



Appendix A

Modulation Characteristics

According to FCC Part 2.1047 & Part27 Subpart C&L



Channel 425(TM1)

Measurement/Instrument Screen									
Control		Waveform Quality: Numeric Rho						Call Params	
Waveform Quality Setup ▾		Rho 0.9972		Frequency Error -1.7 Hz				Cell 1 Power -100.00 dBm/1.23 MHz	
Swap Window Positions		Time Error: 0.21 us		Carrier Feedthrough: -37.57 dBc				Cell Band AUS	
		Phase Error: 2.63 °		Magnitude Error: 2.91 %				Channel 425	
		Continuous							
Digital Average Power									
Digital Average Power 23.76 dBm									
Expected Mobile Power: 23.00 dBm/1.23 MHz									
Continuous									
		Active Cell Connected				Sys Type: IS-2000			
						Logging: No Conn			
1 of 2				IntRef	Offset	T			1 of 4



Channel 425(TM3)

Measurement/Instrument Screen									
Control	Waveform Quality: Numeric Rho							Call Params	
Waveform Quality Setup ▾	Rho 0.9976		Frequency Error -1.9 Hz					Cell 1 Power -100.00	
Change View								dBm/1.23 MHz	
	Time Error: 0.22 us							Cell Band AUS	
	Carrier Feedthrough: -38.88 dBc							Channel 425	
	Phase Error: 2.43 °							Protocol Rev 6 (IS-2000-0)	
	Magnitude Error: 2.41 %							Radio Config (Fud3, Rvs3)	
	EVM: 4.88 %		Continuous					S055 (Loopback)	
Swap Window Positions	Digital Average Power							FCH Service Option Setup ▾	
	Digital Average Power 23.44 dBm								
	Expected Mobile Power: 20.78 dBm/1.23 MHz							Continuous	
	Active Cell Connected			Sys Type: IS-2000					
				Logging: No Conn					
1 of 2			IntRef	Offset	T			1 of 4	



Channel 425 (Subtype 0) (HPSK)

Measurement/Instrument Screen									
Control	Waveform Quality: Numeric Rho							Call Params	
Waveform Quality Setup ▾	Rho 0.9983		Frequency Error -0.7 Hz					Cell Power -100.00 dBm/1.23 MHz	
Numeric Rho	Time Error: 0.24 us		Carrier Feedthrough: -37.77 dBc					Cell Band AUS	
Code Domain Power	Phase Error: 1.97 °		Magnitude Error: 2.34 %					Channel 425	
Code Domain Power + Noise	EVM: 4.07 %		Continuous					Application Config ▾	
Swap Window Positions	Digital Average Power								
1 of 2	Digital Average Power 23.60 dBm								
Expected Access Terminal Power: 23.00 dBm/1.23 MHz									
Continuous									
			Active Cell Connected			Sys Type: IS-856			
						Logging: No Conn			
			IntRef	Offset			PLSub0	RTAP	1 of 3



Channel 425 (Subtype 2)

The R-Data packet size determines the modulation format:

R-Data Pkt Size (256 bits) (BPSK)

Measurement/Instrument Screen										
Control		Waveform Quality: Numeric Rho						Call Params		
Waveform Quality Setup ▾		Rho 0.9979		Frequency Error 1.2 Hz				Cell Power -100.00		
Numeric Rho		Time Error: 0.36 us		Carrier Feedthrough: -38.12 dBc				dBm/1.23 MHz		
Code Domain Power		Phase Error: 7.42 °		Magnitude Error: 2.41 %				Cell Band AUS		
Code Domain Power + Noise		EVM: 4.64 %		Payload Size: 256 bits				Channel 425		
Swap Window Positions		Continuous								
Digital Average Power										
Digital Average Power 23.18 dBm										
Expected AT Power (Pre-Trans): 23.00 dBm/1.23 MHz										
Expected AT Power (Post-Trans): 23.00 dBm/1.23 MHz										
Continuous										
1 of 2		Active Cell Connected			Sys Type: IS-856		Application Config ▾			
		IntRef Offset			Logging: No Conn		F-Traffic Format 4 (512,2,128)			
		PLSub2 RETAP			R-Data Pkt Size 256			bits		
					1 of 3					



R-Data Pkt Size (12288 bits) (8PSK)

Measurement/Instrument Screen										
Control		Waveform Quality: Numeric Rho						Call Parm		
Waveform Quality Setup		Rho		Frequency Error				Cell Power		
		0.9977		3.7 Hz				-100.00		
		Time Error: 0.28 us						dBm/1.23 MHz		
Numeric Rho		Carrier Feedthrough: -38.71 dBc						Cell Band		
		Phase Error: 5.82 °						AUS		
		Magnitude Error: 2.99 %								
Code Domain Power		EVM: 4.85 %						Channel		
		Payload Size: 12288 bits		Continuous				425		
Digital Average Power										
Code Domain Power + Noise		Digital Average Power								
		23.50 dBm								
Swap Window Positions		Expected AT Power (Pre-Trans): 23.00 dBm/1.23 MHz								
		Expected AT Power (Post-Trans): 23.00 dBm/1.23 MHz				Continuous				
		Active Cell Connected				Sys Type: IS-856				
						Logging: No Conn				
1 of 2				IntRef		Offset		PLSub2		RETAP
										1 of 3



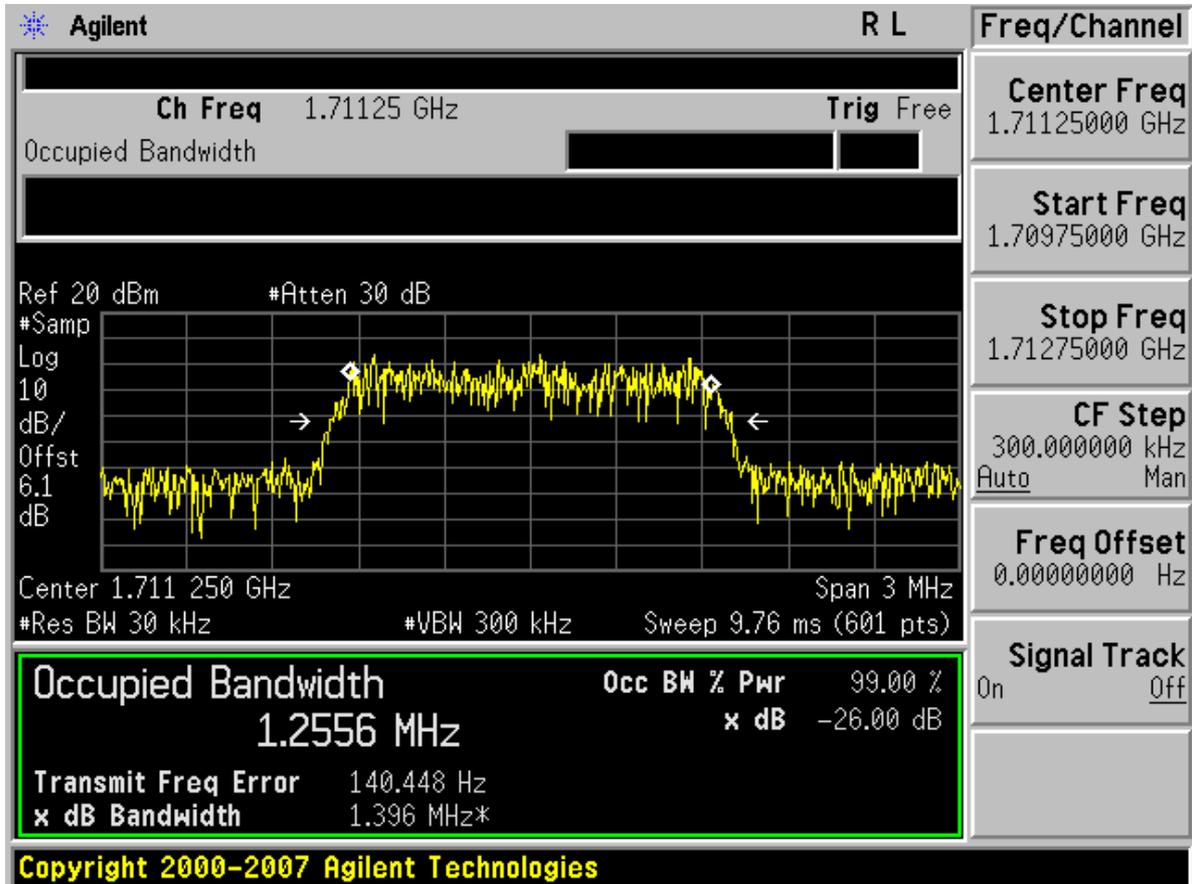
Appendix B

Occupied Bandwidth

According to FCC Part 2.1049 & Part 27 Subpart C&L

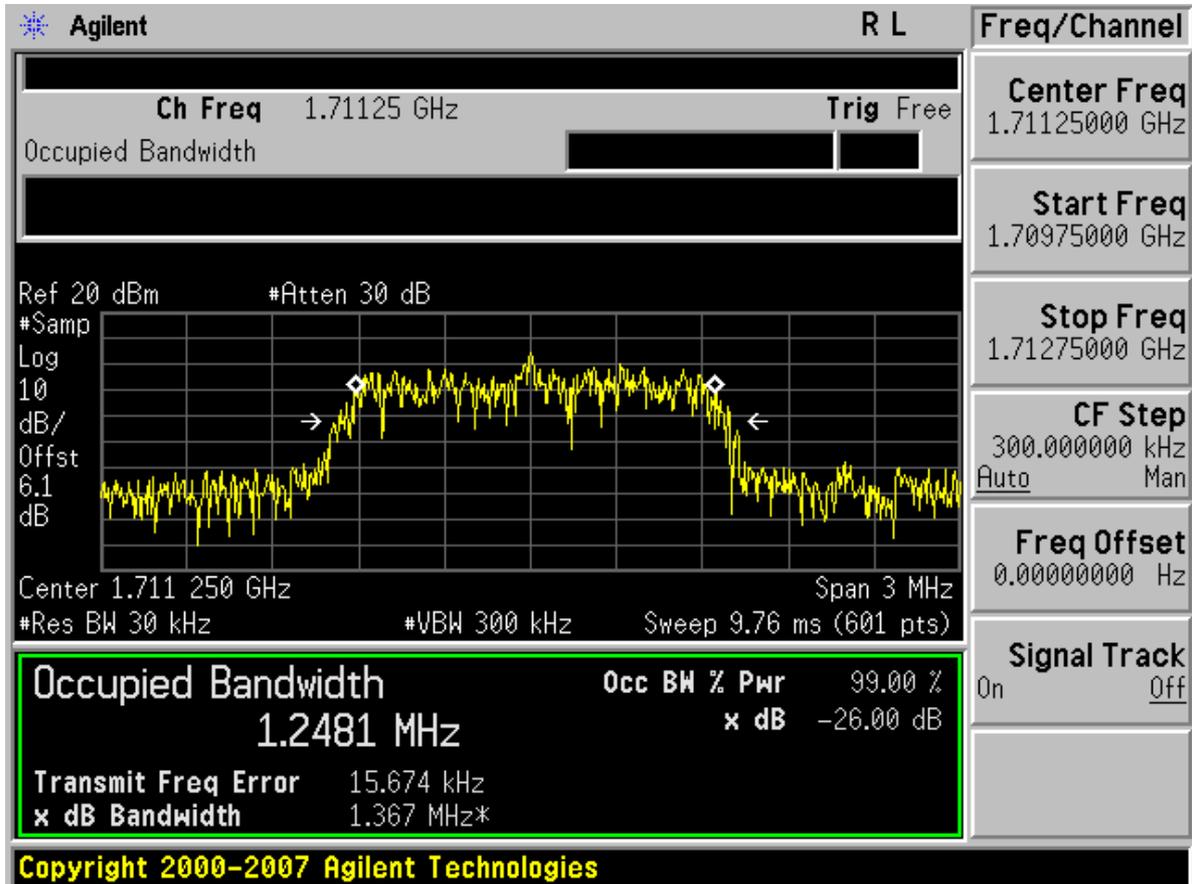


Channel 25 (TM1)



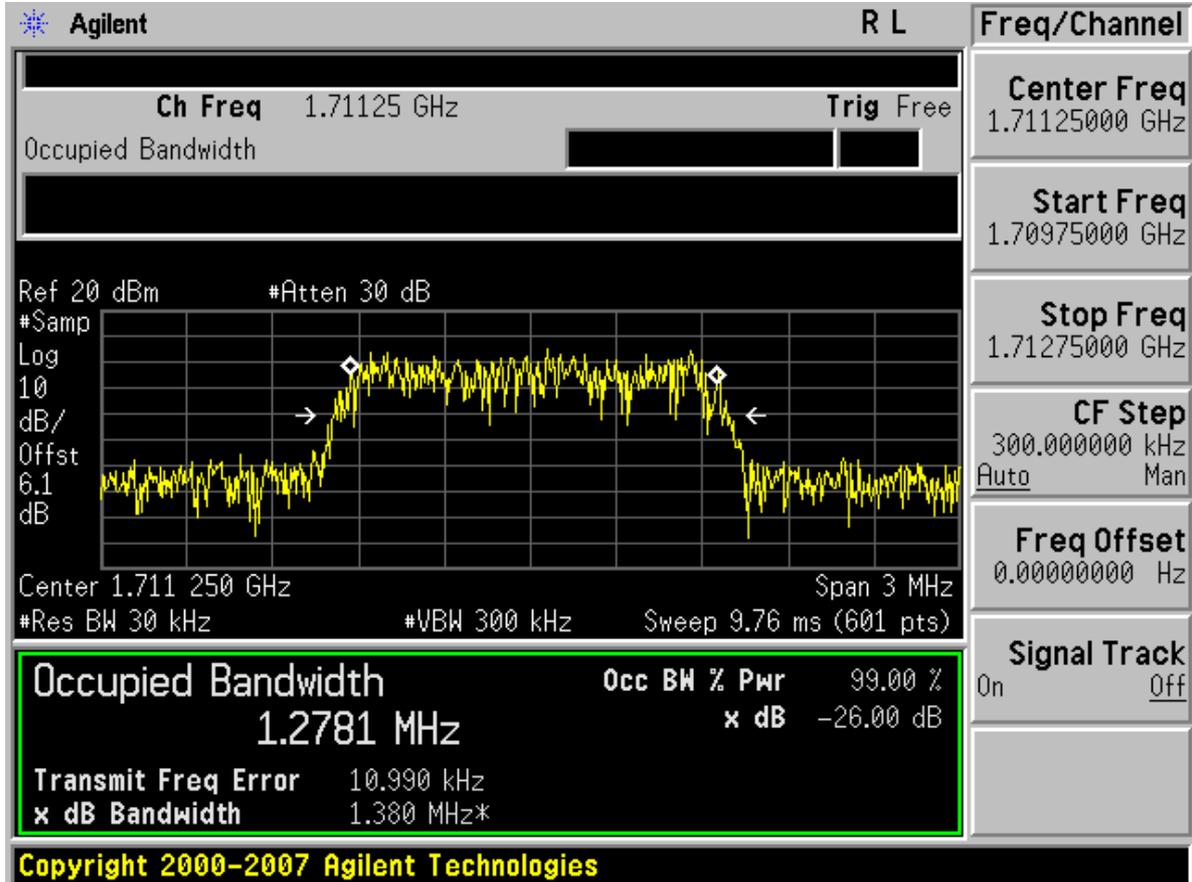


Channel 25 (TM3)



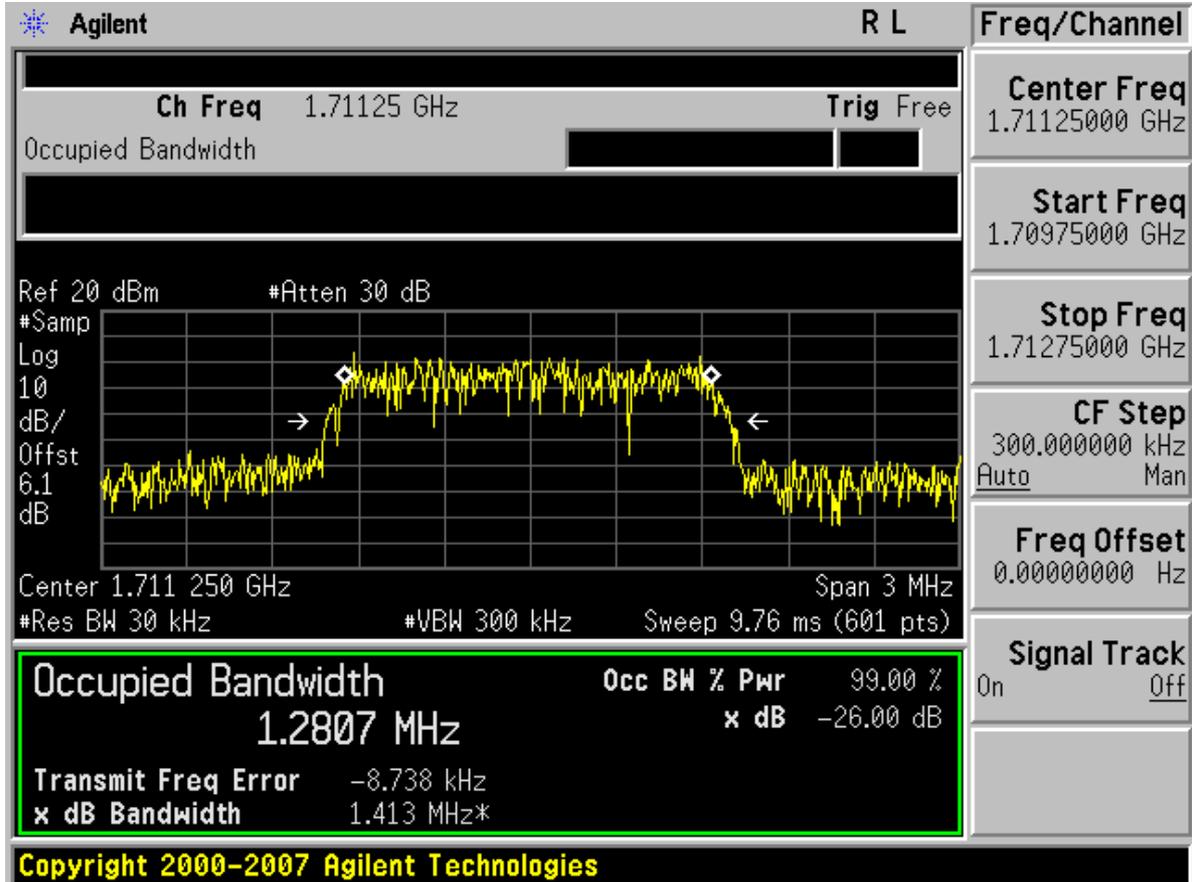


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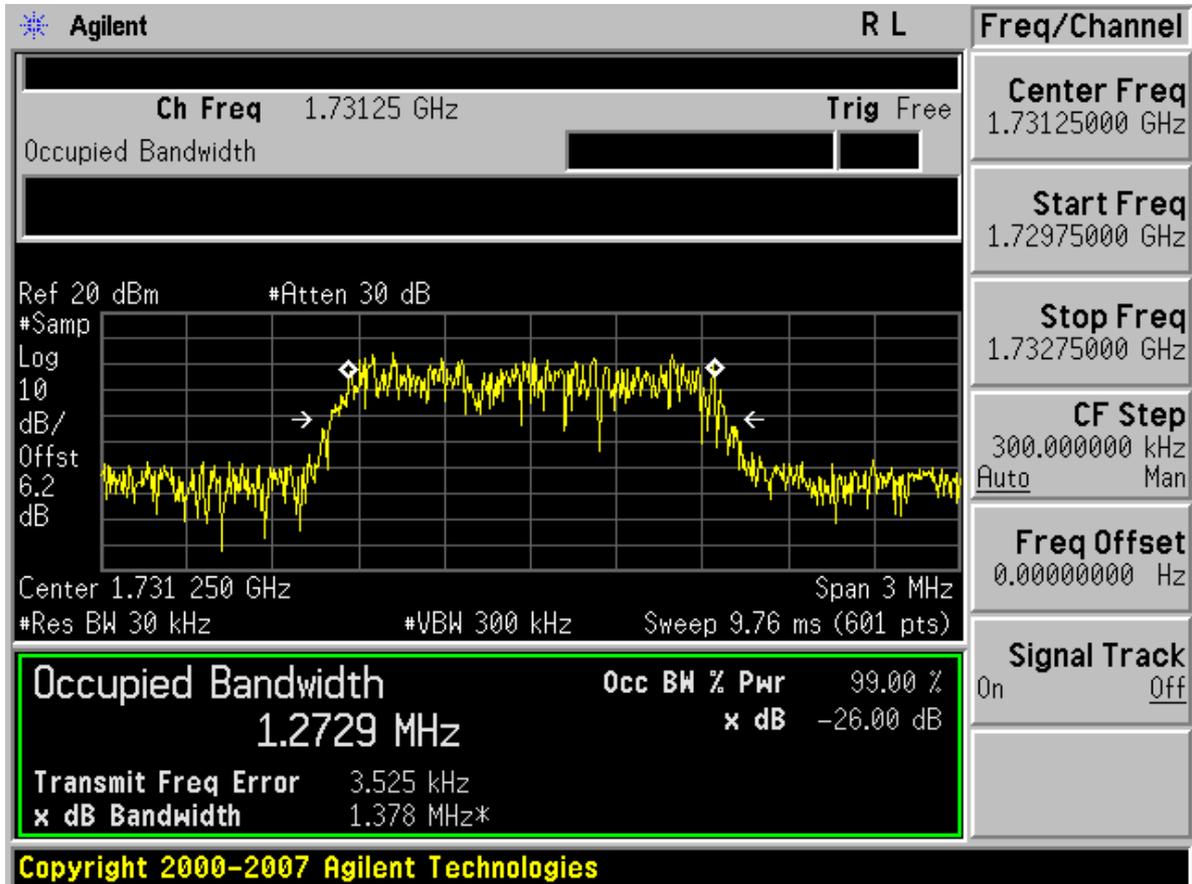


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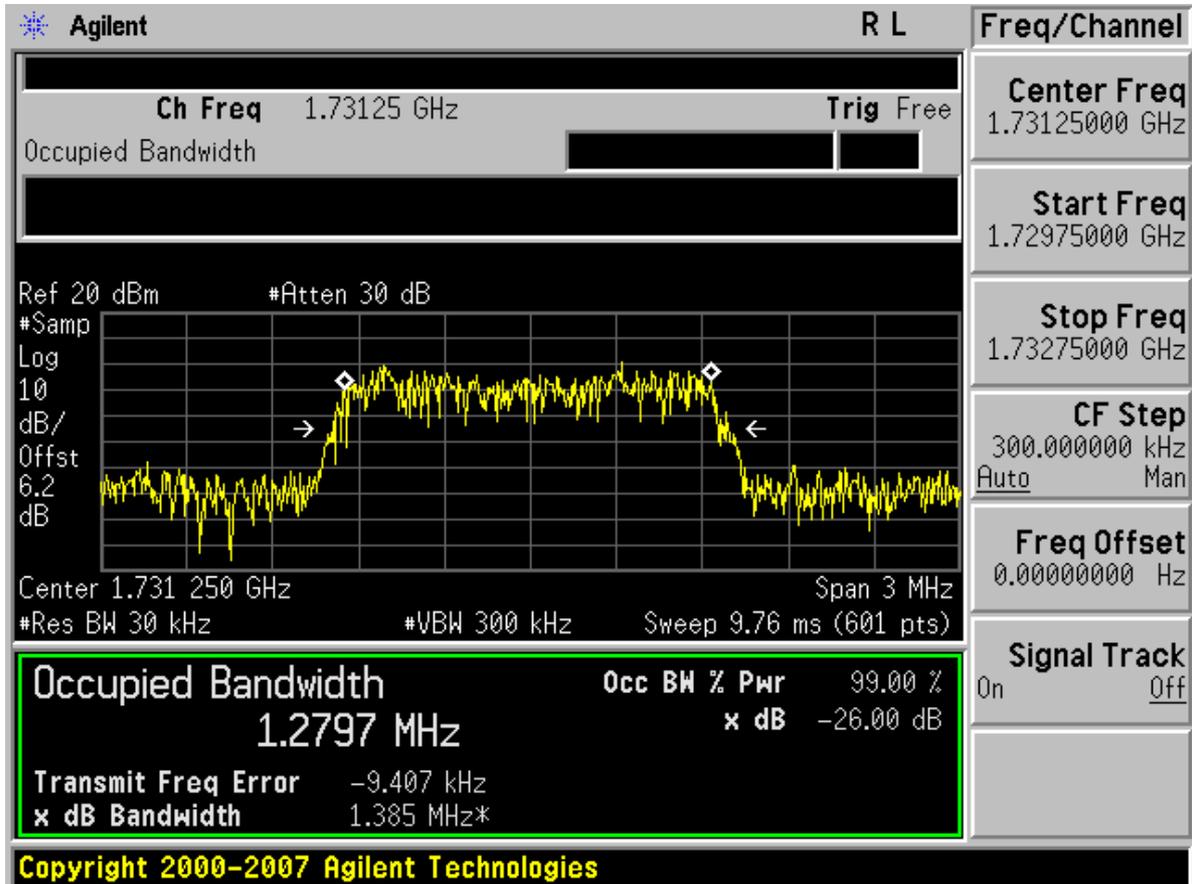


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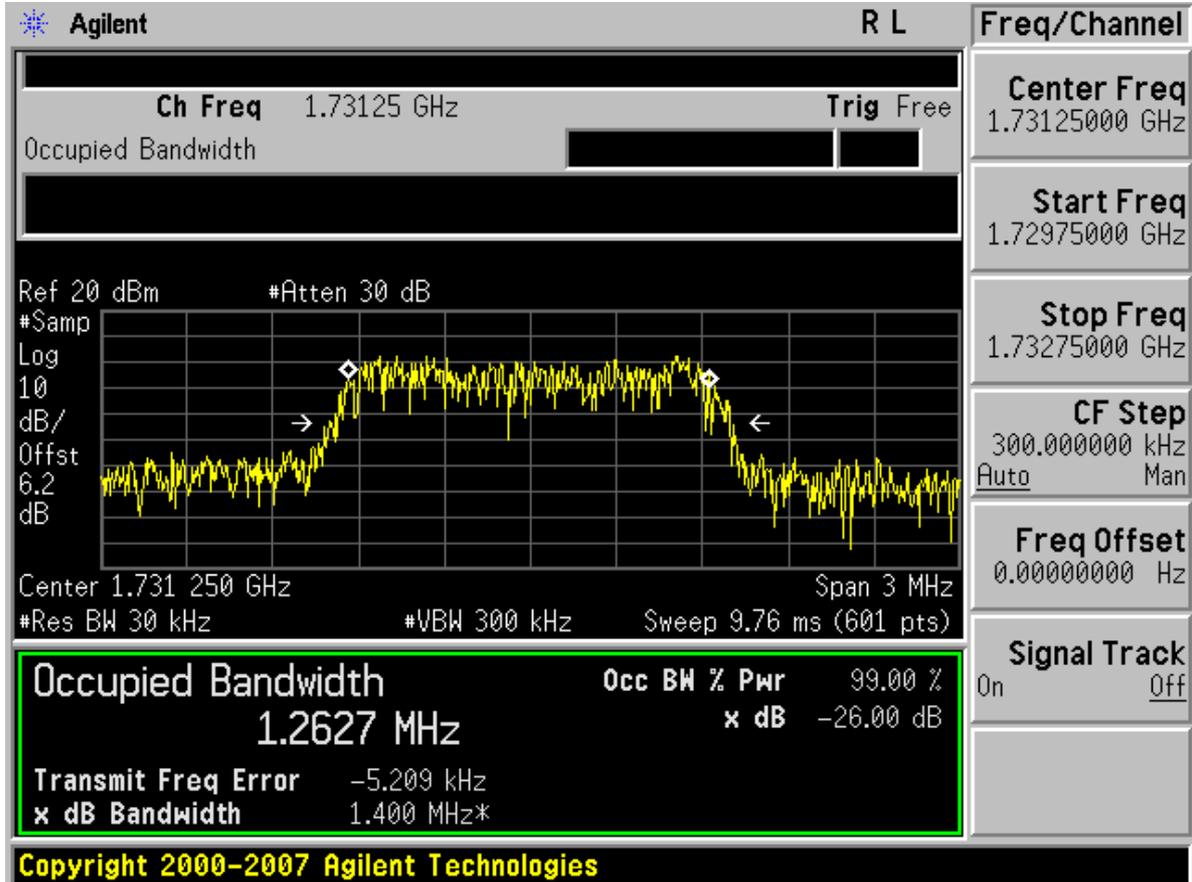


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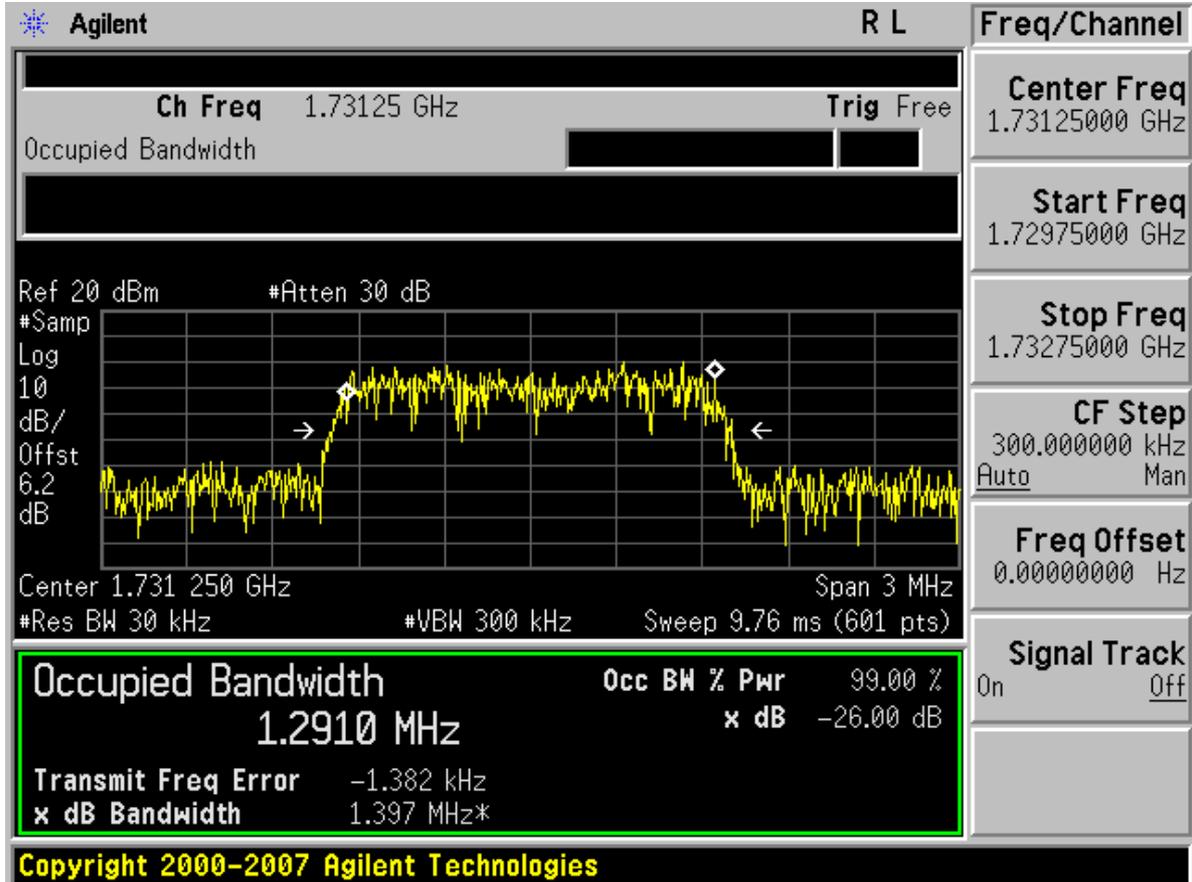


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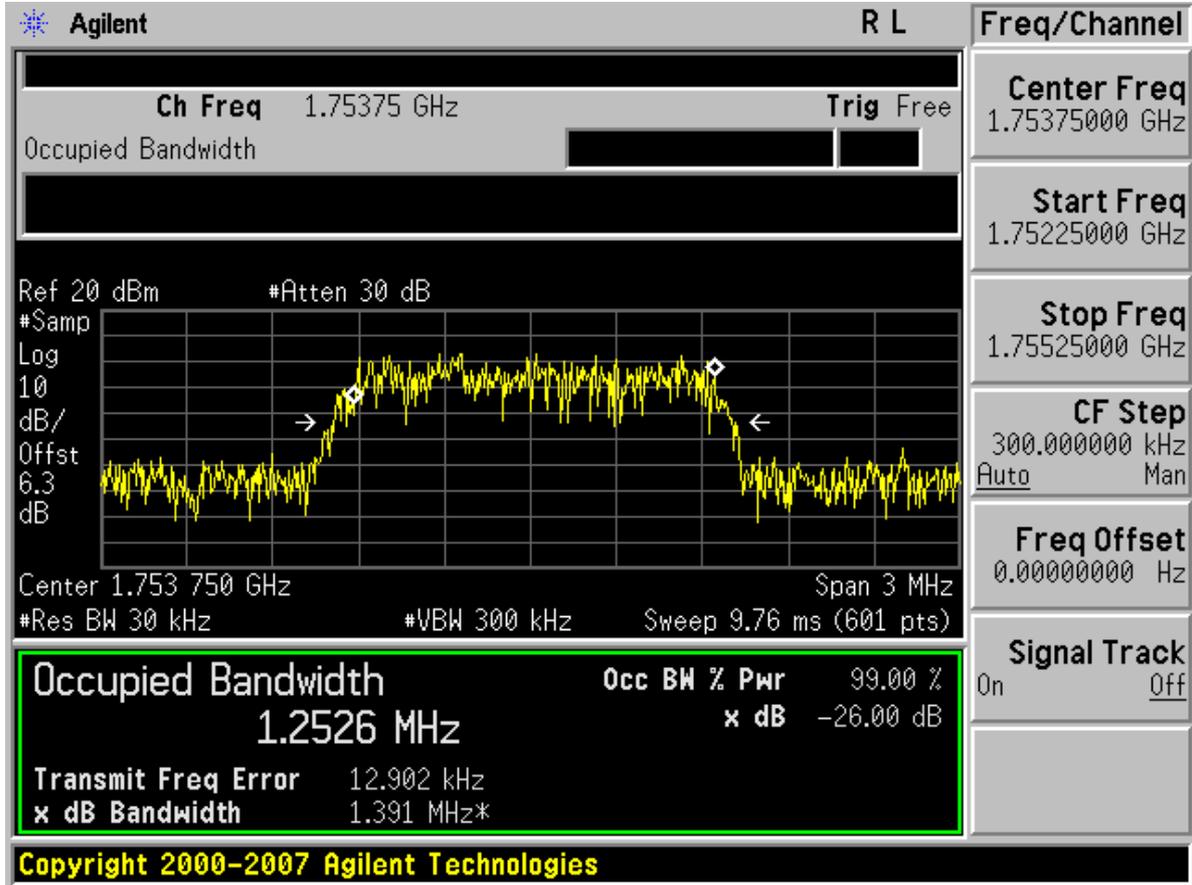


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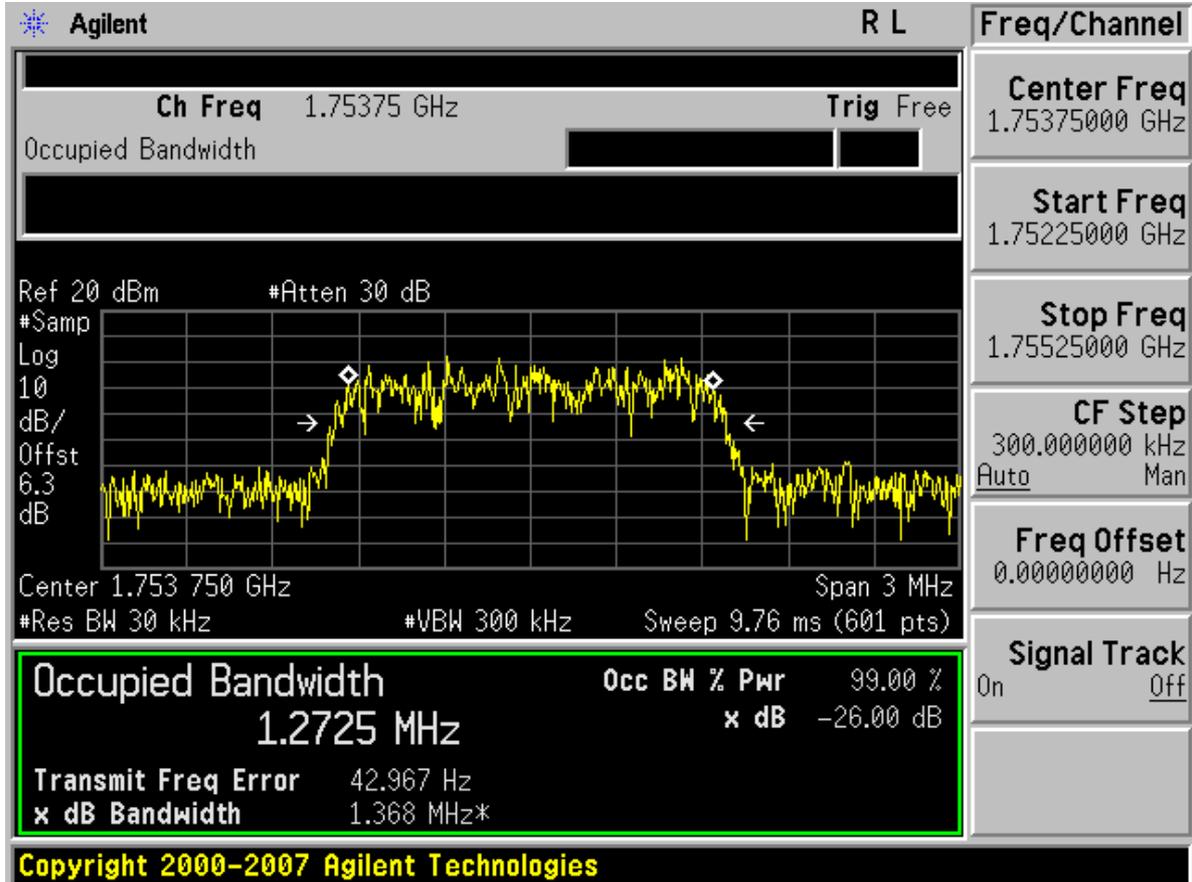


