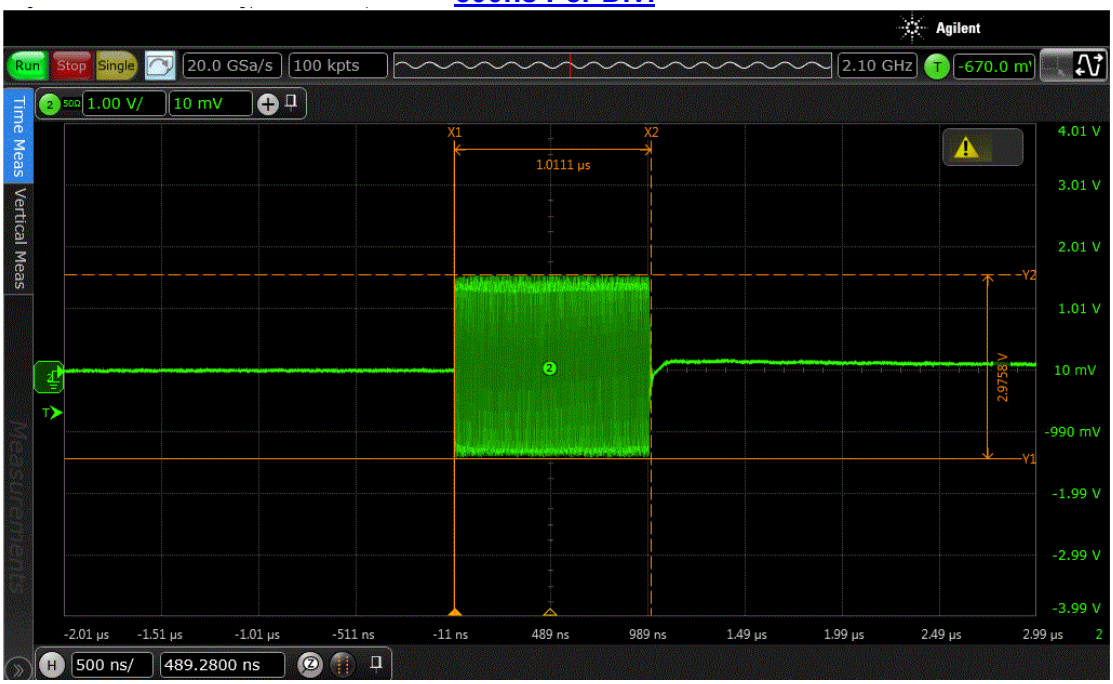
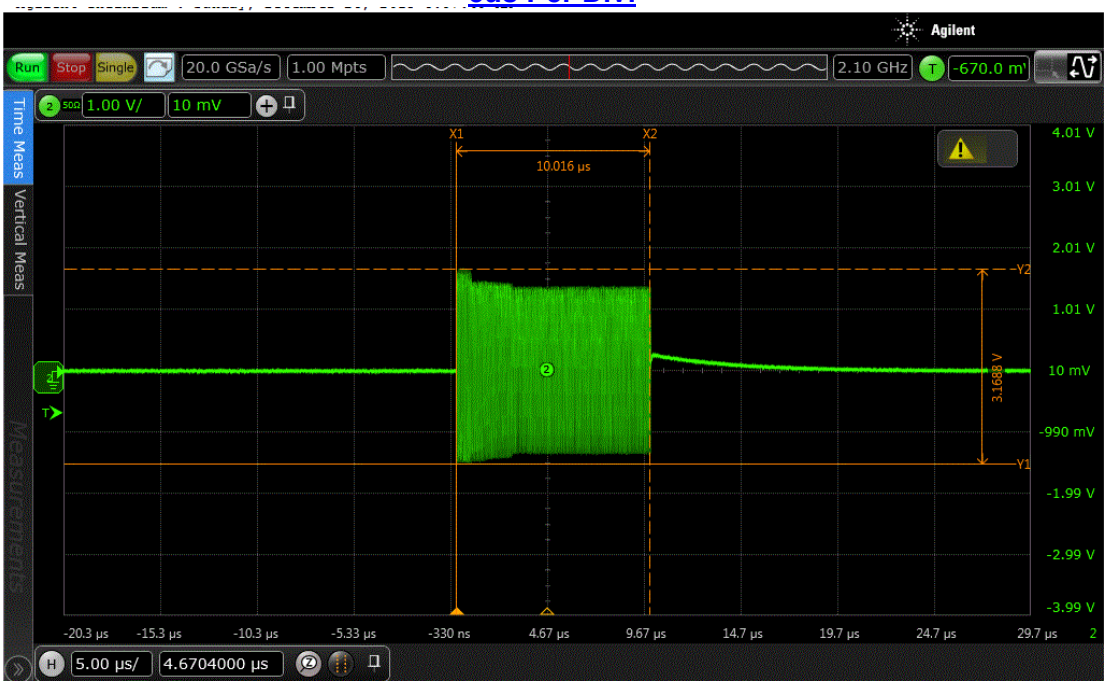
Full Pulse (500MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
500ns Per Div.



Full Pulse (500MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5us Per Div.



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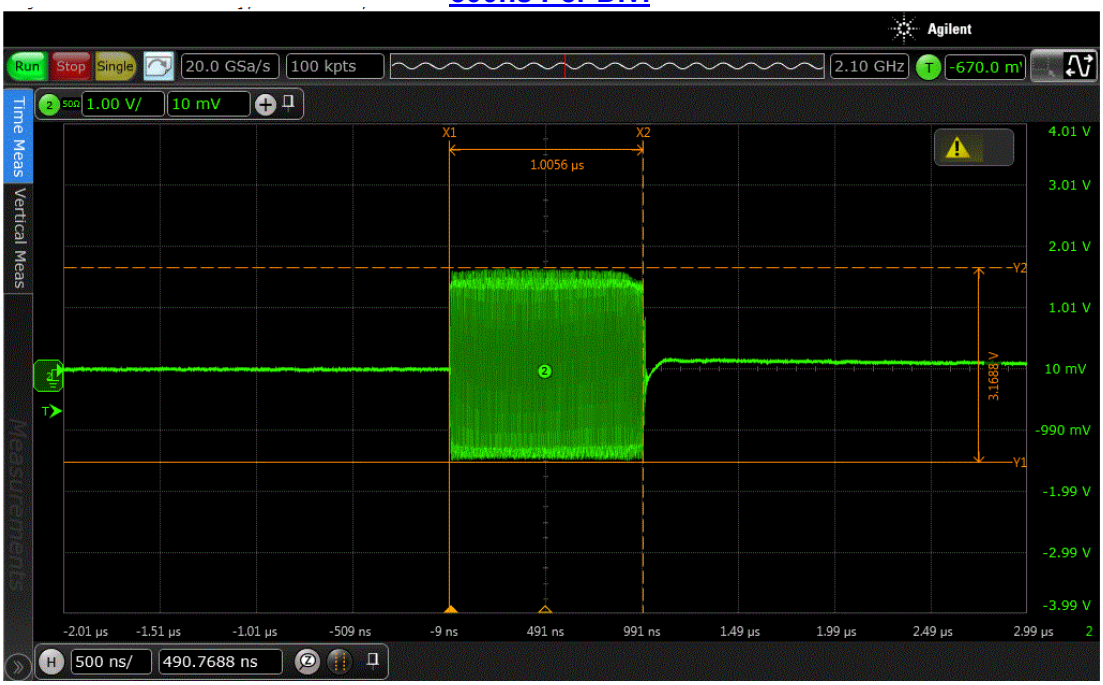
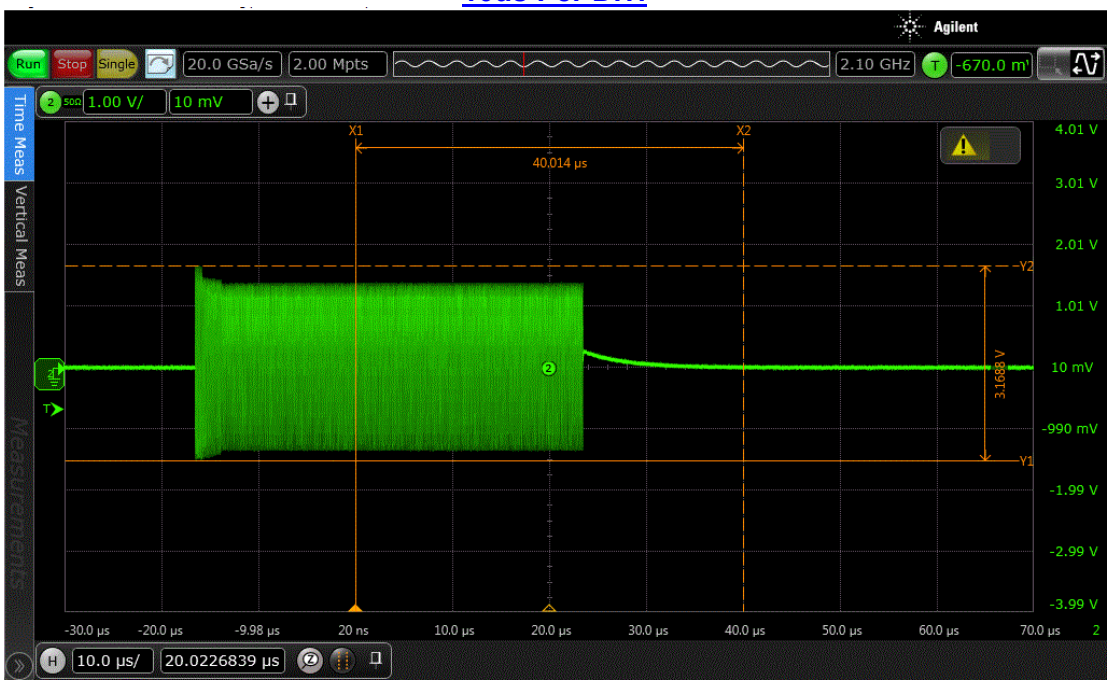
Full Pulse (500MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
500ns Per Div.



Full Pulse (500MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10us Per Div.



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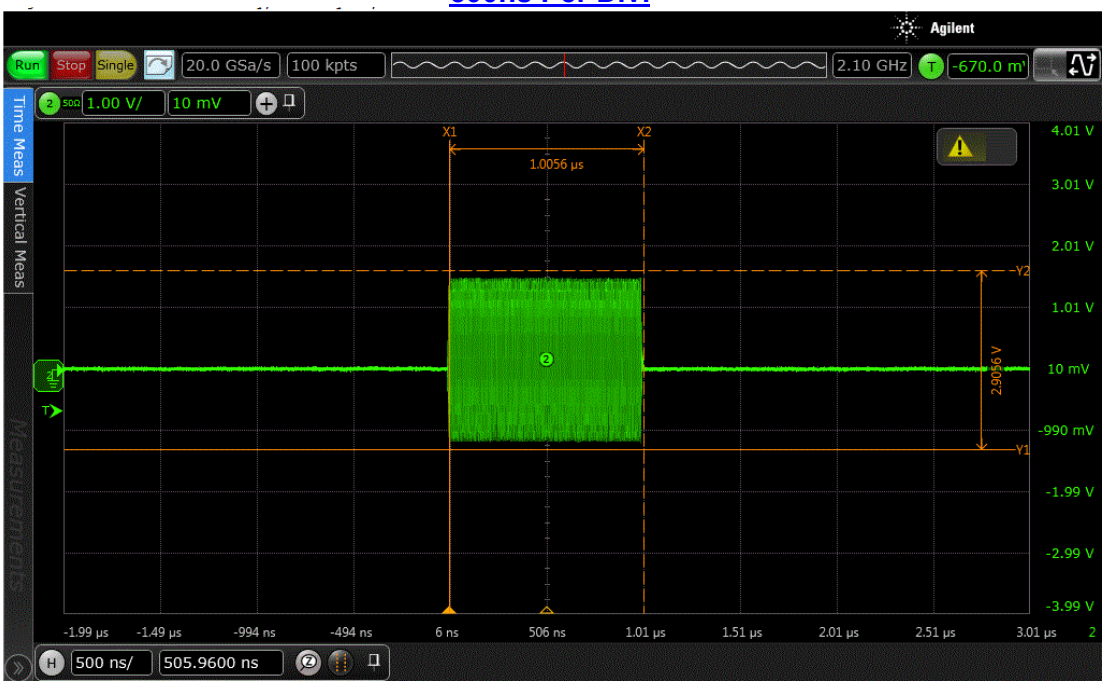
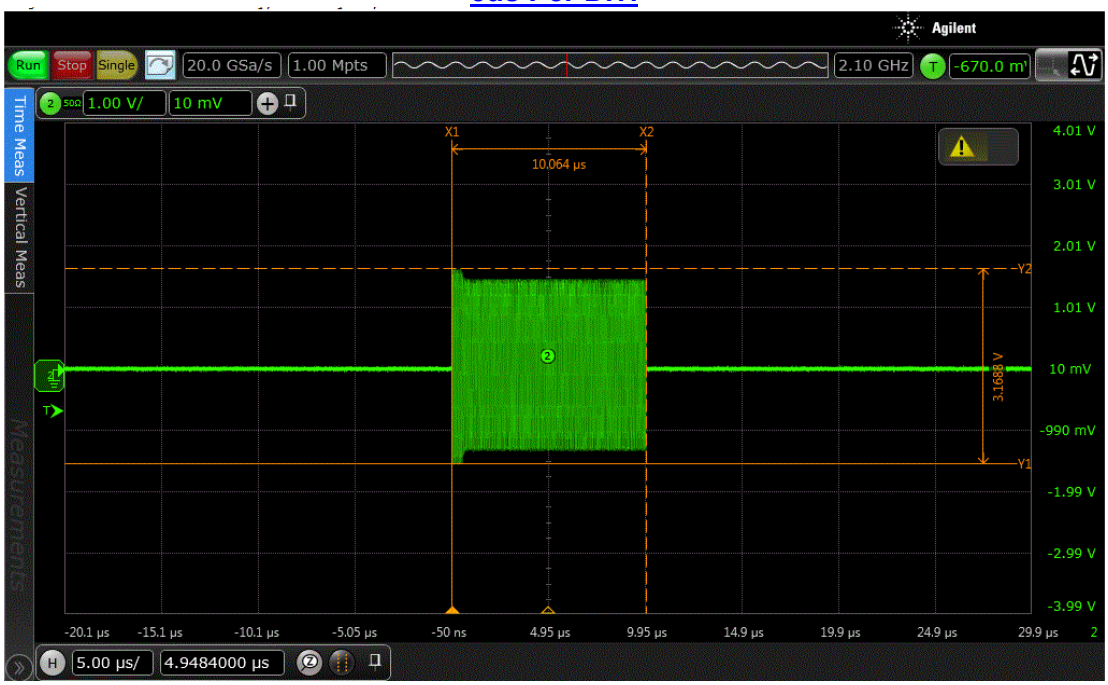
Full Pulse (1GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
500ns Per Div.



