Appendix A: DTS (6 dB) Bandwidth

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In this document, the “DTS6dBBW” refers to the measured “DTS (6 dB) Bandwidth” value. In this Appendix, the “fc(DTS6dBBW)” refers to the centre of the measured “DTS6dBBW”. The introduction of the “fc(DTS6dBBW)” is due to that other measurements use it as the spectrum analyzer setting.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

1 Result Table

EUT Conf.	Ant.	fc(DTS6dBBW) [MHz]	DTS6dBBW [MHz]	Verdict
11B/1_B@1	Ant 1	10.12	2412	Pass
11B/1_M@1	Ant 1	10.12	2437	Pass
11B/1_T@1	Ant 1	10.12	2462	Pass
11Bd/1_B@1+2	Ant 1	10.1	2411.99	Pass
	Ant 2	10.12	2412	Pass
11Bd/1_M@1+2	Ant 1	9.64	2436.78	Pass
	Ant 2	10.12	2437	Pass
11Bd/1_T@1+2	Ant 1	10.14	2461.99	Pass
	Ant 2	10.12	2462	Pass
11G/6_B@1	Ant 1	16.58	2403.72	Pass
11G/6_M@1	Ant 1	16.58	2428.7	Pass
11G/6_T@1	Ant 1	16.58	2453.7	Pass
11Gd/6_B@1+2	Ant 1	16.58	2412.01	Pass
	Ant 2	16.54	2412.01	Pass
11Gd/6_M@1+2	Ant 1	16.58	2436.99	Pass
	Ant 2	16.56	2437	Pass
11Gd/6_T@1+2	Ant 1	16.56	2461.98	Pass
	Ant 2	16.52	2461.98	Pass
11N20/0_B@1	Ant 1	17.82	2412.01	Pass
11N20/0_M@1	Ant 1	17.8	2436.98	Pass
11N20/0_T@1	Ant 1	17.74	2461.97	Pass
11N20m/8_B@1+2	Ant 1	17.78	2412.01	Pass
	Ant 2	17.82	2411.99	Pass
11N20m/8_M@1+2	Ant 1	17.82	2437.01	Pass
	Ant 2	17.72	2437	Pass
11N20m/8_T@1+2	Ant 1	17.76	2461.96	Pass
	Ant 2	17.76	2461.98	Pass

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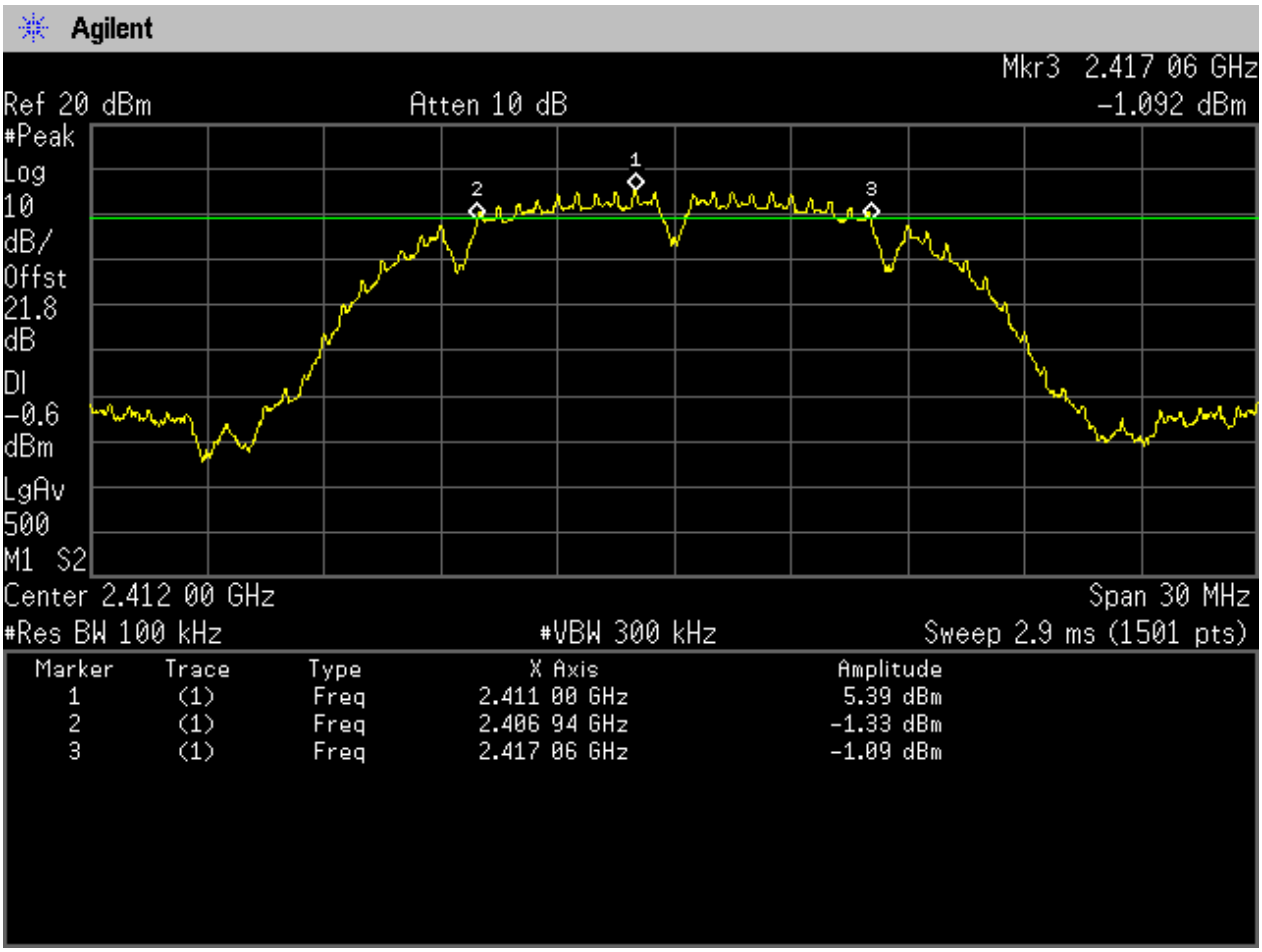
2 Test Plot

2.1 11B/1_B@1



2.2 11B/1_M@1

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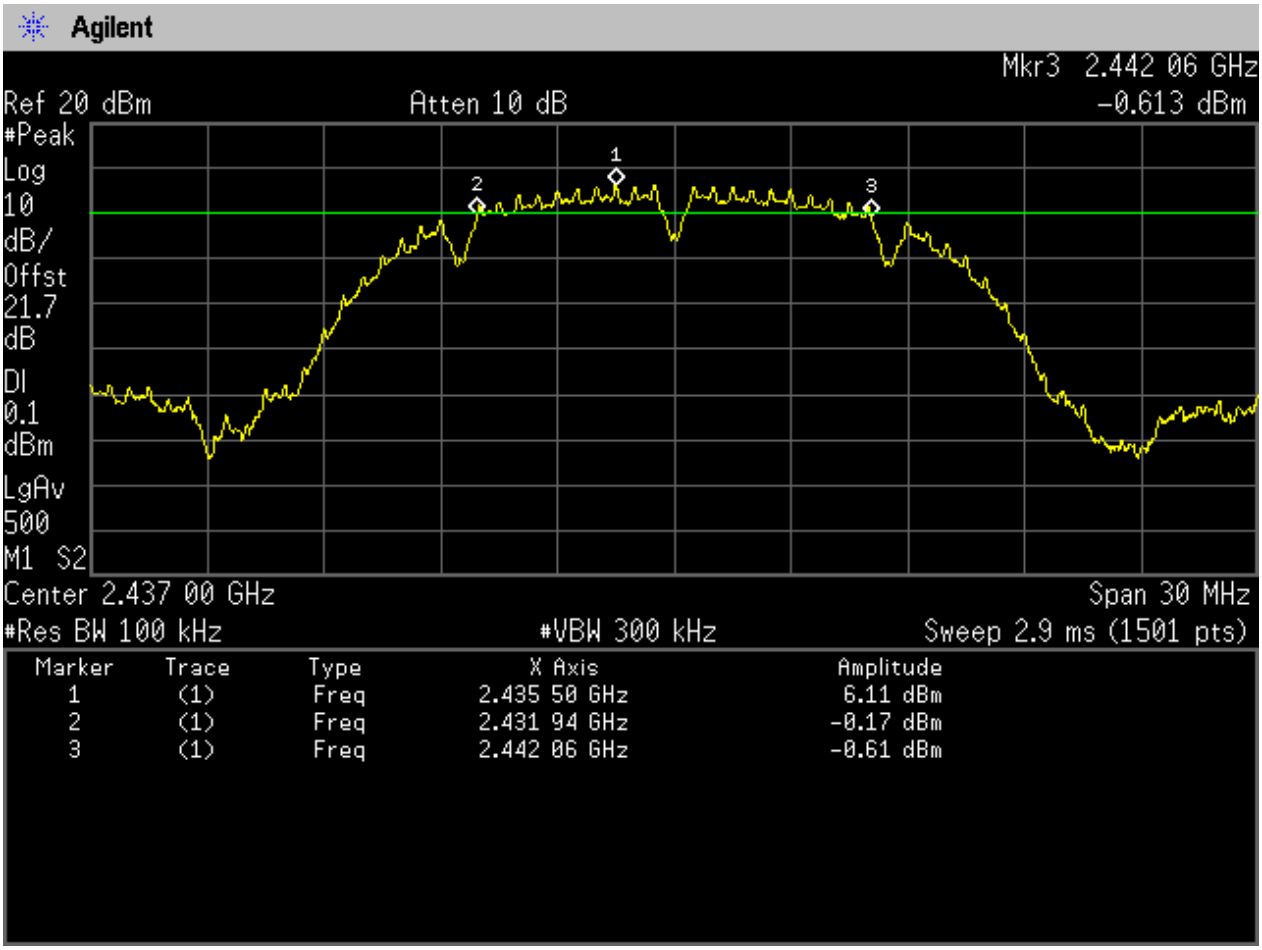

2.3 11B/1_T@1

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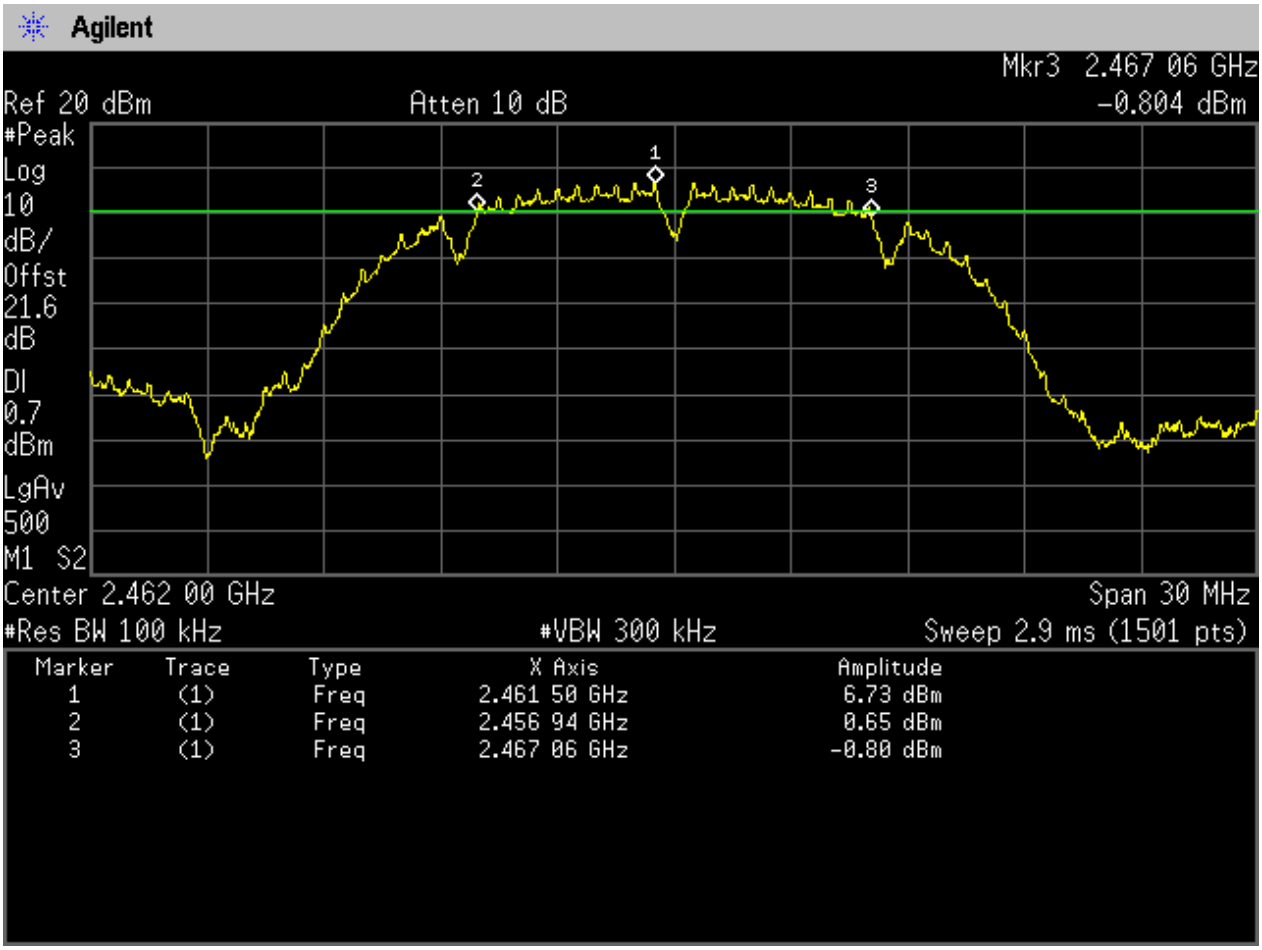

2.4 11Bd/1_B@1+2

2.4.1 Ant 1

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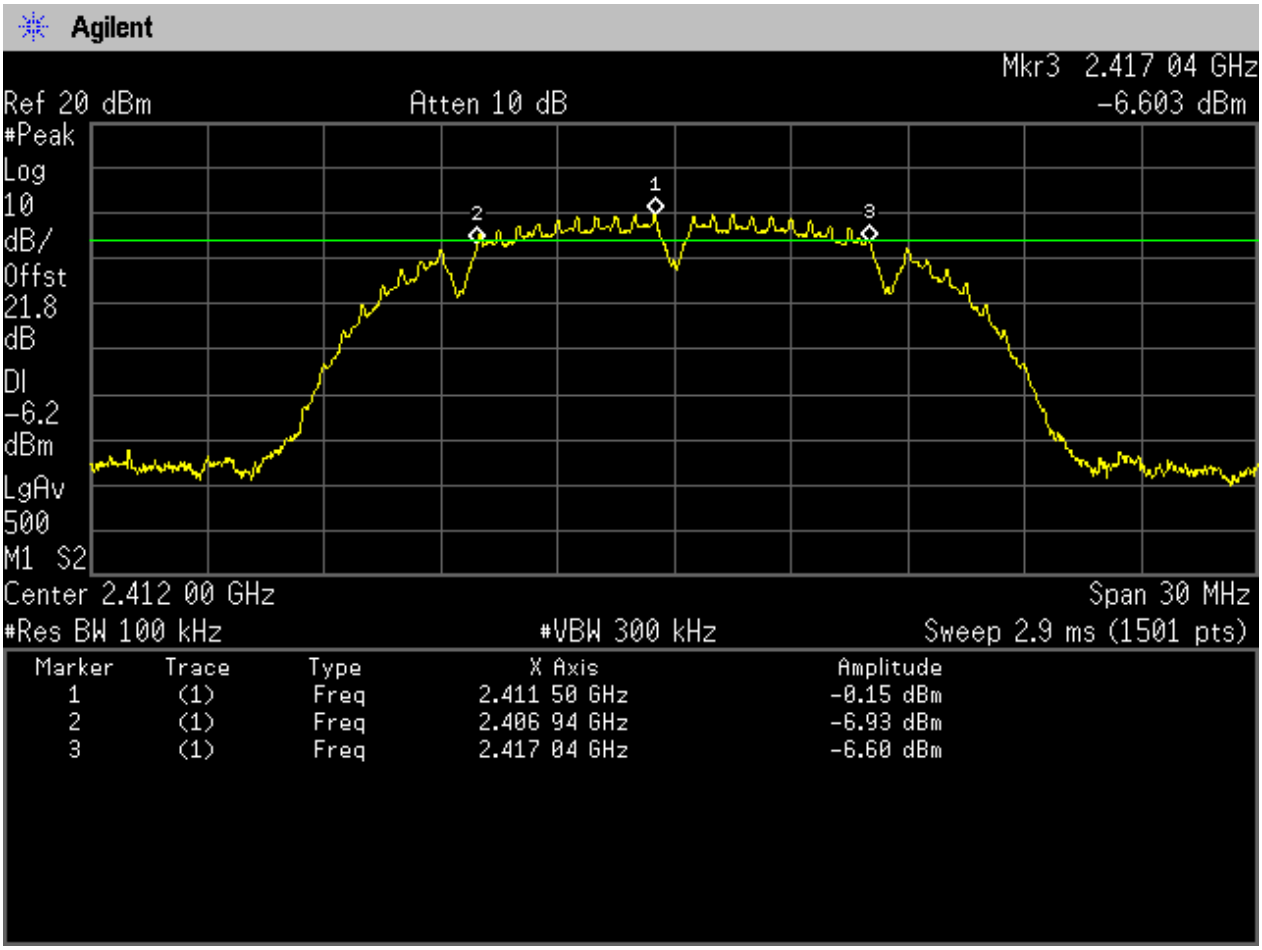

2.4.2 Ant 2

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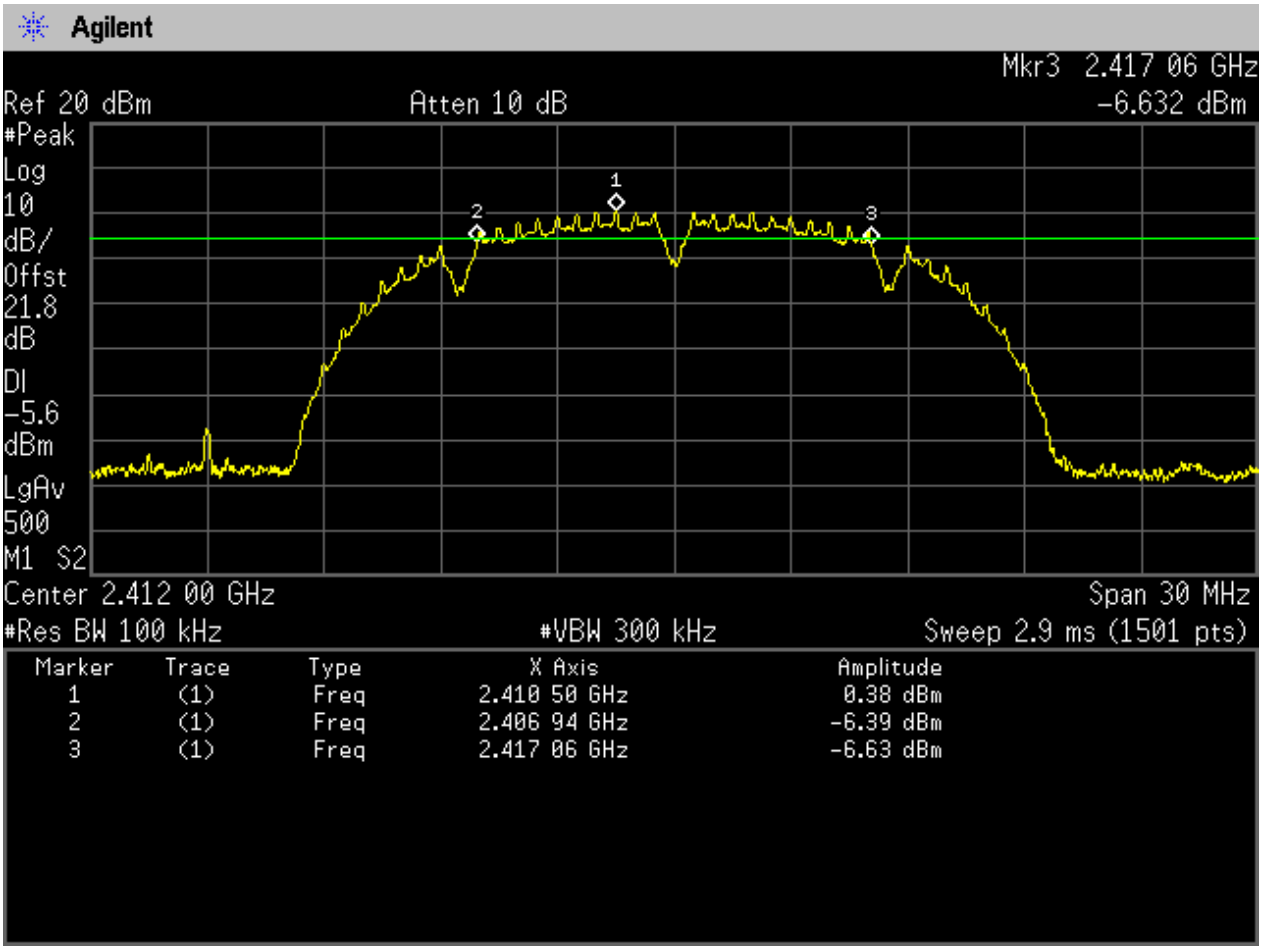

2.5 11Bd/1_M@1+2

2.5.1 Ant 1

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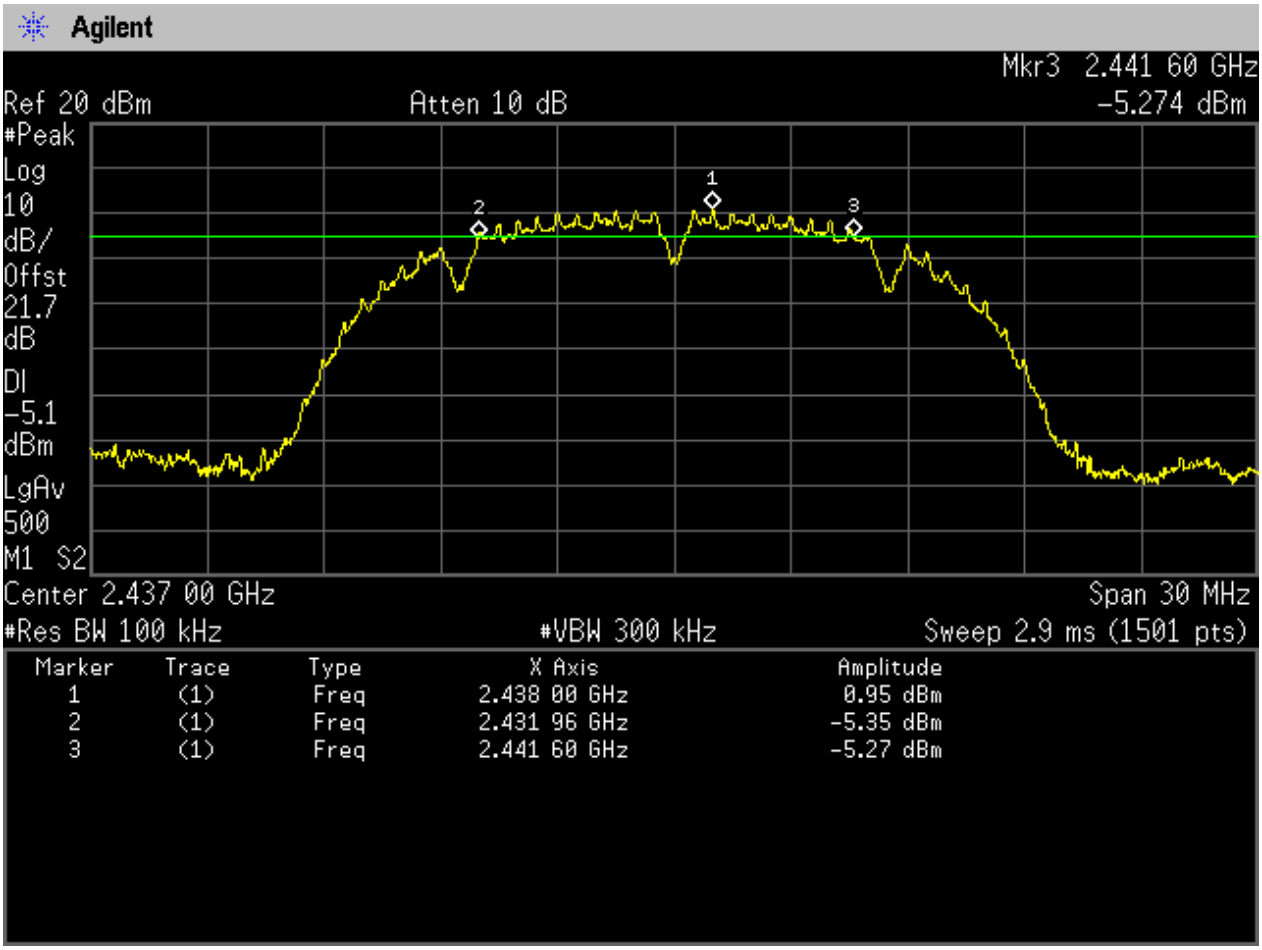

2.5.2 Ant 2

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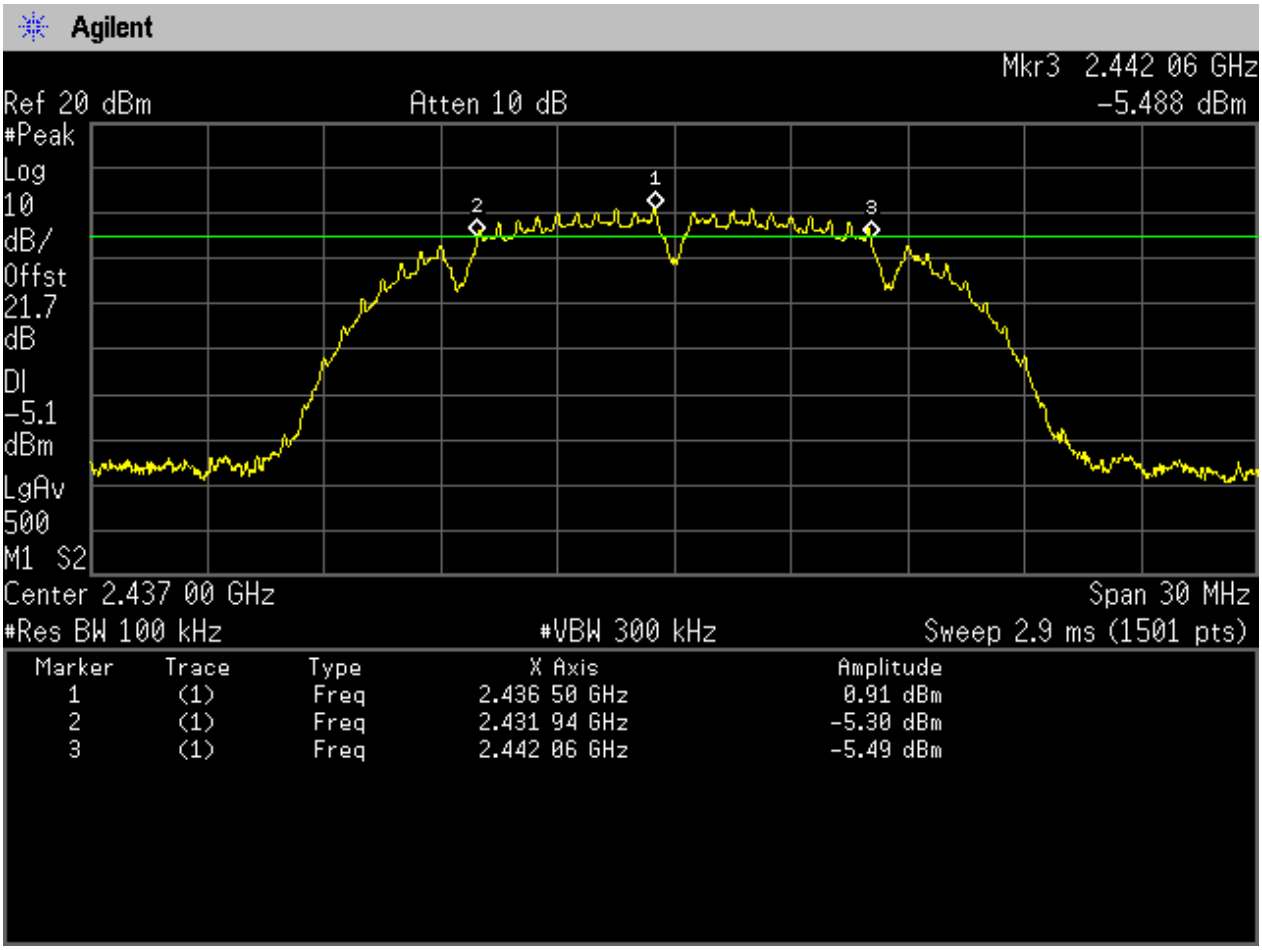

2.6 11Bd/1_T@1+2

2.6.1 Ant 1

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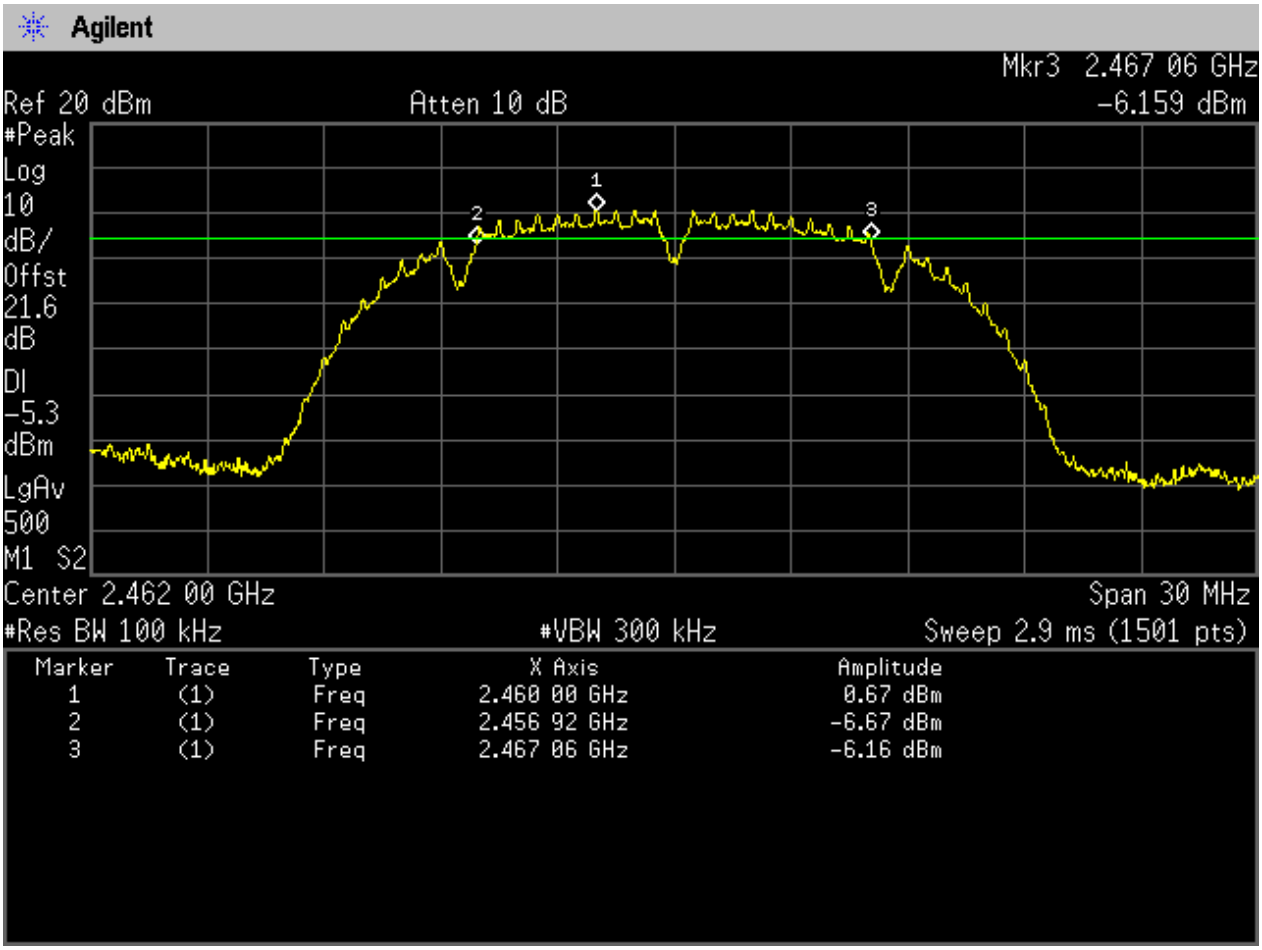

2.6.2 Ant 2

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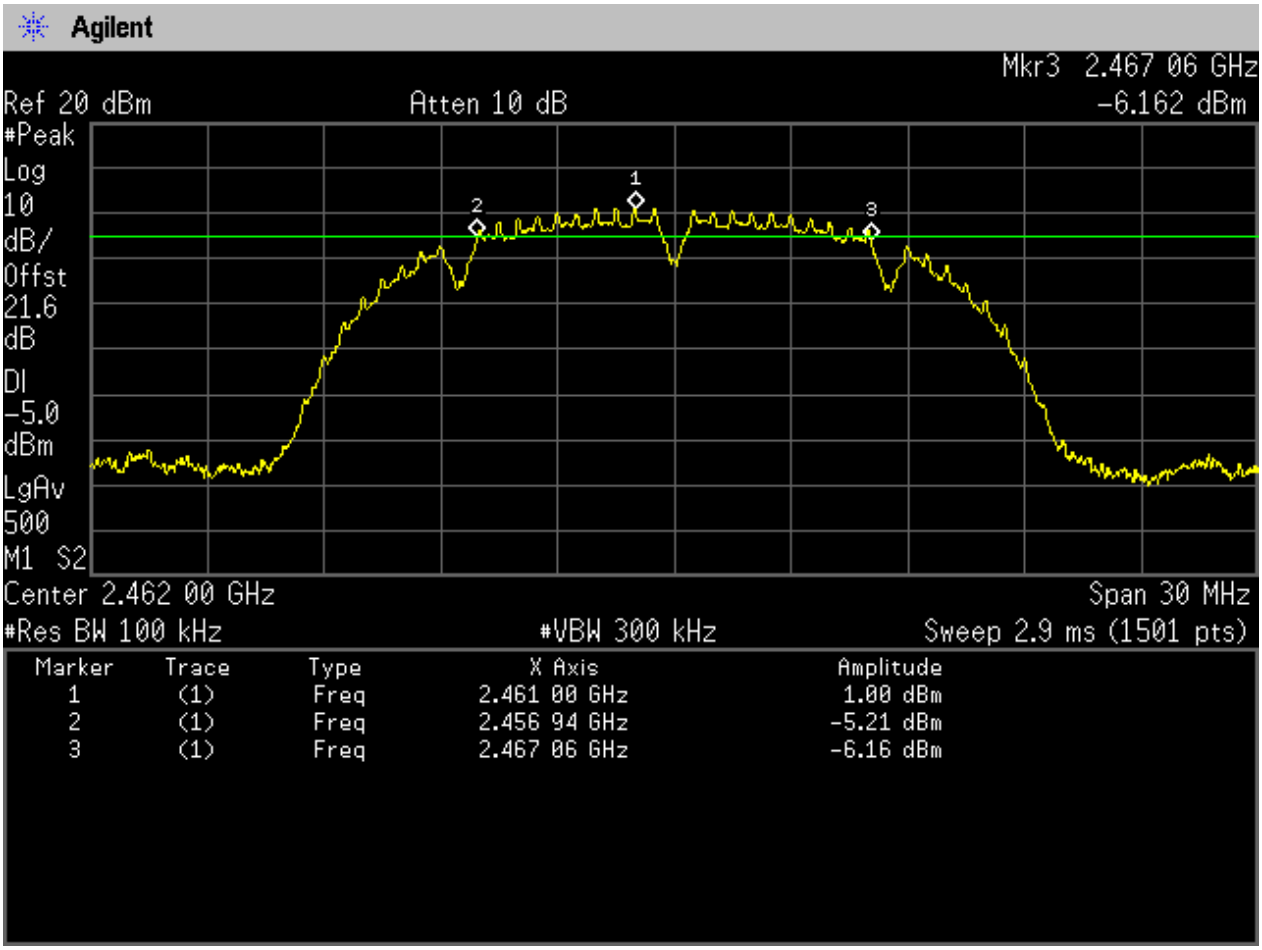

2.7 11G/6_B@1

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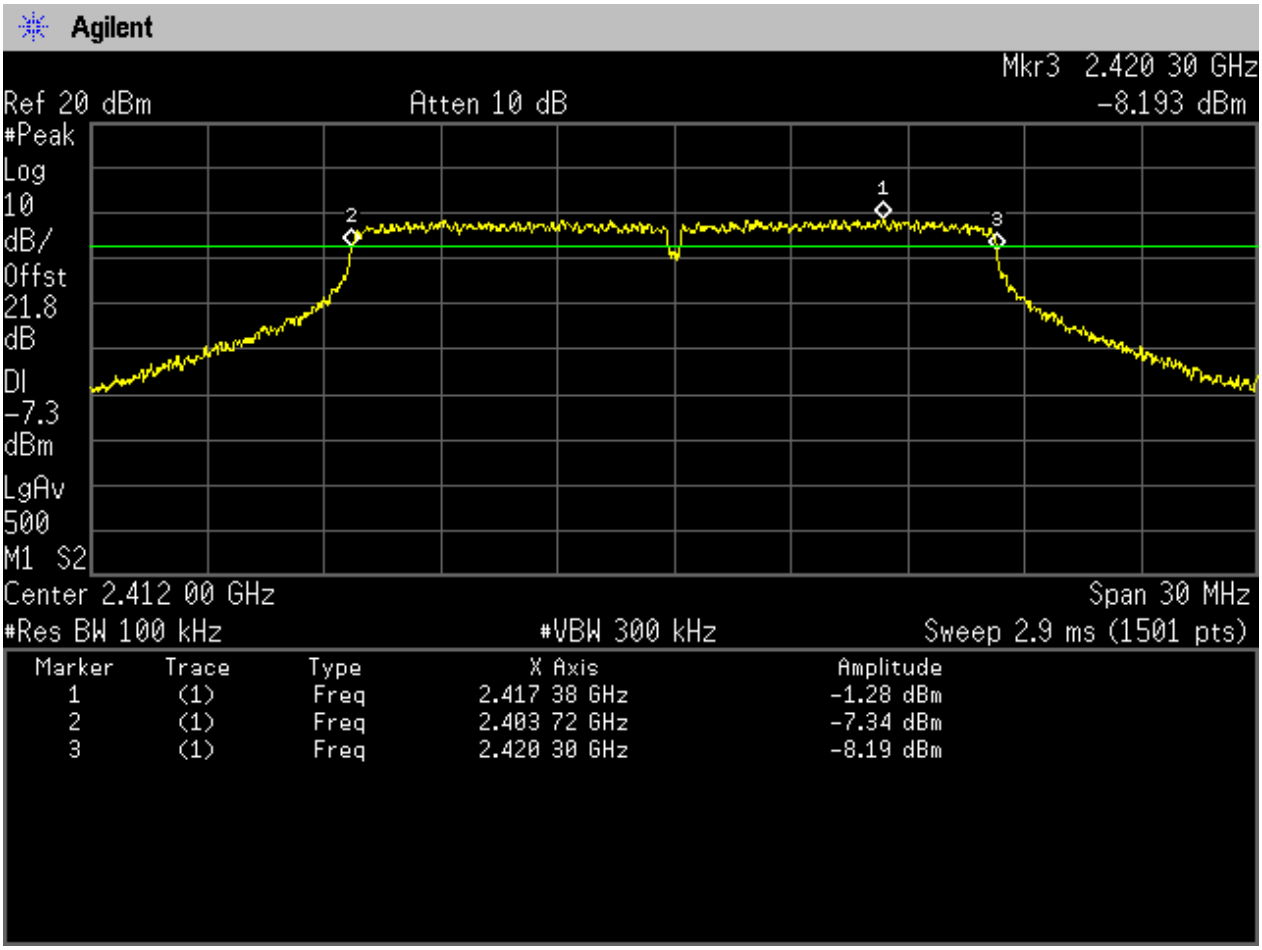

2.8 11G/6_M@1

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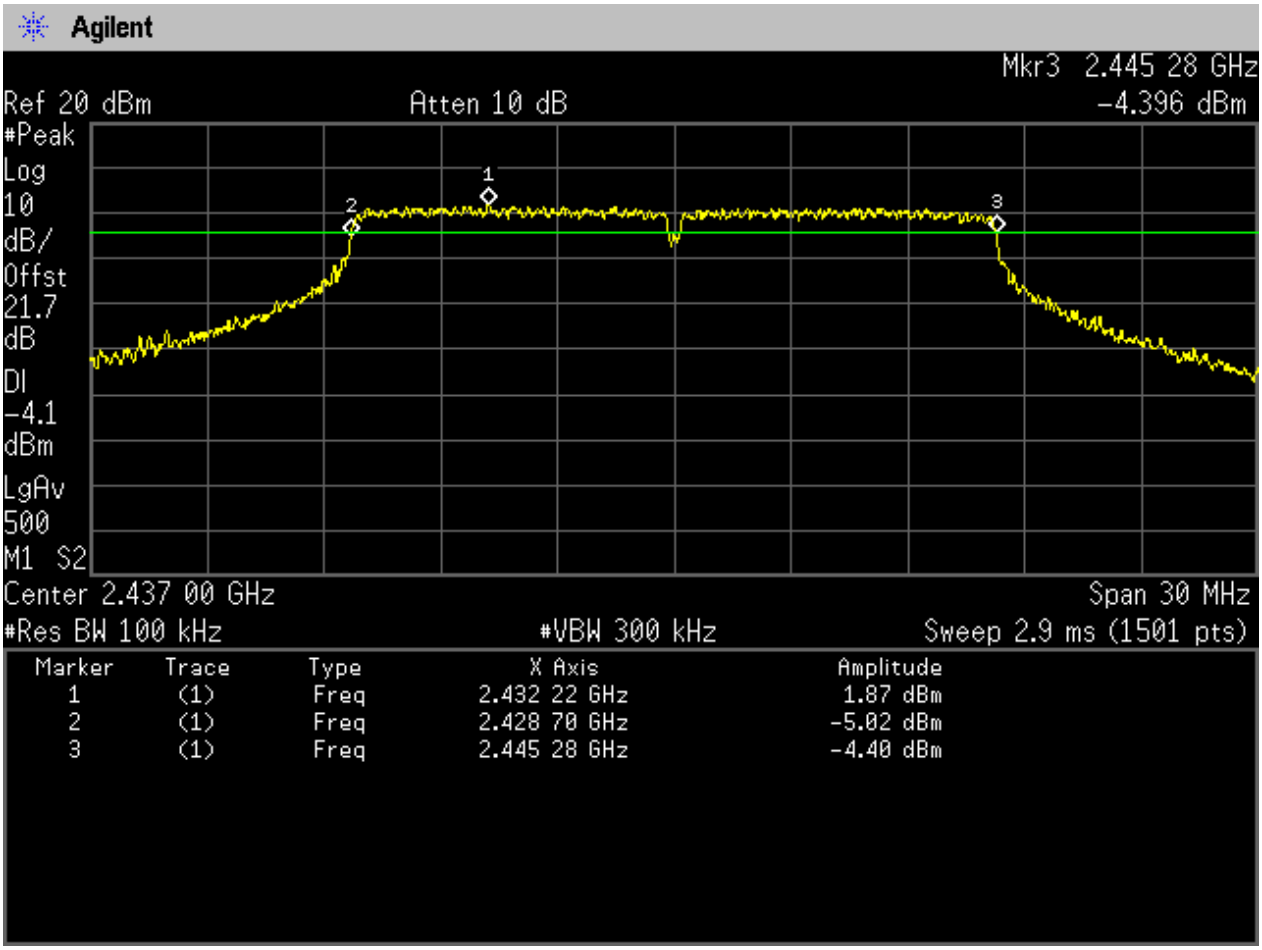

2.9 11G/6_T@1

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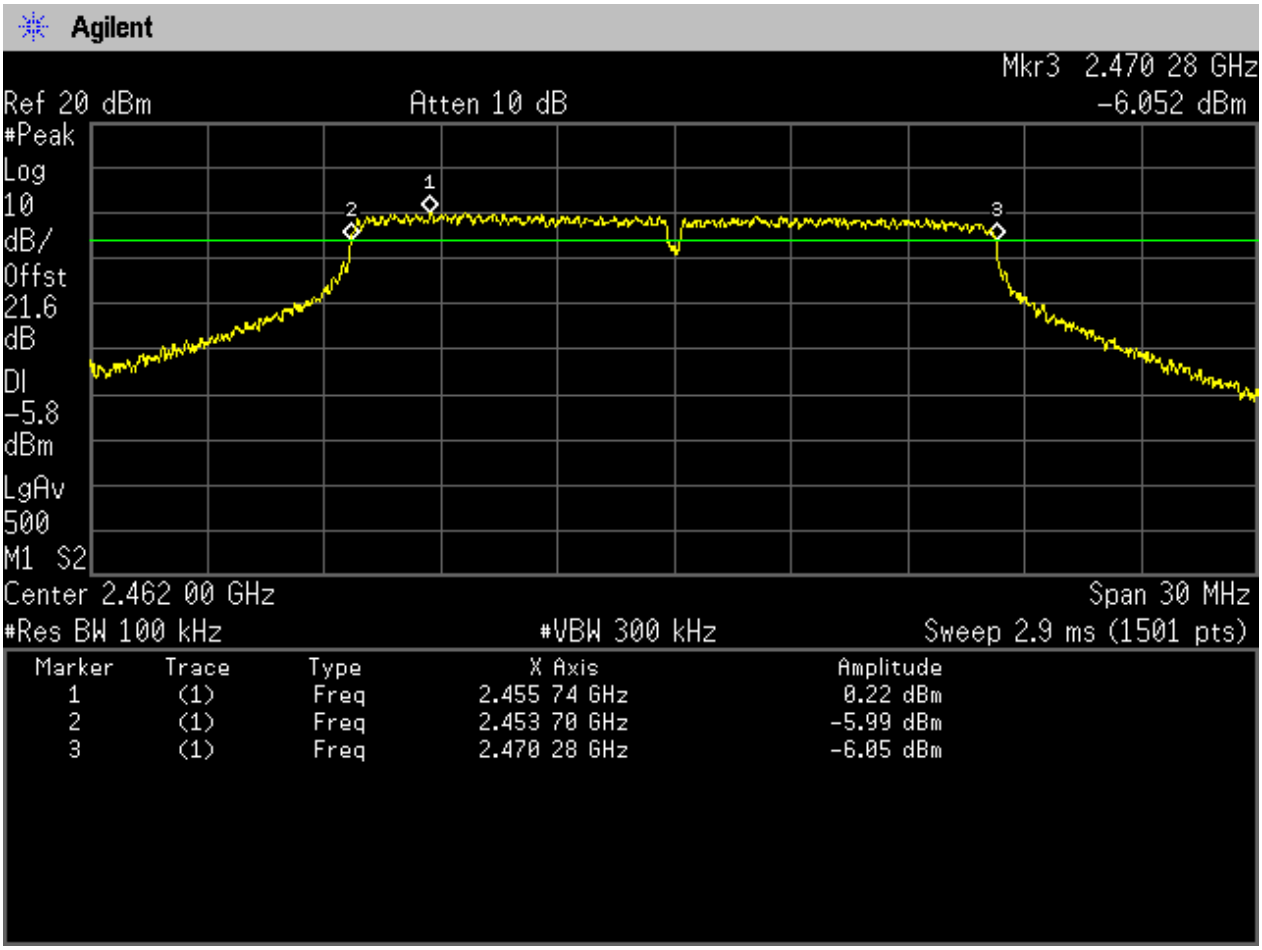

2.1011Gd/6_B@1+2

2.10.1 Ant 1

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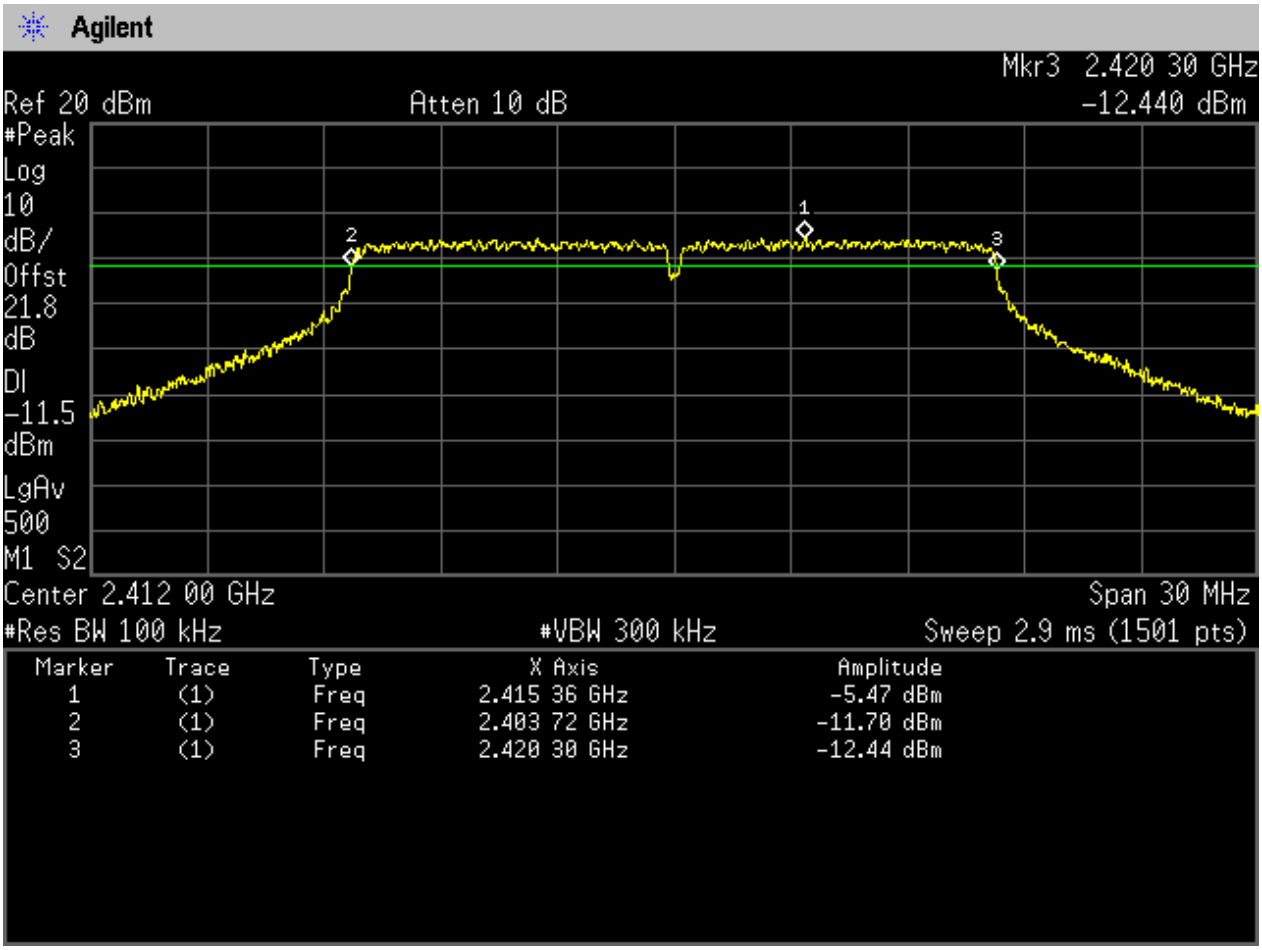

2.10.2 Ant 2

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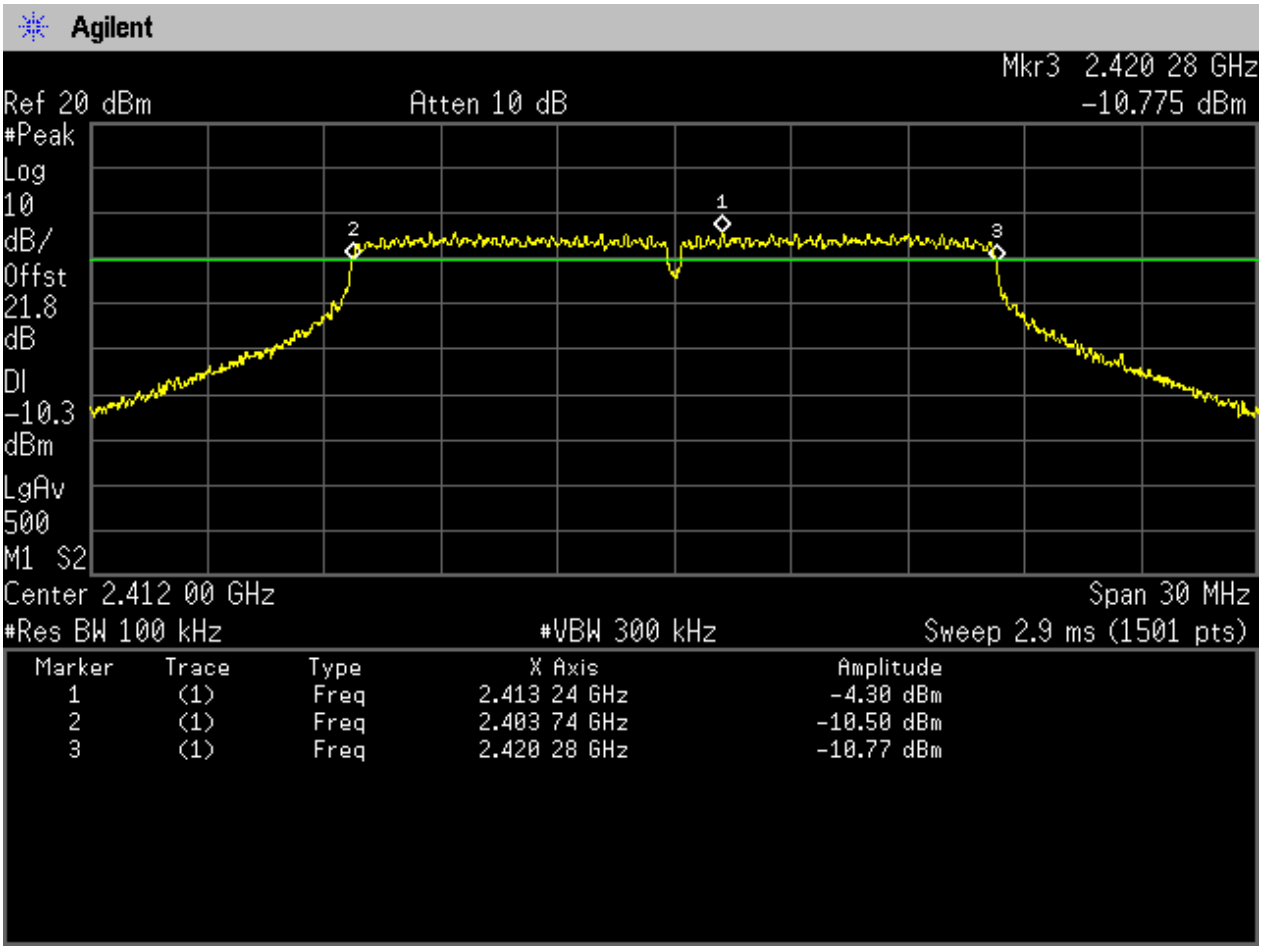

2.1111Gd/6_M@1+2

2.11.1 Ant 1

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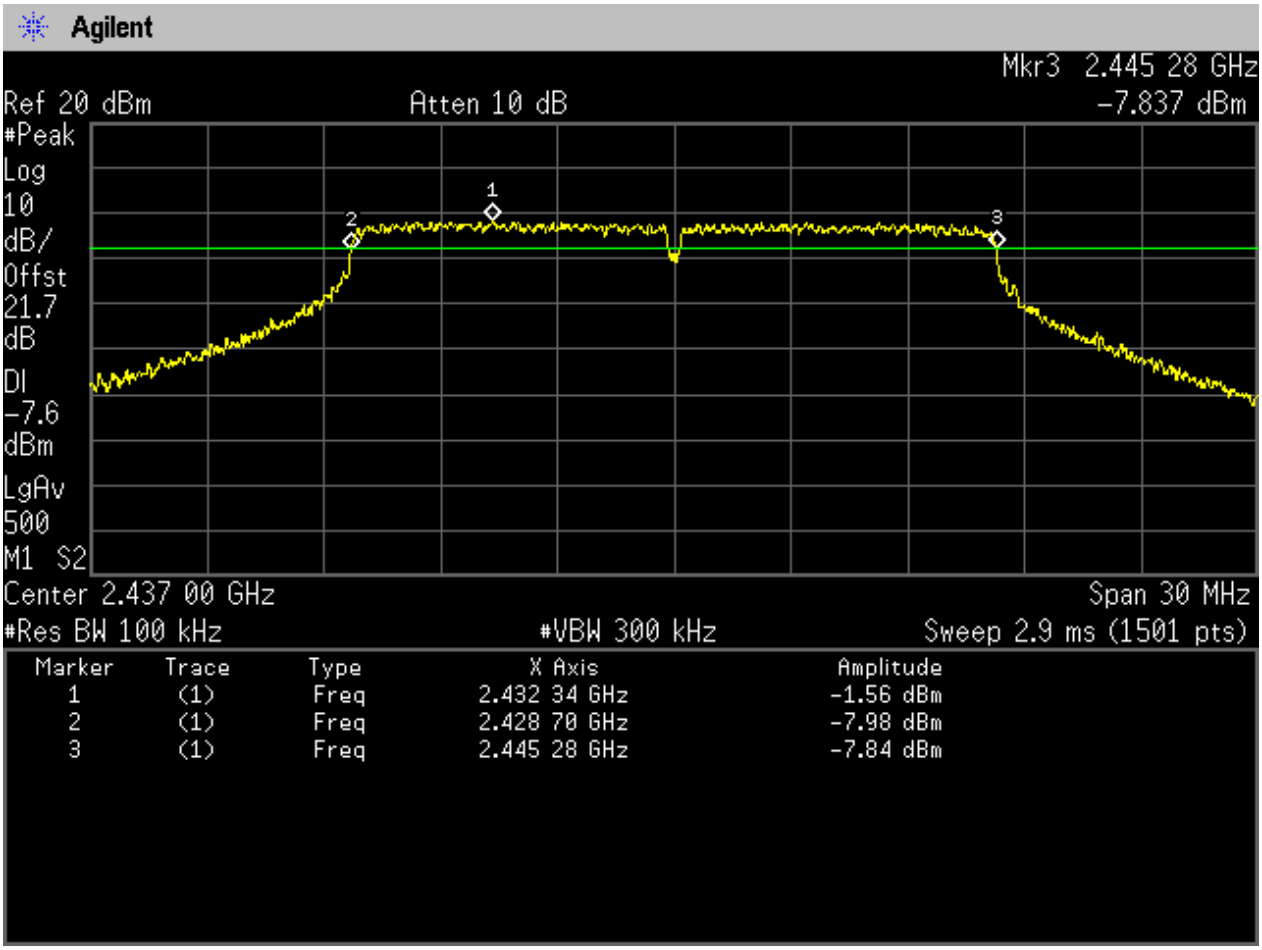

2.11.2 Ant 2

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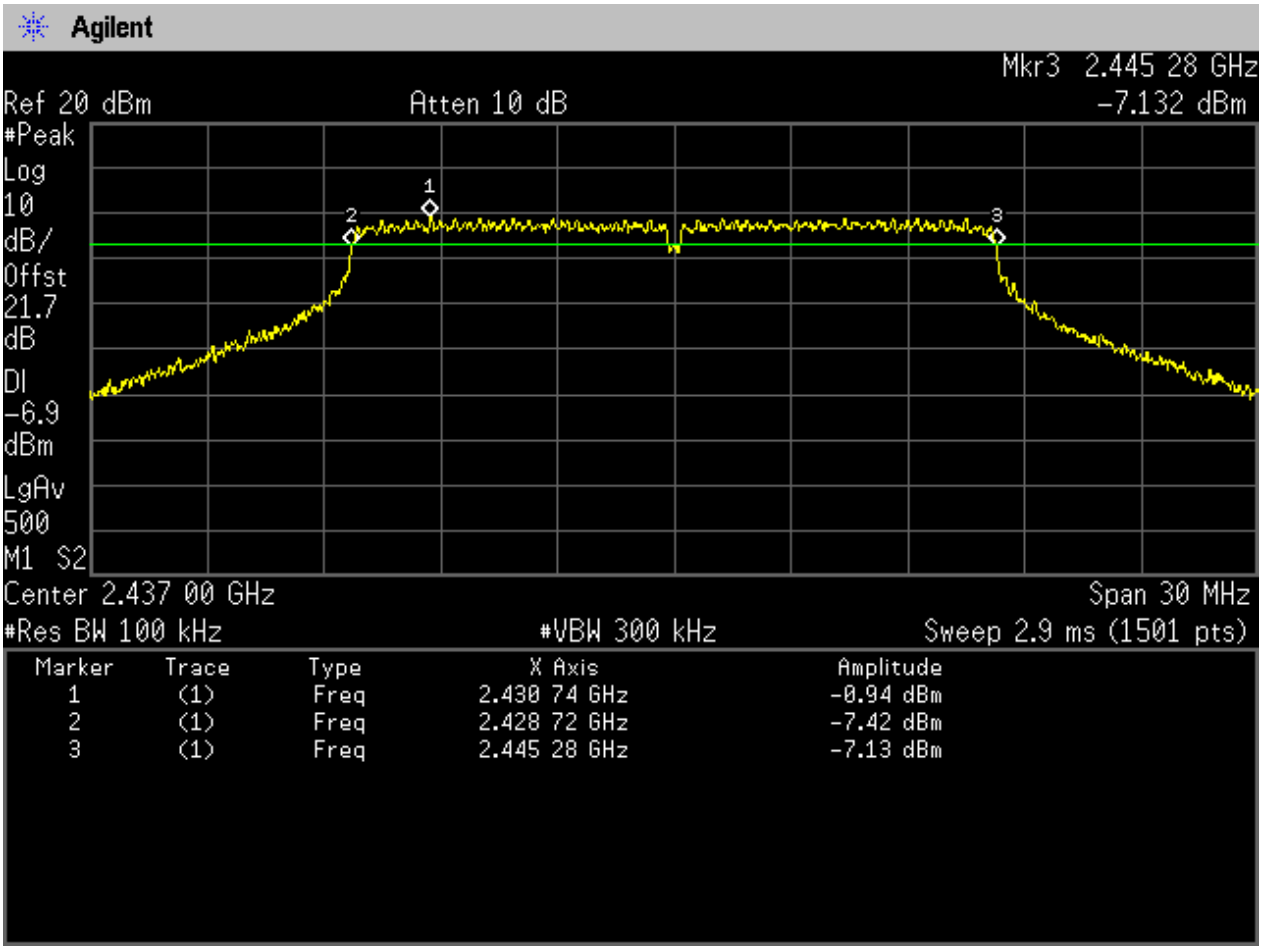

2.1211Gd/6_T@1+2

2.12.1 Ant 1

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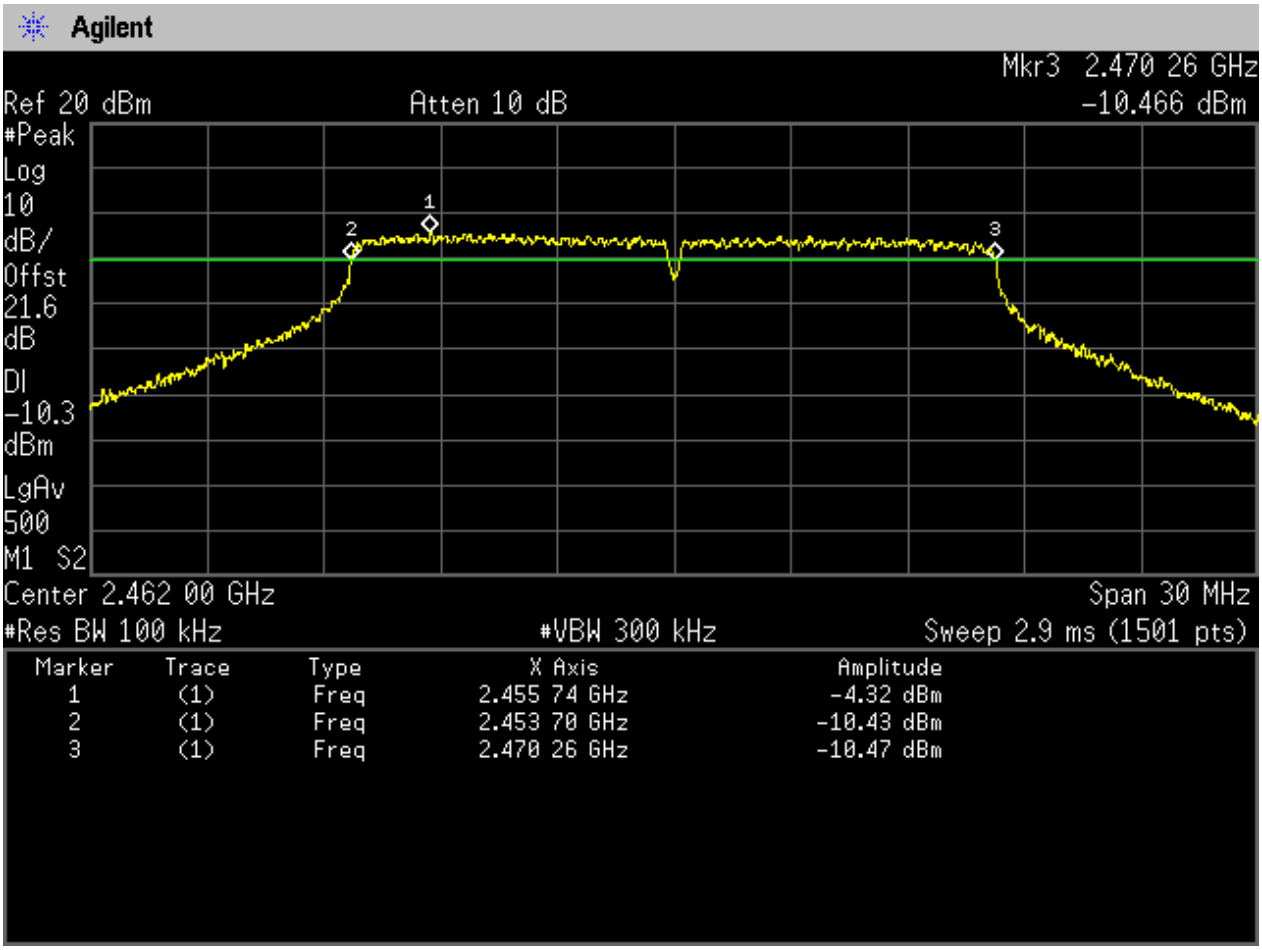

2.12.2 Ant 2

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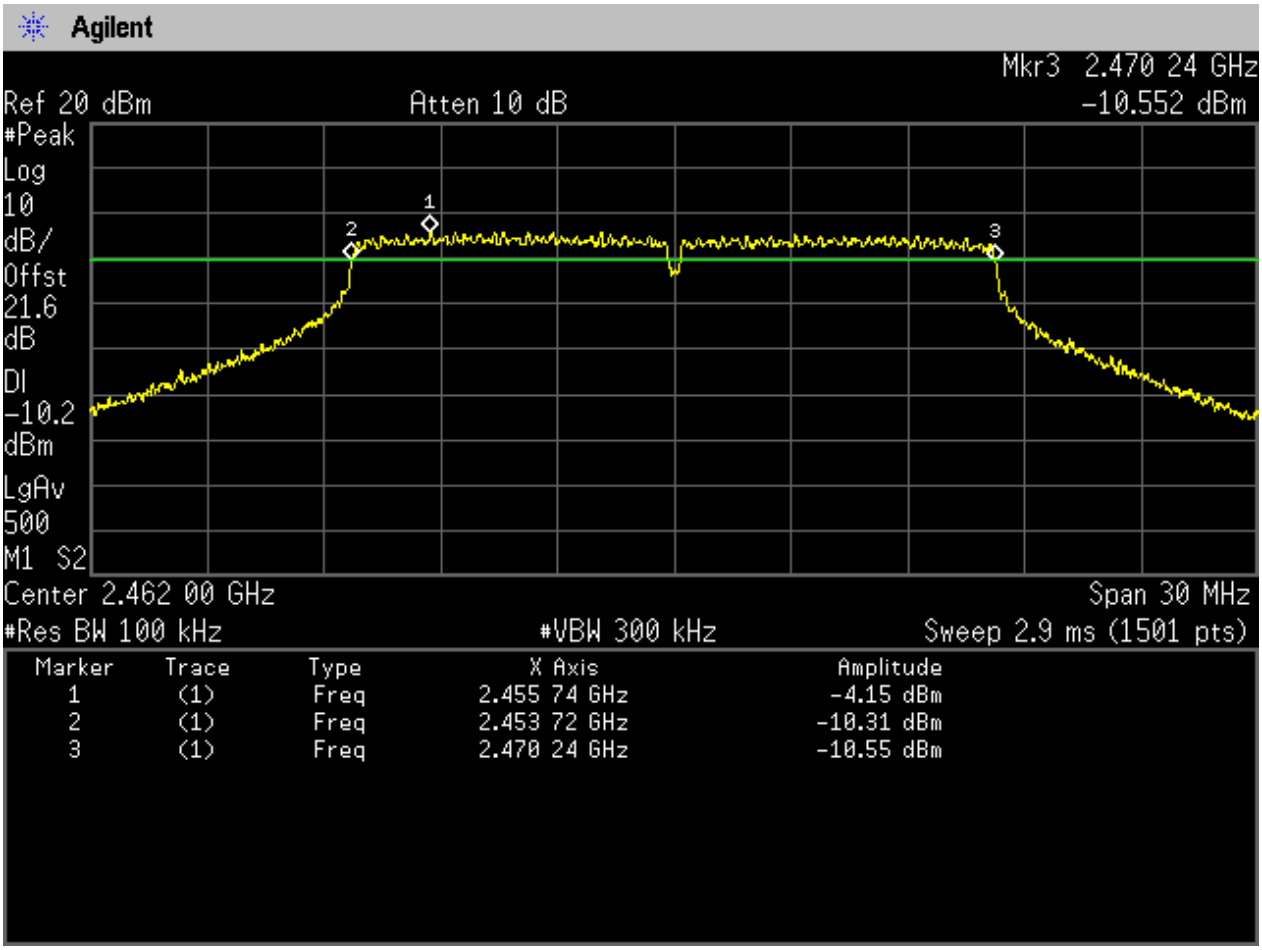

2.1311N20/0_B@1

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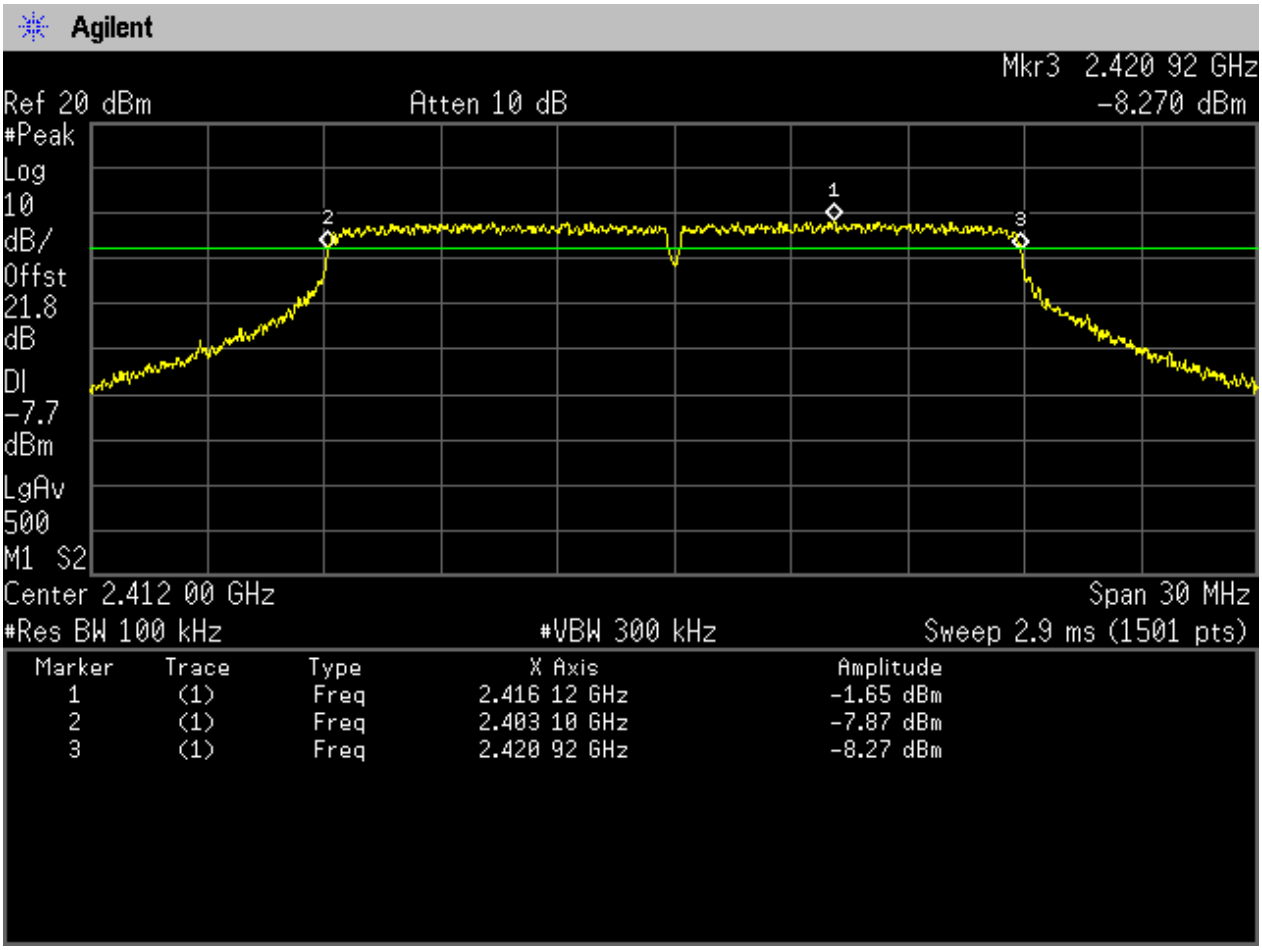

2.1411N20/0_M@1

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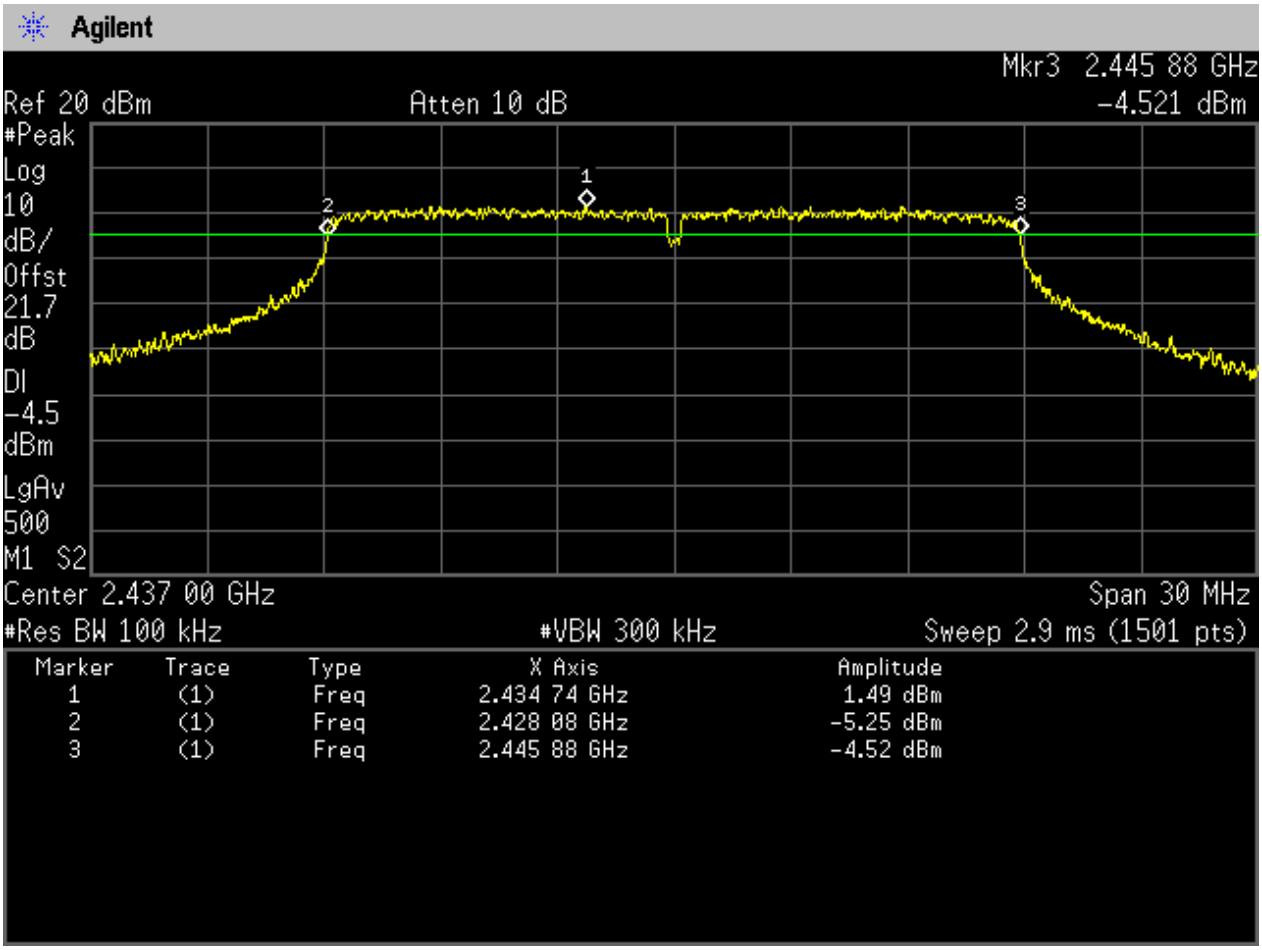

2.1511N20/0_T@1

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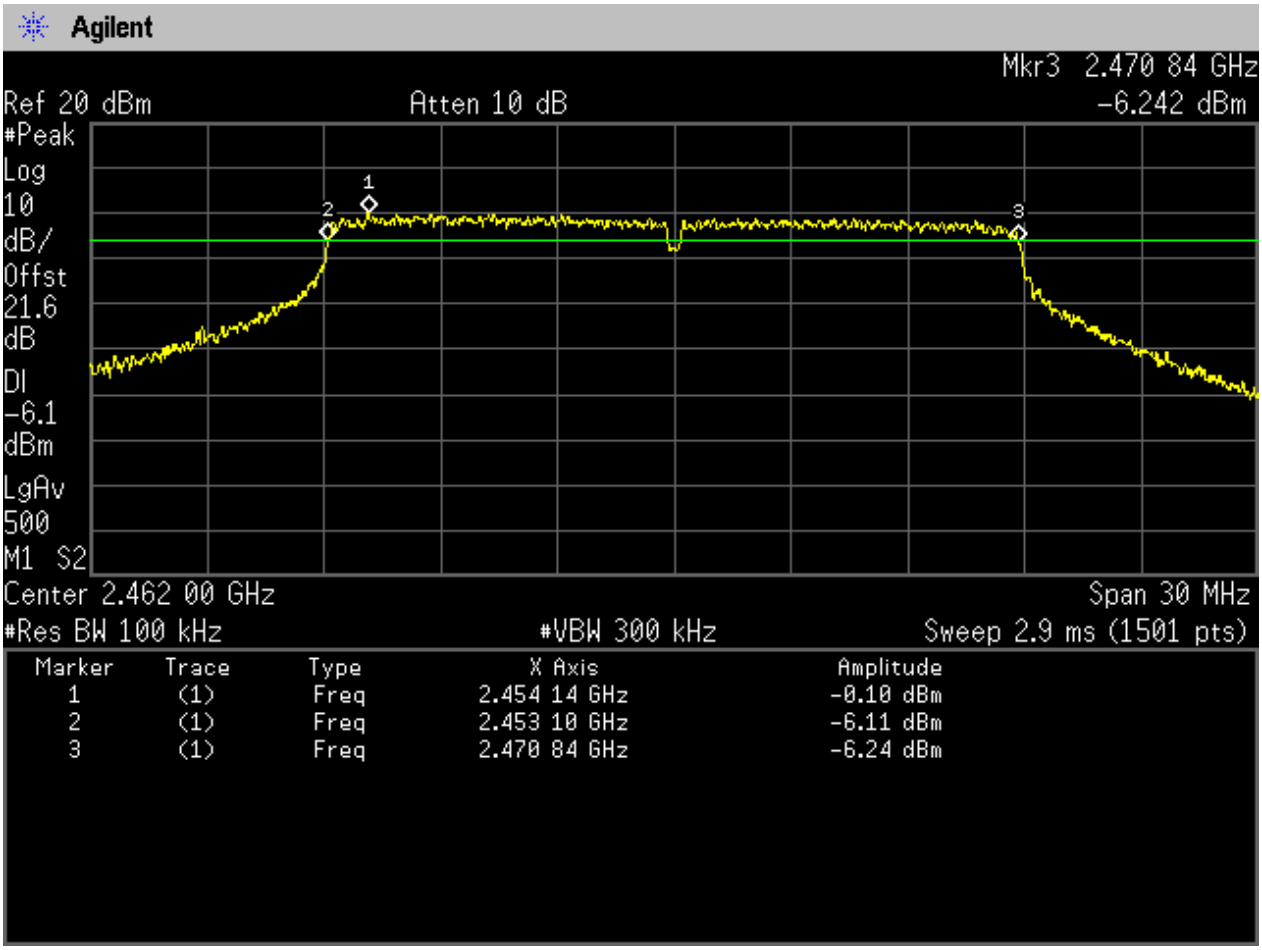

2.1611N20m/8_B@1+2

2.16.1 Ant 1

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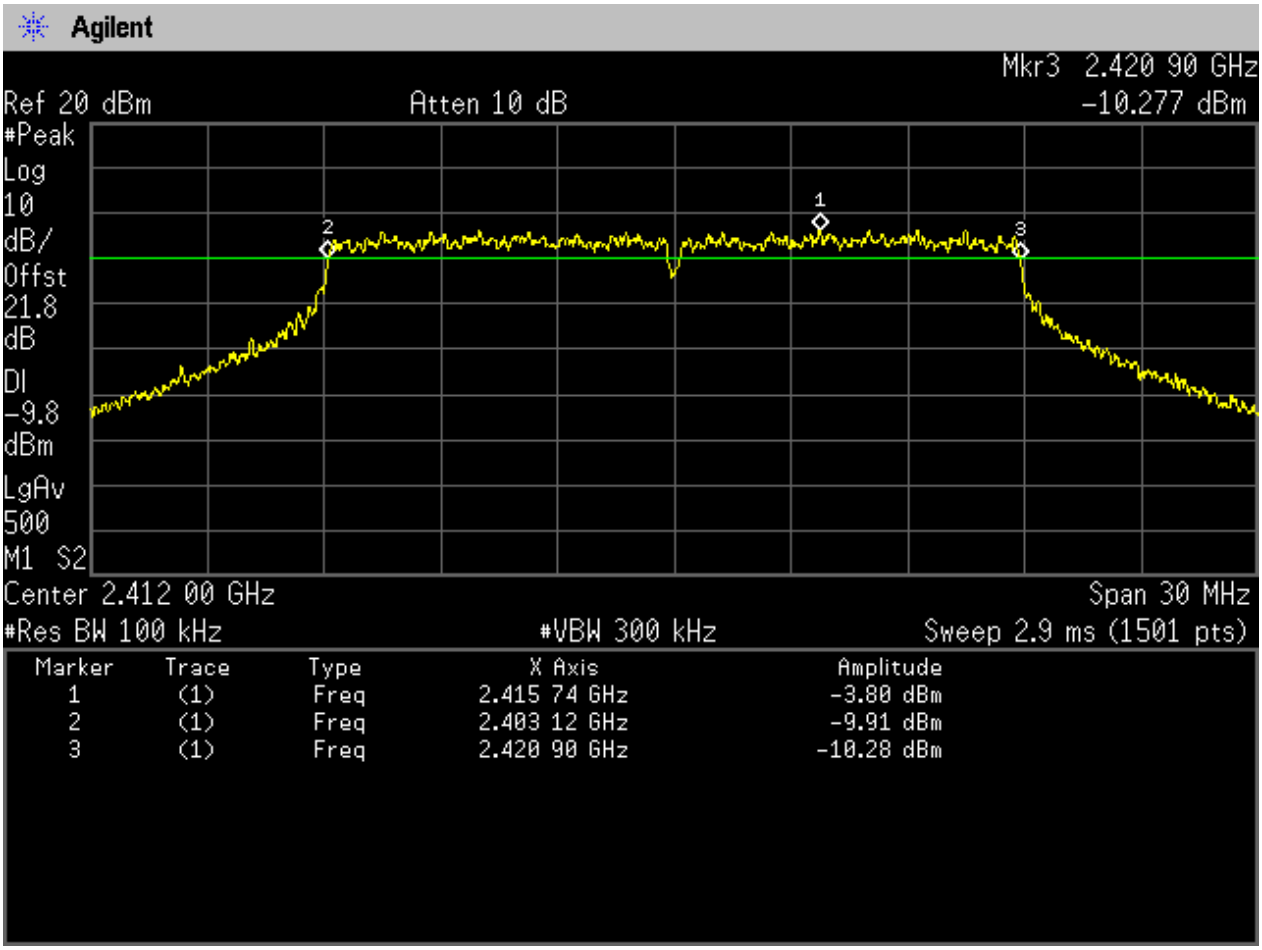

2.16.2 Ant 2

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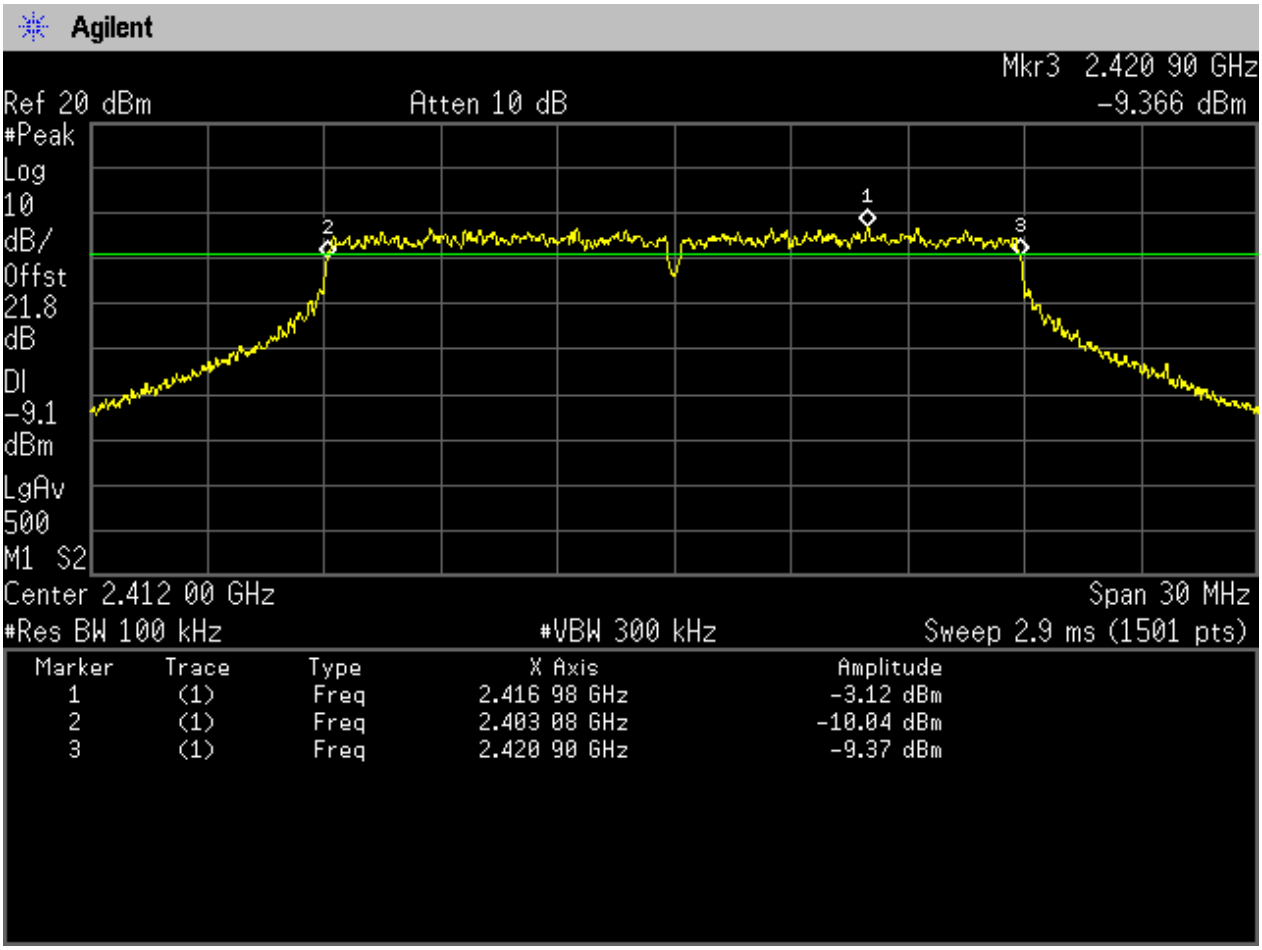

2.1711N20m/8_M@1+2

2.17.1 Ant 1

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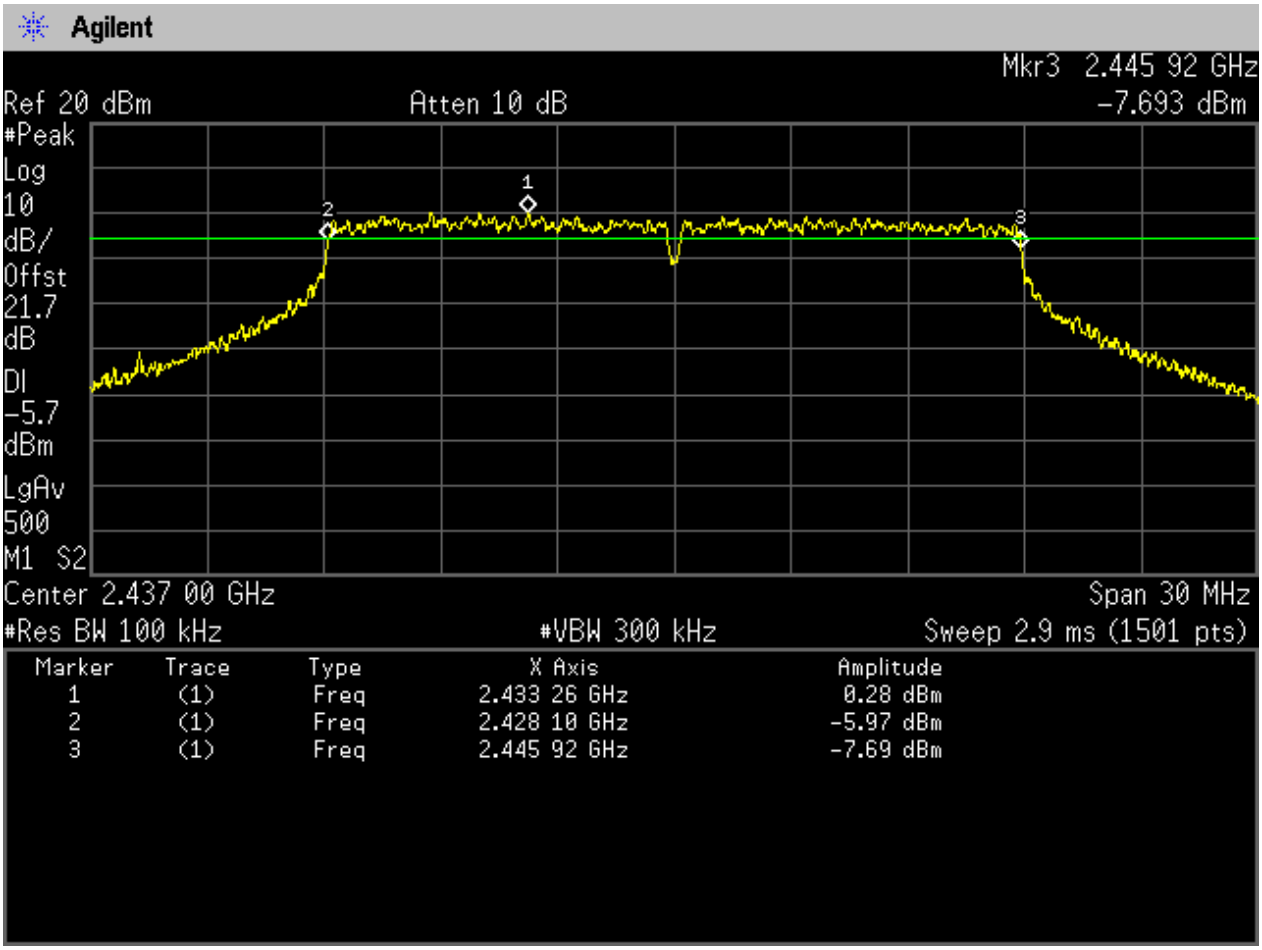

2.17.2 Ant 2

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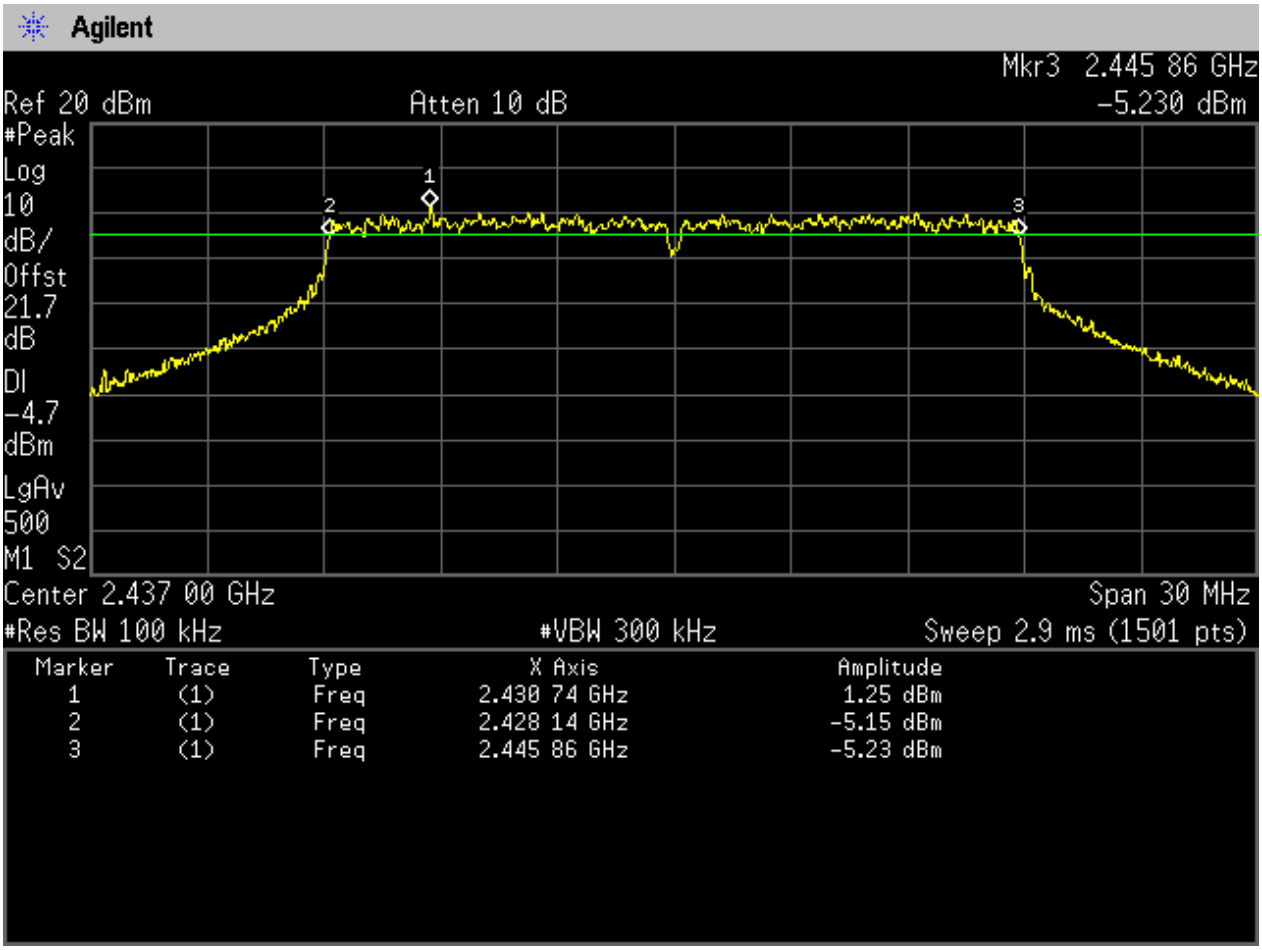

2.1811N20m/8_T@1+2

2.18.1 Ant 1

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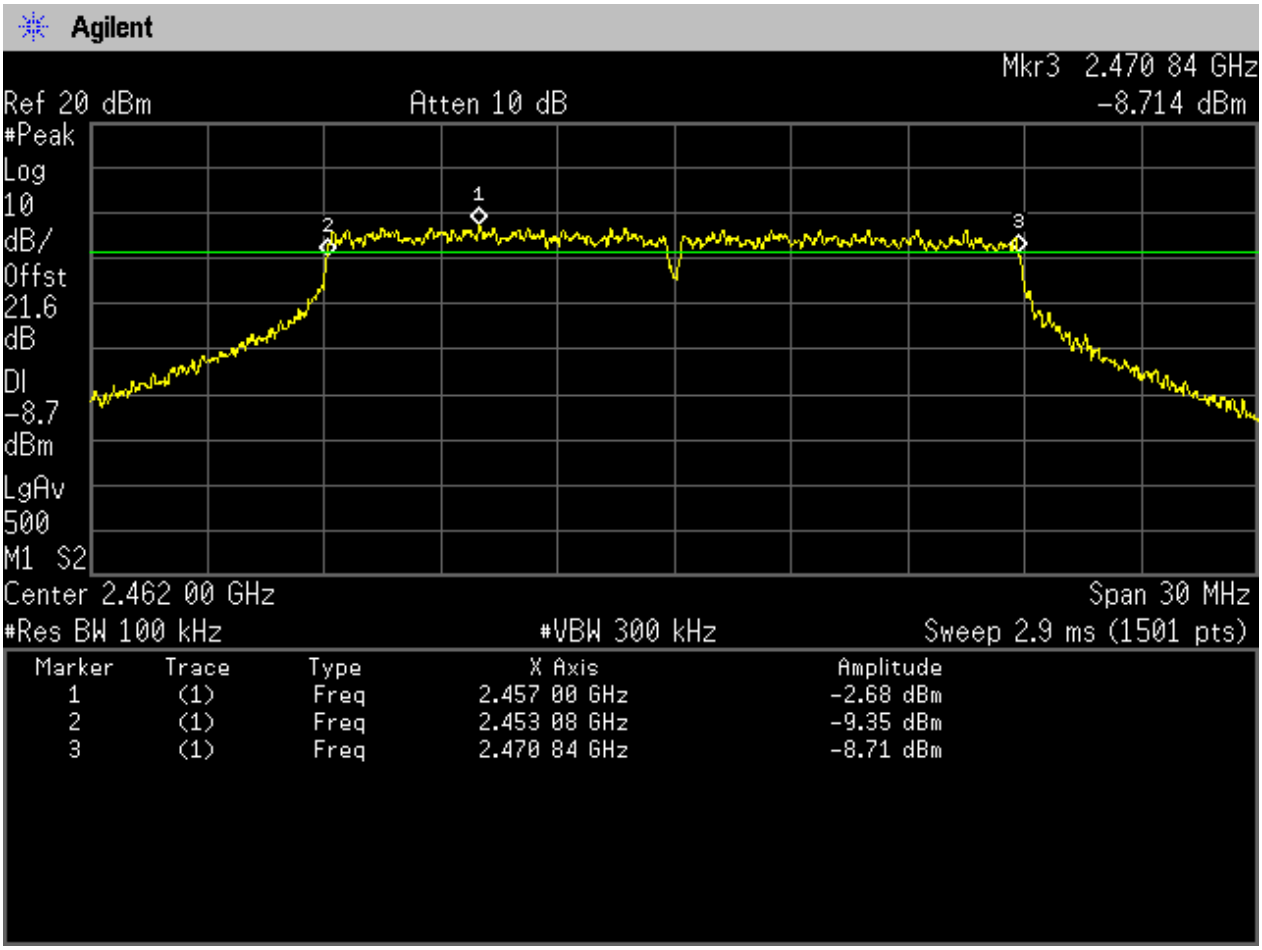

2.18.2 Ant 2

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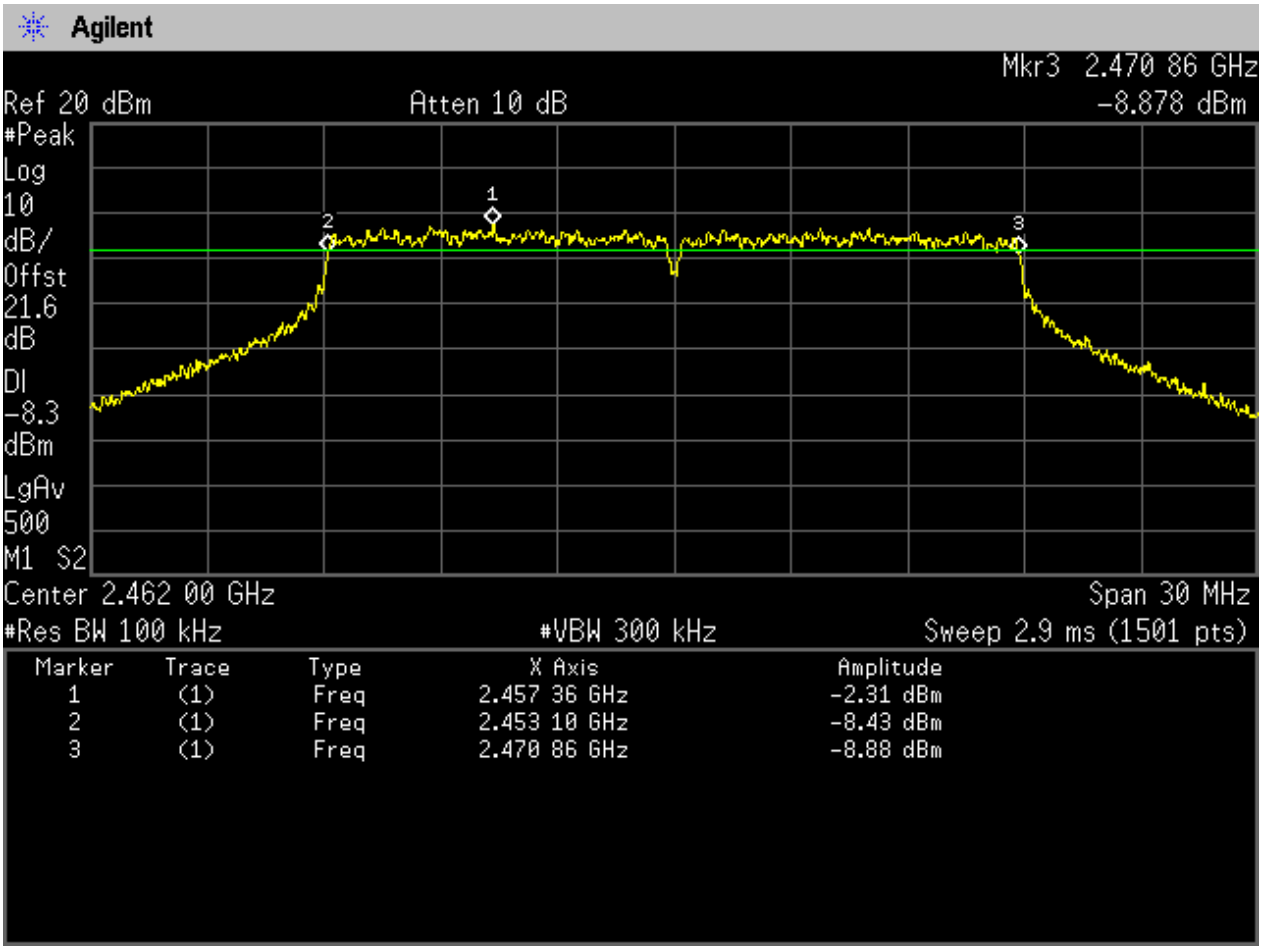

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Appendix B: Occupied Bandwidth

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For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

1 Result Table

EUT Conf.	Ant.	Occupied Bandwidth [MHz]	Verdict
11B/1_B@1	Ant 1	13.96747	Pass
11B/1_M@1	Ant 1	13.82602	Pass
11B/1_T@1	Ant 1	13.79688	Pass
11Bd/1_B@1+2	Ant 1	13.81503	Pass
	Ant 2	13.80807	Pass
11Bd/1_M@1+2	Ant 1	13.75635	Pass
	Ant 2	13.80507	Pass
11Bd/1_T@1+2	Ant 1	13.74011	Pass
	Ant 2	13.81836	Pass
11G/6_B@1	Ant 1	16.48994	Pass
11G/6_M@1	Ant 1	16.48078	Pass
11G/6_T@1	Ant 1	16.47928	Pass
11Gd/6_B@1+2	Ant 1	16.48201	Pass
	Ant 2	16.48257	Pass
11Gd/6_M@1+2	Ant 1	16.47868	Pass
	Ant 2	16.48282	Pass
11Gd/6_T@1+2	Ant 1	16.48476	Pass
	Ant 2	16.47755	Pass
11N20/0_B@1	Ant 1	17.67998	Pass
11N20/0_M@1	Ant 1	17.67307	Pass
11N20/0_T@1	Ant 1	17.67976	Pass
11N20m/8_B@1+2	Ant 1	17.67428	Pass
	Ant 2	17.6738	Pass
11N20m/8_M@1+2	Ant 1	17.67453	Pass
	Ant 2	17.65379	Pass
11N20m/8_T@1+2	Ant 1	17.67984	Pass
	Ant 2	17.66828	Pass

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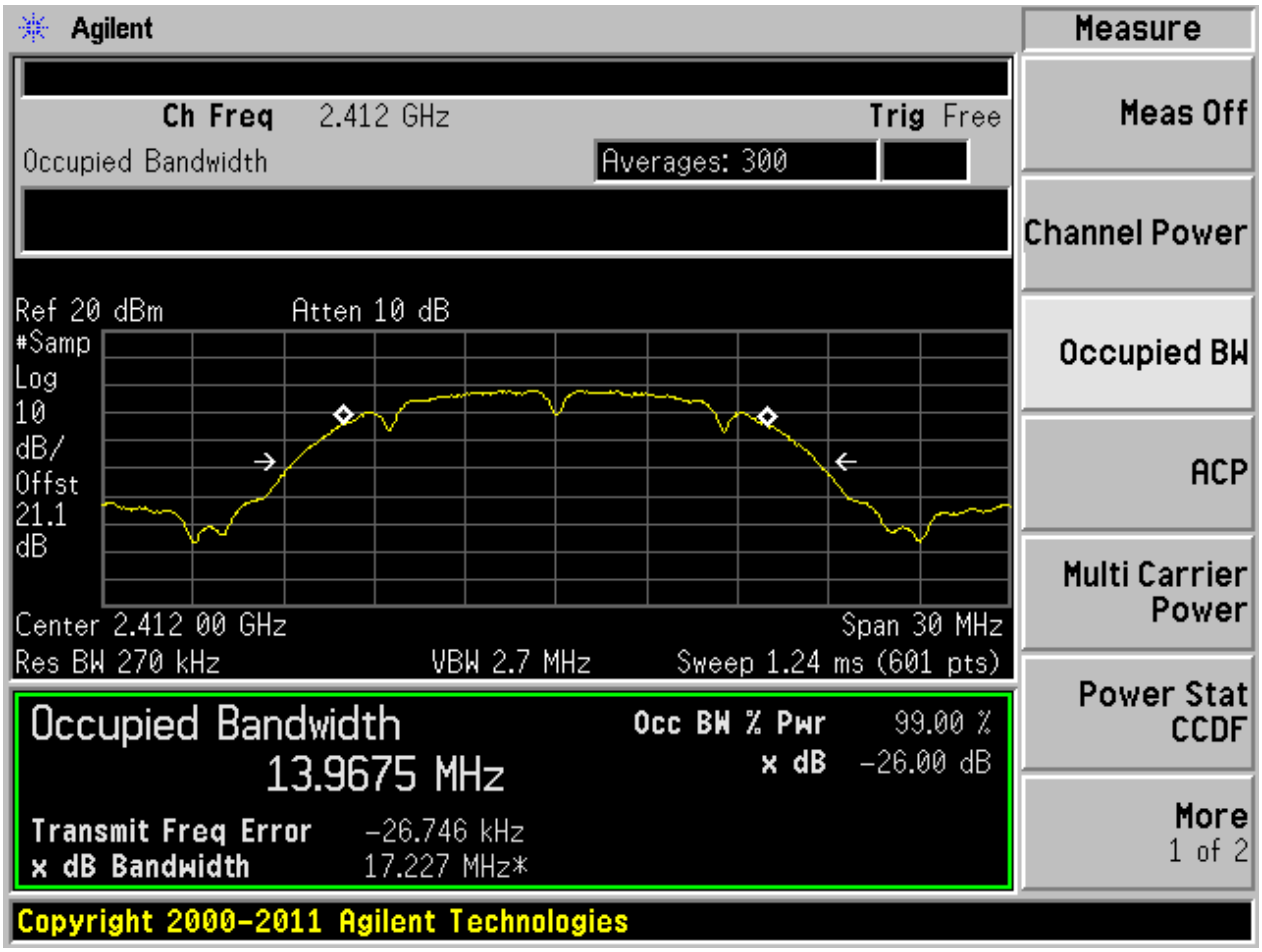
2 Test Plot

2.1 11B/1_B@1



2.2 11B/1_M@1

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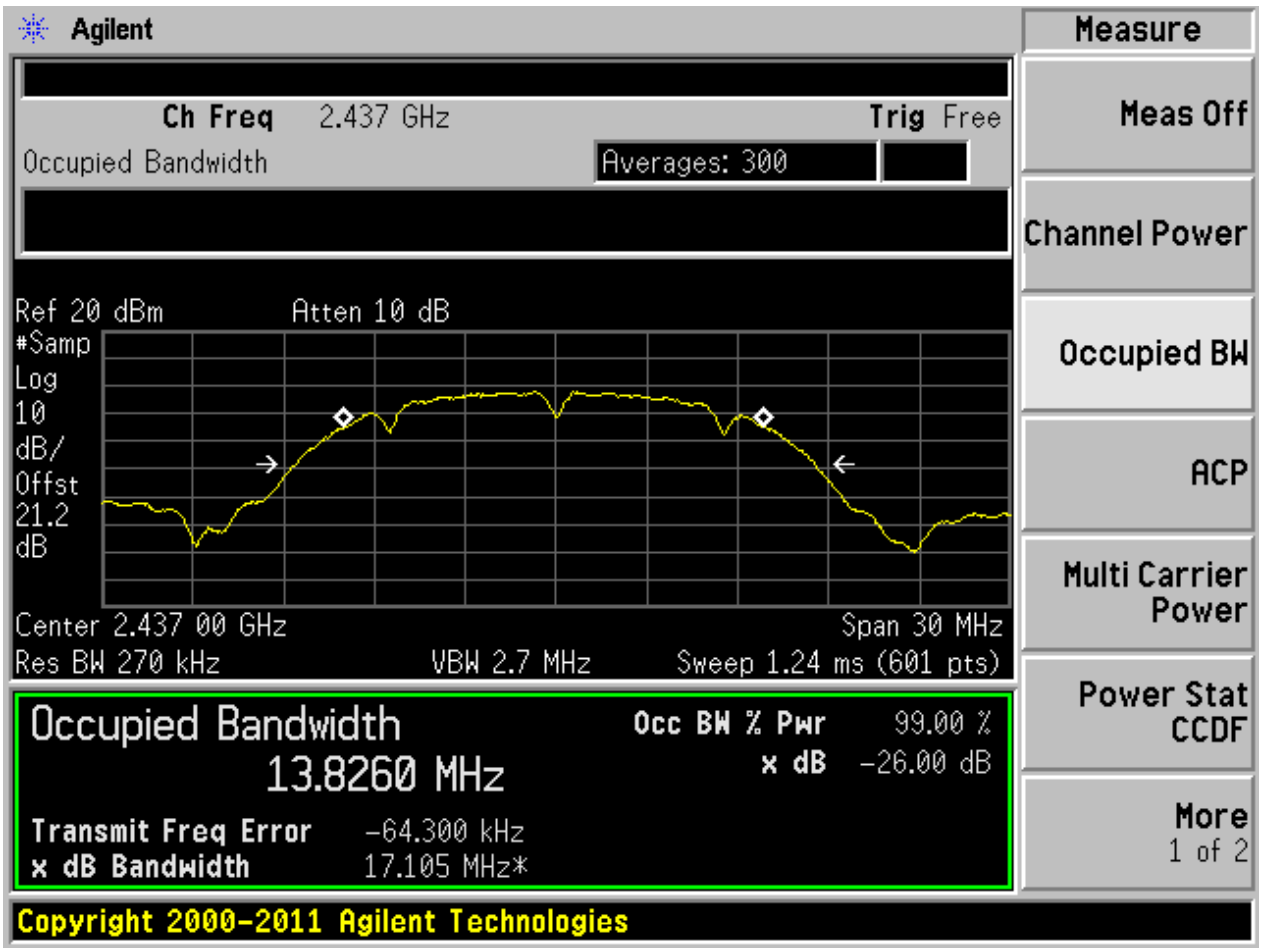

2.3 11B/1_T@1

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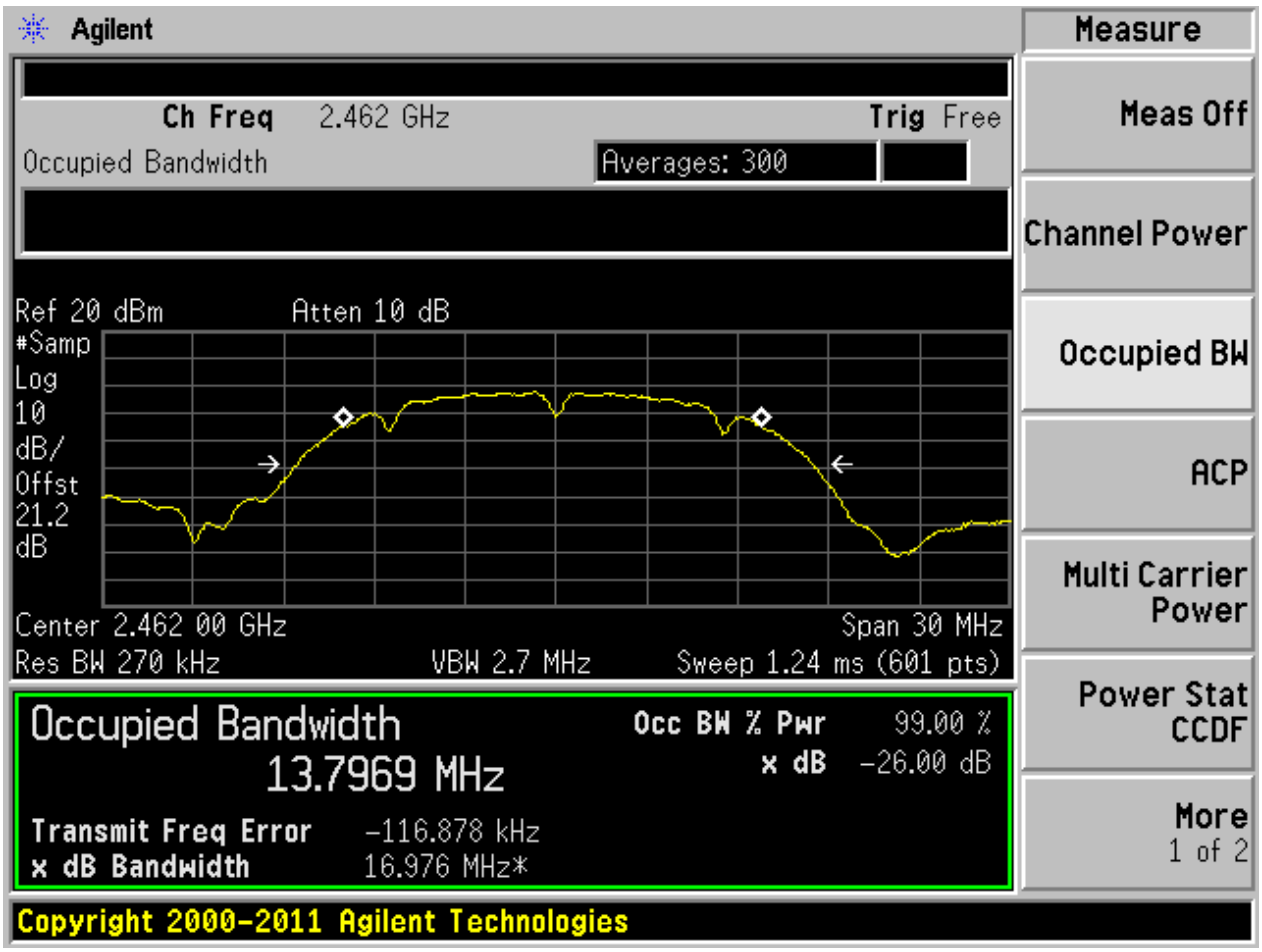

2.4 11Bd/1_B@1+2

2.4.1 Ant 1

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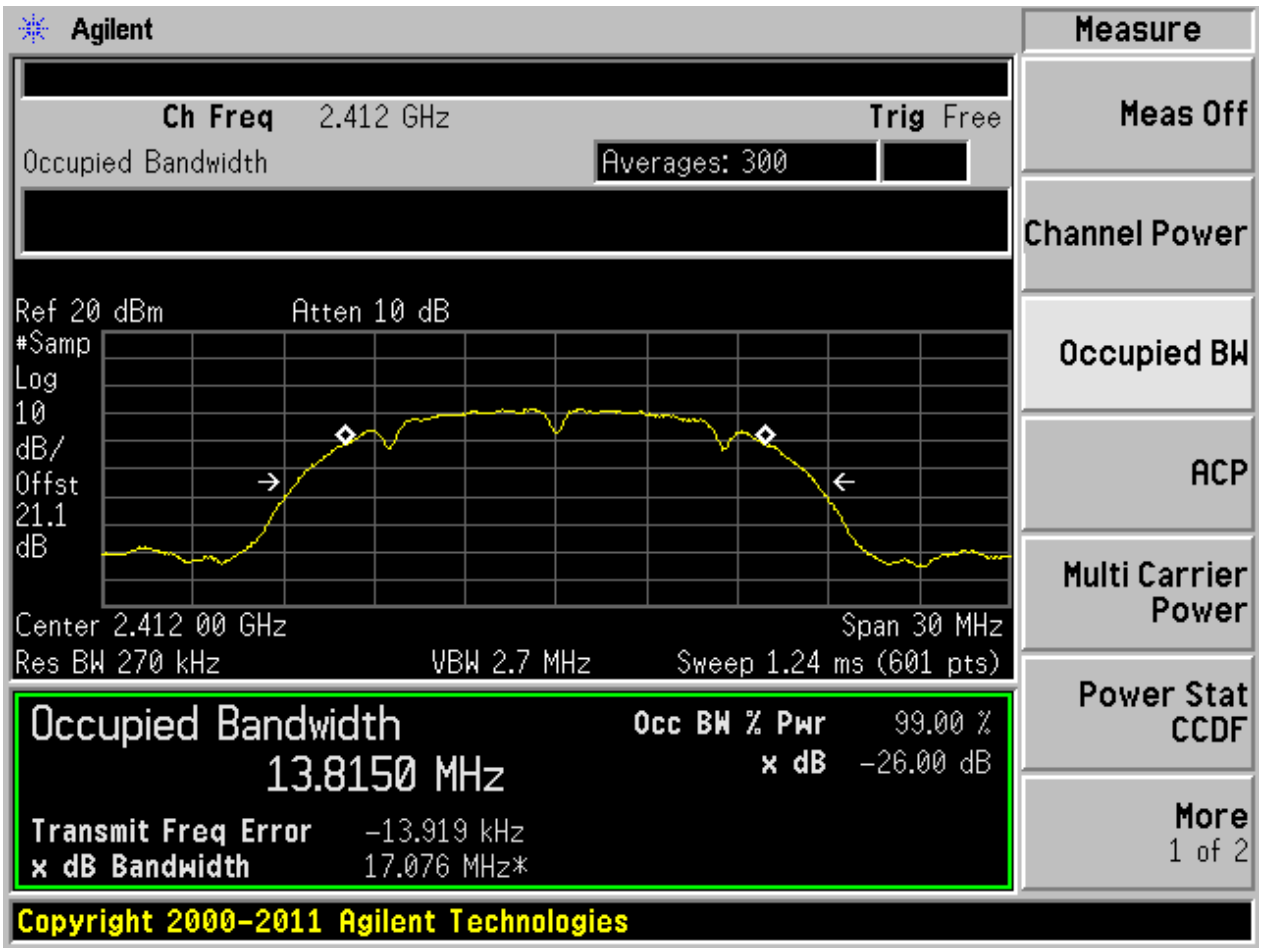

2.4.2 Ant 2

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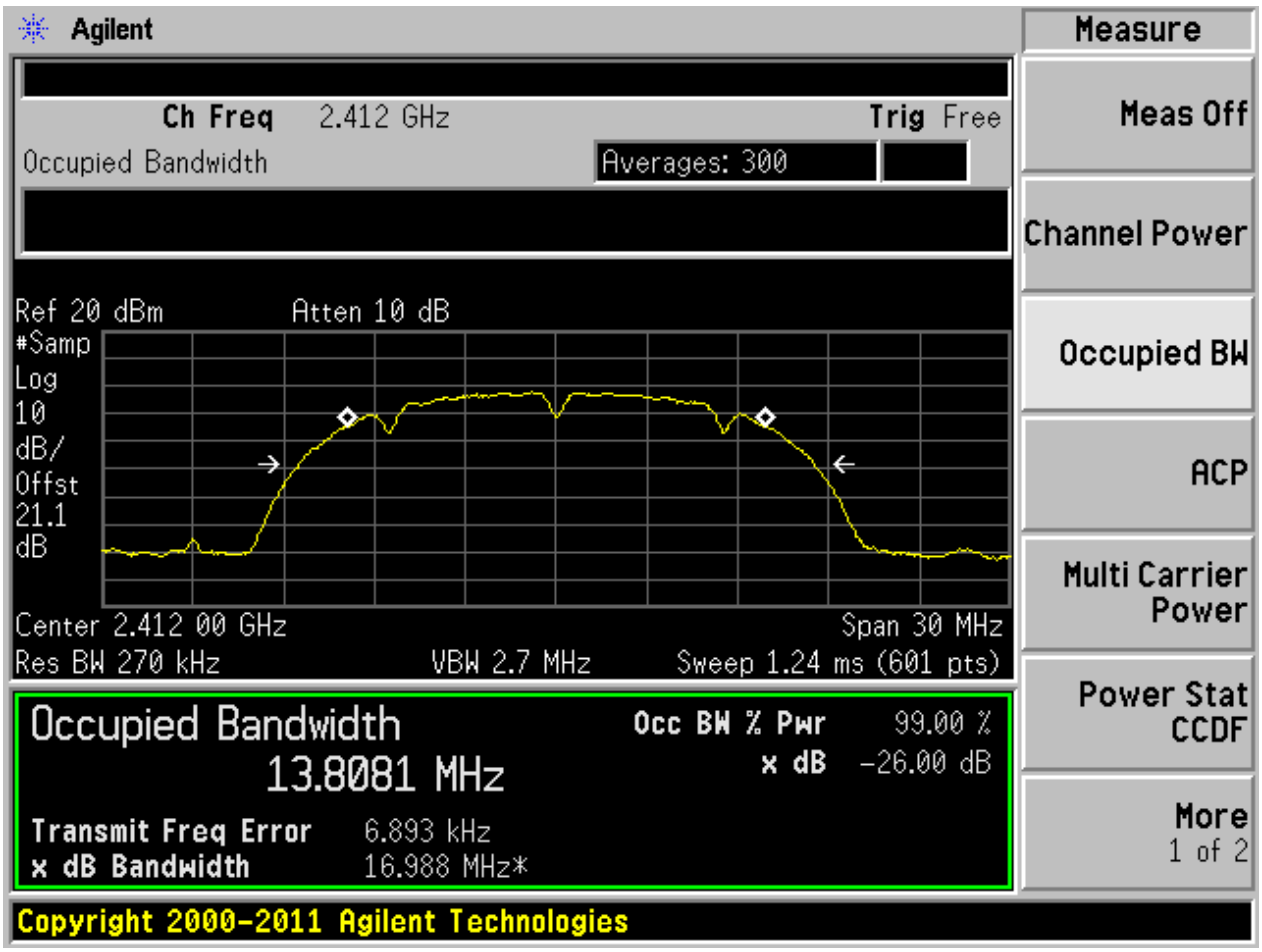

2.5 11Bd/1_M@1+2

2.5.1 Ant 1

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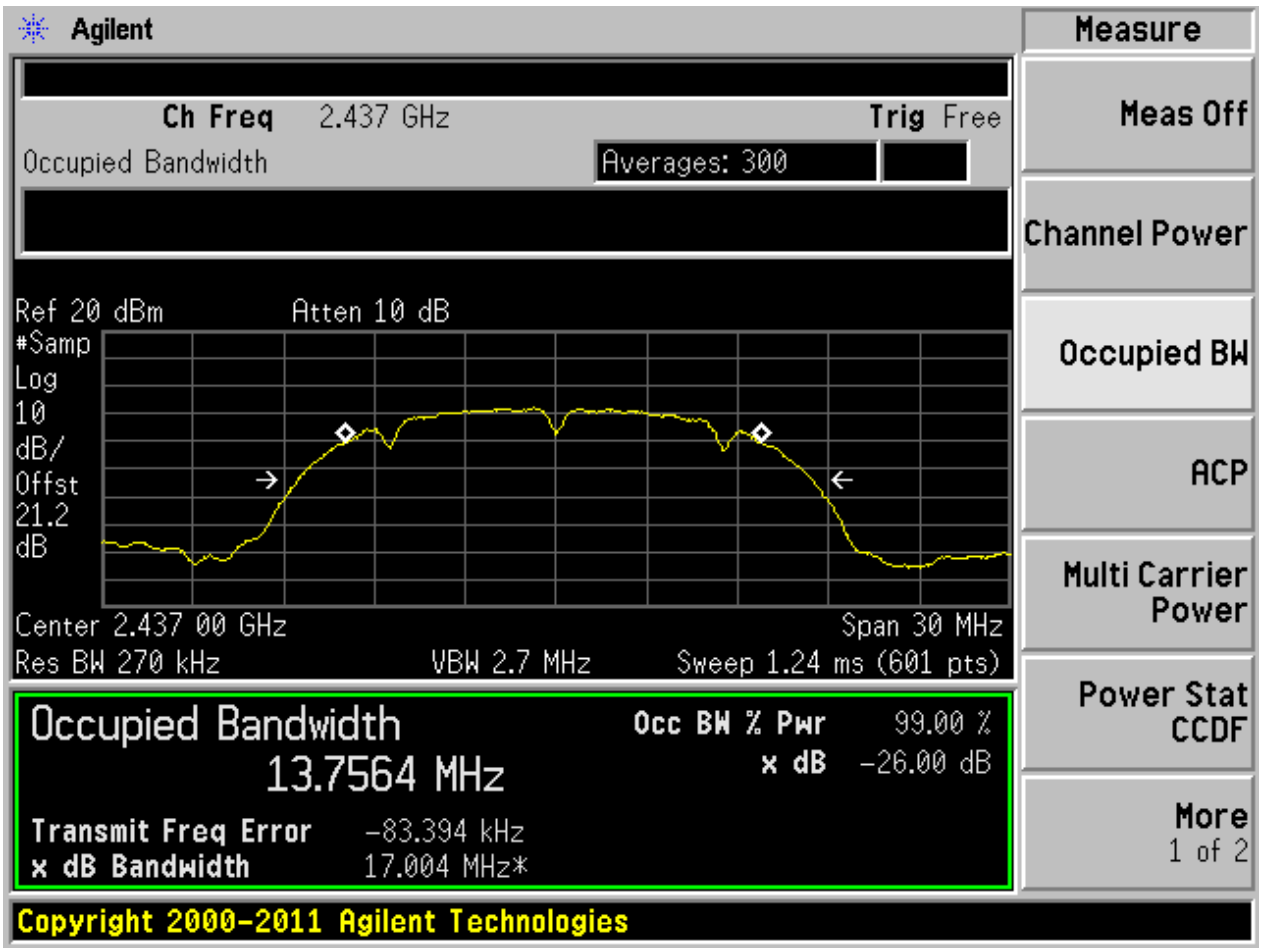

2.5.2 Ant 2

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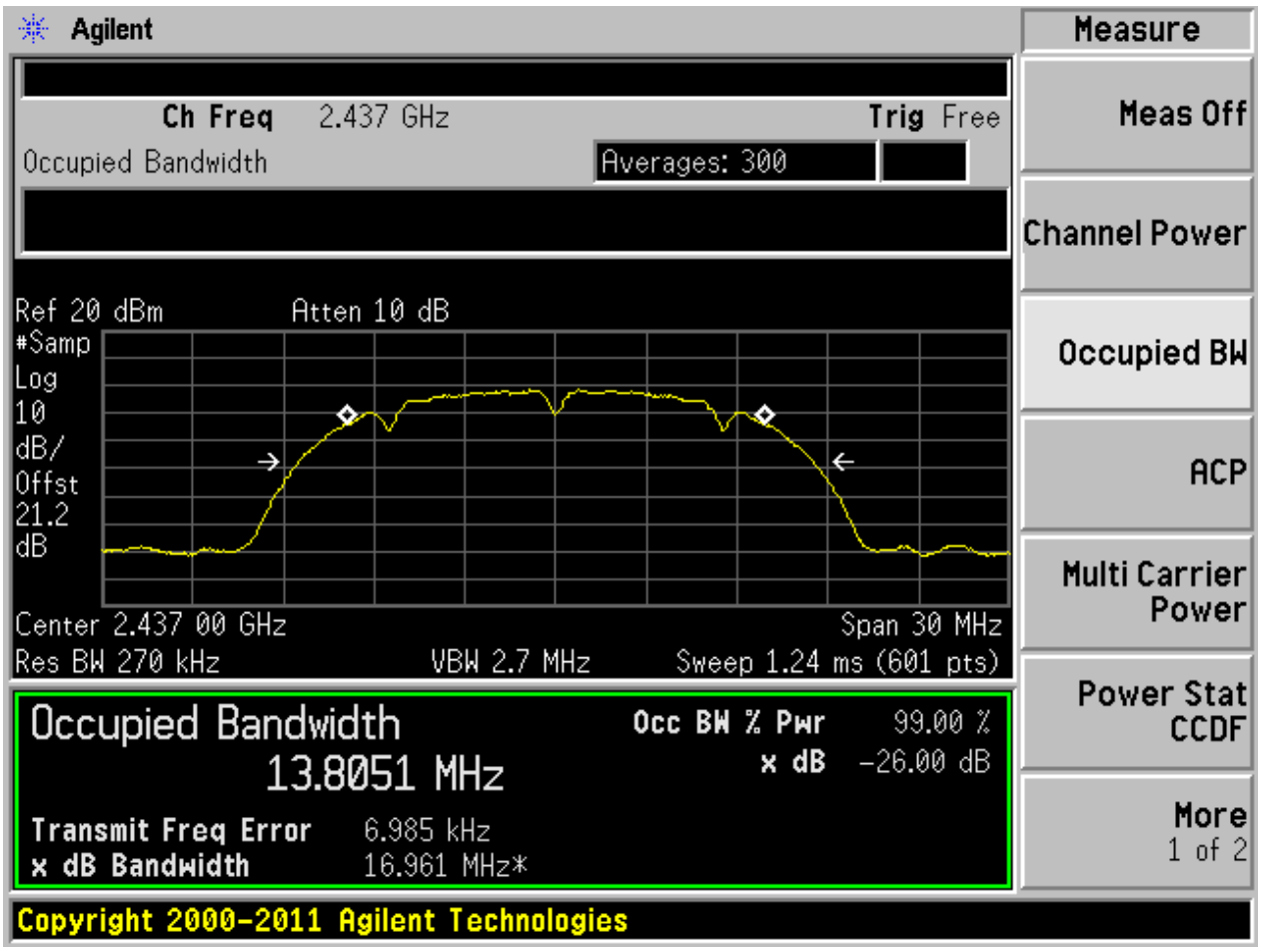

2.6 11Bd/1_T@1+2

2.6.1 Ant 1

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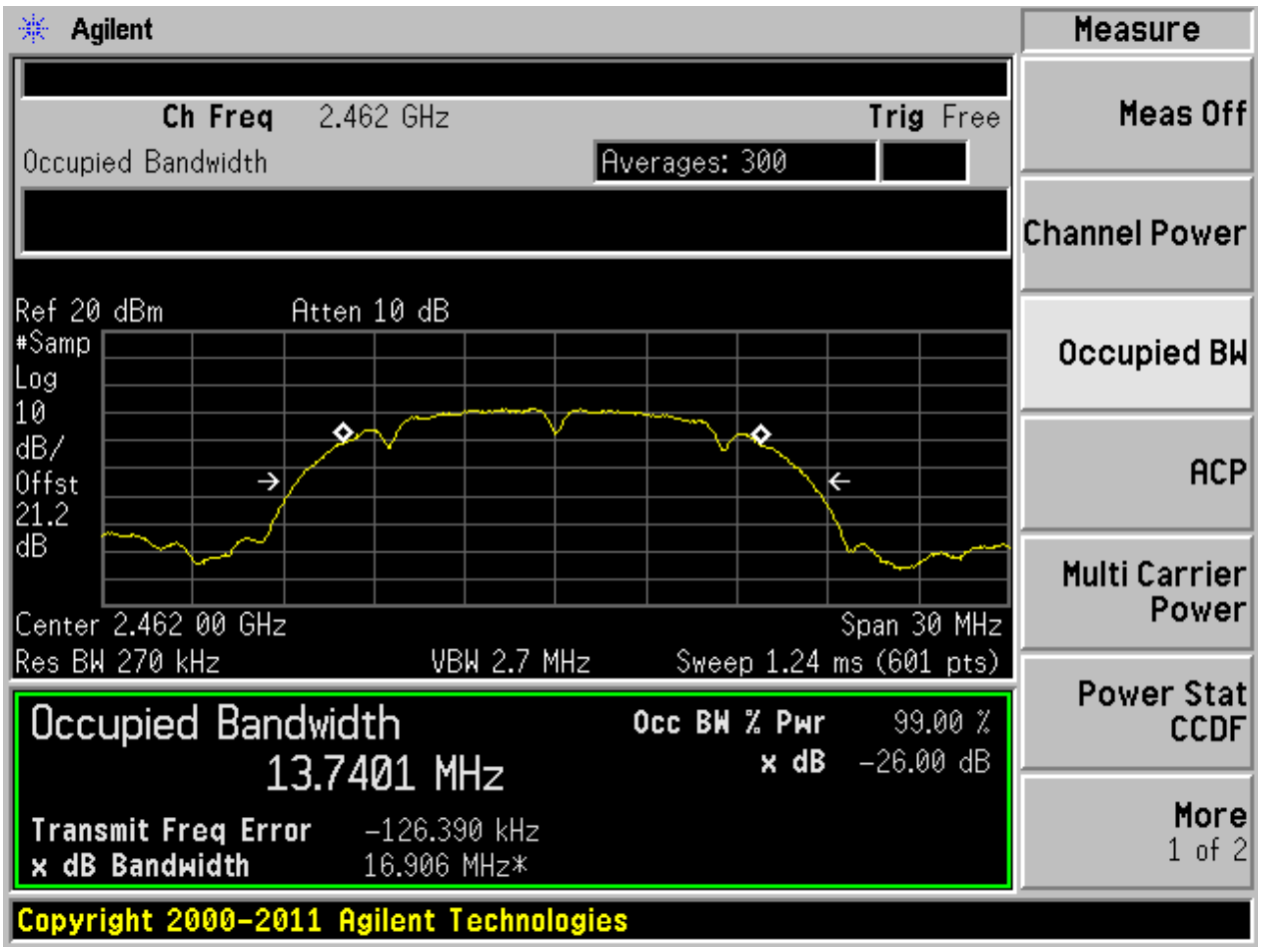

2.6.2 Ant 2

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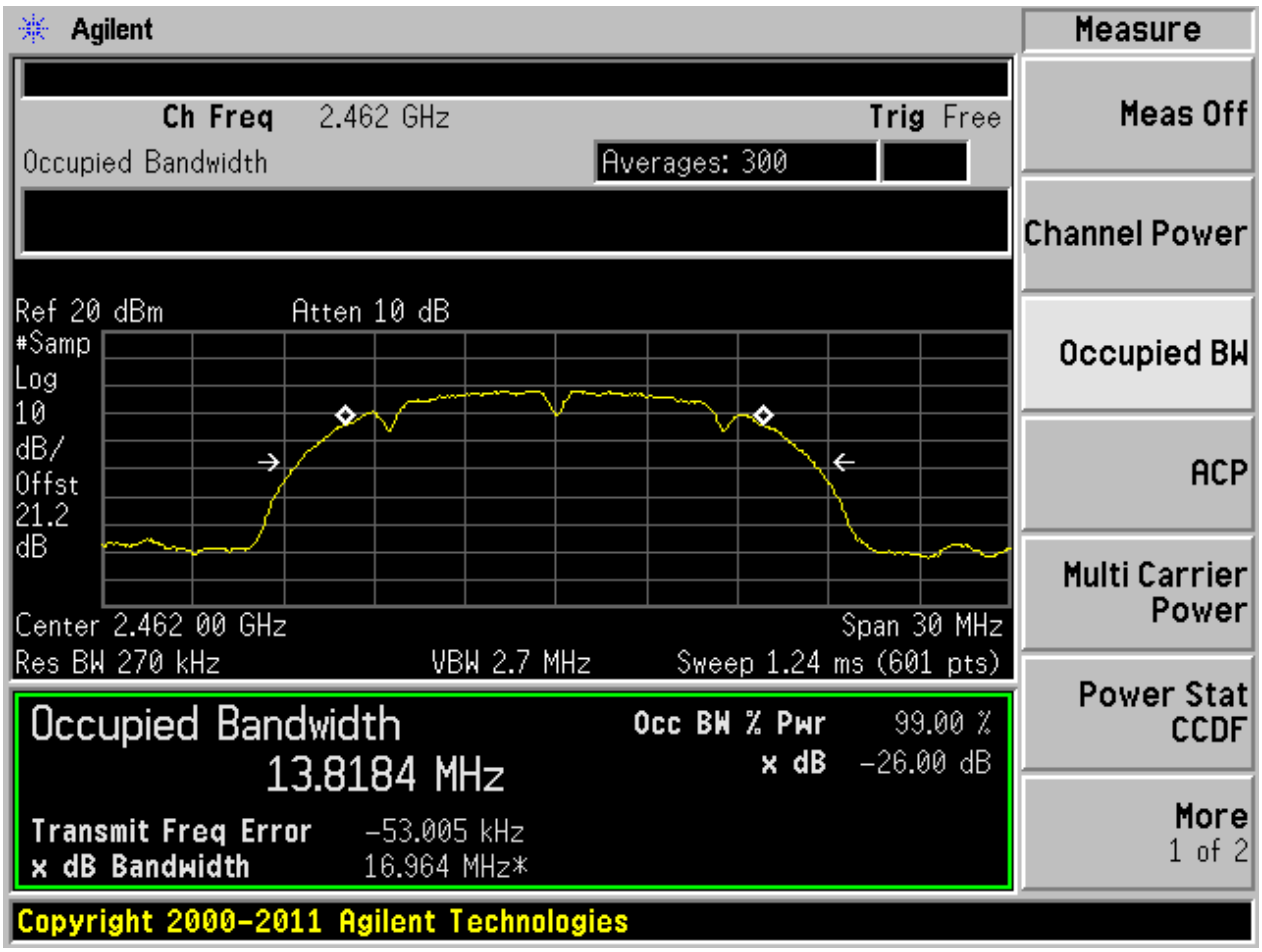