Channel 875 (TM1)



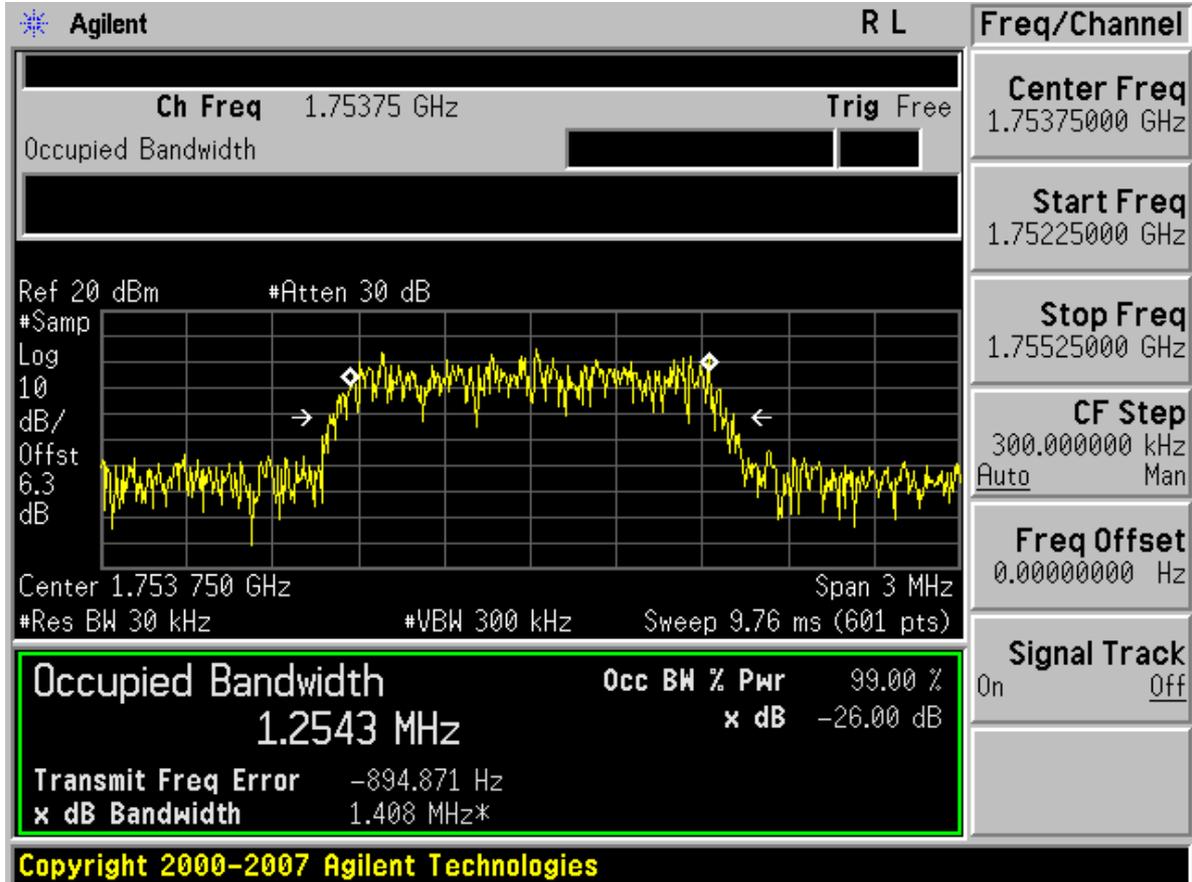


Channel 875 (TM3)



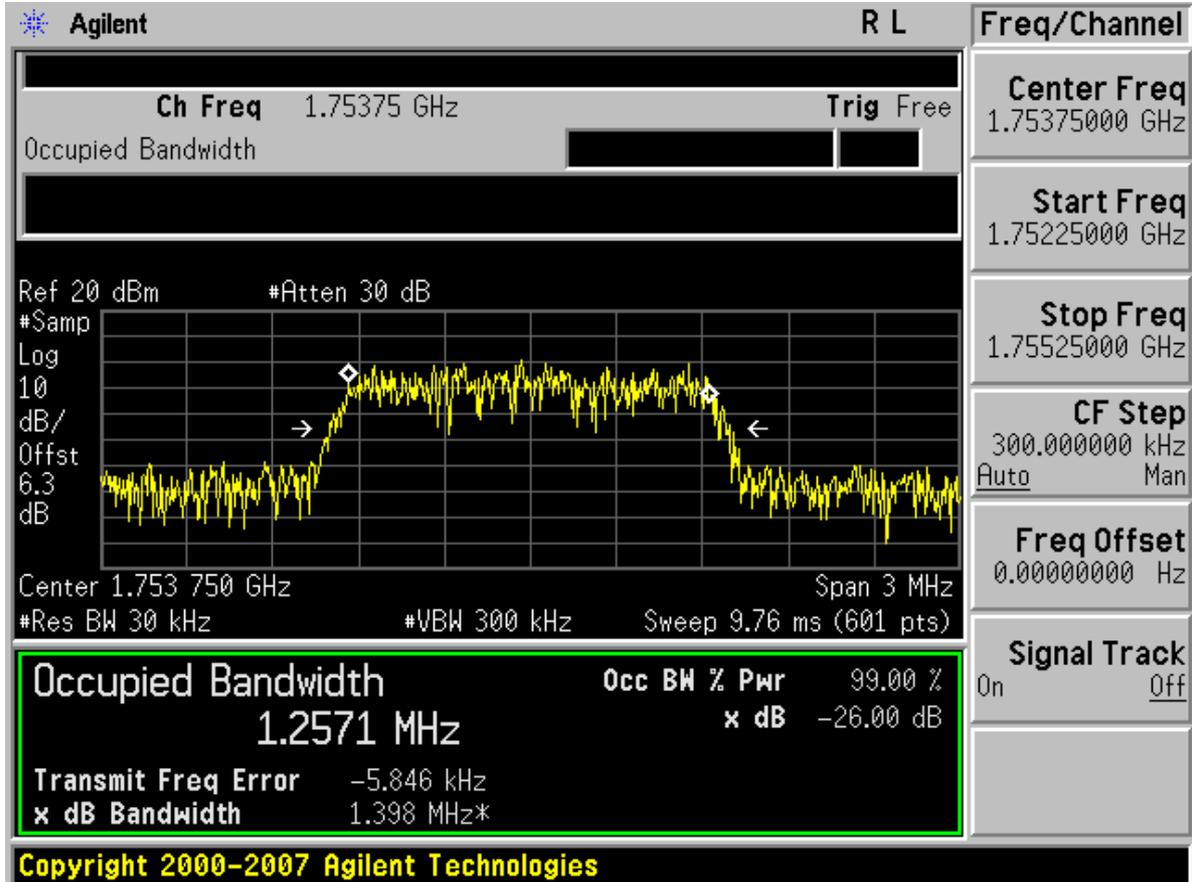


Channel 875 (EVDO subtype 0)





Channel 875 (EVDO subtype 2)





Appendix C

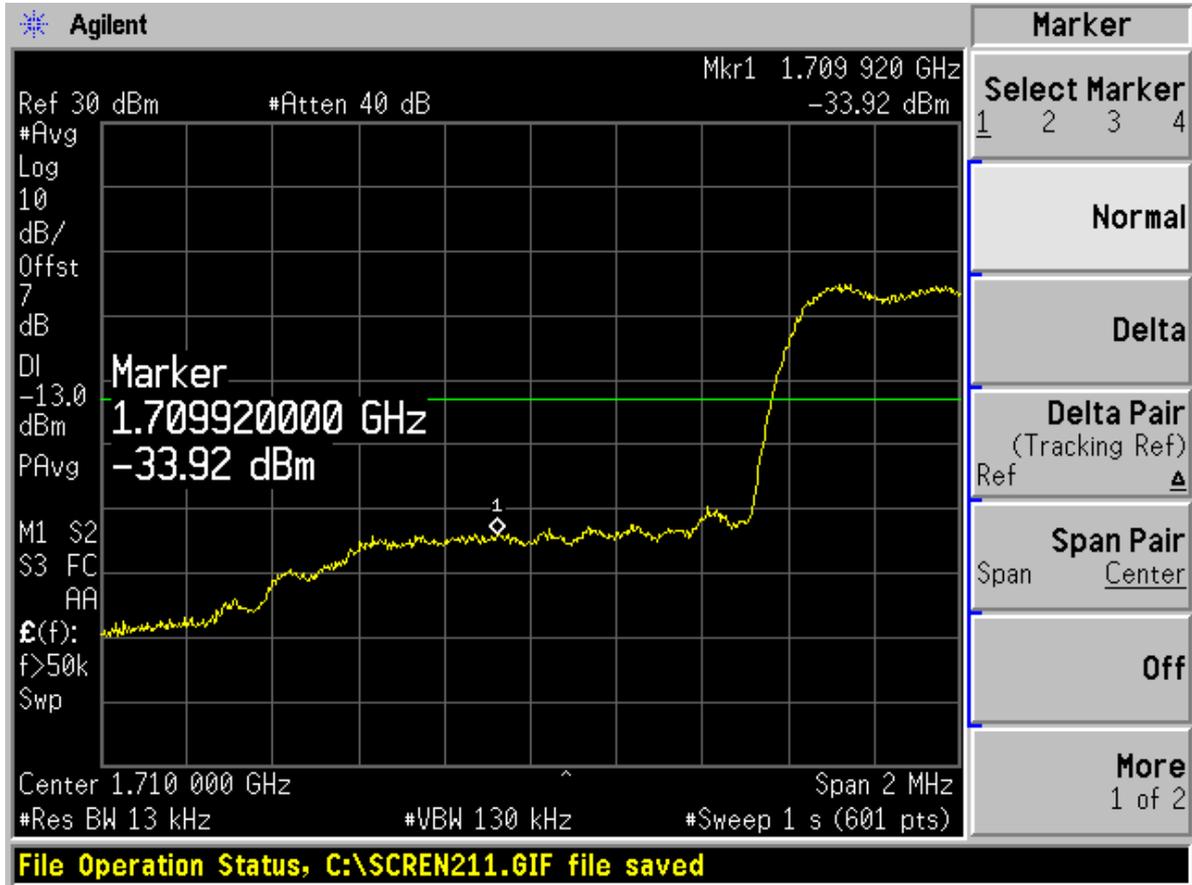
Band Edges Compliance According to FCC Part 2.1051 & 27.53(g)