Full Pulse (1GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5us Per Div.



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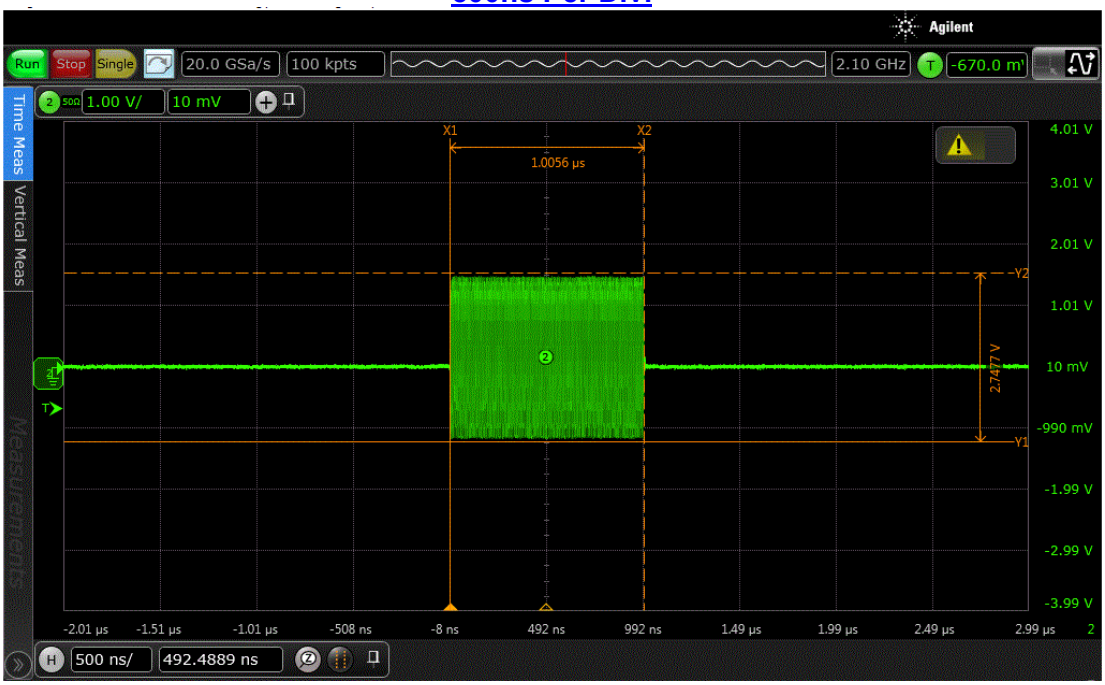
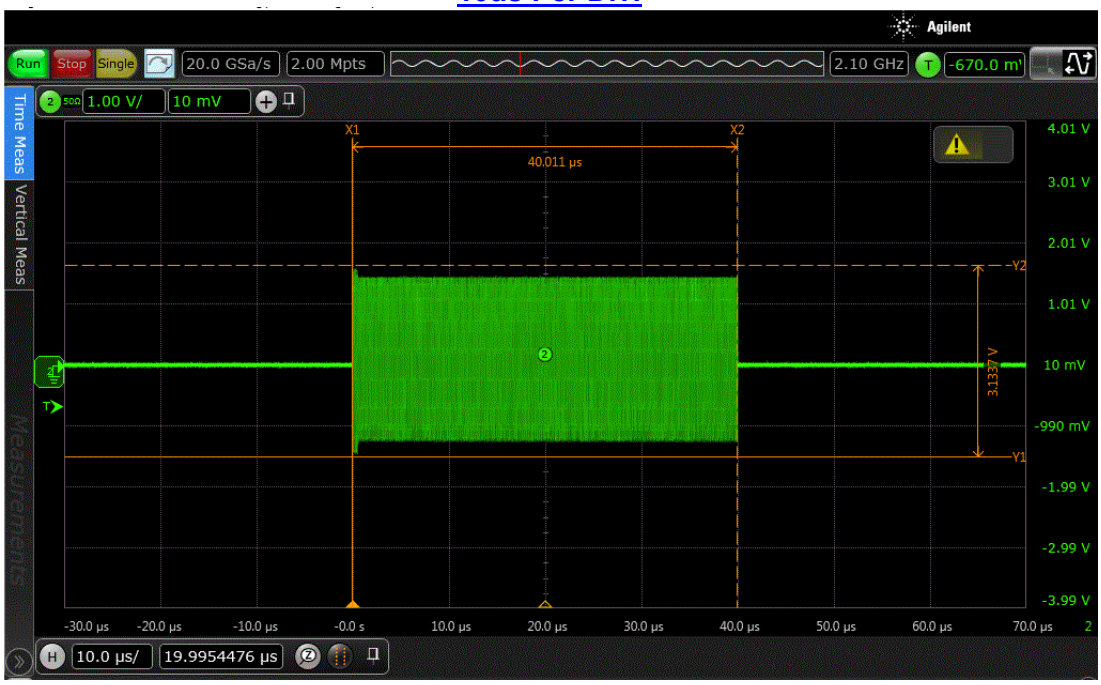
Full Pulse (1GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
500ns Per Div.



Full Pulse (1GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10us Per Div.



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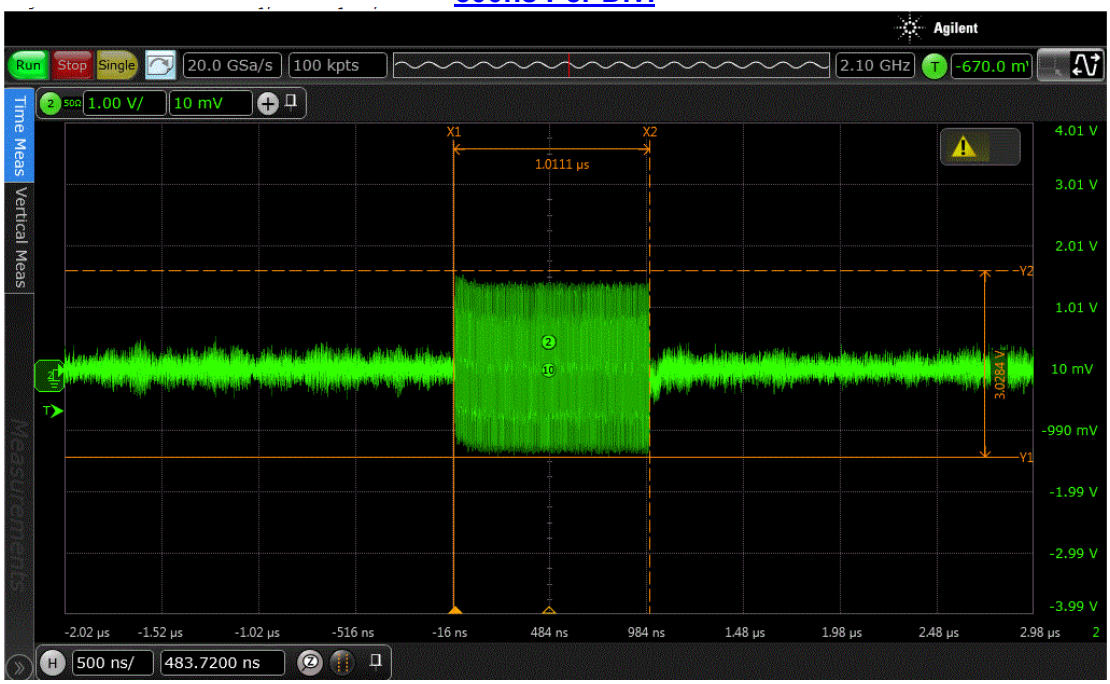
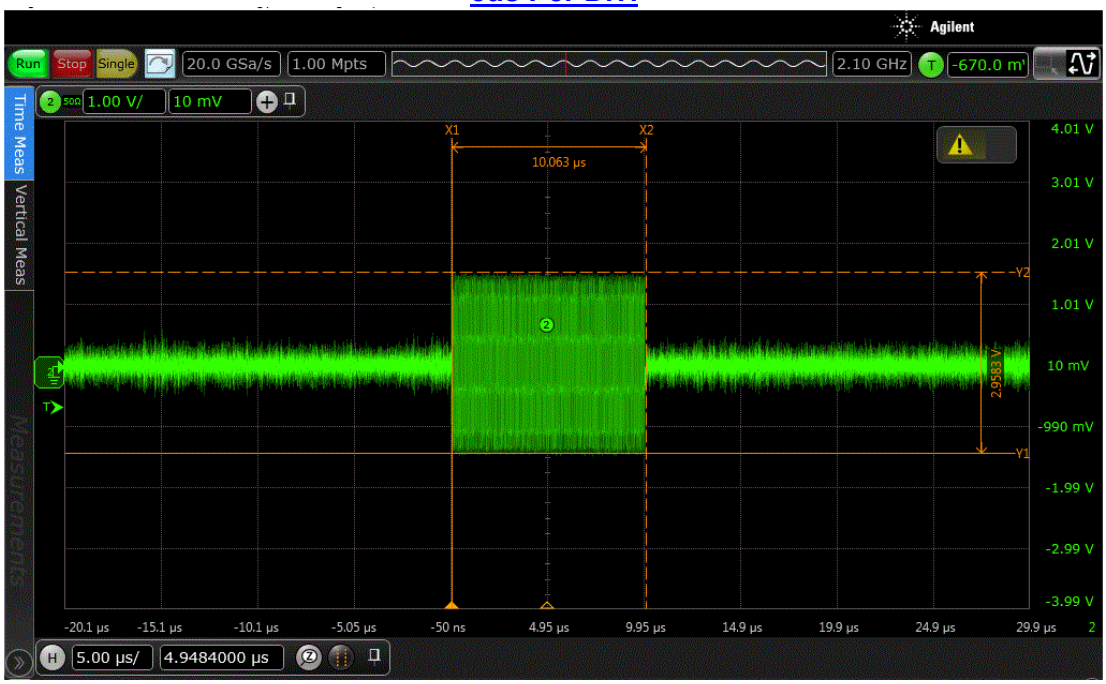
Full Pulse (2GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
500ns Per Div.



Full Pulse (2GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5us Per Div.



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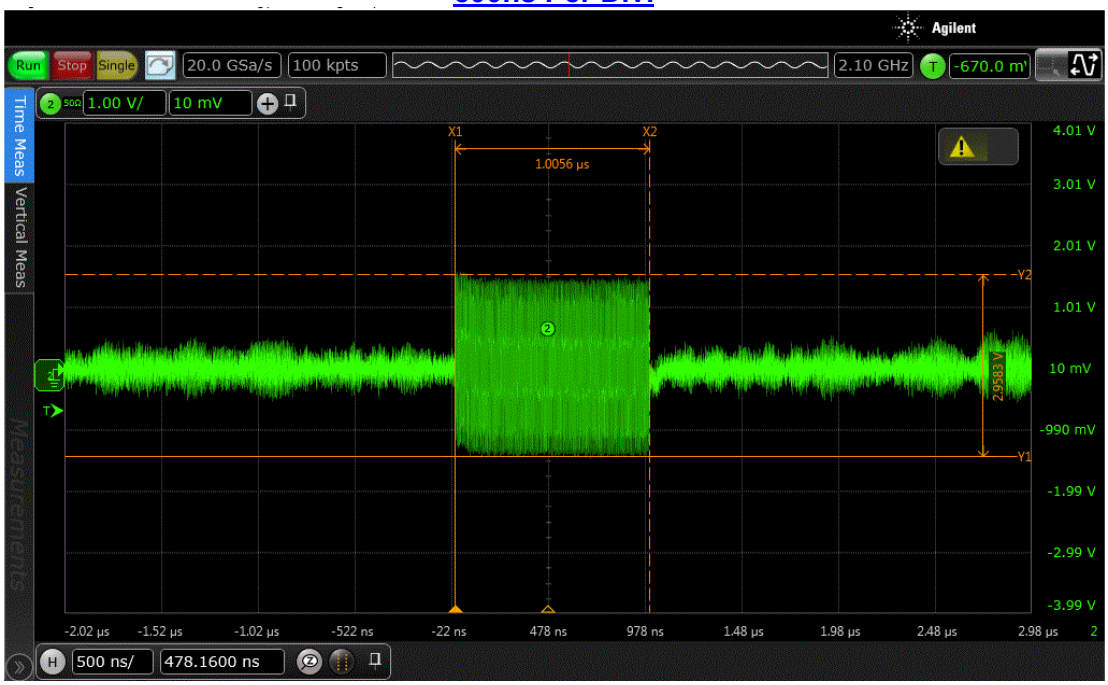
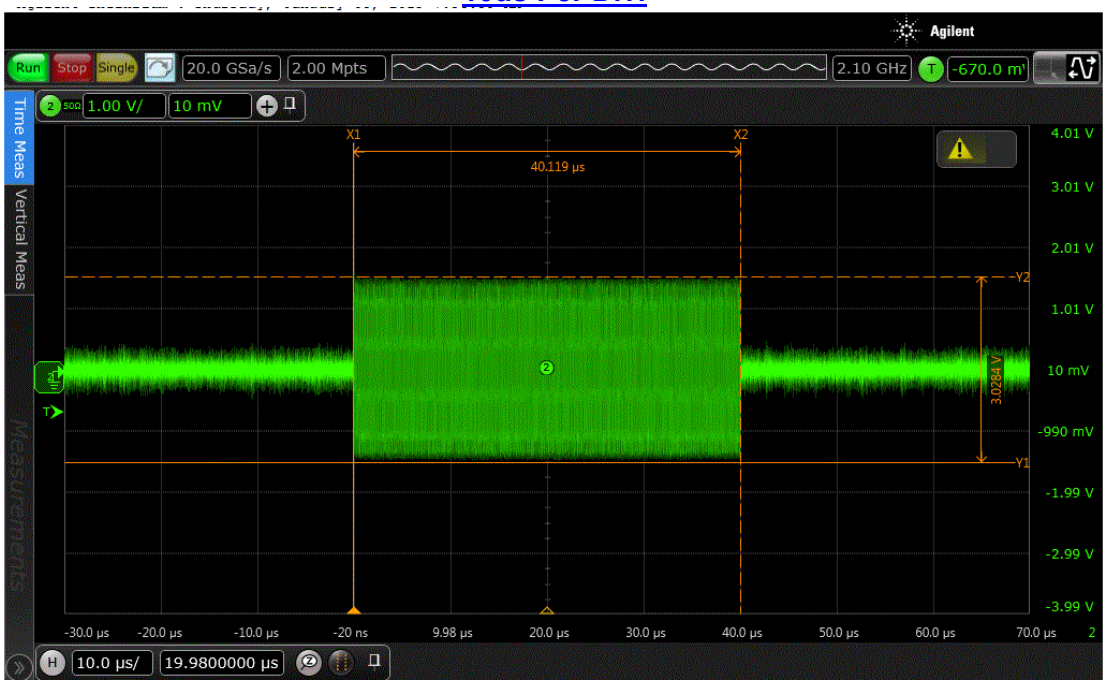
Full Pulse (2GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
500ns Per Div.



