



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH



August 27, 2014

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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

Summary Test Data

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
J1 - Receive Input				
1	Frequency	100MHz-18GHz	100MHz-18GHz	
2	Input Power Level	-80 dBm to -10 dBm	-80 dBm to -10 dBm	
J5 - IF Input				
3	Frequency	100MHz-4GHz	100MHz-4GHz	
4	Input Power Level	0 dBm Typical	0 dBm	
J7 LO1 Input				
5	Frequency	4GHz-20GHz	4GHz-20GHz	
6	Input Power Level	+15 dBm Typ.	+15 dBm	
J8 LO2 Input				
7	Input Frequency	4GHz-20GHz	4GHz-20GHz	
8	Input Power Level	+15 dBm Typ.	+15 dBm	
J4 IF Output				
9	Output Frequency	100MHz - 4GHz	100MHz - 4GHz	
10	Output Power Level	0dBm Typical for Limited SDLVA channels	0dBm to +10dBm	

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J10 TX Output				
11	Output Frequency	100MHz-18GHz	100MHz-18GHz	
12	Output Power Level	0 dBm to +10 dBm Typical with use of variable attenuator	0dBm to +10dBm with use of variable attenuator	
SDLVA 1 (PL15157, See Data Attached)				
SDLVA 2 (PL15003, See Data Attached)				
Control Logic - LVDS				
13	LVDS 1	Receive 0 - Baseband Channel 1 - High Frequency Channel	0 - Baseband Channel 1 - High Frequency Channel	
14	LVDS 2	SDLVA2 0 - Limited Output 1 - Linear Output	0 - Limited Output 1 - Linear Output	
15	LVDS 3	SDLVA1 0 - Limited Output 1 - Linear Output	0 - Limited Output 1 - Linear Output	
16	LVDS 4	00000 - 0 dB Atten. 11111 - 31 dB Atten.	00000 - 0 dB Atten. 11111 - 31 dB Atten.	
17	LVDS 5	0 - Output to TX Filter Bank, RX- Backplane/Input (J1) 1 - Output to RX Filter Bank, RX- Transceiver Input	0 - Output to TX Filter Bank, RX- Backplane/Input (J1) 1 - Output to RX Filter Bank, RX- Transceiver Input	
18	LVDS 6	Receive Channel 000 - Thru Channel 001 - Channel 1 010 - Channel 2 011 - Channel 3 100 - Channel 4 101 - Channel 5 110 Not Defined 111 - Not Defined	000 - Thru Channel 001 - Channel 1 010 - Channel 2 011 - Channel 3 100 - Channel 4 101 - Channel 5 110 Not Defined 111 - Not Defined	
19	LVDS 7	Transmit 0 - Baseband Chan. 1 - High Freq. Chan.	0 - Baseband Chan. 1 - High Freq. Chan.	
20	LVDS 8	Transmit Channel 000 - Thru Channel 001 - Channel 1	000 - Thru Channel 001 - Channel 1	

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		010 – Channel 2 011 – Channel 3 100 – Channel 4 101 – Channel 5 110 Not Defined 111 – Not Defined	010 – Channel 2 011 – Channel 3 100 – Channel 4 101 – Channel 5 110 Not Defined 111 – Not Defined	
21	LVDS X	00 M1-LO1 M2-LO1 01 M1-LO1 M2-LO2 10 M1-LO2 M2-LO1 11 M1-LO2 M2-LO2	00 M1-LO1 M2-LO1 01 M1-LO1 M2-LO2 10 M1-LO2 M2-LO1 11 M1-LO2 M2-LO2	
22	Power Supply	+12V -12V +5V +3.3V	+12V @ 1.3 A -12V @ 759 mA +5V @ 684 mA +3.3V @ 395 mA	
Transmit Filter Bank (PL15672, See Data Attached)				
Receive Filter Bank (PL15447, See Data Attached)				
Transceiver Module (PL15496, See Data Attached)				



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

SDLVA-100M3G-70-MAH SUMMARY DATA

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	0.1GHz-3GHz	0.1 to 3.0 GHz	HCH 5/28
2	Frequency Flatness	±2.0 dB Max.	1.0dB	↓
3	TSS	-68 dBm Min., -70 dBm Typ.	-68 dBm	
4	Limited Output Power	+6.5 dBm ± 3.0 dB Max.	+9.1 dBm	
3	Linear Output Gain	38dB ± 3.0 dB Max.	40.5 dB	
6	Linear Output Psat	6 dBm ± 3.0 dB Max.	3.4 dBm	
7	VSWR	2.0:1 Max.	1.79 :1	
8	V0 (Video Comparator Signal Amplitude)	3.3V Typ.	3.6 V	
9	Video Comparator Delay	50 ns Typ.	34.5 ns	
10	Video Comparator Threshold Level	-64 dBm ± 3.0 dB Max.	-63.5 dBm	
11	V1 (Log Video Signal Amplitude)	1 Volt Max.	.793 V	
12	Log Slope	10mV/dB into a 50Ω load (±1mV) Max.	9.56 mV/dB	
13	Log Range	-65 to +5 dBm Min.	-65 to +5 dBm	
14	Log Linearity	±1.50dB (-40°C to +85°C) Max.	+1.28dB -1.16dB	



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

15	Pulse Range	100ns to CW	100ns to CW	H L H
16	Rise Time	35ns Typ.	31.2 ns	↓
17	Settling time to ±1dB	50ns Typ.	46.7ns	
18	Recovery Time	200ns Max. (150ns Typ.)	198ns	
19	SPST Isolation	70dB Typ.	72dB	
20	SPST Switch Speed	20ns Typ.	20ns	
21	Power Supply	±12 VDC to ±15VDC	4.4 W	



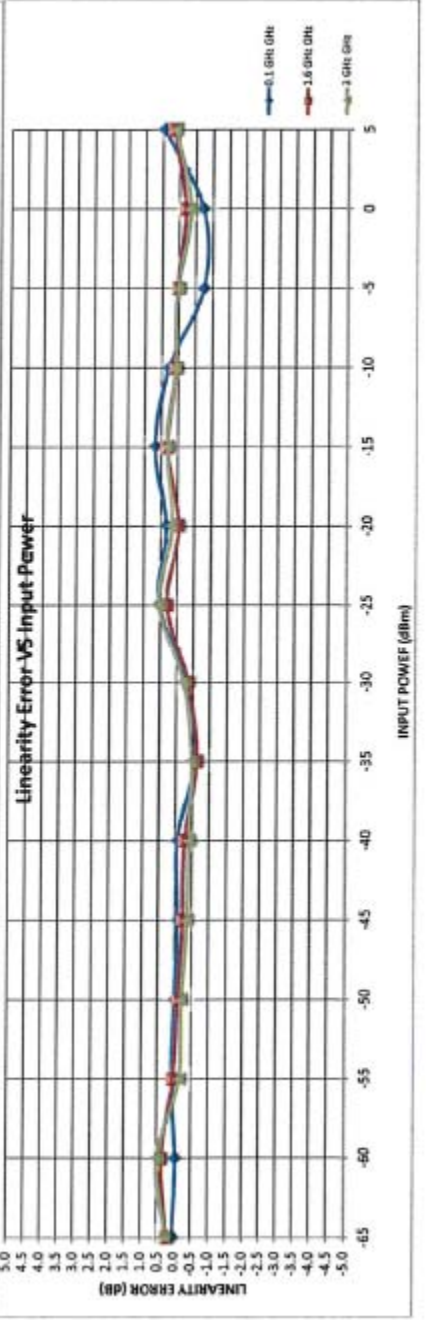
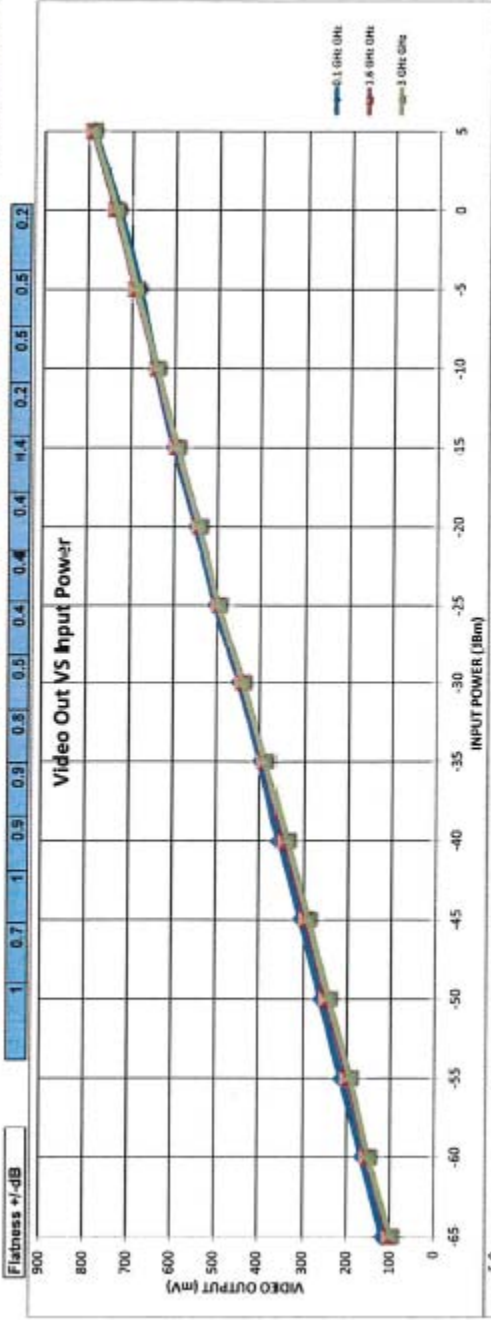
TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-100M18G-3U-MAH
 TESTED BY: S.Baughman
 TEST DATE: 06/28/14
 SERIAL NO: PL15157
 TEST TEMP: +25C



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Frequency	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
0.1 GHz	117	164	213	260	307	356	398	448	504	604	645	683	731	790	
	0	1	0	-1	0	-5	3	5	3	7	3	-7	-7	4	
	0.05	-0.03	0.09	0.01	-0.07	-0.05	-0.85	-0.32	0.54	0.35	0.29	-0.73	-0.71	0.46	
1.5 GHz	102	153	199	247	295	344	390	442	498	544	597	644	693	740	793
	2	4	1	-1	-2	-3	-6	-3	0	3	1	1	-2	2	
	0.24	0.40	0.06	-0.08	-0.22	-0.26	-0.81	-0.34	0.32	-0.02	0.35	0.10	0.08	-0.18	0.18
3 GHz	98	150	193	242	290	339	388	440	497	543	596	641	690	736	790
	3	5	-1	-2	-3	-4	-5	-2	5	2	3	1	0	-3	1
	0.27	0.52	-0.14	-0.10	-0.36	-0.40	-0.46	-0.21	0.54	0.19	0.34	0.08	0.03	-0.33	0.12





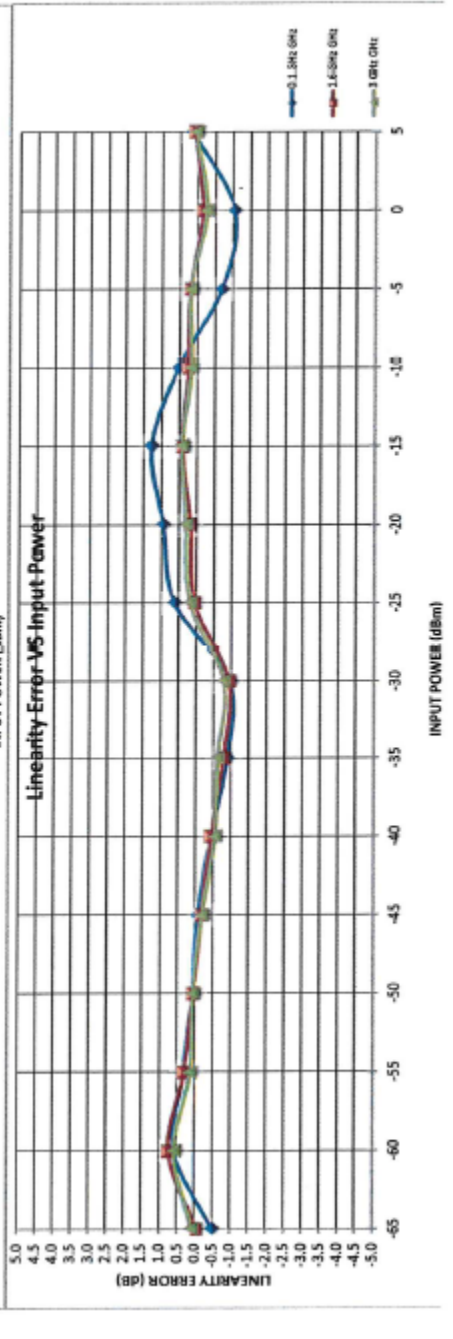
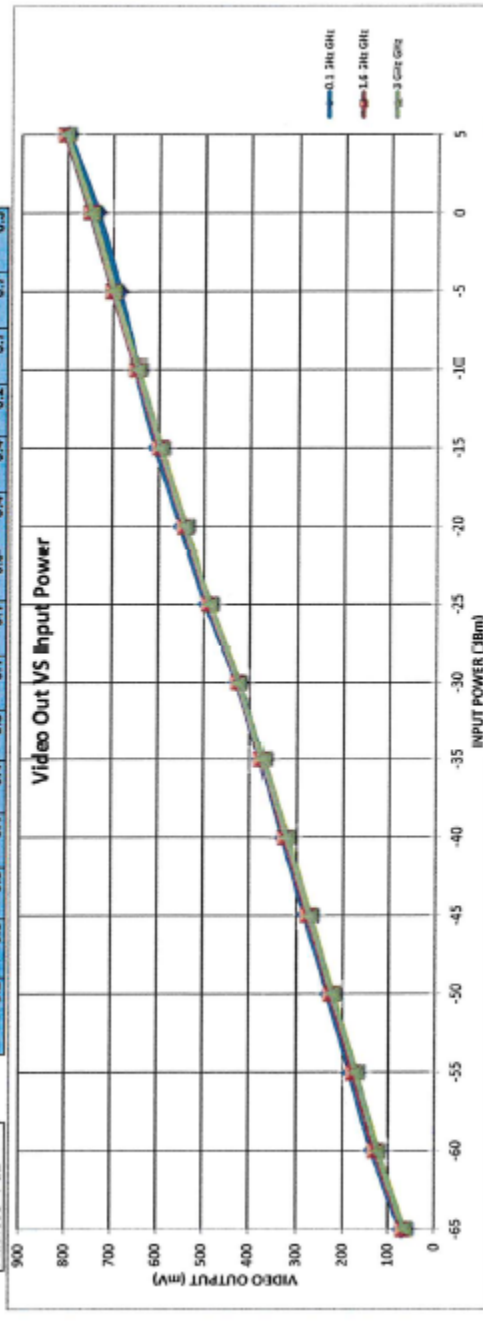
TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLYA-100M3G-70-MAH
 TESTED BY: SBaughman
 TEST DATE: 05/28/14
 SERIAL NO: PL16187
 TEST TEMP: -40C



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Frequency	-65	-60	-55	-50	-46	-40	-36	-30	-29	-20	-15	-10	-5	0	5
0.1 GHz	70	133	182	231	281	329	376	427	485	550	605	649	688	736	800
Measured Value (mV)	747														
SLOPE (mV/dB)	10.3														
1.6 GHz	-0.51	0.59	0.34	0.08	-0.43	-0.89	-1.28	-1.77	-2.26	-2.75	-3.24	-3.73	-4.22	-4.71	-5.20
Measured Value (mV)	752														
SLOPE (mV/dB)	10.5														
3 GHz	0.09	0.59	0.14	0.08	-0.18	-0.54	-0.91	-1.28	-1.65	-2.02	-2.39	-2.76	-3.13	-3.50	-3.87
Measured Value (mV)	750														
SLOPE (mV/dB)	10.5														



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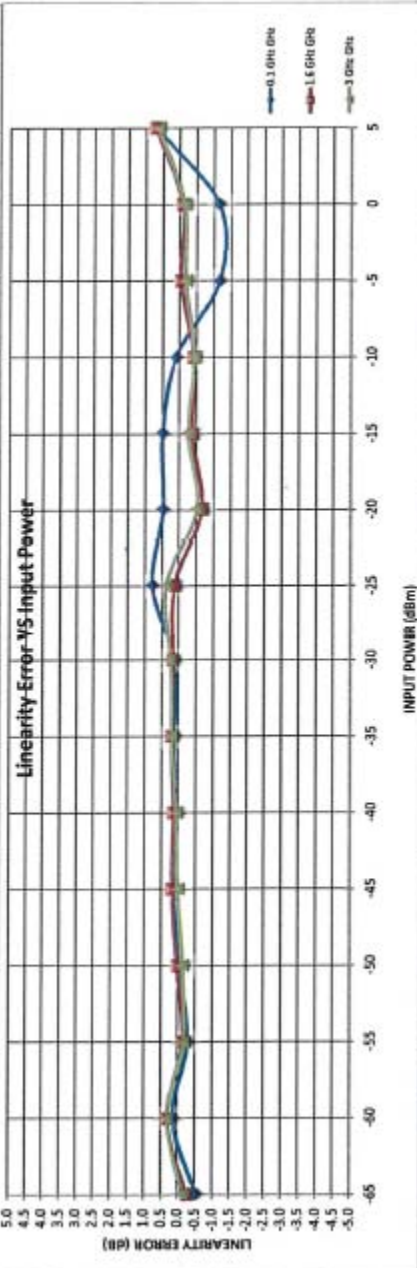
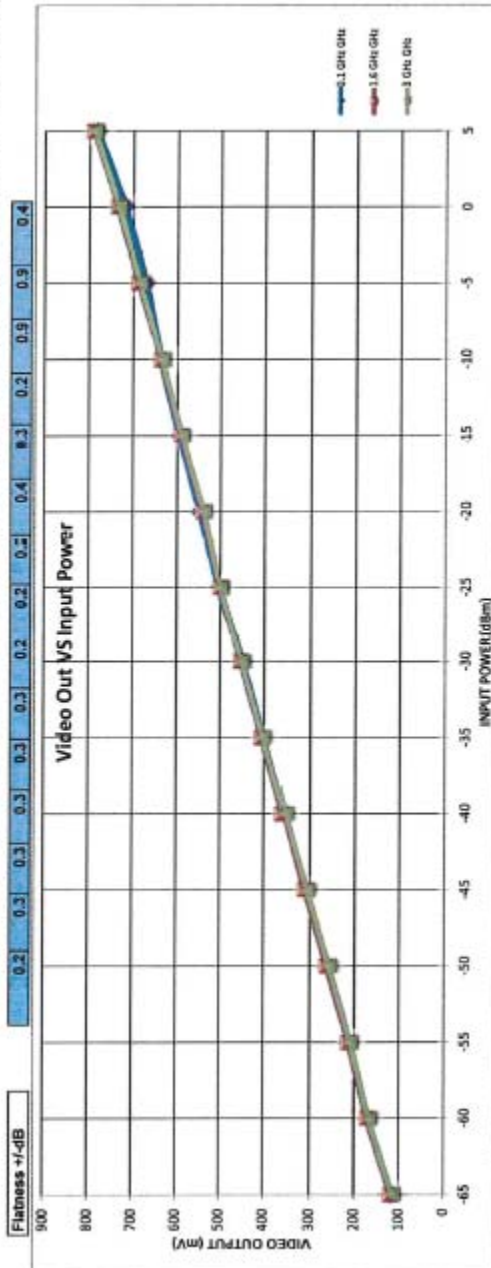
TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH



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LOG TRANSFER WITH FREQUENCY
 MODEL: SOLVA-100M3 G-70-MAH
 TESTED BY: S.Baughman
 TEST DATE: 05/28/14
 SERIAL NO: PL15157
 TEST TEMP: +88C

Frequency	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
0.1 GHz	117	170	213	262	310	357	404	451	504	548	591	638	673	720	784
1.6 GHz	-5	1	-3	0	1	1	1	1	7	5	6	1	-11	-11	7
3 GHz	-0.53	0.13	-0.28	-0.05	0.06	0.10	0.12	0.14	0.80	0.49	0.58	0.10	-1.16	-1.14	0.70
Intercept (mV)	731	738	735	735	735	735	735	735	735	735	735	735	735	735	735
Slope (mV/dB)	9.36	9.48	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52



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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

SDLVA-3G18G-CW-70-MAH SUMMARY DATA

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC	
1	Frequency Range	2GHz-18GHz	2-18 GHz	<i>EJF</i>	
2	Frequency Flatness	±2.0 dB Max.	+/-1.2 dB	↓	
3	TSS	-68 dBm Min., -70 dBm Typ.	-68 dBm		
4	Limited Output Power	+6.5 dBm ±3.0dBm Max.	7dBm +/- 2.0dB		
5	VSWR	2.0:1 Max.	1.78:1		
6	Linear Output Gain	43dB ±3.0dB Max.	45dB +/-0.6dB		
7	Linear Output Psat	3 dBm ±3.0dB Max.	3dBm +/-1.5dB		
8	V0 (Video Comparator Signal Amplitude)	3.3V Typ	3.3 V		
9	Video Comparator Delay	50 ns Typ.	43 ns		
10	Video Comparator Threshold Level	-64 dBm ± 3.0 dB Max.	-64dBm +/-2dB		
11	V1 (Log Video Signal Amplitude)	1 Volt Max.	0.82V		
12	Log Slope	10mV/dB into a 50Ω load (±1mV) Max.	10.4 V/dB		
13	Log Range	-65 to +5 dBm Min.	-65 to +5 dBm		↓



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
14	Log Linearity	$\pm 1.75\text{dB}$ (-40°C to $+85^{\circ}\text{C}$) Max.	$\pm 1.26\text{ dB}$	<i>ES</i>
15	Pulse Range	100ns to 250 μs	100ns to 250 μs	↓
16	Rise Time	35ns Max.	25 ns	
17	Settling time to $\pm 1\text{dB}$	50ns Typ.	42 ns	
18	Recovery Time	200ns Max. (150ns Typ.)	200 ns	
19	CW Immunity Range	TSS to -45 dBm (1dB degradation)	0.8 dB	
20	Pulse Considered CW	1ms Typ.	.7 ms	
21	Rejection Time	1ms Typ.	0.3 ms	
22	Droop	1dB Max.	0 dB	
23	SPST Isolation	70dB Typ.	72 dB	
24	SPST Switch Speed	20ns Typ.	20 ns	
25	Power Supply	$\pm 12\text{VDC}$ to $\pm 15\text{VDC}$	$\pm 12\text{VDC}$ to $\pm 15\text{VDC}$	



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

LOG TRANSFER WITH FREQUENCY @
 MODEL: SDLVA-3G18G-70-MAH
 TESTED BY: S.Baughman
 TEST DATE: 04/24/14
 SERIAL NO: PL15003
 TEST TEMP: +25C



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Frequency

2 GHz	INTERCEPT (mV)	773.7
	SLOPE (mV/dB)	10.1

10 GHz	INTERCEPT (mV)	769.9
	SLOPE (mV/dB)	9.977

18 GHz	INTERCEPT (mV)	775.2
	SLOPE (mV/dB)	10.41

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
113	167	218	270	324	376	424	469	513	569	619	671	726	777	824	
-4	-1	0	1	5	6	4	-2	-8	-3	-3	-2	3	3	0	
-0.41	-0.06	-0.01	0.13	0.48	0.63	0.78	-0.17	-0.81	-0.25	-0.21	0.17	0.28	0.33	0.22	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
118	171	222	271	325	378	424	469	512	567	617	668	723	773	821	
-3	0	1	0	4	7	3	-2	-8	-3	-3	-2	3	3	1	
-0.34	-0.03	0.08	-0.01	0.41	0.72	0.33	-0.16	-0.85	-0.34	-0.33	-0.21	0.30	0.31	0.12	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
101	149	199	250	303	360	417	469	518	568	619	670	725	774	822	
2	-2	-4	-5	-4	1	6	6	3	1	0	-1	2	-1	-5	
0.23	-0.16	-0.36	-0.46	-0.37	0.11	0.59	0.58	0.29	0.09	-0.01	-0.11	0.18	-0.11	-0.50	

Flatness dB

0.9	1.1	1.0	1.1	1.1	0.9	0.4	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
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RF Input Power (dBm)

Measured Value (mV)

Error (mV)

LINEARITY ERROR (dB)

Measured Value (mV)

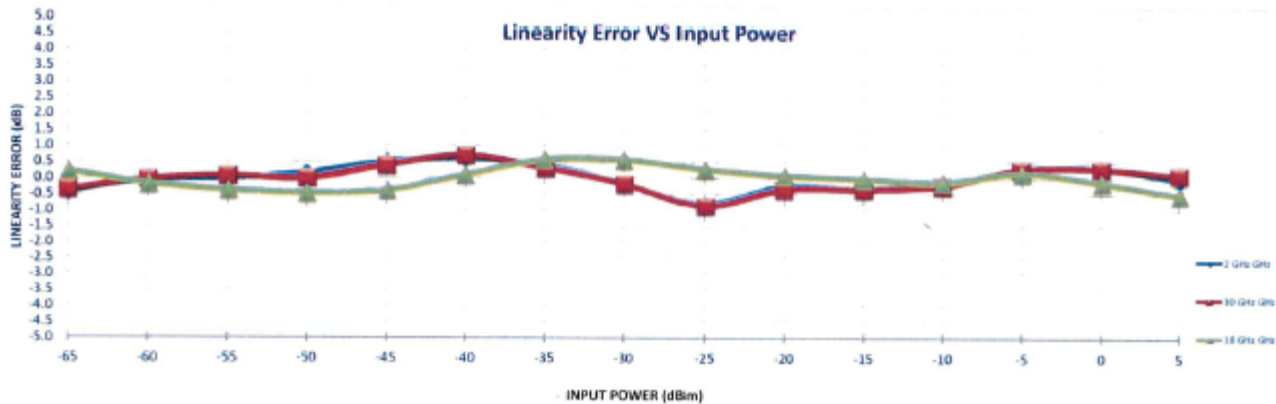
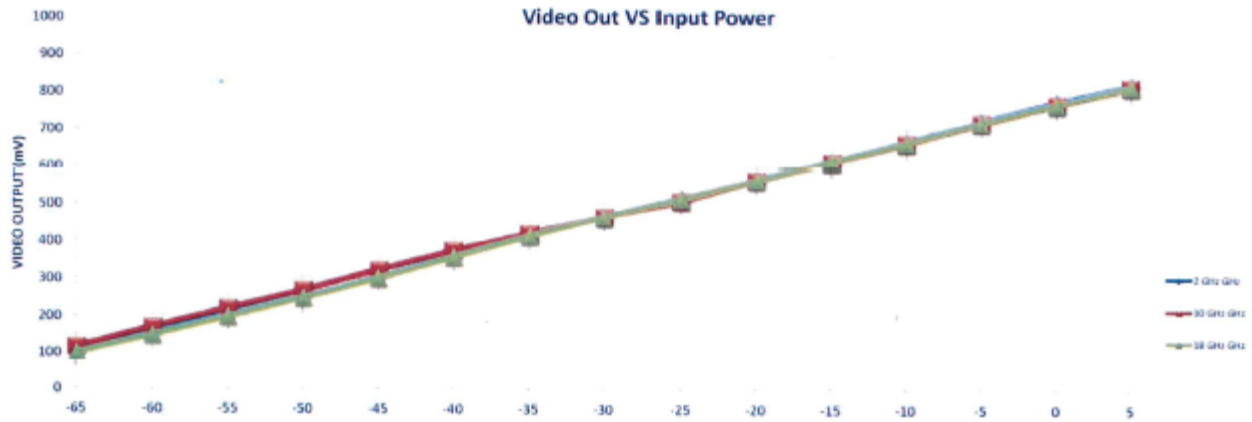
Error (mV)

LINEARITY ERROR (dB)

Measured Value (mV)

Error (mV)

LINEARITY ERROR (dB)



