

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 Parms		
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <h1 style="margin: 0;">22.11</h1> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <h1 style="margin: 0;">-64.22</h1> <p>dBm/1.23 MHz</p> </div> </div> <p style="text-align: right; margin-top: 10px;">Single</p>						Cell 1 Power		
							-25.00		
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 ▾		
				Active Cell Connected			Sys Type: IS-2000		
							Logging: No Conn.		
1 of 2				IntRef	Offset				1 of 4

TM3:

Measurement/Instrument Screen									
Control		Maximum/Minimum Power						Call Parms	
Max/Min Power Setup ▾		Maximum Power		Minimum Power				Cell 1 Power	
		22.27		-64.44				-25.00	
		dBm		dBm/1.23 MHz				dBm/1.23 MHz	
Maximum Power Setup ▾								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			Sys Type: IS-2000				
		Connected			Logging: No Conn.				
1 of 2			IntRef	Offset				1 of 4	

Channel 283

TM1:

Measurement/Instrument Screen									
Control	Maximum/Minimum Power						Call Parms		
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <p>21.94</p> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <p>-63.51</p> <p>dBm/1.23 MHz</p> </div> </div>						Cell 1 Power		
Maximum Power Setup ▾							-25.00		
Minimum Power Setup ▾							dBm/1.23 MHz		
1 of 2							Cell Band		
							US Cellular		
							Channel		
							283		
							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.		
				IntRef	Offset				1 of 4

TM3:

Measurement/Instrument Screen												
Control	Maximum/Minimum Power						Call Params					
Max/Min Power Setup ▾	Maximum Power 21.92 dBm						Minimum Power -63.44 dBm/1.23 MHz			Cell 1 Power		
Maximum Power Setup ▾										-25.00		
Minimum Power Setup ▾										dBm/1.23 MHz		
							Cell Band					
							US Cellular					
							Channel					
							283					
							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			

Channel 777

TM1:

Measurement/Instrument Screen									
Control	Maximum/Minimum Power						Call Parms		
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <p>21.76</p> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <p>-62.93</p> <p>dBm/1.23 MHz</p> </div> </div> <p style="text-align: right; margin-top: 10px;">Single</p>						Cell 1 Power		
Maximum Power Setup ▾							-25.00		
Minimum Power Setup ▾							dBm/1.23 MHz		
1 of 2							Cell Band		
							US Cellular		
							Channel		
							777		
							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.		
				IntRef	Offset				1 of 4

TM3:

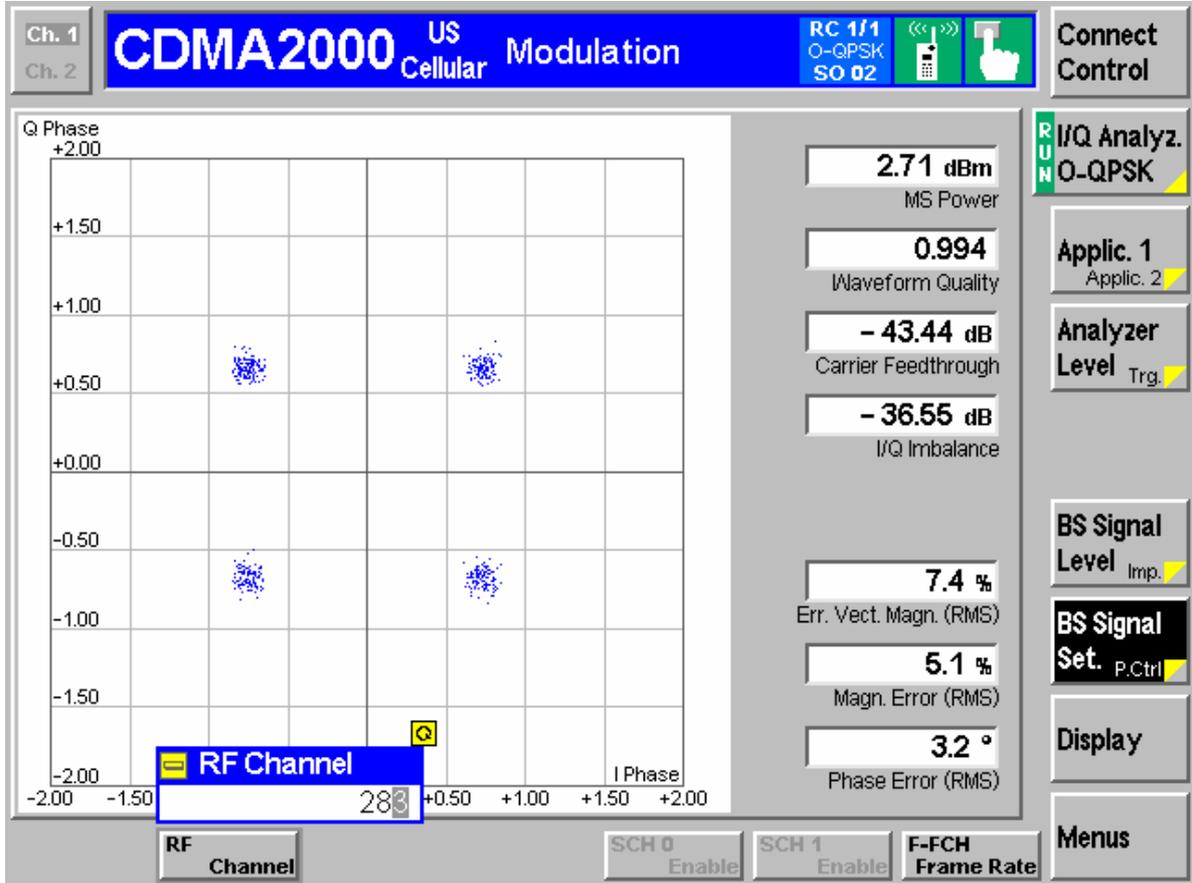
Measurement/Instrument Screen												
Control	Maximum/Minimum Power						Call Parm					
Max/Min Power Setup ▾	Maximum Power 22.14 dBm						Minimum Power -62.88 dBm/1.23 MHz			Cell 1 Power		
Maximum Power Setup ▾										-25.00		
Minimum Power Setup ▾										dBm/1.23 MHz		
							Cell Band			US 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