Full Pulse (2GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10us Per Div.



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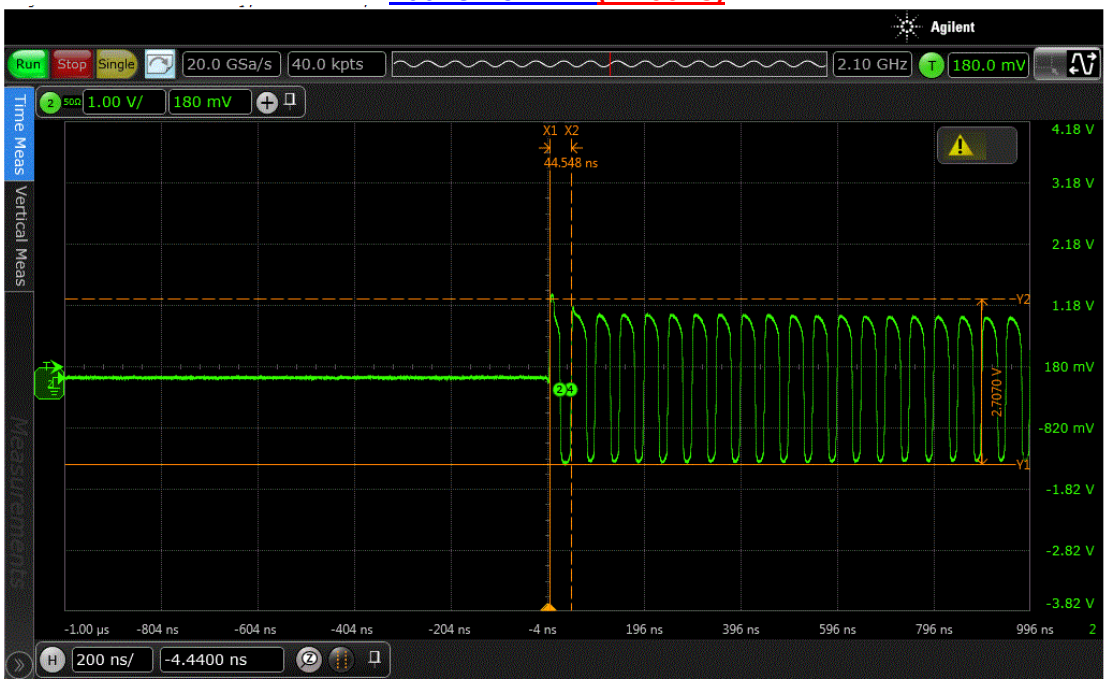
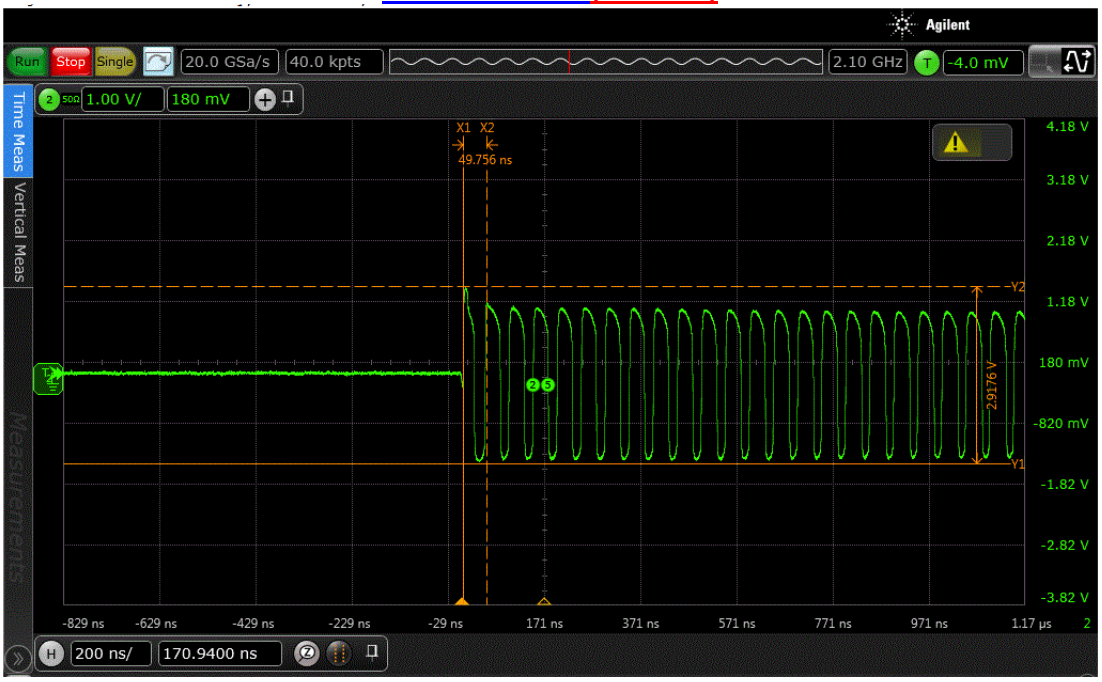
Rise Time (20MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
200ns Per Div. (44.55ns)



Rise Time (20MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
200ns Per Div. (49.75ns)



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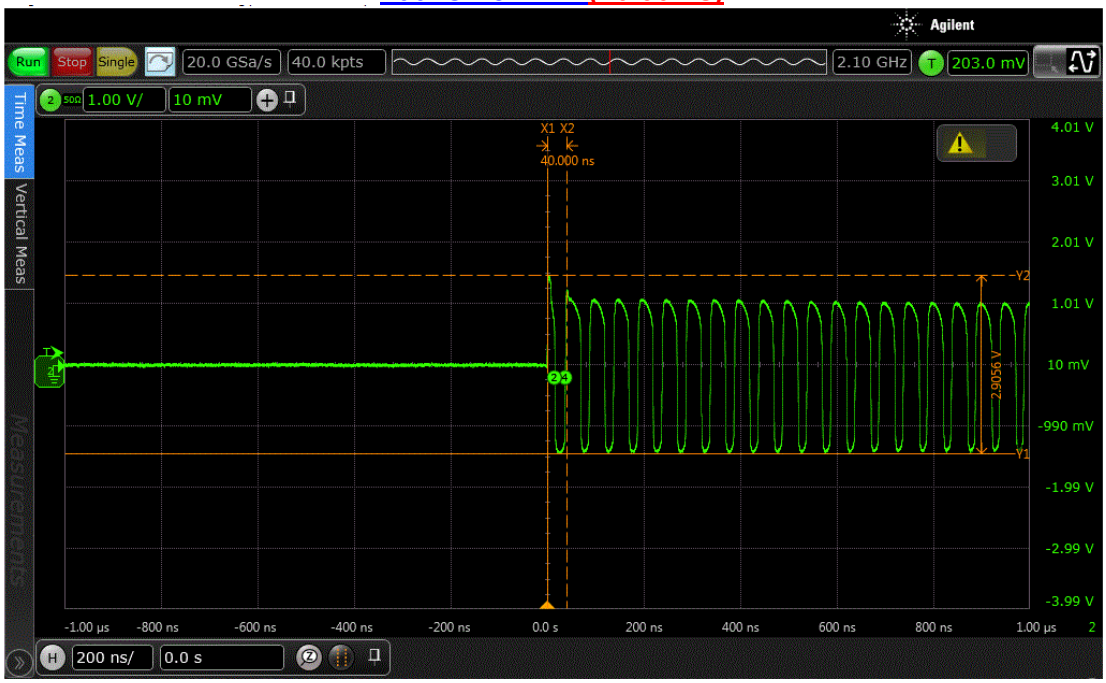
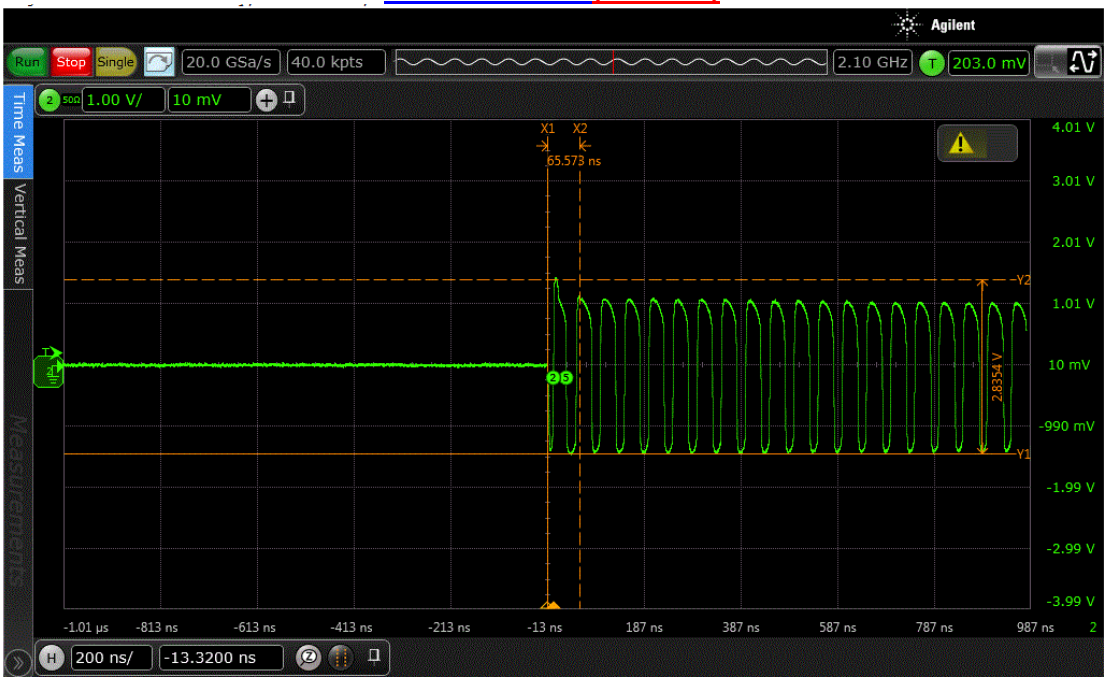
Rise Time (20MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
200ns Per Div. (40.00 ns)



Rise Time (20MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
200ns Per Div. (65.57ns)