TM1

Left Edge

Channel 25



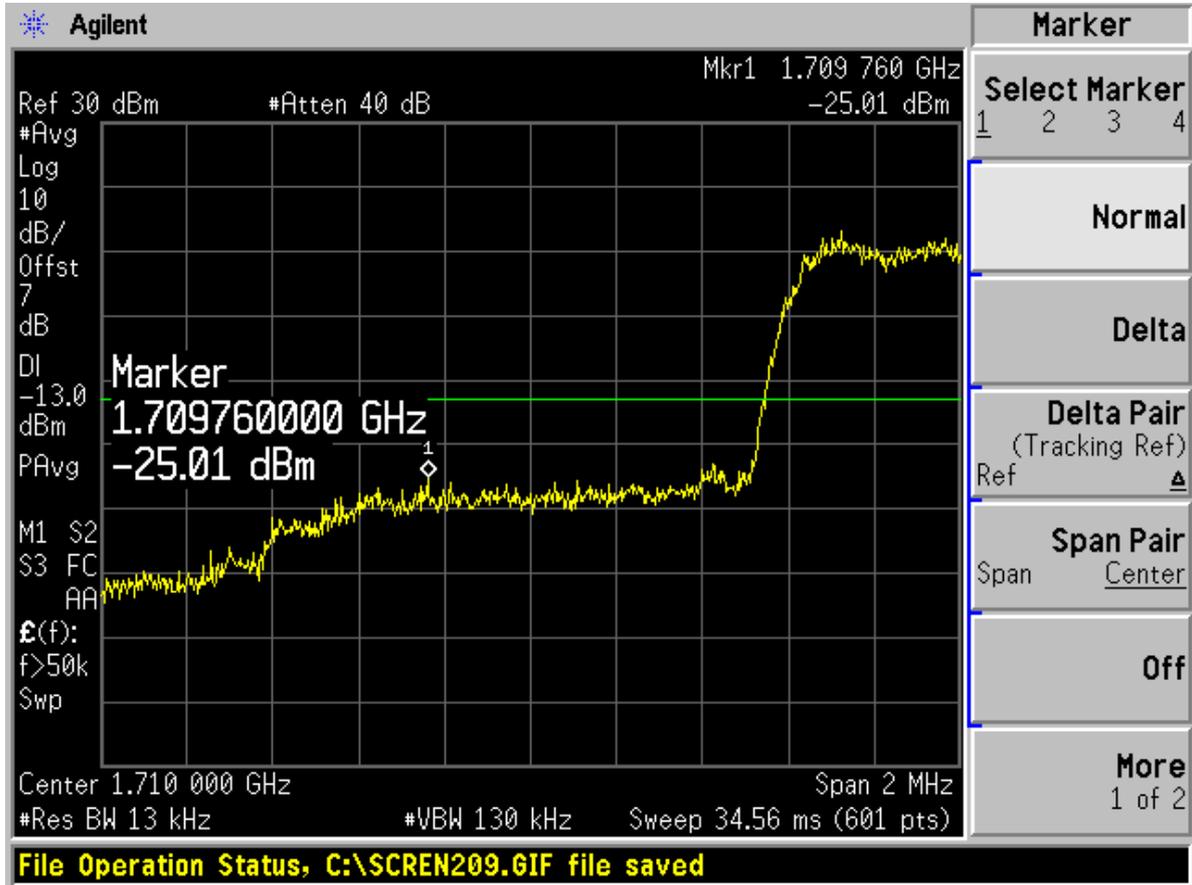


Right Edge Channel 875



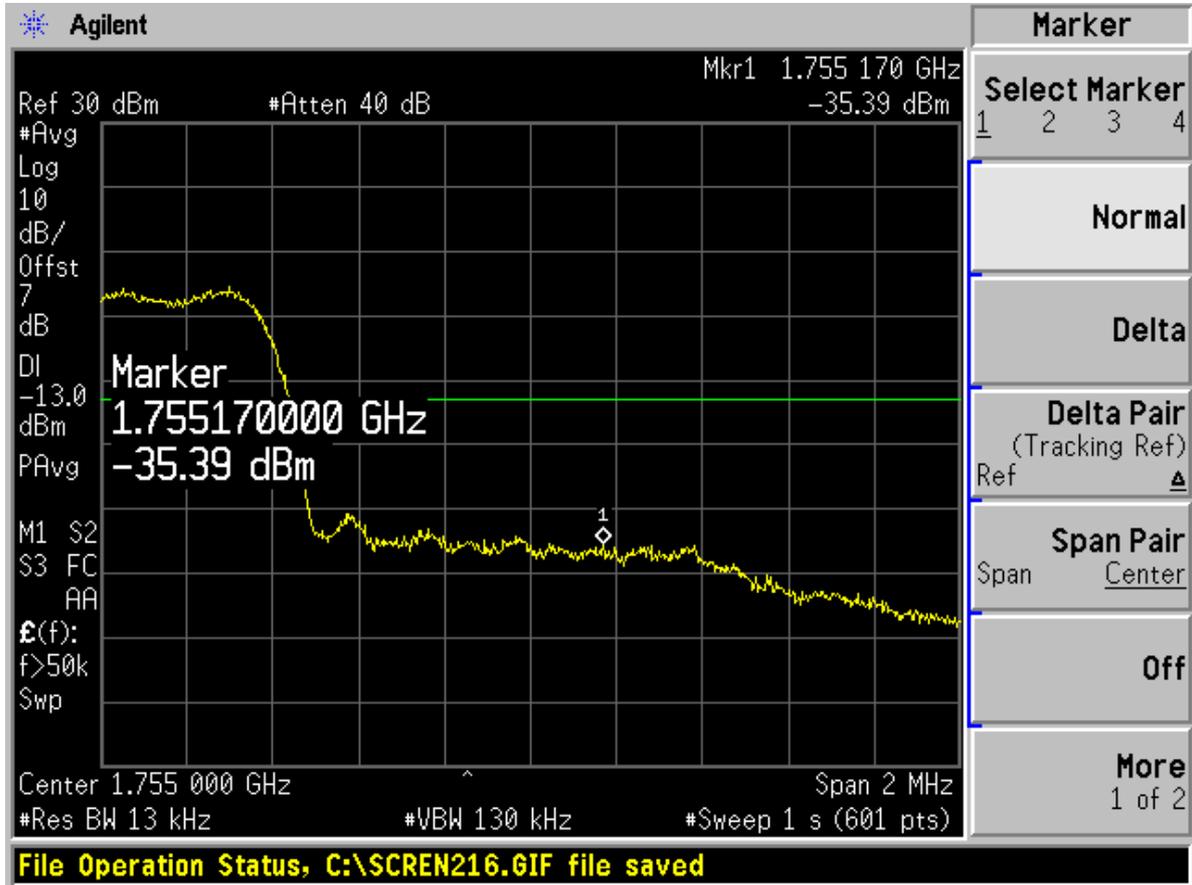


TM3 Left Edge Channel 25





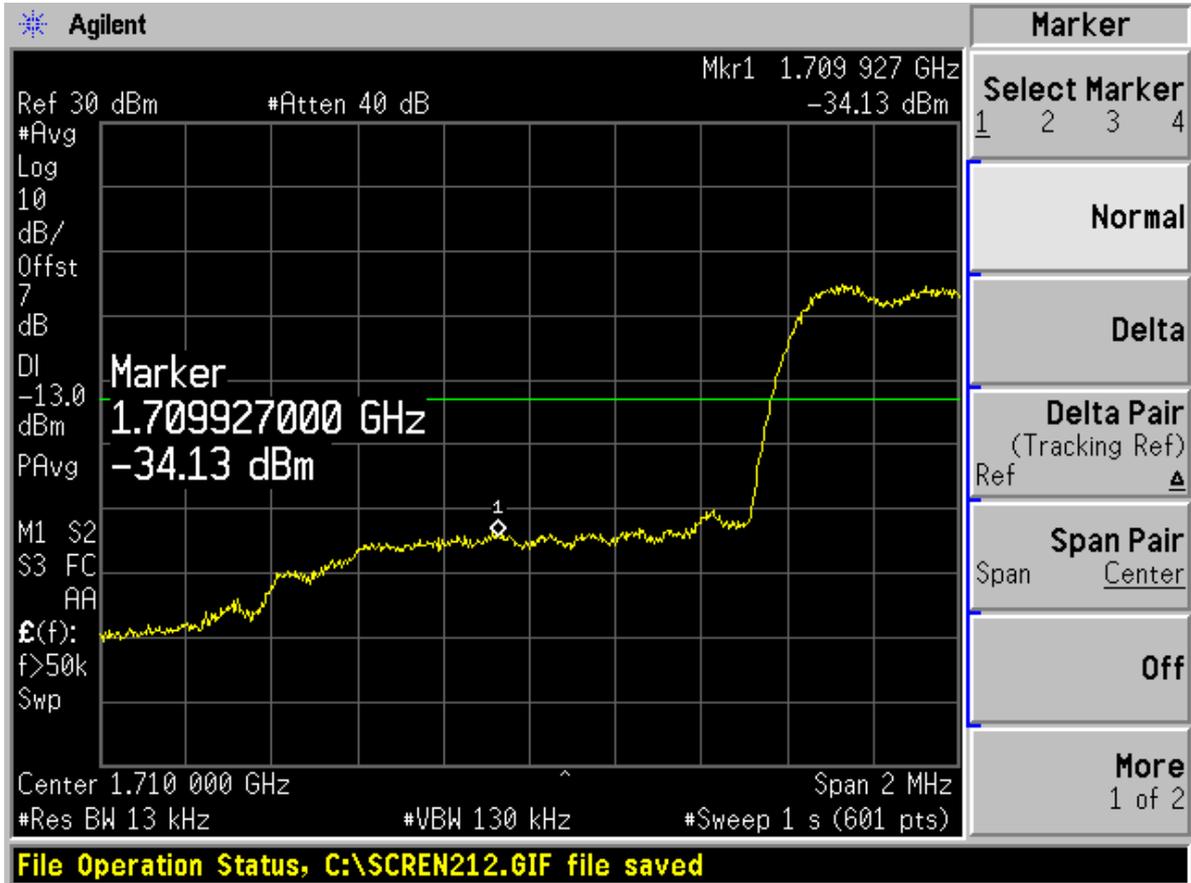
Right Edge Channel 875





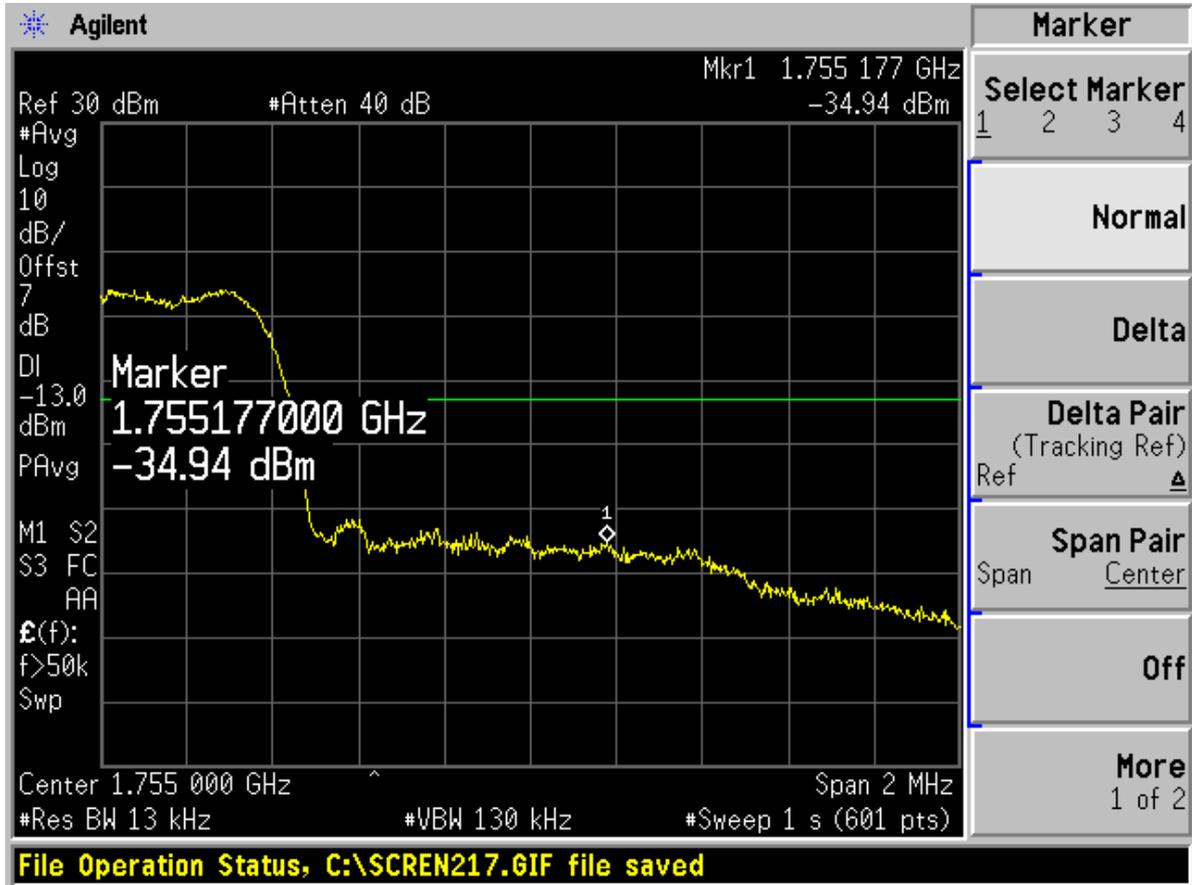
EVDO Subtype 0

Left Edge Channel 25





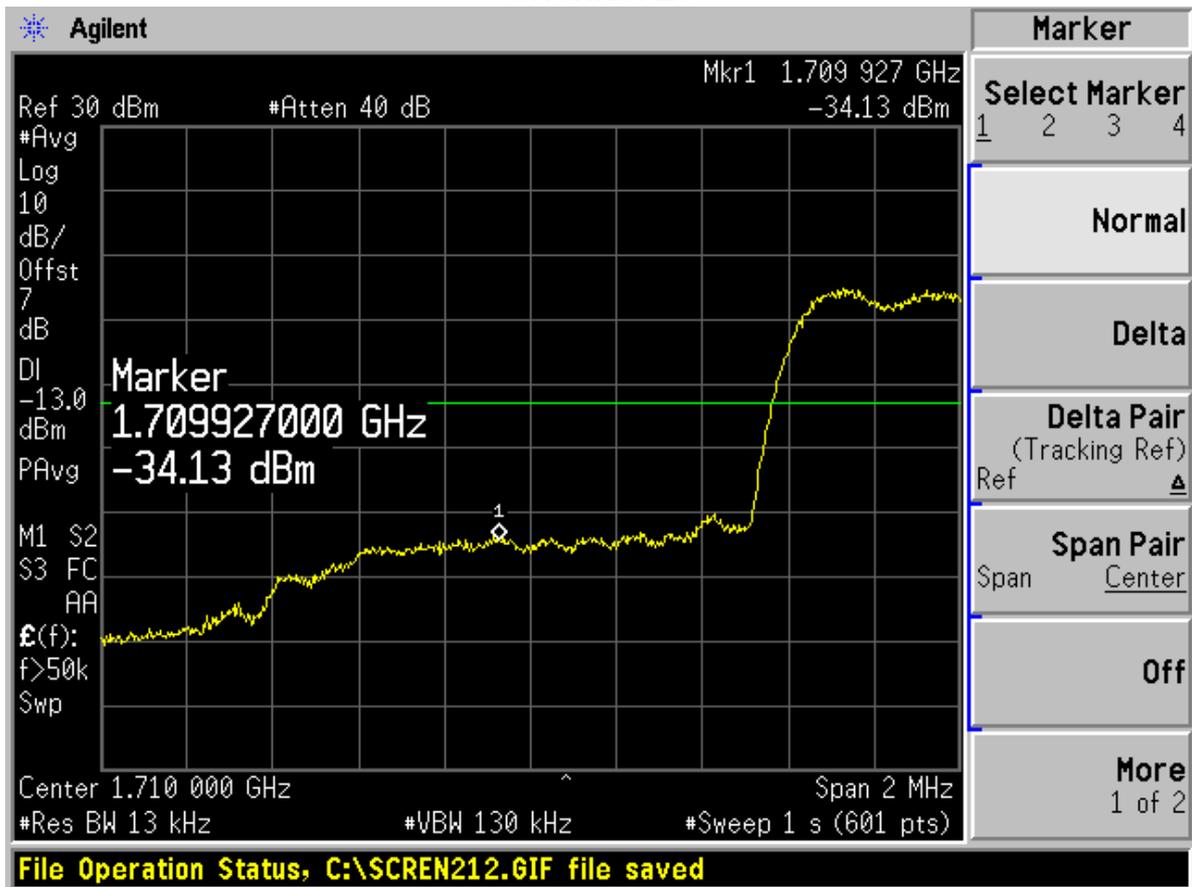
Right Edge Channel 875





EVDO Subtype 2

Modulation: HPSK
Left Edge
Channel 25





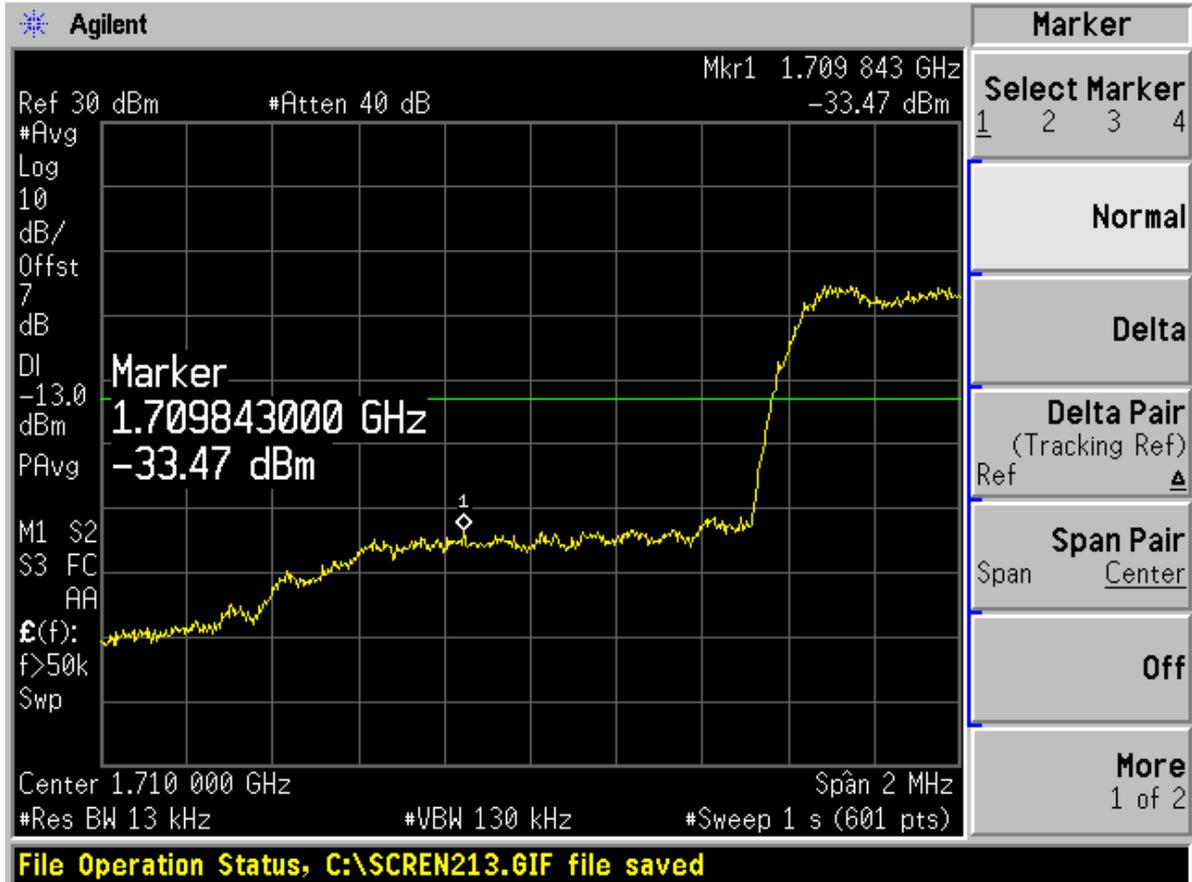
Right Edge Channel 875





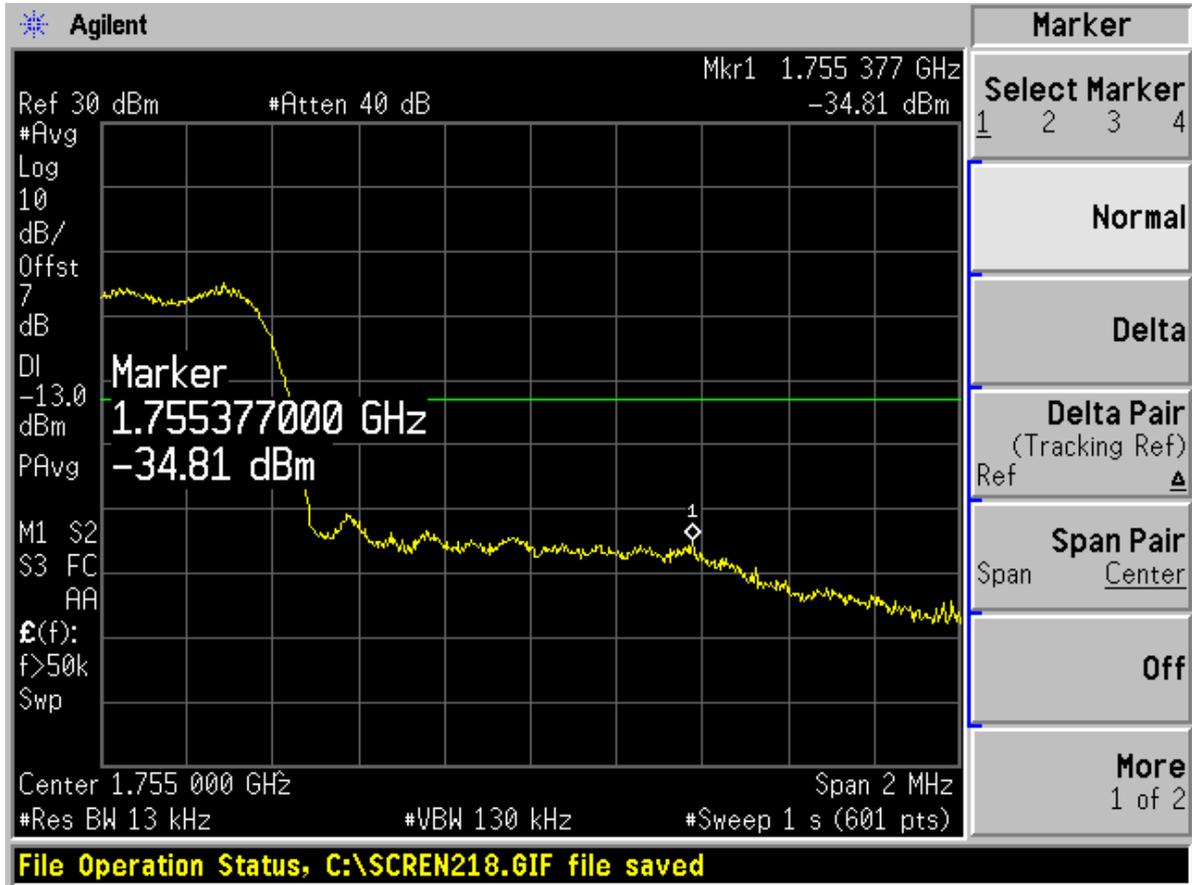
Modulation: QPSK

**Left Edge
 Channel 25**





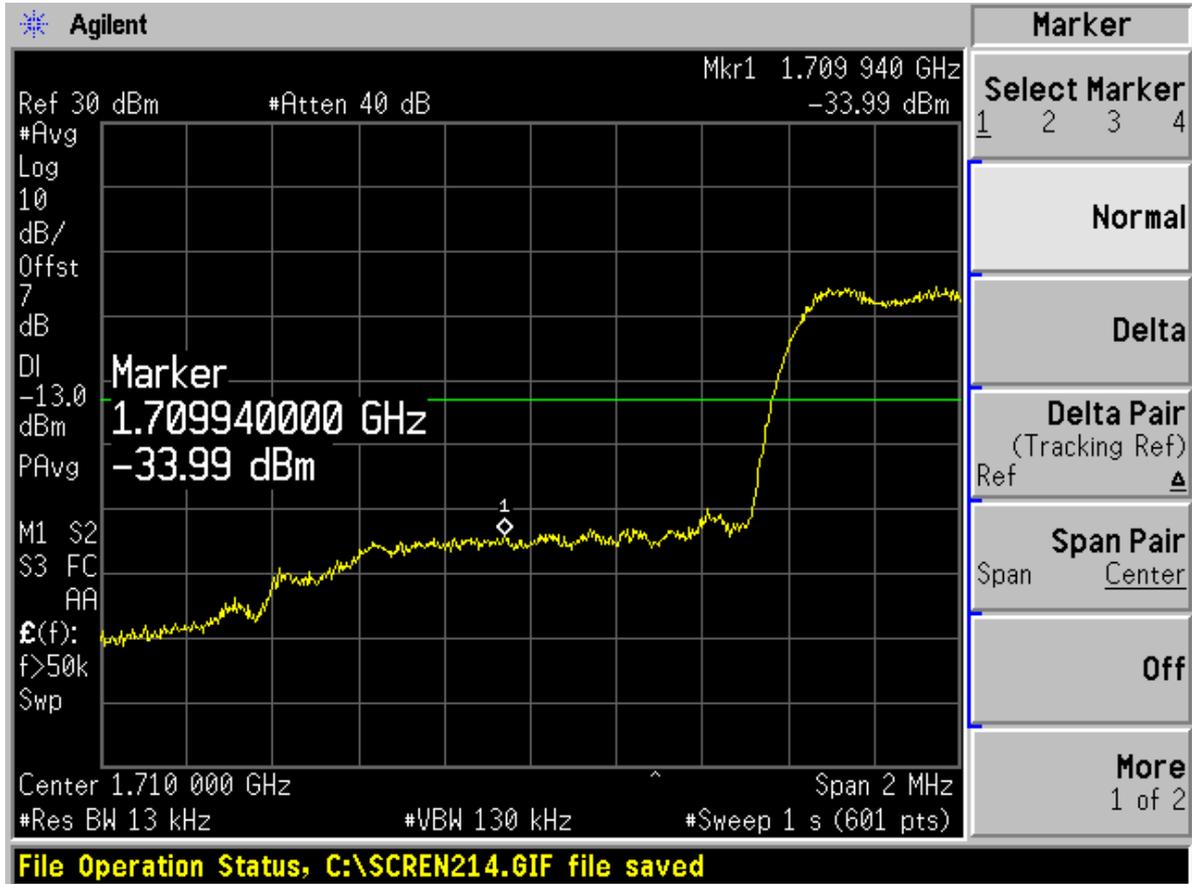
Right Edge Channel 875





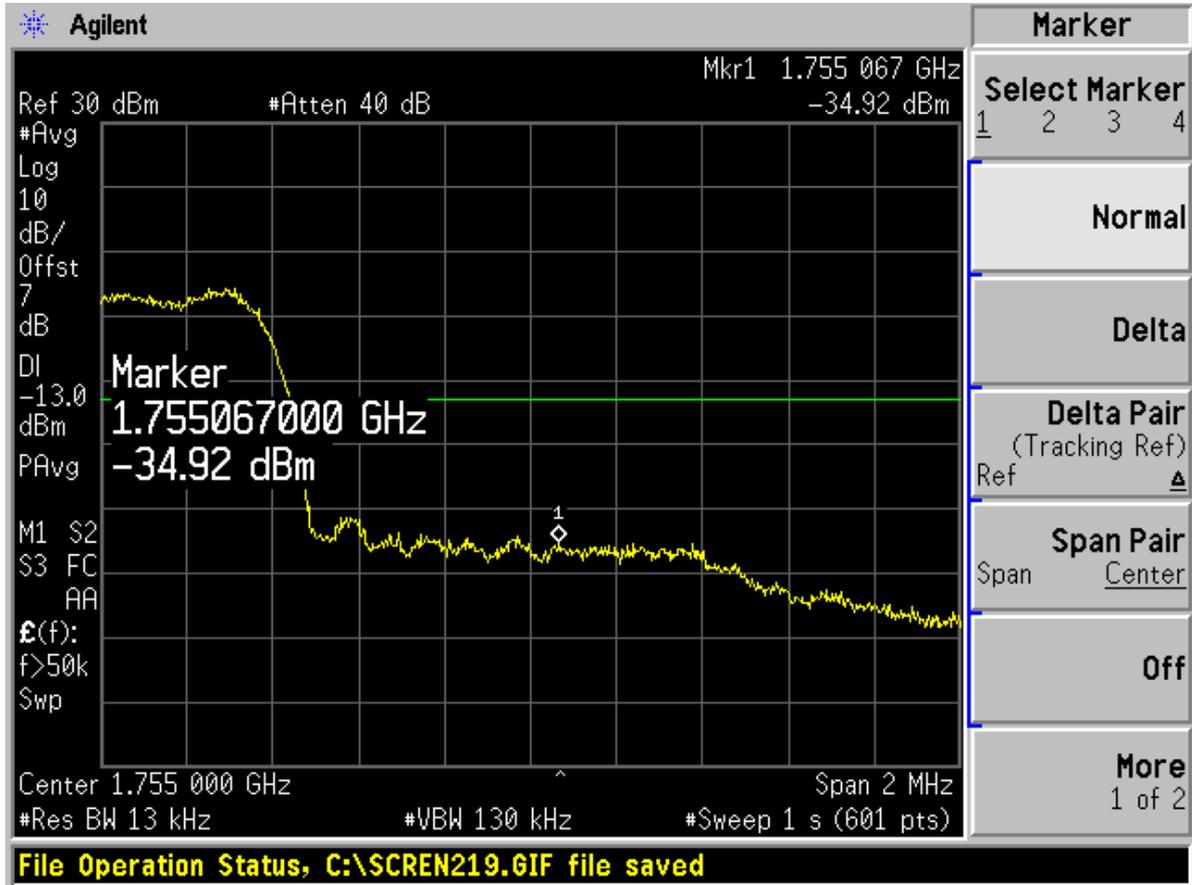
Modulation: 8PSK

Left Edge
Channel 25





Right Edge Channel 875





Appendix D

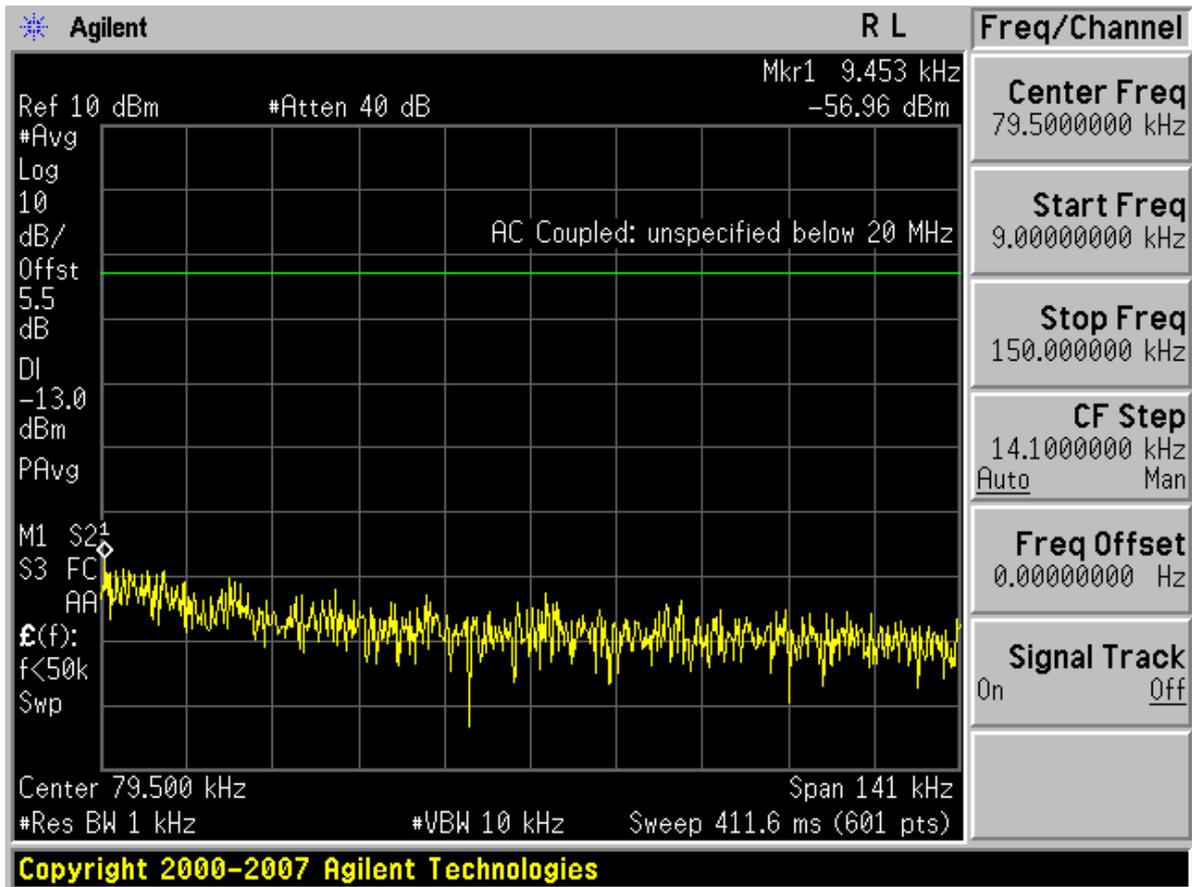
Spurious Emission at Antenna Terminal

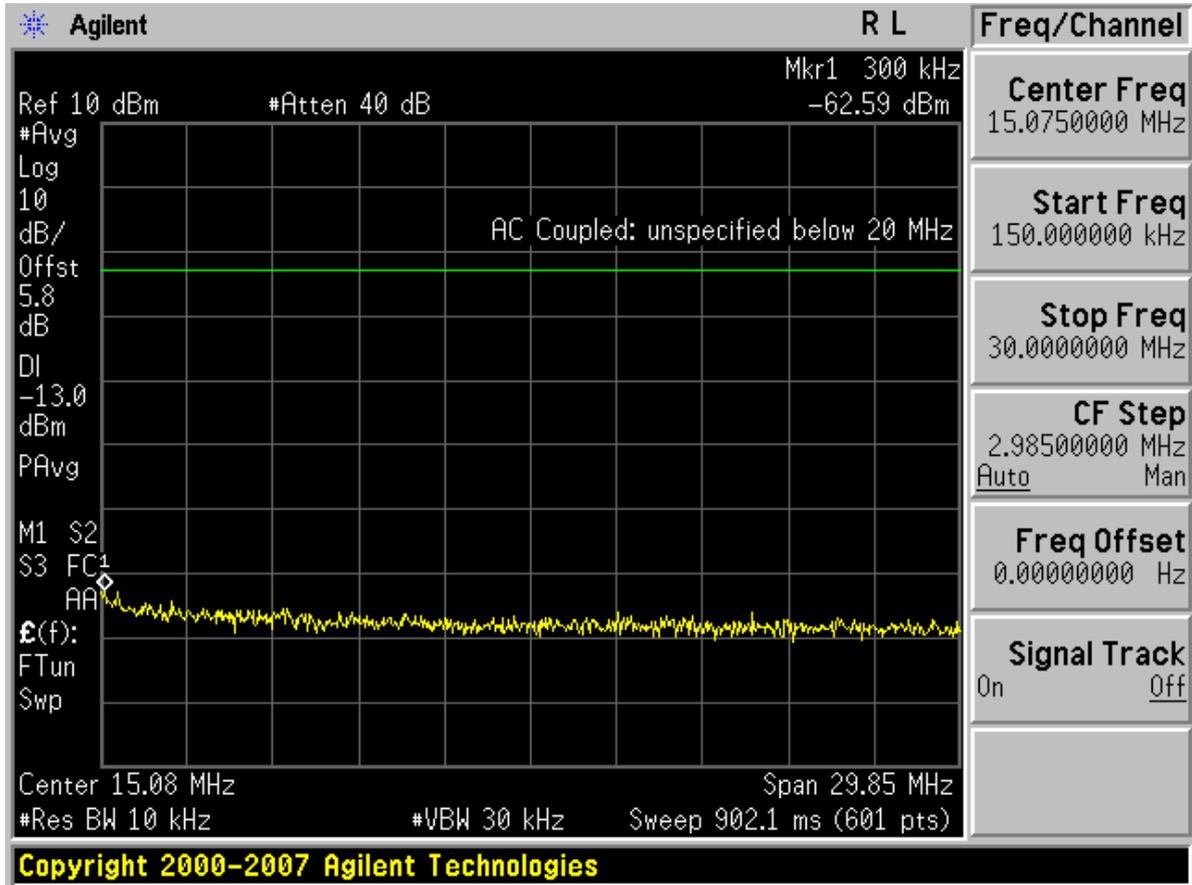
According to FCC Part 2.1051 & 27.53(g)