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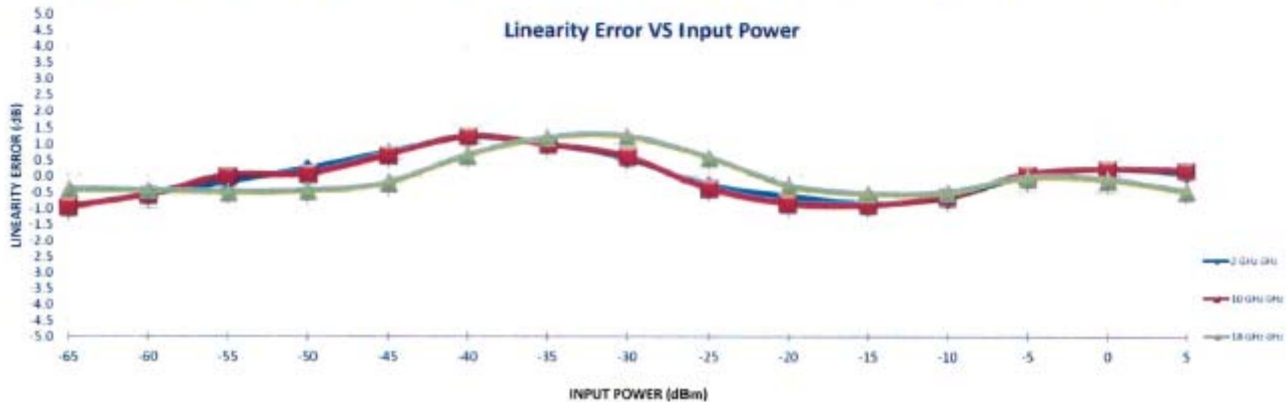
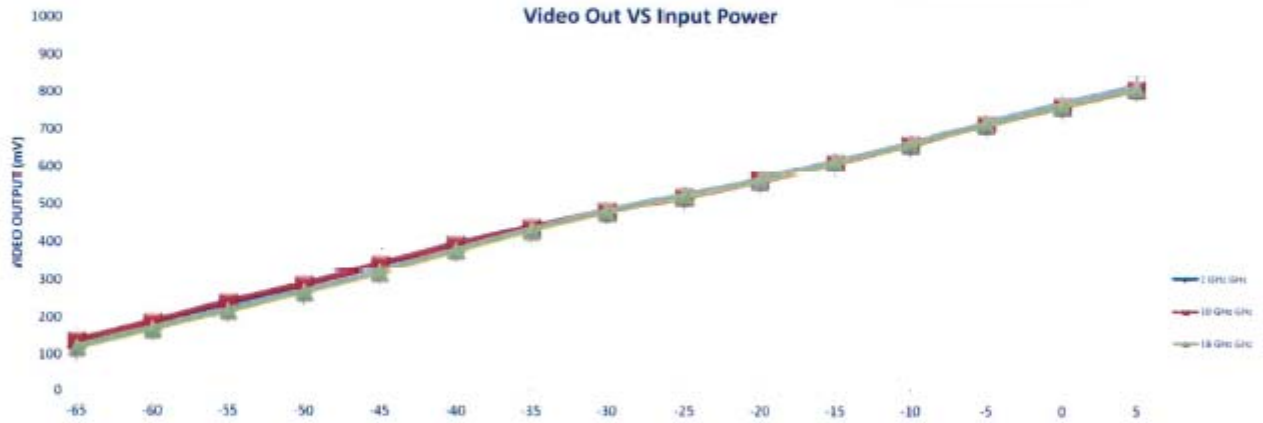
LOG TRANSFER WITH FREQUENCY @
 MODEL: SDLVA-3G18G-70-MAH
 TESTED BY: S.Baughman
 TEST DATE: 04/24/14
 SERIAL NO: PL15003
 TEST TEMP: -40C



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Frequency

		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	132	184	236	288	341	394	440	484	524	569	615	665	720	770	817	Measured Value (mV)
	SLOPE (mV/dB)	-9	-5	-2	2	7	12	10	5	-3	-6	-8	-8	0	2	1	Error (mV)
		-0.96	-0.56	-0.17	0.23	0.73	1.22	1.00	0.56	-0.29	-0.62	-0.85	-0.86	0.04	0.23	0.11	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	138	189	242	290	343	396	441	485	523	566	613	663	717	766	813	Measured Value (mV)
	SLOPE (mV/dB)	-9	-5	0	1	6	12	9	6	-3	-8	-8	-6	1	2	2	Error (mV)
		-0.93	-0.56	0.03	0.08	0.67	1.25	1.00	0.63	-0.36	-0.83	-0.88	-0.61	0.08	0.24	0.19	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	121	170	219	269	321	379	434	484	527	568	615	665	719	768	814	Measured Value (mV)
	SLOPE (mV/dB)	-4	-4	-5	-4	-2	7	12	12	6	-3	-5	-5	0	-1	-4	Error (mV)
		-0.37	-0.42	-0.48	-0.43	-0.19	0.66	1.21	1.26	0.60	-0.27	-0.53	-0.48	-0.03	-0.09	-0.45	LINEARITY ERROR (dB)
Flatness (dB)		0.9	1	1.2	1.1	1.2	0.9	0.4	0.1	0.7	0.2	0.1	0.1	0.2	0.2	0.3	



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LOG TRANSFER WITH FREQUENCY @
 MODEL: SDLVA-3G18G-70-MAH
 TESTED BY: S.Baughman
 TEST DATE: 04/24/14
 SERIAL NO: PL15003
 TEST TEMP: +85C



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 EMAIL: SALES@PMI-RF.COM

Frequency

2 GHz	INTERCEPT (mV)	797.3
	SLOPE (mV/dB)	10.27

10 GHz	INTERCEPT (mV)	792.3
	SLOPE (mV/dB)	10.14

18 GHz	INTERCEPT (mV)	795.7
	SLOPE (mV/dB)	10.47

Flatness dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
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125	180	231	285	339	391	441	487	537	592	642	692	748	798	848
-4	-1	-1	1	4	5	3	-2	-3	0	-1	-3	2	1	-1
-0.40	-0.06	-0.08	0.09	0.39	0.45	0.32	-0.21	-0.34	0.01	-0.12	-0.25	0.20	0.06	-0.07

127	183	235	286	341	392	442	486	534	588	638	688	743	793	844
-6	0	0	1	5	5	5	-2	-5	-1	-2	-3	1	1	1
-0.60	-0.04	0.02	0.12	0.51	0.54	0.46	-0.20	-0.47	-0.14	-0.21	-0.28	0.14	0.07	0.09

120	164	218	267	319	378	434	487	539	590	639	689	744	794	844
5	-4	-2	-5	-6	1	5	5	5	4	0	-2	1	-2	-4
0.45	-0.34	-0.20	-0.50	-0.55	0.08	0.44	0.50	0.47	0.34	0.02	-0.20	0.06	-0.17	-0.39

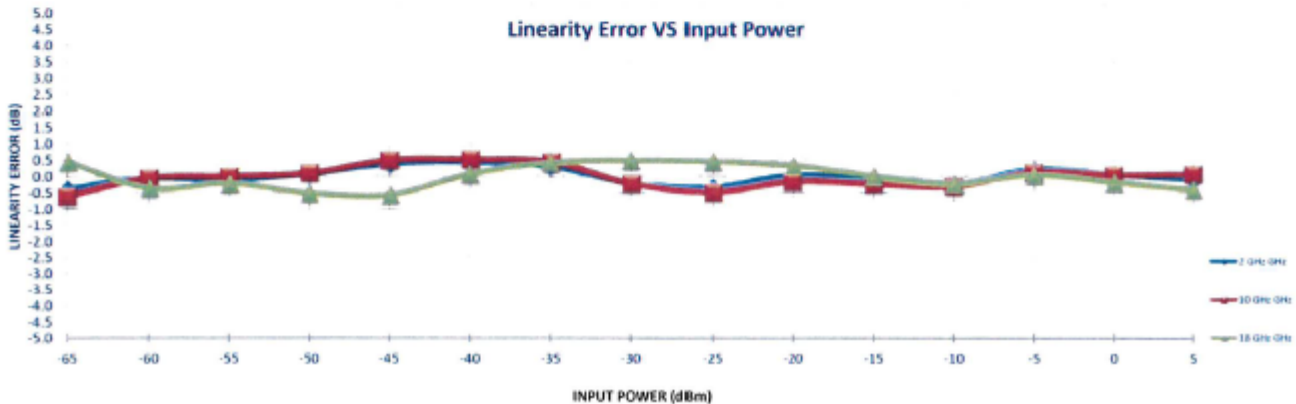
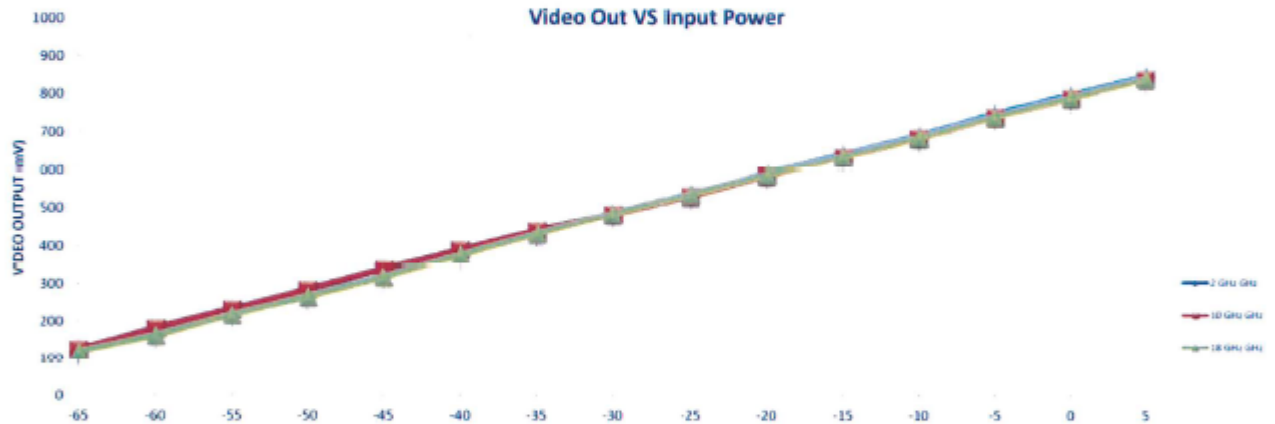
0.3	0.9	0.8	0.9	1.1	0.7	0.4	0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
-----	-----	-----	-----	-----	-----	-----	---	-----	-----	-----	-----	-----	-----	-----

RF Input Power (dBm)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)



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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

6SFB-100M18G-1MP-MAH-TX SUMMARY DATA

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency	100 MHz-18.0 GHz	100 MHz-18.0 GHz	PMI QA1
2	Switching Speed	100 ns Typ.	85ns See Plots	
3	J2 Input Frequency (Input from Transceiver)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
4	J2 Input Power Level	-58 dBm to -28dBm	-58 dBm to -28dBm	
5	J3 Output Frequency (Output to Backplane)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
6	J3 Output Power Level	0 dBm to +10dBm Typ. when input is -28 dBm	-0.08 to +10.43dBm	
7	Thru Channel Passband Frequency	100 MHz-18 GHz	100 MHz - 18 GHz	
8	Channel 1 Center Frequency	3400 MHz	3400MHz	
9	Channel 1 (3 dB Bandwidth)	2000 MHz	2000MHz	
10	Channel 1 Rejection	-40 dBc TYP, -30 dBc MIN 100 MHz-2 GHz, 4.8 GHz-18 GHz	-42.90dBc -41.57dBc	
11	Channel 2 Center Frequency	5400 MHz	5400MHz	
12	Channel 2 (3 dB Bandwidth)	2000 MHz	2000MHz	



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
13	Channel 2 Rejection	-40 dBc TYP, -30 dBc MIN 100 MHz-4 GHz, 6.8 GHz-18 GHz	-35.93dBc -33.15dBc	PMI QA1
14	Channel 3 Center Frequency	7400 MHz	7400MHz	
15	Channel 3 (3 dB Bandwidth)	2000 MHz	2000MHz	
16	Channel 3 Rejection	-40 dBc TYP, -30 dBc MIN 100 MHz-6 GHz, 8.8 GHz-18 GHz	-45.28dBc -31.89dBc	
17	Channel 4 Center Frequency	9400 MHz	9400MHz	
18	Channel 4 (3 dB Bandwidth)	2000 MHz	2000MHz	
19	Channel 4 Rejection	-40 dBc TYP, -30 dBc MIN 100 MHz-8 GHz, 10.8 GHz-18 GHz	-30.69dBc -30.54dBc	
20	Channel 5 Center Frequency	11400 MHz	11400MHz	
21	Channel 5 (3 dB Bandwidth)	2000 MHz	2000MHz	
22	Channel 5 Rejection	-40 dBc TYP, -30 dBc MIN 100 MHz-10 GHz, 12.8 GHz-18 GHz	-57.84dBc -38.4dBc	
23	Control Logic	3.3 V TTL	Pass	
24	Power Supply	+12 V, -12 V, +5 V, +3.3V	125mA@ +5V 255mA@ +12V 107mA@ -12V 0mA@ +3.3V	

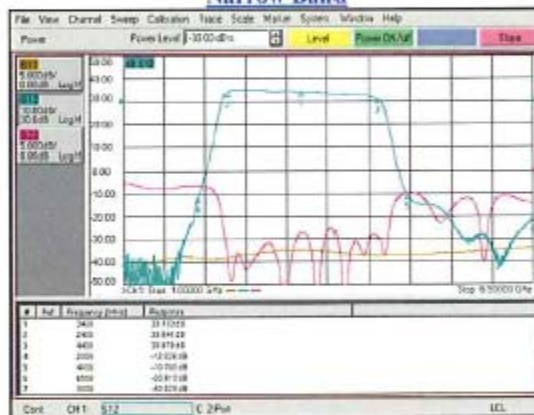


TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

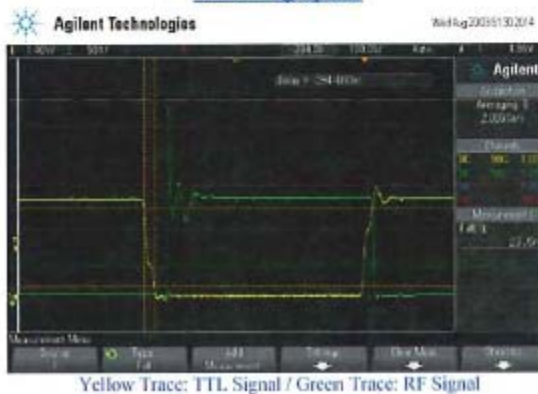
**Channel 1
Broad Band**



Narrow Band



Switching Speed

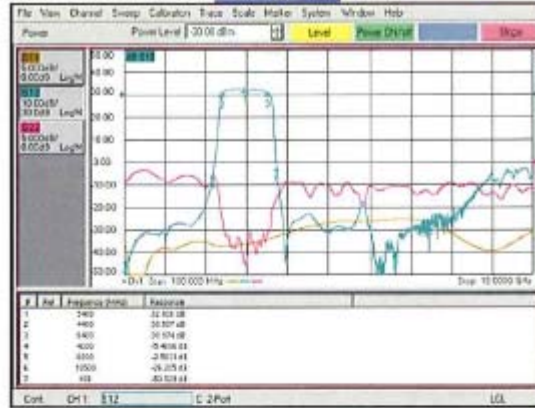


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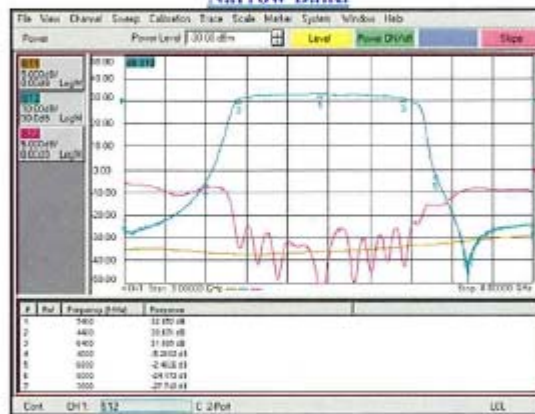


TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

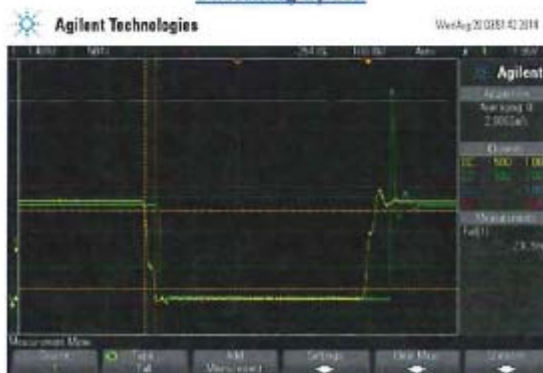
**Channel 2
Broad Band**



Narrow Band



Switching Speed



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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

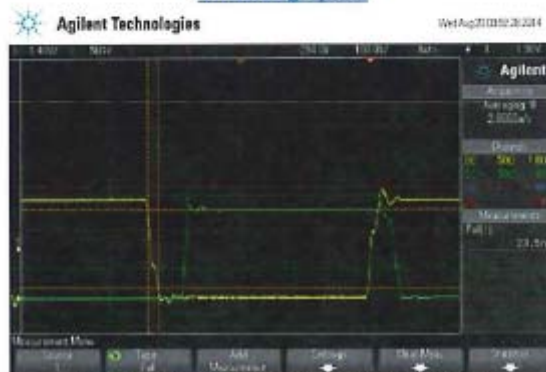
**Channel 3
Broad Band**



Narrow Band



Switching Speed

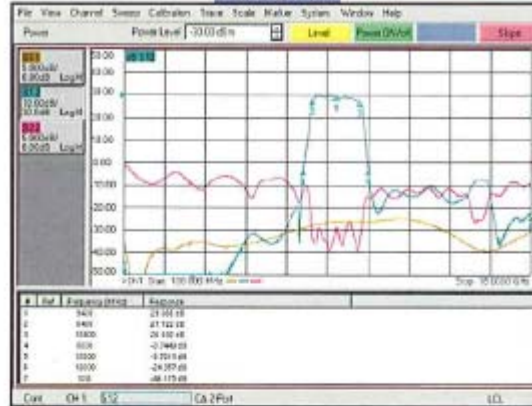


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Email: sales@pmi-rf.com

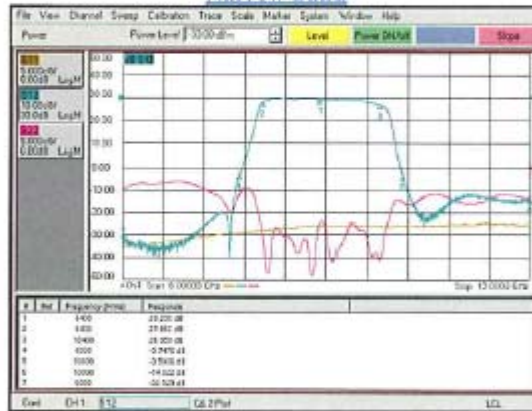


TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

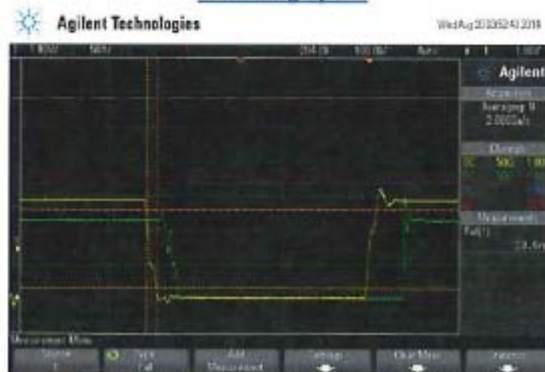
Channel 4 Broad Band



Narrow Band



Switching Speed



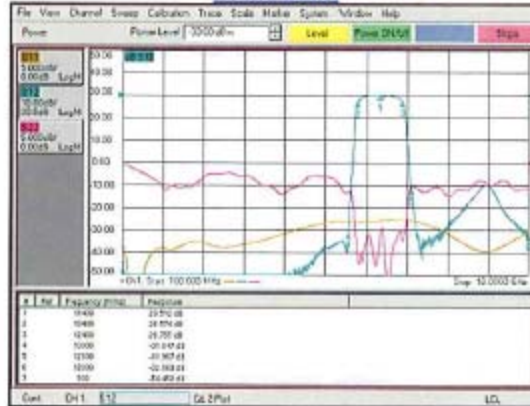
Yellow Trace: TTL Signal / Green Trace: RF Signal

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Email: sales@pmi-rf.com

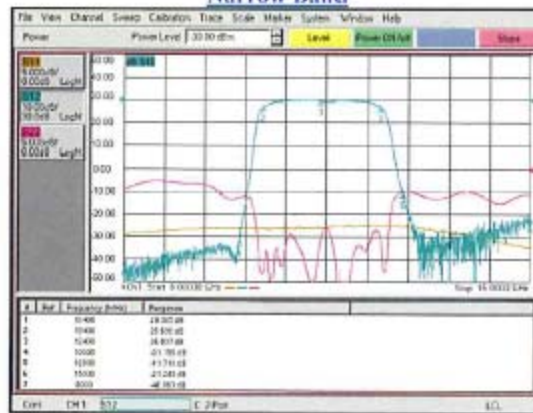


TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

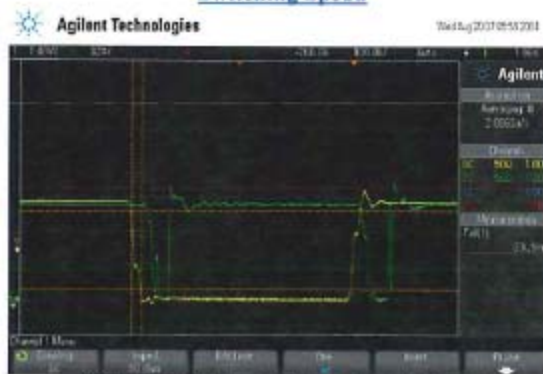
**Channel 5
Broad Band**



Narrow Band



Switching Speed

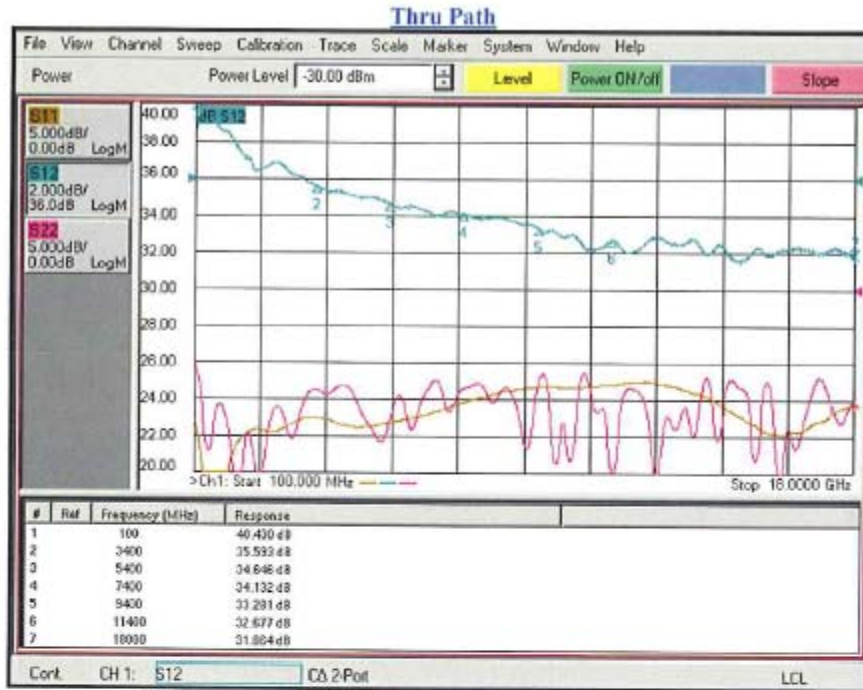


Yellow Trace: TTL Signal / Green Trace: RF Signal

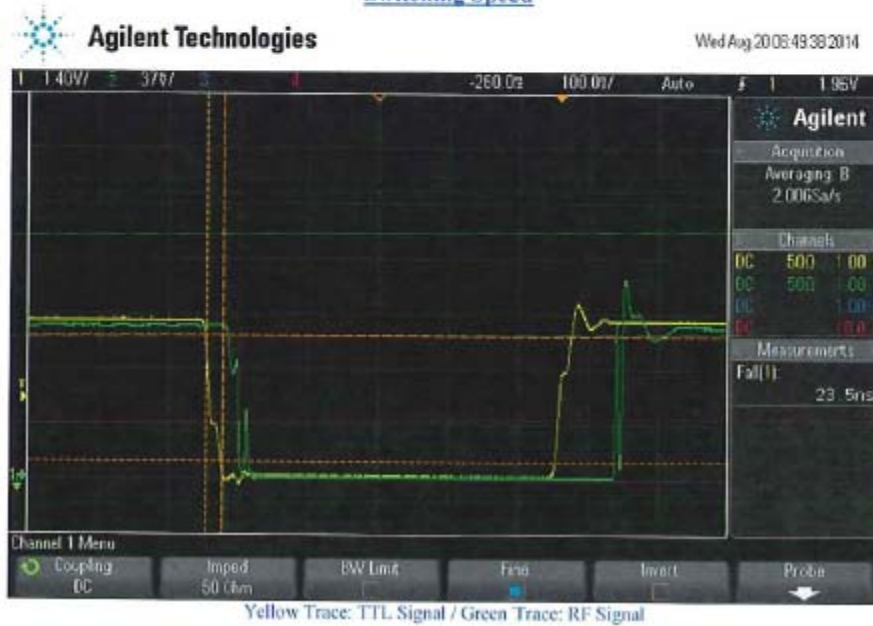
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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH



Switching Speed



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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

6SFB-100M18G-1MP-MAH SUMMARY DATA

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency	100 MHz-18.0 GHz	100 MHz-18.0 GHz	PMI QA 2
2	Gain	18 dB Typ.	18.8 to 25.6dB	
3	Isolation J1, J6	100 dB	100dB Typ	
4	Switching Speed	100 ns	100ns	
5	J1 Input Frequency (Input from Backplane)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
6	J1 Input Power Level	-80 dBm to -10dBm	-80 to -10dBm	
7	J6 Input Frequency (Input from Transceiver)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
8	J6 Input Power Level	-52 dBm to -22dBm	-52 to -22dBm	
9	J3 Output Frequency (LO2 from Backplane)	100 MHz-18.0 GHz	100 MHz-18.0 GHz	
10	J3 Output Power Level	-62 dBm to +8 dBm Typ.	-66 to +4dBm Typ	
11	Thru Channel Passband Frequency	100 MHz-18 GHz	100 MHz - 18 GHz	
12	Channel 1 Center Frequency	3400 MHz	3400 MHz	
13	Channel 1 (3 dB Bandwidth)	2000 MHz	2000 MHz	
14	Channel 1 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-2 GHz, 4.8 GHz-8.5 GHz	59/35dBc Min	
15	Channel 2 Center Frequency	5400 MHz	5400 MHz	PMI QA 2

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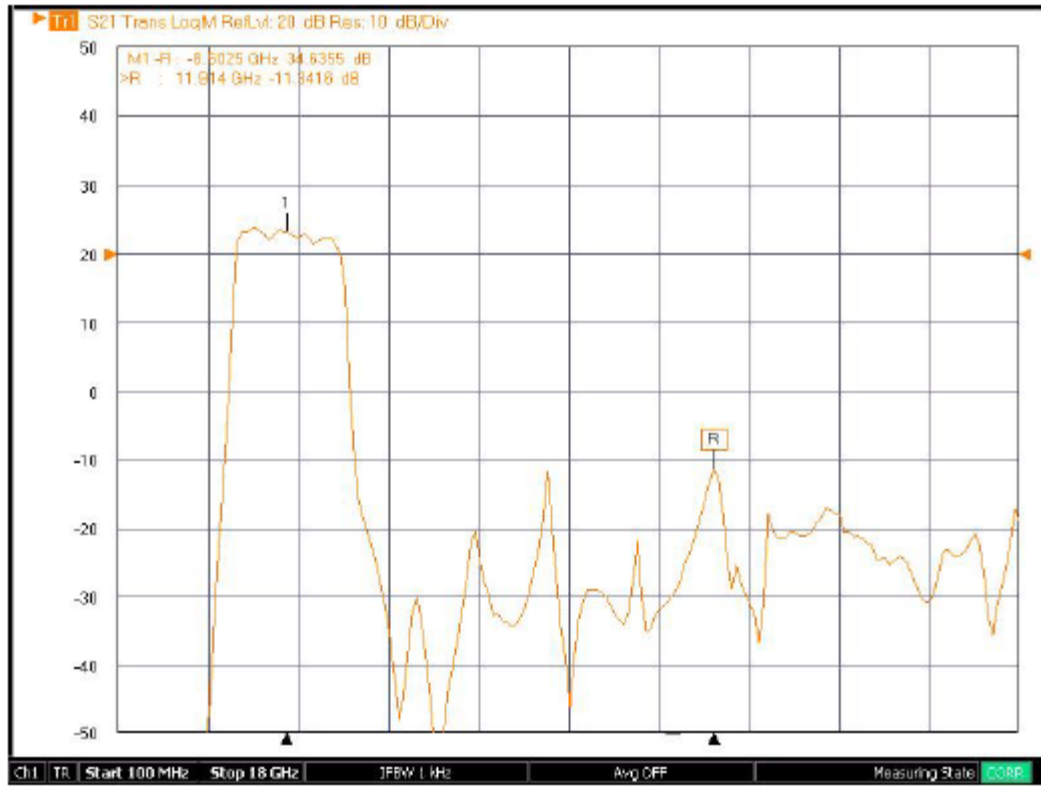
TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
16	Channel 2 (3 dB Bandwidth)	2000 MHz	2000 MHz	PMI QA 2
17	Channel 2 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-4 GHz, 6.8 GHz-13.5 GHz	44/61dBc	
18	Channel 3 Center Frequency	7400 MHz	7400 MHz	
19	Channel 3 dB Bandwidth	2000 MHz	2000 MHz	
20	Channel 3 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-6 GHz, 8.8 GHz-18 GHz	42/33dBc	
21	Channel 4 Center Frequency	9400 MHz	9400 MHz	
22	Channel 4 (3 dB Bandwidth)	2000 MHz	2000 MHz	
23	Channel 4 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-8 GHz, 10.8 GHz-18 GHz	35/37dBc	
24	Channel 5 Center Frequency	11400 MHz	11400 MHz	
25	Channel 5 (3 dB Bandwidth)	2000 MHz	2000 MHz	
26	Channel 5 Rejection	-40 dBc Typ, -30 dBc Min 100 MHz-10 GHz, 12.8 GHz-18 GHz	54/40dBc	
27	Control Logic	3.3 V TTL	3.3V	
28	Power Supply	+12 V, -12 V, +5 V, +3.3V	+12V@ 164mA +5V@ 190mA +3.3V@ 0mA -12V@ 112mA	PMI QA 2