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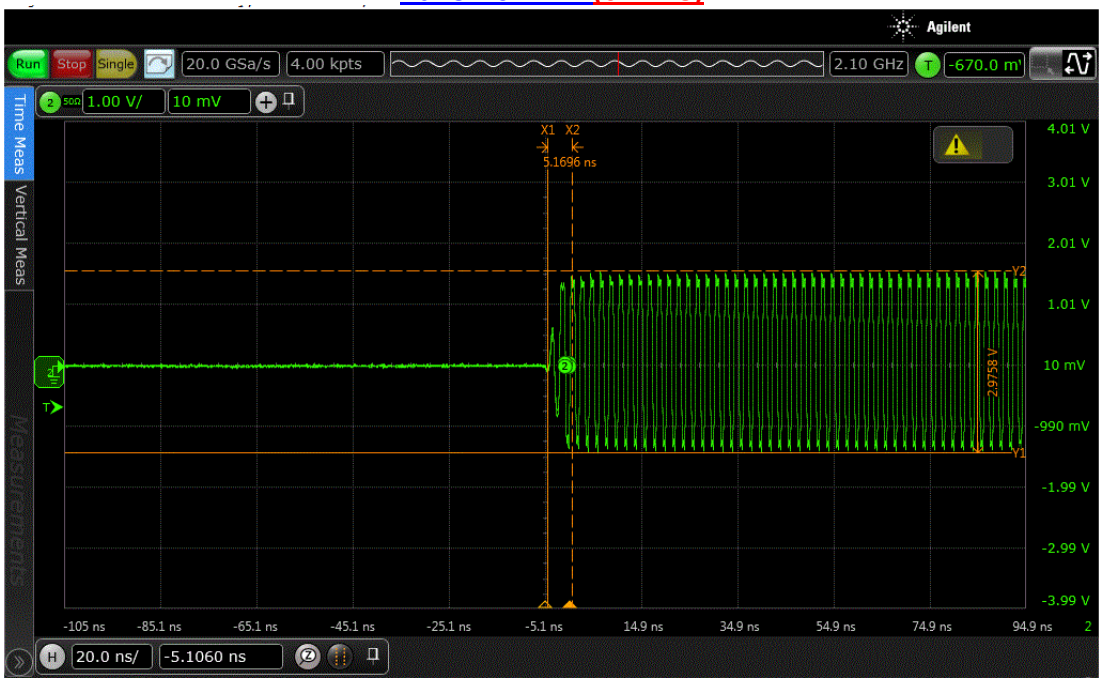
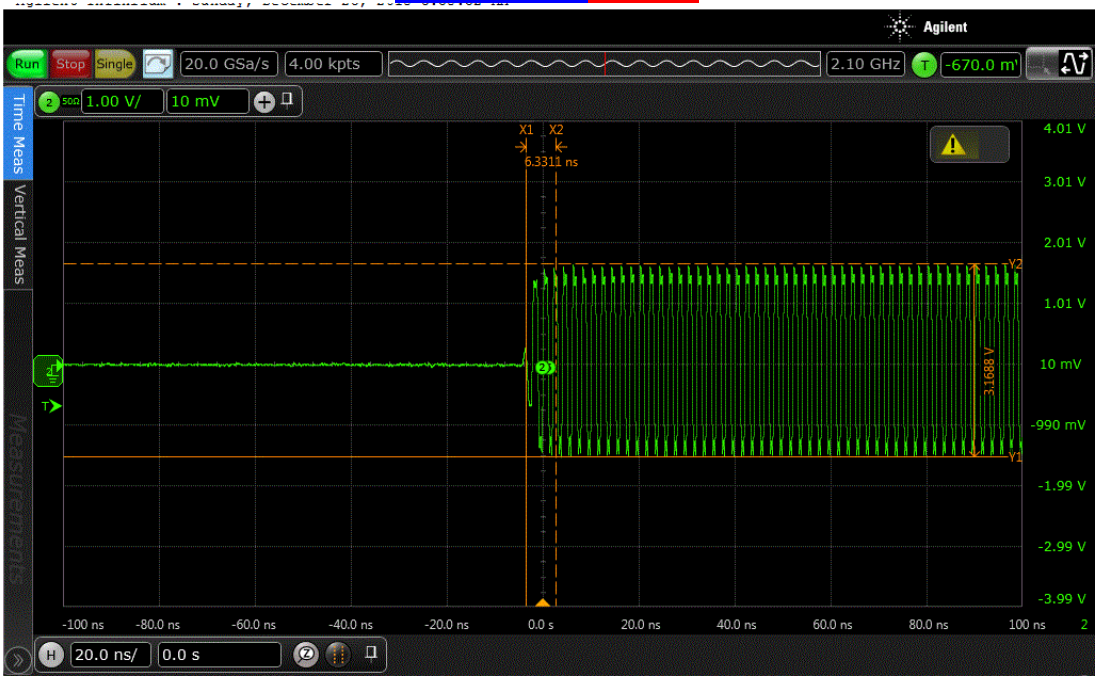
Rise Time (500MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
20ns Per Div. (5.17ns)



Rise Time (500MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
20ns Per Div. (6.33ns)



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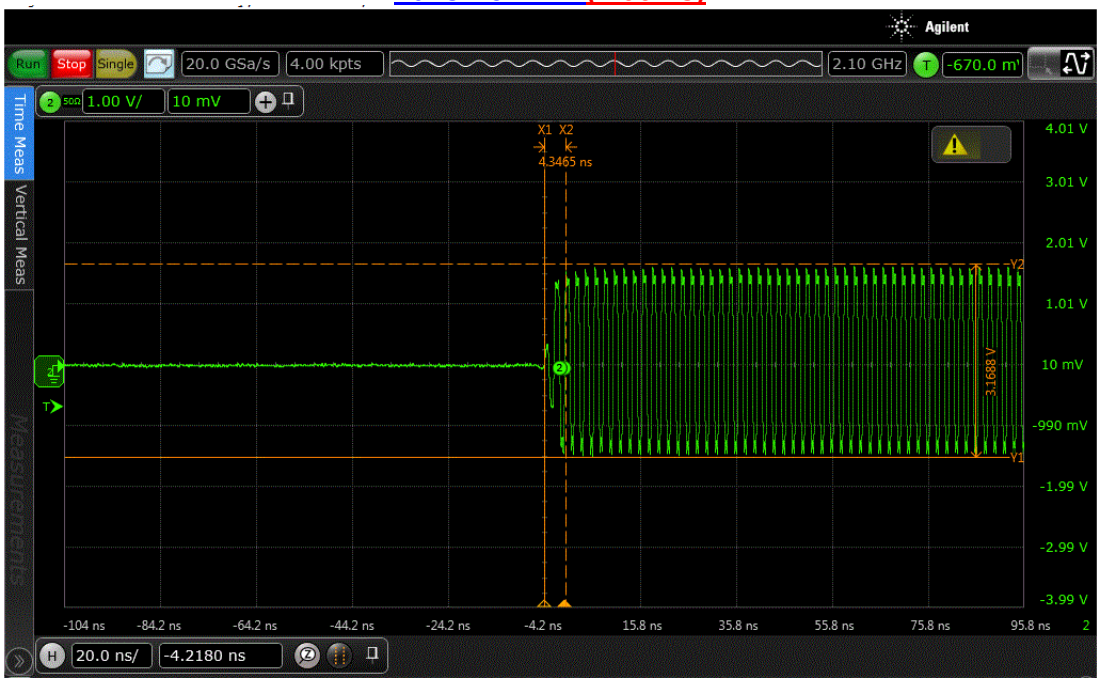
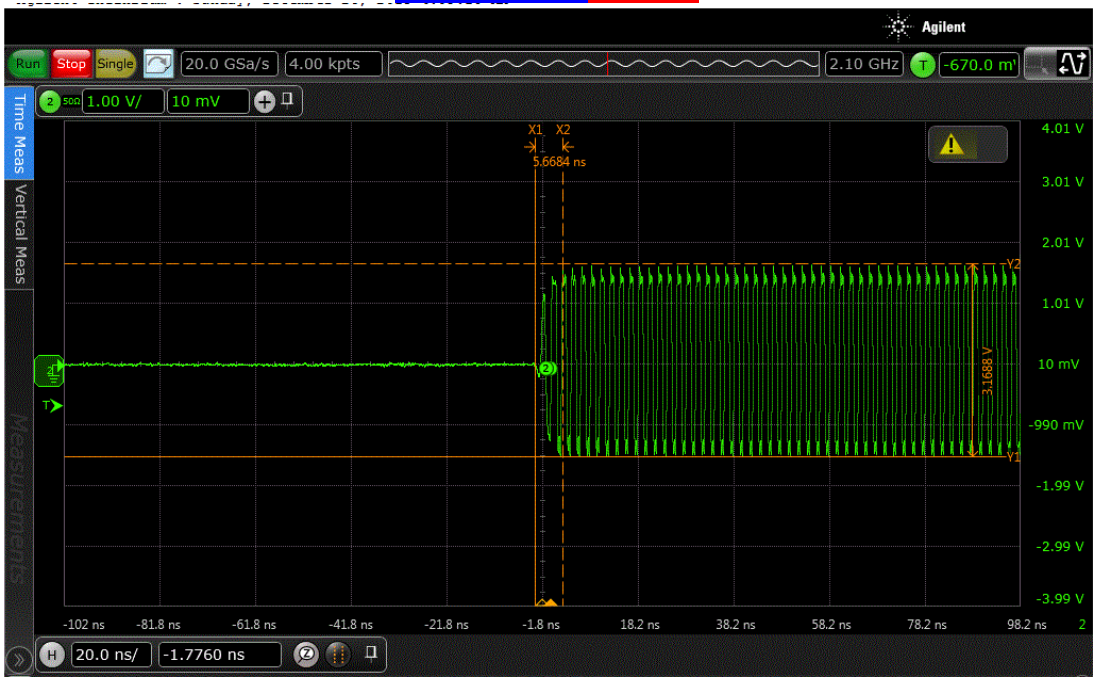
Rise Time (500MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
20ns Per Div. (4.35 ns)



Rise Time (500MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
20ns Per Div. (5.67ns)



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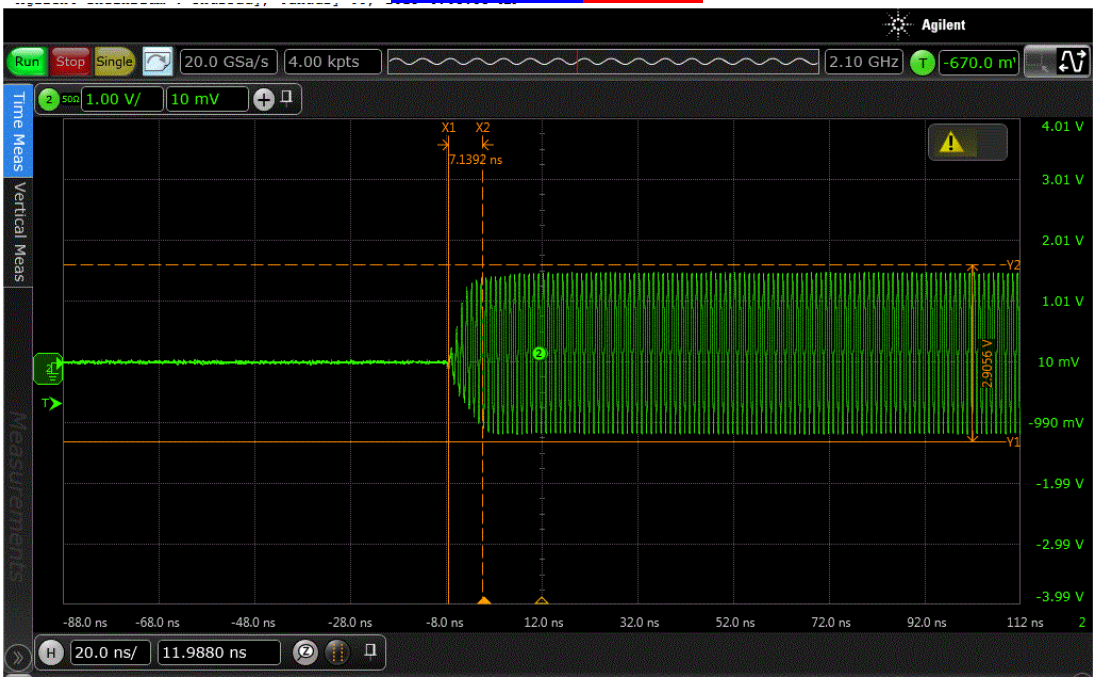
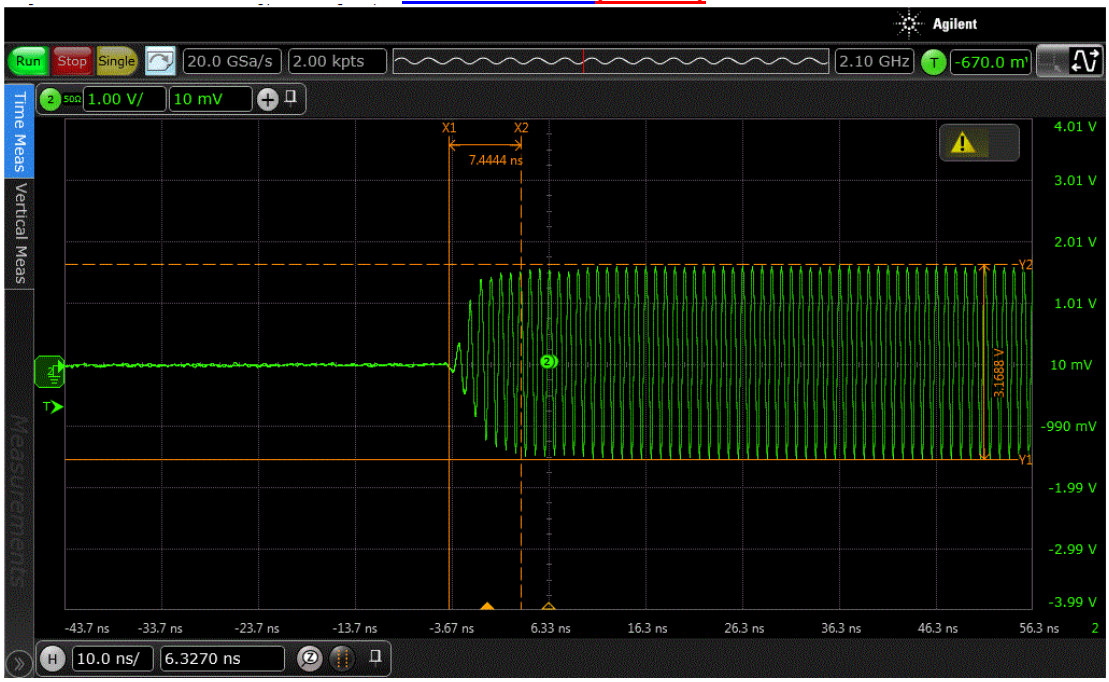
Rise Time (1GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
20ns Per Div. (7.14 ns)



Rise Time (1GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
10ns Per Div. (7.44ns)



