

FCC RF Test Report

Product Name: Mobile WiFi

Product Model: E5776s-32

Report Number: SYBH(Z-RF)001072013-2002

FCC ID: QISE5776S-32

Reliability Laboratory of Huawei Technologies Co., Ltd.

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Notice

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2. The laboratory has Passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01.
3. The laboratory has been listed by the US Federal Communications Commission to perform electromagnetic emission measurements. The site recognition number is 97456.
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6. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
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Applicant: Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
 Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt Sample: 2013-07-03
Start Date of Test: 2013-07-03
End Date of Test: 2013-07-07

Test Result: Pass

Approved by Senior Engineer:	2013-07-10	Dai Linjun	
	Date	Name	Signature

Prepared by:	2013-07-10	Feng Nianwei	
	Date	Name	Signature



Modification Record

No.	Last Report No.	Modification Description



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1 General Information

1.1 Applied Standard

Applied Rules: 47 CFR FCC Part 2, Subpart J 2012
47 CFR FCC Part 15, Subpart C 2012

Test Method: FCC KDB 558074 D01 DTS Meas Guidance v03r01
FCC KDB 662911 D01 Multiple Transmitter Output v02
ANSI C63.10-2009, American National Standard for Testing Unlicensed
Wireless Devices.

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3 Test Environment Condition

Ambient Temperature: 19.5to 25 °C
Ambient Relative Humidity: 40 to 55 %
Atmospheric Pressure: Not applicable



2 Test Summary

Test Item	FCC Part No.	Requirements	Test Result	Verdict
DTS (6 dB) Bandwidth	15.247(a)(2)	≥ 500 kHz.	Appendix A	Pass
Maximum Peak Conducted Output Power	15.247(b)(3)	For directional gain: < 30 dBm – (G[dBi] – 6 [dB]), peak; Otherwise: < 30 dBm, peak.	Appendix B	Pass
Maximum Power Spectral Density Level	15.247(e)	For directional gain: < 8 dBm/3 kHz – (G[dBi] – 6 [dB]), peak. Otherwise: < 8 dBm/3 kHz, peak.	Appendix C	Pass
Band Edges Compliance	15.247(d)	< -20 dBm/100 kHz if total peak power ≤ power limit.	Appendix D	Pass
Unwanted Emissions into Non-Restricted Frequency Bands			Appendix E	Pass
Unwanted Emissions into Restricted Frequency Bands (Radiated)	15.247(d) 15.209 (NOTE 1)	FCC Part 15.209 field strength limit;	Appendix F	Pass
AC Power Line Conducted Emissions	15.207	FCC Part 15.207 conducted limit;	Appendix G	Pass
NOTE 1: According to KDB 558074, antenna-port conducted measurements are acceptable as an alternative to radiated measurements for demonstrating compliance to the limits in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case emissions will also be required.				



3 Description of the Equipment under Test (EUT)

3.1 General Description

E5776s-32 is a LTE/UMTS/GSM triple mode and WiFi Wireless mobile Router; it can be used as a WiFi hotspot based on standard of IEEE802.11b/g/n. It supports 3G WCDMA and 4G LTE wireless internet accessing function. About 3G WCDMA wireless mode, it supports WCDMA and HSDPA/HSUPA/HSPA+/DC-HSDPA, operating in Band2, Band 5; and the 4G LTE, operating in Band7; and GSM operating in GSM850MHz and GSM1900MHz. The WiFi frequency is 2.4GHz. E5776s-32 supports 1Tx2Rx for 3G WCDMA and 4G LTE, WiFi supports 2Tx2Rx.

3.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

3.2.1 Board

Board			
Model Name	Hardware Version	Software Version	Description
E5776s-32	CL2E5776SM	21.202.17.00.00	Main board

3.2.2 Sub-Assembly

Sub-Assembly			
Sub-Assembly Name	Manufacturer	Serials number	Description
Adapter	HUAWEI	HW-050200U3W	Adapter Model: HW-050200U3W Input Voltage : 100-240V1 ~50/60Hz, 0.5A MAX Output: === 5.0V 2.0A
Li-ion Battery	HUAWEI	HB5P1H	Battery Model: HB5P1H Rated capacity: 3000mAh Nominal Voltage: === +3.7V Charging Voltage: === +4.2V
USB Cable	HUAWEI	---	Terminal Accessory, Data Cable, Usb A Male to Micro Usb, Terminal Dedicated

3.3 Technical Description

Characteristics	Description		
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11b (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11g (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth)		
TX/RX Operating Range	2412-2462 MHz band	$f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.	
Data Rate	802.11b	1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps	
	802.11g	6 Mbps, 9 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps	
	802.11n	MCS 0 to MCS 7	
	802.11n (MIMO)	MCS 8 to MCS 15	
Modulation Type	DBPSK/DQPSK/CCK (DSSS), BPSK/QPSK/16QAM/64QAM (OFDM).		
Emission Designator	8M66G1D (for 802.11b mode), 16M4G7D (for 802.11g mod), 17M7G7D (for 802.11n 20M SISO mode), 36M6G7D (for 802.11n 40M SISO mode), 17M7G7D (for 802.11n 20M MIMO mode), 36M6G7D (for 802.11n 40M MIMO mode)		
TX Power Control	<input checked="" type="checkbox"/> Supported, <input type="checkbox"/> Not Supported		
Standby Mode	<input type="checkbox"/> Supported, <input checked="" type="checkbox"/> Not Supported		
Equipment Type	<input type="checkbox"/> Stand-alone equipment, <input type="checkbox"/> Plug-in radio device, <input checked="" type="checkbox"/> Combined equipment		
Antenna	Description	Isotropic Antenna, 2400~2500MHz, isotropic,5W,N-J,no	
	Type	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
	Ports	<input checked="" type="checkbox"/> Ant 1, <input checked="" type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3	
	Smart System	<input checked="" type="checkbox"/> SISO (for 802.11b/g/n), <input checked="" type="checkbox"/> MIMO (for 802.11n): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx Rx	
	Gain	Ant 1: 2.1 dBi (per antenna port, max.)	
		Ant 2: 2.1 dBi (per antenna port, max.)	
Remark	When the EUT is put into service, the practical maximum antenna gain should NOT exceed the value as described above.		
Power Supply	Type	<input type="checkbox"/> AC/DC Adapter <input type="checkbox"/> PoE: <input type="checkbox"/> Other:	



4 General Test Conditions / Configurations

4.1 Test Modes

NOTE: Typical working modes for each IEEE 802.11 mode are selected to perform tests.

Test Mode	Test Modes Description
11B	IEEE 802.11b with data rate of 1 Mbps using SISO mode.
11G	IEEE 802.11g with data rate of 6 Mbps using SISO mode.
11N20	IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz using SISO mode.
11N20m	IEEE 802.11n with data rate of MCS8 and bandwidth of 20 MHz using MIMO mode.
11N40	IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz using SISO mode.
11N40m	IEEE 802.11n with data rate of MCS8 and bandwidth of 40 MHz using MIMO mode.



4.2 EUT Configurations

4.2.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, - All TX tests are performed at all TX antenna ports of the EUT, and - All RX tests are performed at all RX antenna ports of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

4.2.2 Customized Configurations

Test Mode	RF Ch.	TX Freq. [MHz]	Antenna Port	RX Freq. [MHz]	Ch. BW [MHz]	Power Conf., per Port
11B	L	Ch No. 1 / 2412 MHz	Ant1	---	20	11
			Ant2	---	20	11
	M	Ch No. 6 / 2437 MHz	Ant1	---	20	11
			Ant2	---	20	11
	H	Ch No. 11 / 2462 MHz	Ant1	---	20	11
			Ant2	---	20	11
11G	L	Ch No. 1 / 2412 MHz	Ant1	---	20	10
			Ant2	---	20	10
	M	Ch No. 6 / 2437 MHz	Ant1	---	20	10
			Ant2	---	20	10
	H	Ch No. 11 / 2462 MHz	Ant1	---	20	10
			Ant2	---	20	10
11N20	L	Ch No. 1 / 2412 MHz	Ant1	---	20	8
			Ant2	---	20	8
	M	Ch No. 6 / 2437 MHz	Ant1	---	20	8
			Ant2	---	20	8
	H	Ch No. 11 / 2462 MHz	Ant1	---	20	8
			Ant2	---	20	8
11N20m	L	Ch No. 1 / 2412 MHz	Ant1	---	20	8
			Ant2	---	20	8
	M	Ch No. 6 / 2437 MHz	Ant1	---	20	8
			Ant2	---	20	8
	H	Ch No. 11 / 2462 MHz	Ant1	---	20	8
			Ant2	---	20	8
11N40	L	Ch No. 3 / 2422 MHz	Ant1	---	40	8
			Ant2	---	40	8



Test Mode	RF Ch.	TX Freq. [MHz]	Antenna Port	RX Freq. [MHz]	Ch. BW [MHz]	Power Conf., per Port
	M	Ch No. 6 / 2437 MHz	Ant1	---	40	8
			Ant2	---	40	8
	H	Ch No. 9 / 2452 MHz	Ant1	---	40	8
			Ant2	---	40	8
11N40m	L	Ch No. 3 / 2422 MHz	Ant1	---	40	8
			Ant2	---	40	8
	M	Ch No. 6 / 2437 MHz	Ant1	---	40	8
			Ant2	---	40	8
	H	Ch No. 9 / 2452 MHz	Ant1	---	40	8
			Ant2	---	40	8



4.3 Test Environments

NOTE: The values used in the test report may be stringent than the declared.

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	Ambient	3.7 VDC	Ambient

4.4 Antenna requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

The antennas of the **Mobile WiFi** are **permanently attached**.
There are no provisions for connection to an external antenna.

Conclusion:

The **Mobile WiFi FCC ID: QISE5776S-32** unit complies with the requirement of §15.203.

Ch. Frequency (MHz)

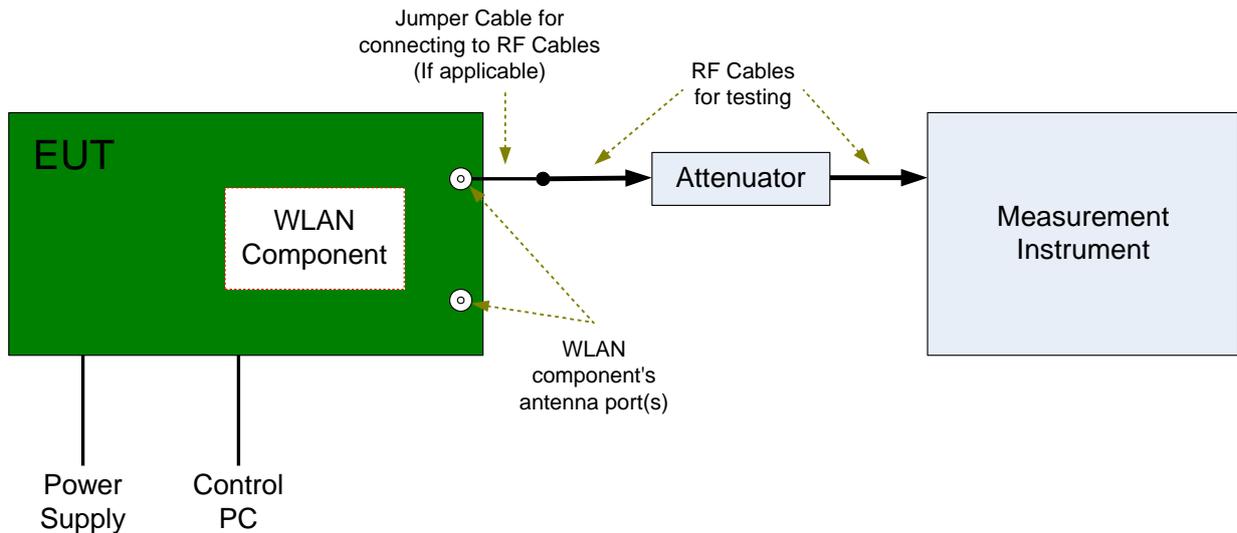
Ch.	Frequency (MHz)
01	2412
.	.
.	.
06	2437
.	.
.	.
11	2462

Frequency/ Channel Operations

4.5 Test Setups

4.5.1 Test Setup 1

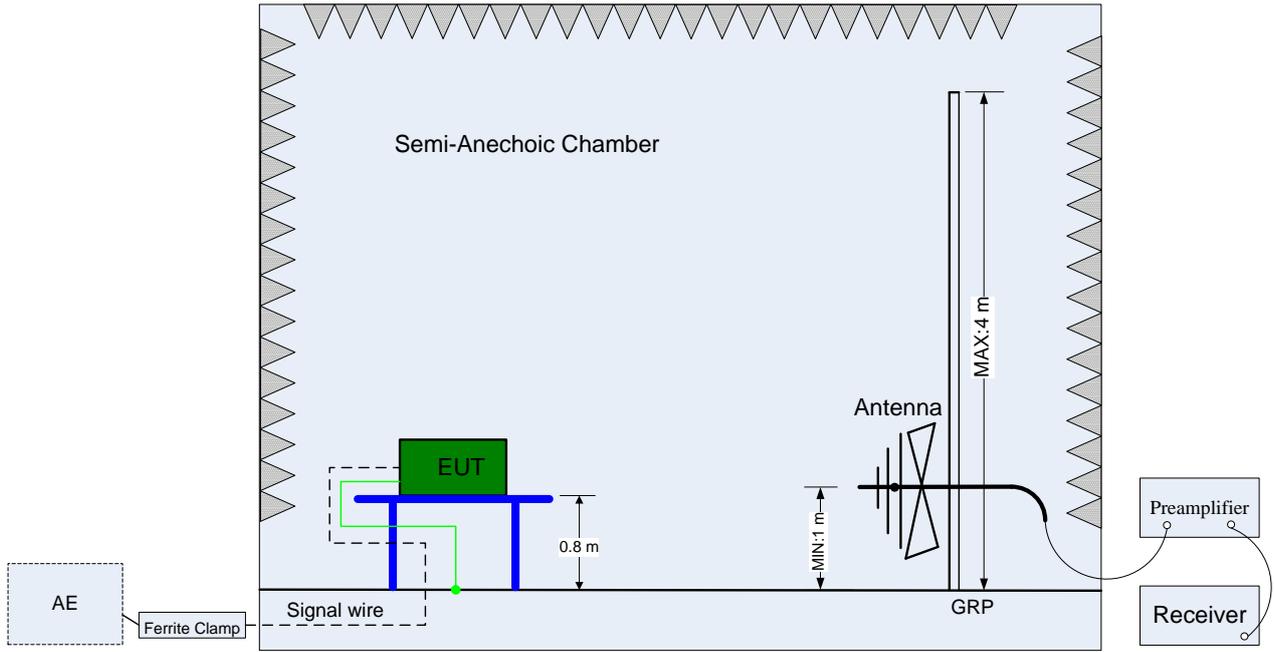
The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



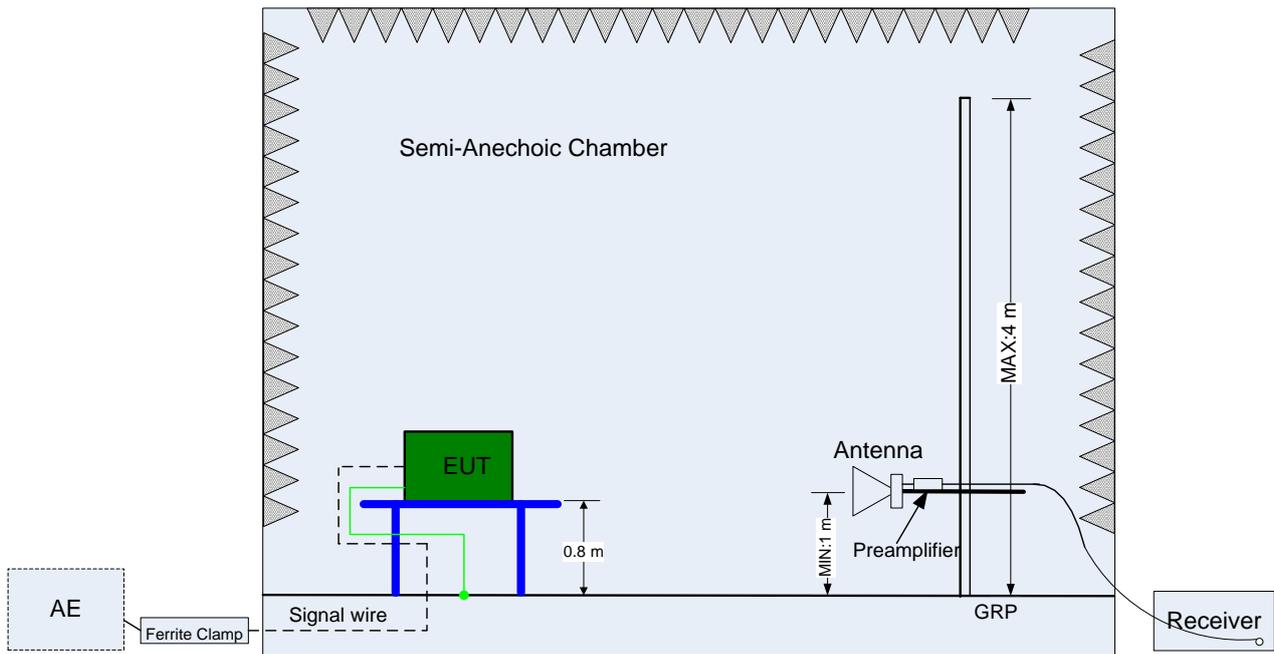
4.5.2 Test Setup 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.4. The test distance is 3m. The setup is according to ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).



(Below 1 GHz)

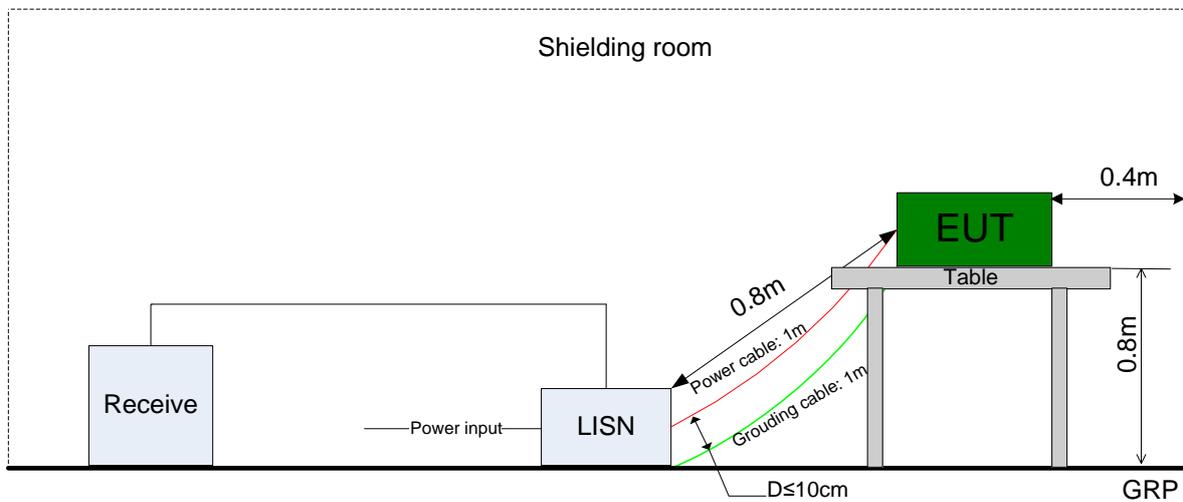


(Above 1 GHz)

4.5.3 Test Setup 3

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.





4.6 Test Conditions

Test Case	Test Conditions	
	Configuration	Description
DTS (6 dB) Bandwidth	Measurement Method	FCC KDB 558074 §8.2 Option 2.
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N20m_L@Ant1, 11N20m_L@Ant2, 11N20m_M@Ant1, 11N20m_M@Ant2, 11N20m_H@Ant1, 11N20m_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2, 11N40m_L@Ant1, 11N40m_L@Ant2, 11N40m_M@Ant1, 11N40m_M@Ant2, 11N40m_H@Ant1, 11N40m_H@Ant2,
Maximum Peak Conducted Output Power	Measurement Method	FCC KDB 558074 §9.1 .2 (integrated band power method).
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N20m_L@Ant1, 11N20m_L@Ant2, 11N20m_M@Ant1, 11N20m_M@Ant2, 11N20m_H@Ant1, 11N20m_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2, 11N40m_L@Ant1, 11N40m_L@Ant2, 11N40m_M@Ant1, 11N40m_M@Ant2, 11N40m_H@Ant1, 11N40m_H@Ant2,
Maximum Power Spectral Density Level	Measurement Method	FCC KDB 558074 §10.2 (peak PSD).
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2,



Test Case	Test Conditions	
	Configuration	Description
		11N20_H@Ant1, 11N20_H@Ant2, 11N20m_L@Ant1, 11N20m_L@Ant2, 11N20m_M@Ant1, 11N20m_M@Ant2, 11N20m_H@Ant1, 11N20m_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2, 11N40m_L@Ant1, 11N40m_L@Ant2, 11N40m_M@Ant1, 11N40m_M@Ant2, 11N40m_H@Ant1, 11N40m_H@Ant2,
Band Edges Compliance	Measurement Method	FCC KDB 558074 §13.0.
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N20m_L@Ant1, 11N20m_L@Ant2, 11N20m_H@Ant1, 11N20m_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_H@Ant1, 11N40_H@Ant2, 11N40m_L@Ant1, 11N40m_L@Ant2, 11N40m_H@Ant1, 11N40m_H@Ant2,
Unwanted Emissions into Non-Restricted Frequency Bands	Measurement Method	FCC KDB 558074 §11.0
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N20m_L@Ant1, 11N20m_L@Ant2, 11N20m_M@Ant1, 11N20m_M@Ant2, 11N20m_H@Ant1, 11N20m_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2, 11N40m_L@Ant1, 11N40m_L@Ant2, 11N40m_M@Ant1, 11N40m_M@Ant2, 11N40m_H@Ant1, 11N40m_H@Ant2,
Unwanted Emissions into Restricted Frequency Bands (Radiated)	Measurement Method	ANSI C63.10; FCC KDB 558074 §12.1, Radiated
	Test Environment	NTNV
	Test Setup	Test Setup 2
	EUT Placement	<input type="checkbox"/> Flatwise, <input type="checkbox"/> Upright, <input type="checkbox"/> Hung
	EUT Configuration	(1) 30 MHz to 1 GHz: 11B_L@Ant1 (Worst Conf.). (2) 1 GHz to 3 GHz:

Test Case	Test Conditions	
	Configuration	Description
		11B_L@Ant1, 11B_L@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N20m_L@Ant1, 11N20m_L@Ant2, 11N20m_H@Ant1, 11N20m_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_H@Ant1, 11N40_H@Ant2, 11N40m_L@Ant1, 11N40m_L@Ant2, 11N40m_H@Ant1, 11N40m_H@Ant2, (3) 3 GHz to 18 GHz: 11B_L@Ant1 (Worse Conf.), 11B_H@Ant1 (Worse Conf.). (4) 18 GHz to 26.5 GHz: 11B_L@Ant1 (Worse Conf.), 11B_H@Ant1 (Worse Conf.).
AC Power Line Conducted Emissions	Measurement Method	AC mains conducted.
	Test Environment	NTNV
	Test Setup	Test Setup 3
	EUT Configuration	11B_L@Ant1 (Worst Conf.).



5 Main Test Instruments

Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal- Due
Power supply	KEITHLEY	2303	1288003	2012-11-19	2014-11-18
Spectrum Analyzer	Agilent	E4440A	MY48250119	2012-08-20	2013-08-19
Signal Analyzer	R&S	FSQ31	200021	2012-11-09	2013-11-08
Spectrum Analyzer	Agilent	N9030A	MY49431698	2012-11-09	2013-11-08
Temperature Chamber	WEISS	WKL64	56246002940010	2013-01-29	2014-01-28
Signal generator	Agilent	E8257D	MY49281095	2012-09-14	2013-09-13
Spectrum analyzer	R&S	FSU3	200474	2013-01-29	2014-01-28
Test receiver	R&S	ESU26	100150	2013-05-15	2014-05-14
Spectrum analyzer	R&S	FSU43	100144	2013-01-29	2014-01-28
Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	100304	2013-02-02	2014-02-01
Trilog Broadband Antenna (30M~3GHz)	SCHWARZBE CK	VULB 9163	9163-521	2011-12-09	2013-12-08
Pyramidal Horn Antenna(18GHz-26.5 GHz)	ETS-Lindgren	3160-09	00091989	2011-10-20	2013-10-19

END



Appendix for Test report

Appendix A: DTS (6 dB) Bandwidth

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.

Part I - Test Results

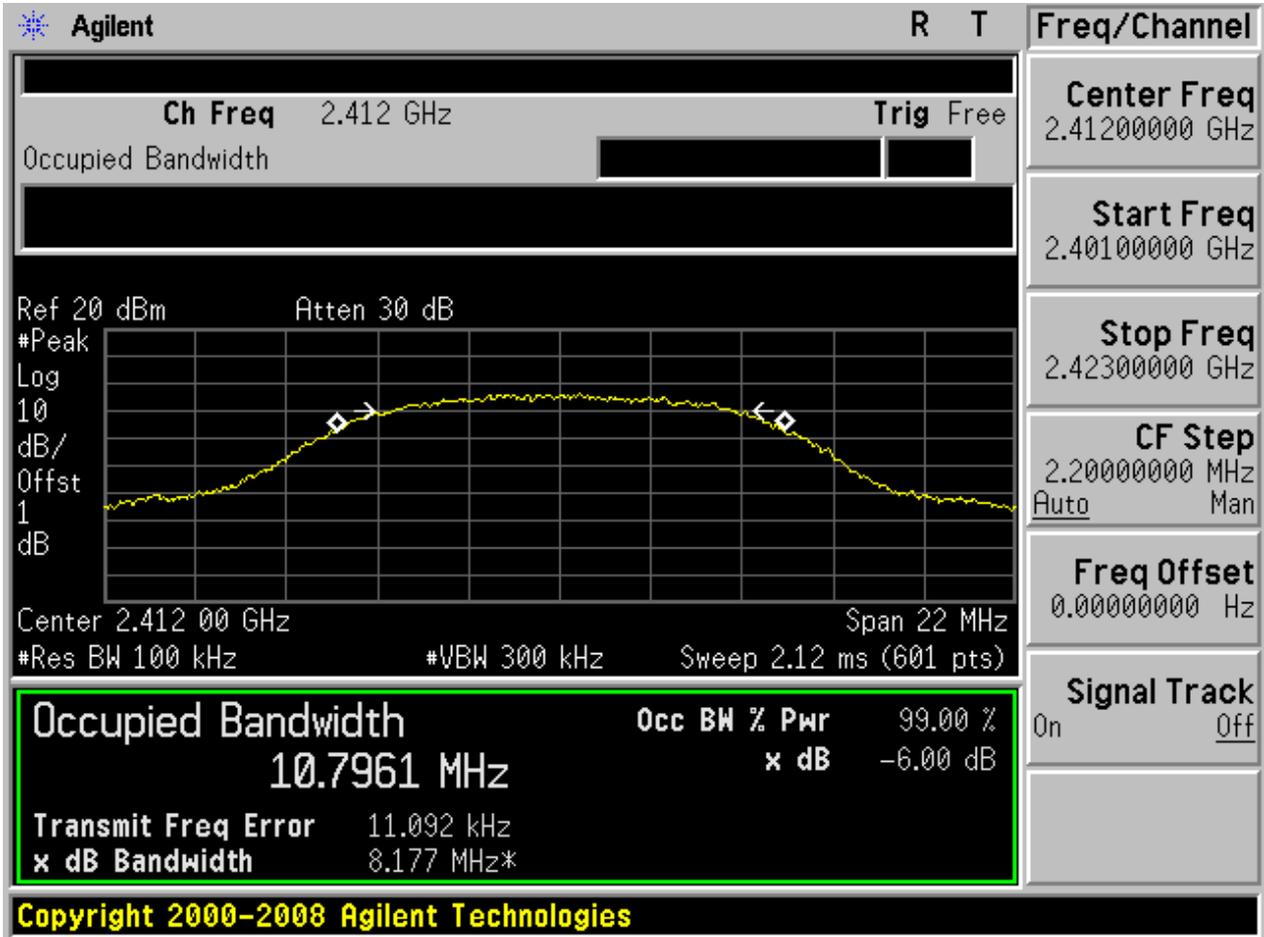
Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11B	L	2412	Ant 1	8.18	pass
11B	L	2412	Ant 2	7.44	pass
11B	M	2437	Ant 1	8.66	pass
11B	M	2437	Ant 2	8.21	pass
11B	H	2462	Ant 1	8.17	pass
11B	H	2462	Ant 2	7.64	pass
11G	L	2412	Ant 1	16.05	pass
11G	L	2412	Ant 2	15.39	pass
11G	M	2437	Ant 1	16.37	pass
11G	M	2437	Ant 2	15.68	pass
11G	H	2462	Ant 1	16.00	pass
11G	H	2462	Ant 2	13.48	pass
11N20	L	2412	Ant 1	17.61	pass
11N20	L	2412	Ant 2	17.25	pass
11N20	M	2437	Ant 1	17.66	pass
11N20	M	2437	Ant 2	14.80	pass
11N20	H	2462	Ant 1	17.25	pass
11N20	H	2462	Ant 2	14.82	pass
11N20m	L	2412	Ant 1	17.32	pass
11N20m	L	2412	Ant 2	16.02	pass
11N20m	M	2437	Ant 1	17.61	pass
11N20m	M	2437	Ant 2	13.92	pass
11N20m	H	2462	Ant 1	16.90	pass
11N20m	H	2462	Ant 2	14.21	pass
11N40	L	2422	Ant 1	36.43	pass
11N40	L	2422	Ant 2	36.52	pass
11N40	M	2437	Ant 1	36.14	pass
11N40	M	2437	Ant 2	36.35	pass



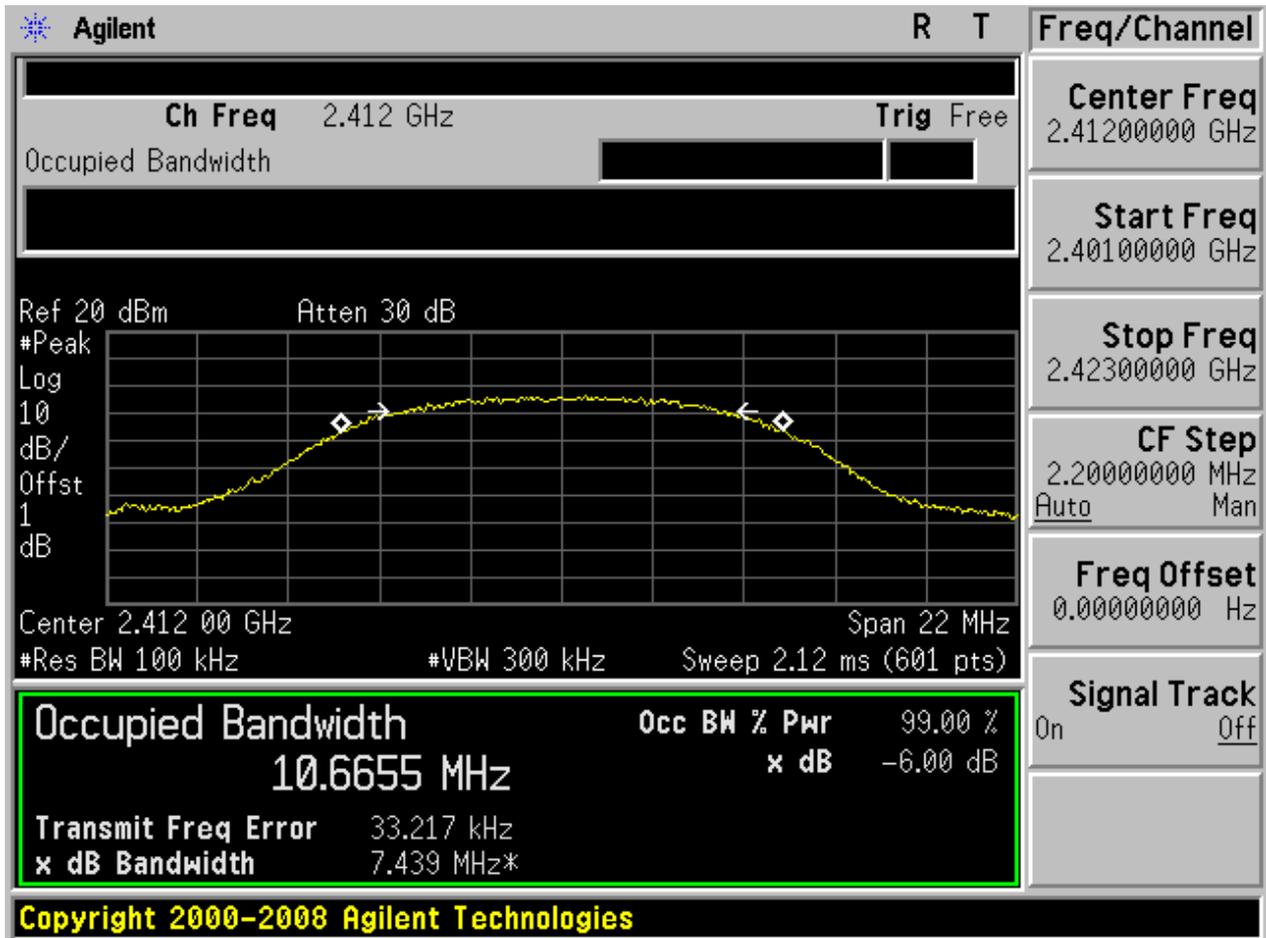
Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11N40	H	2452	Ant 1	36.46	pass
11N40	H	2452	Ant 2	36.33	pass
11N40m	L	2422	Ant 1	35.76	pass
11N40m	L	2422	Ant 2	36.51	pass
11N40m	M	2437	Ant 1	36.38	pass
11N40m	M	2437	Ant 2	32.89	pass
11N40m	H	2452	Ant 1	36.44	pass
11N40m	H	2452	Ant 2	36.42	pass

Part II - Test Plots

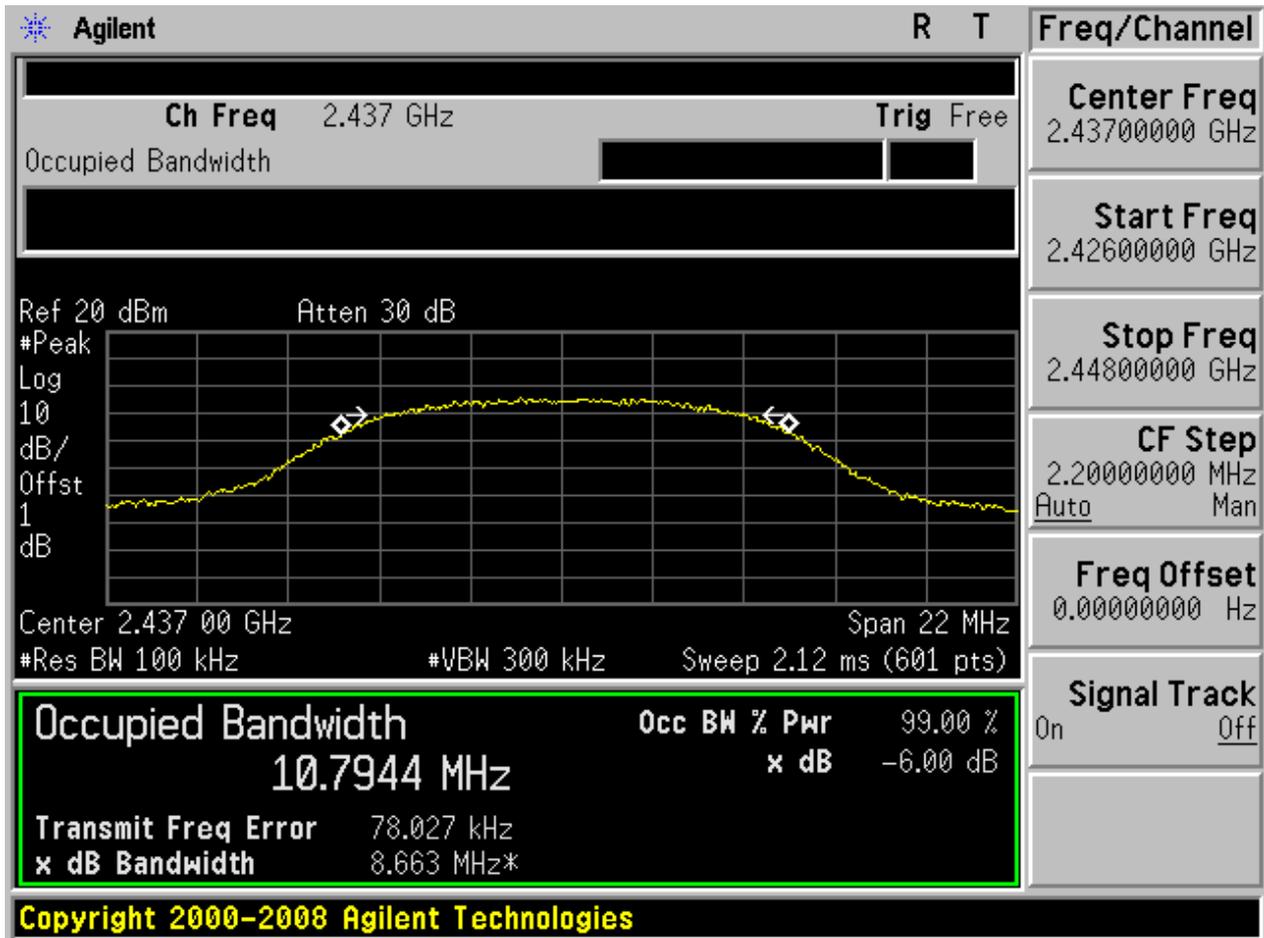
2.1 11B_L@Ant 1



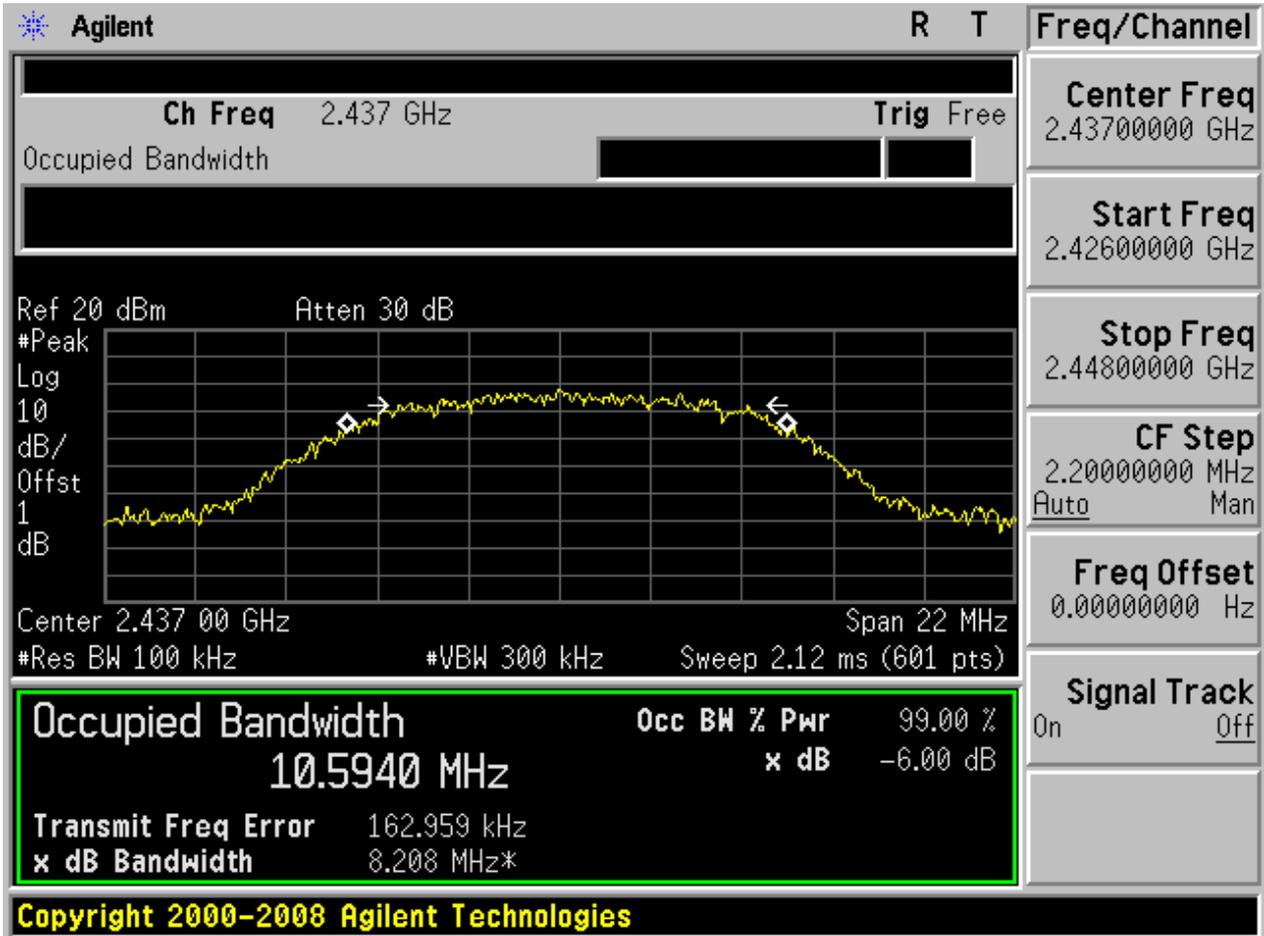
2.2 11B_L@Ant 2



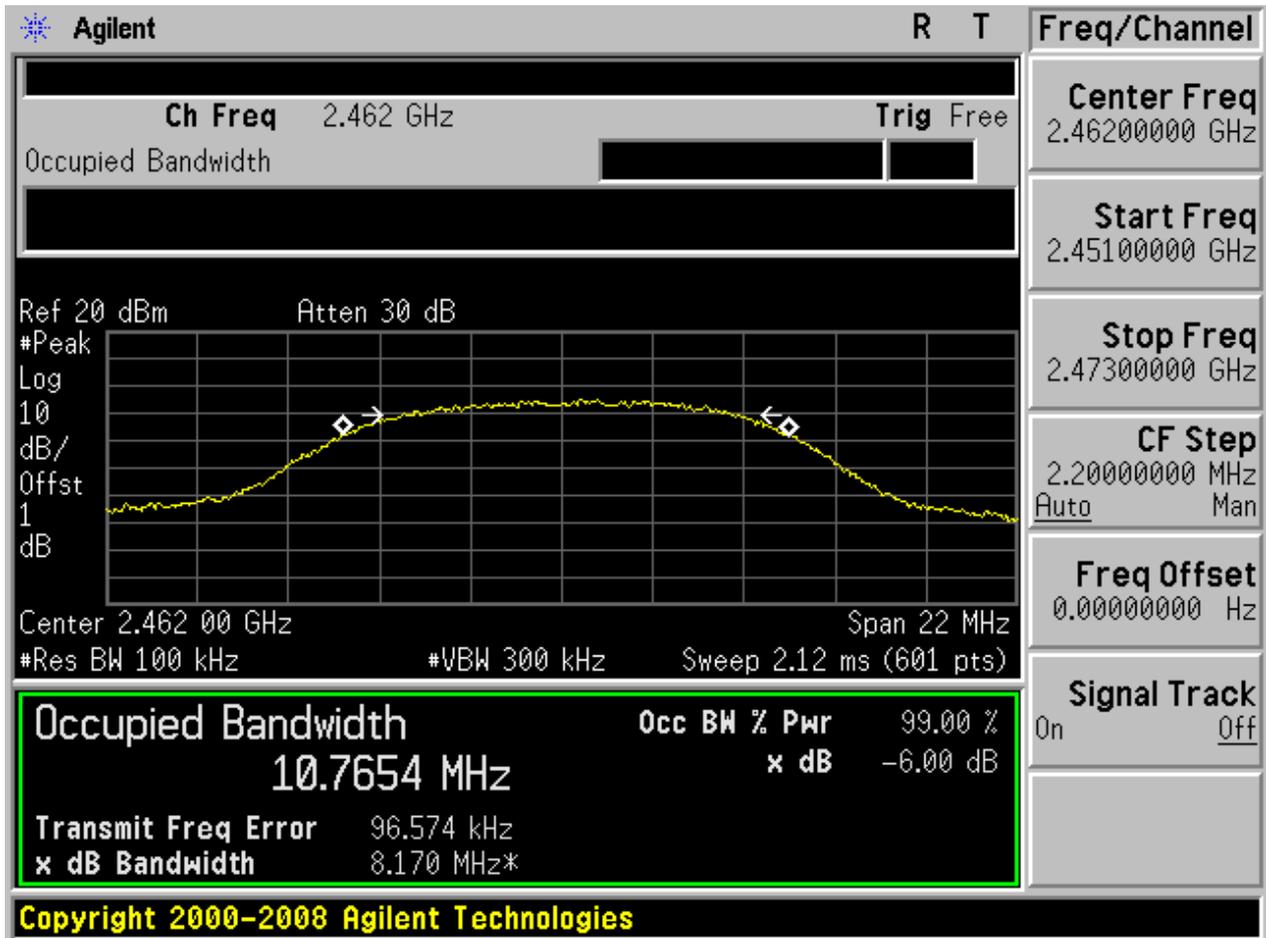
2.3 11B_M@Ant 1



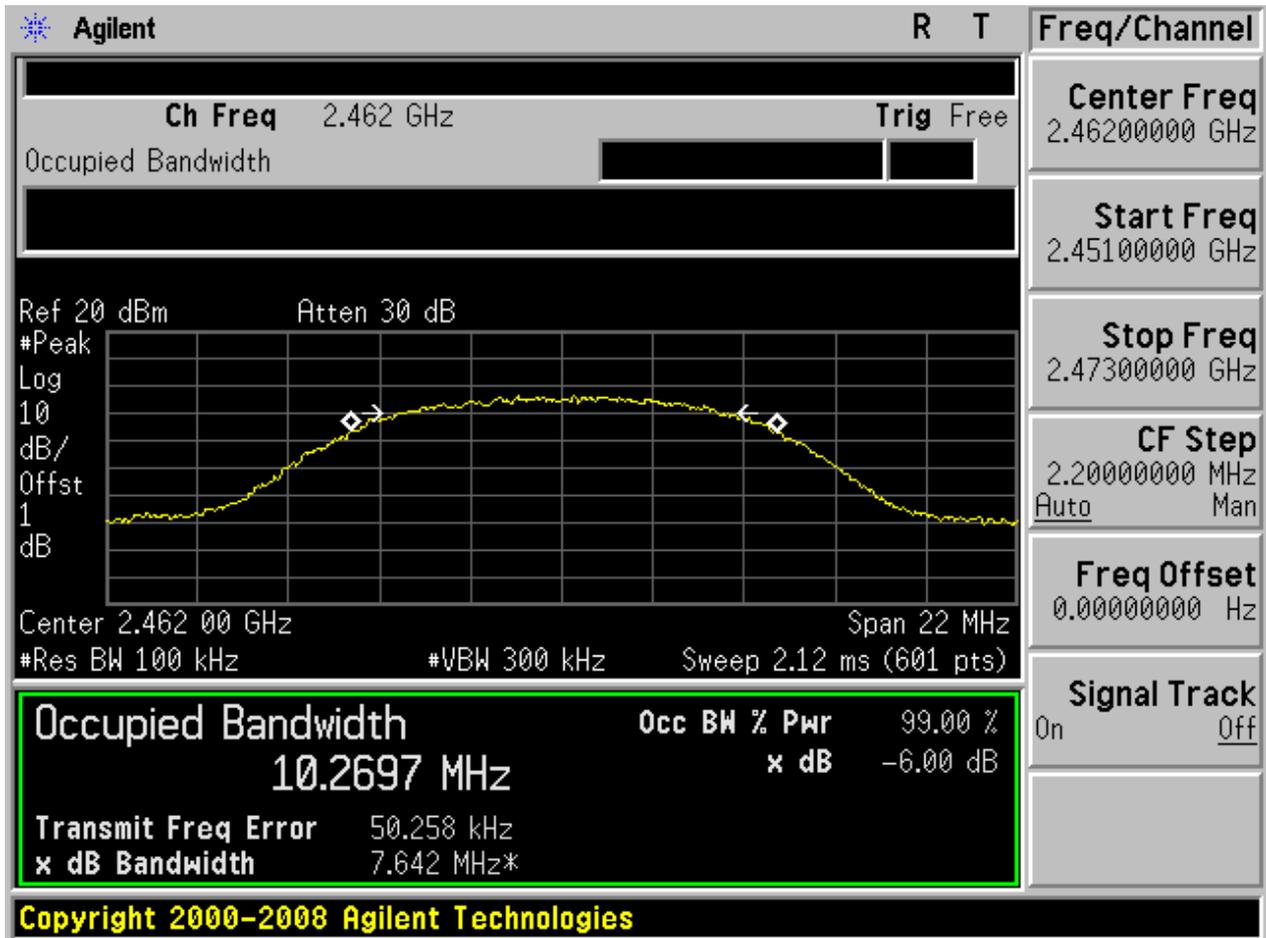
2.4 11B_M@Ant 2



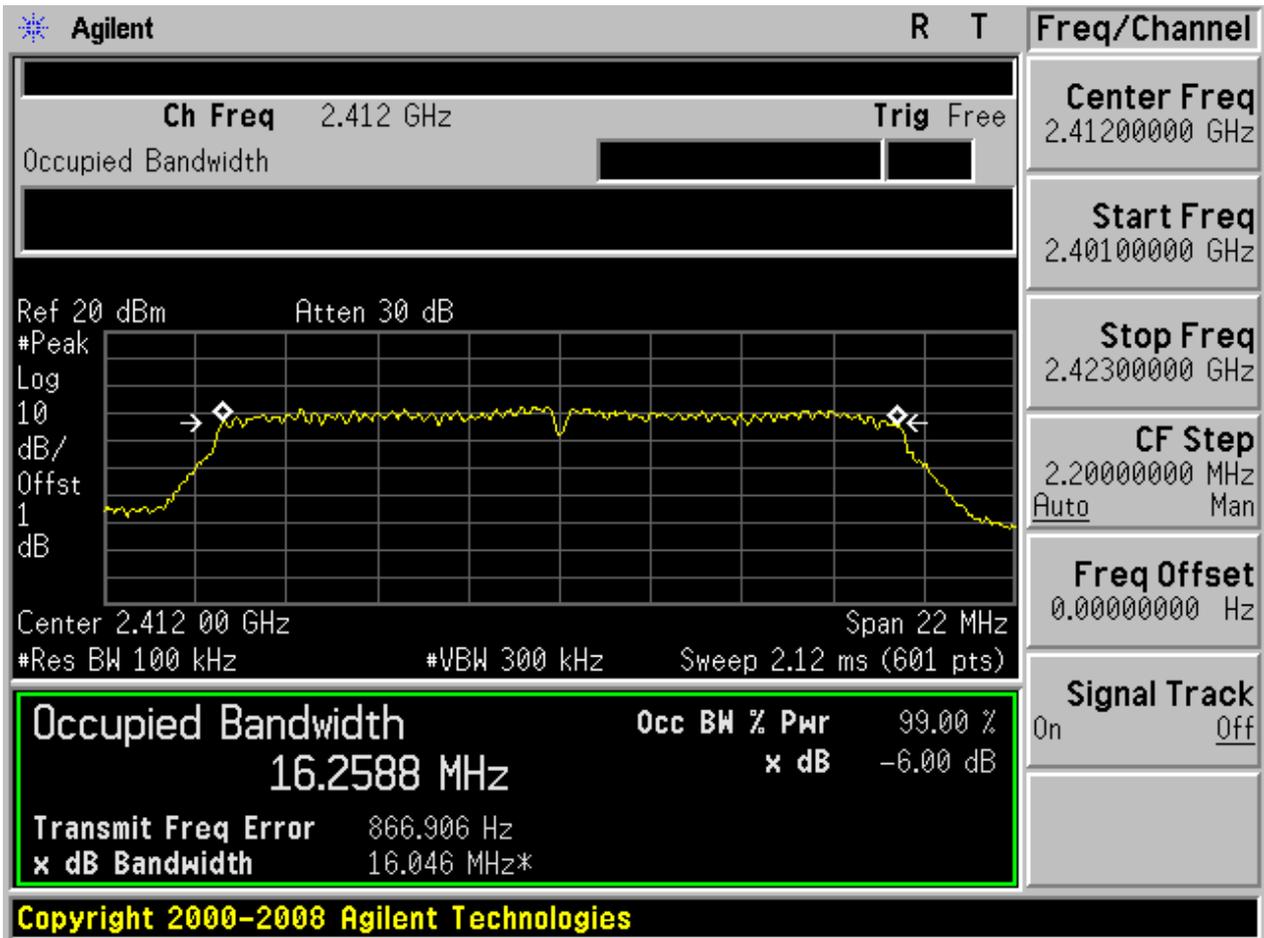
2.5 11B_H@Ant 1



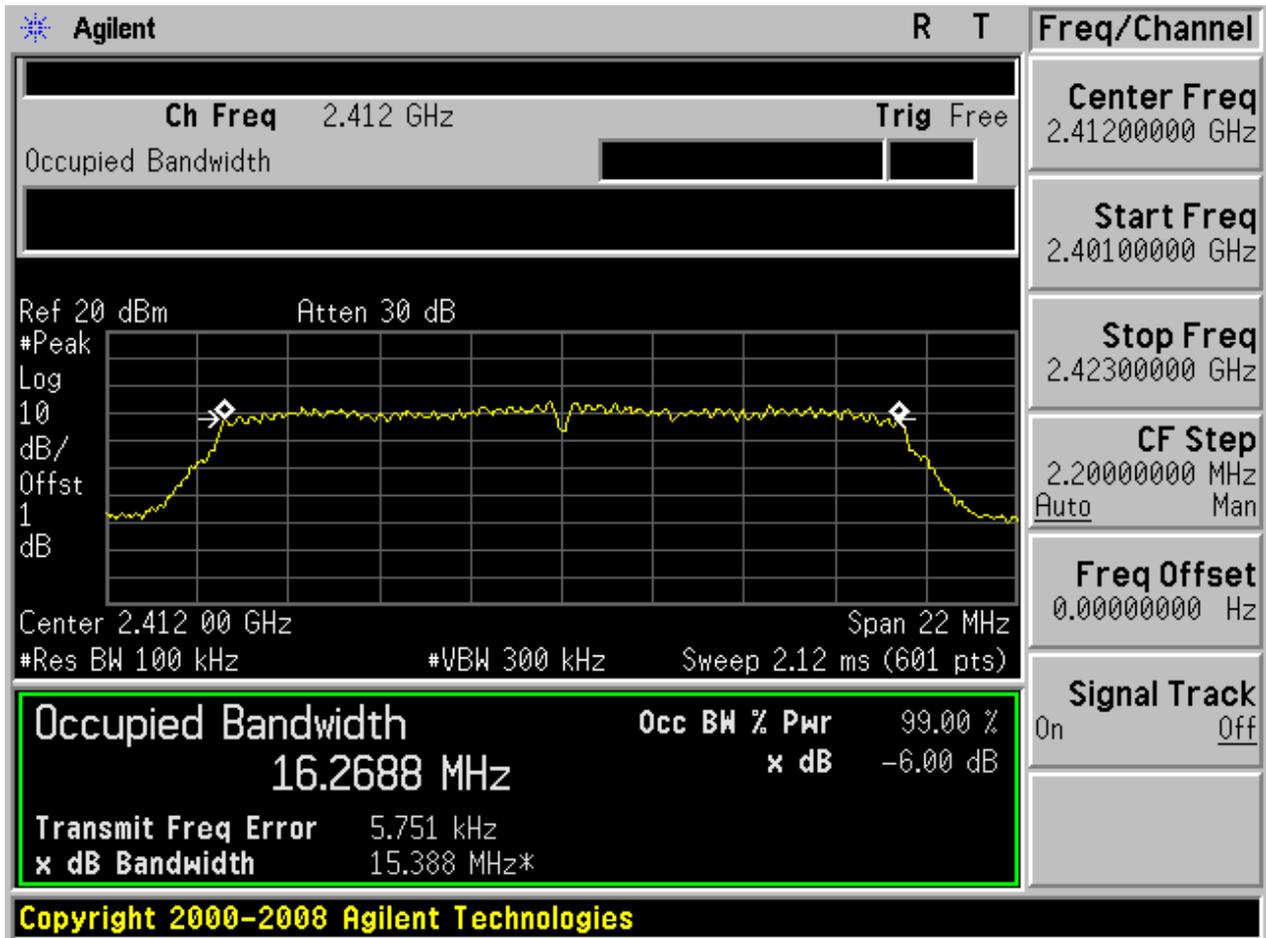
2.6 11B_H@Ant 2



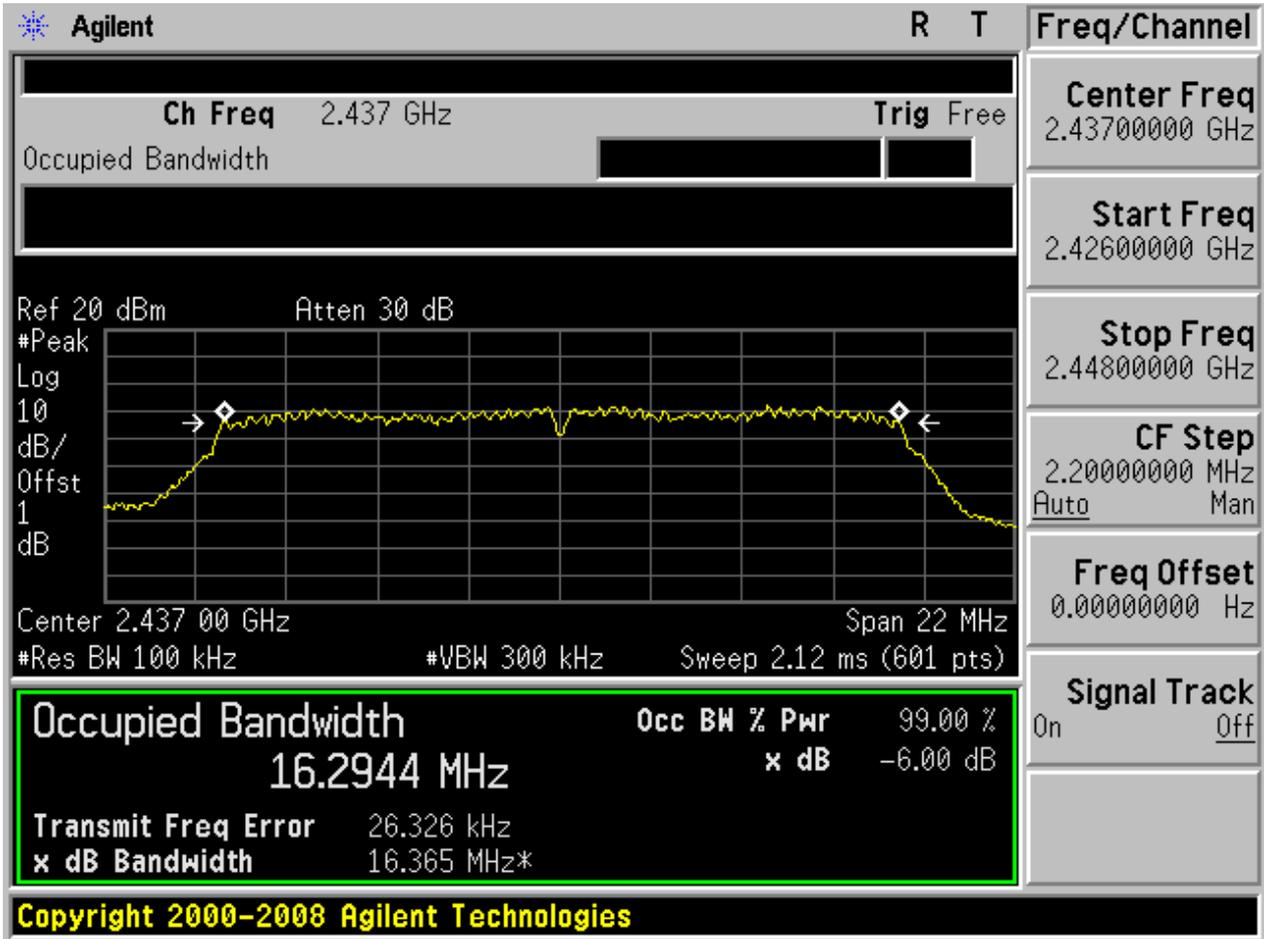
2.7 11G_L@Ant 1



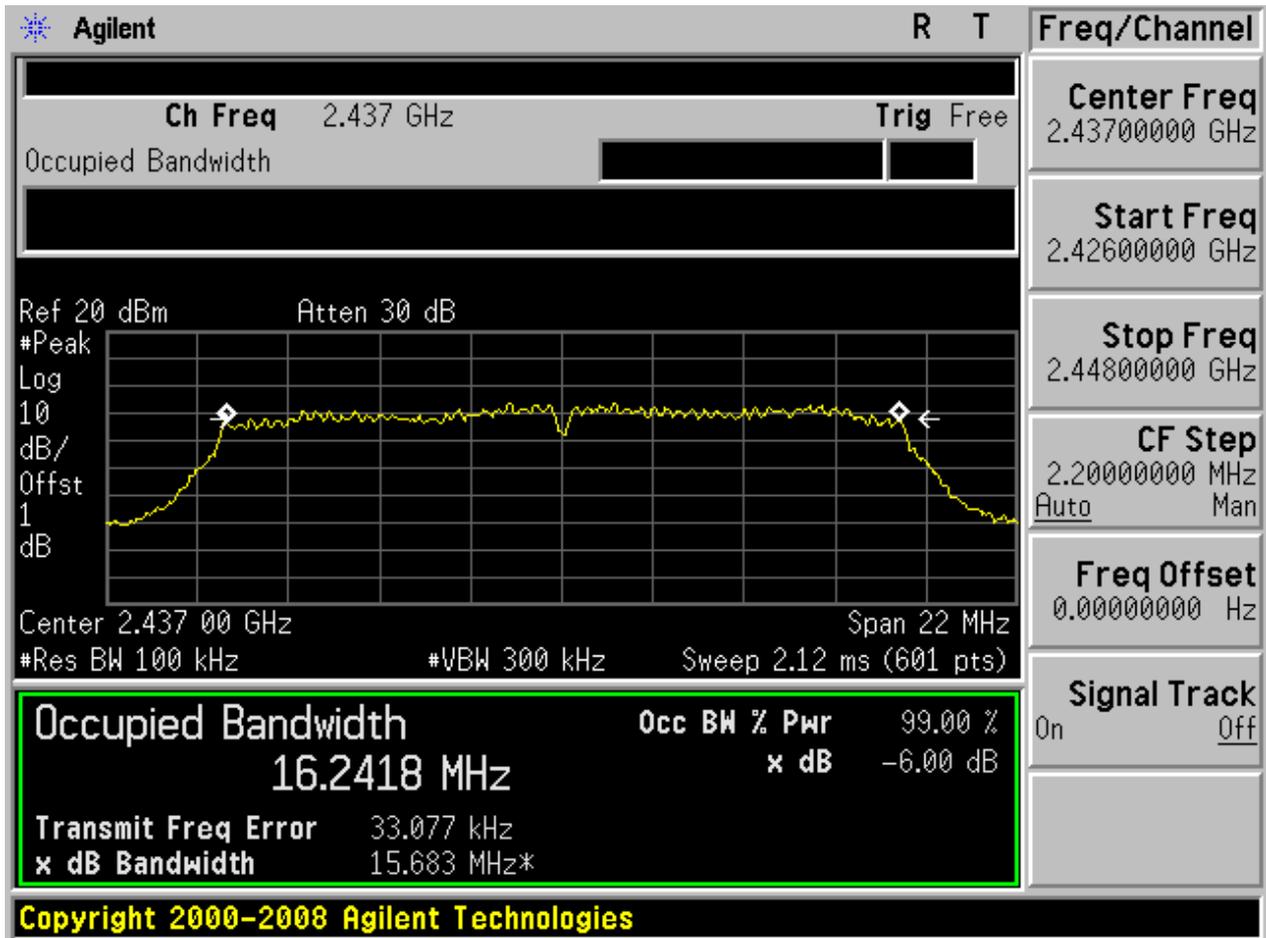
2.8 11G_L@Ant 2



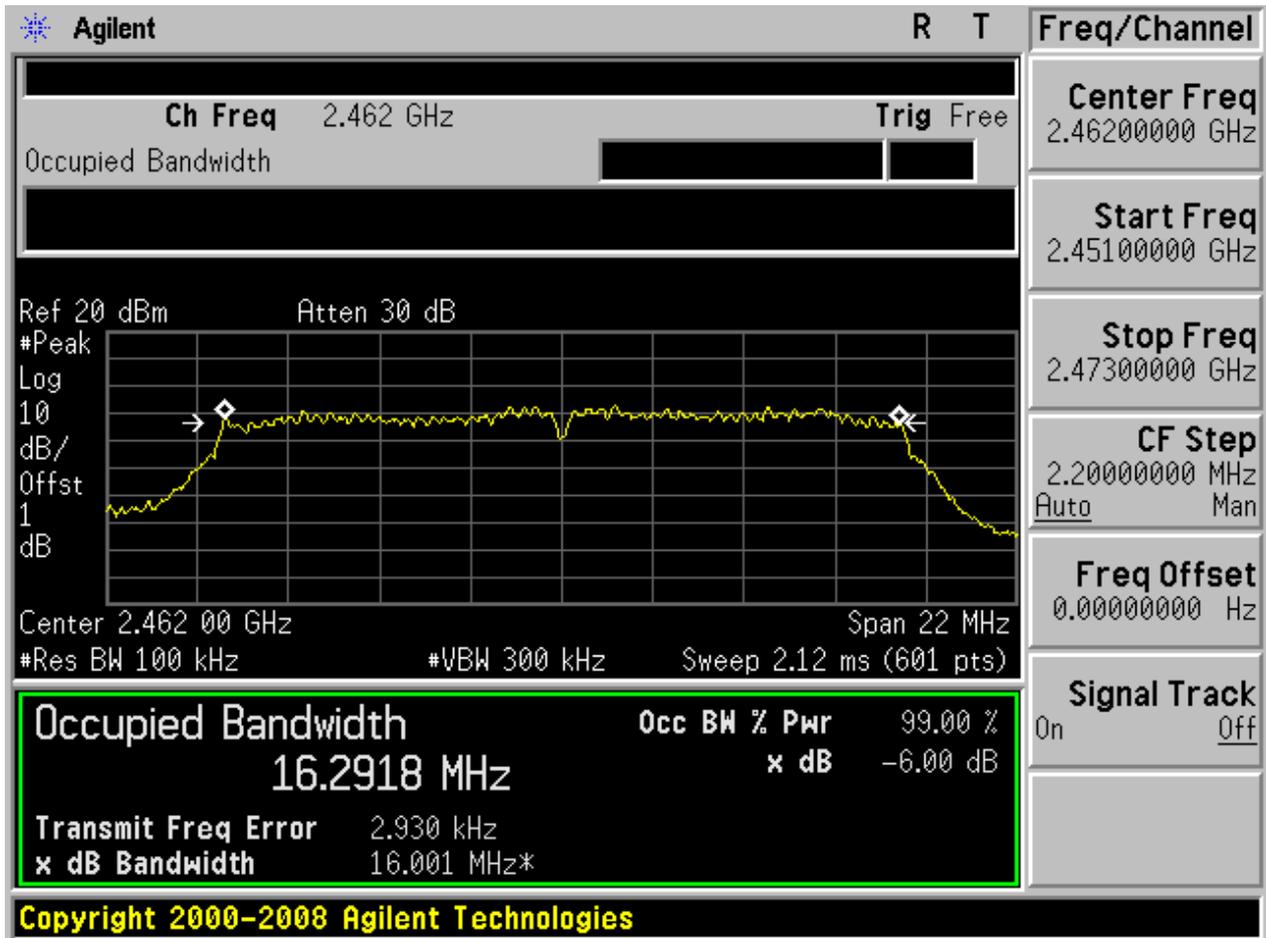
2.9 11G_M@Ant 1



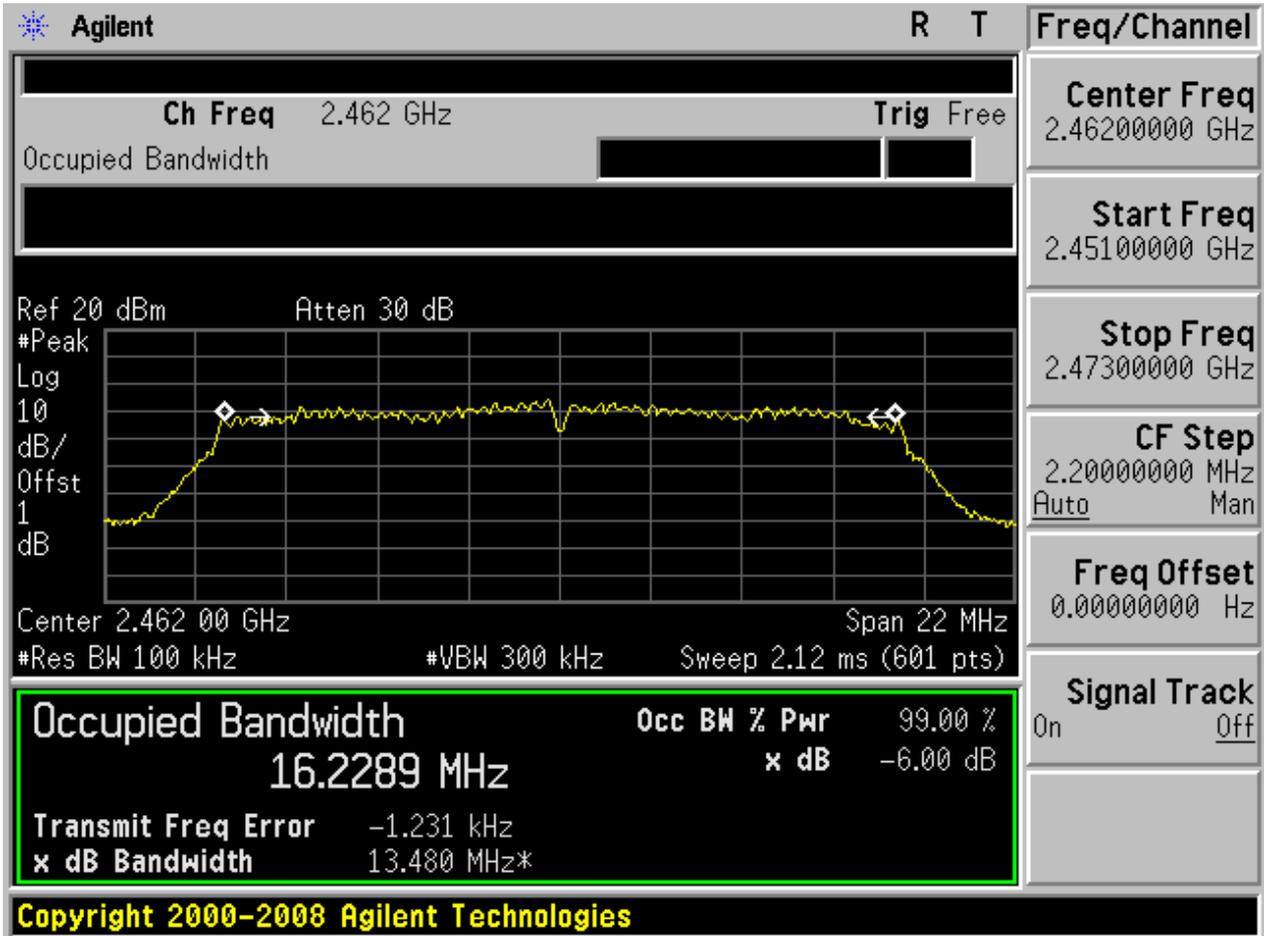
2.10 11G_M@Ant 2



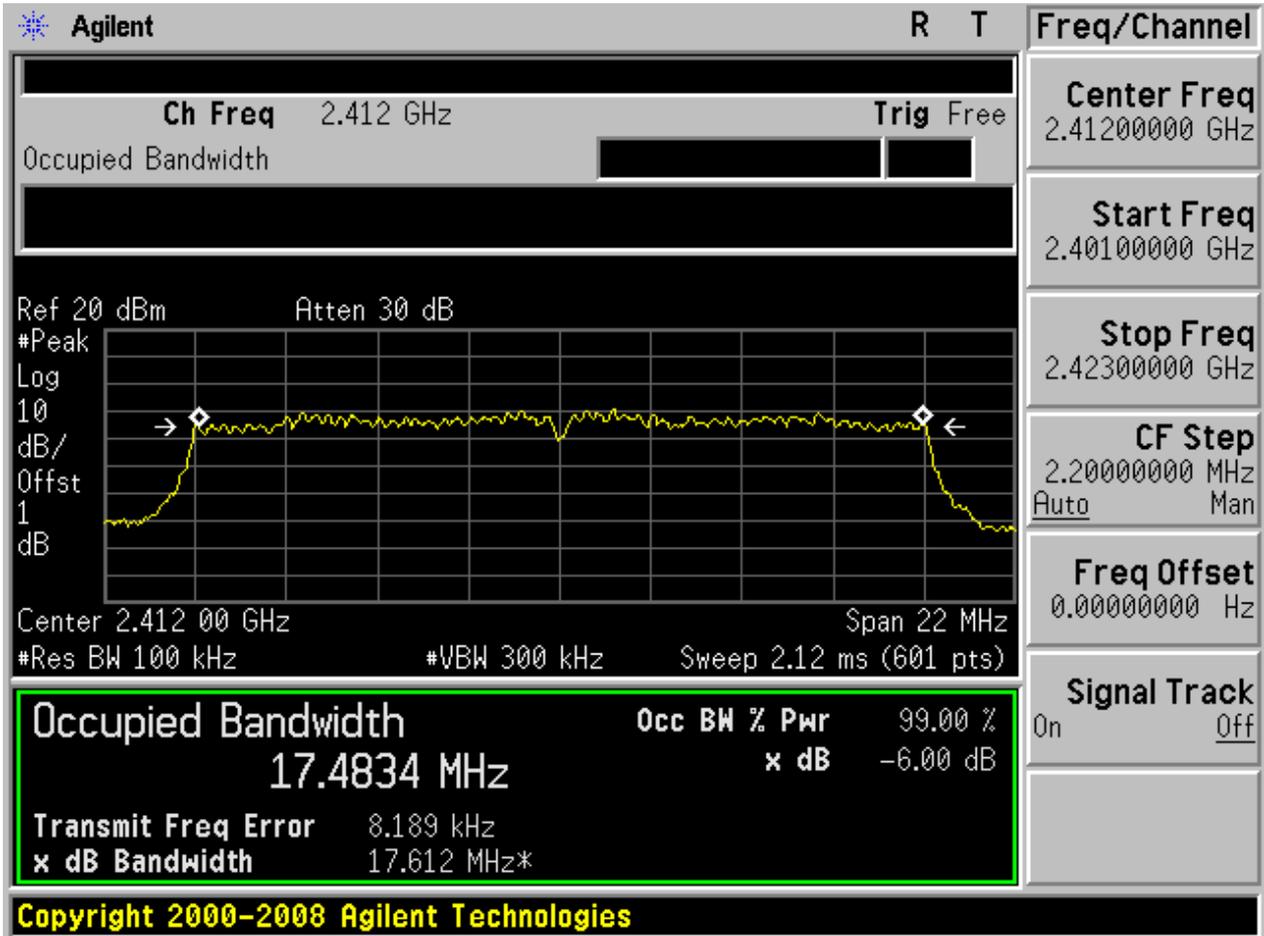
2.11 11G_H@Ant 1



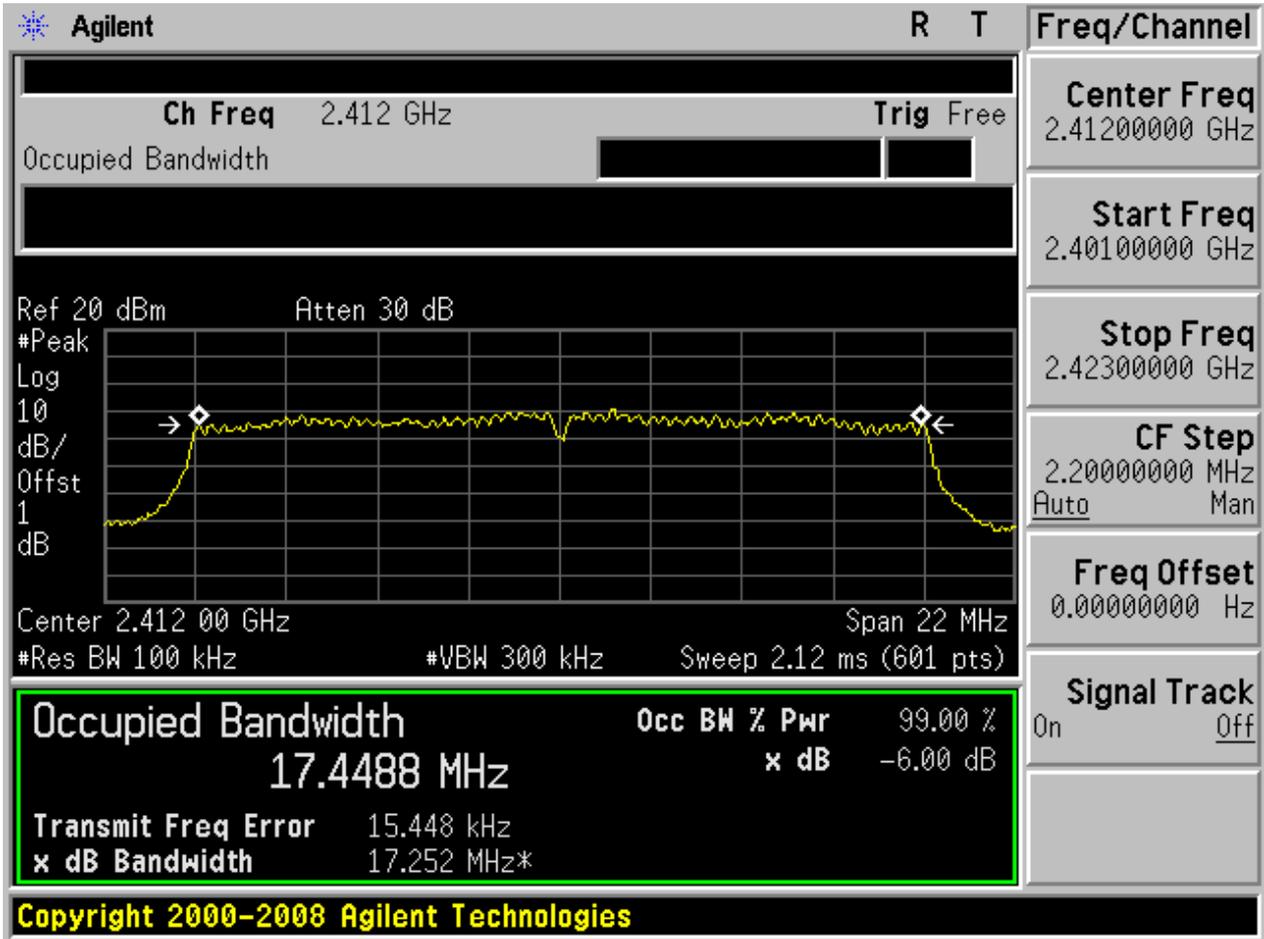
2.12 11G_H@Ant 2



2.13 11N20_L@Ant 1

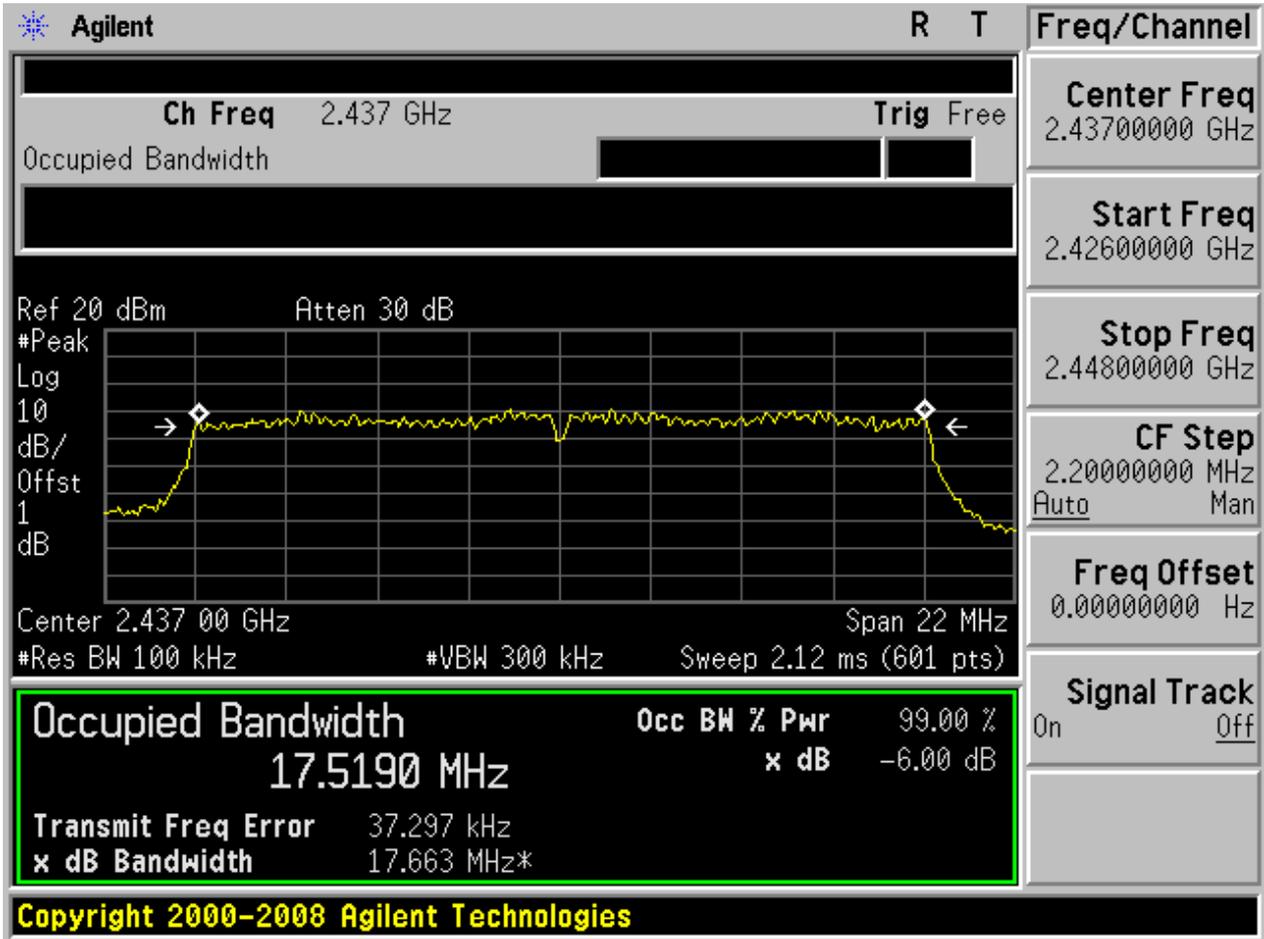


2.14 11N20_L@Ant 2

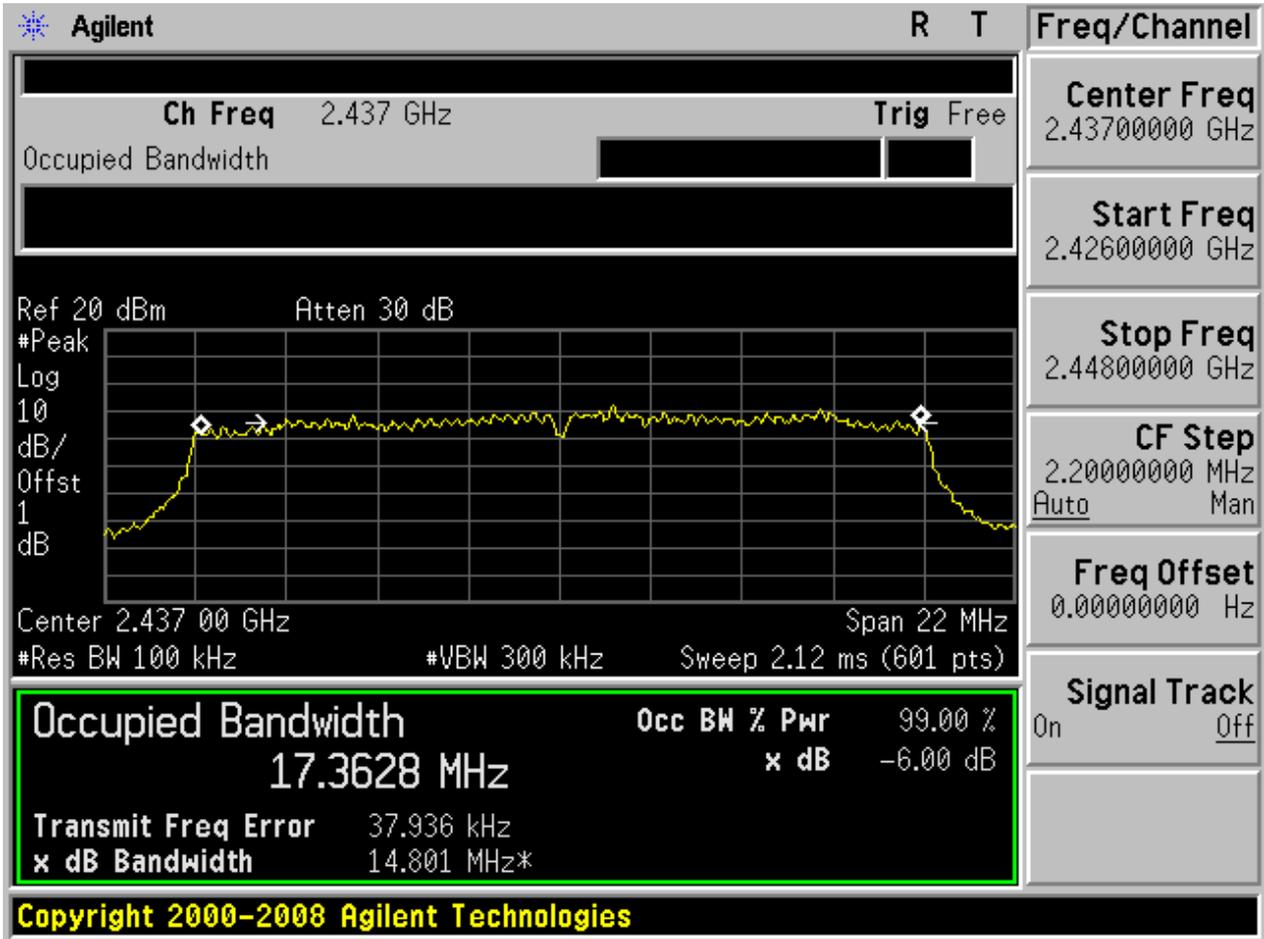




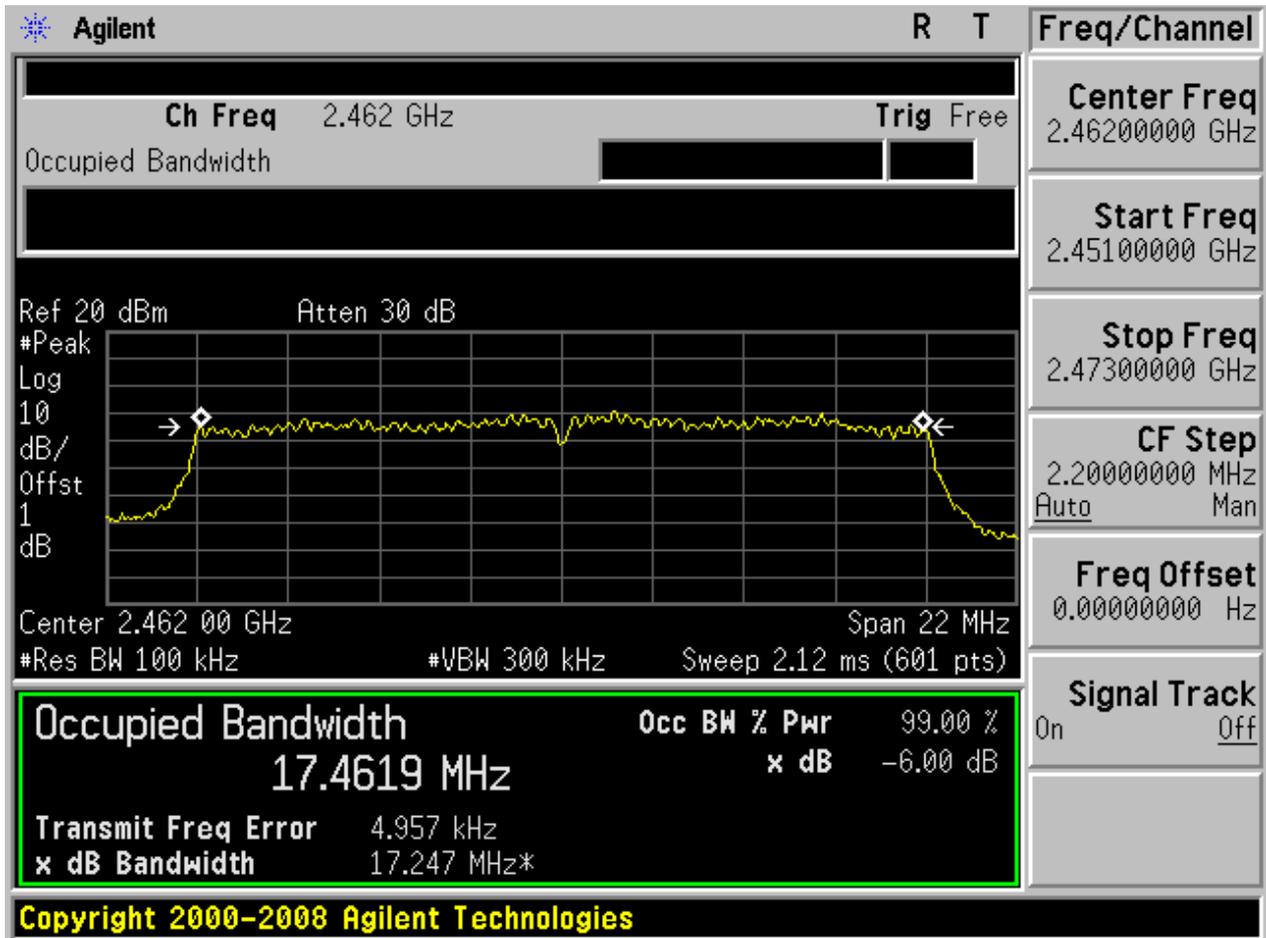
2.15 11N20_M@Ant 1



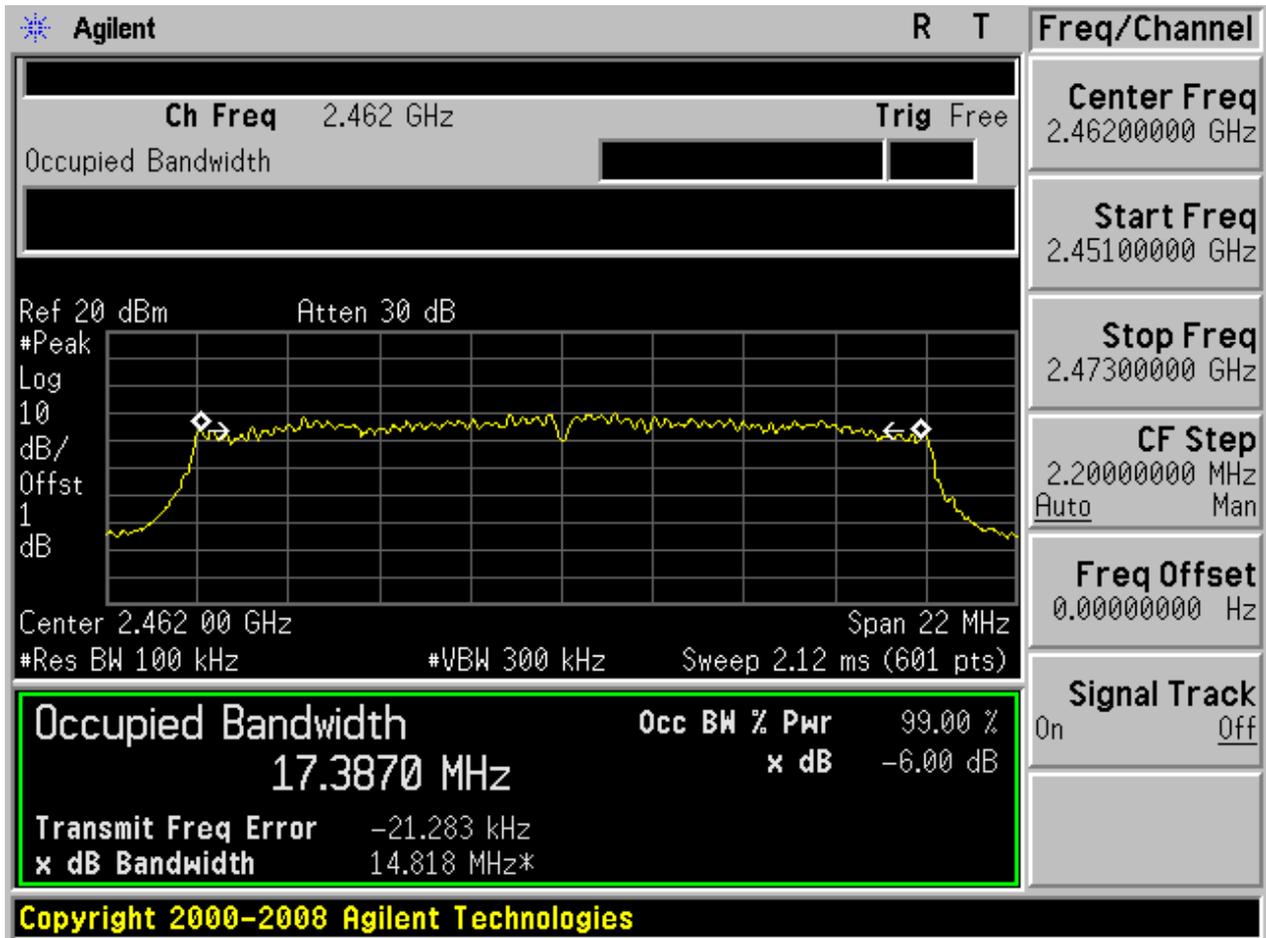
2.16 11N20_M@Ant 2



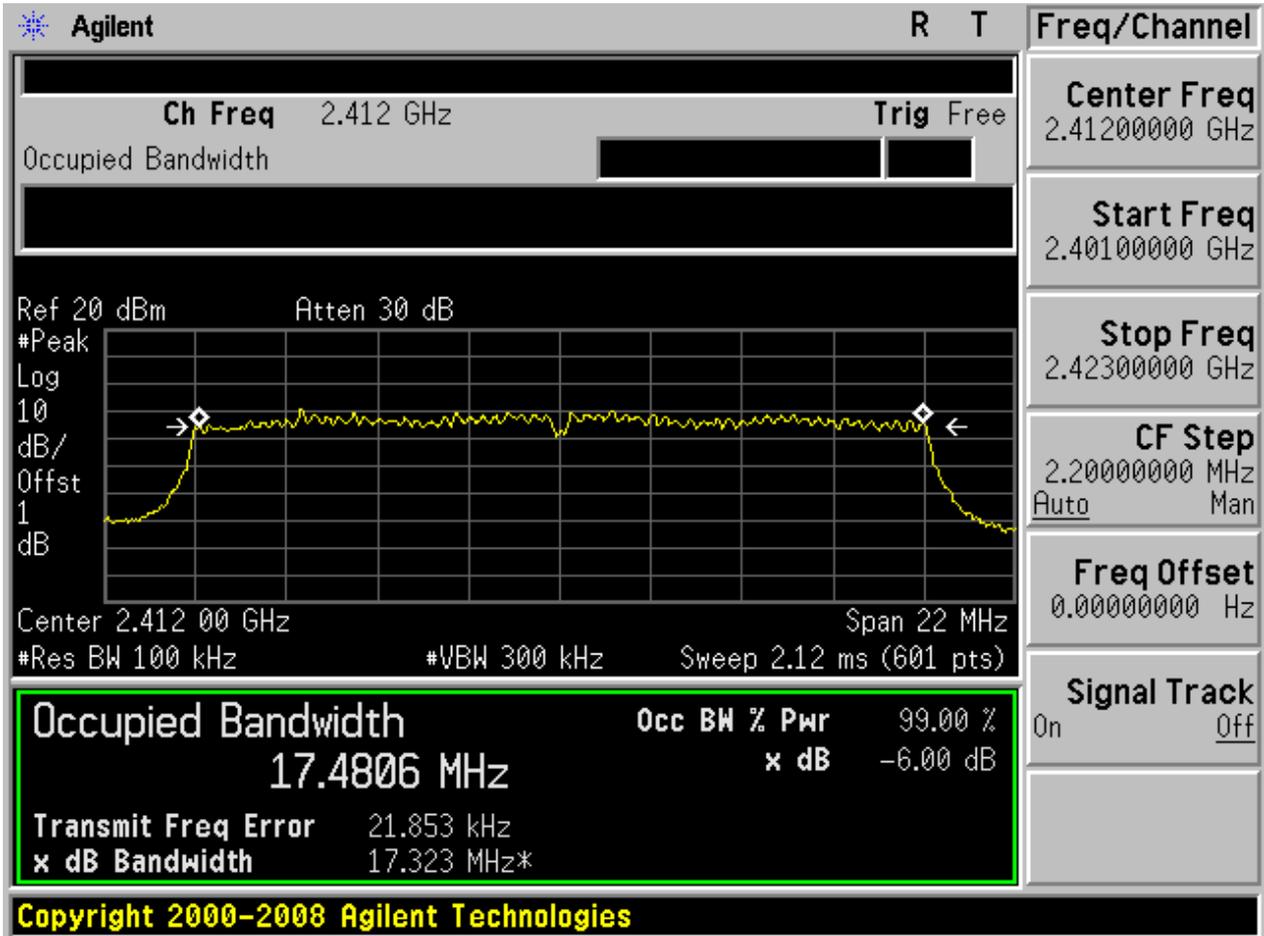
2.17 11N20_H@Ant 1



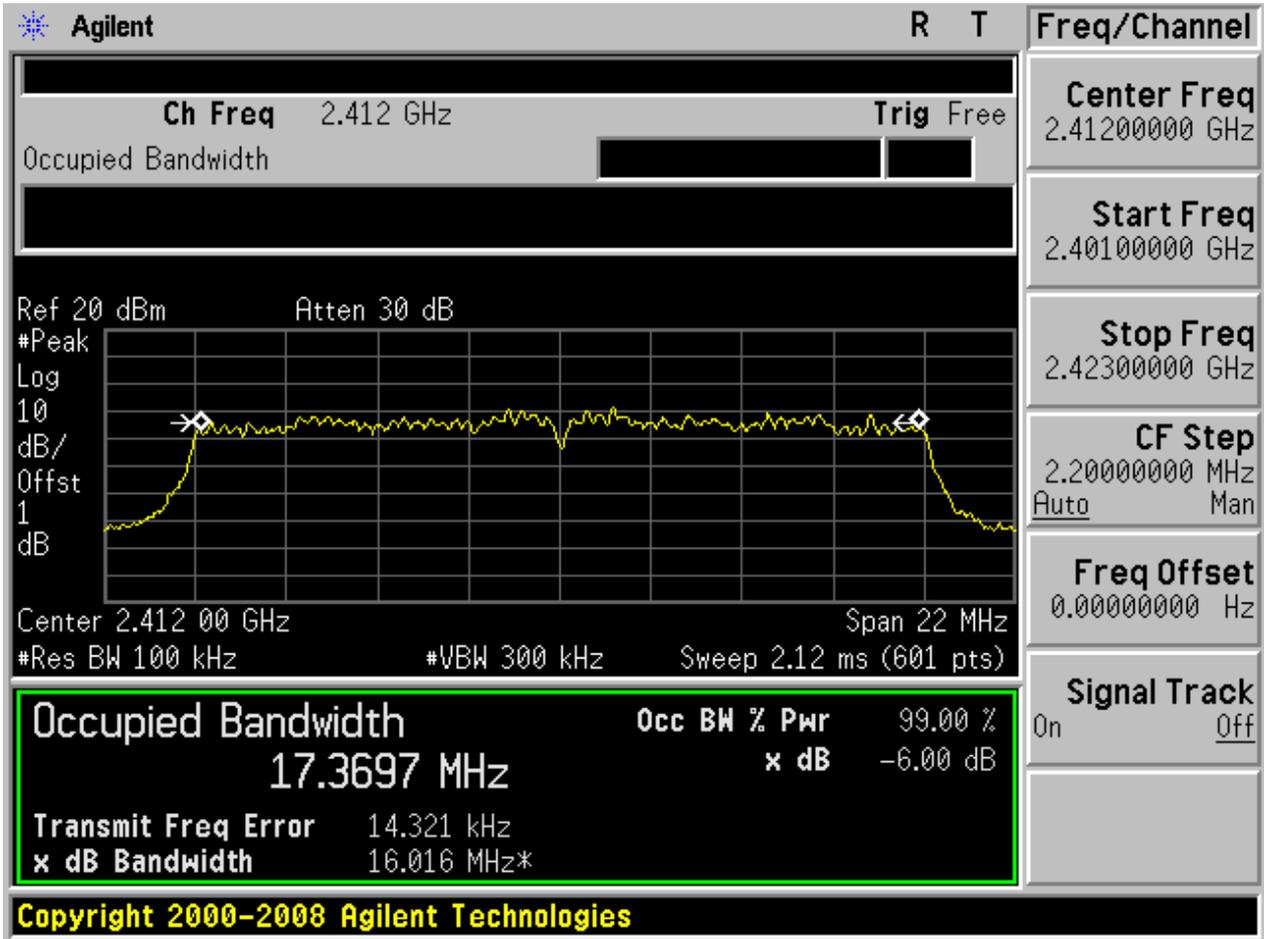
2.18 11N20_H@Ant 2



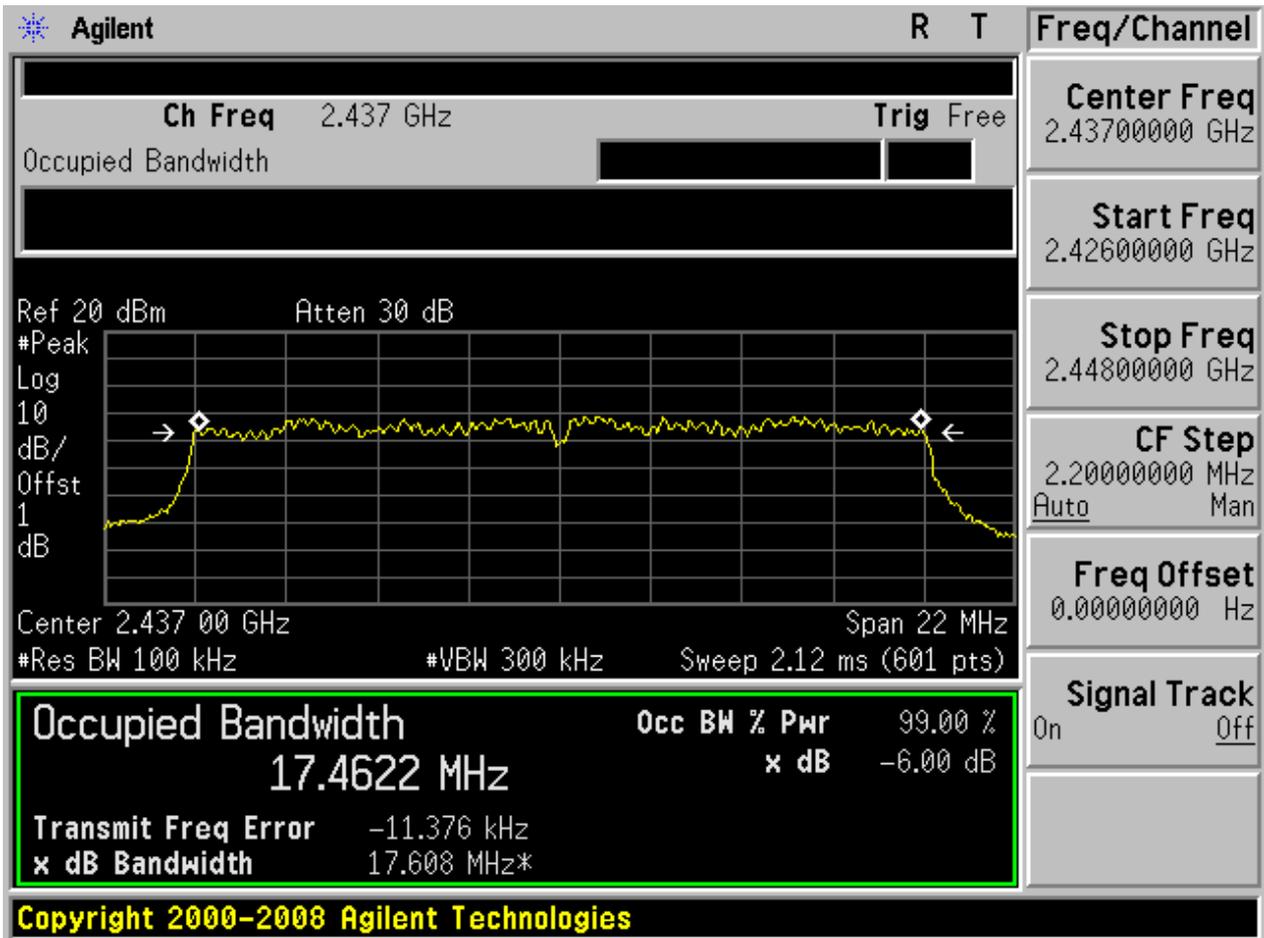
2.19 11N20m_L@Ant 1



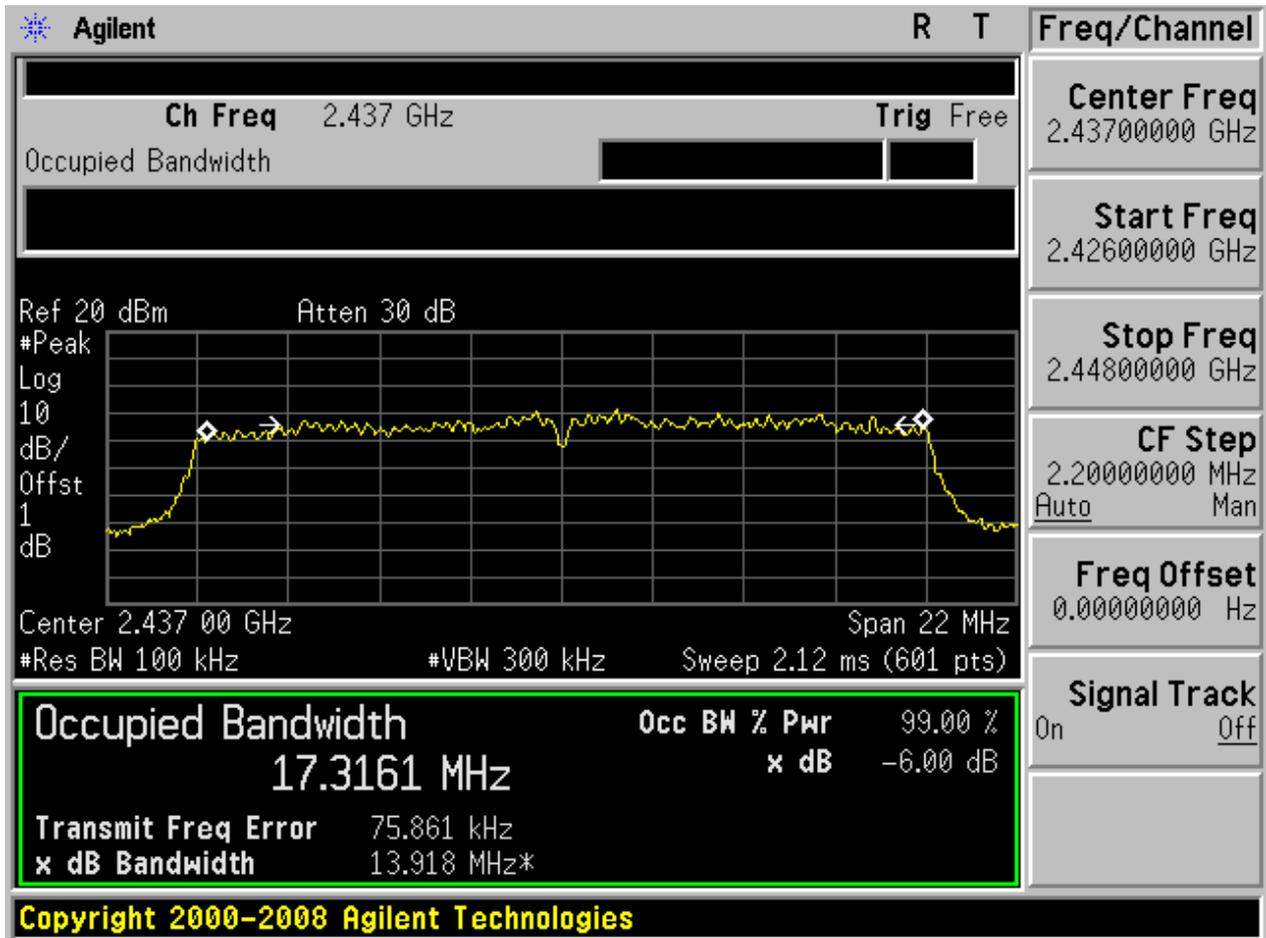
2.20 11N20m_L@Ant 2



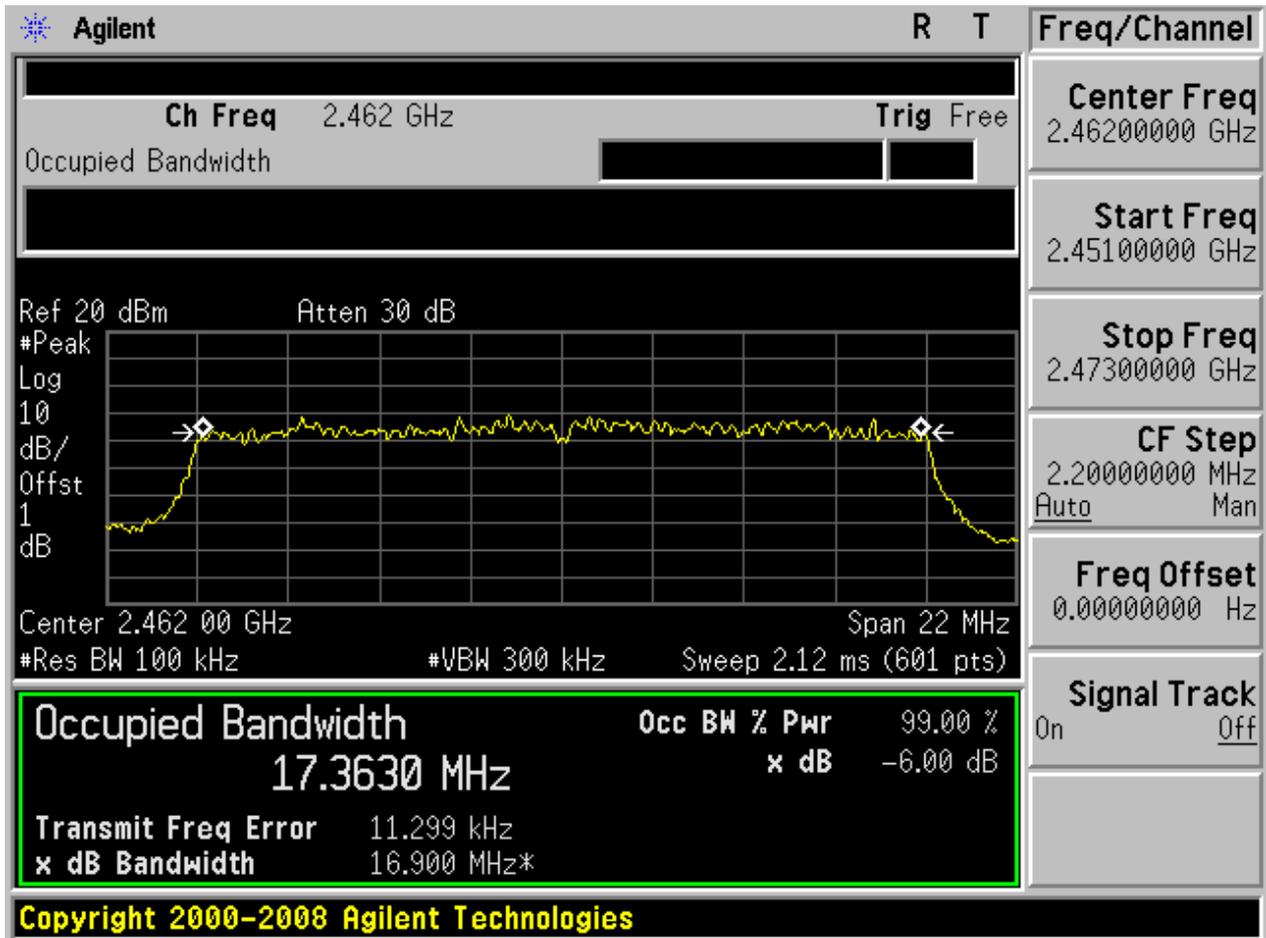
2.21 11N20m_M@Ant 1



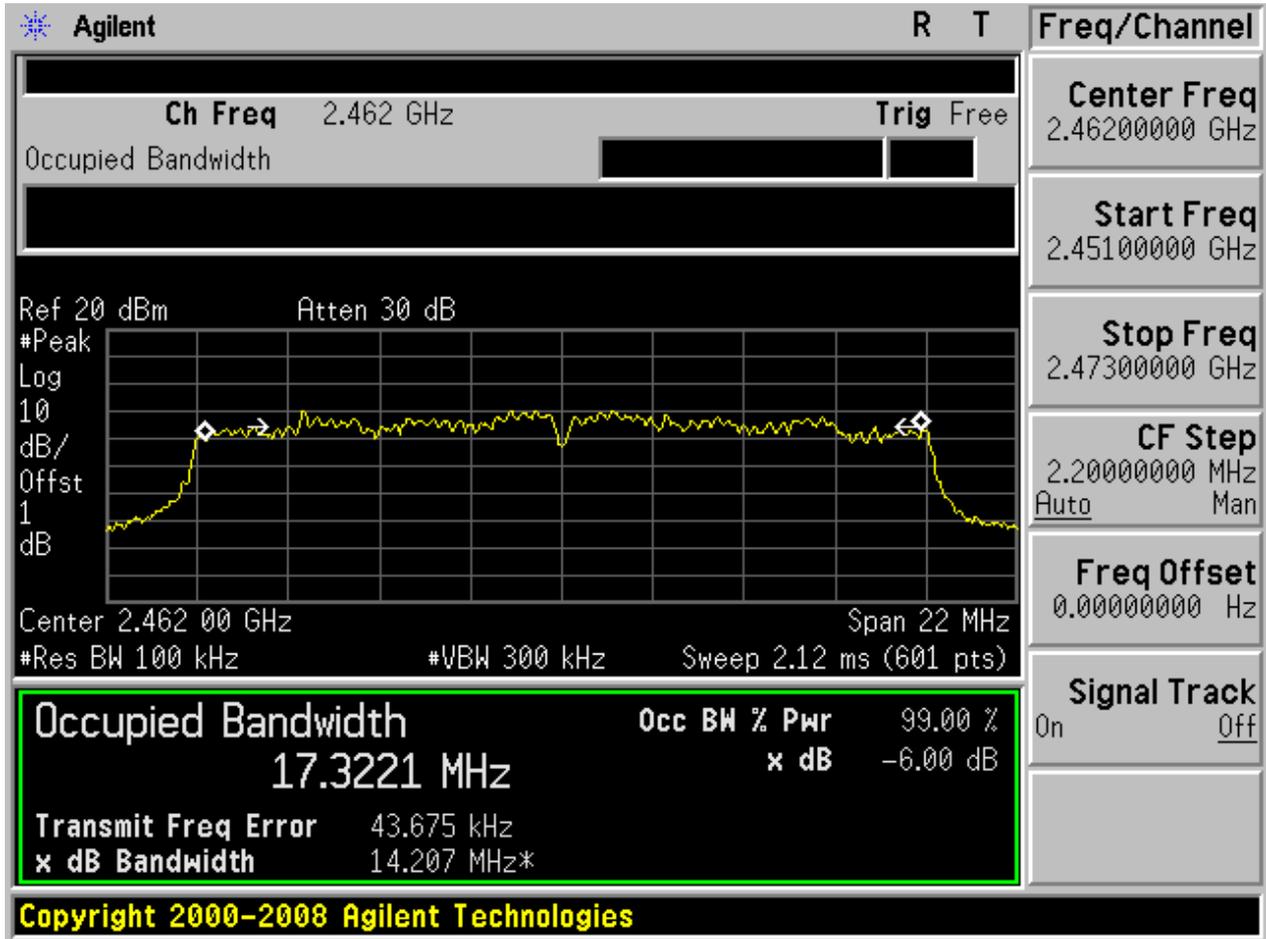
2.22 11N20m_M@Ant 2



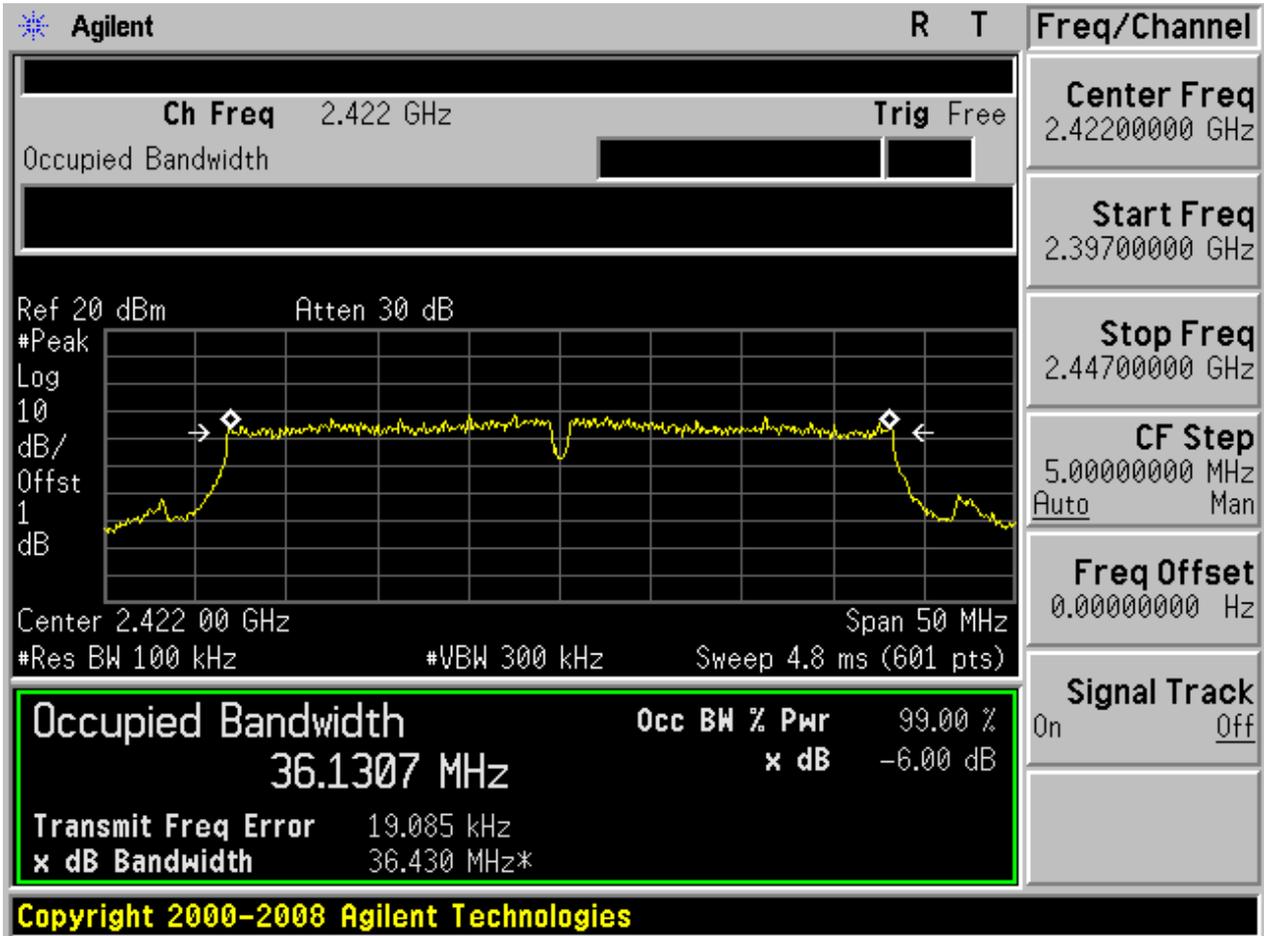
2.23 11N20m_H@Ant 1



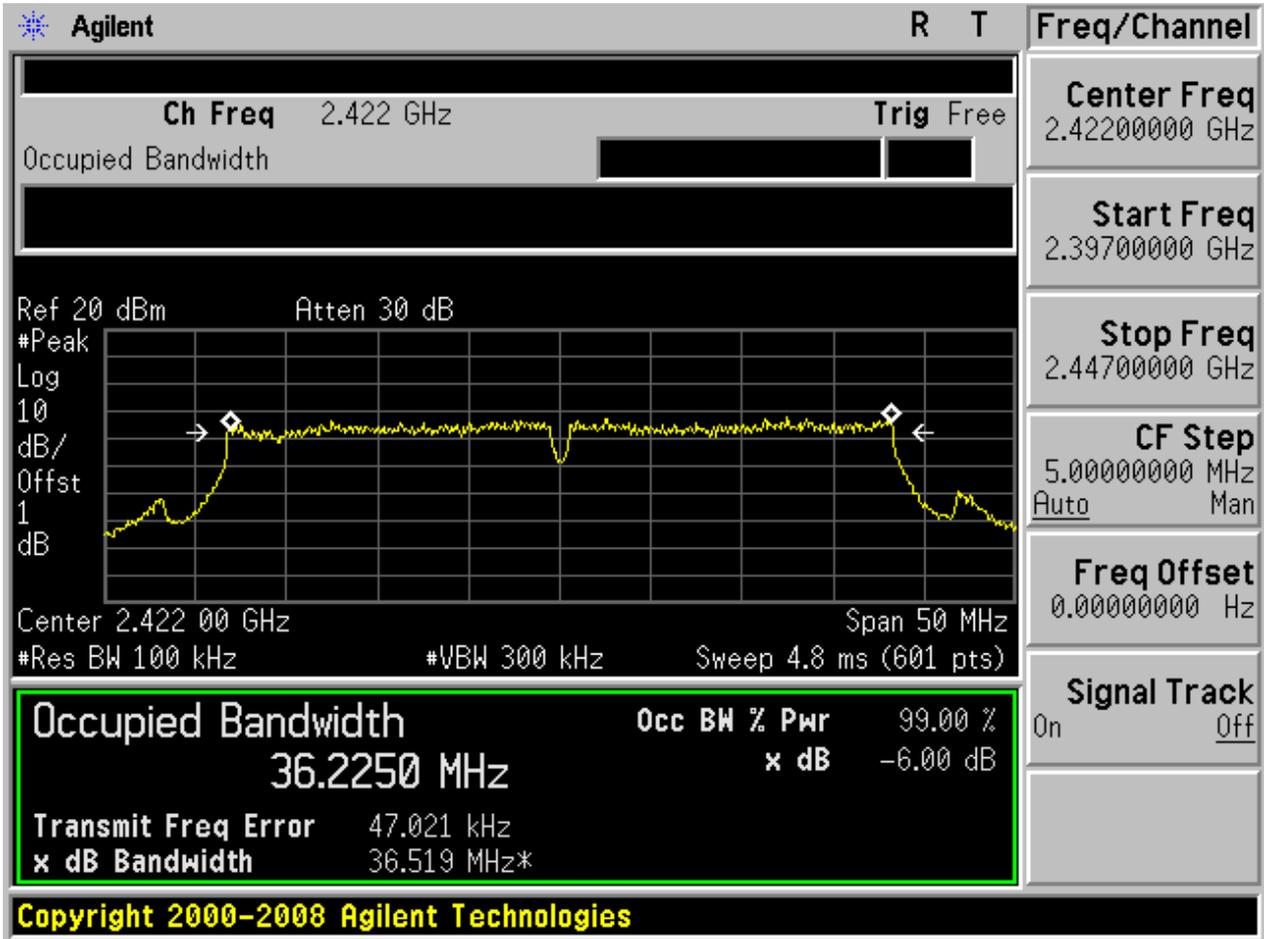
2.24 11N20m_H@Ant 2



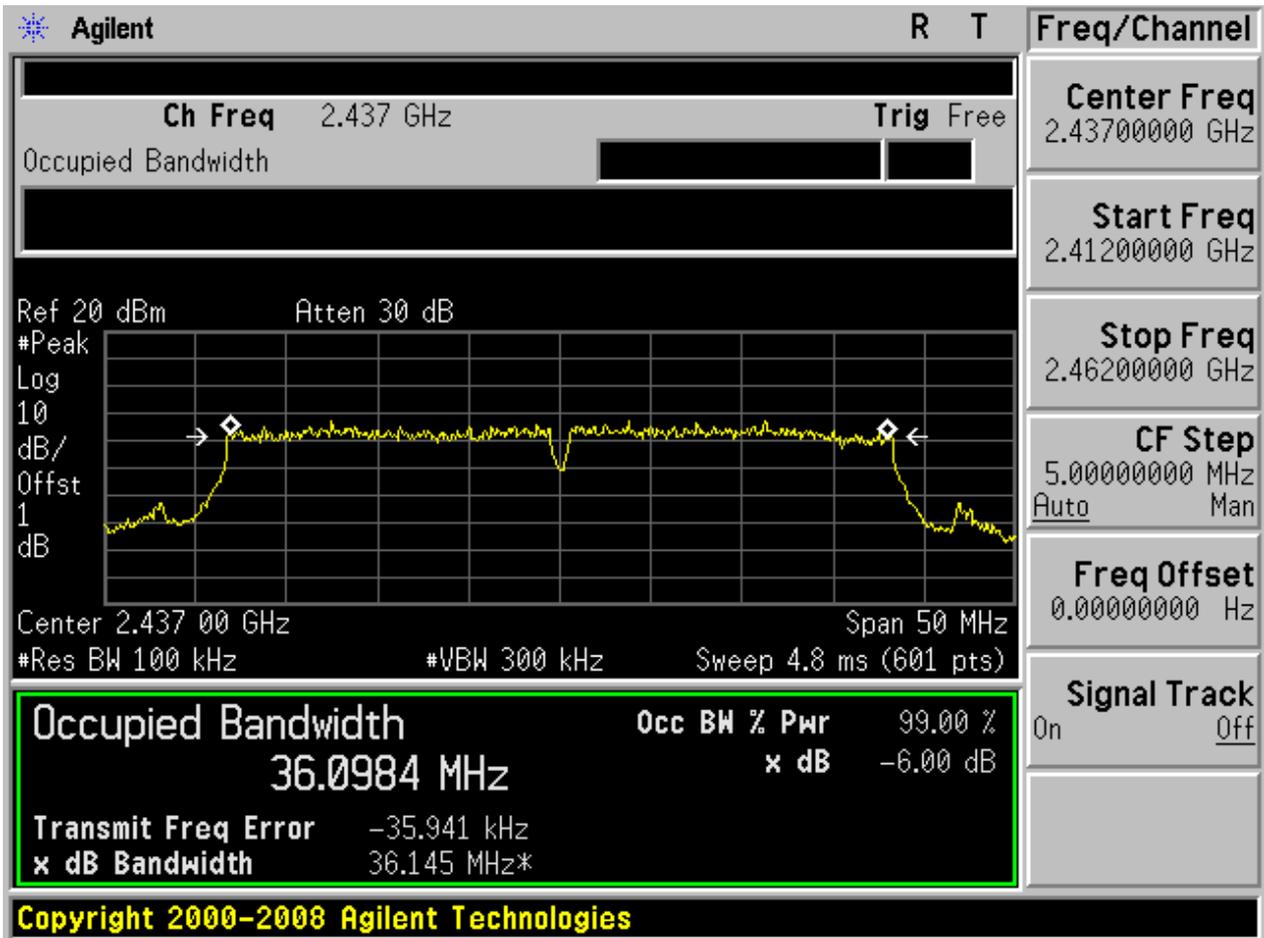
2.25 11N40_L@Ant 1



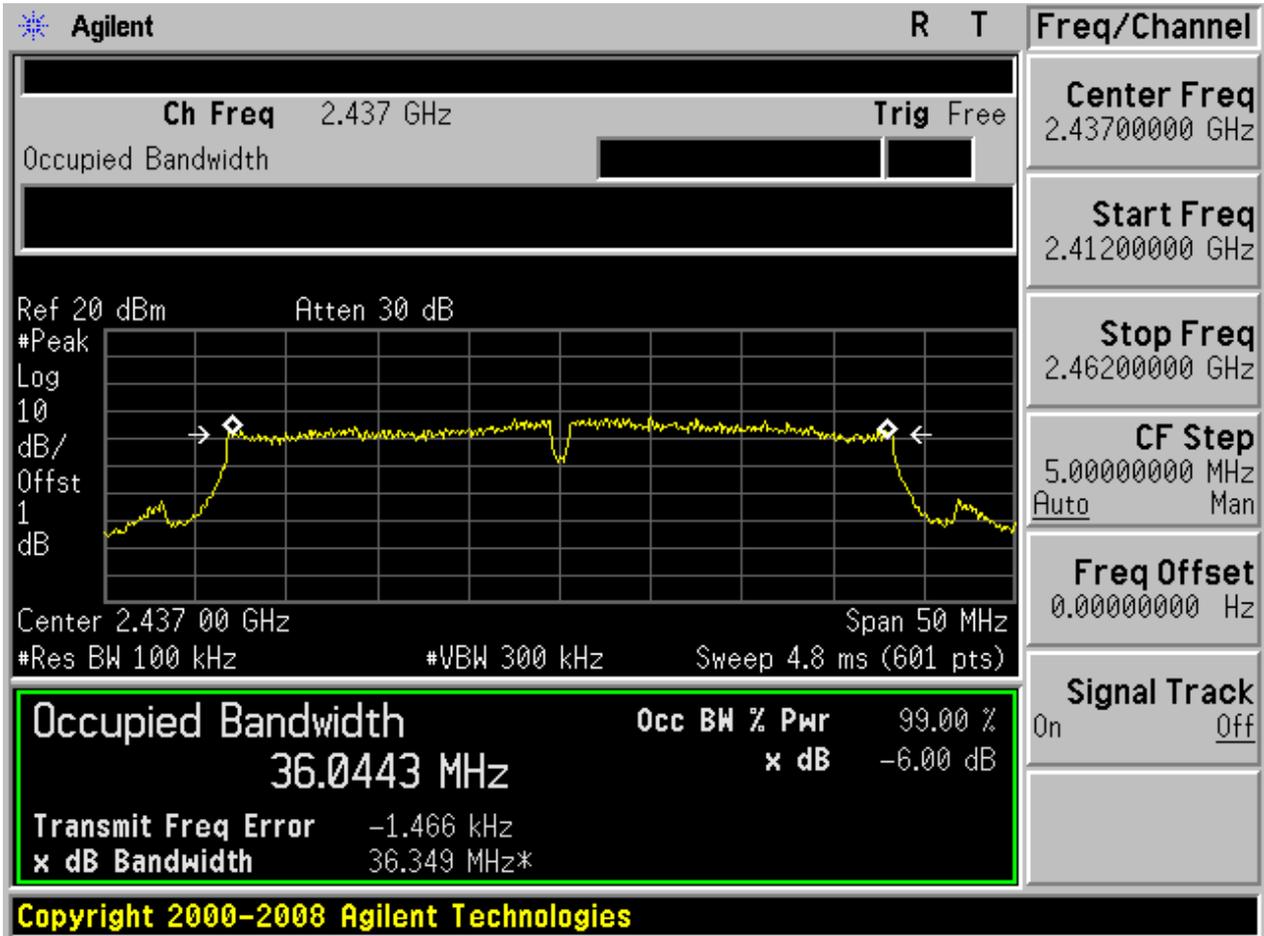
2.26 11N40_L@Ant 2



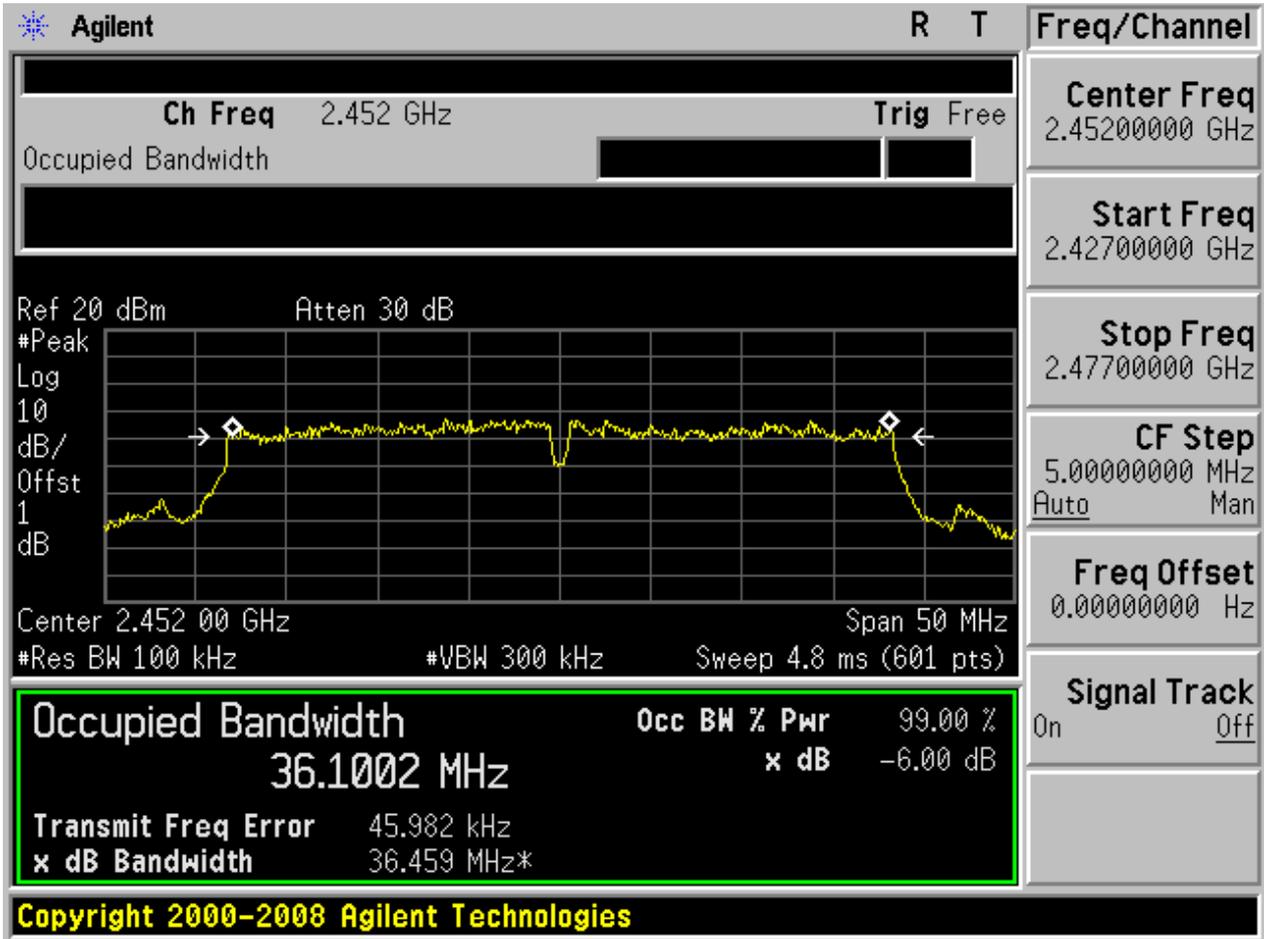
2.27 11N40_M@Ant 1



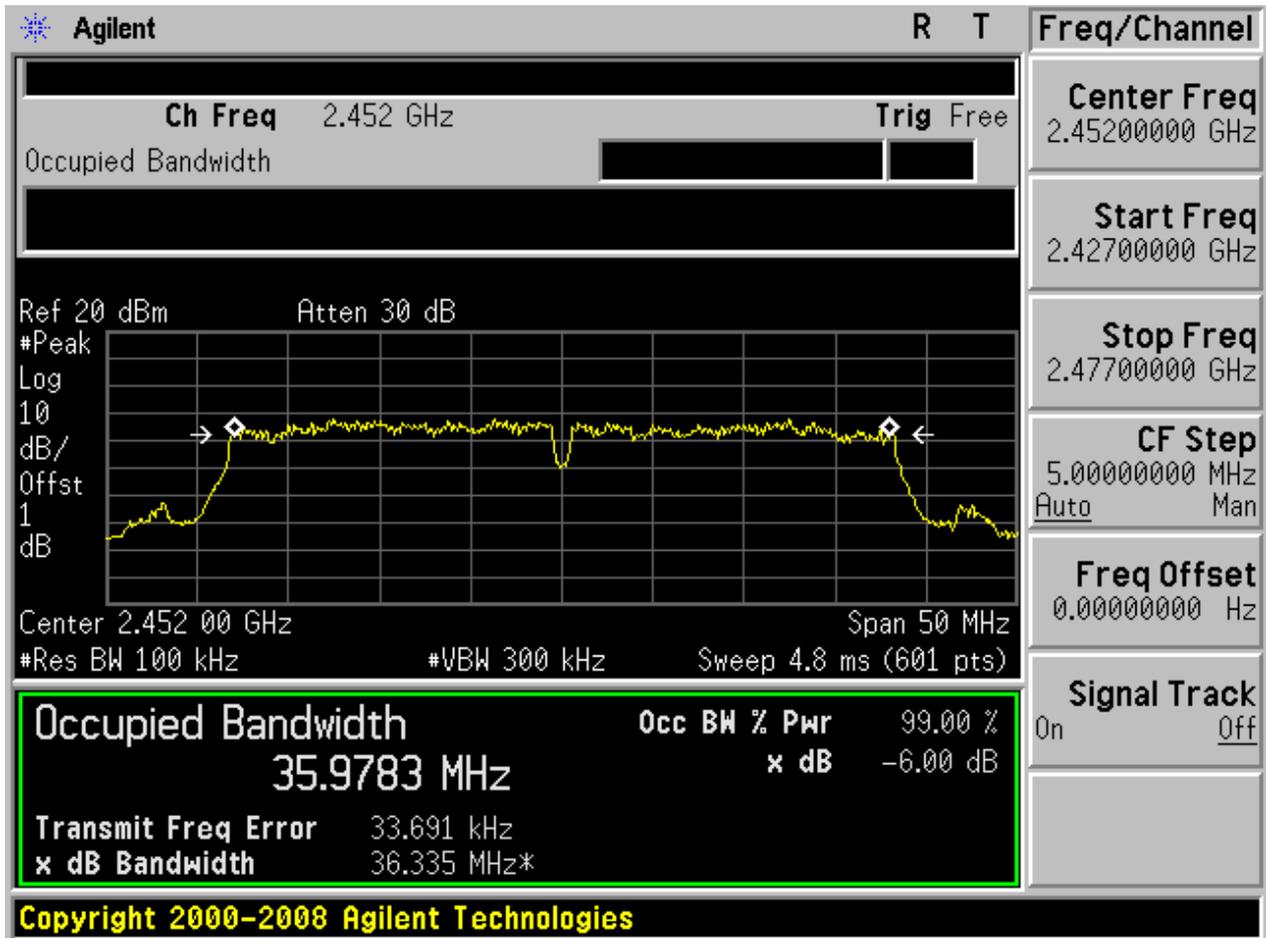
2.28 11N40_M@Ant 2



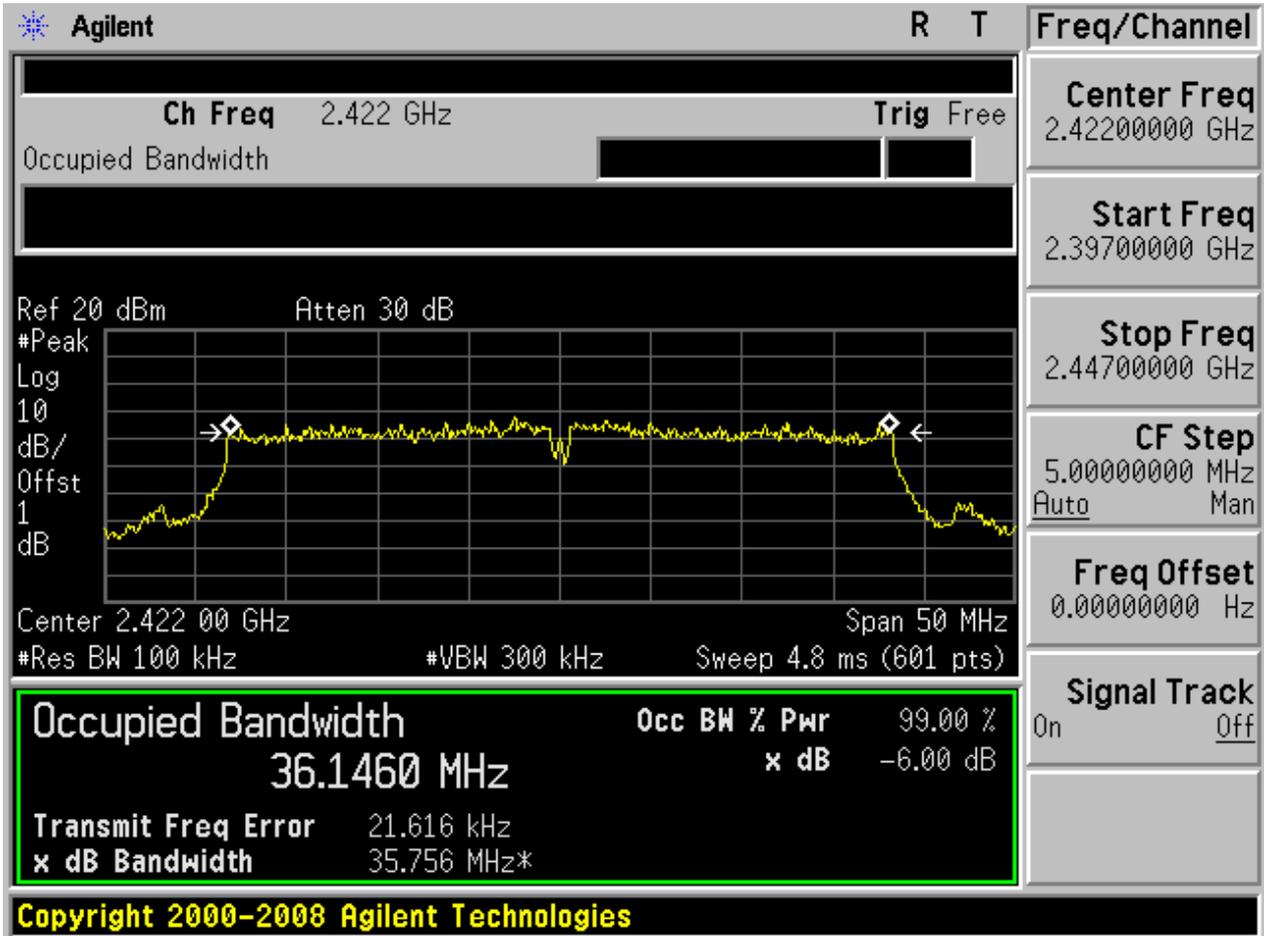
2.29 11N40_H@Ant 1



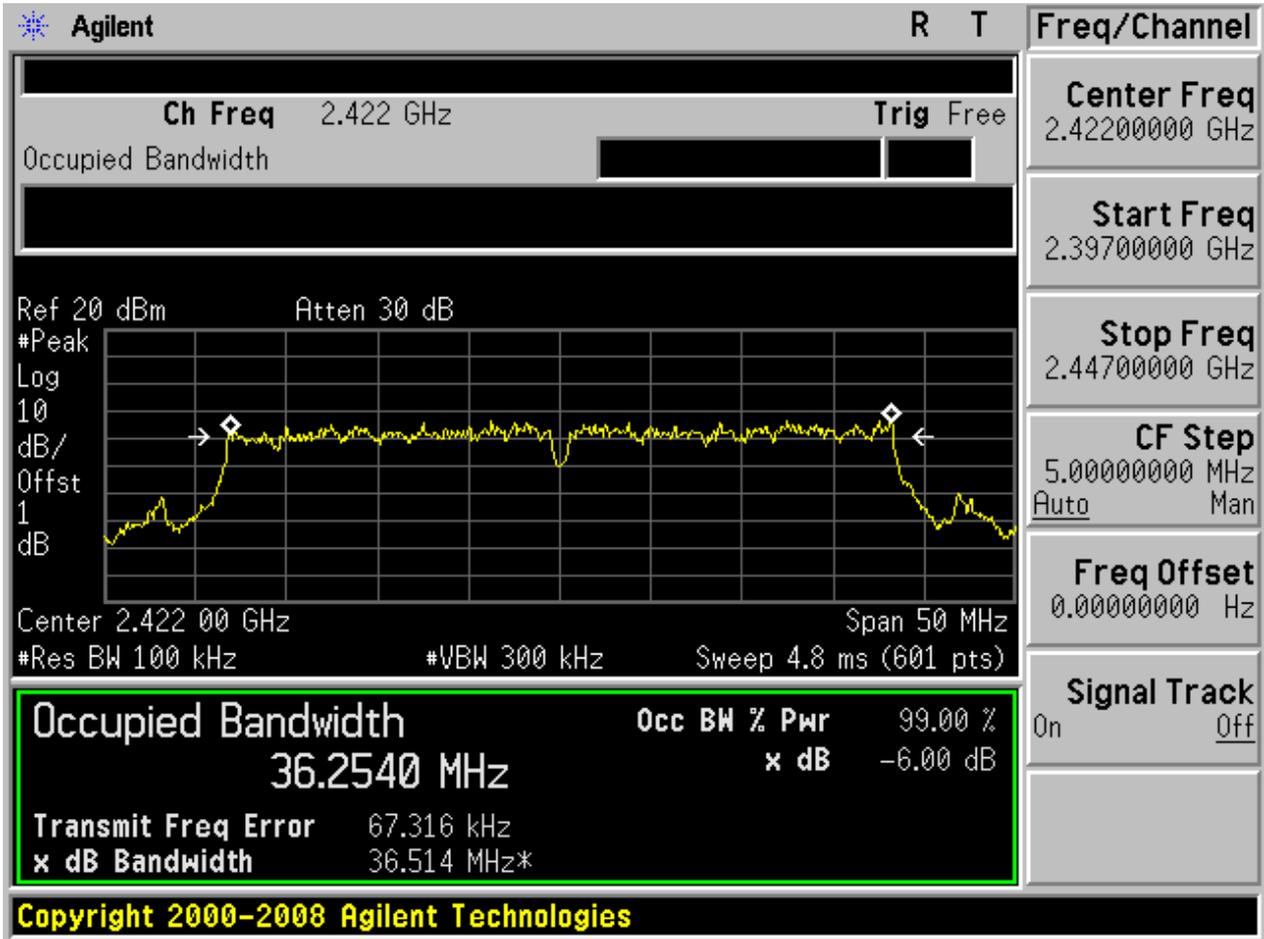
2.30 11N40_H@Ant 2



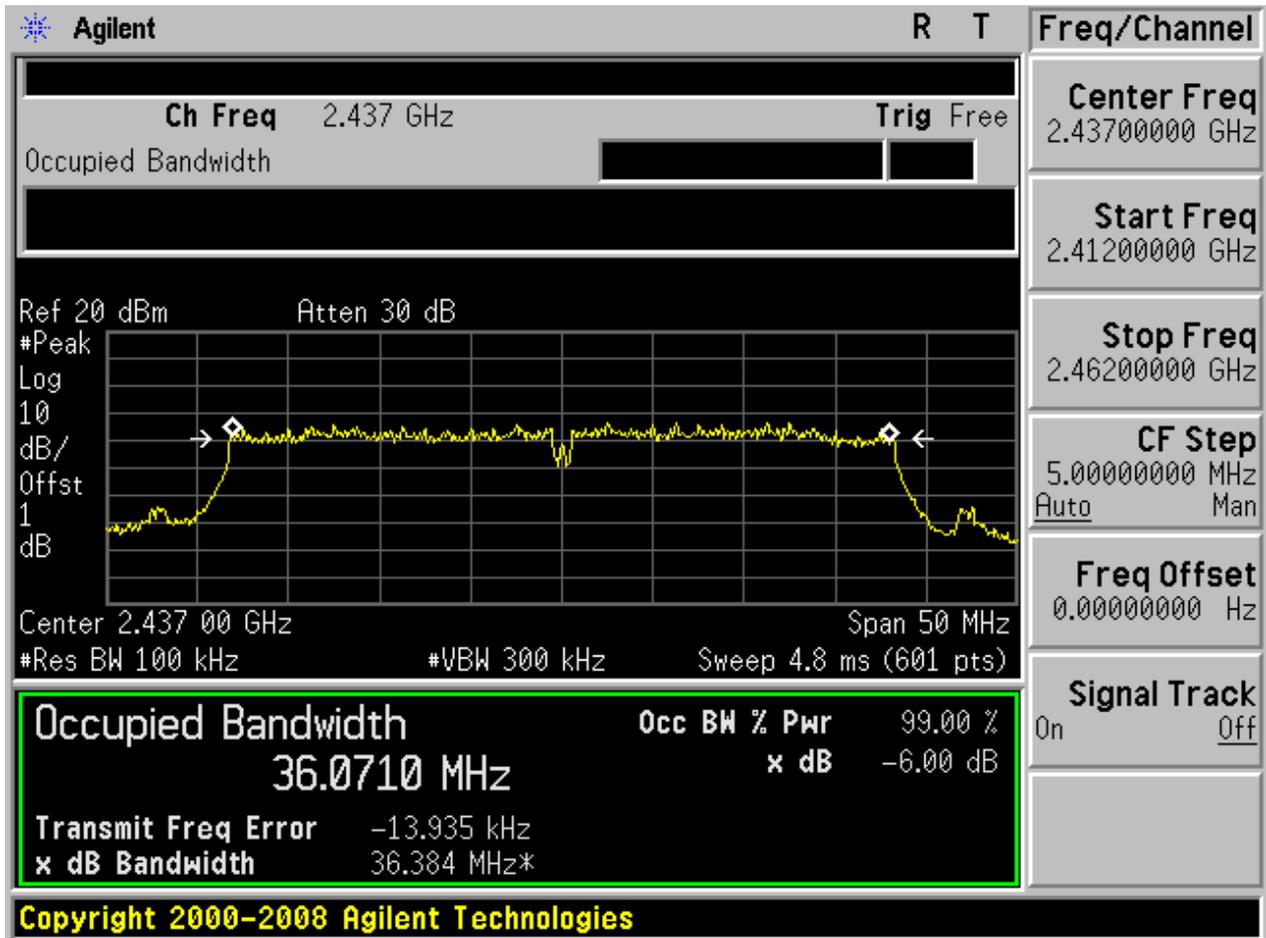
2.31 11N40m_L@Ant 1



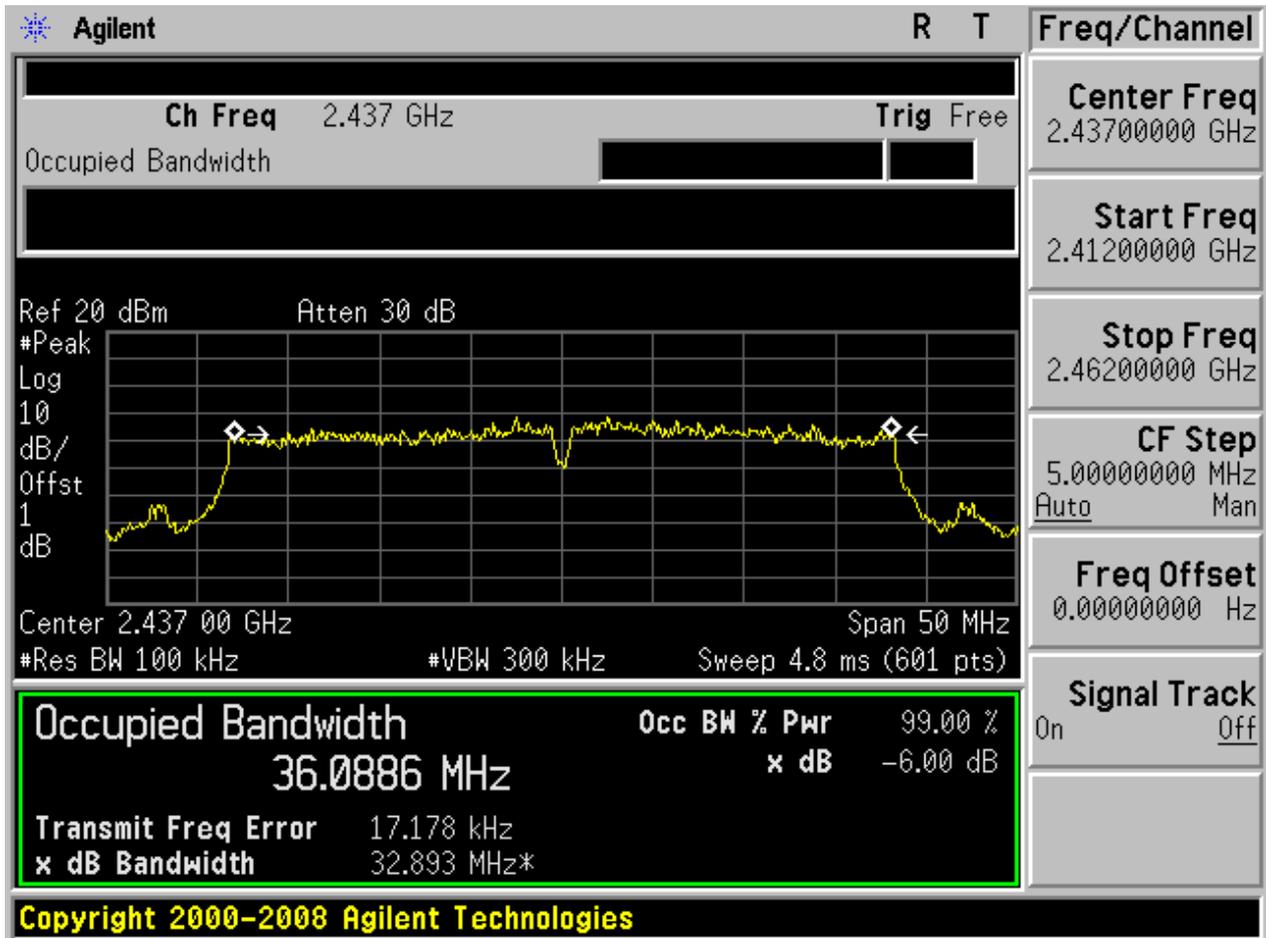
2.32 11N40m_L@Ant 2



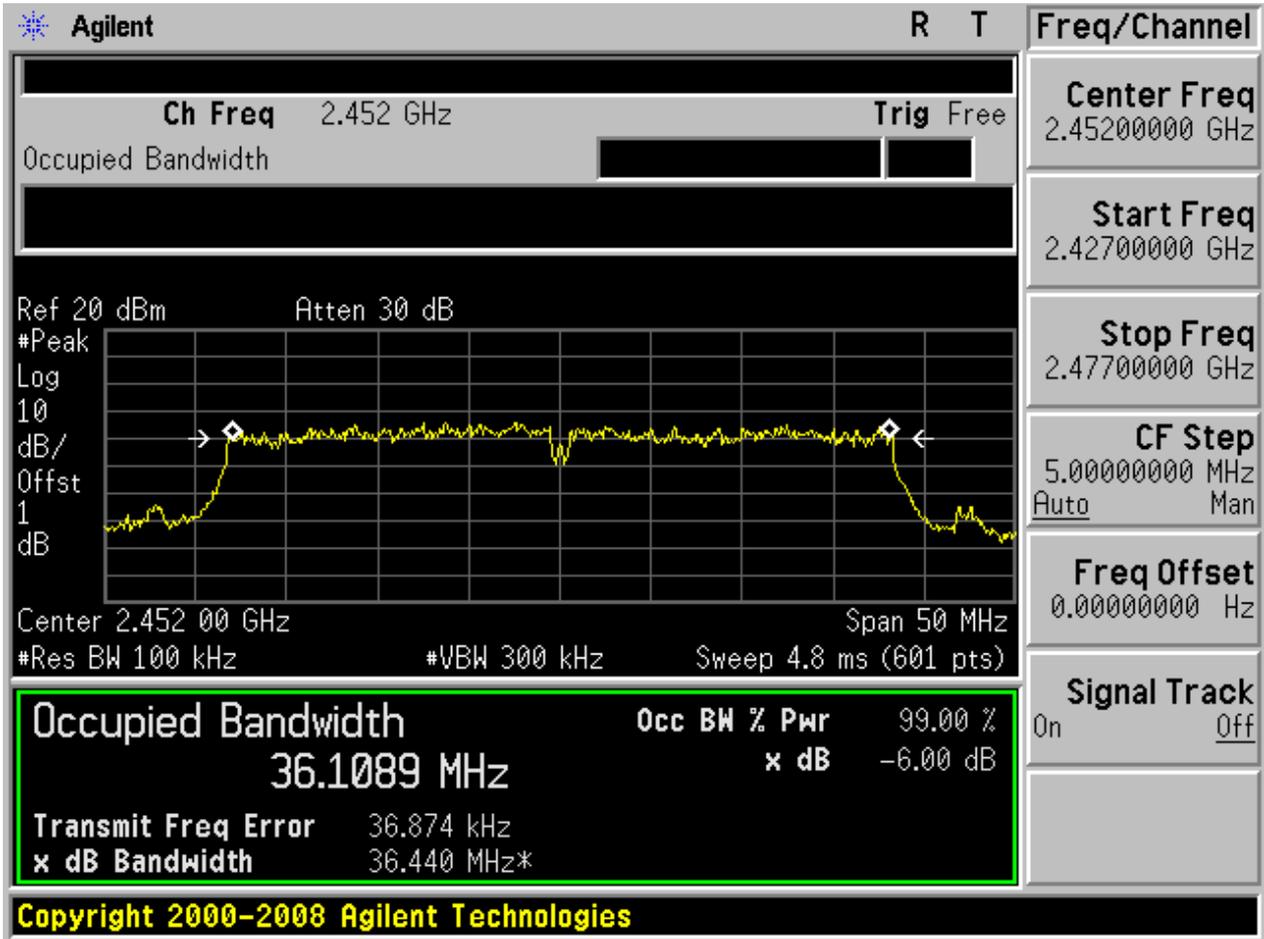
2.33 11N40m_M@Ant 1



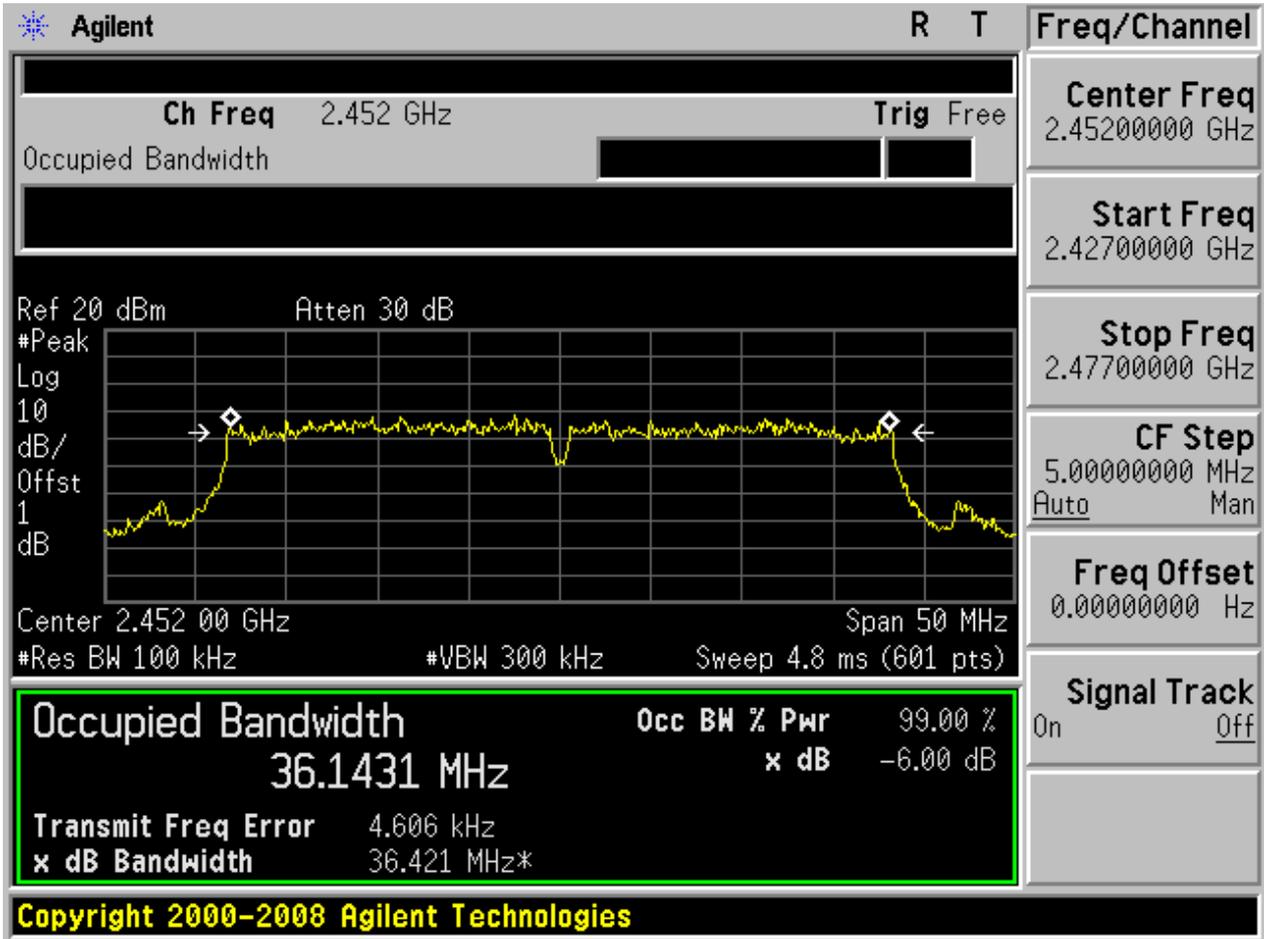
2.34 11N40m_M@Ant 2



2.35 11N40m_H@Ant 1



2.36 11N40m_H@Ant 2



Appendix B: Maximum Peak Conducted Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Meas. Level (Cond.) [dBm]	Verdict
11B	L	2412	Ant 1	18.44	pass
11B	L	2412	Ant 2	18.57	pass
11B	M	2437	Ant 1	18.71	pass
11B	M	2437	Ant 2	18.31	pass
11B	H	2462	Ant 1	17.84	pass
11B	H	2462	Ant 2	18.11	pass
11G	L	2412	Ant 1	21.55	pass
11G	L	2412	Ant 2	21.28	pass
11G	M	2437	Ant 1	20.25	pass
11G	M	2437	Ant 2	21.78	pass
11G	H	2462	Ant 1	20.35	pass
11G	H	2462	Ant 2	20.85	pass
11N20	L	2412	Ant 1	19.21	pass
11N20	L	2412	Ant 2	18.13	pass
11N20	M	2437	Ant 1	18.81	pass
11N20	M	2437	Ant 2	19.68	pass
11N20	H	2462	Ant 1	17.95	pass
11N20	H	2462	Ant 2	17.62	pass
11N20m	L	2412	Ant 1	18.42	pass
11N20m	L	2412	Ant 2	18.36	pass
11N20m	L	2412	Sum	21.40	pass
11N20m	M	2437	Ant 1	18.71	pass
11N20m	M	2437	Ant 2	18.39	pass
11N20m	M	2437	Sum	21.56	pass
11N20m	H	2462	Ant 1	17.17	pass
11N20m	H	2462	Ant 2	18.89	pass
11N20m	H	2462	Sum	21.12	pass
11N40	L	2422	Ant 1	17.35	pass
11N40	L	2422	Ant 2	17.14	pass
11N40	M	2437	Ant 1	18.18	pass
11N40	M	2437	Ant 2	17.58	pass
11N40	H	2452	Ant 1	16.52	pass
11N40	H	2452	Ant 2	17.61	pass
11N40m	L	2422	Ant 1	17.82	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Meas. Level (Cond.) [dBm]	Verdict
11N40m	L	2422	Ant 2	17.78	pass
11N40m	L	2422	Sum	20.81	pass
11N40m	M	2437	Ant 1	18.71	pass
11N40m	M	2437	Ant 2	18.61	pass
11N40m	M	2437	Sum	21.67	pass
11N40m	H	2452	Ant 1	17.95	pass
11N40m	H	2452	Ant 2	19.35	pass
11N40m	H	2452	Sum	21.72	pass



Appendix C: Maximum Power Spectral Density Level

Part I - Test Results

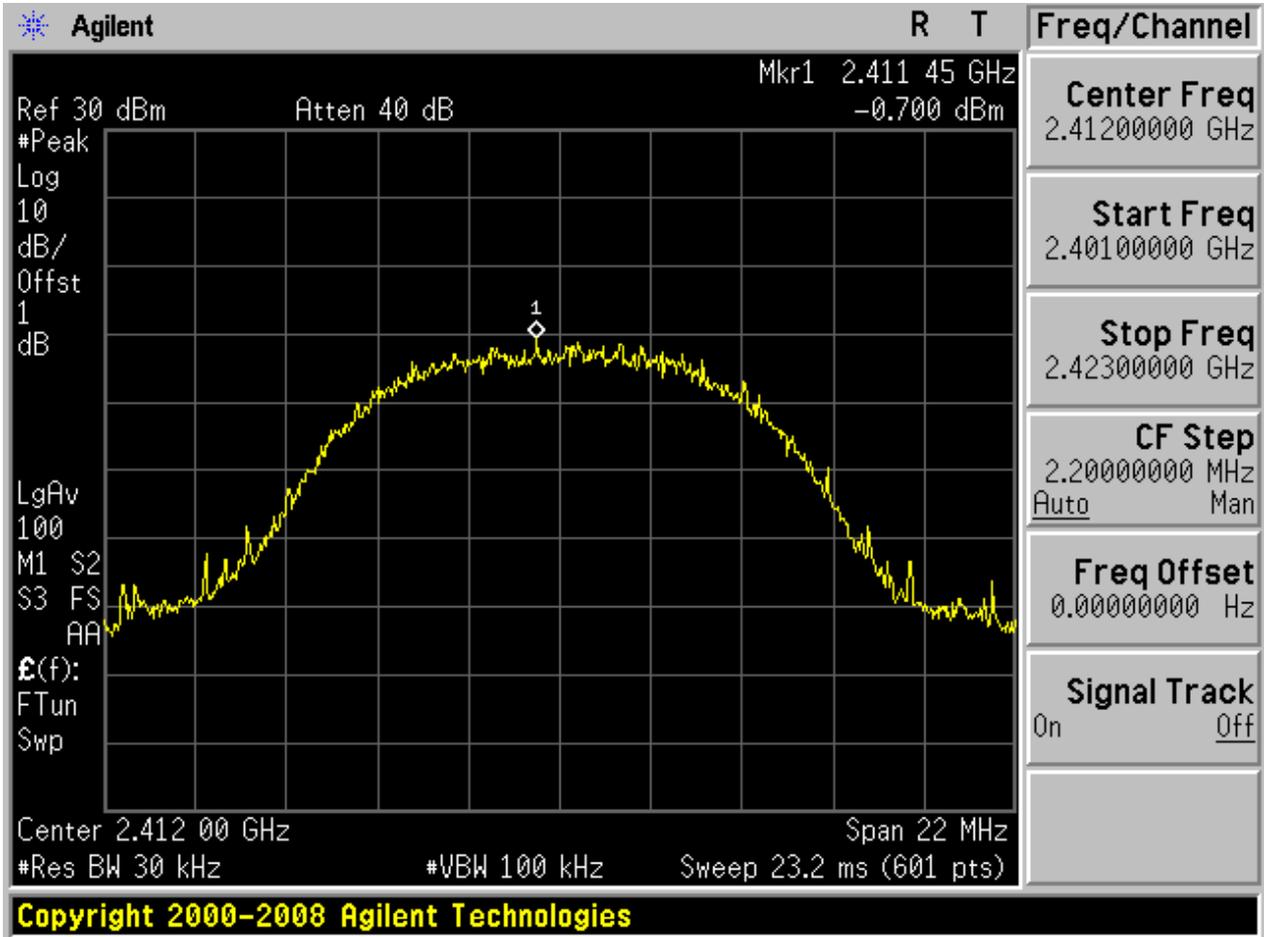
Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2412	Ant 1	-0.70	pass
11B	L	2412	Ant 2	-0.39	pass
11B	M	2437	Ant 1	-0.83	pass
11B	M	2437	Ant 2	-0.67	pass
11B	H	2462	Ant 1	-2.11	pass
11B	H	2462	Ant 2	-0.56	pass
11G	L	2412	Ant 1	-4.51	pass
11G	L	2412	Ant 2	-3.45	pass
11G	M	2437	Ant 1	-5.07	pass
11G	M	2437	Ant 2	-2.79	pass
11G	H	2462	Ant 1	-4.54	pass
11G	H	2462	Ant 2	-3.41	pass
11N20	L	2412	Ant 1	-7.06	pass
11N20	L	2412	Ant 2	-5.82	pass
11N20	M	2437	Ant 1	-6.51	pass
11N20	M	2437	Ant 2	-6.25	pass
11N20	H	2462	Ant 1	-6.52	pass
11N20	H	2462	Ant 2	-6.89	pass
11N20m	L	2412	Ant 1	-6.98	pass
11N20m	L	2412	Ant 2	-6.49	pass
11N20m	M	2437	Ant 1	-7.35	pass
11N20m	M	2437	Ant 2	-4.79	pass
11N20m	H	2462	Ant 1	-8.29	pass
11N20m	H	2462	Ant 2	-6.15	pass
11N40	L	2422	Ant 1	-8.65	pass
11N40	L	2422	Ant 2	-9.66	pass
11N40	M	2437	Ant 1	-10.39	pass
11N40	M	2437	Ant 2	-9.10	pass
11N40	H	2452	Ant 1	-9.70	pass
11N40	H	2452	Ant 2	-9.32	pass
11N40m	L	2422	Ant 1	-9.62	pass
11N40m	L	2422	Ant 2	-9.45	pass
11N40m	M	2437	Ant 1	-10.43	pass
11N40m	M	2437	Ant 2	-8.40	pass
11N40m	H	2452	Ant 1	-10.34	pass



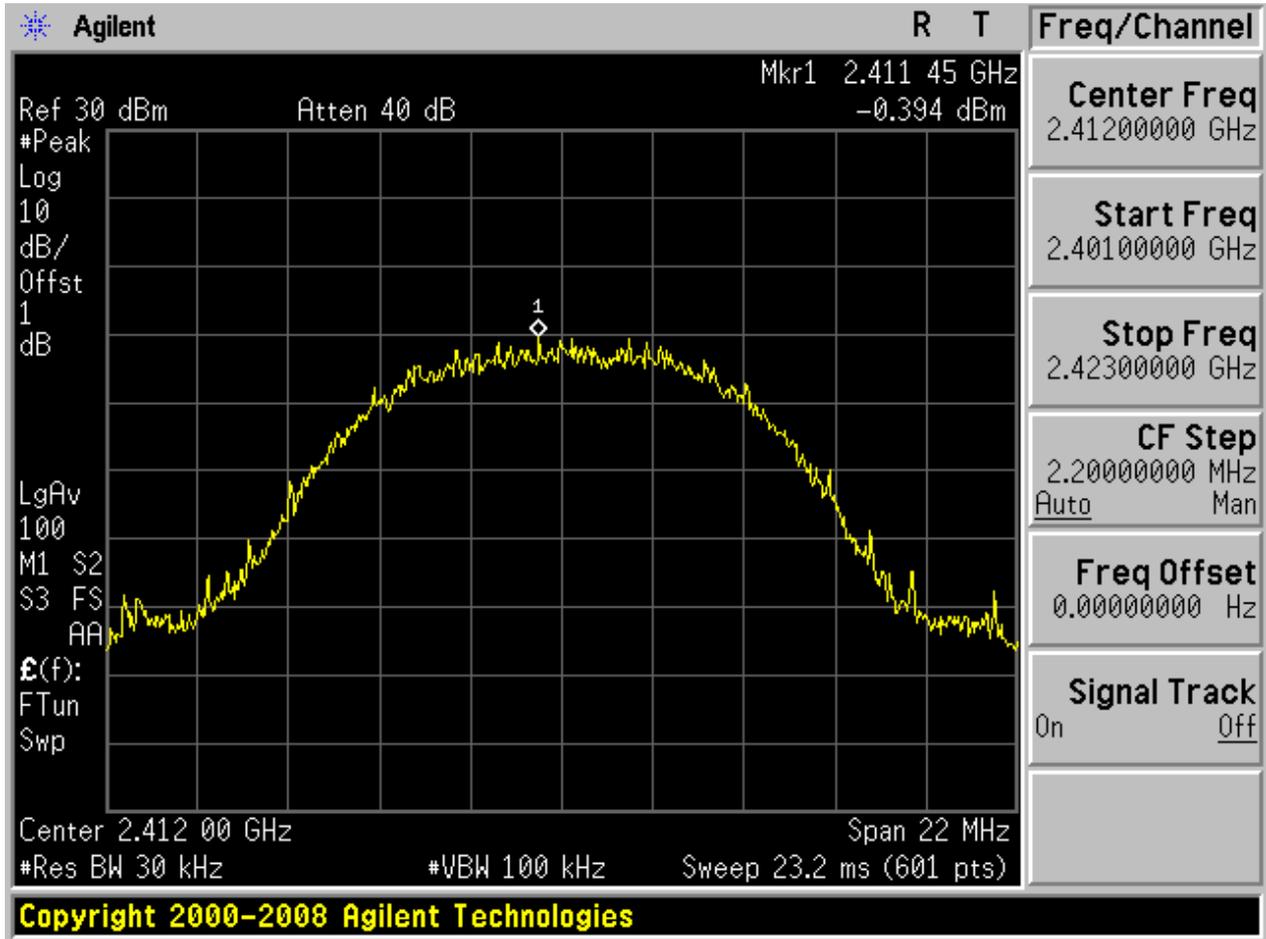
Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11N40m	H	2452	Ant 2	-8.59	pass

