

Appendix A

Effective Radiated Power of Transmitter

According to FCC Part 2.1046 & 22.913

Channel 1013

TM1:

Measurement/Instrument Screen									
Control	Maximum/Minimum Power						Call Parm		
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <p>22.54</p> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <p>-63.28</p> <p>dBm/1.23 MHz</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> Under Range Single </div>						Cell 1 Power		
Maximum Power Setup ▾							-55.00		
Minimum Power Setup ▾							dBm/1.23 MHz		
							Cell Band		
							US Cellular		
							Channel		
							1013		
							Protocol Rev		
							6 (IS-2000-0)		
							Radio Config		
							(Fud1, Rus1)		
							S02 (Loopback)		
							FCH Service Option Setup ▾		
				Active Cell Connected			Sys Type: IS-2000		
							Logging: No Conn.		
1 of 2				IntRef	Offset				1 of 4

Channel 283

TM1:

Measurement/Instrument Screen															
Control	Maximum/Minimum Power						Call Parm								
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <p>23.11</p> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <p>-62.46</p> <p>dBm/1.23 MHz</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> Under Range Single </div>						Cell 1 Power	-55.00		dBm/1.23 MHz		Cell Band	US Cellular		
Maximum Power Setup ▾							Channel	283		Protocol Rev		6 (IS-2000-0)		Radio Config	
Minimum Power Setup ▾							FCH Service Option Setup ▾		(Fud1, Rvs1)		S02 (Loopback)		Active Cell Connected		Sys Type: IS-2000
1 of 2	IntRef		Offset		Logging: No Conn.		1 of 4								

Channel 777

TM1:

Measurement/Instrument Screen															
Control	Maximum/Minimum Power						Call Parm								
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <p>22.63</p> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <p>-62.11</p> <p>dBm/1.23 MHz</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> Under Range Single </div>						Cell 1 Power	-55.00		dBm/1.23 MHz		Cell Band	US Cellular		
Maximum Power Setup ▾							Channel	777		Protocol Rev		6 (IS-2000-0)		Radio Config	
Minimum Power Setup ▾							FCH Service Option Setup ▾		(Fud1, Rus1)		S02 (Loopback)		Active Cell Connected		Sys Type: IS-2000
1 of 2	IntRef		Offset		Logging: No Conn.		1 of 4								

TM3:

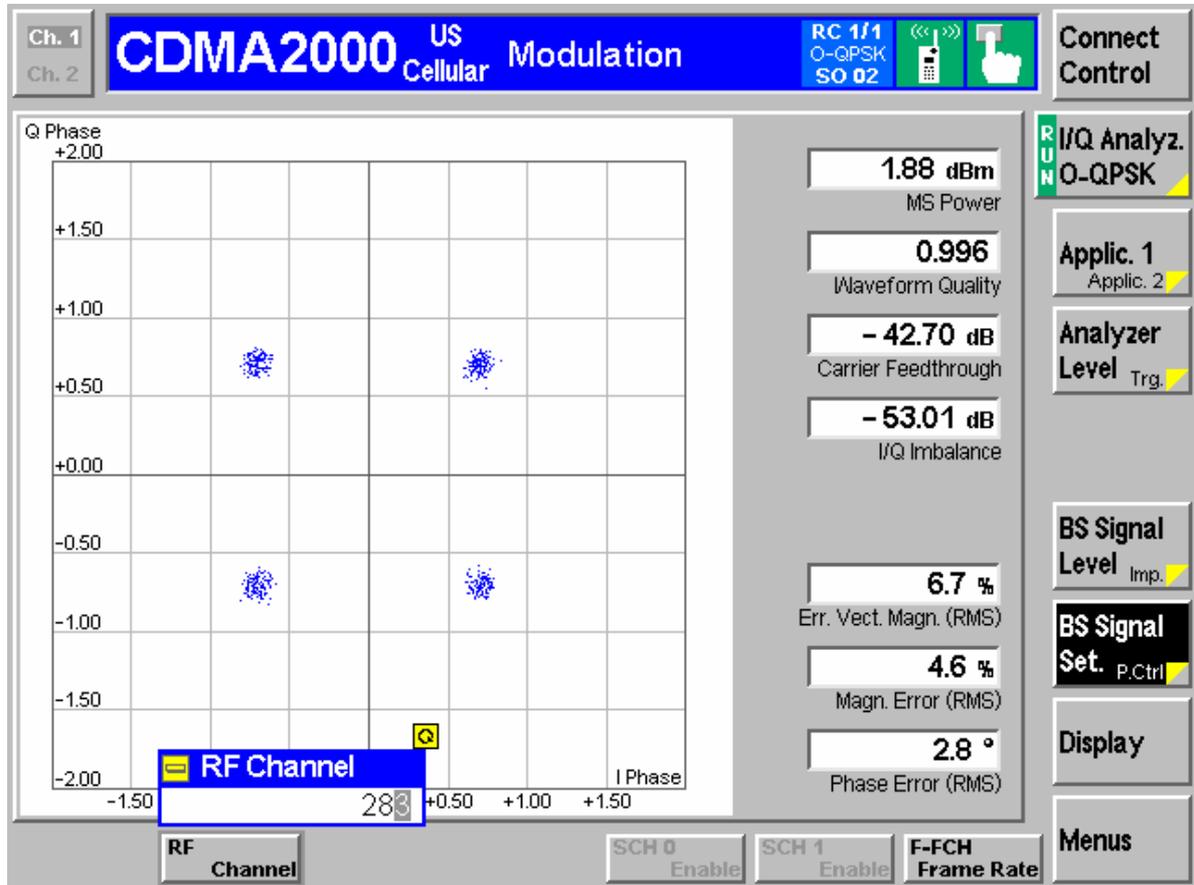
Measurement/Instrument Screen									
Control		Maximum/Minimum Power						Call Params	
Max/Min Power Setup ▾		Maximum Power		Minimum Power				Cell 1 Power	
		22.65		-62.58				-55.00	
Maximum Power Setup ▾		dBm		dBm/1.23 MHz				dBm/1.23 MHz	
Minimum Power Setup ▾		Under Range						Cell Band	
								US Cellular	
								Channel	
								777	
								Protocol Rev	
								6 (IS-2000-0)	
								Radio Config	
								(Fud3, Rvs3)	
								S055 (Loopback)	
								FCH Service Option Setup ▾	
		Active Cell			Sys Type: IS-2000				
		Connected			Logging: No Conn.				
1 of 2				IntRef	Offset				1 of 4

Appendix B

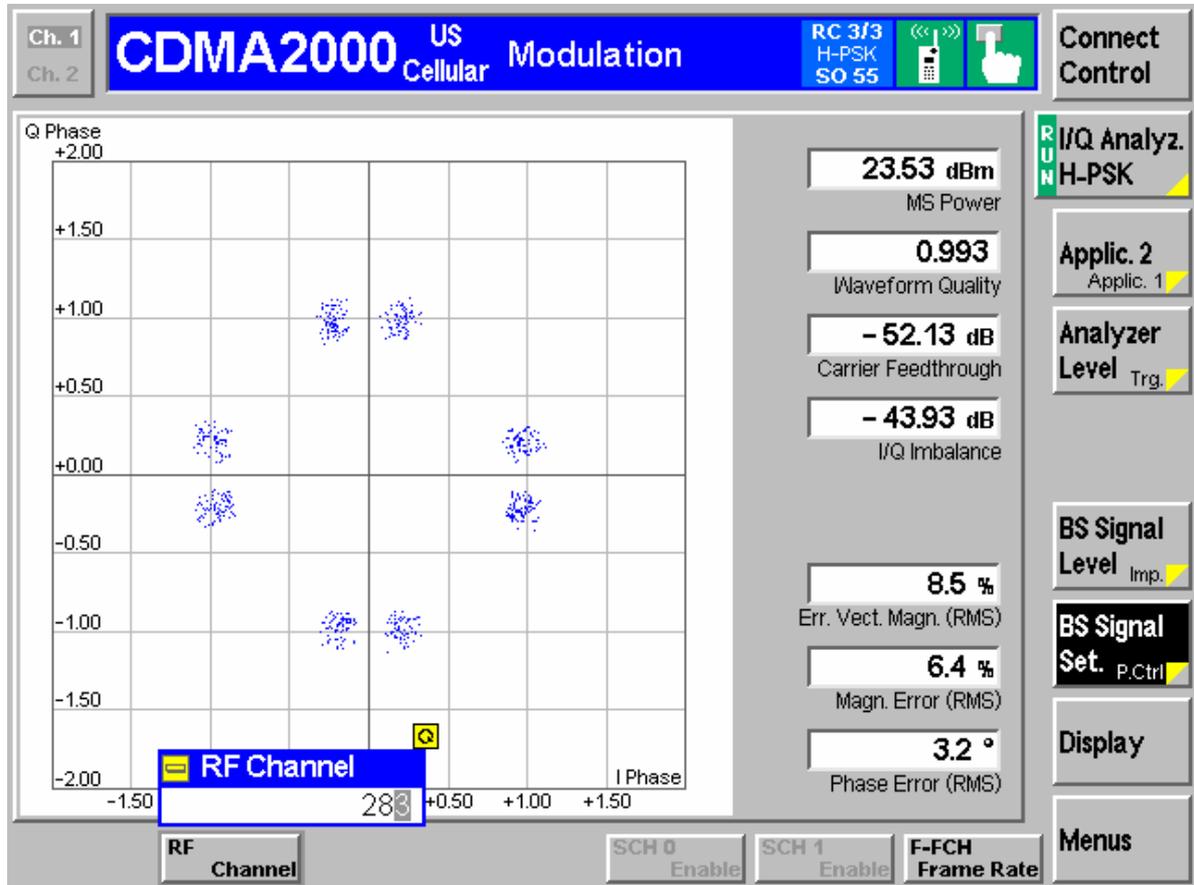
Modulation Characteristics

According to FCC Part 2.1047 & Part22 Subpart H

Channel 283 (TM1)



Channel 283 (TM3)



Appendix C

Occupied Bandwidth

According to FCC Part 2.1049 & Part 22 Subpart H

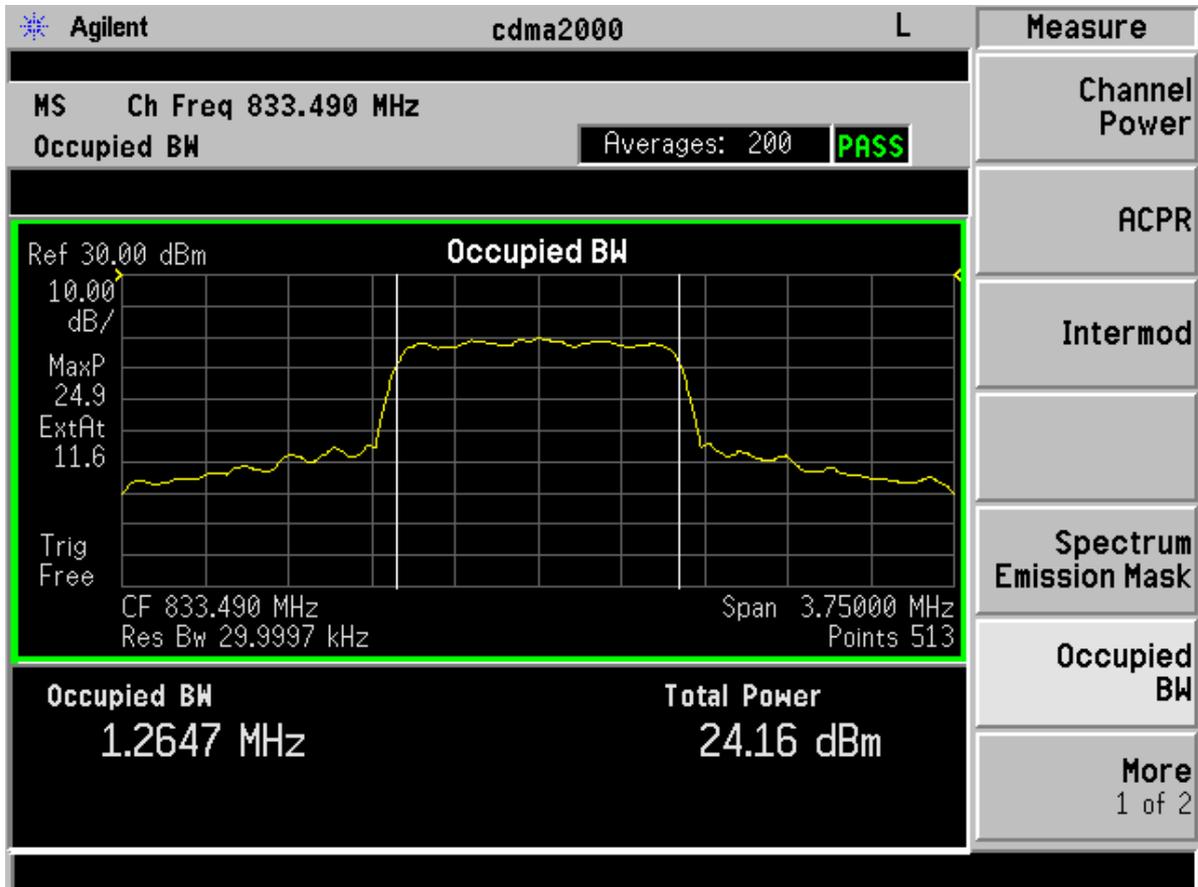
Channel 1013 (TM1)

Agilent	cdma2000	L	Measure
MS Ch Freq 824.700 MHz			Channel Power
Occupied BW Averages: 200 PASS			
Occupied BW			ACPR
			Intermod
Ref 30.00 dBm 10.00 dB/ MaxP 24.9 ExtAt 11.6 Trig Free			Spectrum Emission Mask
CF 824.700 MHz Res Bw 29.9997 kHz			Occupied BW
Span 3.75000 MHz Points 513			
Occupied BW		Total Power	More 1 of 2
1.2618 MHz		23.56 dBm	

Channel 1013 (TM3)

Agilent cdma2000 L		Measure Channel Power ACPR Intermod Spectrum Emission Mask Occupied BW More 1 of 2
MS Ch Freq 824.700 MHz Occupied BW Averages: 200 PASS		
<div style="border: 2px solid green; padding: 5px;"> <p style="text-align: center;">Occupied BW</p> <p>Ref 30.00 dBm 10.00 dB/ MaxP 24.9 ExtAt 11.6 Trig Free</p> <p>CF 824.700 MHz Span 3.75000 MHz Res Bw 29.9997 kHz Points 513</p> </div>		
Occupied BW 1.2590 MHz	Total Power 23.54 dBm	
Occupied BW		

