

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 Params		
Max/Min Power Setup ▾		Maximum Power 21.69 dBm Minimum Power -64.51 dBm/1.23 MHz Under Range Single								Cell 1 Power		
										-55.00		
Maximum Power Setup ▾										Cell Band		
										US Cellular		
Minimum Power Setup ▾										Channel		
										1013		
										Protocol Rev		
										6 (IS-2000-0)		
										Radio Config		
										(Fud1, Rvs1)		
										S02 (Loopback)		
										FCH Service Option Setup ▾		
1 of 2				Active Cell Connected		Sys Type: IS-2000		Logging: No Conn.				
				IntRef	Offset	T				1 of 4		

TM3:

Measurement/Instrument Screen												
Control		Maximum/Minimum Power								Call Parm		
Max/Min Power Setup ▾		Maximum Power 21.75 dBm Minimum Power -64.29 dBm/1.23 MHz Under Range Single								Cell 1 Power		
										-55.00		
Maximum Power Setup ▾										dBm/1.23 MHz		
										Cell Band		
										US Cellular		
Minimum Power Setup ▾										Channel		
										1013		
										Protocol Rev		
										6 (IS-2000-0)		
										Radio Config		
										(Fud3, Rvs3)		
										S055 (Loopback)		
										FCH Service Option Setup ▾		
				Active Cell Connected				Sys Type: IS-2000				
								Logging: No Conn.				
1 of 2					IntRef	Offset	T				1 of 4	

Channel 283

TM1:

Measurement/Instrument Screen												
Control		Maximum/Minimum Power								Call Params		
Max/Min Power Setup ▾		Maximum Power21.60dBm Minimum Power-64.02dBm/1.23 MHz Under RangeSingle								Cell 1 Power		
										-55.00		
Maximum Power Setup ▾										dBm/1.23 MHz		
										Cell Band		
										US Cellular		
Minimum Power Setup ▾										Channel		
										283		
1 of 2										Protocol Rev		
										6 (IS-2000-0)		
										Radio Config		
										(Fud1, Rvs1)		
										S02 (Loopback)		
										FCH Service Option Setup ▾		
										</		

TM3:

Measurement/Instrument Screen													
Control		Maximum/Minimum Power								Call Parm			
Max/Min Power Setup ▾		Maximum Power 21.53 dBm Minimum Power -64.10 dBm/1.23 MHz Under Range Single								Cell 1 Power			
										-55.00			
Maximum Power Setup ▾										dBm/1.23 MHz			
										Cell Band			
										US Cellular			
Minimum Power Setup ▾										Channel			
										283			
1 of 2										Protocol Rev			
										6 (IS-2000-0)			
										Radio Config			
										(Fud3, Rvs3)			
										S055 (Loopback)			
										FCH Service Option Setup ▾			
				Active Cell Connected				Sys Type: IS-2000					
								Logging: No Conn.					
1 of 2					IntRef	Offset	T				1 of 4		

Channel 777

TM1:

Measurement/Instrument Screen												
Control		Maximum/Minimum Power								Call Params		
Max/Min Power Setup ▾		Maximum Power21.58dBm Minimum Power-63.61dBm/1.23 MHz Under RangeSingle								Cell 1 Power		
										-55.00		
Maximum Power Setup ▾										dBm/1.23 MHz		
										Cell Band		
										US Cellular		
Minimum Power Setup ▾										Channel		
										777		
1 of 2										Protocol Rev		
										6 (IS-2000-0)		
										Radio Config		
										(Fud1, Rvs1)		
										S02 (Loopback)		
												FCH Service Option Setup ▾
				Active Cell Connected				Sys Type: IS-2000				
				Logging: No Conn.								
1 of 2					IntRef	Offset	T				1 of 4	

TM3:

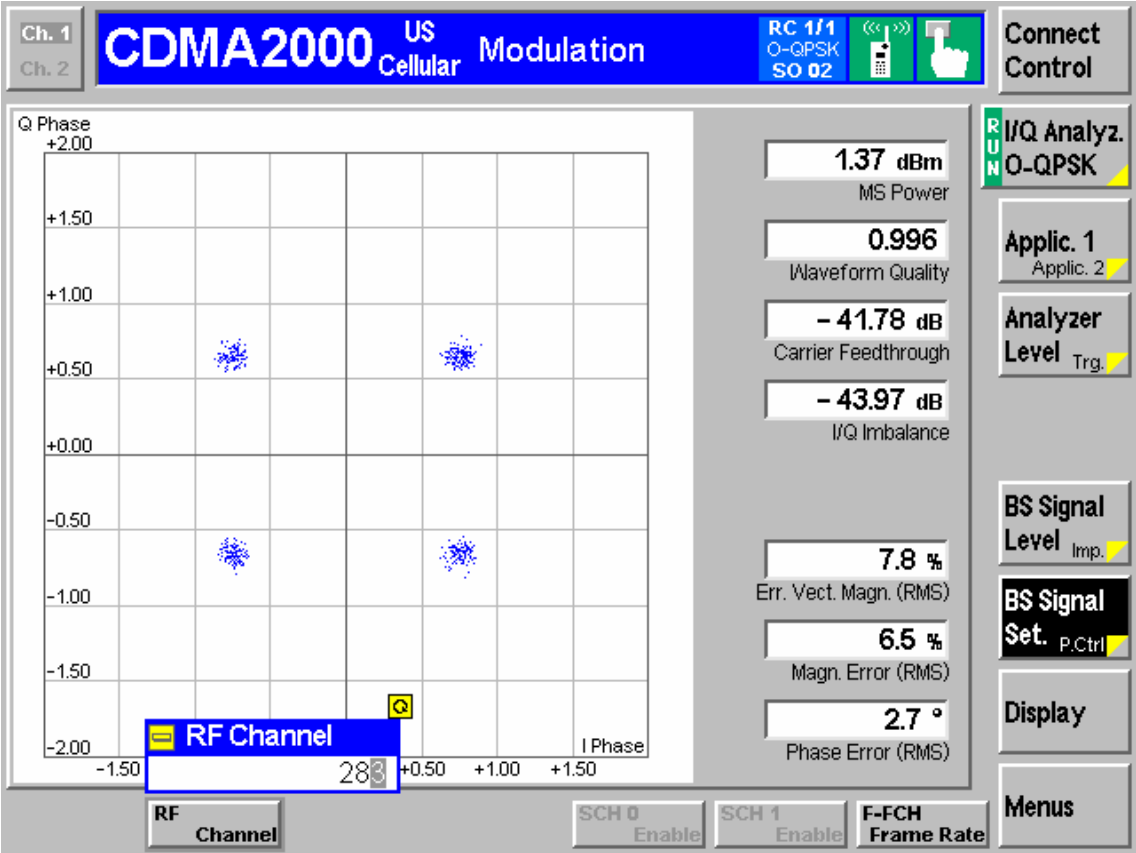
Measurement/Instrument Screen												
Control		Maximum/Minimum Power								Call Params		
Max/Min Power Setup ▾		Maximum Power 21.66 dBm Minimum Power -63.27 dBm/1.23 MHz Under Range Single								Cell 1 Power		
										-55.00		
Maximum Power Setup ▾										Cell Band		
										US Cellular		
Minimum Power Setup ▾										Channel		
										777		
1 of 2										Protocol Rev		
										6 (IS-2000-0)		
										Radio Config		
										(Fud3, Rvs3)		
										S055 (Loopback)		
										FCH Service Option Setup ▾		

Appendix B

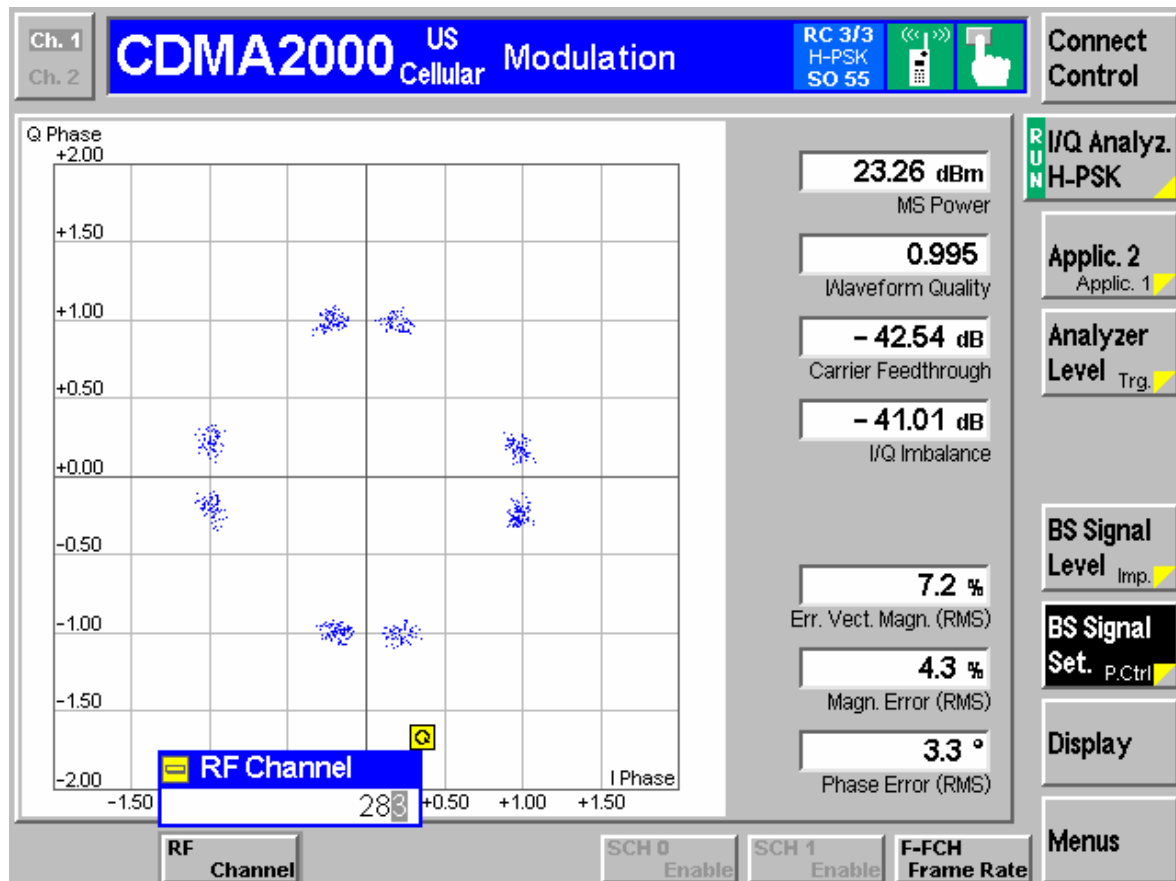
Modulation Characteristics

According to FCC Part 2.1047 & Part22 Subpart H

Channel 283 (TM1)



Channel 283 (TM3)