Part II - Test Plots

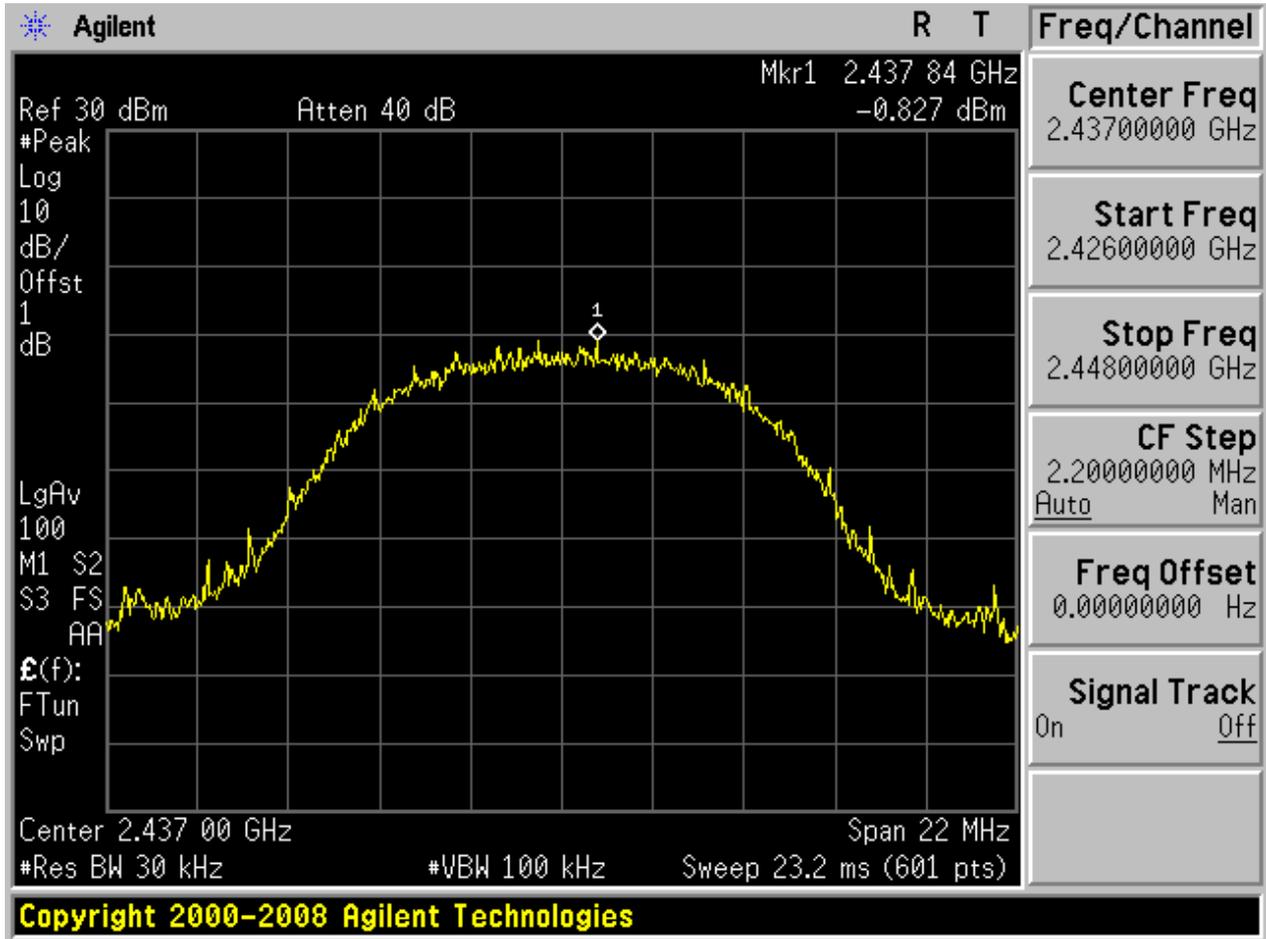
2.1 11B_L@Ant 1



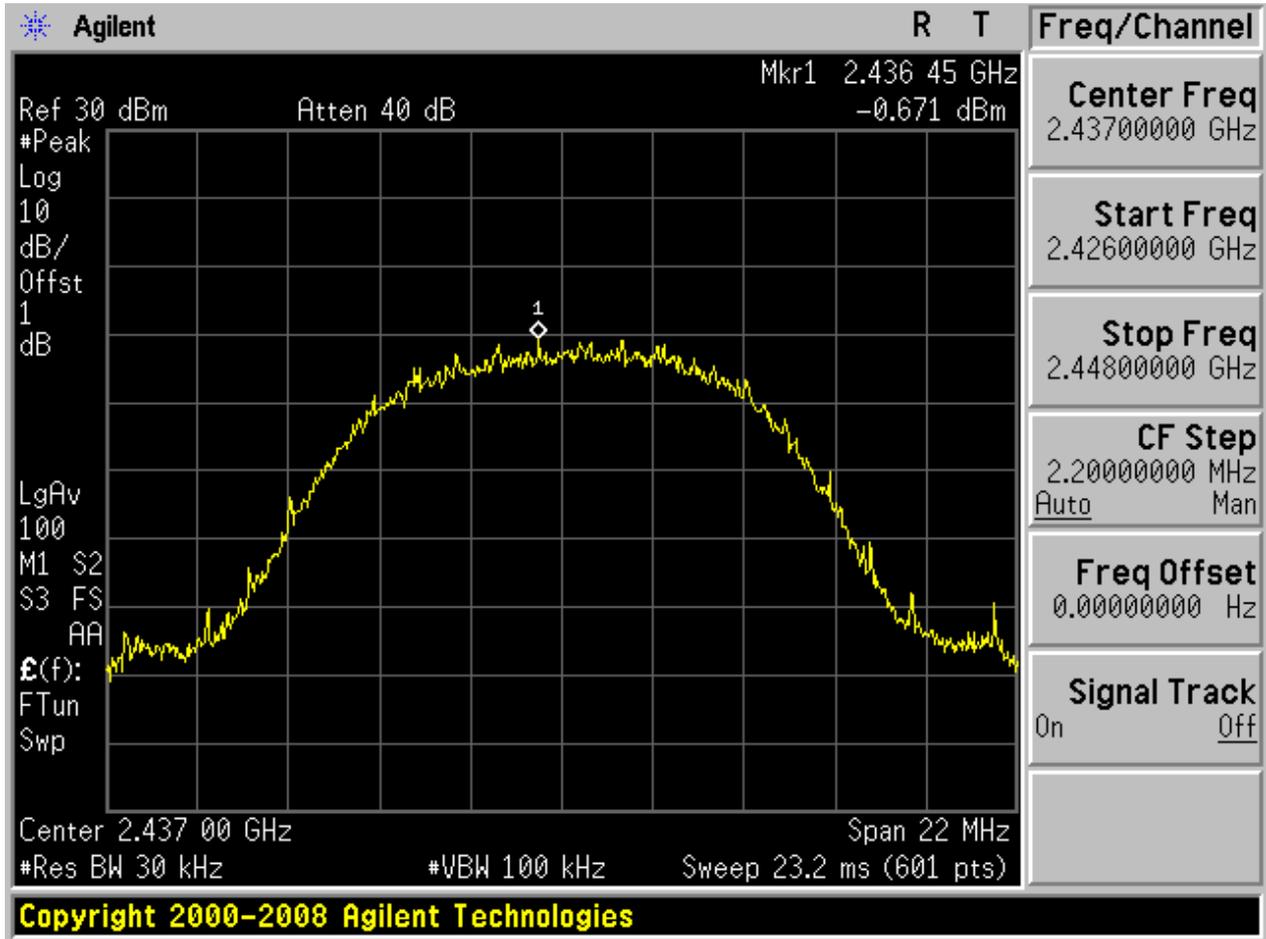
2.2 11B_L@Ant 2



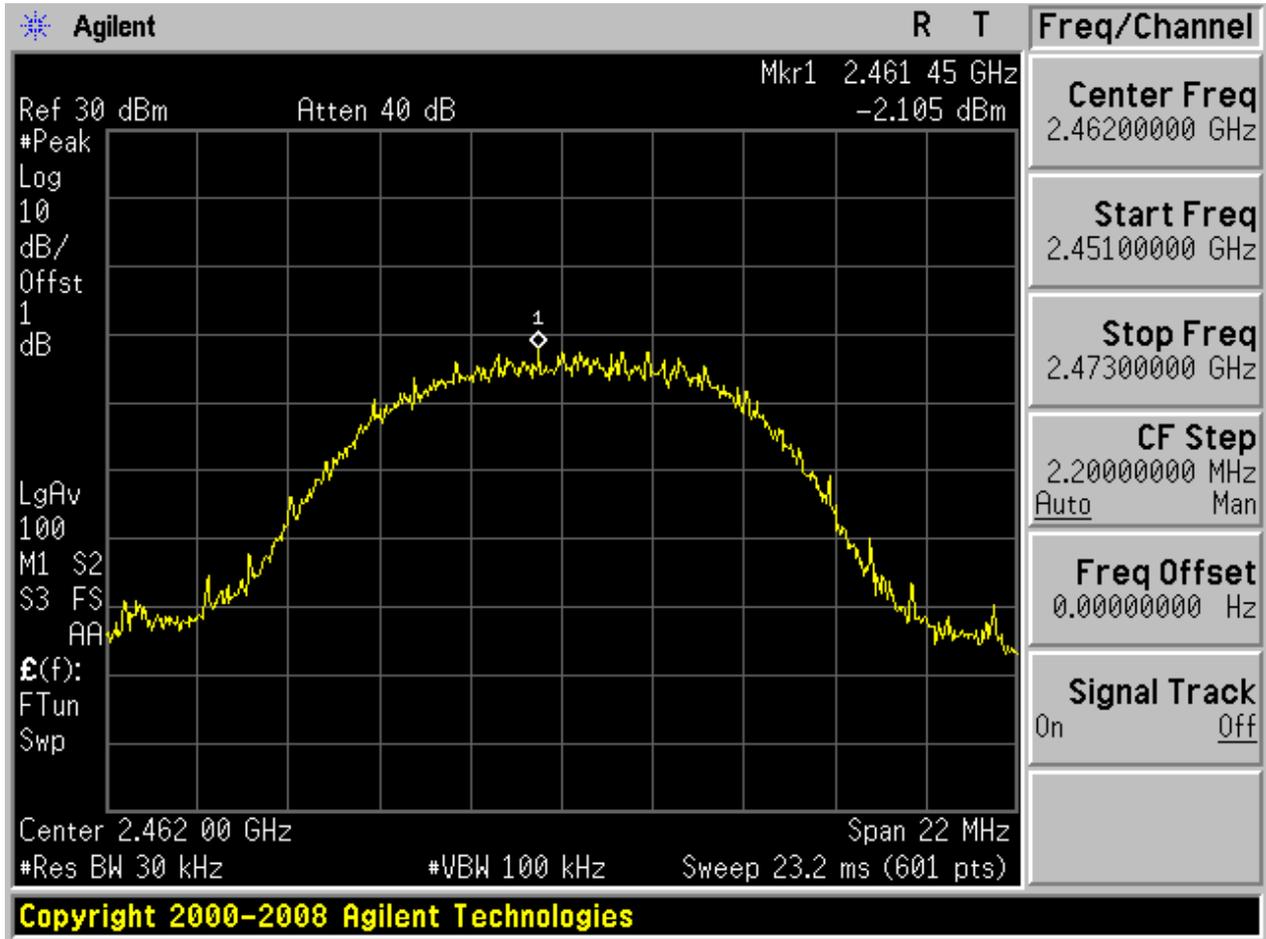
2.3 11B_M@Ant 1



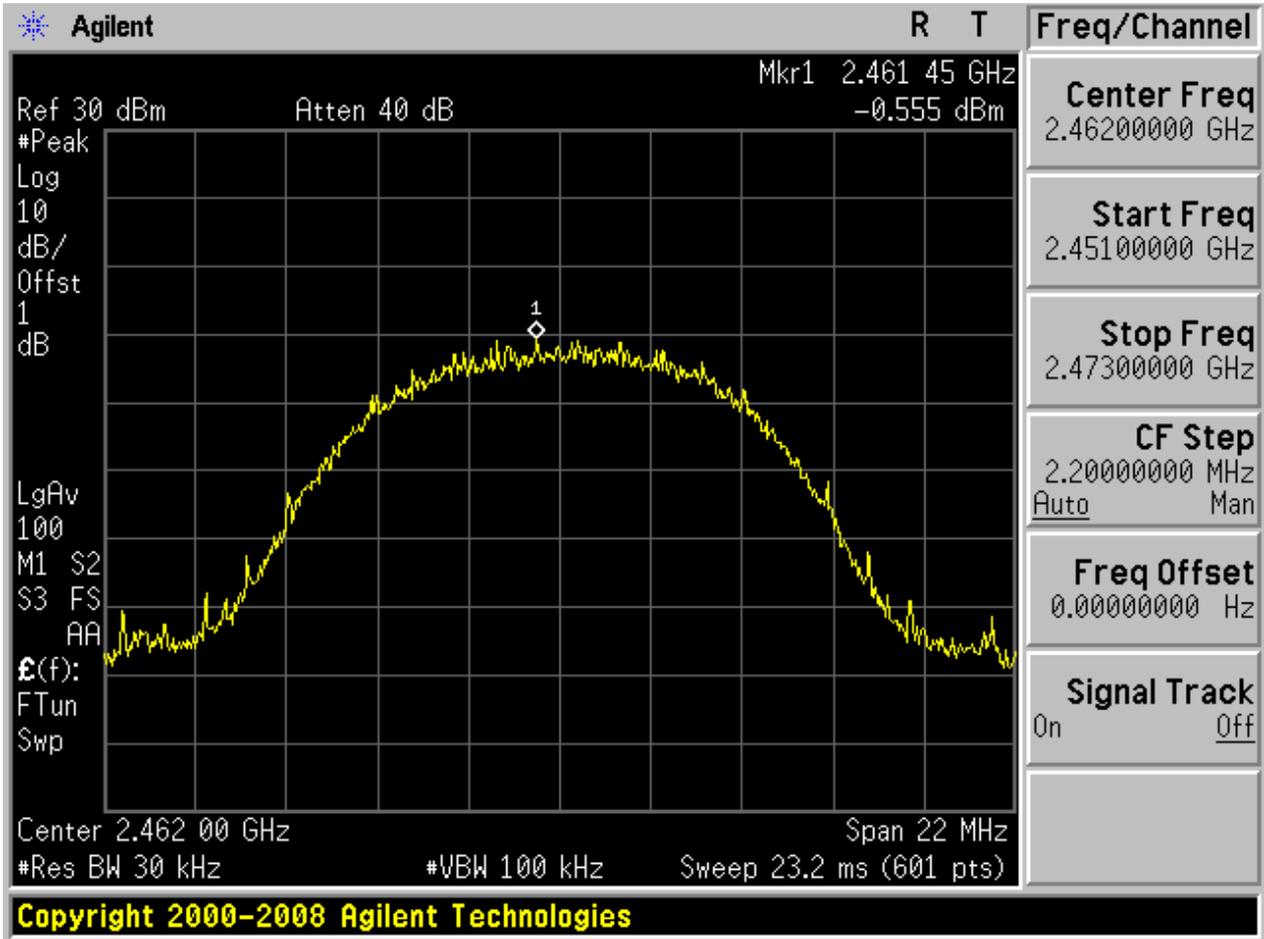
2.4 11B_M@Ant 2



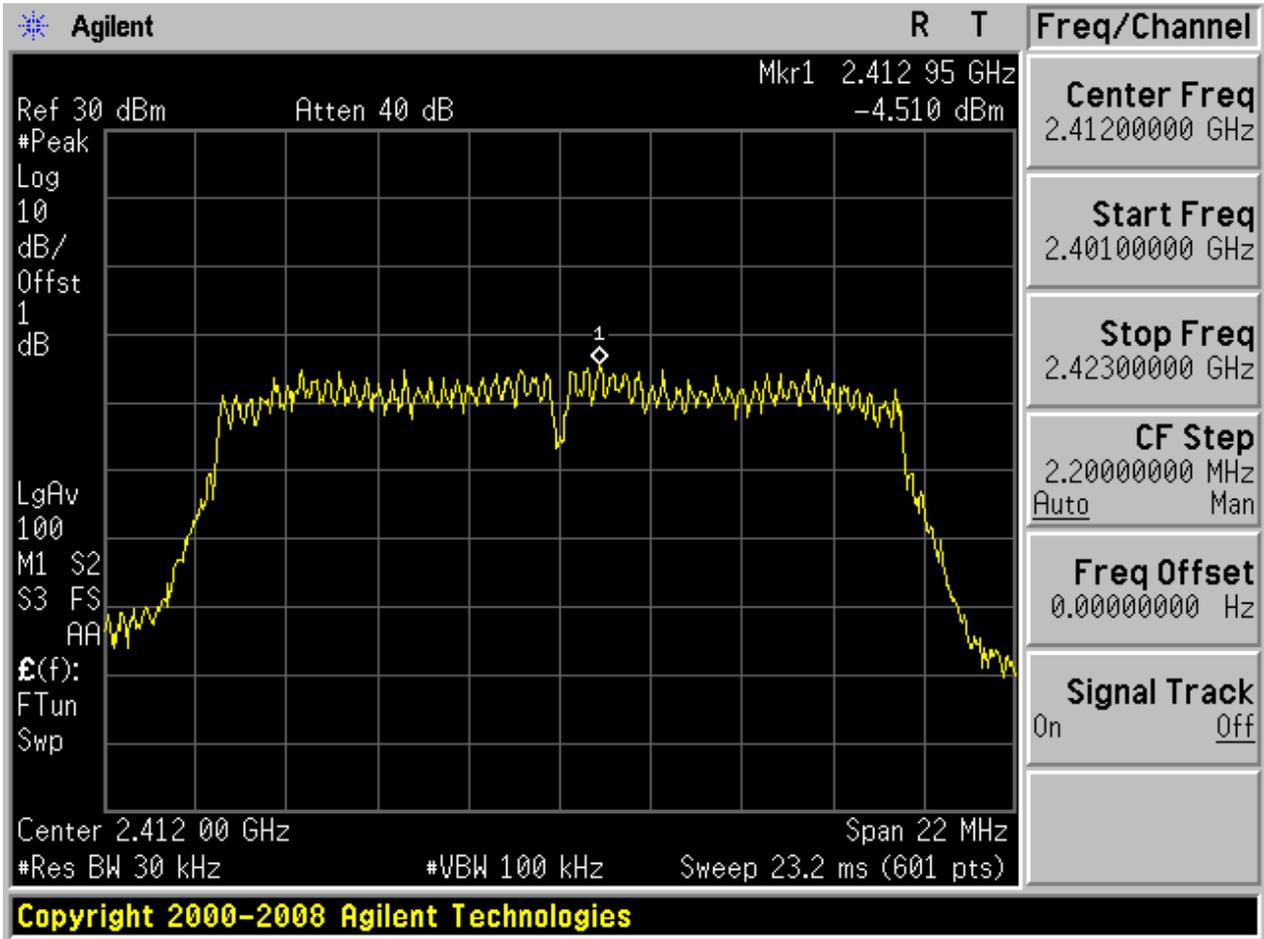
2.5 11B_H@Ant 1



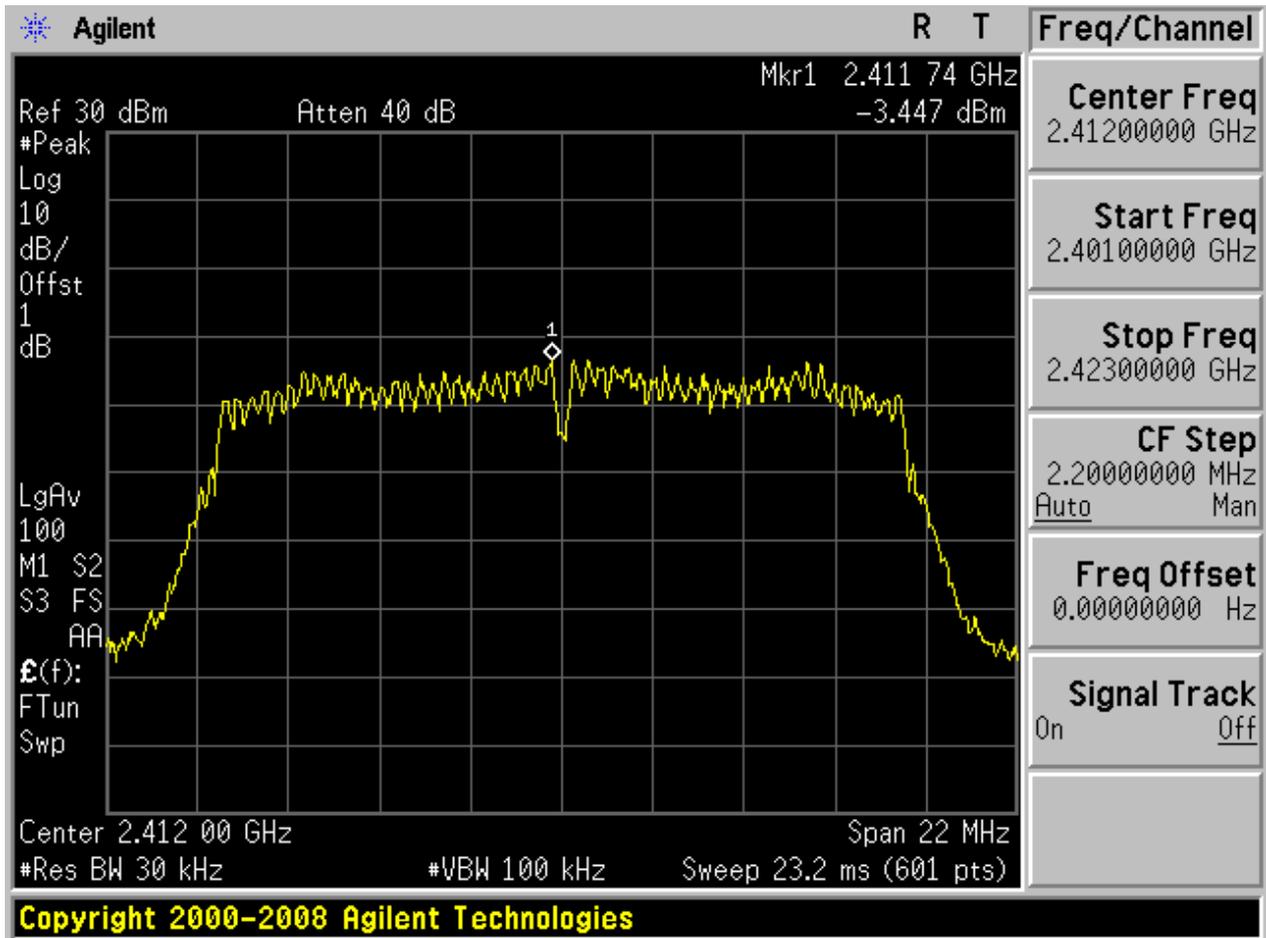
2.6 11B_H@Ant 2



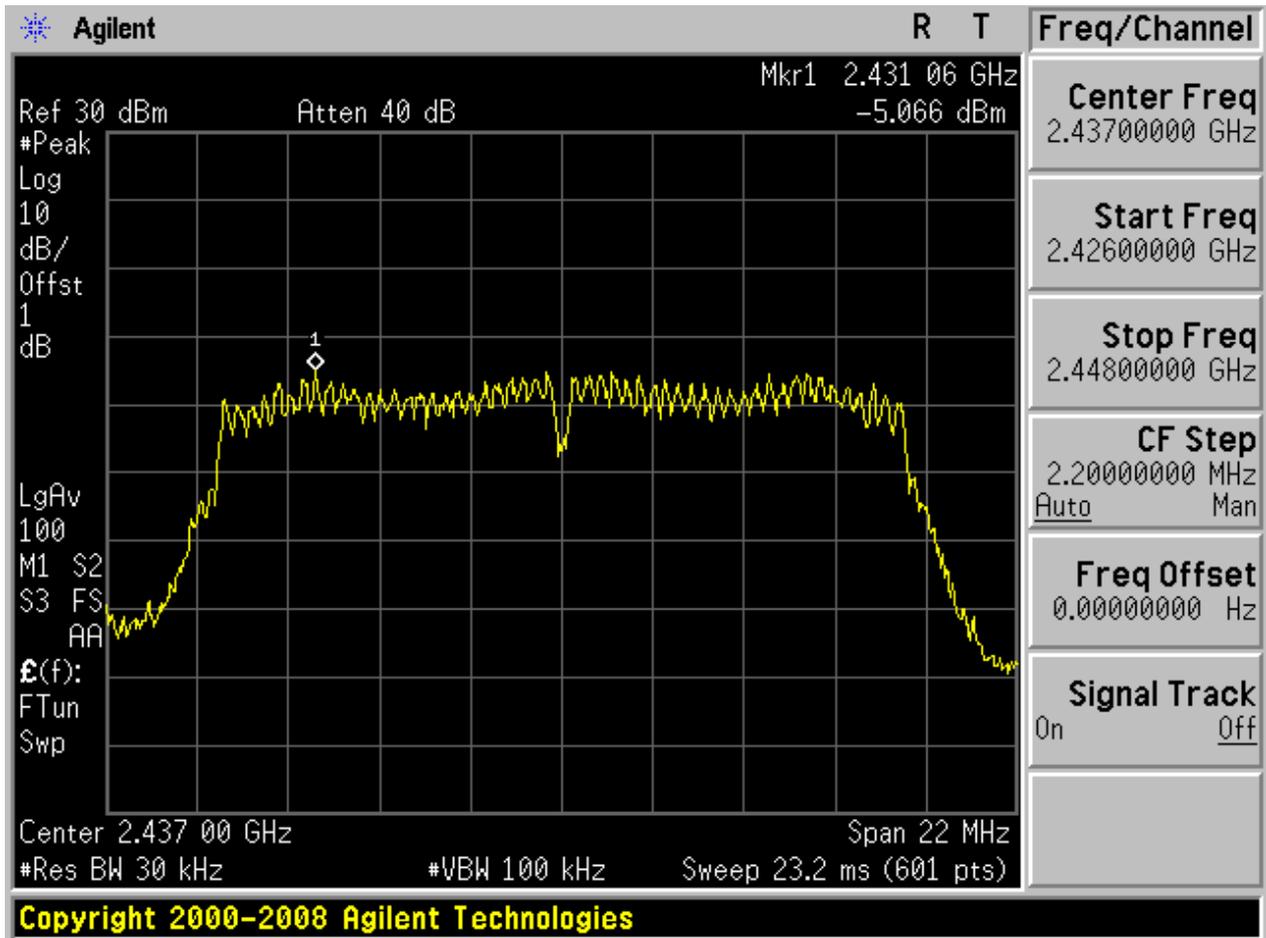
2.7 11G_L@Ant 1



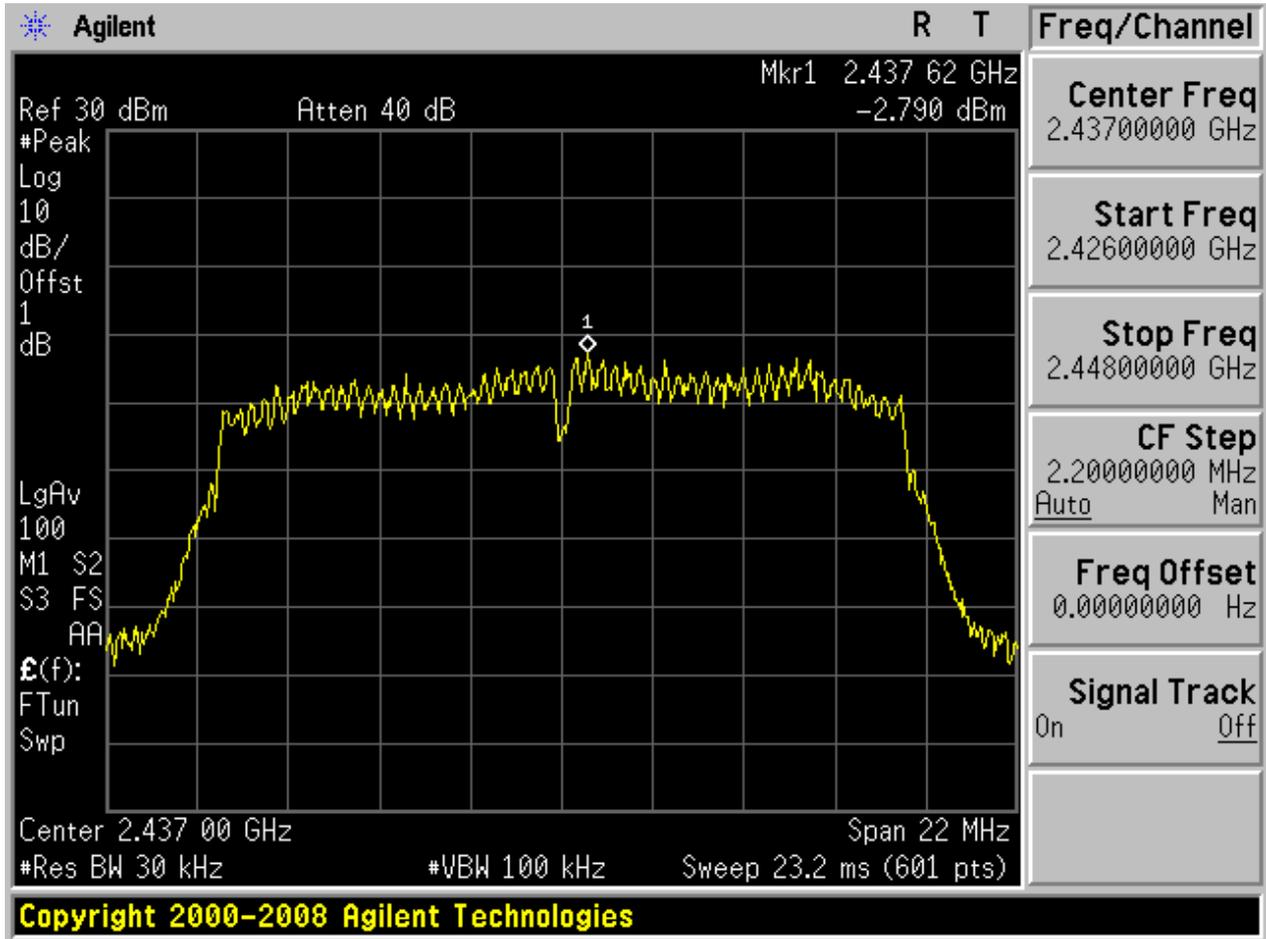
2.8 11G_L@Ant 2



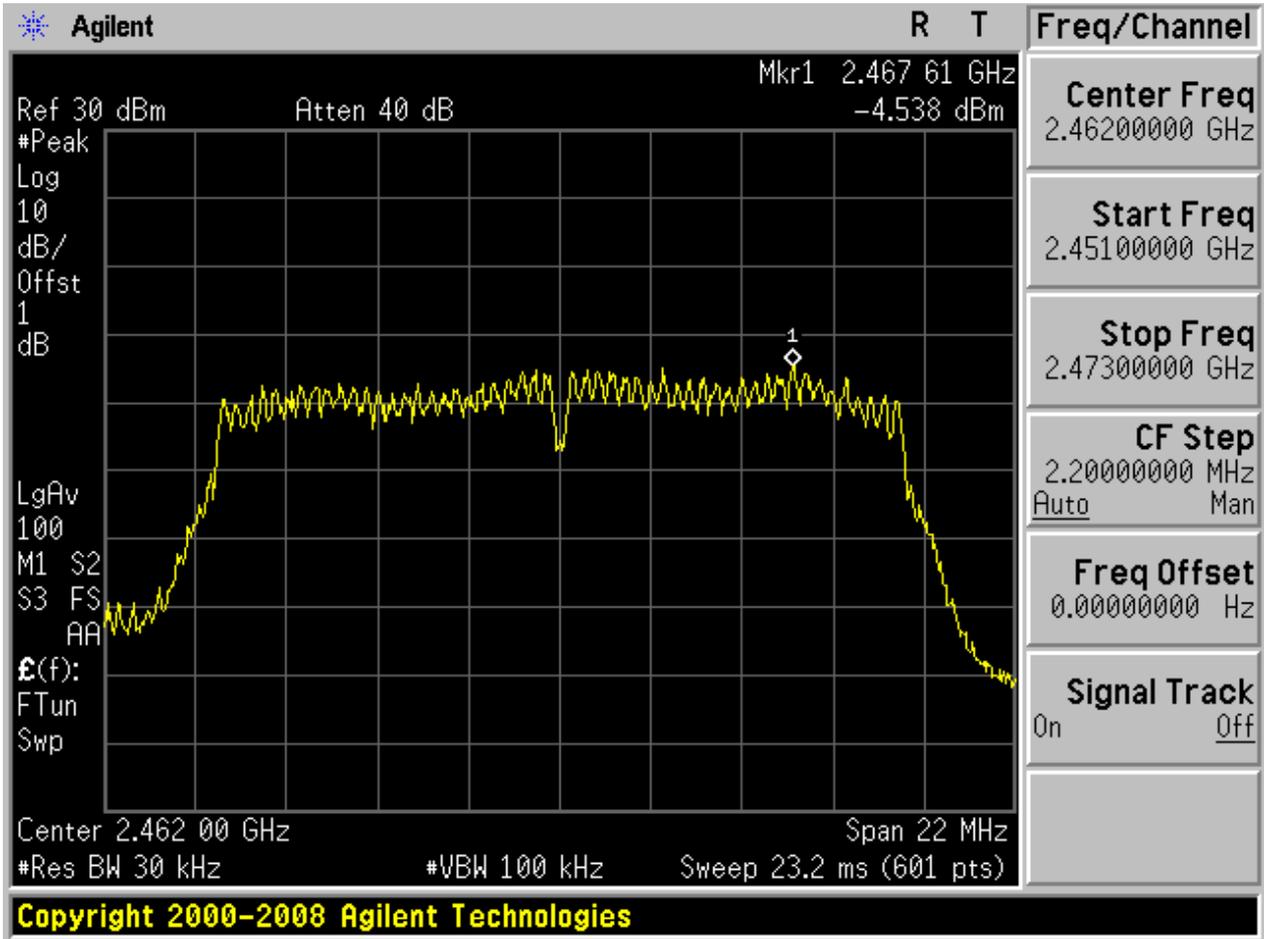
2.9 11G_M@Ant 1



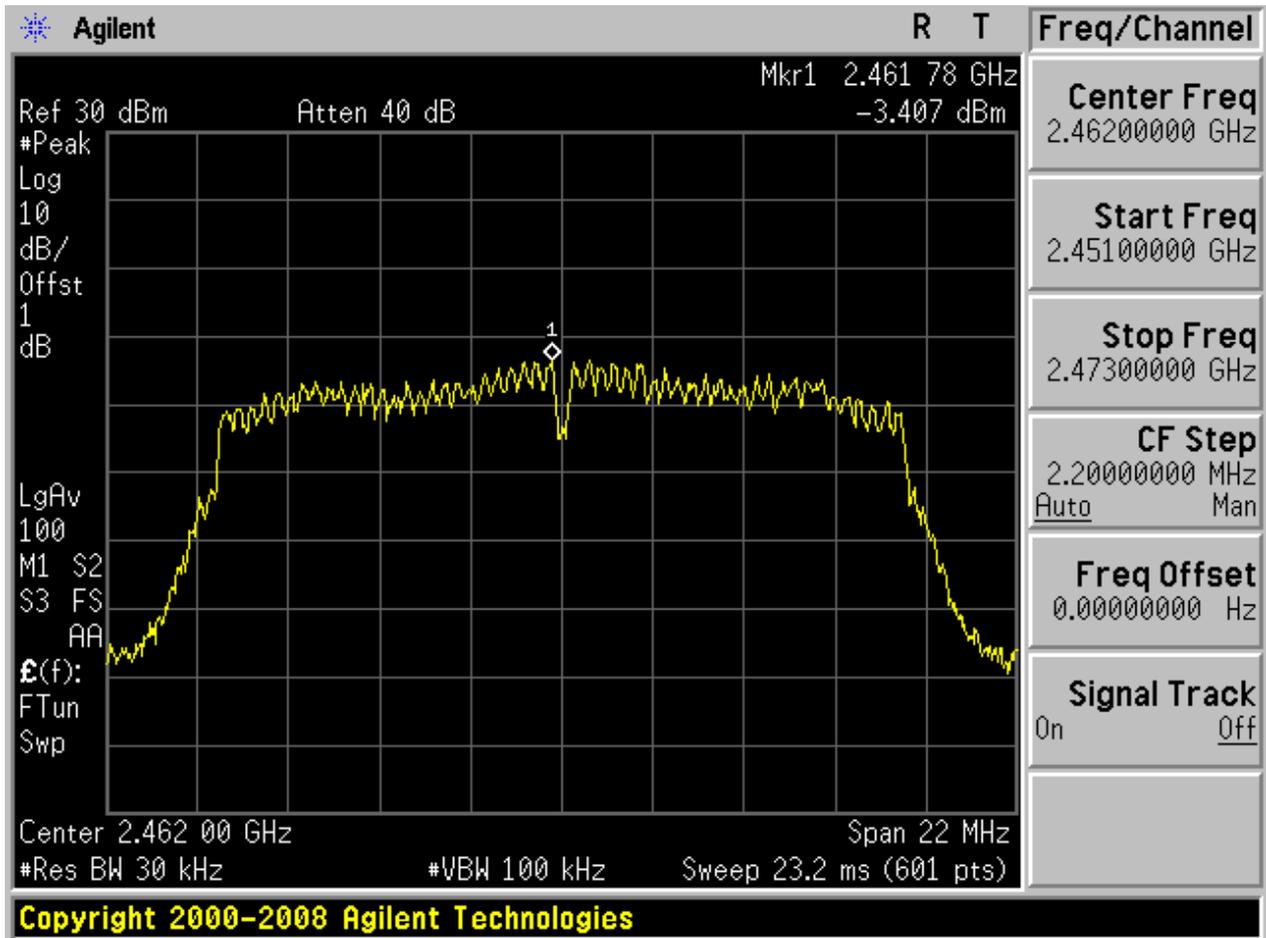
2.10 11G_M@Ant 2



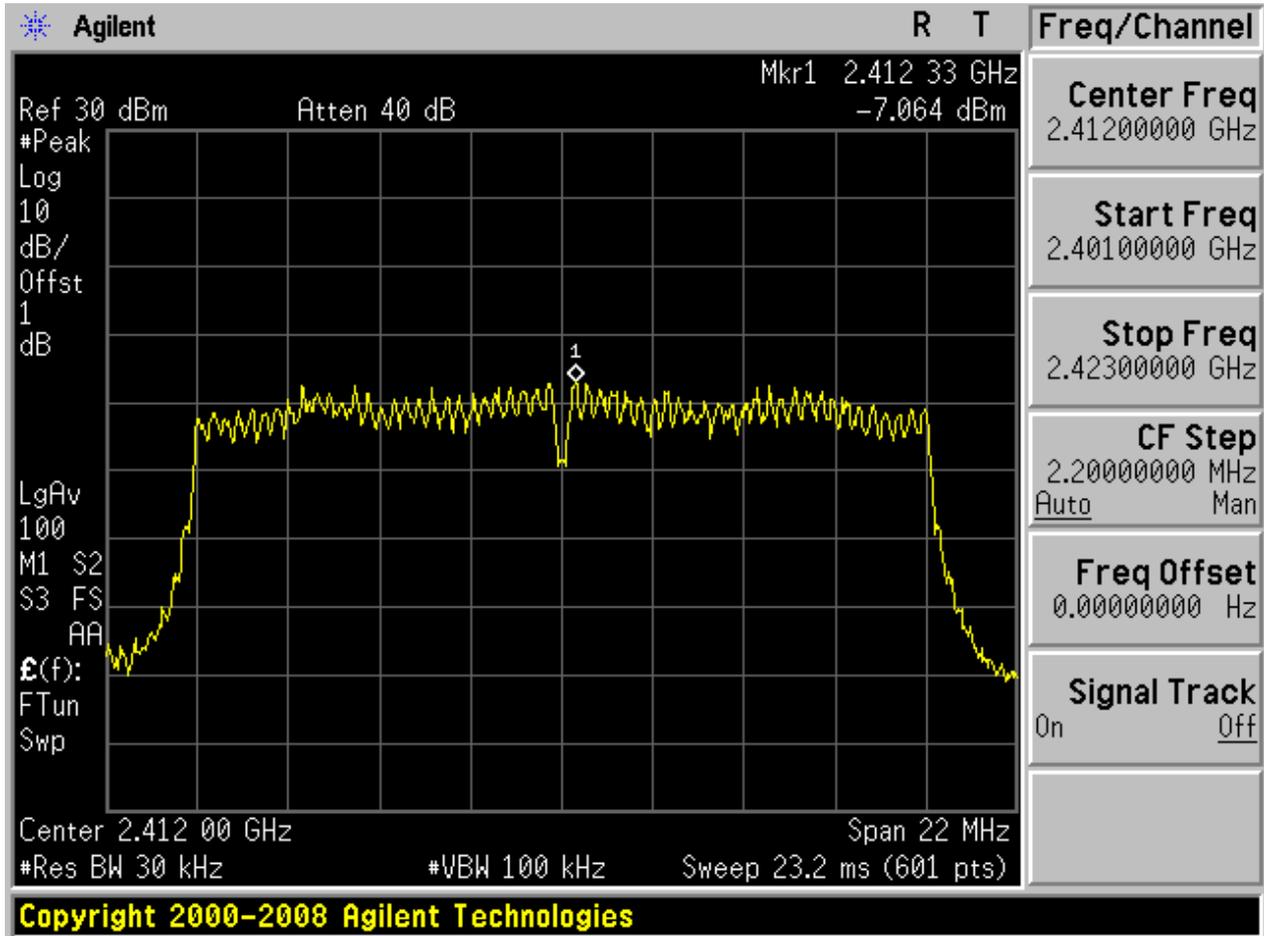
2.11 11G_H@Ant 1



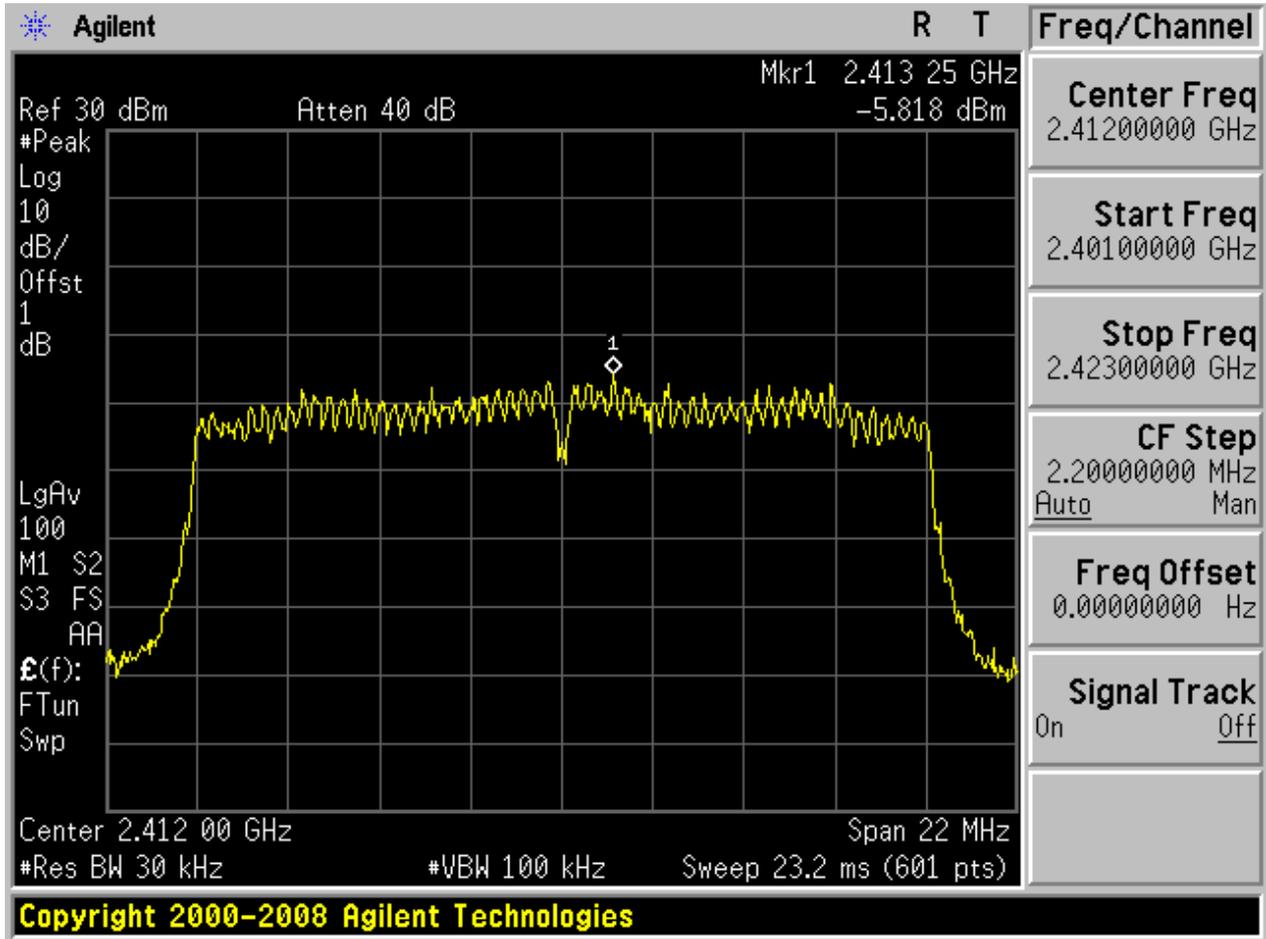
2.12 11G_H@Ant 2



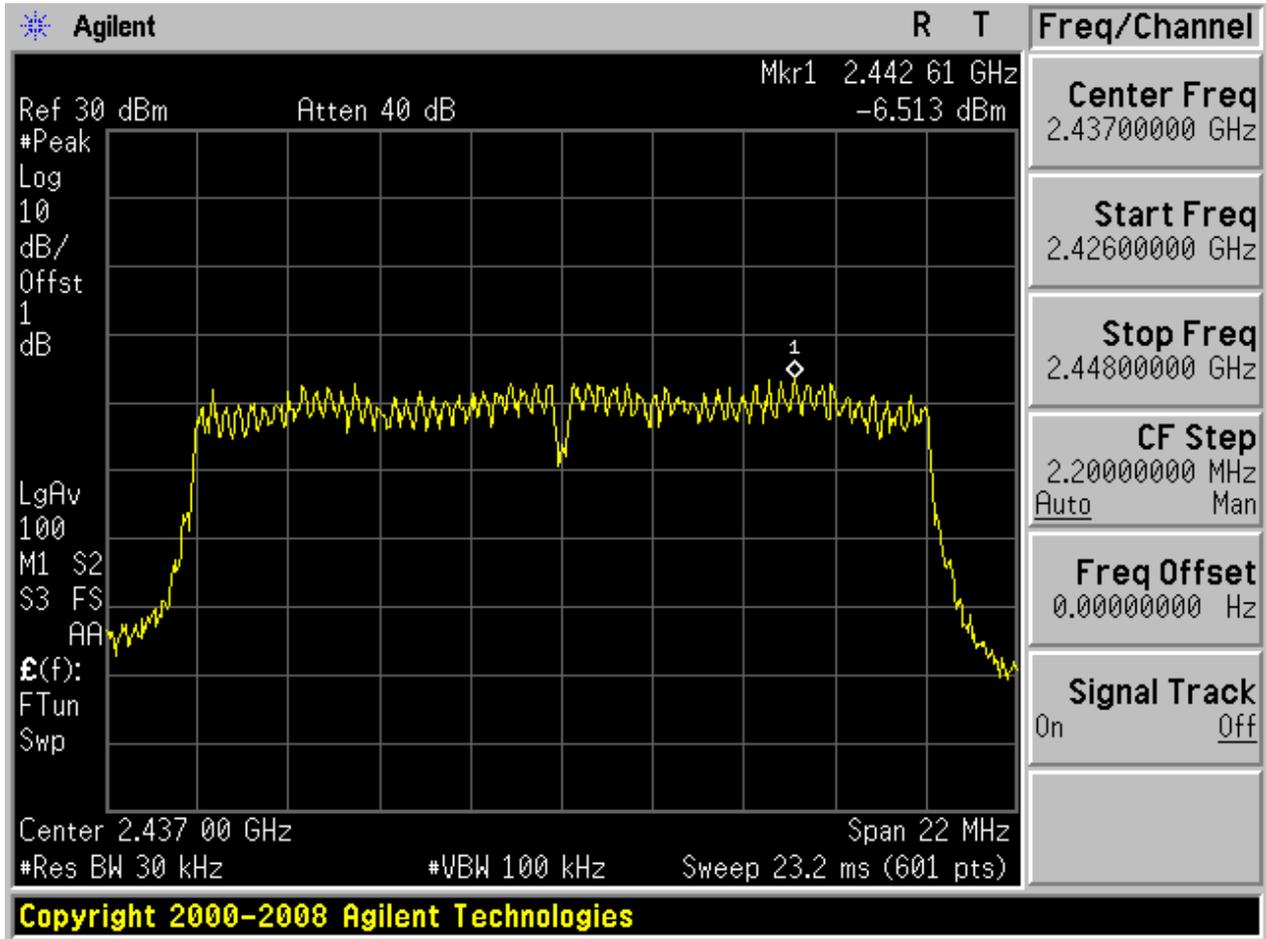
2.13 11N20_L@Ant 1



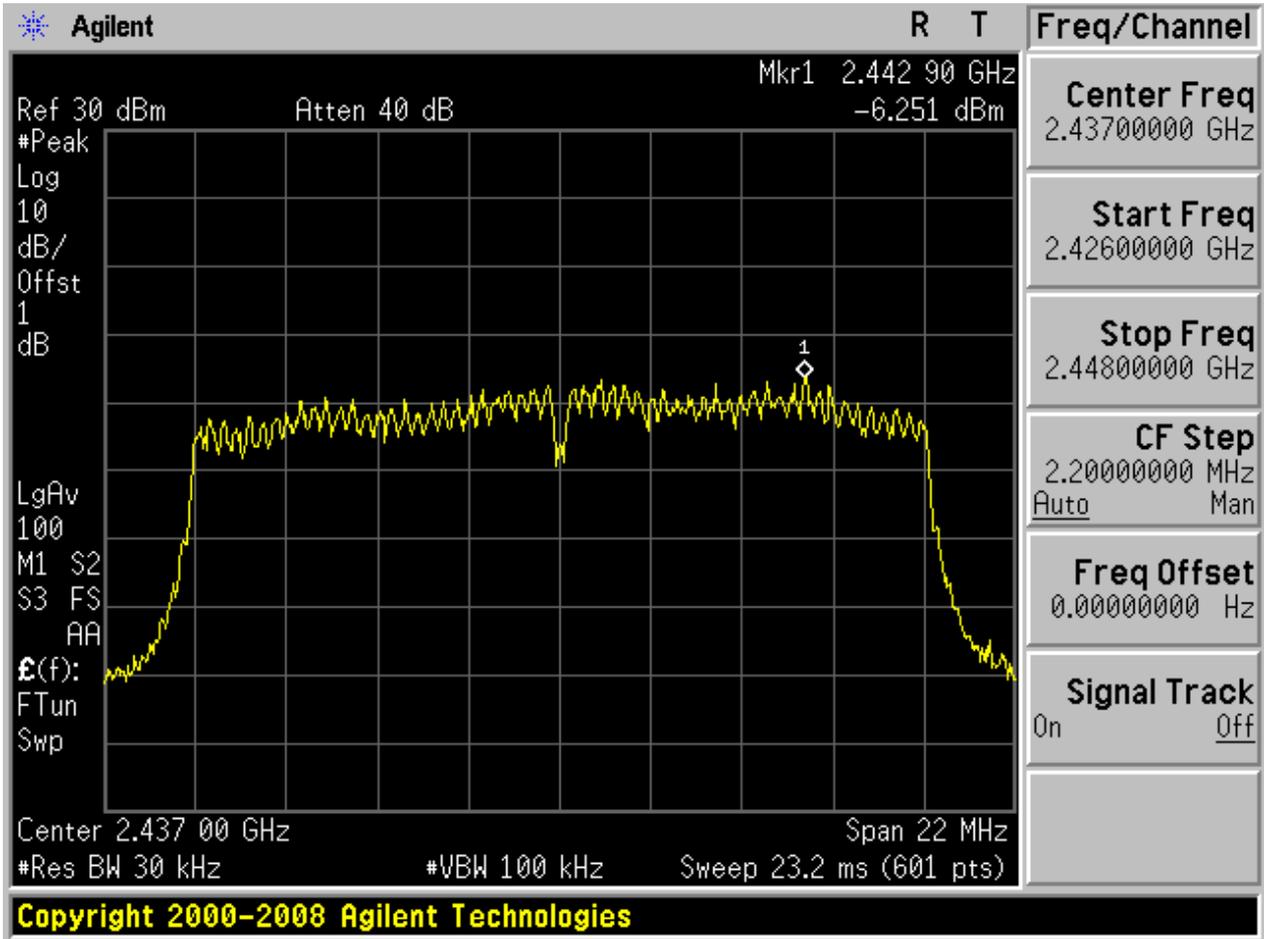
2.14 11N20_L@Ant 2



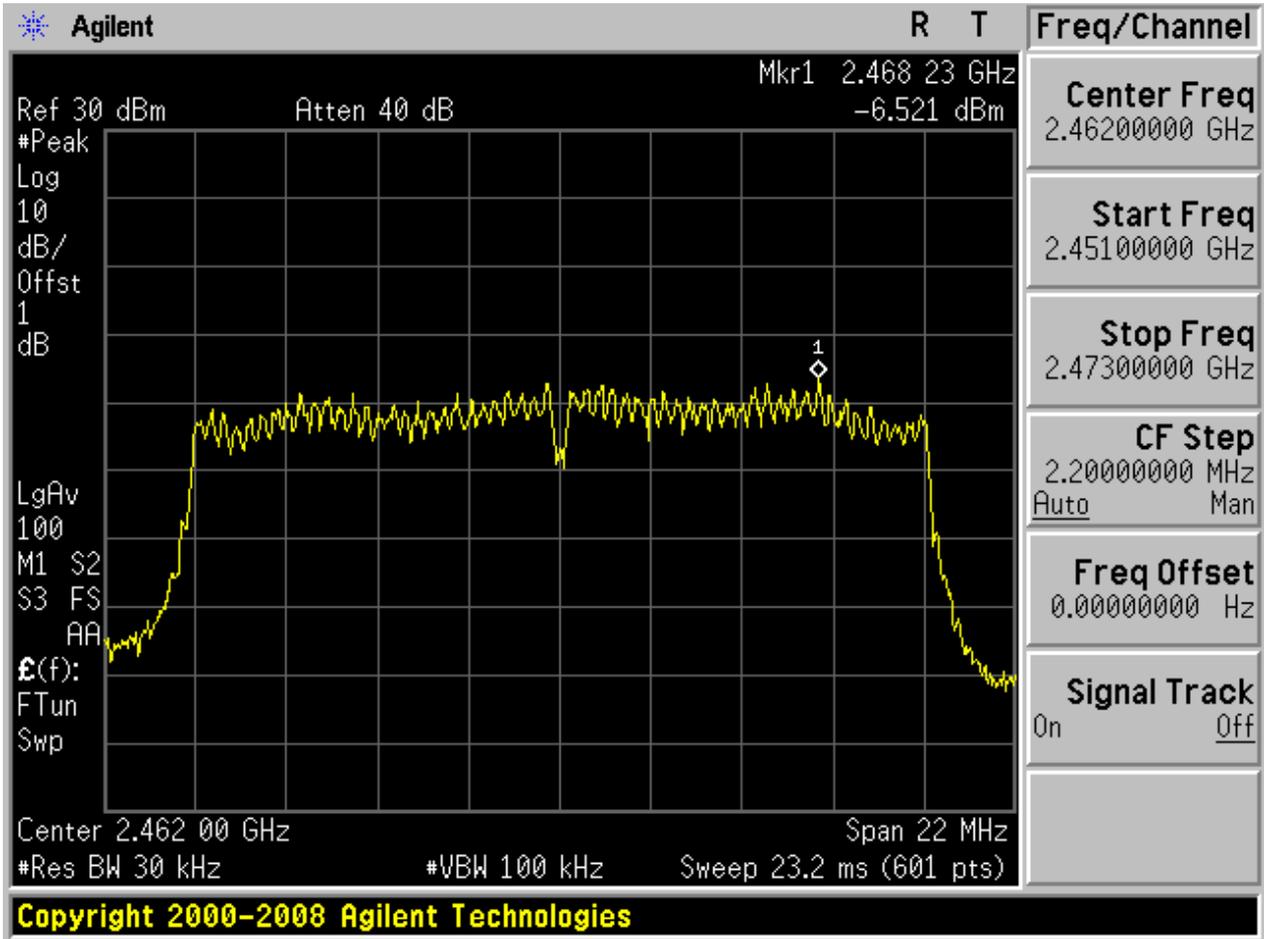
2.15 11N20_M@Ant 1



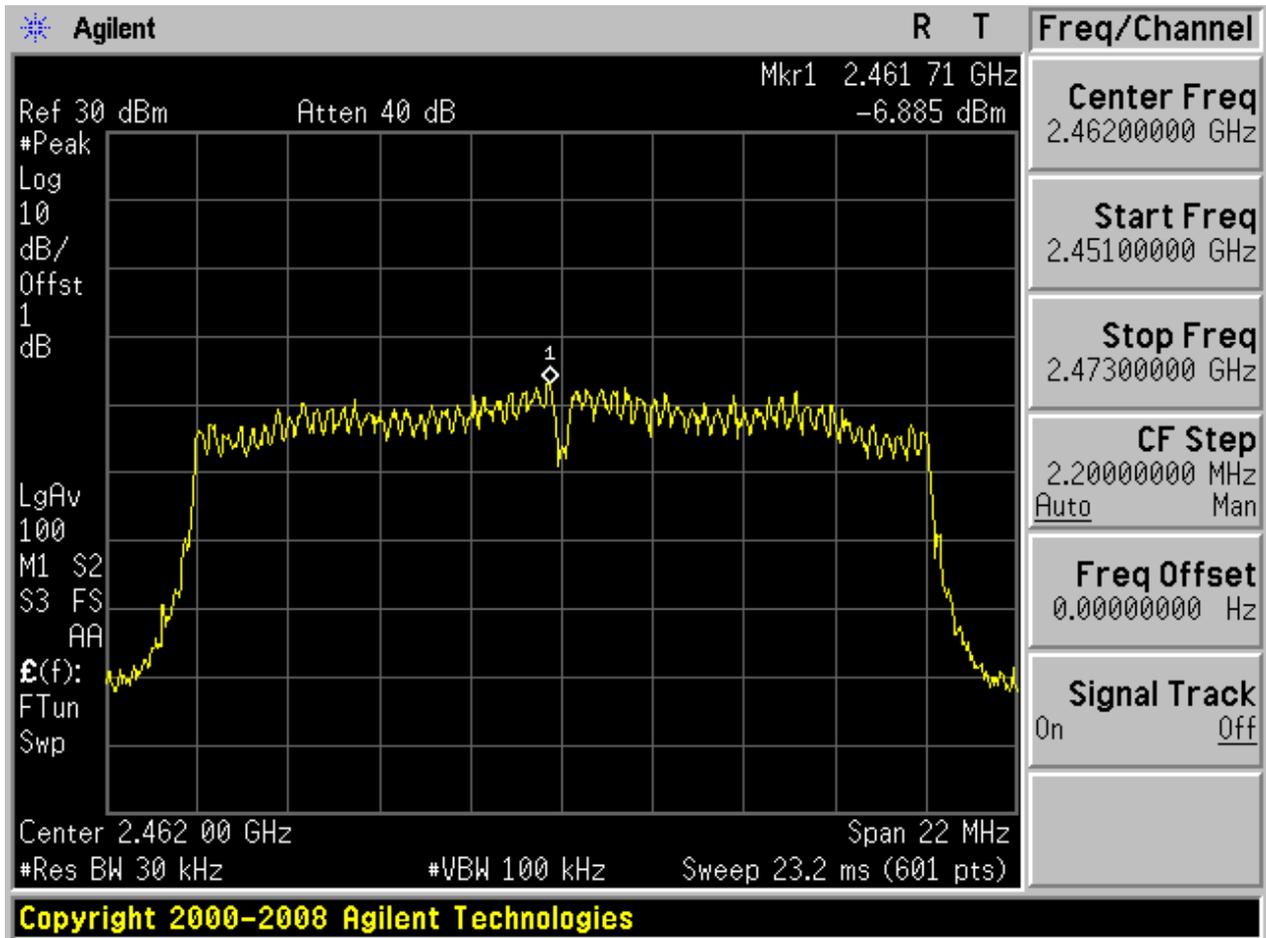
2.16 11N20_M@Ant 2



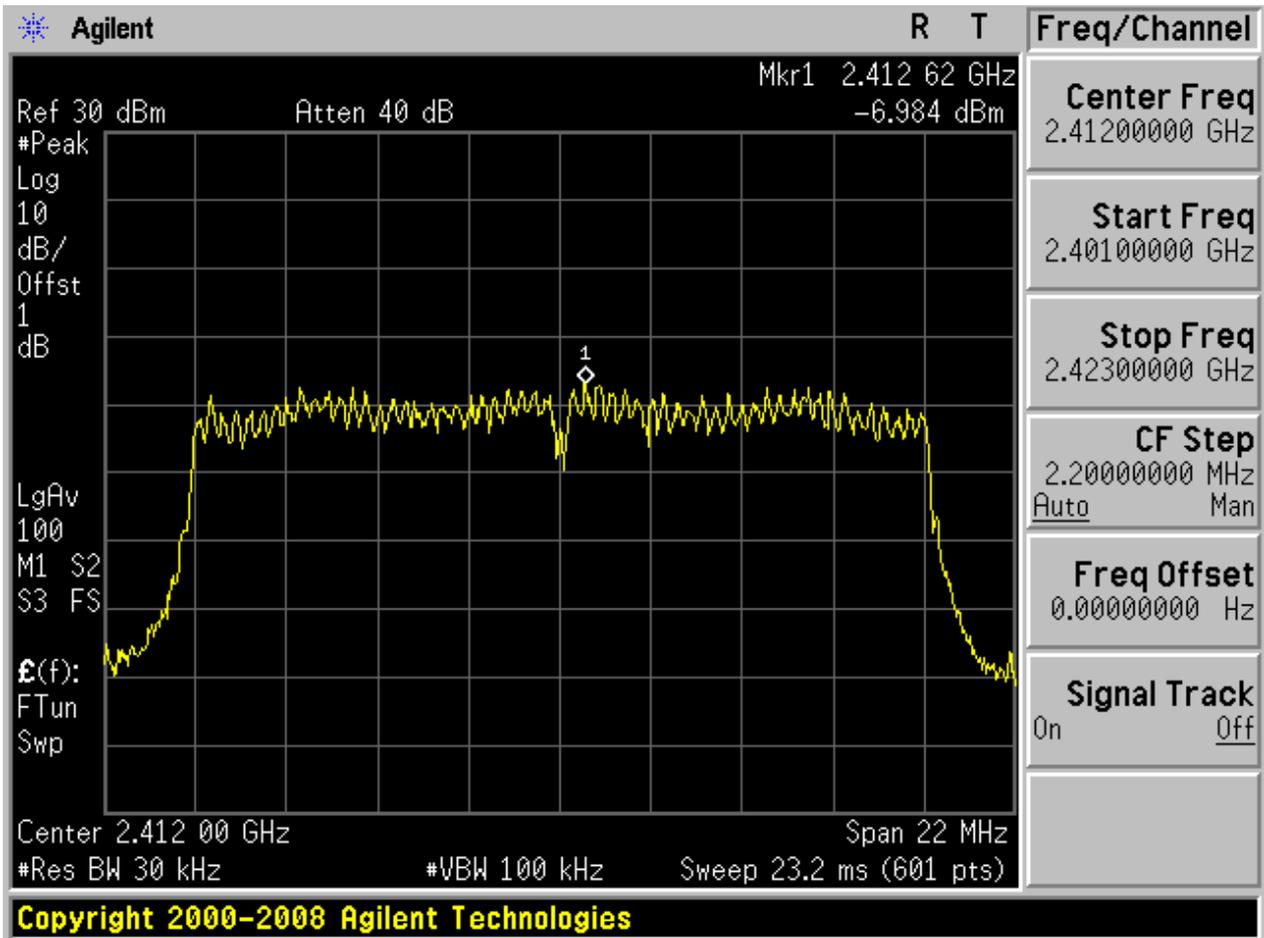
2.17 11N20_H@Ant 1



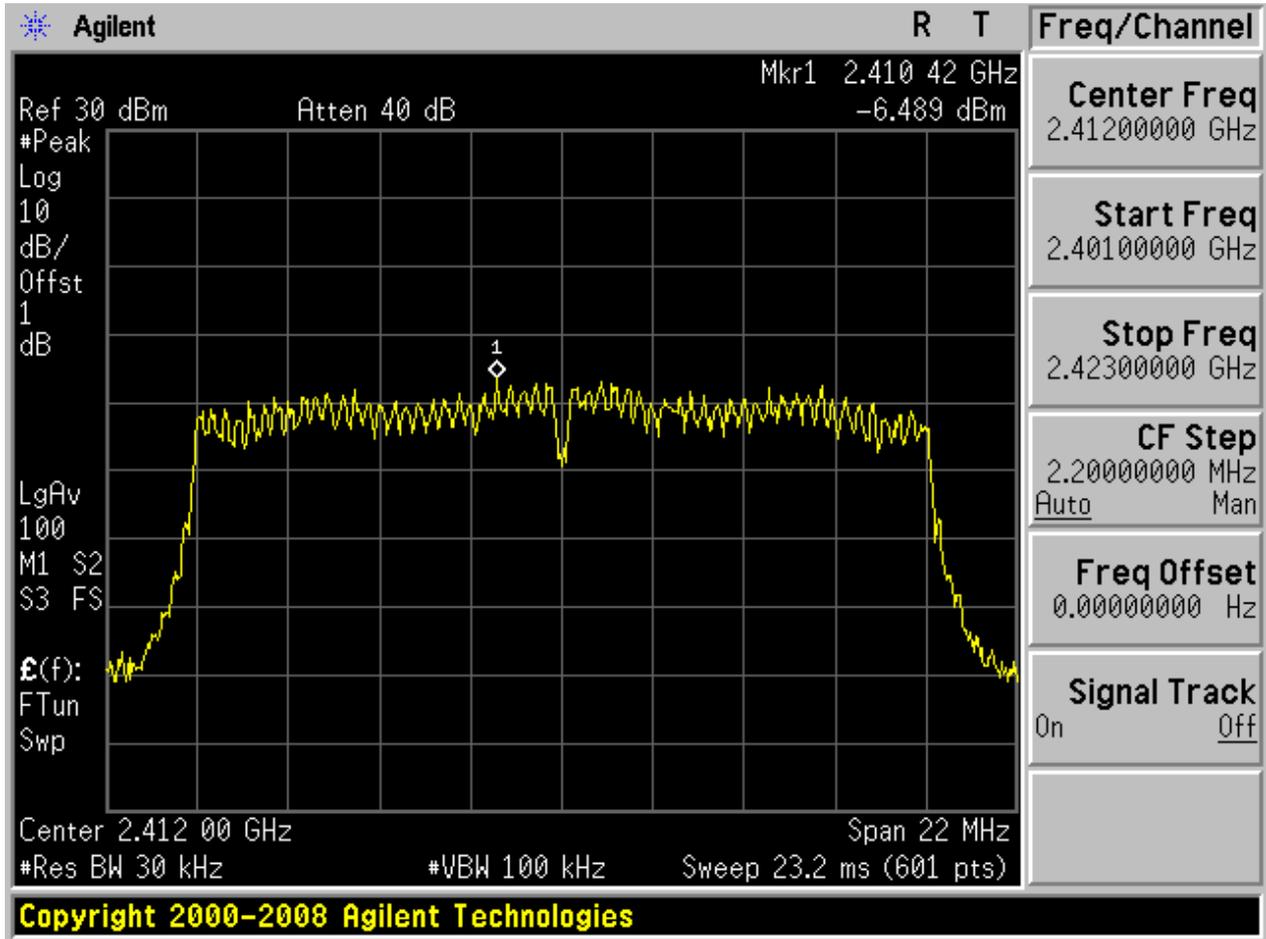
2.18 11N20_H@Ant 2



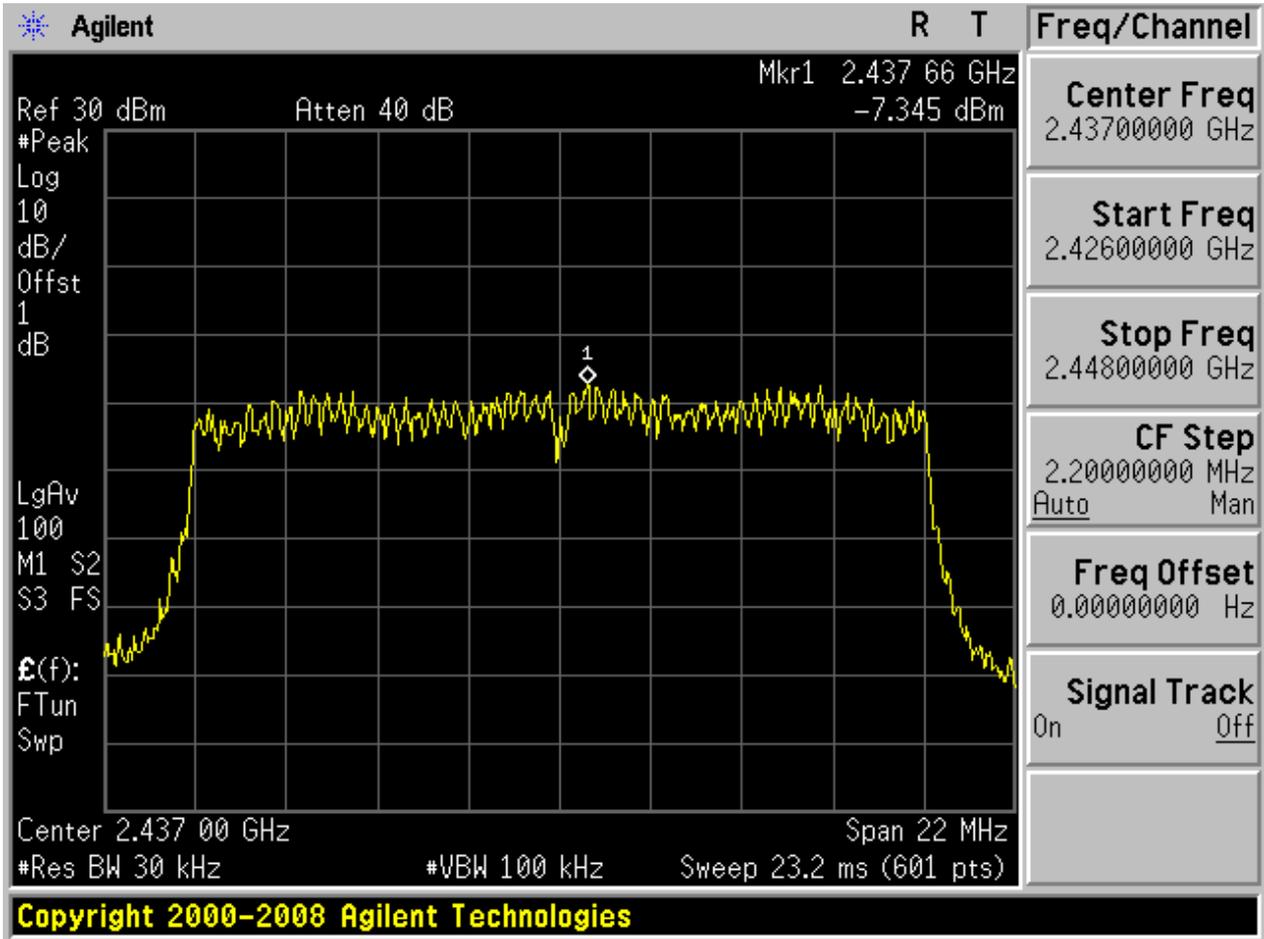
2.19 11N20m_L@Ant 1



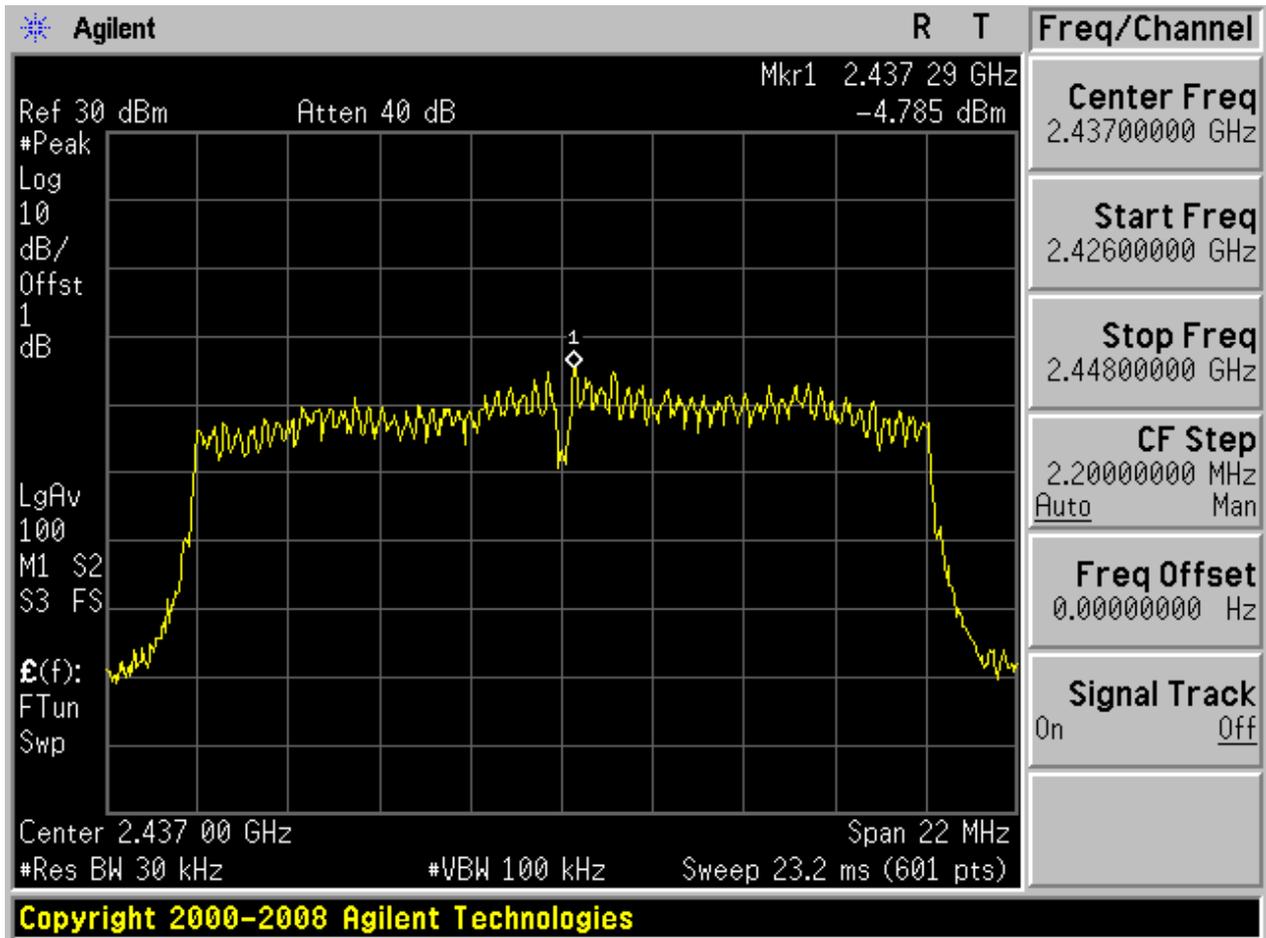
2.20 11N20m_L@Ant 2



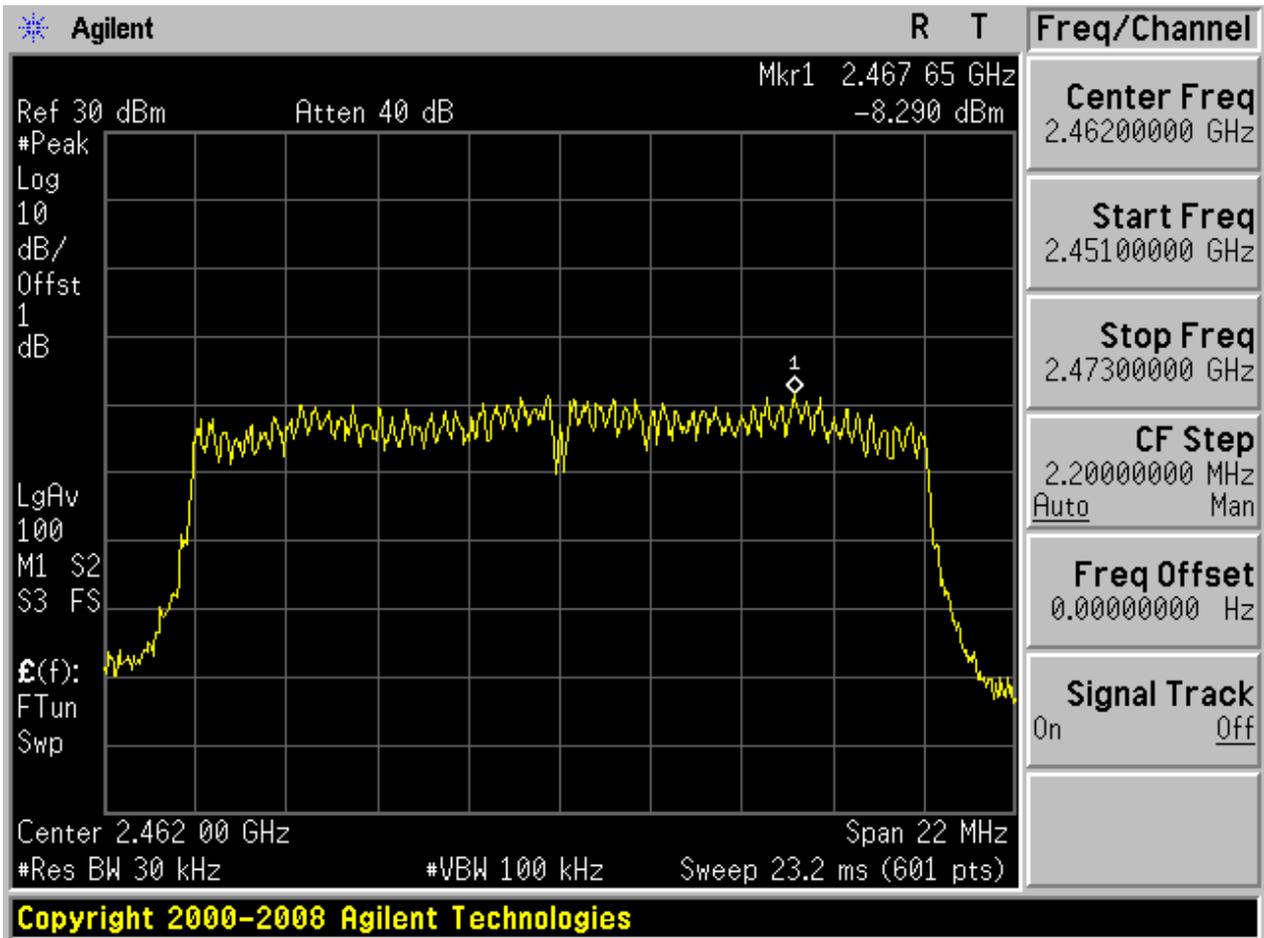
2.21 11N20m_M@Ant 1



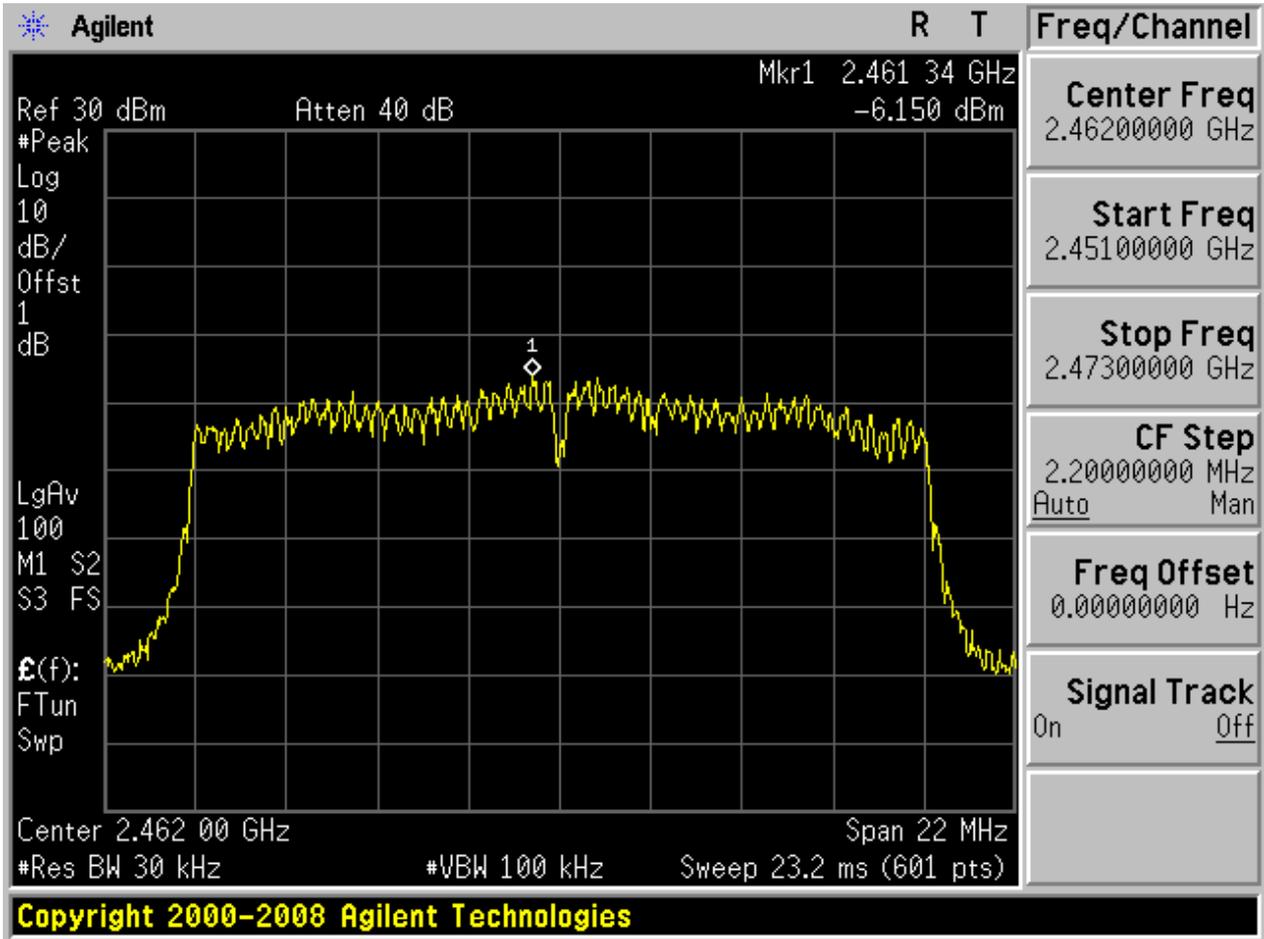
2.22 11N20m_M@Ant 2



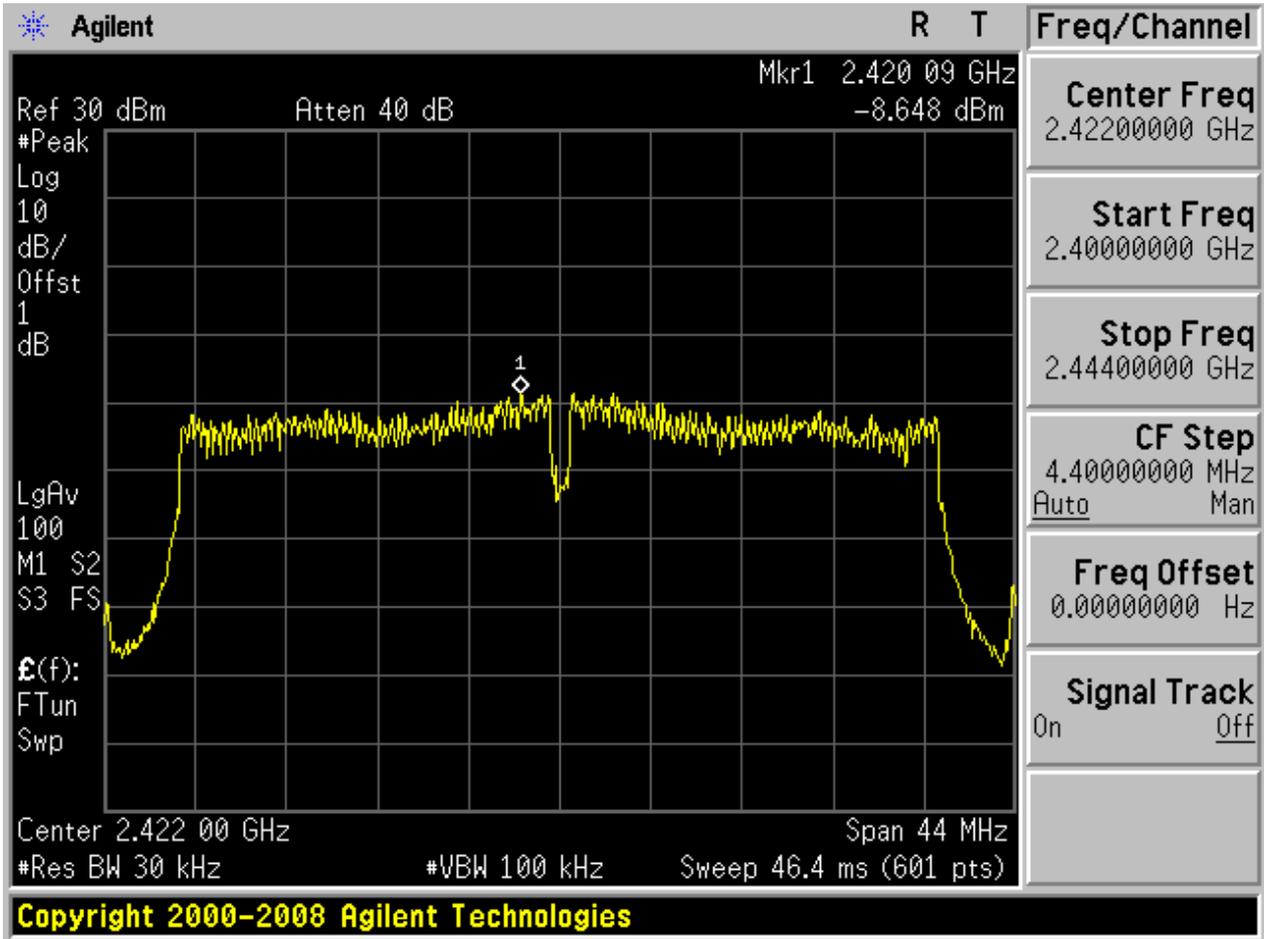
2.23 11N20m_H@Ant 1



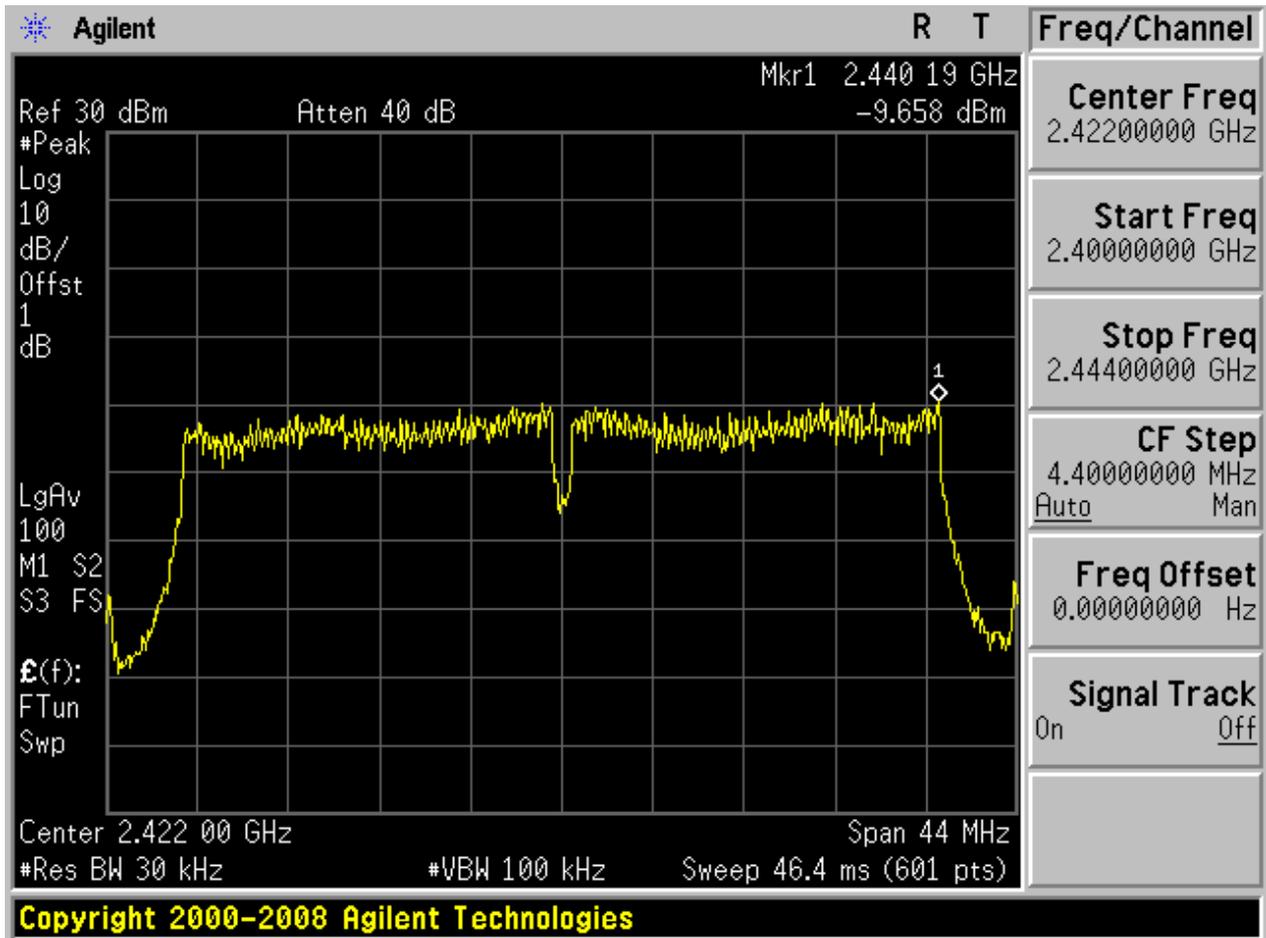
2.24 11N20m_H@Ant 2



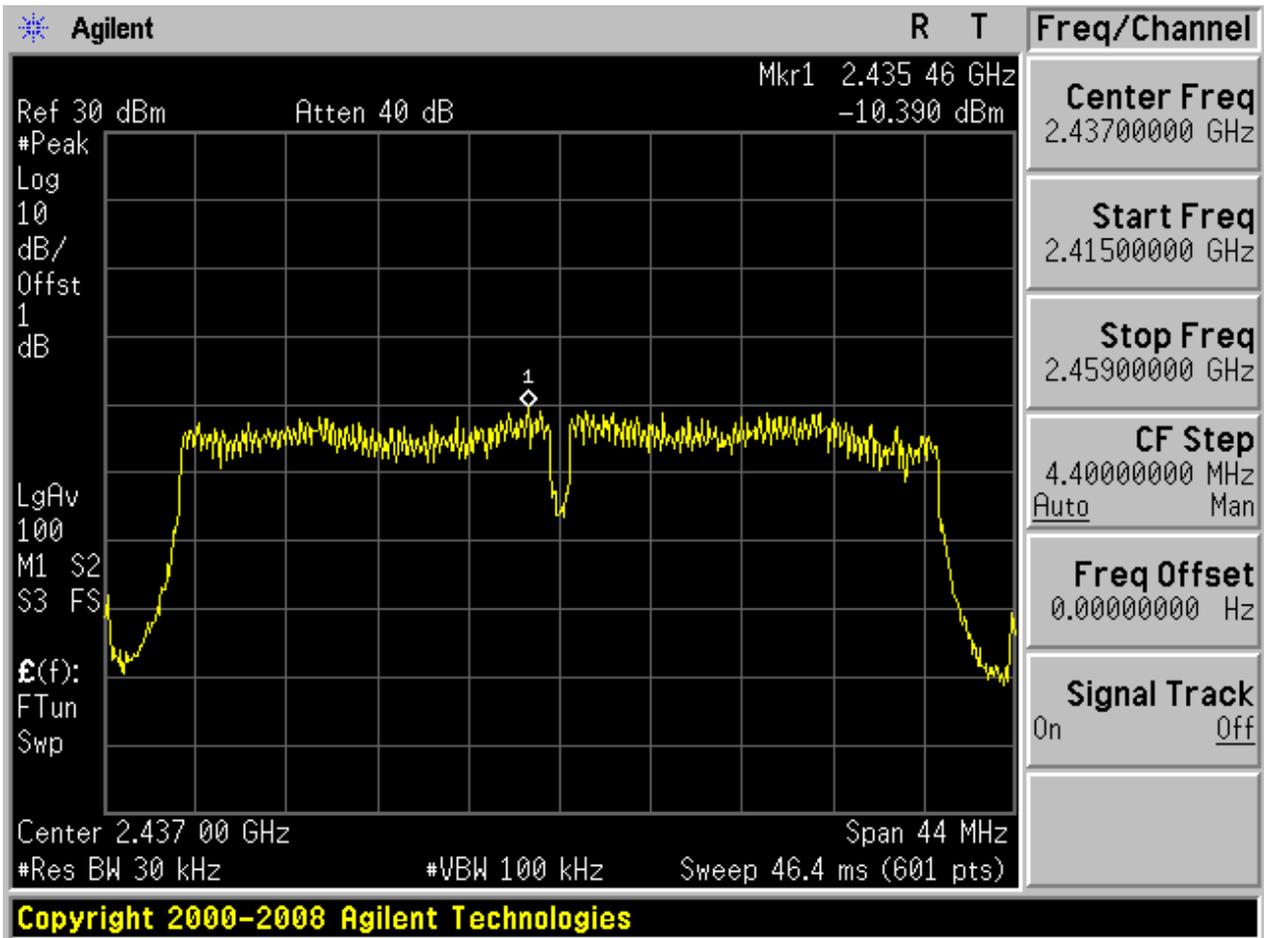
2.25 11N40_L@Ant 1



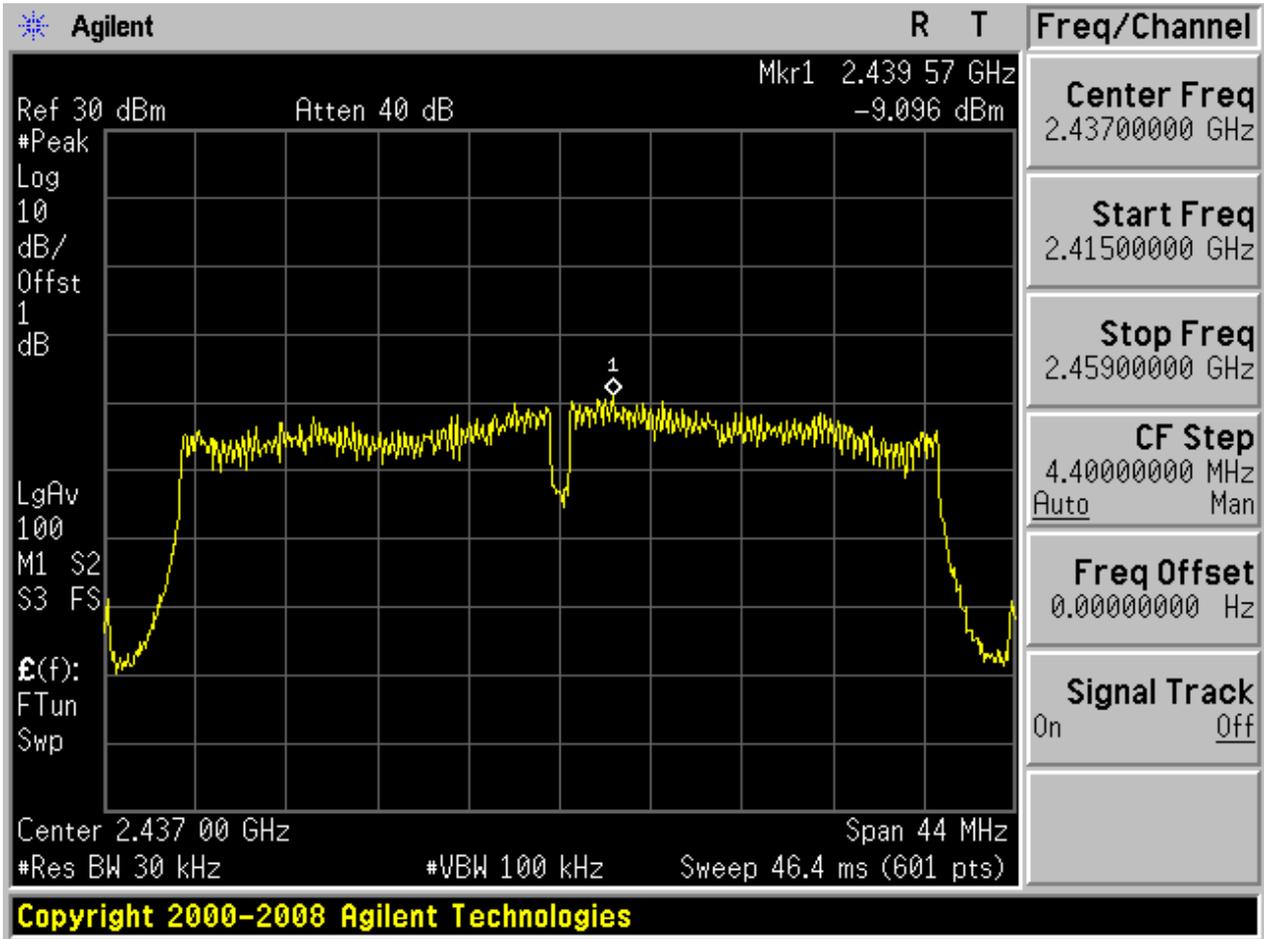
2.26 11N40_L@Ant 2



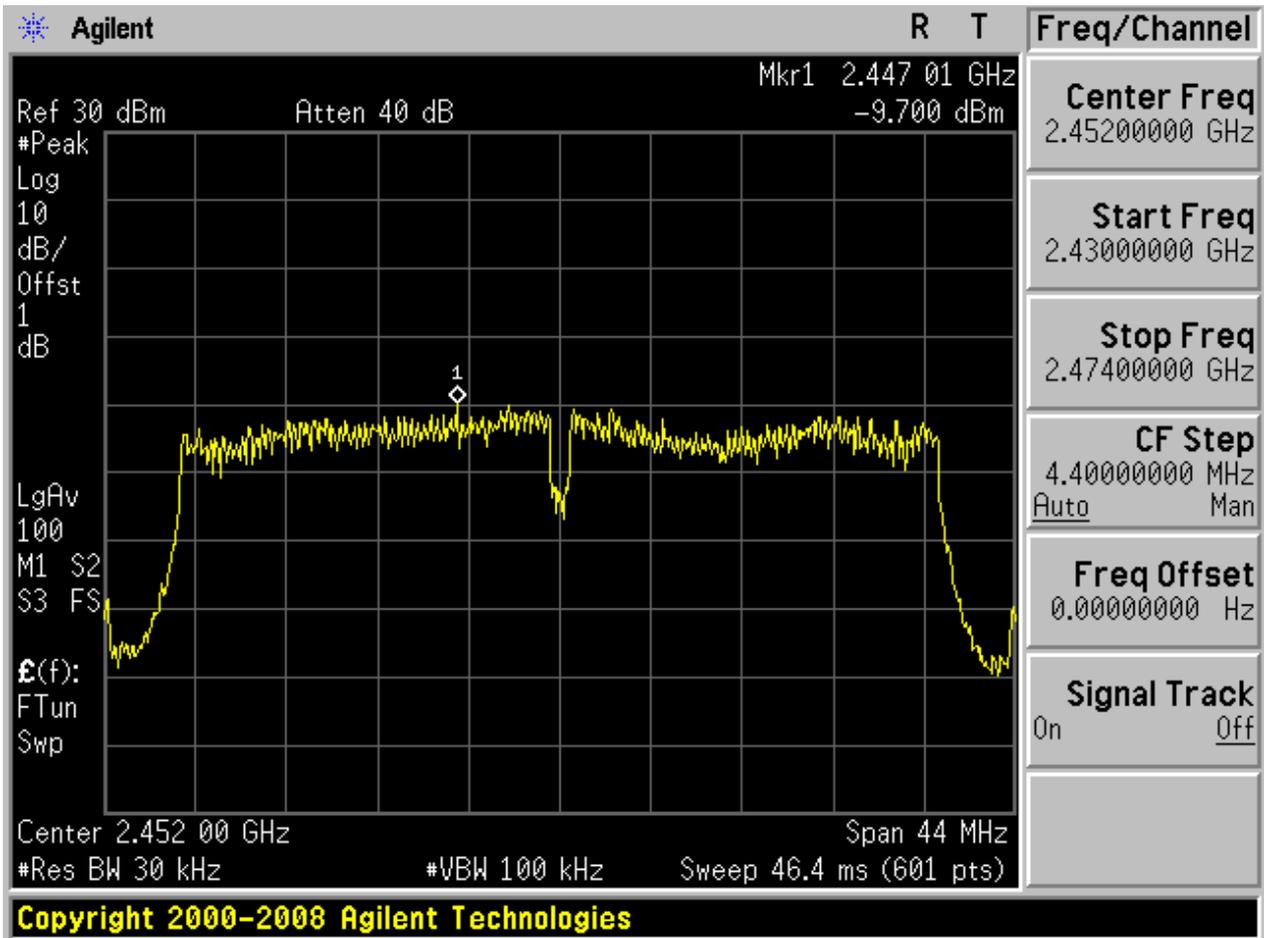
2.27 11N40_M@Ant 1



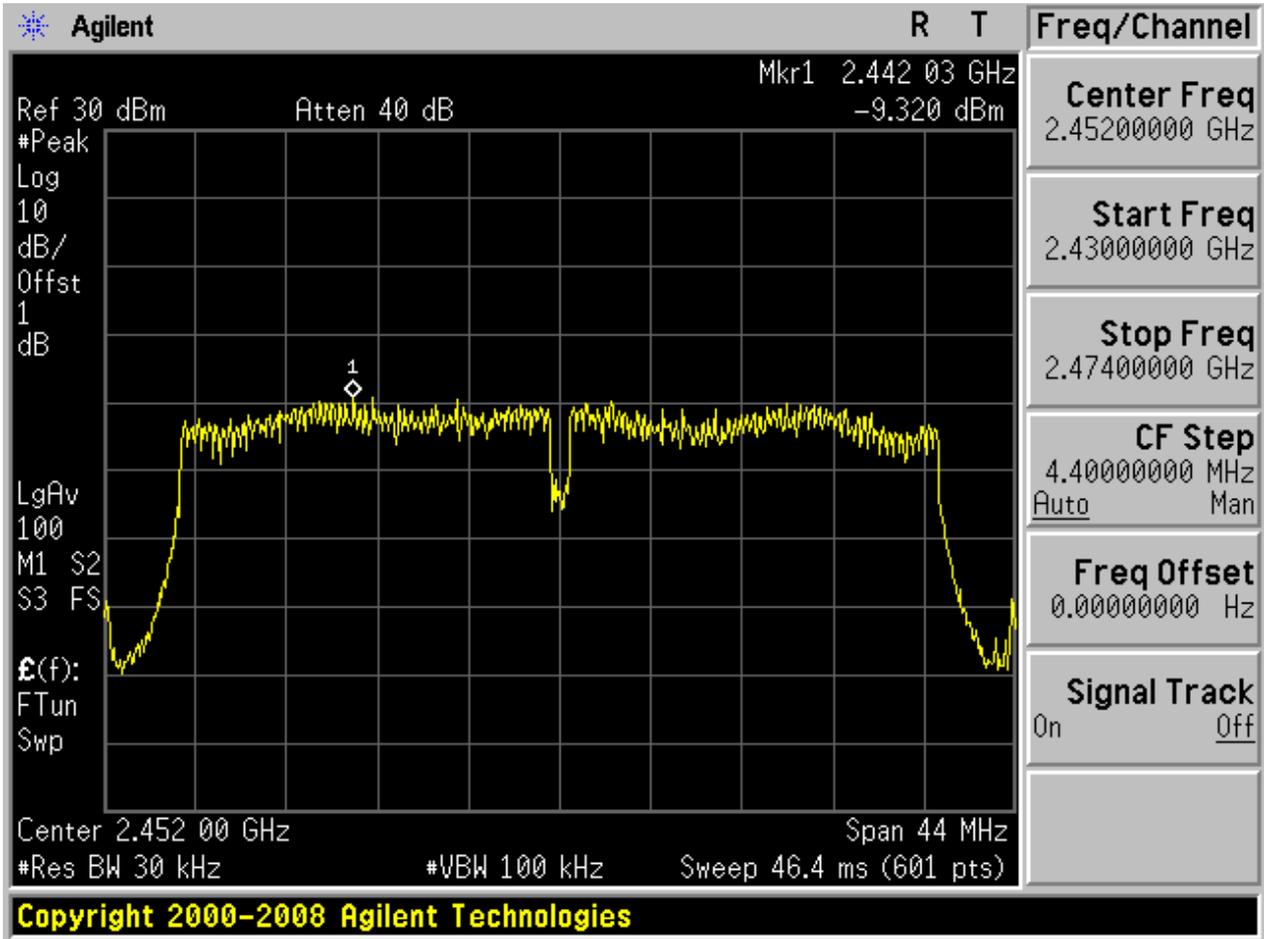
2.28 11N40_M@Ant 2



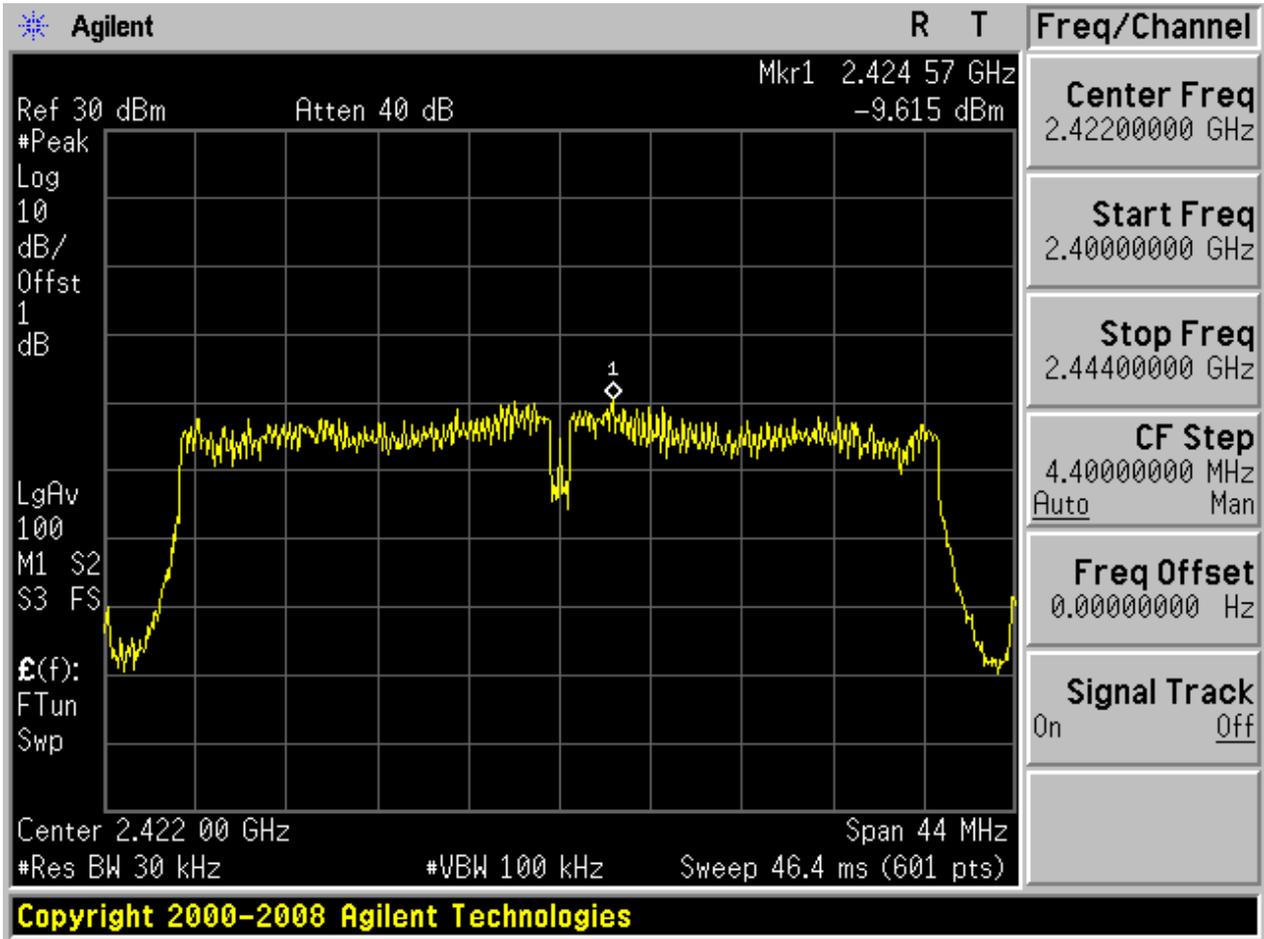
2.29 11N40_H@Ant 1



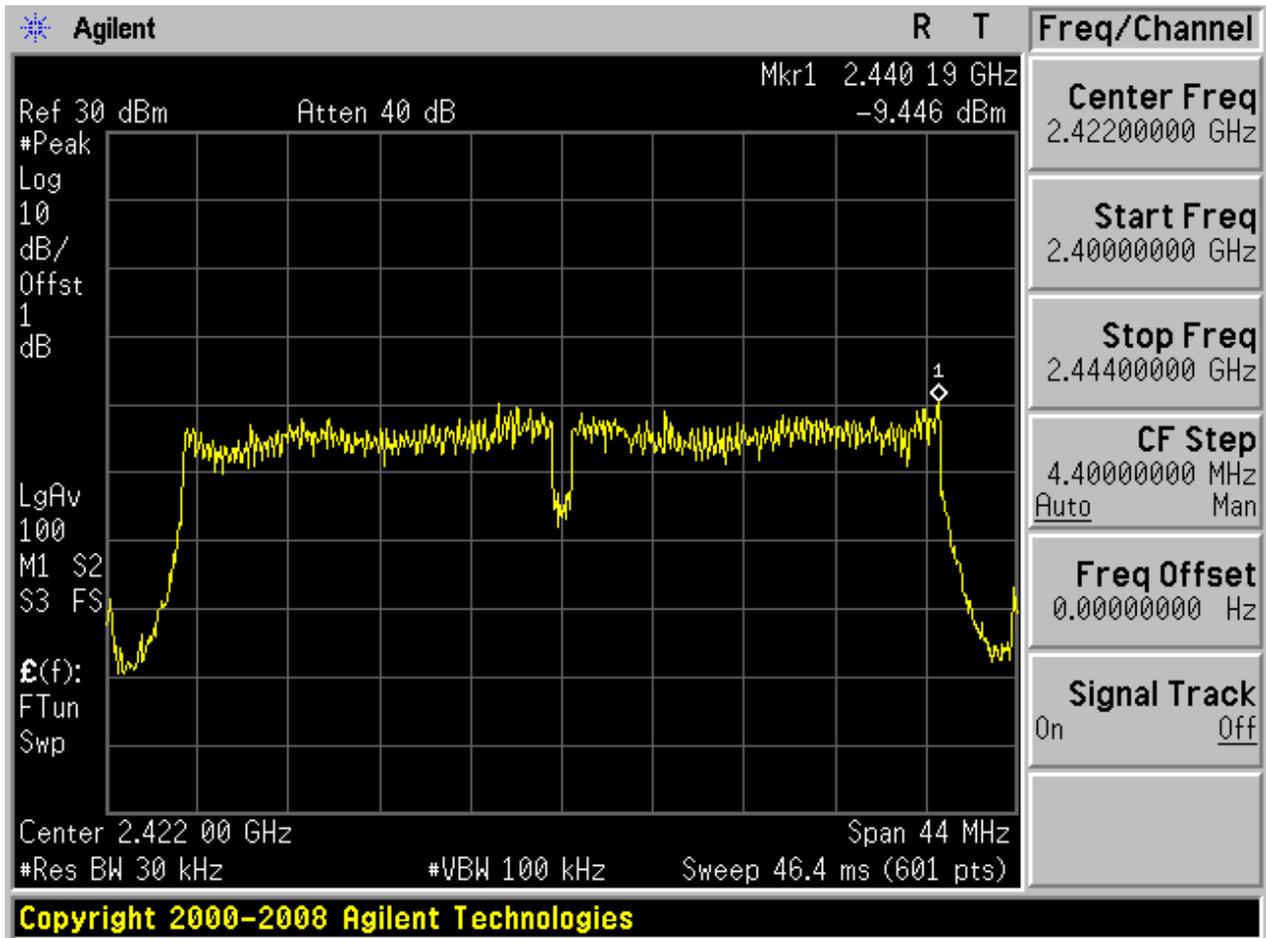
2.30 11N40_H@Ant 2



2.31 11N40m_L@Ant 1

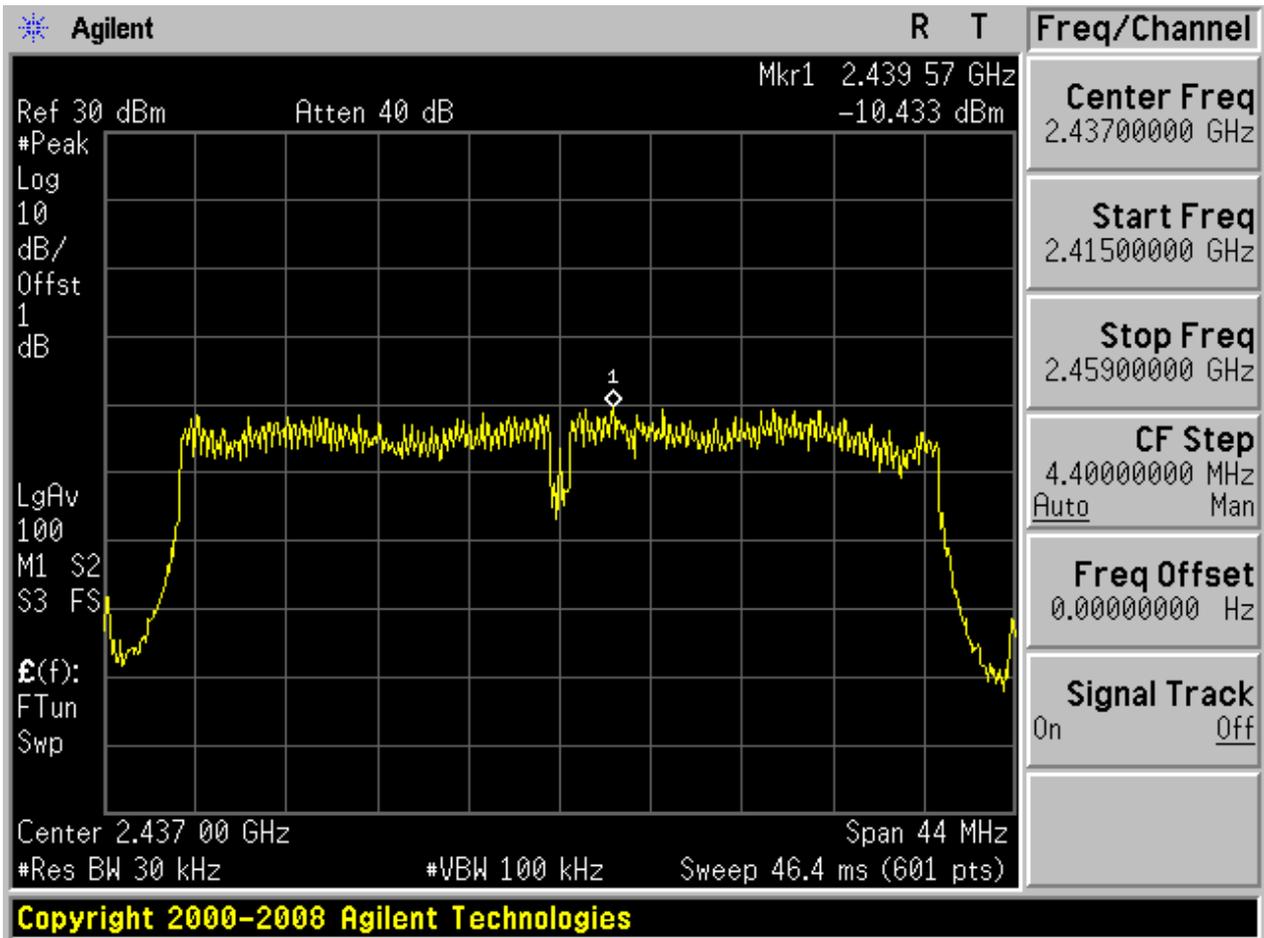


2.32 11N40m_L@Ant 2

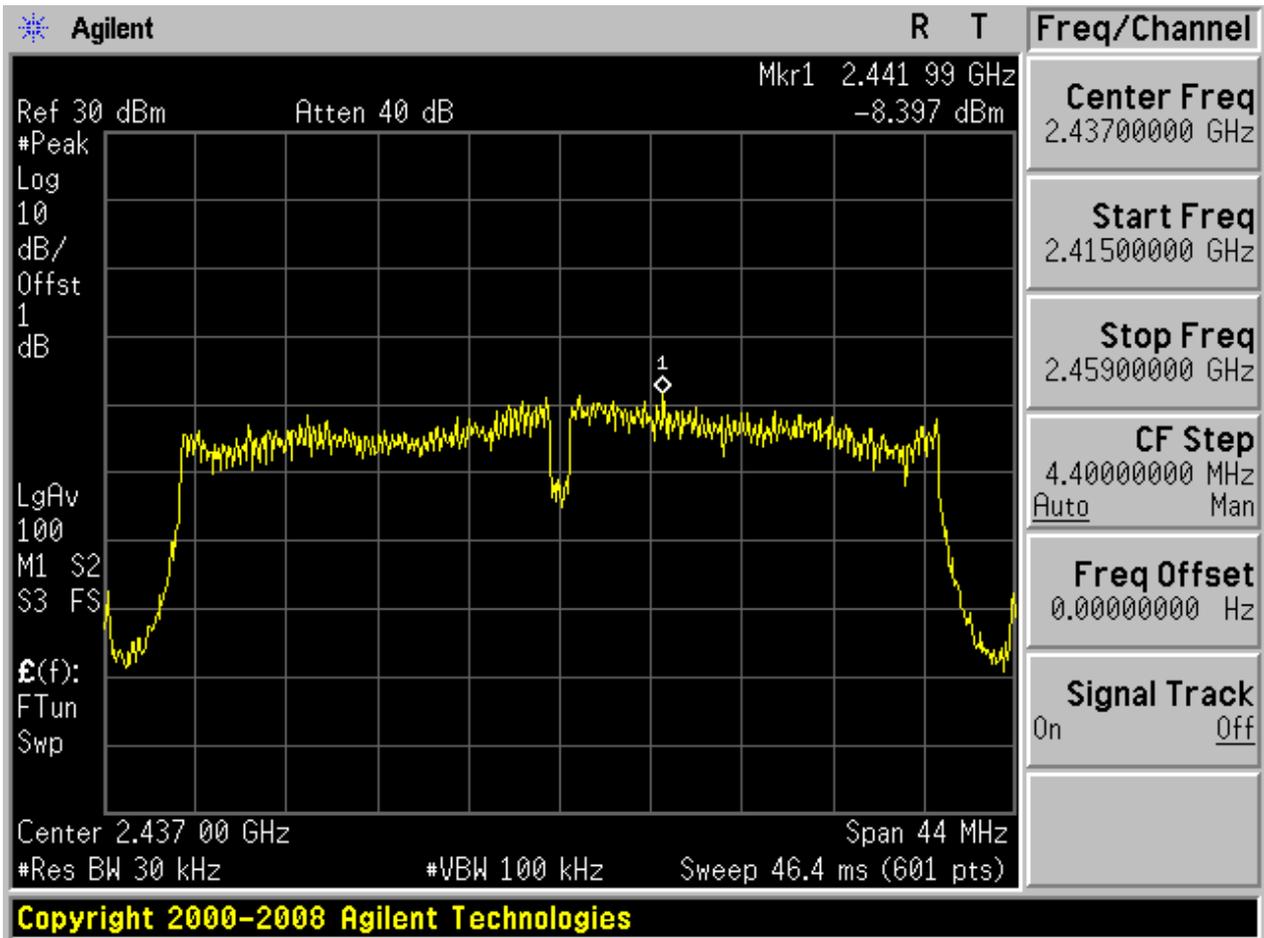


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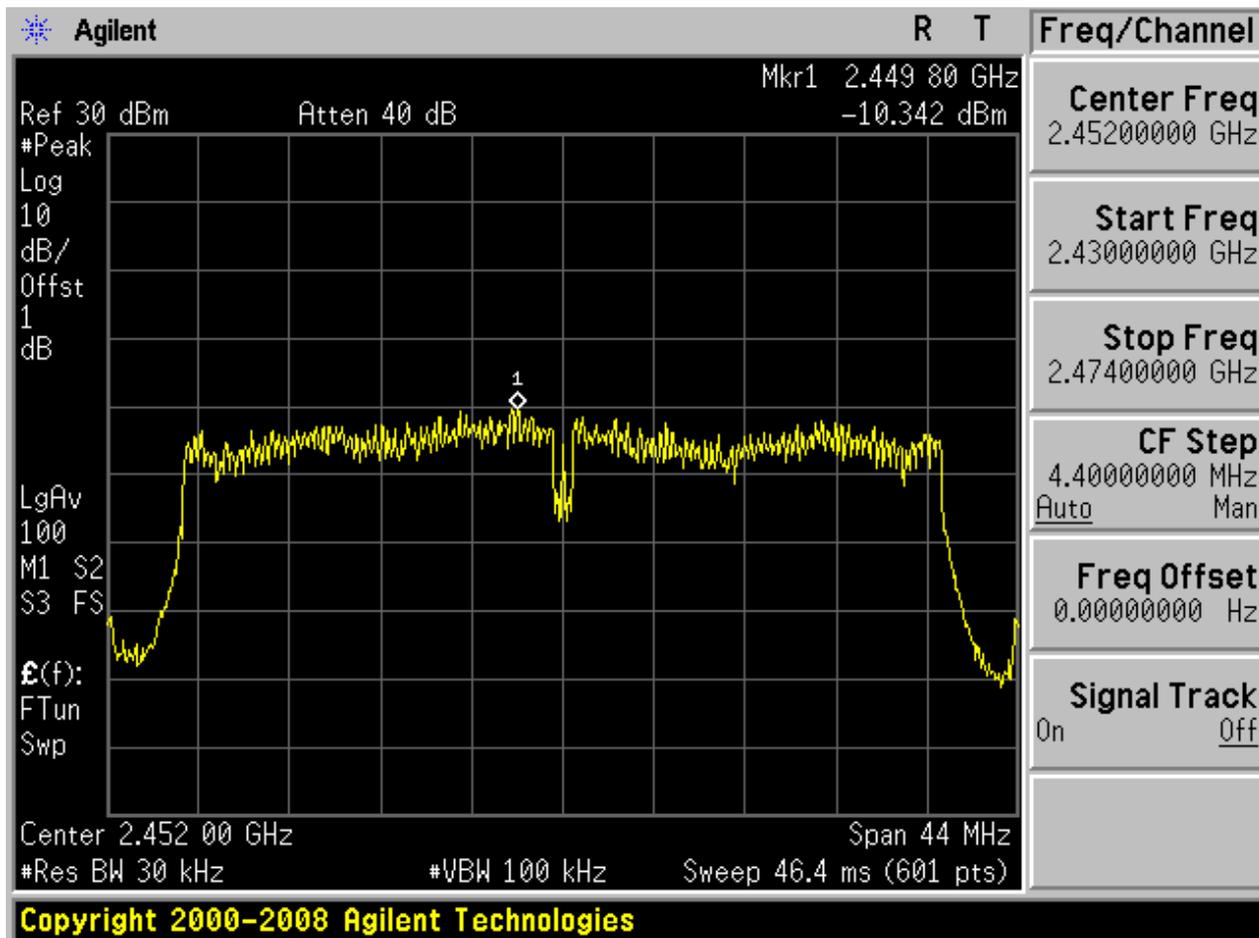
2.33 11N40m_M@Ant 1



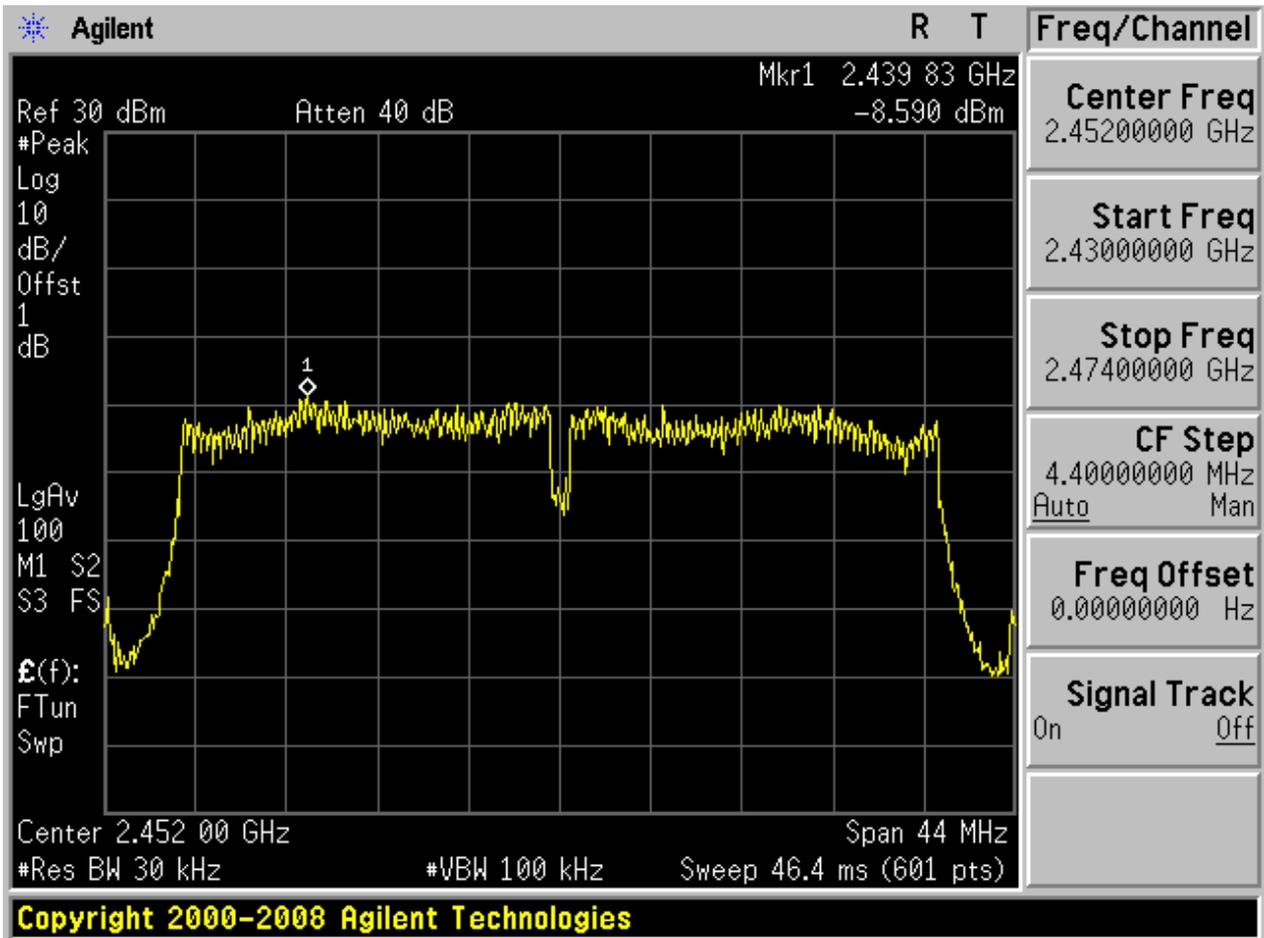
2.34 11N40m_M@Ant 2



2.35 11N40m_H@Ant 1



2.36 11N40m_H@Ant 2



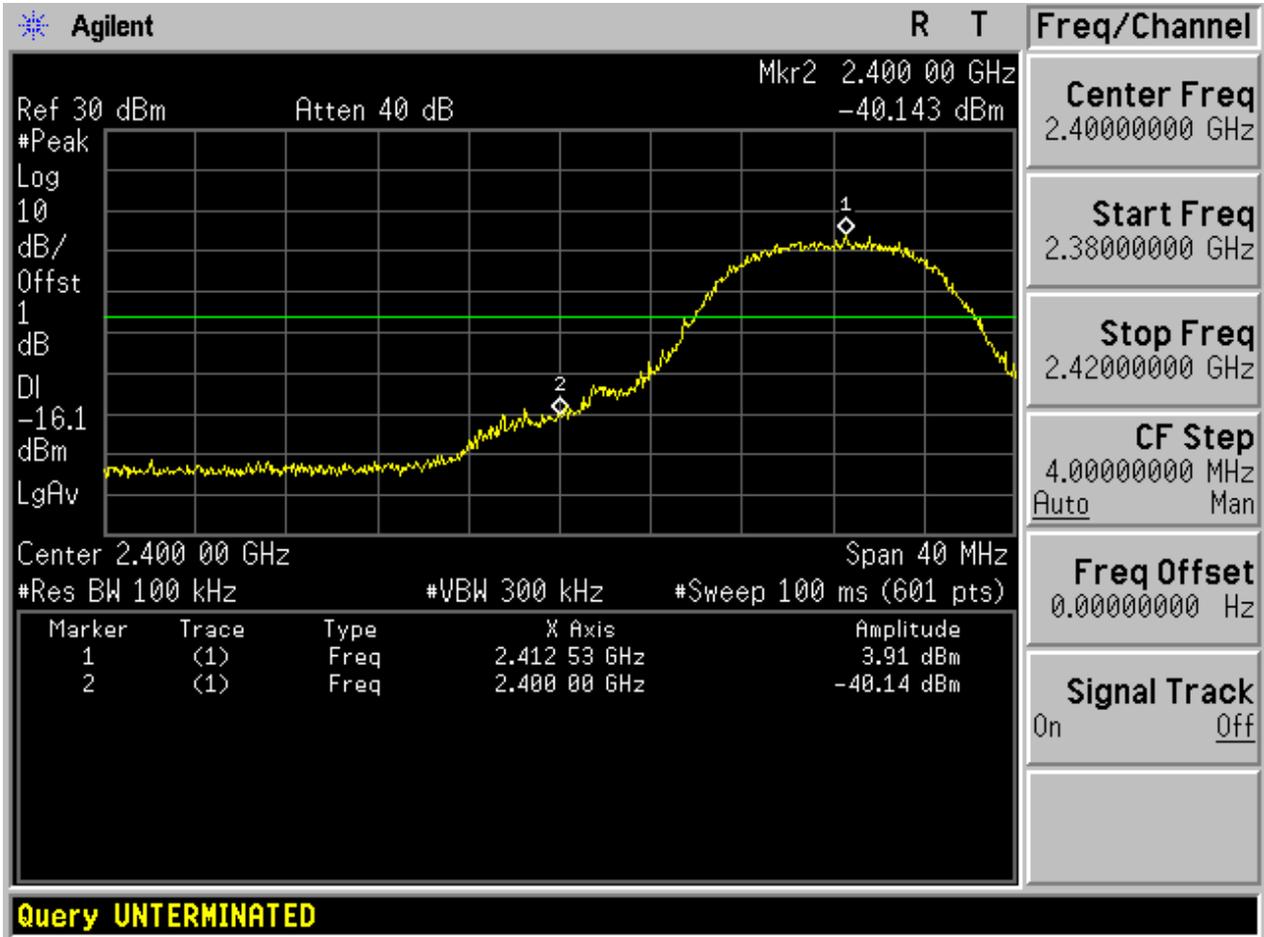
Appendix D: Band Edges Compliance

Part I - Test Results

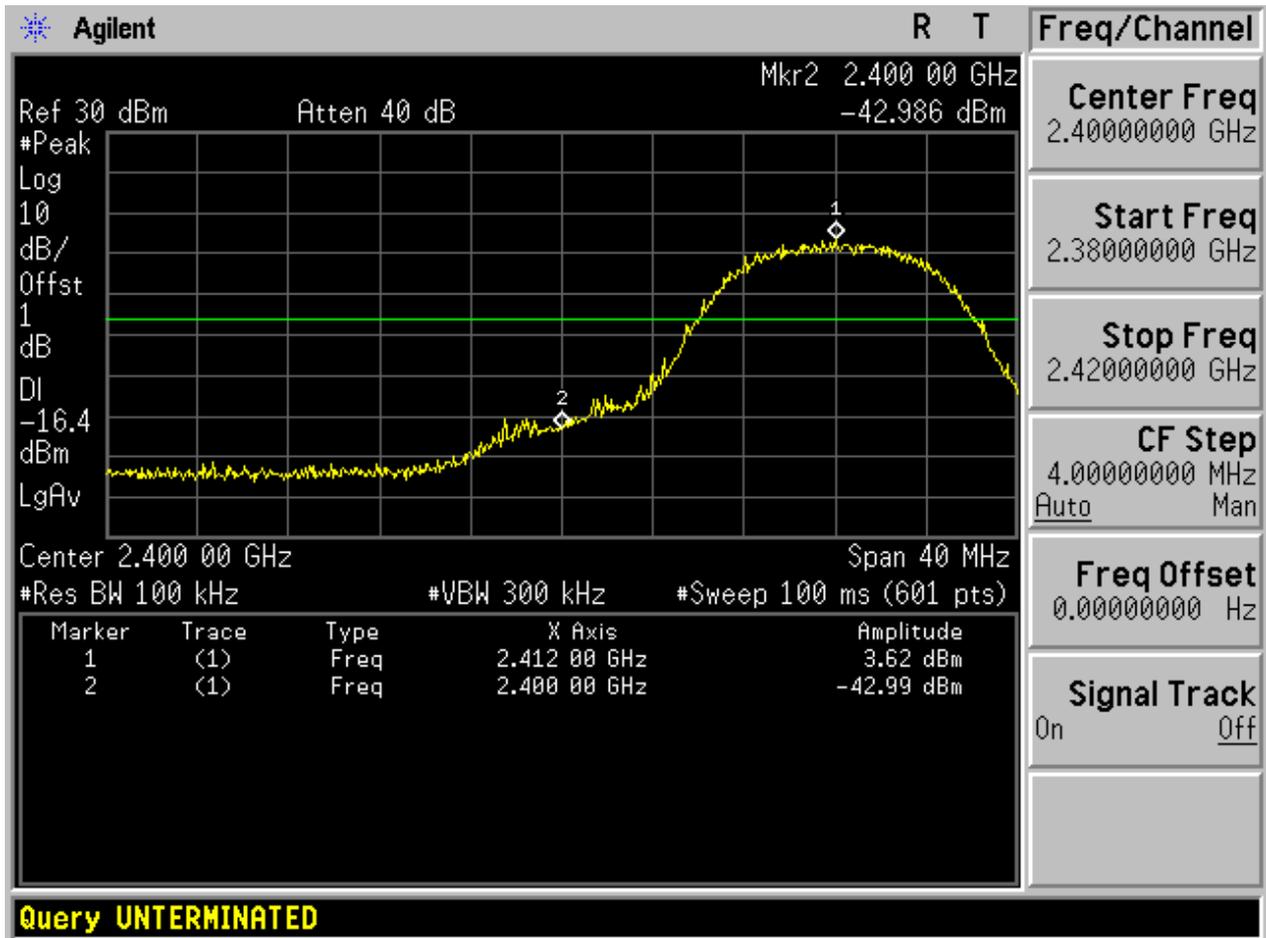
Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	3.91	-40.14	pass
11B	L	2412	Ant 2	3.62	-42.99	pass
11B	H	2462	Ant 1	1.28	-42.82	pass
11B	H	2462	Ant 2	2.68	-42.79	pass
11G	L	2412	Ant 1	0.03	-39.97	pass
11G	L	2412	Ant 2	0.86	-40.57	pass
11G	H	2462	Ant 1	-0.30	-44.39	pass
11G	H	2462	Ant 2	0.66	-43.28	pass
11N20	L	2412	Ant 1	-2.47	-42.16	pass
11N20	L	2412	Ant 2	-2.55	-45.53	pass
11N20	H	2462	Ant 1	-2.34	-43.42	pass
11N20	H	2462	Ant 2	-2.68	-44.65	pass
11N20m	L	2412	Ant 1	-2.24	-43.24	pass
11N20m	L	2412	Ant 2	-1.56	-44.81	pass
11N20m	H	2462	Ant 1	-3.42	-45.44	pass
11N20m	H	2462	Ant 2	-2.04	-45.22	pass
11N40	L	2422	Ant 1	-3.57	-40.94	pass
11N40	L	2422	Ant 2	-5.24	-37.89	pass
11N40	H	2452	Ant 1	-6.14	-36.32	pass
11N40	H	2452	Ant 2	-5.32	-35.82	pass
11N40m	L	2422	Ant 1	-3.86	-42.06	pass
11N40m	L	2422	Ant 2	-5.78	-38.39	pass
11N40m	H	2452	Ant 1	-6.51	-36.48	pass
11N40m	H	2452	Ant 2	-5.15	-33.76	pass