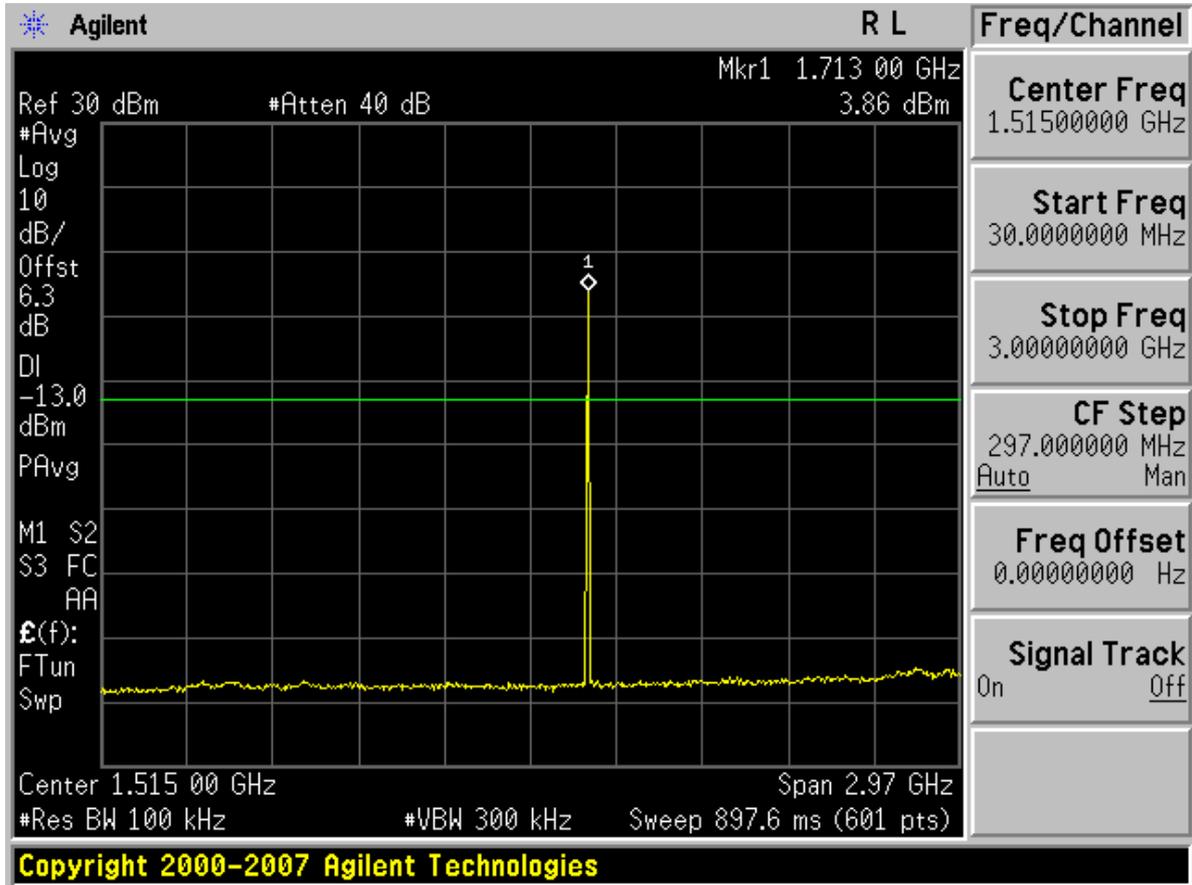


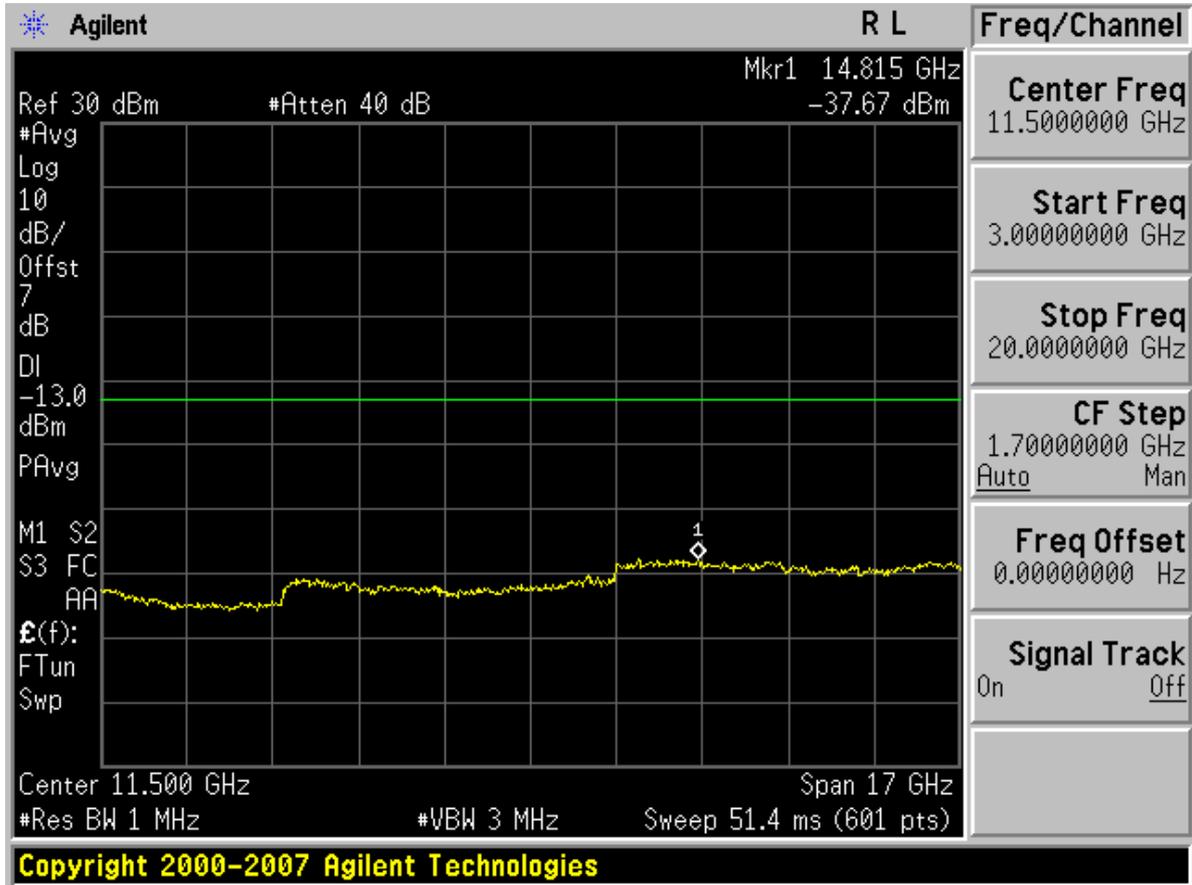
1.1 TM1

Channel 25



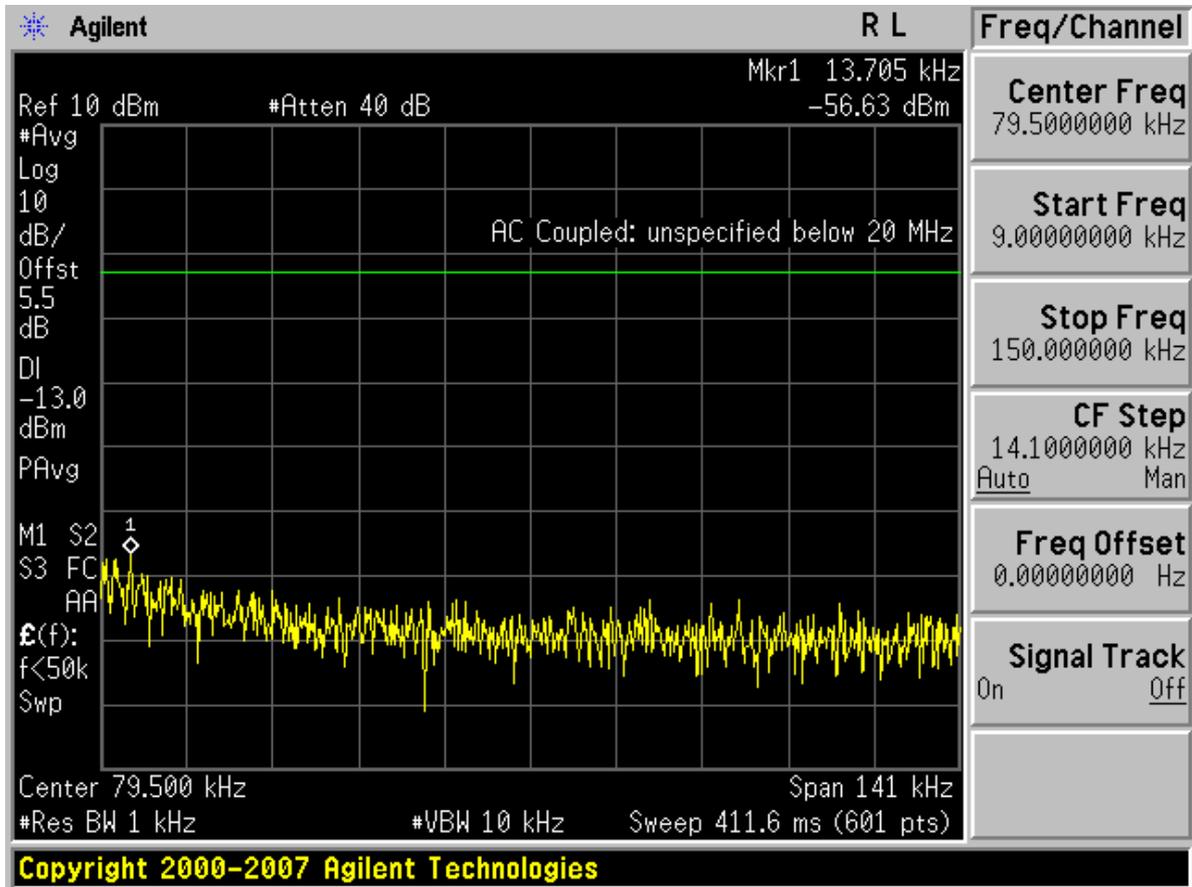


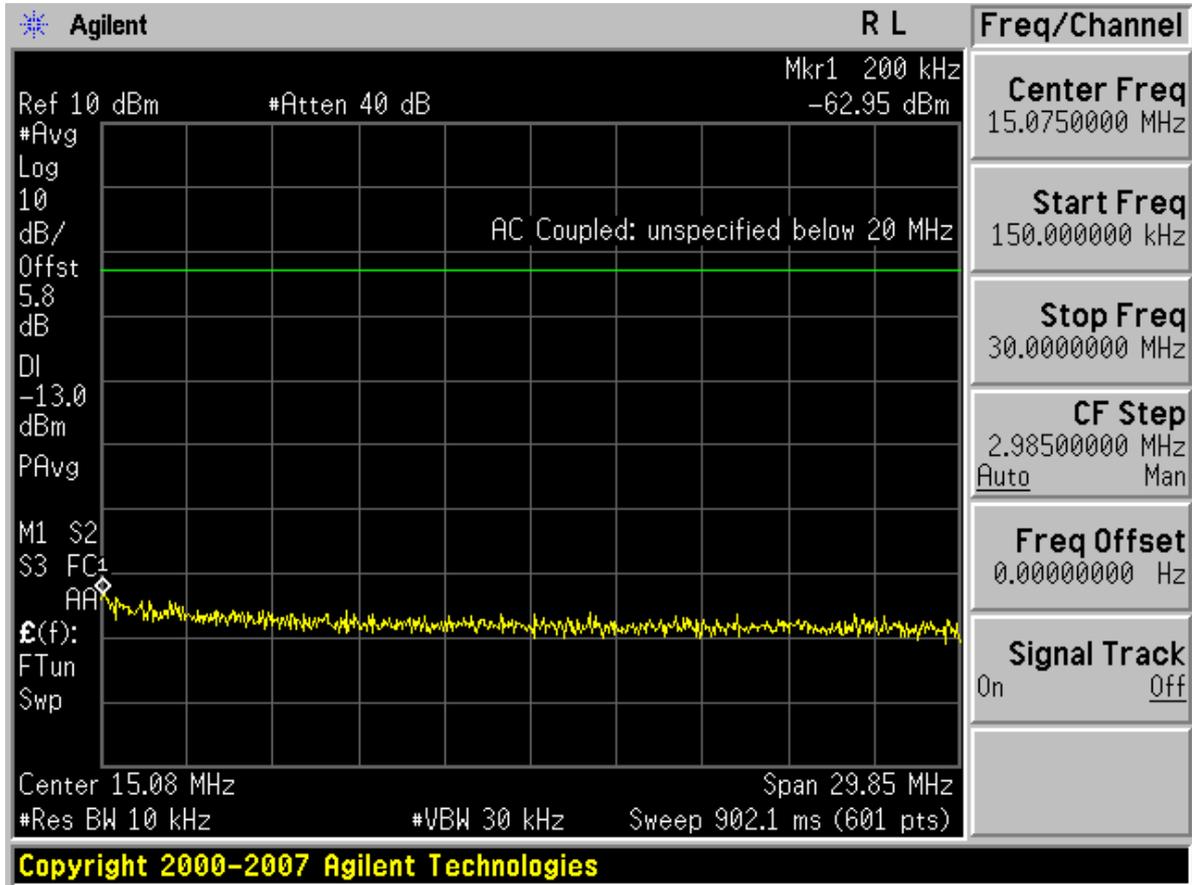


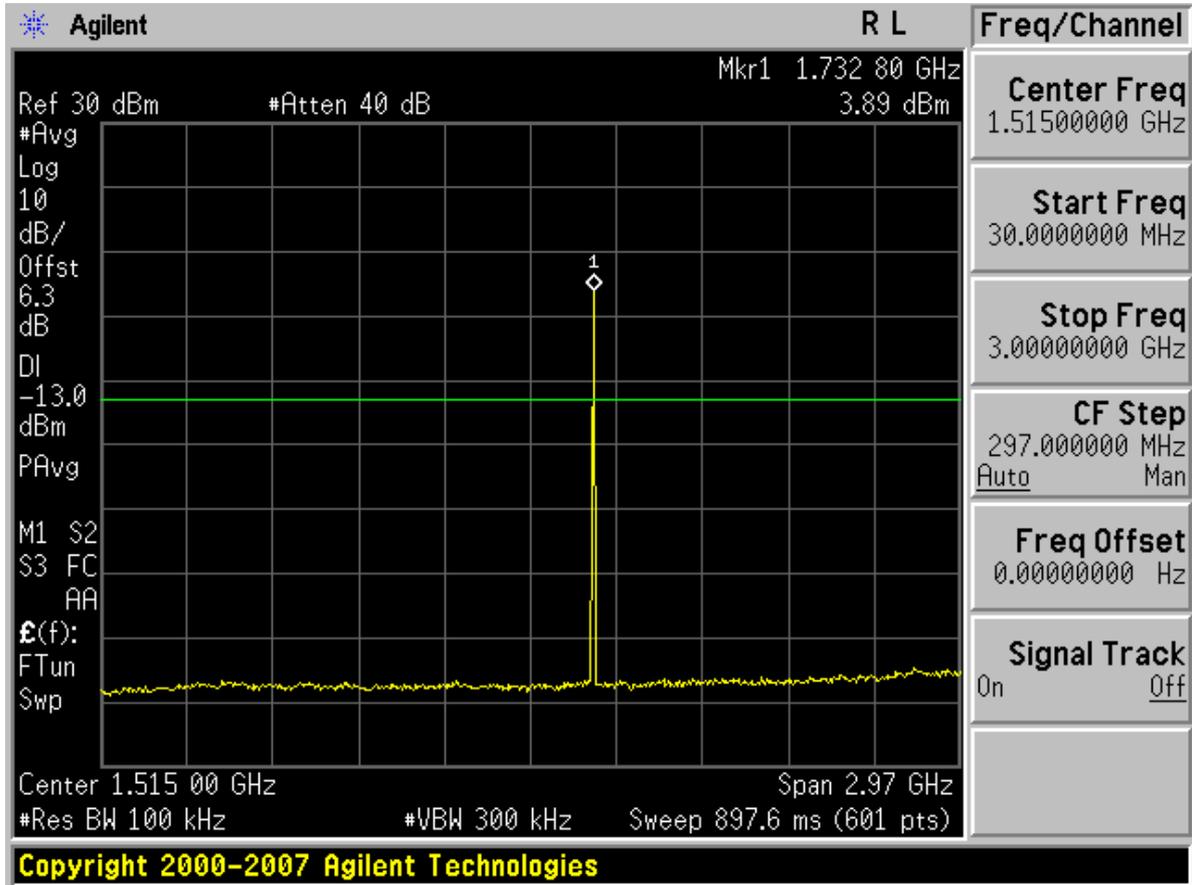


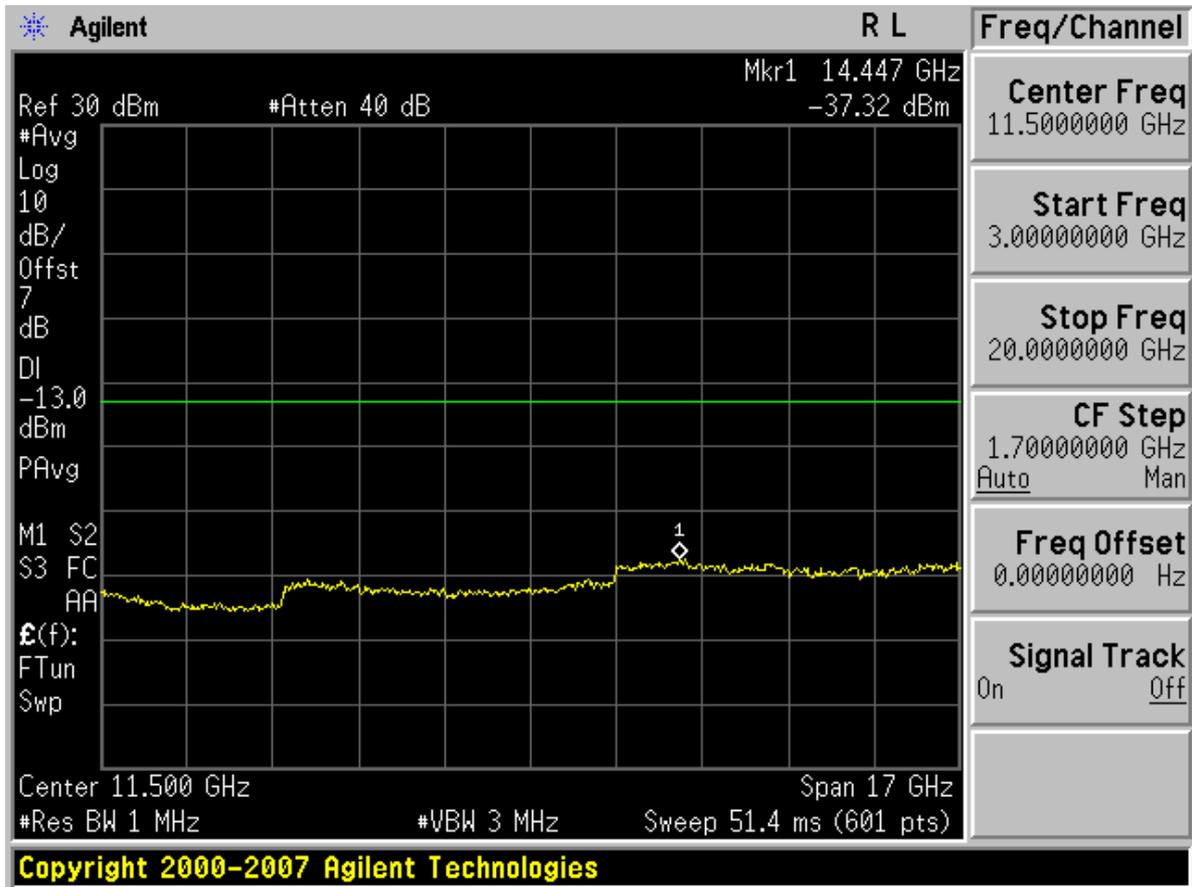


Channel 425



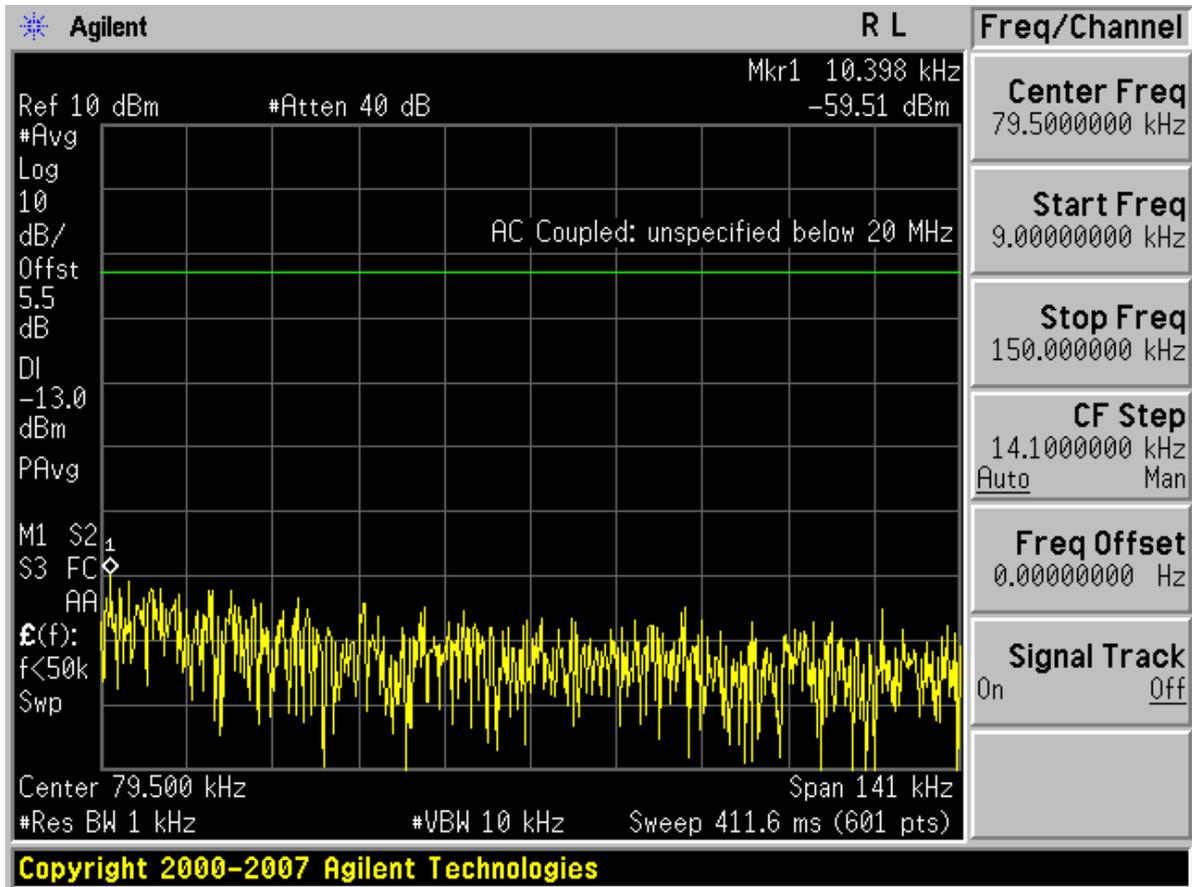


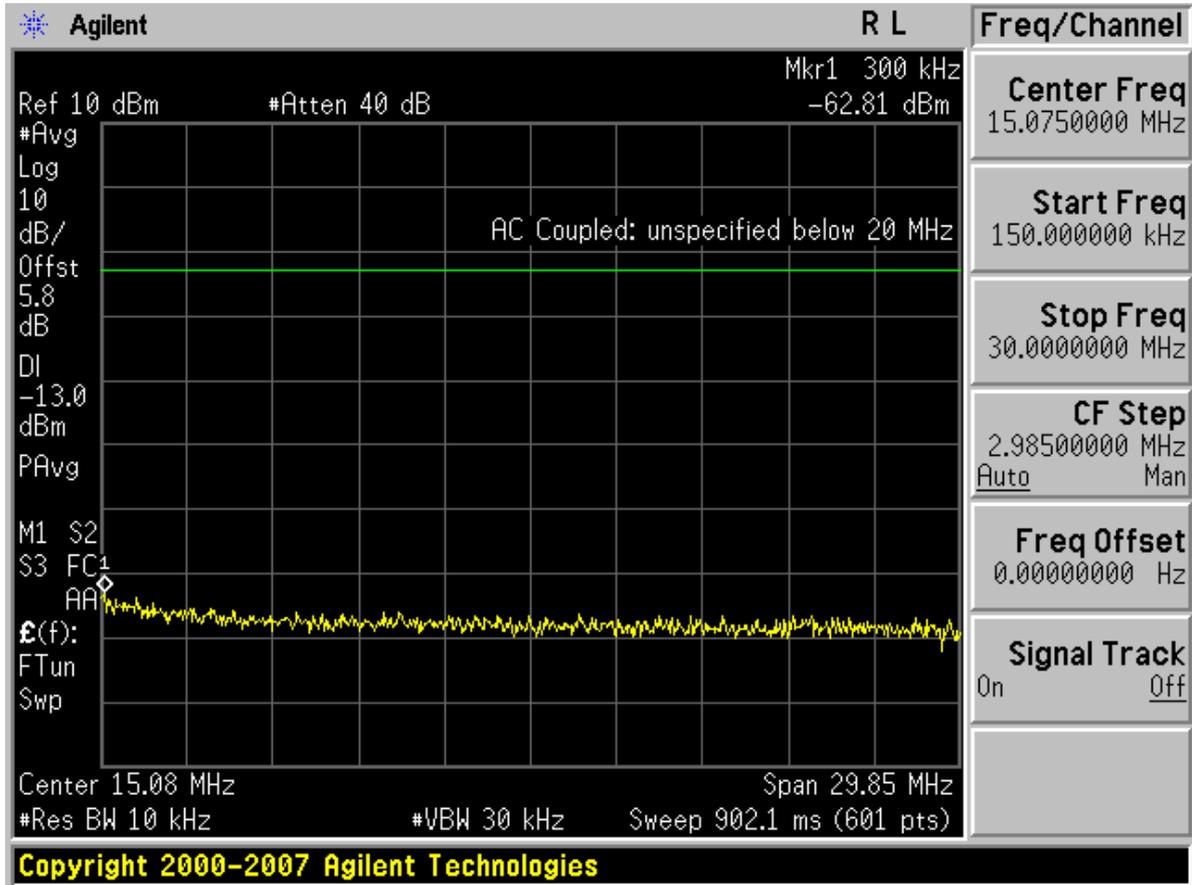


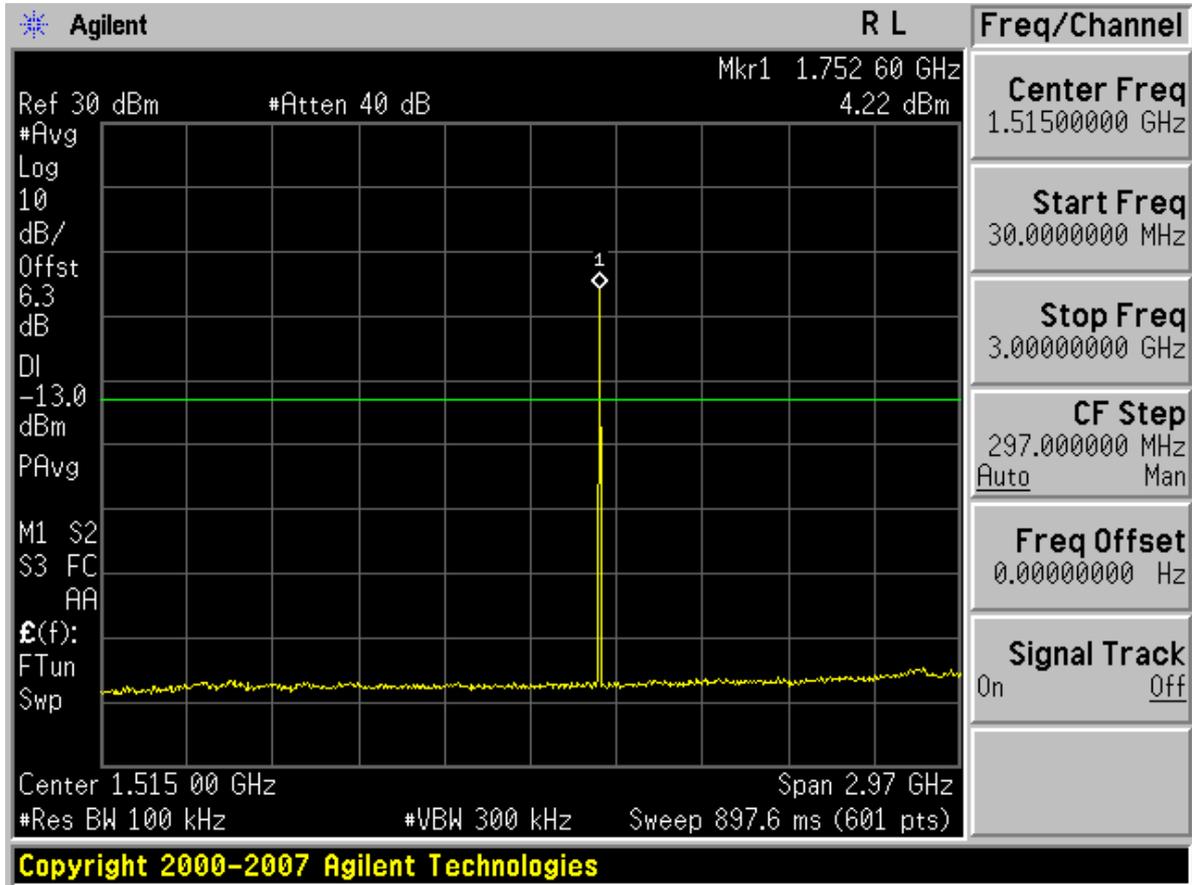


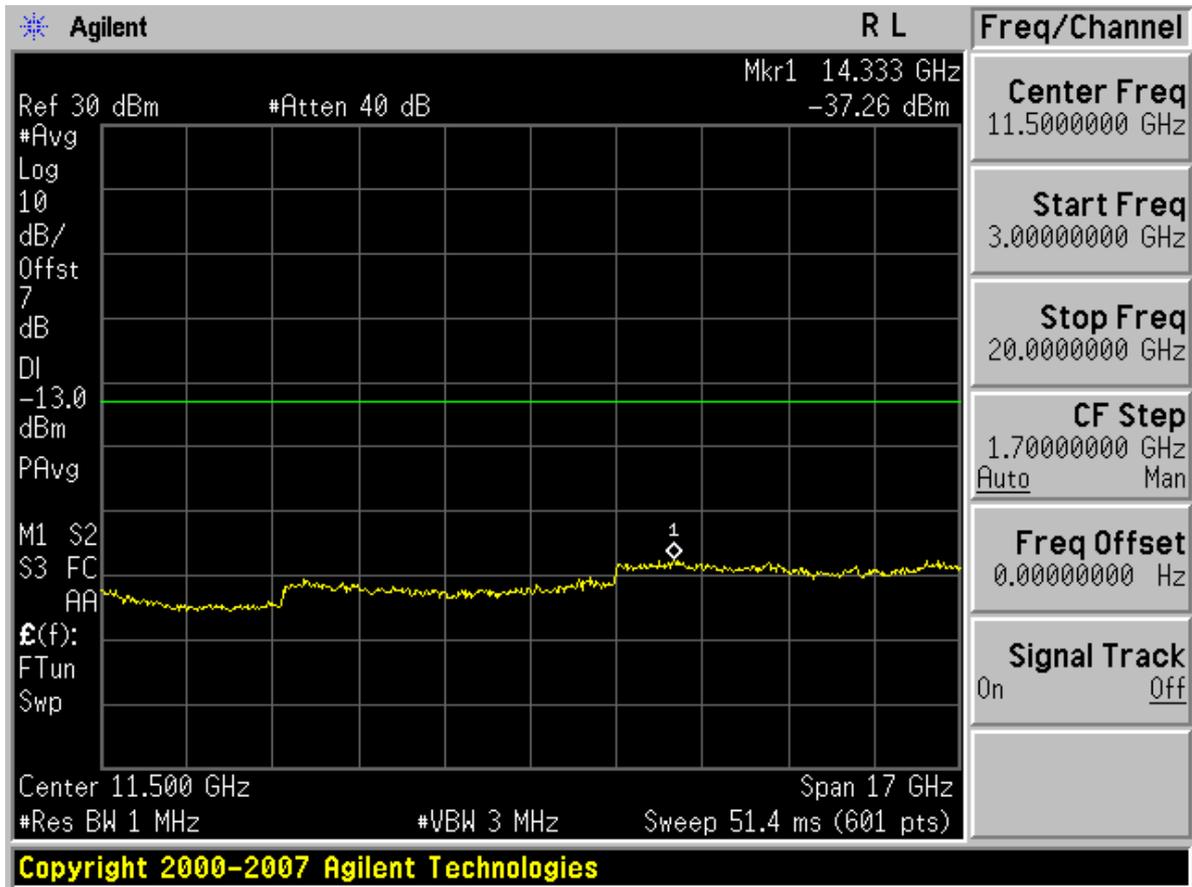


Channel 875



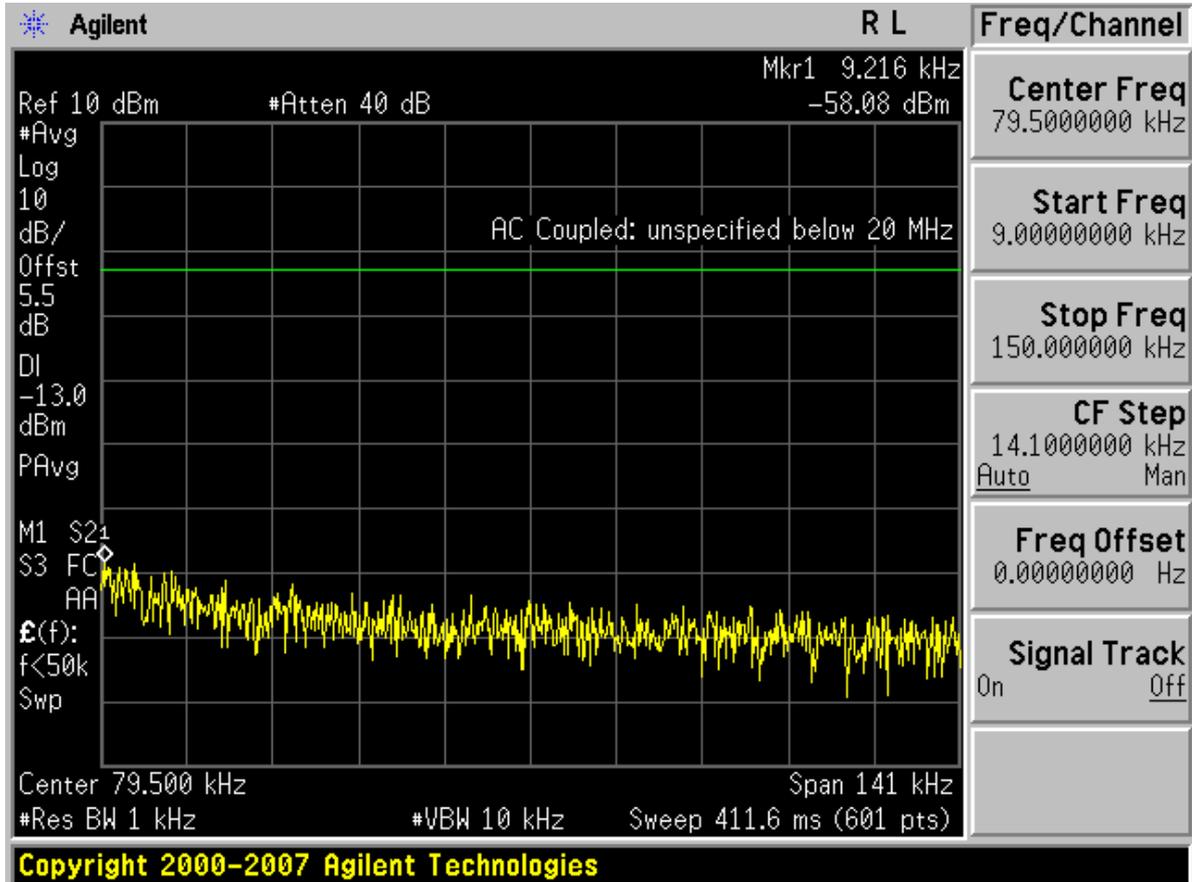


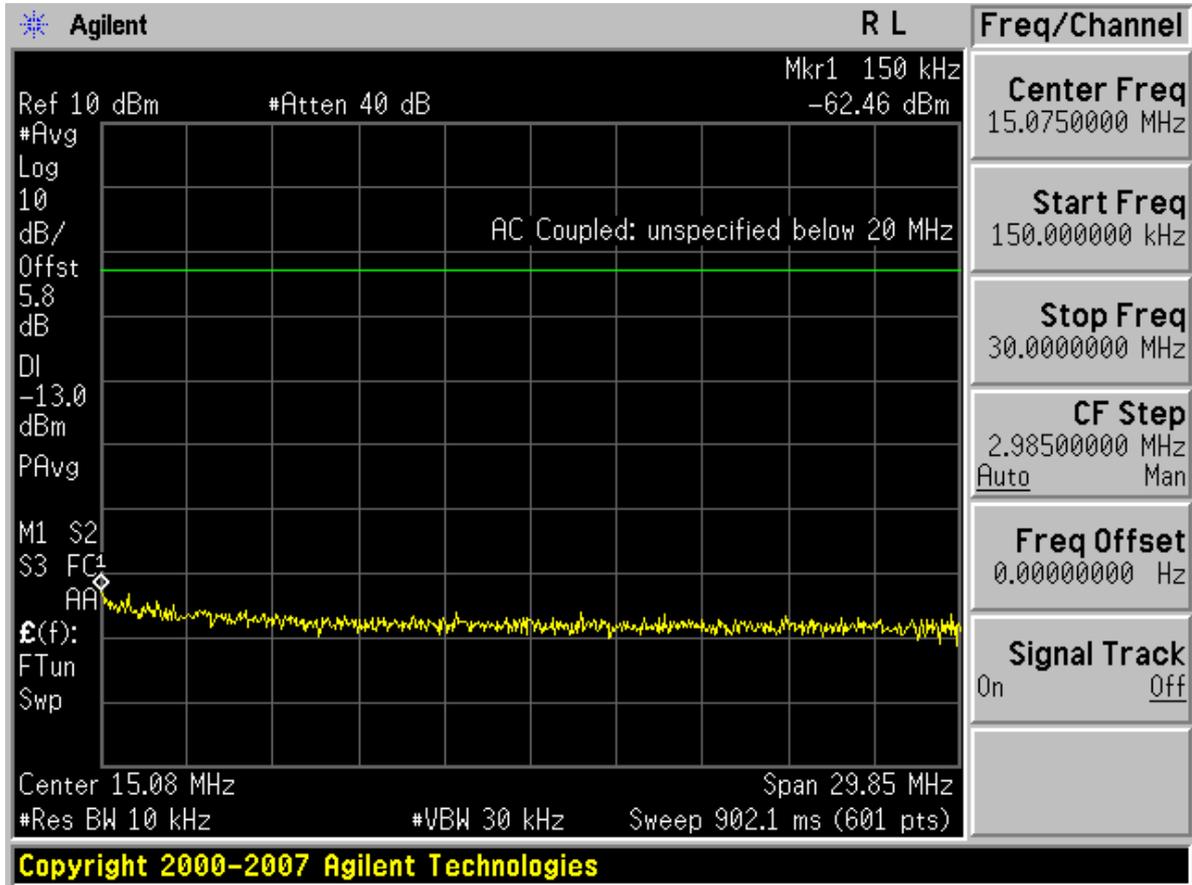


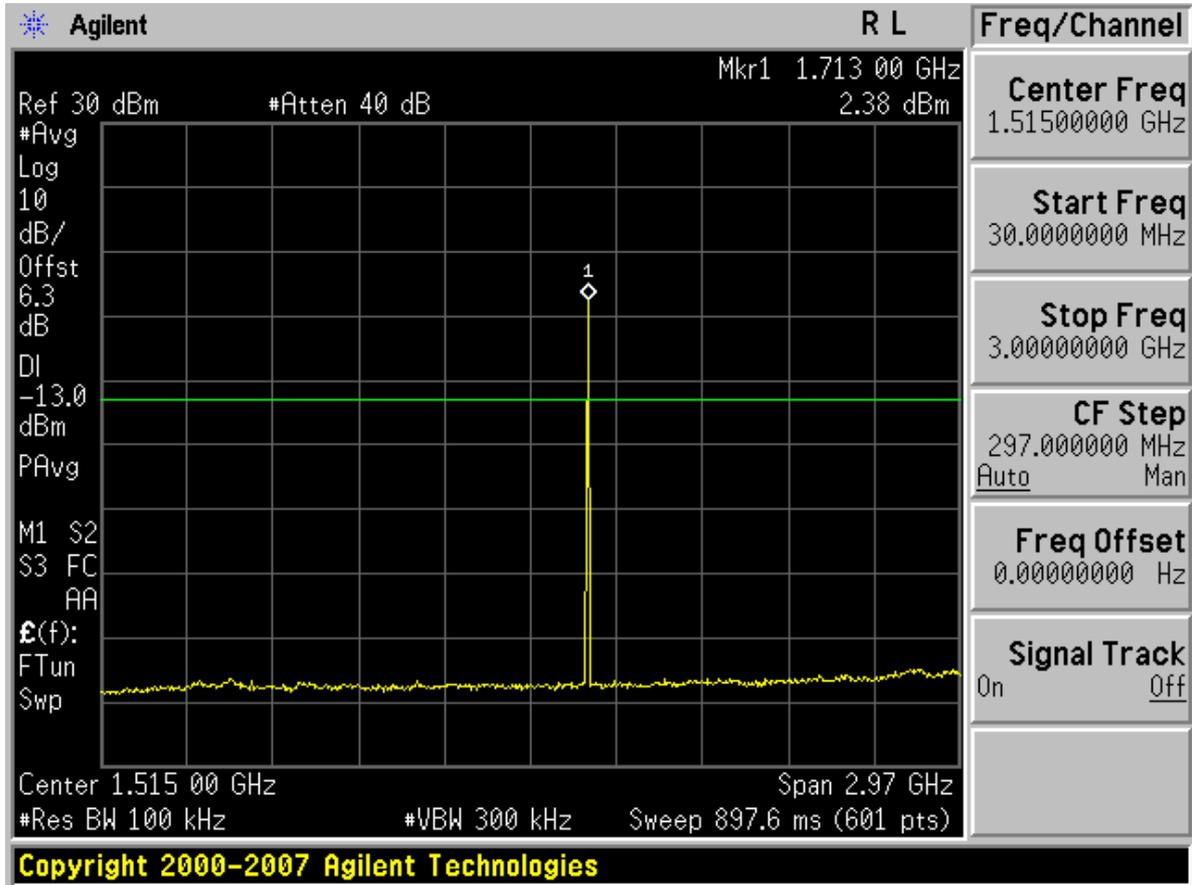


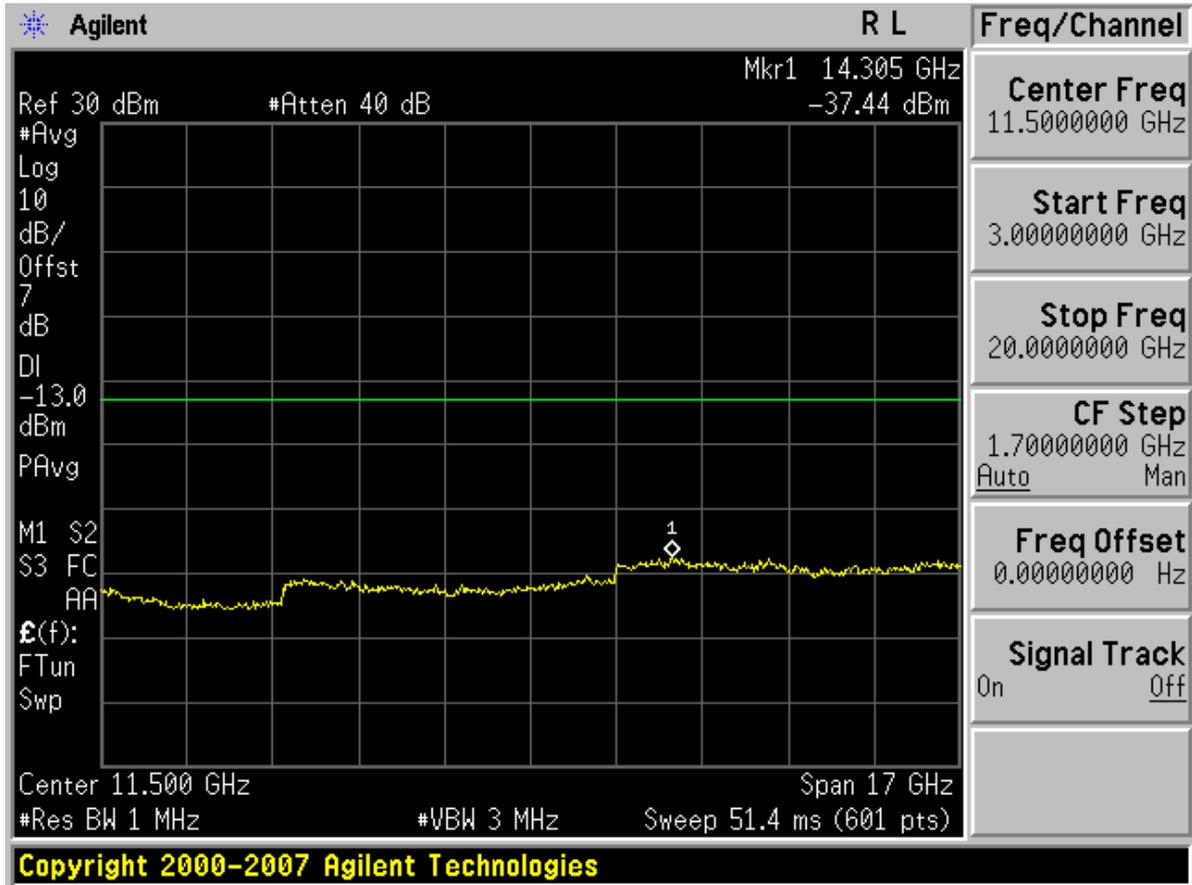


TM3 Channel 25



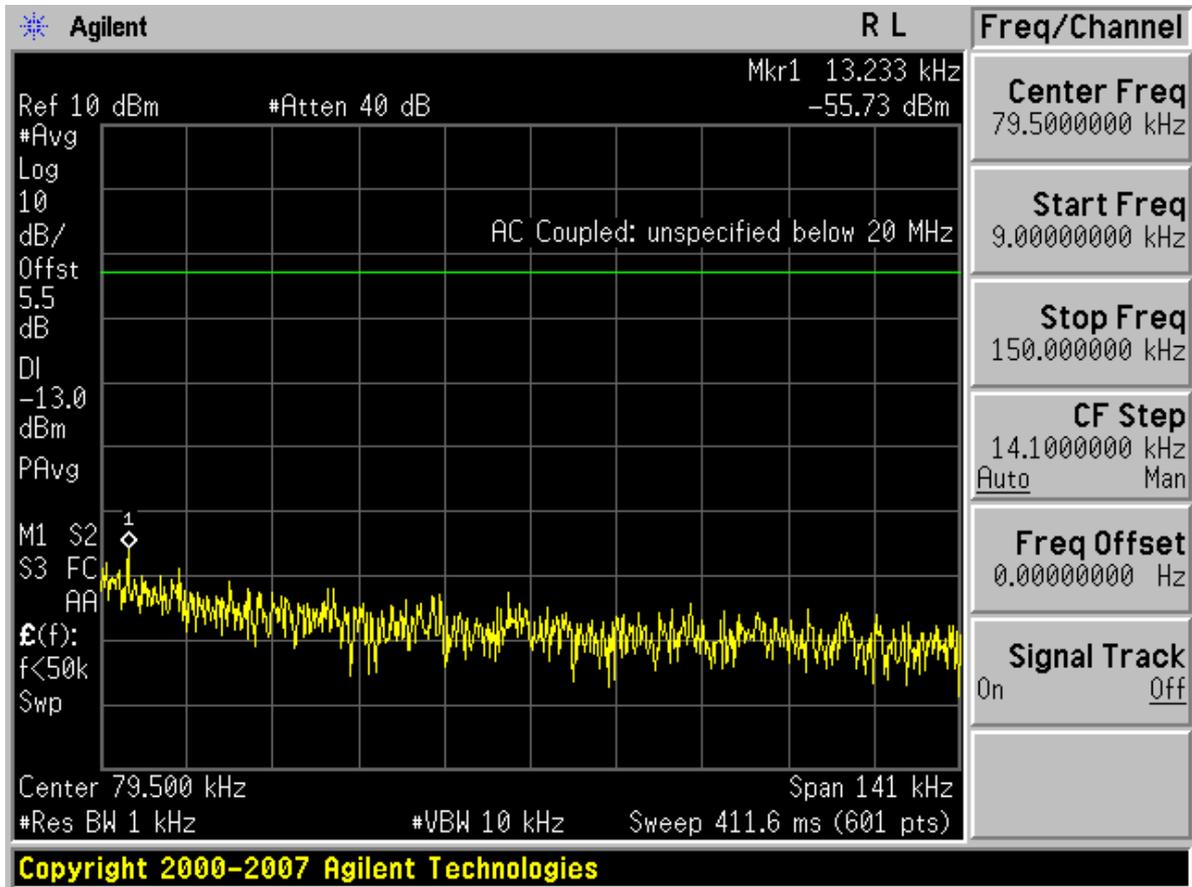


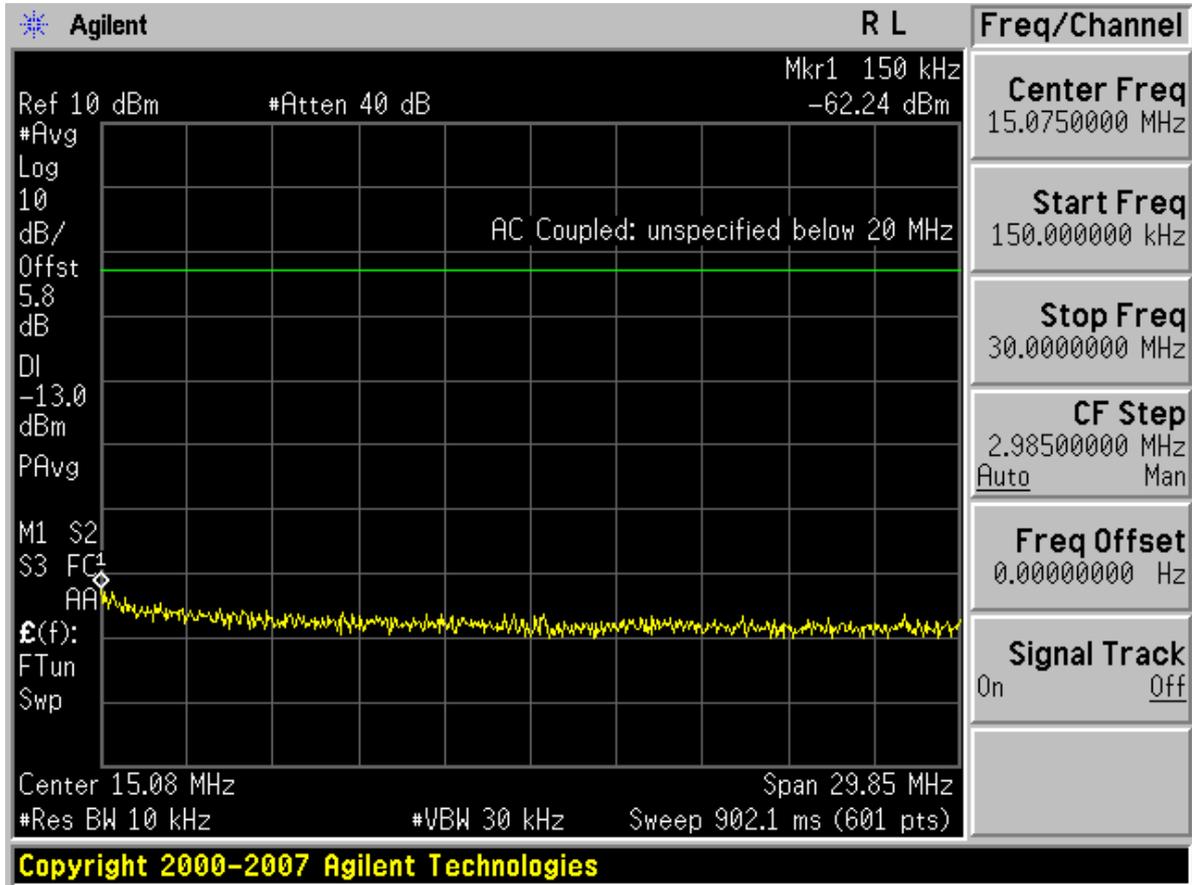