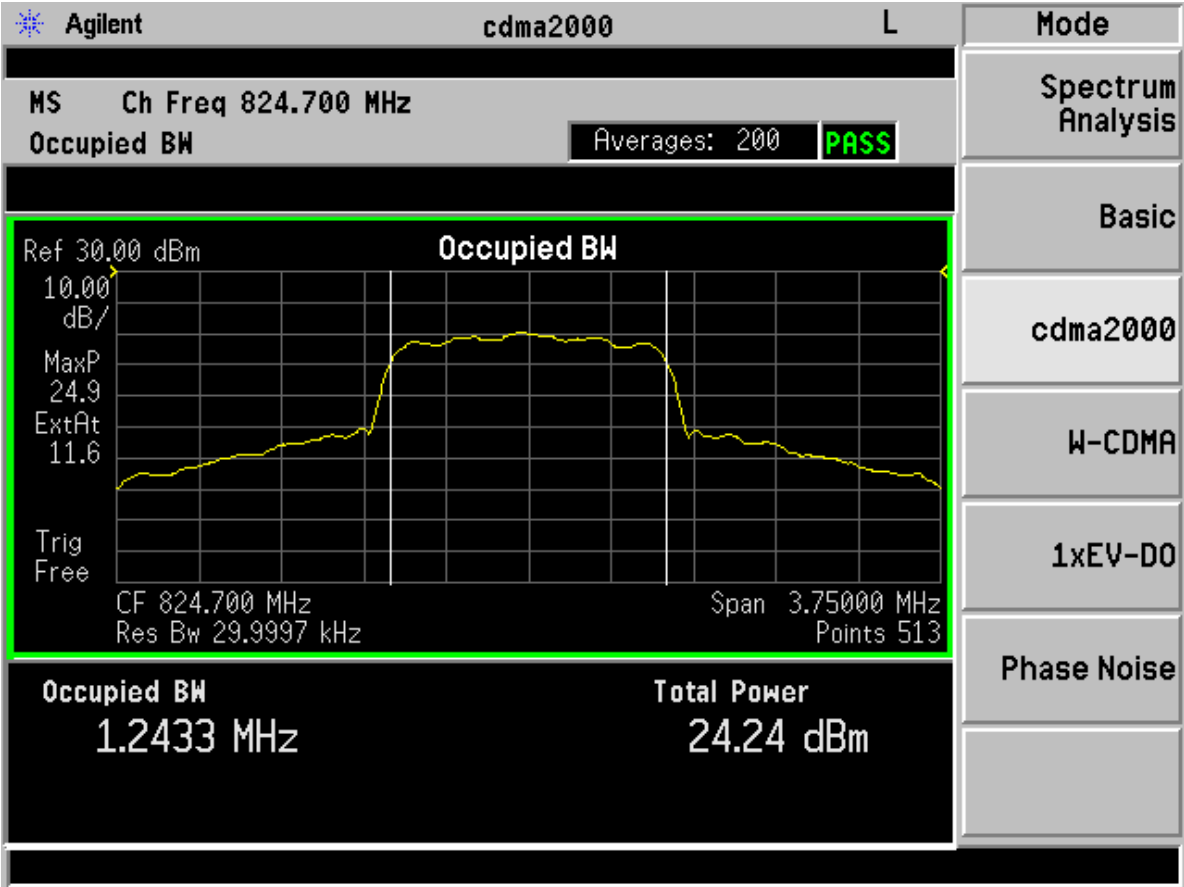


Appendix C

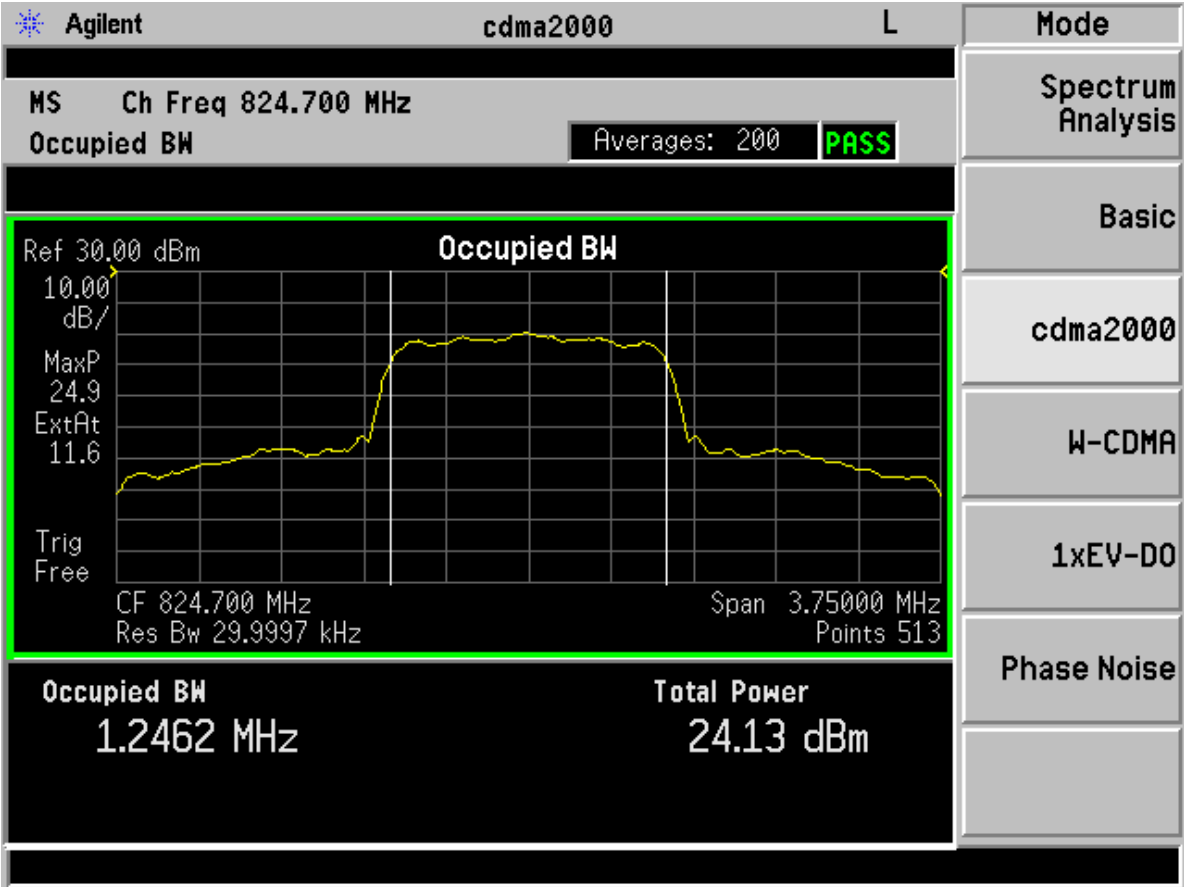
Occupied Bandwidth

According to FCC Part 2.1049 & Part 22 Subpart H

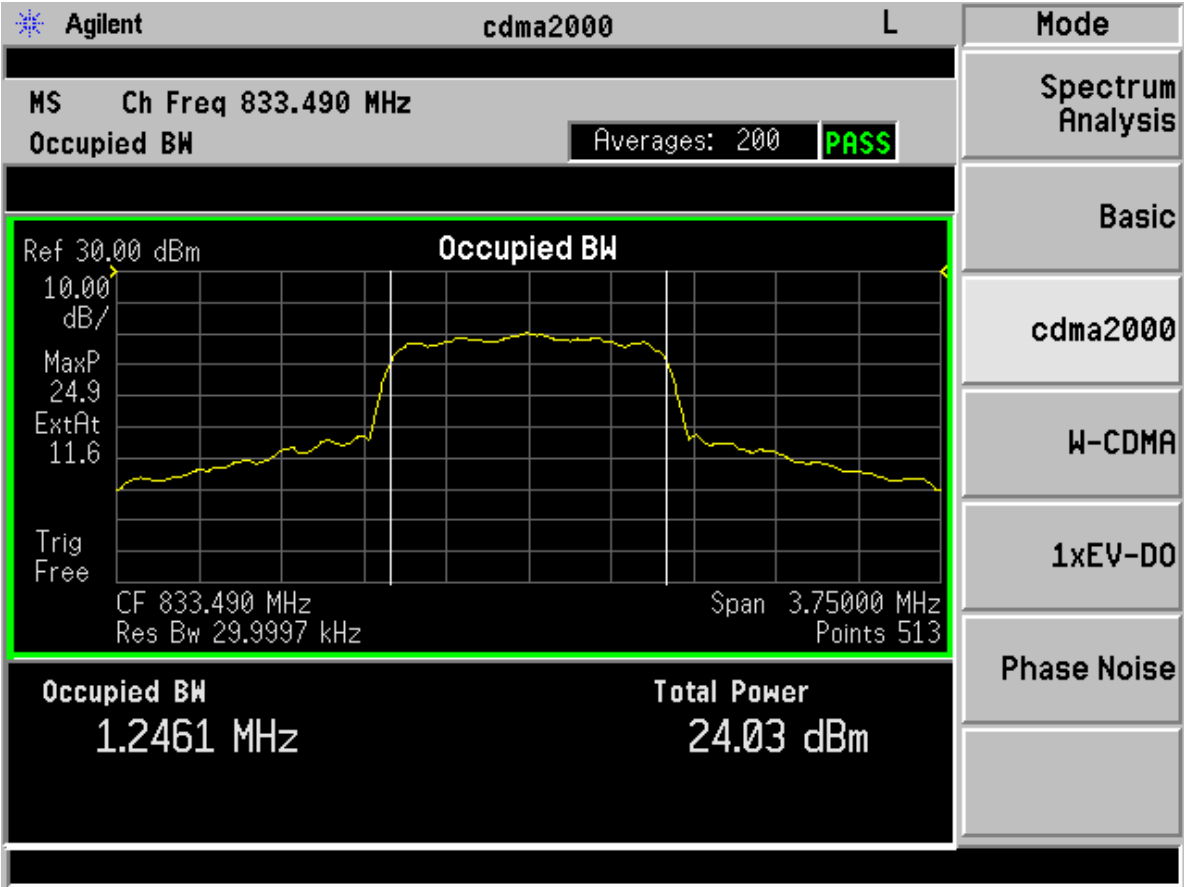
Channel 1013 (TM1)



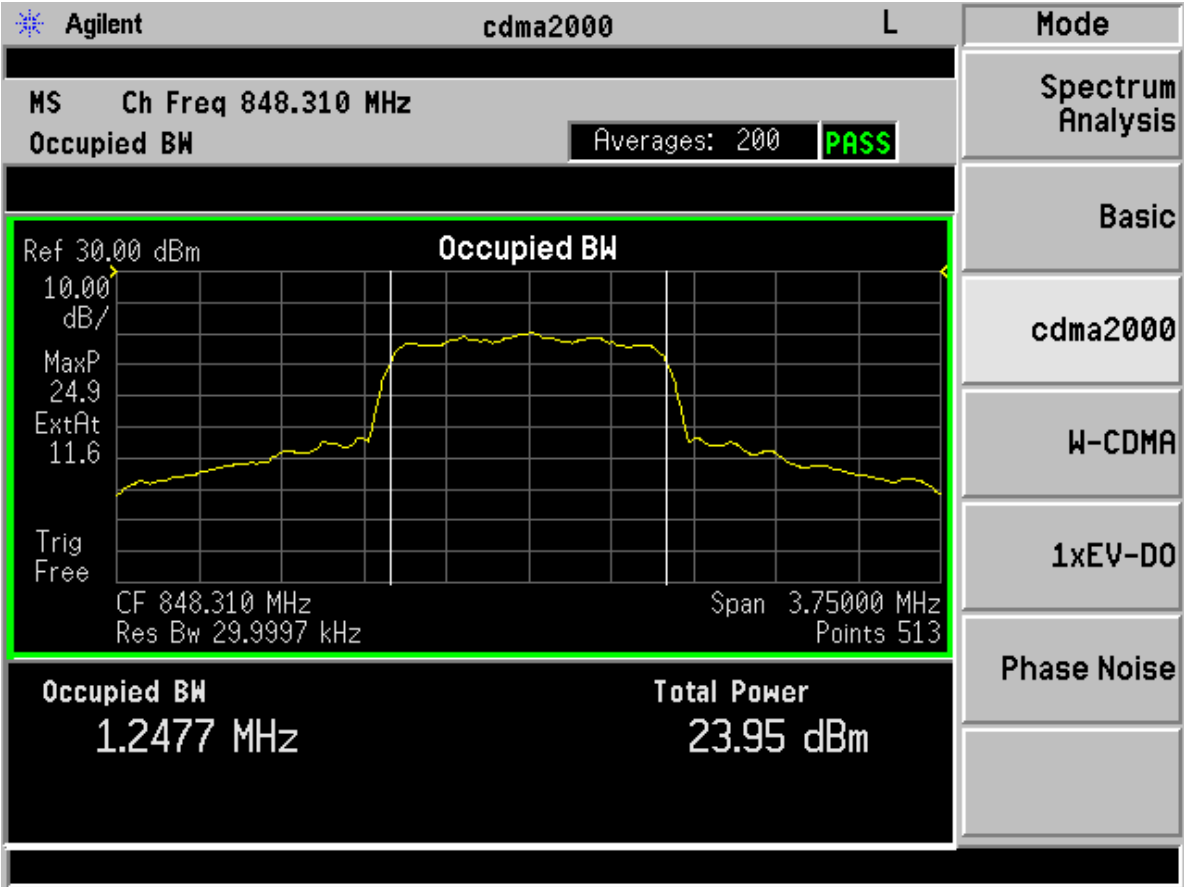
Channel 1013 (TM3)



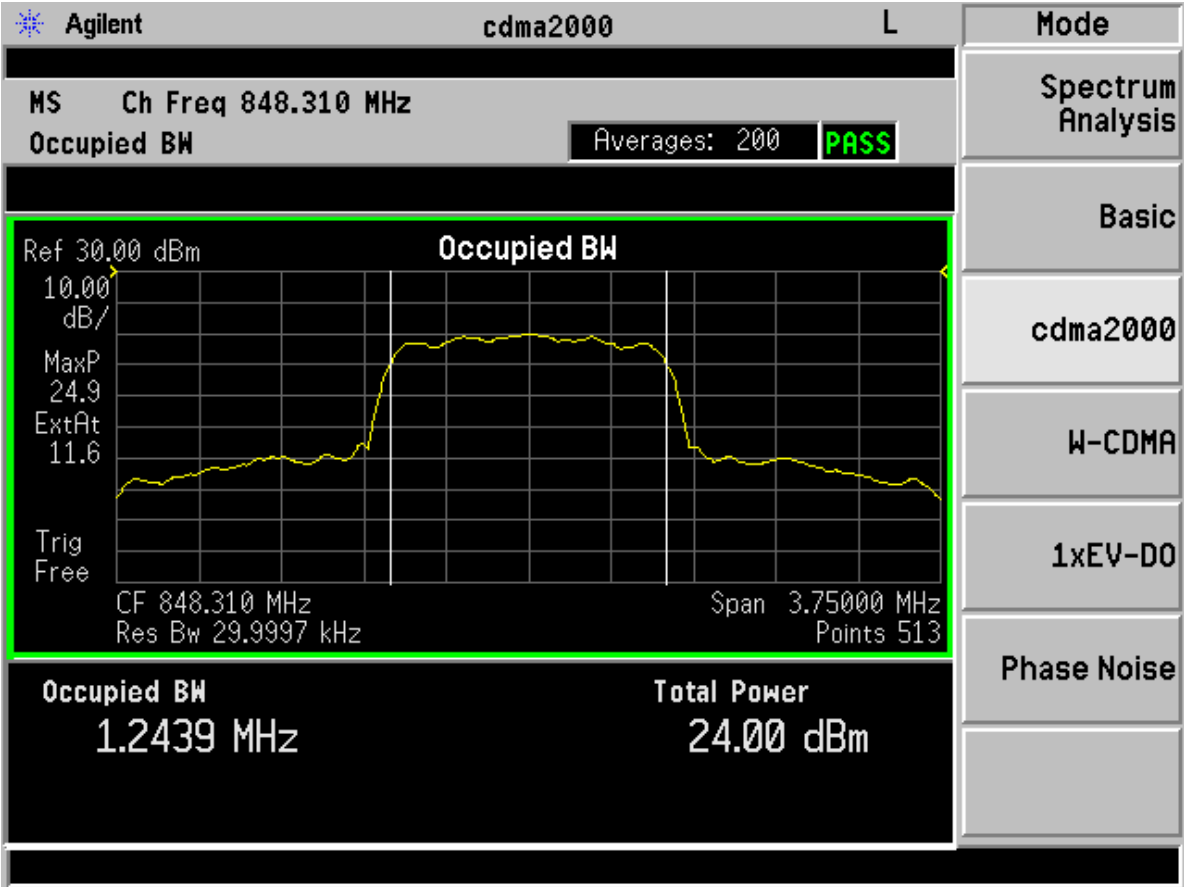
Channel 283 (TM1)



Channel 777 (TM1)



Channel 777 (TM3)