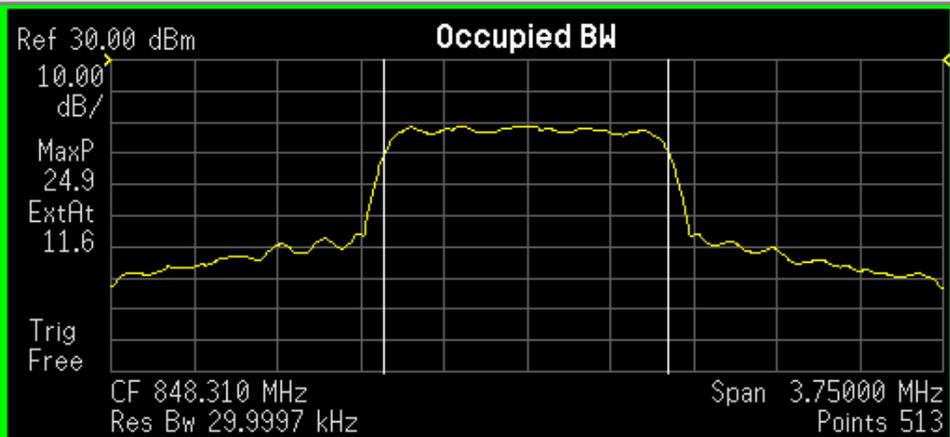
Channel 283 (TM1)



Channel 283 (TM3)

Agilent		cdma2000	L	Measure
MS Ch Freq 833.490 MHz				Channel Power
Occupied BW		Averages: 200	PASS	
Occupied BW				
Ref 30.00 dBm				
10.00 dB/				
MaxP 24.9				
ExtAt 11.6				
Trig Free				
CF 833.490 MHz		Span 3.75000 MHz		
Res Bw 29.9997 kHz		Points 513		
Occupied BW		Total Power		
1.2628 MHz		24.13 dBm		
				Occupied BW
				More 1 of 2

Channel 777 (TM1)

Agilent		cdma2000	L	Measure
MS Ch Freq 848.310 MHz		Occupied BW		Channel Power
		Averages: 200	PASS	ACPR
				Intermod
Ref 30.00 dBm 10.00 dB/ MaxP 24.9 ExtAt 11.6 Trig Free				Spectrum Emission Mask
CF 848.310 MHz		Res Bw 29.9997 kHz		Occupied BW
Span 3.75000 MHz		Points 513		More
Occupied BW		Total Power		1 of 2
1.2621 MHz		23.64 dBm		

Channel 777 (TM3)

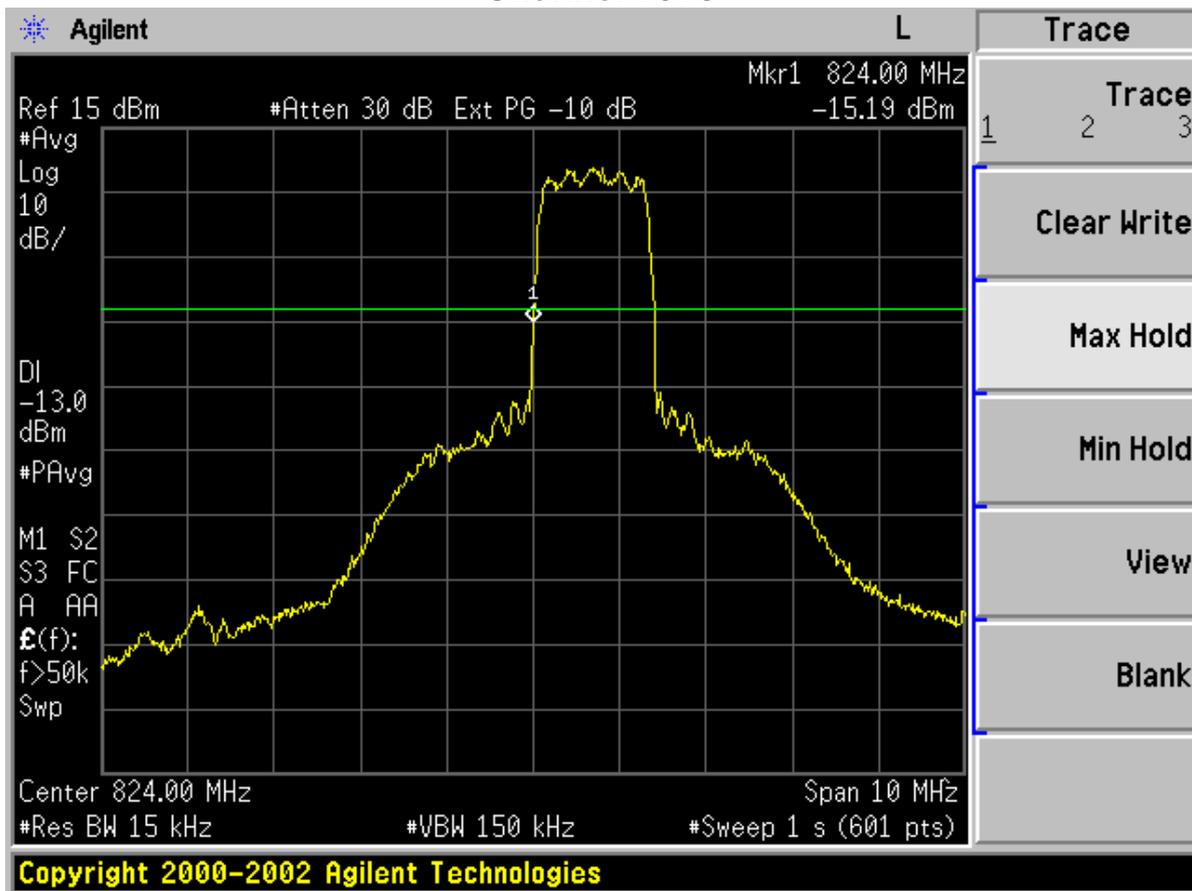
Agilent		cdma2000	L	Measure
MS Ch Freq 848.310 MHz		Occupied BW		Channel Power
		Averages: 200 PASS		ACPR
<p>Ref 30.00 dBm 10.00 dB/ MaxP 24.9 ExtAt 11.6 Trig Free</p> <p>CF 848.310 MHz Res Bw 29.9997 kHz Span 3.75000 MHz Points 513</p>				Intermod
Occupied BW		Total Power		Spectrum Emission Mask
1.2581 MHz		23.62 dBm		Occupied BW
				More 1 of 2

Appendix D

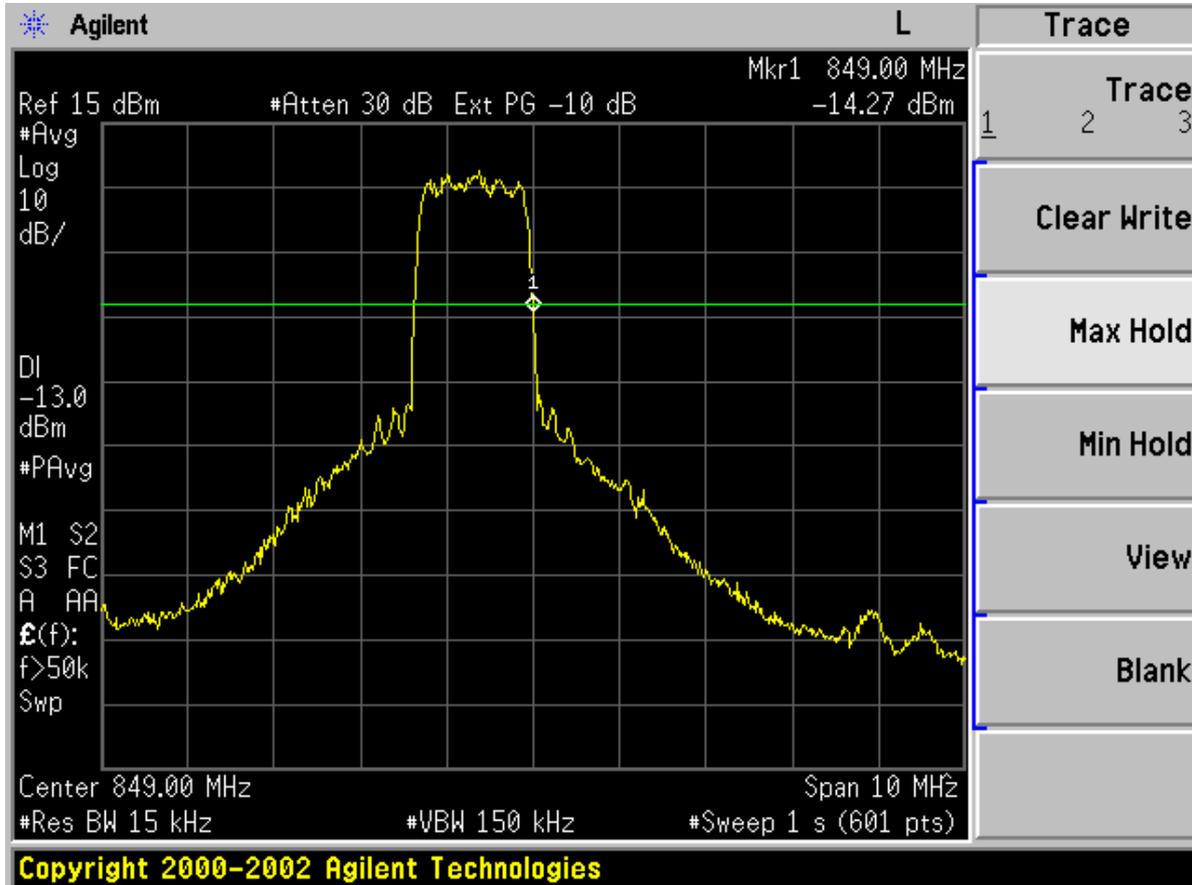
Band Edges Compliance According to FCC part 2.1051 & 22.917