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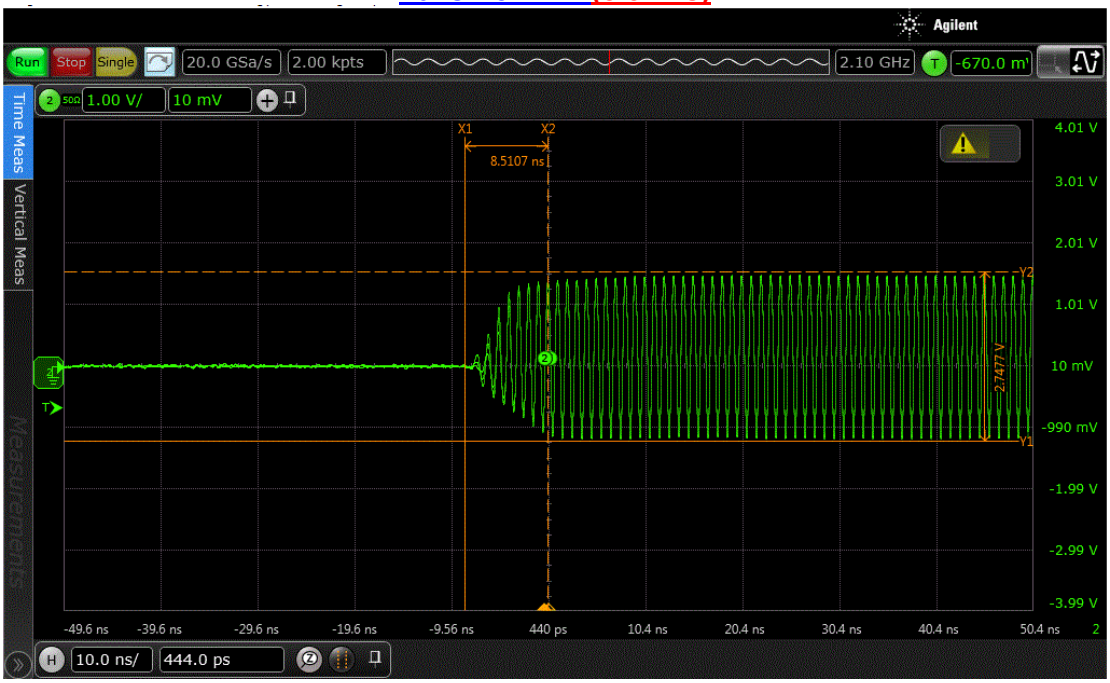
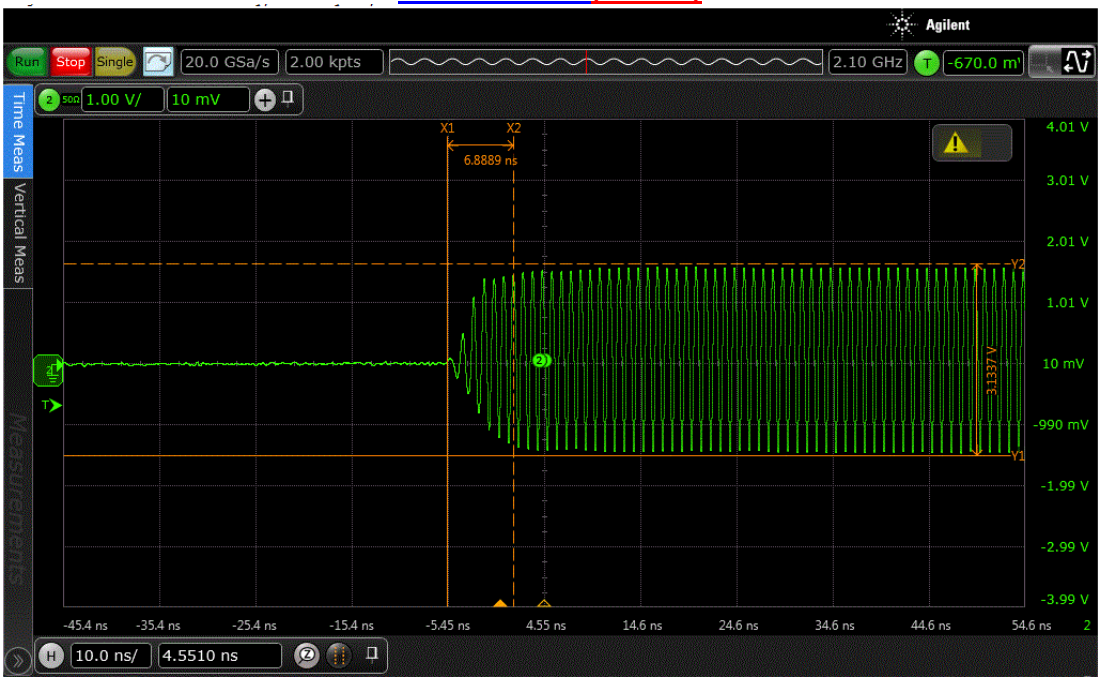
Rise Time (1GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
10ns Per Div. (8.51 ns)



Rise Time (1GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10ns Per Div. (6.89ns)



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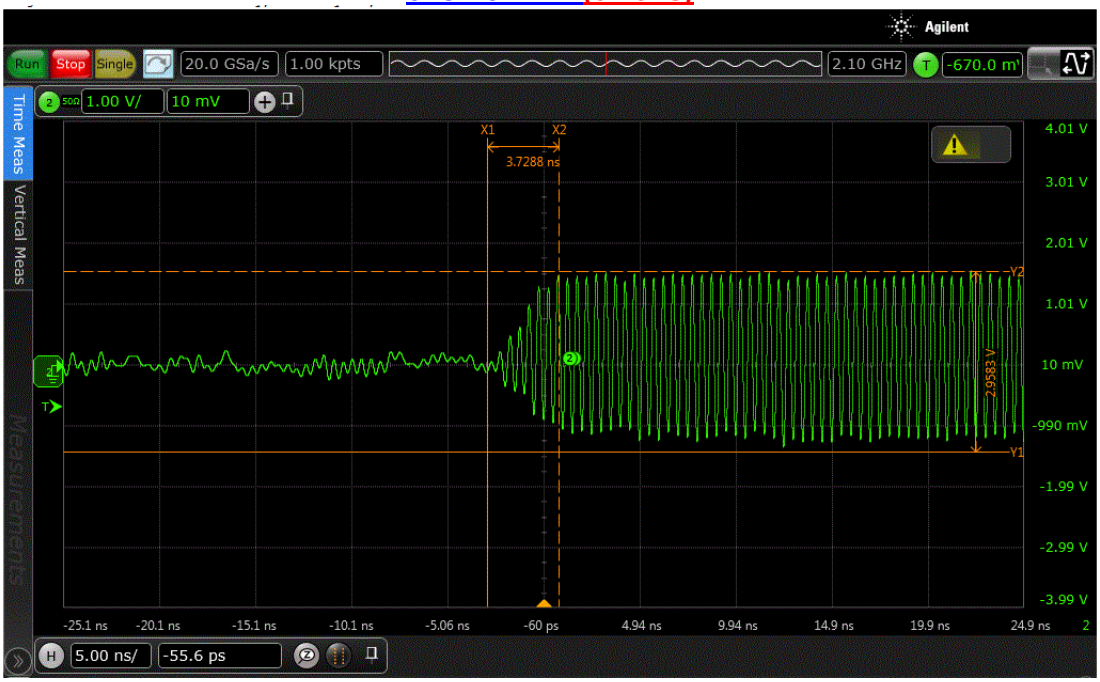
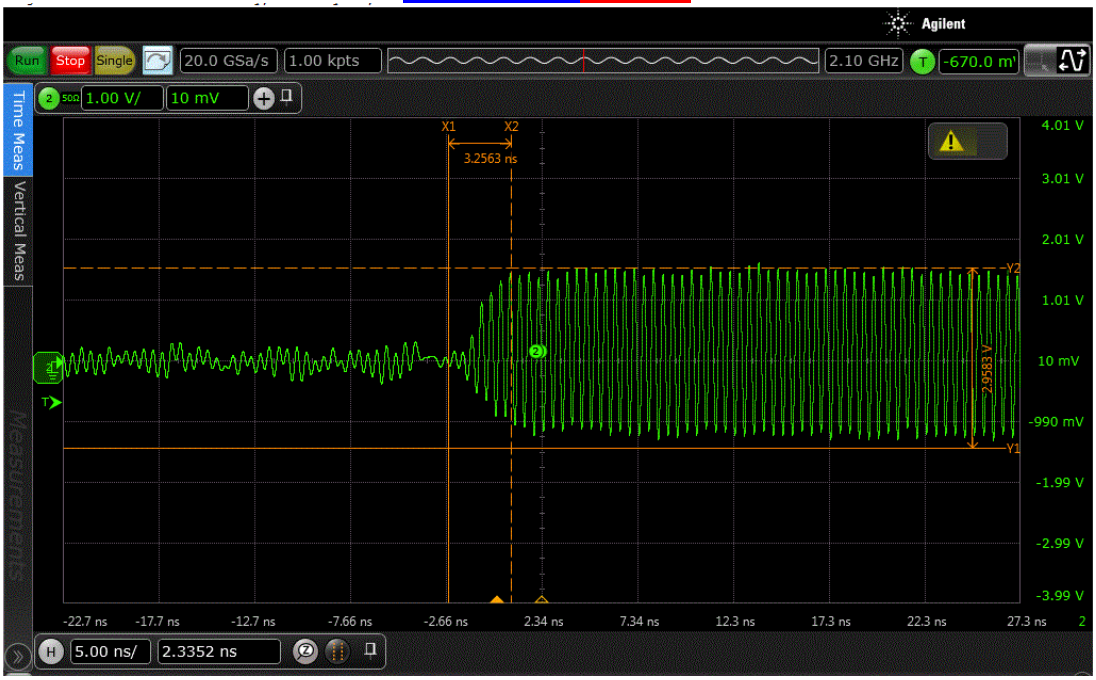
Rise Time (2GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
5ns Per Div. (3.73ns)



Rise Time (2GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5ns Per Div. (3.26ns)



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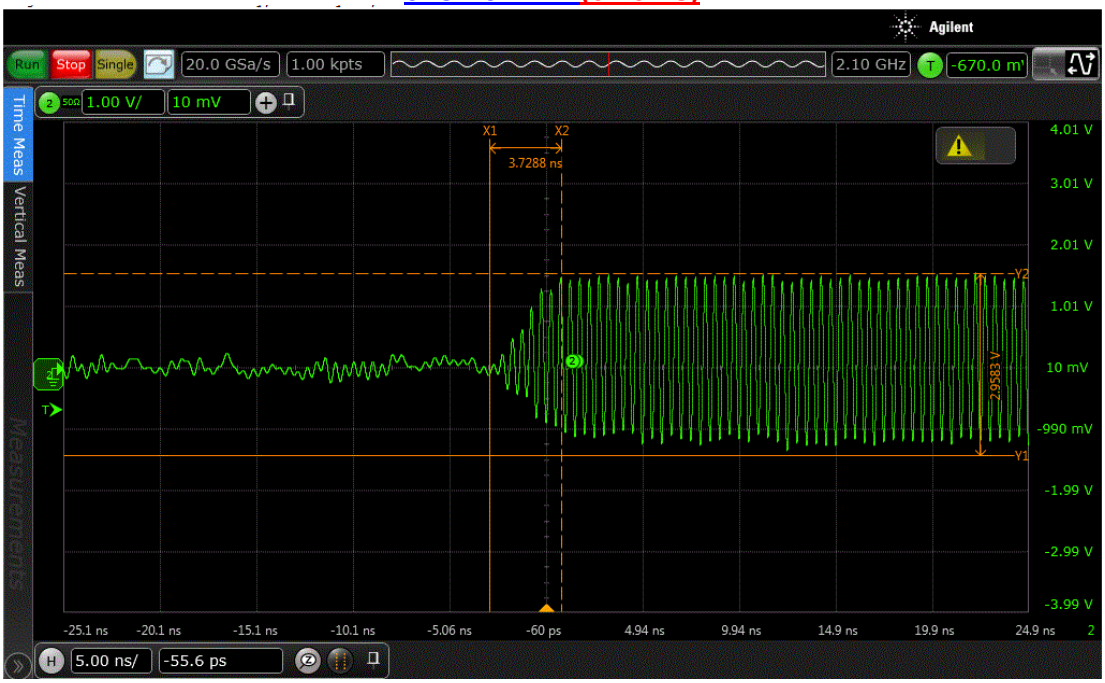
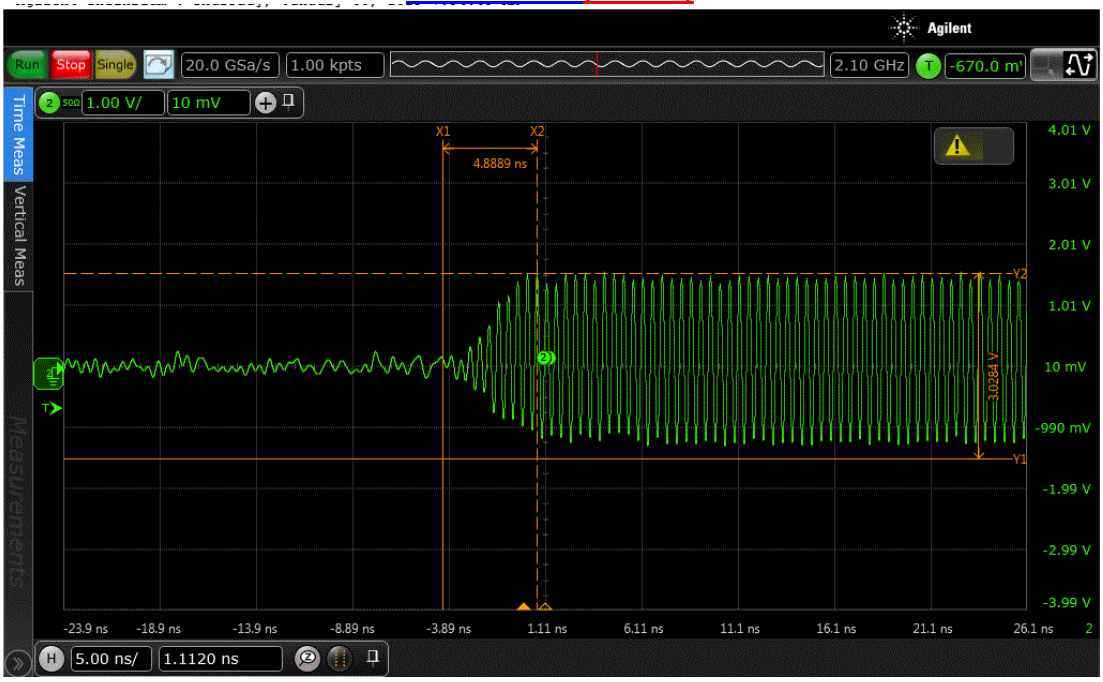
Rise Time (2GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
5ns Per Div. (3.73 ns)