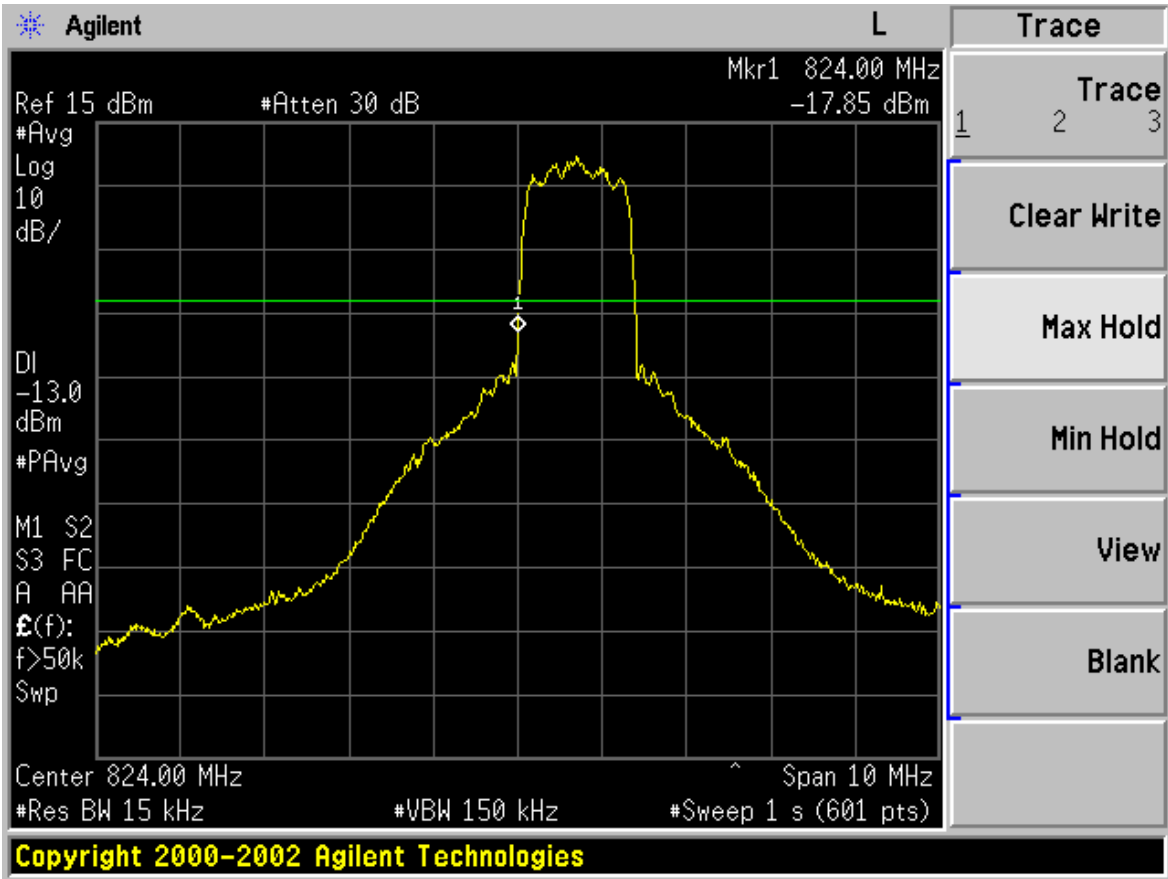


Appendix D

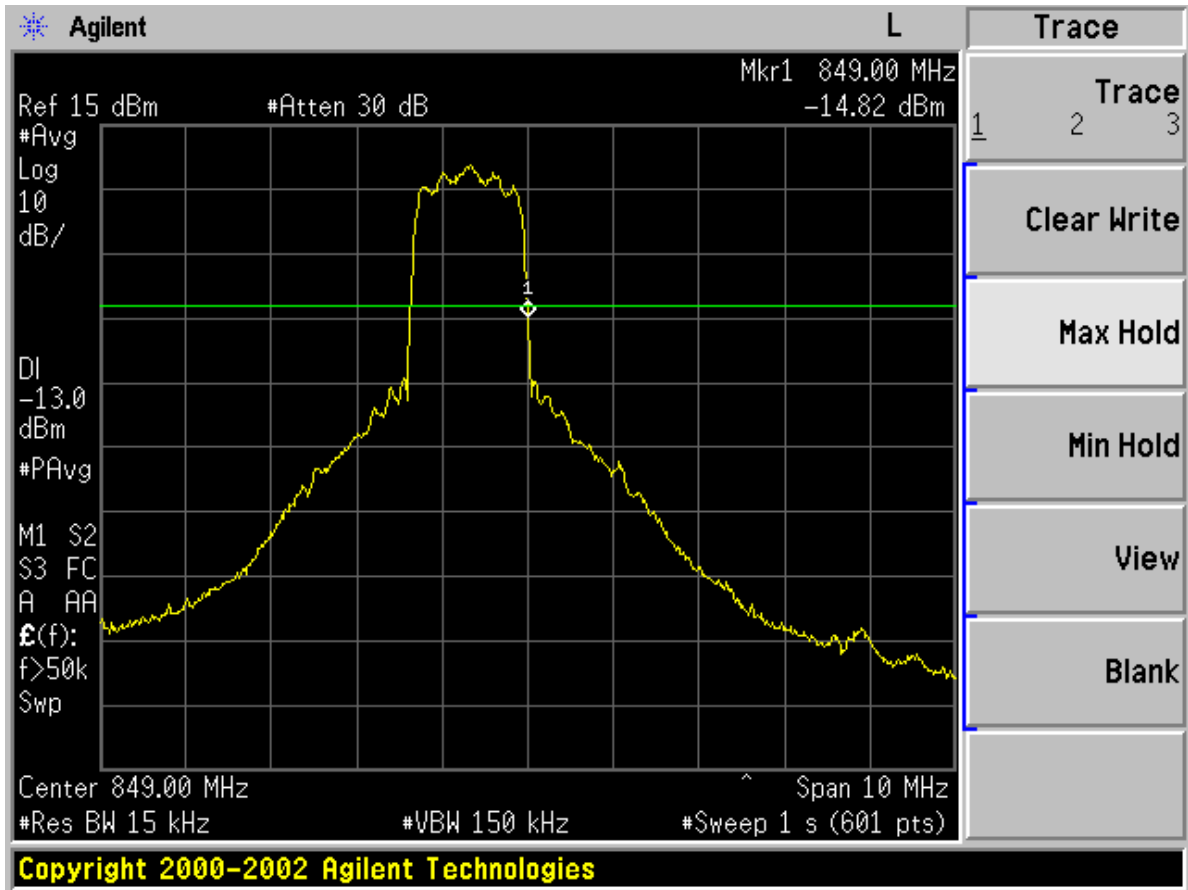
Band Edges Compliance According to FCC part 2.1051 & 22.917