TM1

Left Edge (824 MHz)
Channel 1013

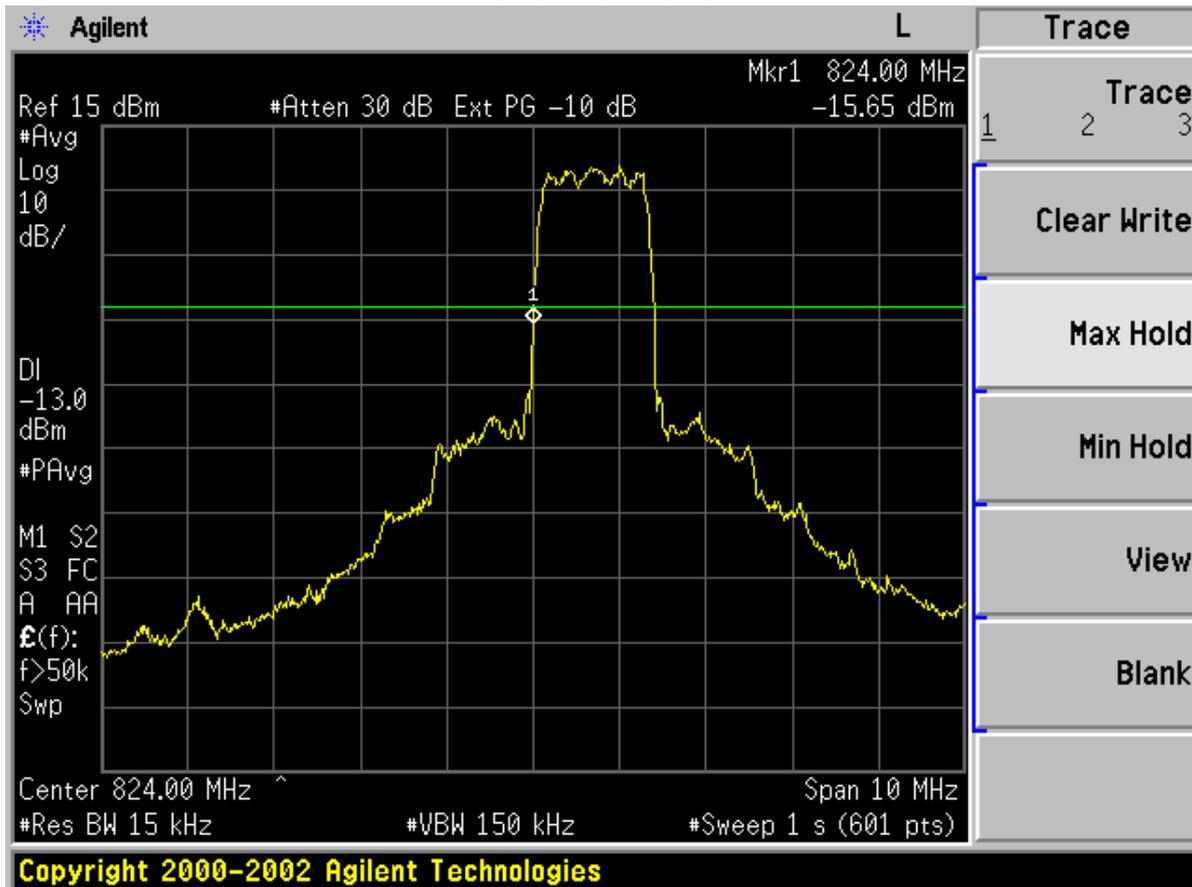


Right Edge (849 MHz)
Channel 777

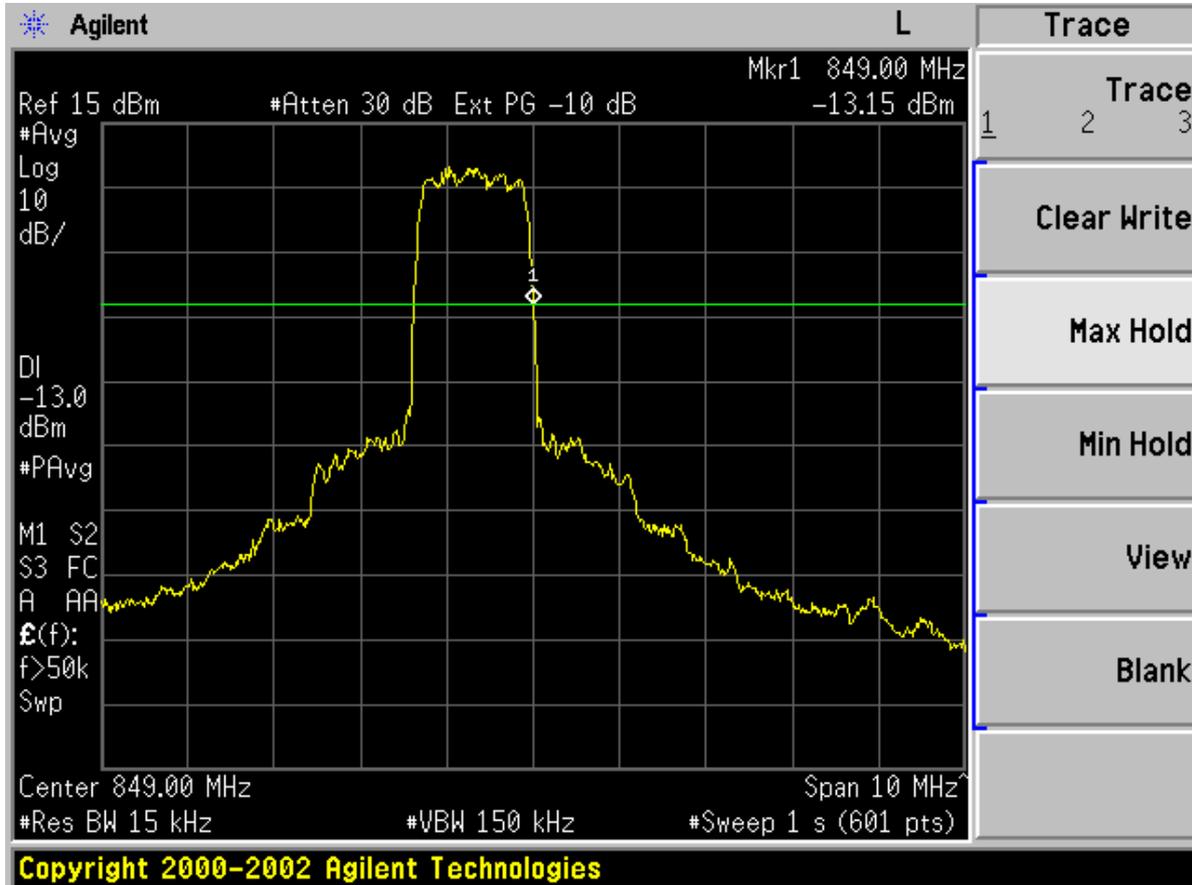


TM3

Left Edge (824 MHz)
Channel 1013



Right Edge (849 MHz)
Channel 777



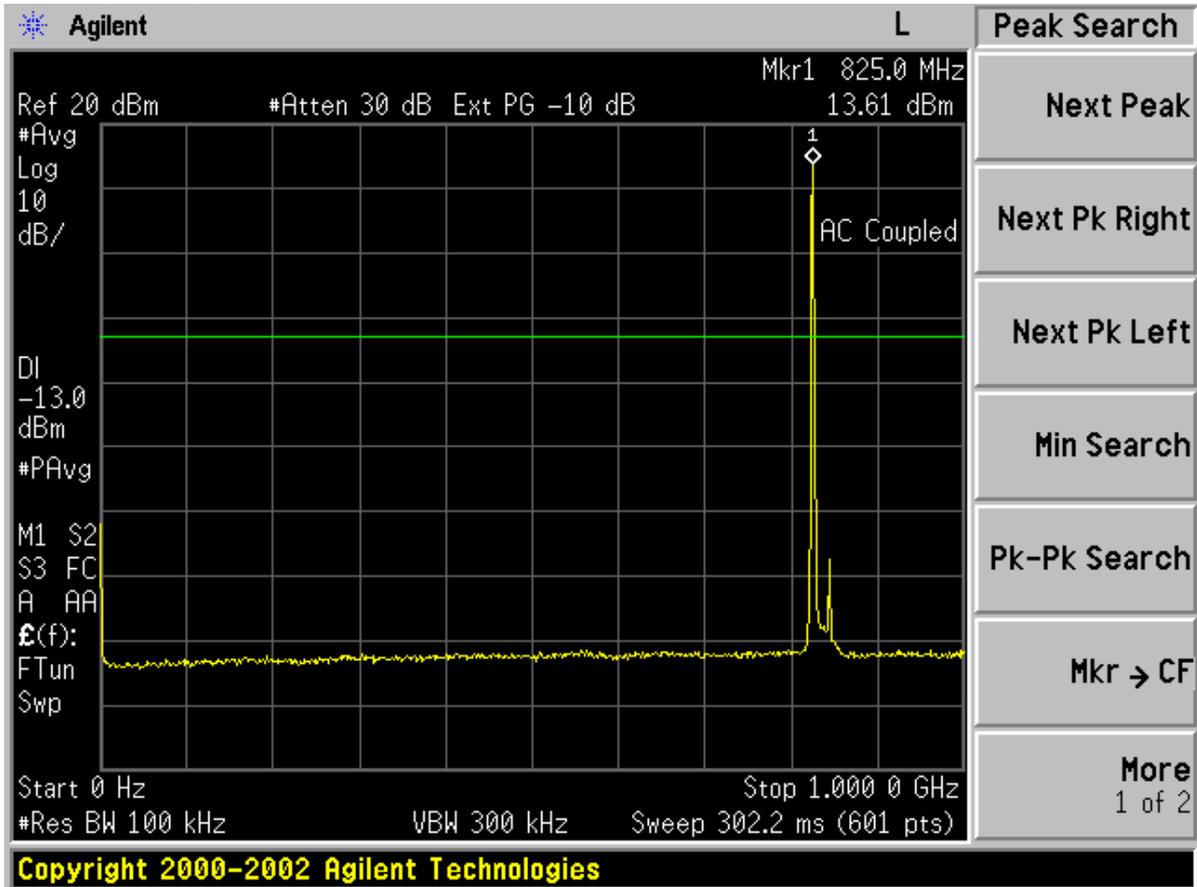
Appendix E

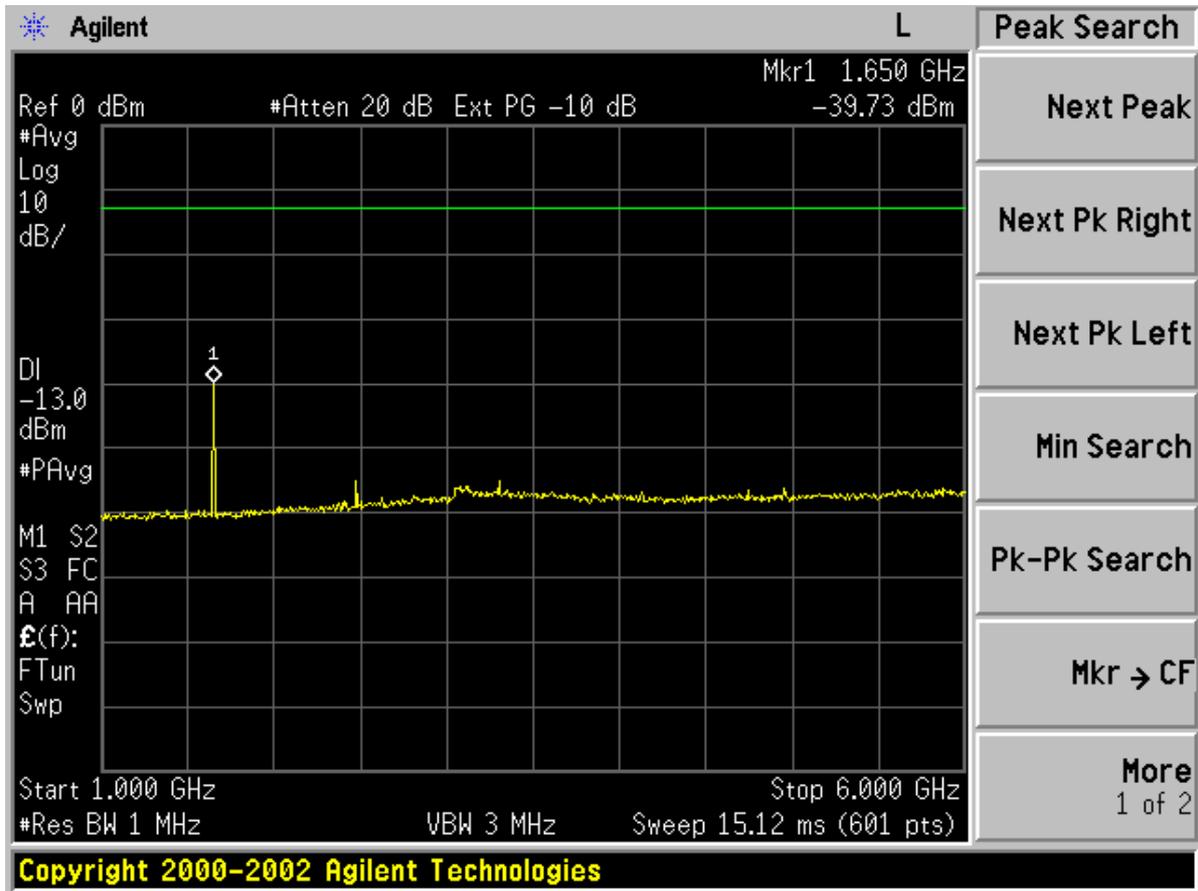