Part II - Test Plots

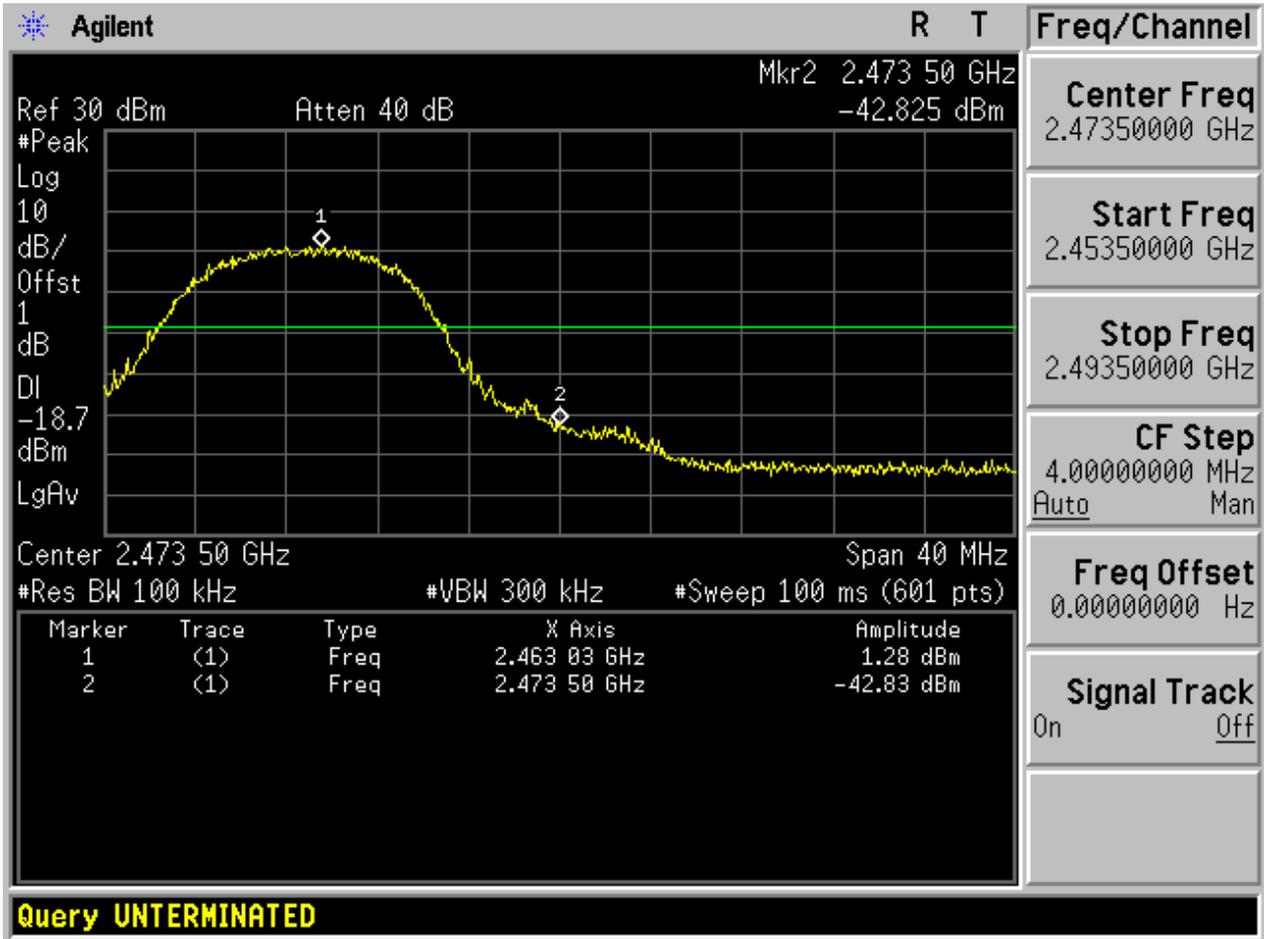
2.1 11B_L@Ant 1



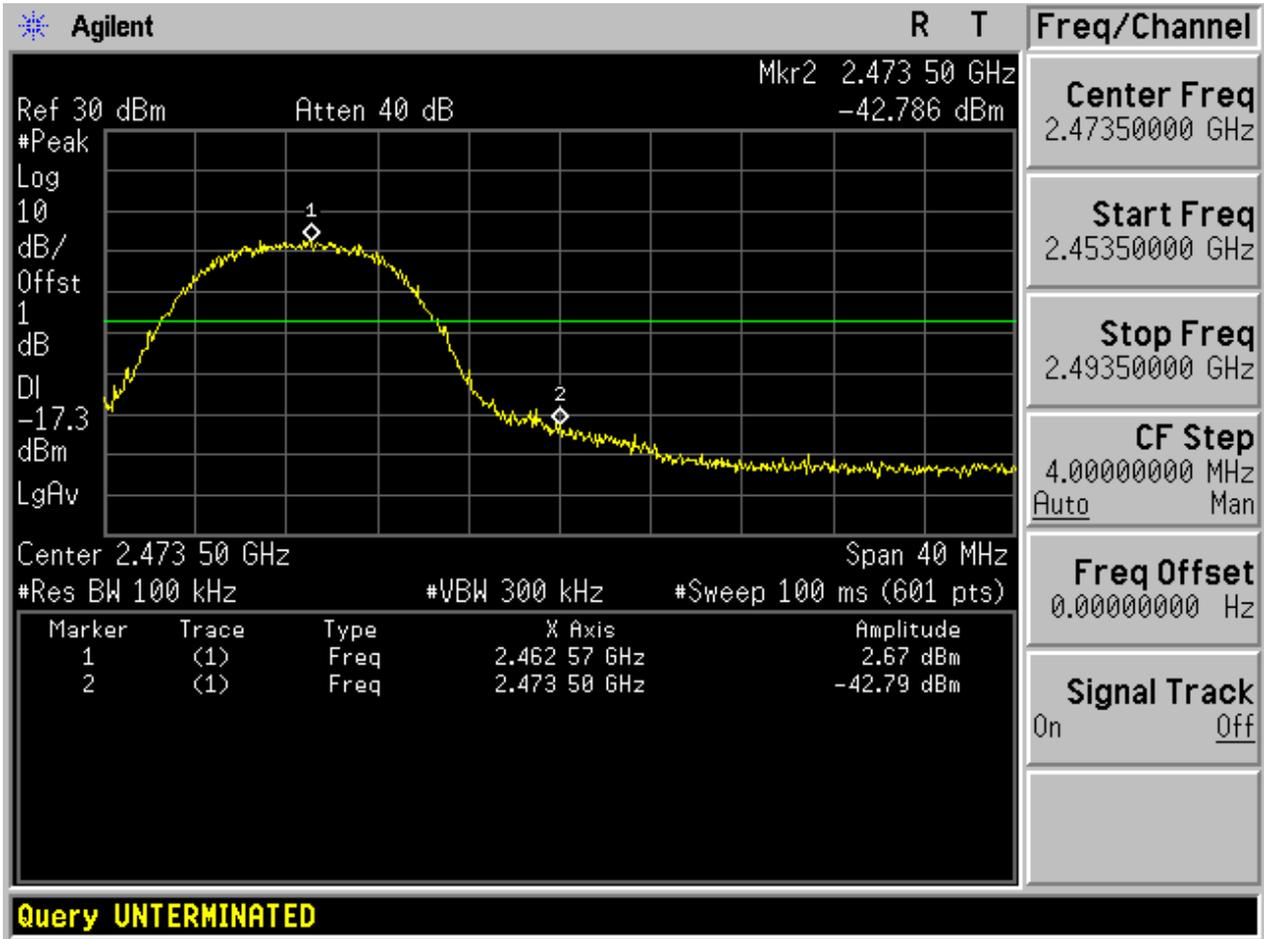
2.2 11B_L@Ant 2



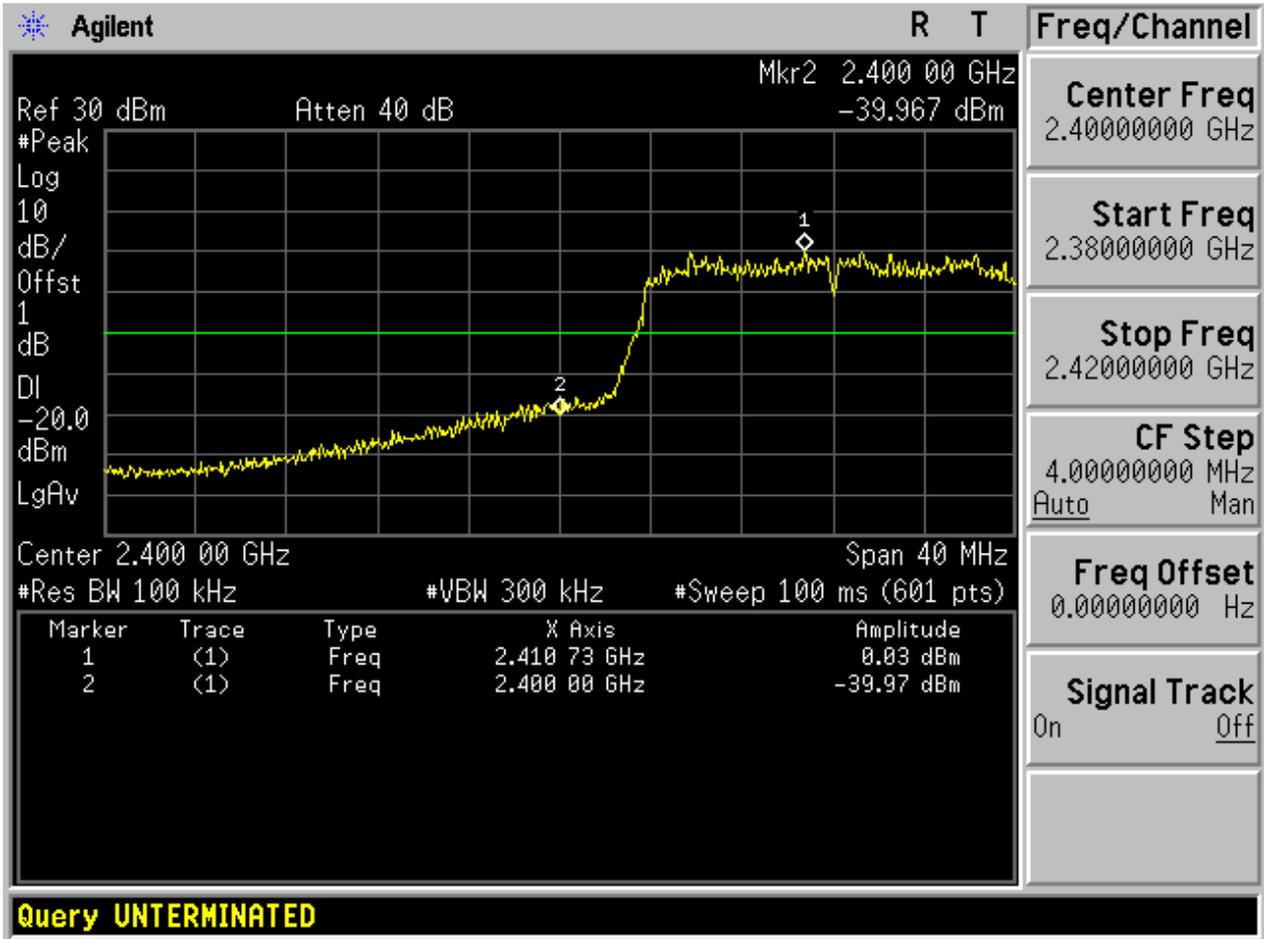
2.3 11B_H@Ant 1



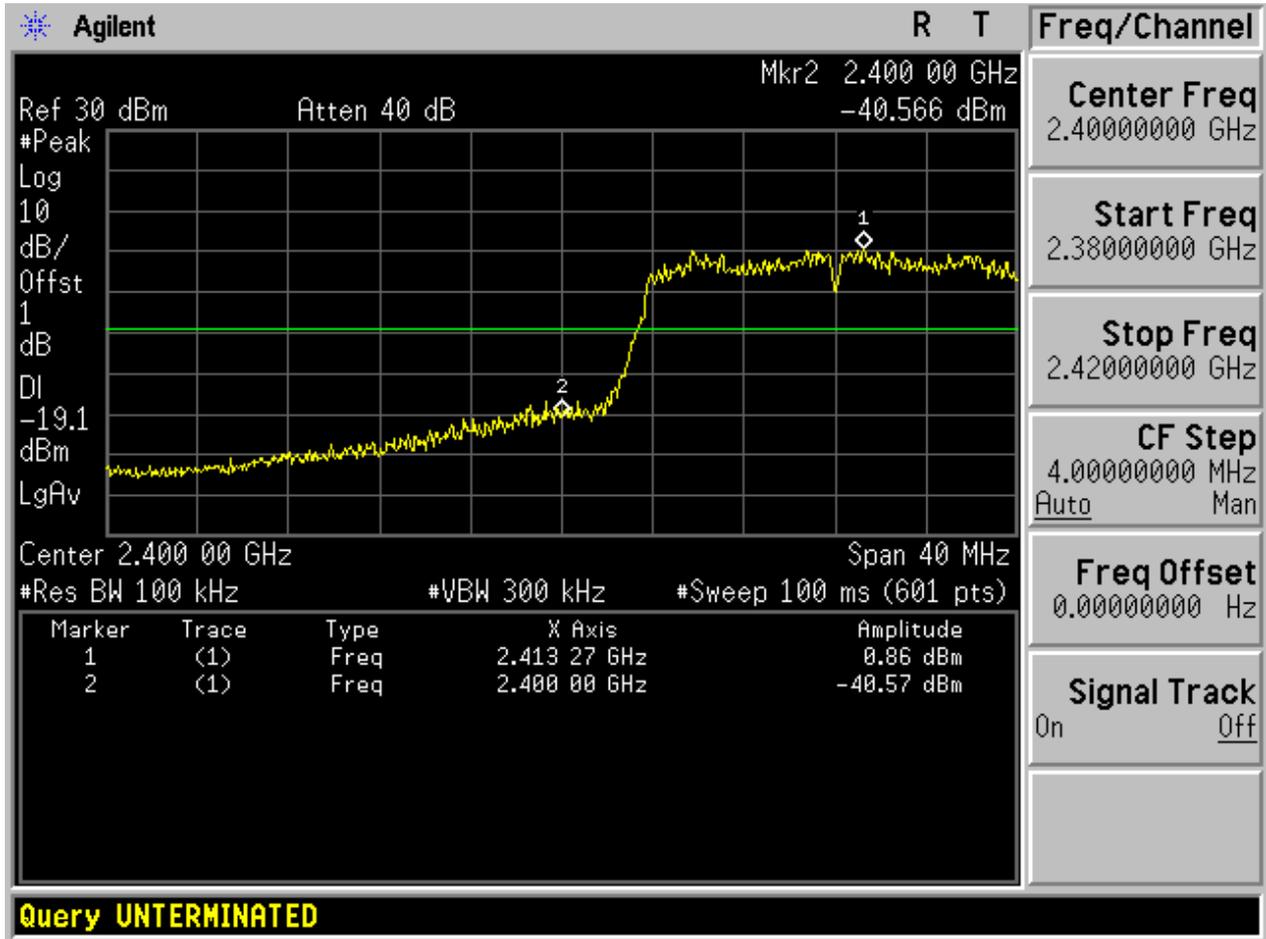
2.4 11B_H@Ant 2



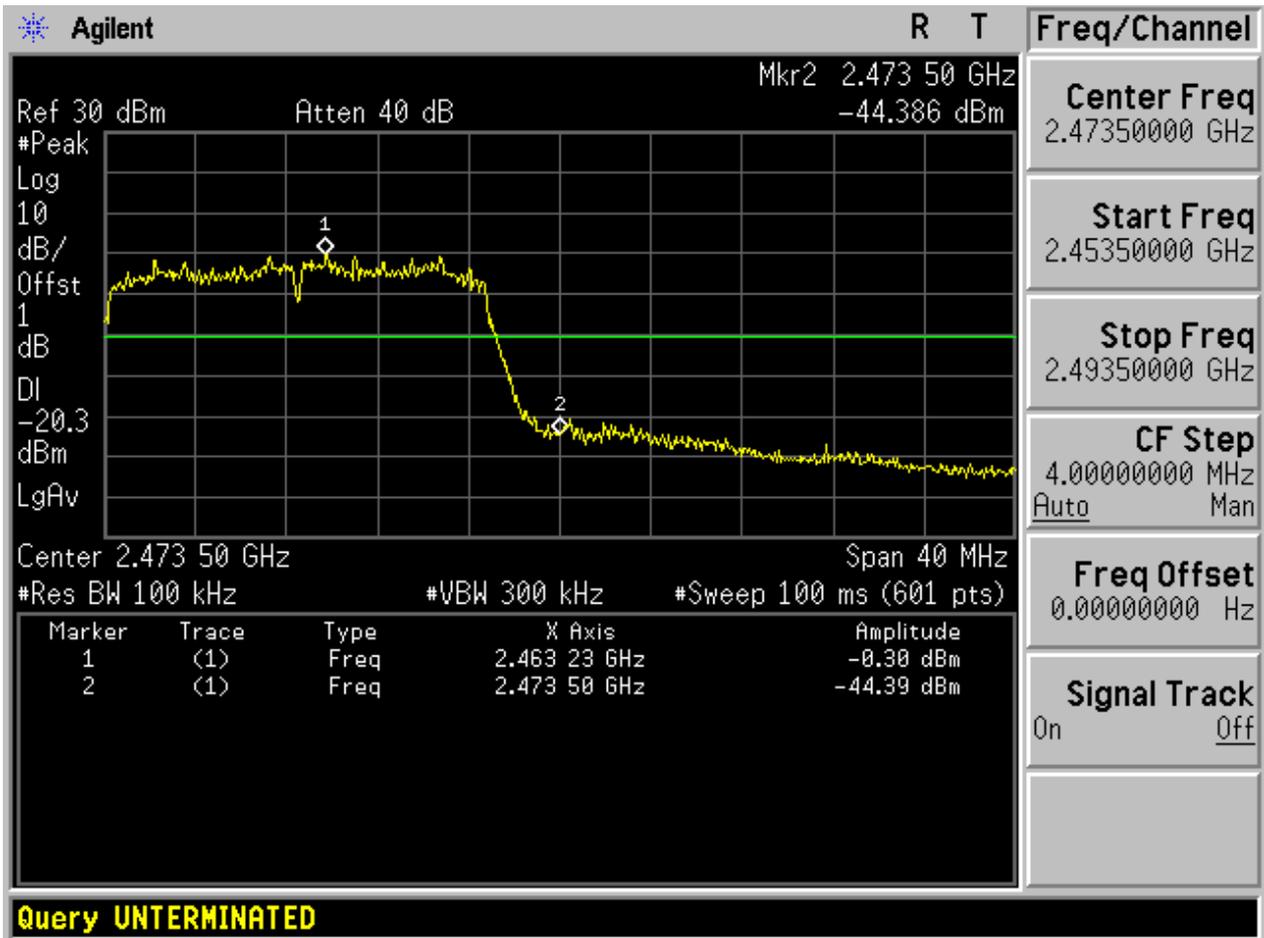
2.5 11G_L@Ant 1



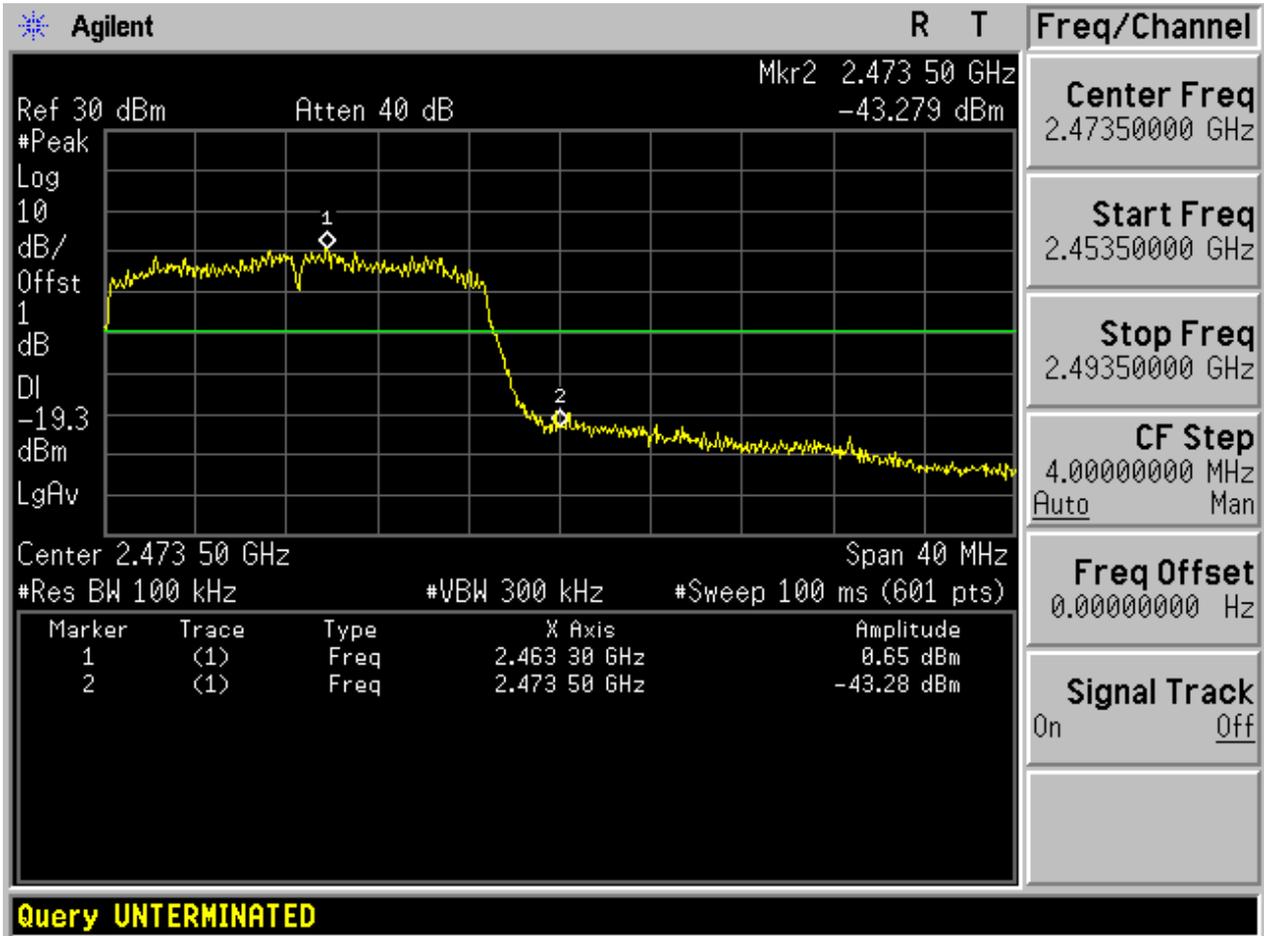
2.6 11G_L@Ant 2



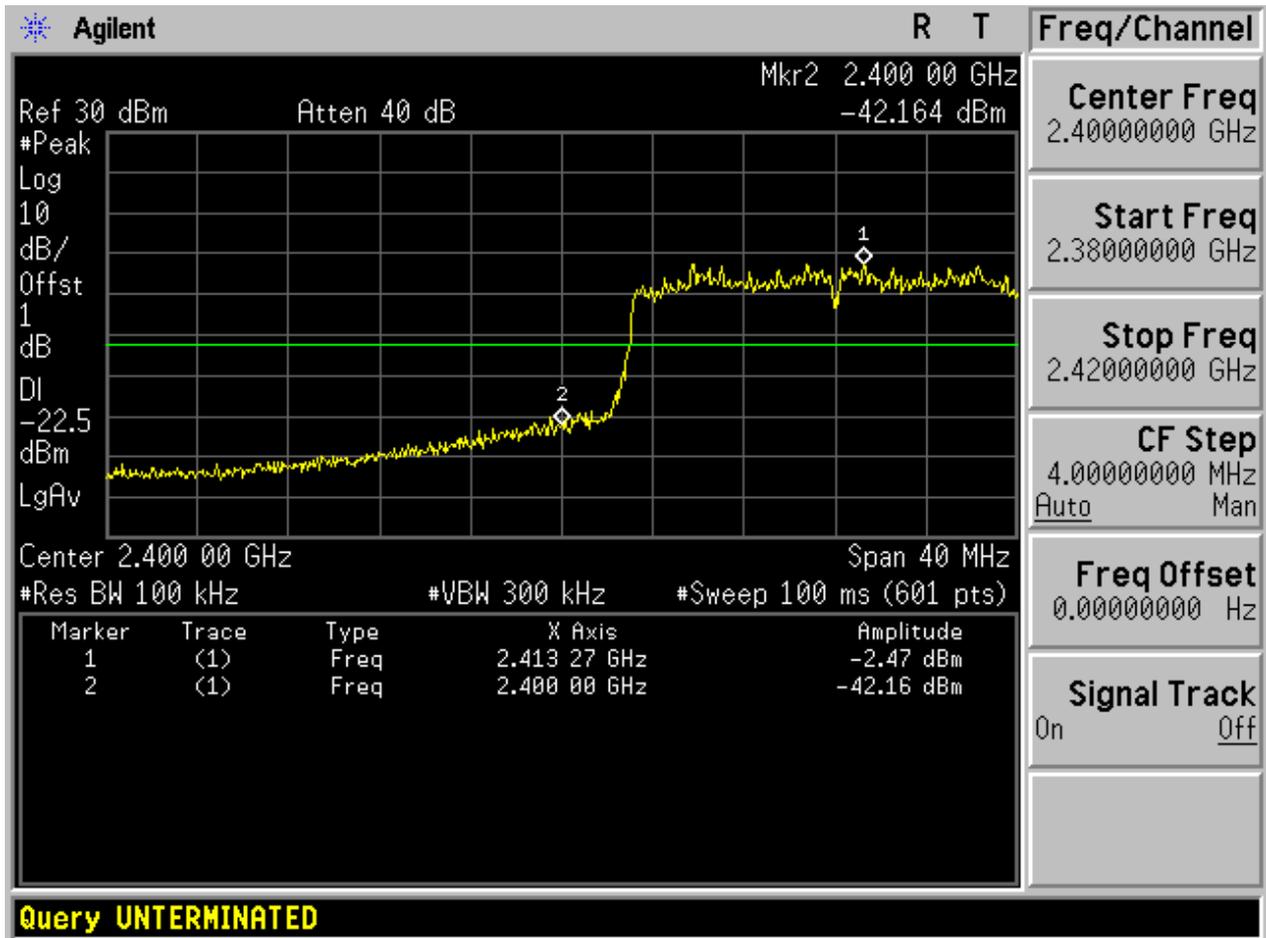
2.7 11G_H@Ant 1



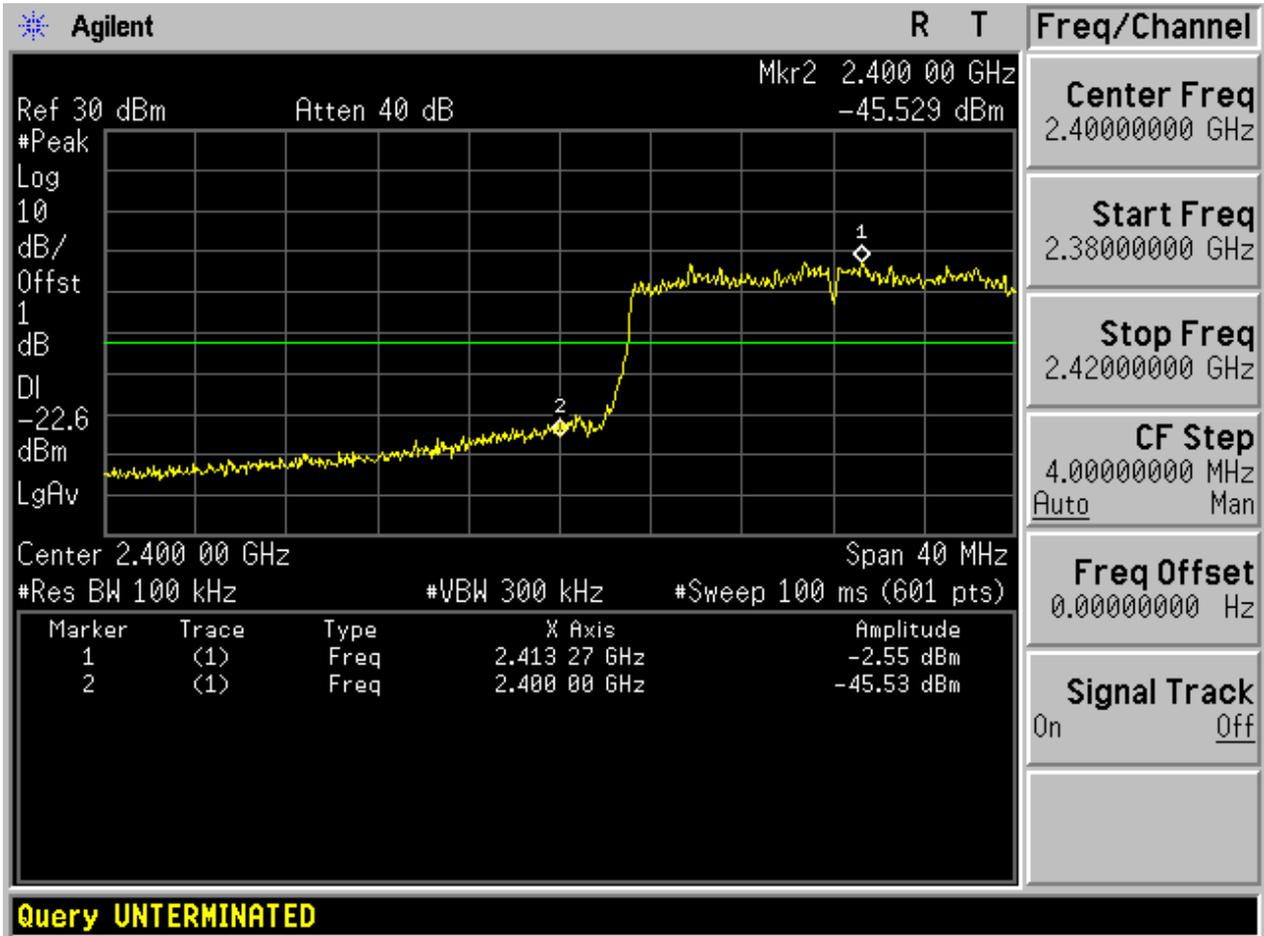
2.8 11G_H@Ant 2



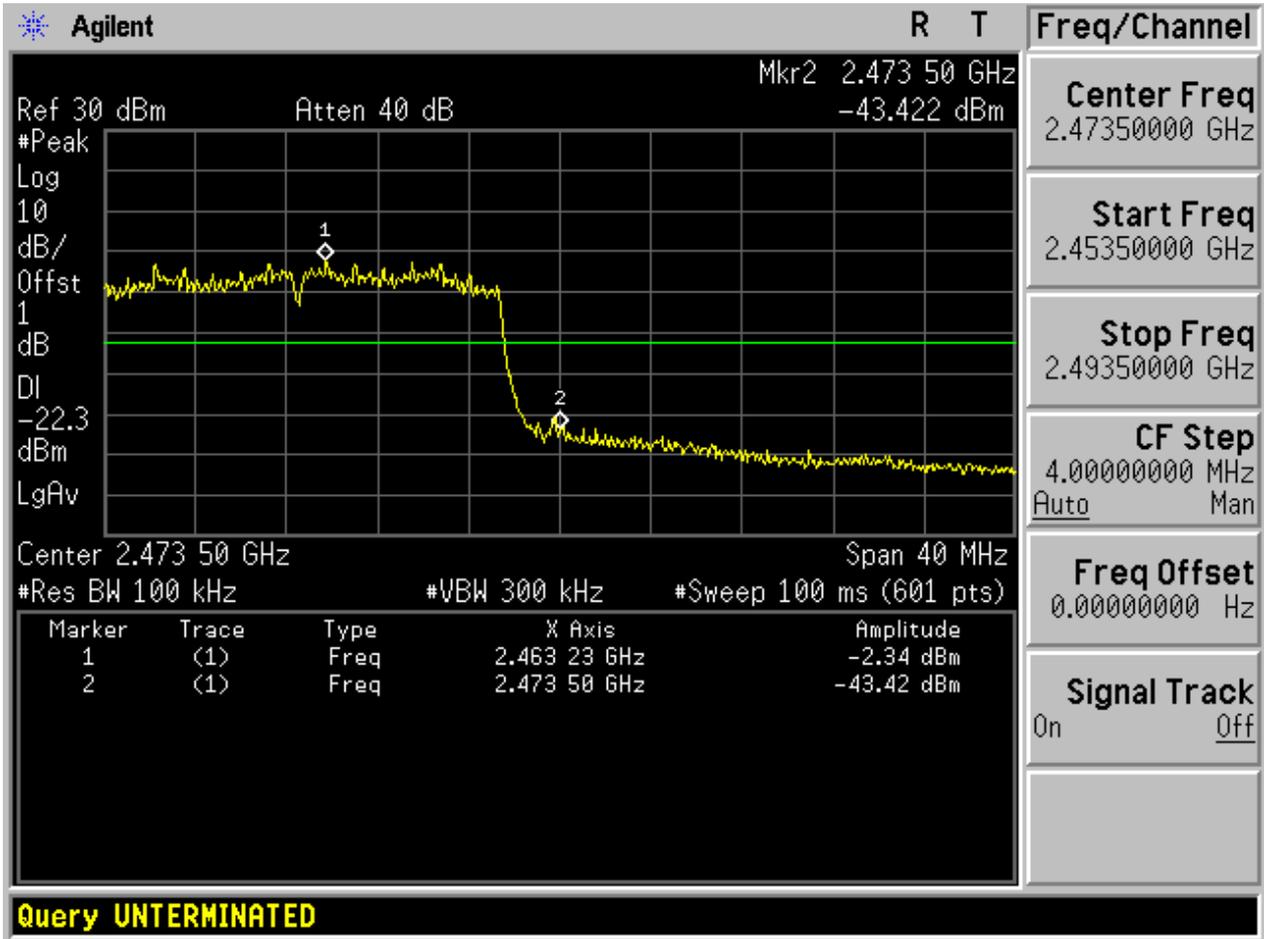
2.9 11N20_L@Ant 1



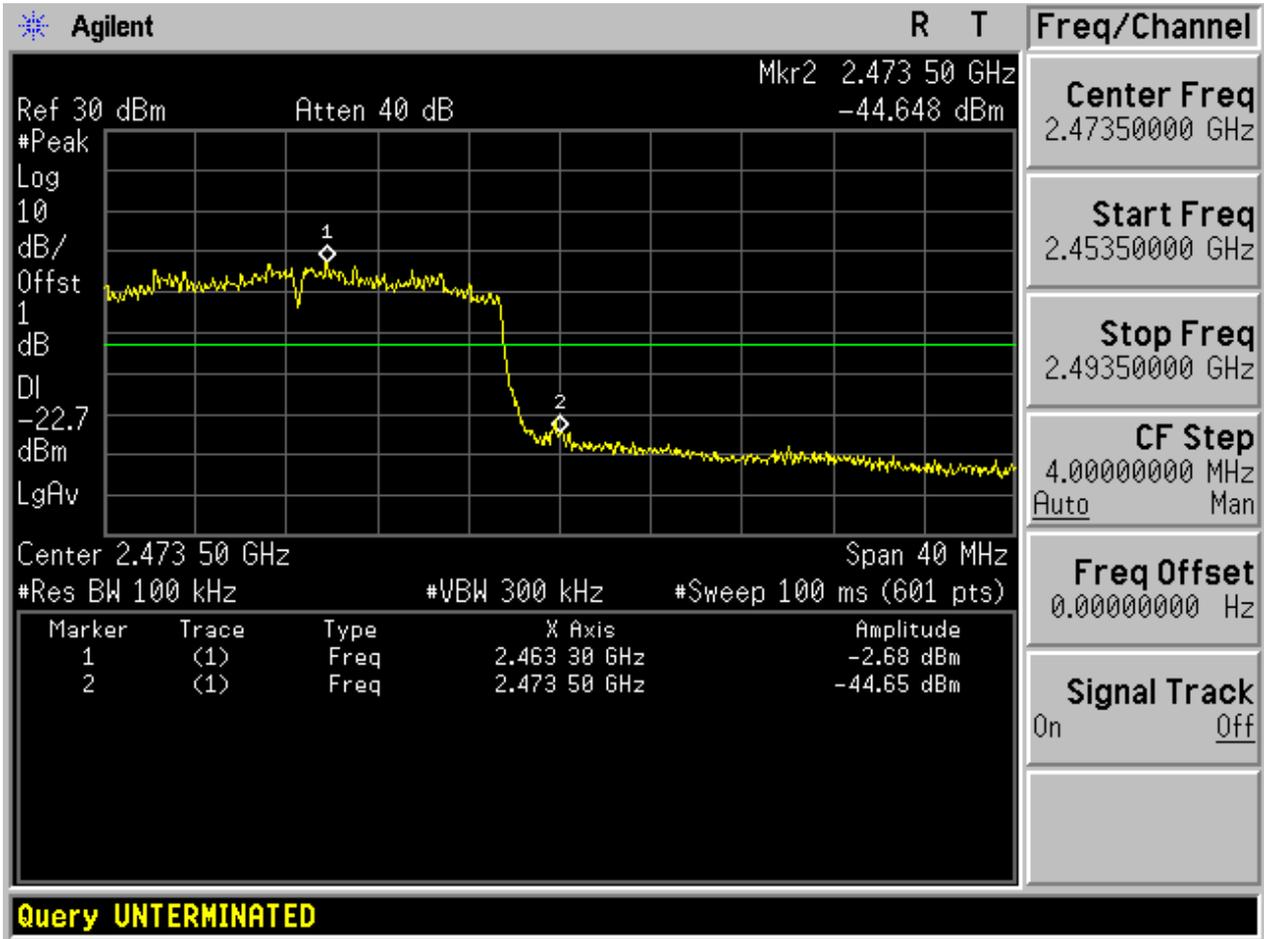
2.10 11N20_L@Ant 2



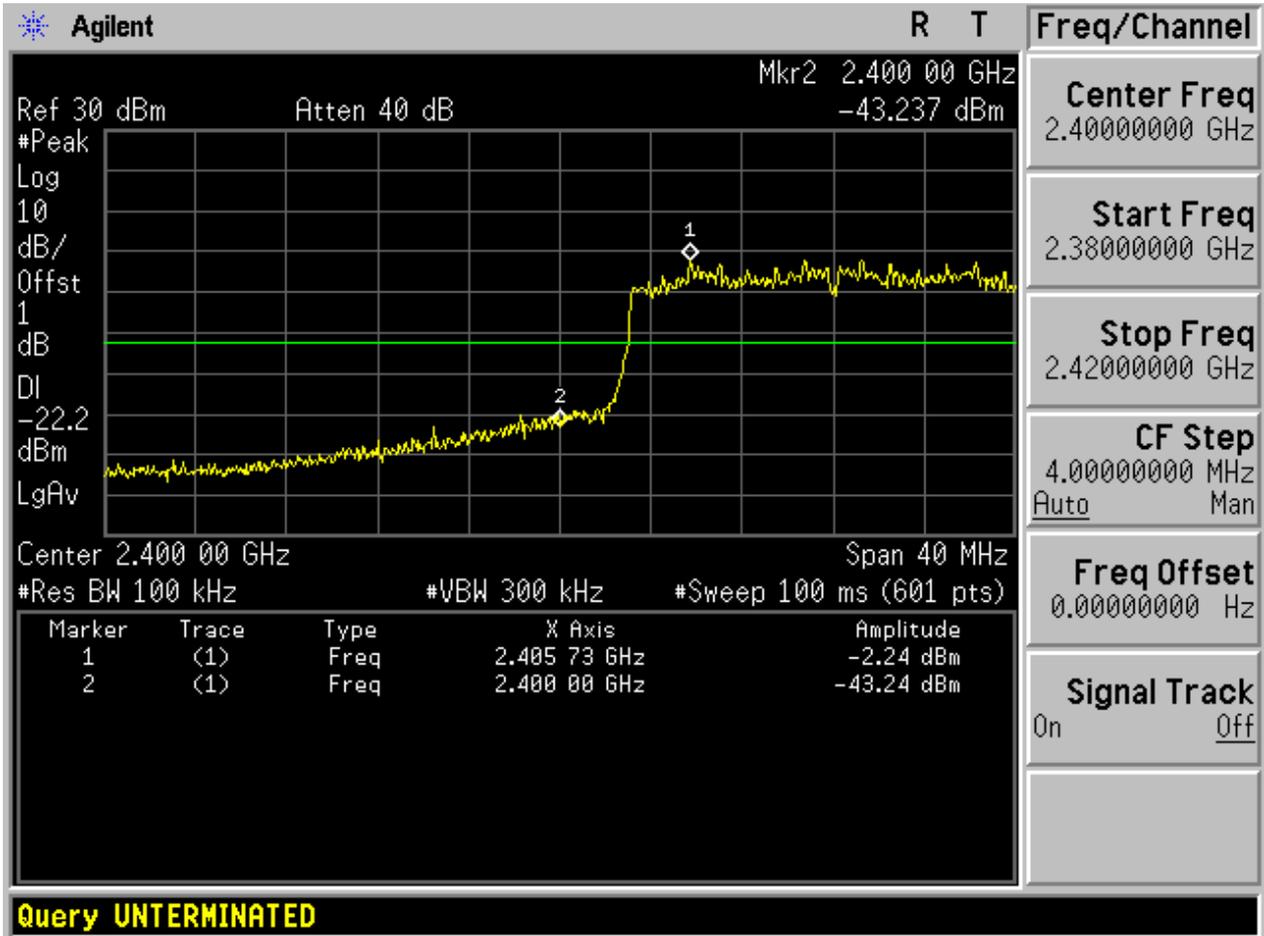
2.11 11N20_H@Ant 1



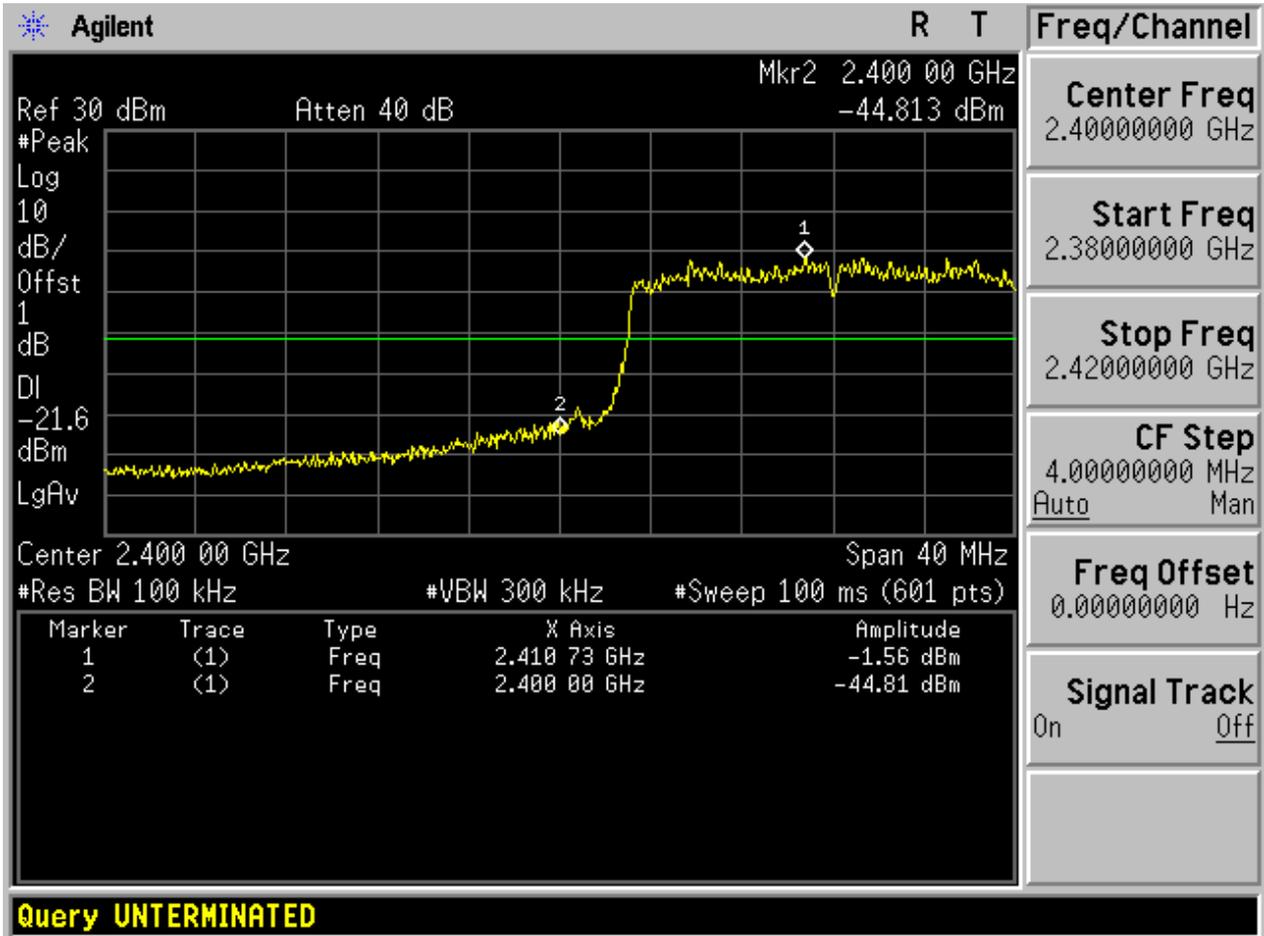
2.12 11N20_H@Ant 2



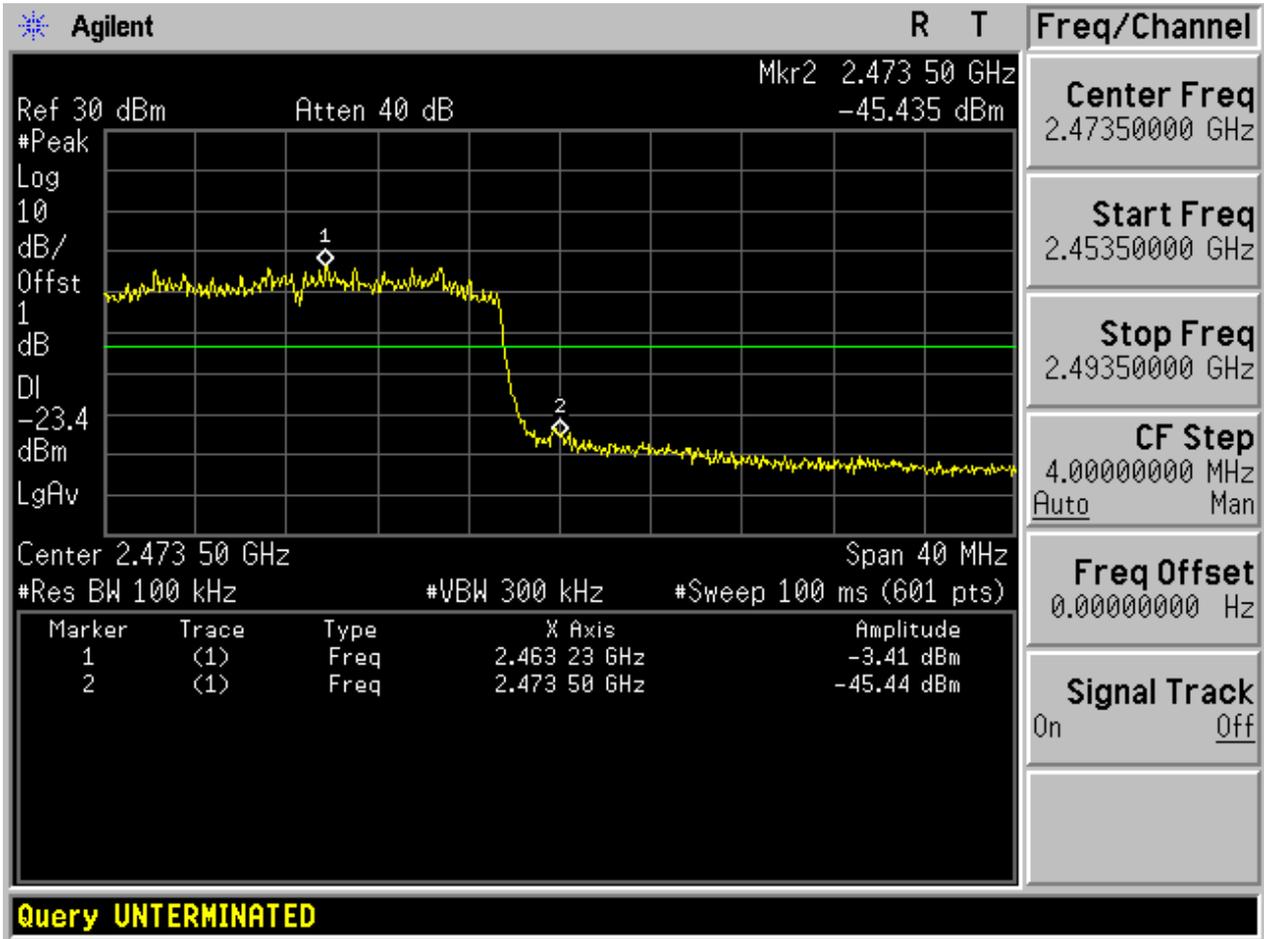
2.13 11N20m_L@Ant 1



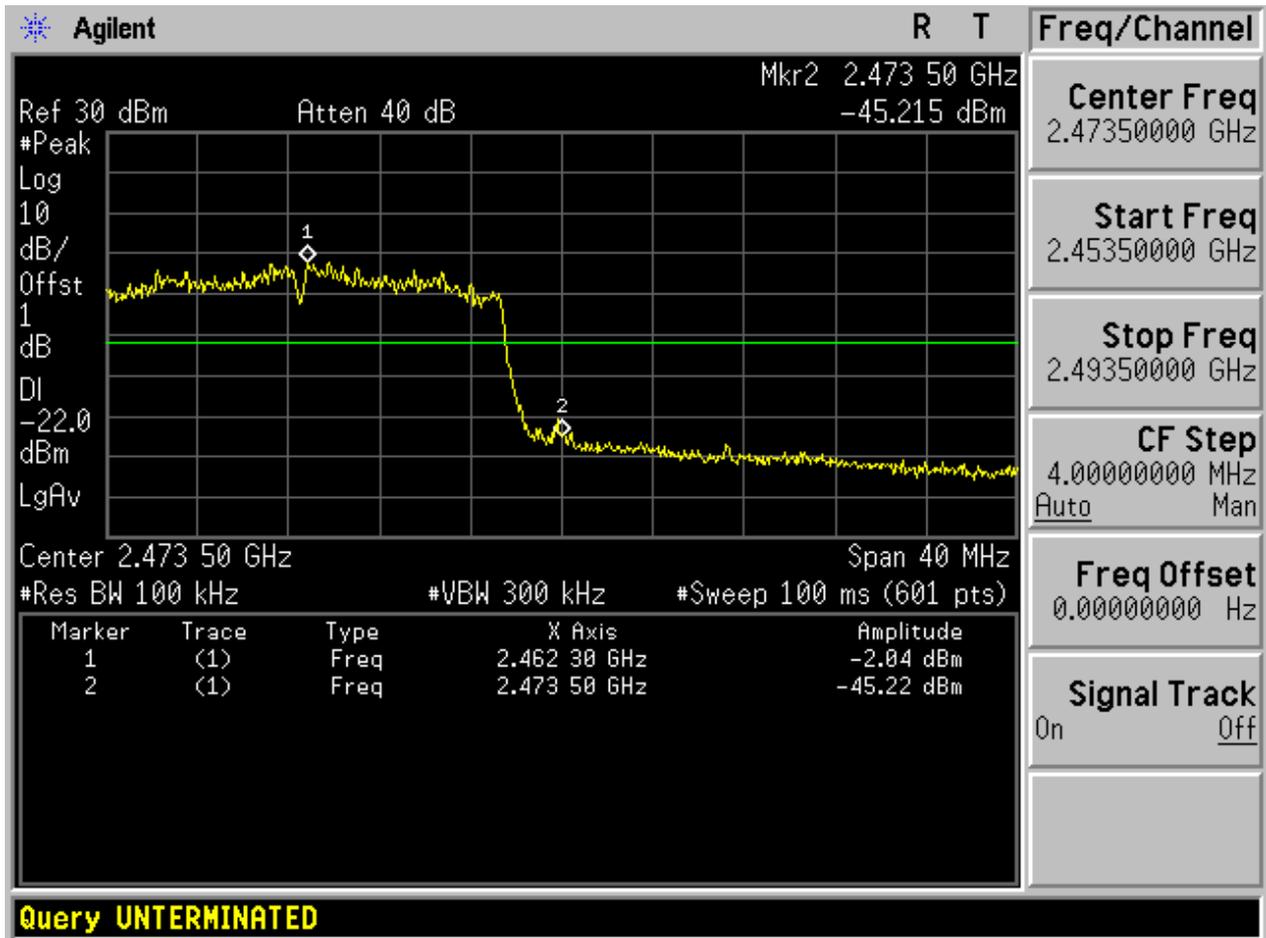
2.14 11N20m_L@Ant 2



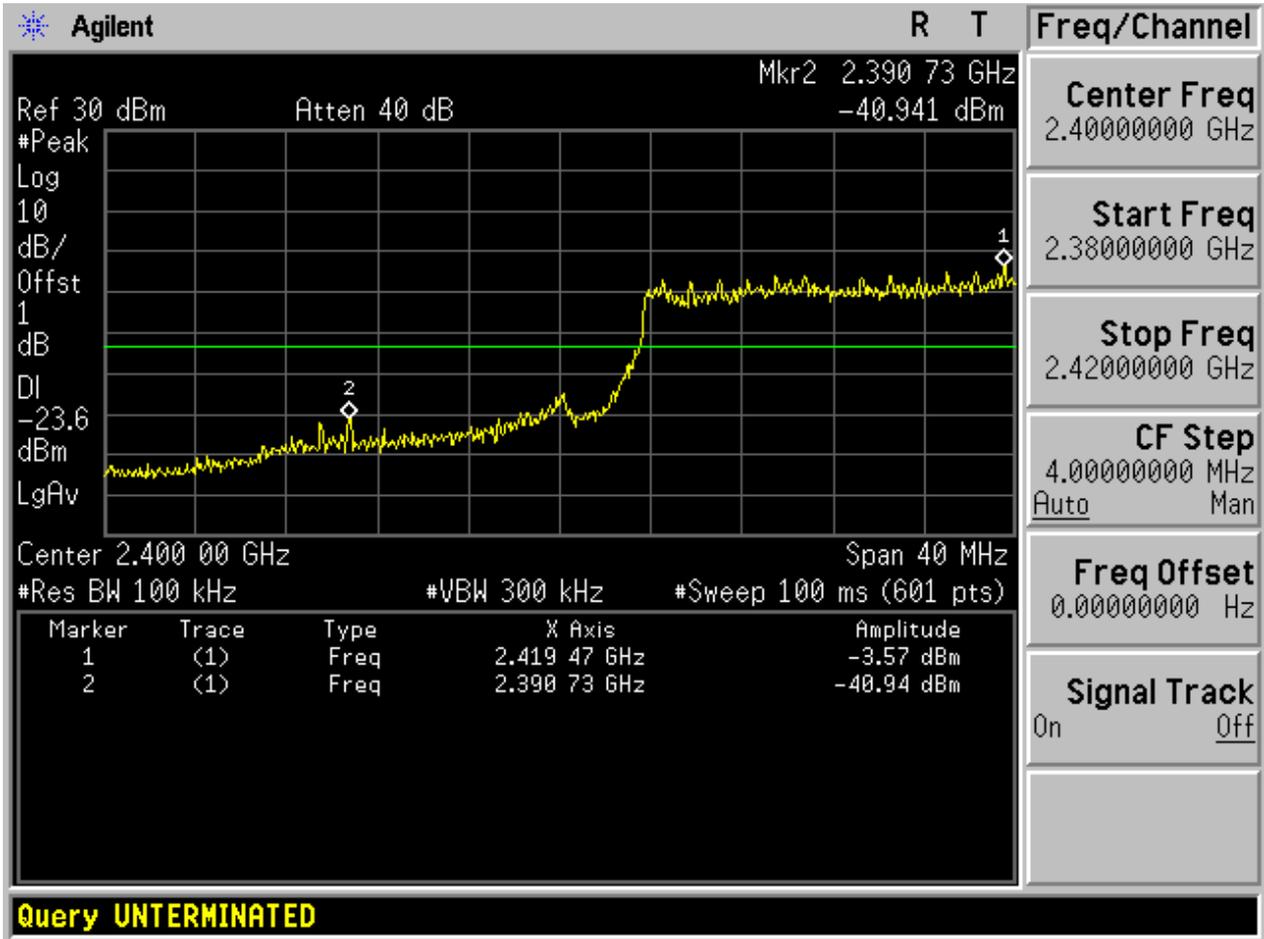
2.15 11N20m_H@Ant 1



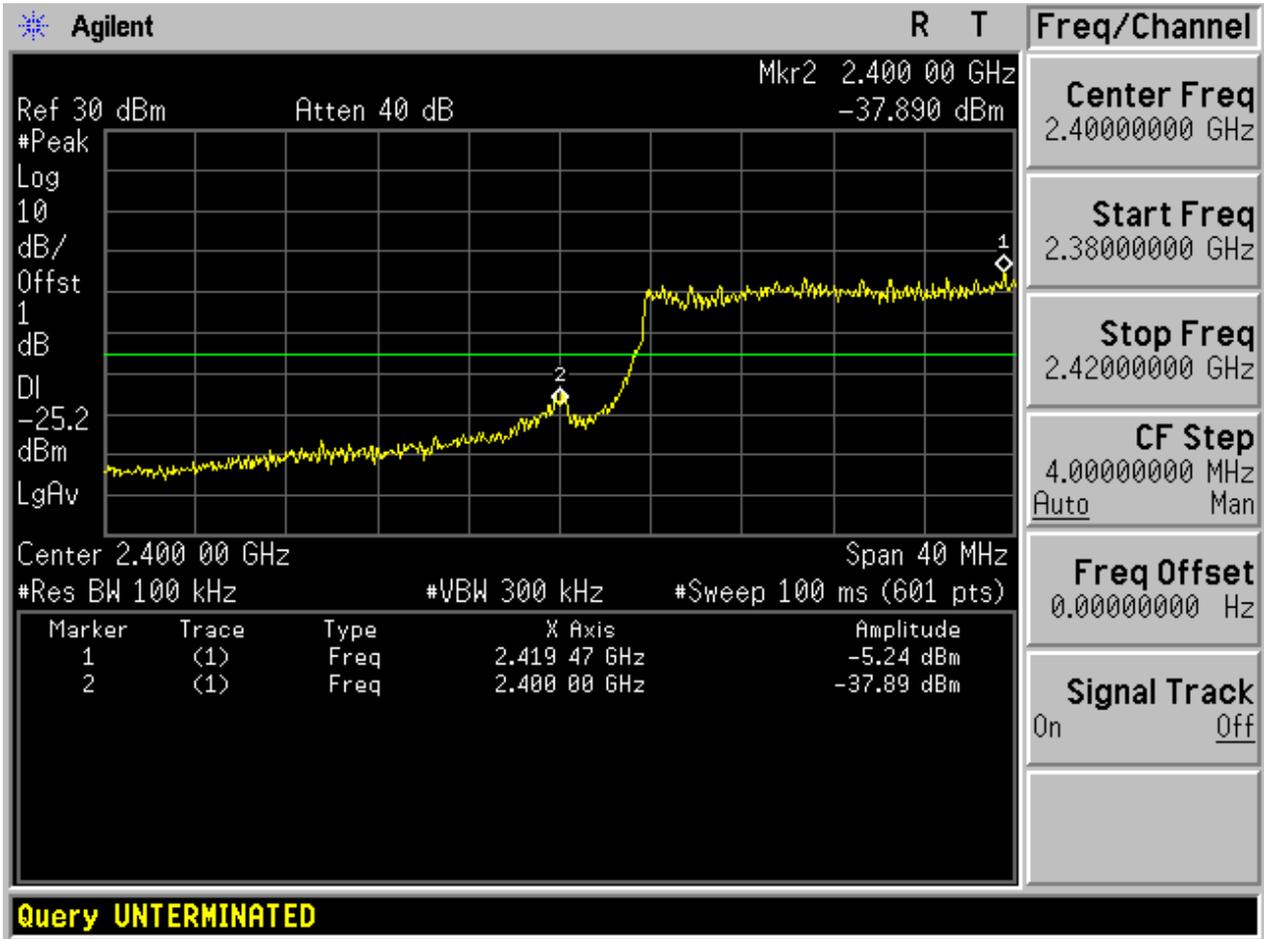
2.16 11N20m_H@Ant 2



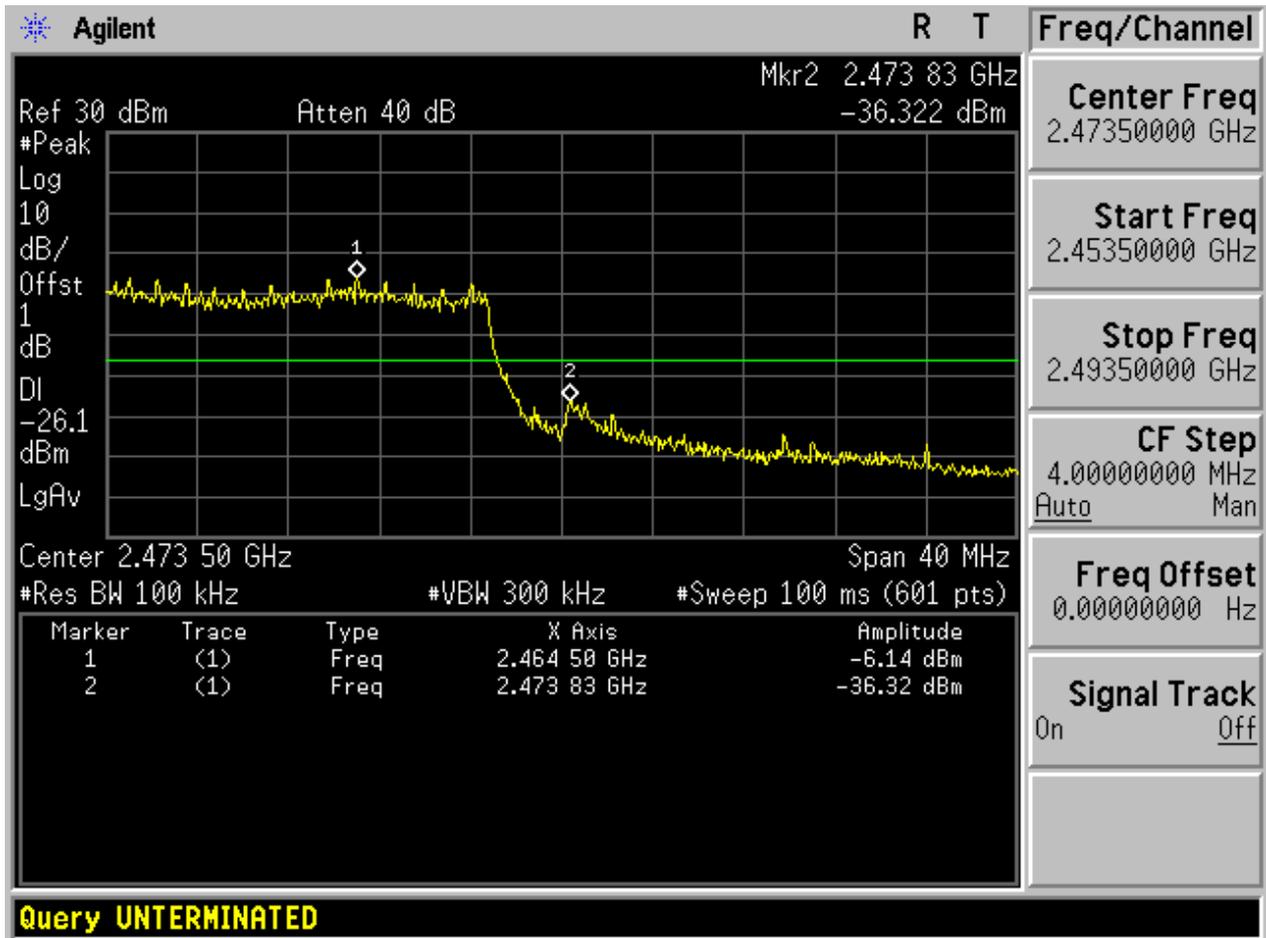
2.17 11N40_L@Ant 1



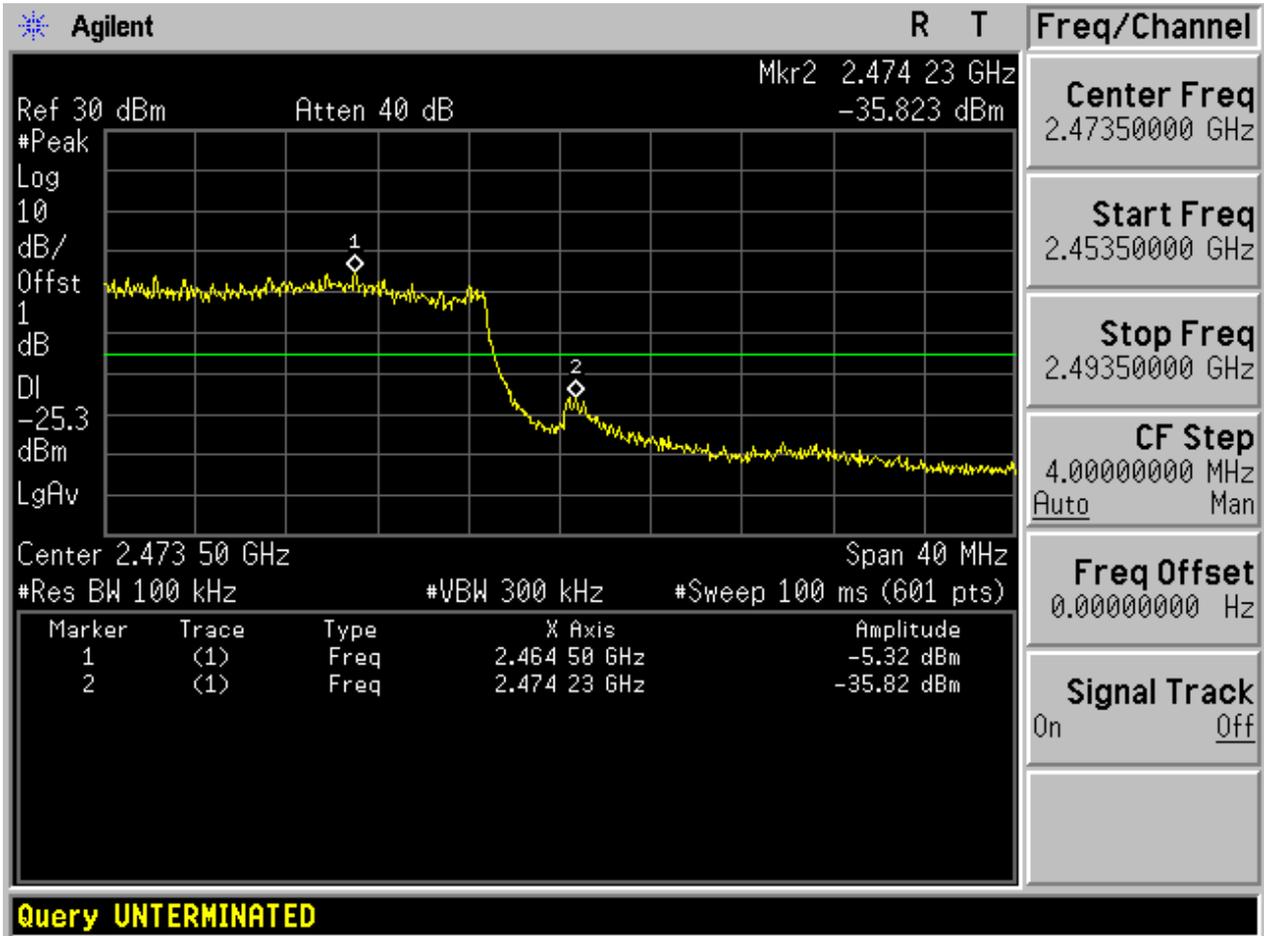
2.18 11N40_L@Ant 2



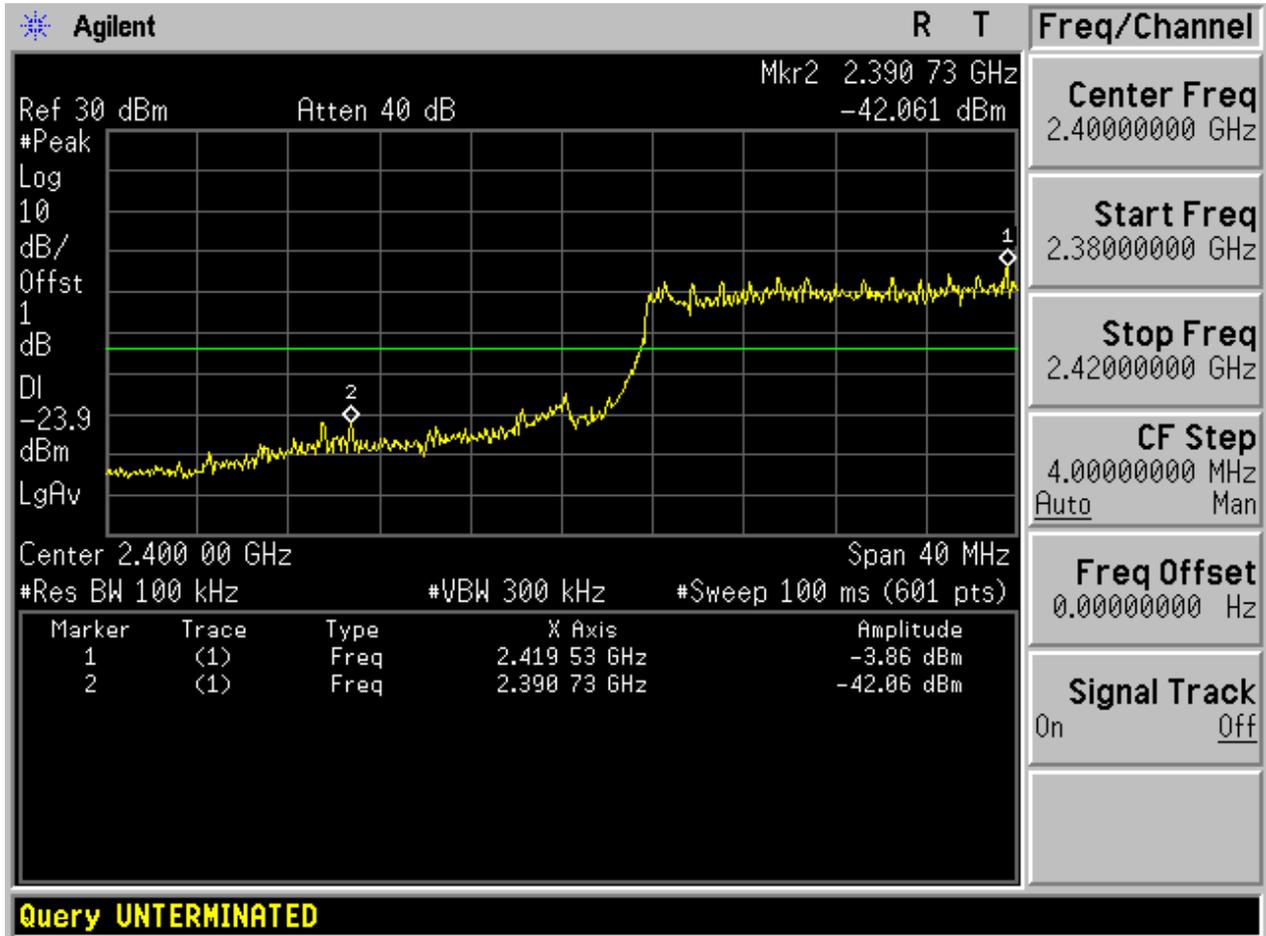
2.19 11N40_H@Ant 1



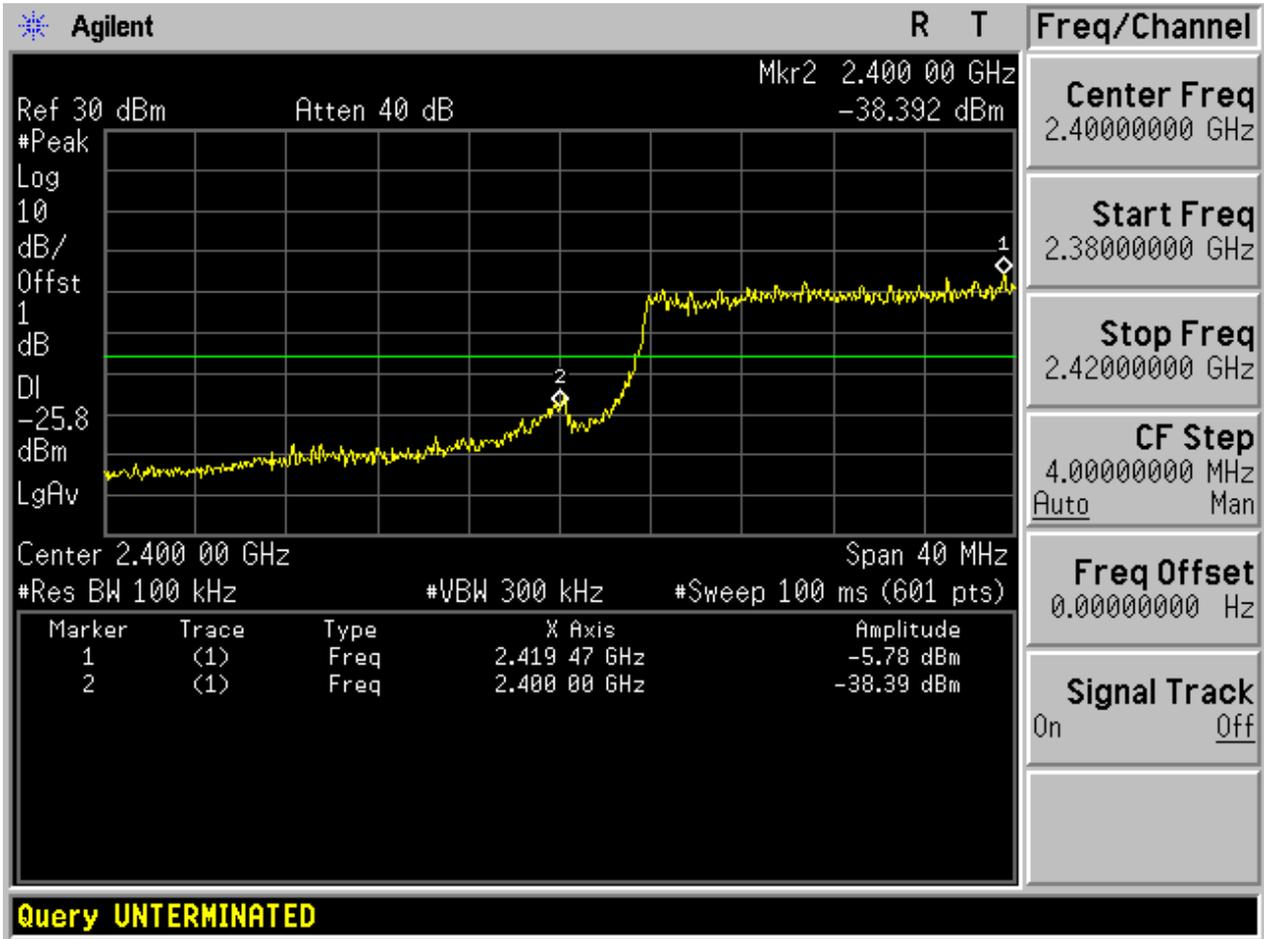
2.20 11N40_H@Ant 2



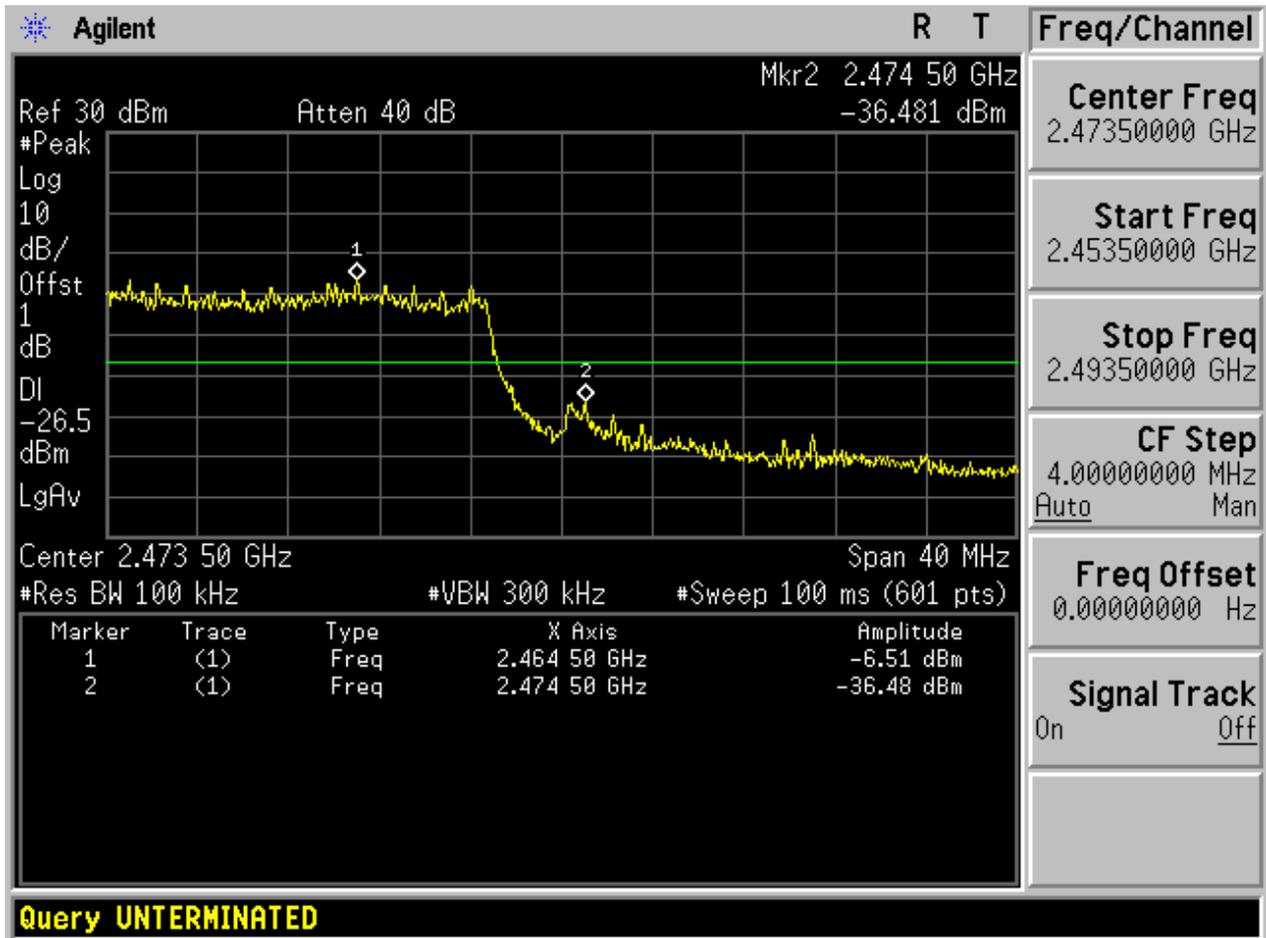
2.21 11N40m_L@Ant 1



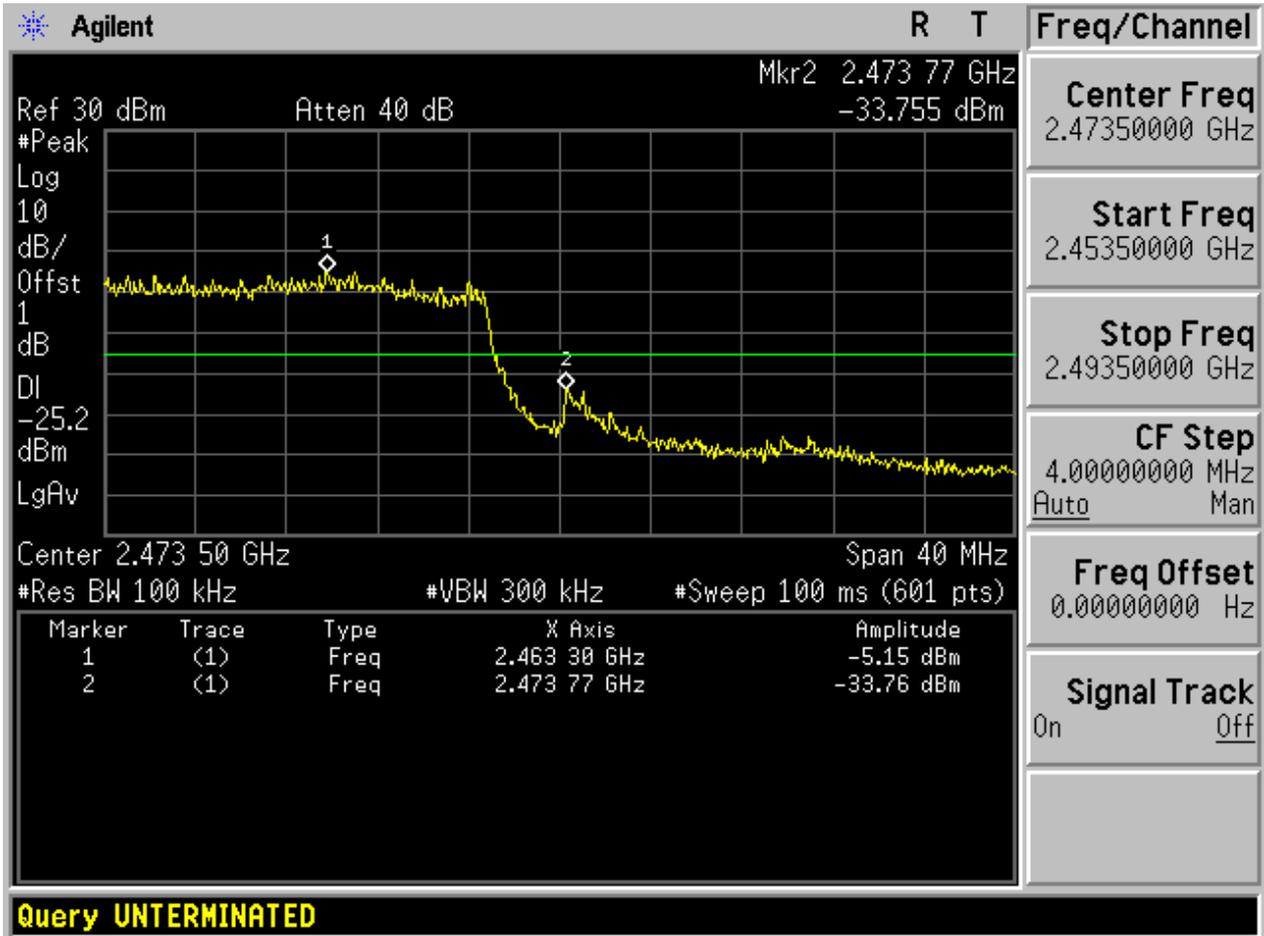
2.22 11N40m_L@Ant 2



2.23 11N40m_H@Ant 1



2.24 11N40m_H@Ant 2



Appendix E: Unwanted Emissions into Non-Restricted Frequency

Bands

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" refers 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 $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW [kHz]})$. 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[dBm], see test plots for detailed".

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	Ant 1	3.45	<limit	pass
11B	L	2412	Ant 2	4.08	<limit	pass
11B	M	2437	Ant 1	3.08	<limit	pass
11B	M	2437	Ant 2	3.63	<limit	pass
11B	H	2462	Ant 1	2.61	<limit	pass
11B	H	2462	Ant 2	3.84	<limit	pass
11G	L	2412	Ant 1	0.65	<limit	pass
11G	L	2412	Ant 2	1.58	<limit	pass
11G	M	2437	Ant 1	0.26	<limit	pass
11G	M	2437	Ant 2	1.44	<limit	pass
11G	H	2462	Ant 1	0.34	<limit	pass
11G	H	2462	Ant 2	1.55	<limit	pass
11N20	L	2412	Ant 1	-1.64	<limit	pass
11N20	L	2412	Ant 2	-1.72	<limit	pass
11N20	M	2437	Ant 1	-1.07	<limit	pass
11N20	M	2437	Ant 2	-1.40	<limit	pass
11N20	H	2462	Ant 1	-1.72	<limit	pass

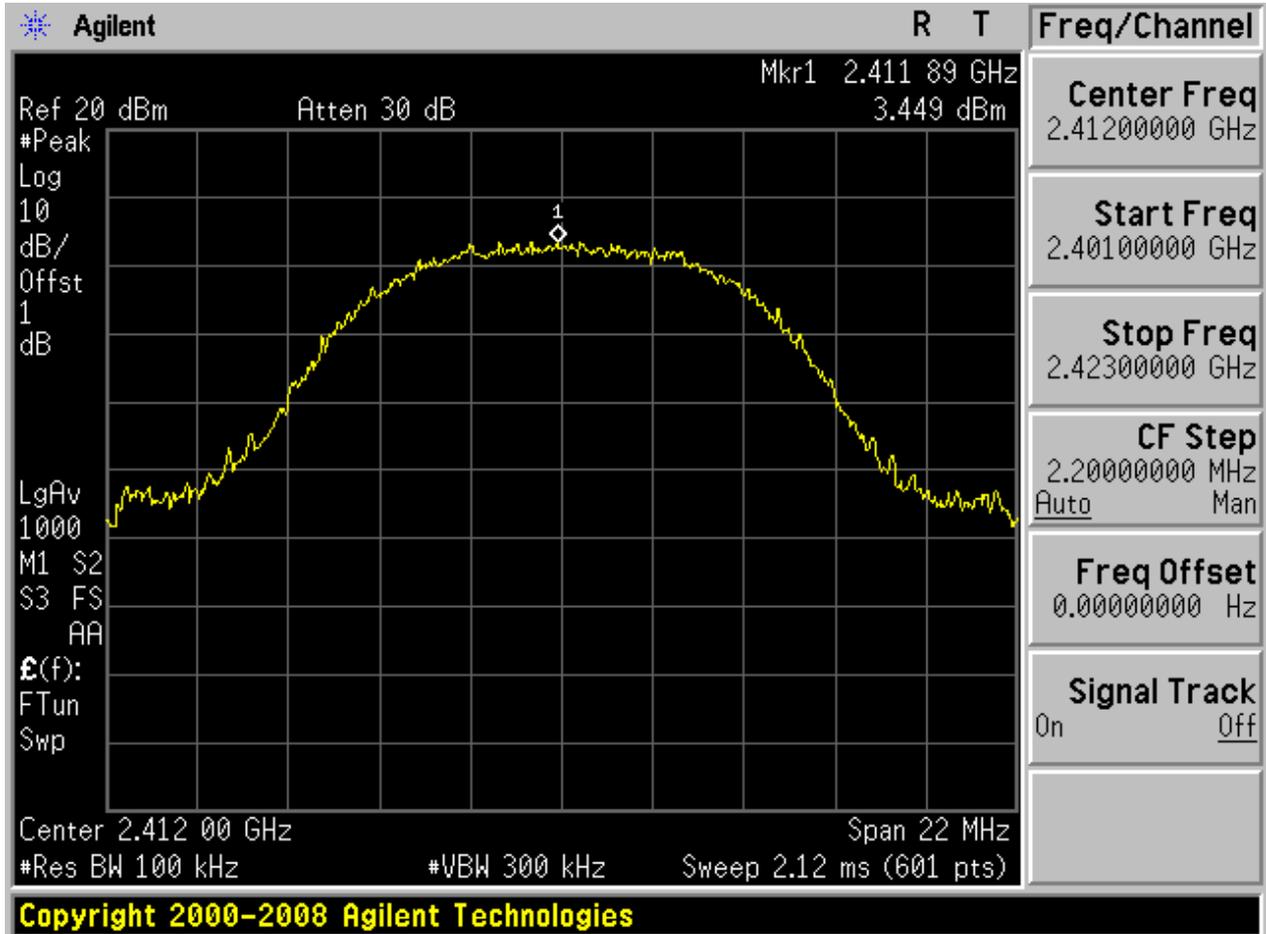


Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	-1.85	<limit	pass
11N20m	L	2412	Ant 1	-1.56	<limit	pass
11N20m	L	2412	Ant 2	-1.83	<limit	pass
11N20m	M	2437	Ant 1	-1.66	<limit	pass
11N20m	M	2437	Ant 2	-1.45	<limit	pass
11N20m	H	2462	Ant 1	-2.46	<limit	pass
11N20m	H	2462	Ant 2	-1.46	<limit	pass
11N40	L	2422	Ant 1	-3.38	<limit	pass
11N40	L	2422	Ant 2	-4.76	<limit	pass
11N40	M	2437	Ant 1	-5.33	<limit	pass
11N40	M	2437	Ant 2	-4.36	<limit	pass
11N40	H	2452	Ant 1	-4.38	<limit	pass
11N40	H	2452	Ant 2	-4.58	<limit	pass
11N40m	L	2422	Ant 1	-4.13	<limit	pass
11N40m	L	2422	Ant 2	-5.66	<limit	pass
11N40m	M	2437	Ant 1	-5.02	<limit	pass
11N40m	M	2437	Ant 2	-3.64	<limit	pass
11N40m	H	2452	Ant 1	-4.80	<limit	pass
11N40m	H	2452	Ant 2	-4.11	<limit	pass

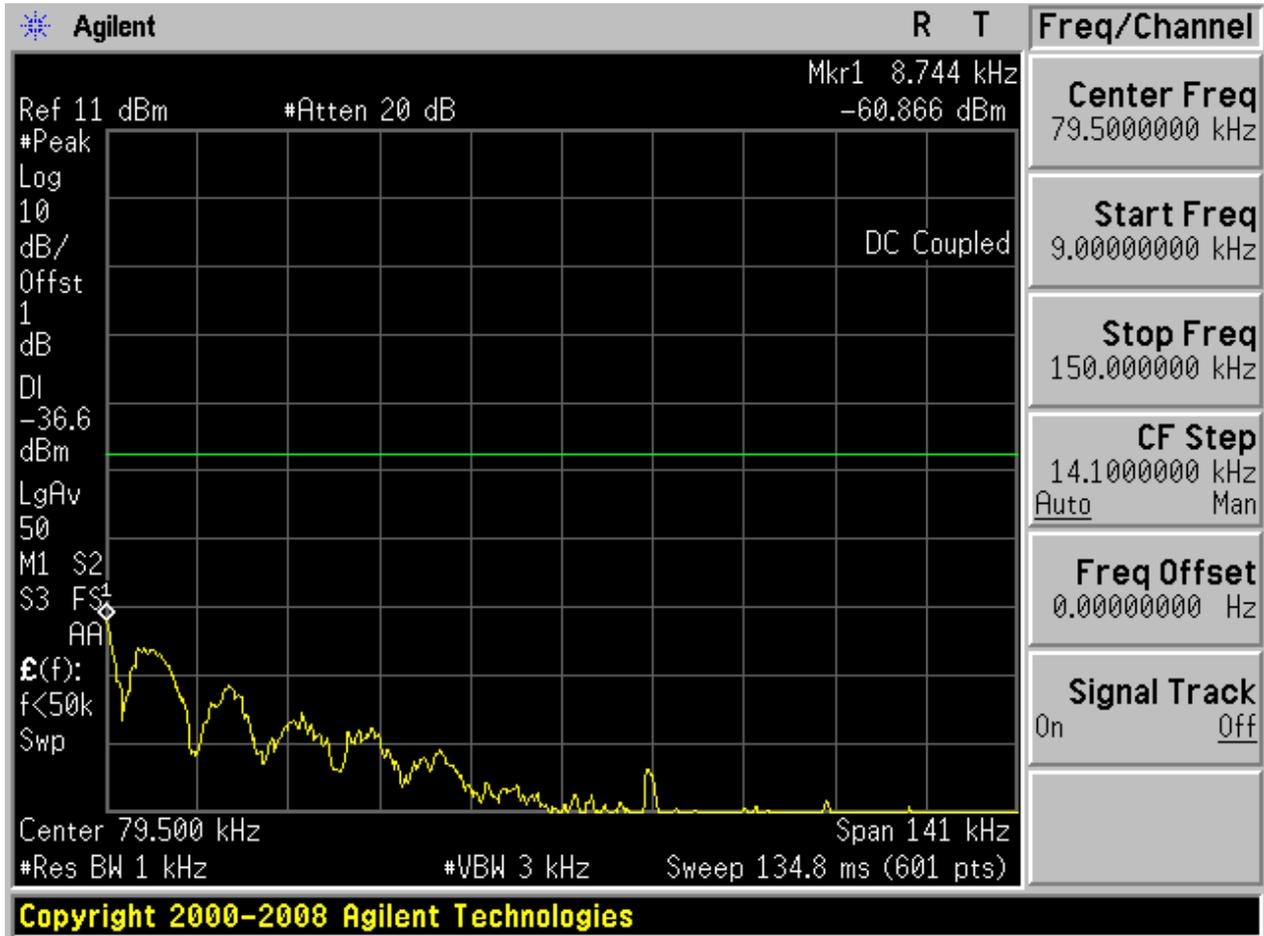
Part II - Test Plots

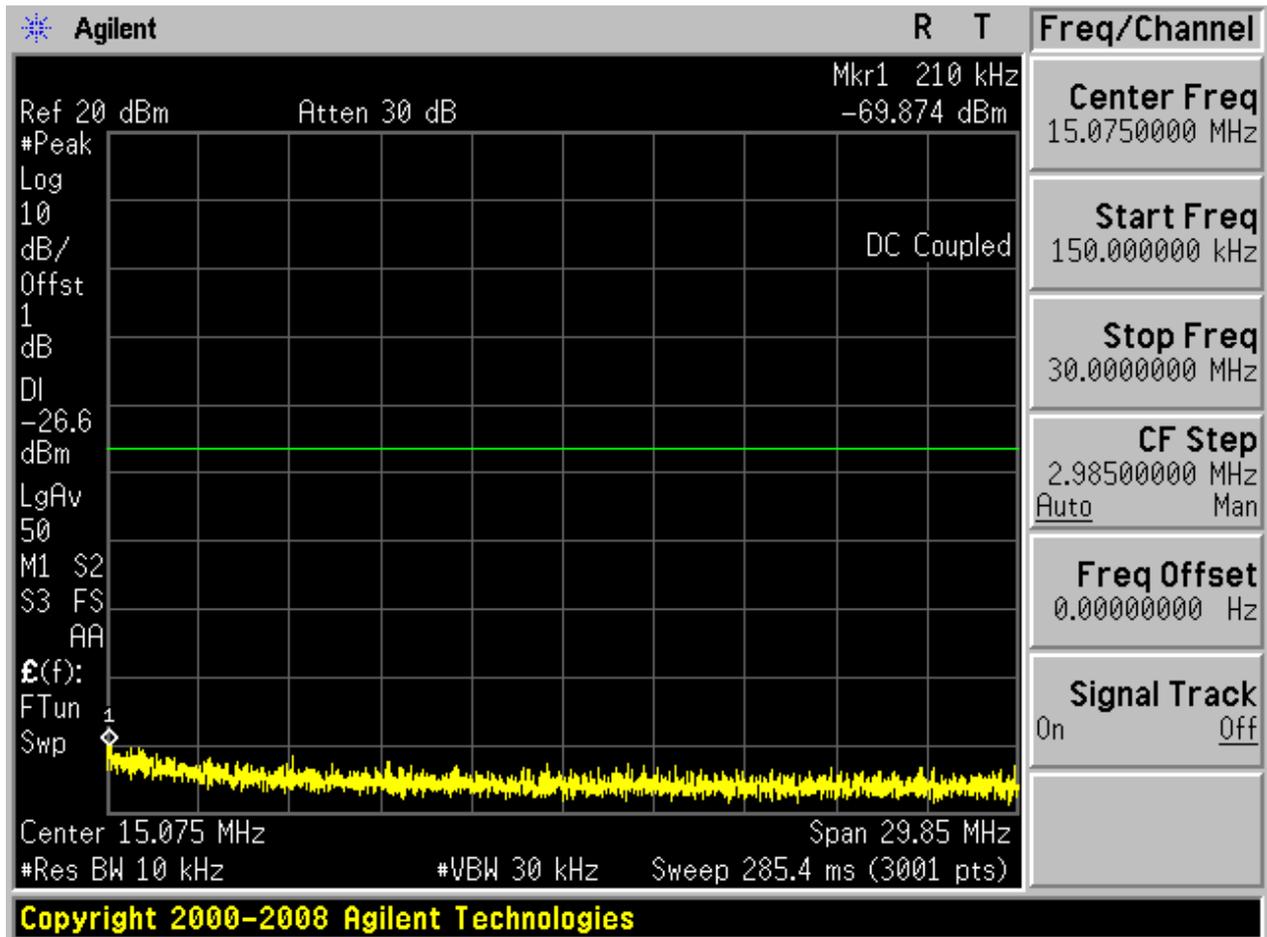
2.1 11B_L@Ant 1

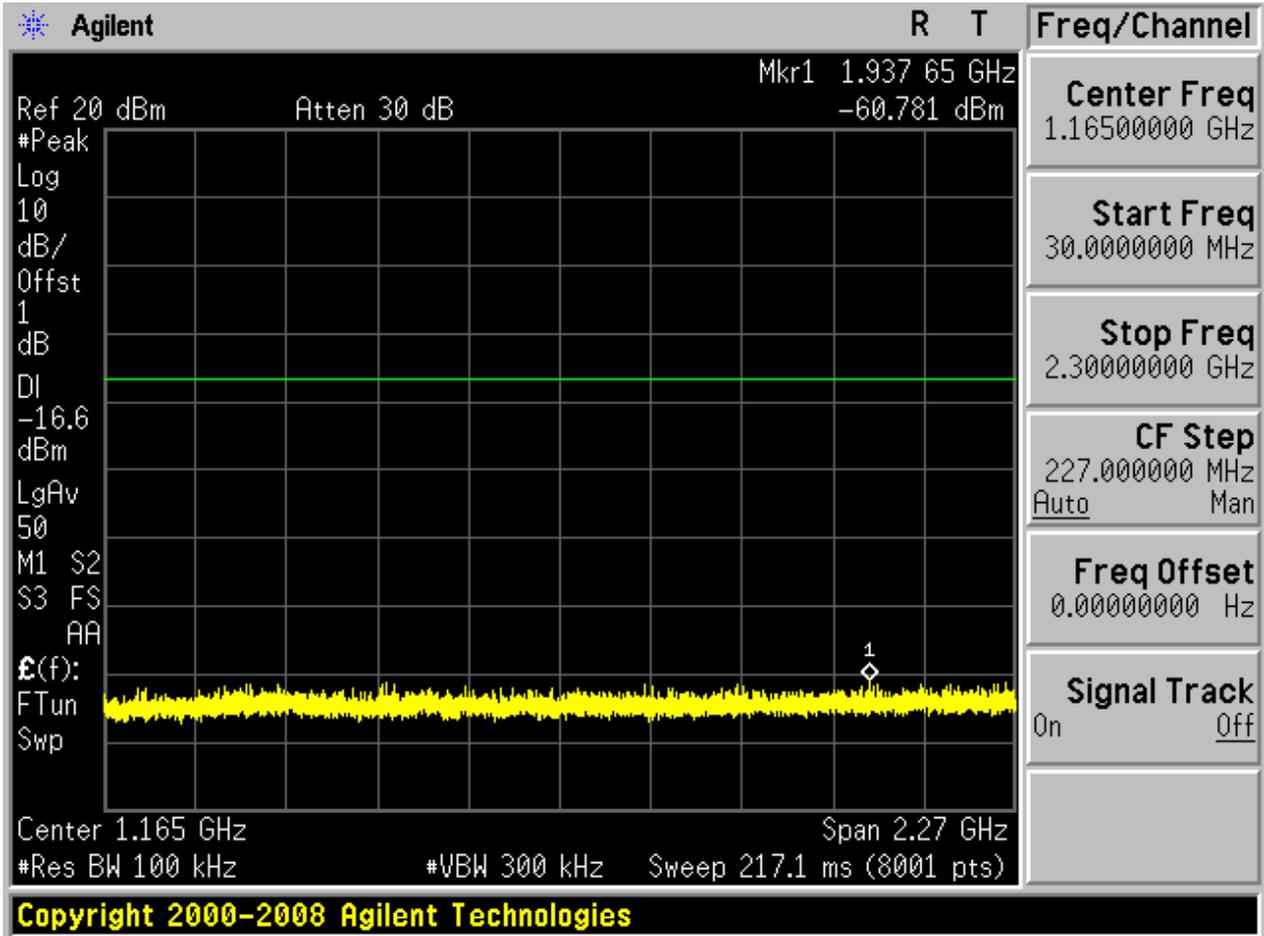
Pref:

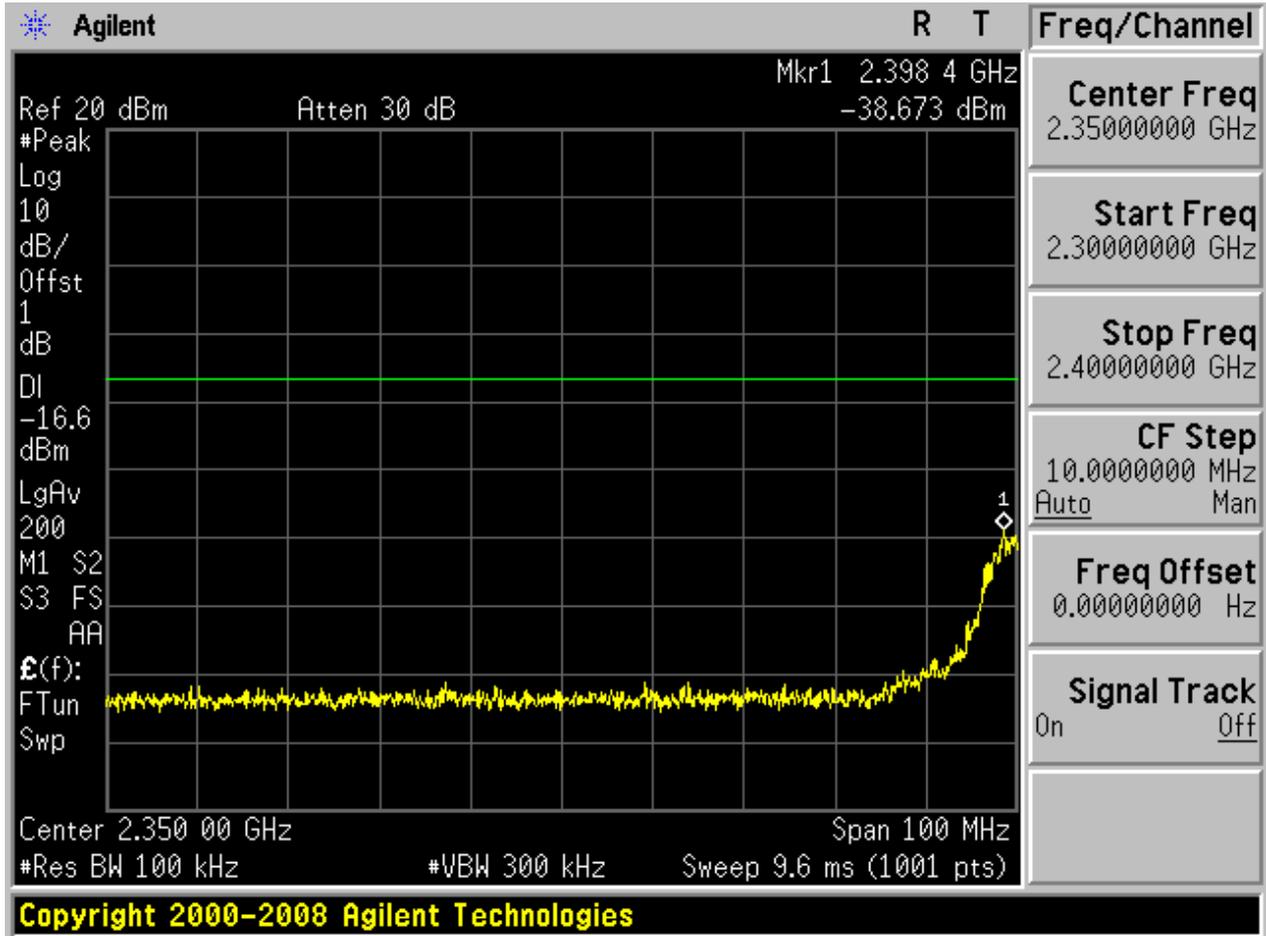


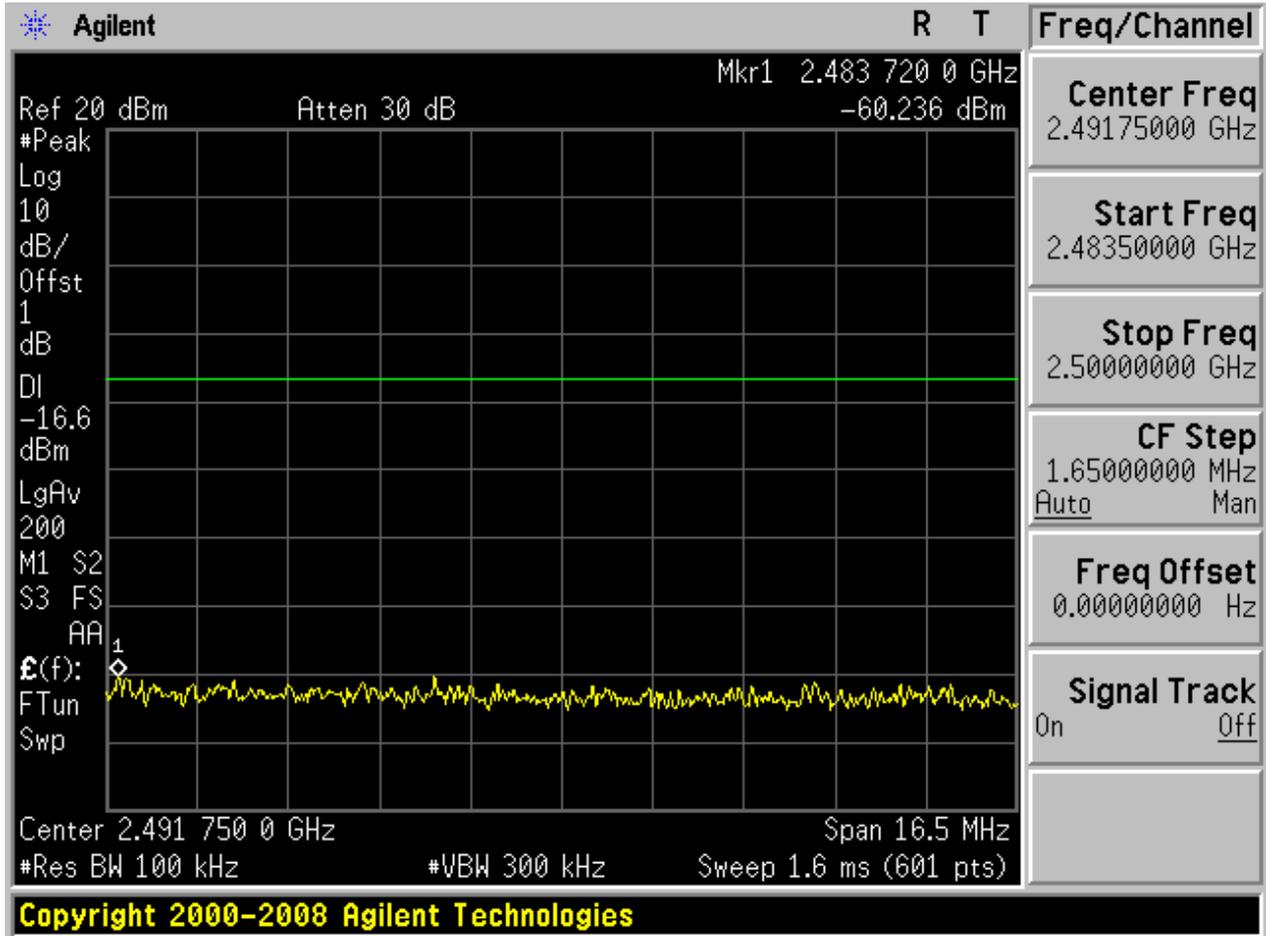
Puw:

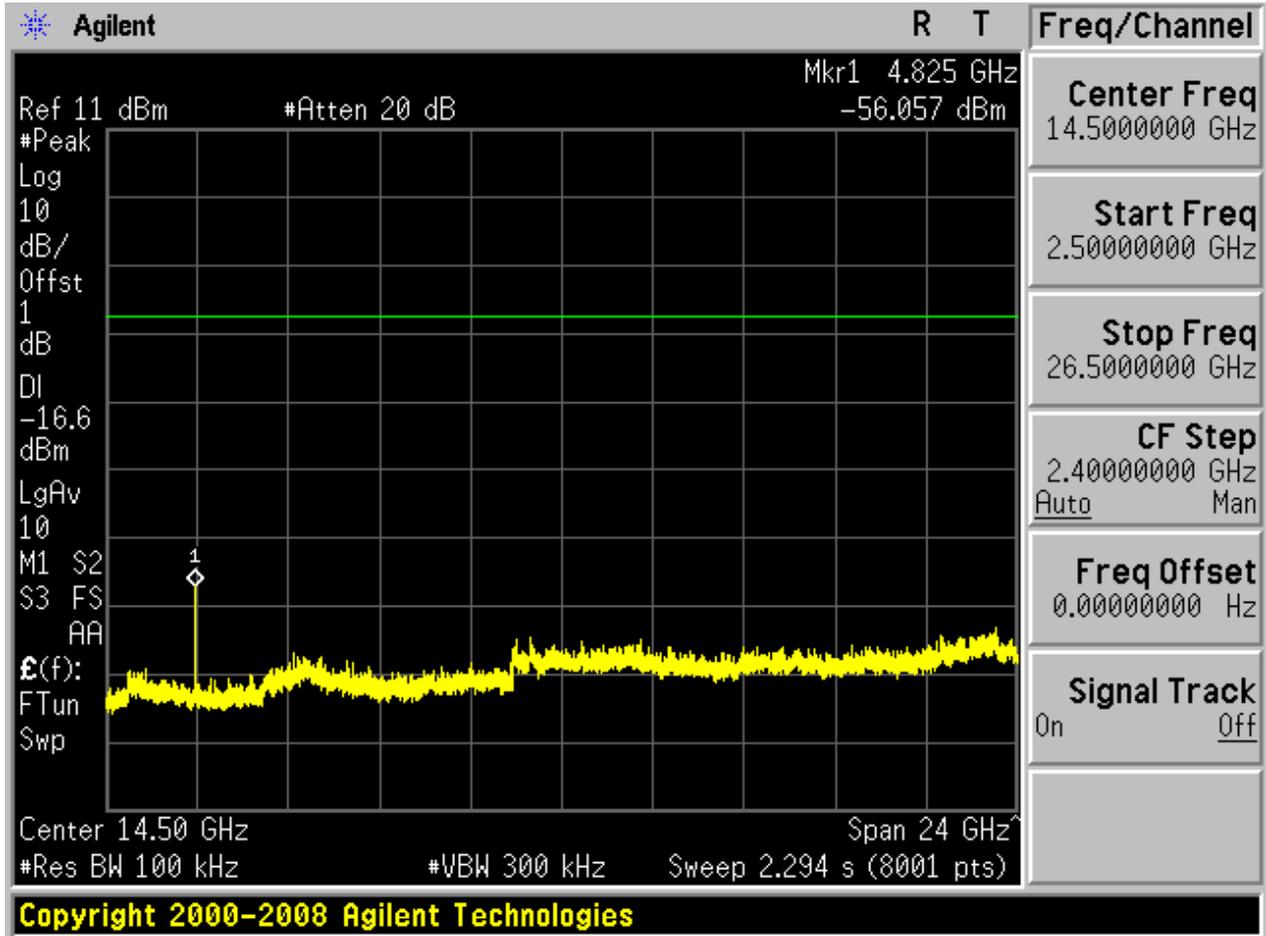






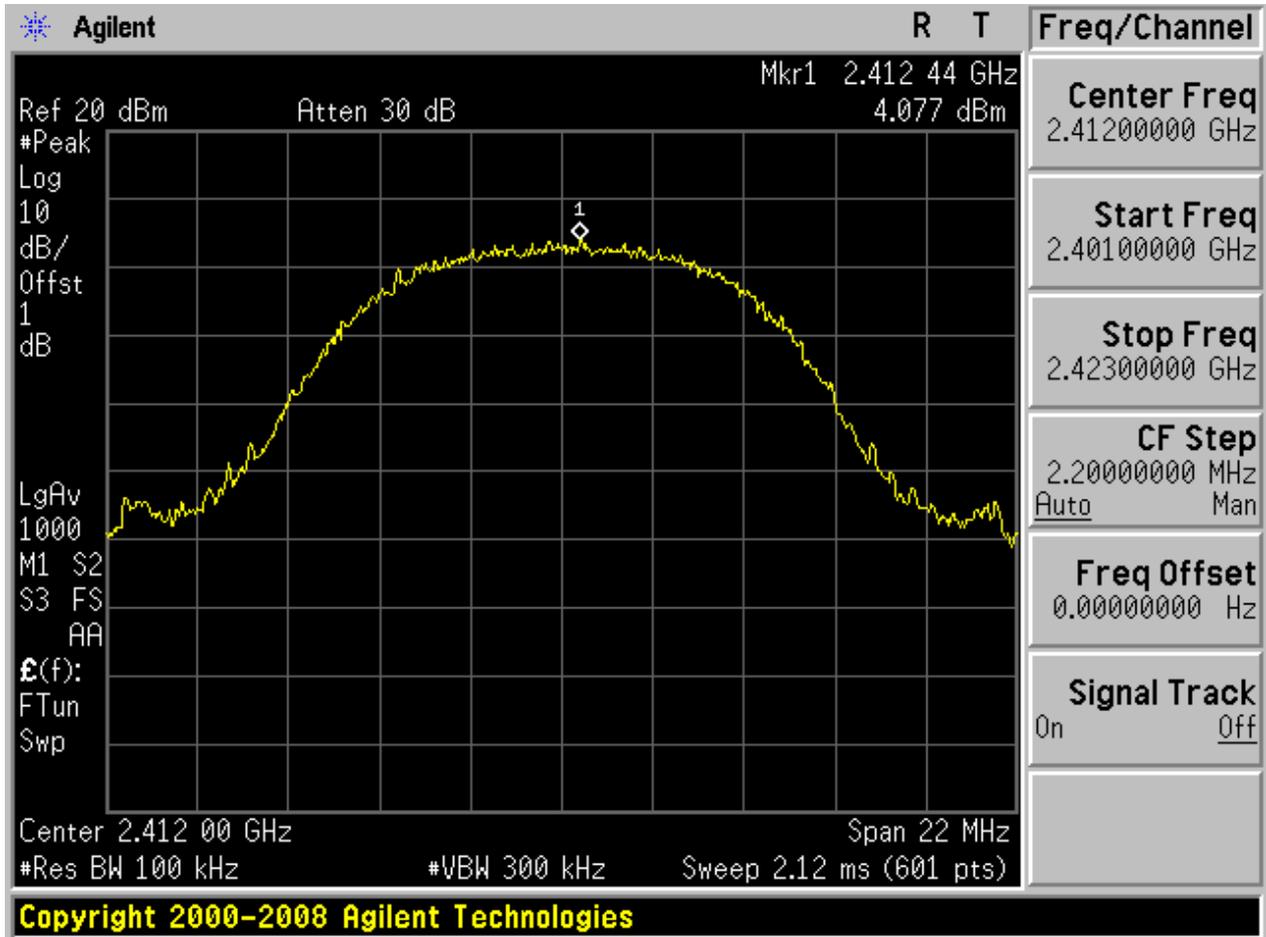






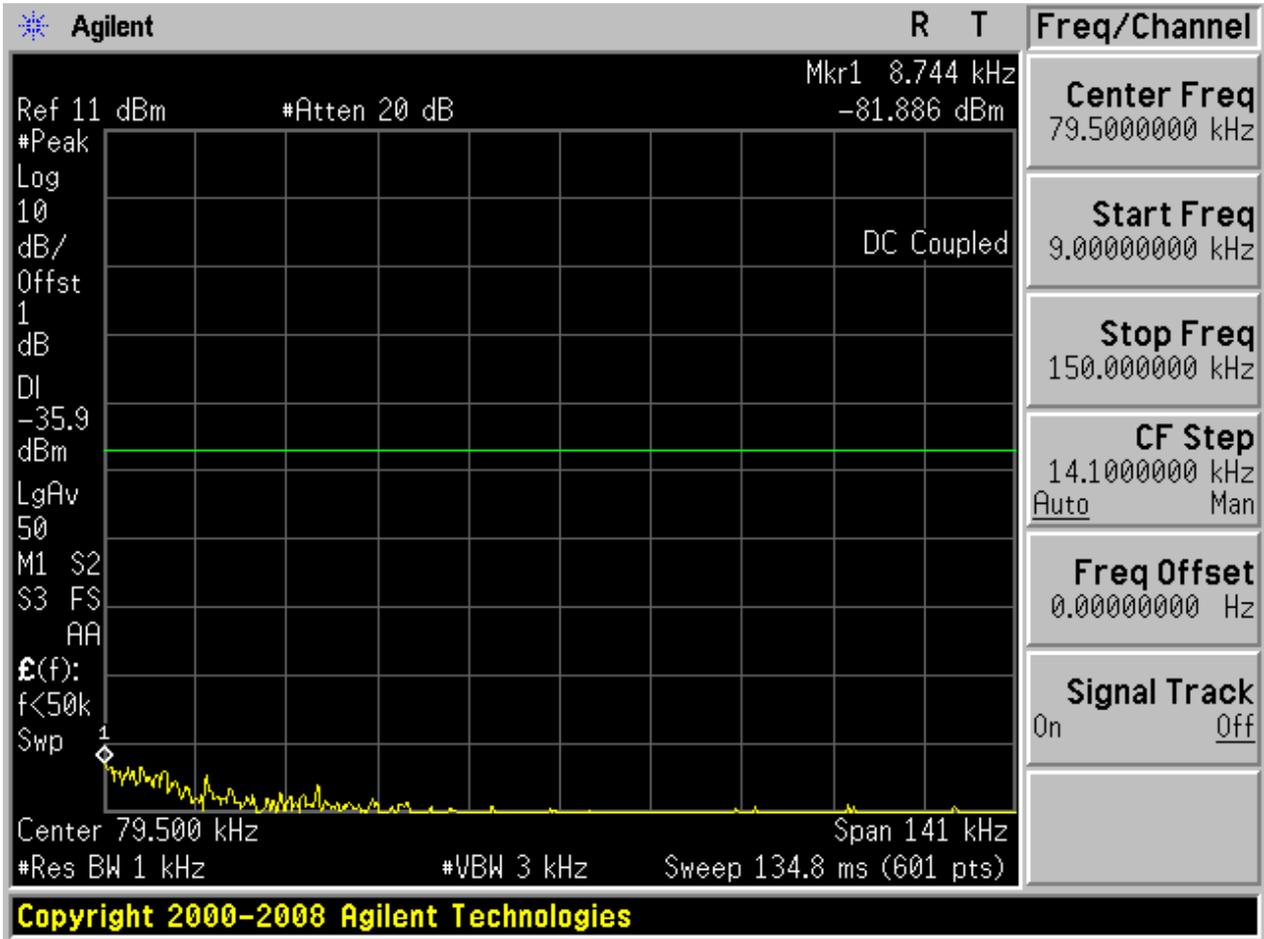
2.2 11B_L@Ant 2

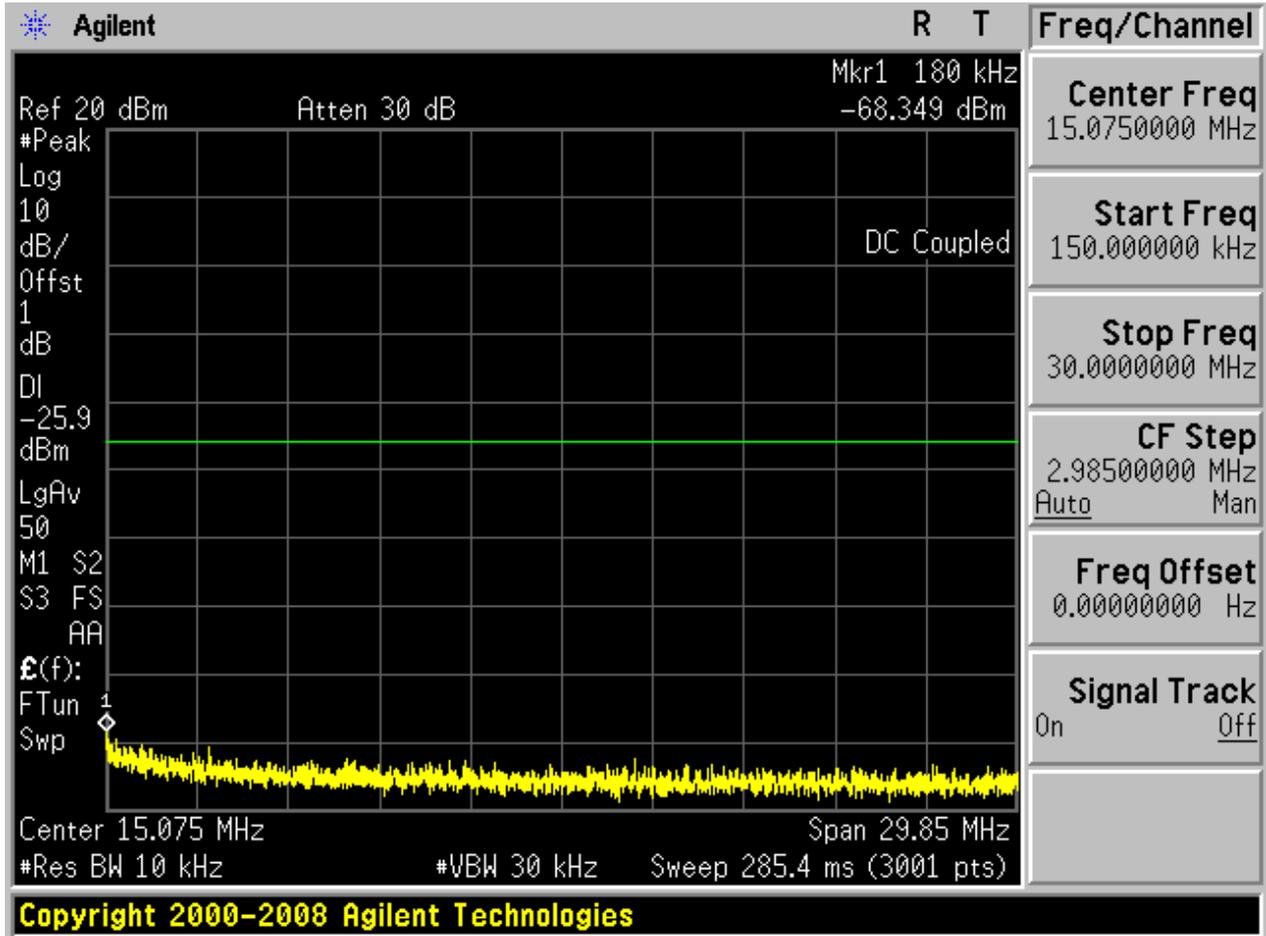
Pref:

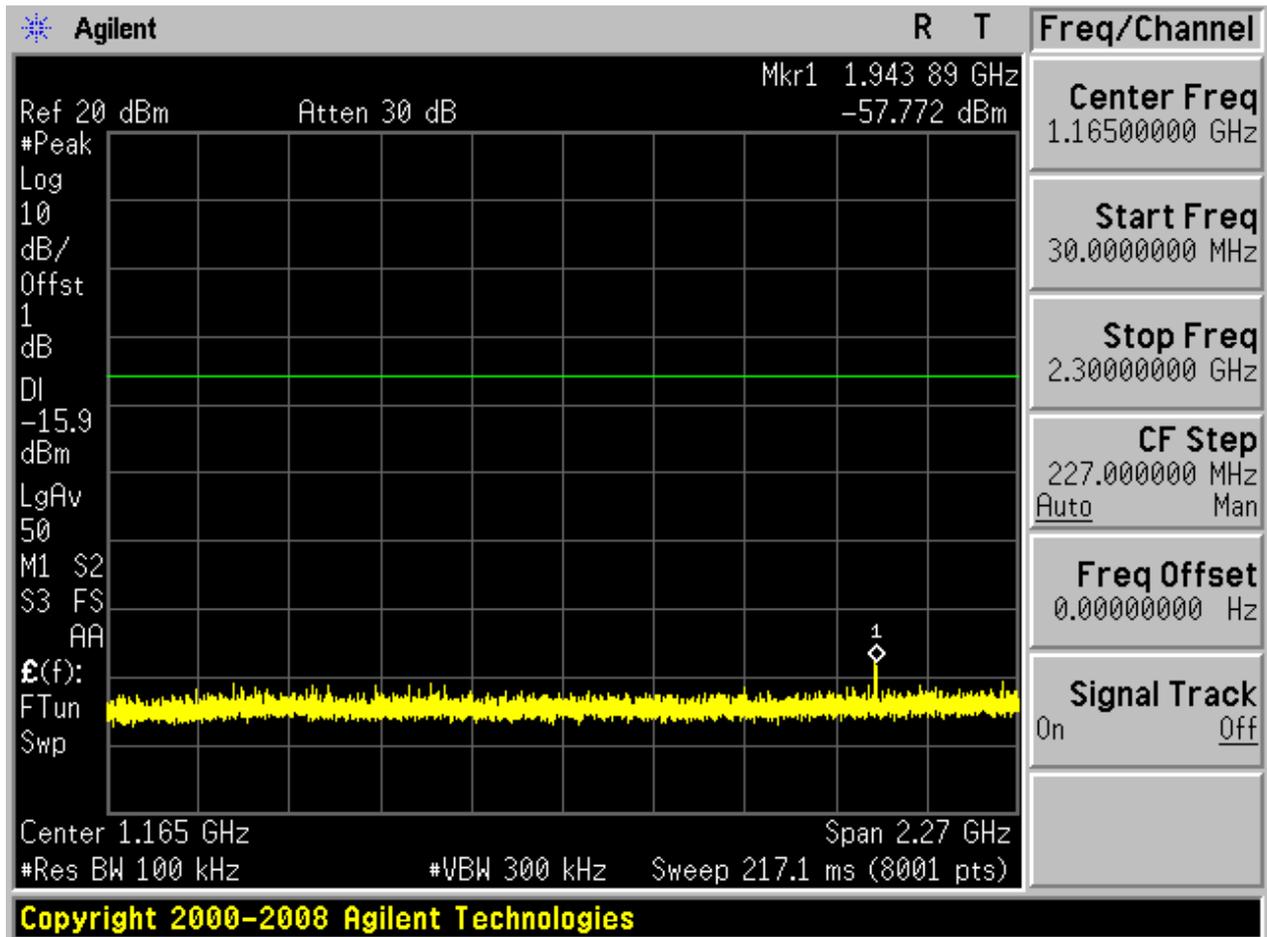


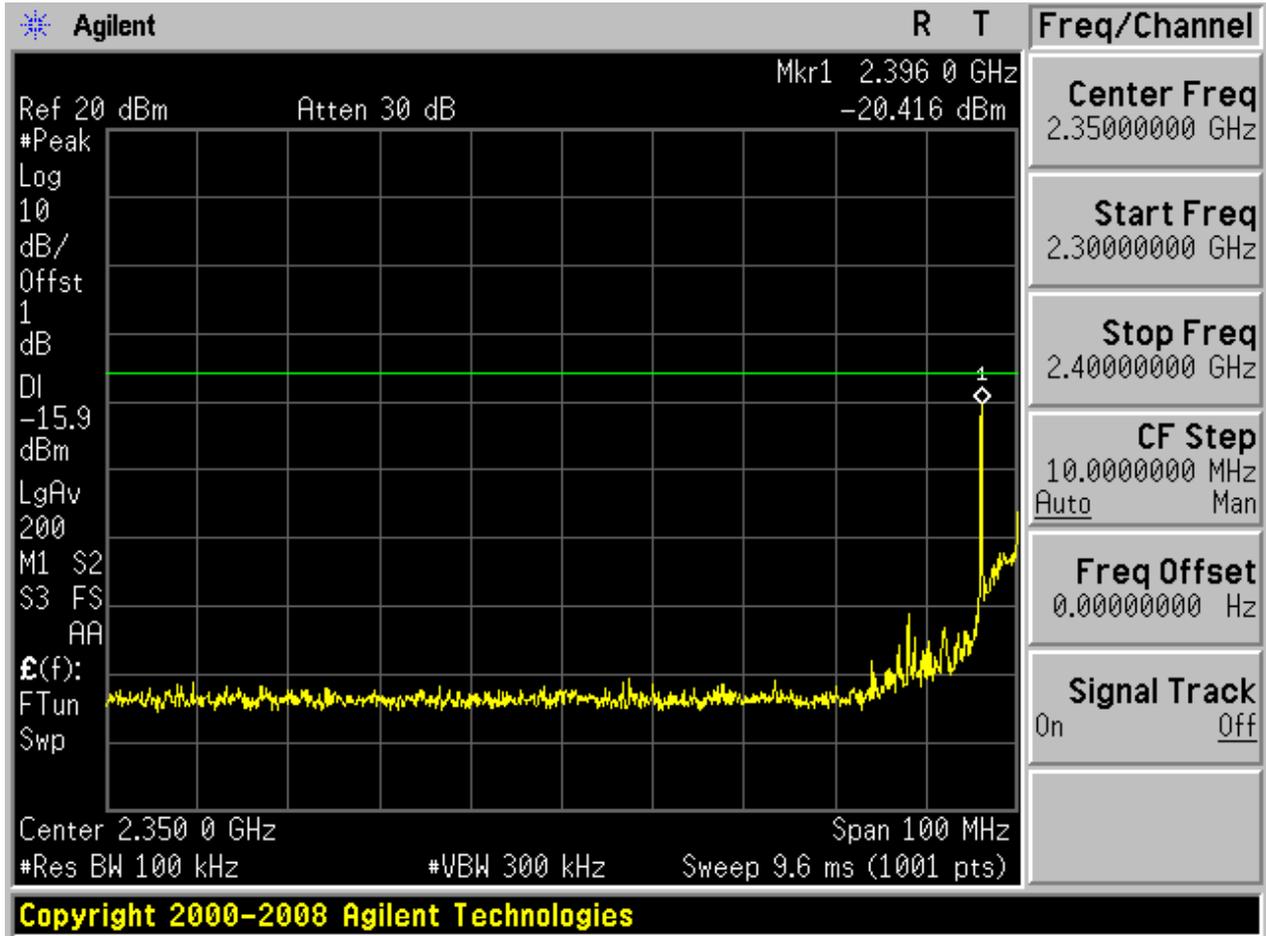


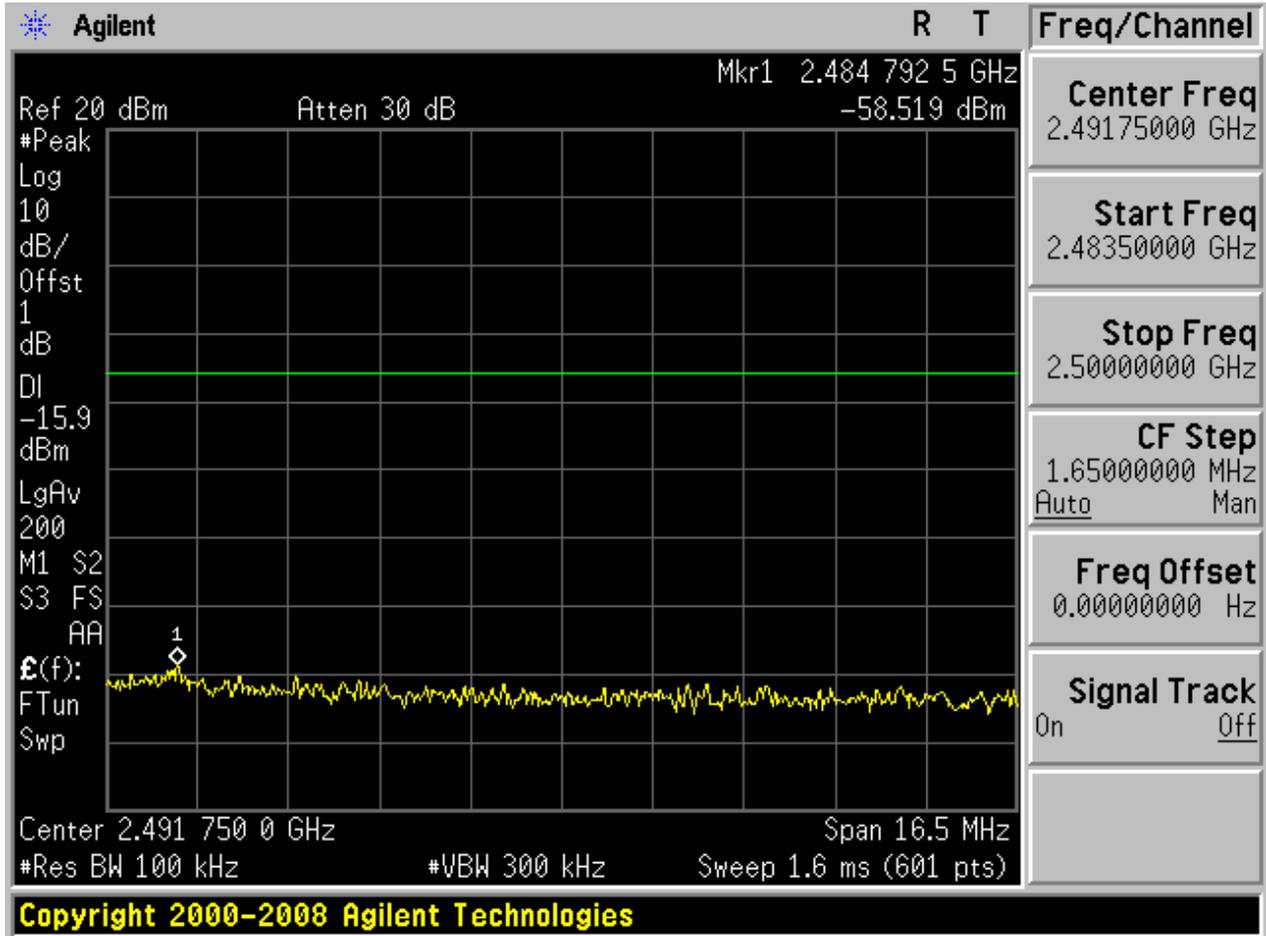
Puw:

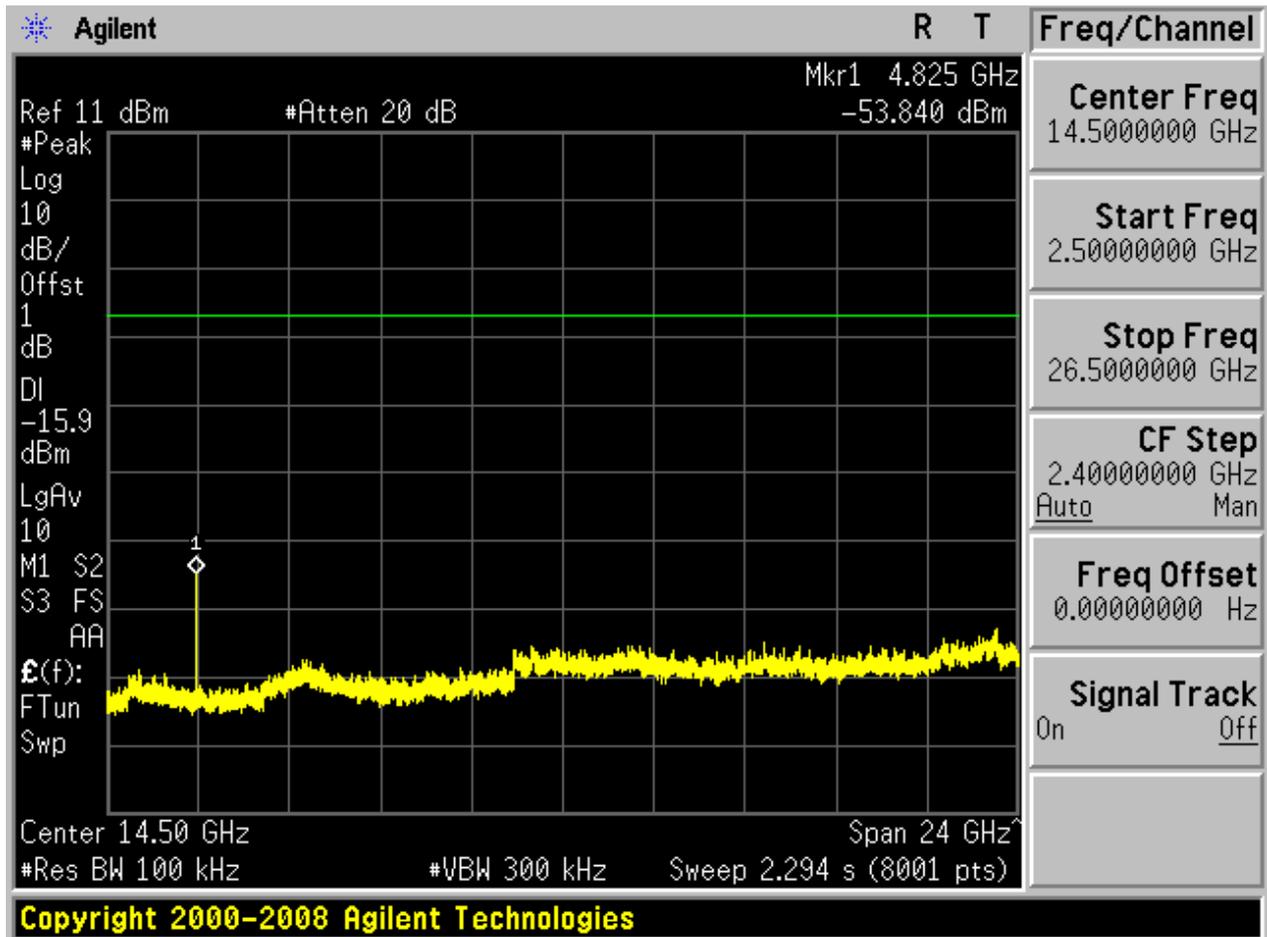






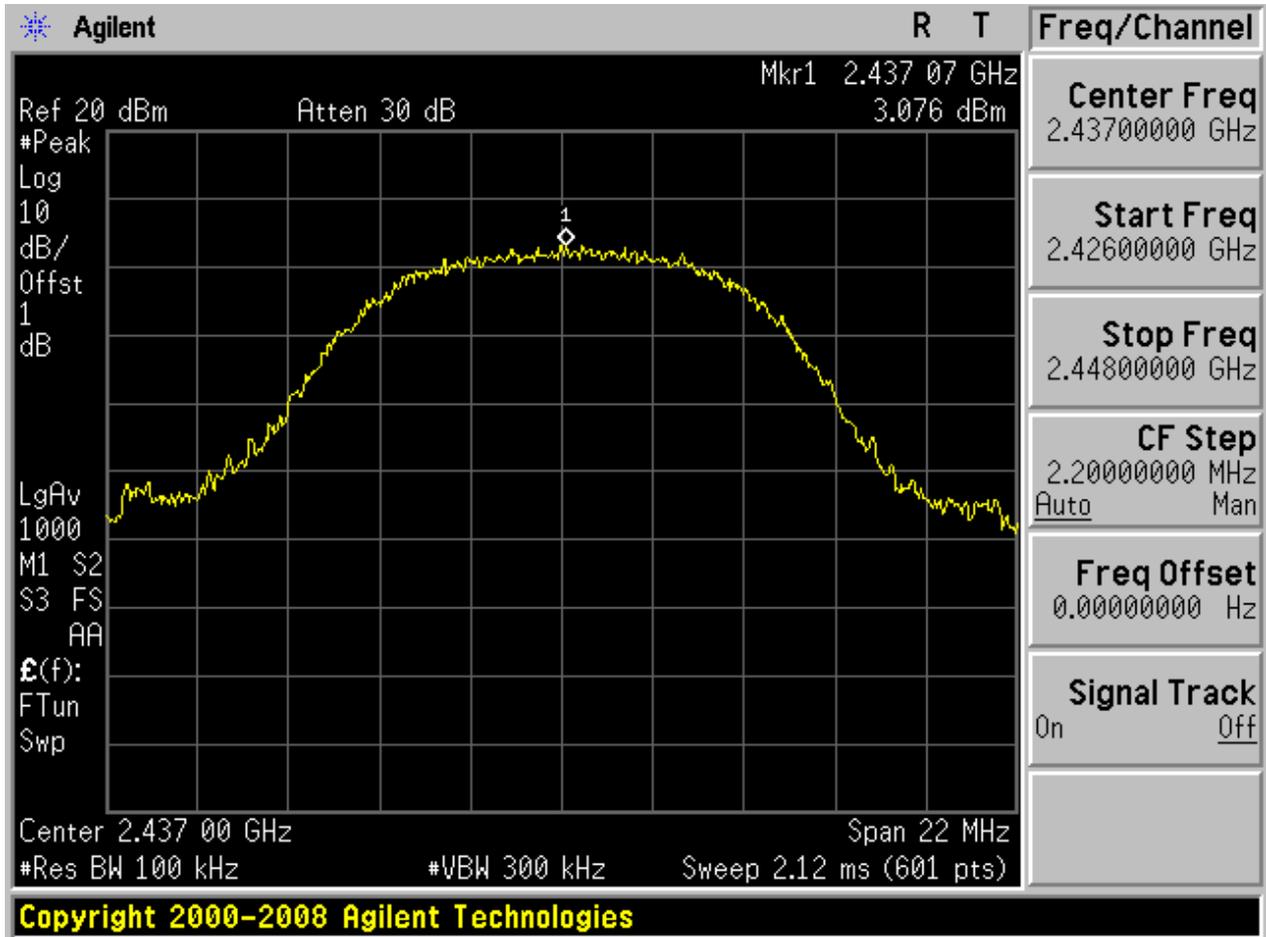




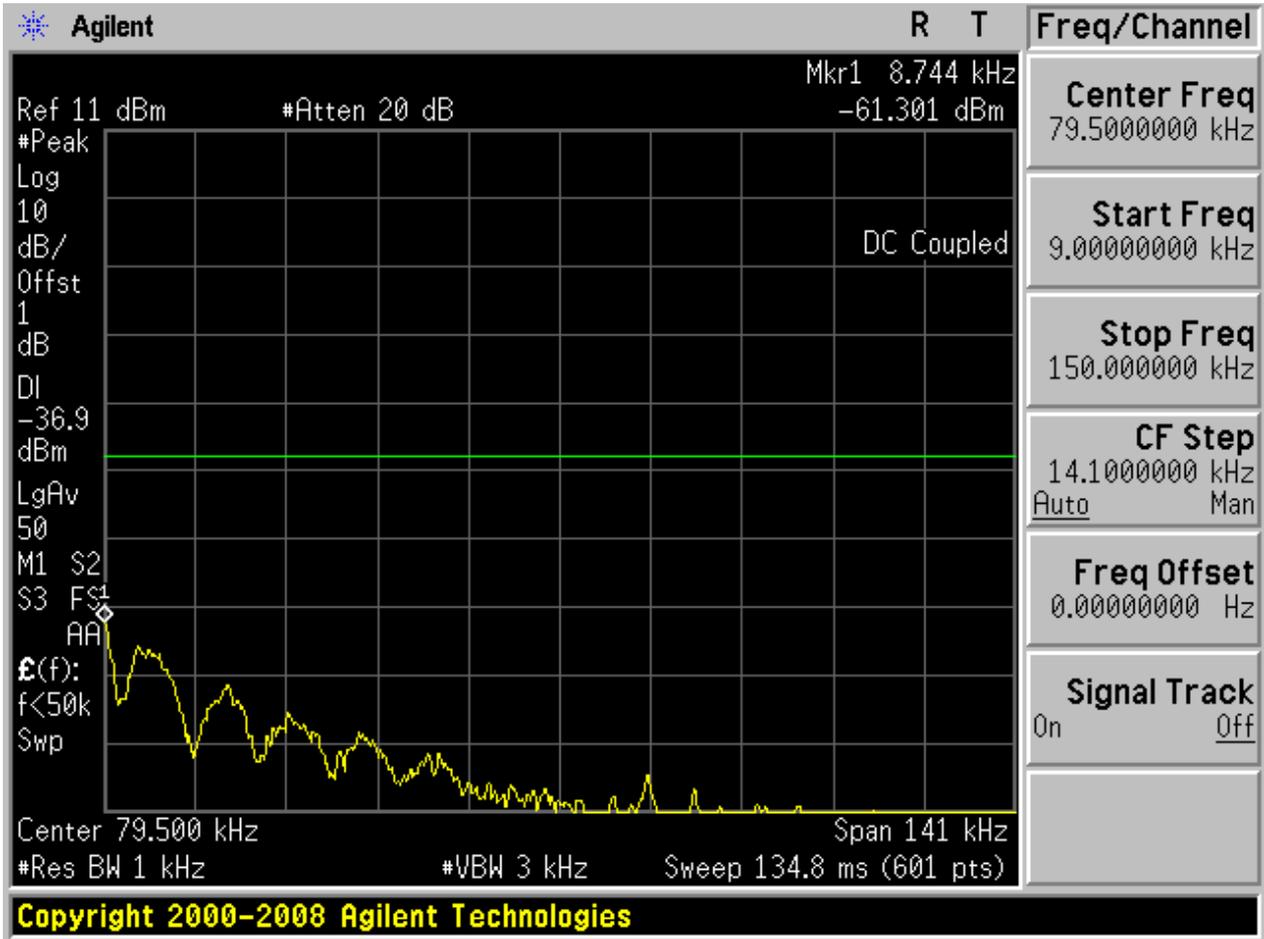


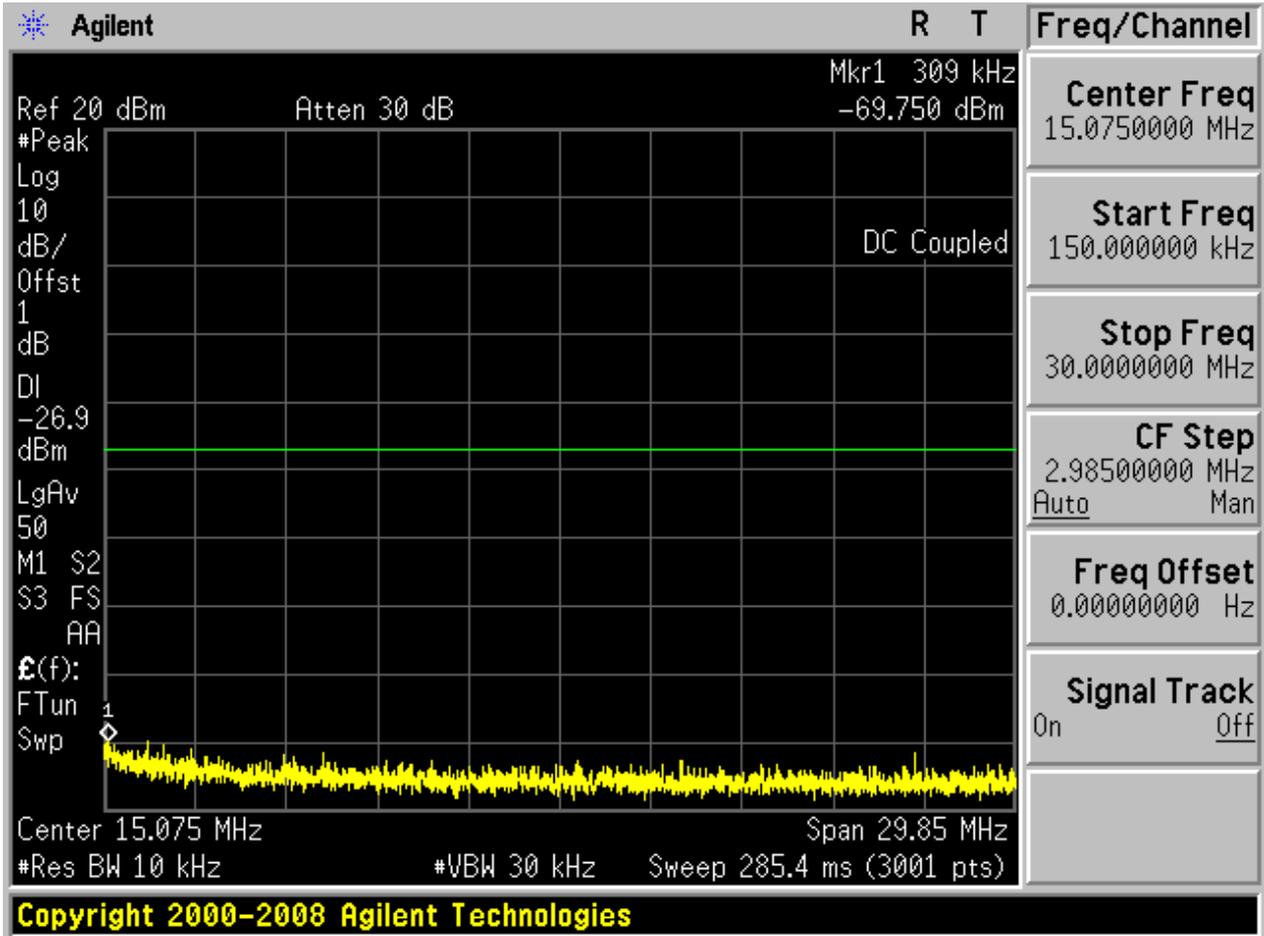
2.3 11B_M@Ant 1

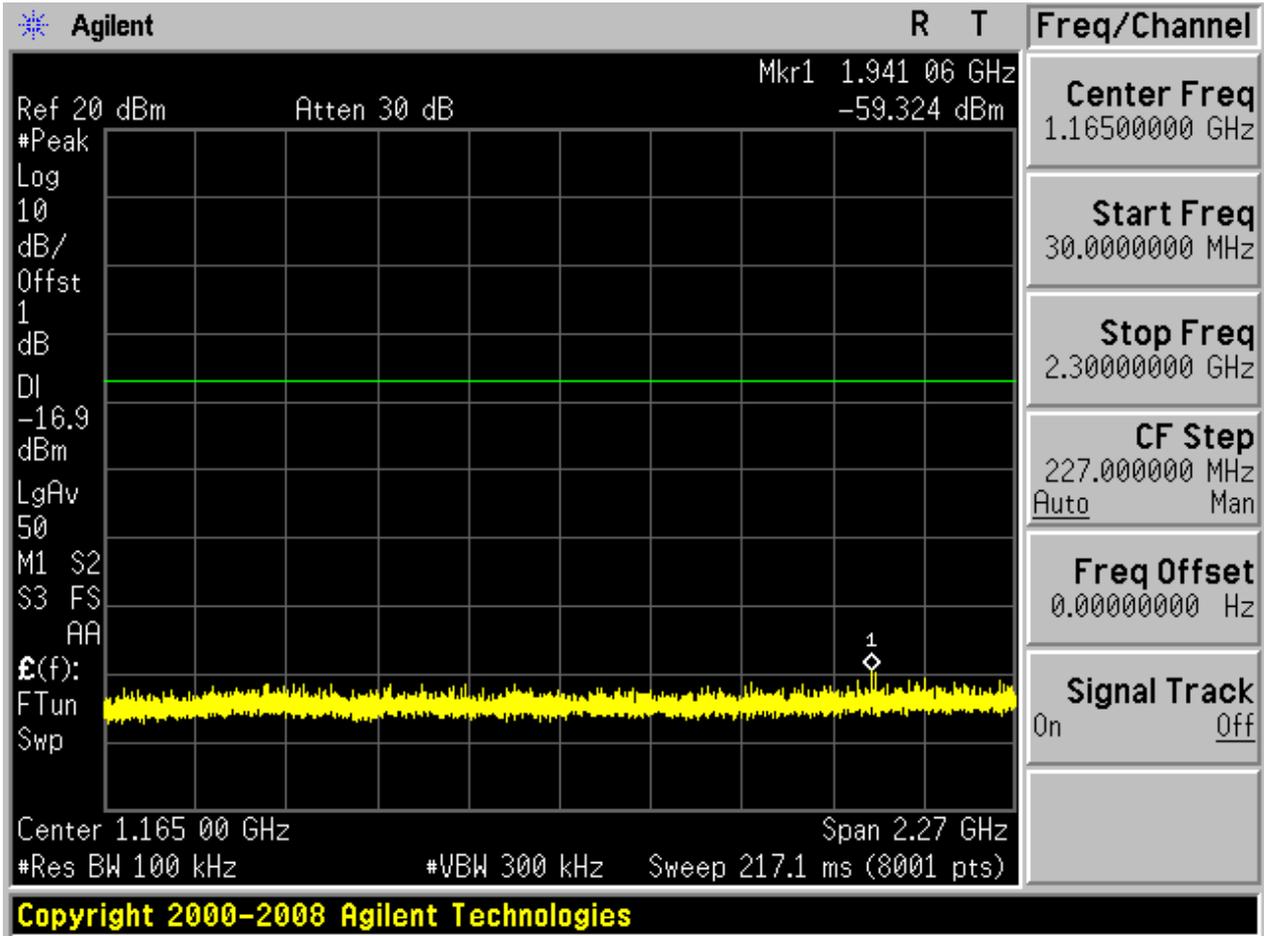
Pref:

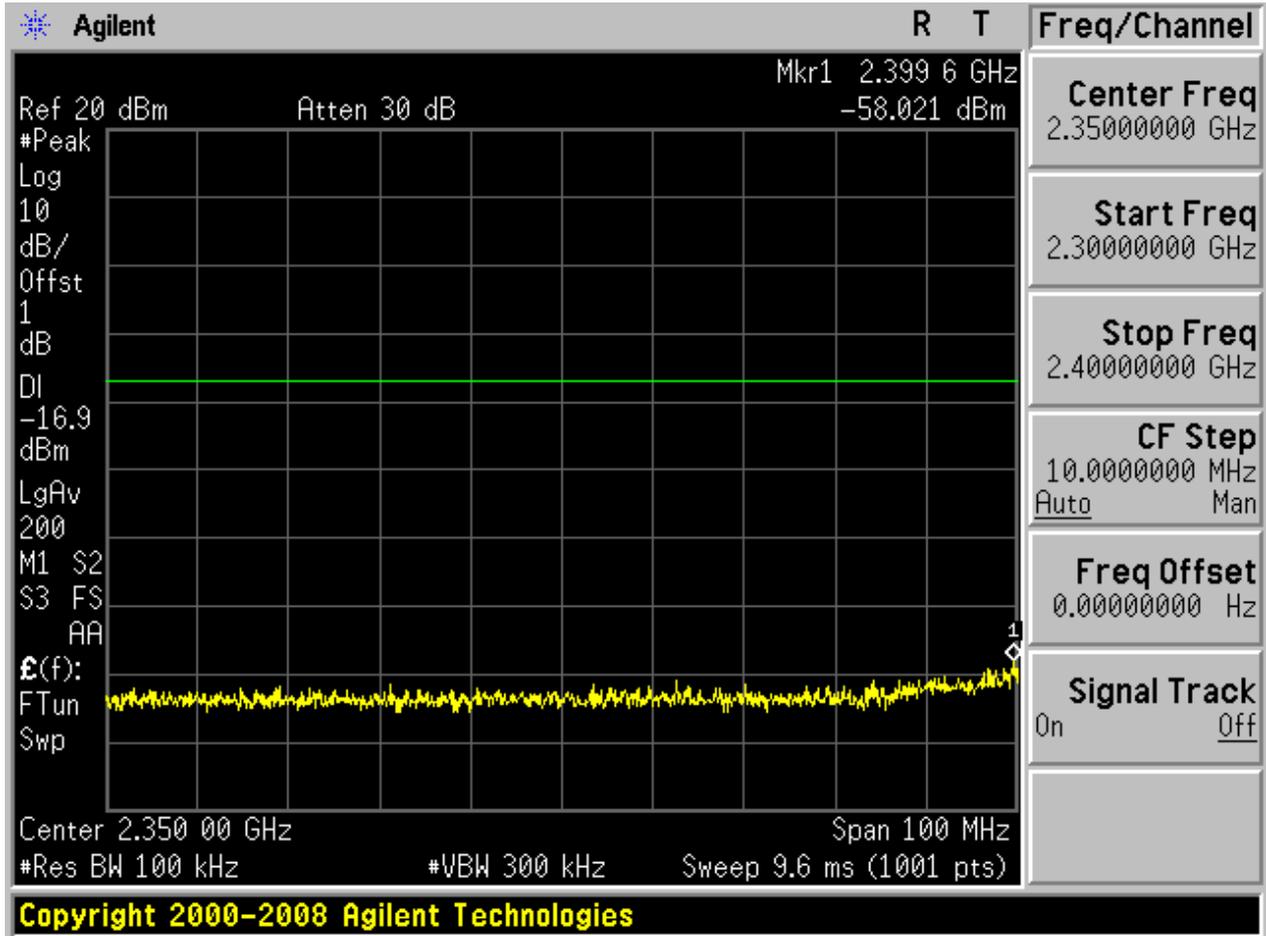


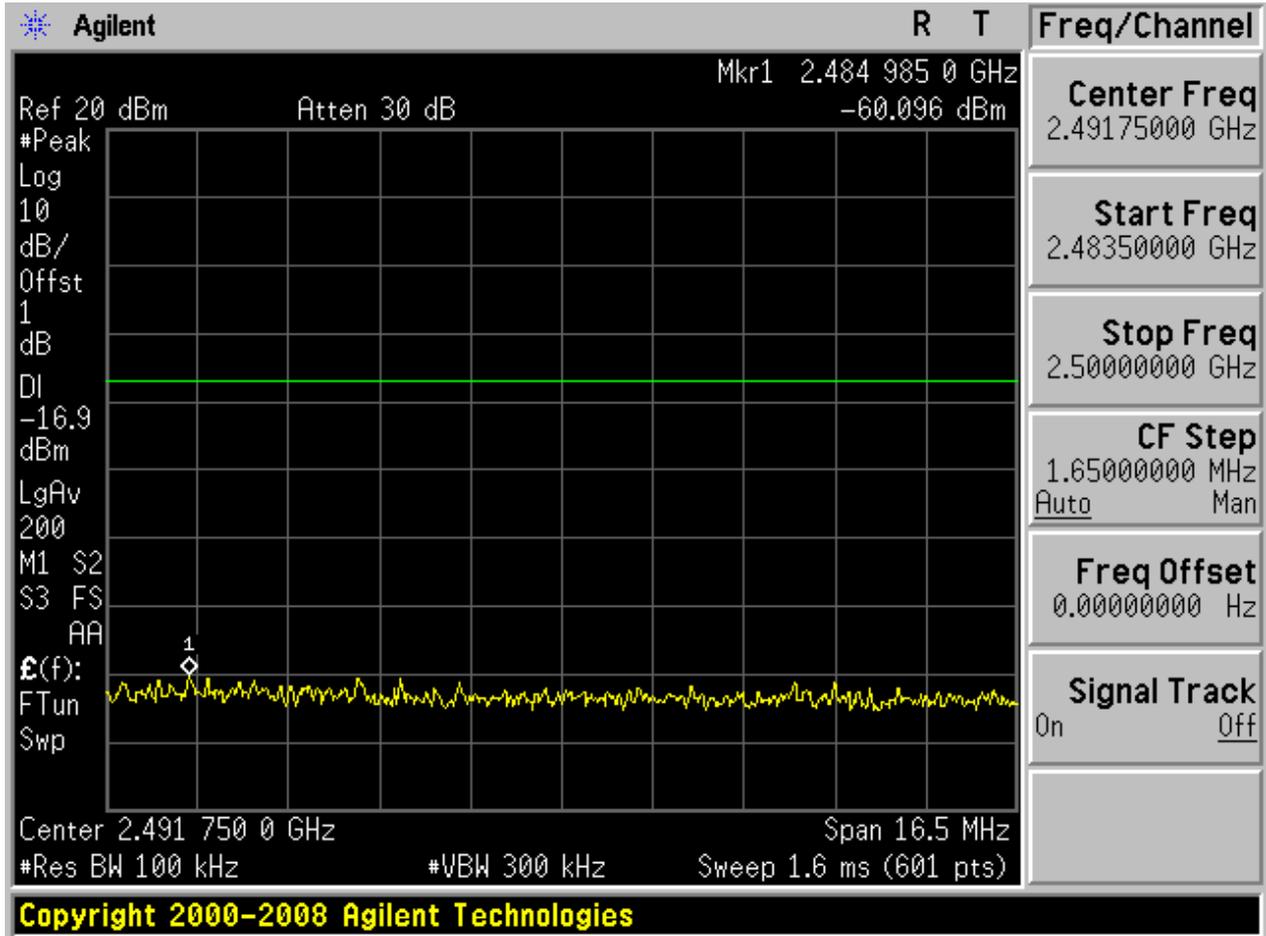
Puw:

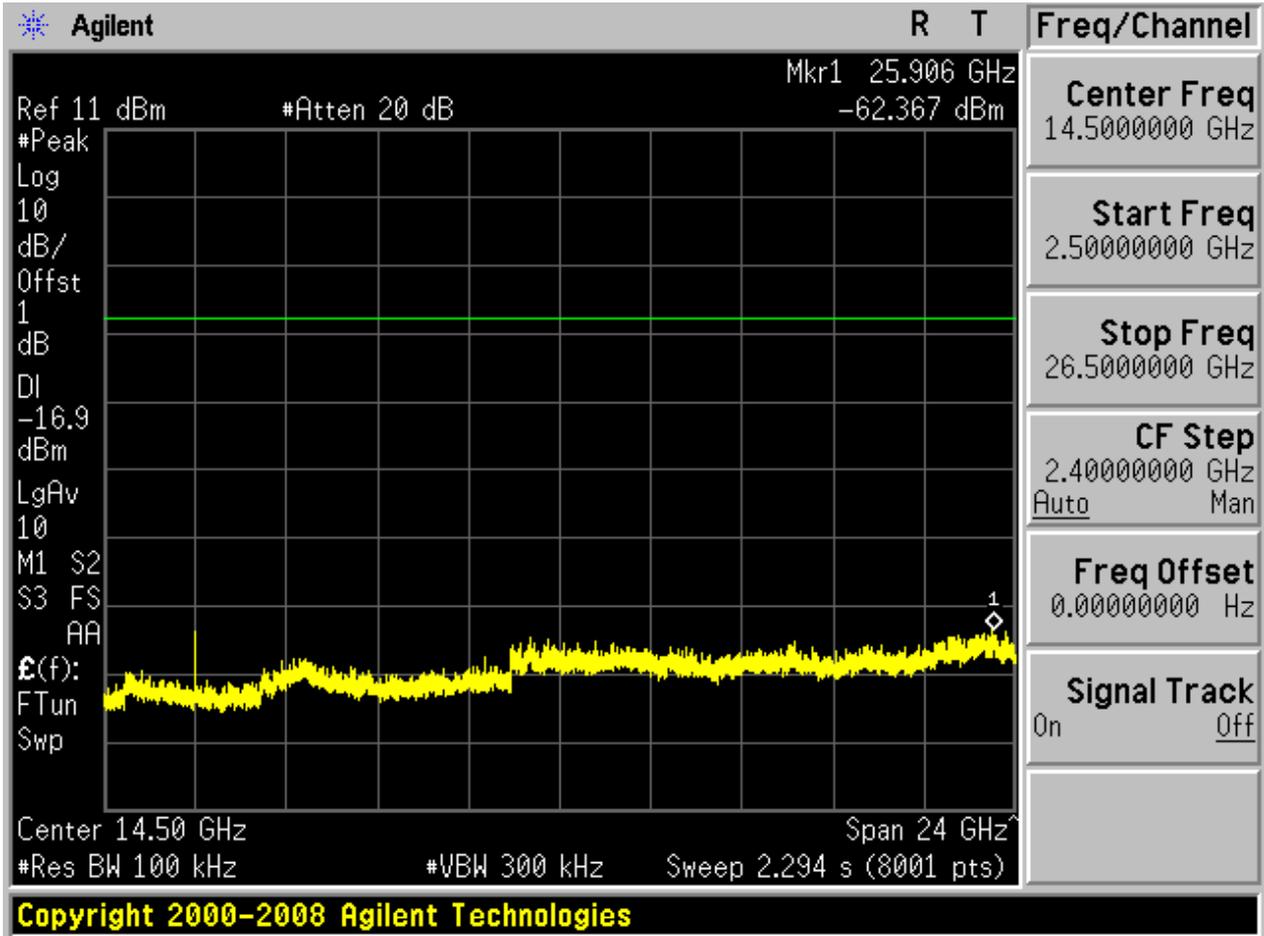






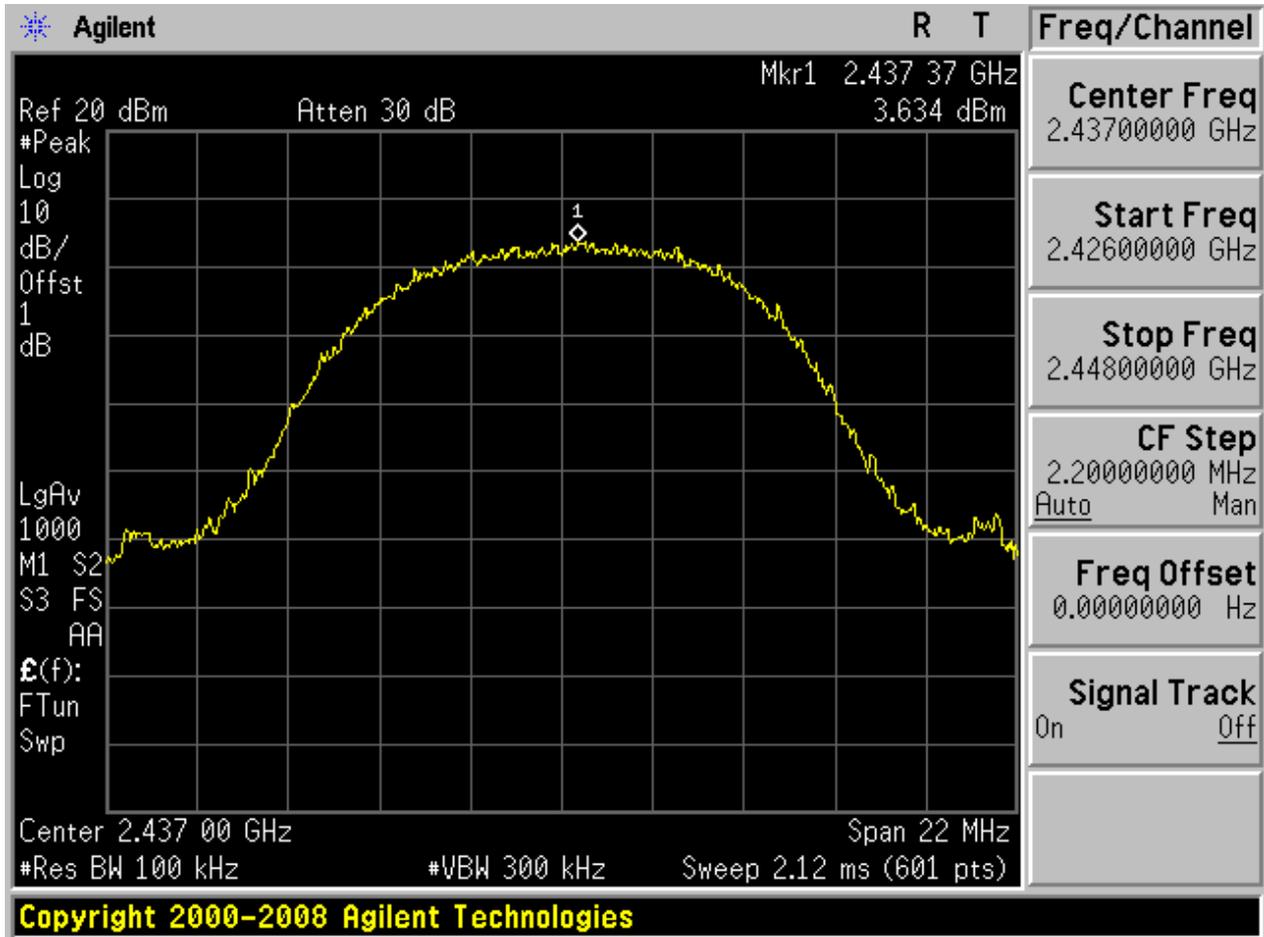




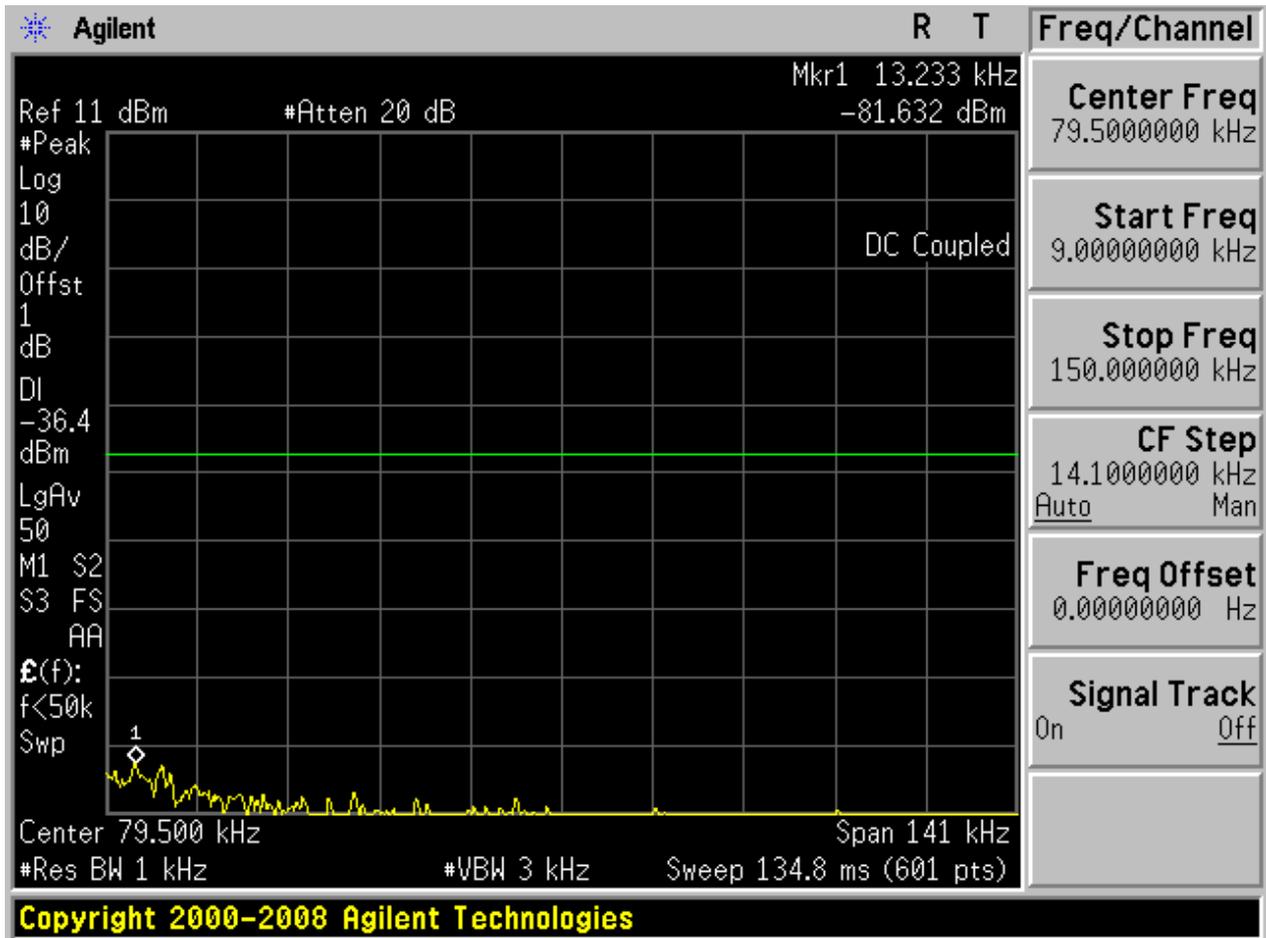


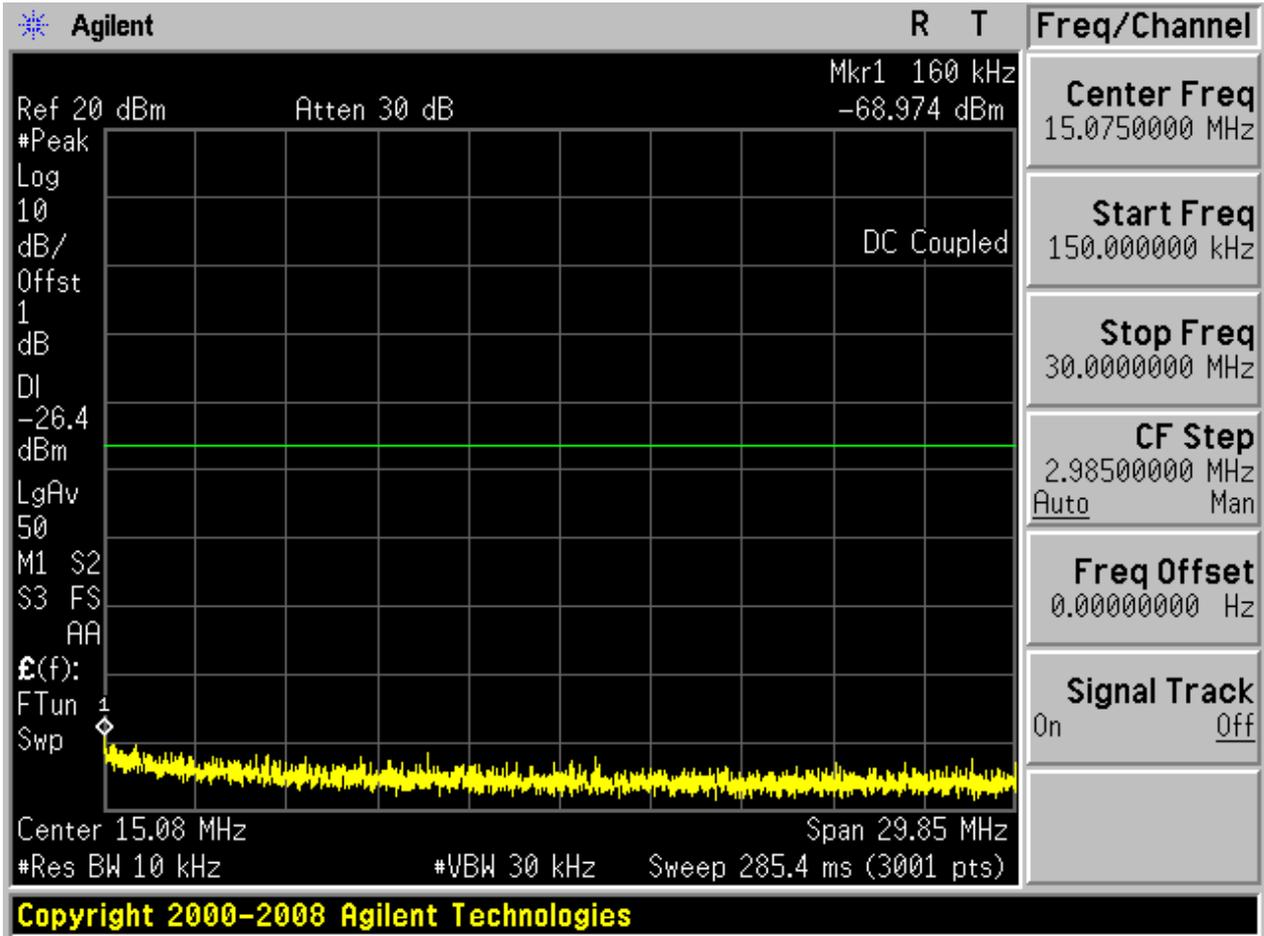
2.4 11B_M@Ant 2

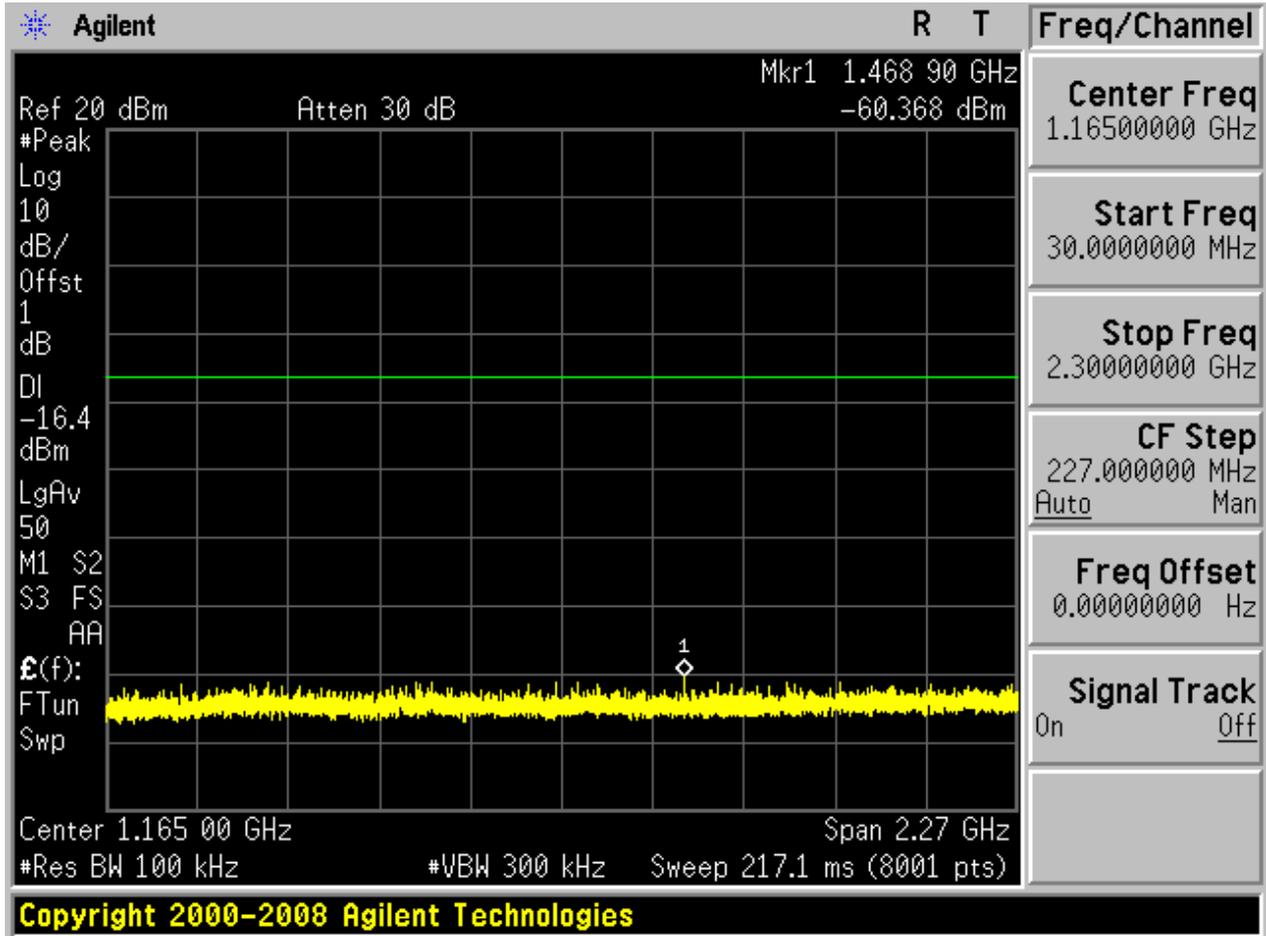
Pref:

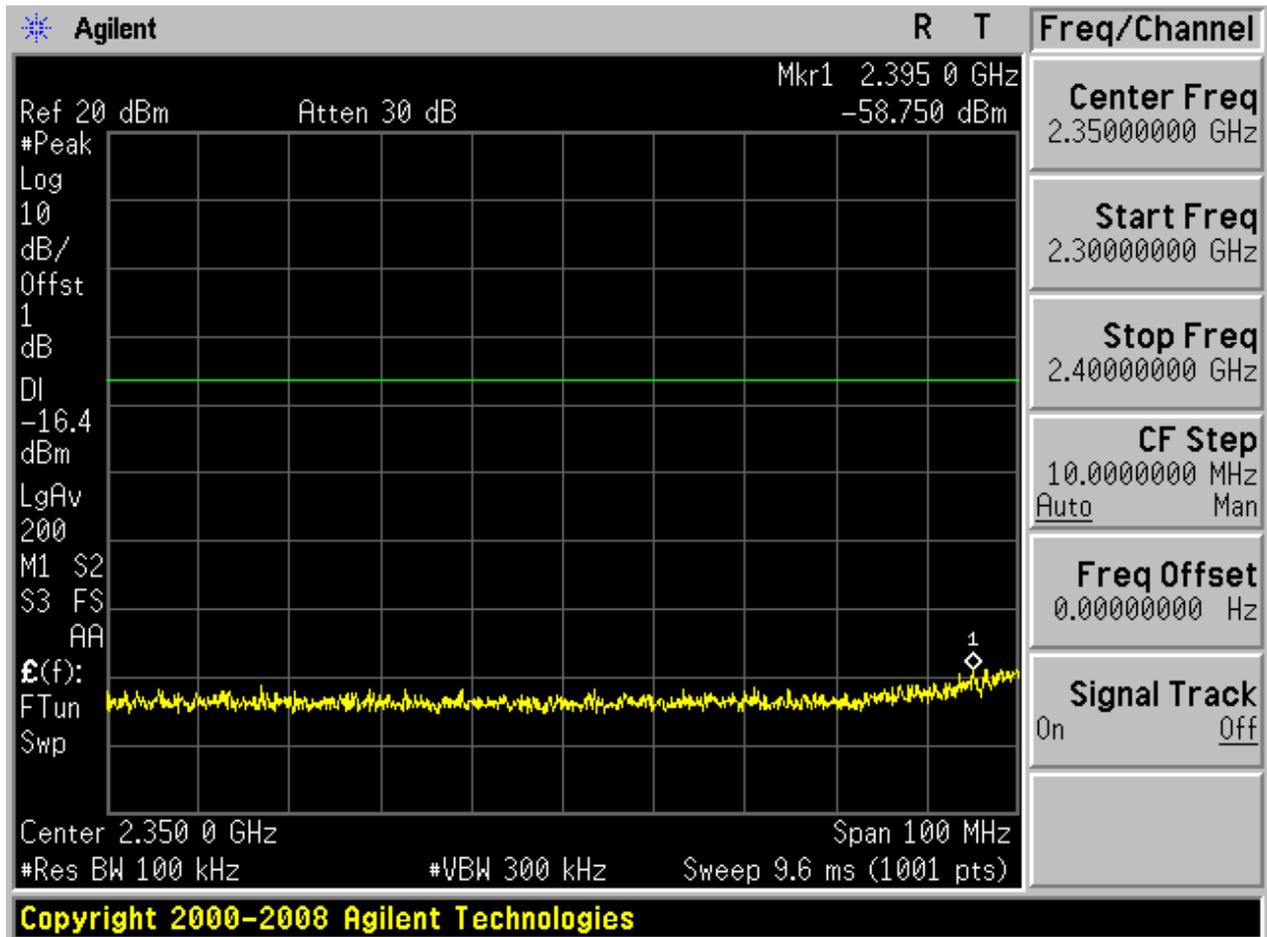


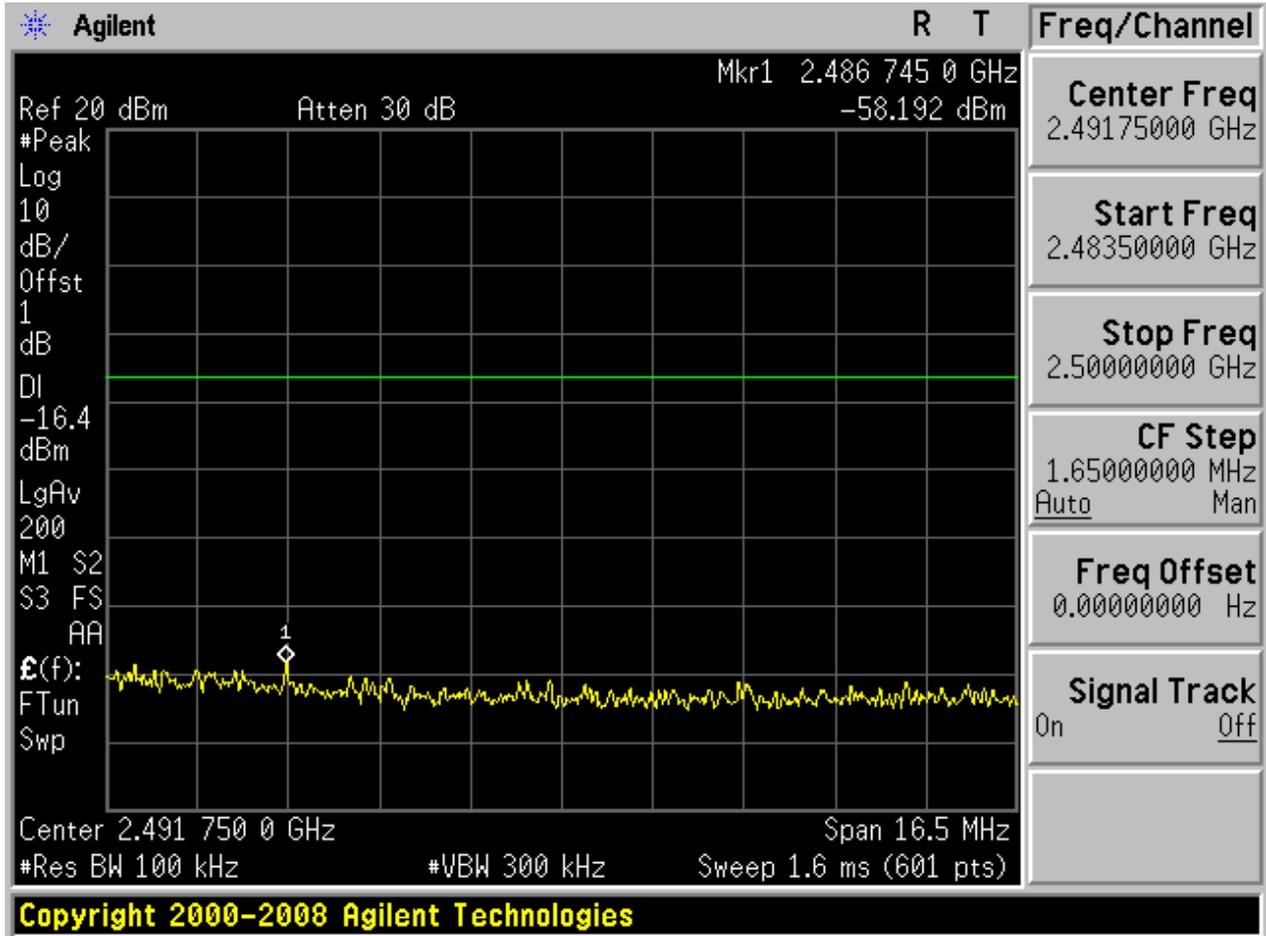
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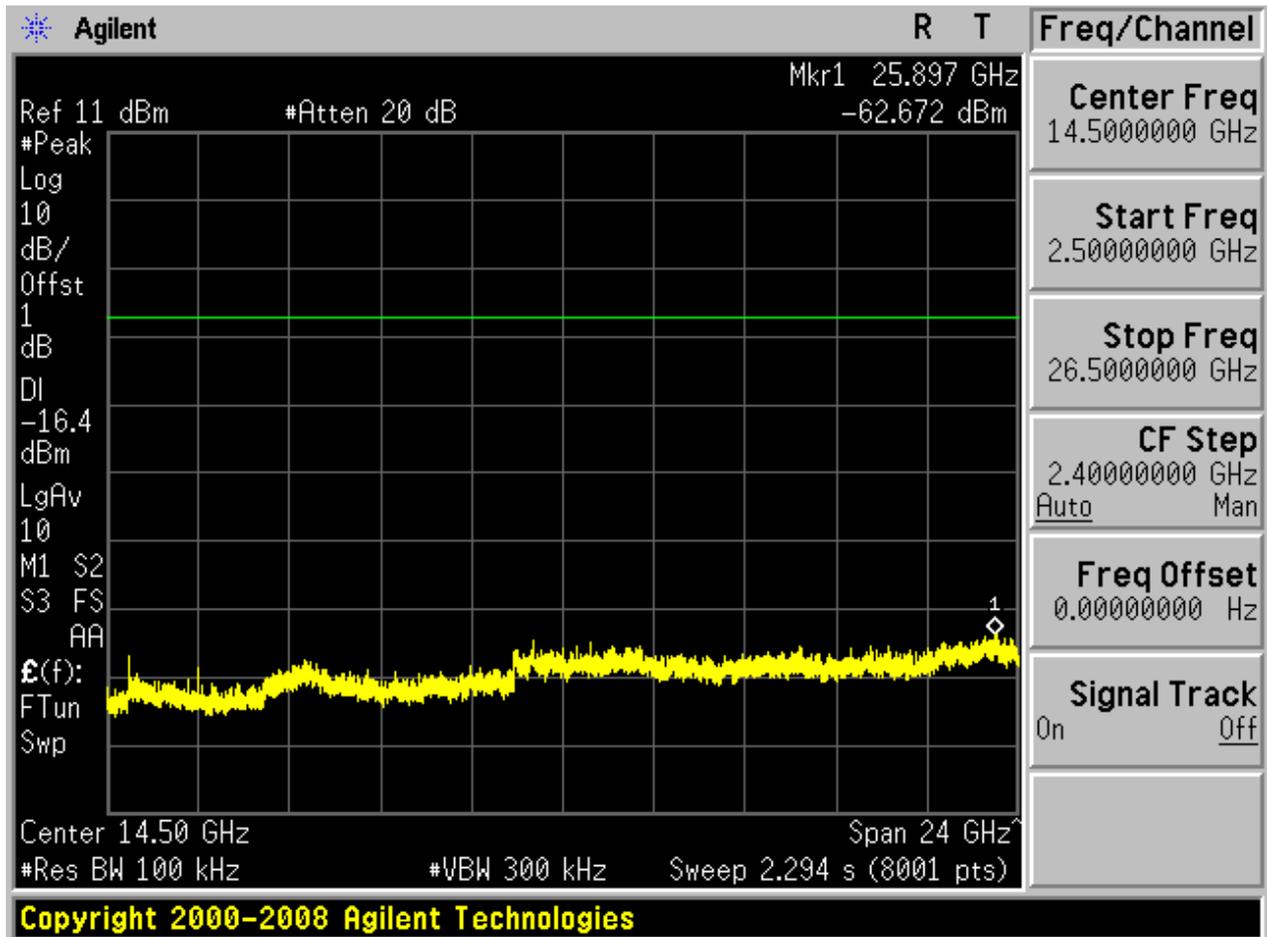






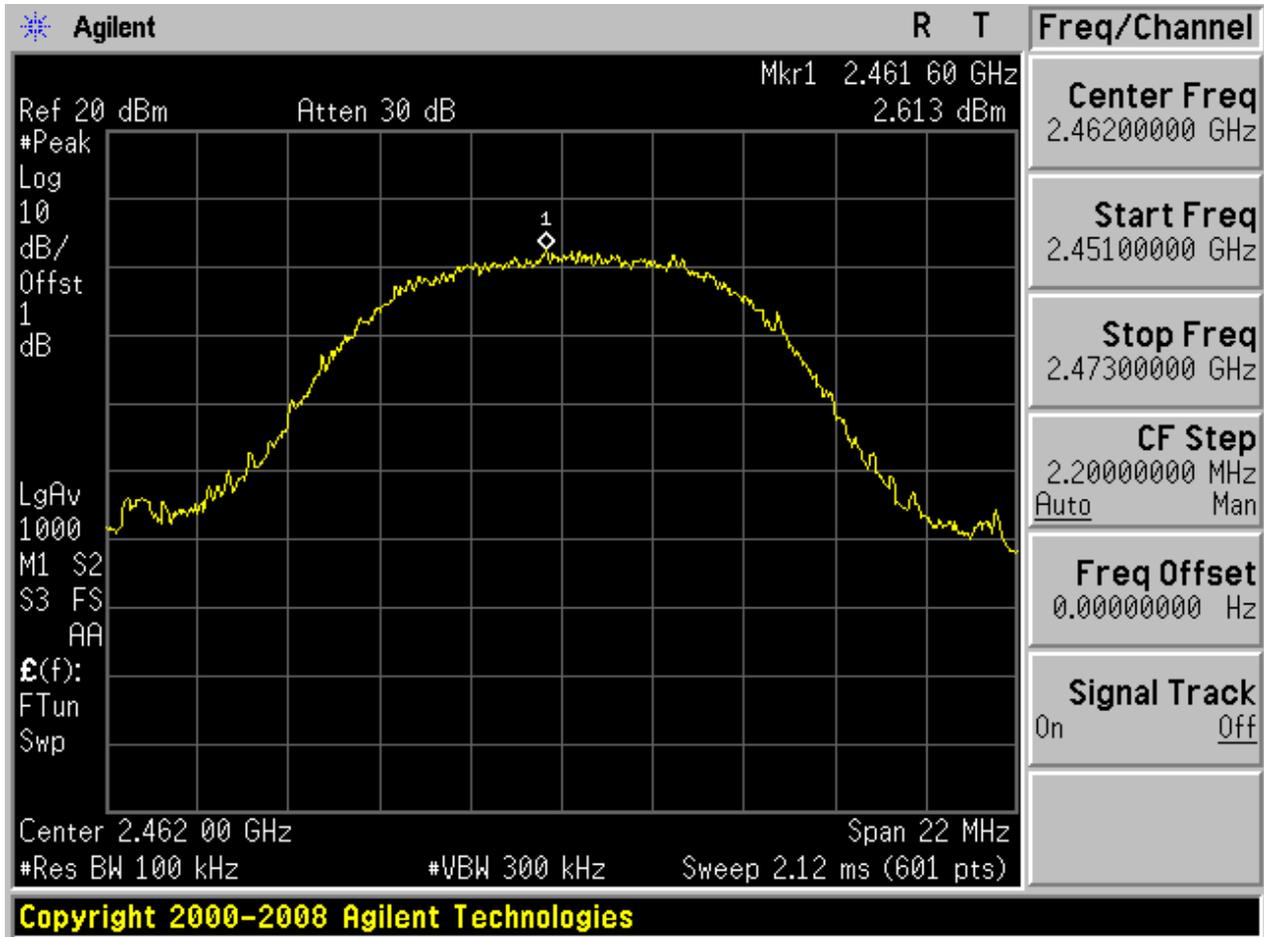




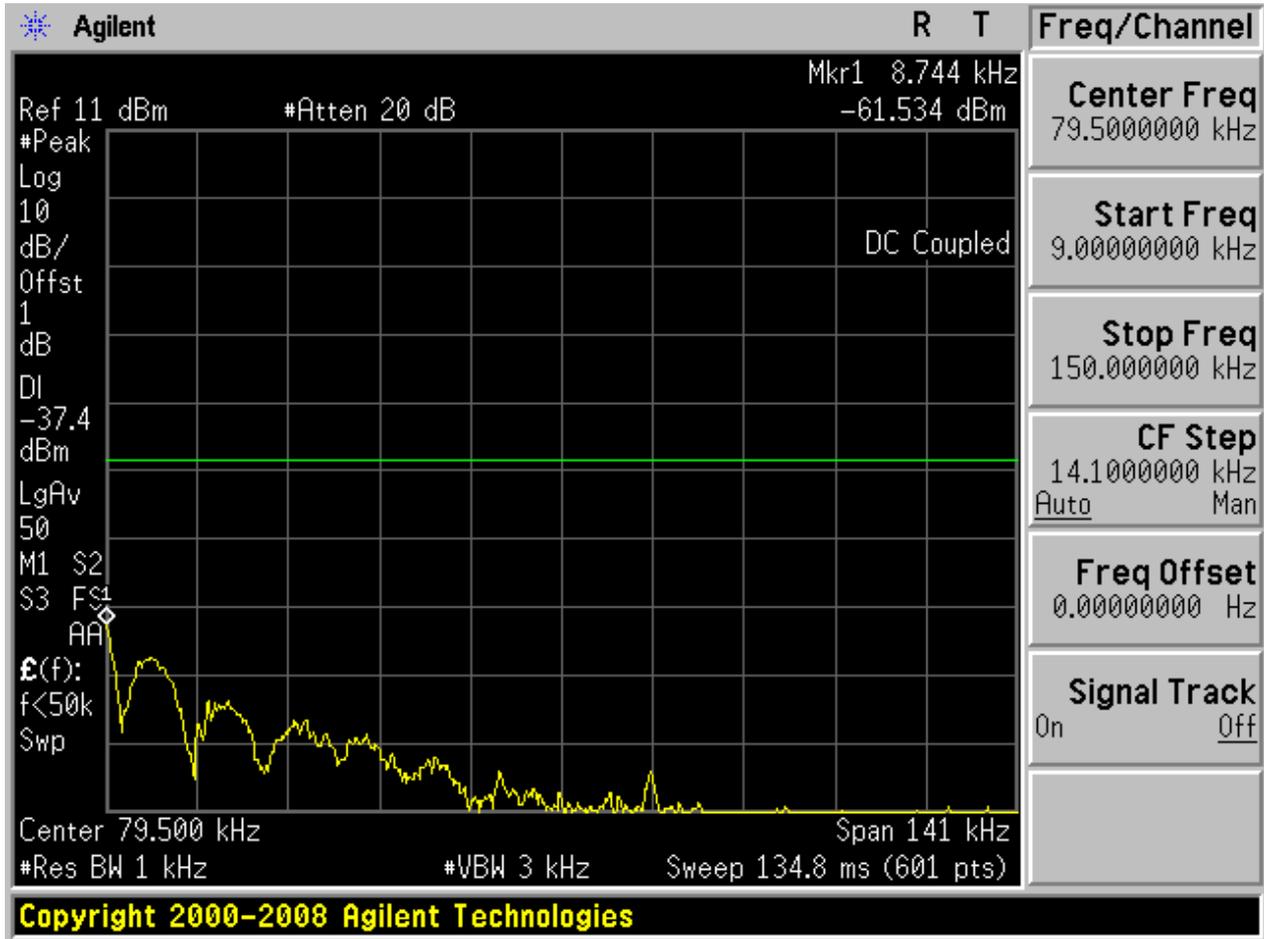


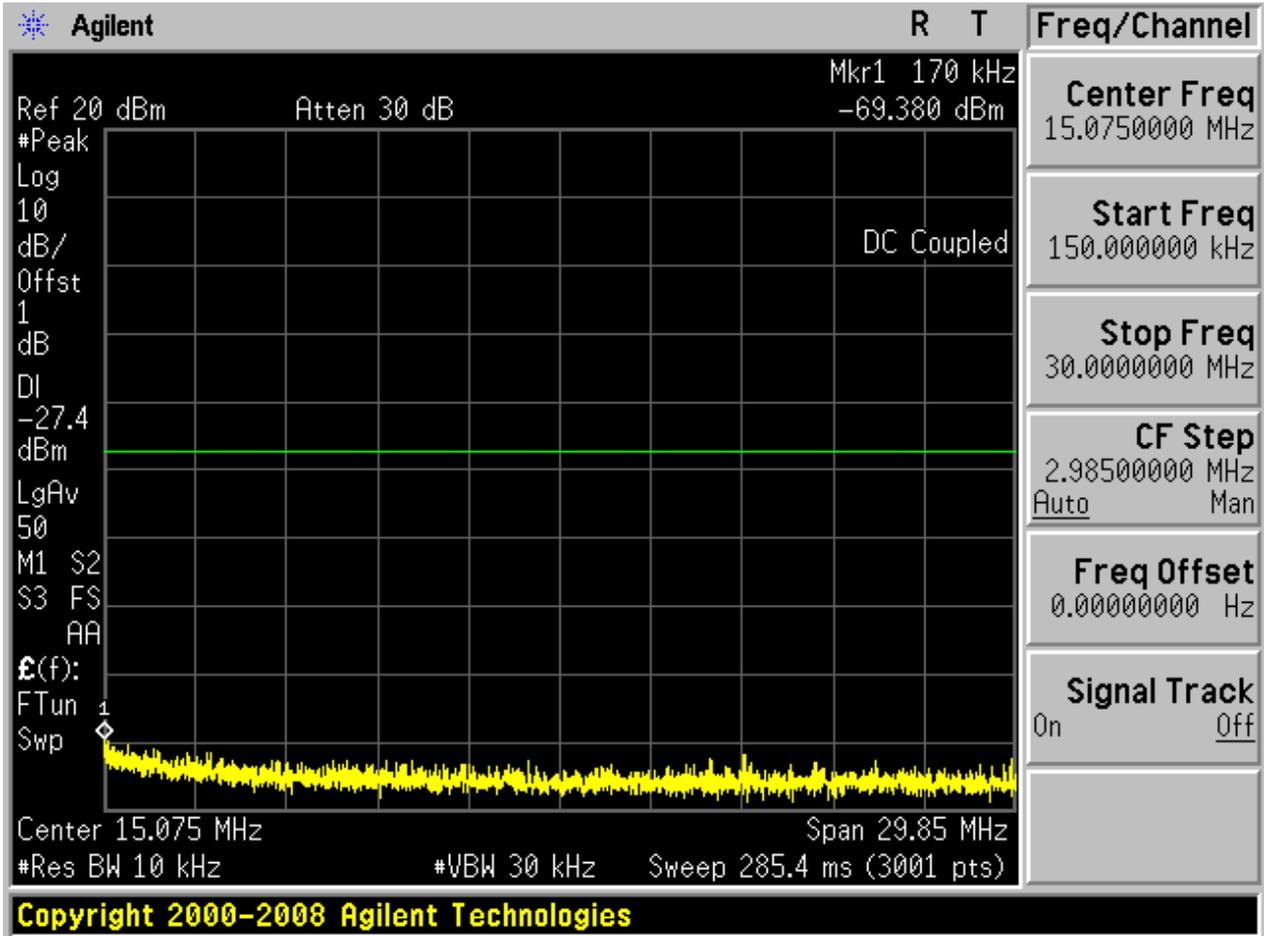
2.5 11B_H@Ant 1

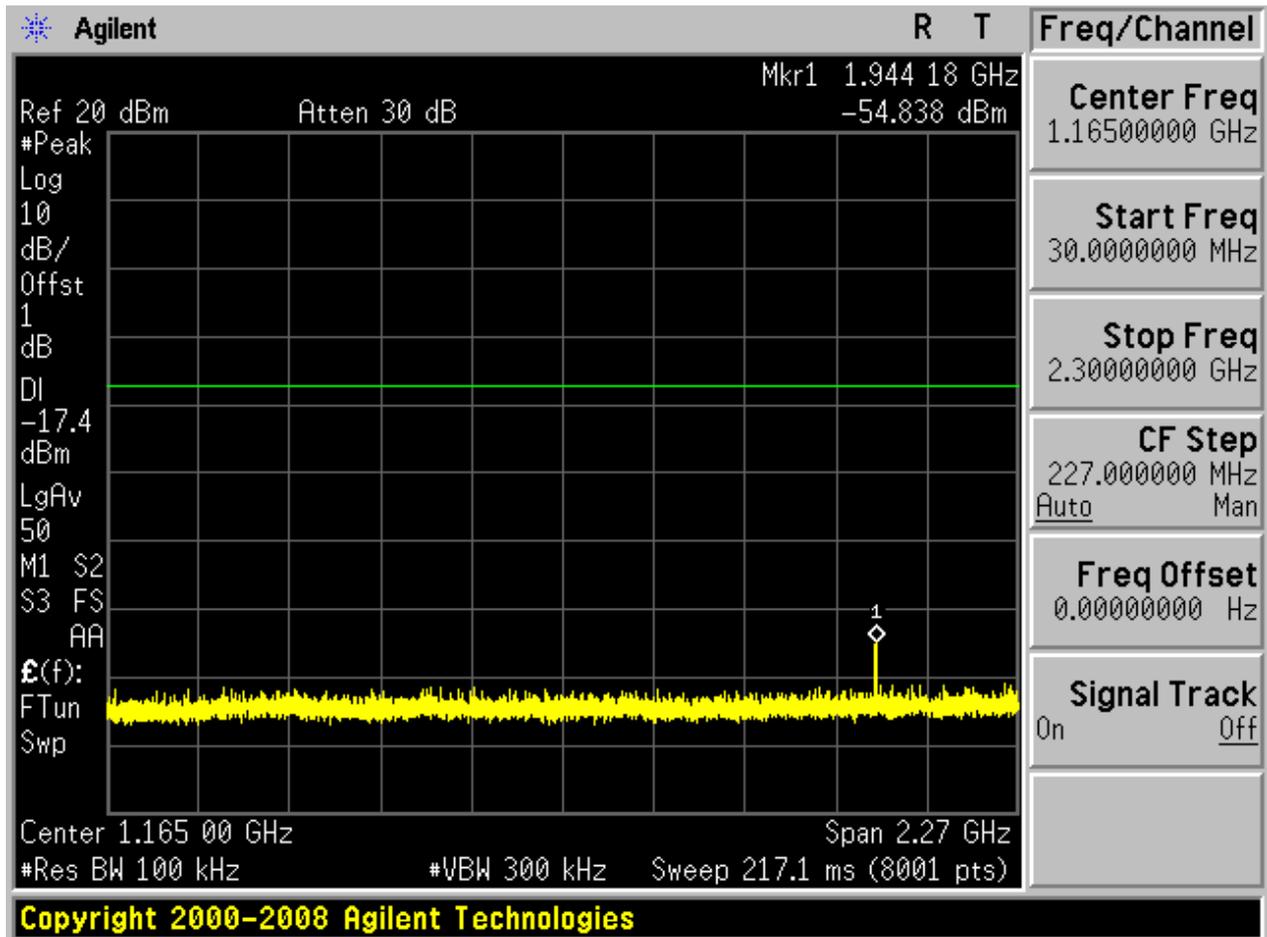
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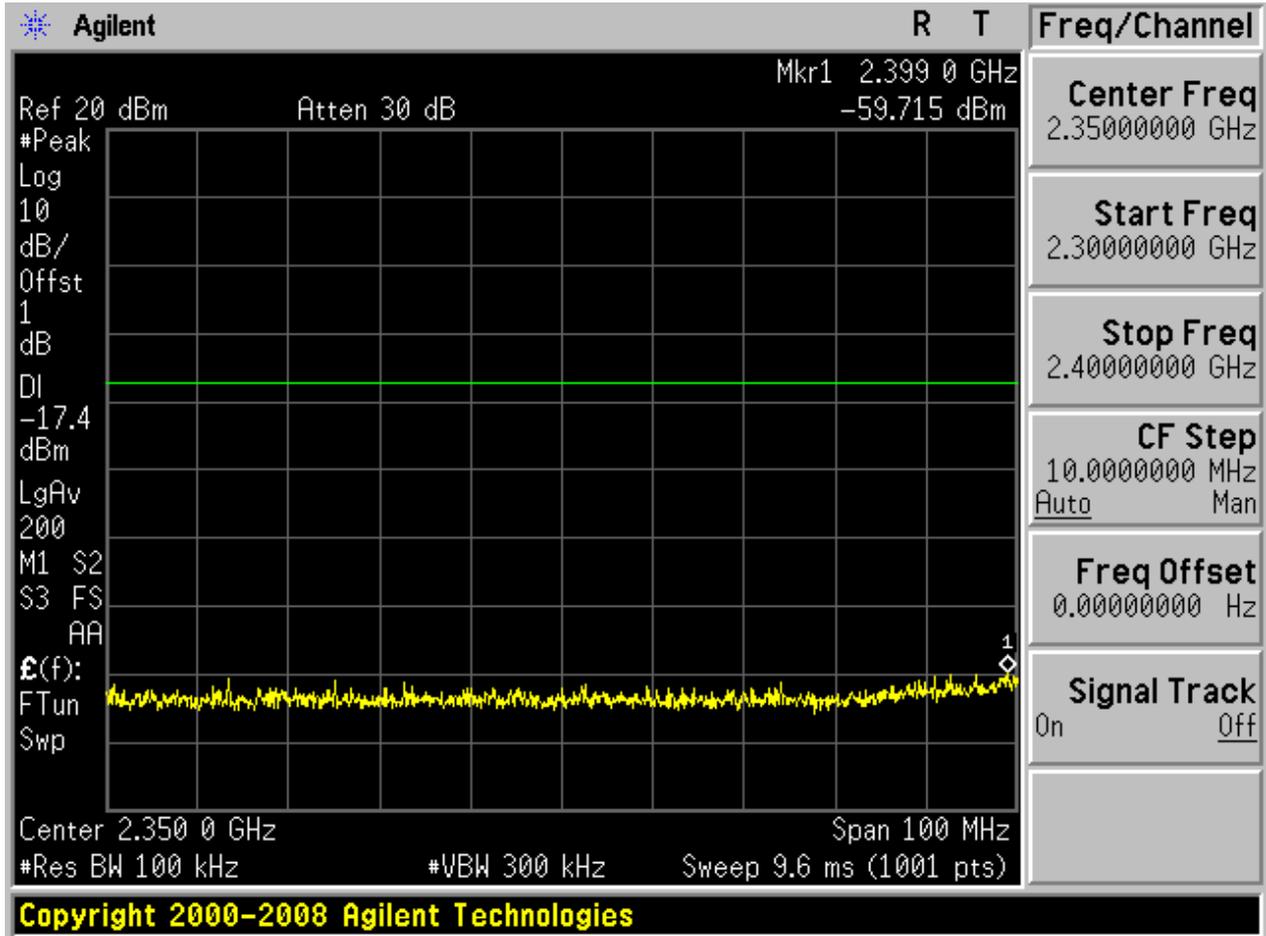


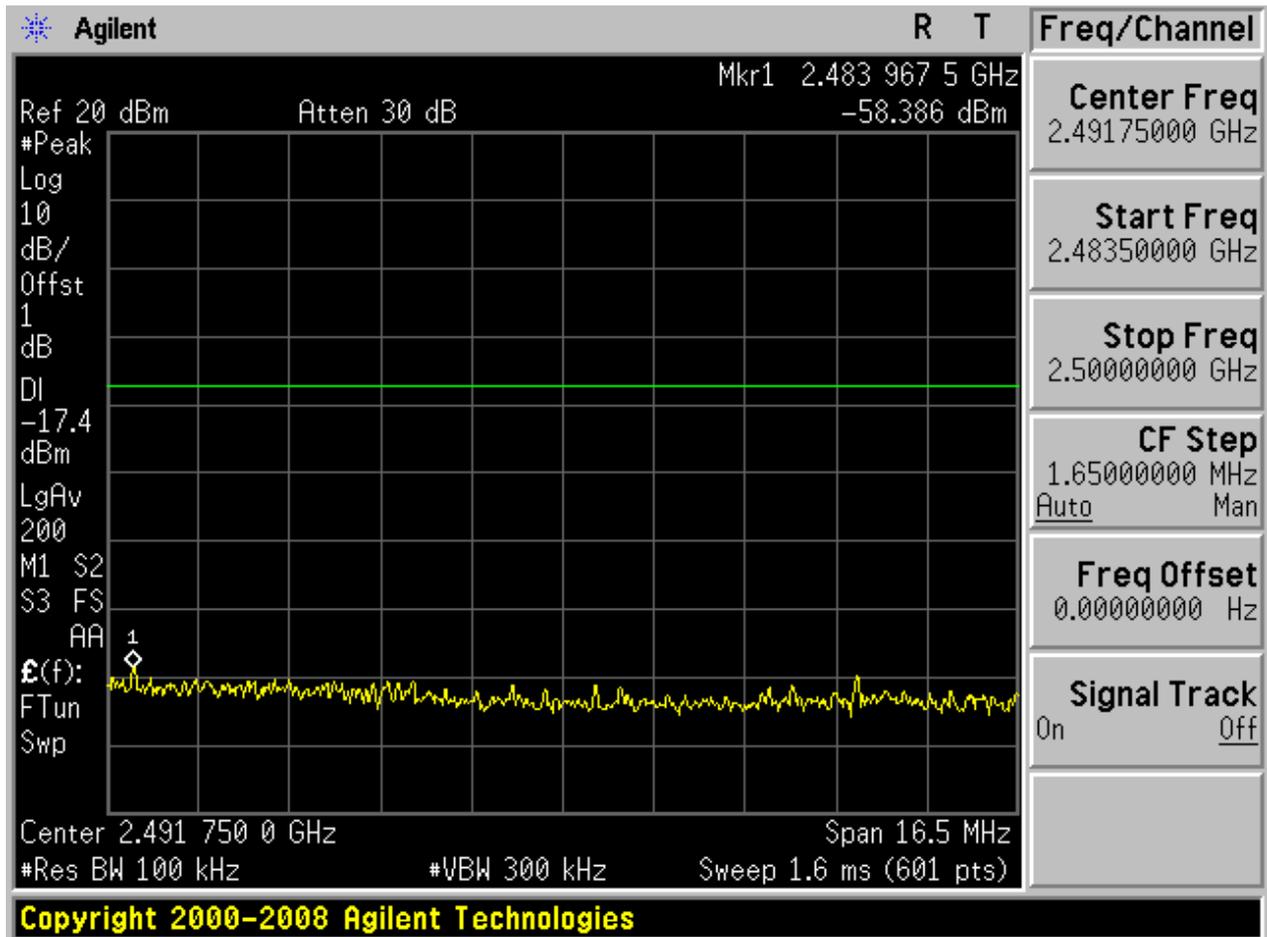
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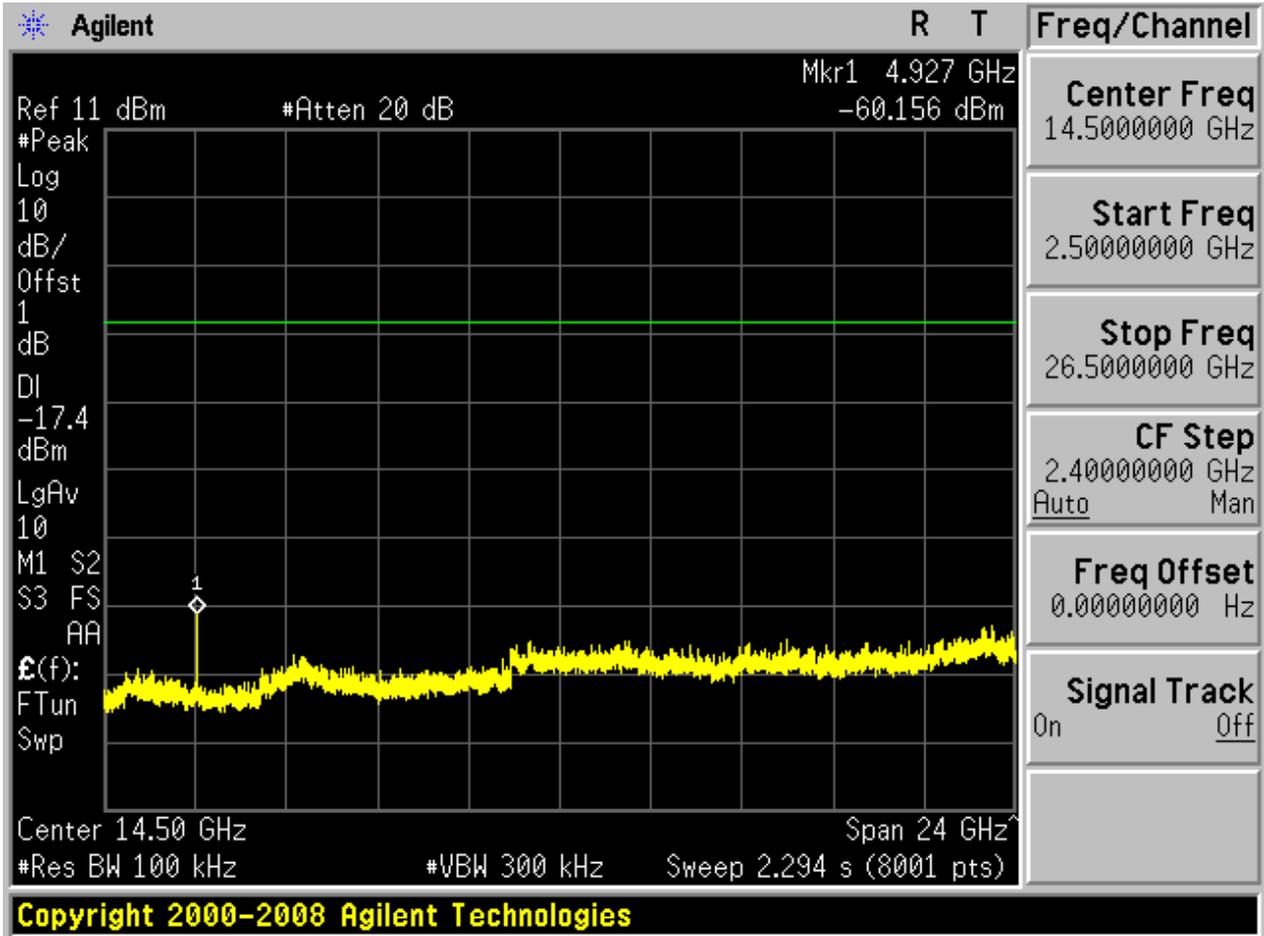