2.7 11G/6_B@1

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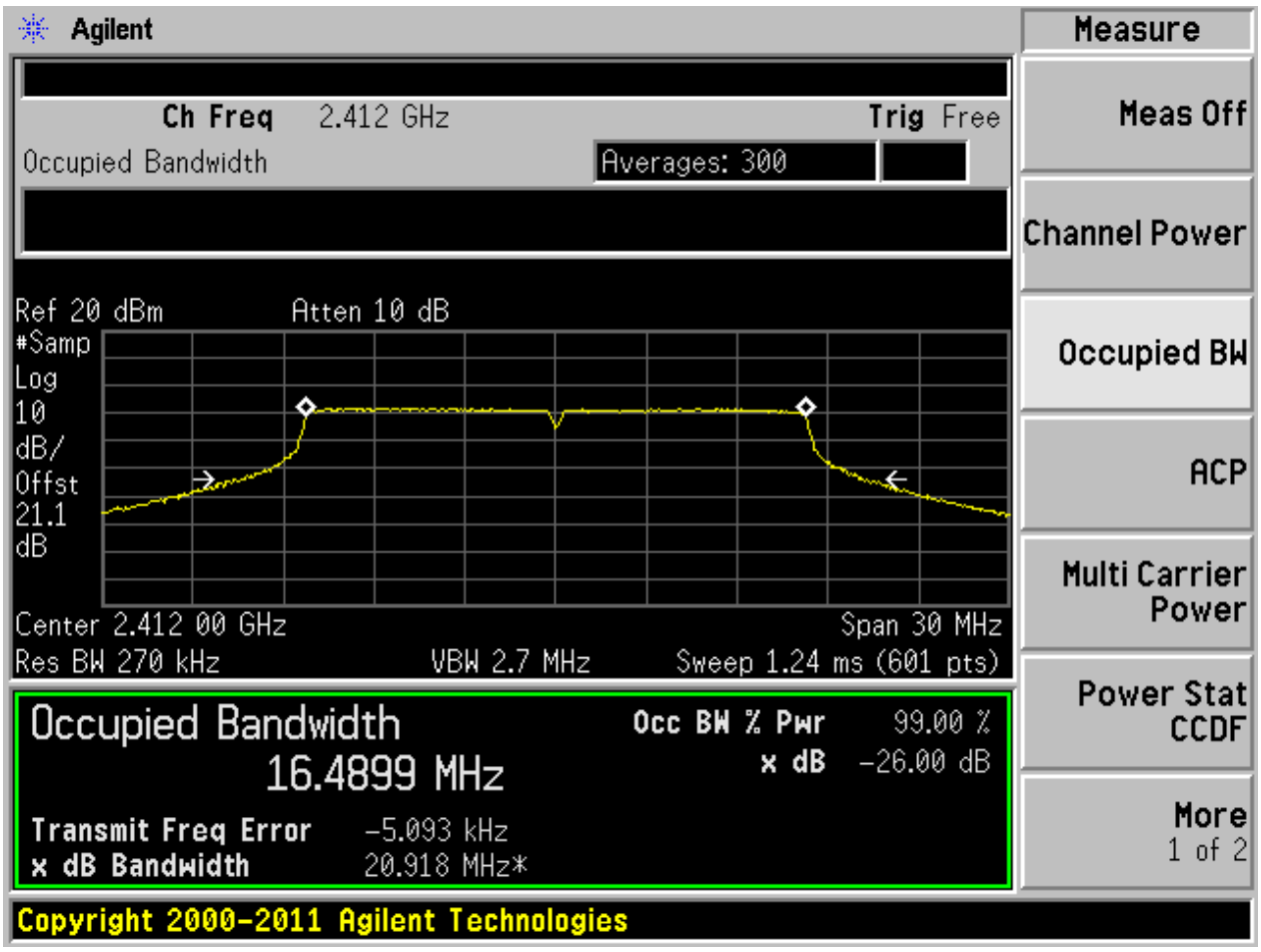

2.8 11G/6_M@1

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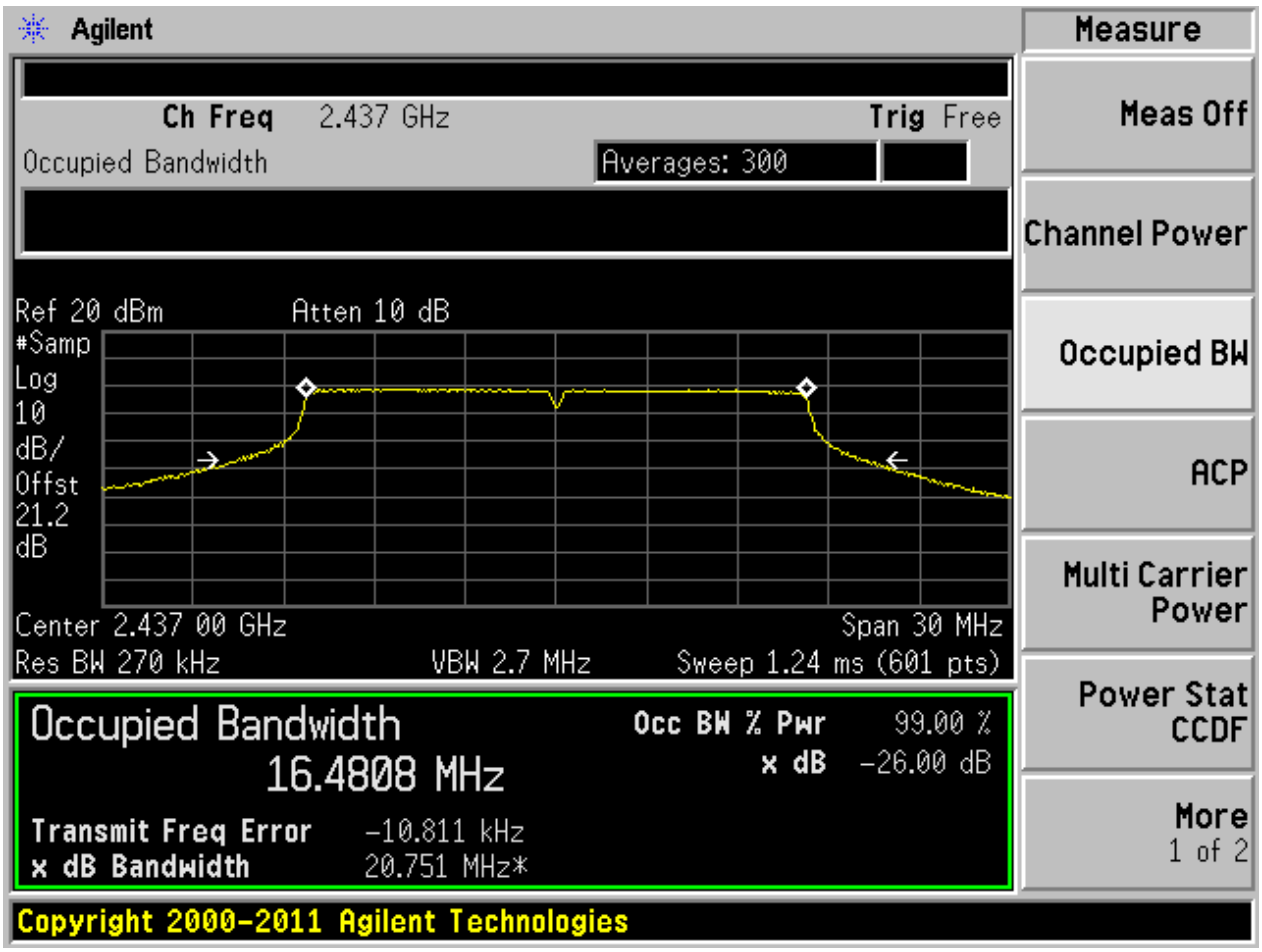

2.9 11G/6_T@1

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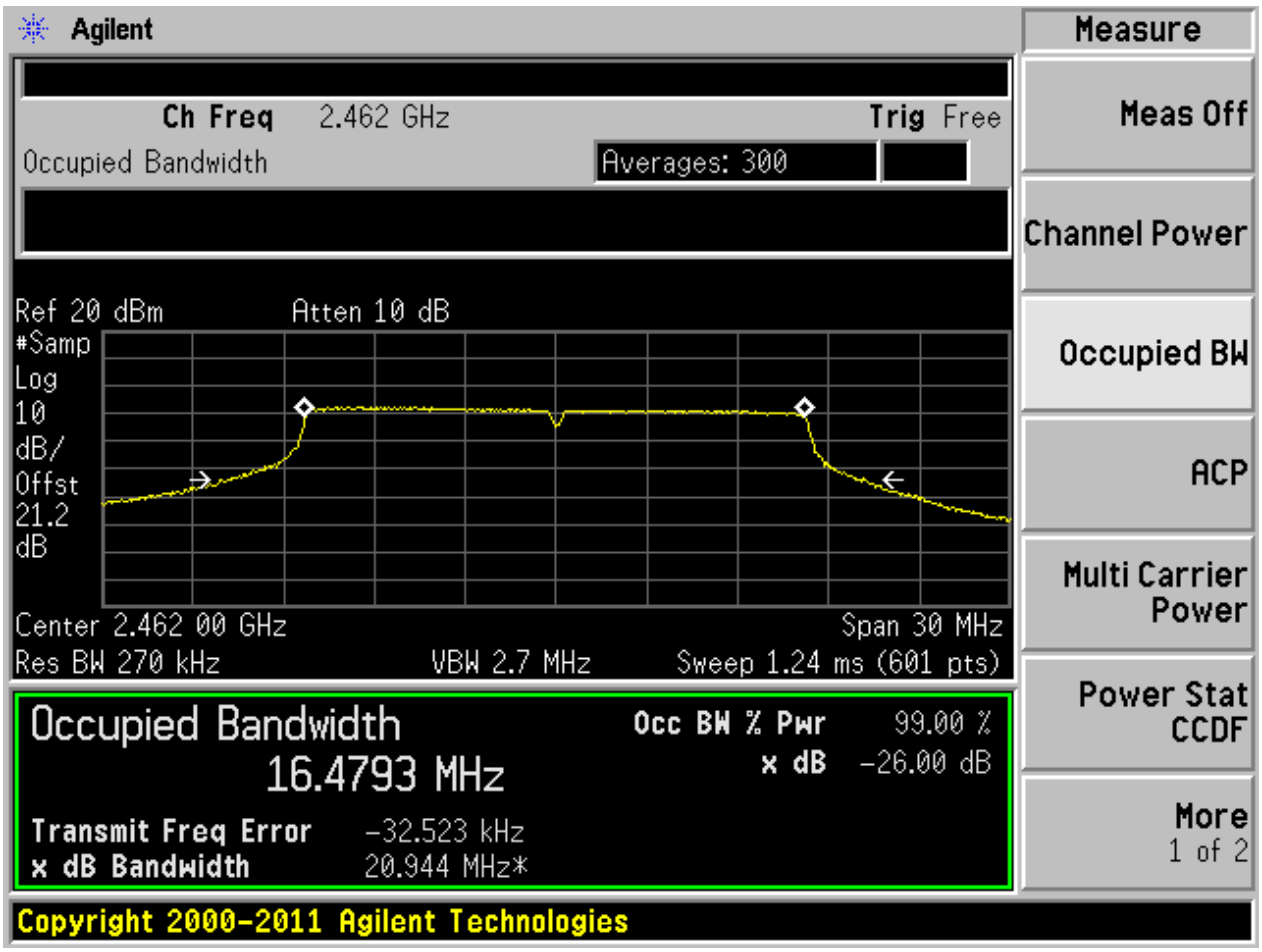

2.1011Gd/6_B@1+2

2.10.1 Ant 1

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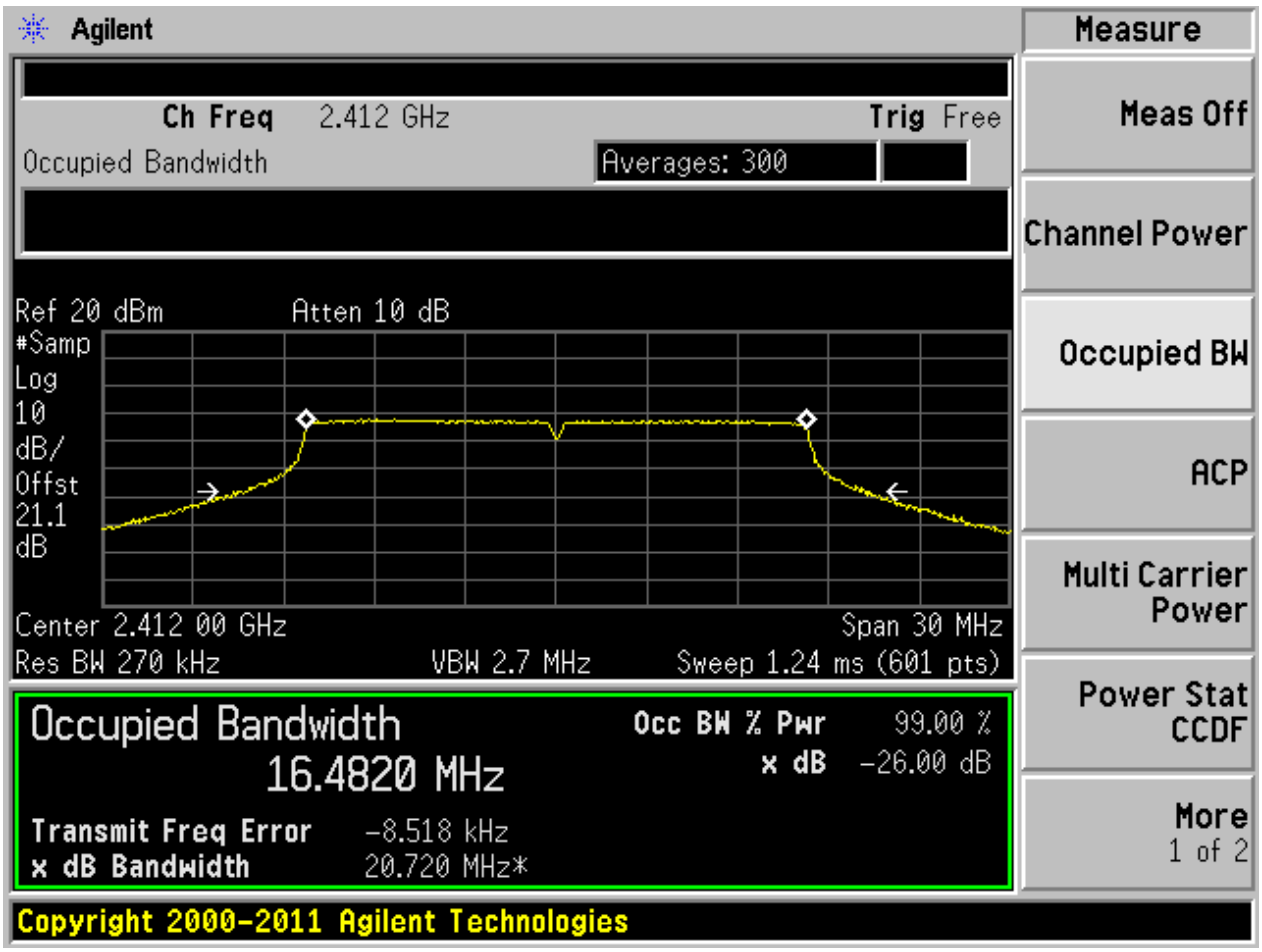

2.10.2 Ant 2

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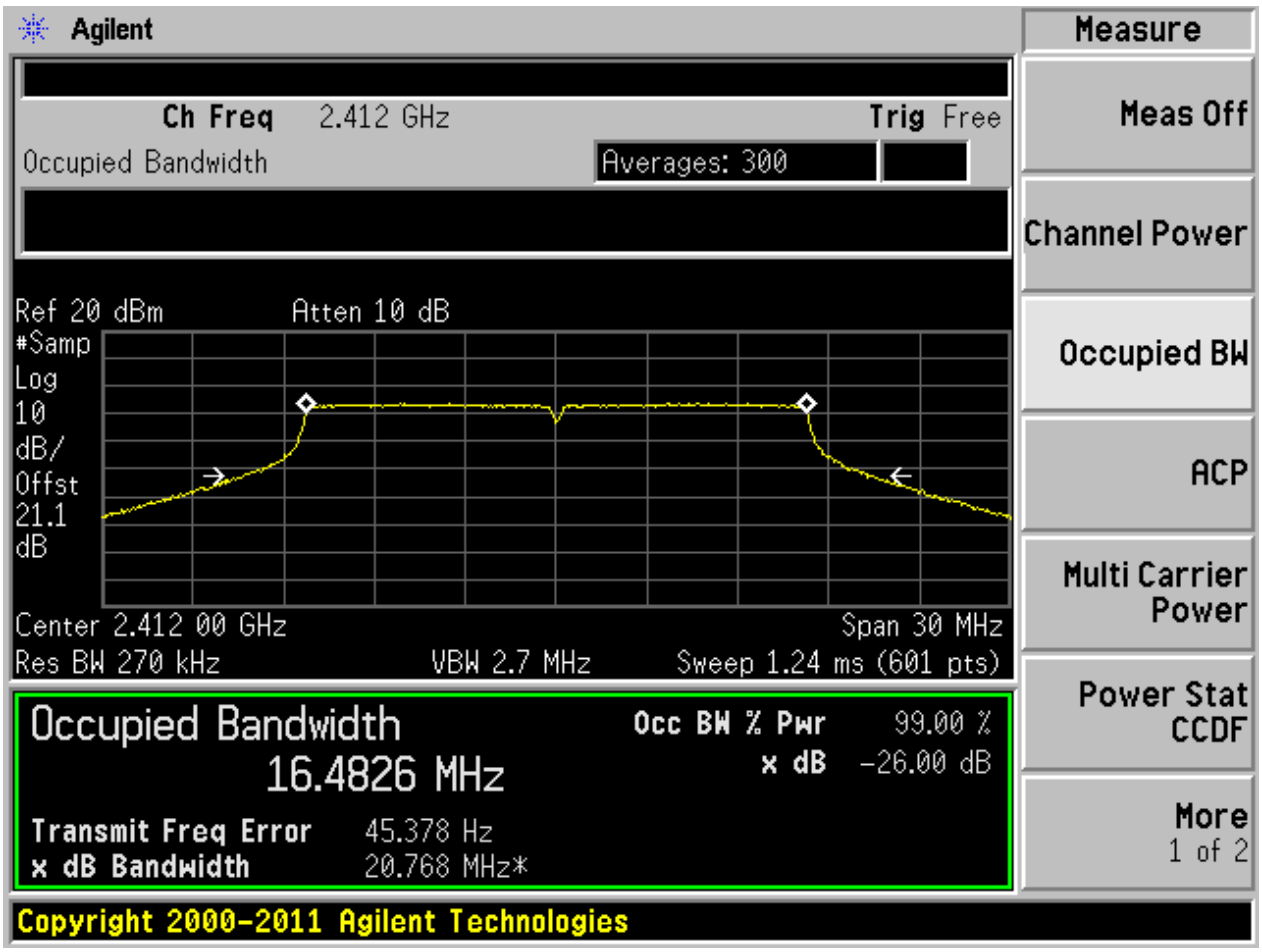

2.1111Gd/6_M@1+2

2.11.1 Ant 1

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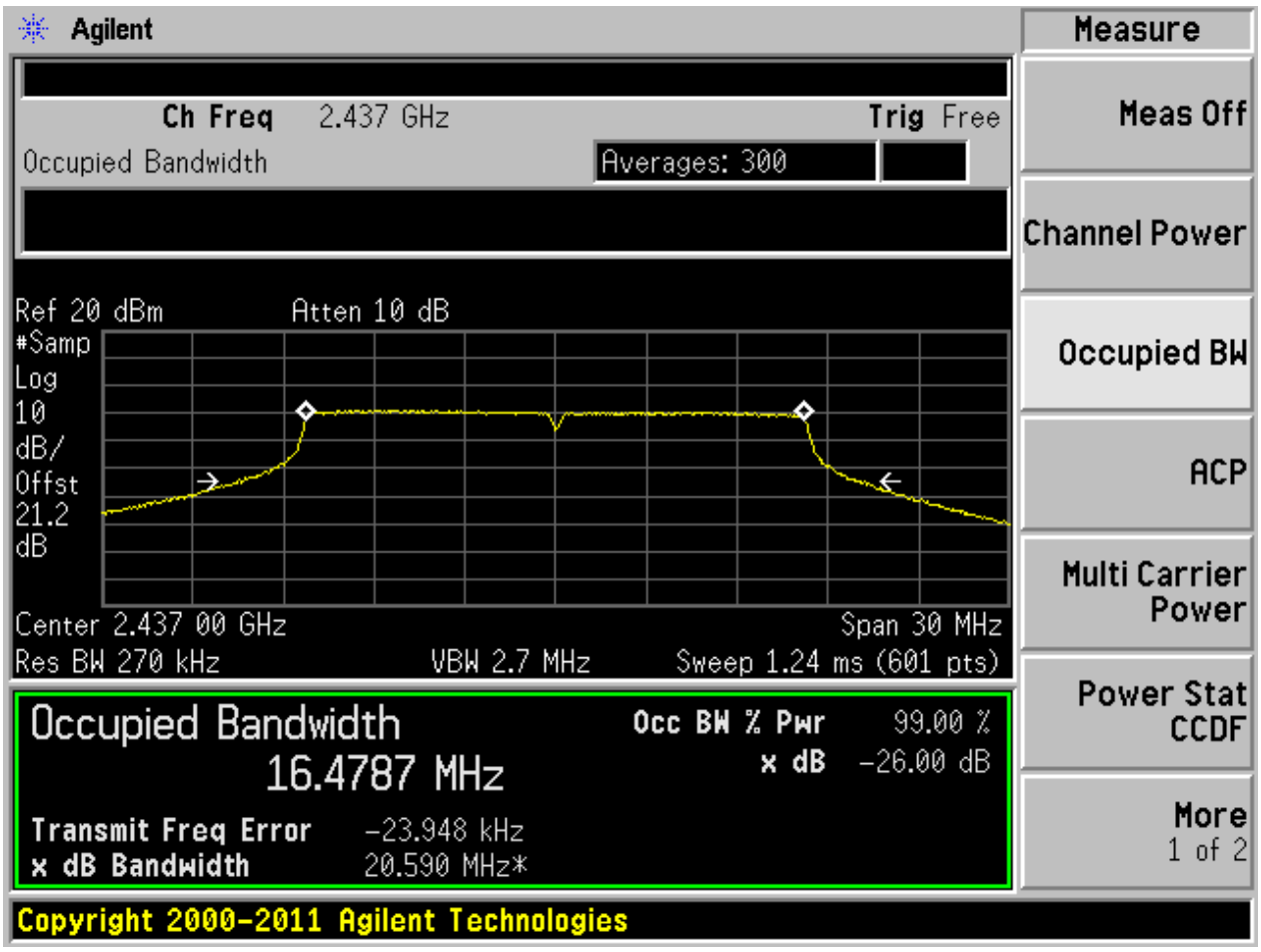

2.11.2 Ant 2

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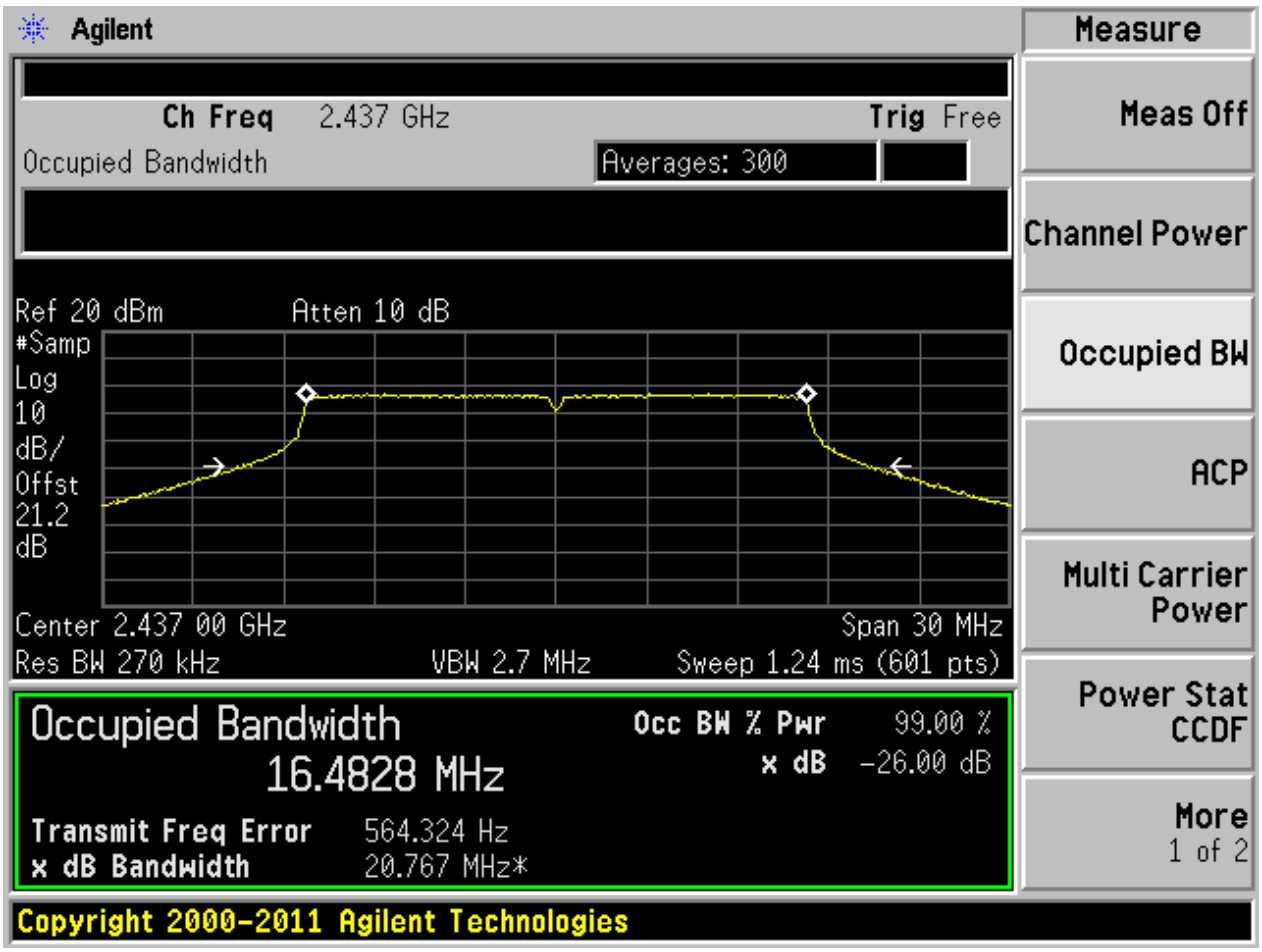

2.1211Gd/6_T@1+2

2.12.1 Ant 1

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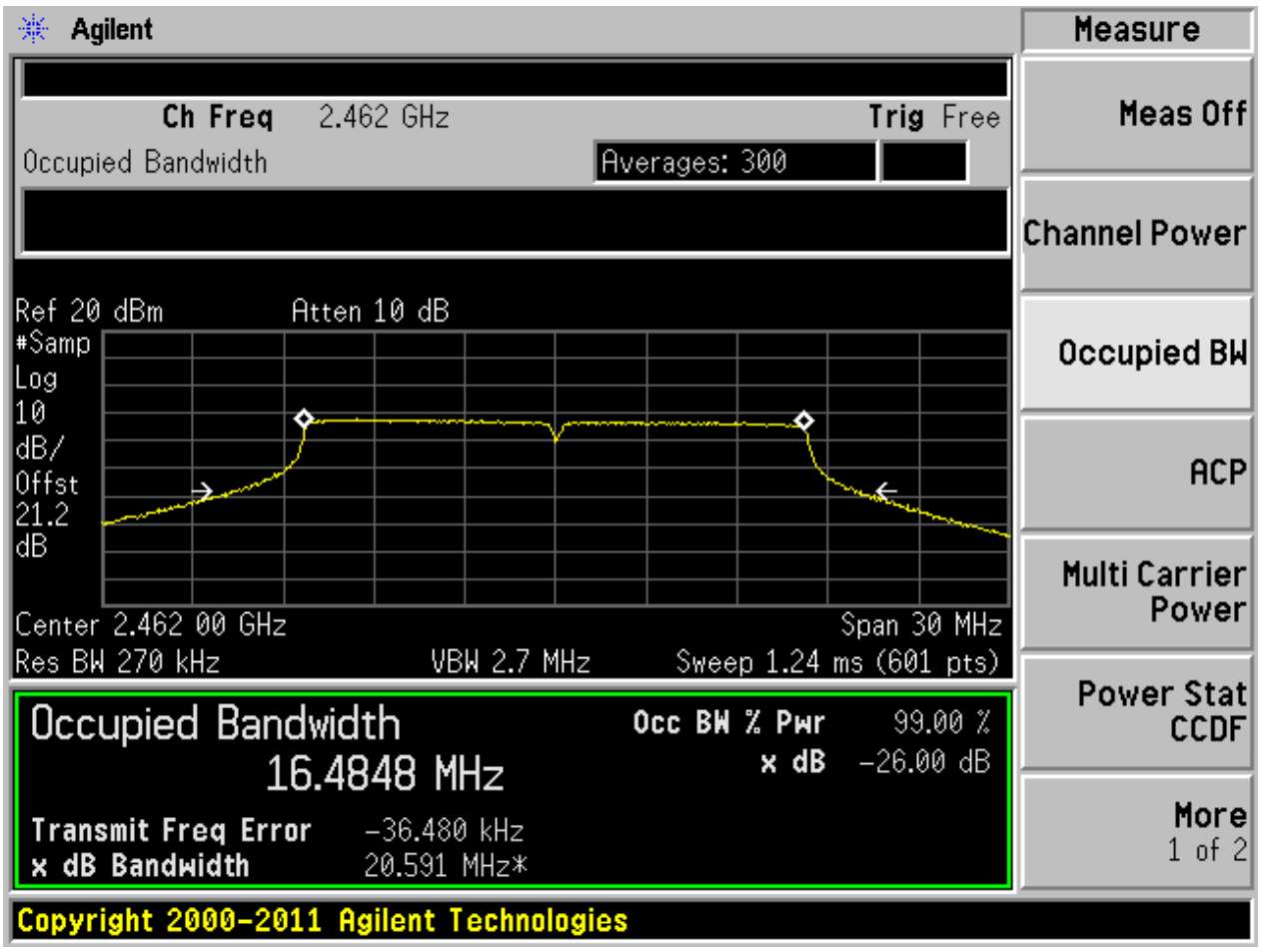

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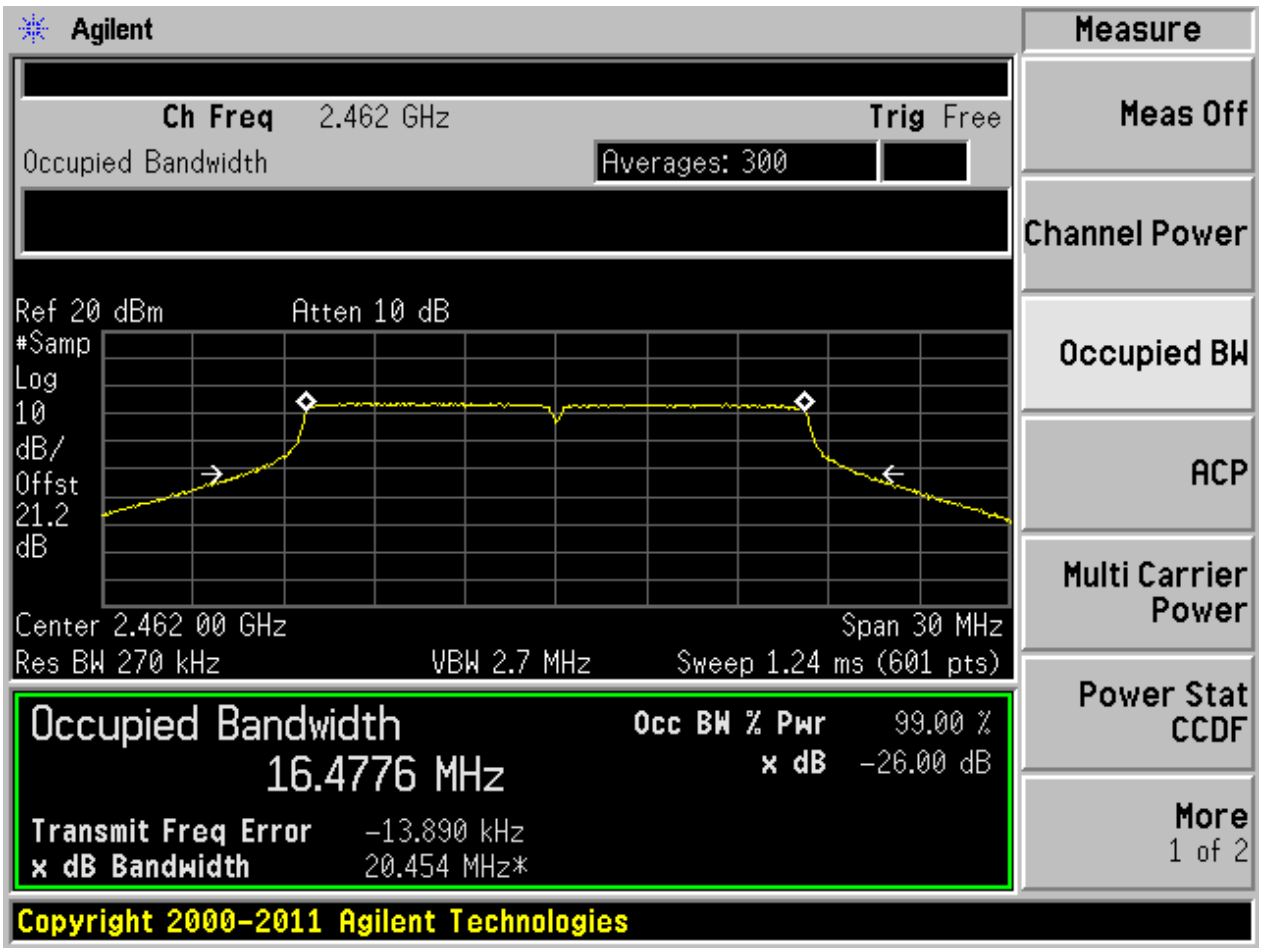

2.1311N20/0_B@1

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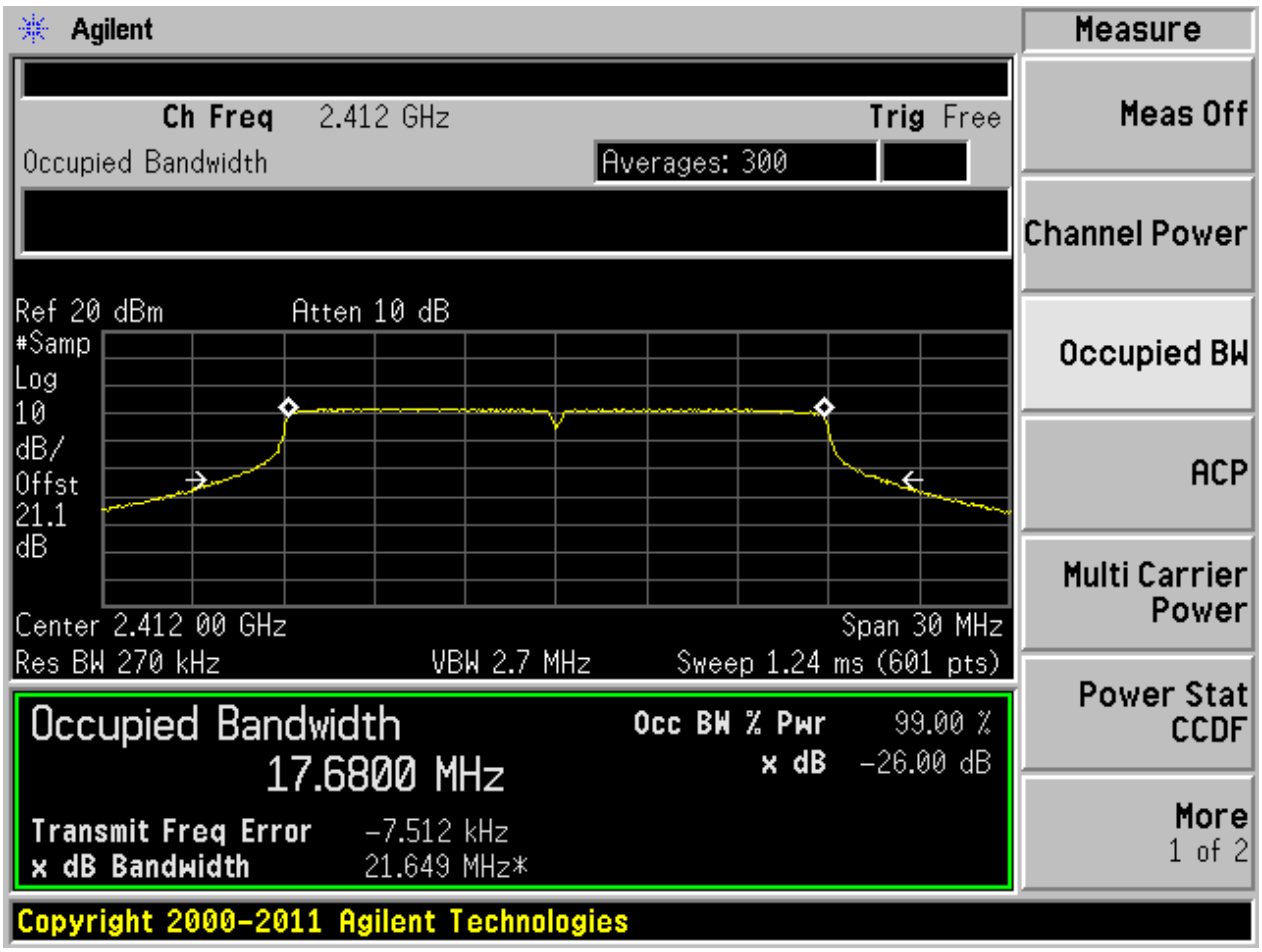

2.1411N20/0_M@1

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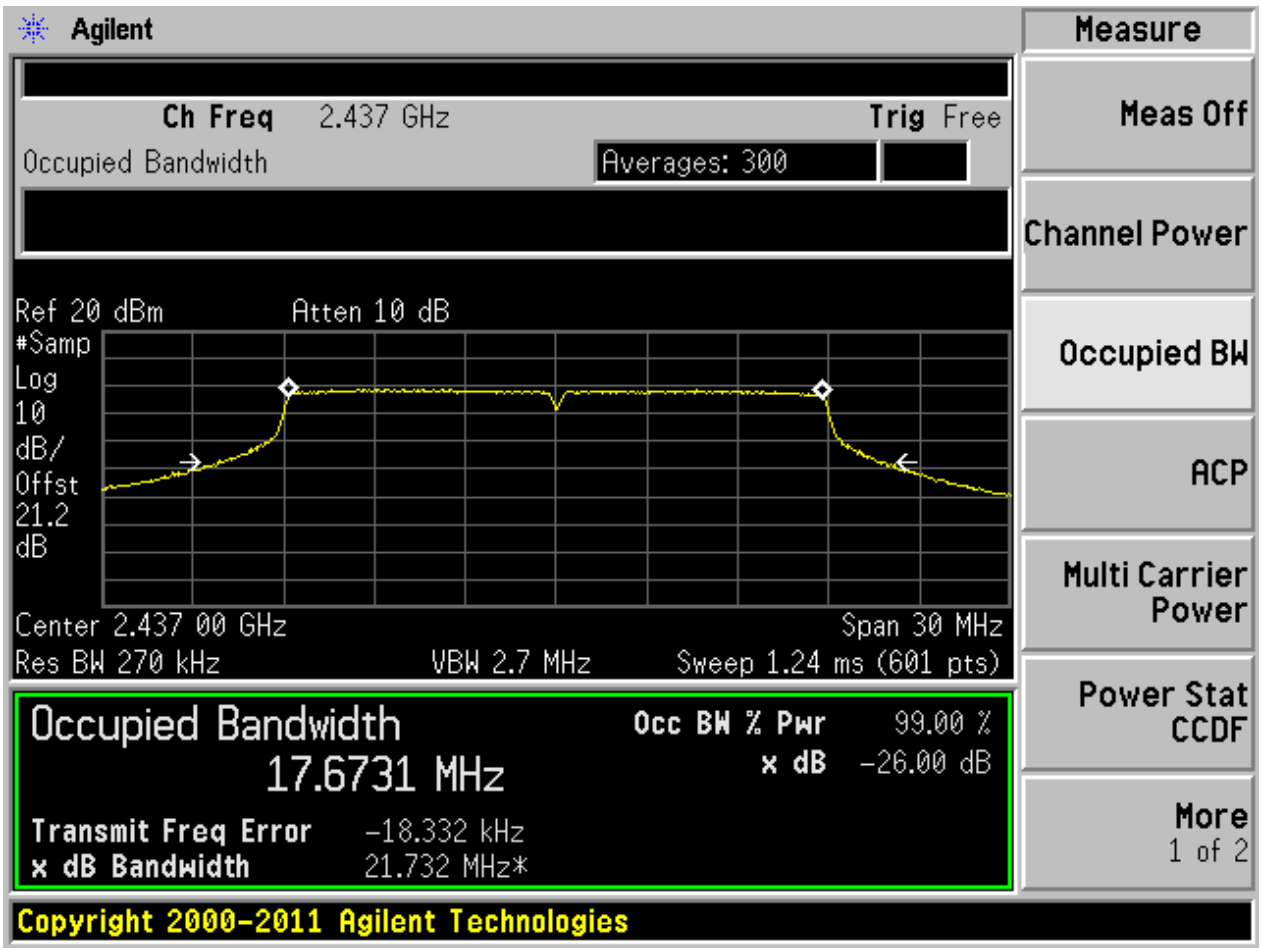

2.1511N20/0_T@1

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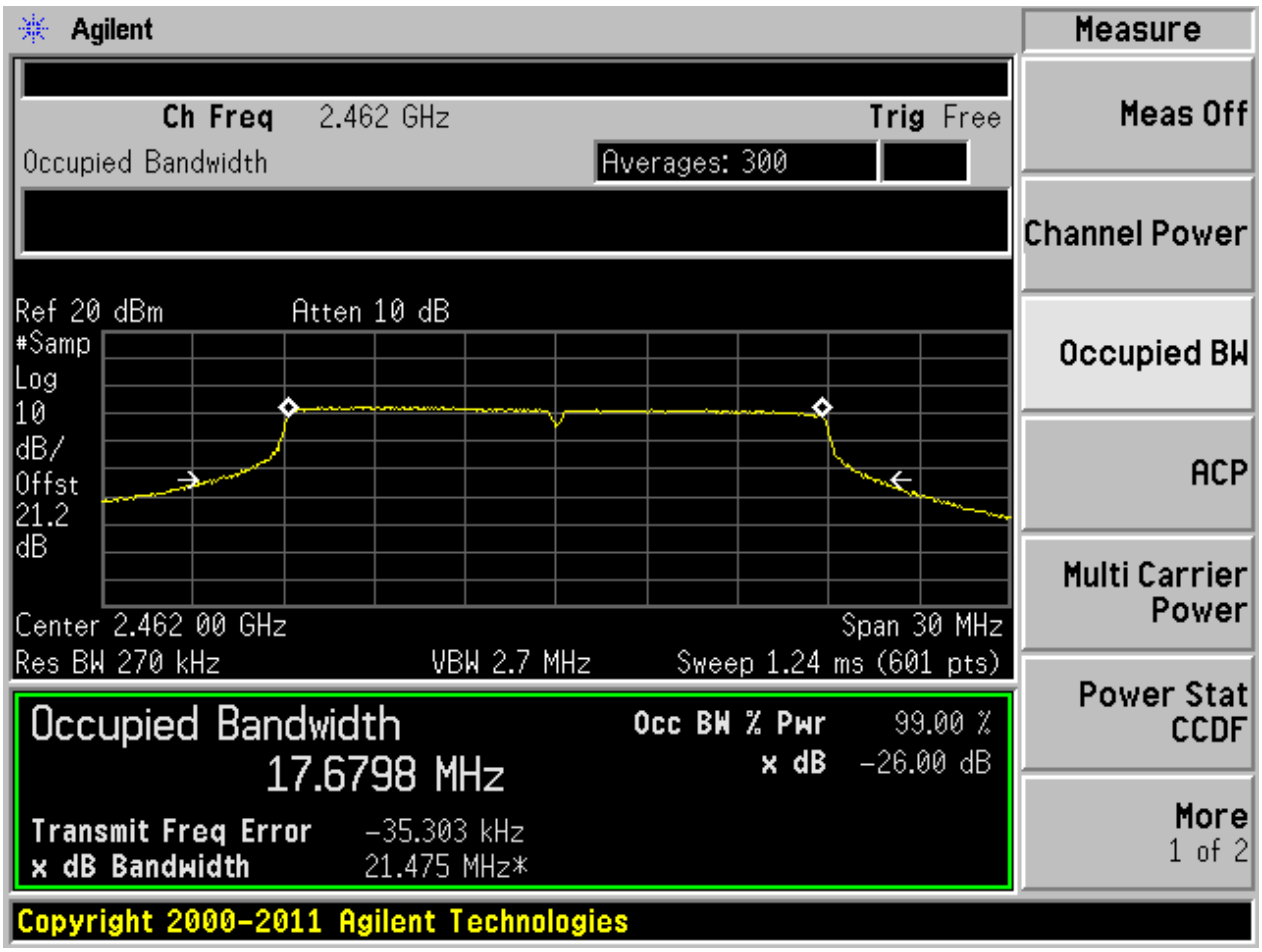

2.1611N20m/8_B@1+2

2.16.1 Ant 1

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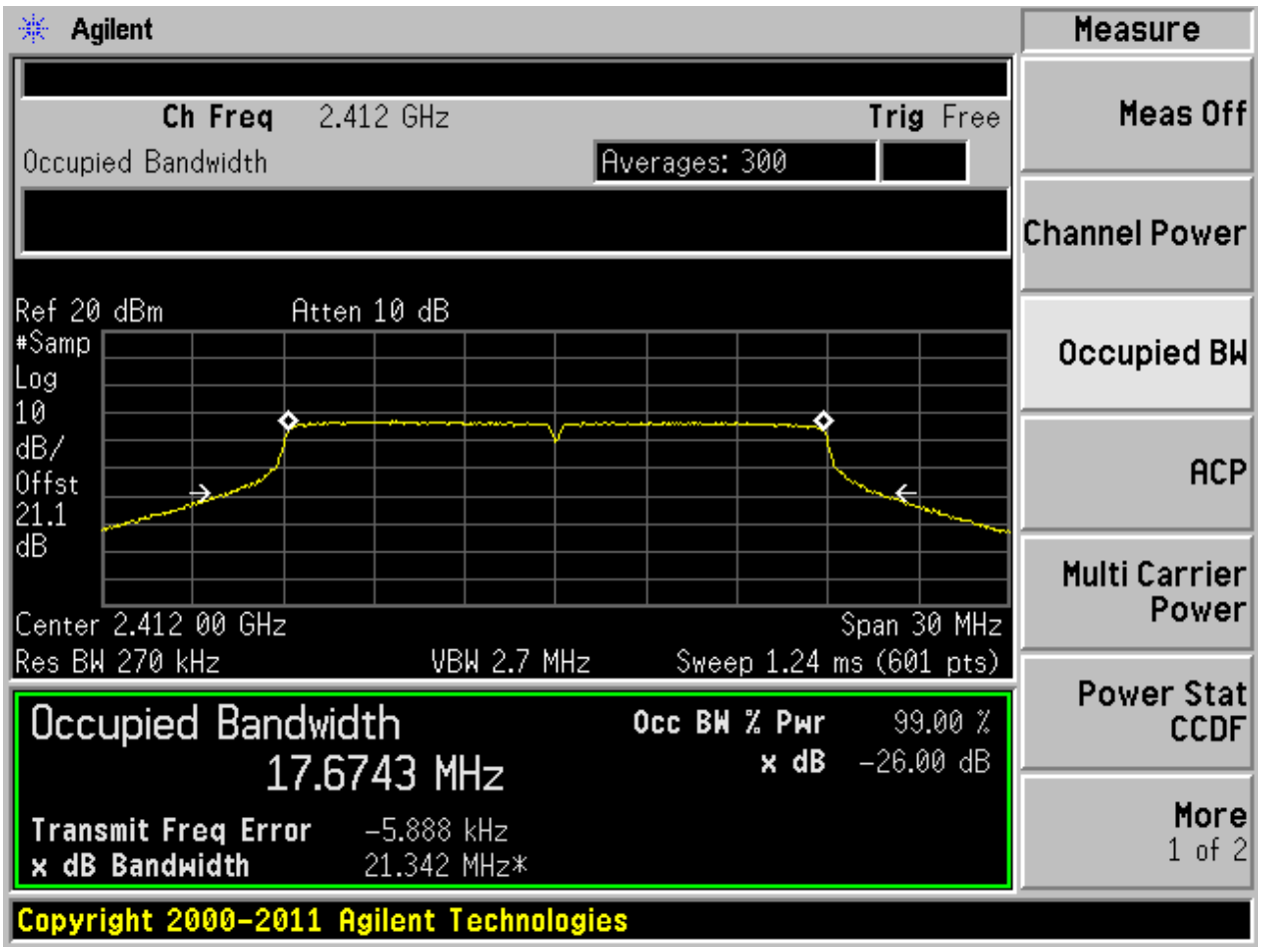

2.16.2 Ant 2

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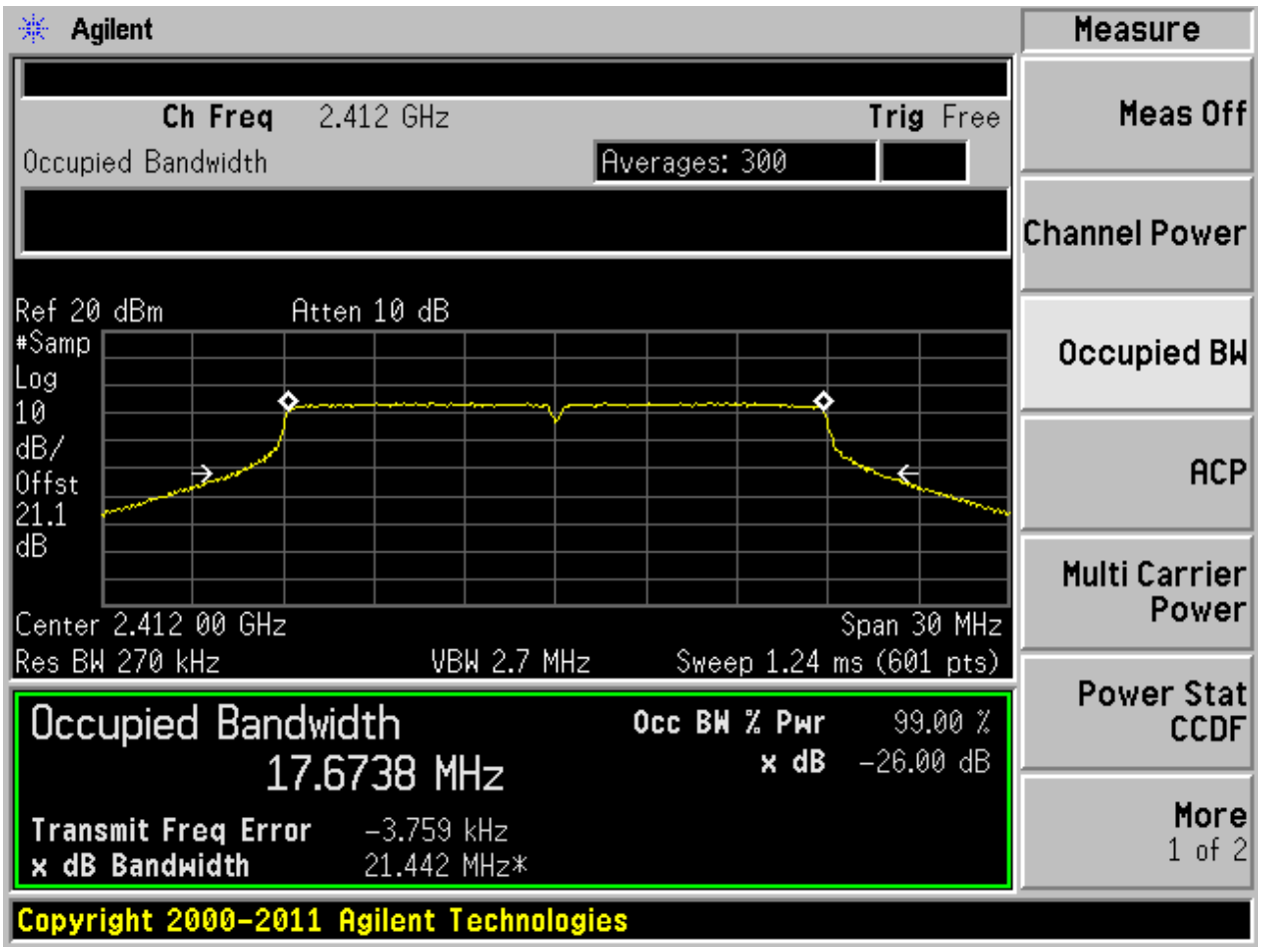

2.1711N20m/8_M@1+2

2.17.1 Ant 1

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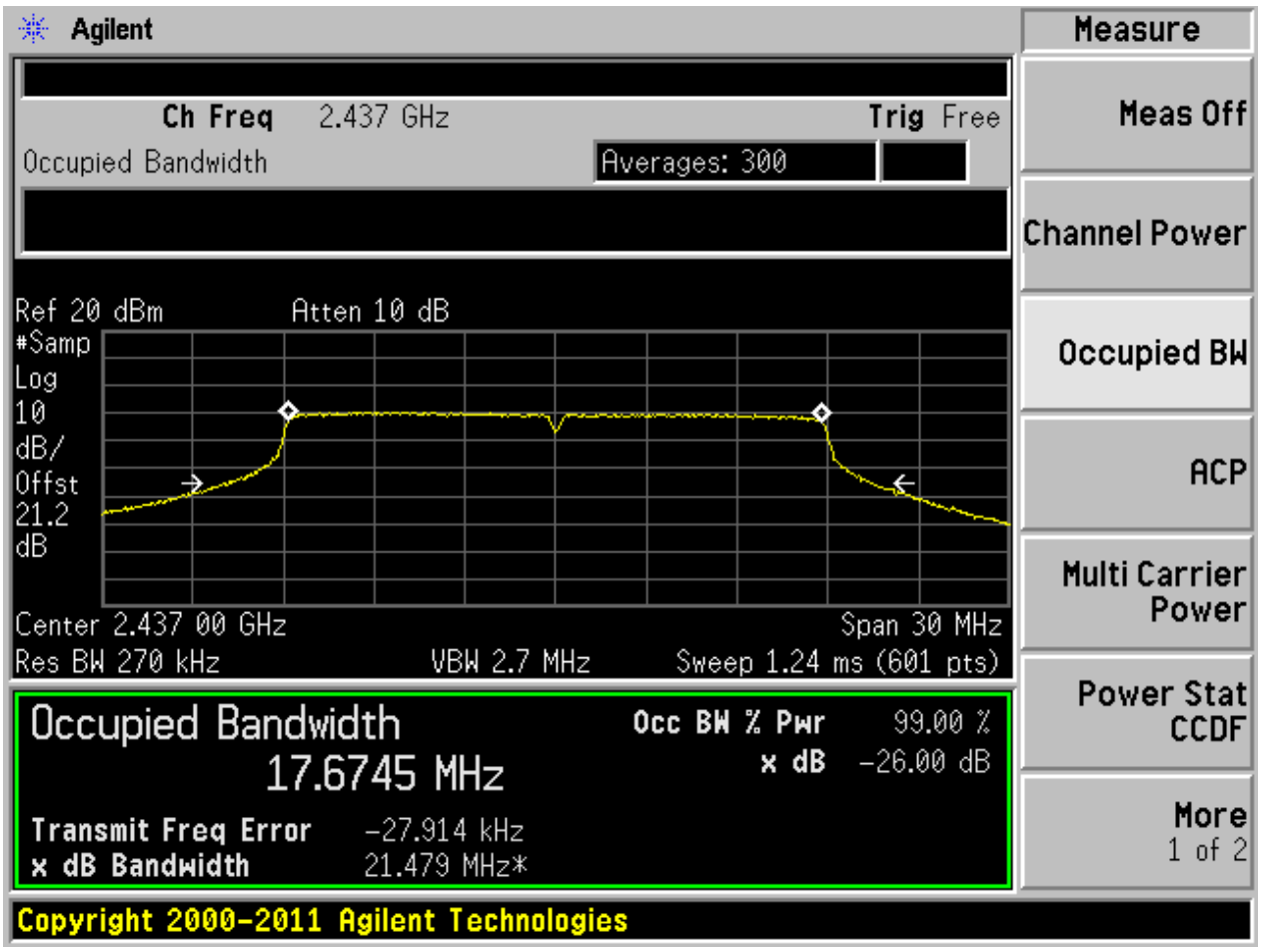

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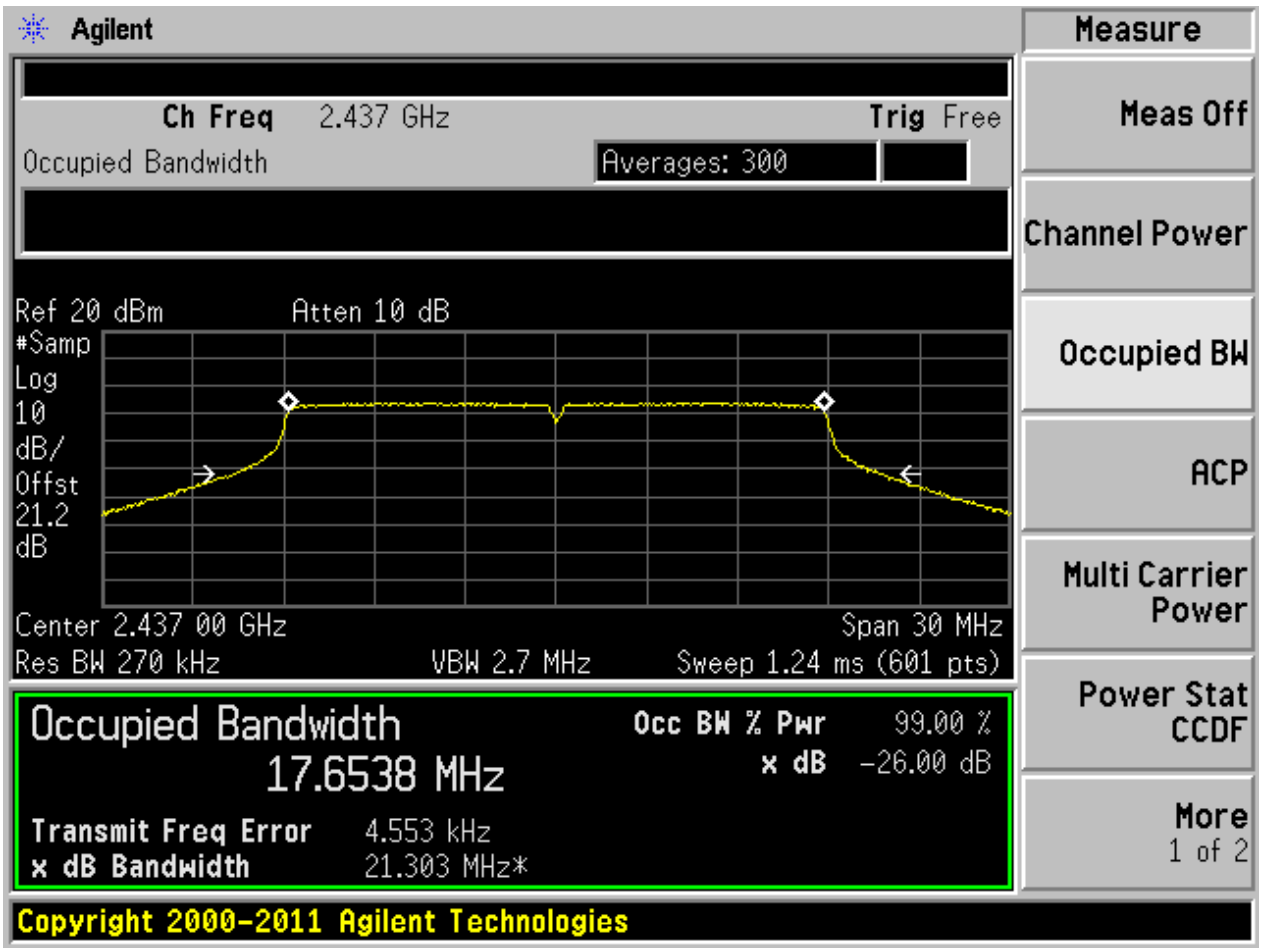

2.1811N20m/8_T@1+2

2.18.1 Ant 1

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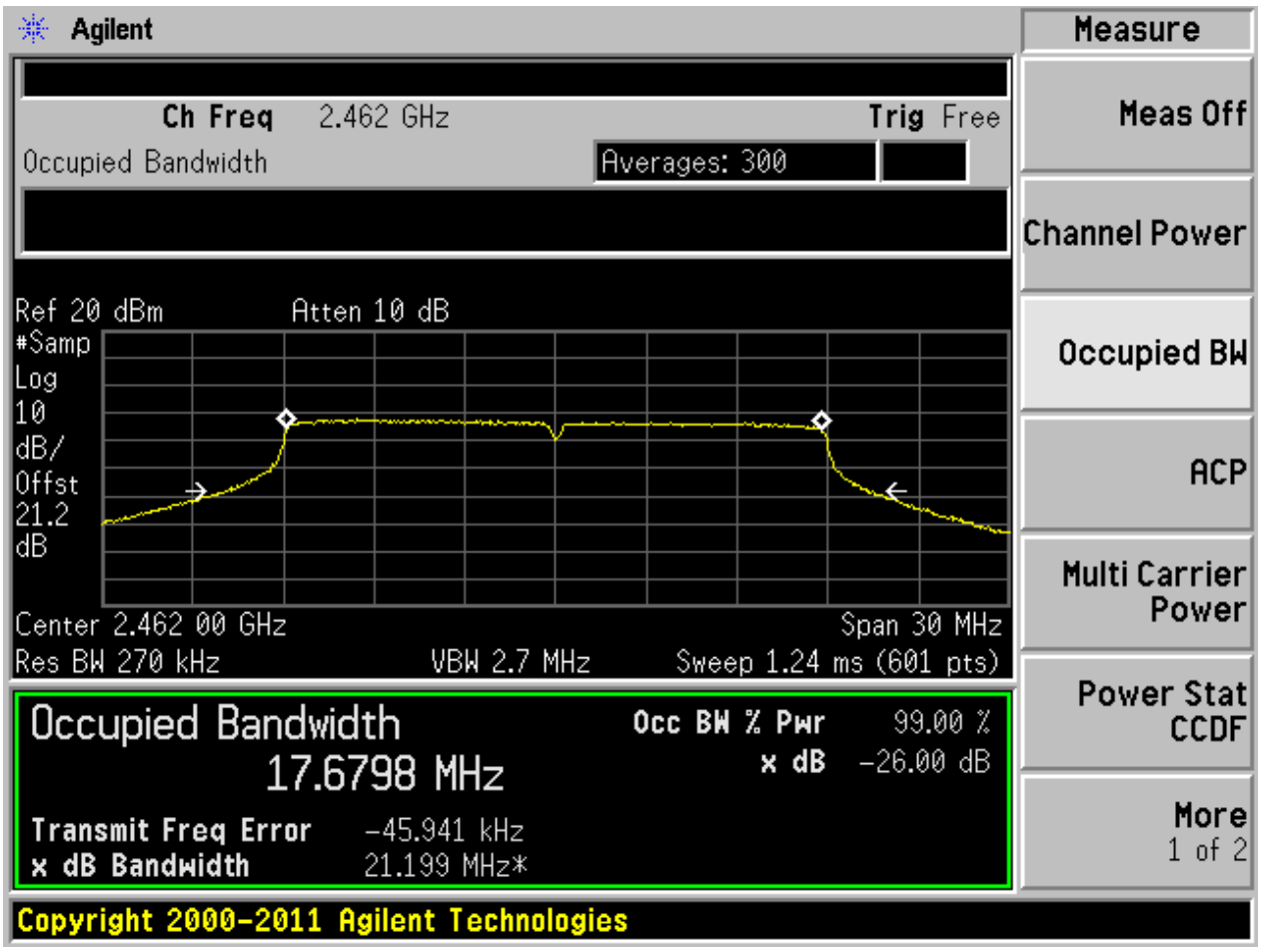

2.18.2 Ant 2

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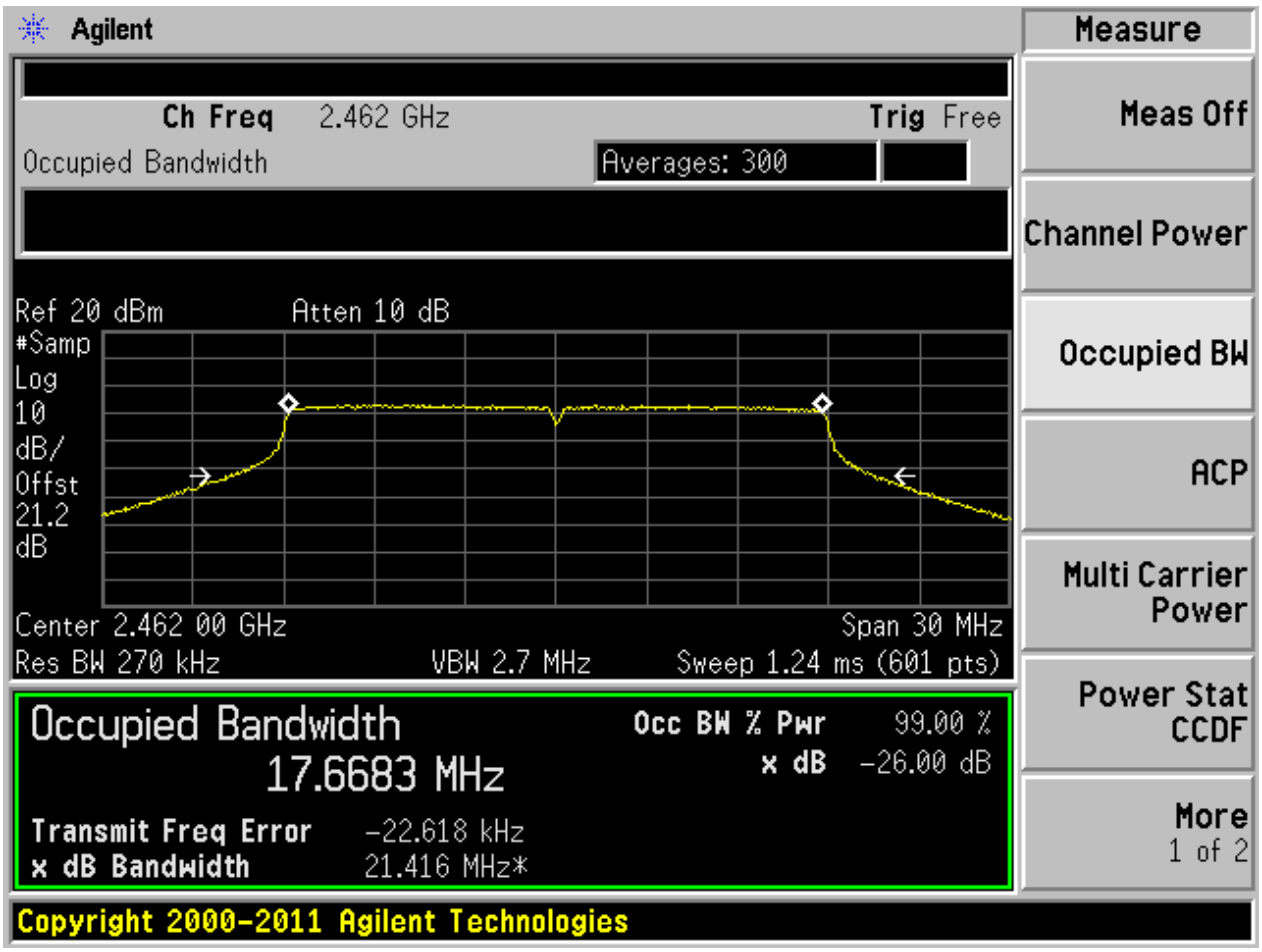

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Appendix C: Maximum Peak Conducted Output Power

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In this Appendix, the “Pmax” refers to the measured “Maximum Peak Conducted Output Power” value. The “fc(DTS6dBBW)” and “DTS6dBBW” in “DTS (6 dB) Bandwidth” are used to determine the integrated band power.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain as “Pmax@i [dBm]”, and then combined into the final result “Pmax [dBm]” to compare with the limit according to: Pmax [dBm] = 10 x lg(10 ^ (Pmax@1 [dBm] / 10) + ... + 10 ^ (Pmax@N [dBm] / 10)) (the N denotes the antenna chains used by smart antenna systems).

1 Result Table

EUT Conf.	Ant.	Pmax@i [dBm]	Pmax [dBm]	Verdict
11B/1_B@1	Ant 1	17.15	17.15	Pass
11B/1_M@1	Ant 1	18.13	18.13	Pass
11B/1_T@1	Ant 1	18.63	18.63	Pass
11Bd/1_B@1+2	Ant 1	11.6	14.9	Pass
	Ant 2	12.16		
11Bd/1_M@1+2	Ant 1	11.87	15.35	Pass
	Ant 2	12.77		
11Bd/1_T@1+2	Ant 1	12.63	15.66	Pass
	Ant 2	12.66		
11G/6_B@1	Ant 1	20.13	20.13	Pass
11G/6_M@1	Ant 1	23.21	23.21	Pass
11G/6_T@1	Ant 1	21.33	21.33	Pass
11Gd/6_B@1+2	Ant 1	16.08	19.69	Pass
	Ant 2	17.21		
11Gd/6_M@1+2	Ant 1	19.82	23.29	Pass
	Ant 2	20.7		
11Gd/6_T@1+2	Ant 1	16.84	20.1	Pass
	Ant 2	17.32		
11N20/0_B@1	Ant 1	20.08	20.08	Pass
11N20/0_M@1	Ant 1	23.2	23.2	Pass
11N20/0_T@1	Ant 1	21.28	21.28	Pass
11N20m/8_B@1+2	Ant 1	16.86	20.2	Pass
	Ant 2	17.49		
11N20m/8_M@1+2	Ant 1	20.6	23.78	Pass
	Ant 2	20.94		
11N20m/8_T@1+2	Ant 1	17.57	20.65	Pass
	Ant 2	17.71		

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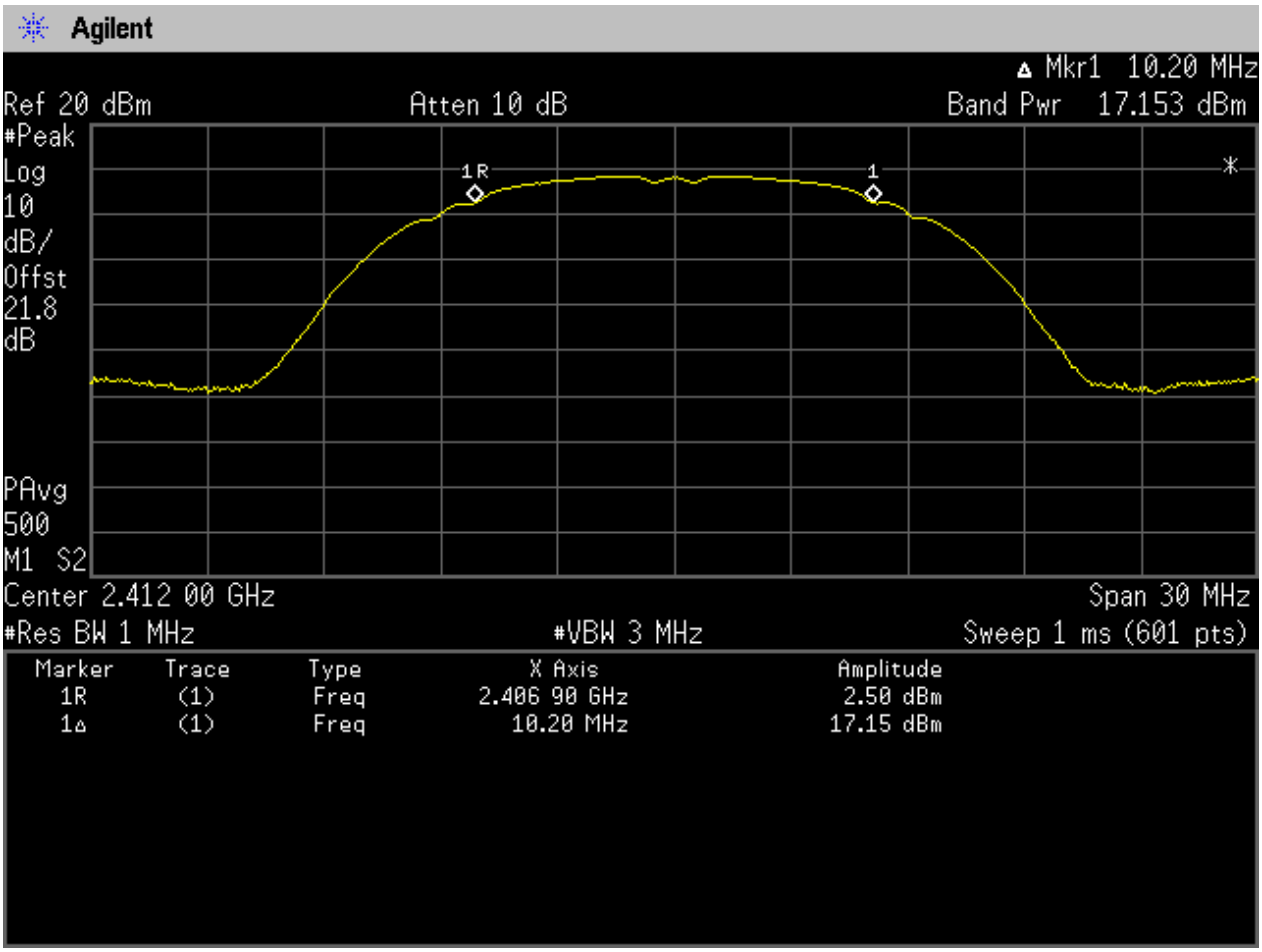
2 Test Plot

2.1 11B/1_B@1



2.2 11B/1_M@1

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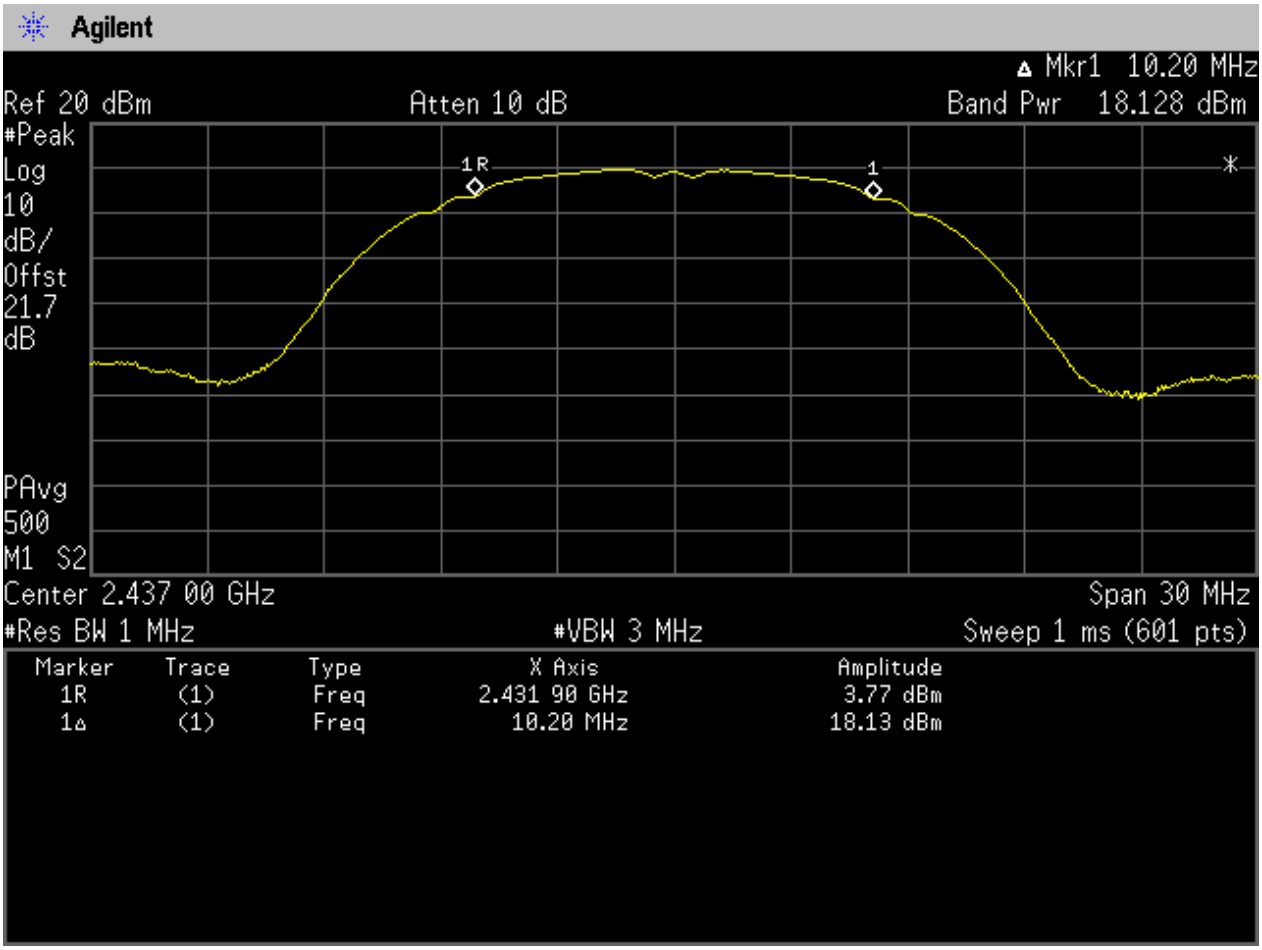

2.3 11B/1_T@1

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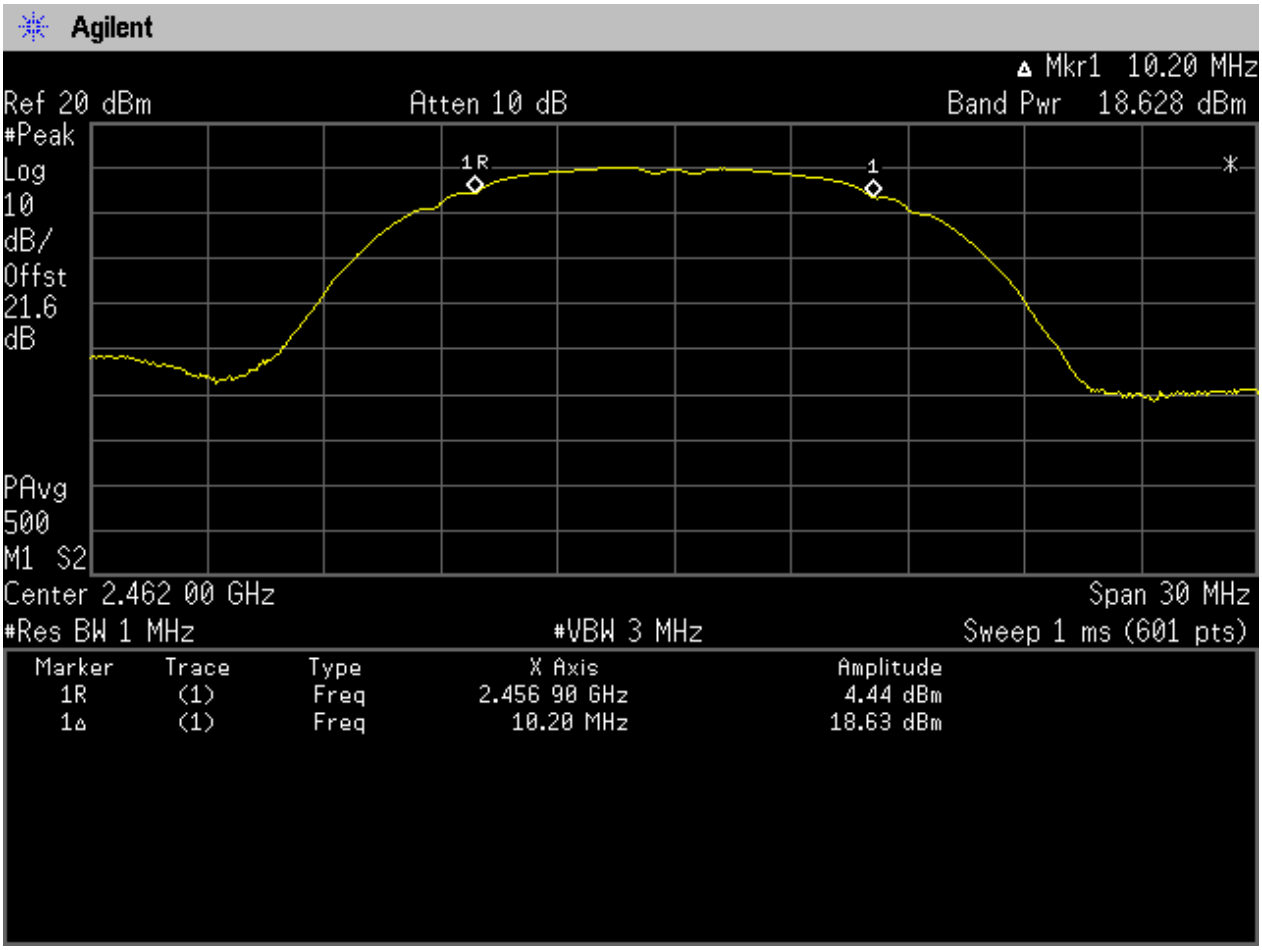

2.4 11Bd/1_B@1+2

2.4.1 Ant 1

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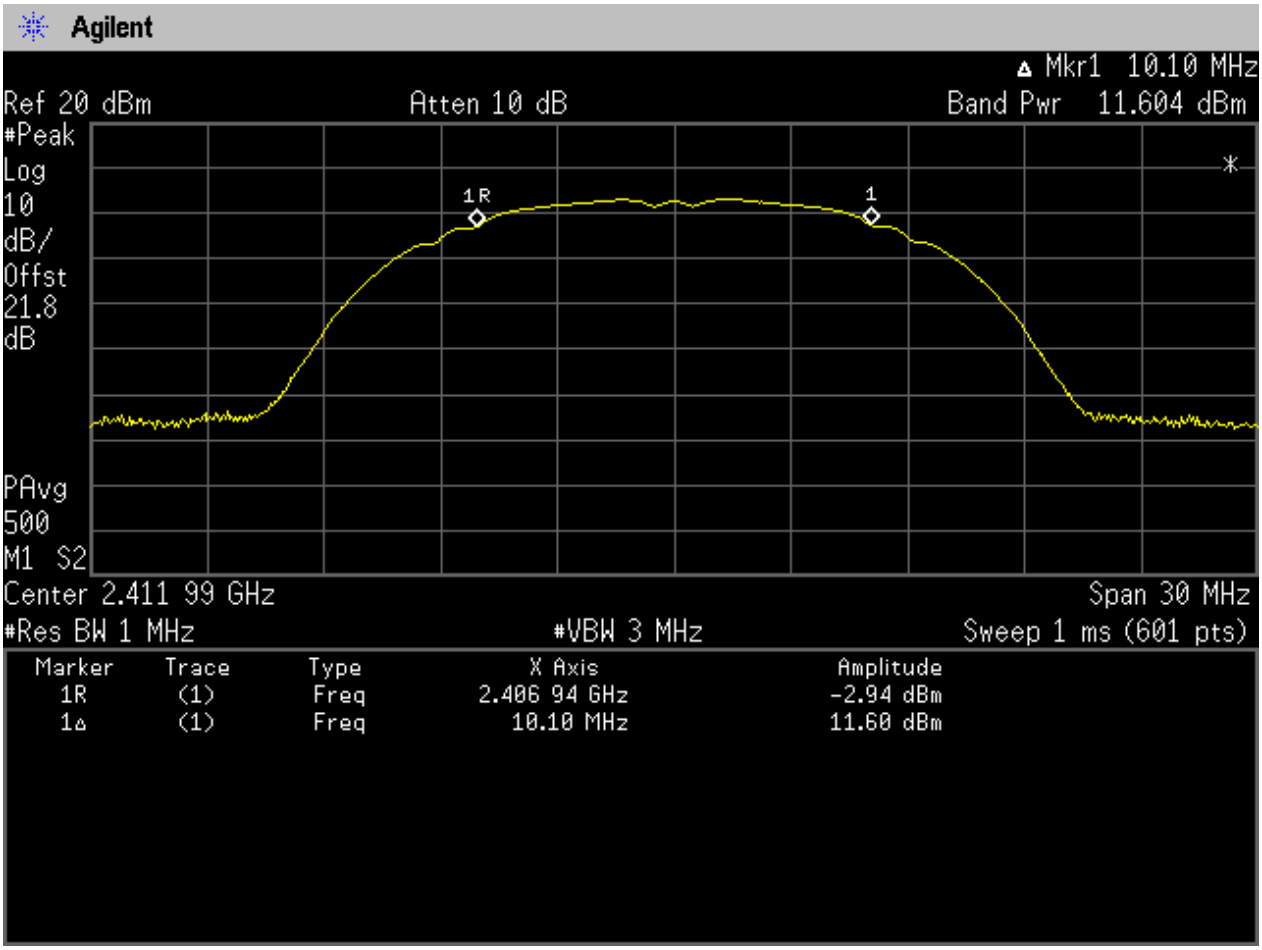

2.4.2 Ant 2

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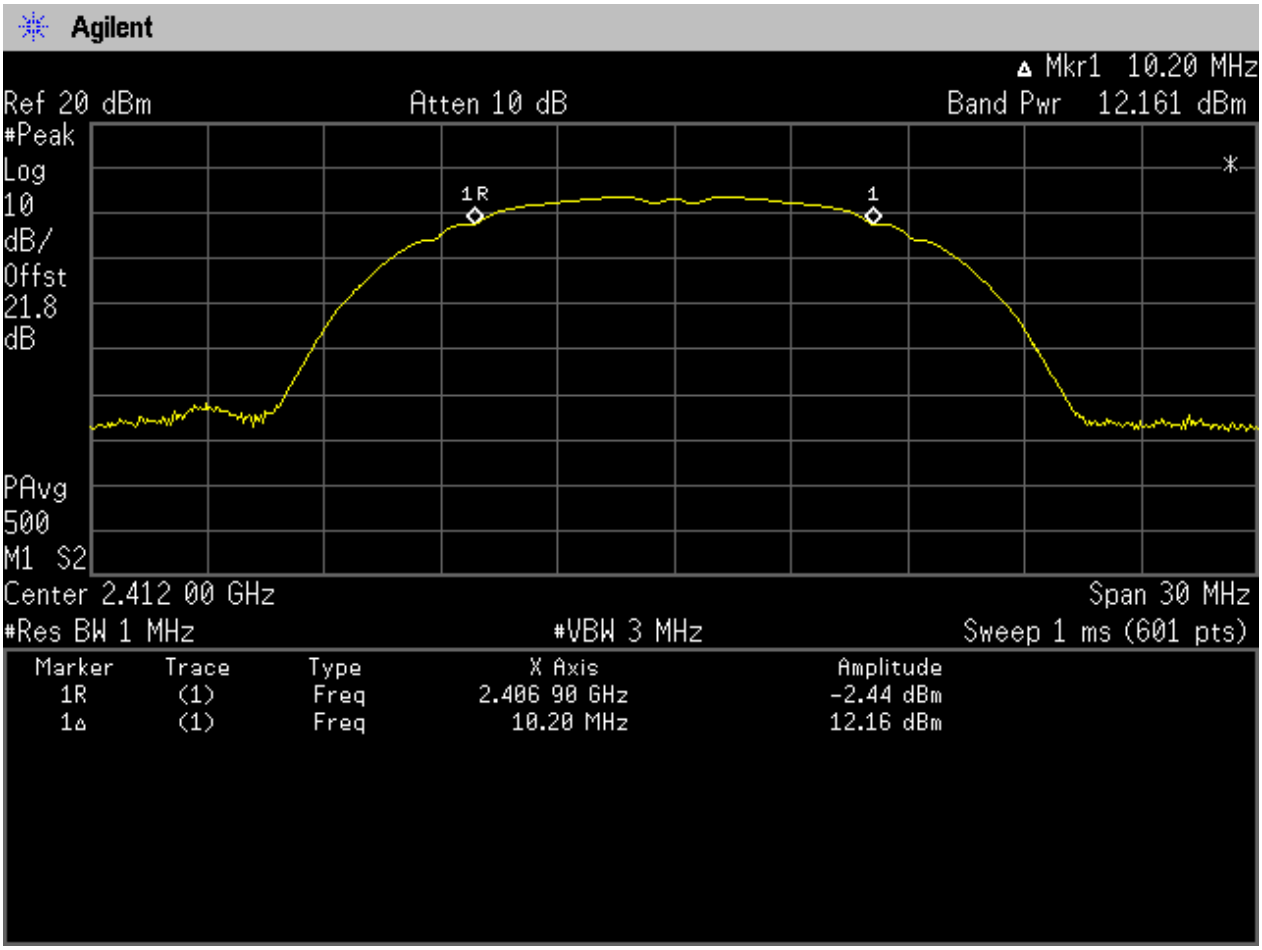

2.5 11Bd/1_M@1+2

2.5.1 Ant 1

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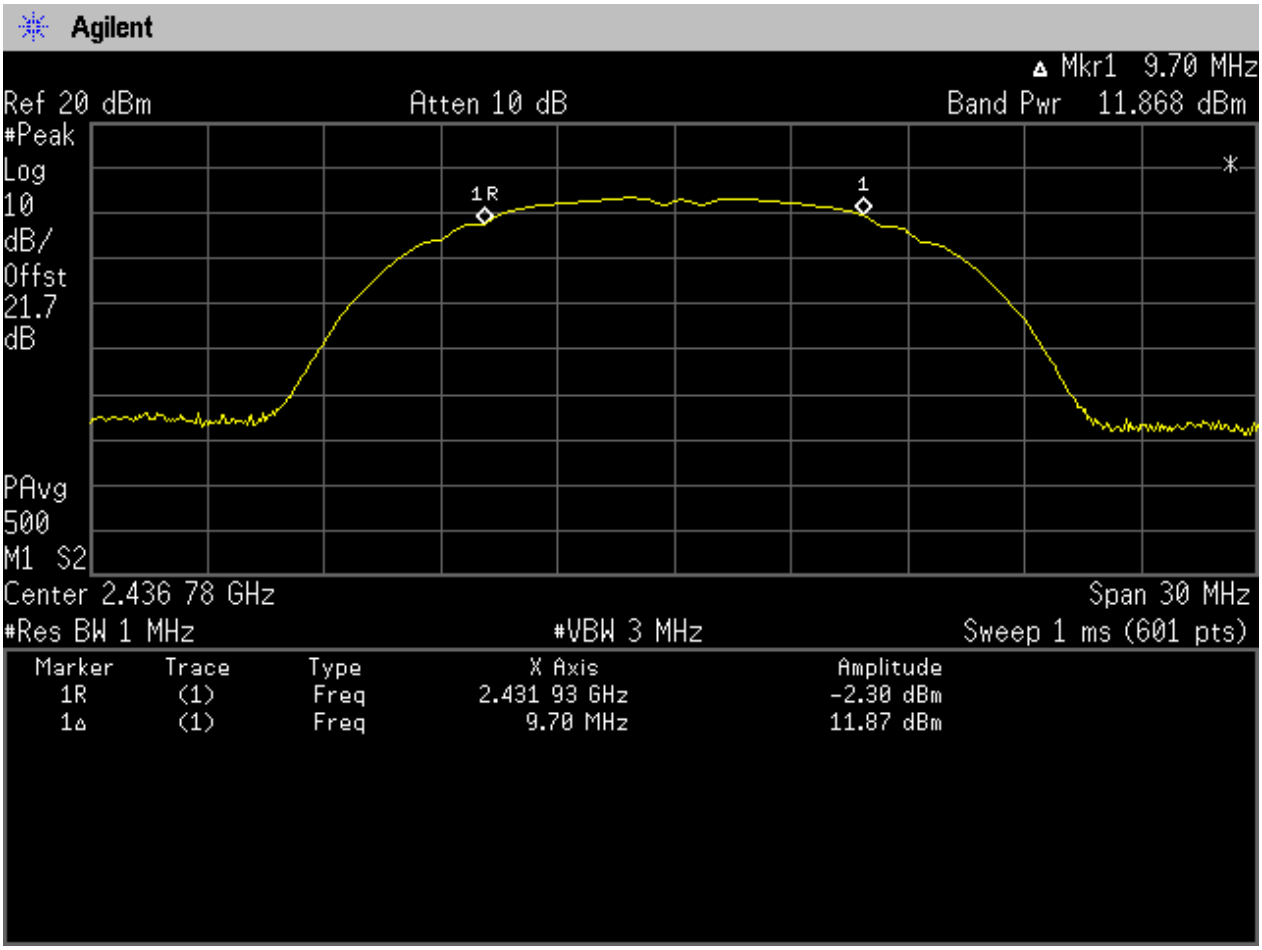

2.5.2 Ant 2

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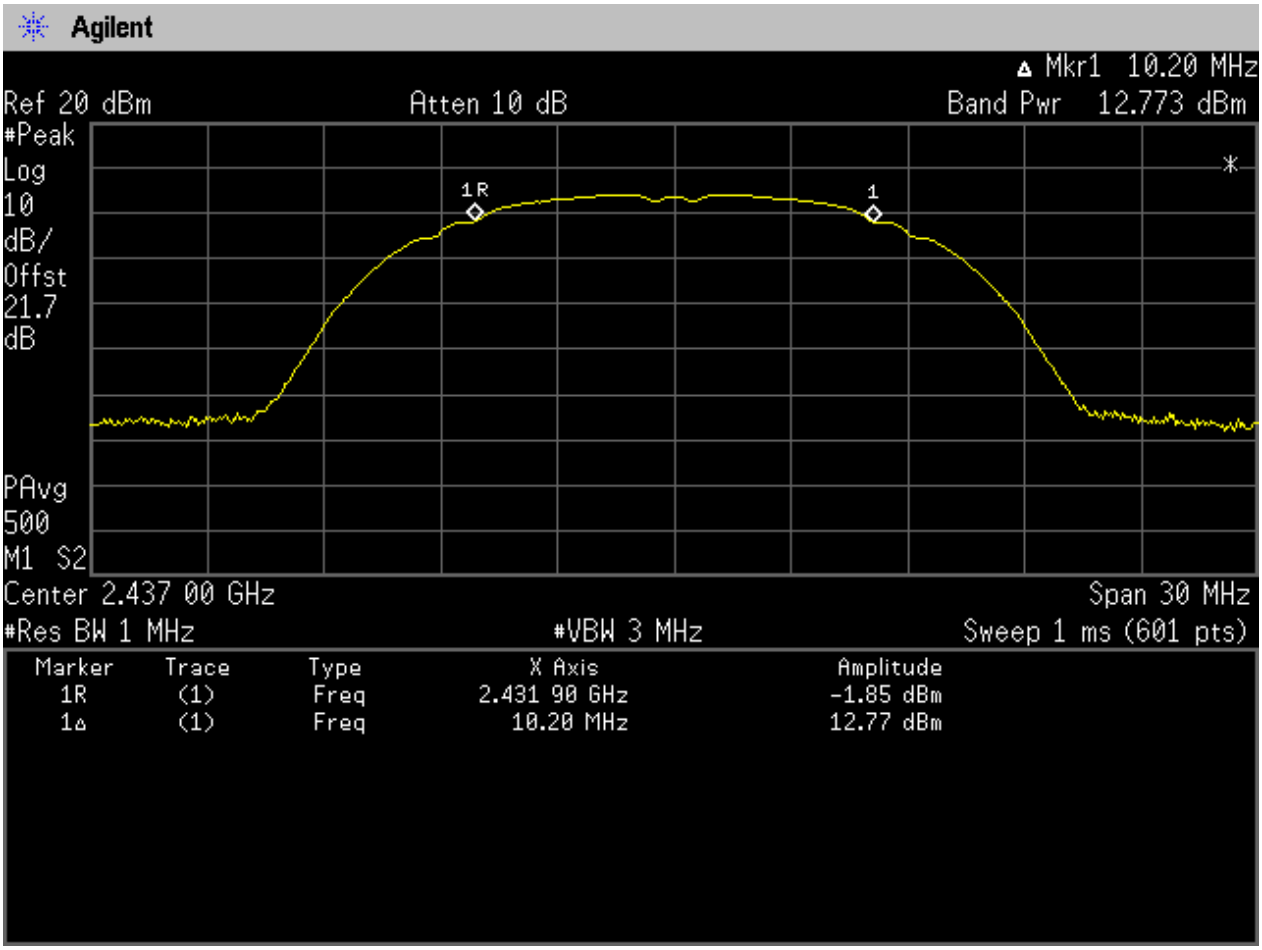

2.6 11Bd/1_T@1+2

2.6.1 Ant 1

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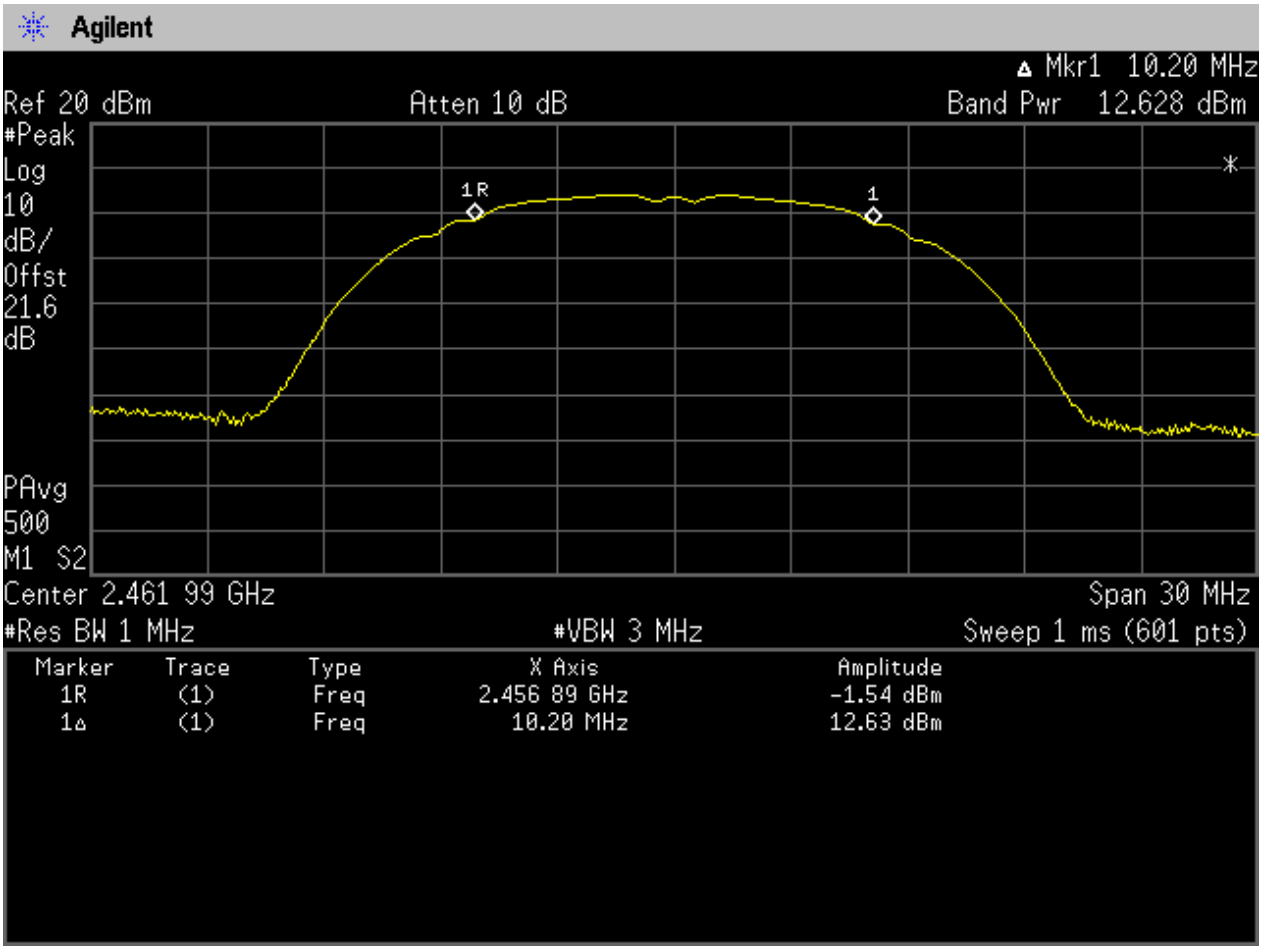

2.6.2 Ant 2

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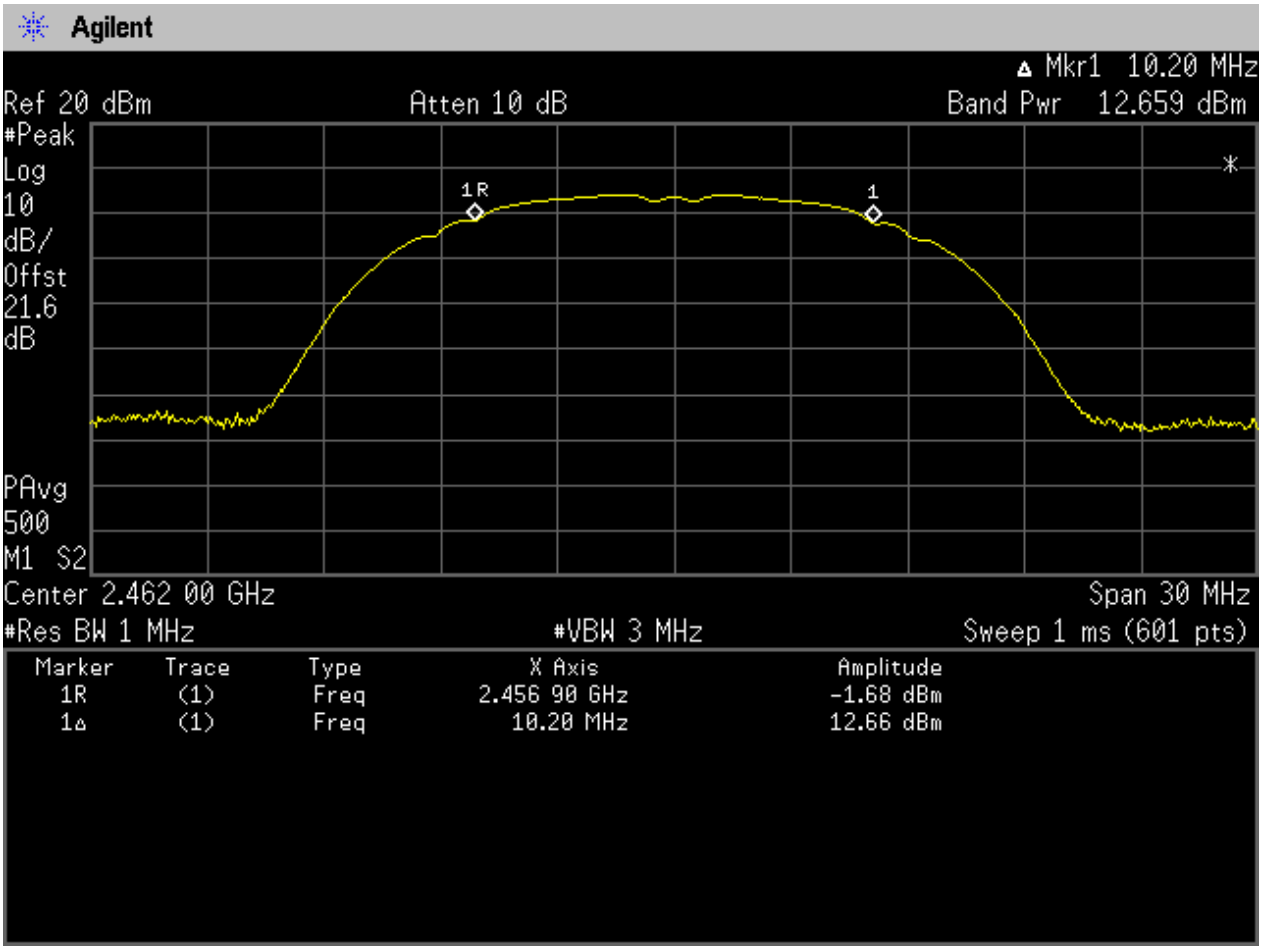

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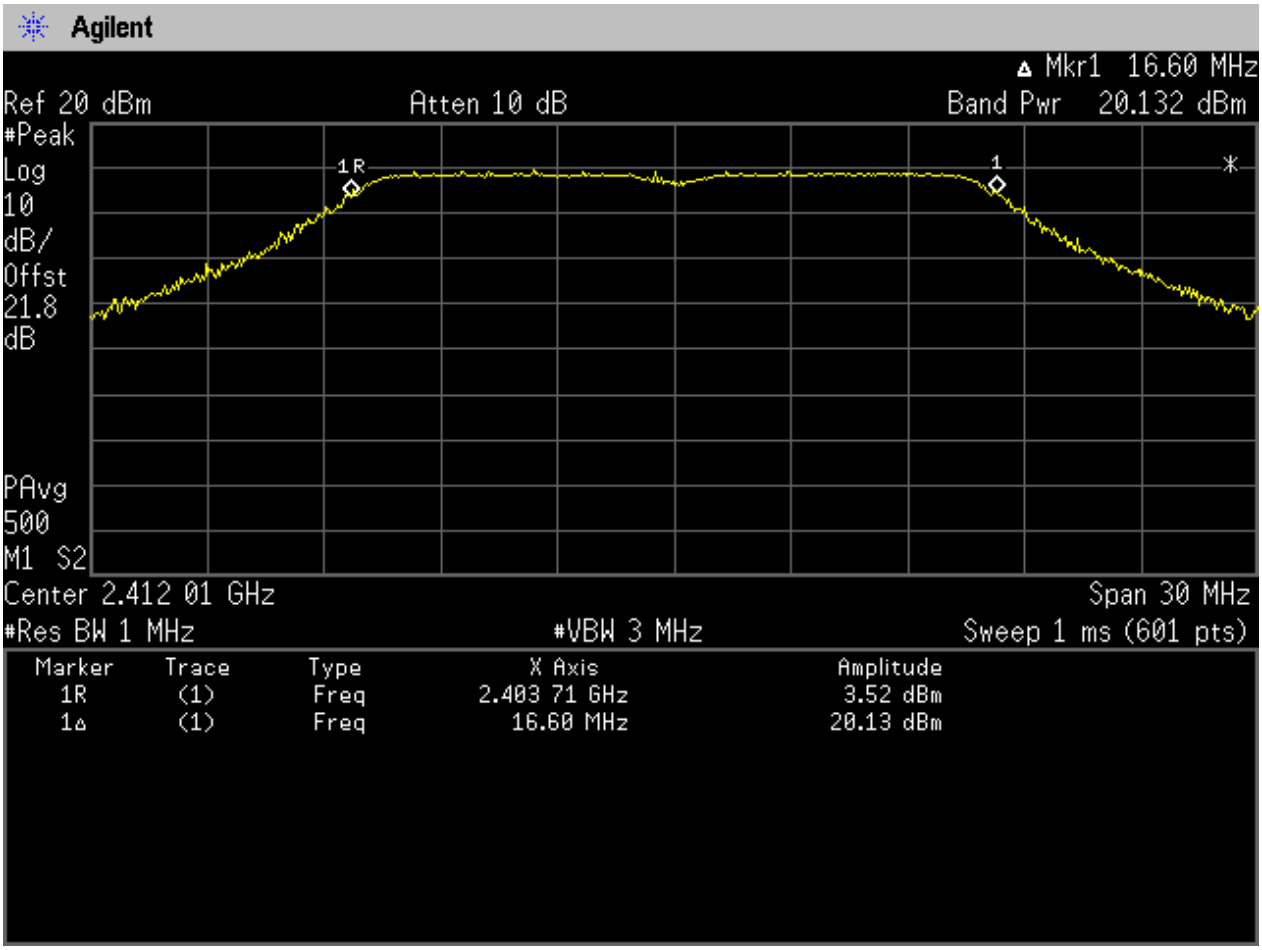

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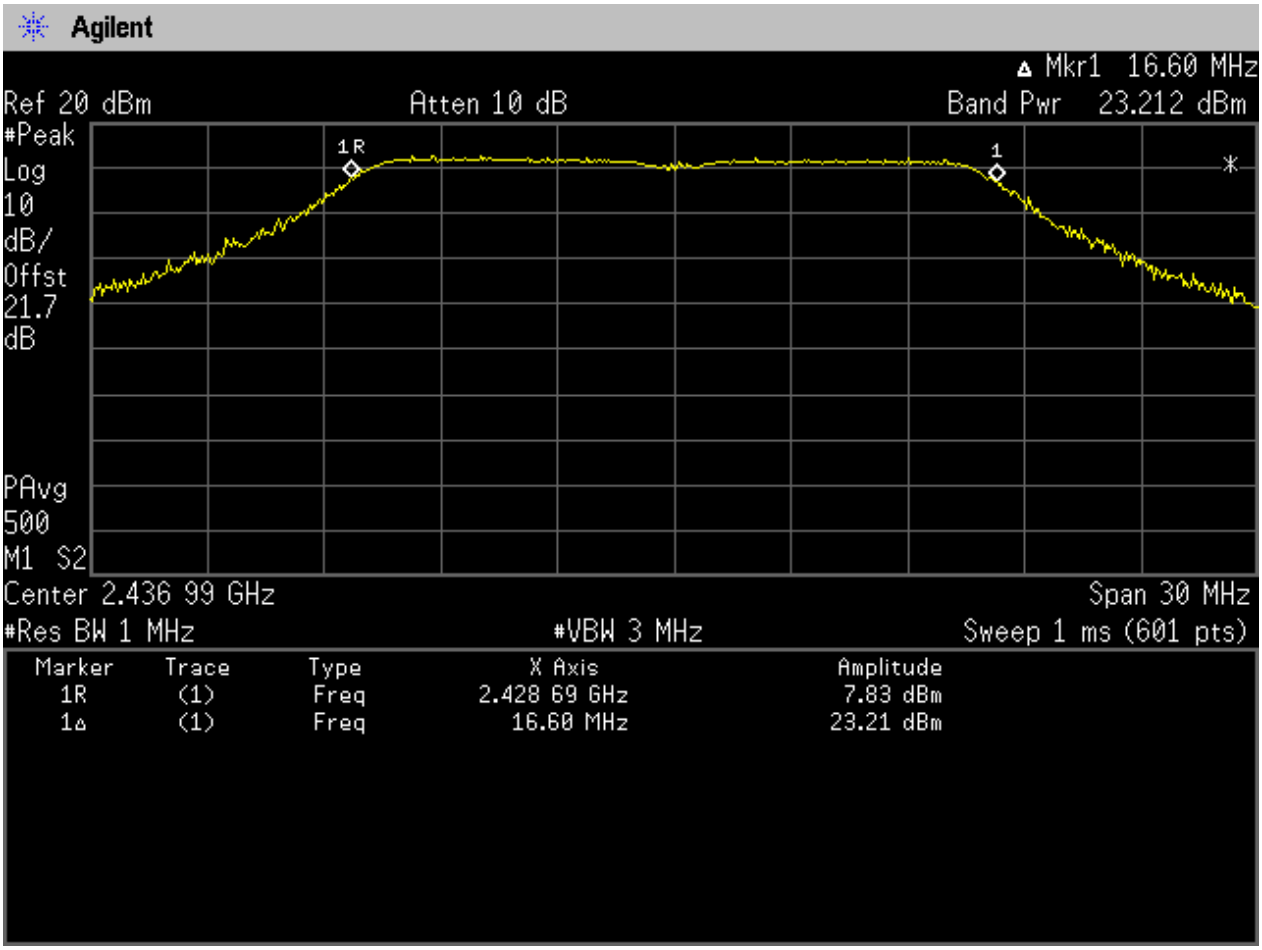

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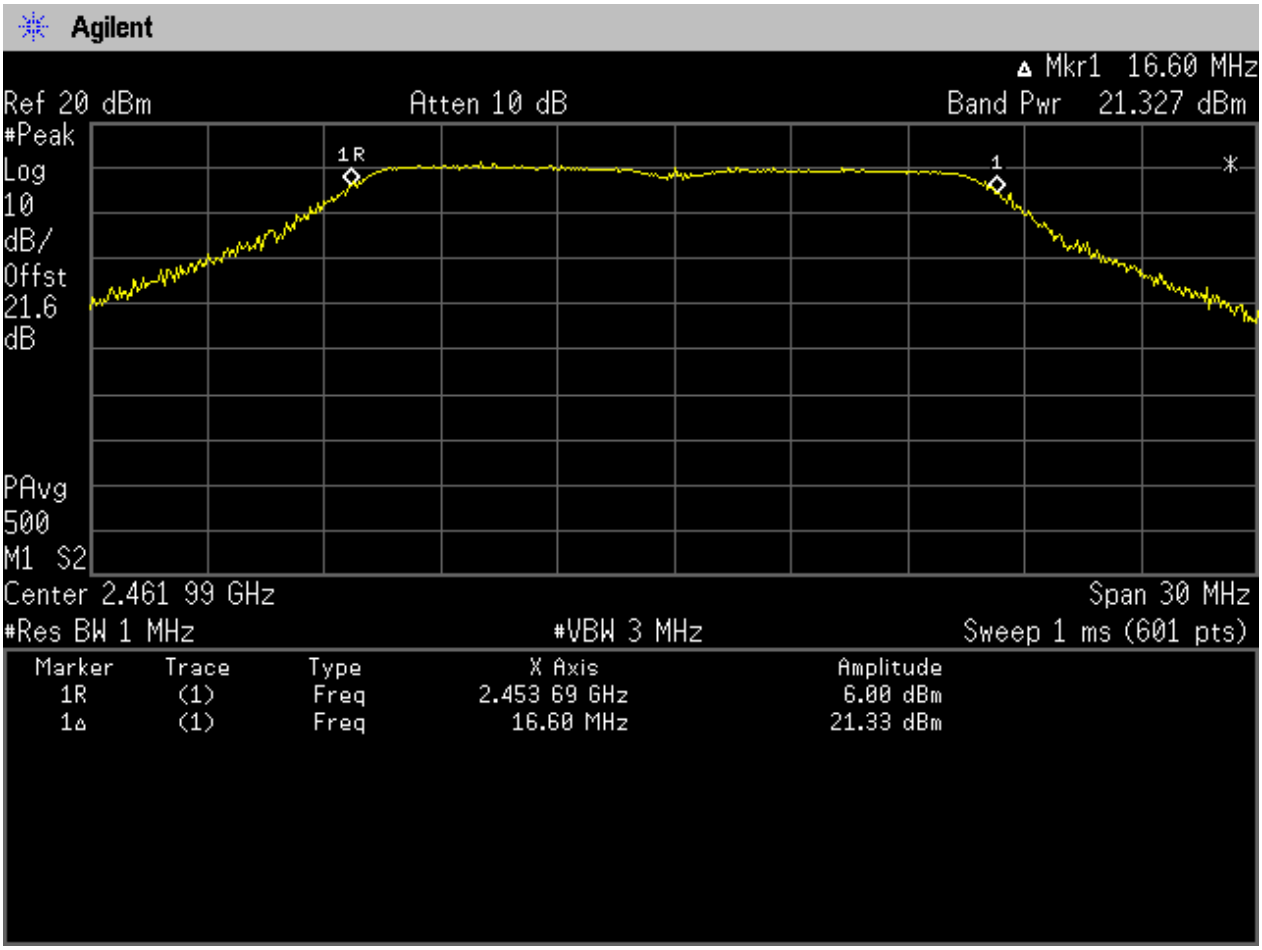

2.1011Gd/6_B@1+2

2.10.1 Ant 1

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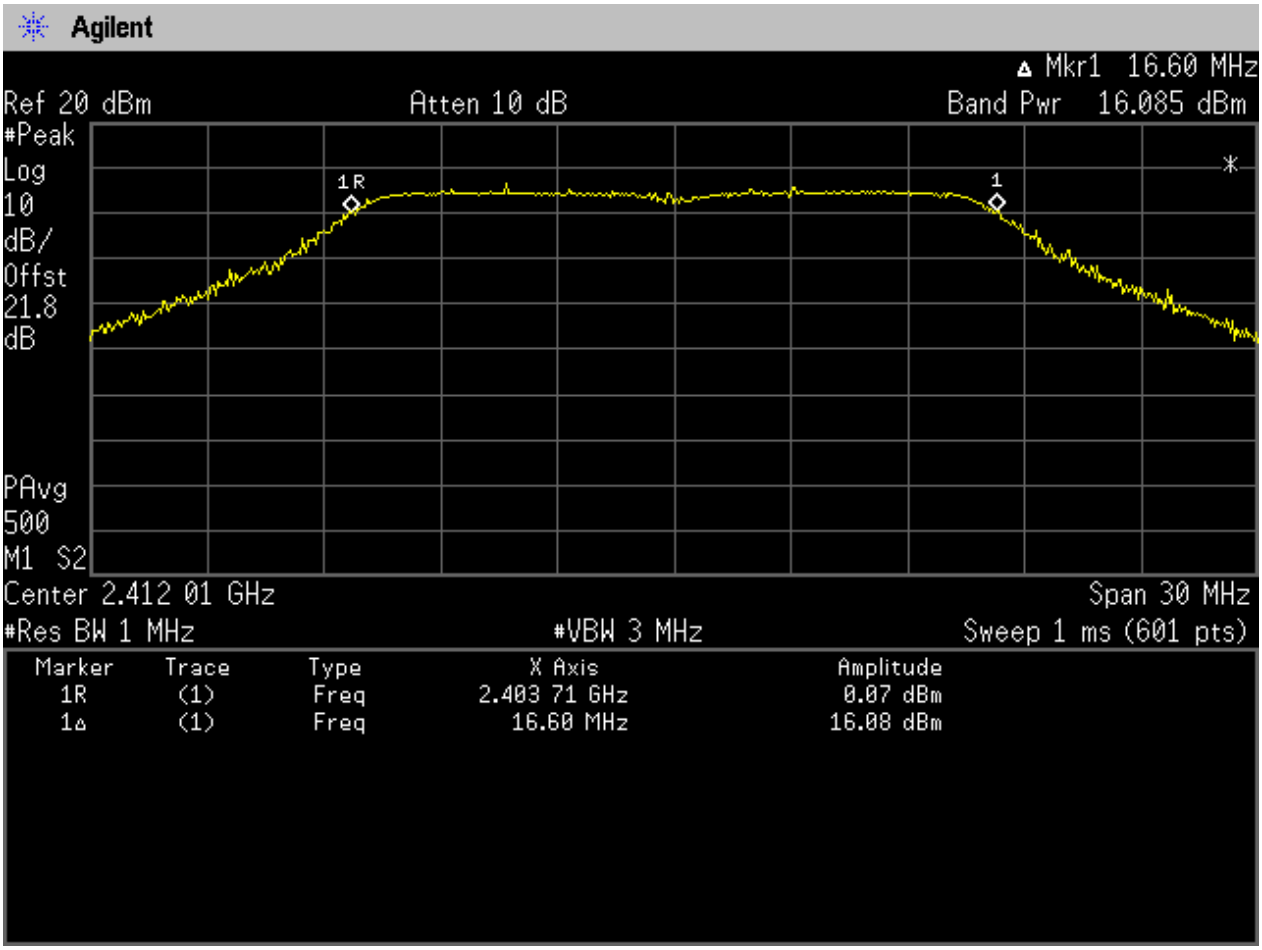

2.10.2 Ant 2

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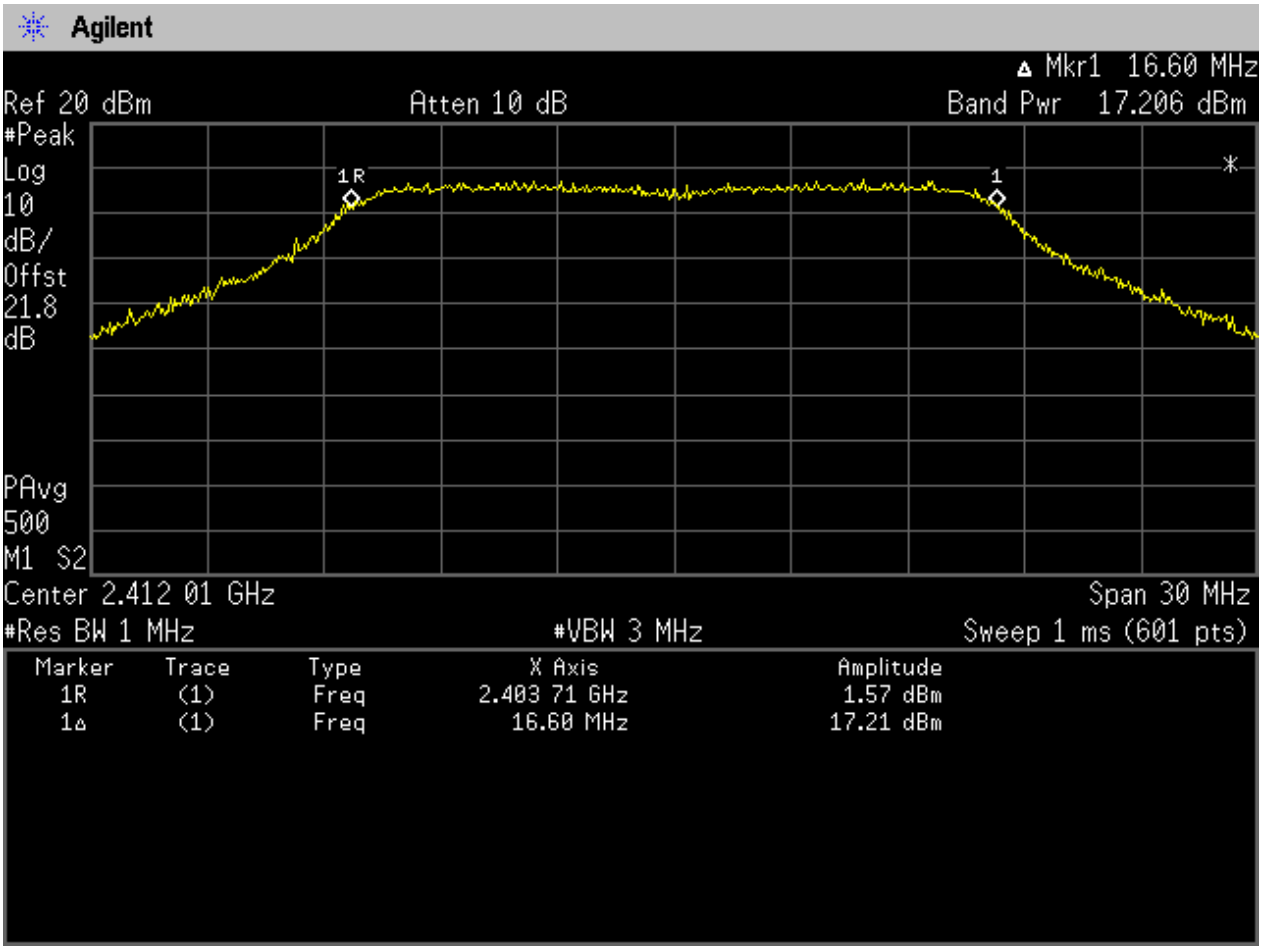

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2.11.1 Ant 1

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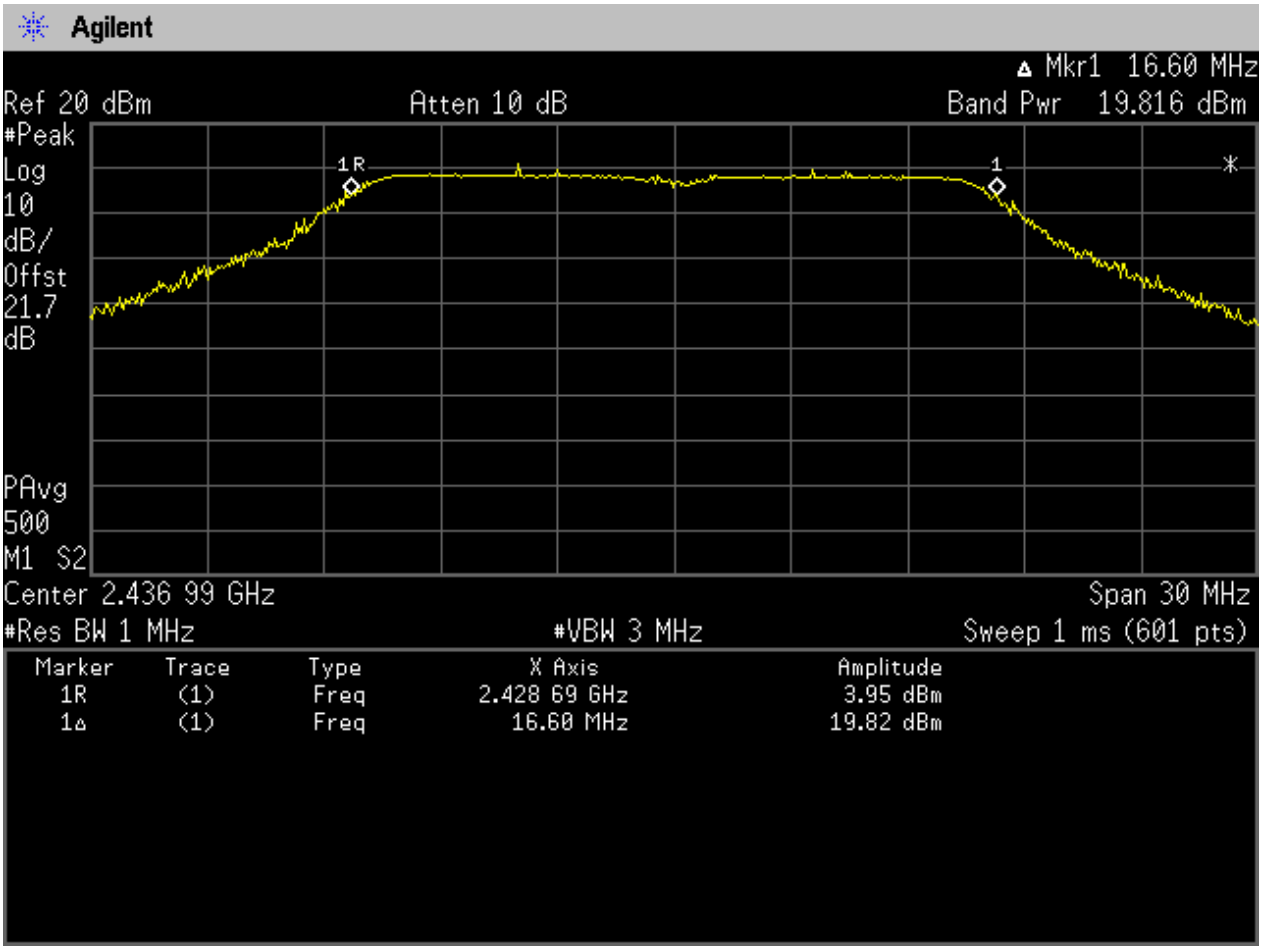

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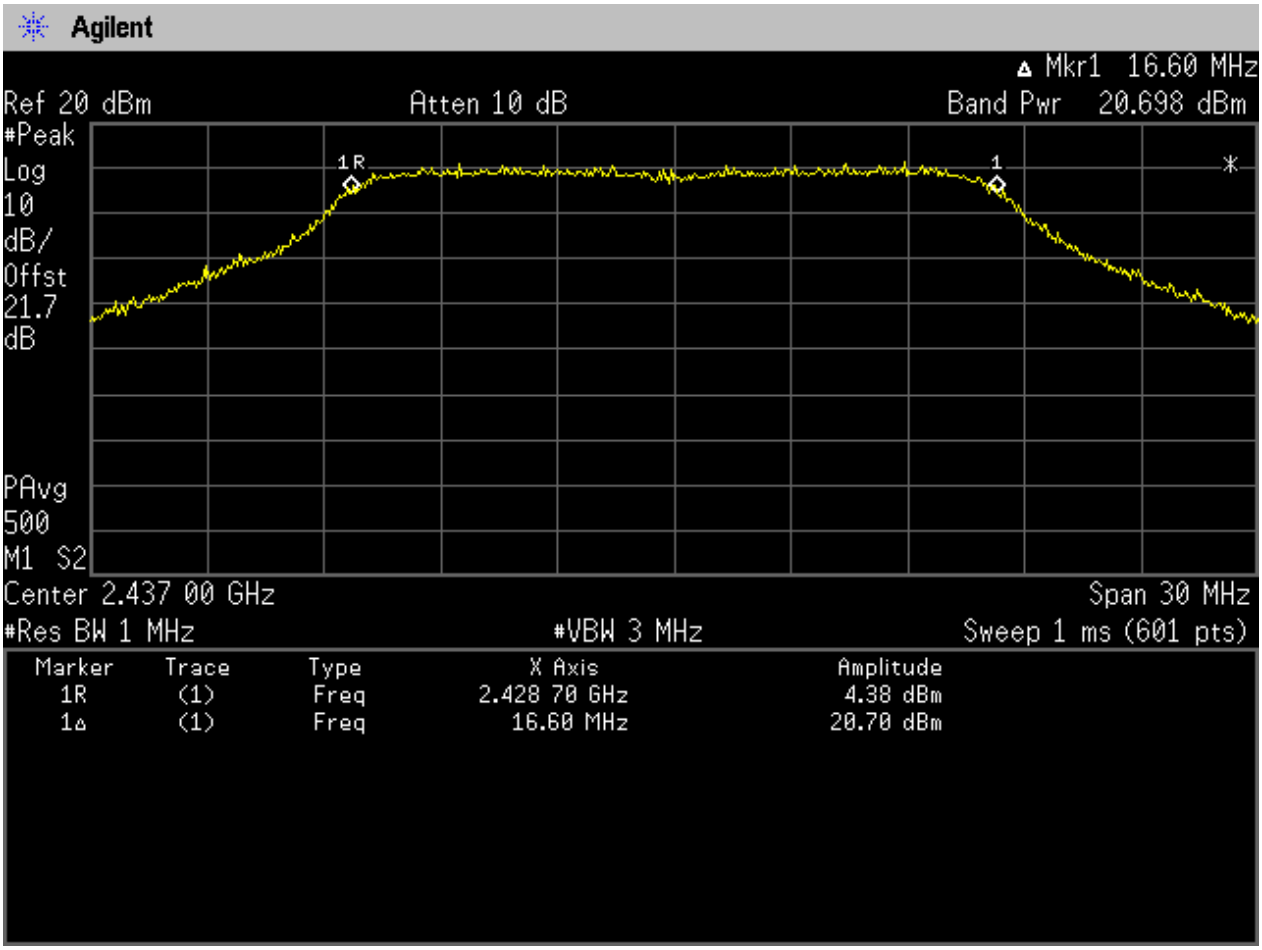

2.1211Gd/6_T@1+2

2.12.1 Ant 1

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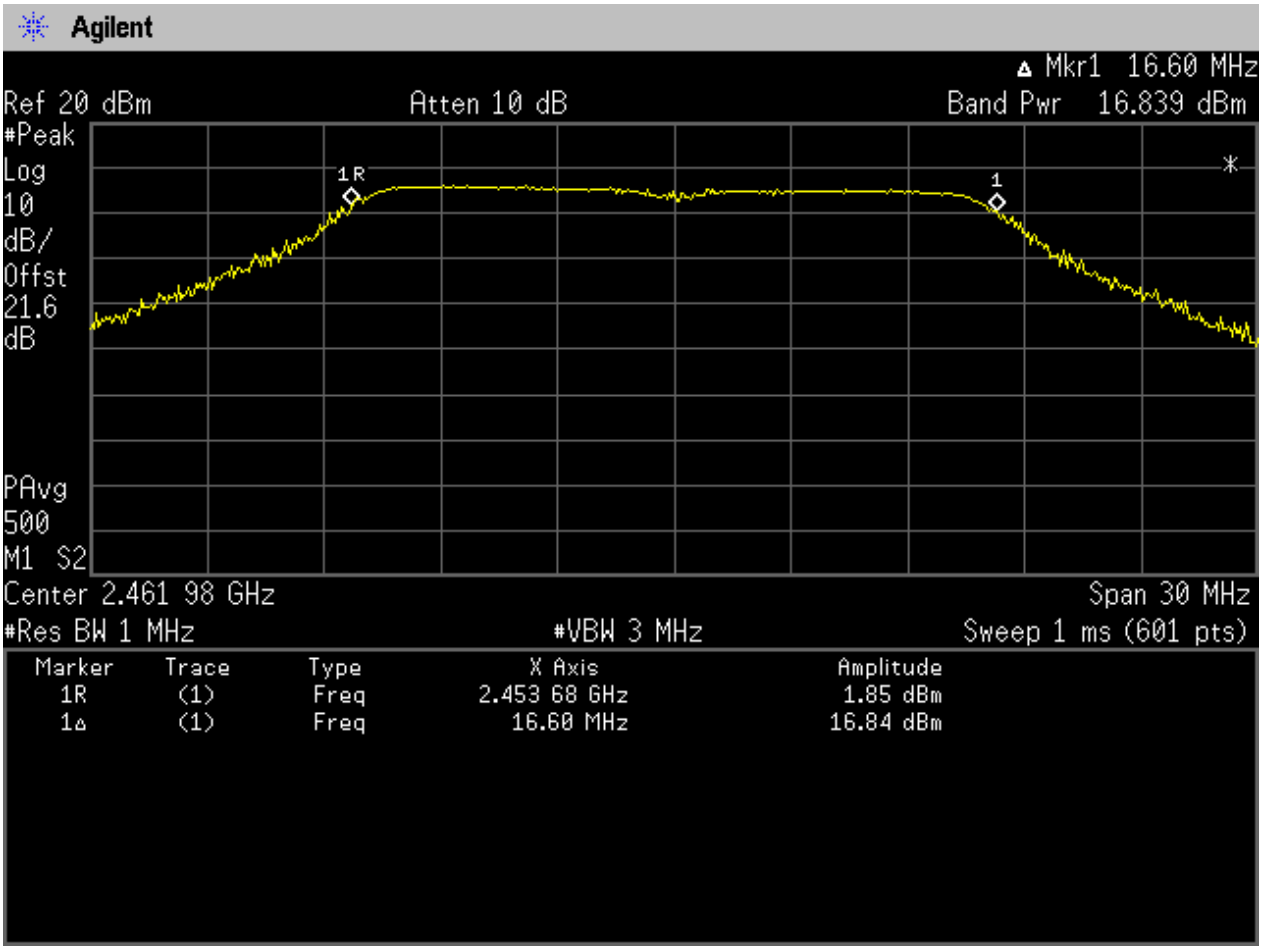

2.12.2 Ant 2

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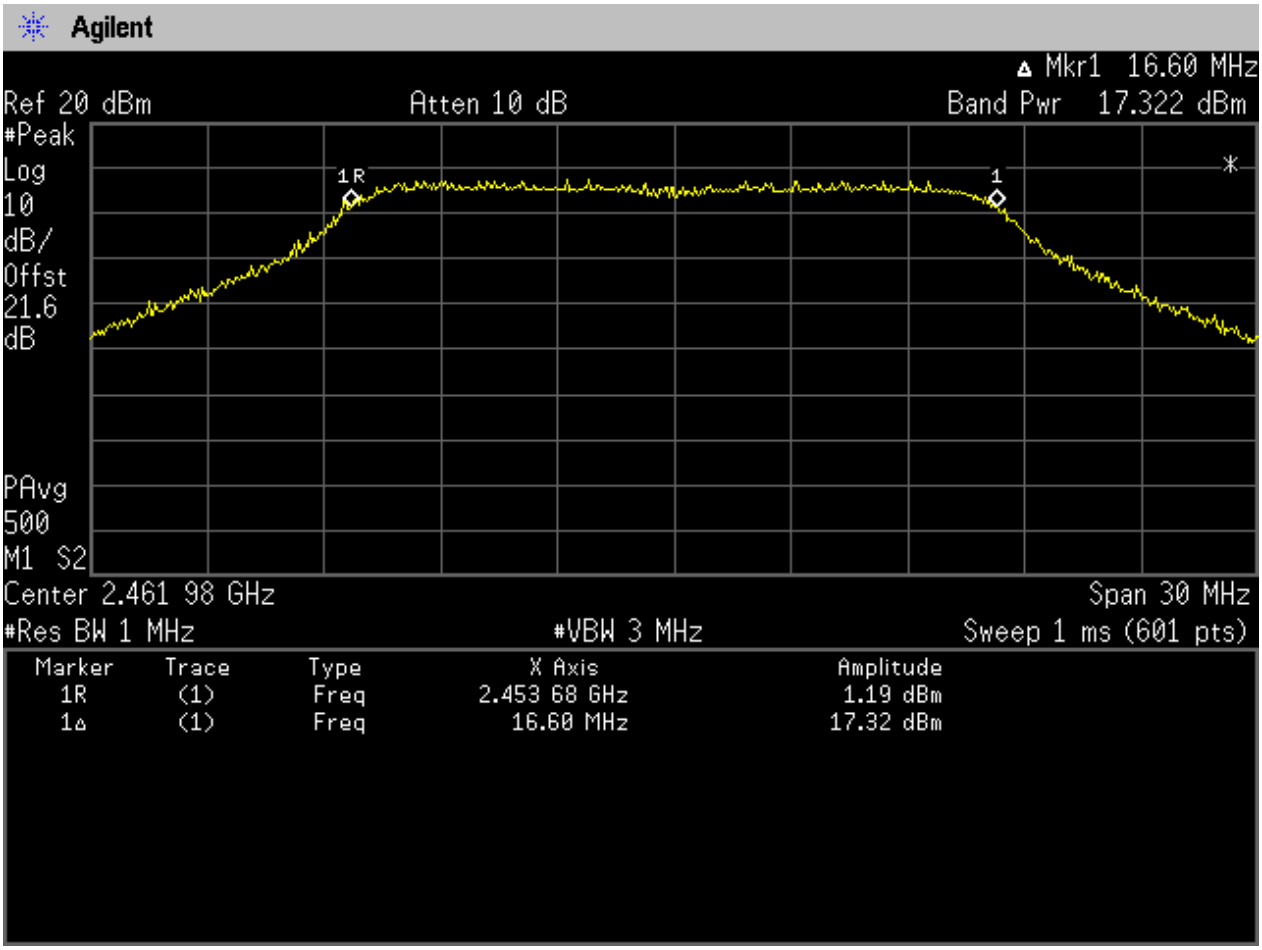

2.1311N20/0_B@1

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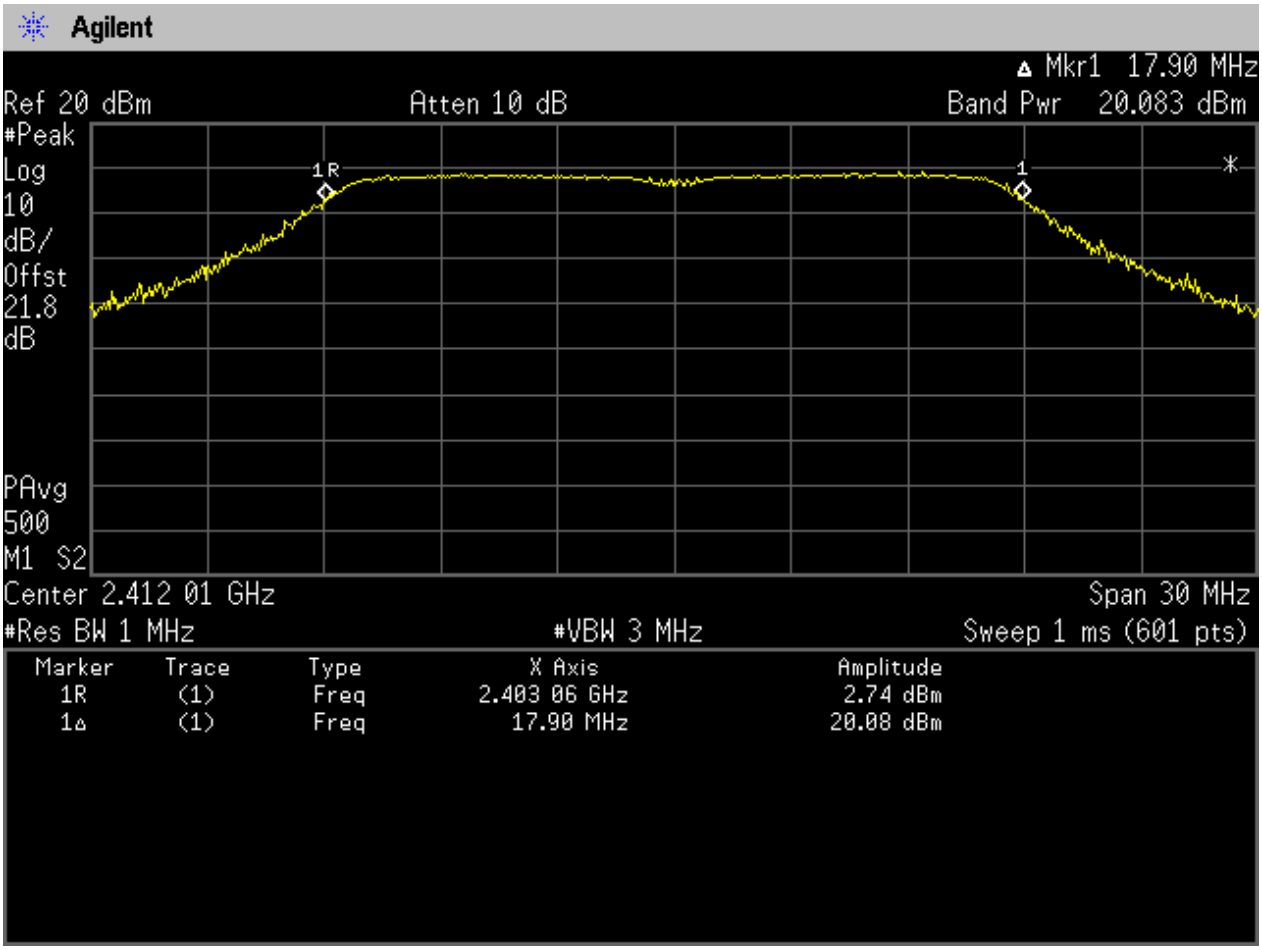