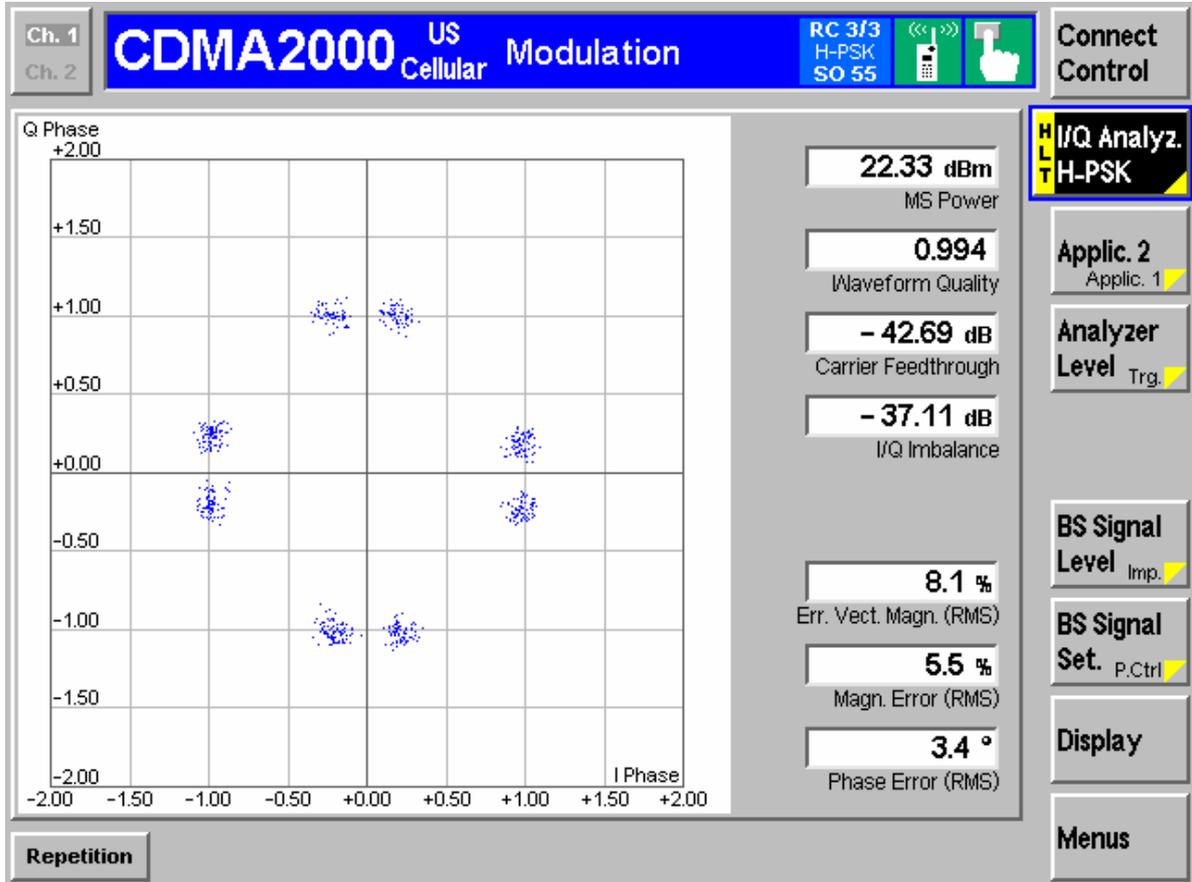
Modulation Characteristics

According to FCC Part 2.1047 & Part22 Subpart H

Channel 283 (TM1)



Channel 283 (TM3)