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

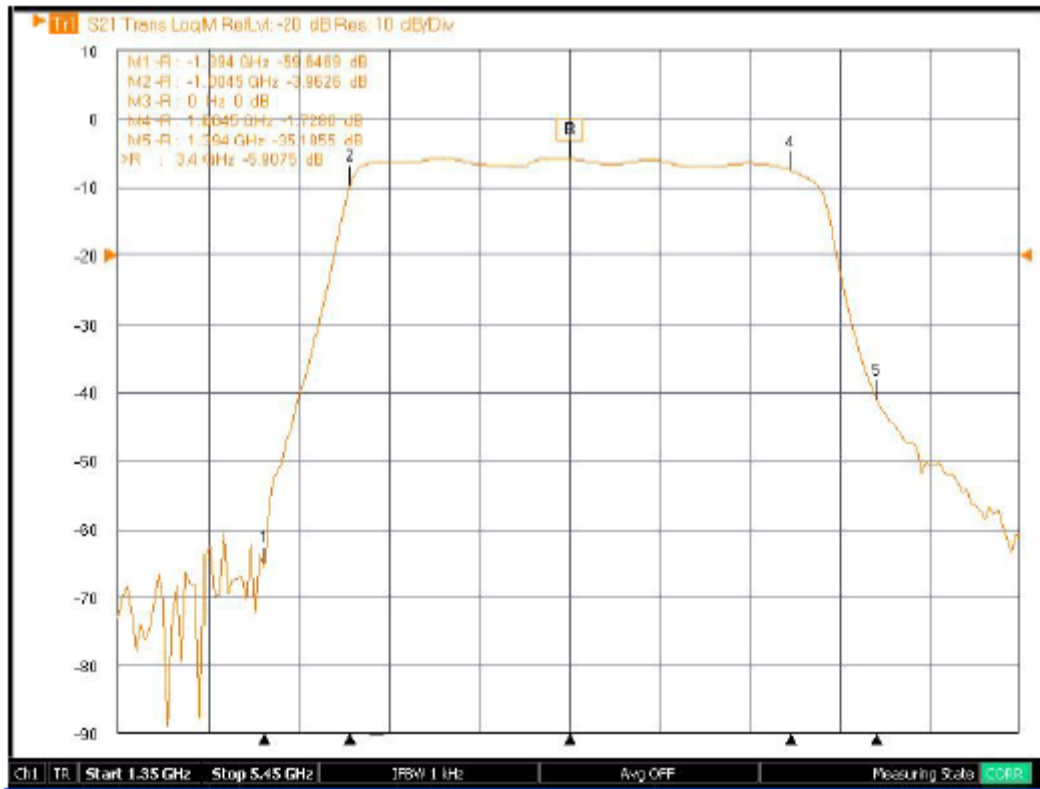
Channel 1 S21Broadband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

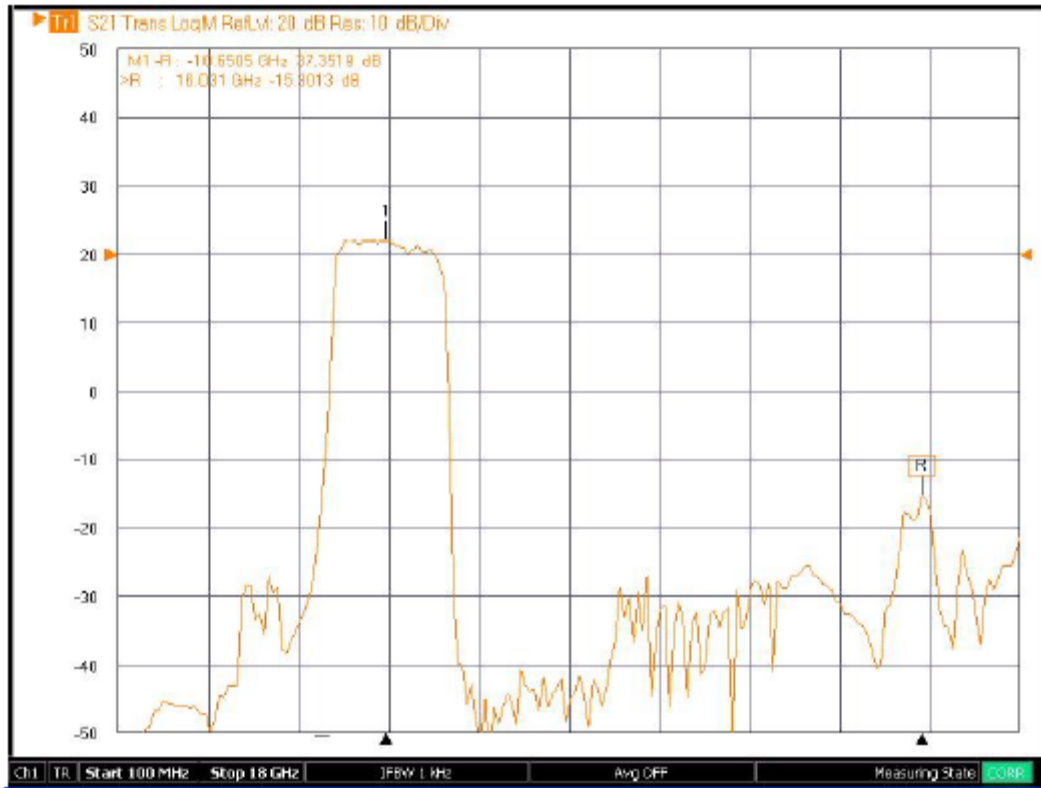
Channel 1 S21 Narrowband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

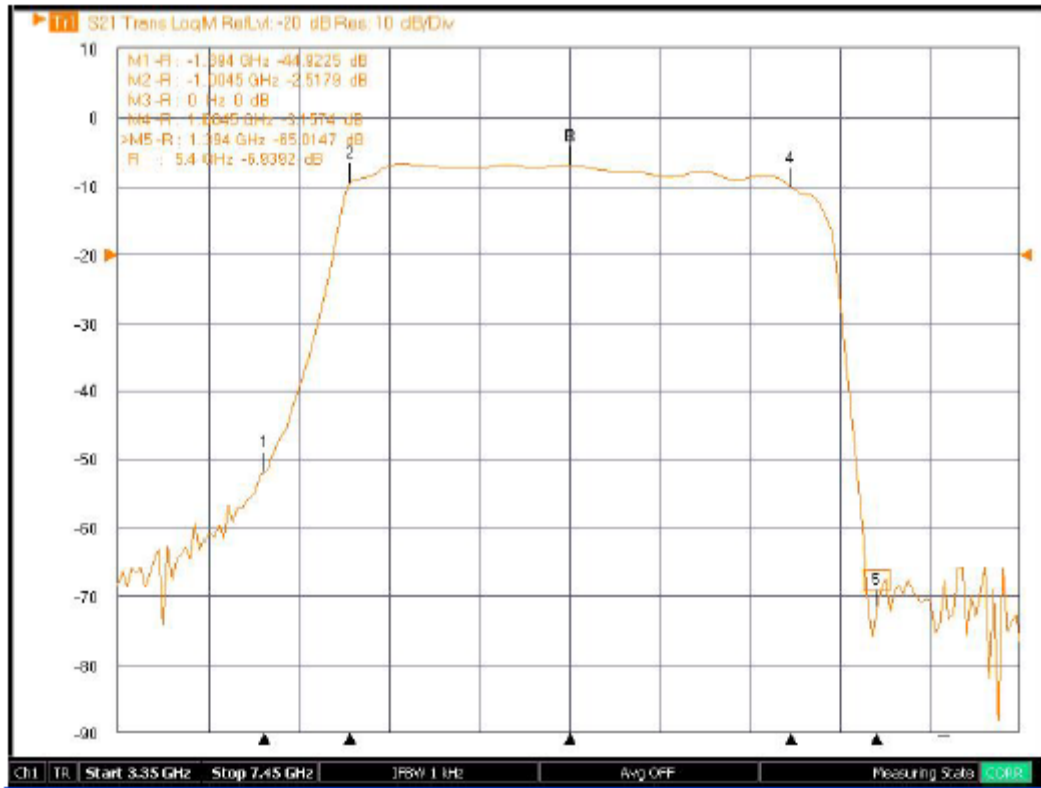
Channel 2 S21 Broadband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

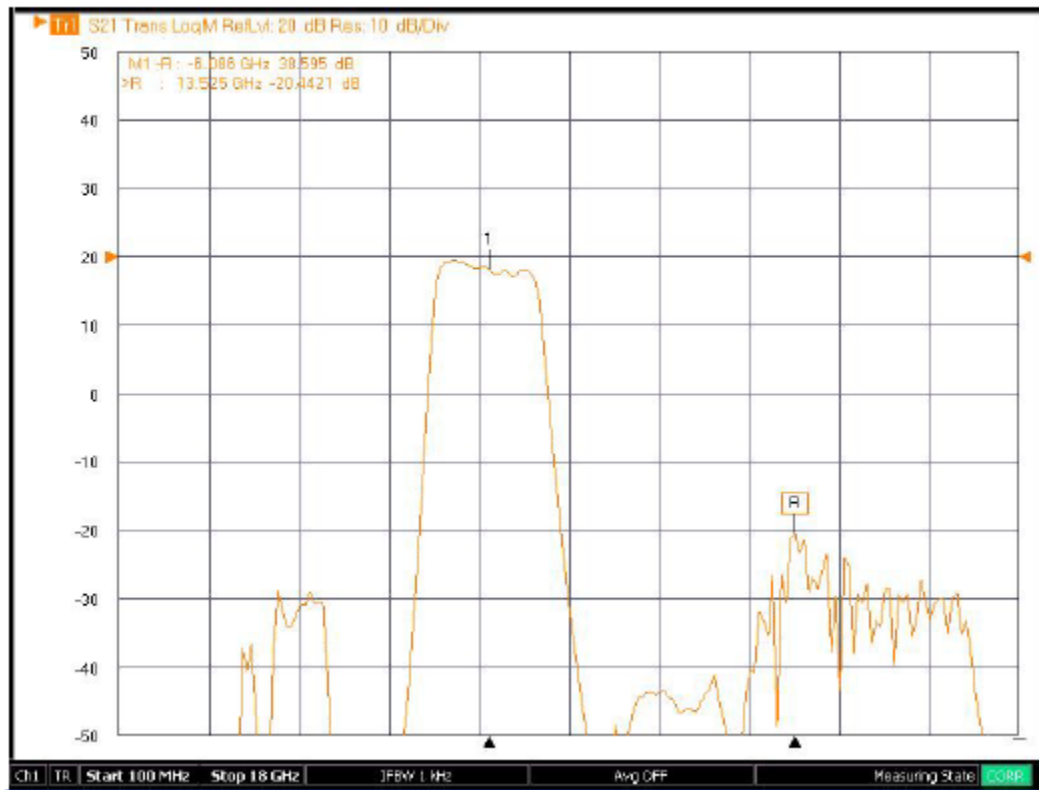
Channel 2 S21 Narrowband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

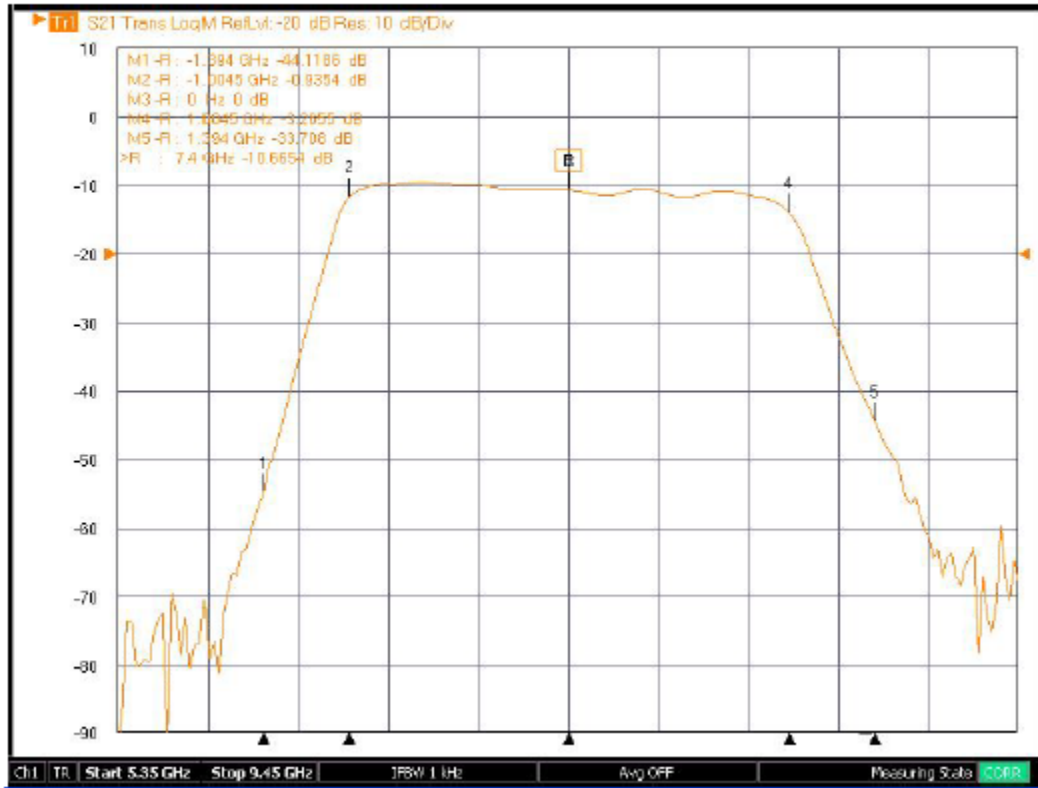
Channel 3 S21 Broadband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

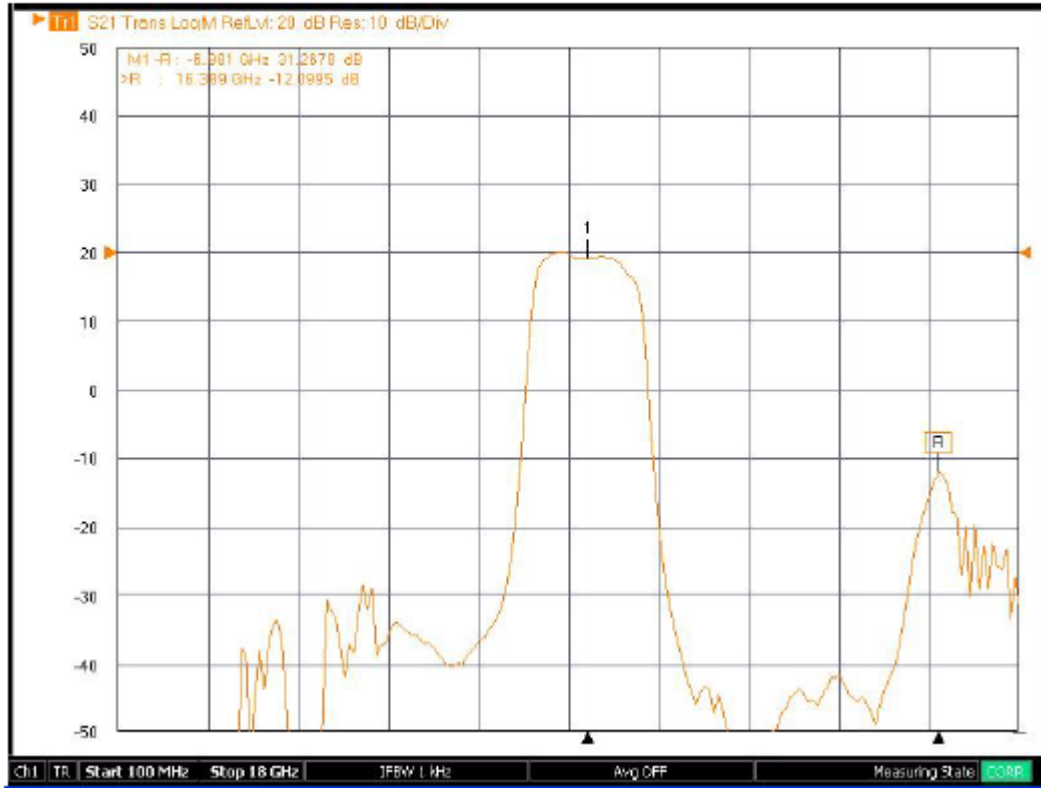
Channel 3 S21 Narrowband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

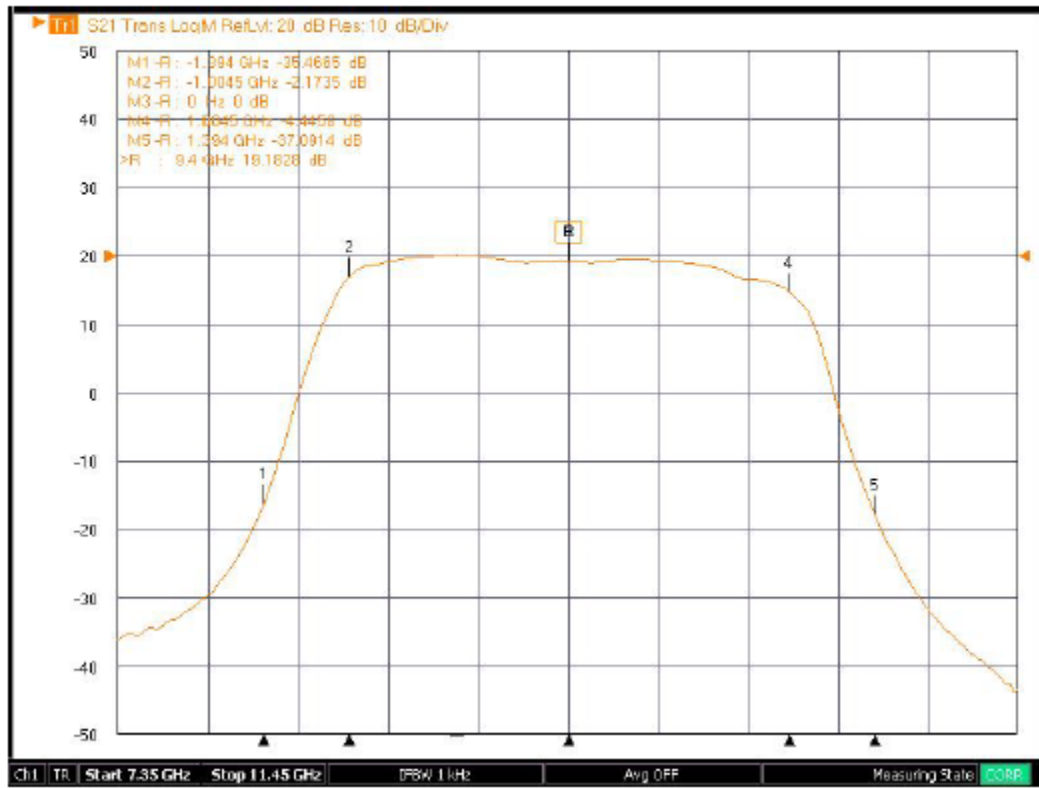
Channel 4 S21 Broadband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

Channel 4 S21 Narrowband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

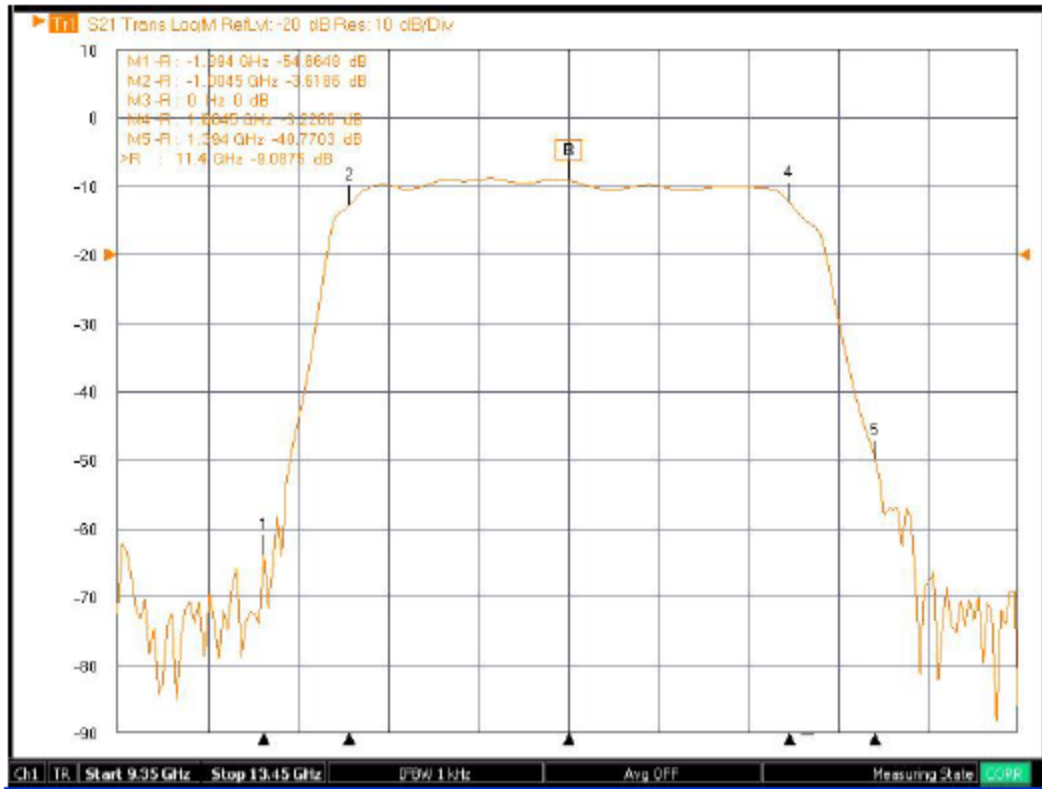
Channel 5 S21 Broadband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

Channel 5 Narrowband





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

Table of current at each filter path

Current Consumption		Serial Number: PL15447/1427		7/17/2014			
5.0VDC		12VDC		-12VDC		3.3VDC	Condition
140mA		163mA		105mA		0mA	Ch 1 BP
141mA		164mA		112		0mA	Ch 1
141mA		163mA		104		0mA	Ch 2 BP
142mA		164mA		111		0mA	Ch 2
141mA		163mA		105		0mA	Ch 3 BP
141mA		164mA		111		0mA	Ch 3
189mA		163mA		35		0mA	Ch 4 BP
189mA		164mA		42		0mA	Ch 4
186mA		163mA		34		0mA	Ch 5 BP
189mA		164mA		42		0mA	Ch 5
187mA		163mA		35		0mA	Thru BP
190mA		164mA		42		0mA	Thru



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

PTRAN-100M18G-70-MAH SUMMARY DATA

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	J3 Input Frequency (from RX filter bank)	100MHz-18.0GHz	100MHz-18.0GHz	PMI QA 2
2	J3 Input Power Level	-62dBm to +8dBm Typical	-62dBm to +8dBm Typ.	
3	J5 Input Frequency (IF input from backplane)	100MHz-4GHz	100MHz-4GHz	
4	J5 Input Power Level	0dBm Typ.	0dBm	
5	J7 Input Frequency (LO1 from backplane)	4GHz-20GHz	4GHz-20GHz	
6	J7 Input Power Level	+15dBm Typ.	+15dBm	
7	J8 Input Frequency (LO2 from backplane)	4GHz-20GHz	4GHz-20GHz	
8	J8 Input Power Level	+15dBm Typ.	+15dBm	
9	J2 Output Frequency (output to TX filter bank)	100MHz-18GHz	100MHz-18GHz	
10	J2 Output Power Level	-20dBm Typical (Using Variable Attenuator)	-20dBm Typ.	
11	J4 Output Frequency (IF output to backplane)	100MHz-4GHz	100MHz-4GHz	
12	J4 Output Power Level	0dBm Typ. For Limited SDLVA channels	0dBm Typ.	
13	J6 Output Frequency (output to RX filter bank)	100MHz-18GHz	100MHz-18GHz	
14	J6 Output Power Level	-20dBm Typical (Using Variable Attenuator)	-20dBm Typ.	PMI QA 2

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
15	Power Supplies	+12V, -12V, +5V, +3.3V	802 mA@+12V 512 mA@-12V 528 mA@+5V 35 mA@+3.3V	PMI QA 2

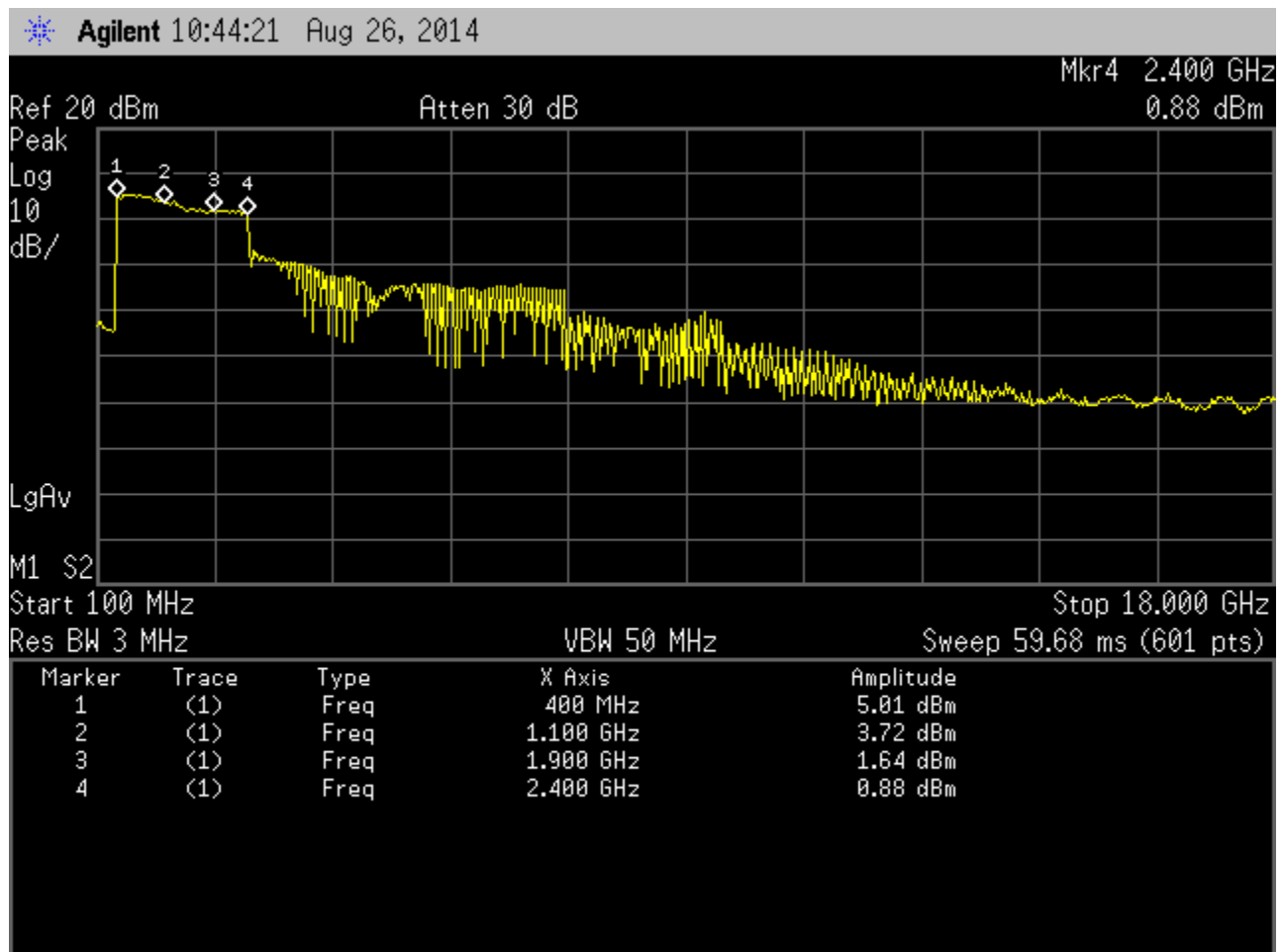
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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