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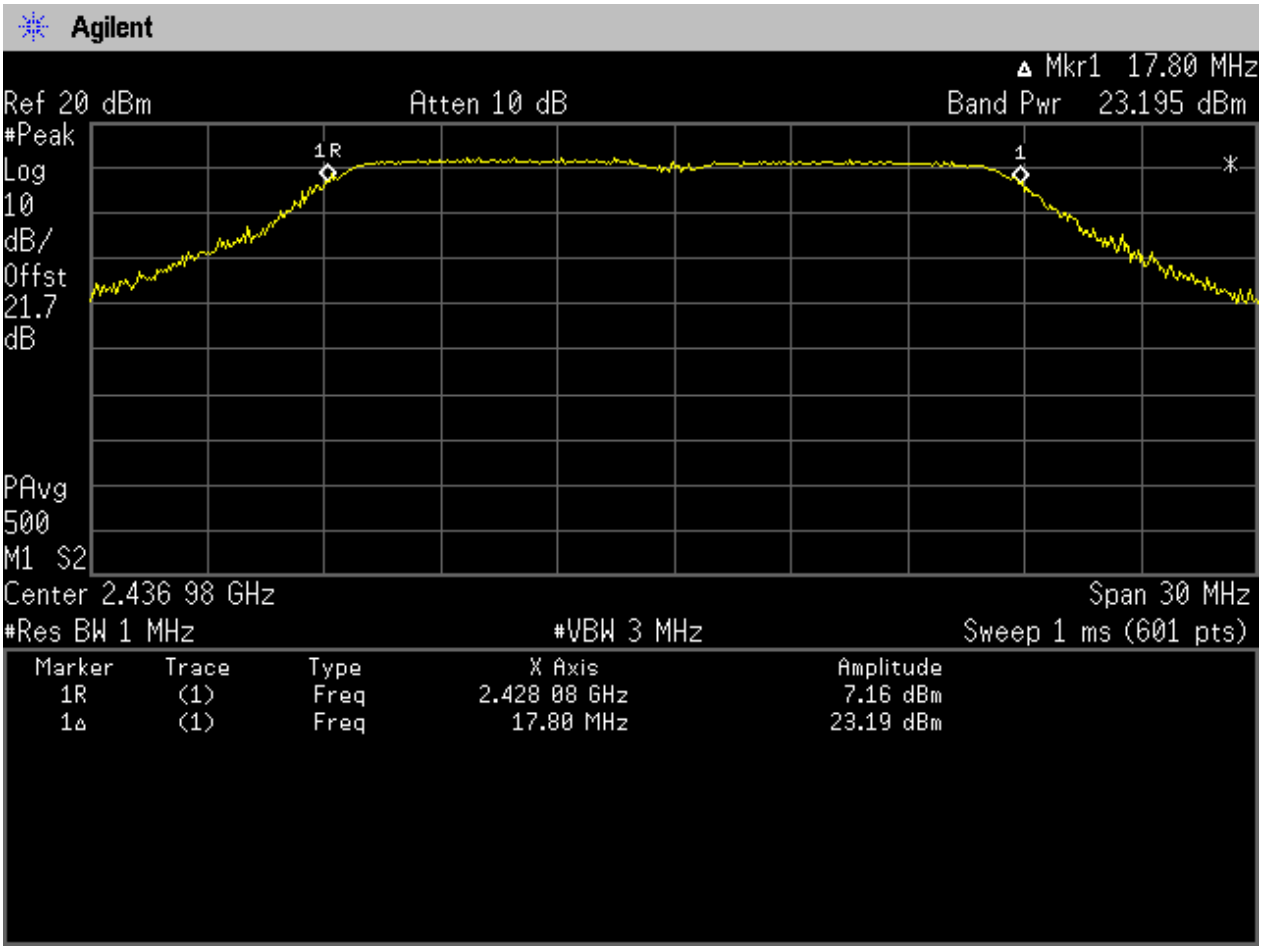

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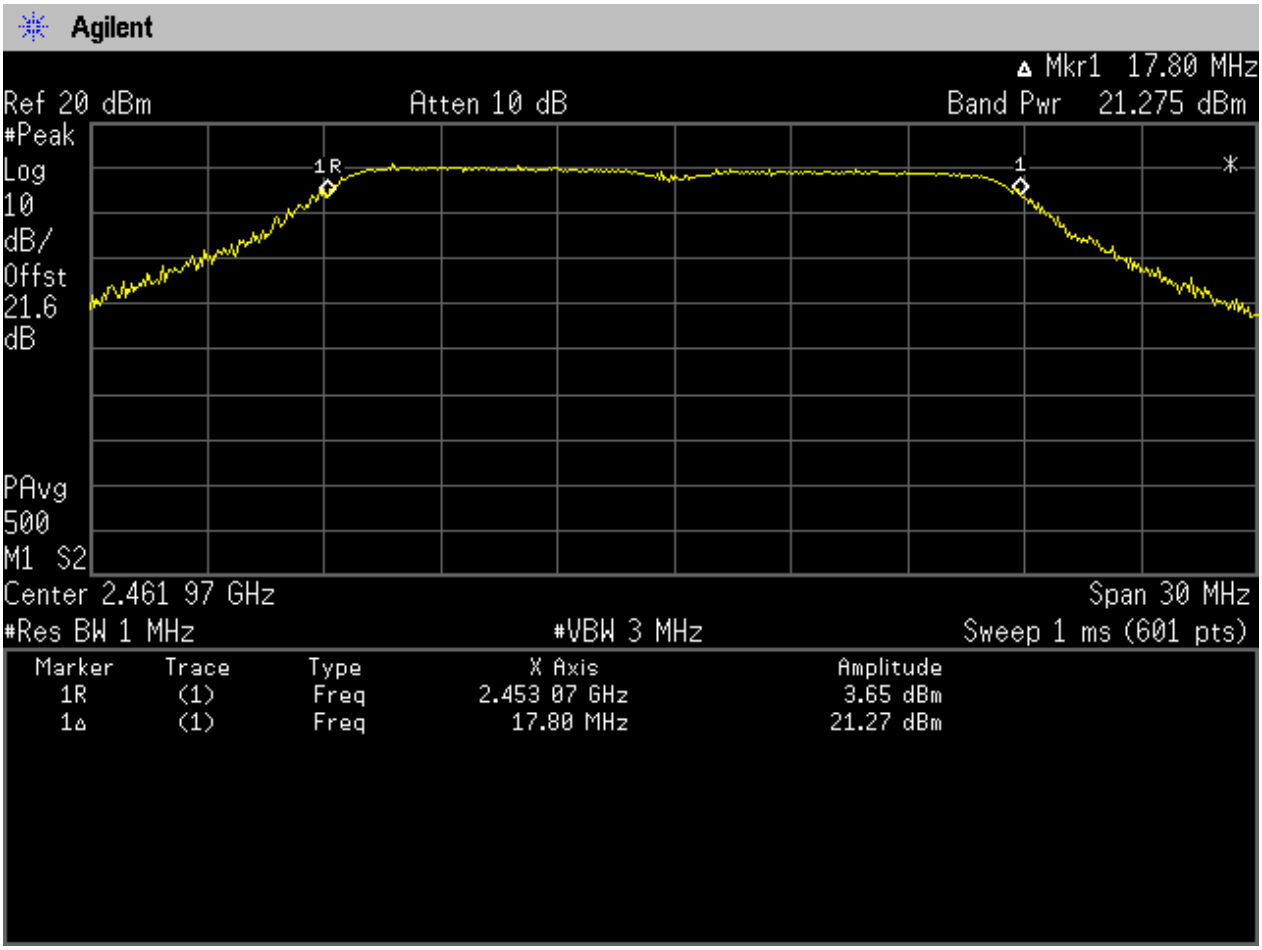

2.1611N20m/8_B@1+2

2.16.1 Ant 1

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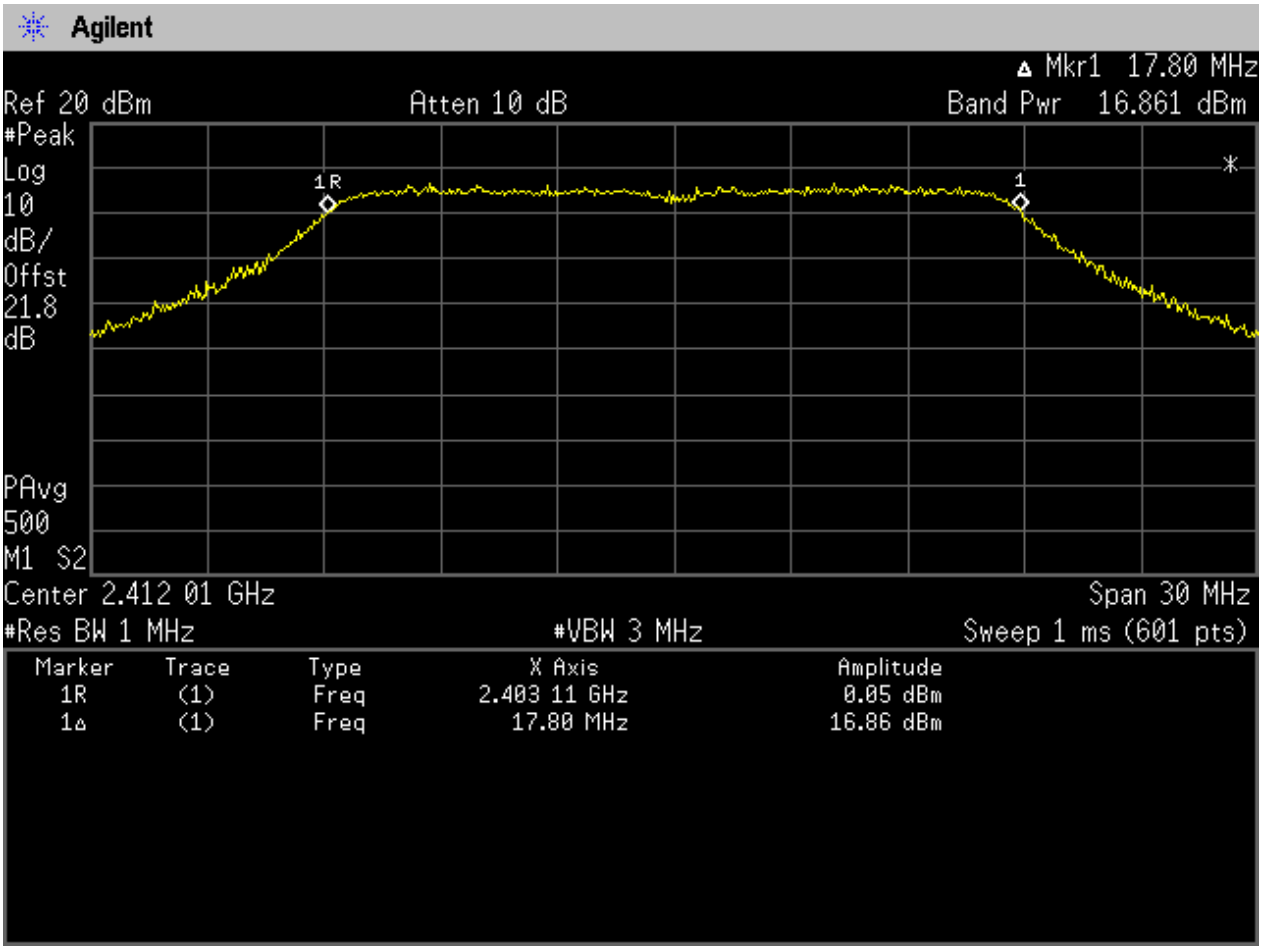

2.16.2 Ant 2

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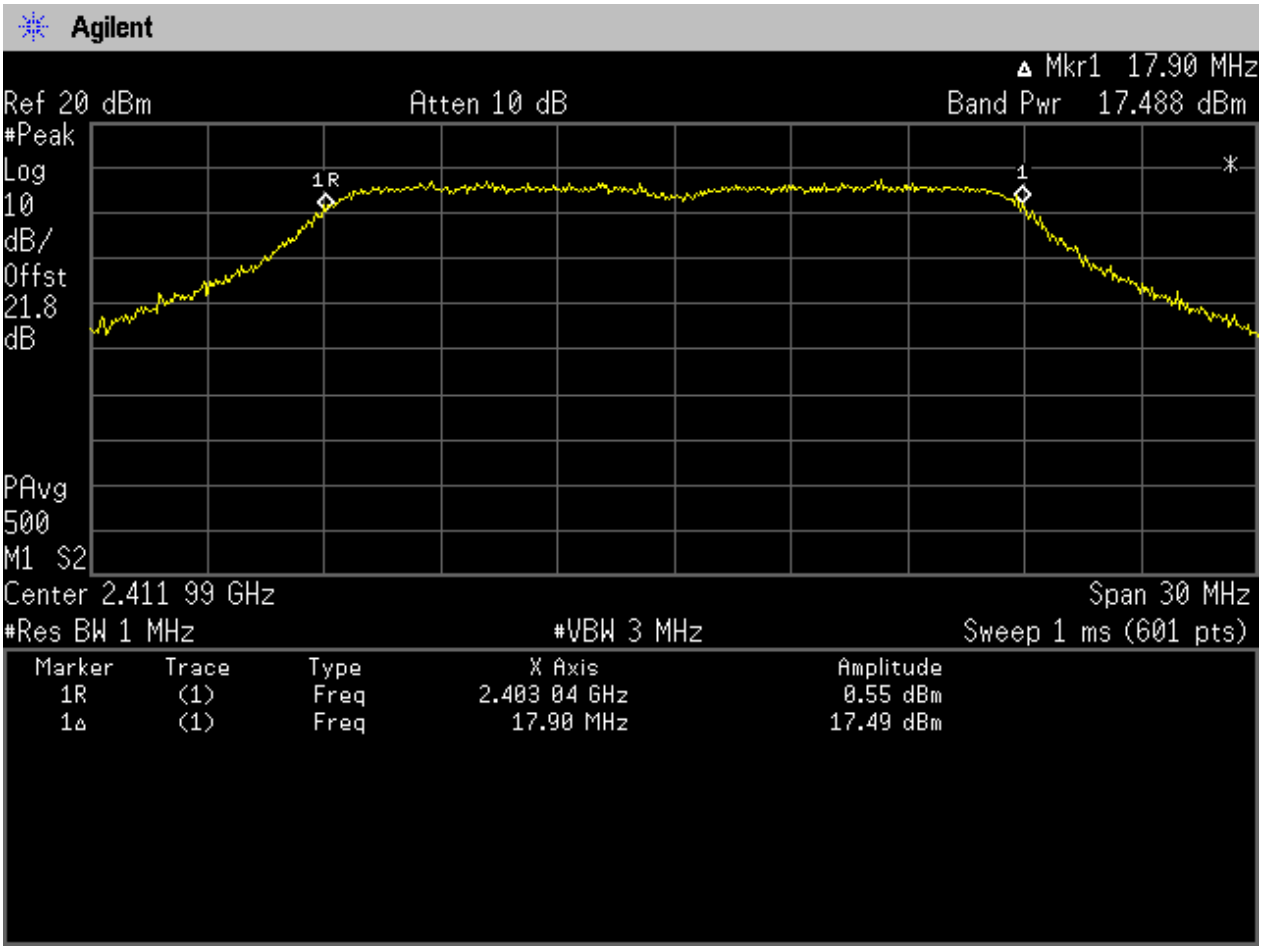

2.1711N20m/8_M@1+2

2.17.1 Ant 1

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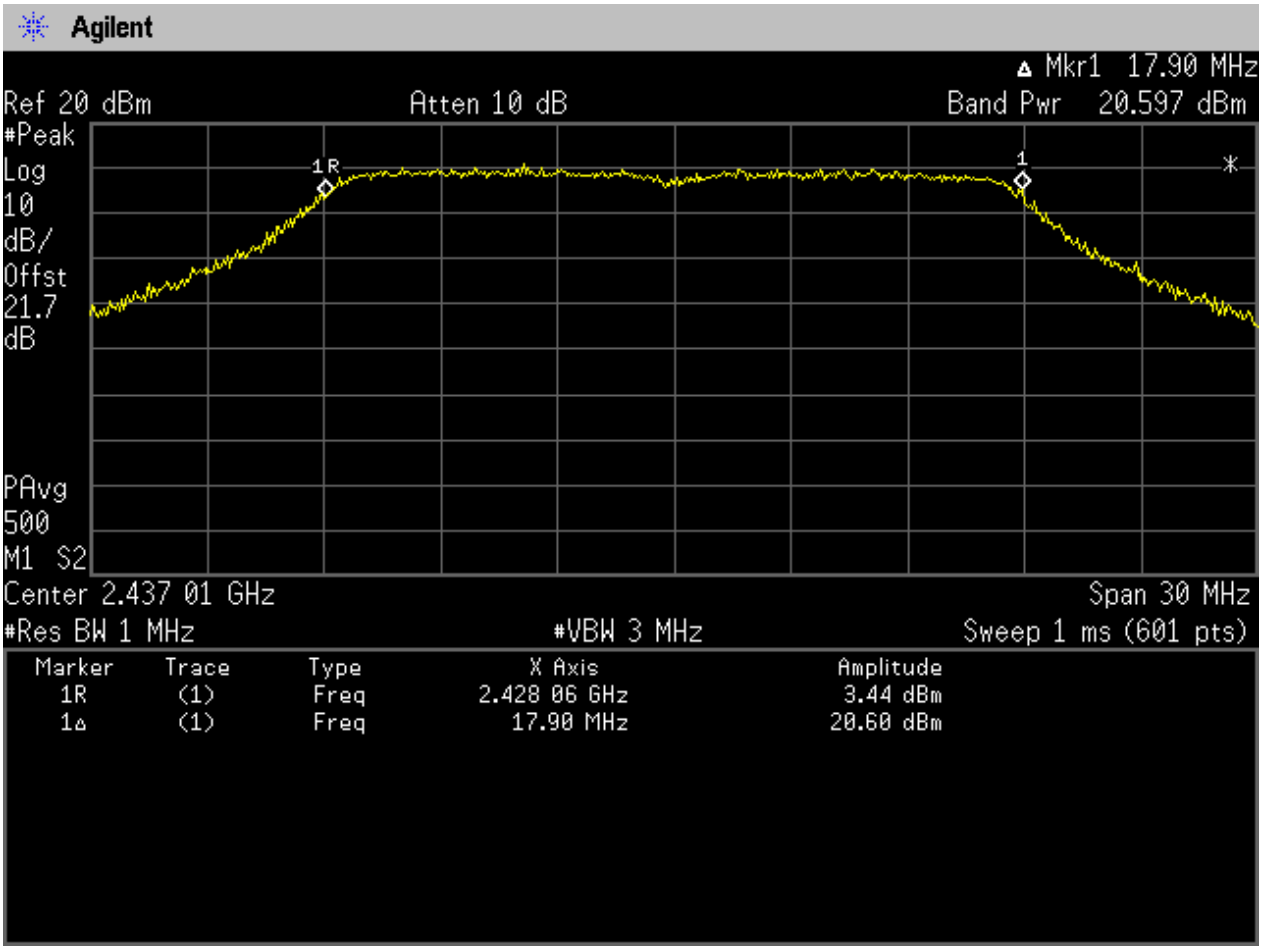

2.17.2 Ant 2

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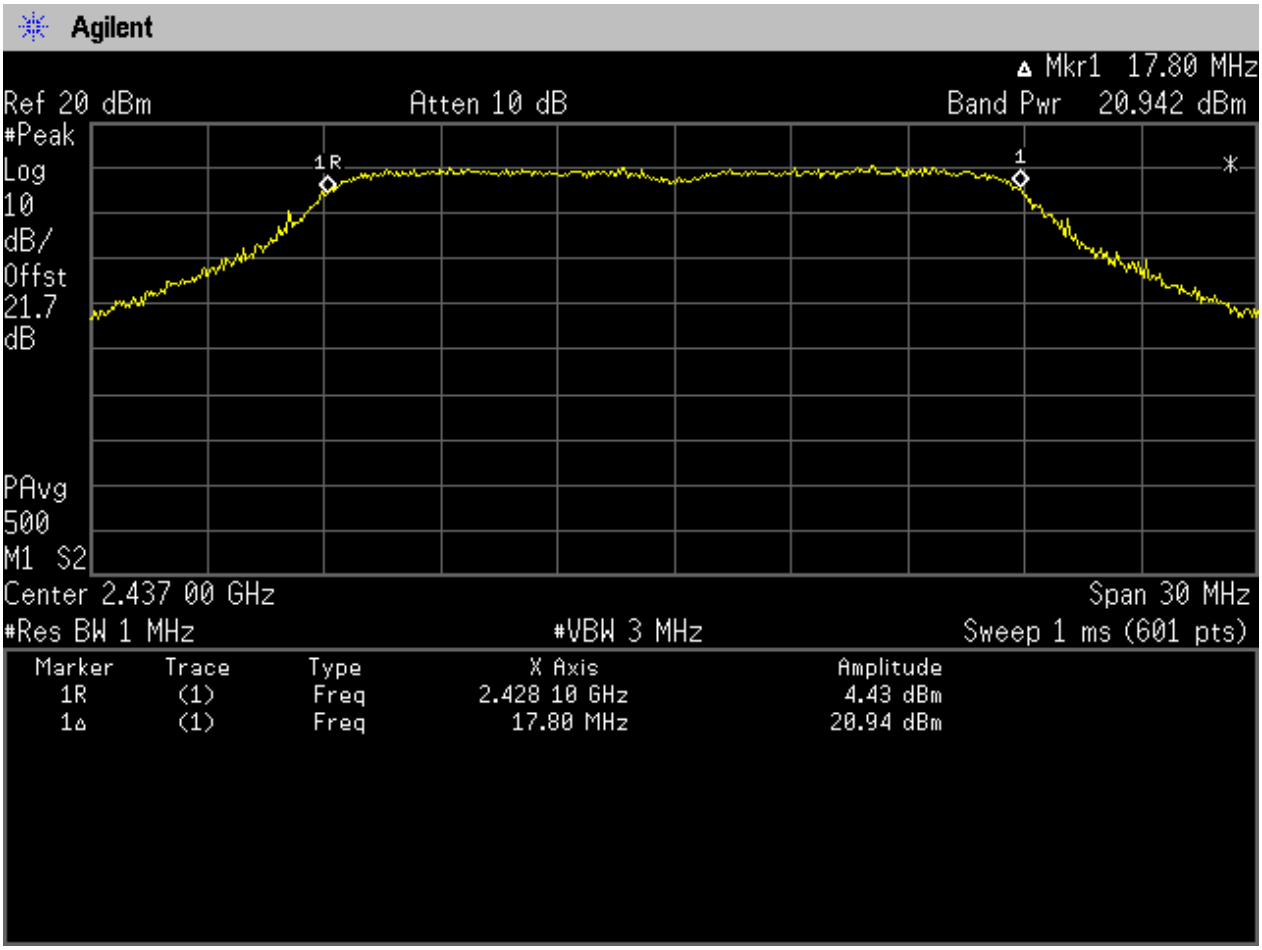

2.1811N20m/8_T@1+2

2.18.1 Ant 1

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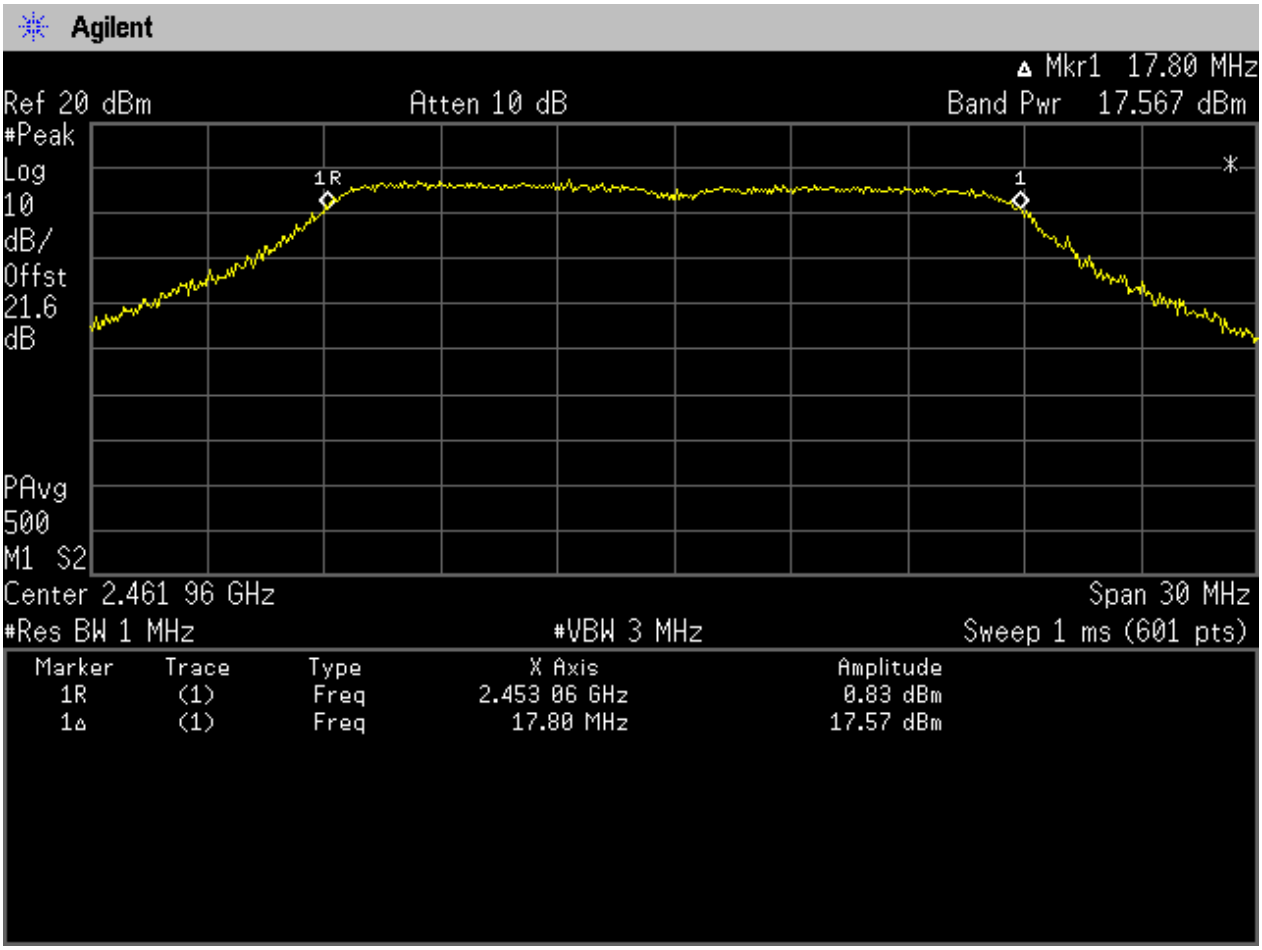

2.18.2 Ant 2

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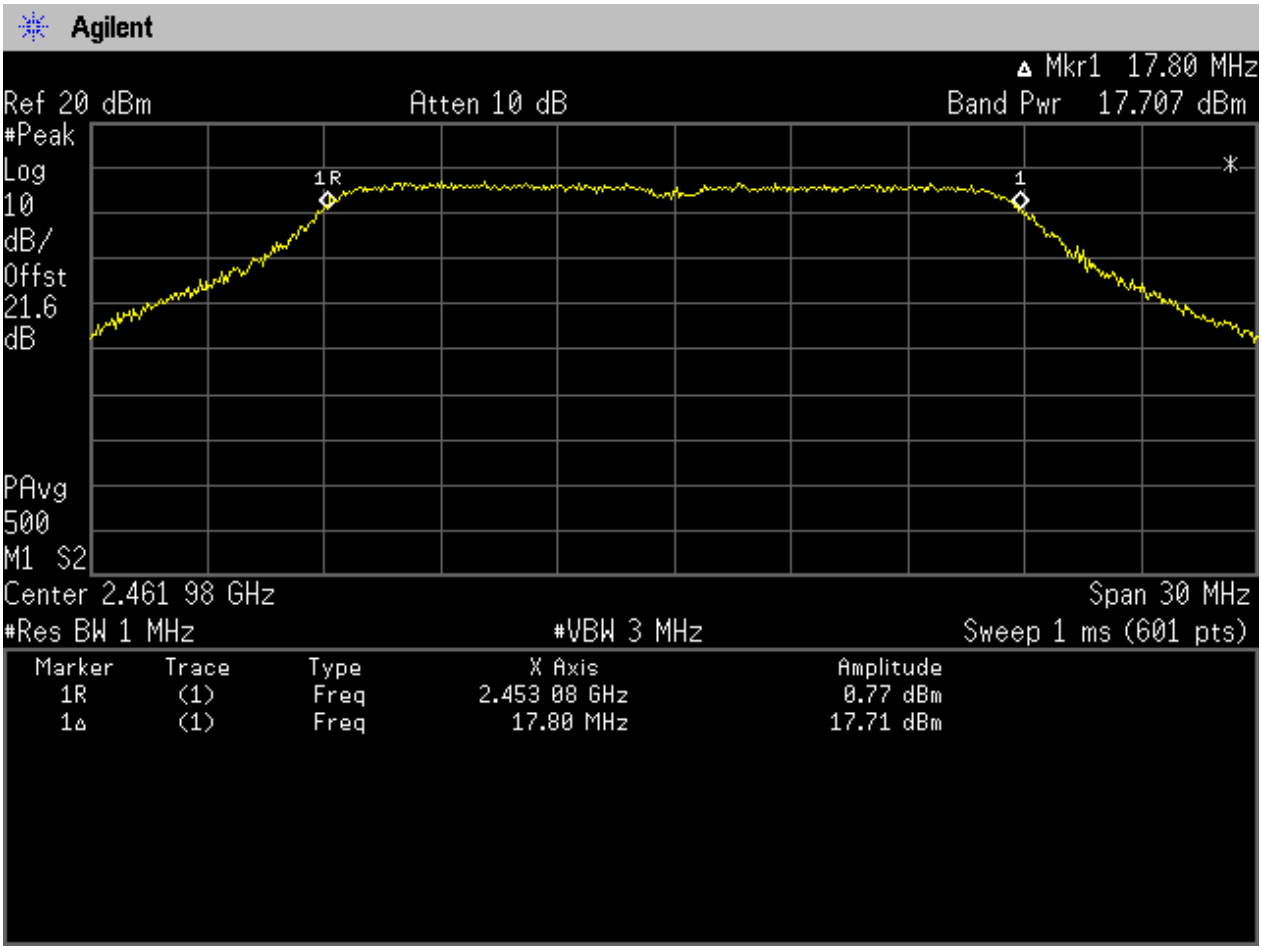

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Appendix D: Maximum Power Spectral Density Level

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In this Appendix, the “PD*” refers to the measured “Maximum Power Spectral Density” value with 100 kHz RBW. The final result “PD” within 3 kHz bandwidth, which is used to compare with the limit requirements, should be adjusted according to: PD [dBm/3 kHz] = PD* [dBm/100 kHz] – 15.2 [dB].

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain as “PD@i [dBm]”, and then combined into the final result “PD [dBm]” to compare with the limit according to: PD [dBm] = 10 x lg(10 ^ (PD@1 [dBm] / 10) + ... + 10 ^ (PD@N [dBm] / 10)) (the N denotes the antenna chains used by smart antenna systems). NOTE that the method is a stringent but convenient consideration, because each “PD@i [dBm]” may be located at different frequency occurrence. For the final judgment, the combination of the final result “PD [dBm]” (Trace#sum) should be performed frequency-by-frequency on the measured spectrum trace for each antenna chain (Trace#i). Unless otherwise specified, the method for final judgment will not be used.

1 Result Table

EUT Conf.	Ant.	PD@i [dBm/3kHz]	PD [dBm/3kHz]	Verdict
11B/1_B@1	Ant 1	1.91	1.91	Pass
11B/1_M@1	Ant 1	4.13	4.13	Pass
11B/1_T@1	Ant 1	3.13	3.13	Pass
11Bd/1_B@1+	Ant 1	-0.44	1.45	Pass
	Ant 2	-3.07		
11Bd/1_M@1+2	Ant 1	-3.82	-0.02	Pass
	Ant 2	-2.36		
11Bd/1_T@1+2	Ant 1	-2.62	0.42	Pass
	Ant 2	-2.57		
11G/6_B@1	Ant 1	-3.29	-3.29	Pass
11G/6_M@1	Ant 1	-0.52	-0.52	Pass
11G/6_T@1	Ant 1	-1.92	-1.92	Pass
11Gd/6_B@1+2	Ant 1	-7.13	-3.75	Pass
	Ant 2	-6.42		
11Gd/6_M@1+2	Ant 1	-2.86	-0.01	Pass
	Ant 2	-3.19		
11Gd/6_T@1+2	Ant 1	-6.09	-3.02	Pass
	Ant 2	-5.98		
11N20/0_B@1	Ant 1	-3.93	-3.93	Pass
11N20/0_M@1	Ant 1	0.12	0.12	Pass
11N20/0_T@1	Ant 1	-2.26	-2.26	Pass
11N20m/8_B@1+2	Ant 1	-7.04	-3.61	Pass
	Ant 2	-6.24		
11N20m/8_M@1+2	Ant 1	-2.32	0.95	Pass
	Ant 2	-1.81		
11N20m/8_T@1+2	Ant 1	-5.06	-2.24	Pass

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EUT Conf.	Ant.	PD@i [dBm/3kHz]	PD [dBm/3kHz]	Verdict
	Ant 2	-5.45		
(**): The method for final judgment is used for this configuration.				

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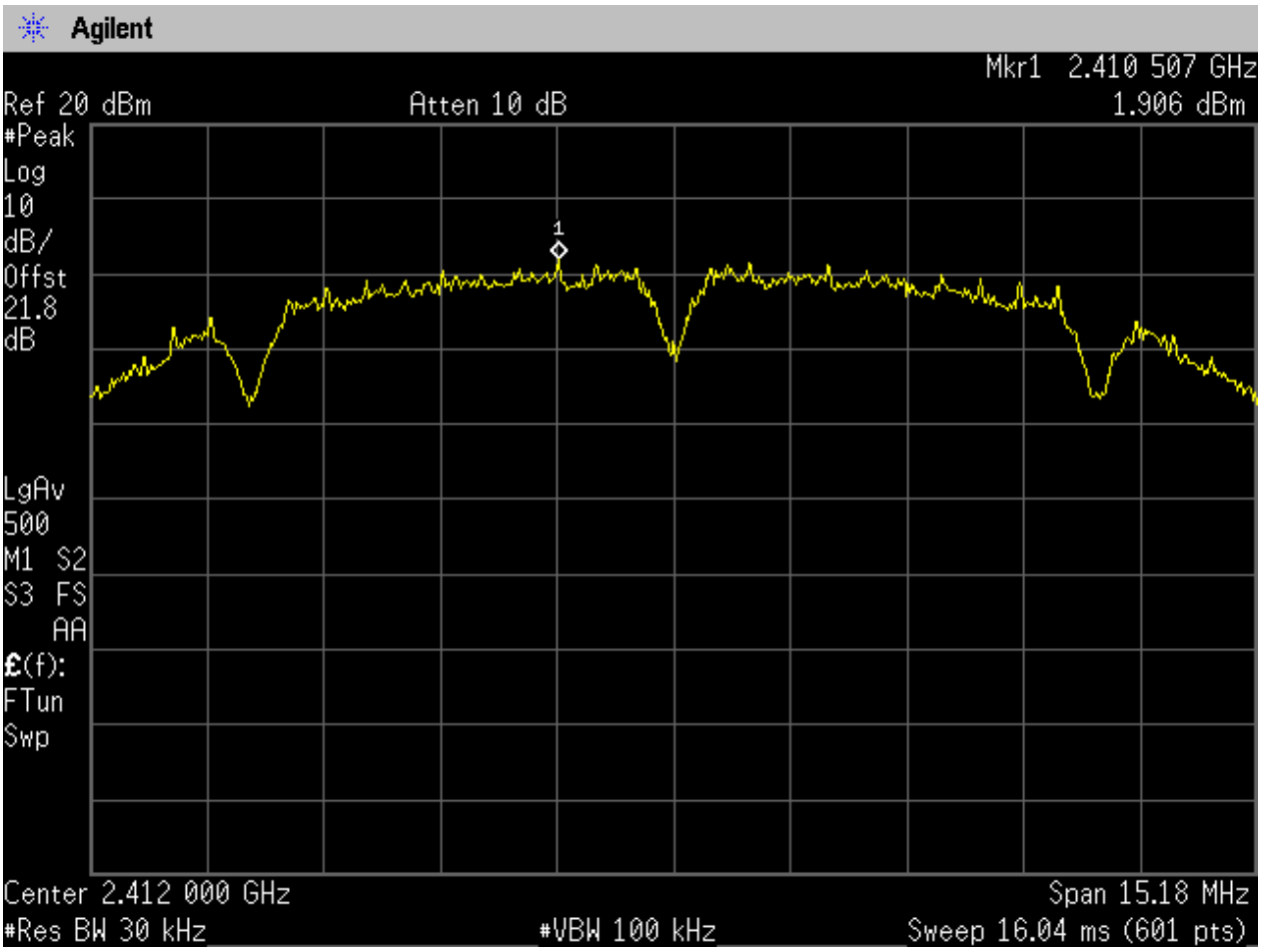
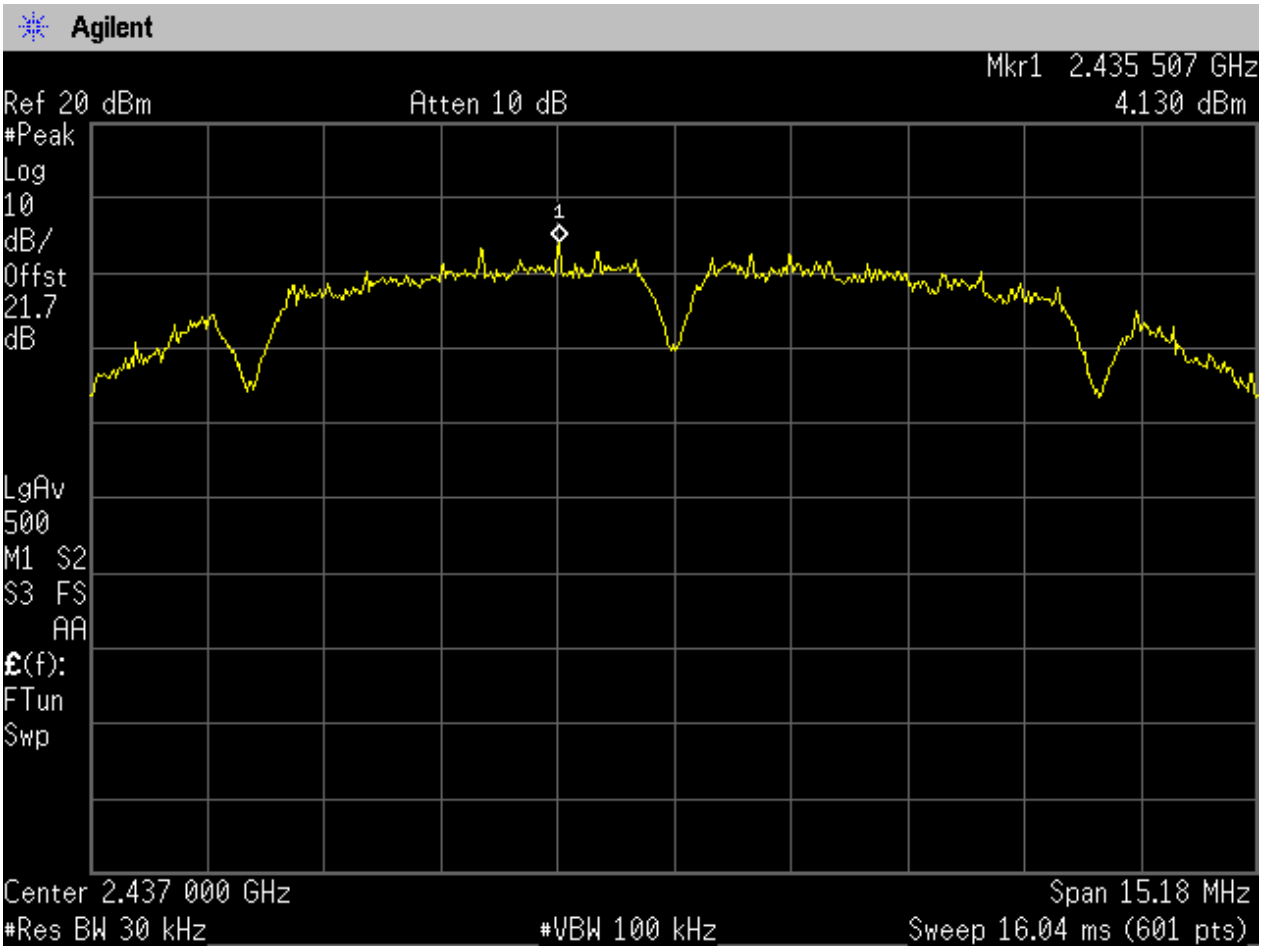
2 Test Plot

2.1 11B/1_B@1



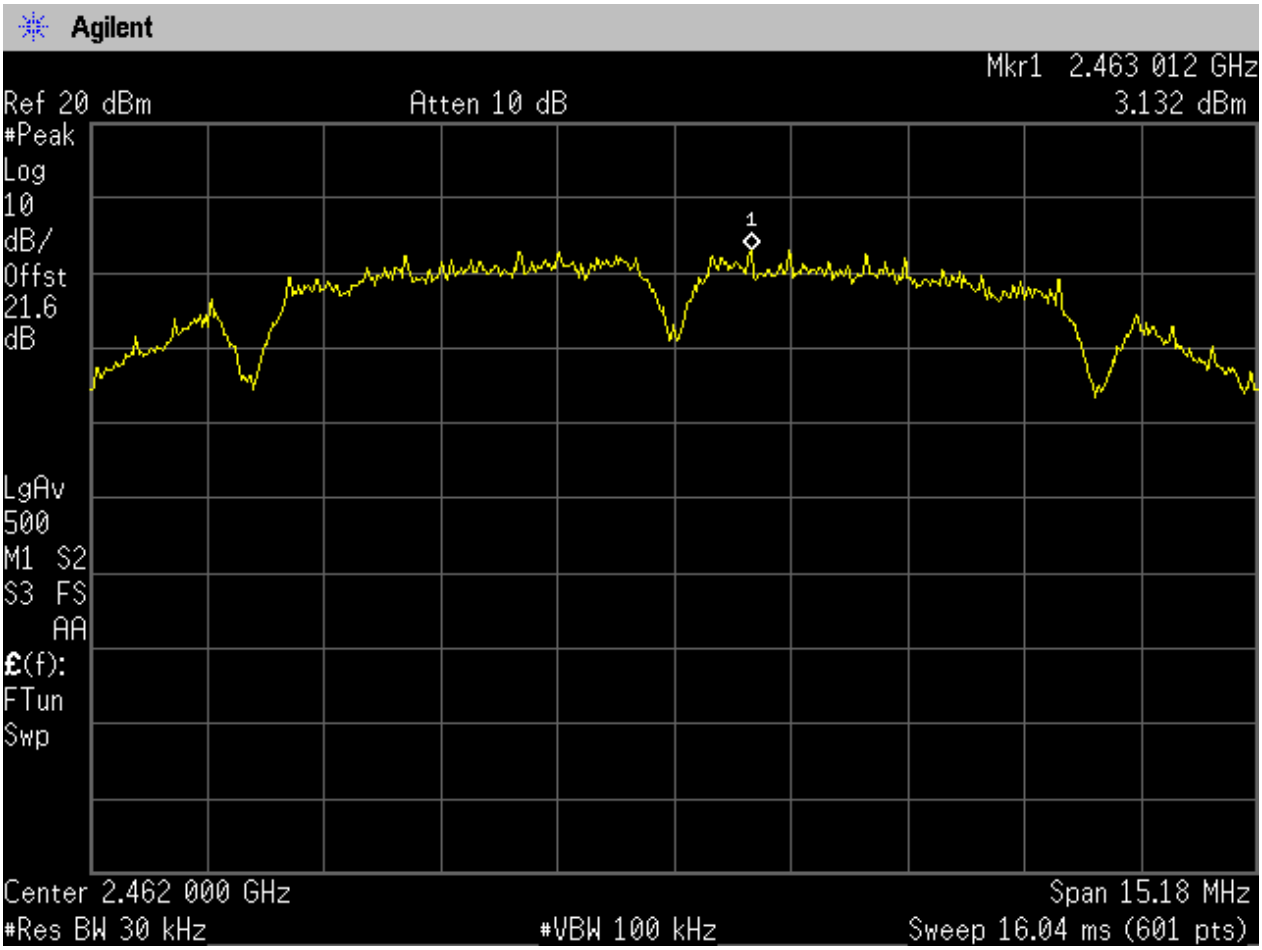
2.2 11B/1_M@1

Copyright © Huawei Technologies Co., Ltd.



2.3 11B/1_T@1

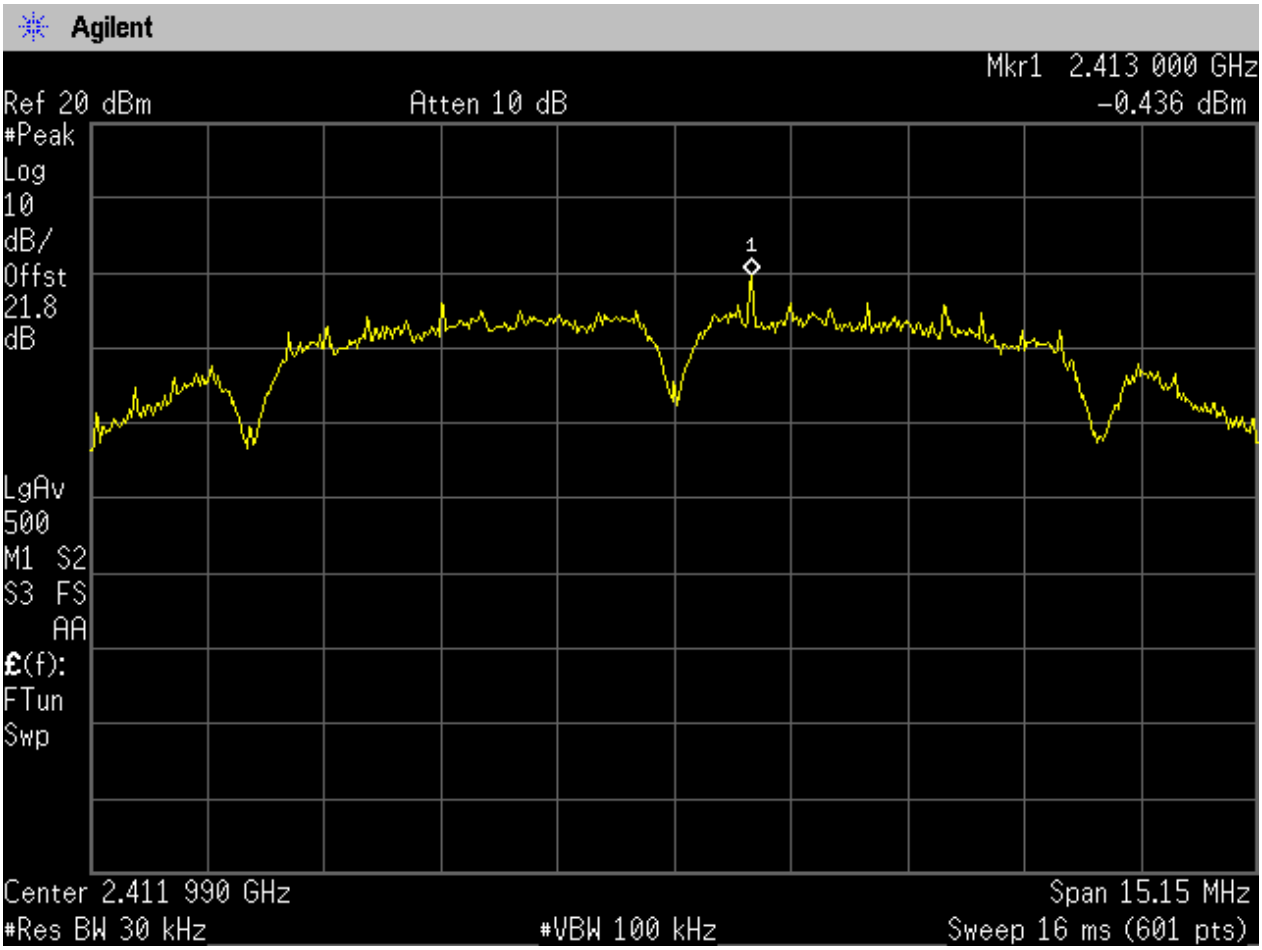
Copyright © Huawei Technologies Co., Ltd.



2.4 11Bd/1_B@1+2

2.4.1 Ant 1 (Trace#1)

Copyright © Huawei Technologies Co., Ltd.



2.4.2 Ant 2 (Trace#2)

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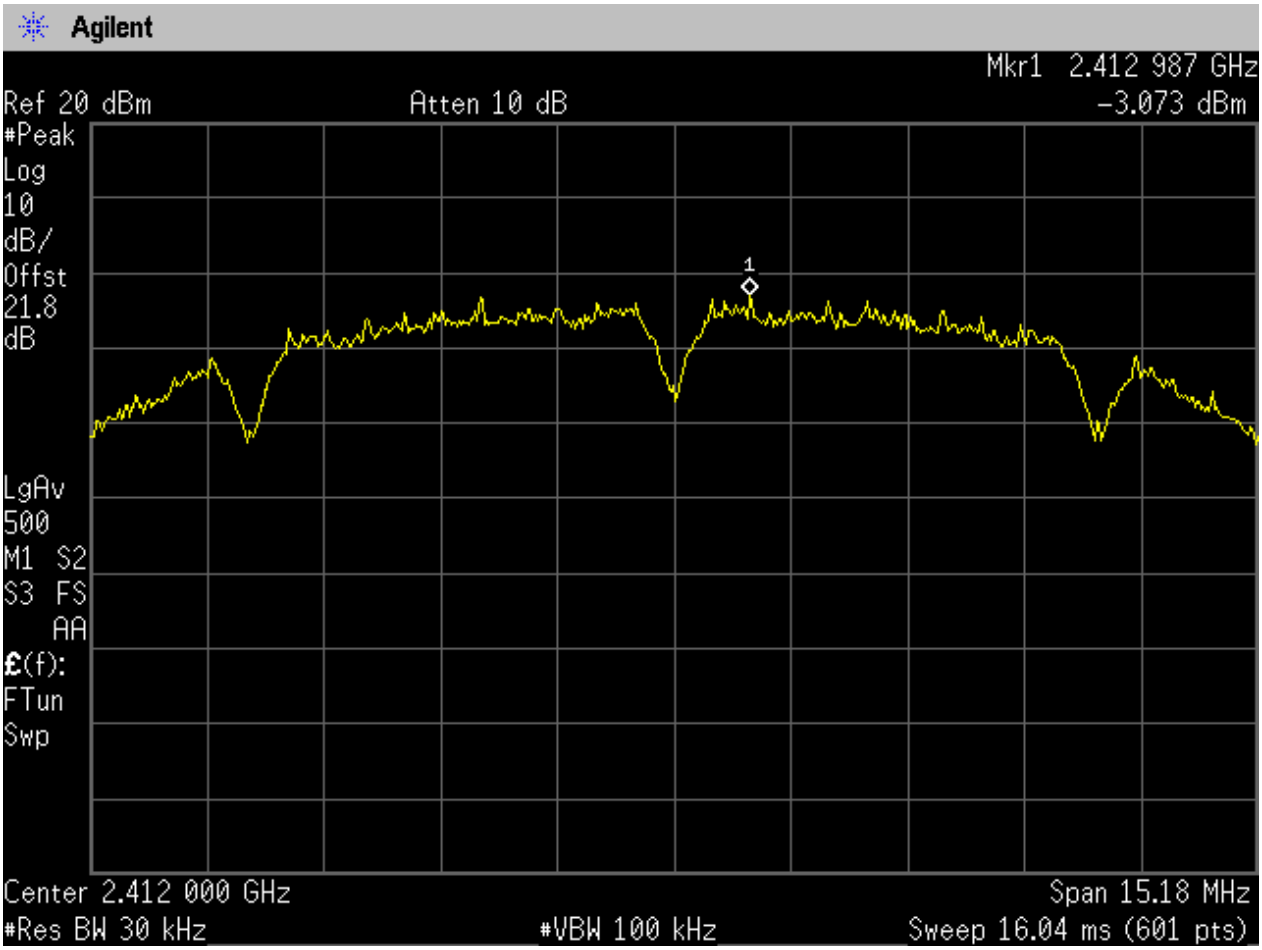


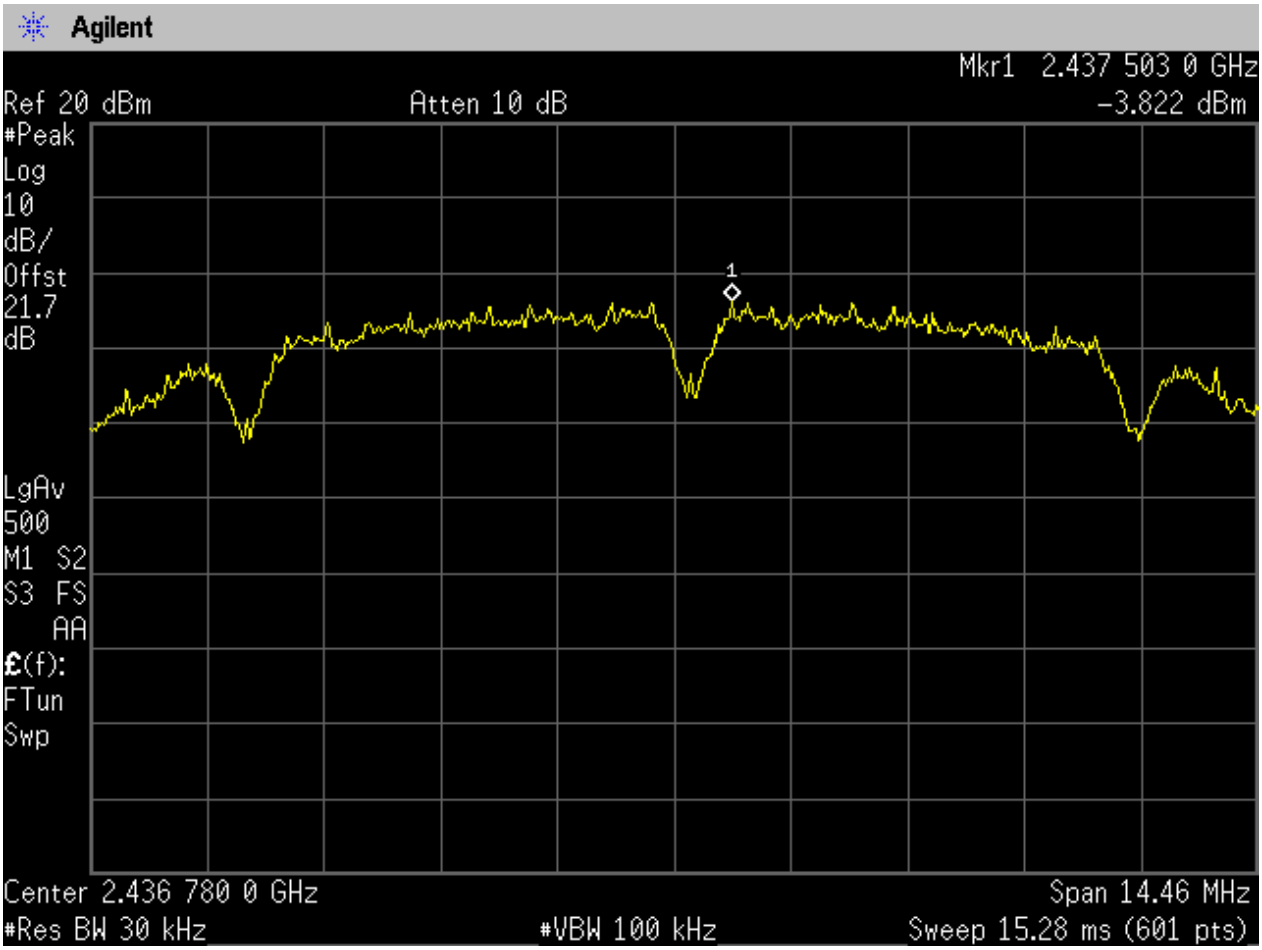
2.4.3 Trace#sum (if needed for final judgment)

(Not applicable)

2.5 11Bd/1_M@1+2

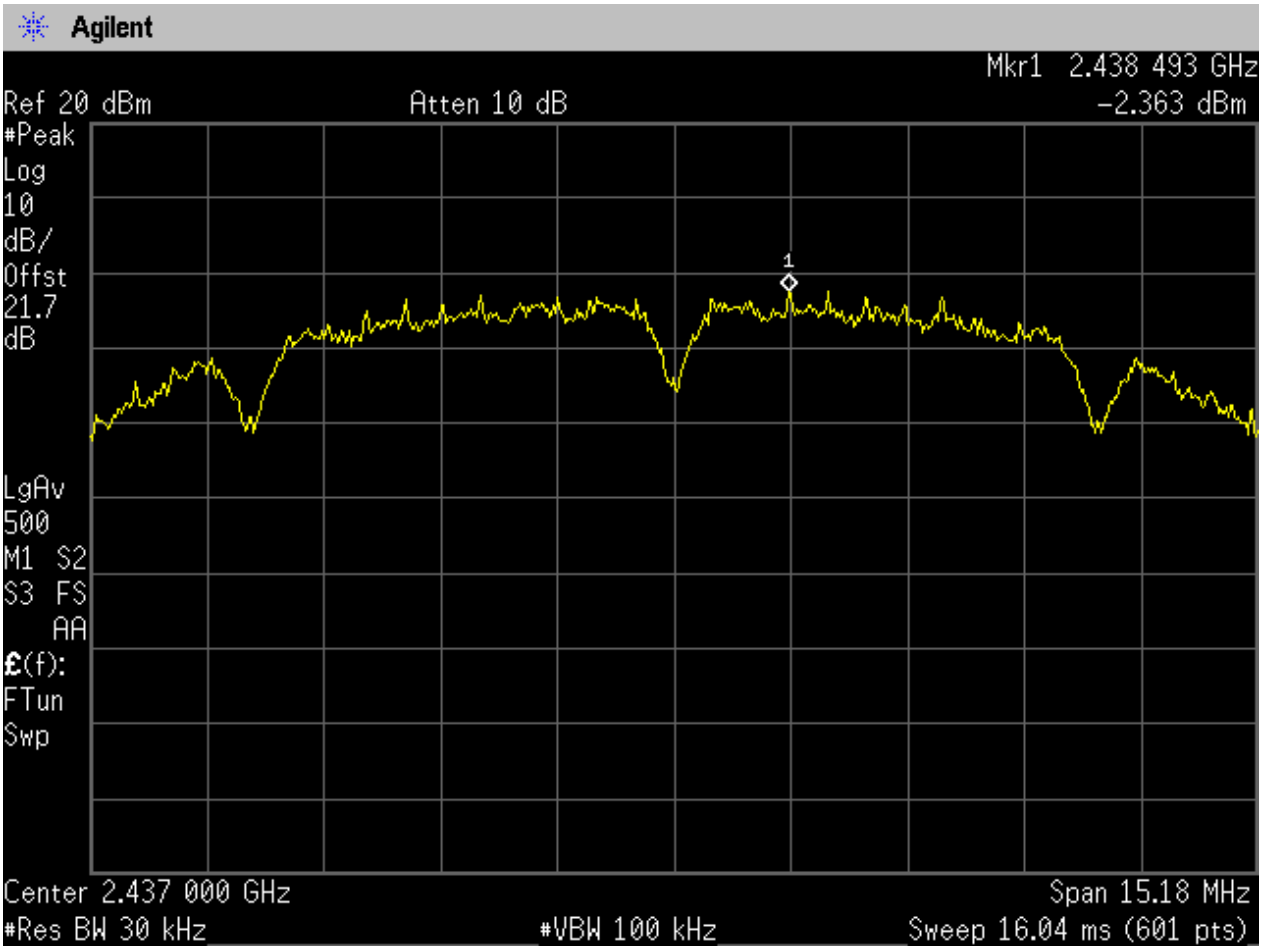
2.5.1 Ant 1 (Trace#1)

Copyright © Huawei Technologies Co., Ltd.



2.5.2 Ant 2 (Trace#2)

Copyright © Huawei Technologies Co., Ltd.



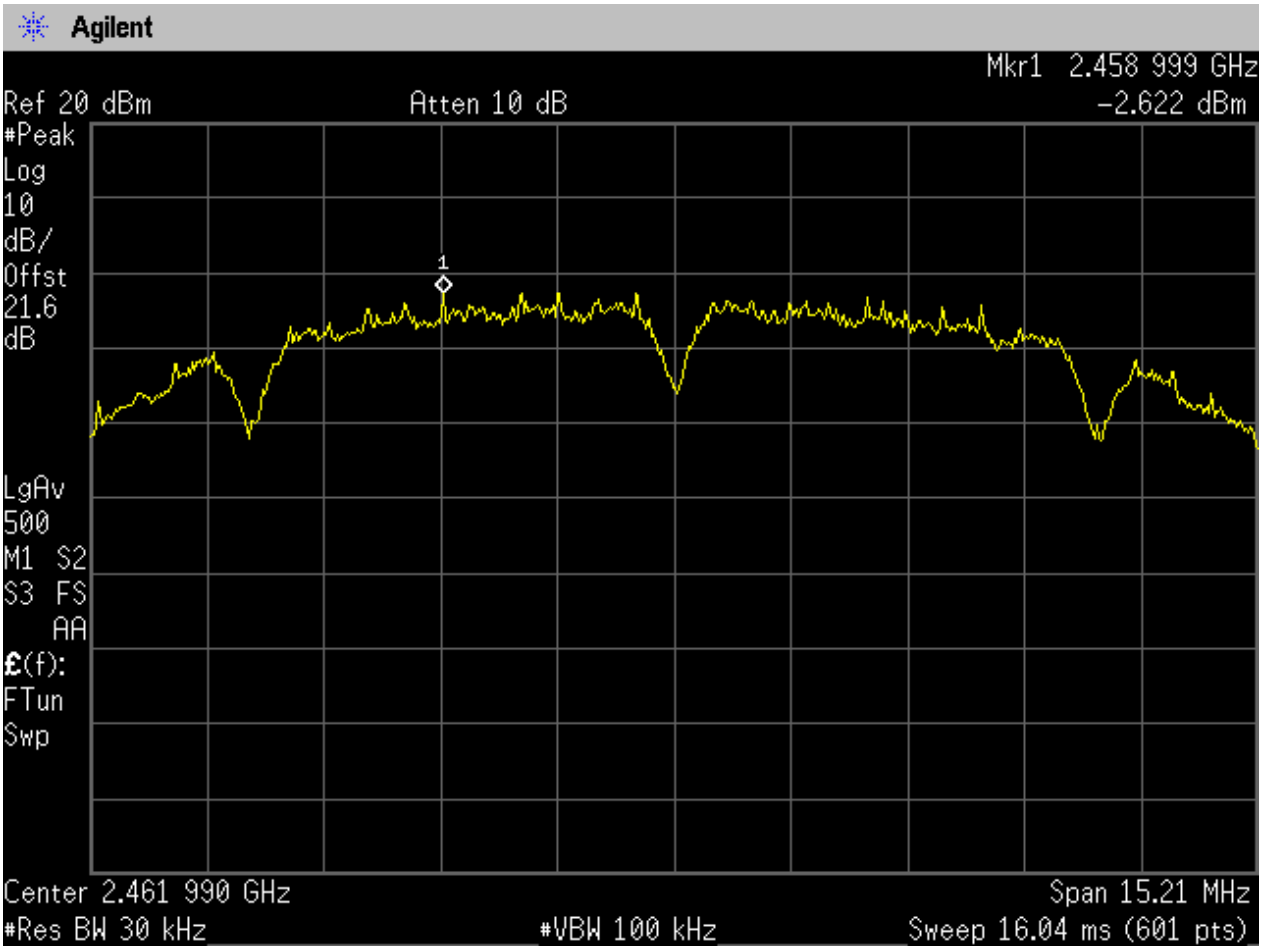
2.5.3 Trace#sum (if needed for final judgment)

(Not applicable)

2.6 11Bd/1_T@1+2

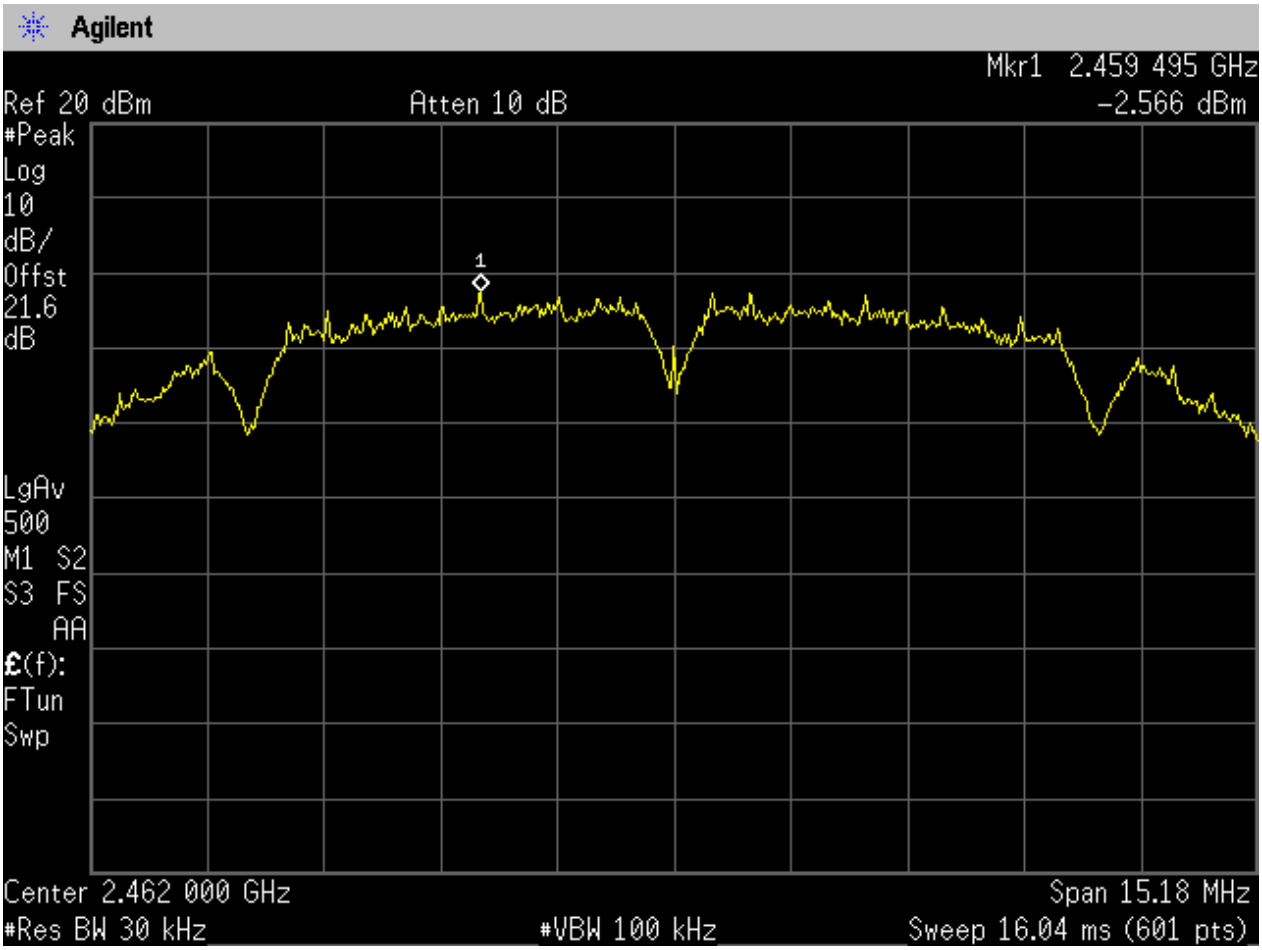
2.6.1 Ant 1 (Trace#1)

Copyright © Huawei Technologies Co., Ltd.



2.6.2 Ant 2 (Trace#2)

Copyright © Huawei Technologies Co., Ltd.

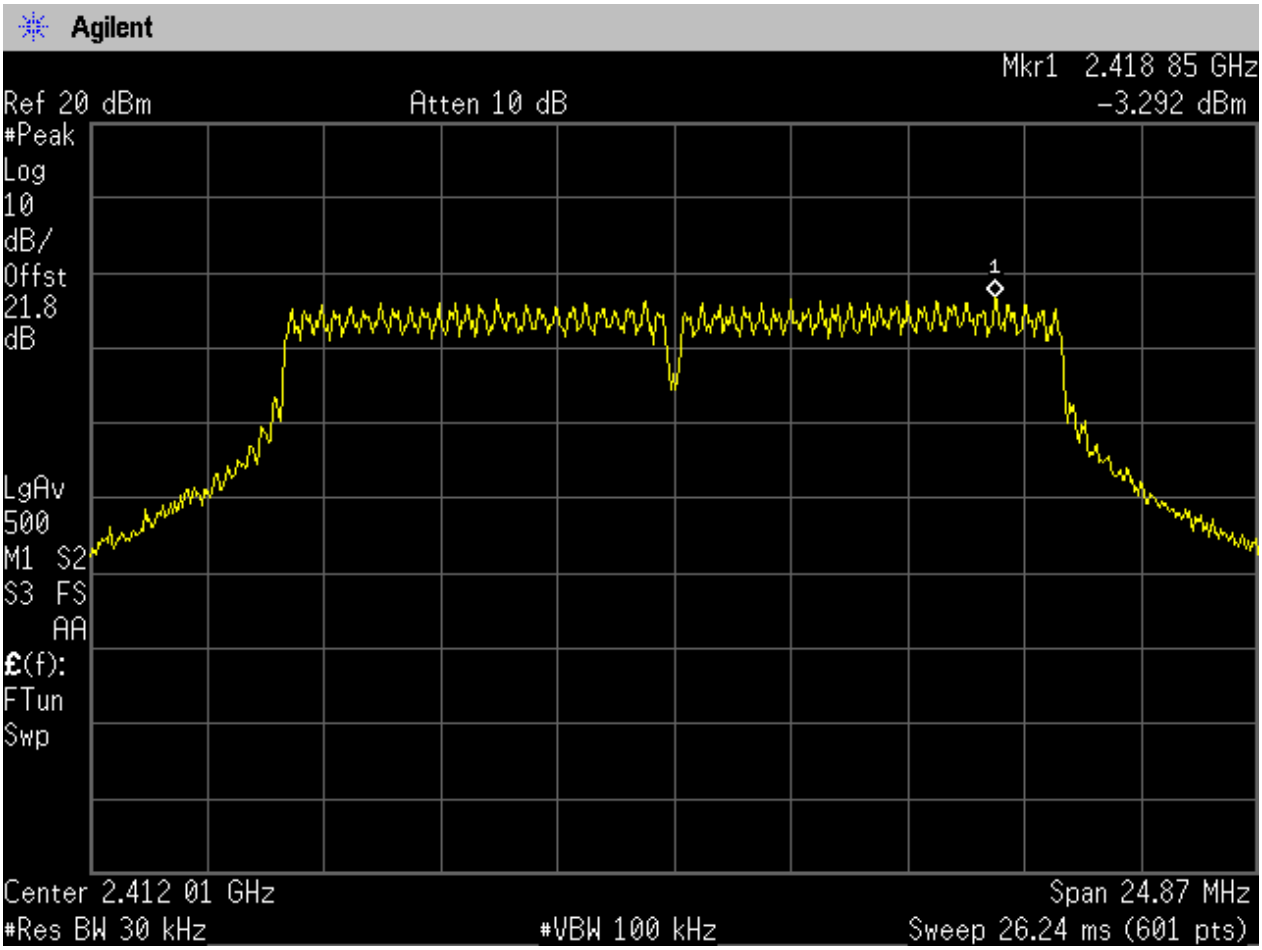


2.6.3 Trace#sum (if needed for final judgment)

(Not applicable)

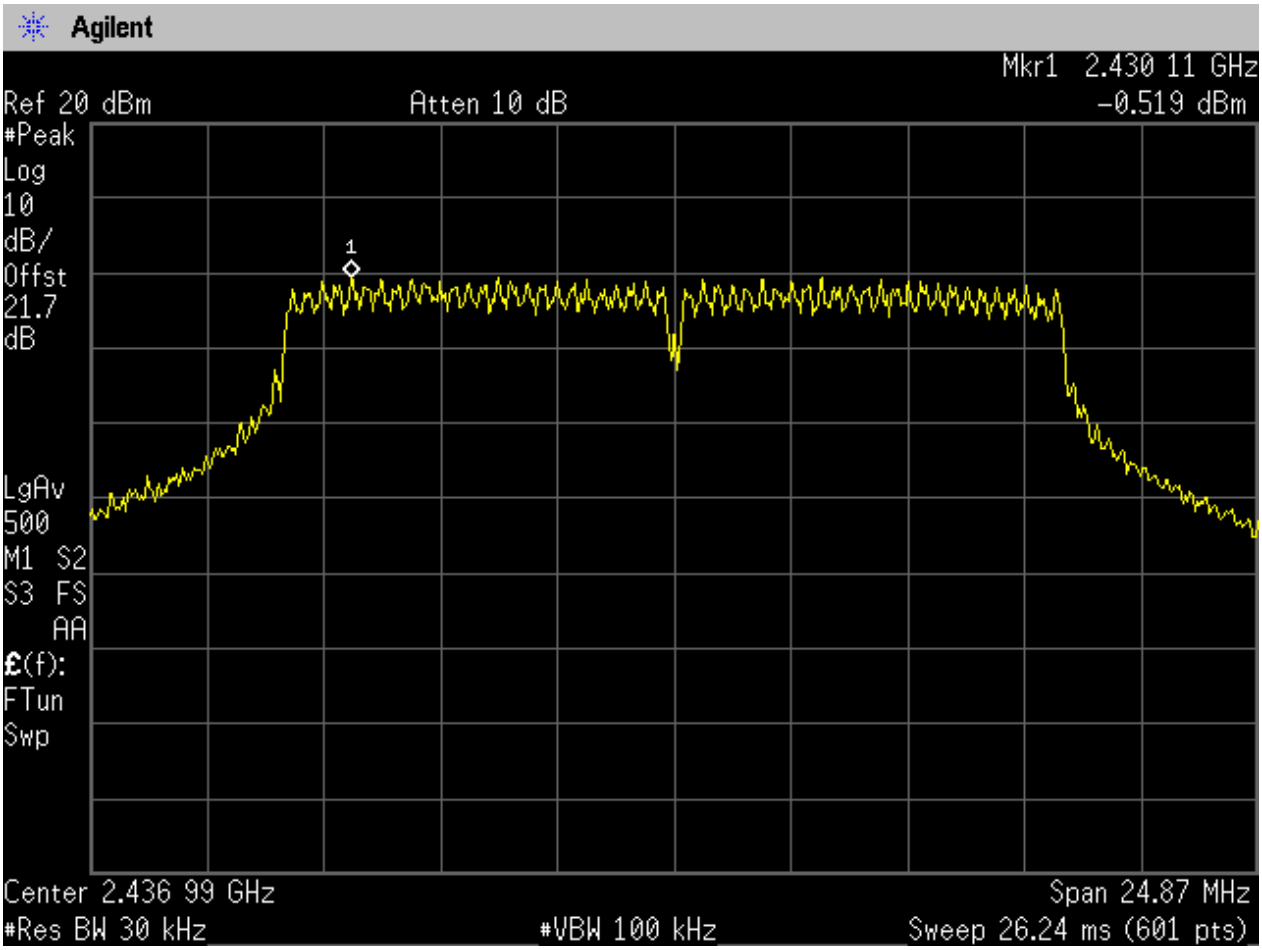
2.7 11G/6_B@1

Copyright © Huawei Technologies Co., Ltd.



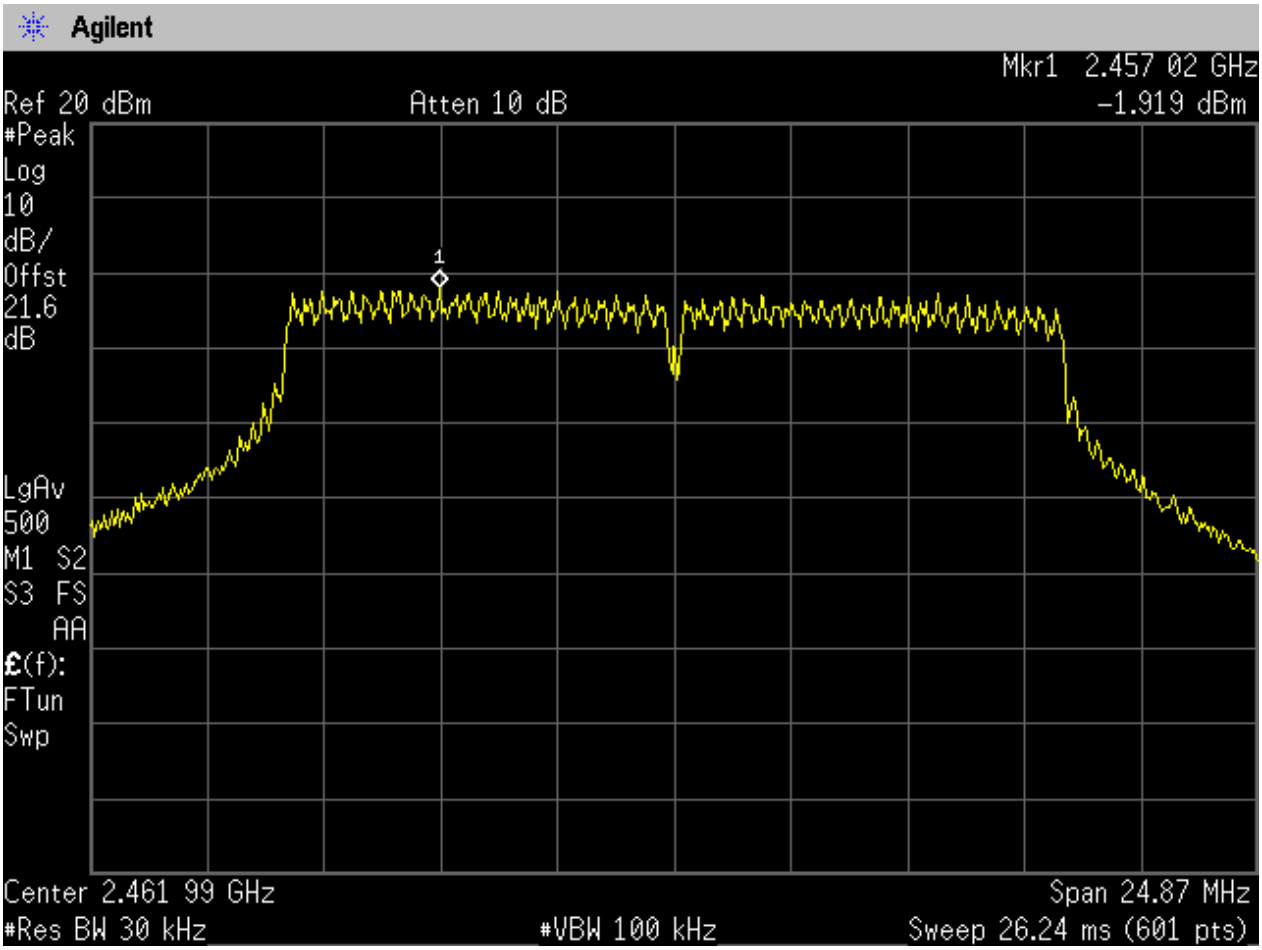
2.8 11G/6_M@1

Copyright © Huawei Technologies Co., Ltd.



2.9 11G/6_T@1

Copyright © Huawei Technologies Co., Ltd.



2.1011Gd/6_B@1+2

2.10.1 Ant 1 (Trace#1)

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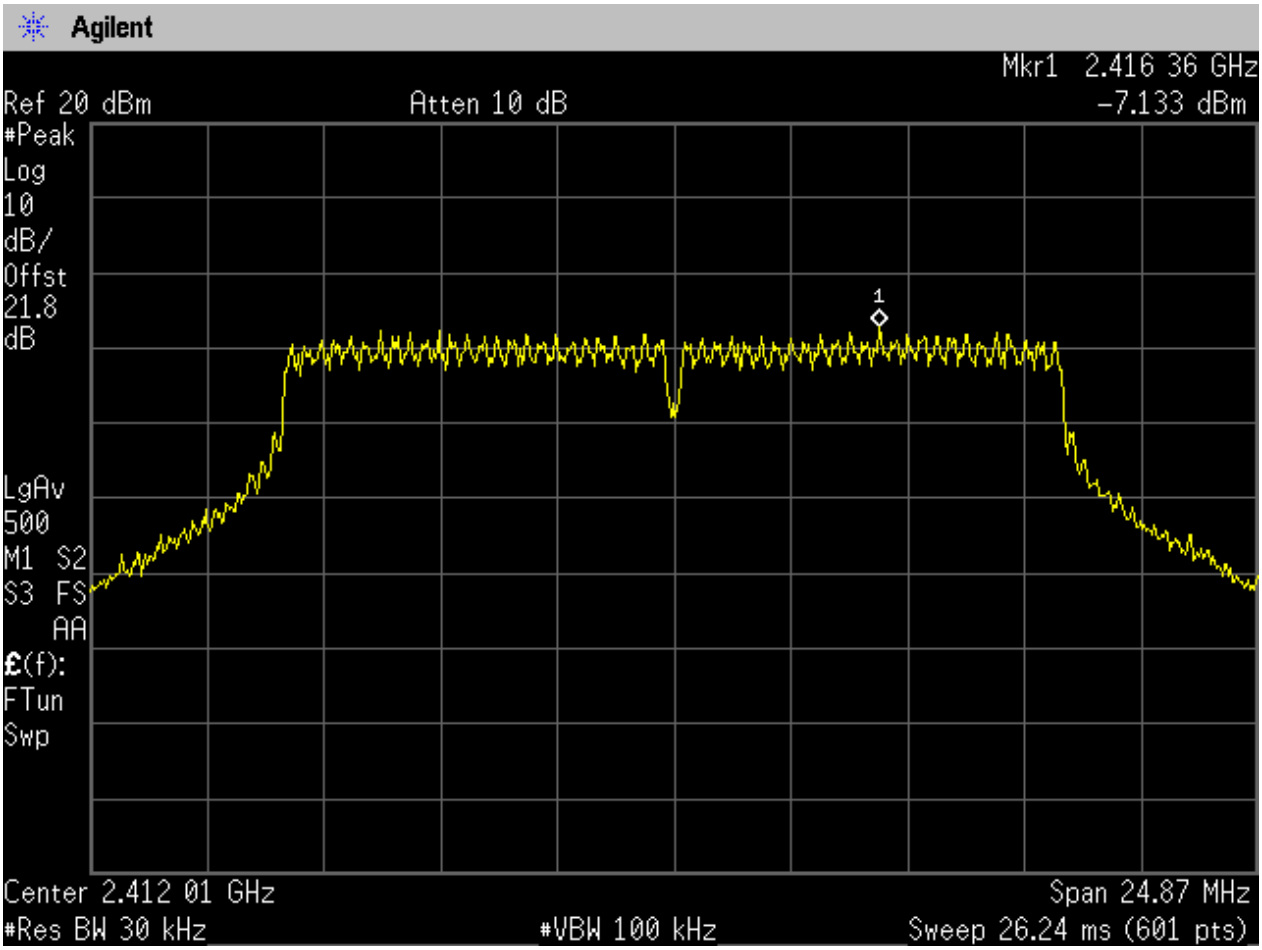

2.10.2 Ant 2 (Trace#2)

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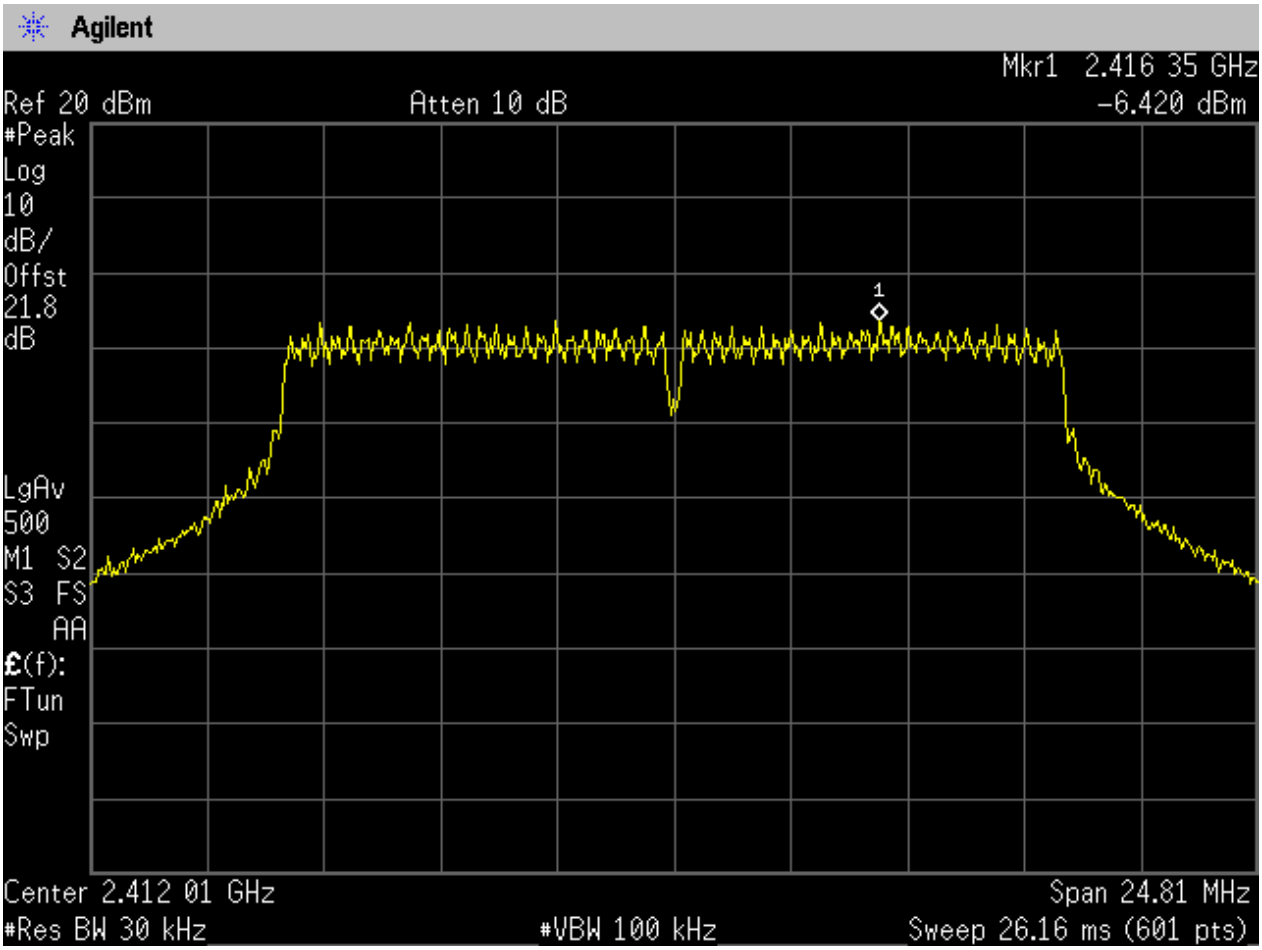


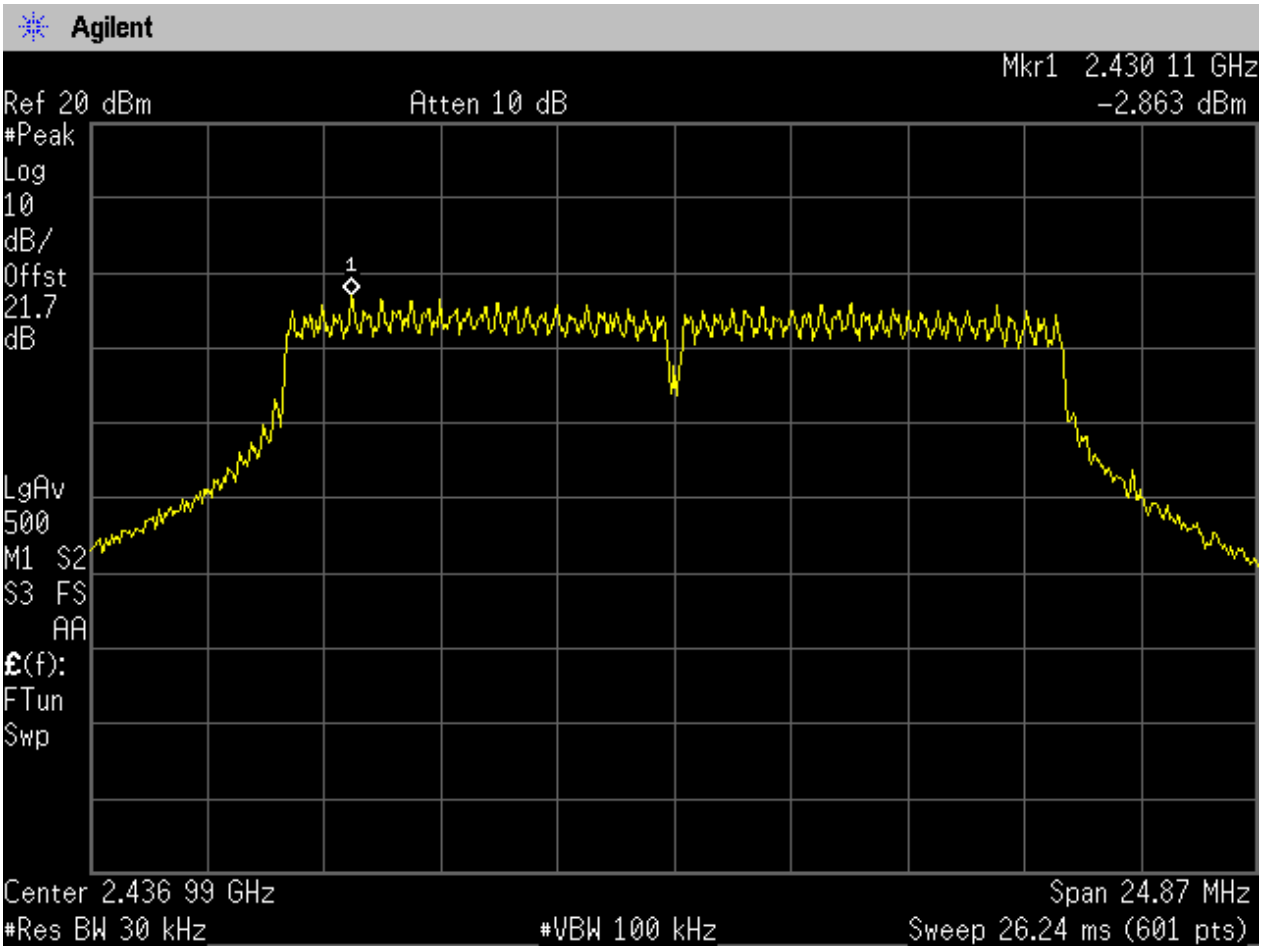
2.10.3 Trace#sum (if needed for final judgment)

(Not applicable)

2.1111Gd/6_M@1+2

2.11.1 Ant 1 (Trace#1)

Copyright © Huawei Technologies Co., Ltd.



2.11.2 Ant 2 (Trace#2)

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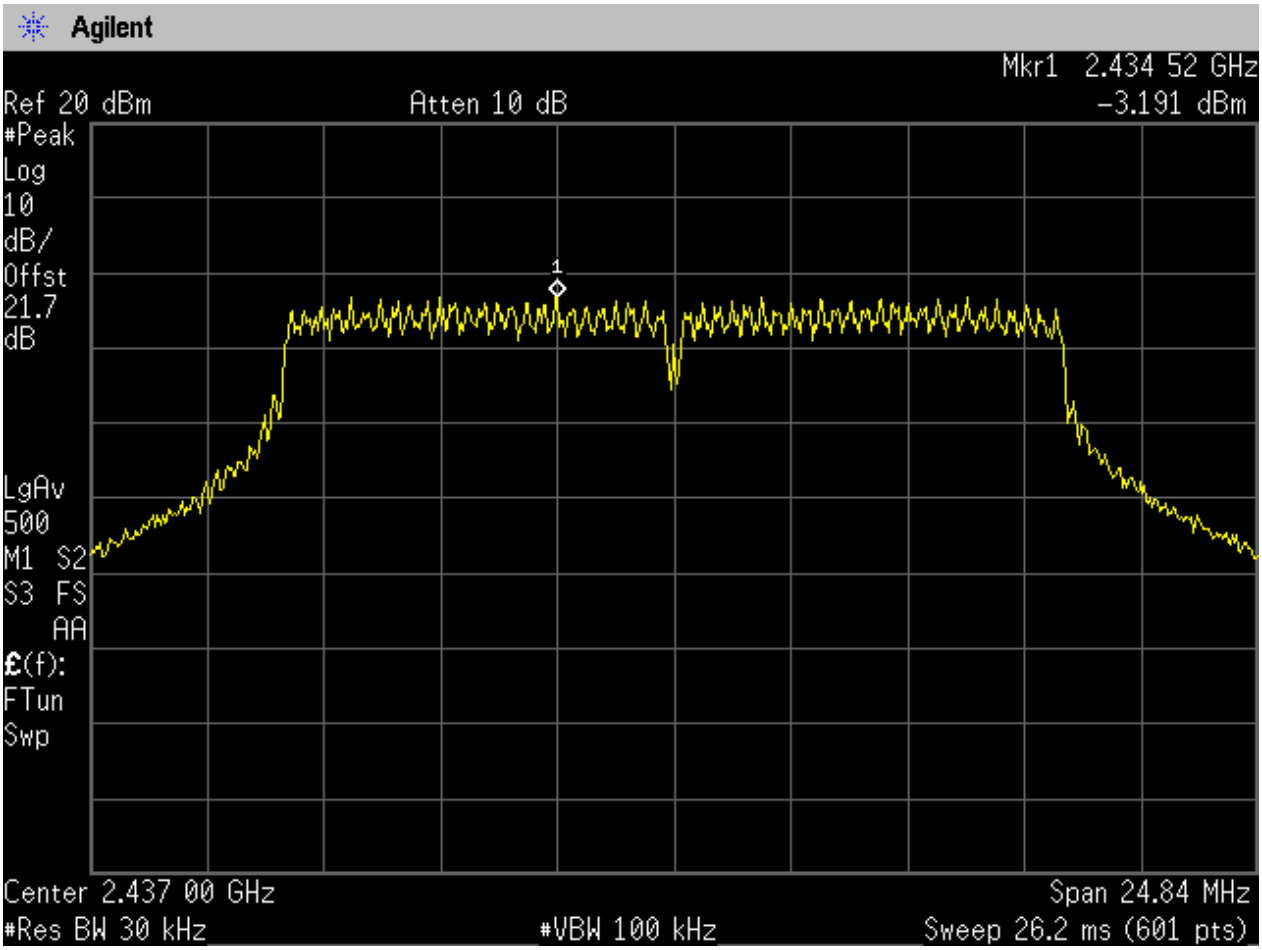


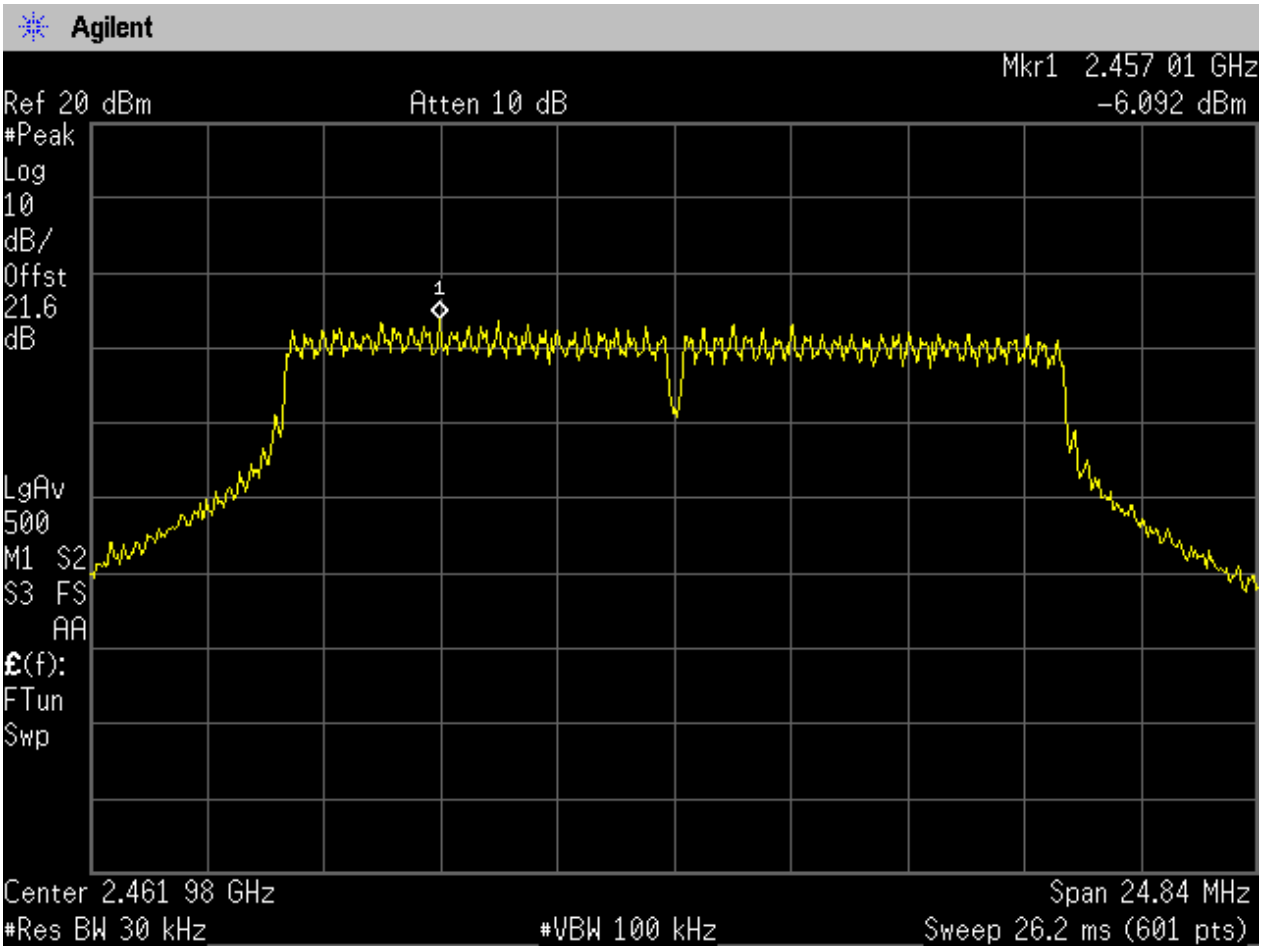
2.11.3 Trace#sum (if needed for final judgment)

(Not applicable)

2.1211Gd/6_T@1+2

2.12.1 Ant 1 (Trace#1)

Copyright © Huawei Technologies Co., Ltd.



2.12.2 Ant 2 (Trace#2)

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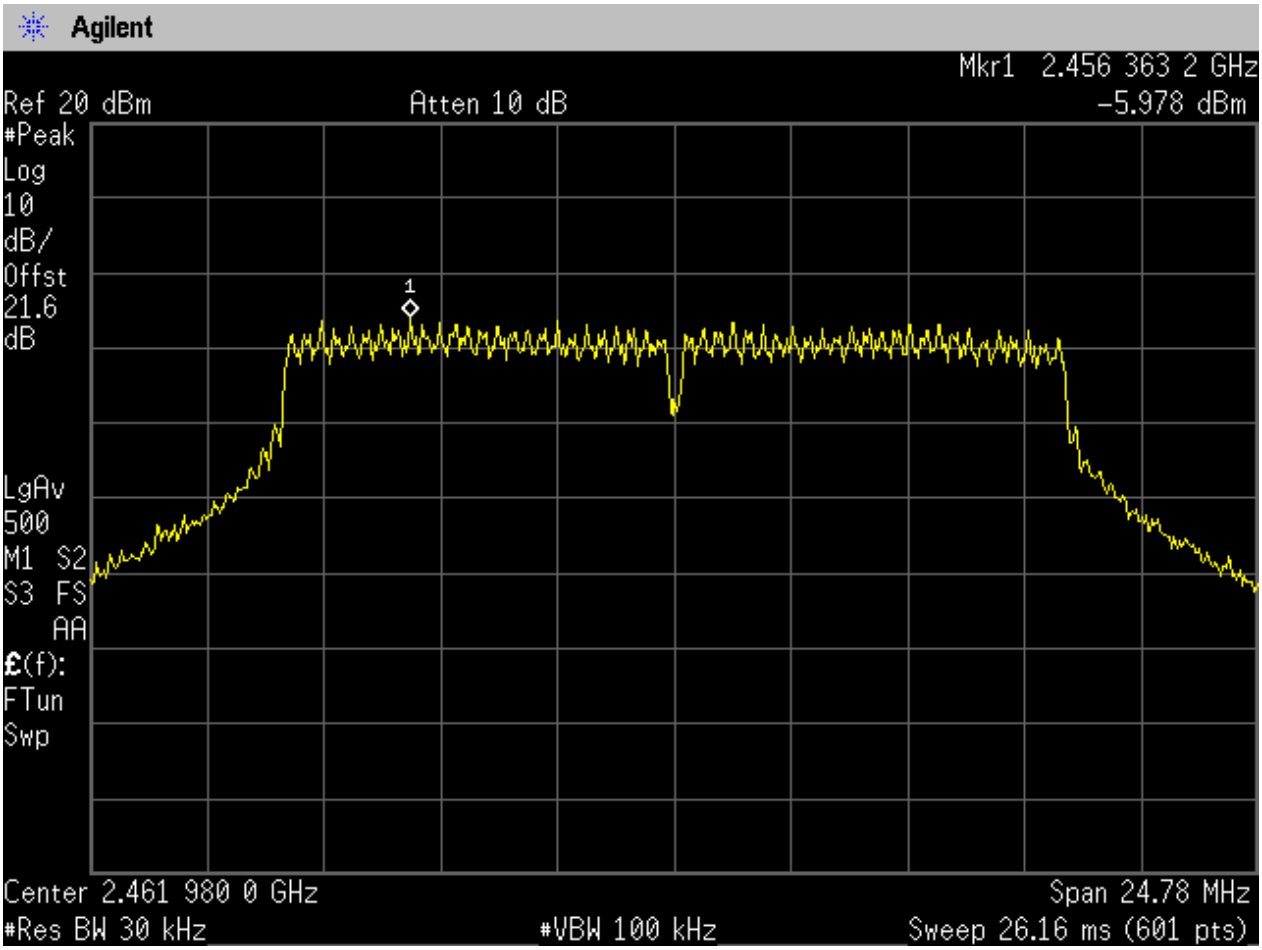

2.12.3 Trace#sum (if needed for final judgment)

(Not applicable)

2.1311N20/0_B@1

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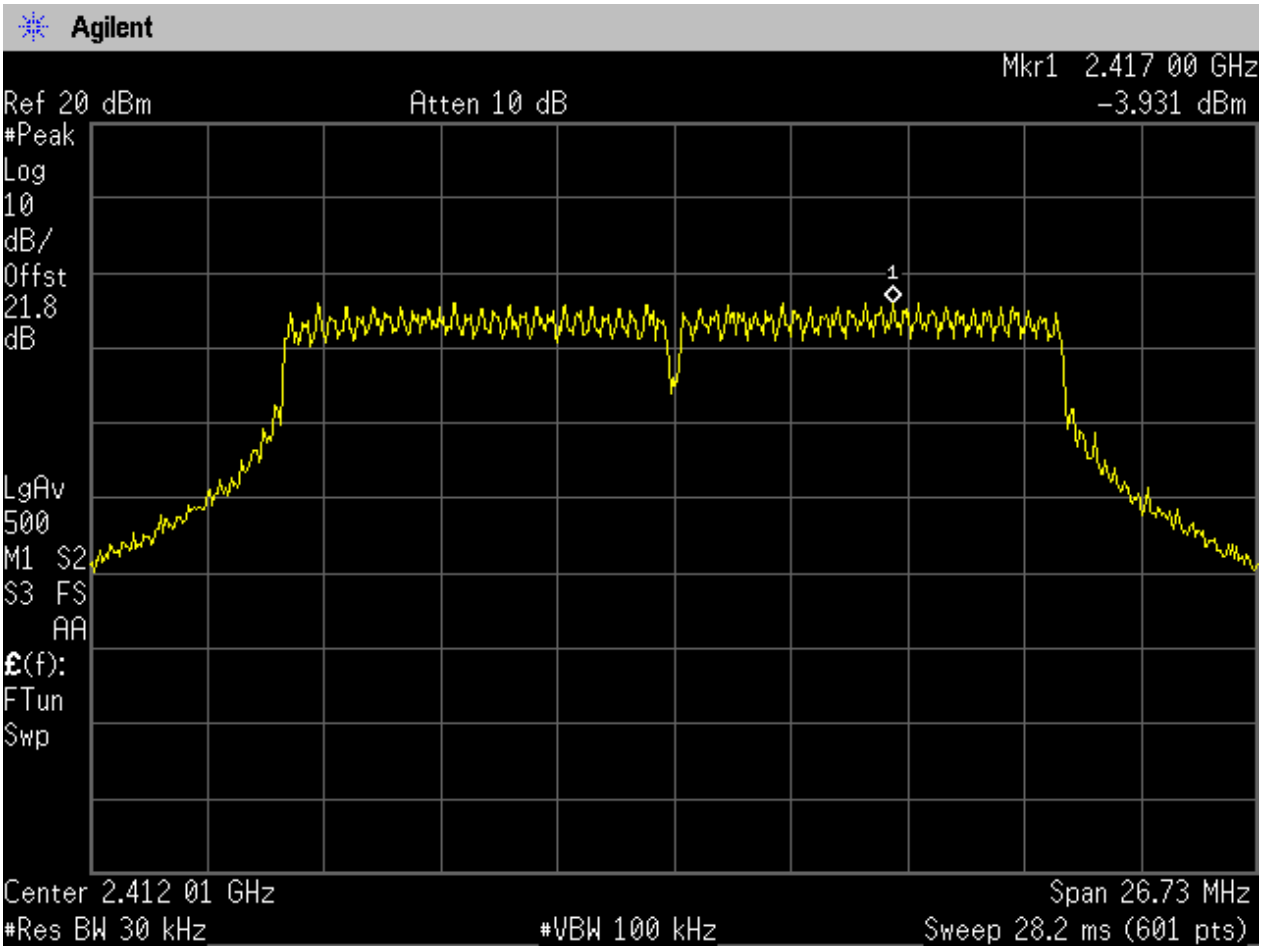

2.1411N20/0_M@1

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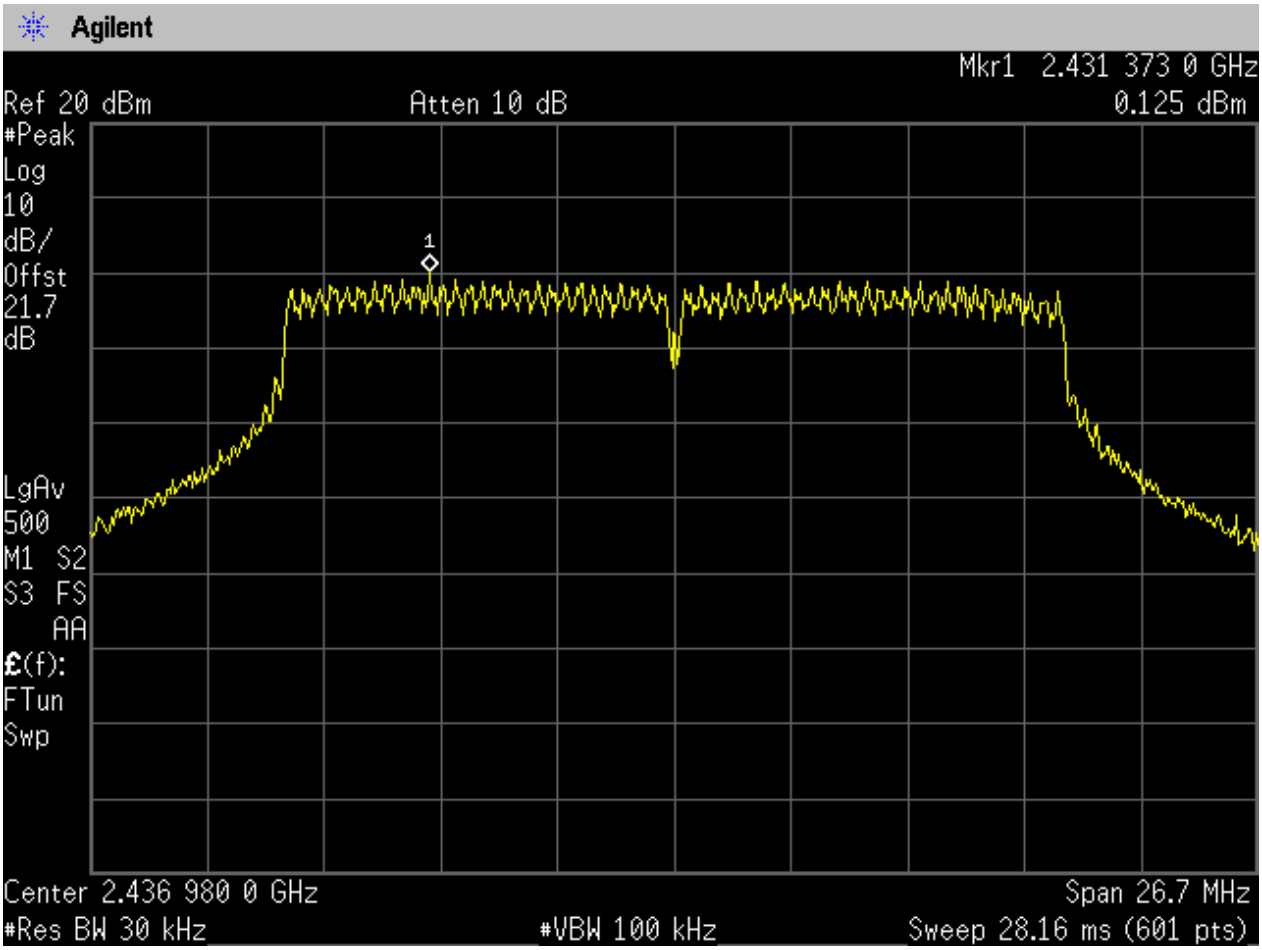

2.1511N20/0_T@1

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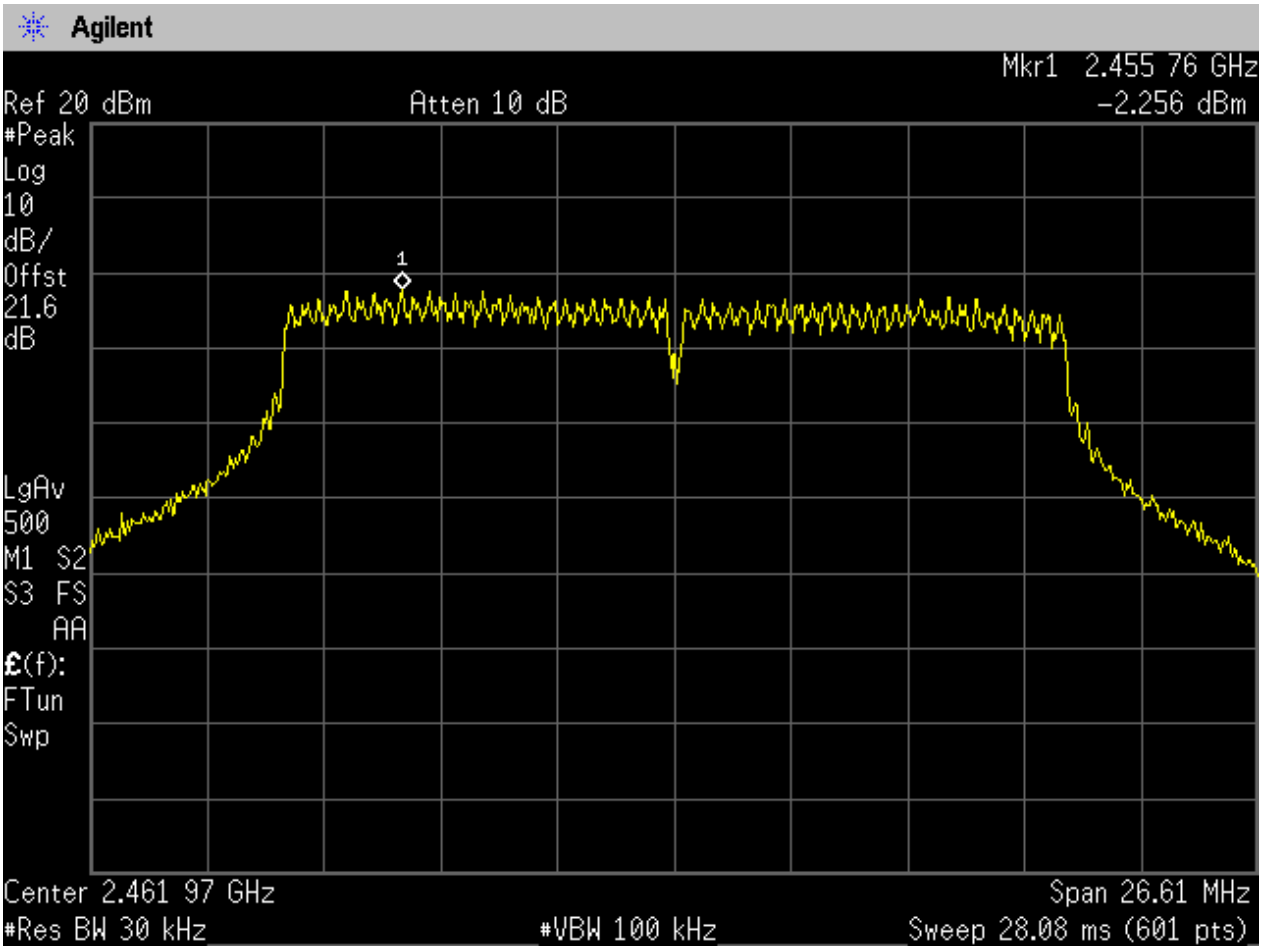

2.1611N20m/8_B@1+2

2.16.1 Ant 1 (Trace#1)

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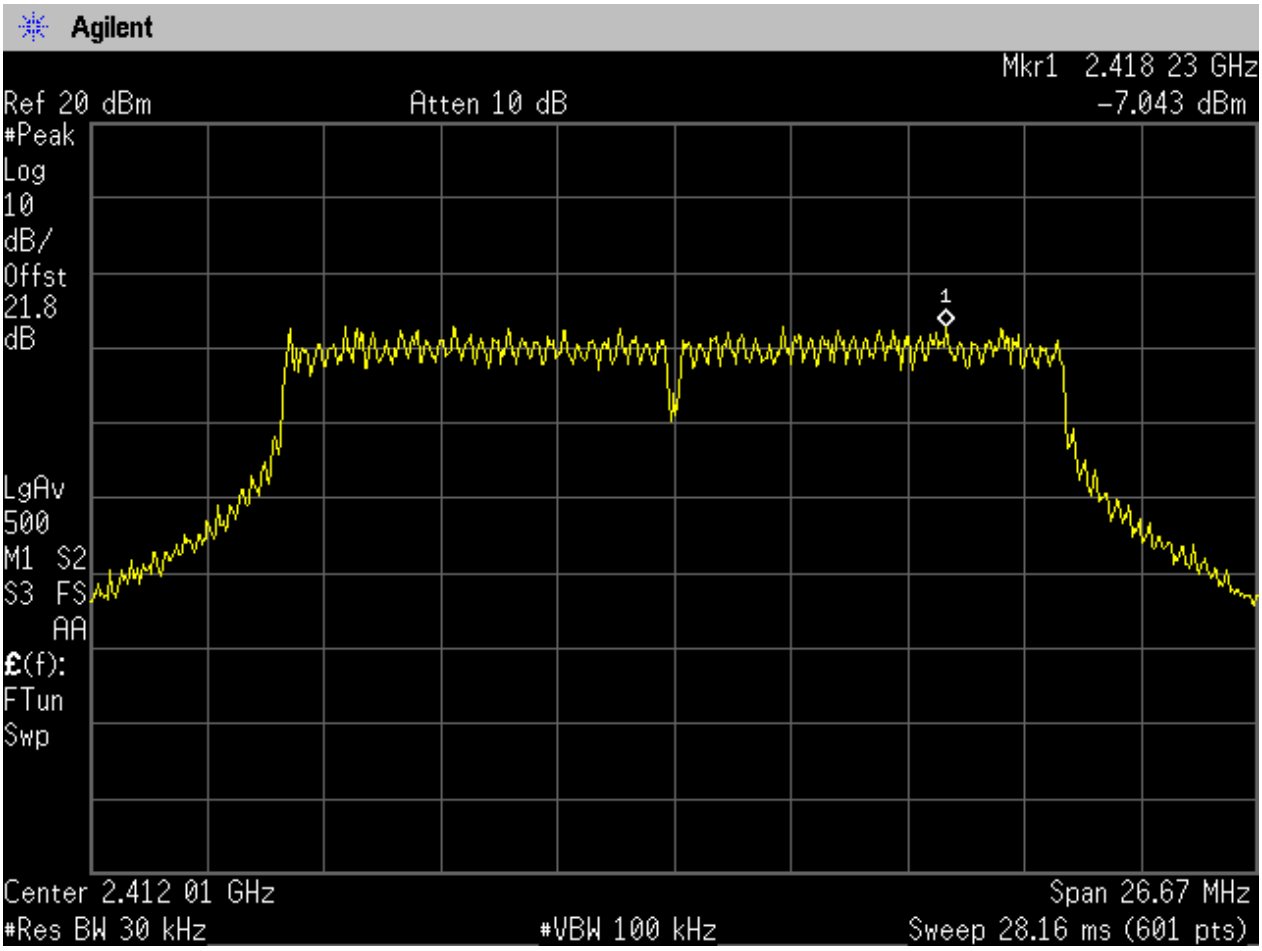

2.16.2 Ant 2 (Trace#2)

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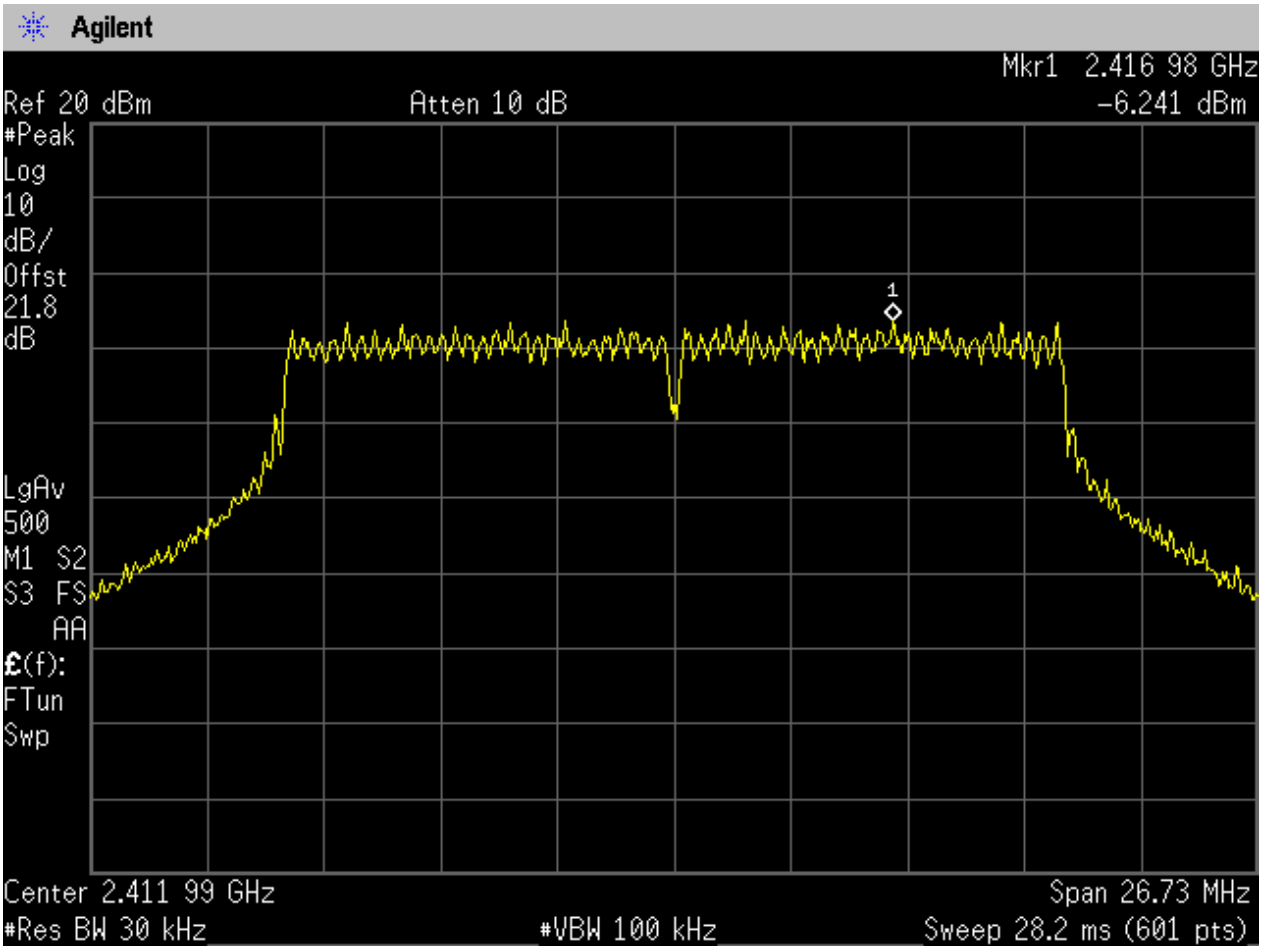


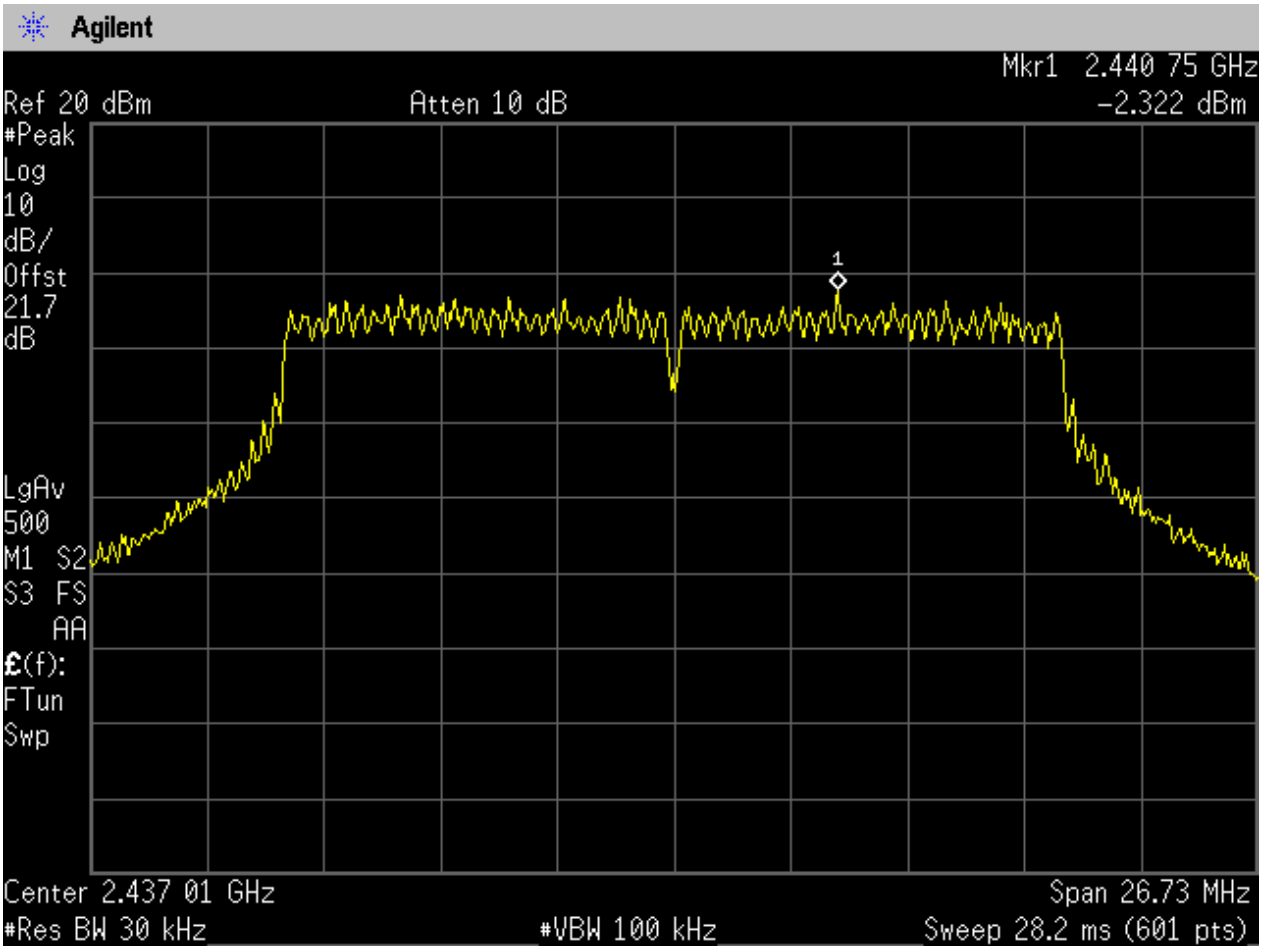
2.16.3 Trace#sum (if needed for final judgment)

(Not applicable)

2.1711N20m/8_M@1+2

2.17.1 Ant 1 (Trace#1)

Copyright © Huawei Technologies Co., Ltd.



2.17.2 Ant 2 (Trace#2)

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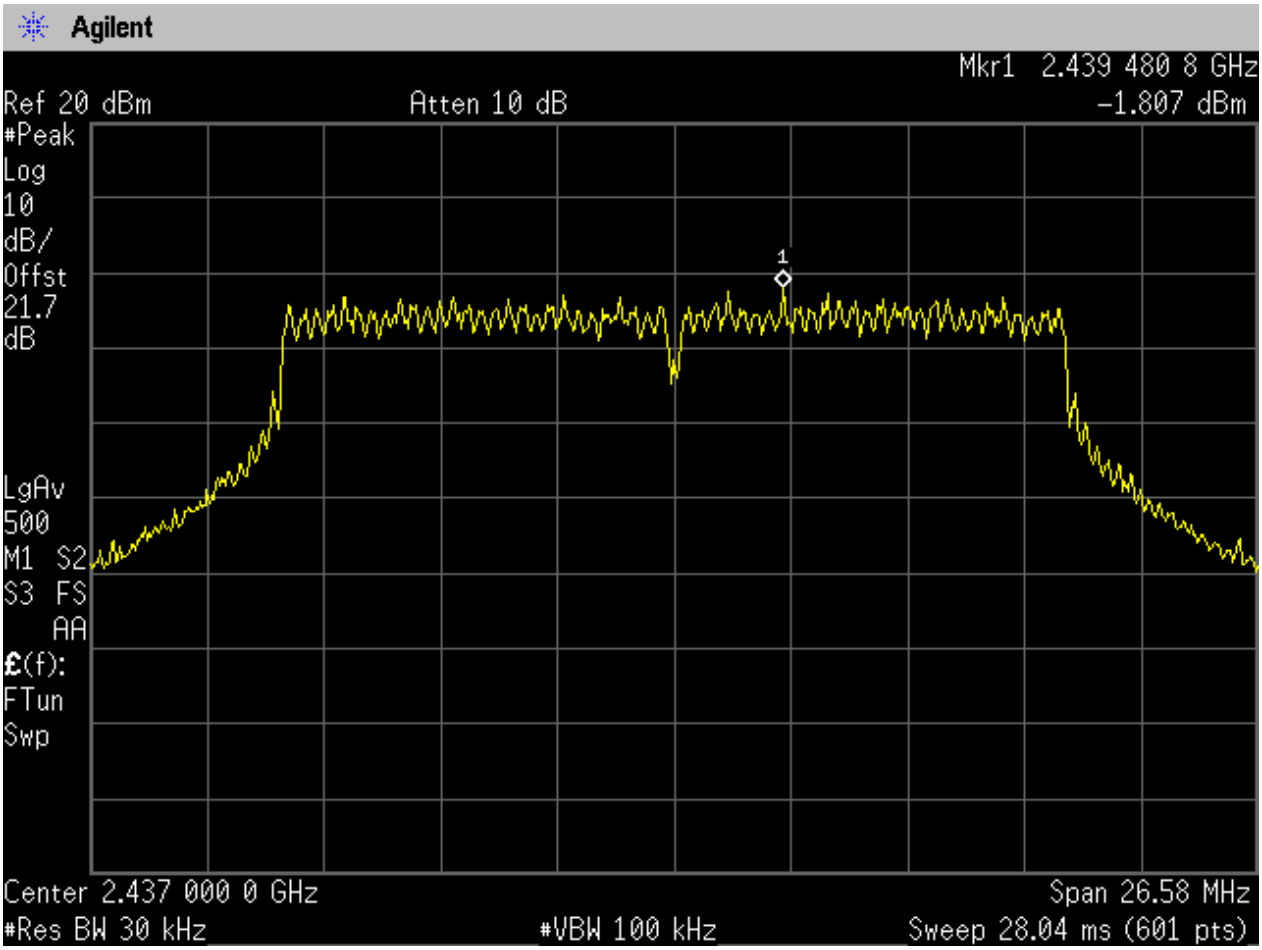

2.17.3 Trace#sum (if needed for final judgment)

(Not applicable)

2.1811N20m/8_T@1+2

2.18.1 Ant 1 (Trace#1)

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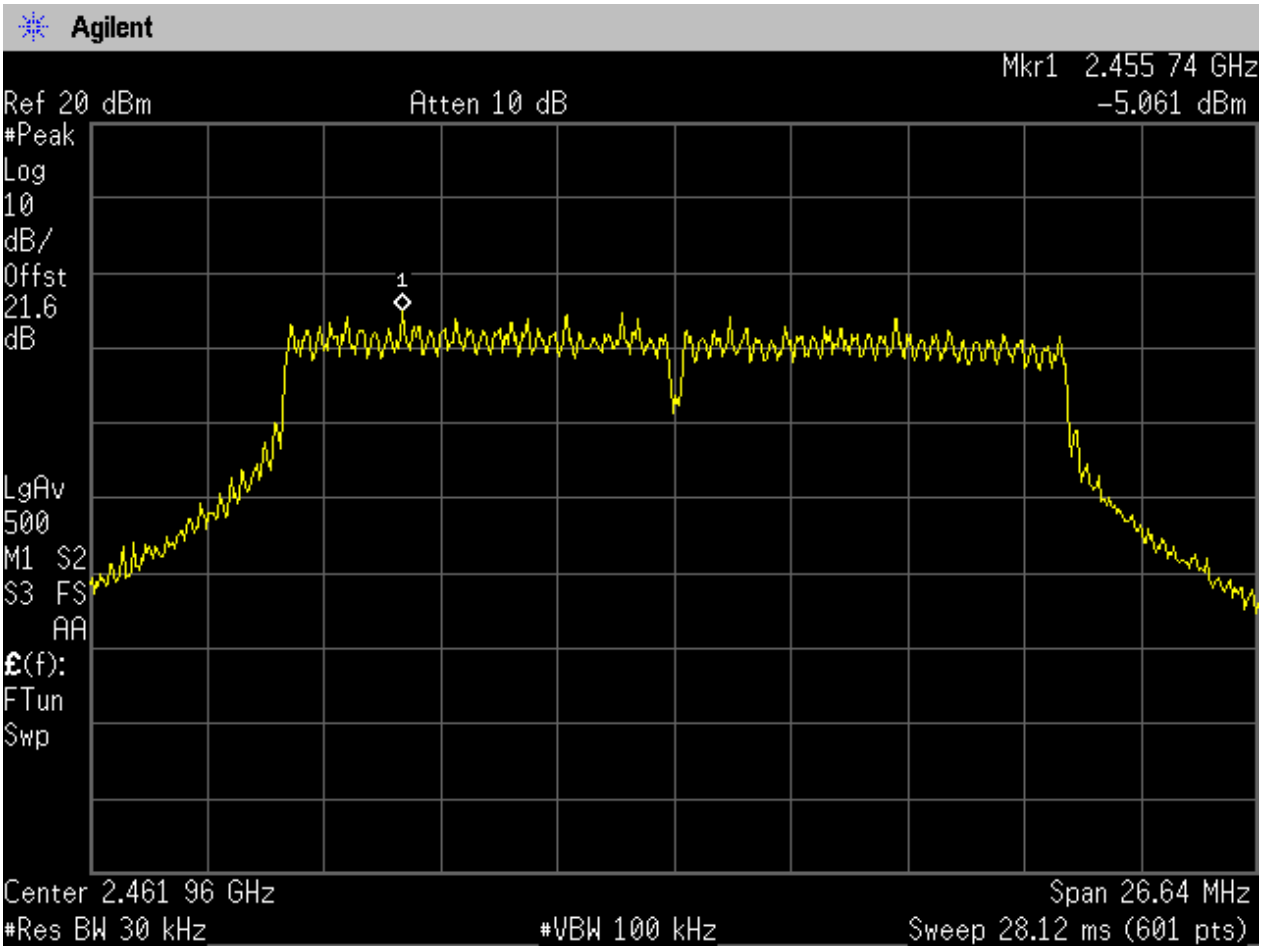

2.18.2 Ant 2 (Trace#2)

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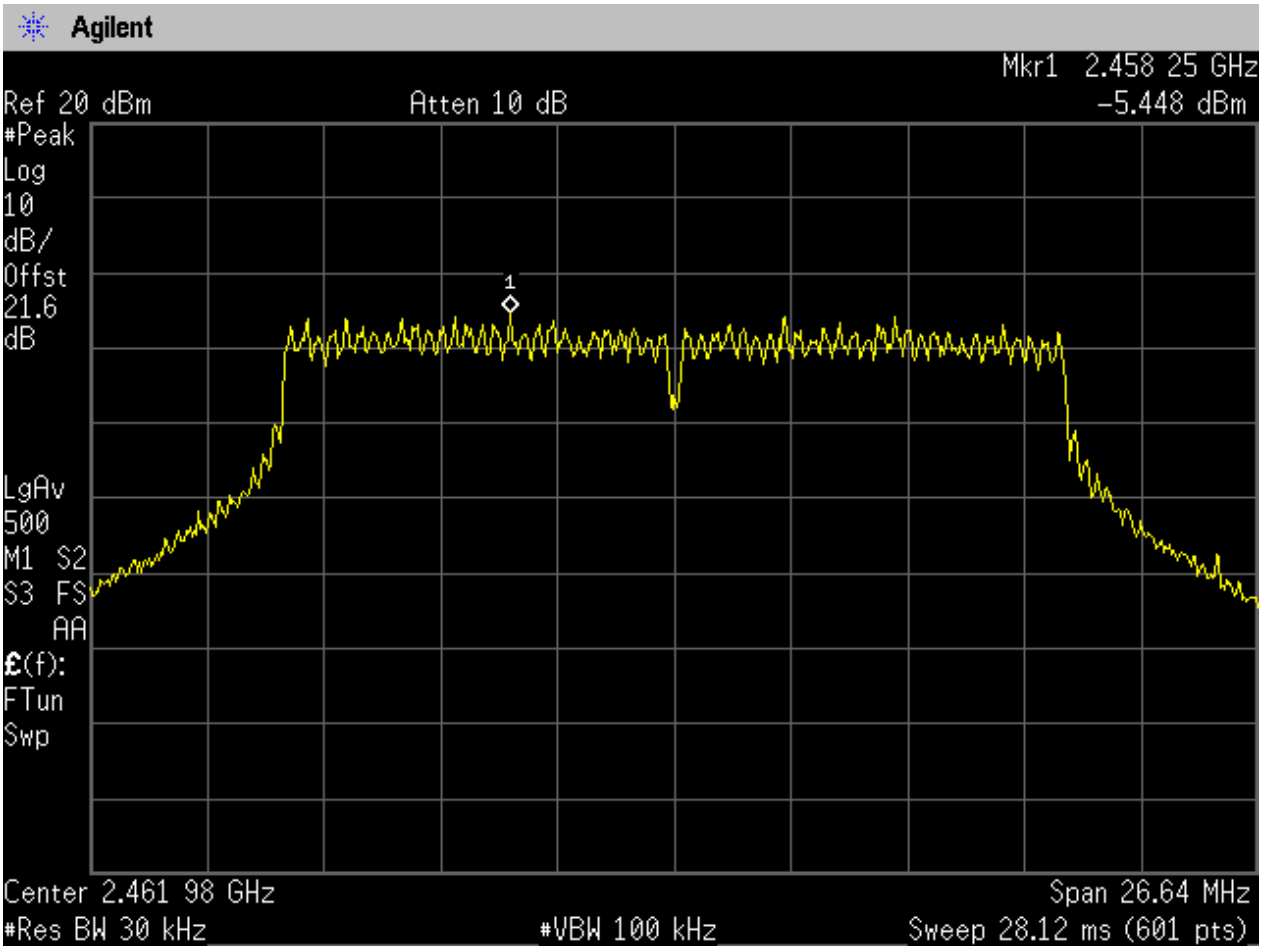

2.18.3 Trace#sum (if needed for final judgment)

(Not applicable)

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Appendix E: Unwanted Emissions into Non-Restricted Frequency Bands

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In this Appendix, the “Pref”, which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the “Puw” referrers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] = 10 x lg(100 [kHz]/narrower RBW [kHz]). As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the “< Limit” denotes that “The Puw [dBm] is less than Pref [dBm] – 20 [dB], see test plots for detailed”.