Spurious Emission at Antenna Terminal

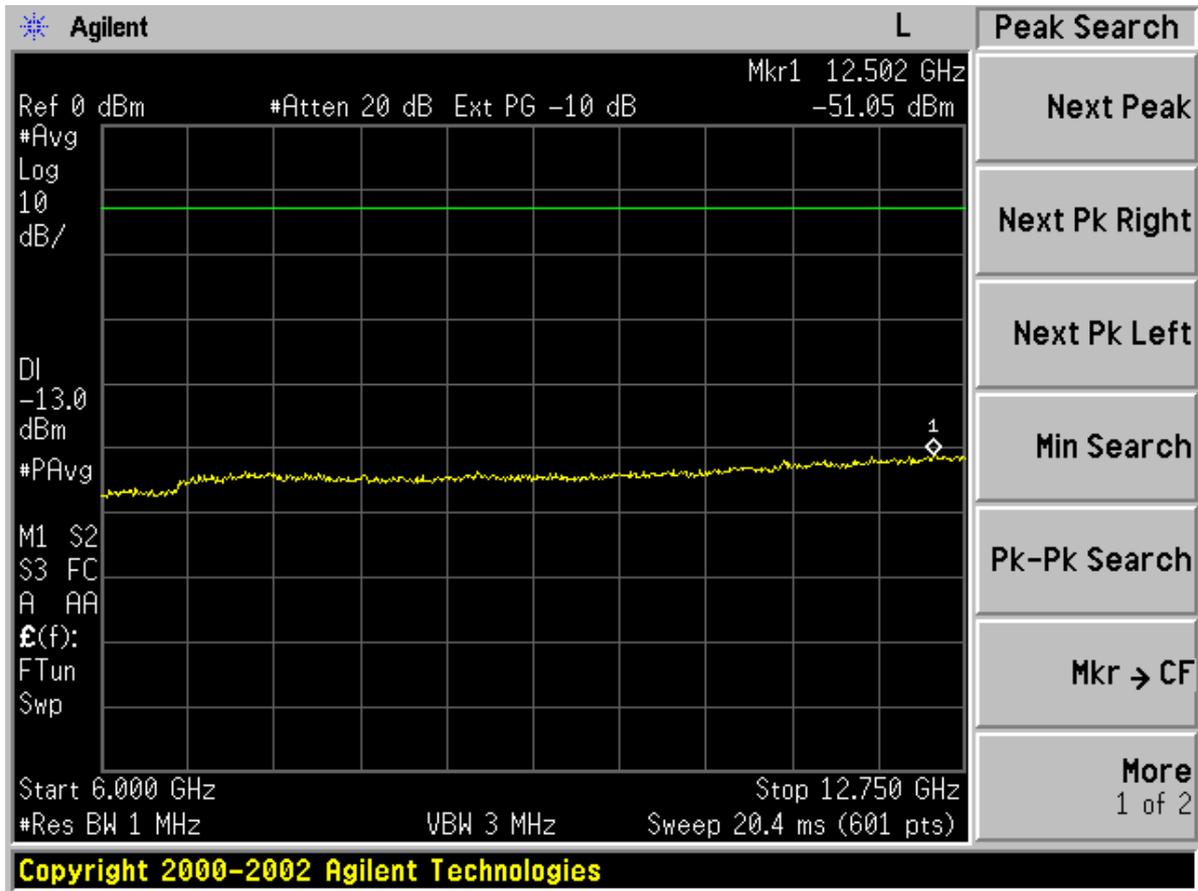
According to FCC Part 2.1051 & 22.917

TM1

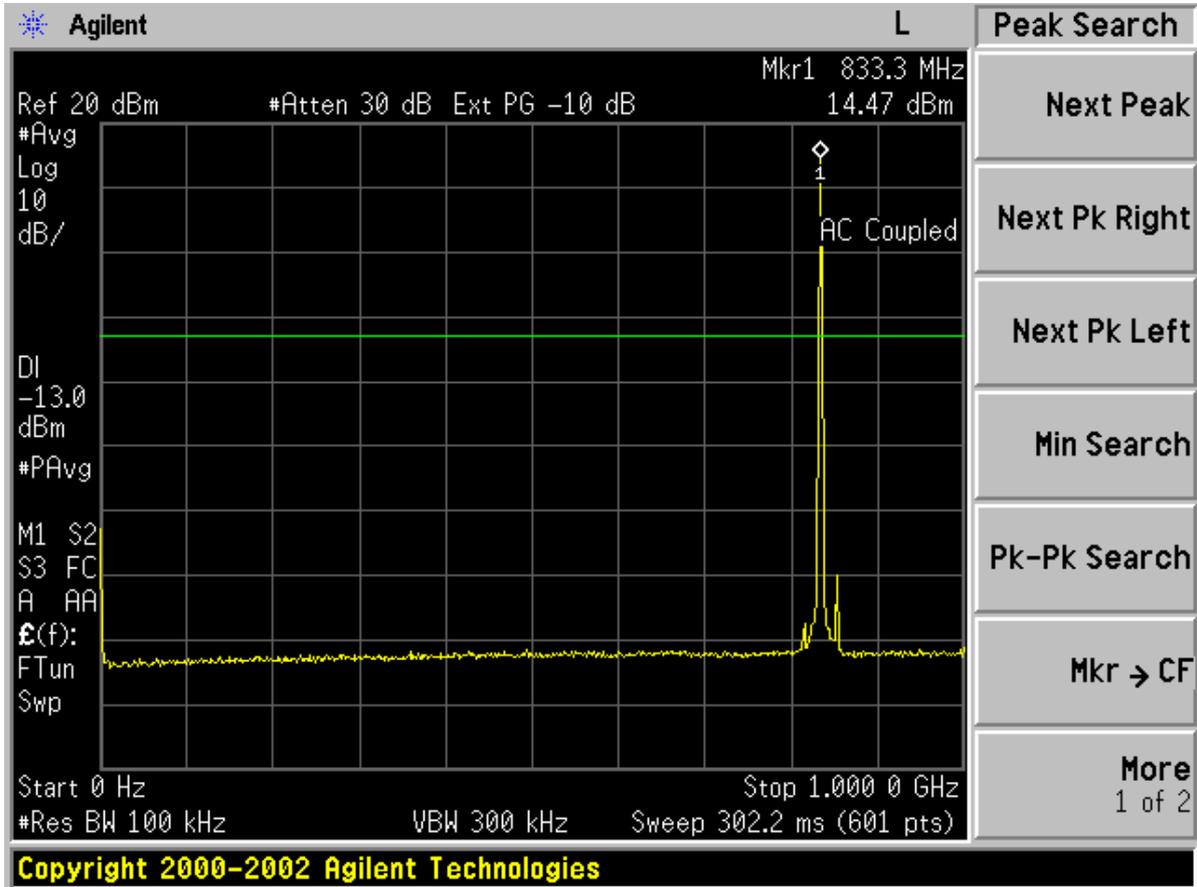
Channel 1013

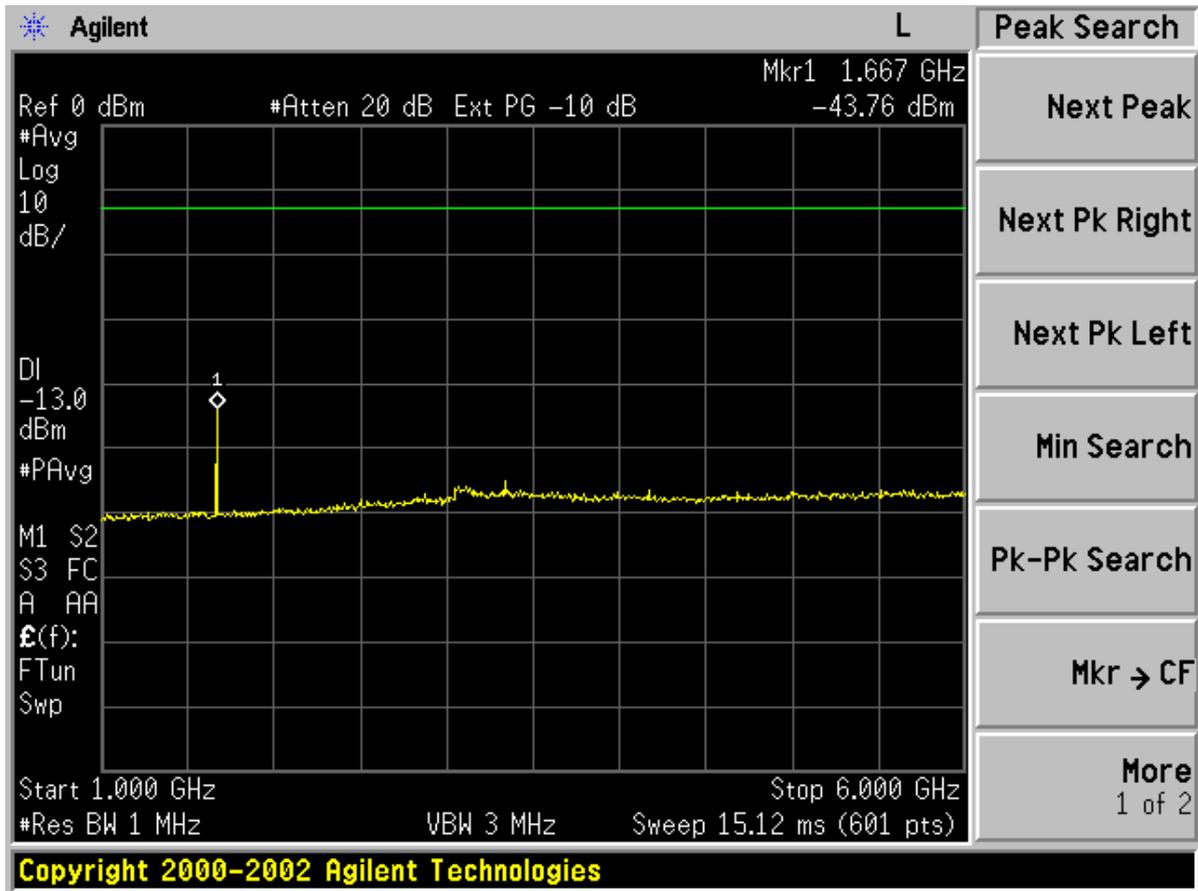


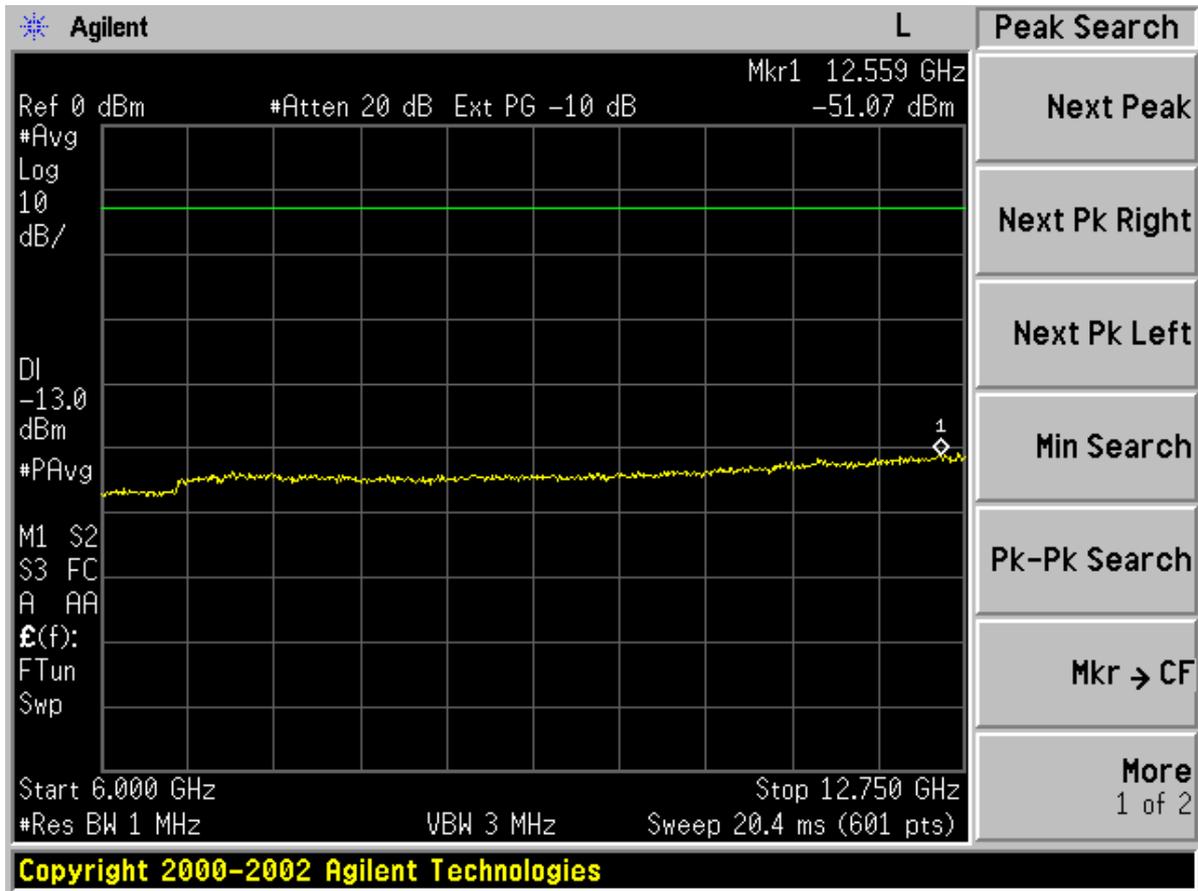




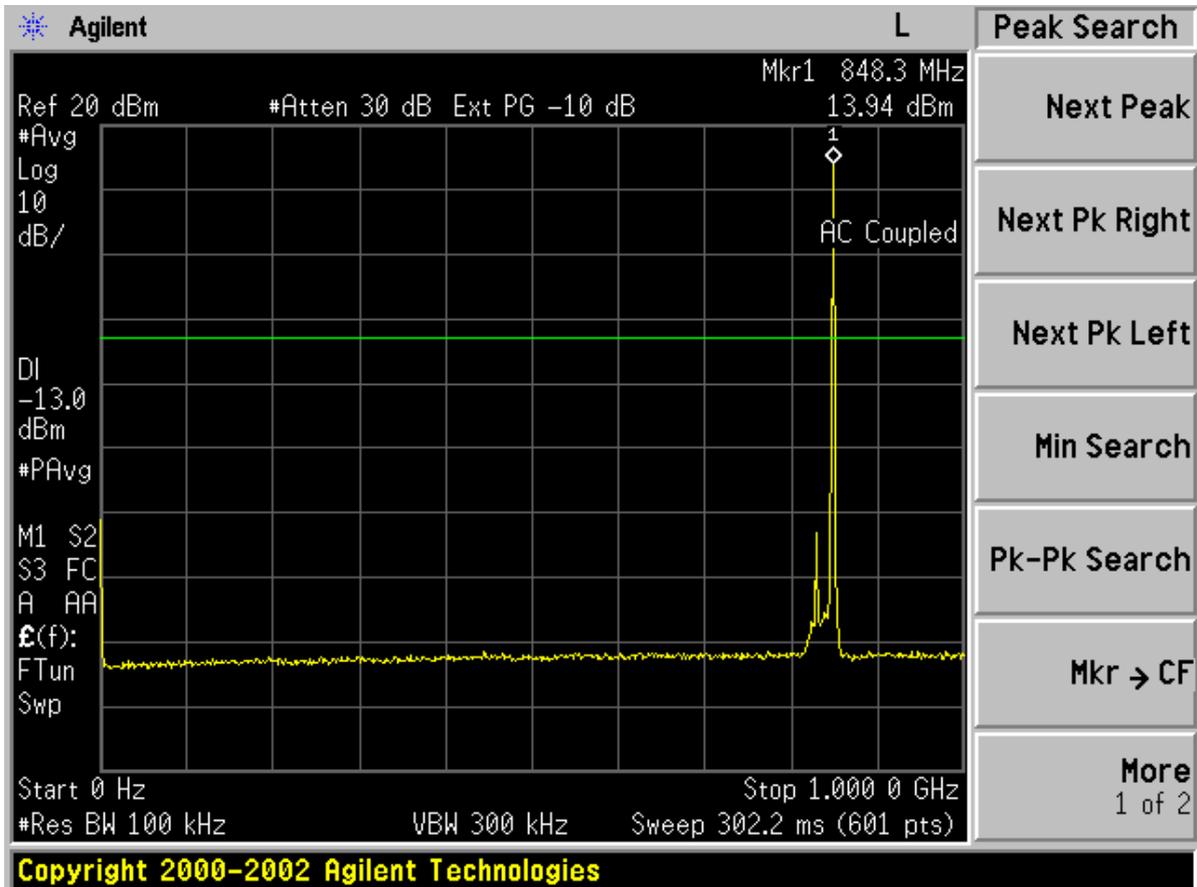