Rise Time (2GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
5ns Per Div. (4.89ns)



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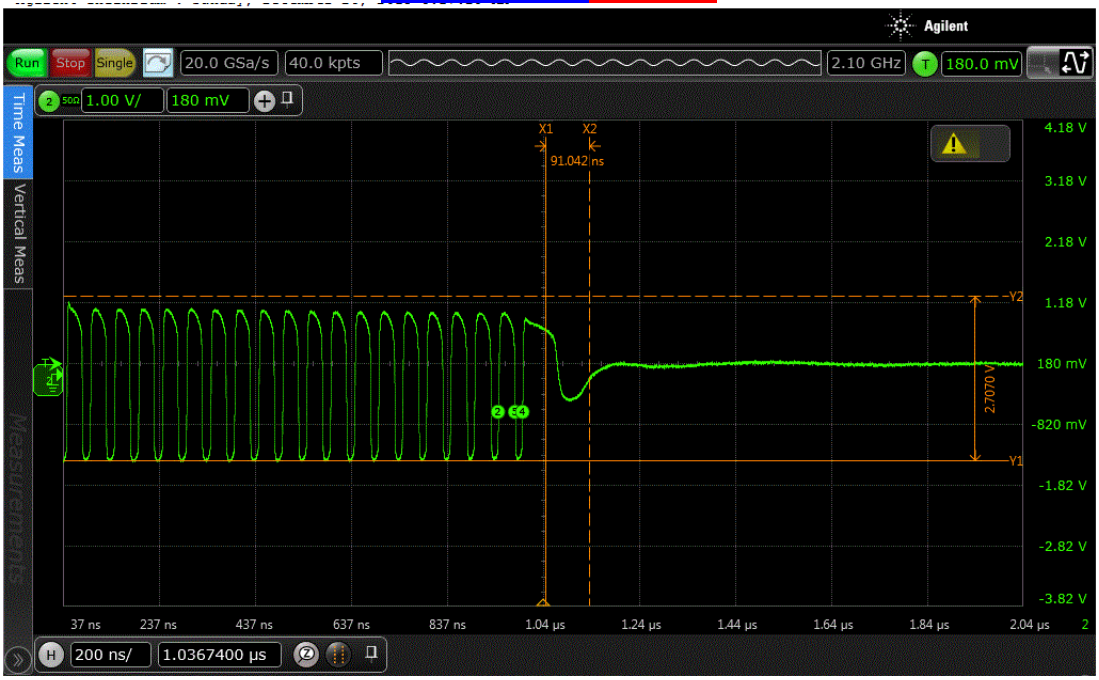
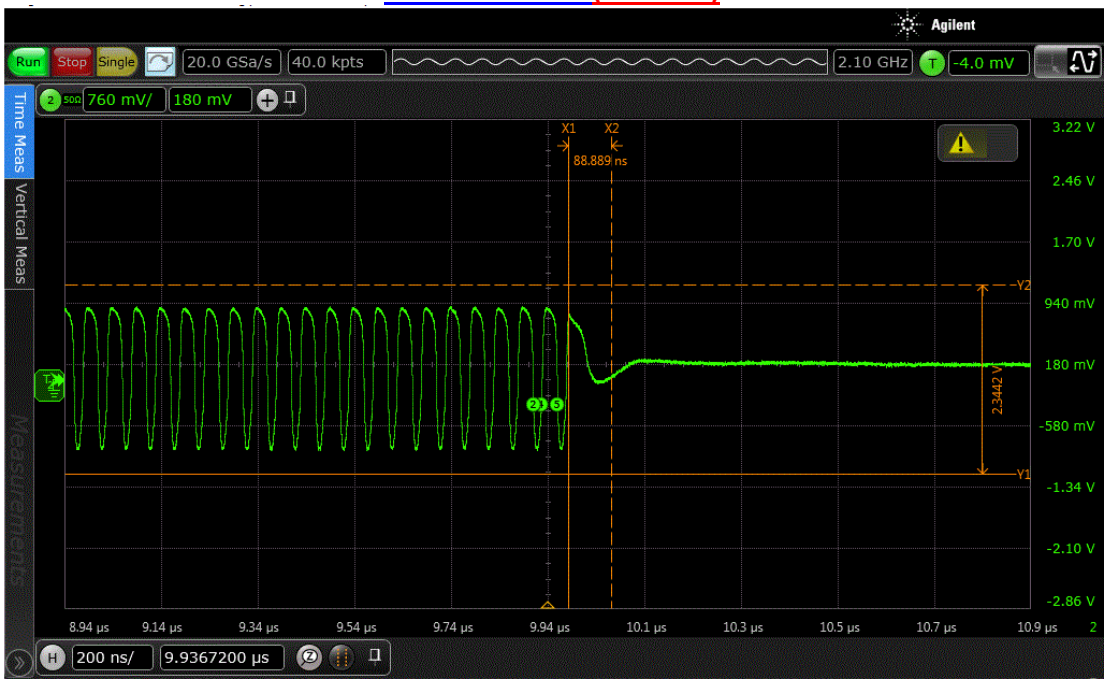
Recovery (20MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
200ns Per Div. (91.04ns)



Recovery (20MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
200ns Per Div. (88.88ns)



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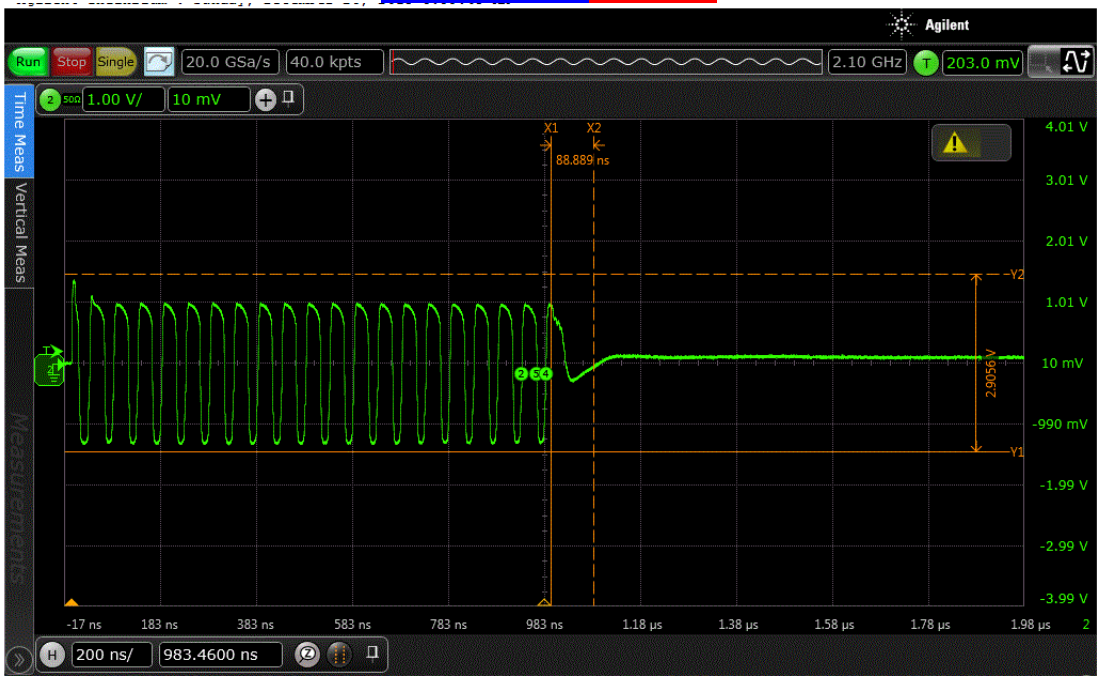
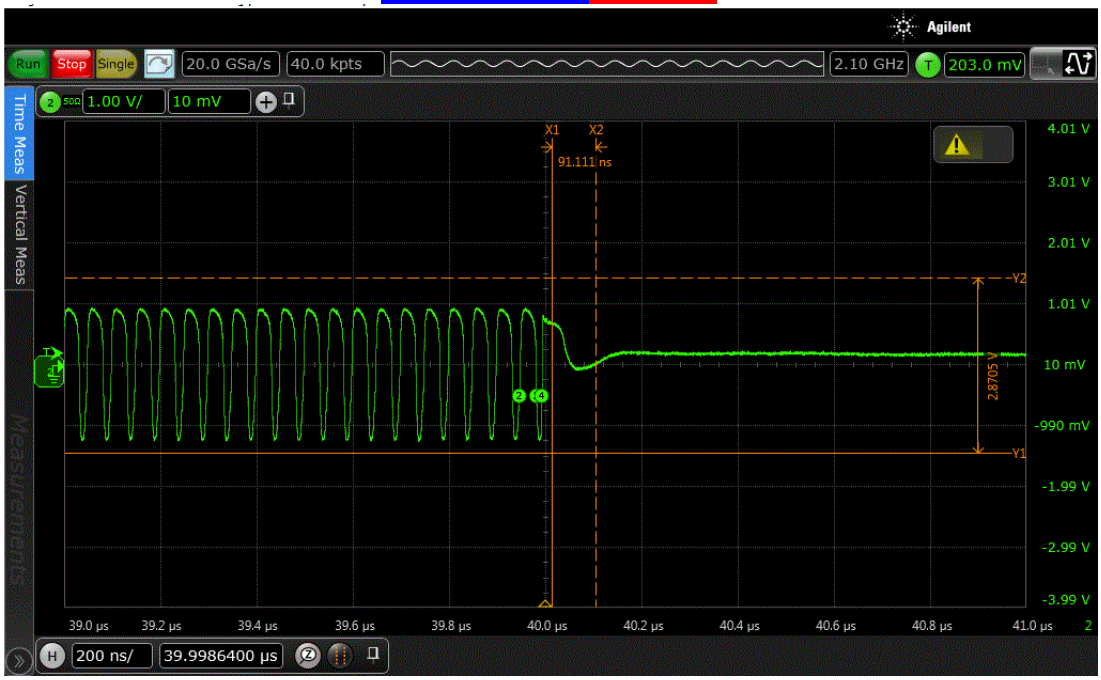
Recovery (20MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
200ns Per Div. (88.89ns)



Recovery (20MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
200ns Per Div. (91.11ns)



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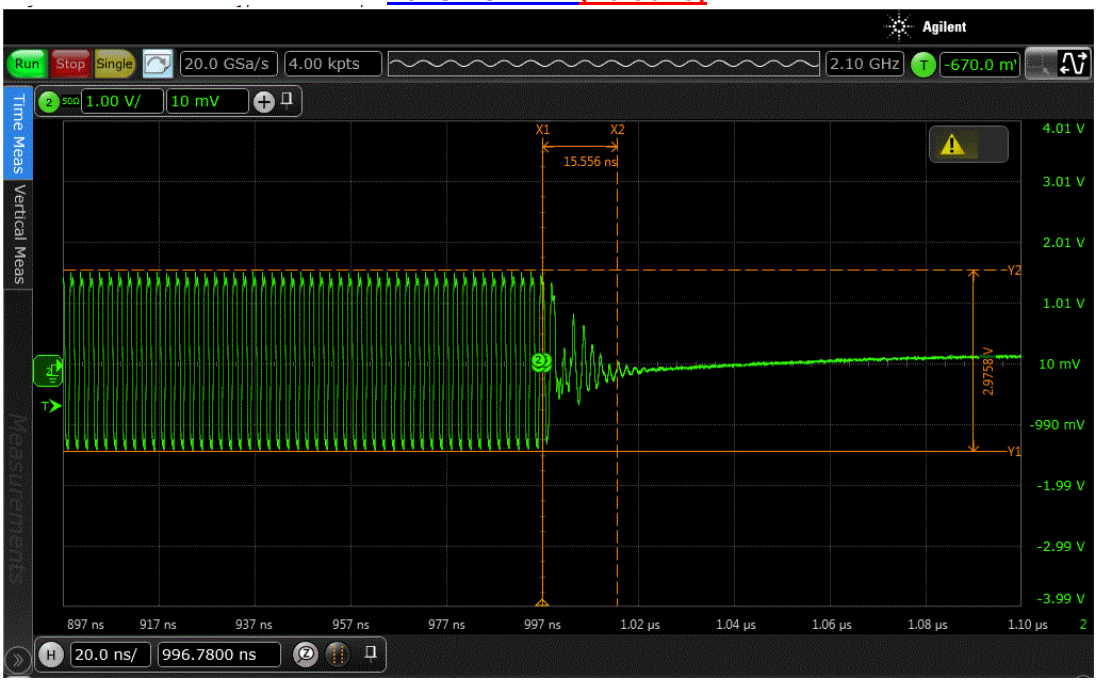
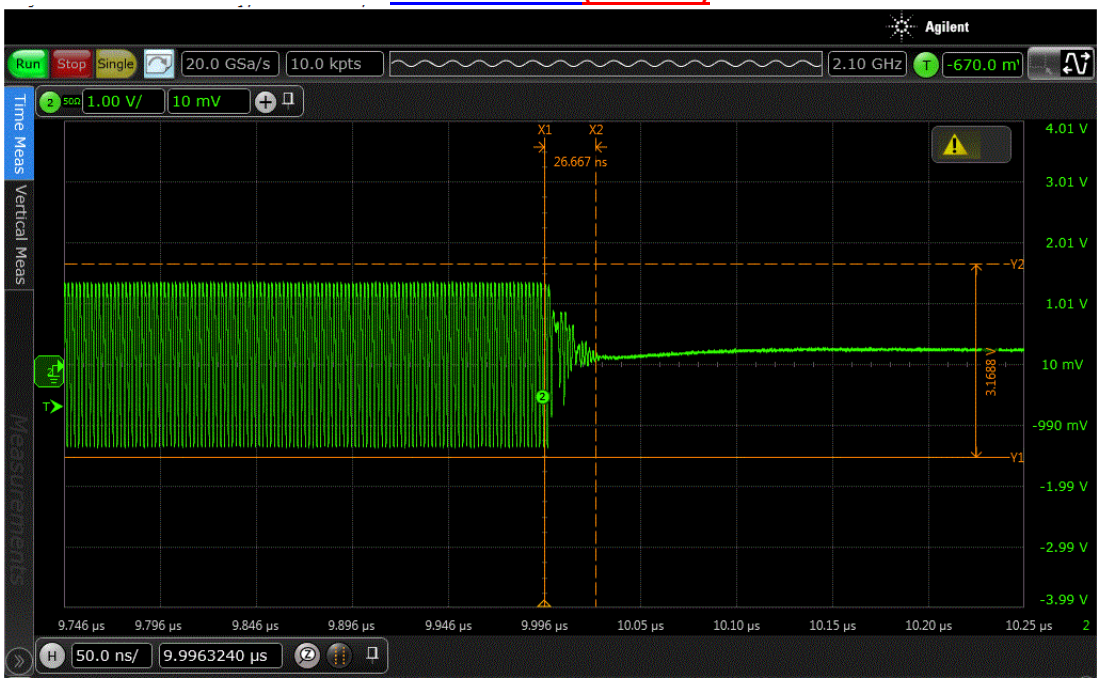
Recovery (500MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
20ns Per Div. (15.56ns)