1 Result Table

EUT Conf.	Ant.	Pref [dBm]	Puw [dBm]	Verdict
11B/1_B@1	Ant 1	2.56	< Limit	Pass
11B/1_M@1	Ant 1	2.79	< Limit	Pass
11B/1_T@1	Ant 1	2.8	< Limit	Pass
11Bd/1_B@1+2	Ant 1	-3.58	< Limit	Pass
	Ant 2	2.48	< Limit	Pass
11Bd/1_M@1+2	Ant 1	-3.19	< Limit	Pass
	Ant 2	3.13	< Limit	Pass
11Bd/1_T@1+2	Ant 1	-3.48	< Limit	Pass
	Ant 2	2.99	< Limit	Pass
11G/6_B@1	Ant 1	-5.16	< Limit	Pass
11G/6_M@1	Ant 1	2.63	< Limit	Pass
11G/6_T@1	Ant 1	-4.42	< Limit	Pass
11Gd/6_B@1+2	Ant 1	-8.75	< Limit	Pass
	Ant 2	-2.59	< Limit	Pass
11Gd/6_M@1+2	Ant 1	-5.35	< Limit	Pass
	Ant 2	0.73	< Limit	Pass
11Gd/6_T@1+2	Ant 1	-9.3	< Limit	Pass
	Ant 2	-2.3	< Limit	Pass
11N20/0_B@1	Ant 1	-4.79	< Limit	Pass
11N20/0_M@1	Ant 1	2.1	< Limit	Pass
11N20/0_T@1	Ant 1	-4.2	< Limit	Pass
11N20m/8_B@1+2	Ant 1	-8.14	< Limit	Pass

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EUT Conf.	Ant.	Pref [dBm]	Puw [dBm]	Verdict
	Ant 2	-1.6	< Limit	Pass
11N20m/8_M@1+2	Ant 1	-4.39	< Limit	Pass
	Ant 2	0.48	< Limit	Pass
11N20m/8_T@1+2	Ant 1	-7.4	< Limit	Pass
	Ant 2	-1.54	< Limit	Pass

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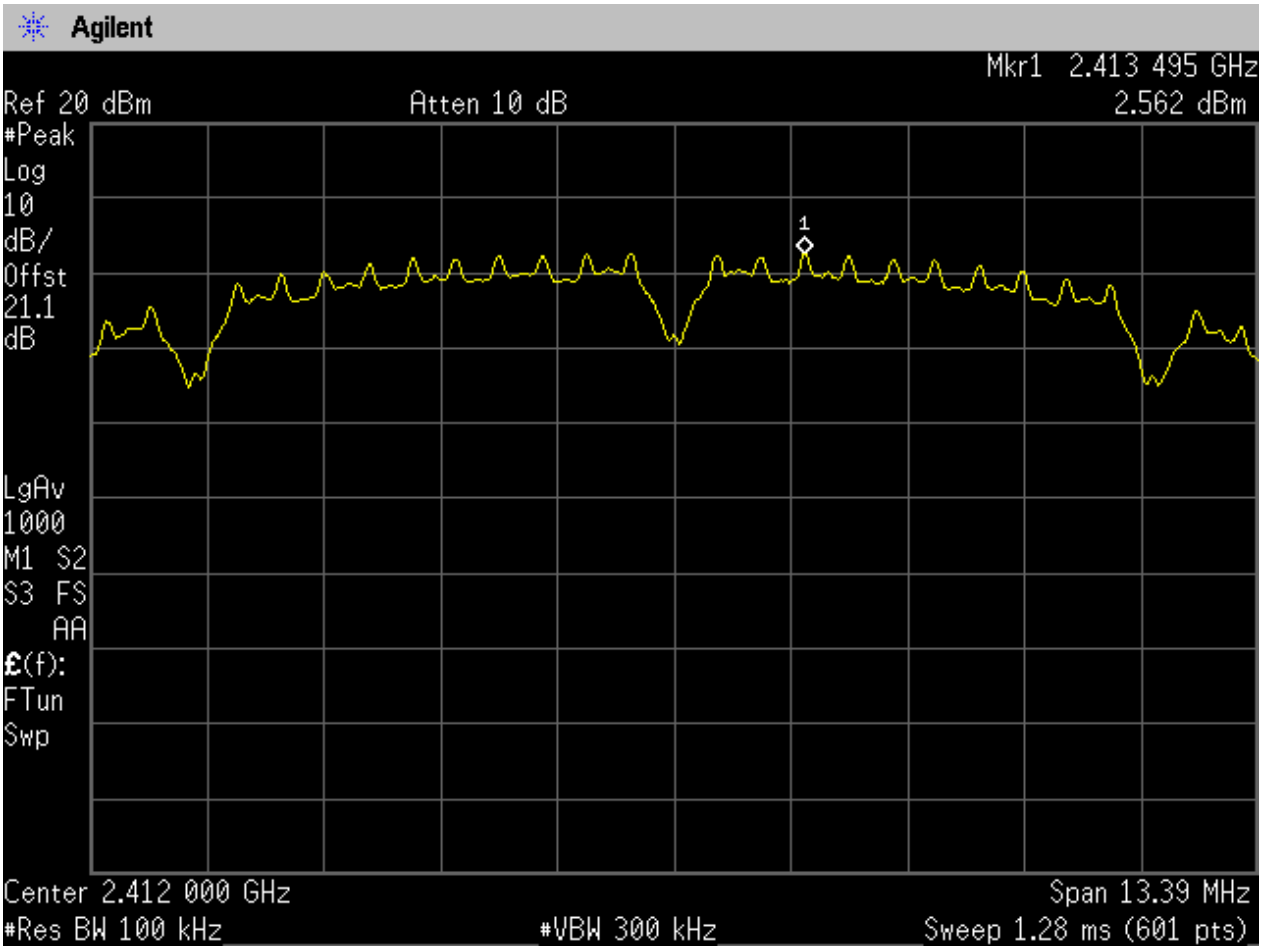
2 Test Plot

2.1 11B/1_B@1

2.1.1 Pref



2.1.2 Puw

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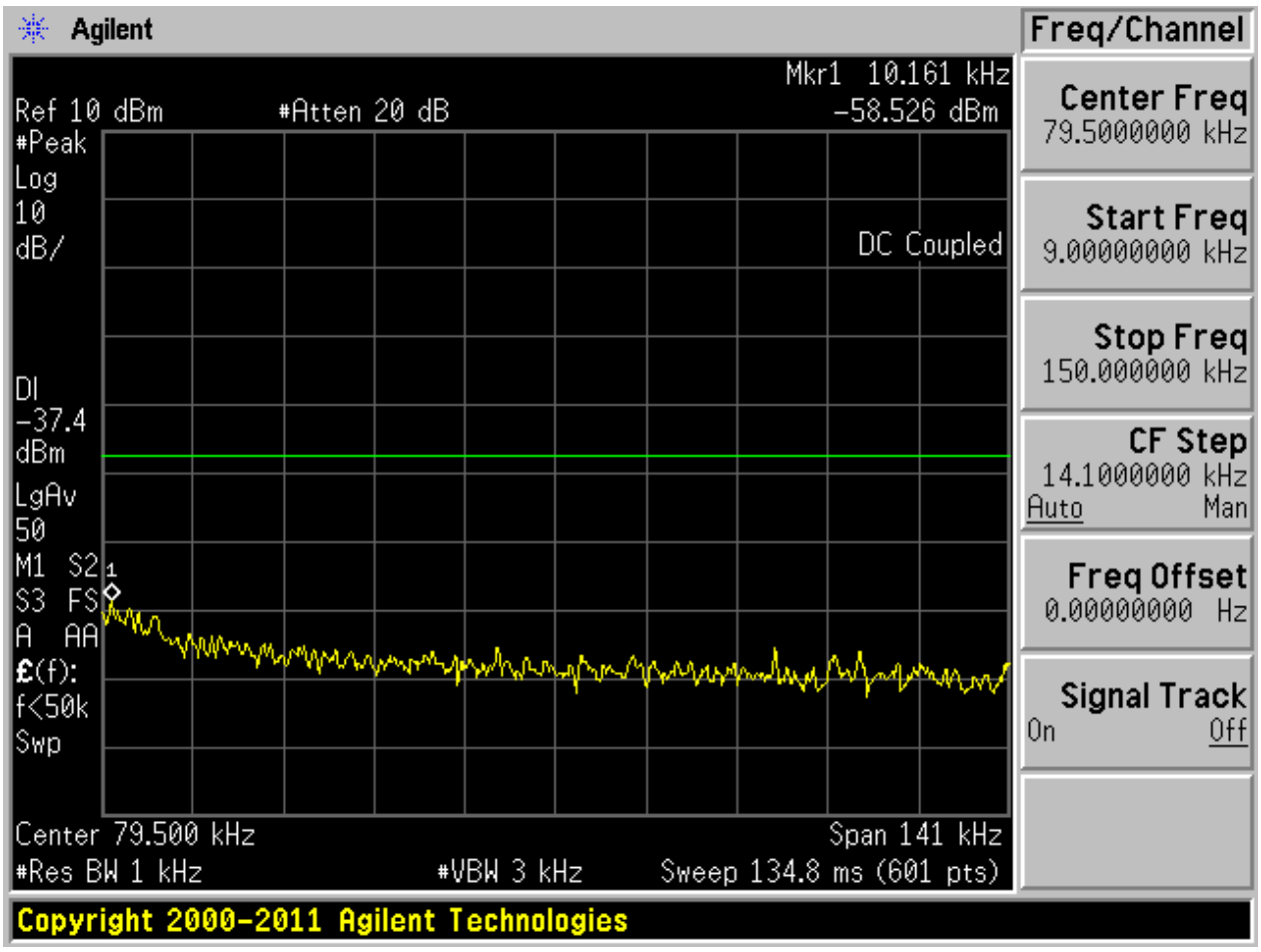

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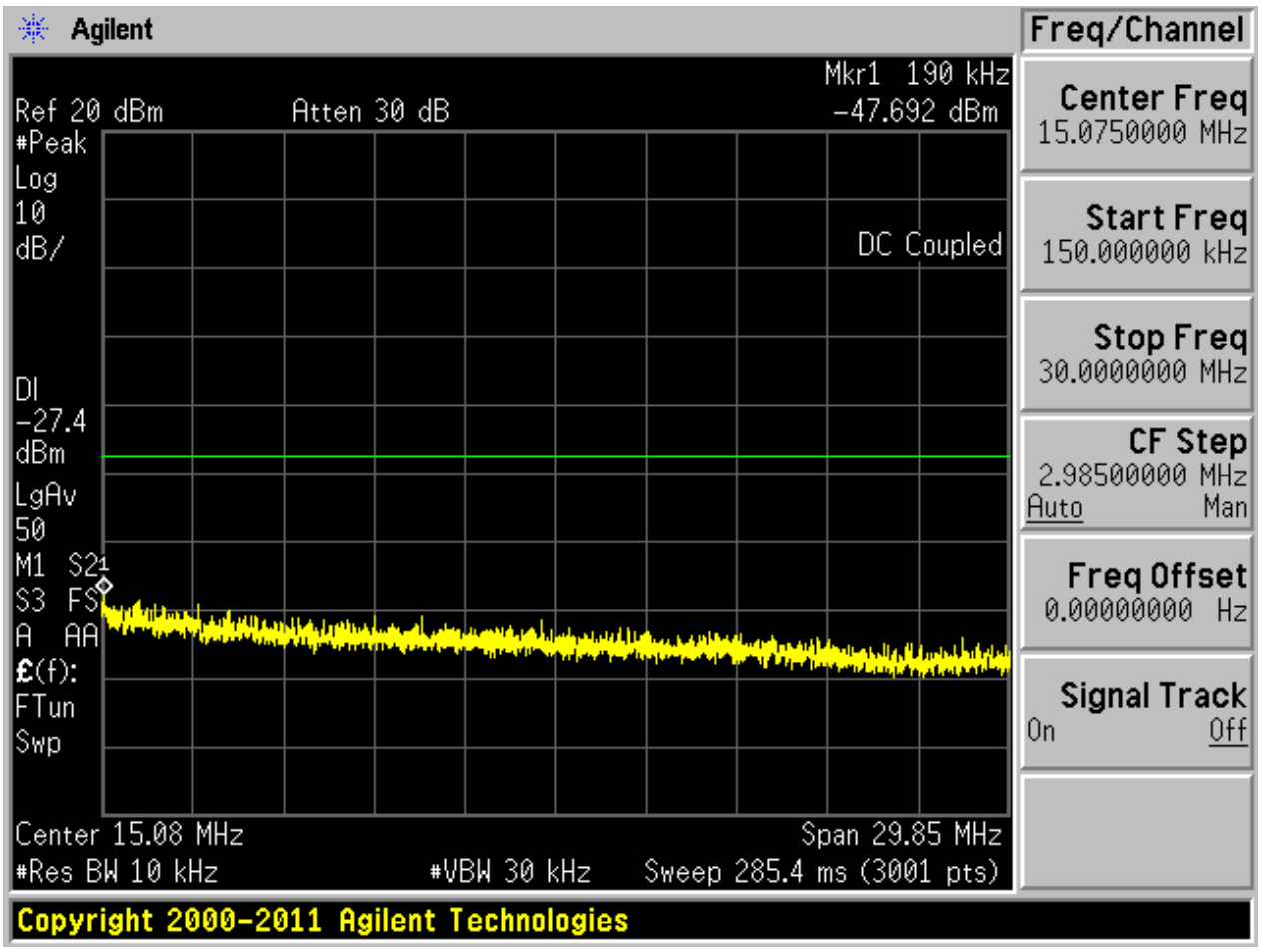

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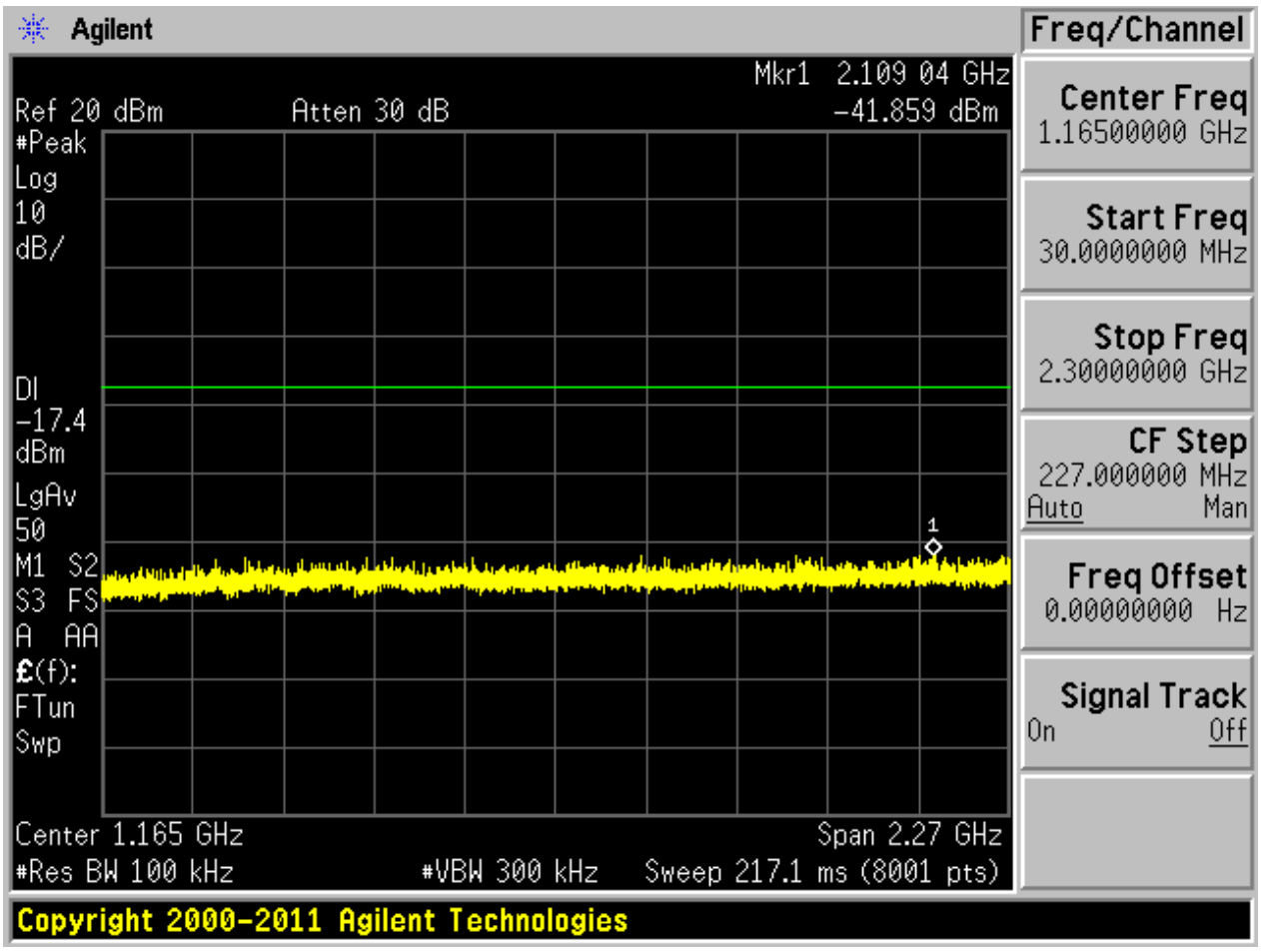

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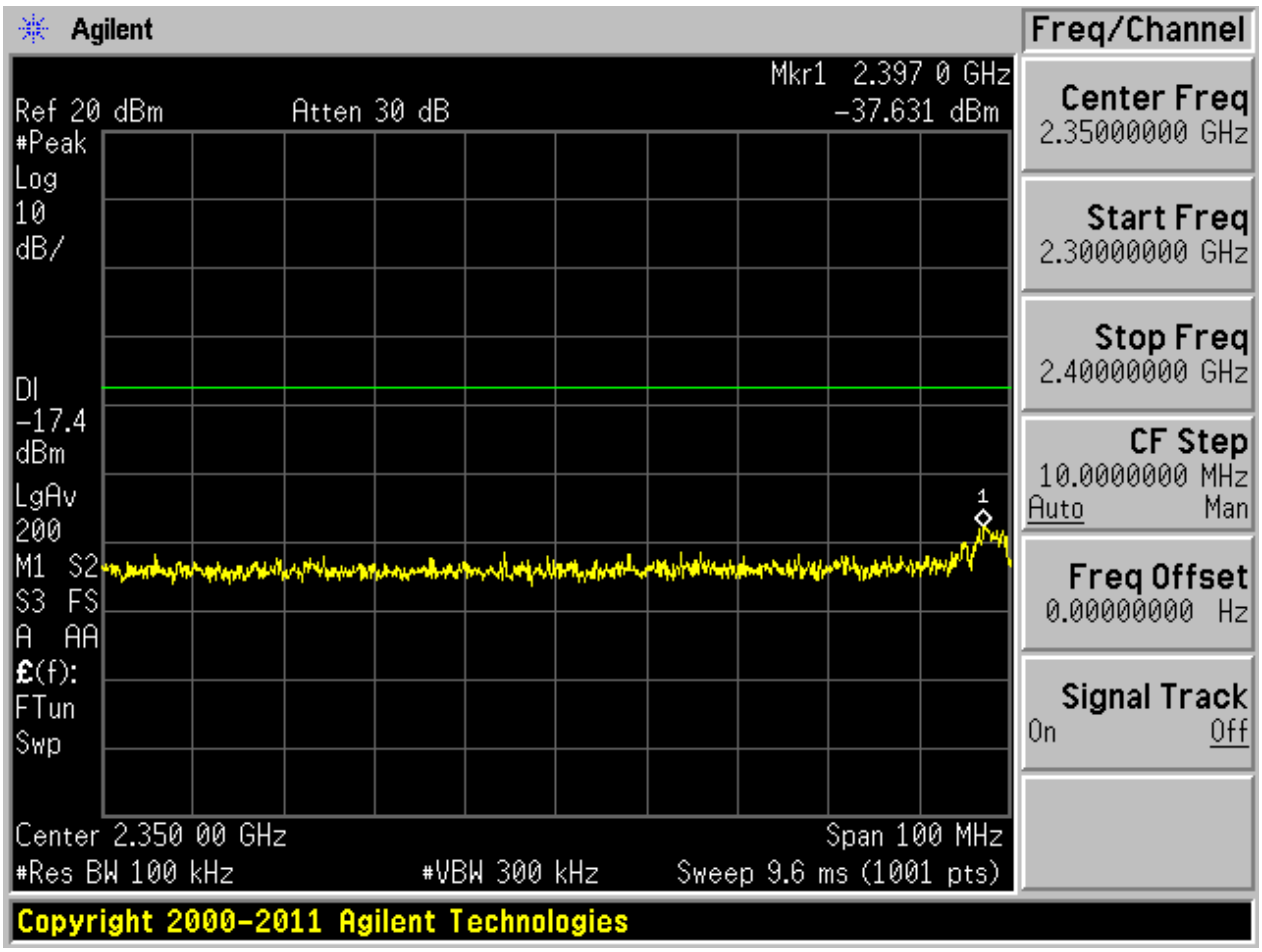

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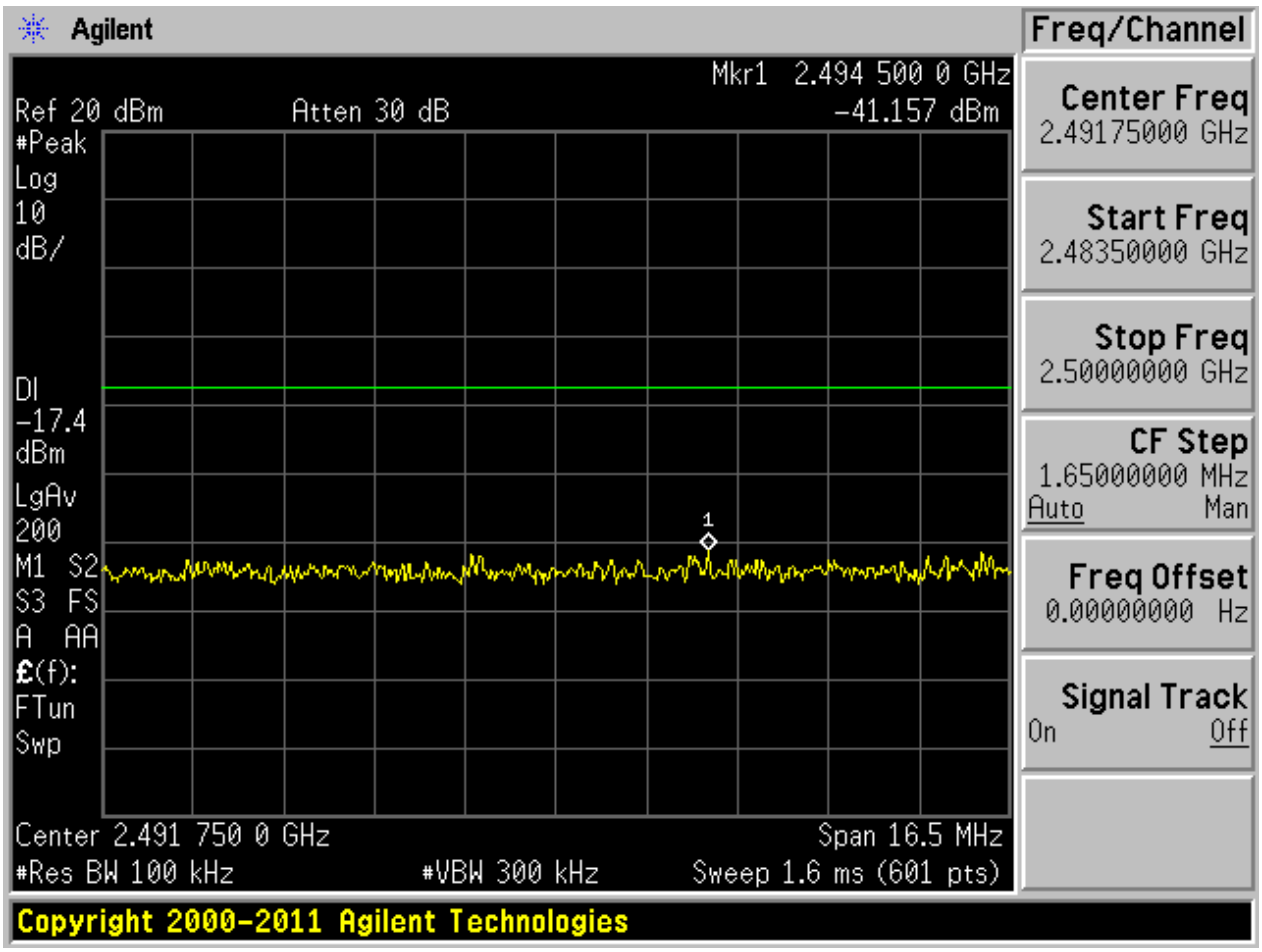

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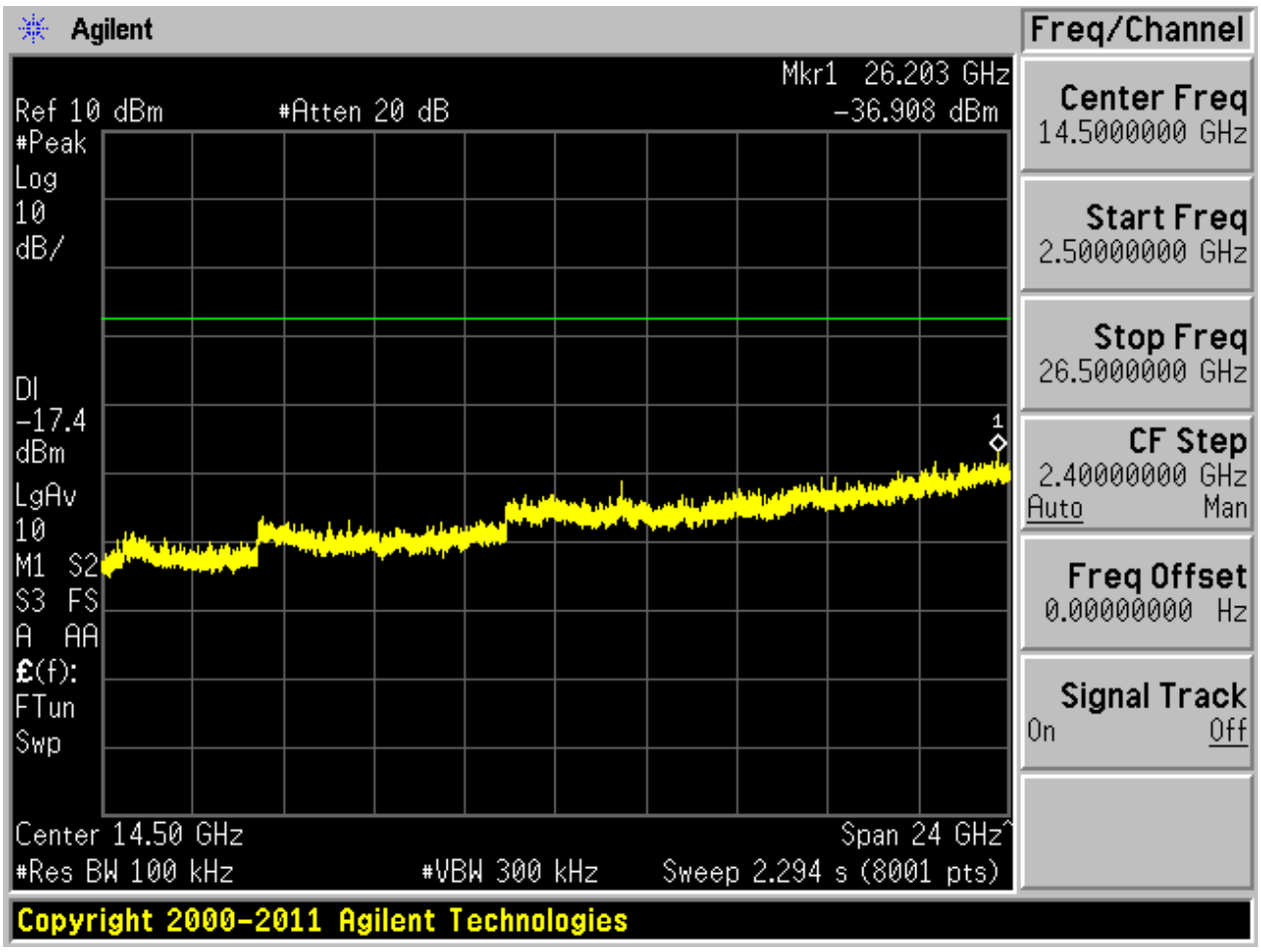

2.2 11B/1_M@1

2.2.1 Pref

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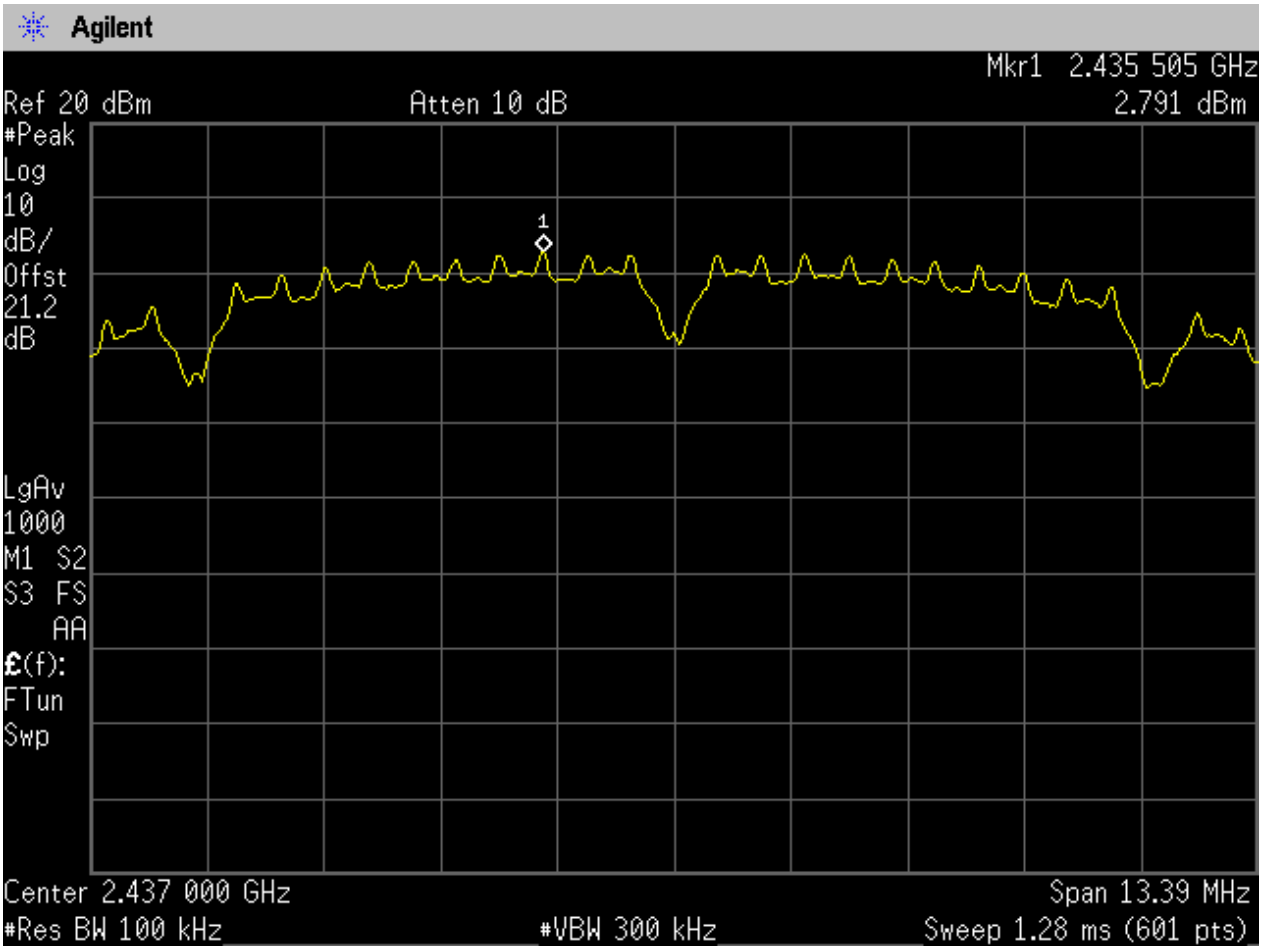

2.2.2 Puw

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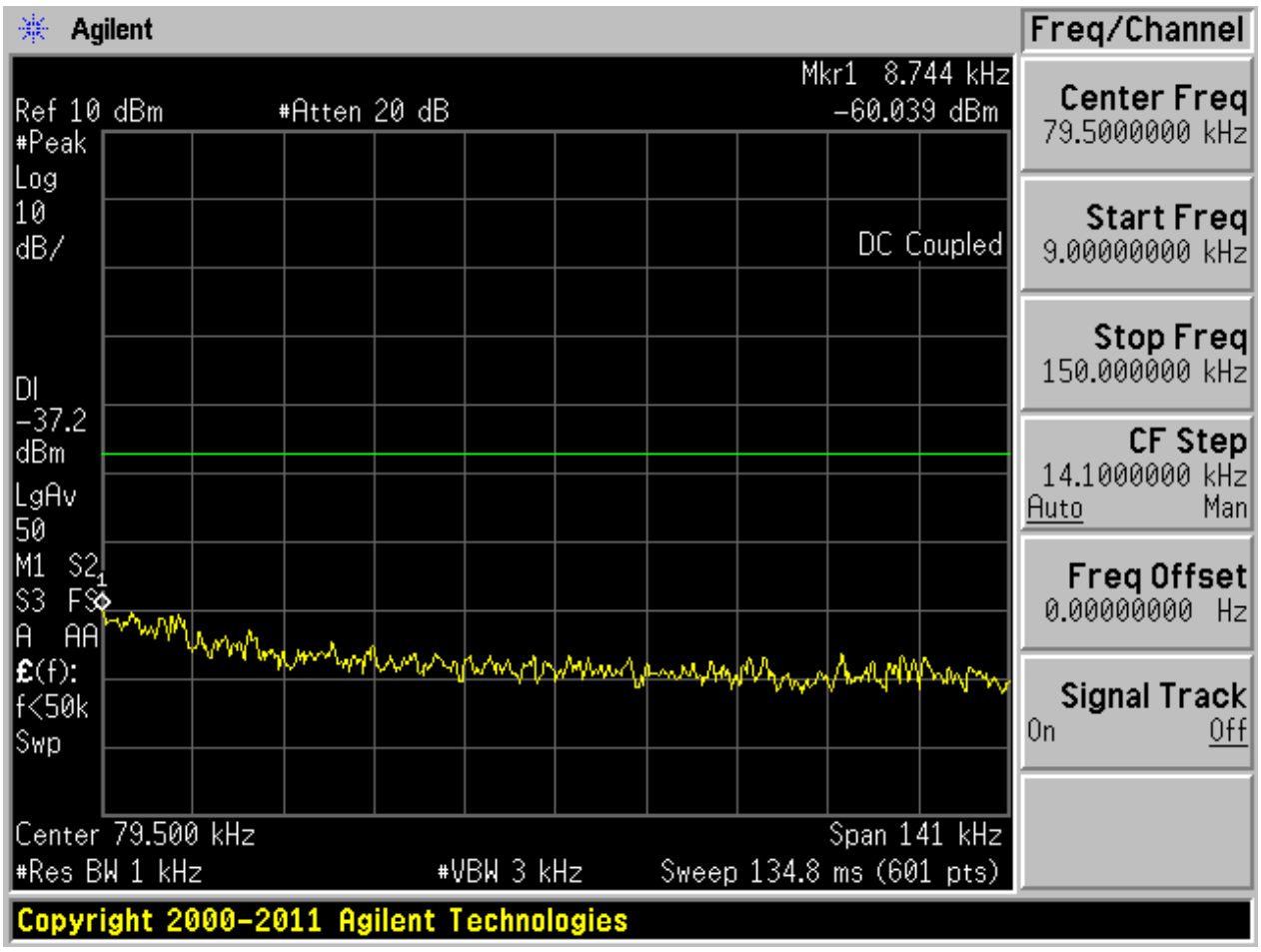

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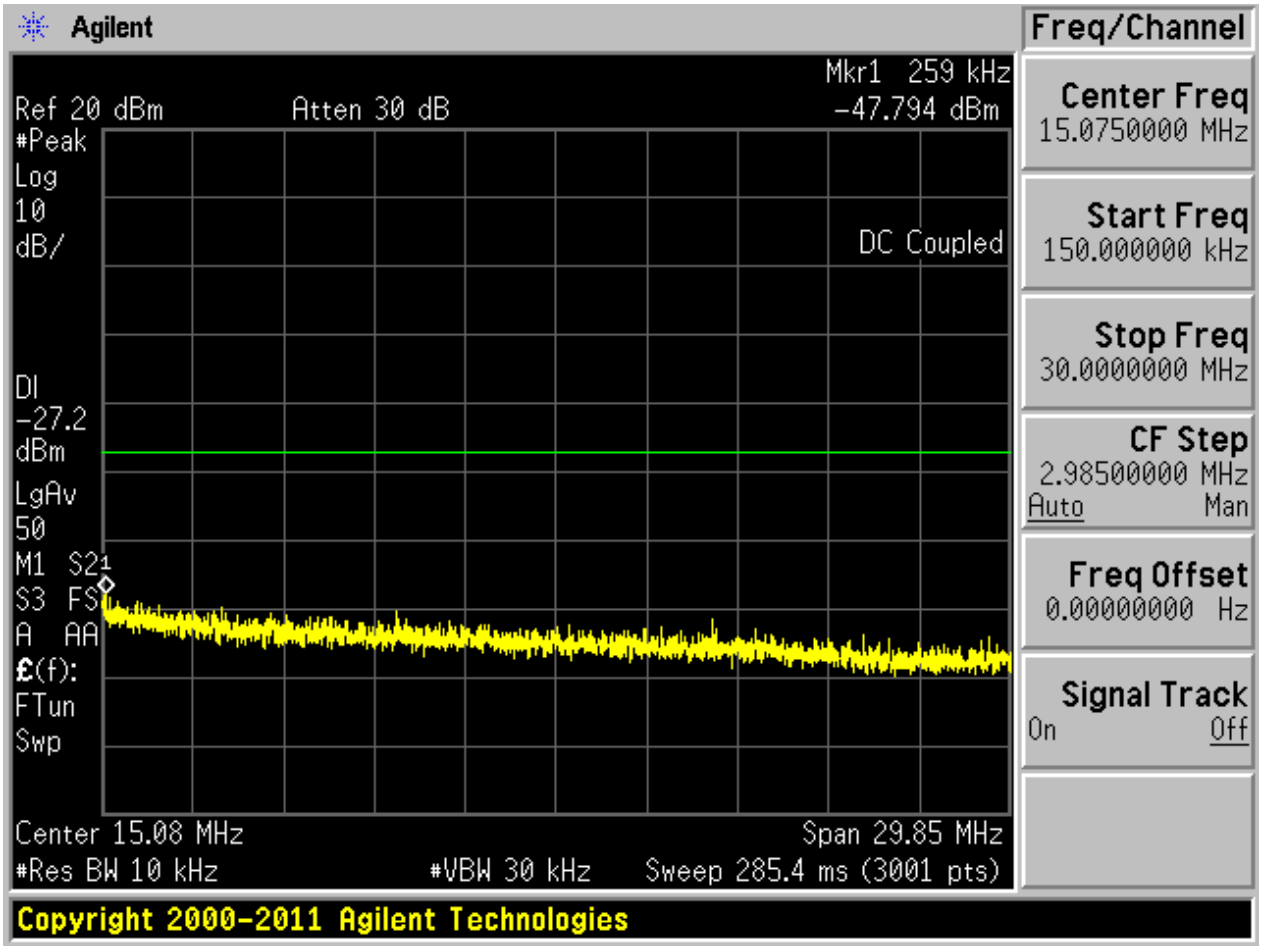

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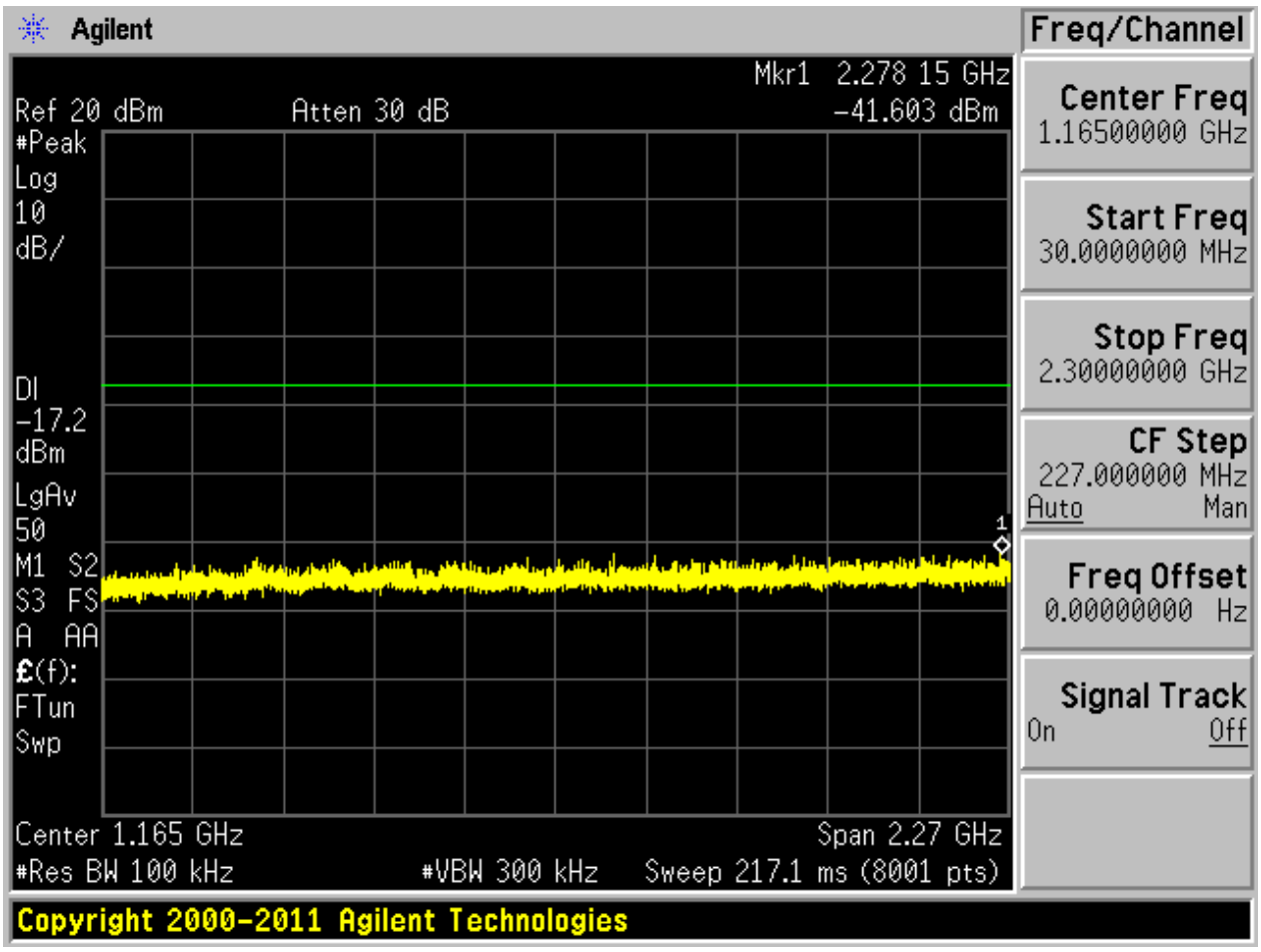

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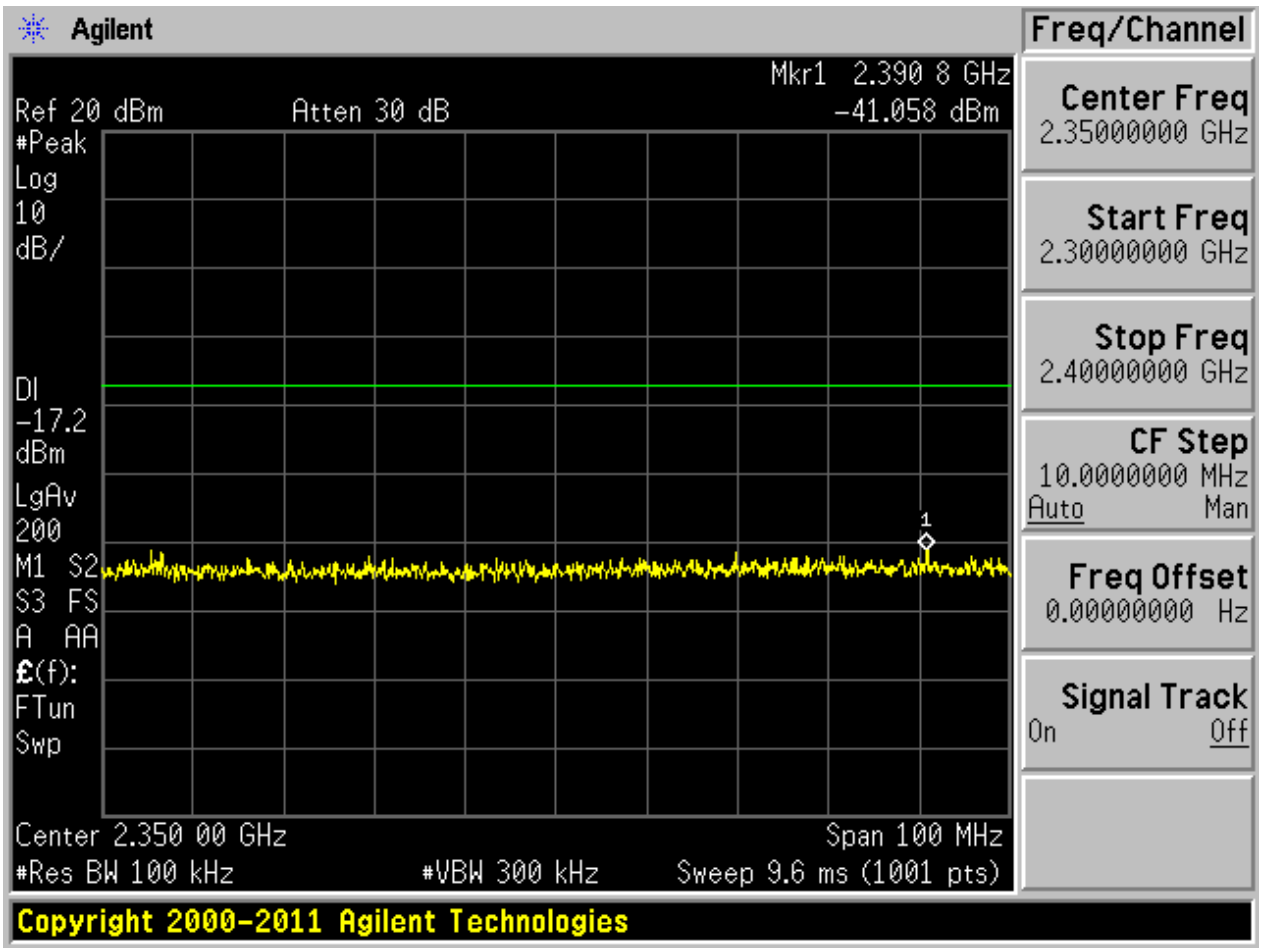

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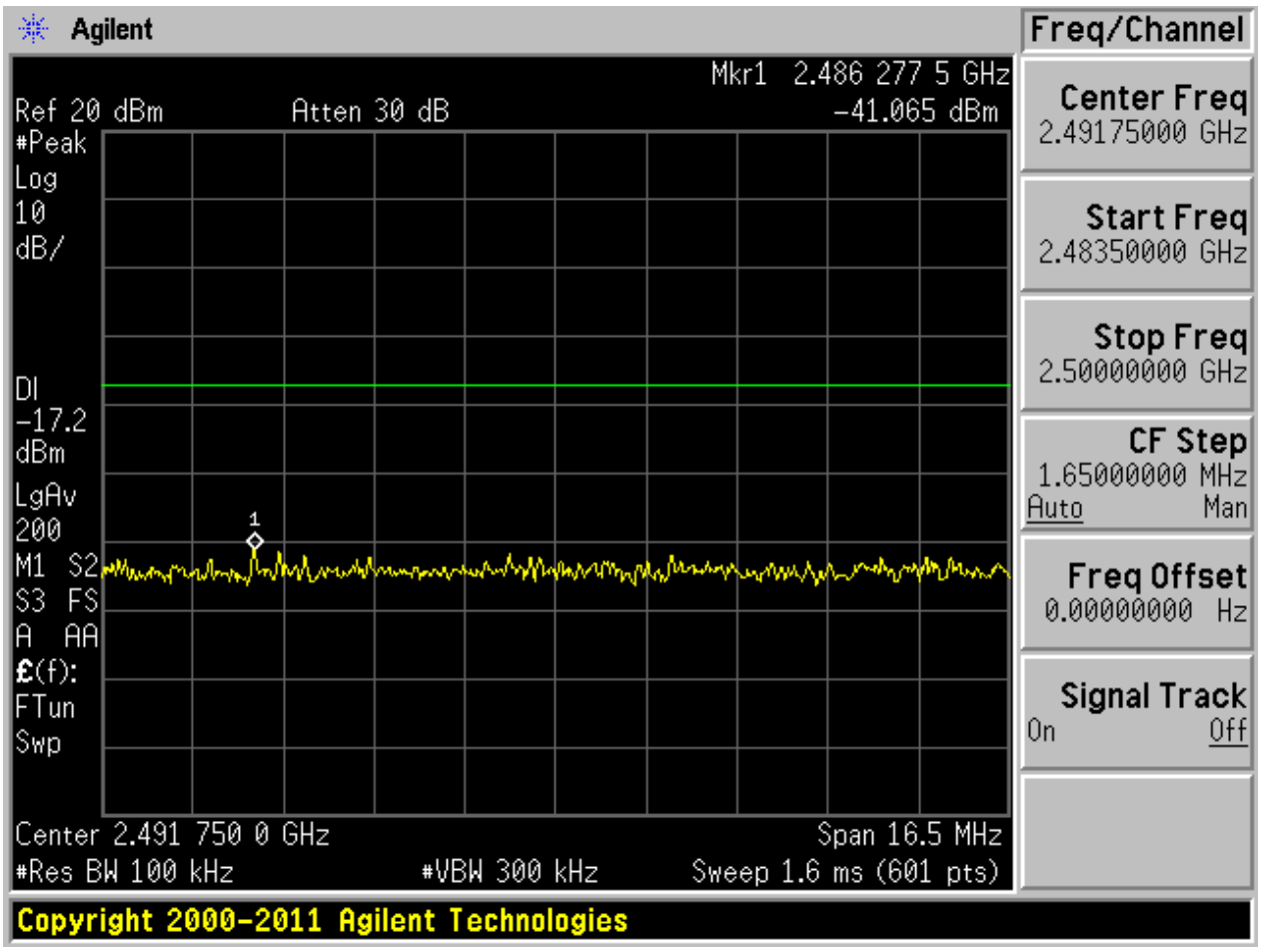

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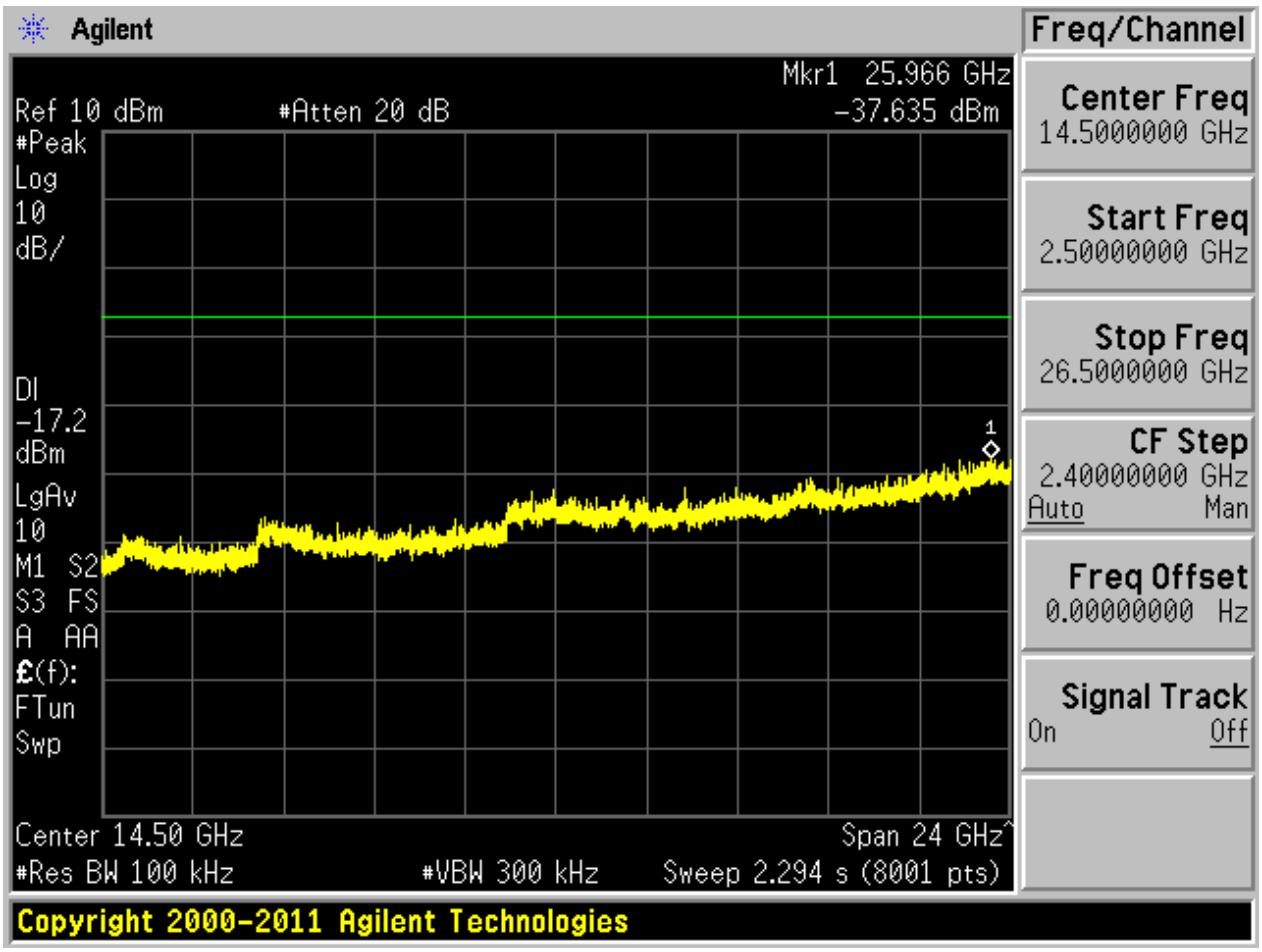

2.3 11B/1_T@1

2.3.1 Pref

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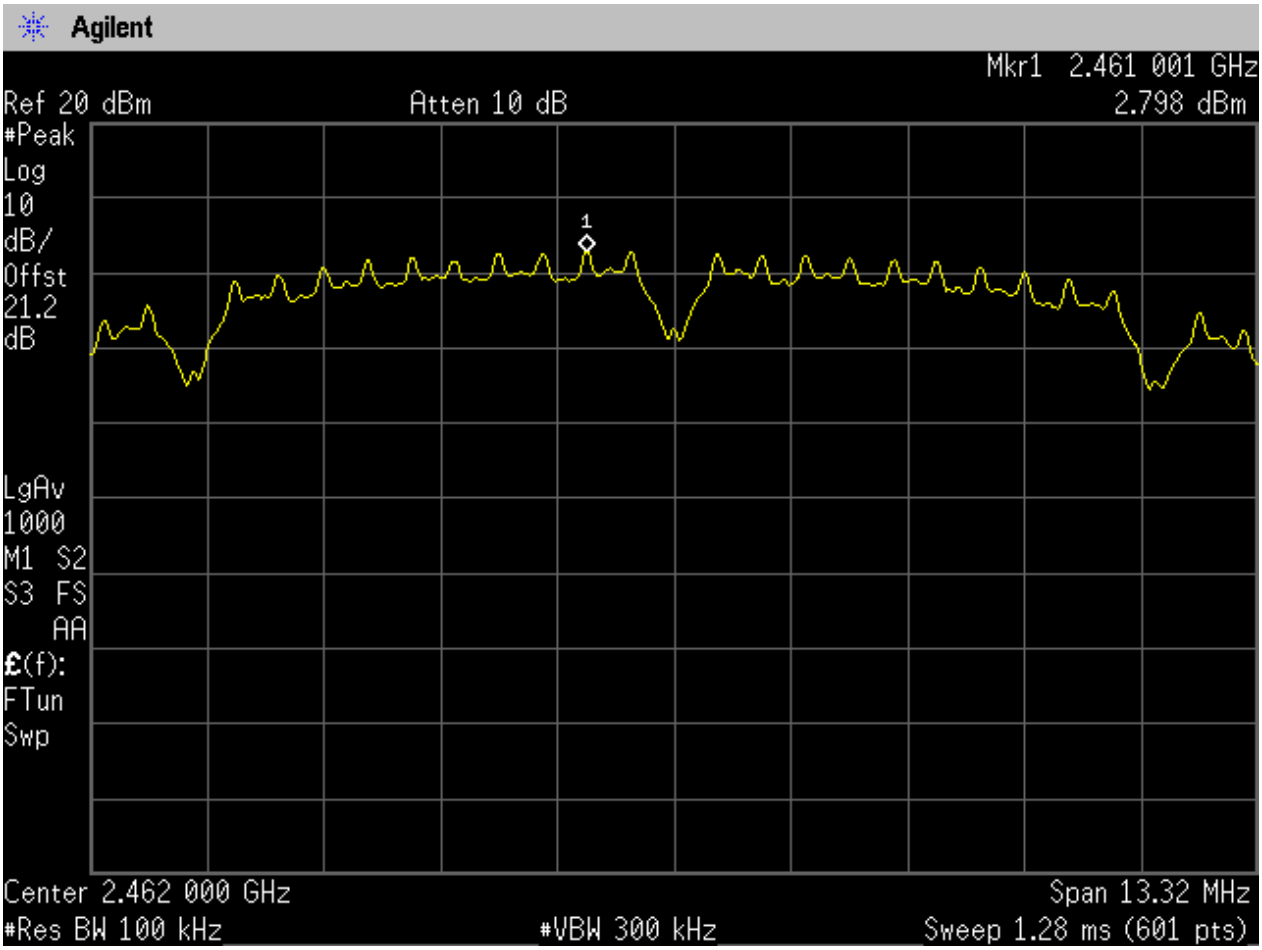

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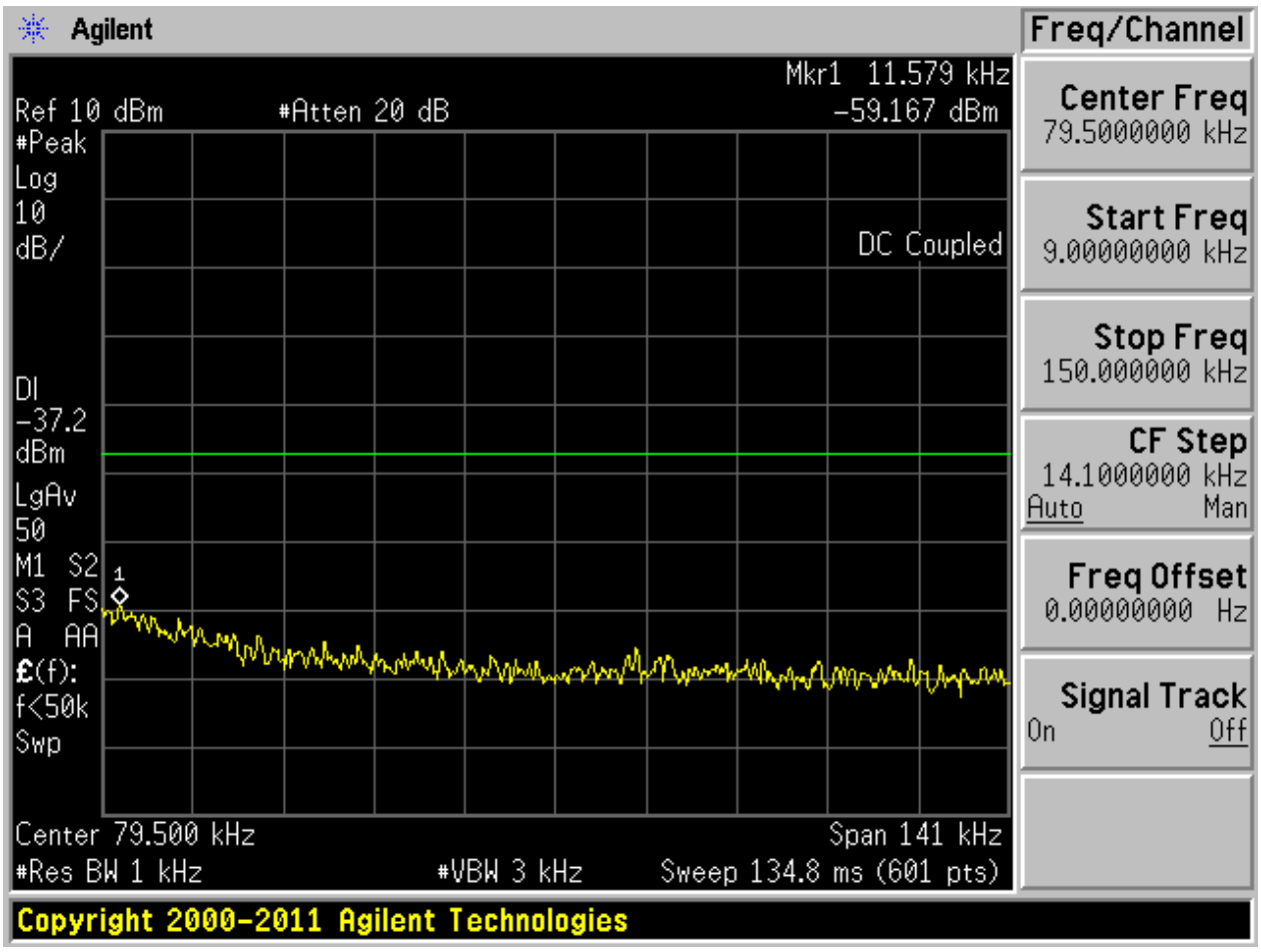

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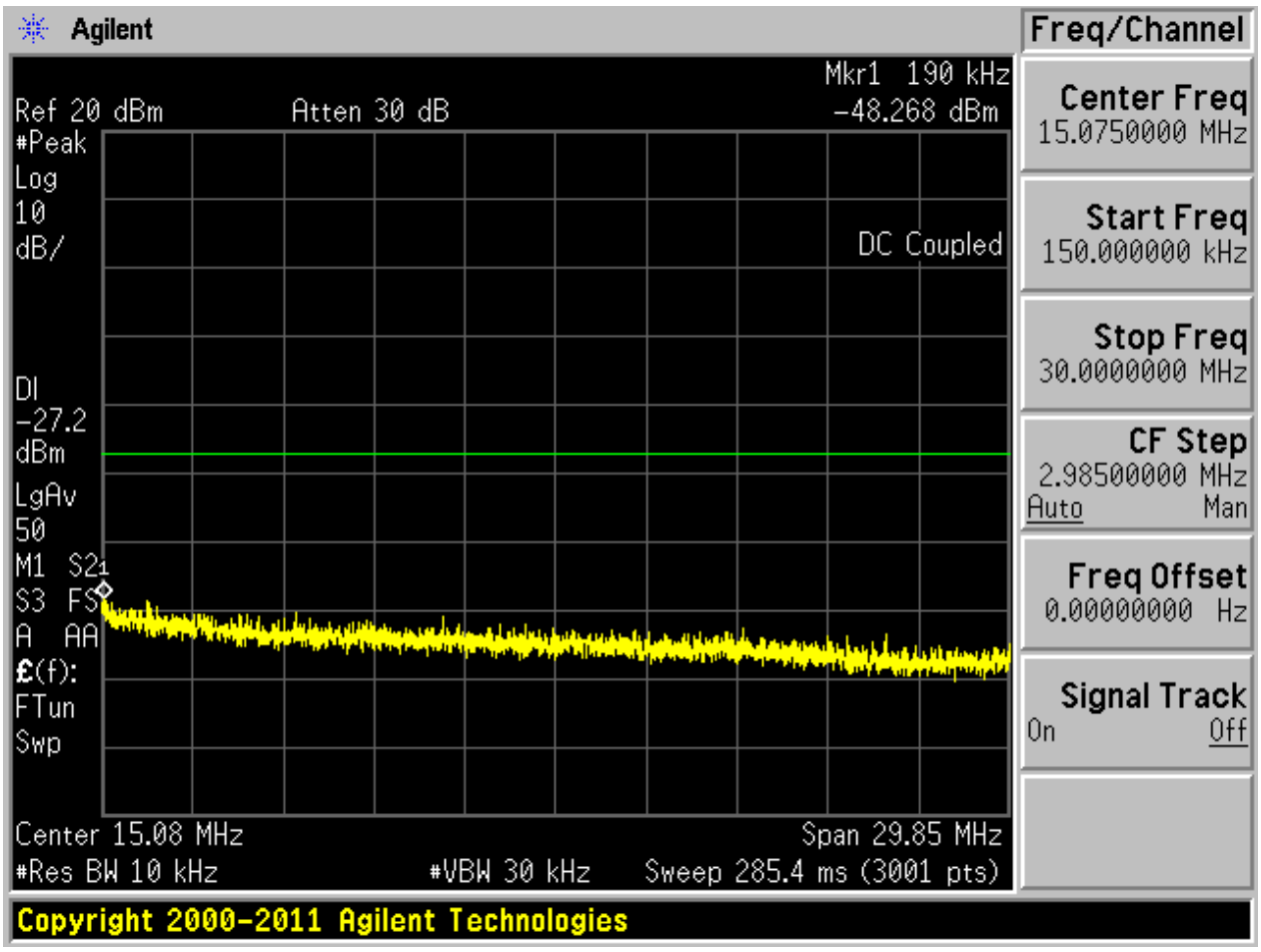

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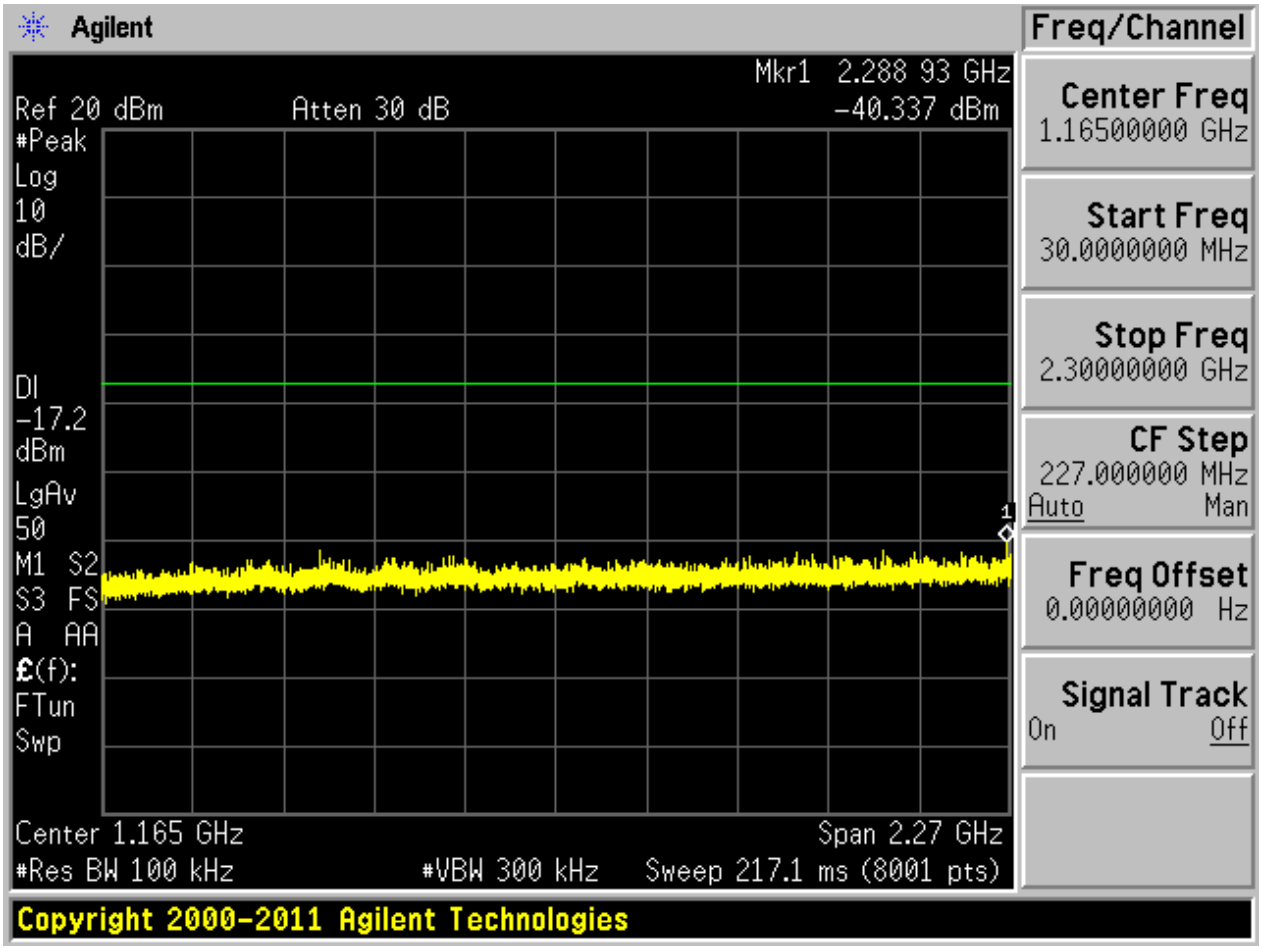

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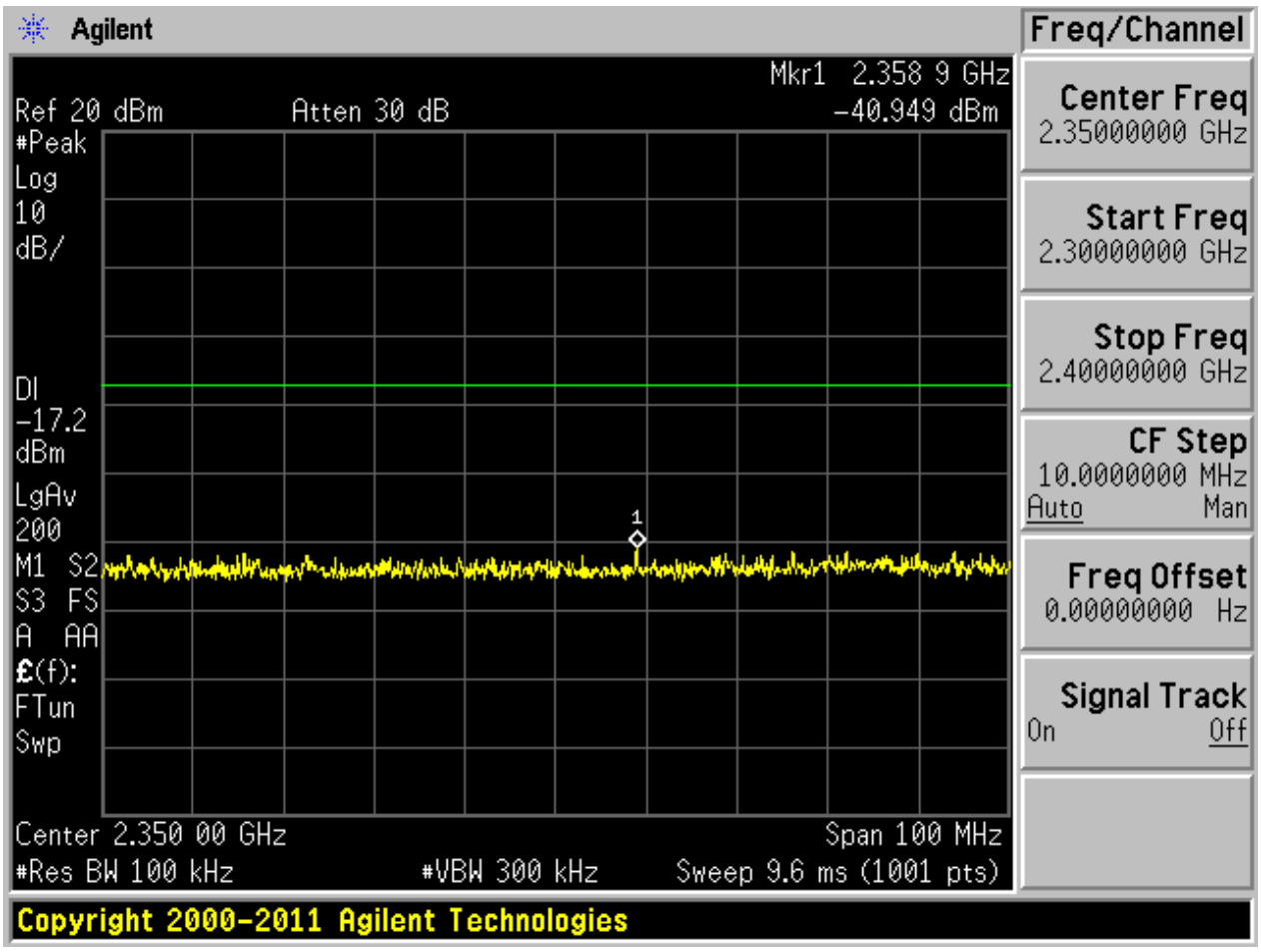

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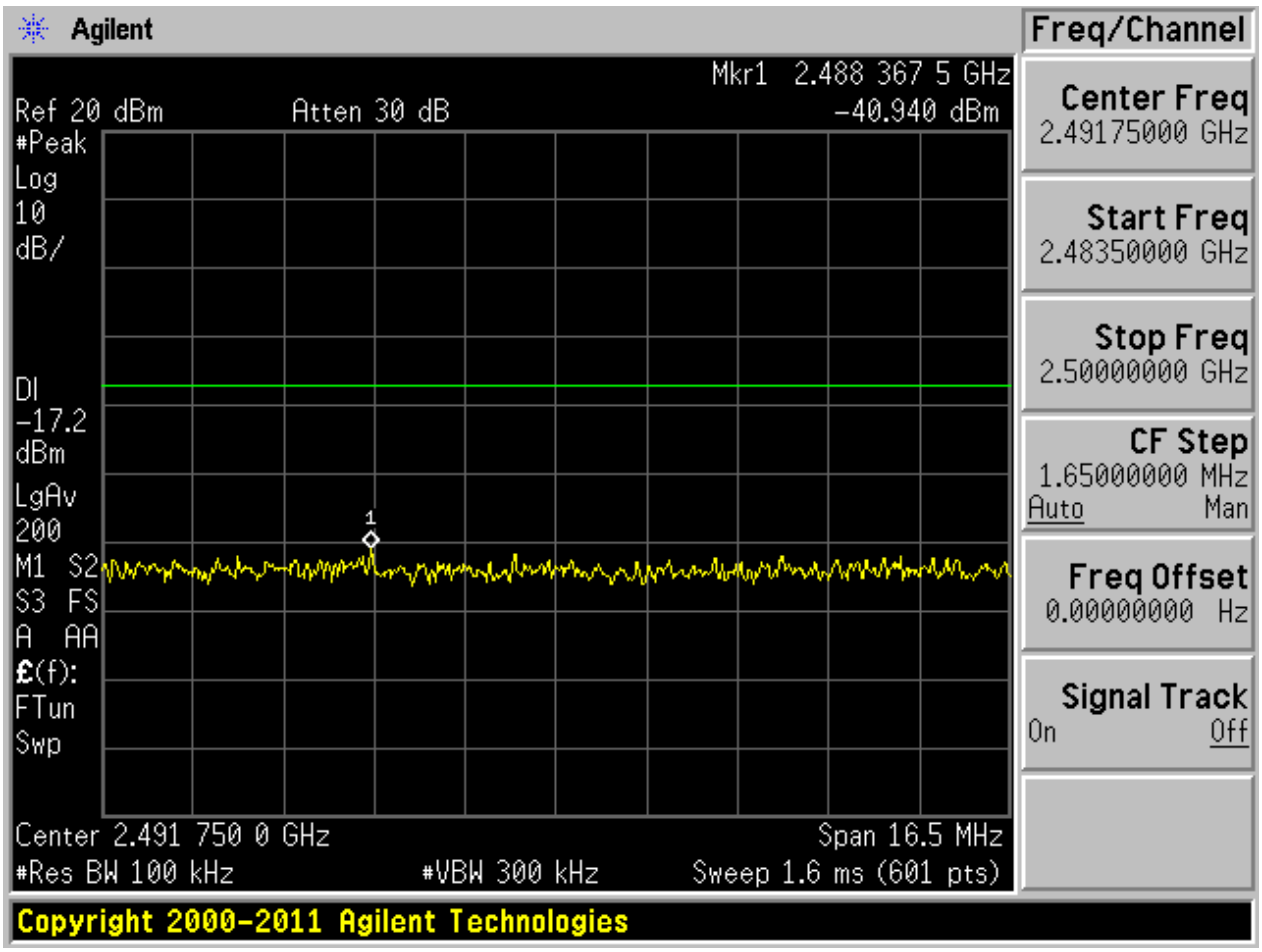

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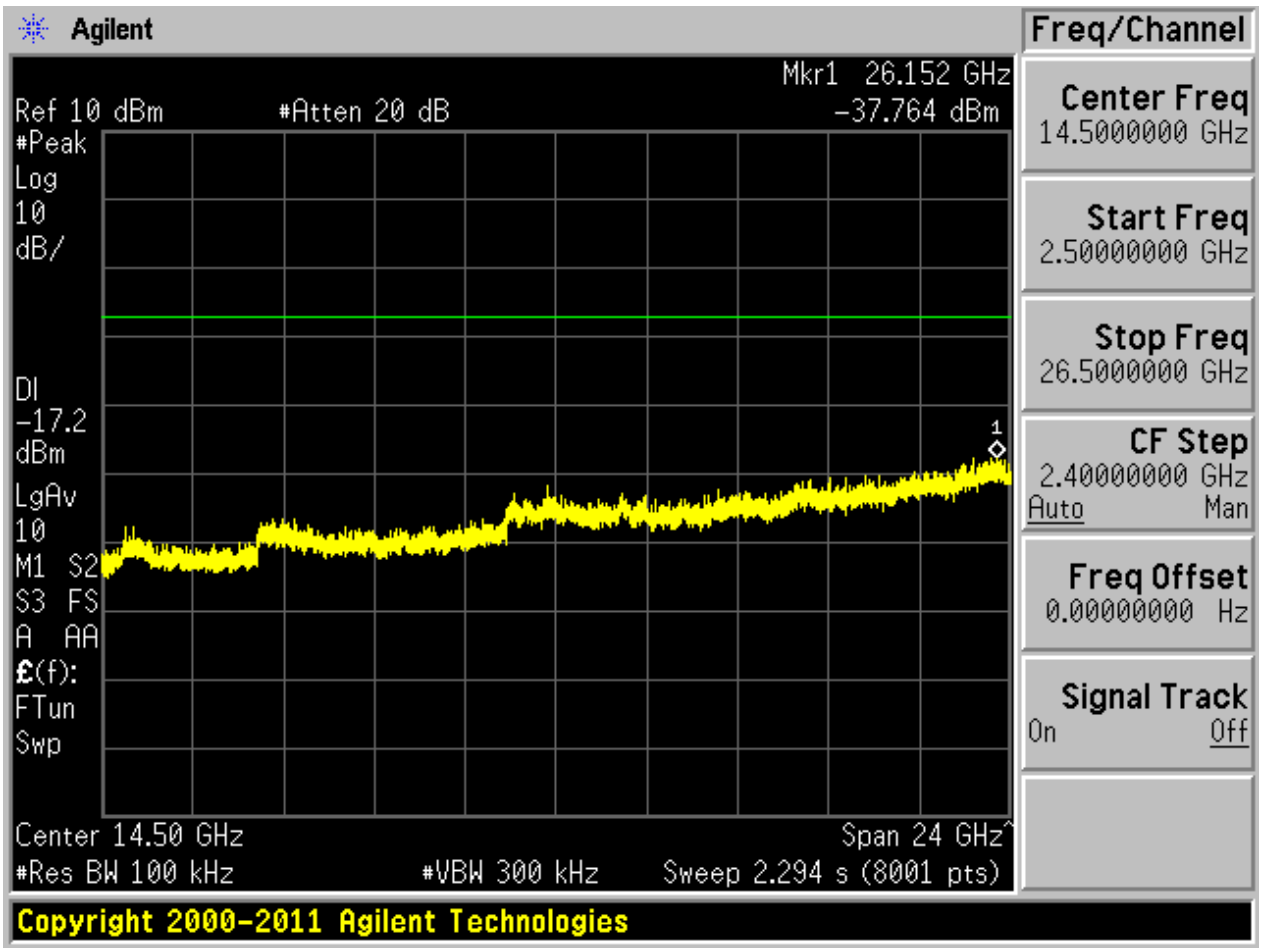

2.4 11Bd/1_B@1+2

2.4.1 Ant 1

2.4.1.1 Pref

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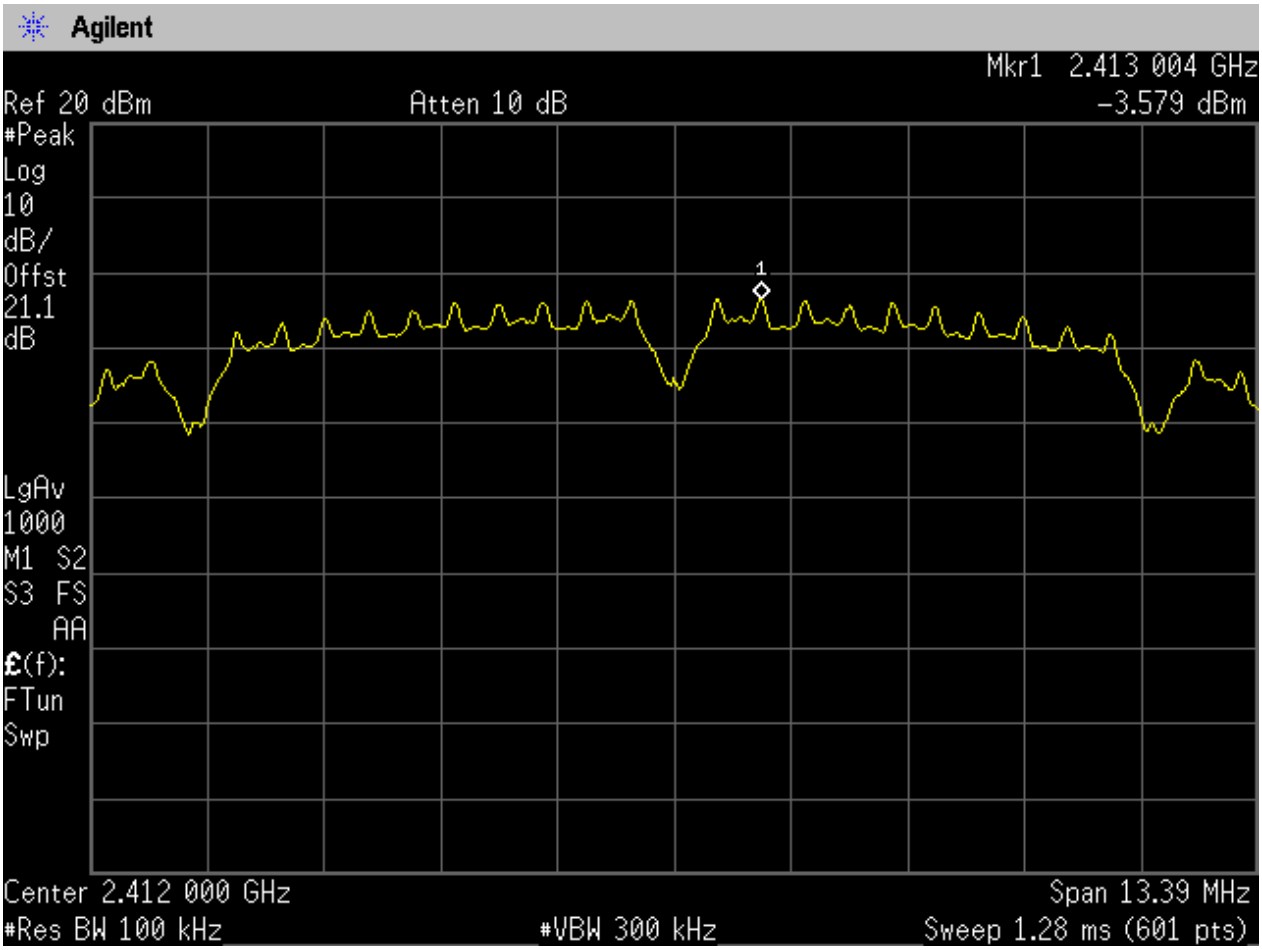

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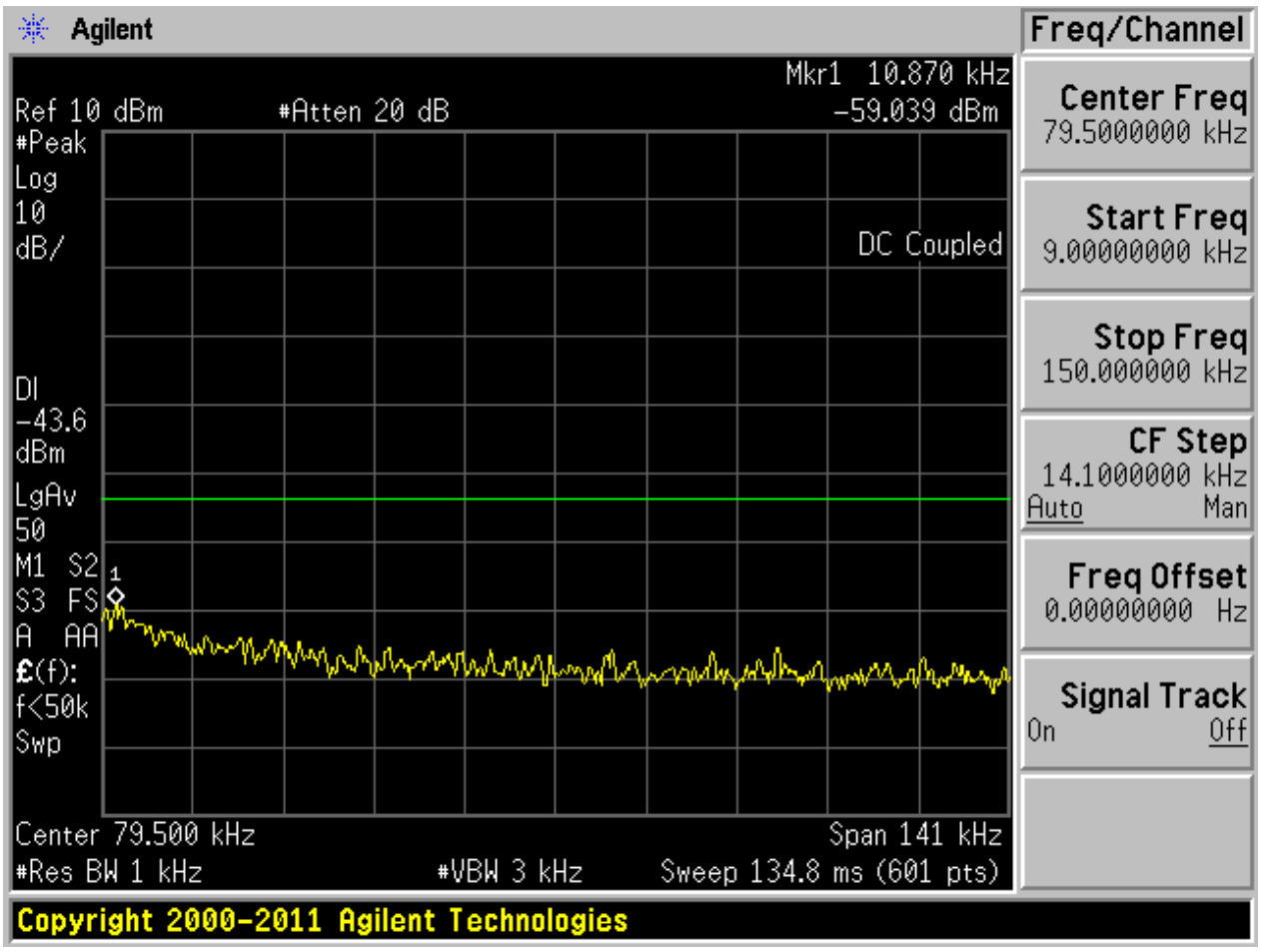

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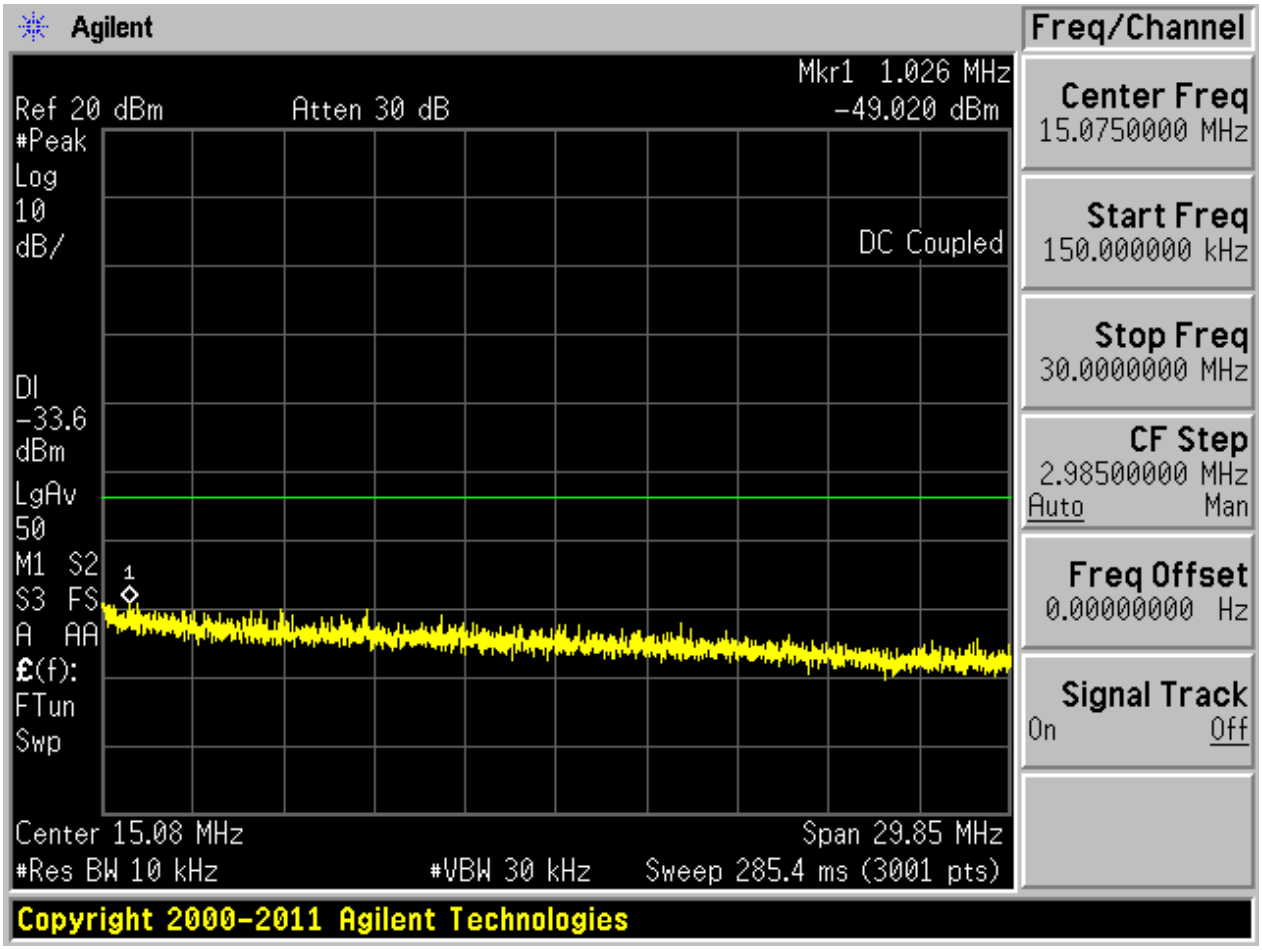

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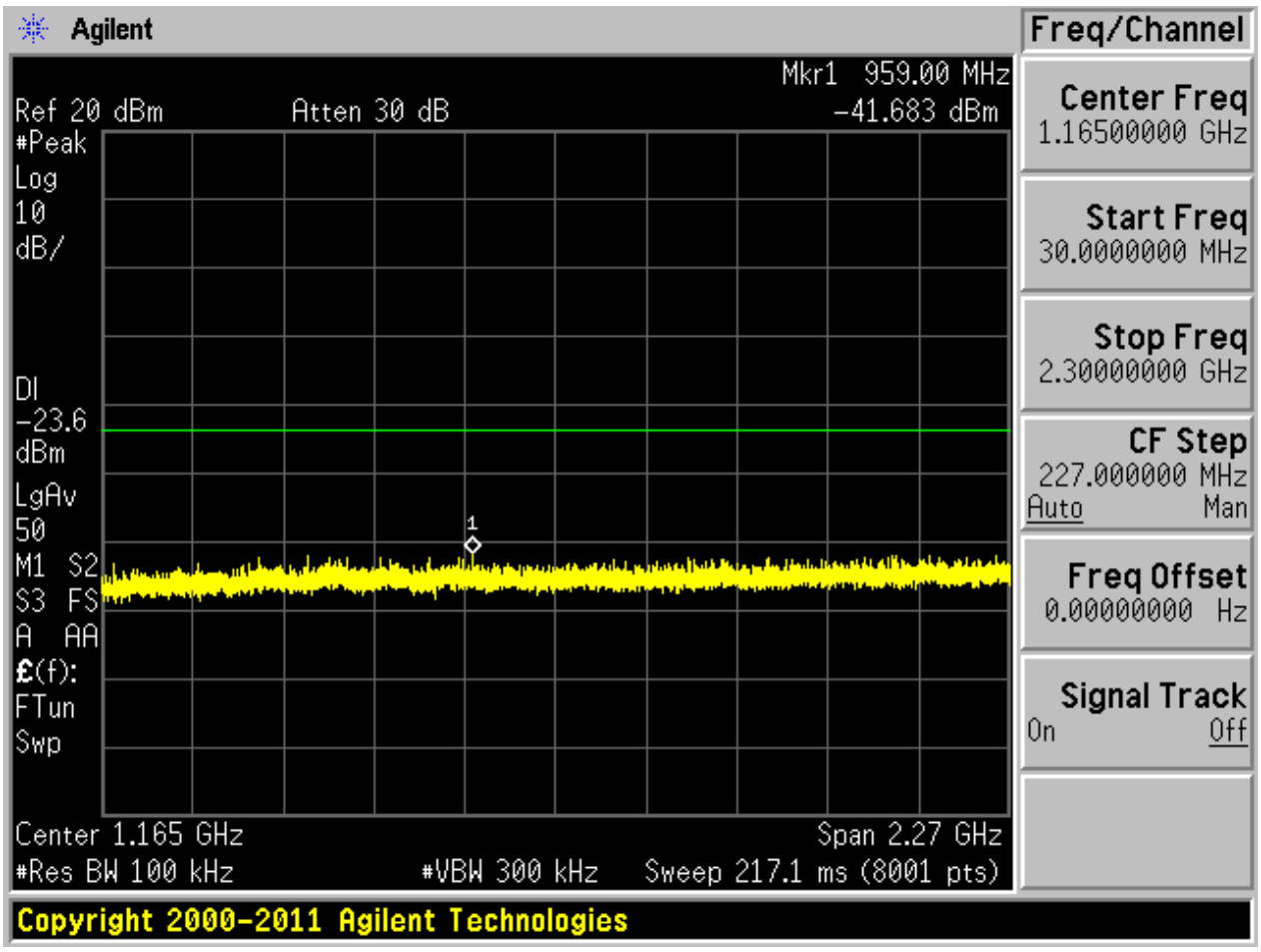

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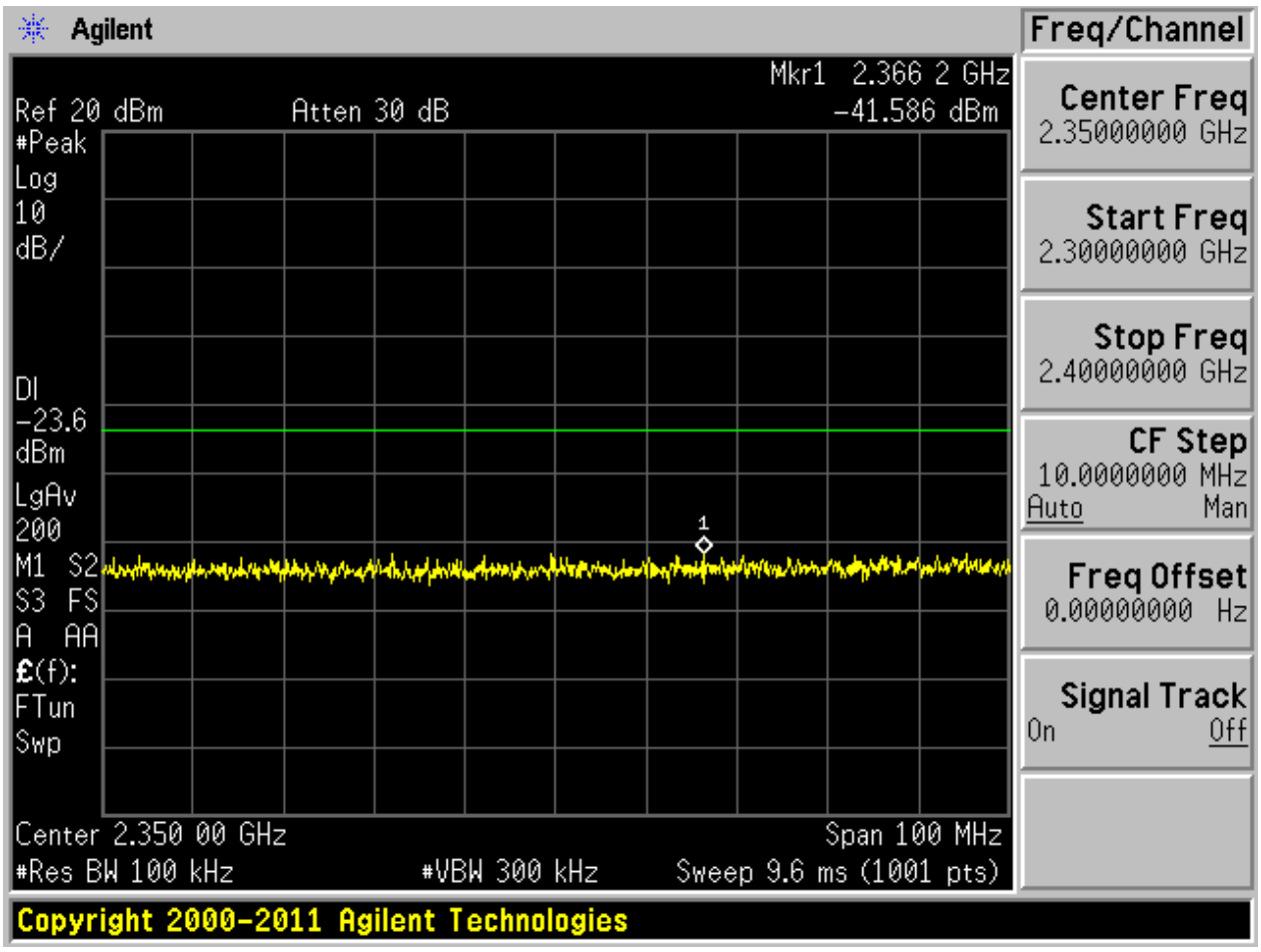

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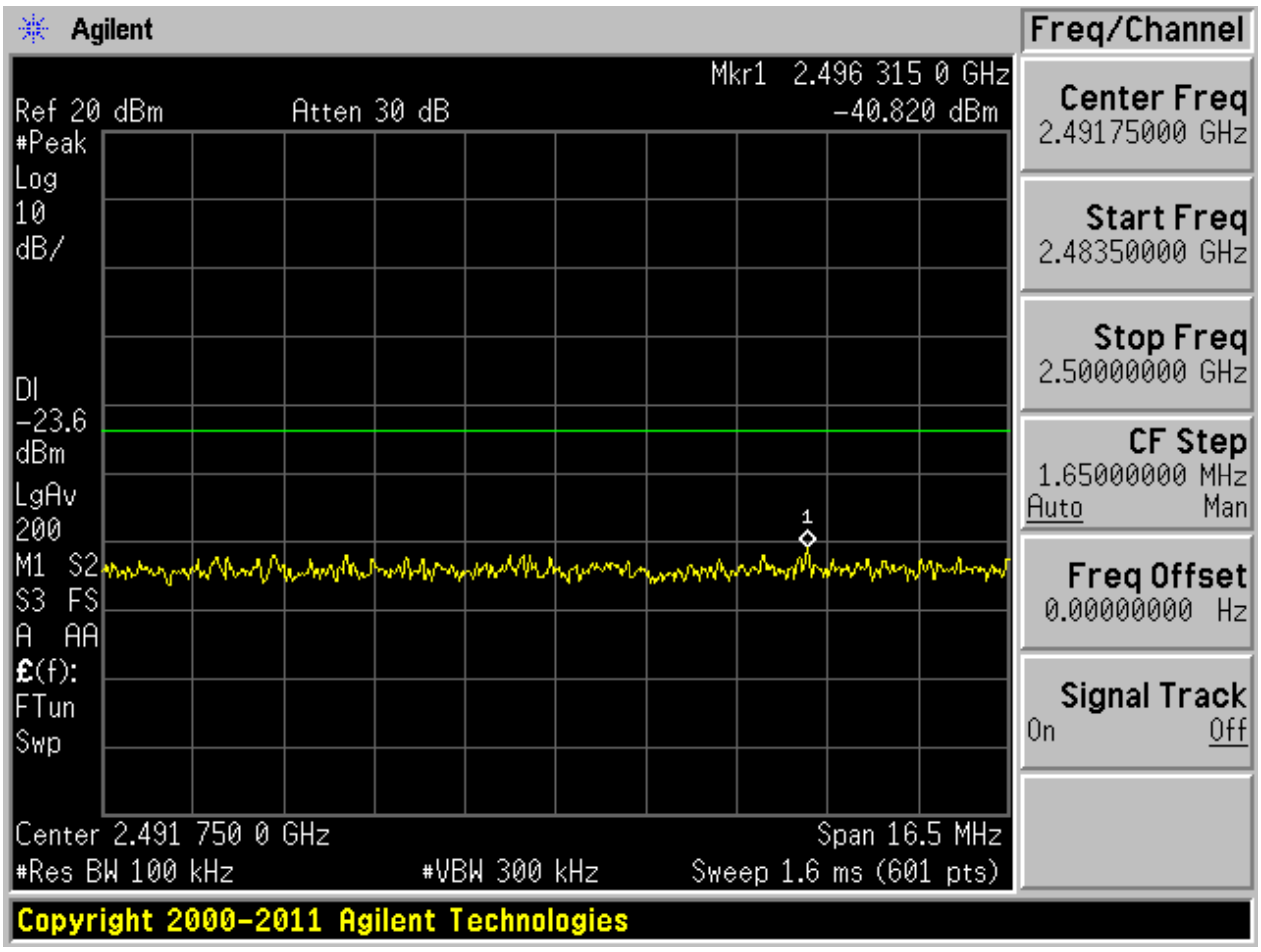

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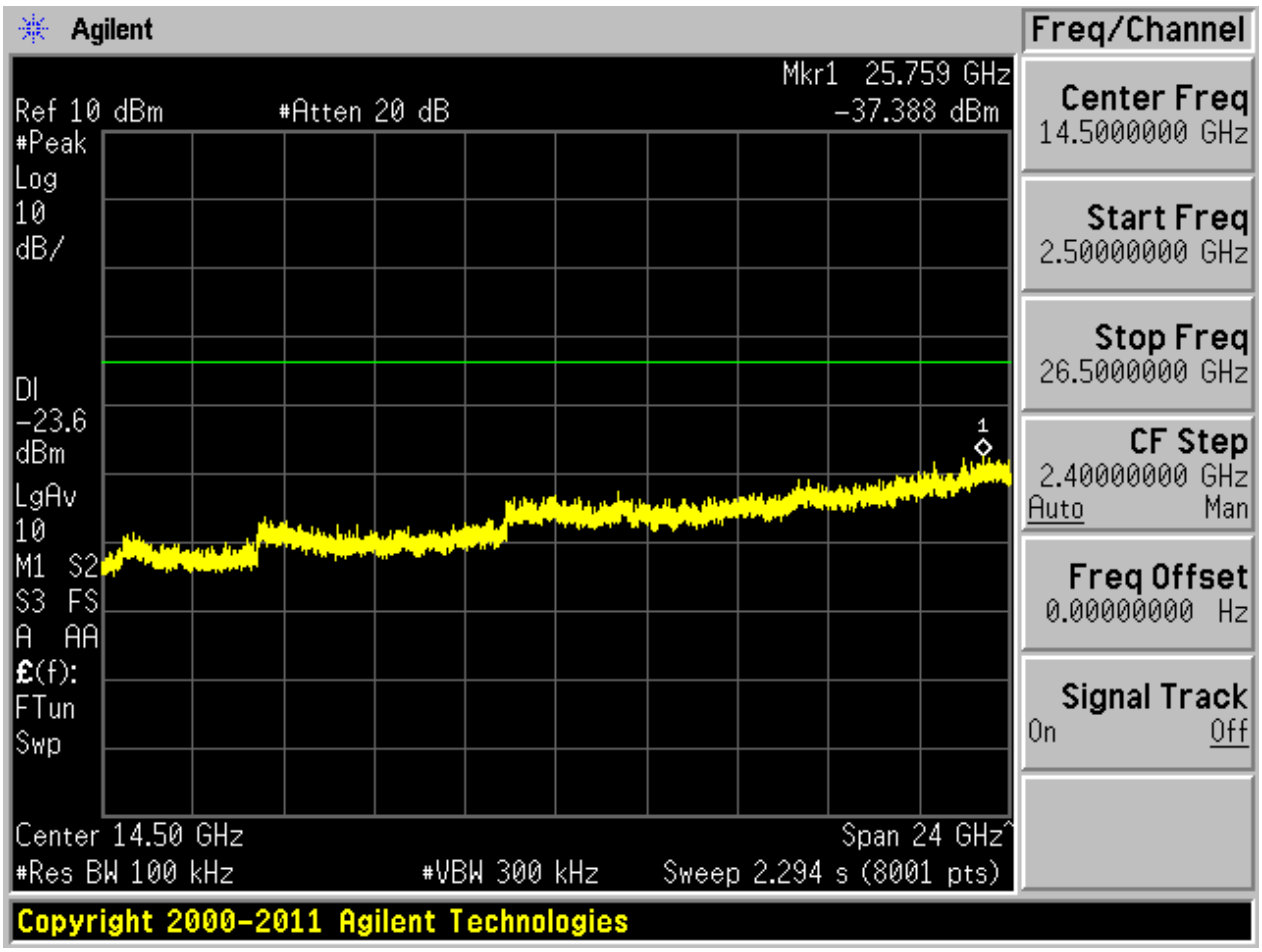

2.4.2 Ant 2

2.4.2.1 Pref

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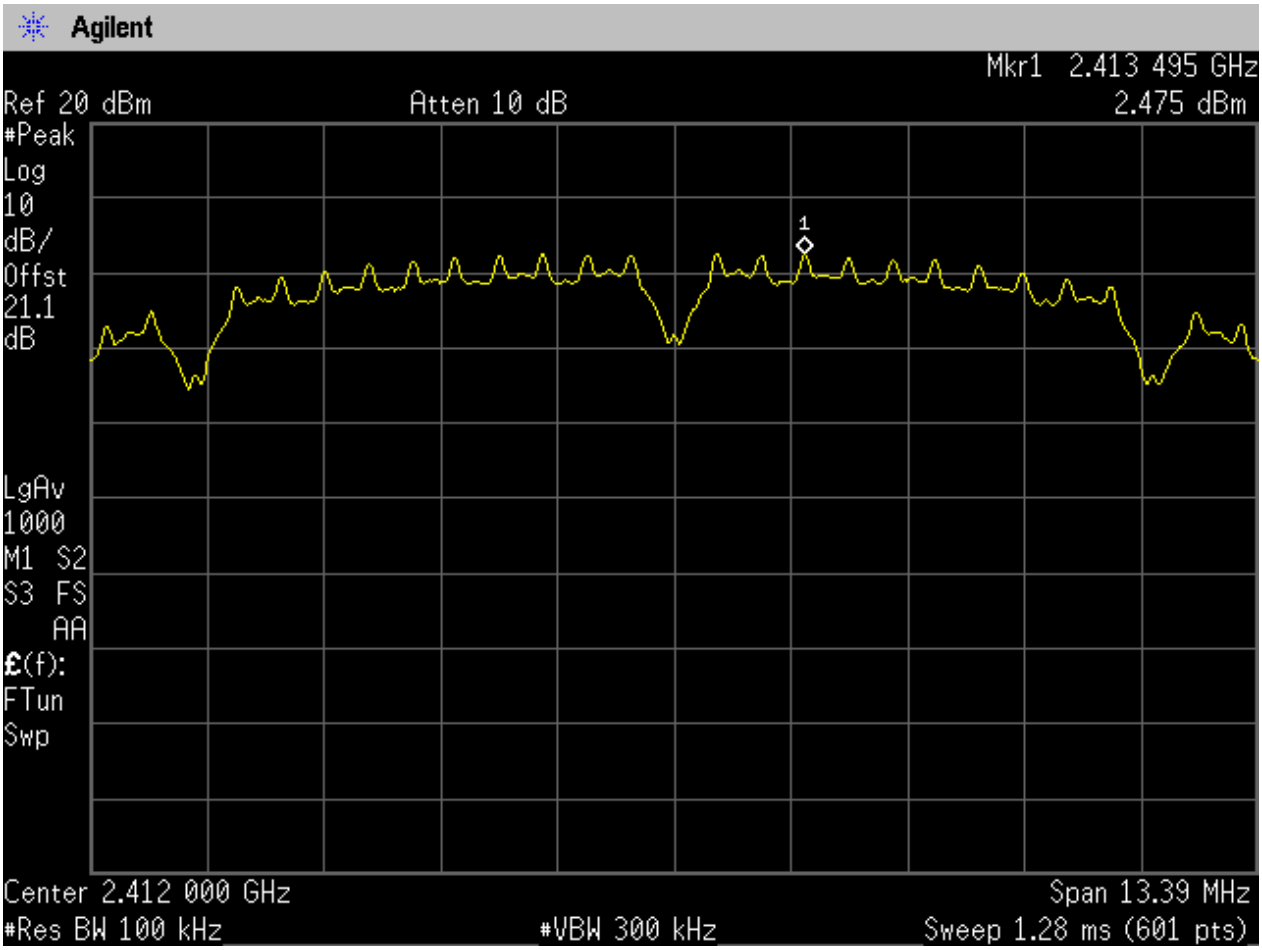

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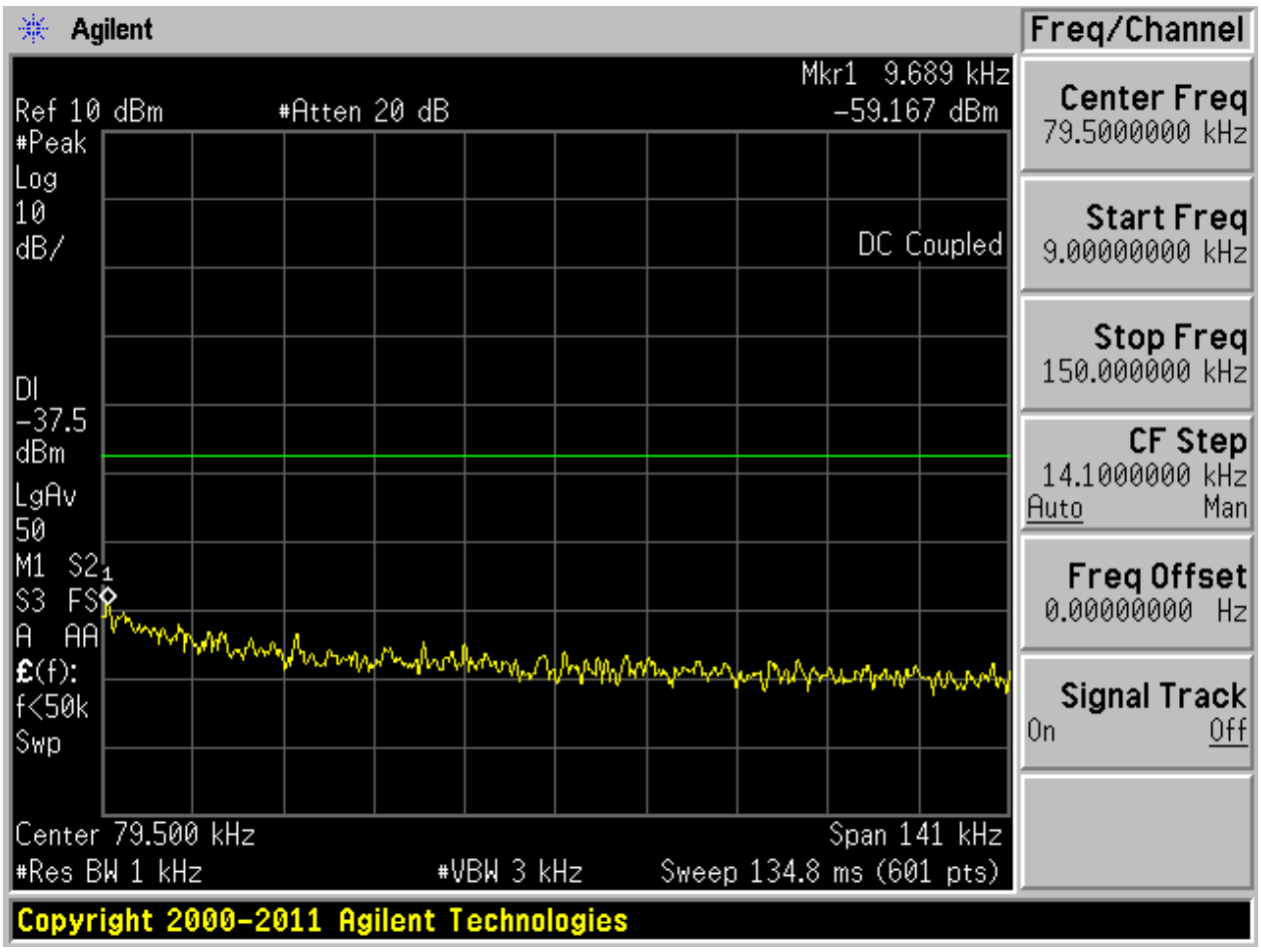

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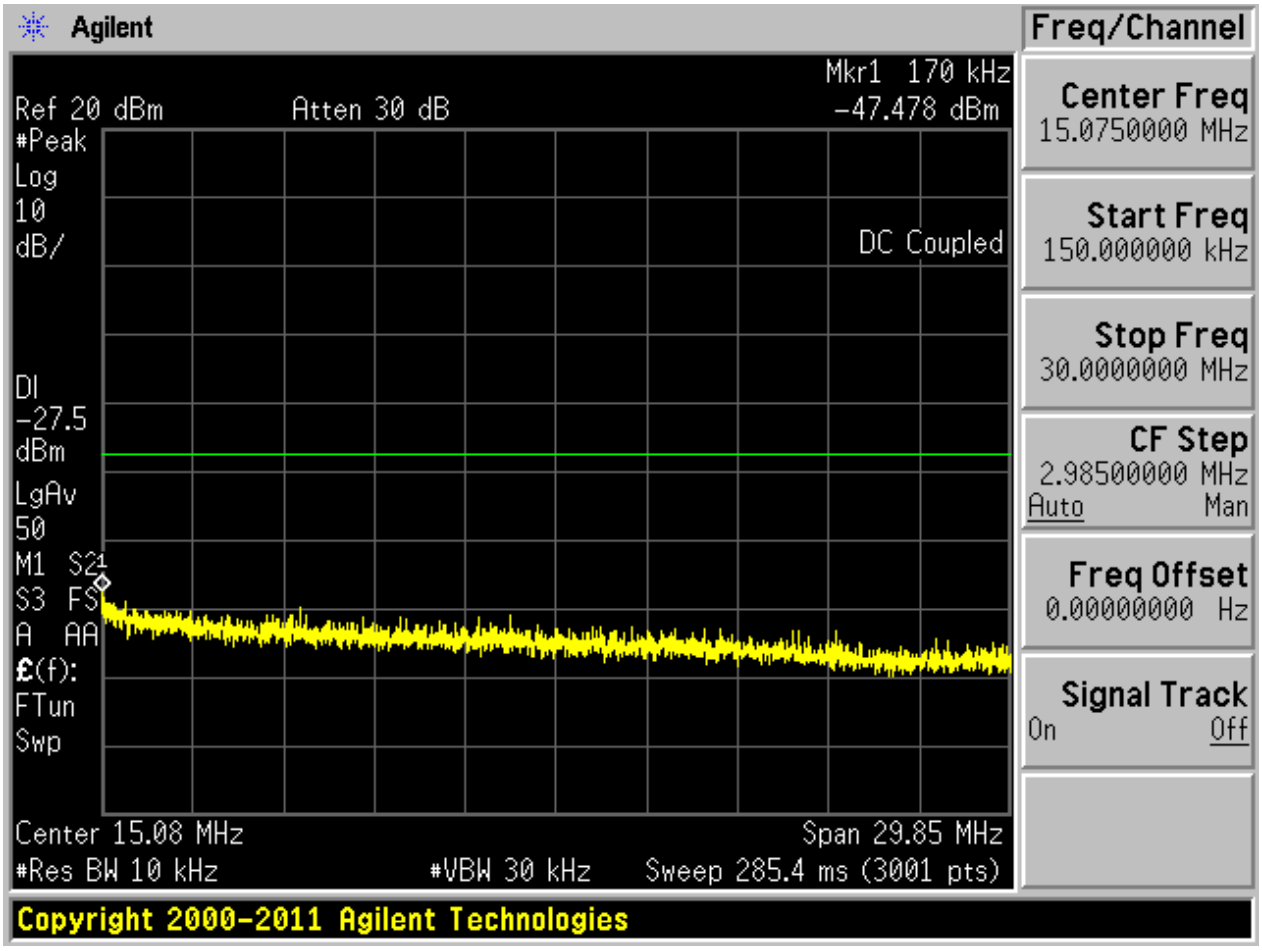

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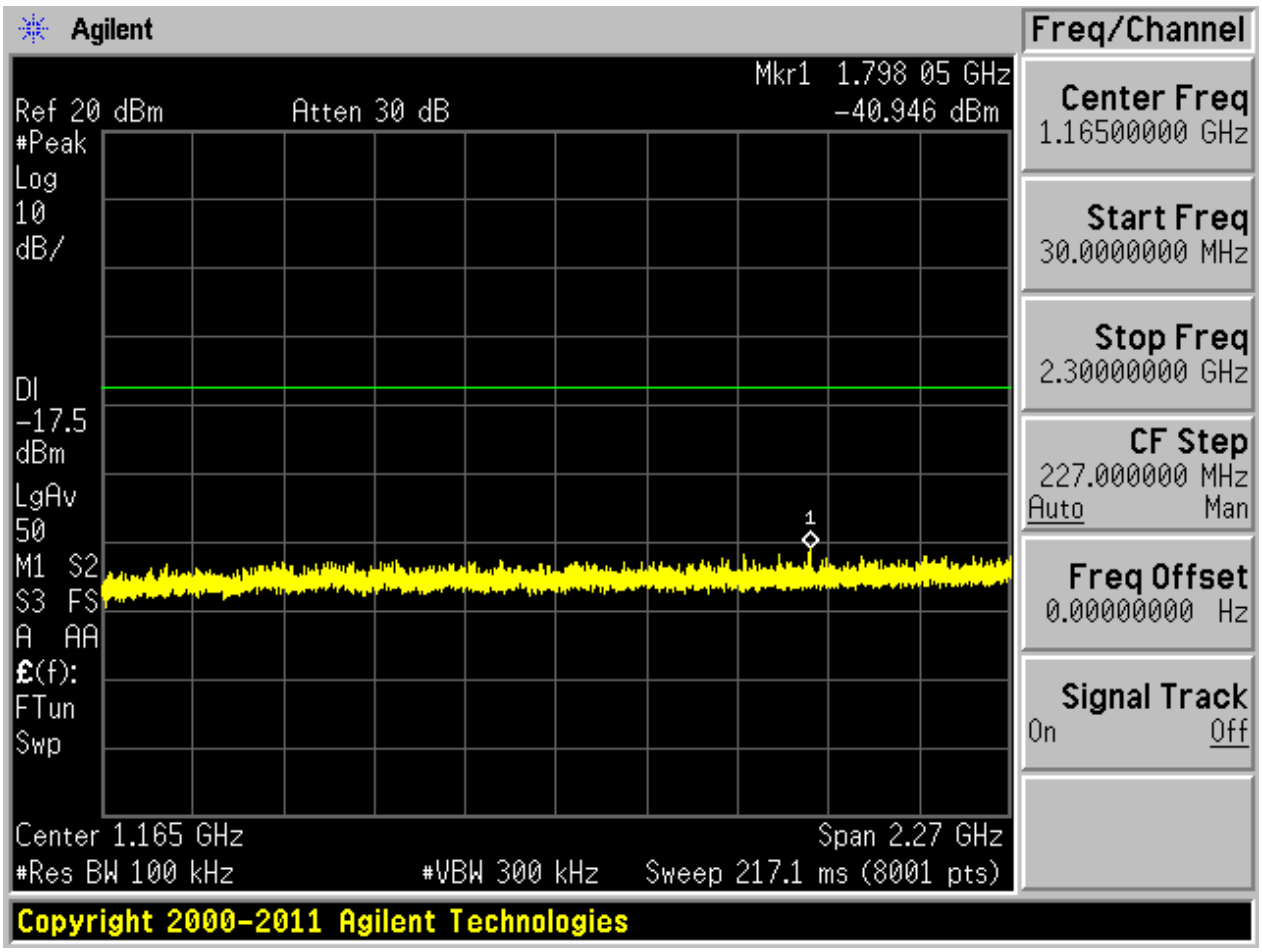

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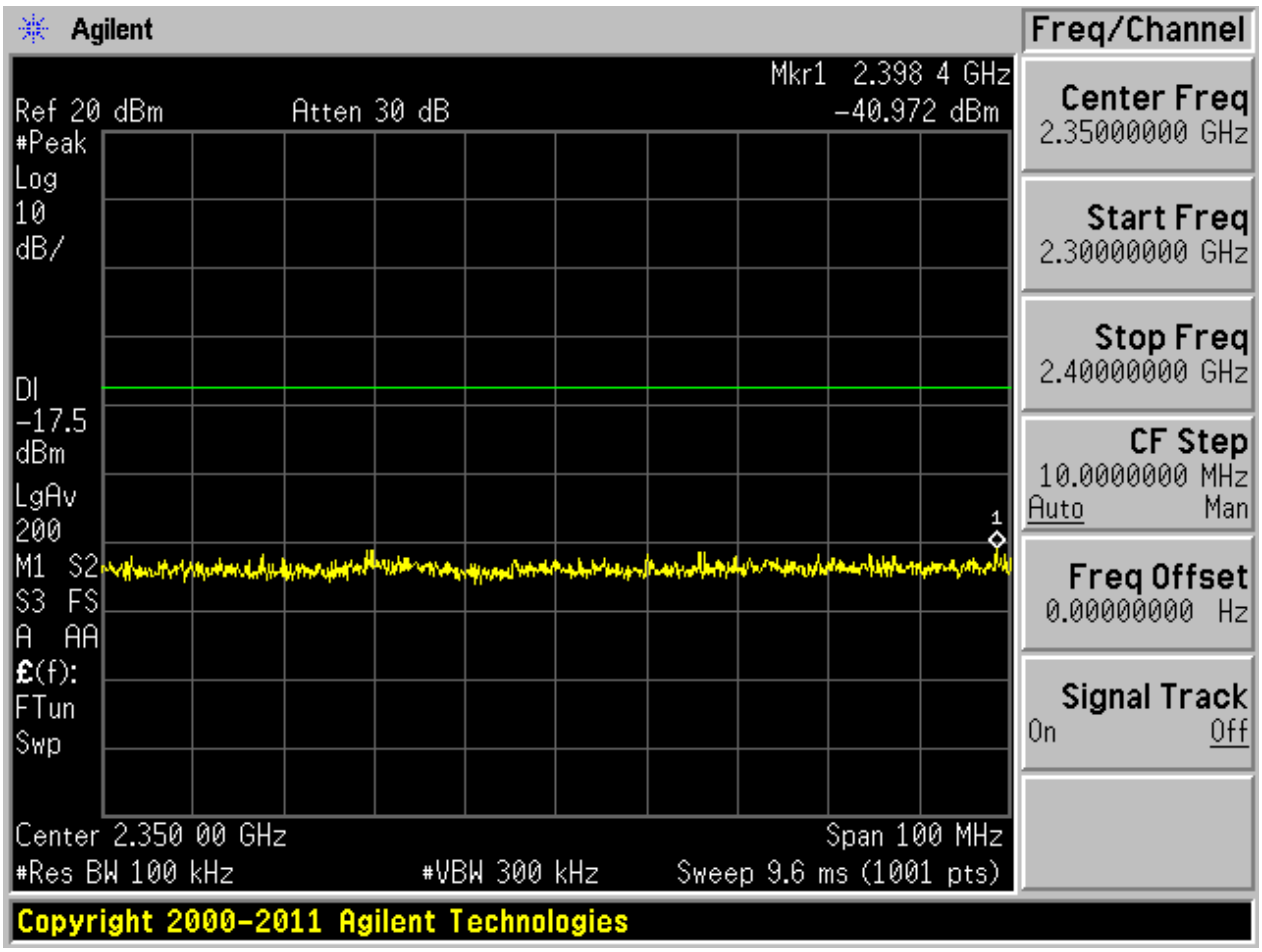

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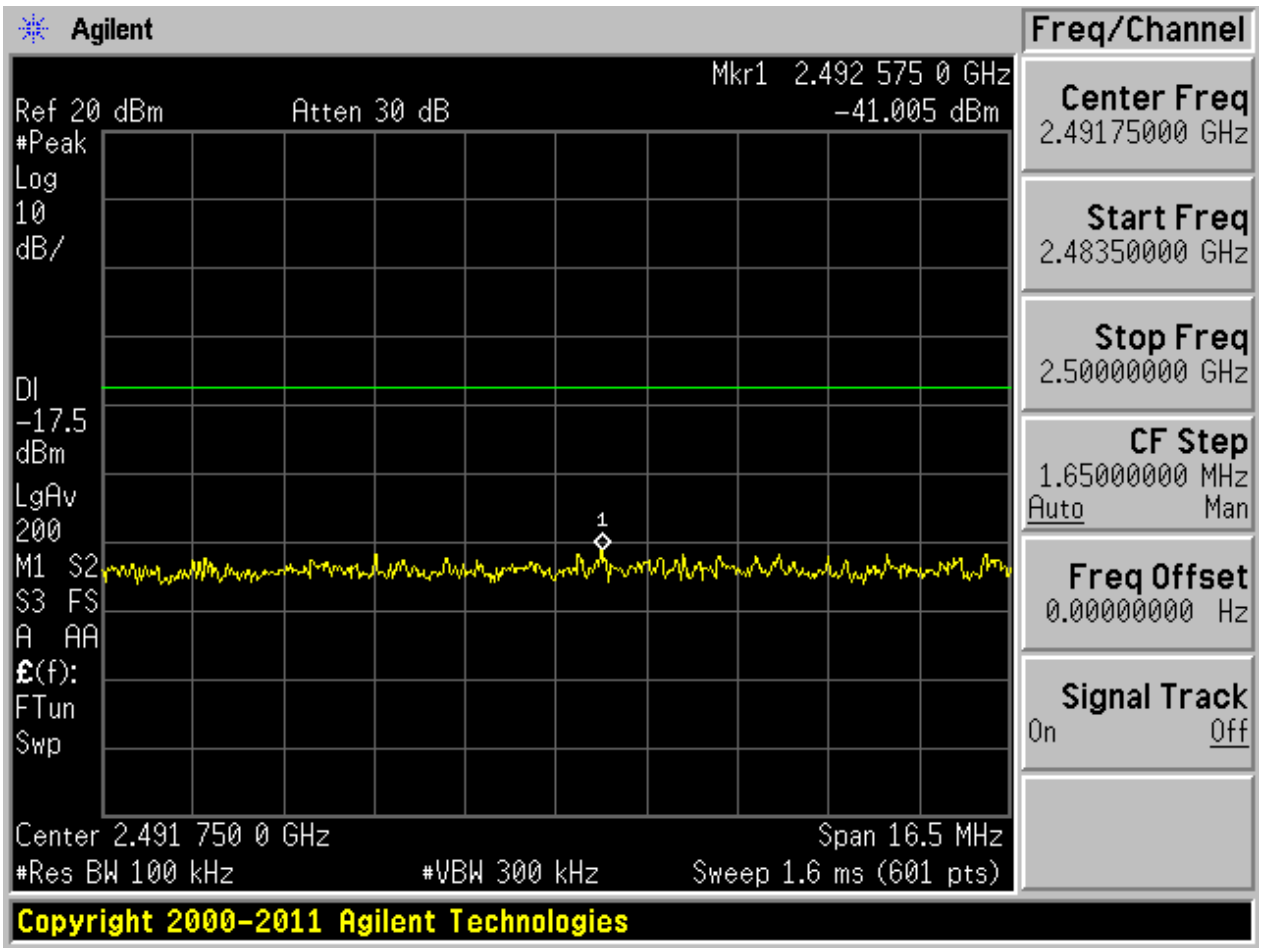

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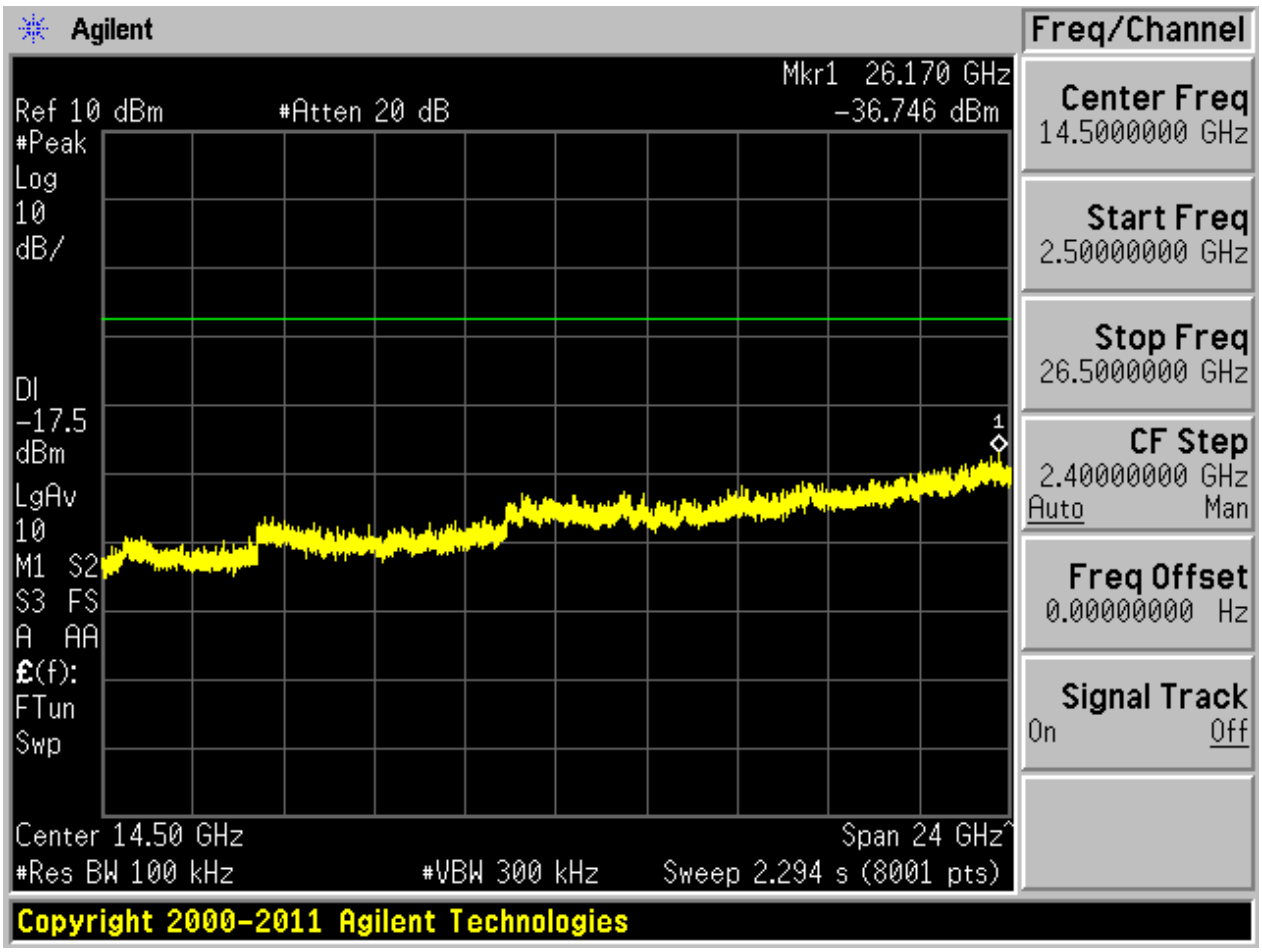

2.5 11Bd/1_M@1+2

2.5.1 Ant 1

2.5.1.1 Pref

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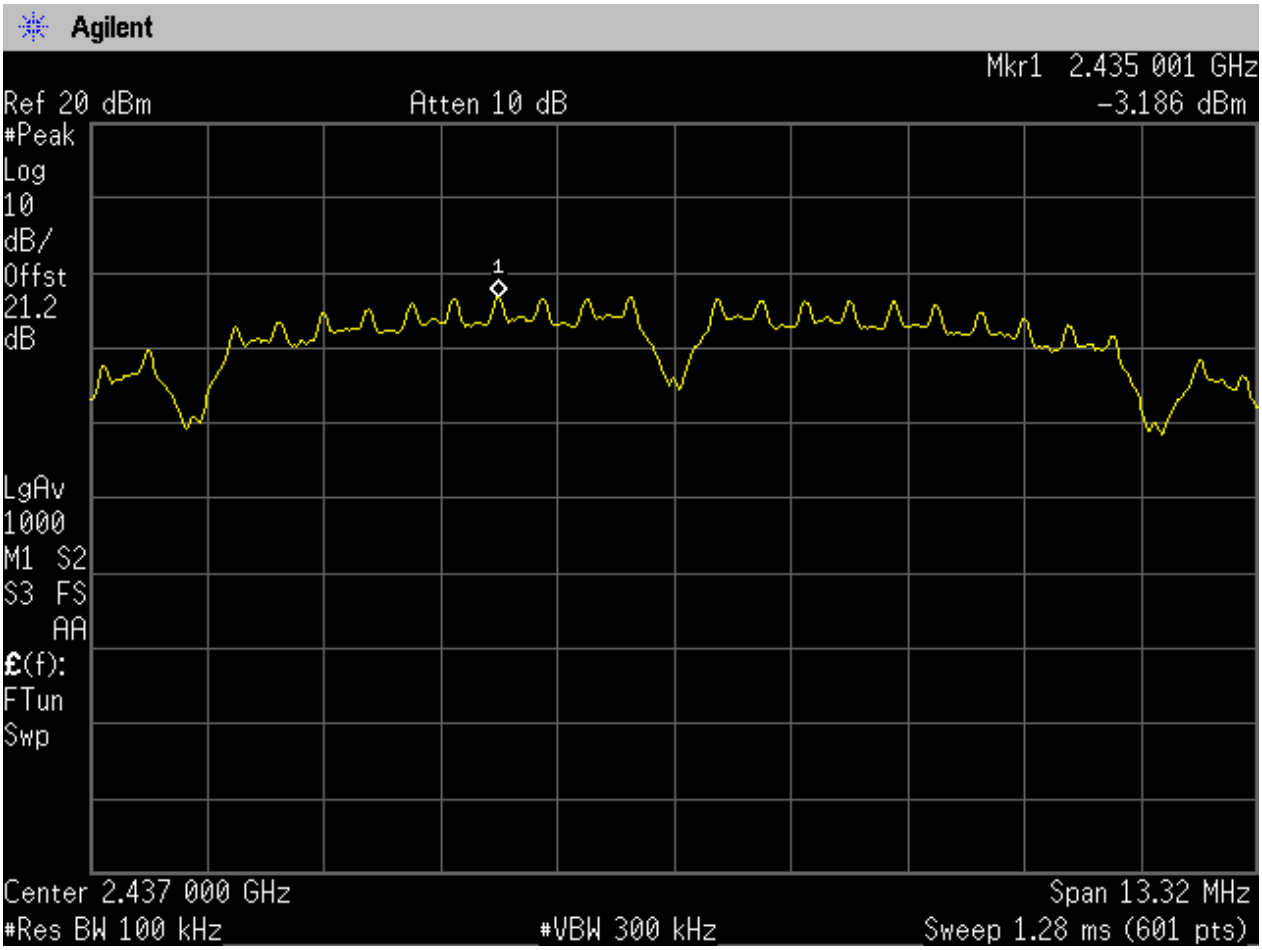

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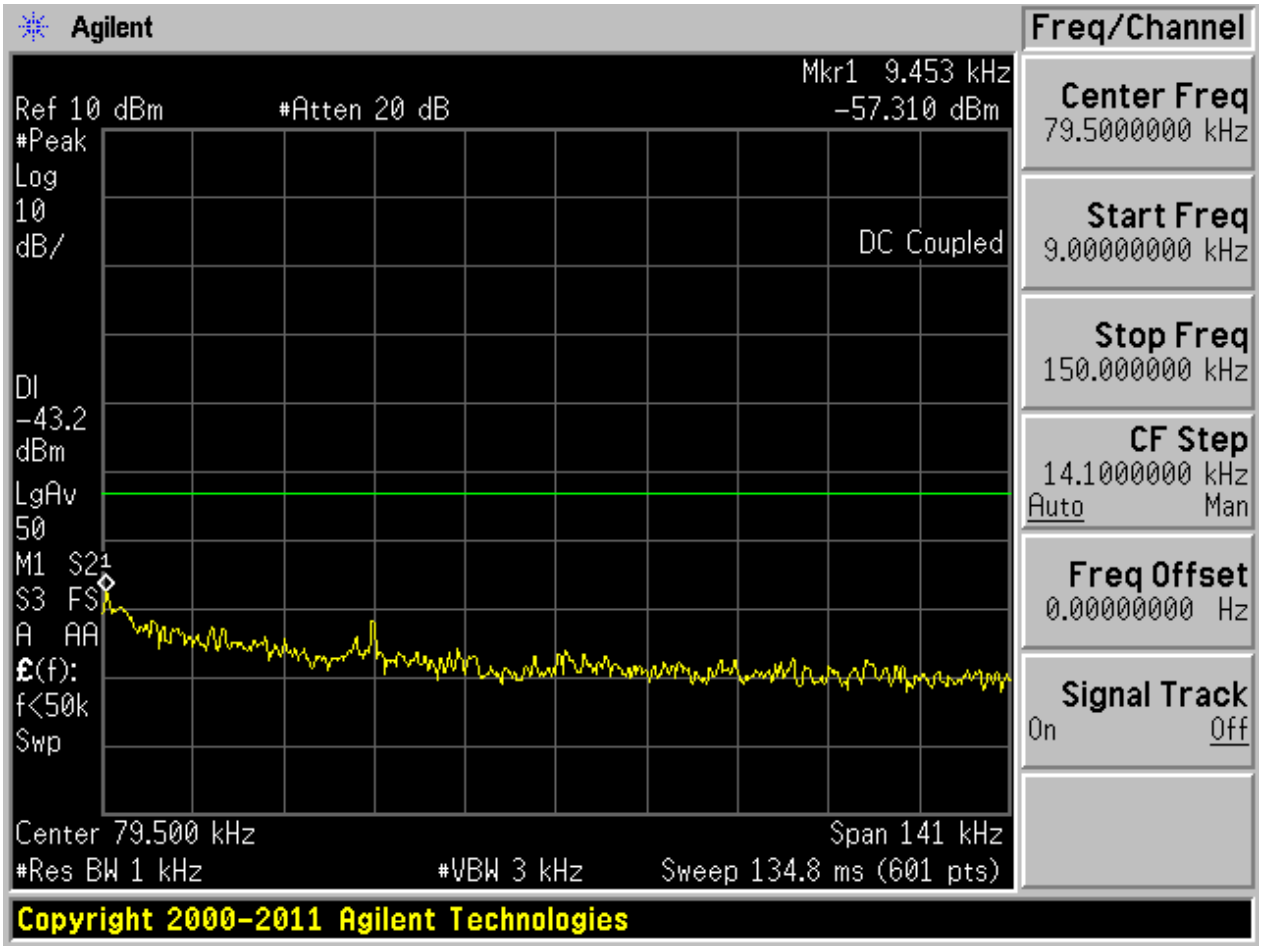

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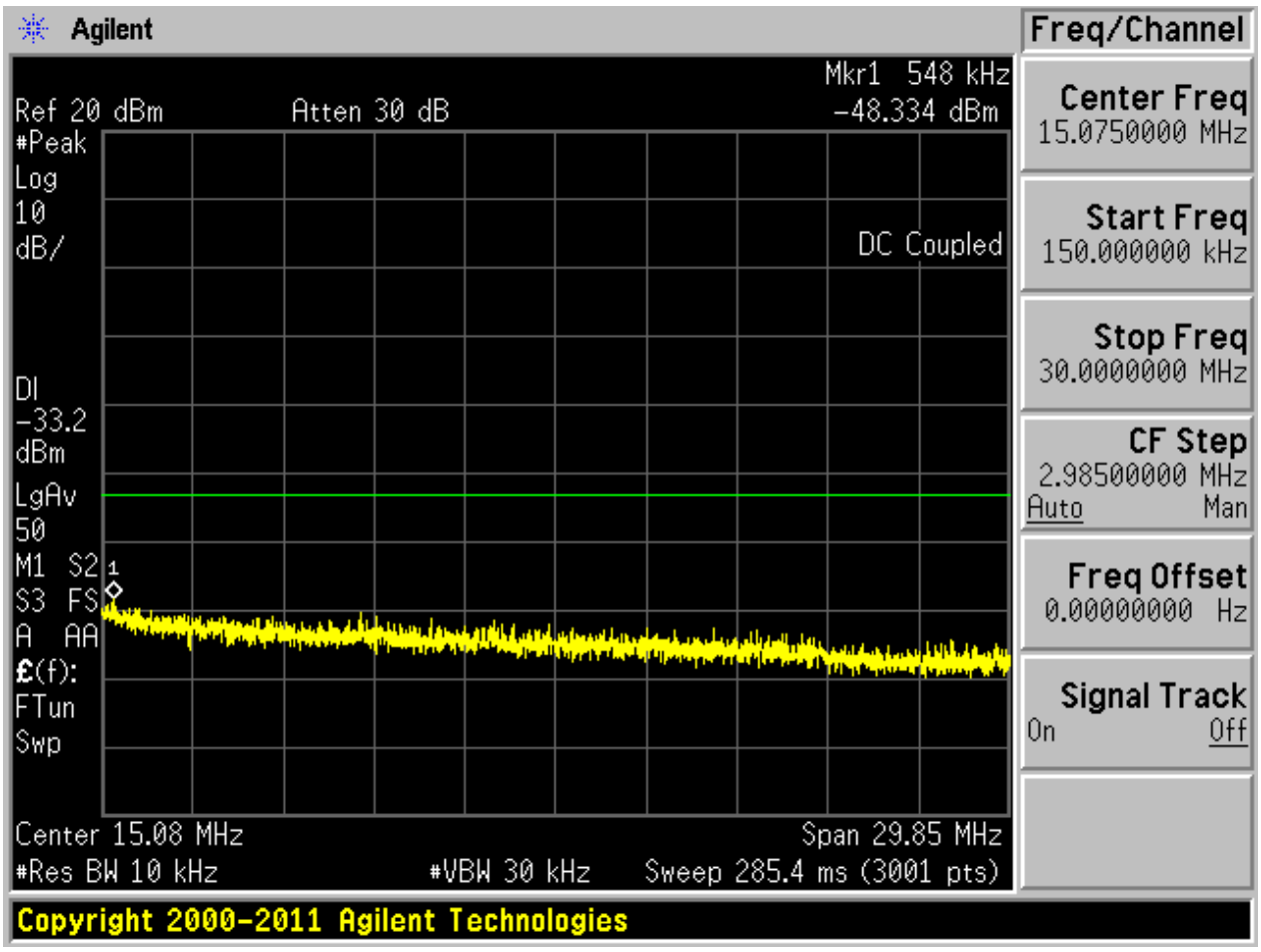