Channel 283

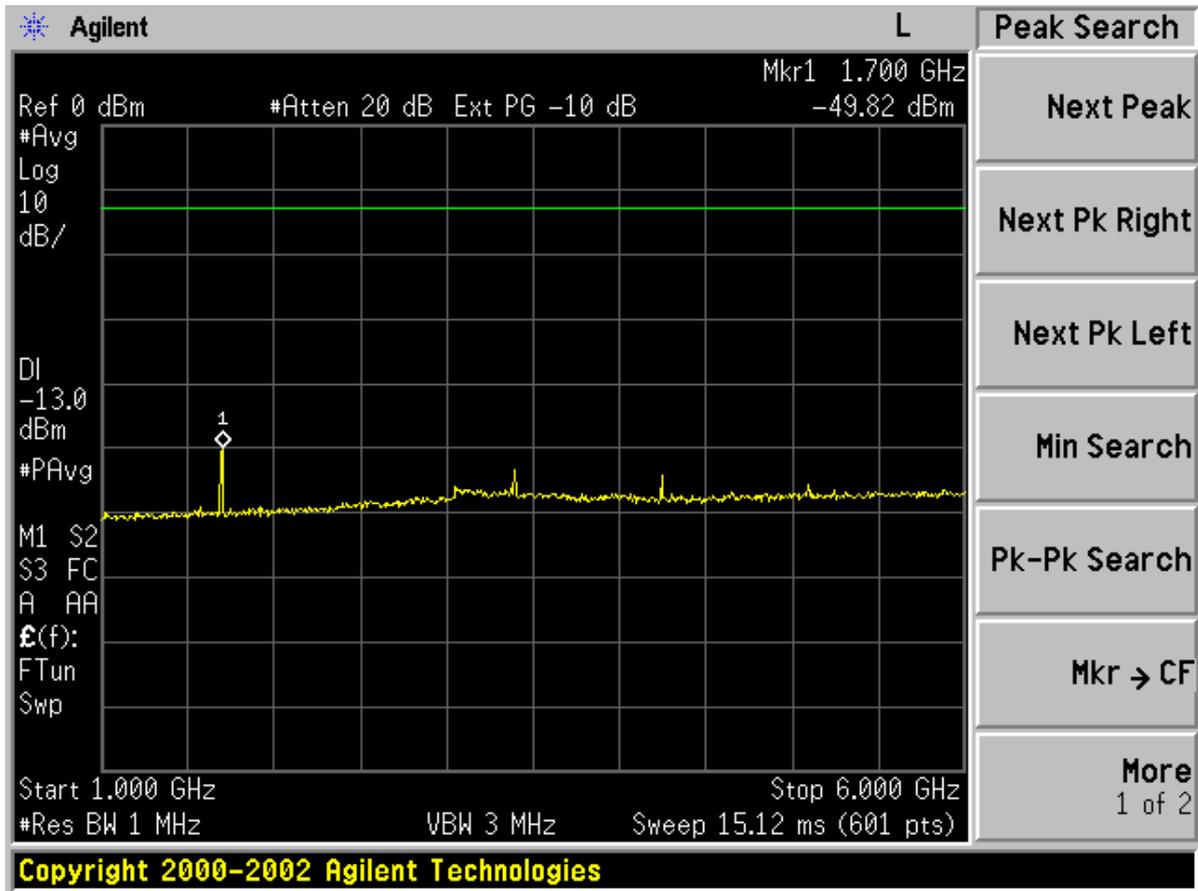


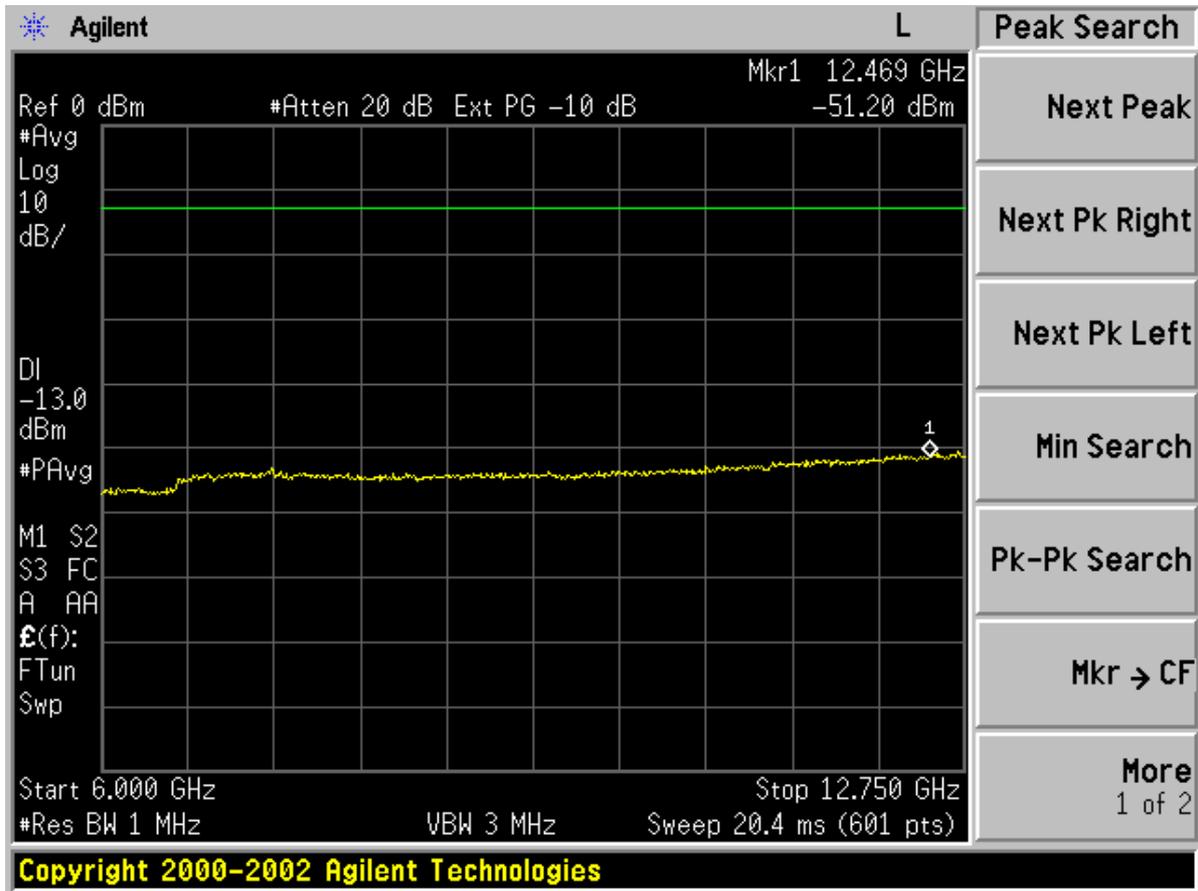




Channel 777

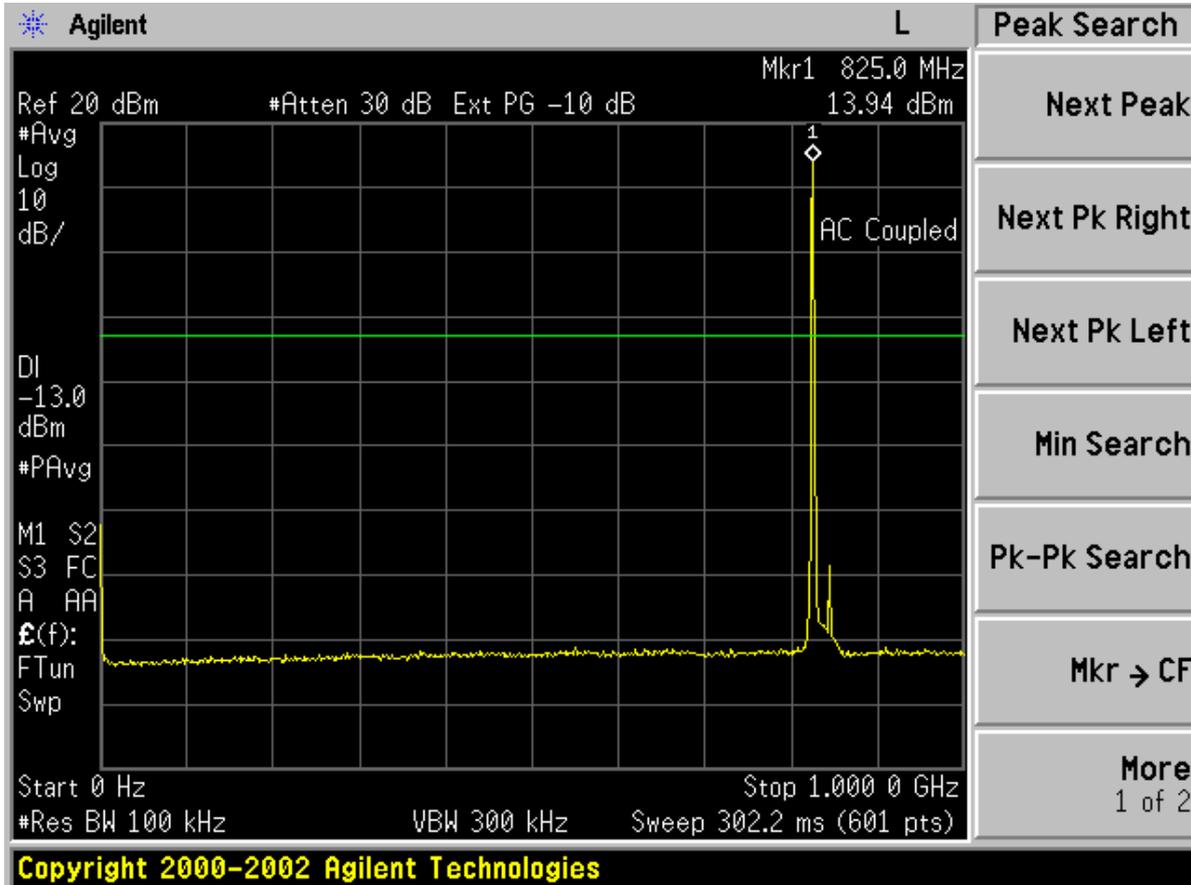


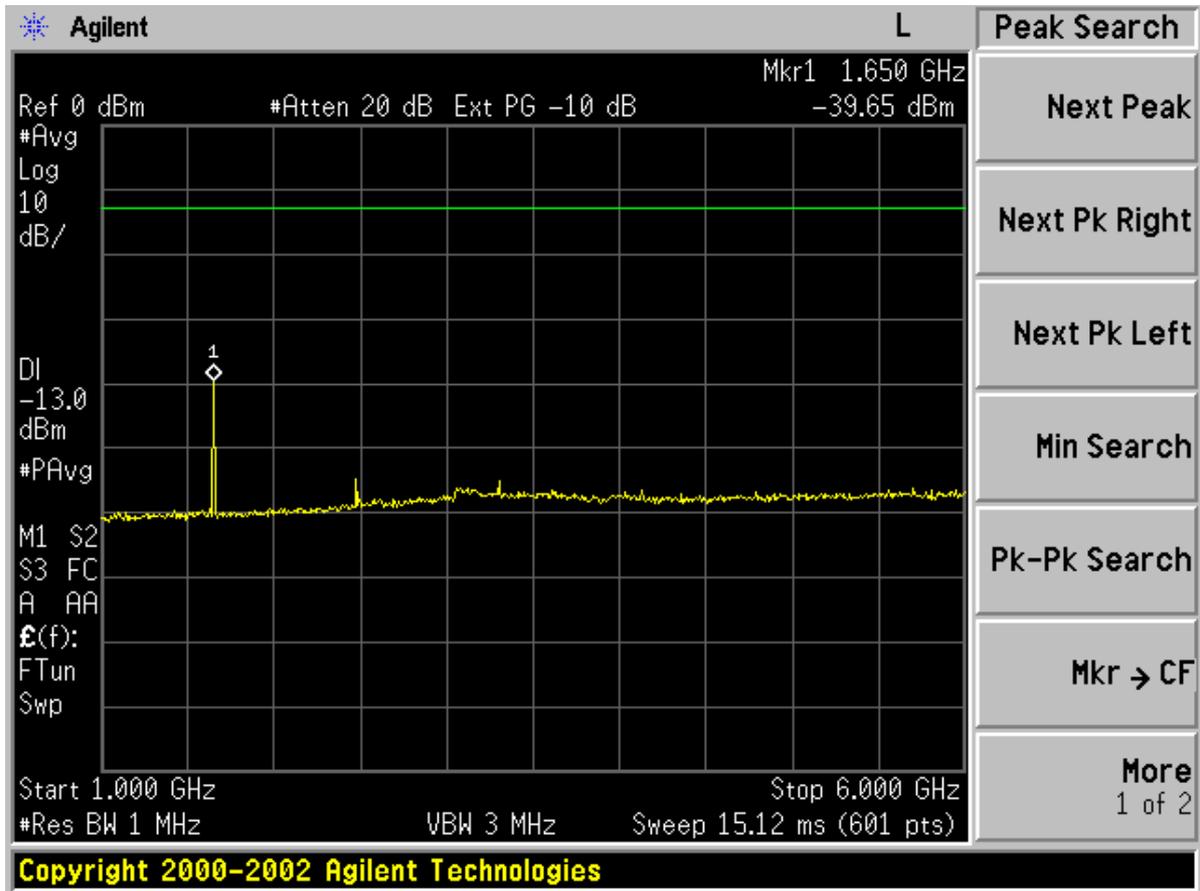


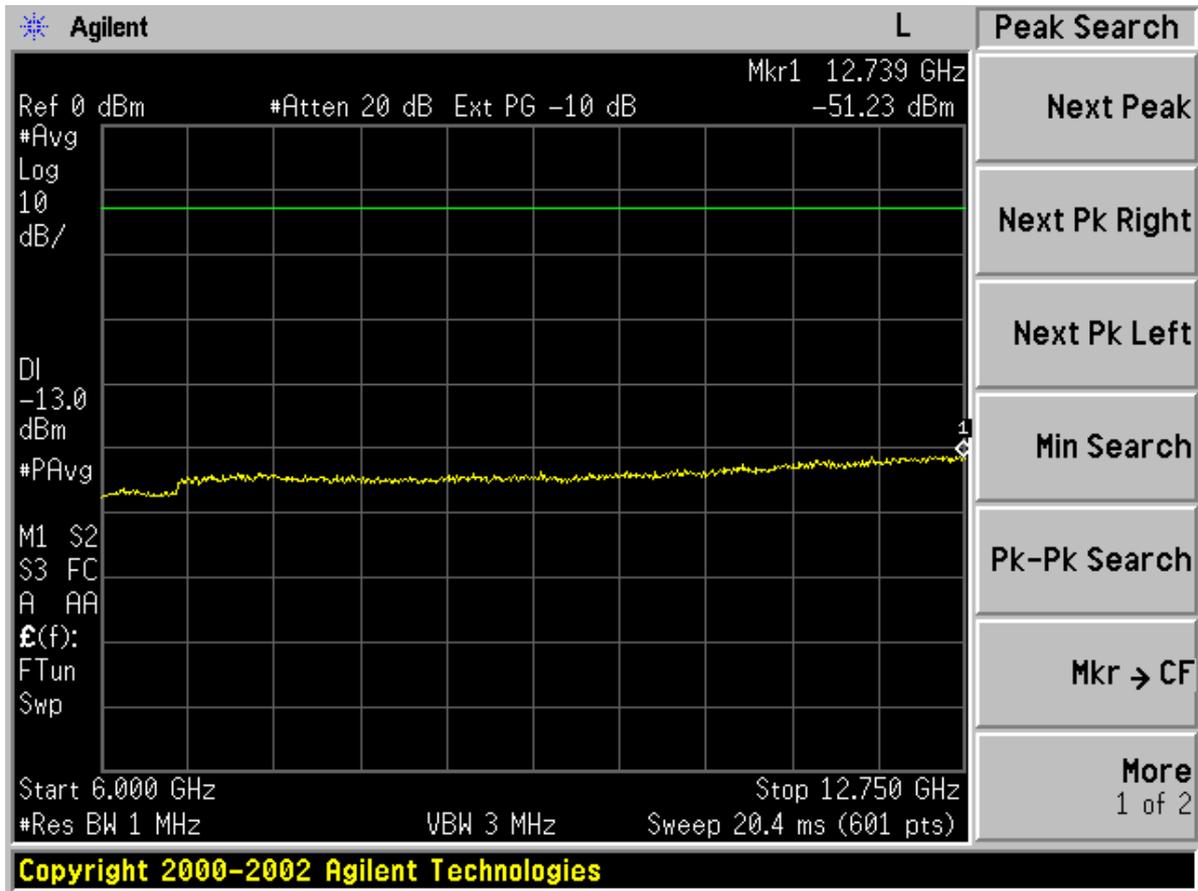


TM3

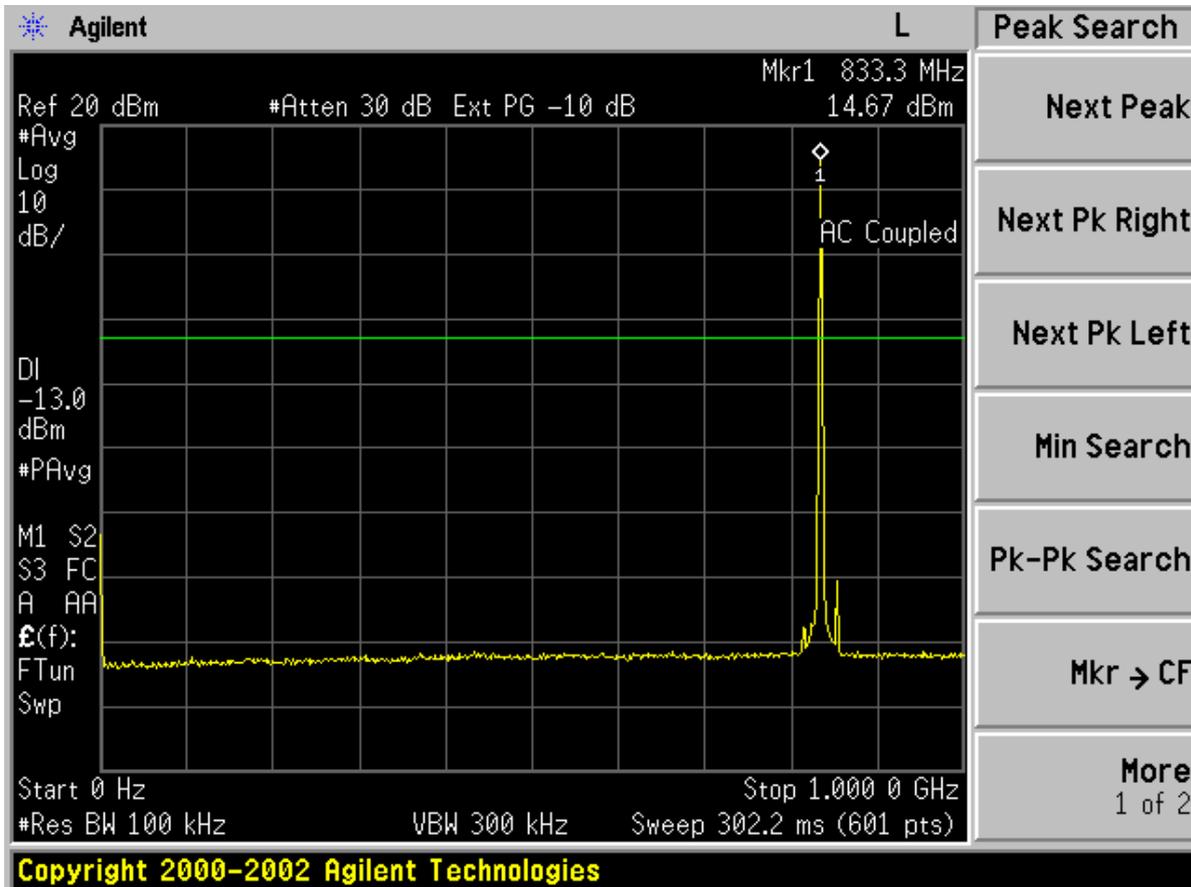
Channel 1013