TM1

Left Edge (824 MHz)
Channel 1013

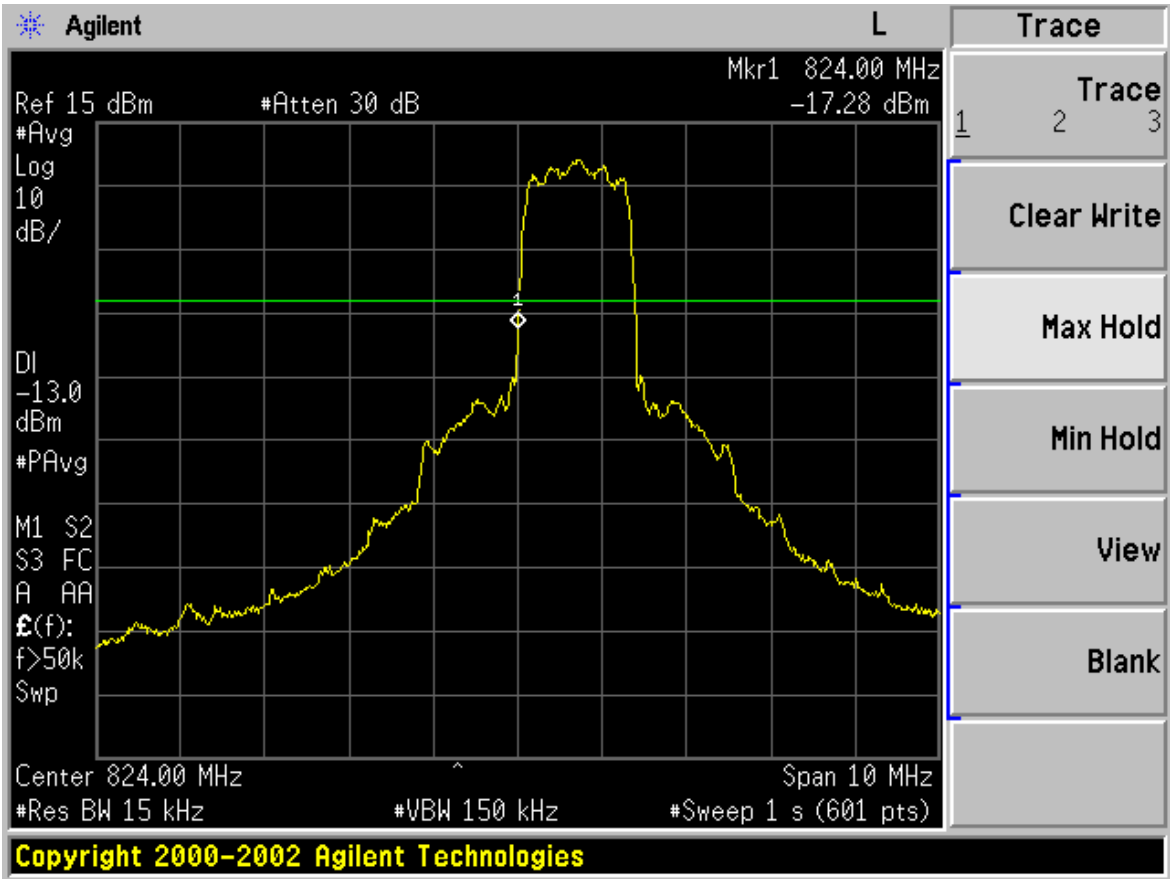


Right Edge (849 MHz)
Channel 777

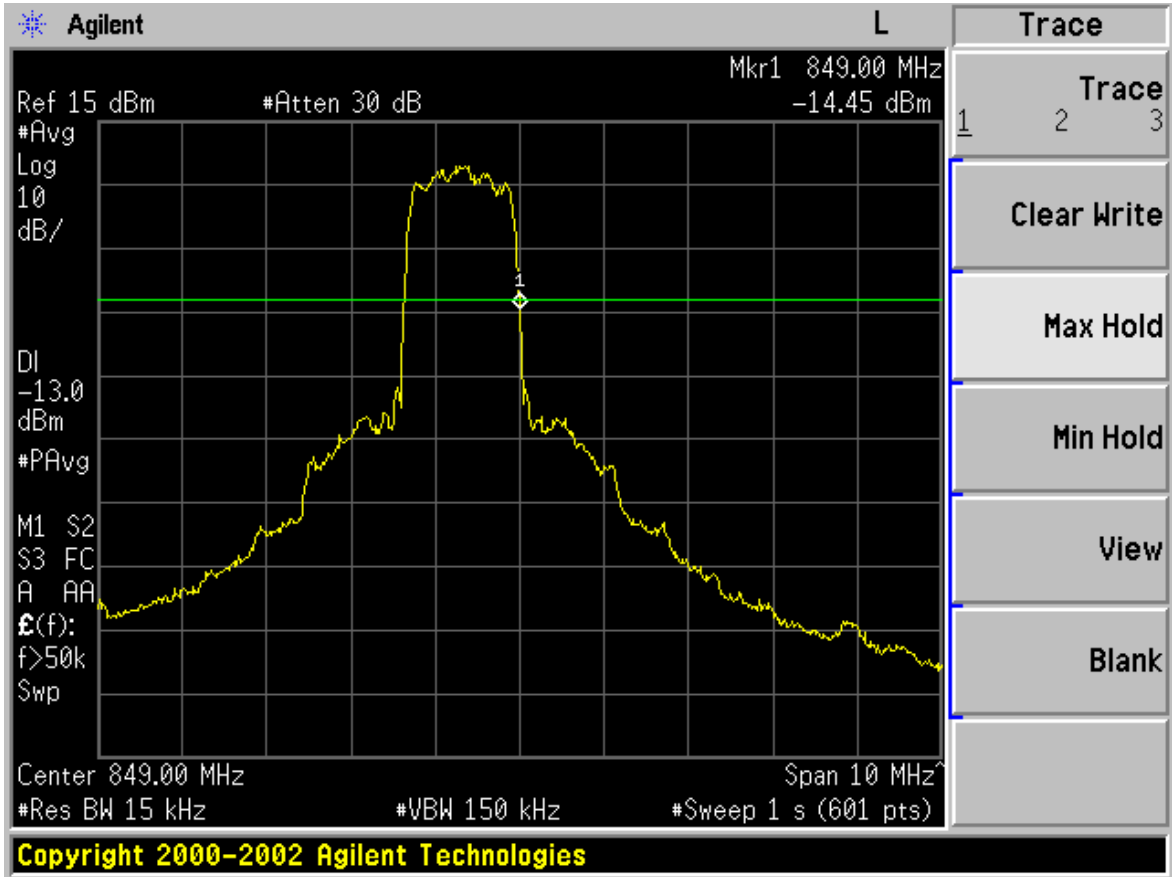


TM3

Left Edge (824 MHz)
Channel 1013



Right Edge (849 MHz)
Channel 777



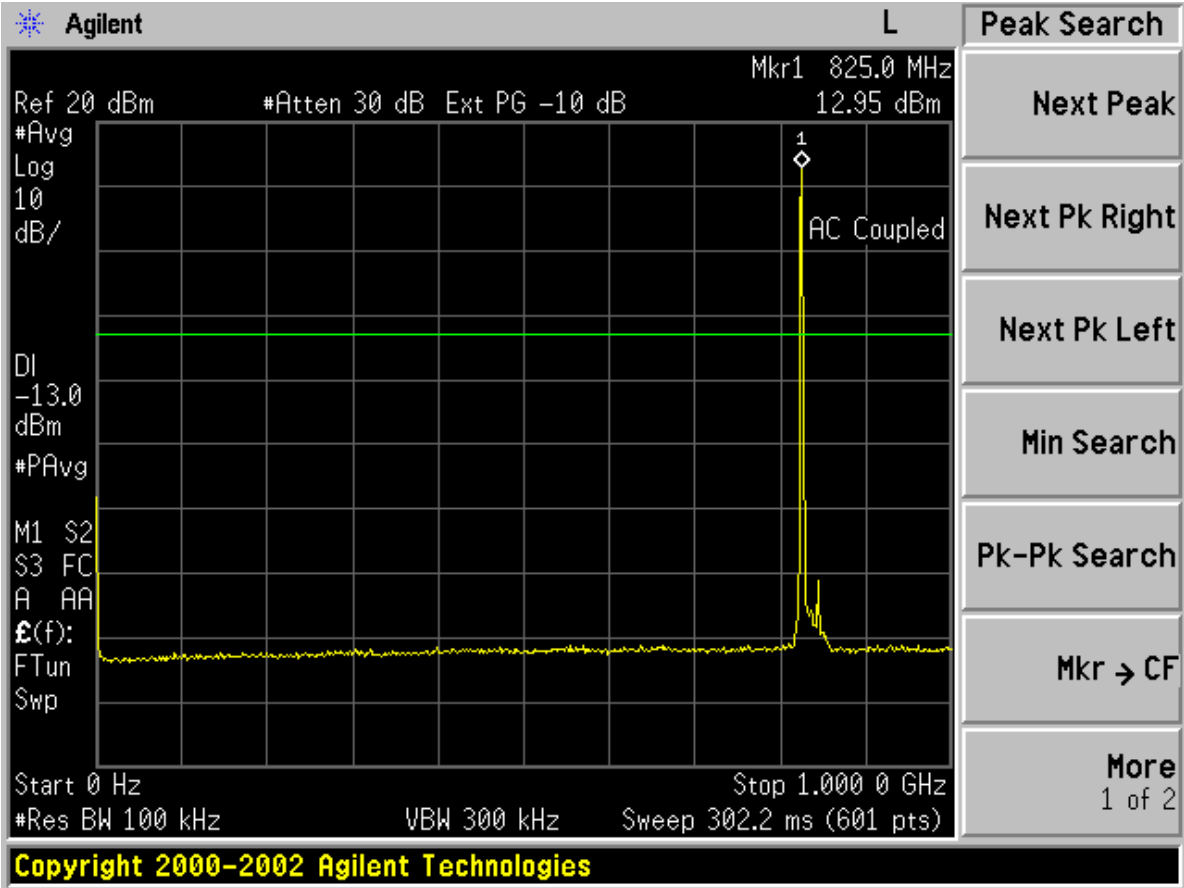
Appendix E

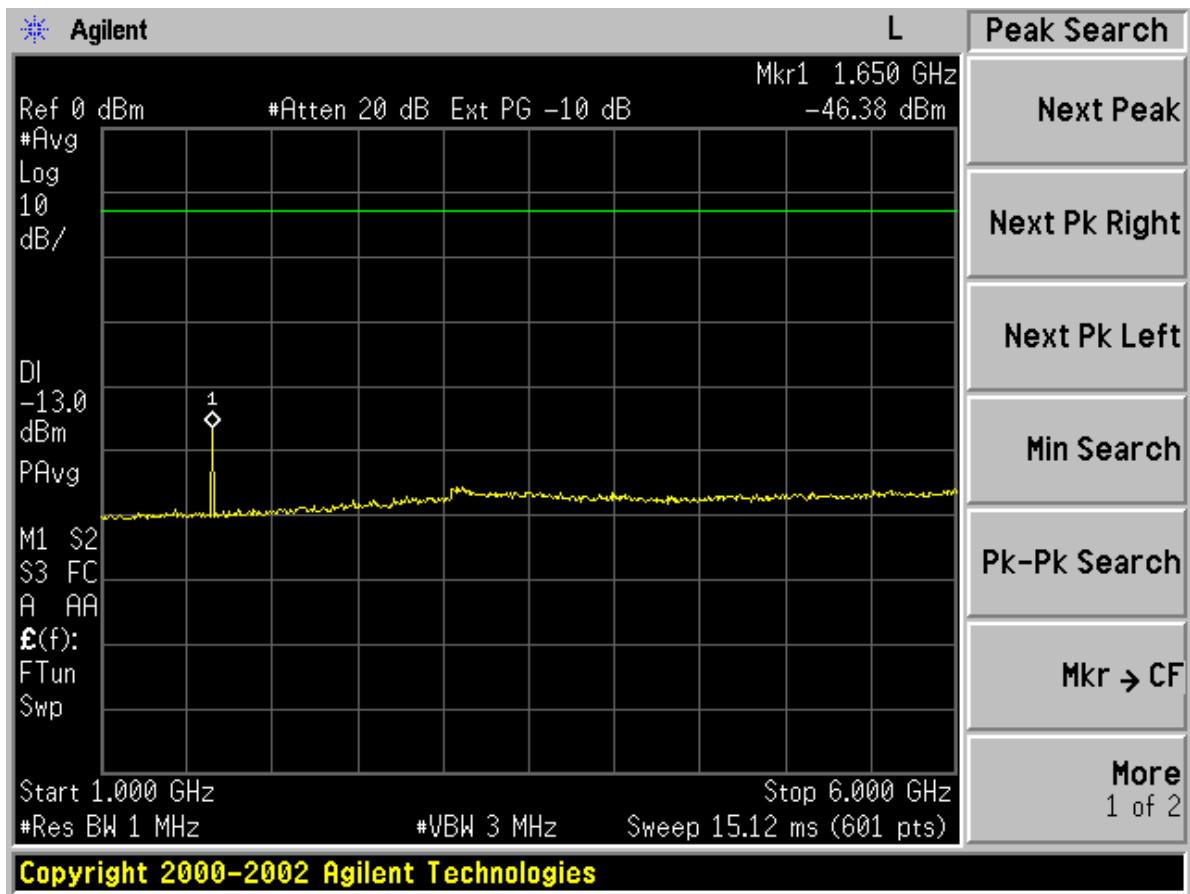