Recovery (500MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
50ns Per Div. (26.66ns)



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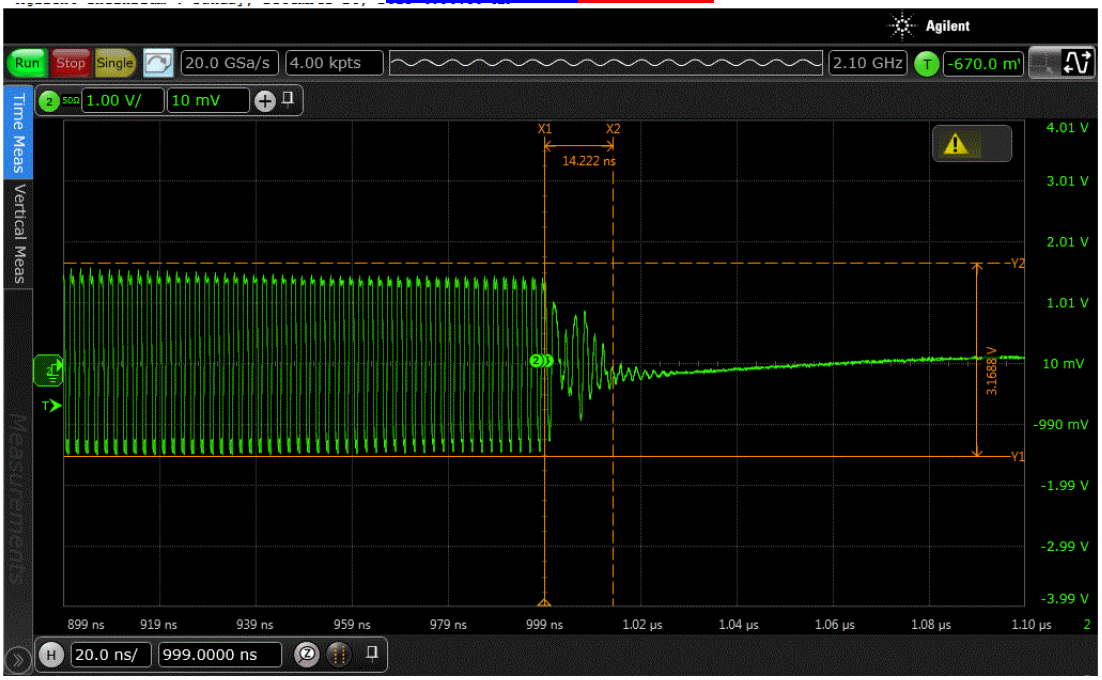
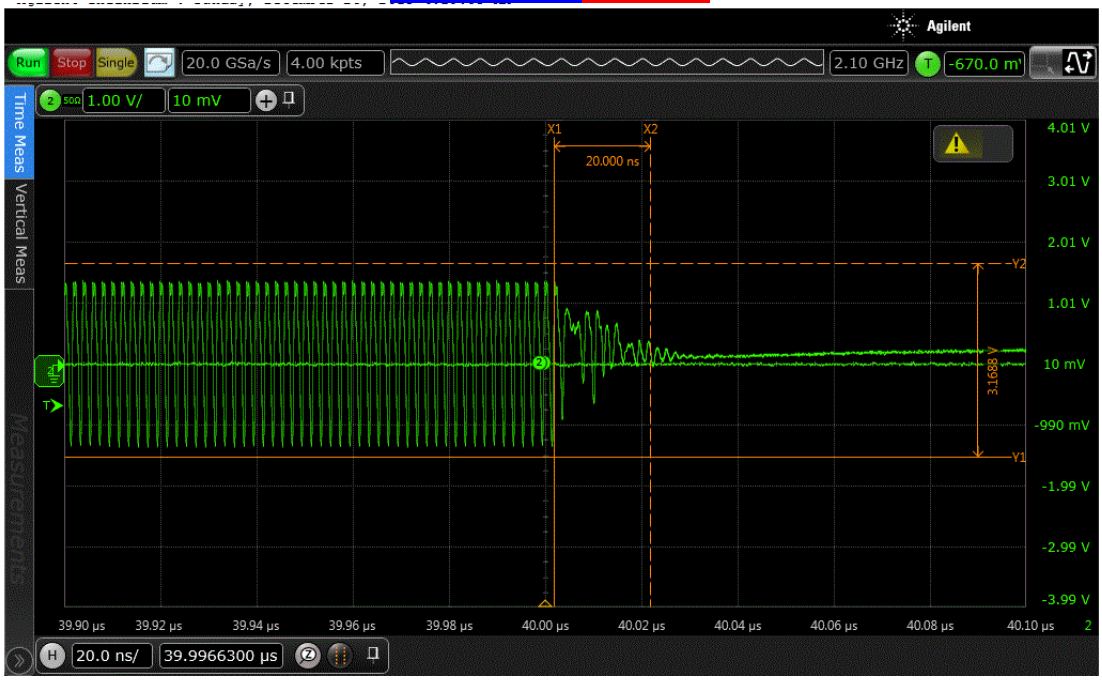
Recovery (500MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
20ns Per Div. (14.22 ns)



Recovery (500MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
20ns Per Div. (20.00ns)



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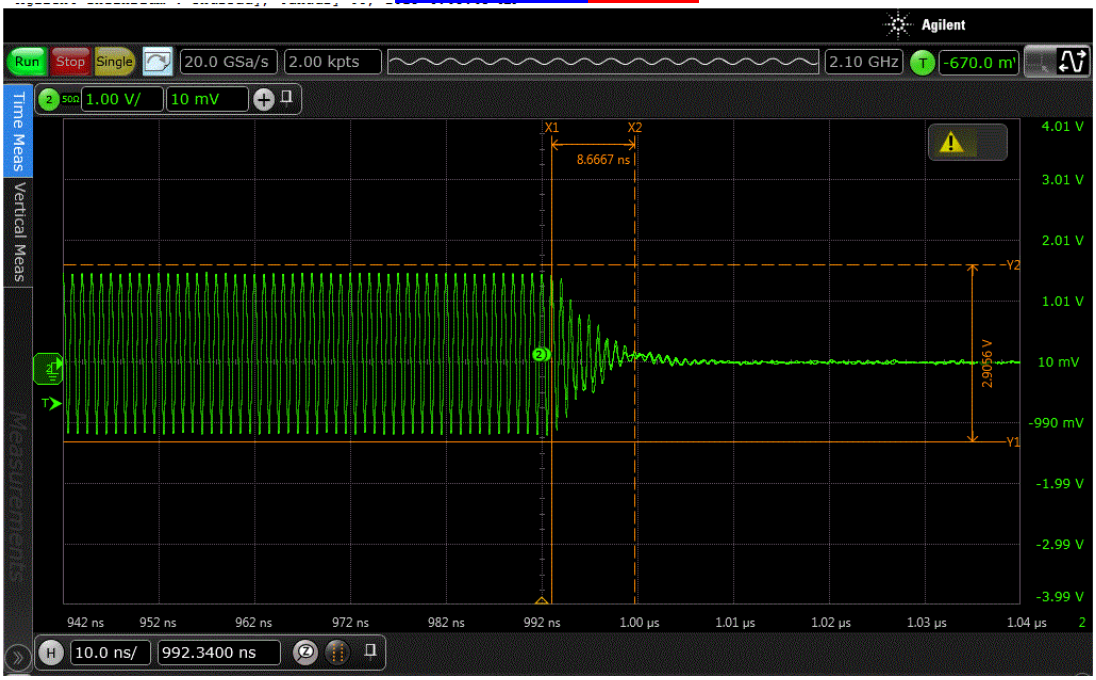
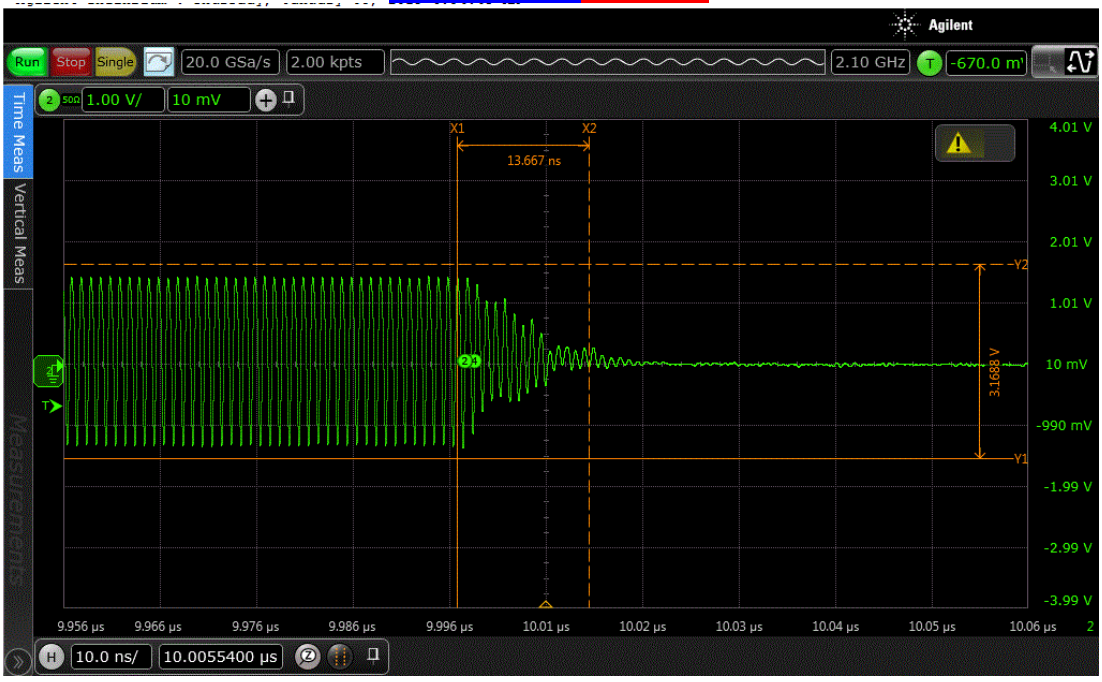
Recovery (1GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
10ns Per Div. (8.66ns)



Recovery (1GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
10ns Per Div. (13.68ns)