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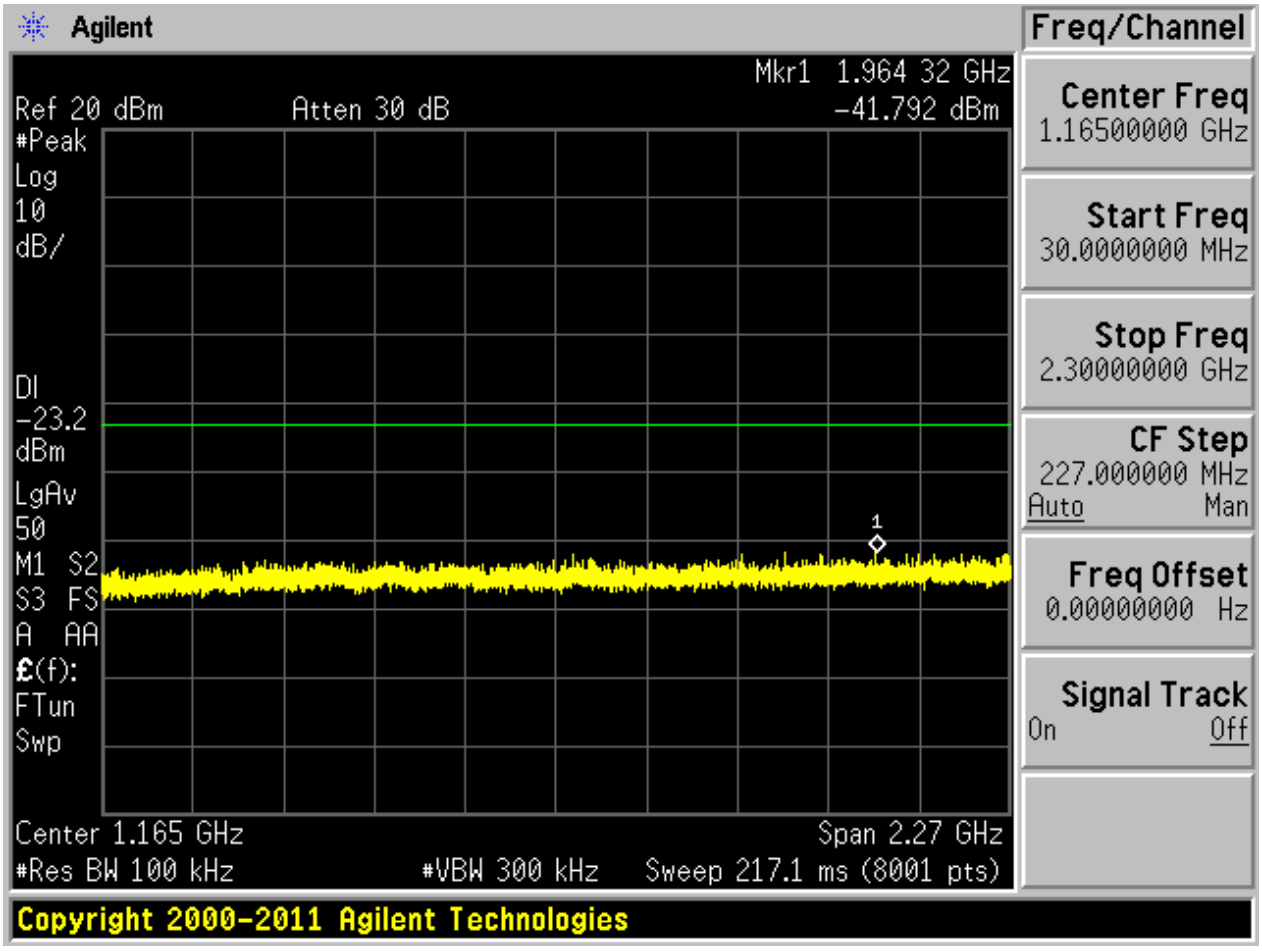

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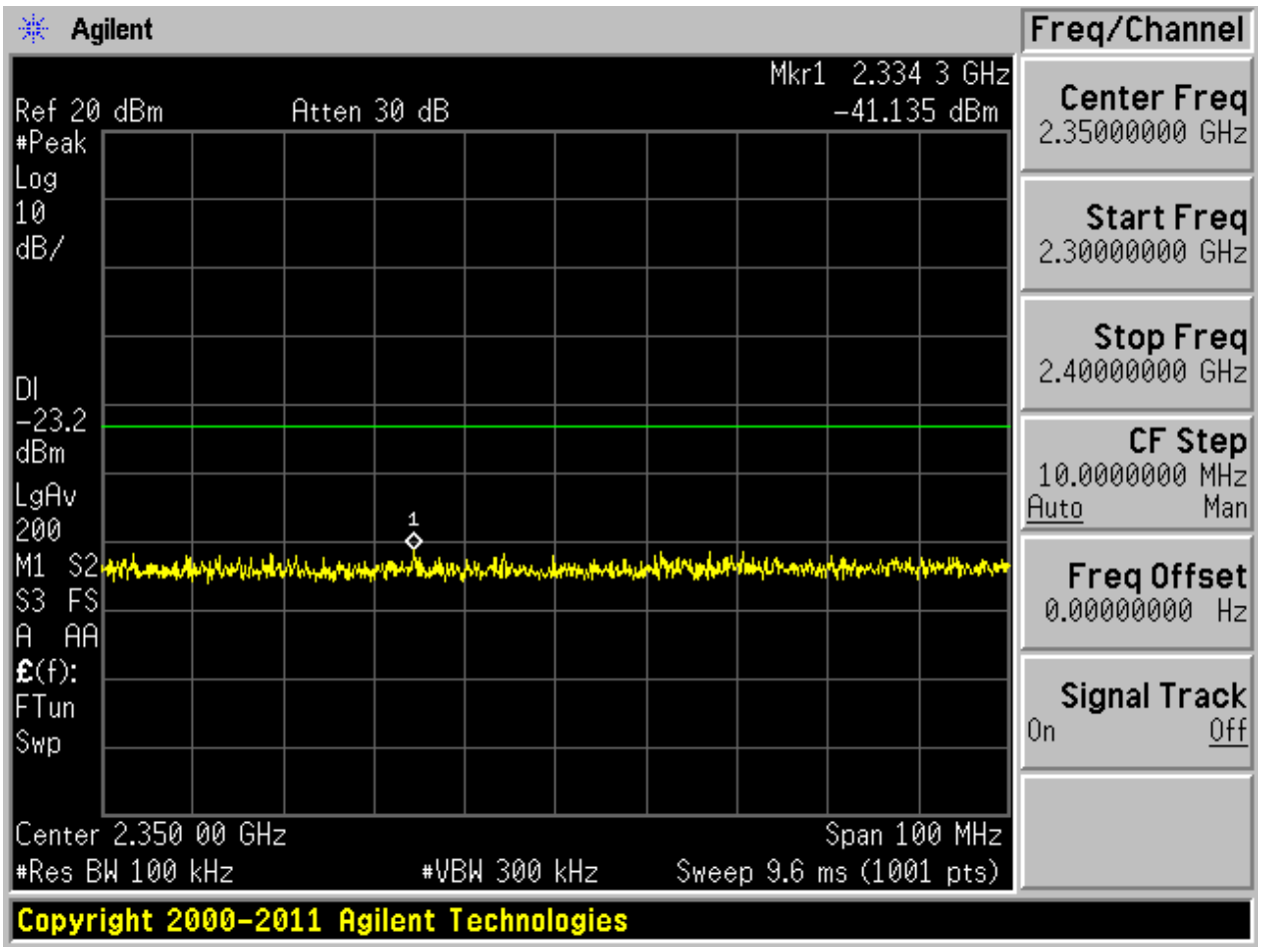

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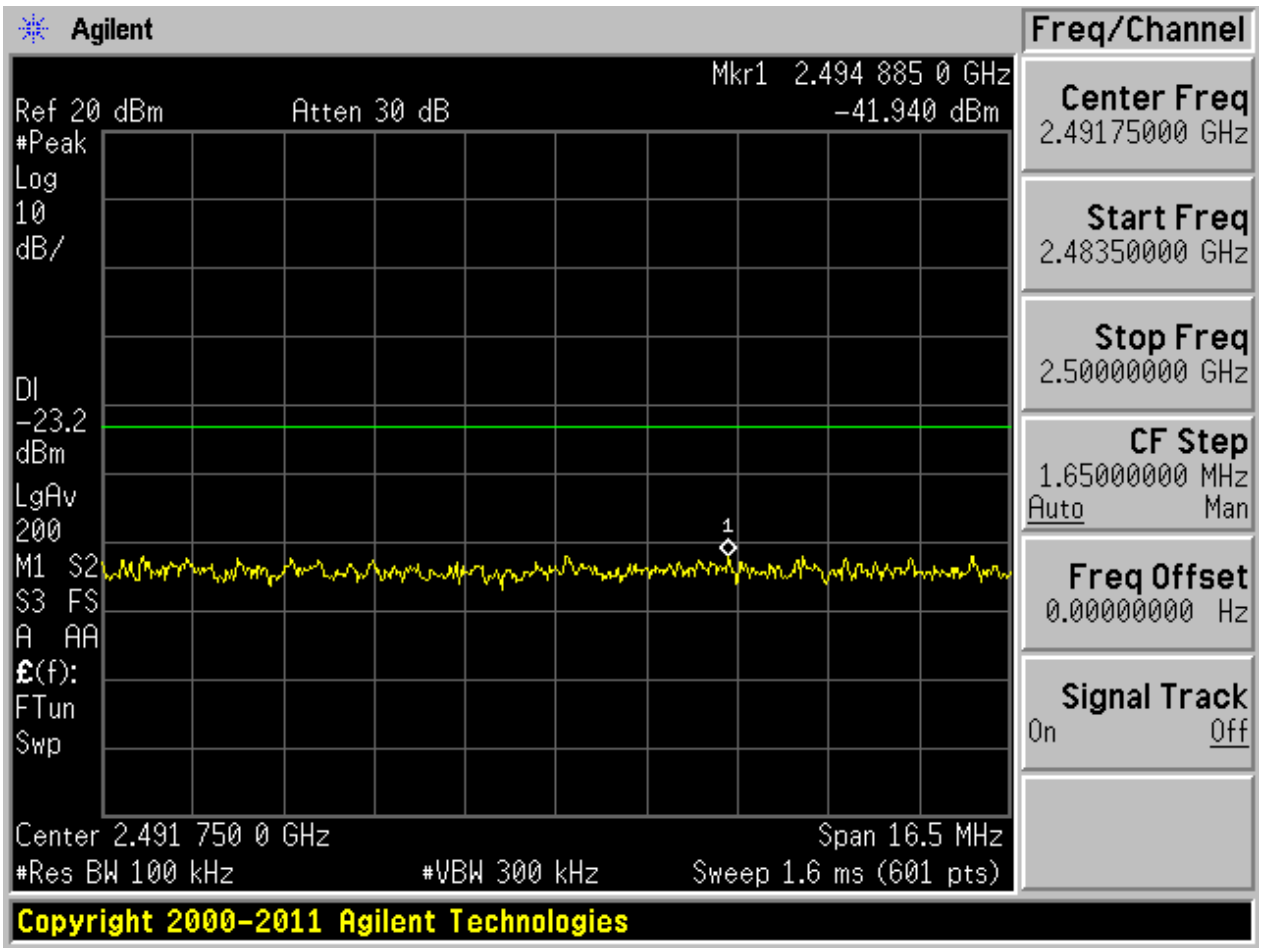

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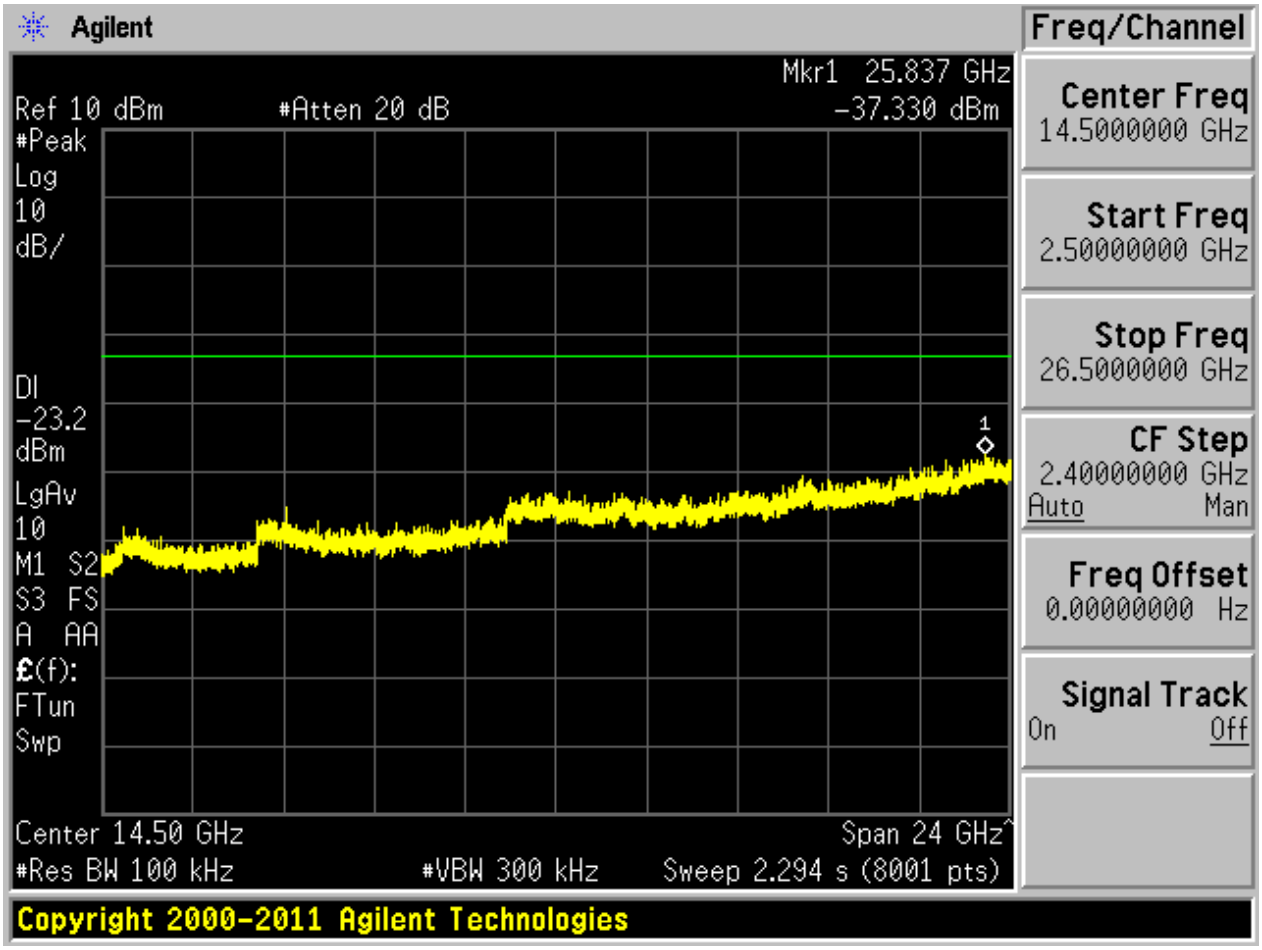

2.5.2 Ant 2

2.5.2.1 Pref

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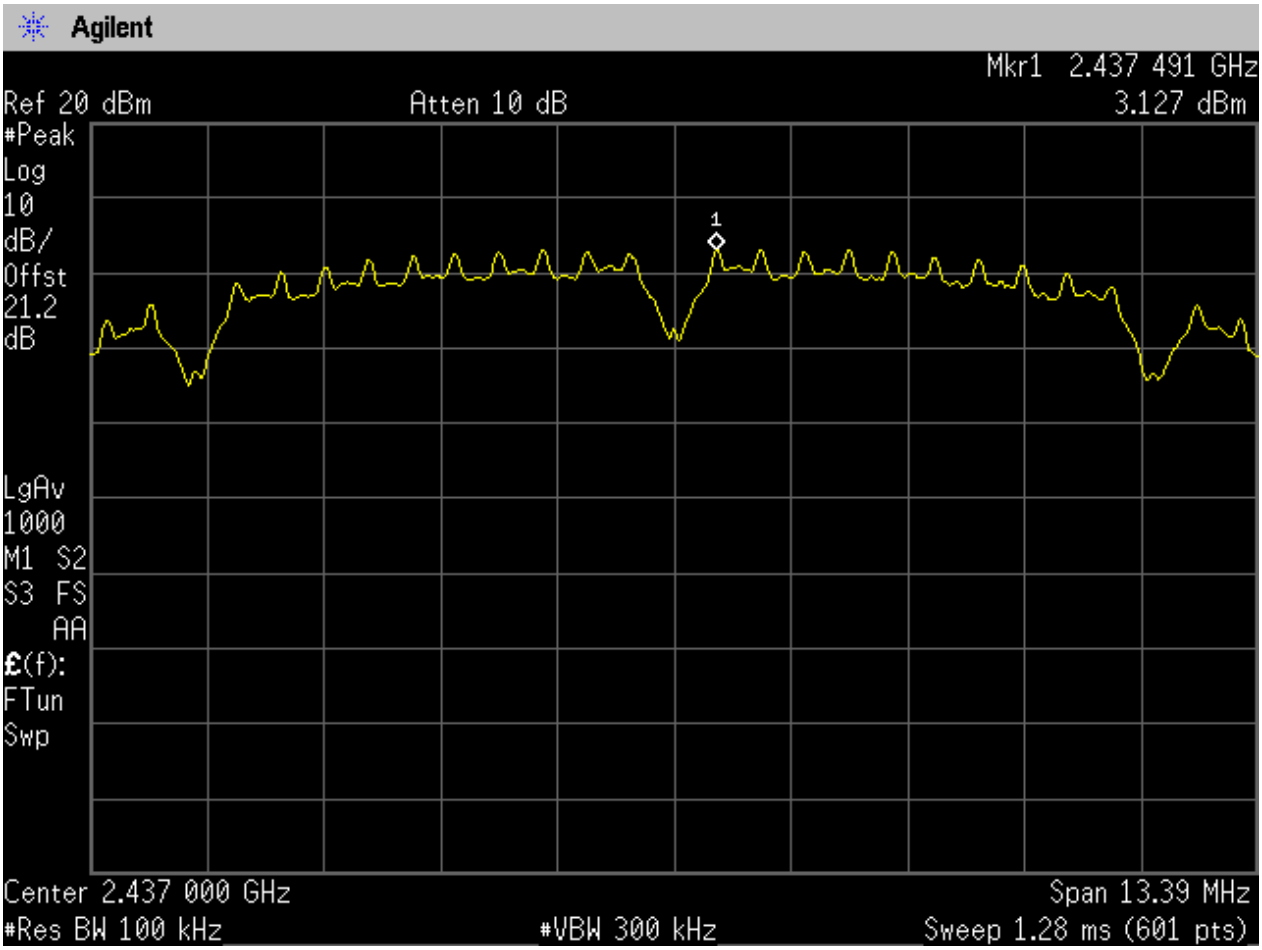

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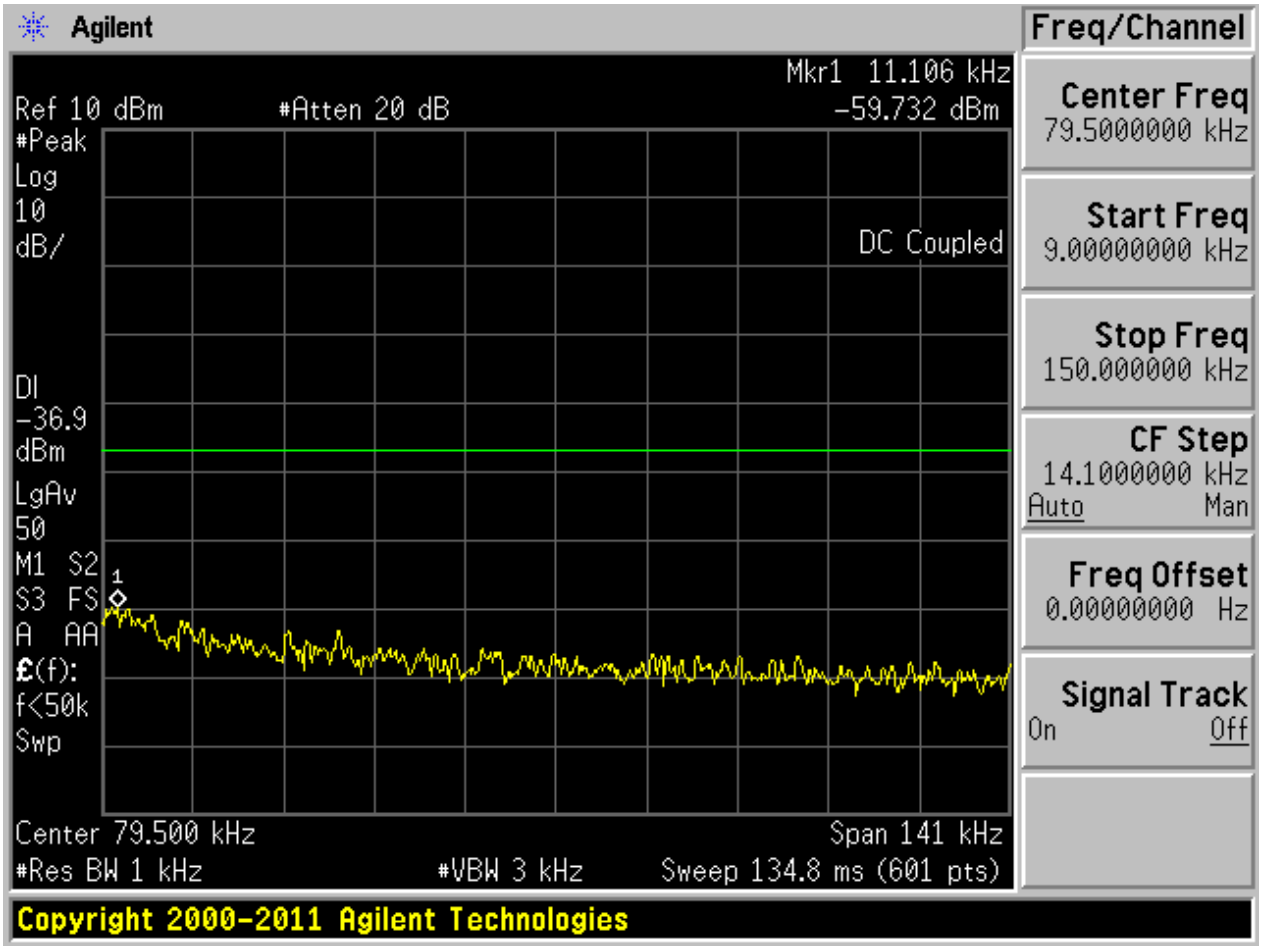

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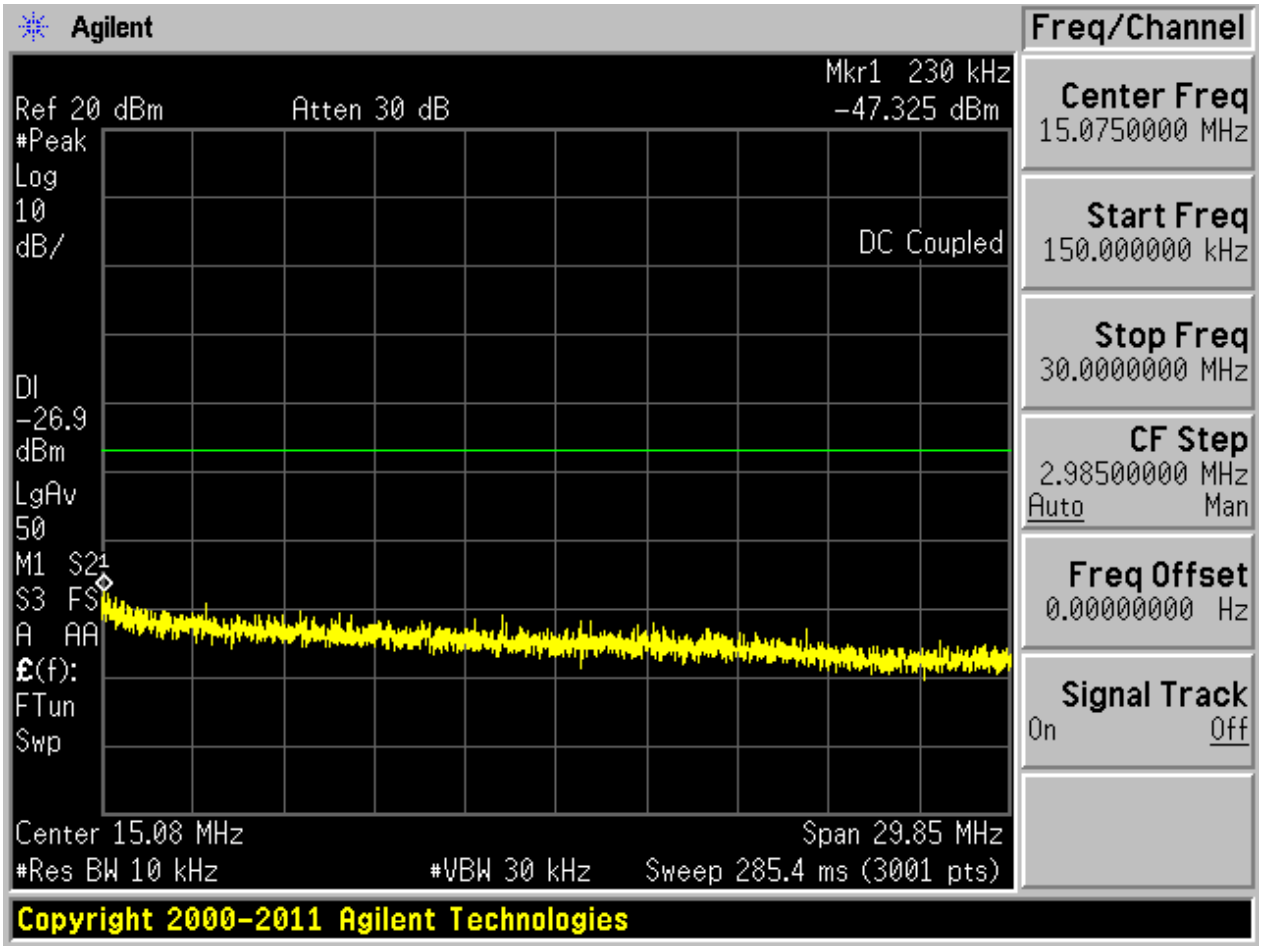

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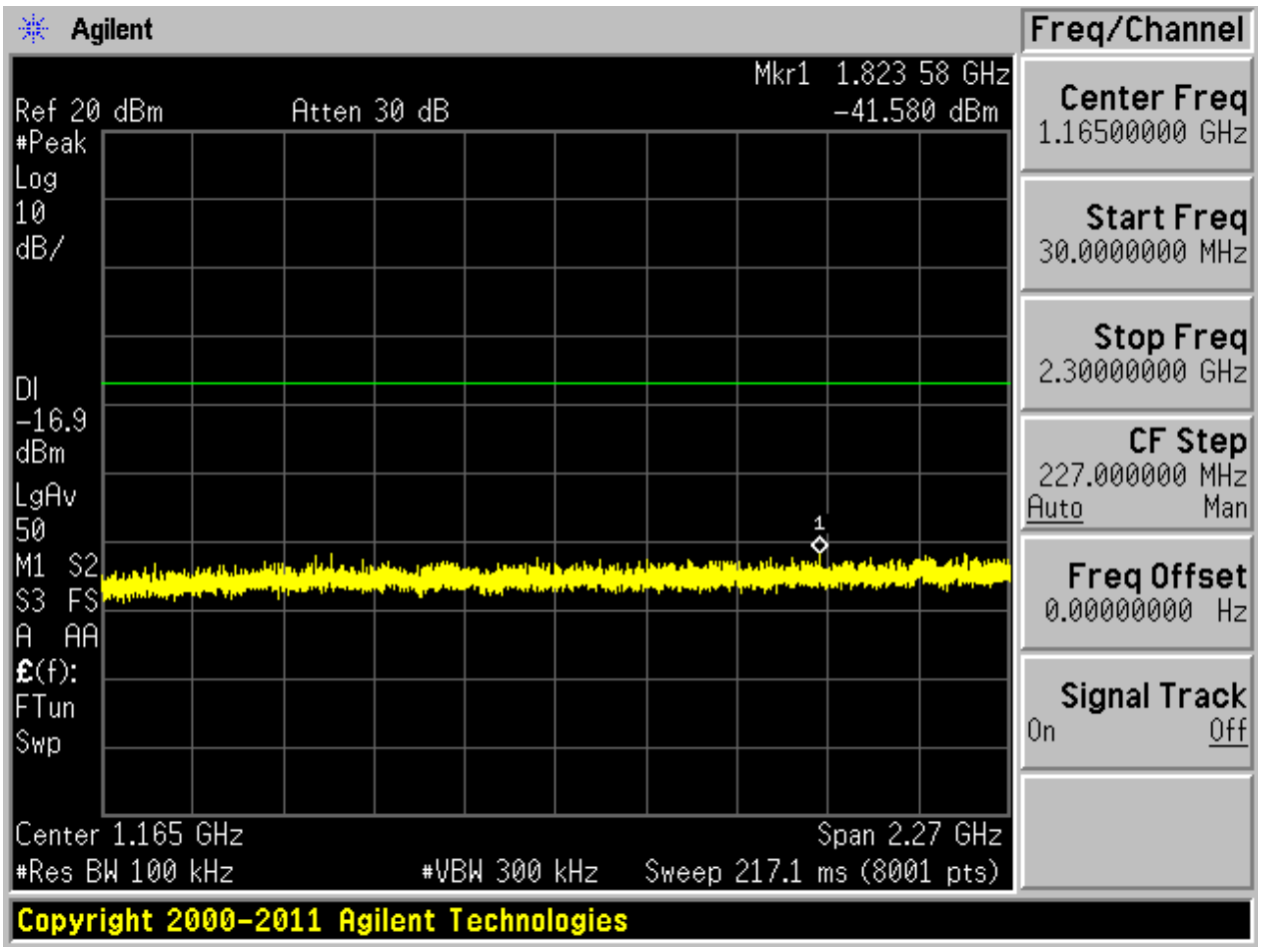

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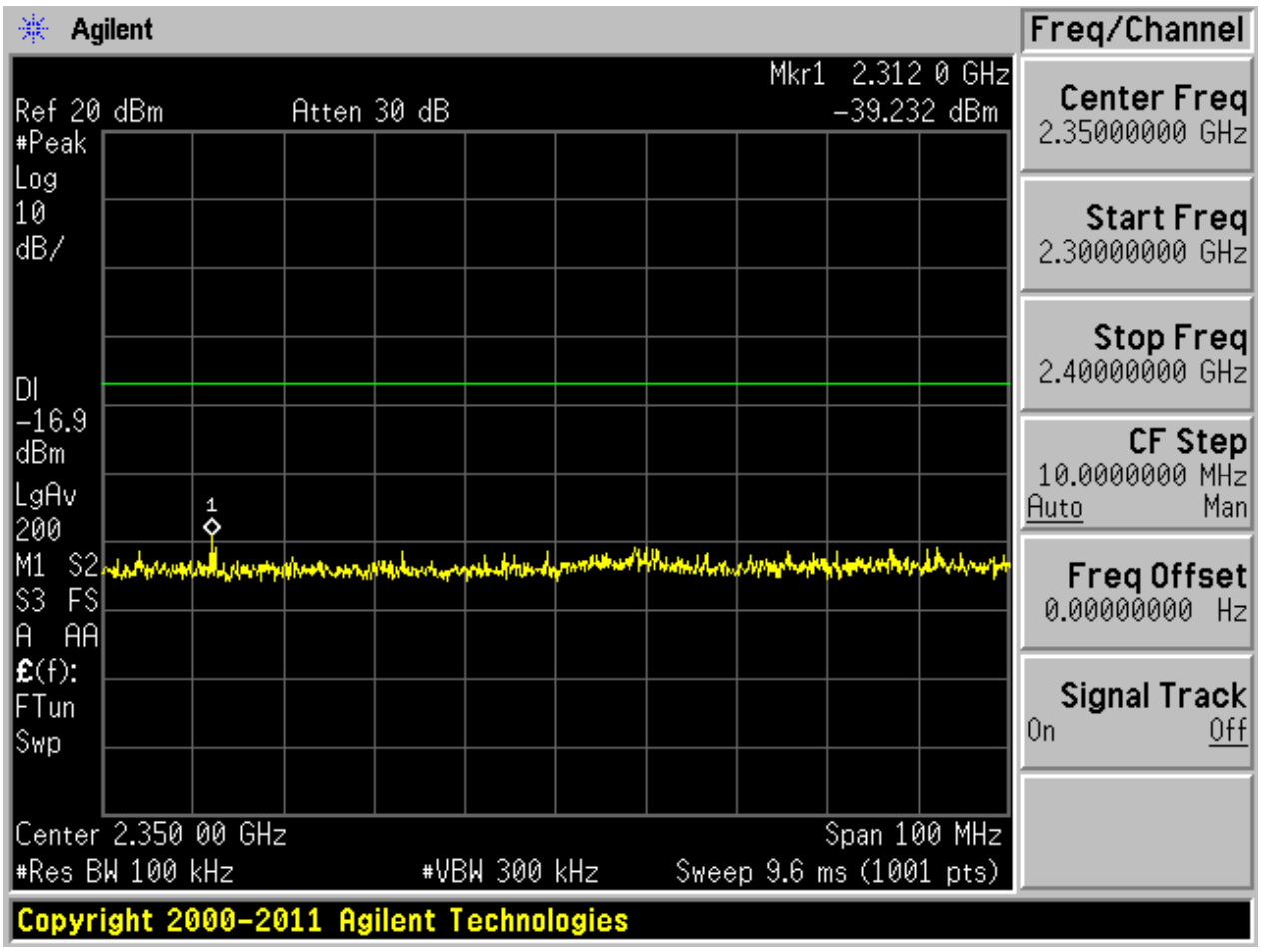

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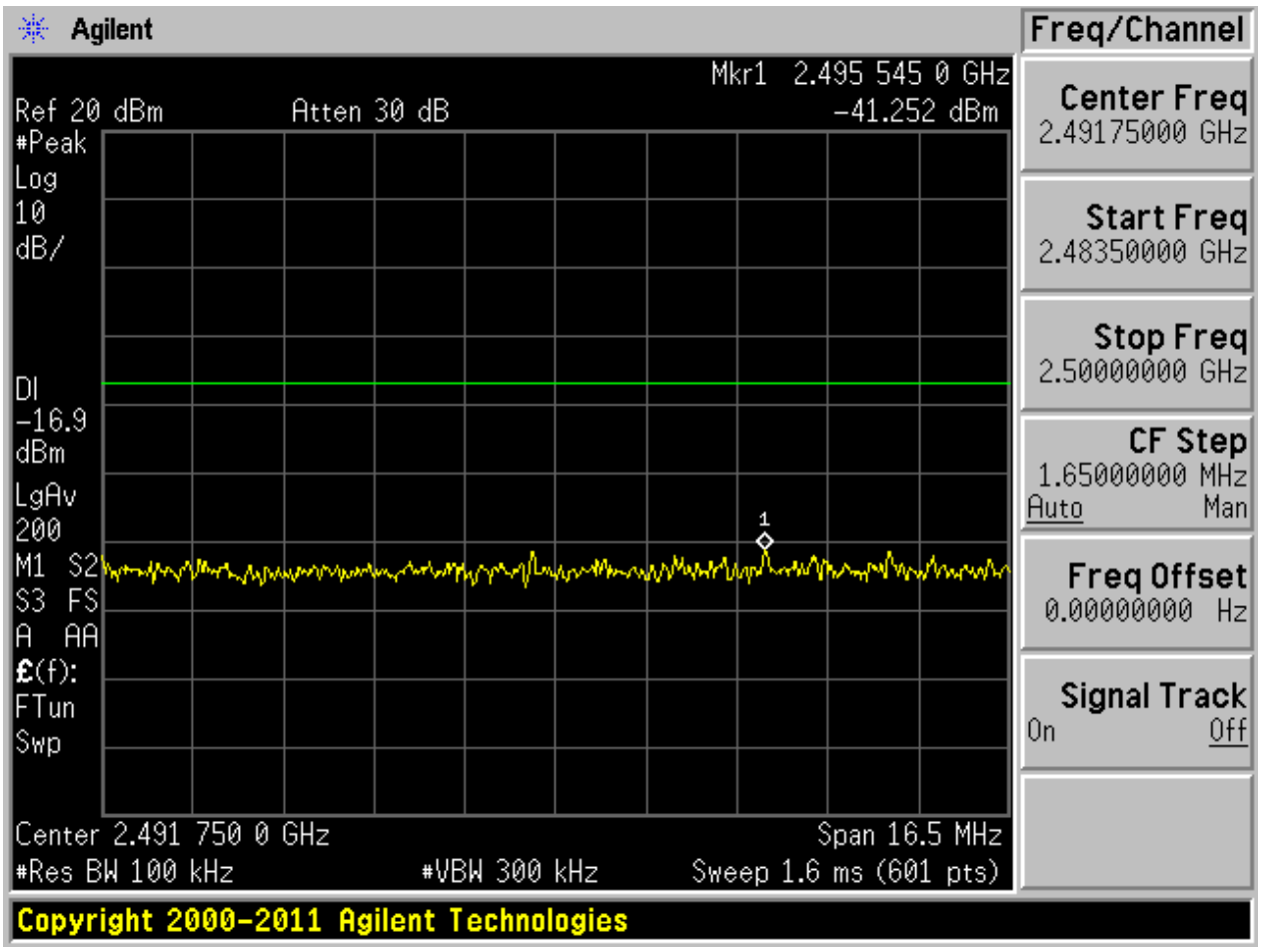

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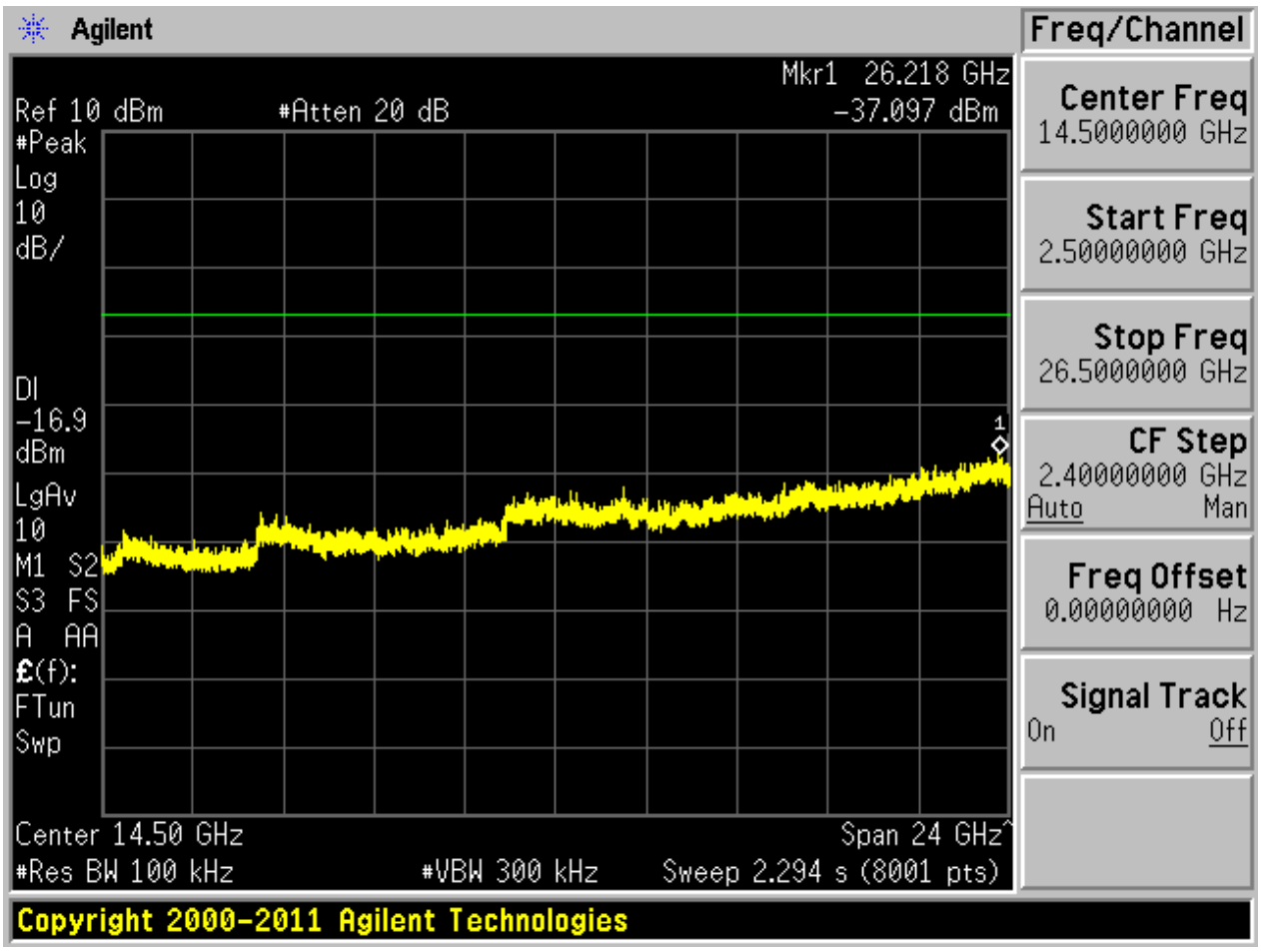

2.6 11Bd/1_T@1+2

2.6.1 Ant 1

2.6.1.1 Pref

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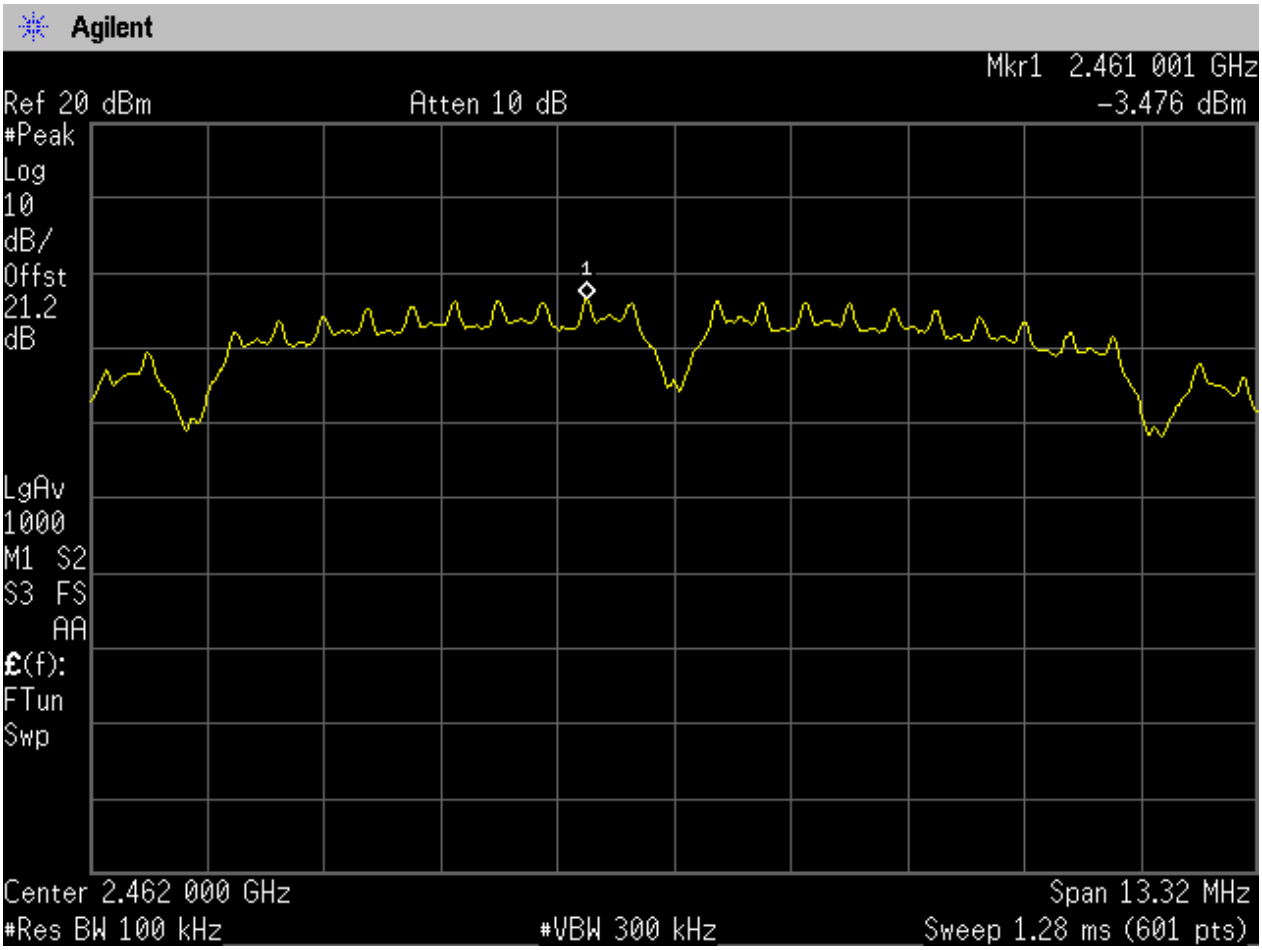

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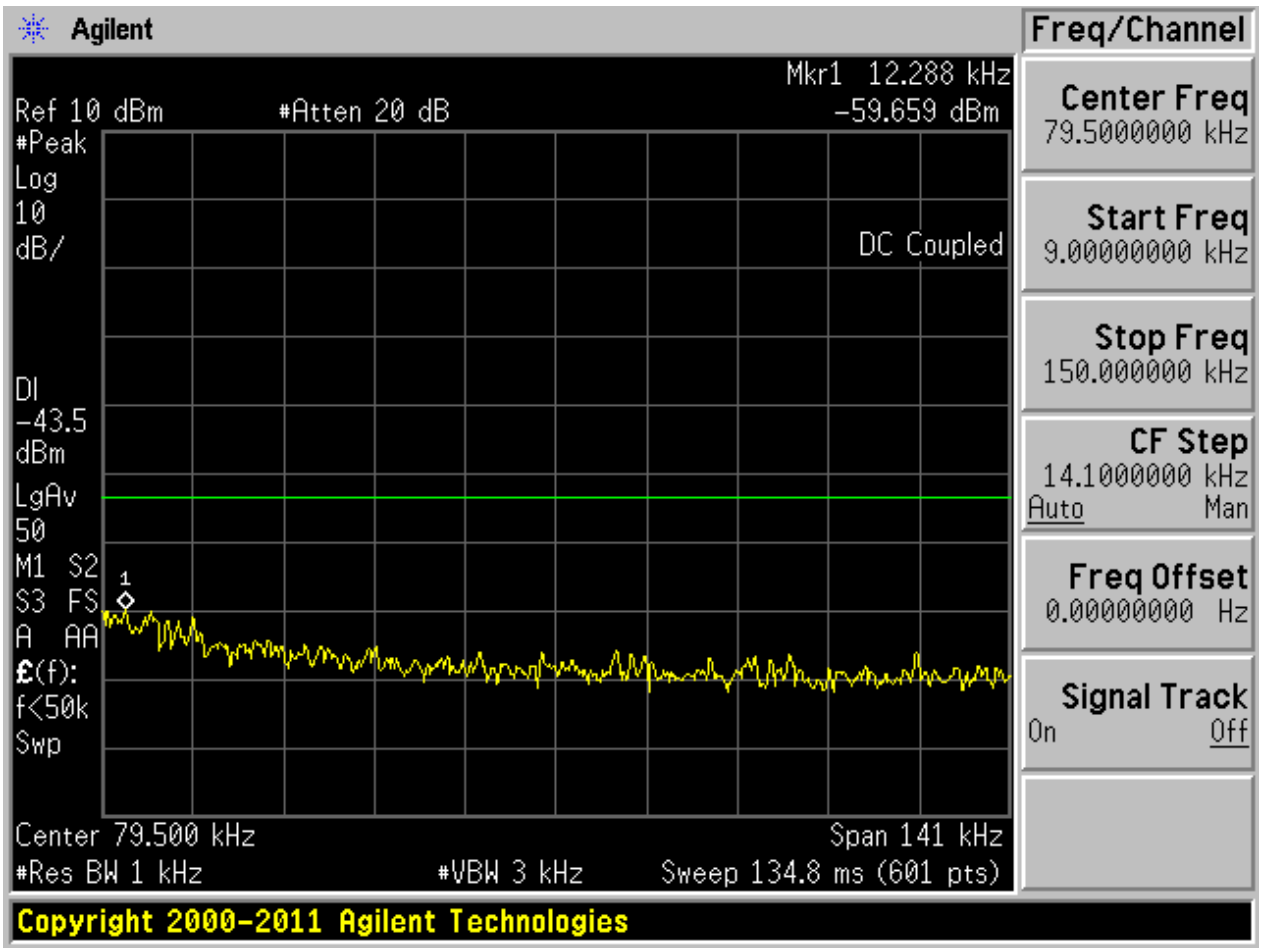

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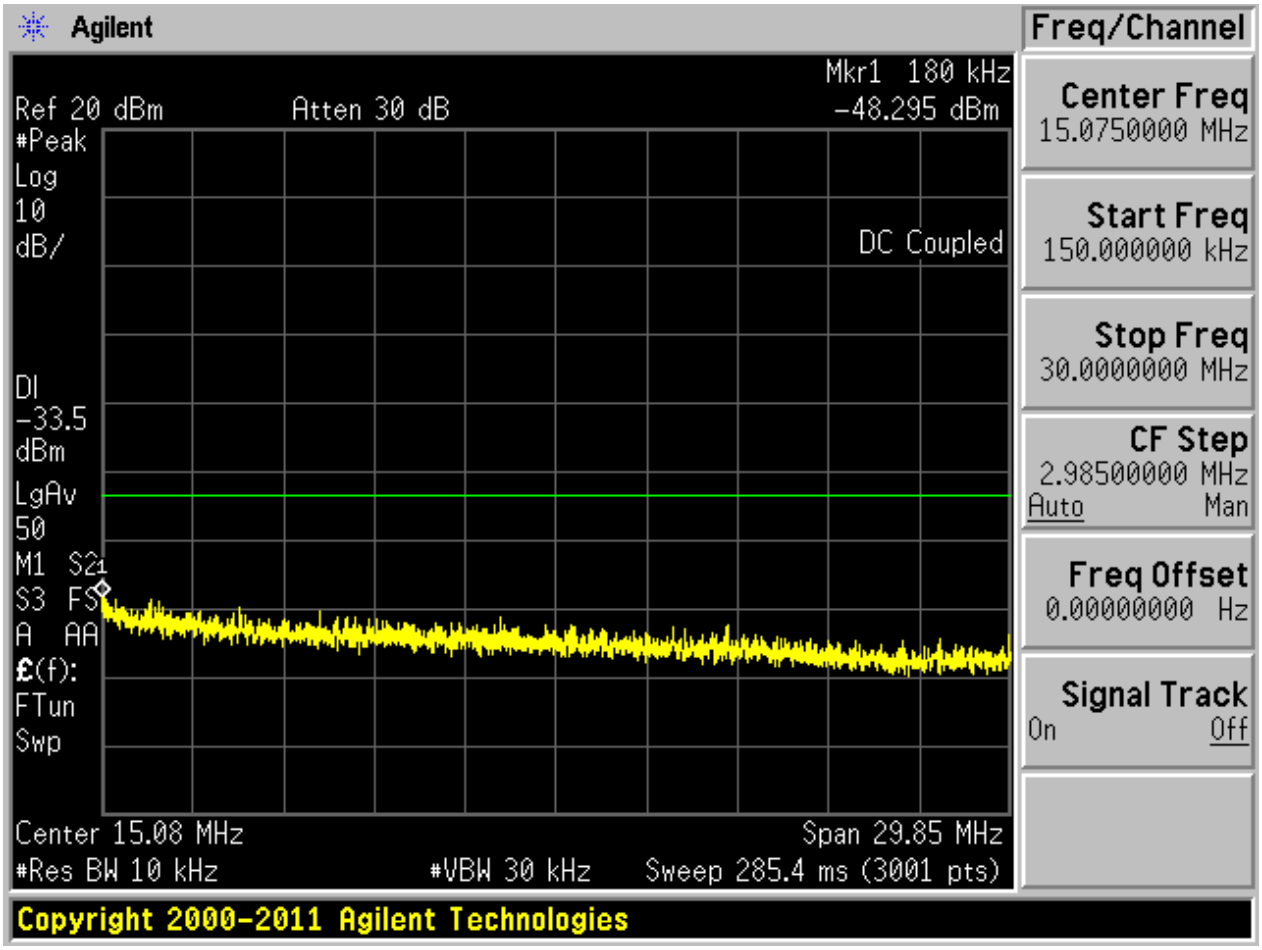

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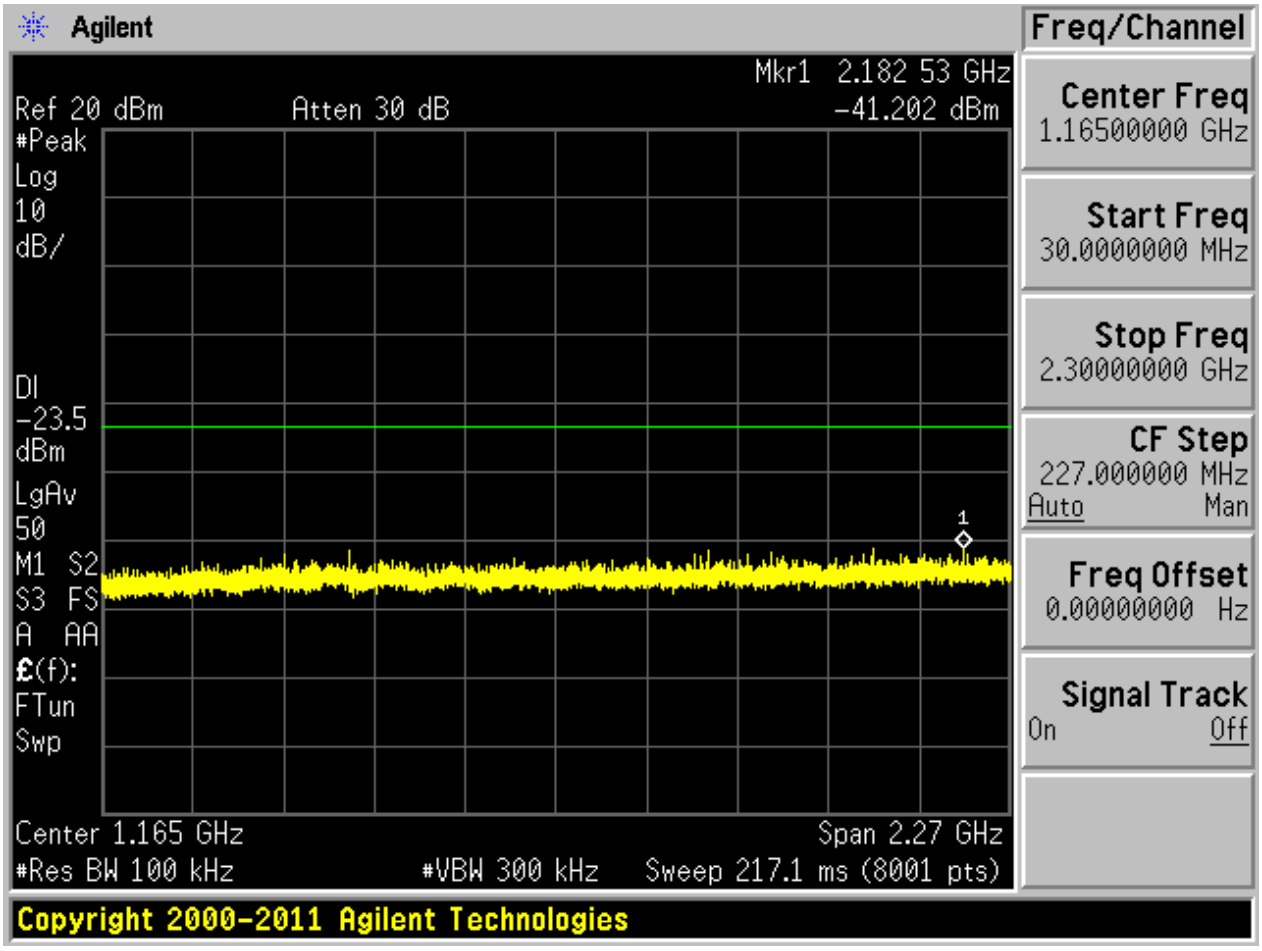

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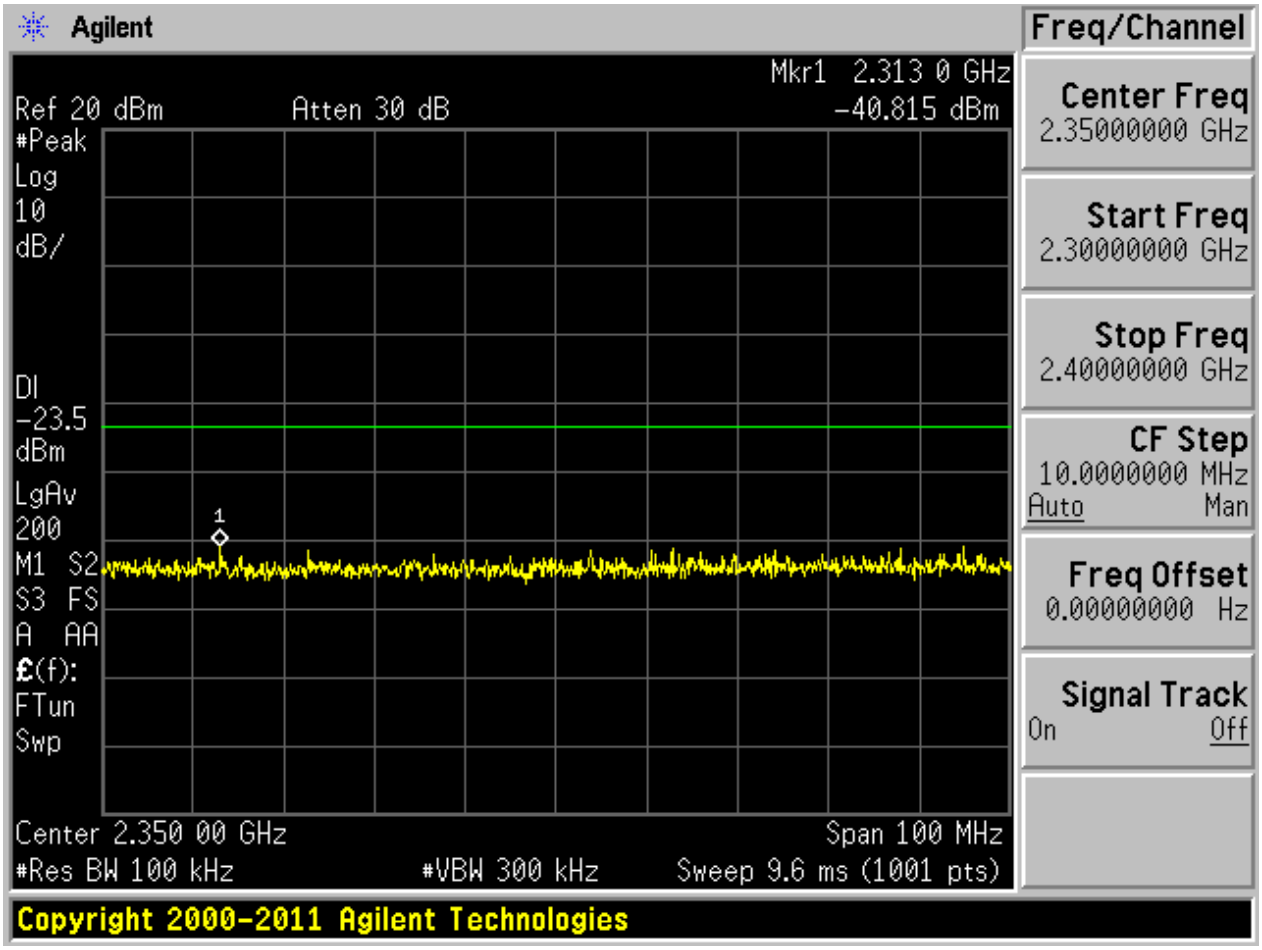

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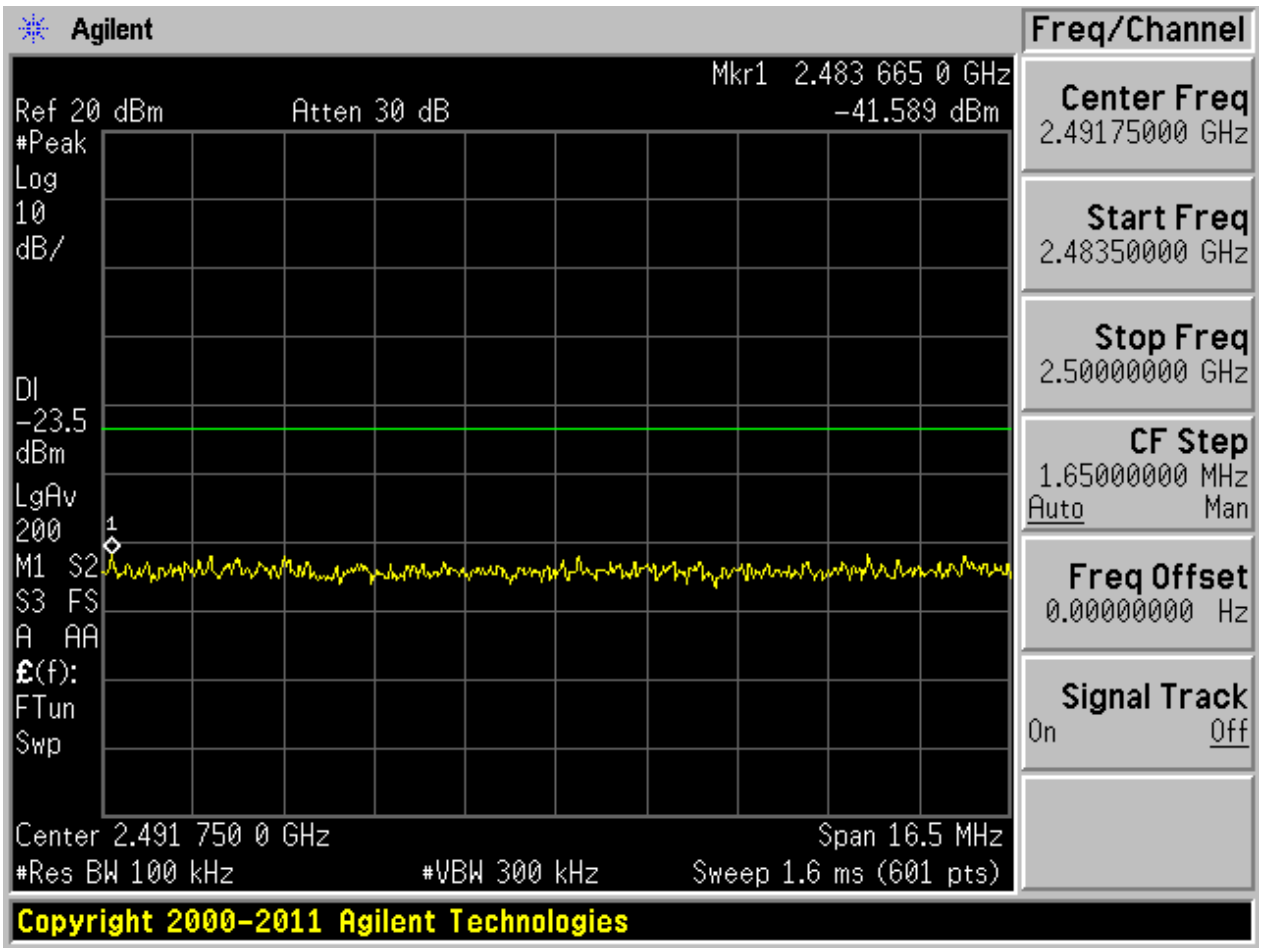

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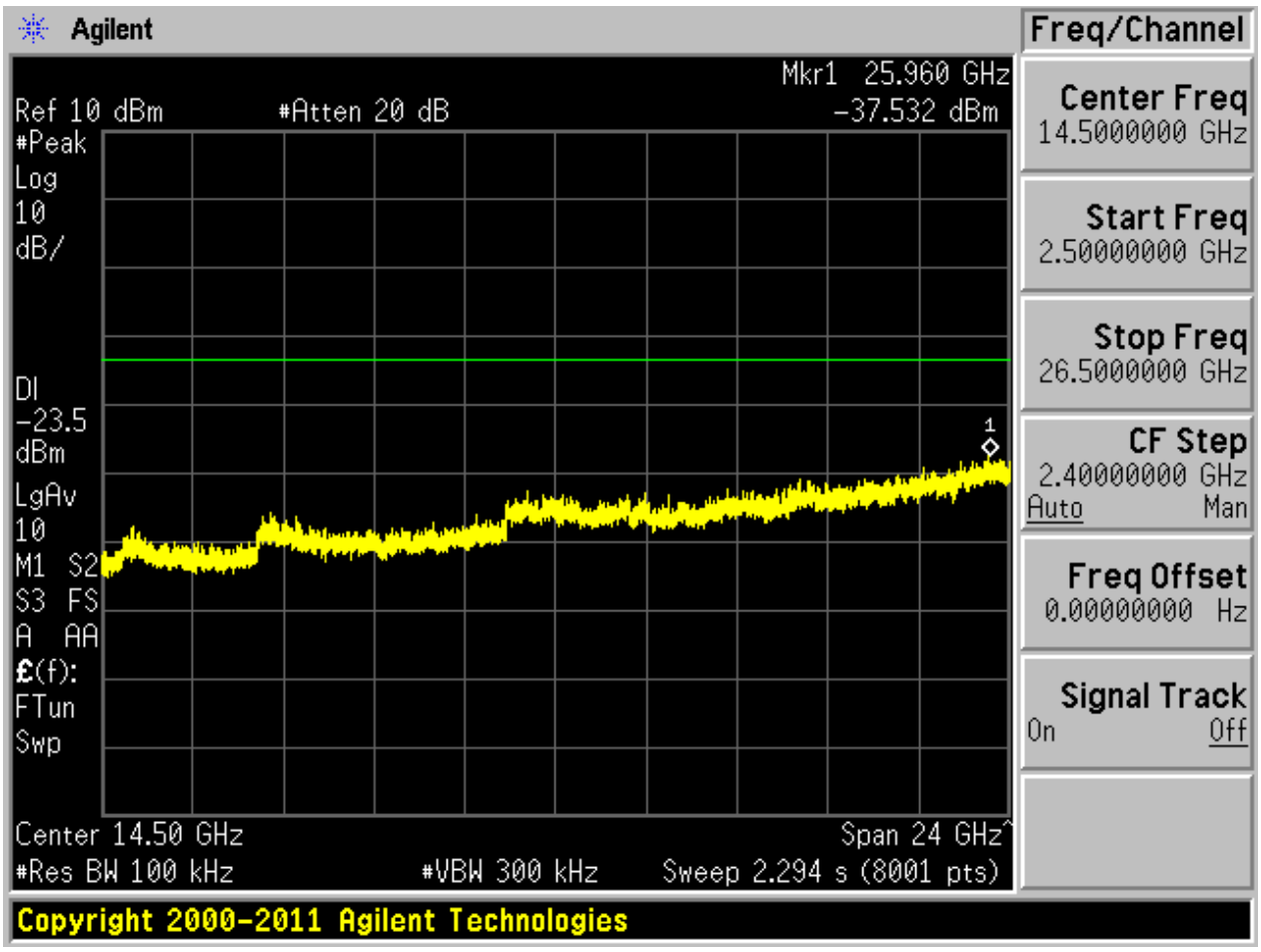

2.6.2 Ant 2

2.6.2.1 Pref

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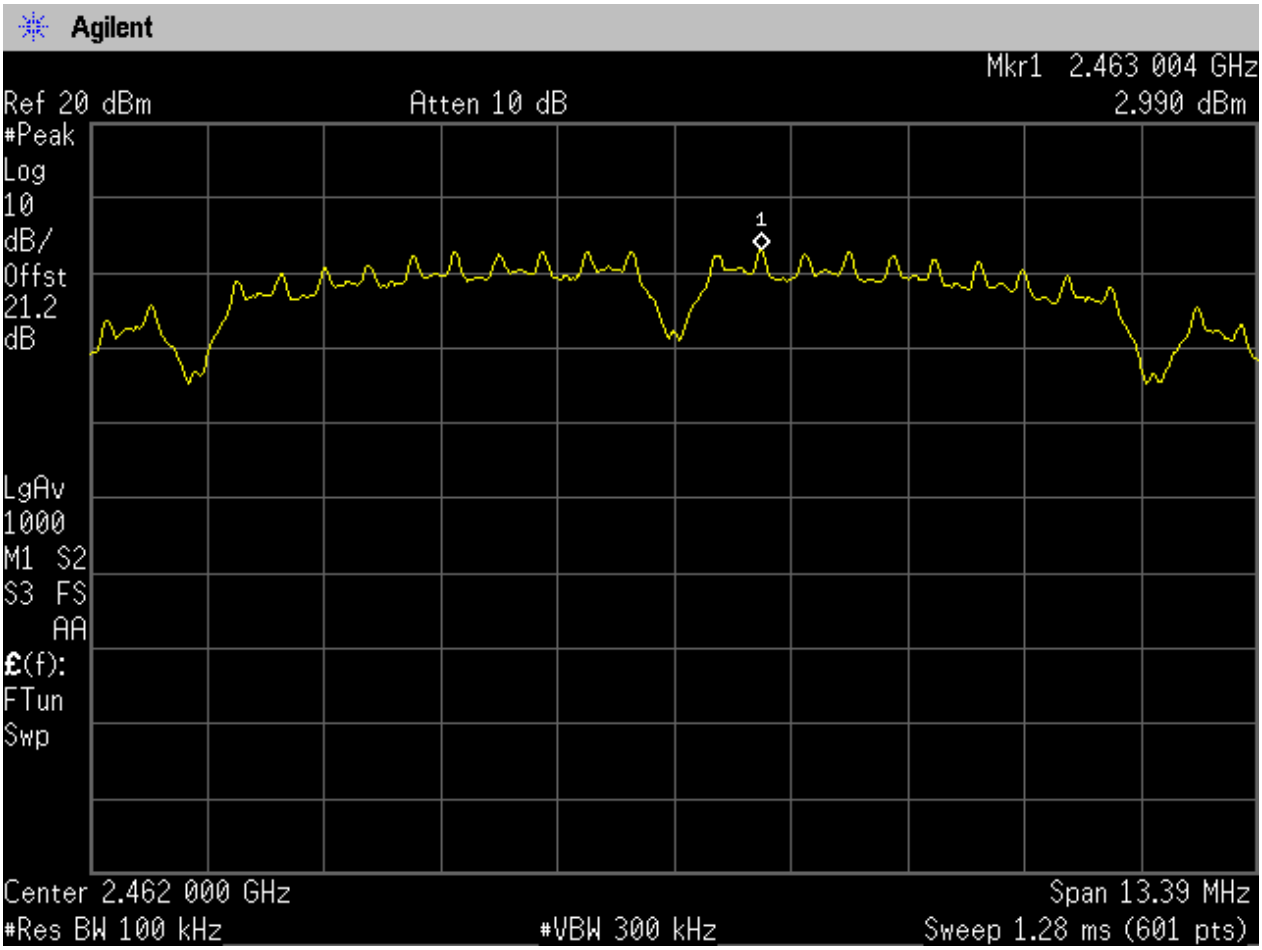

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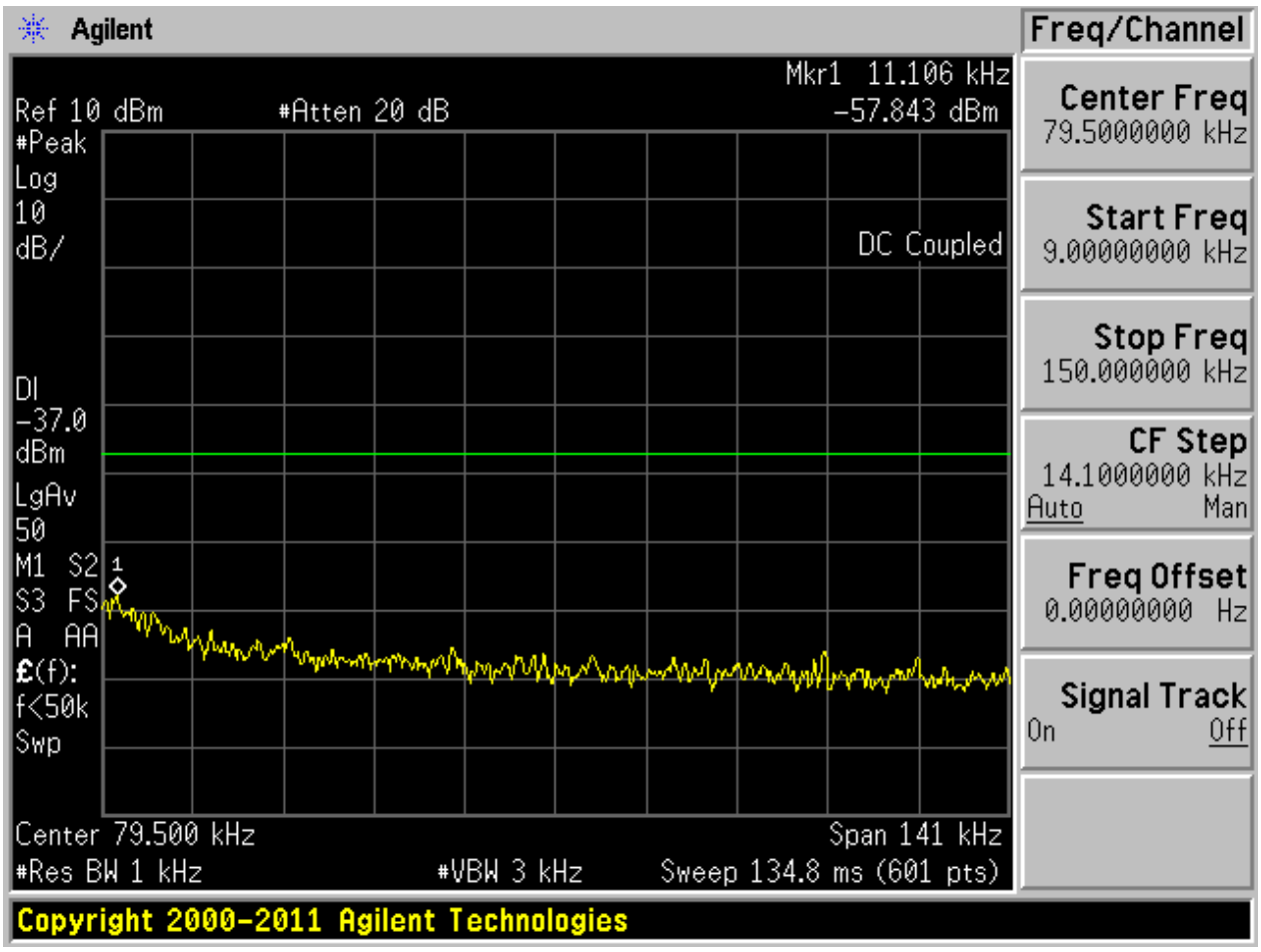

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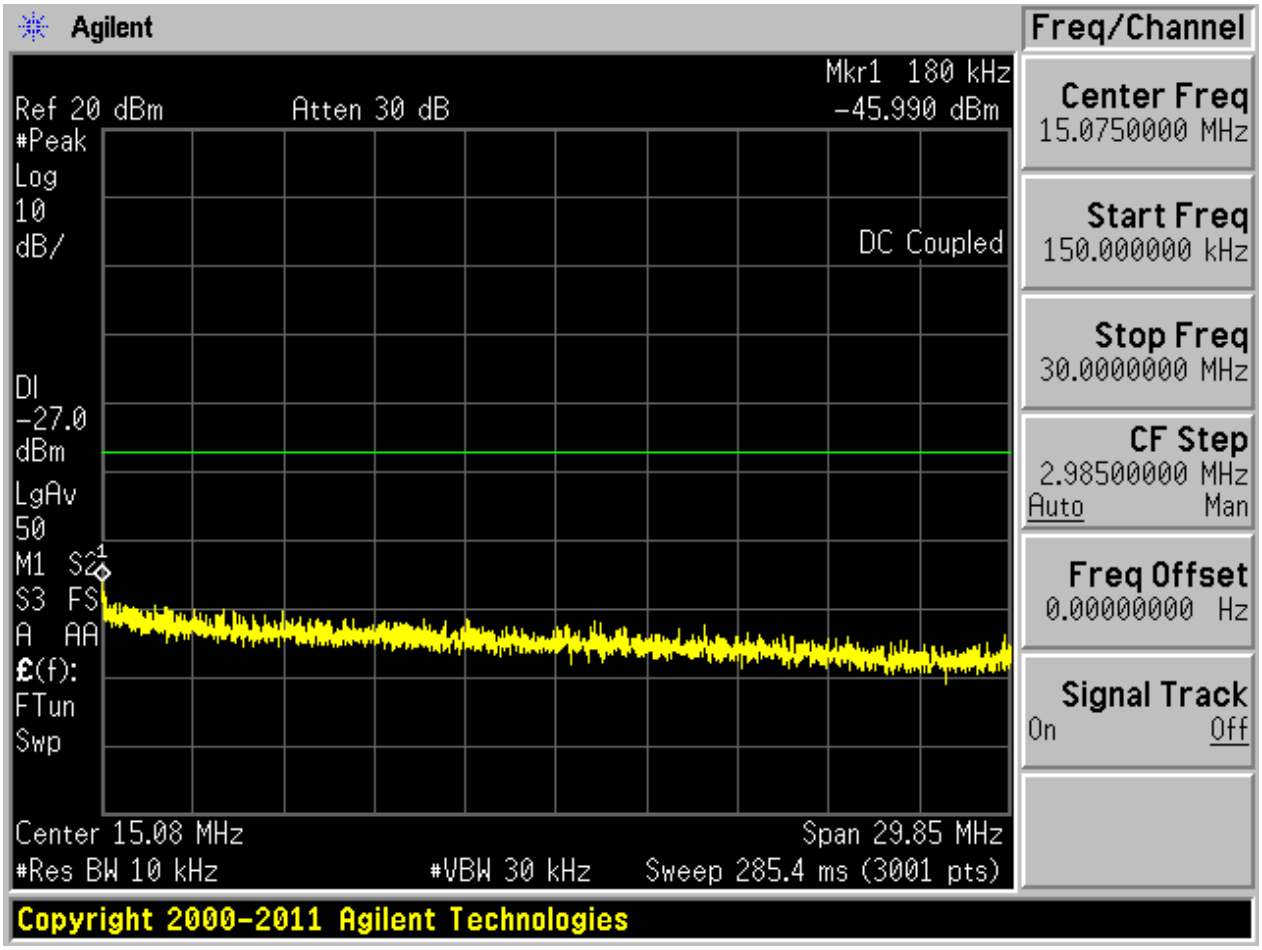

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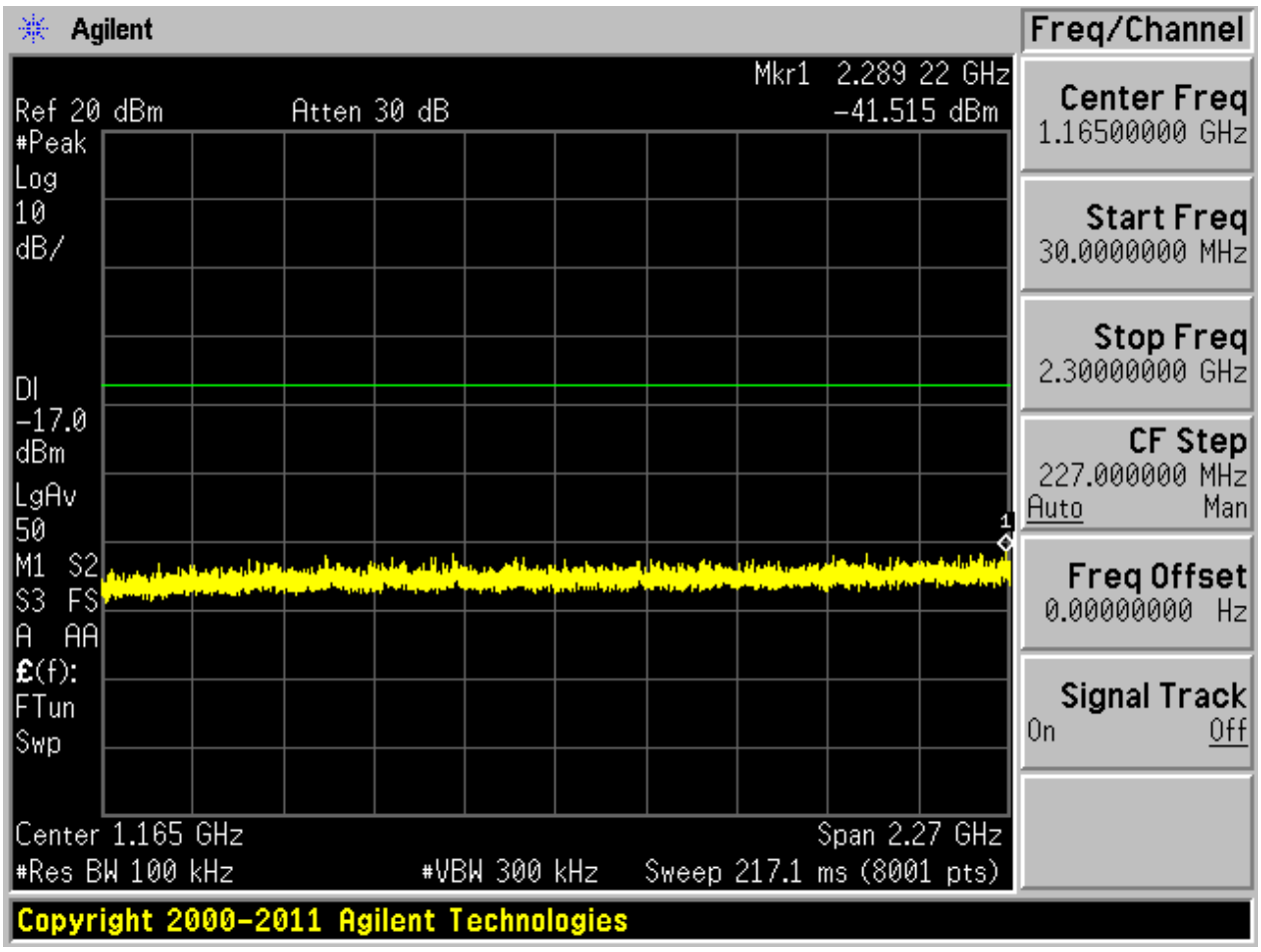

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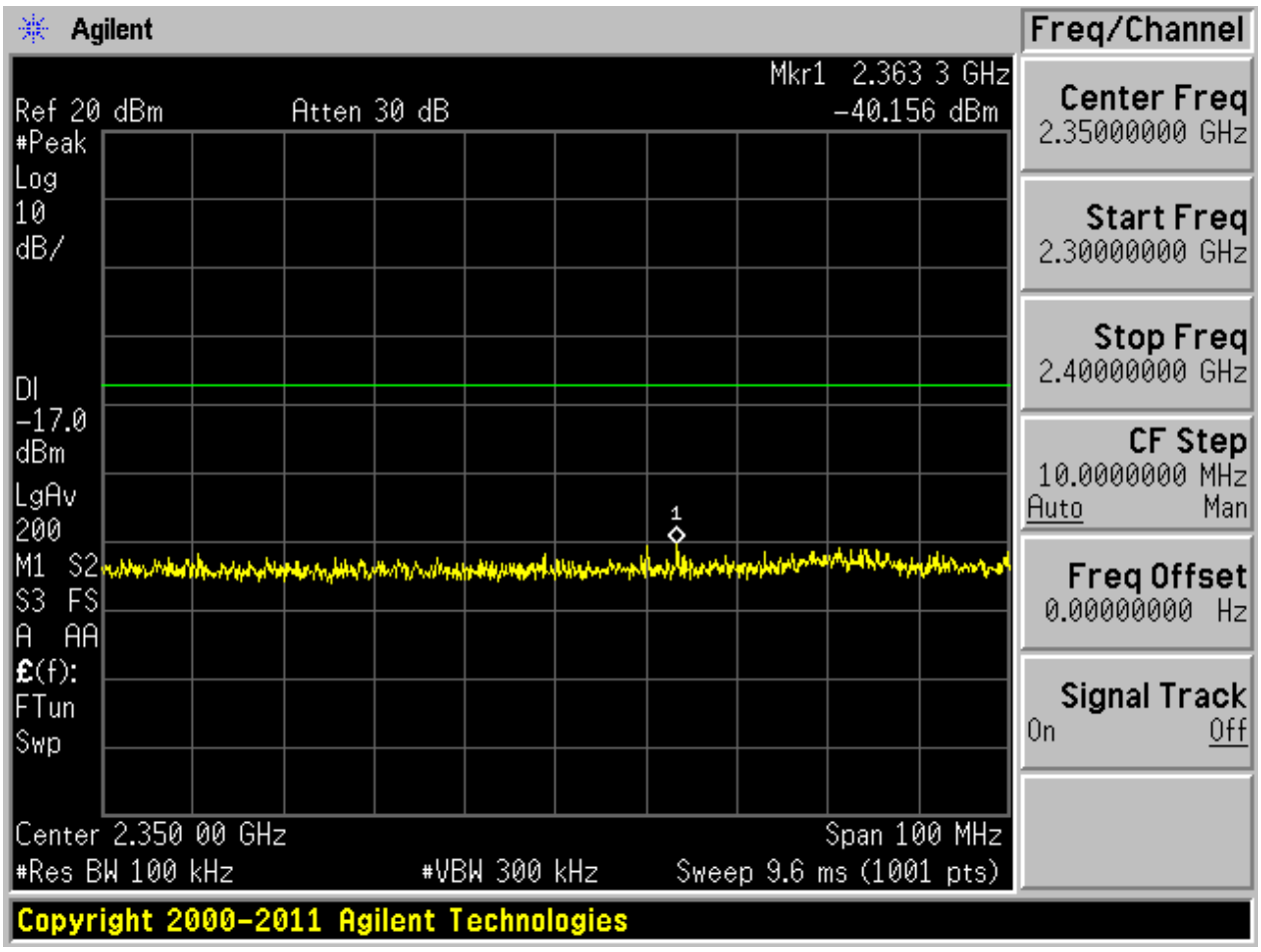

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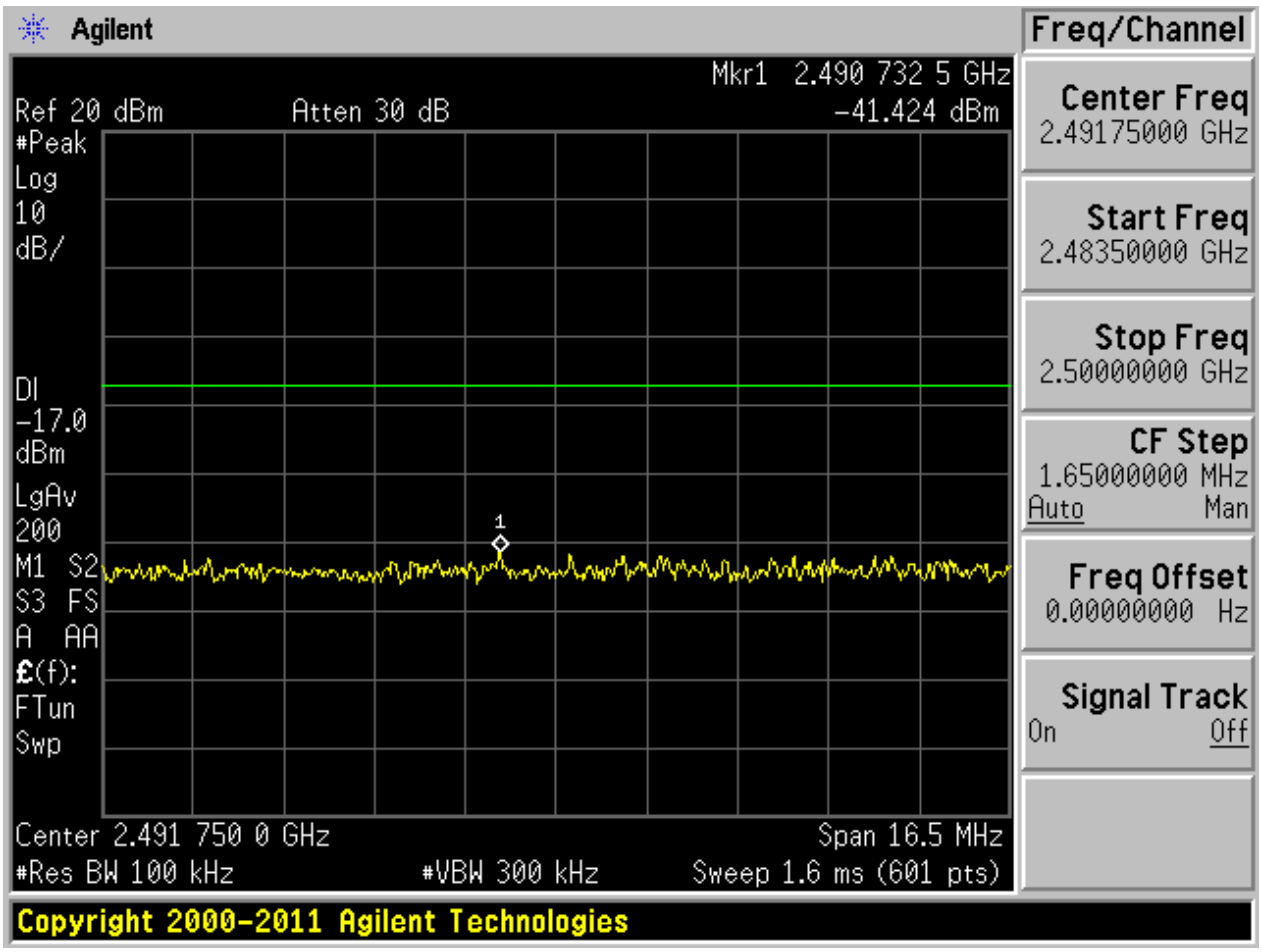

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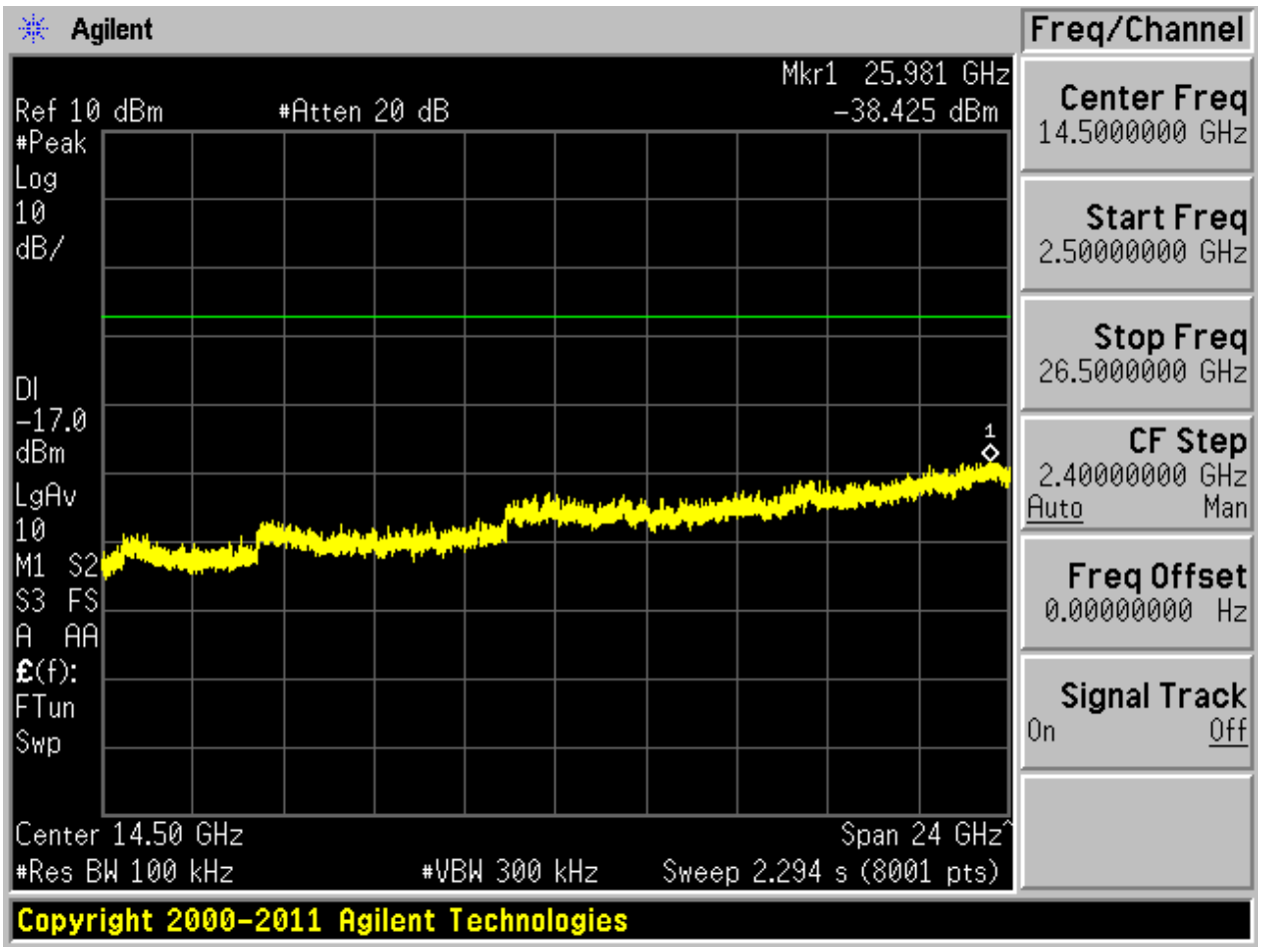

2.7 11G/6_B@1

2.7.1 Pref

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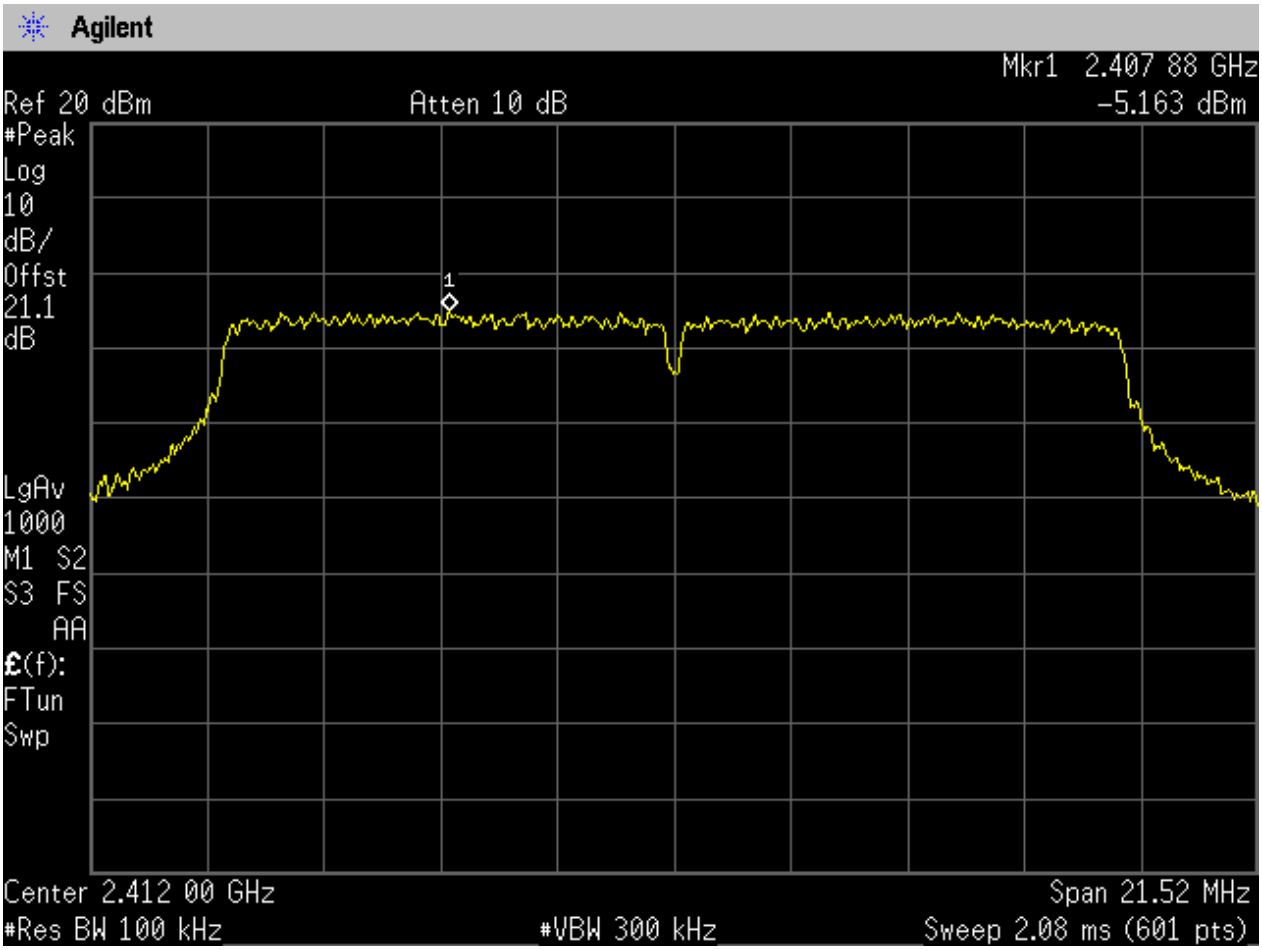

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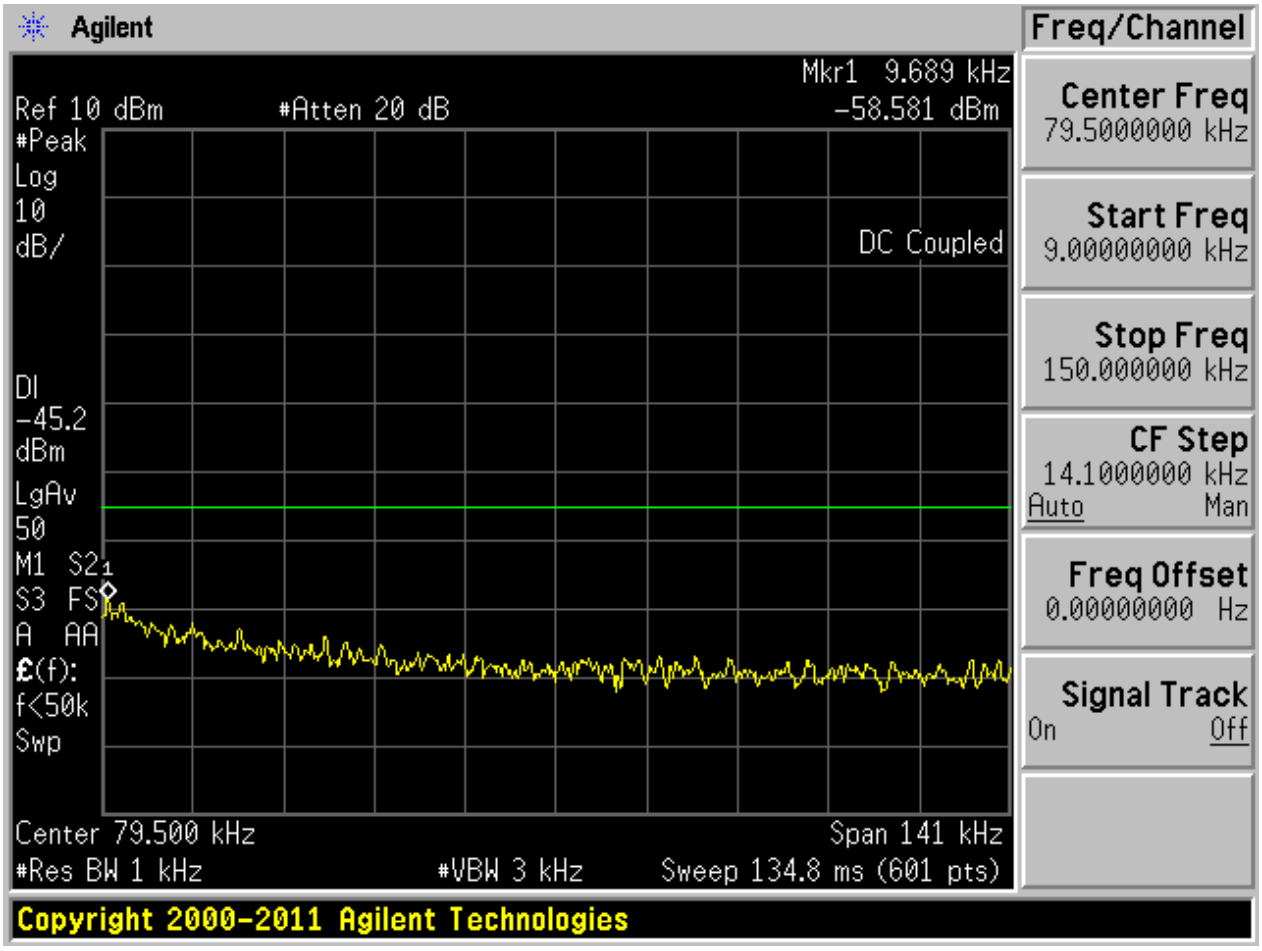

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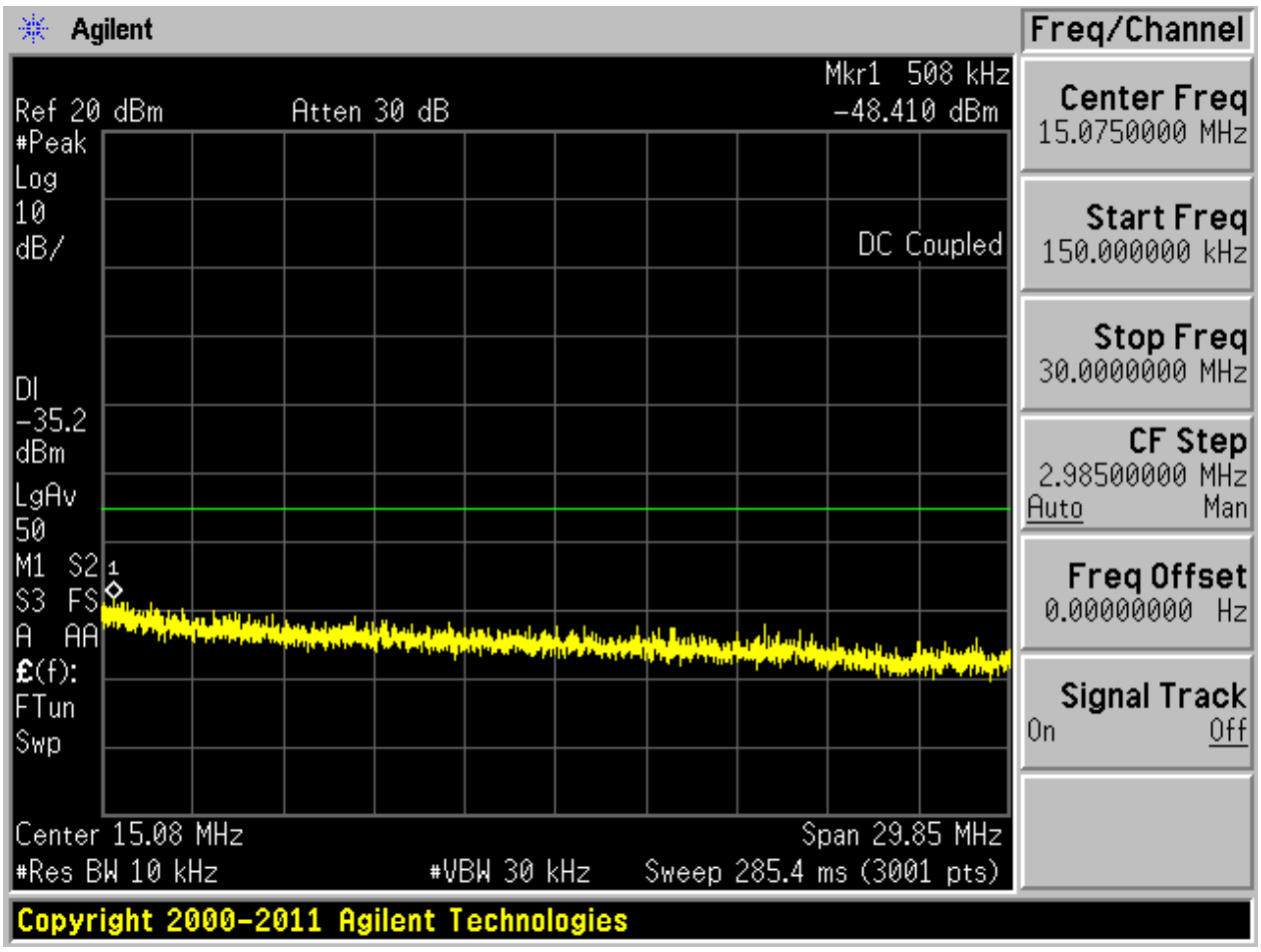

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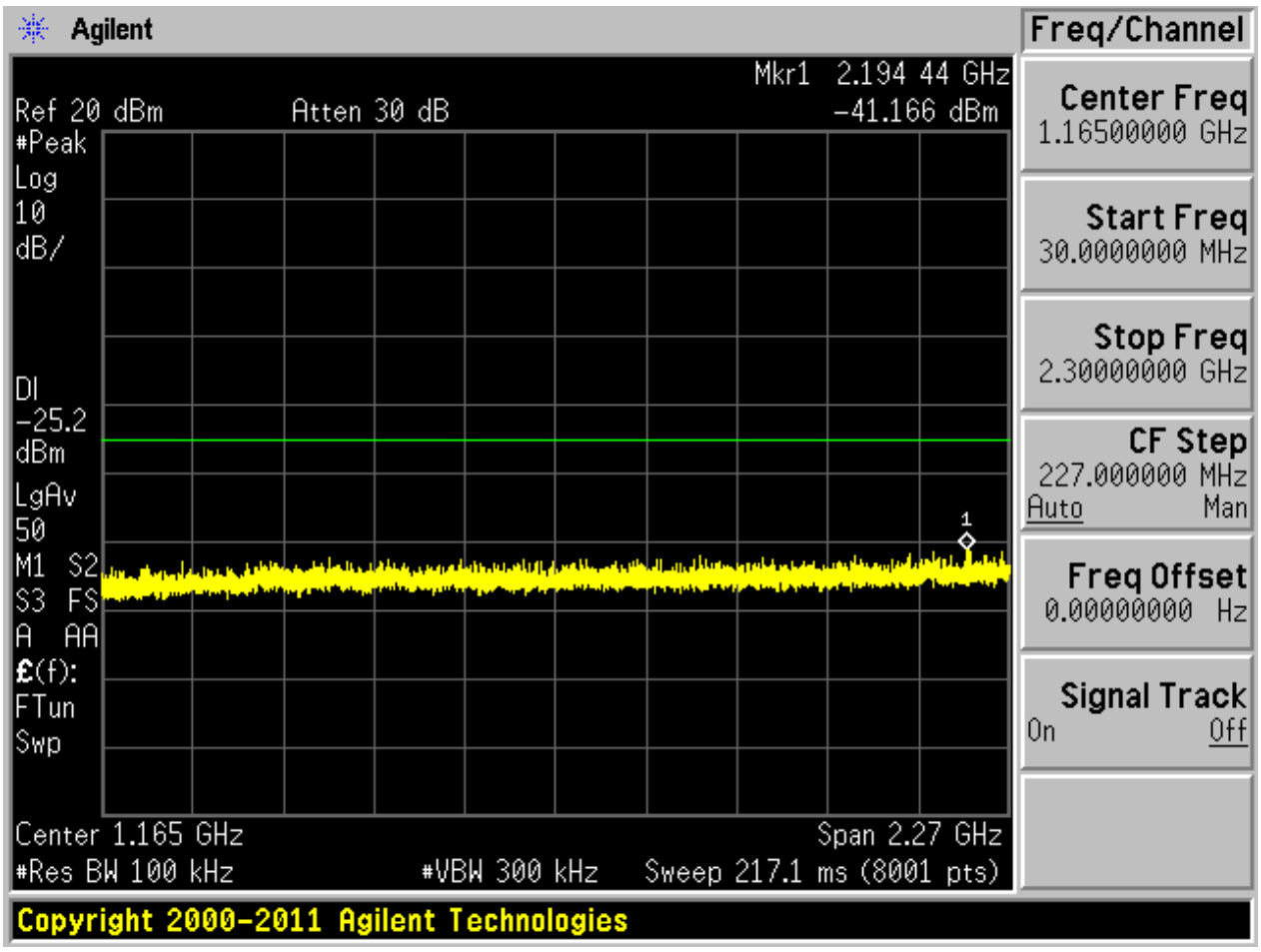

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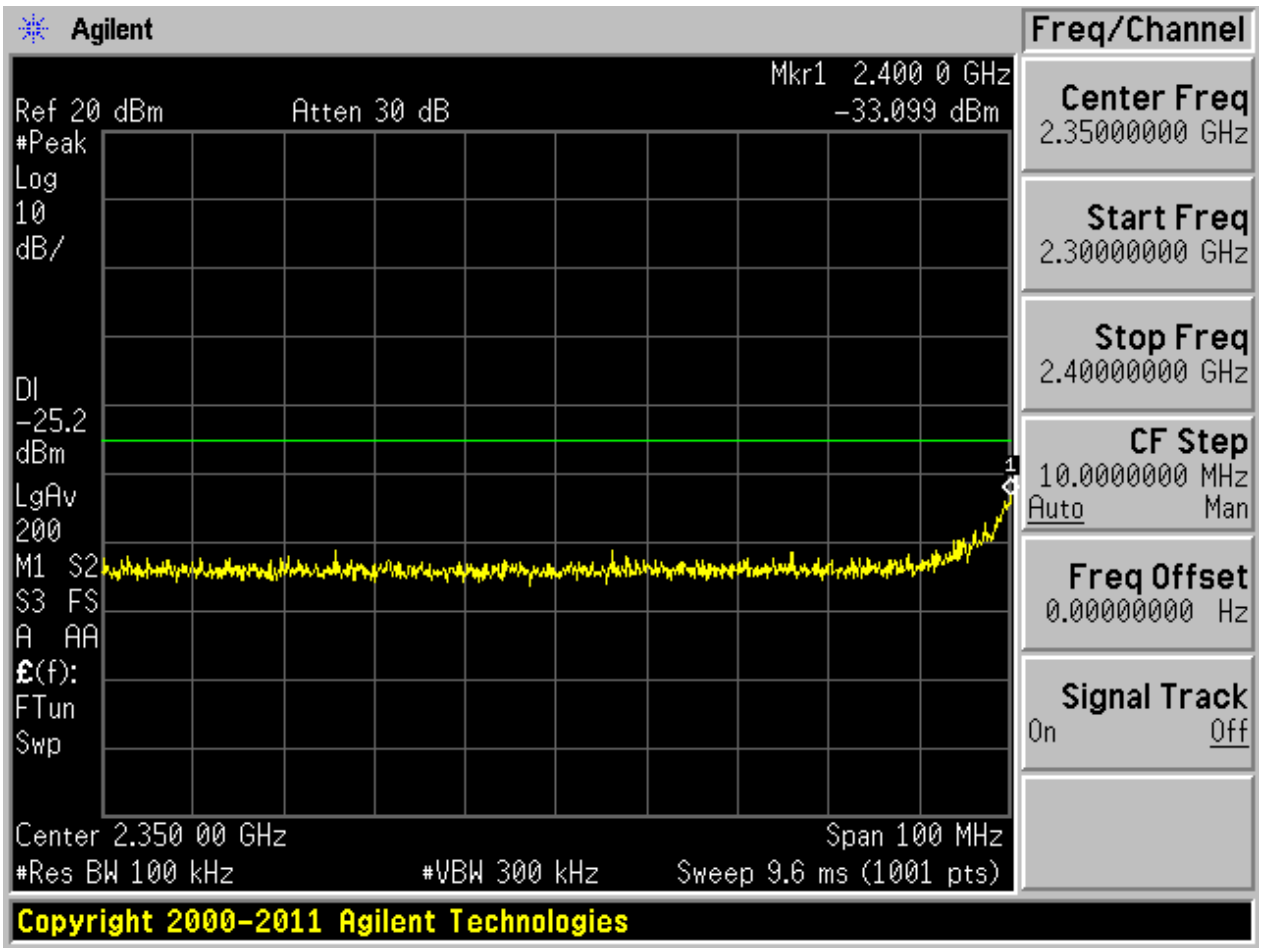

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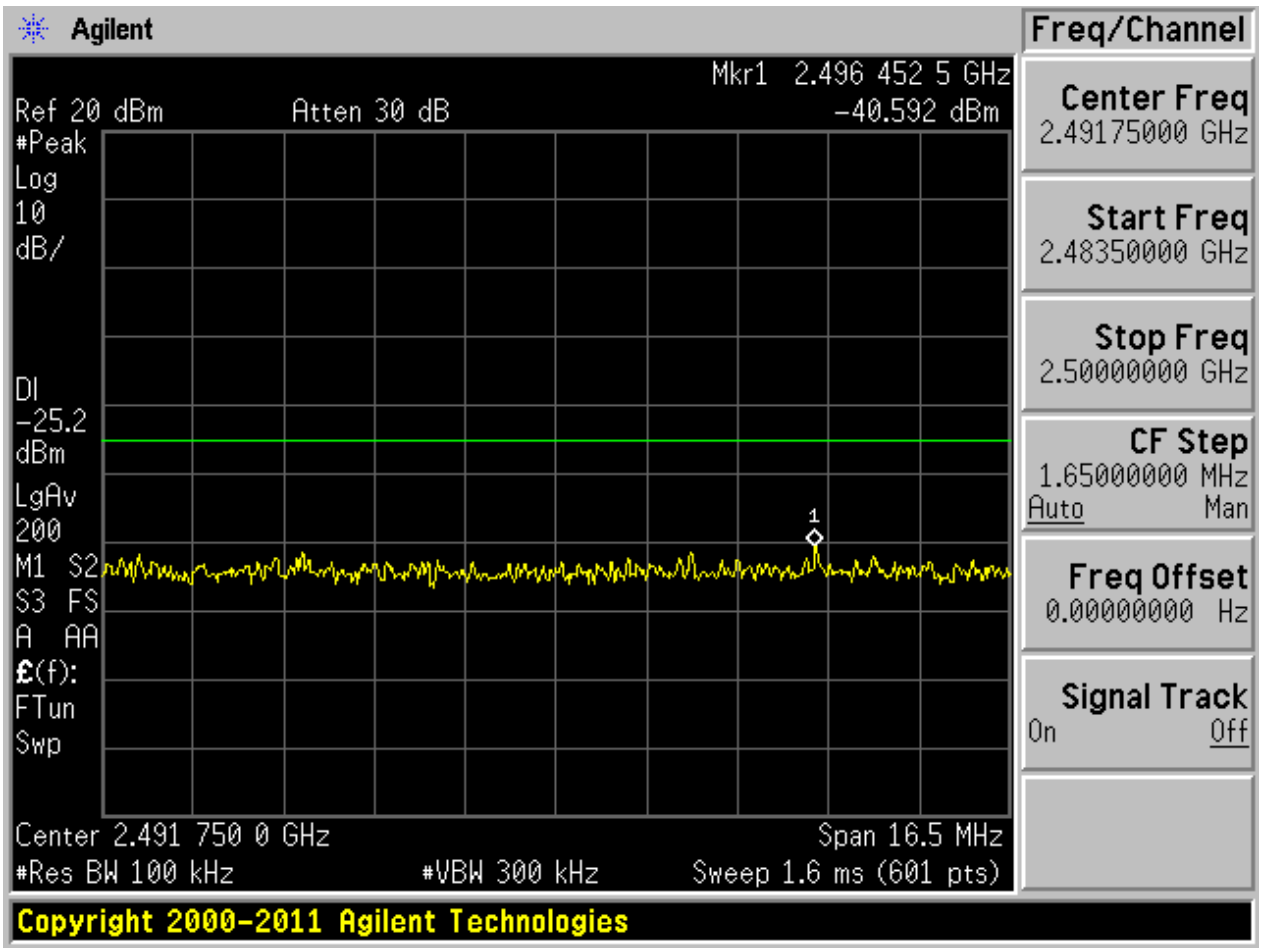

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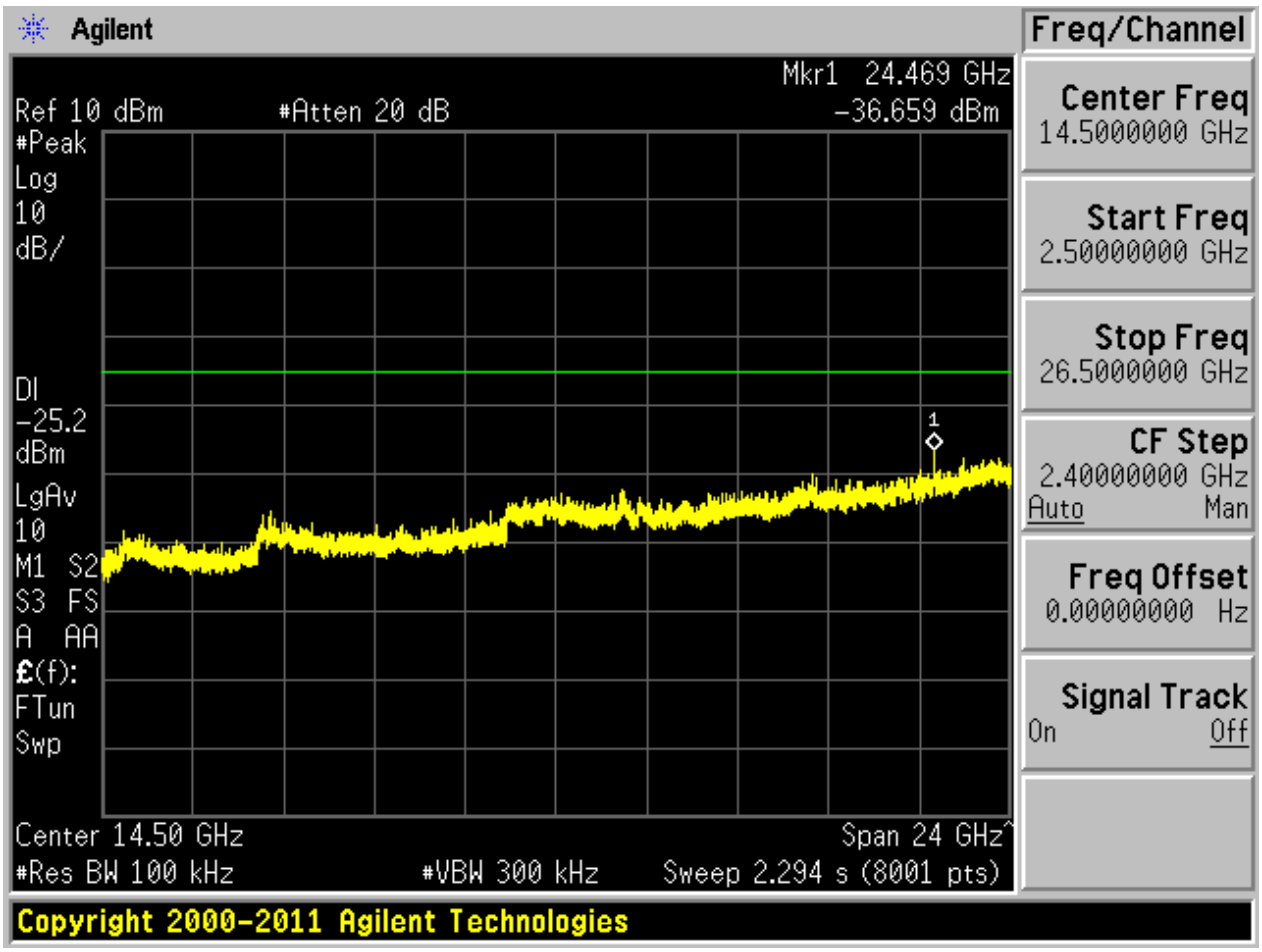

2.8 11G/6_M@1

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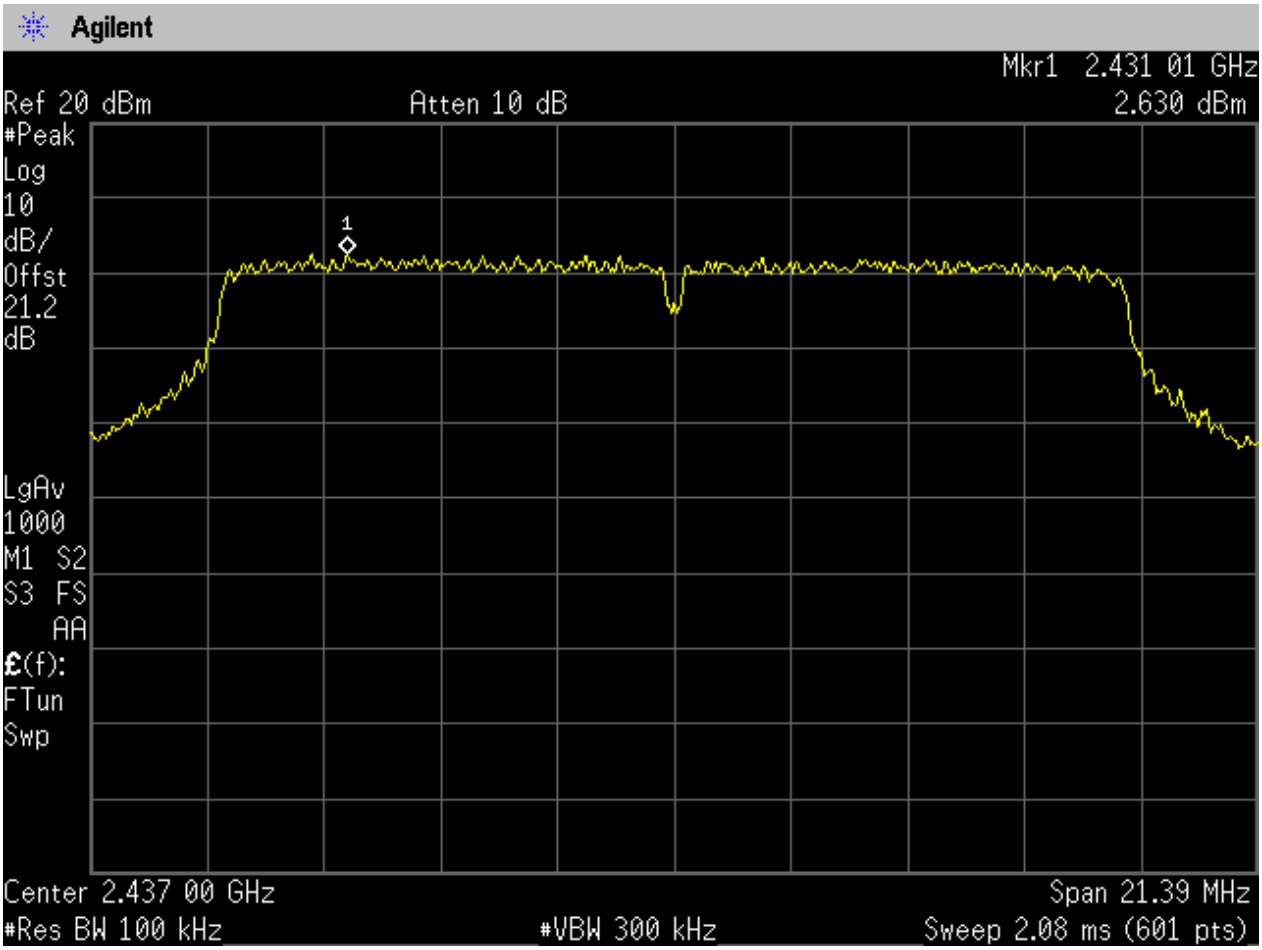

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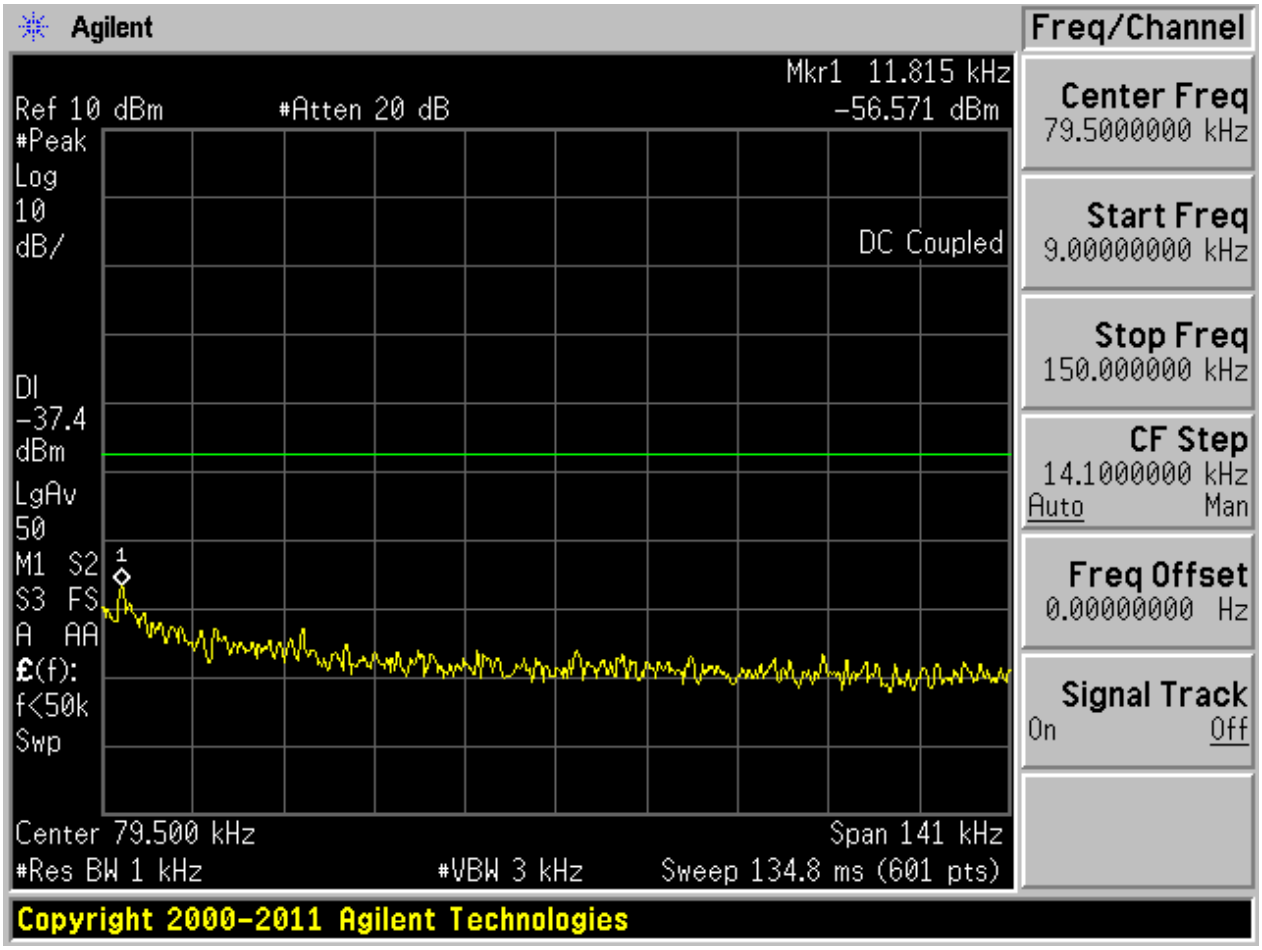

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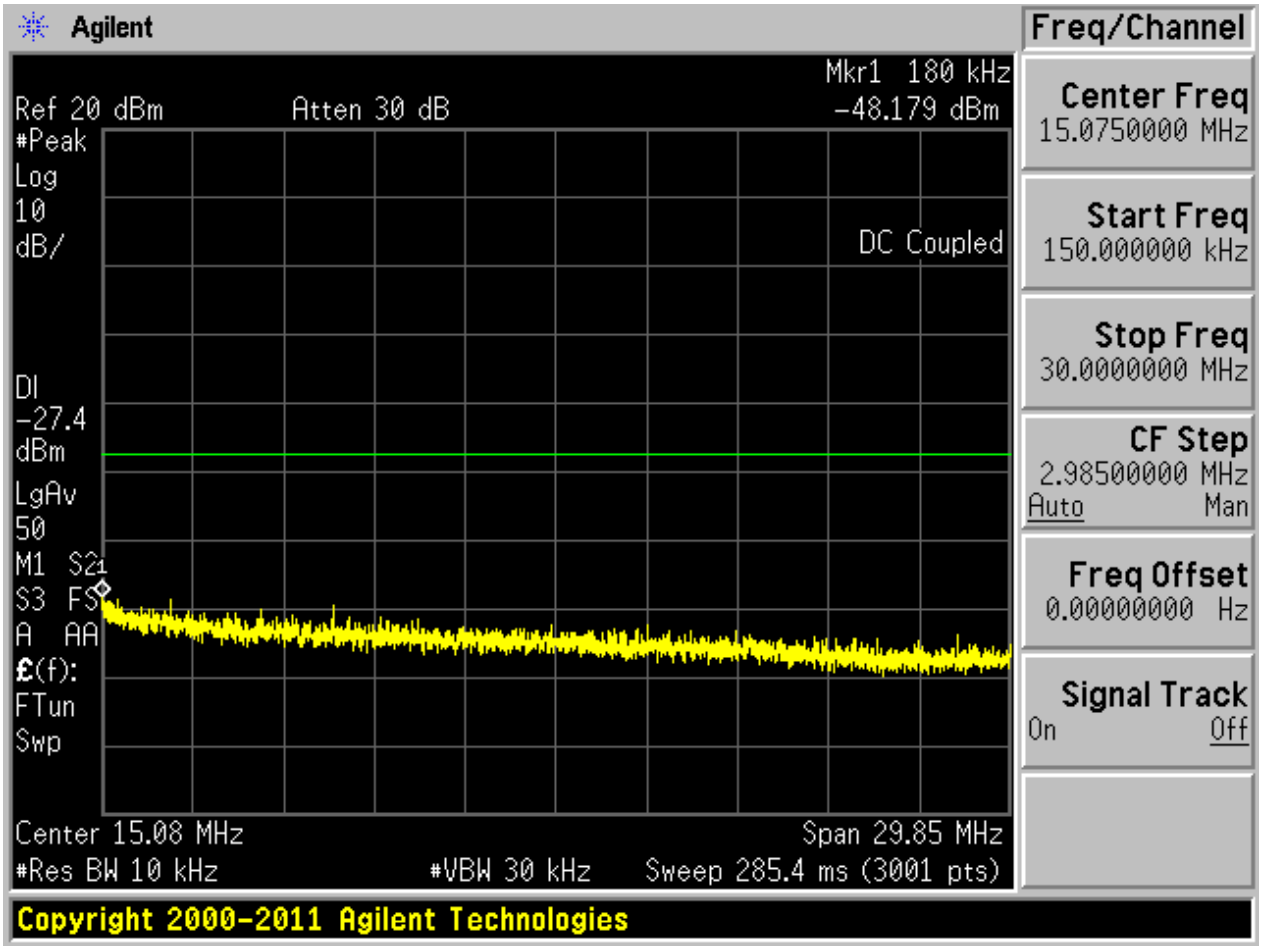

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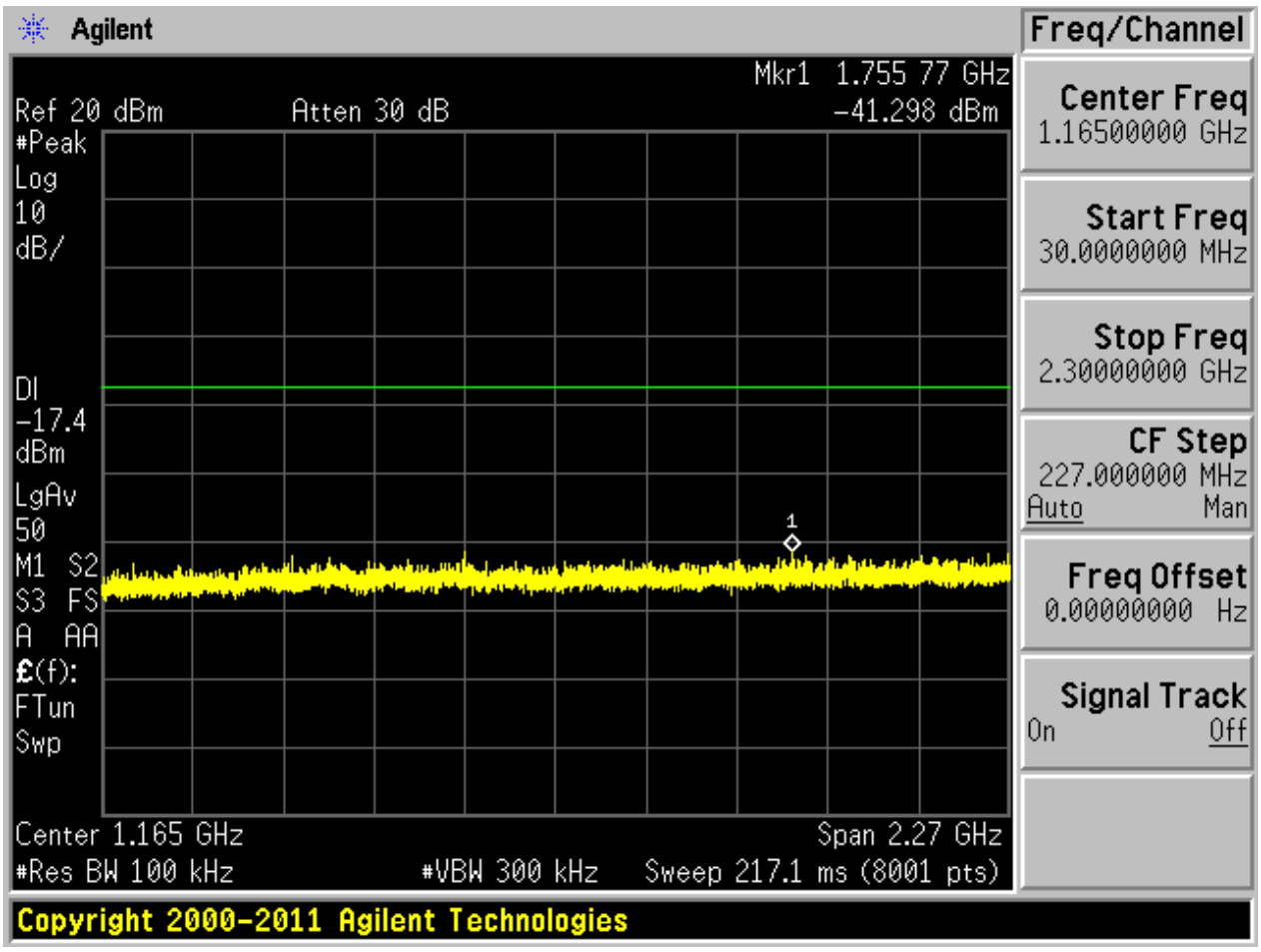

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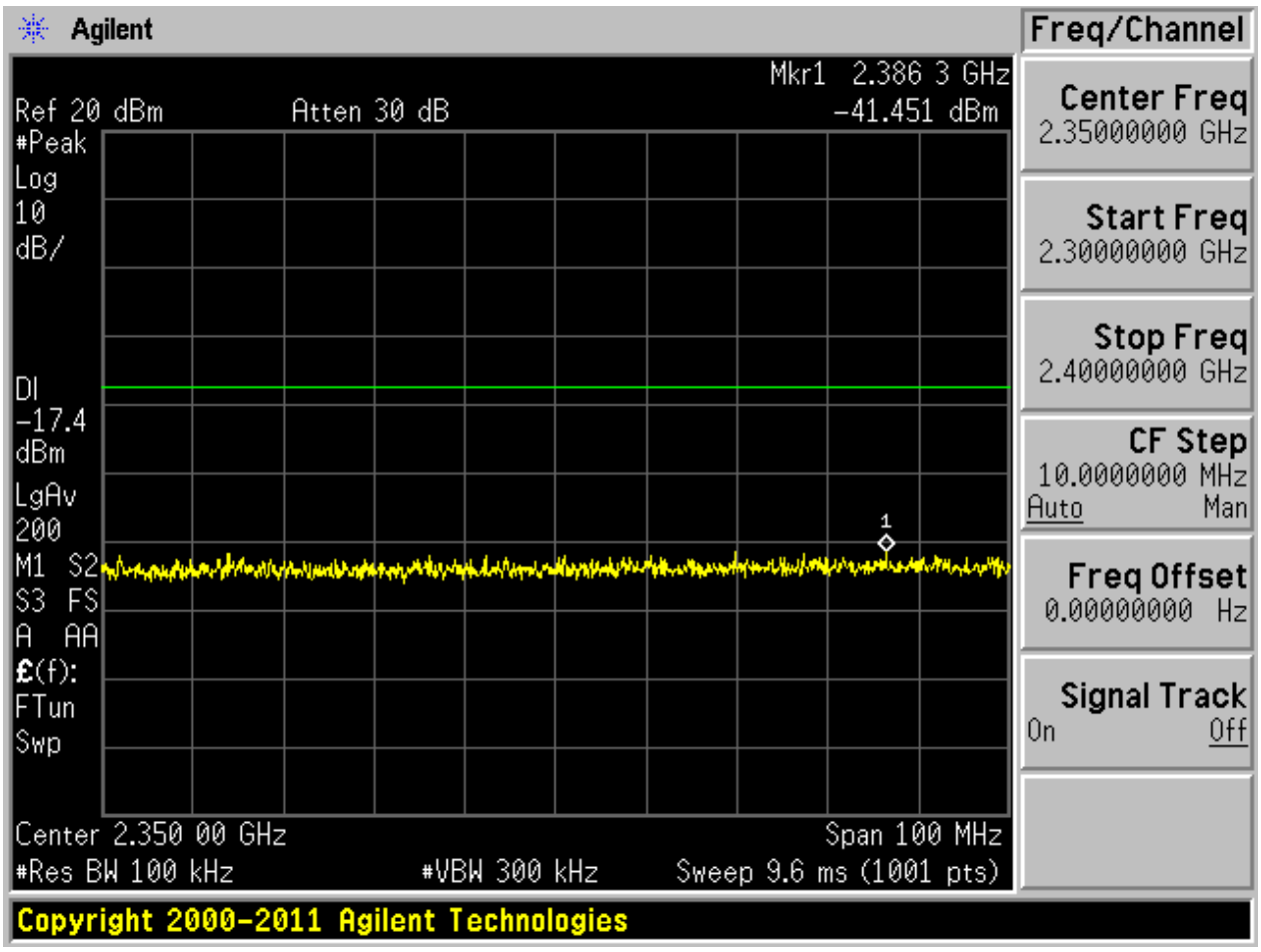

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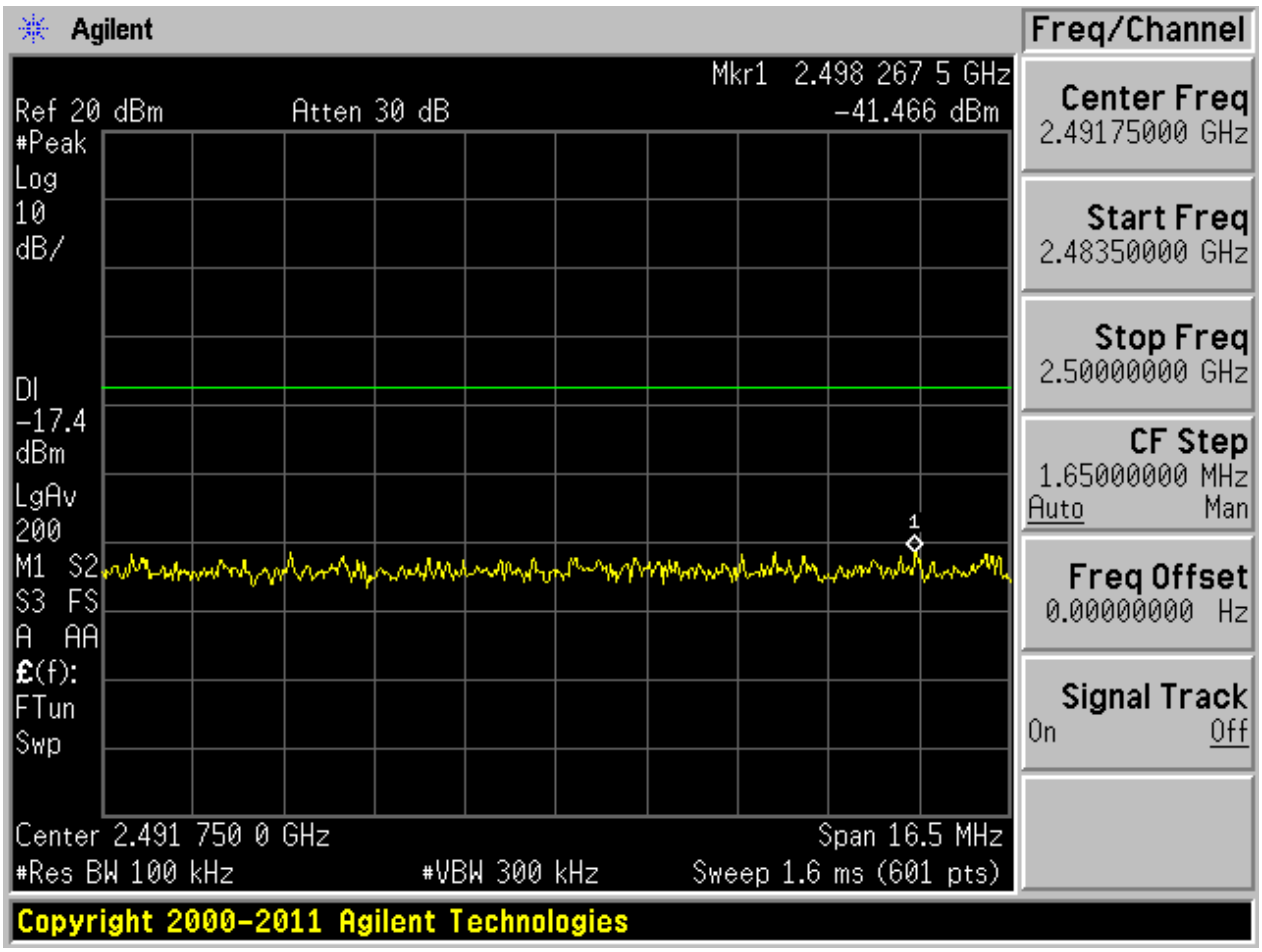