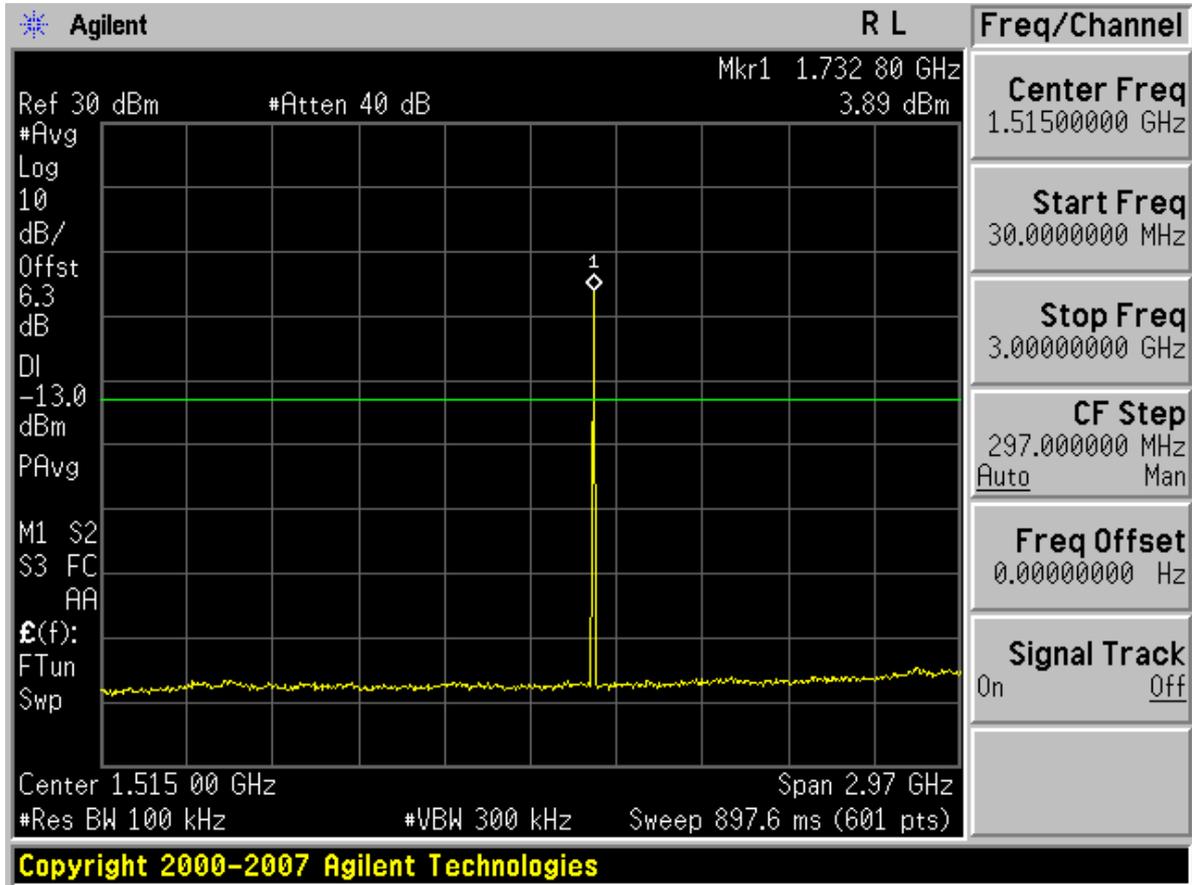


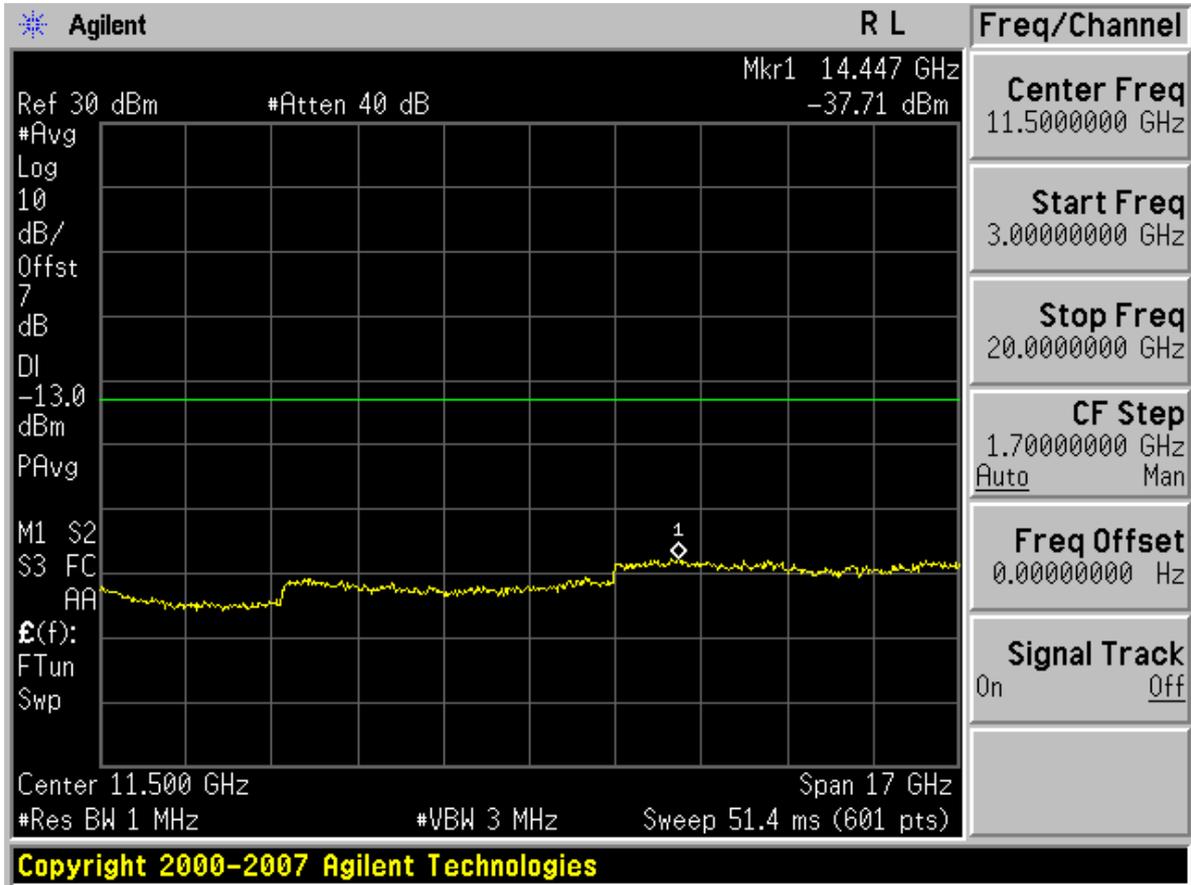


Channel 425



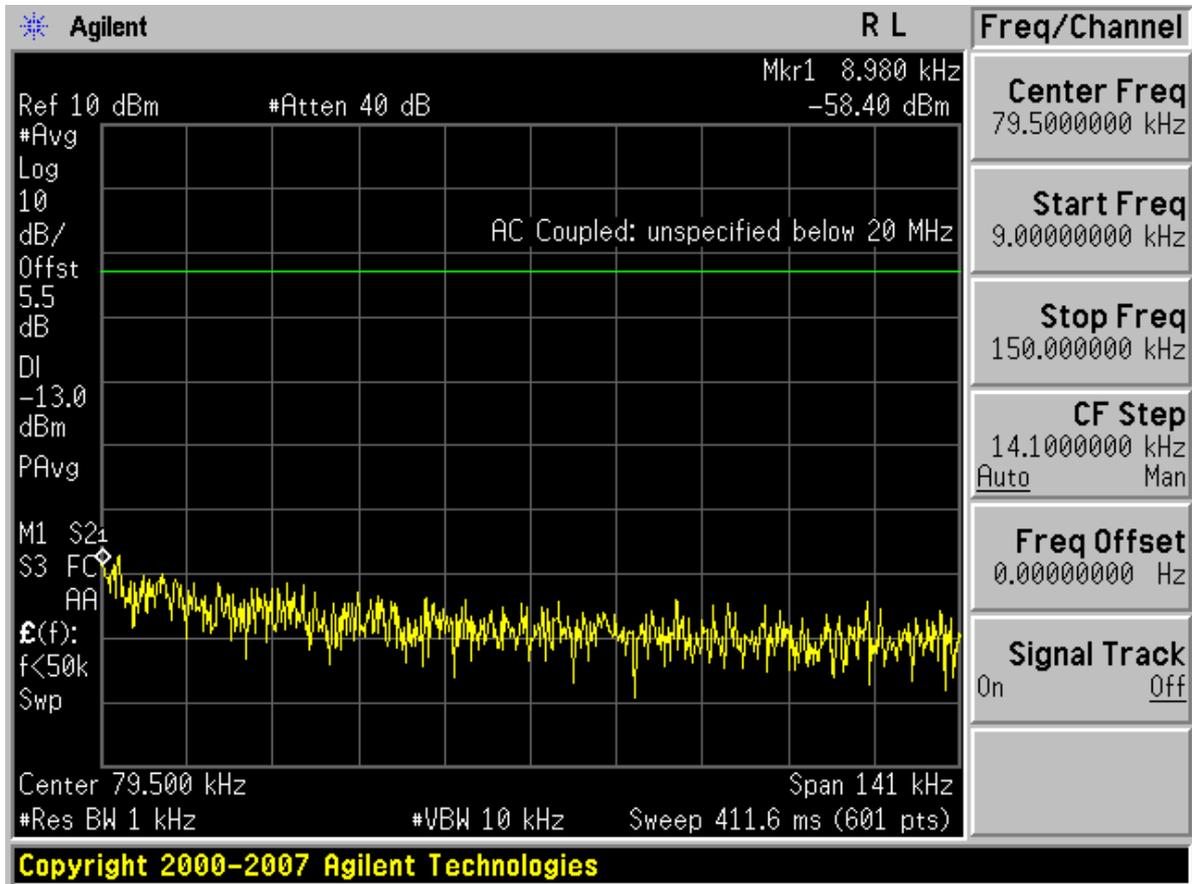


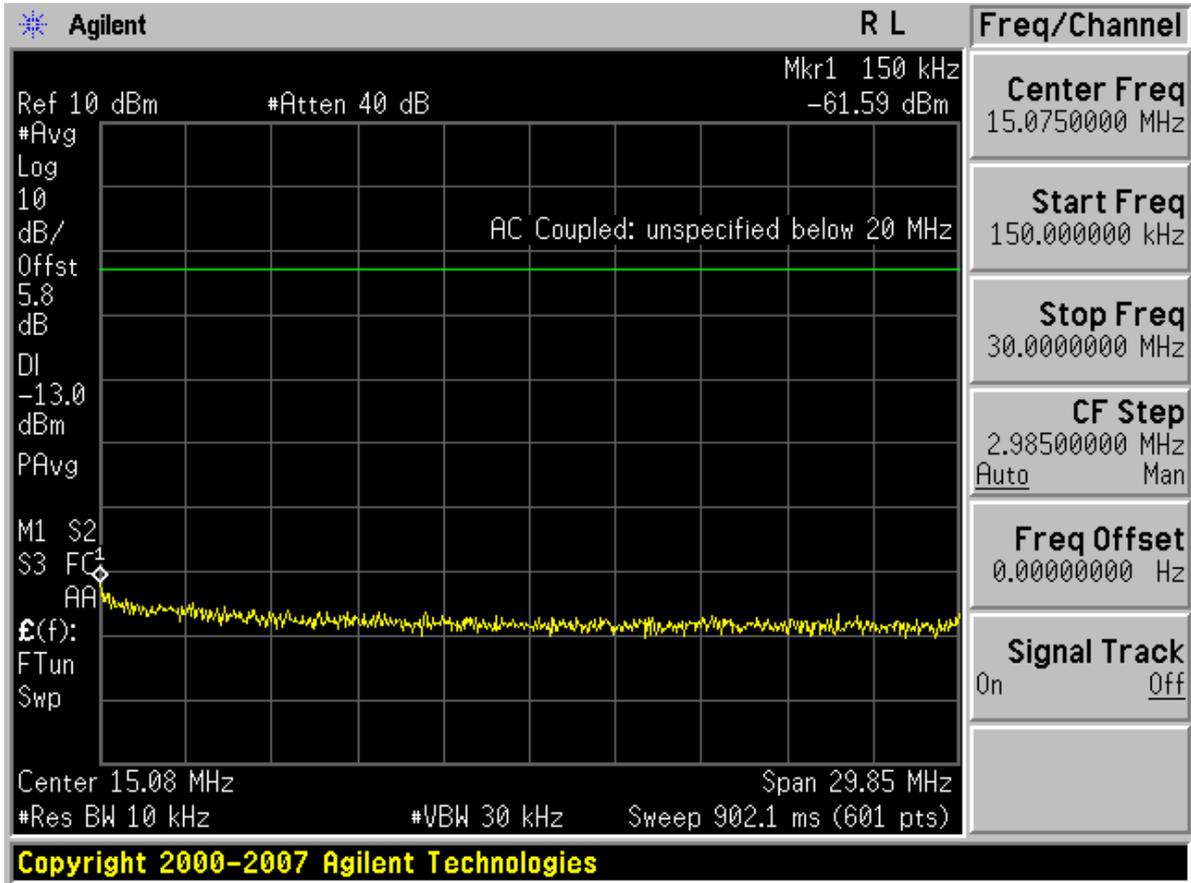


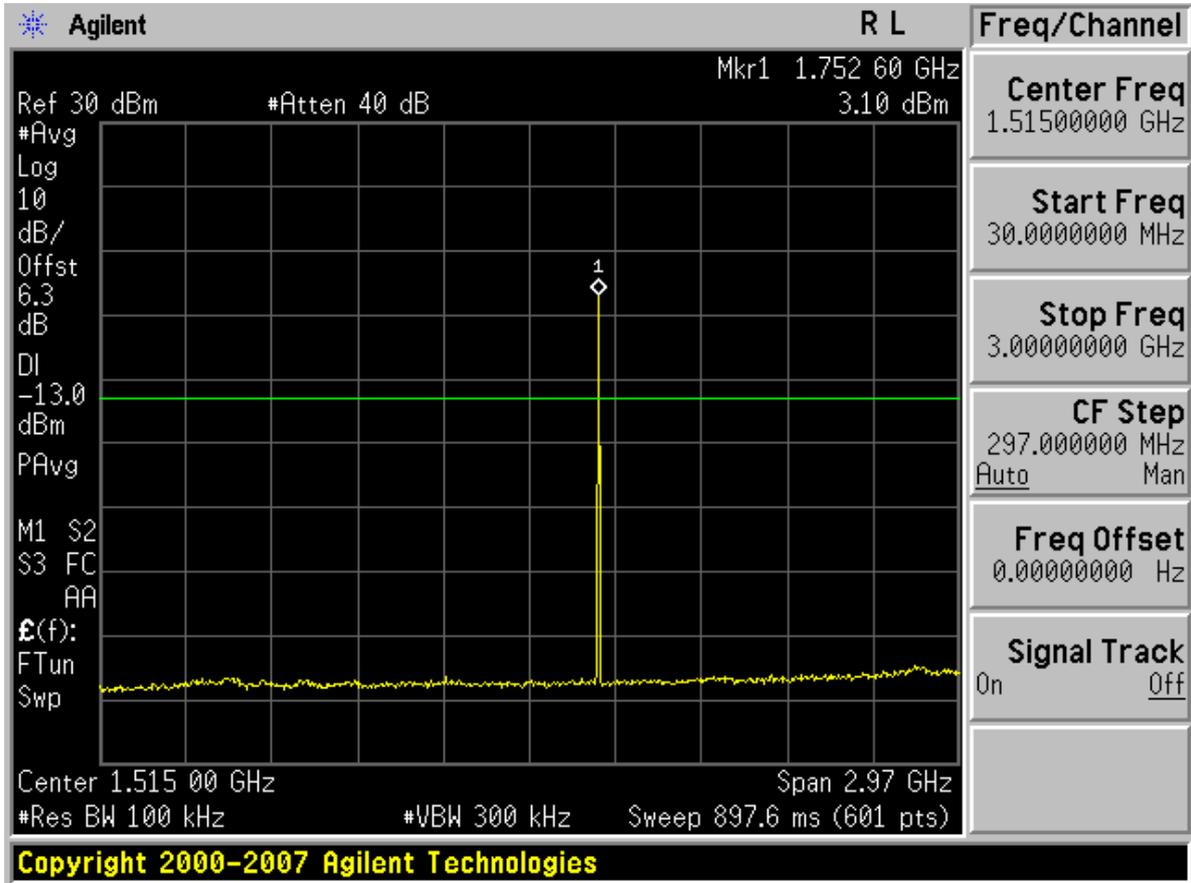


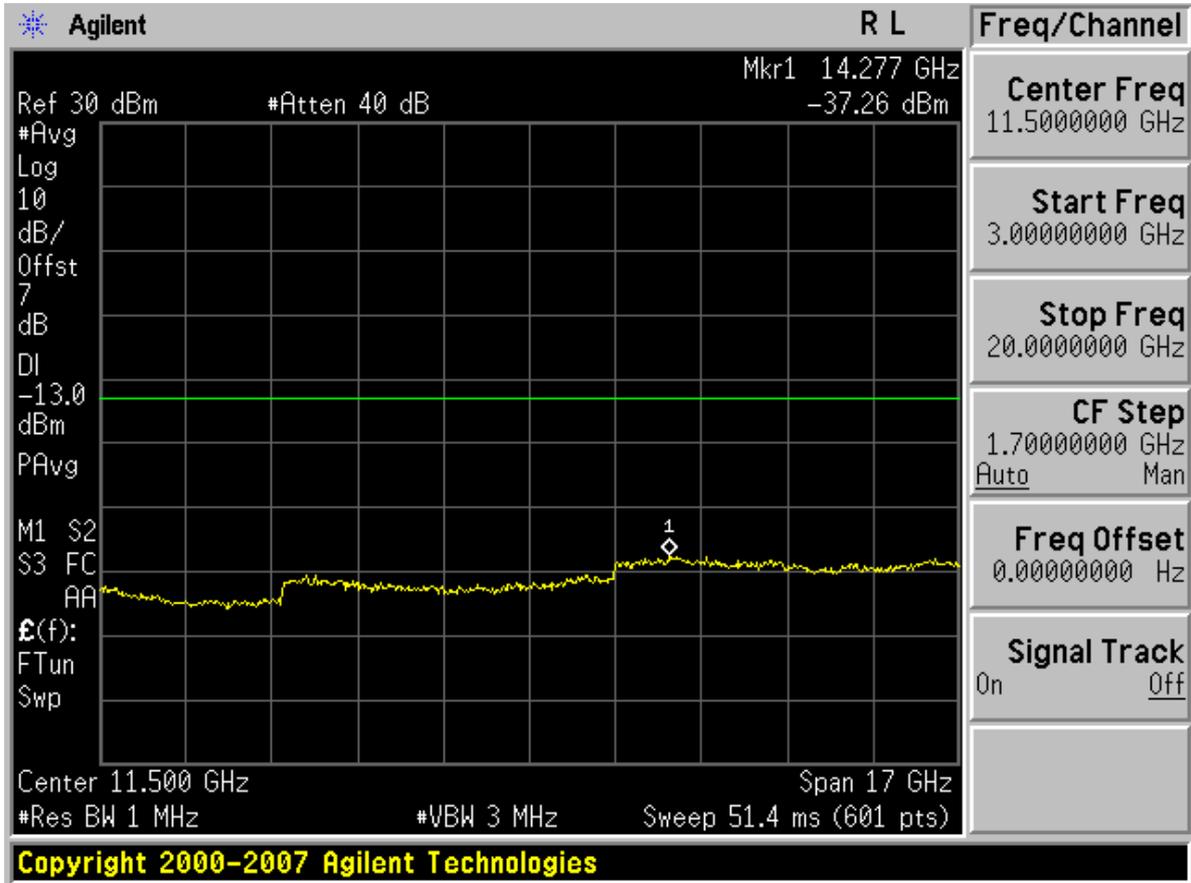


Channel 875





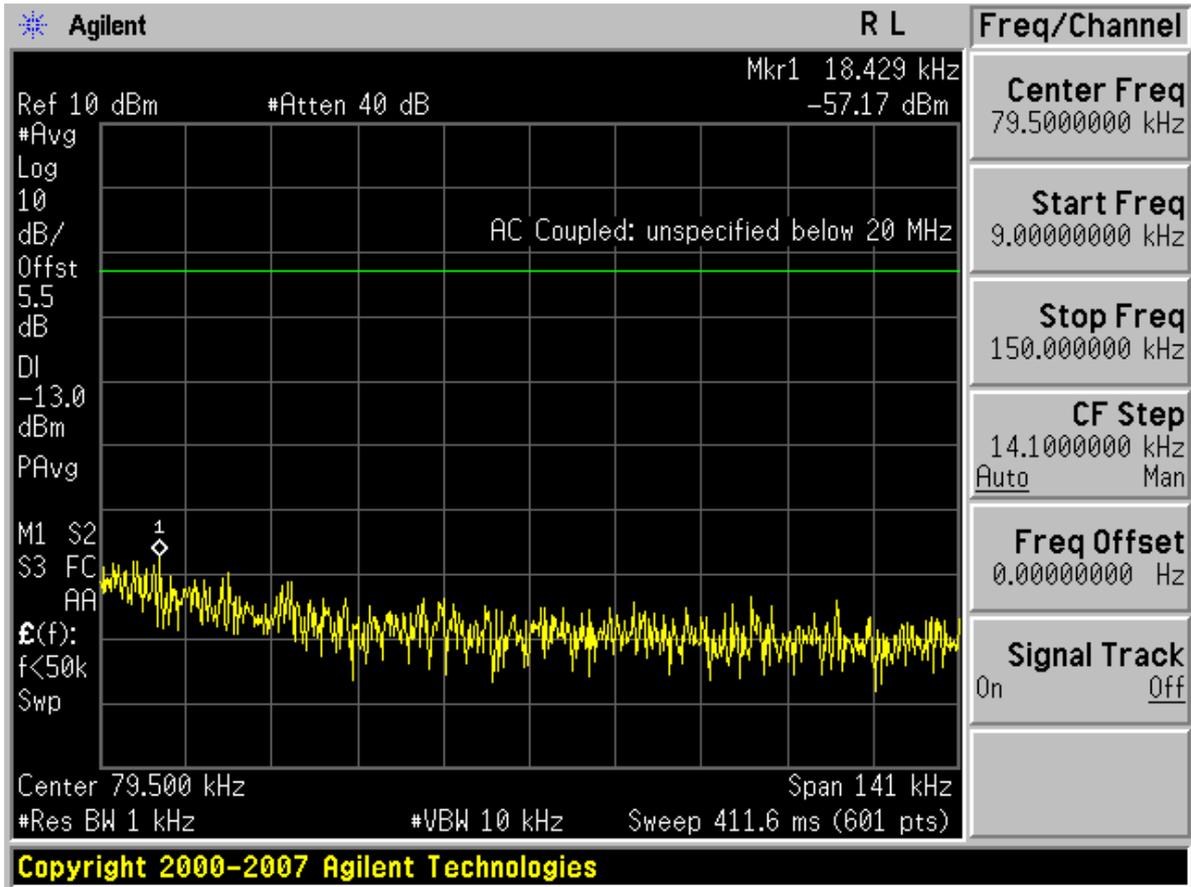


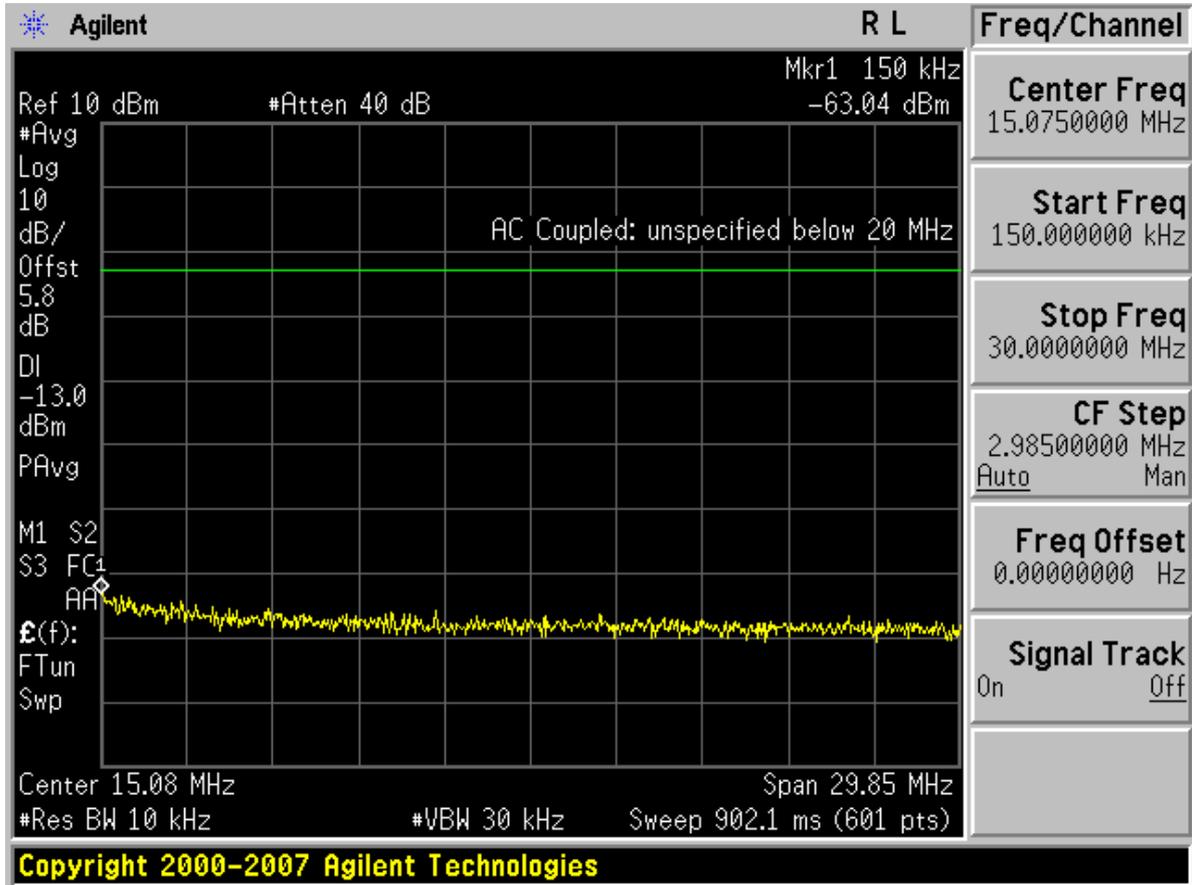


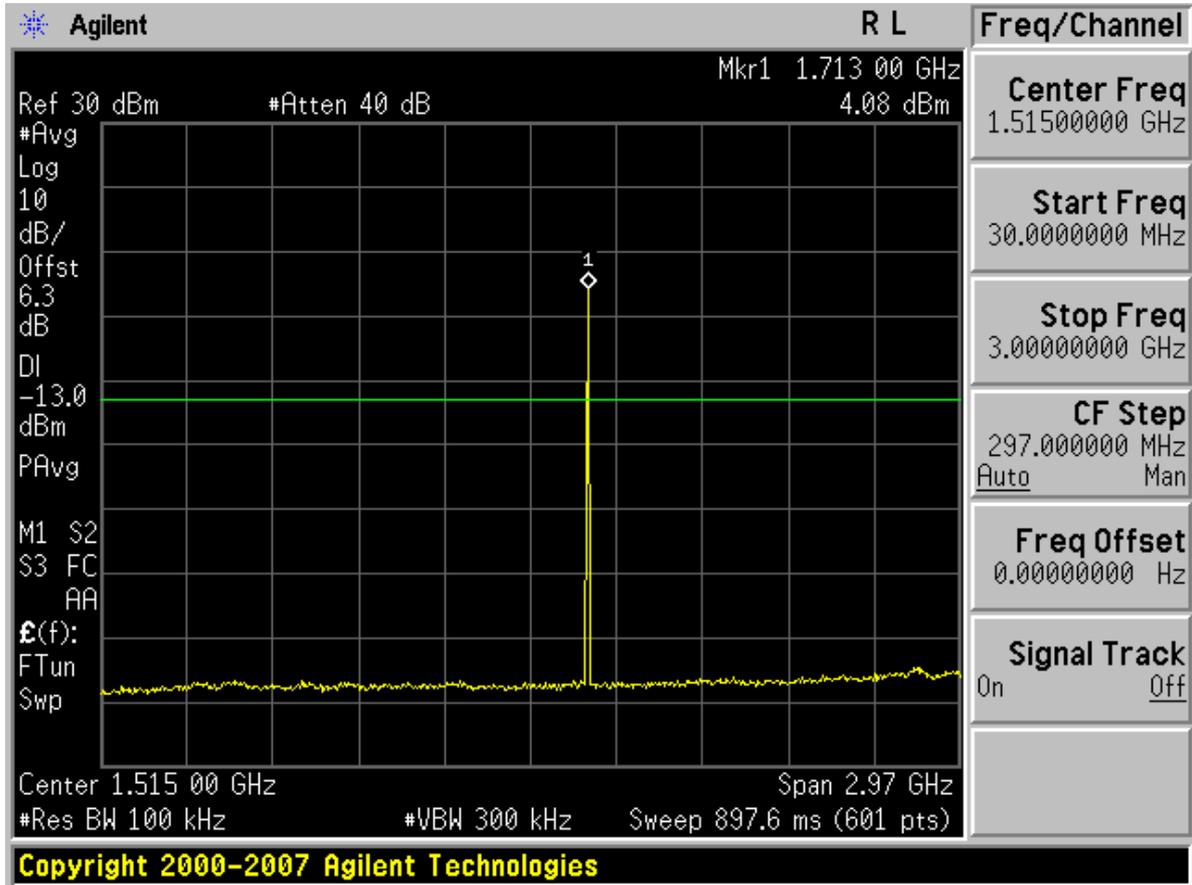


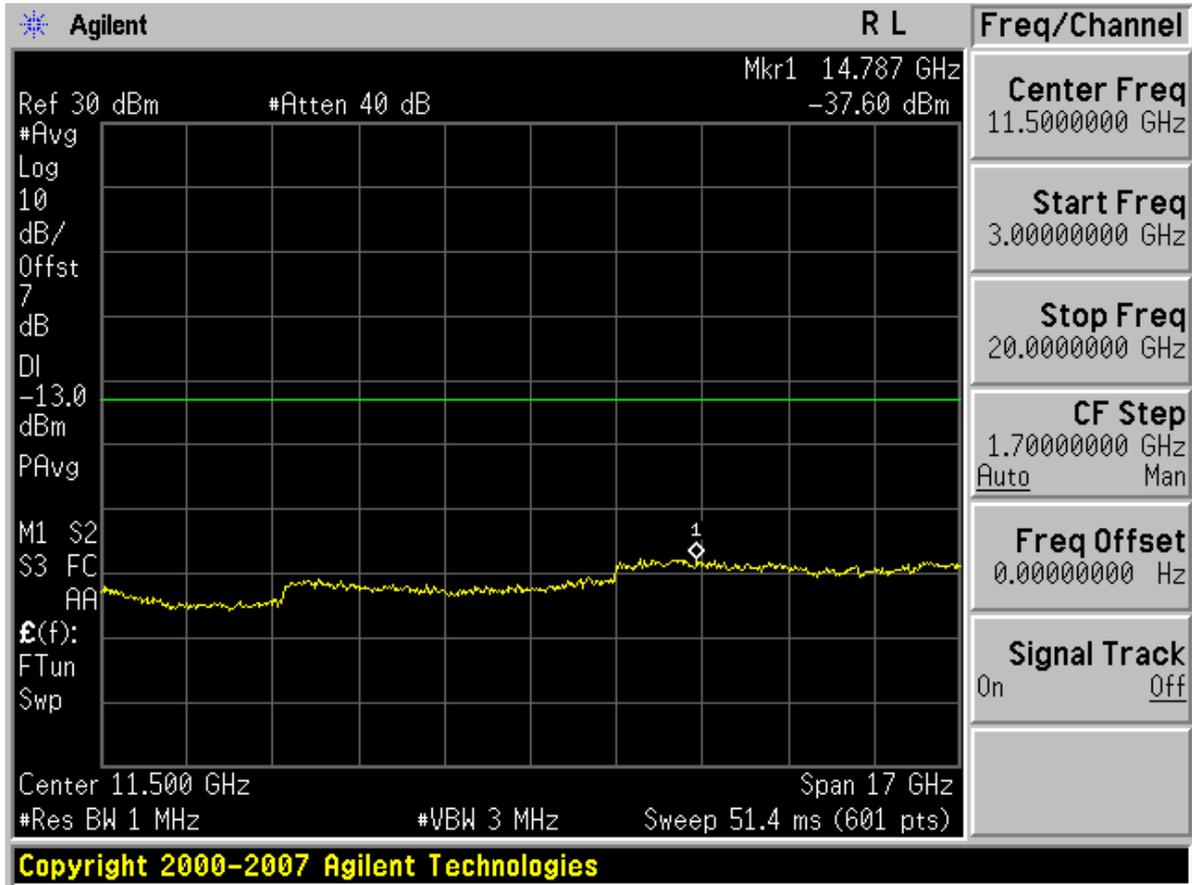
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Channel 25



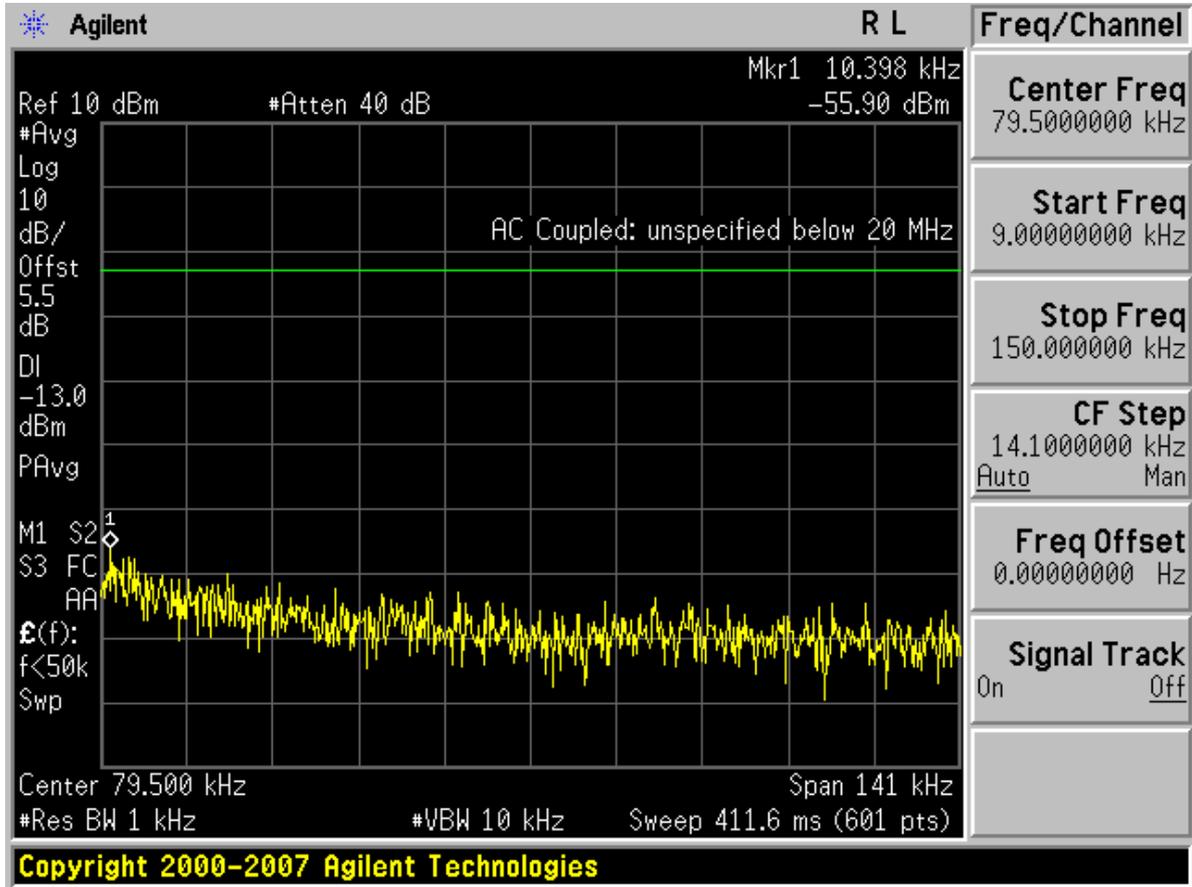


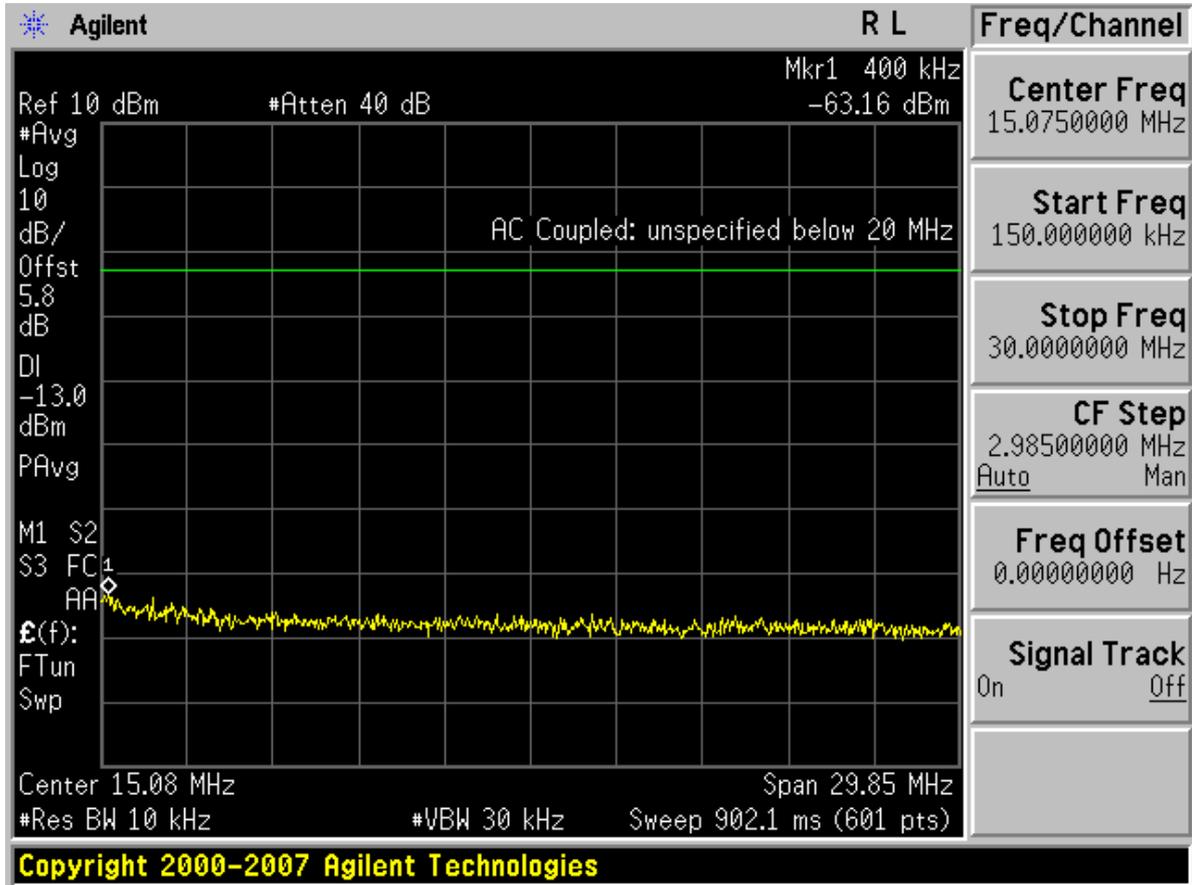


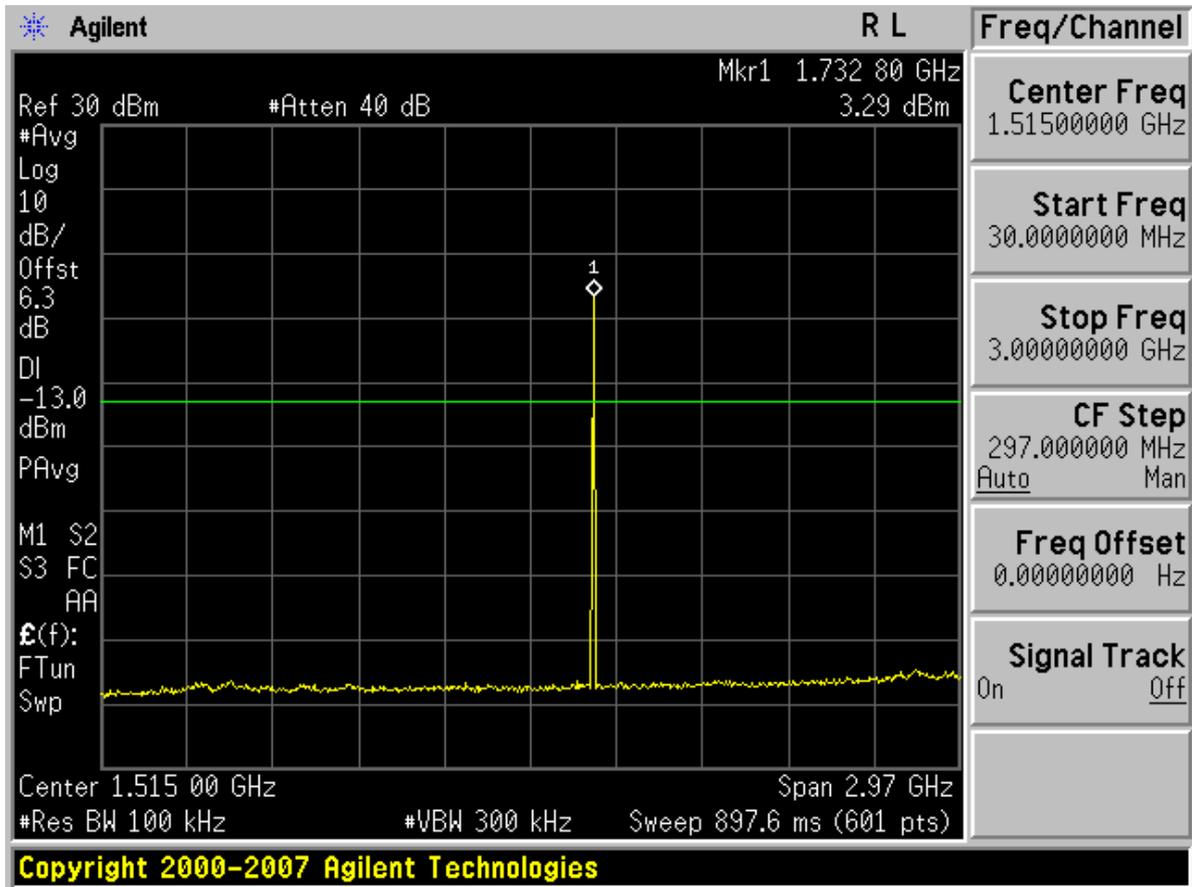


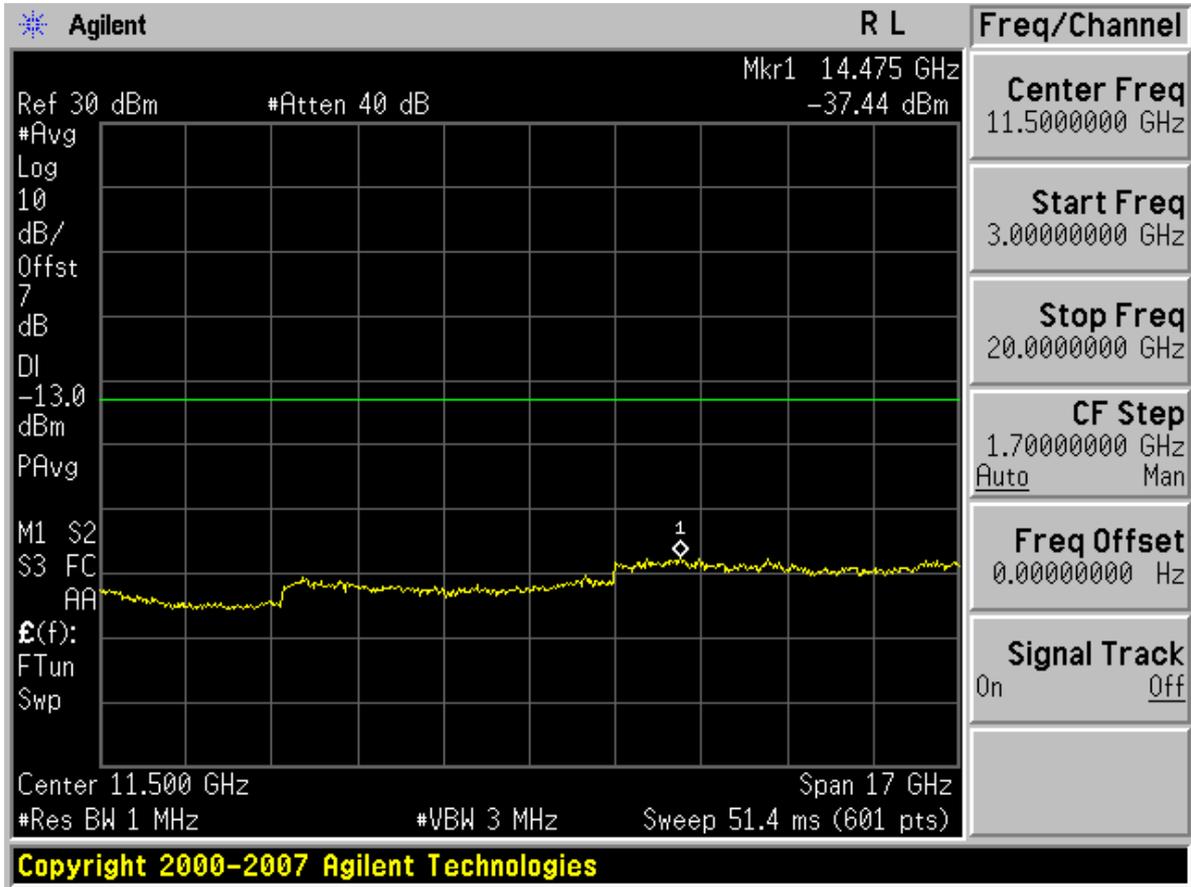


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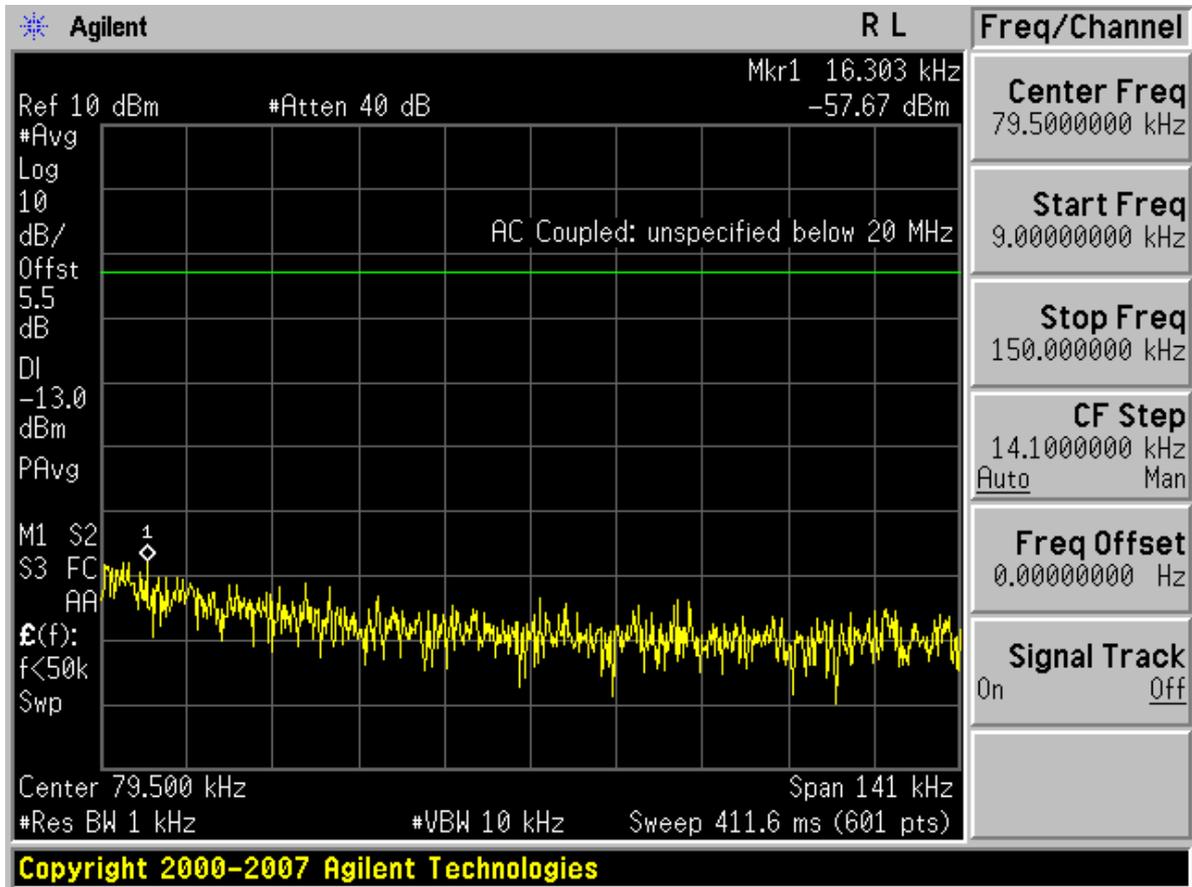