PTRAN-100M18G-SFB-3UVPX-MAH RECEIVE PLOTS

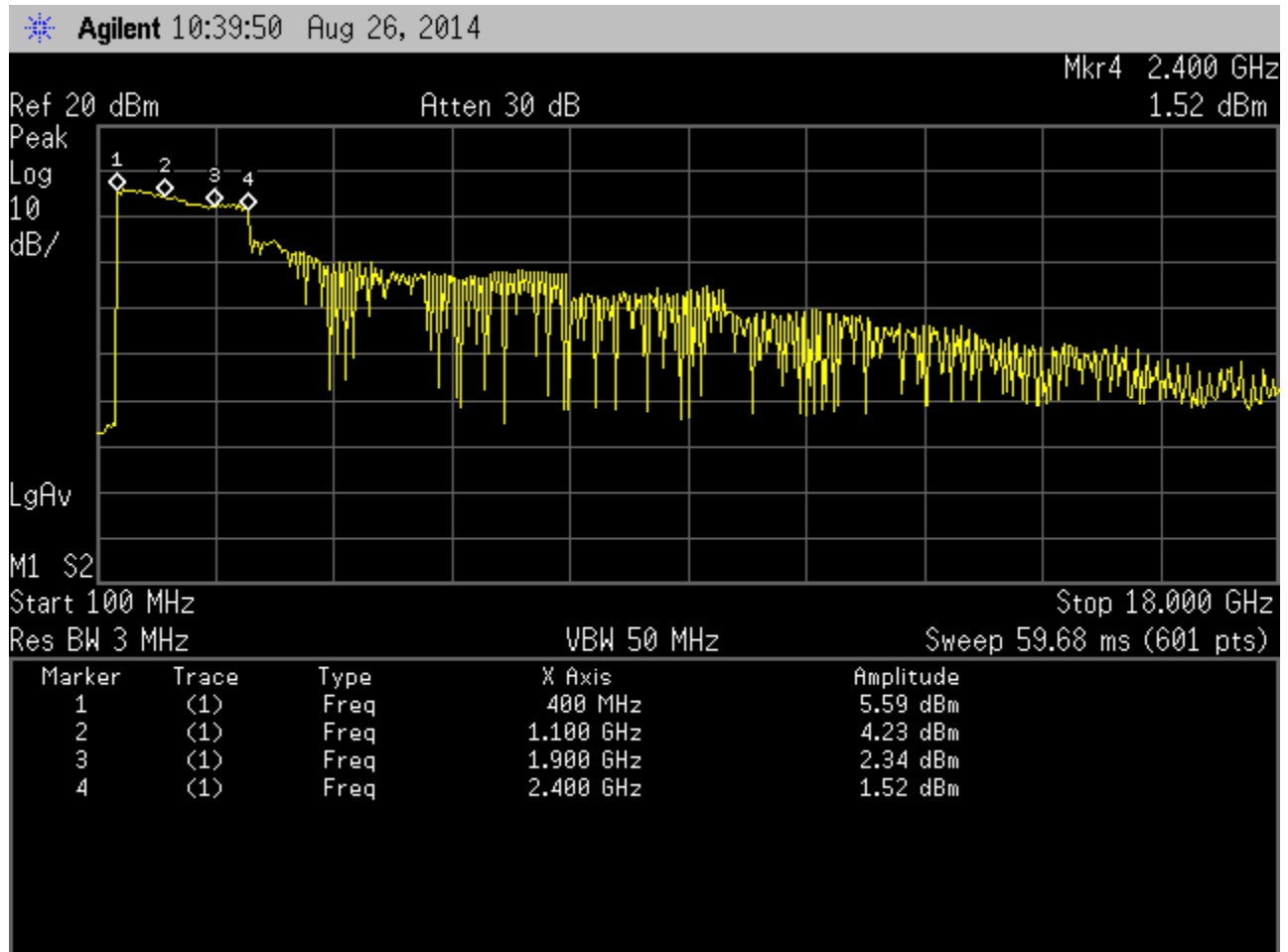
Low Frequency Receive Thru Channel
-60 dBm Input to Limited Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

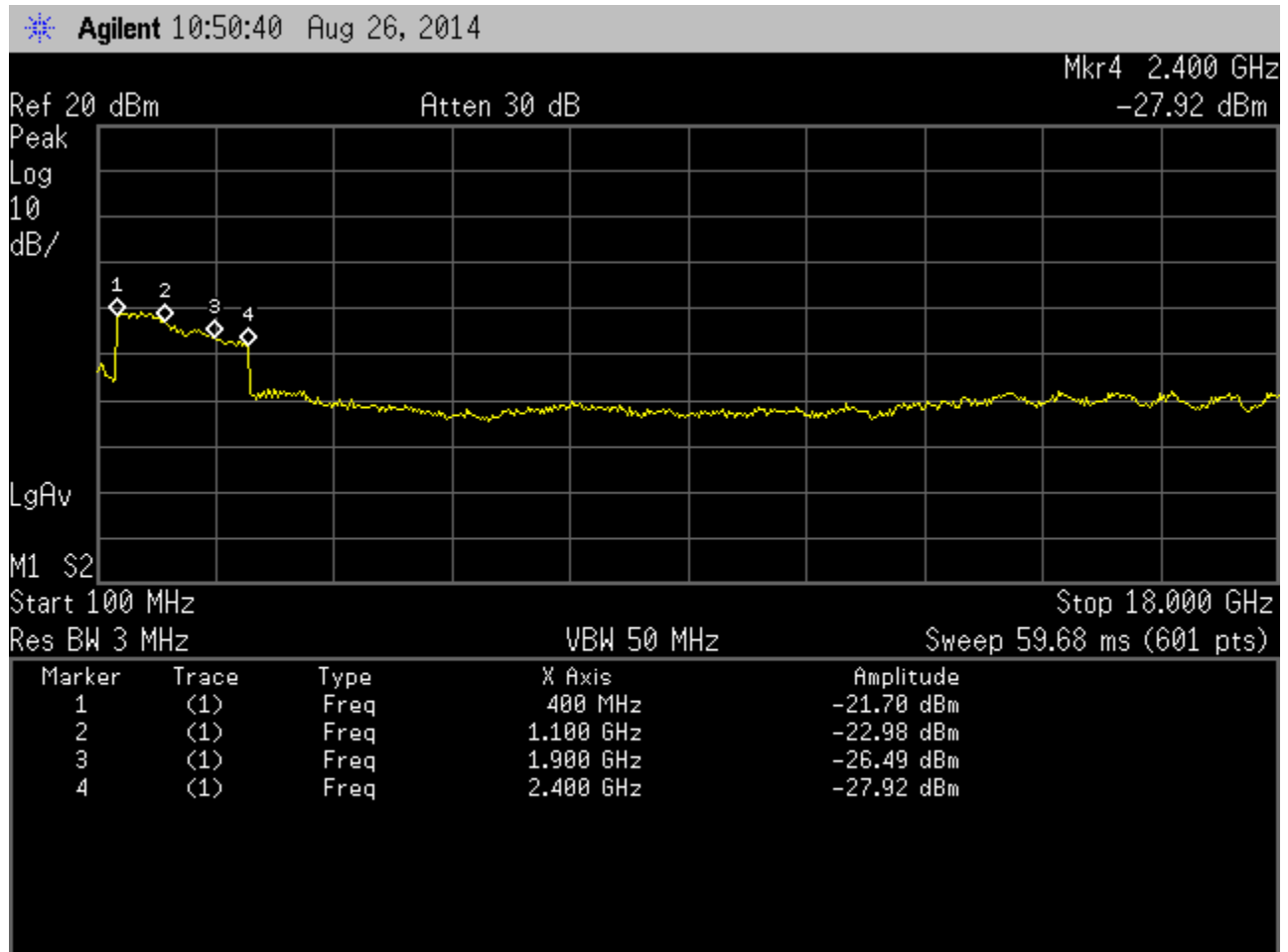
Low Frequency Receive Thru Channel -10 dBm Input to Limited Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

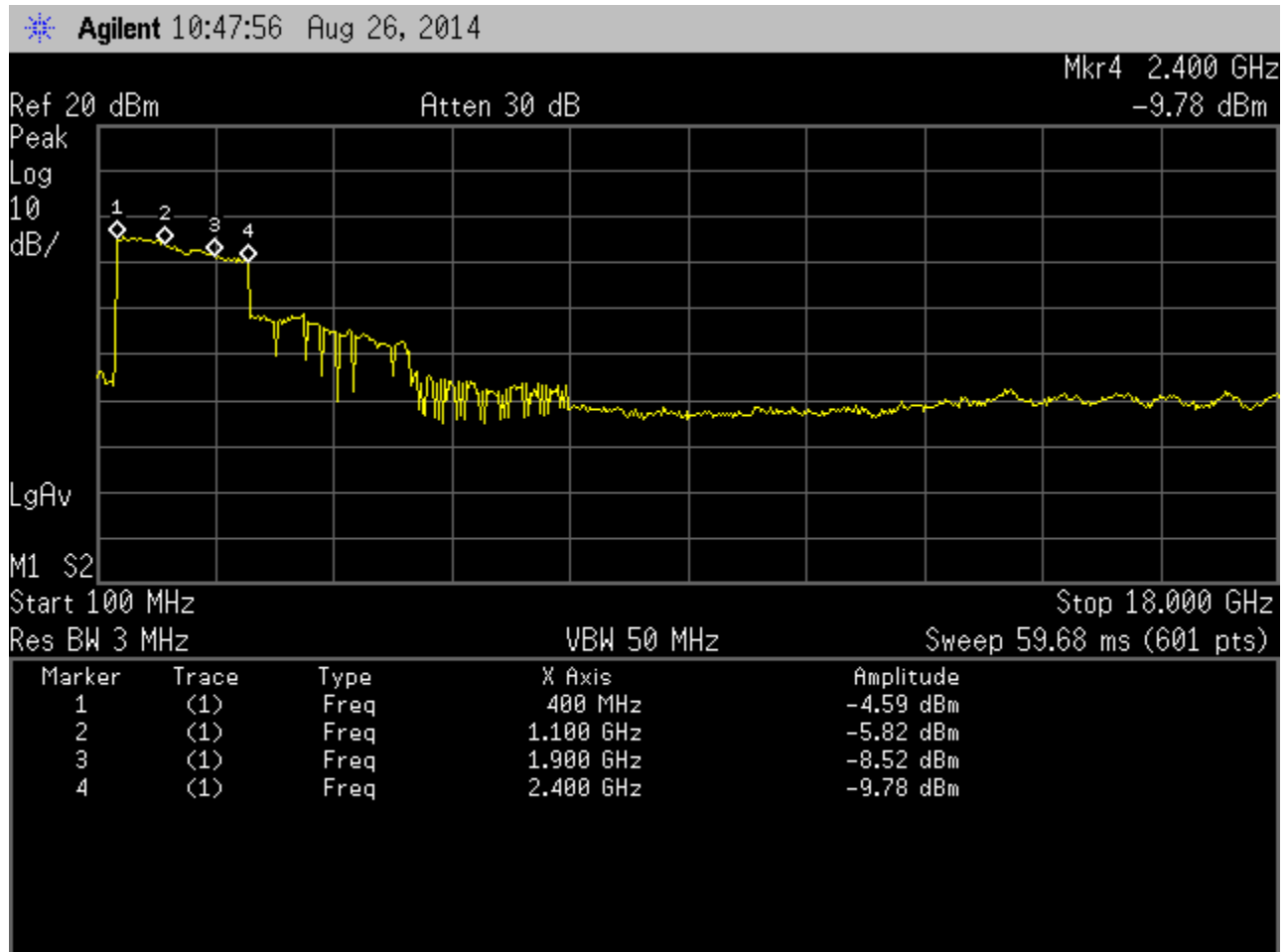
Low Frequency Receive Thru Channel -80 dBm Input to Linear Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

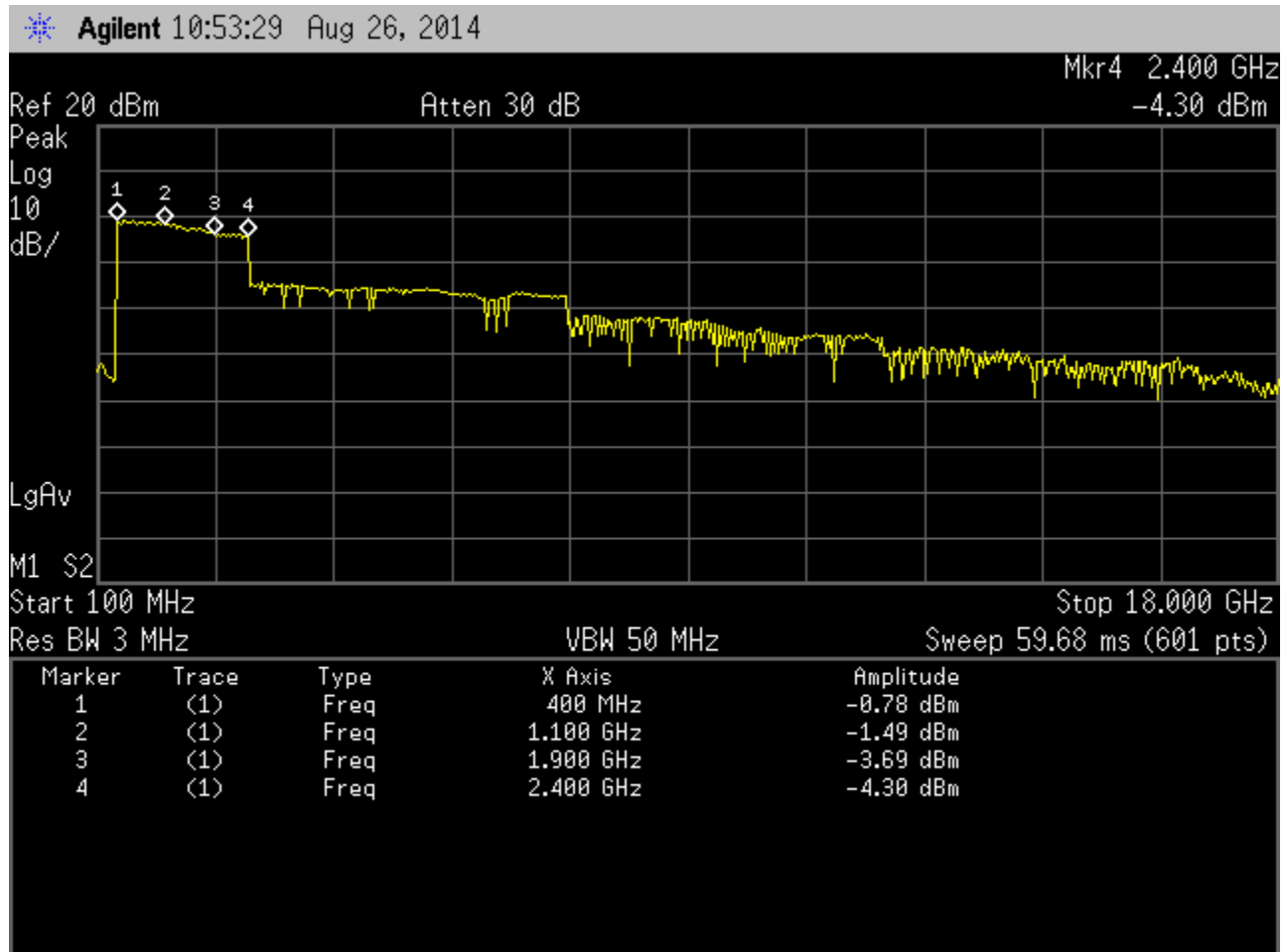
Low Frequency Receive Thru Channel -60 dBm Input to Linear Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

Low Frequency Receive Thru Channel -10 dBm Input to Linear Output

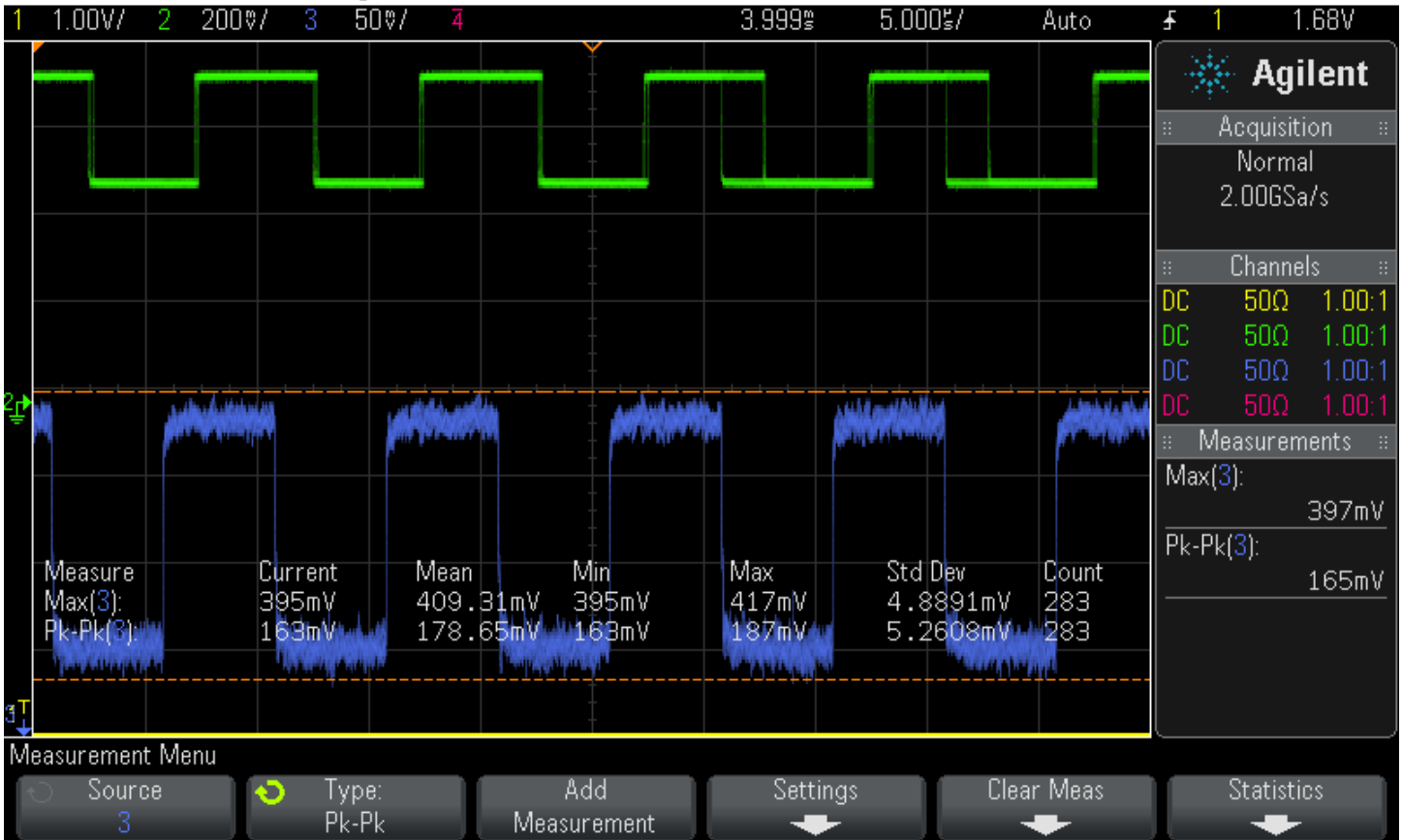




TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

Low Frequency Receive Thru Channel -45 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Wed Aug 27 00:08:12 2014



Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

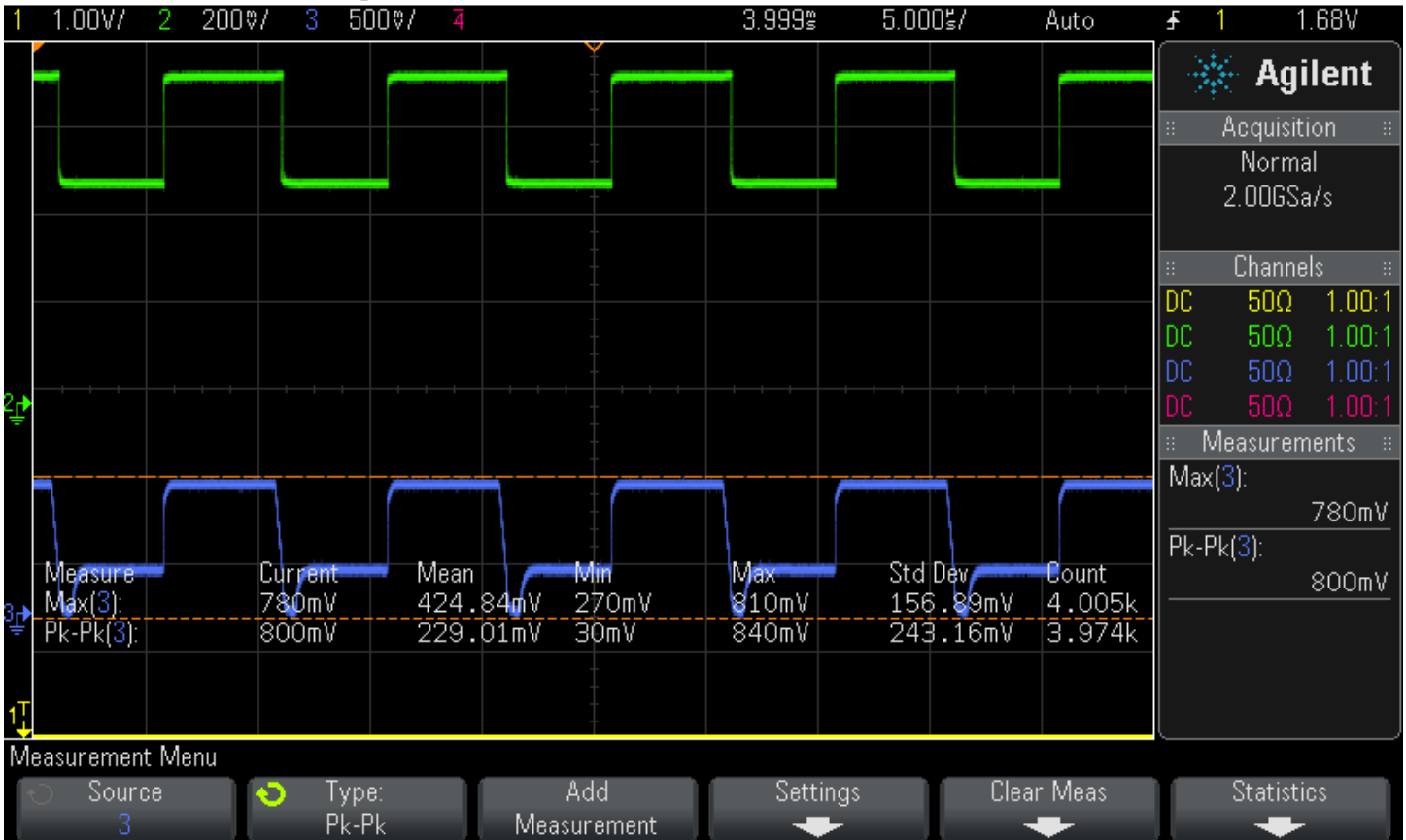
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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

Low Frequency Receive Thru Channel -10 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Wed Aug 27 00:10:18 2014



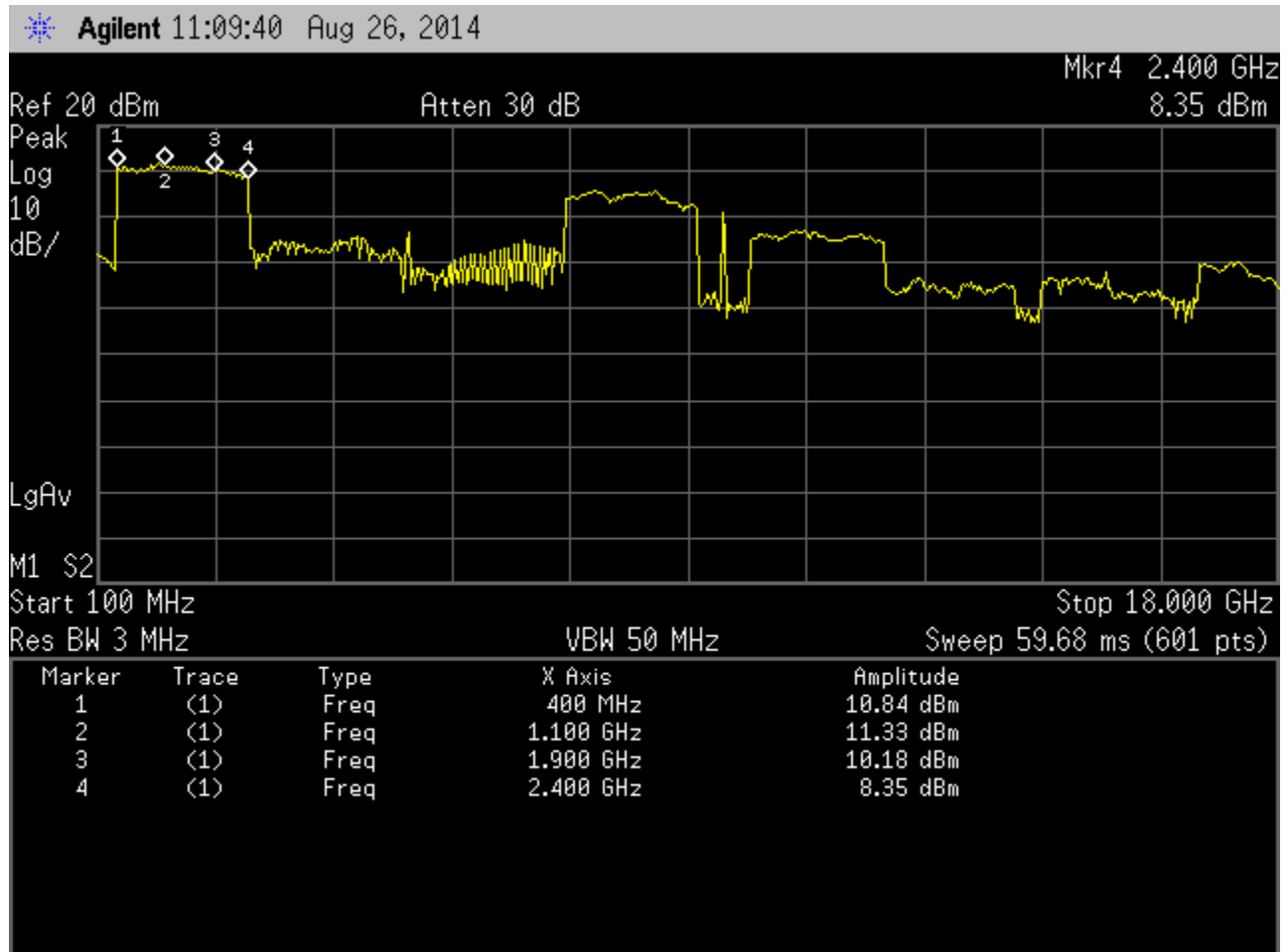
Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