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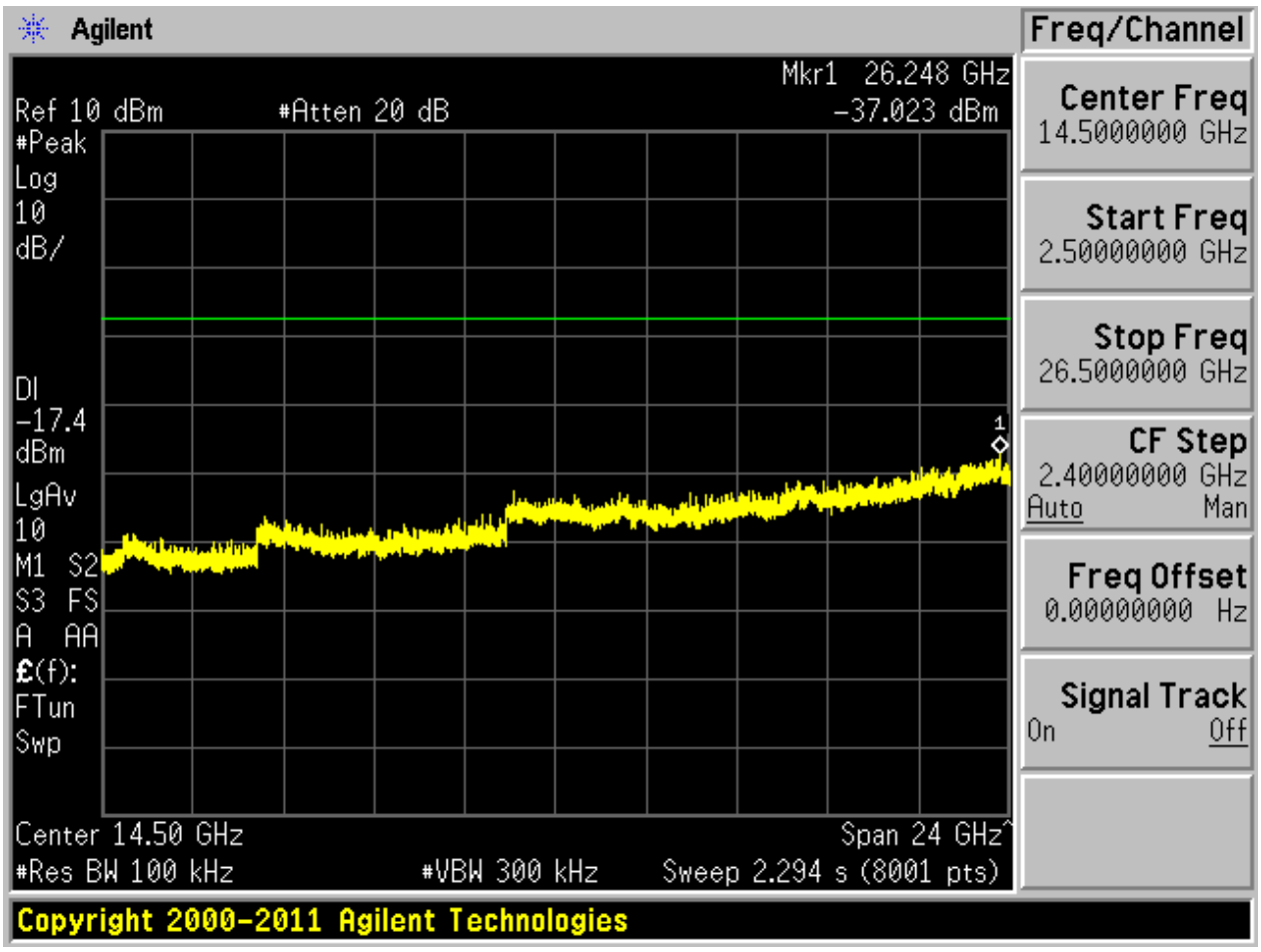

2.9 11G/6_T@1

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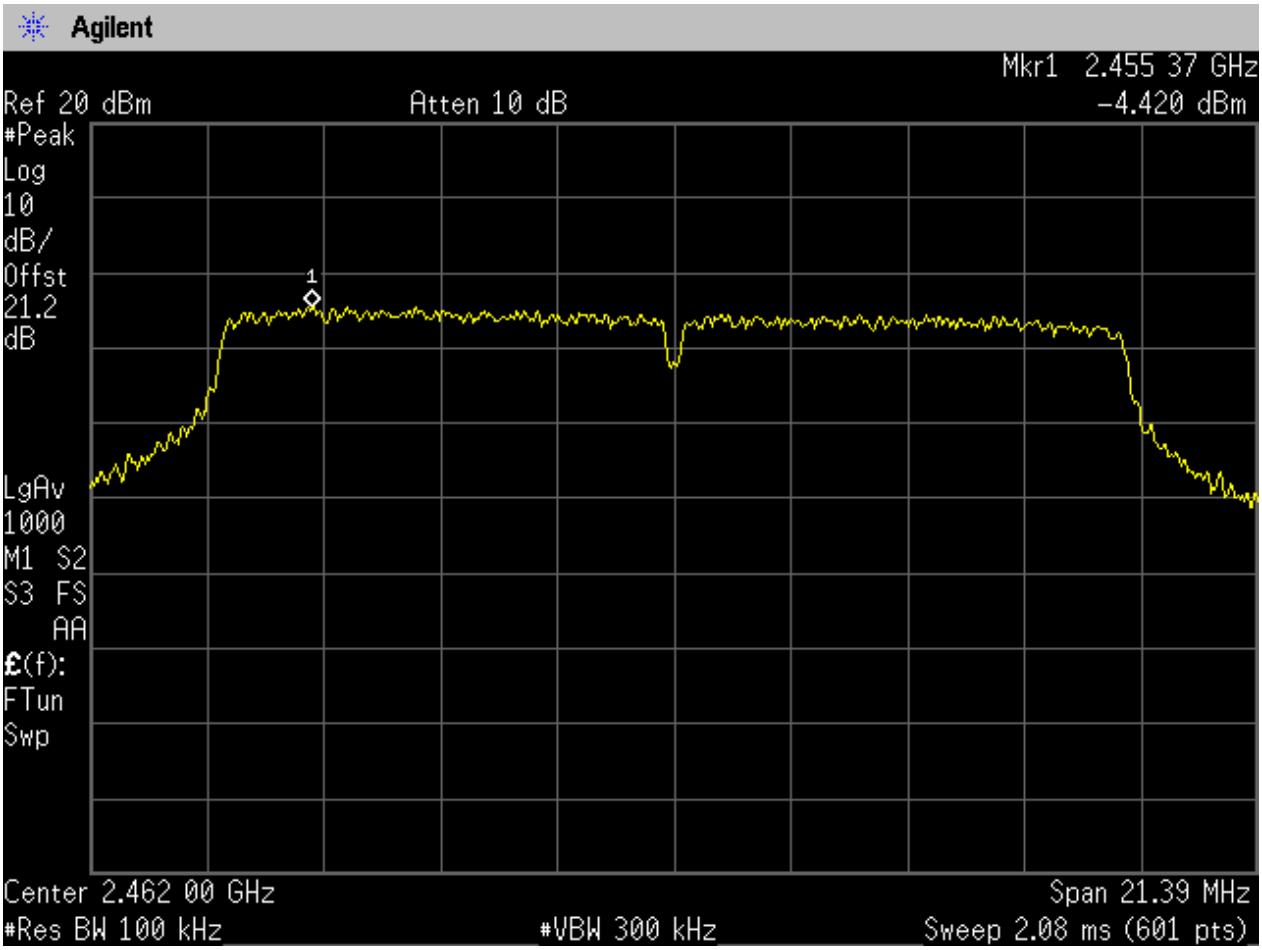

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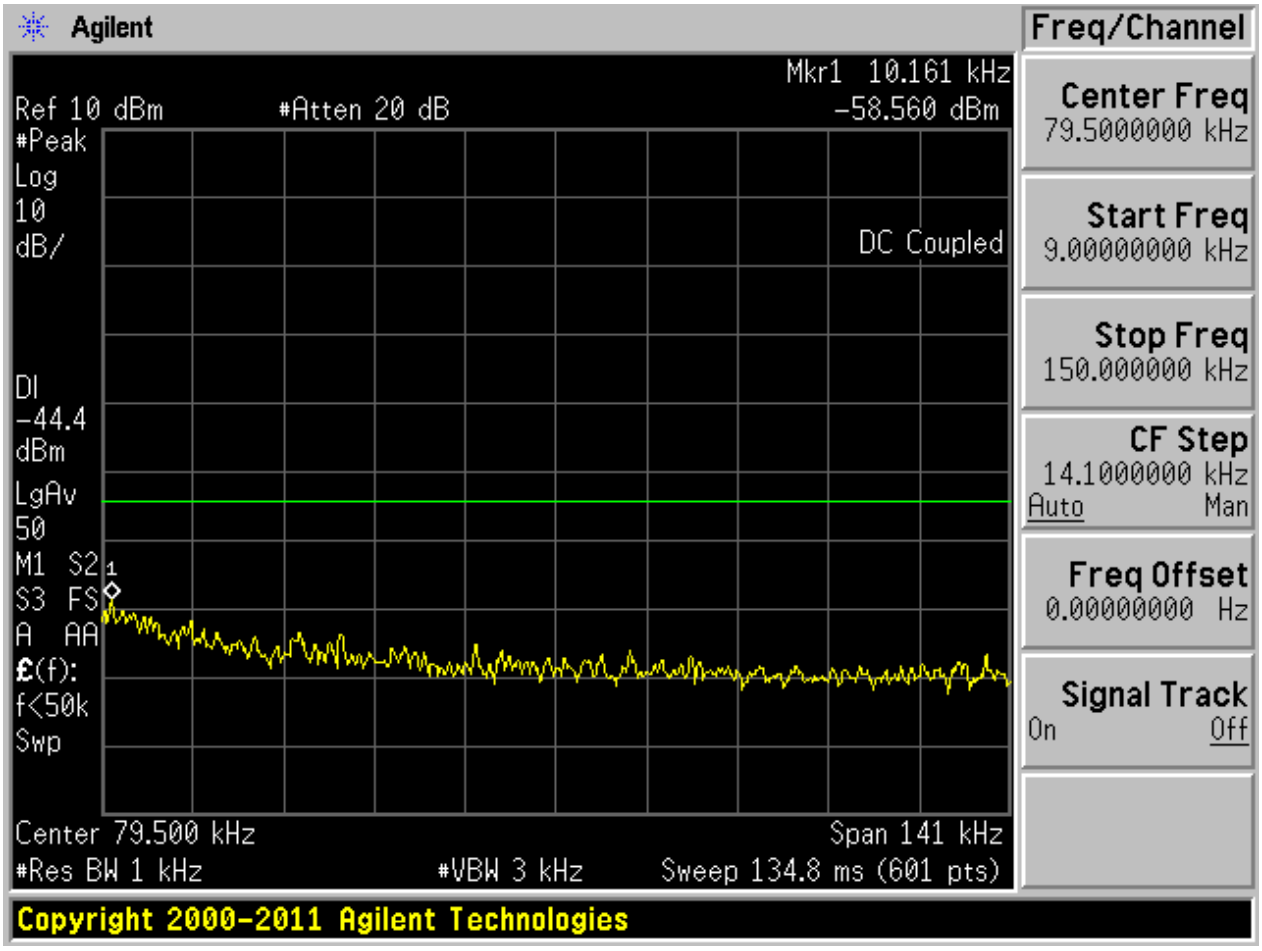

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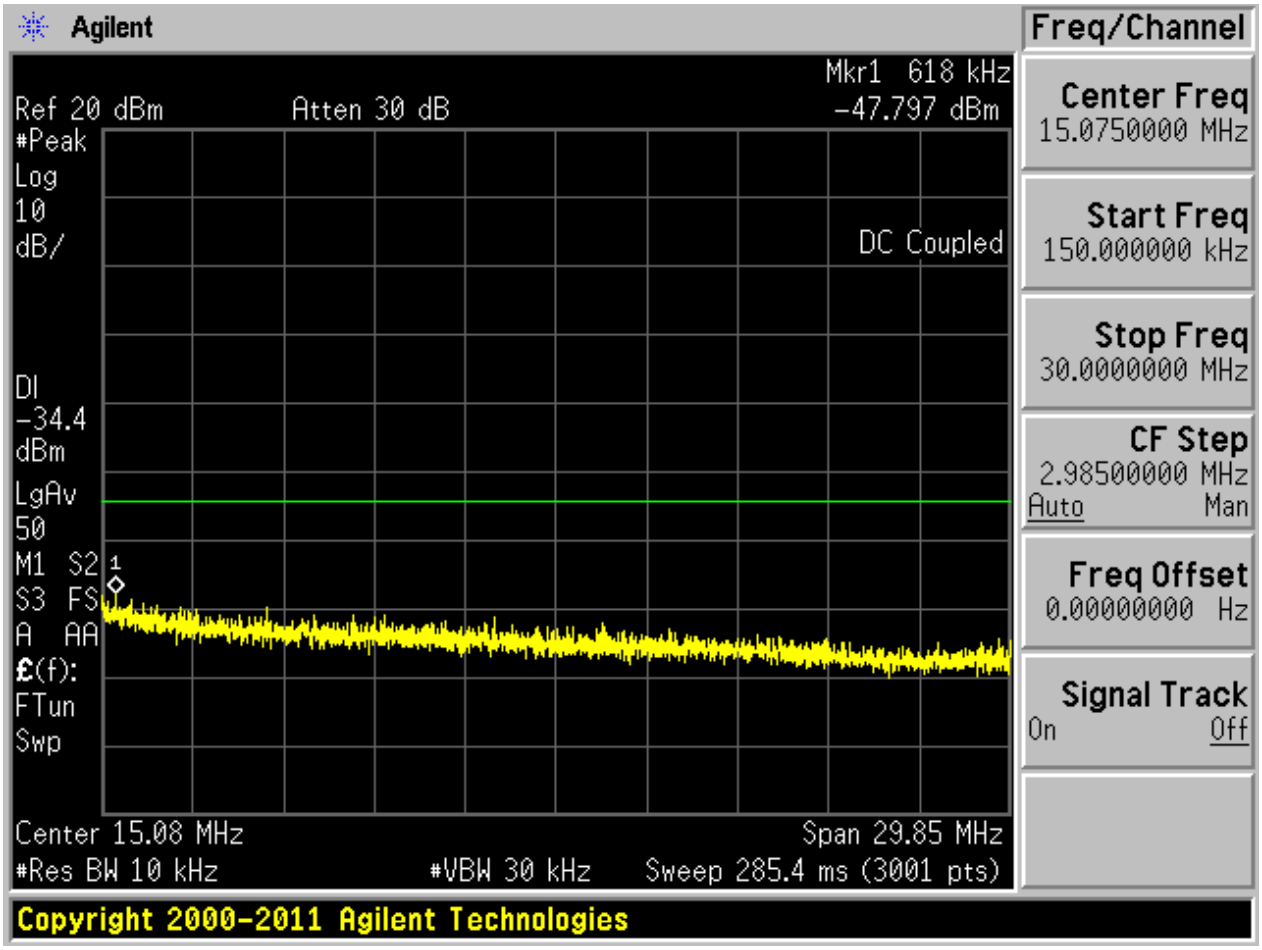

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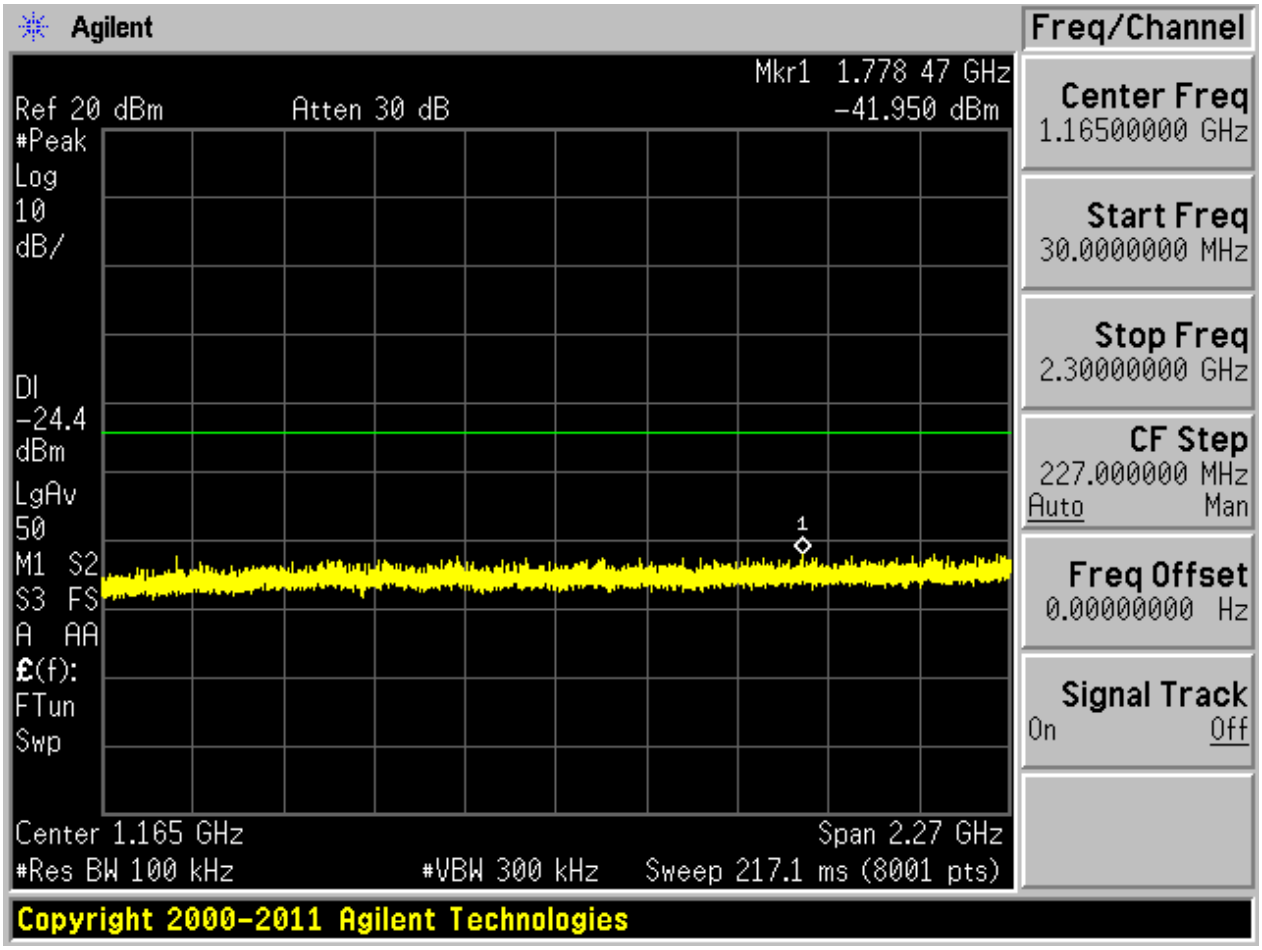

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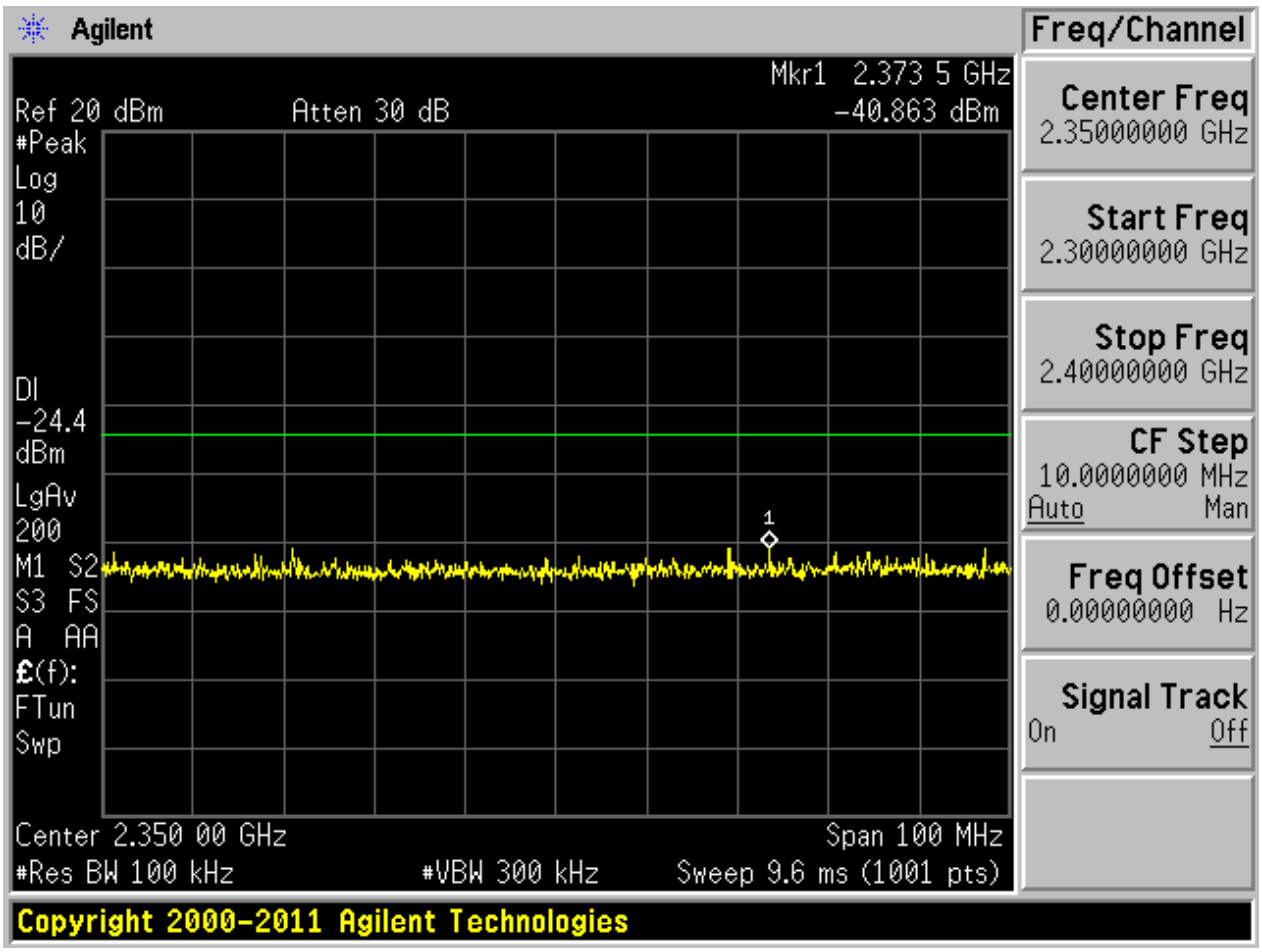

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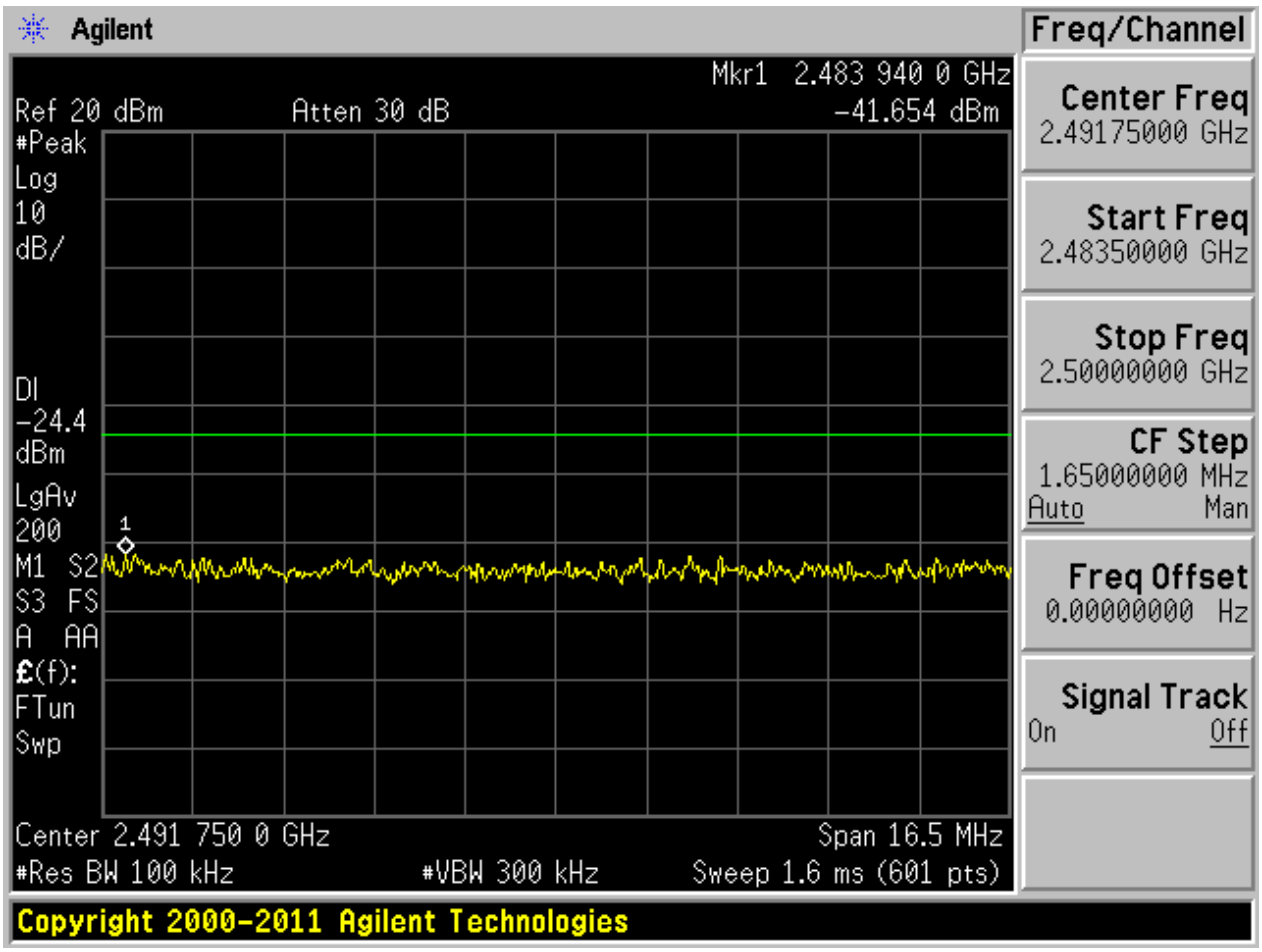

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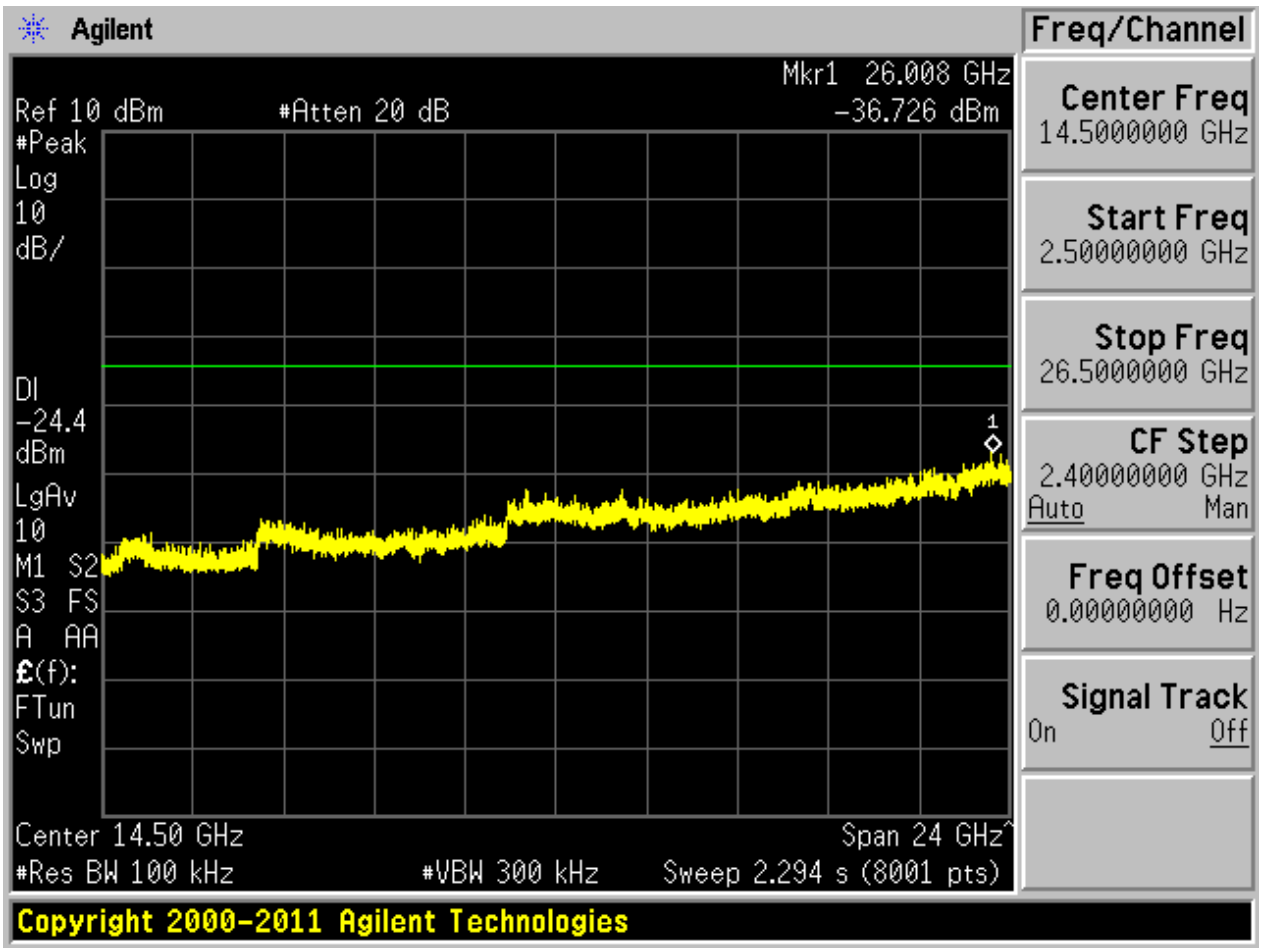

2.1011Gd/6_B@1+2

2.10.1 Ant 1

2.10.1.1 Pref

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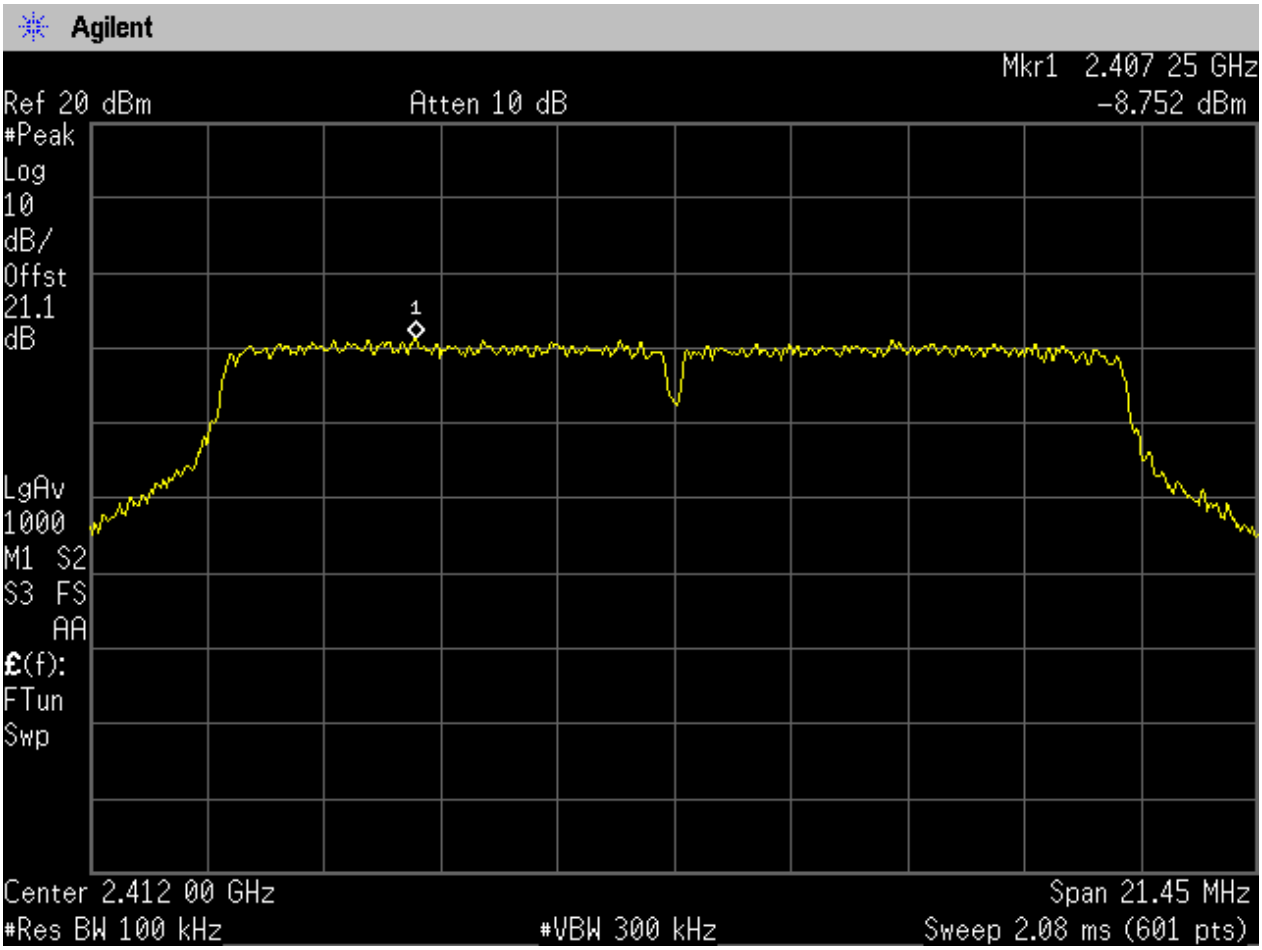

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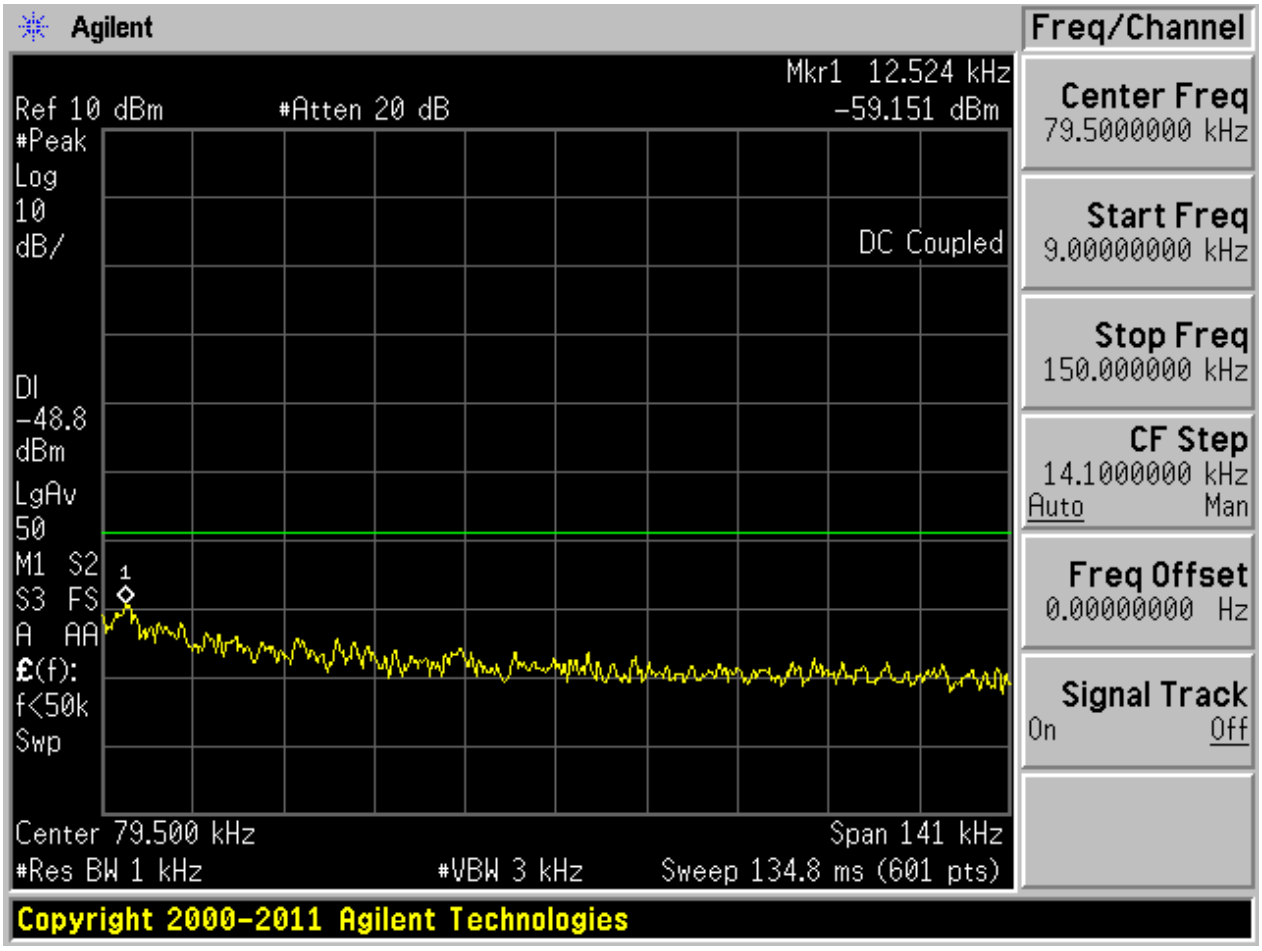

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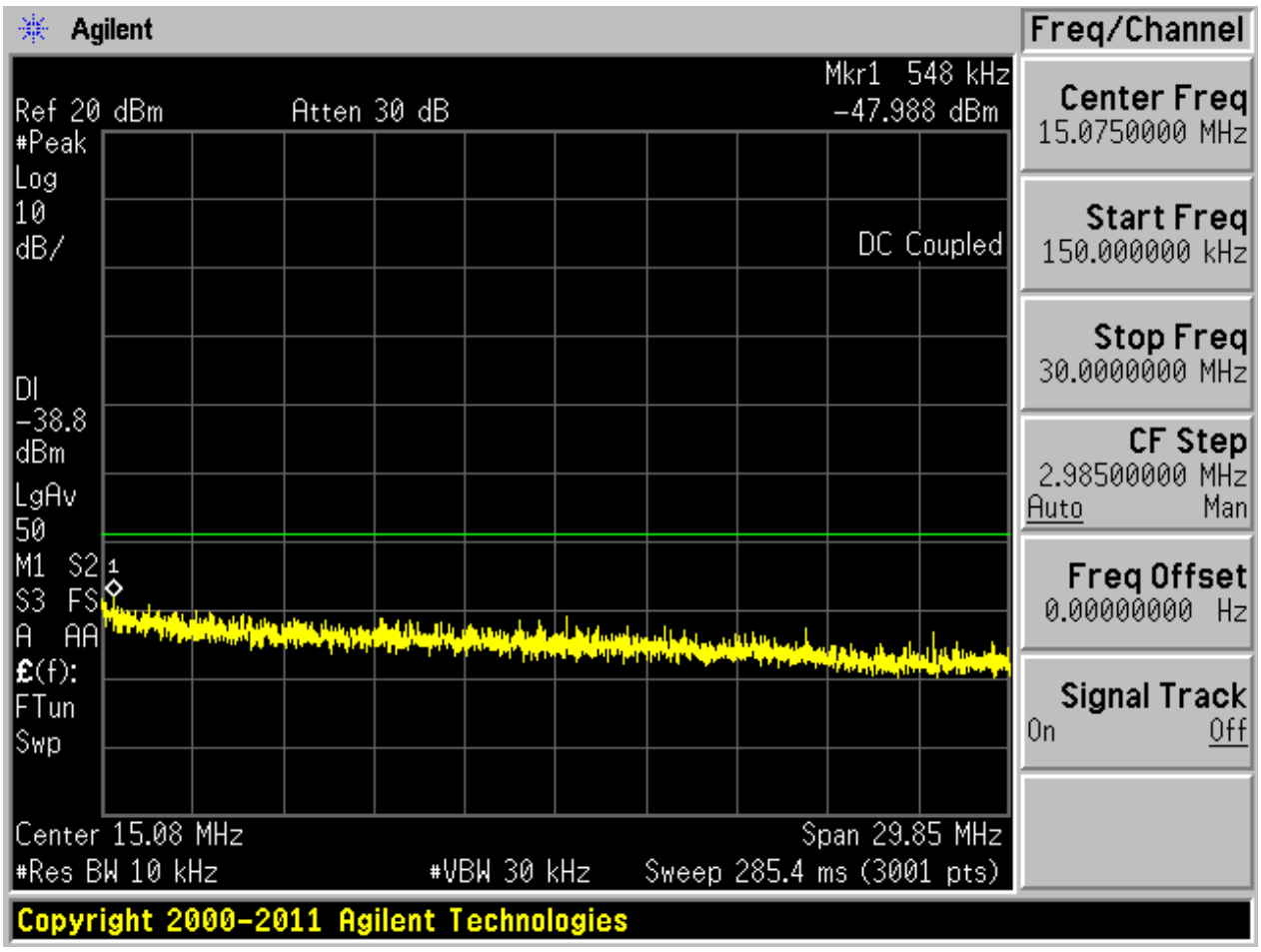

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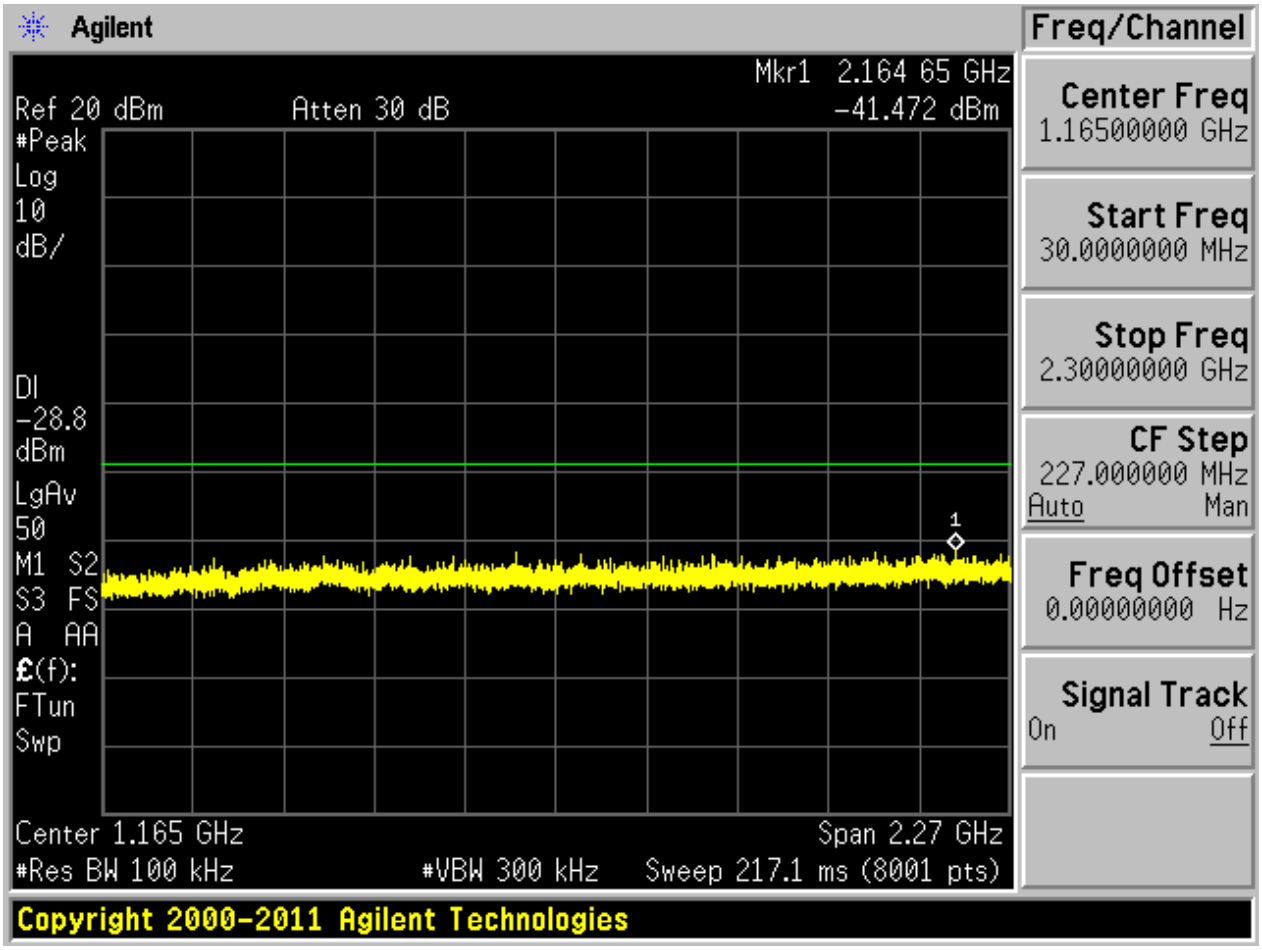

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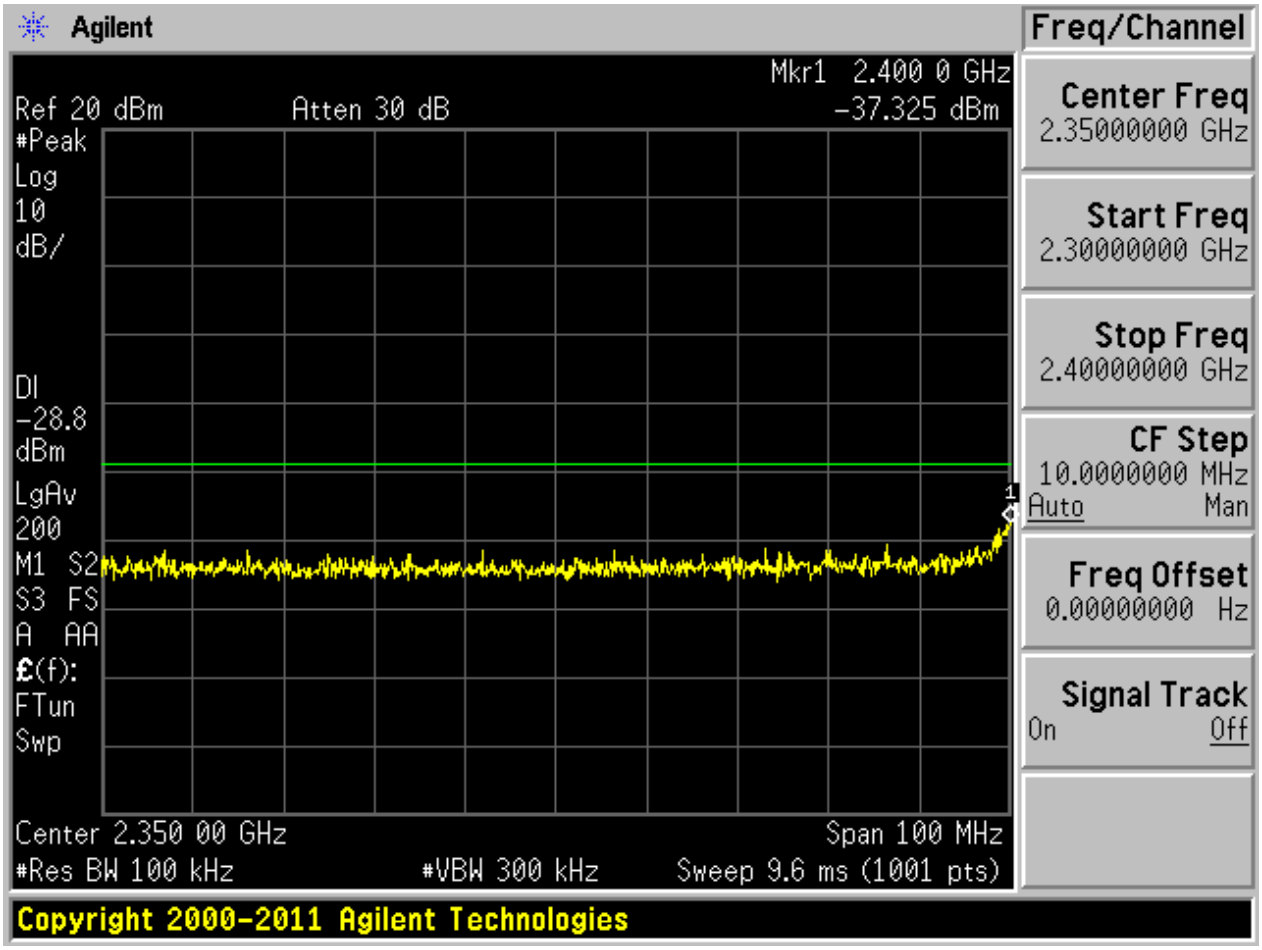

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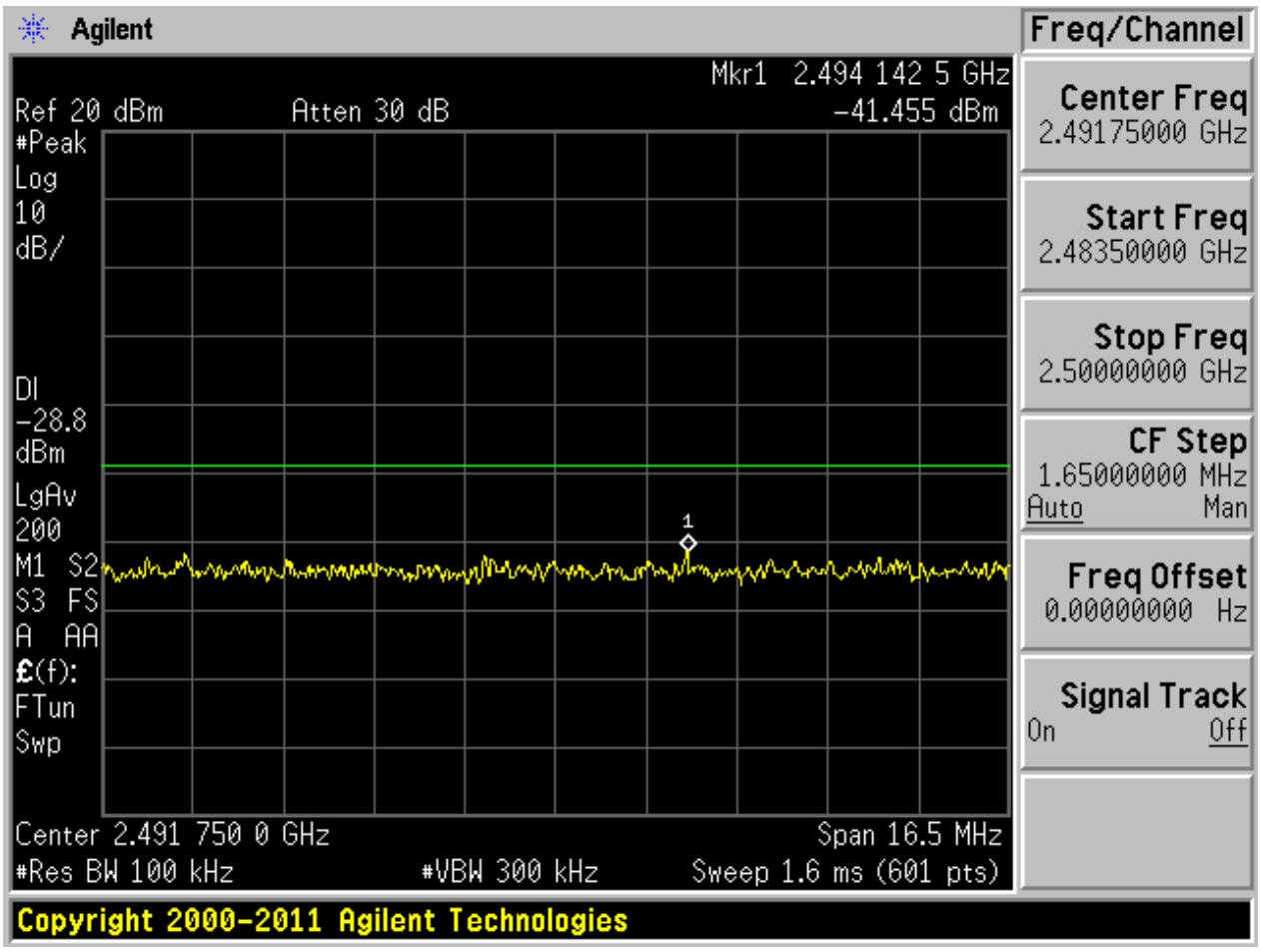

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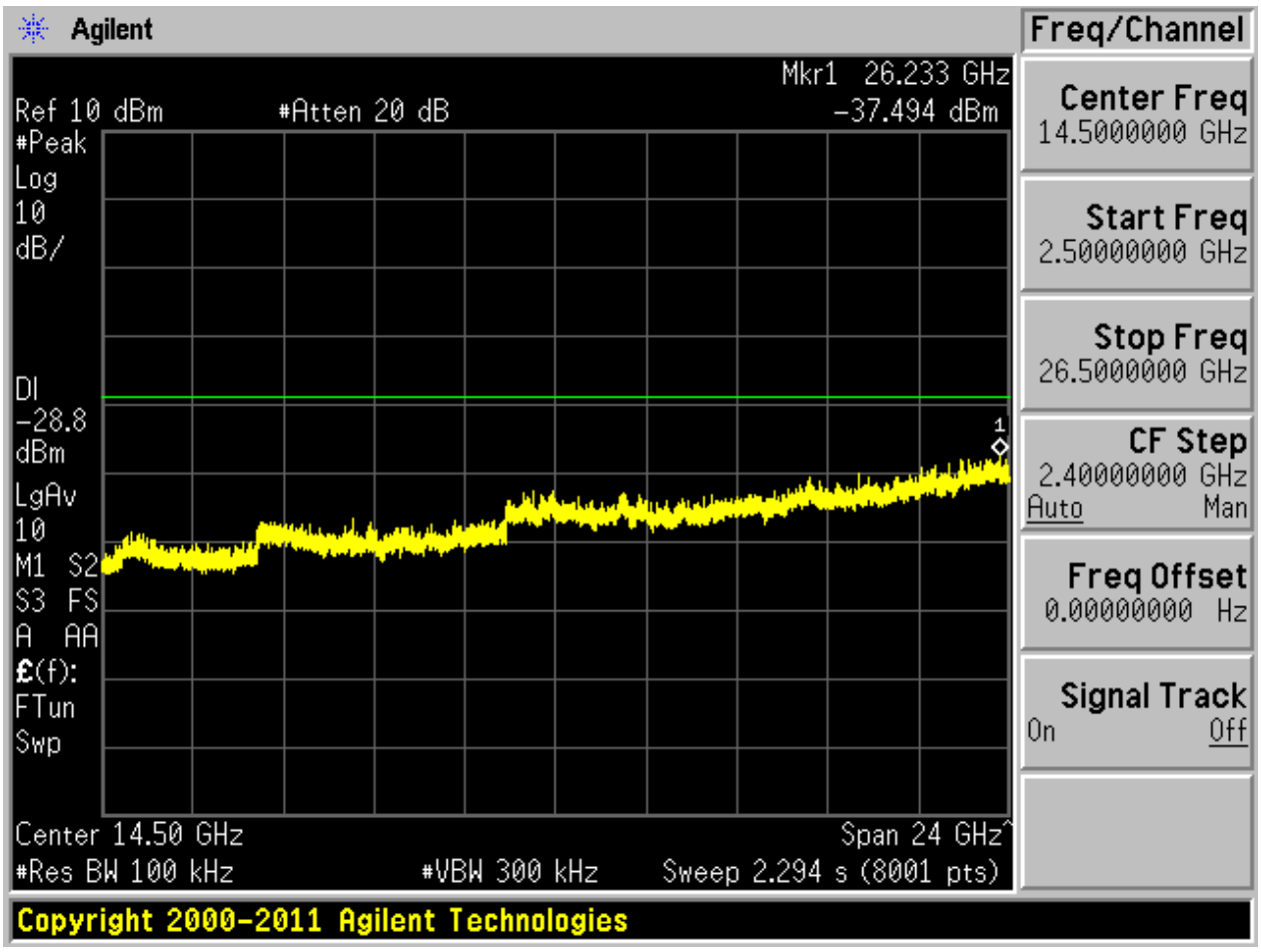

2.10.2 Ant 2

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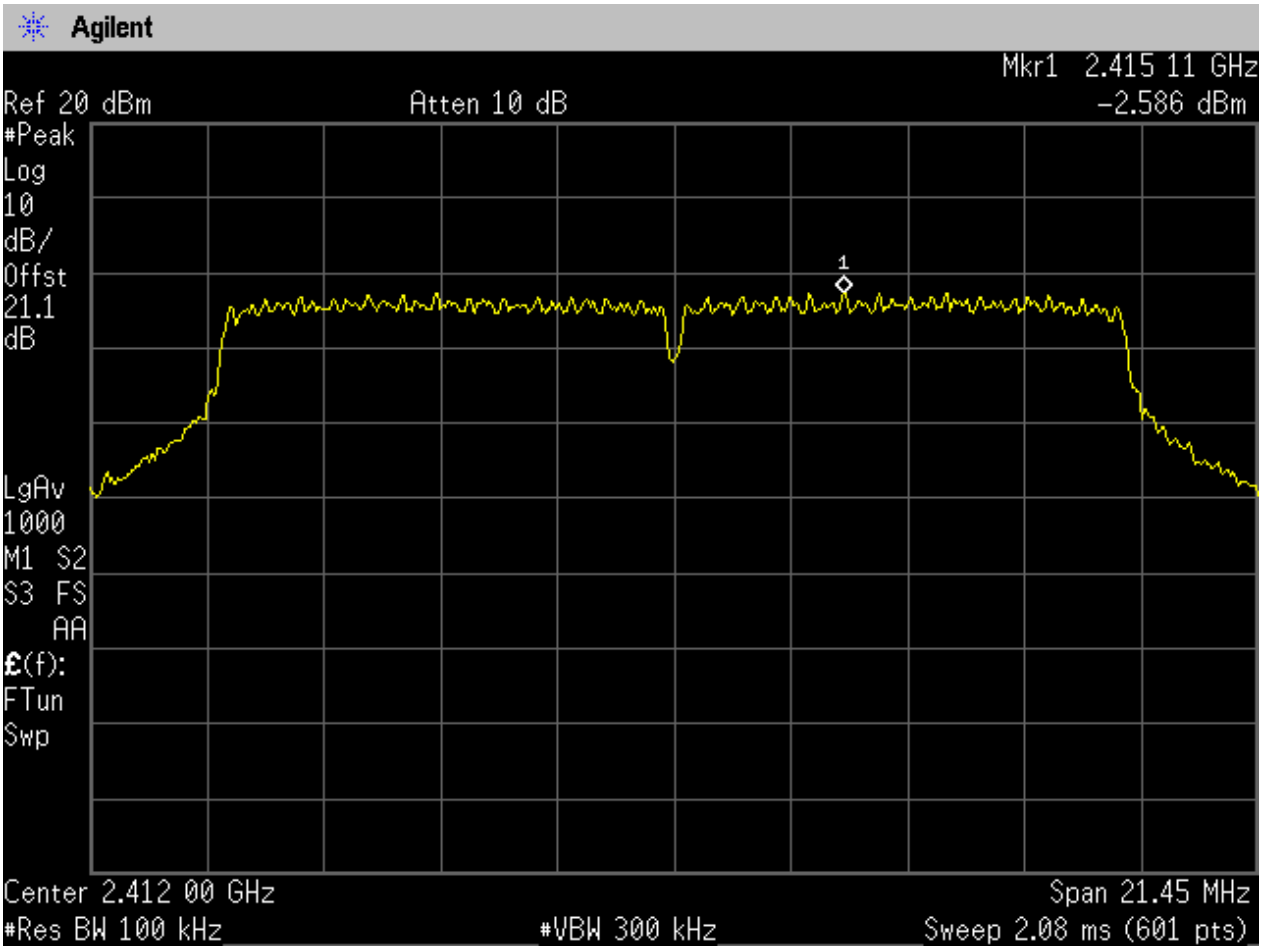

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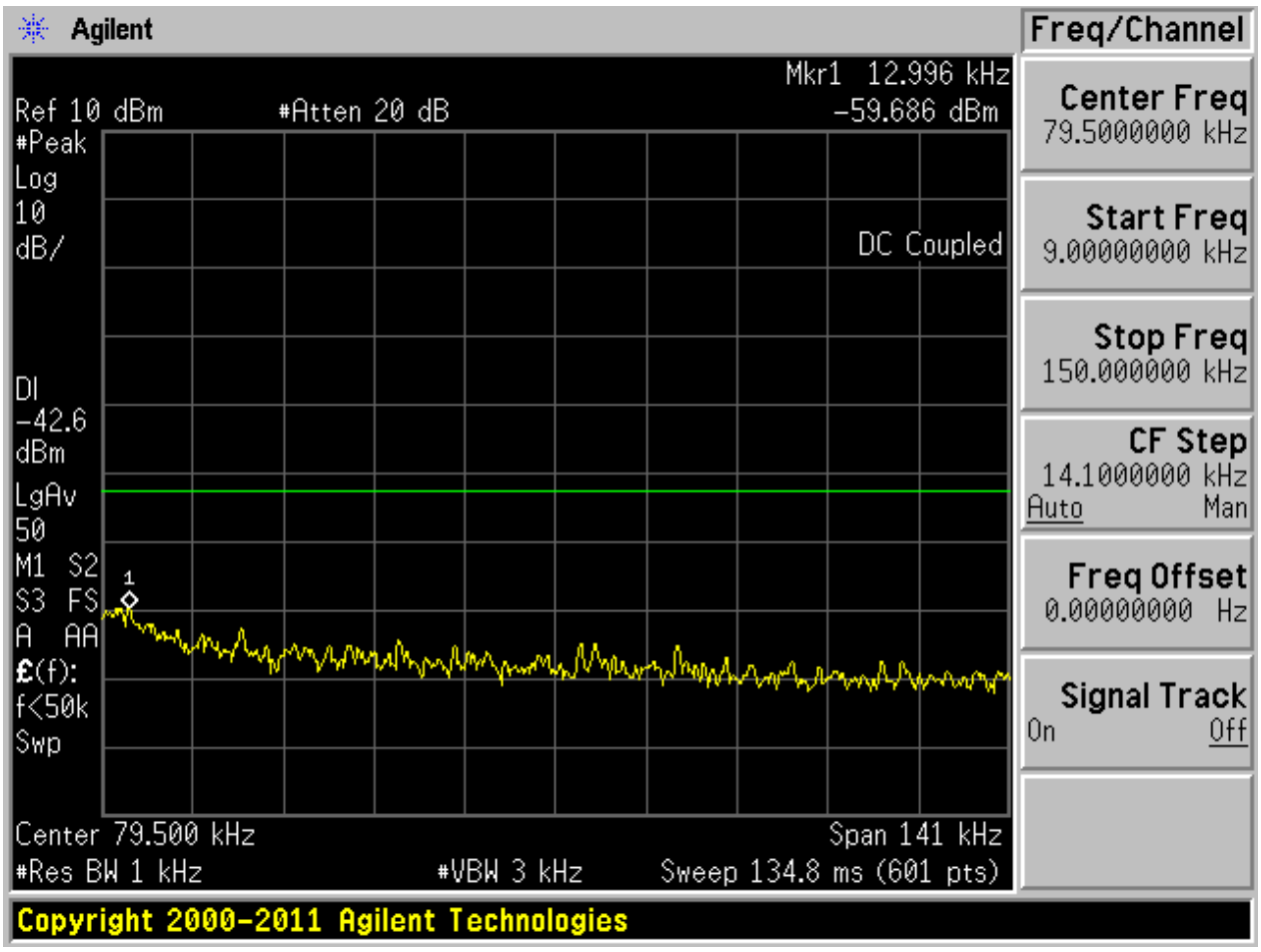

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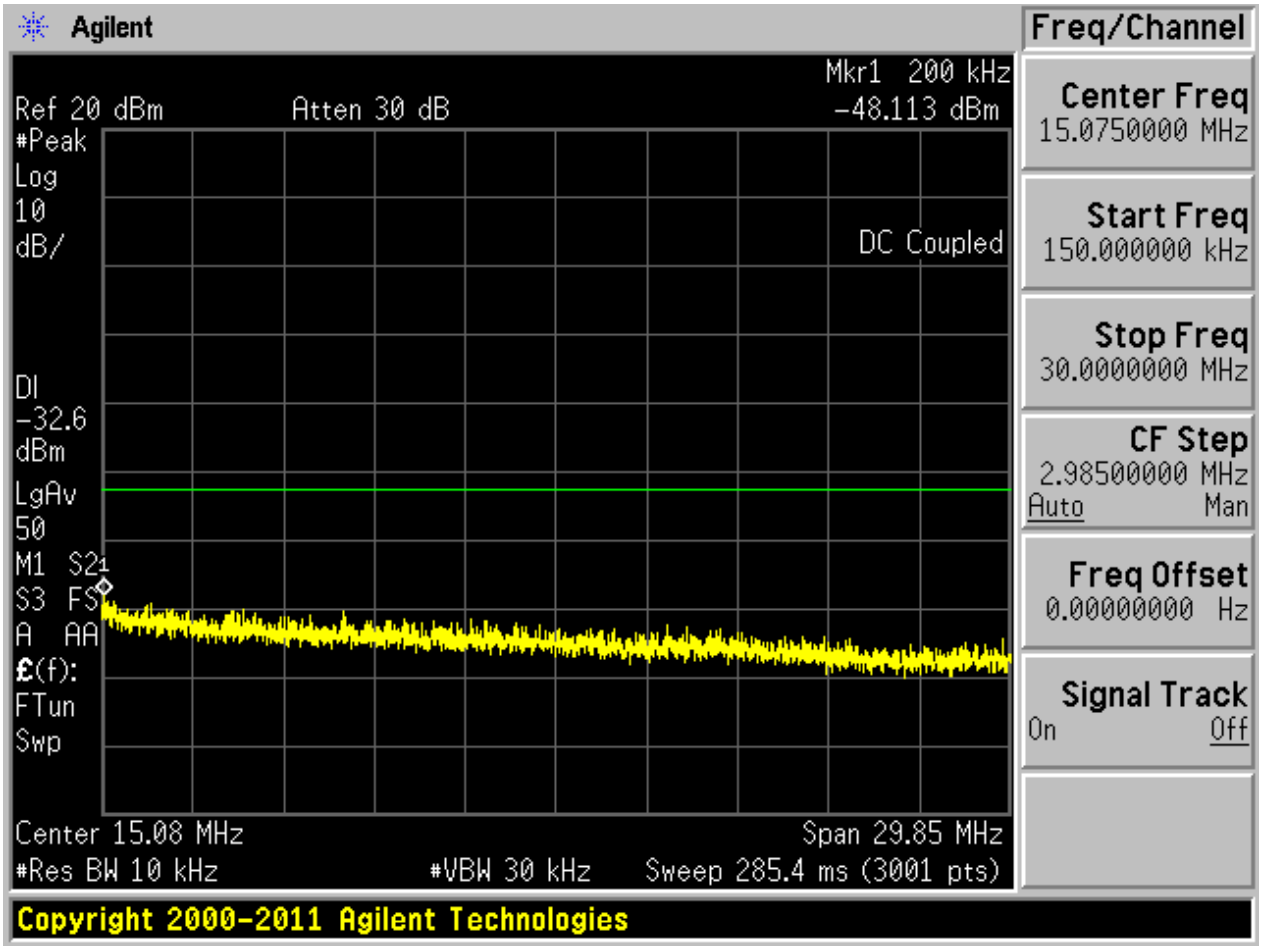

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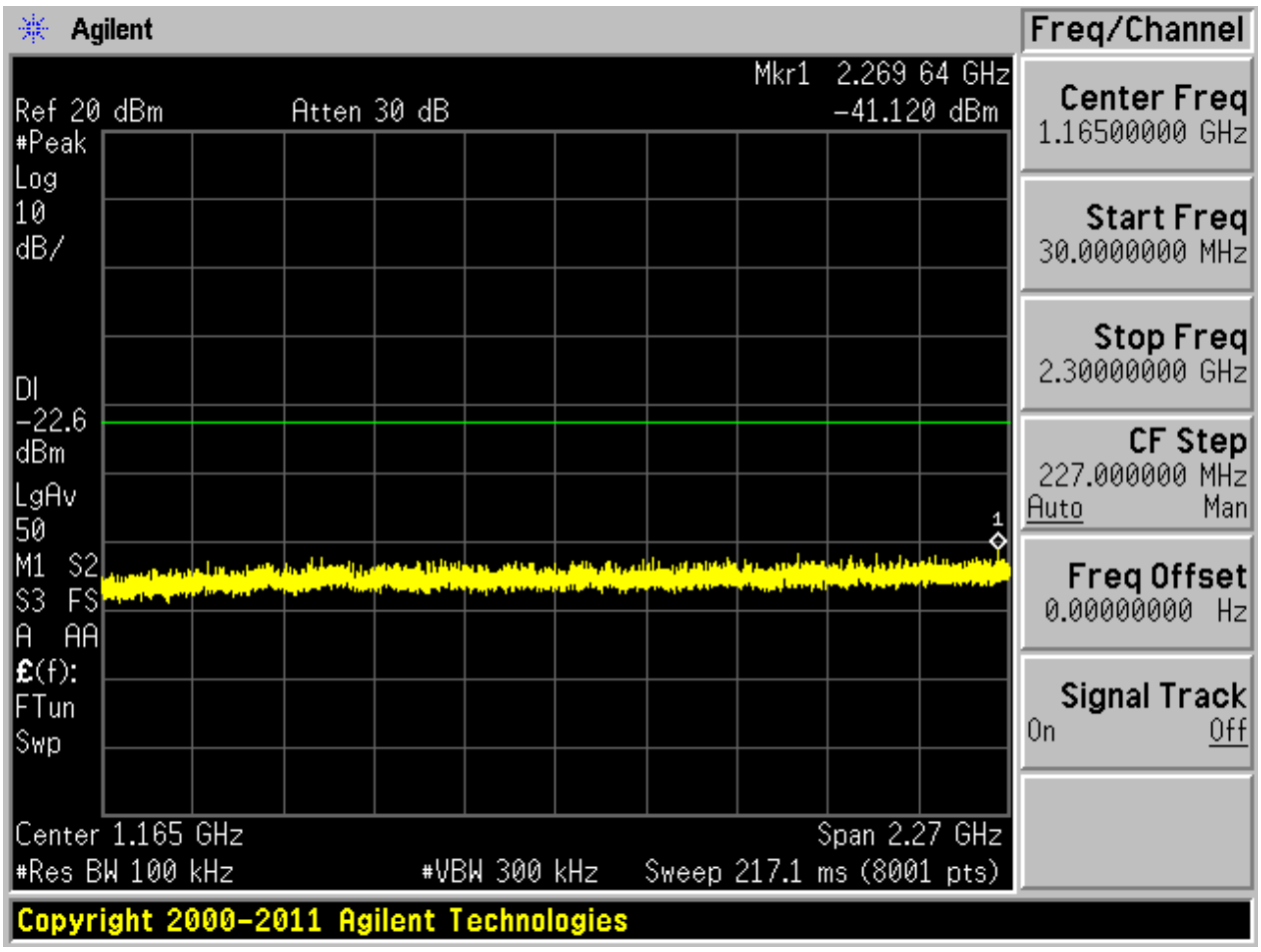

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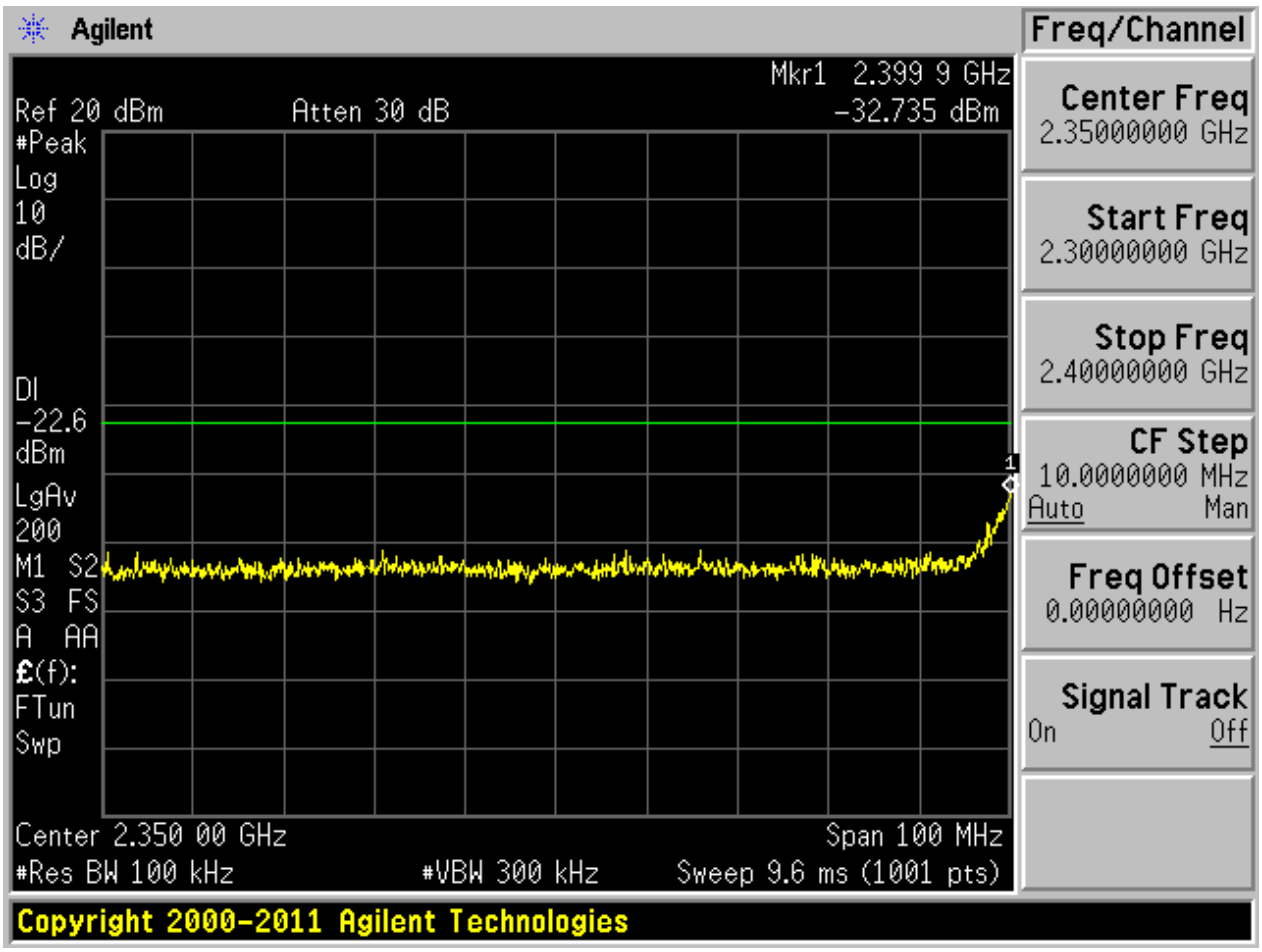

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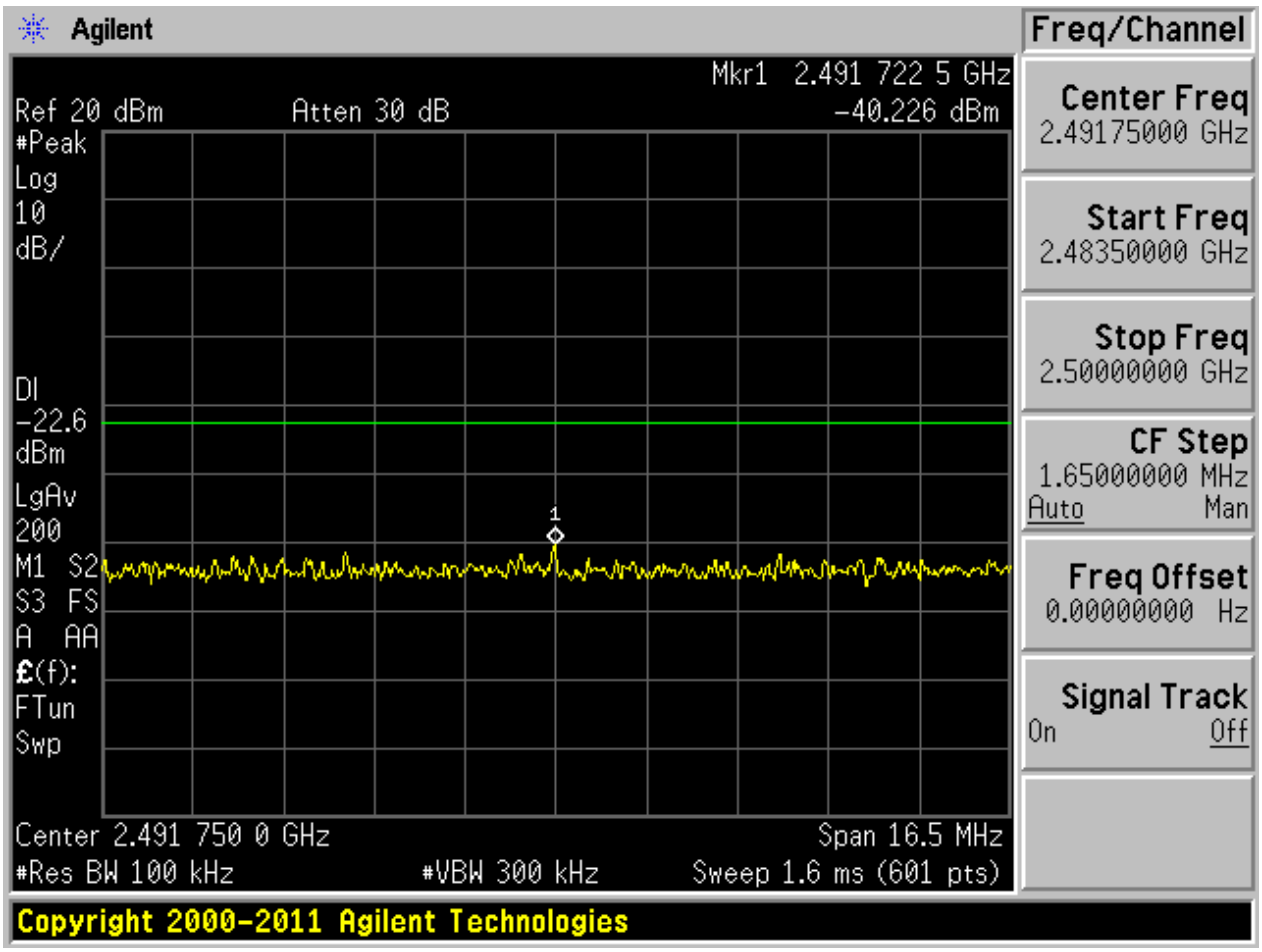

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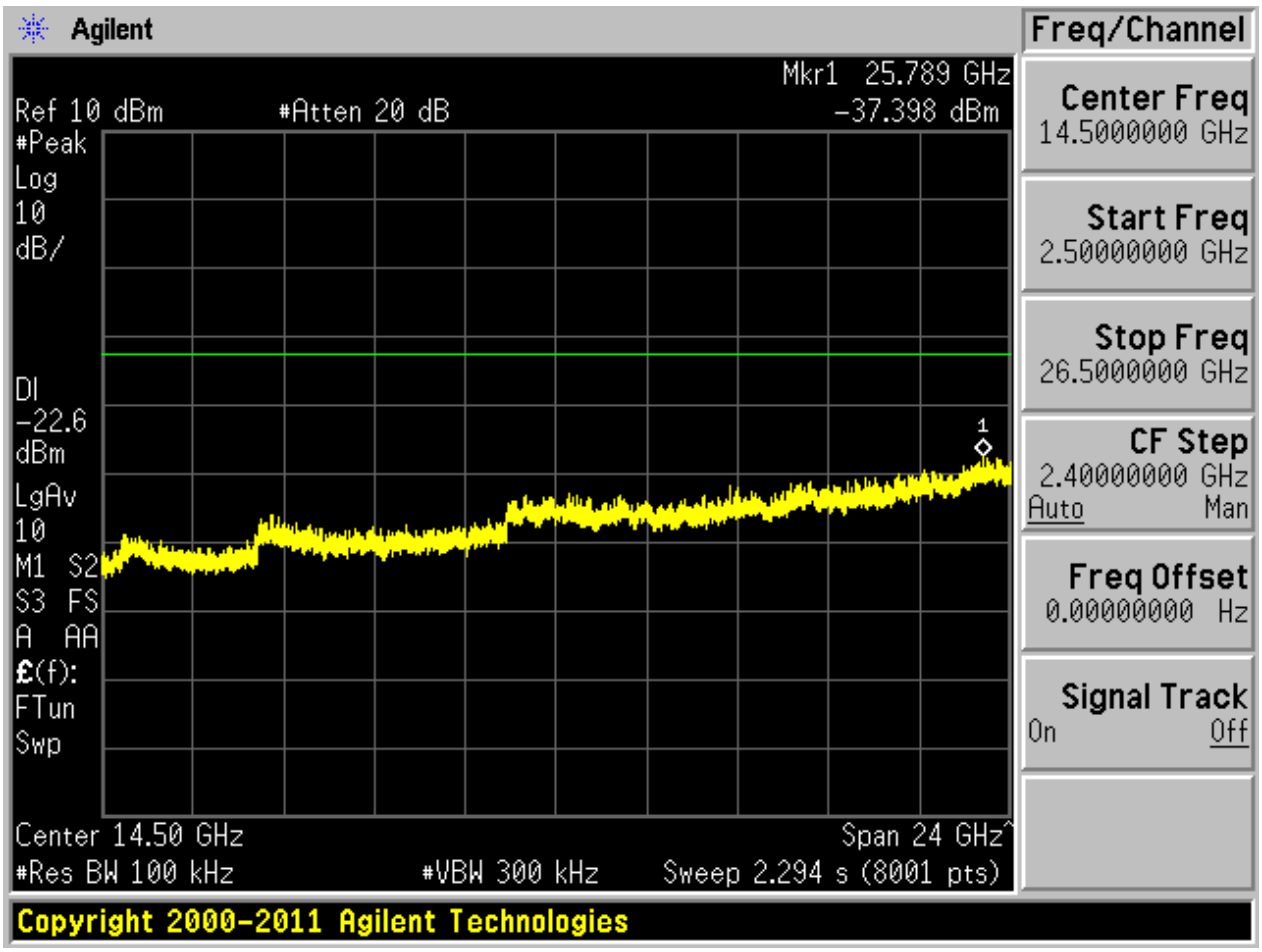

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2.11.1 Ant 1

2.11.1.1 Pref

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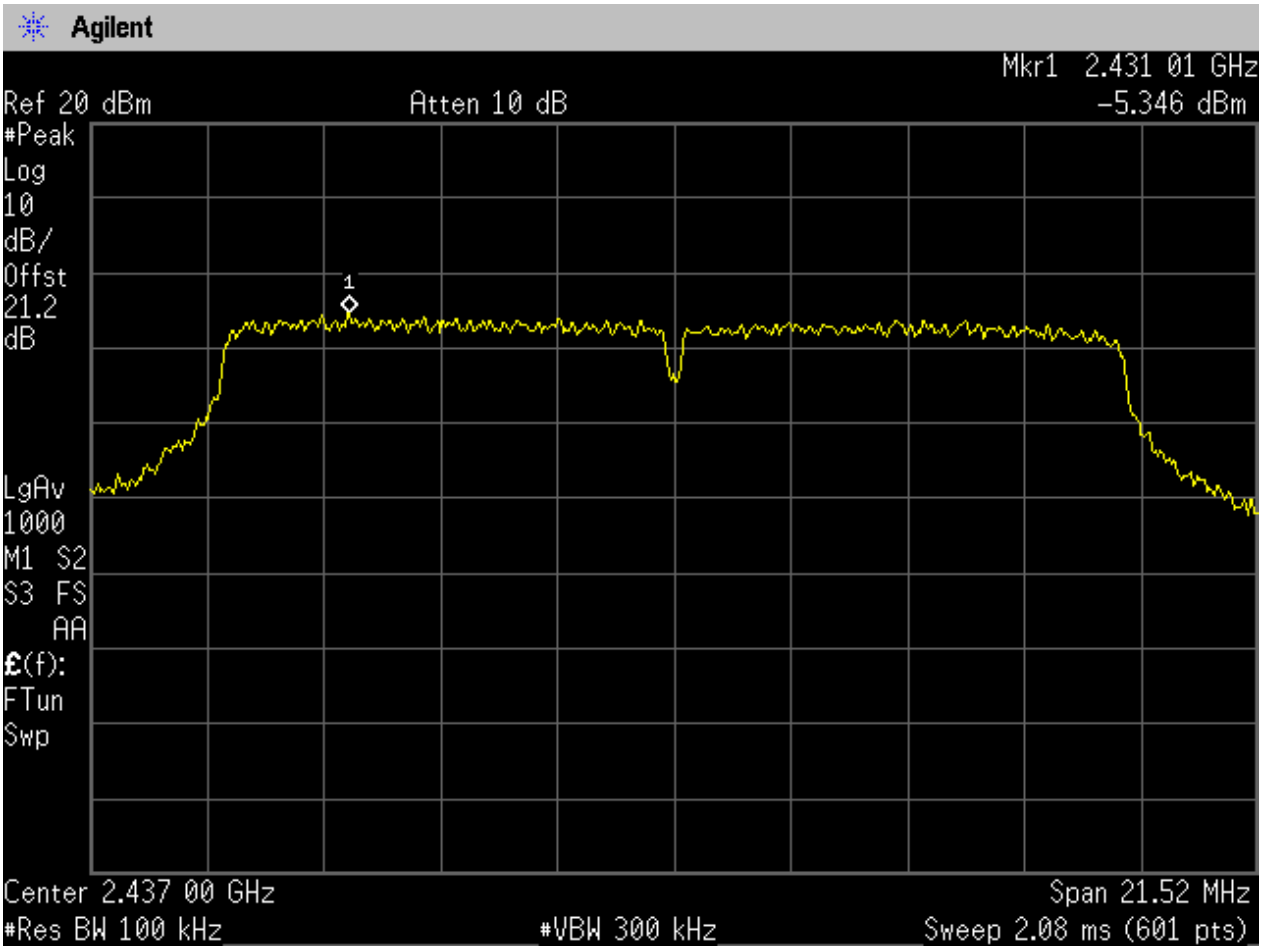

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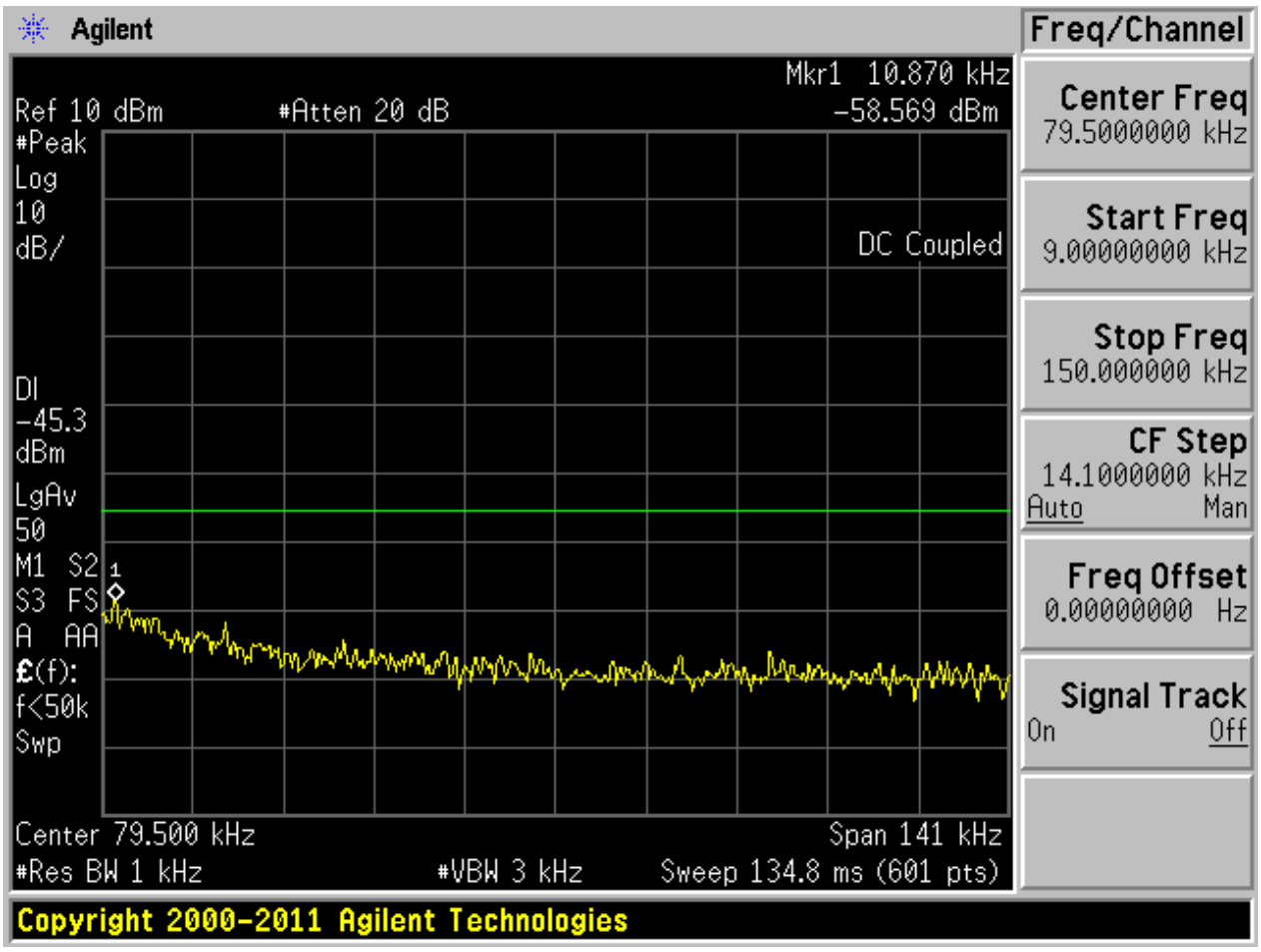

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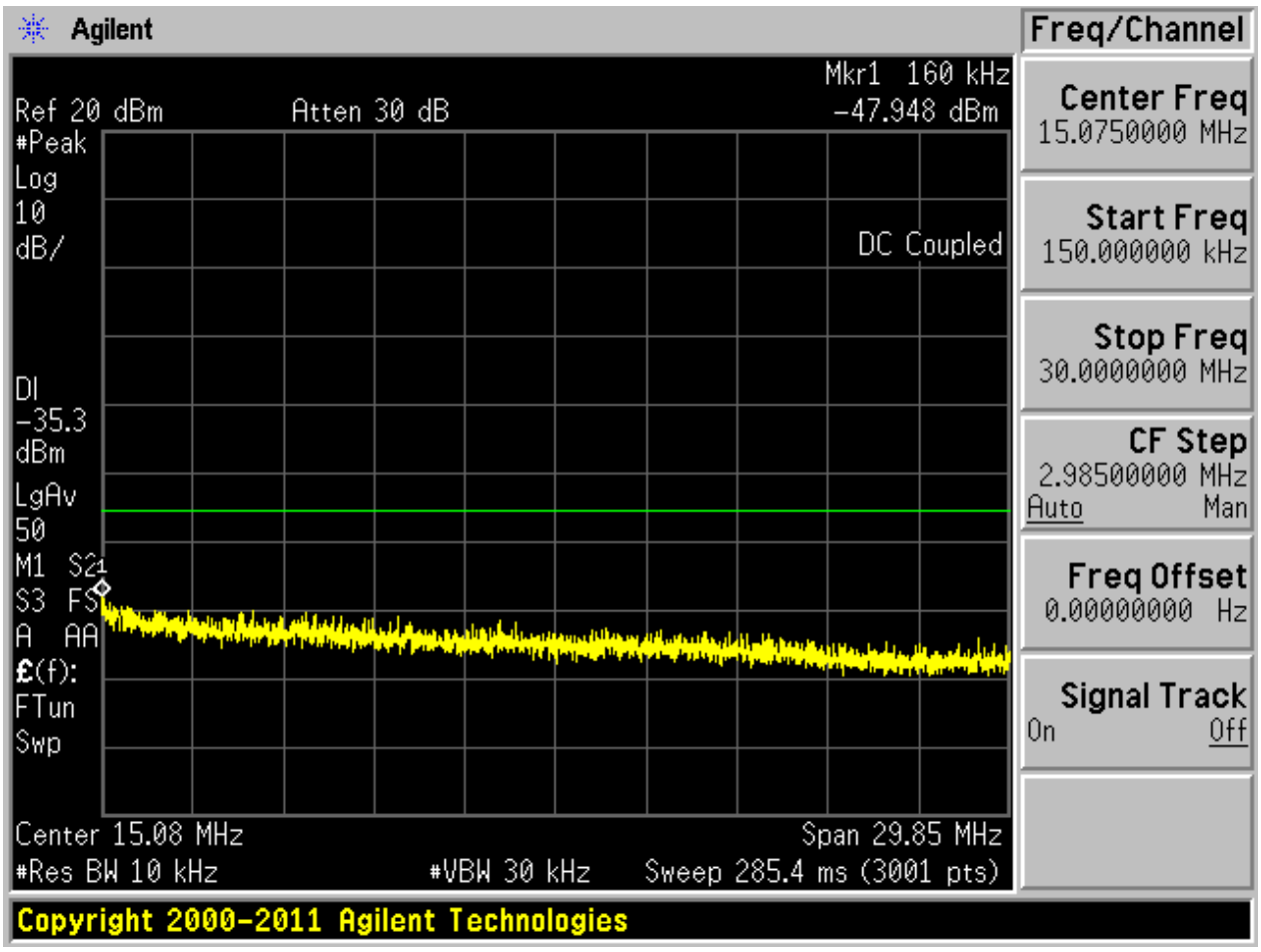

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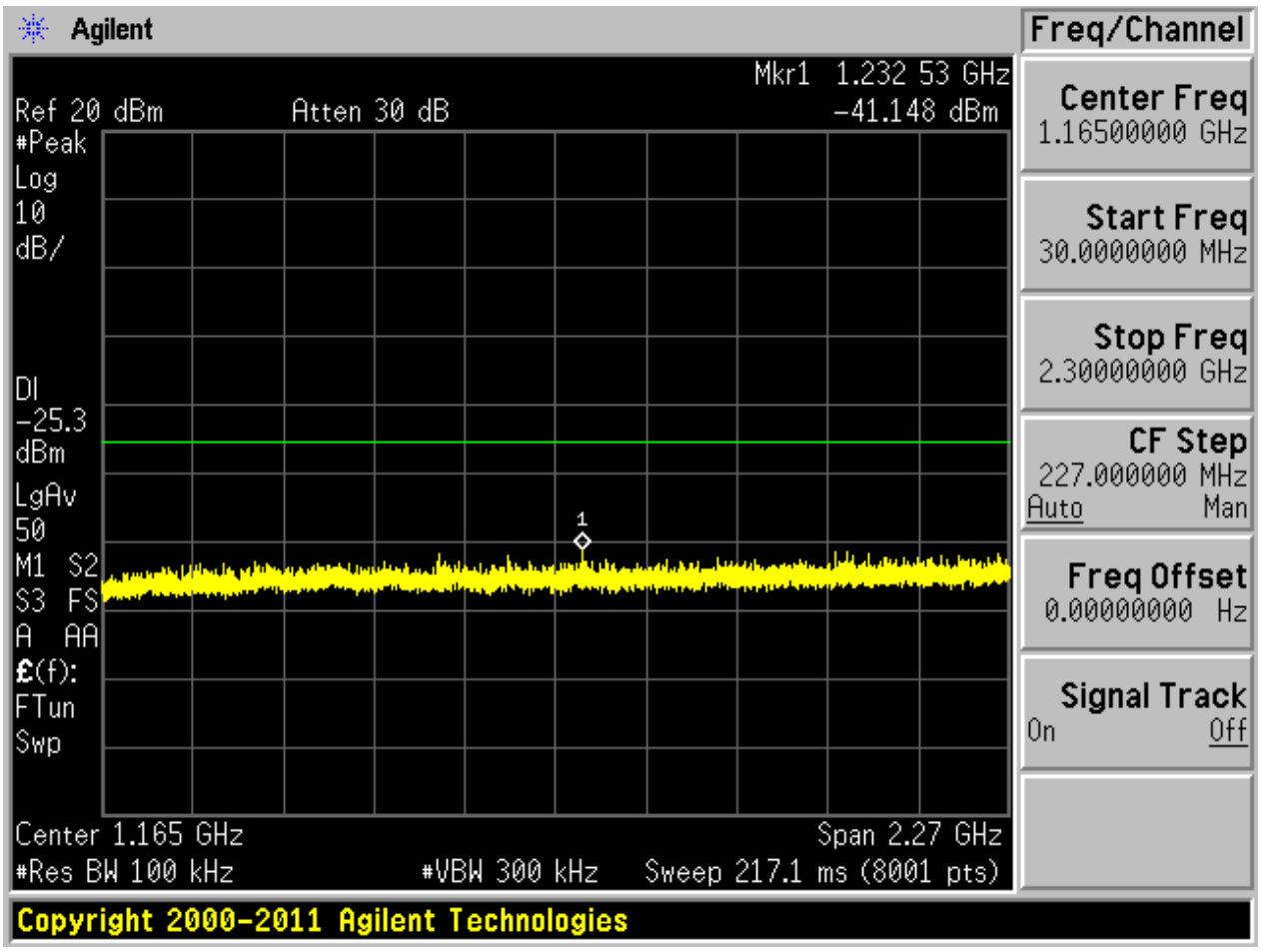

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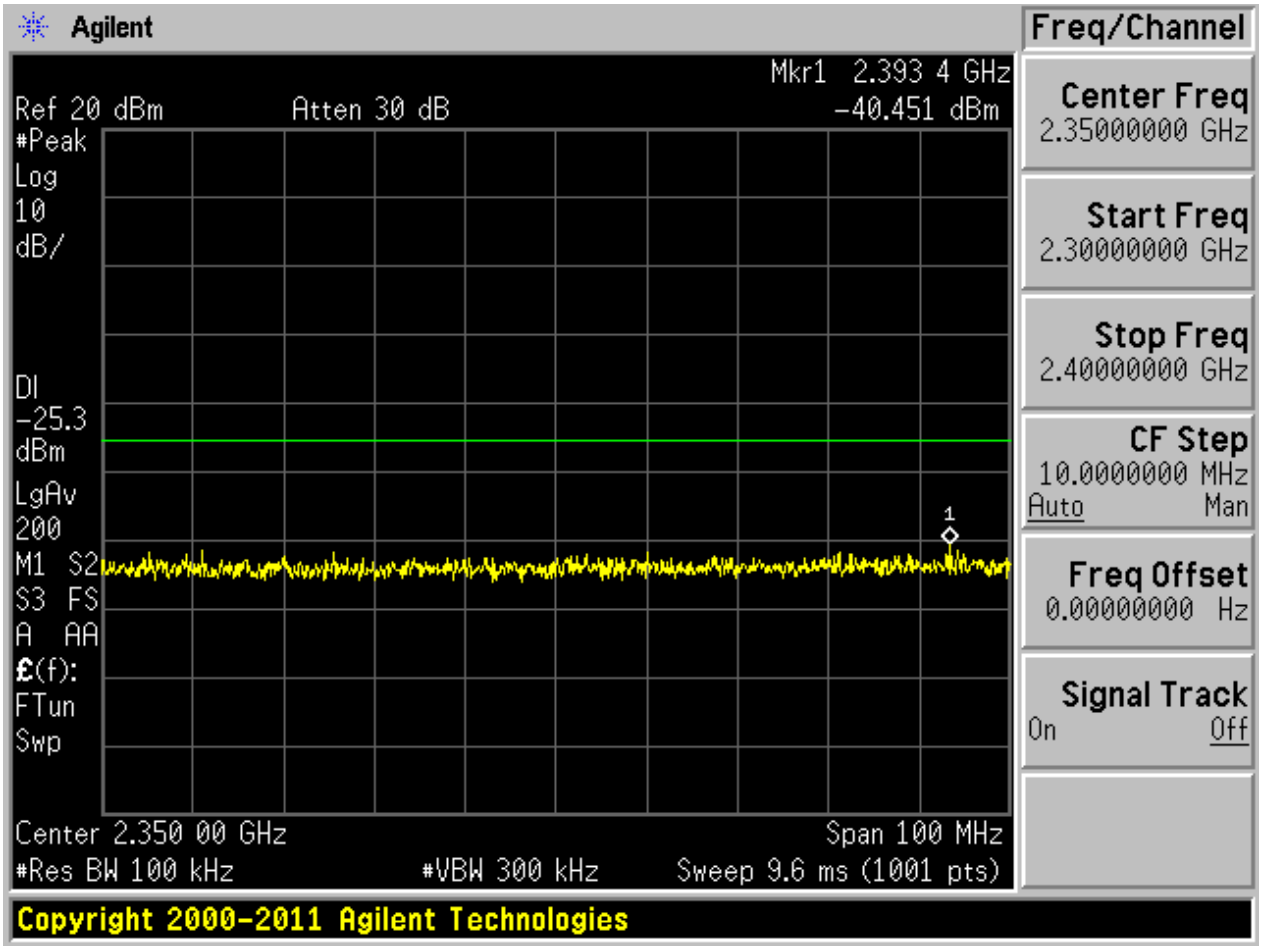

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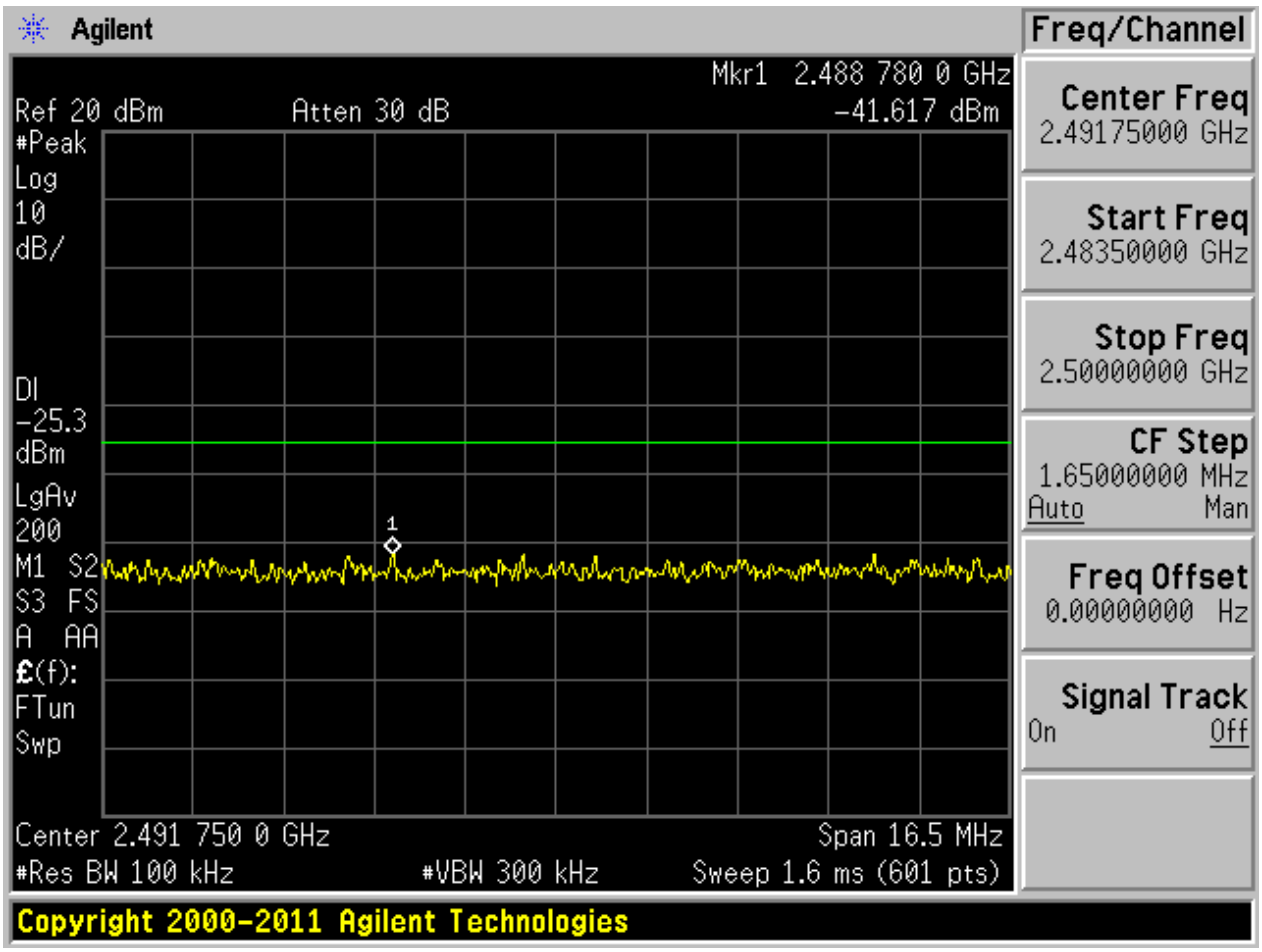

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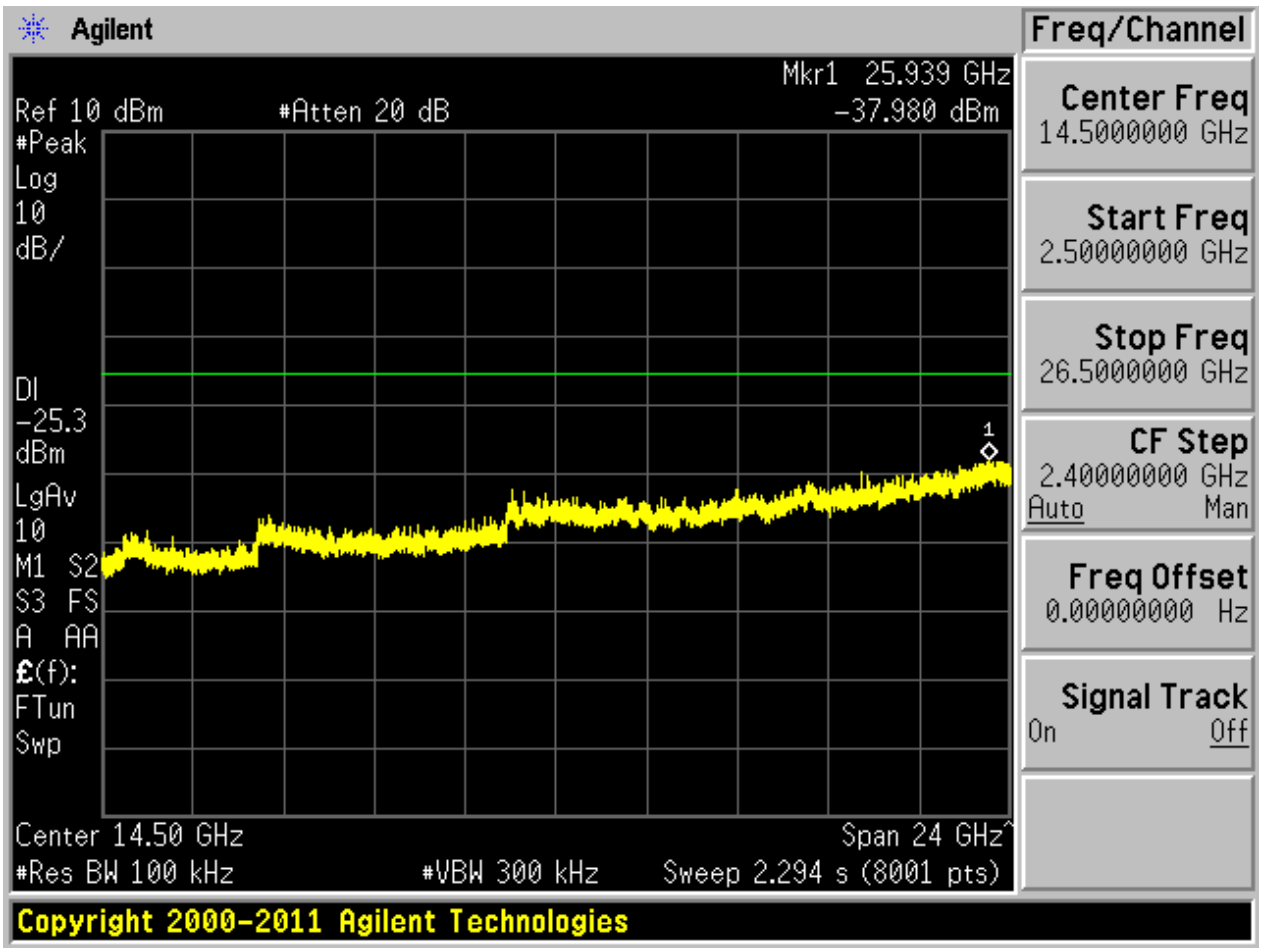

2.11.2 Ant 2

2.11.2.1 Pref

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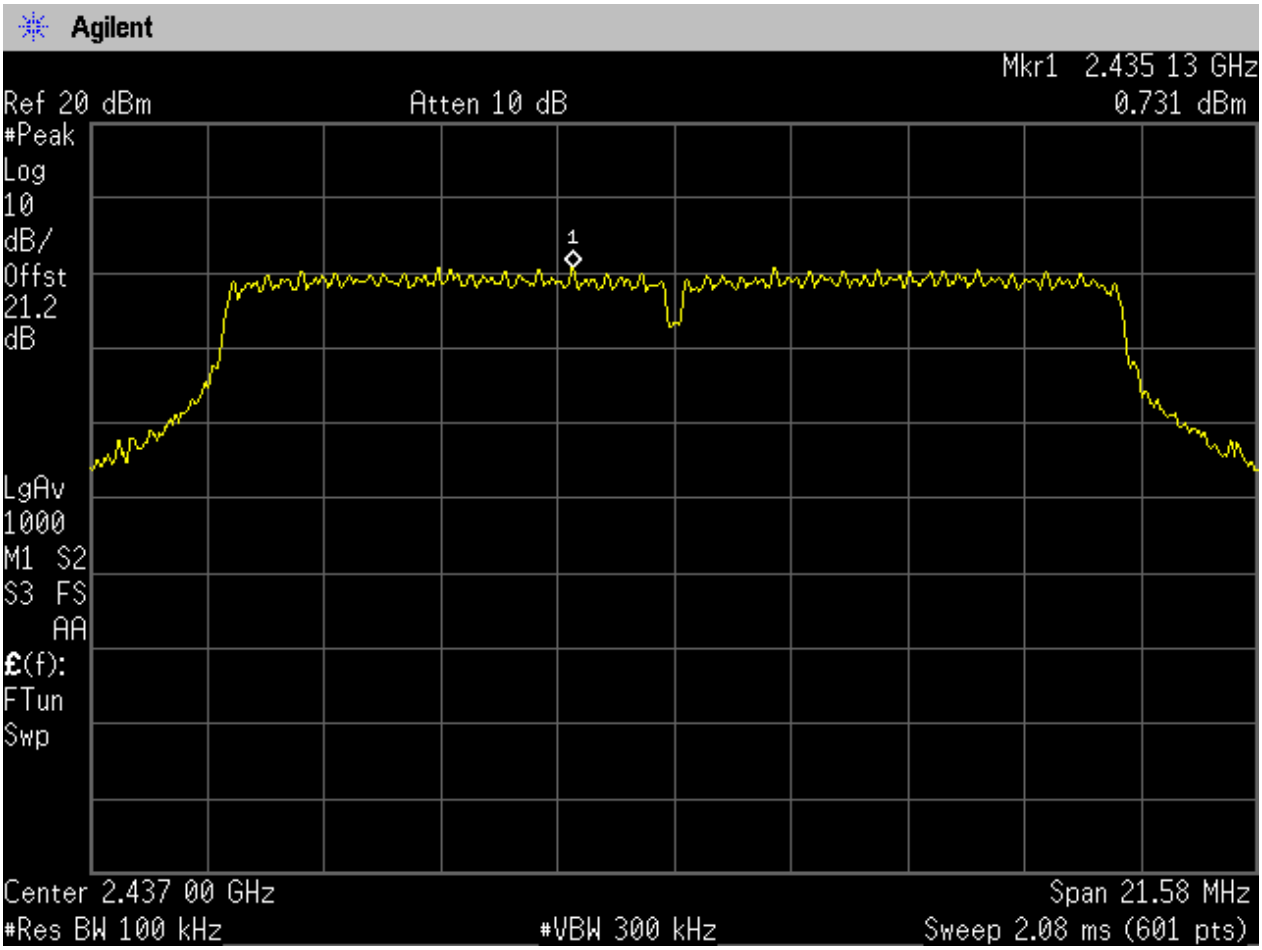

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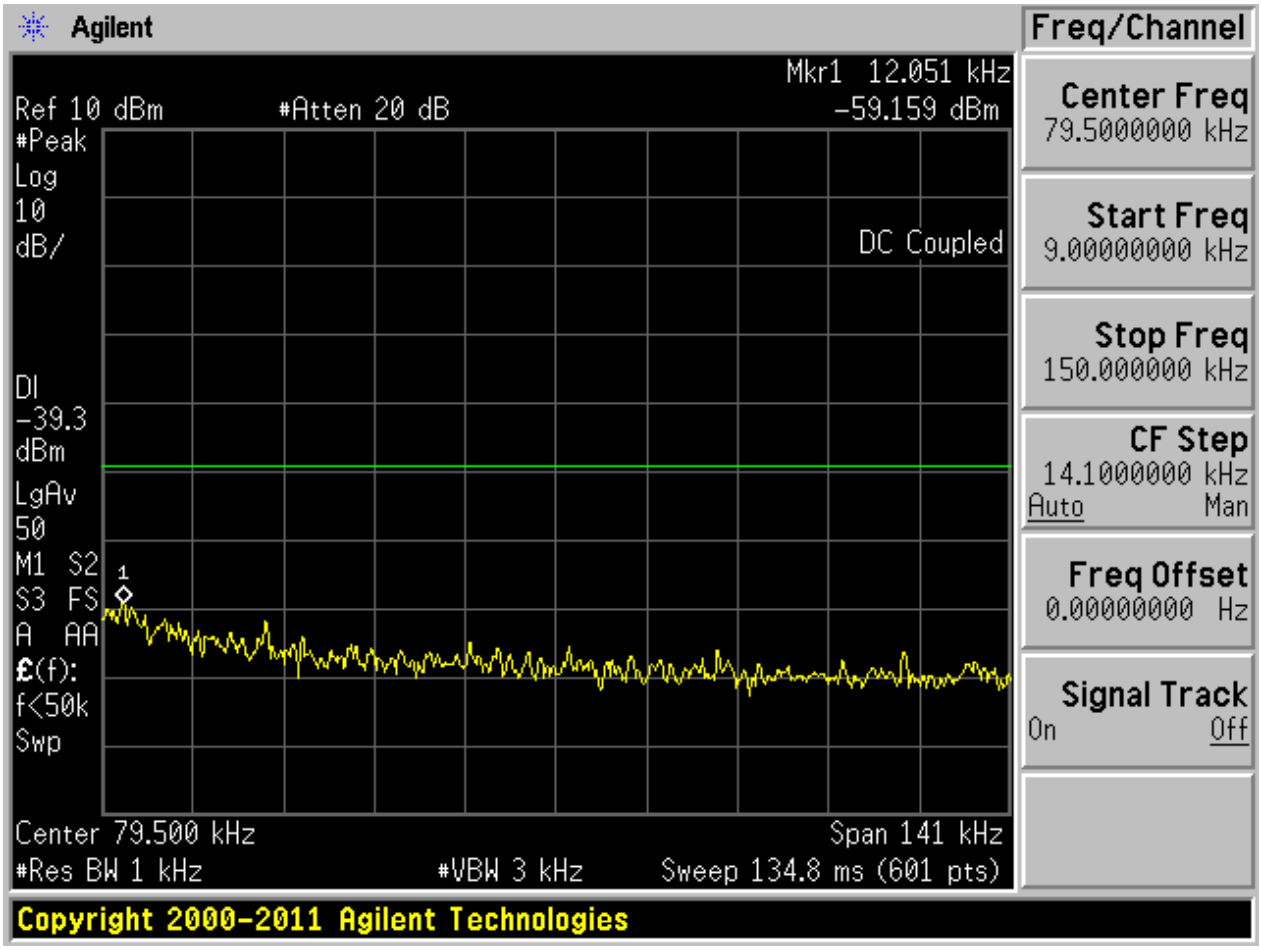

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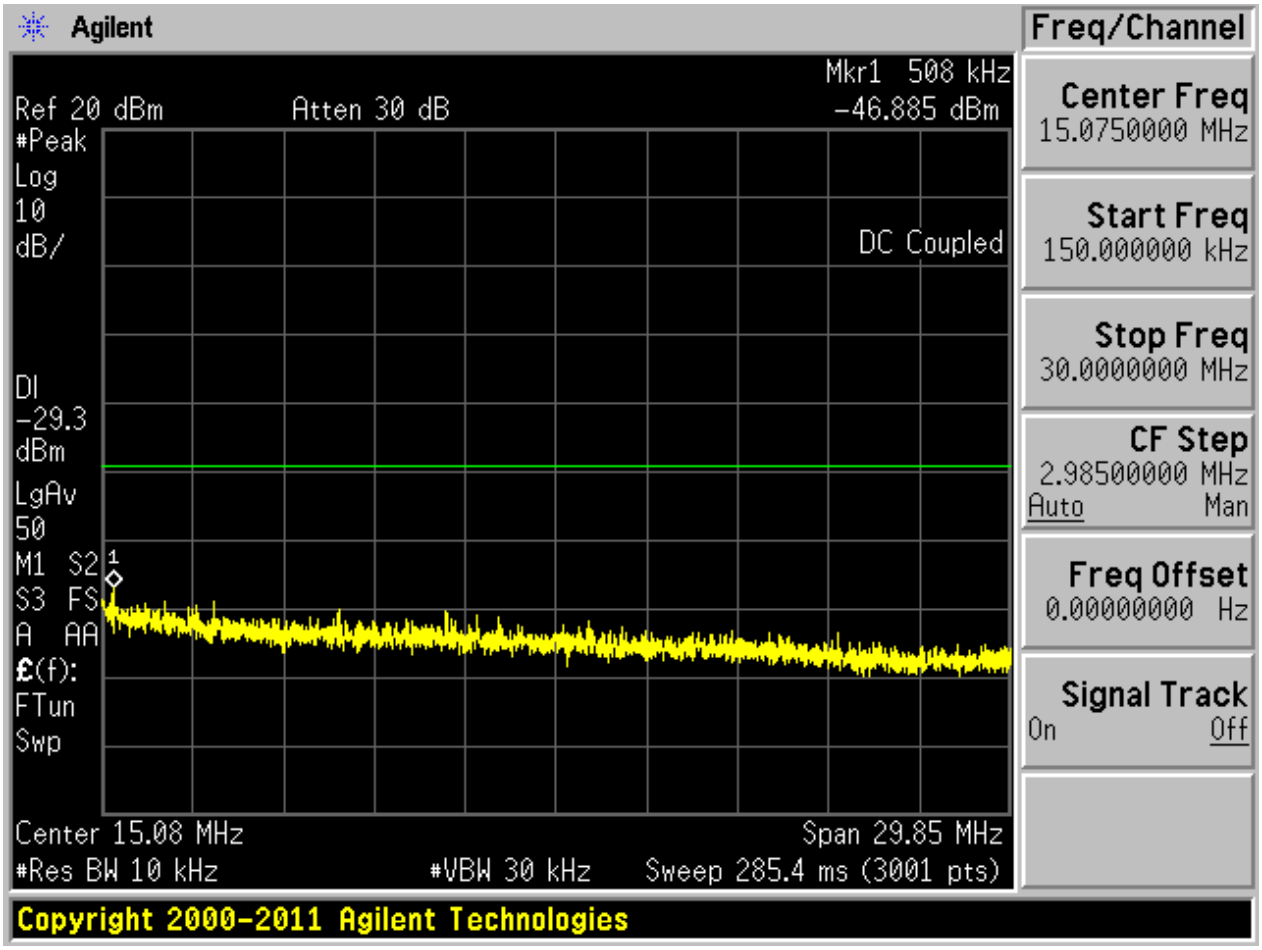

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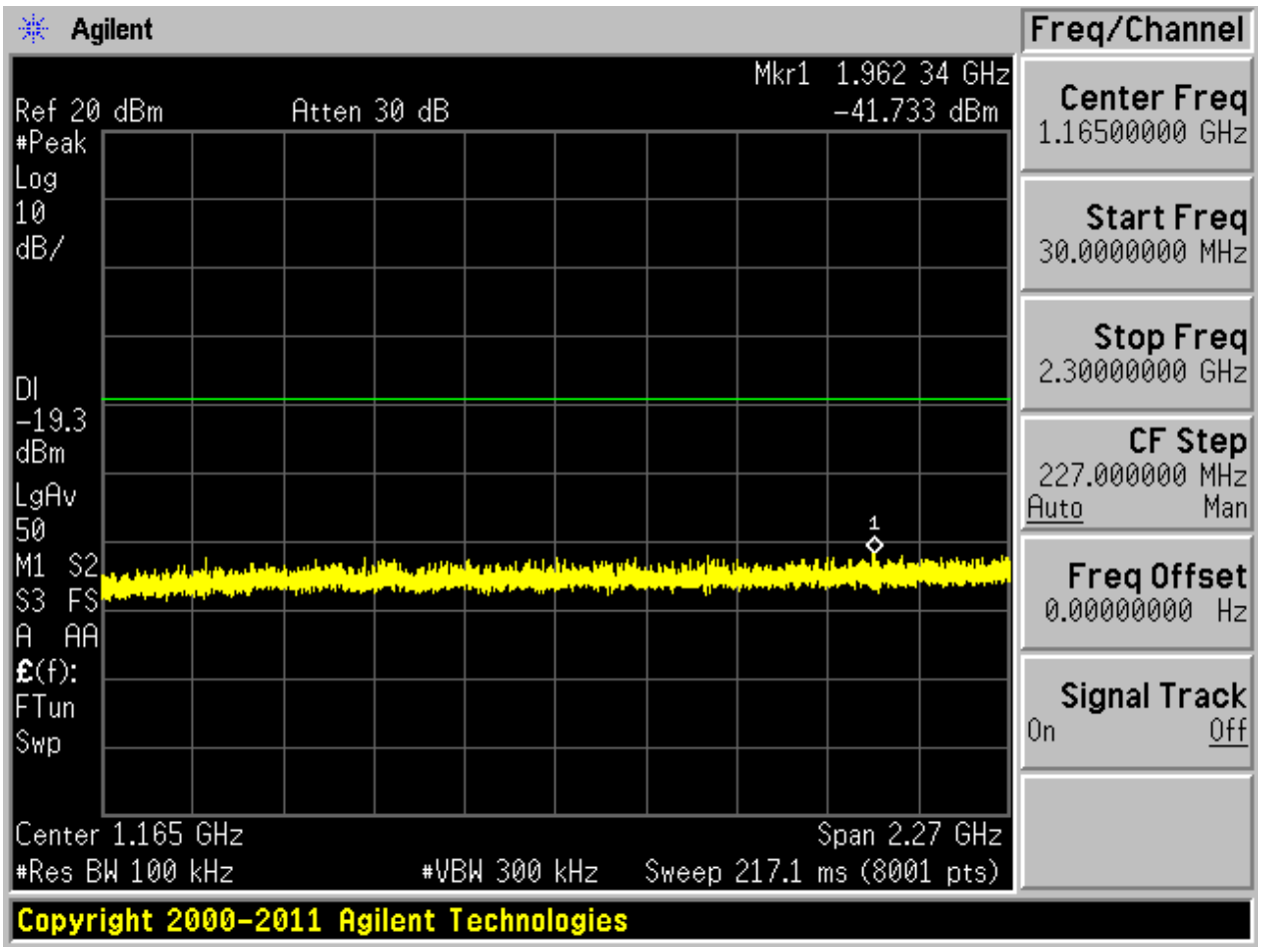

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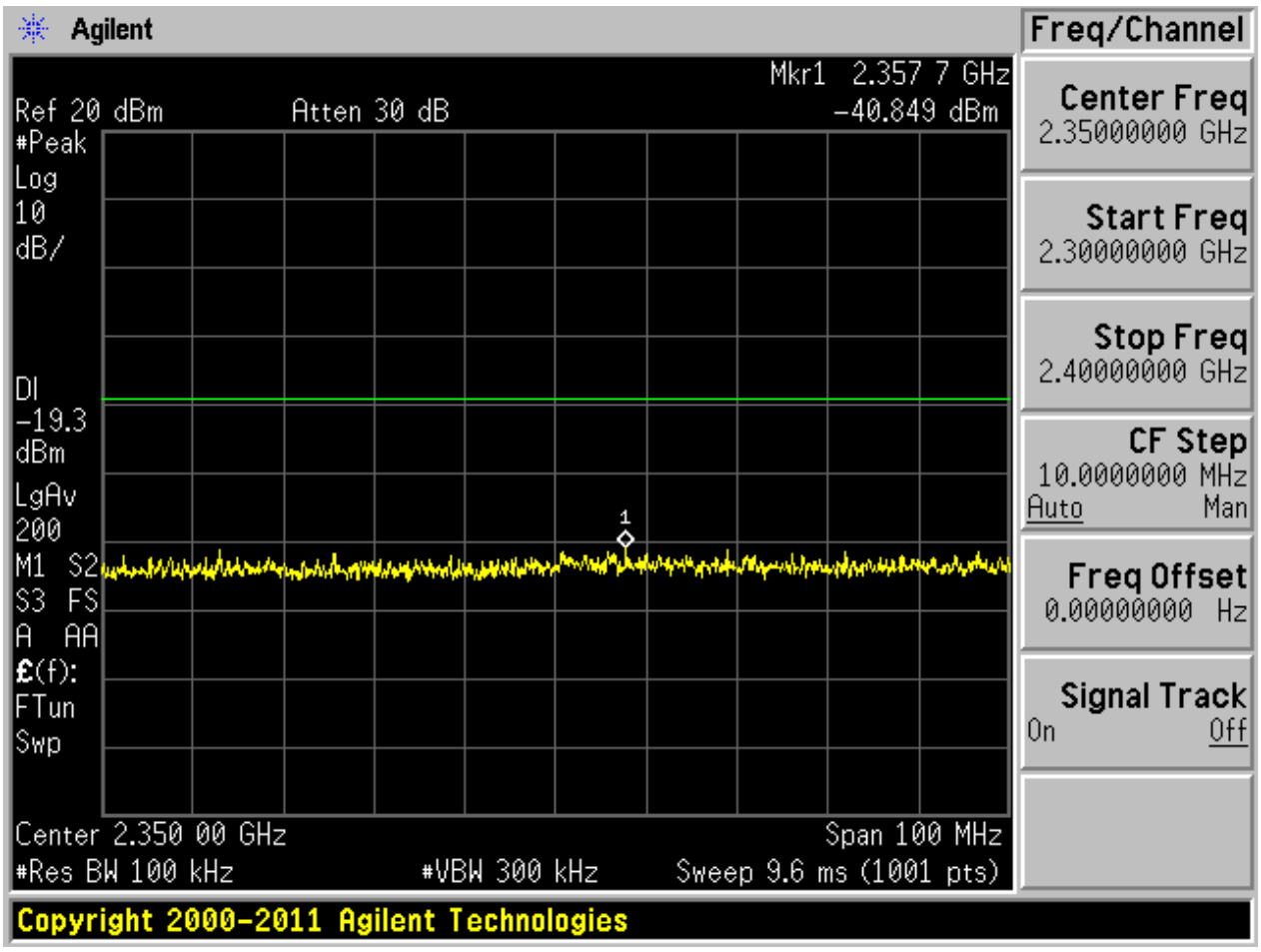

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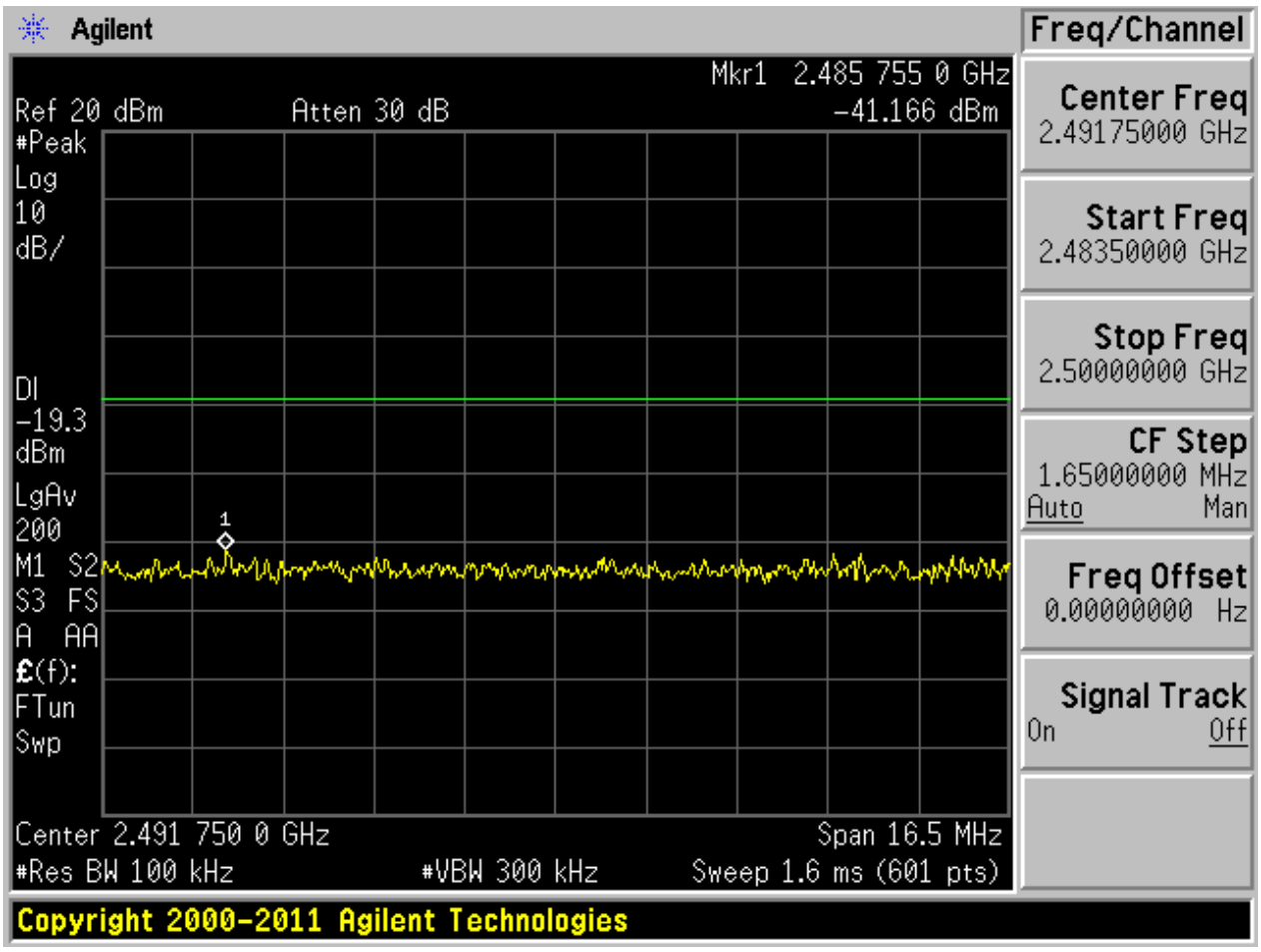

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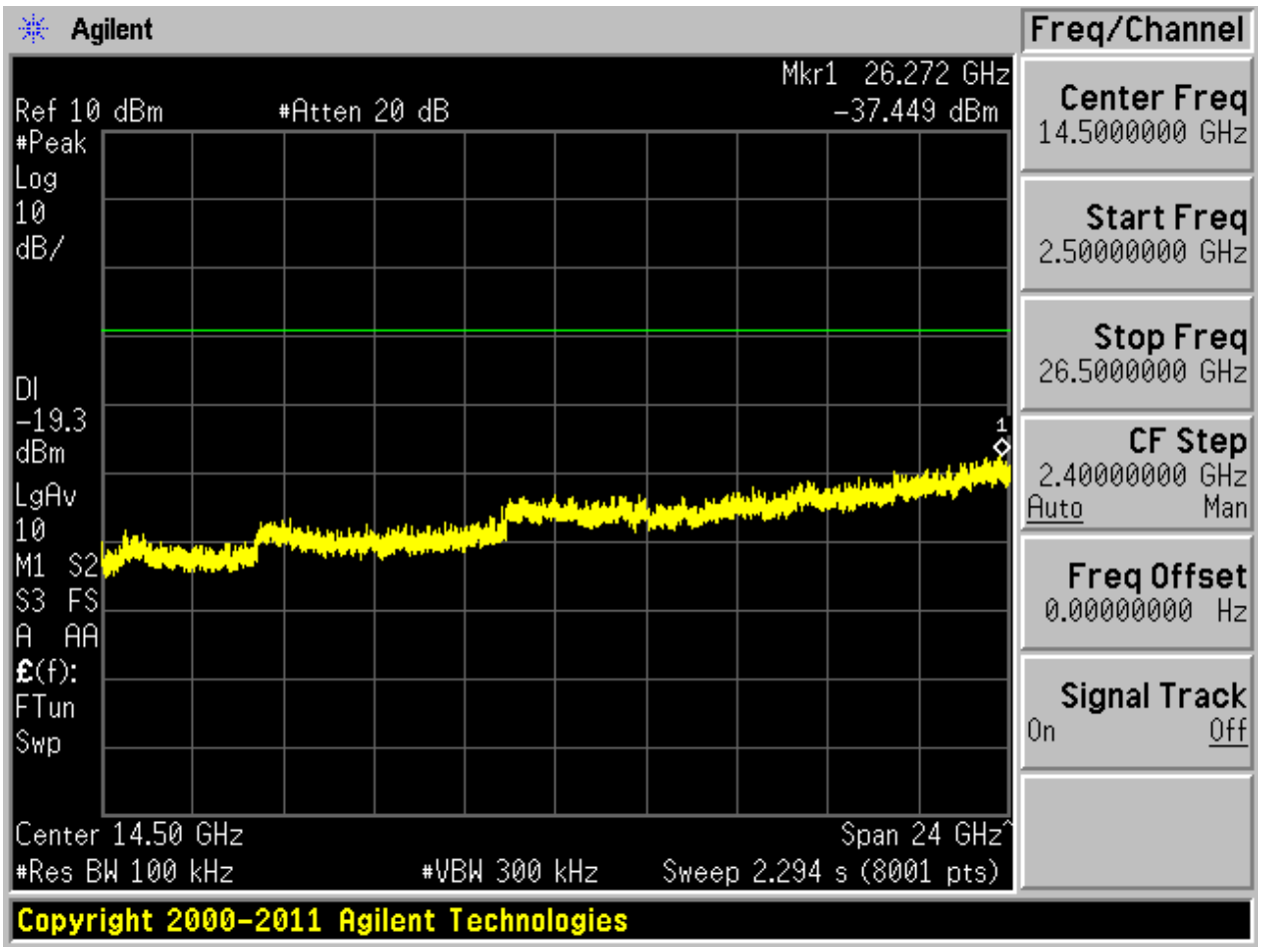

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2.12.1 Ant 1

2.12.1.1 Pref

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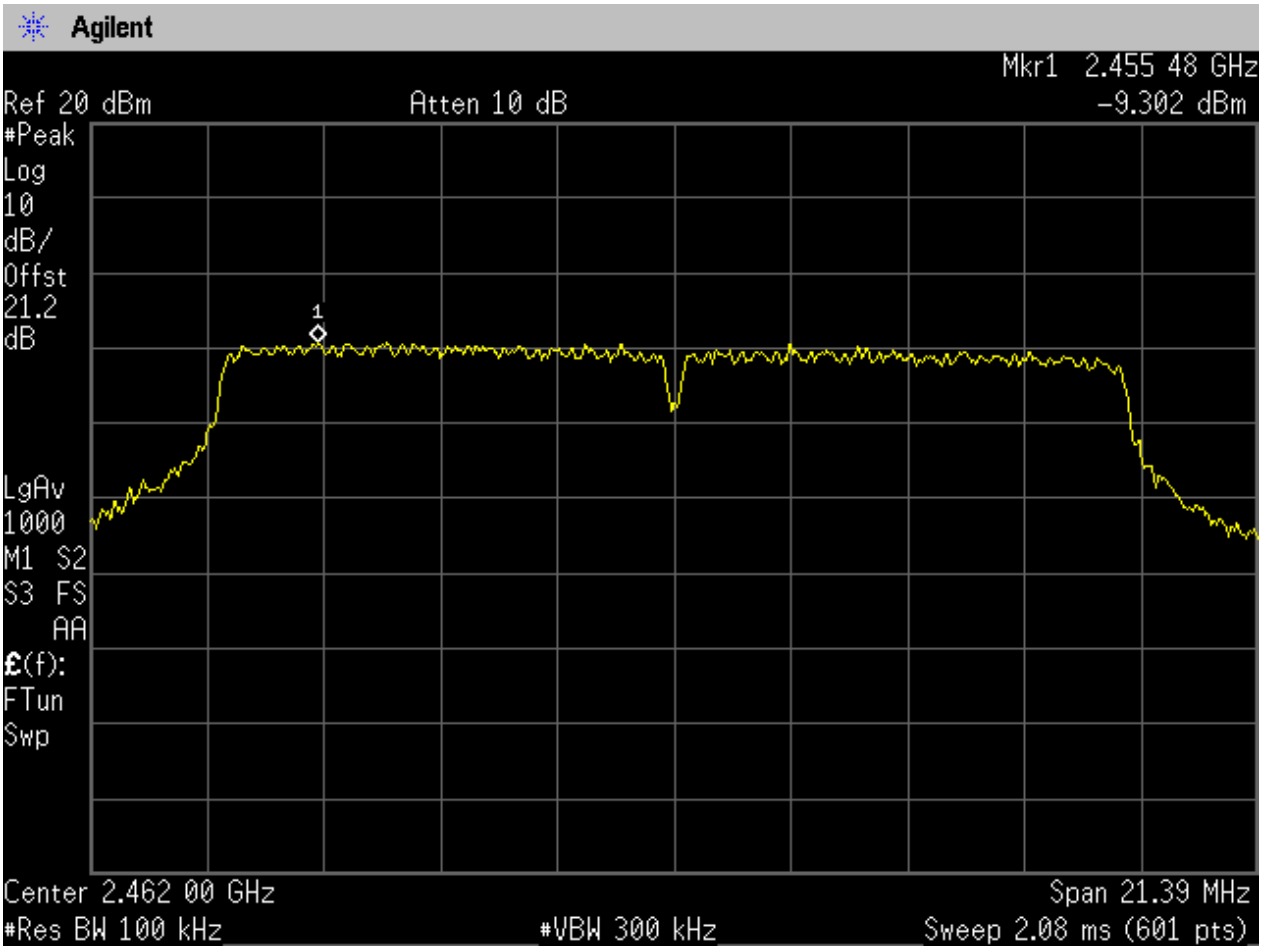

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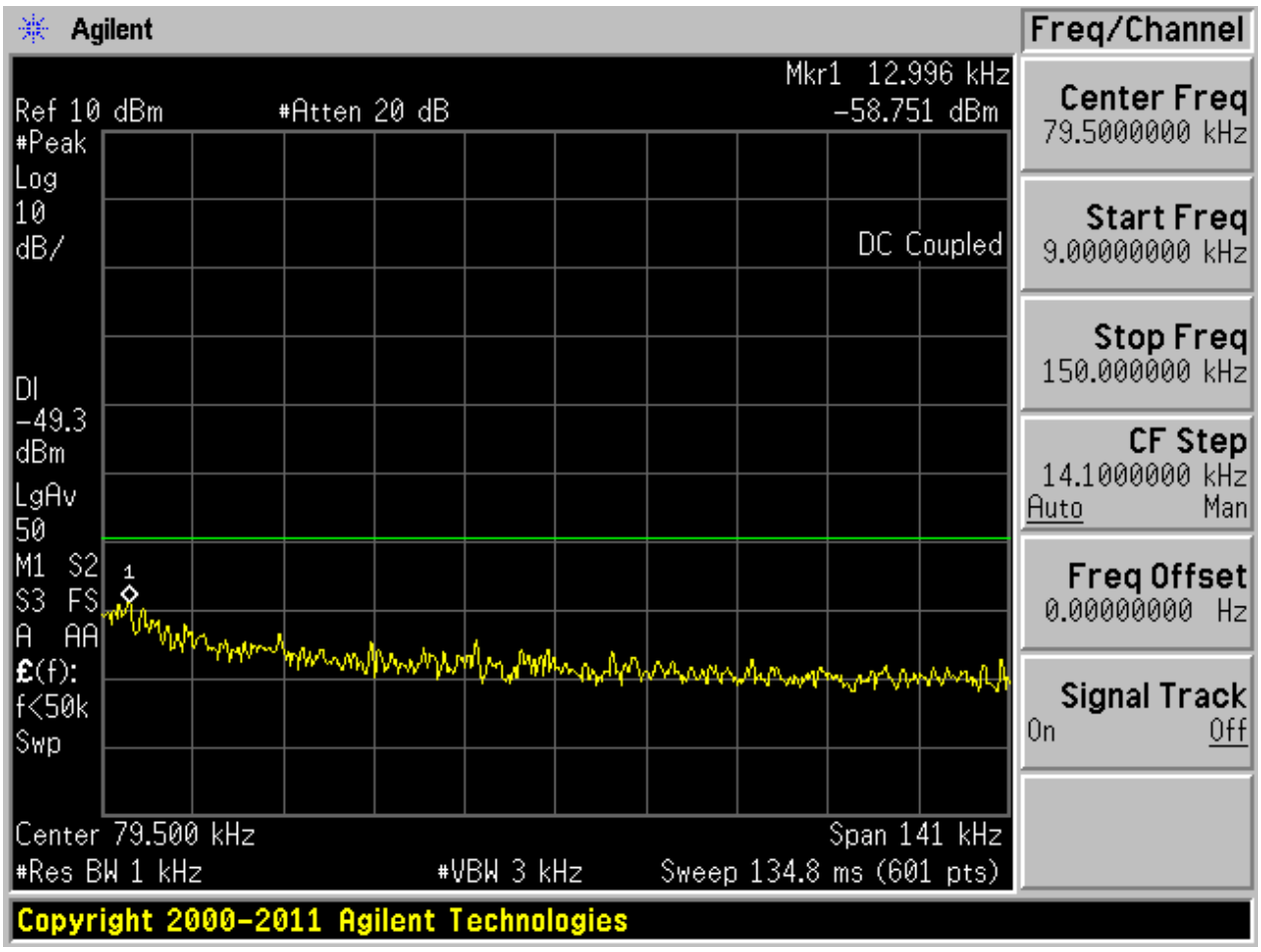