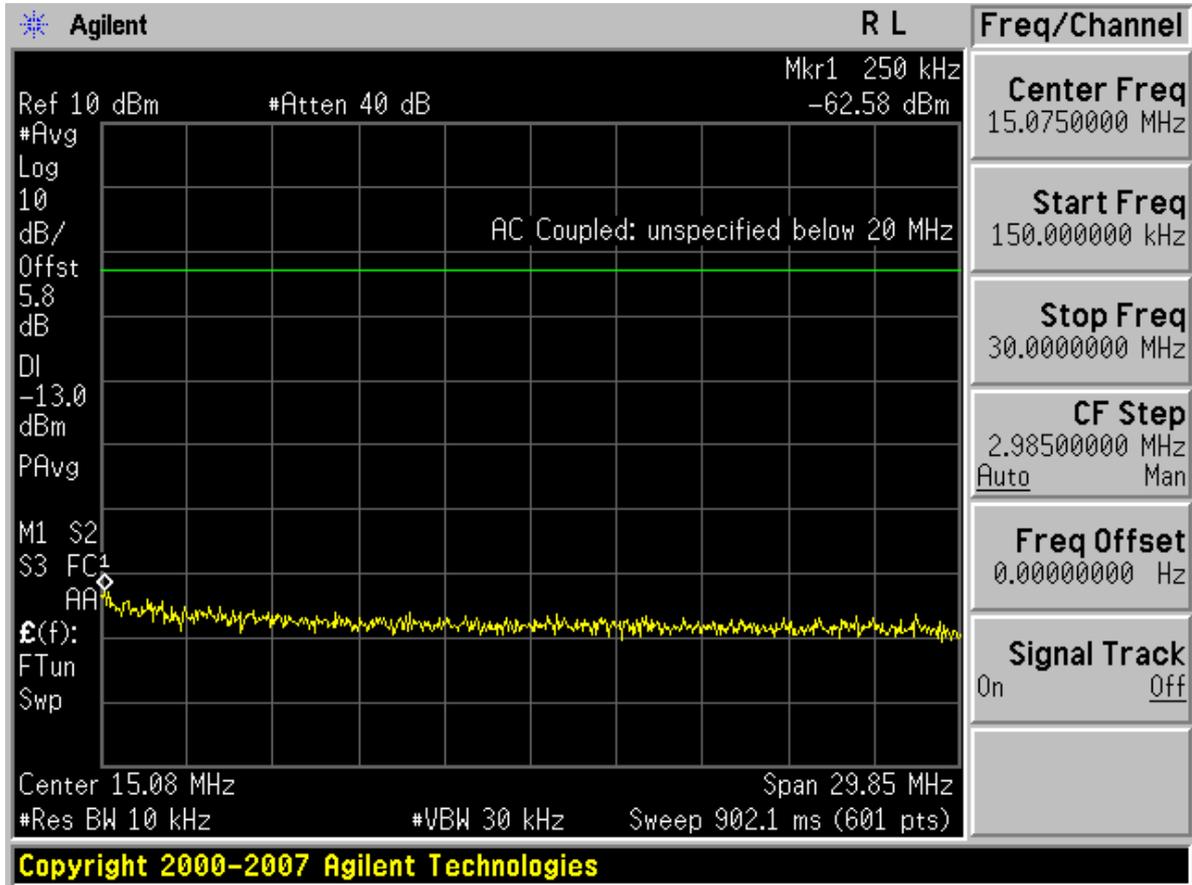


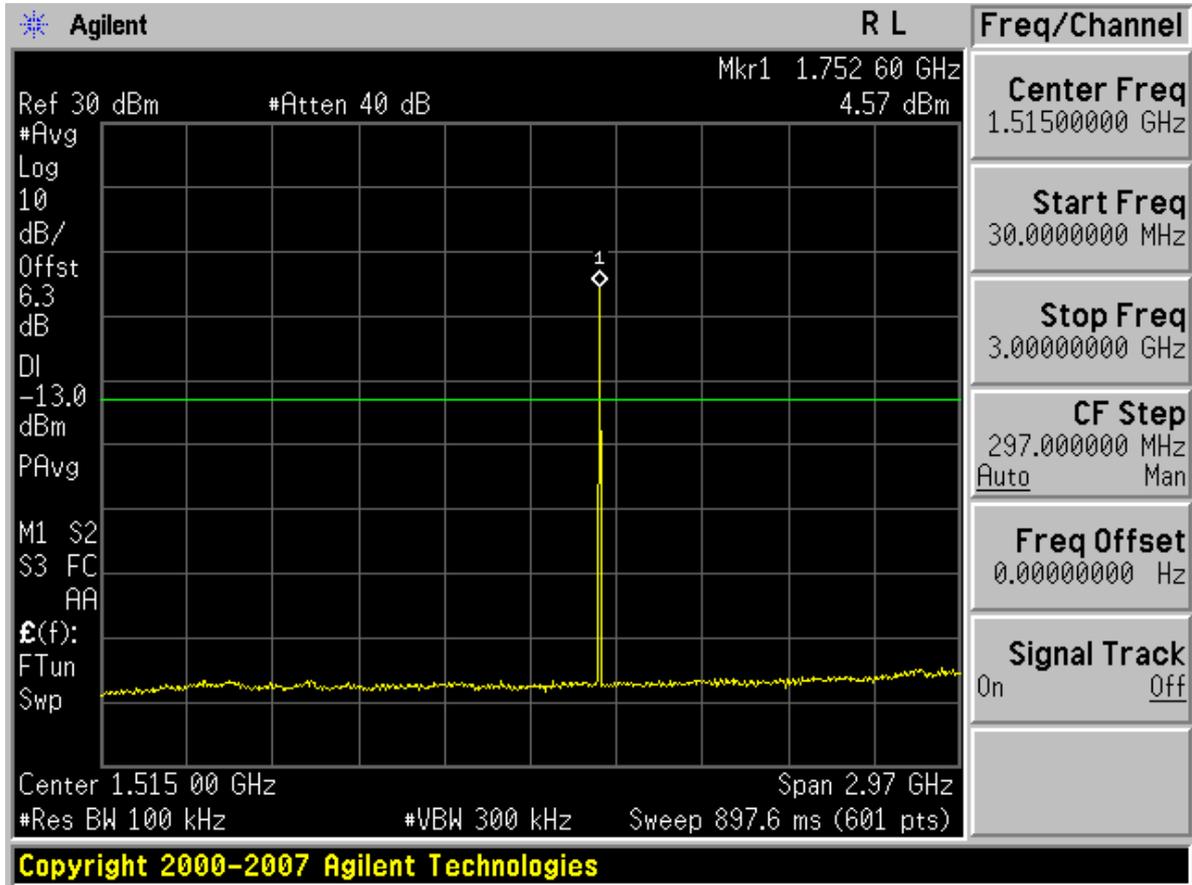


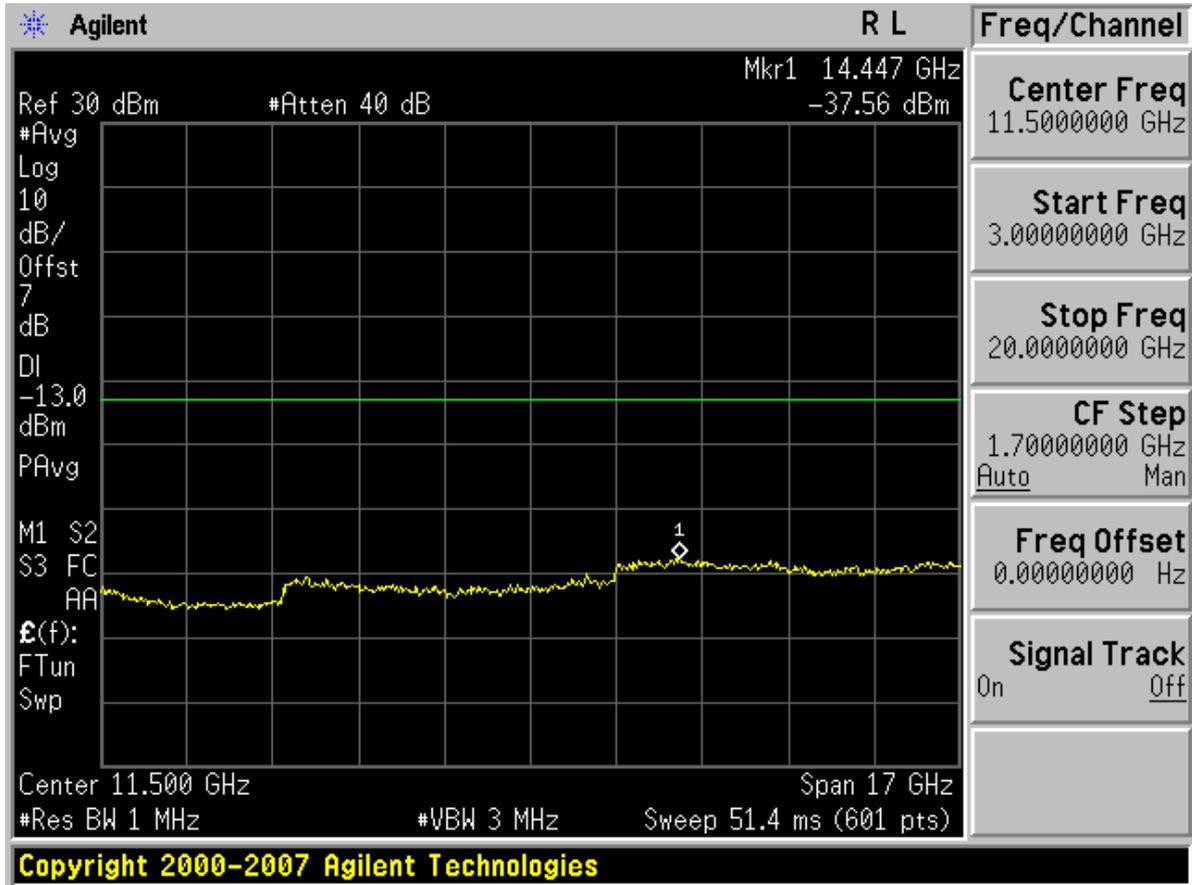


Channel 875







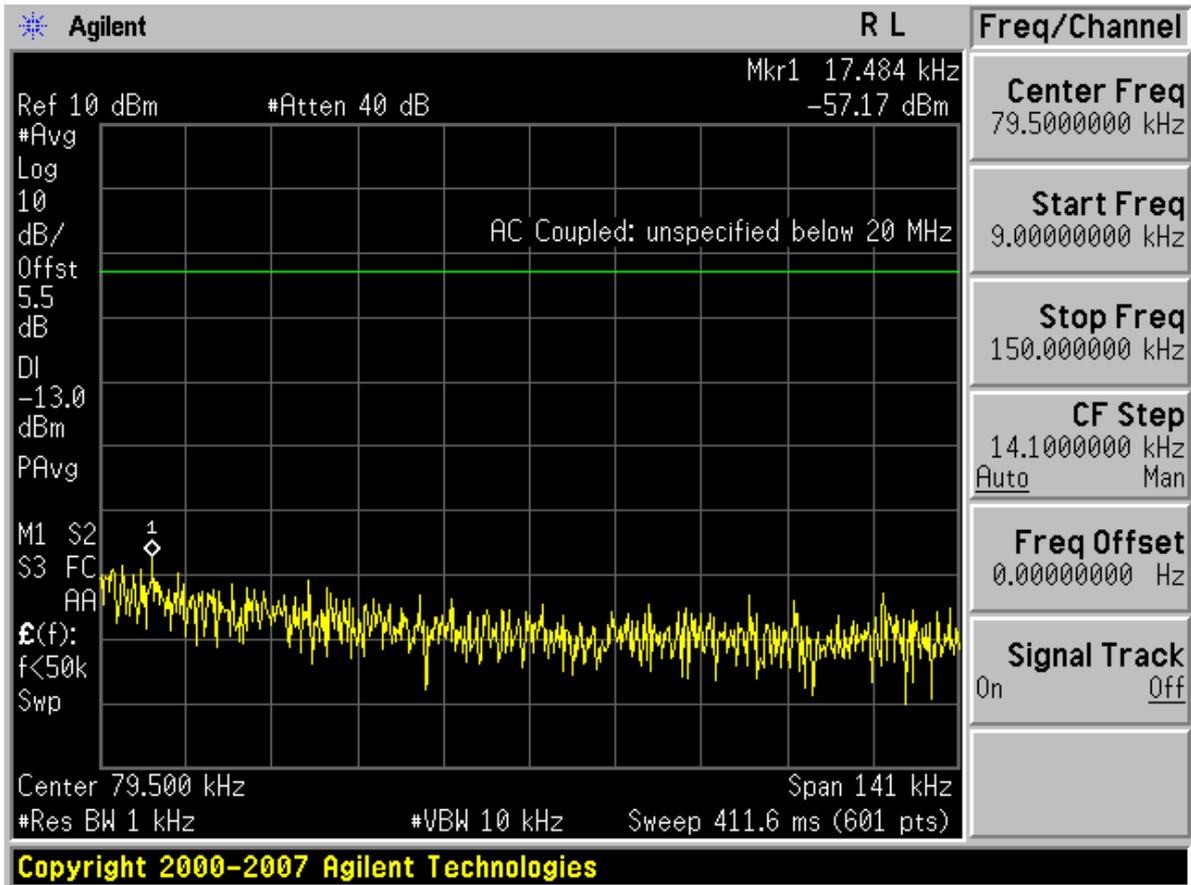


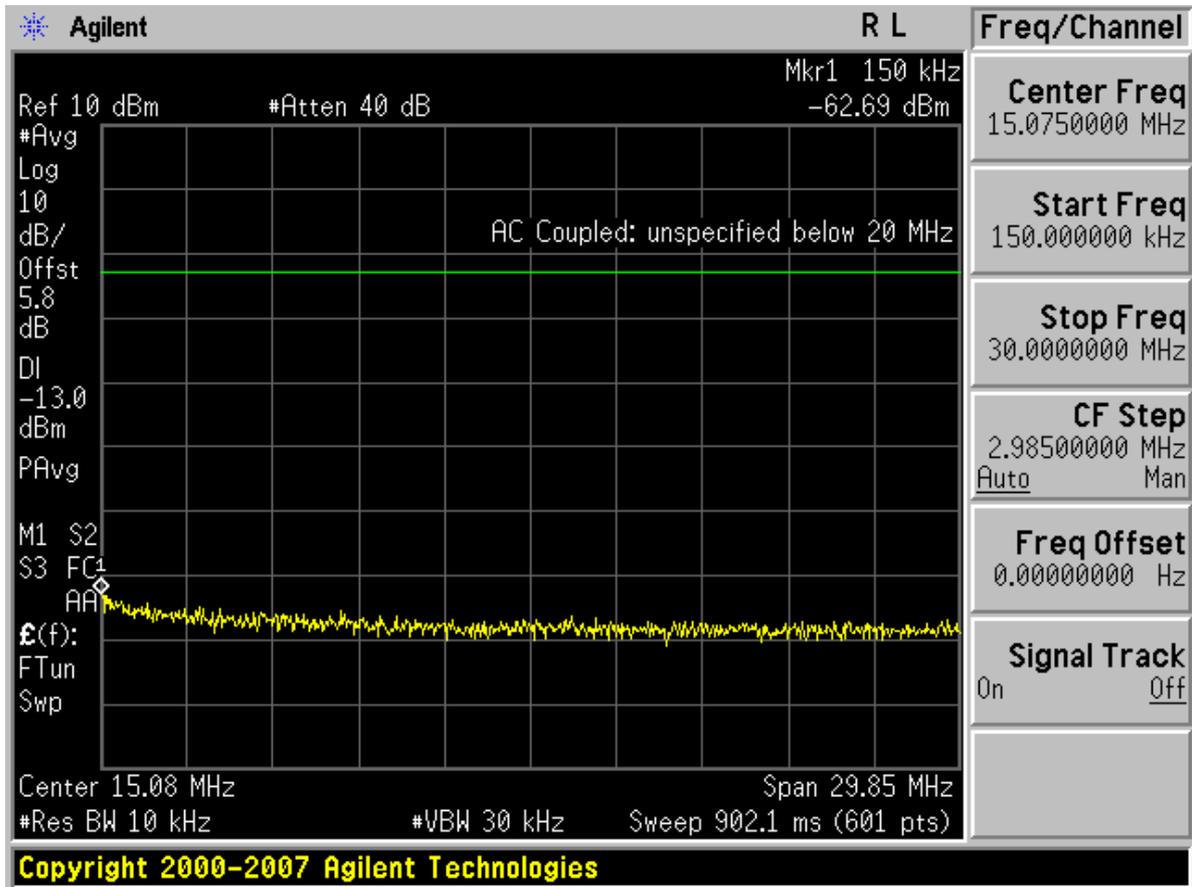


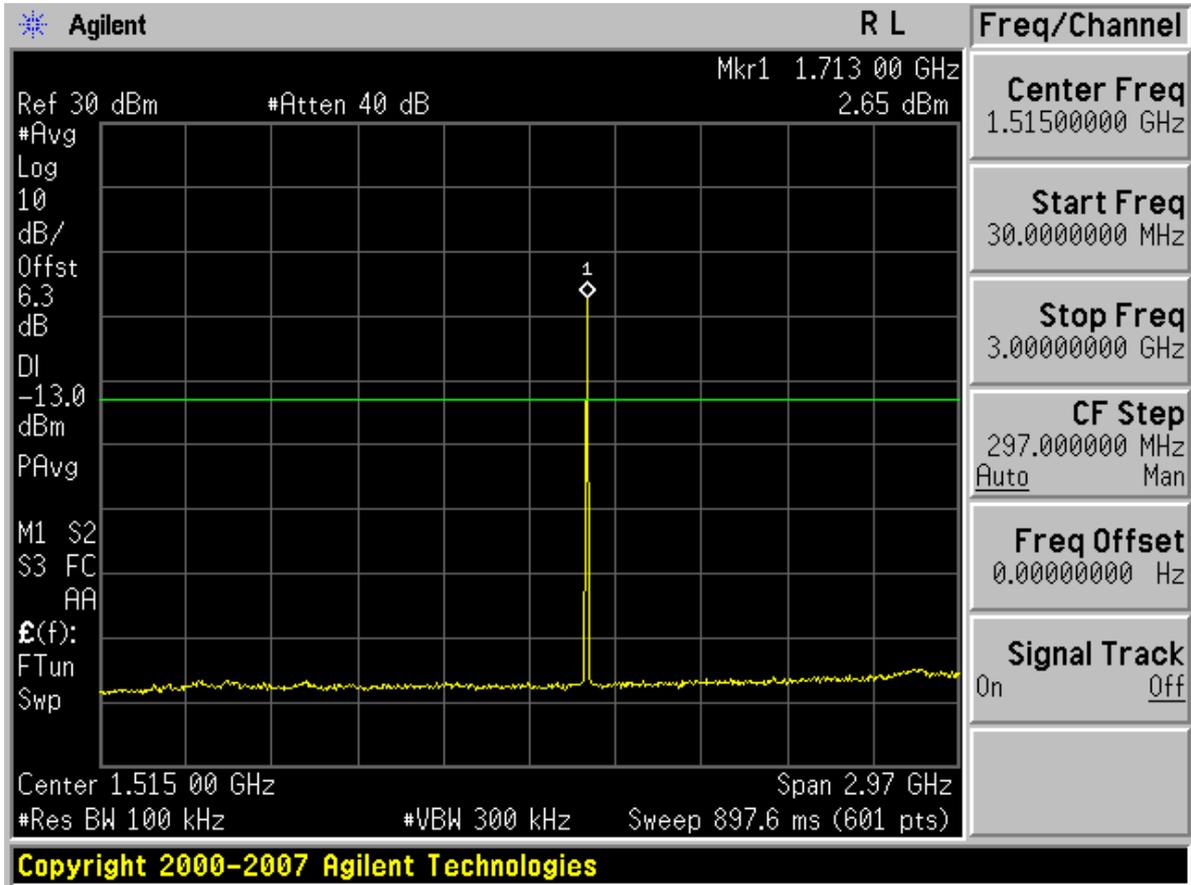
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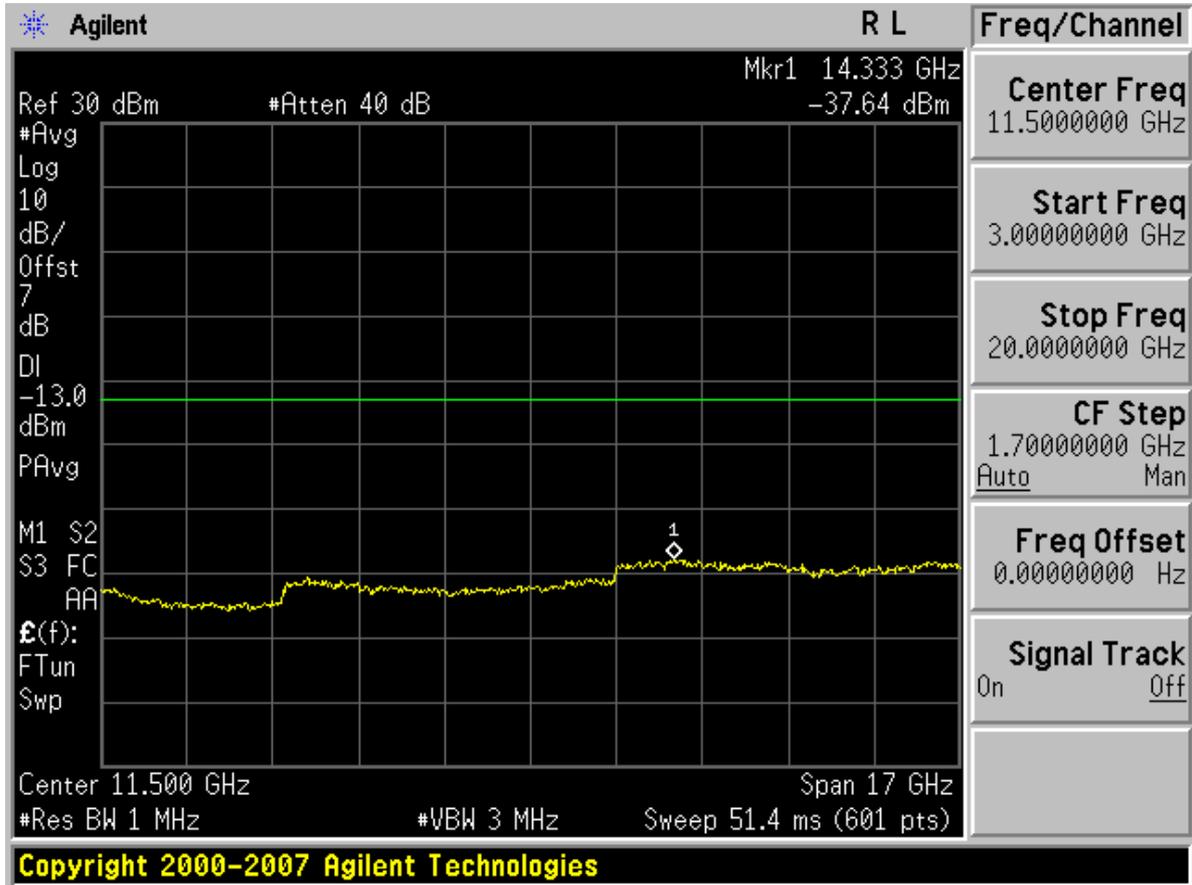
Modulation: HPSK