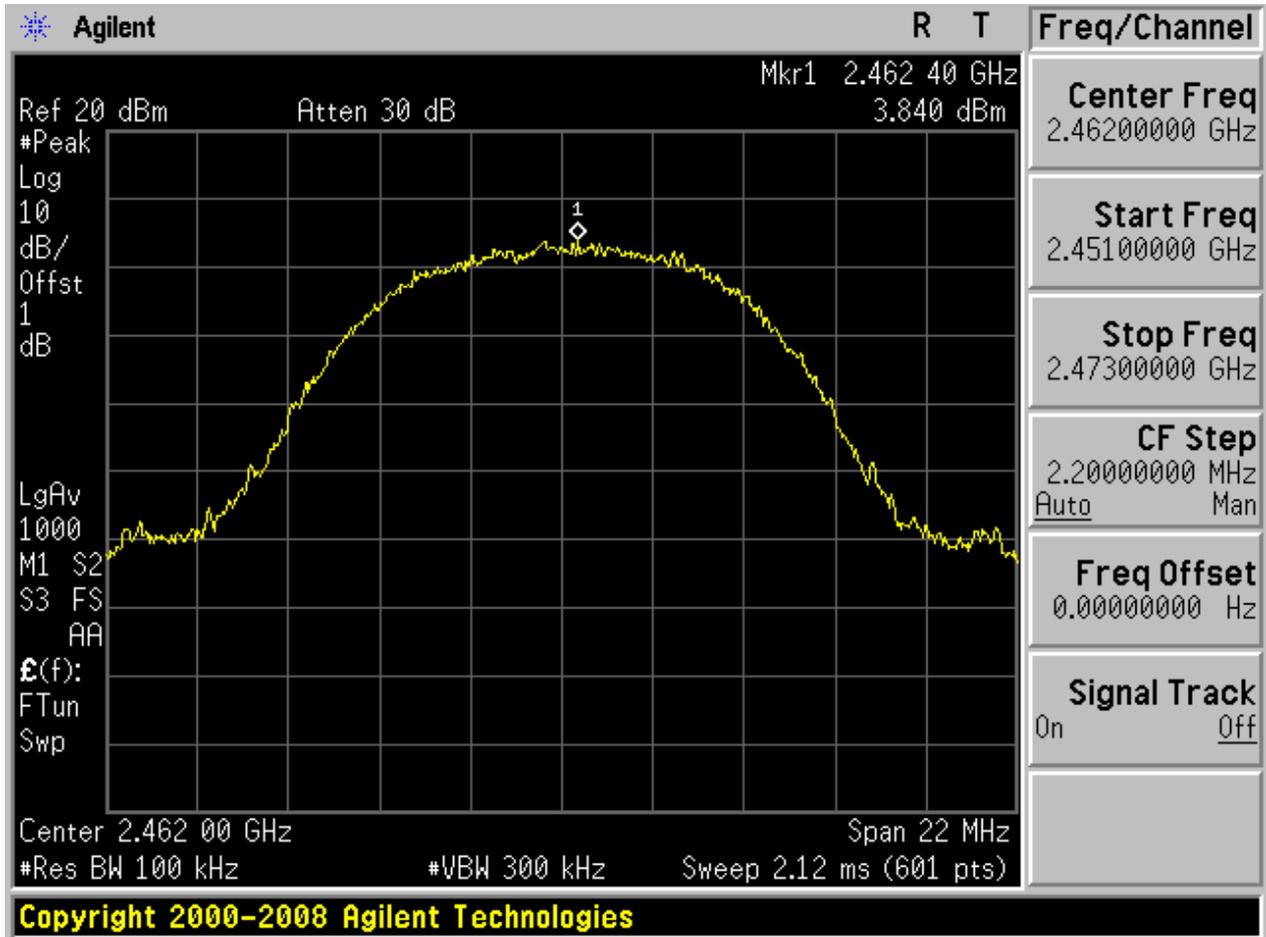




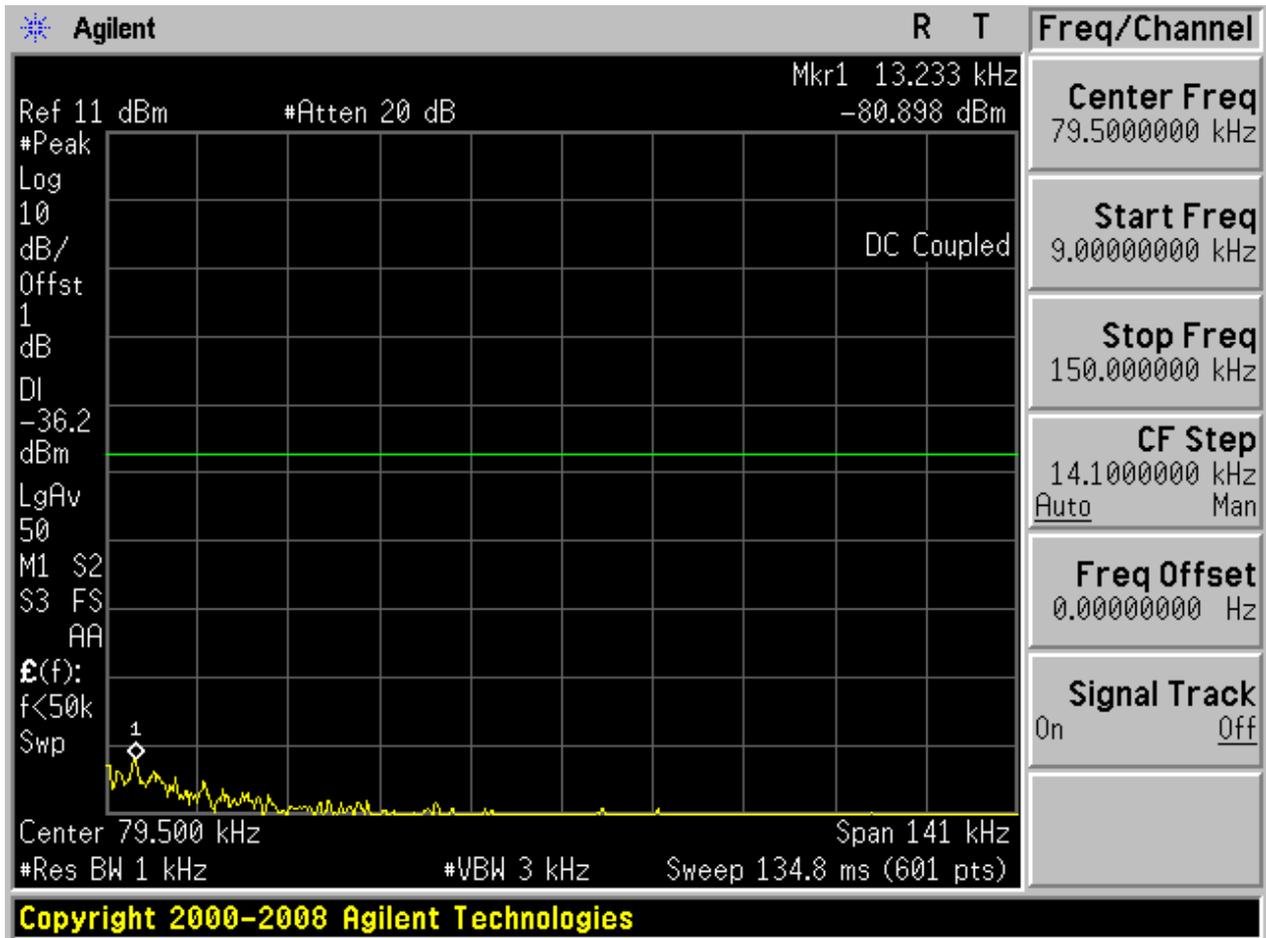


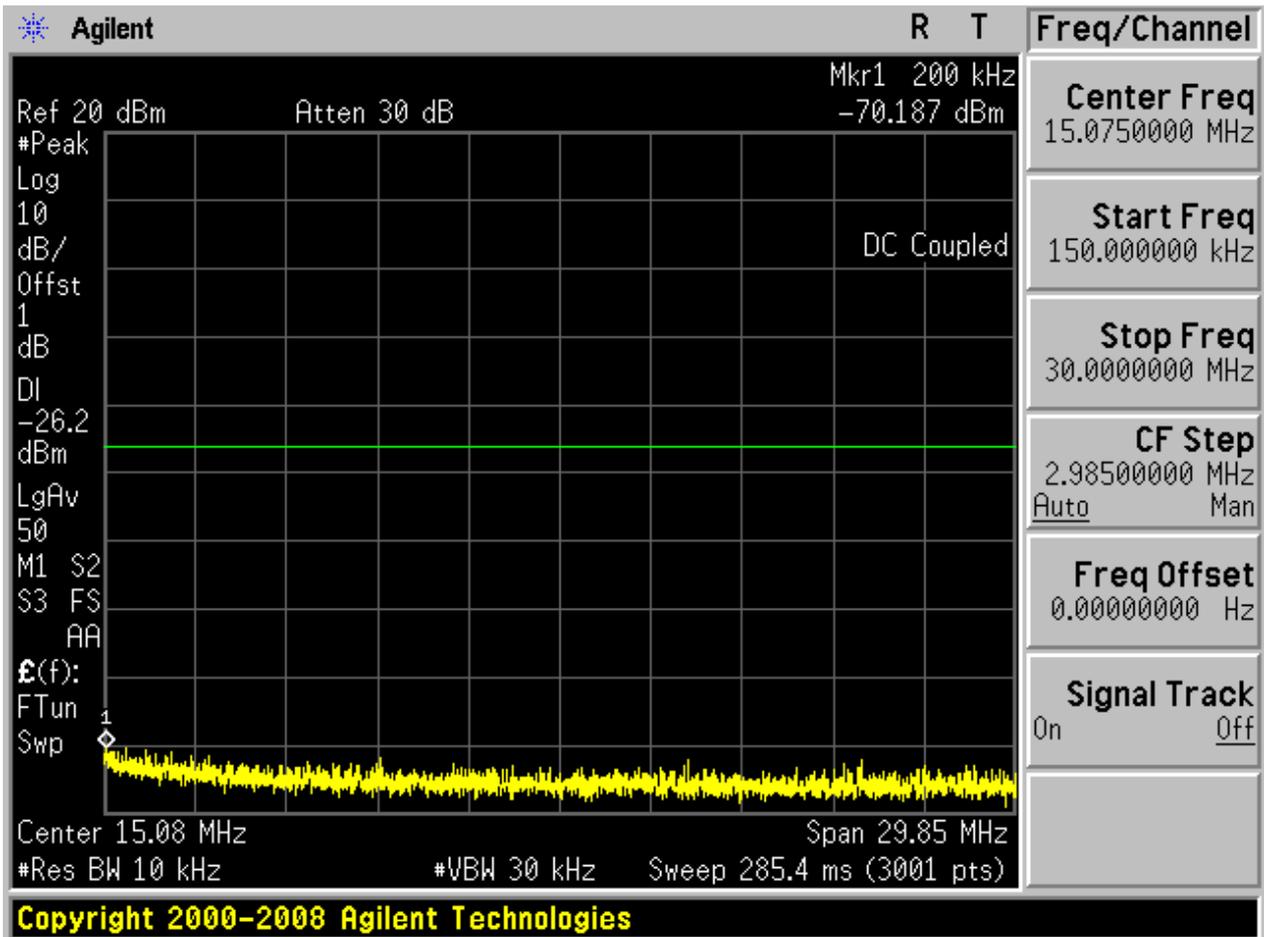
2.6 11B_H@Ant 2

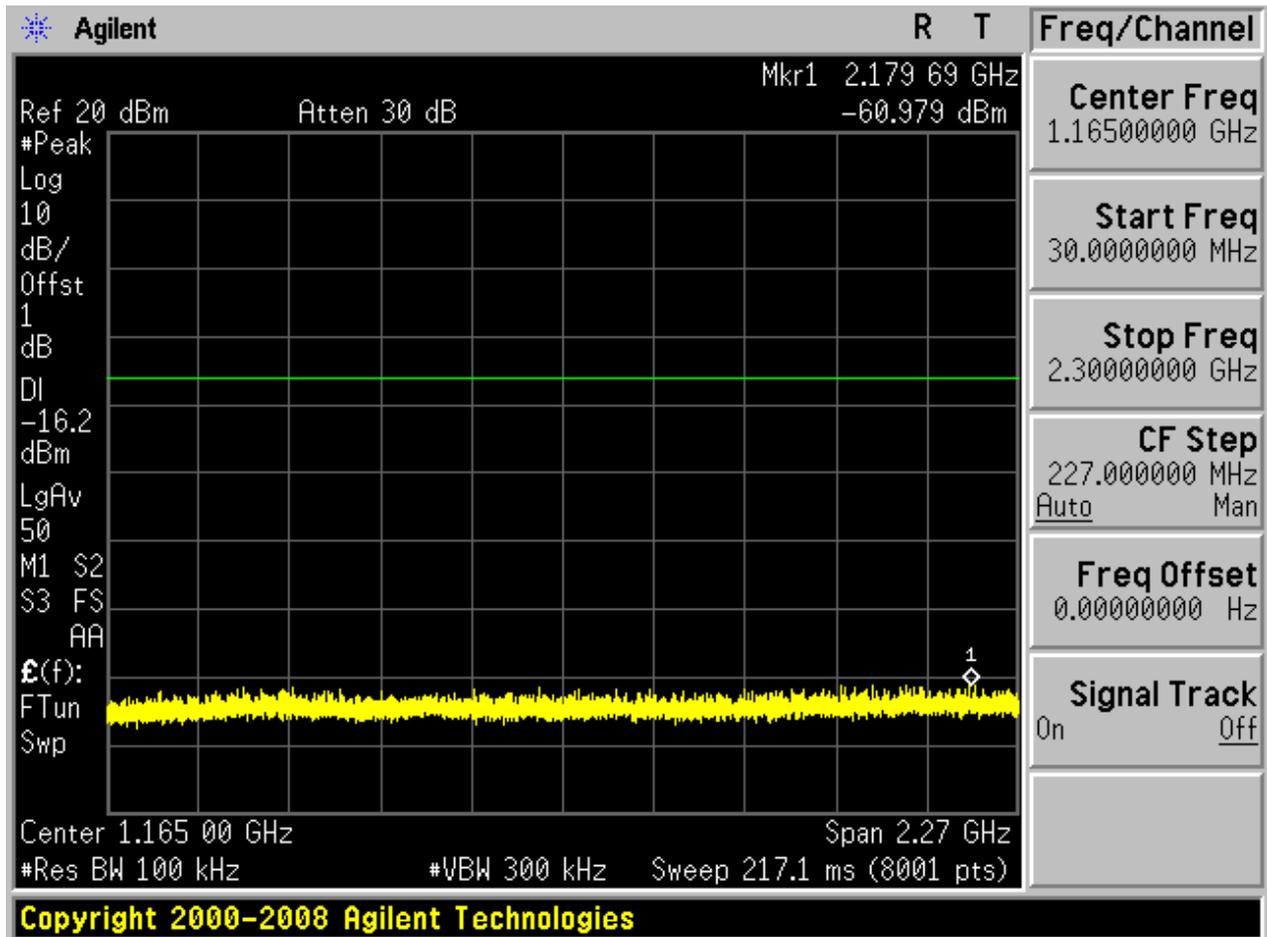
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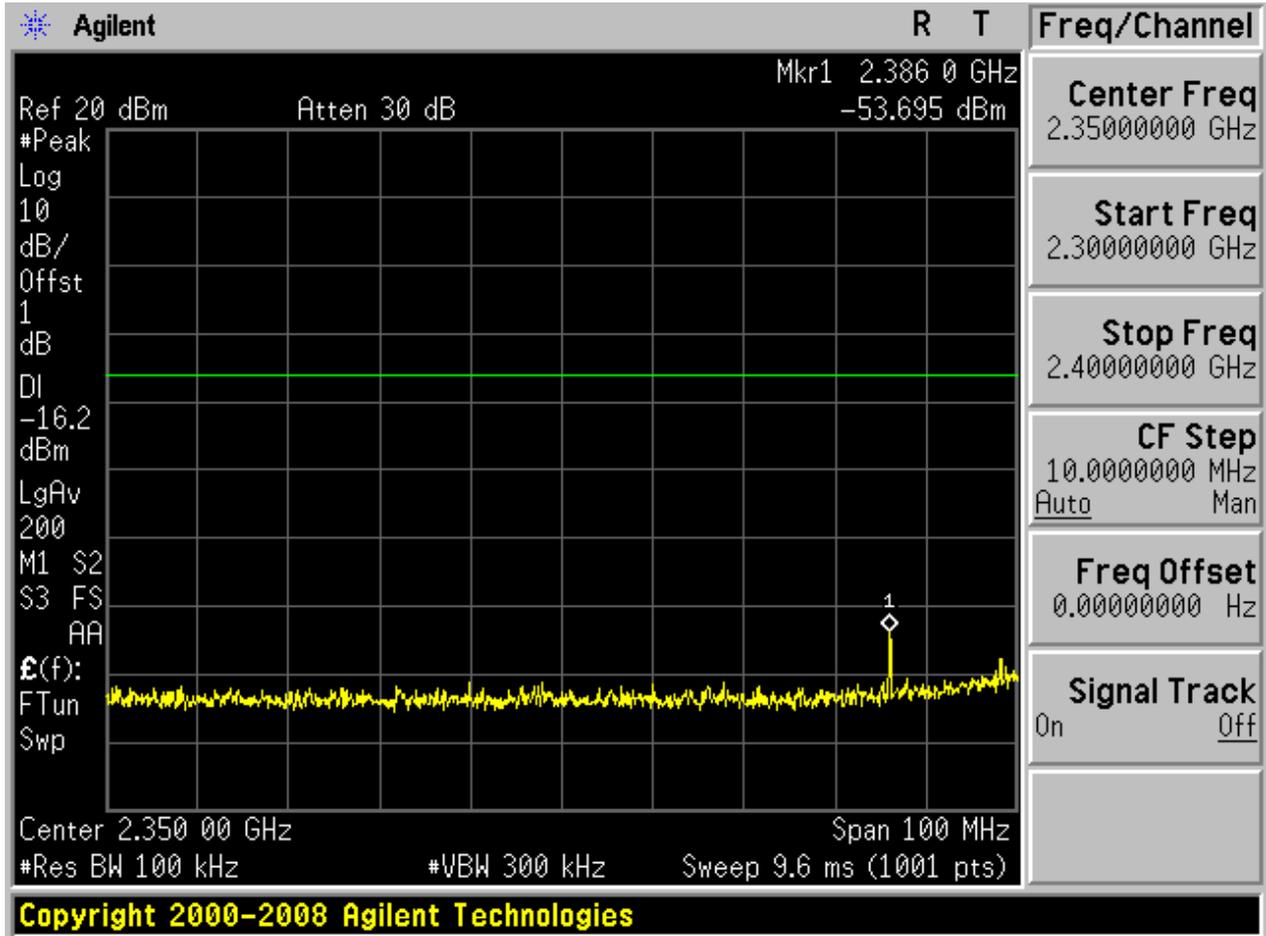


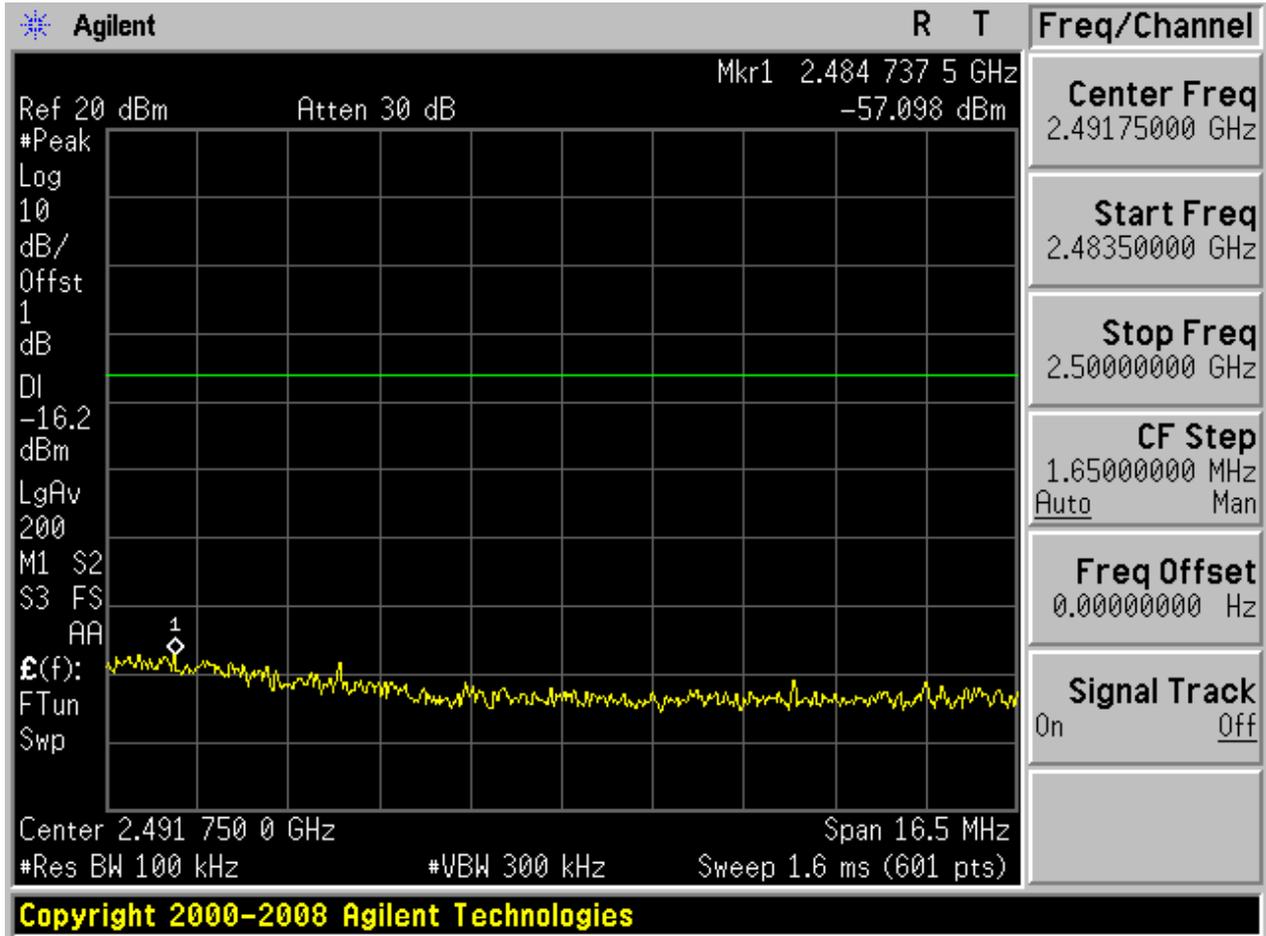
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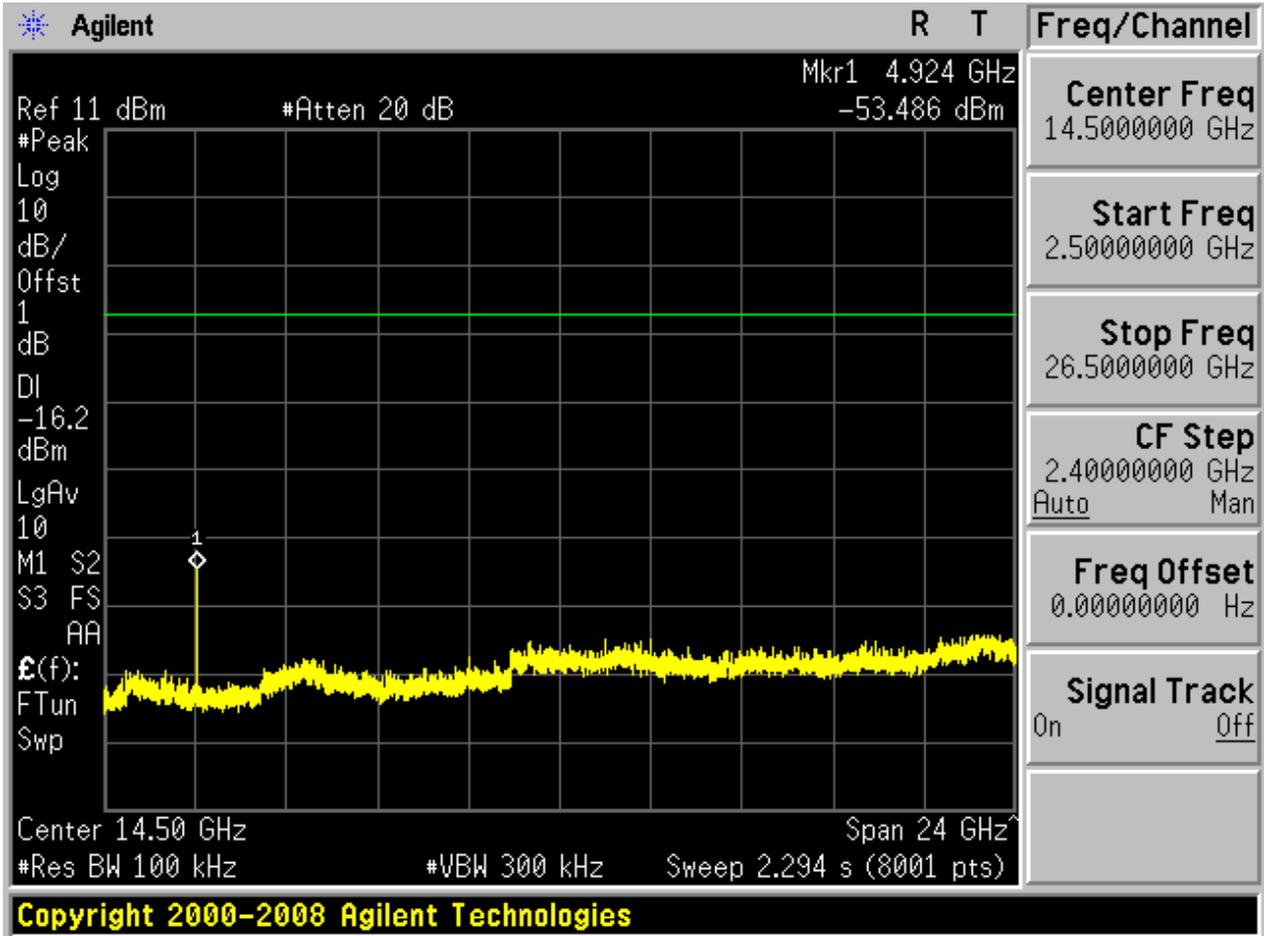






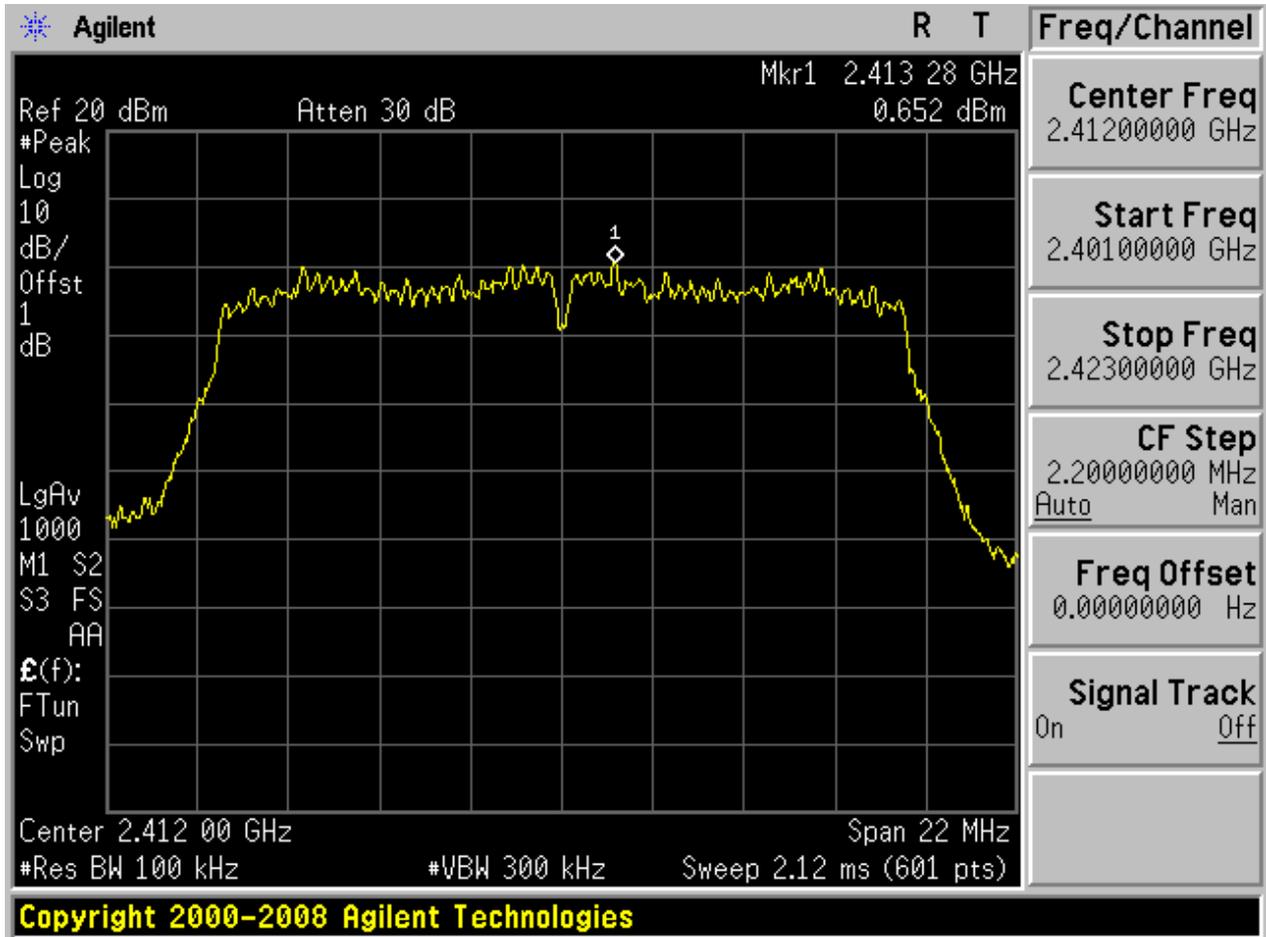




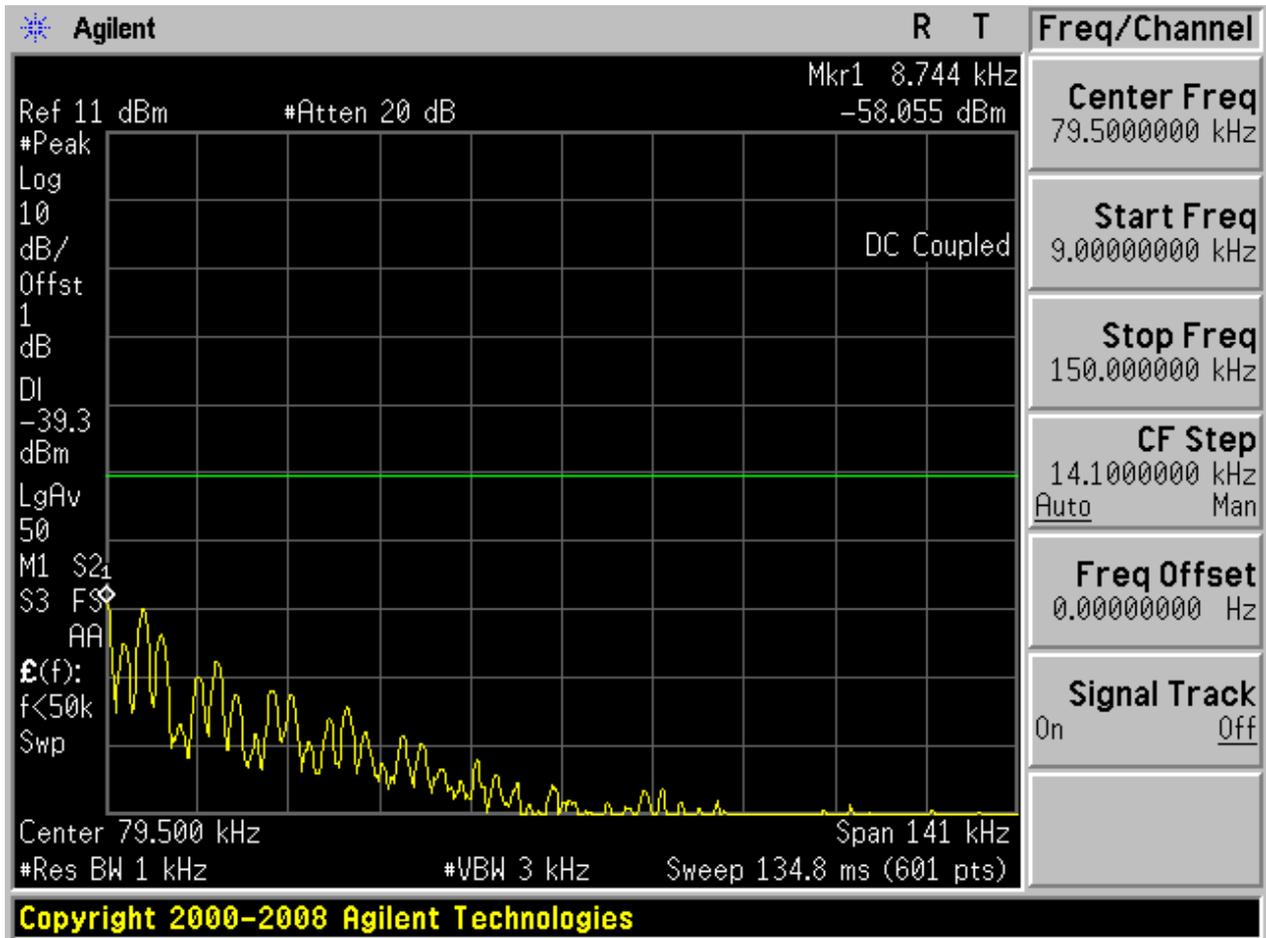


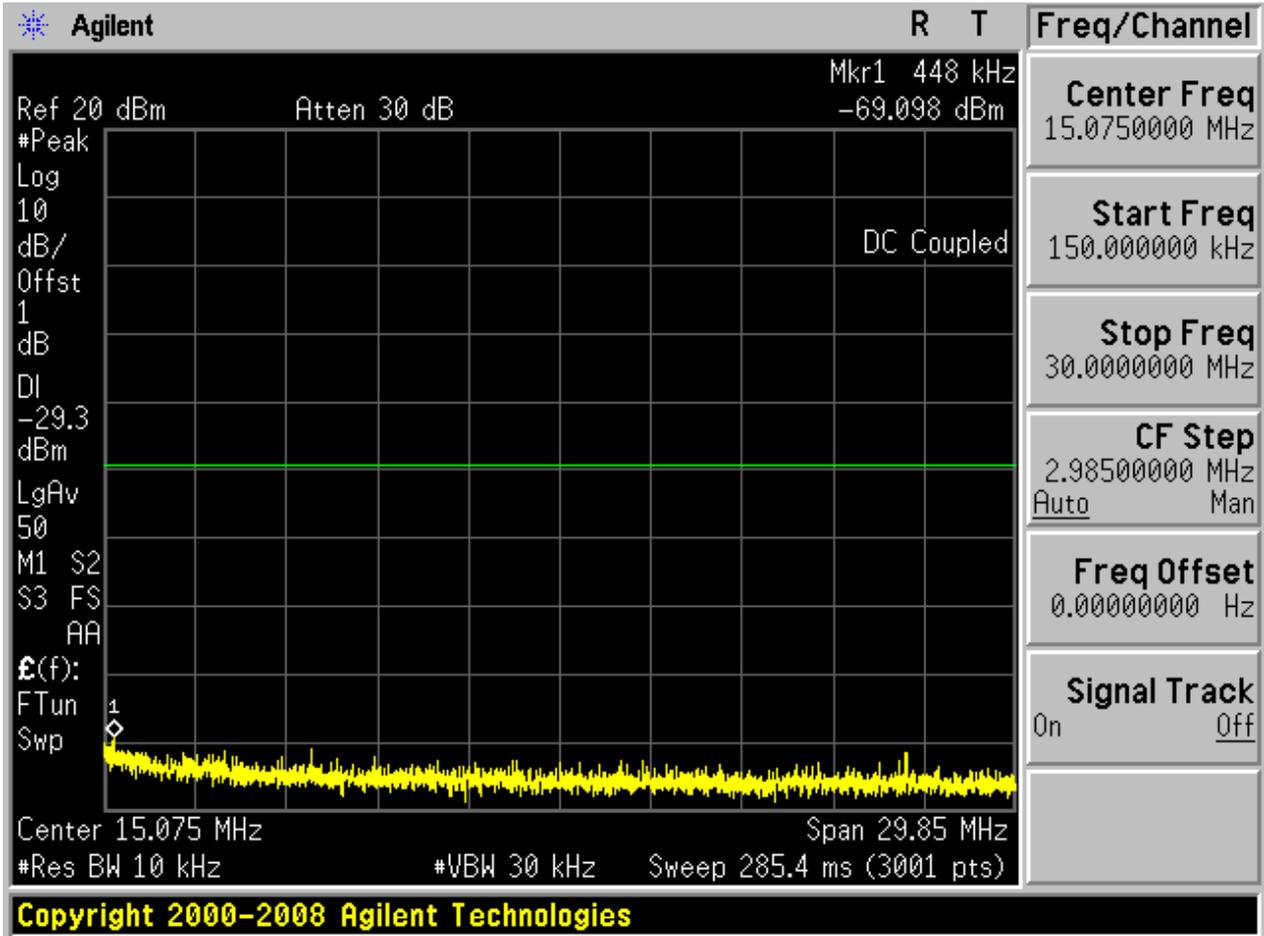
2.7 11G_L@Ant 1

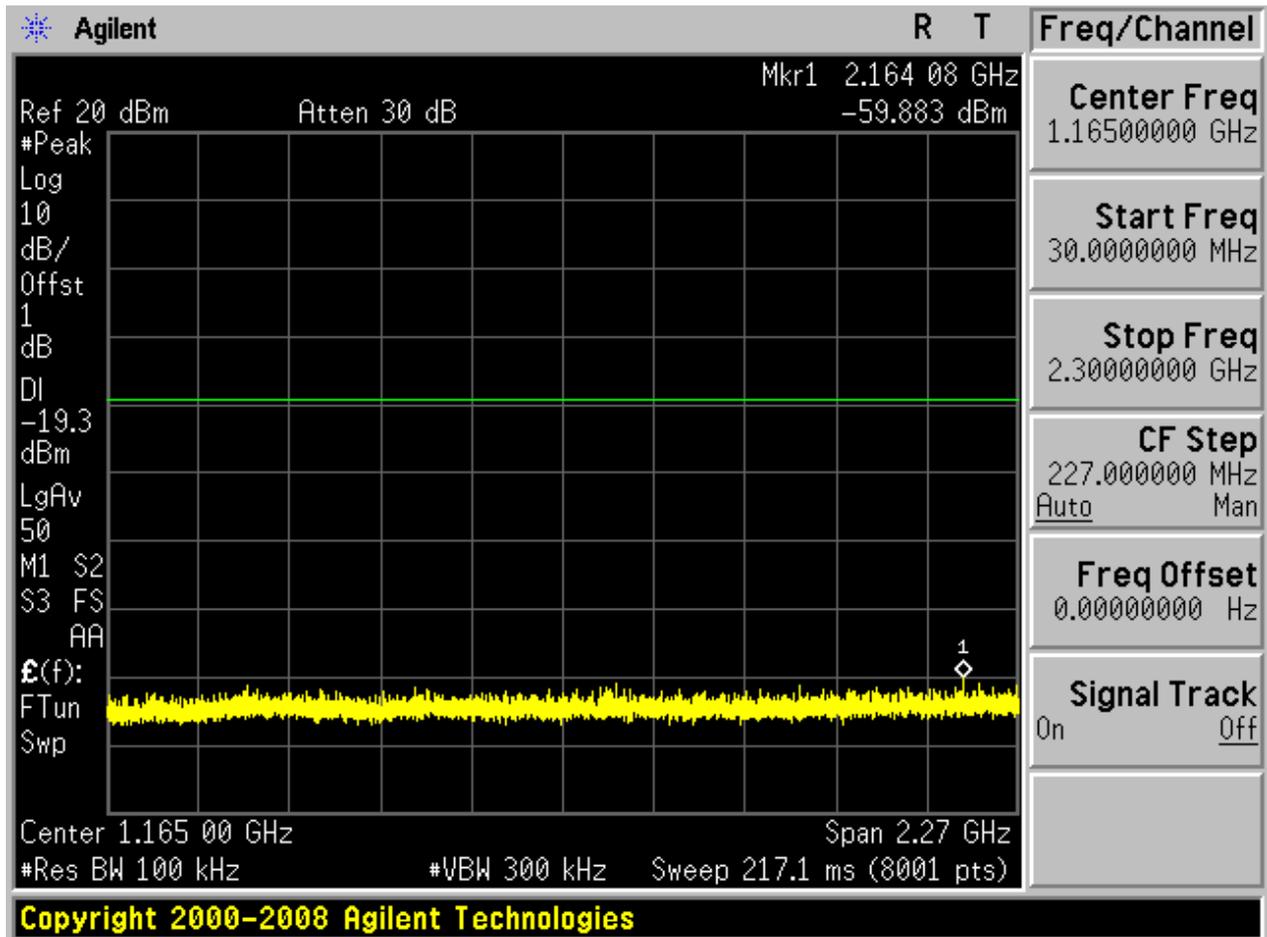
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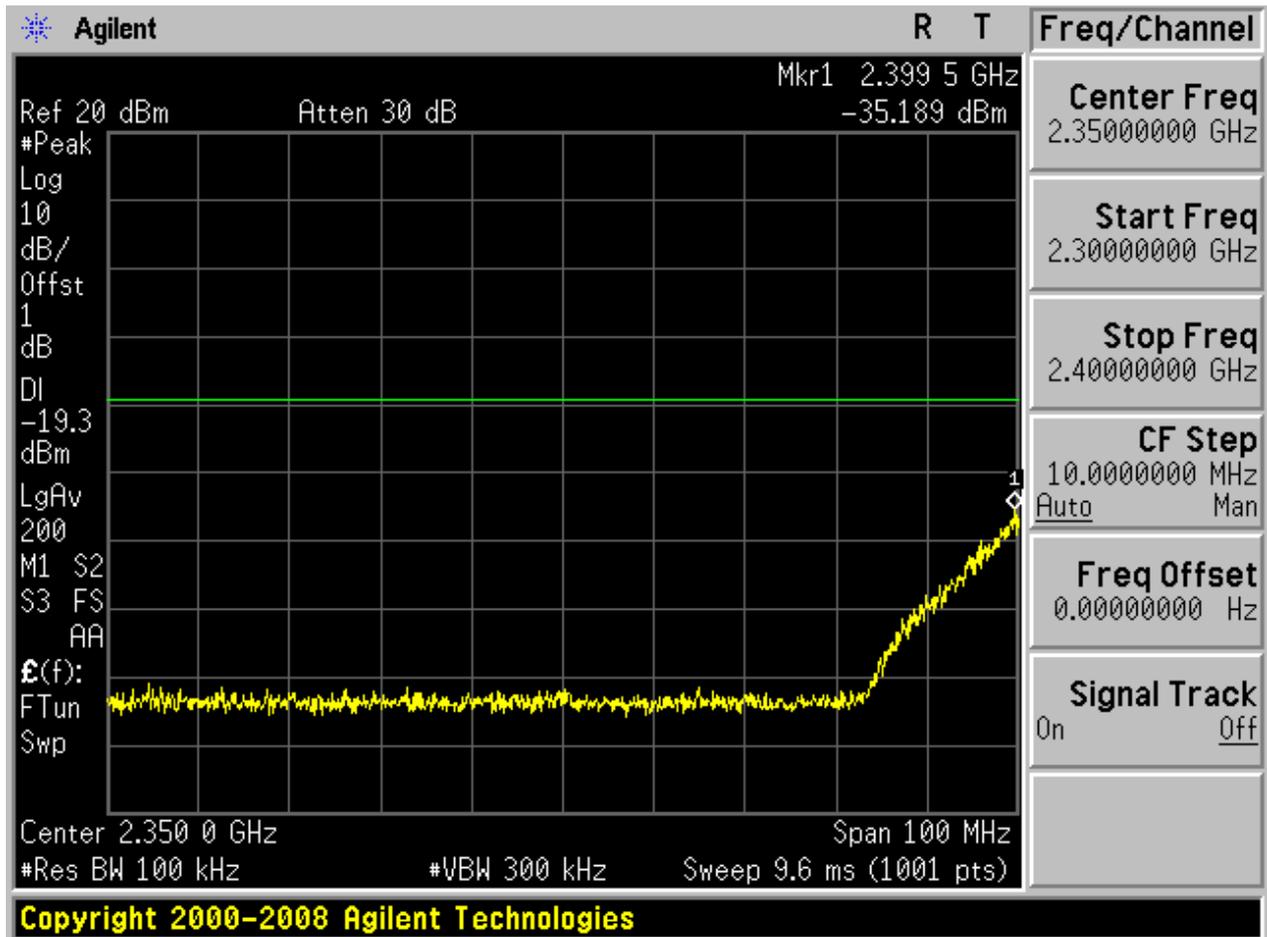


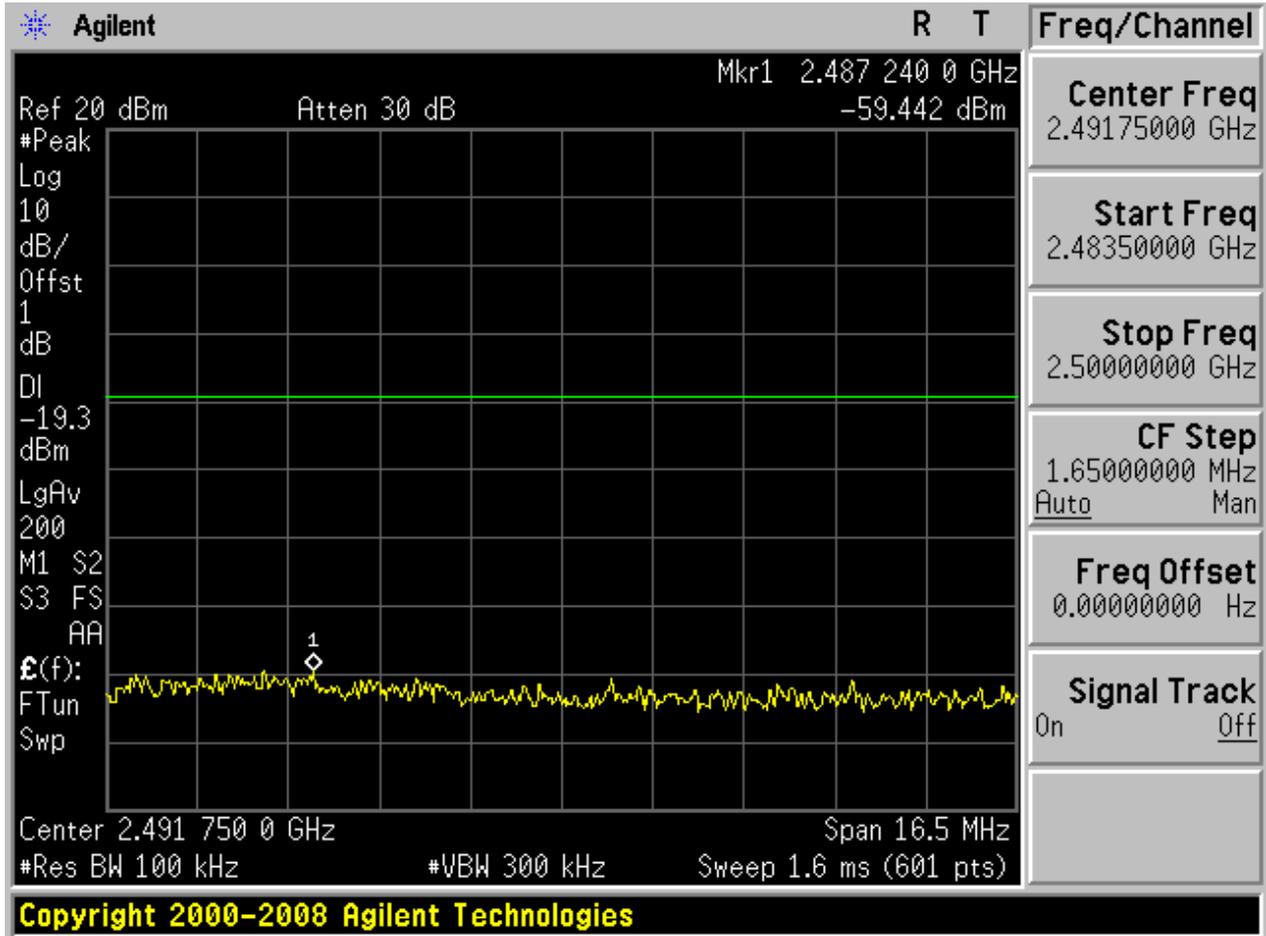
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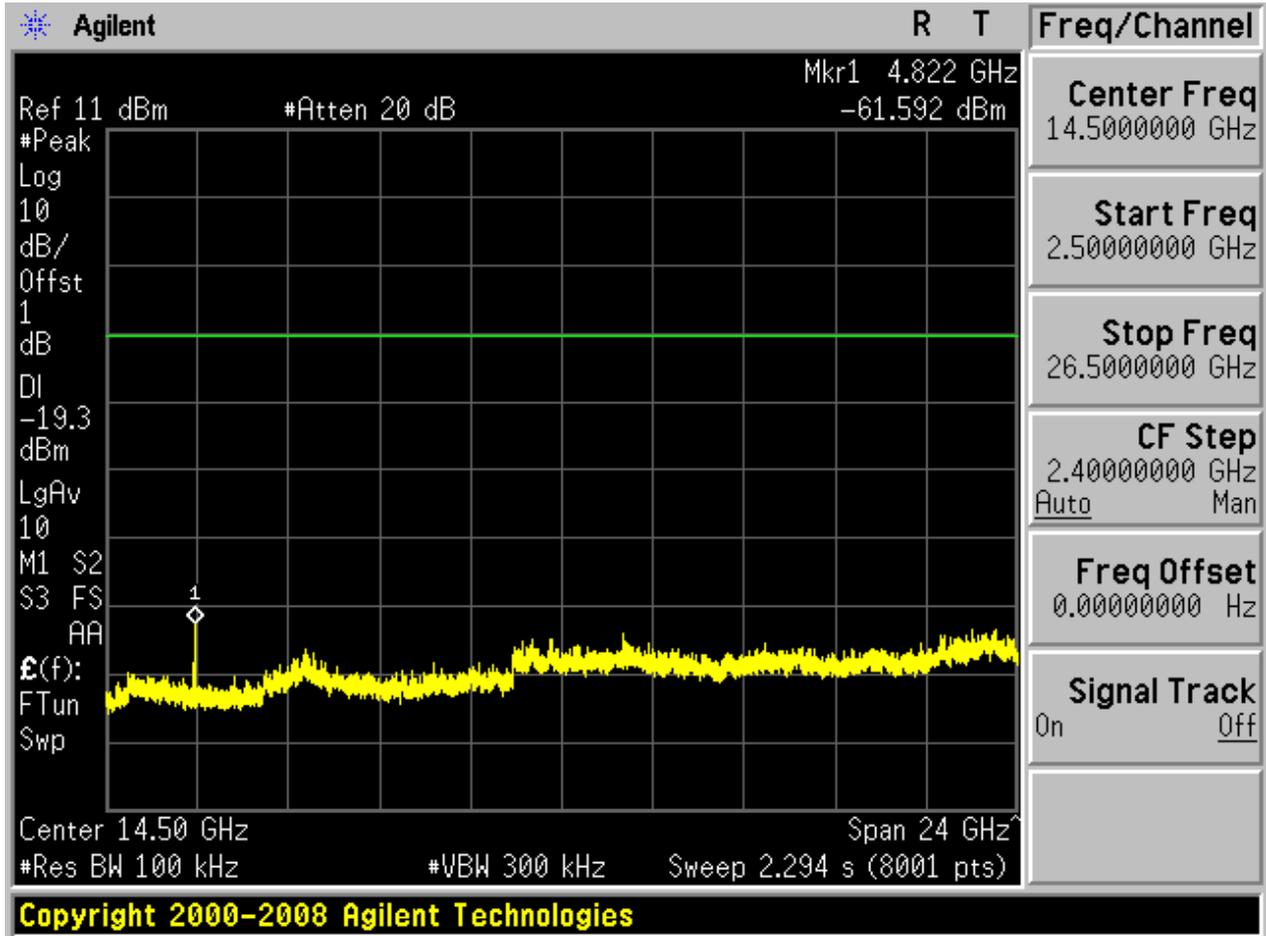






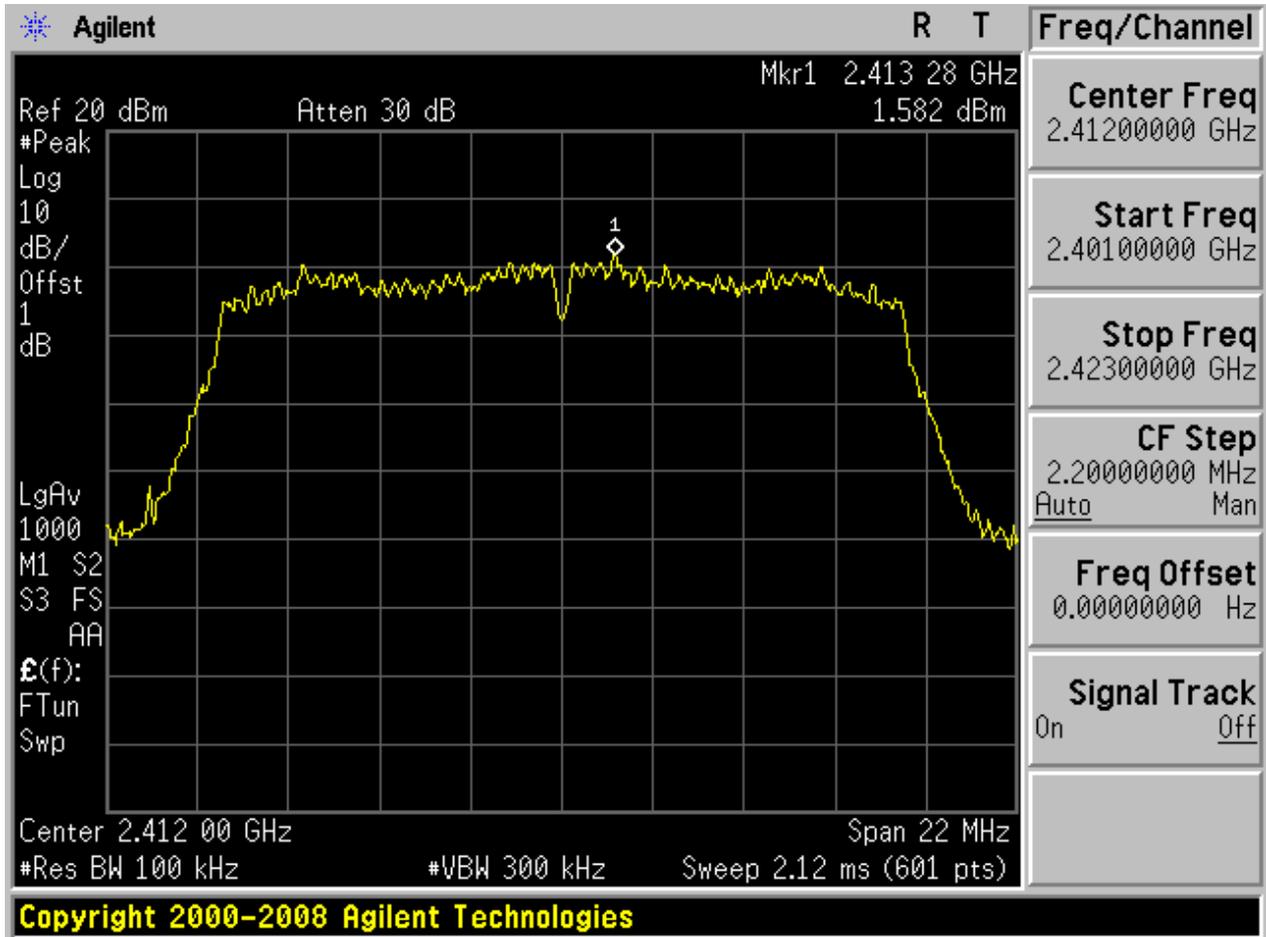




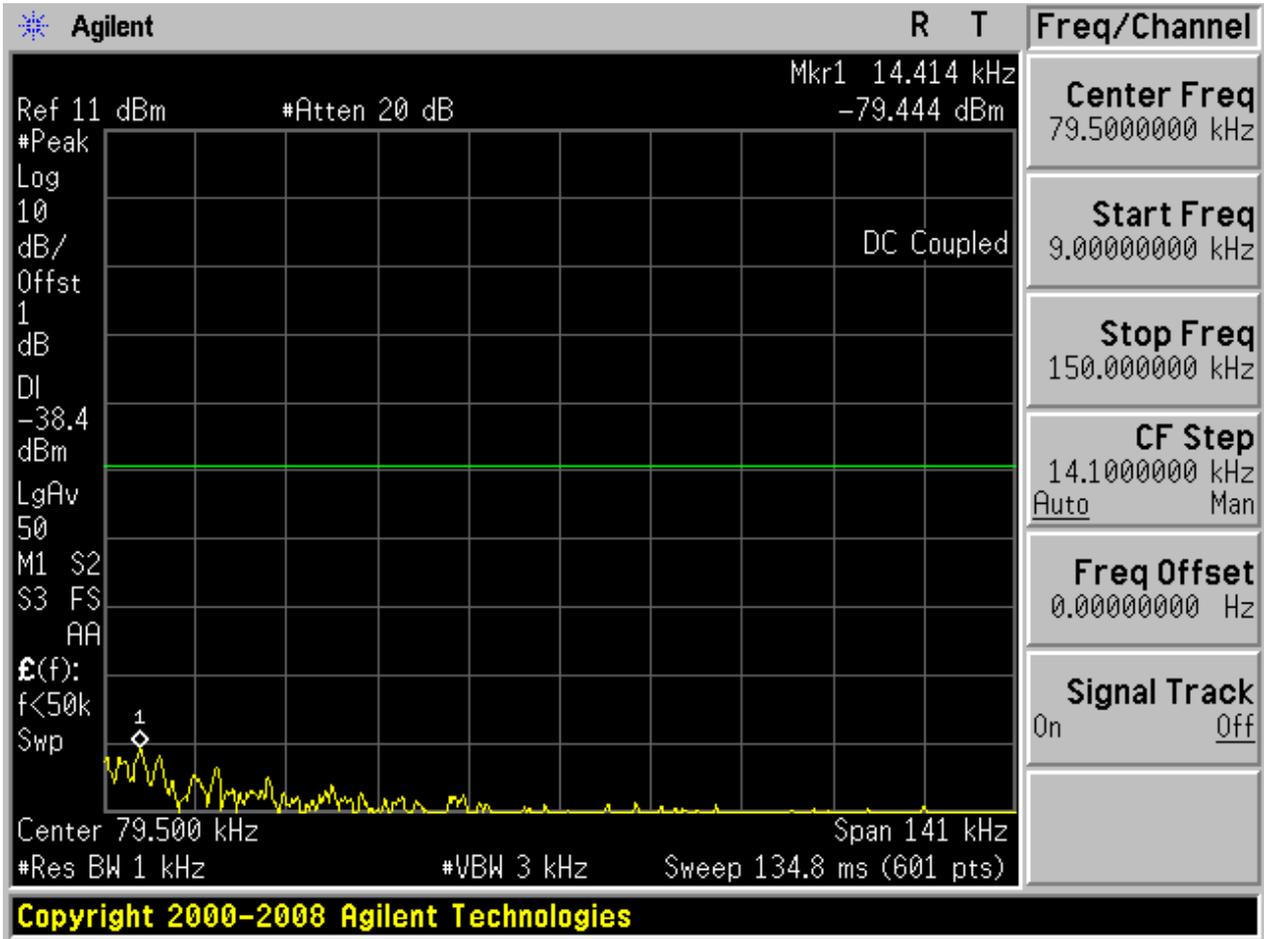


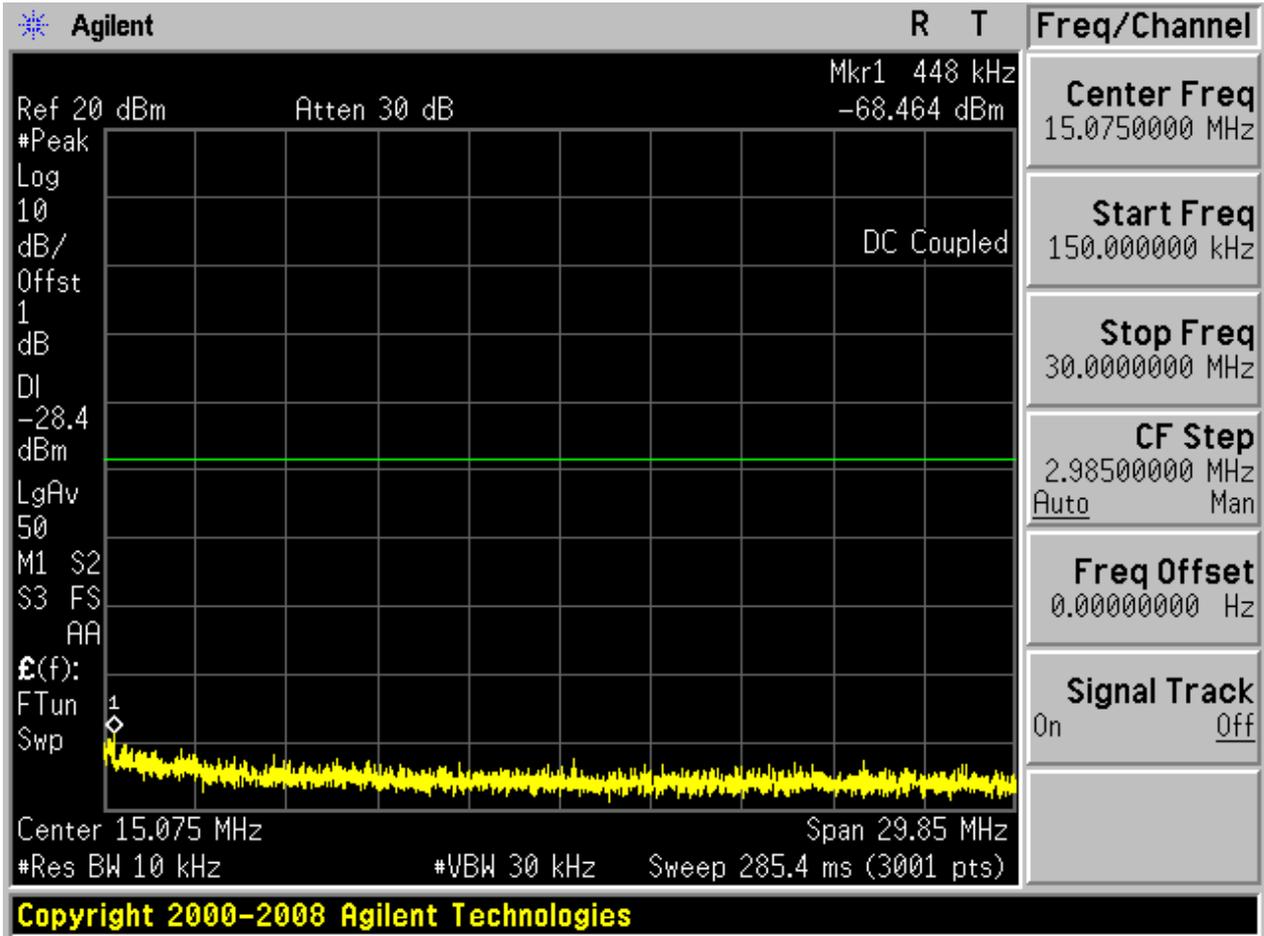
2.8 11G_L@Ant 2

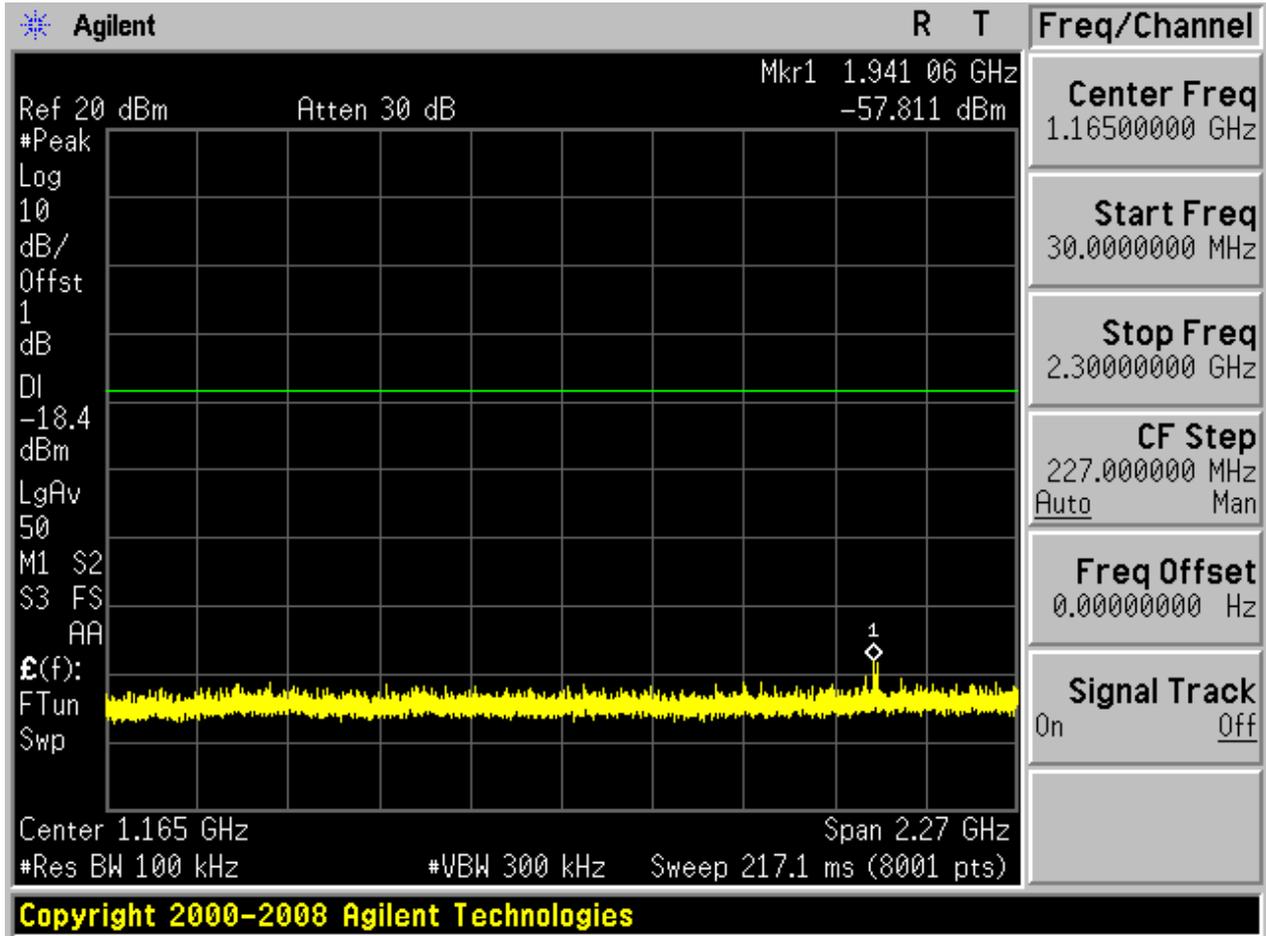
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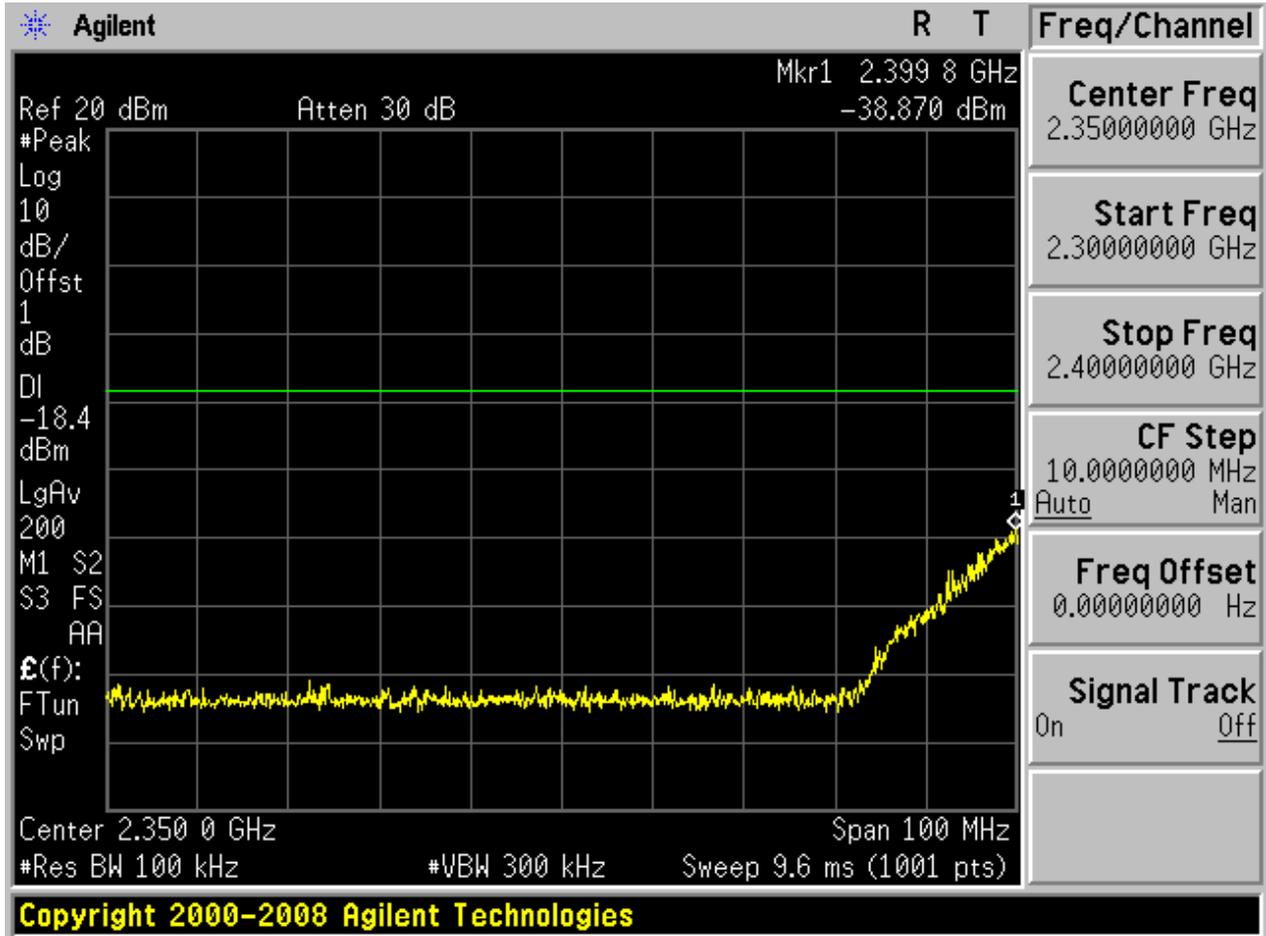


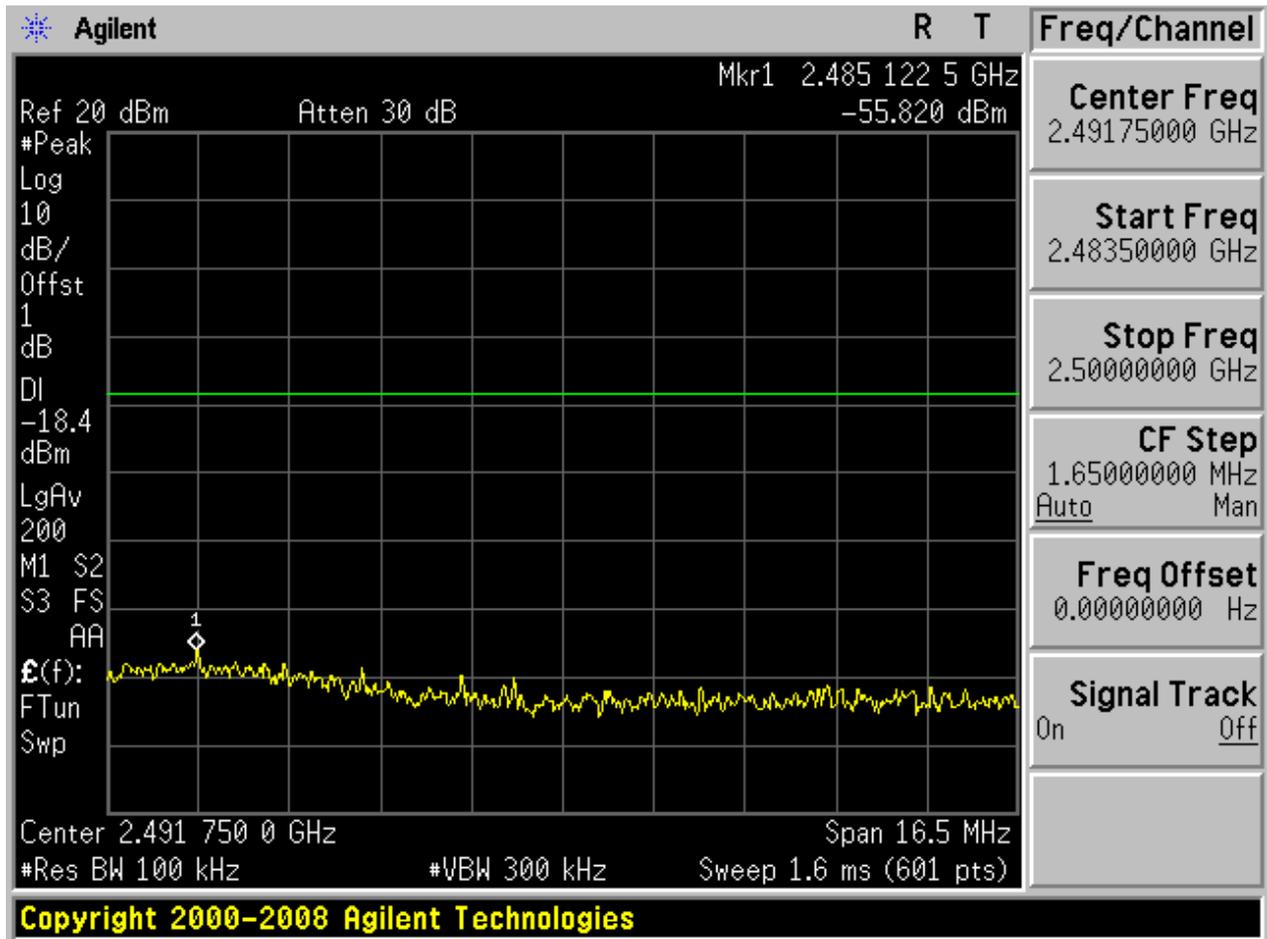
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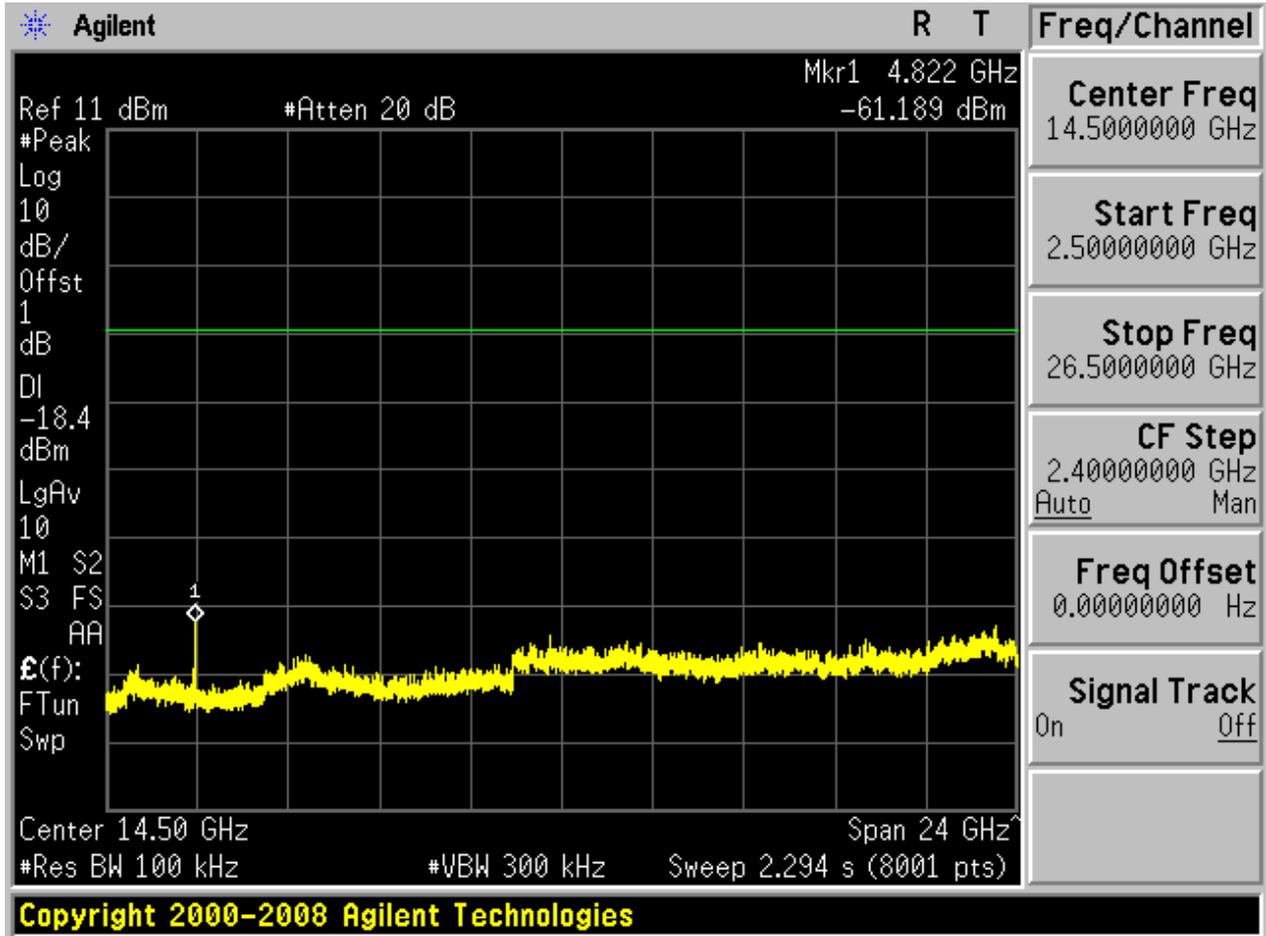






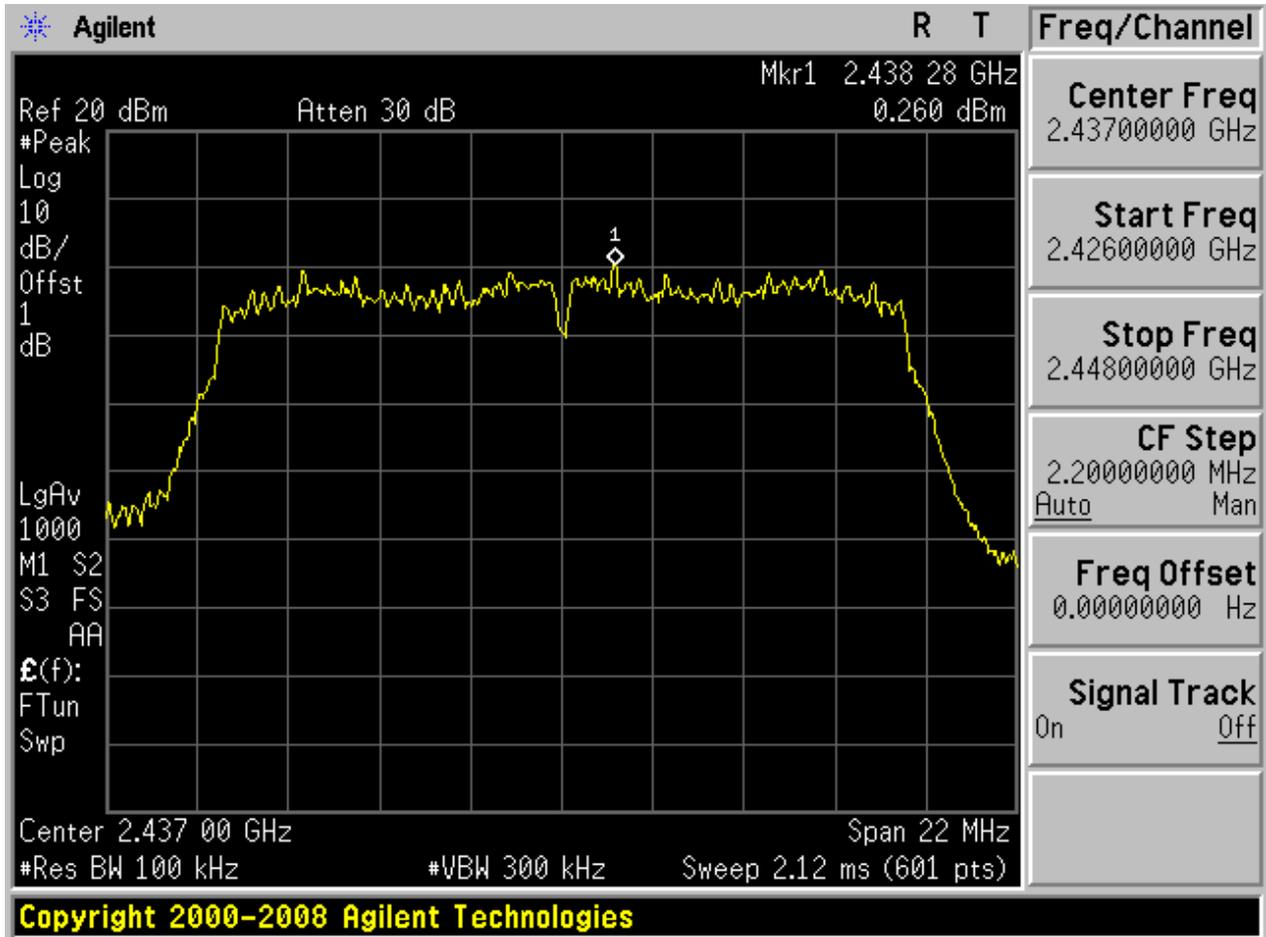




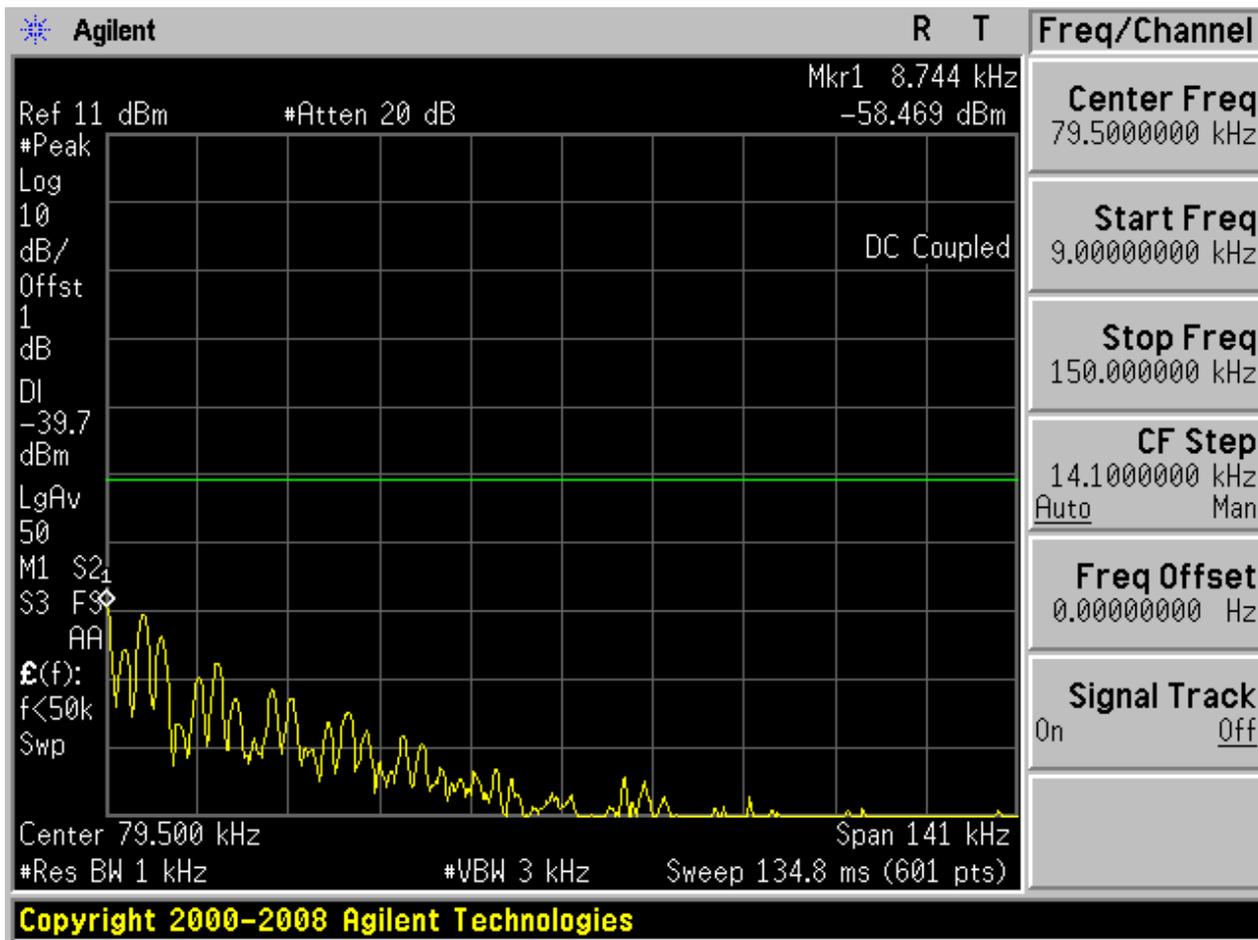


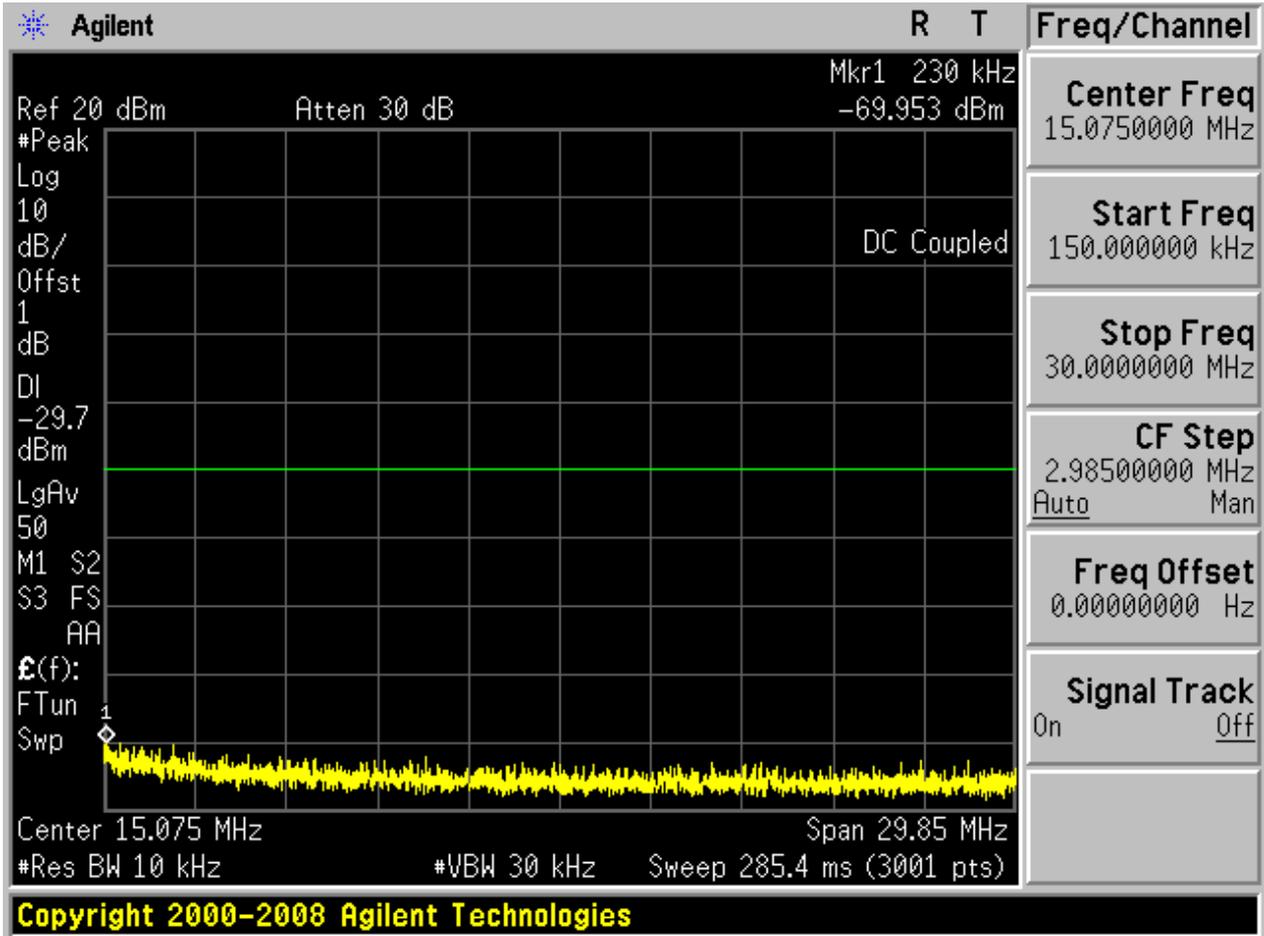
2.9 11G_M@Ant 1

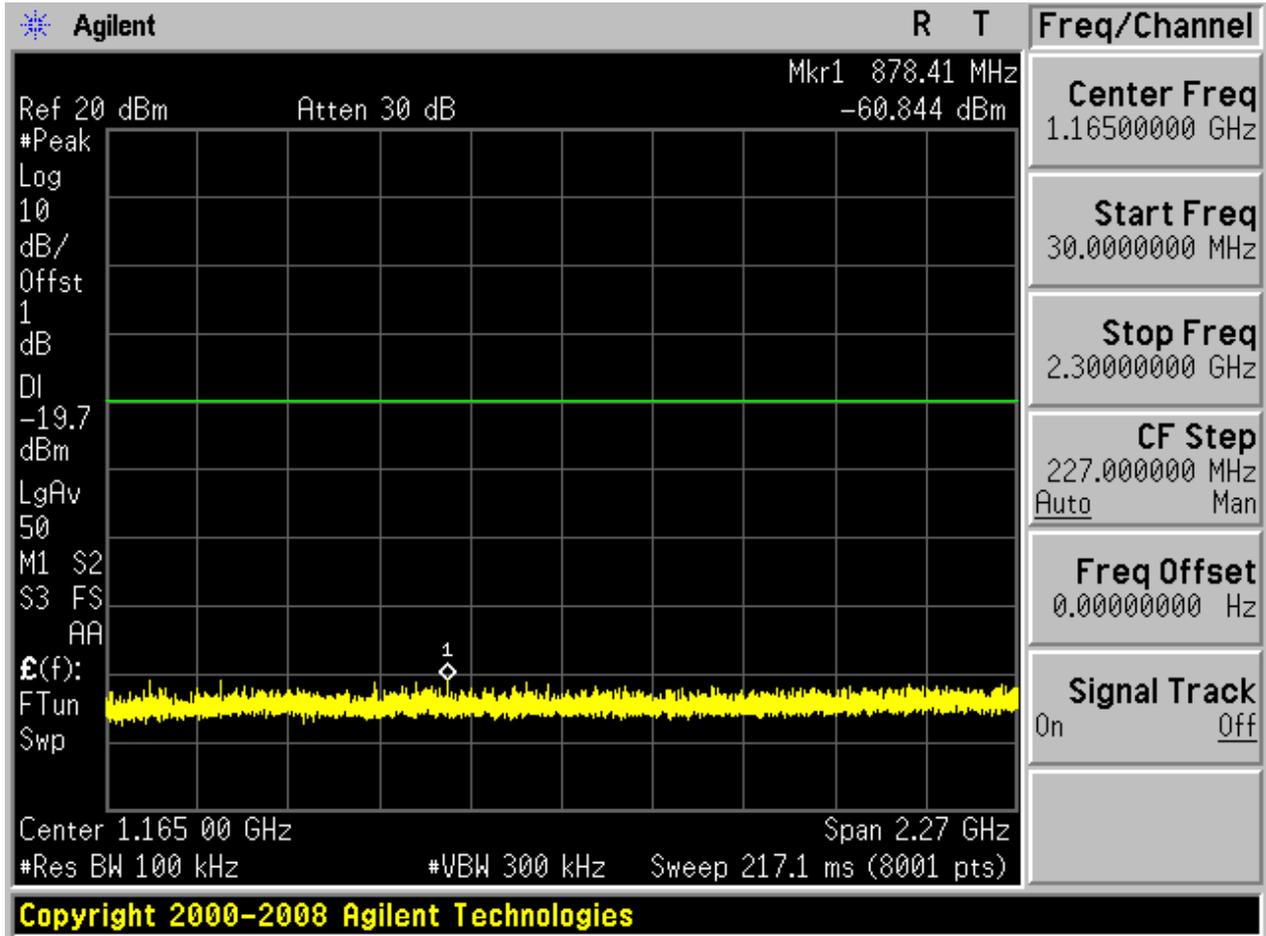
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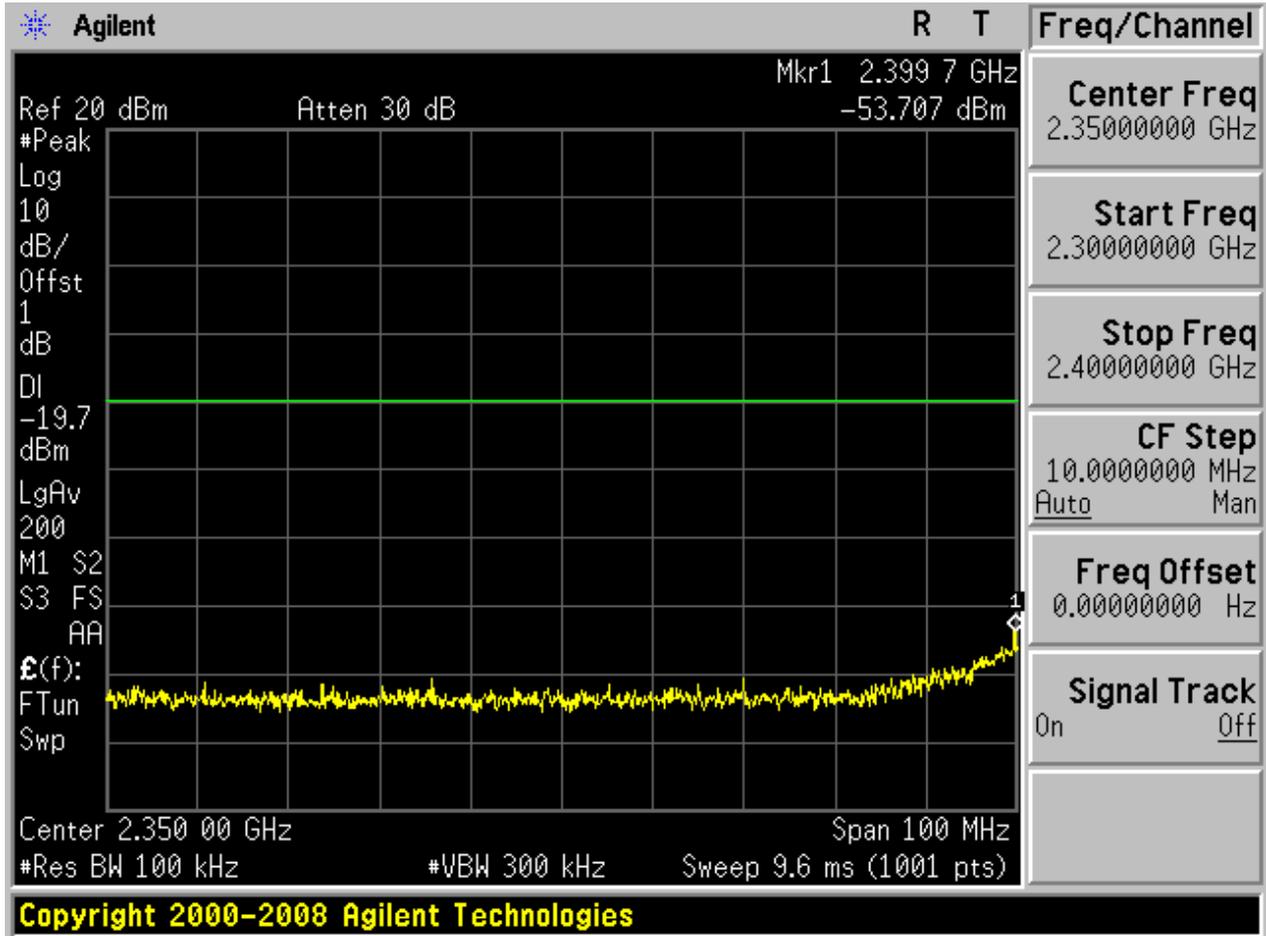


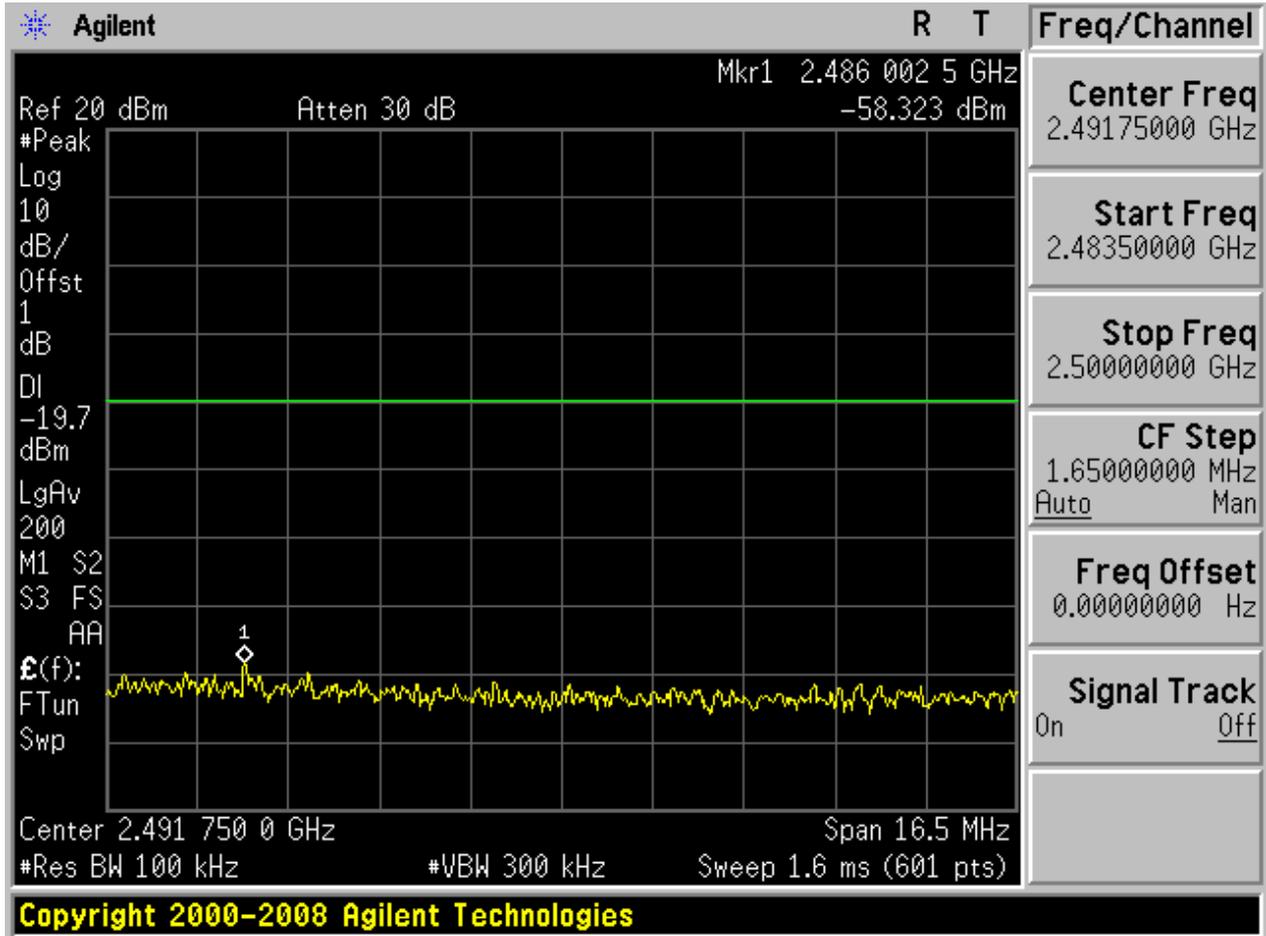
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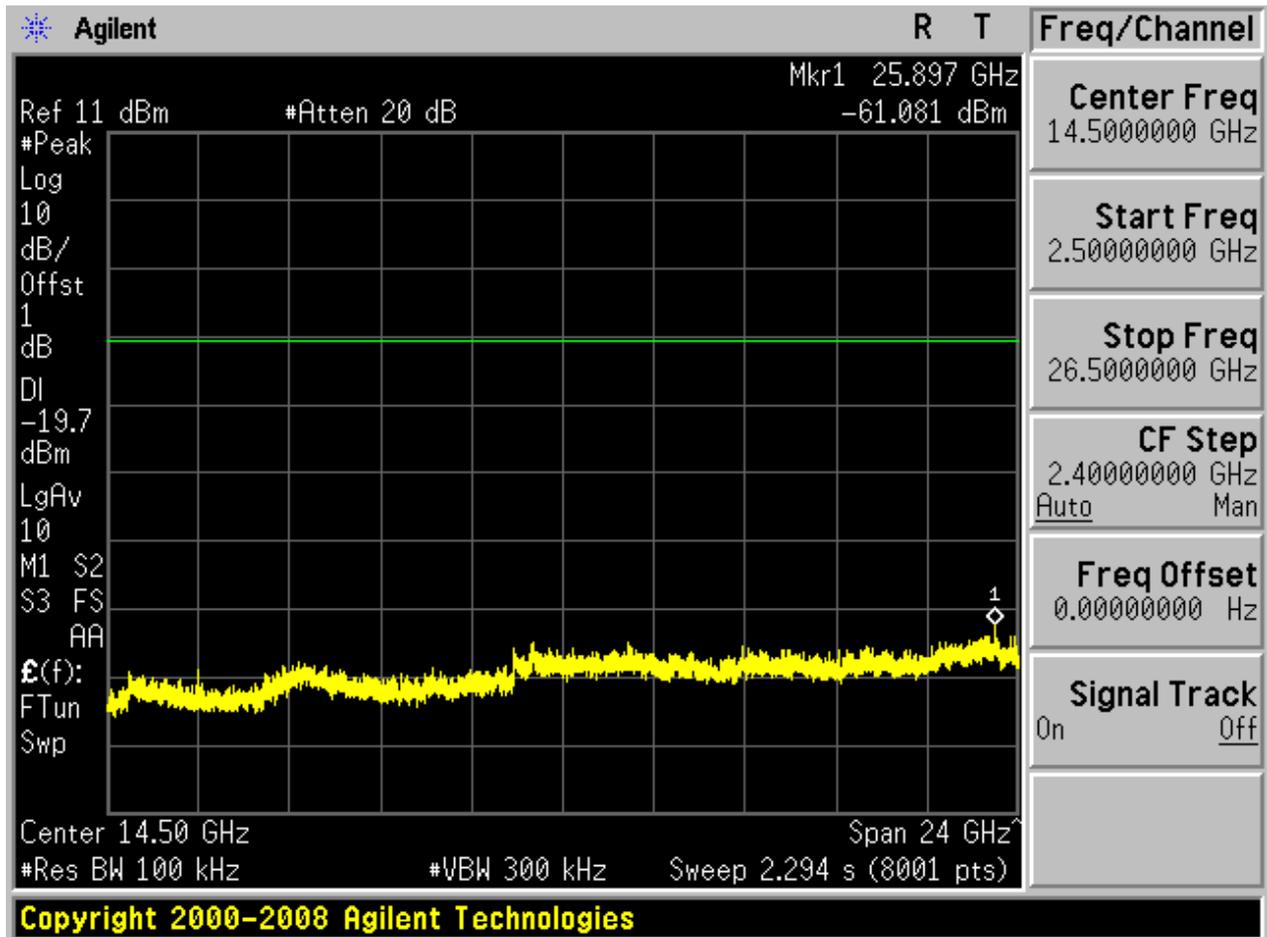






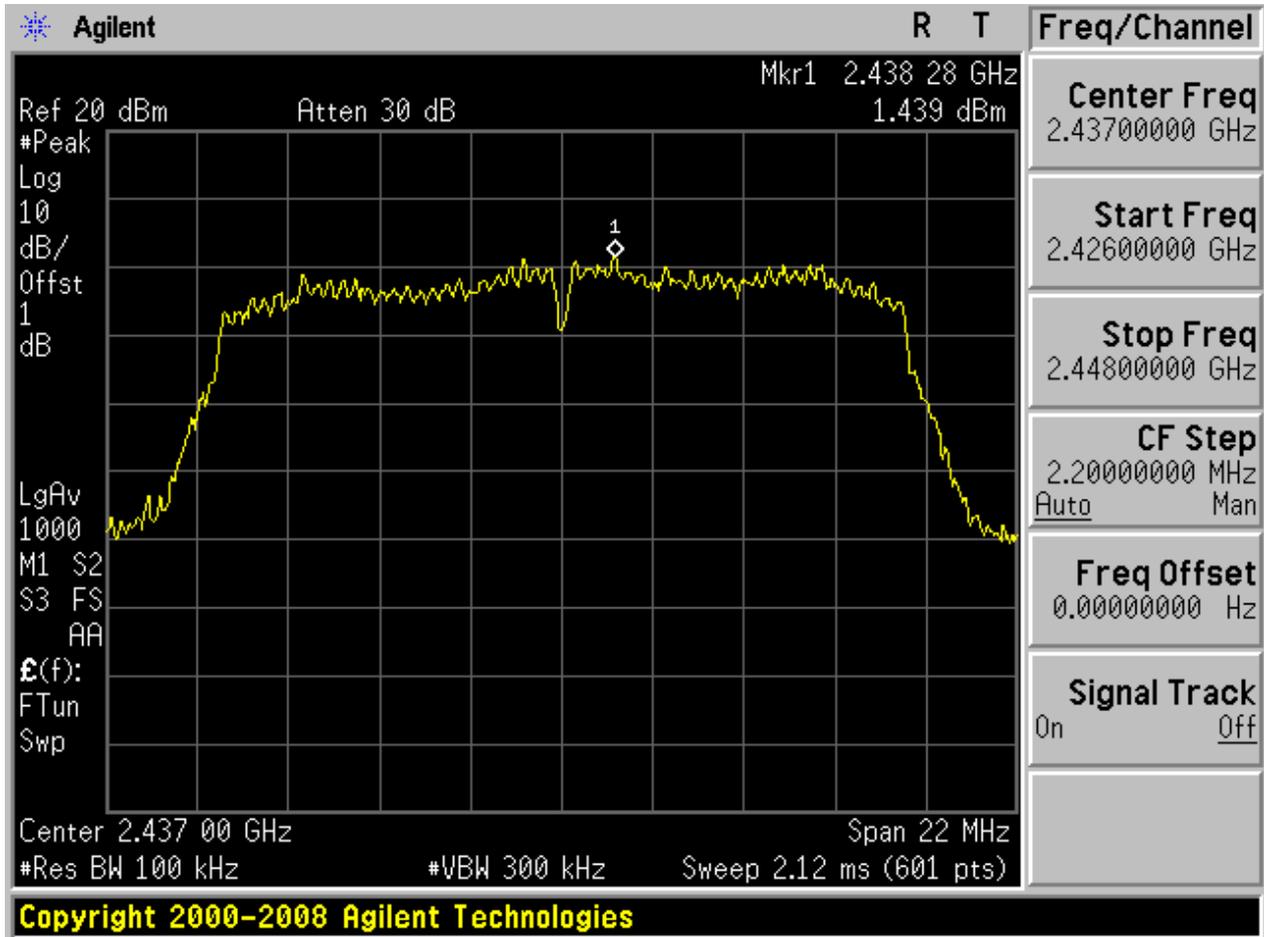




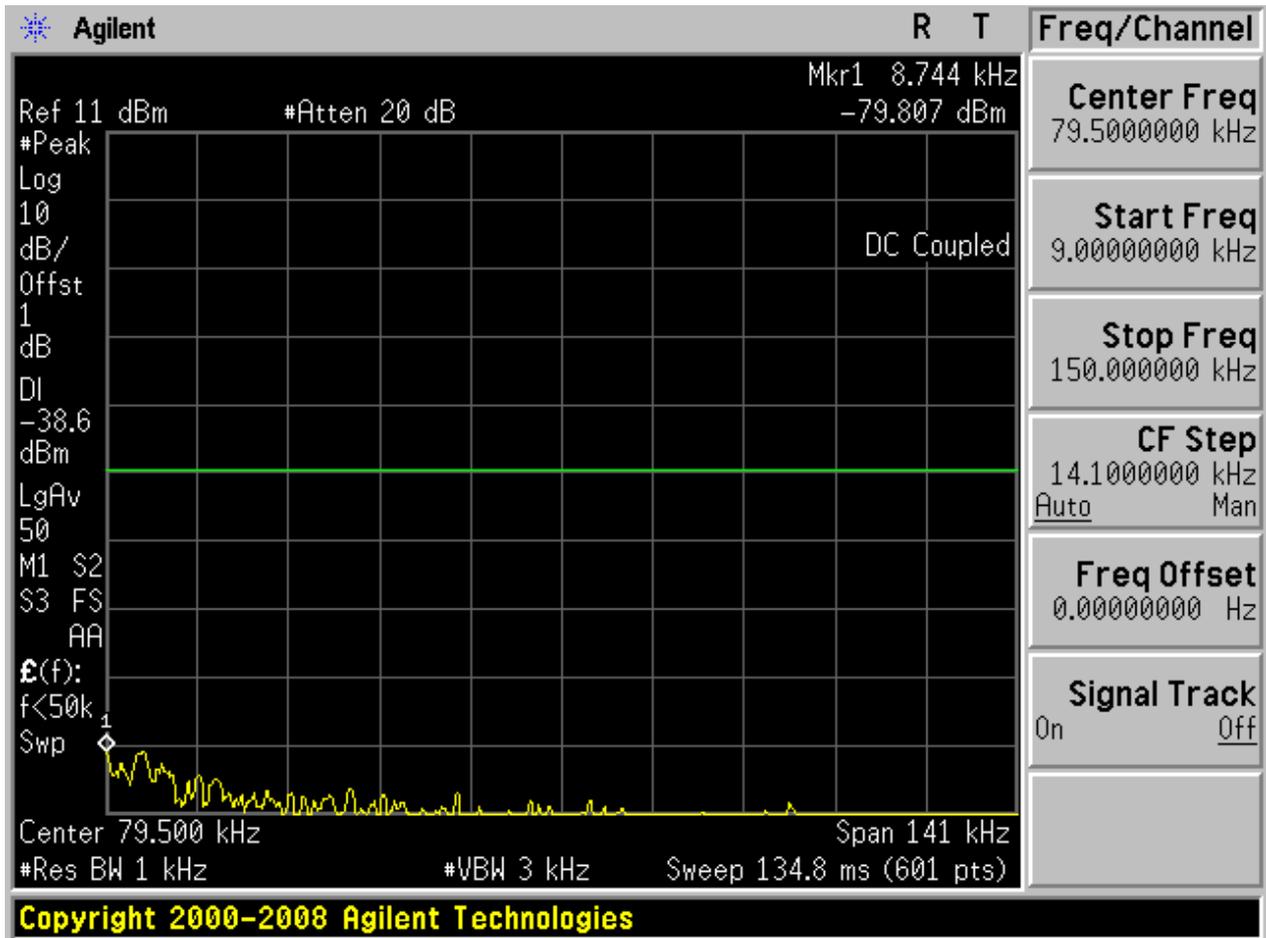


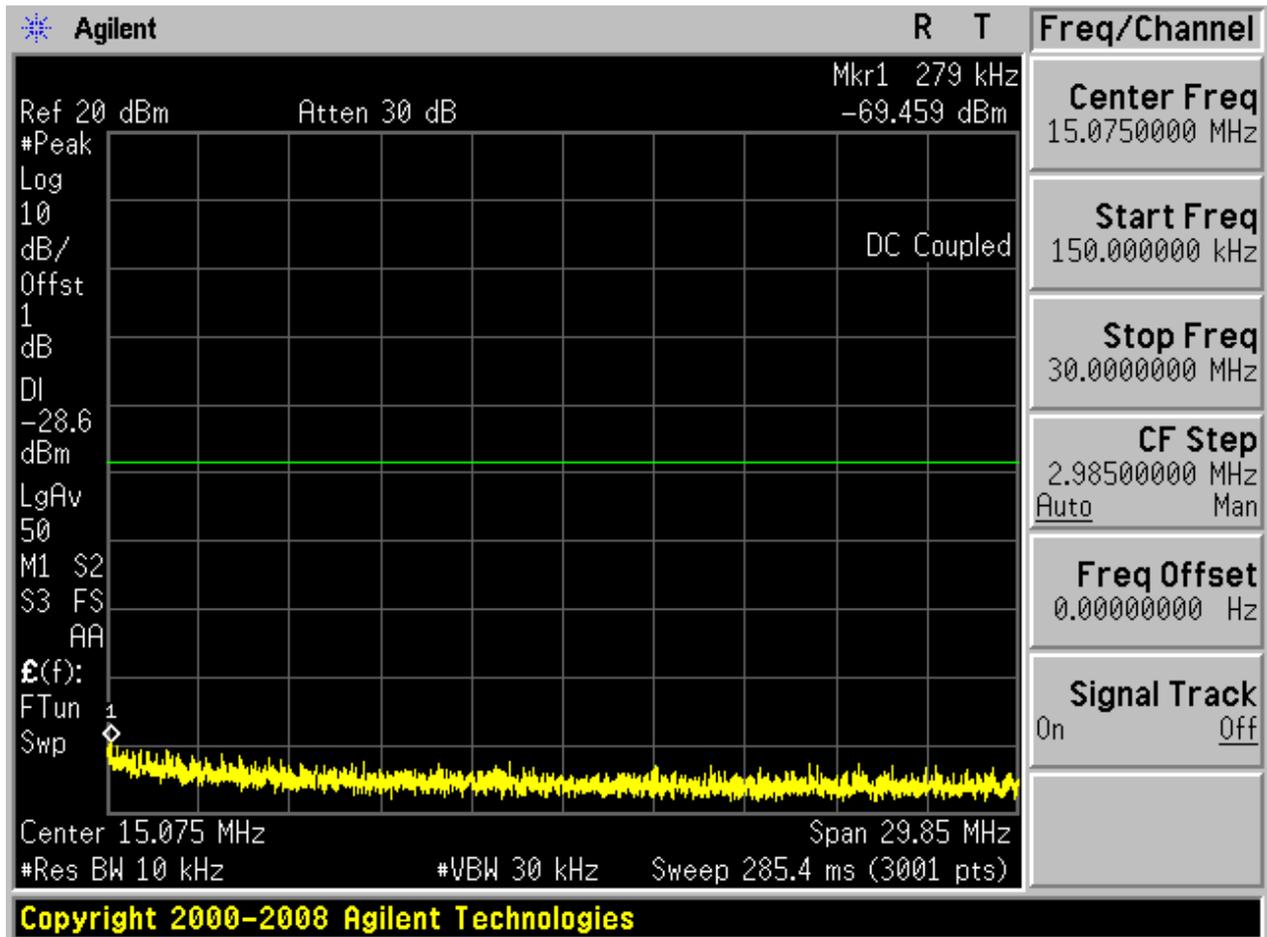
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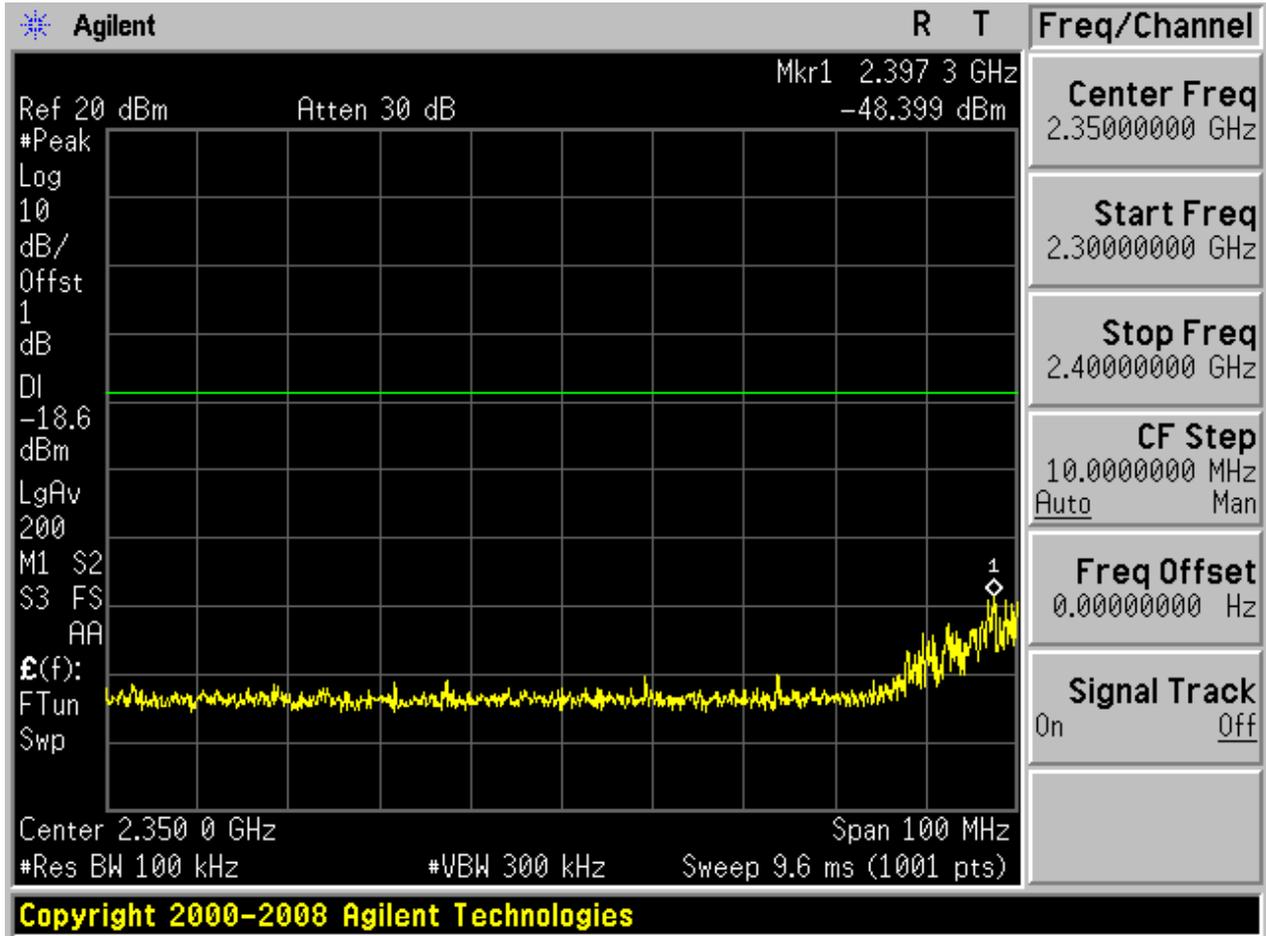
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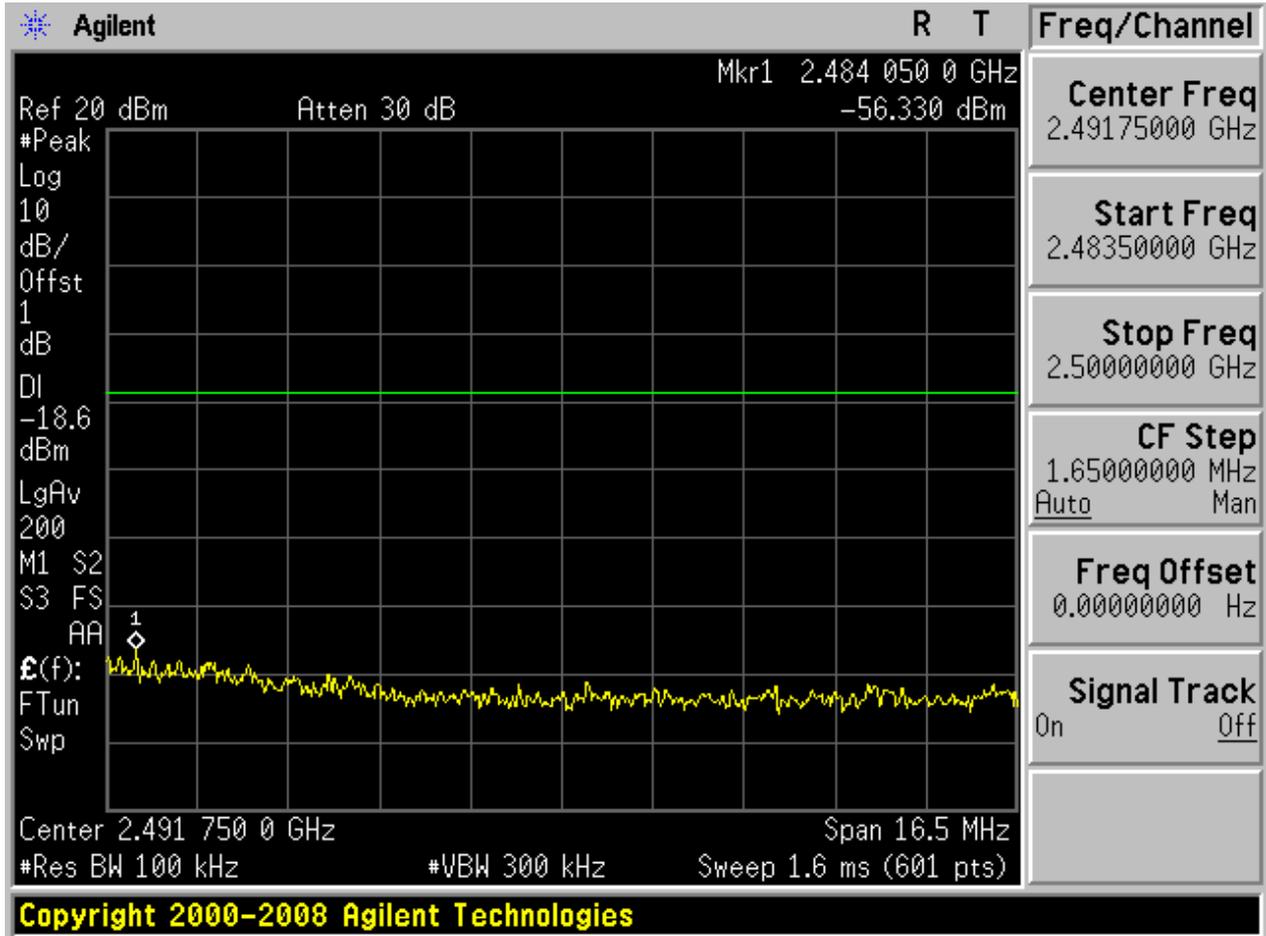


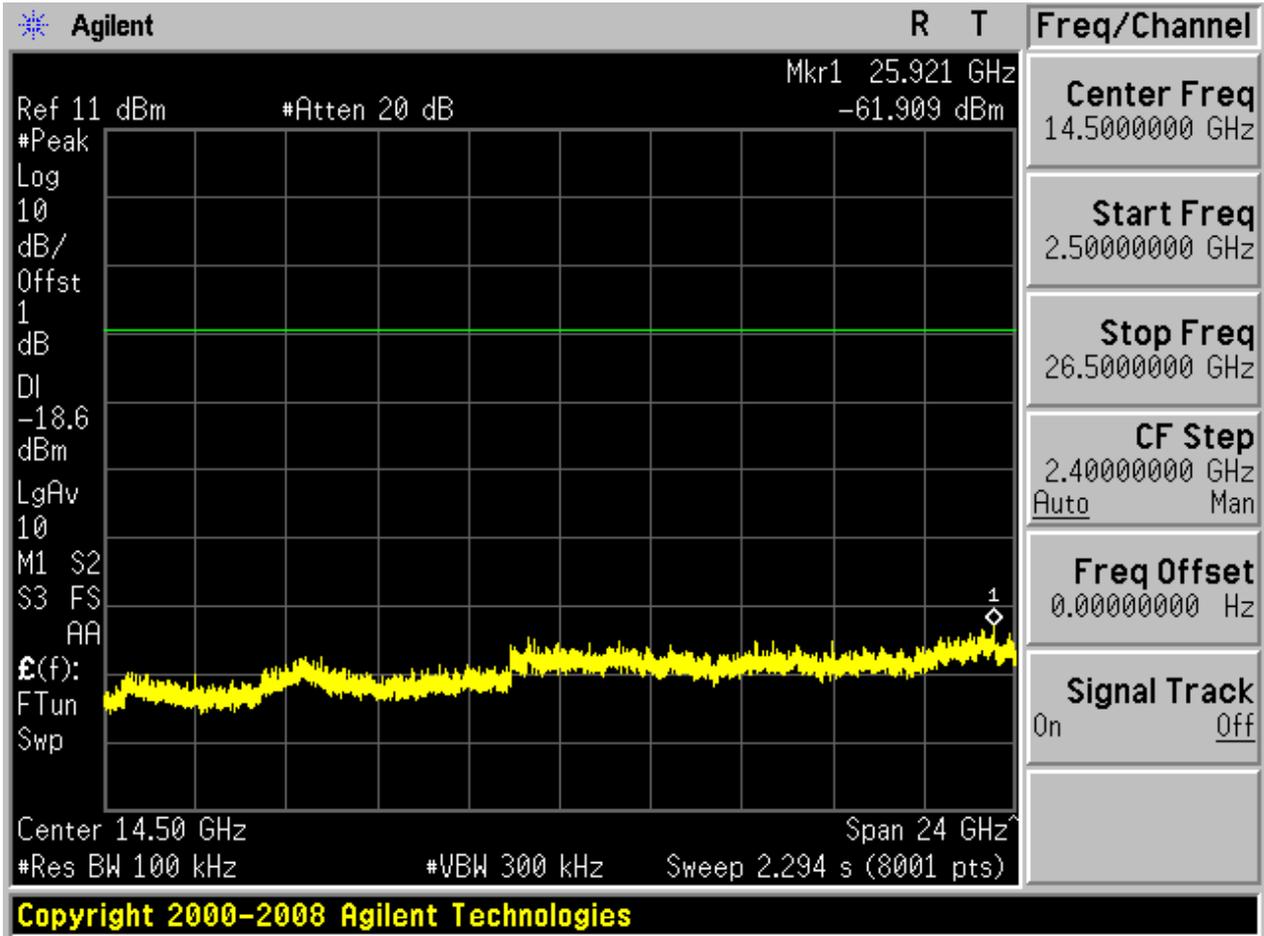
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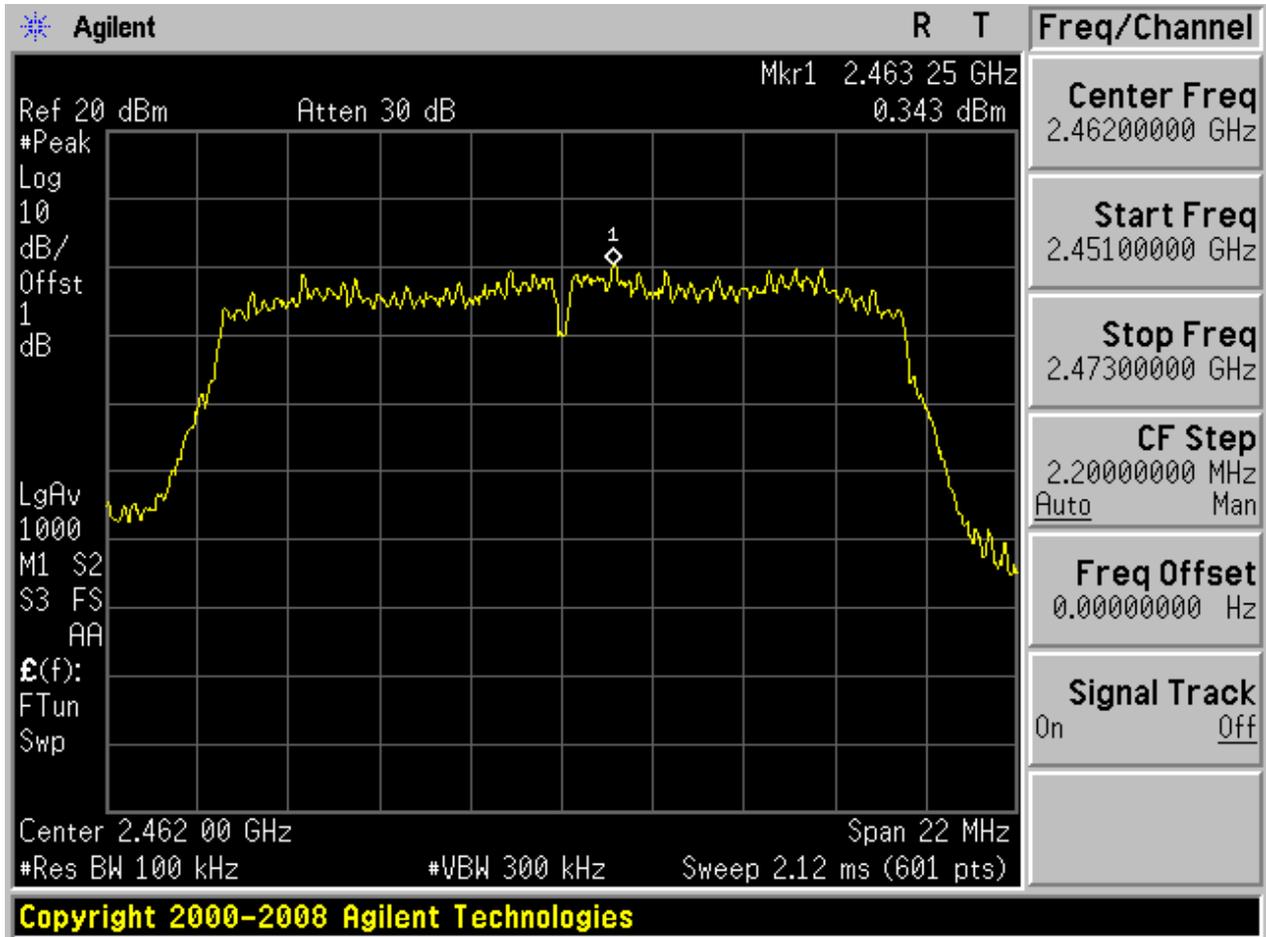




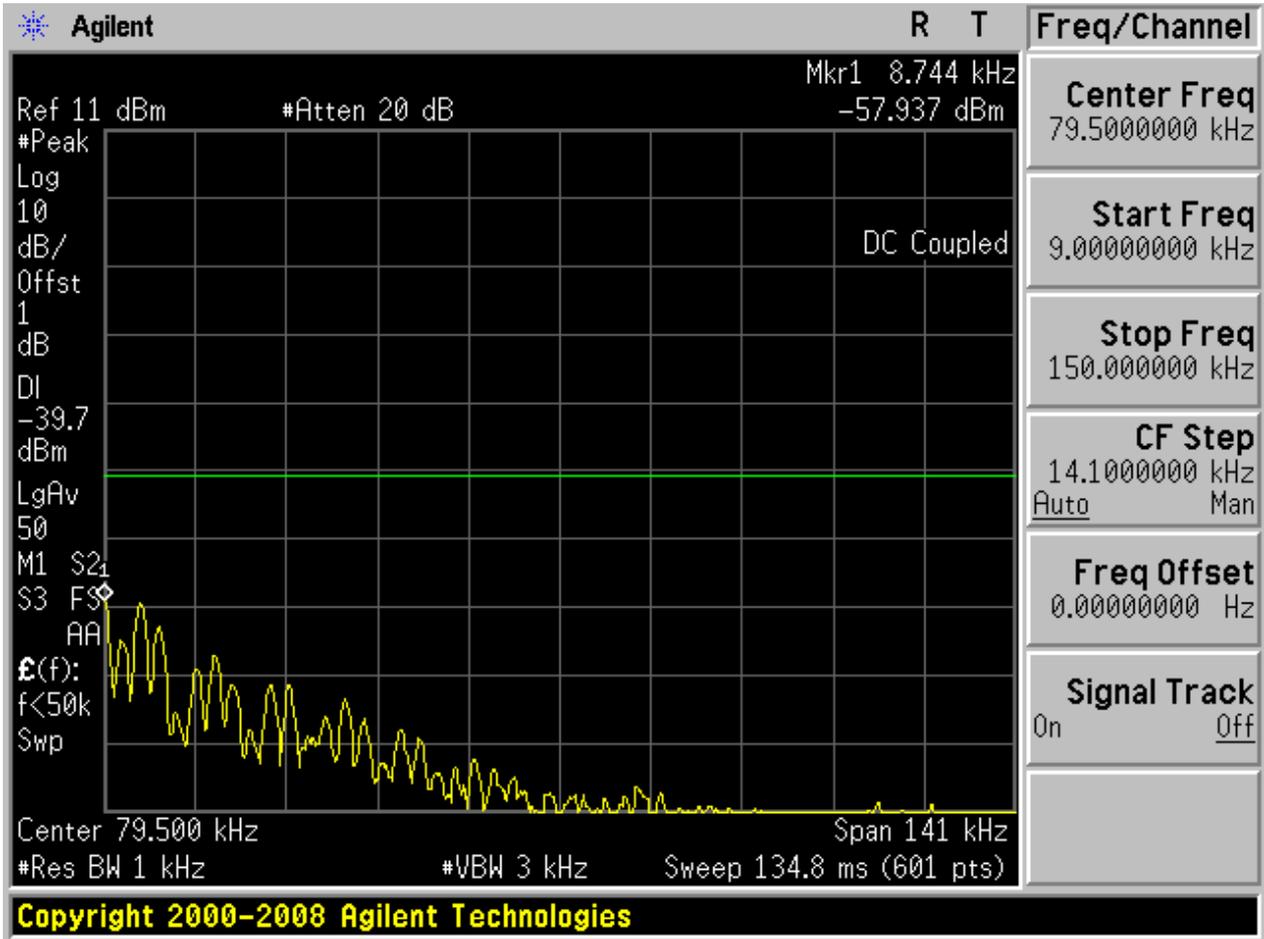


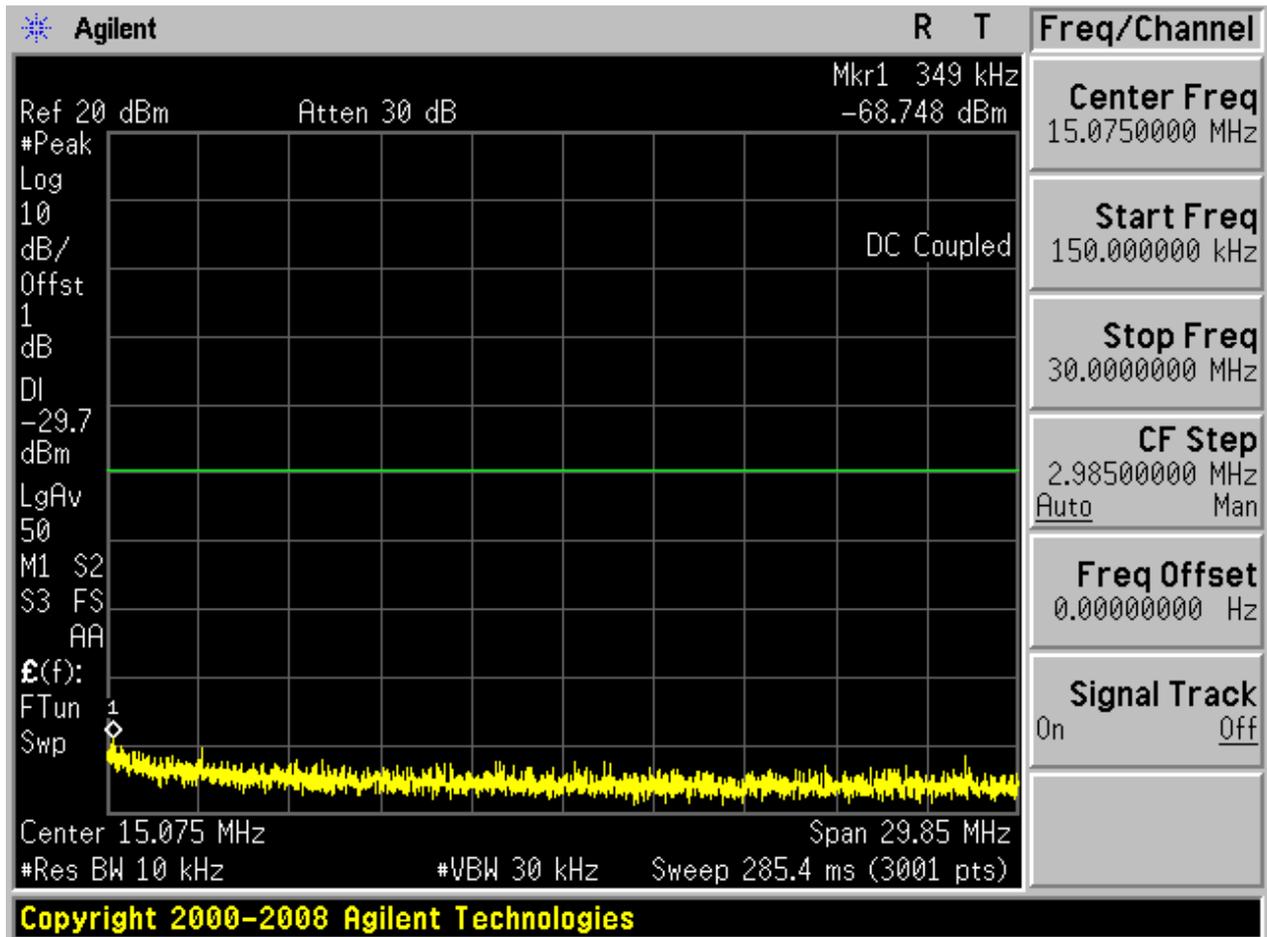
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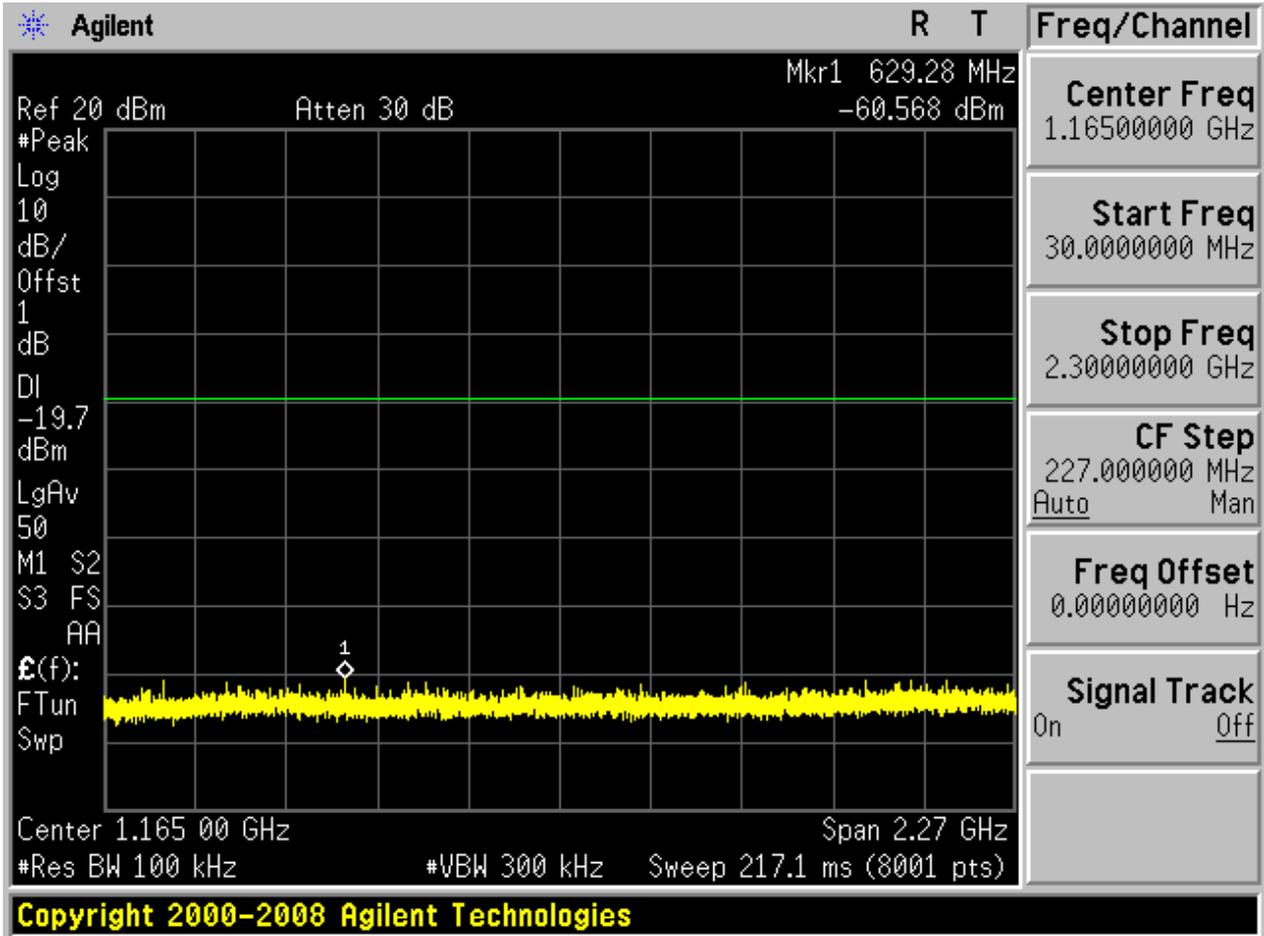
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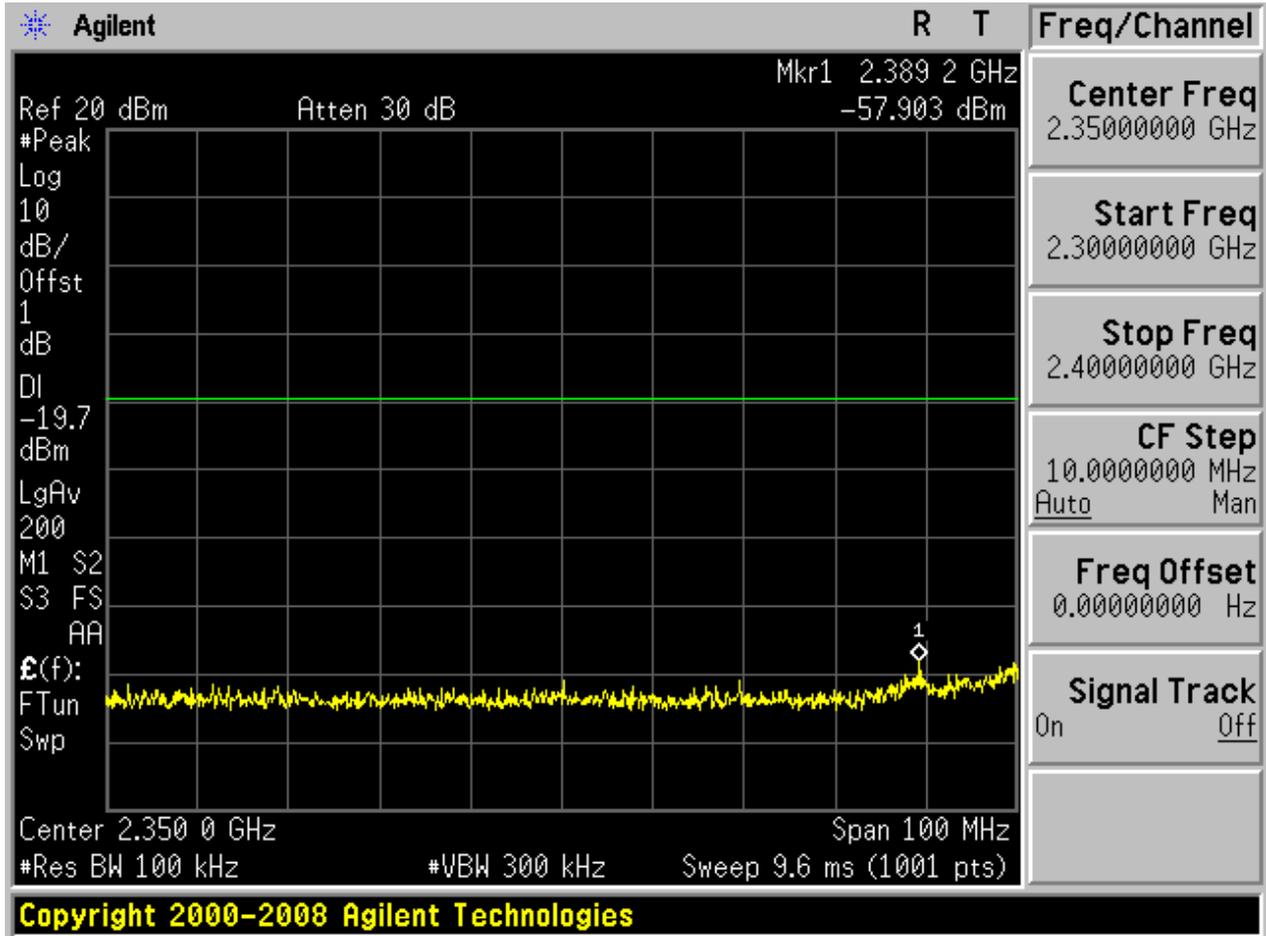


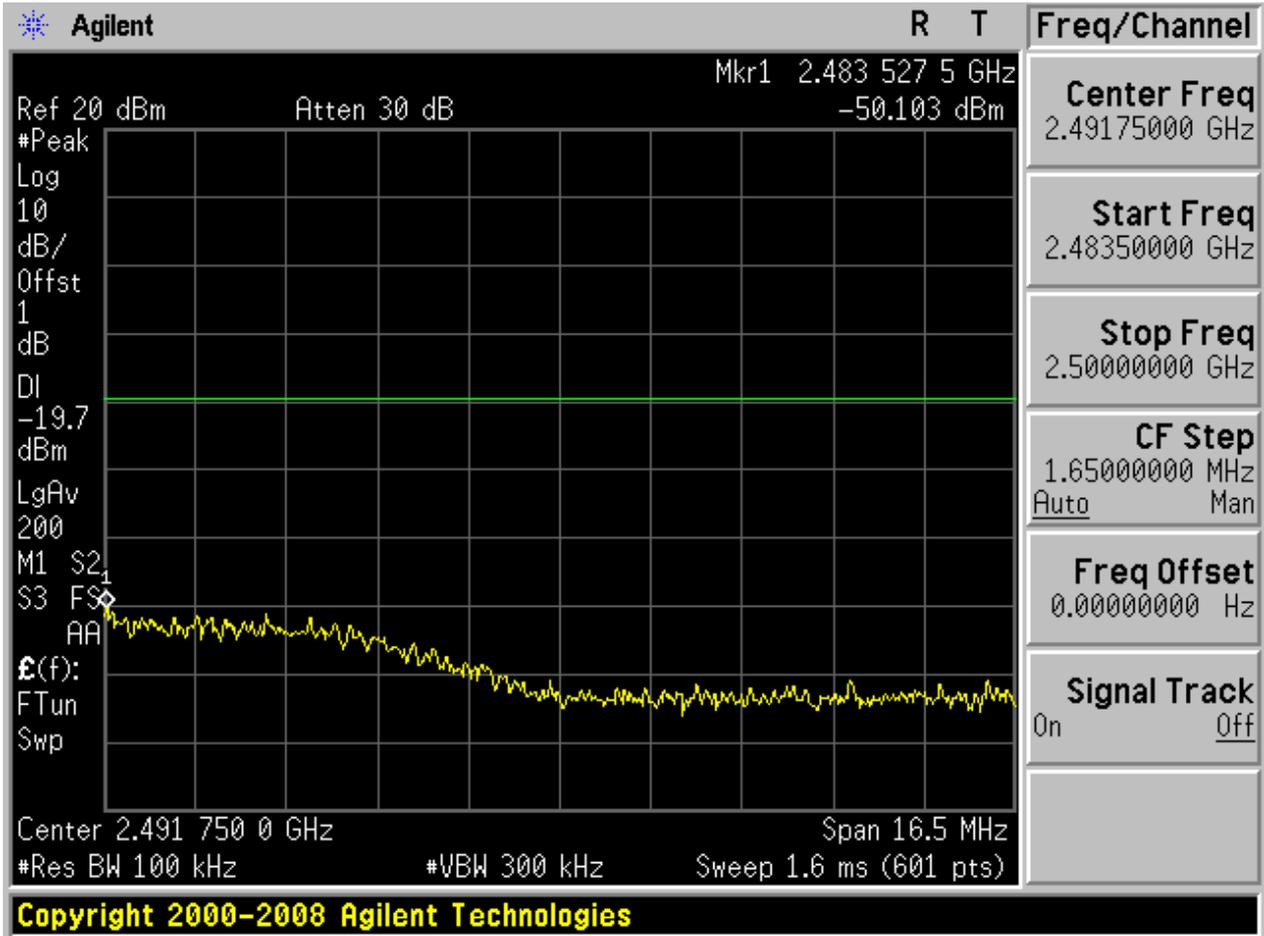
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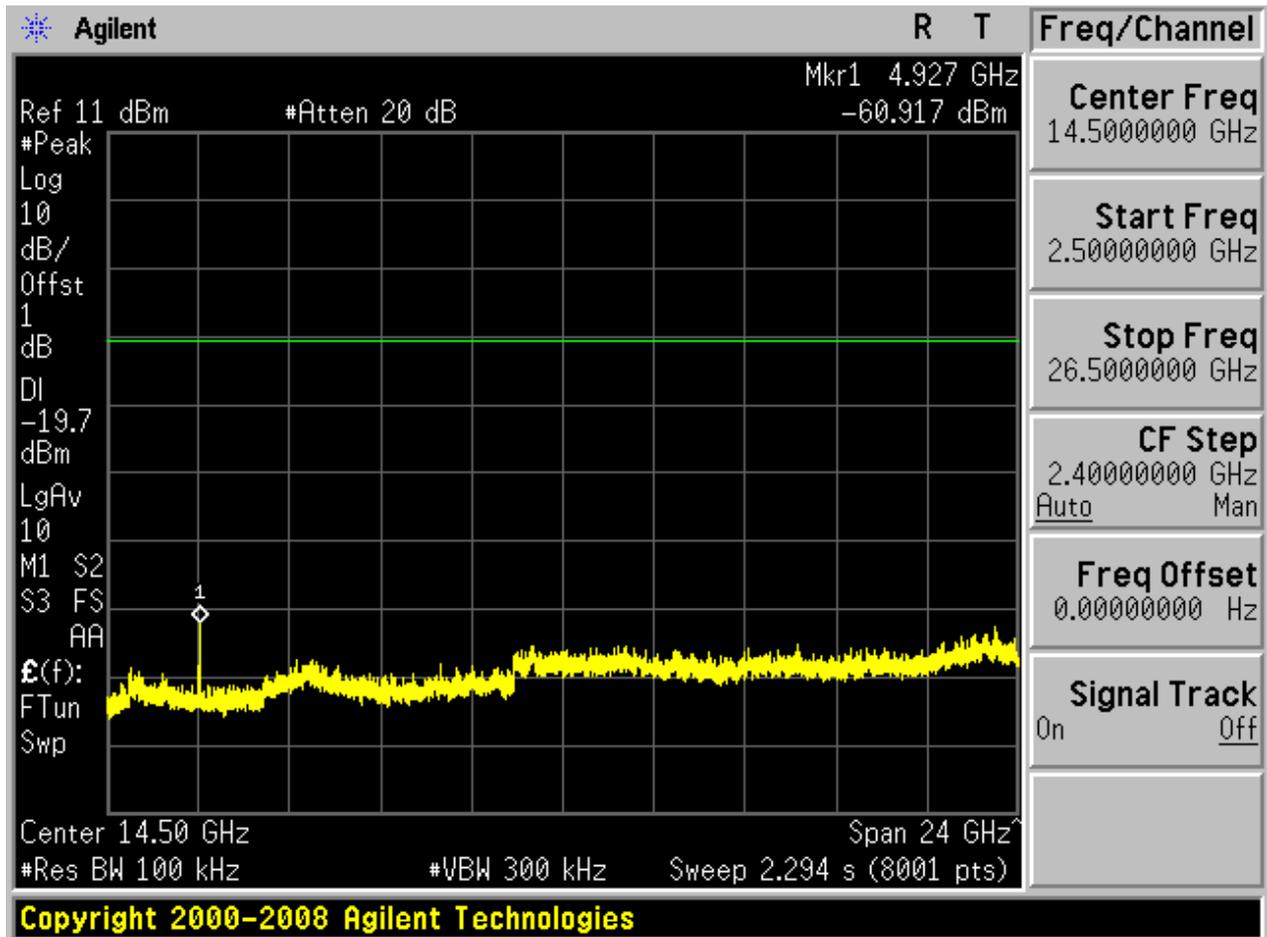






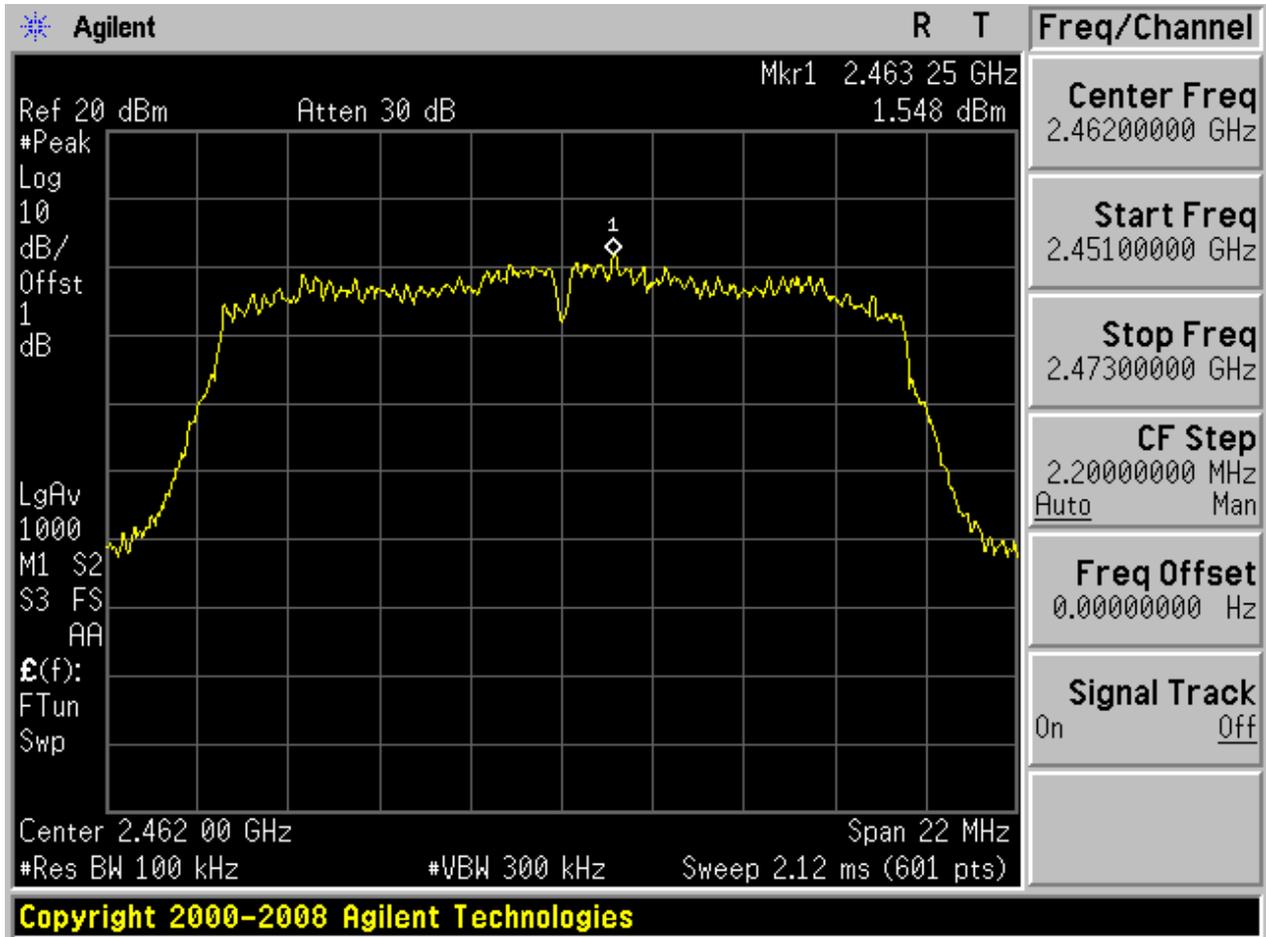




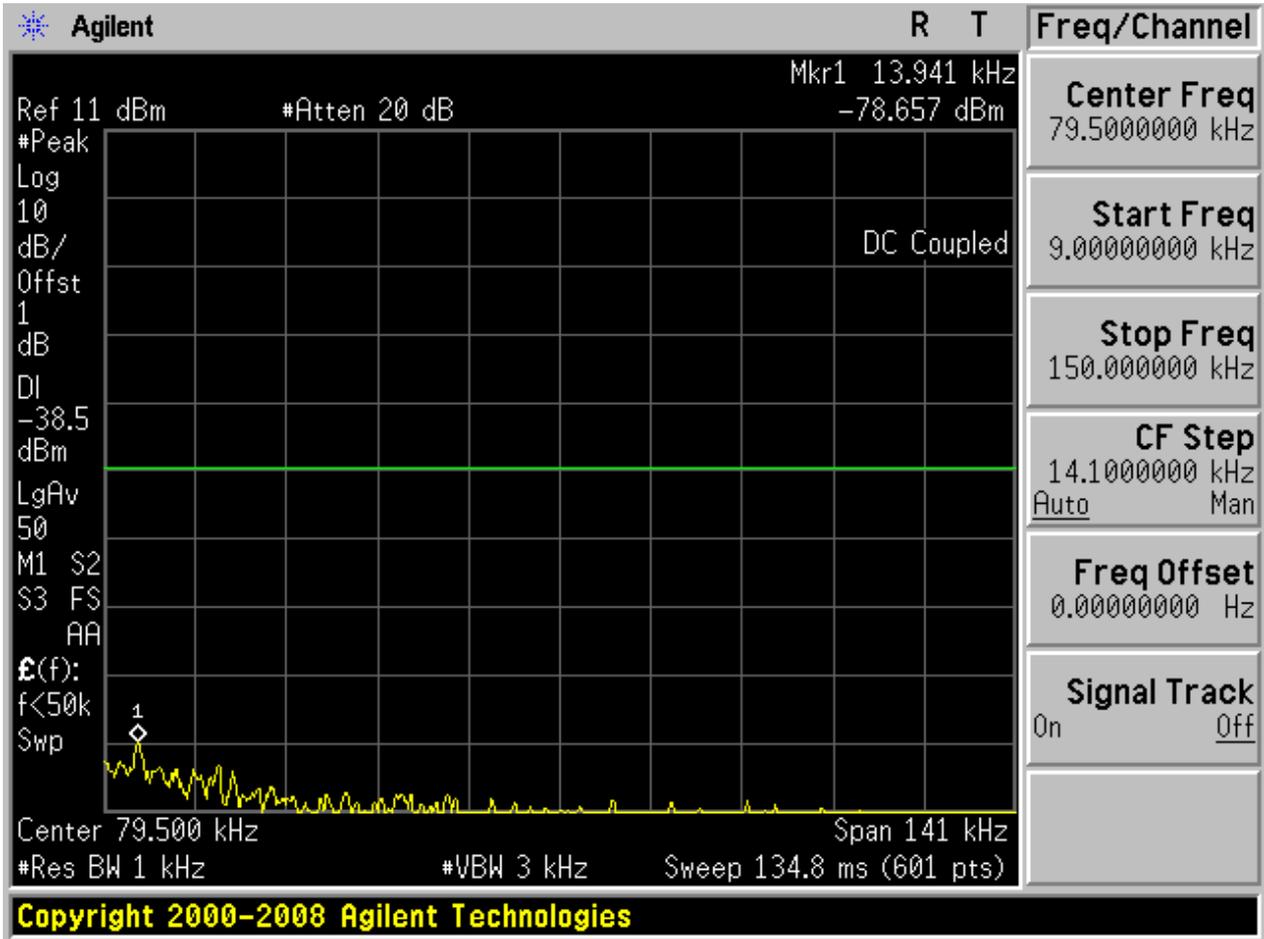


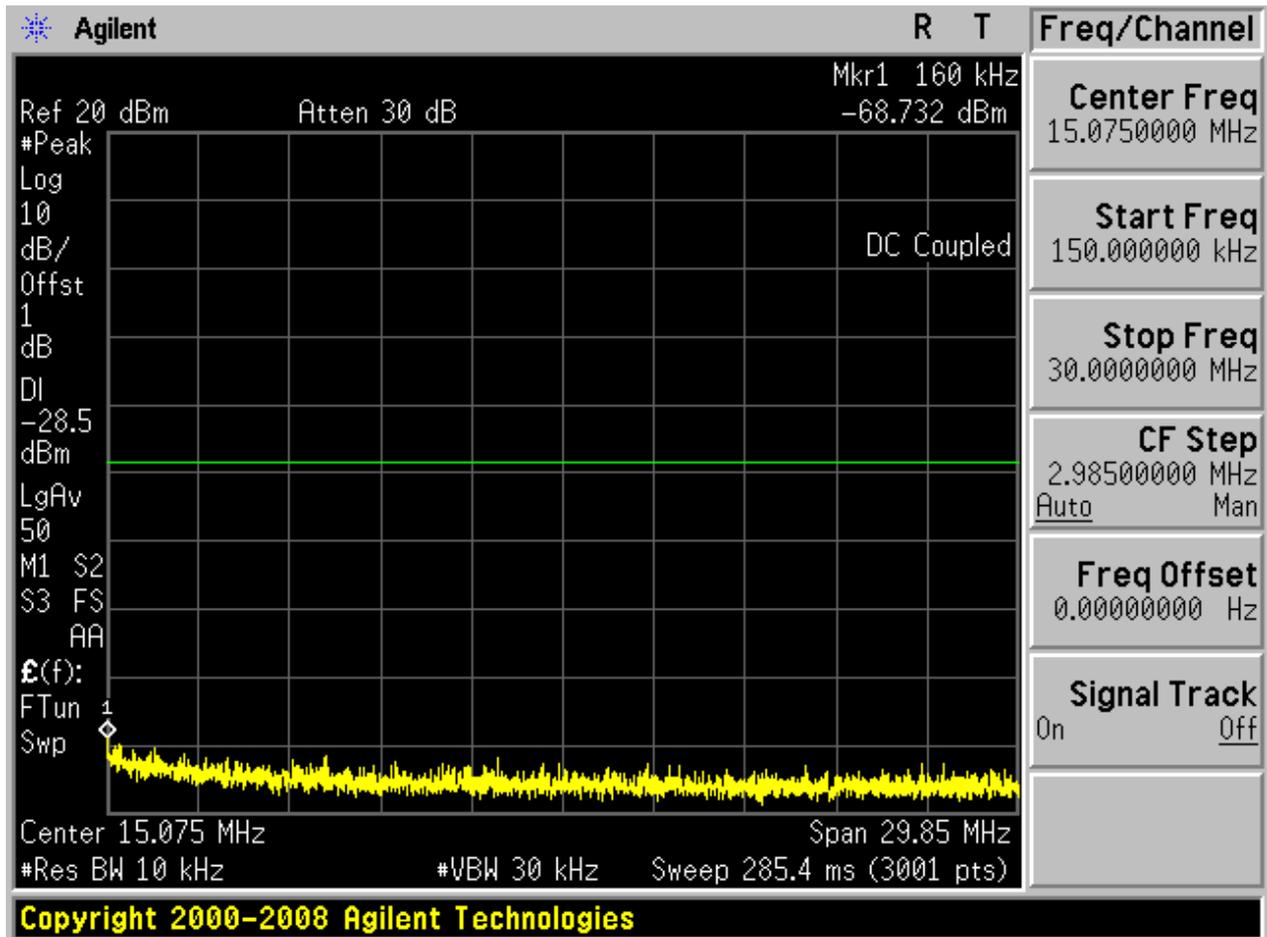
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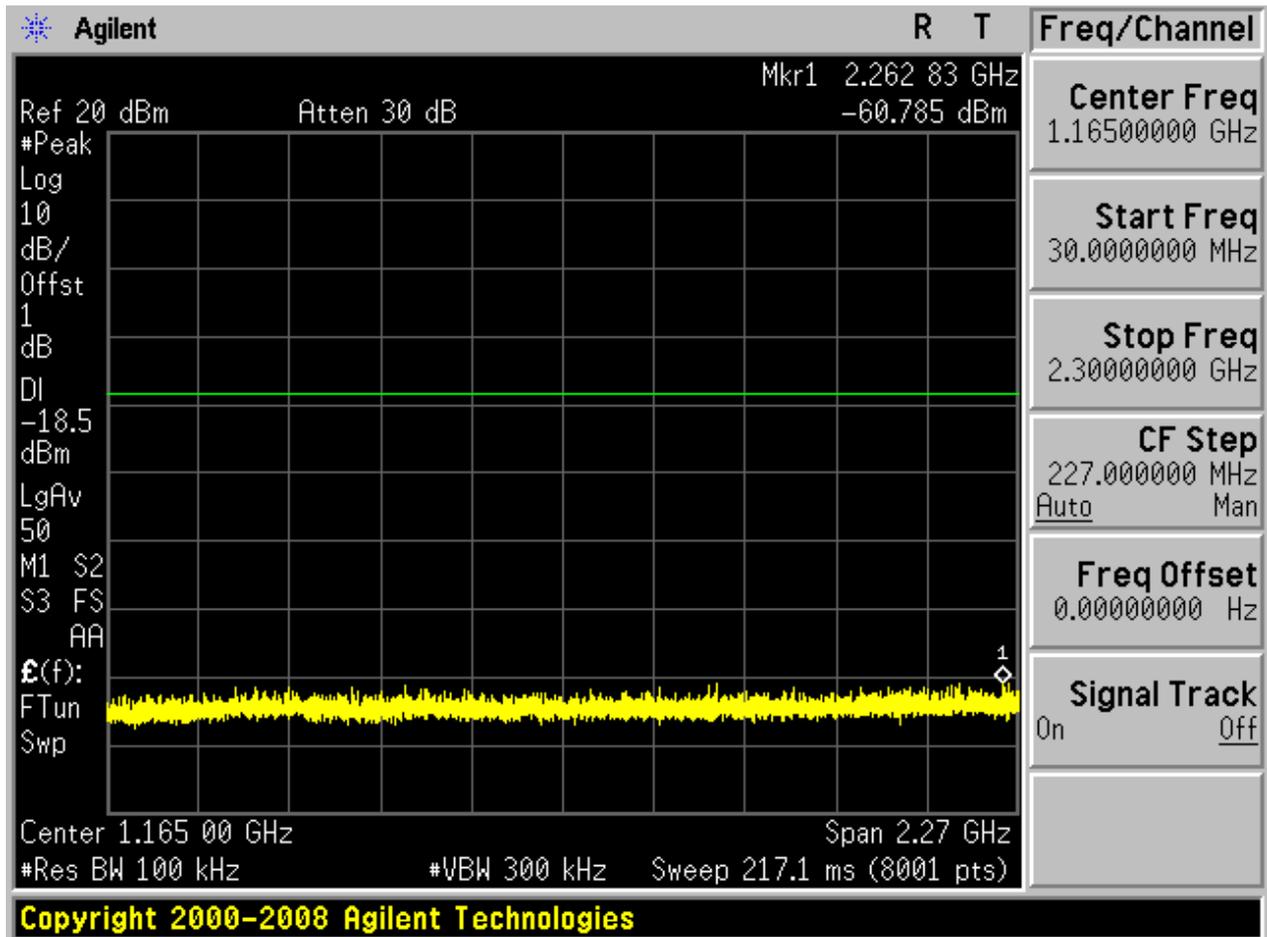
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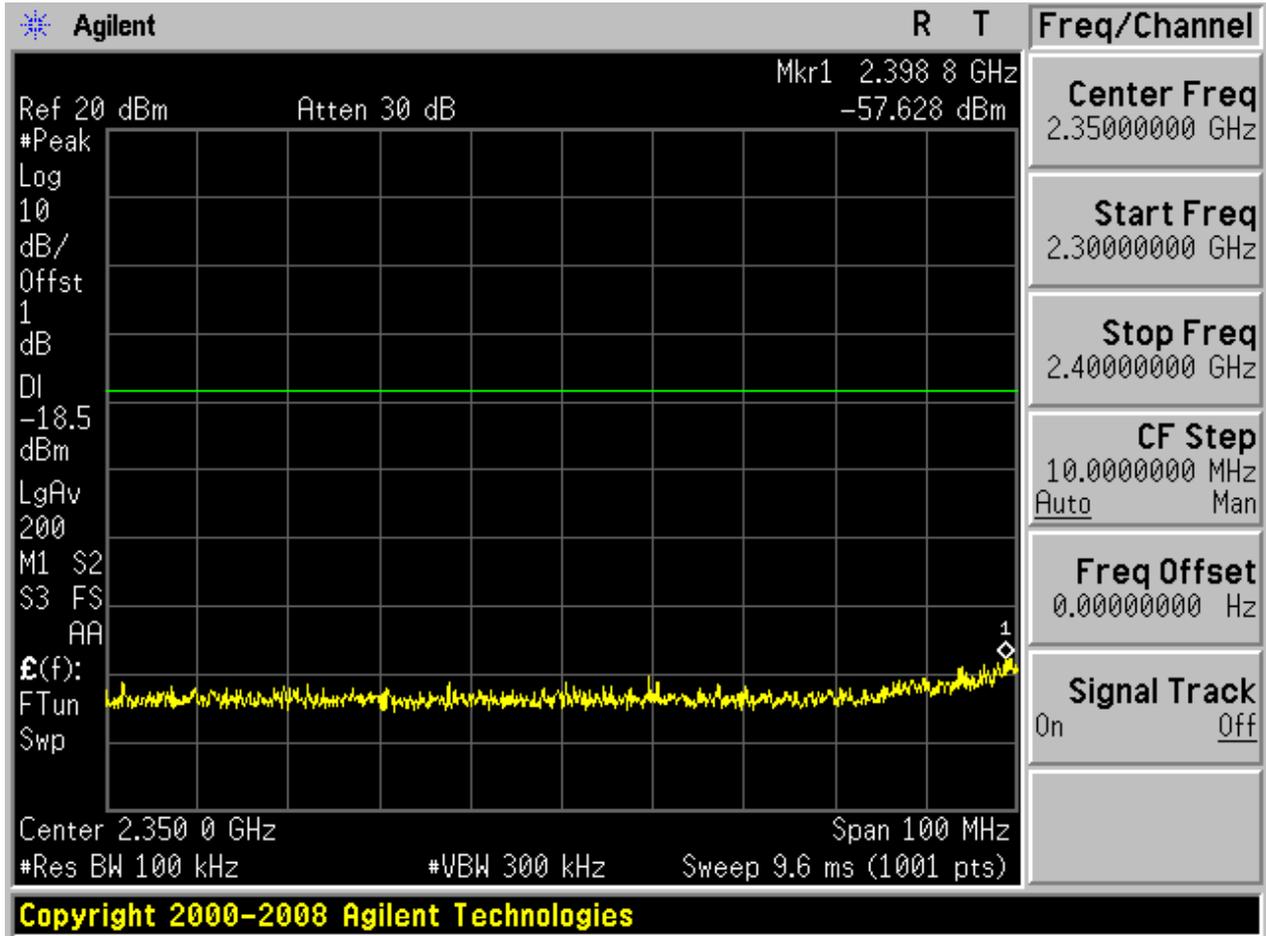


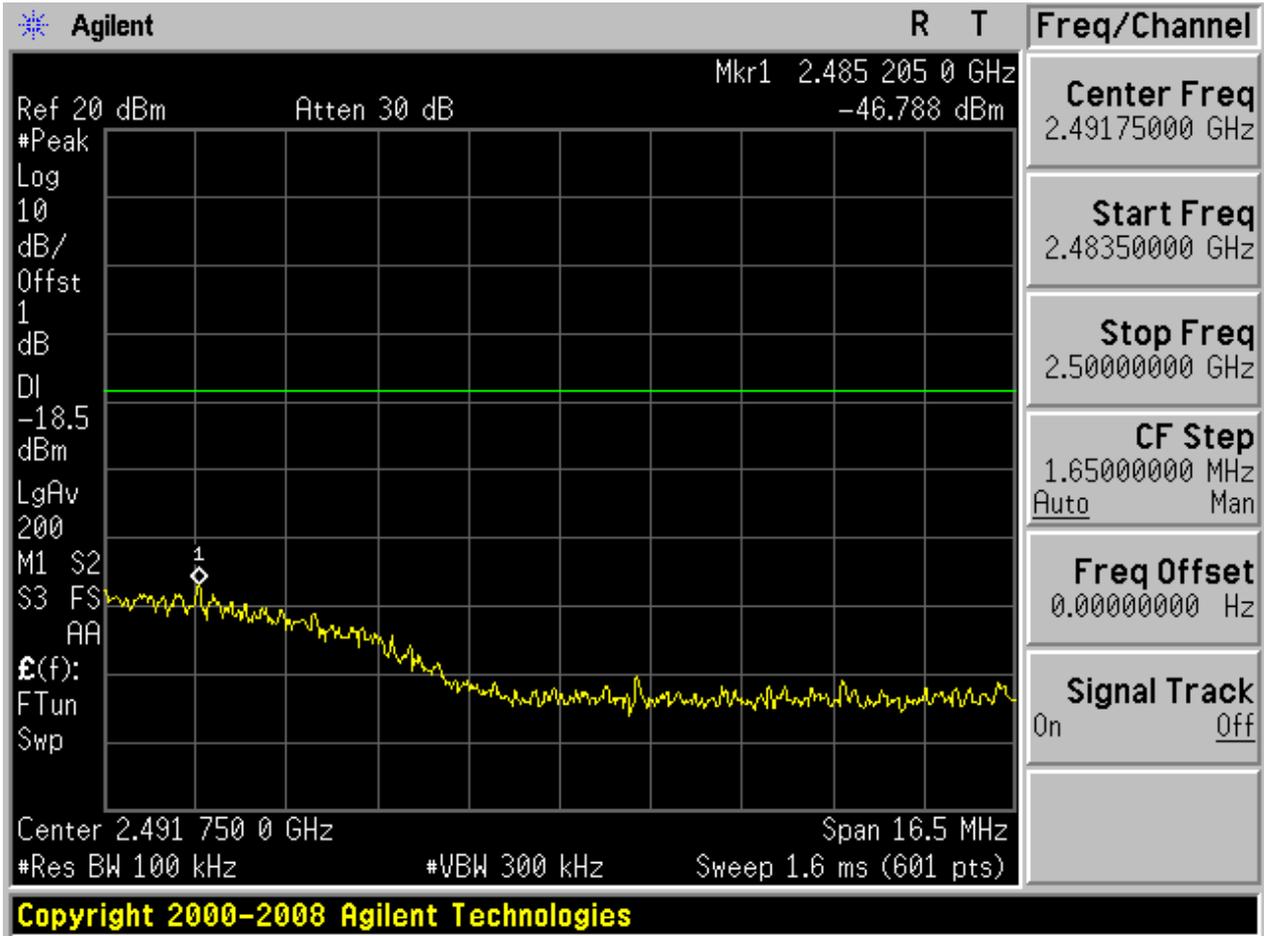
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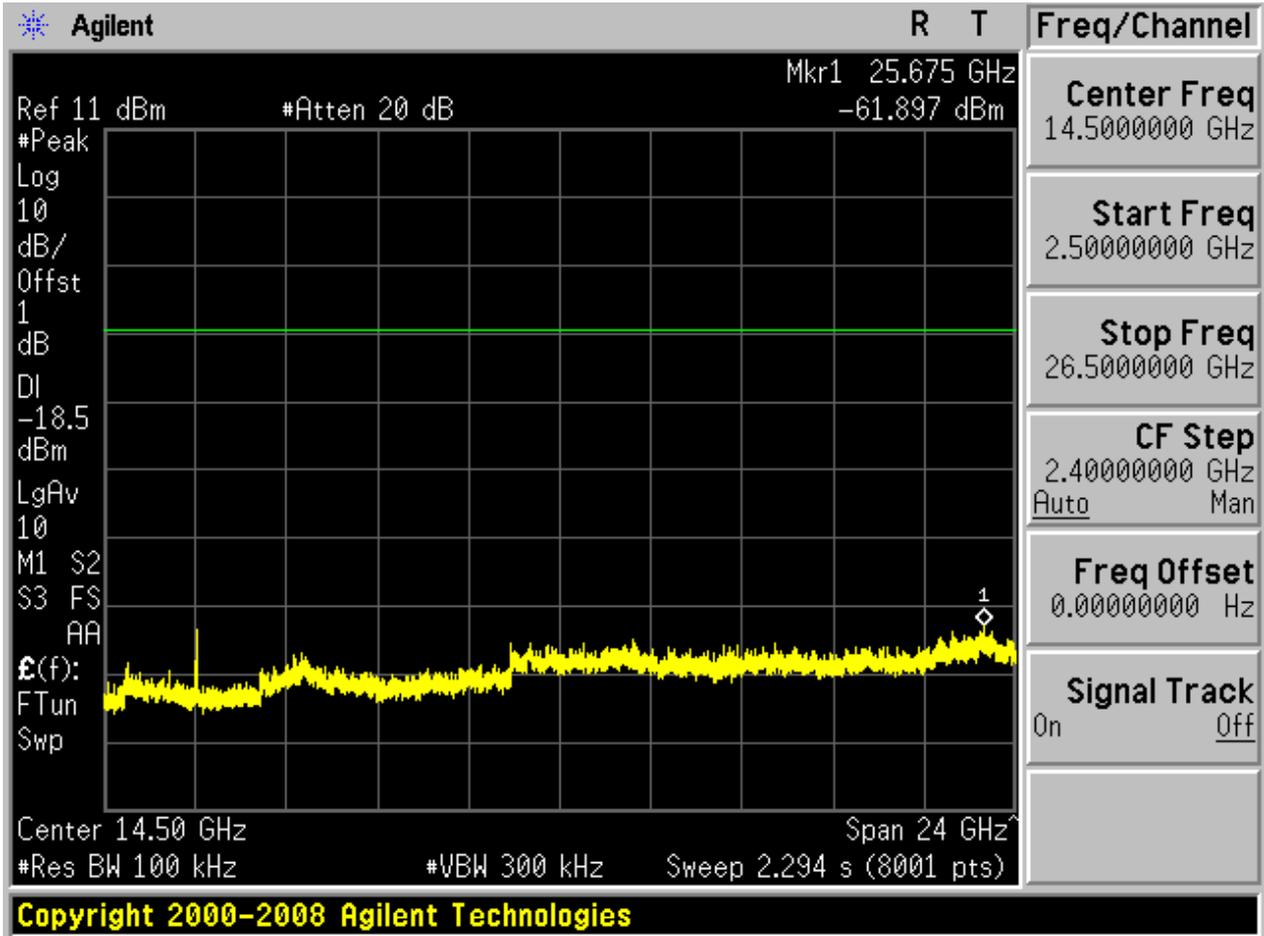