Spurious Emission at Antenna Terminal

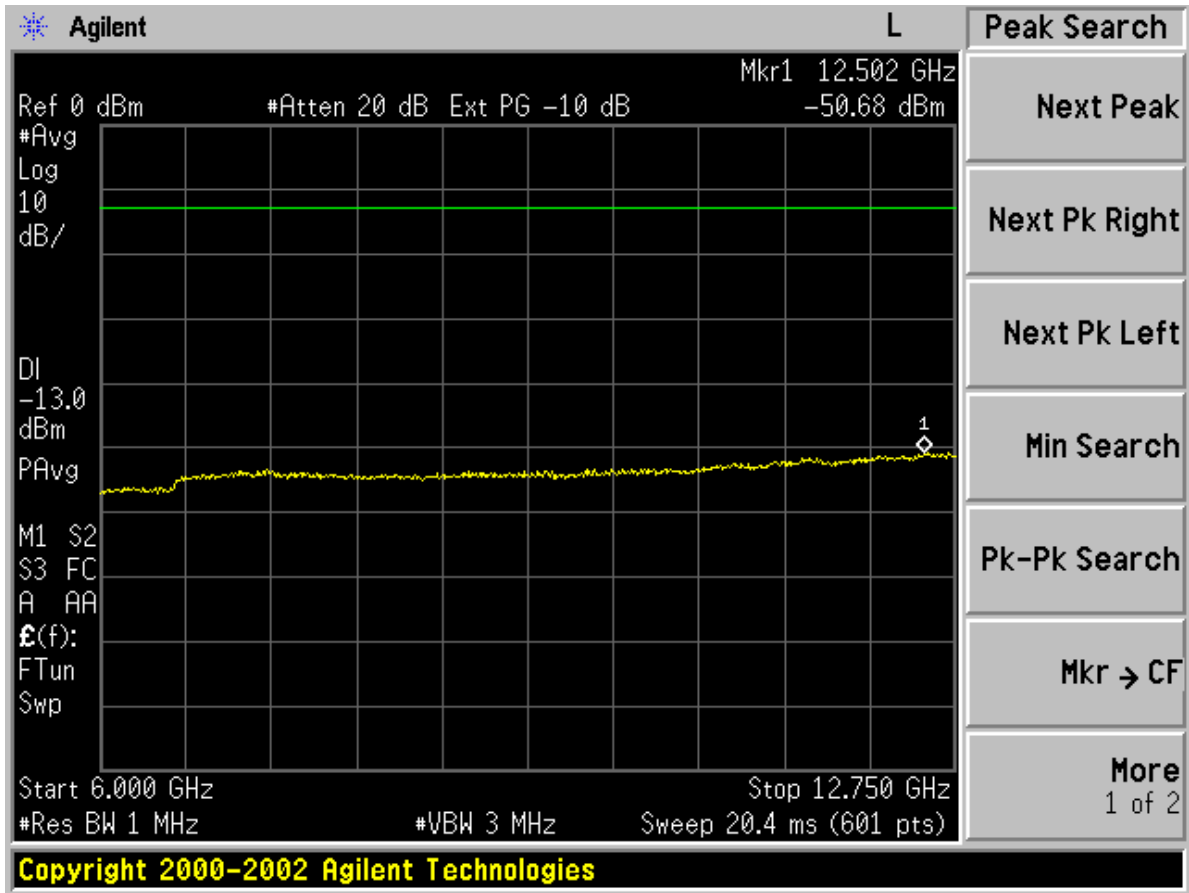
According to FCC Part 2.1051 & 22.917

1.1 TM1

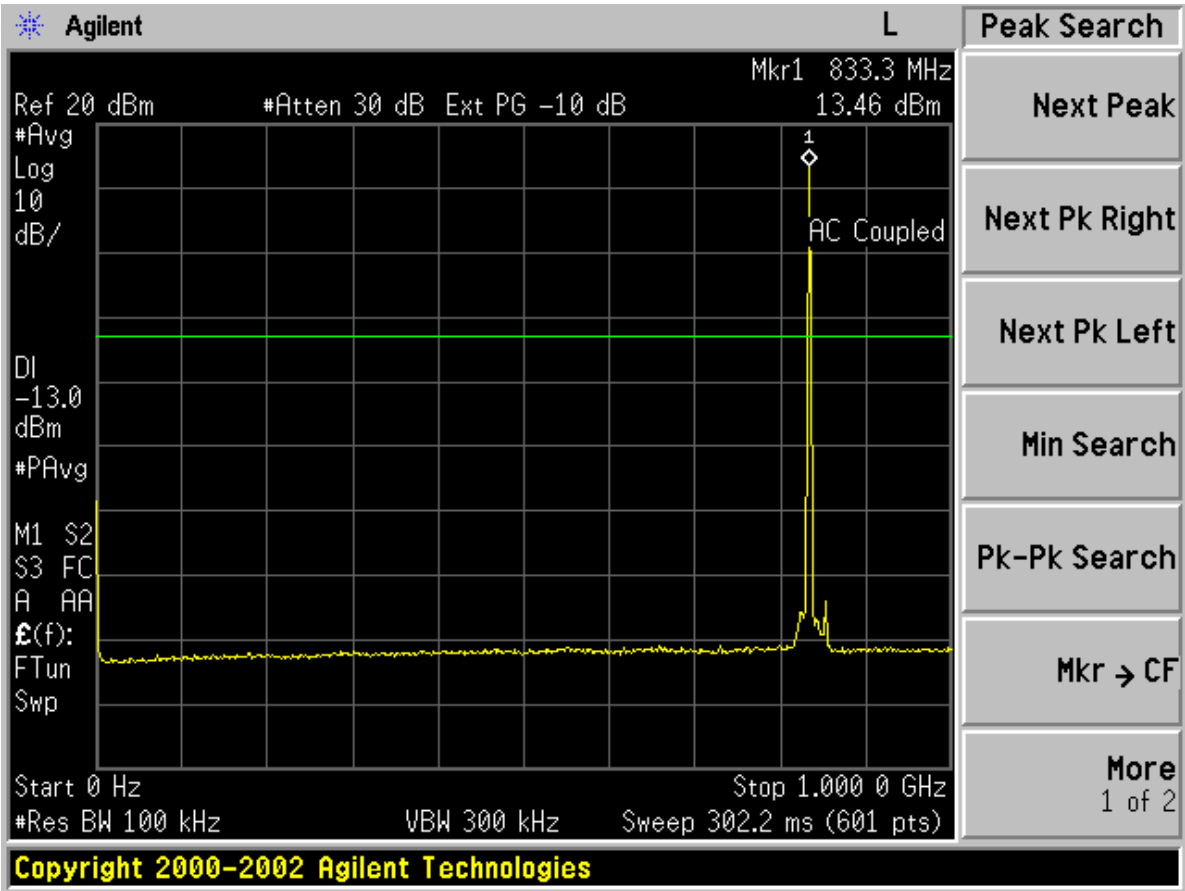
Channel 1013

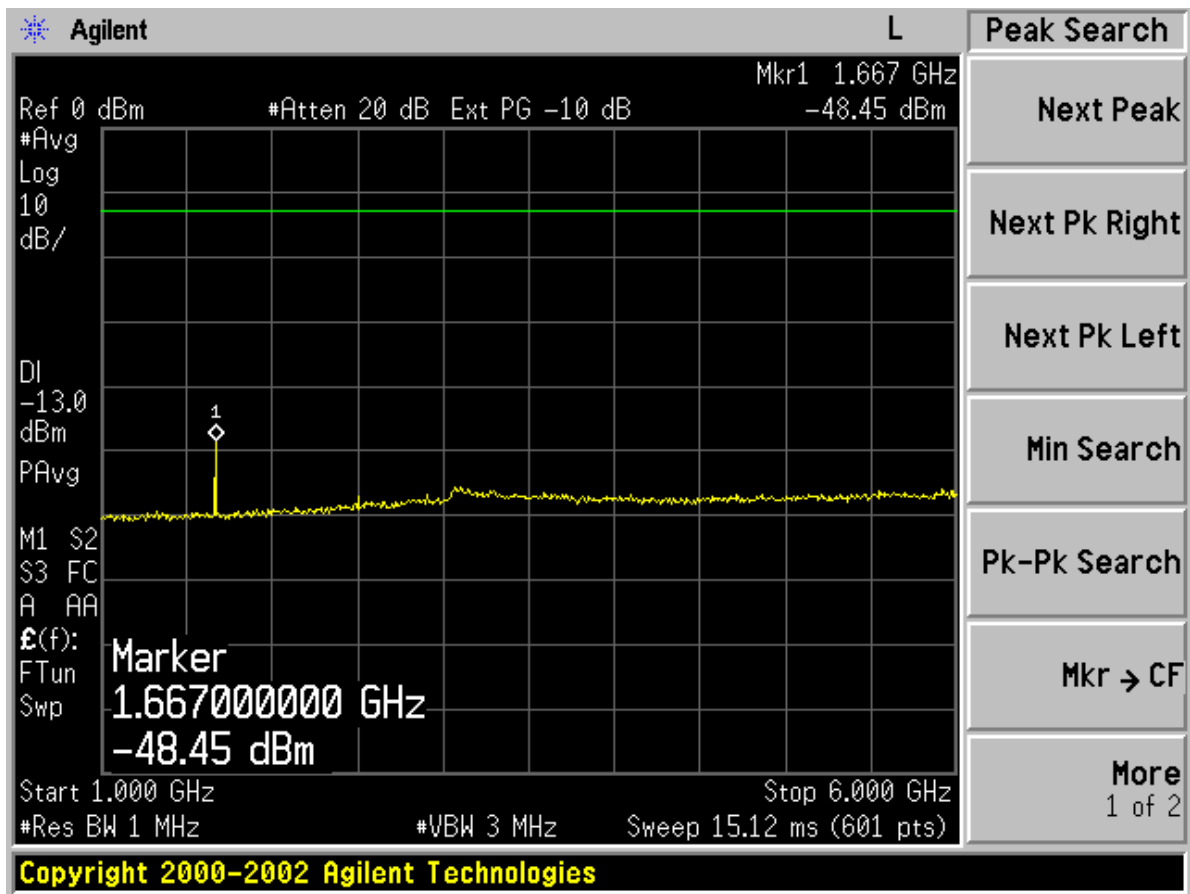


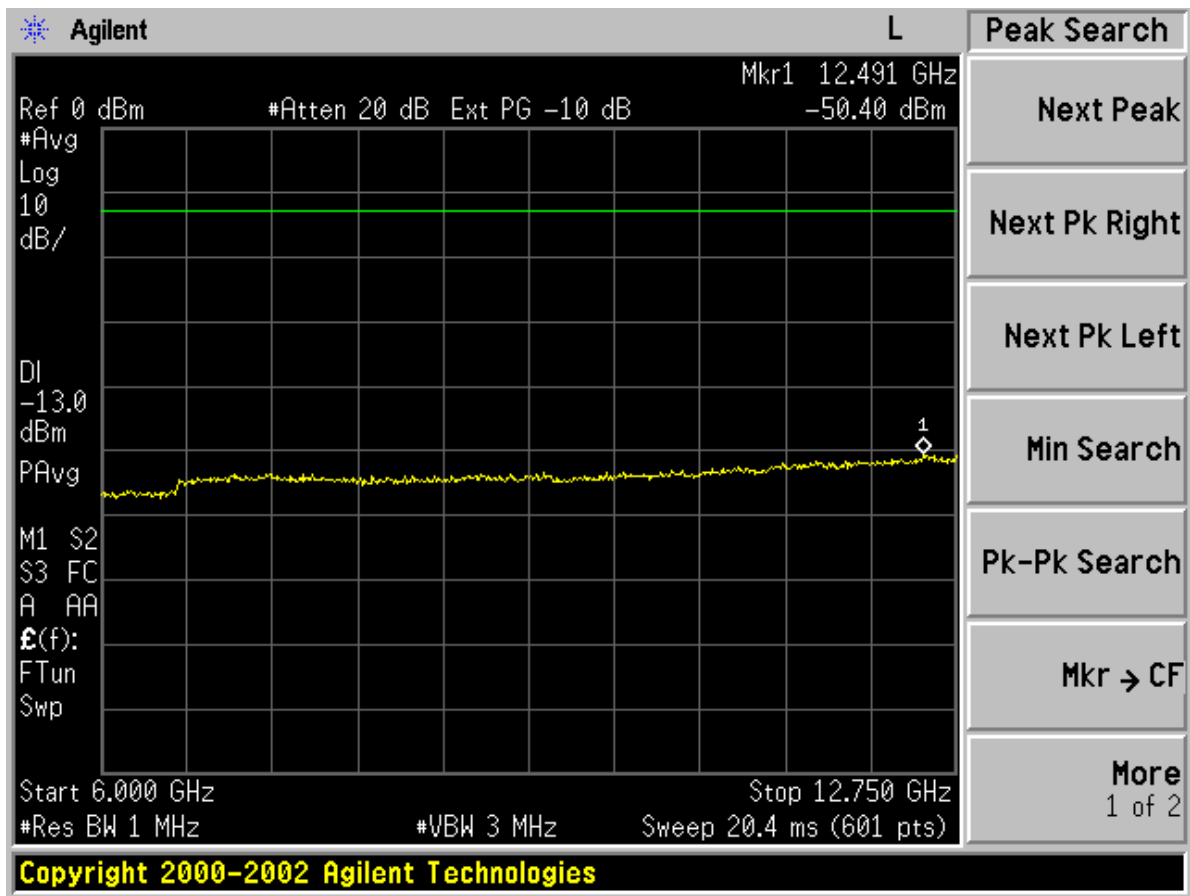




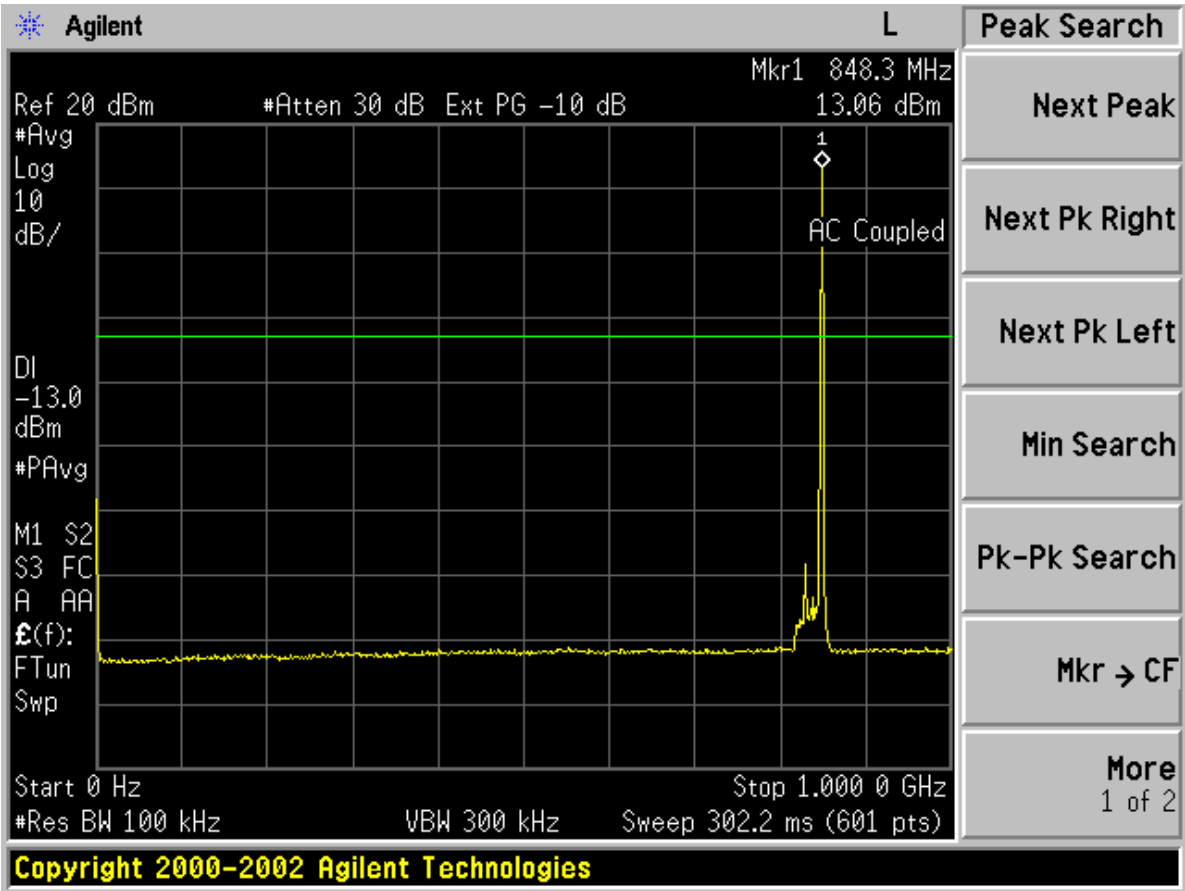
Channel 283

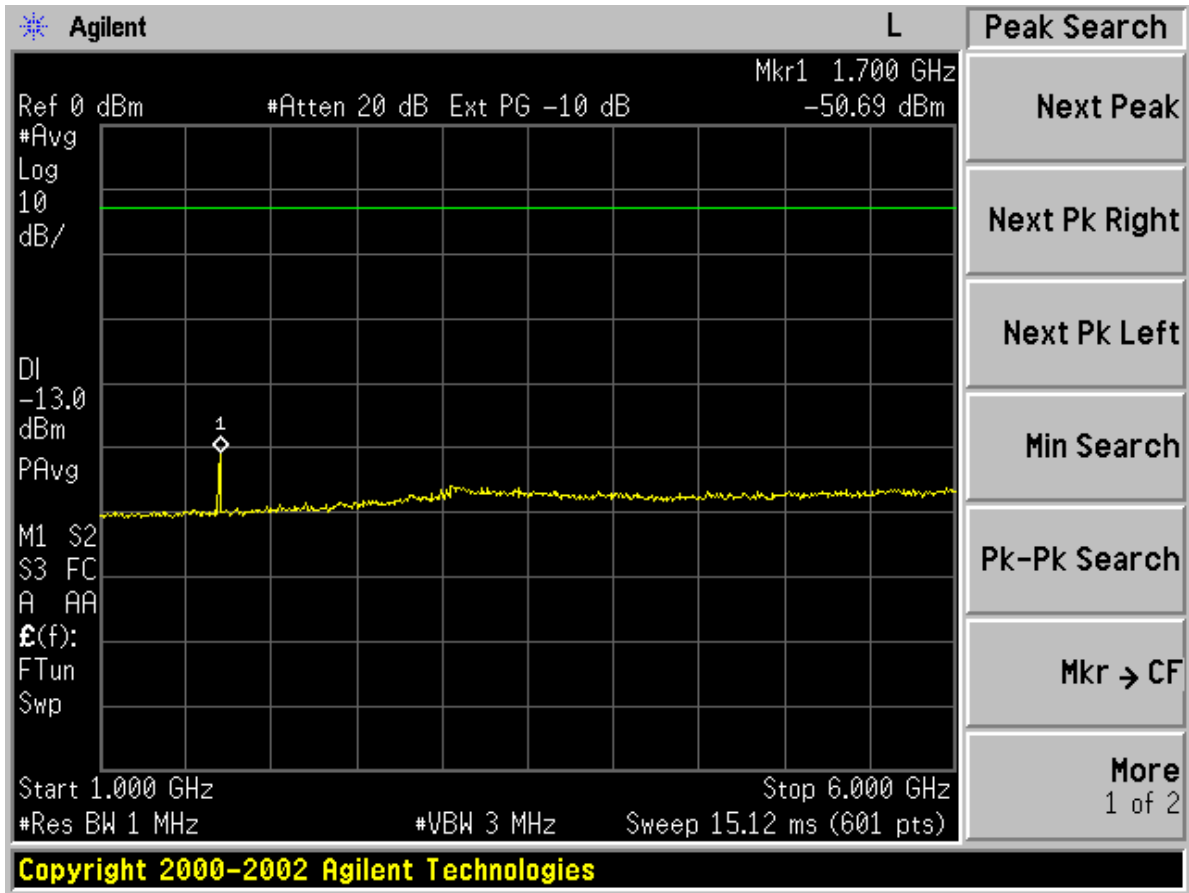