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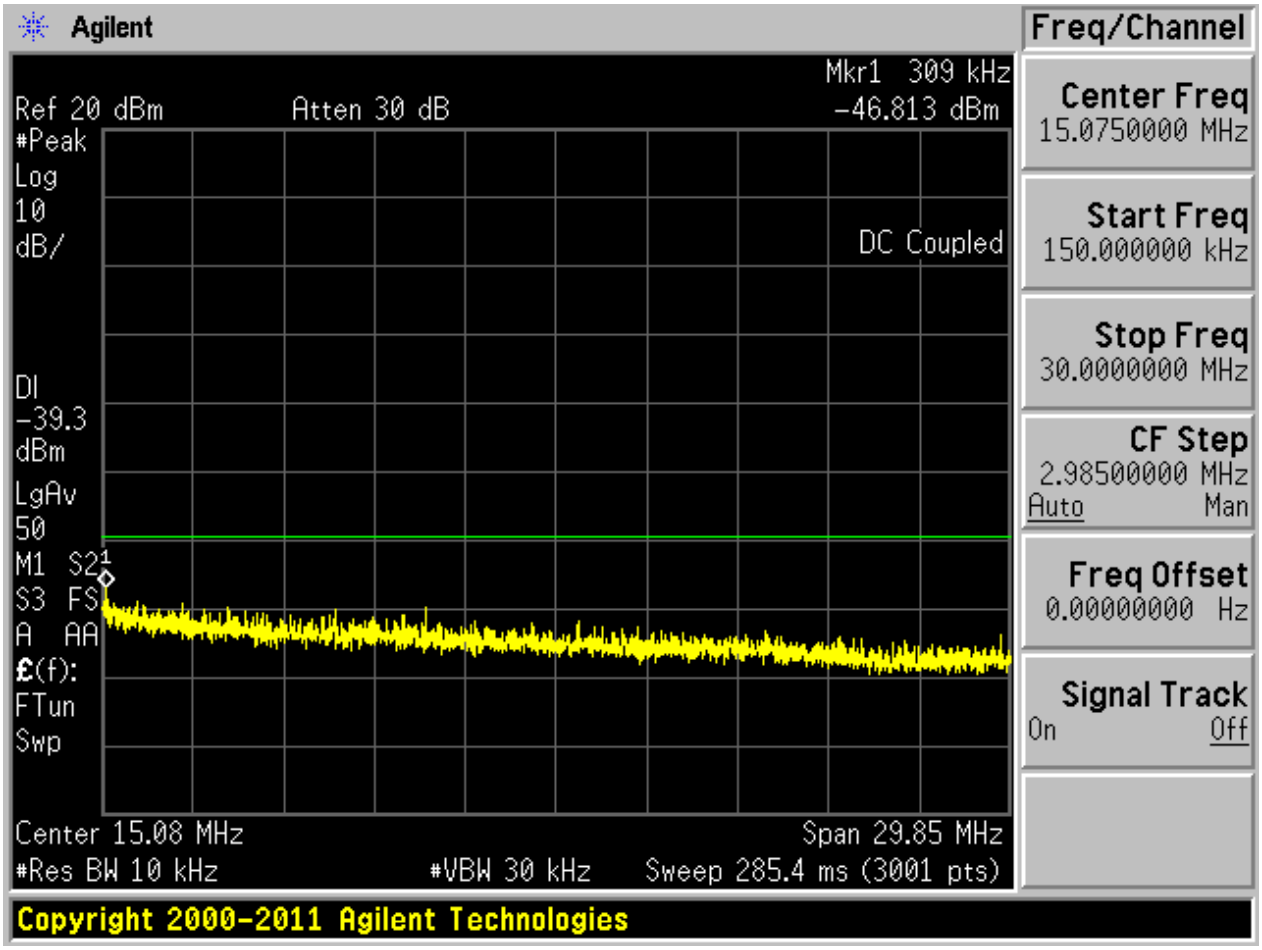

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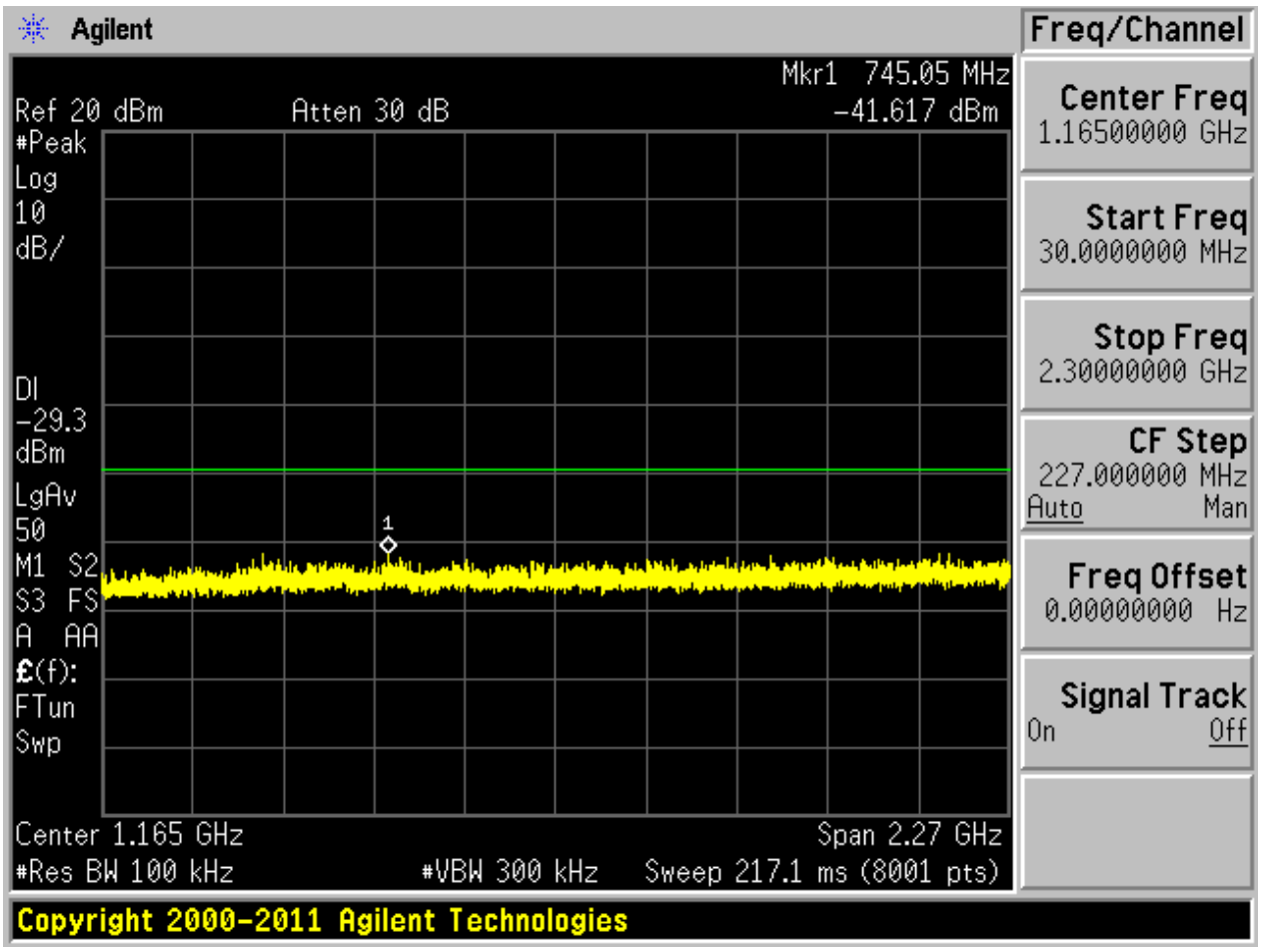

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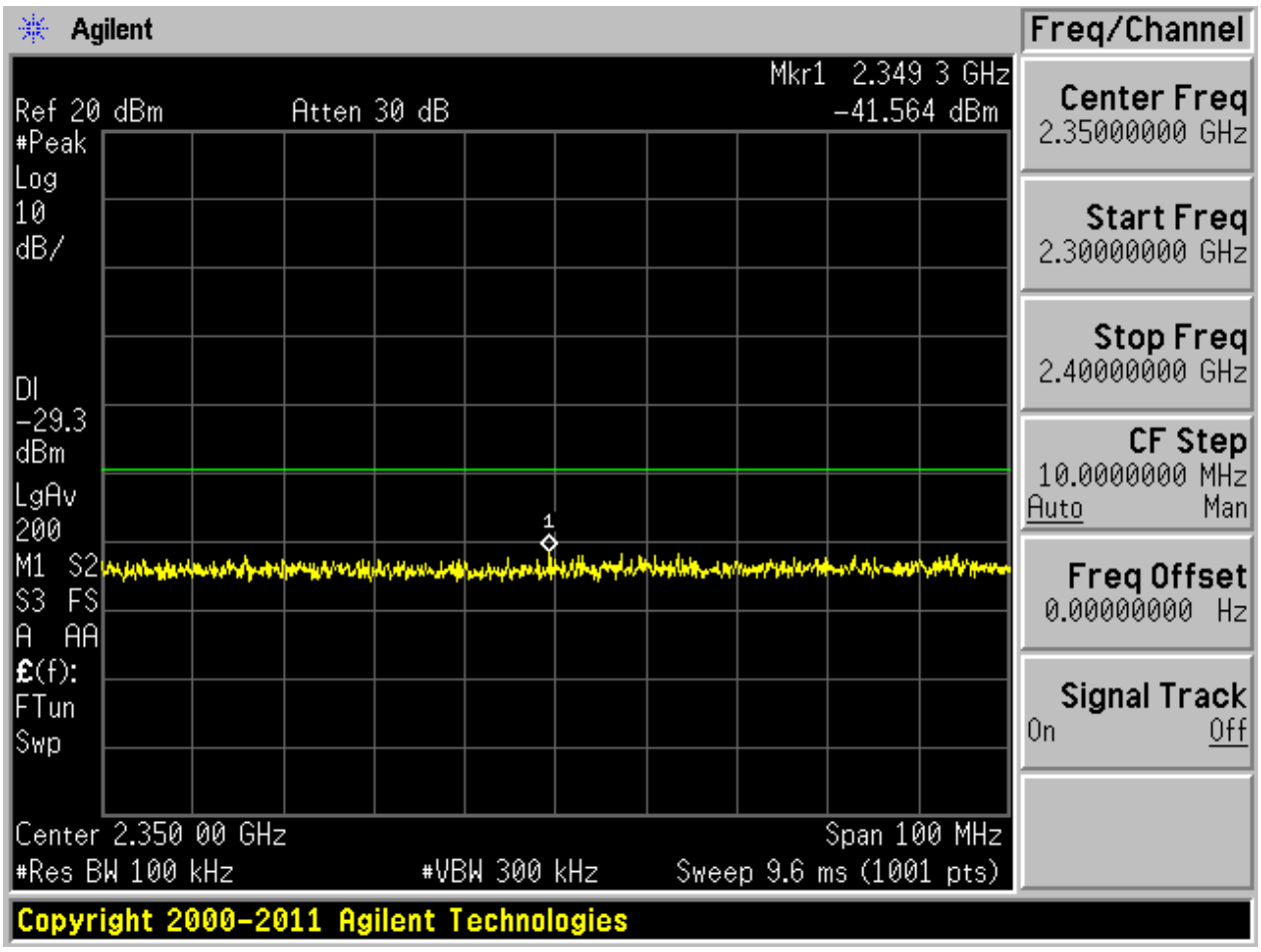

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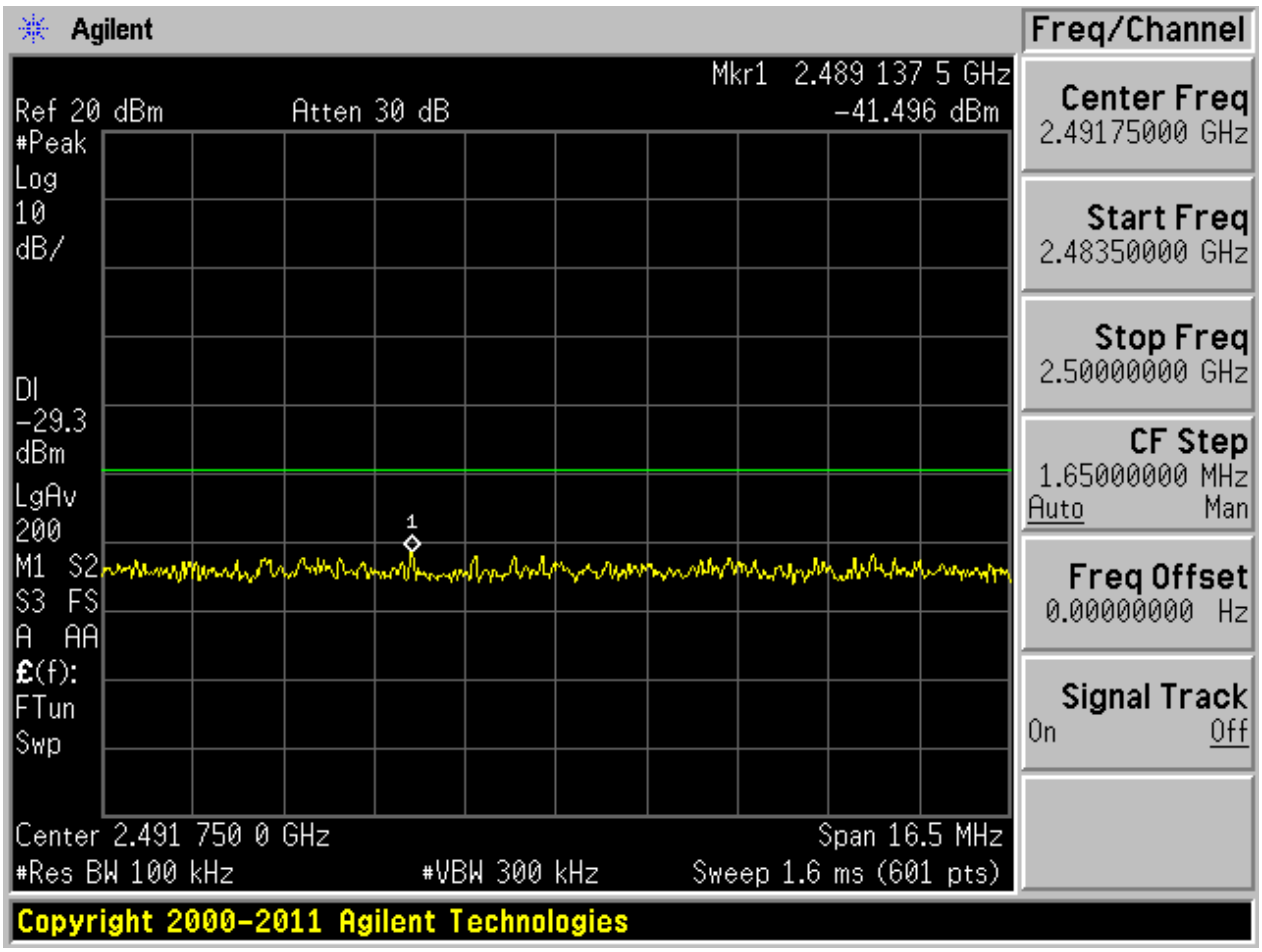

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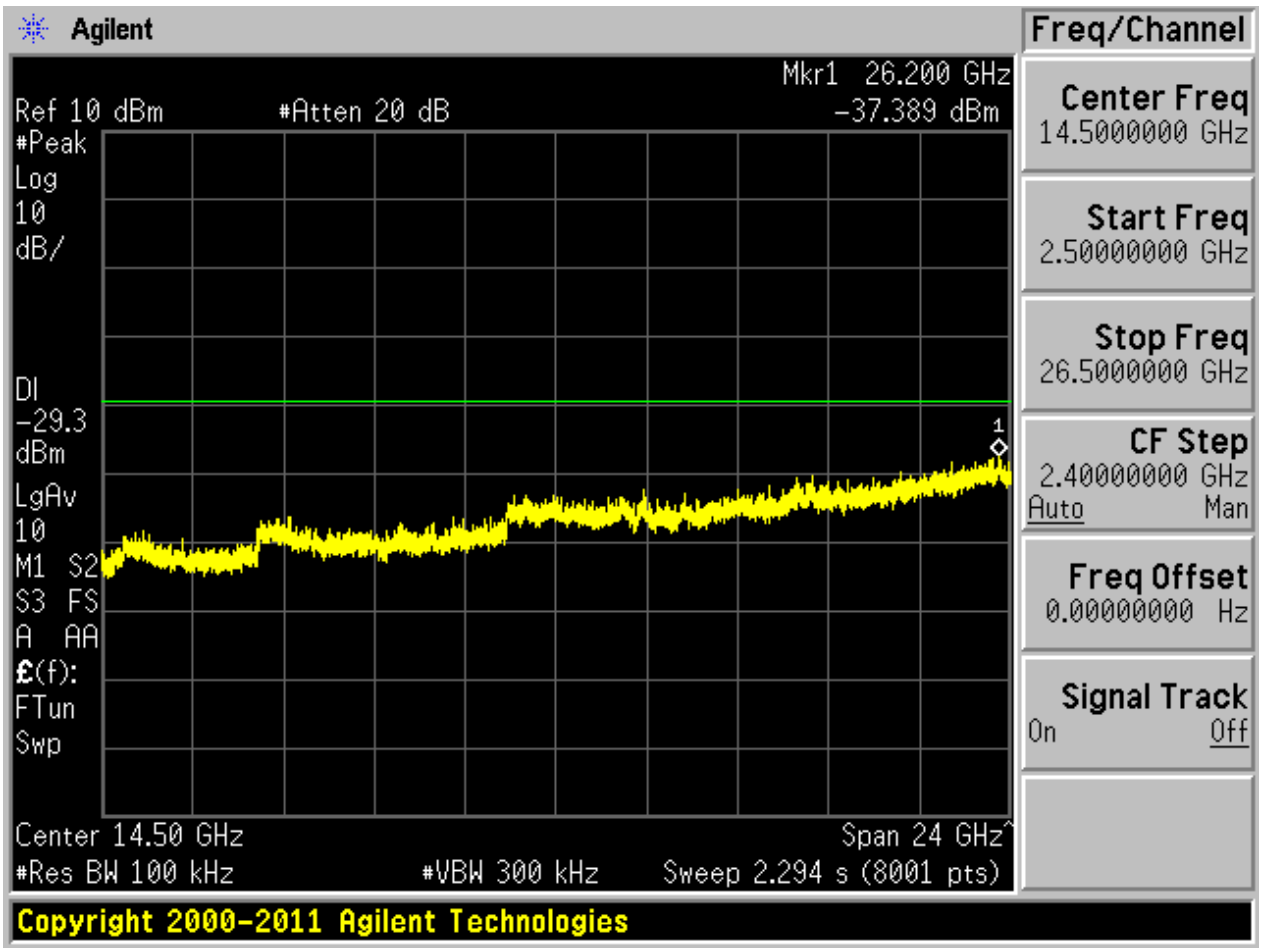

2.12.2 Ant 2

2.12.2.1 Pref

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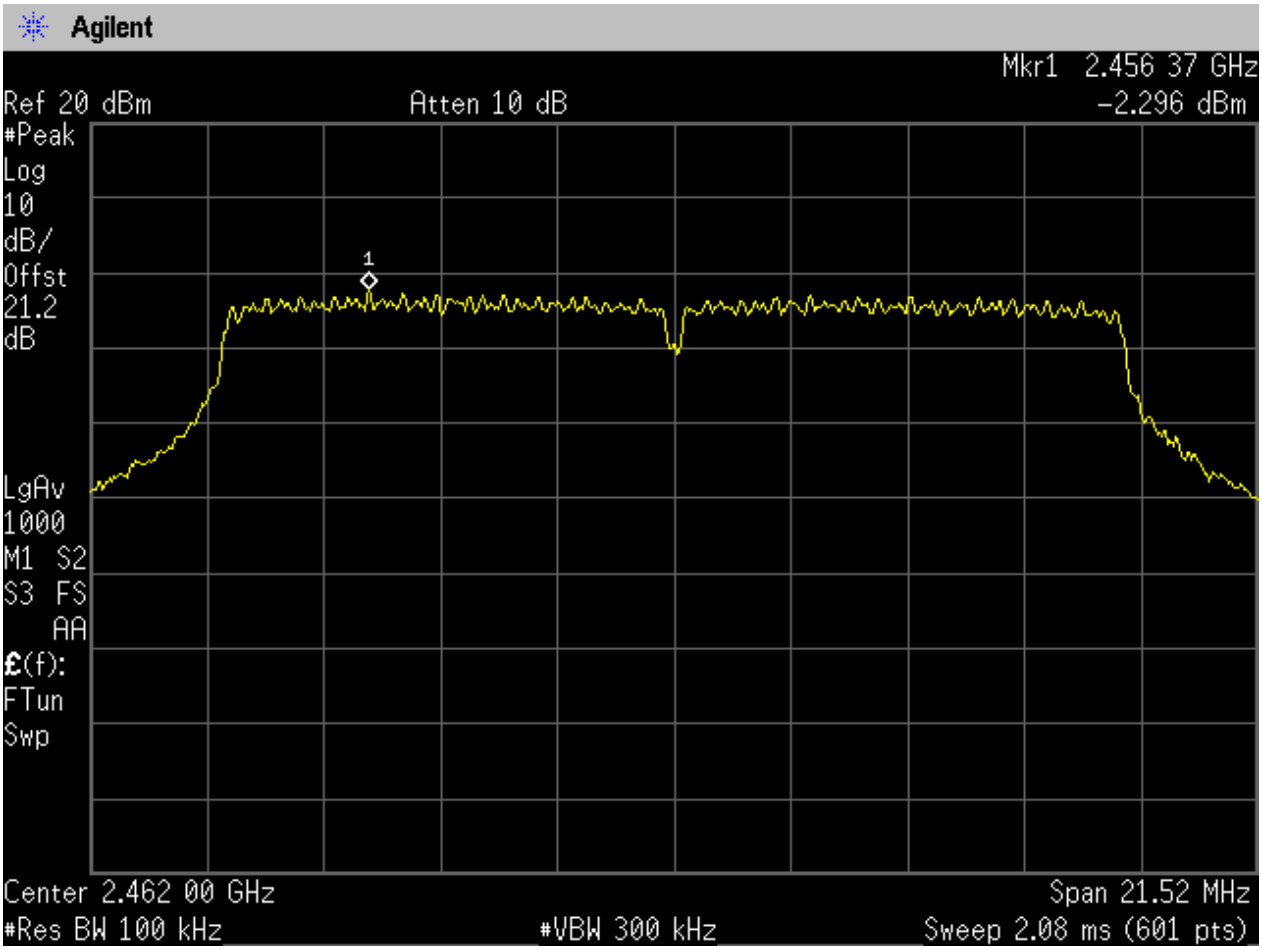

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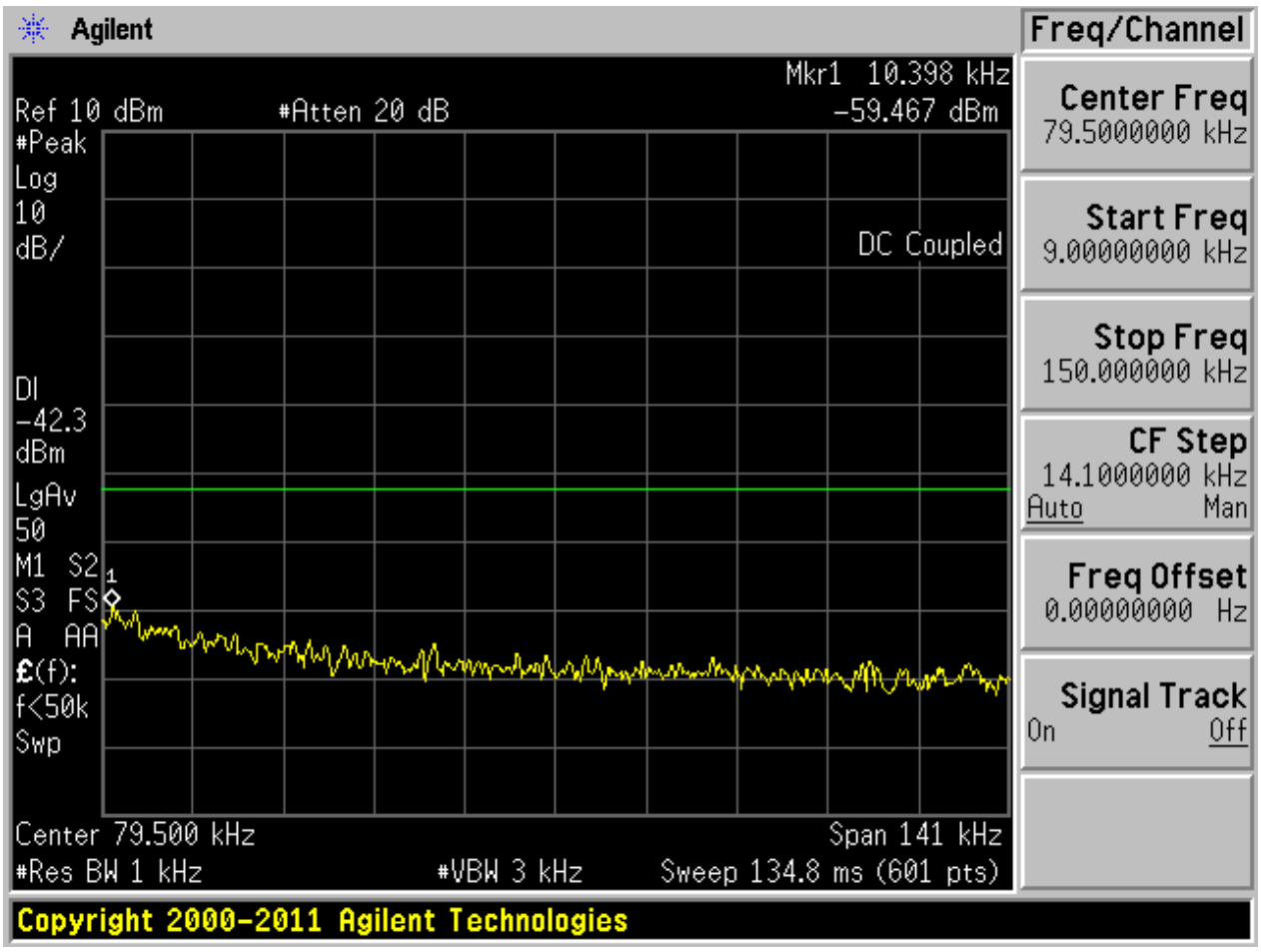

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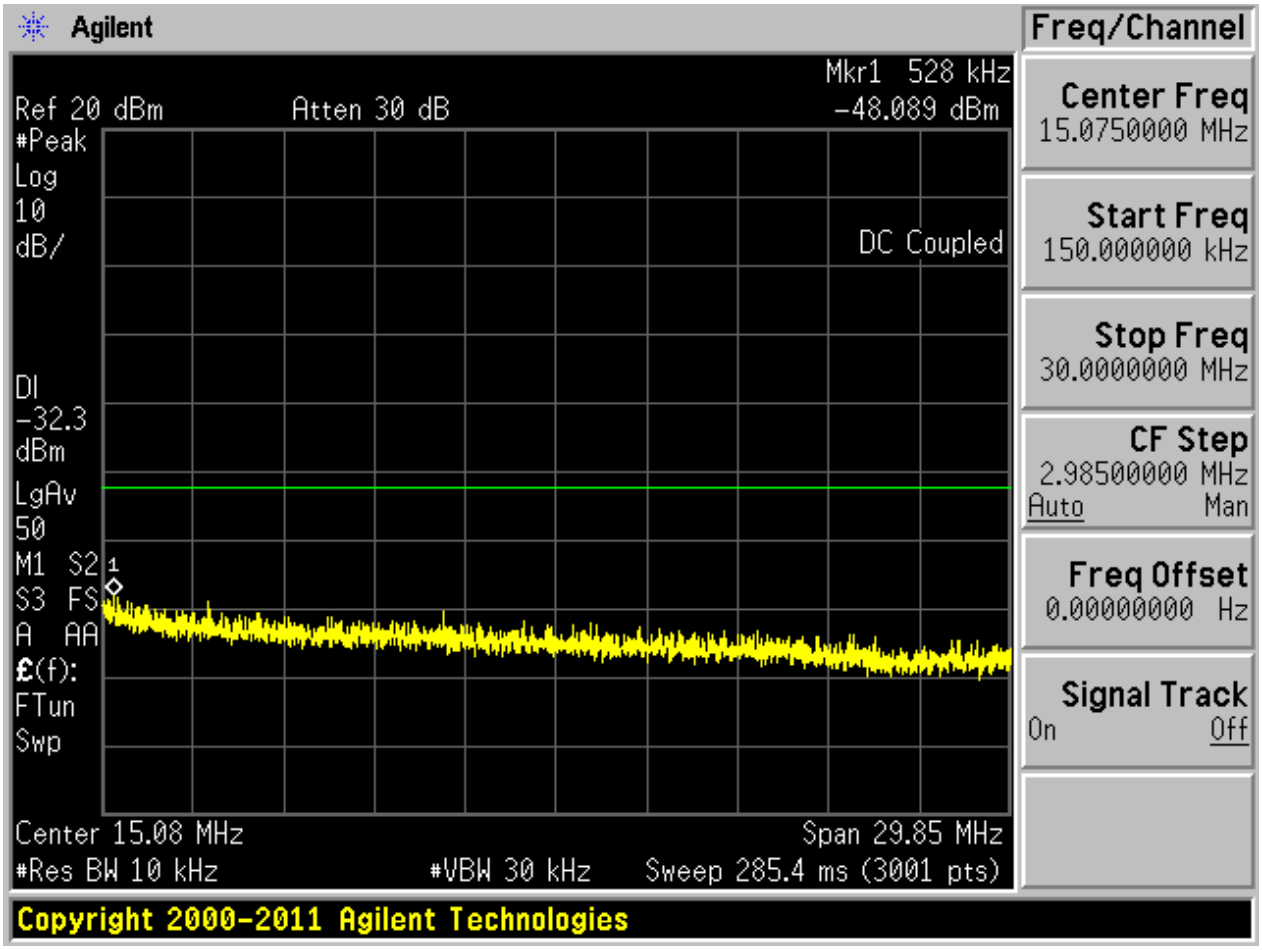

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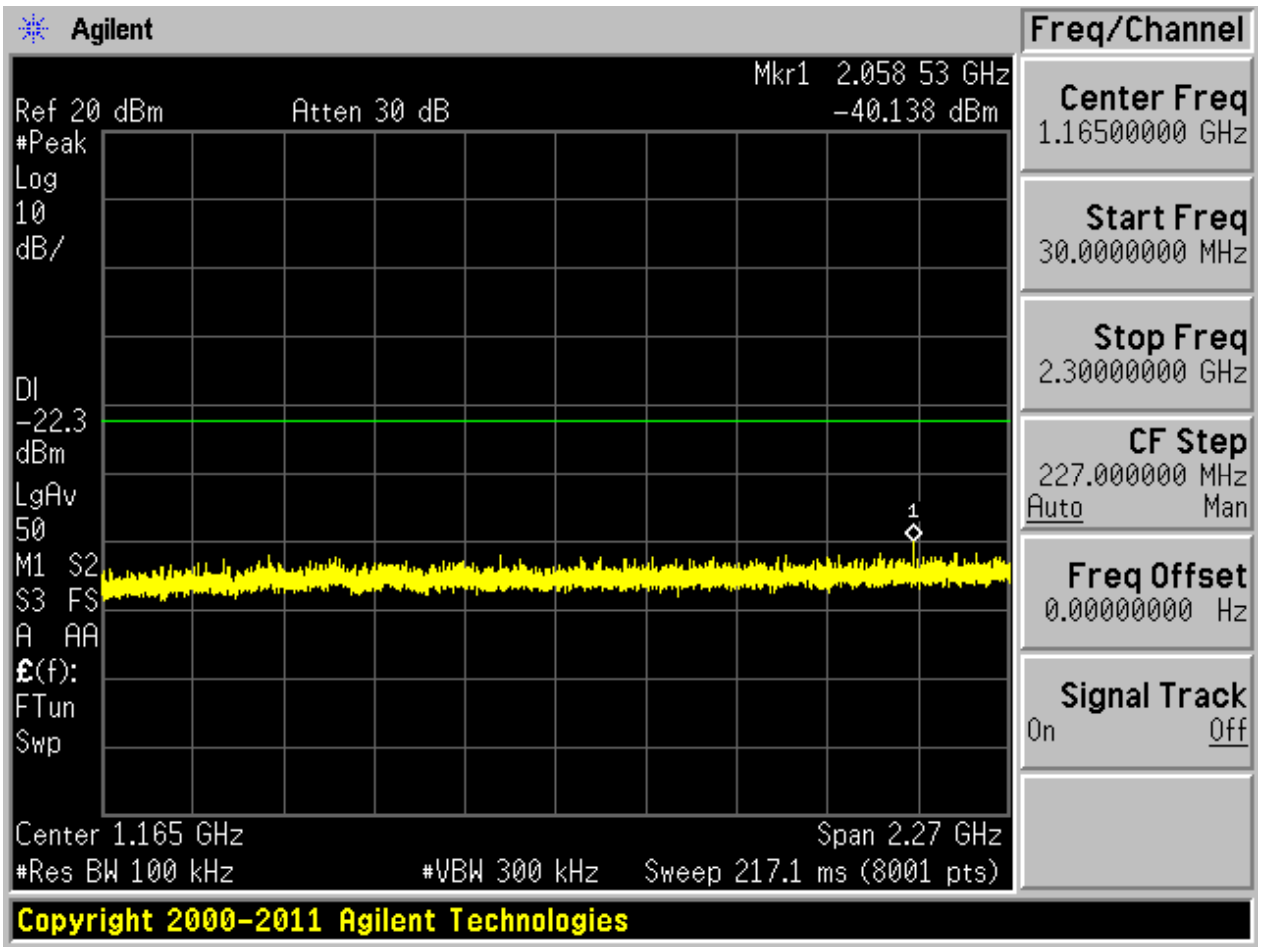

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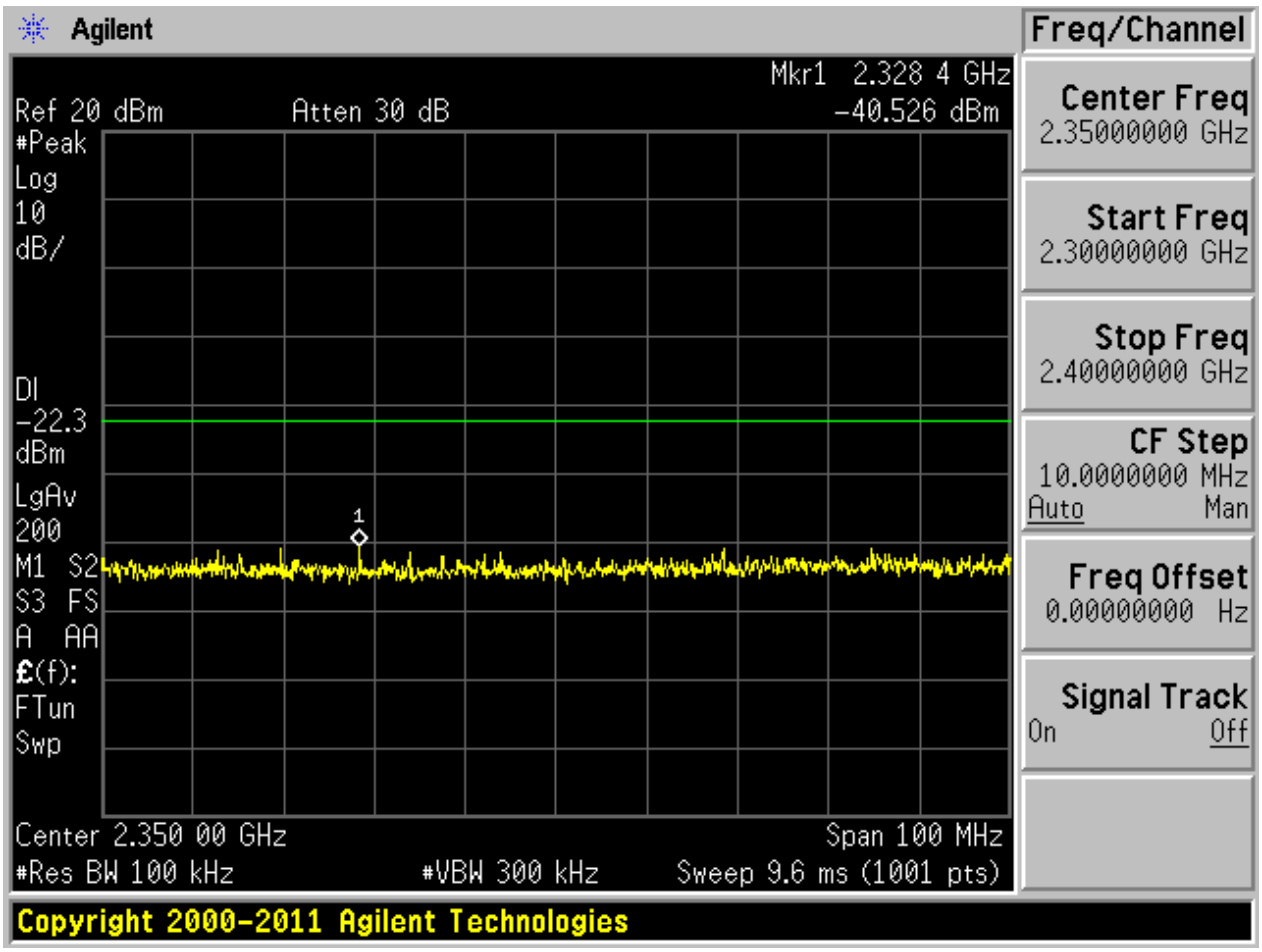

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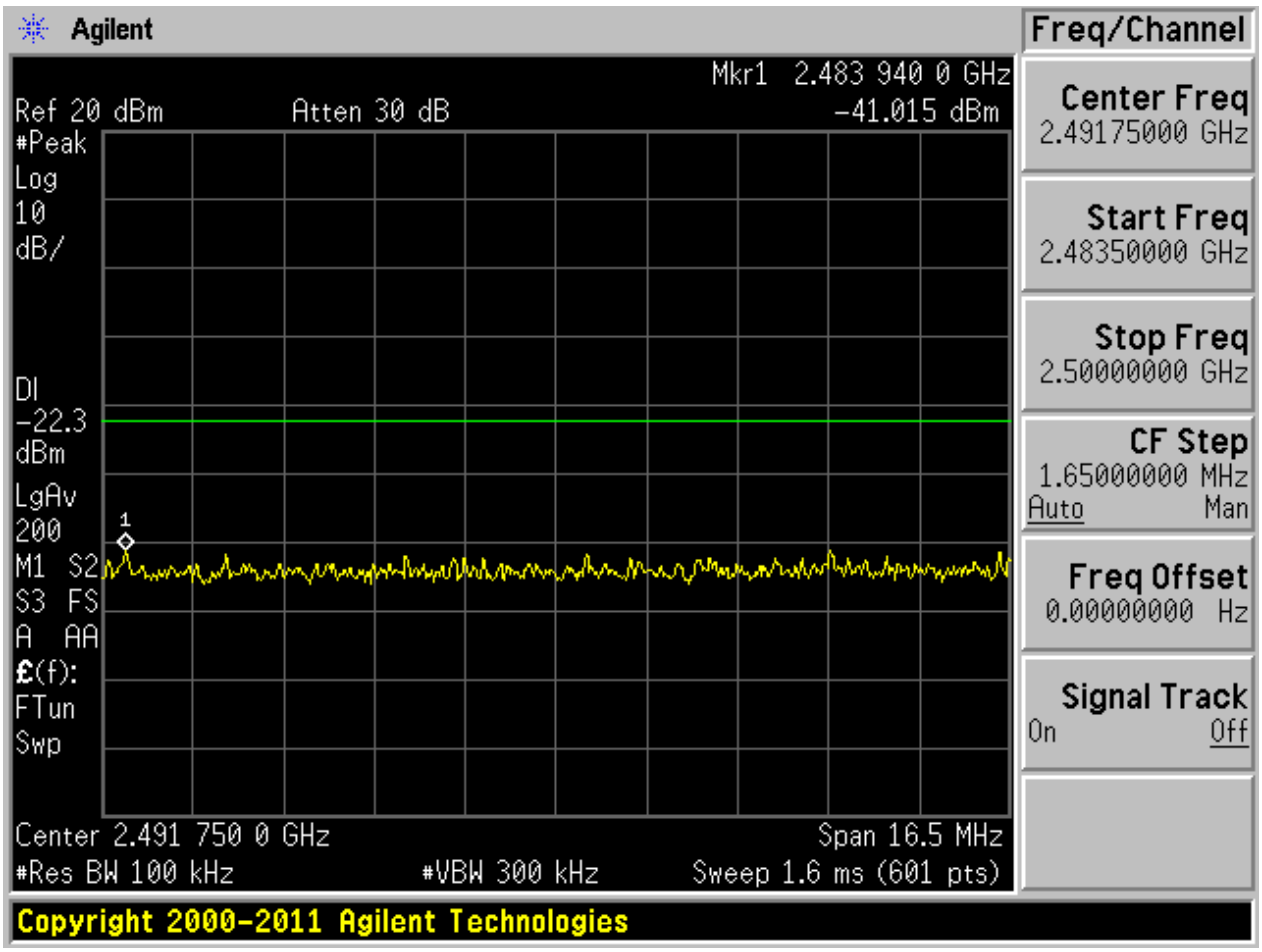

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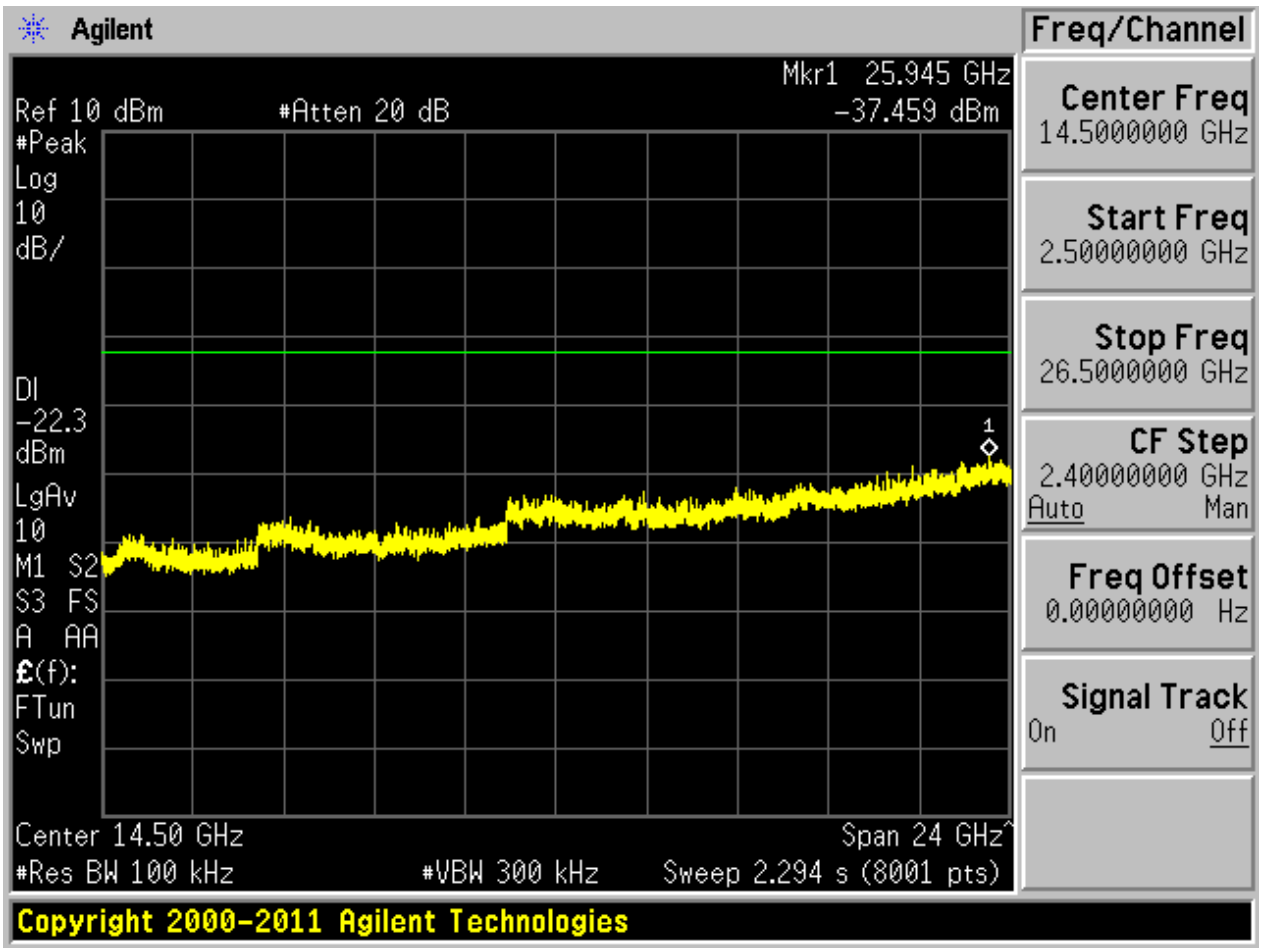

2.1311N20/0_B@1

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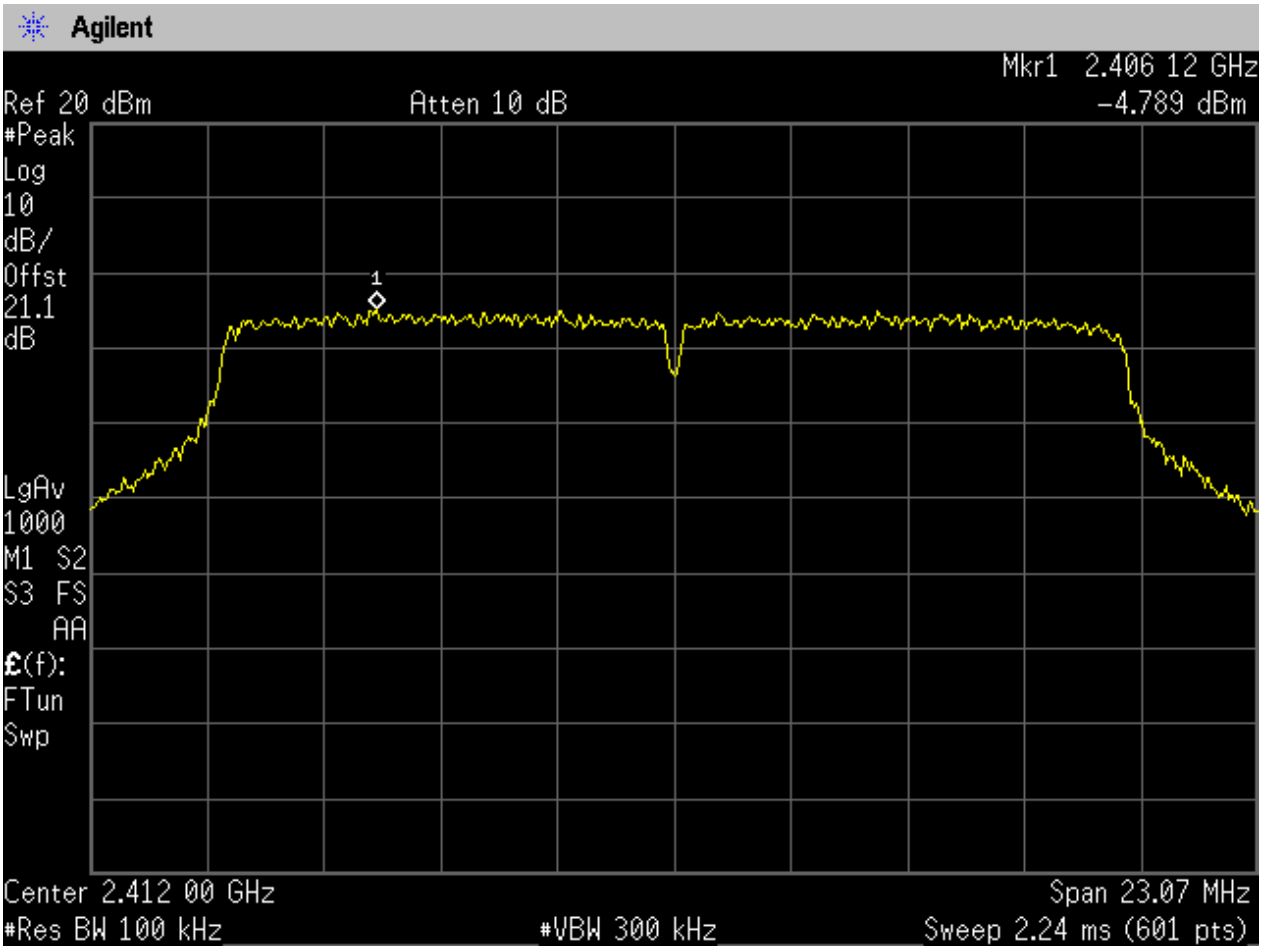

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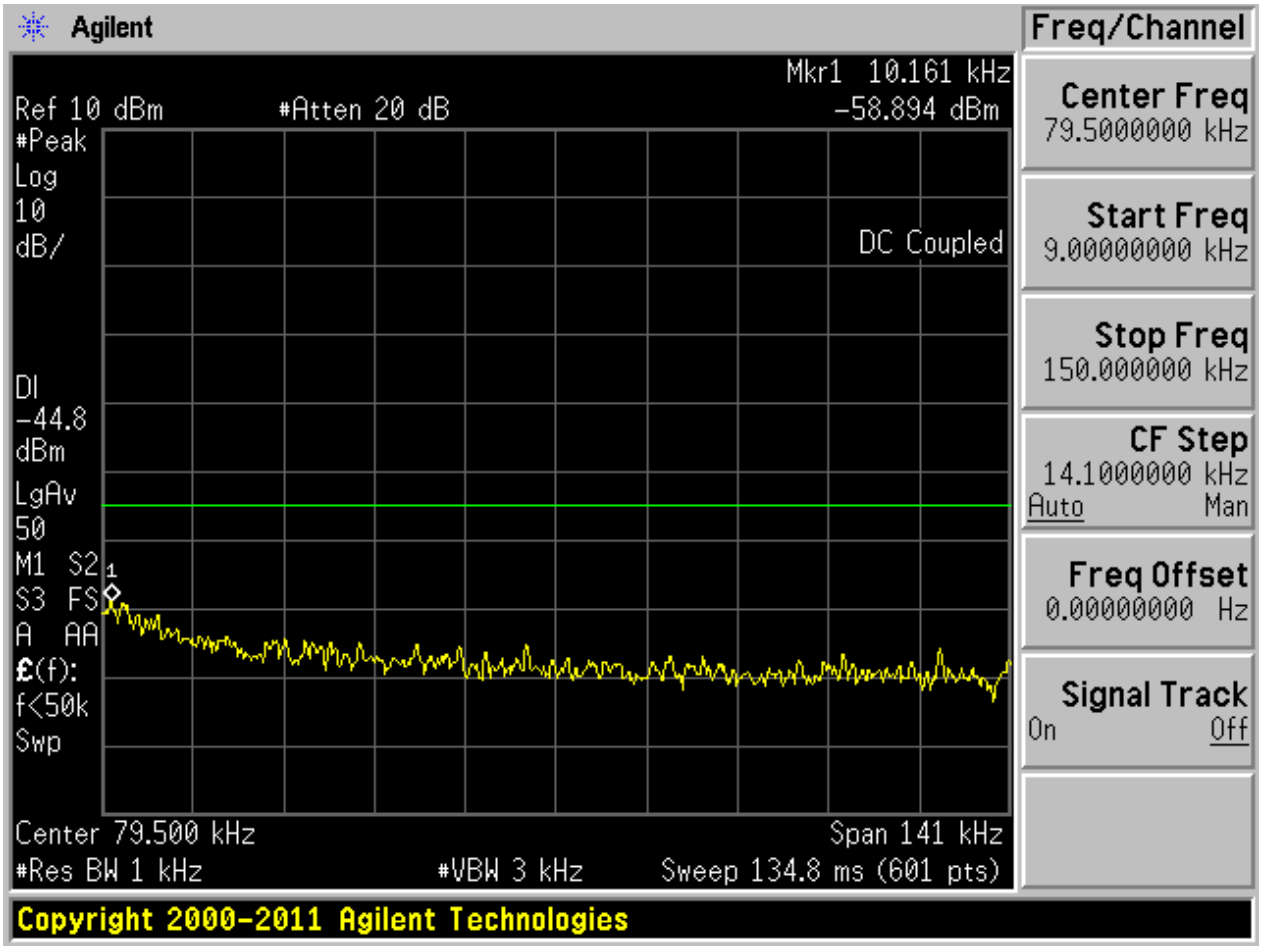

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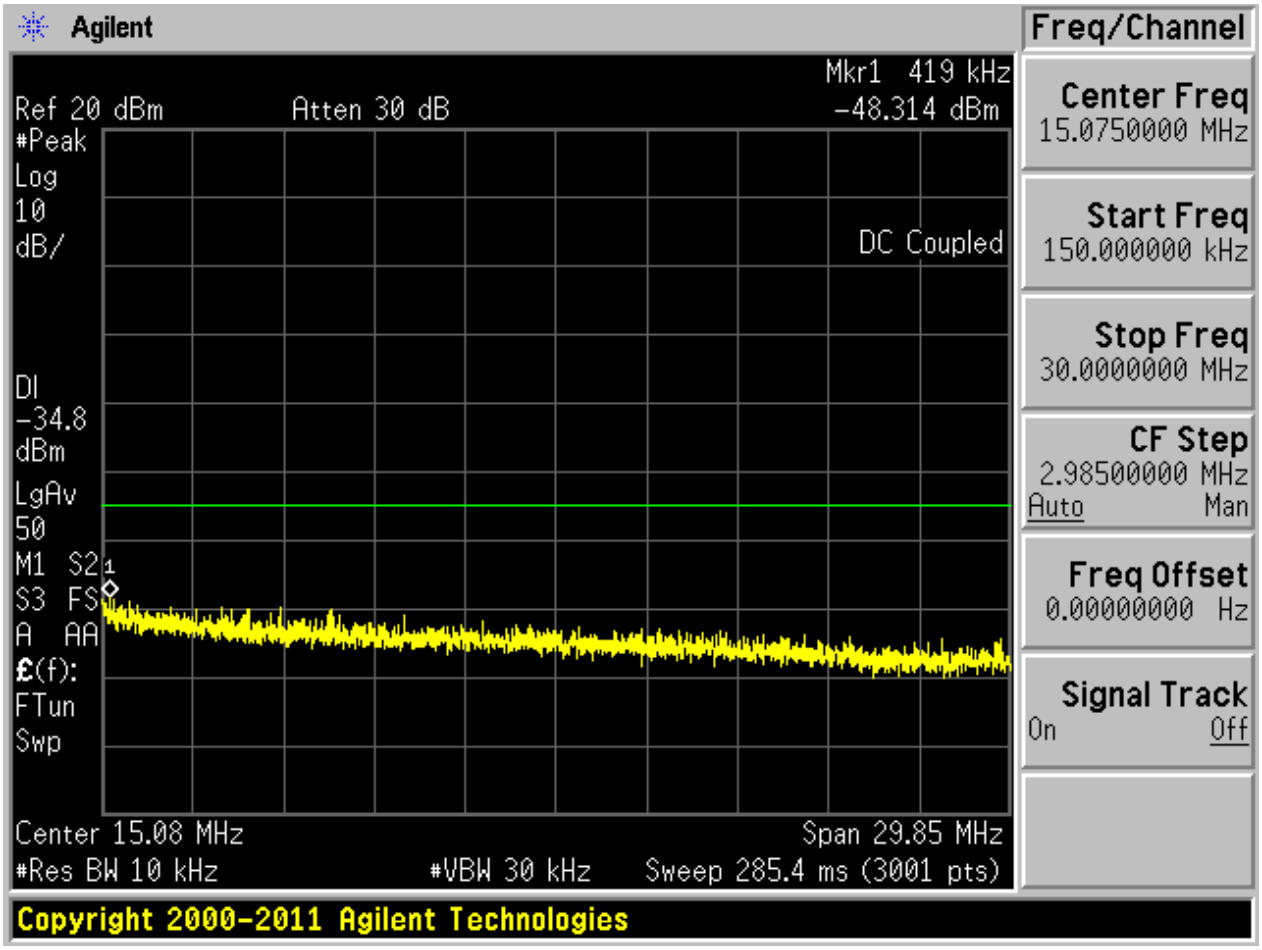

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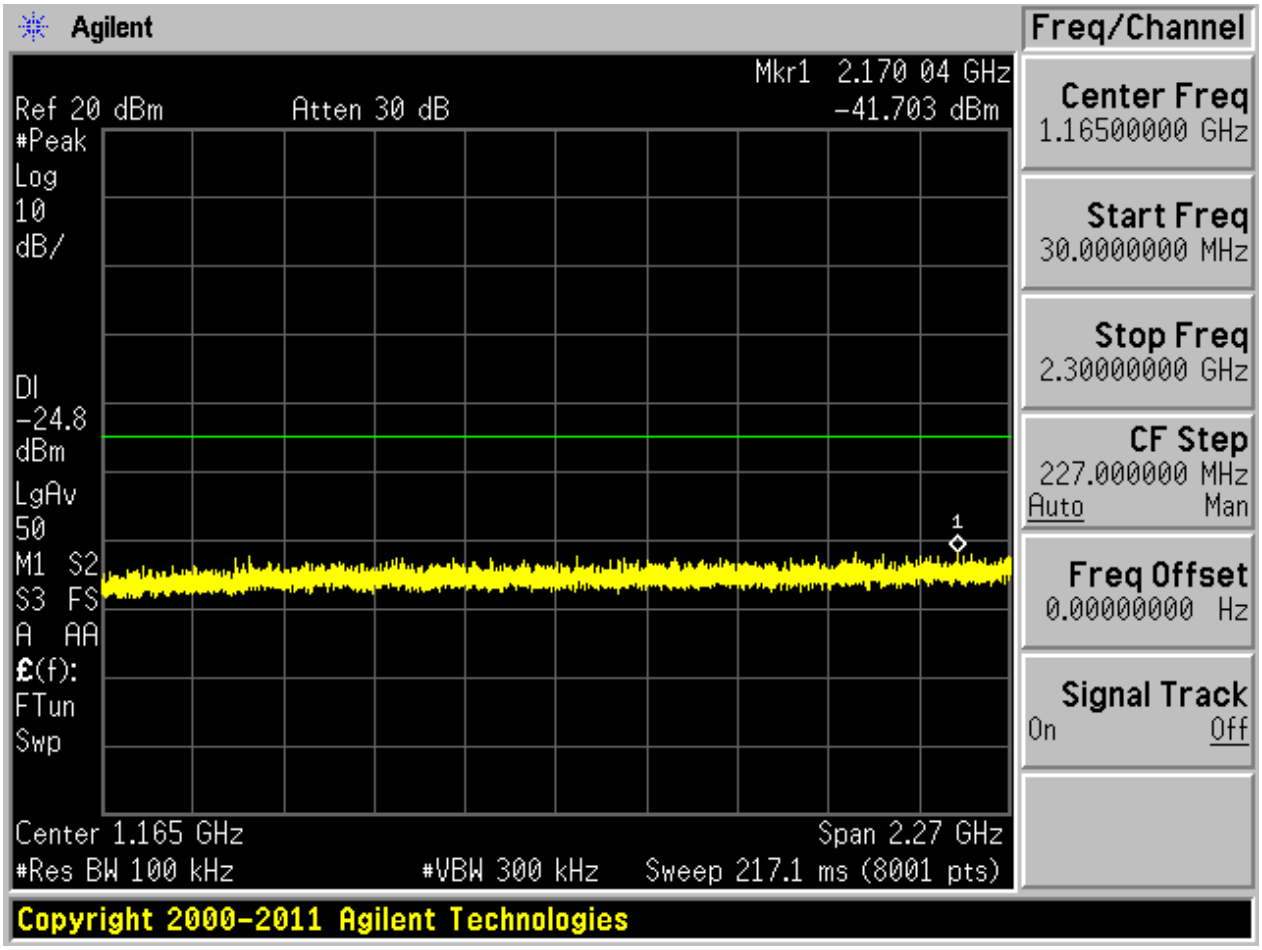

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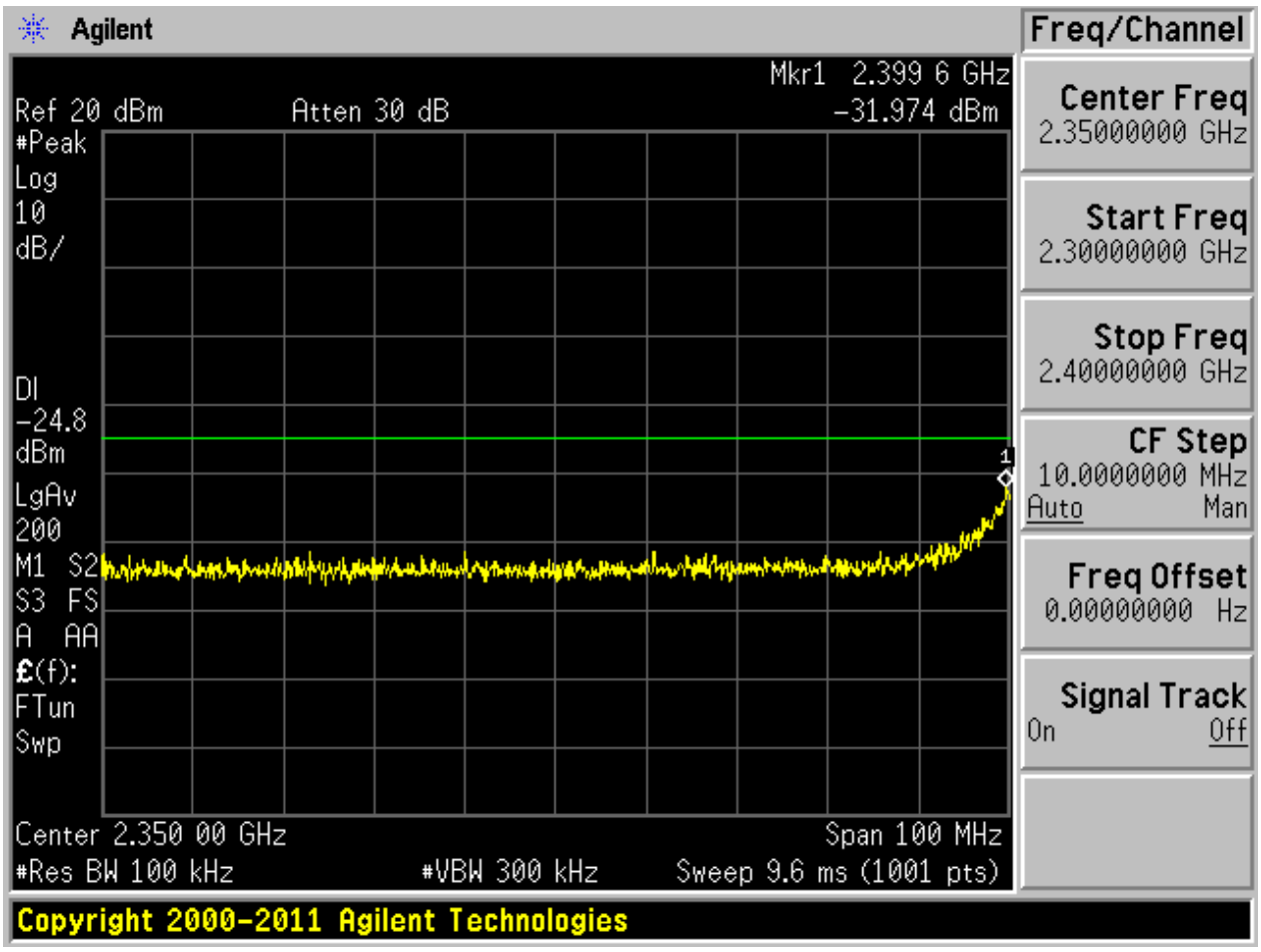

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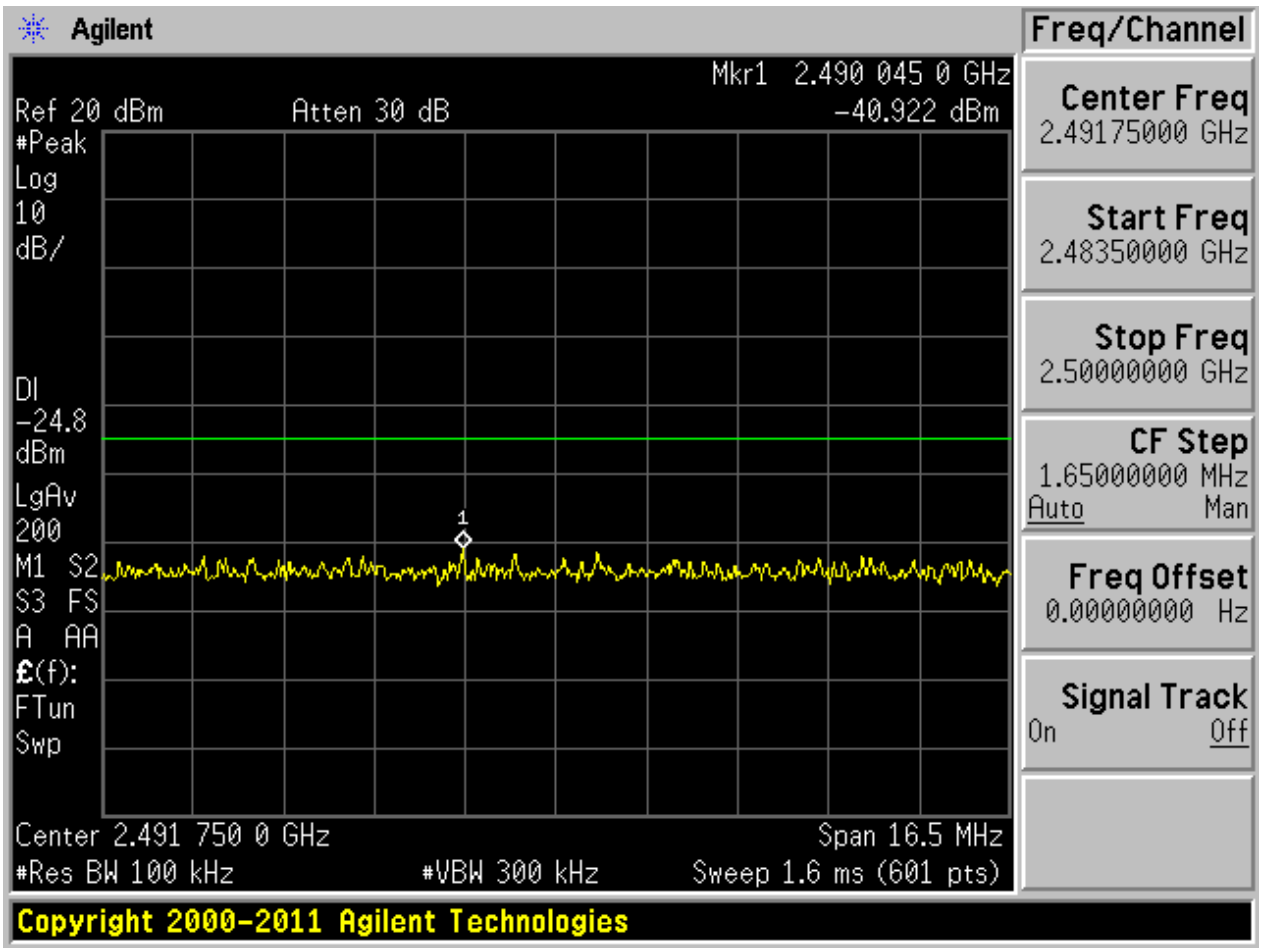

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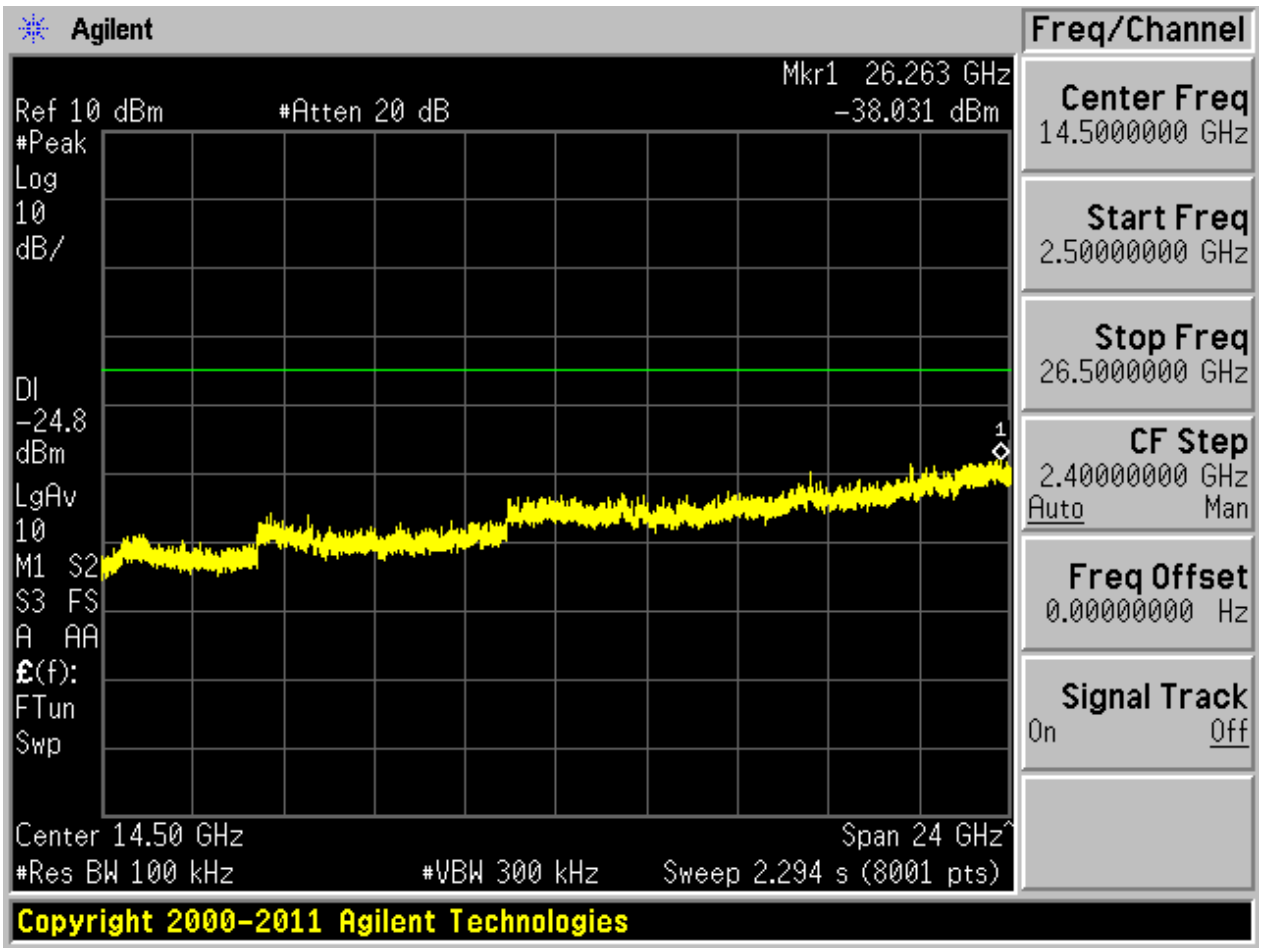

2.1411N20/0_M@1

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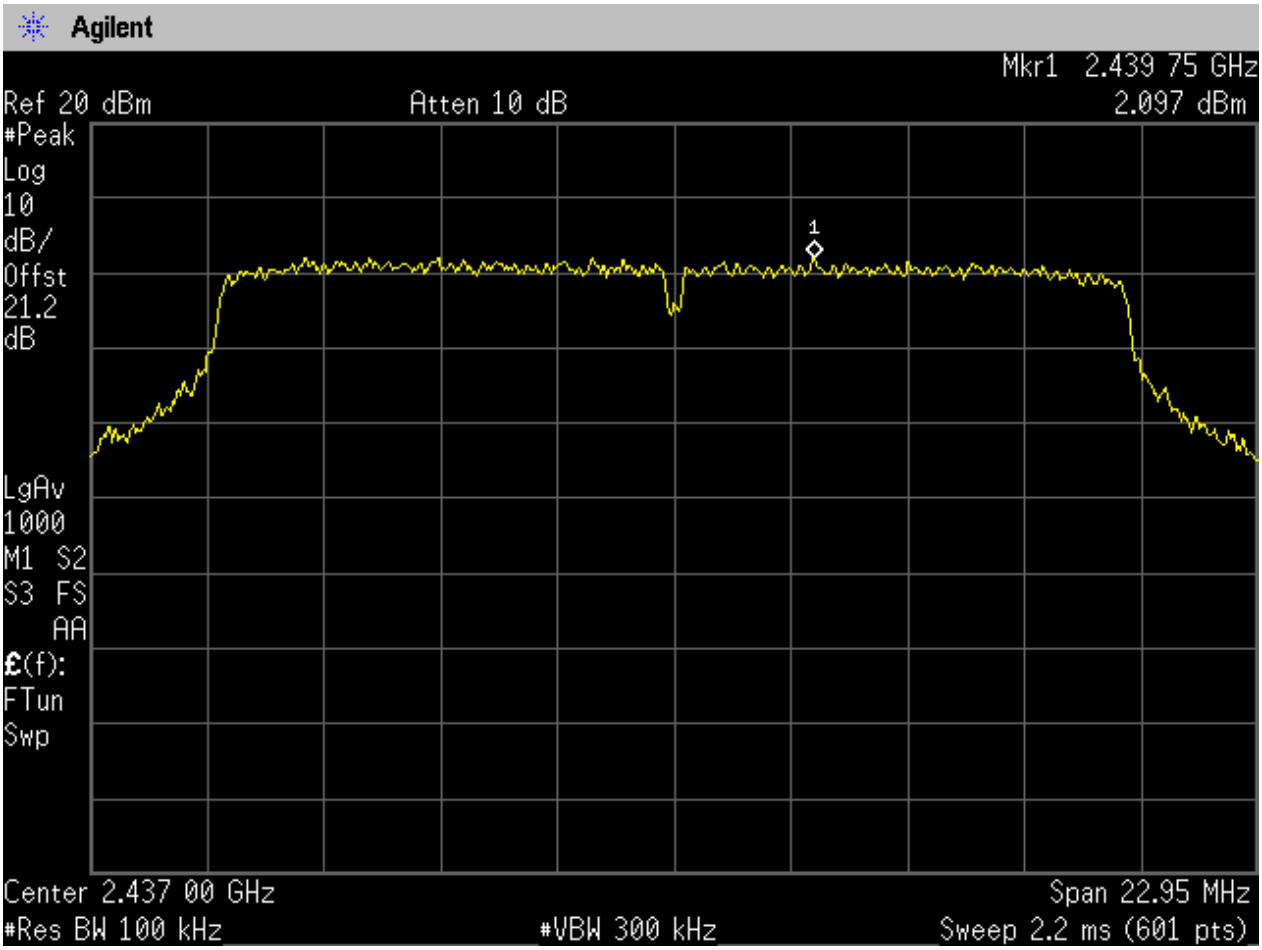

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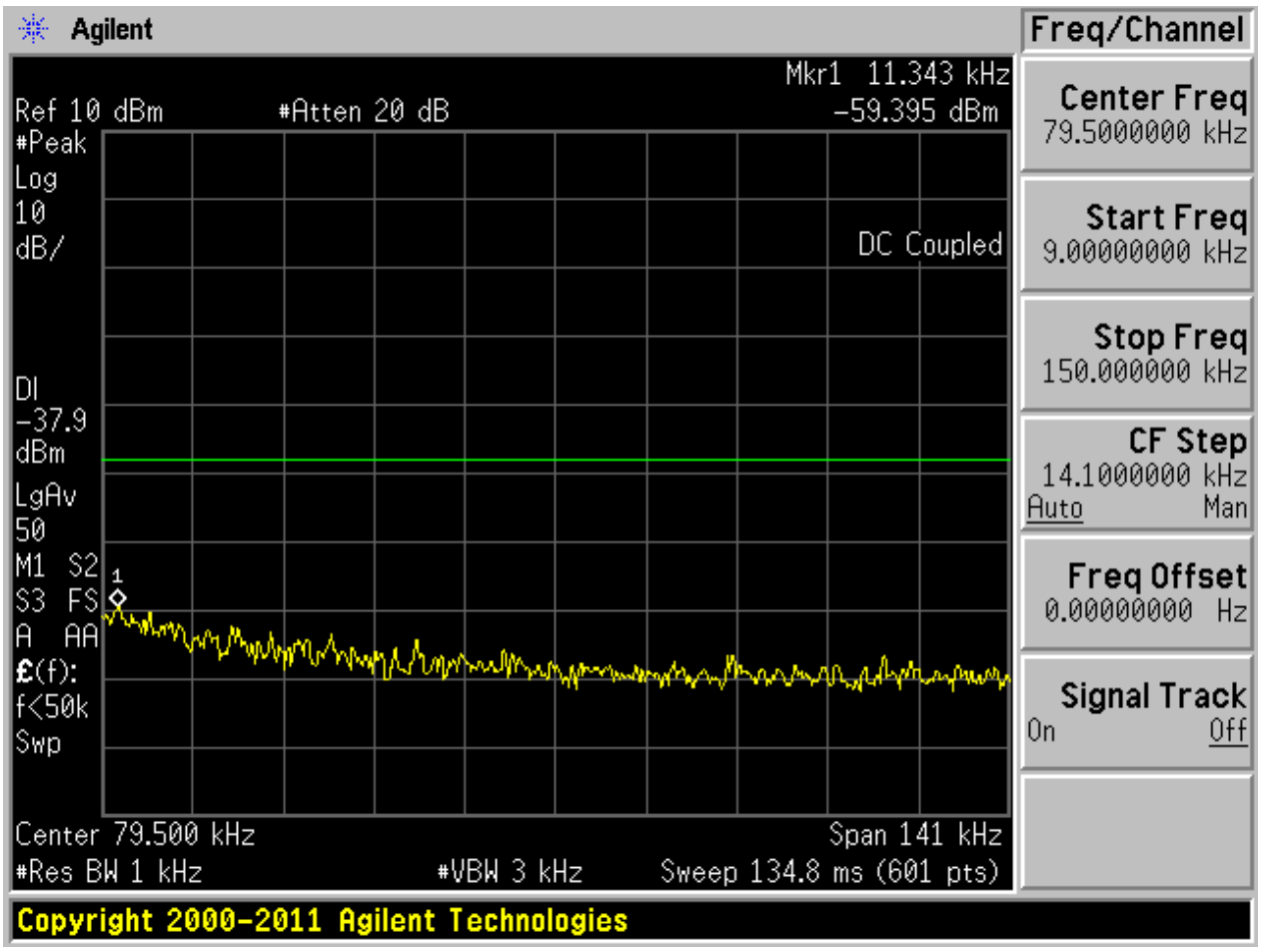

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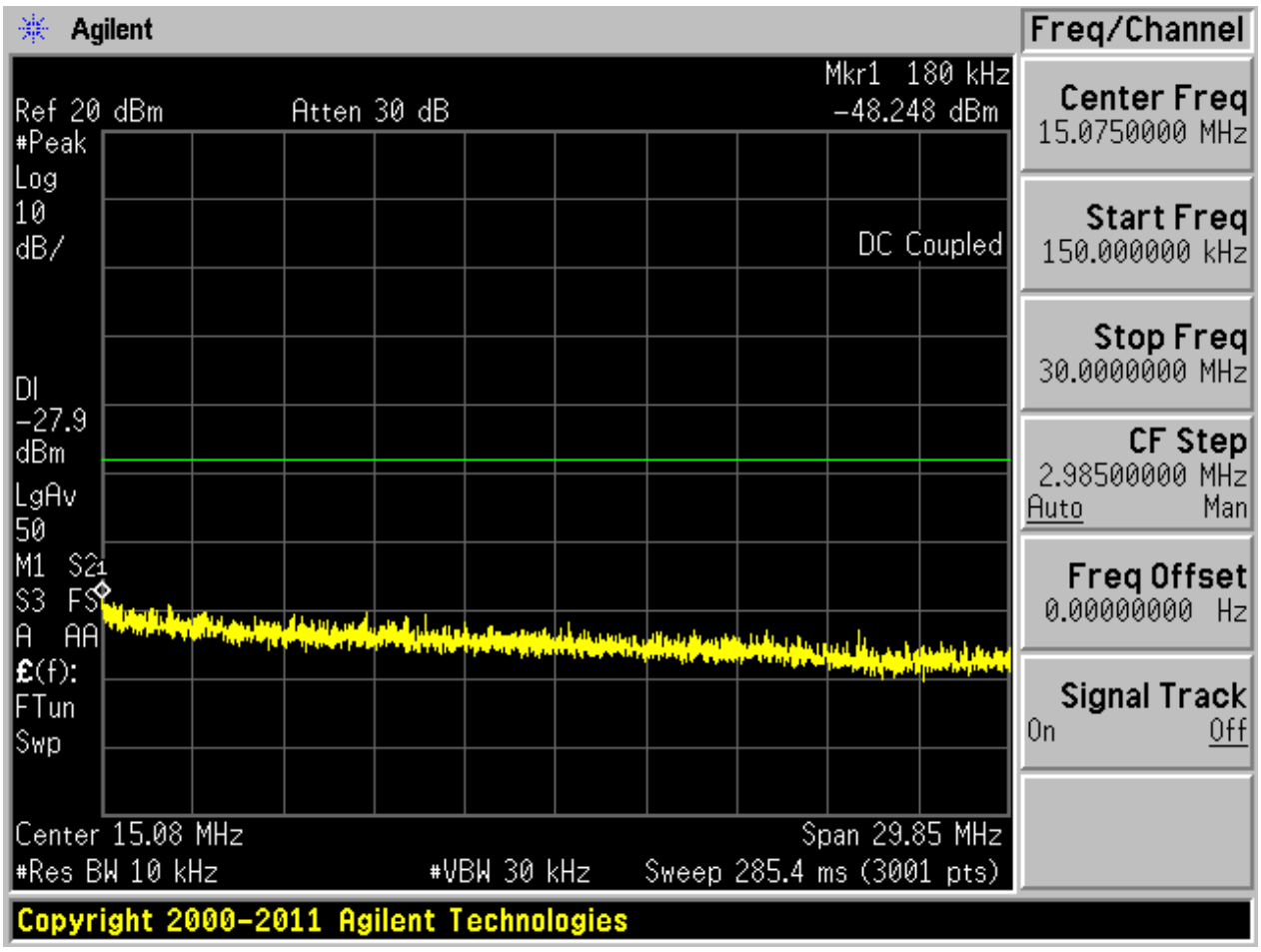

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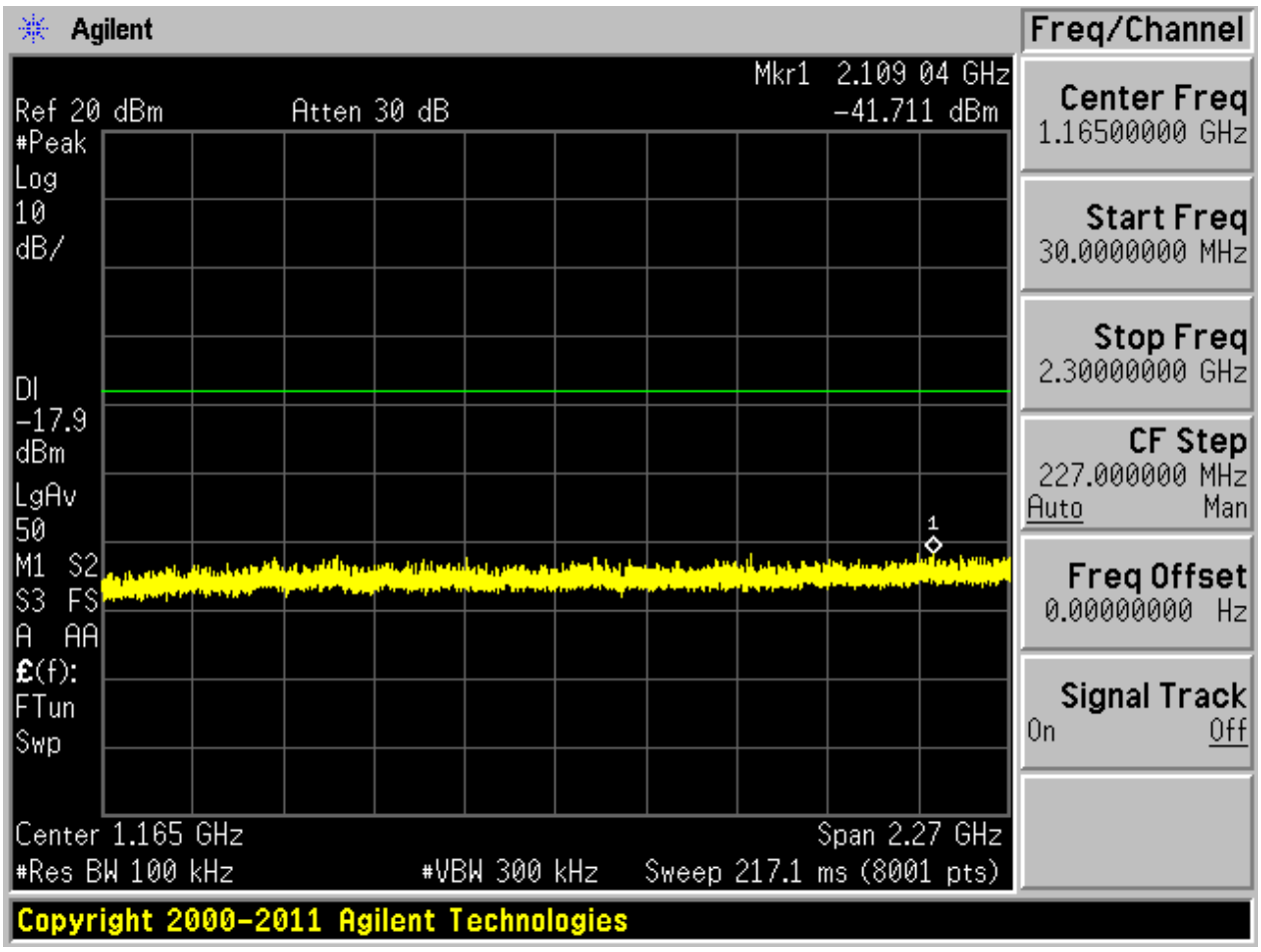

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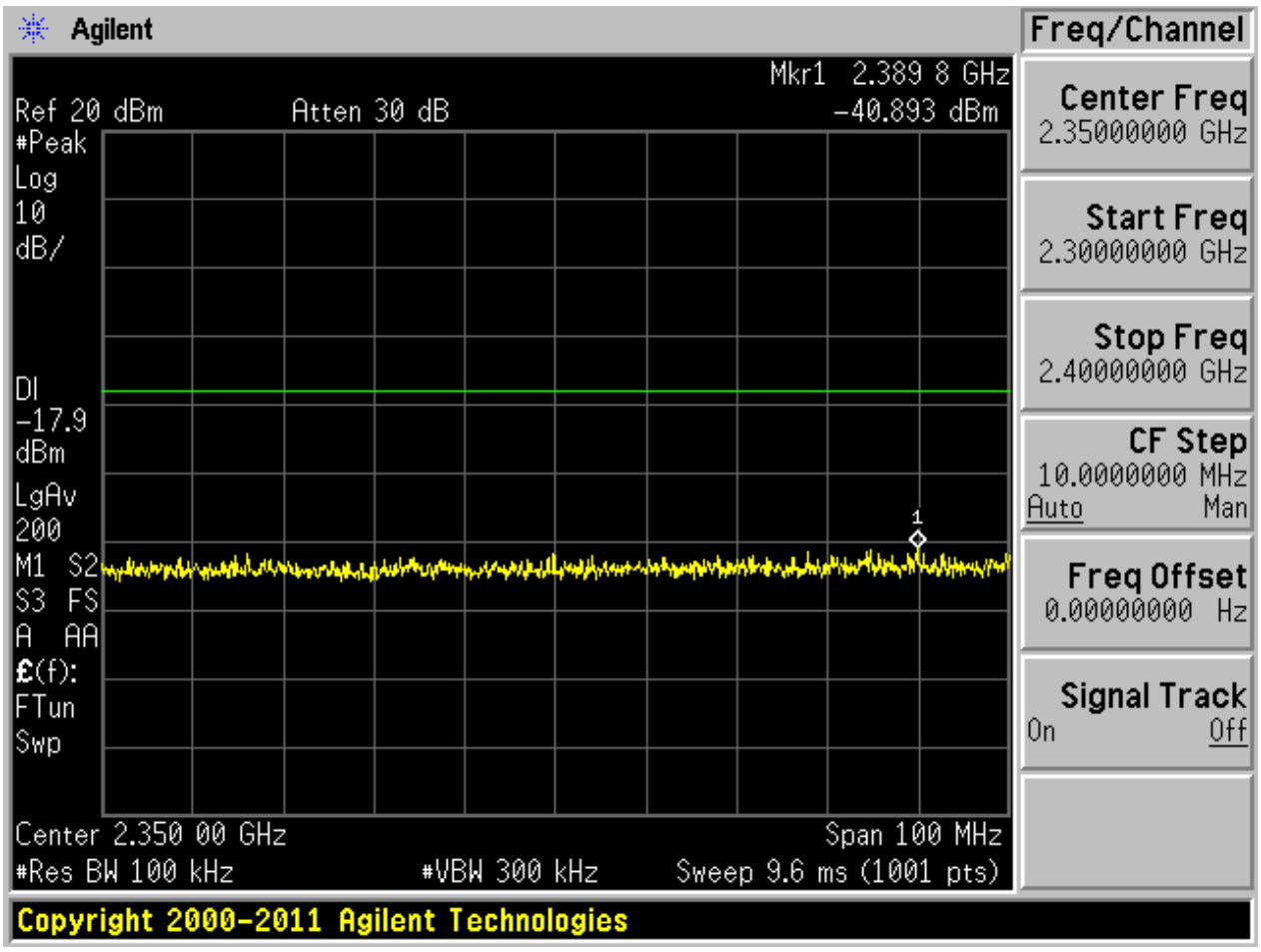

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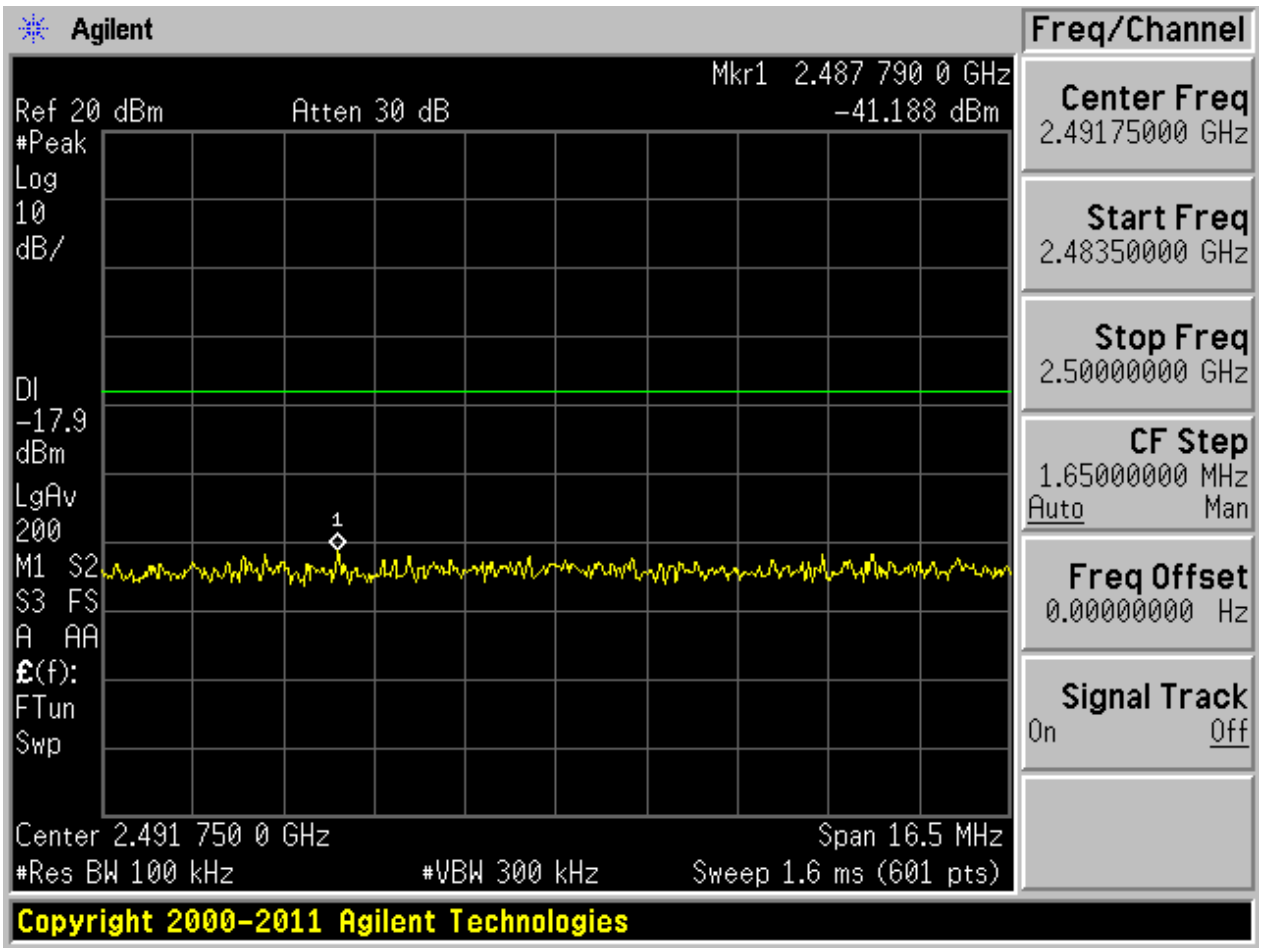

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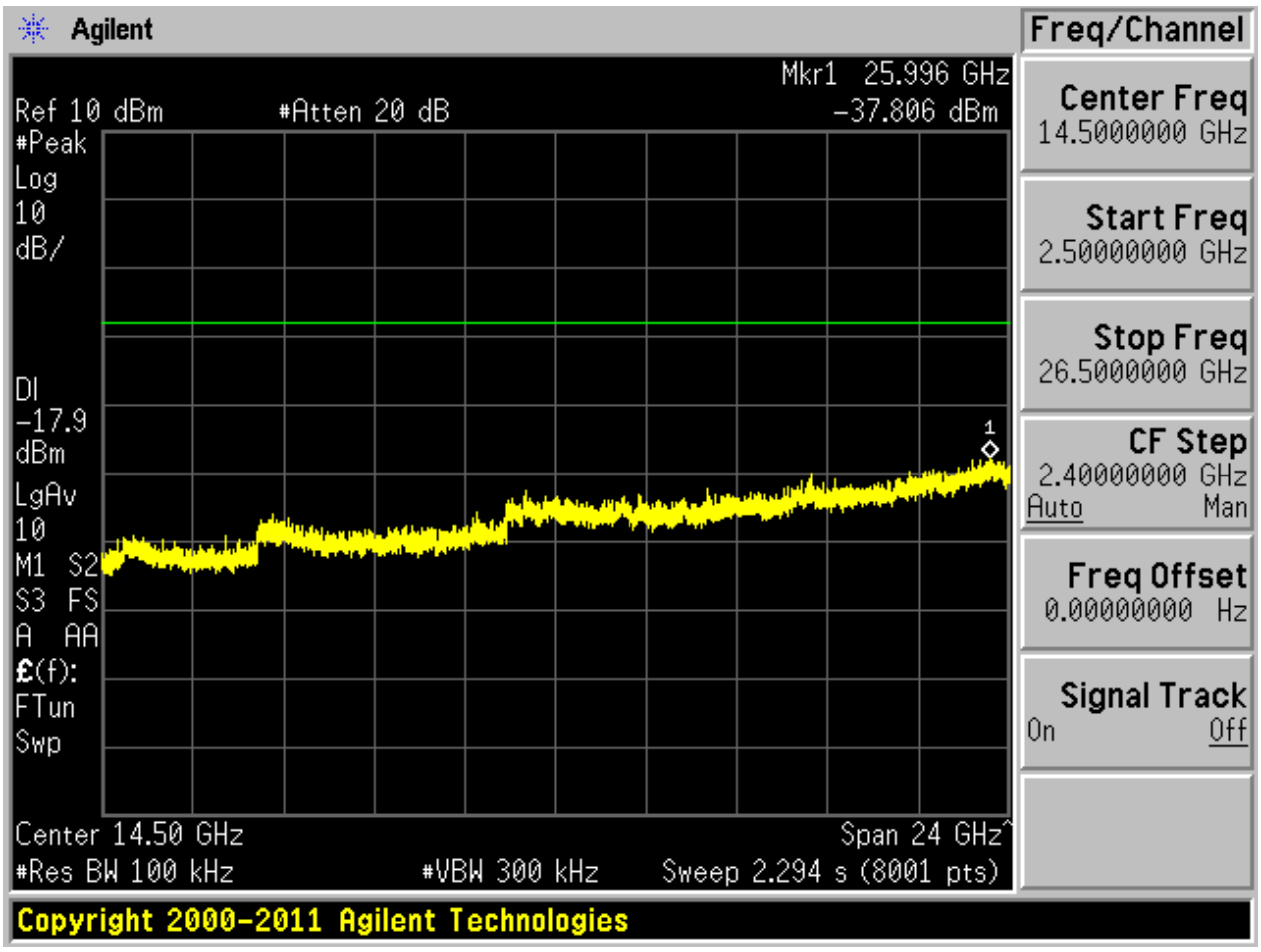

2.1511N20/0_T@1

2.15.1 Pref

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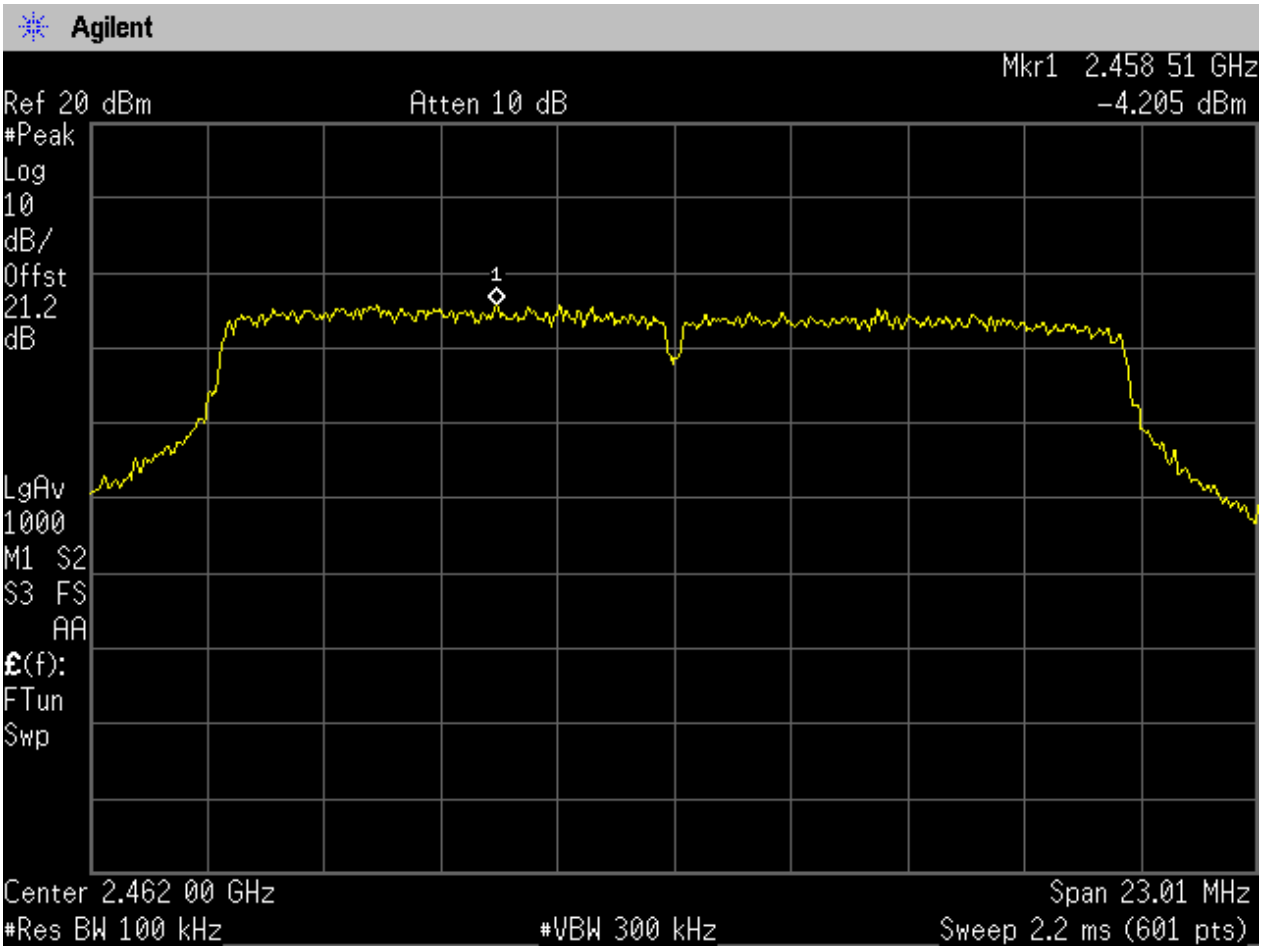

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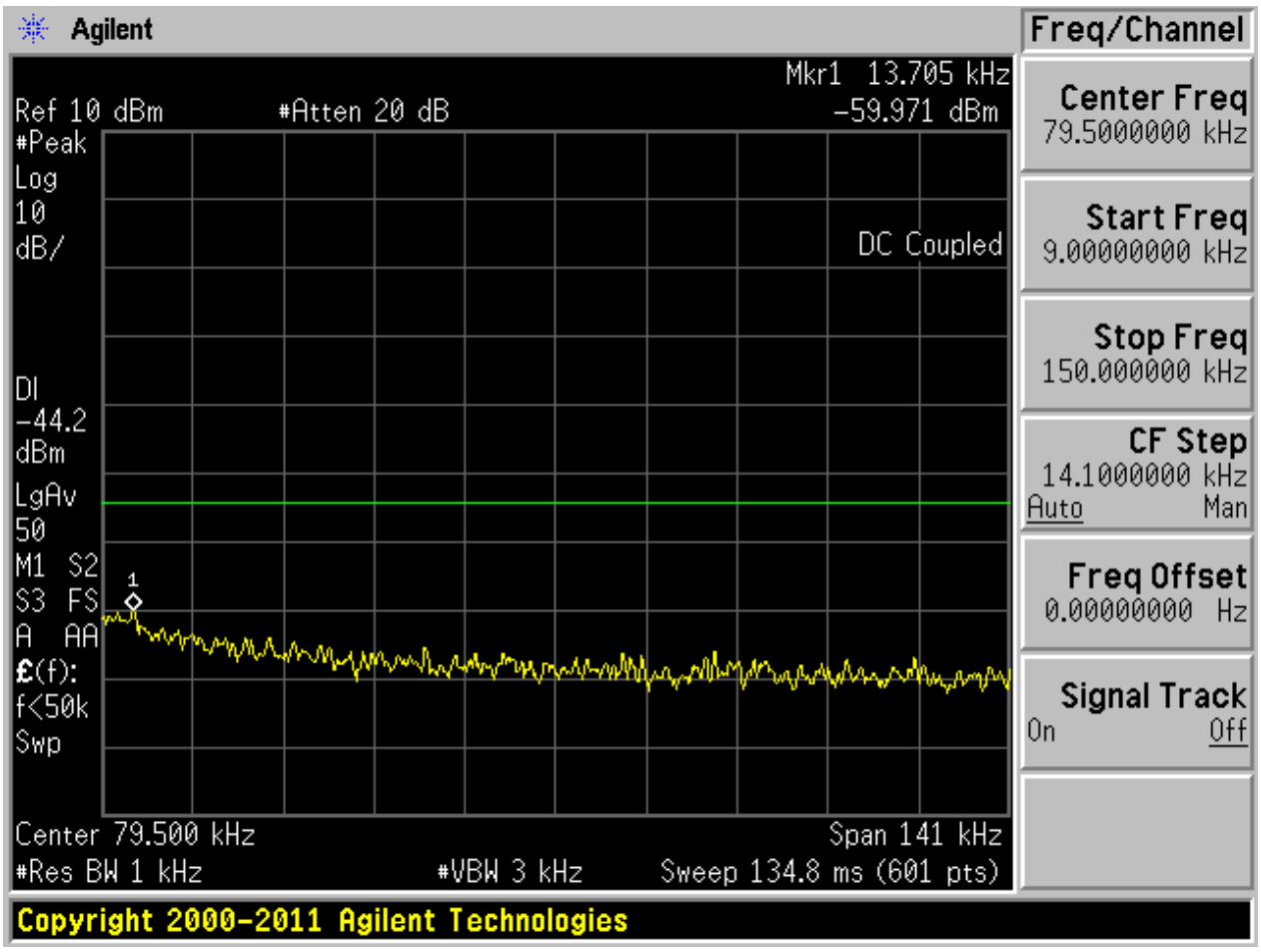

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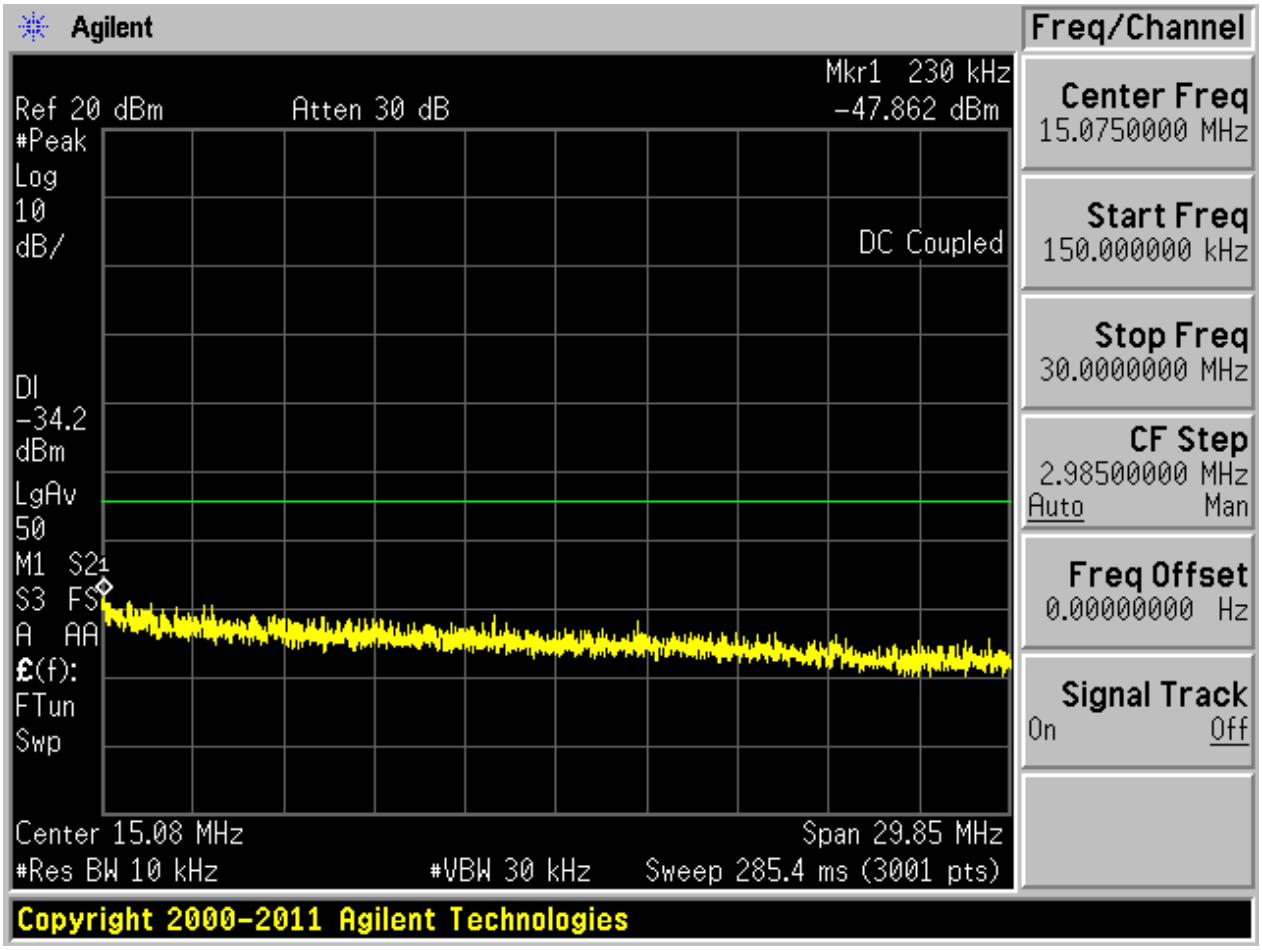

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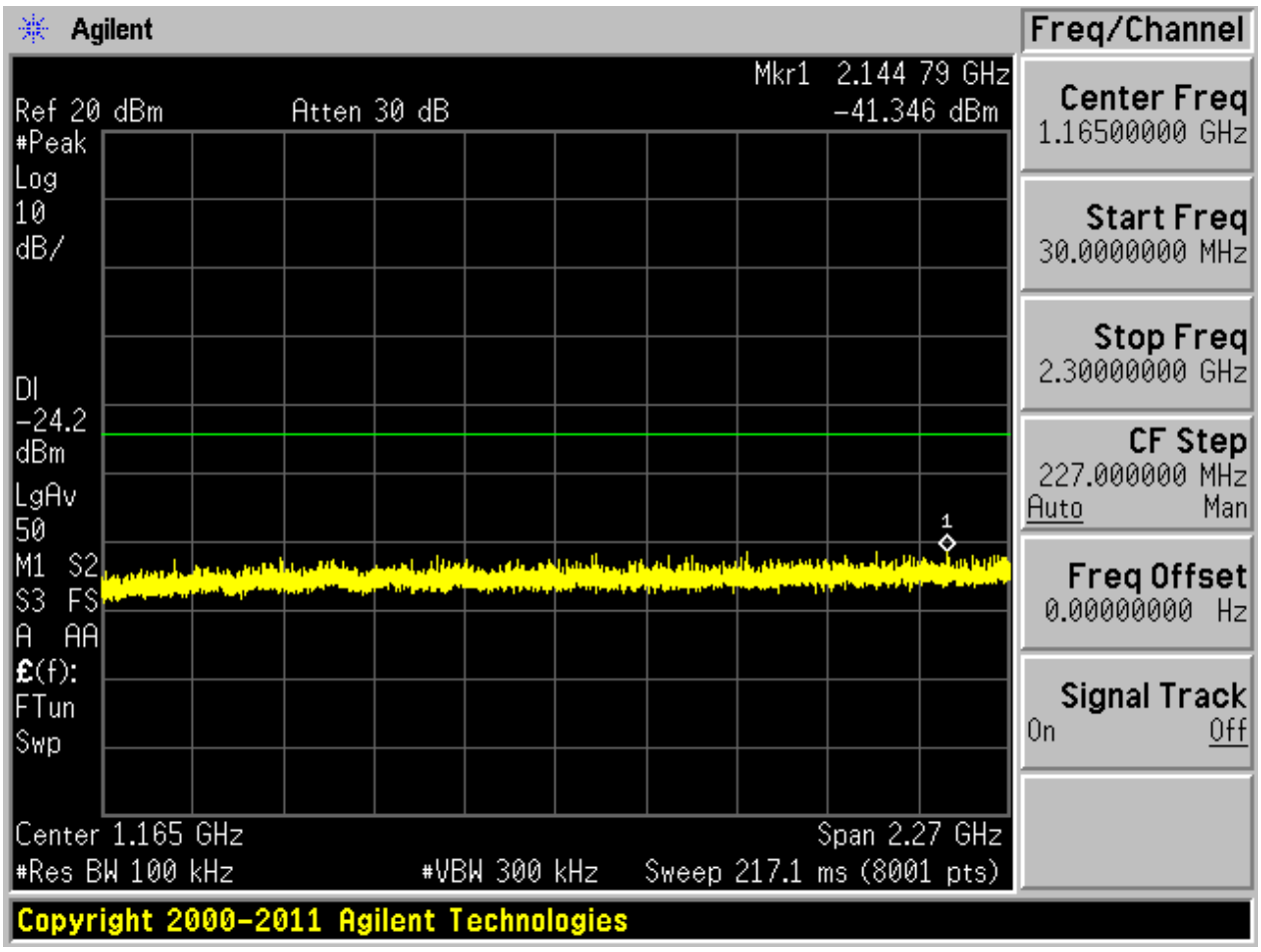

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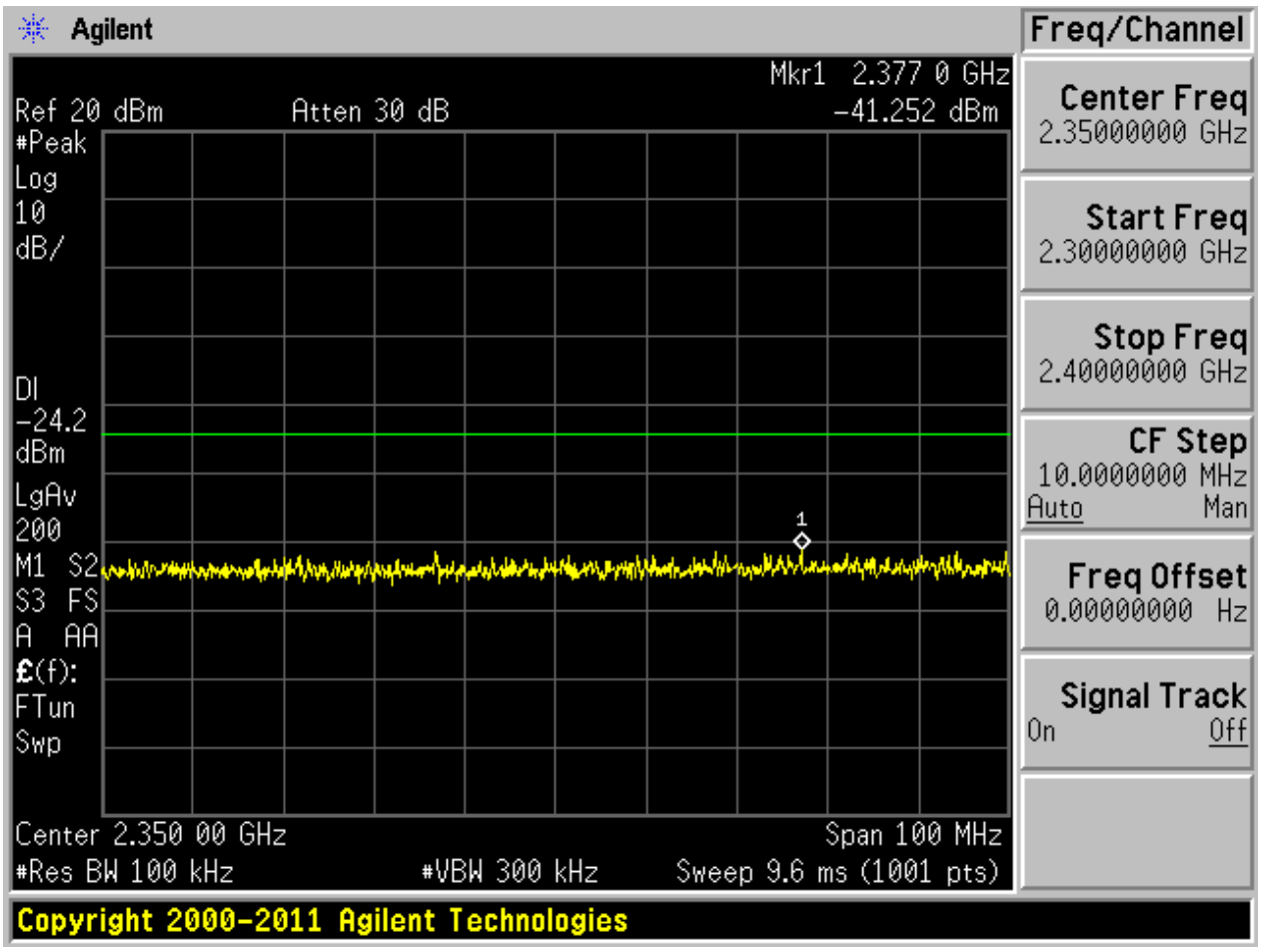

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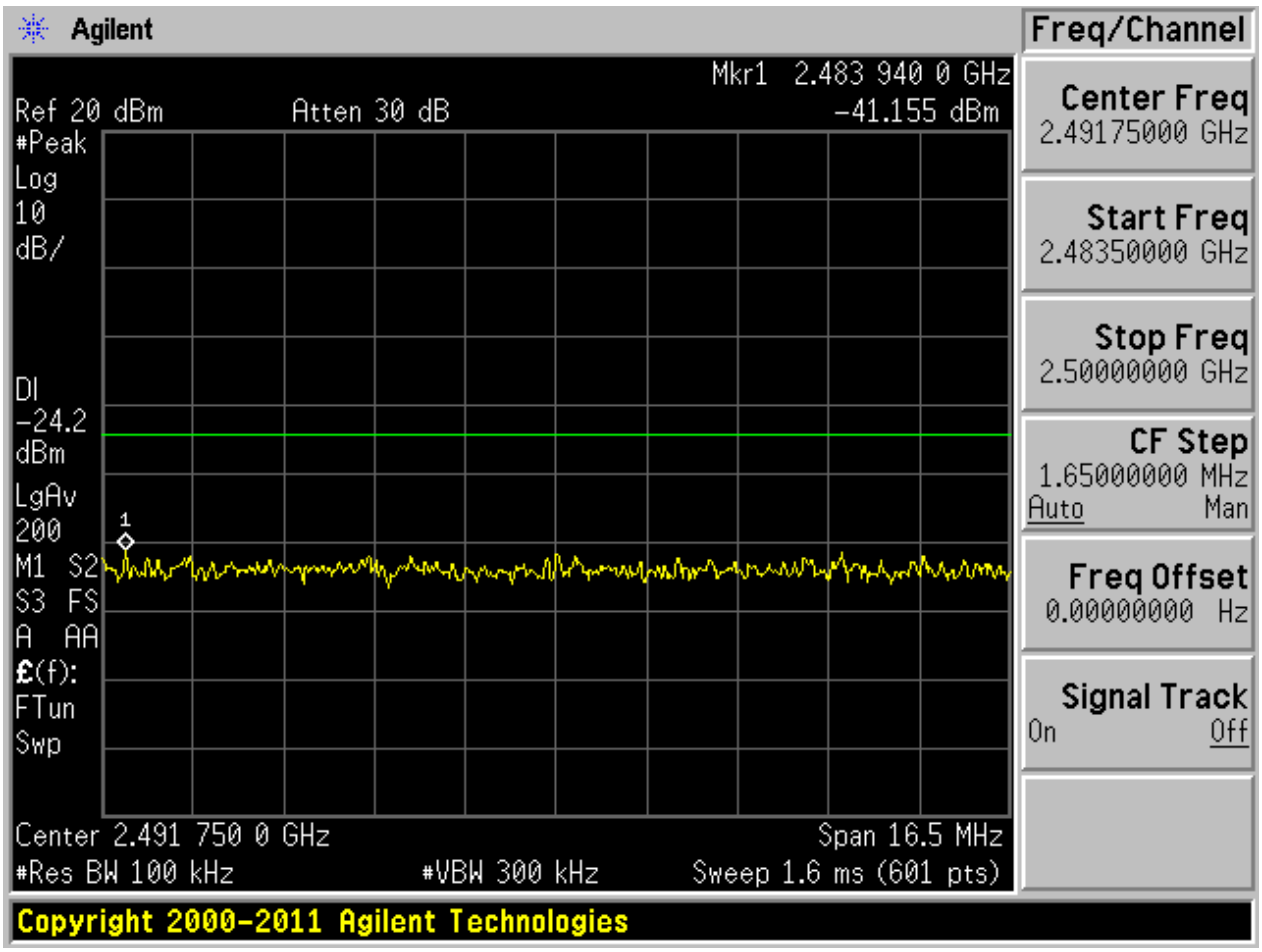

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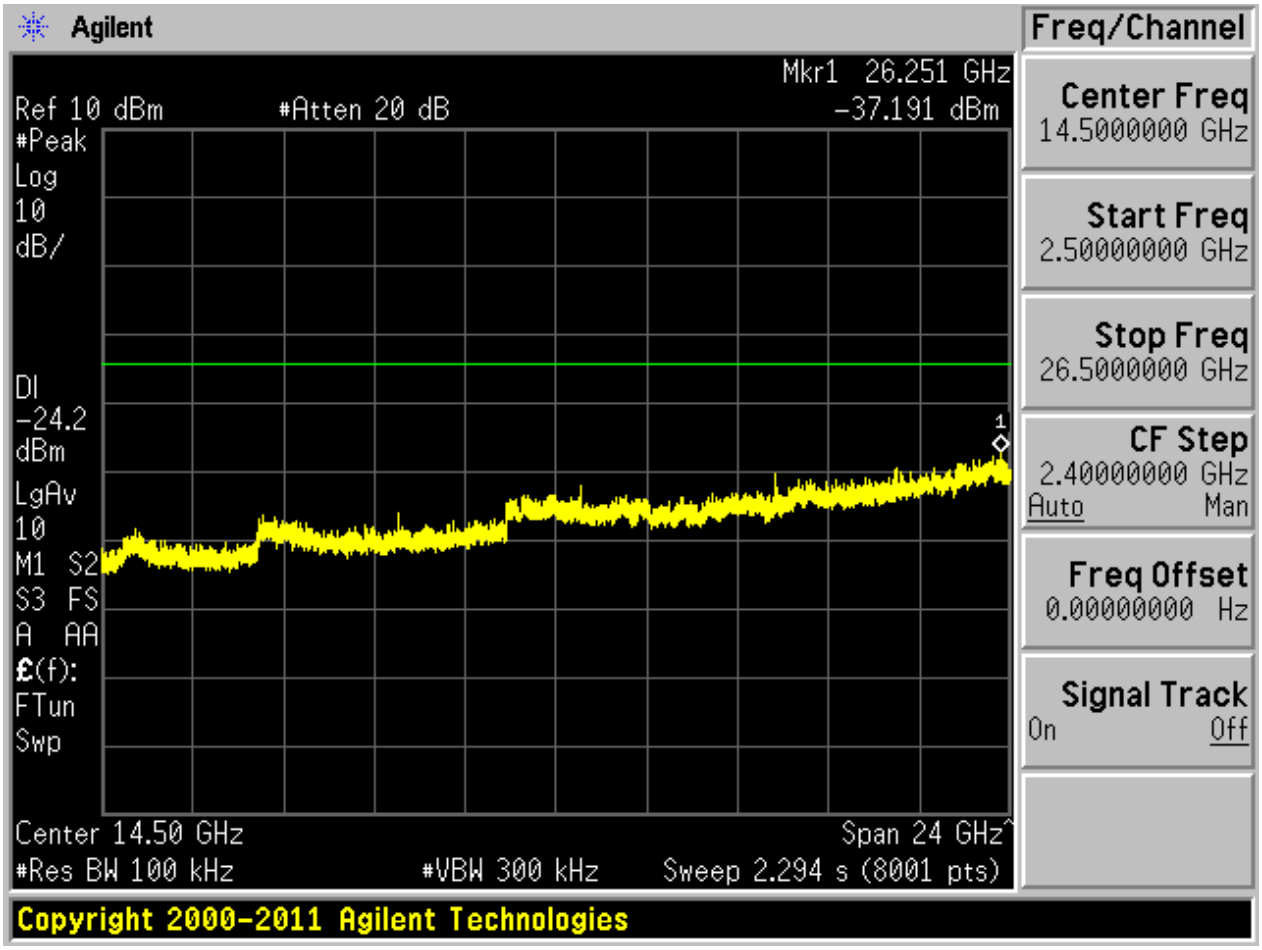

2.1611N20m/8_B@1+2

2.16.1 Ant 1

2.16.1.1 Pref

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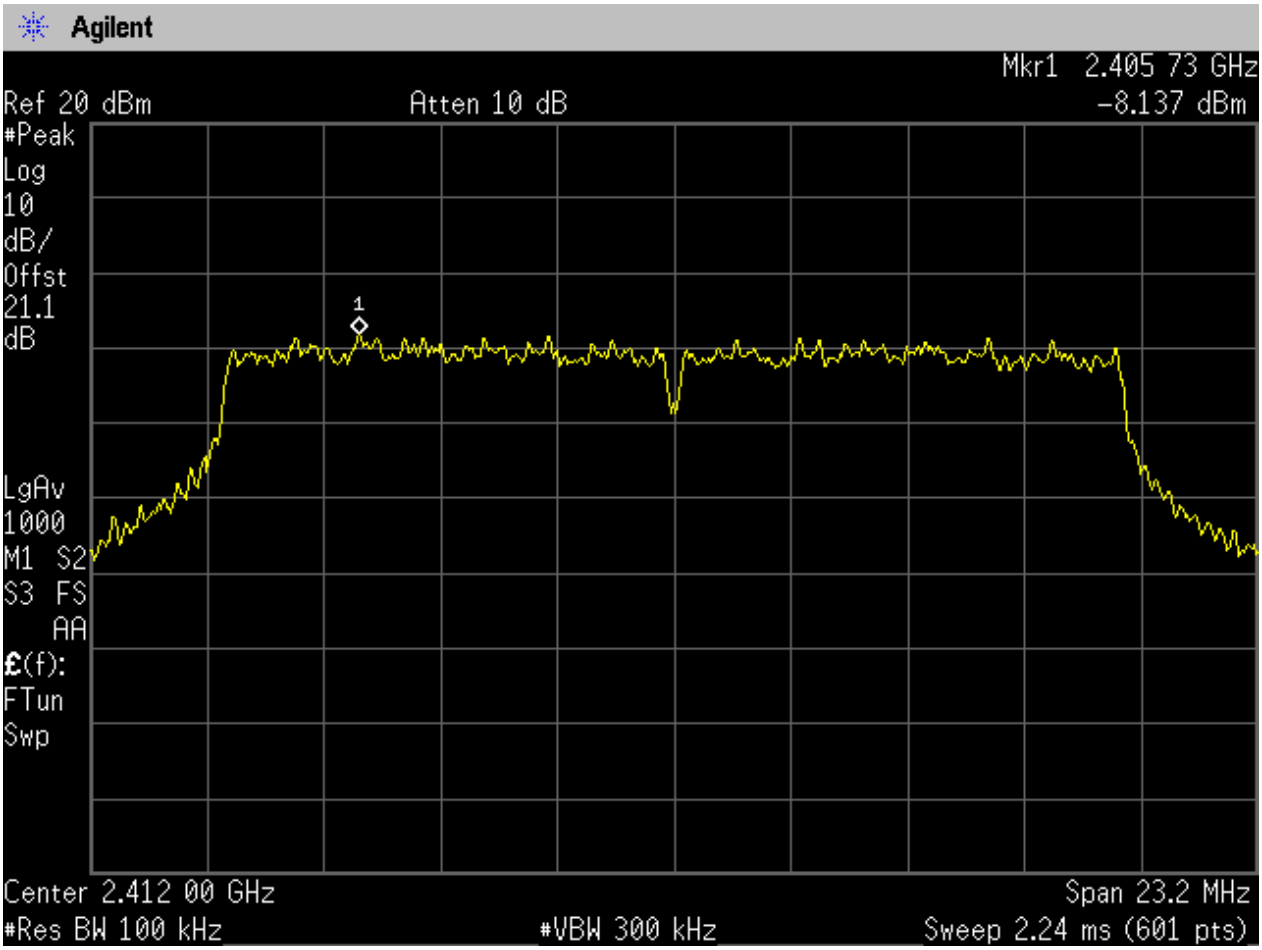

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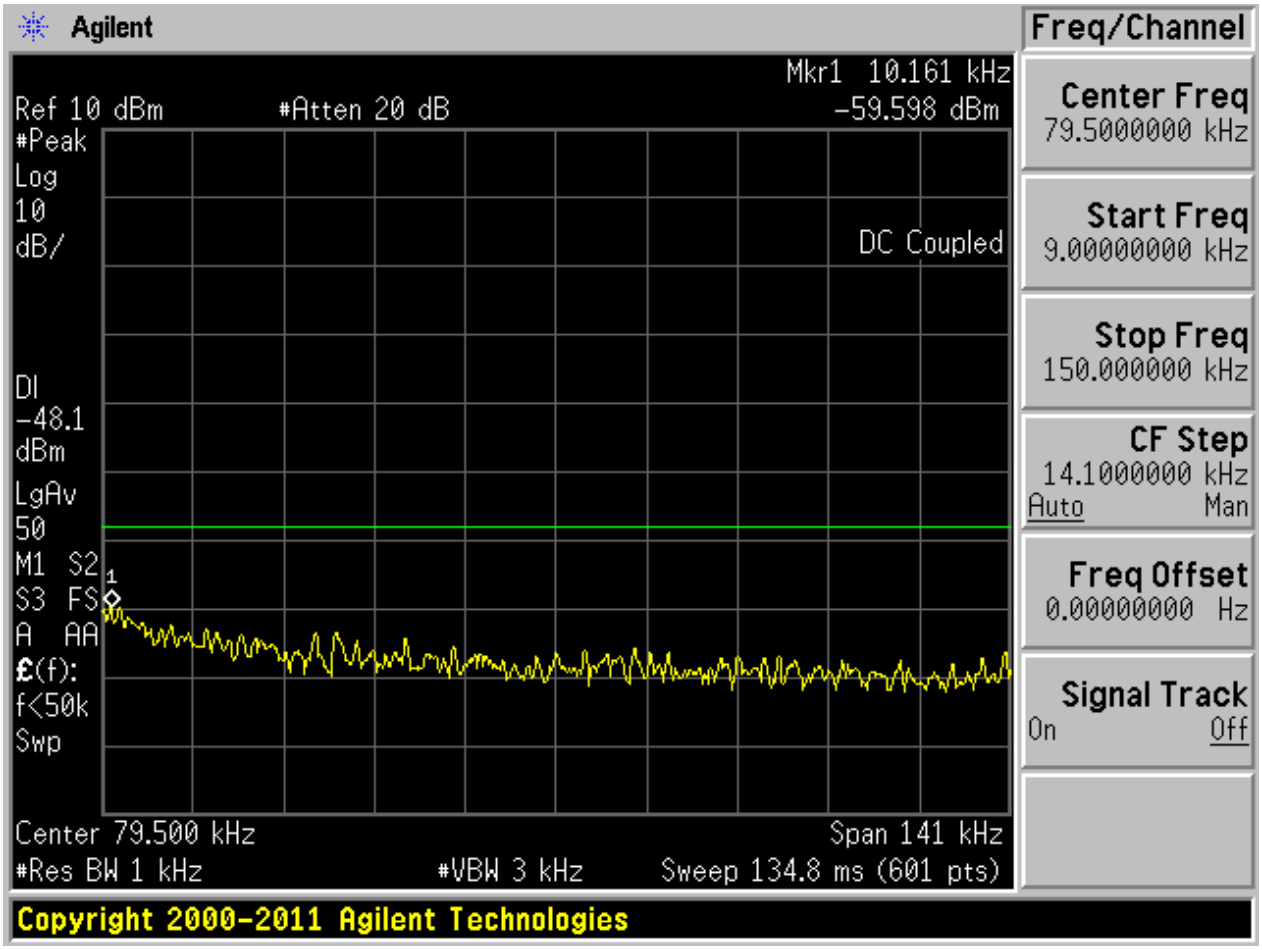

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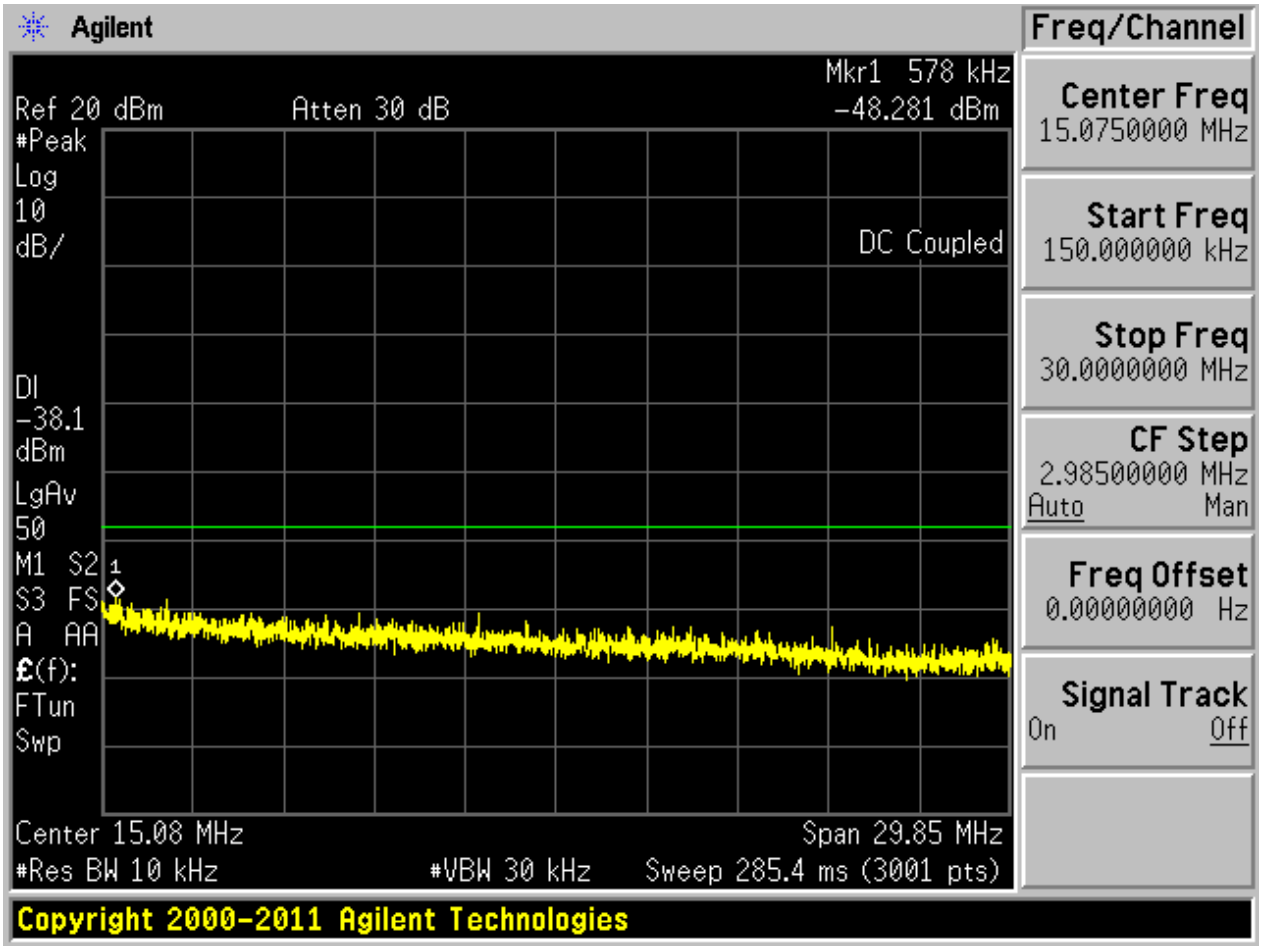

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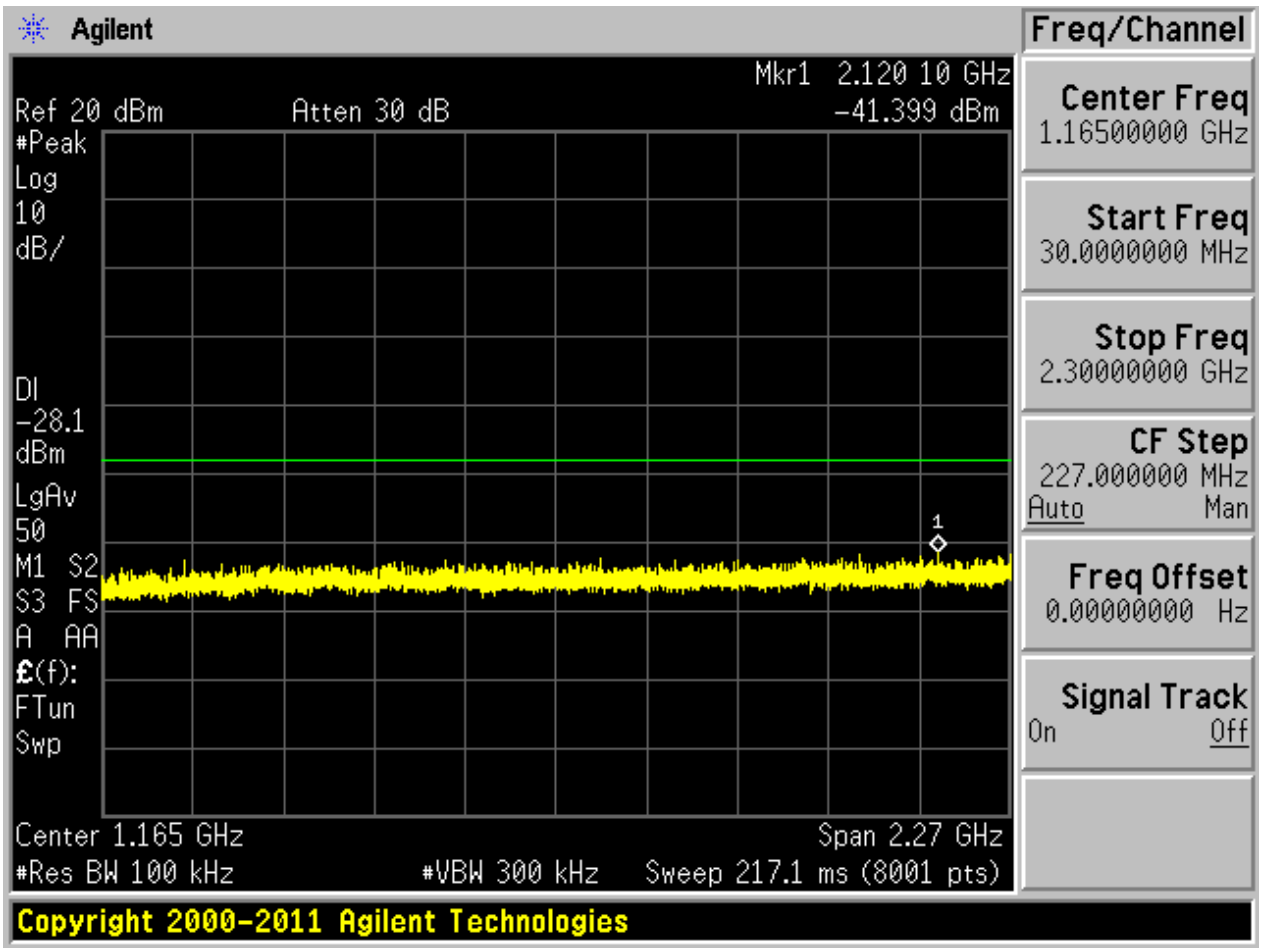