Channel 25



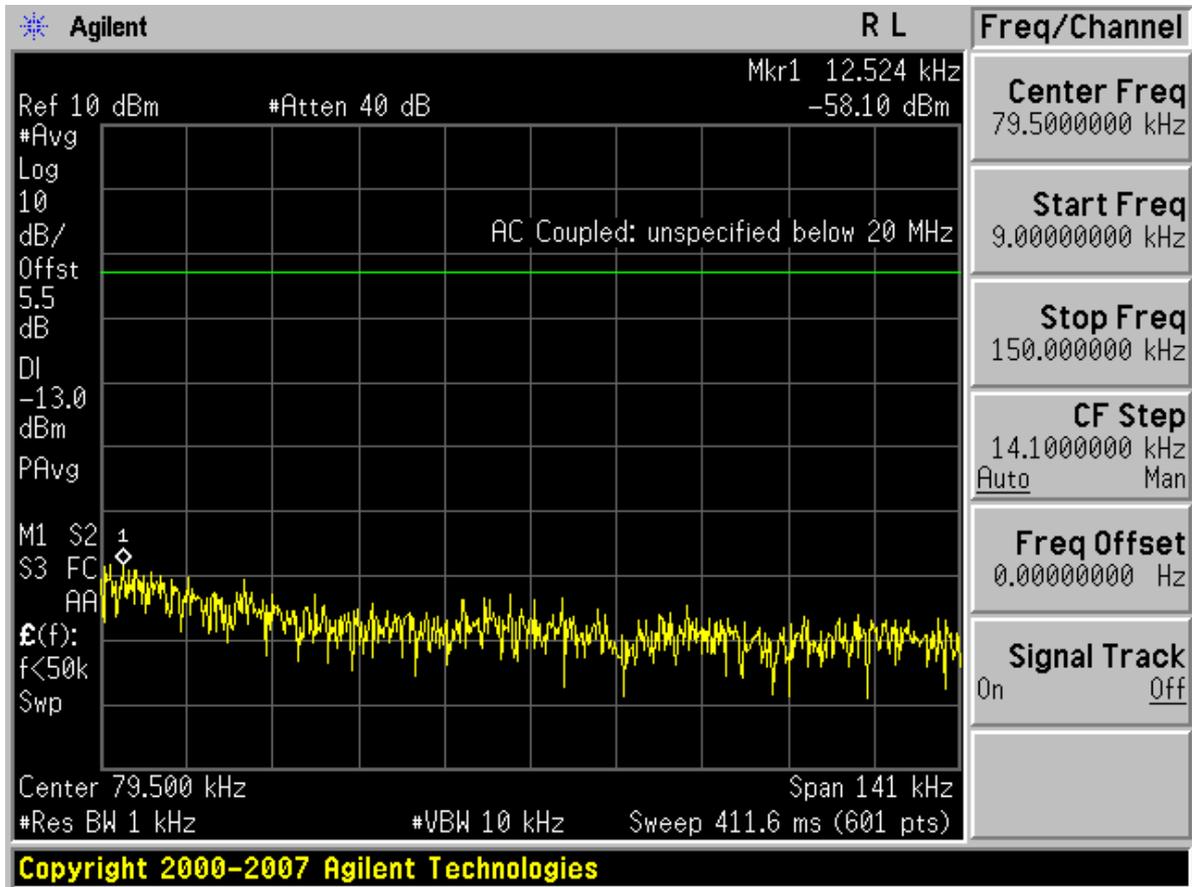


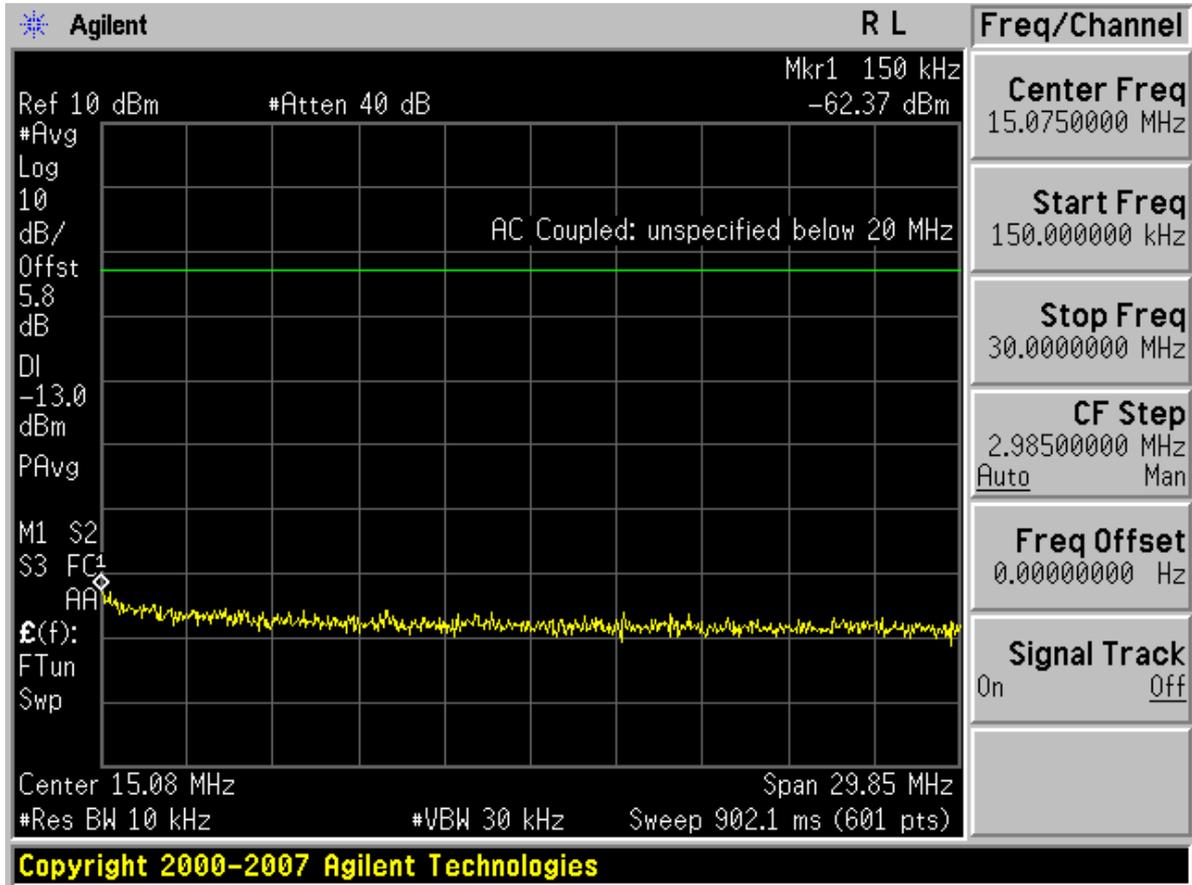


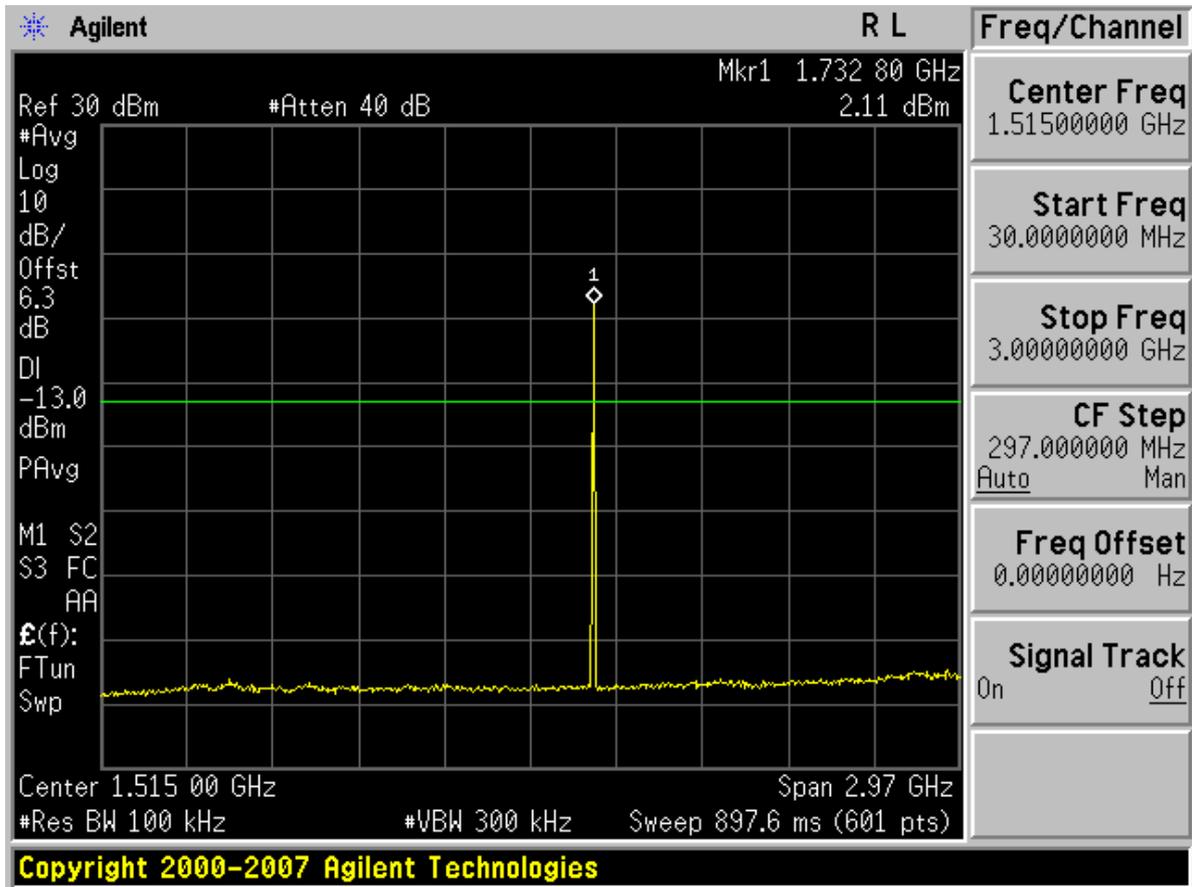


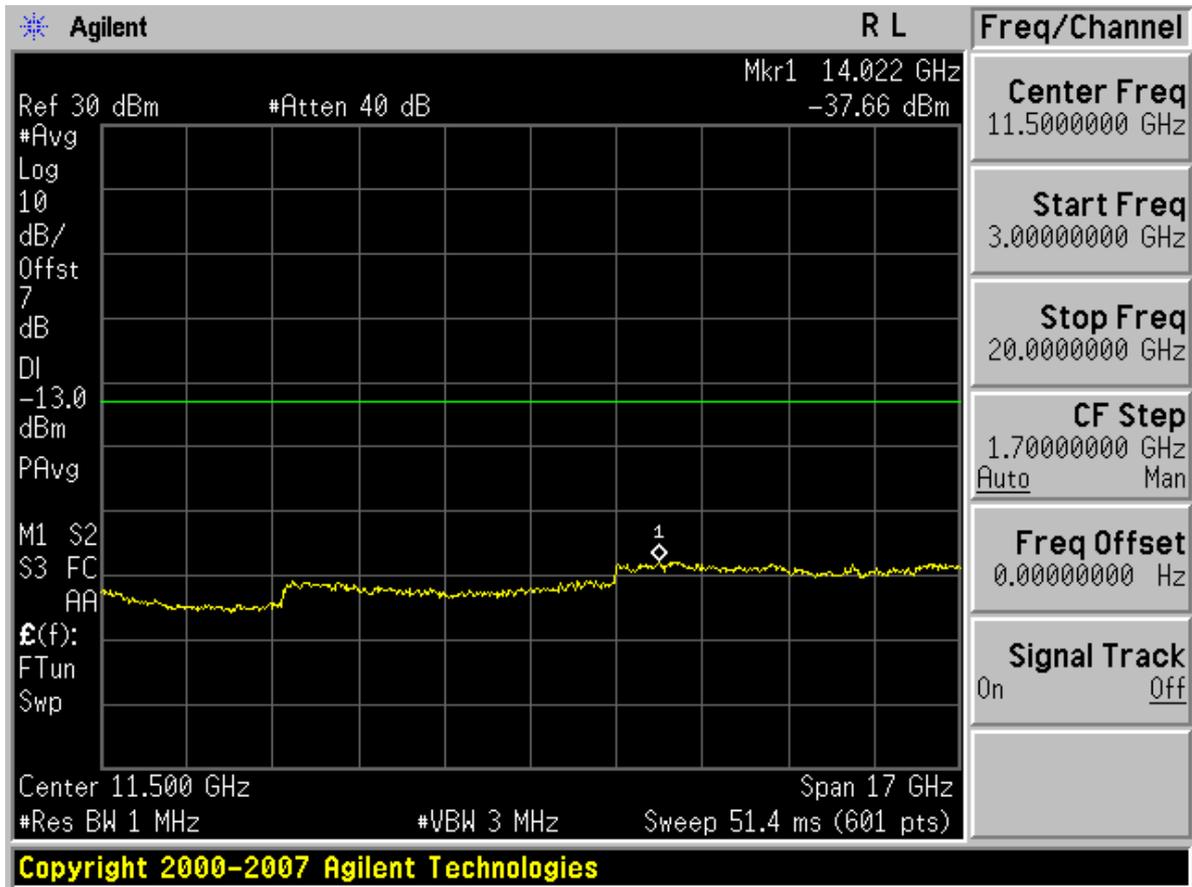


Channel 425



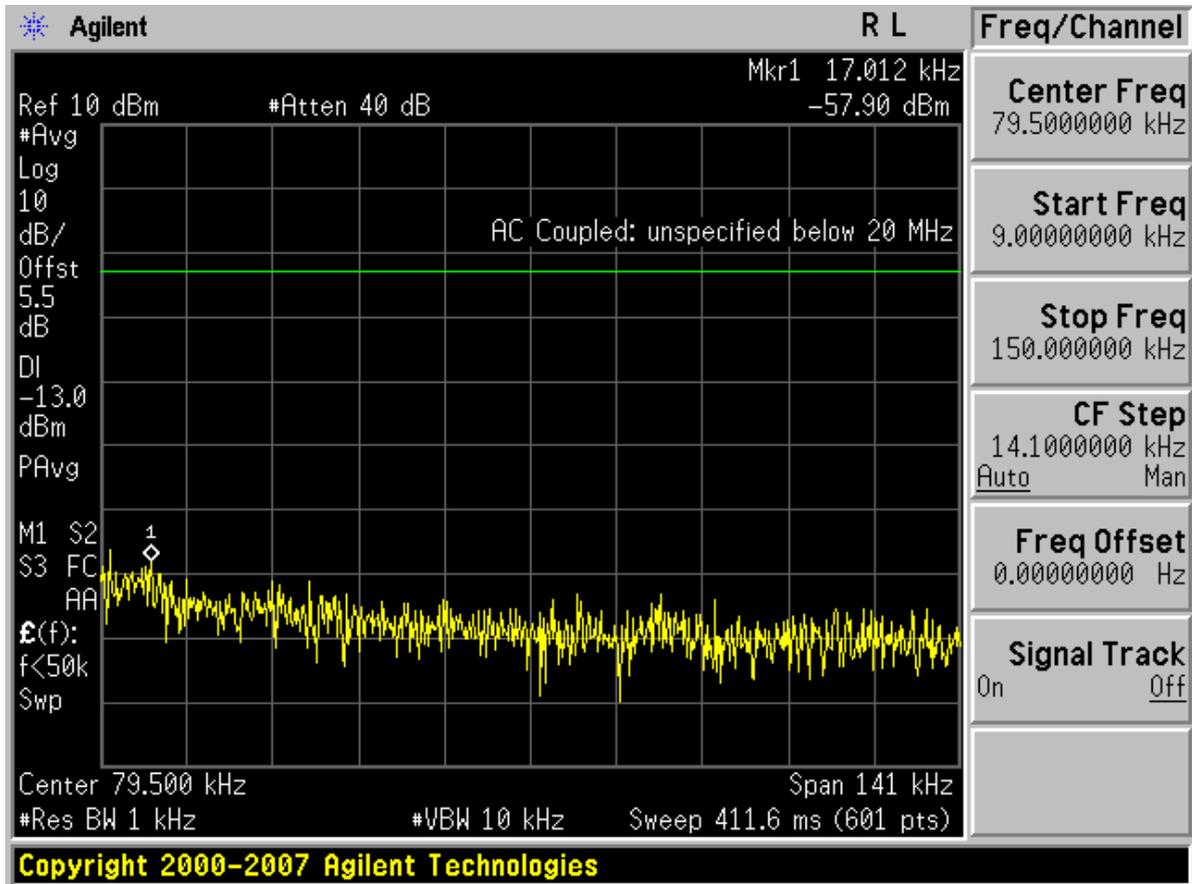


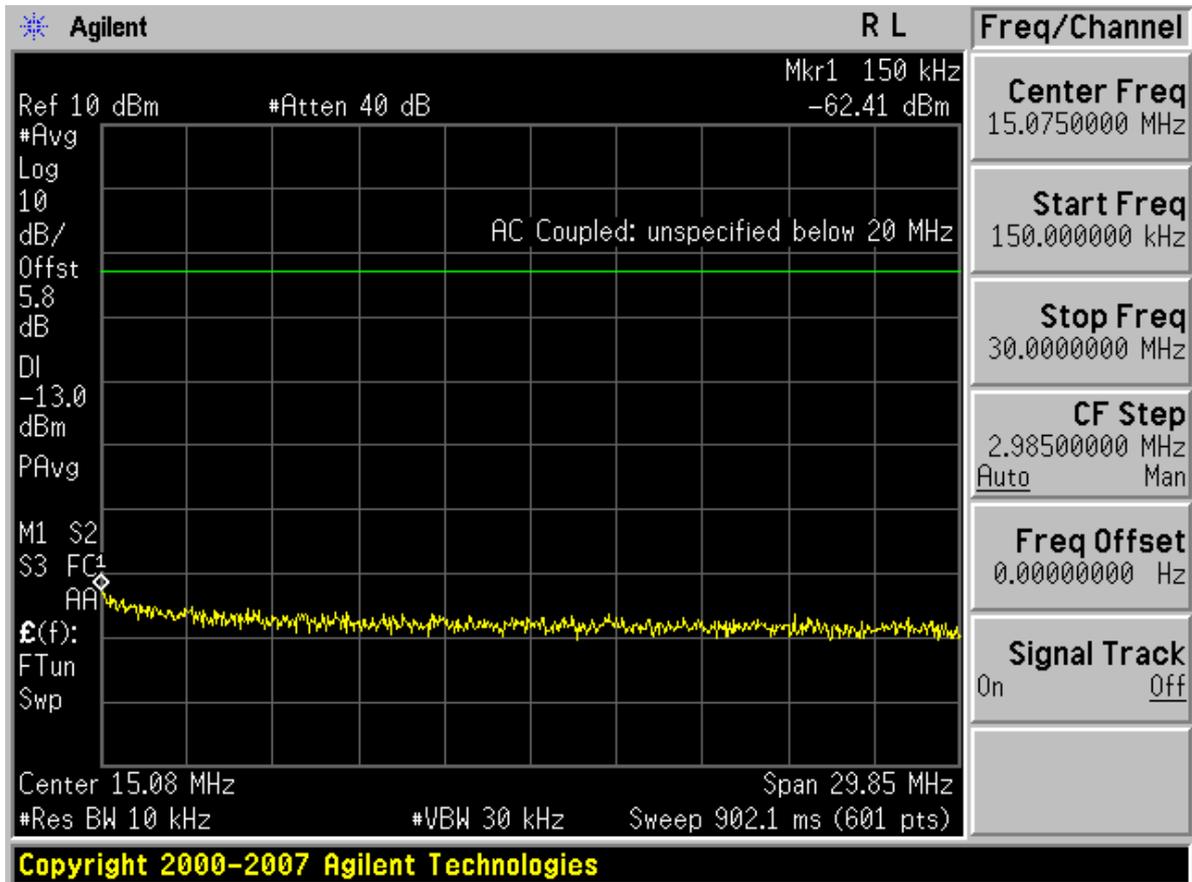


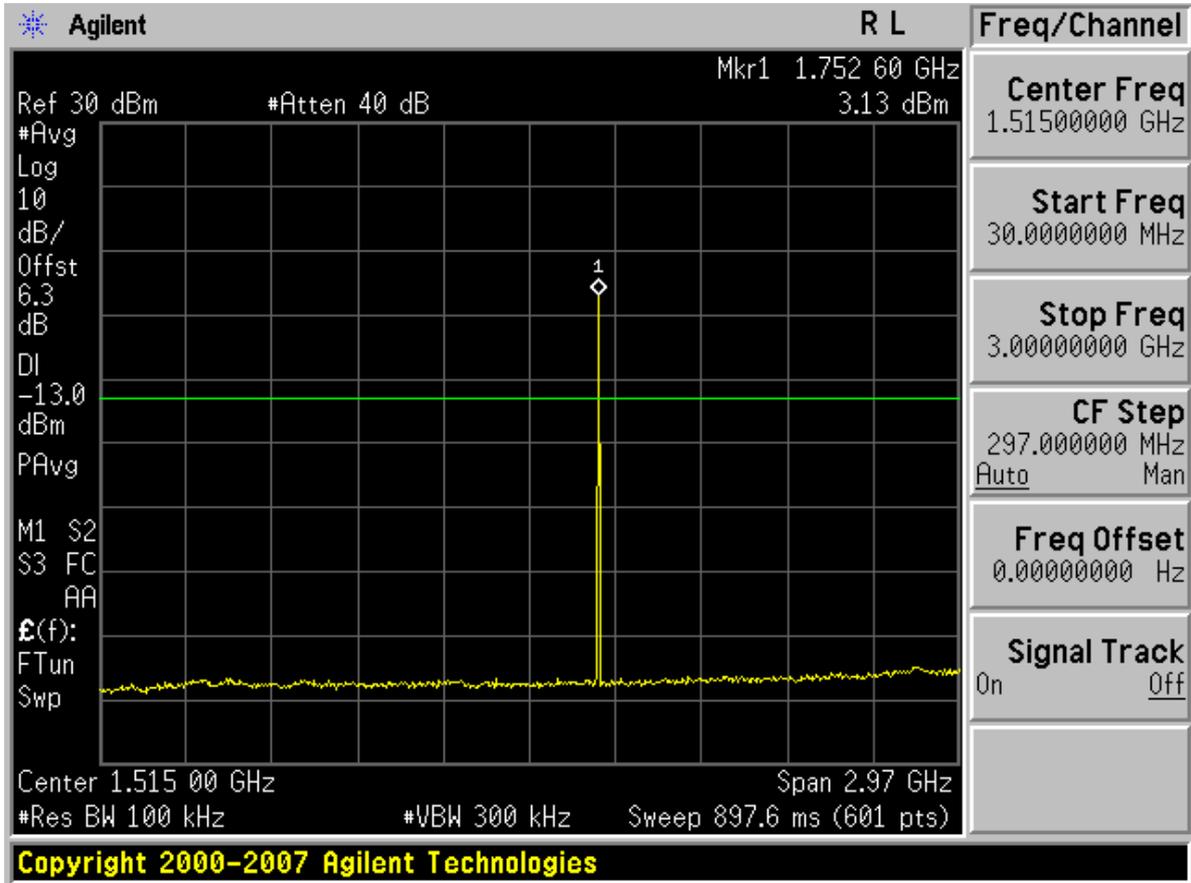


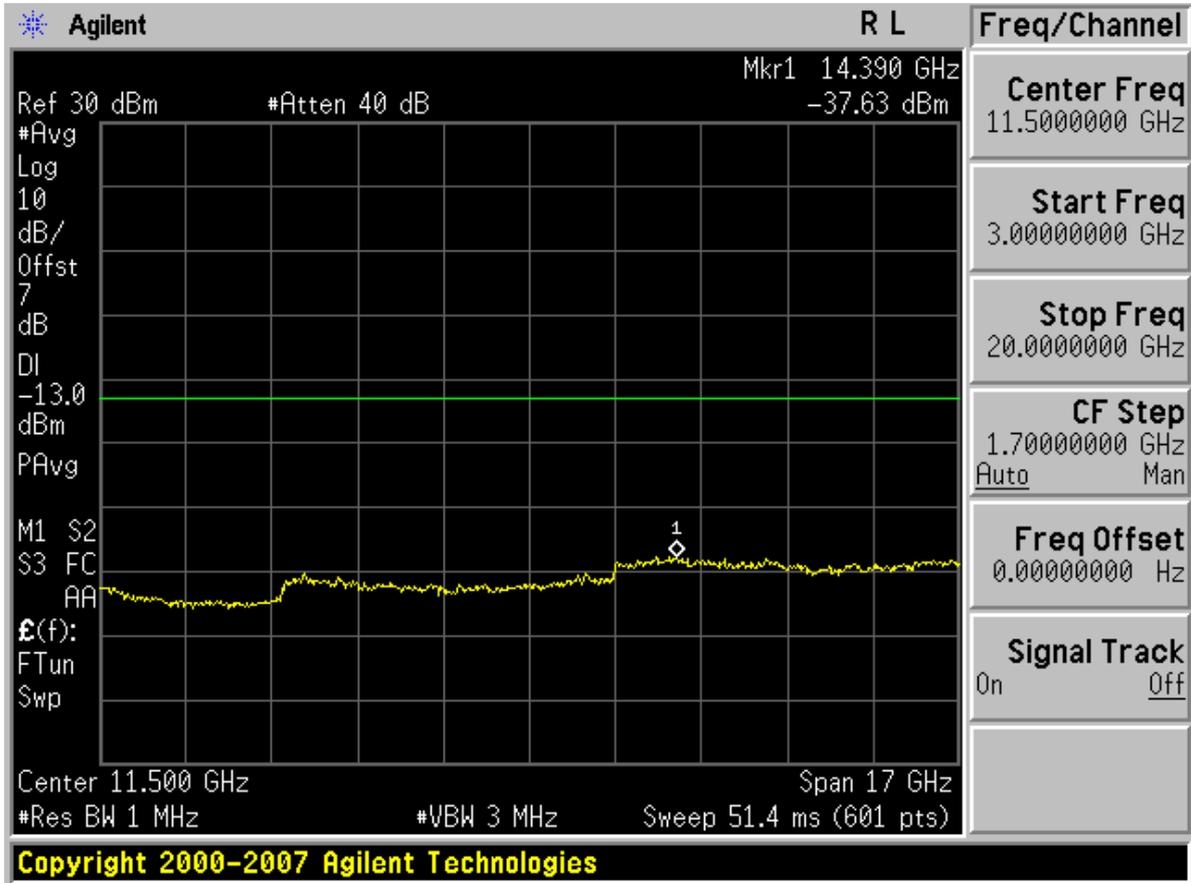


Channel 875





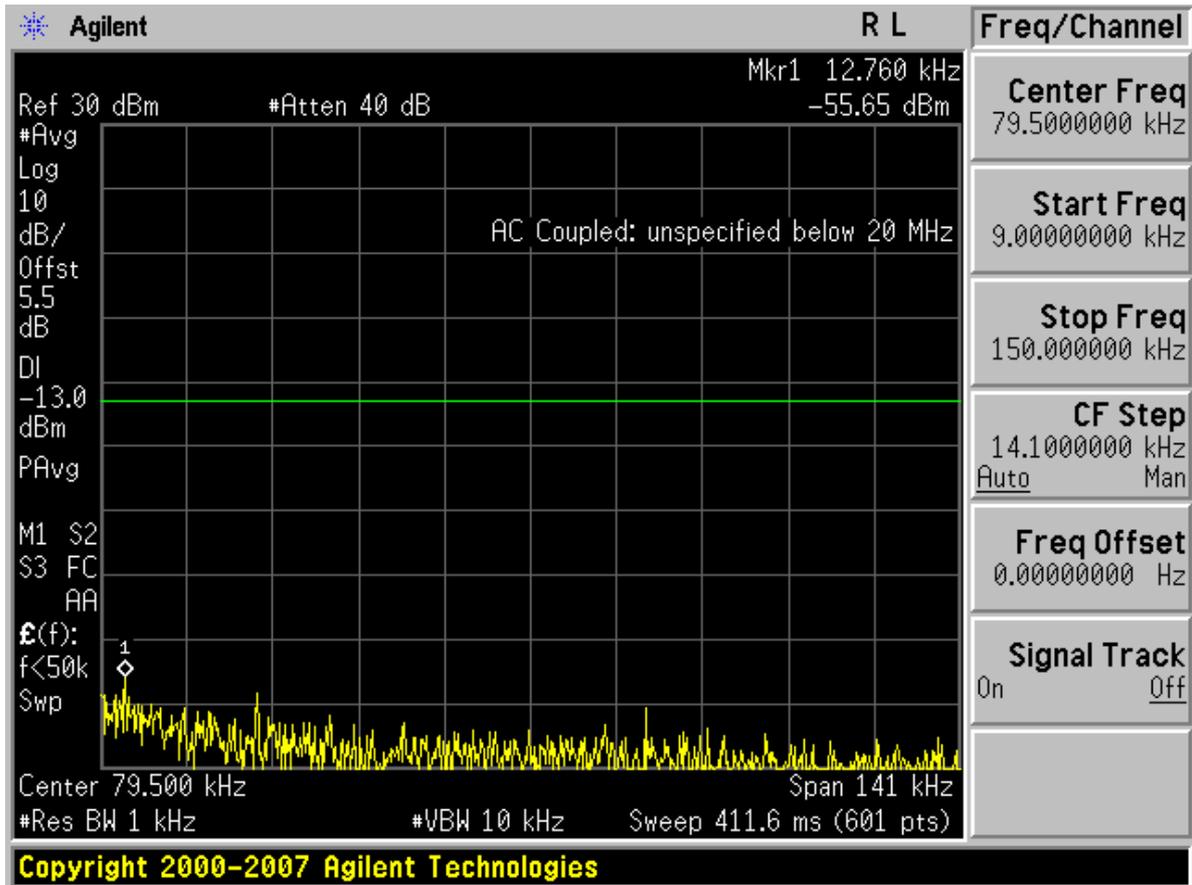


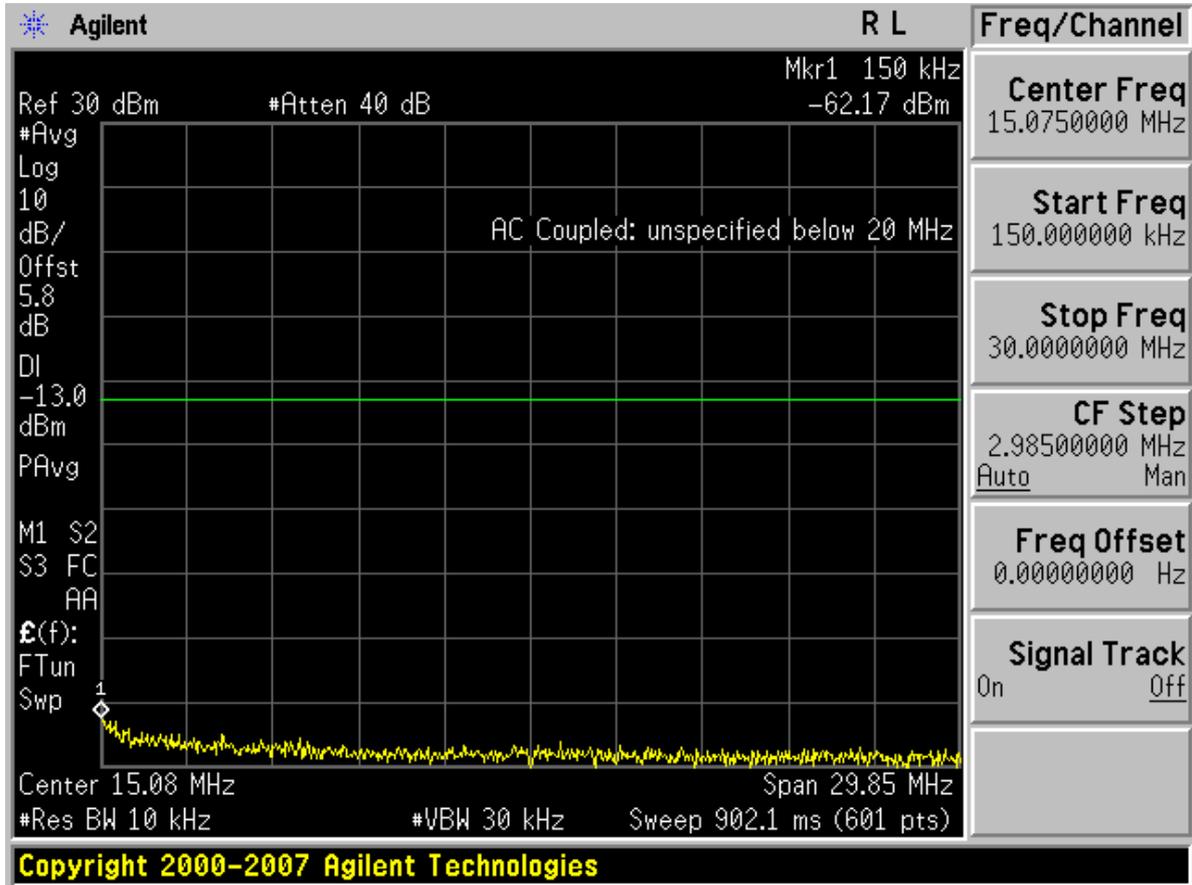


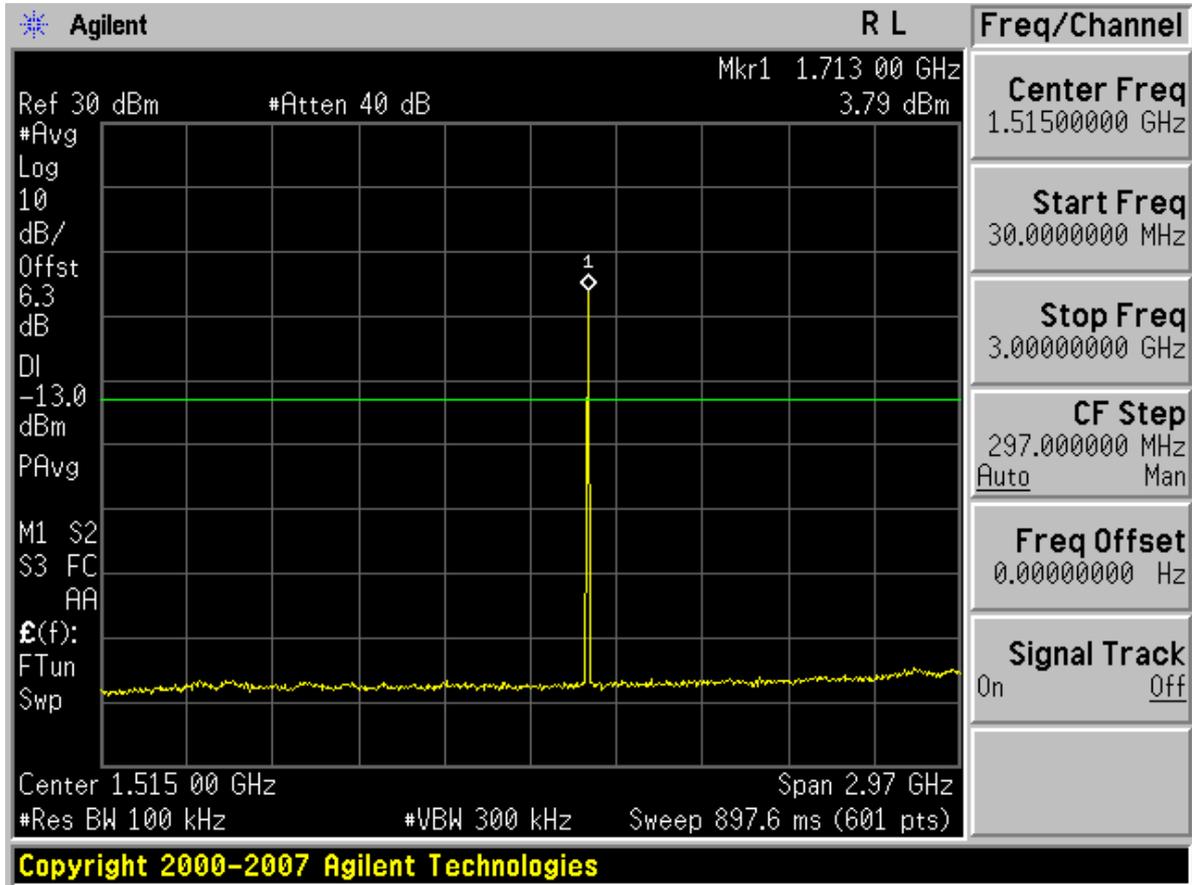


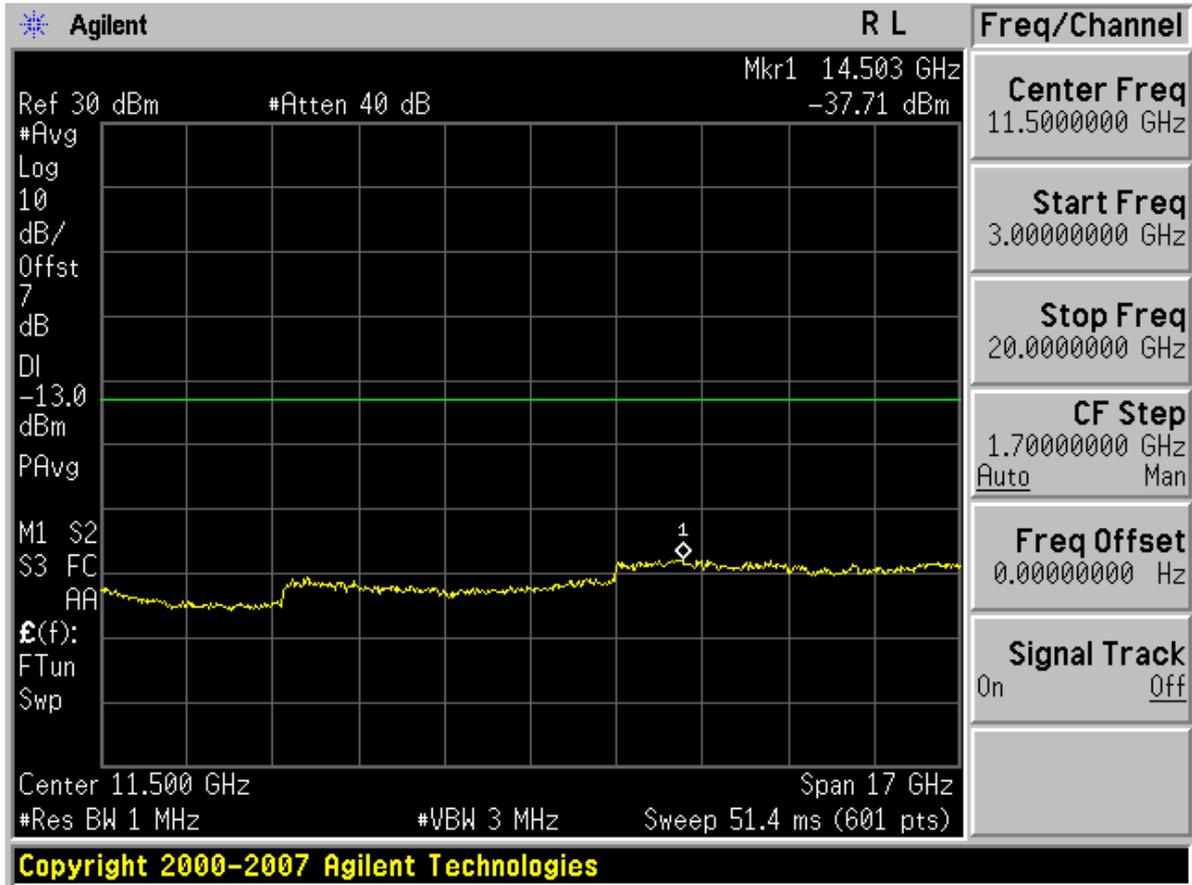
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Channel 25