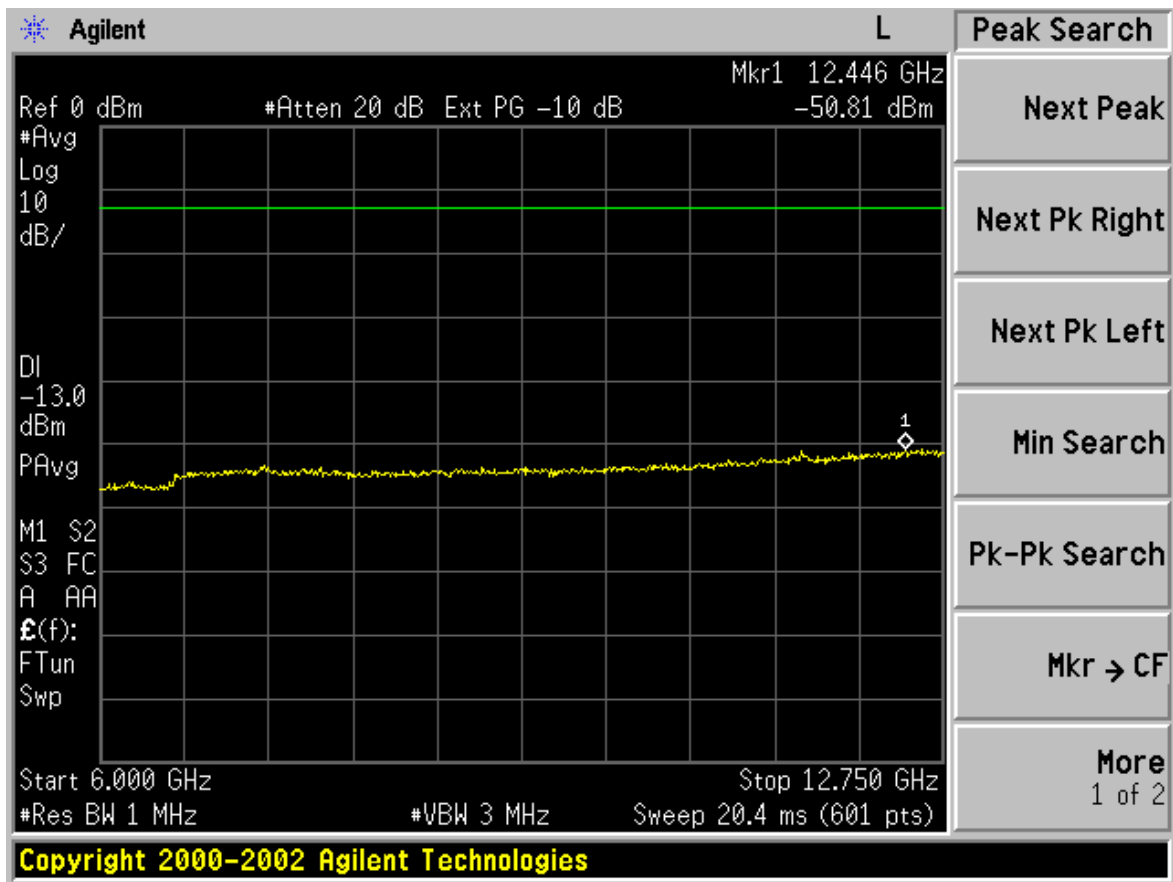




Channel 777

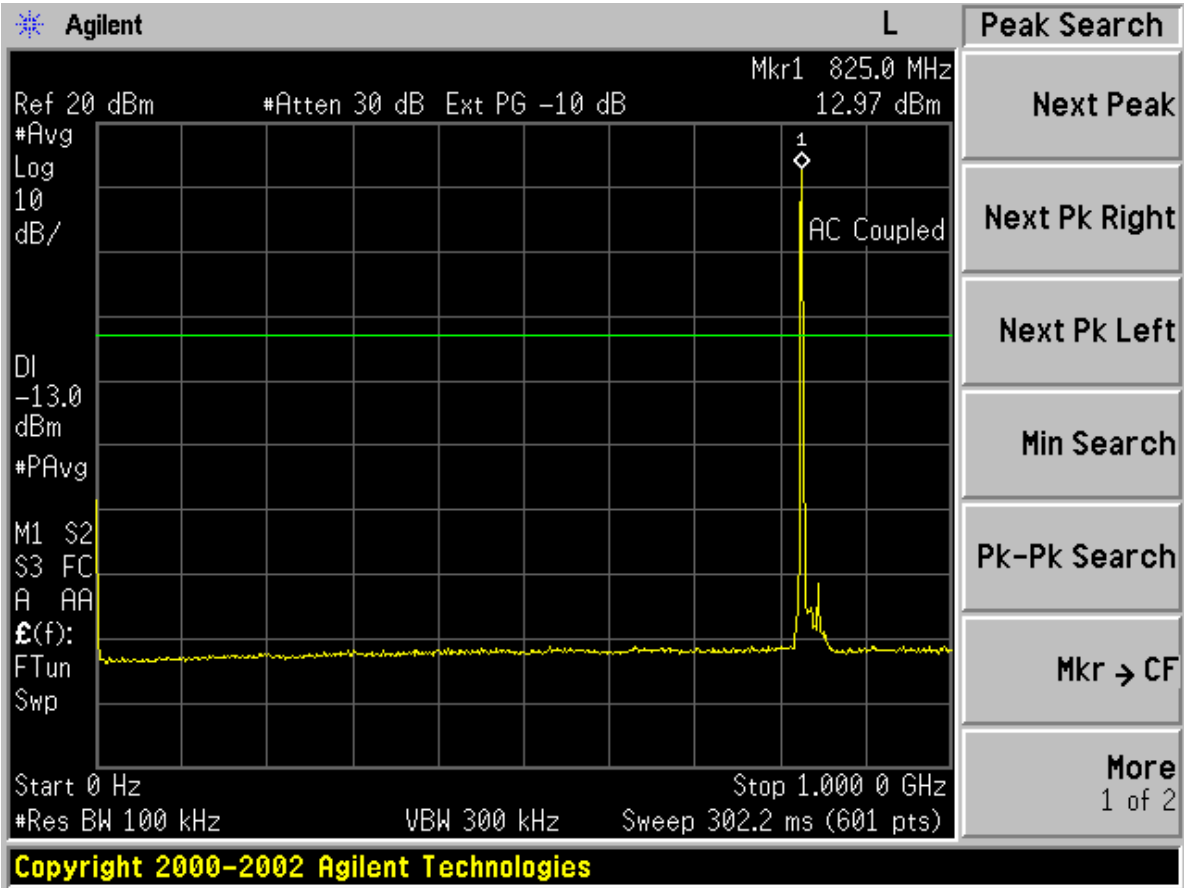


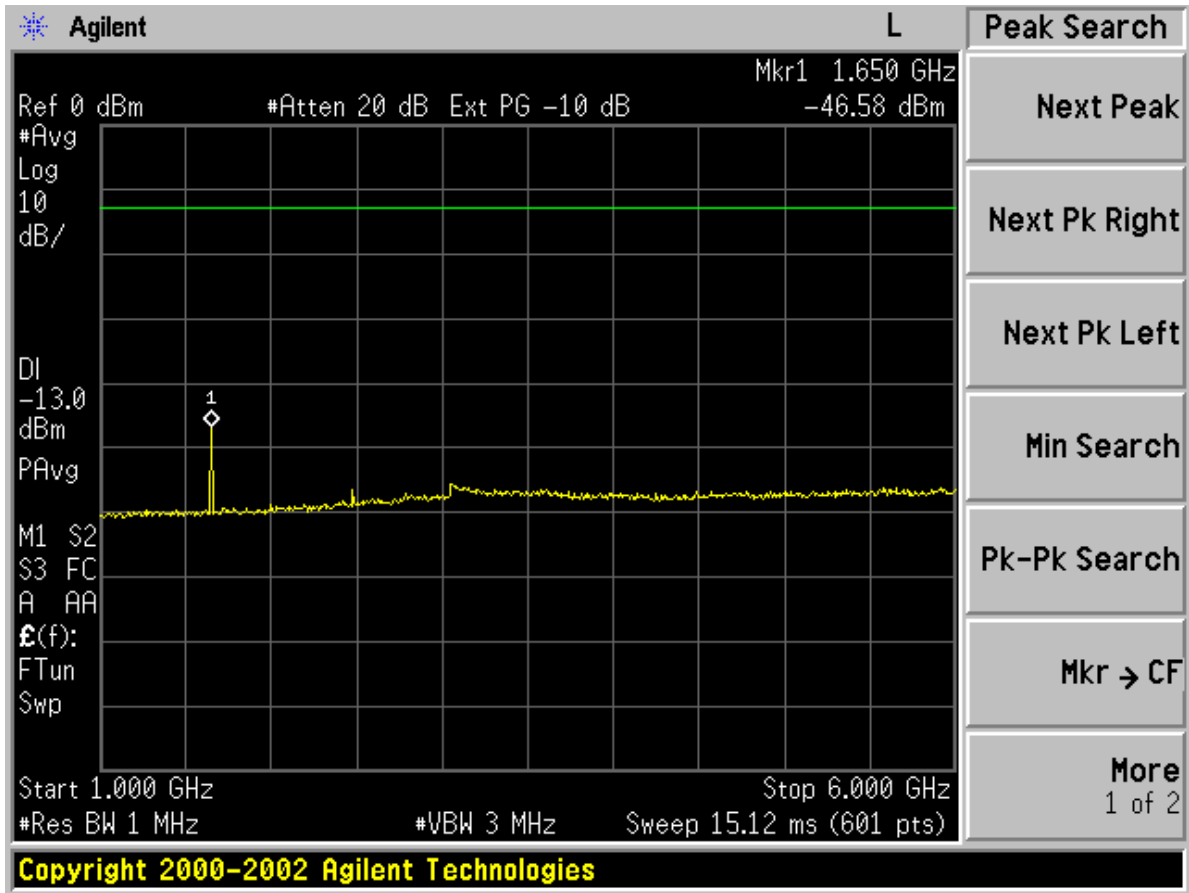


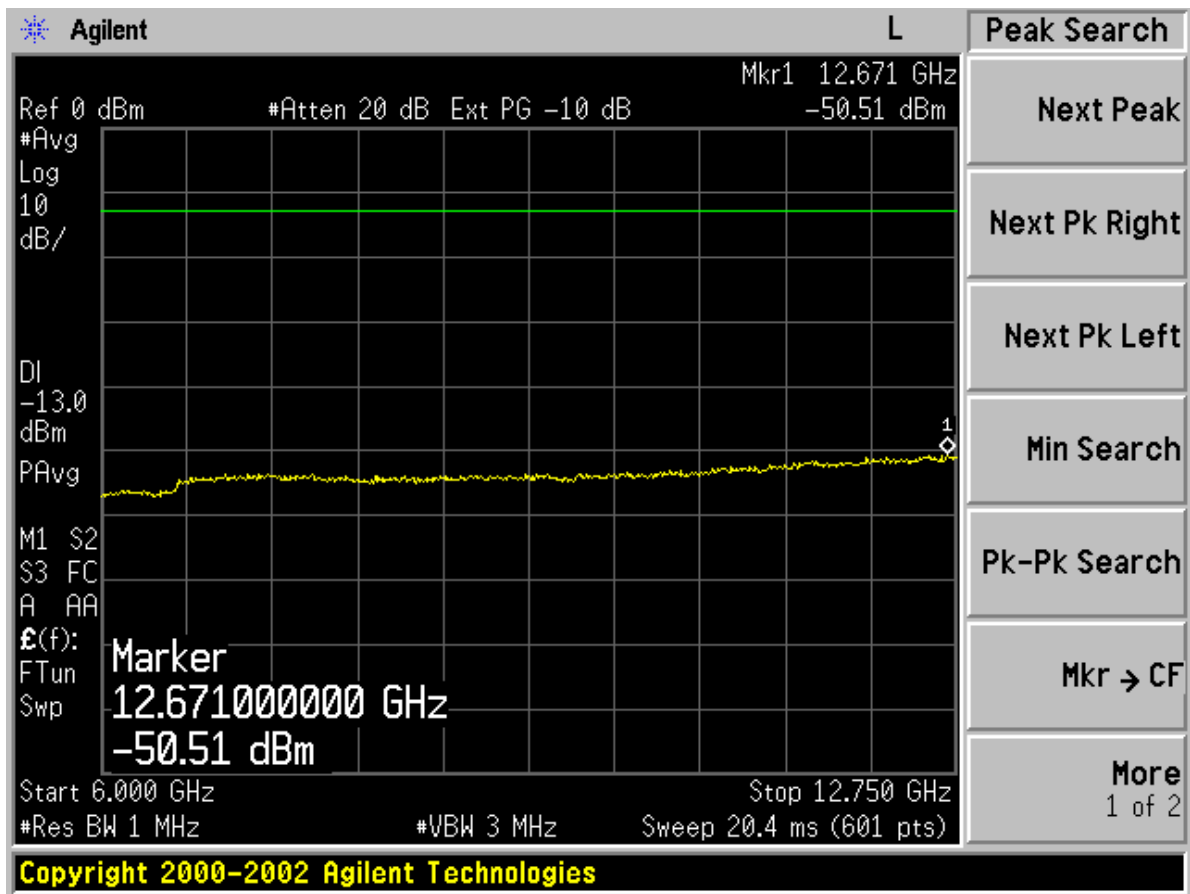


1.2 TM3

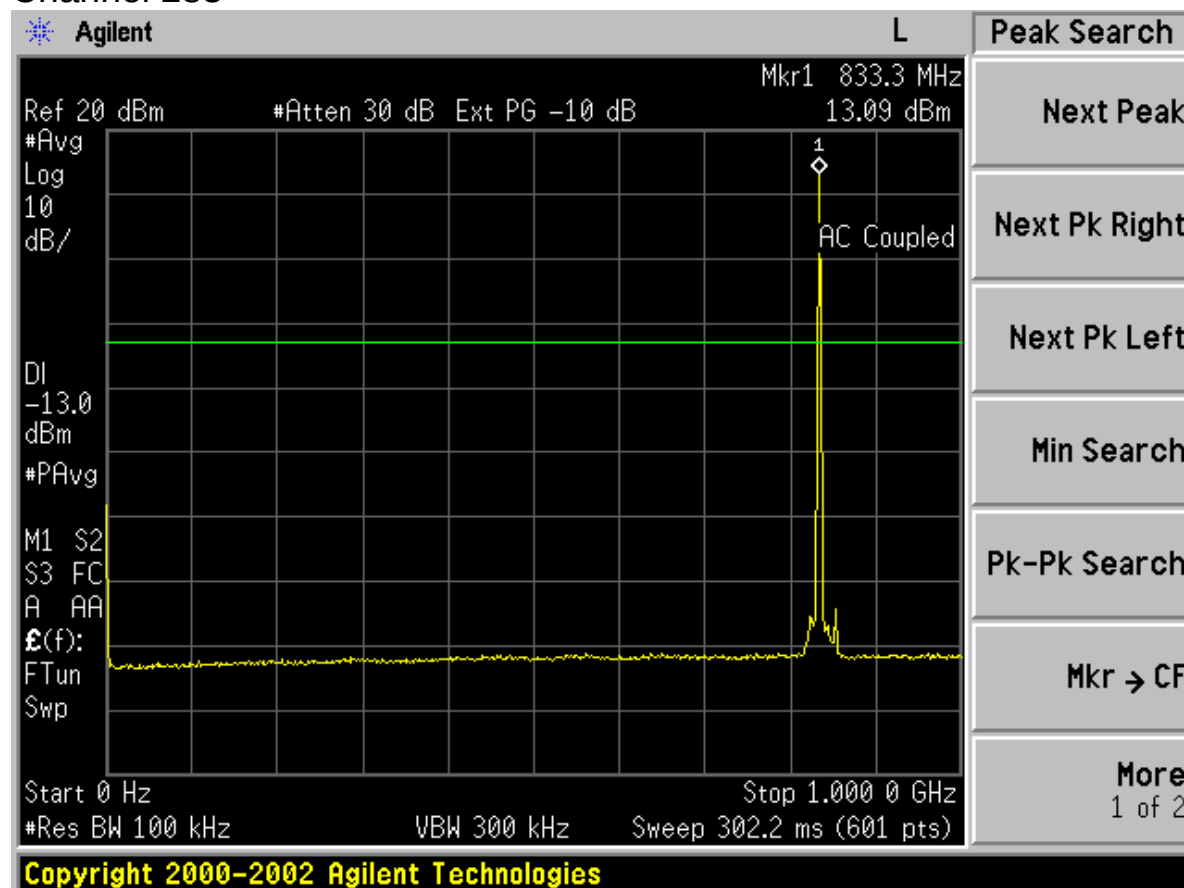
Channel 1013

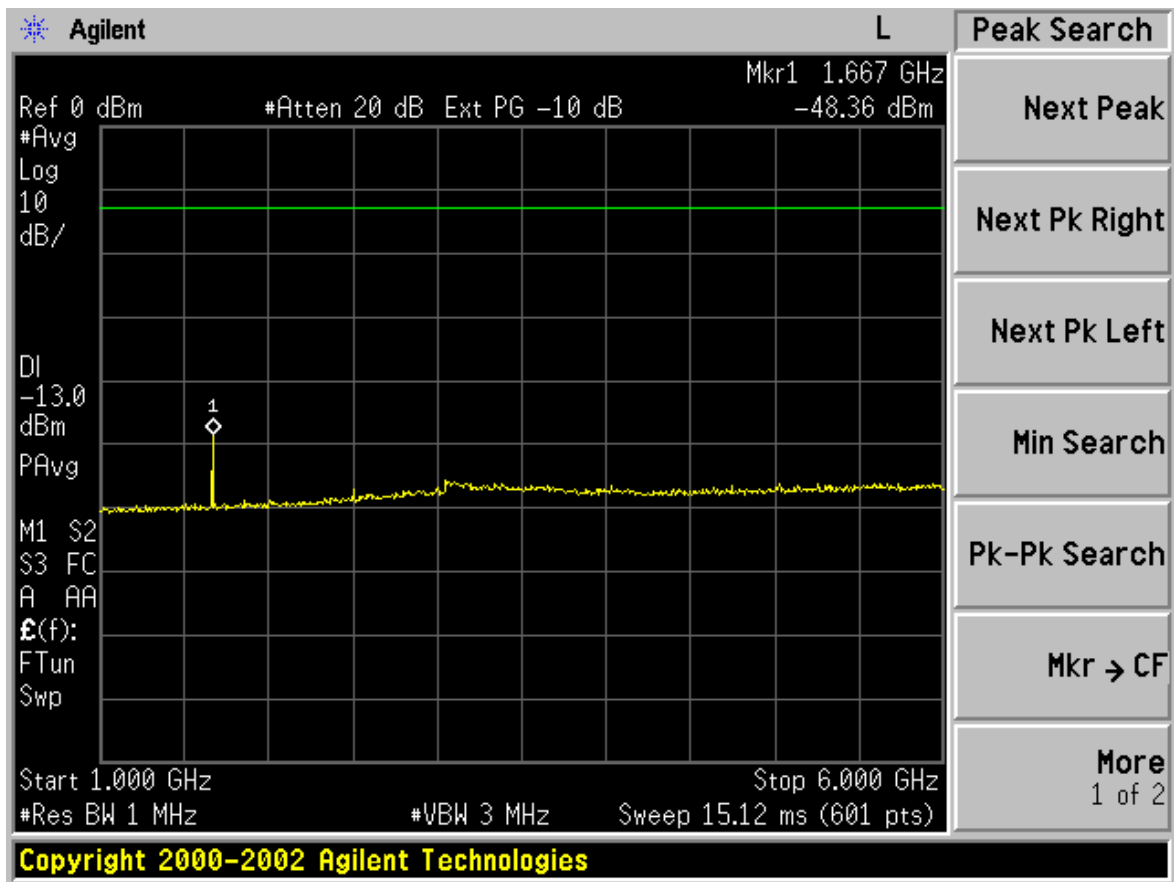


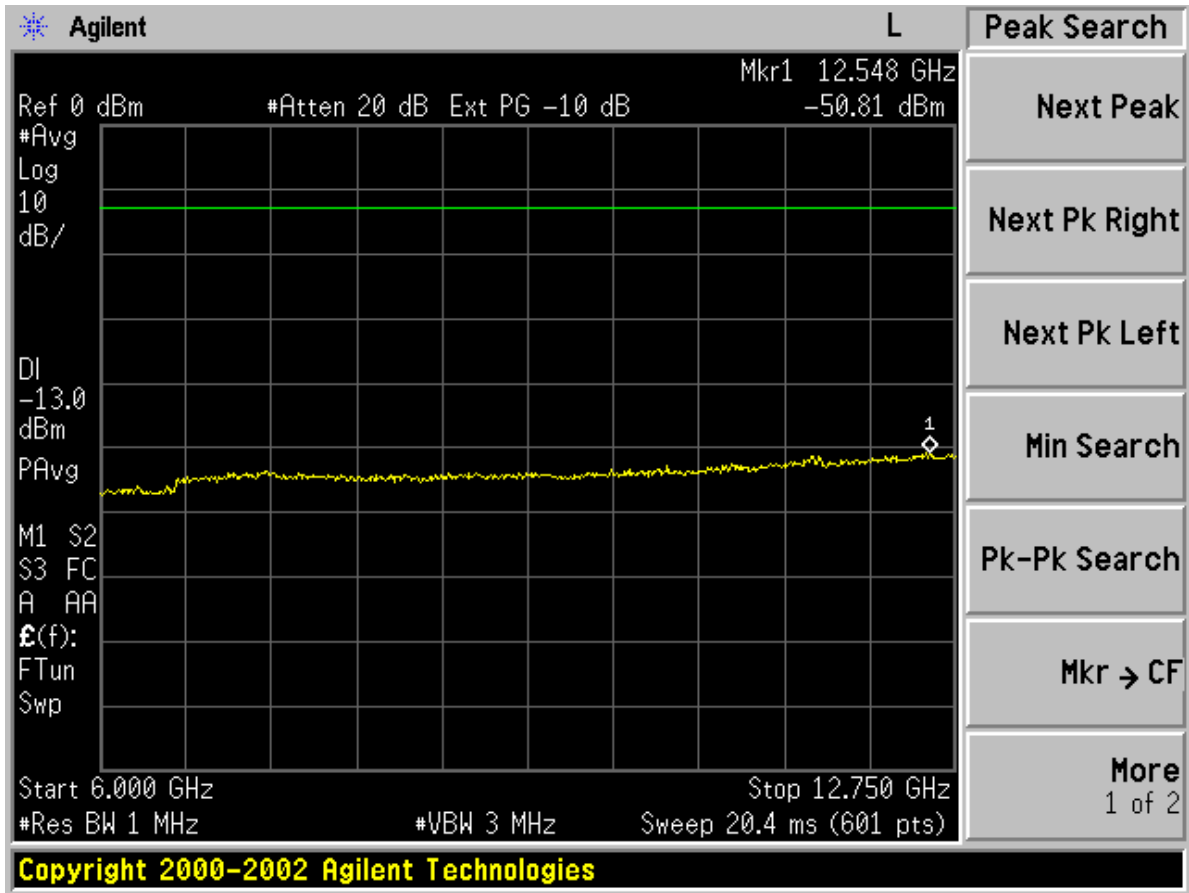