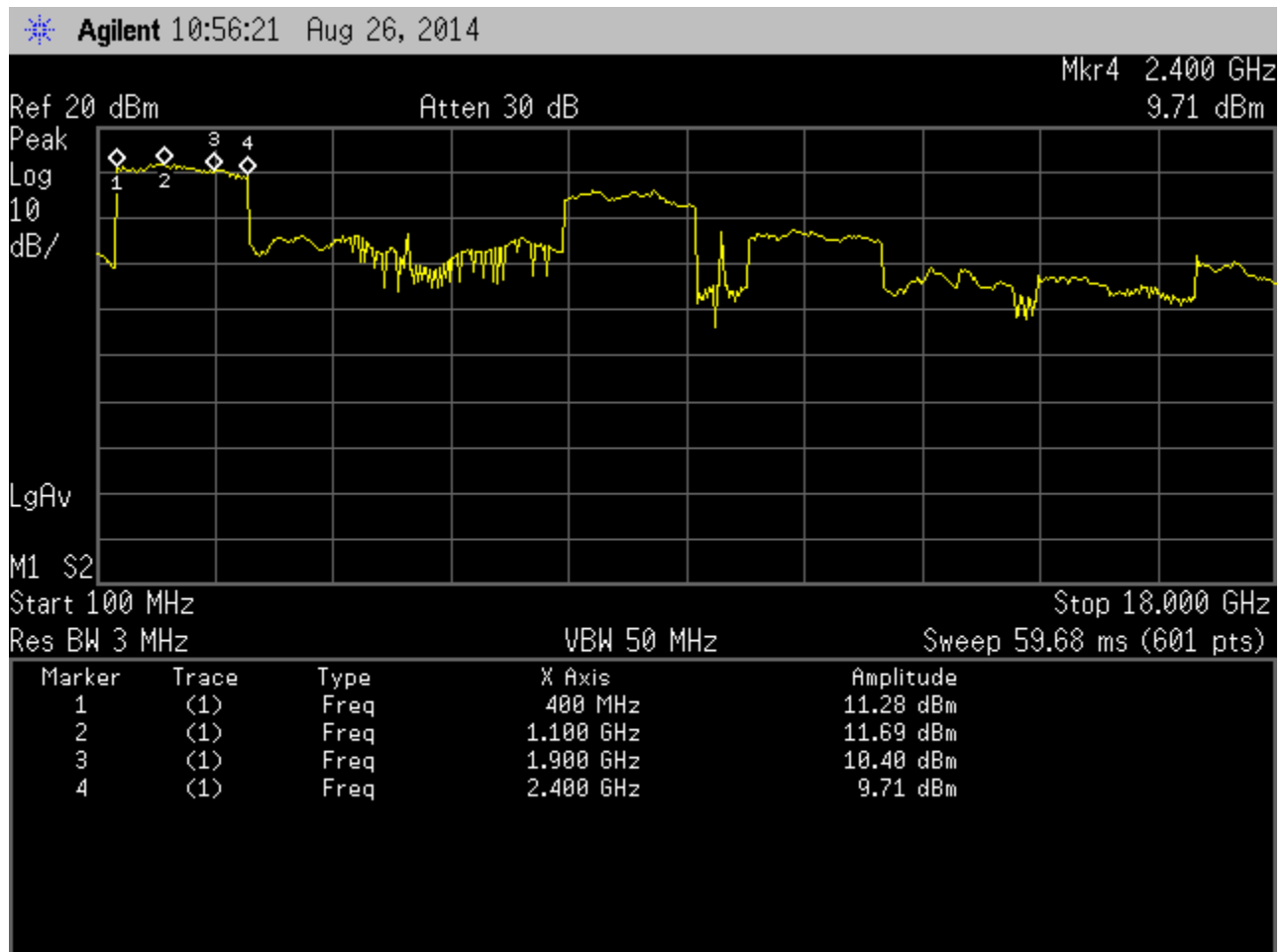
High Frequency Receive Channel 1 -60 dBm Input to Limited Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 1 -10 dBm Input to Limited Output

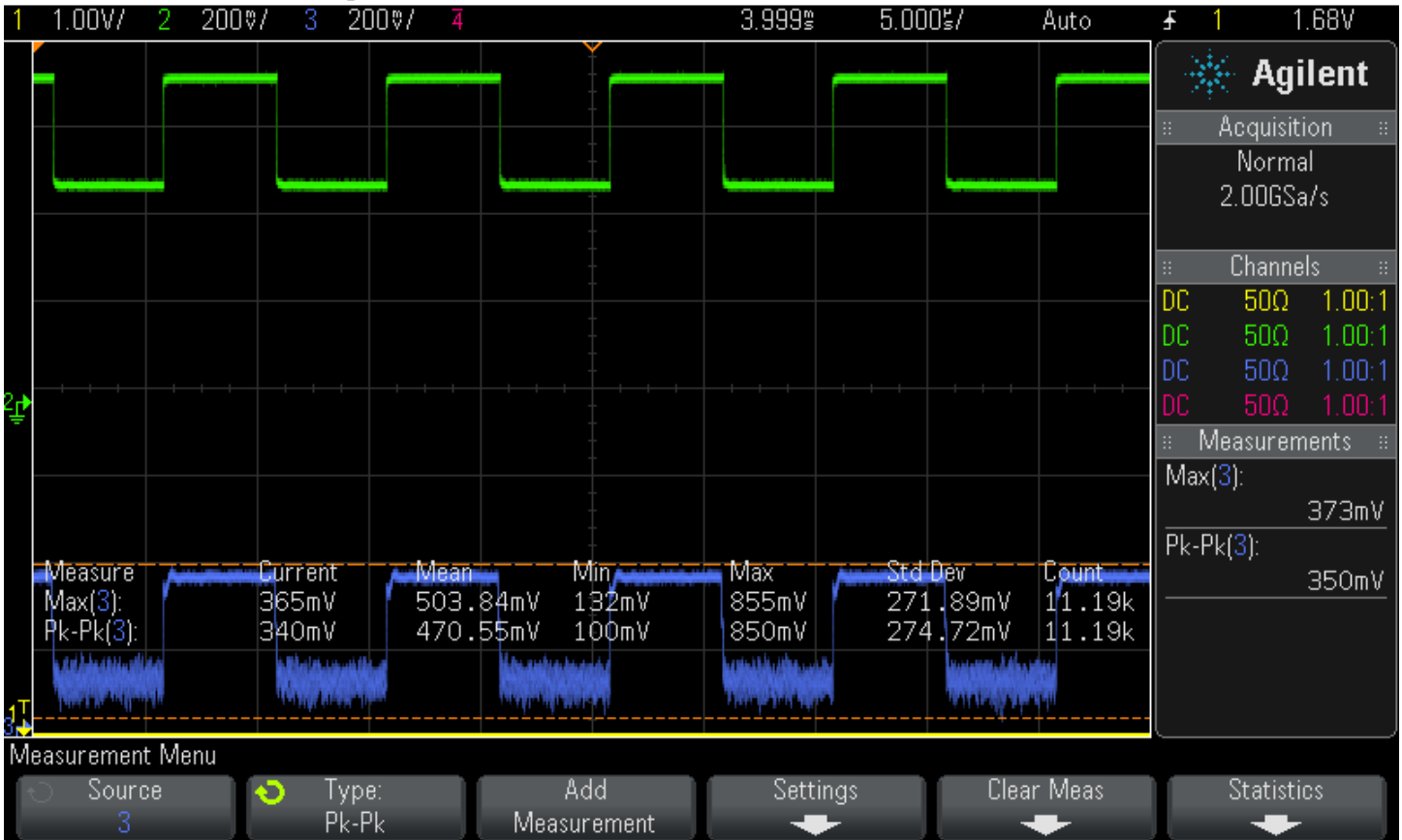




TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 1 -60 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:30:46 2014



Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

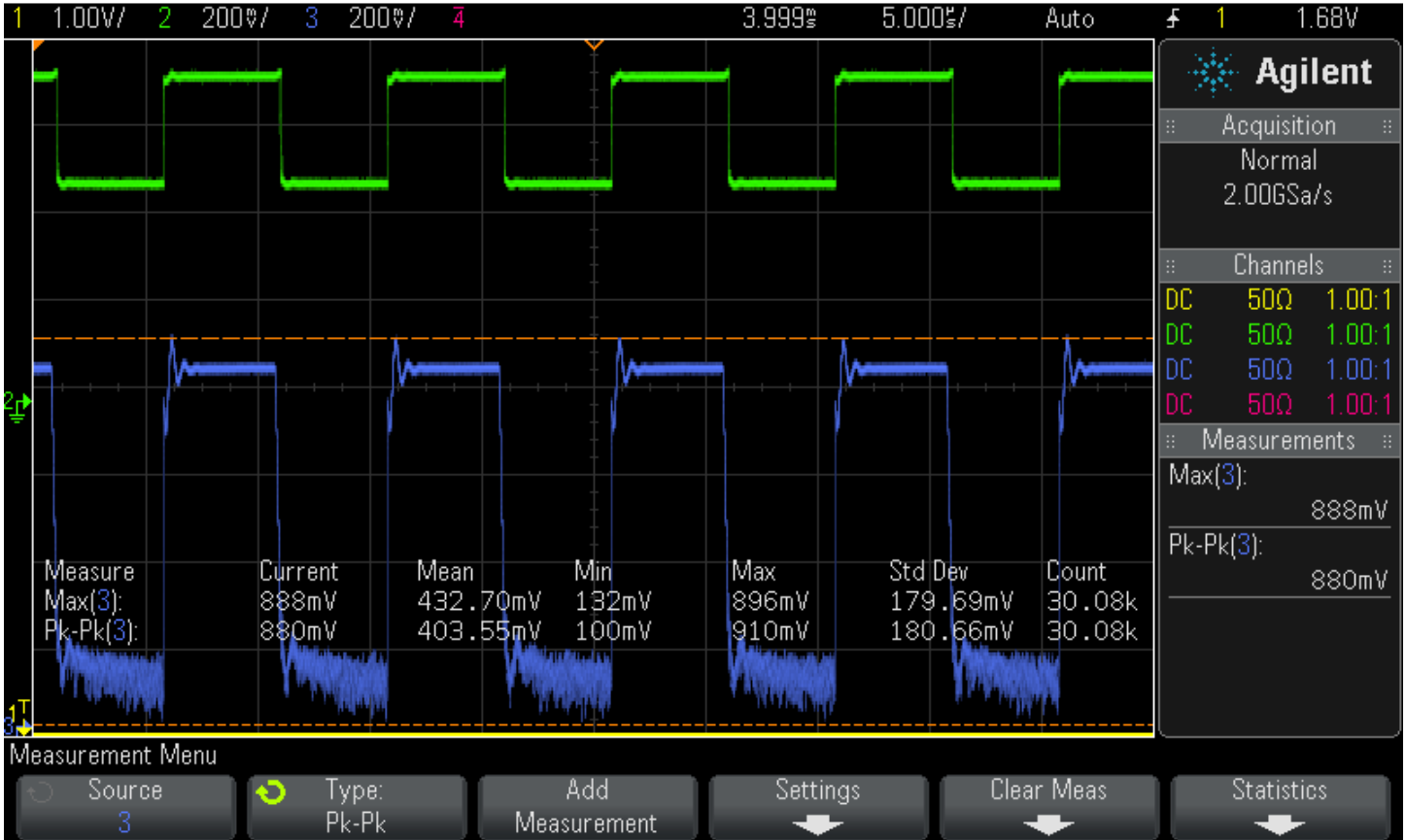
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Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 1 -10 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:37:37 2014



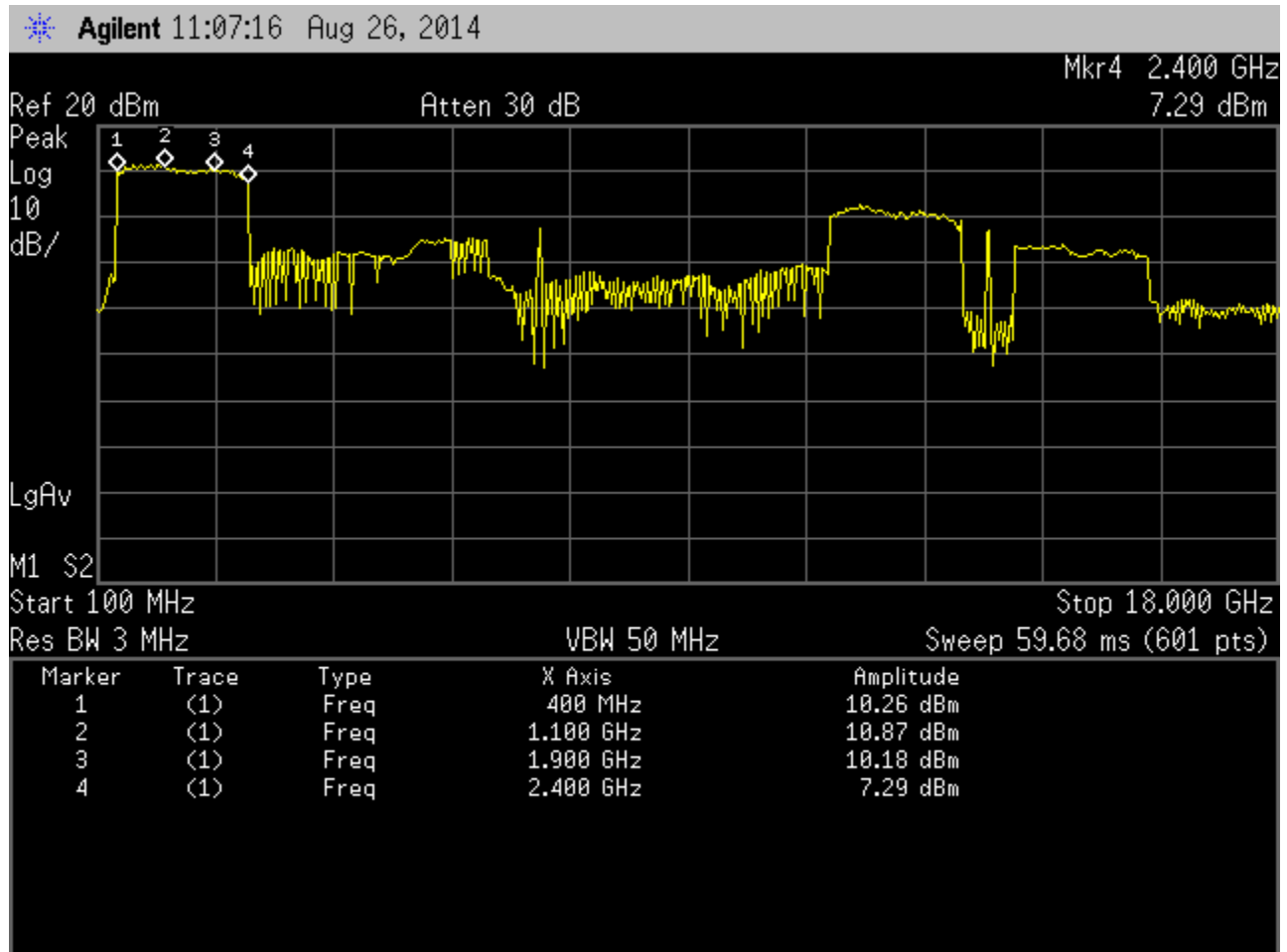
Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

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TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

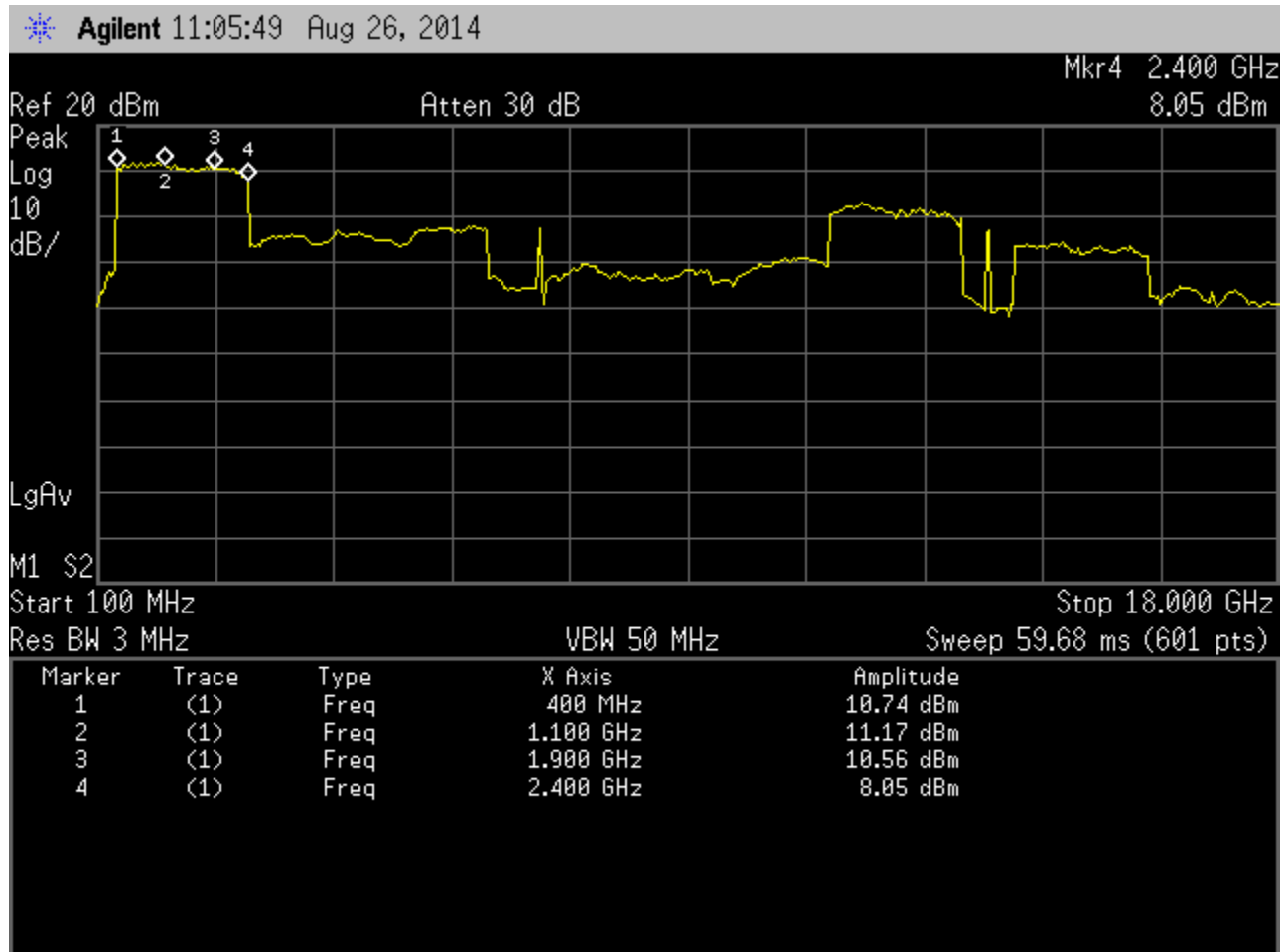
High Frequency Receive Channel 2 -60 dBm Input to Limited Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 2 -10 dBm Input to Limited Output

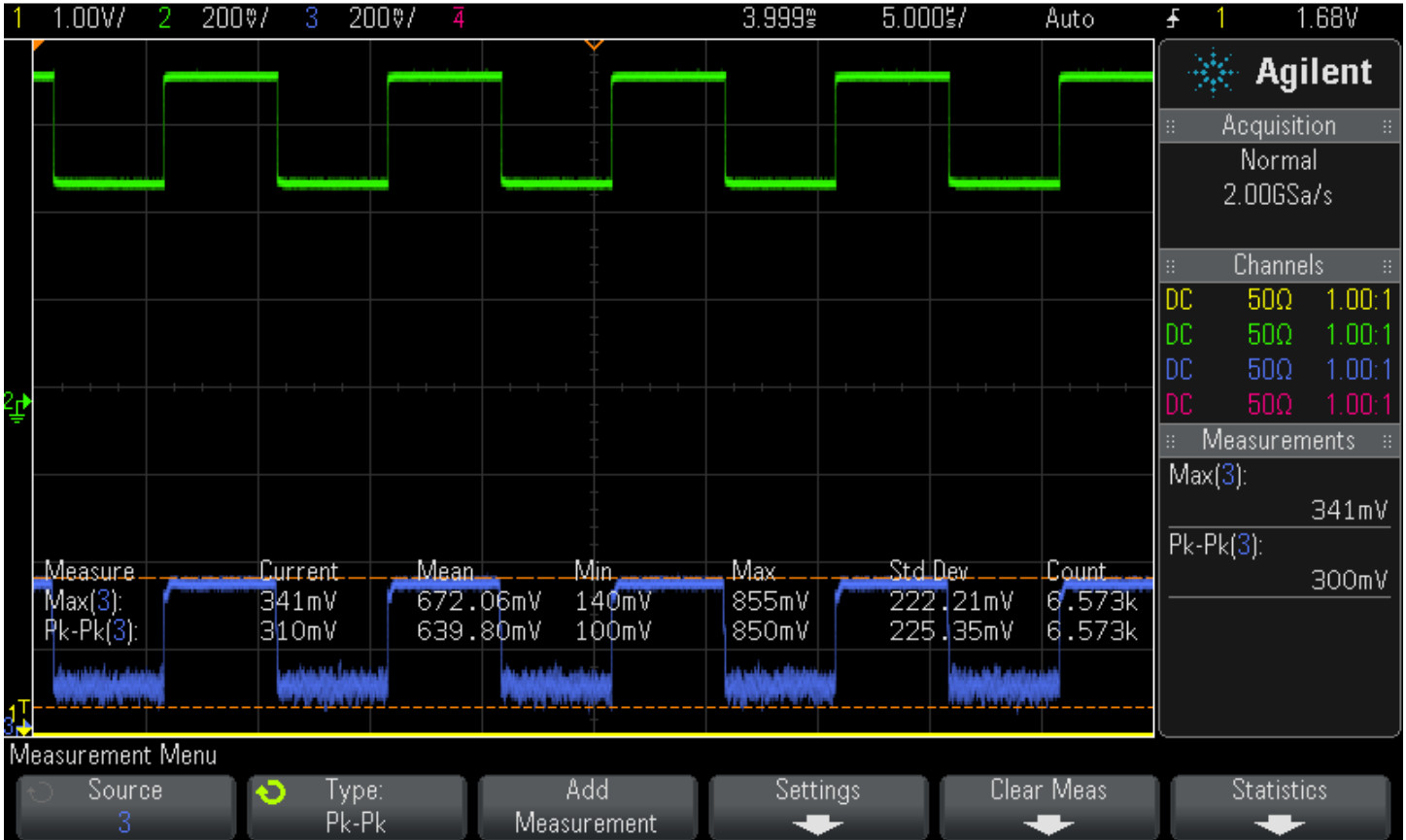




TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 2 -60 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:29:04 2014



Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

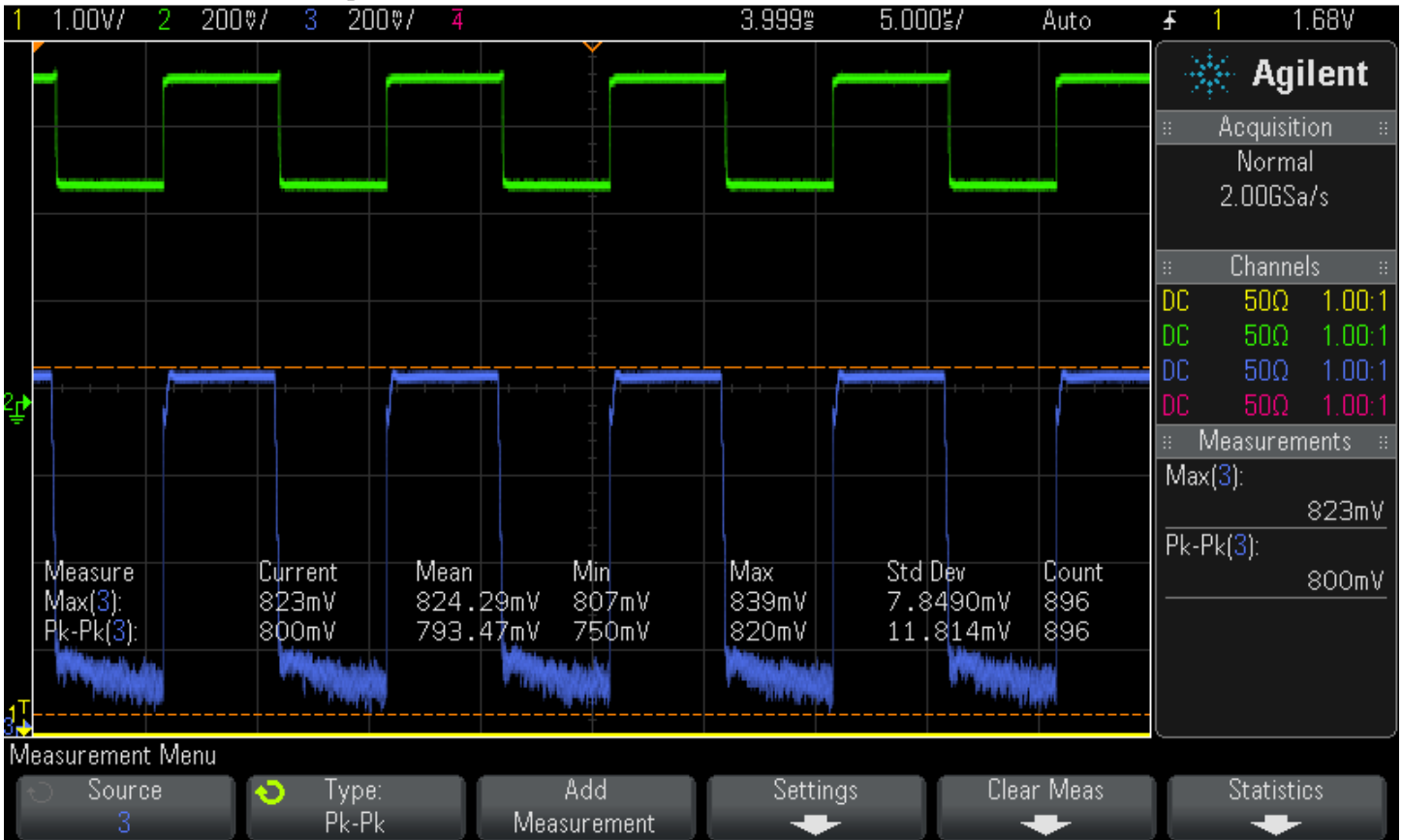
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 2 -10 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:26:57 2014



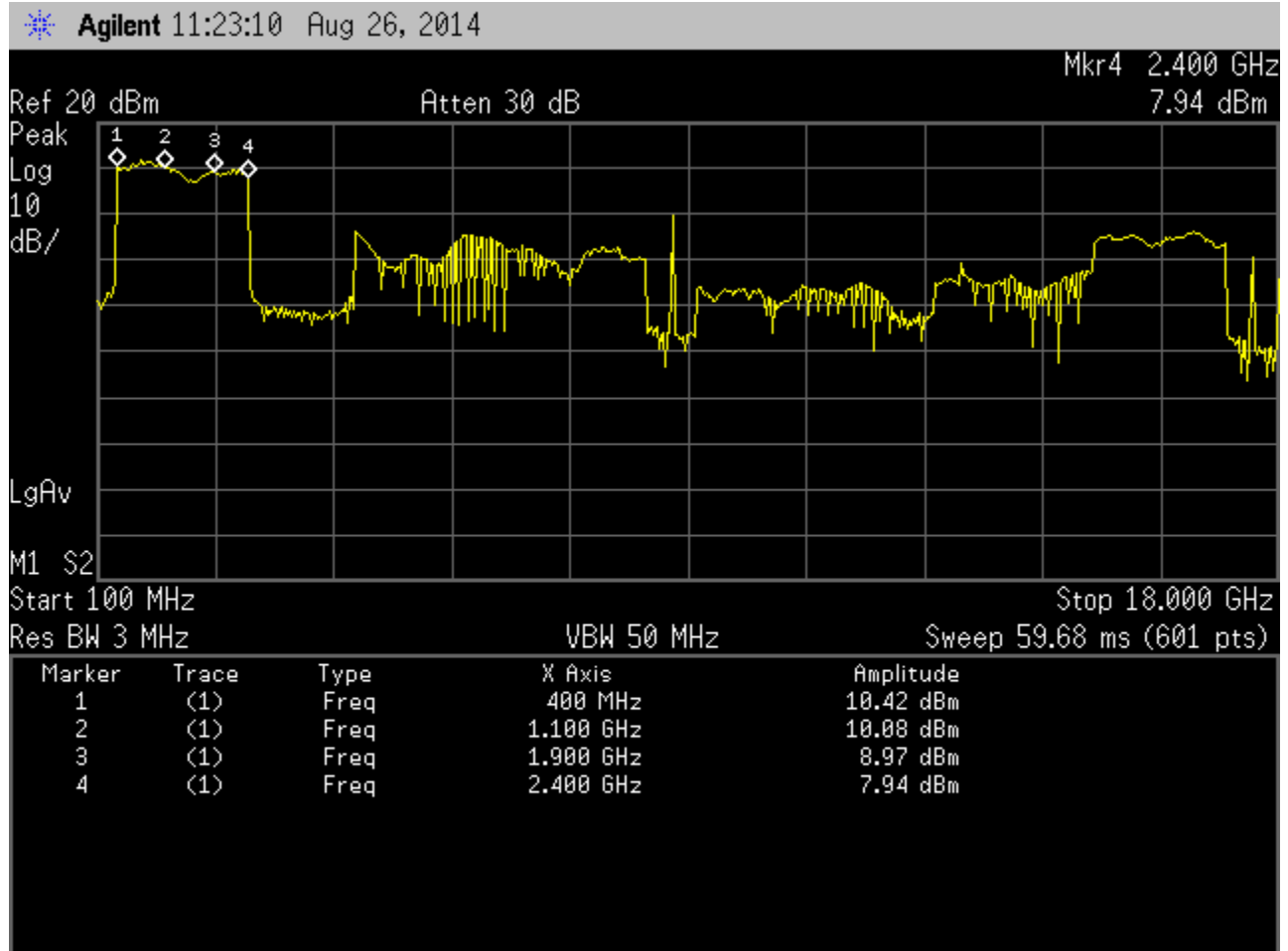
Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