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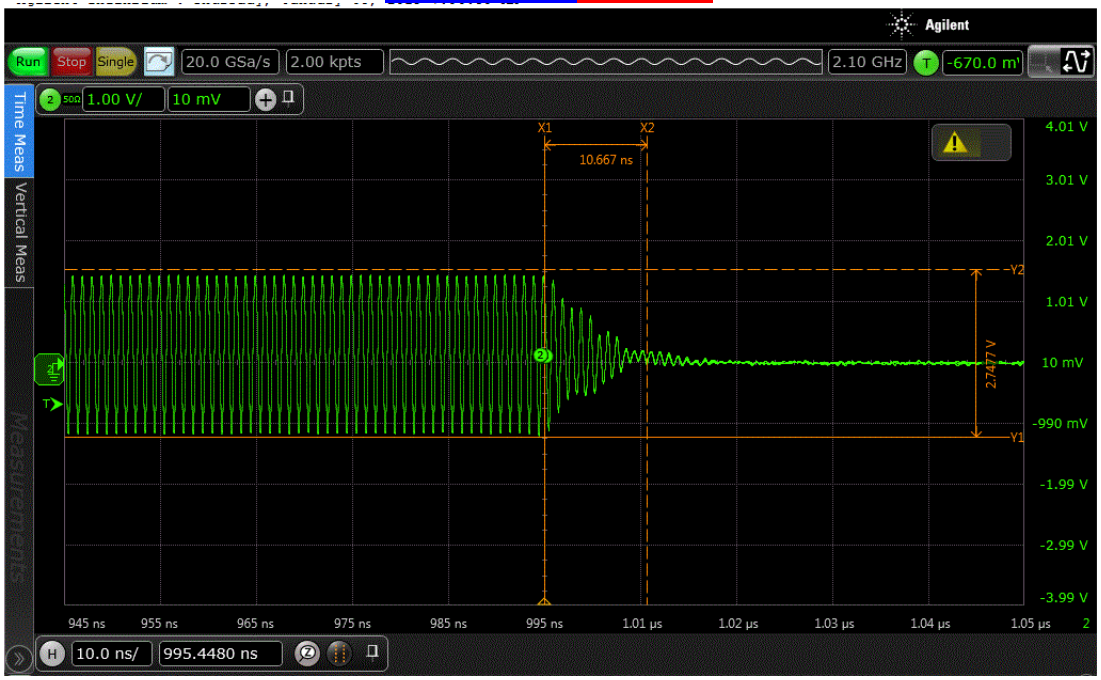
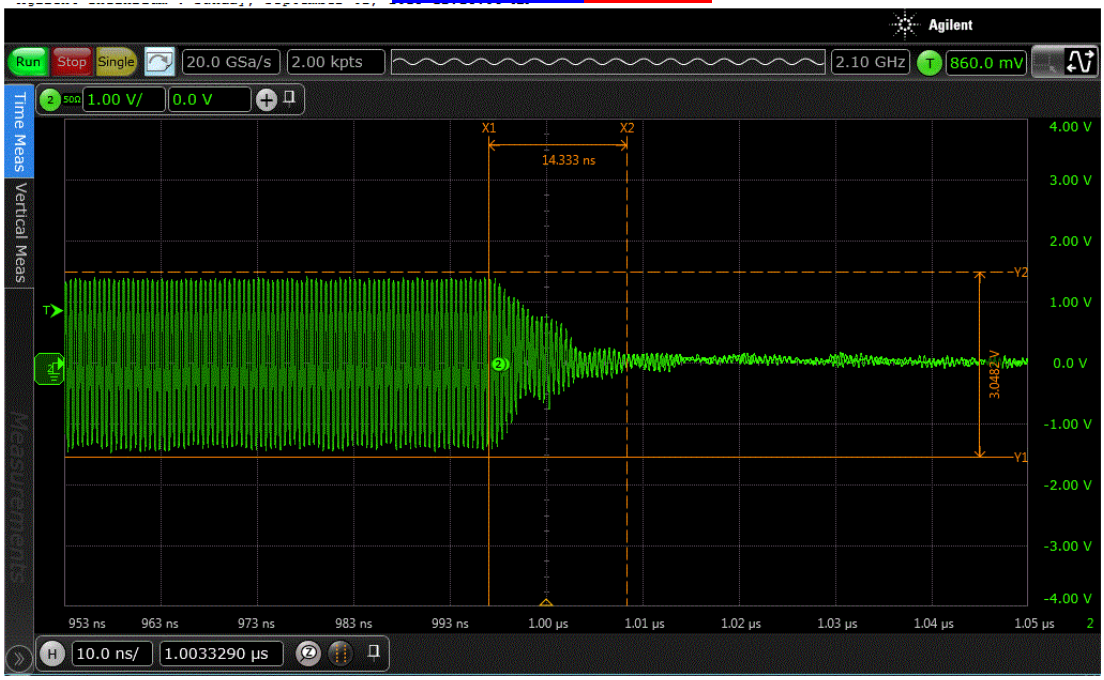
Recovery (1GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
10ns Per Div. (10.68 ns)



Recovery (1GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10ns Per Div. (14.33ns)



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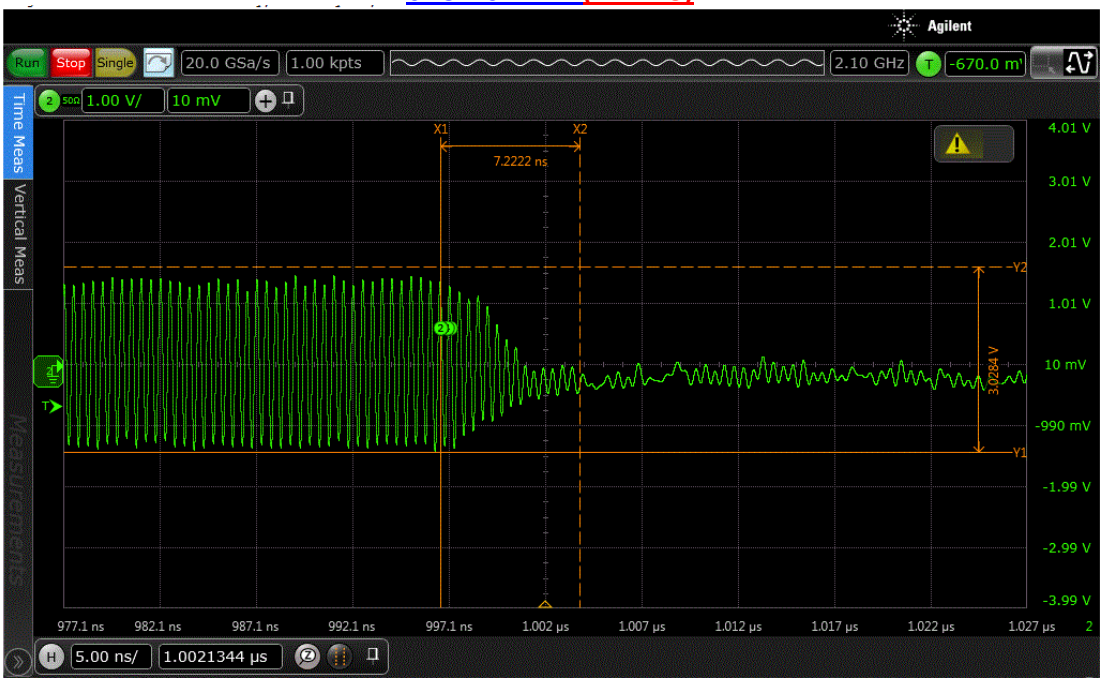
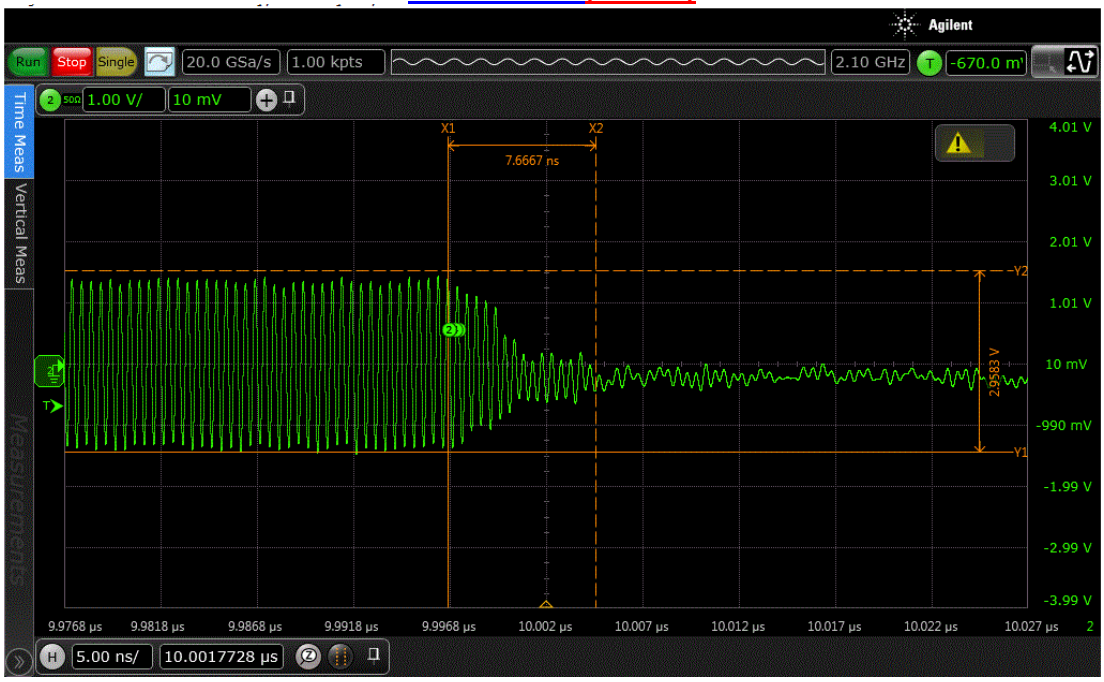
Recovery (2GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
5ns Per Div. (7.22ns)



Recovery (2GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5ns Per Div. (7.66ns)



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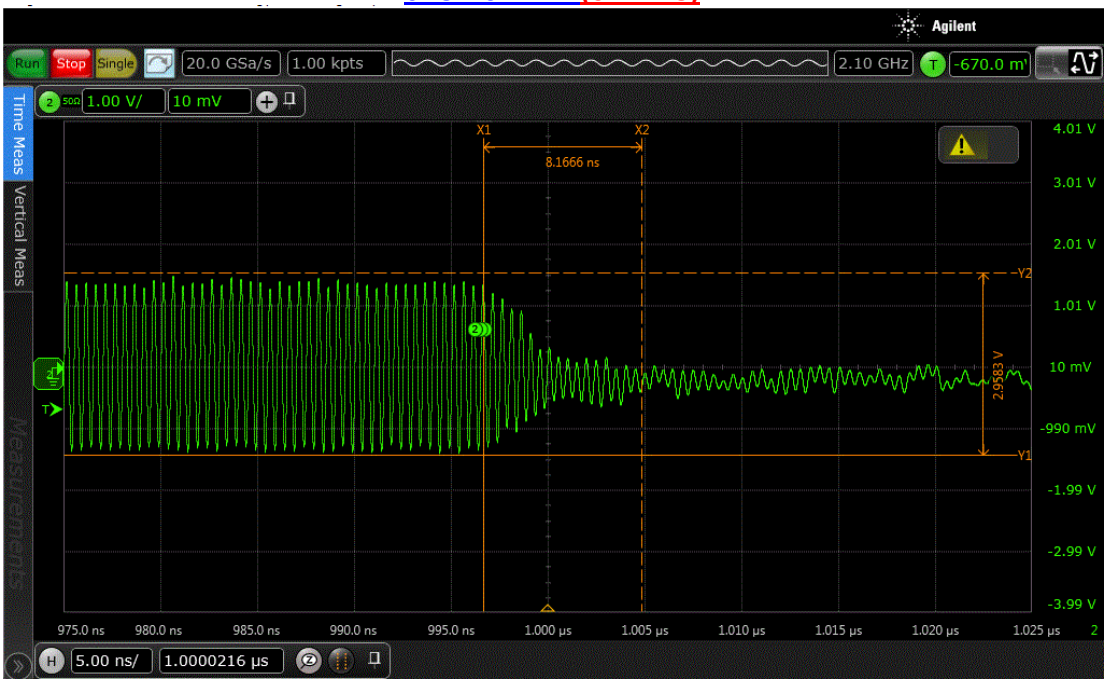
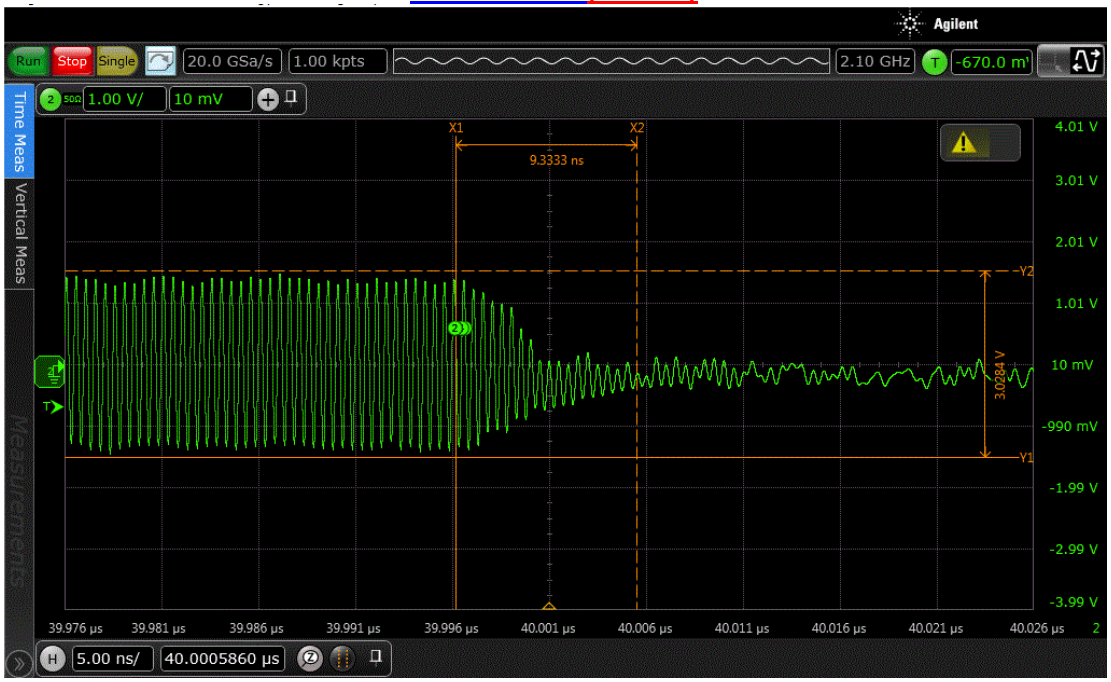
Recovery (2GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
5ns Per Div. (8.17 ns)



Recovery (2GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
5ns Per Div. (9.33ns)



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