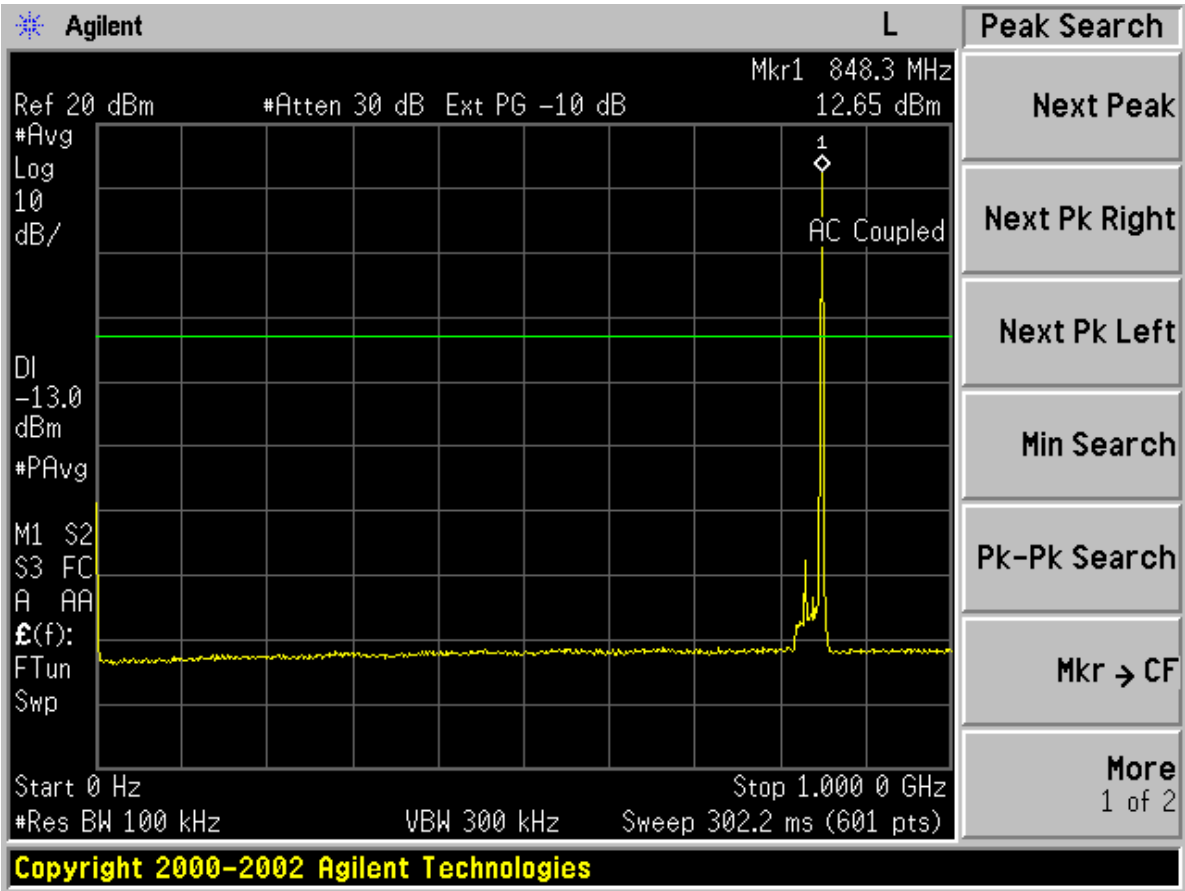
Channel 283

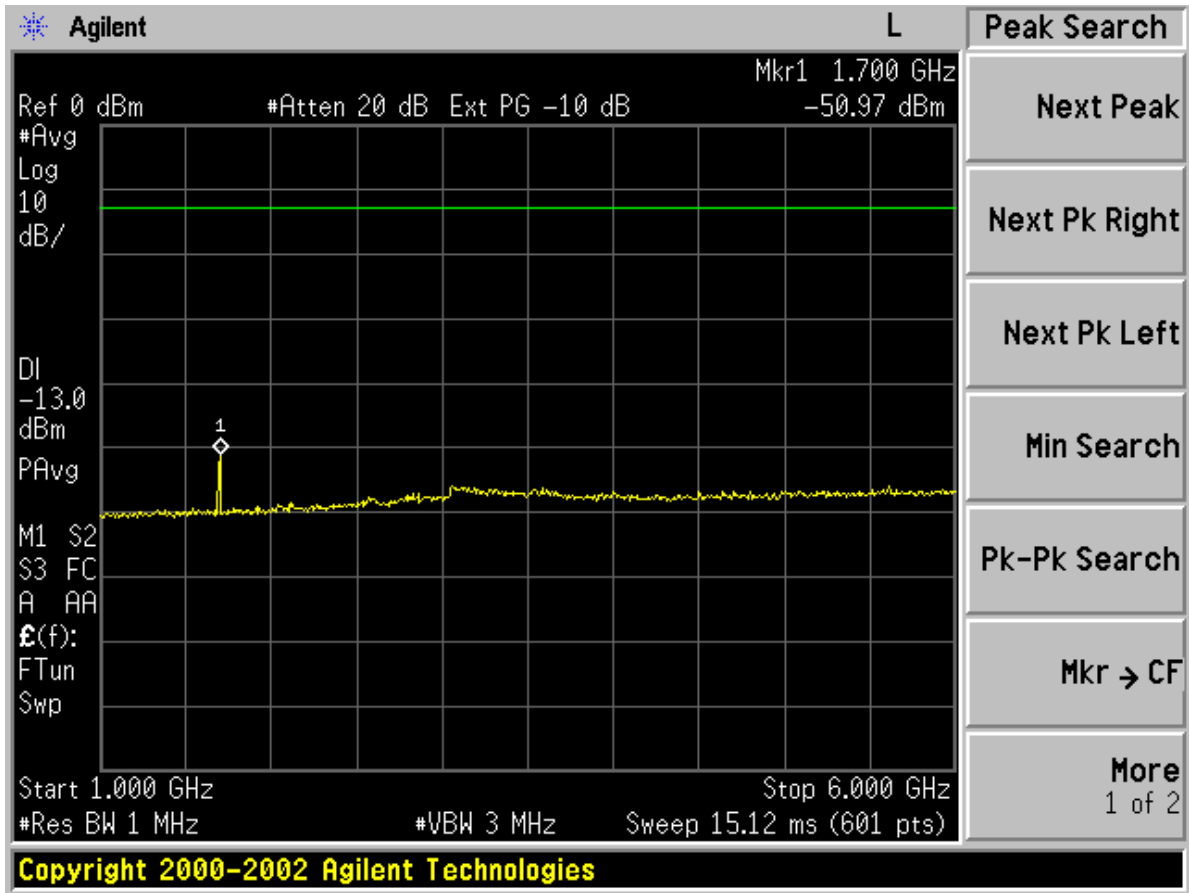


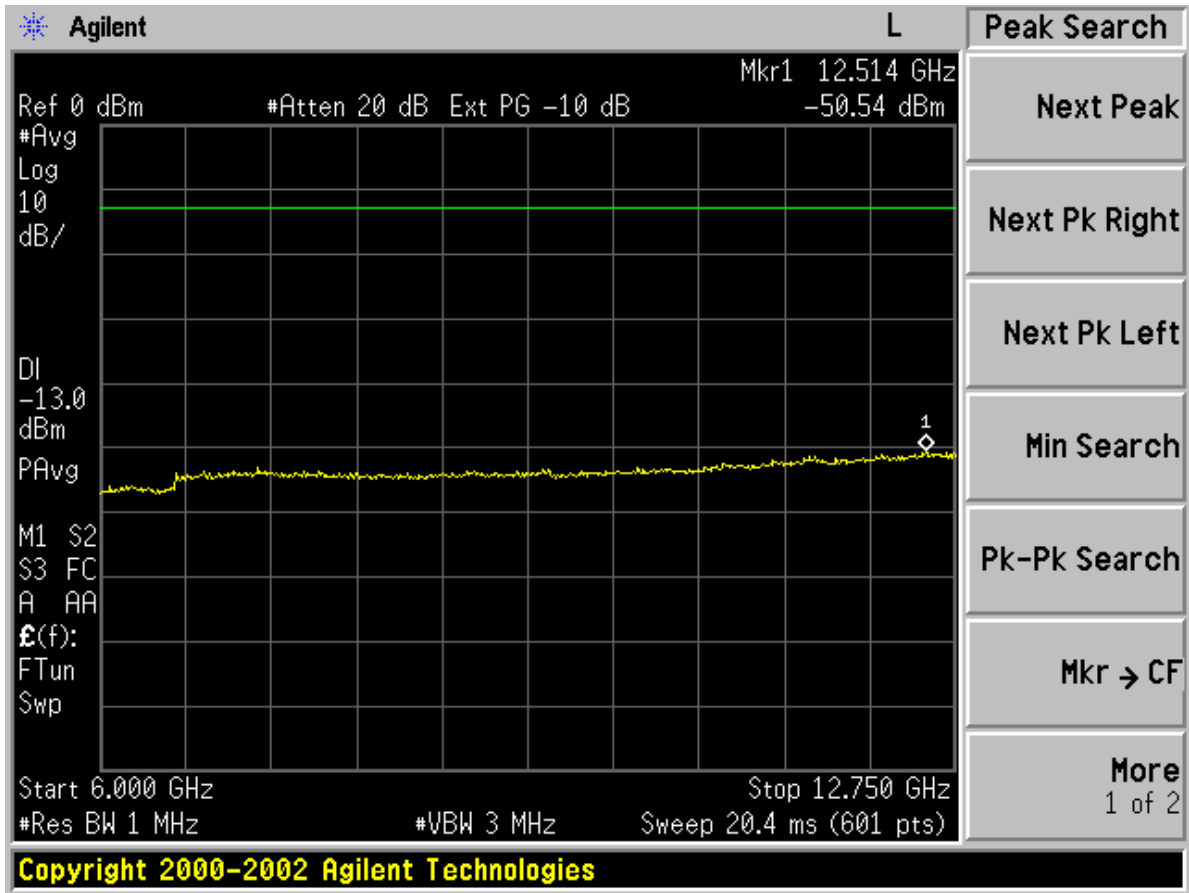




Channel 777





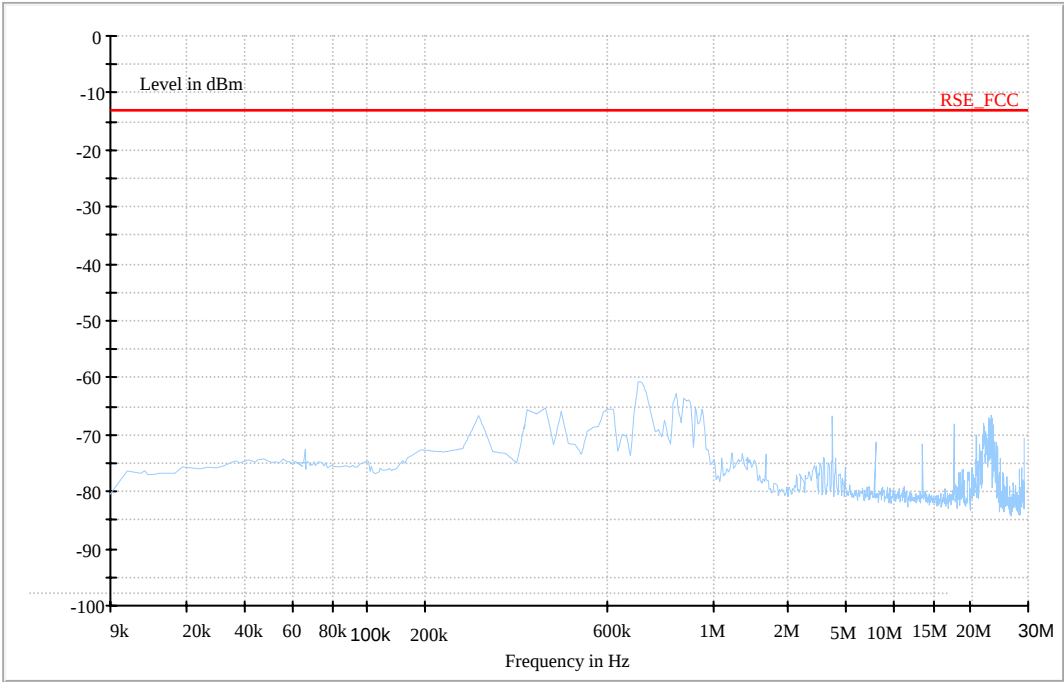


Appendix F

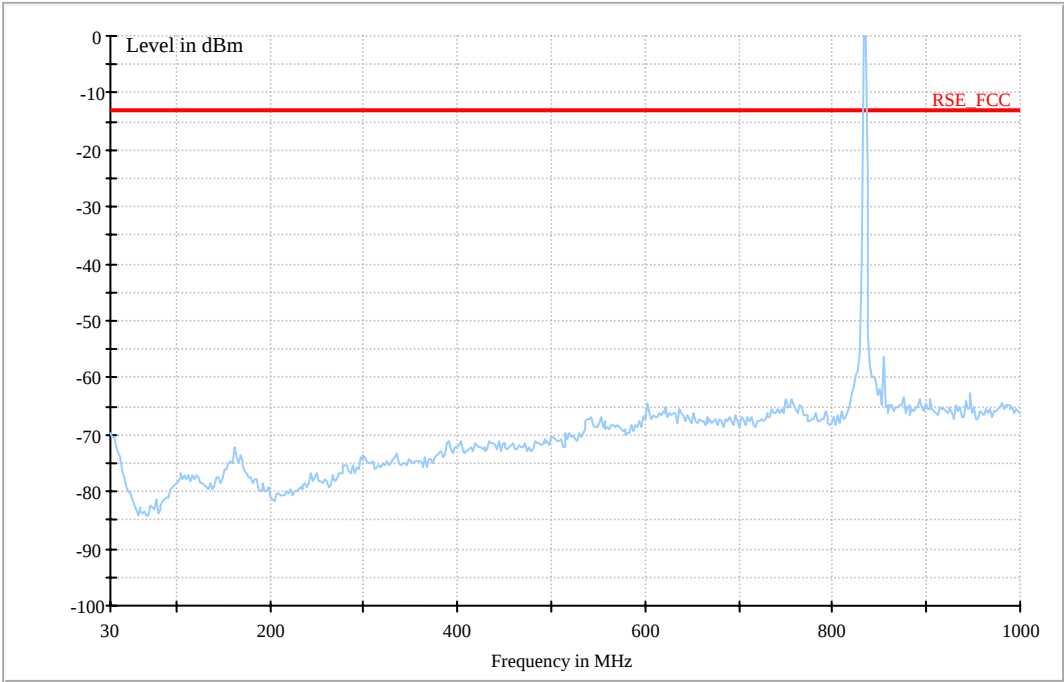
Radiated Spurious Emission According to FCC Part 2.1053 & 22.917



Traffic Mode (9kHz-30MHz)