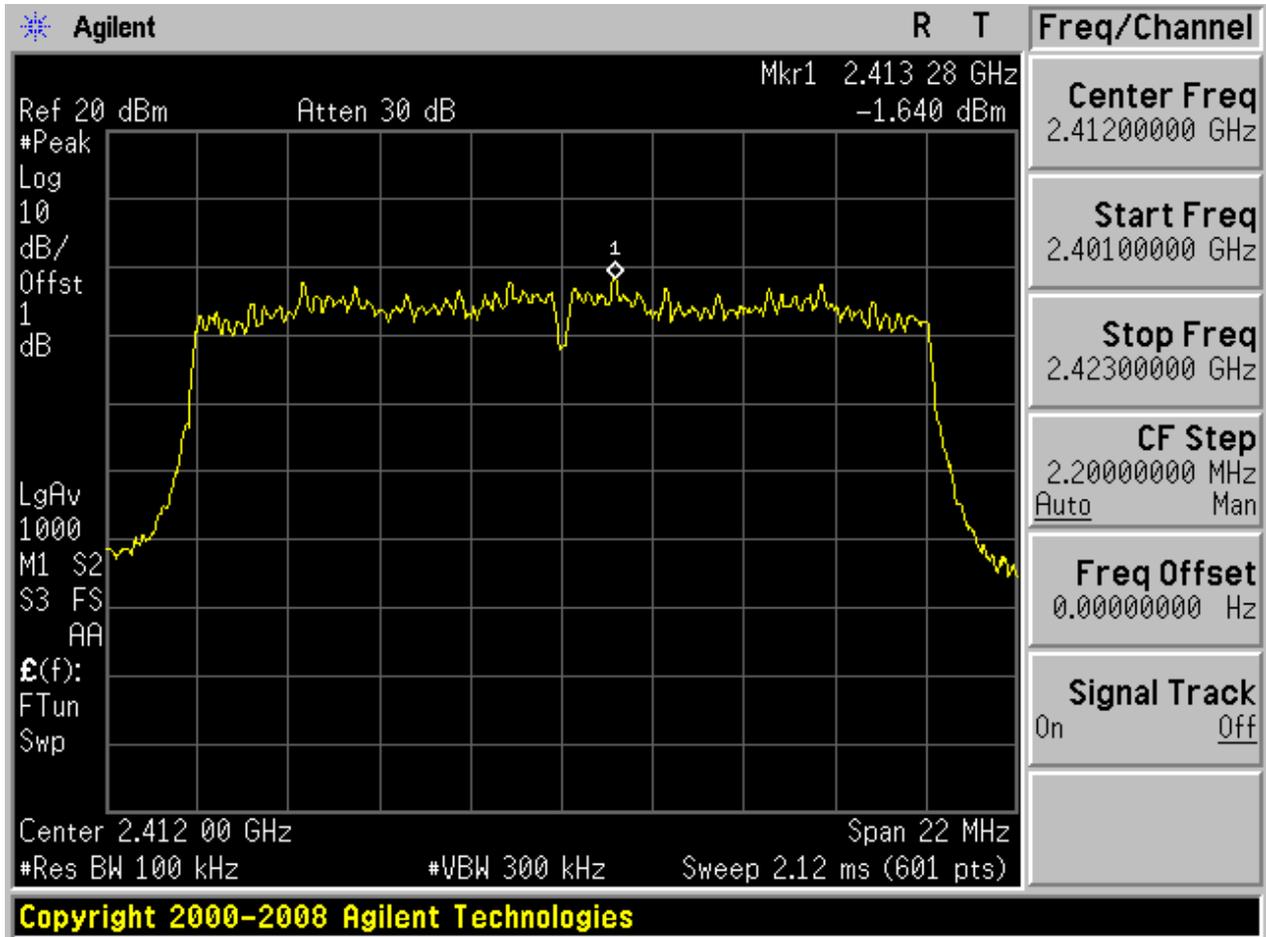




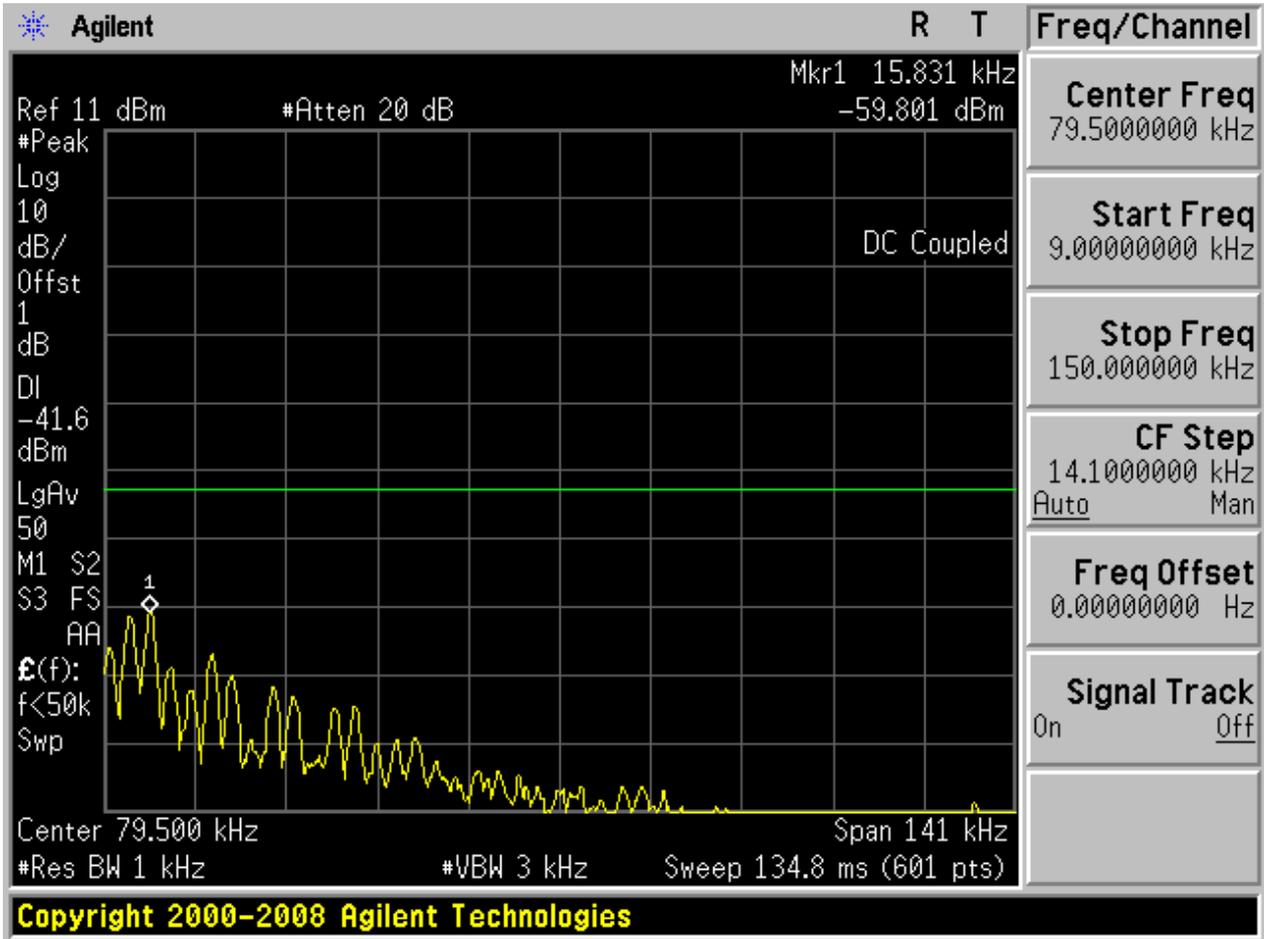


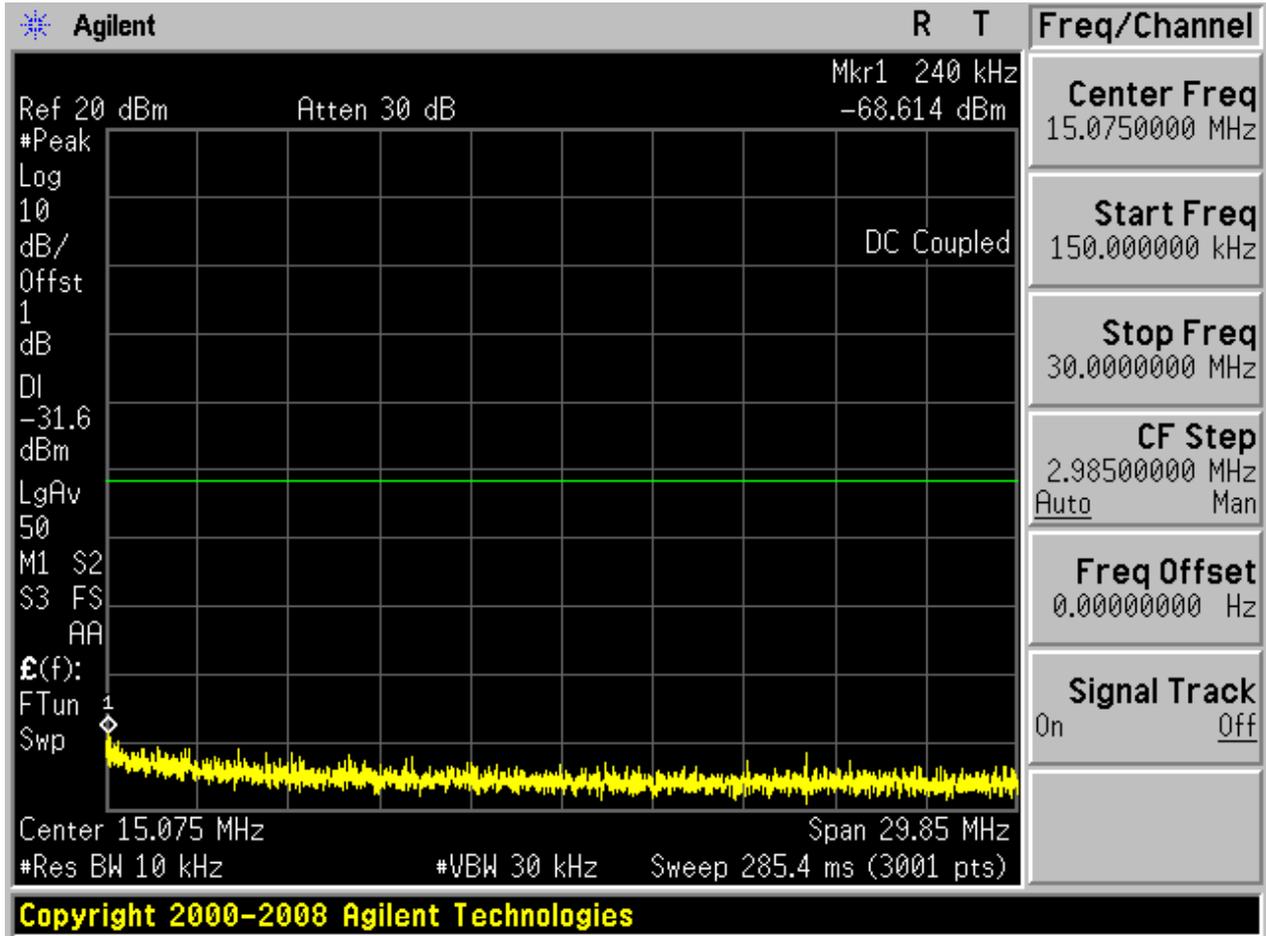
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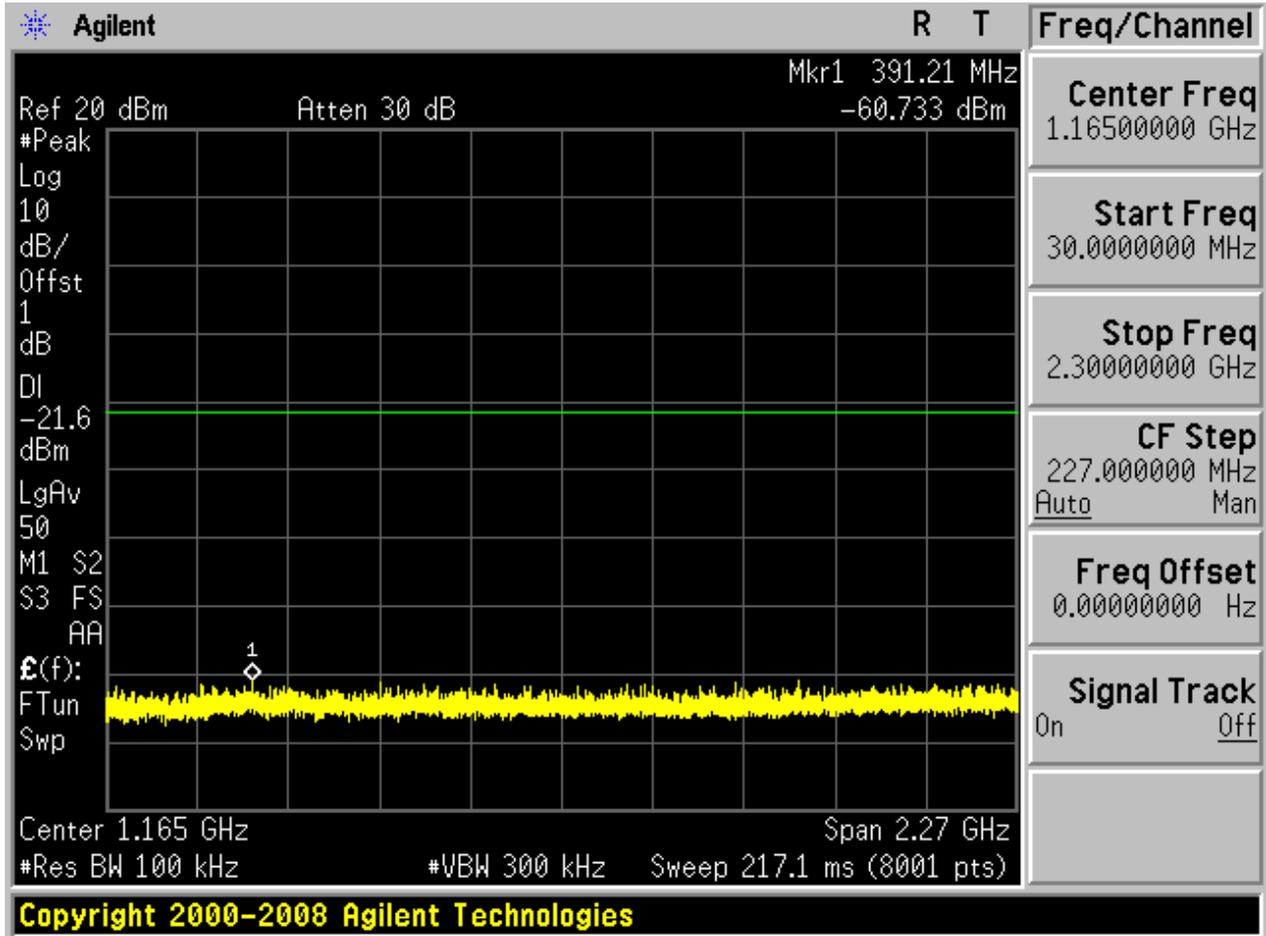
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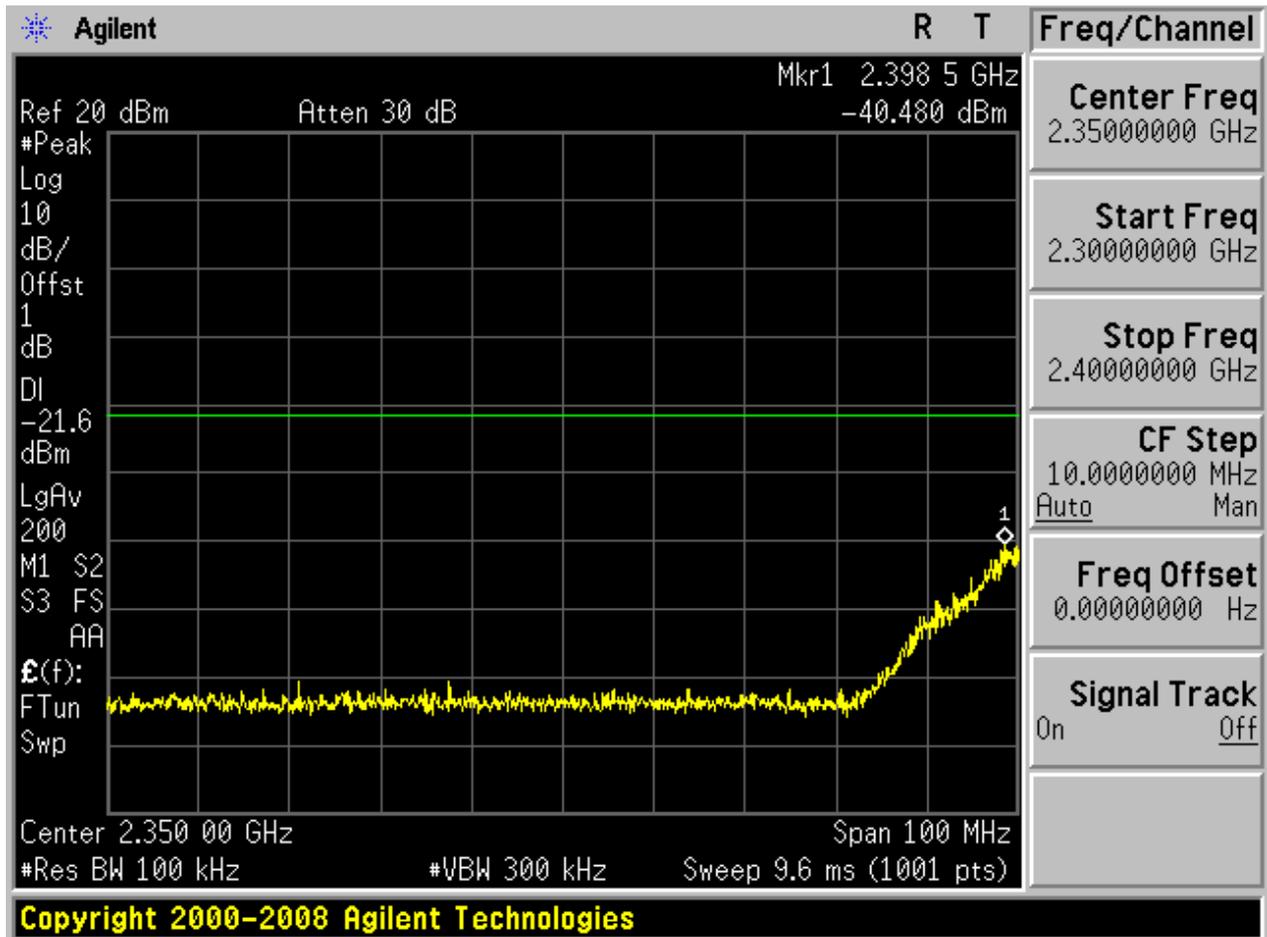


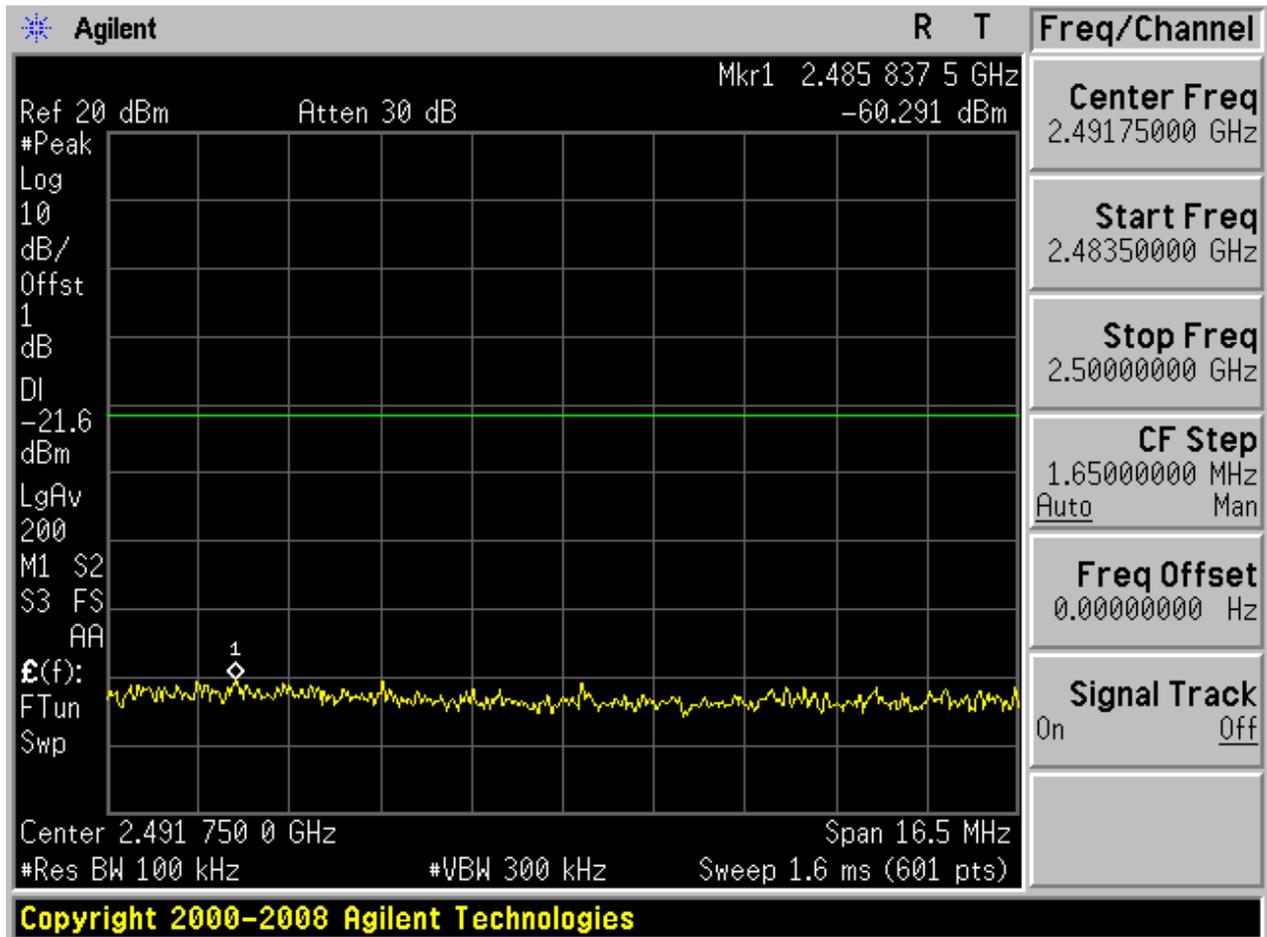
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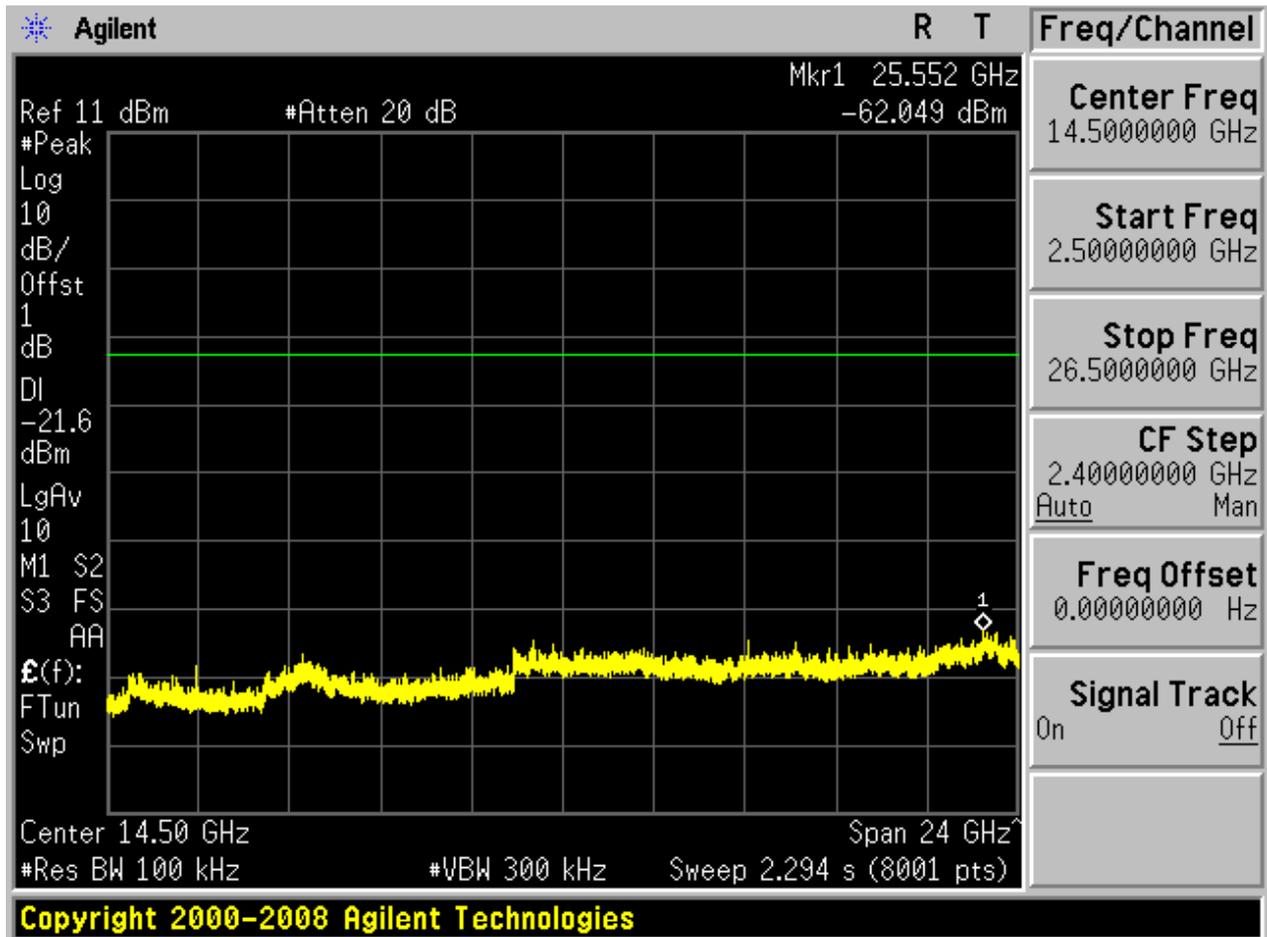






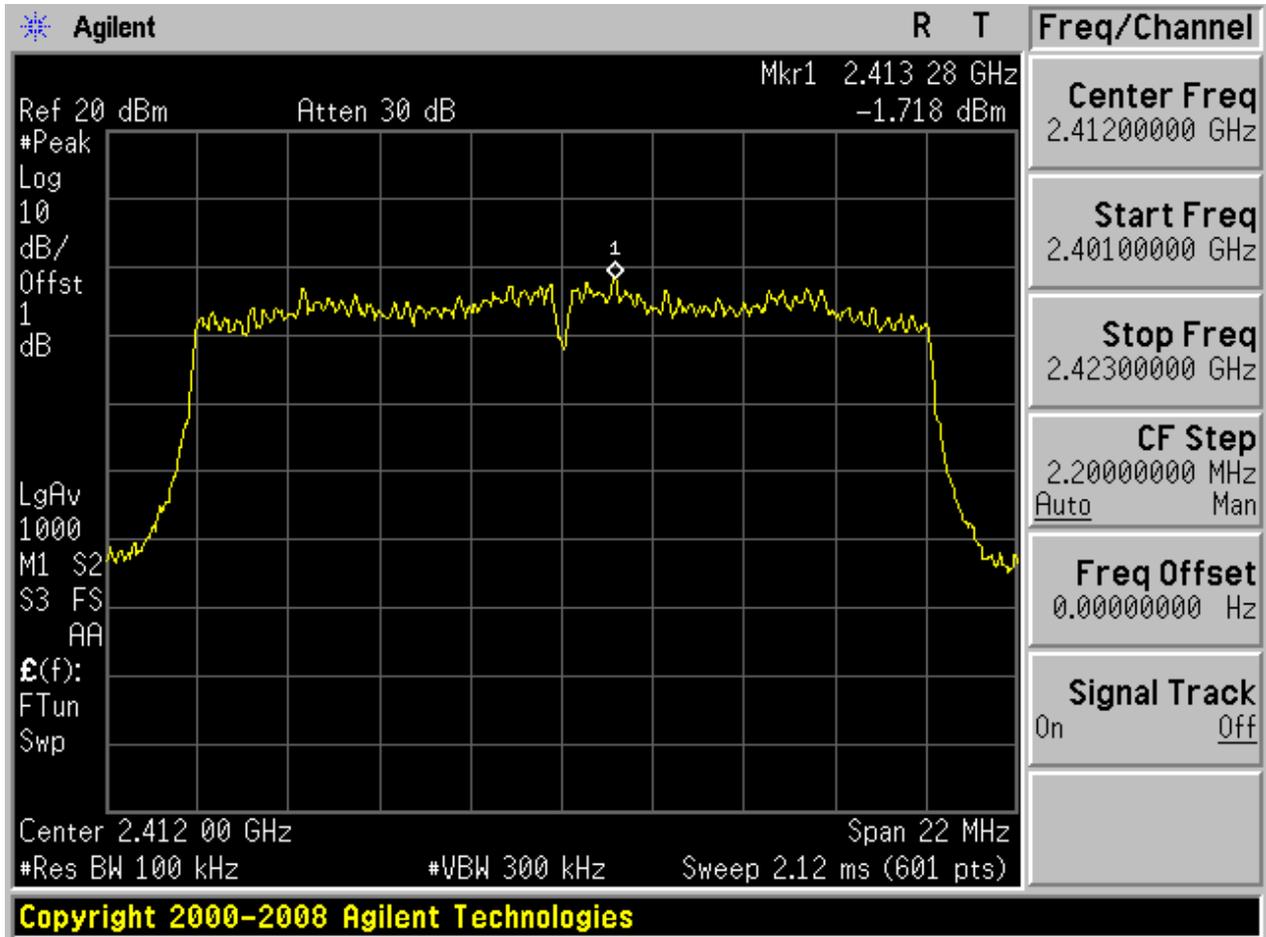




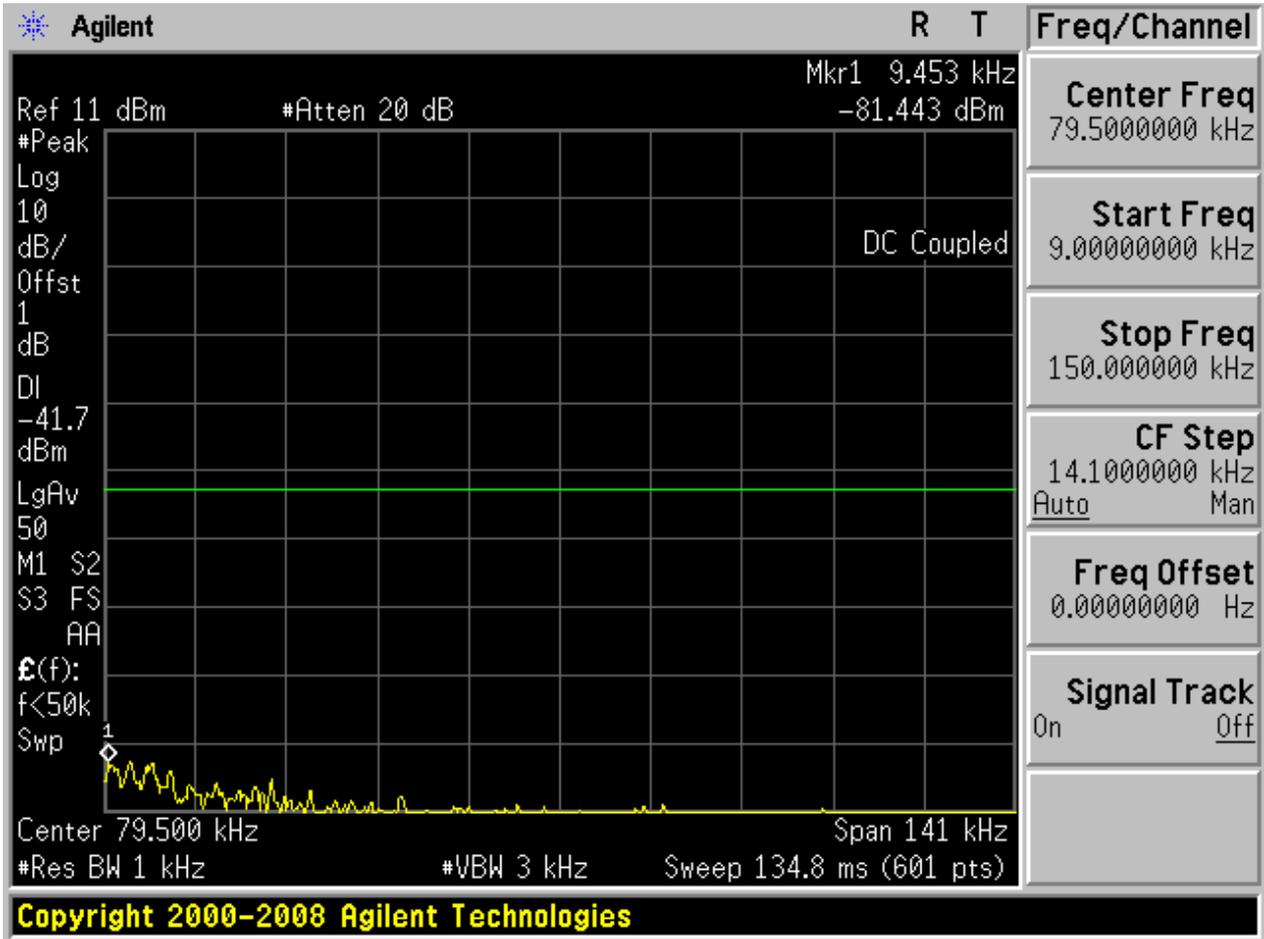


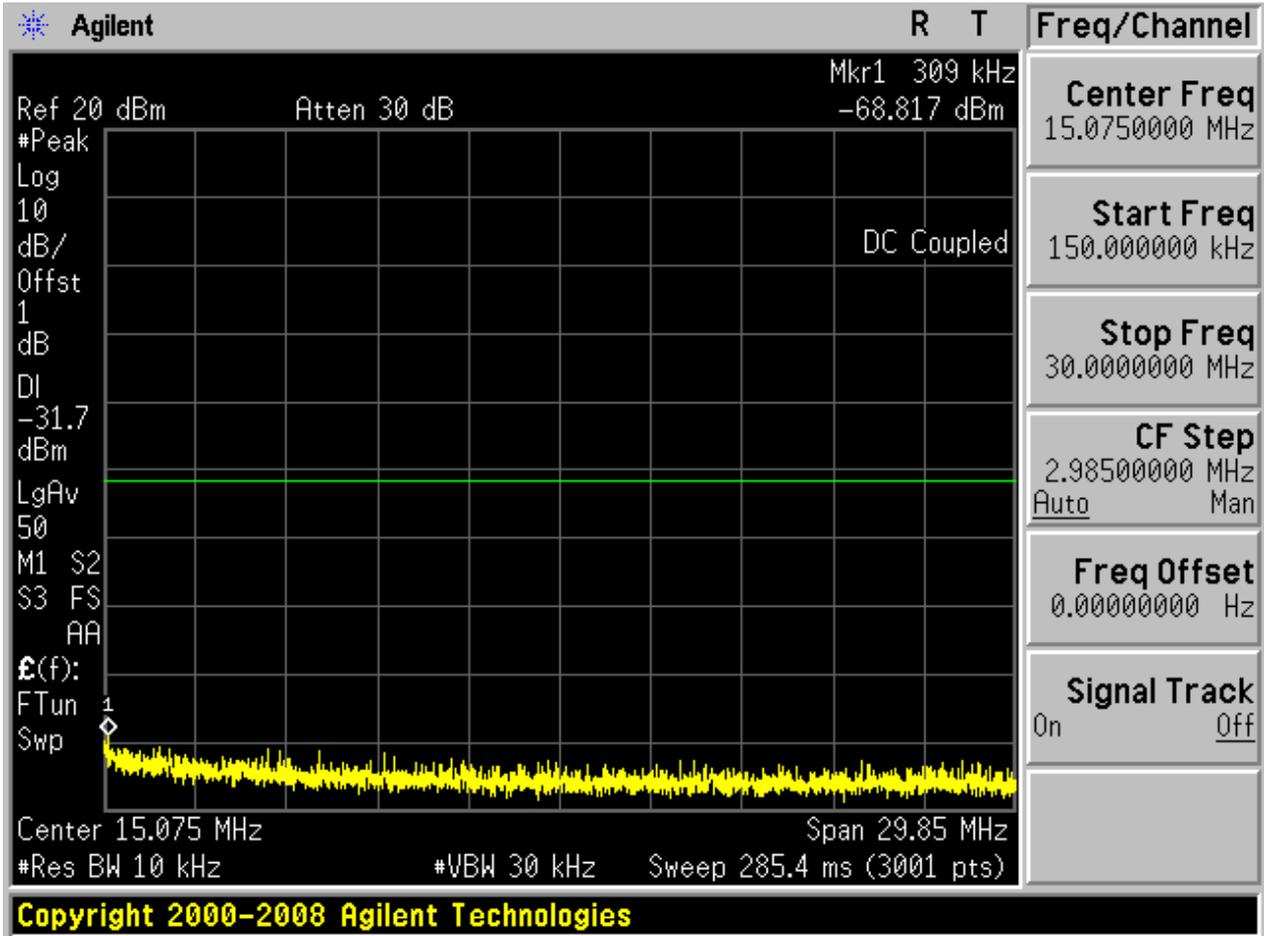
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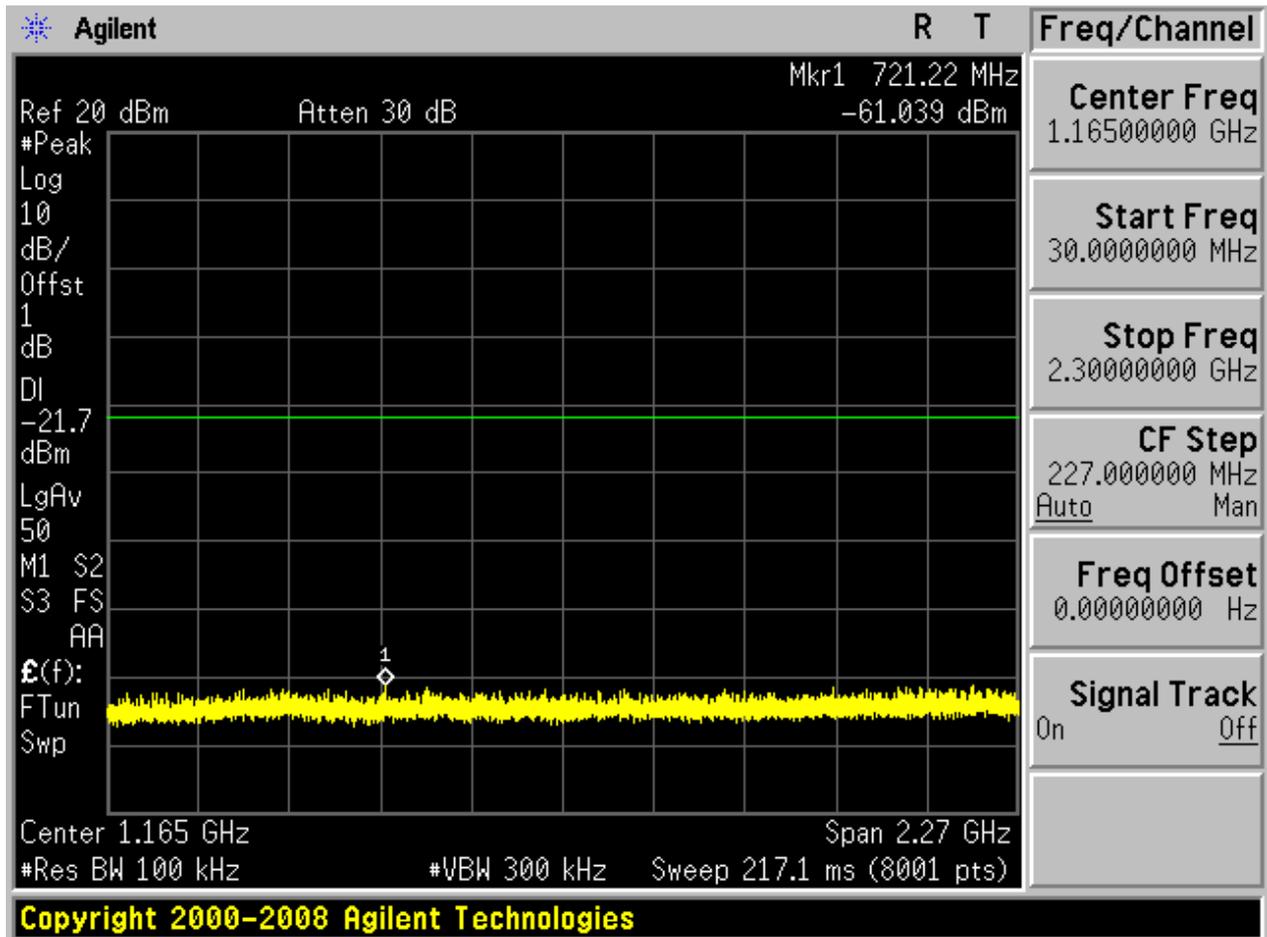
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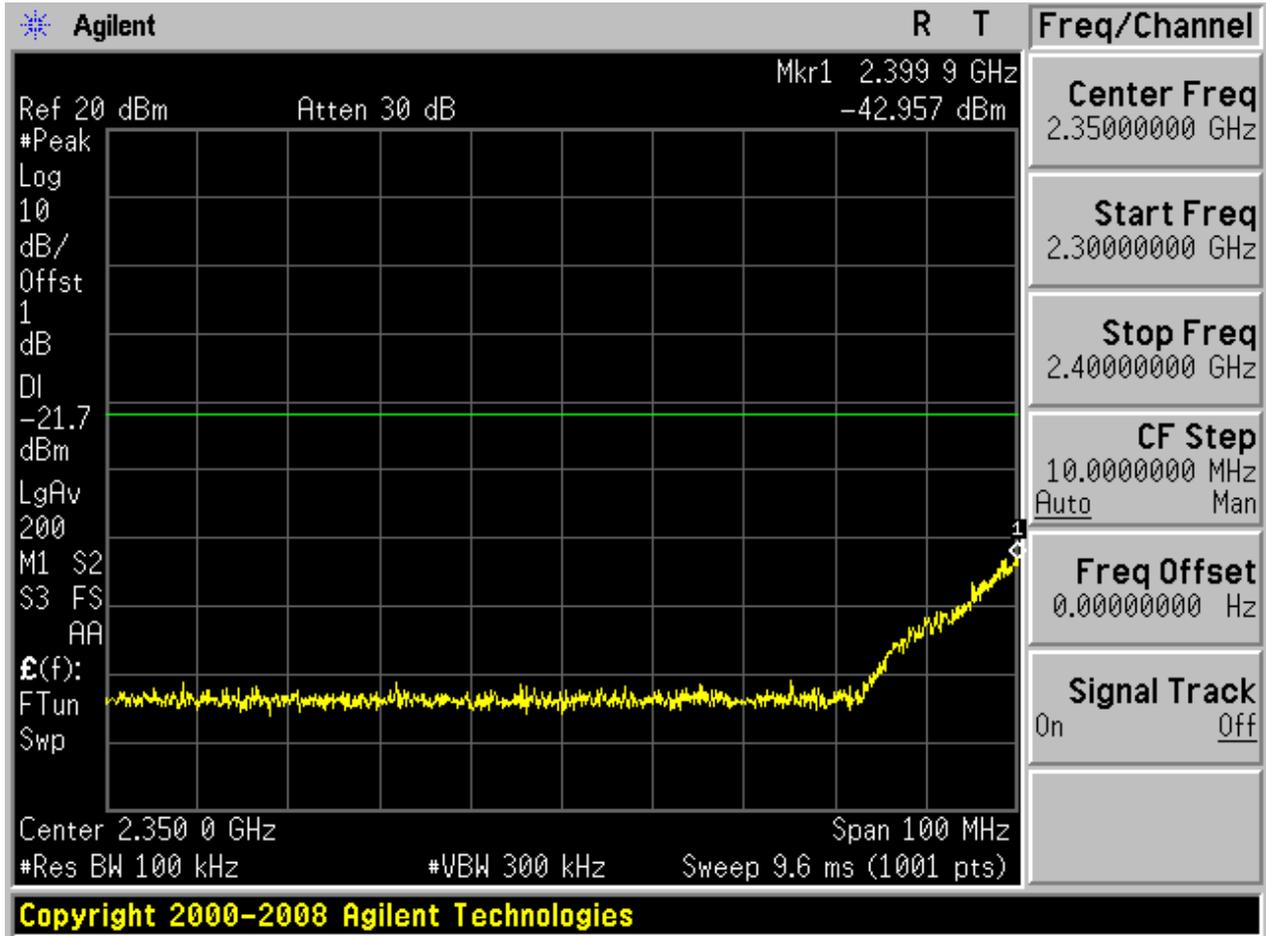


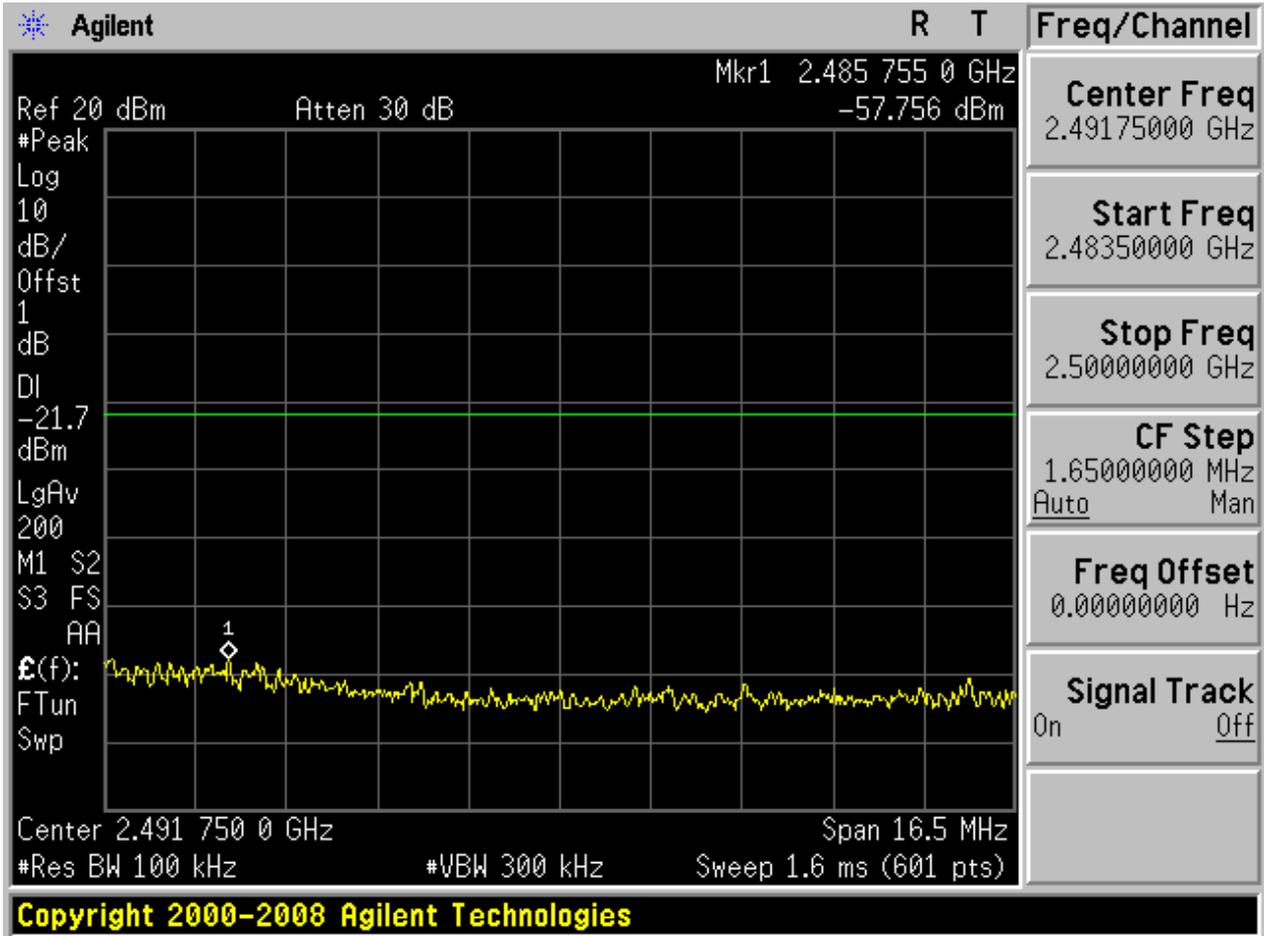
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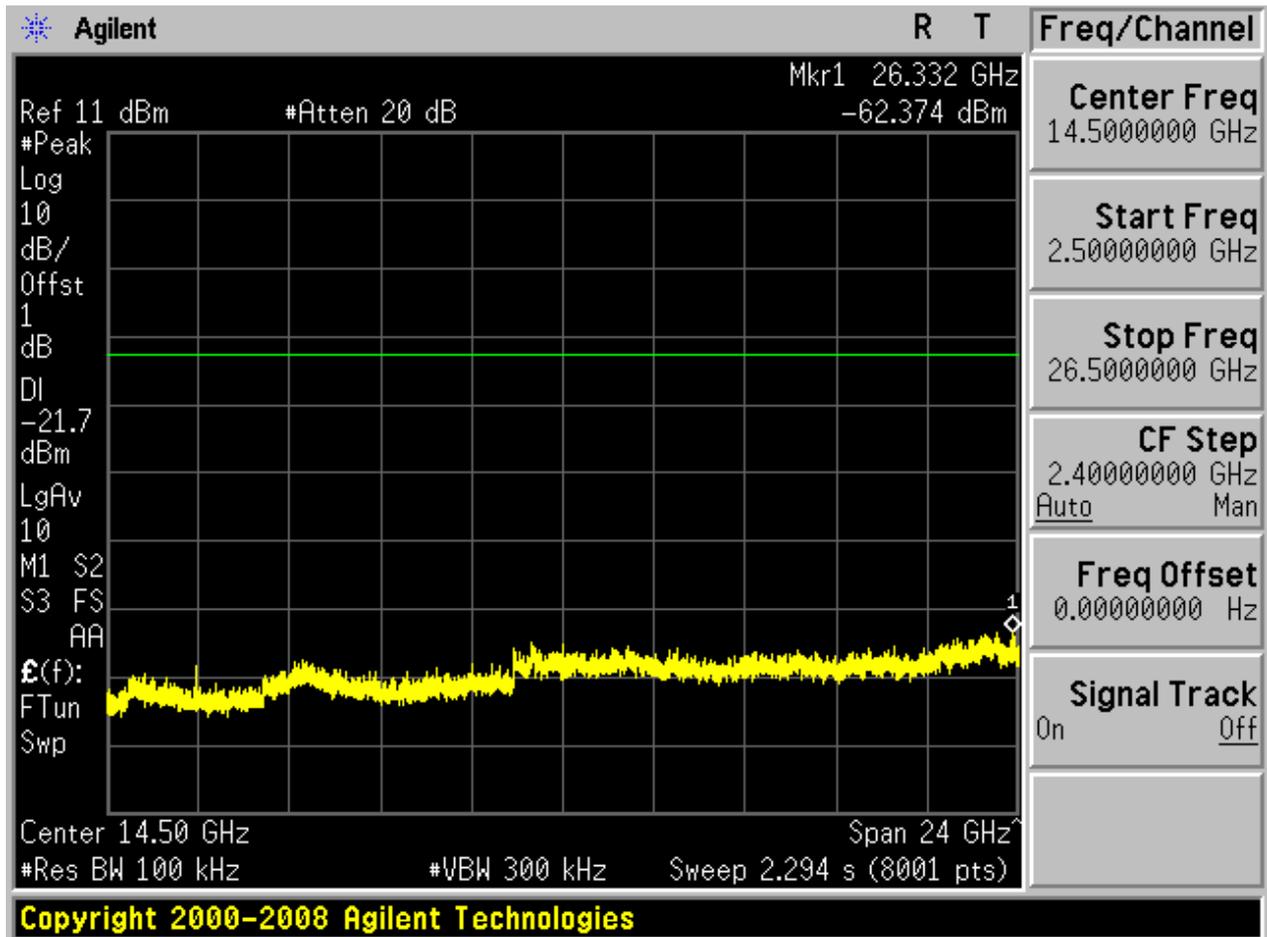






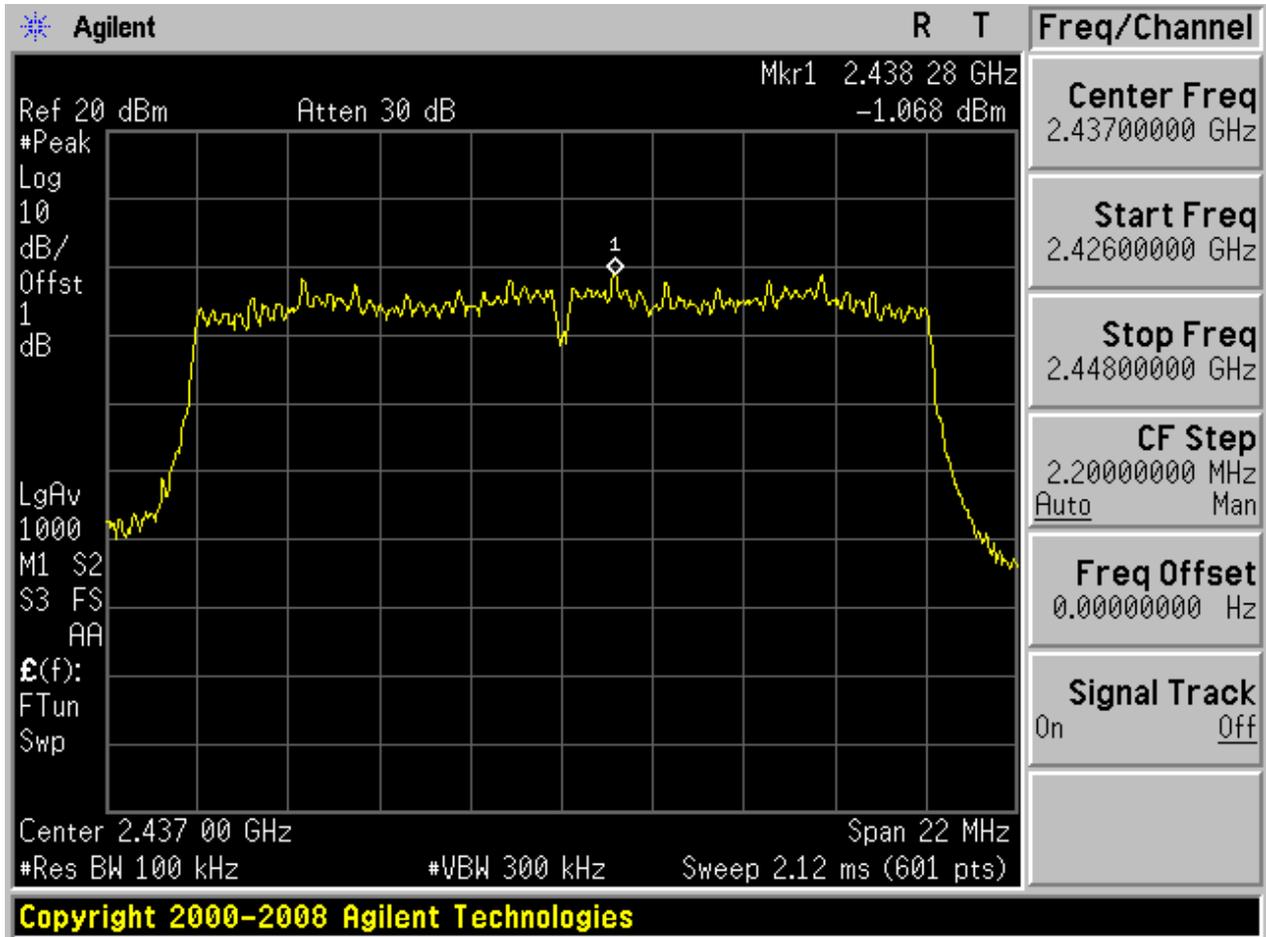




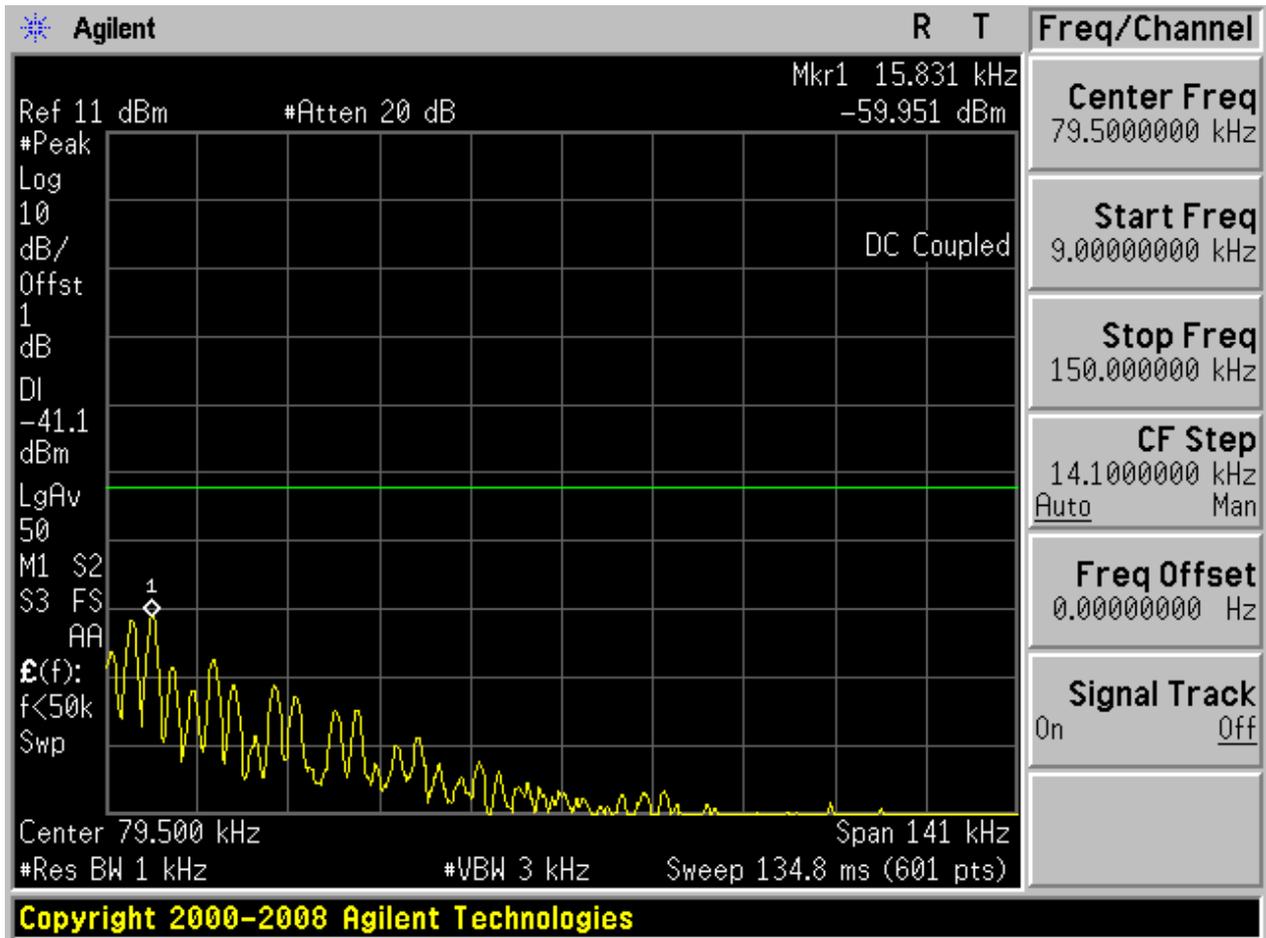


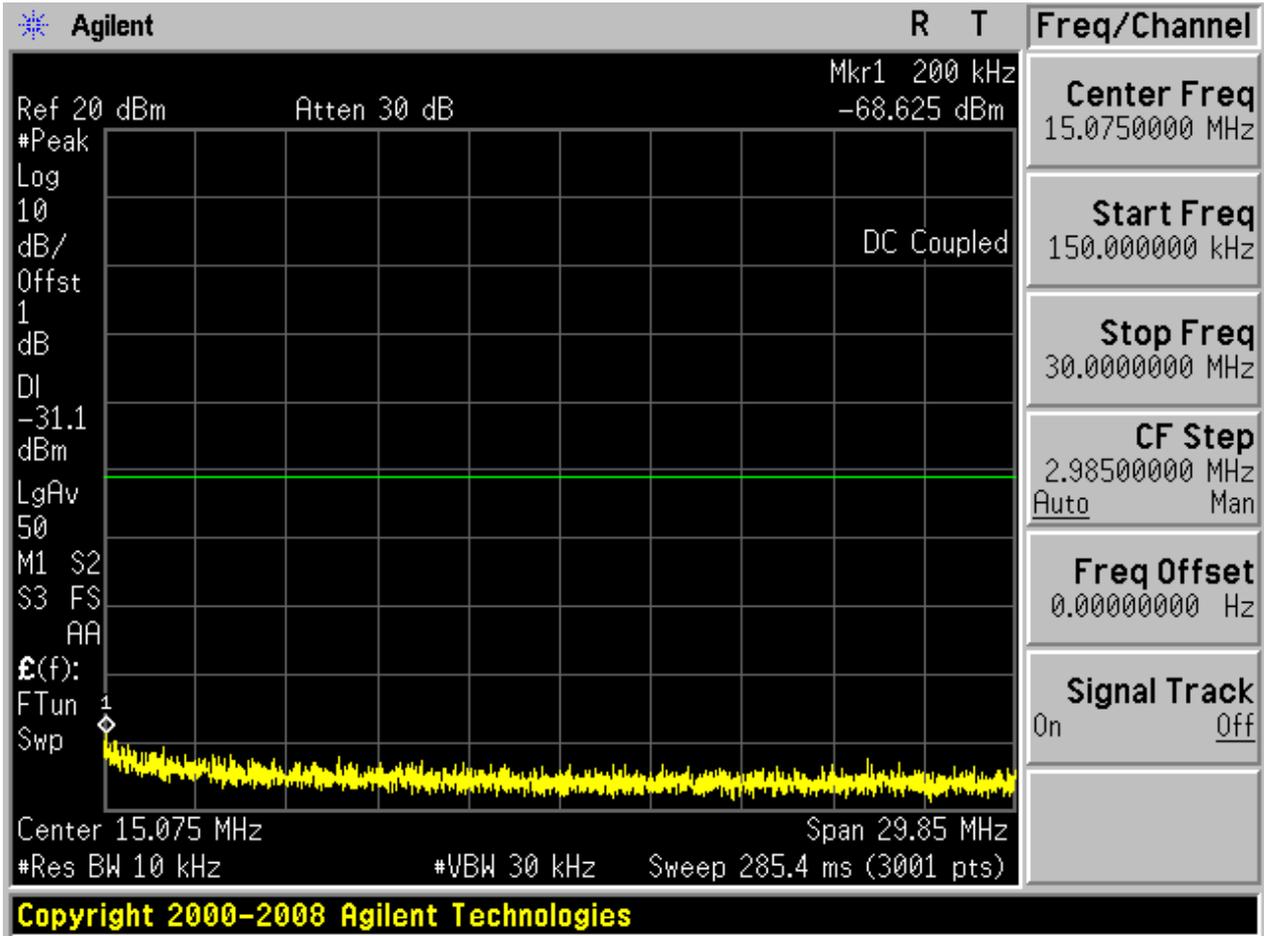
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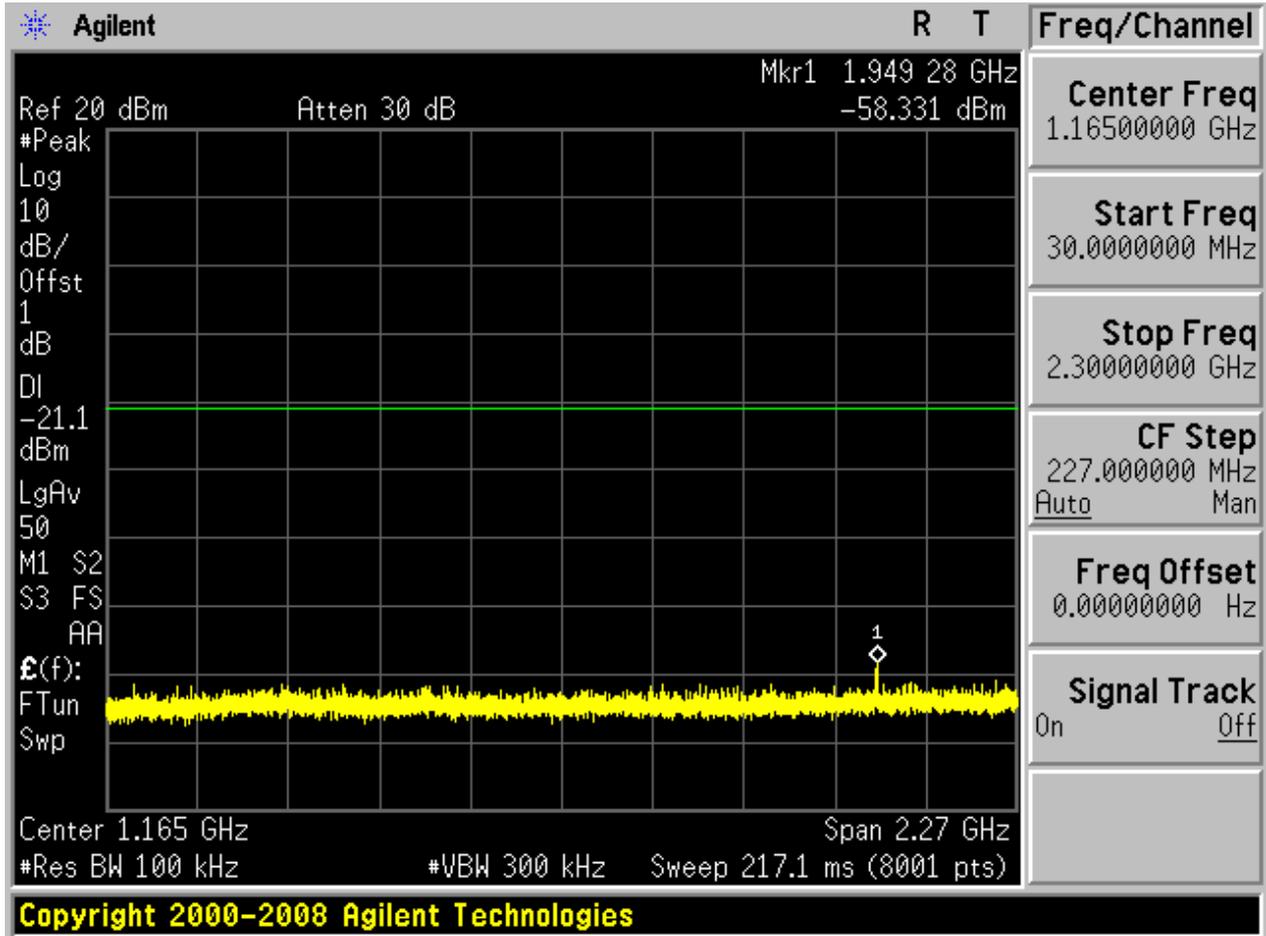
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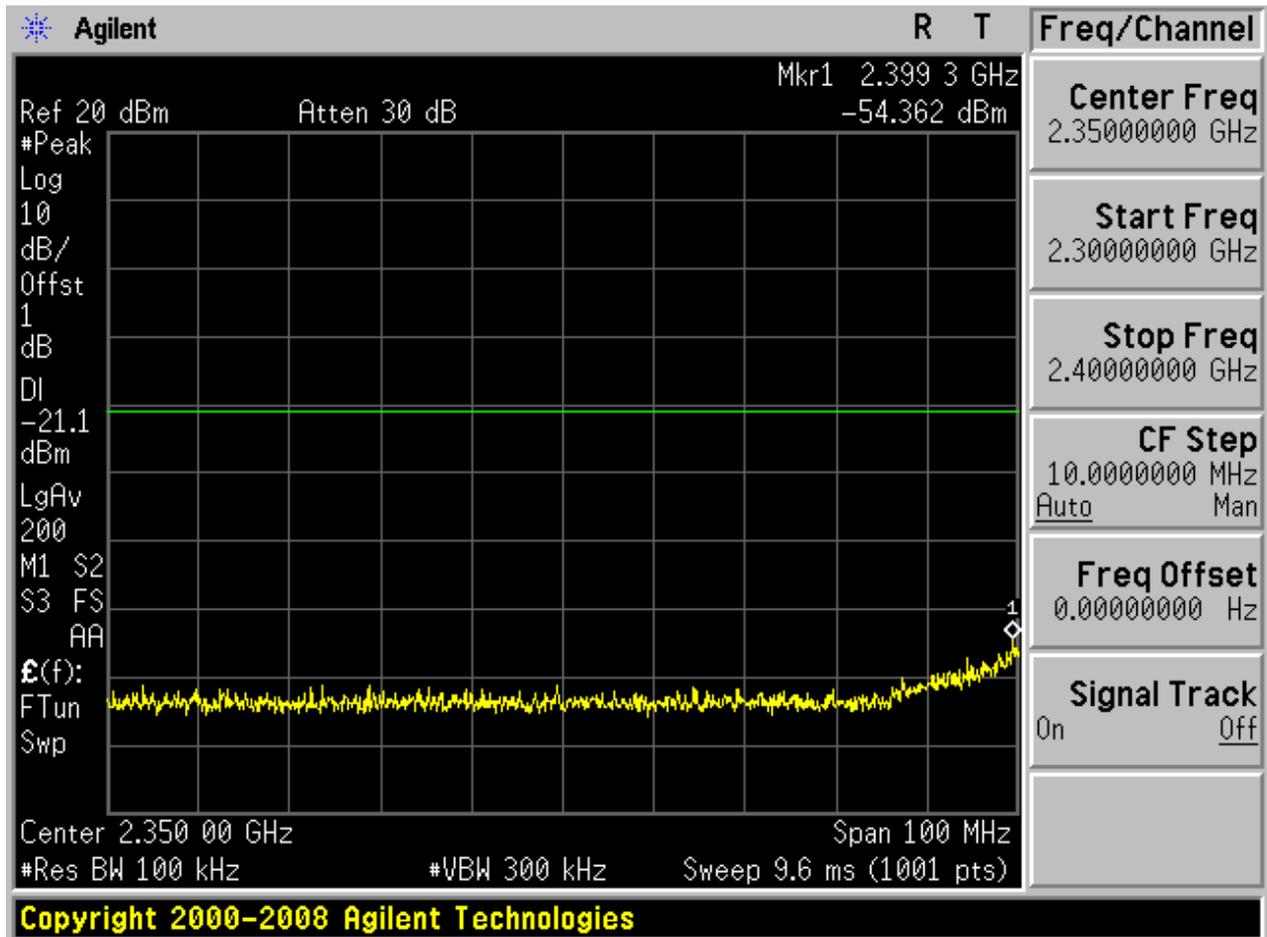


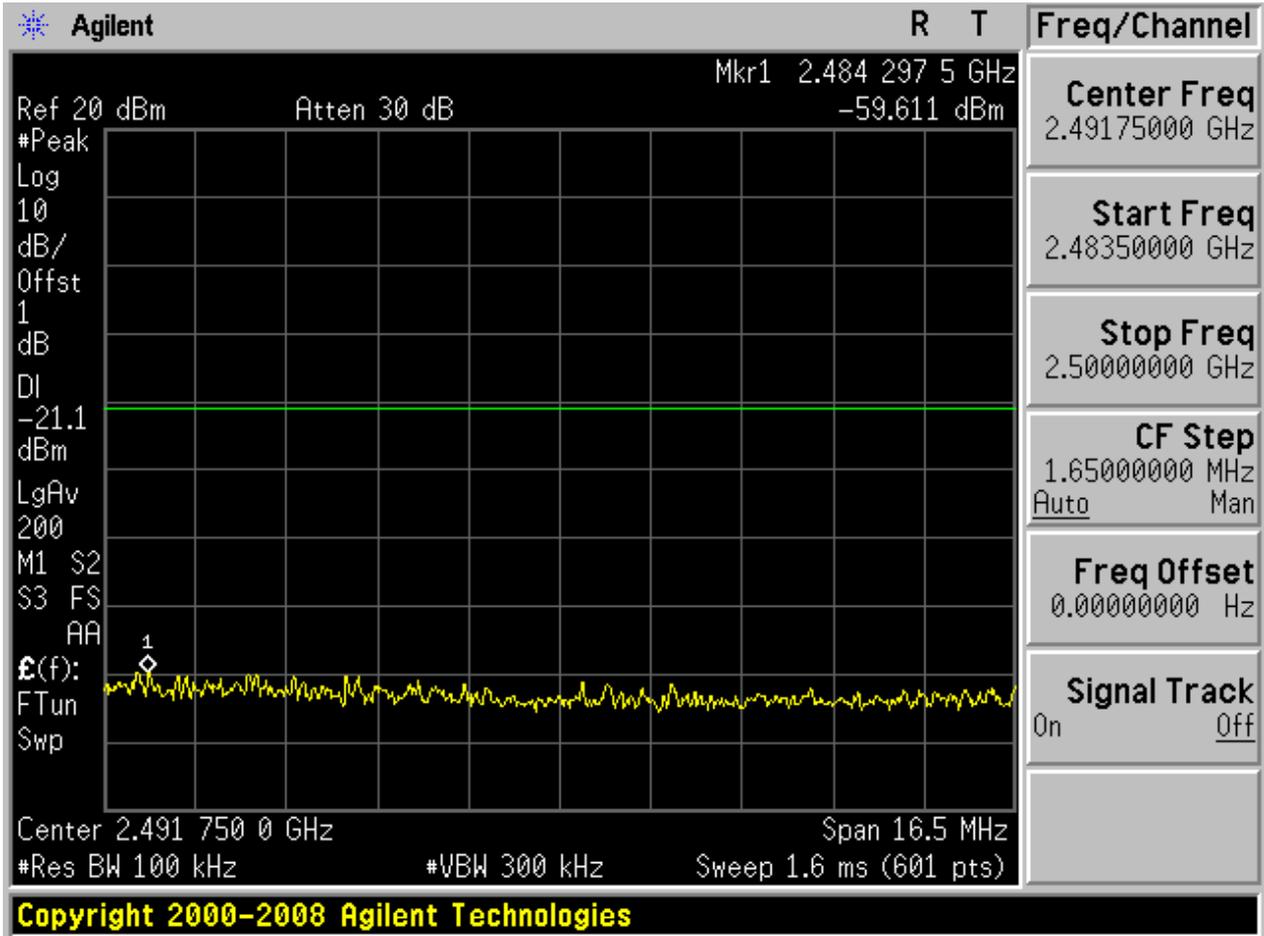
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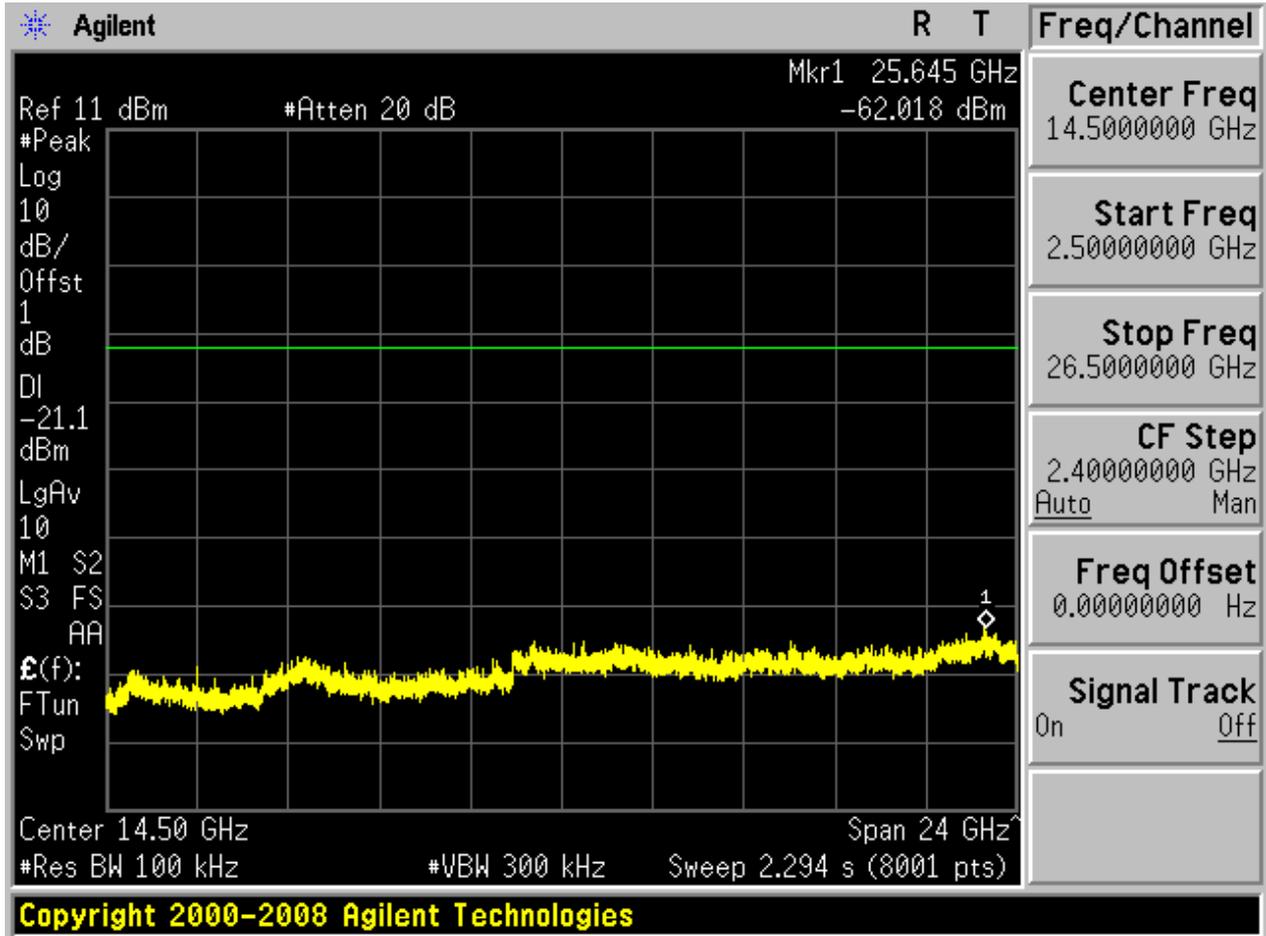






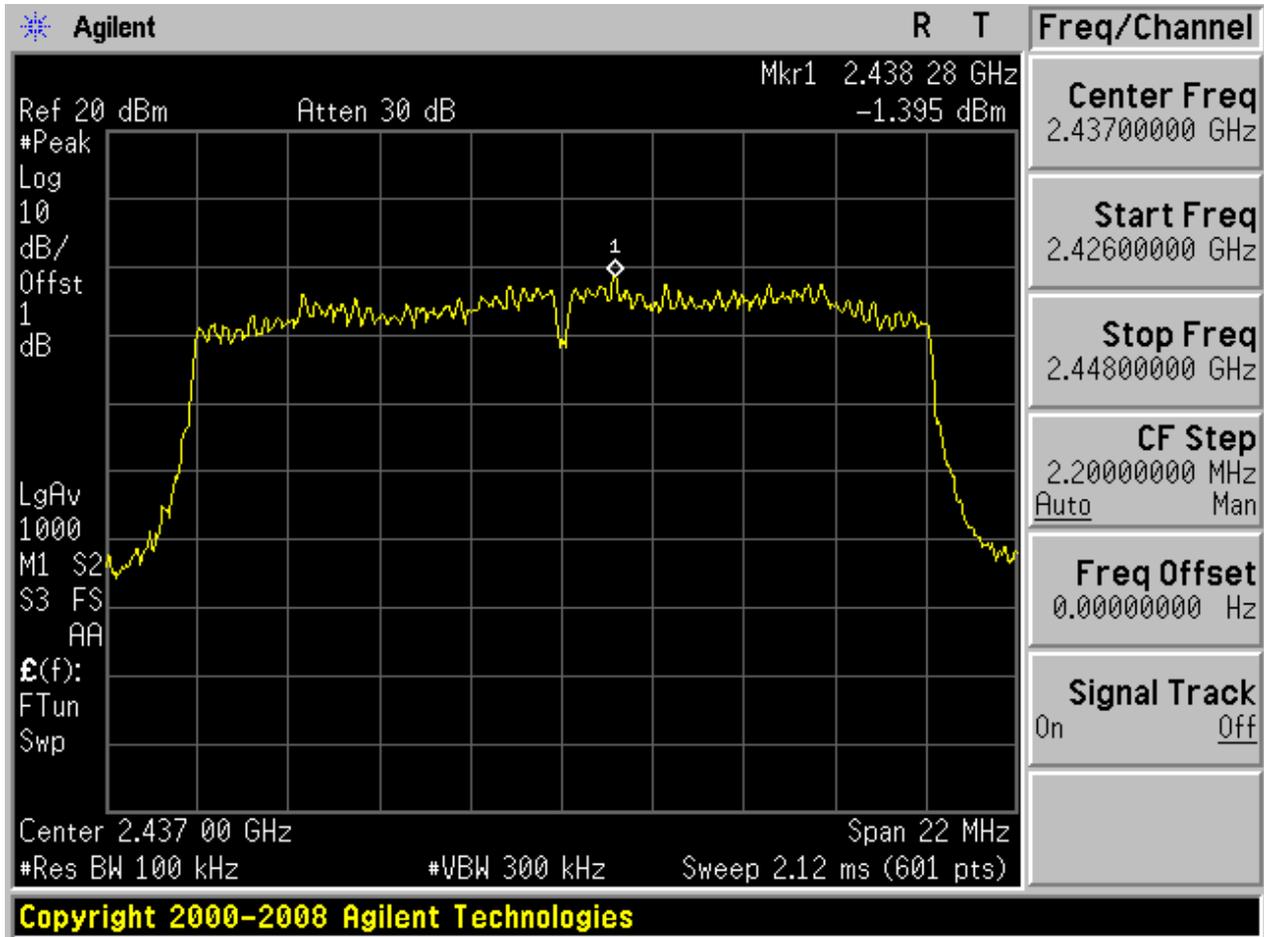




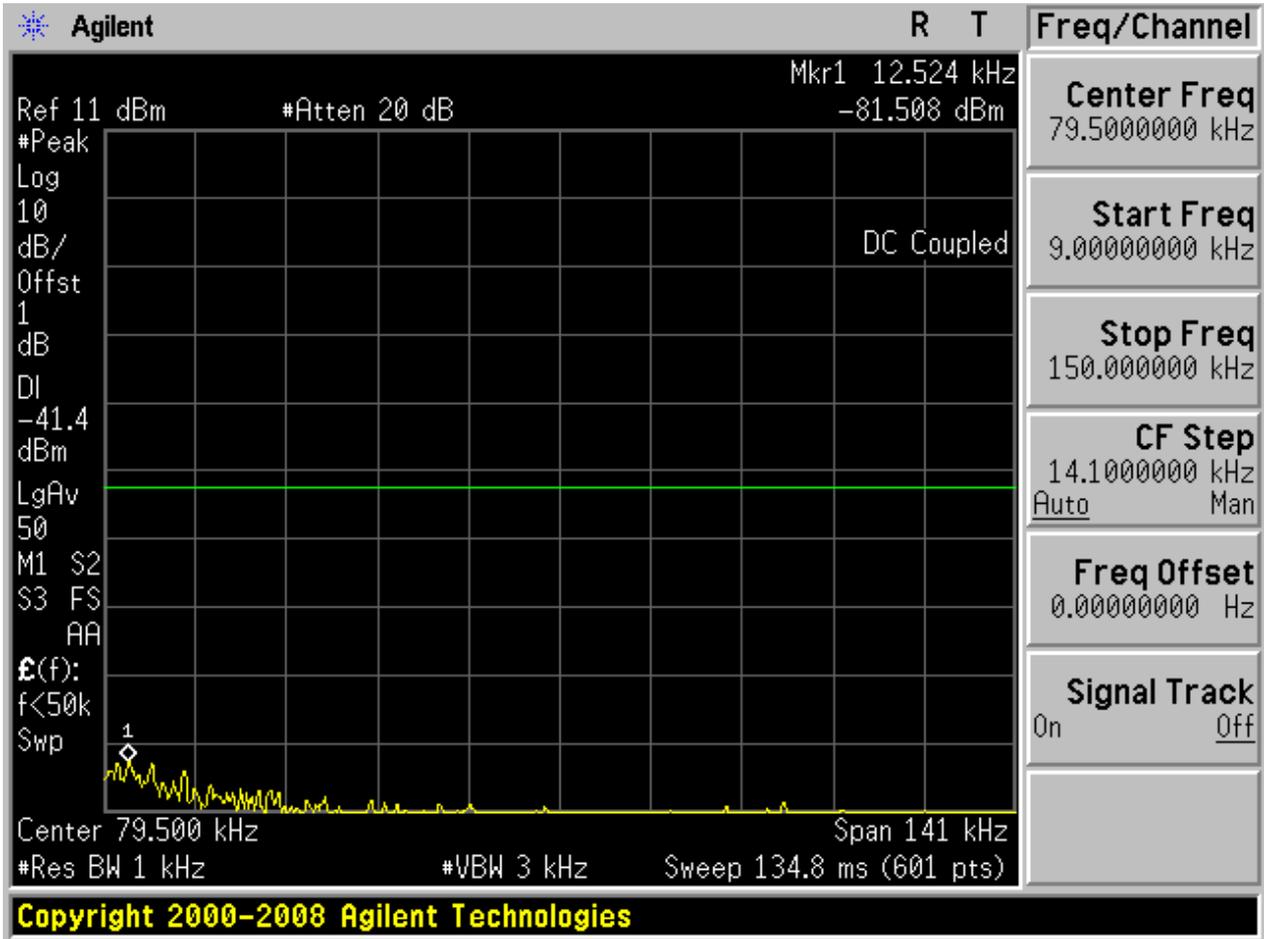


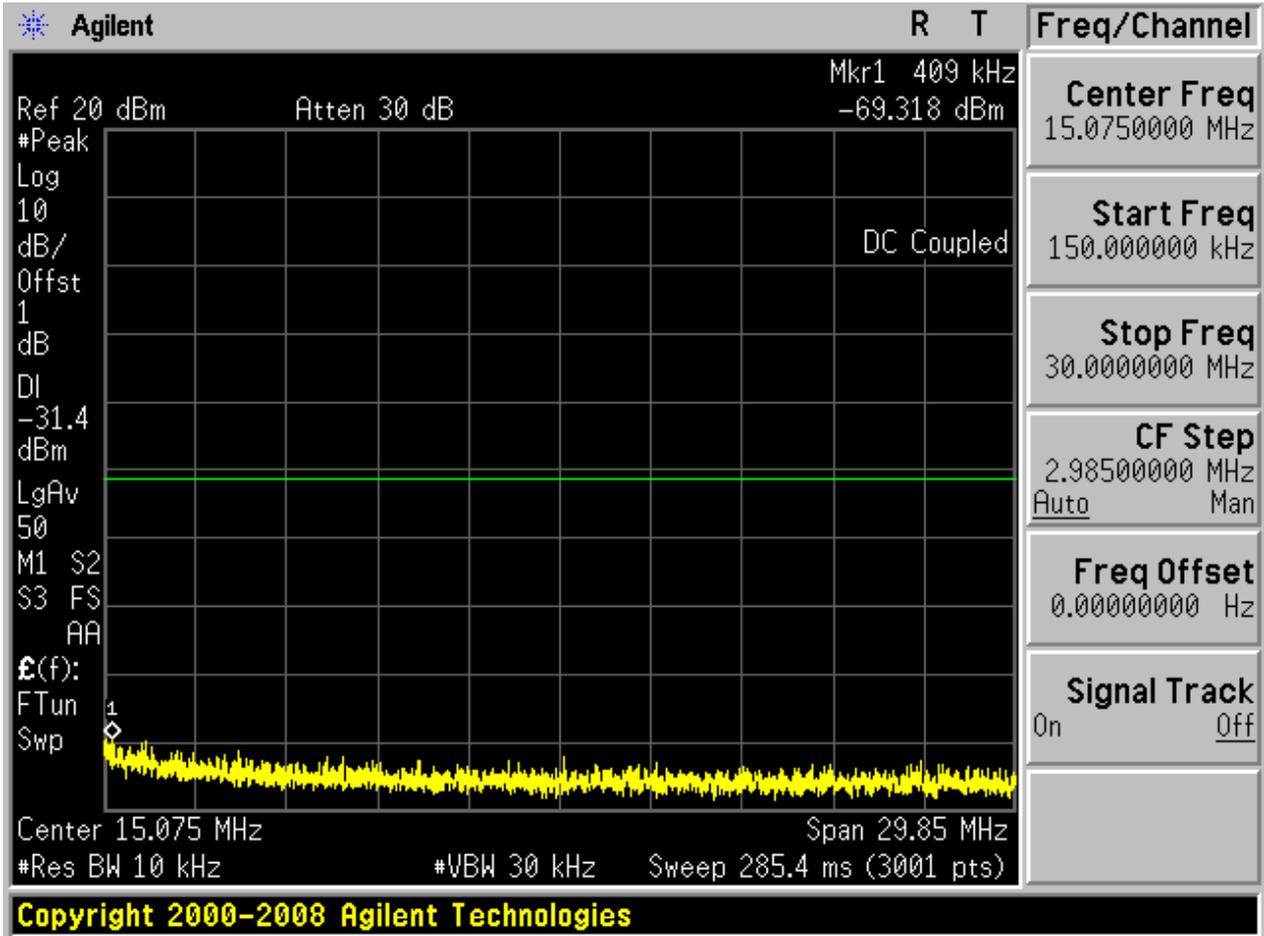
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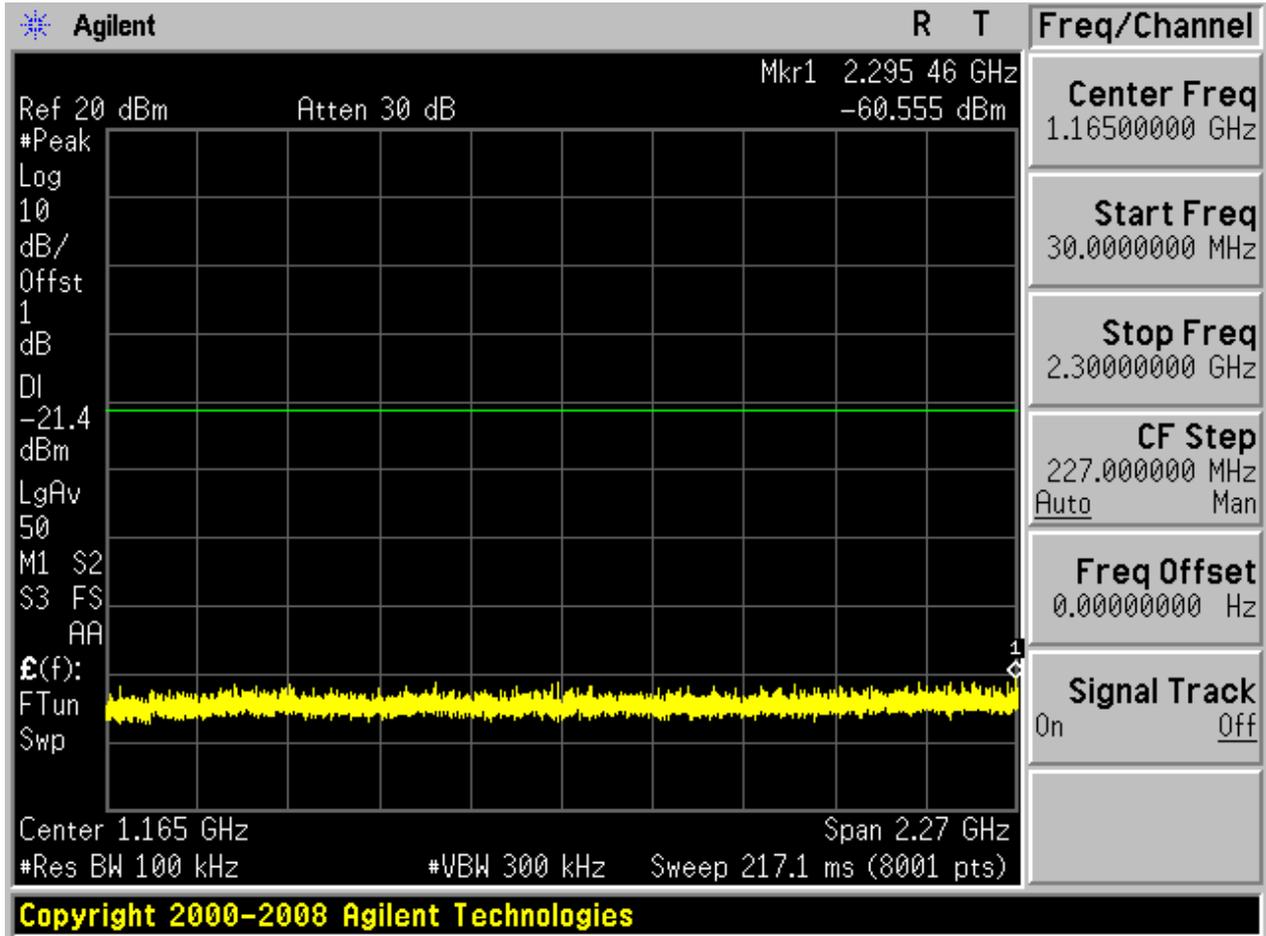
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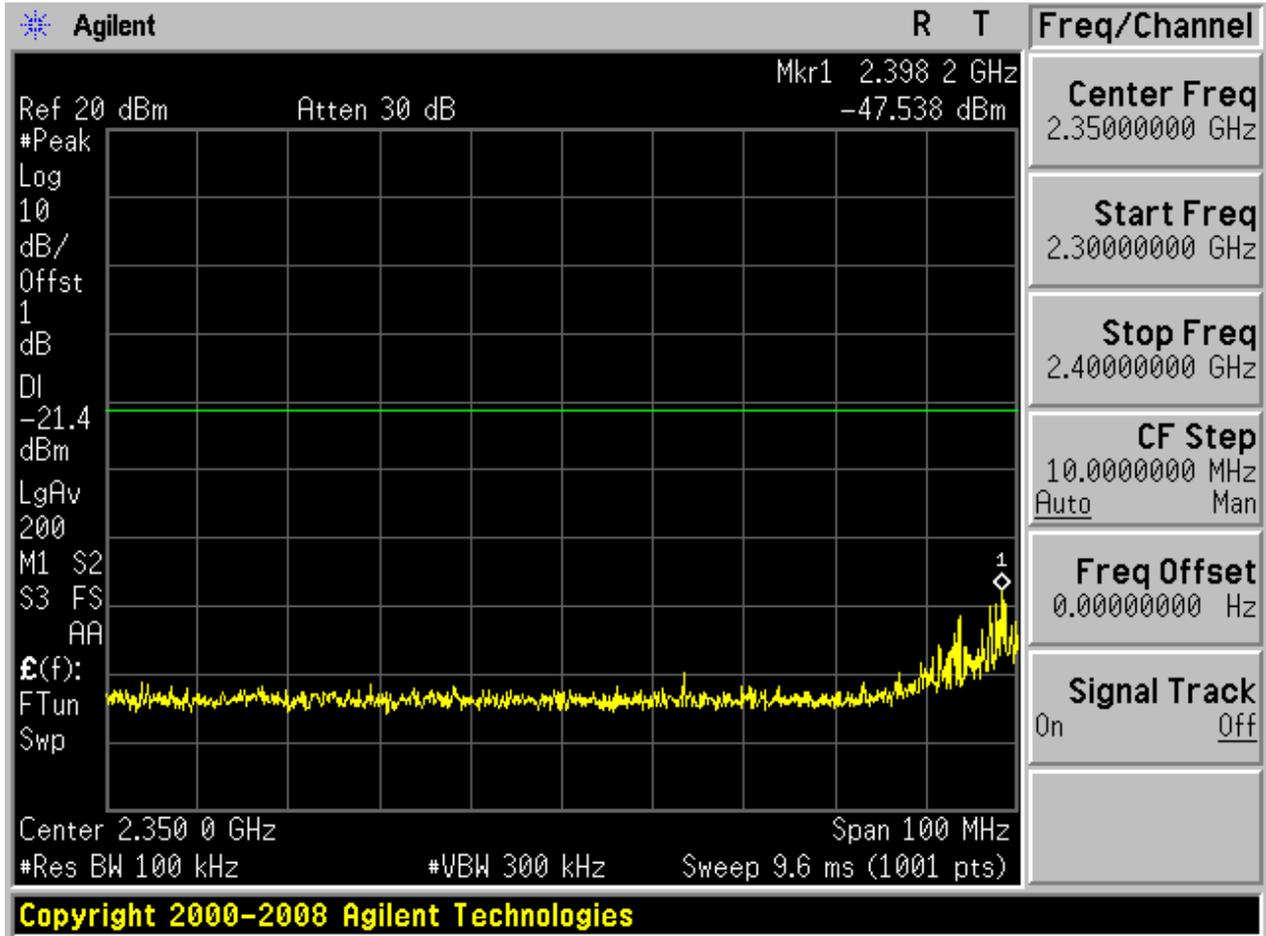


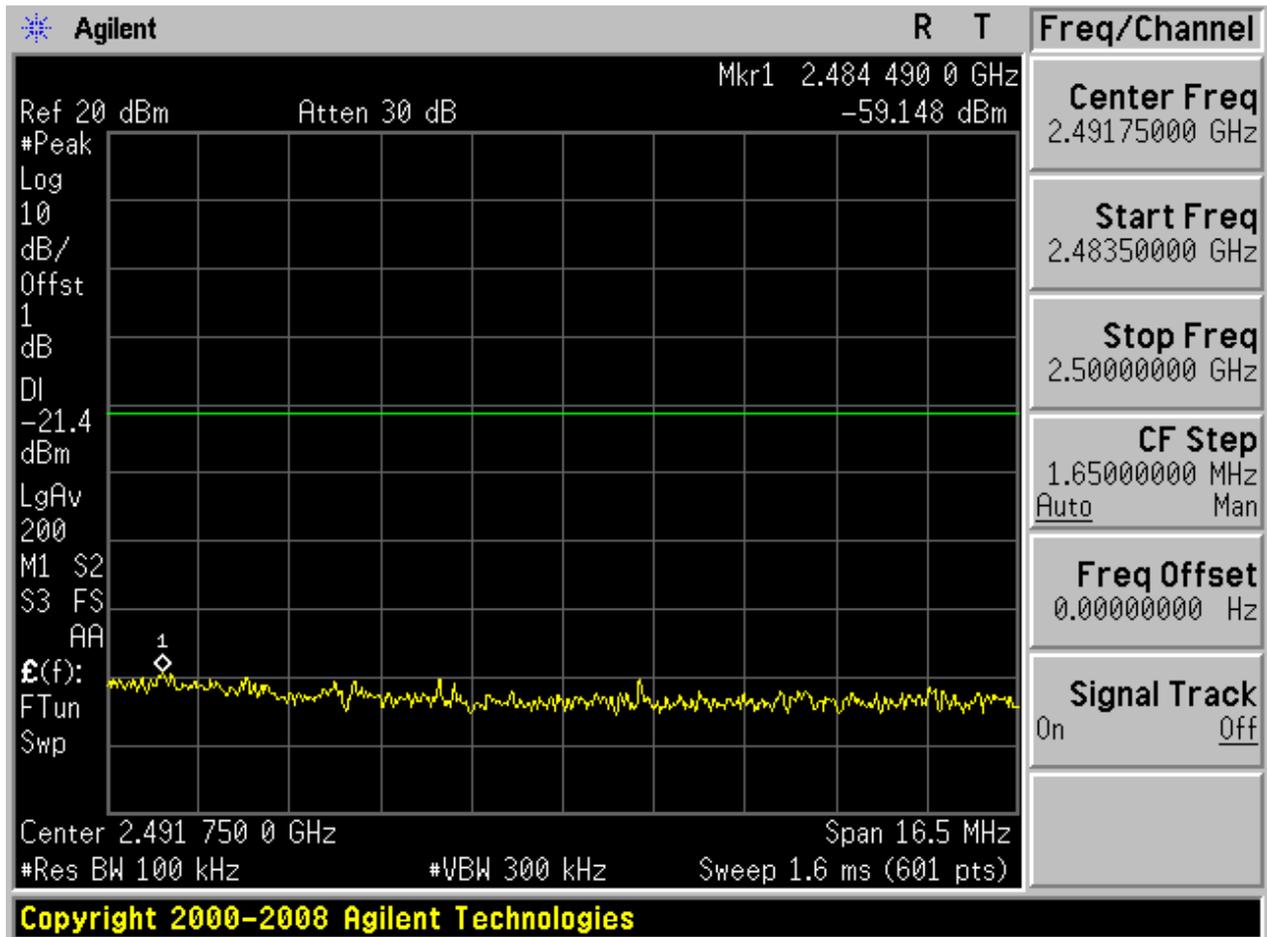
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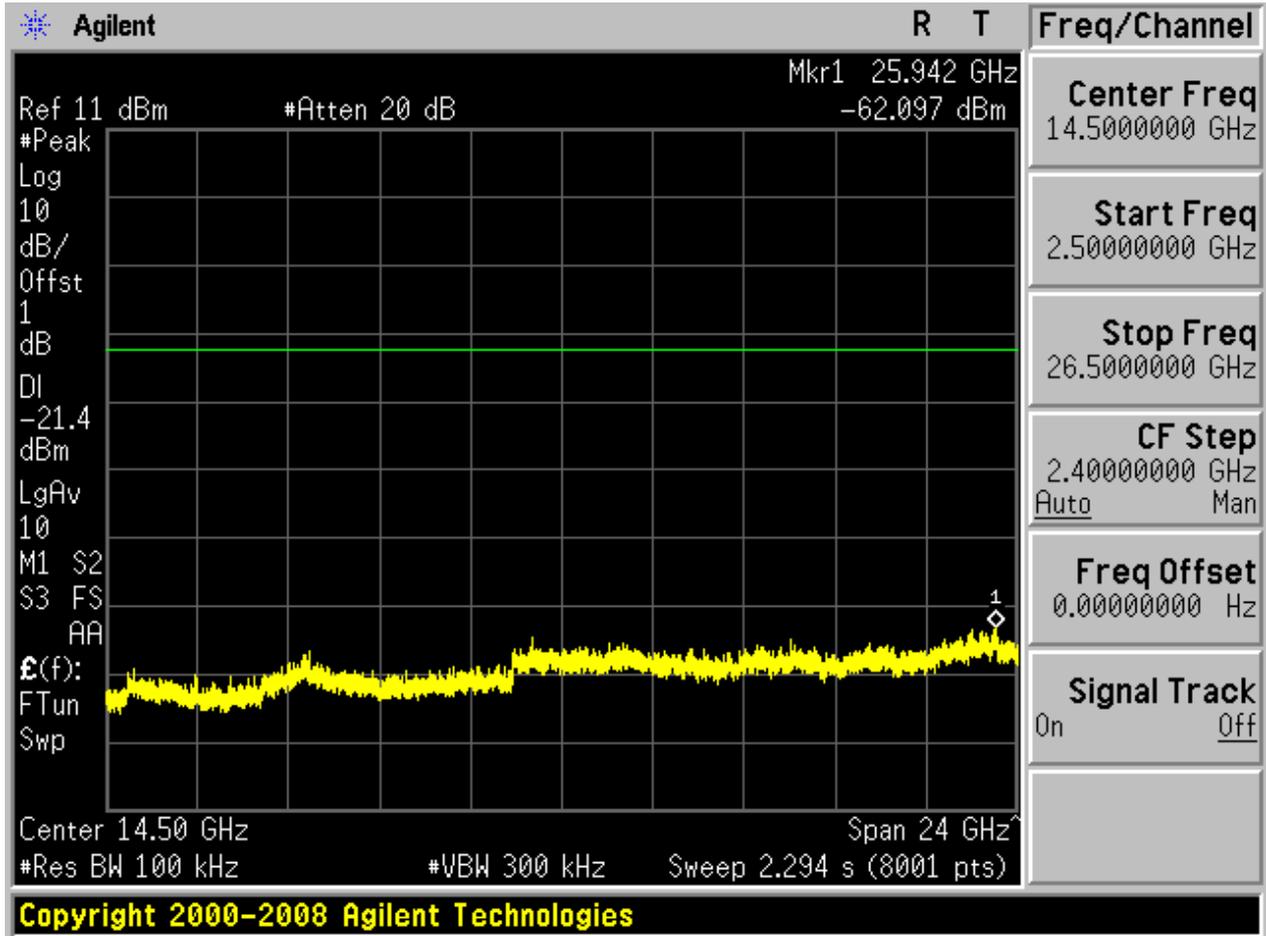






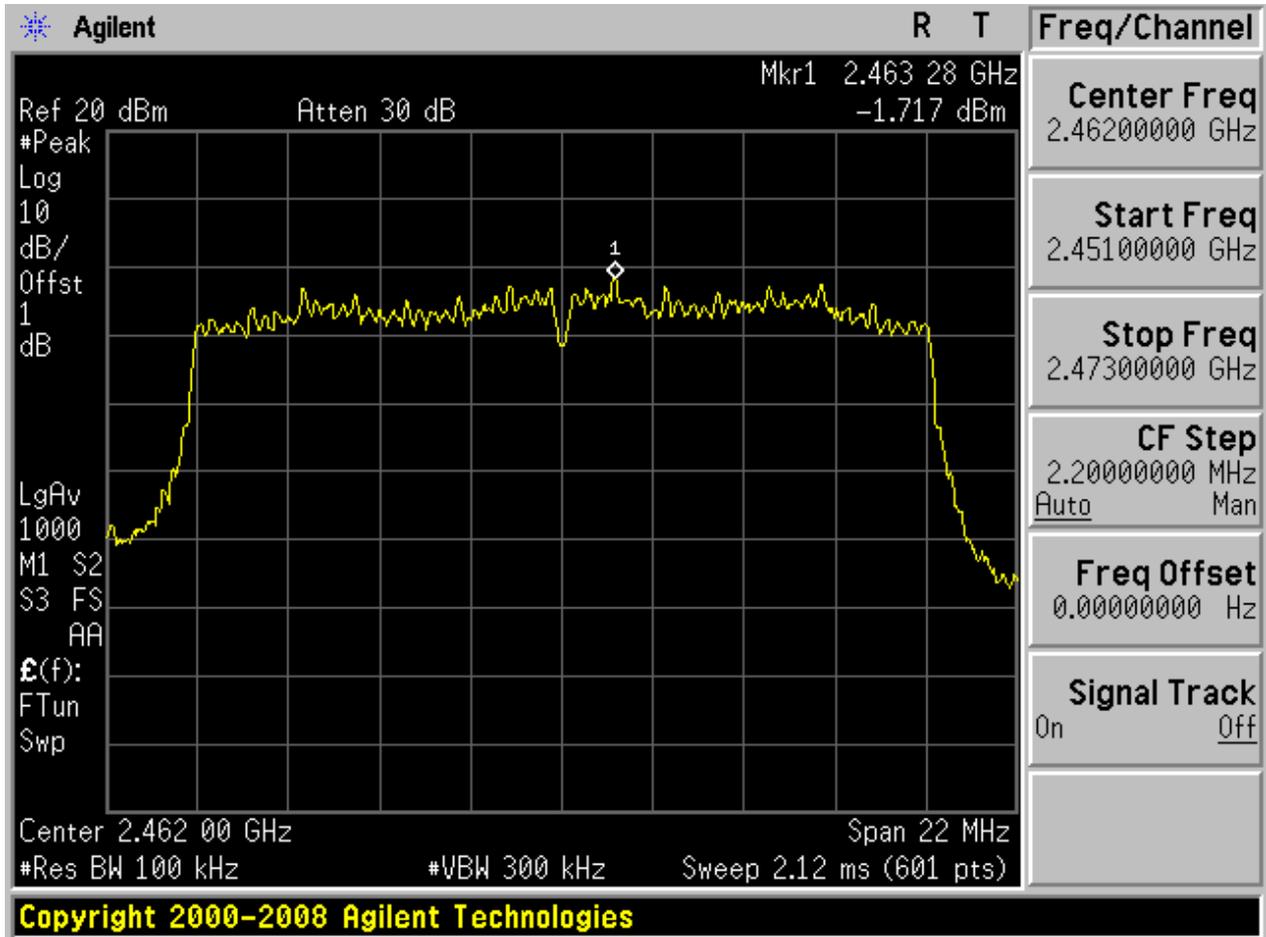




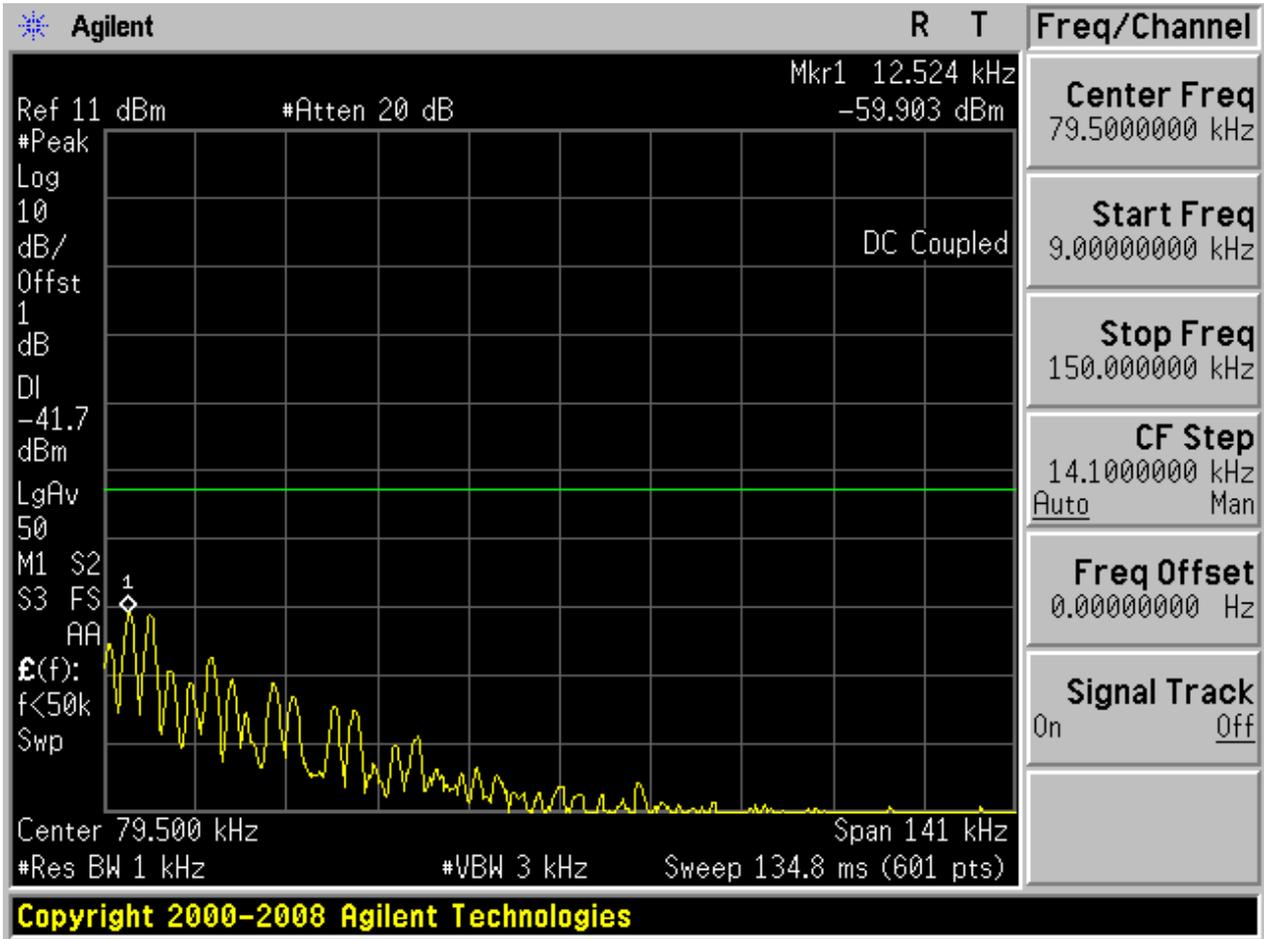


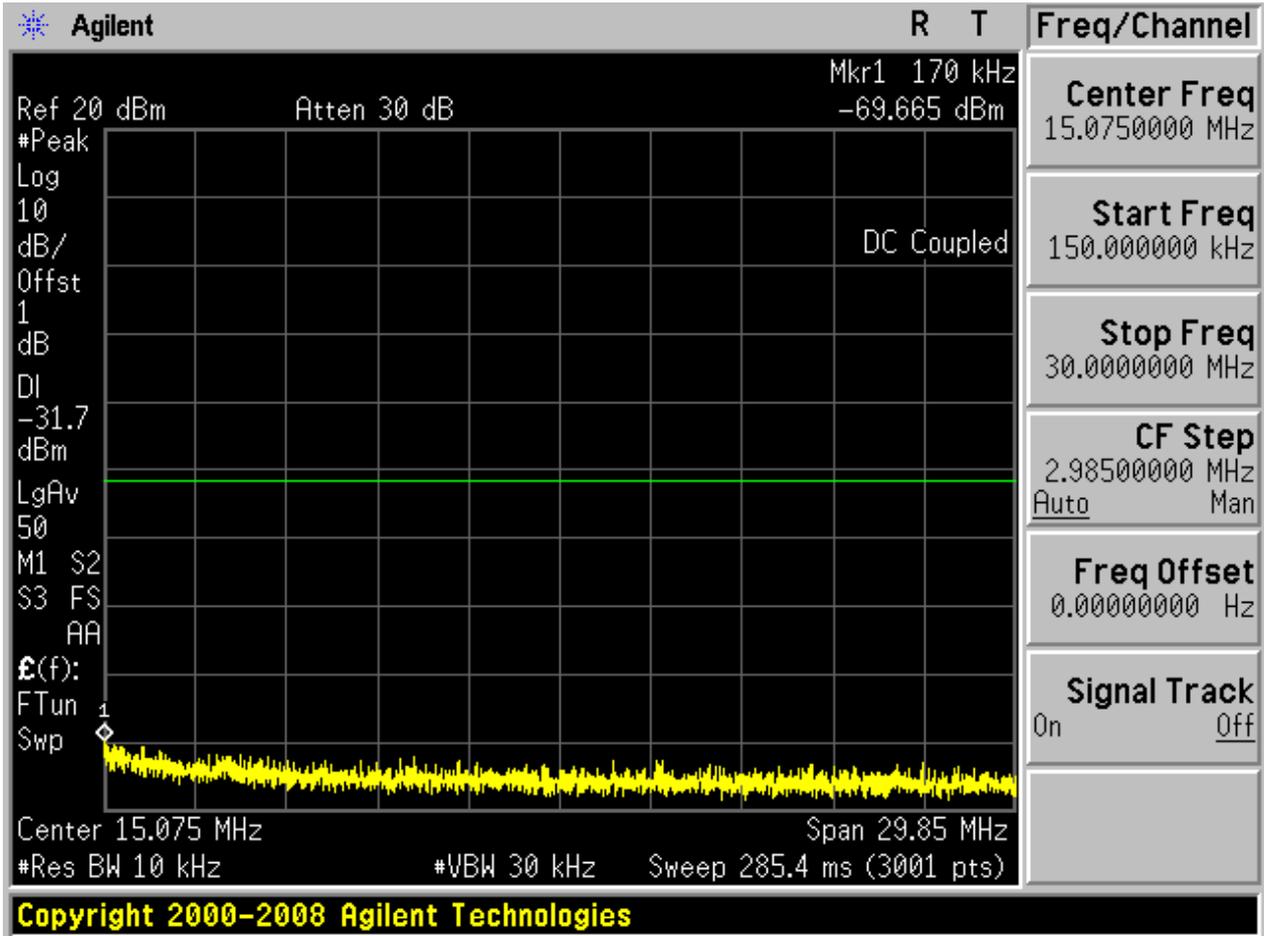
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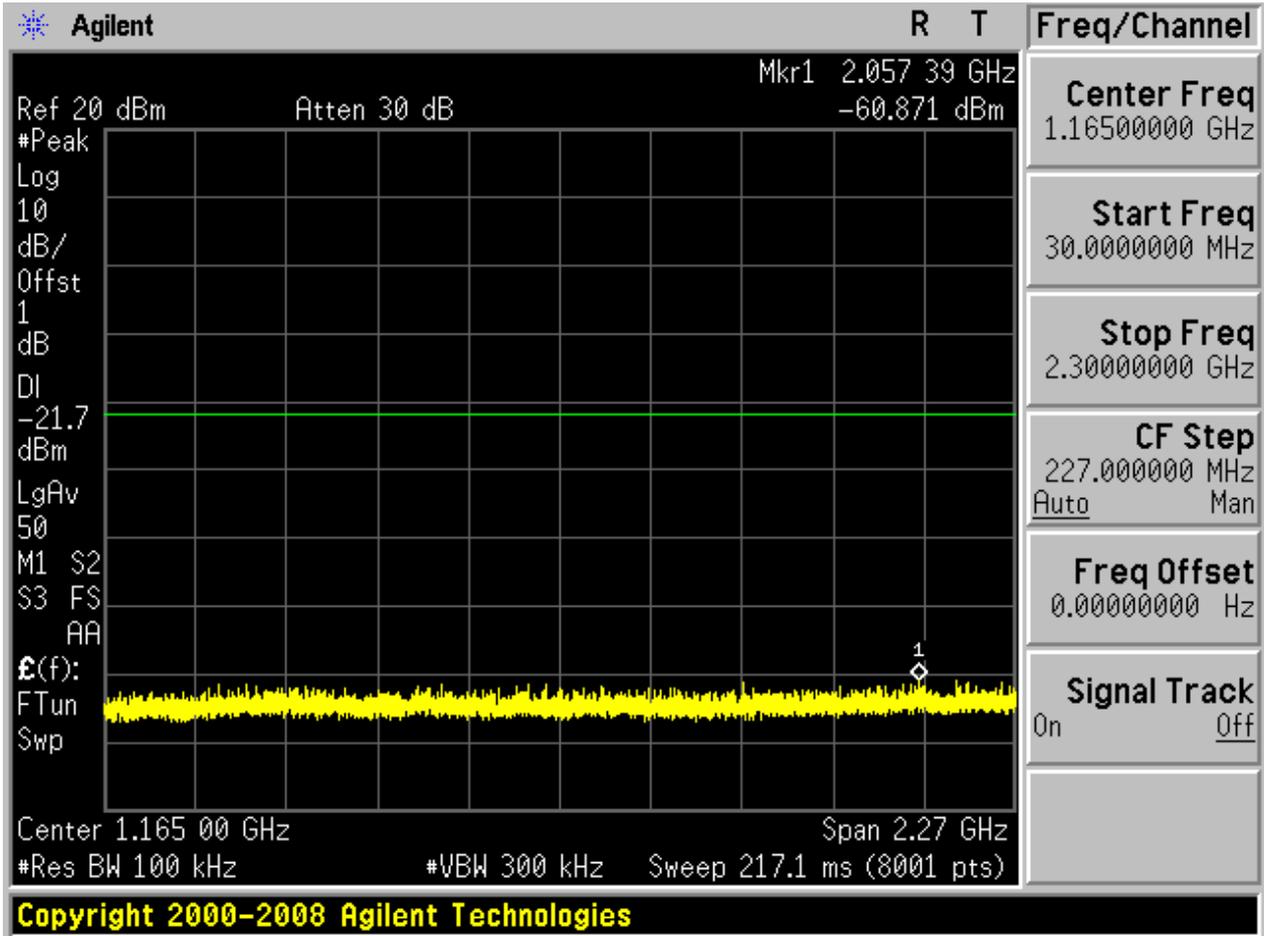
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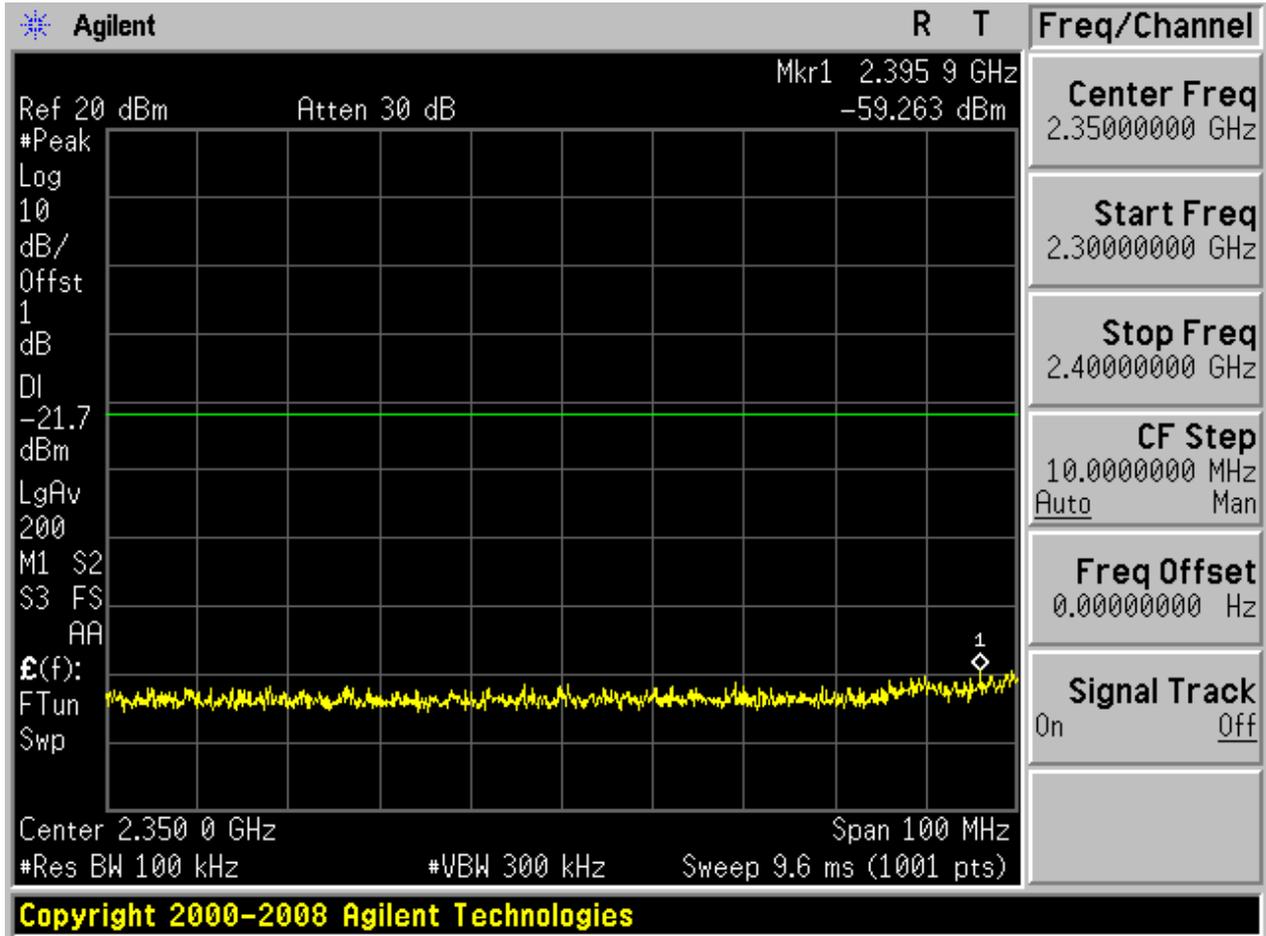


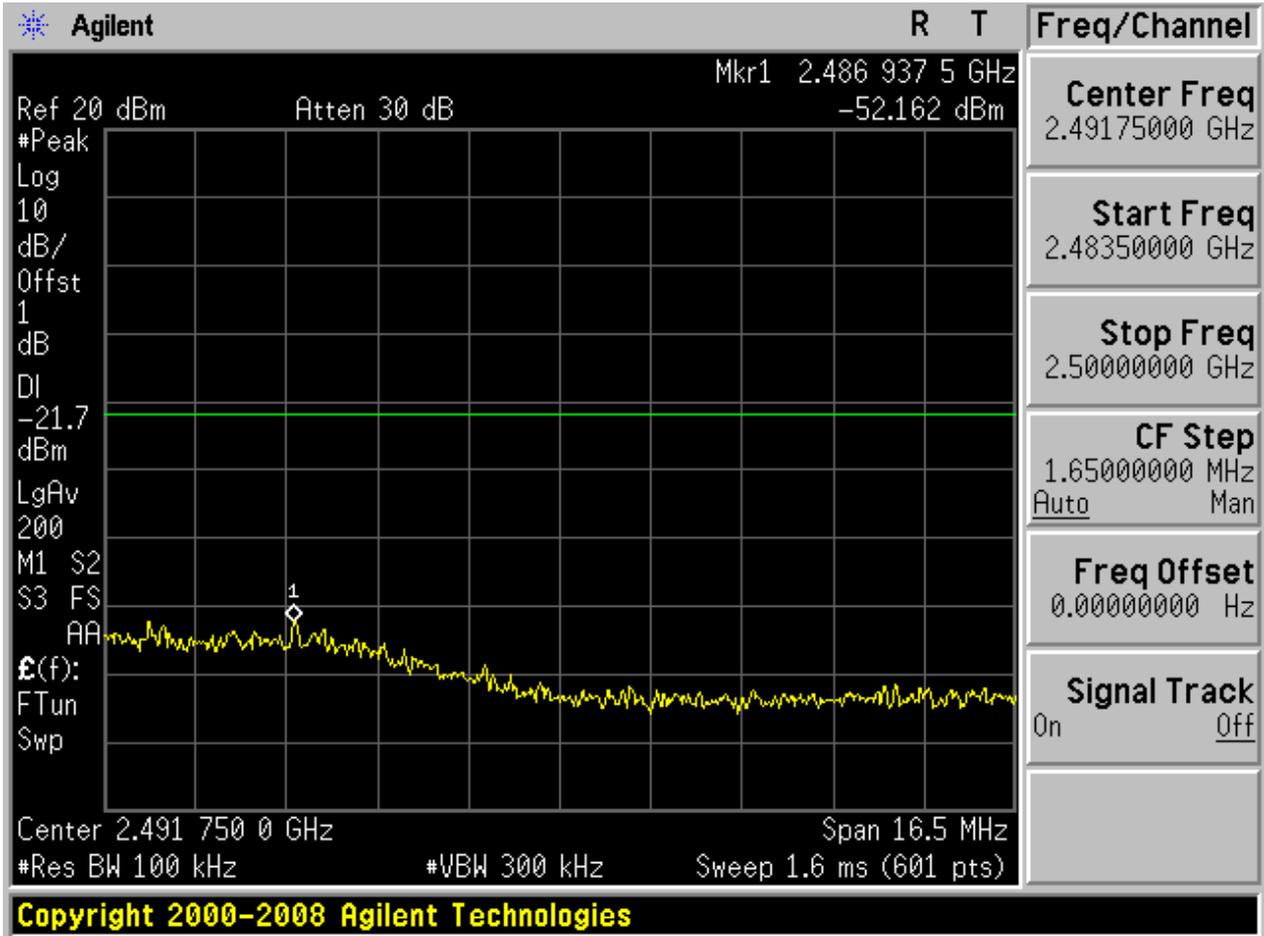
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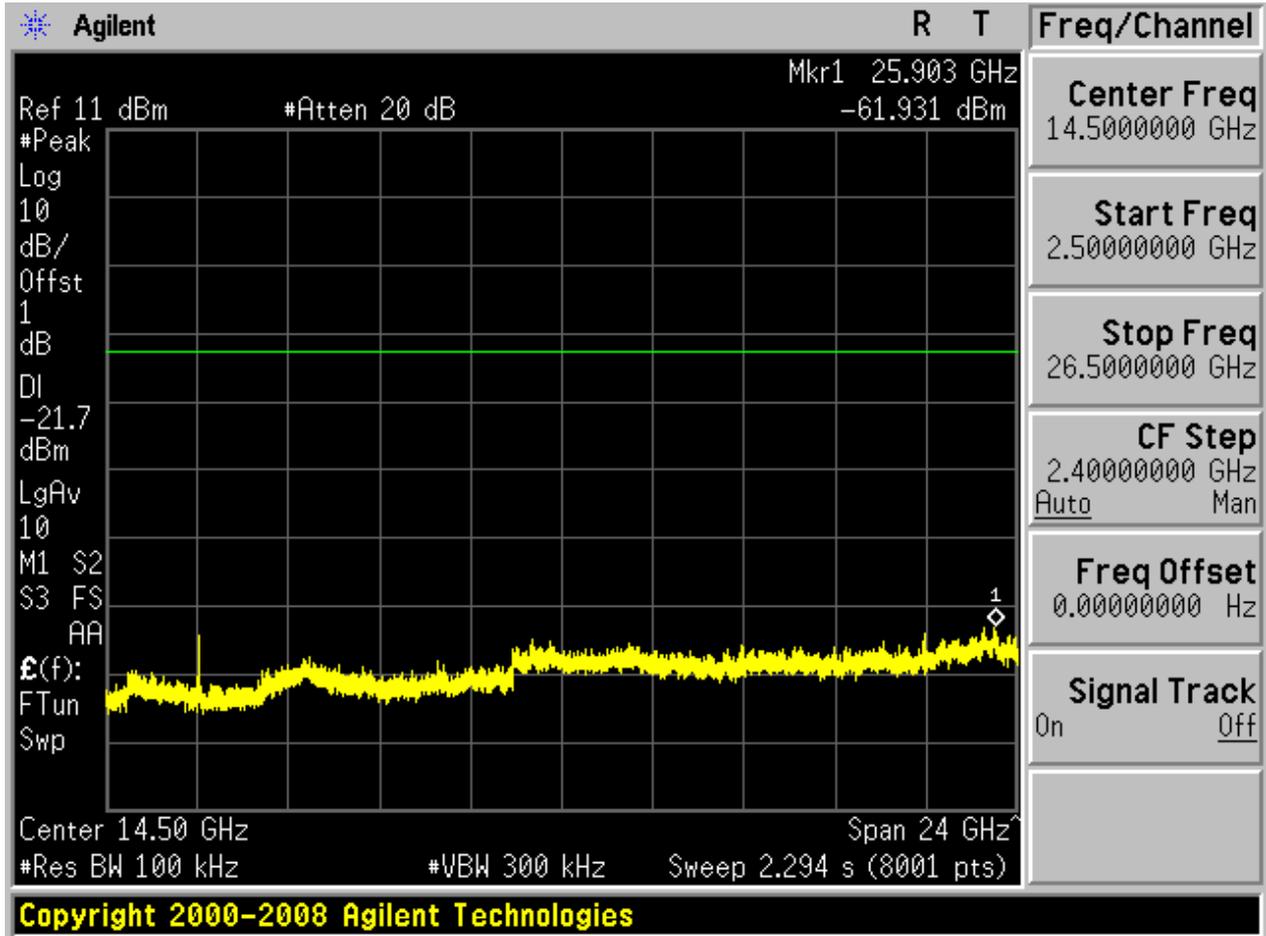






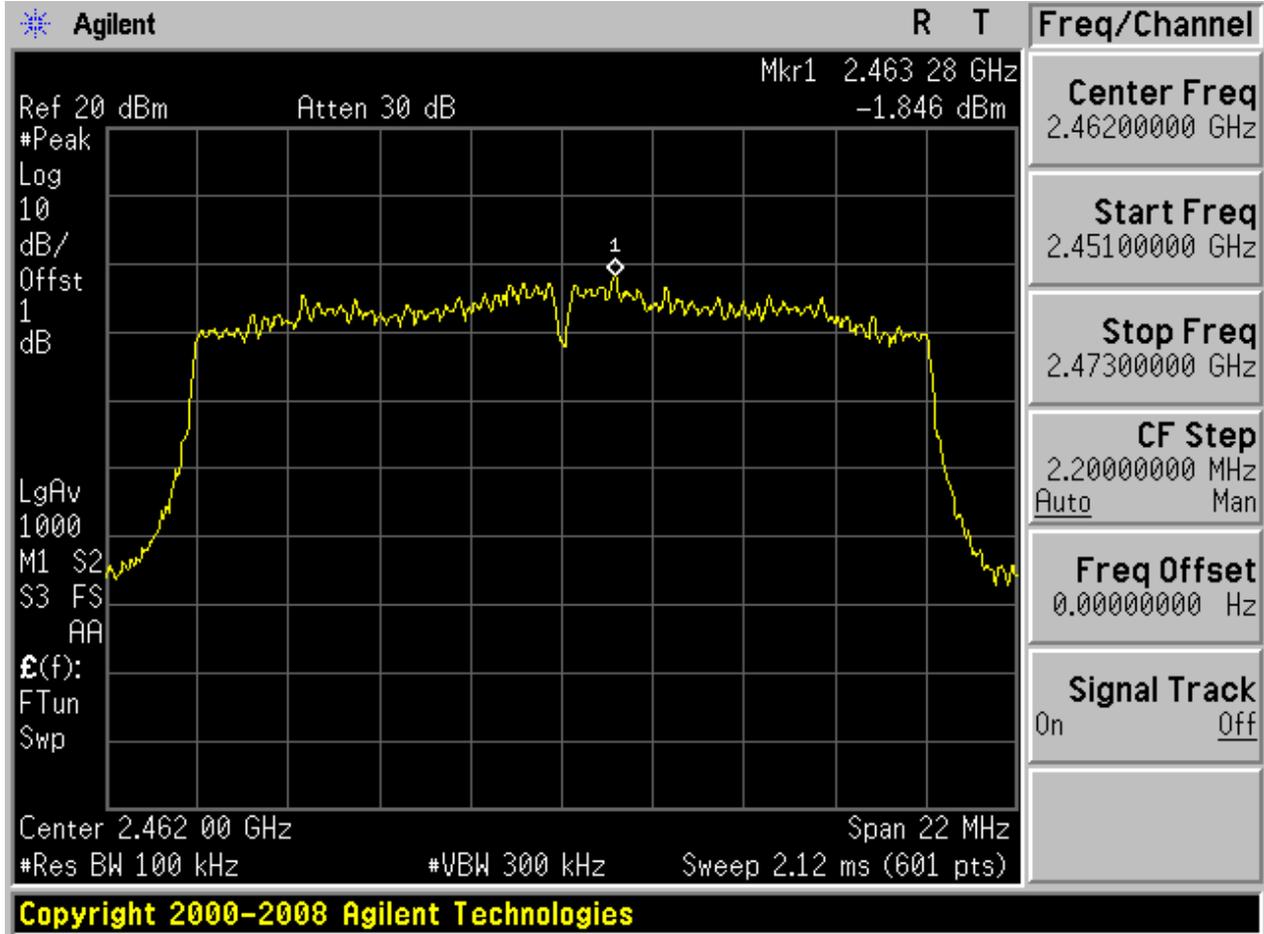




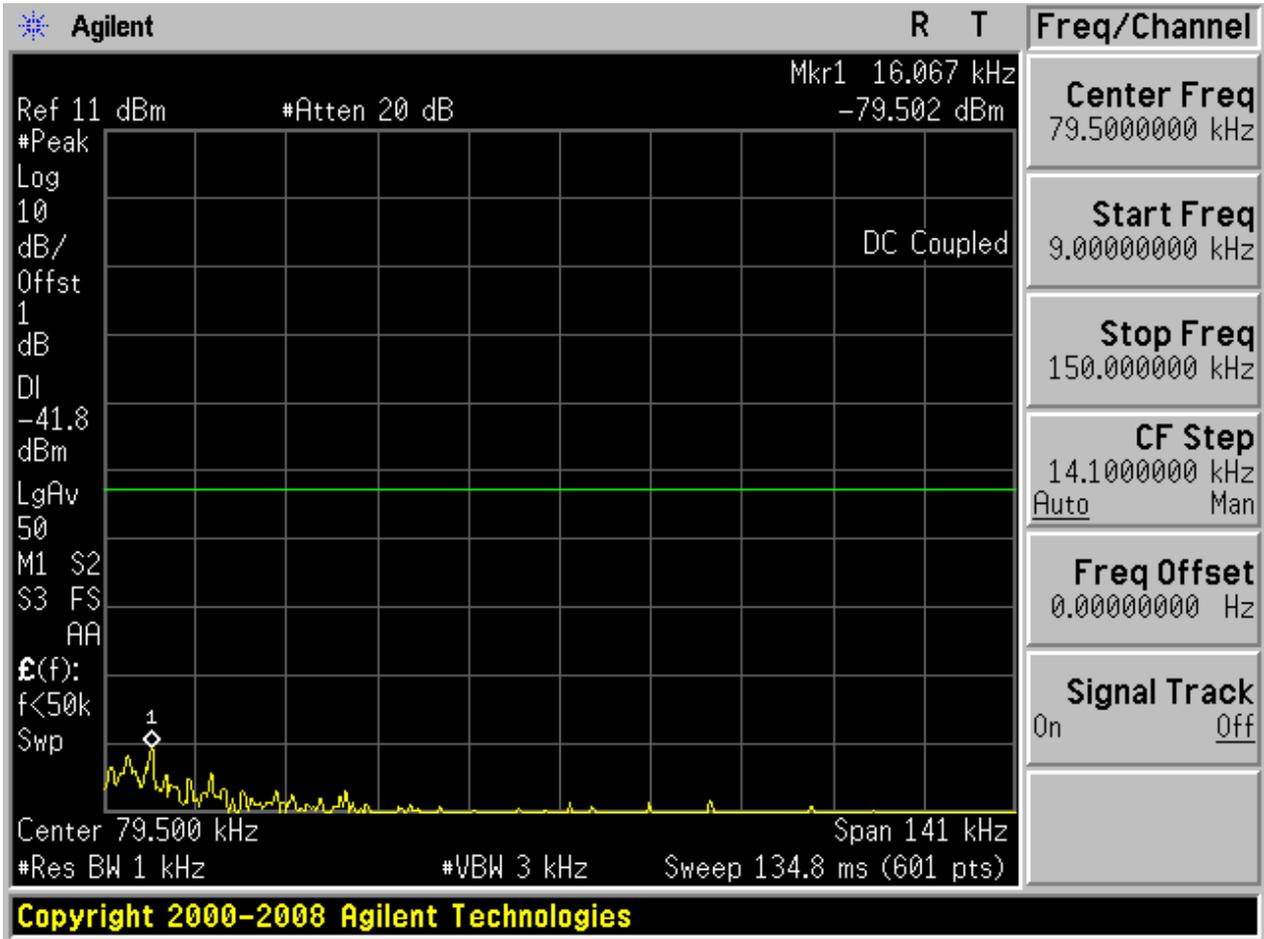


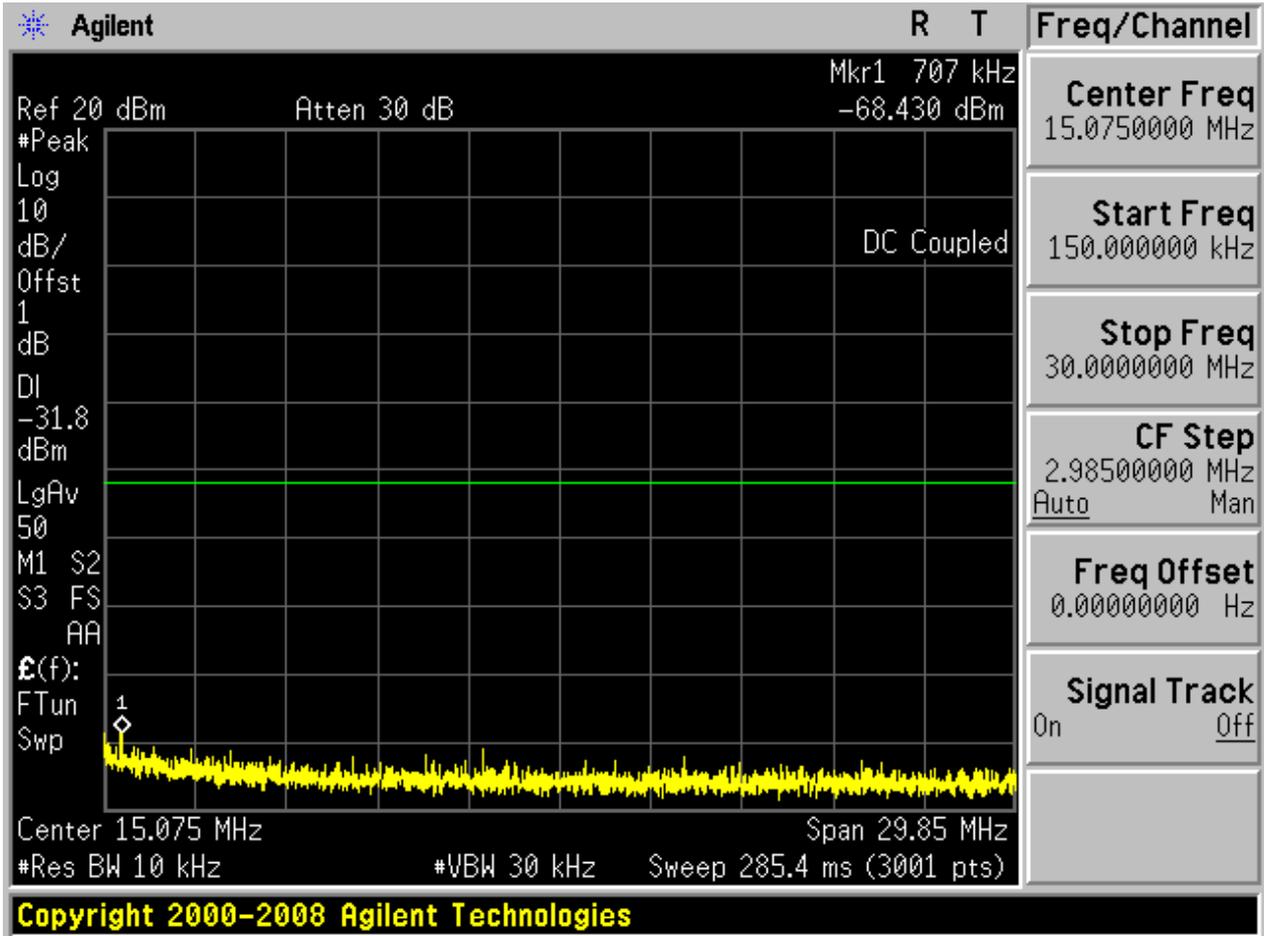
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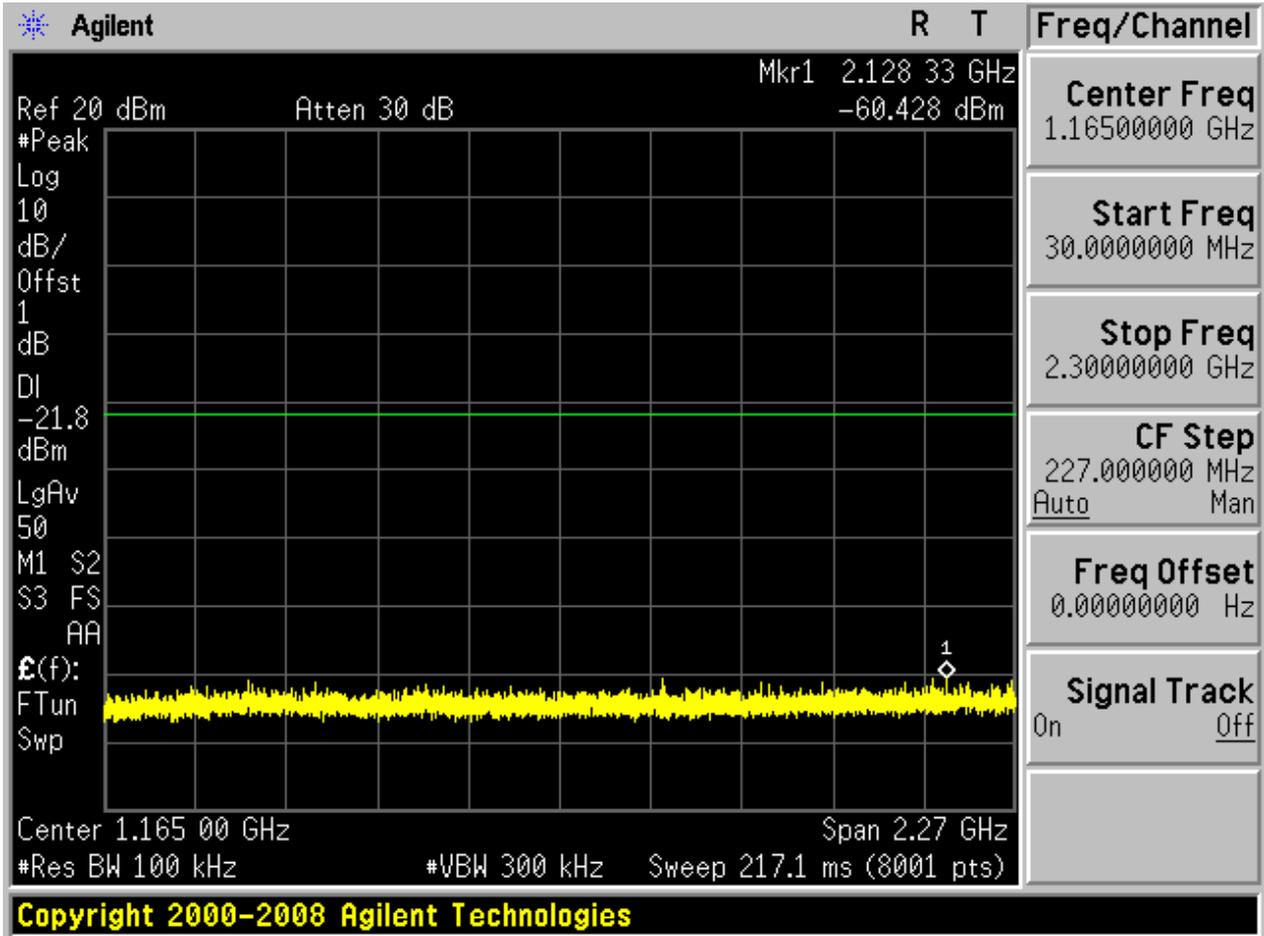
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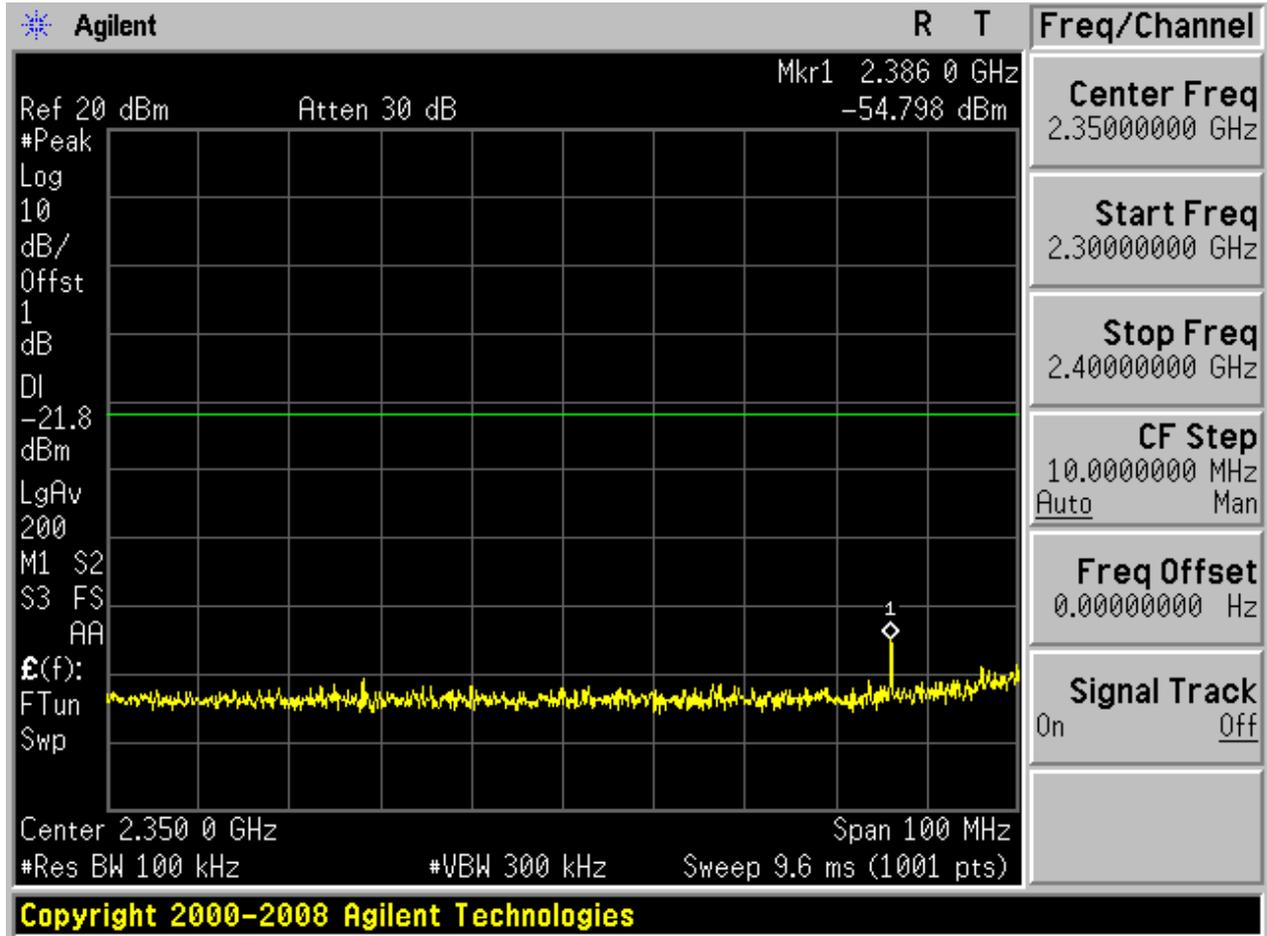


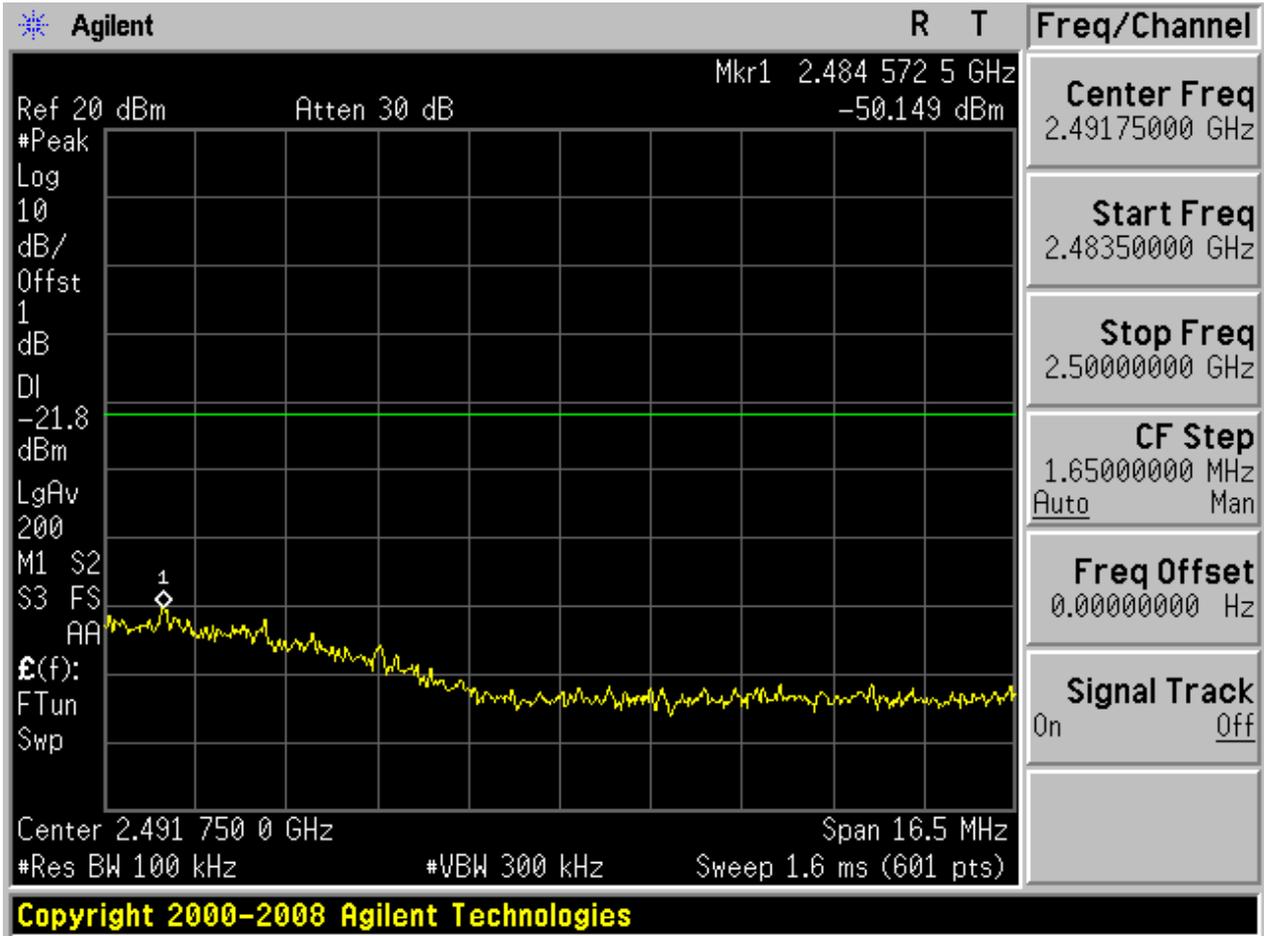
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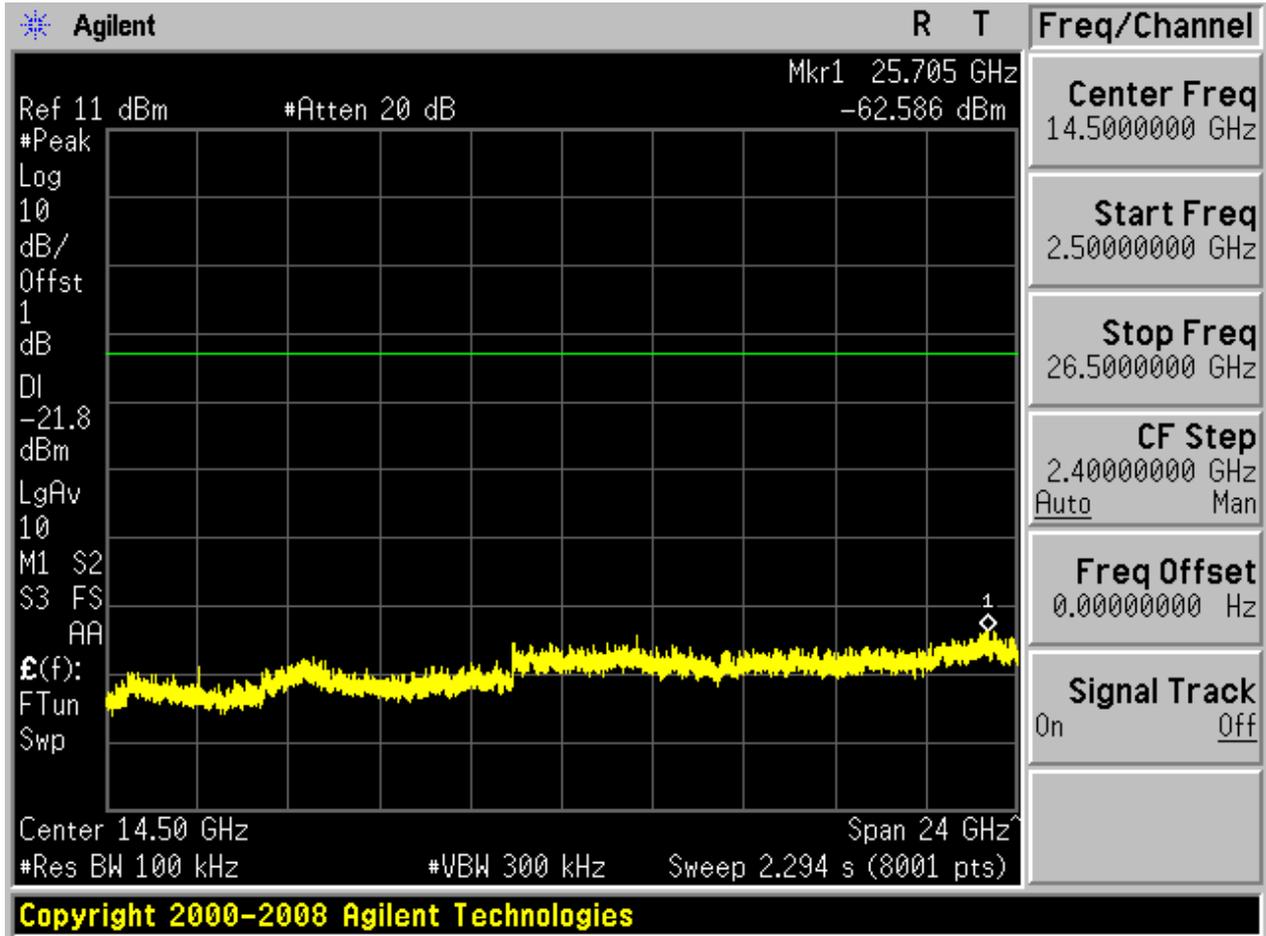






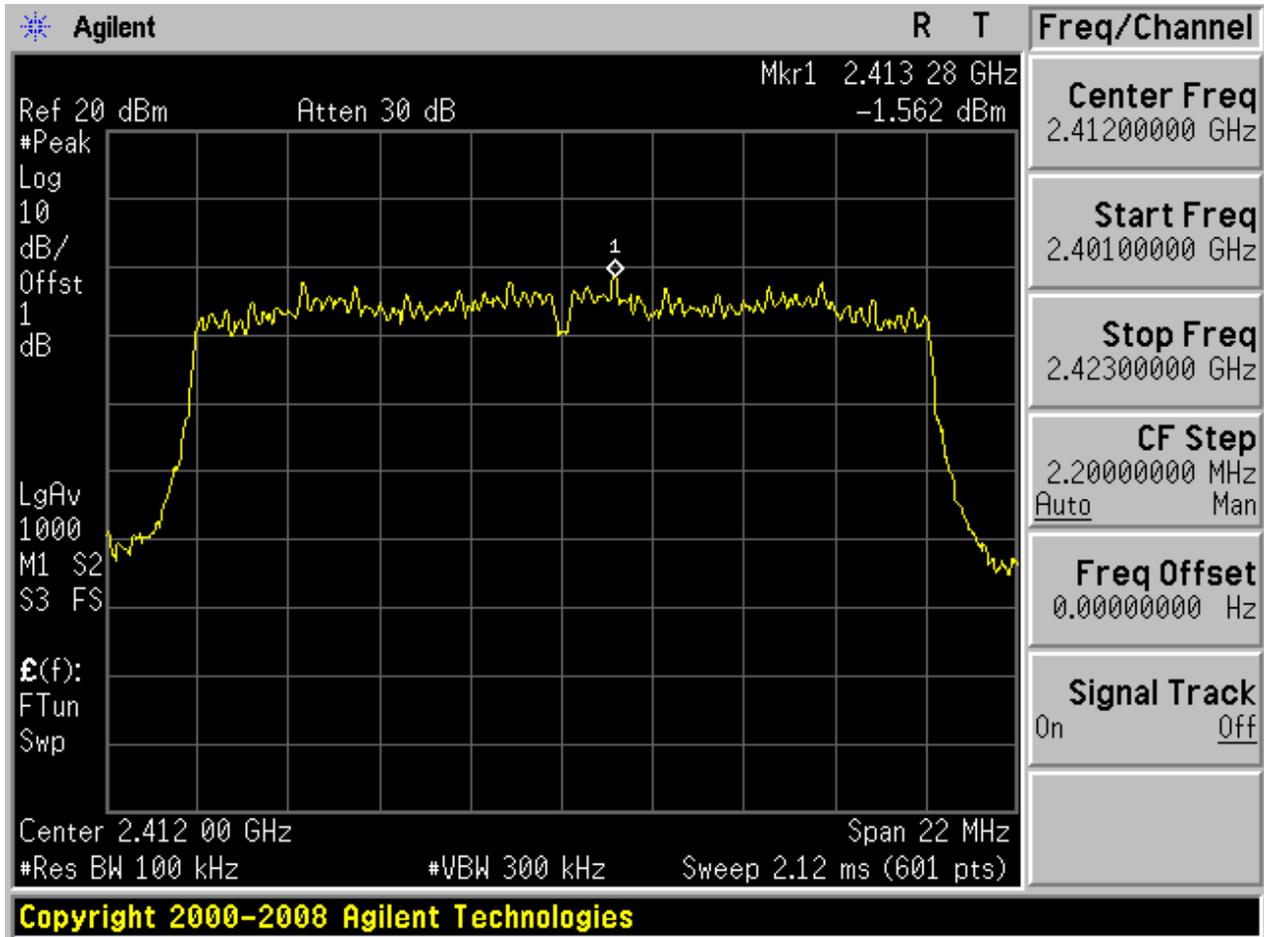




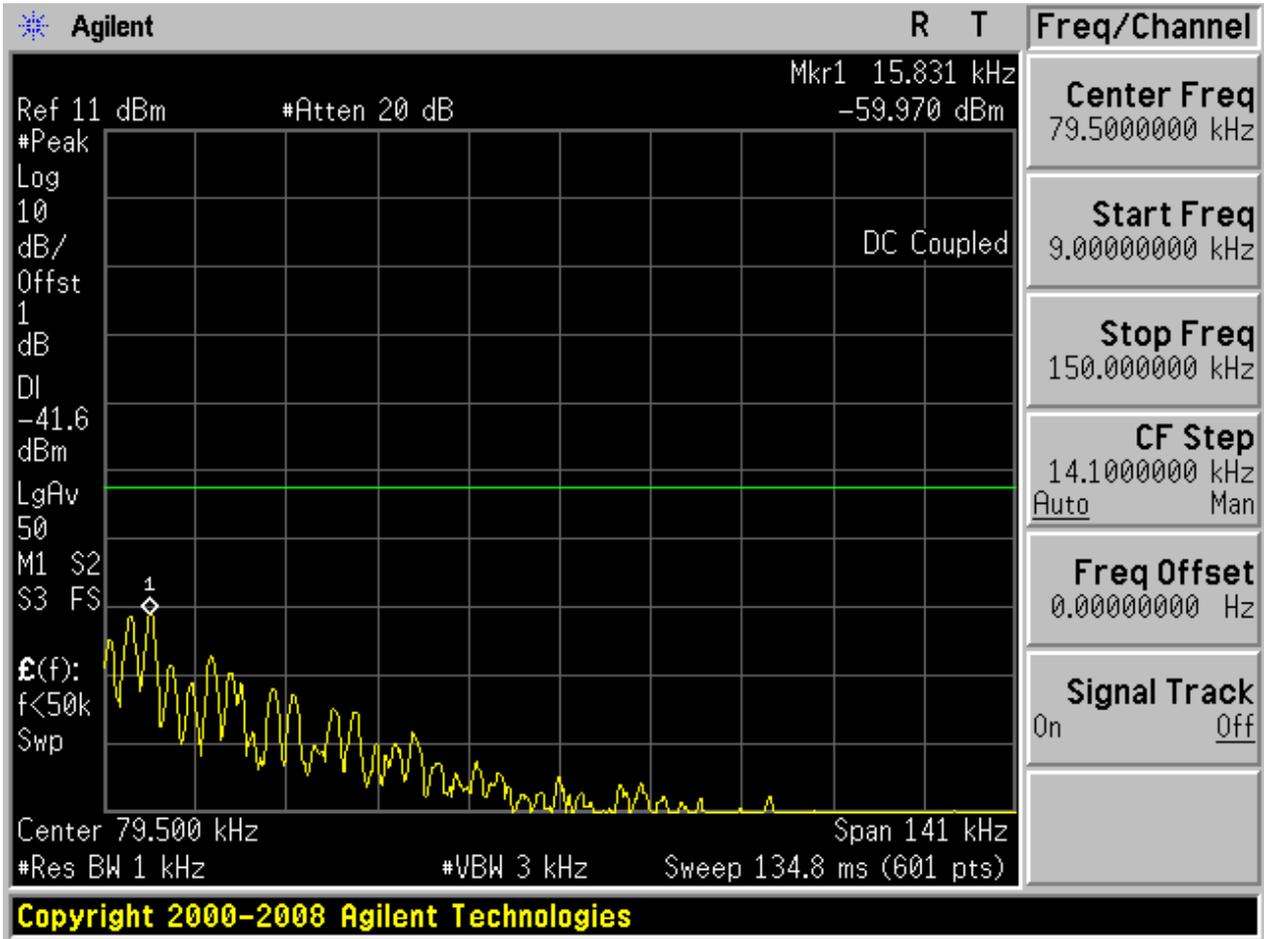


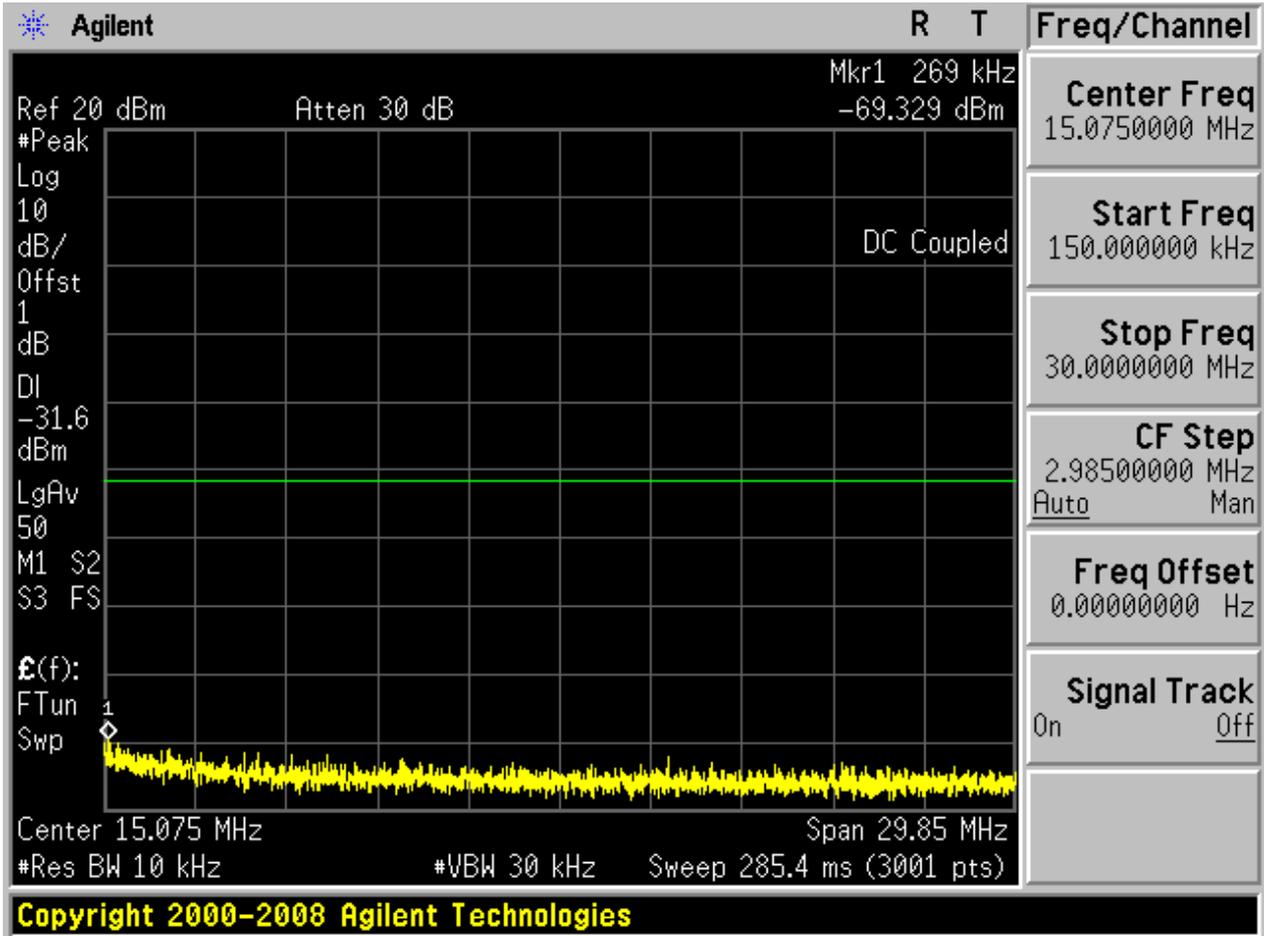
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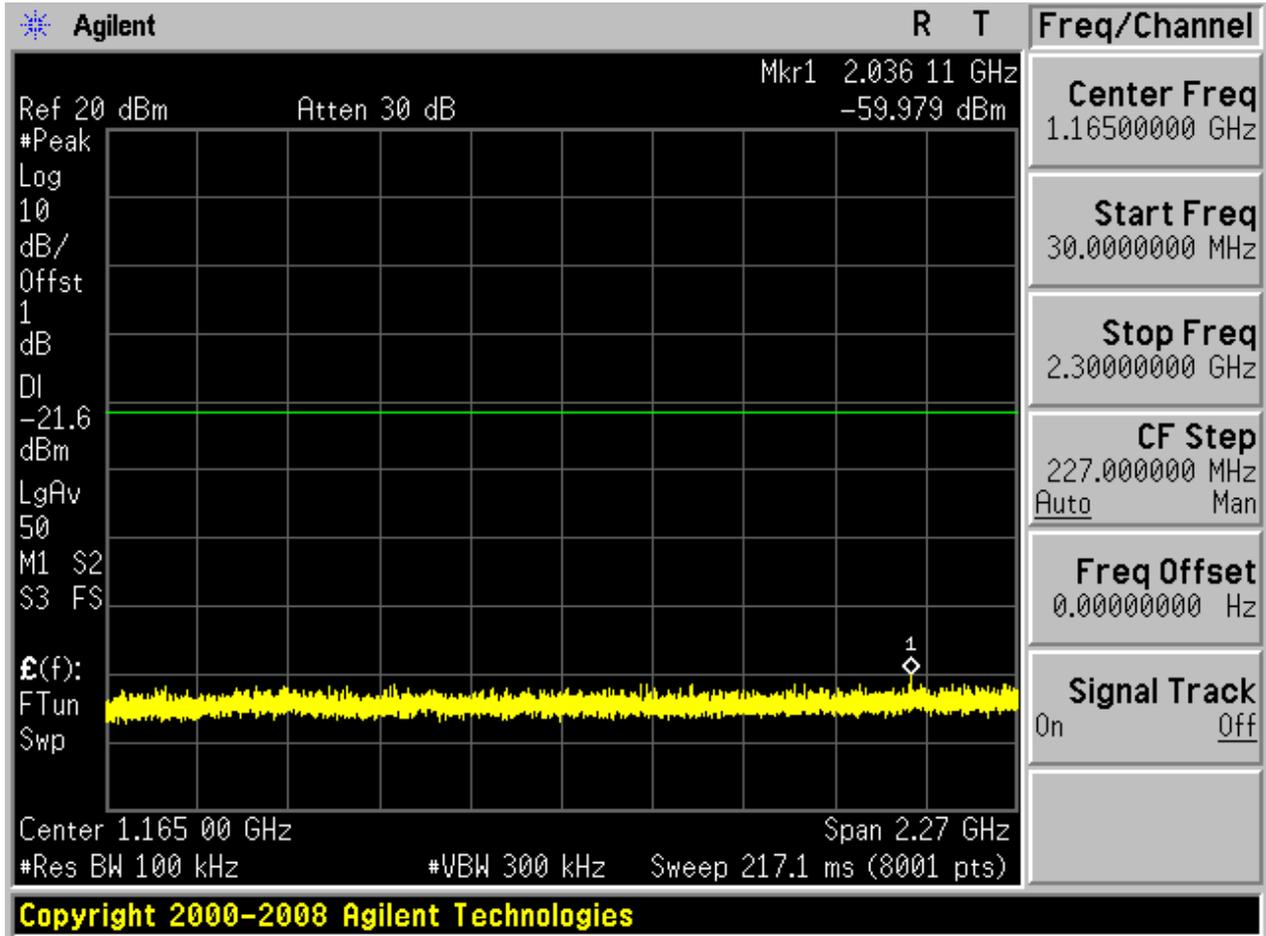
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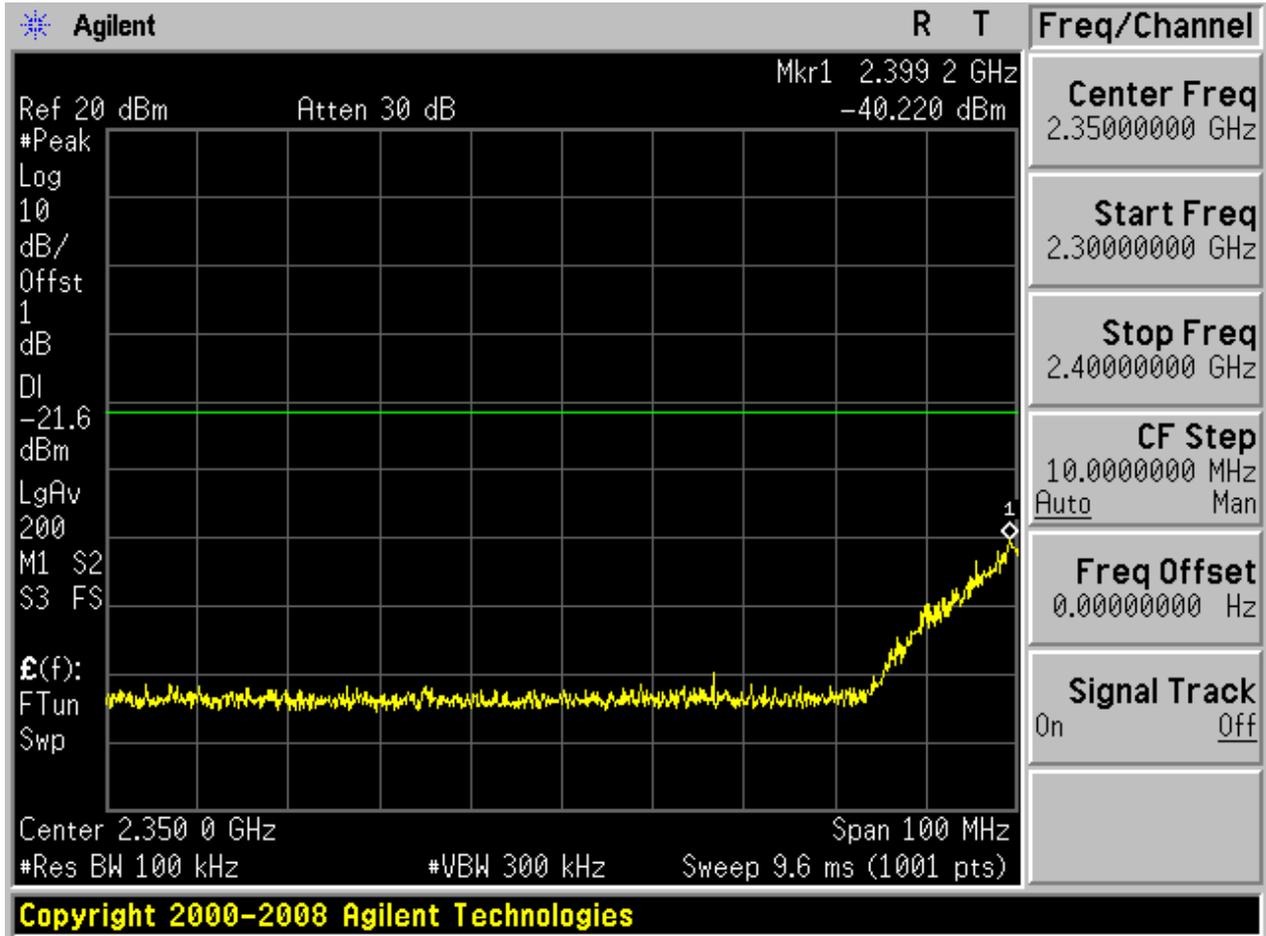