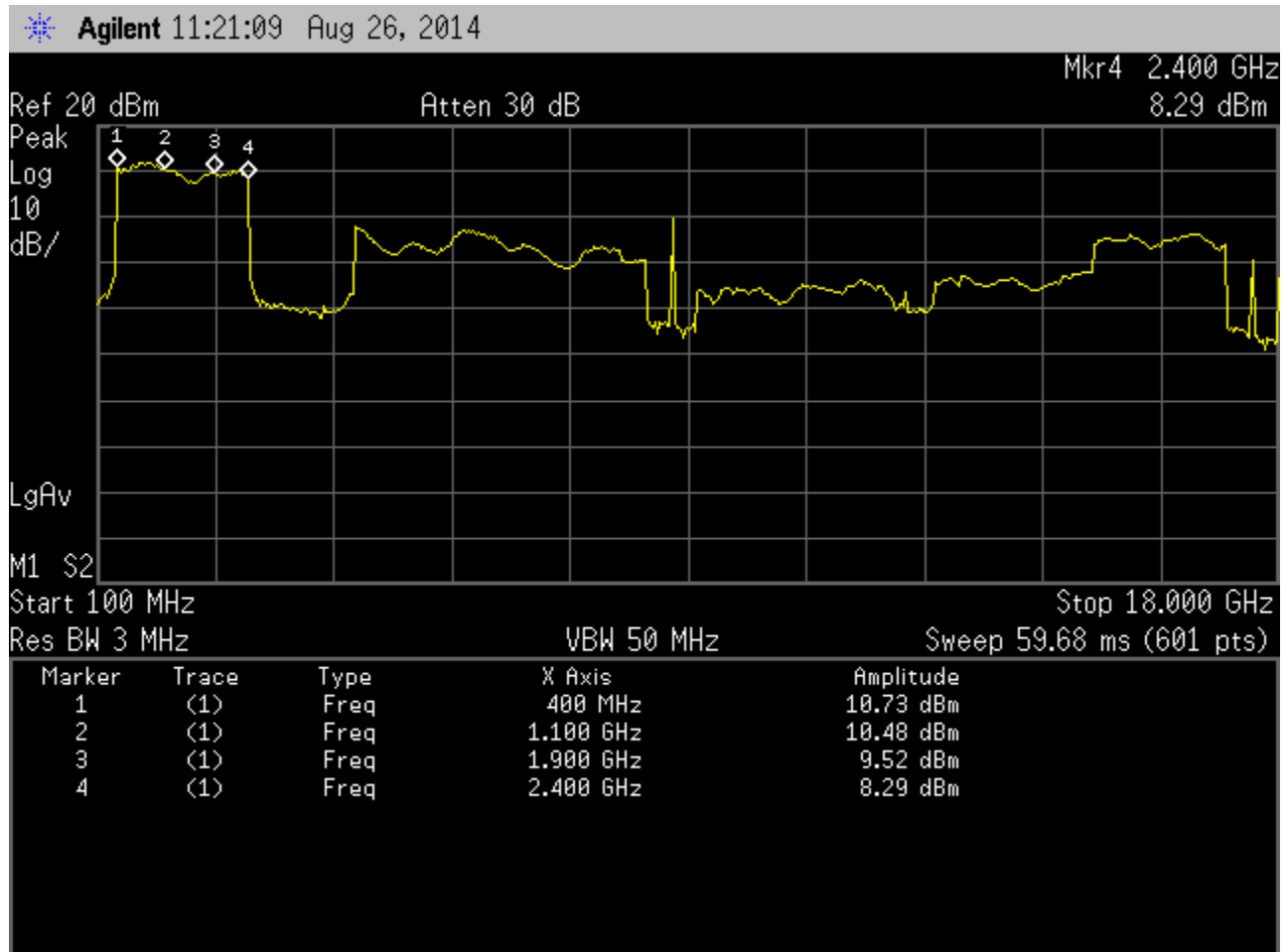
High Frequency Receive Channel 3 -60 dBm Input to Limited Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 3 -10 dBm Input to Limited Output

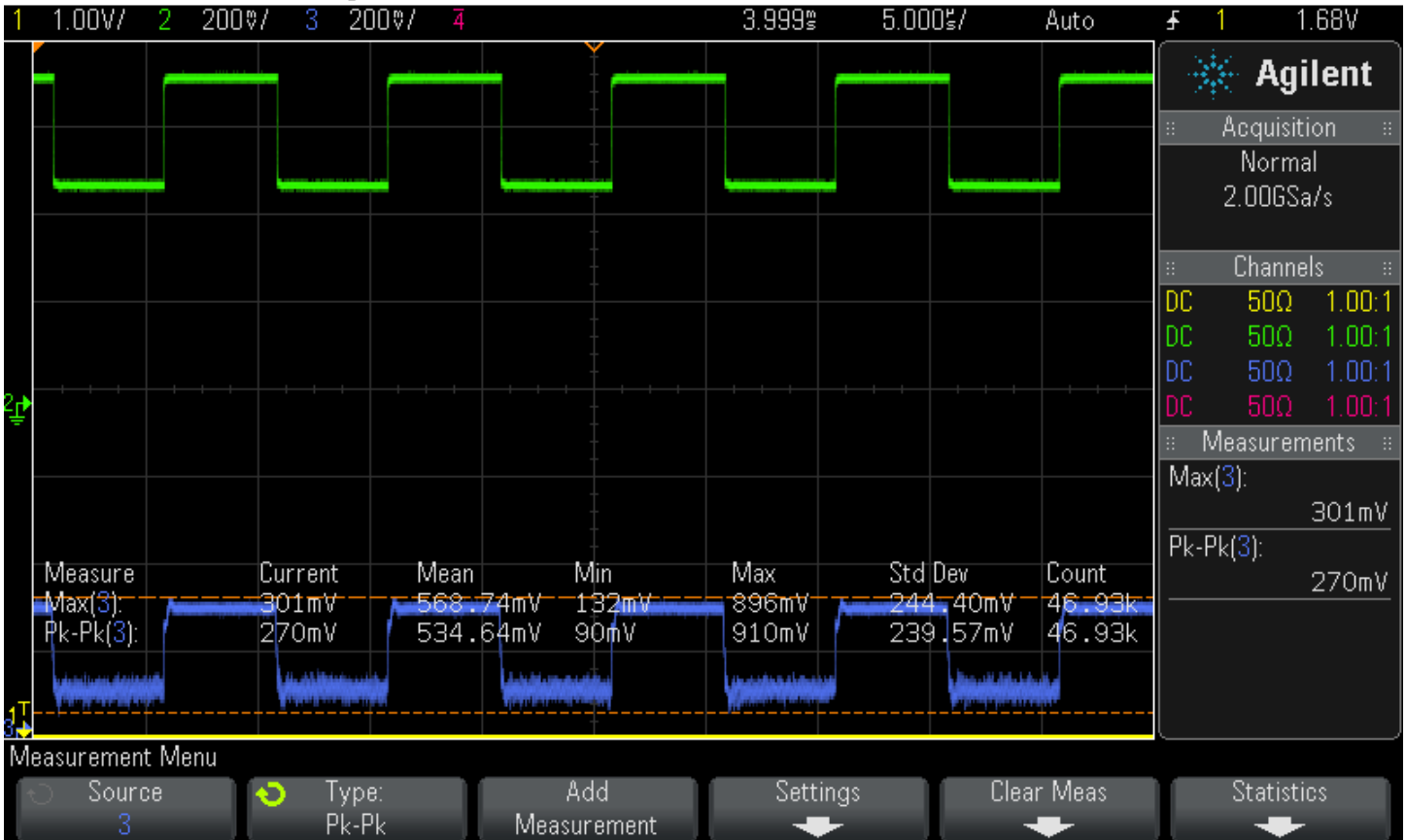




TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 3 -60 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:43:47 2014



Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

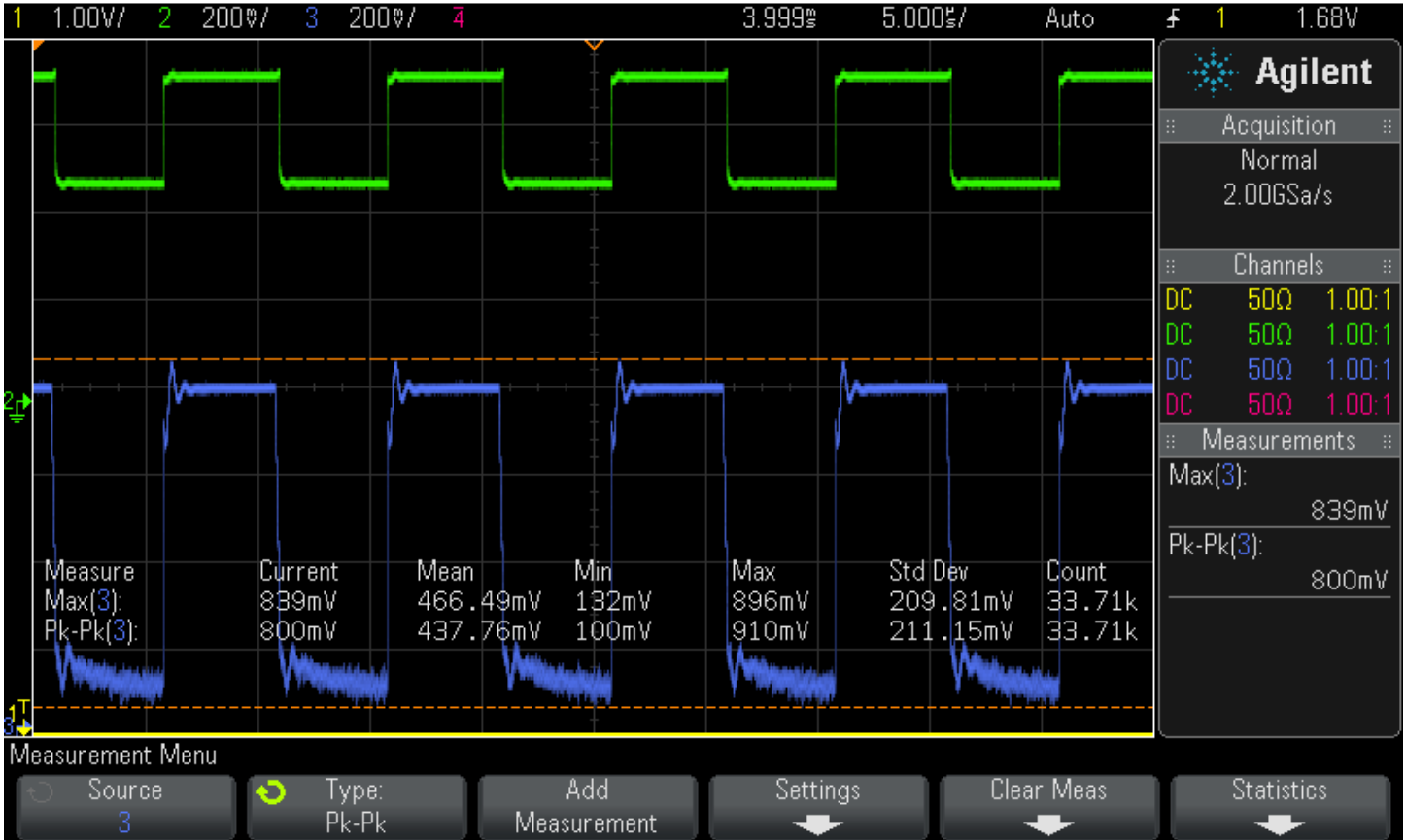
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 3 -10 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:38:57 2014



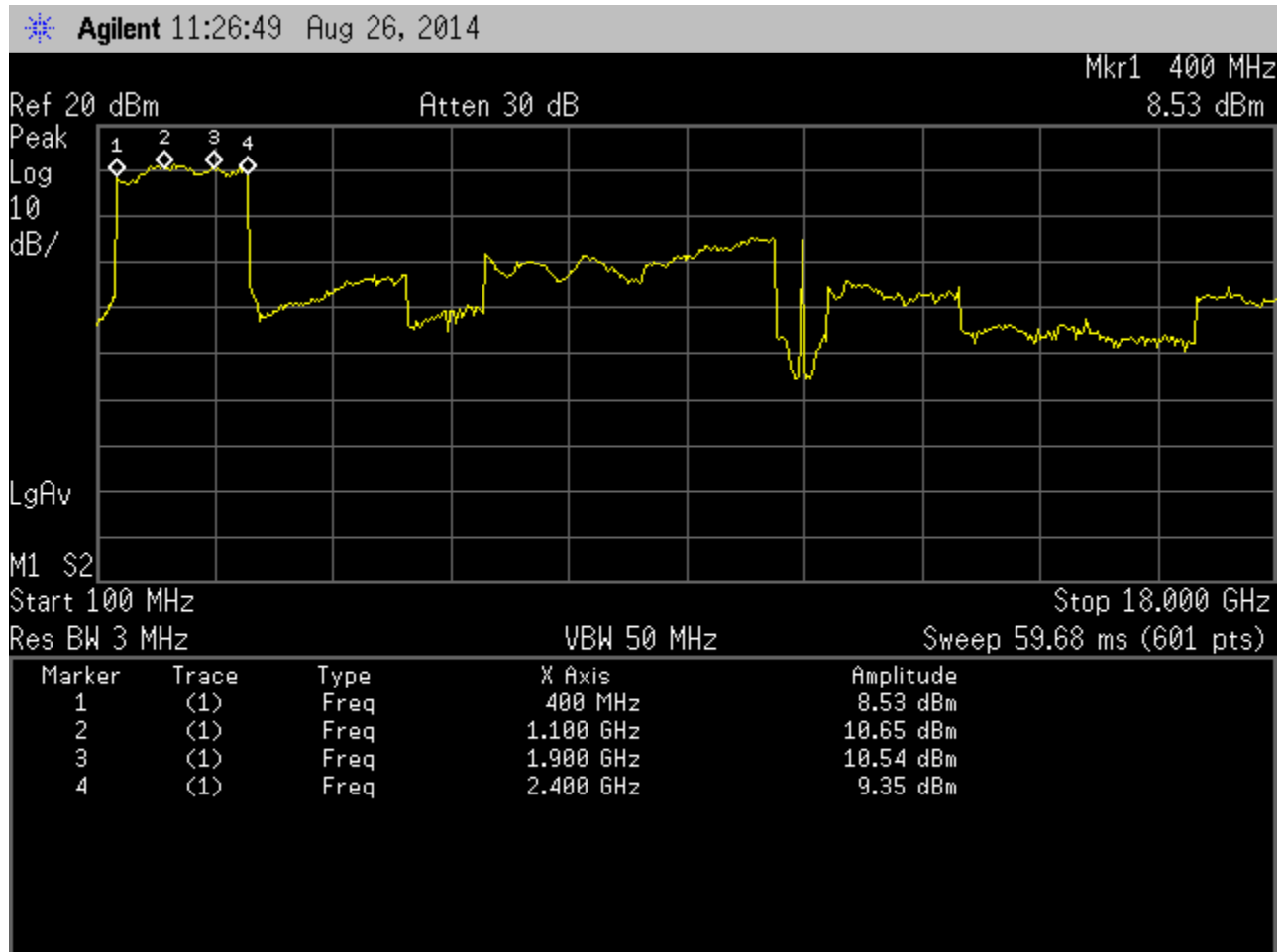
Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

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Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

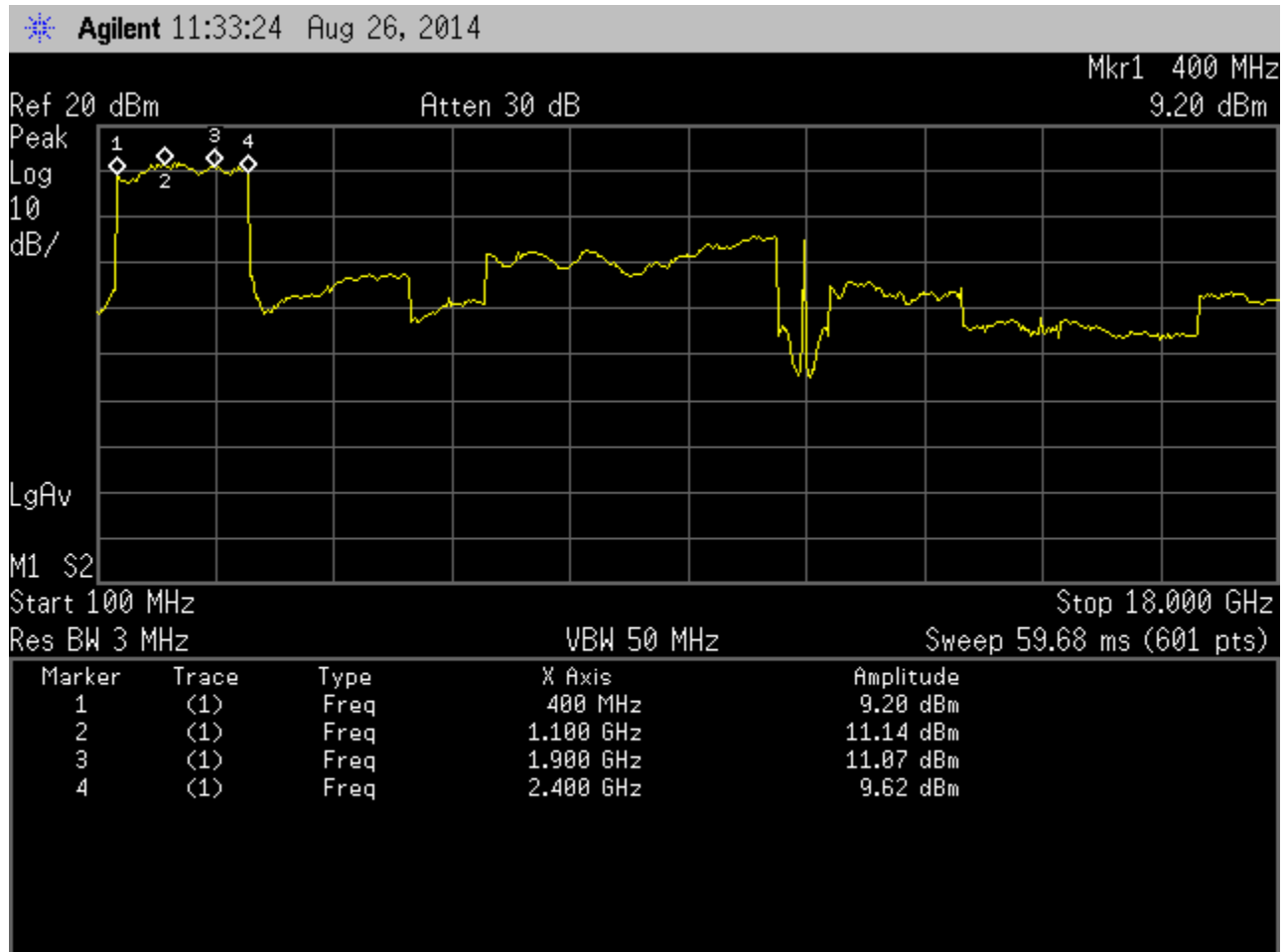
High Frequency Receive Channel 4 -60 dBm Input to Limited Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 4 -10 dBm Input to Limited Output

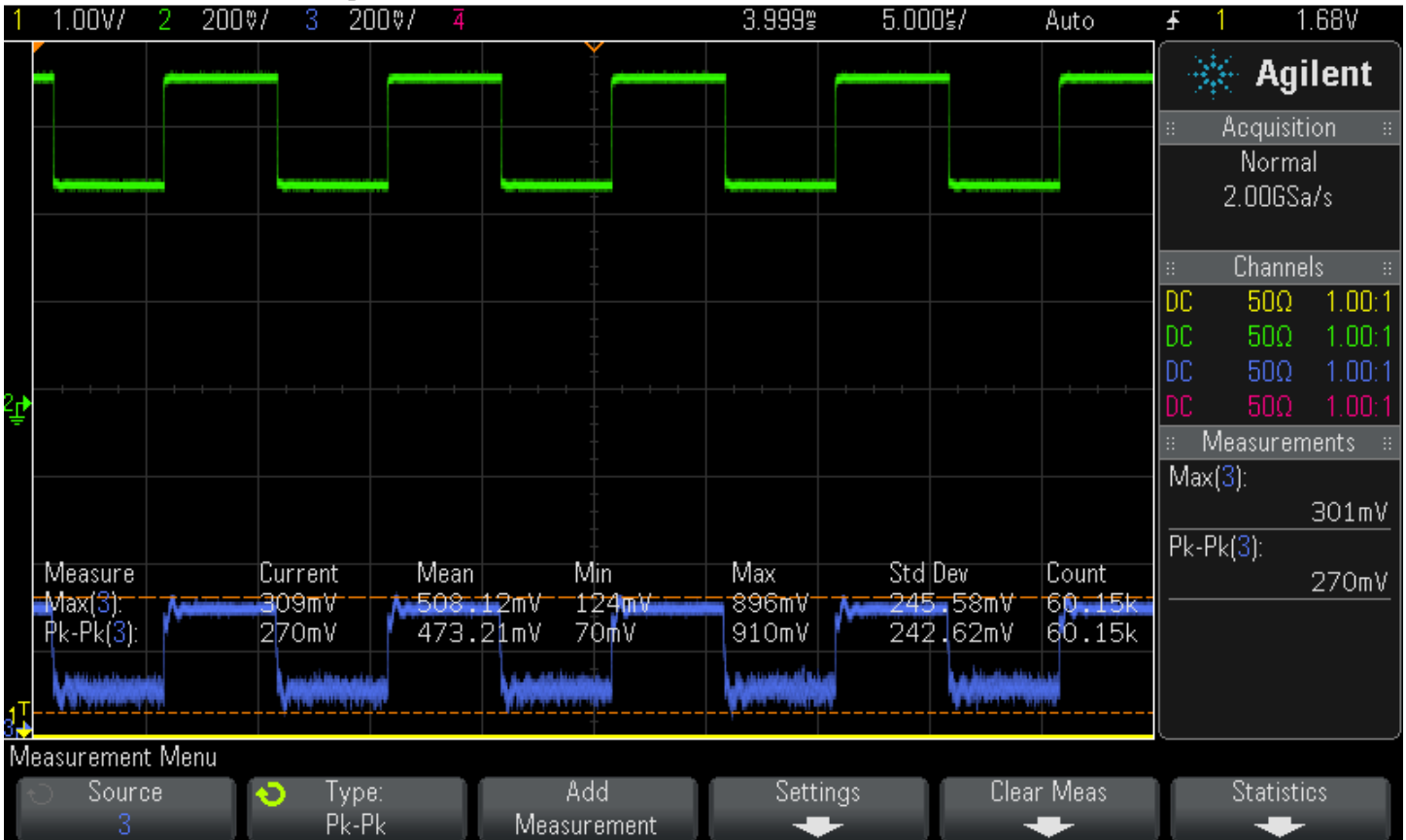




TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 4 -60 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:48:35 2014



Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

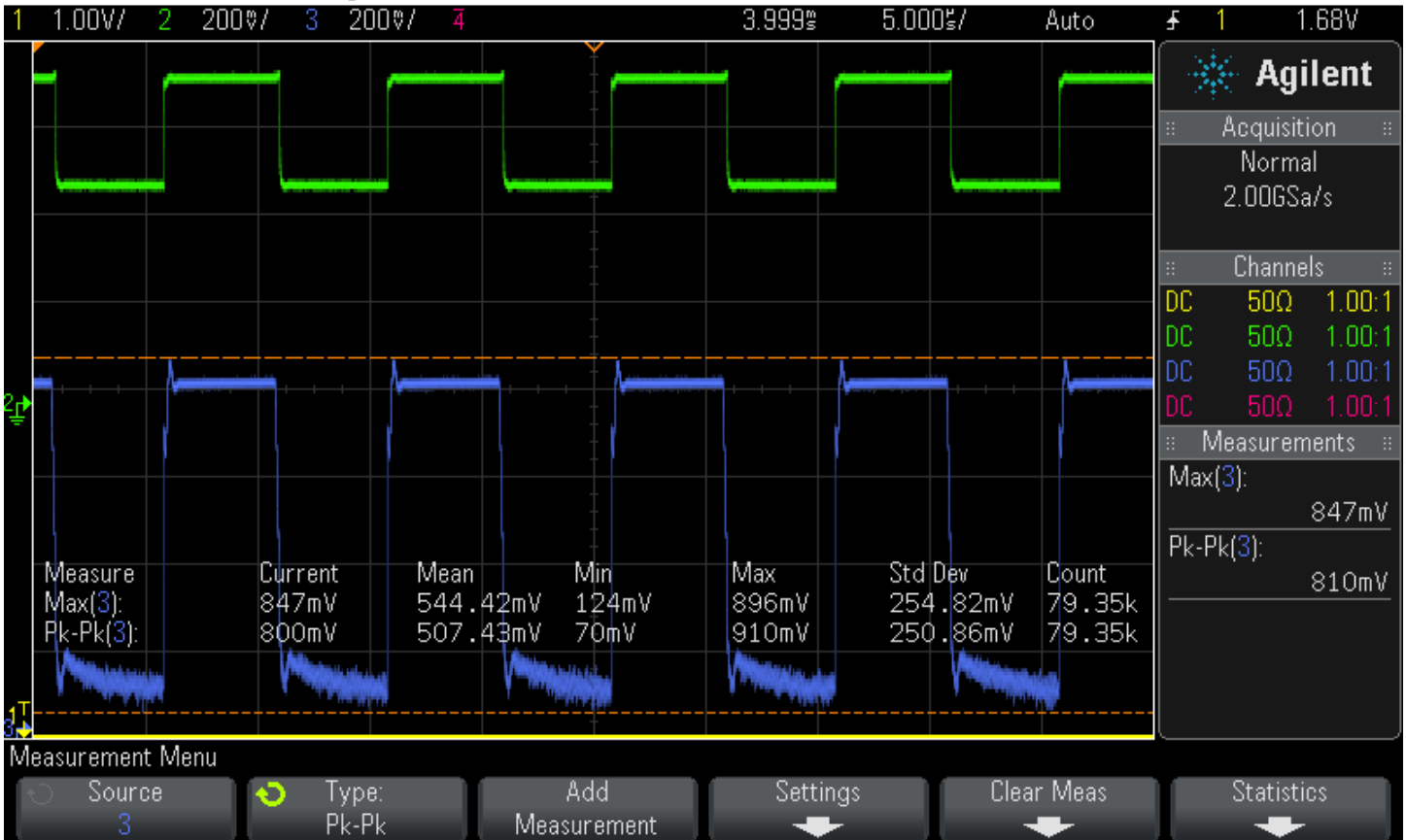
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 4 -10 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:55:31 2014