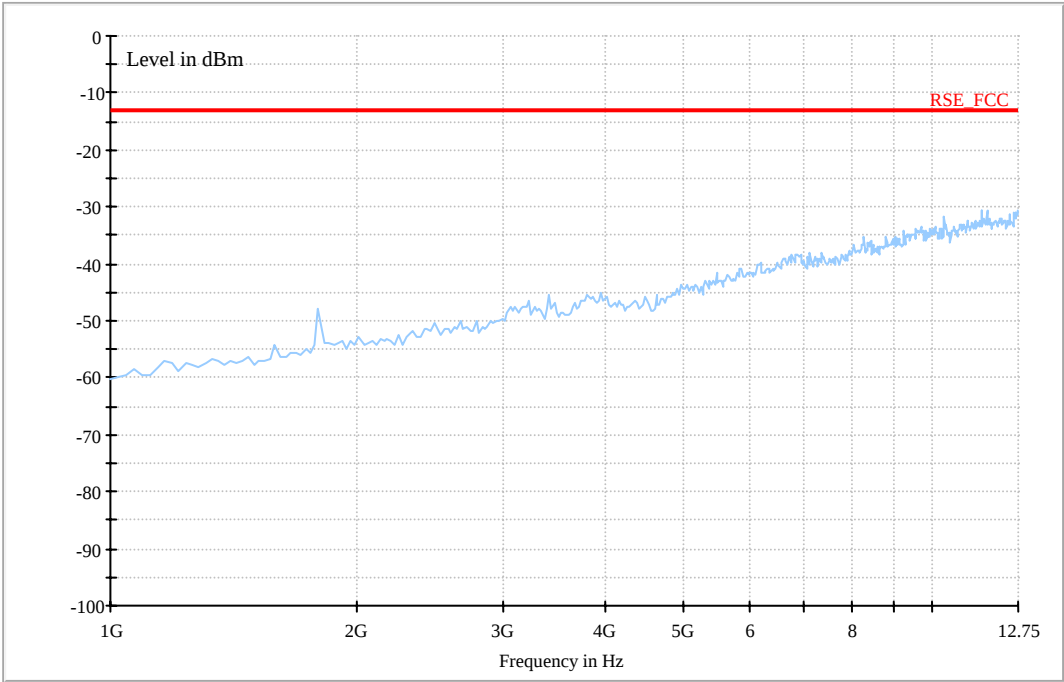


Traffic Mode (30MHz-1GHz)

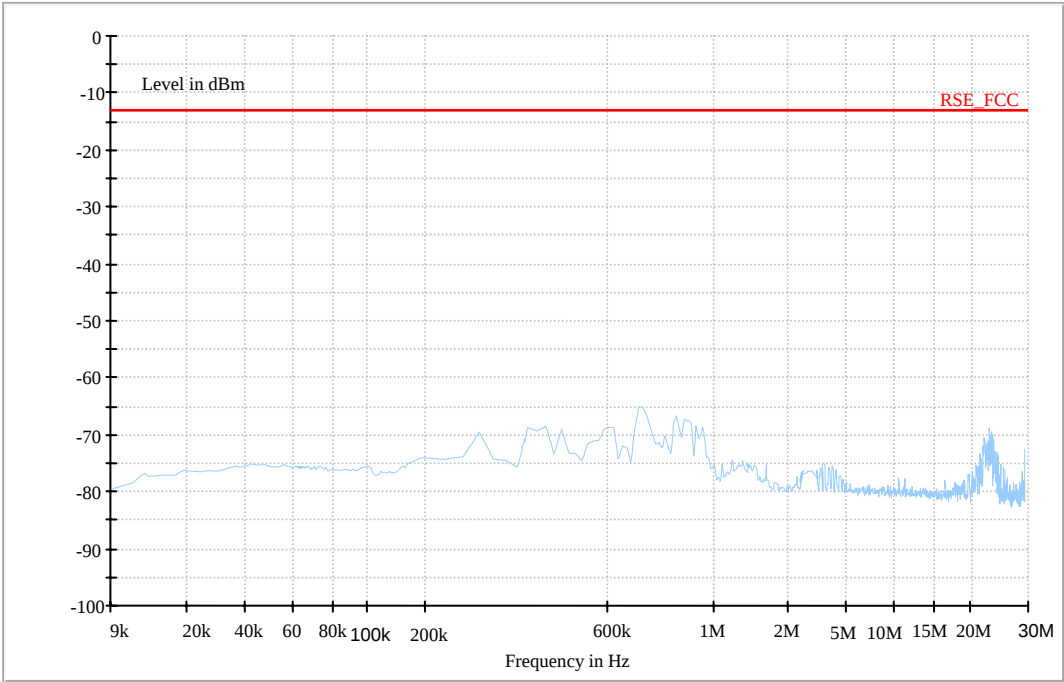


Note: The frequency which exceeded the limit was the carrier frequency.

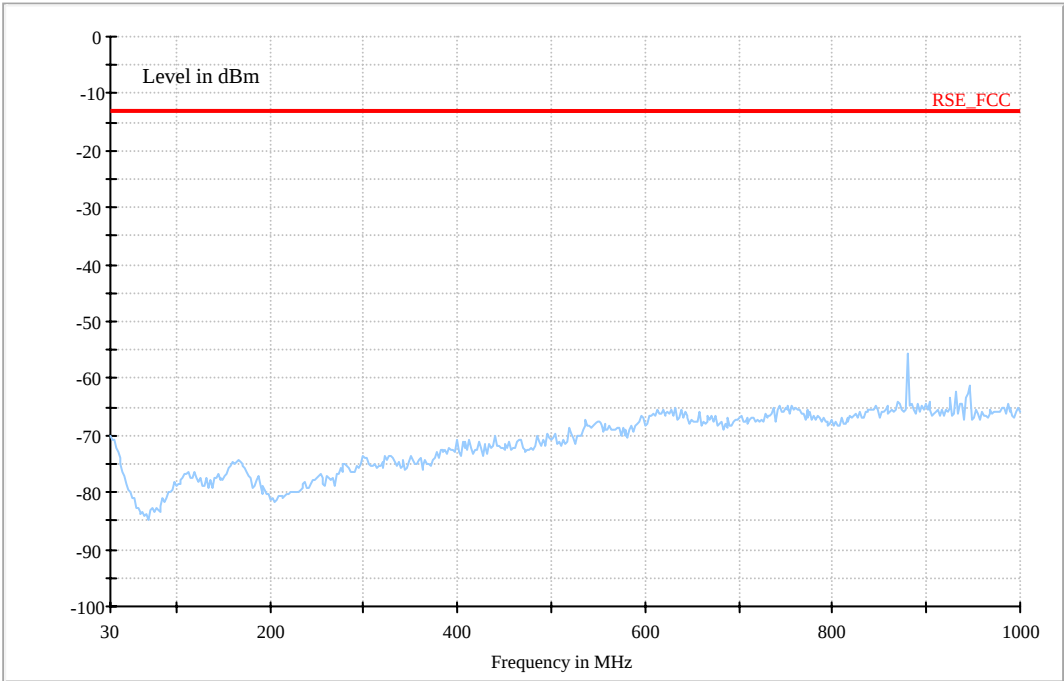
Traffic Mode (1GHz-12.75GHz)



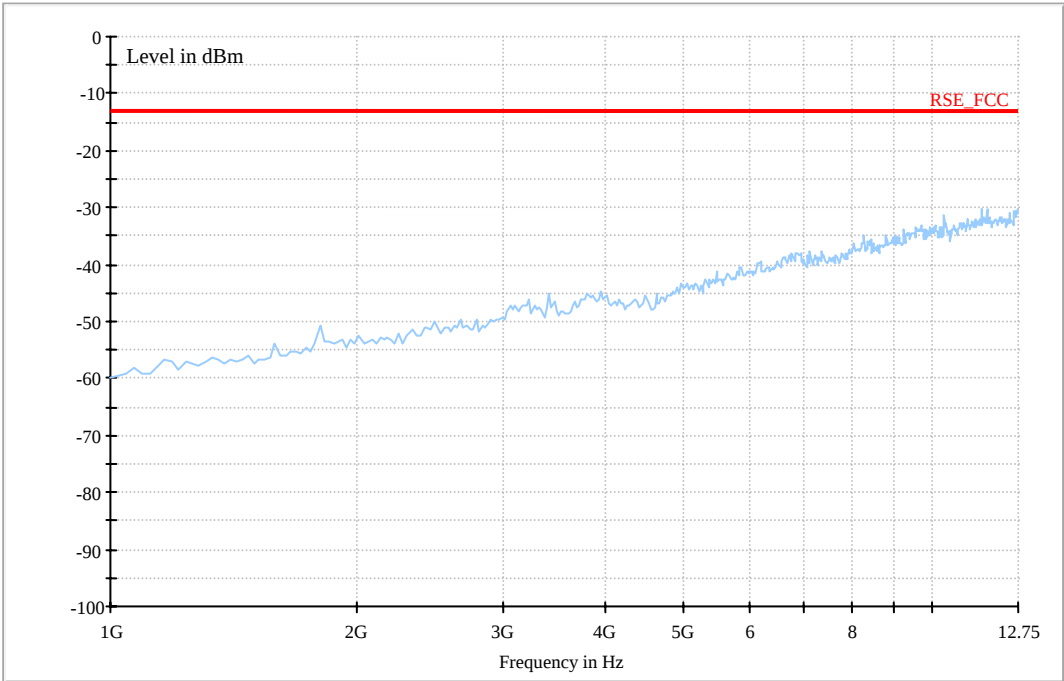
Idle Mode (9 kHz-30MHz)



Idle Mode (30MHz-1GHz)

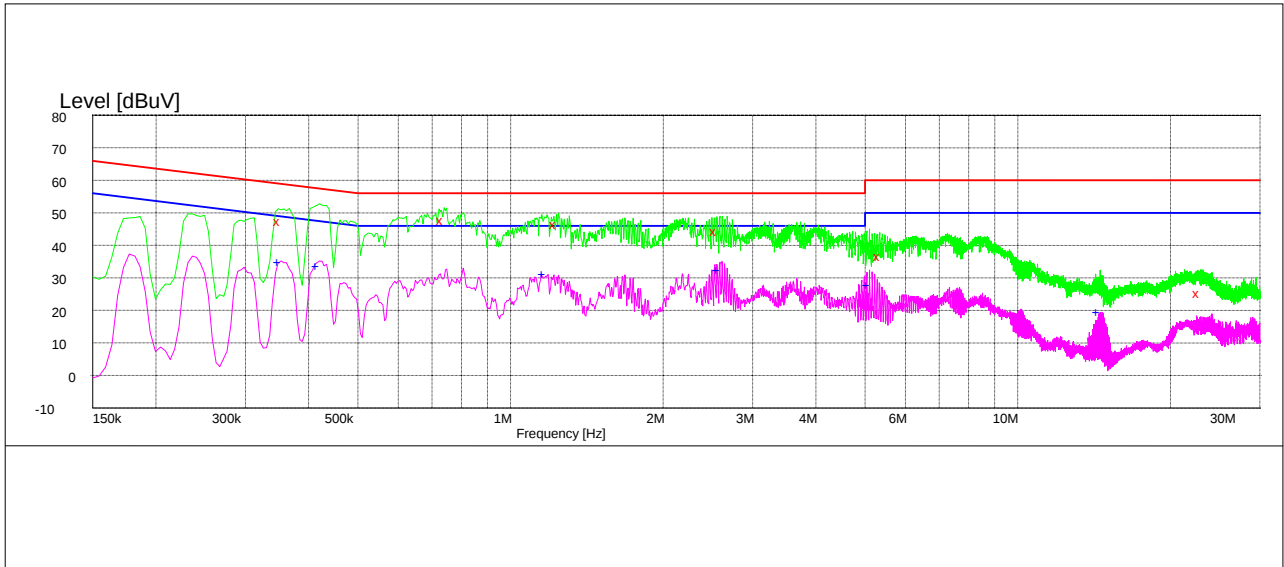


Idle Mode (1GHz-12.75GHz)



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
0.352500	47.90	0.8	59	11.1	L1	GND
0.739500	48.20	0.7	56	7.8	L1	GND
1.234500	46.90	0.6	56	9.1	L1	GND
2.557500	44.70	0.6	56	11.3	L1	GND
5.370000	37.30	0.6	60	22.7	L1	GND
22.879500	25.90	2.7	60	34.1	L1	GND

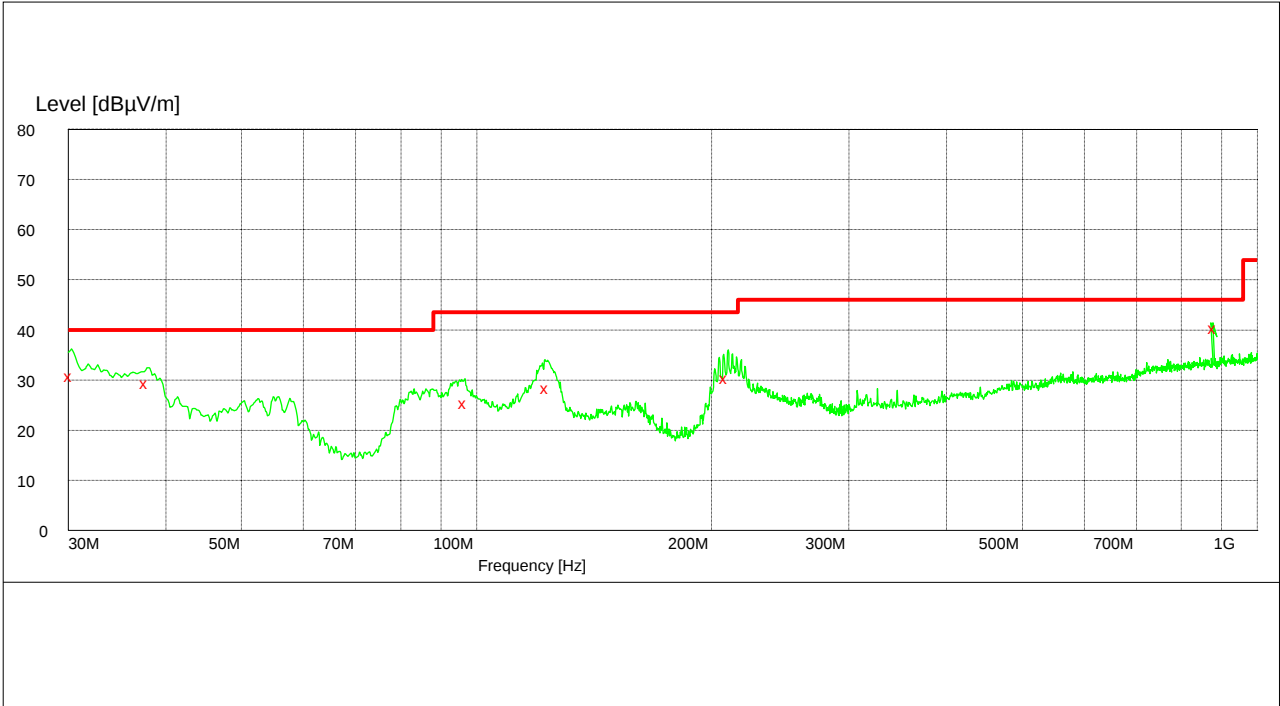
MEASUREMENT RESULT: "AV DECTER"

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.352500	35.30	0.8	49	13.7	L1	GND
0.420000	34.10	0.7	47	13.4	L1	GND
1.171500	31.60	0.6	46	14.4	L1	GND
2.589000	32.80	0.6	46	13.2	L1	GND
5.113500	28.30	0.5	50	21.7	L1	GND
14.518500	19.90	1.7	50	30.1	L1	GND

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
30.300000	31.00	-4.7	40.0	9.0	100.0	36.00	VERTICAL
37.920000	29.50	-8.8	40.0	10.5	100.0	93.00	VERTICAL
96.900000	25.50	-11.9	43.5	18.0	100.0	193.00	VERTICAL
123.540000	28.50	-9.9	43.5	15.0	100.0	320.00	VERTICAL
209.460000	30.50	-11.9	43.5	13.0	100.0	190.00	HORIZONTAL
884.880000	40.50	1.6	46.0	5.5	100.0	0.00	VERTICAL

Appendix I

Photos of Test Setup

2 Radiated Emission



Radiated Disturbance

3 Radiated Spurious Emission



Radiated Spurious Emission (below 1GHz)



Radiated Spurious Emission (above 1GHz)

4 Conducted Emissions



Conducted Emissions for AC Ports