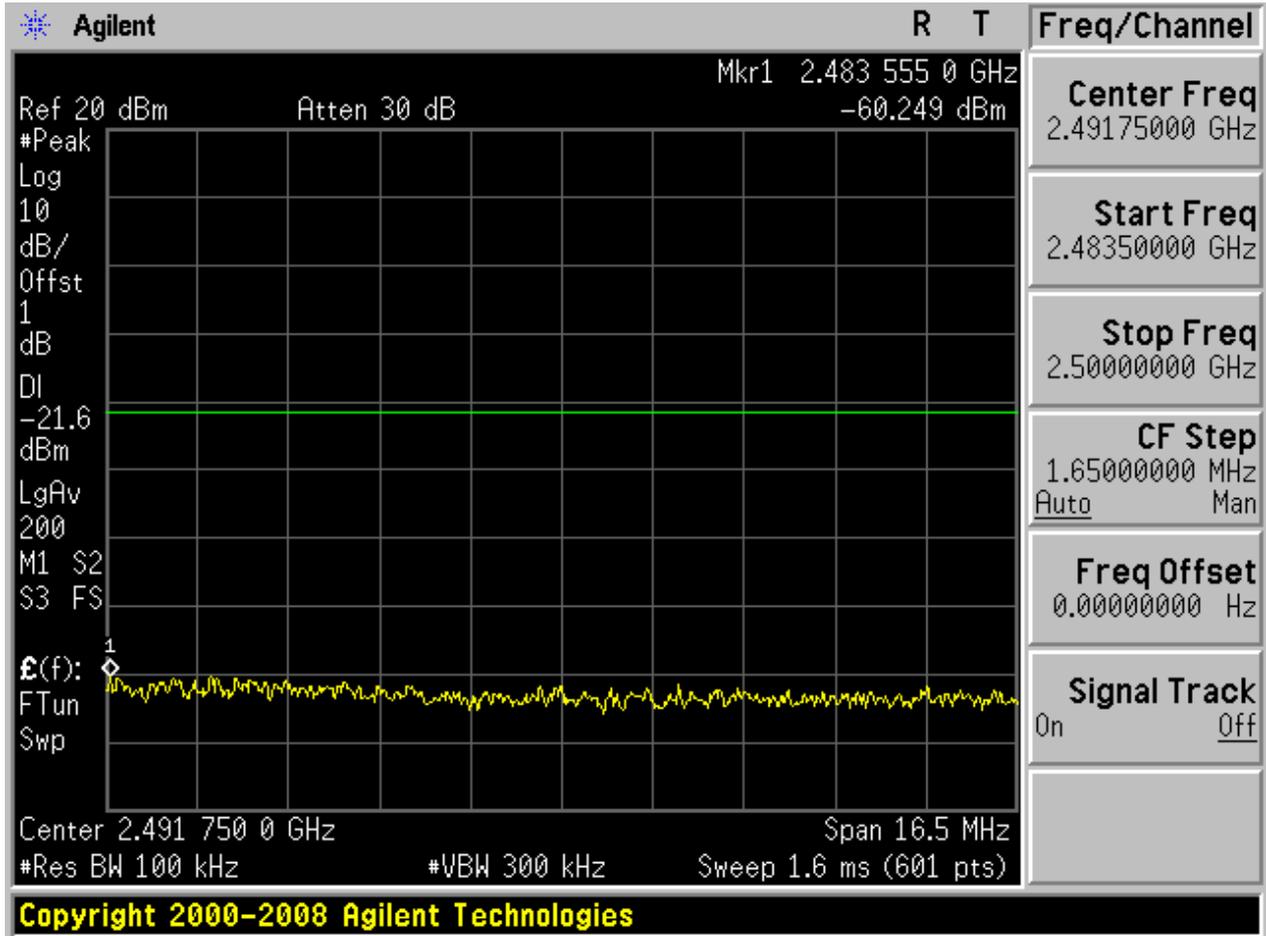
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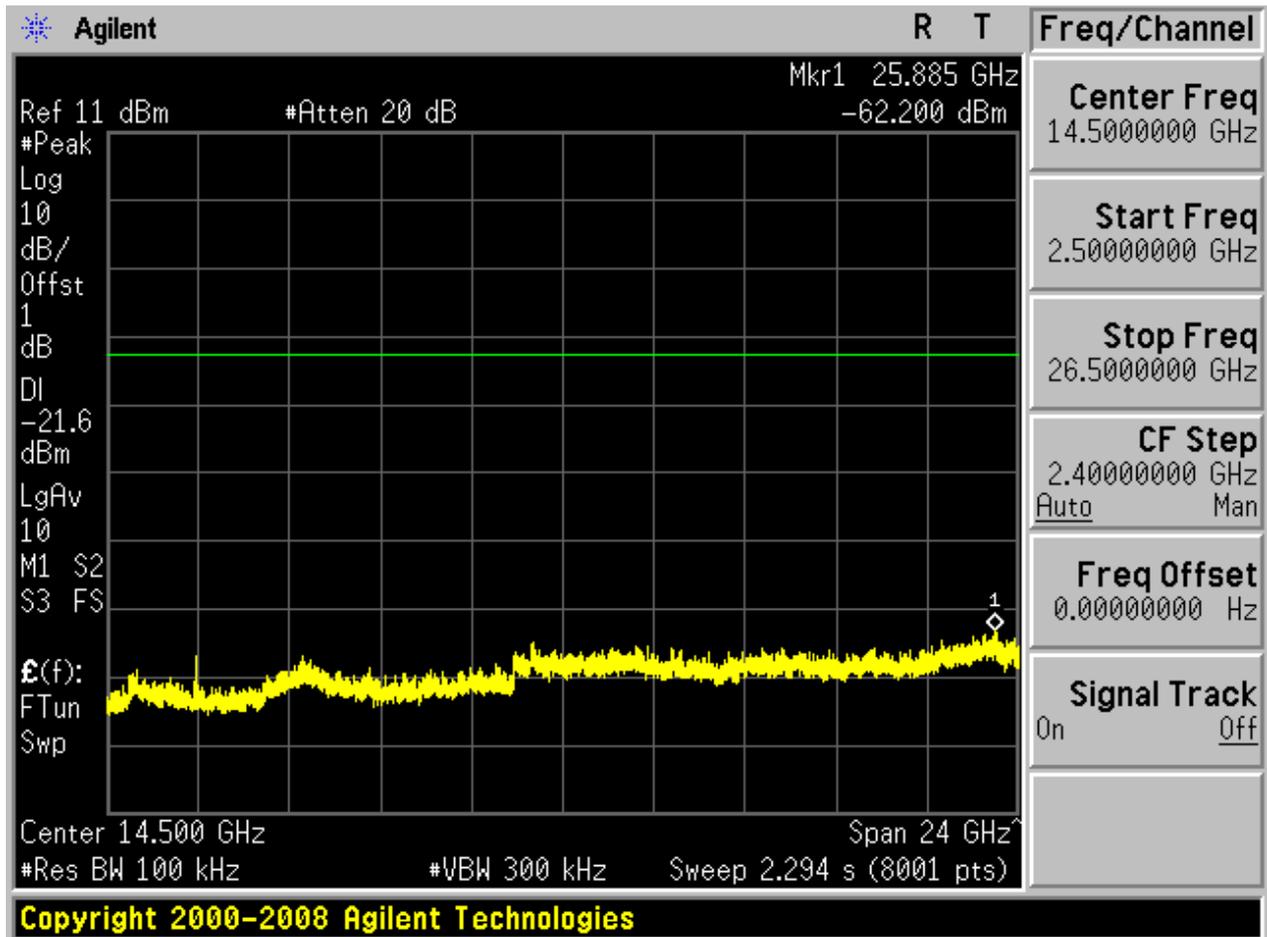






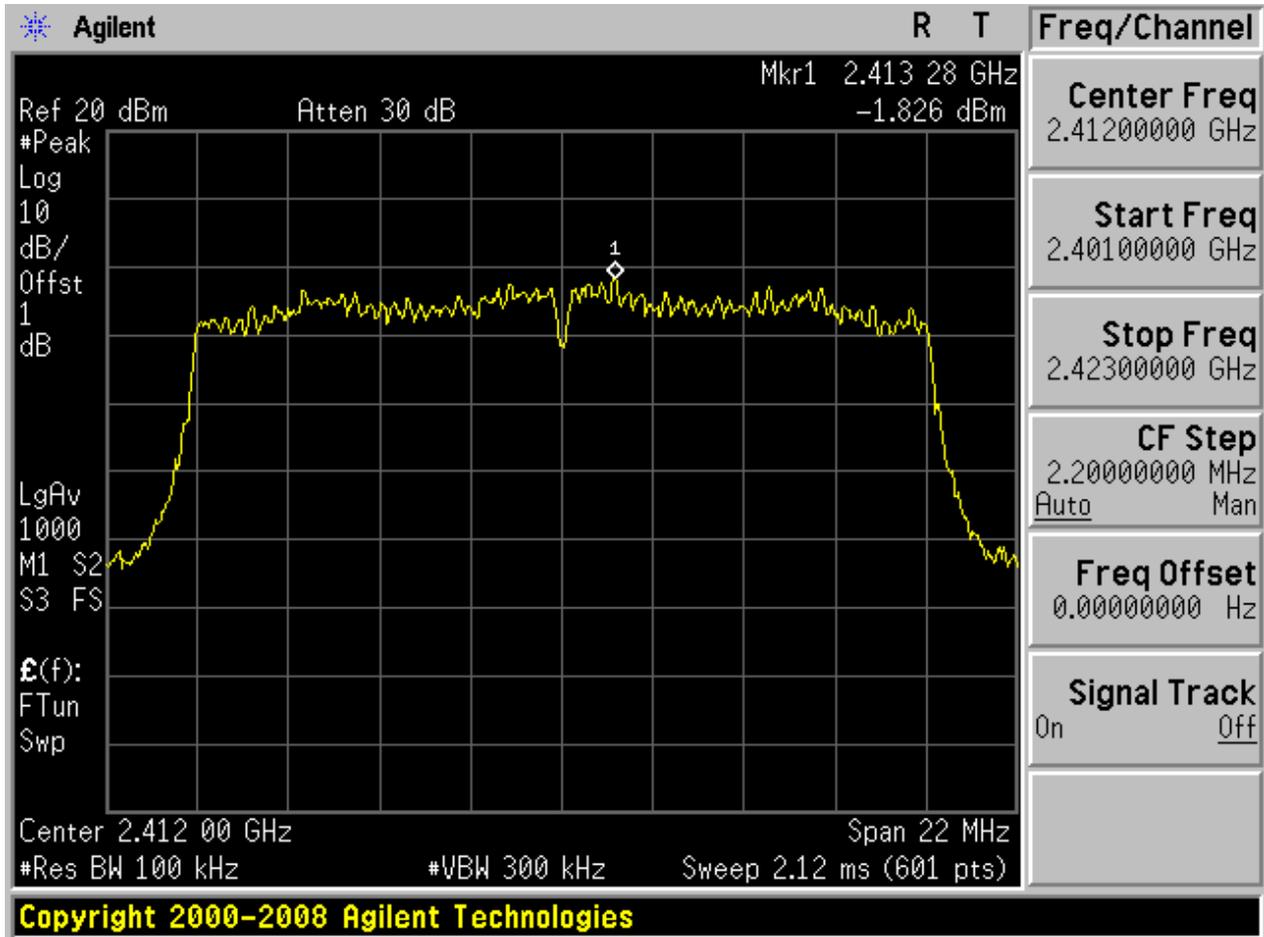




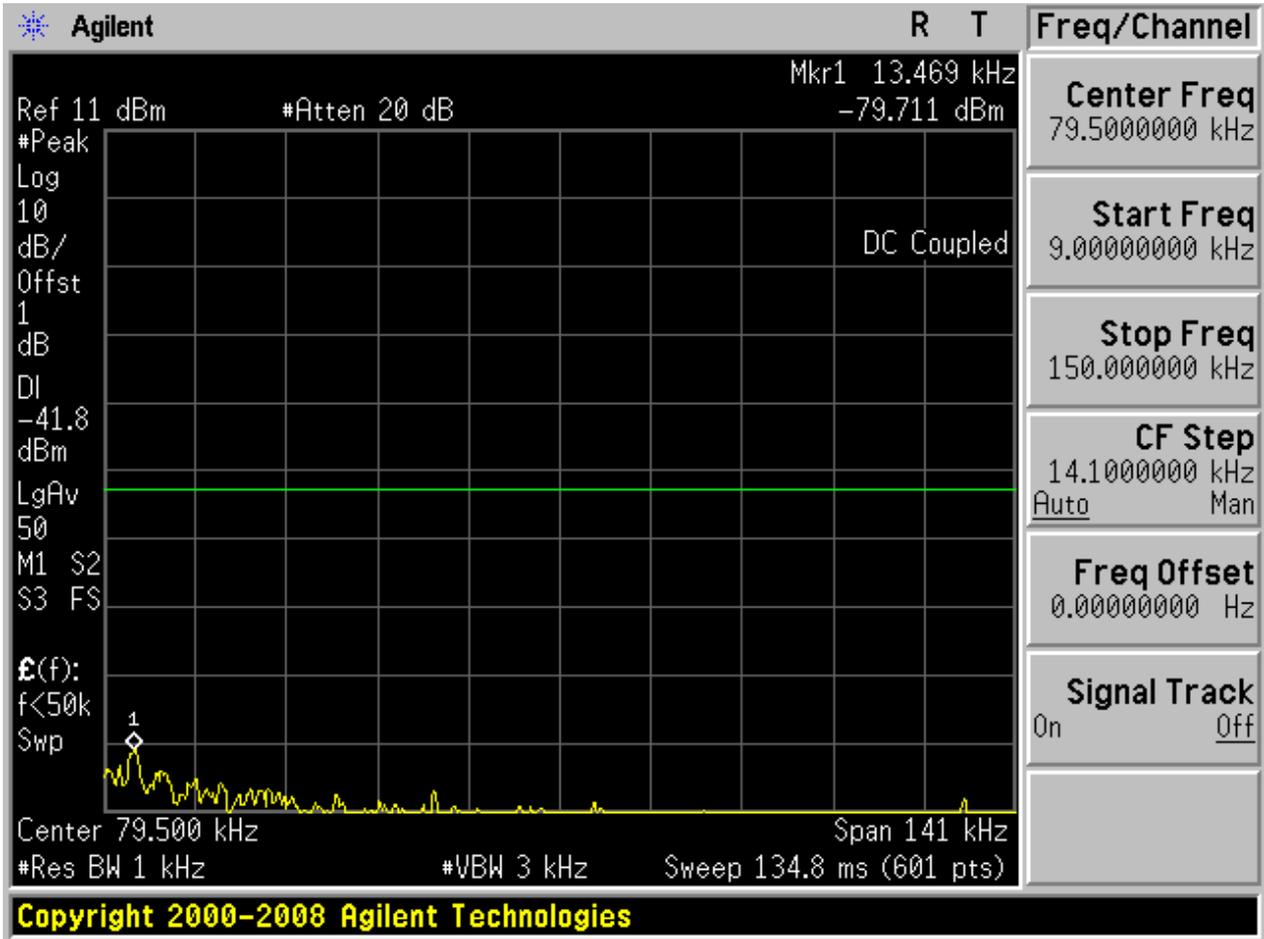


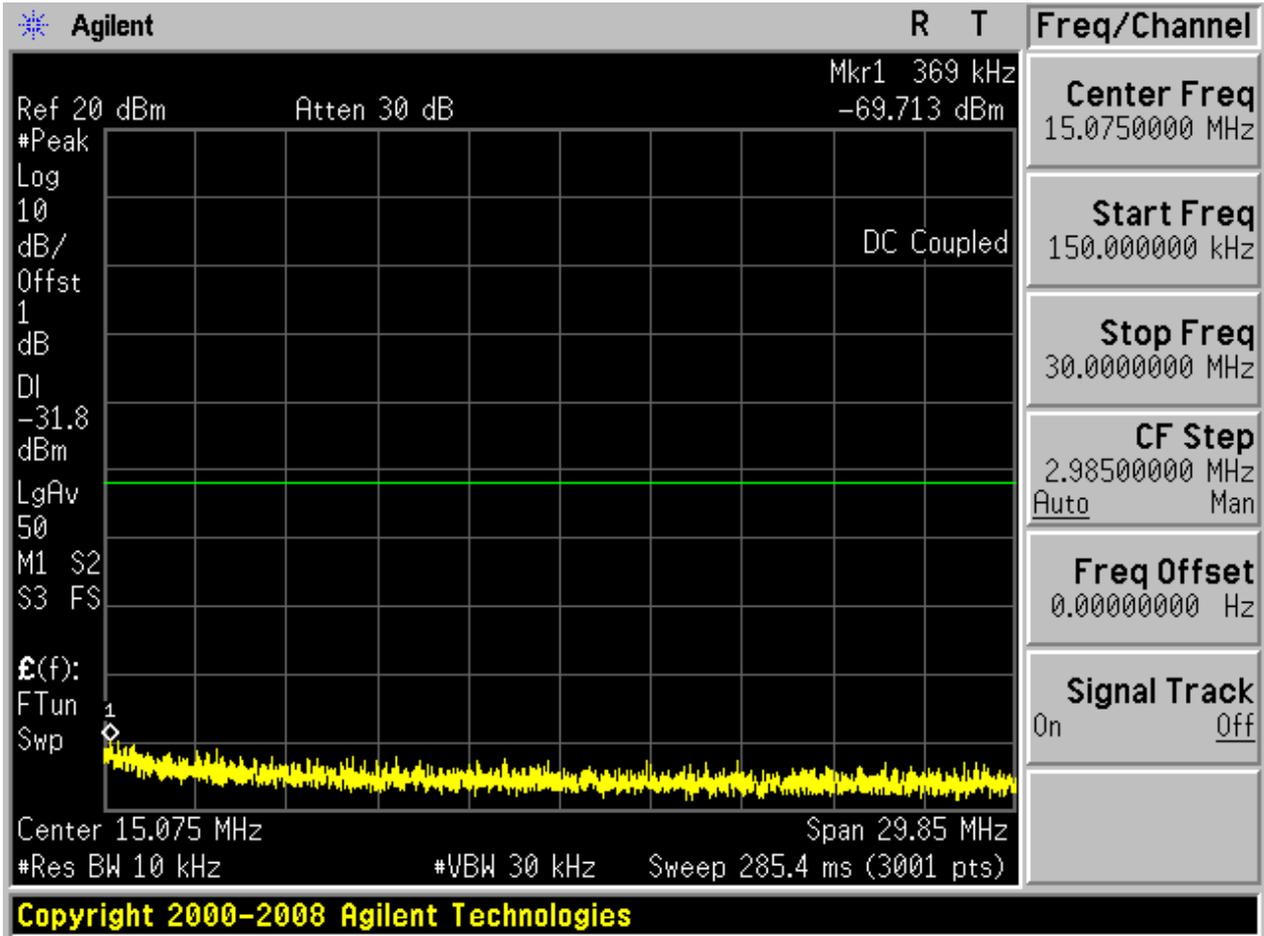
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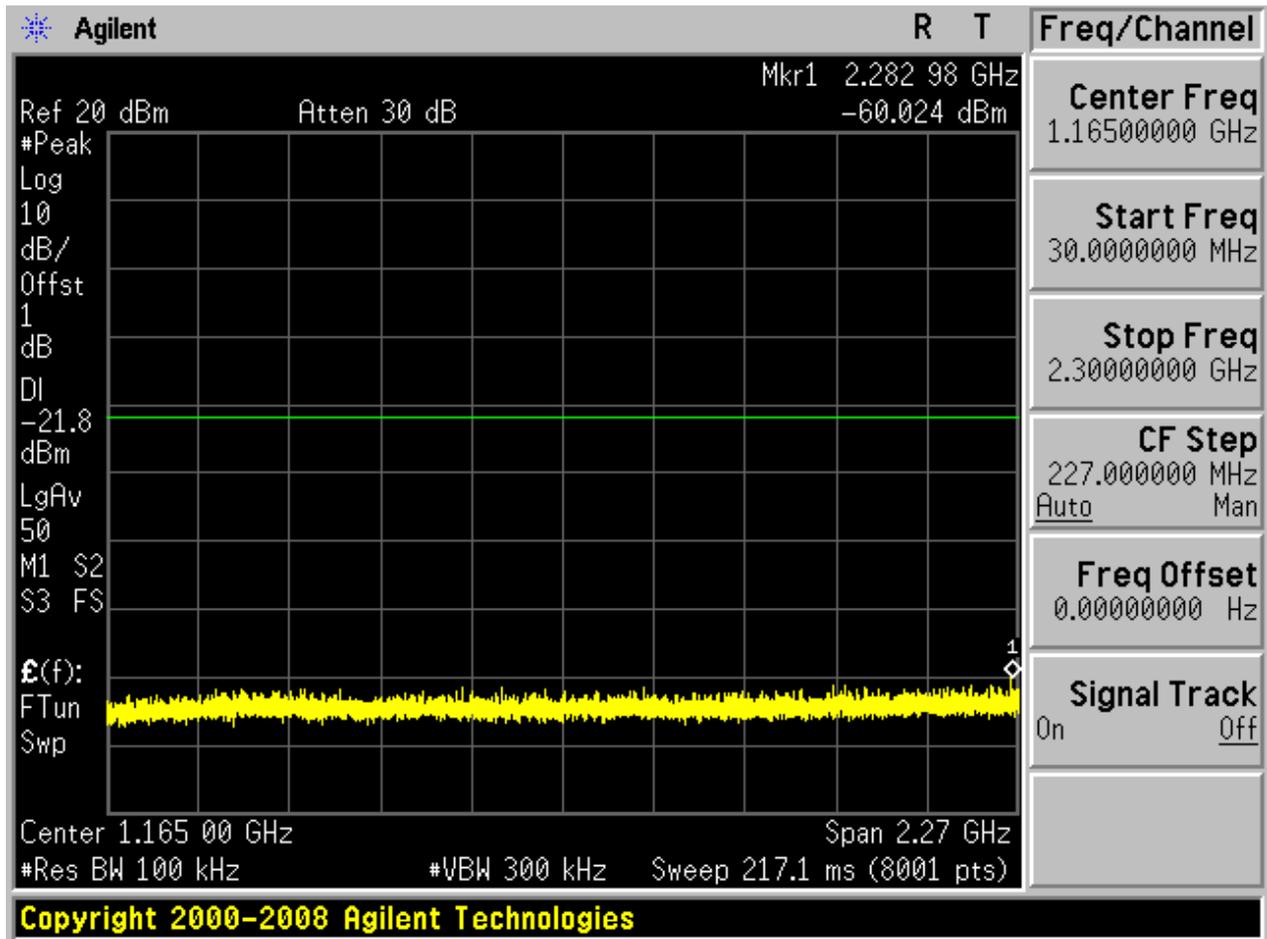
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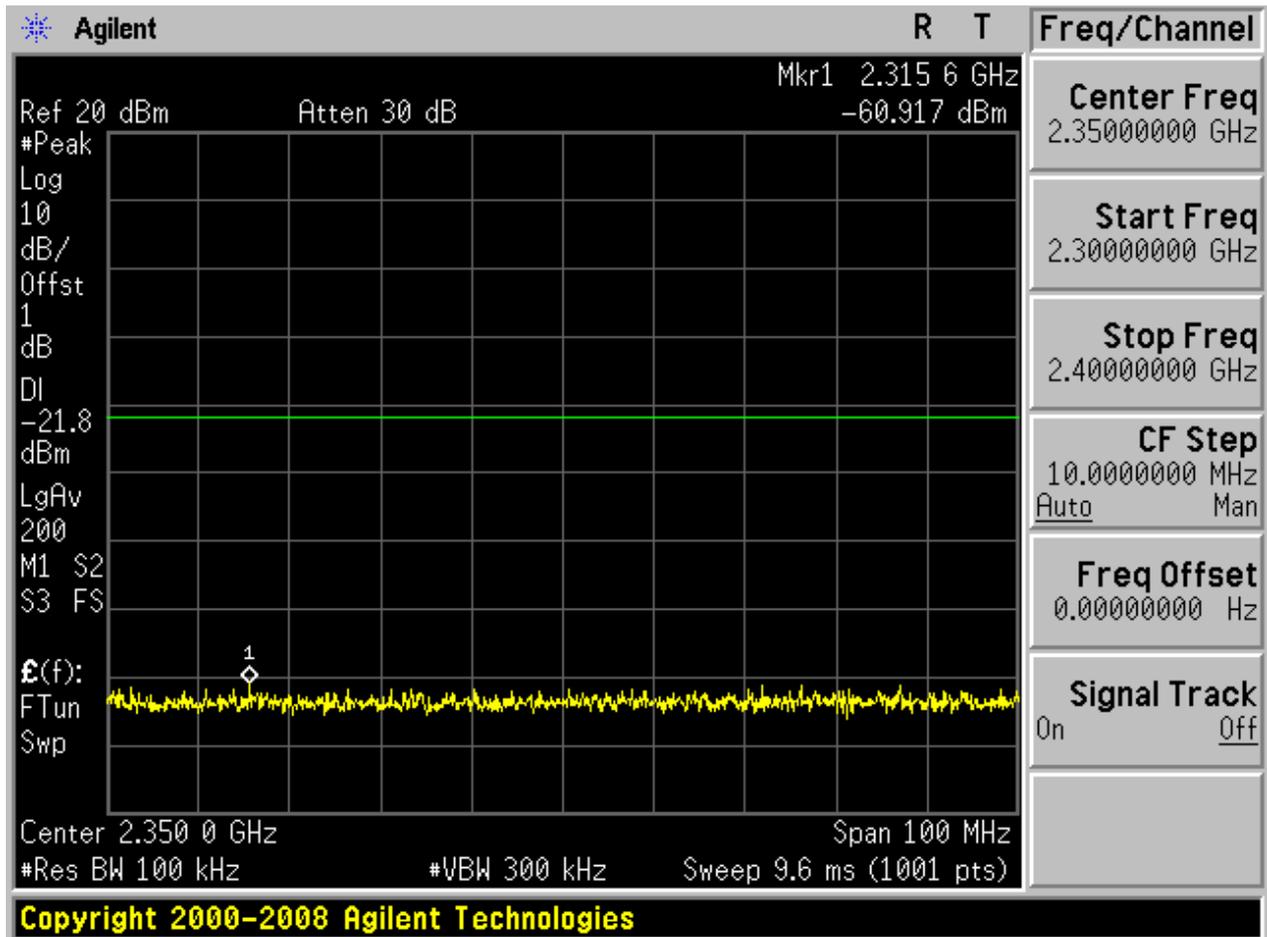


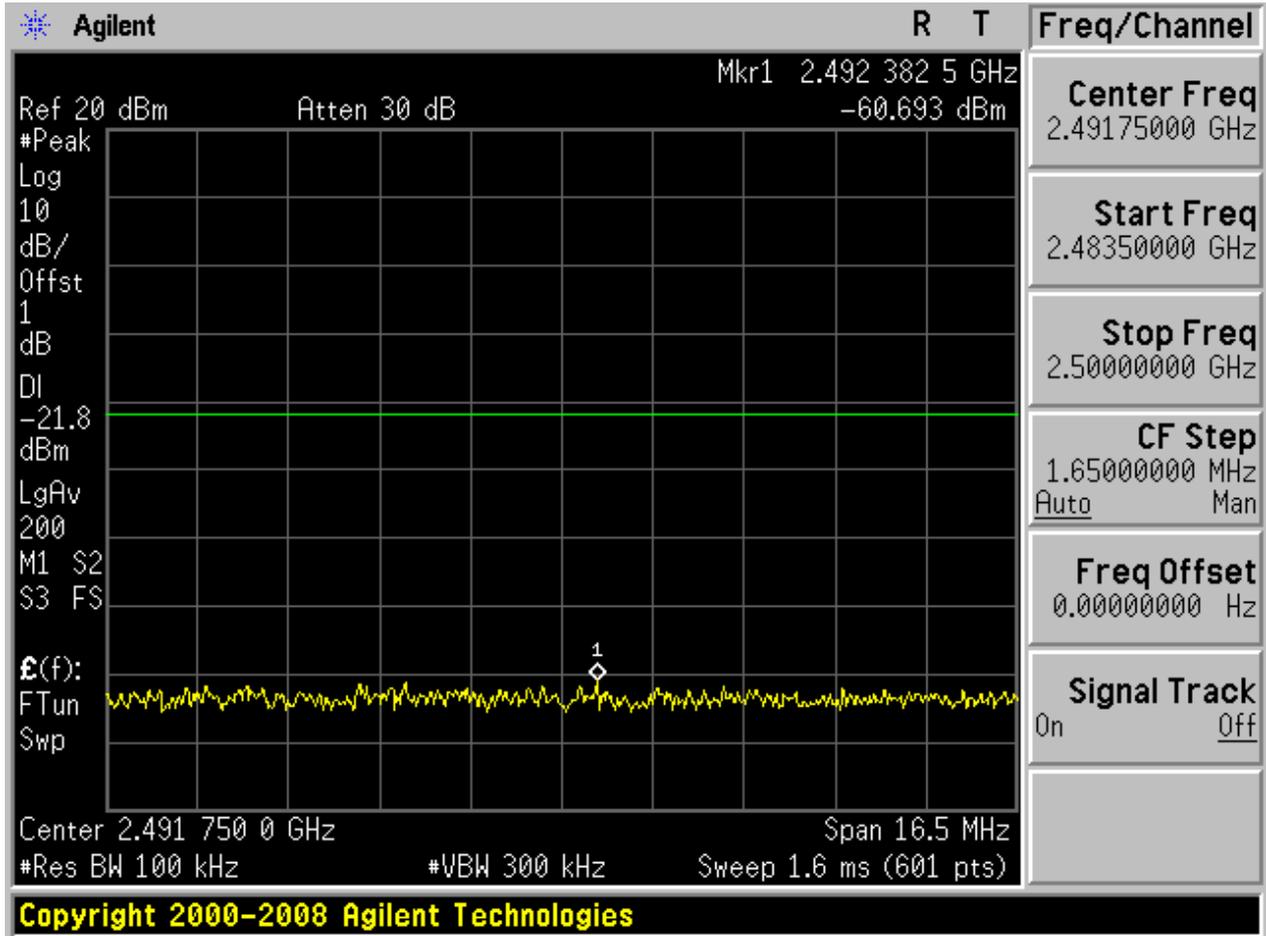
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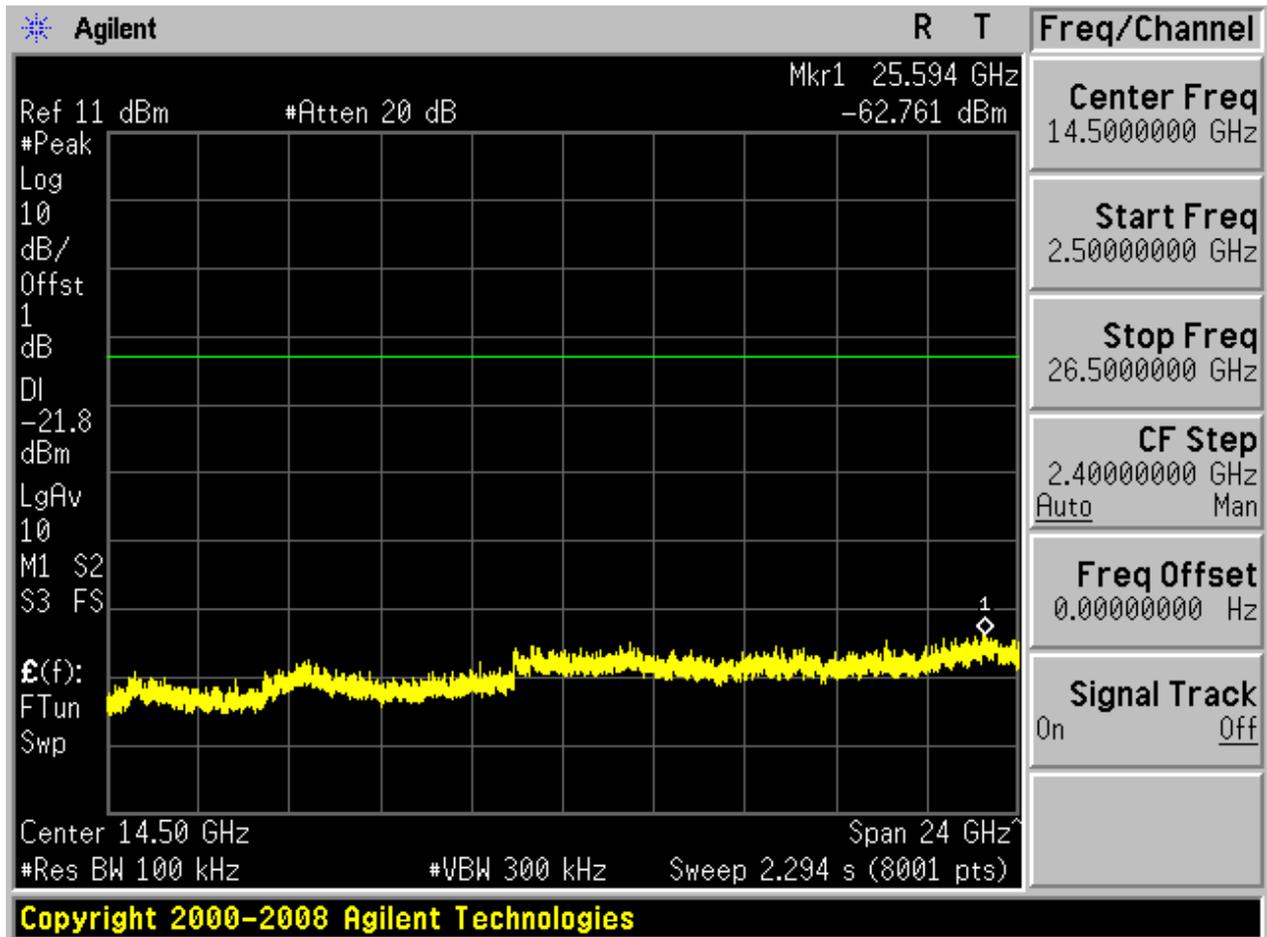






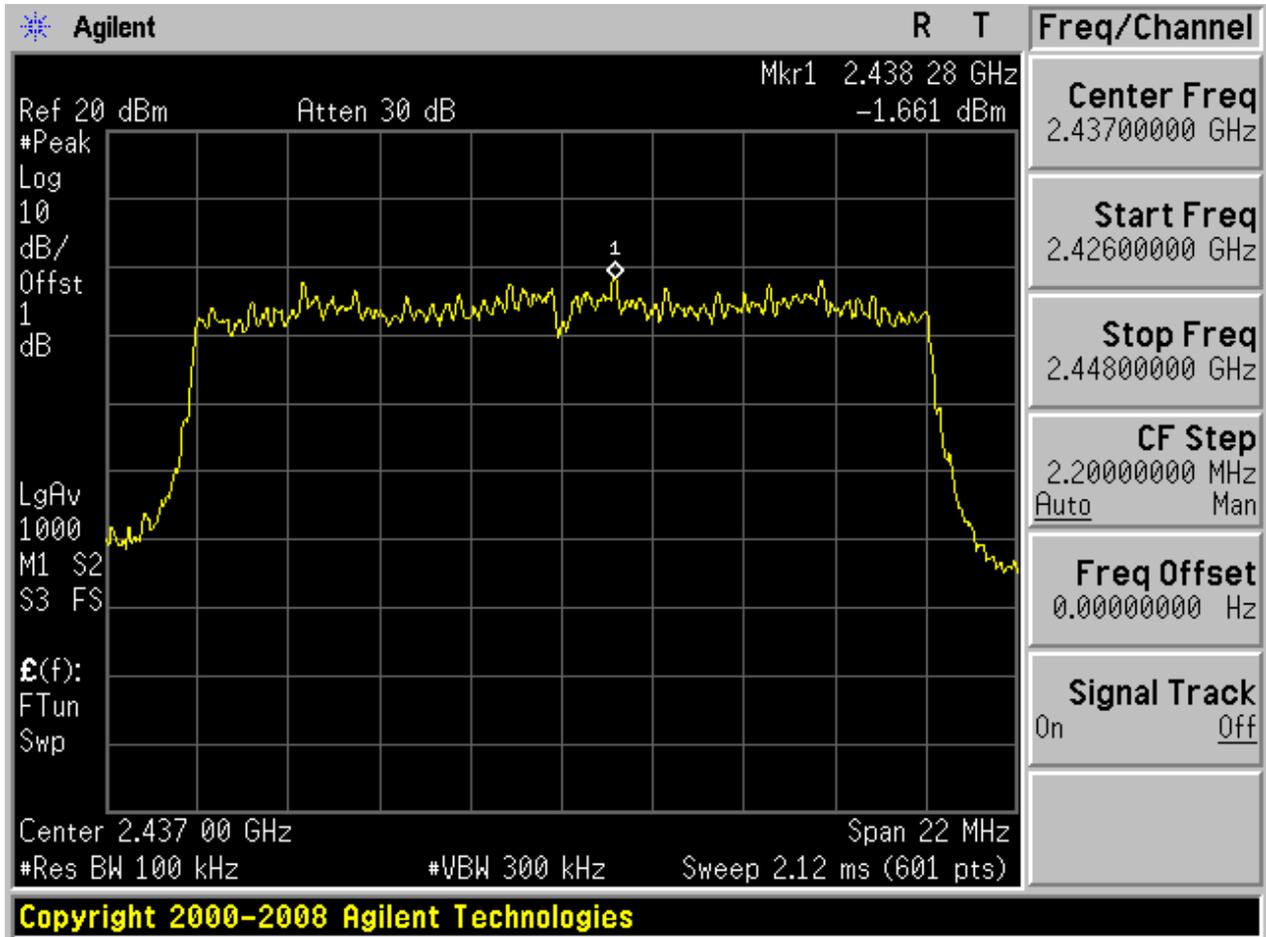




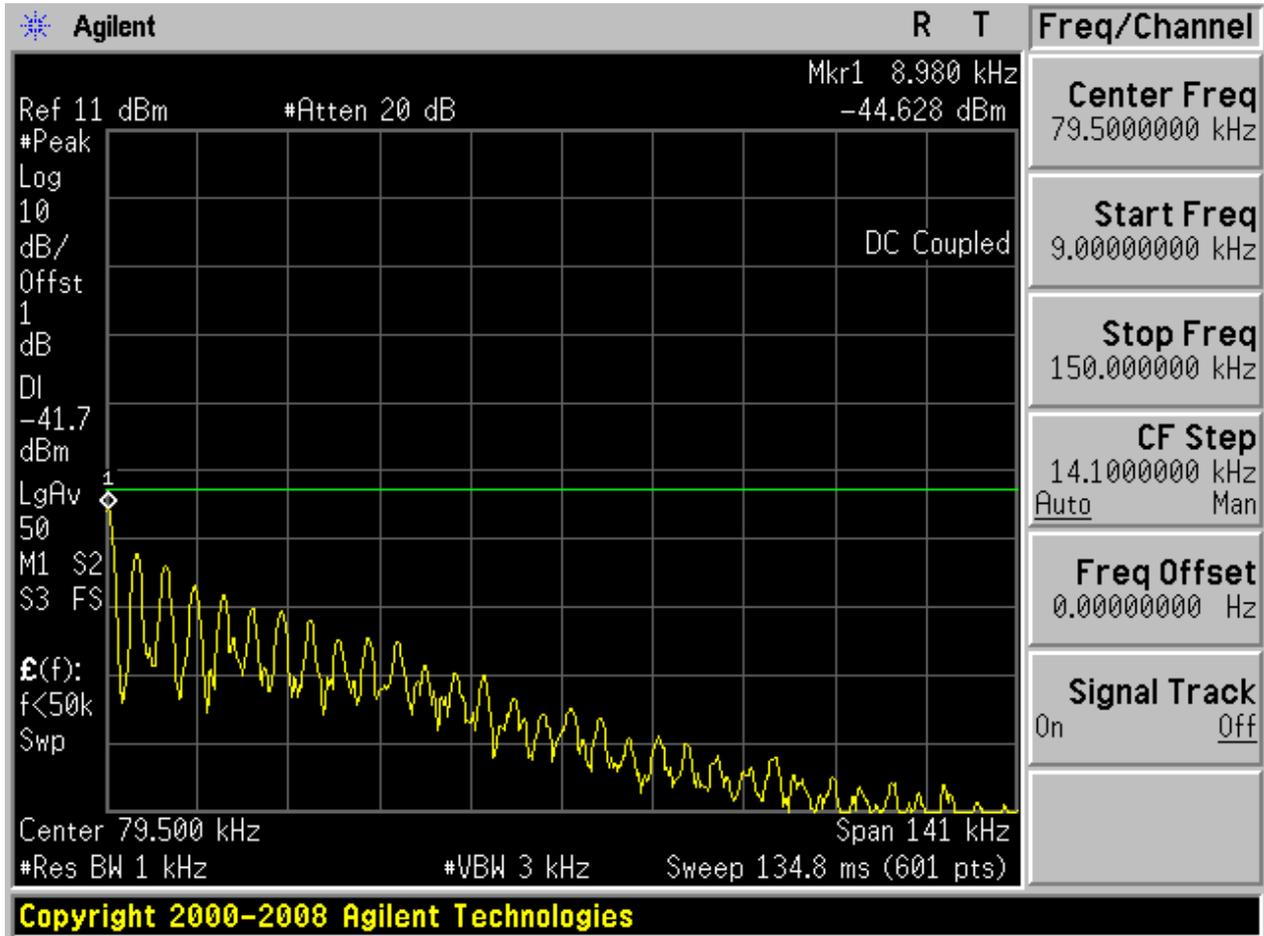


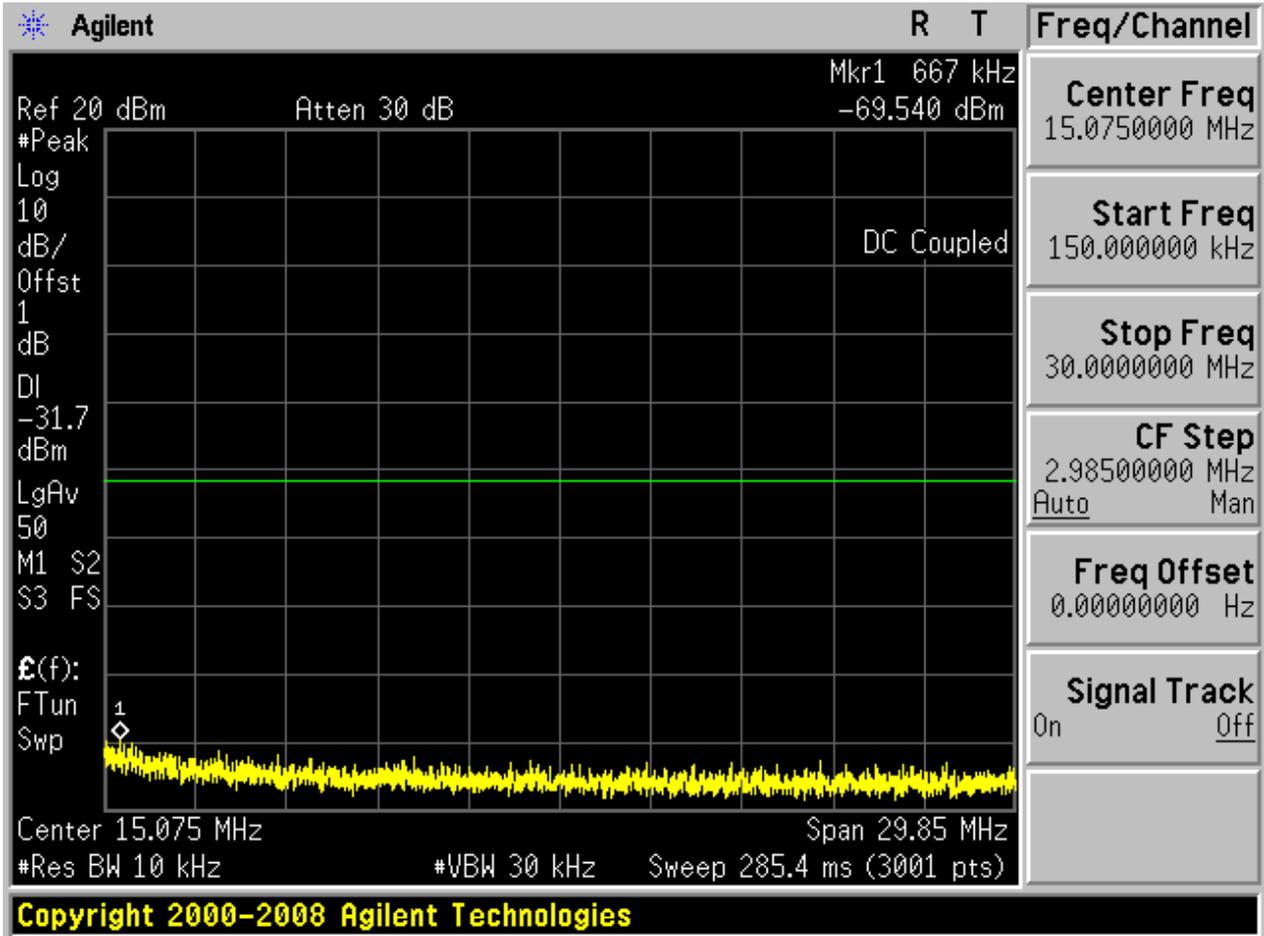
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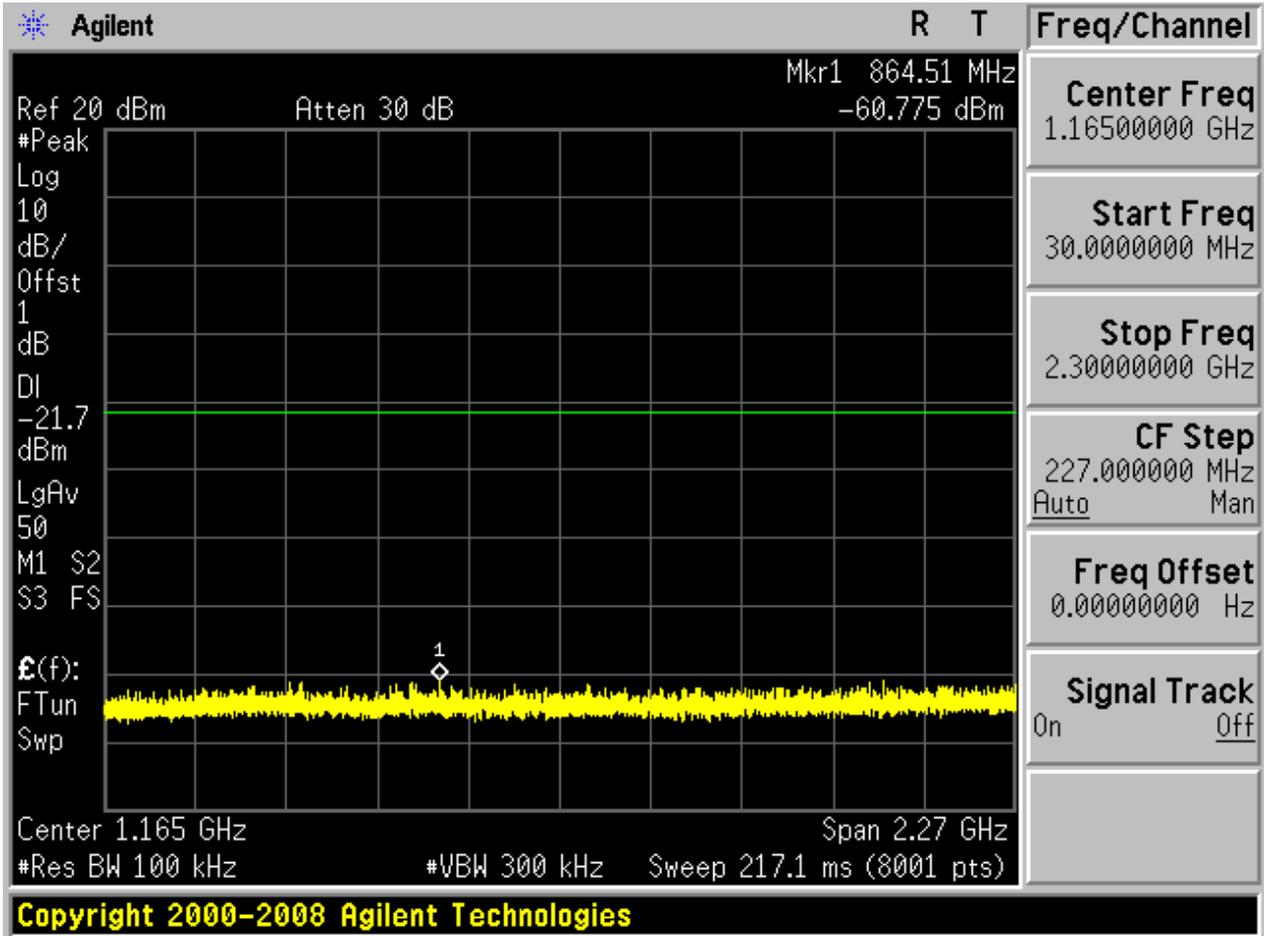
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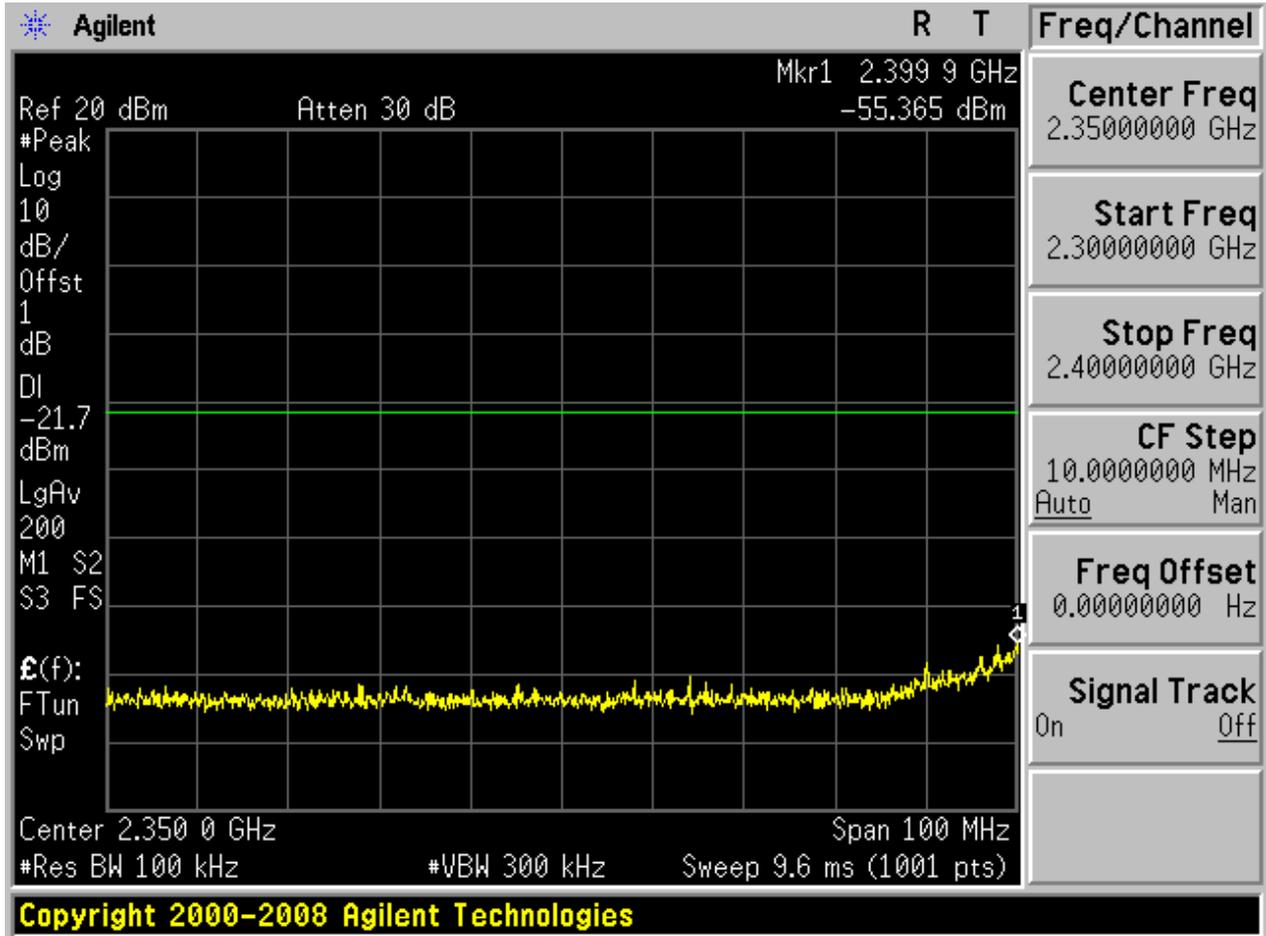


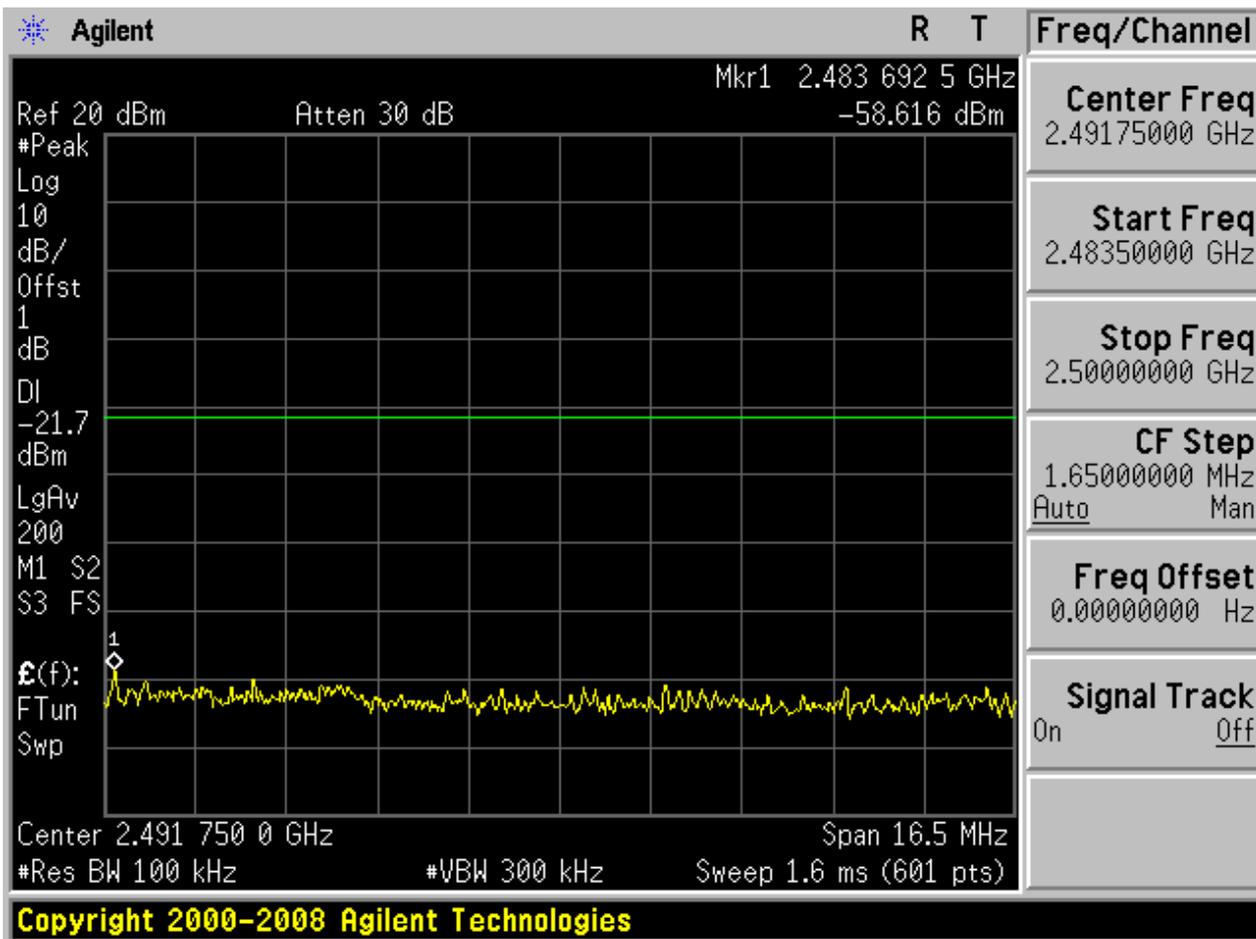
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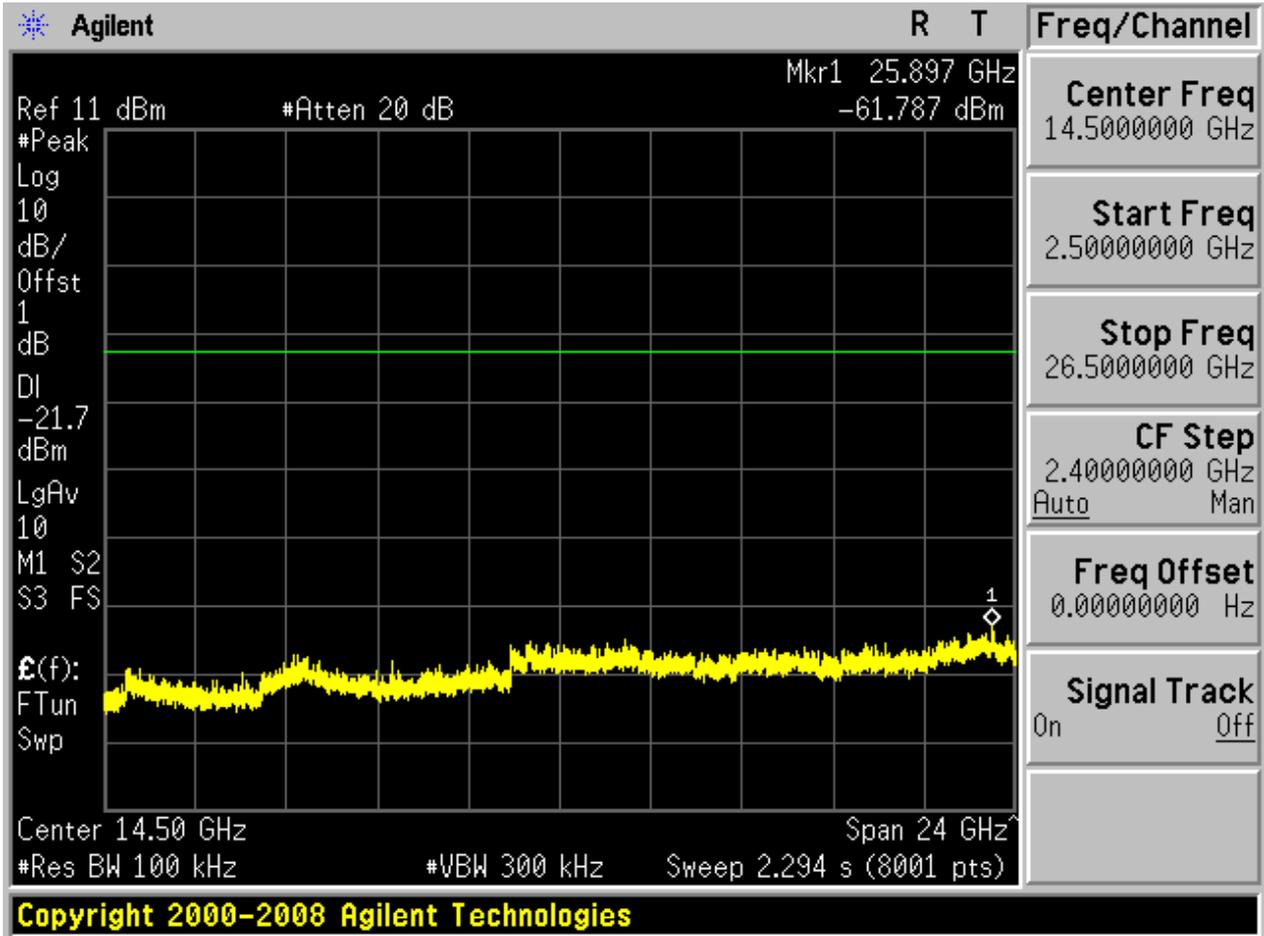






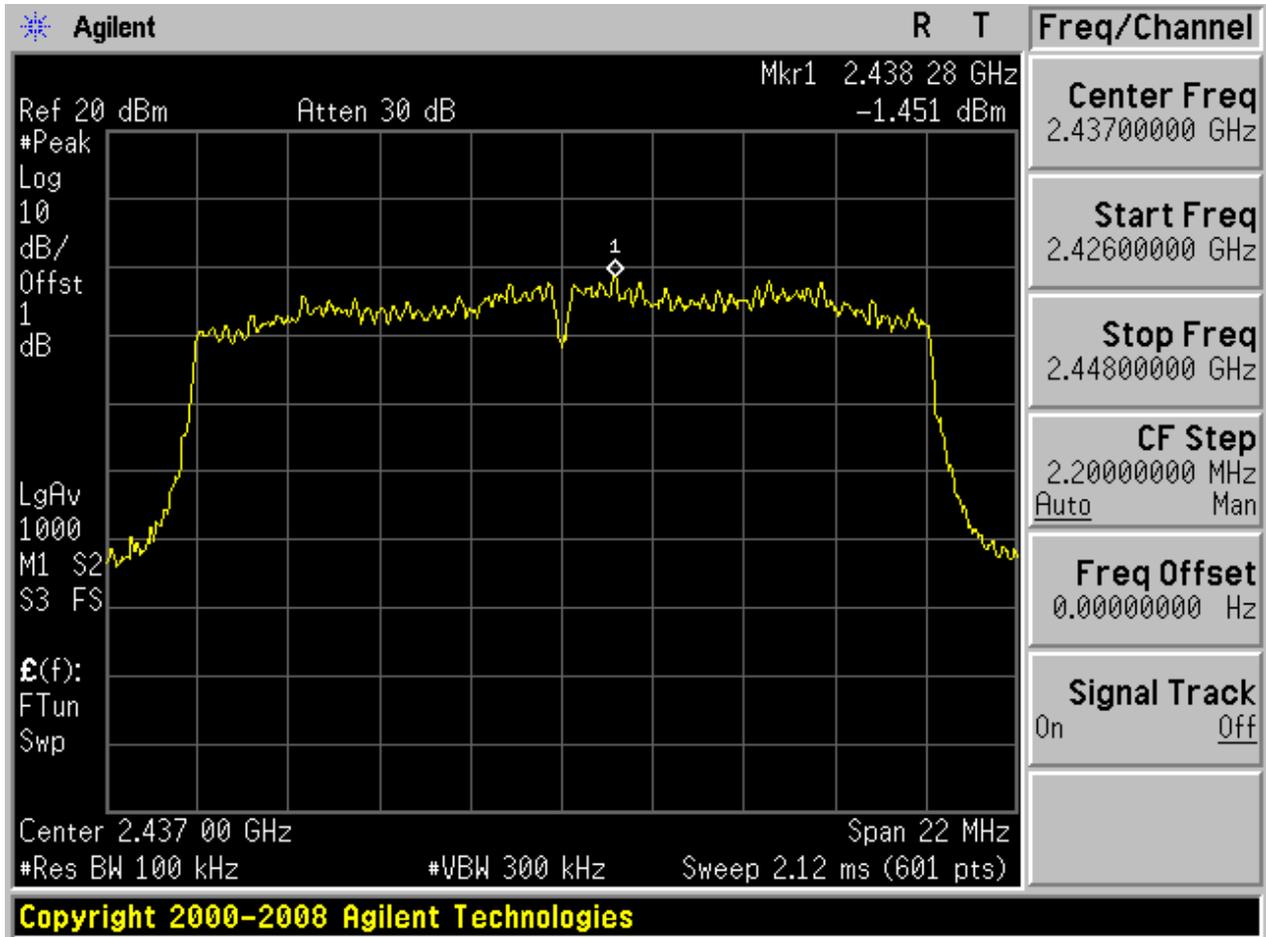




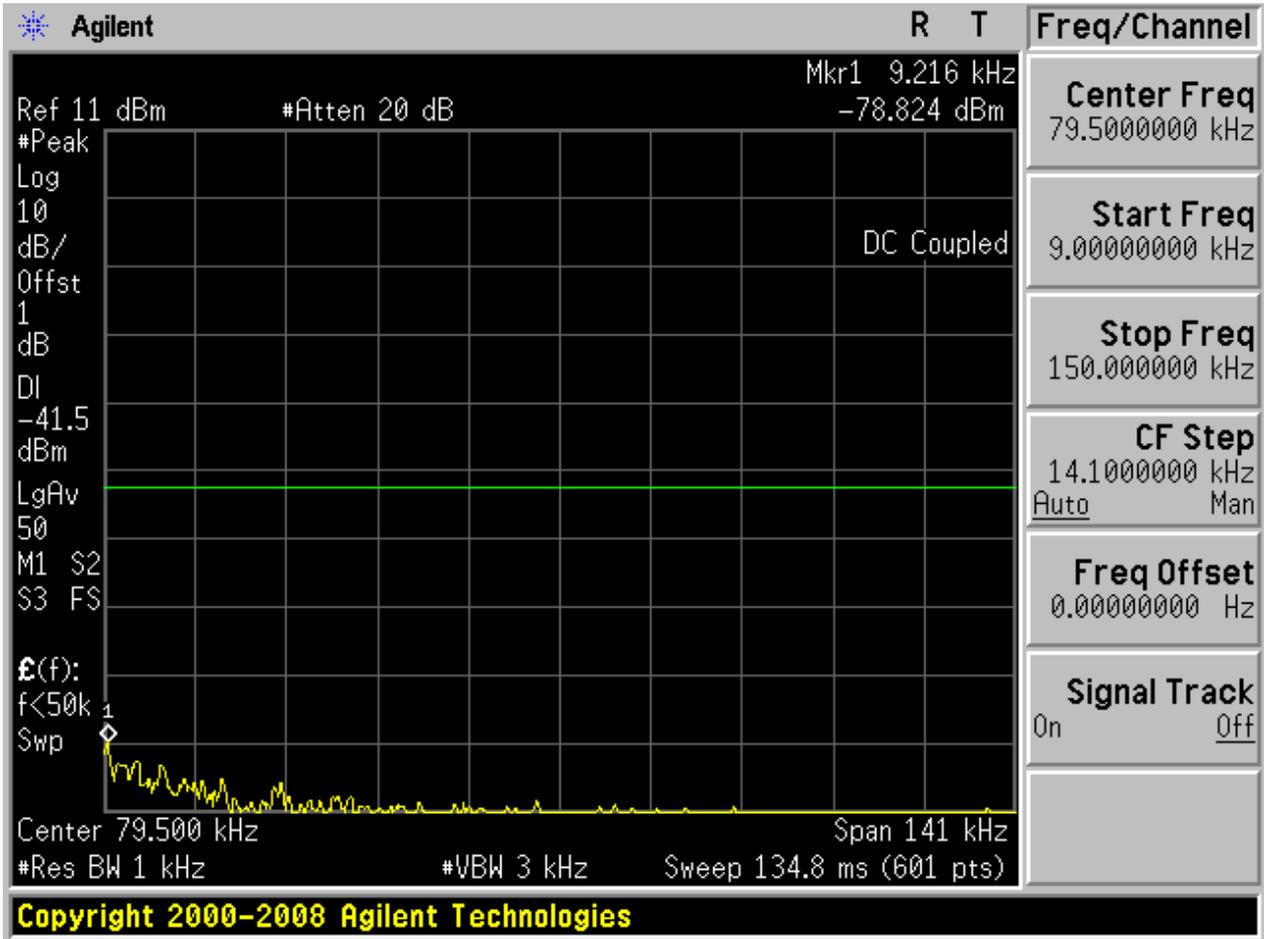


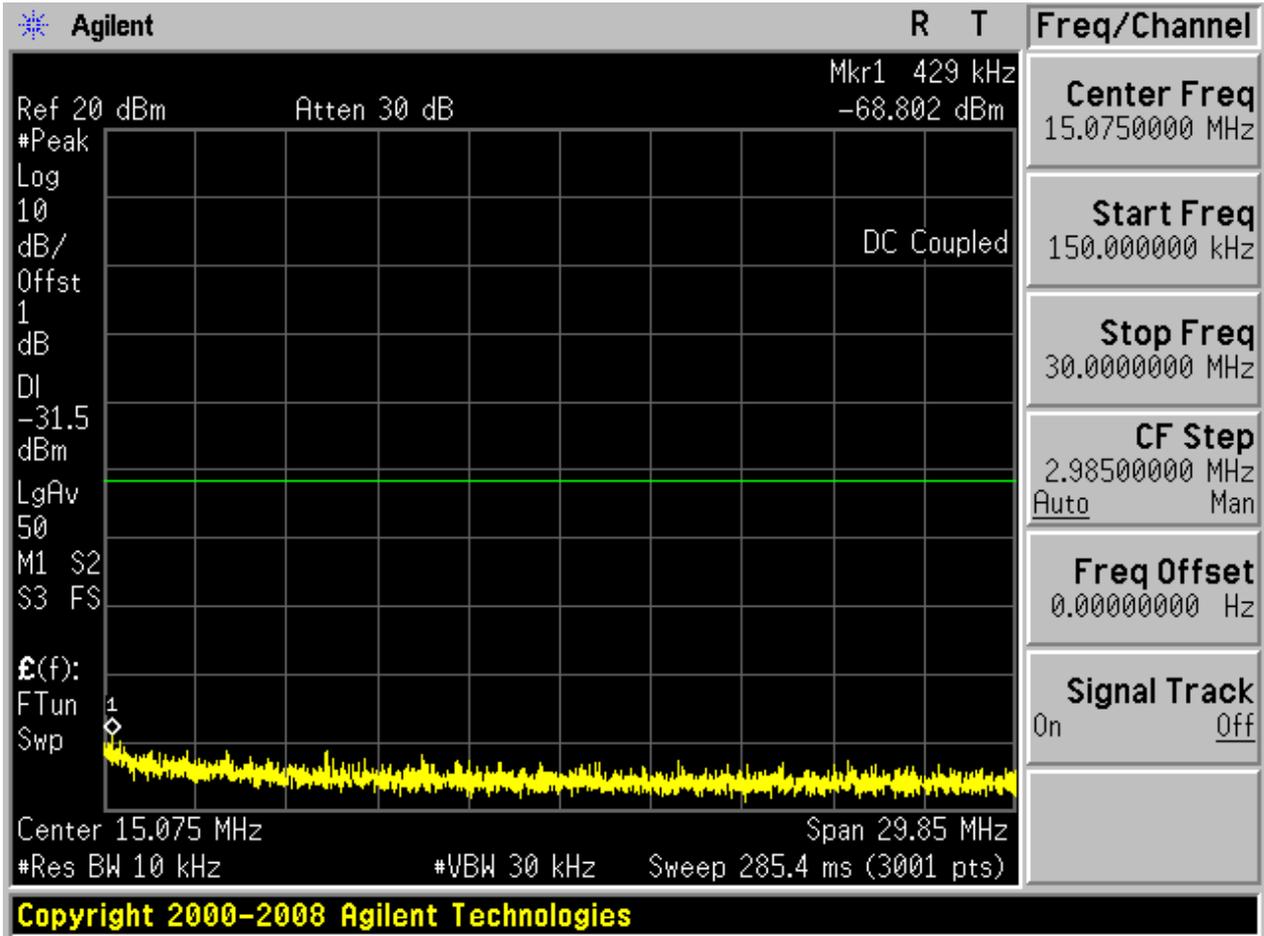
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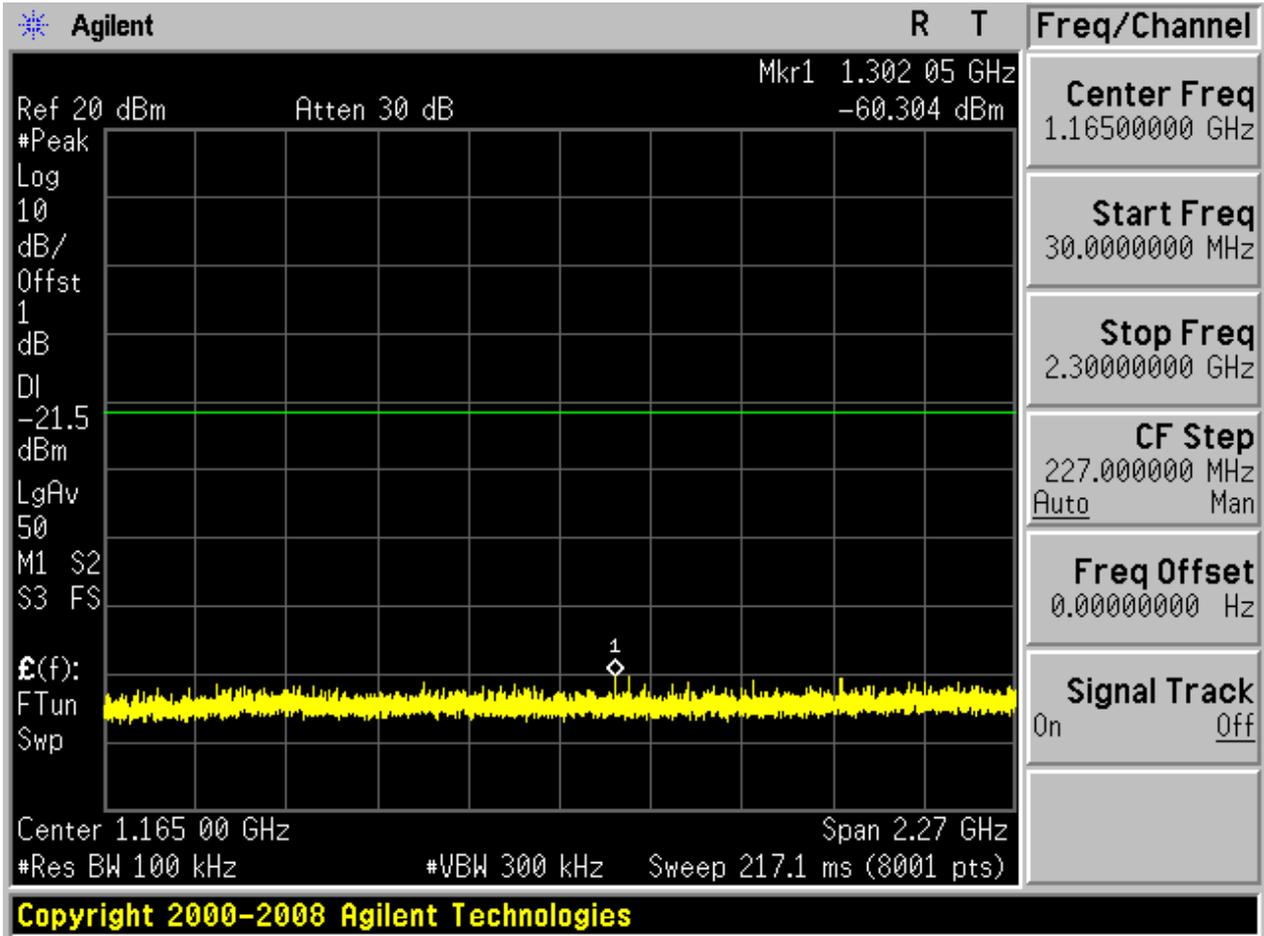
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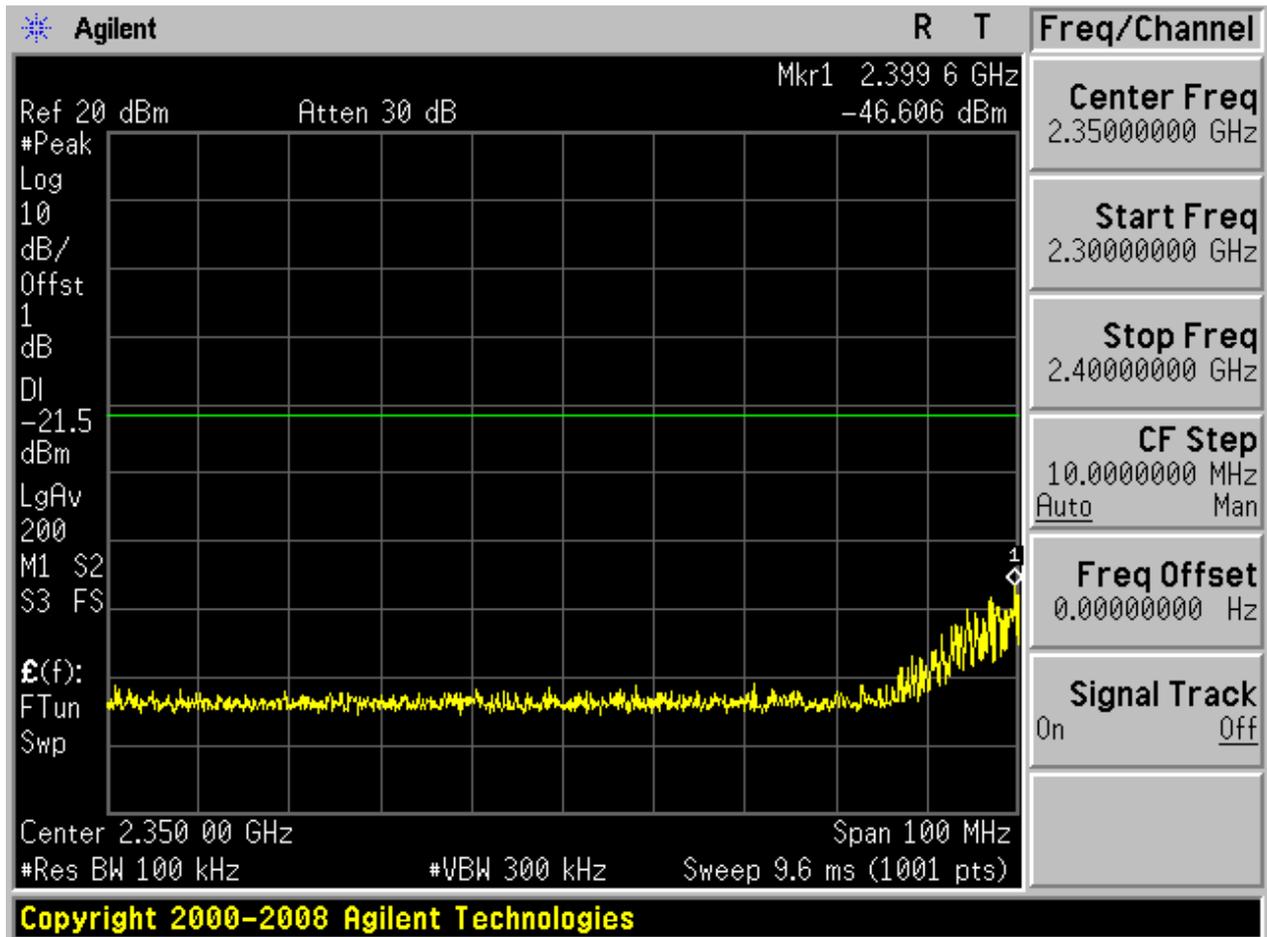


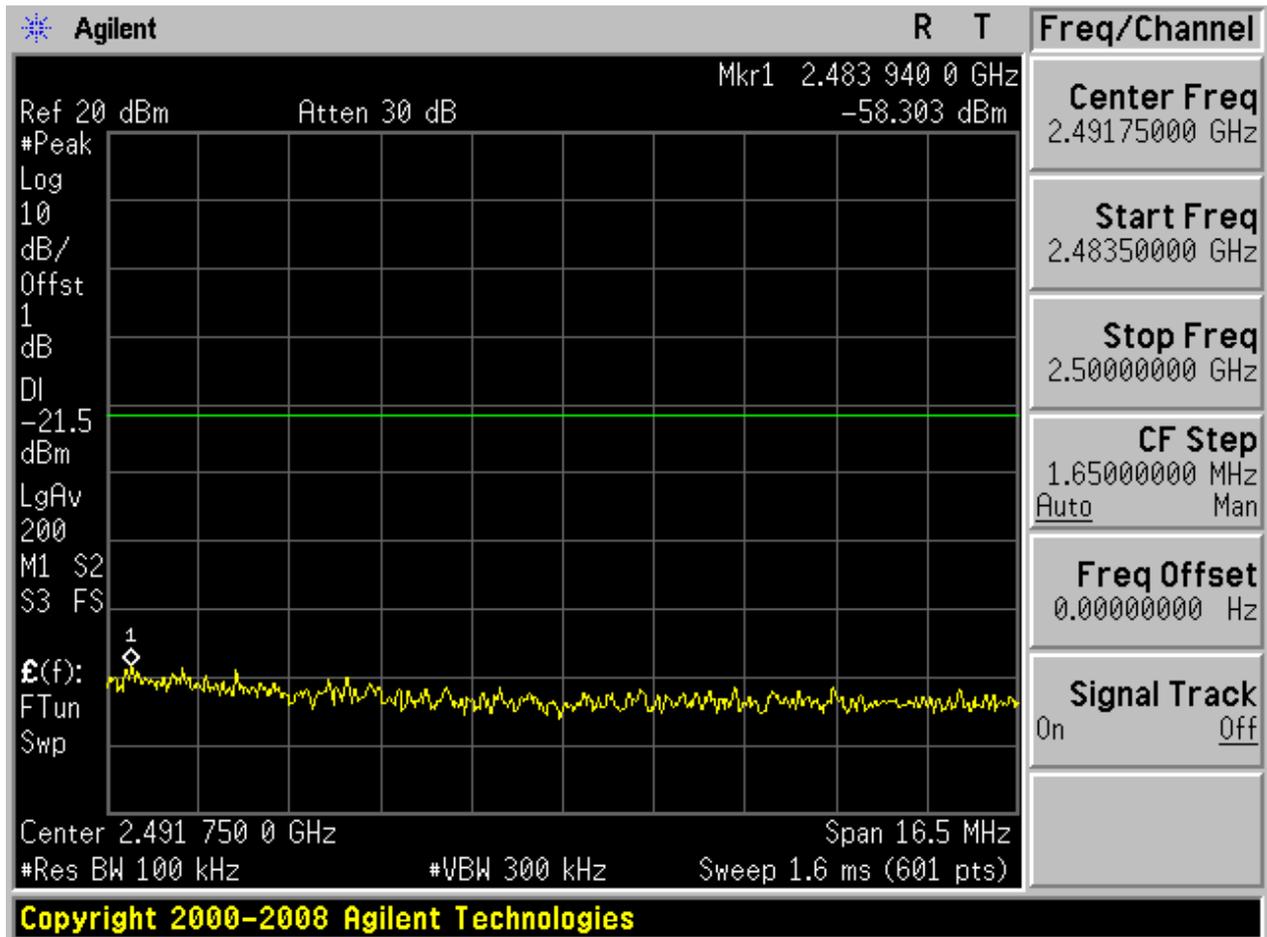
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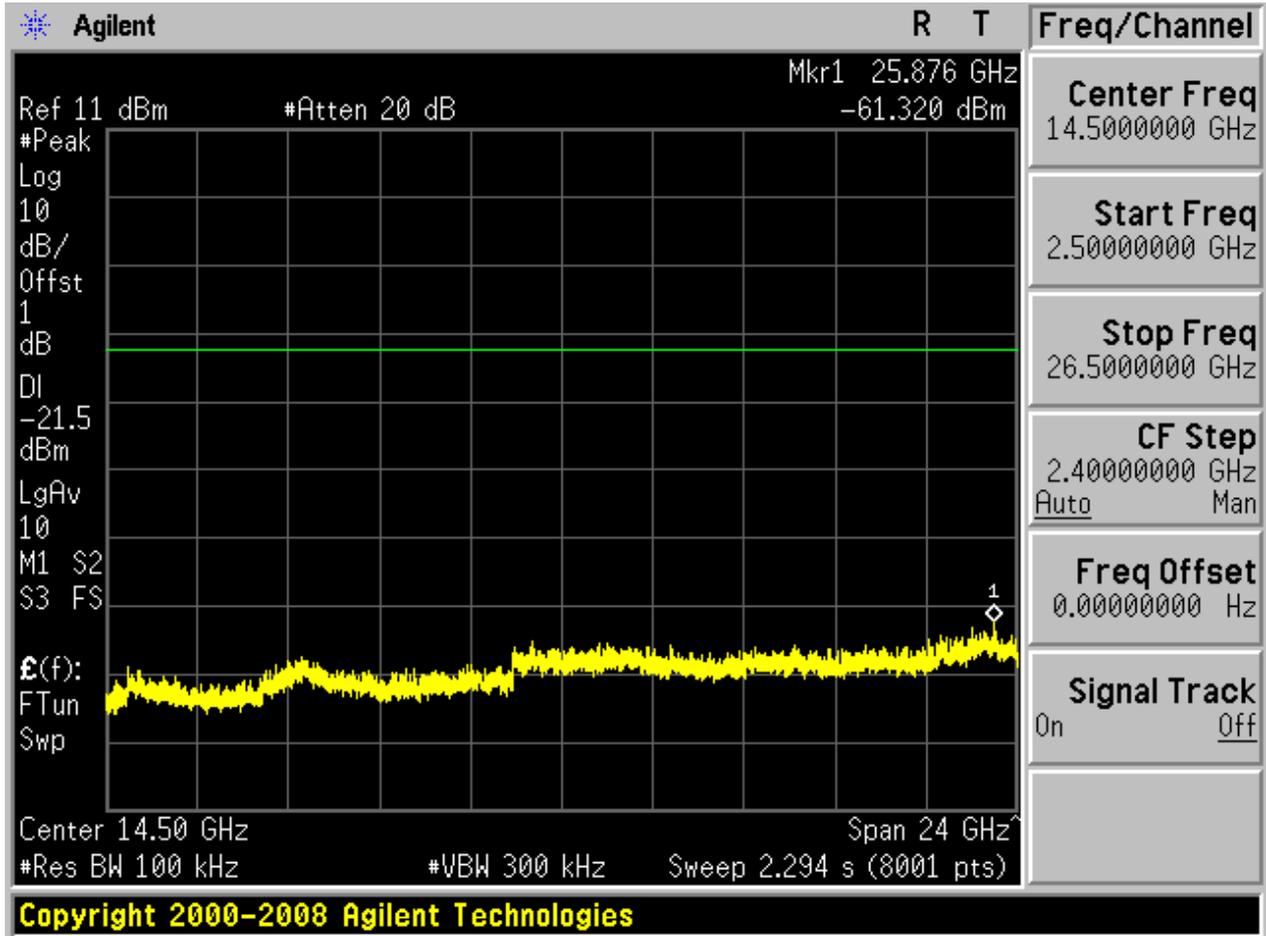






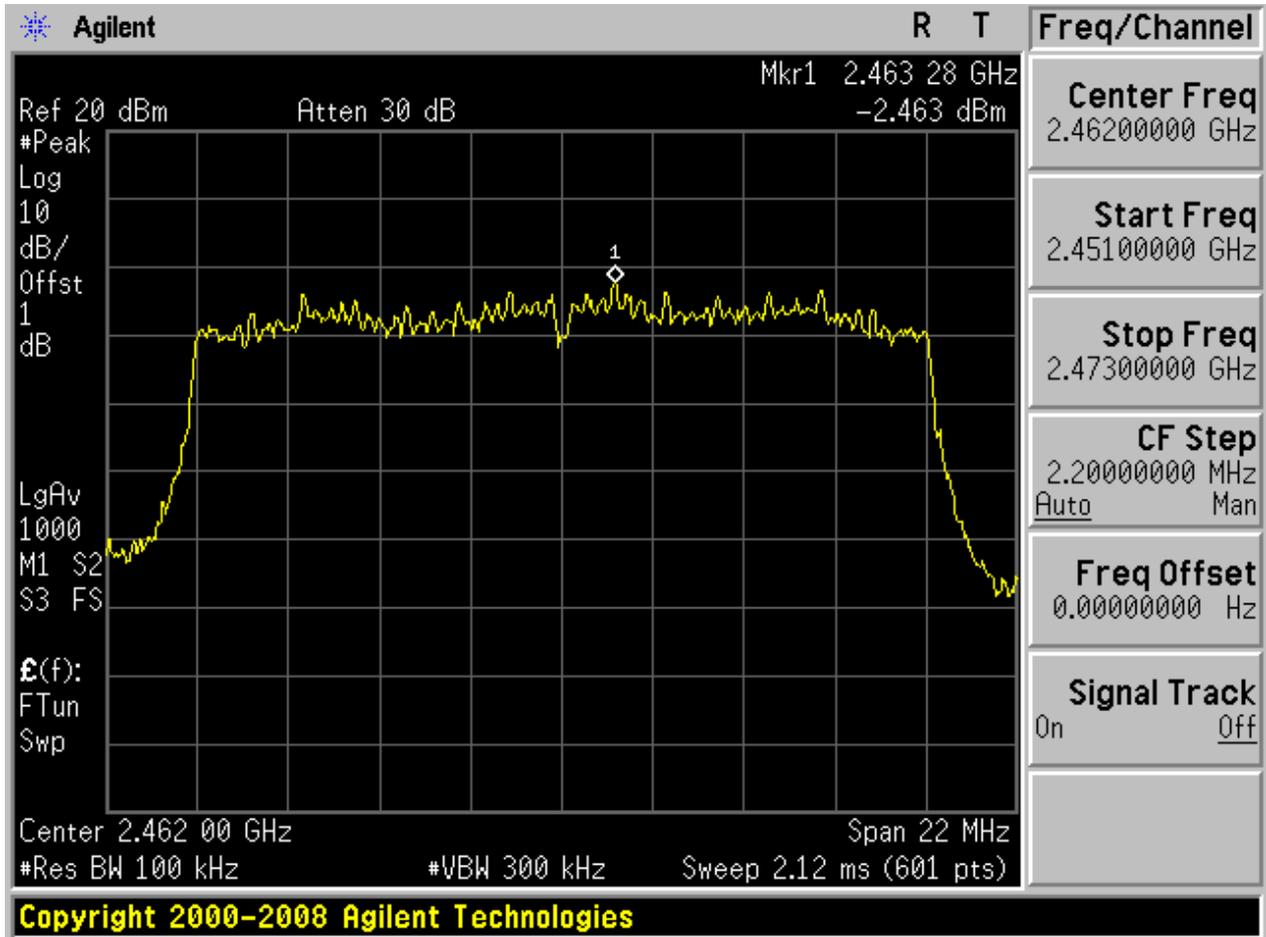




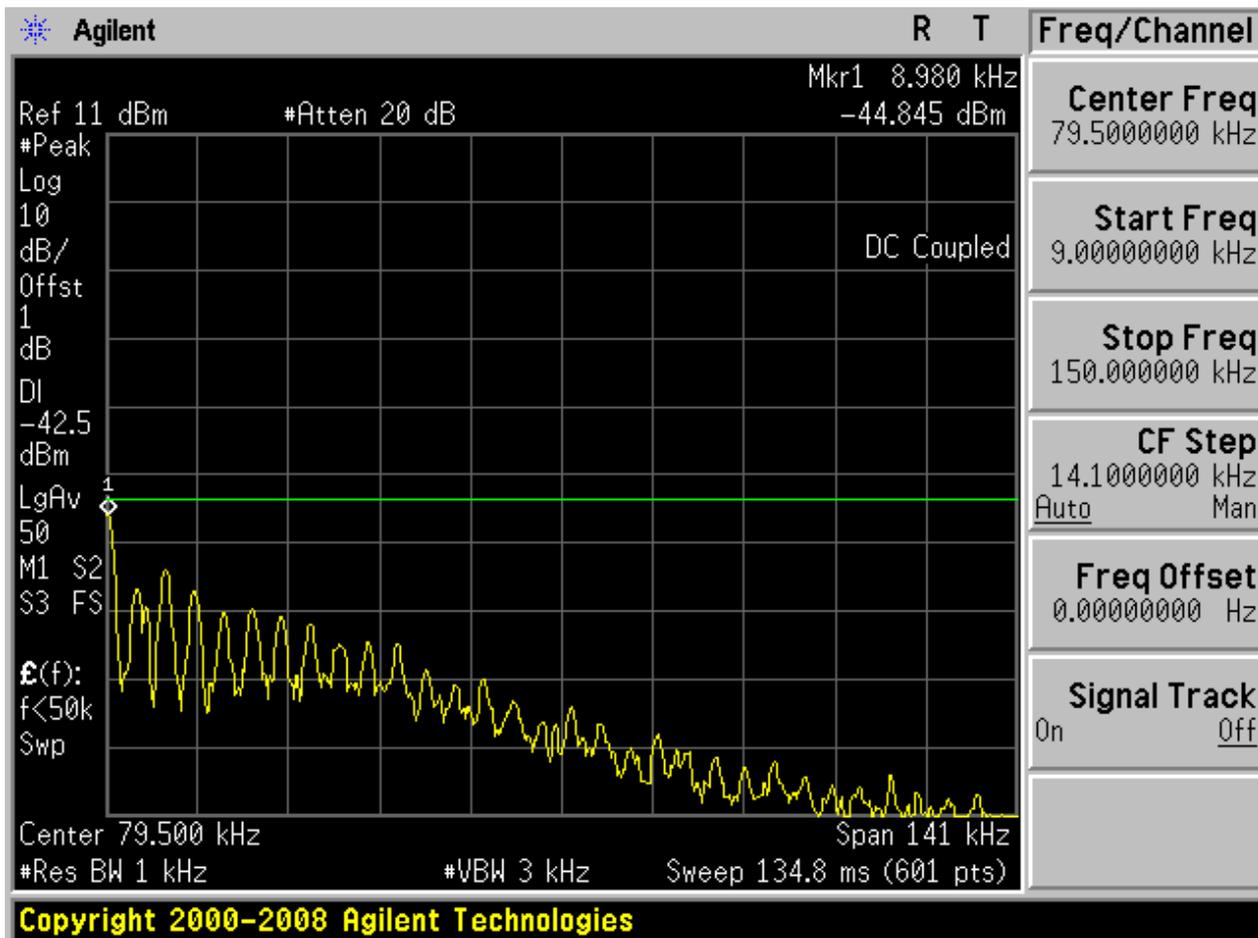


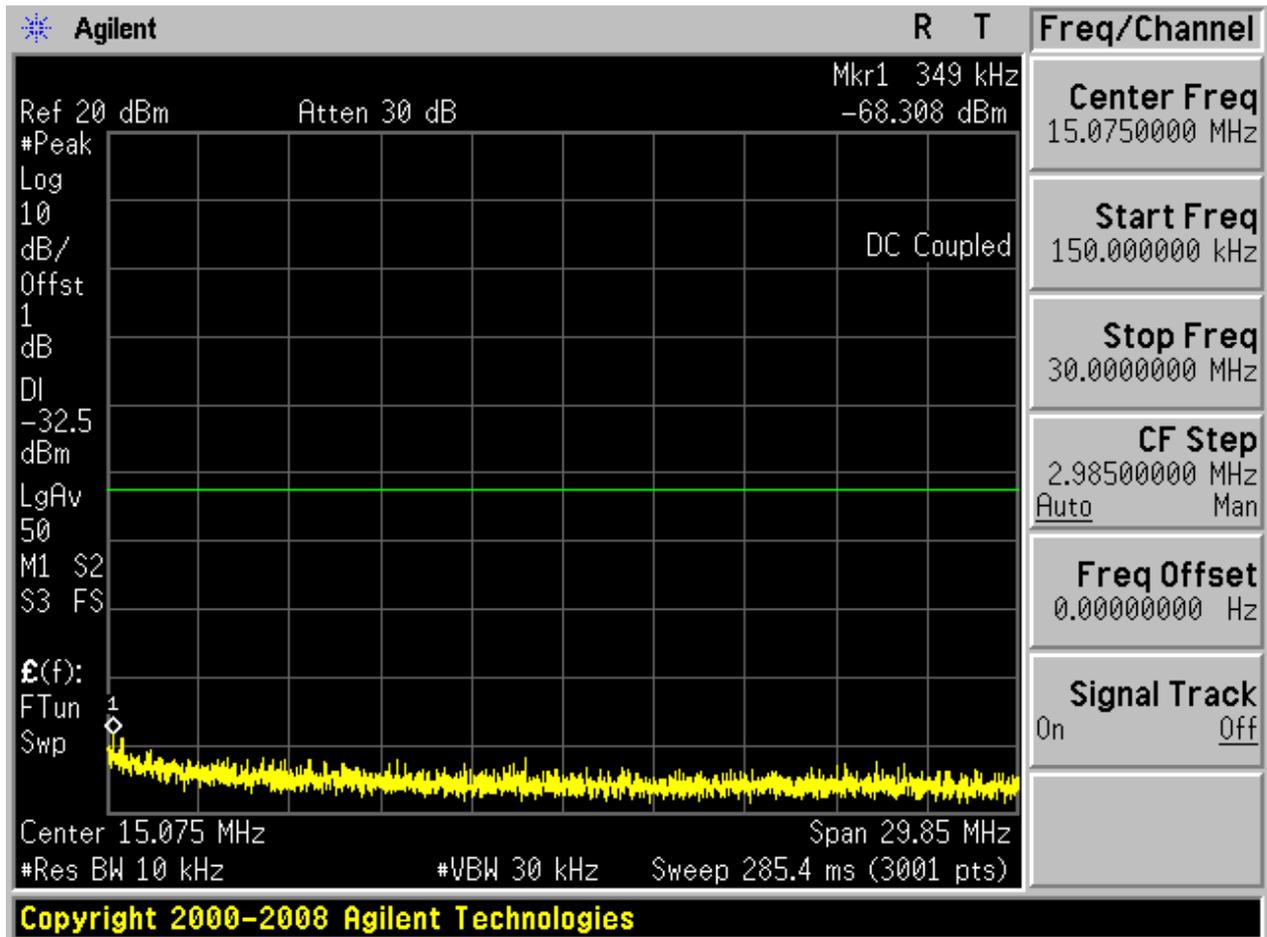
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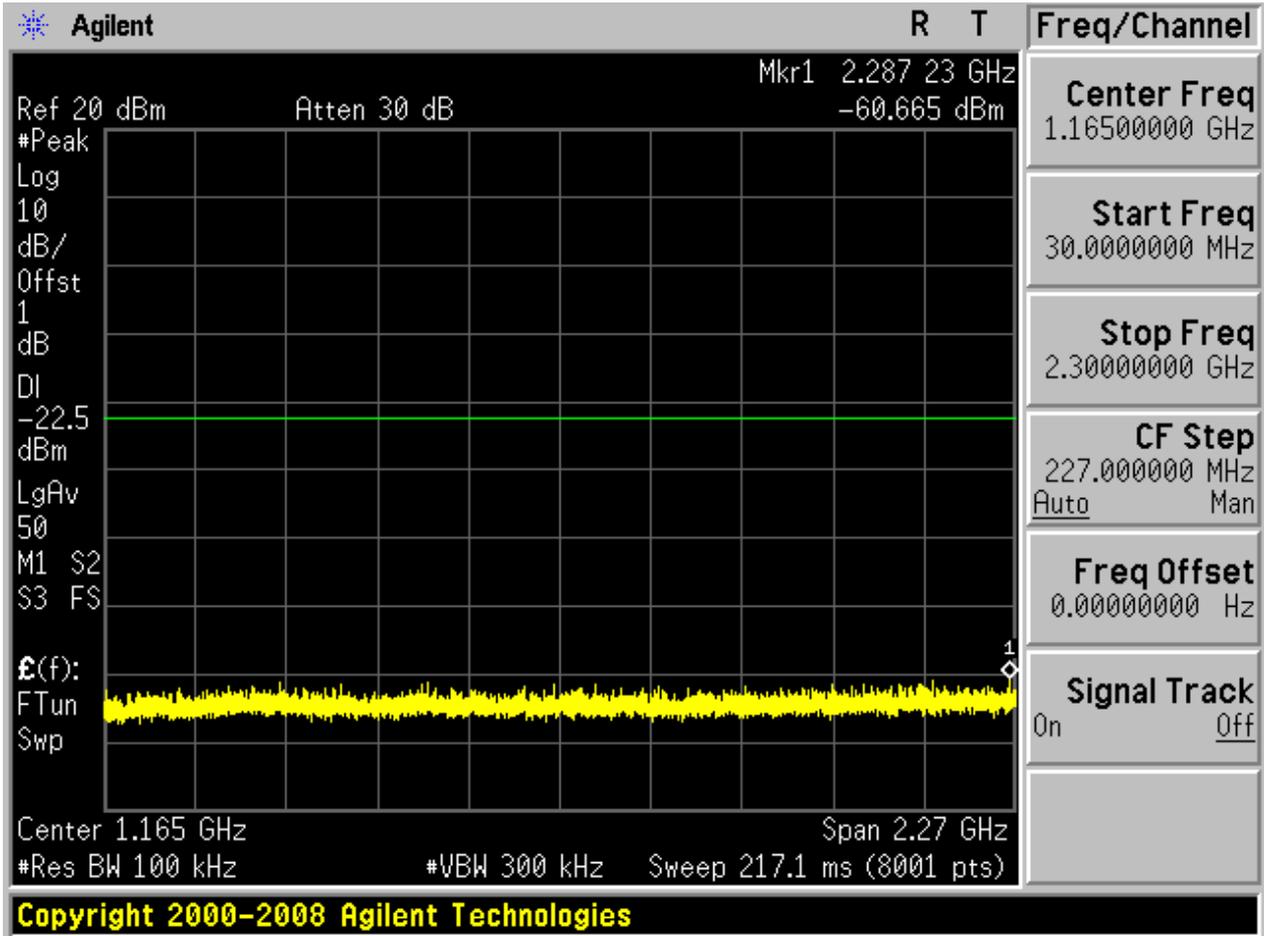
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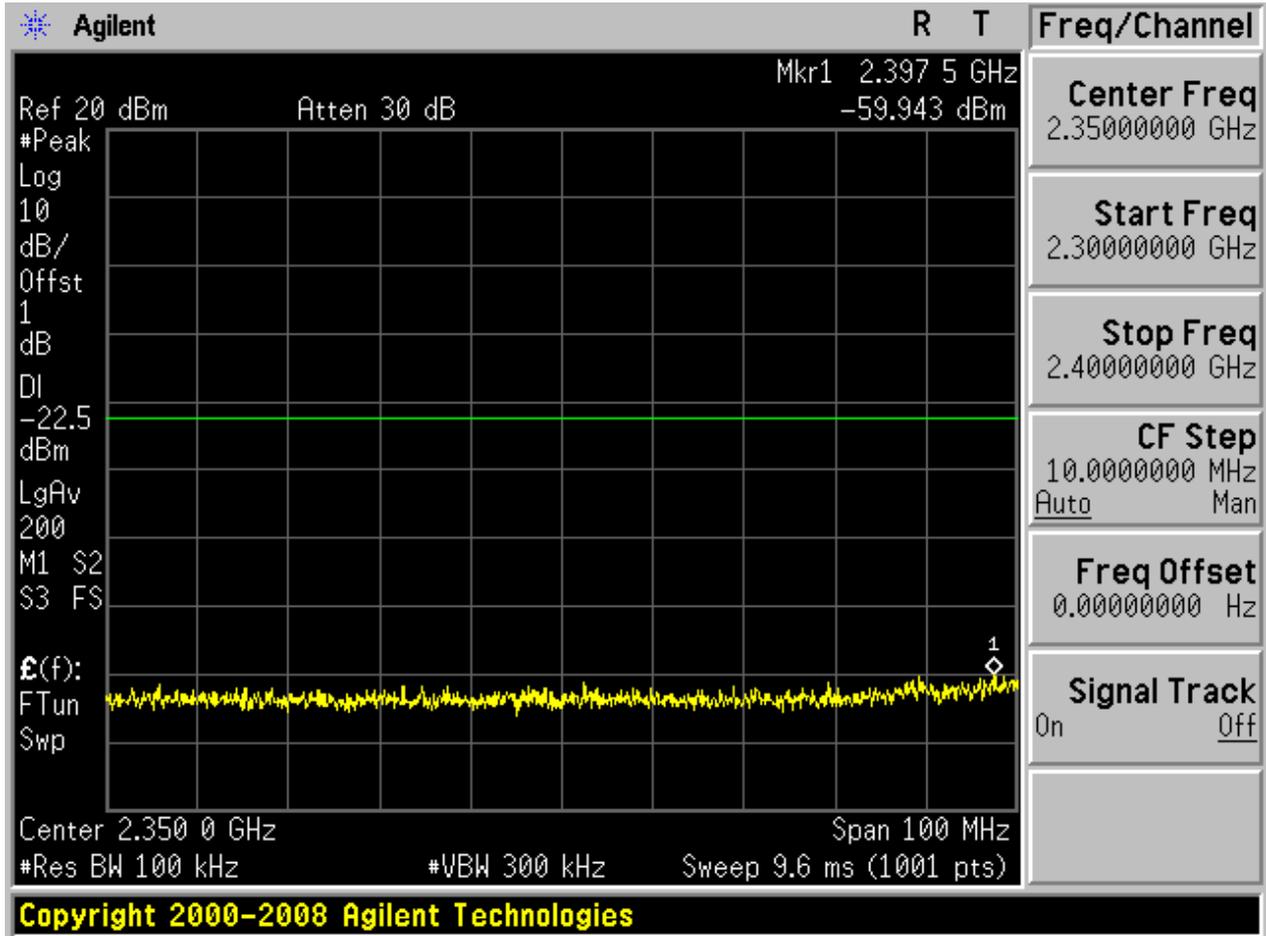


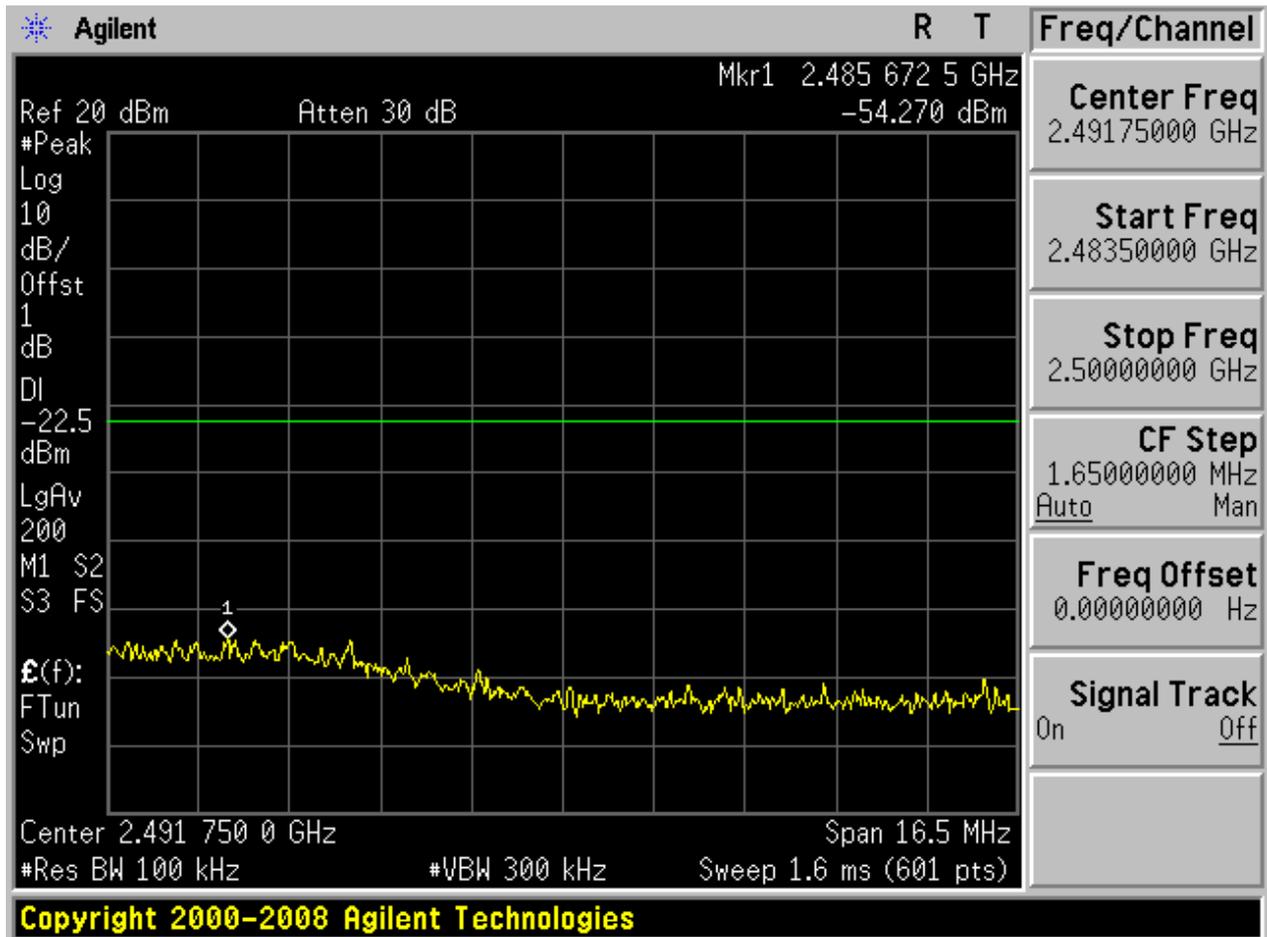
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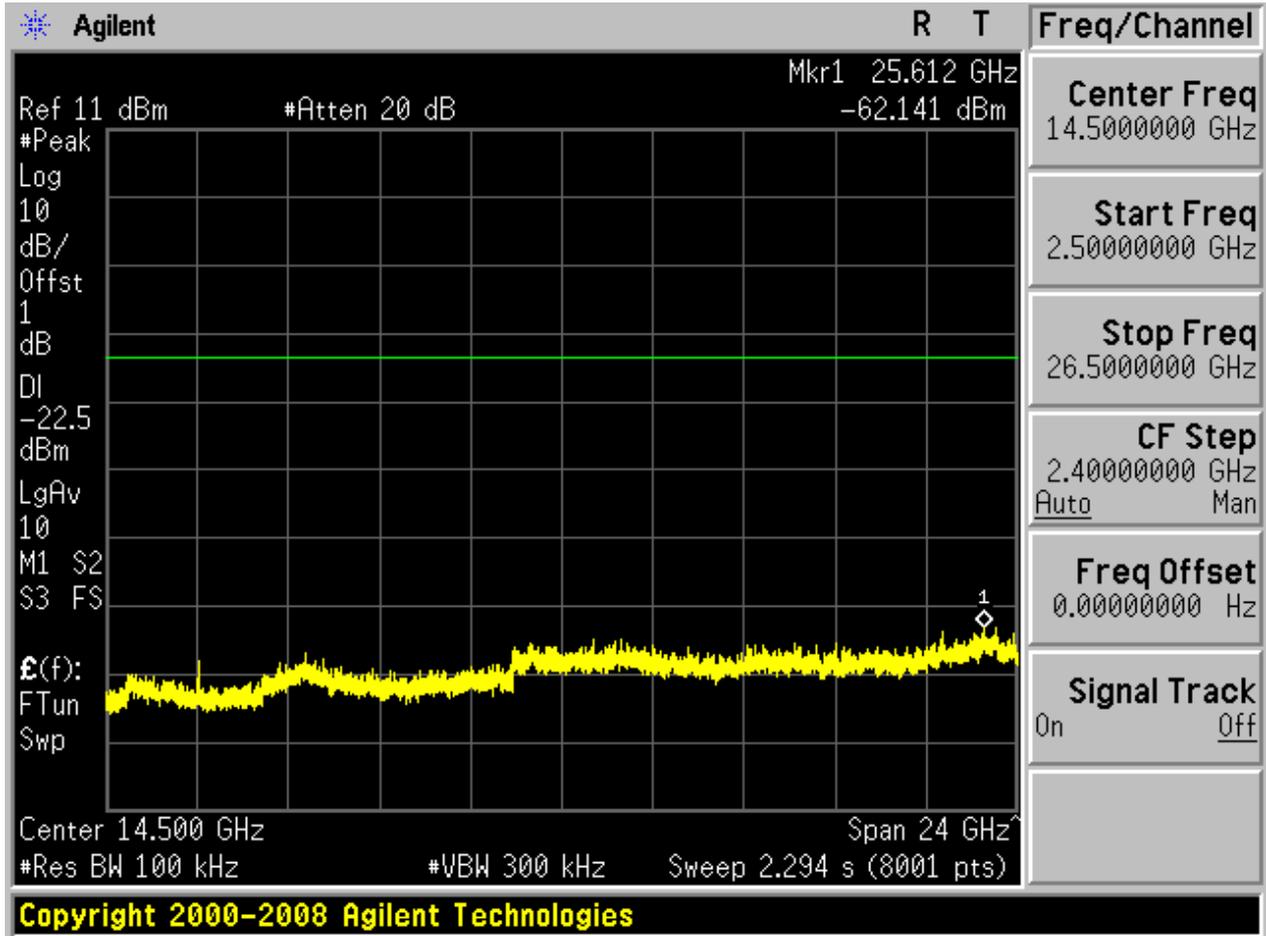






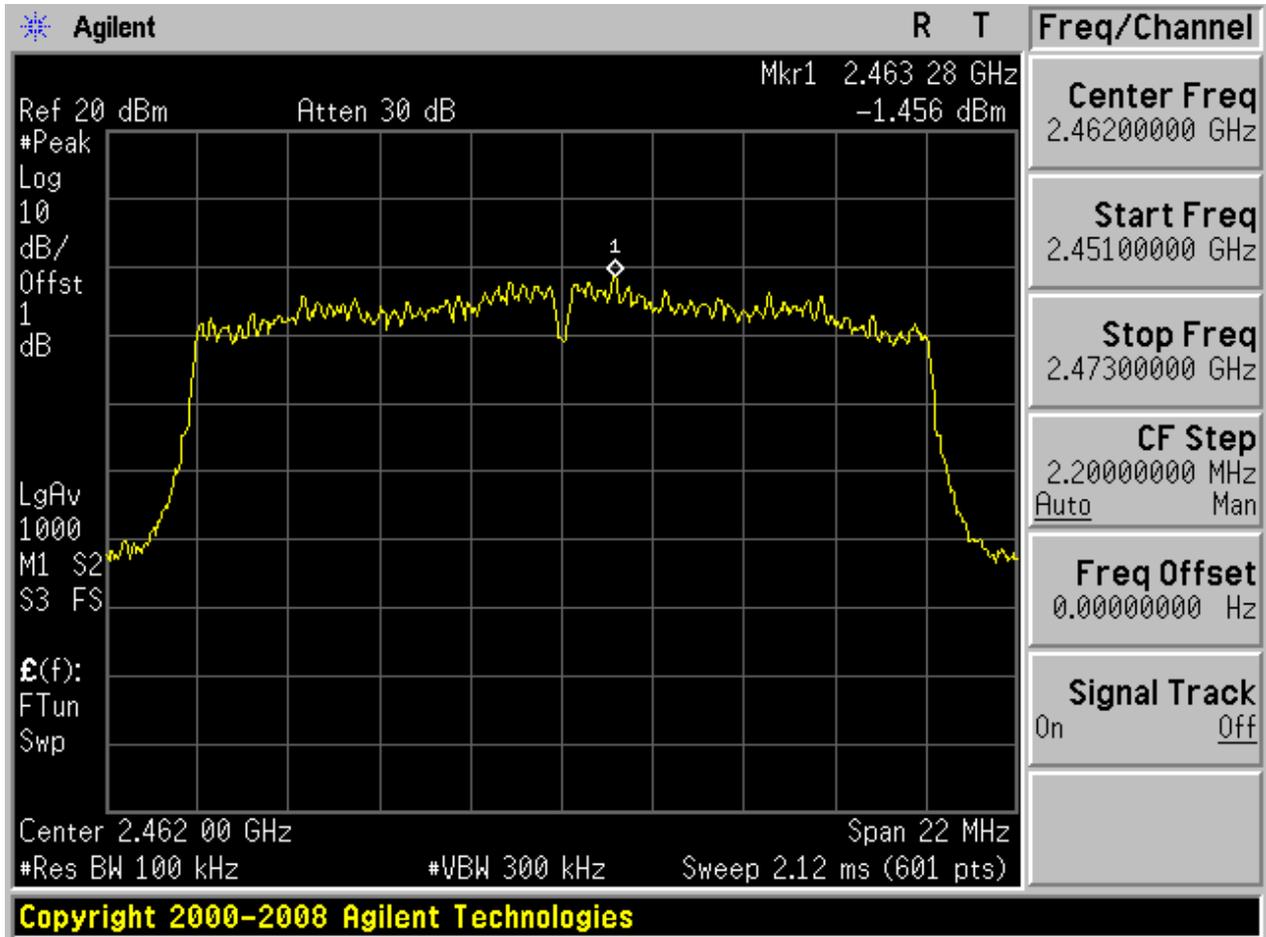




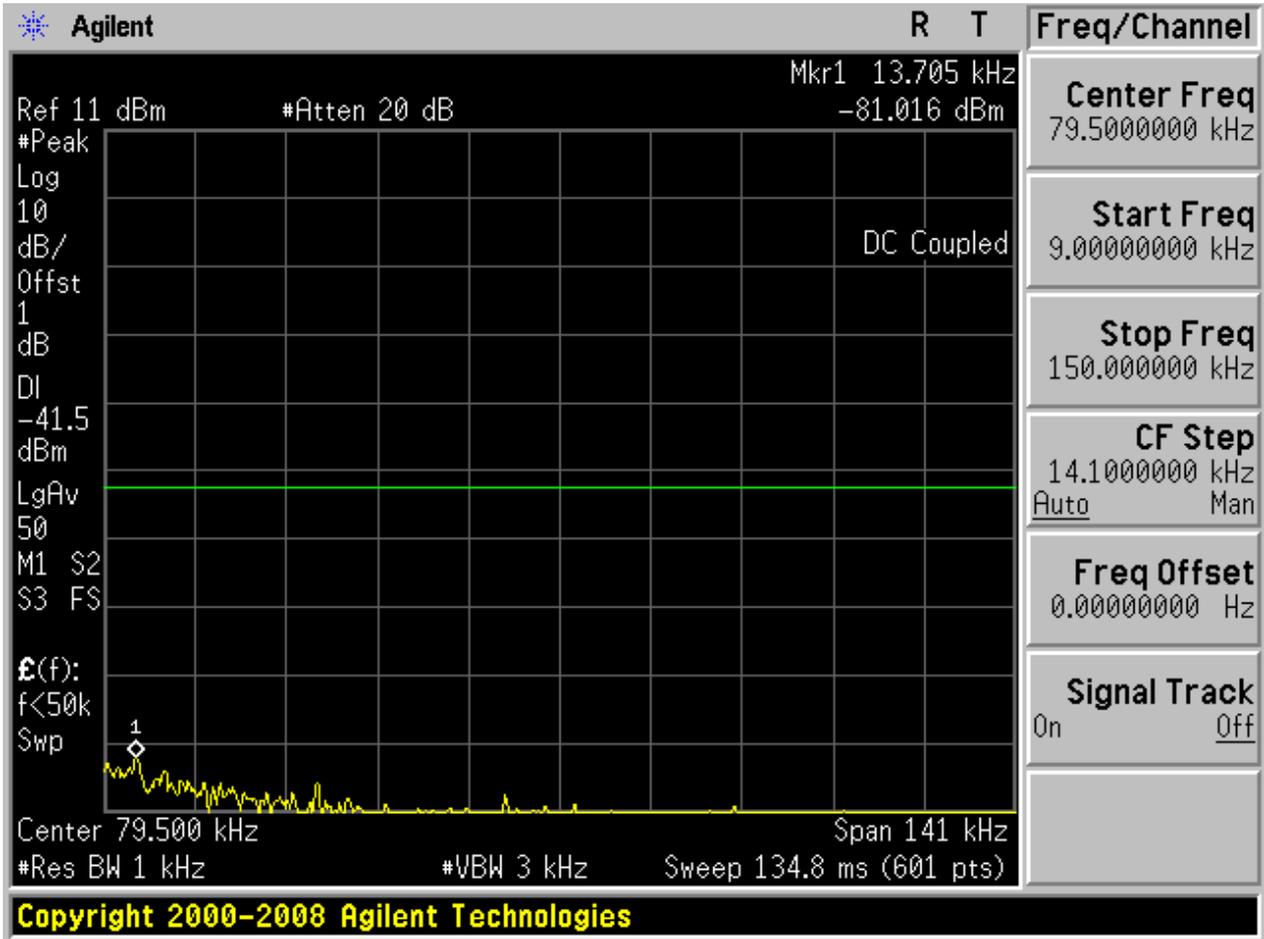


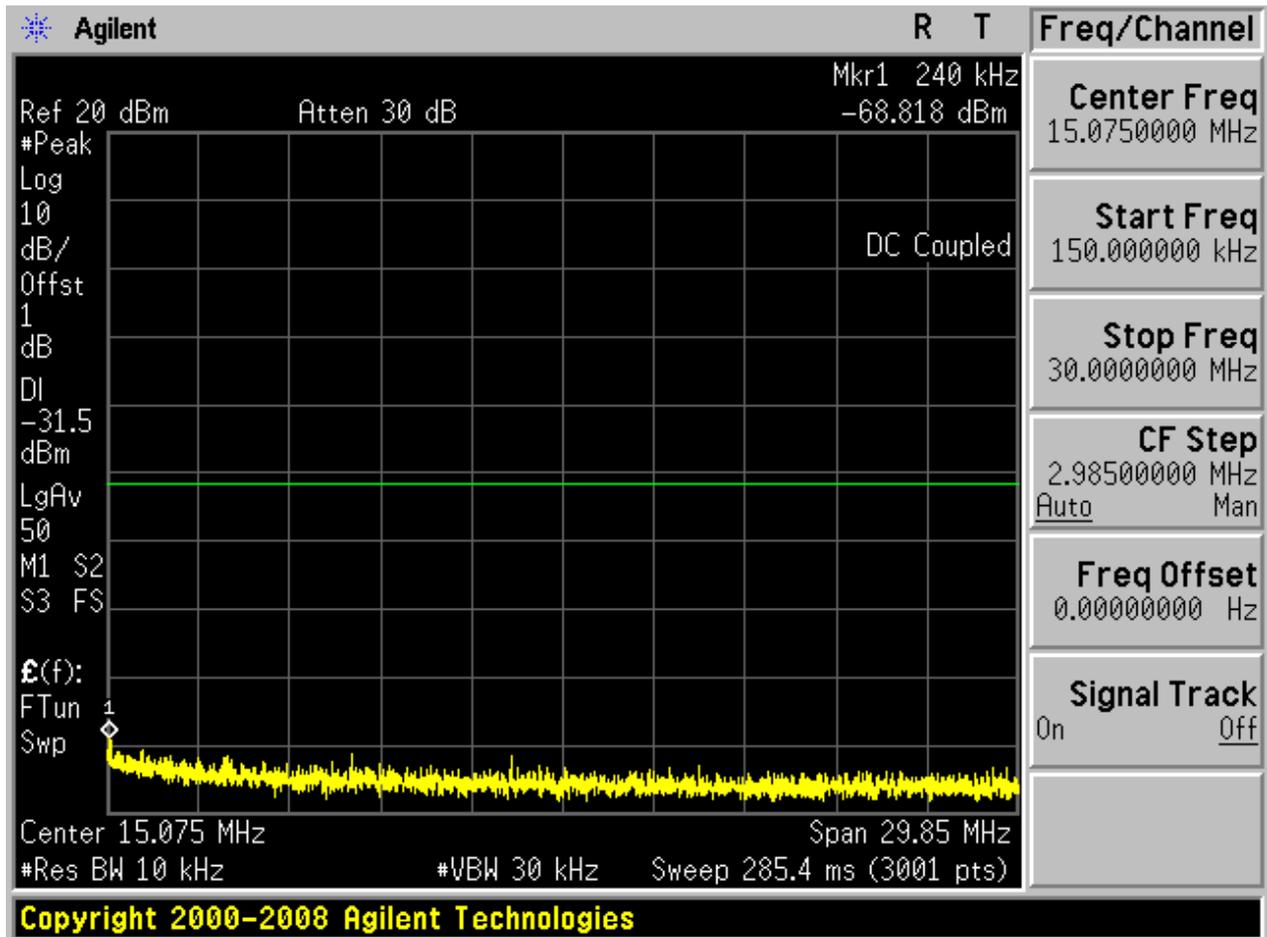
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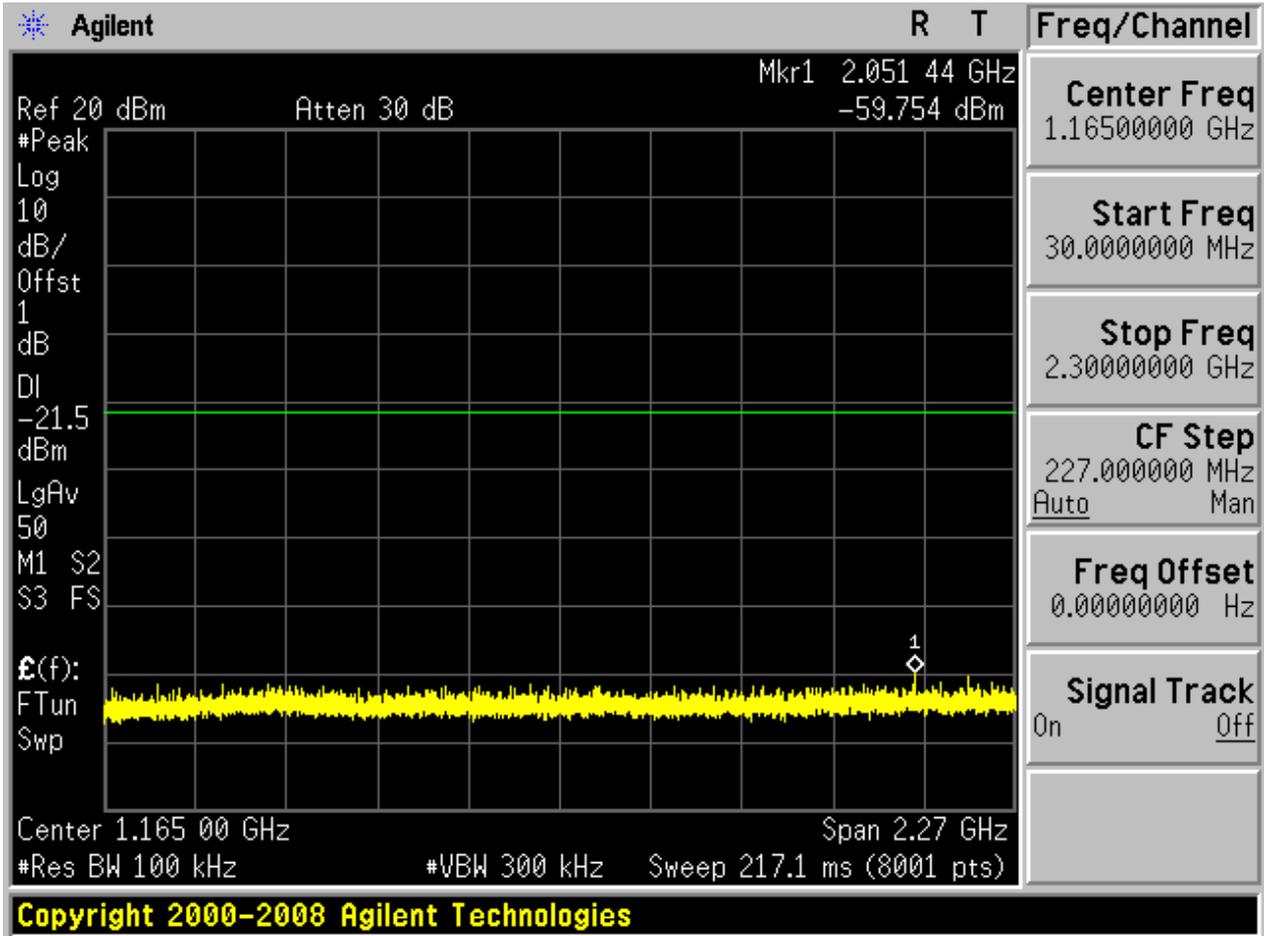
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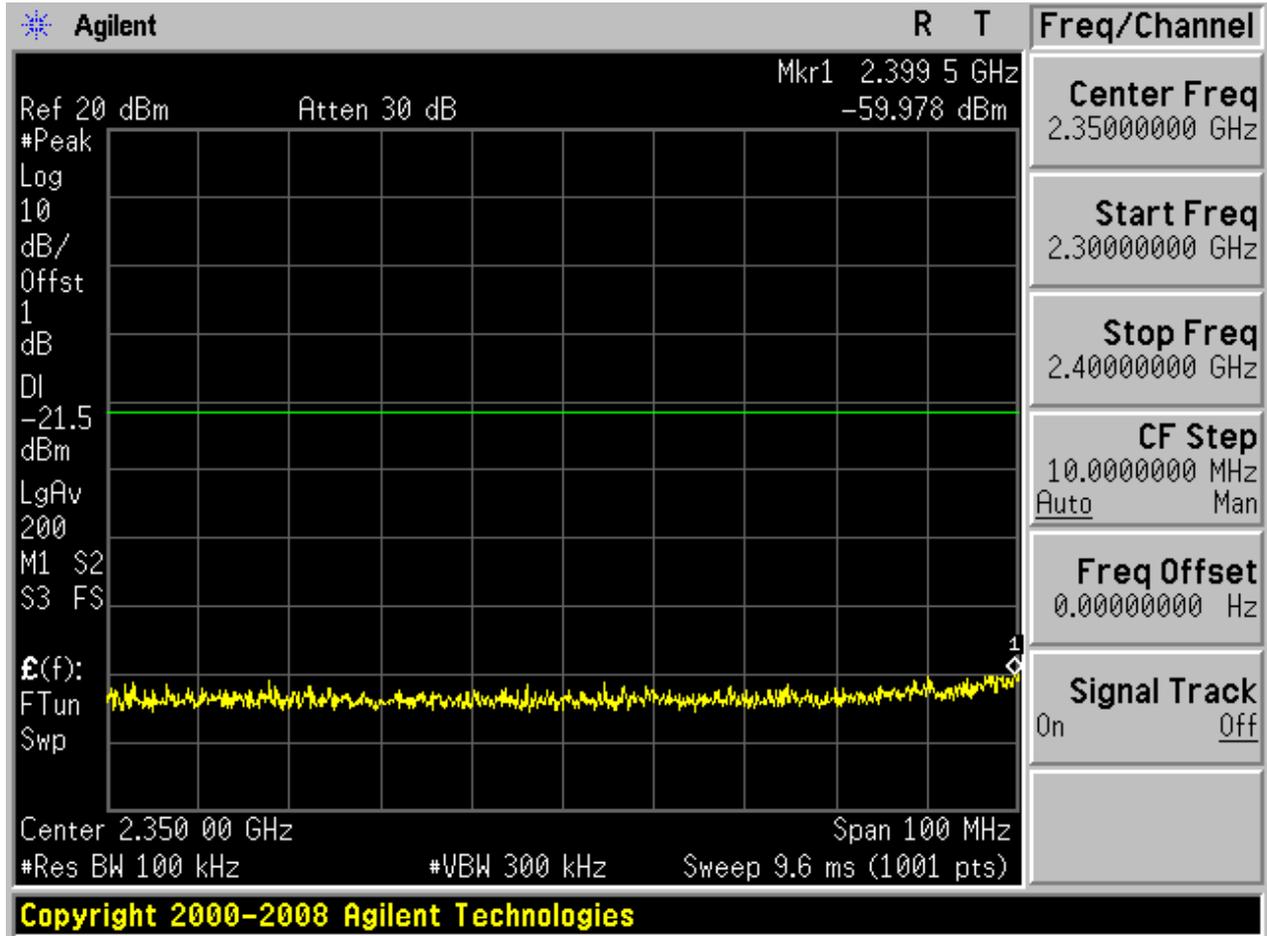


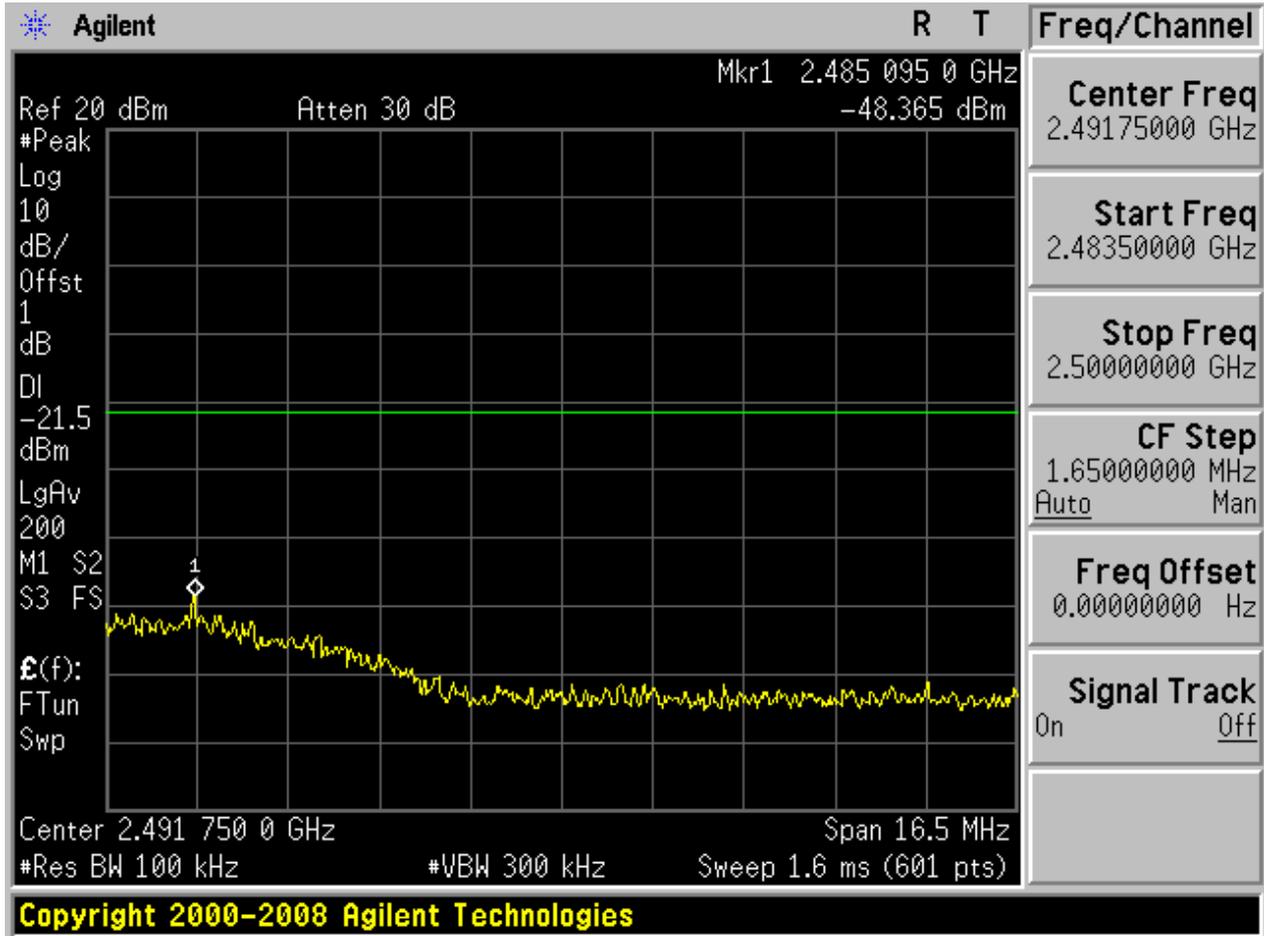
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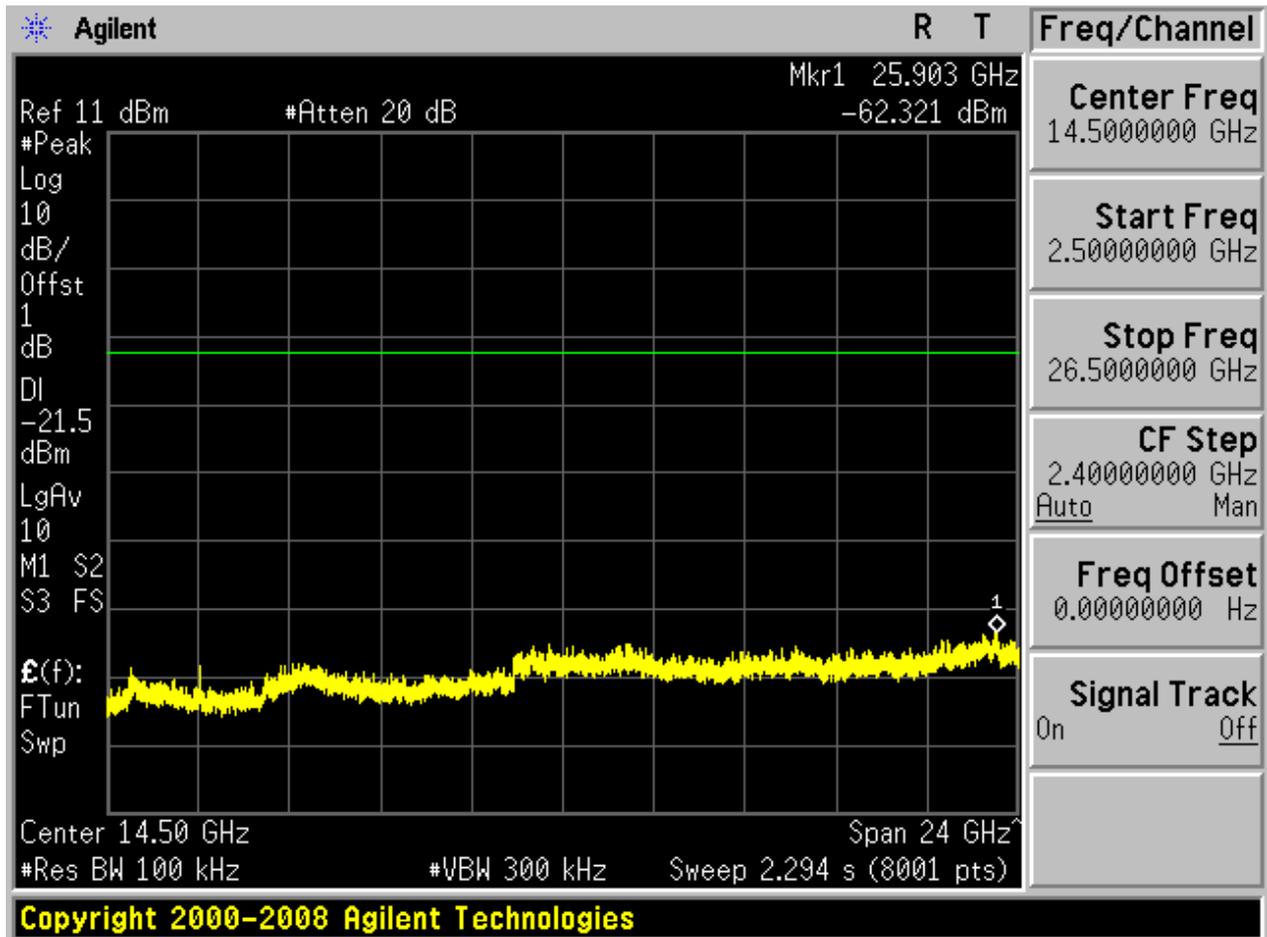






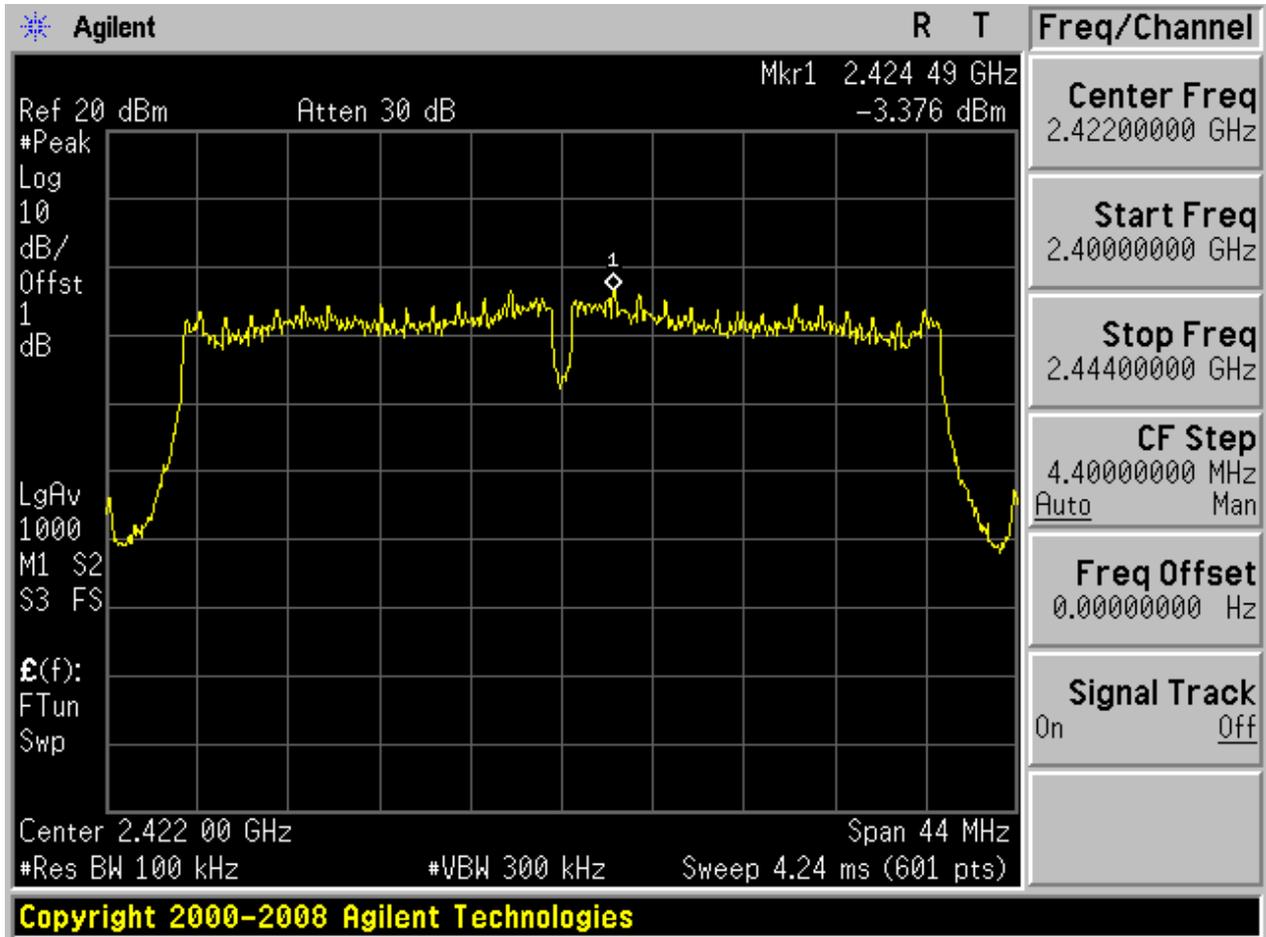




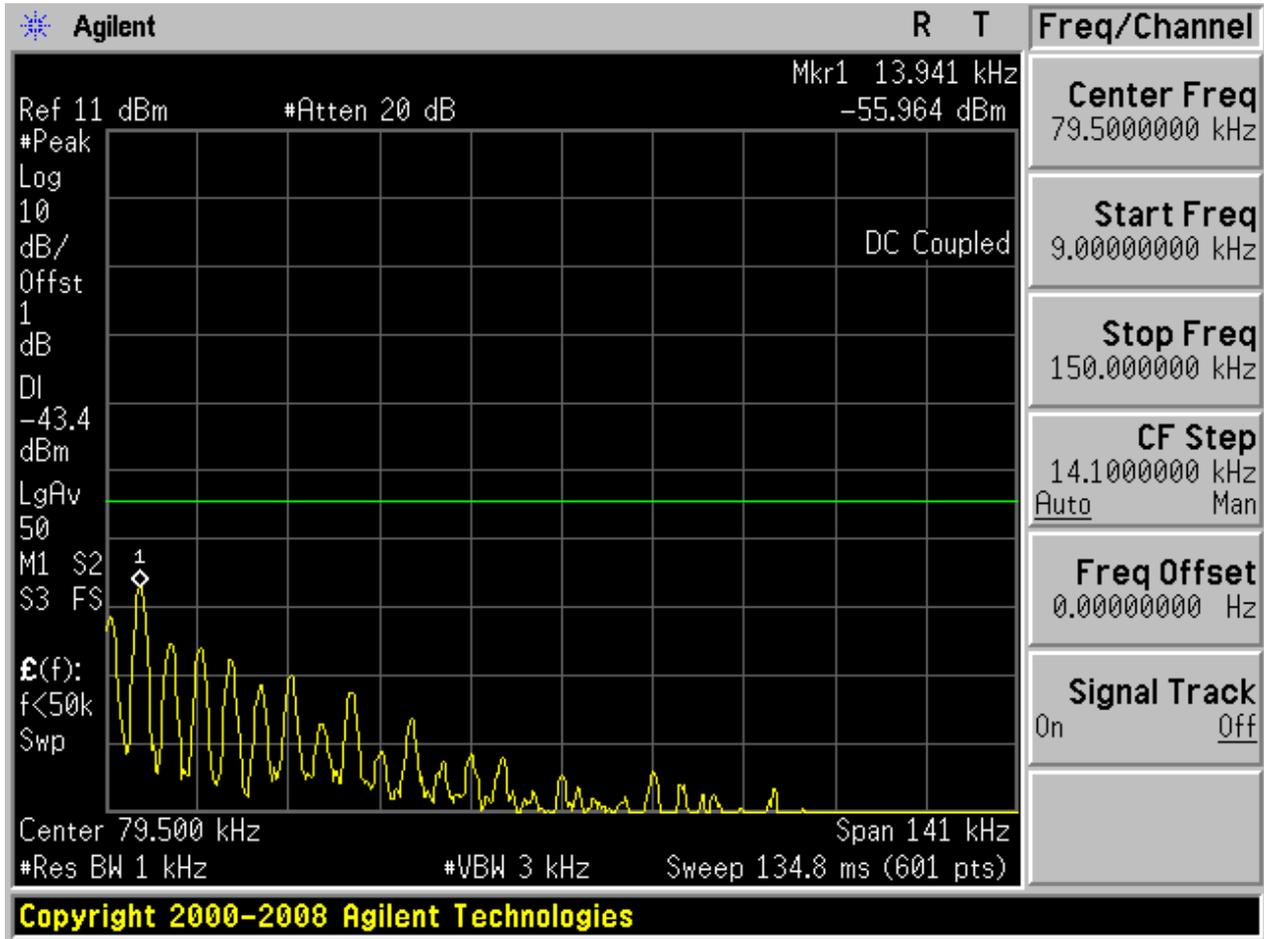


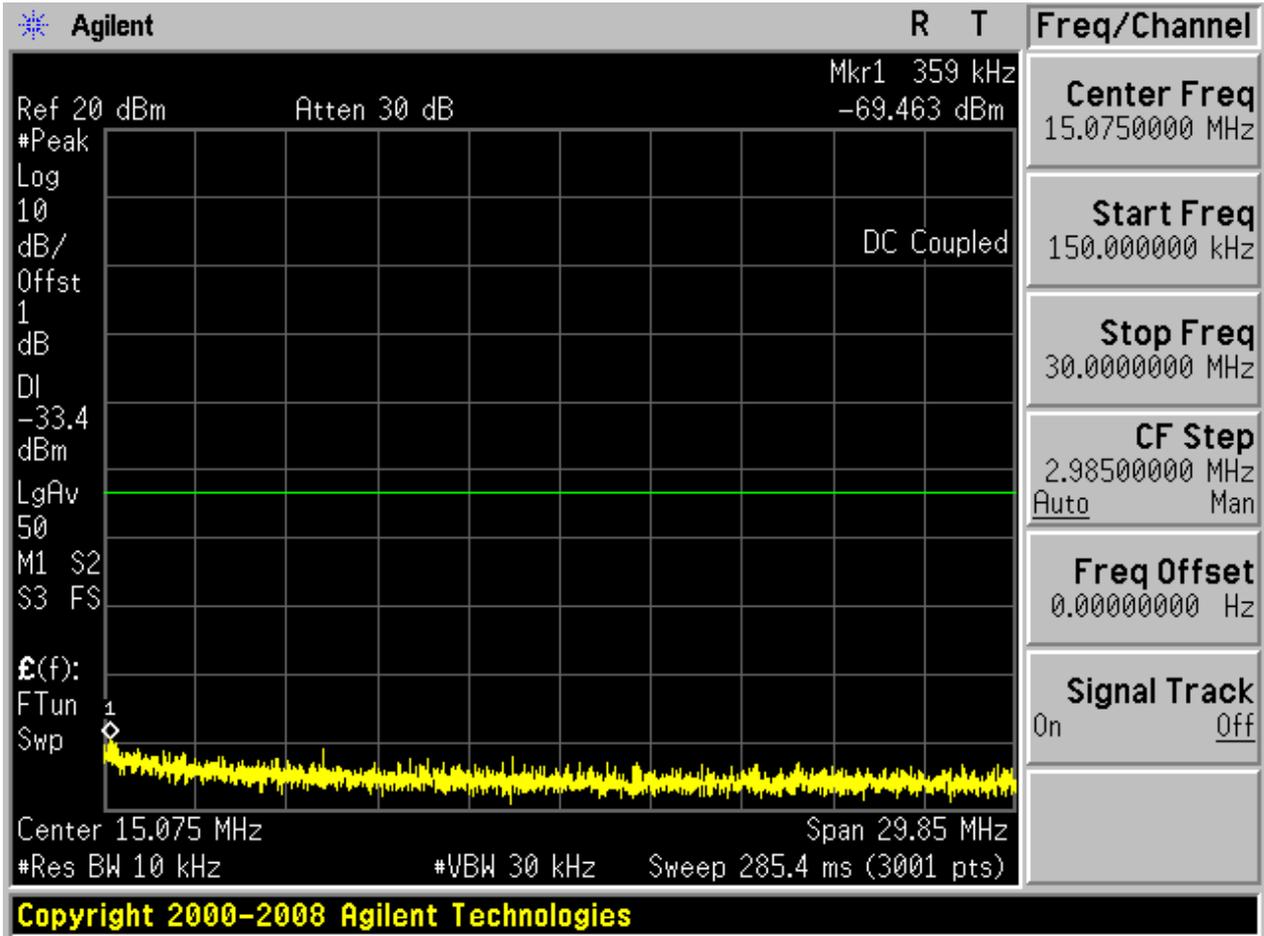
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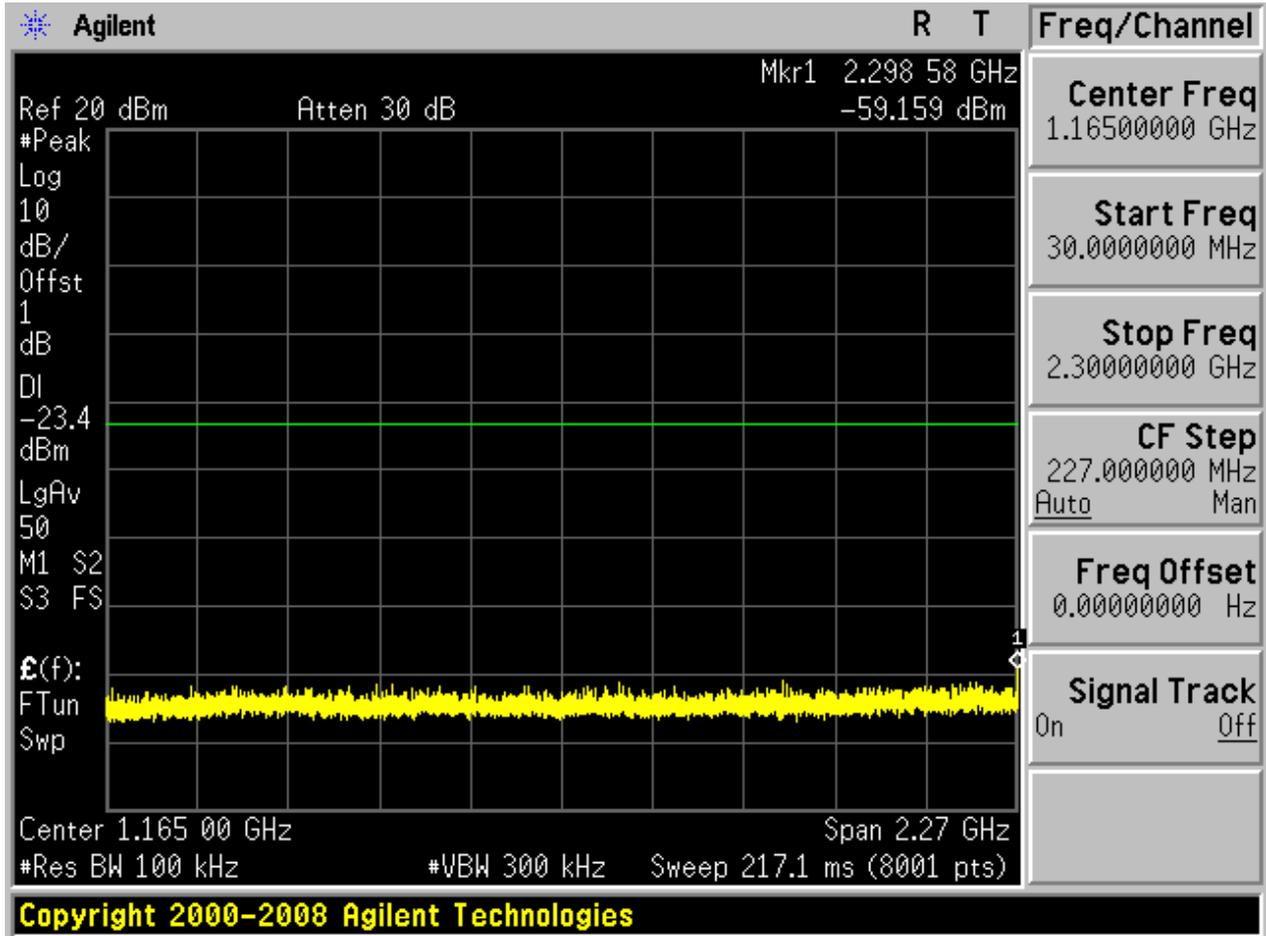
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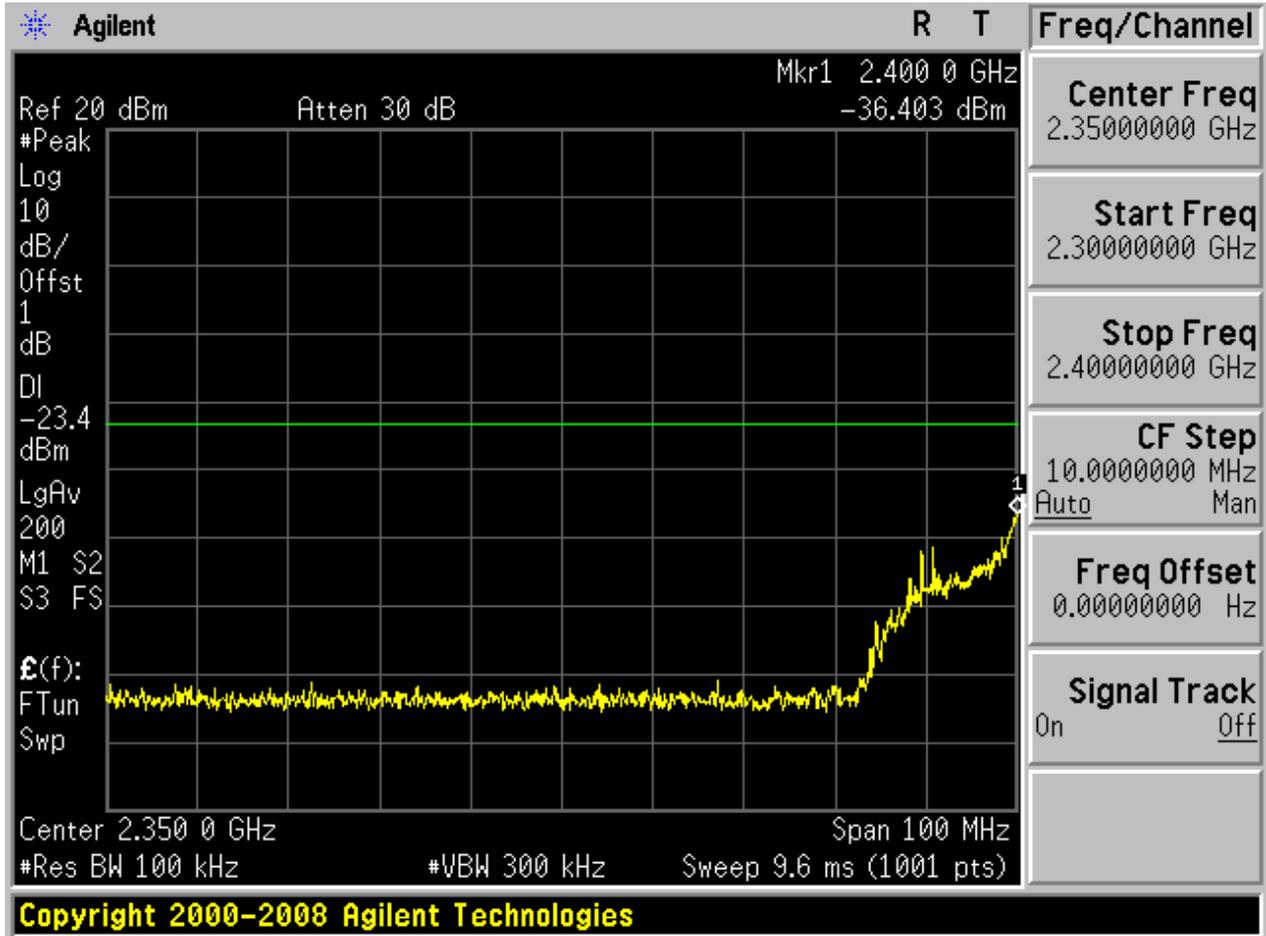


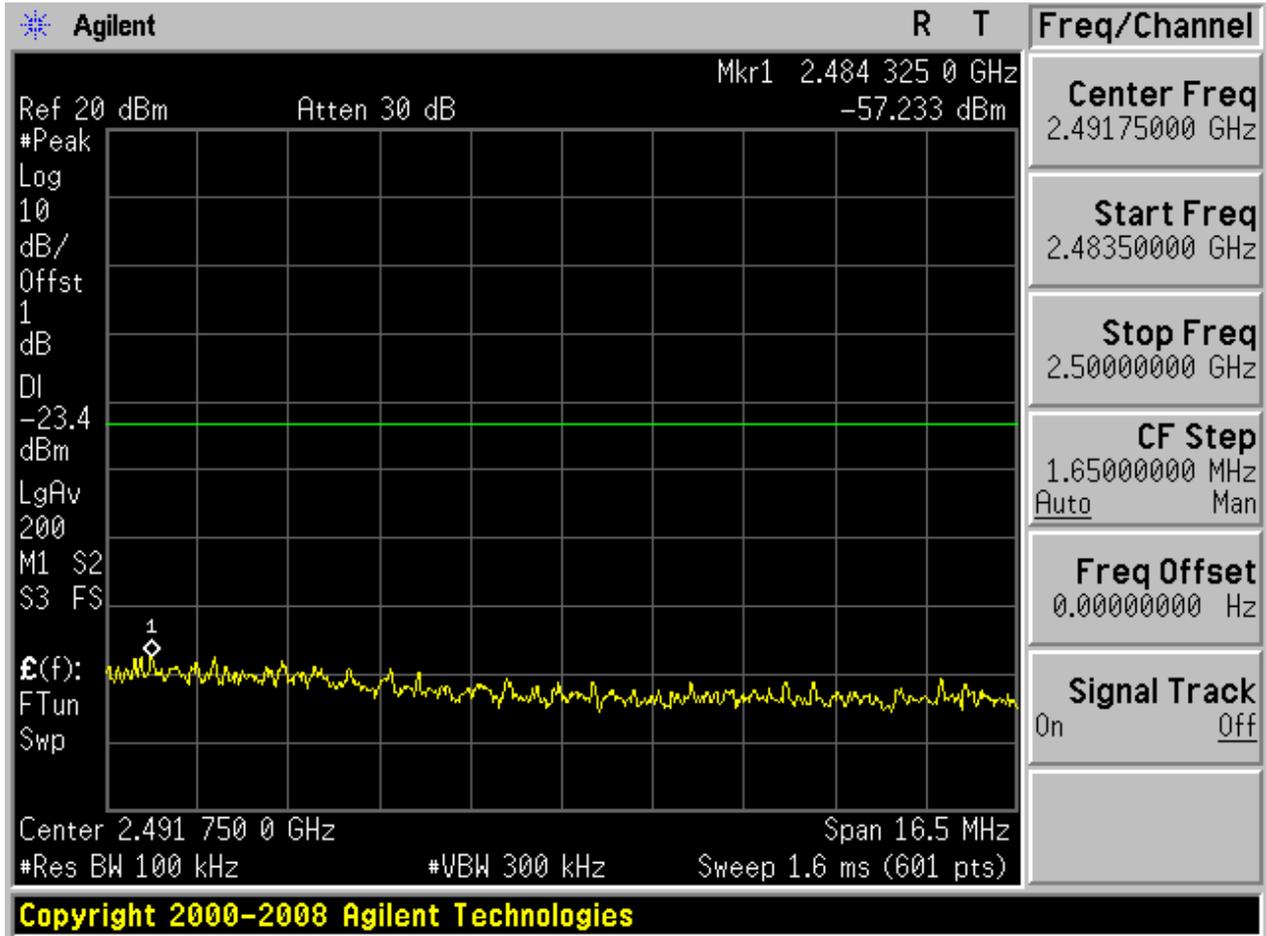
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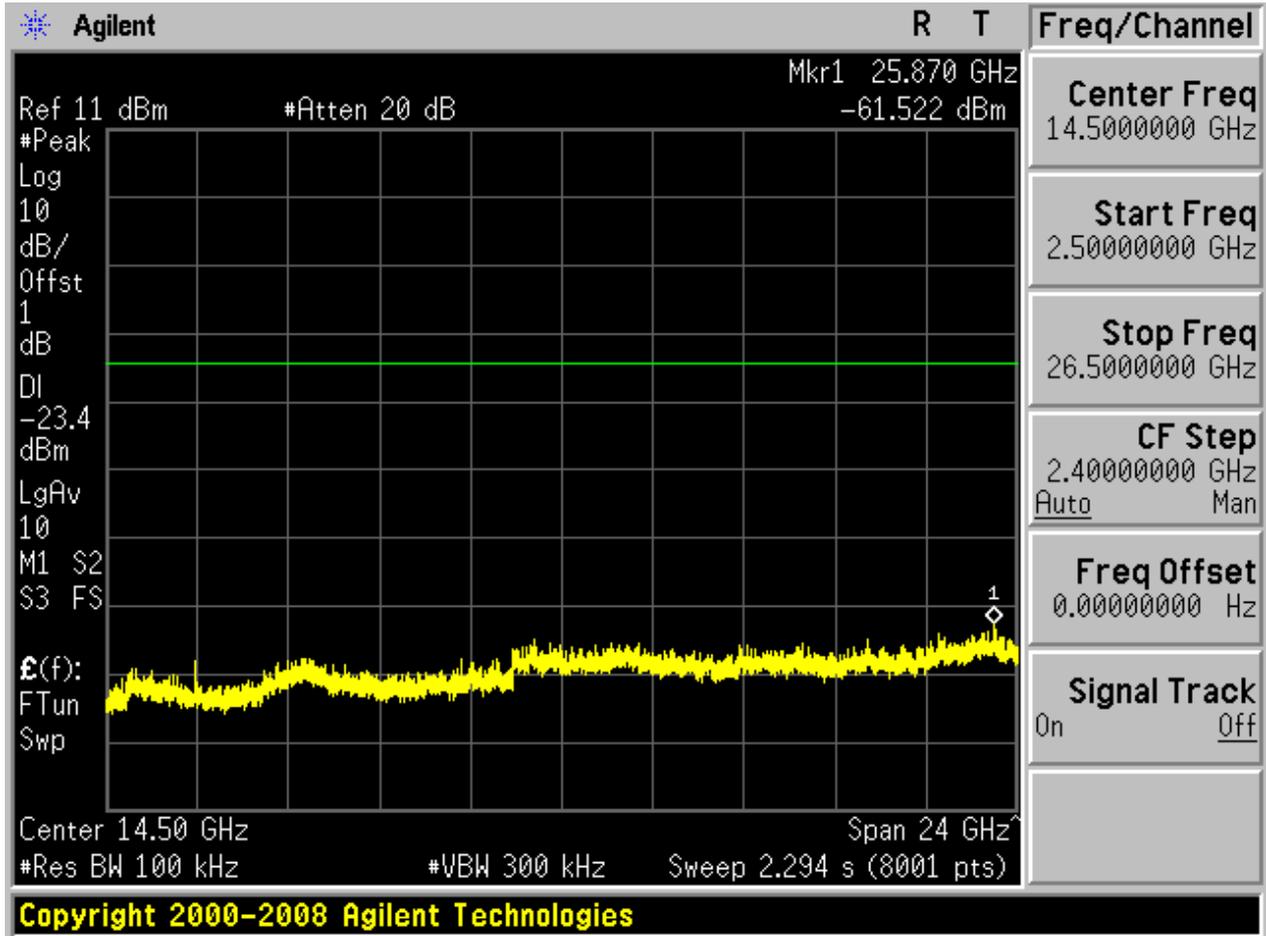