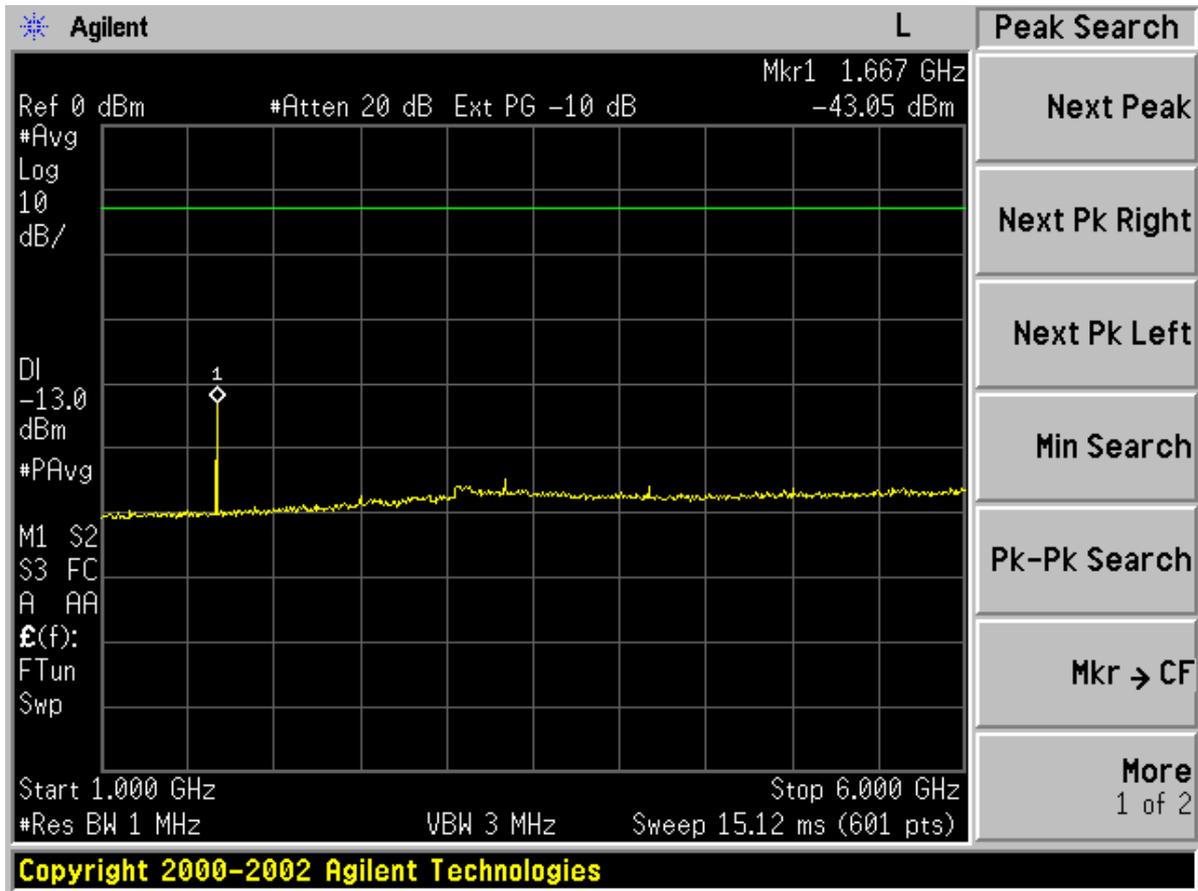


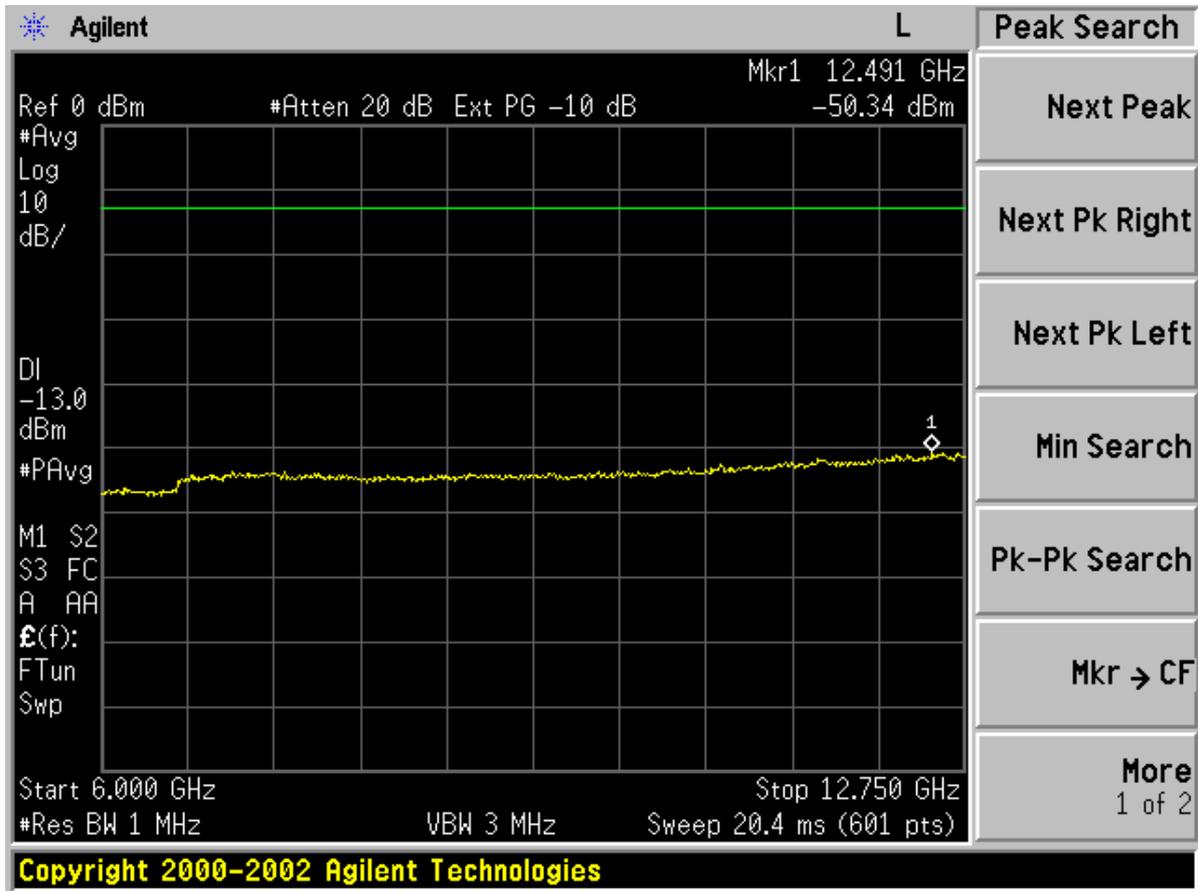




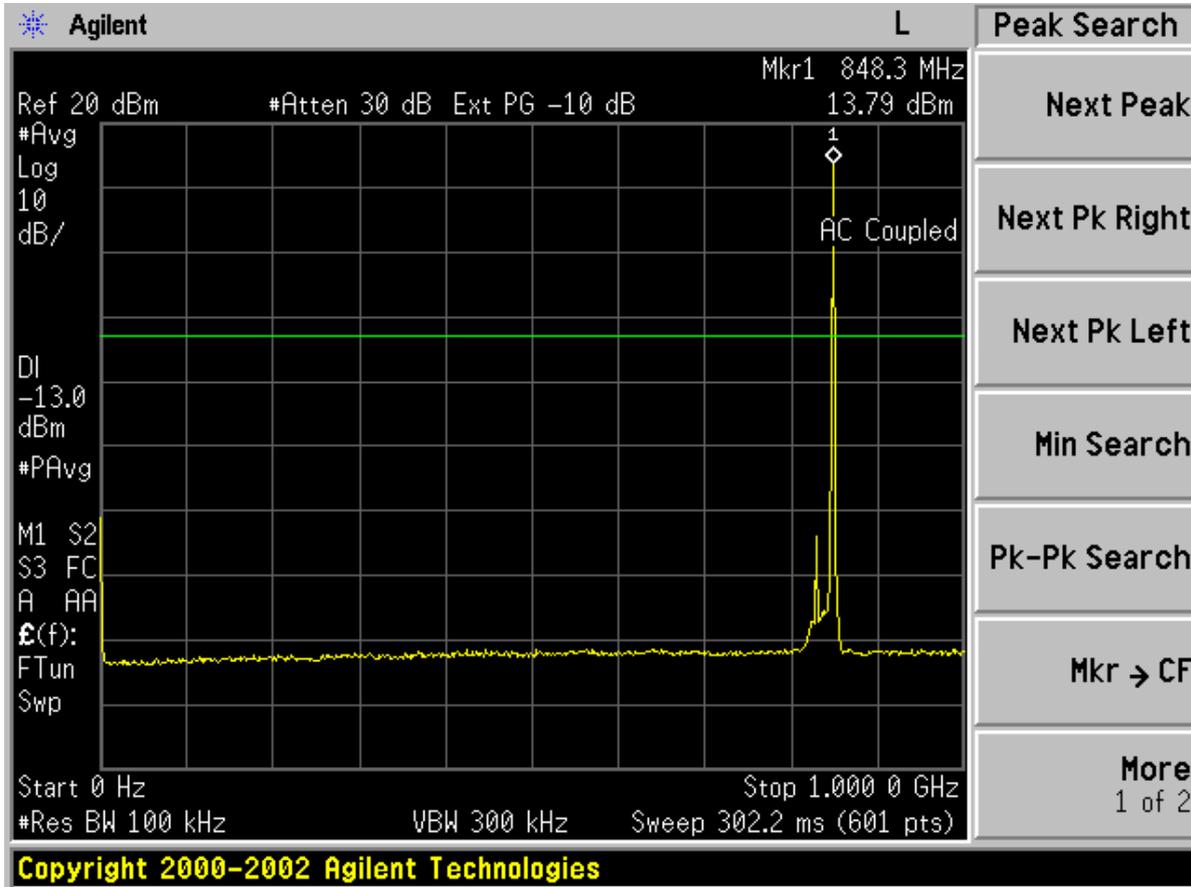
Channel 283

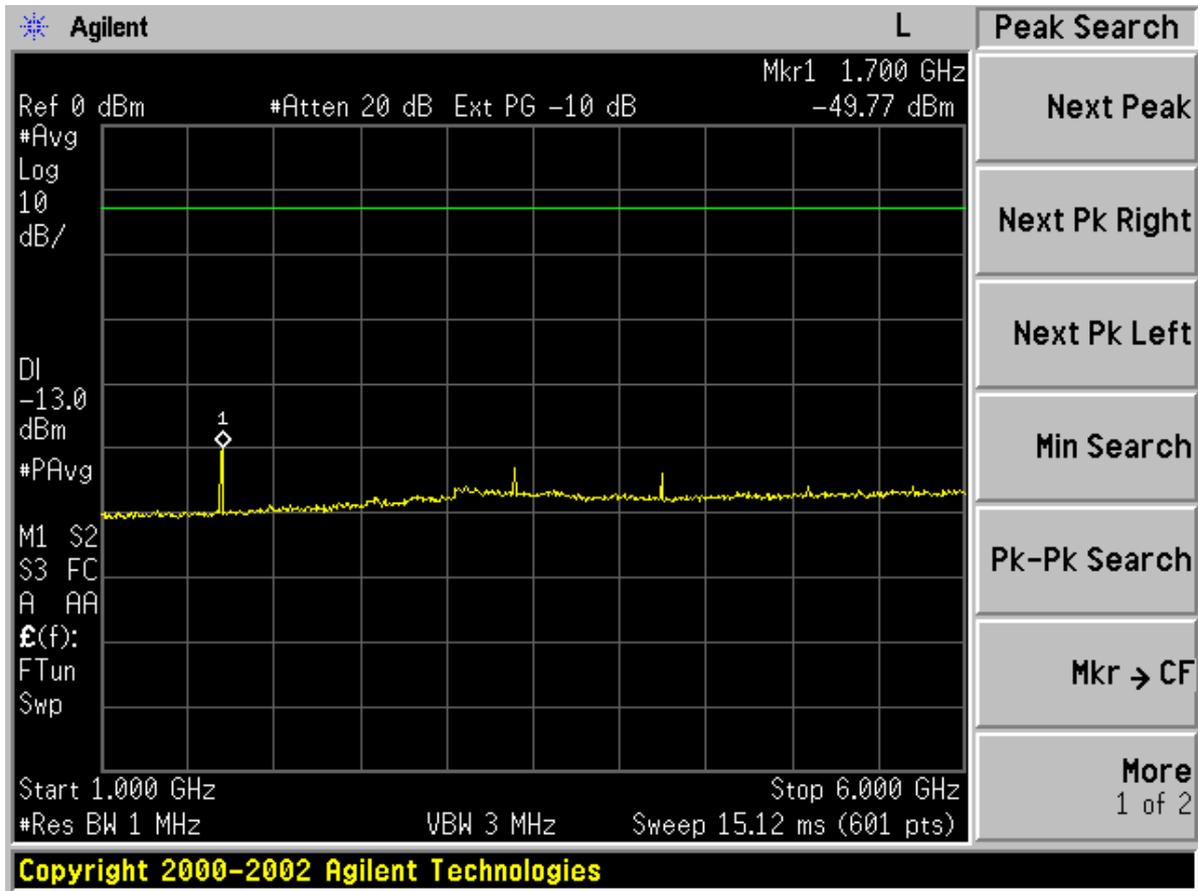


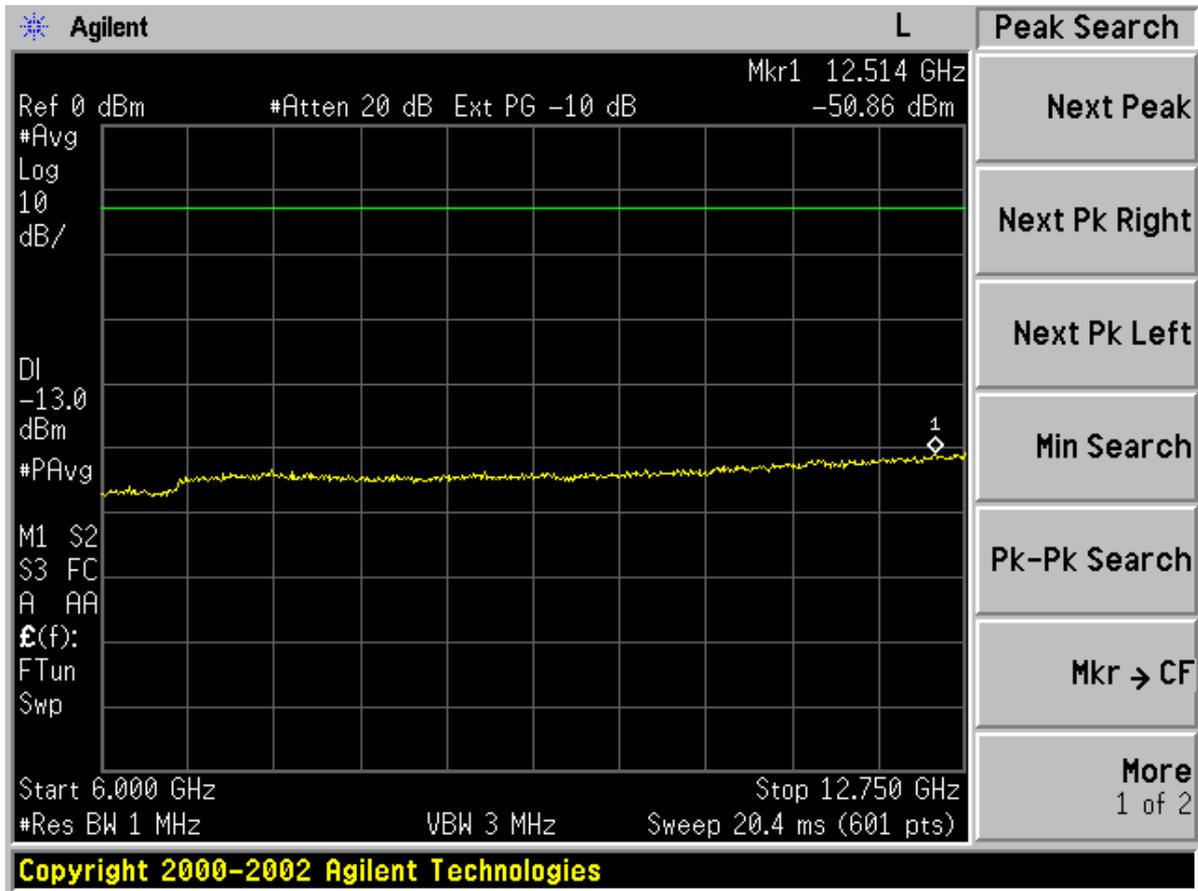




Channel 777



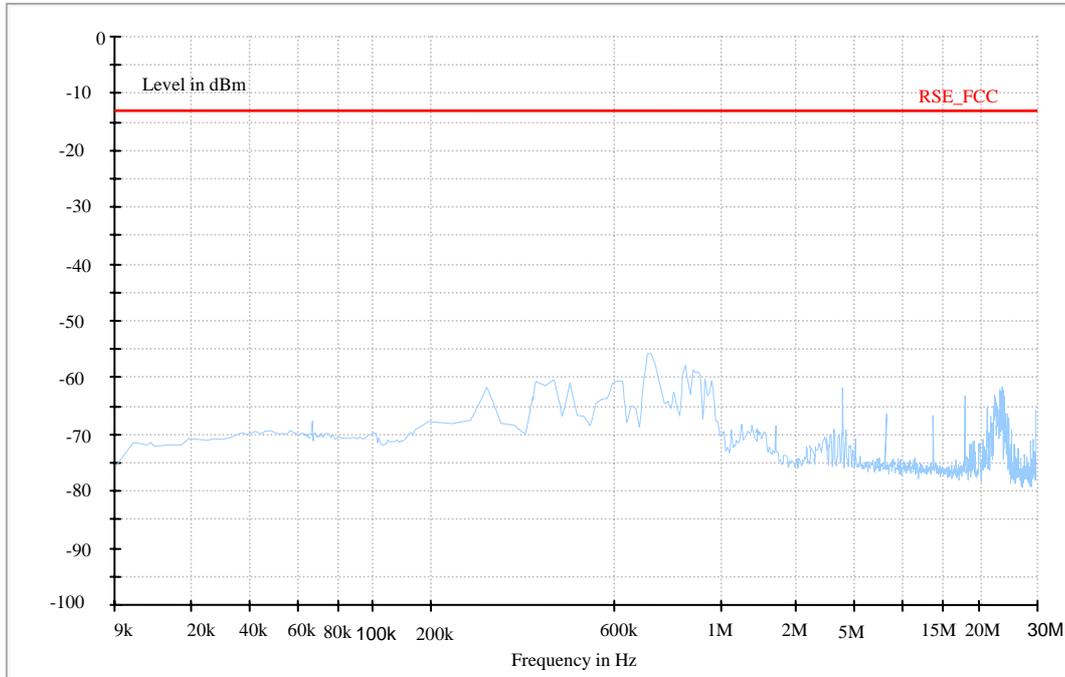




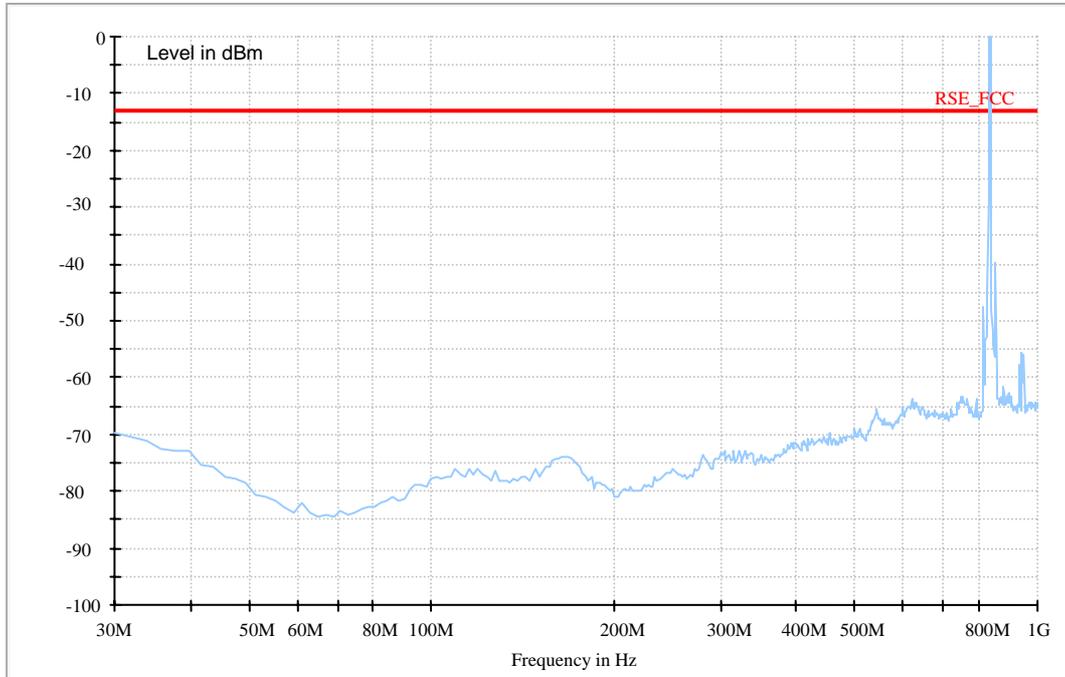