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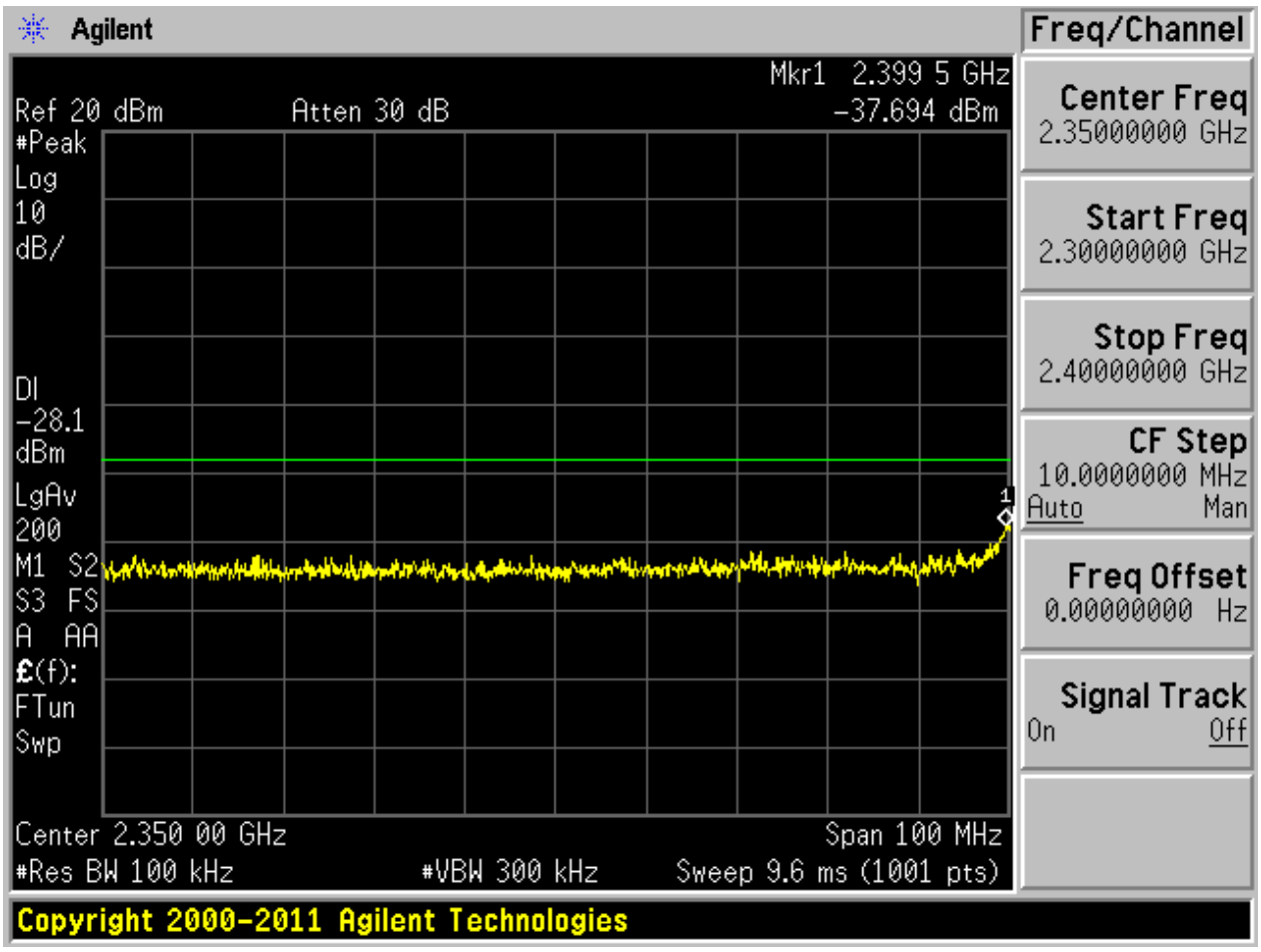

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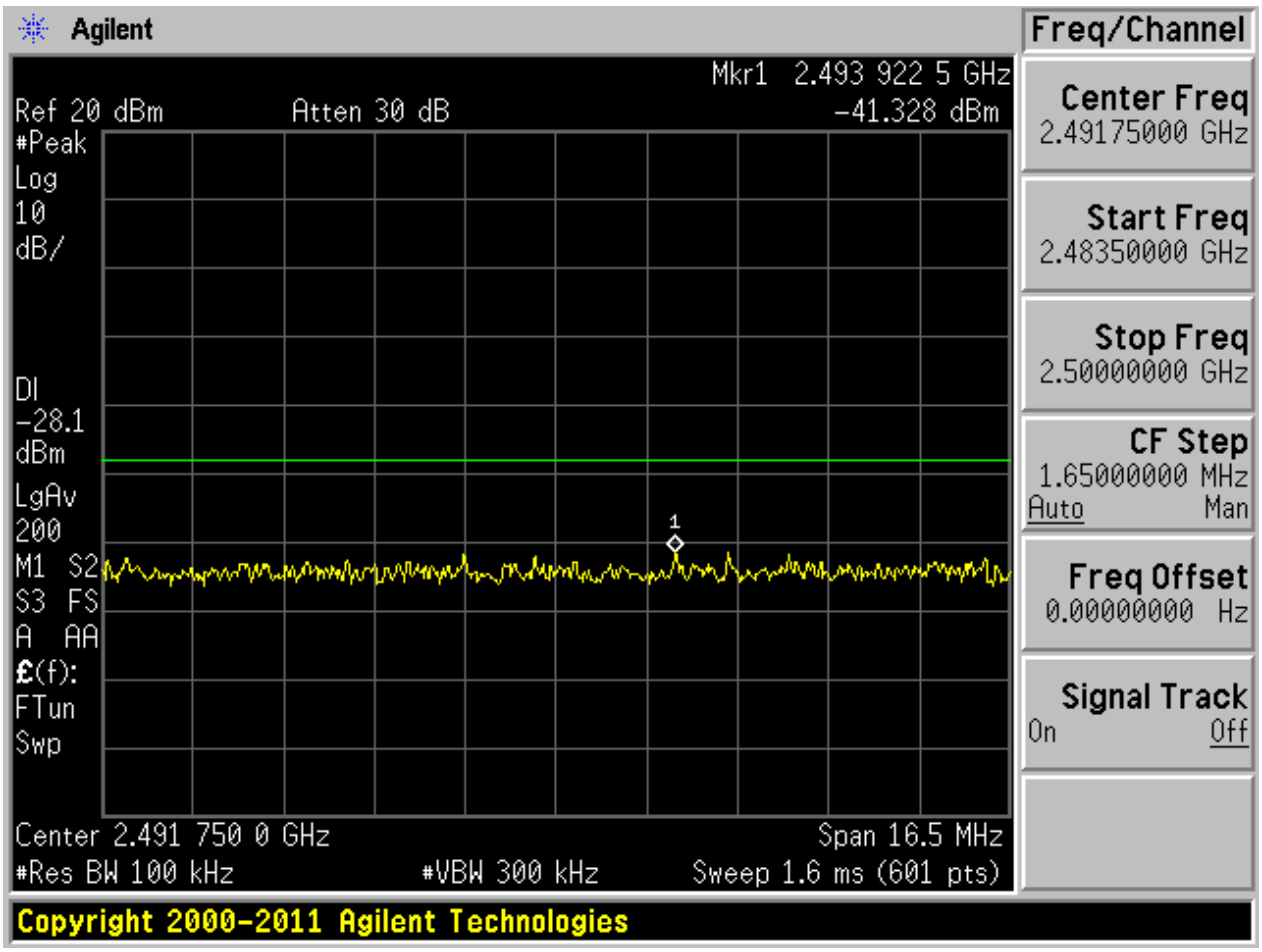

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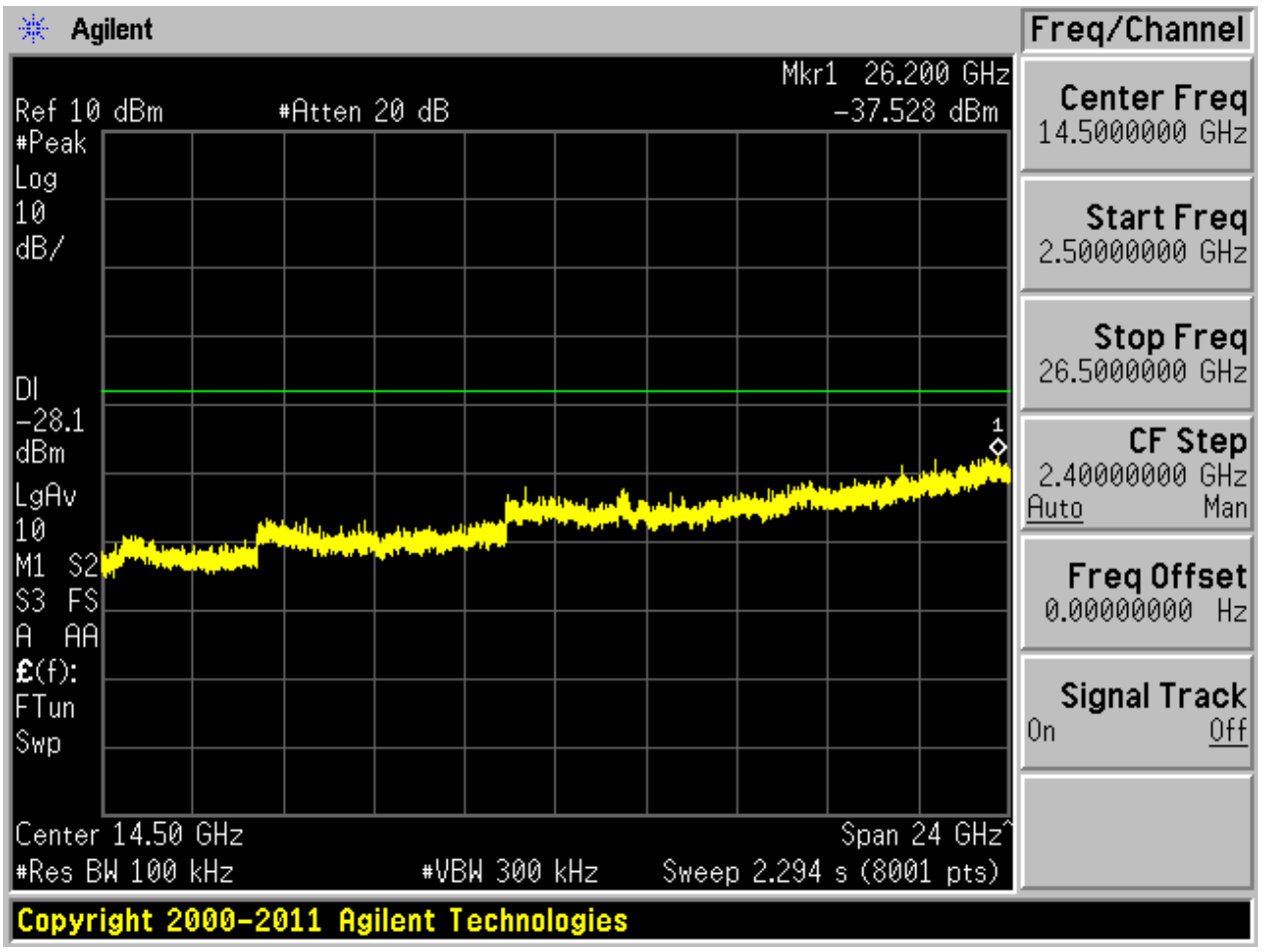

2.16.2 Ant 2

2.16.2.1 Pref

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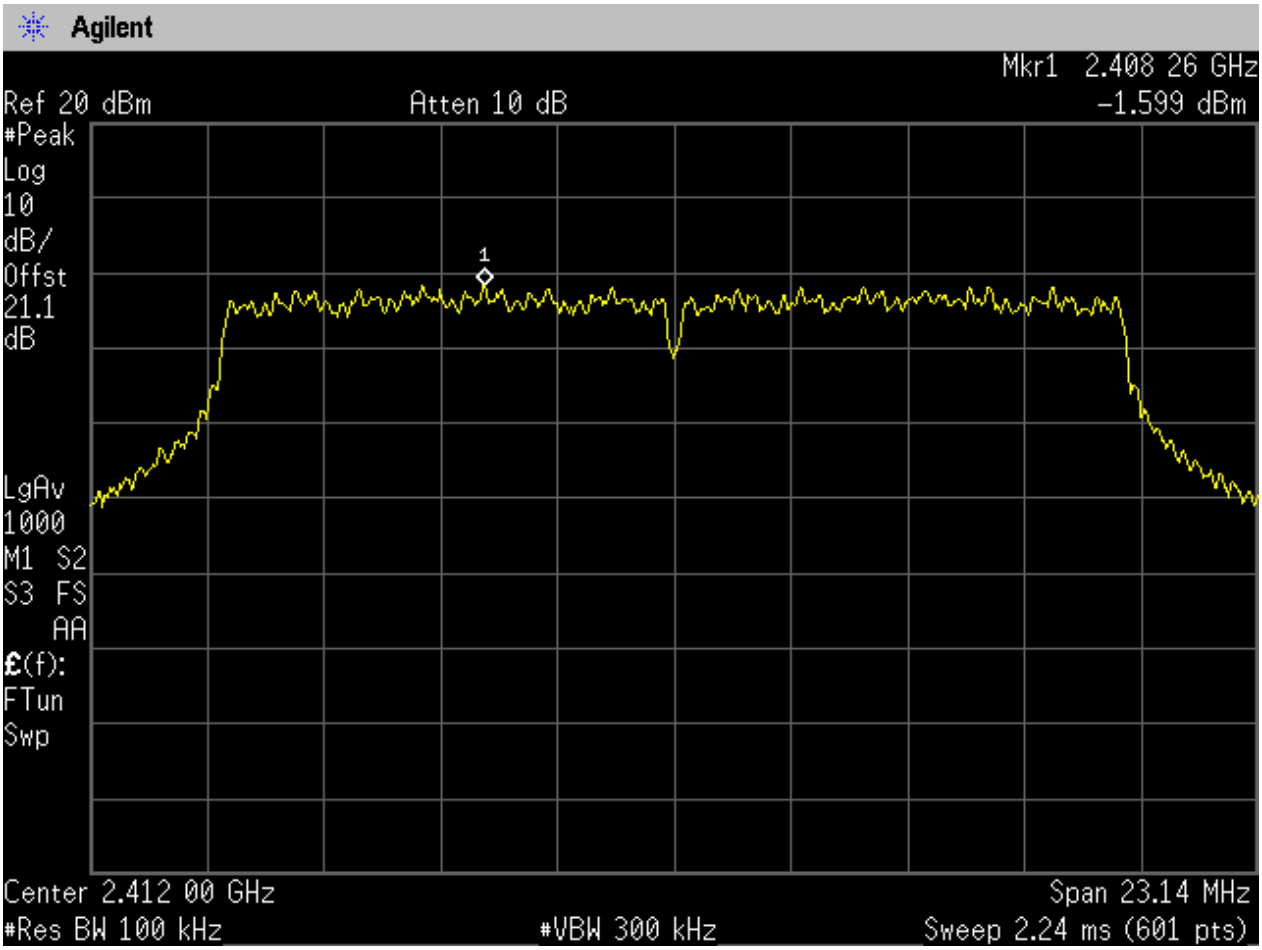

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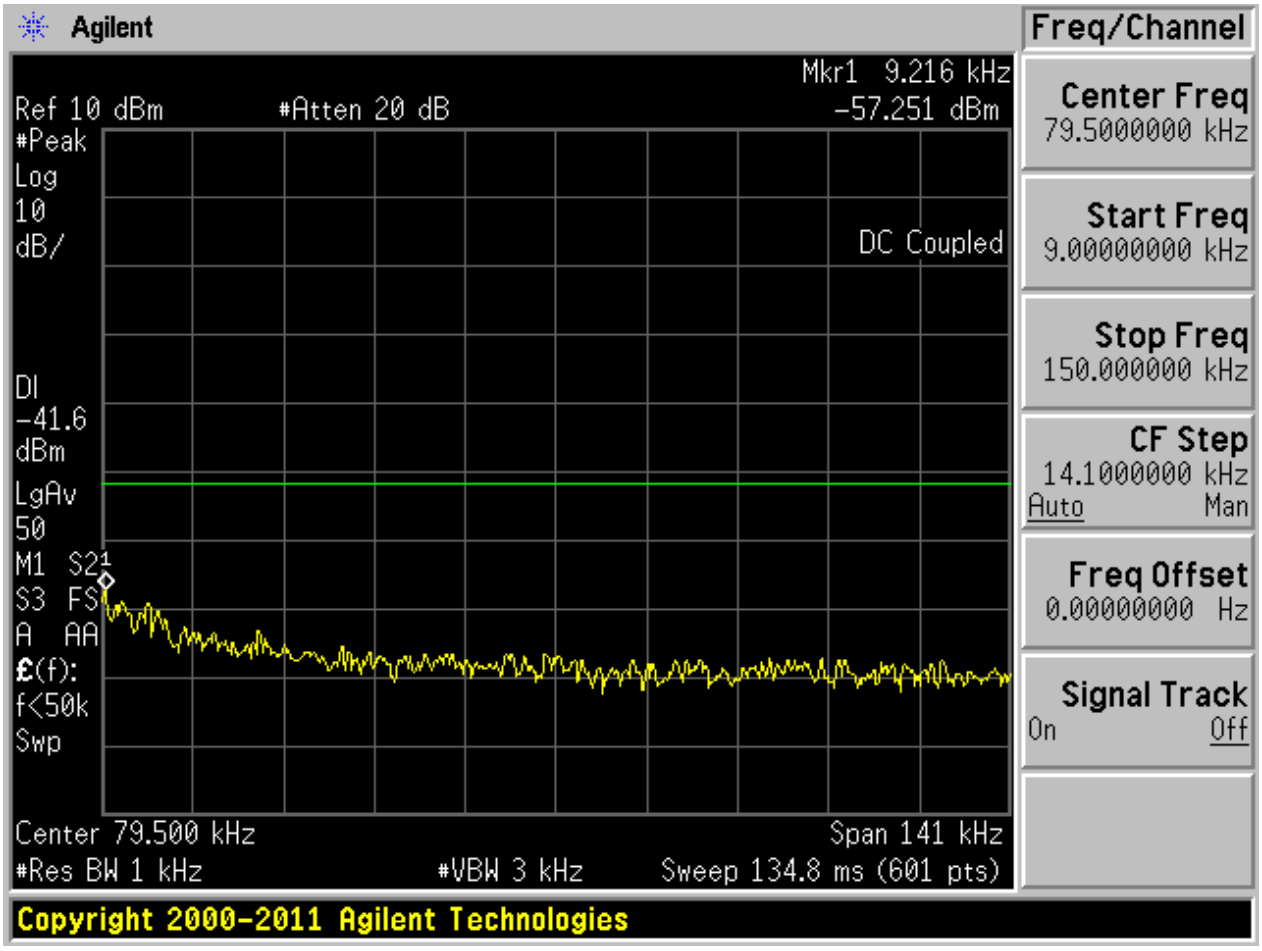

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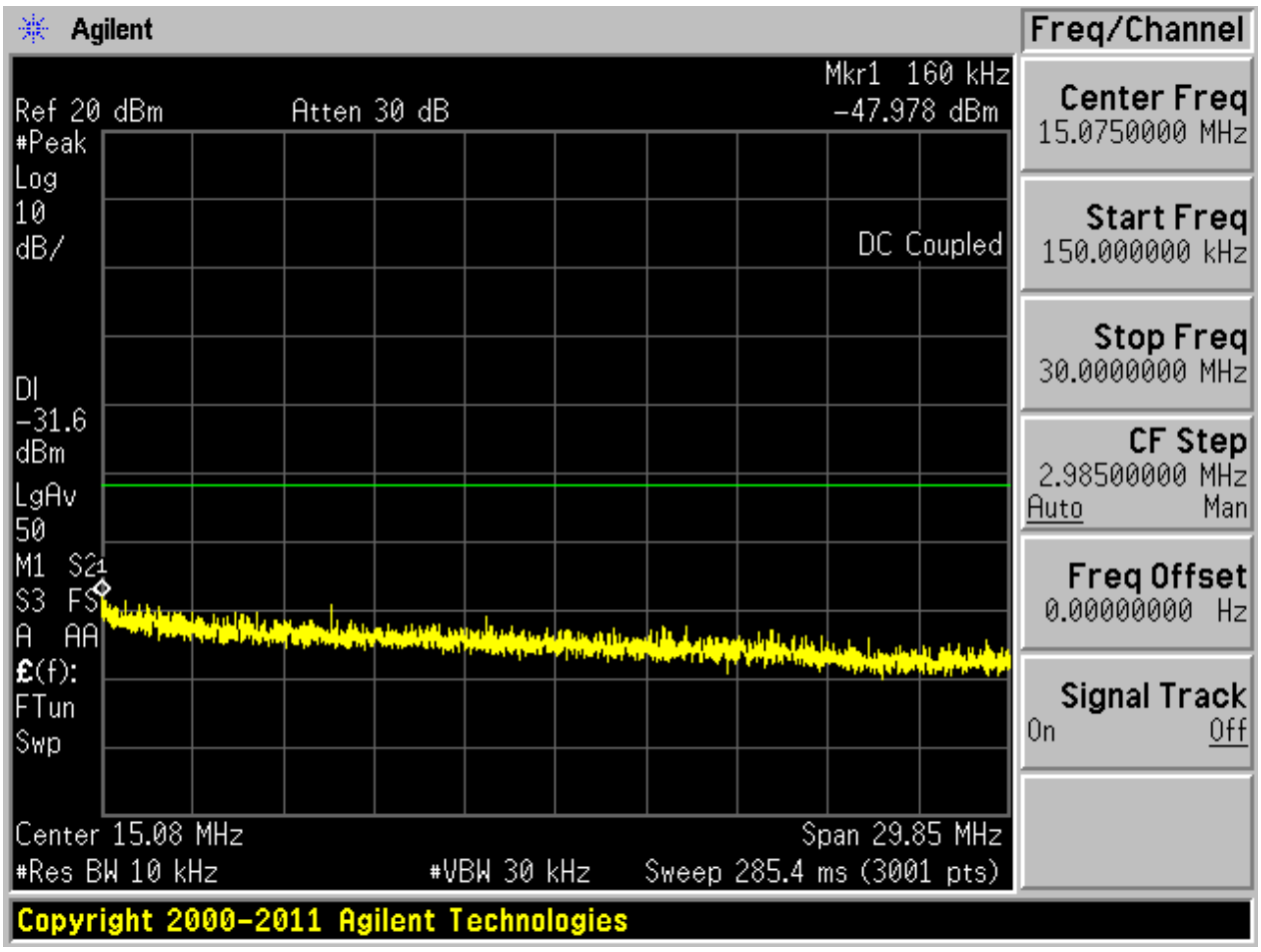

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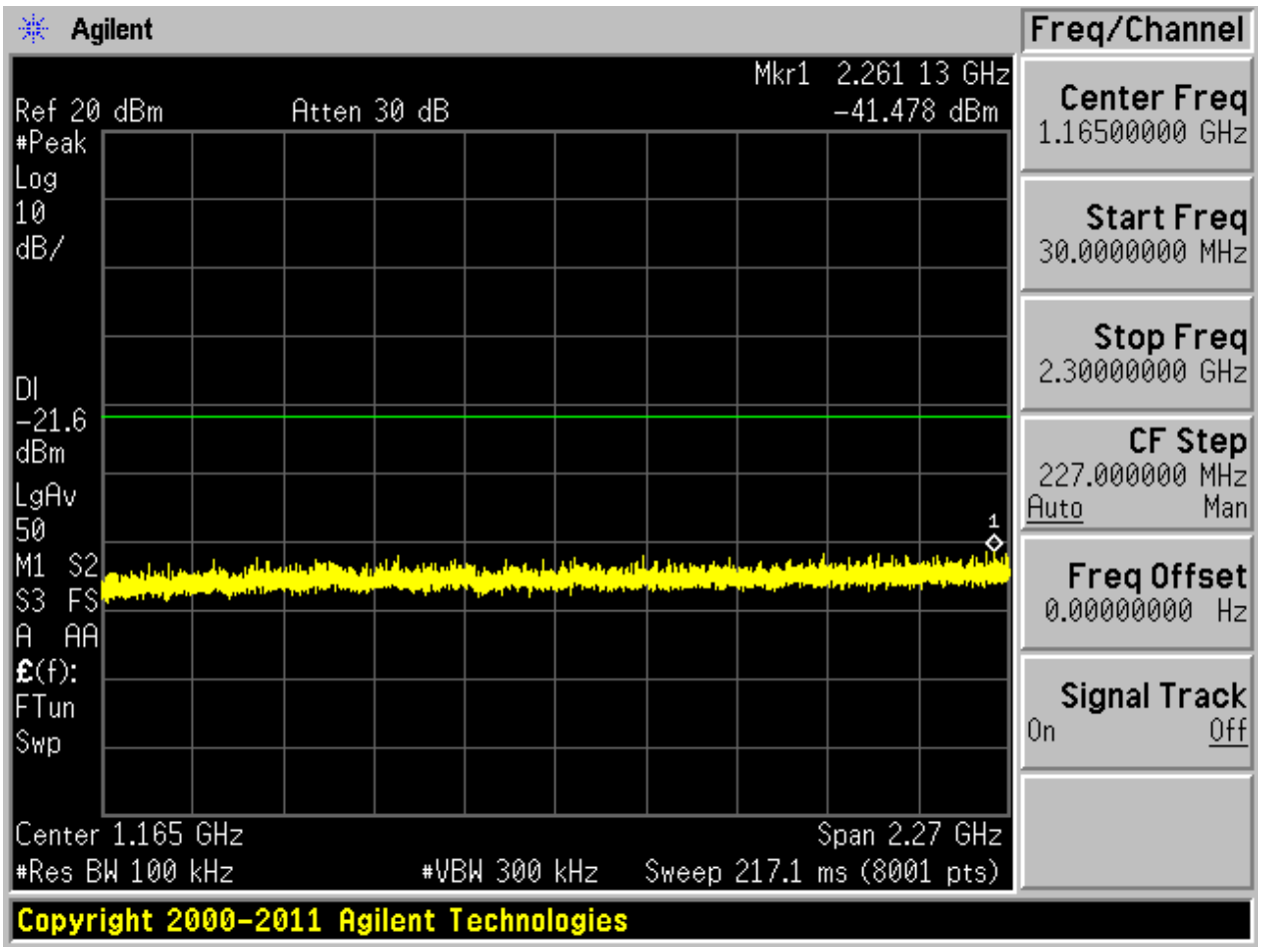

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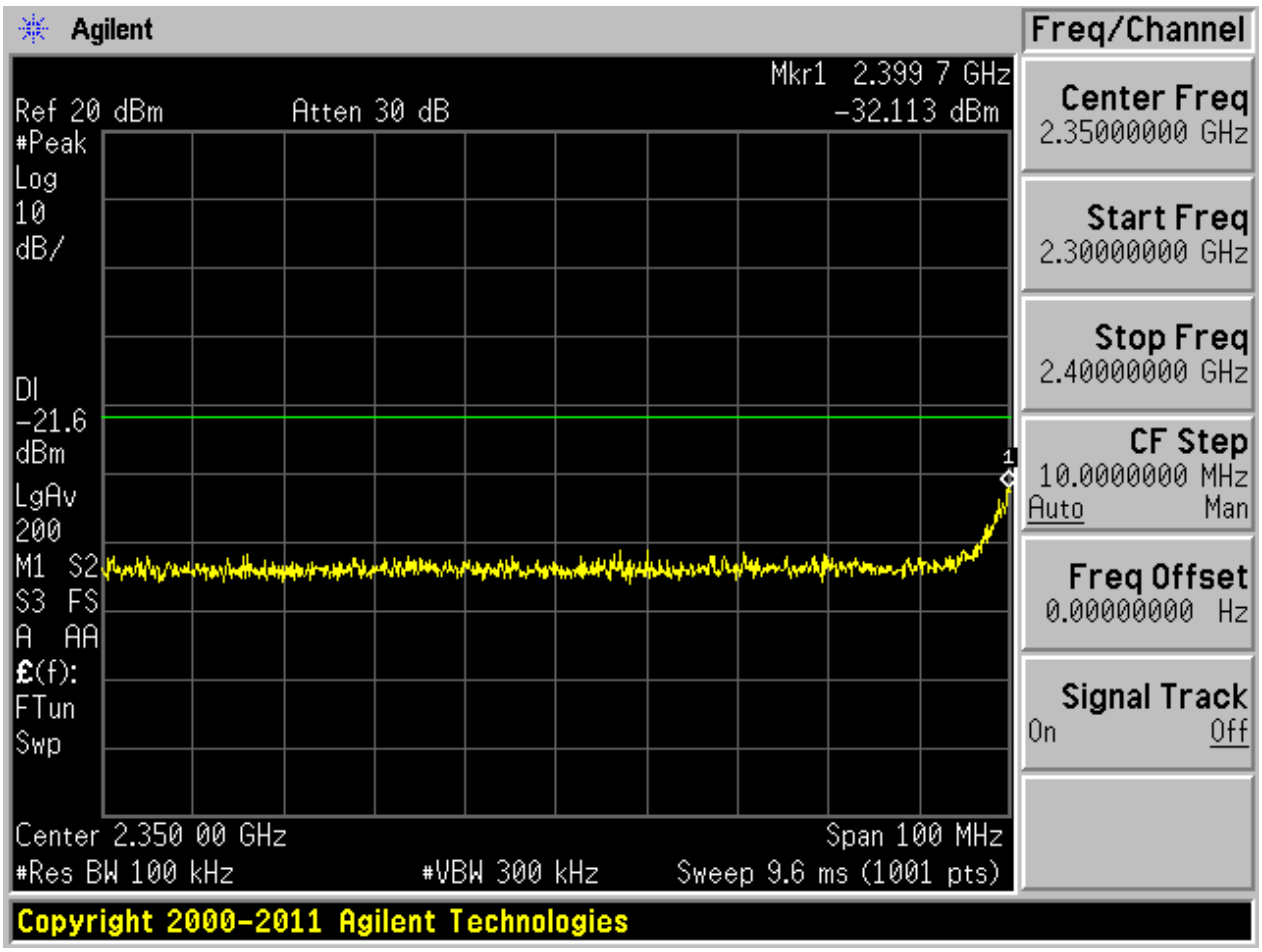

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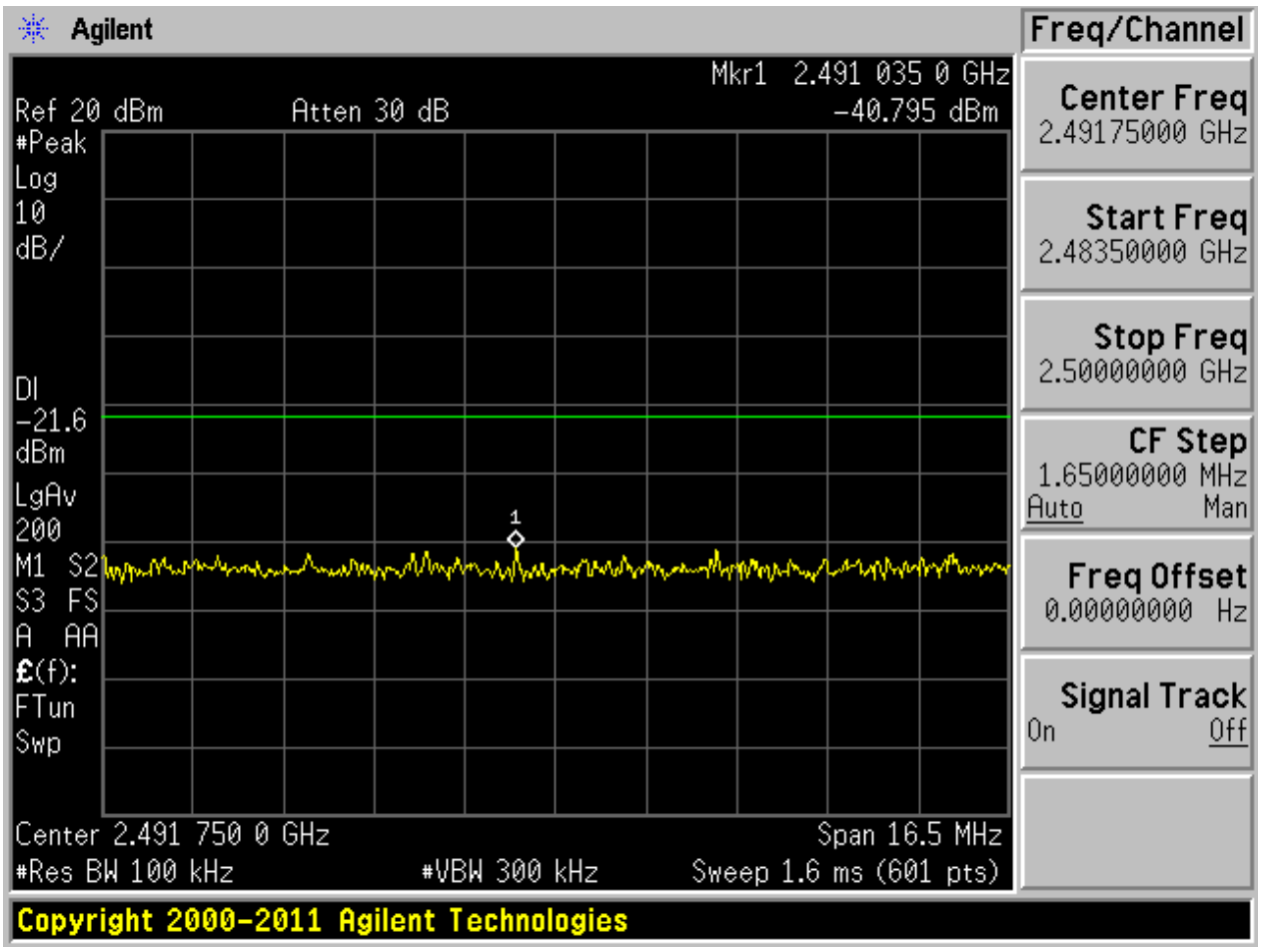

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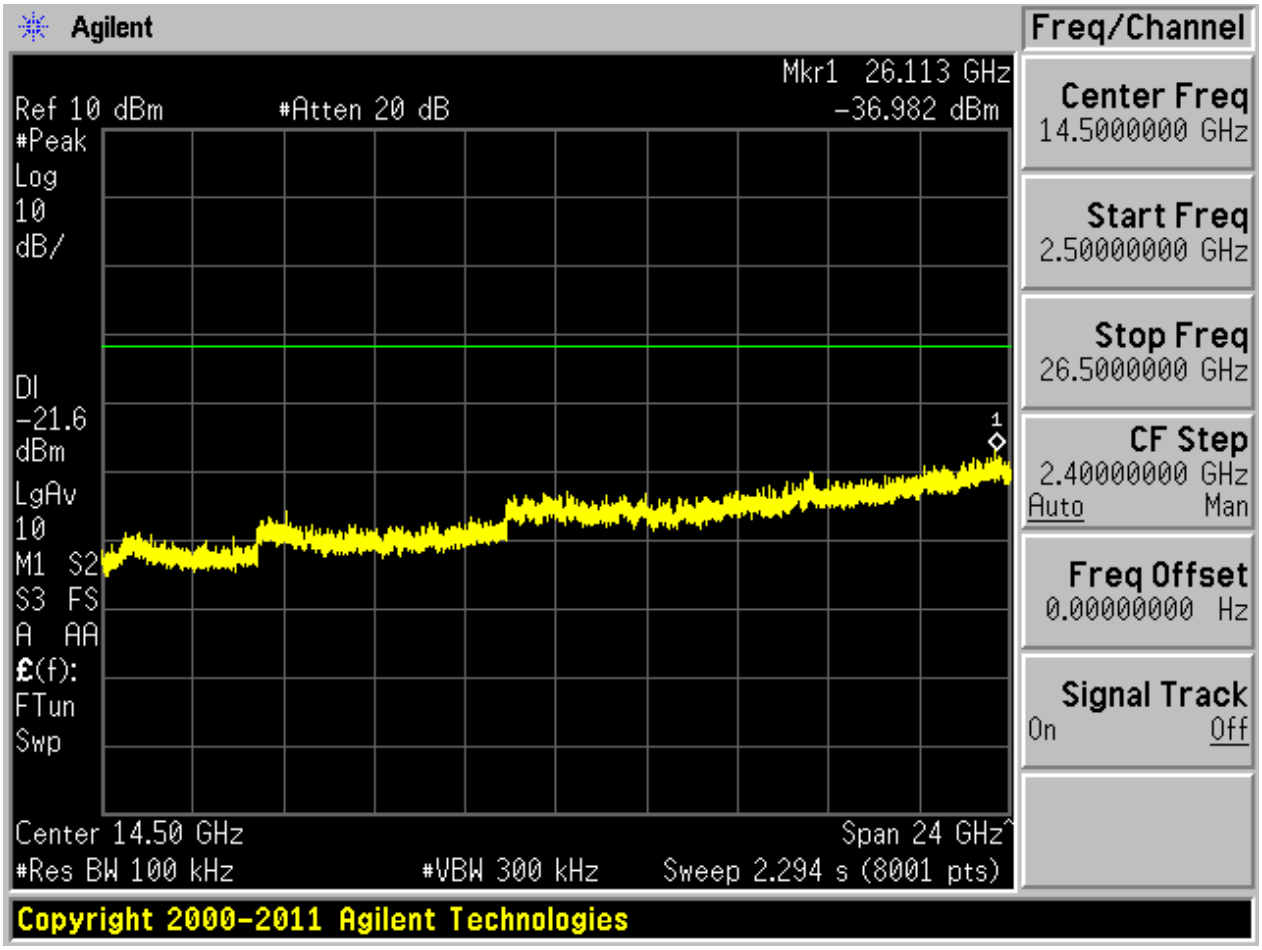

2.1711N20m/8_M@1+2

2.17.1 Ant 1

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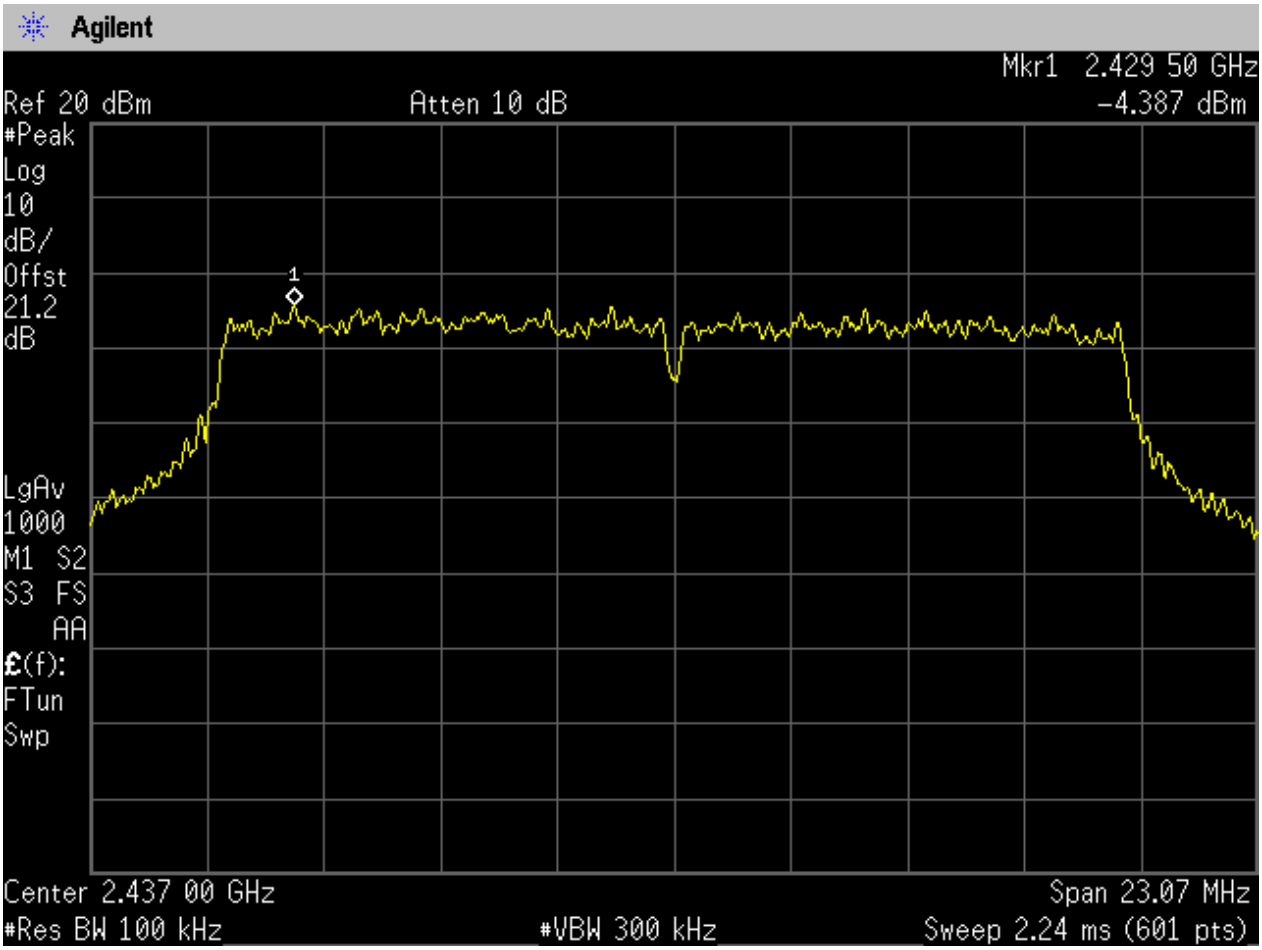

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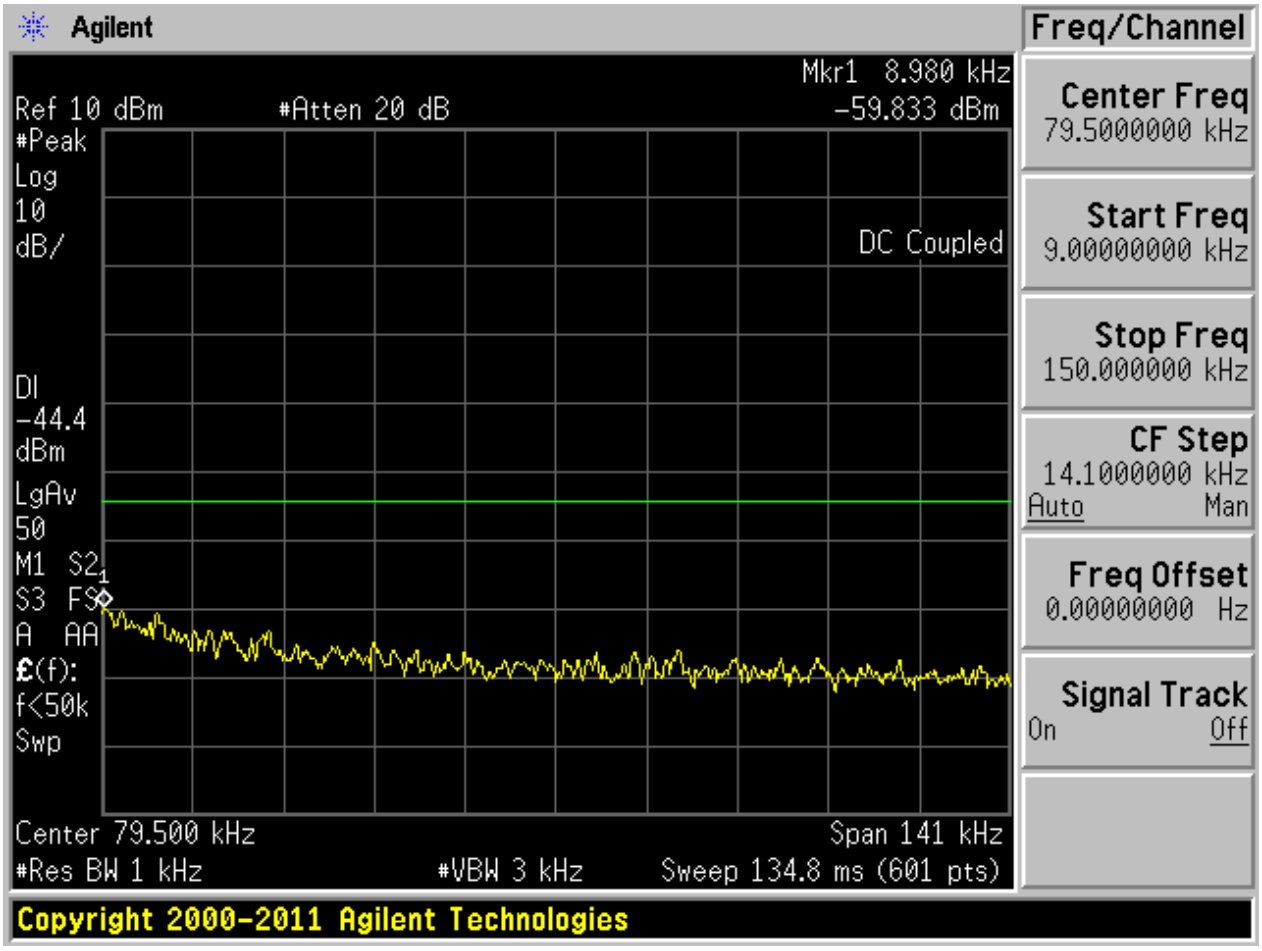

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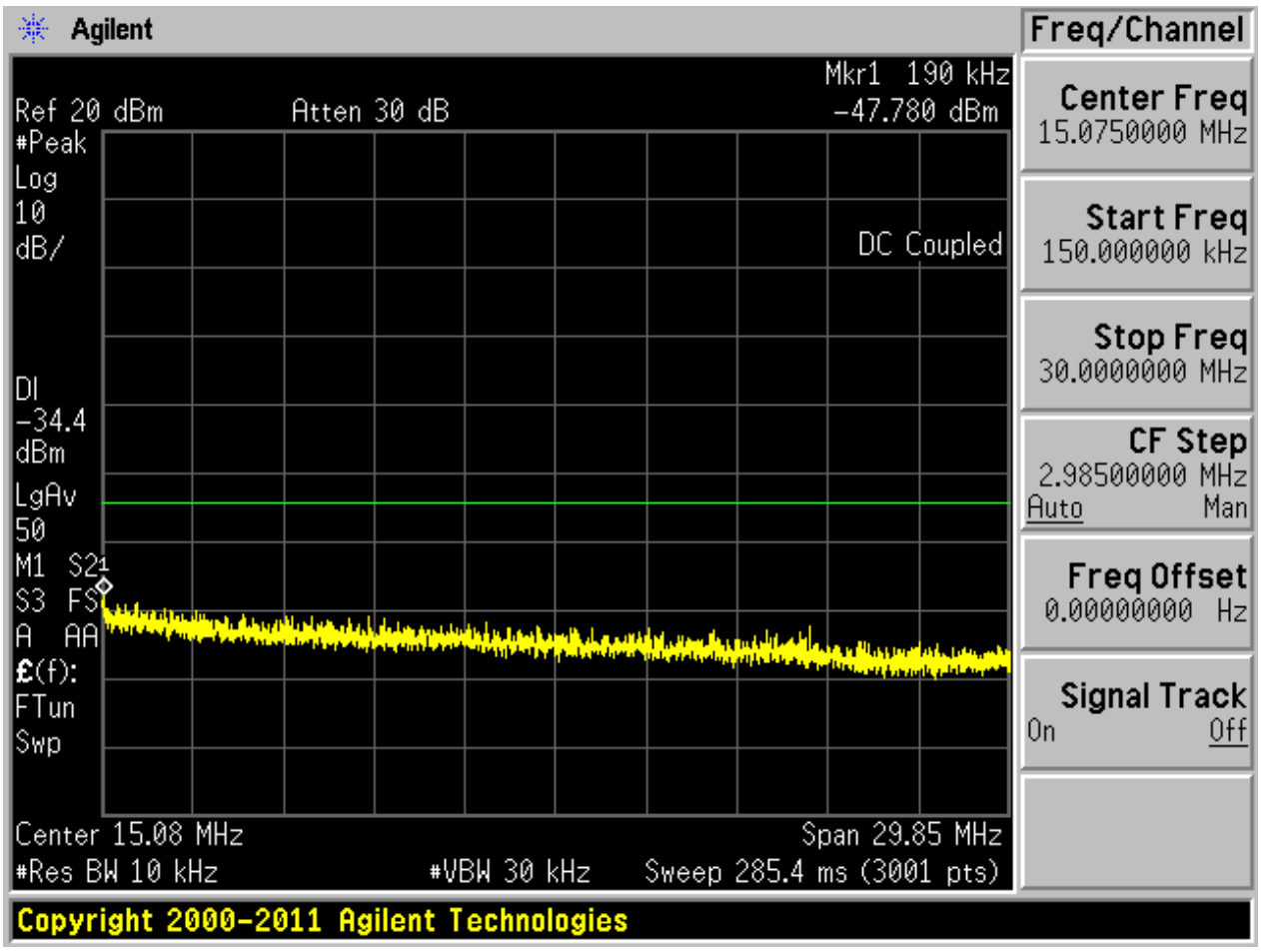

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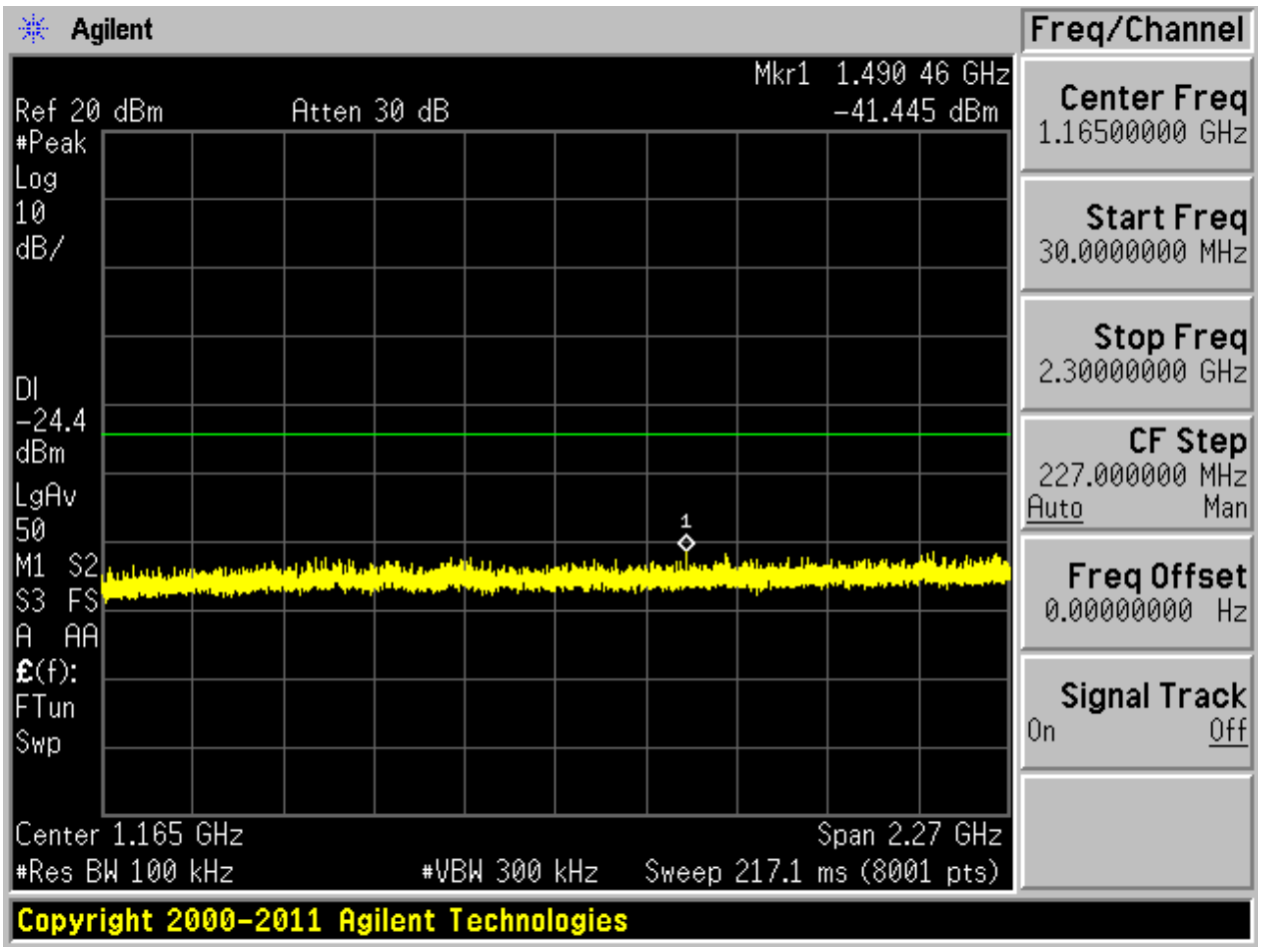

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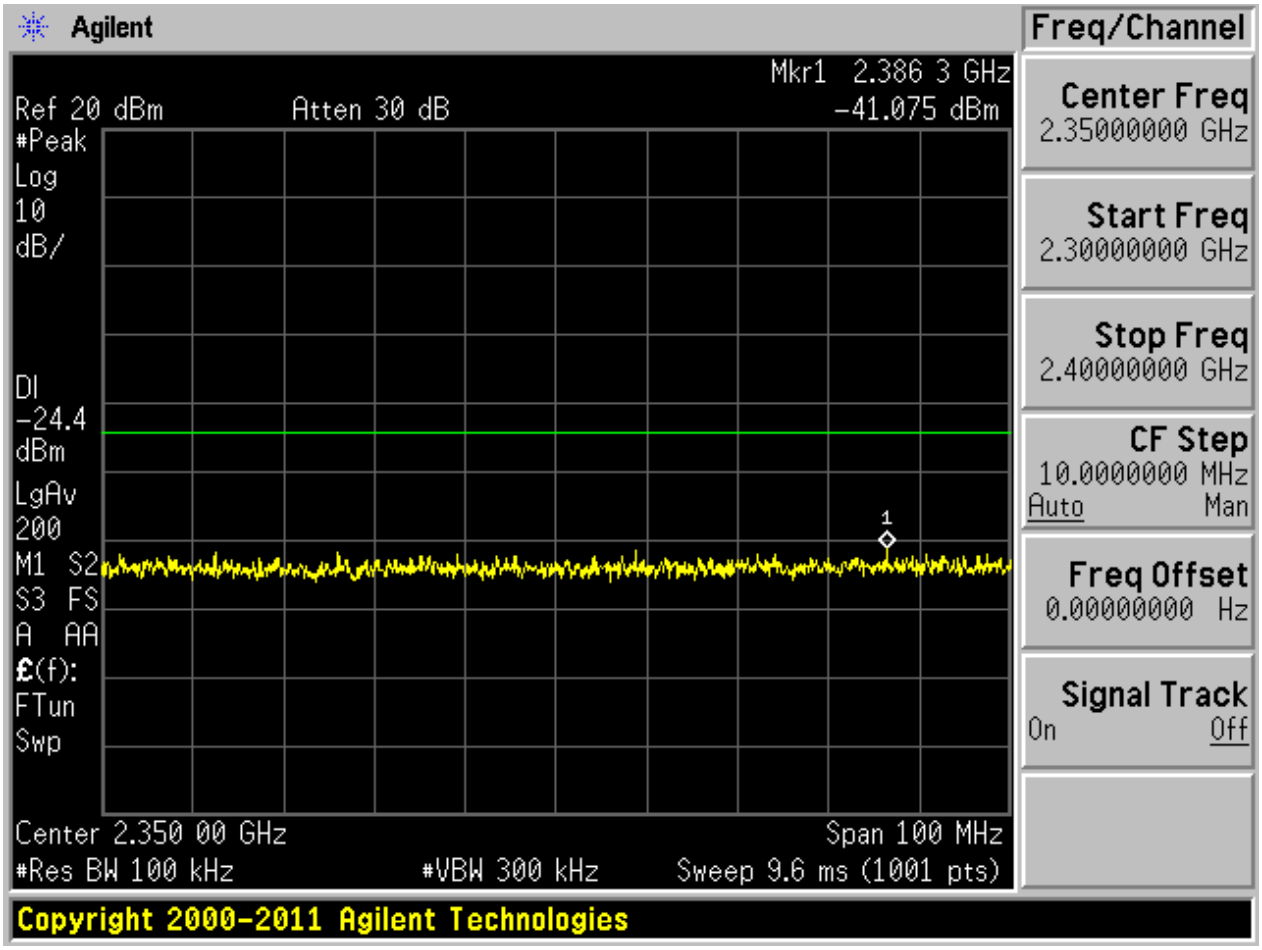

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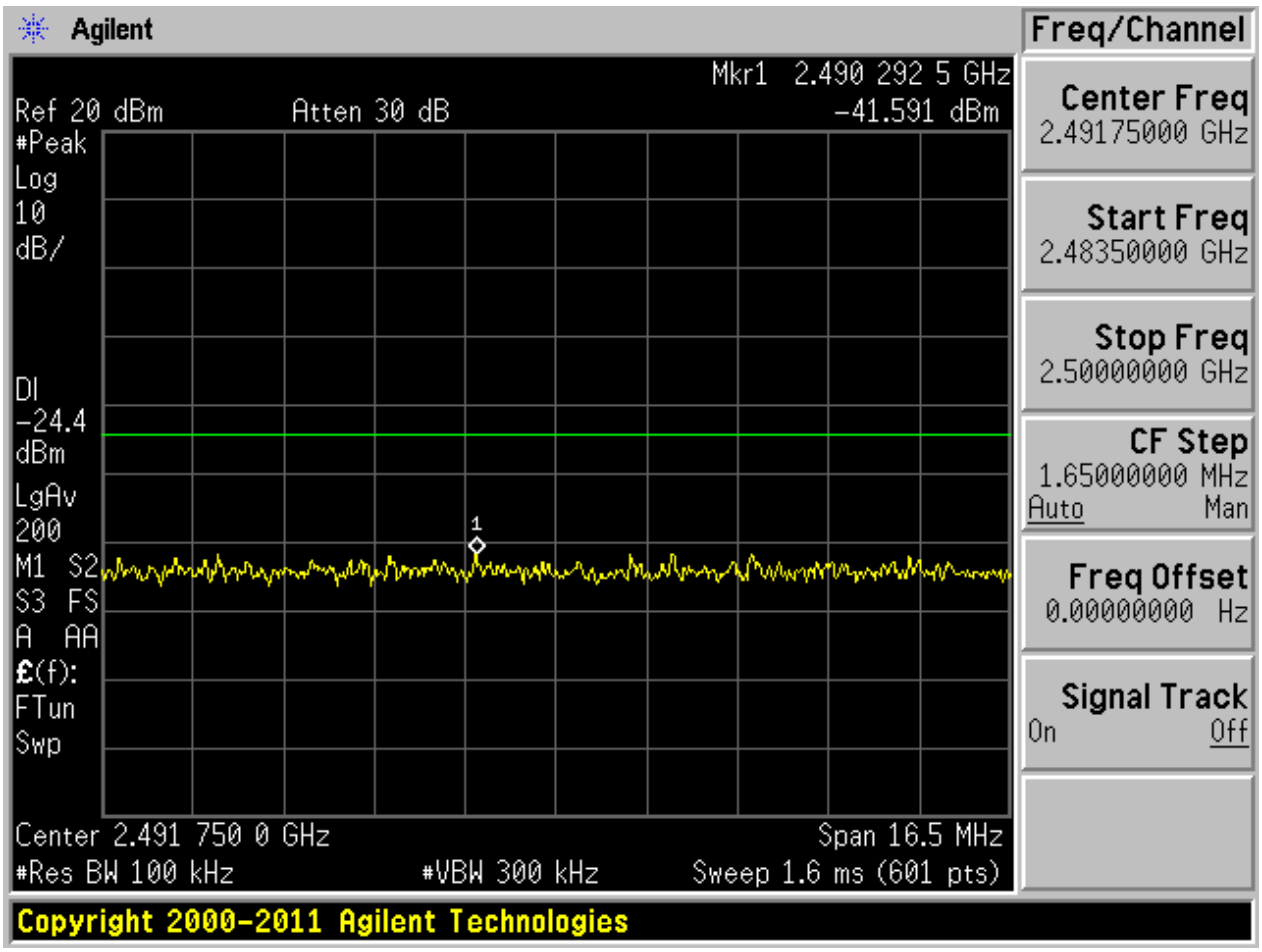

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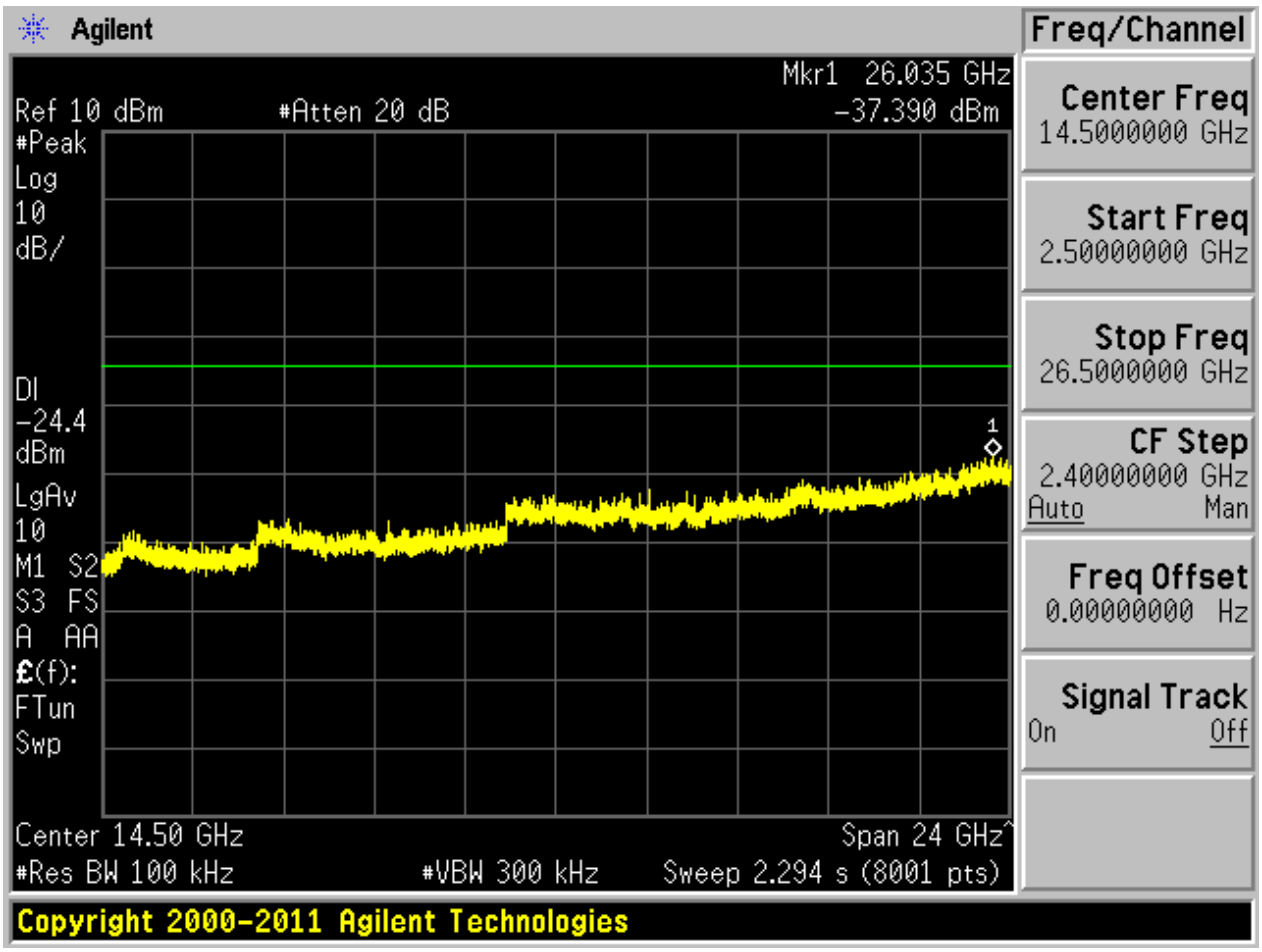

2.17.2 Ant 2

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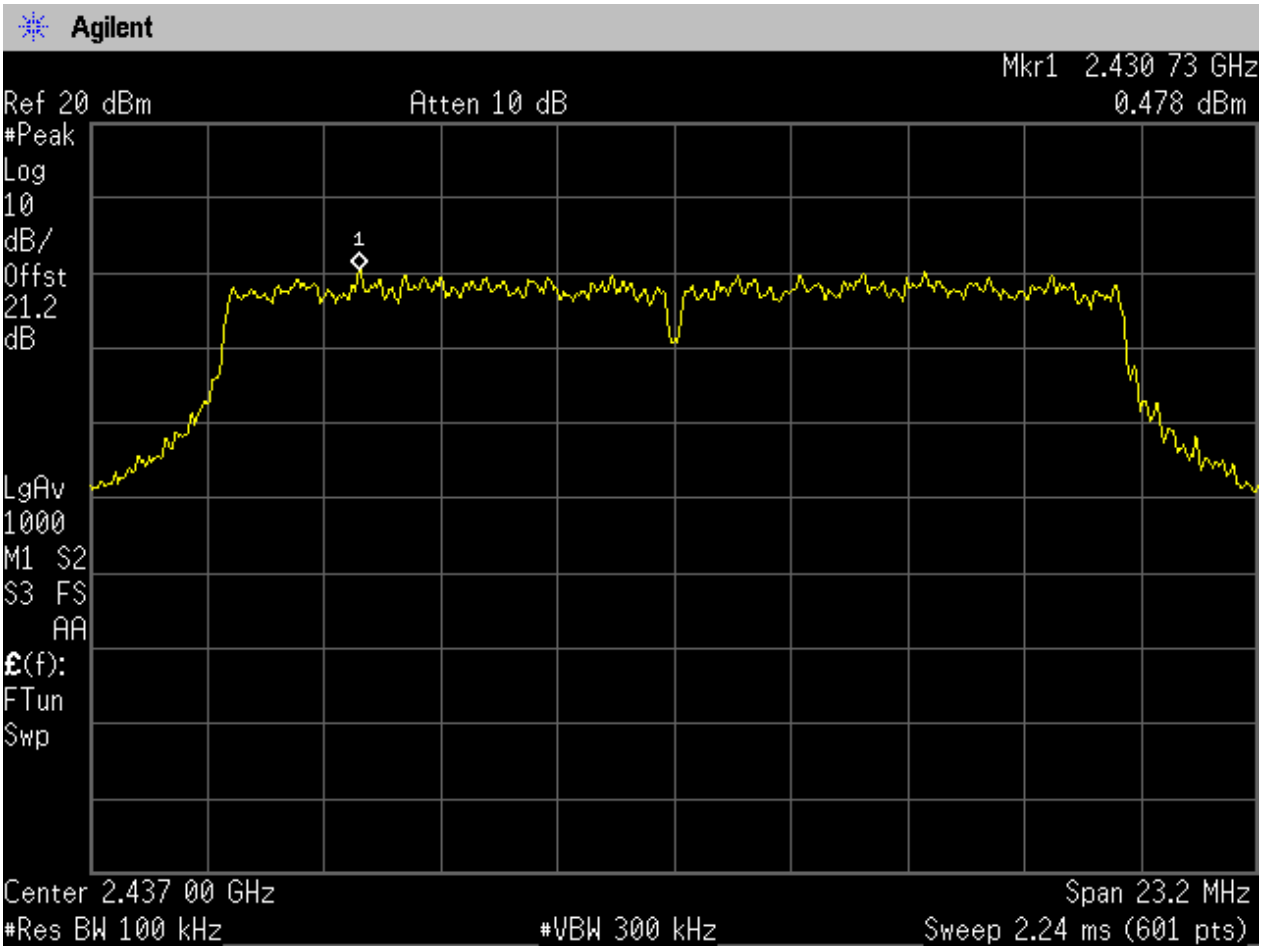

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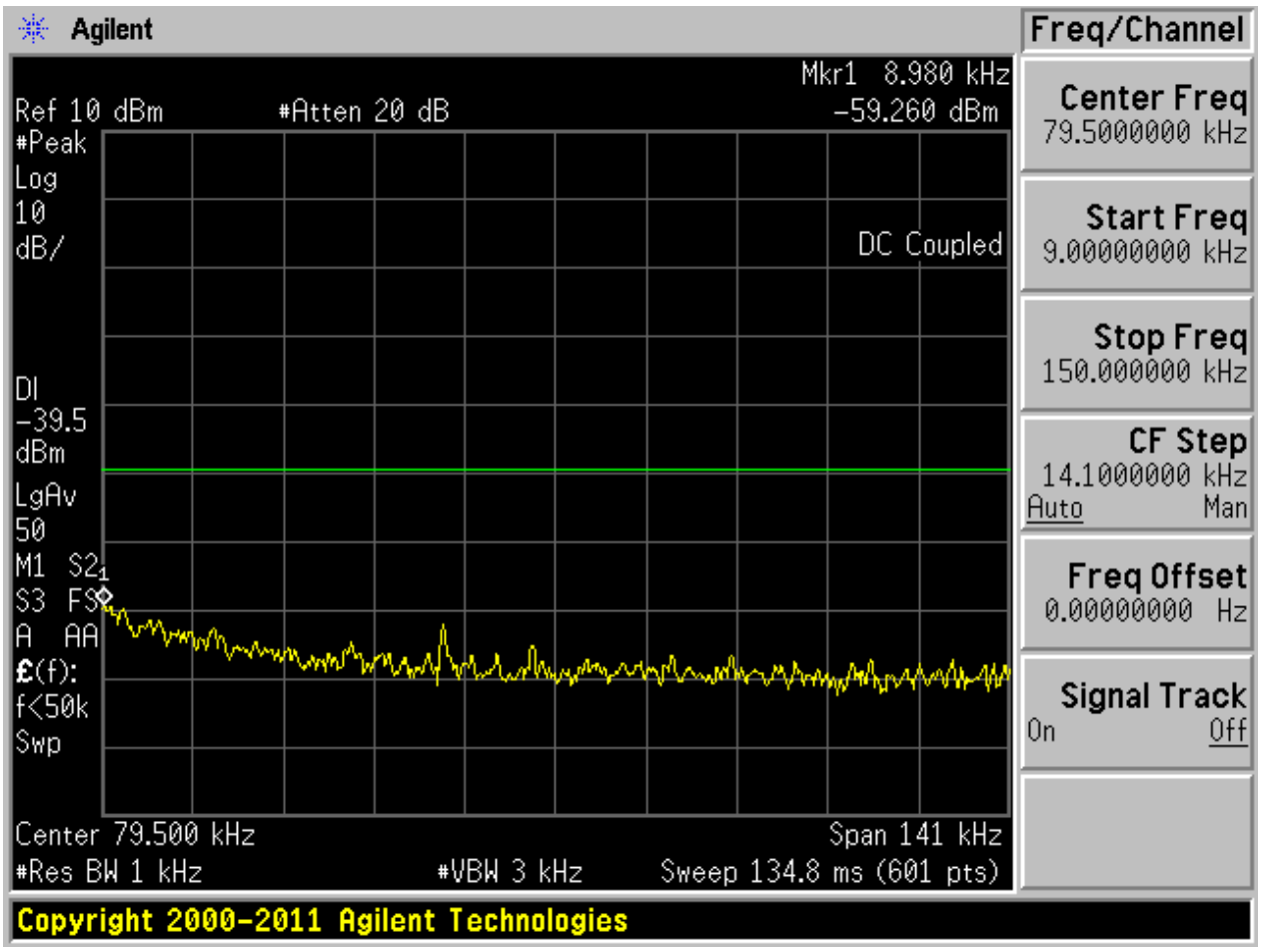

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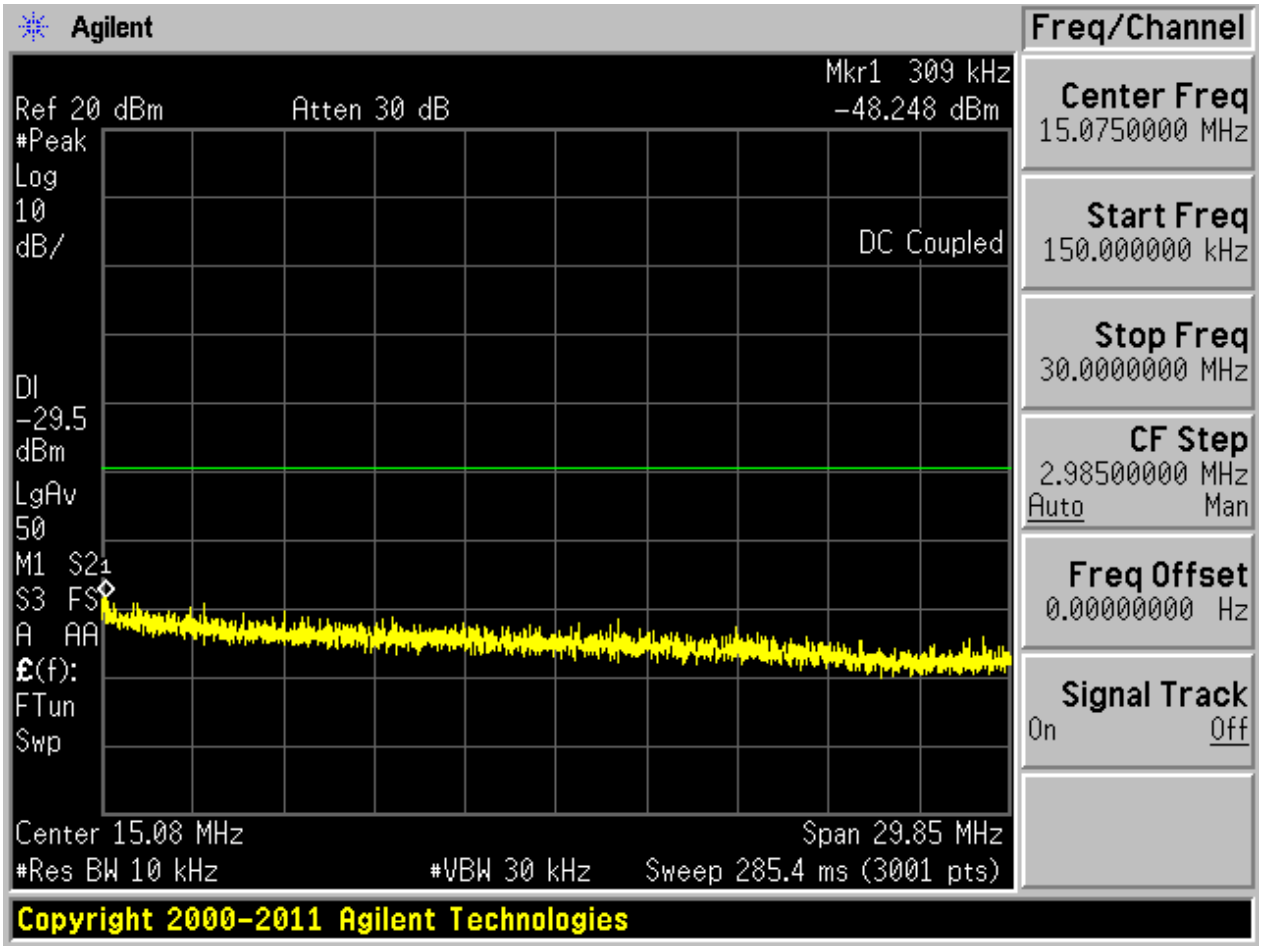

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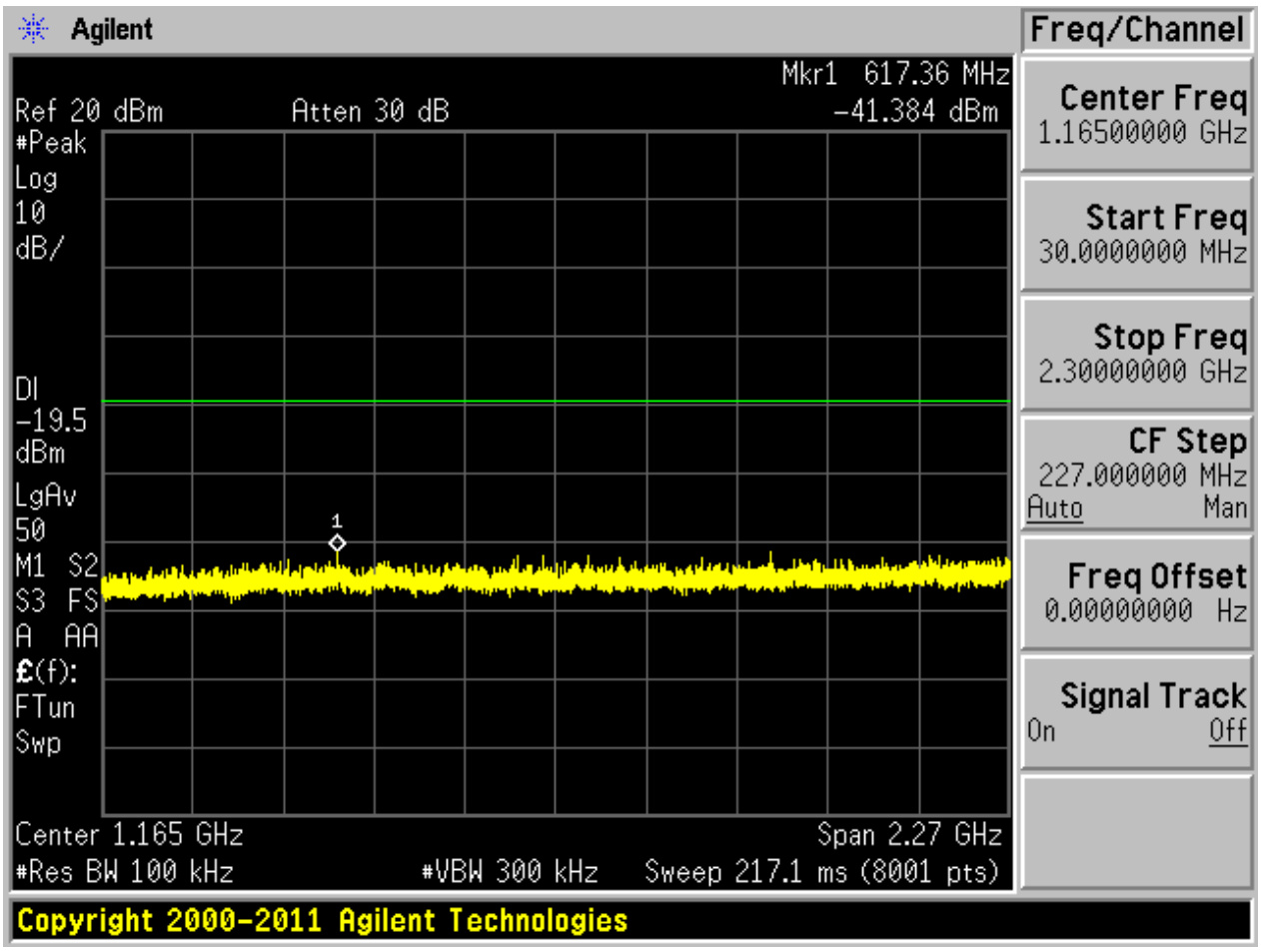

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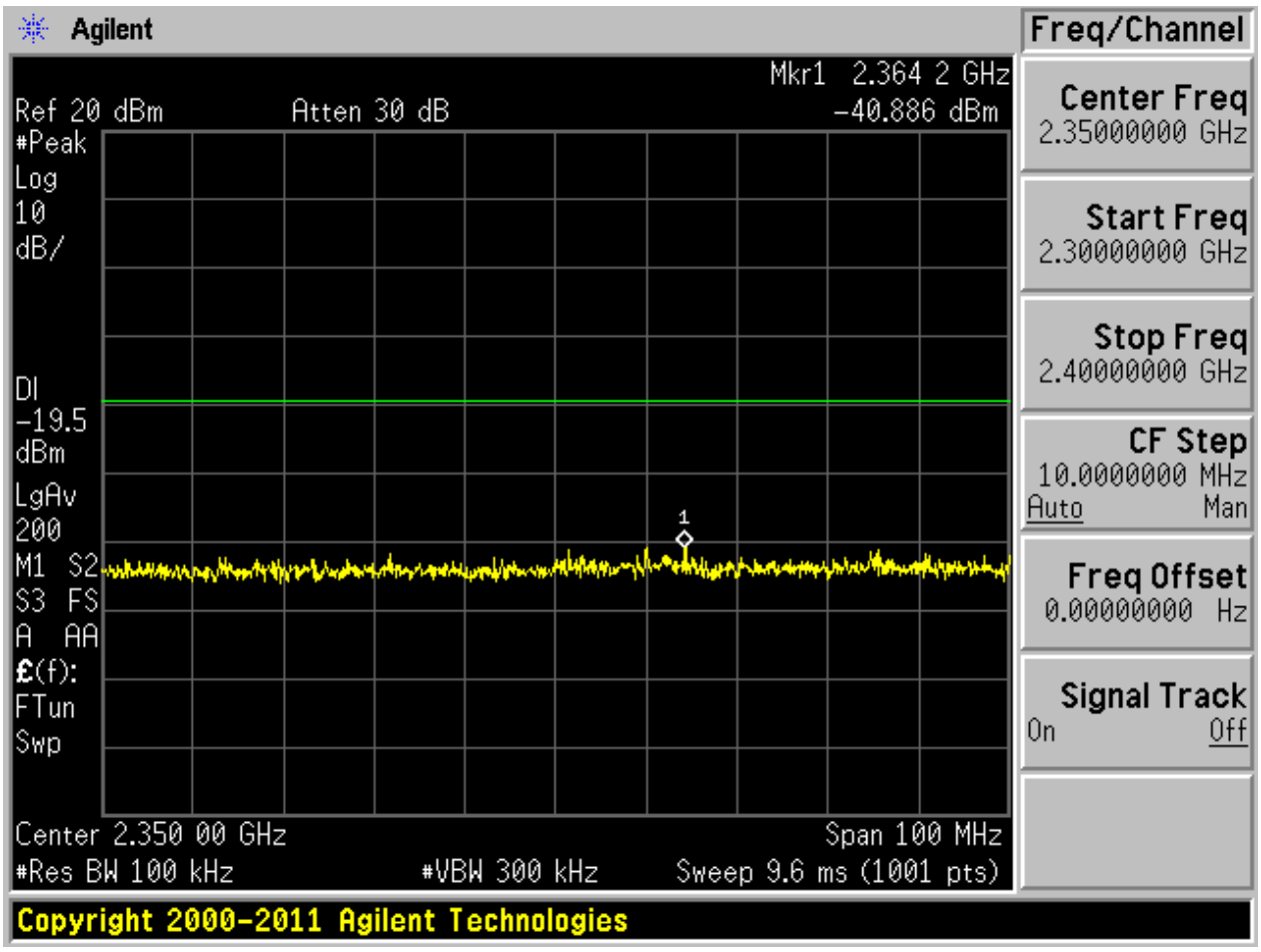

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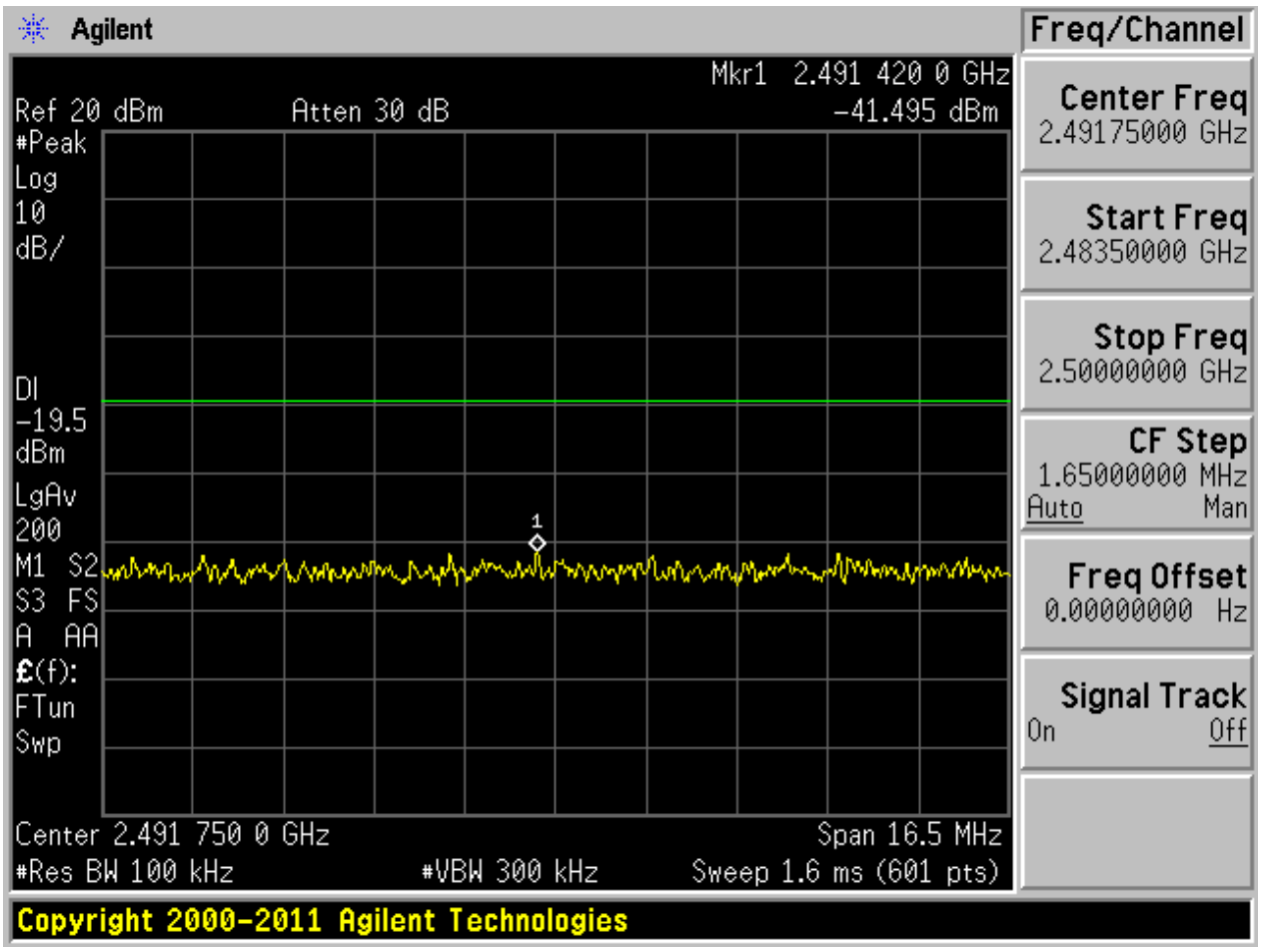

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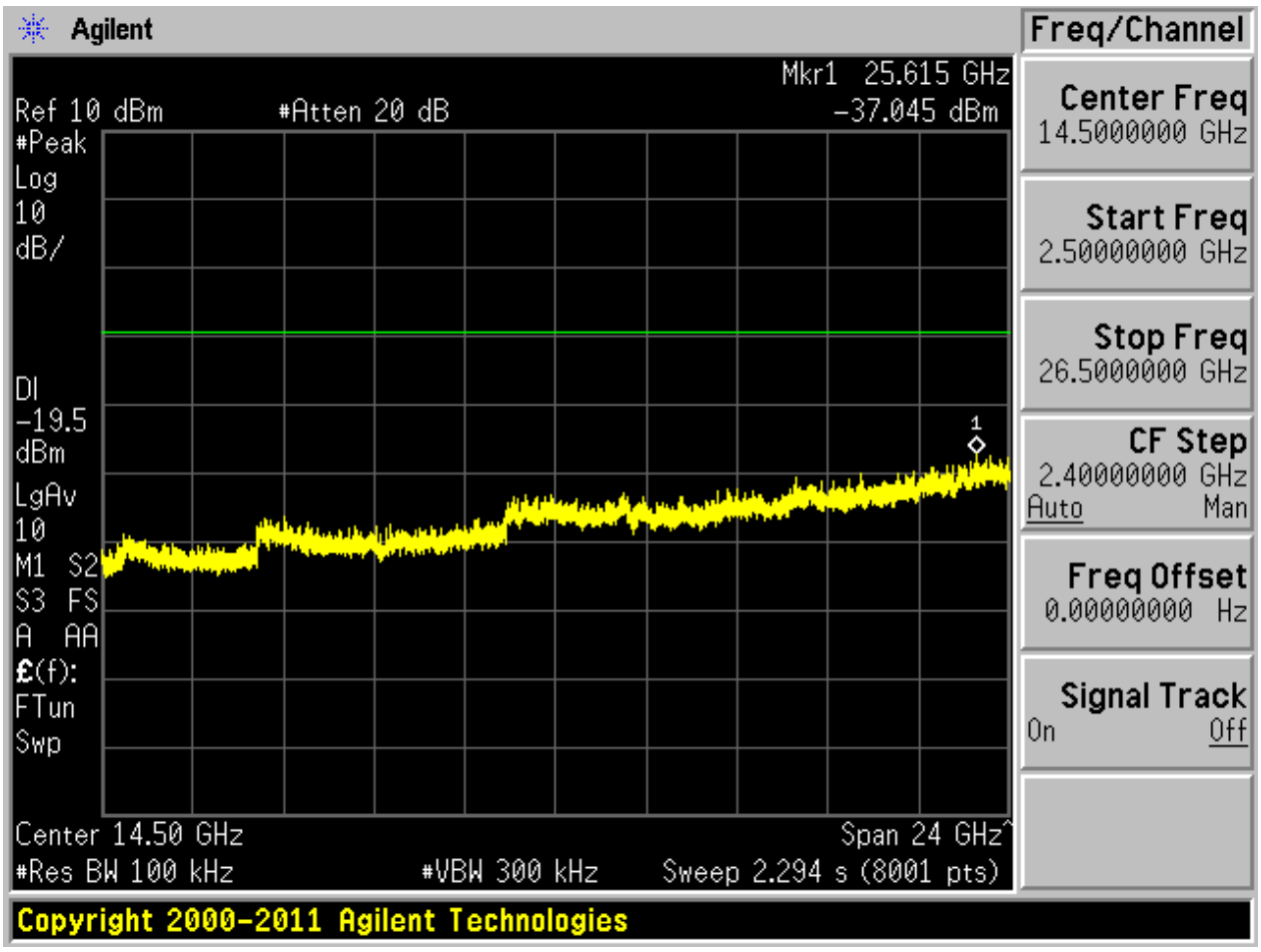

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2.18.1 Ant 1

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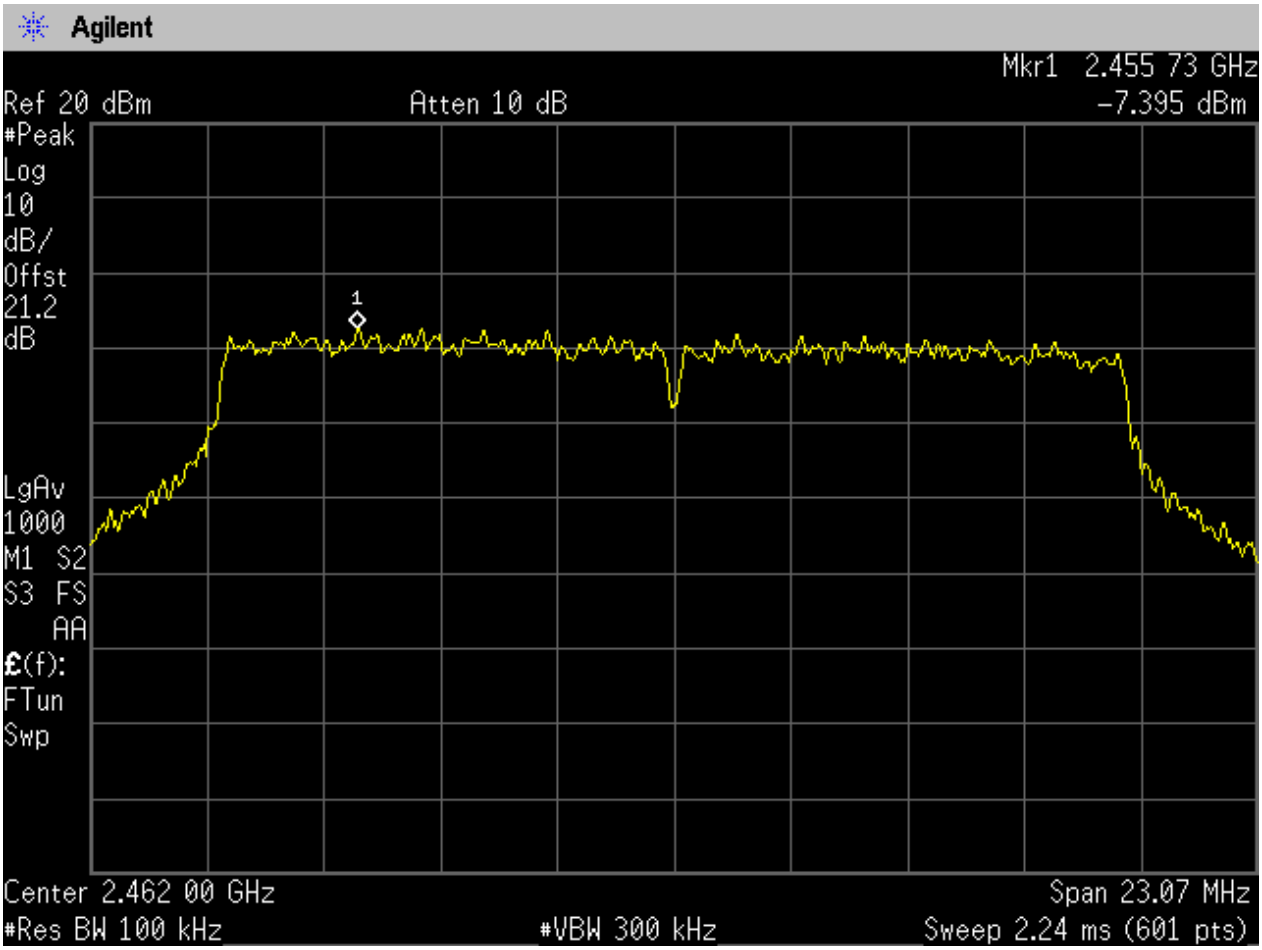

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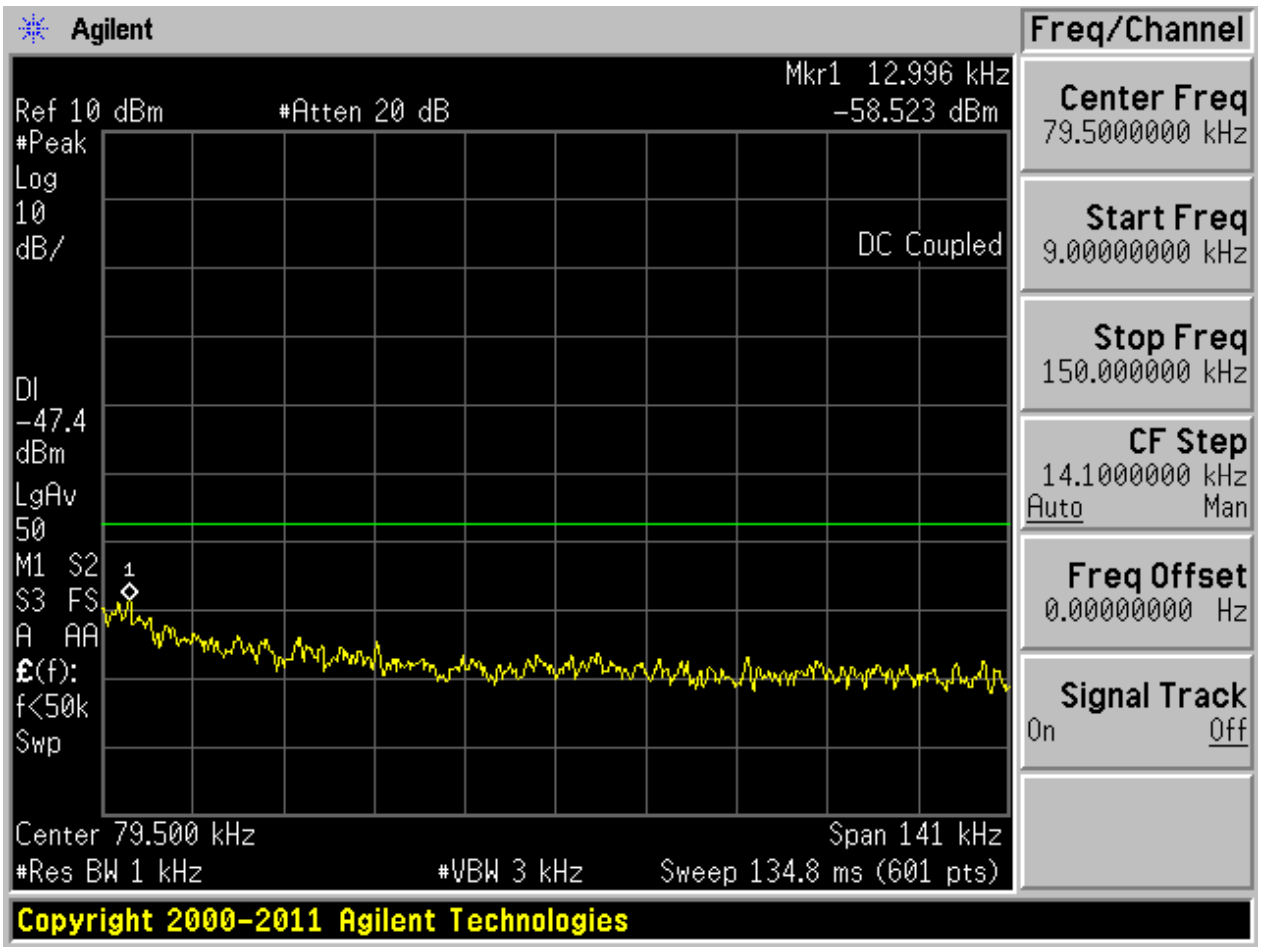

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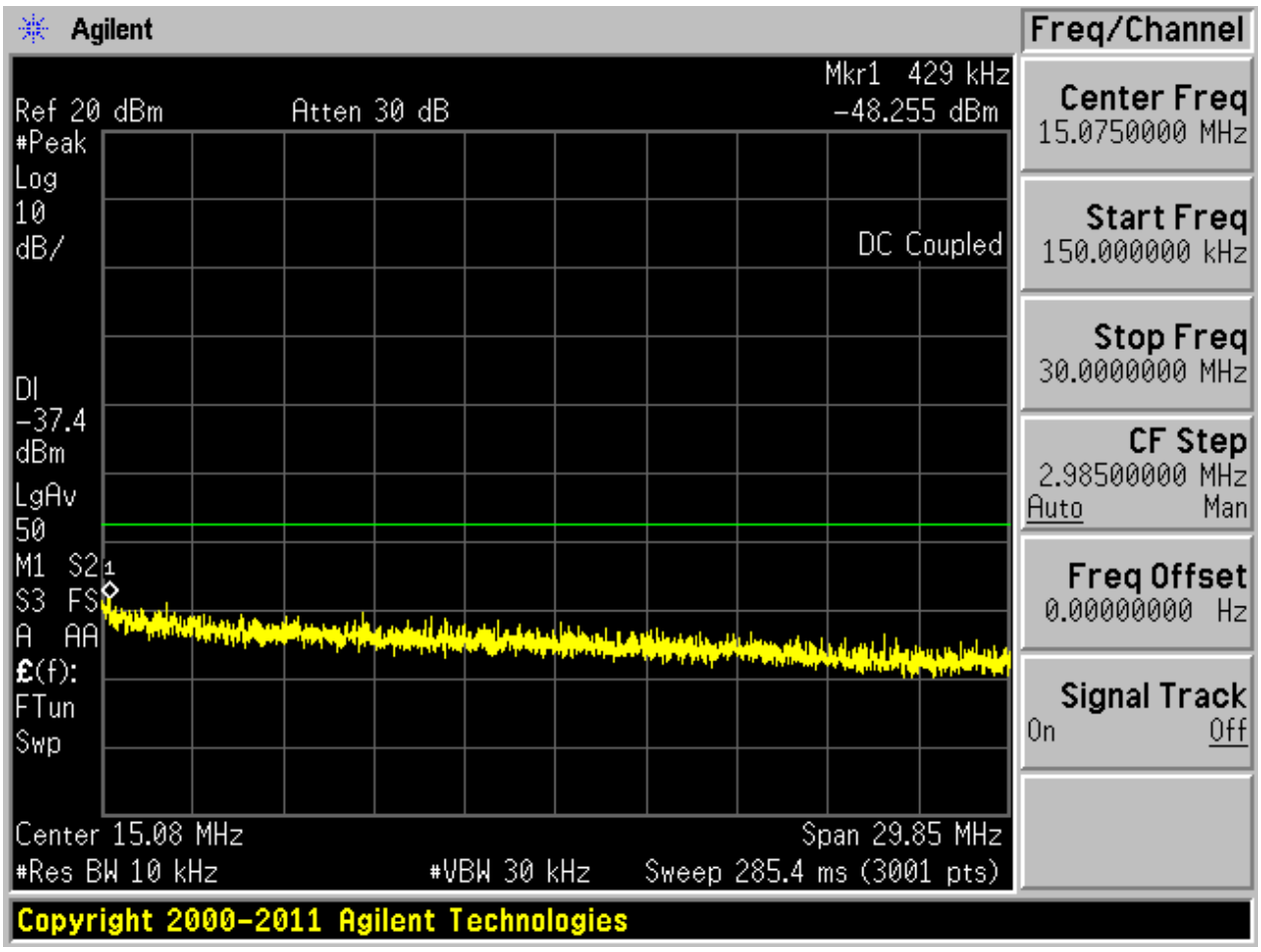

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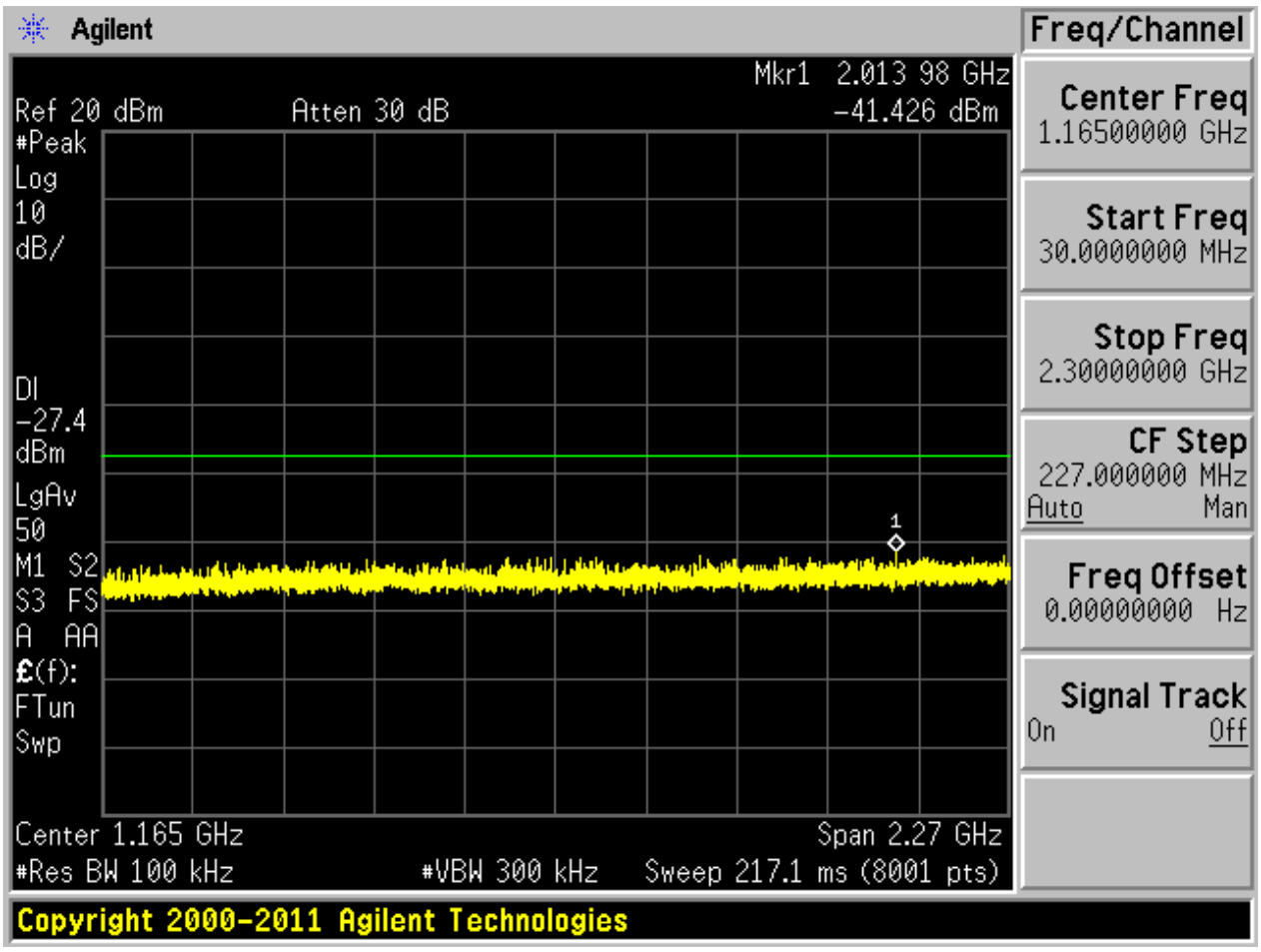

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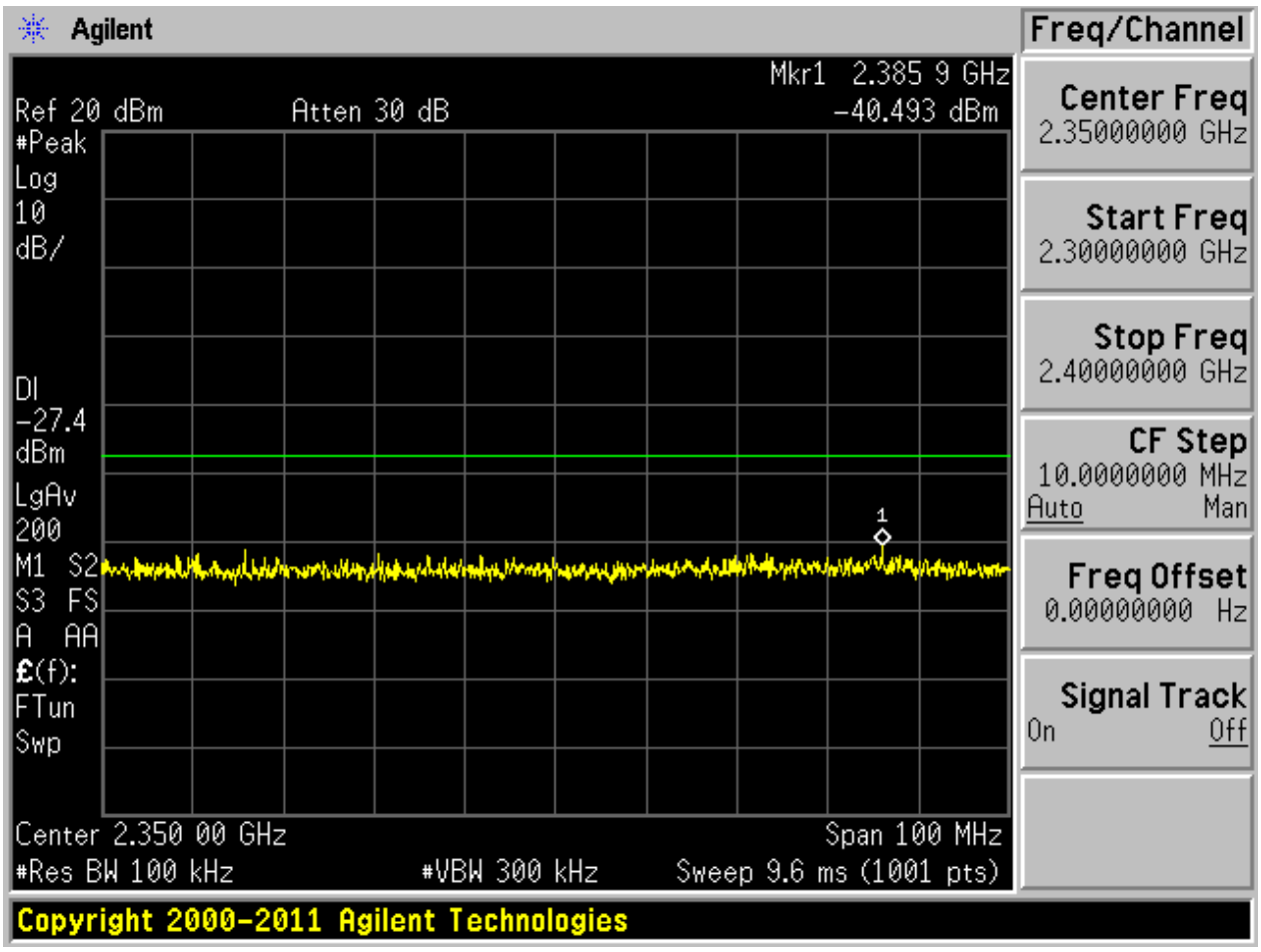

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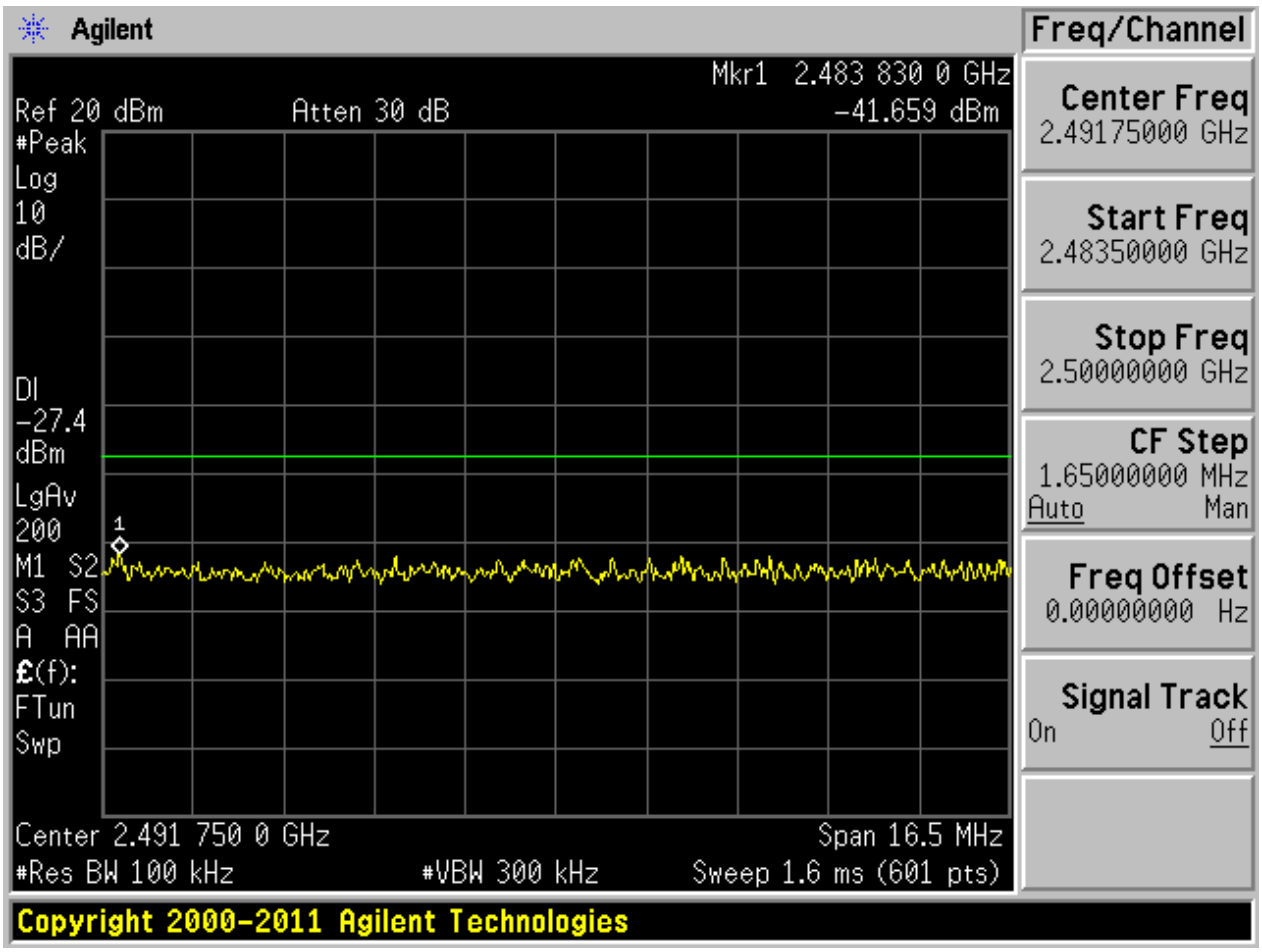

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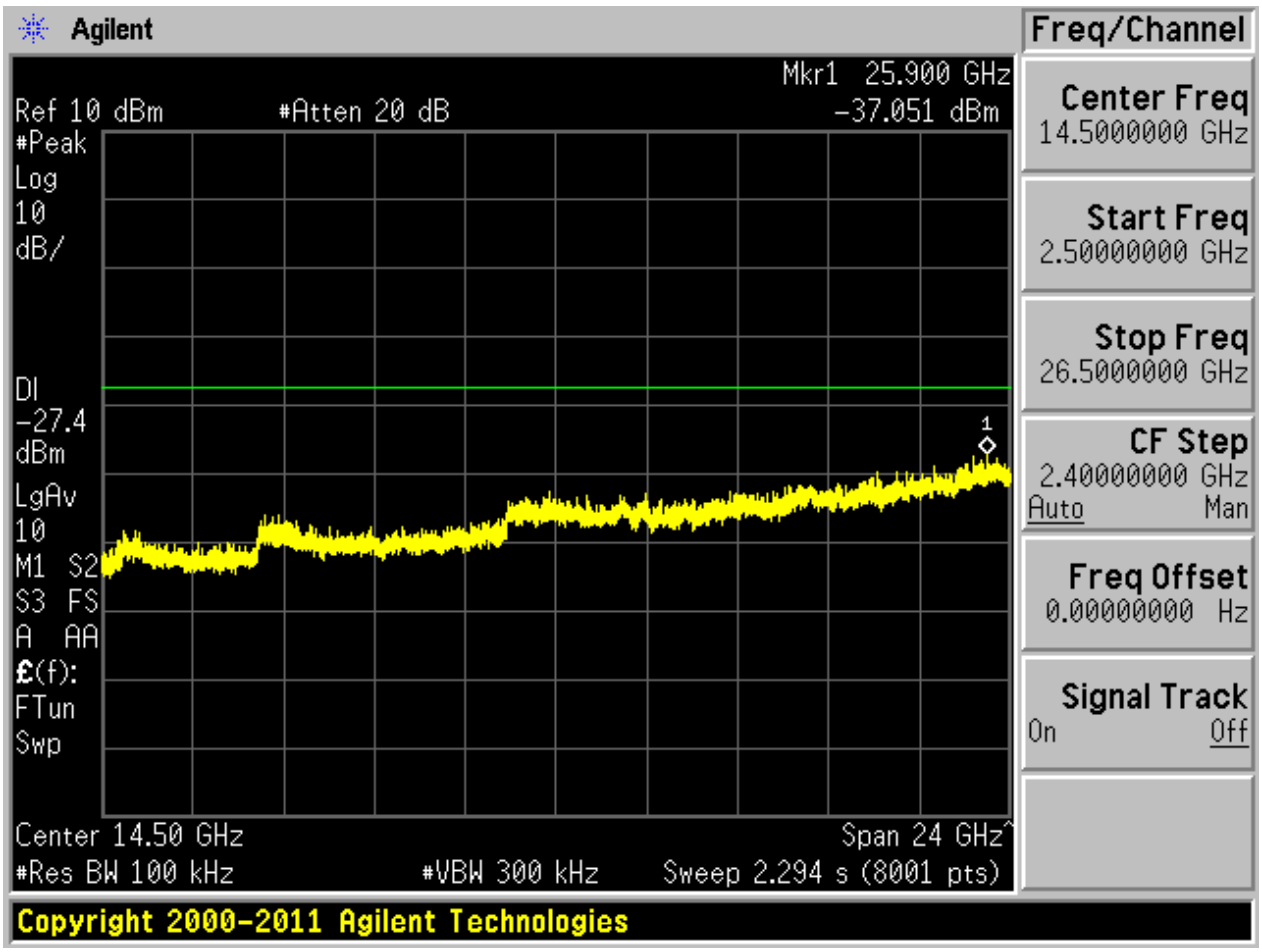

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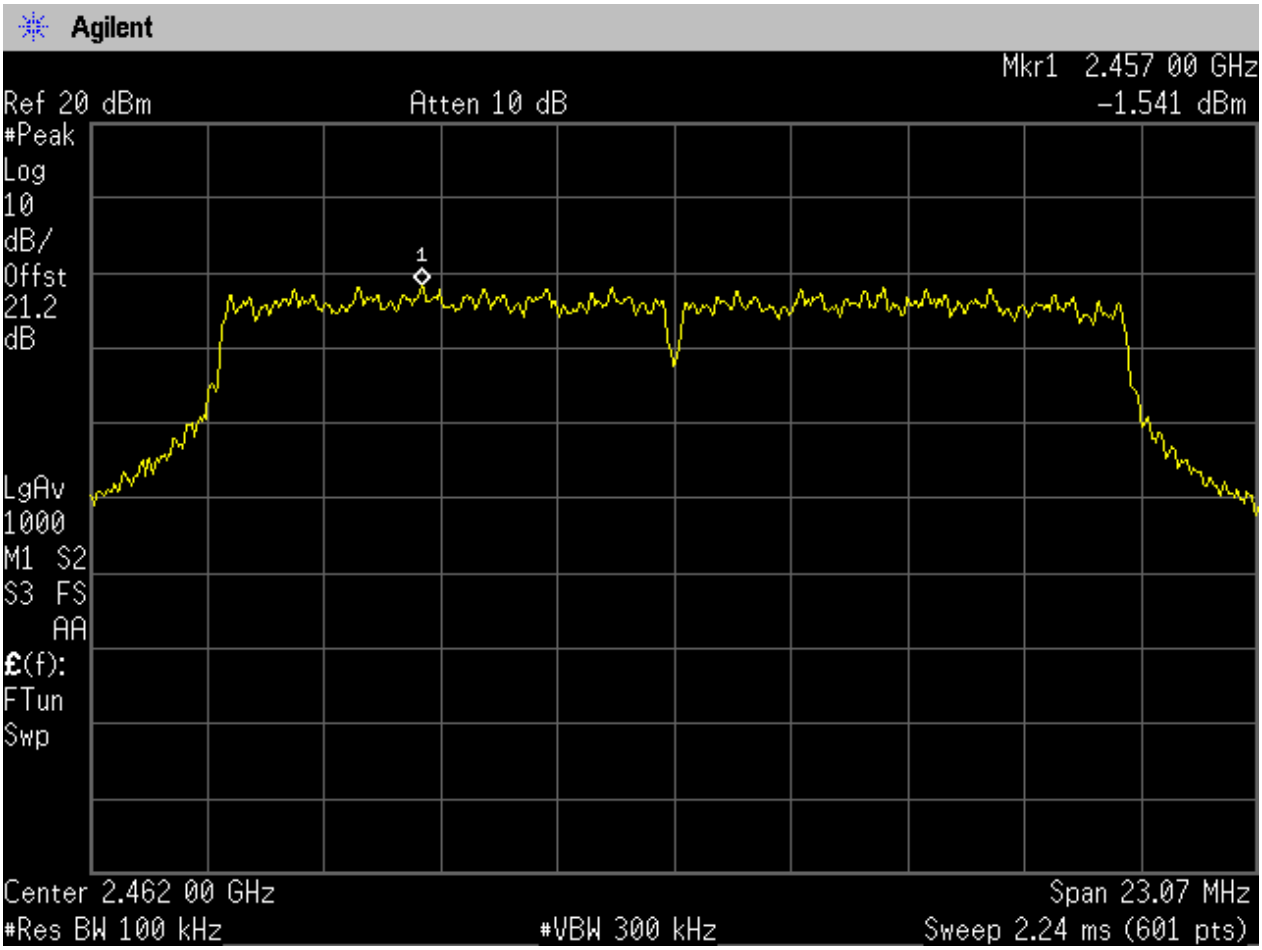

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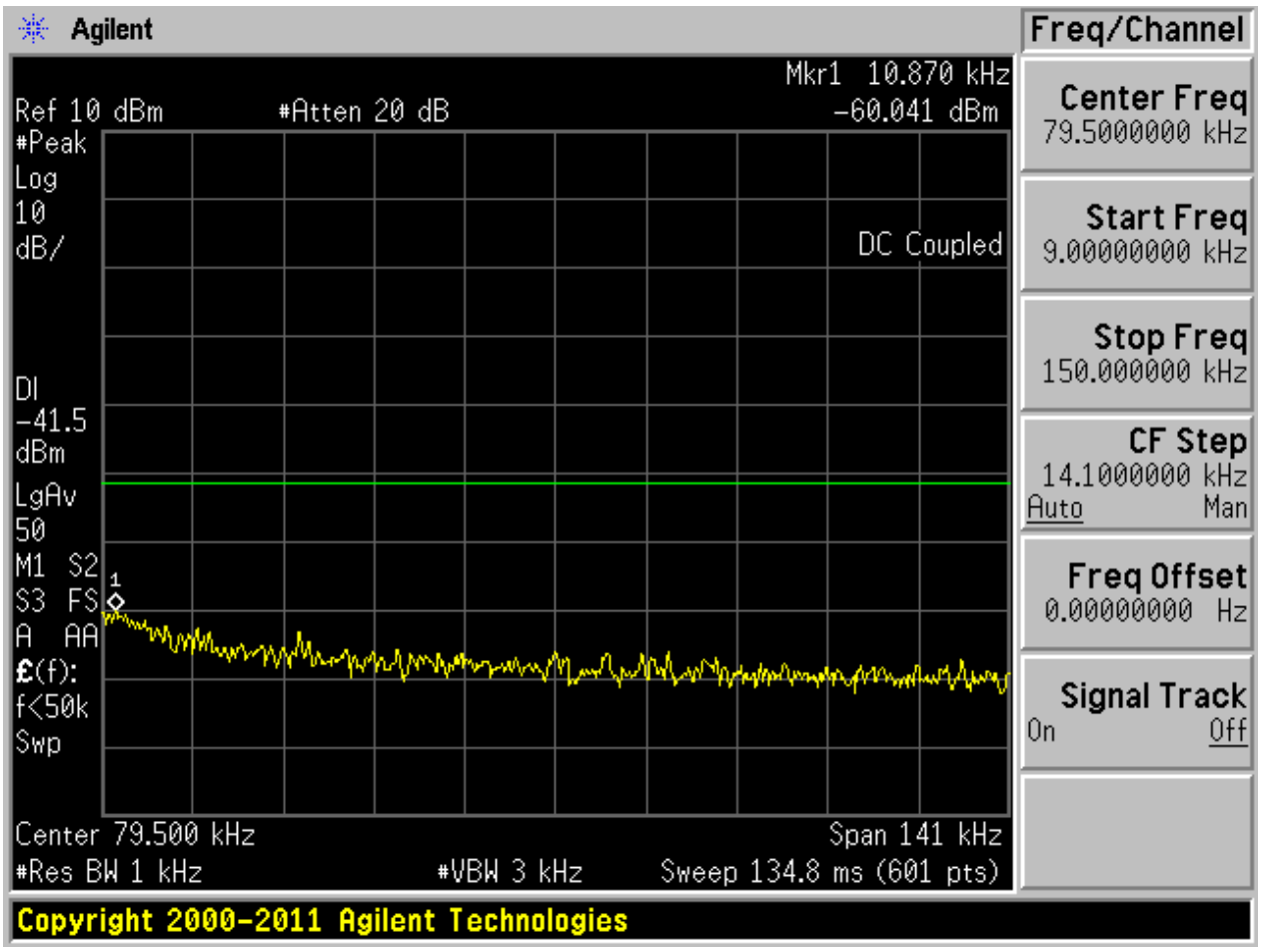

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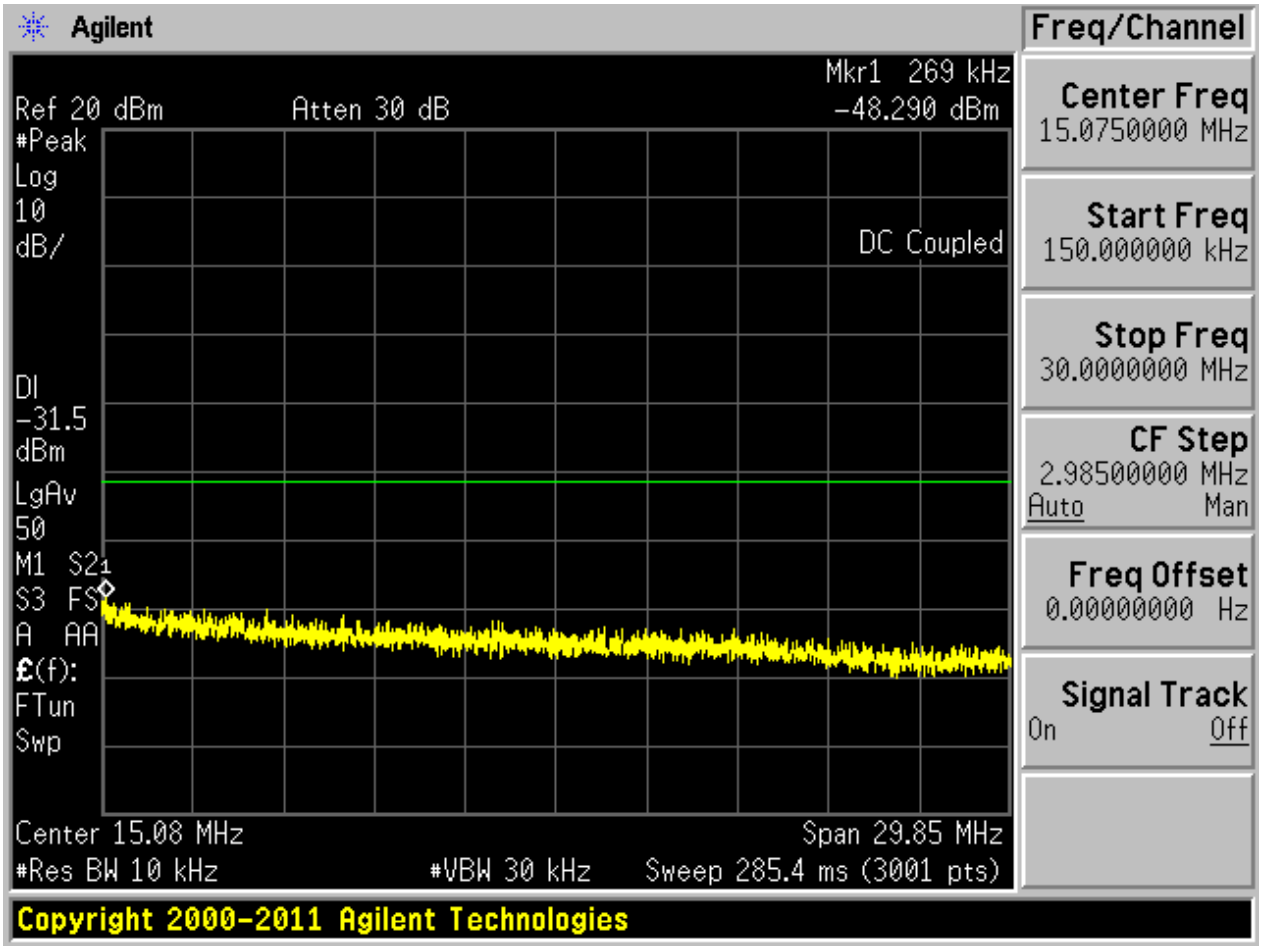

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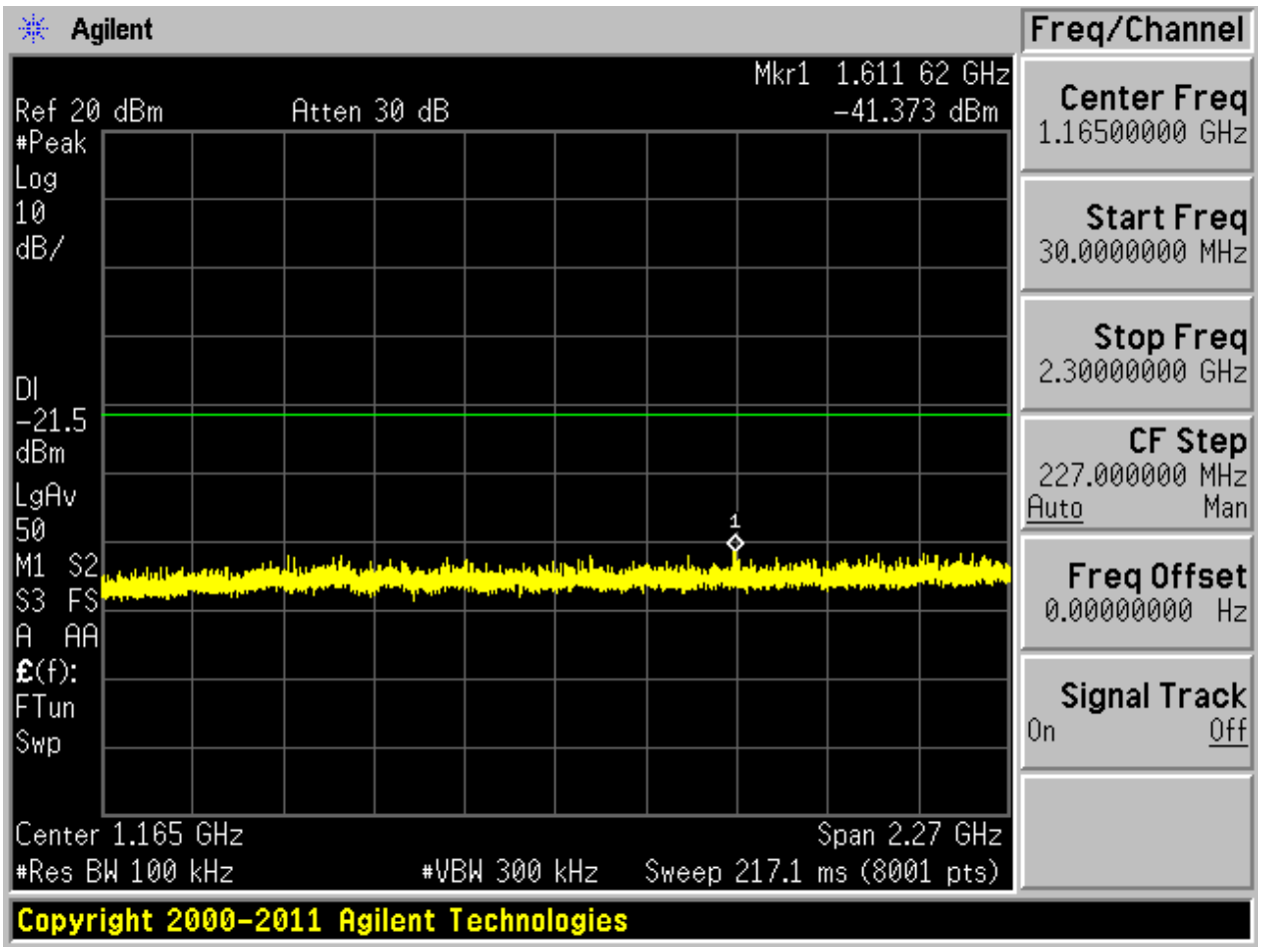

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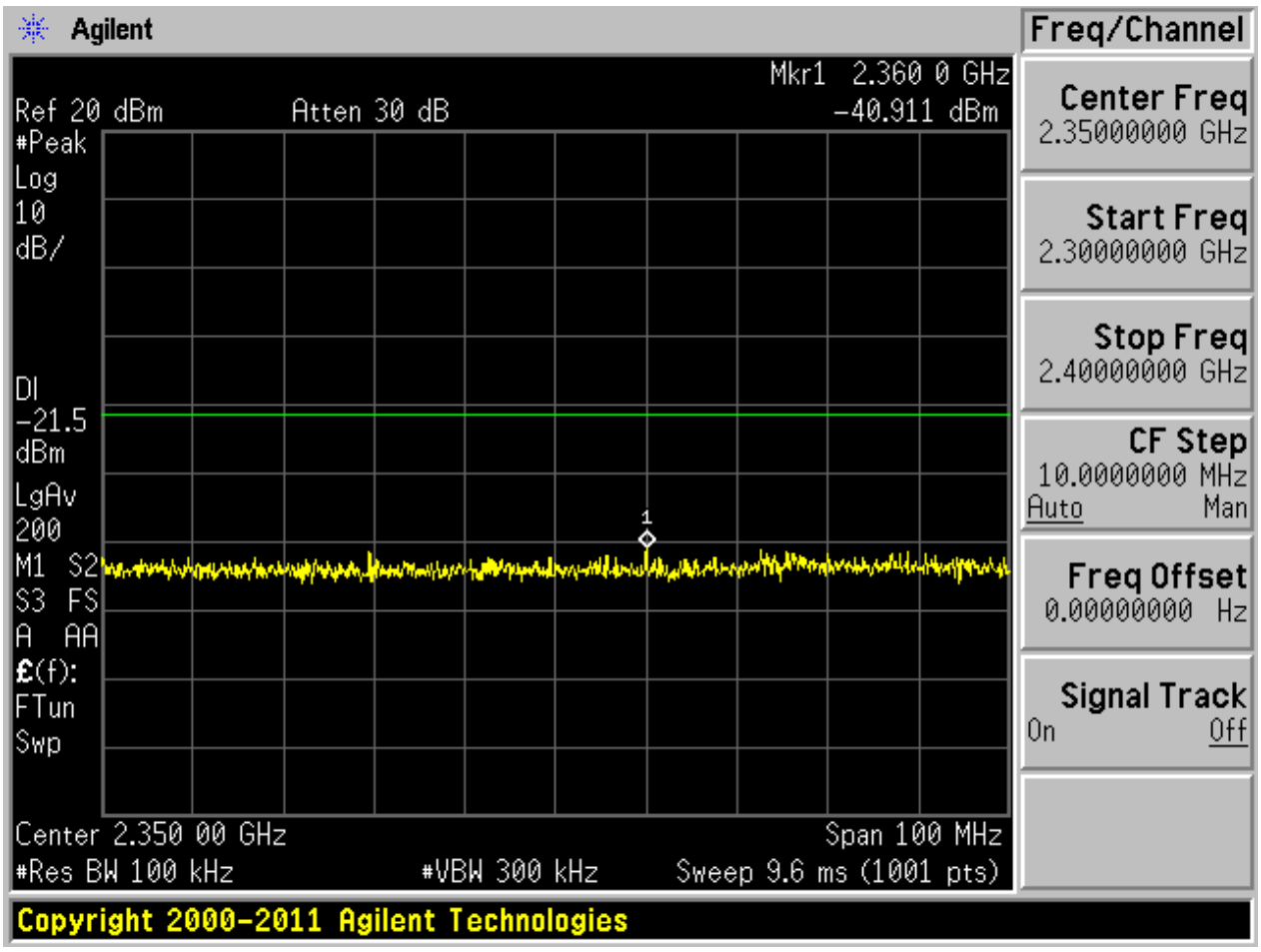

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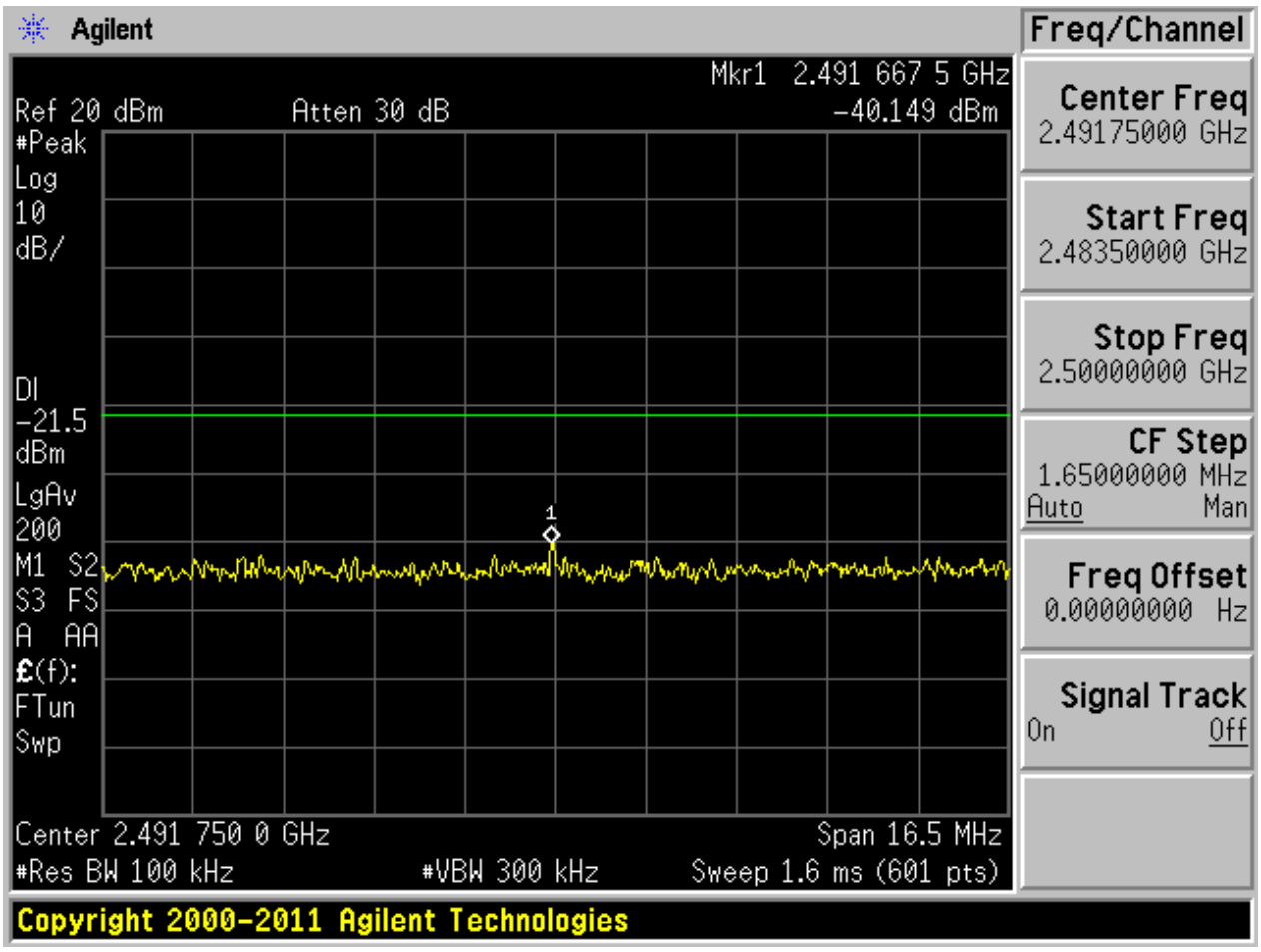

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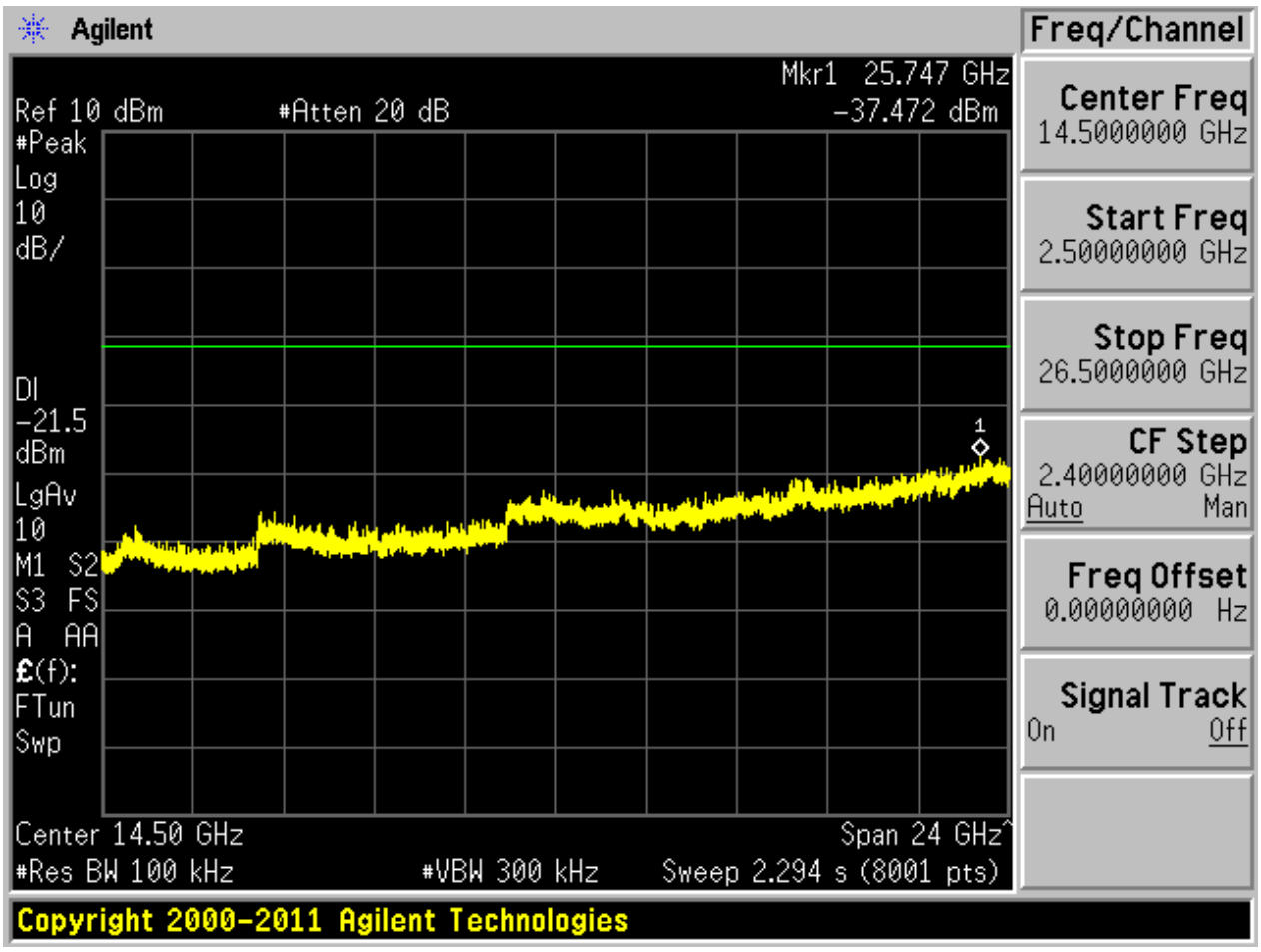

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Appendix F.1: Unwanted Emissions into Restricted Frequency Bands (Conducted)

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