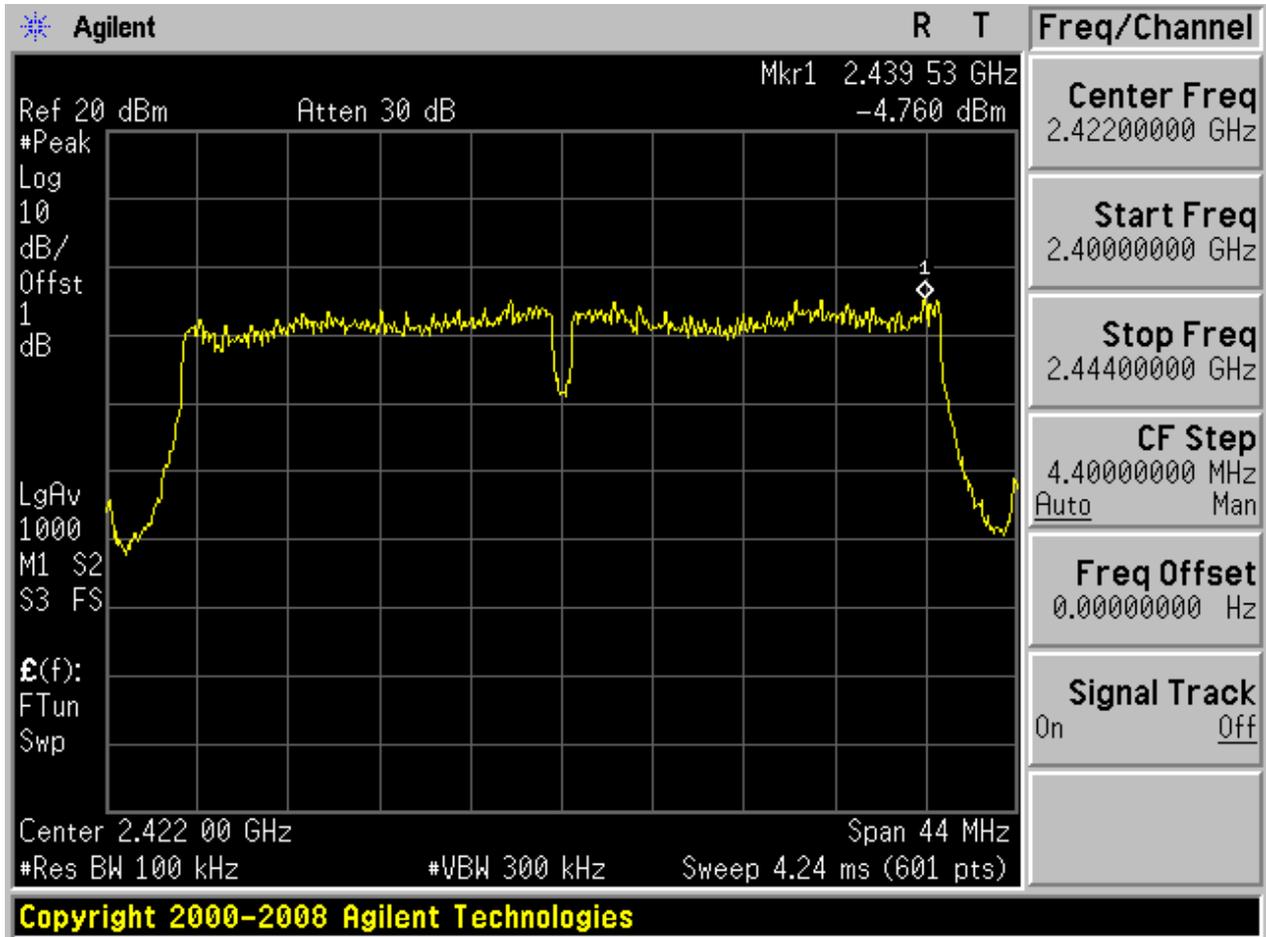




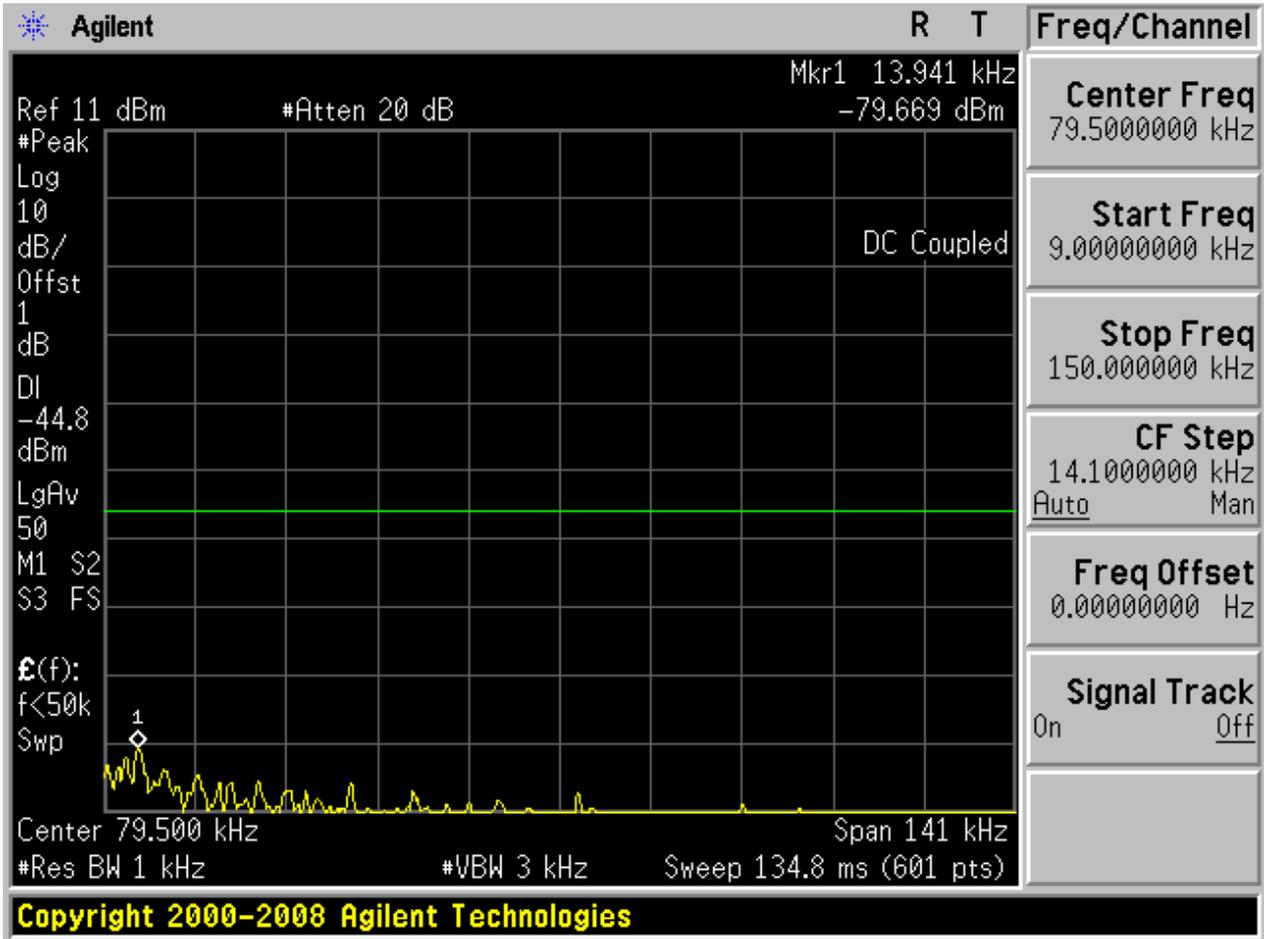


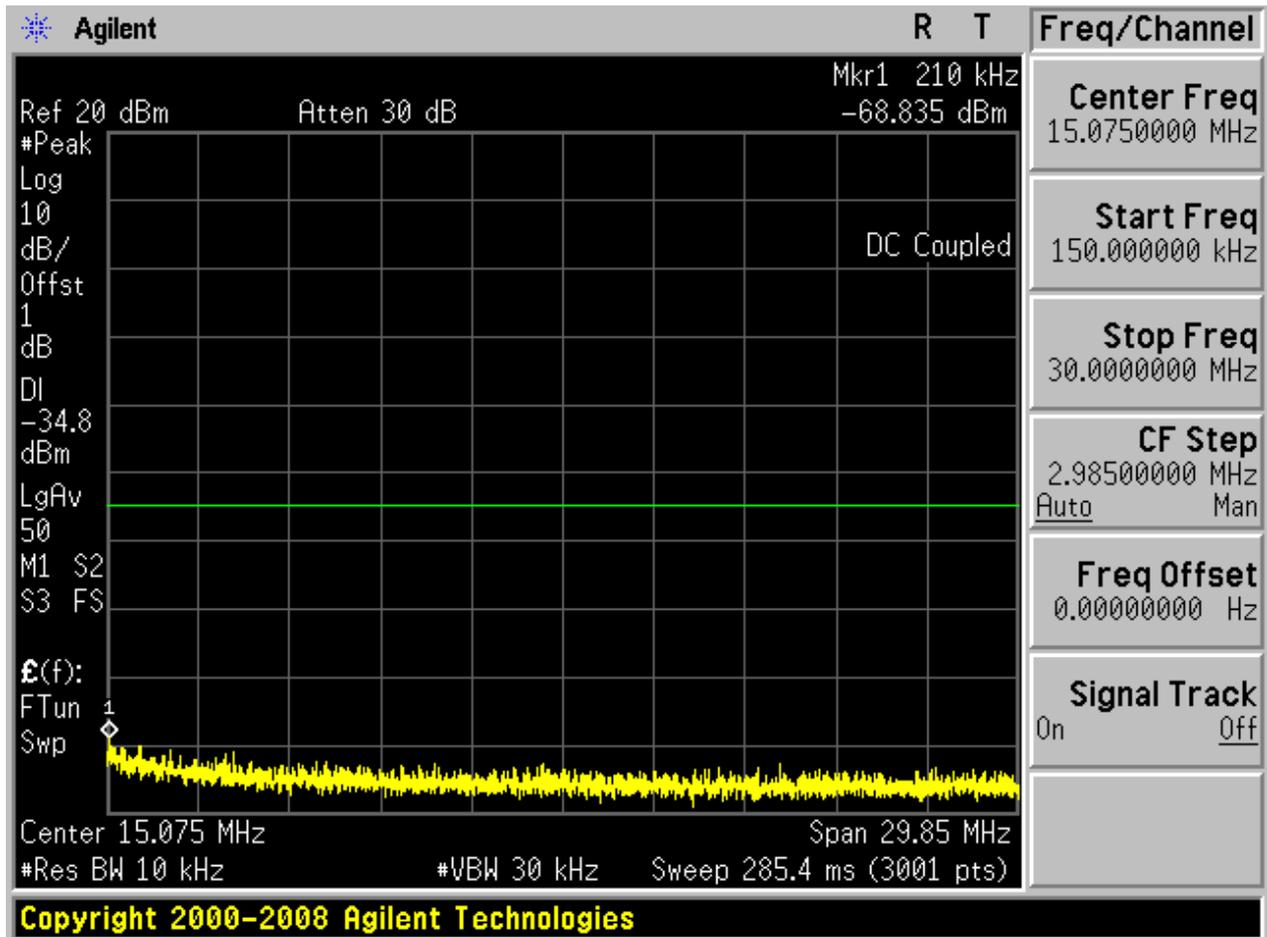
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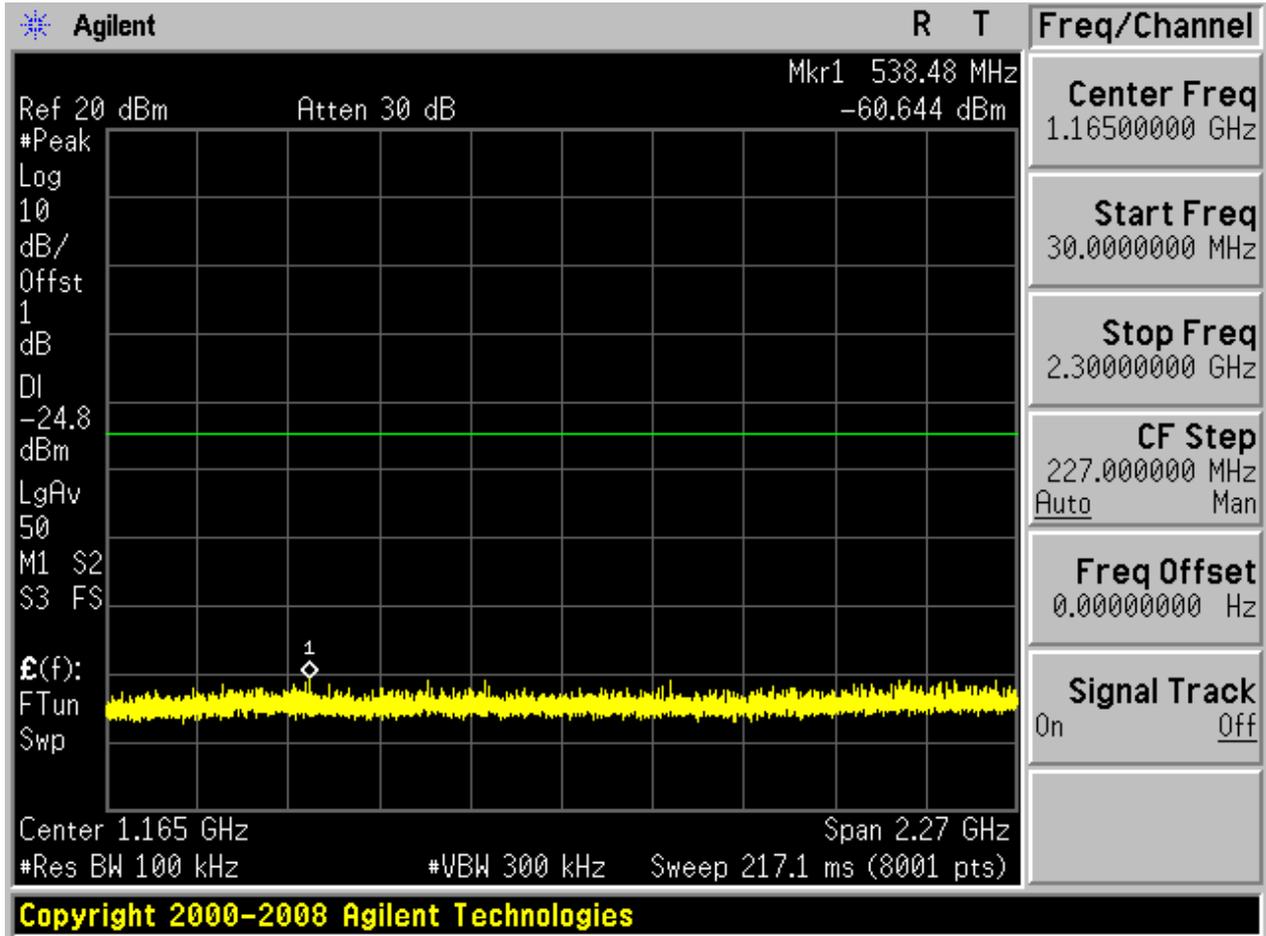
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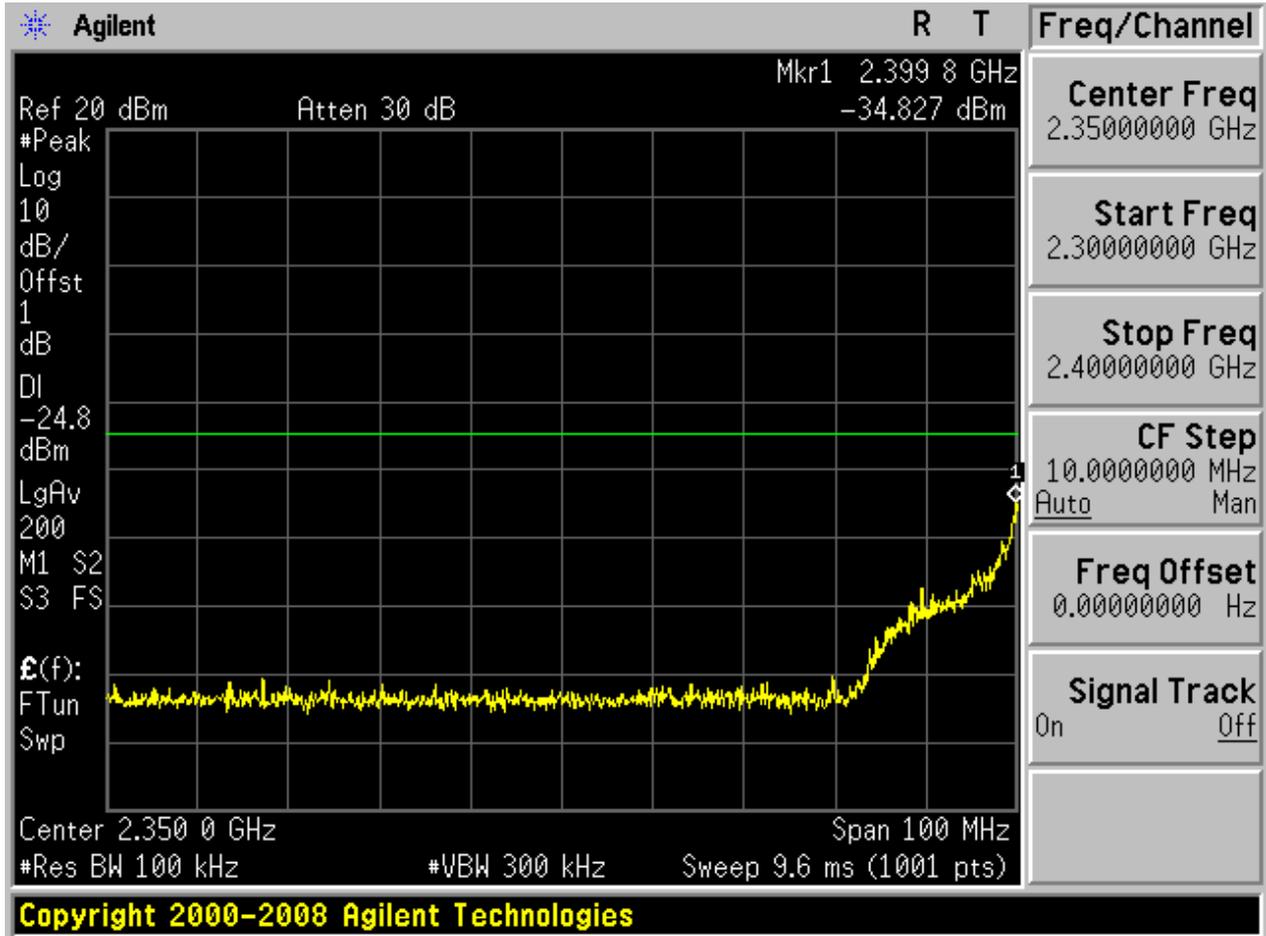


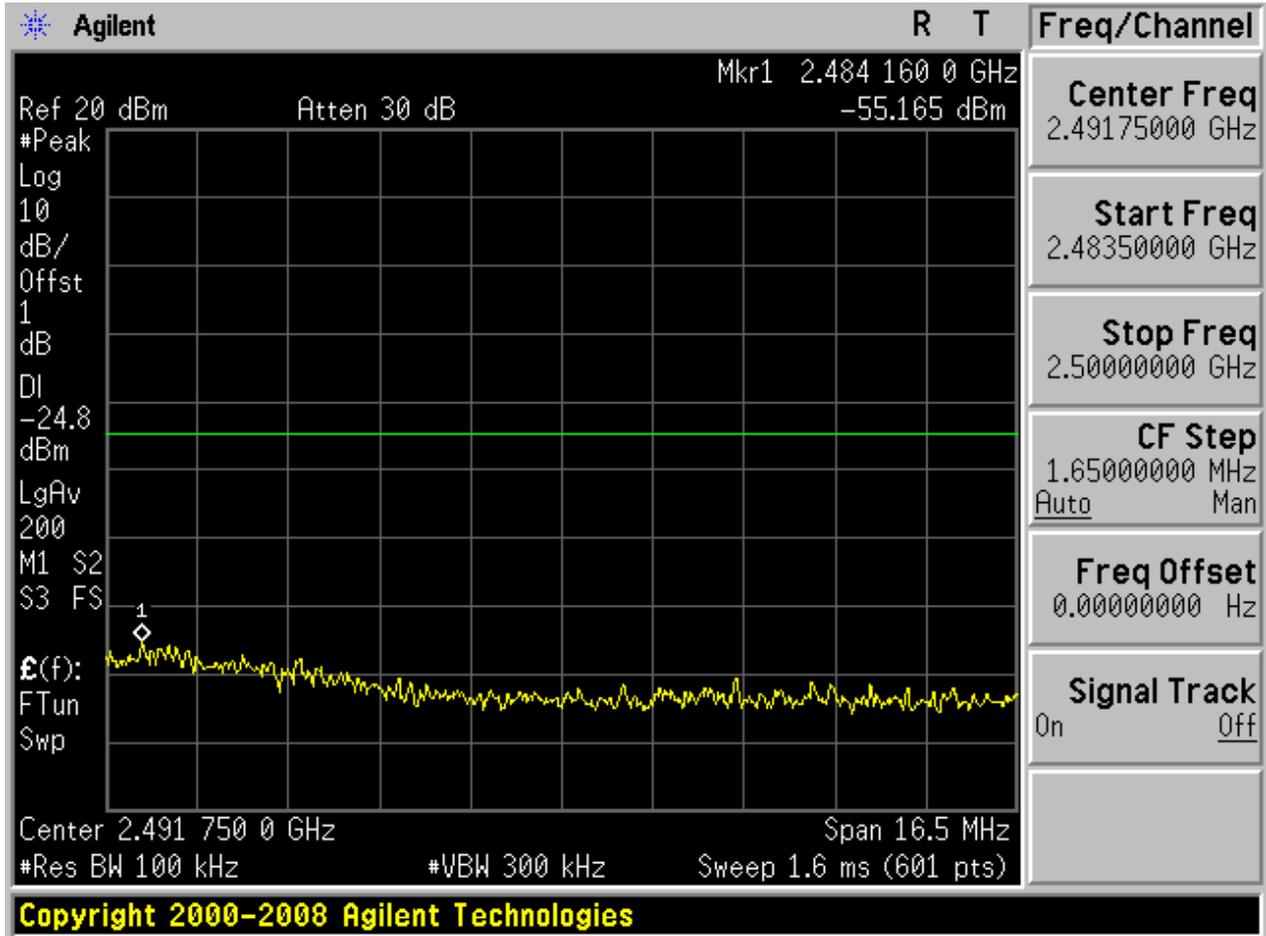
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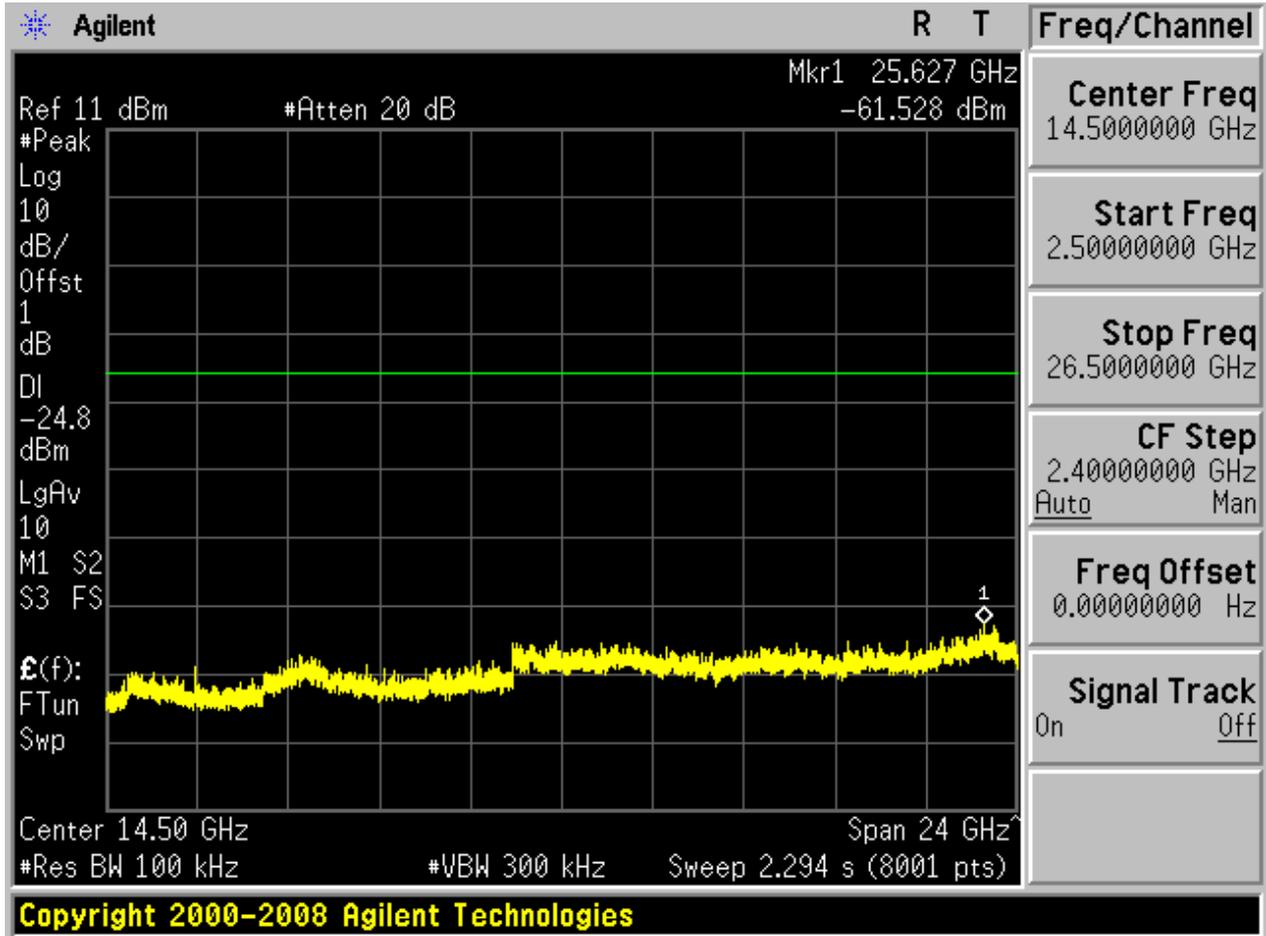






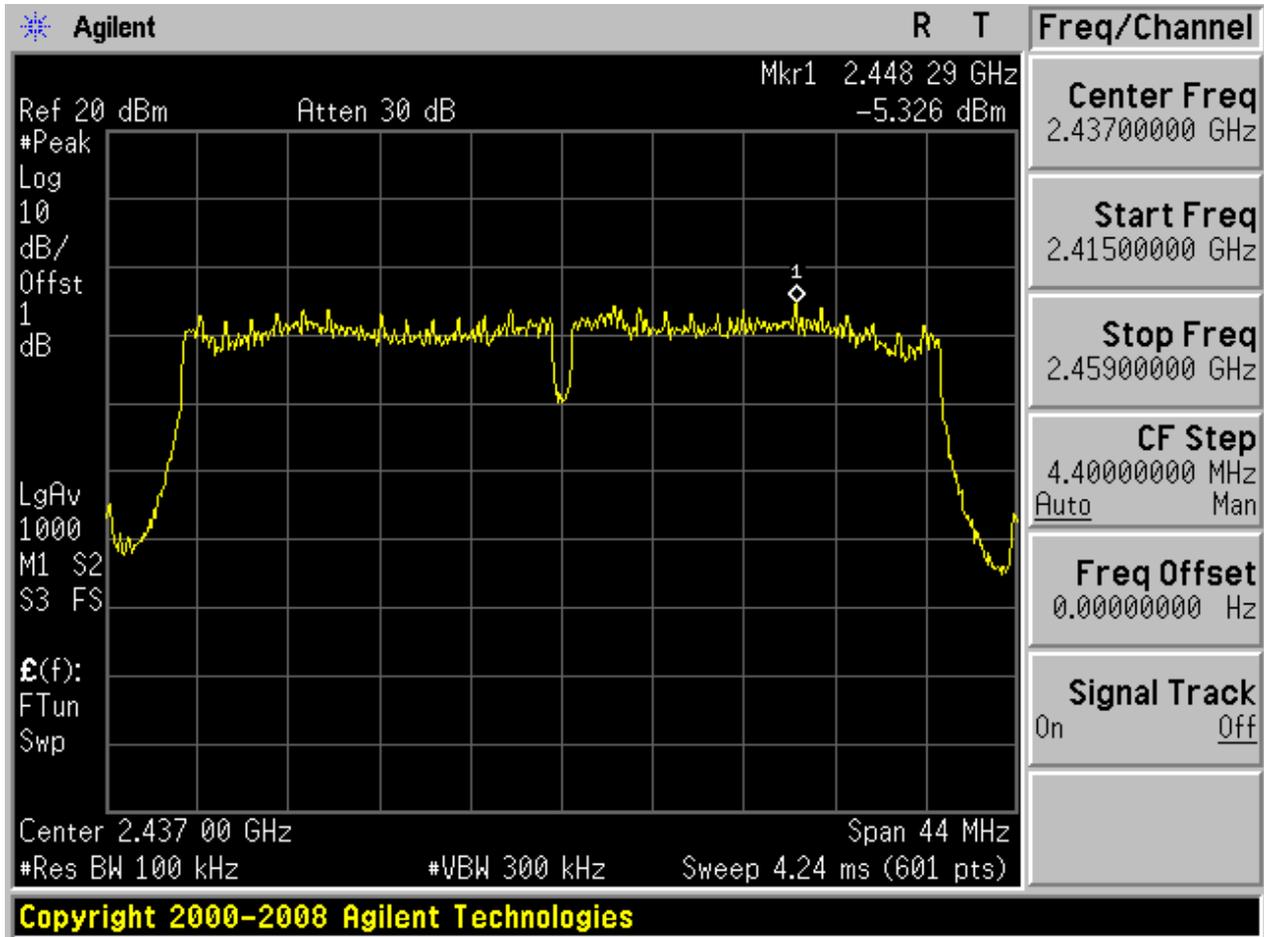




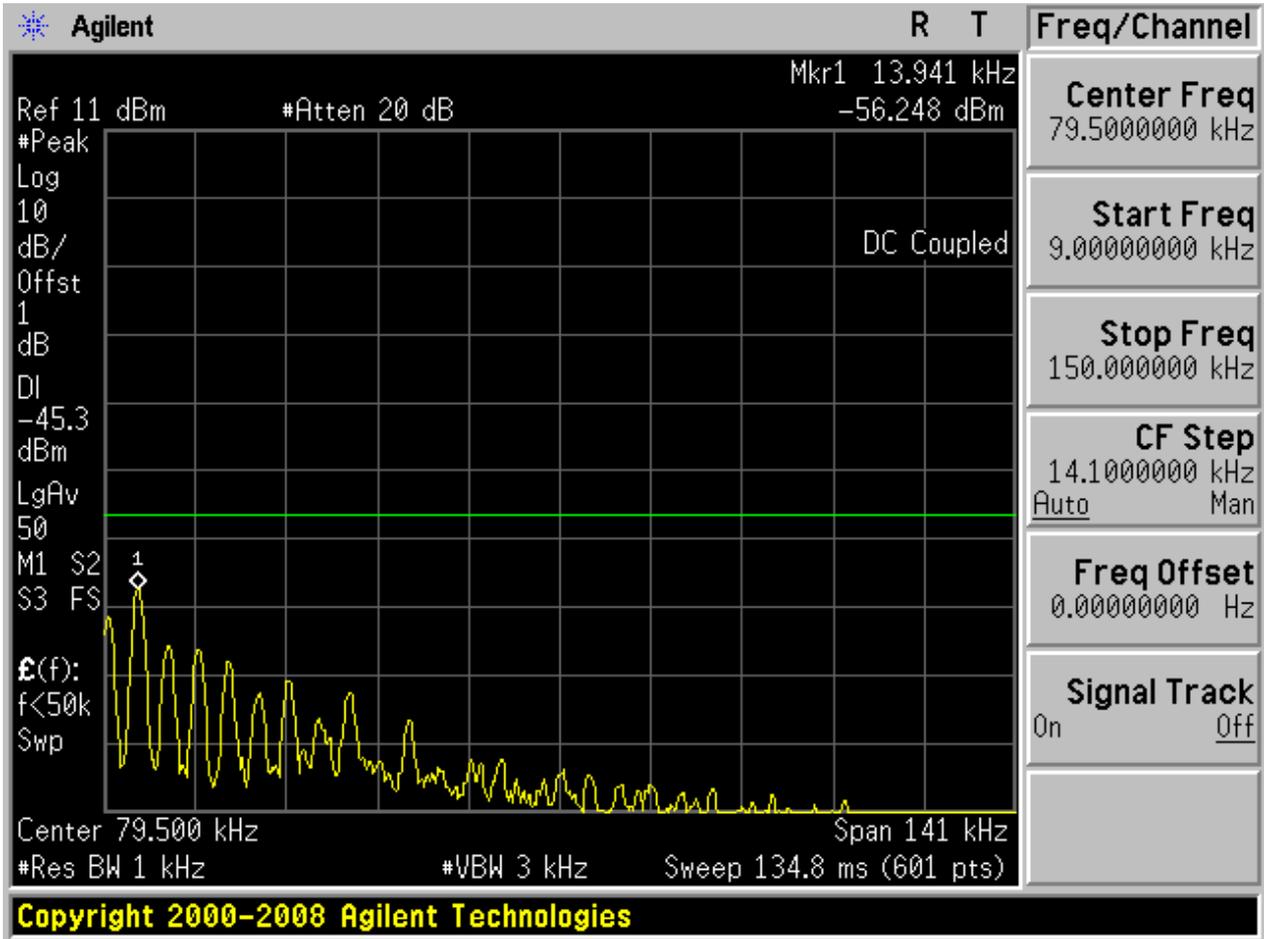


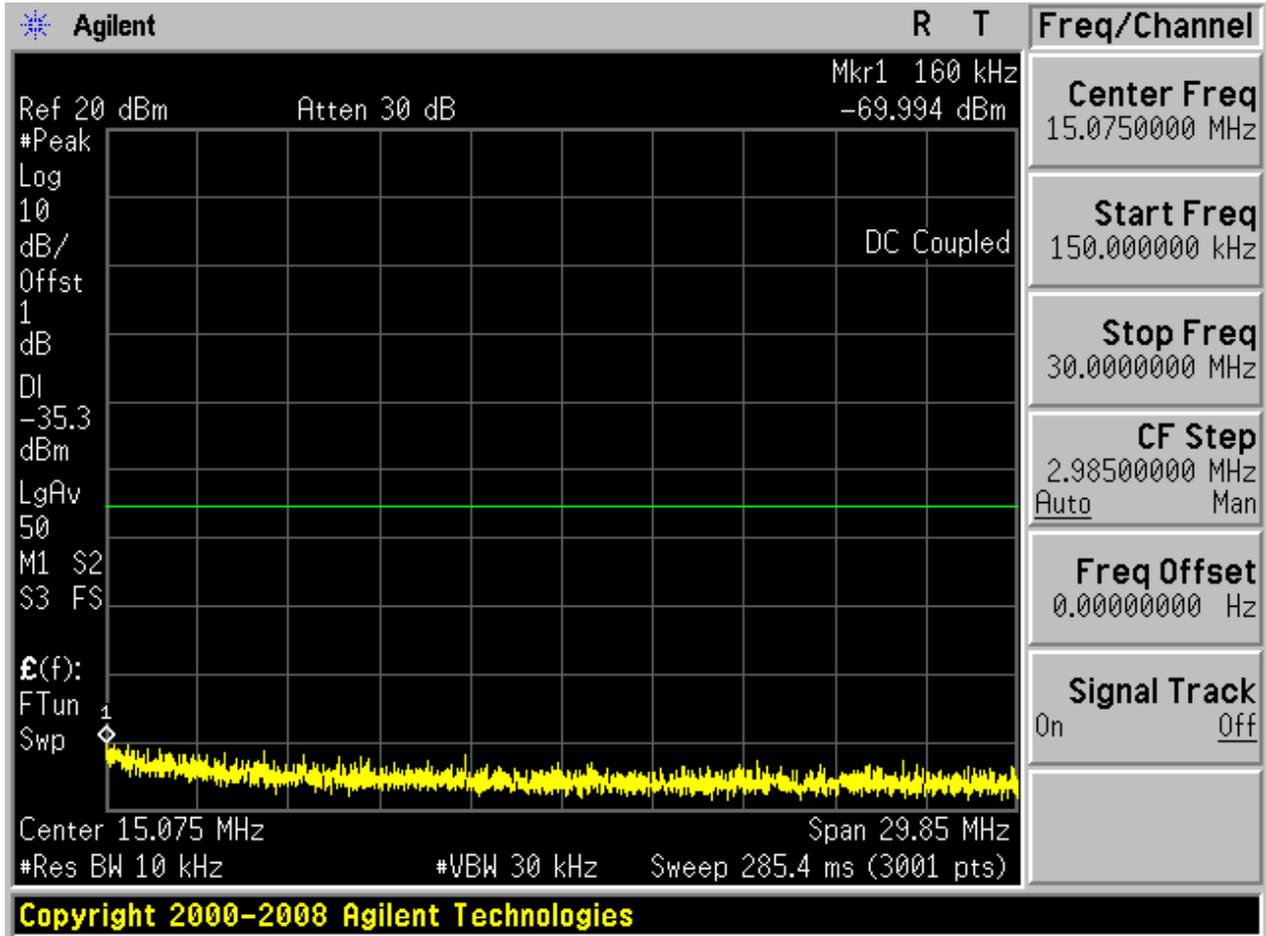
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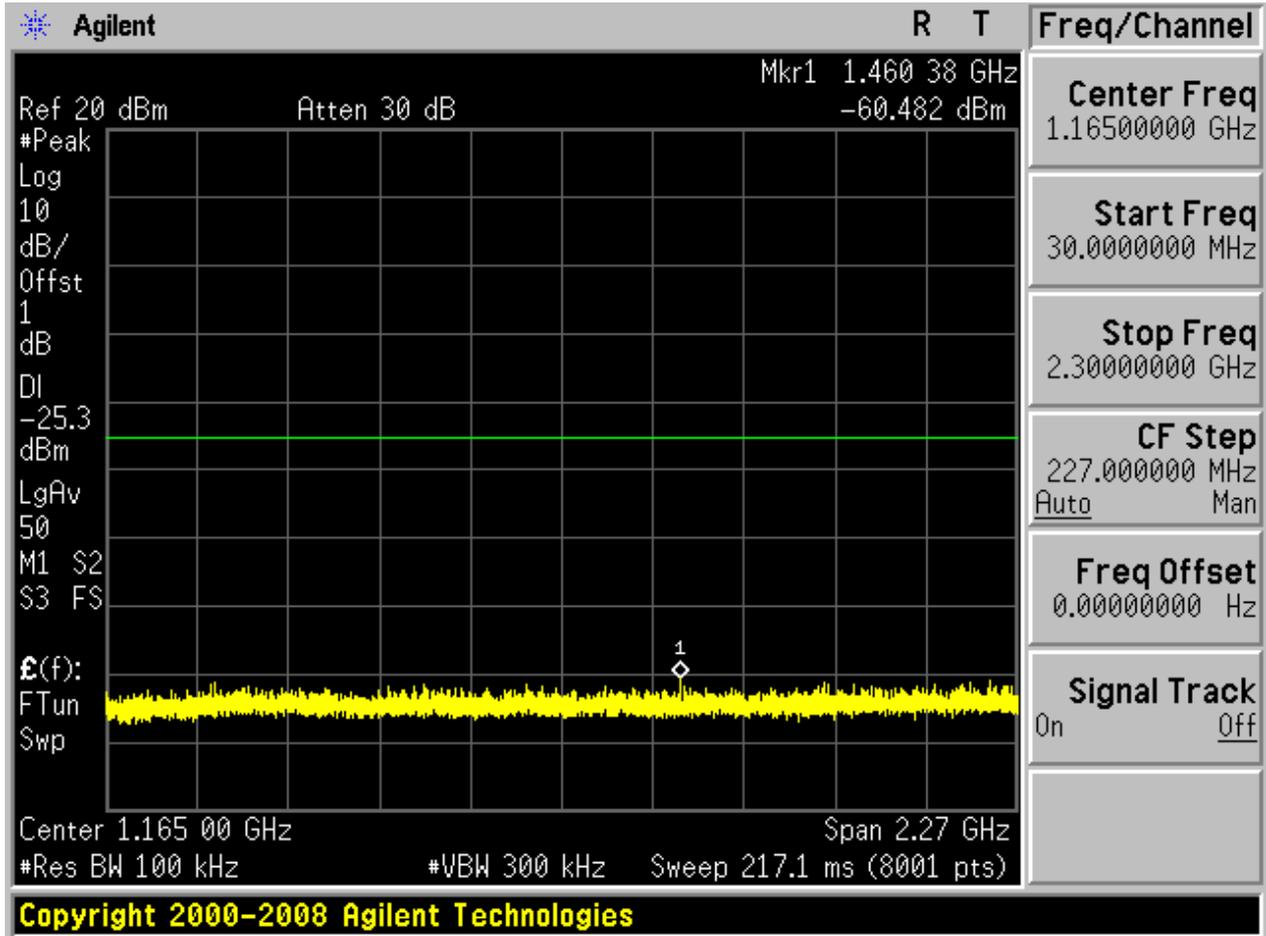
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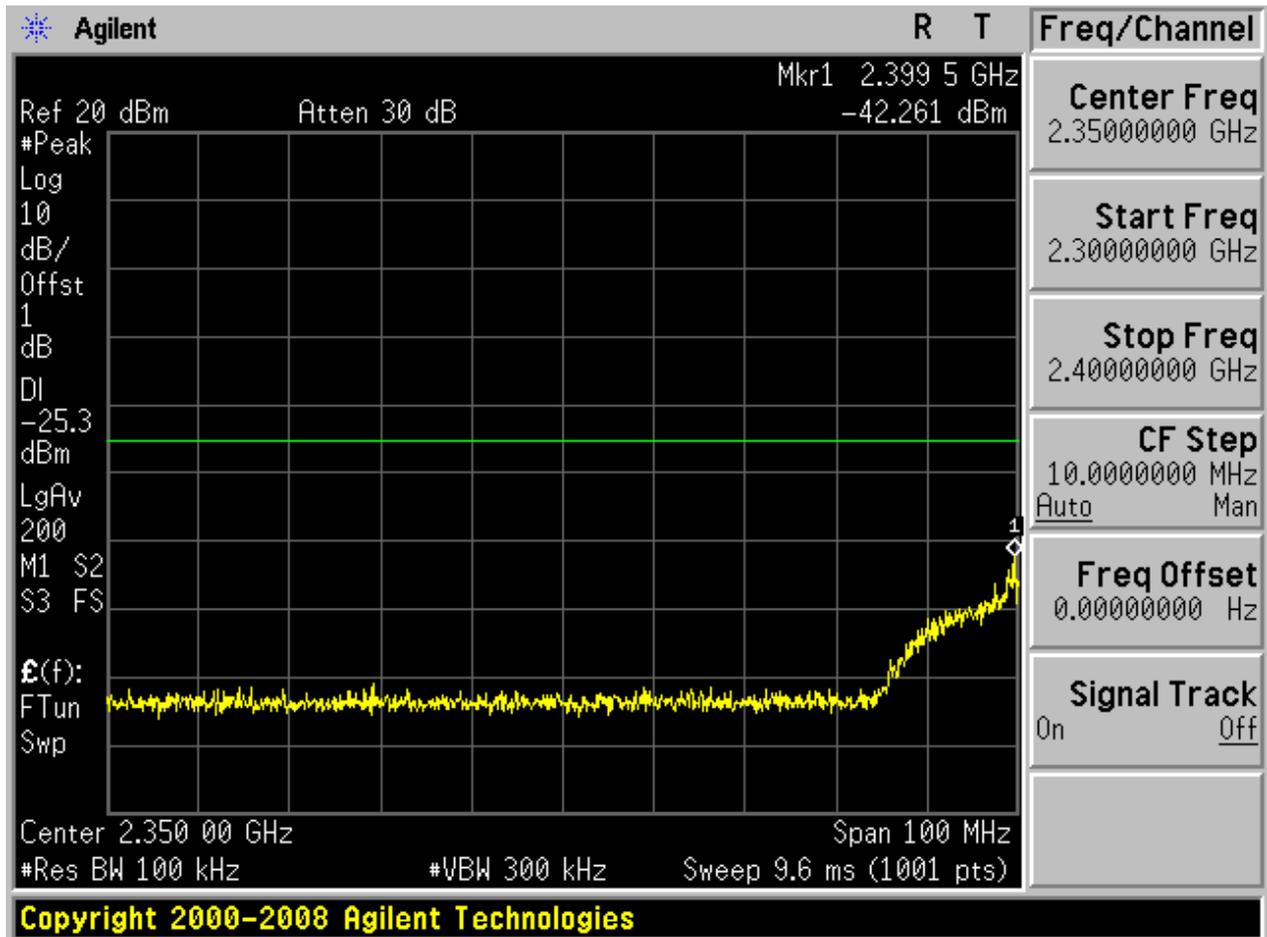


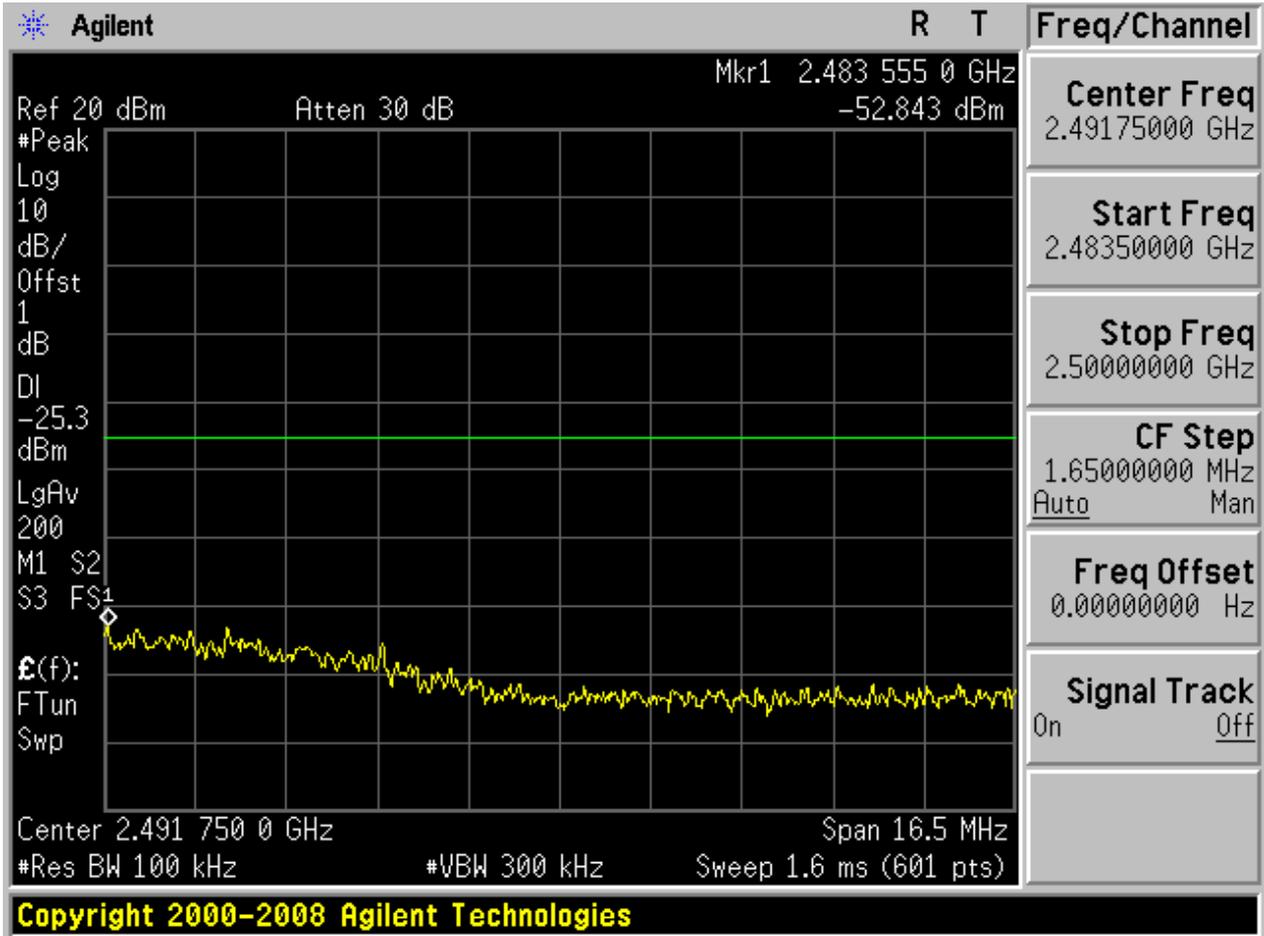
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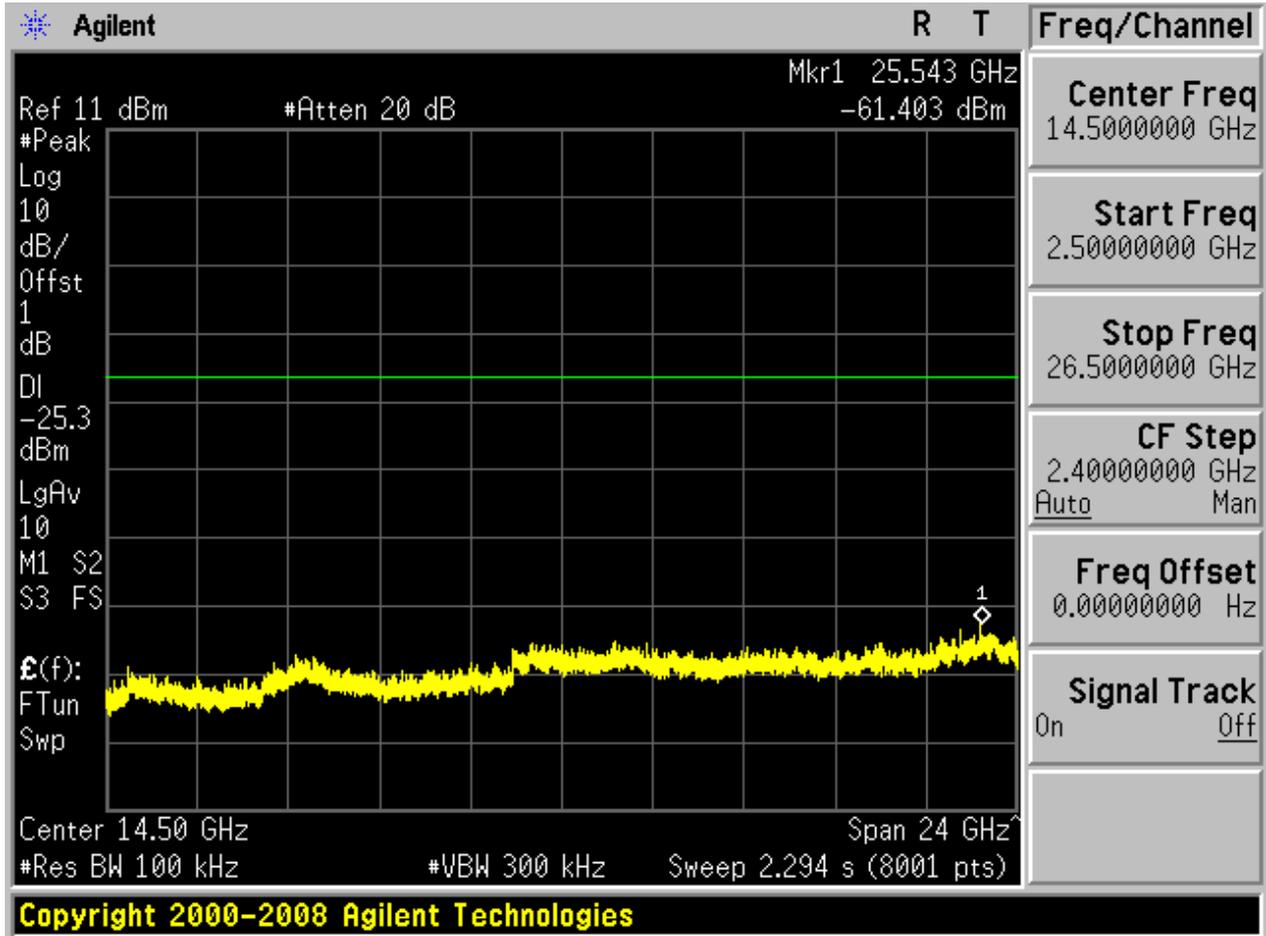






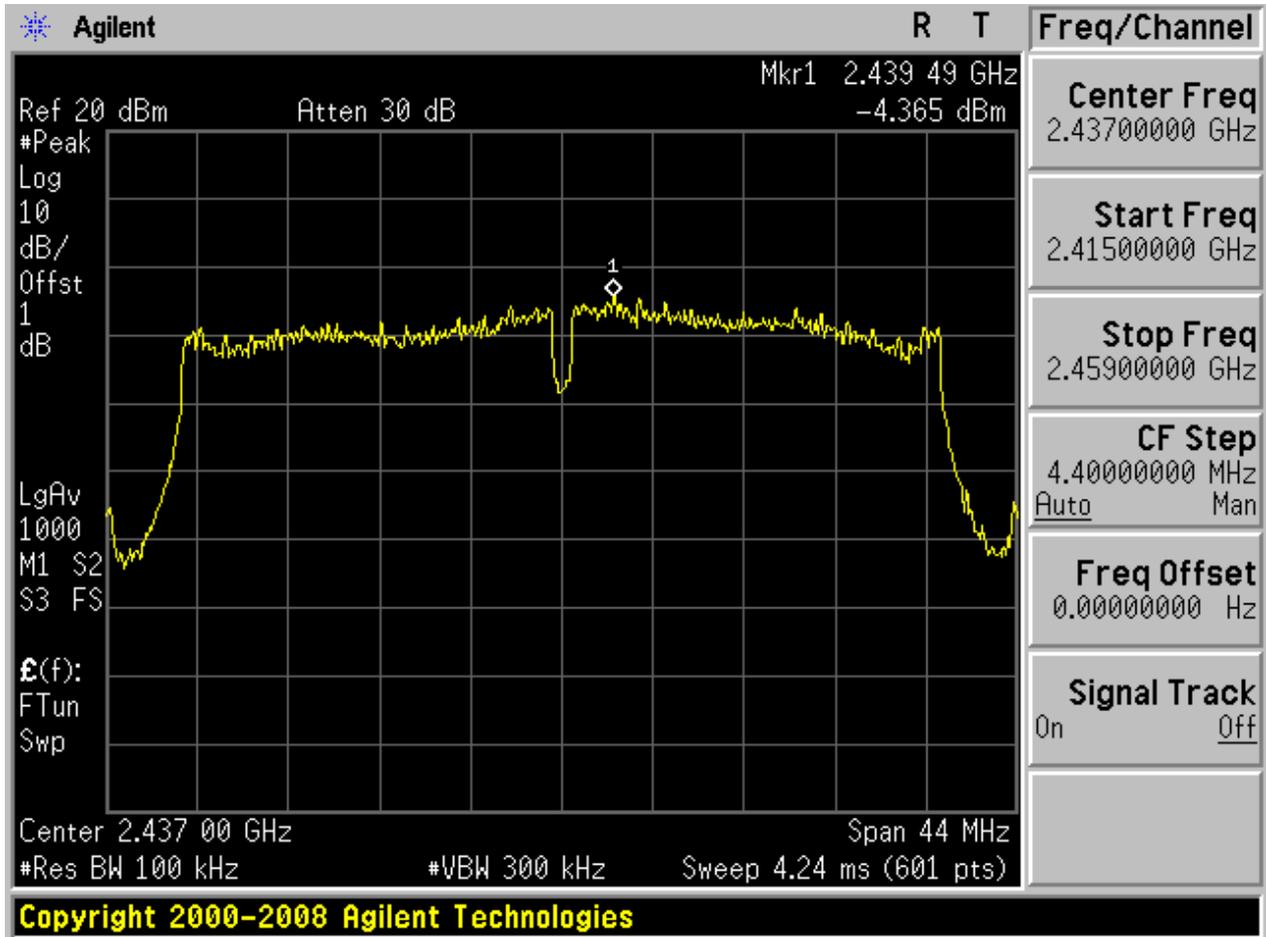




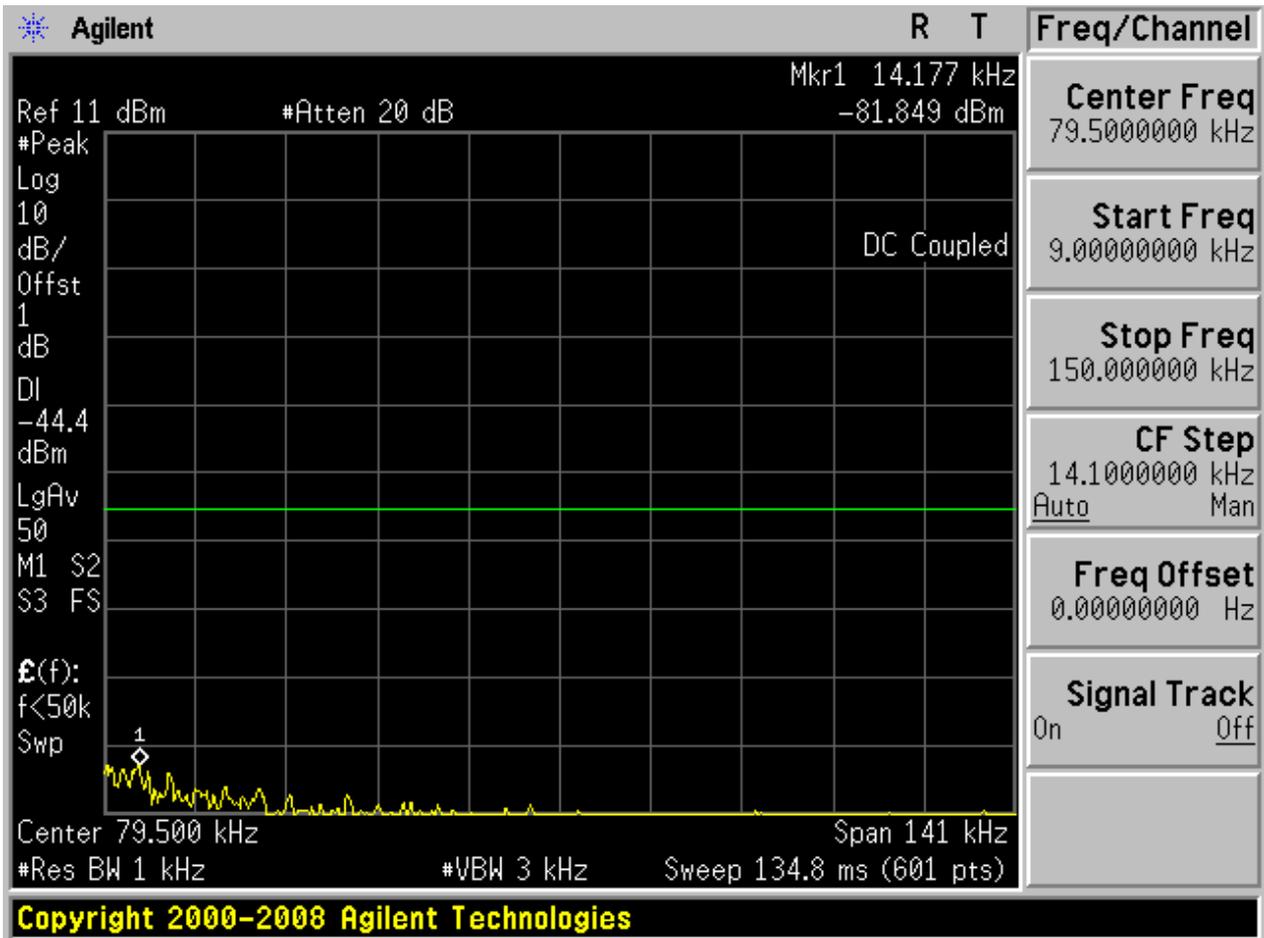


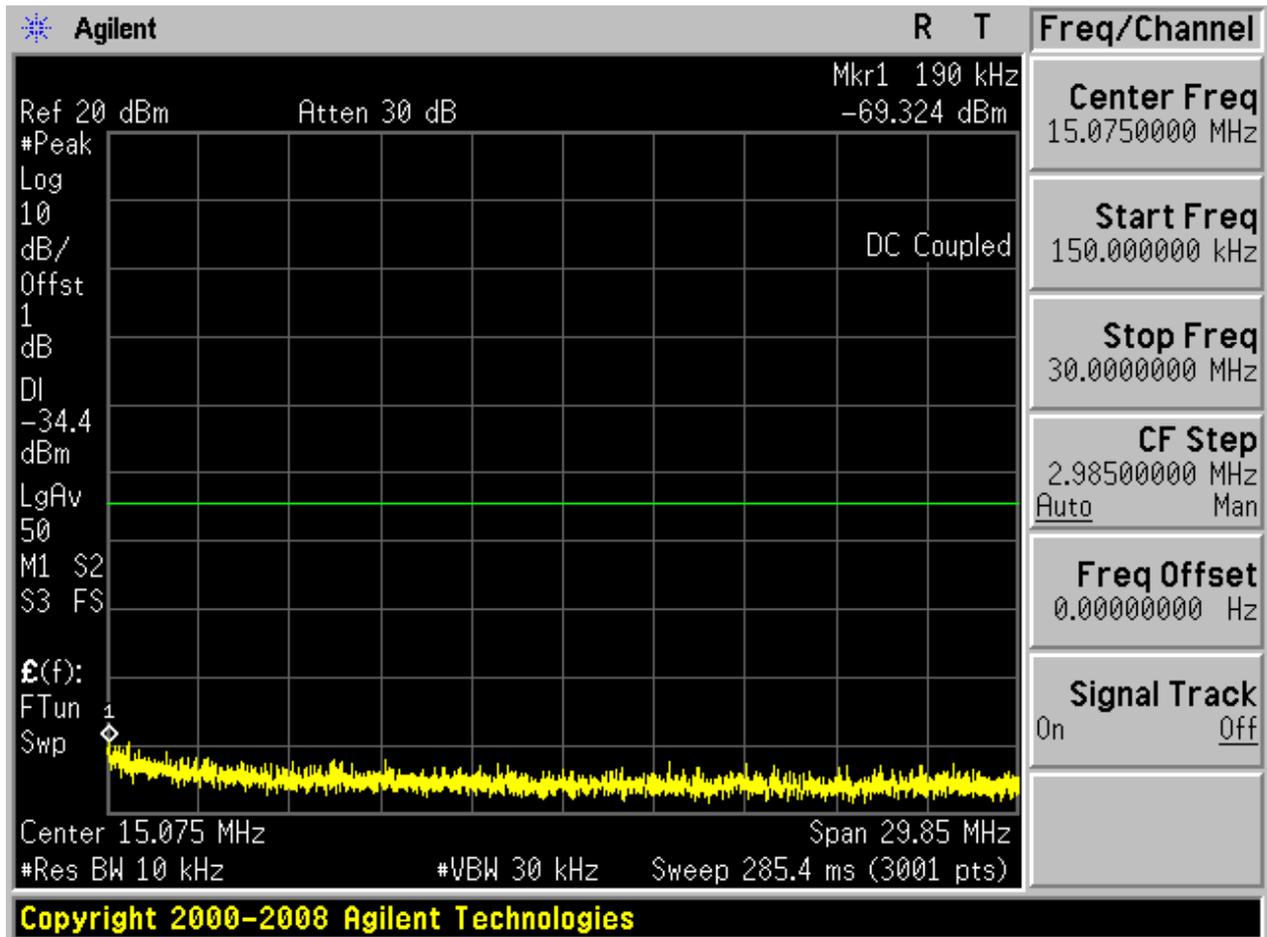
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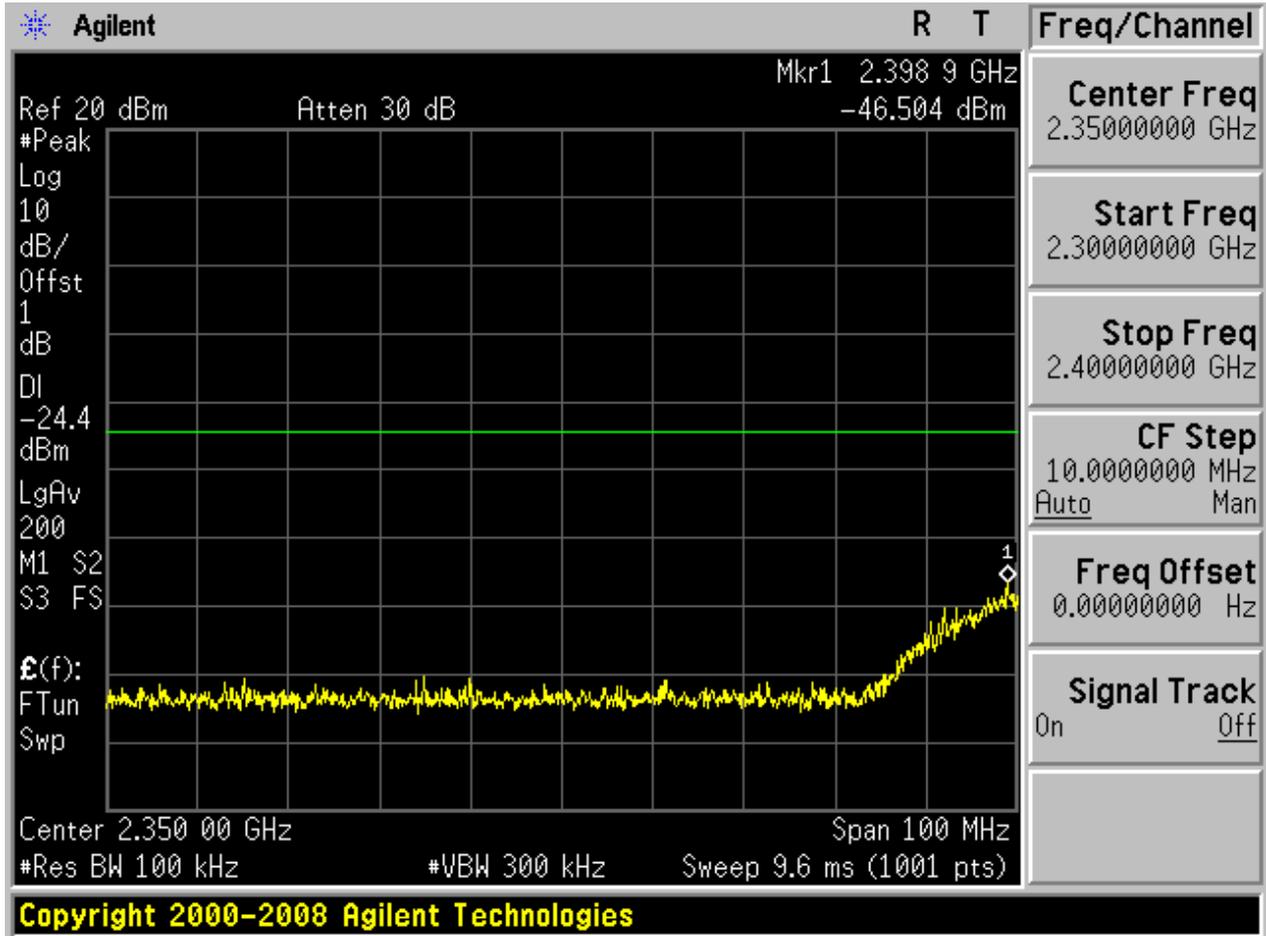
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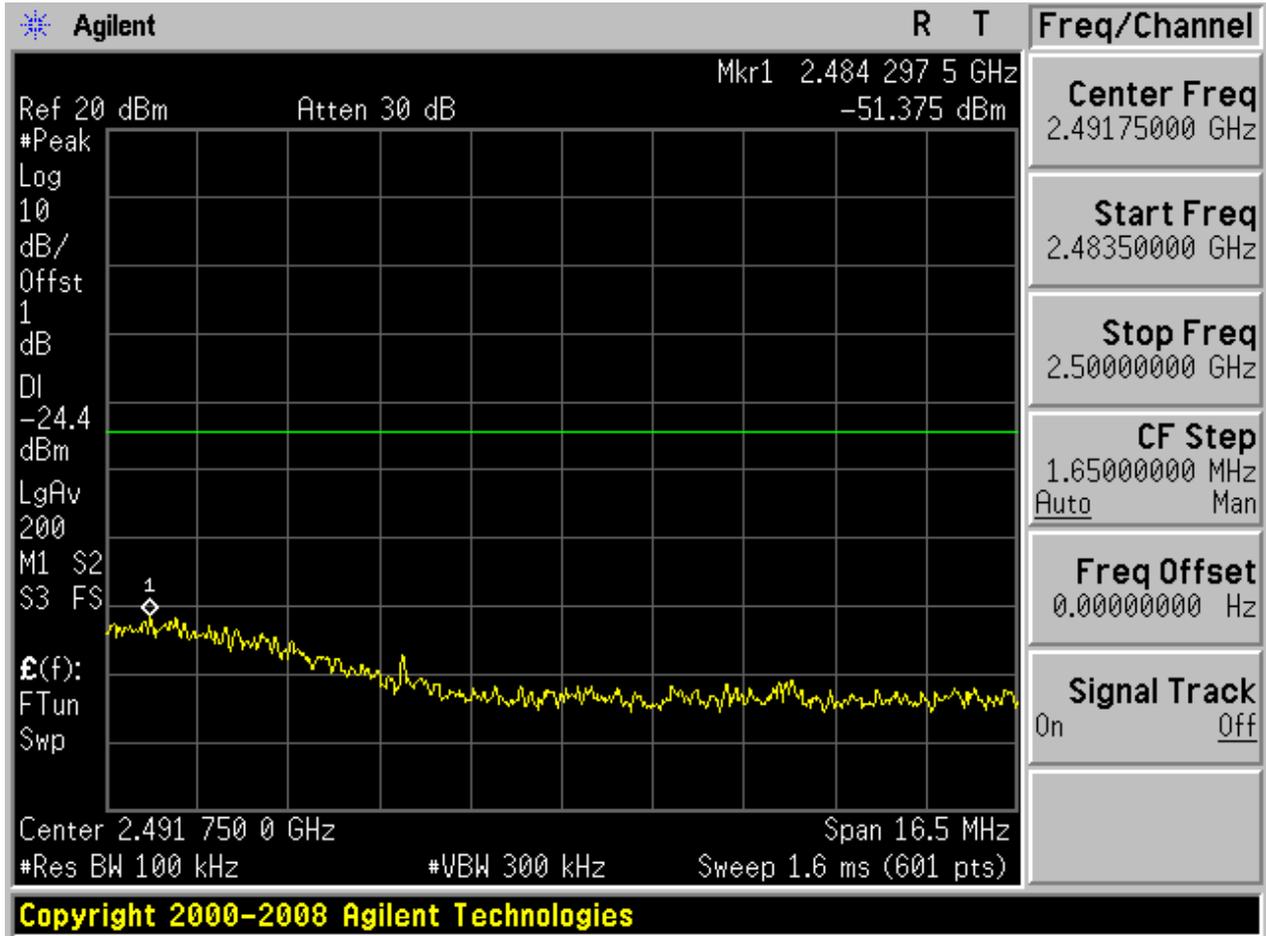


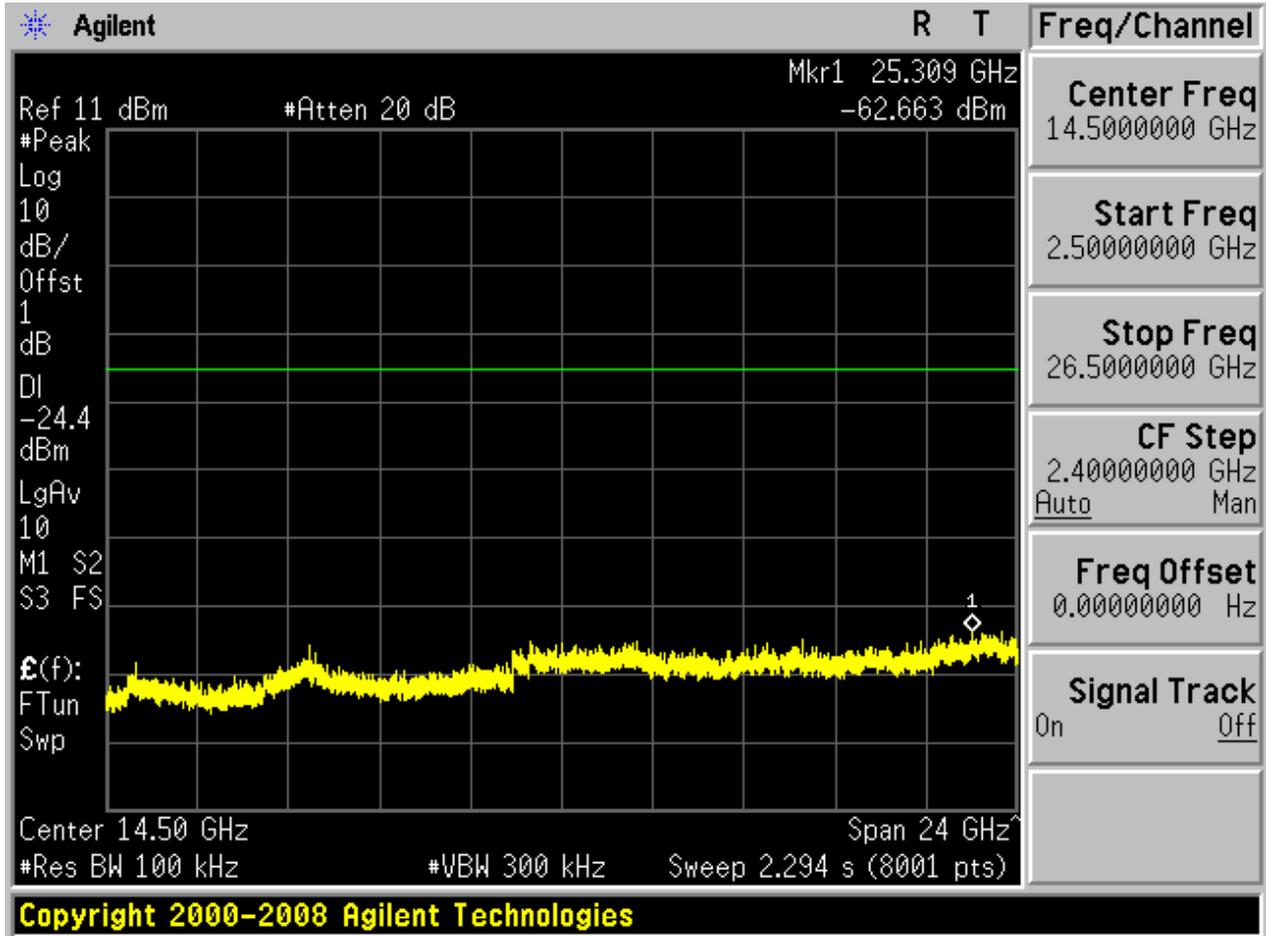
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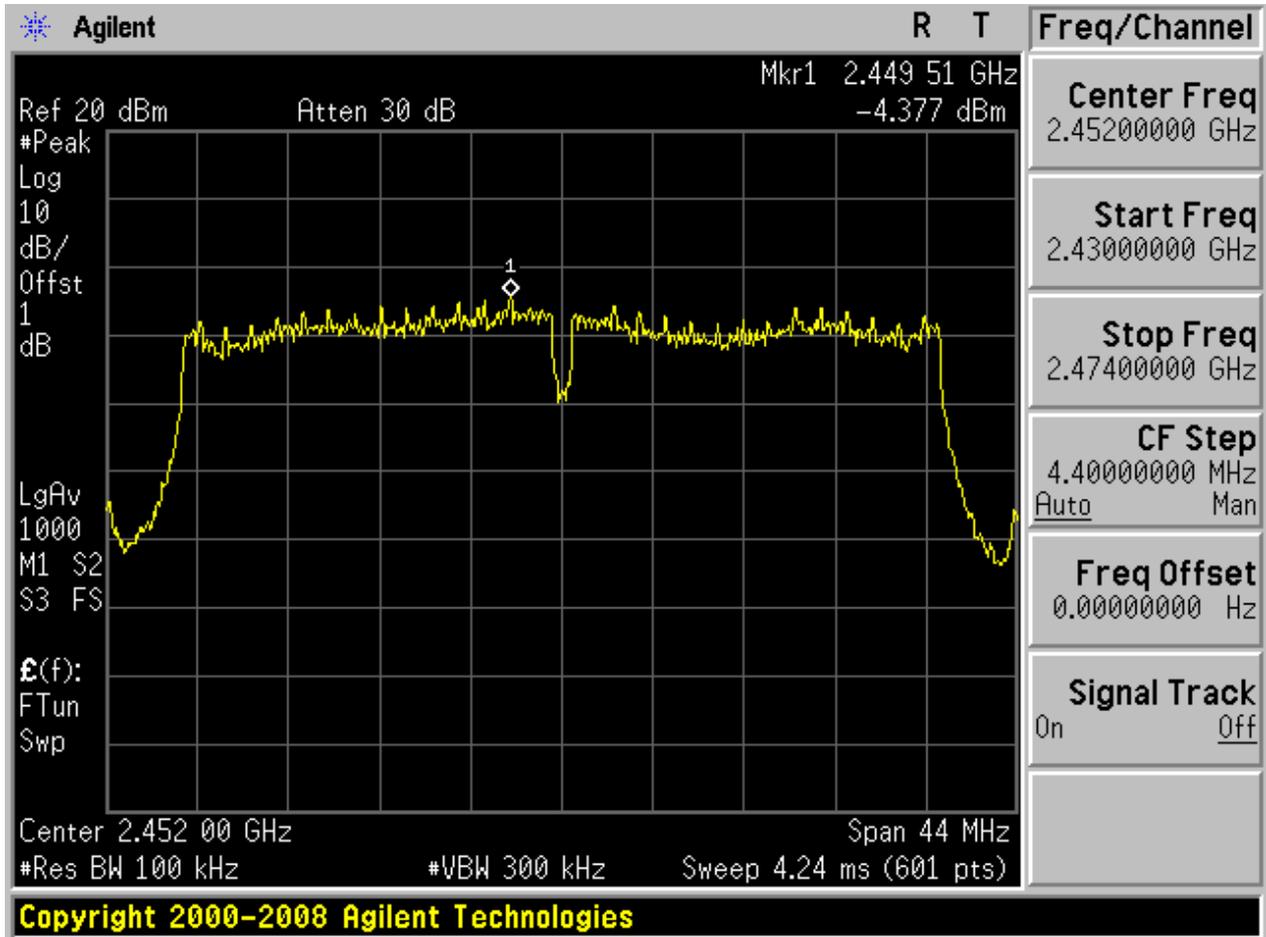




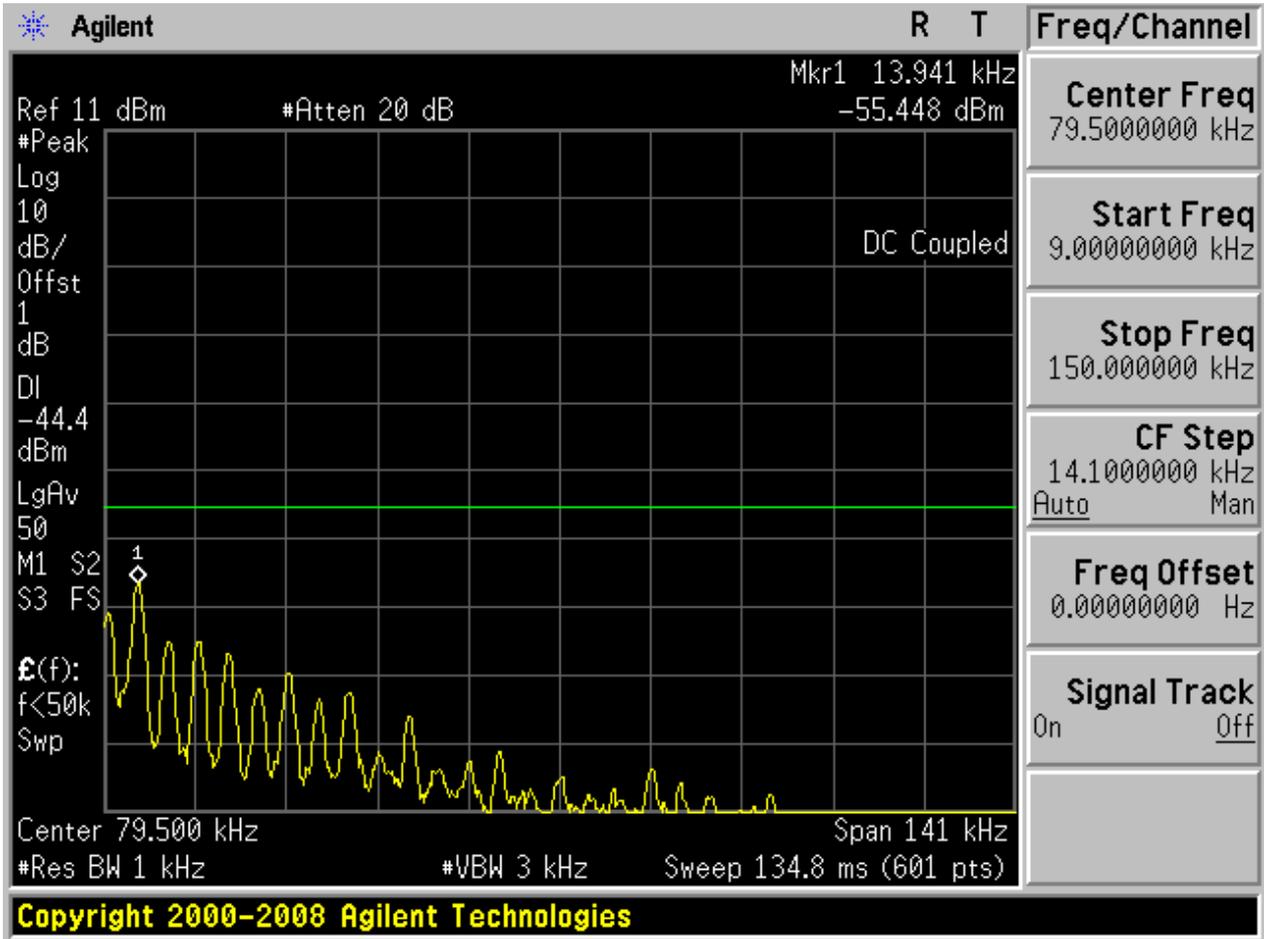


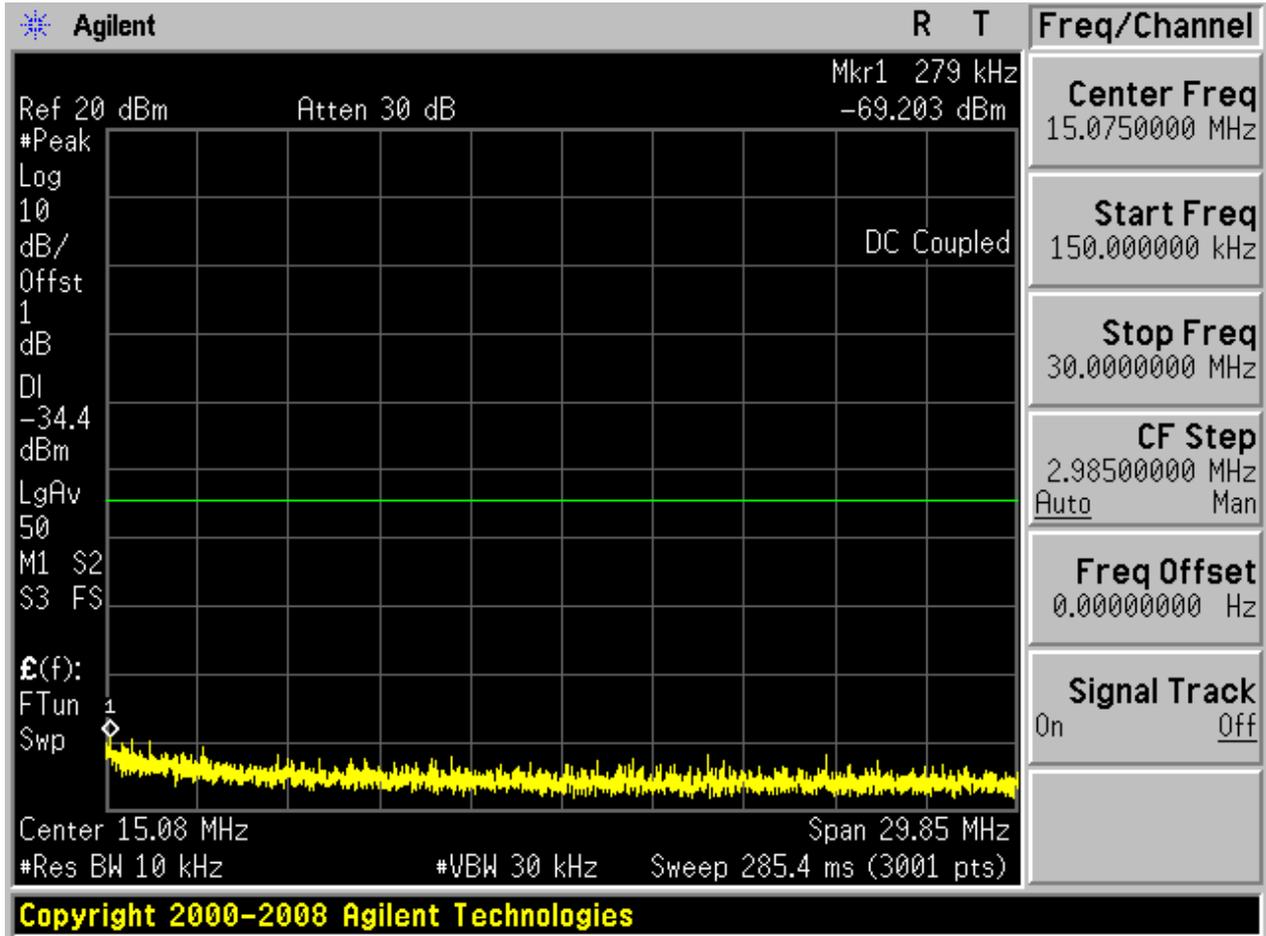
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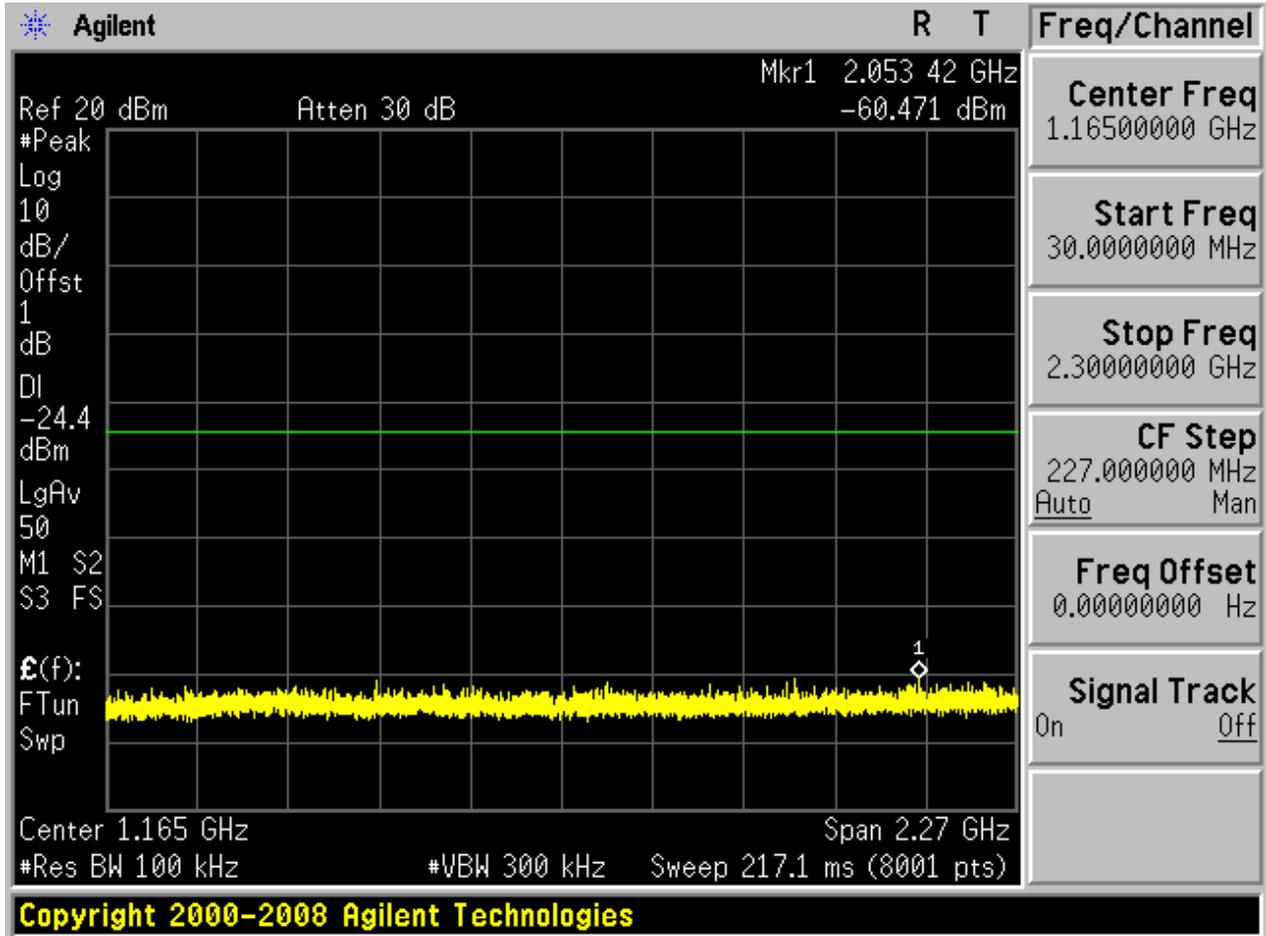
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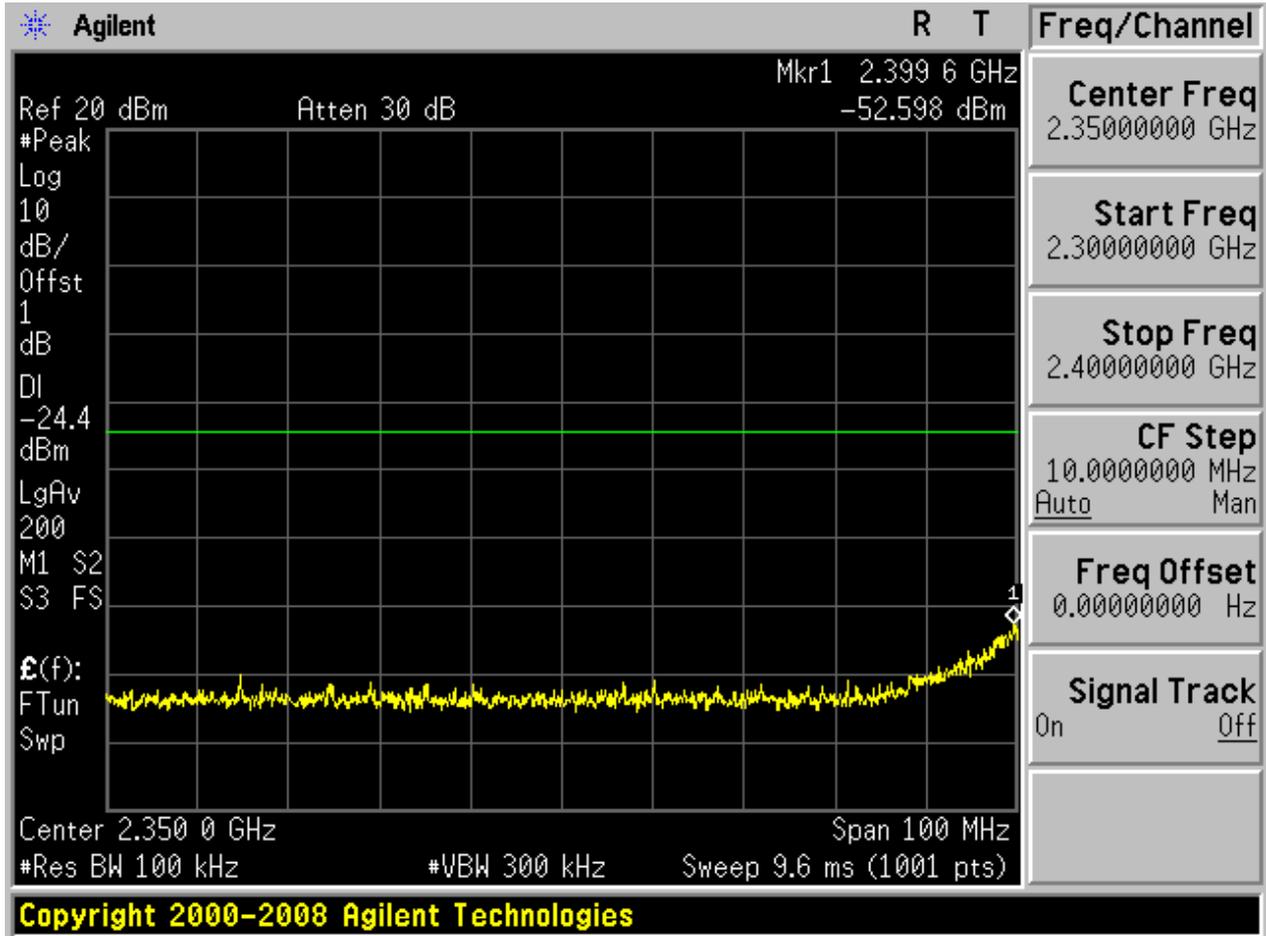


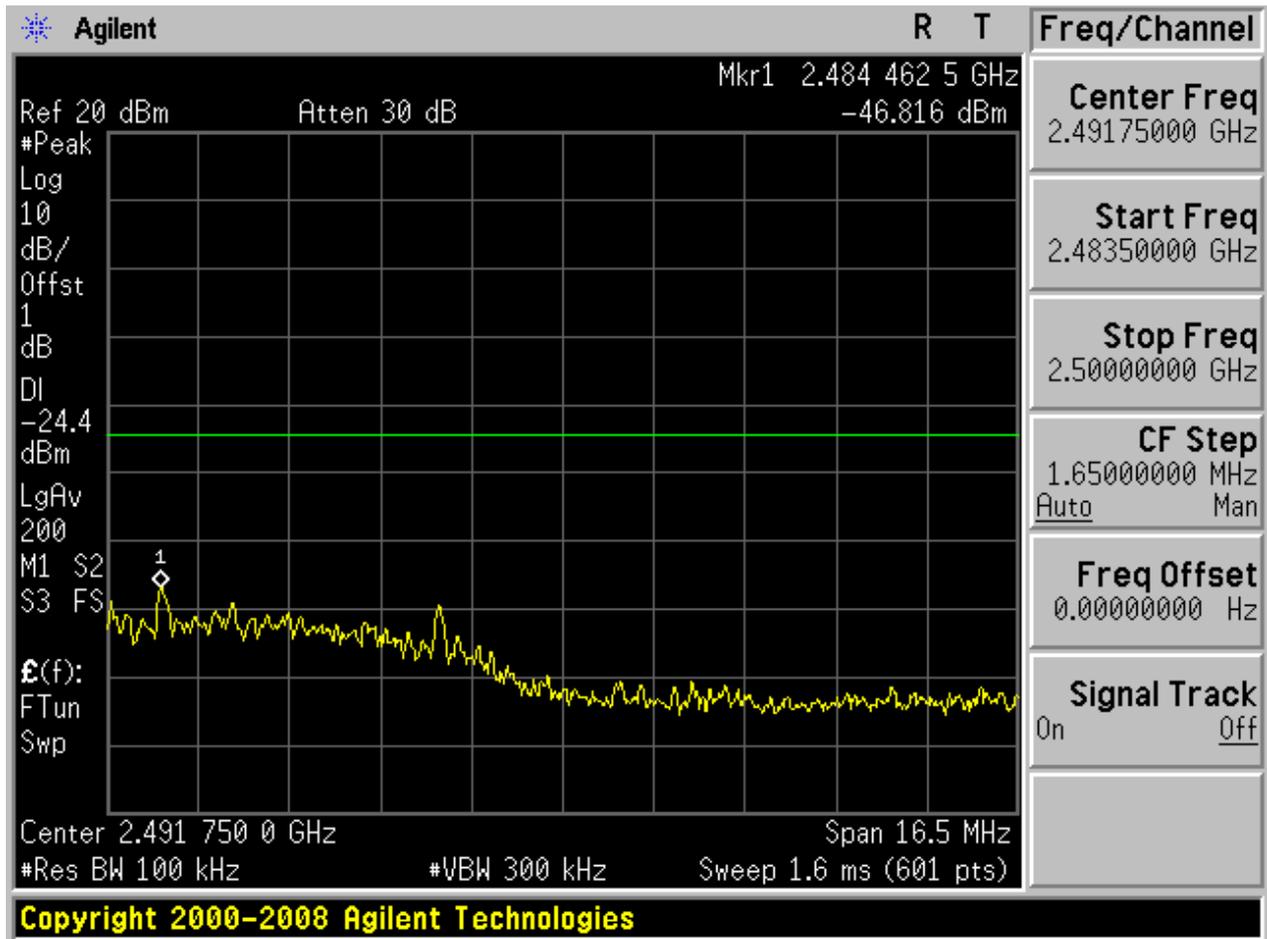
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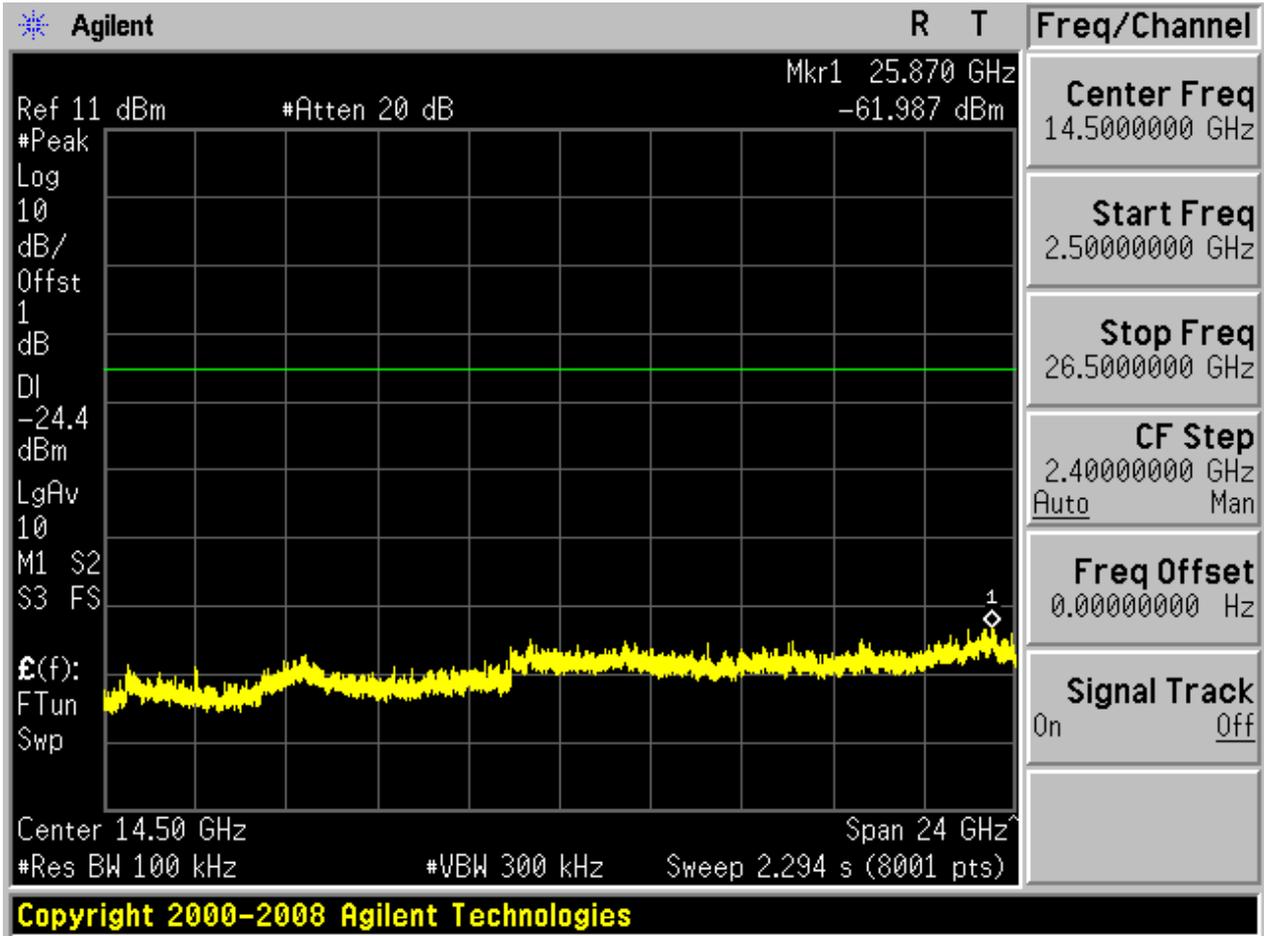






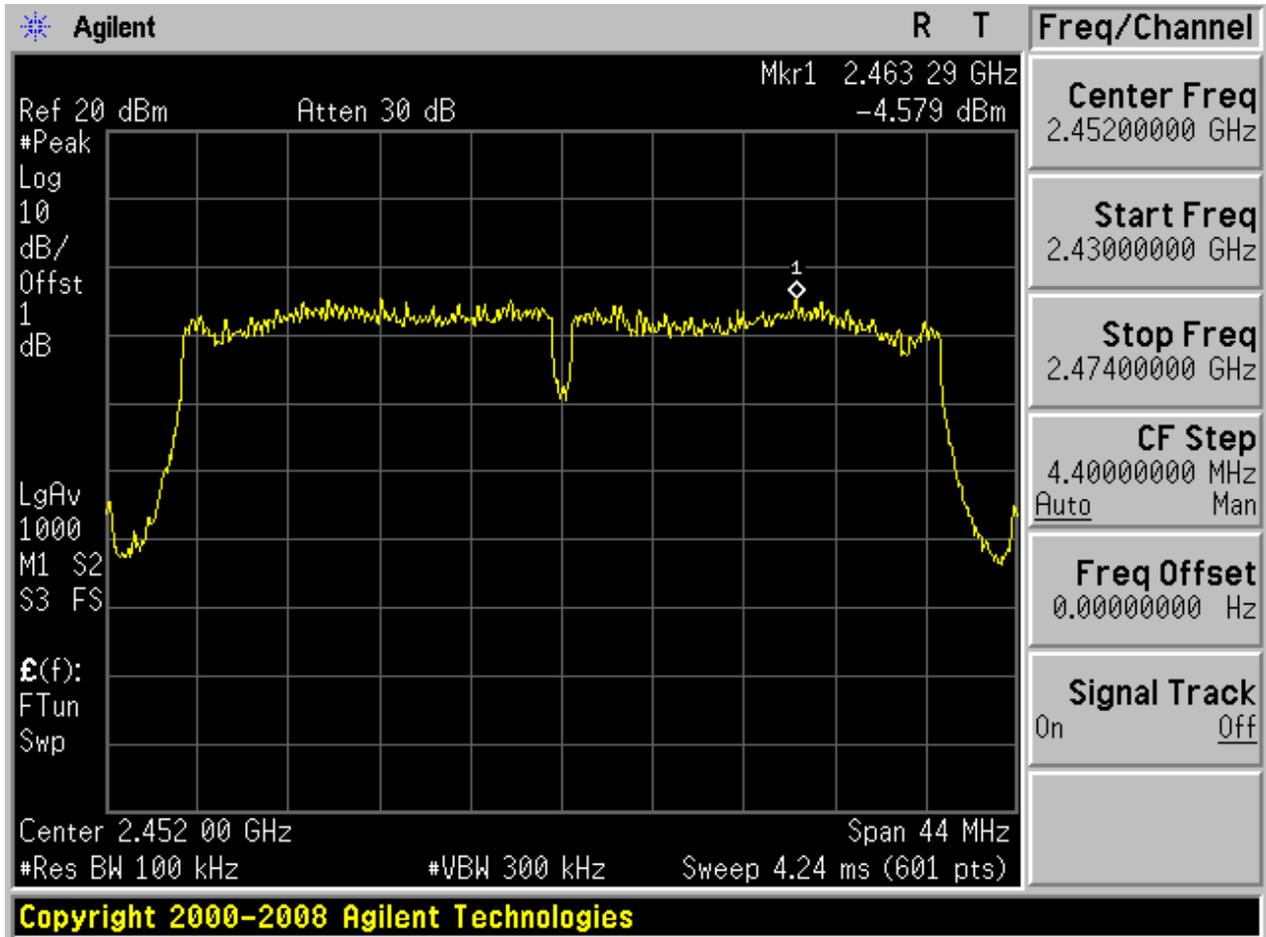




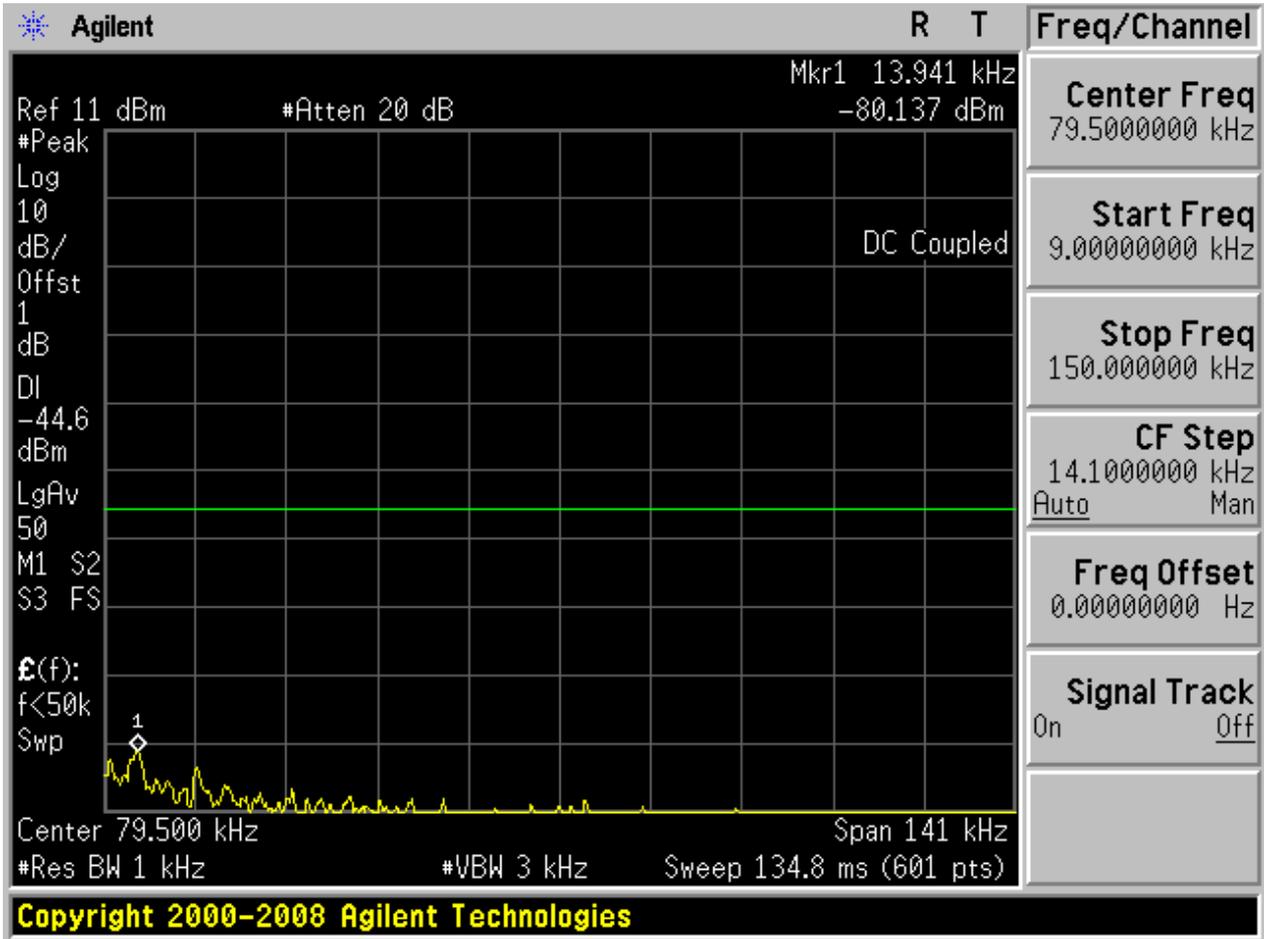


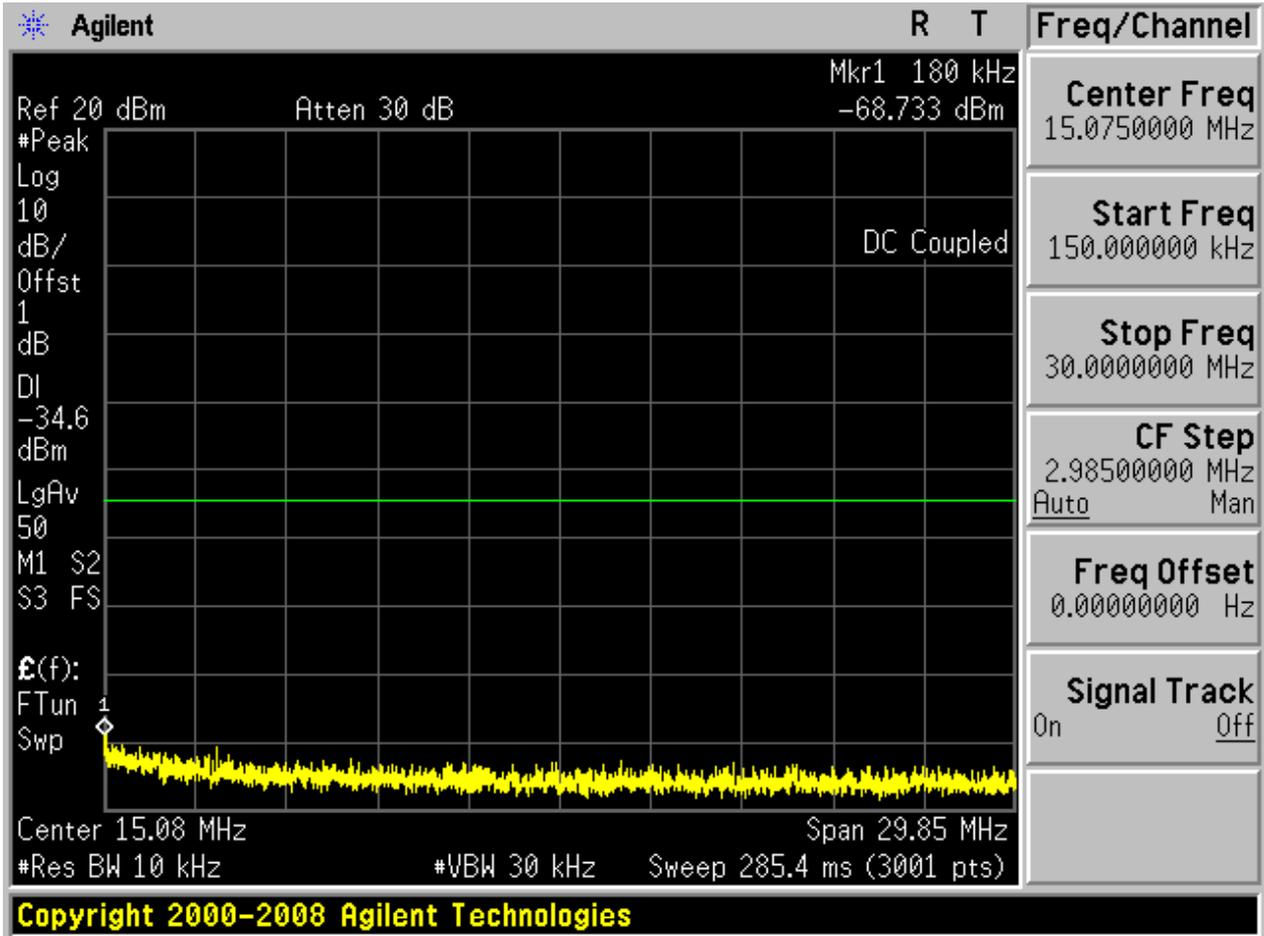
2.30 11N40_H@Ant 2

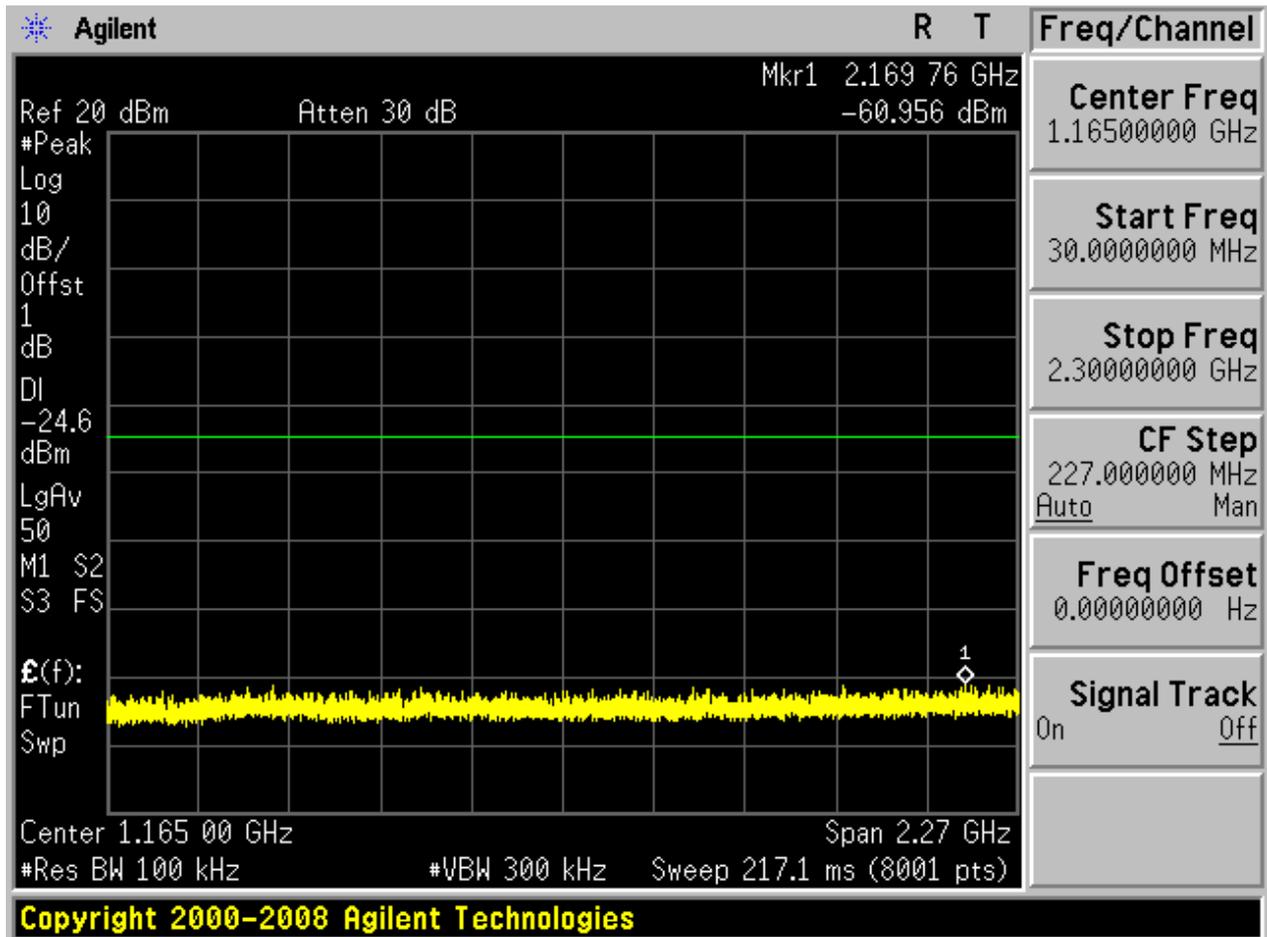
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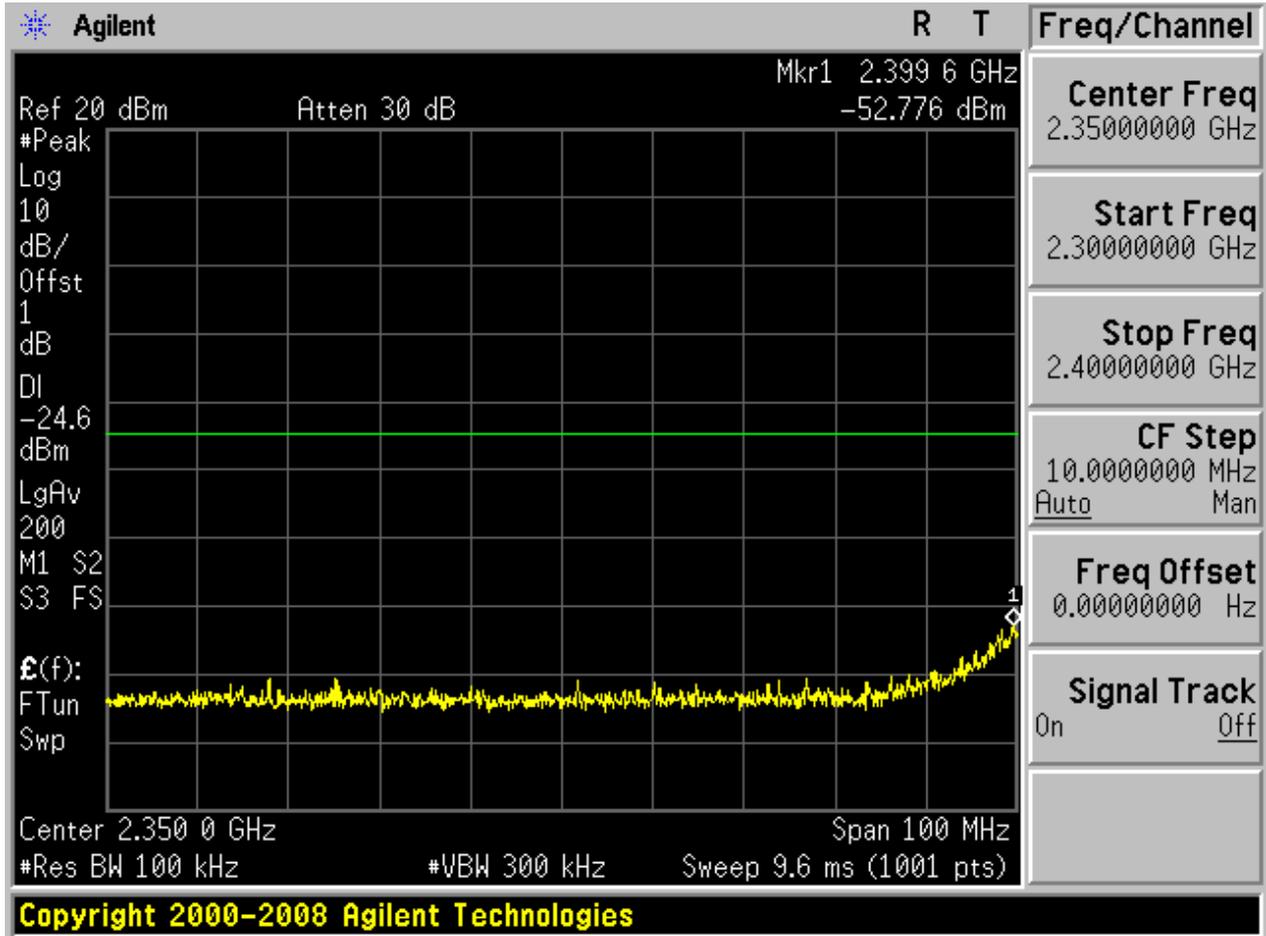


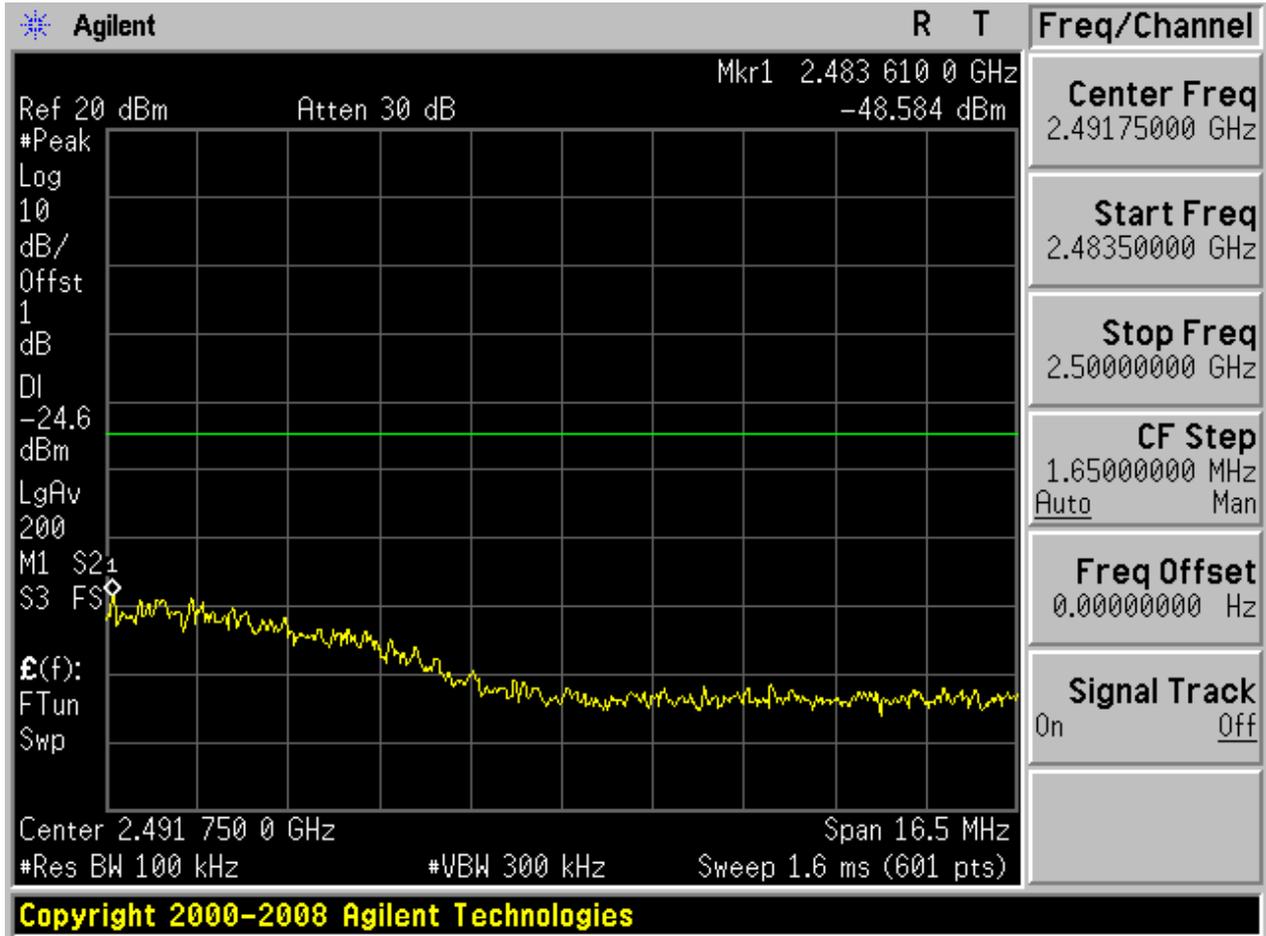
Puw:

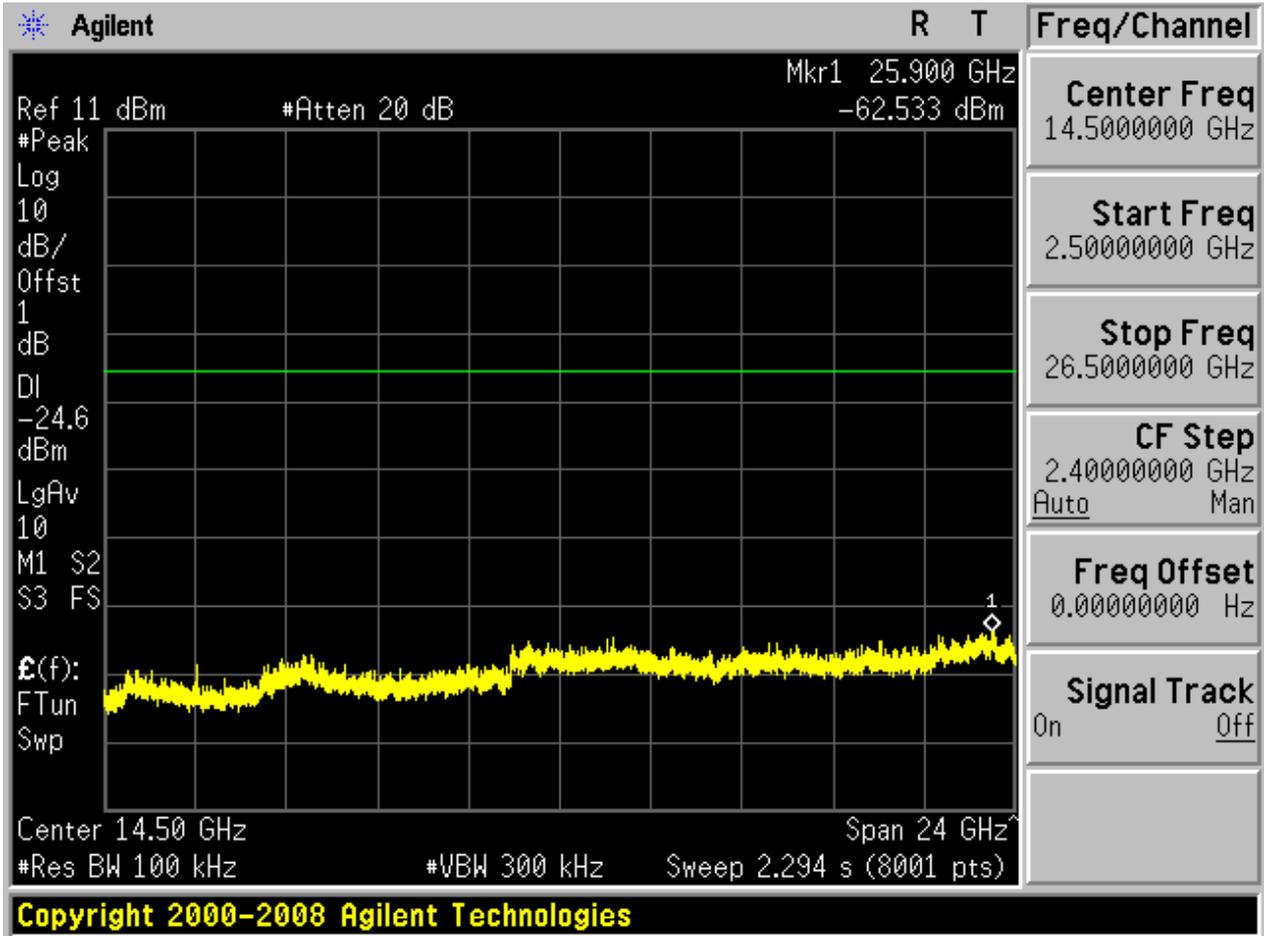






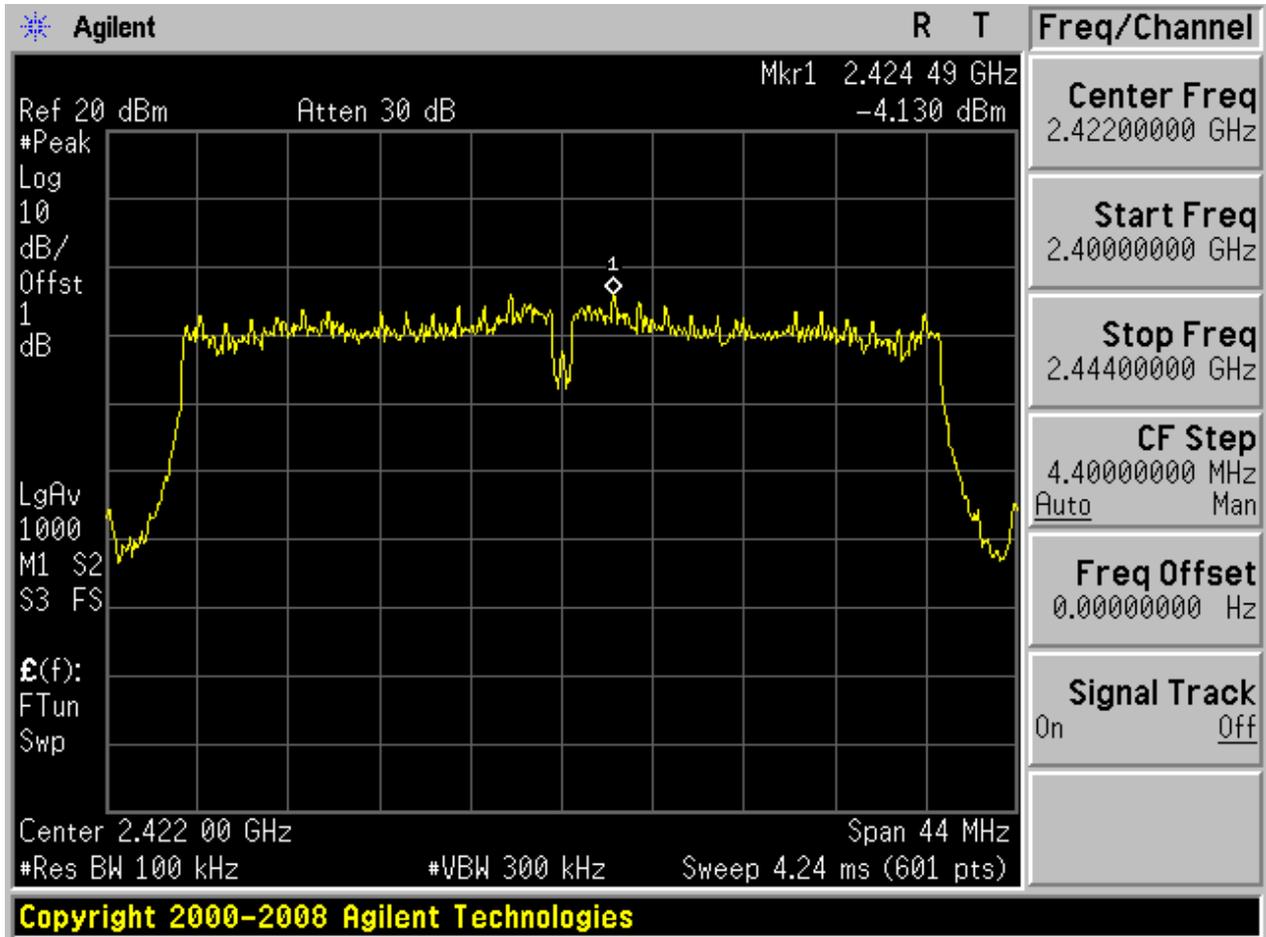




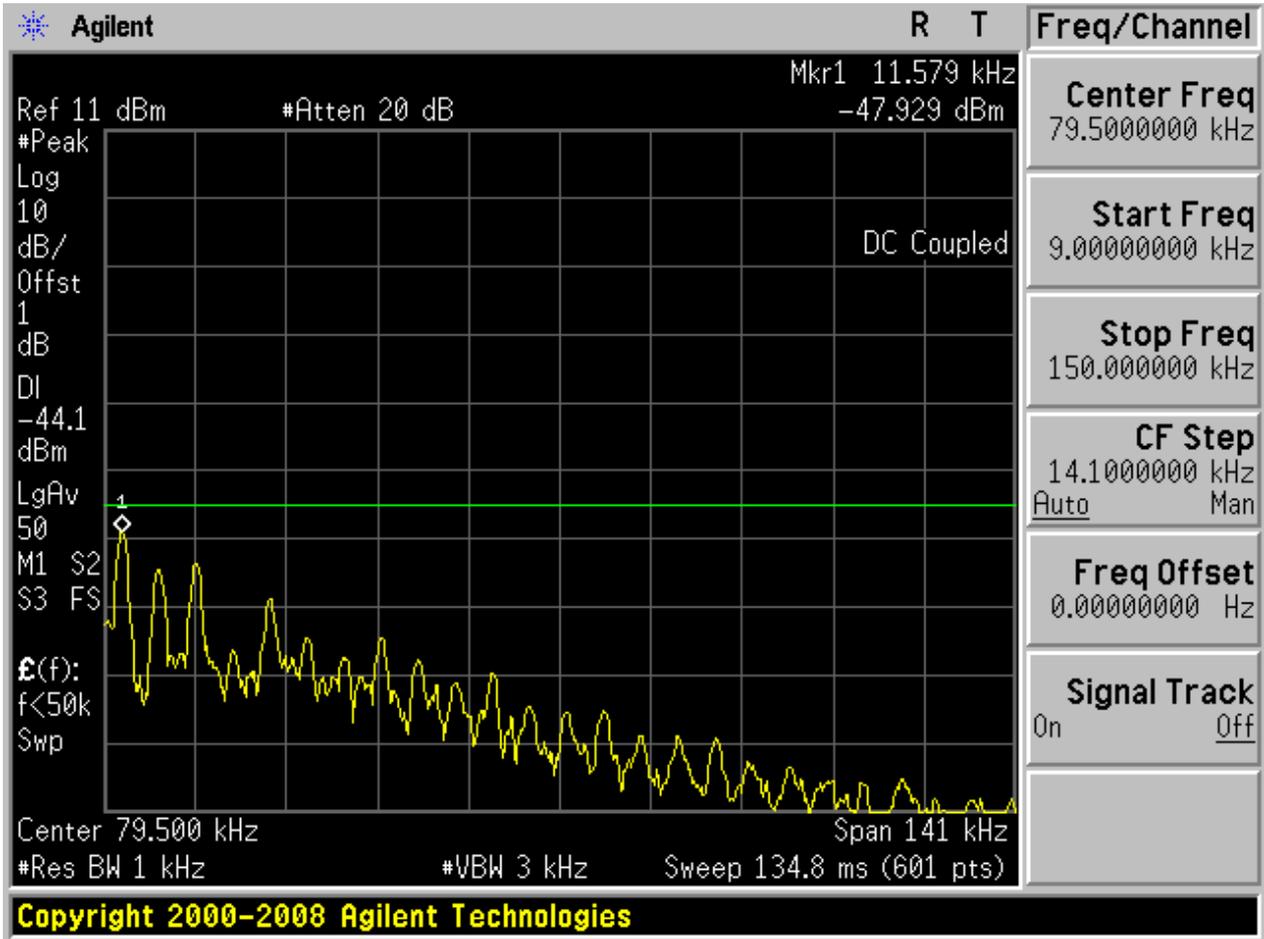


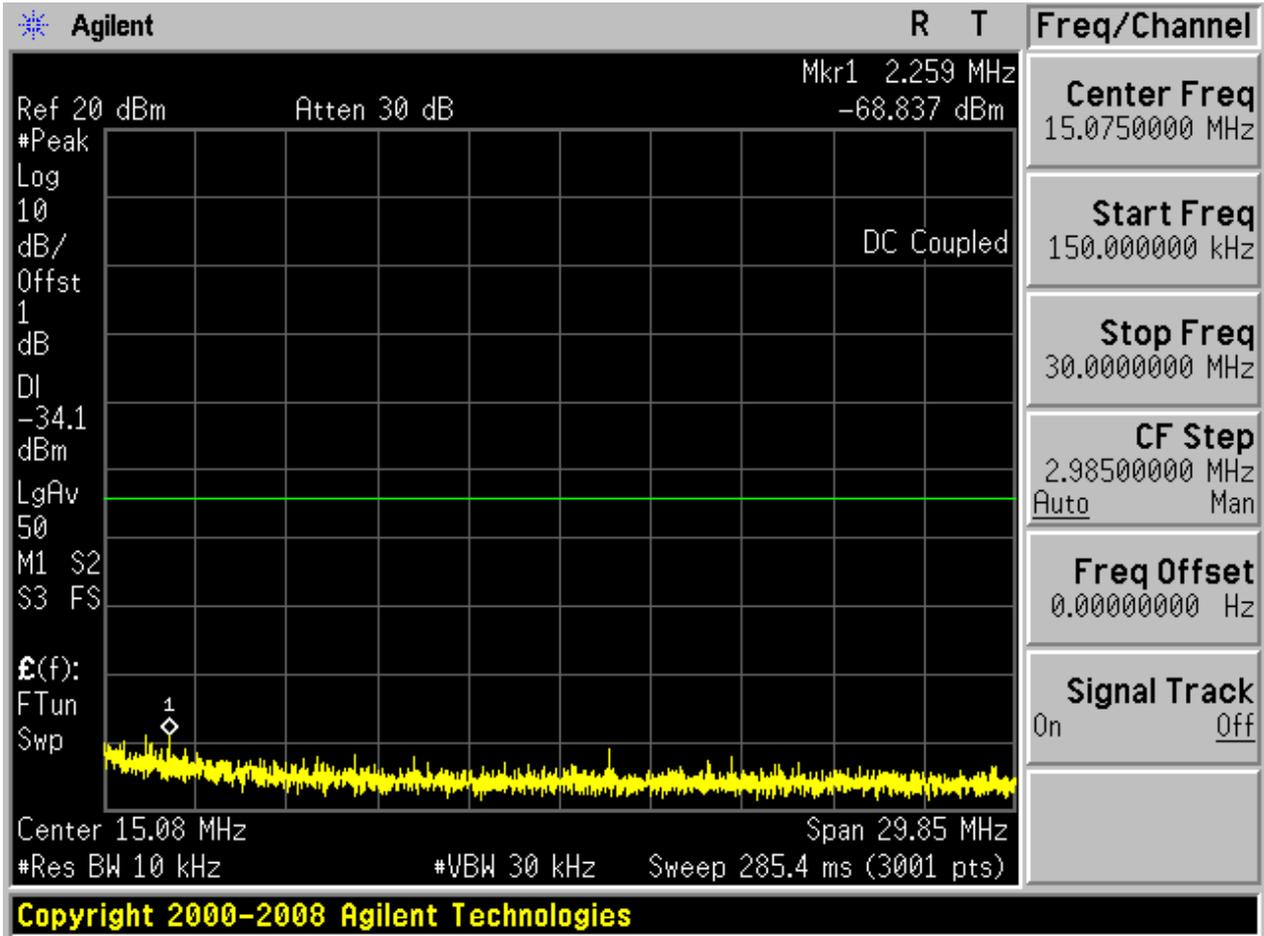
2.31 11N40m_L@Ant 1

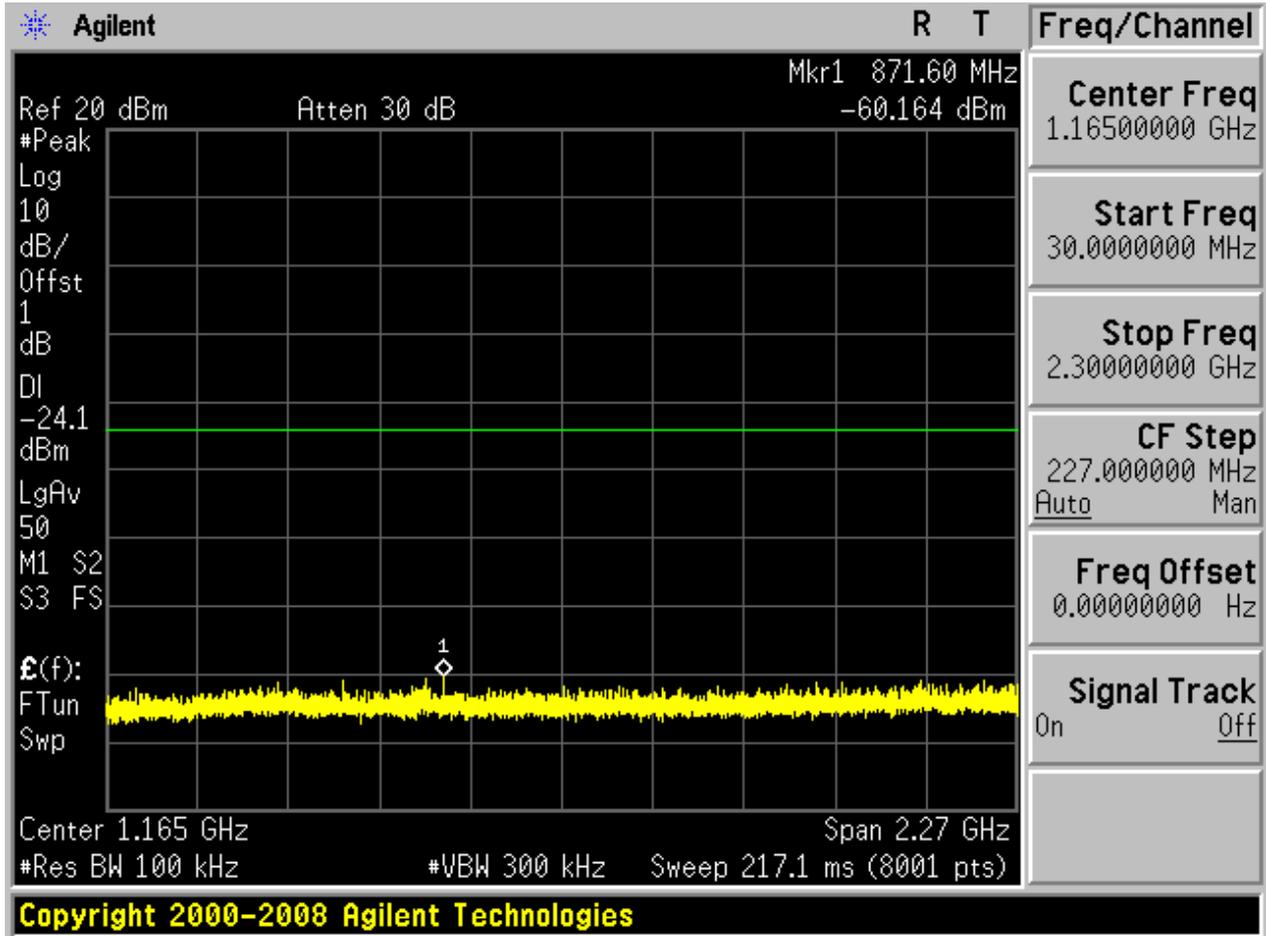
Pref:

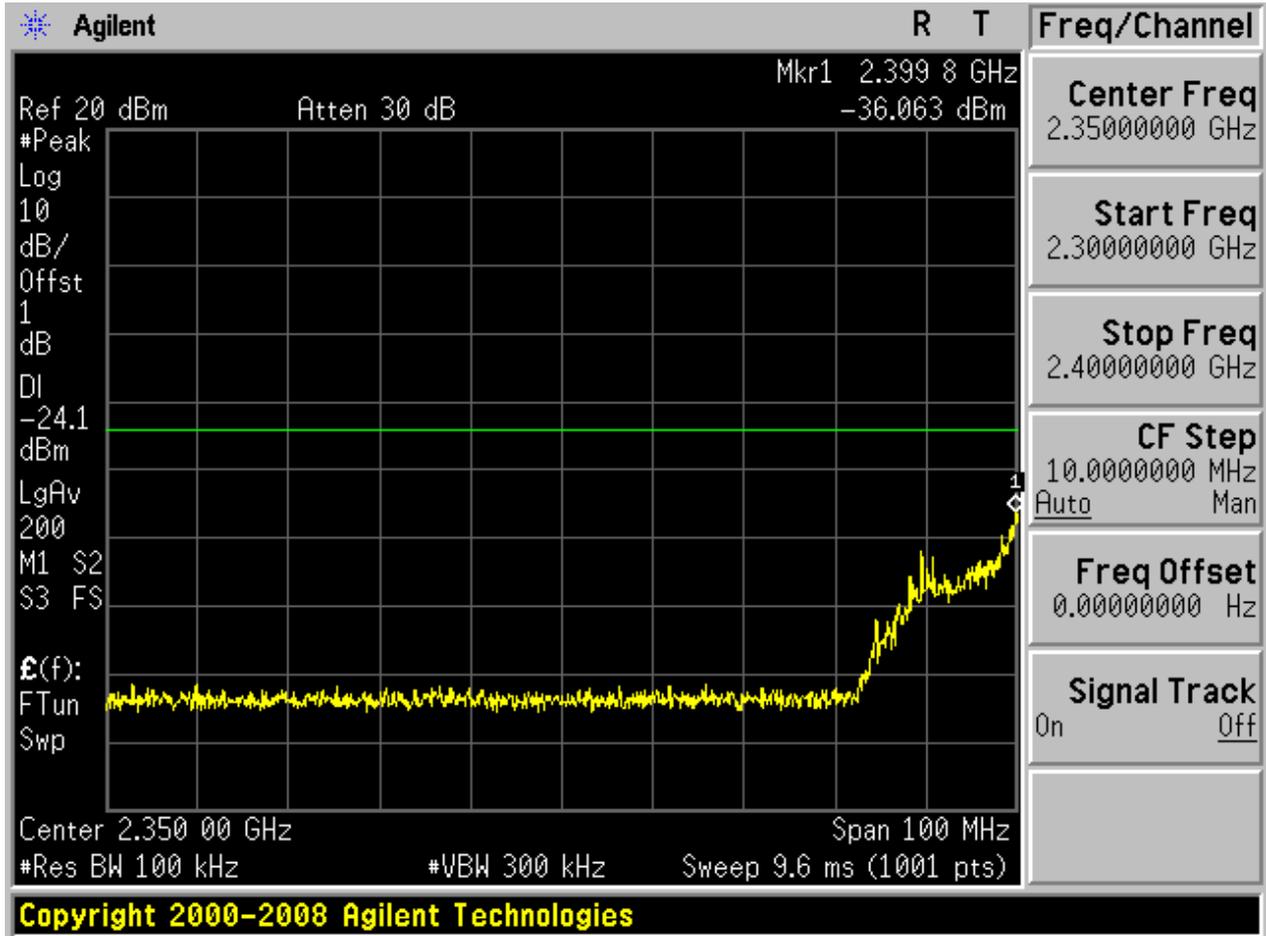


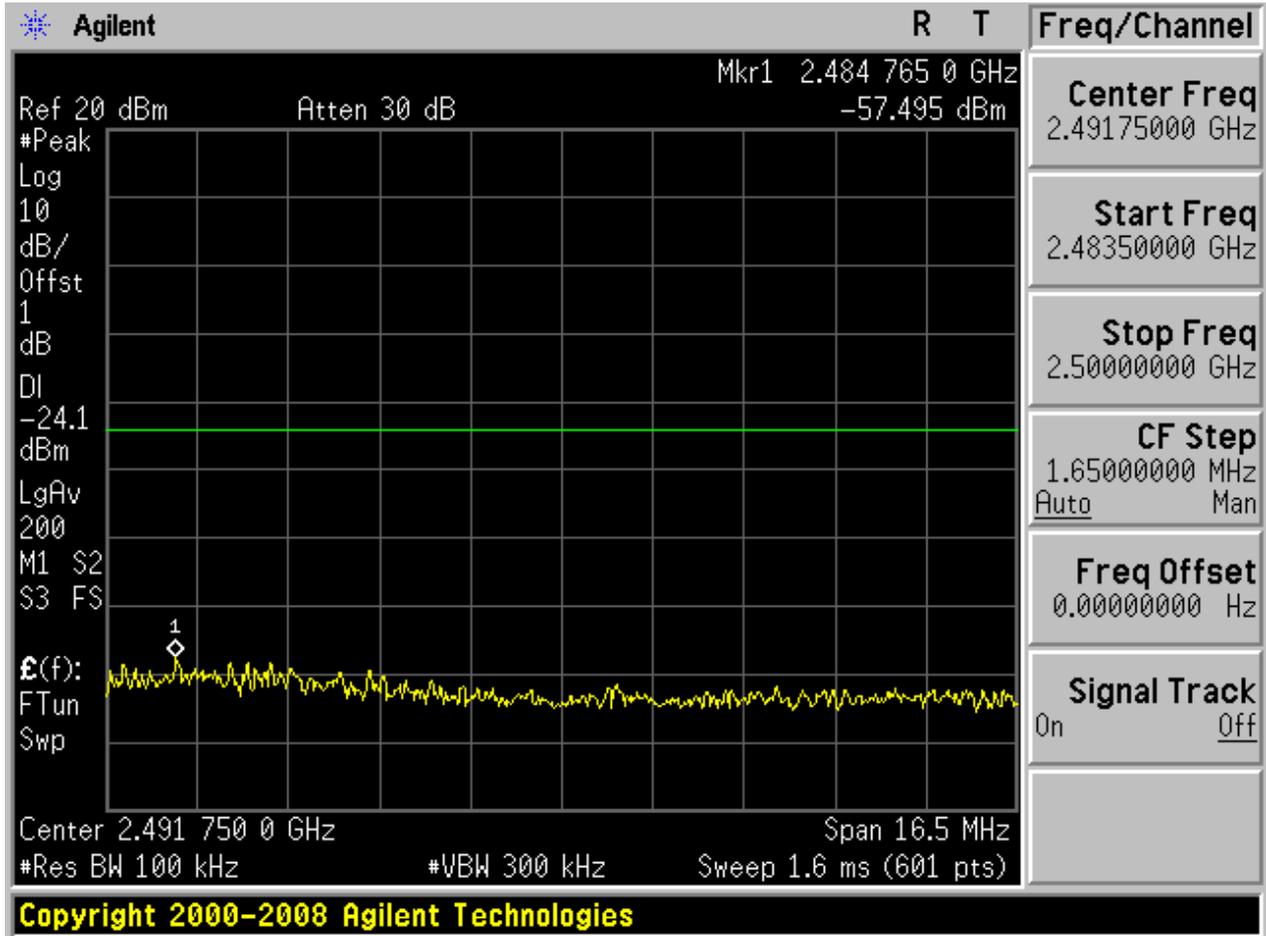
Puw:

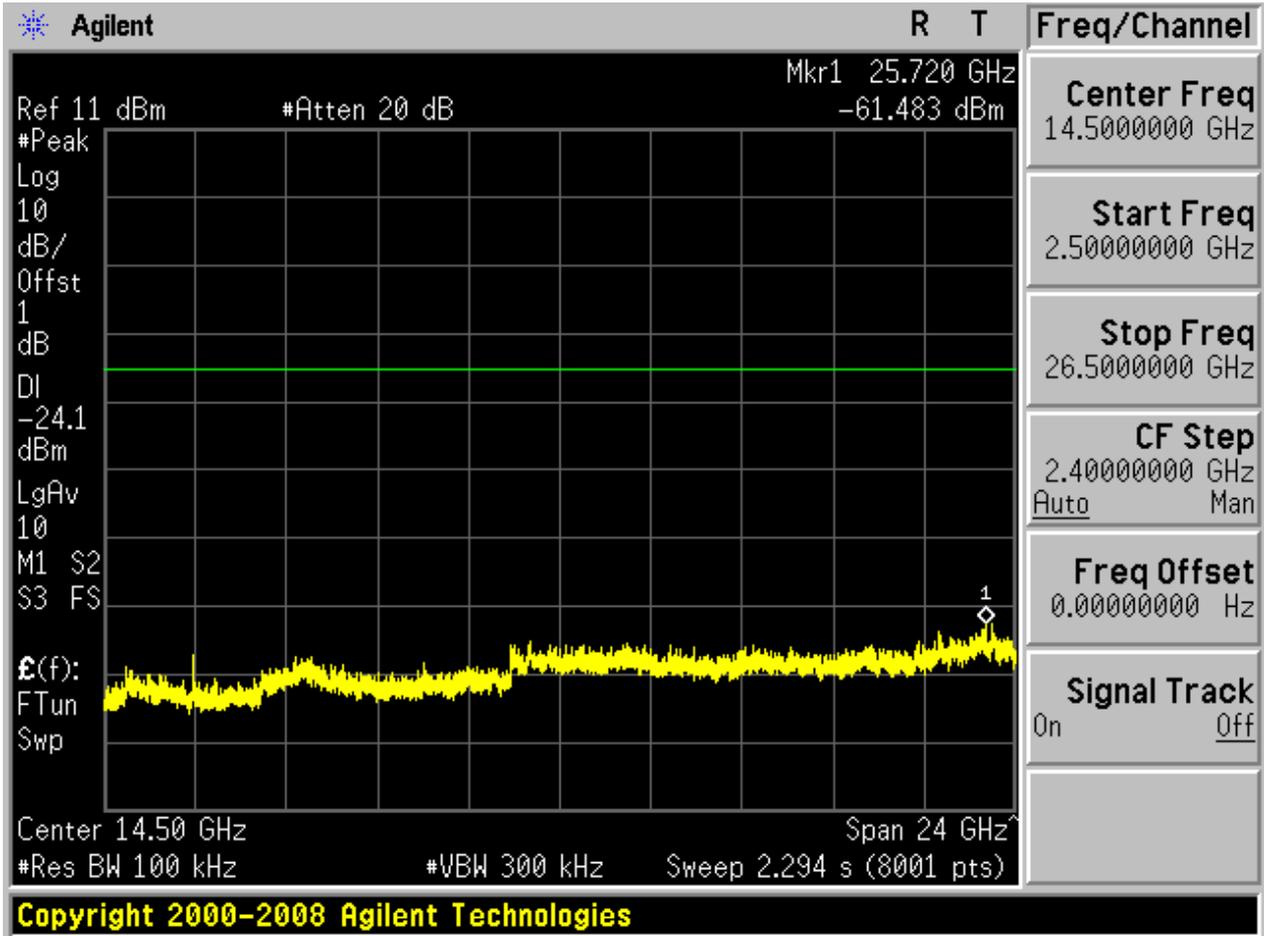






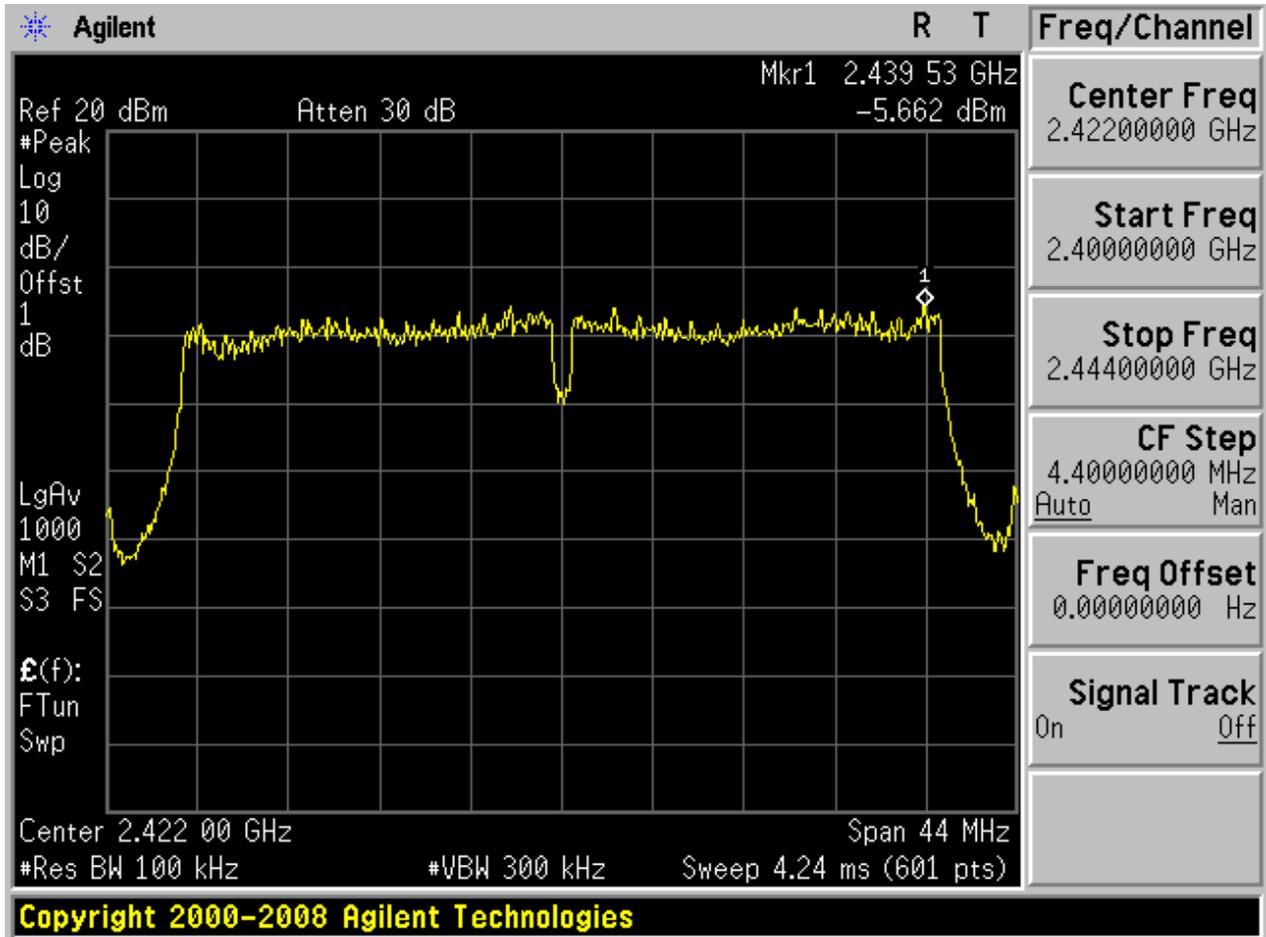




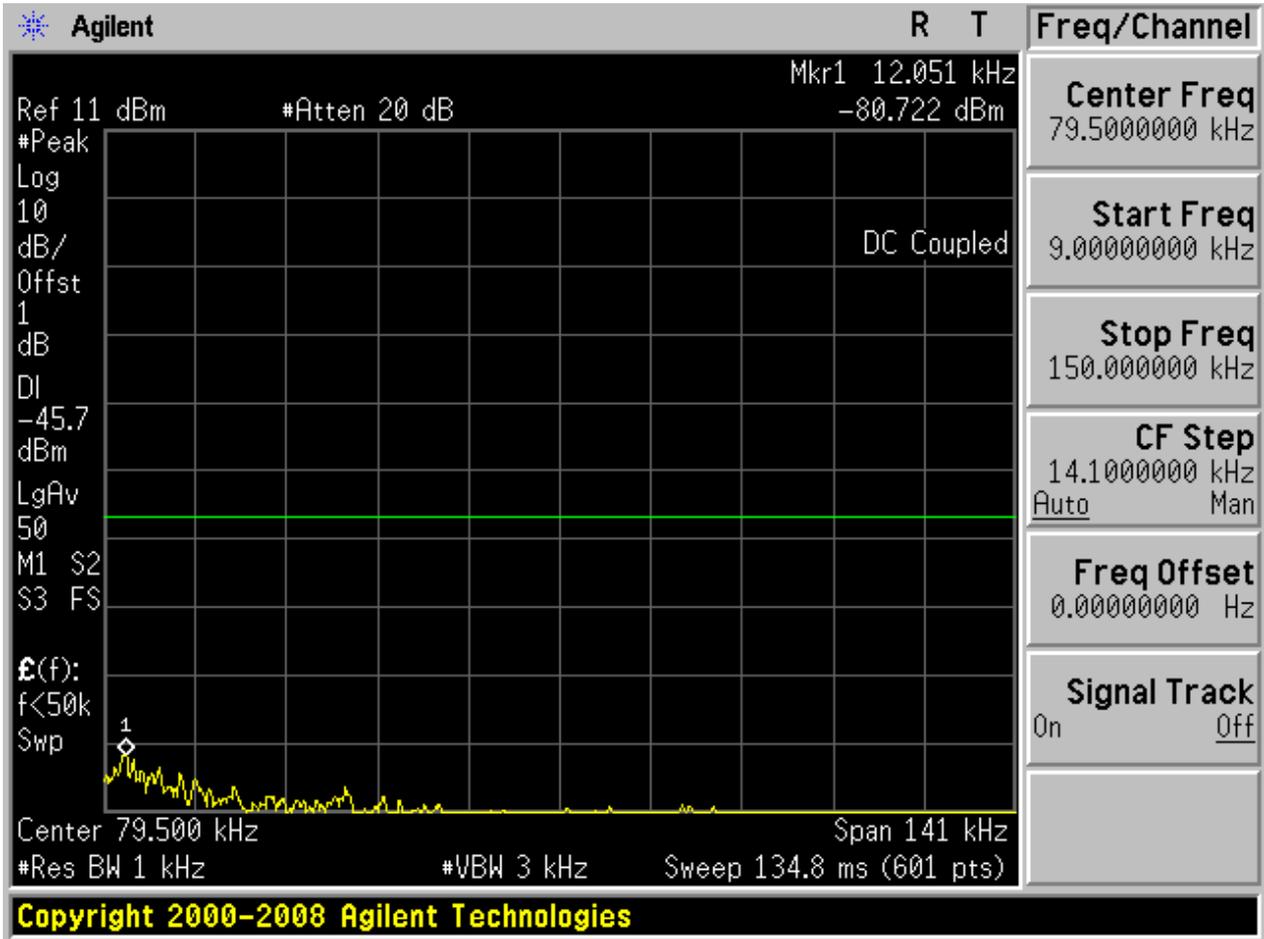


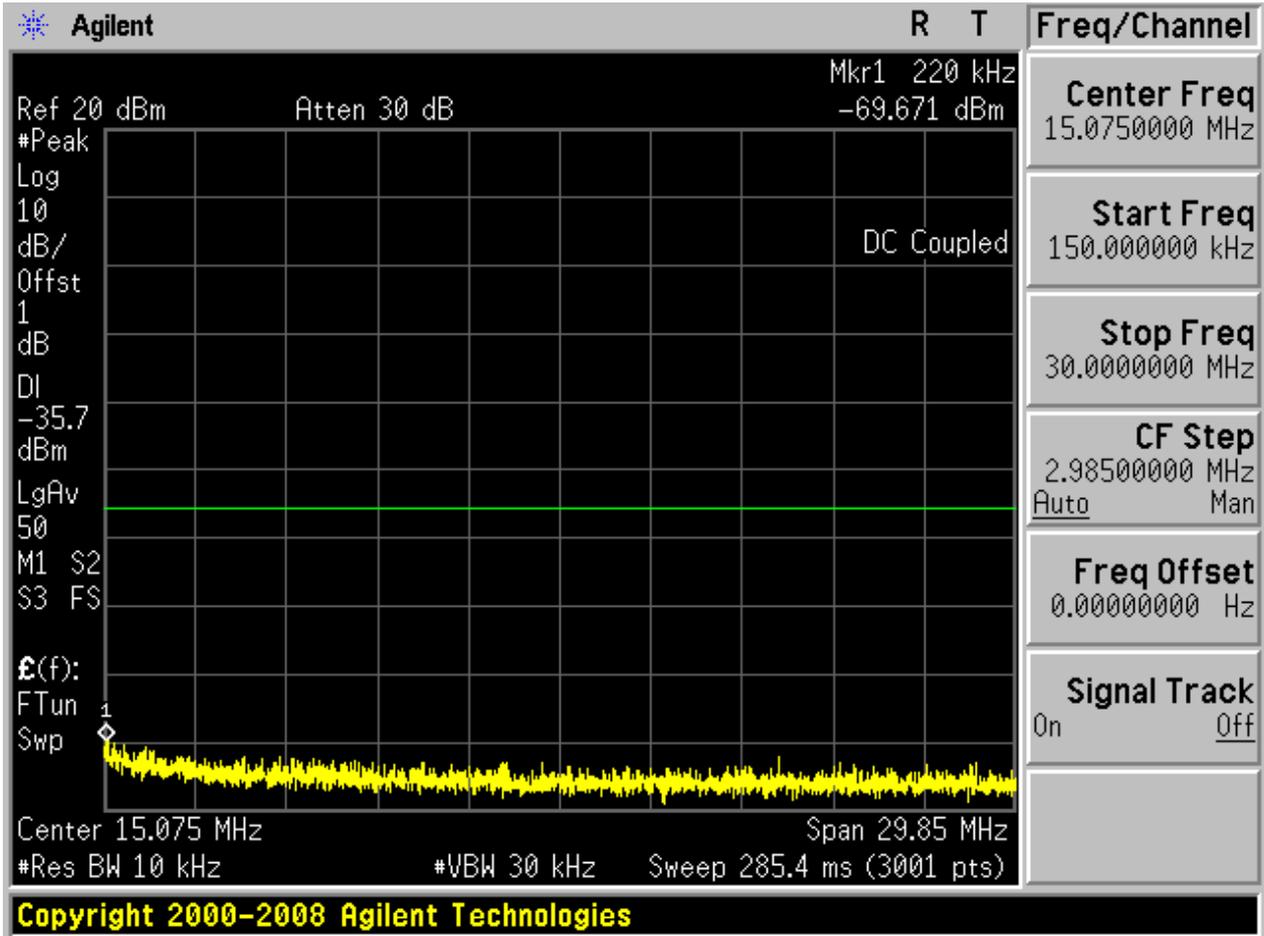
2.32 11N40m_L@Ant 2

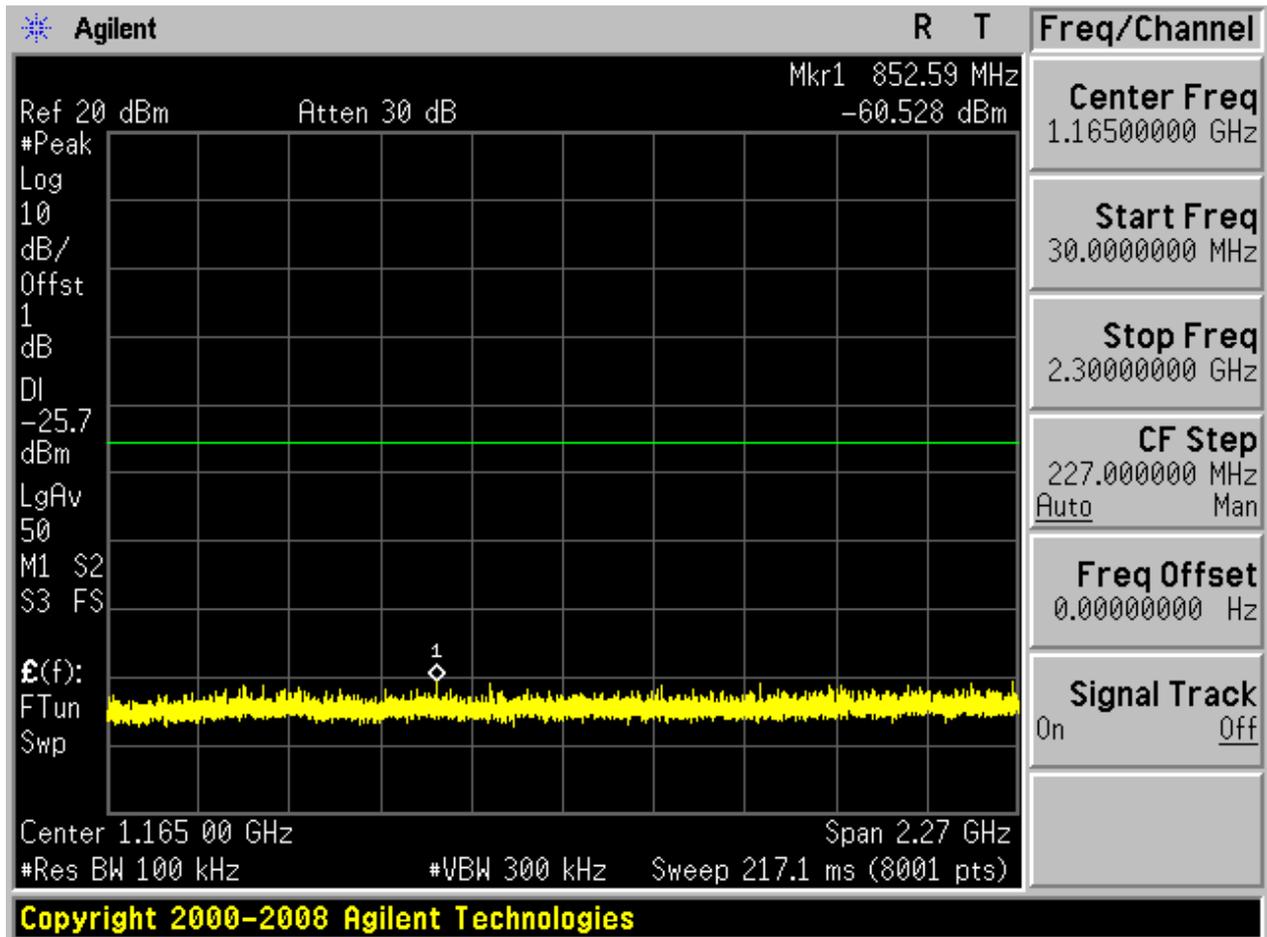
Pref:

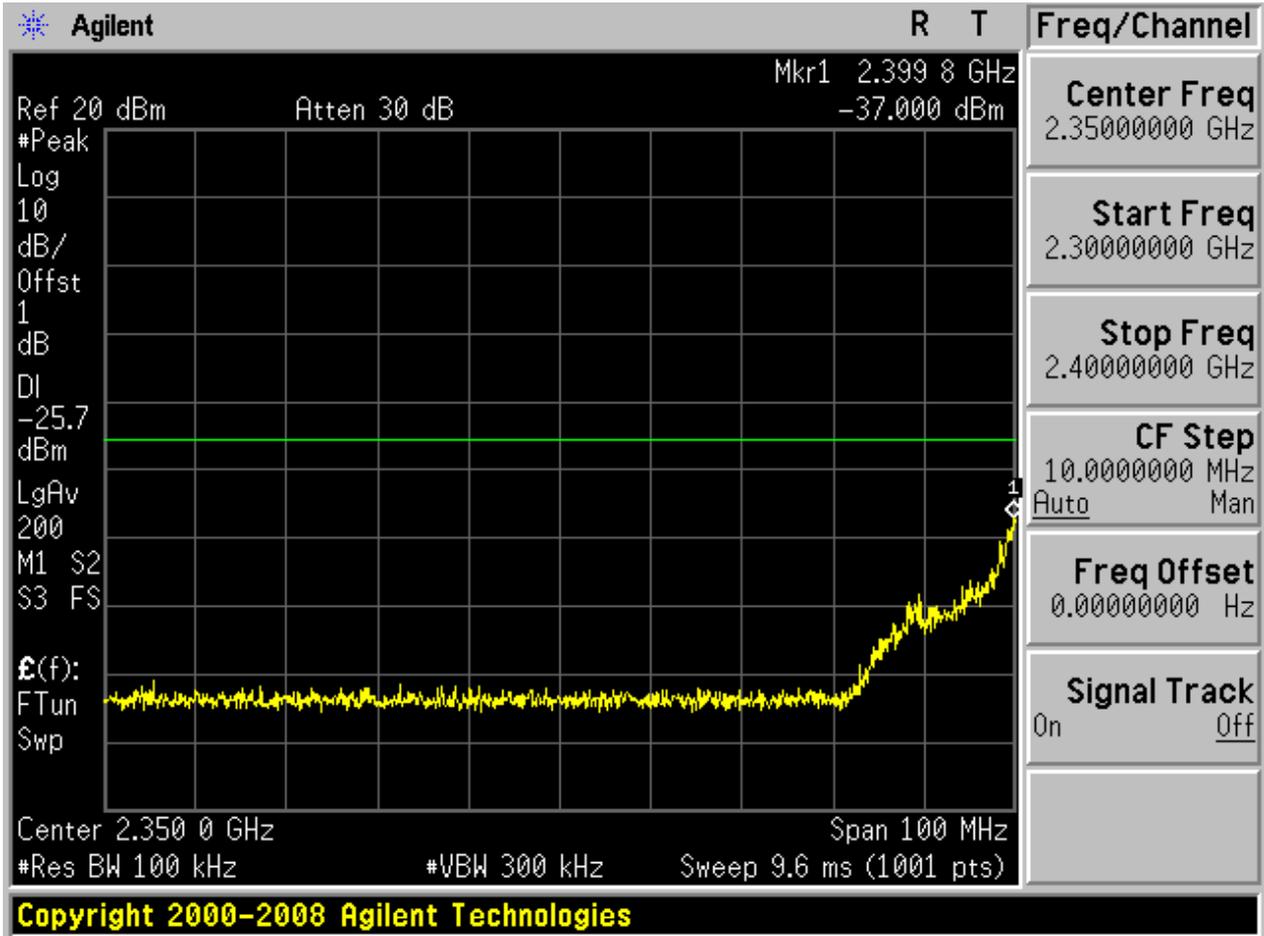


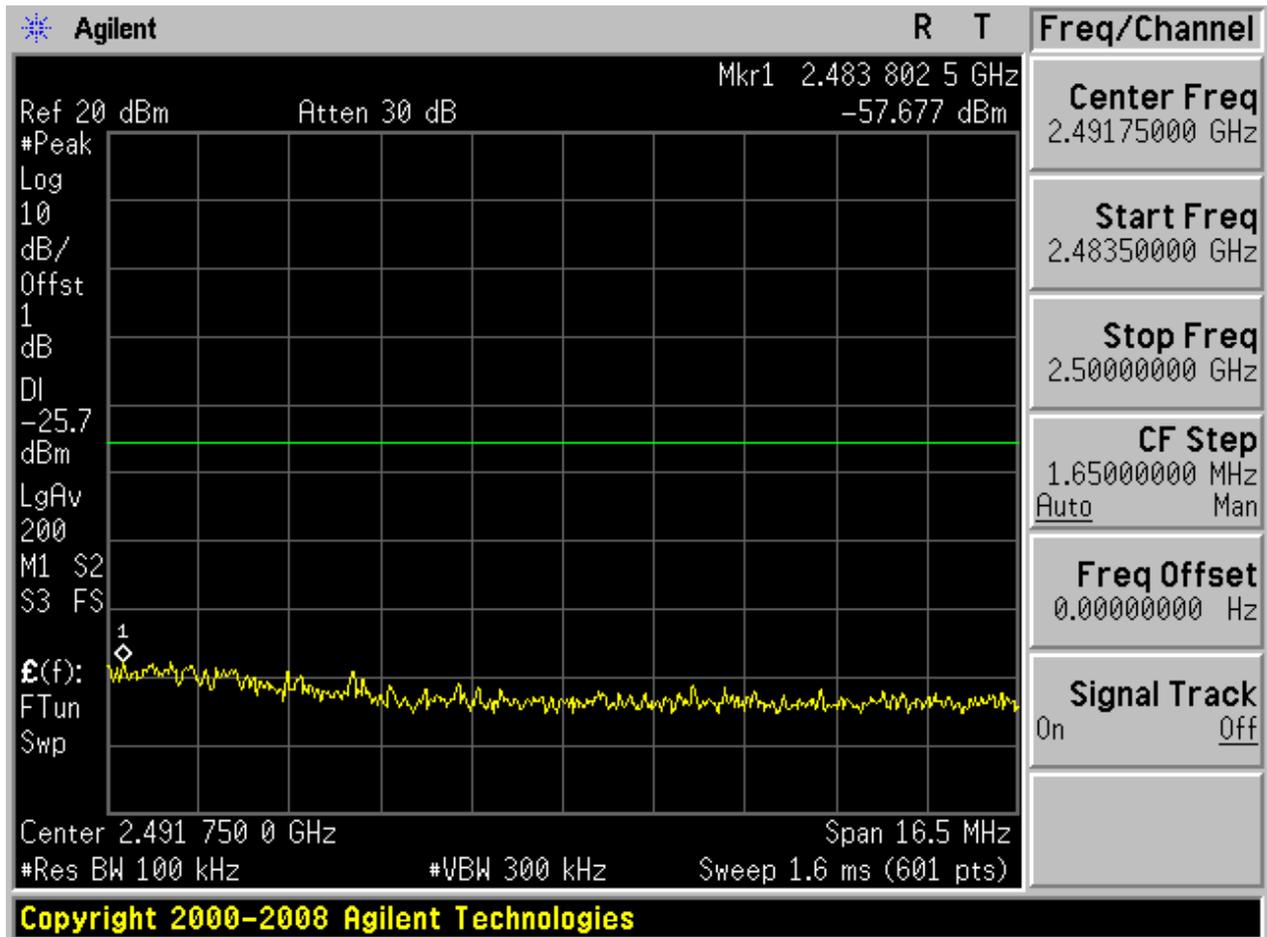
Puw:

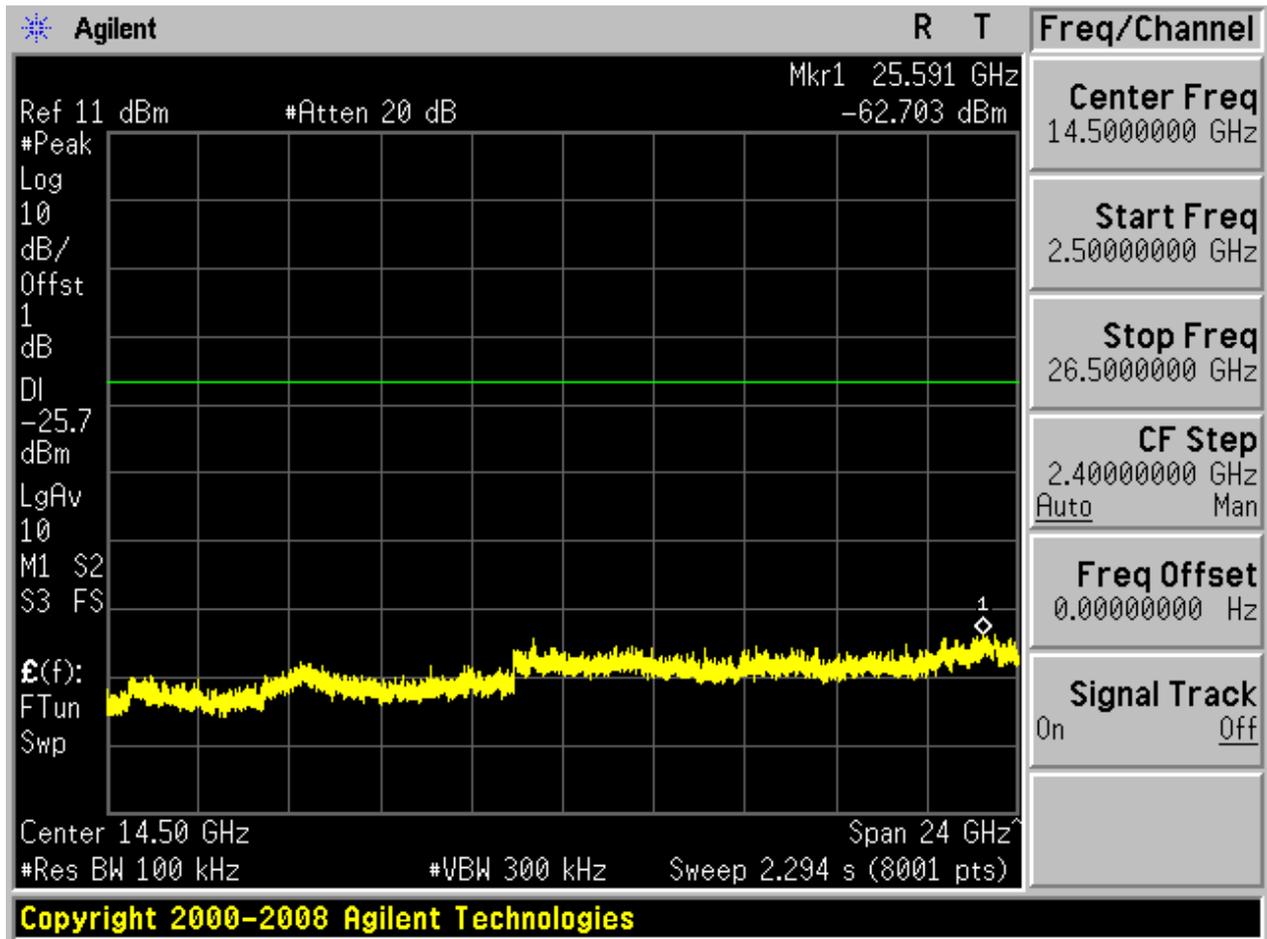






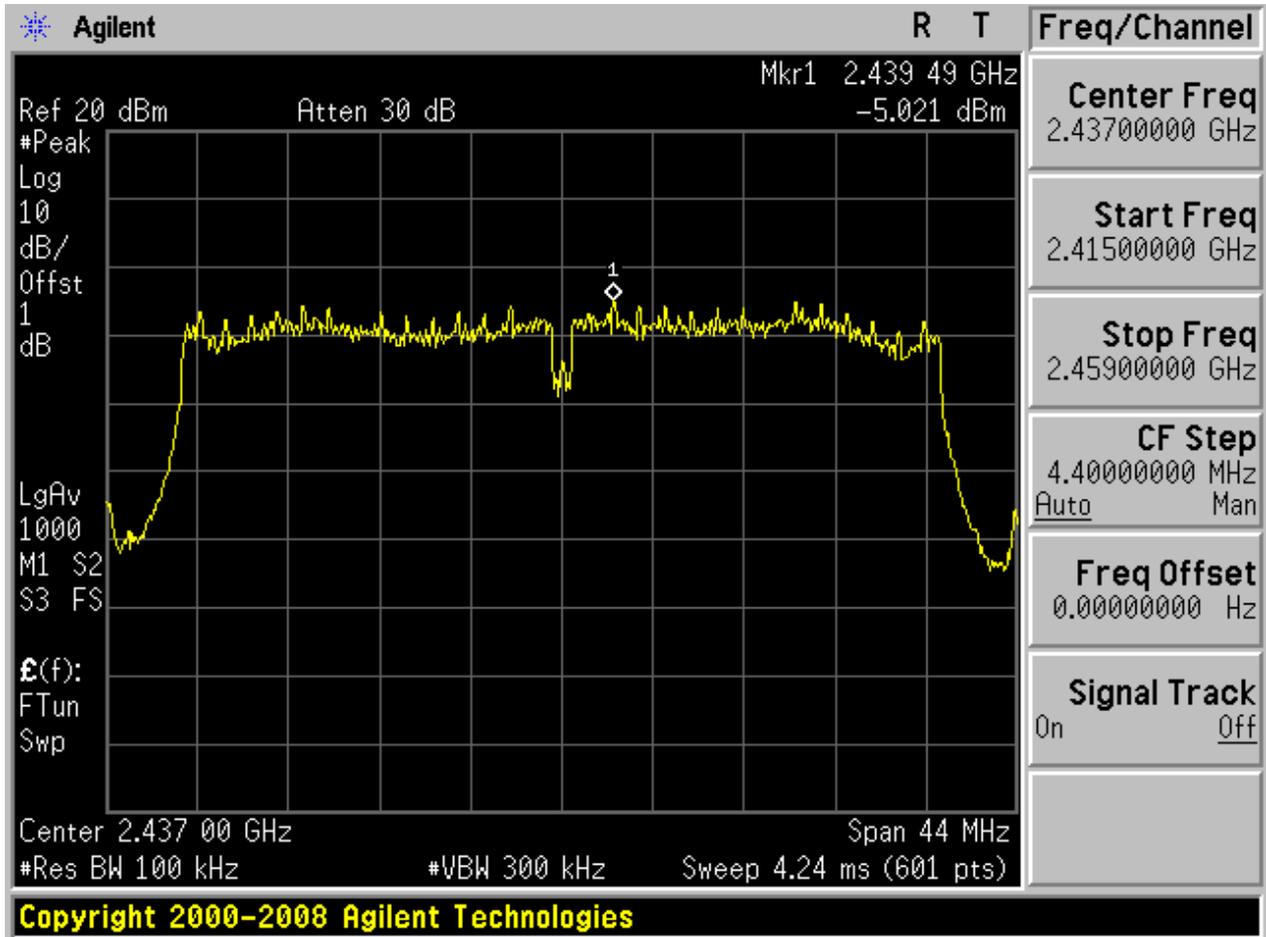




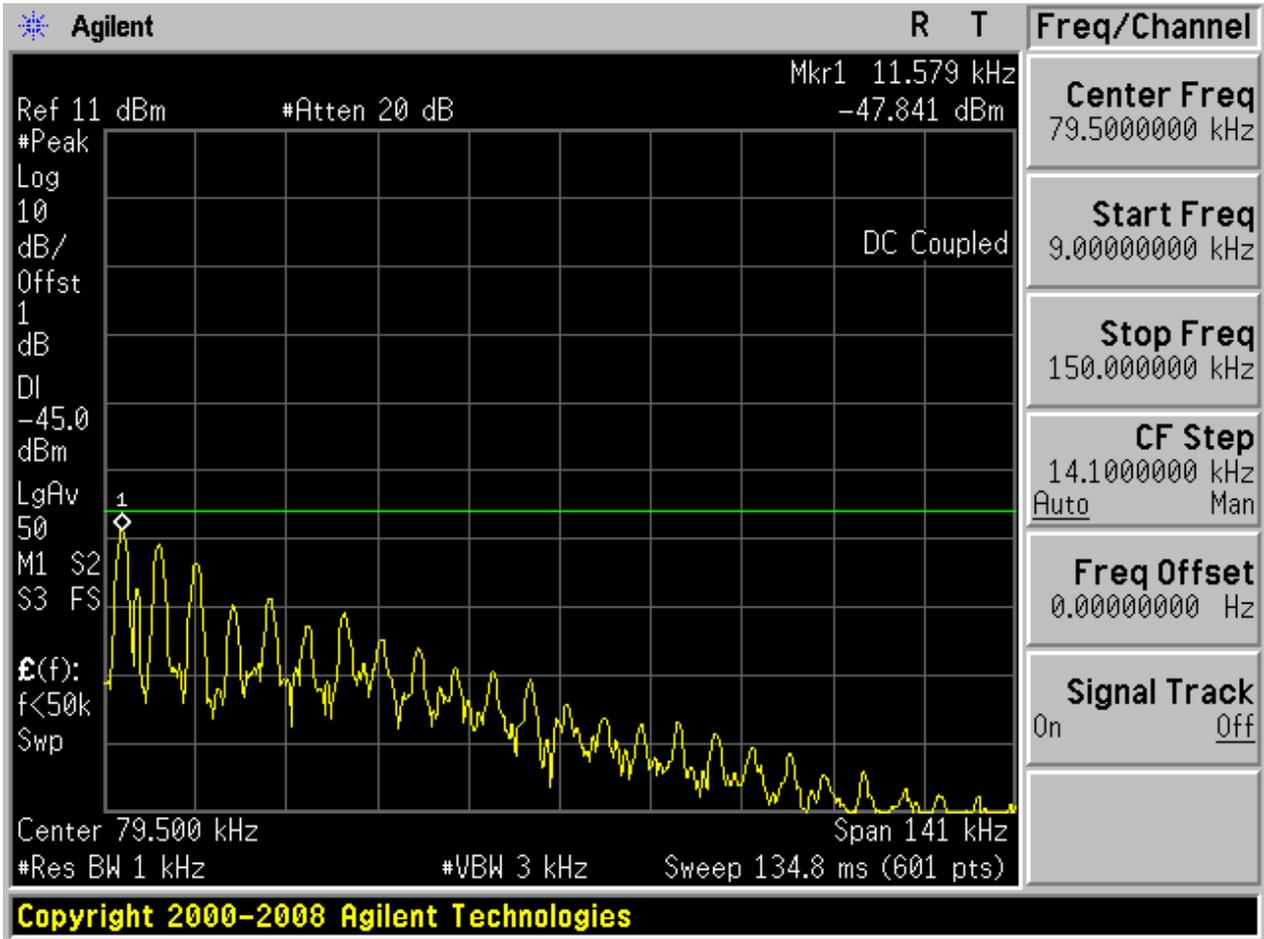


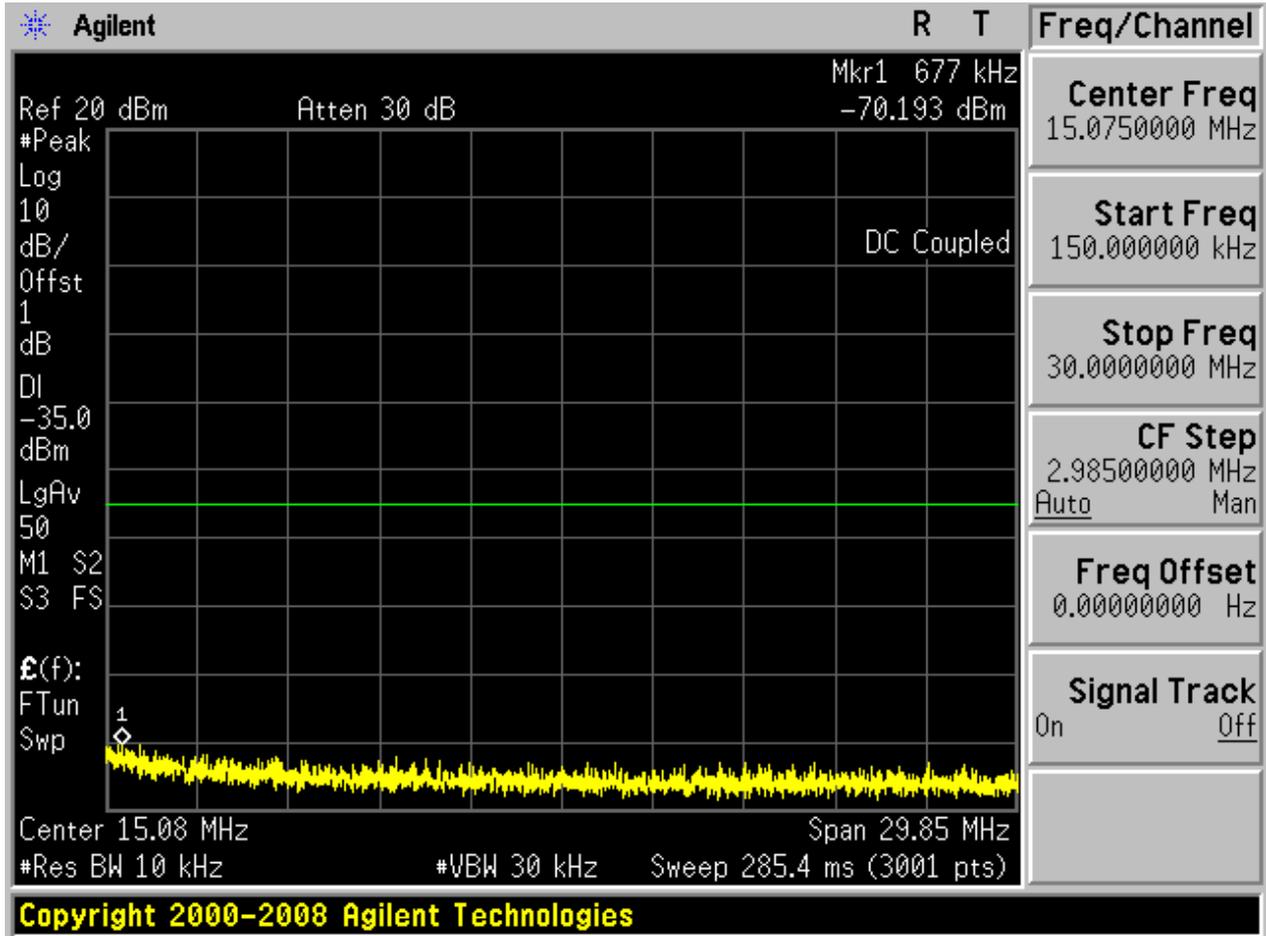
2.33 11N40m_M@Ant 1

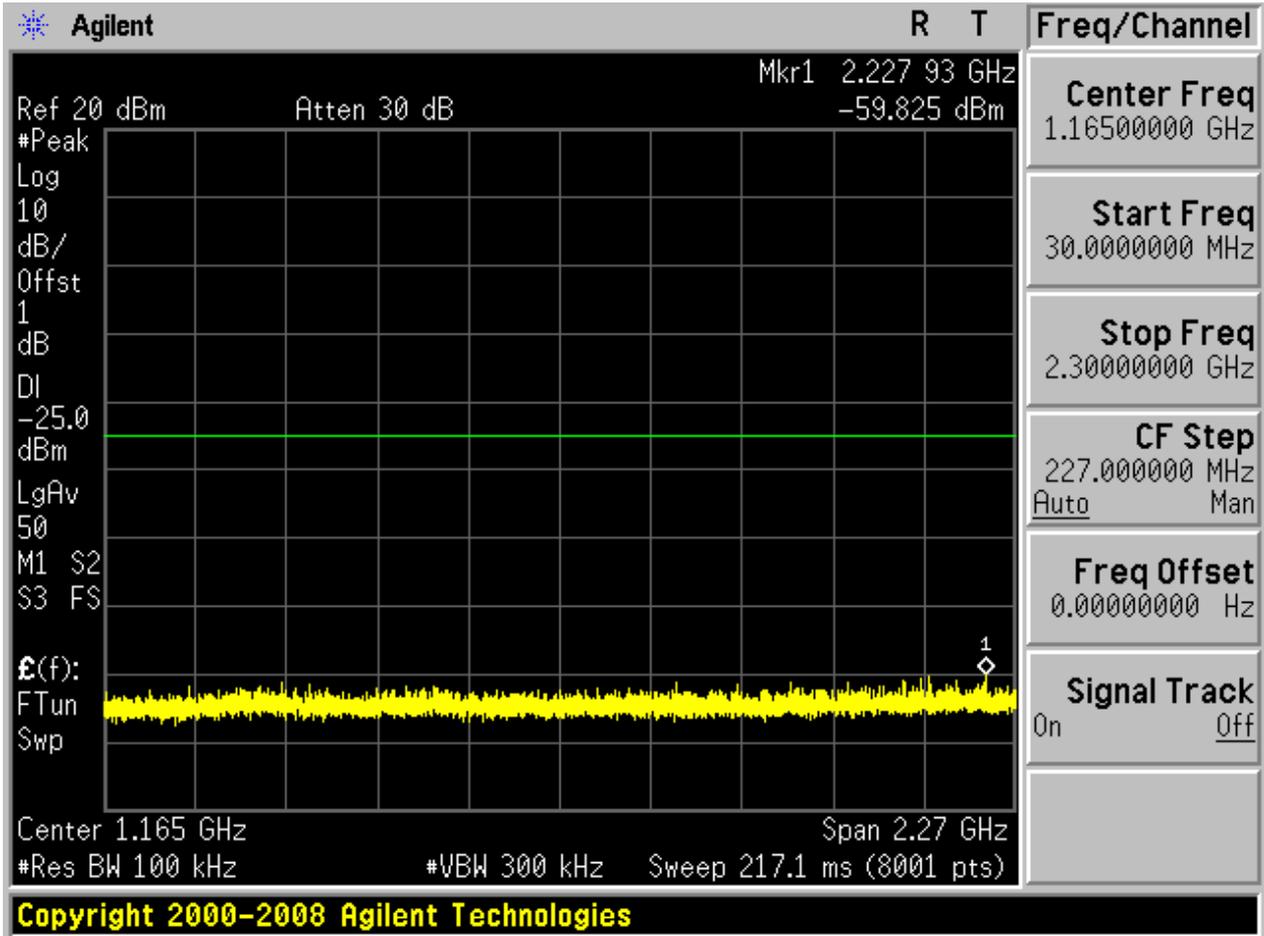
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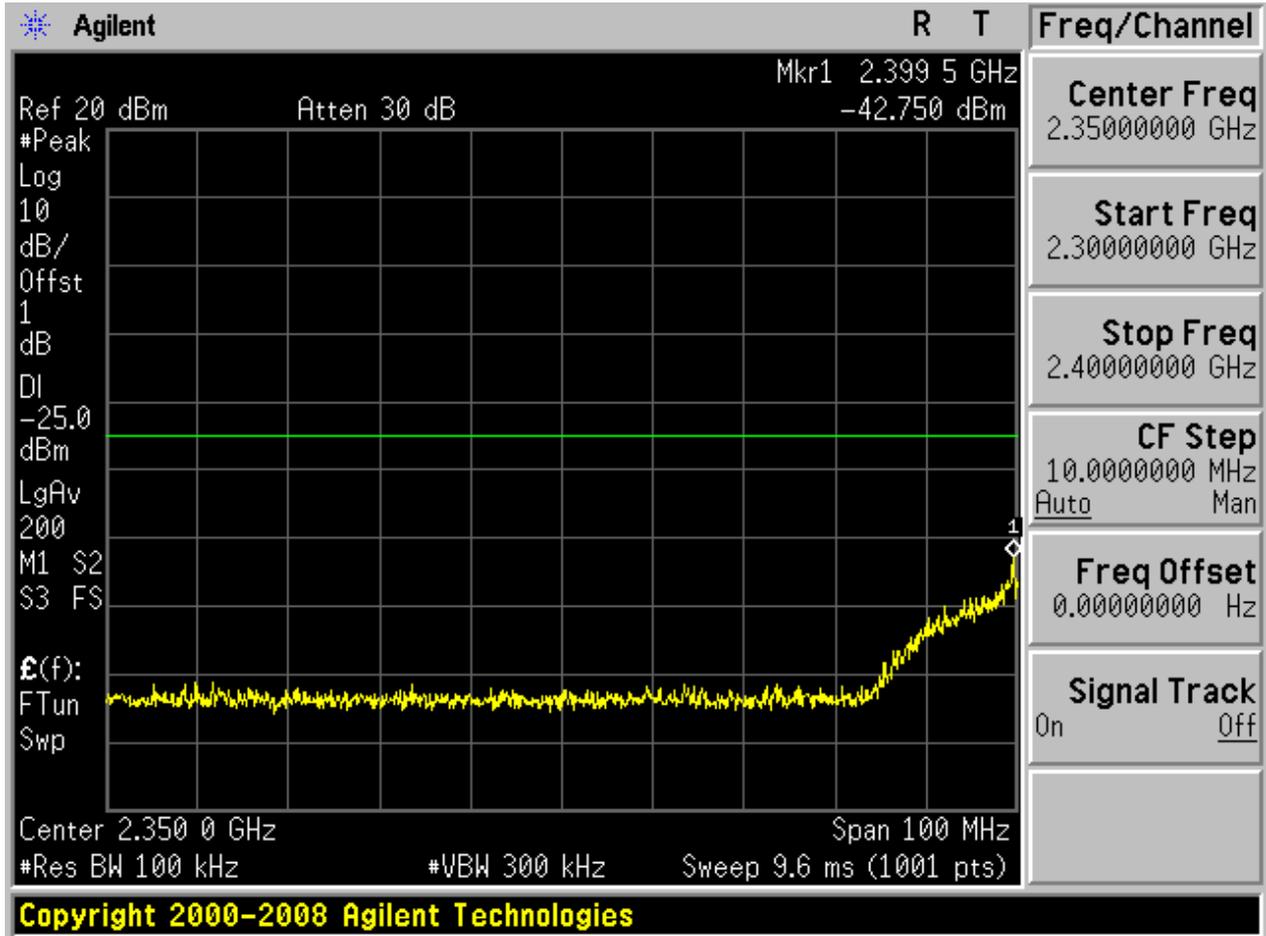


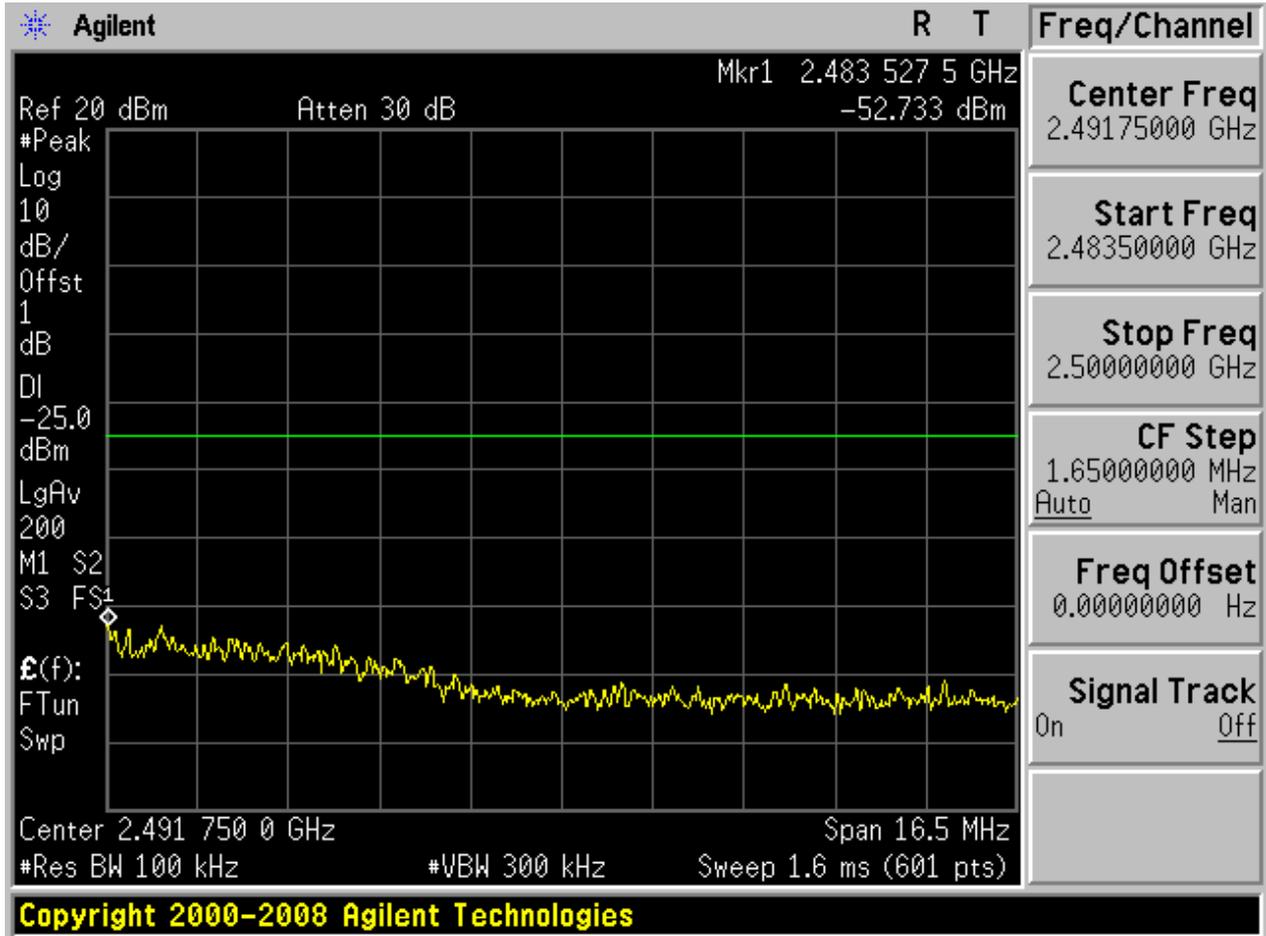
Puw:

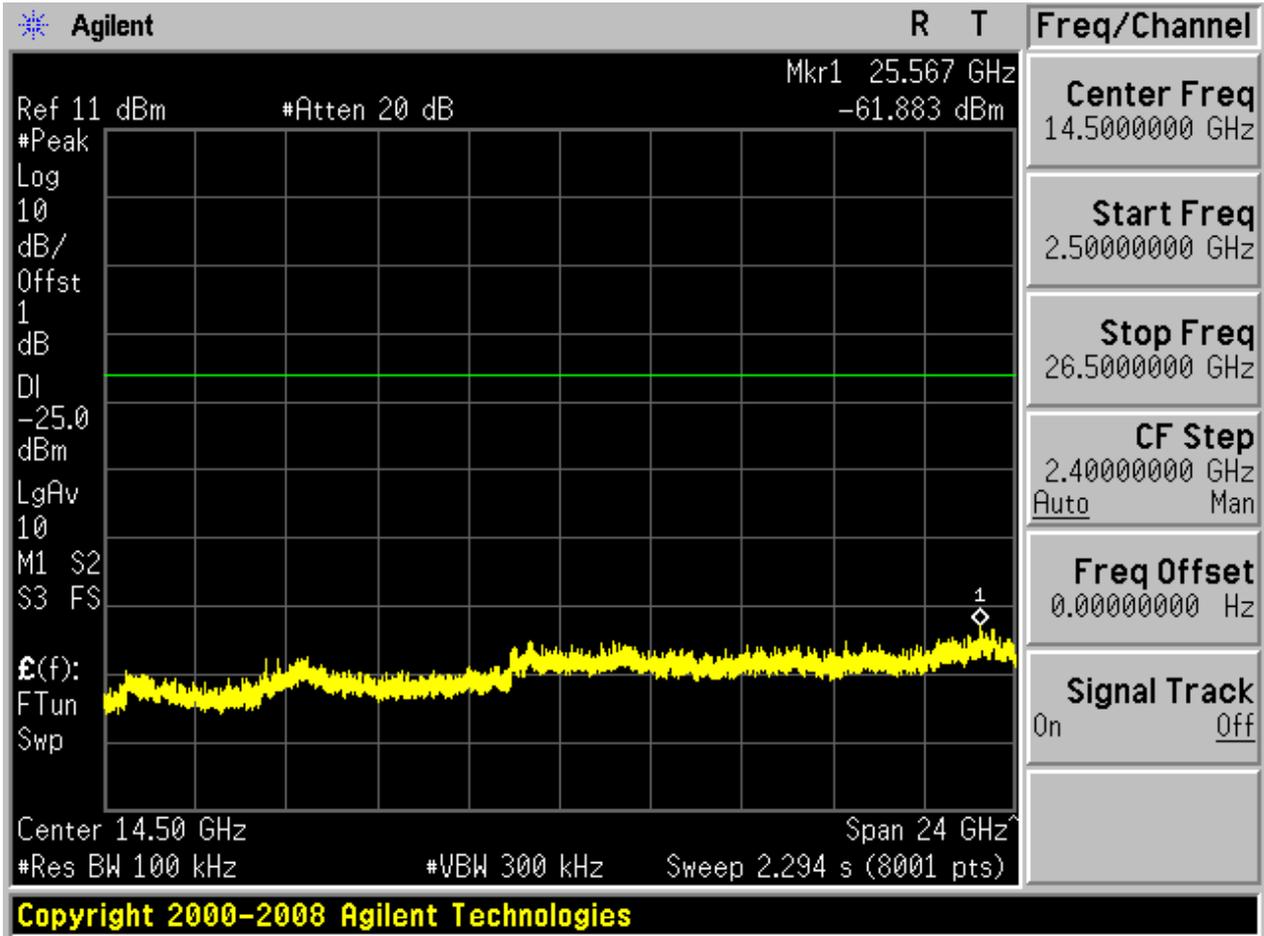






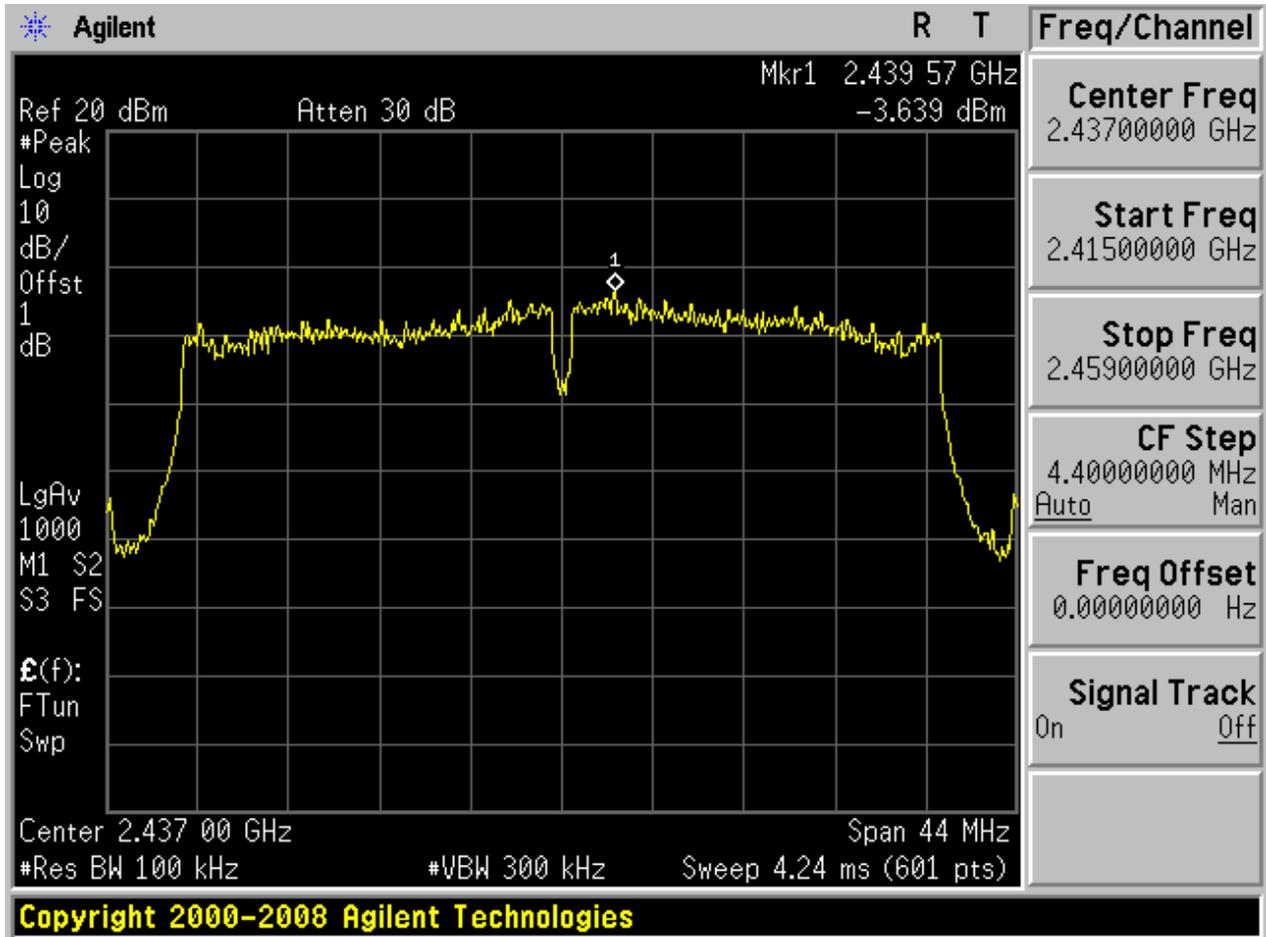




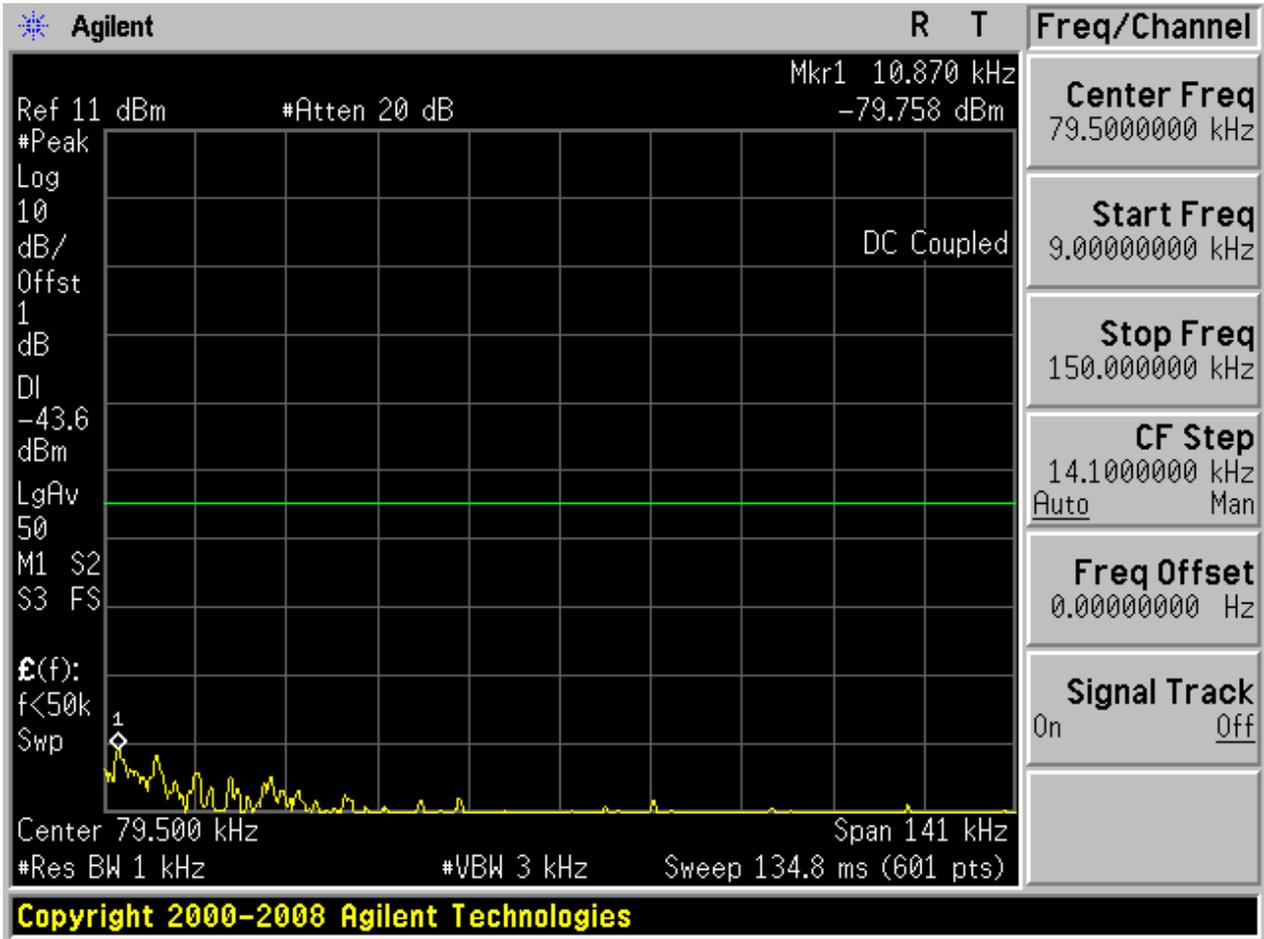


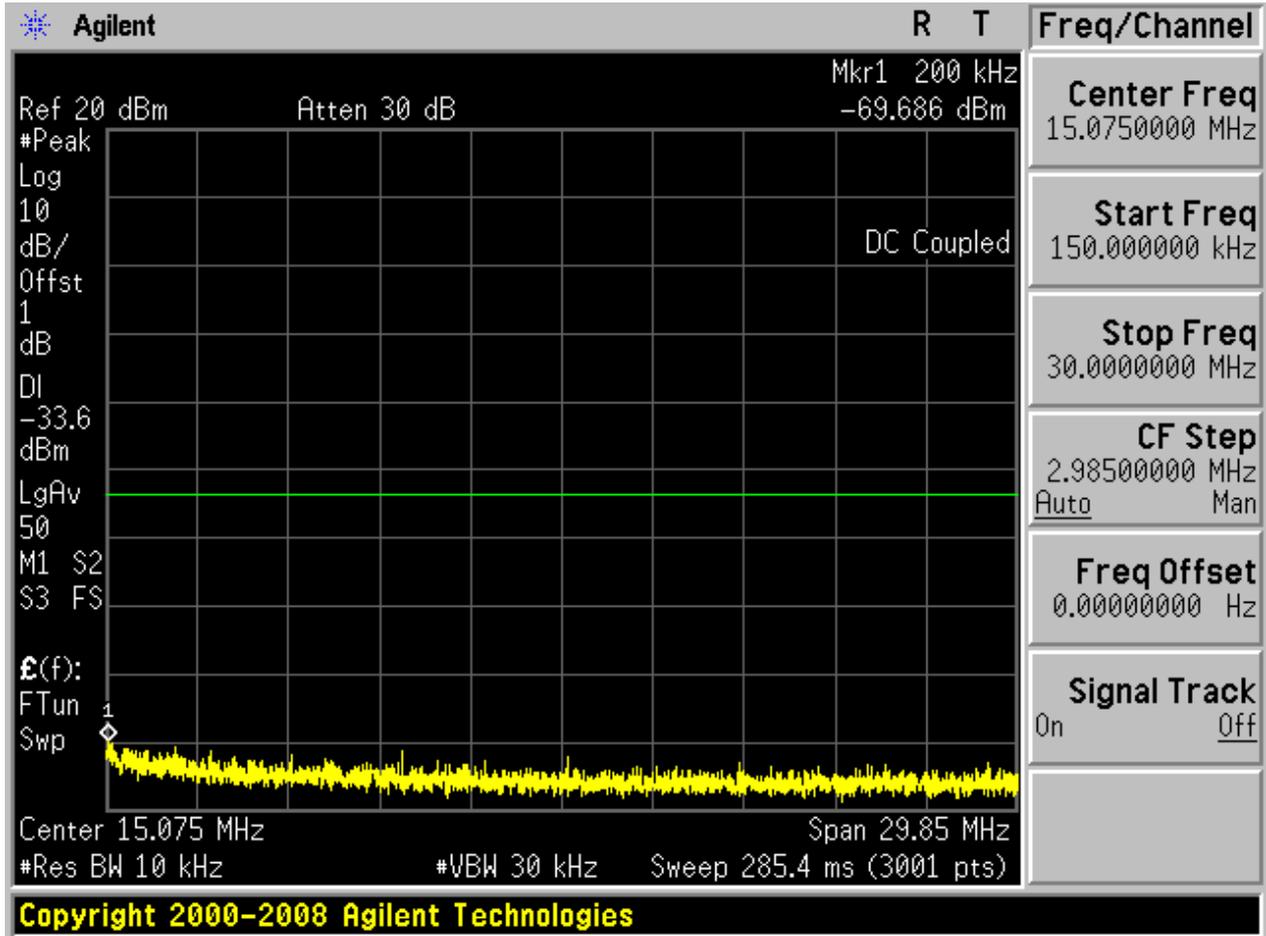
2.34 11N40m_M@Ant 2

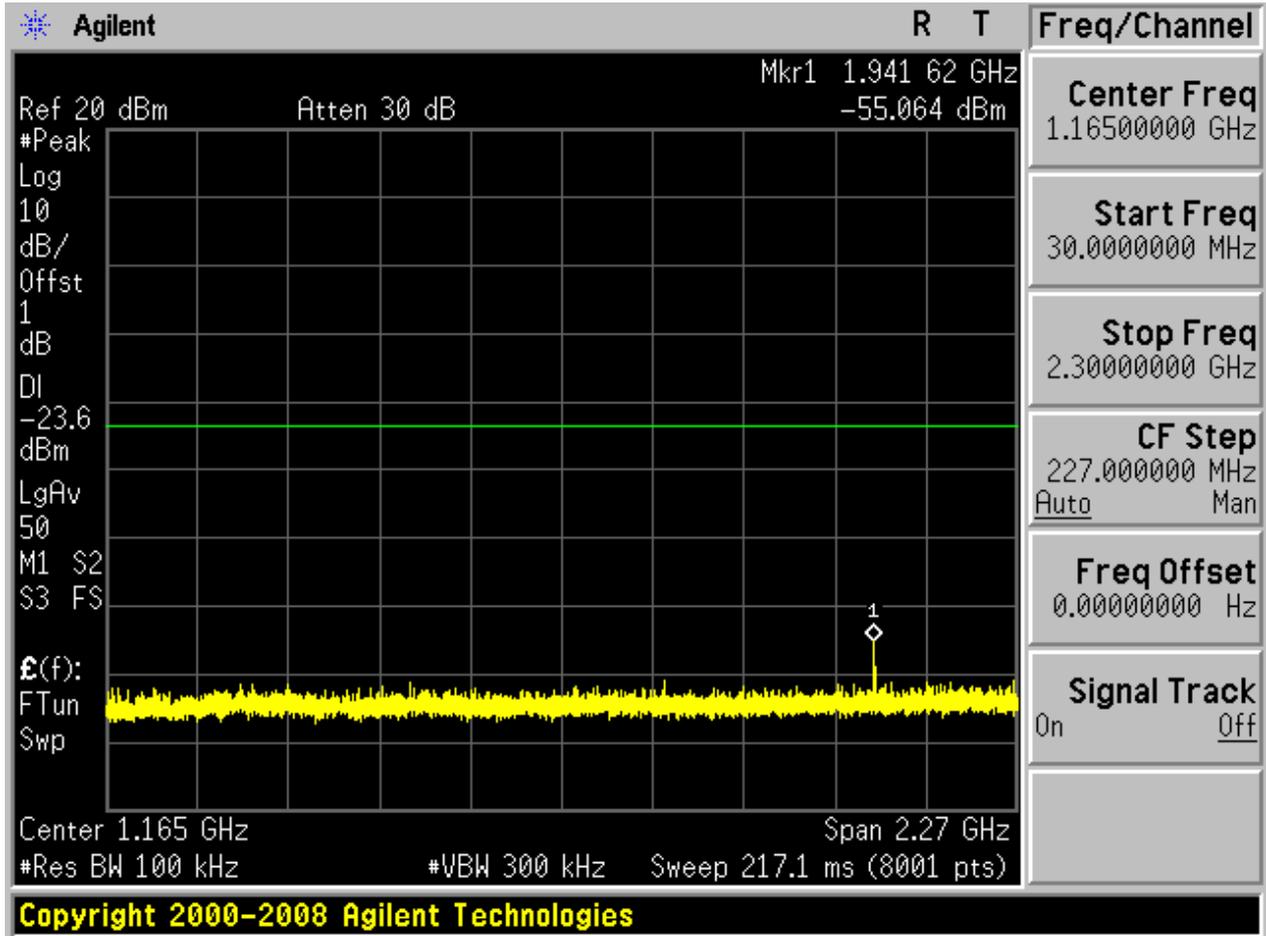
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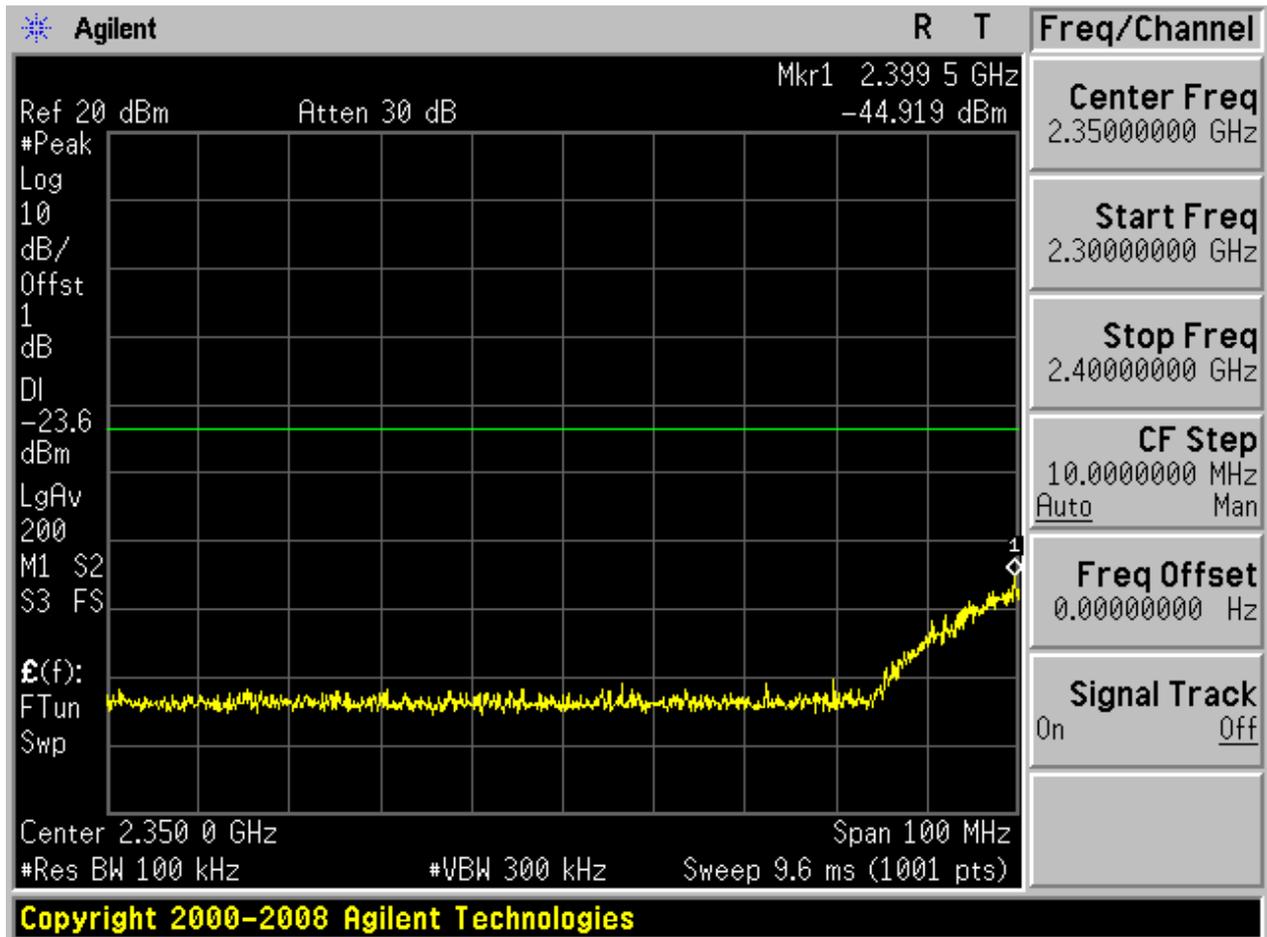


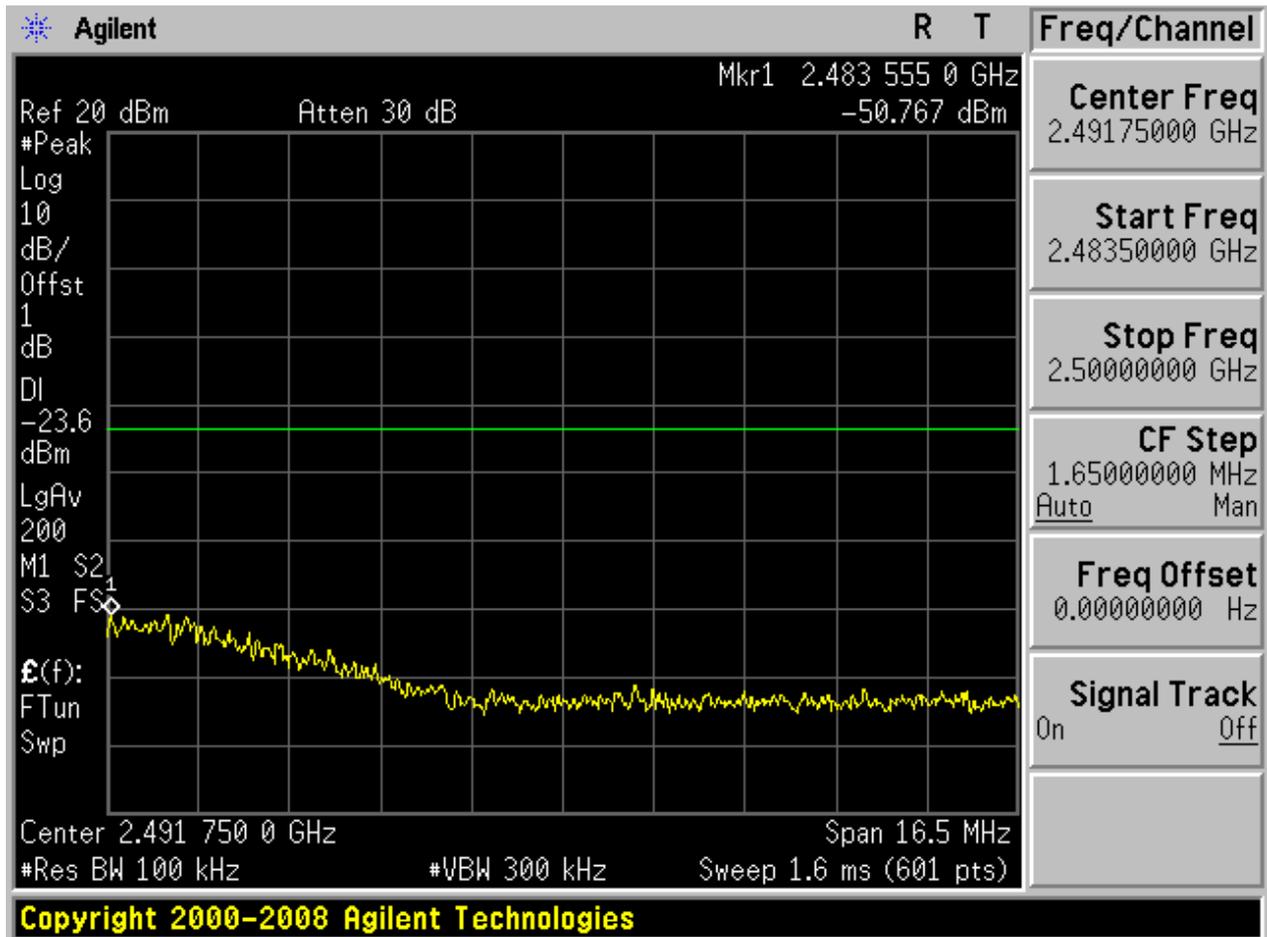
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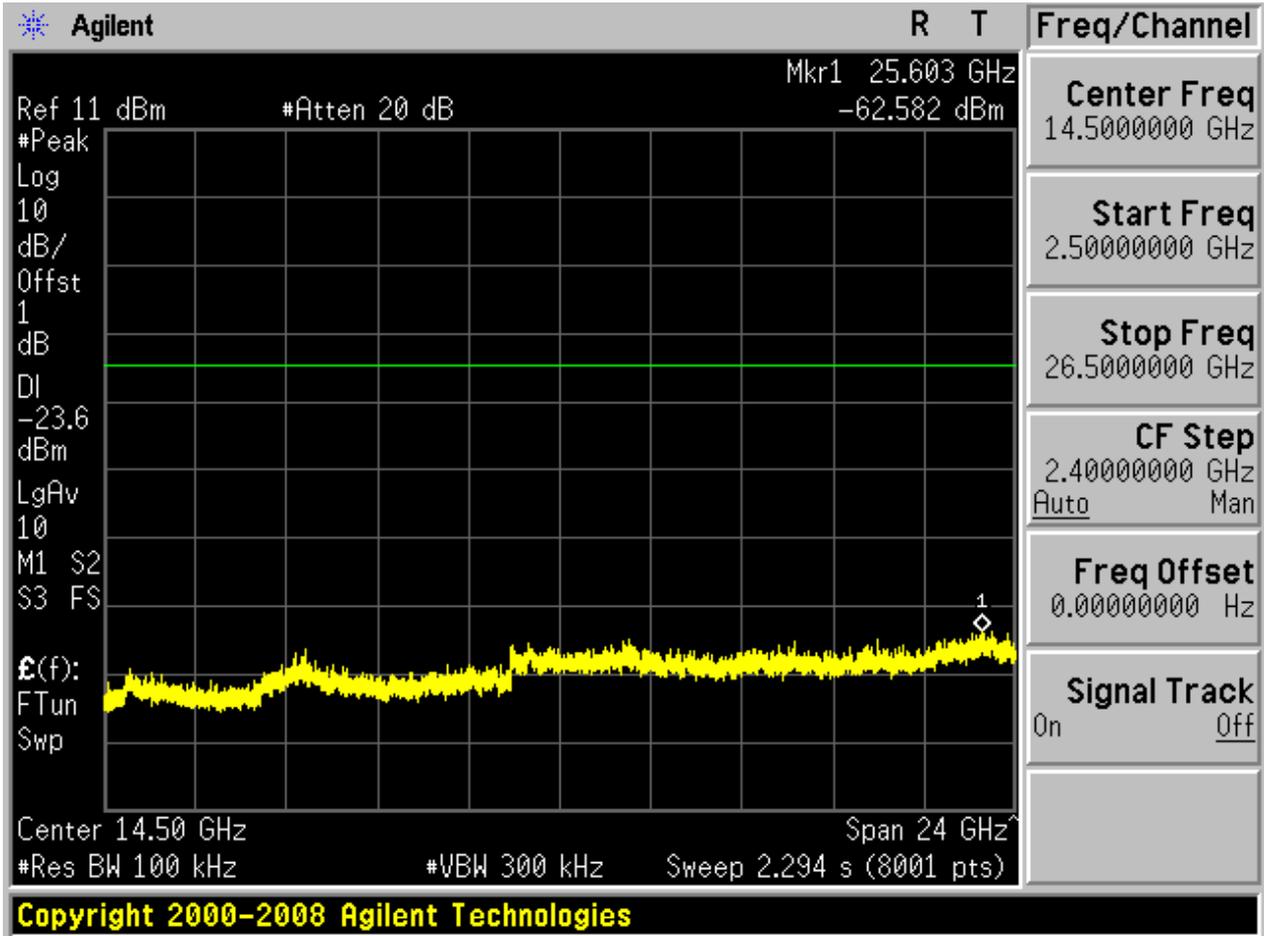






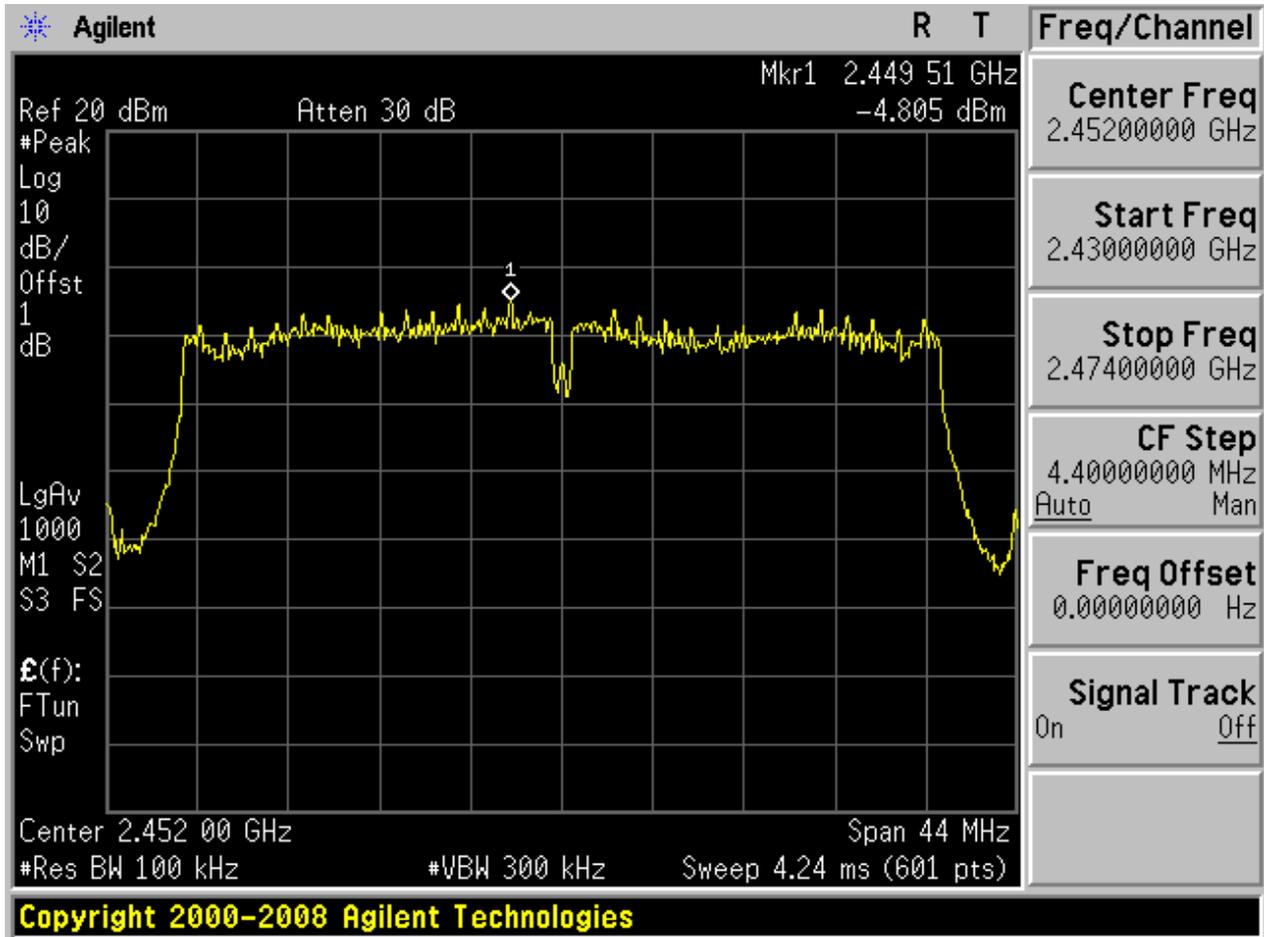




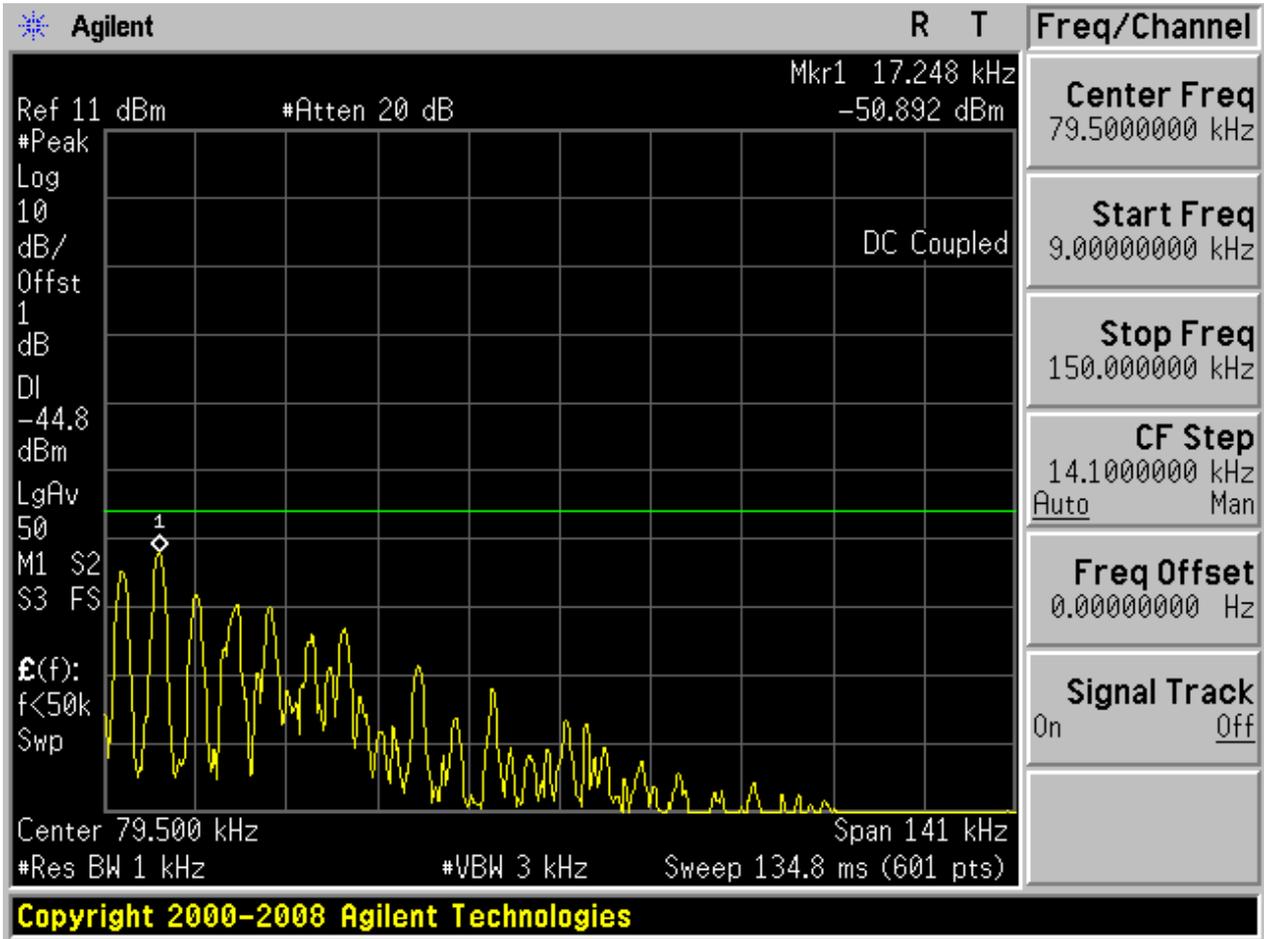


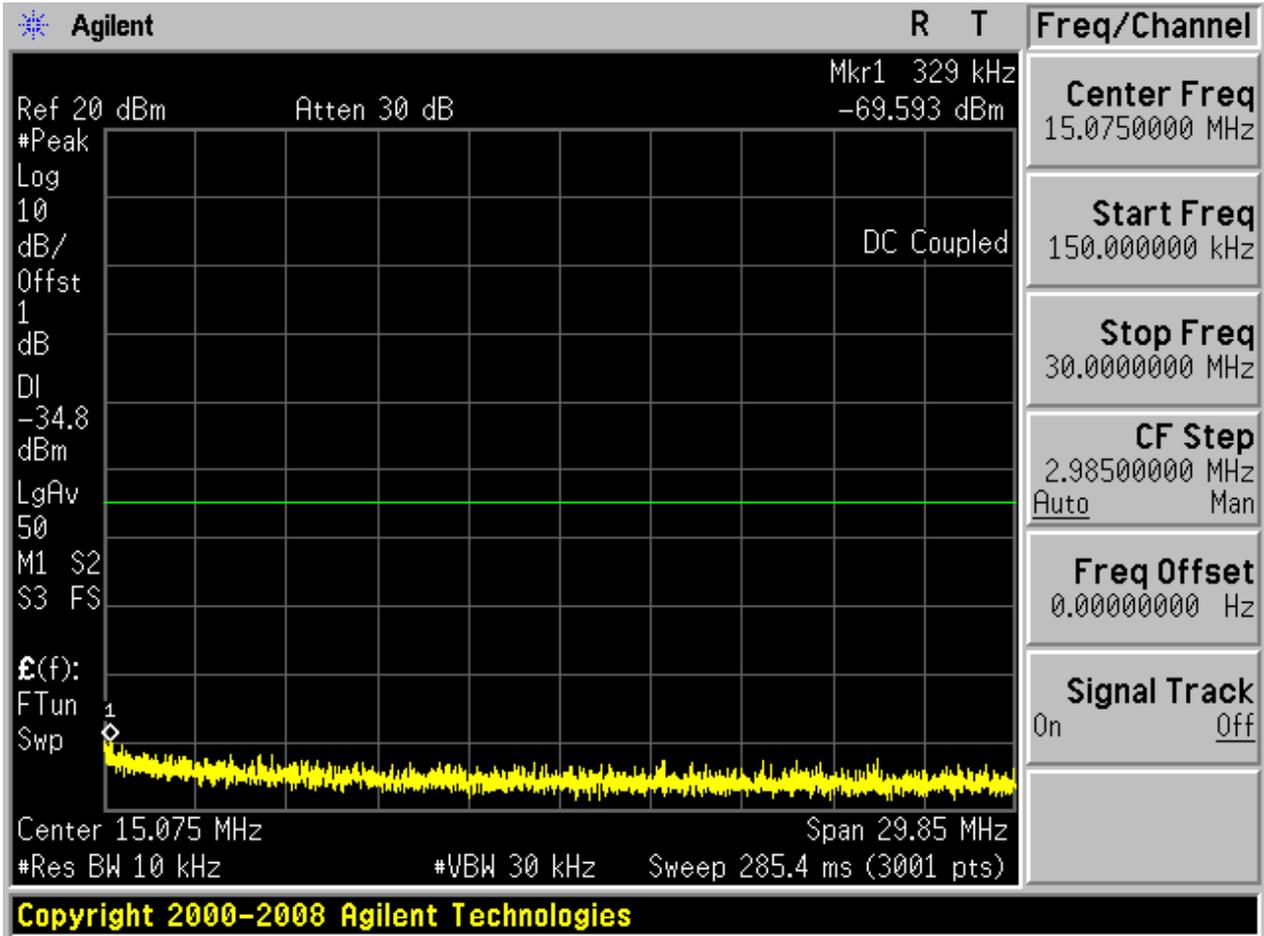
2.35 11N40m_H@Ant 1

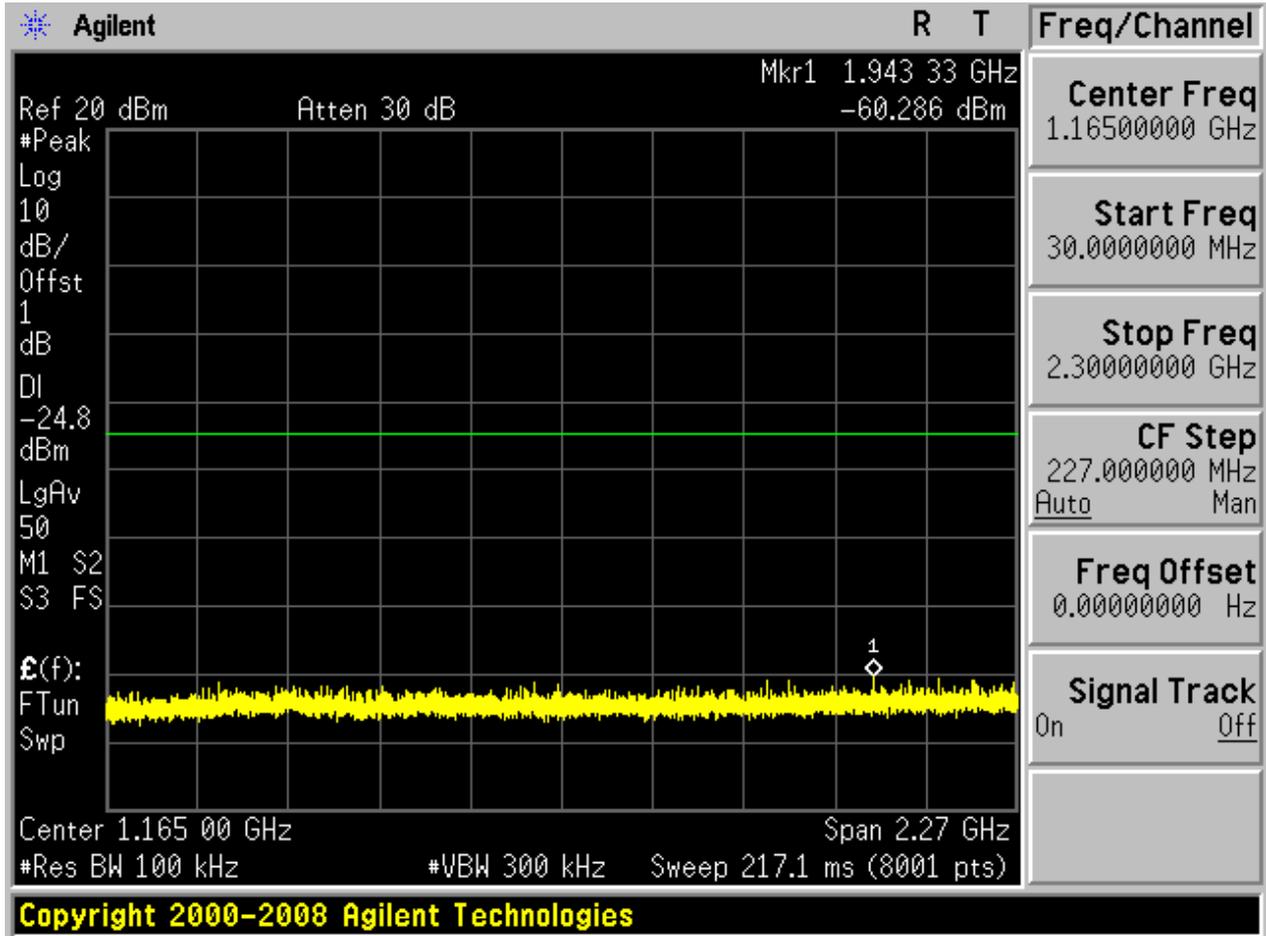
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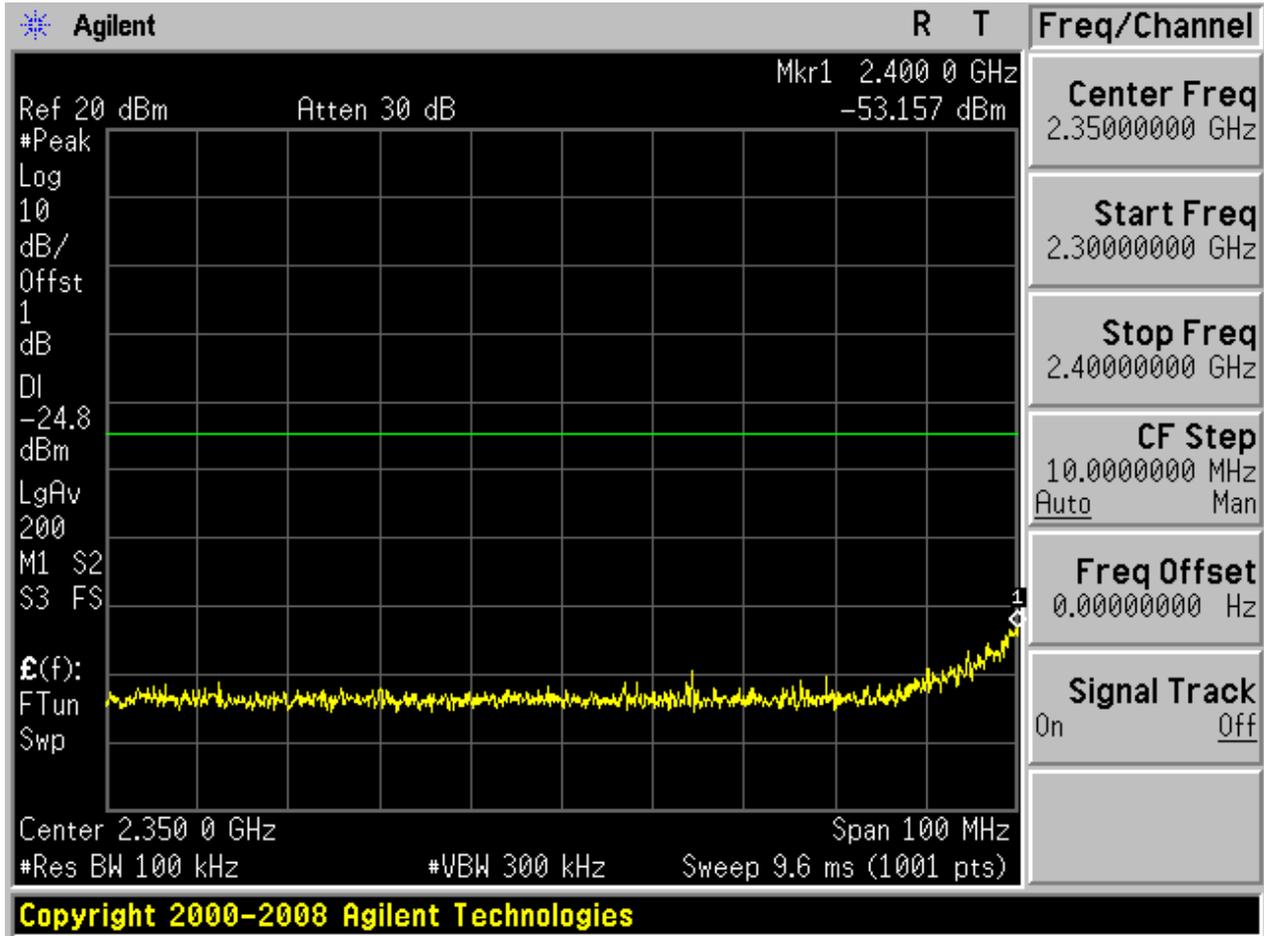


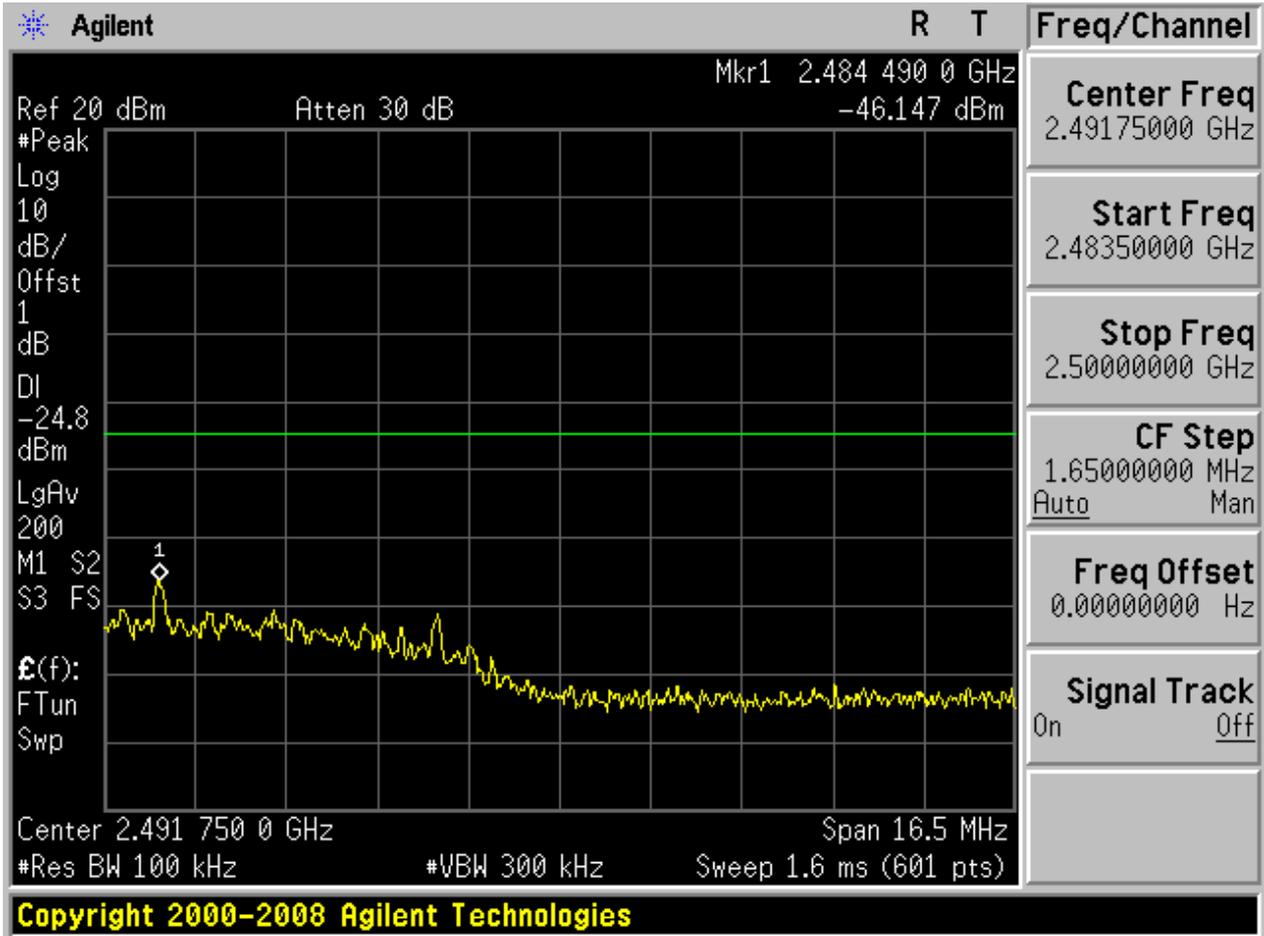
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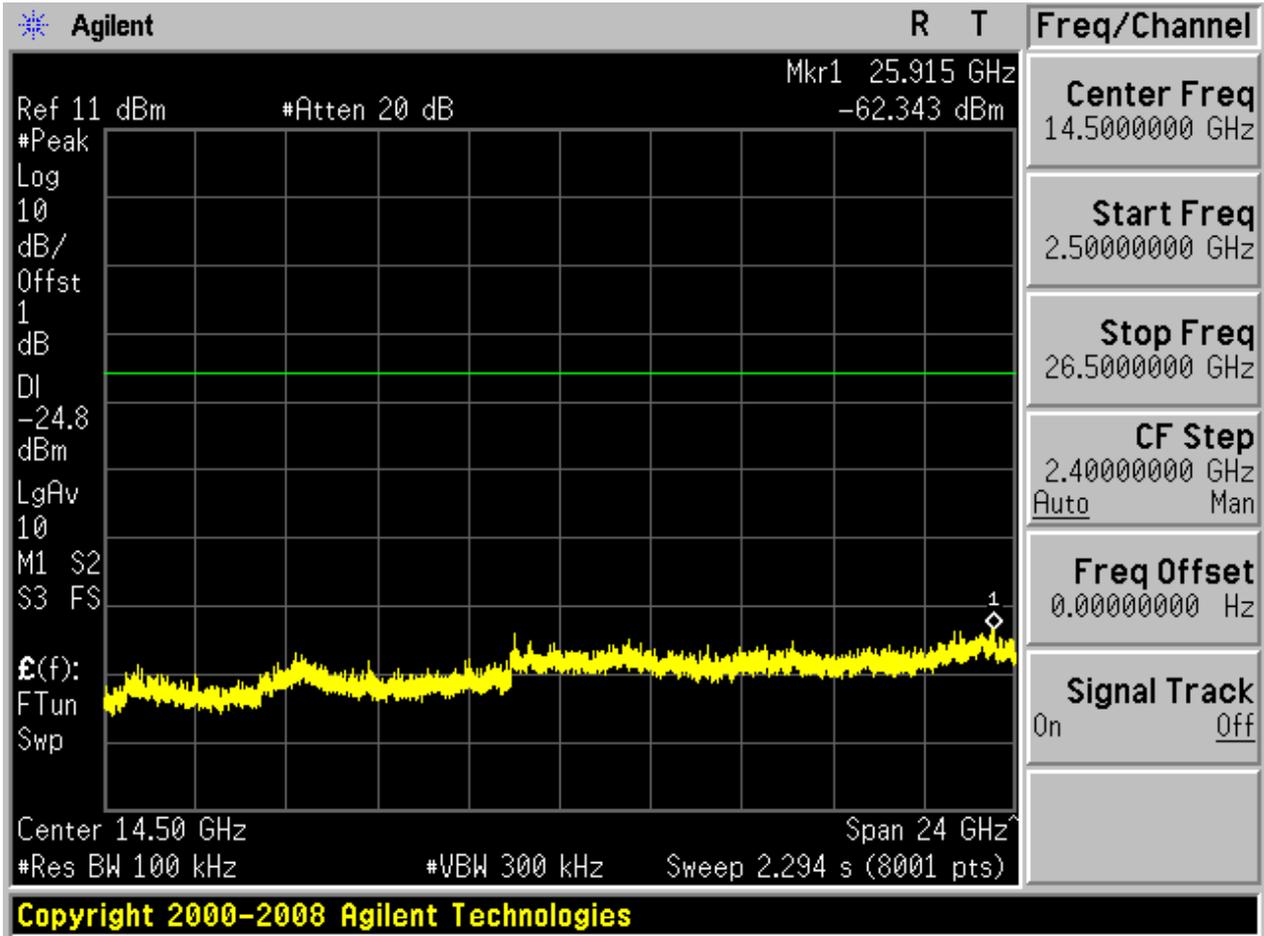






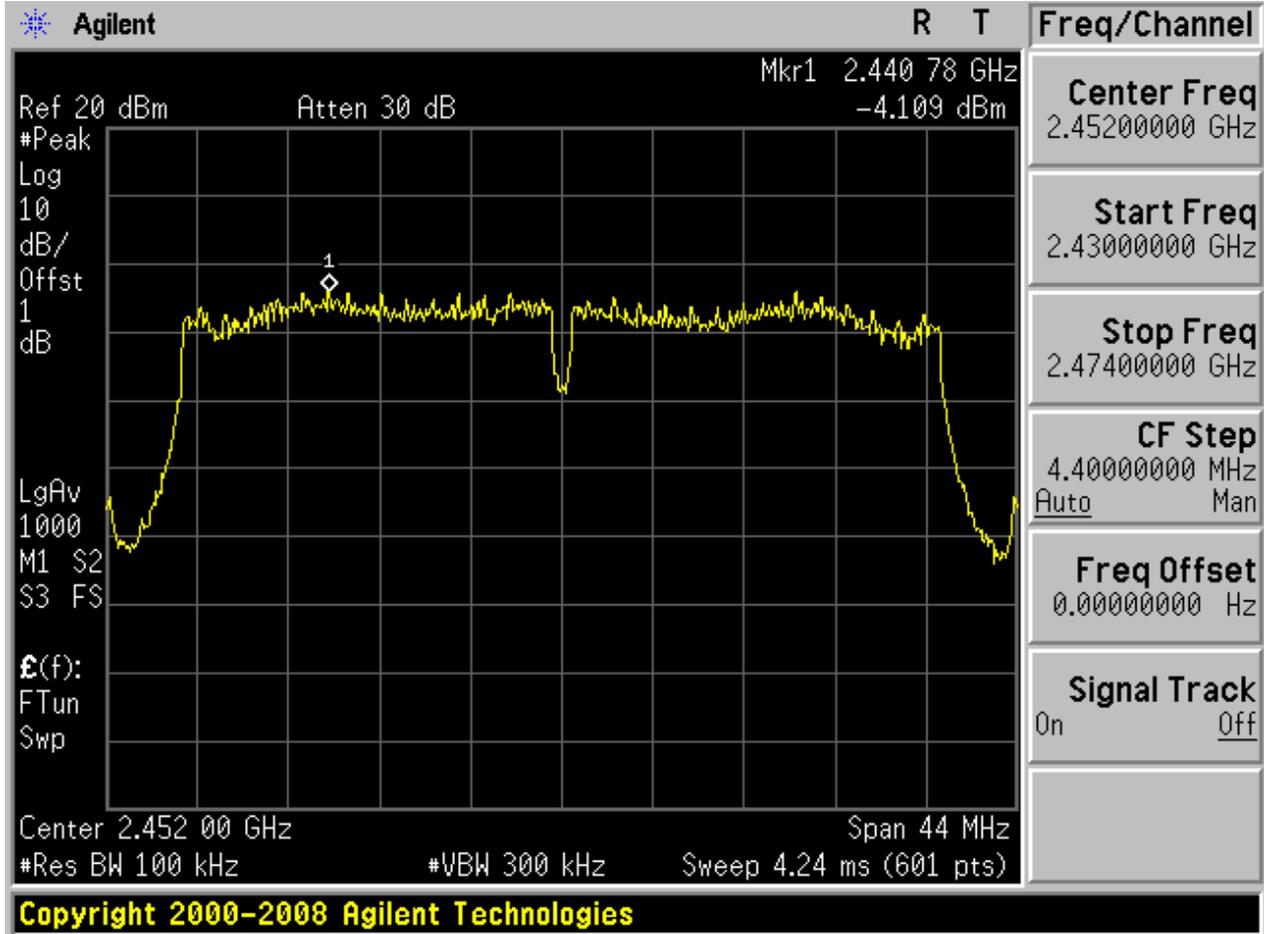




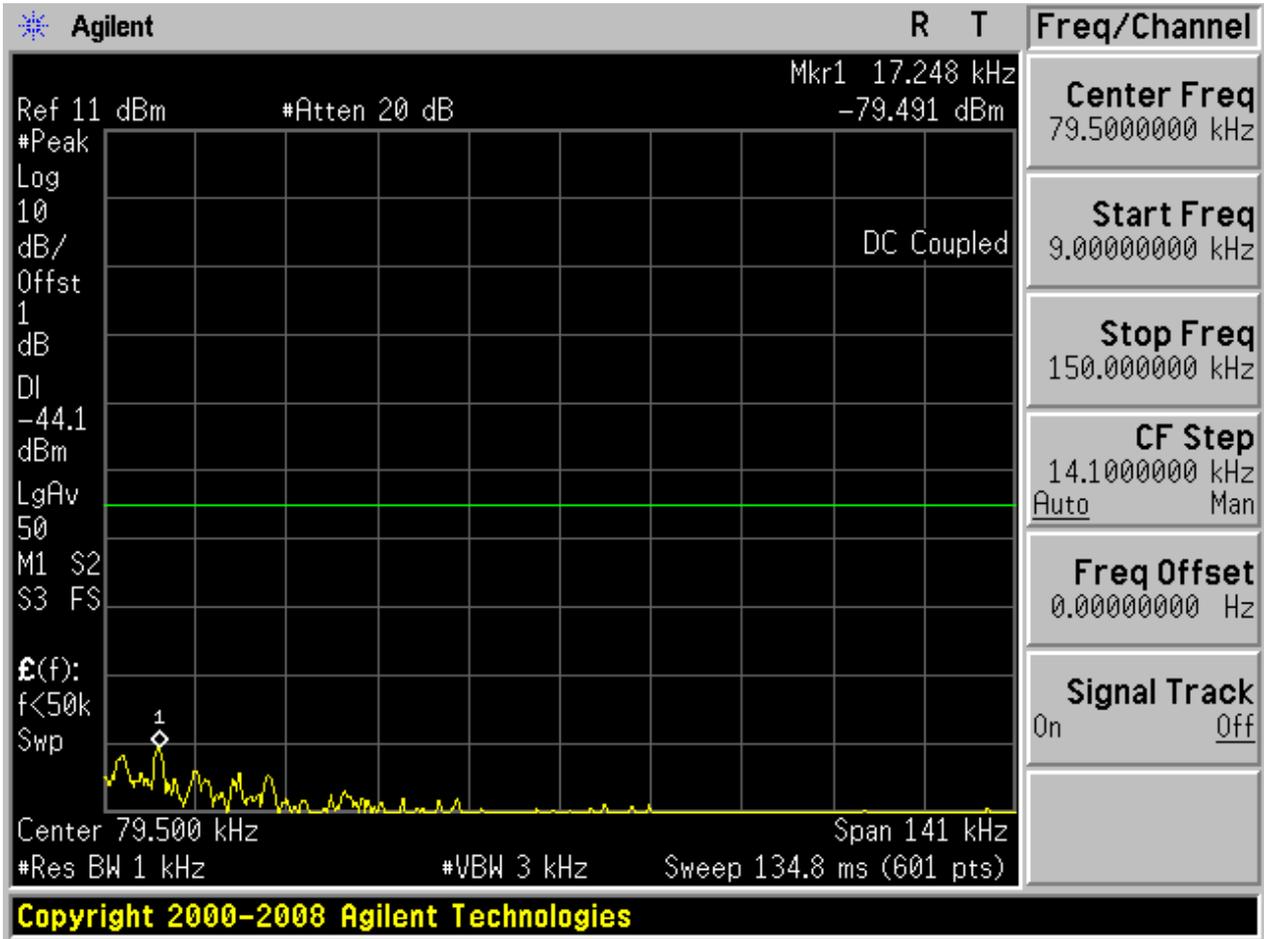


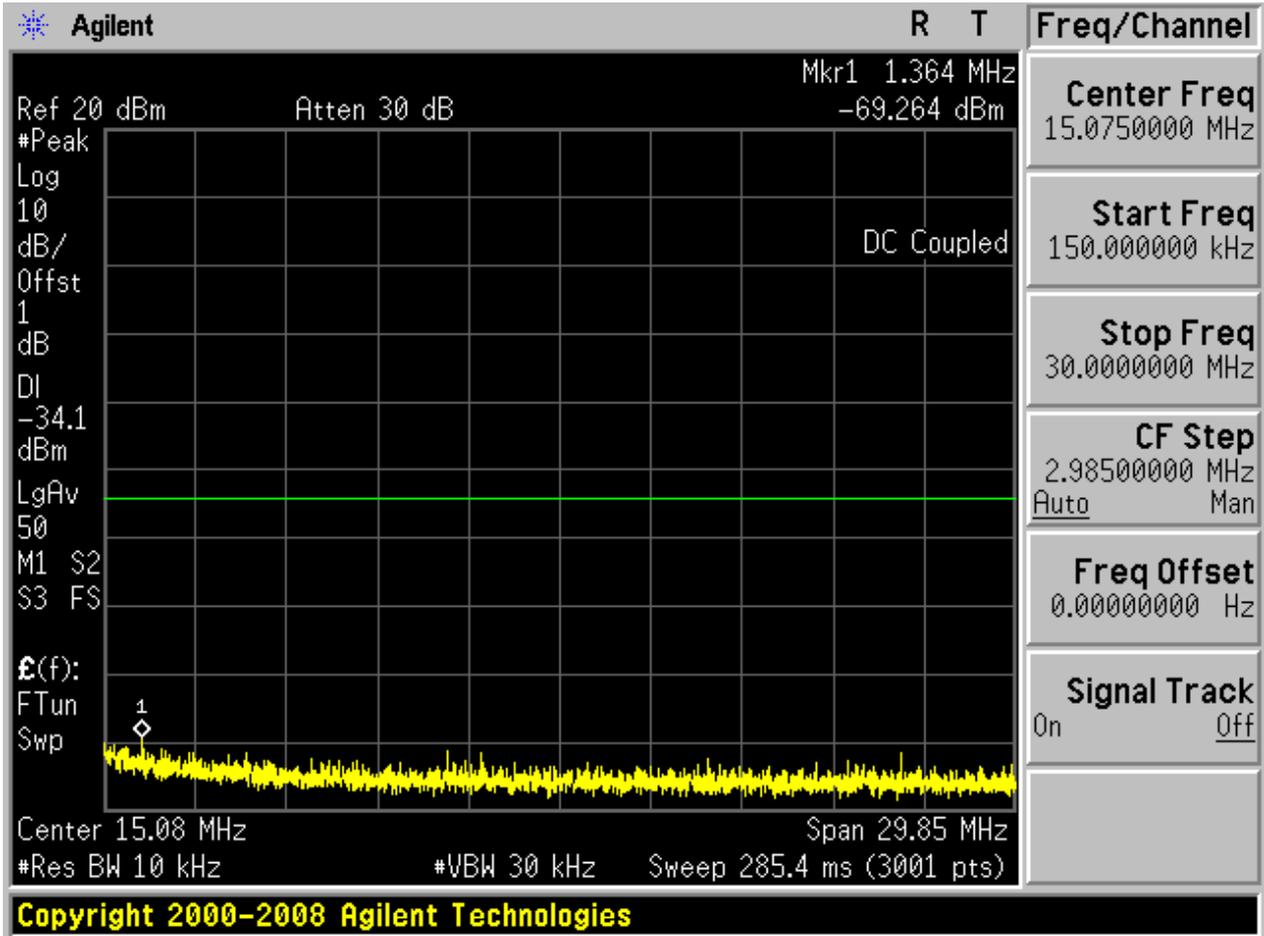
2.36 11N40m_H@Ant 2

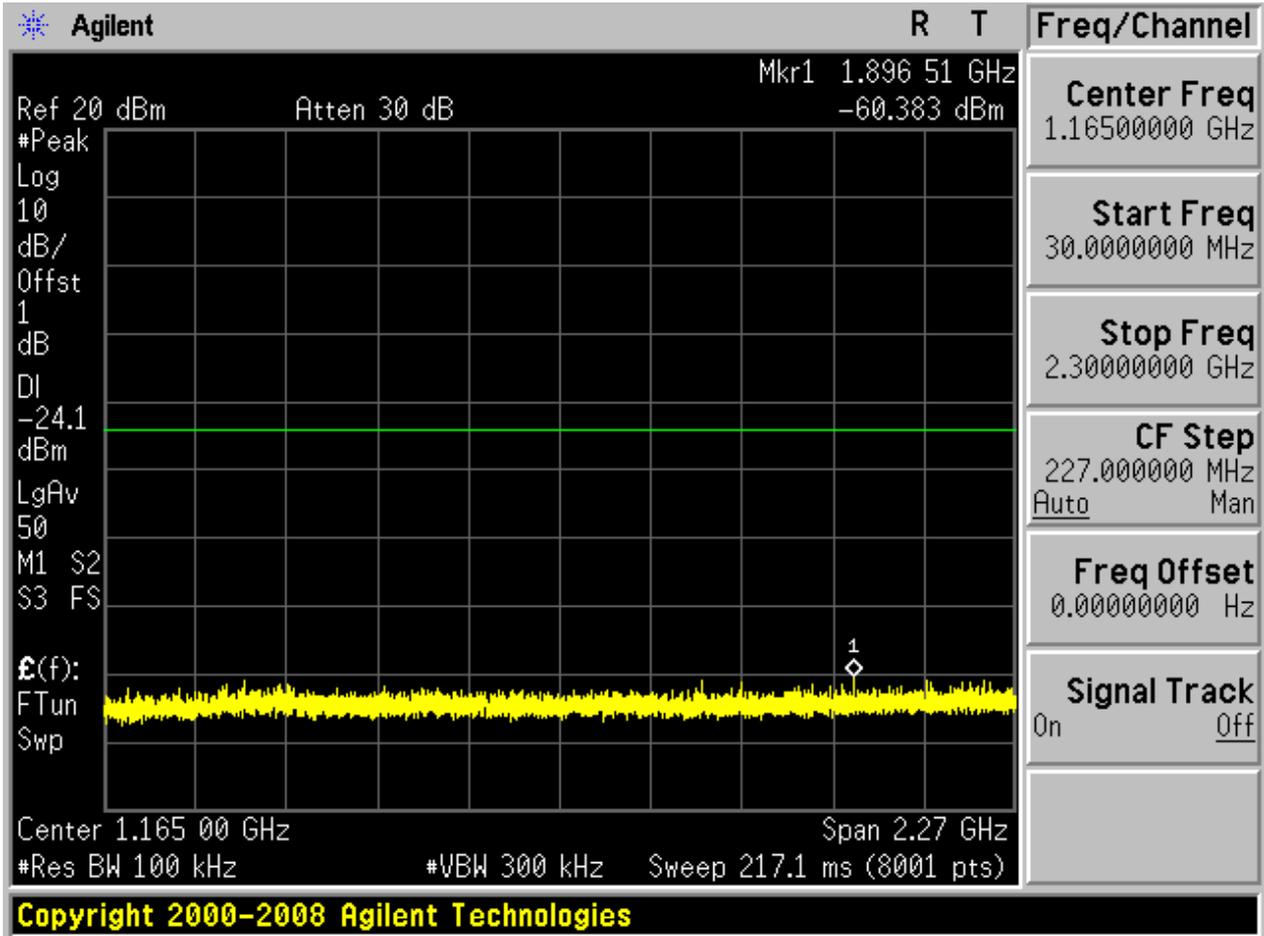
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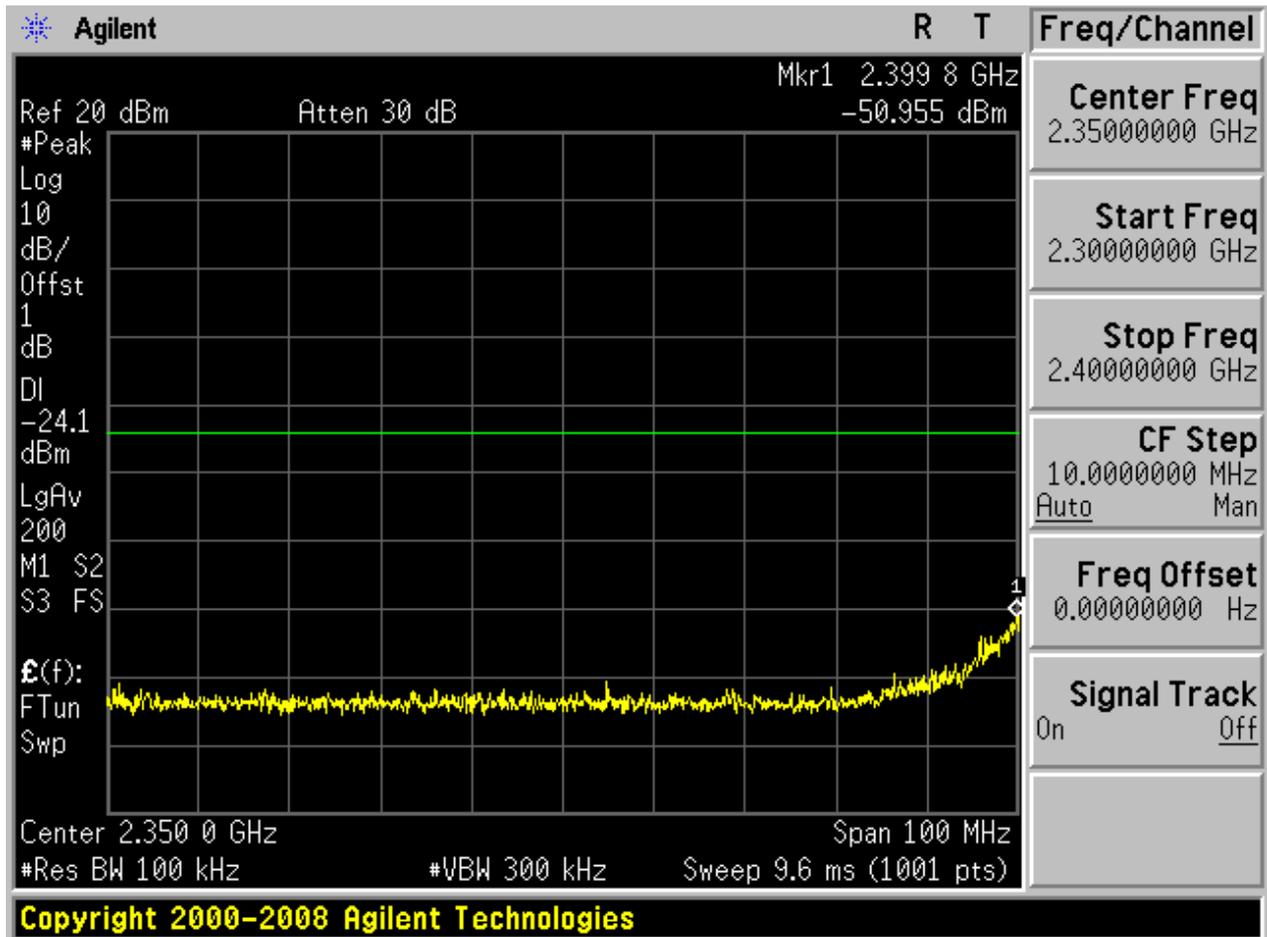


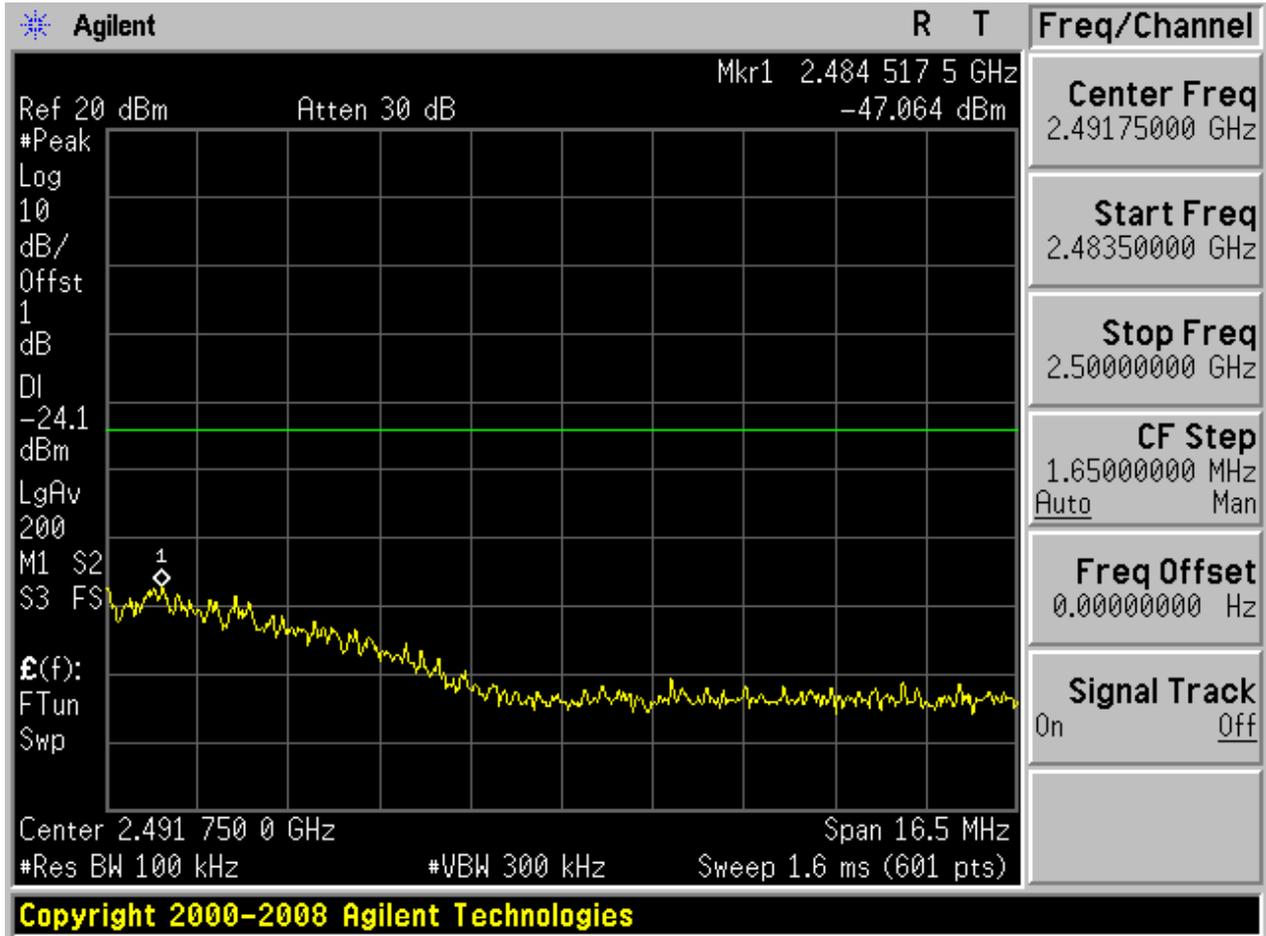
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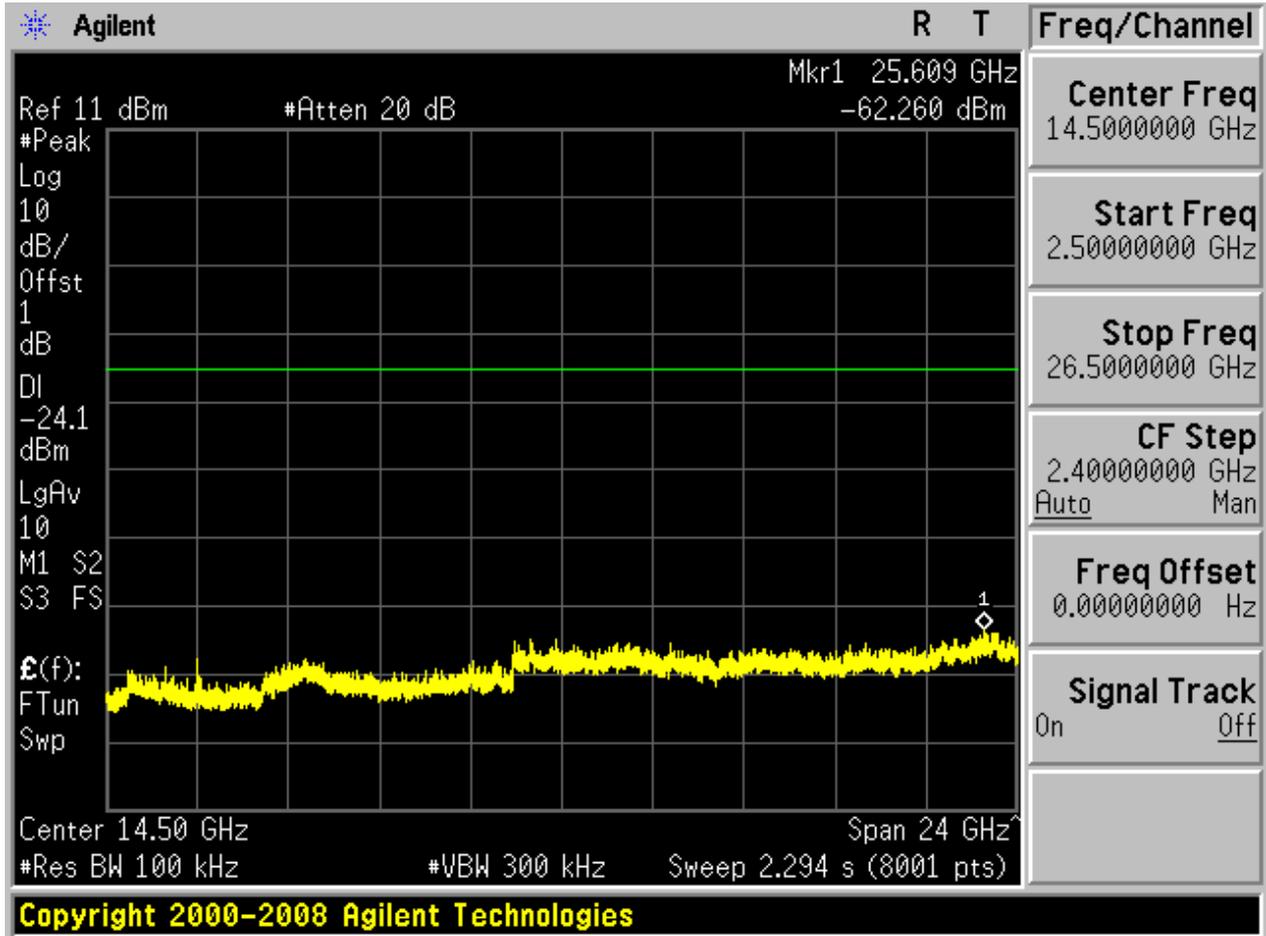










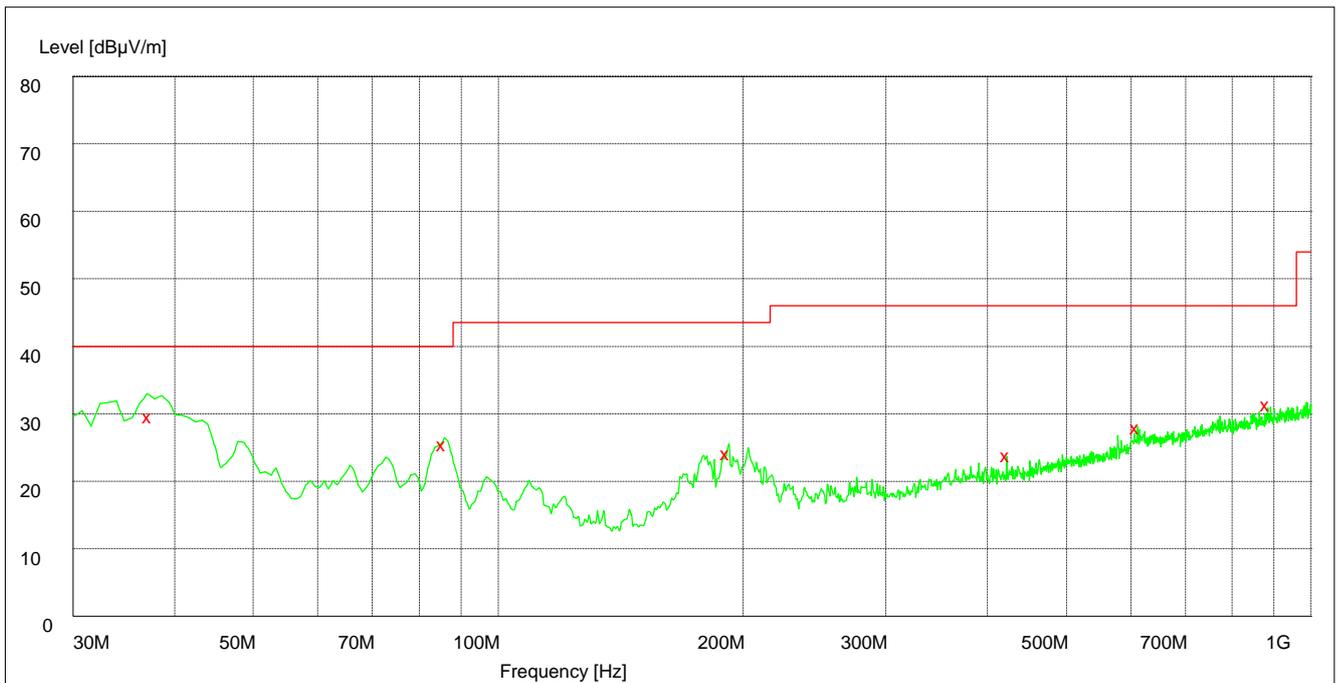


Appendix F: Unwanted Emissions into Restricted Frequency Bands (Radiated)

Part 1: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

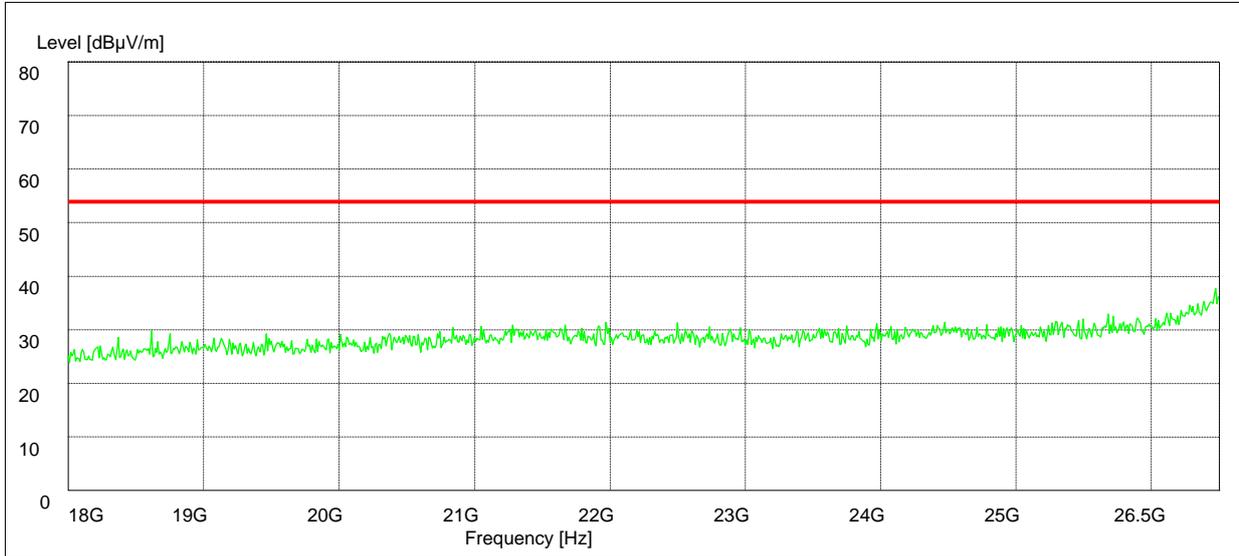
Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
37.320000	30.90	15.2	40.0	9.1	100.0	360.00	VERTICAL
85.980000	26.80	11.2	40.0	13.2	114.0	198.00	VERTICAL
192.000000	25.50	12.1	43.5	18.0	100.0	352.00	VERTICAL
423.540000	25.10	18.0	46.0	20.9	100.0	236.00	VERTICAL
611.640000	29.40	21.5	46.0	16.6	121.0	142.00	VERTICAL
884.940000	32.70	24.8	46.0	13.3	125.0	219.00	VERTICAL

Part 2: Testing Range of “18 GHz to 26.5 GHz”



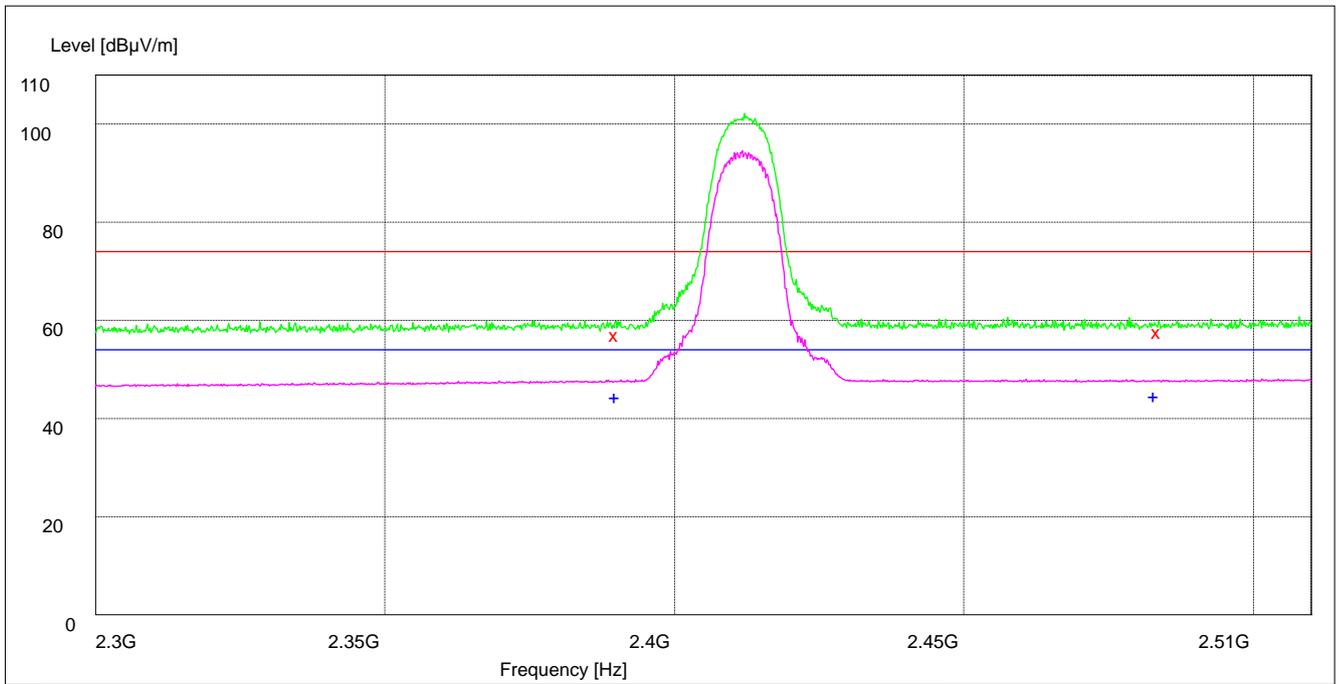
Note: No peak found in pre- test.

Part 3: Testing Range of “2.3GHz to 2.51GHz”

- Note 1: The testing range of “2.3 GHz to 2.51 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.
- Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).
- Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

Test Mode: 11B/ Antenna 1

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

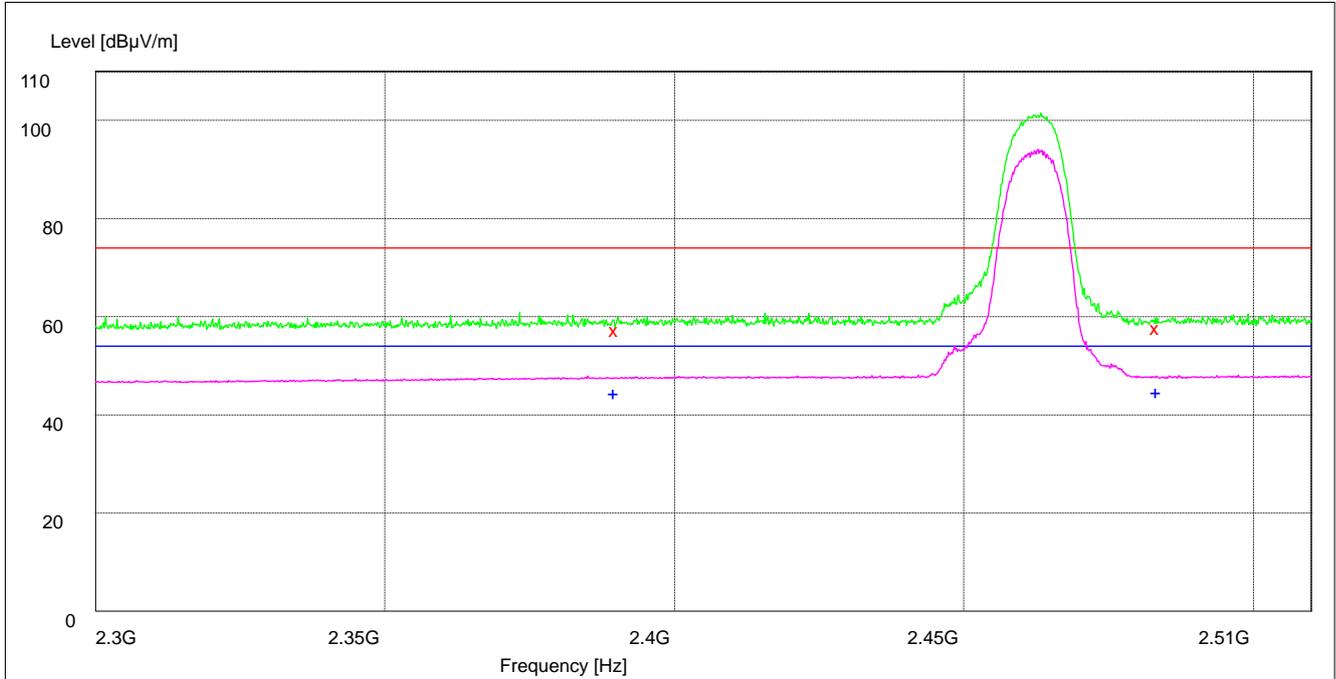
Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.90	34.8	74.0	15.1	150.0	42.00	VERTICAL
2483.500000	59.50	35.1	74.0	14.5	101.0	253.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	149.0	275.00	HORIZONTAL

2483.500000	46.50	35.1	54.0	7.5	100.0	263.00	VERTICAL
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Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

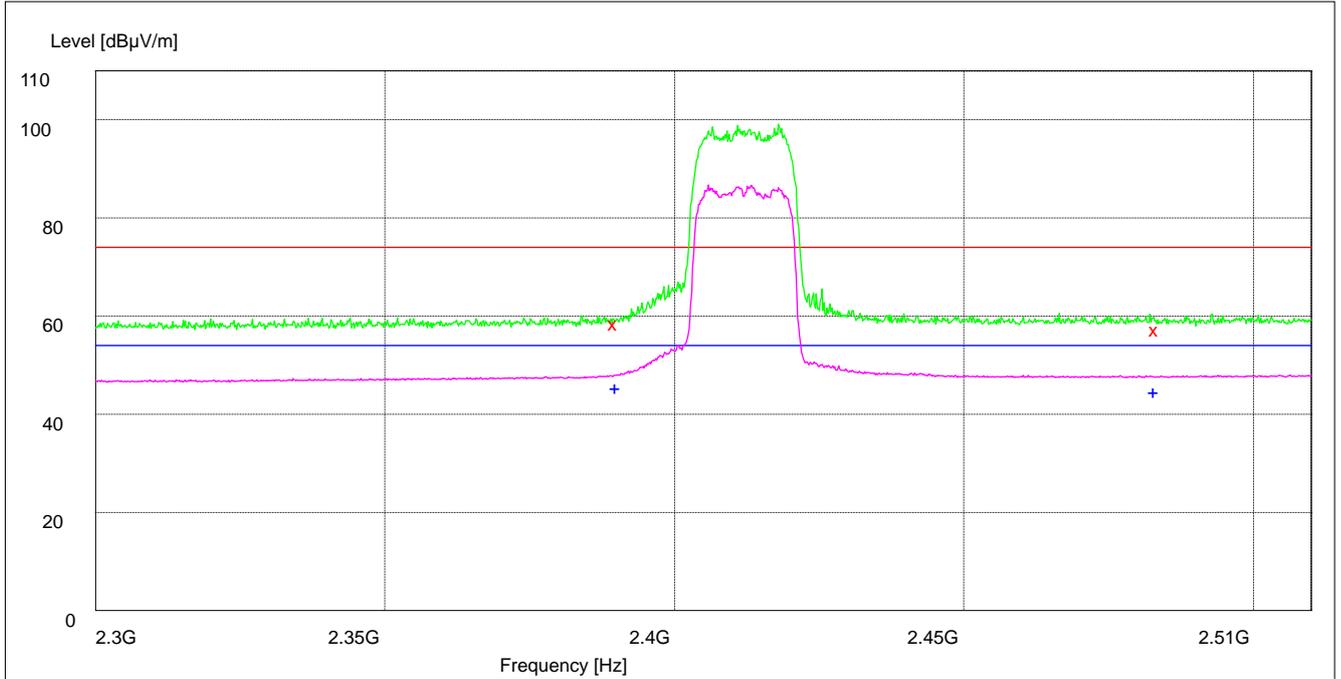
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.20	34.8	74.0	14.8	150.0	359.00	VERTICAL
2483.500000	59.60	35.1	74.0	14.4	150.0	31.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	104.0	105.00	VERTICAL
2483.500000	46.50	35.1	54.0	7.5	104.0	359.00	HORIZONTAL

Test Mode: 11G/ Antenna 1

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

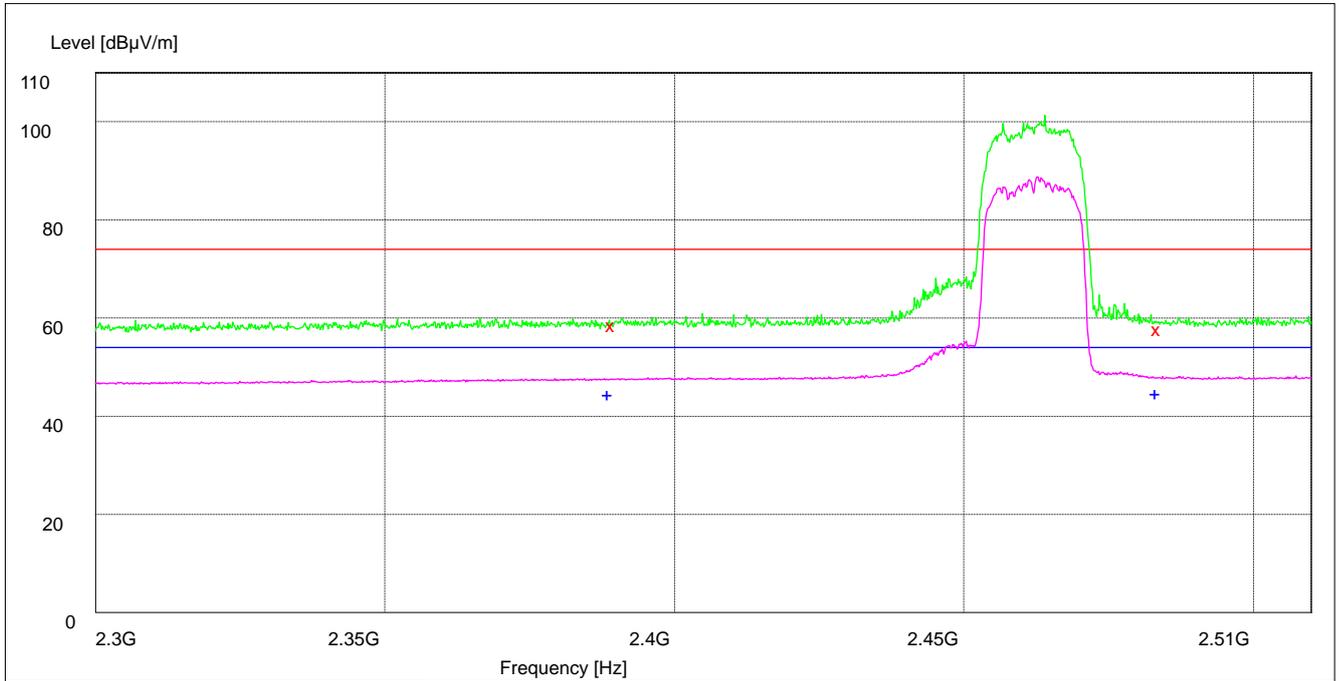
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.20	34.8	74.0	13.8	100.0	242.00	HORIZONTAL
2483.500000	59.00	35.1	74.0	15.0	115.0	154.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.30	34.8	54.0	6.7	111.0	168.00	VERTICAL
2483.500000	46.50	35.1	54.0	7.5	107.0	102.00	VERTICAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

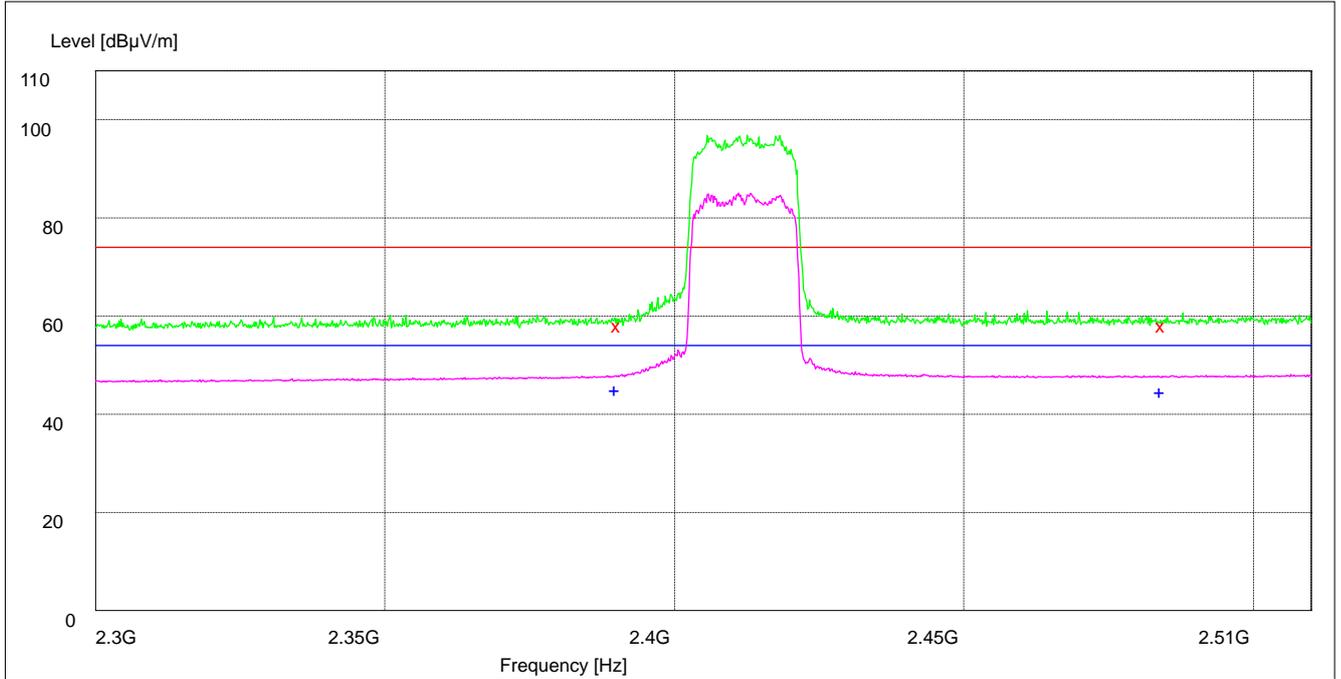
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.30	34.8	74.0	13.7	107.0	315.00	VERTICAL
2483.500000	59.70	35.1	74.0	14.3	100.0	96.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	150.0	213.00	VERTICAL
2483.500000	46.70	35.1	54.0	7.3	100.0	125.00	HORIZONTAL

Test Mode: 11N-20M/SISO-Antenna 1

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

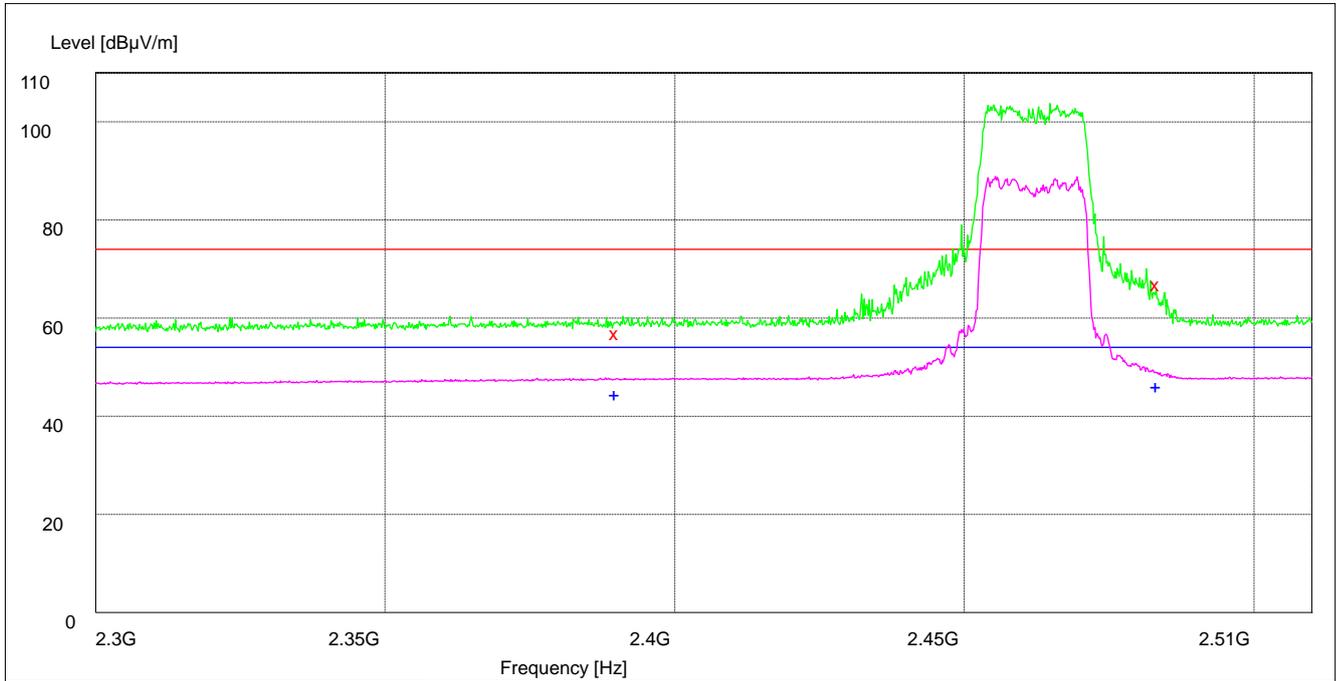
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.80	34.8	74.0	14.2	134.0	234.00	HORIZONTAL
2483.500000	59.90	35.1	74.0	14.1	149.0	173.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.90	34.8	54.0	7.1	120.0	345.00	VERTICAL
2483.500000	46.50	35.1	54.0	7.5	100.0	0.00	VERTICAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

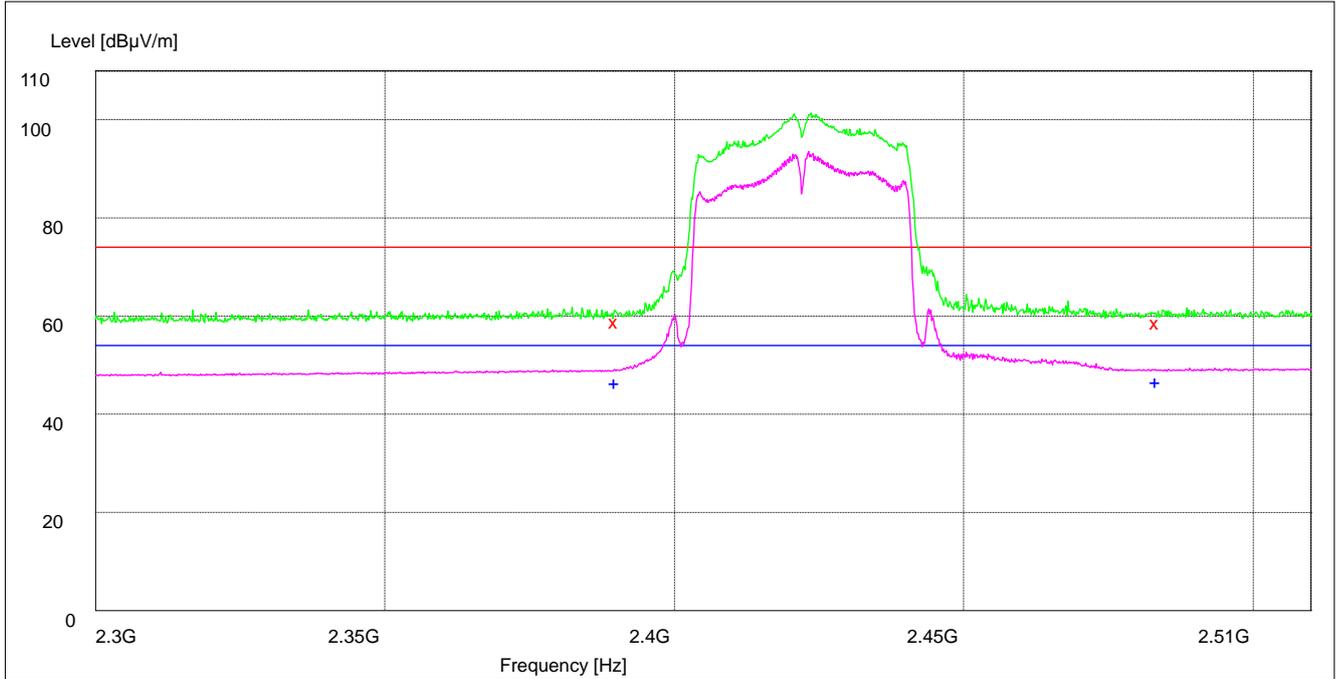
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.80	34.8	74.0	15.2	112.0	54.00	VERTICAL
2483.500000	68.80	35.1	74.0	5.2	100.0	149.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.50	34.8	54.0	7.5	100.0	142.00	HORIZONTAL
2483.500000	48.00	35.1	54.0	6.0	101.0	164.00	HORIZONTAL

Test Mode: 11N-40M/SISO-Antenna 1

Channel 03



Note: The peak exceeds the limit line is carrier frequency.

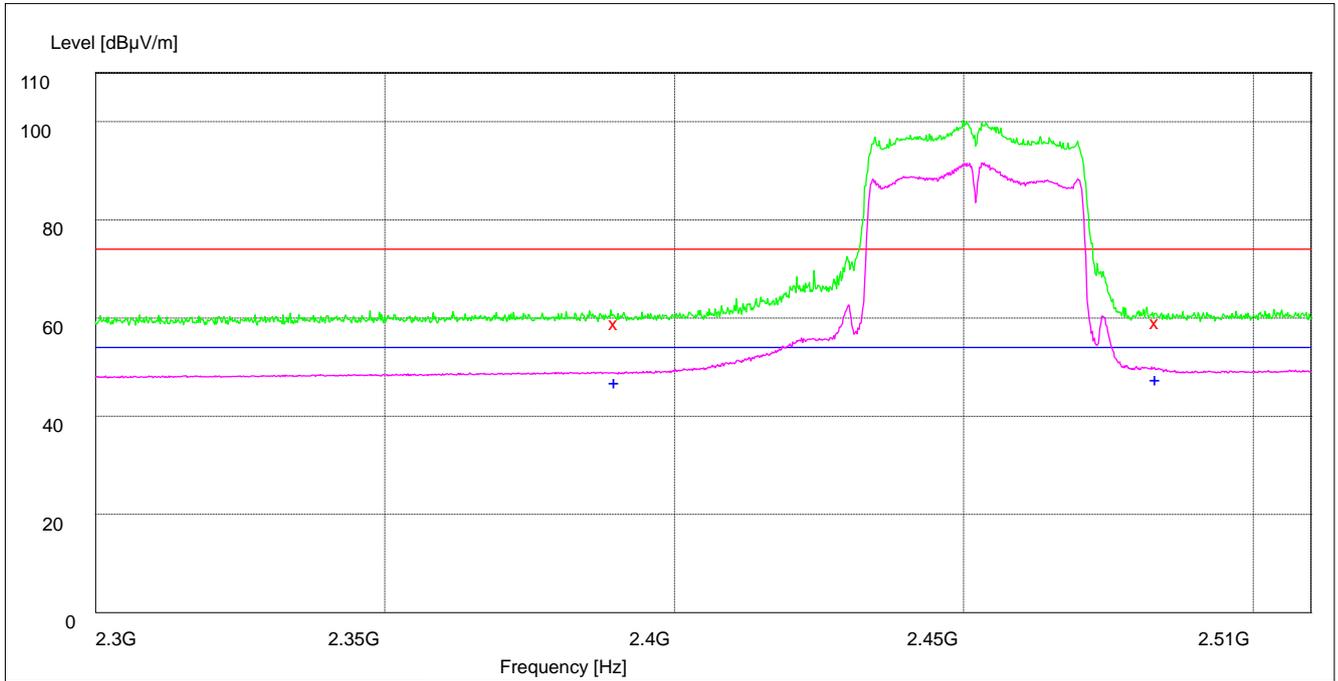
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.80	34.8	74.0	13.7	138.0	354.00	VERTICAL
2483.500000	60.60	35.1	74.0	13.4	100.0	41.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.40	34.8	54.0	5.6	109.0	36.00	VERTICAL
2483.500000	48.50	35.1	54.0	5.5	100.0	218.00	HORIZONTAL

Channel 09



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

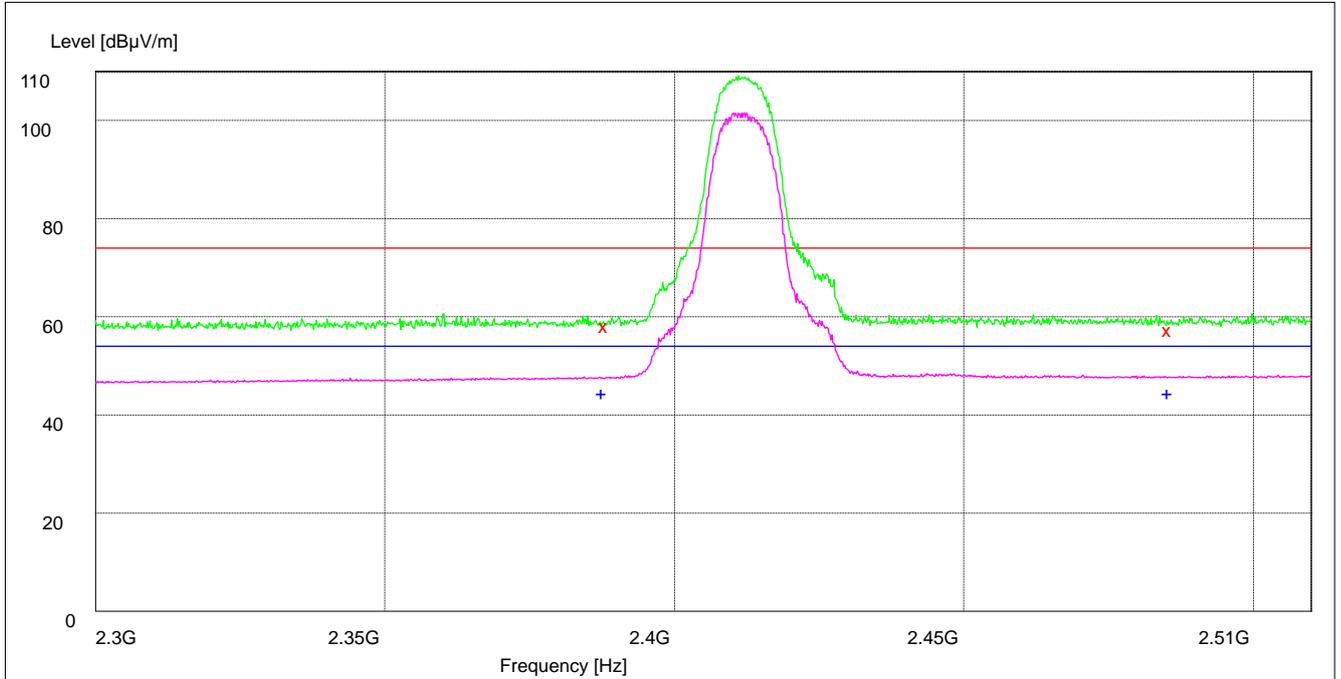
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.80	34.8	74.0	13.2	100.0	133.00	VERTICAL
2483.500000	61.00	35.1	74.0	13.0	100.0	220.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.90	34.8	54.0	5.1	150.0	173.00	VERTICAL
2483.500000	49.30	35.1	54.0	4.7	100.0	221.00	HORIZONTAL

Test Mode: 11B/ Antenna 2

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

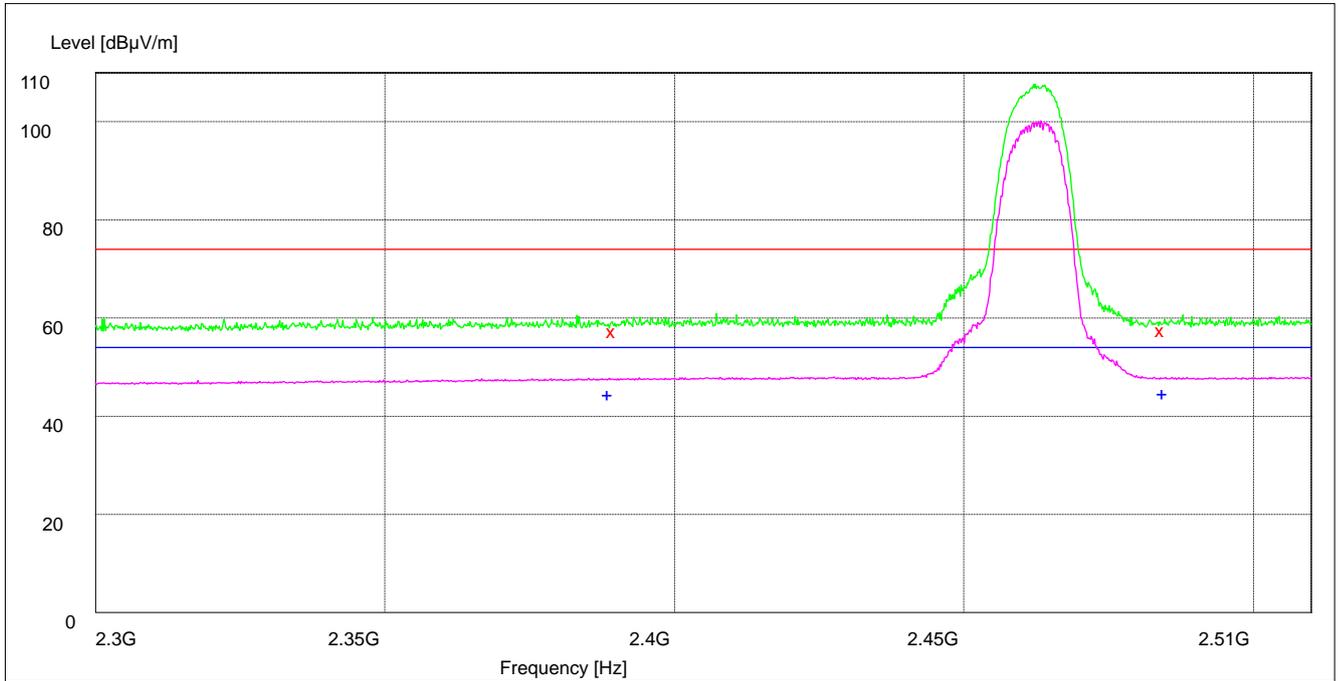
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.90	34.8	74.0	14.1	124.0	221.00	HORIZONTAL
2483.500000	59.10	35.1	74.0	14.9	149.0	4.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	105.0	236.00	HORIZONTAL
2483.500000	46.50	35.1	54.0	7.5	137.0	68.00	HORIZONTAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

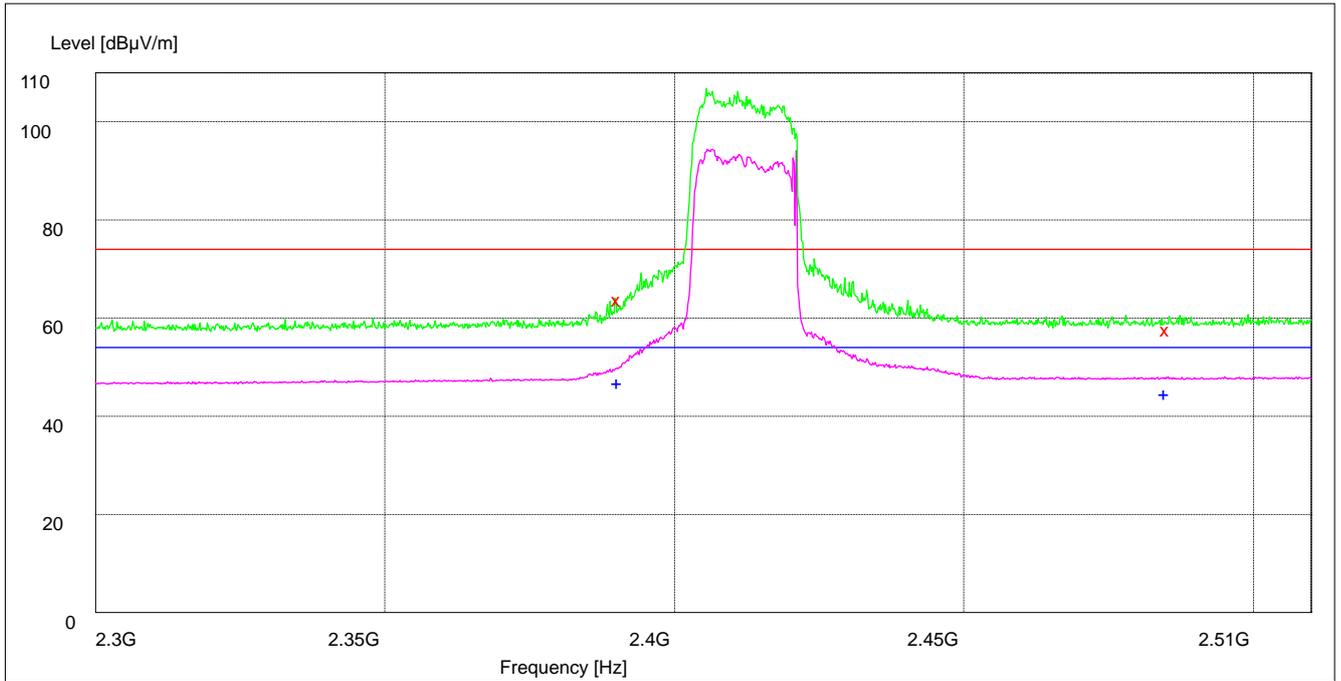
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.20	34.8	74.0	14.8	147.0	83.00	VERTICAL
2483.500000	59.30	35.1	74.0	14.7	150.0	112.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	126.0	273.00	HORIZONTAL
2483.500000	46.50	35.1	54.0	7.5	109.0	330.00	HORIZONTAL

Test Mode: 11G/ Antenna 2

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

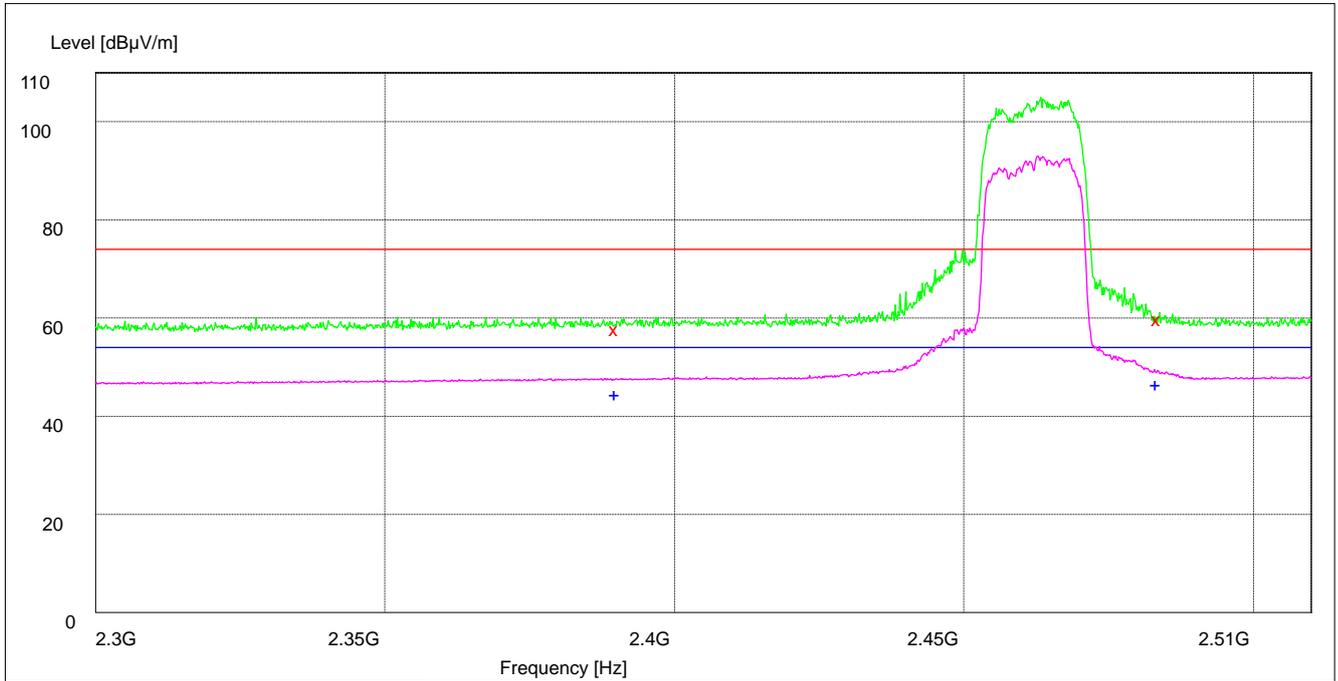
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	65.60	34.8	74.0	8.4	103.0	158.00	HORIZONTAL
2483.500000	59.60	35.1	74.0	14.4	100.0	318.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.70	34.8	54.0	5.3	103.0	154.00	HORIZONTAL
2483.500000	46.50	35.1	54.0	7.5	150.0	332.00	HORIZONTAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

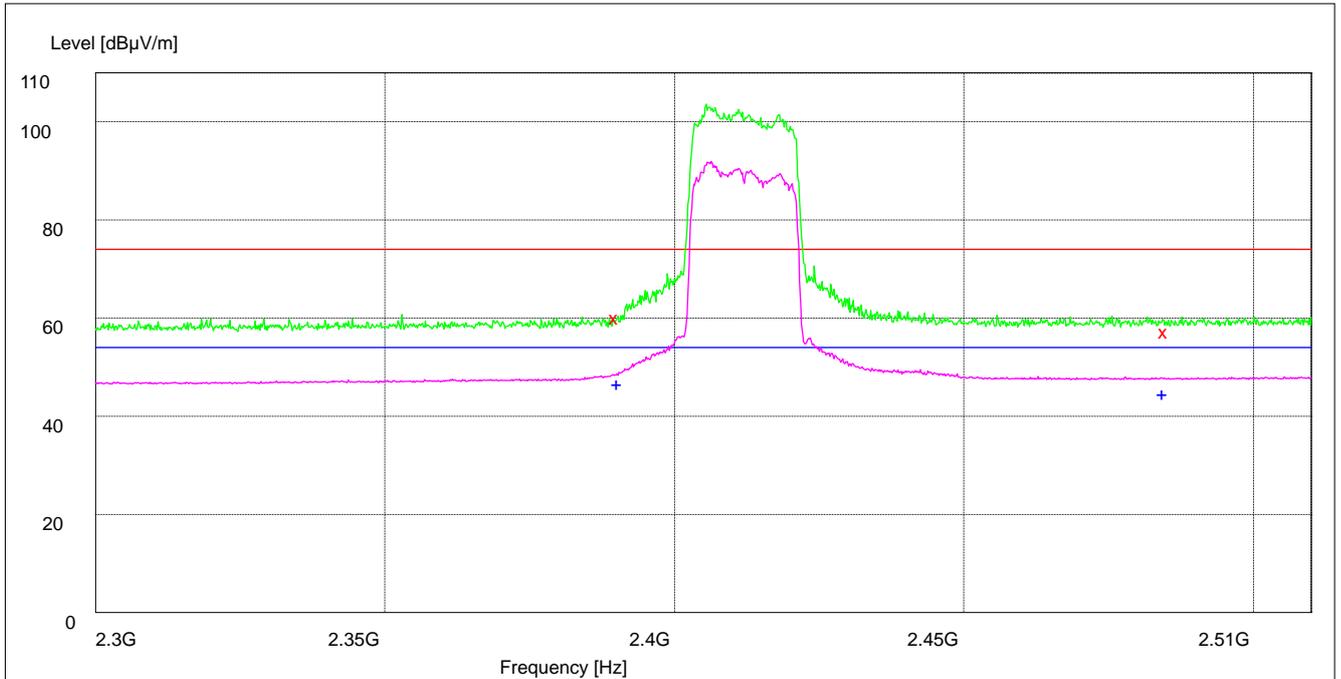
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.70	34.8	74.0	14.3	148.0	187.00	HORIZONTAL
2483.500000	61.70	35.1	74.0	12.3	100.0	145.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	132.0	237.00	HORIZONTAL
2483.500000	48.30	35.1	54.0	5.7	100.0	156.00	HORIZONTAL

Test Mode: 11N-20M/SISO-Antenna 2

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

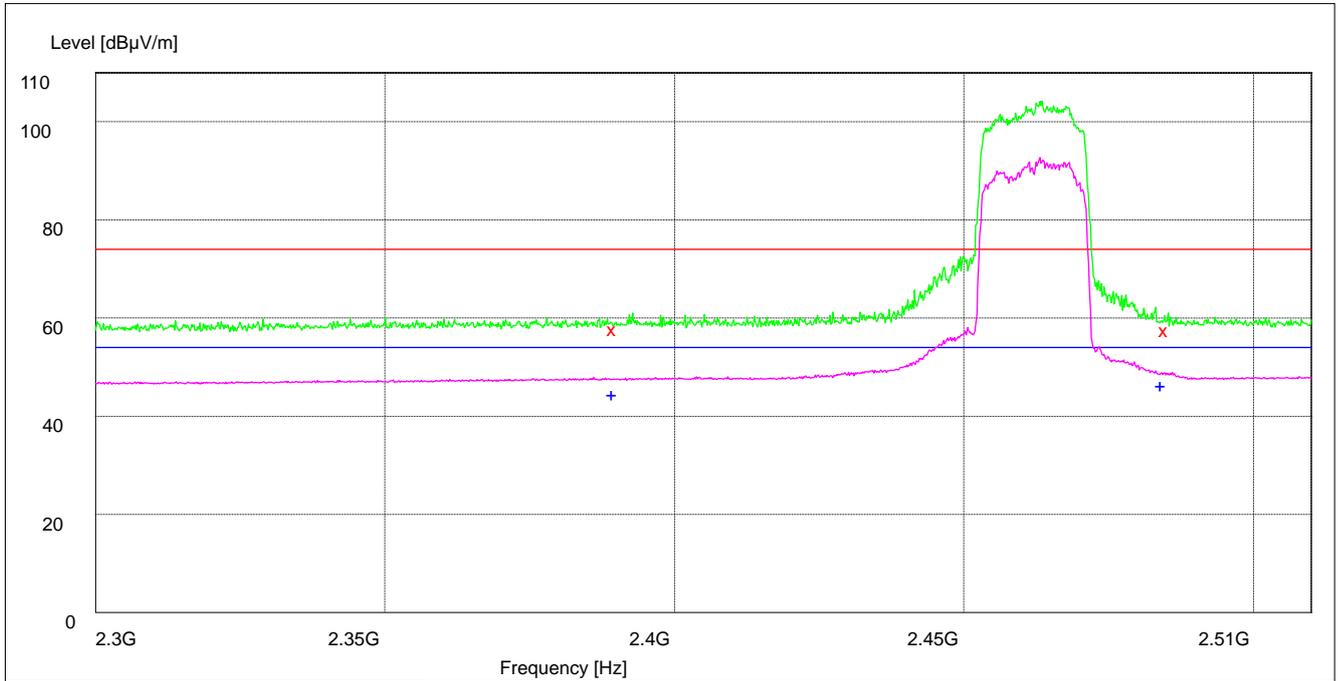
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	61.90	34.8	74.0	12.1	100.0	148.00	HORIZONTAL
2483.500000	59.00	35.1	74.0	15.0	138.0	78.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.60	34.8	54.0	5.4	100.0	155.00	HORIZONTAL
2483.500000	46.50	35.1	54.0	7.5	150.0	134.00	HORIZONTAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

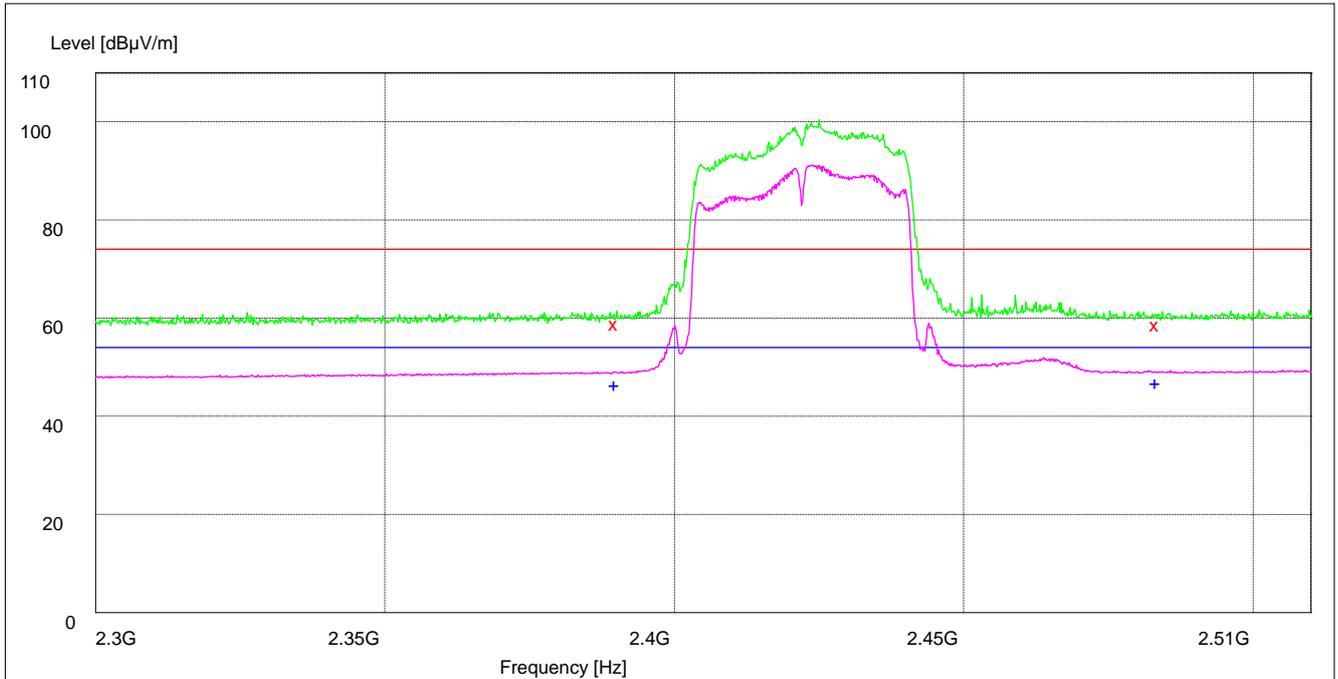
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.70	34.8	74.0	14.3	142.0	139.00	HORIZONTAL
2483.500000	59.40	35.1	74.0	14.6	115.0	270.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	100.0	76.00	HORIZONTAL
2483.500000	48.10	35.1	54.0	5.9	100.0	151.00	HORIZONTAL

Test Mode: 11N-40M/SISO-Antenna 2

Channel 03



Note: The peak exceeds the limit line is carrier frequency.

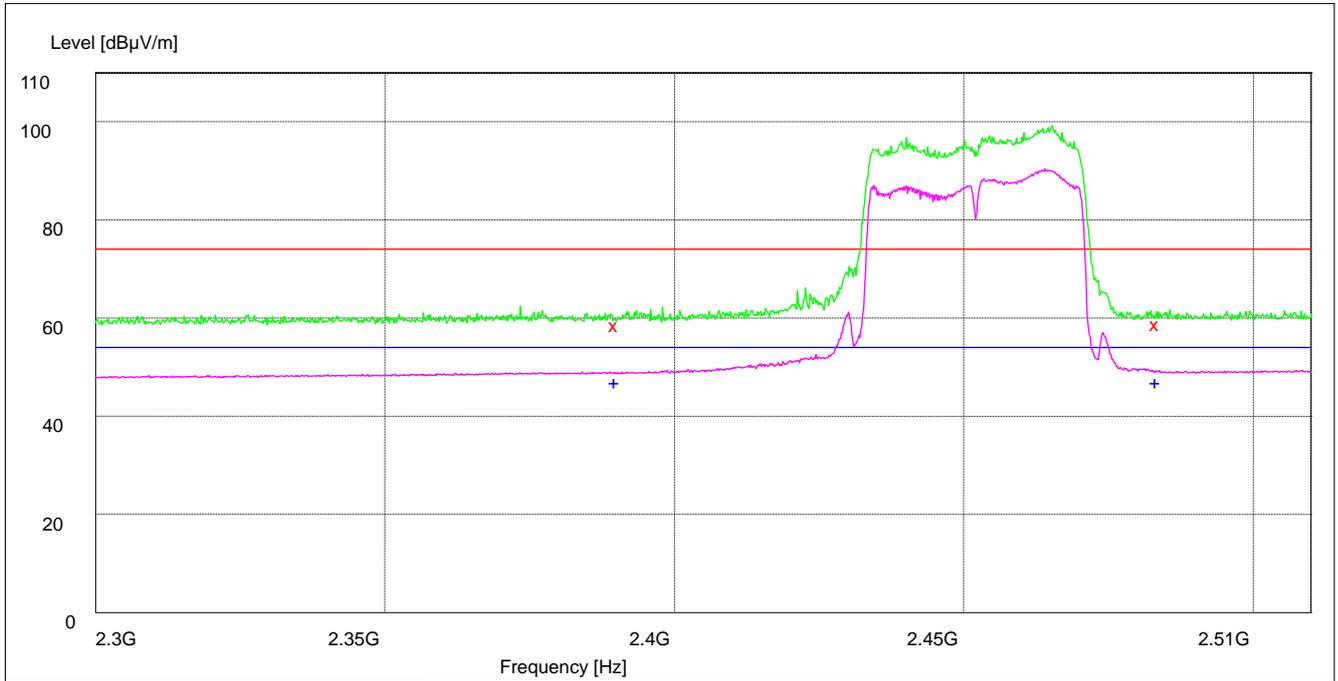
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.70	34.8	74.0	13.3	147.0	246.00	VERTICAL
2483.500000	60.60	35.1	74.0	13.4	100.0	104.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.30	34.8	54.0	5.7	100.0	138.00	HORIZONTAL
2483.500000	48.70	35.1	54.0	5.3	100.0	183.00	VERTICAL

Channel 09



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

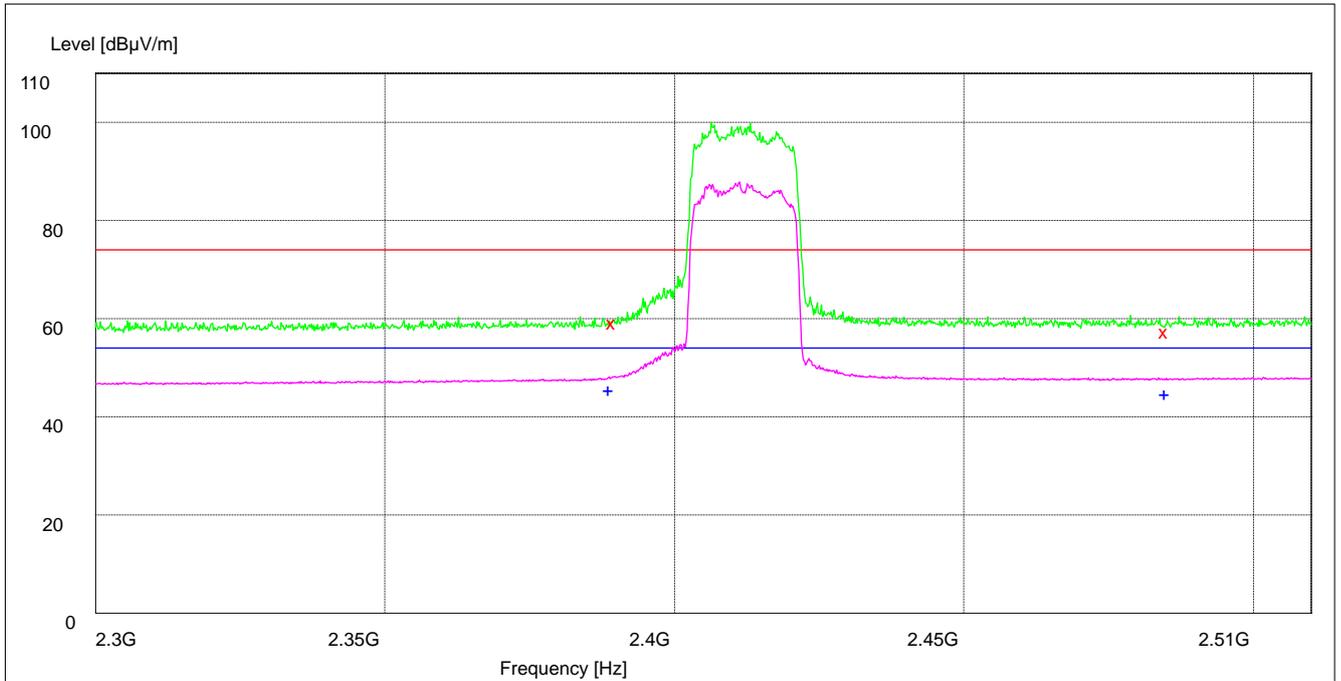
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.40	34.8	74.0	13.6	139.0	186.00	HORIZONTAL
2483.500000	60.60	35.1	74.0	13.4	122.0	344.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.80	34.8	54.0	5.2	101.0	262.00	VERTICAL
2483.500000	48.90	35.1	54.0	5.1	150.0	120.00	VERTICAL

Test Mode: 11N-20M/MIMO

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

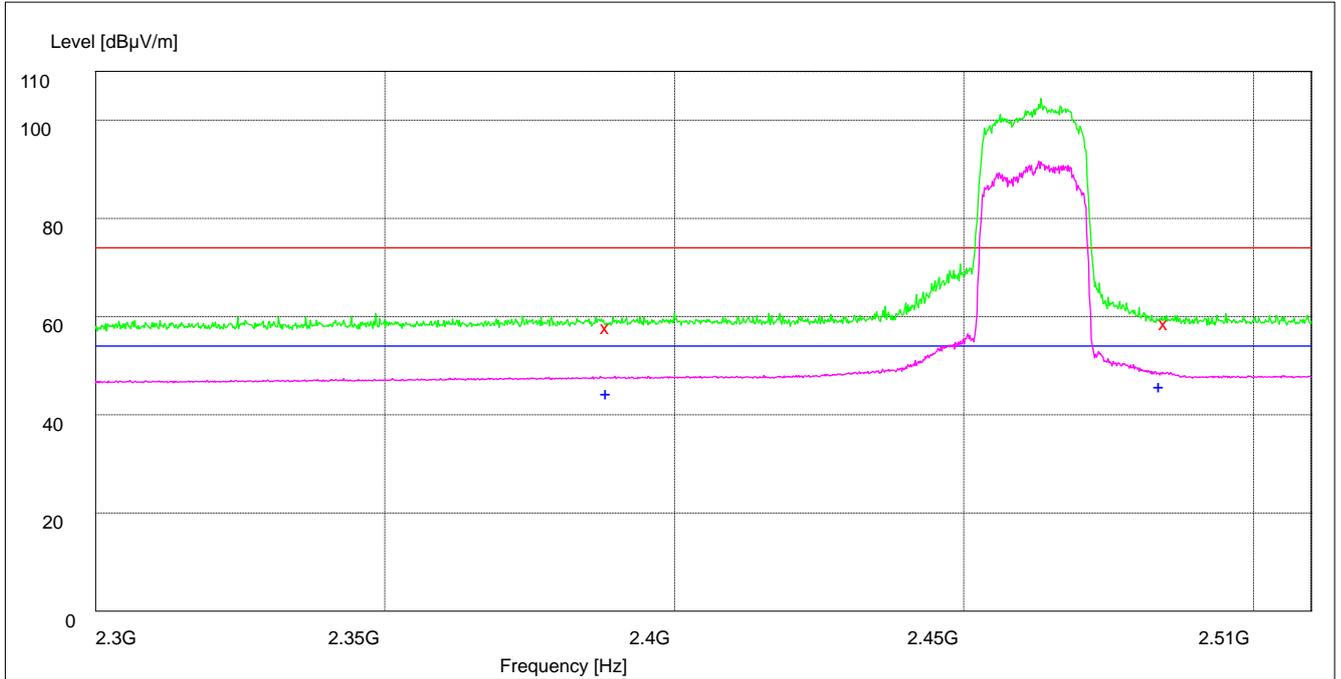
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	61.00	34.8	74.0	13.0	101.0	212.00	HORIZONTAL
2483.500000	59.30	35.1	74.0	14.7	118.0	347.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.40	34.8	54.0	6.6	100.0	209.00	HORIZONTAL
2483.500000	46.50	35.1	54.0	7.5	100.0	257.00	VERTICAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

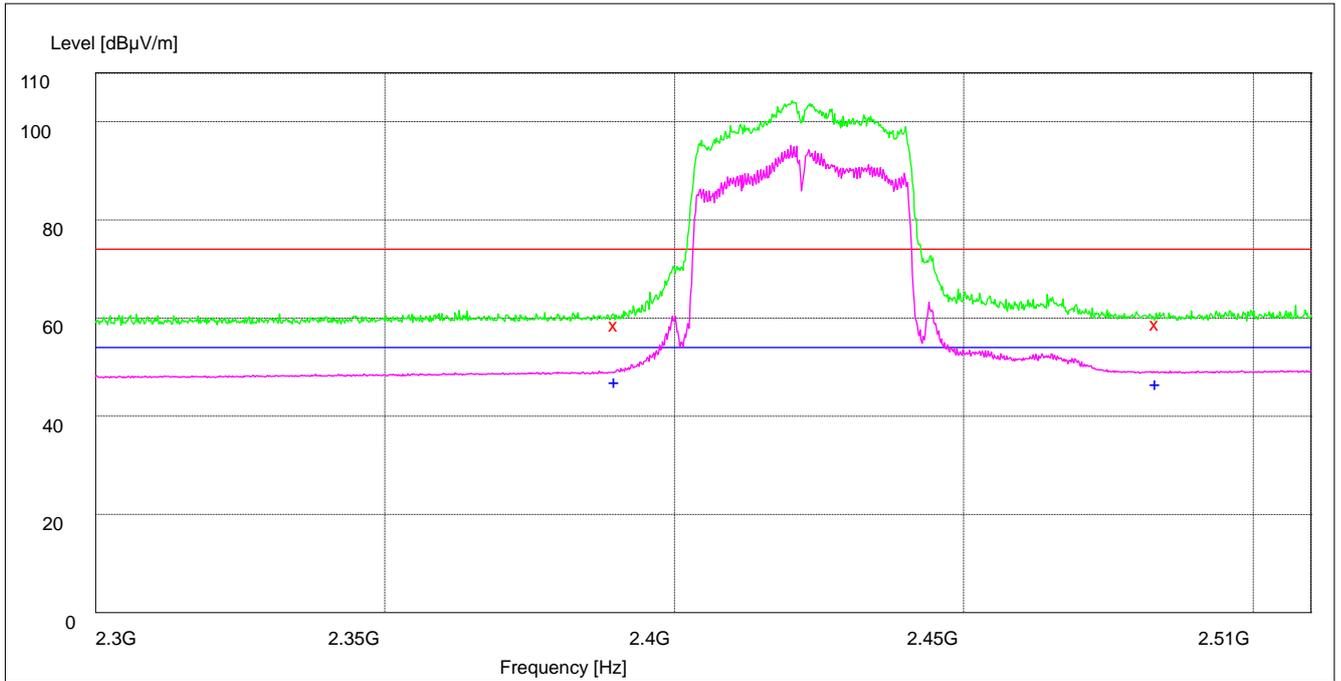
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.70	34.8	74.0	14.3	150.0	49.00	HORIZONTAL
2483.500000	60.50	35.1	74.0	13.5	100.0	181.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.40	34.8	54.0	7.6	138.0	117.00	VERTICAL
2483.500000	47.70	35.1	54.0	6.3	100.0	157.00	HORIZONTAL

Test Mode: 11N-40M/MIMO

Channel 03



Note: The peak exceeds the limit line is carrier frequency.

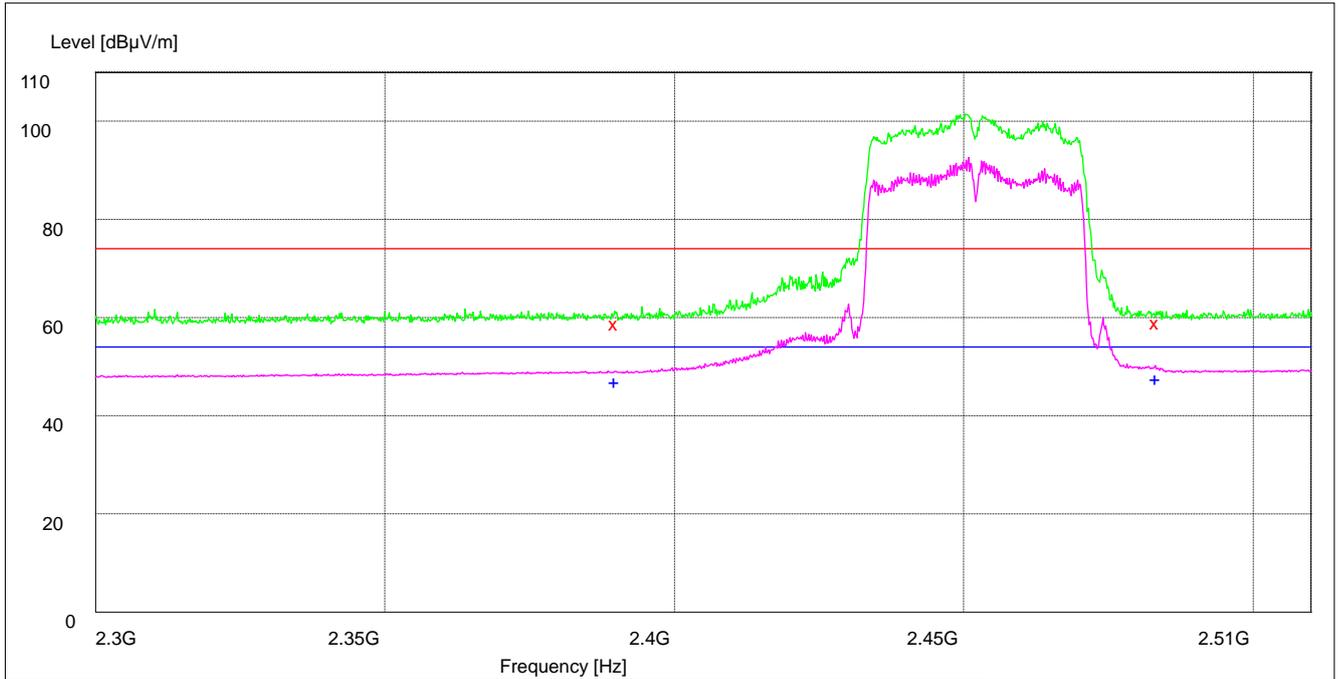
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.60	34.8	74.0	13.4	100.0	42.00	VERTICAL
2483.500000	60.70	35.1	74.0	13.3	150.0	175.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.90	34.8	54.0	5.1	103.0	136.00	VERTICAL
2483.500000	48.50	35.1	54.0	5.5	103.0	219.00	HORIZONTAL

Channel 09



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

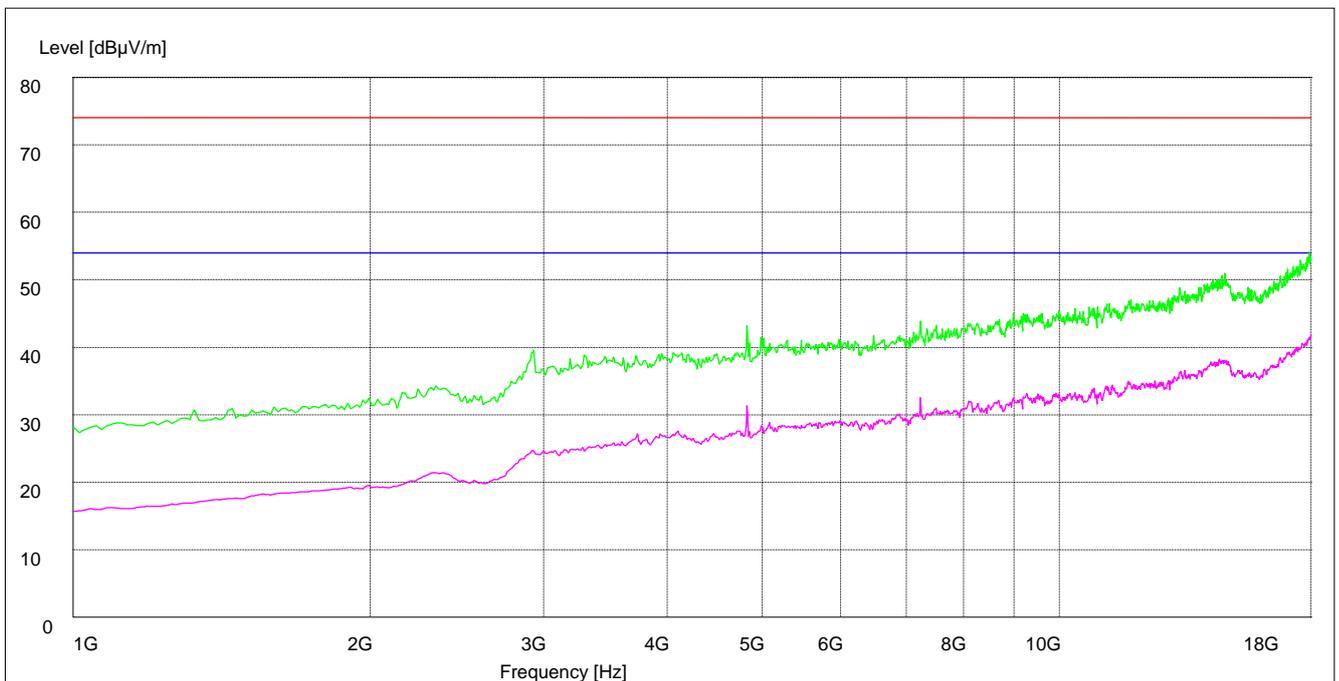
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.70	34.8	74.0	13.3	103.0	5.00	HORIZONTAL
2483.500000	60.80	35.1	74.0	13.2	103.0	260.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.90	34.8	54.0	5.1	126.0	28.00	VERTICAL
2483.500000	49.50	35.1	54.0	4.5	100.0	221.00	HORIZONTAL

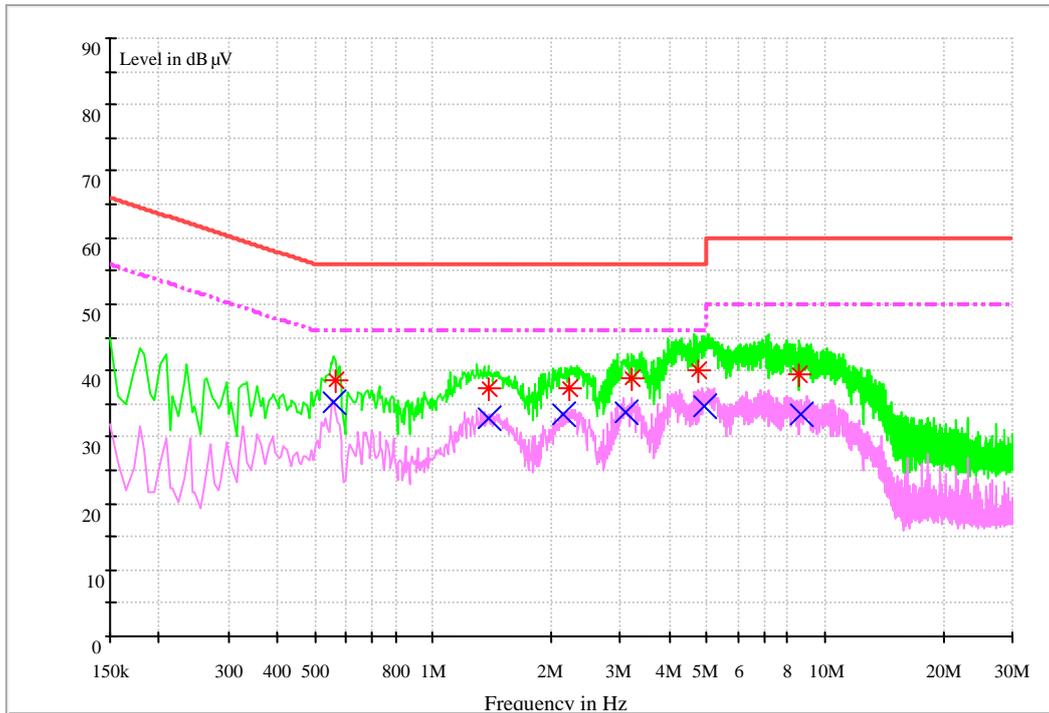
Part 4: Testing Range of “1 GHz to 18 GHz”

- Note 1: The test results and plot for testing range of “1 GHz to 18 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “1 GHz to 18 GHz” is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).



Appendix G: AC Power Line Conducted Emissions

Channel 6



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.565436	38.6	9.7	56.0	17.4	L1	FLO
1.385126	37.3	9.7	56.0	18.7	L1	FLO
2.227242	37.5	9.7	56.0	18.5	L1	FLO
3.219938	38.7	9.8	56.0	17.3	L1	FLO
4.733568	40.1	9.8	56.0	15.9	L1	FLO
8.570719	39.4	9.9	60.0	20.6	N	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.556642	35.2	9.7	46.0	10.8	L1	FLO



1.385752	32.9	9.7	46.0	13.1	L1	FLO
2.154972	33.3	9.7	46.0	12.7	L1	FLO
3.079316	33.7	9.7	46.0	12.3	L1	FLO
4.890615	34.7	9.8	46.0	11.3	N	FLO
8.638942	33.3	9.9	50.0	16.7	N	FLO

END