Appendix F

Radiated Spurious Emission According to FCC Part 2.1053 & 22.917

Traffic Mode (9kHz-30MHz)



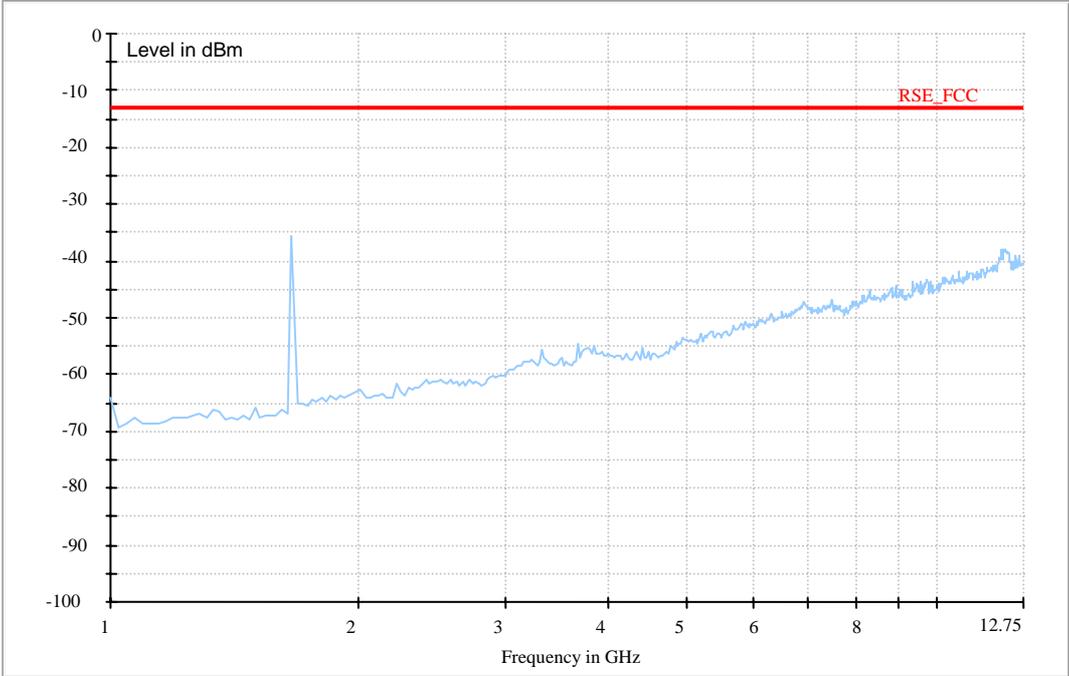
Traffic Mode (30MHz-1GHz)



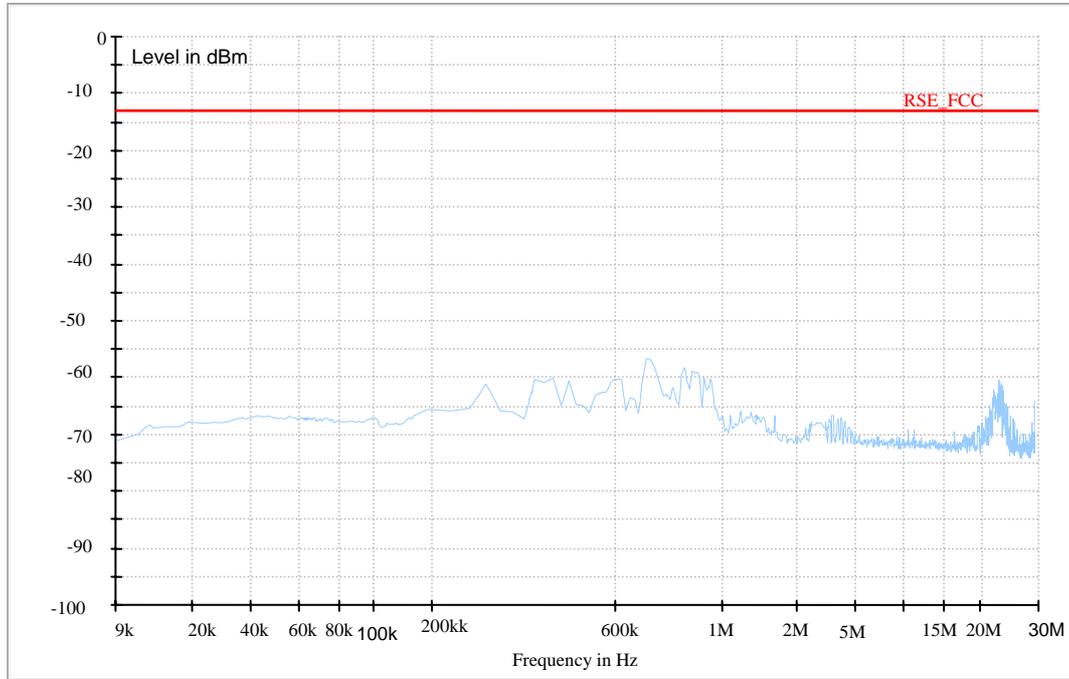
Note: The frequency which exceeded the limit was the carrier frequency.