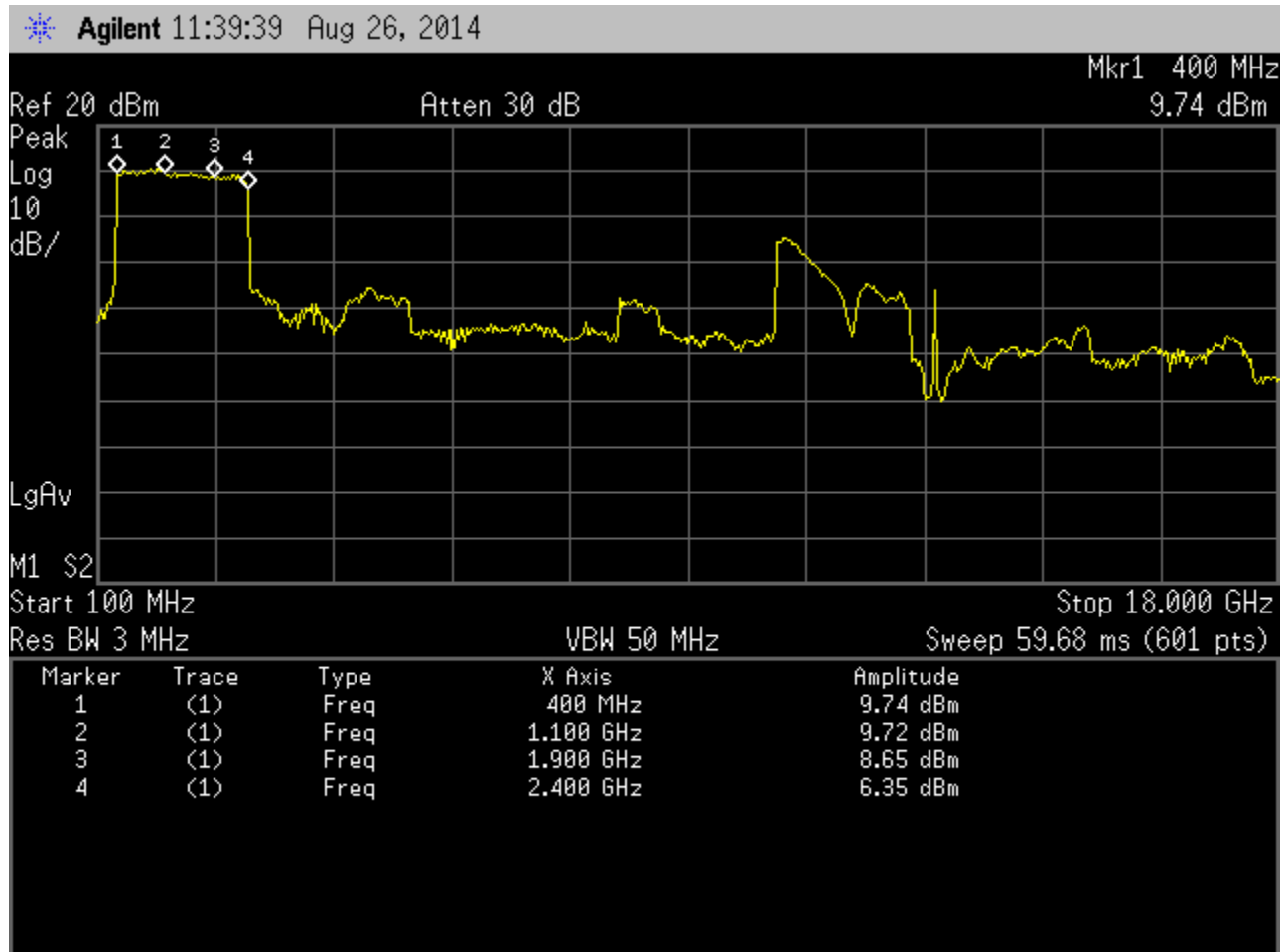
Green Trace: Comparator LVDS+ Output
 Blue Trace: Proportional Video Output

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 Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

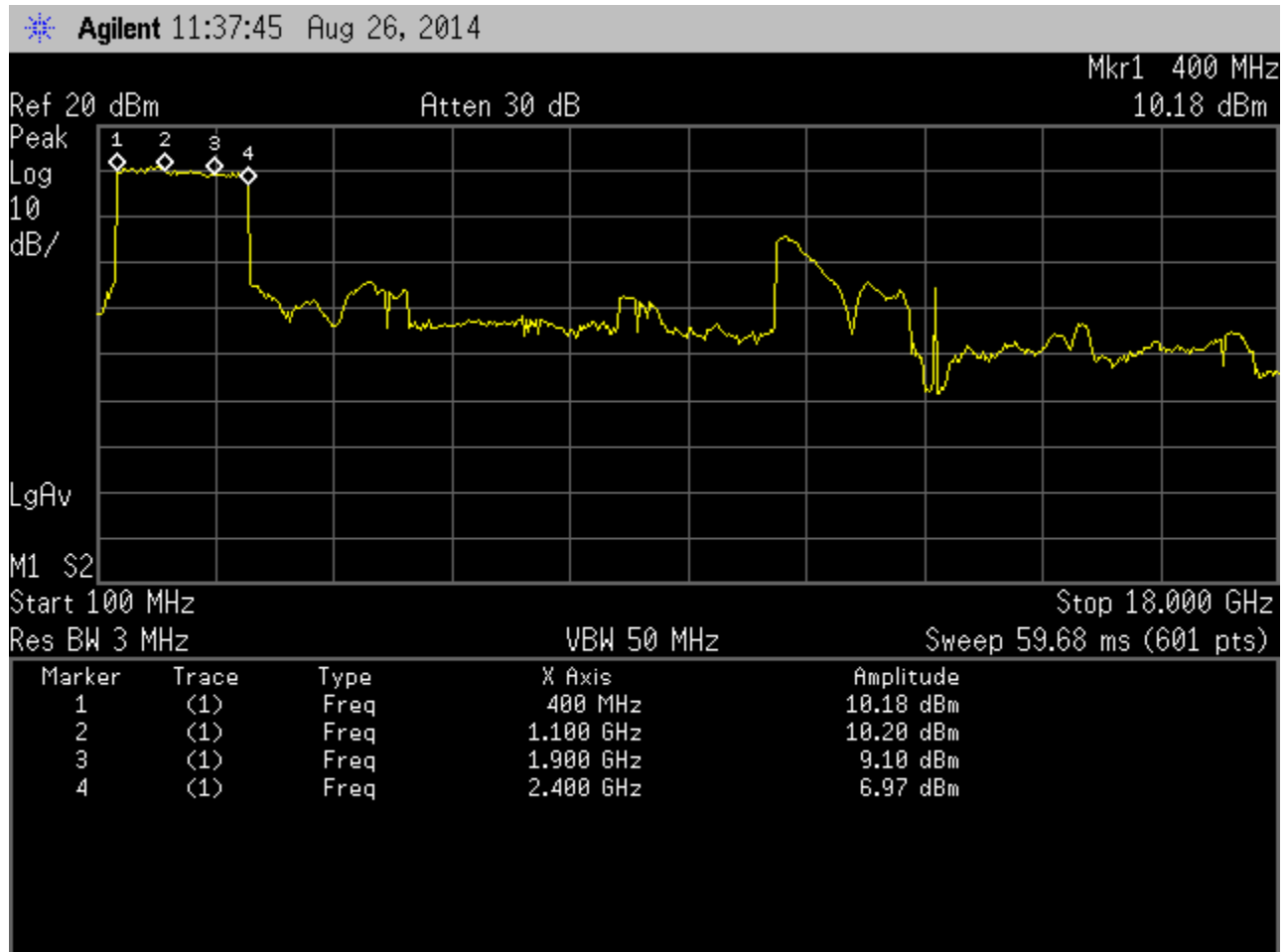
High Frequency Receive Channel 5 -60 dBm Input to Limited Output





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 5 -10 dBm Input to Limited Output

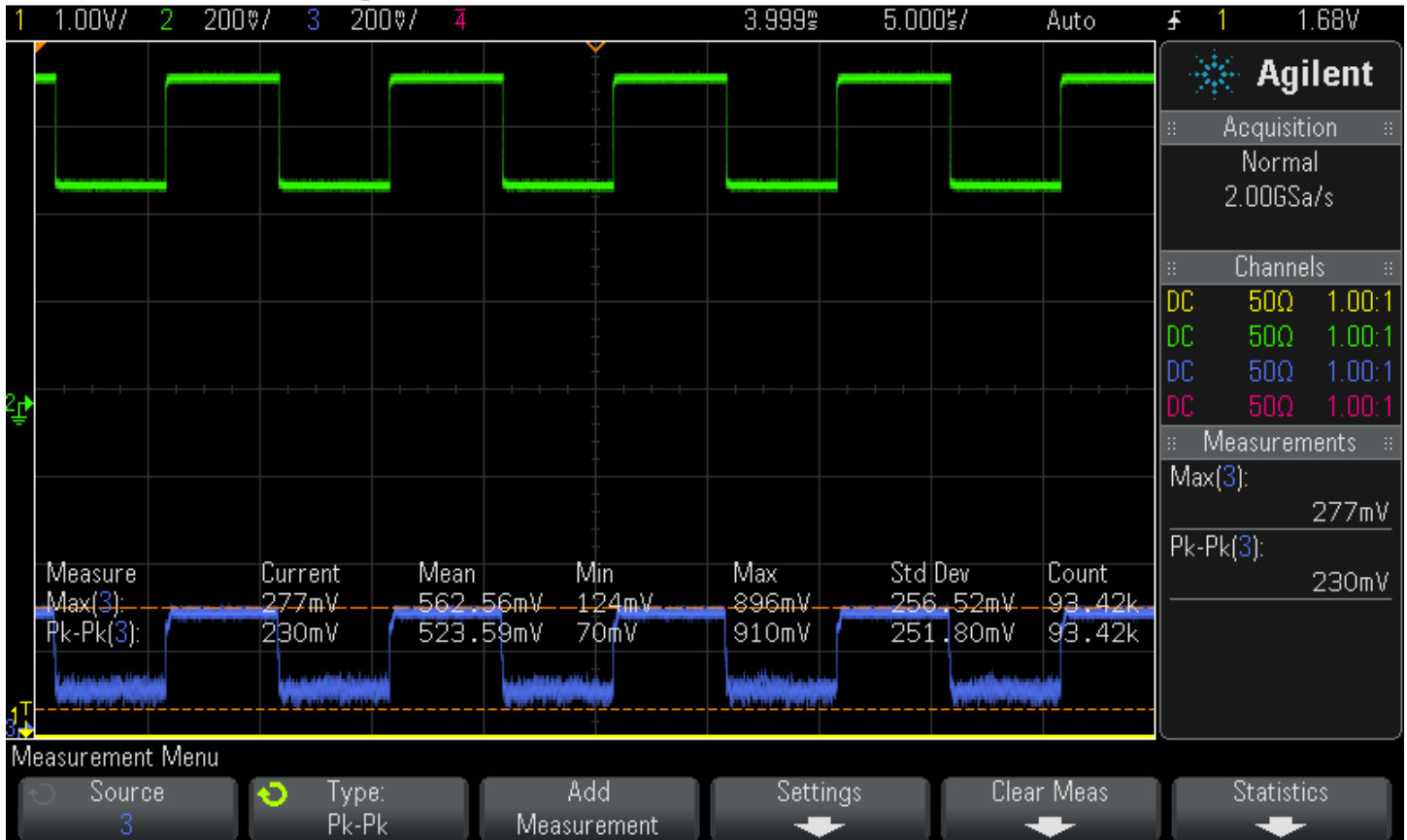




TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 5 -60 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Wed Aug 27 00:00:47 2014



Green Trace: Comparator LVDS+ Output
Blue Trace: Proportional Video Output

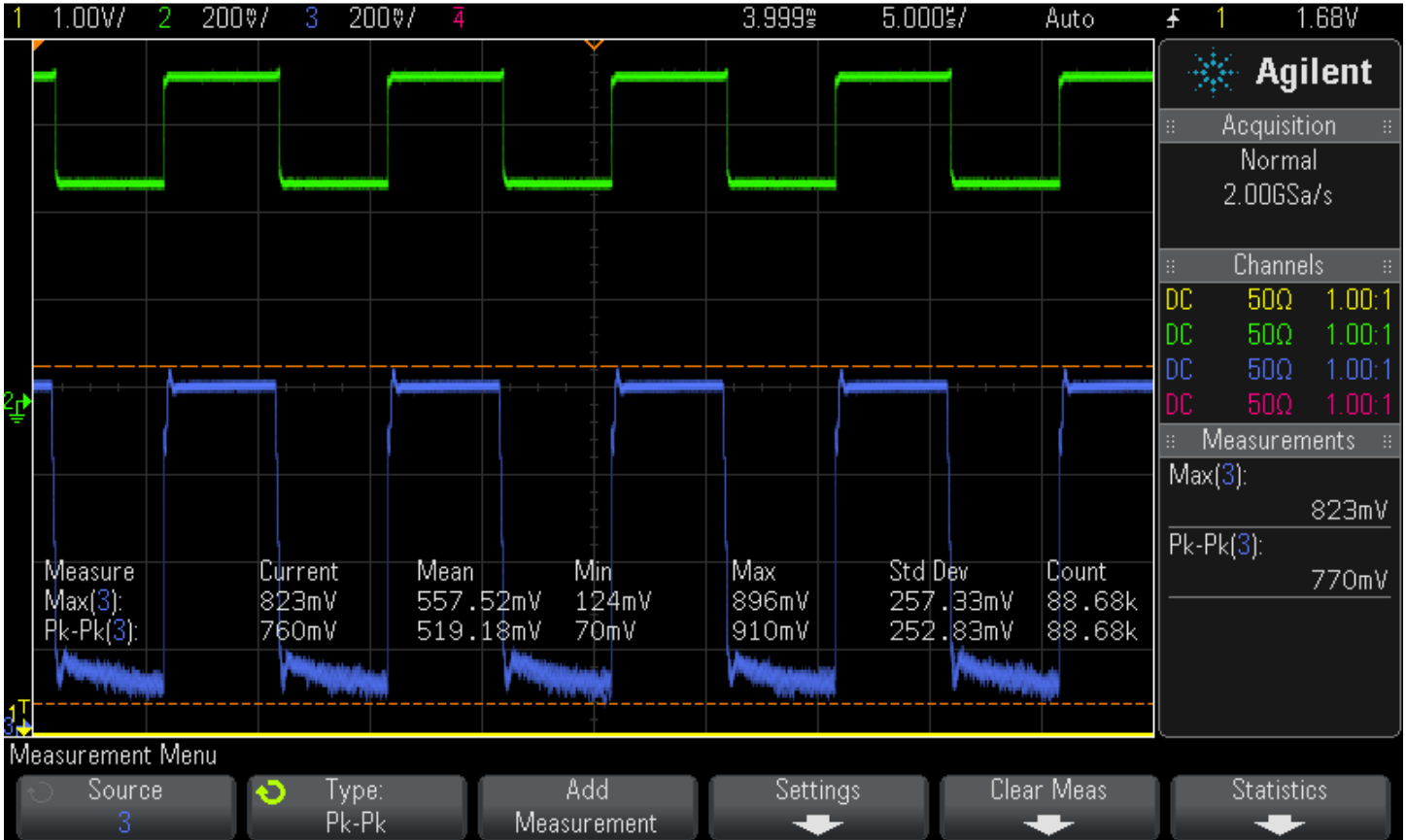
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Receive Channel 5 -10 dBm Input Proportional and Comparator Outputs

DSO-X 3034A, MY52103312: Tue Aug 26 23:58:56 2014



Green Trace: Comparator LVDS+ Output
 Blue Trace: Proportional Video Output

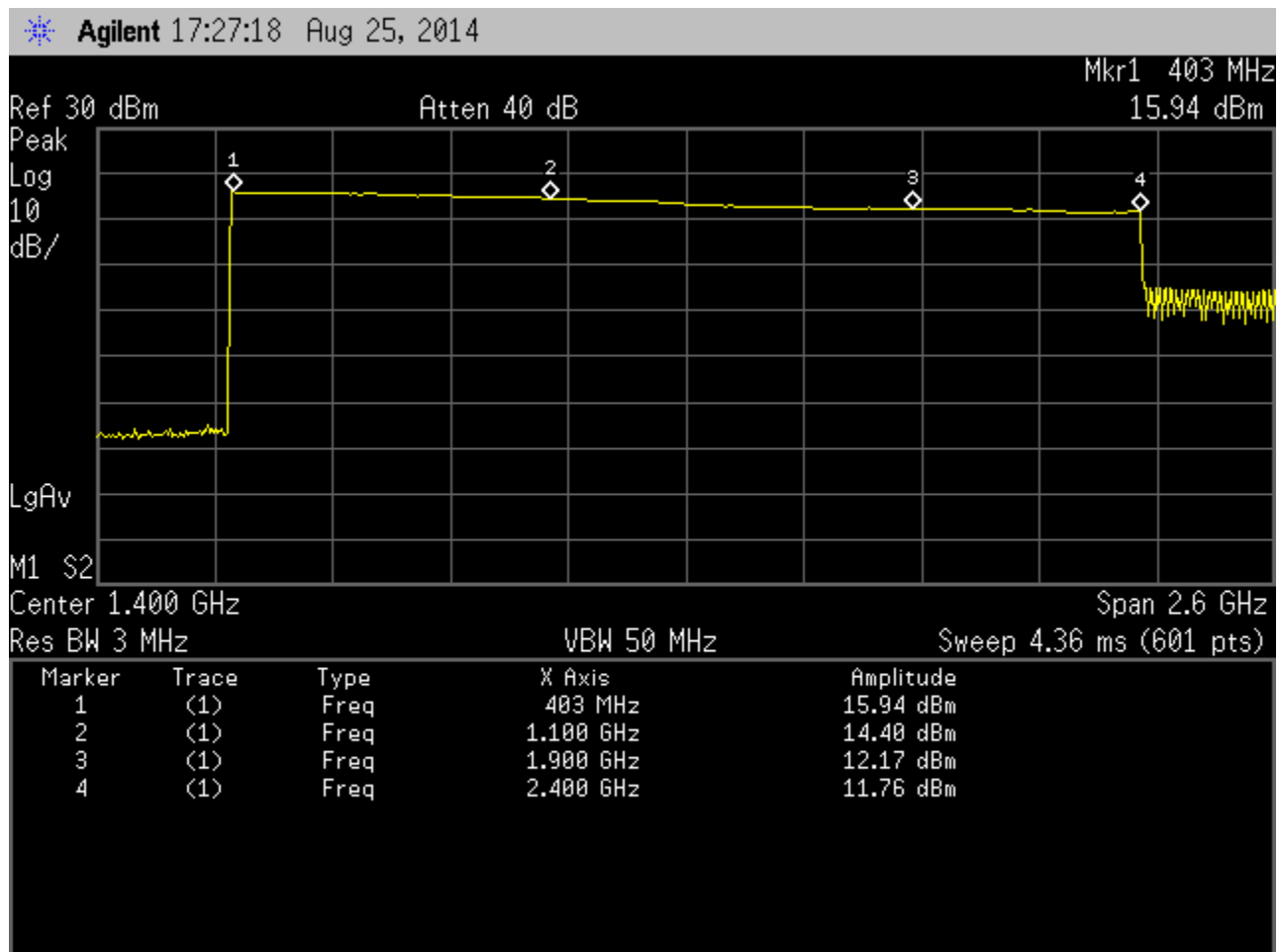
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
 Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

PTRAN-100M18G-SFB-3UVPX-MAH TRANSMIT PLOTS

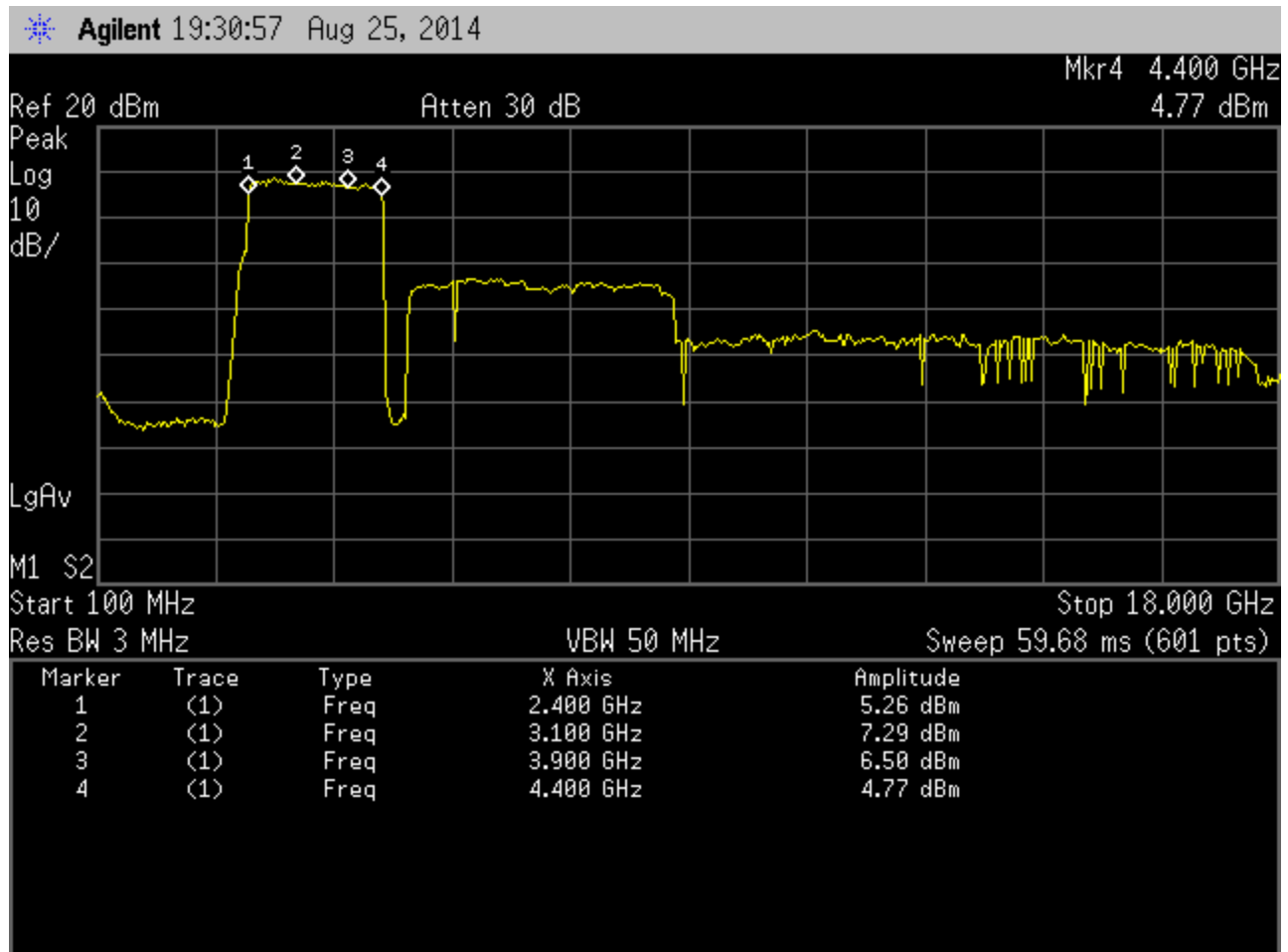
Low Frequency Path TX Filter Bank Thru Channel
0 dBm IF Input





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

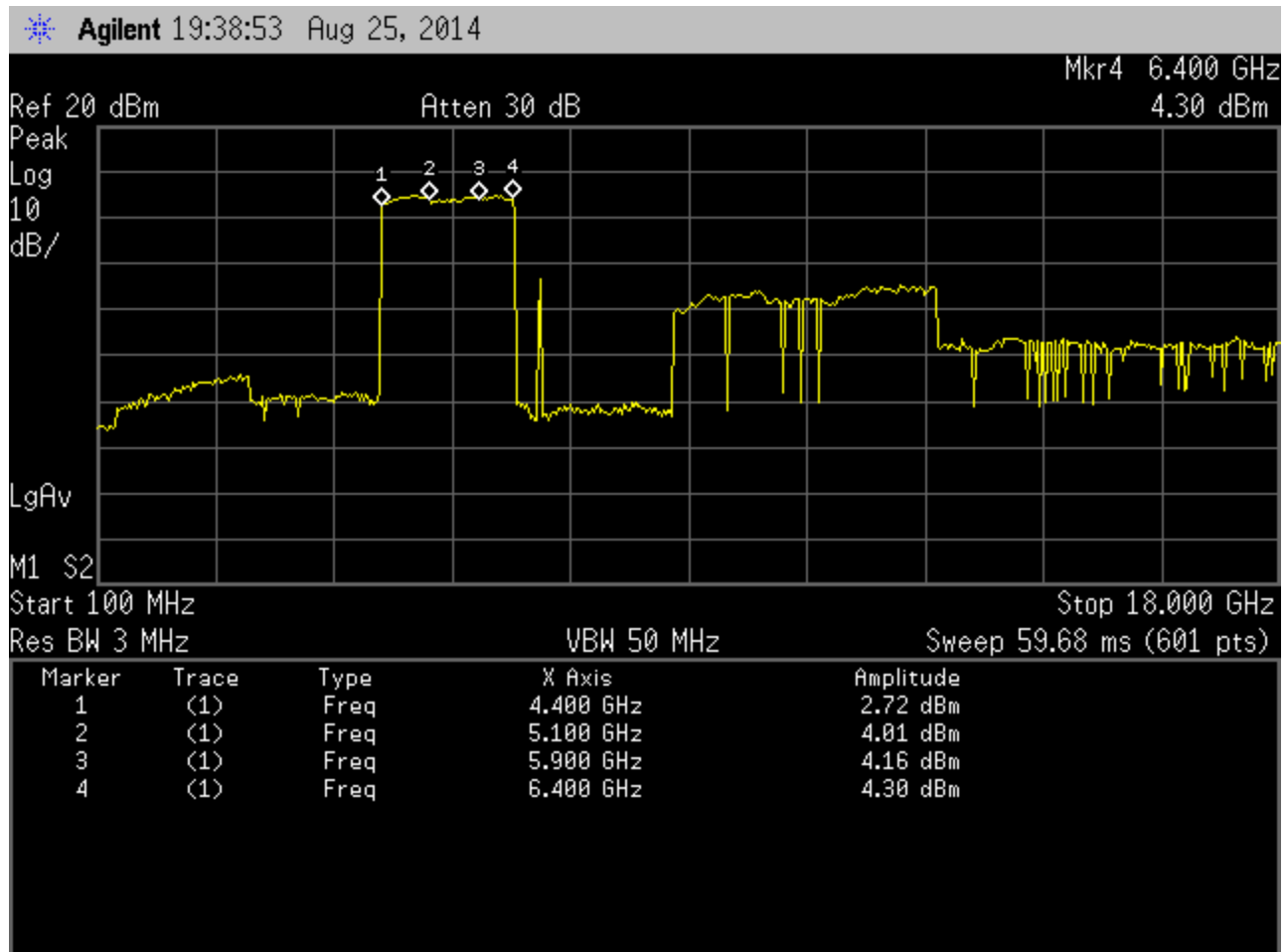
High Frequency Path TX Filter Bank Channel 1 0 dBm IF Input, 23 dB Variable Attenuation





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

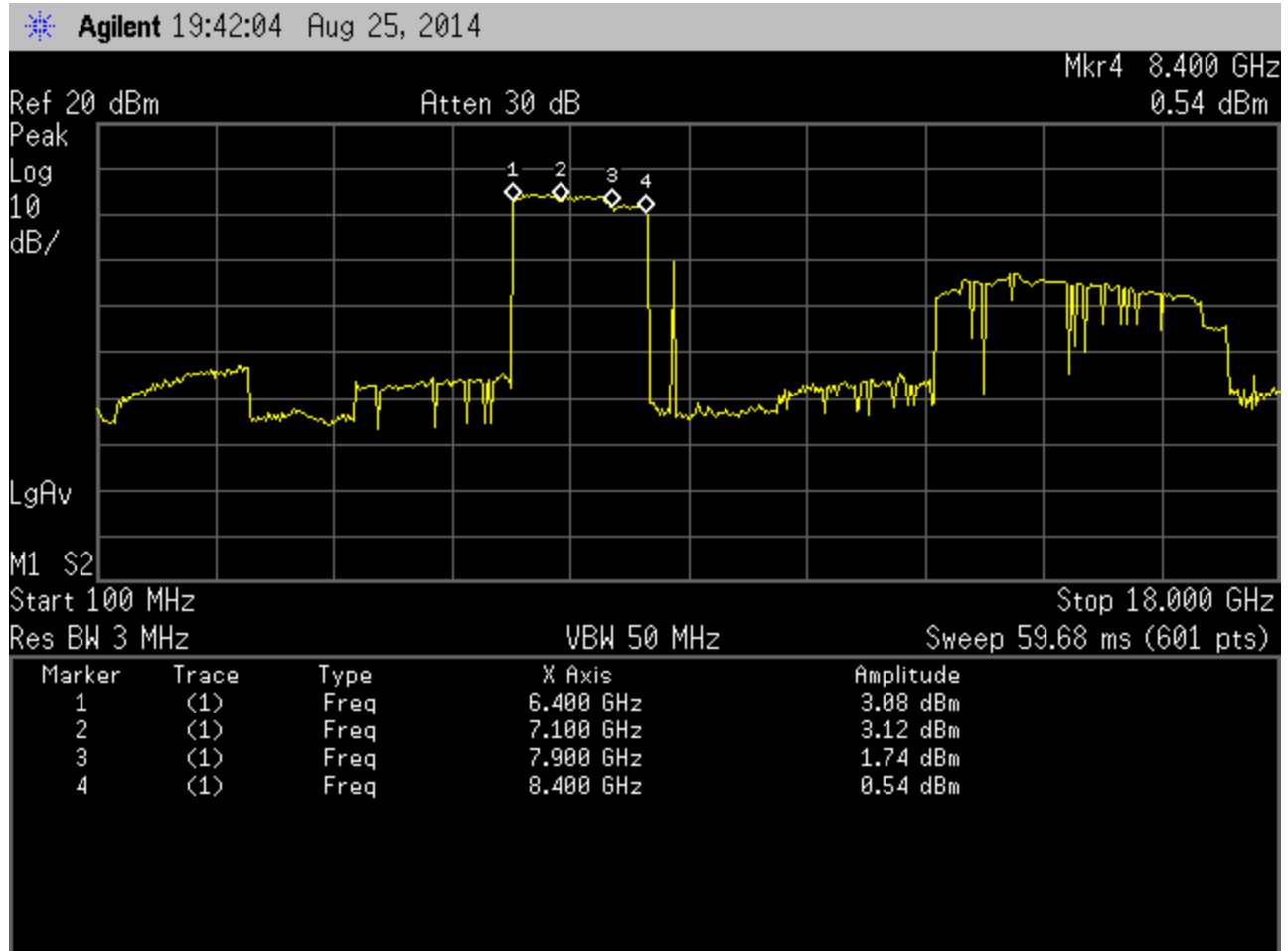
High Frequency Path TX Filter Bank Channel 2 0 dBm IF Input, 23 dB Variable Attenuation