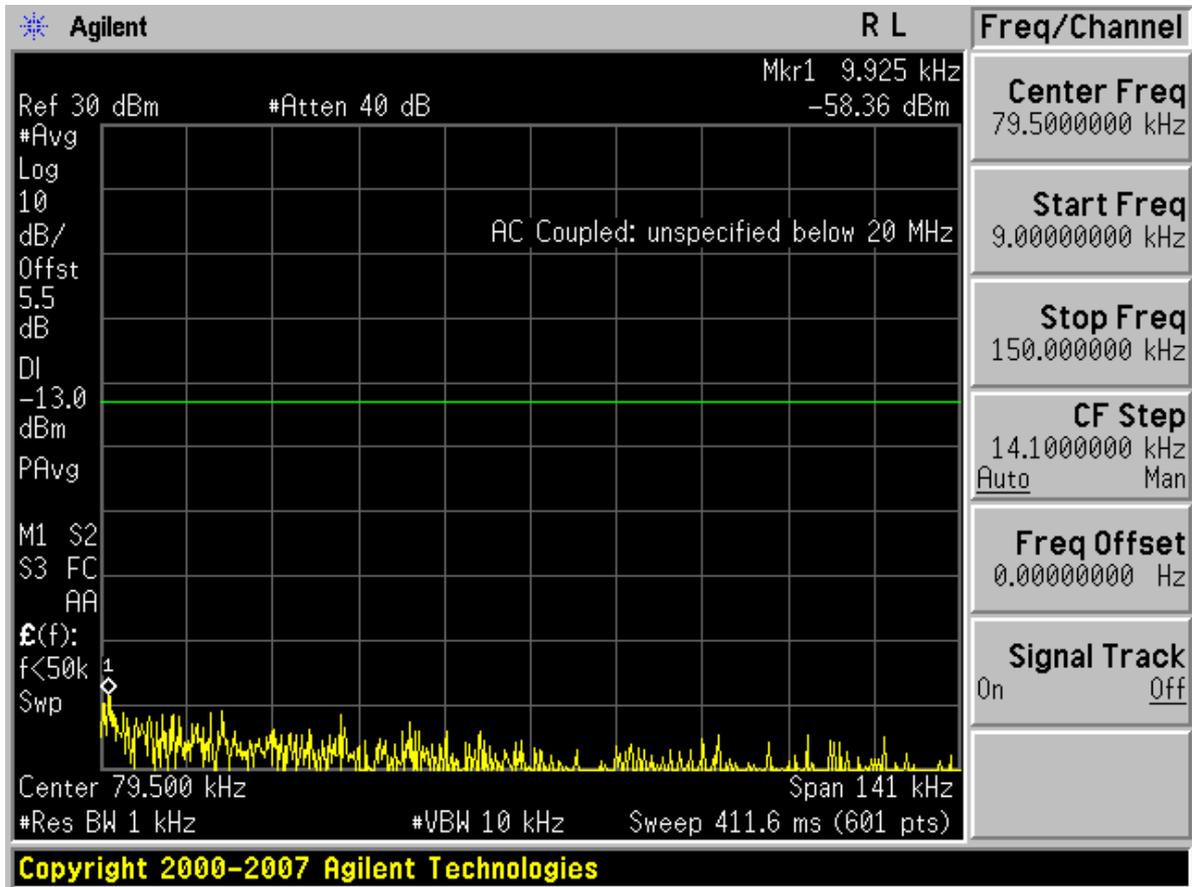


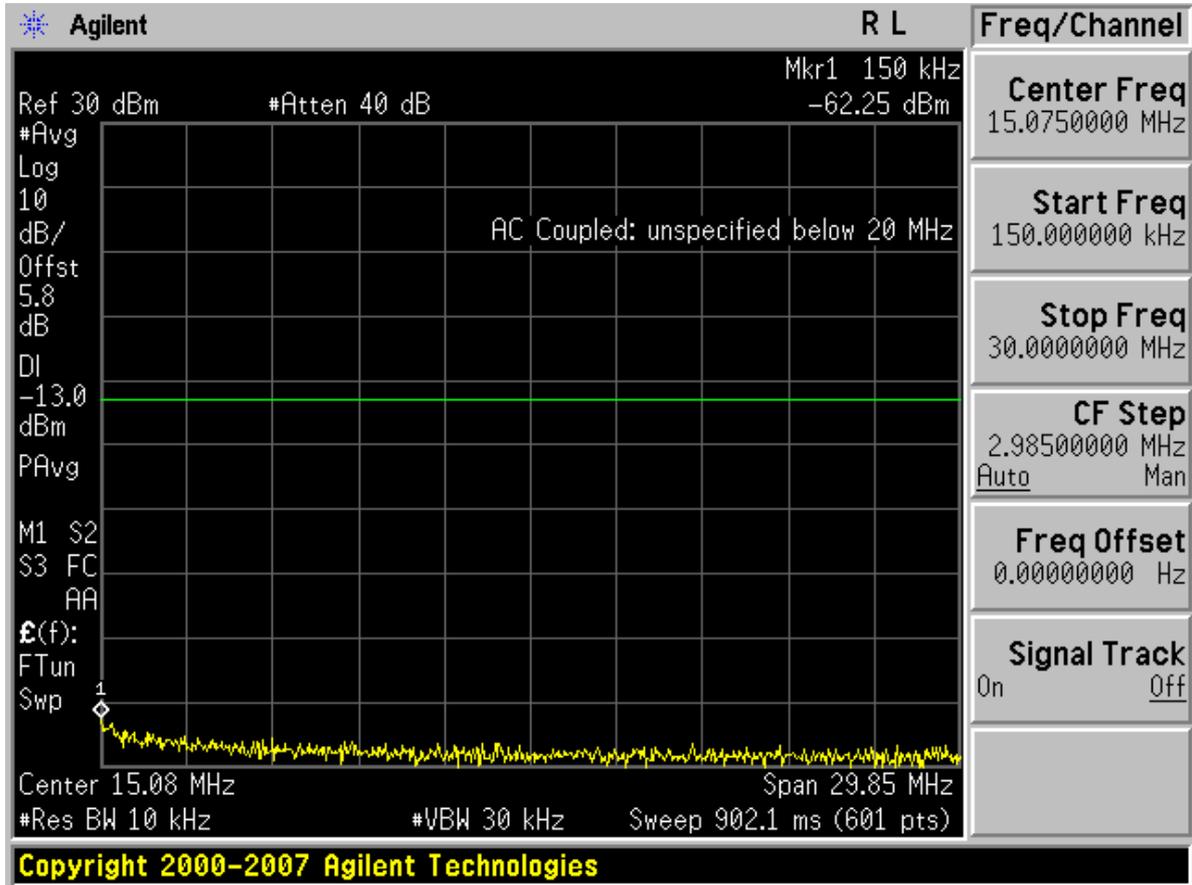


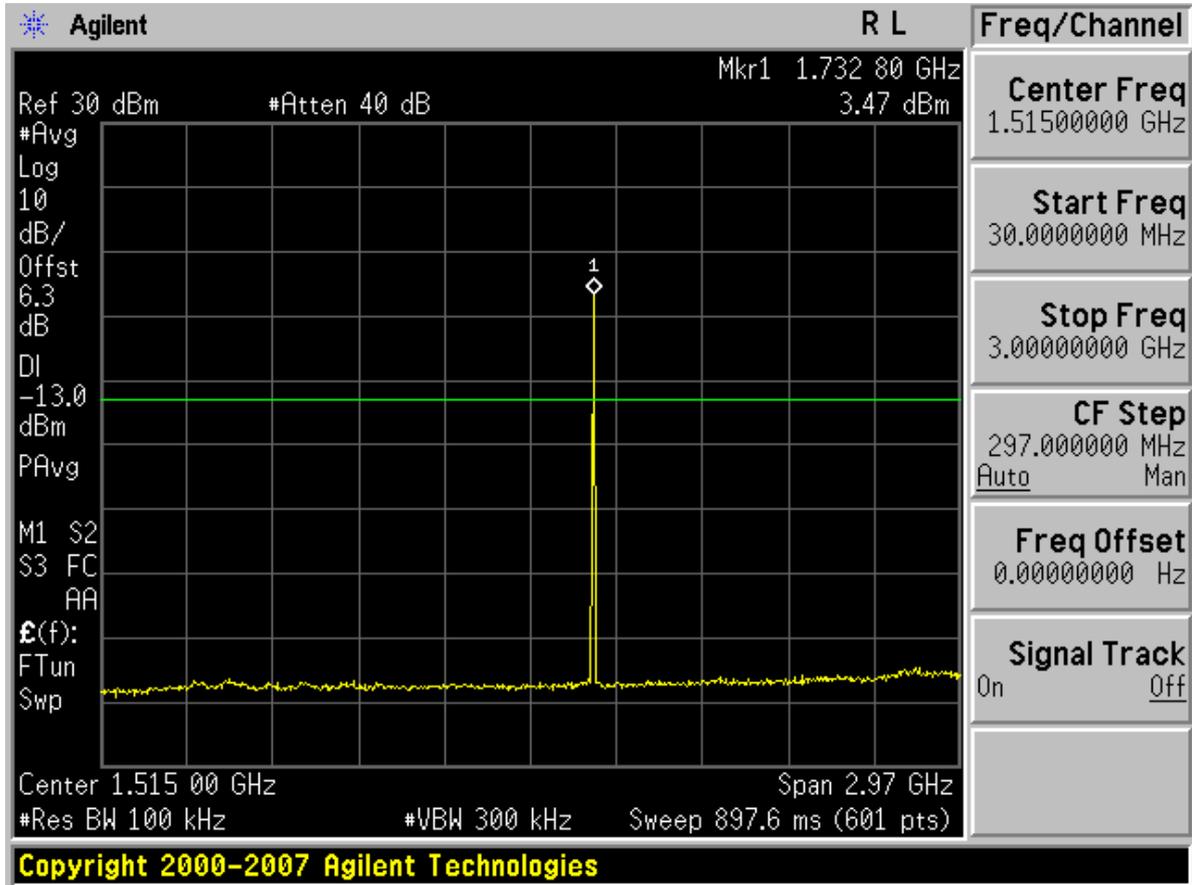


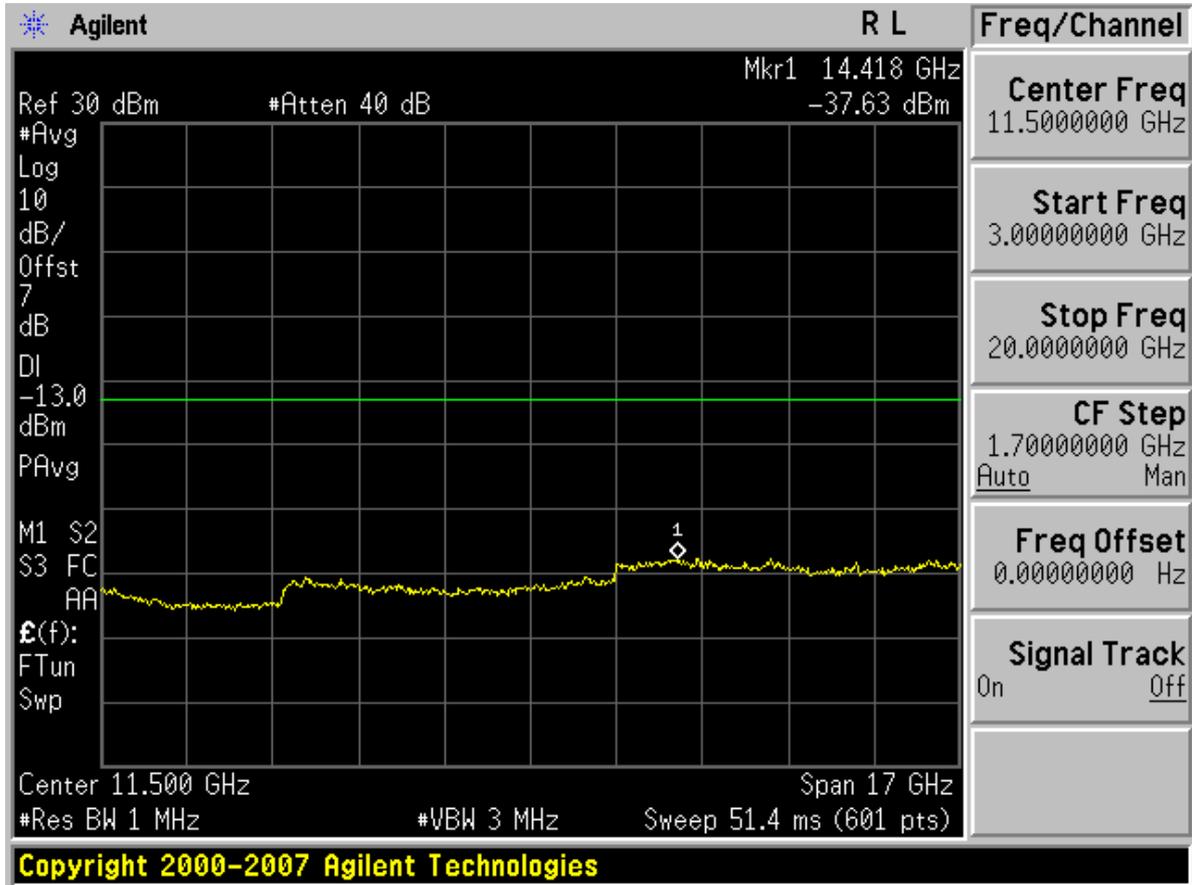


Channel 425



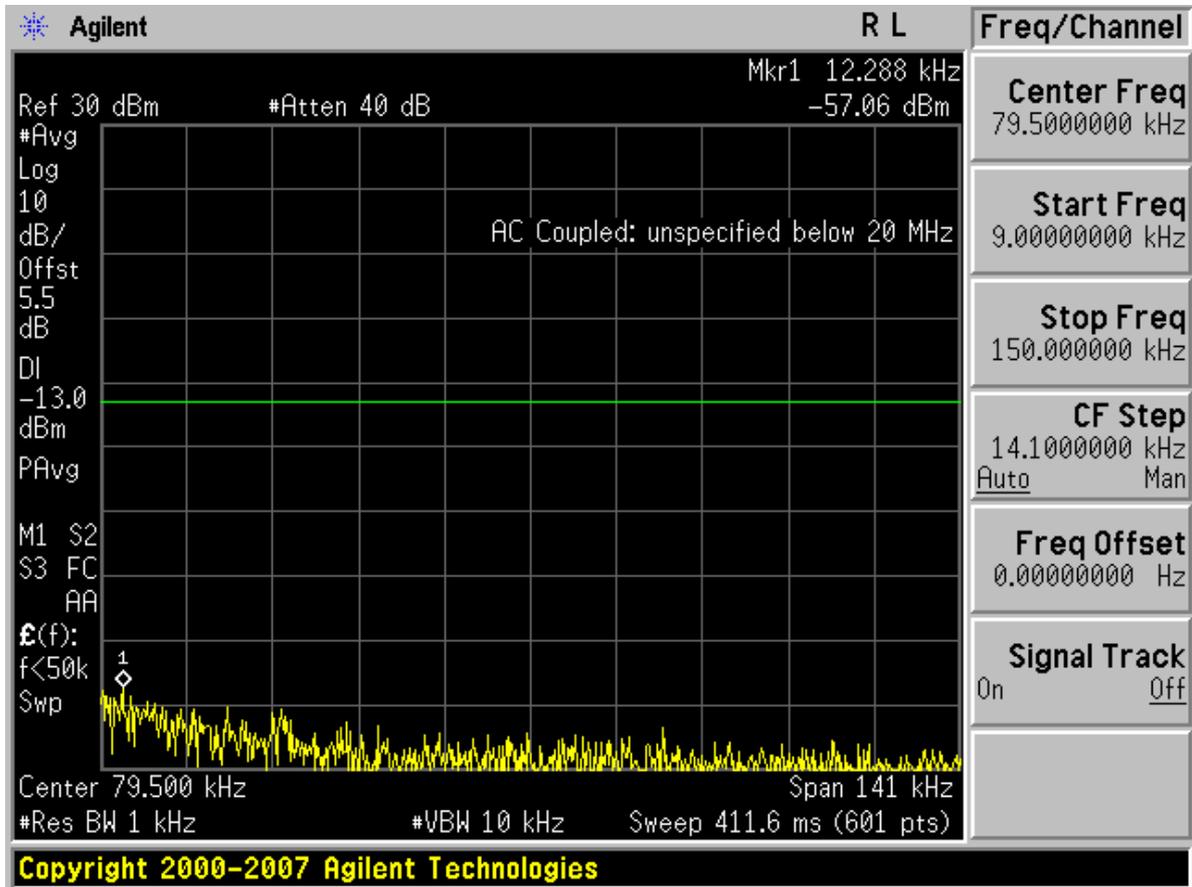


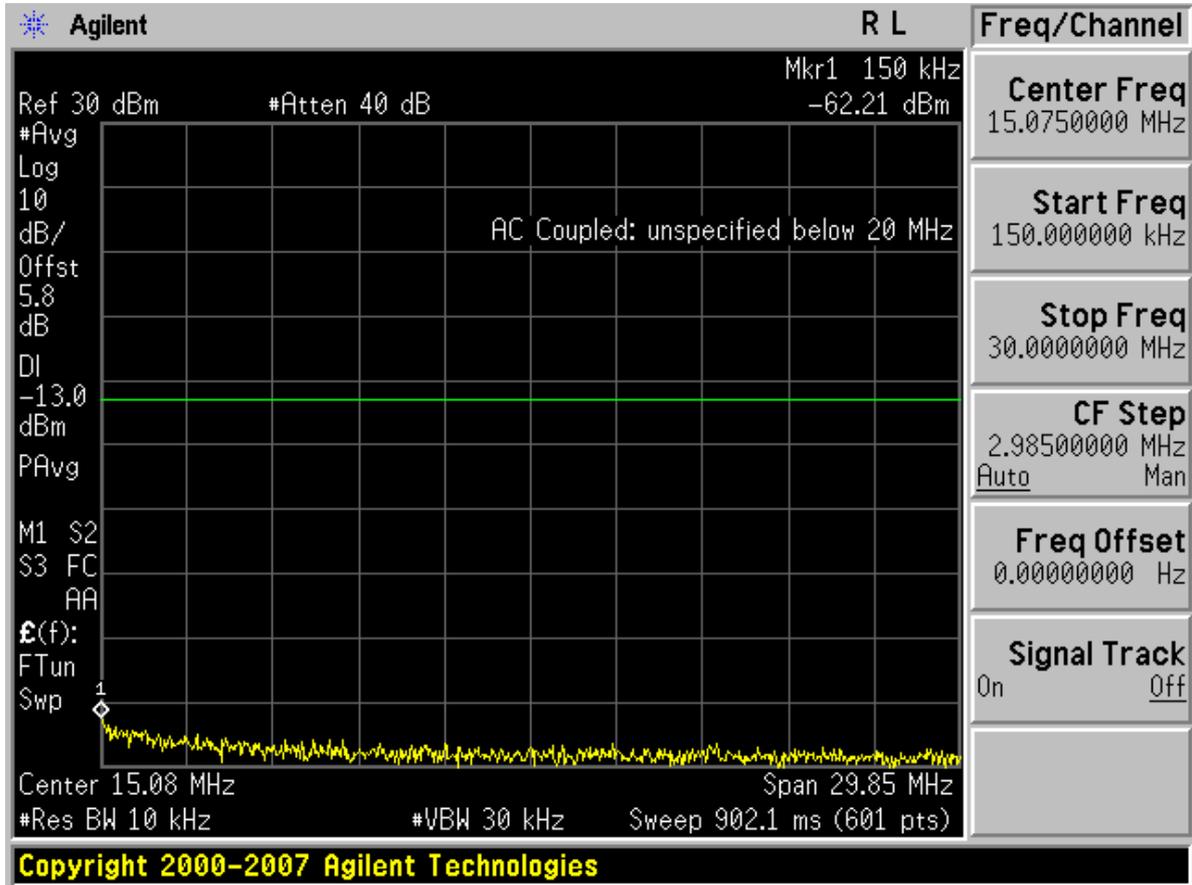


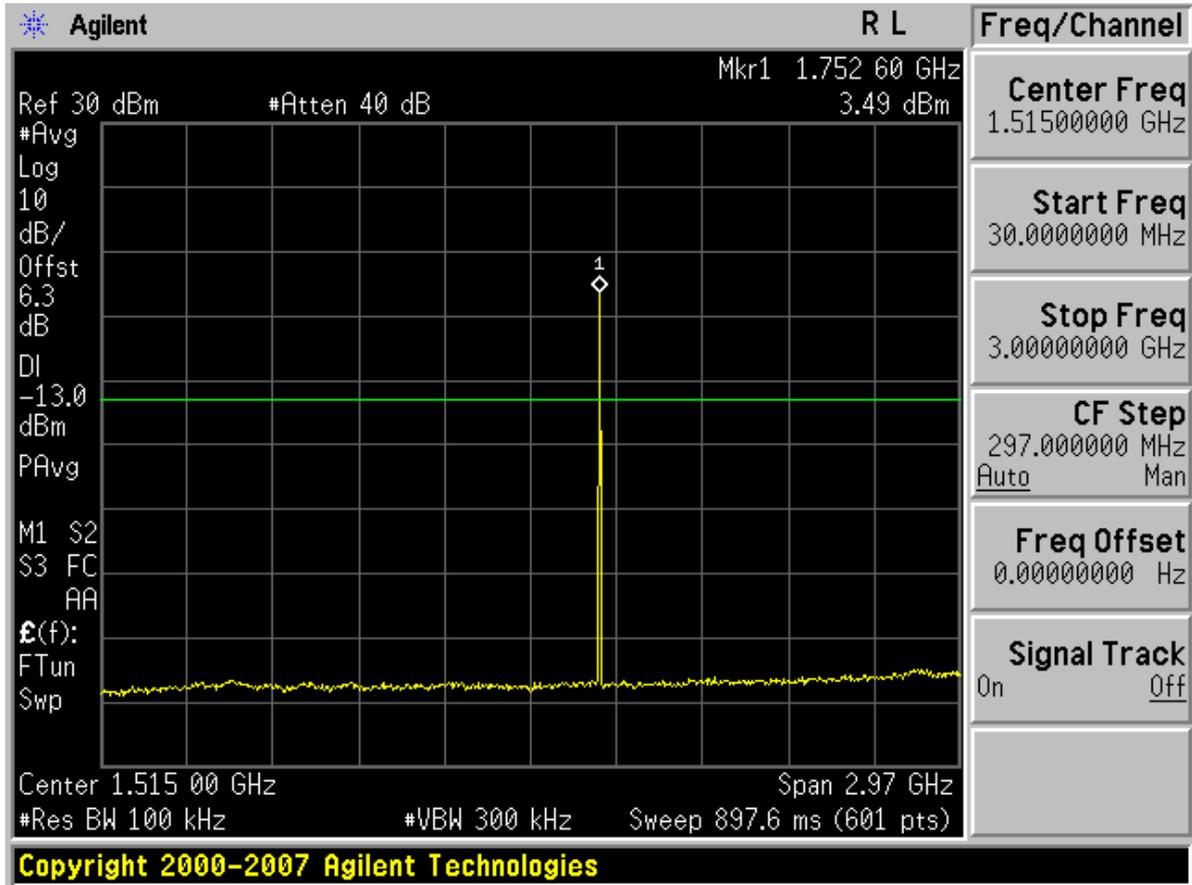


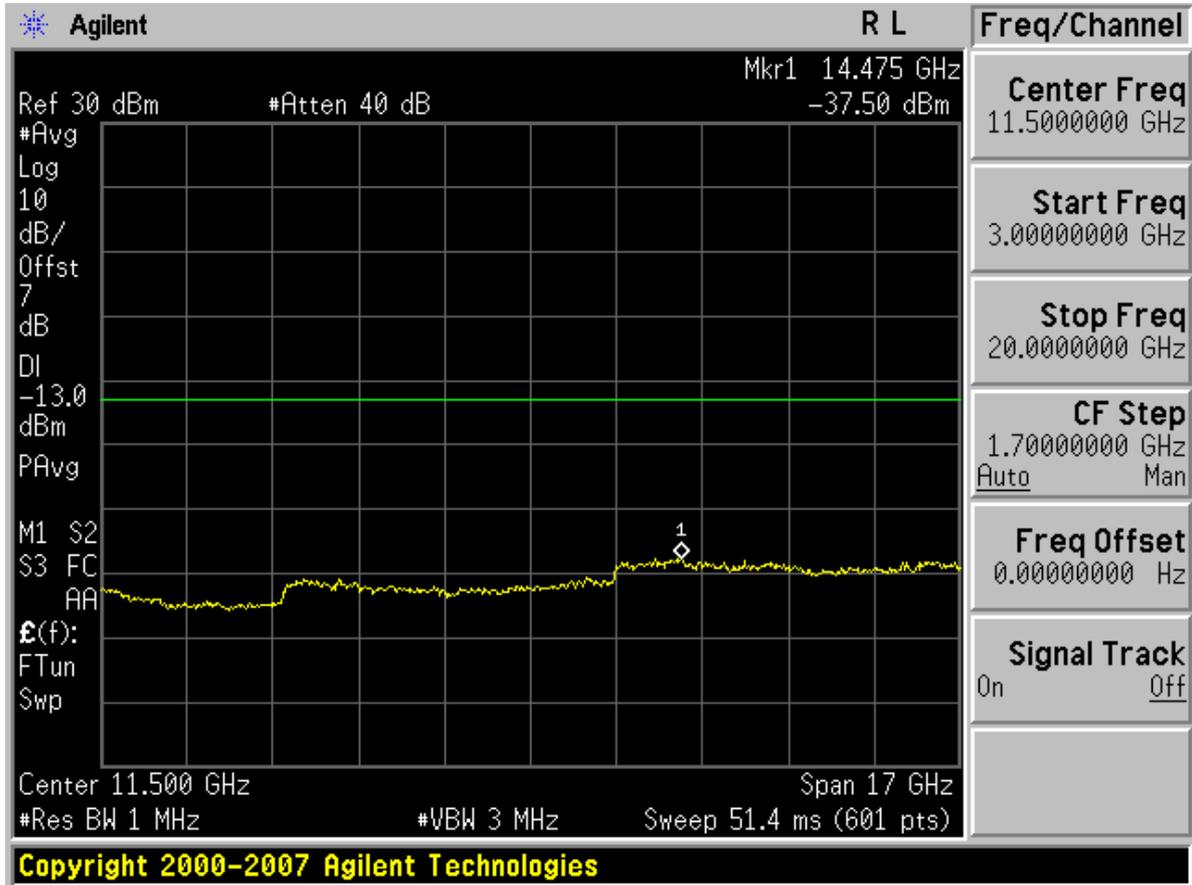


Channel 875





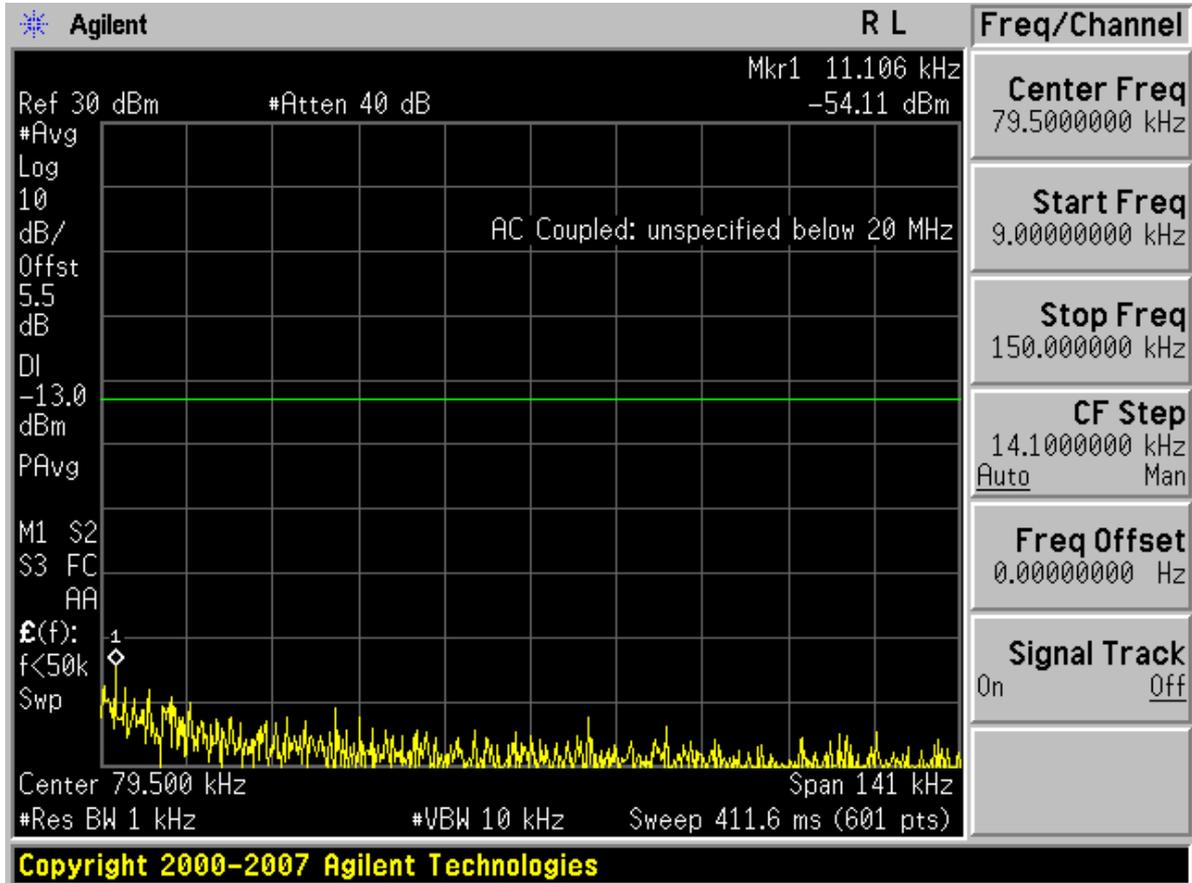


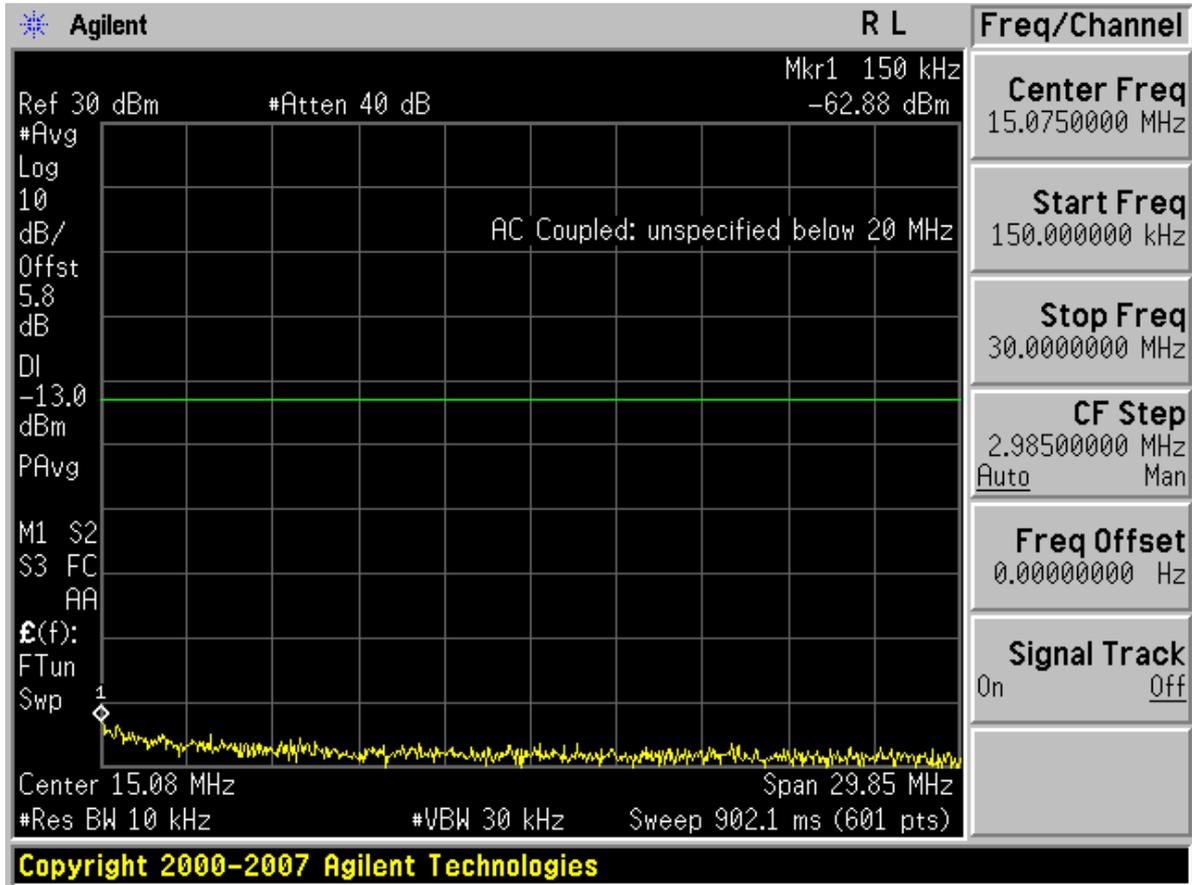


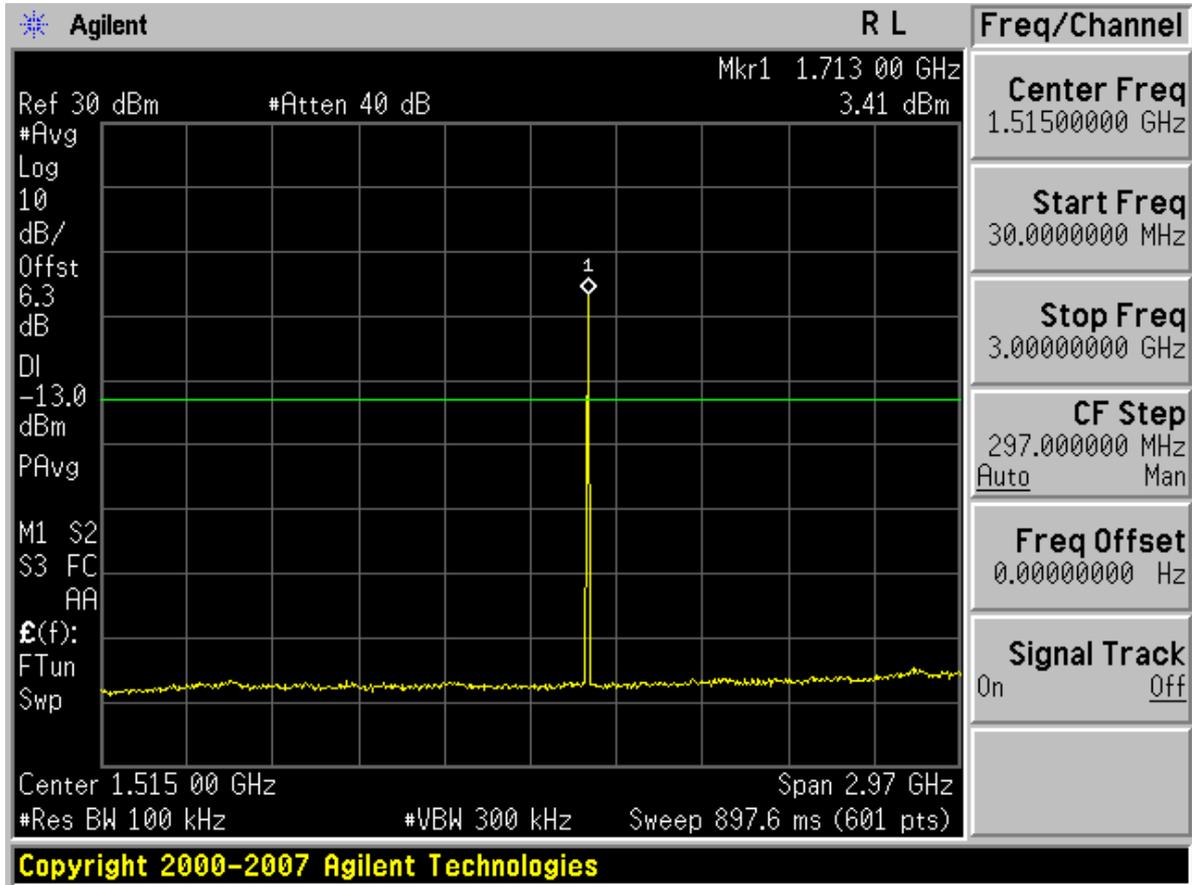


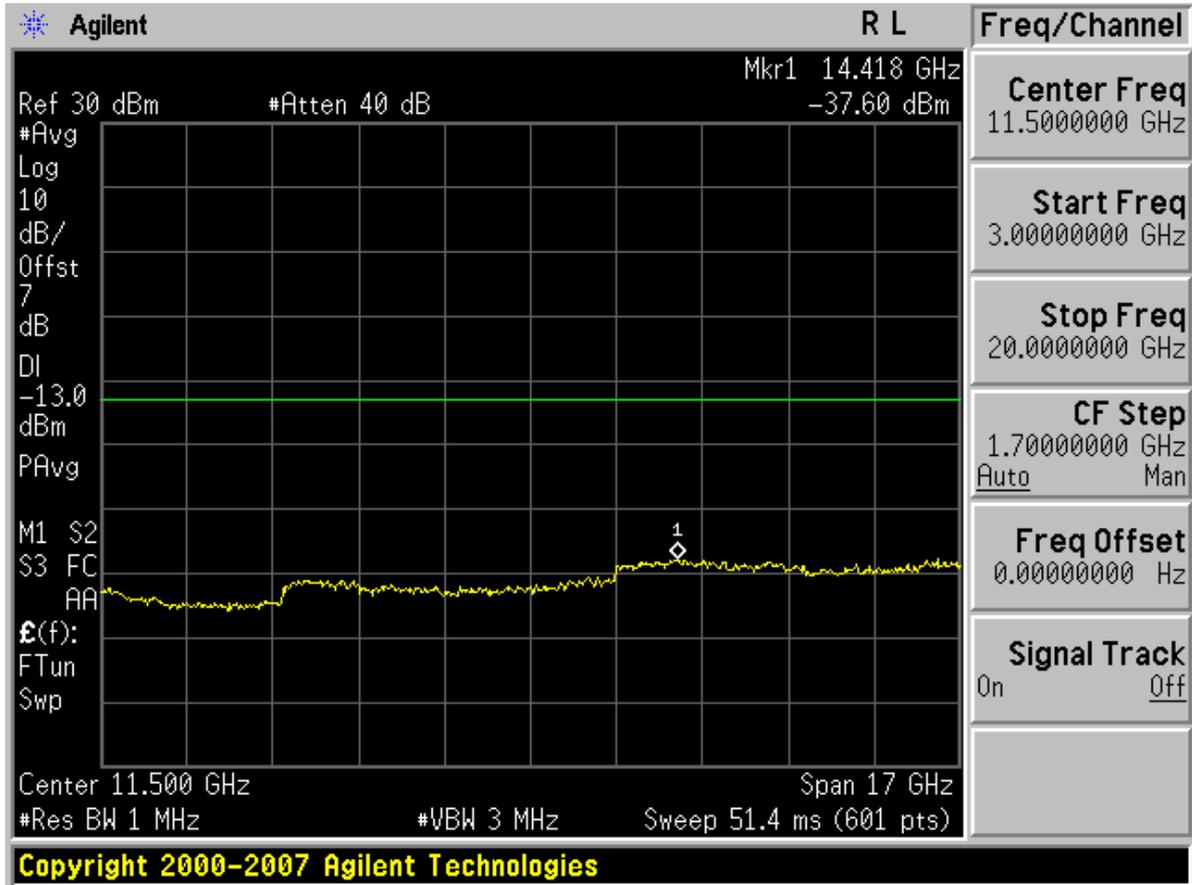
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Channel 25



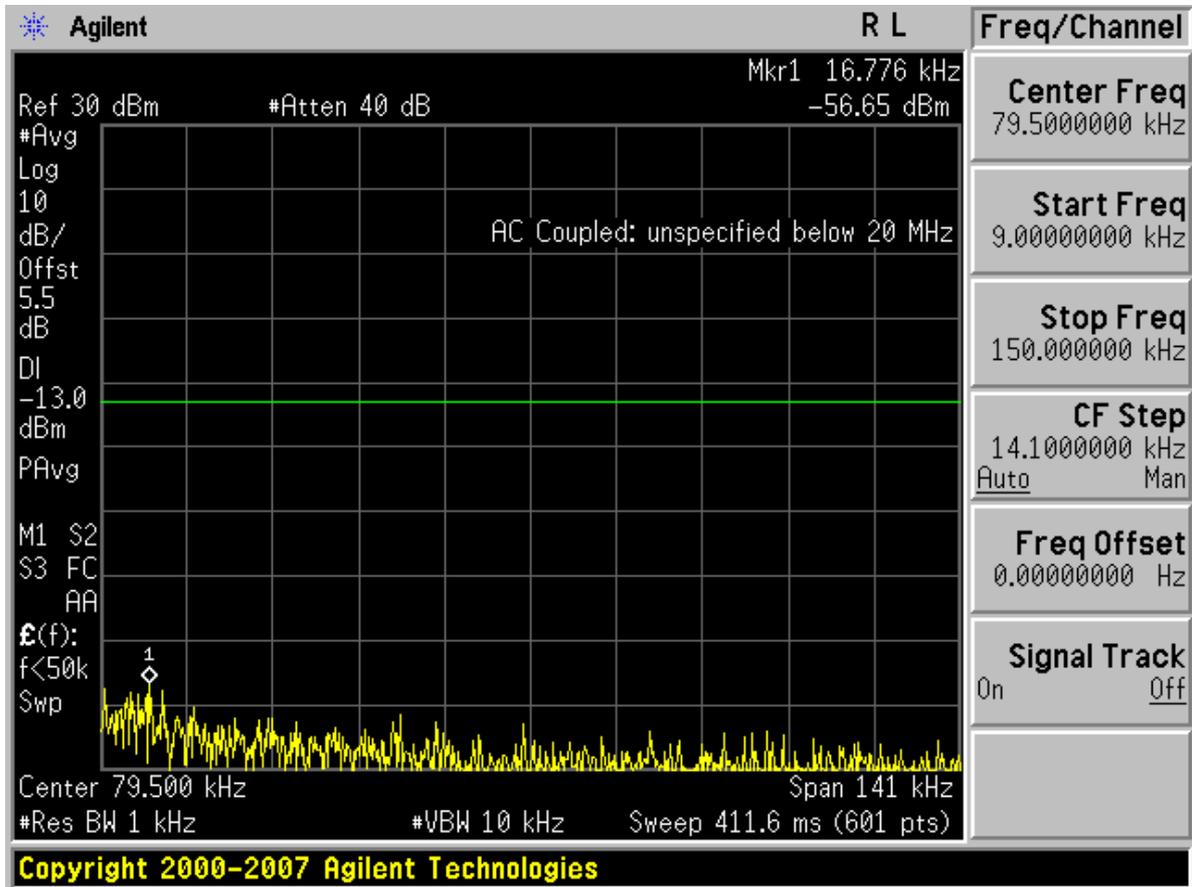


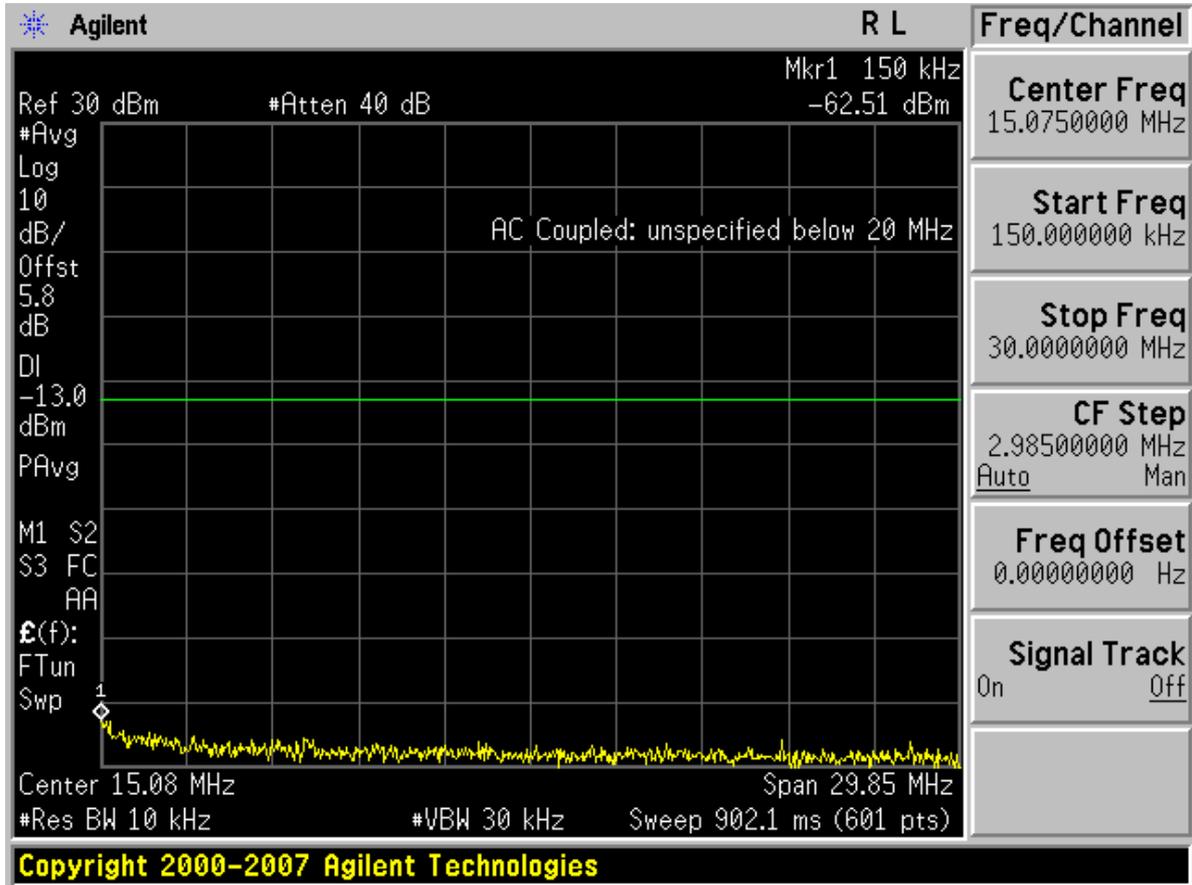


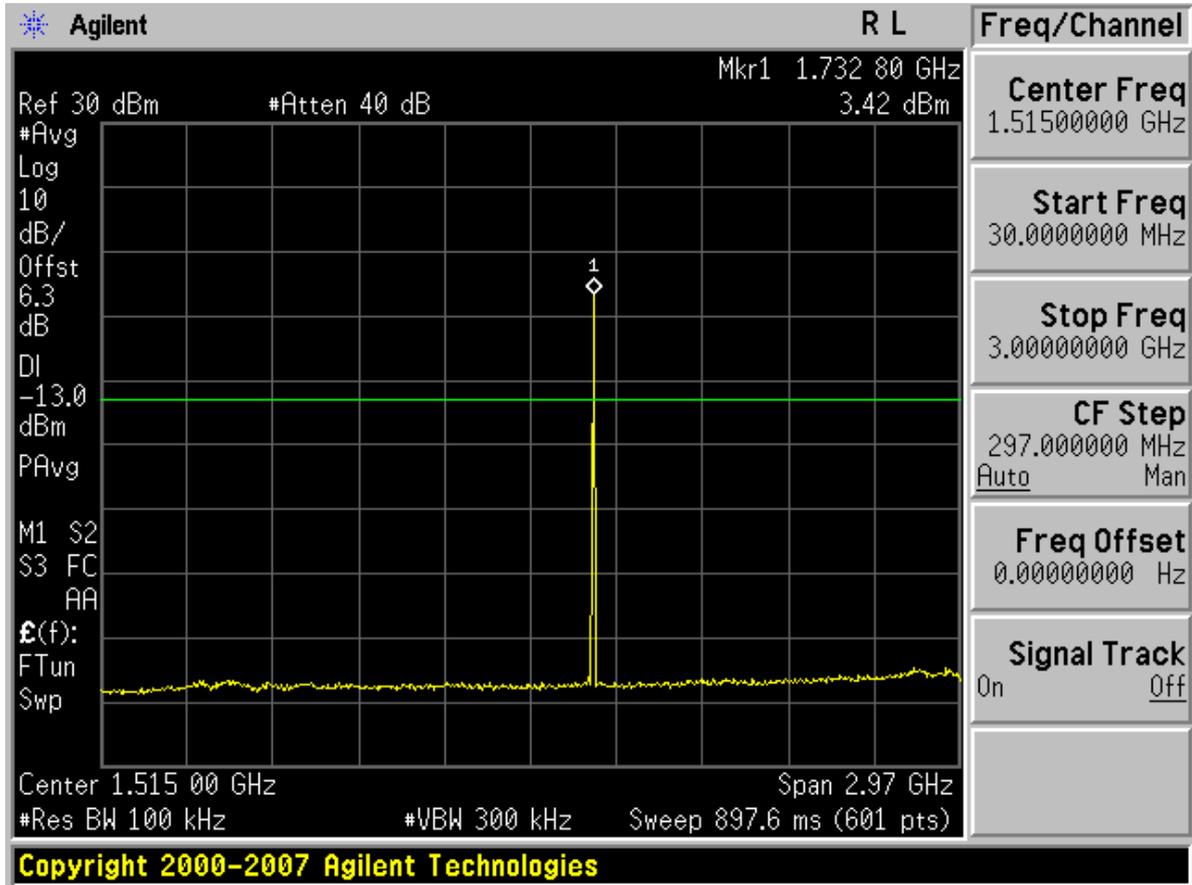


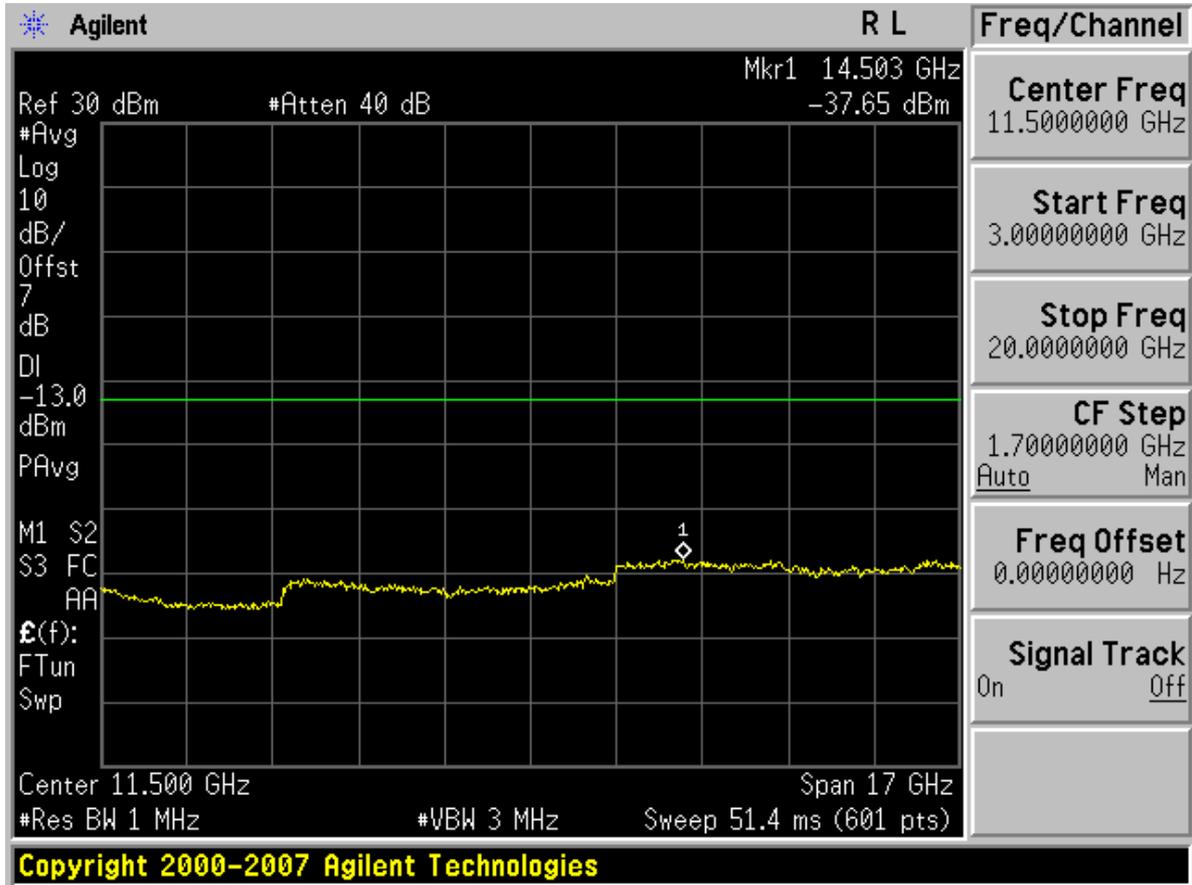


Channel 425











Channel 875