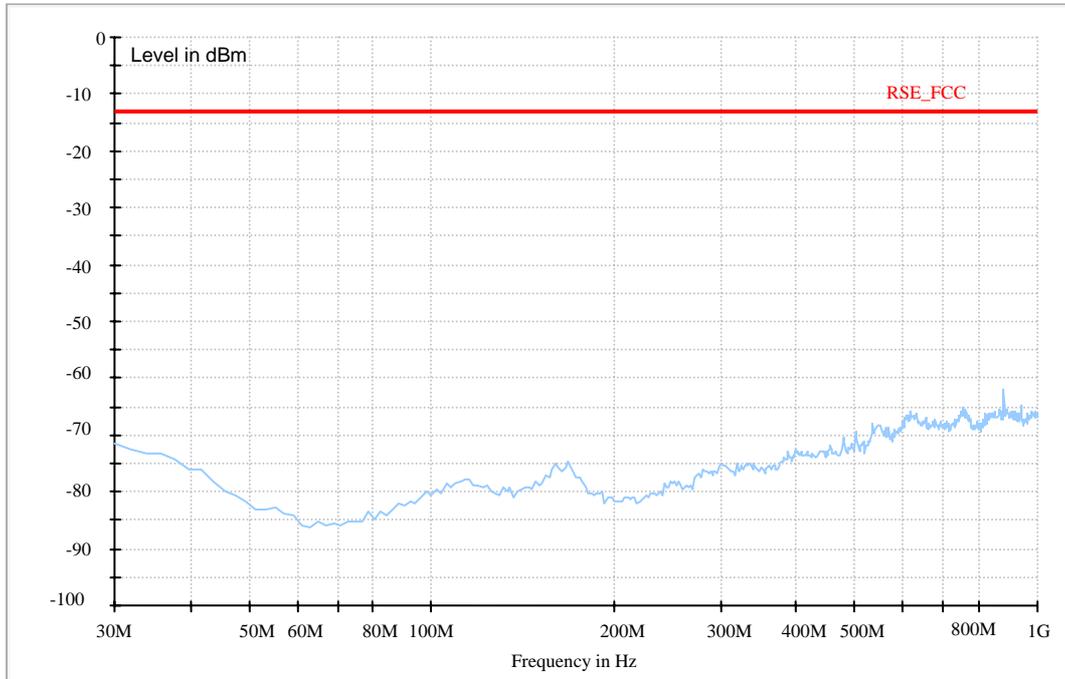
Traffic Mode (1GHz-12.75GHz)



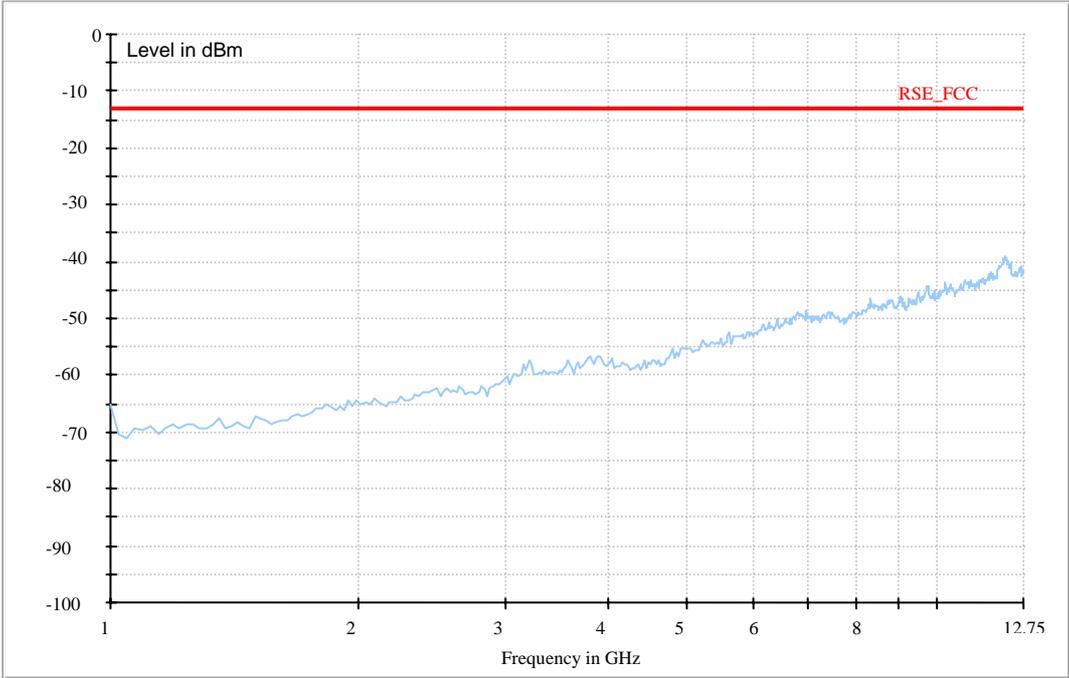
Idle Mode (9 kHz-30MHz)



Idle Mode (30MHz-1GHz)



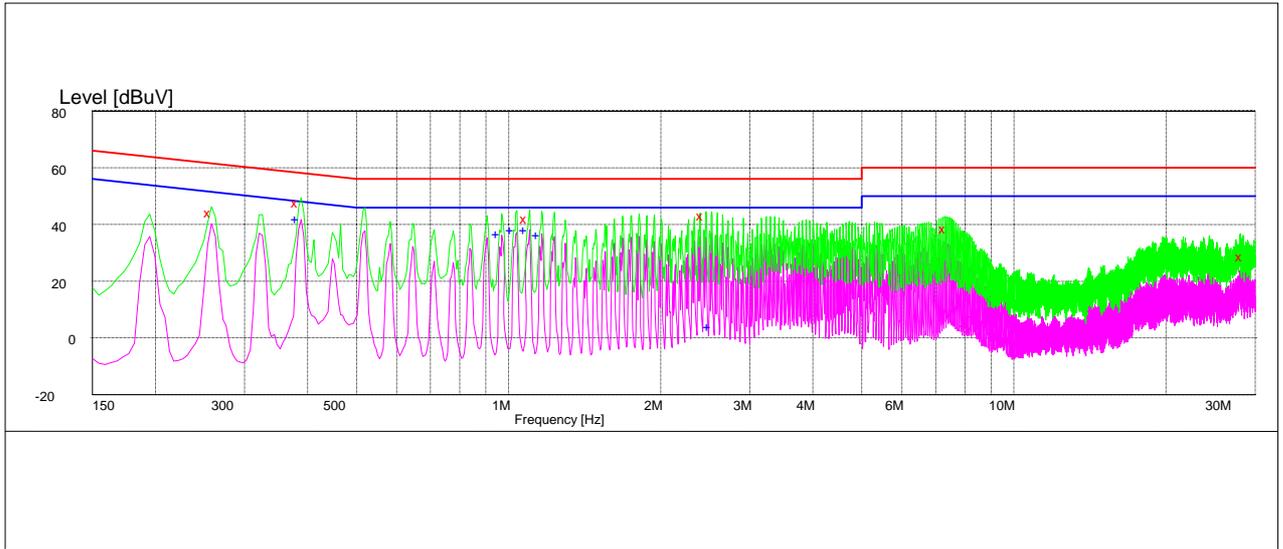
Idle Mode (1GHz-12.75GHz)



Appendix G

Conducted Emission at Power Port

According to FCC Part 15.107



MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.258000	44.60	1.1	62	16.9	L1	FLO
0.384000	48.40	0.8	58	9.8	L1	FLO
1.090500	42.60	0.6	56	13.4	L1	FLO
2.431500	43.70	0.5	56	12.3	L1	FLO
7.359000	39.00	0.8	60	21.0	L1	FLO
28.356000	29.30	3.5	60	30.7	L1	FLO

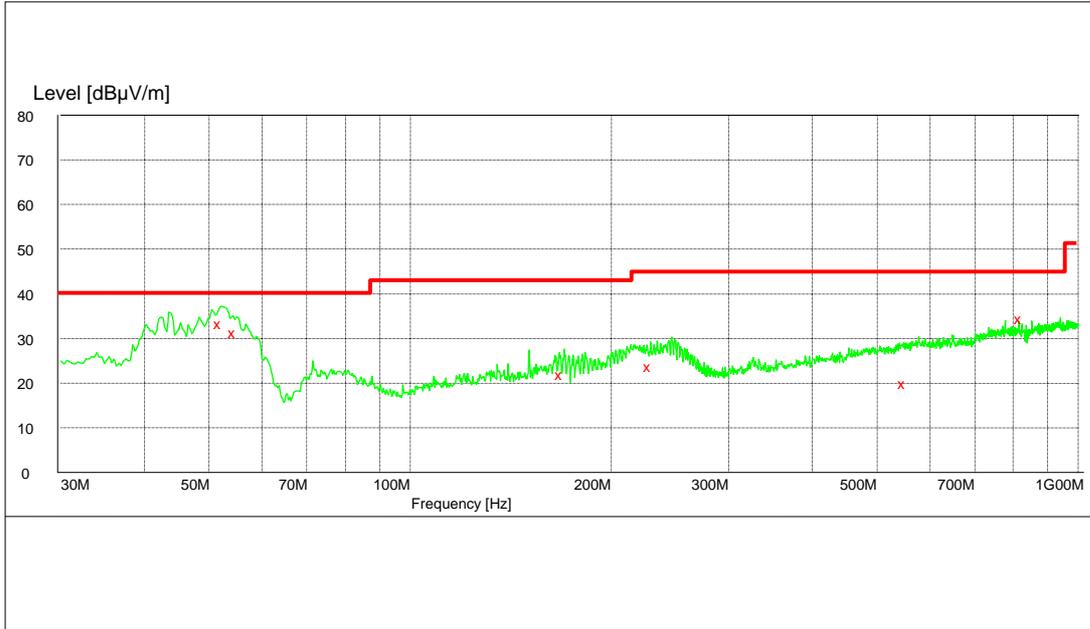
MEASUREMENT RESULT: "AV DECTER"

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.384000	42.80	0.8	48	5.3	L1	FLO
0.960000	37.30	0.5	46	8.7	L1	FLO
1.023000	38.80	0.5	46	7.2	L1	FLO
1.086000	38.90	0.6	46	7.1	L1	FLO
1.153500	36.90	0.6	46	9.1	L1	FLO
2.517000	4.70	0.5	46	41.3	L1	FLO

Appendix H

Radiated Emission of Enclosure in Idle Mode

According to FCC Part 15.109



MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level dBµV/m	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
51.960000	33.50	-14.7	40.0	6.5	107.0	265.00	VERTICAL
54.600000	31.40	-15.5	40.0	8.6	100.0	244.00	VERTICAL
168.540000	22.20	-11.6	43.5	21.3	179.0	270.00	HORIZONTAL
228.660000	23.80	-10.8	46.0	22.2	144.0	270.00	HORIZONTAL
549.360000	20.10	-1.8	46.0	25.9	200.0	0.00	VERTICAL
820.000000	34.60	0.8	46.0	11.4	159.0	0.00	VERTICAL



Appendix I

Photos of Test Setup

1 Radiated Emission



Radiated Disturbance

2 Radiated Spurious Emission

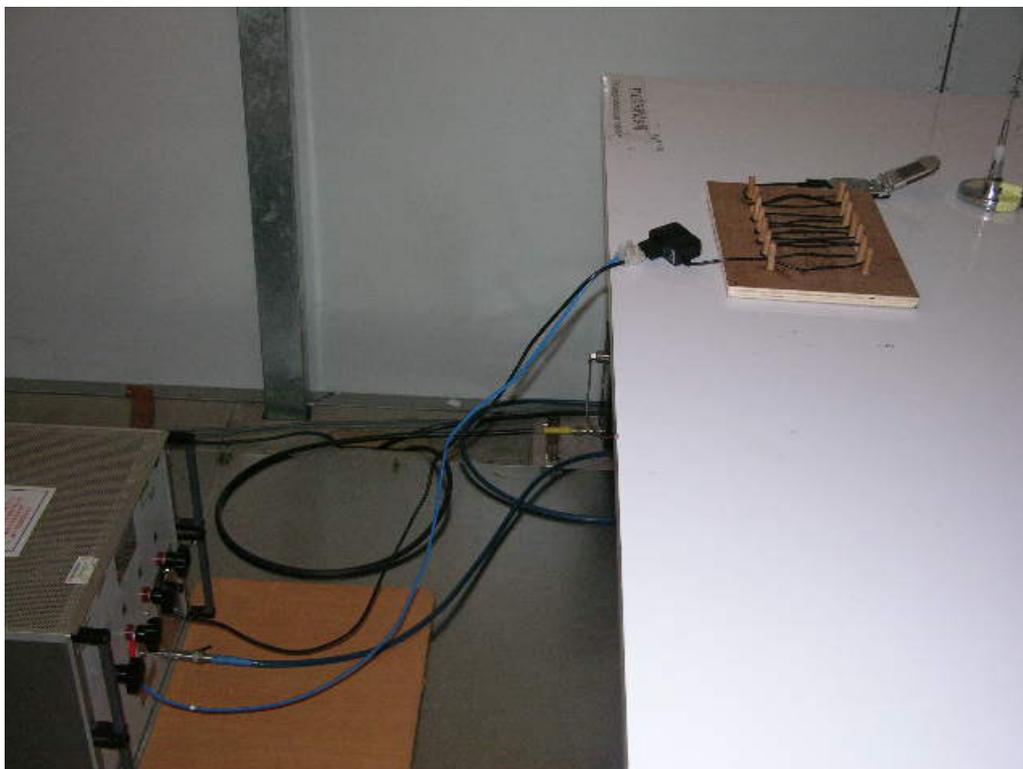


Radiated Spurious Emission (below 1GHz)



Radiated Spurious Emission (above 1GHz)

3 Conducted Emissions



Conducted Emissions for AC Ports