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

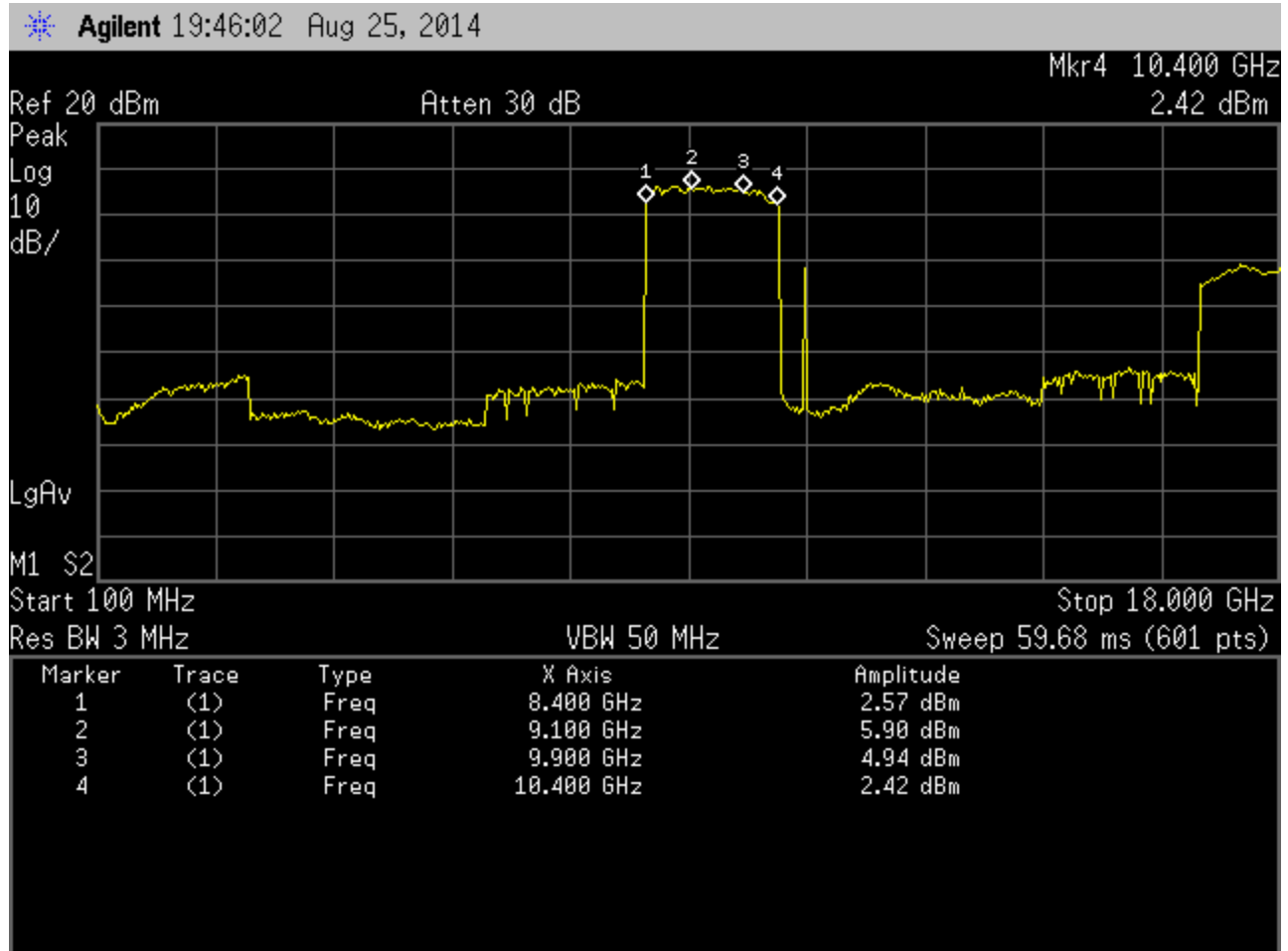
High Frequency Path TX Filter Bank Channel 3 0 dBm IF Input, 23 dB Variable Attenuation





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

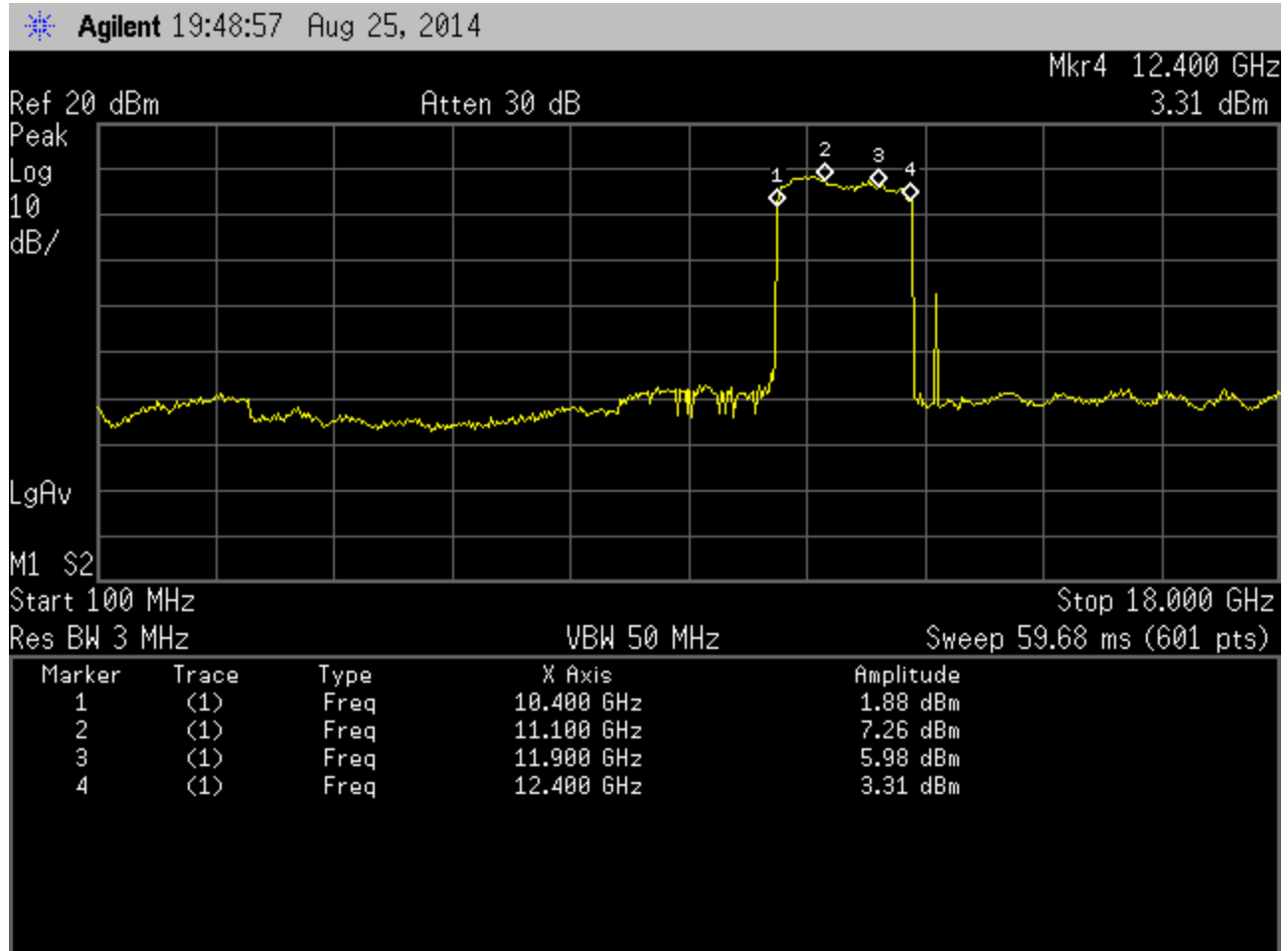
High Frequency Path TX Filter Bank Channel 4 0 dBm IF Input, 15 dB Variable Attenuation





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Path TX Filter Bank Channel 5 0 dBm IF Input, 5 dB Variable Attenuation

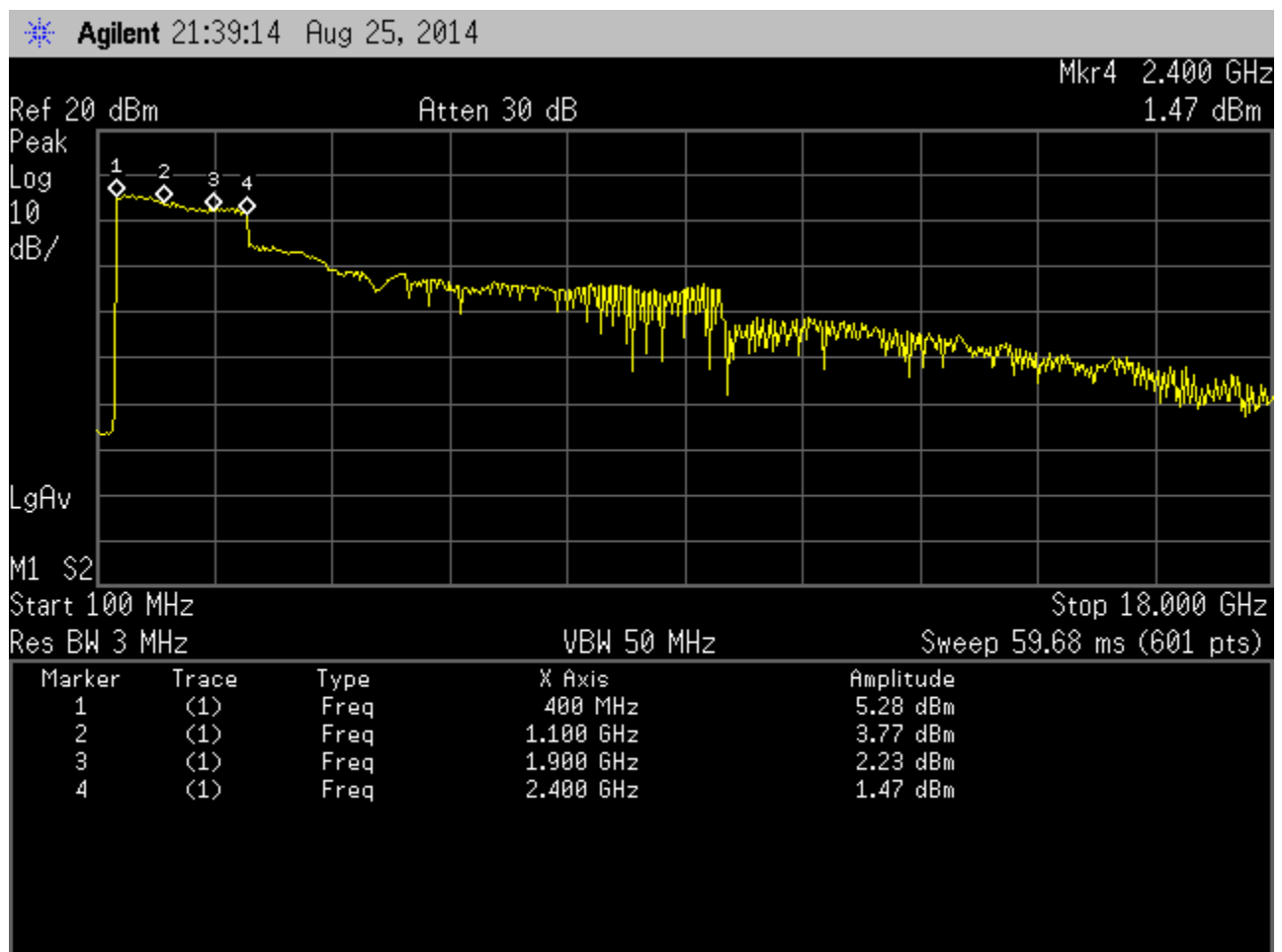




TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

PTRAN-100M18G-SFB-3UVPX-MAH BUILT-IN TEST PLOTS

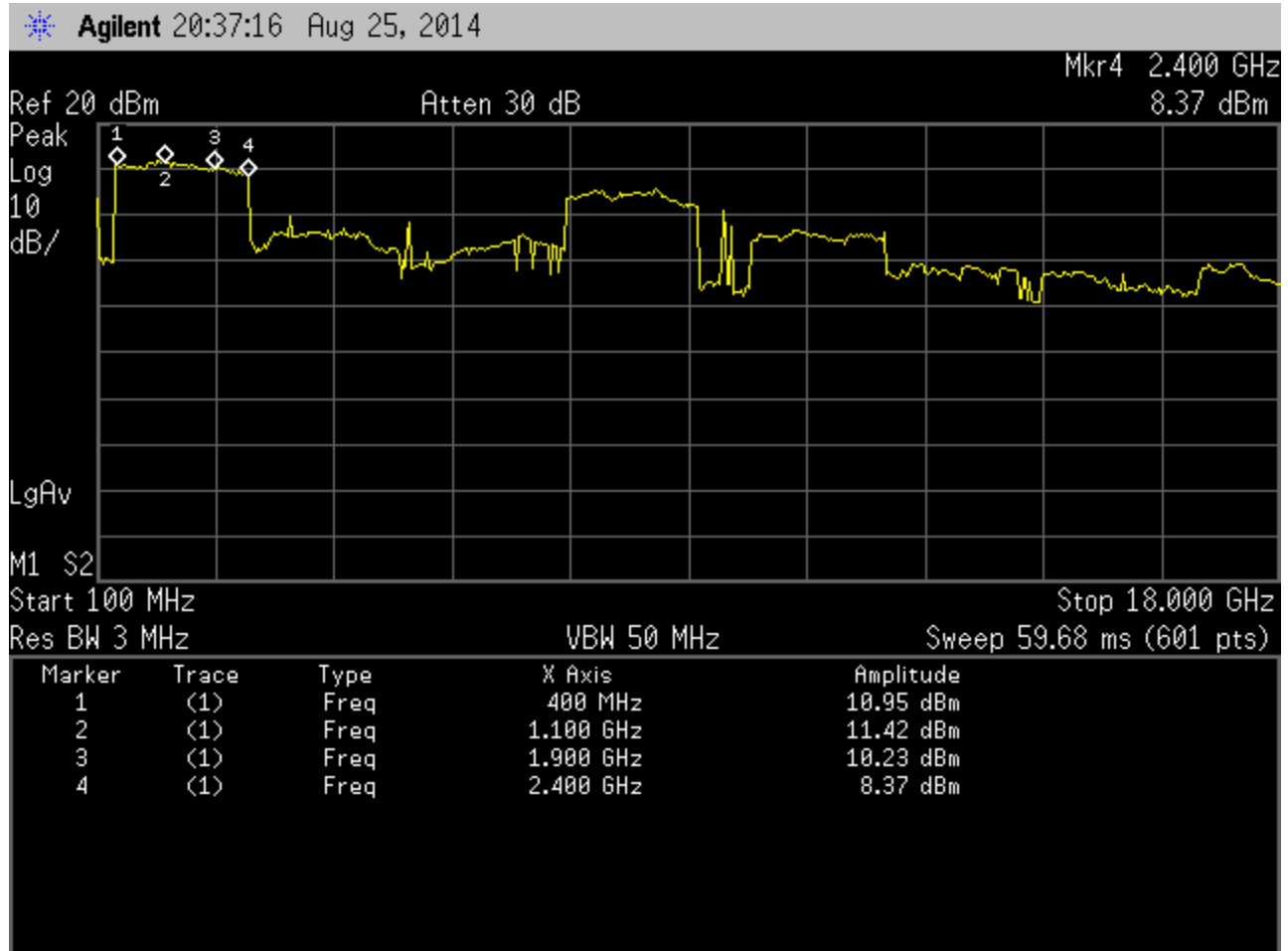
Low Frequency Built In Test Path RX Filter Bank Thru
0 dBm IF Input





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

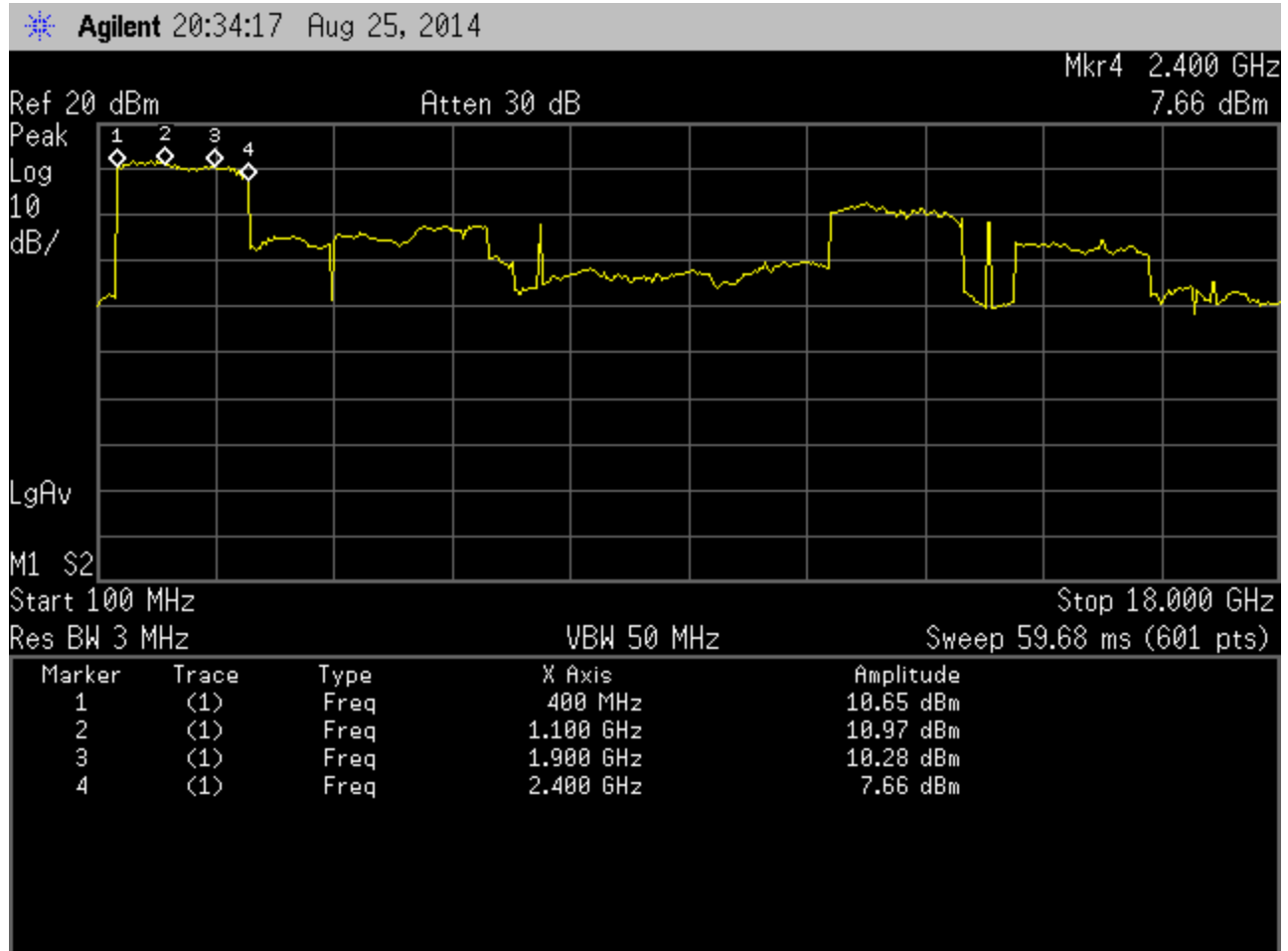
High Frequency Built In Test Path RX Filter Bank Channel 1 0 dBm IF Input





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

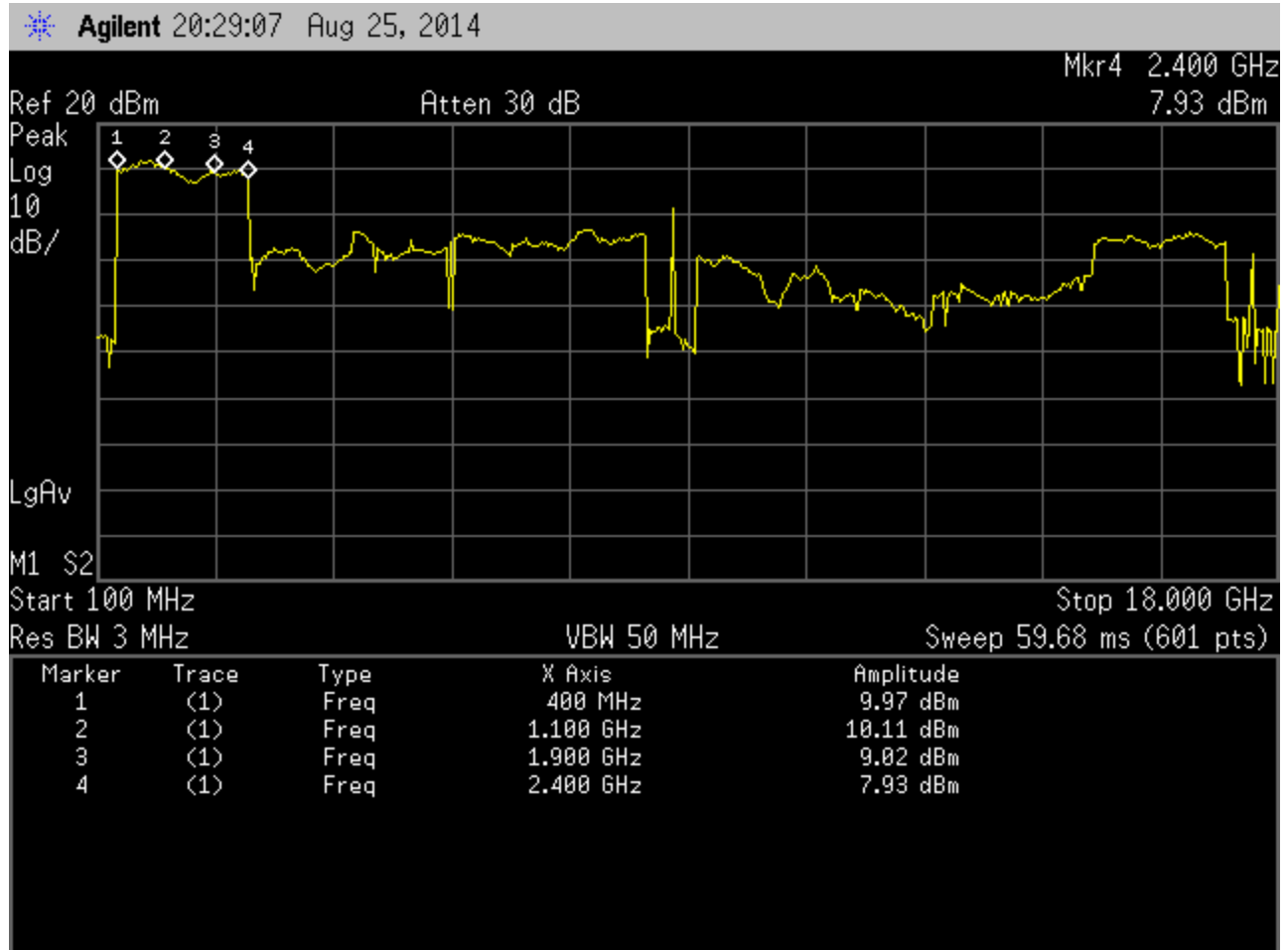
High Frequency Built In Test Path RX Filter Bank Channel 2 0 dBm IF Input





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

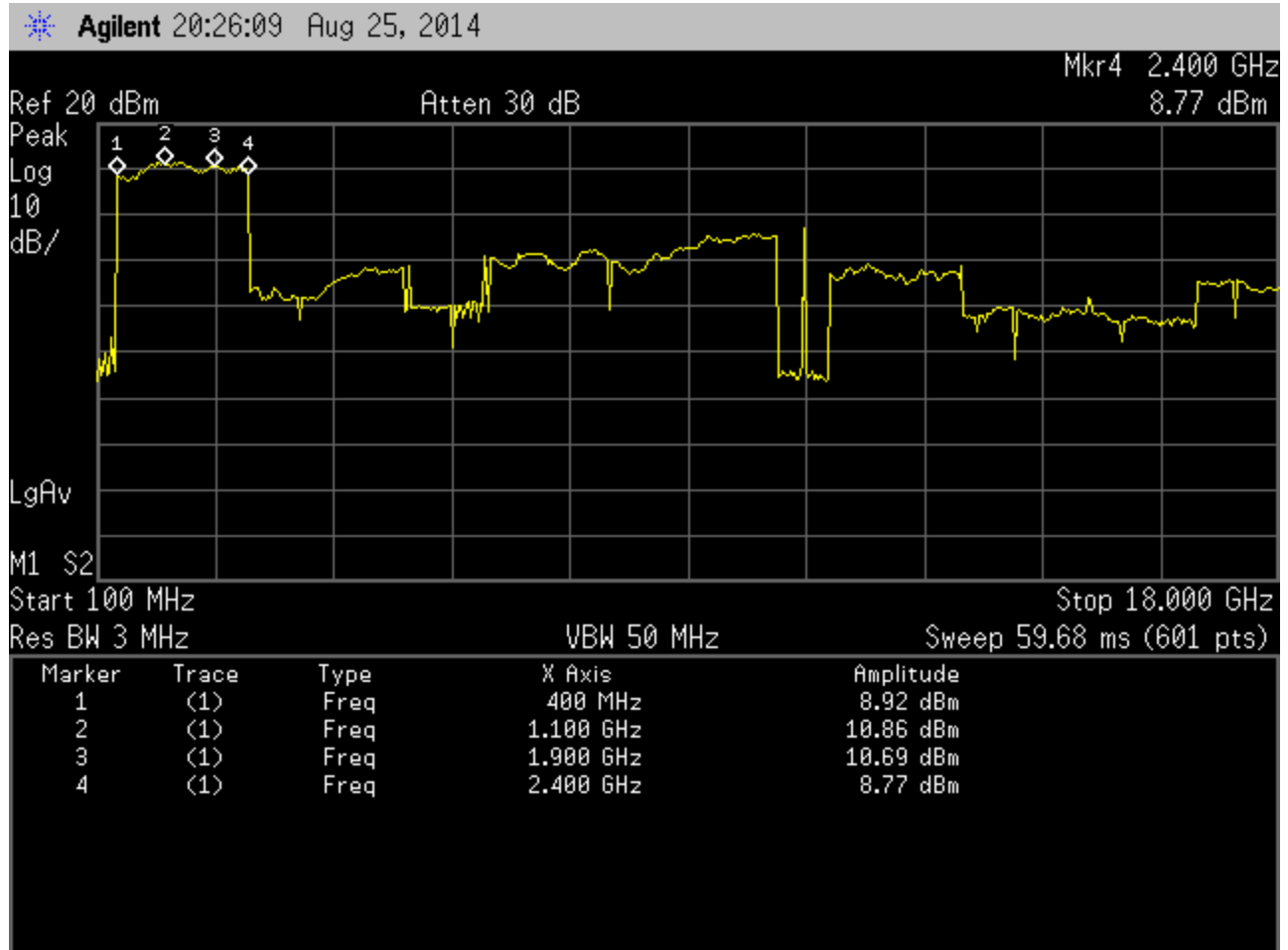
High Frequency Built In Test Path RX Filter Bank Channel 3 0 dBm IF Input





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Built In Test Path RX Filter Bank Channel 4 0 dBm IF Input





TYPICAL CHARACTERISTICS ON PTRAN-100M18G-SFB-3UVPX-MAH

High Frequency Built In Test Path RX Filter Bank Channel 5 0 dBm IF Input