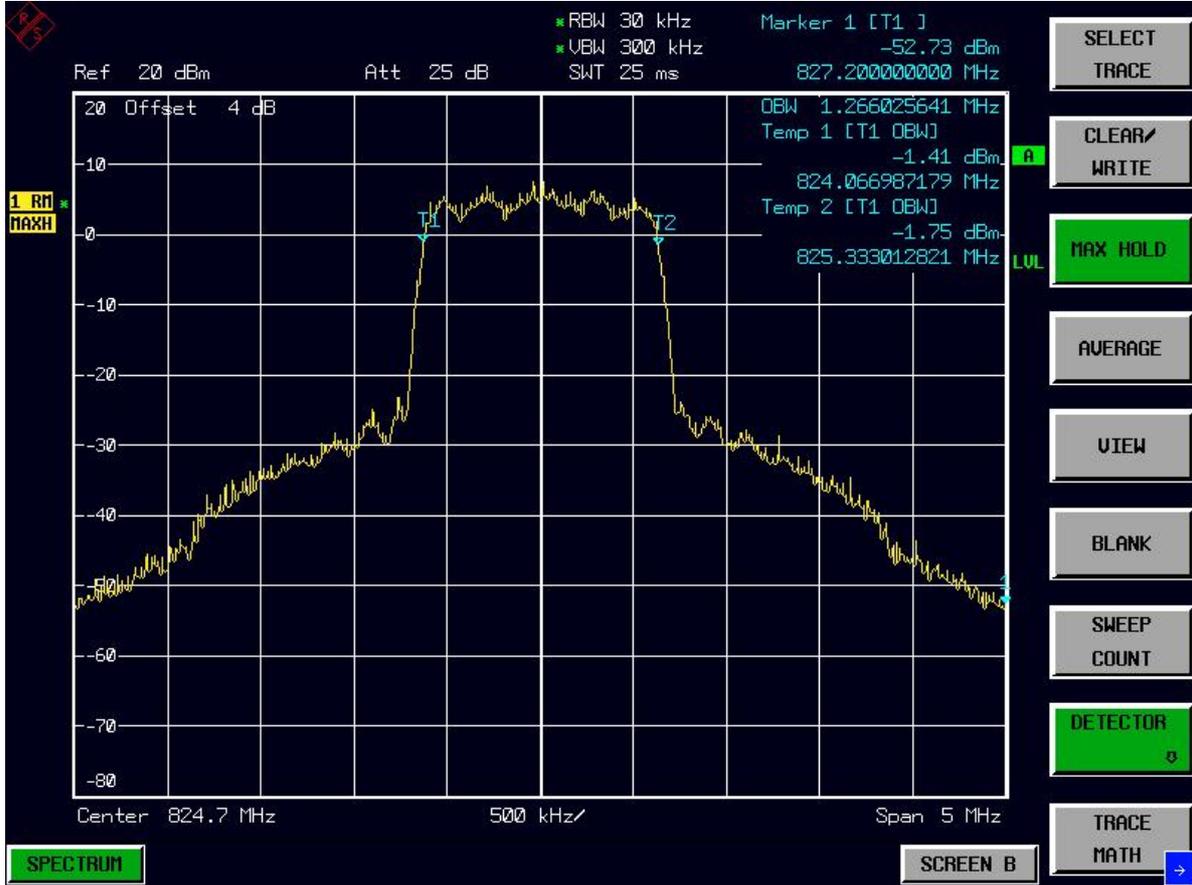


Appendix C

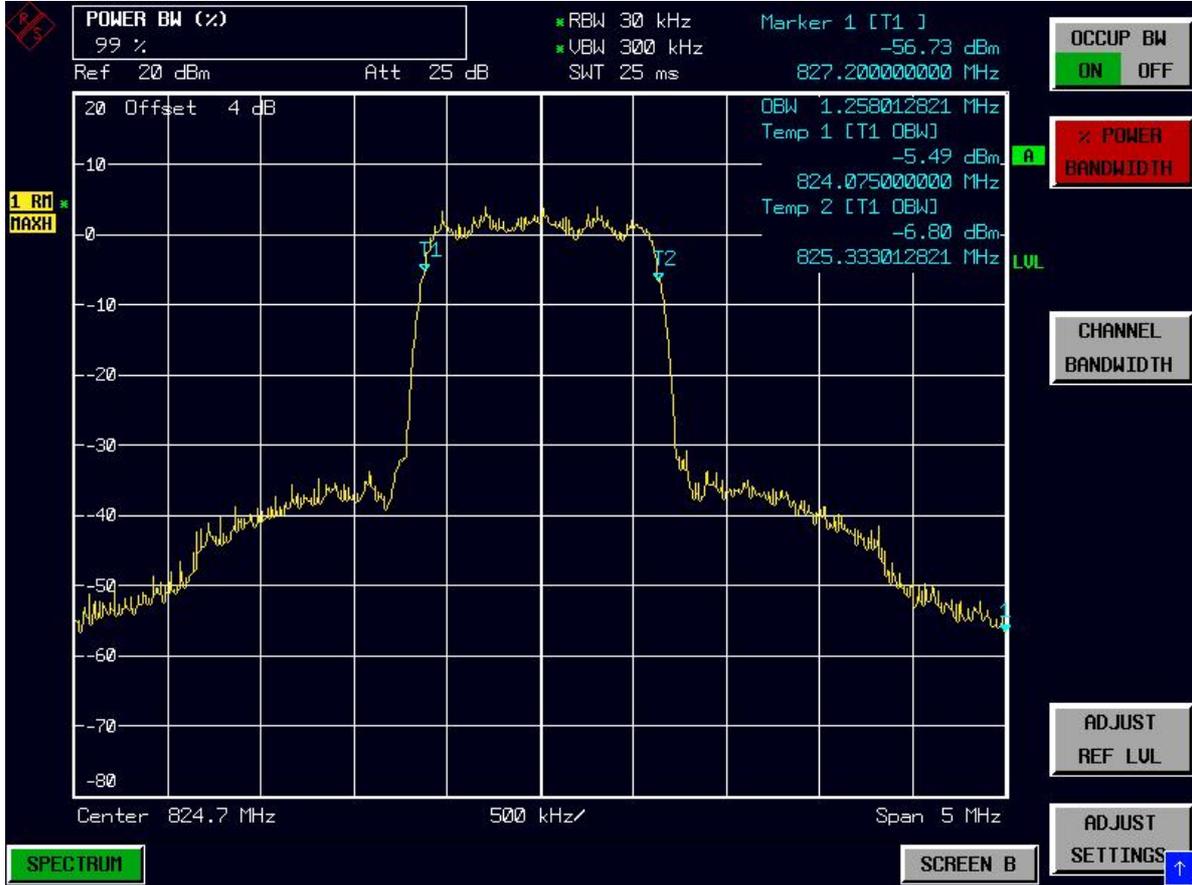
Occupied Bandwidth

According to FCC Part 2.1049 & Part 22 Subpart H

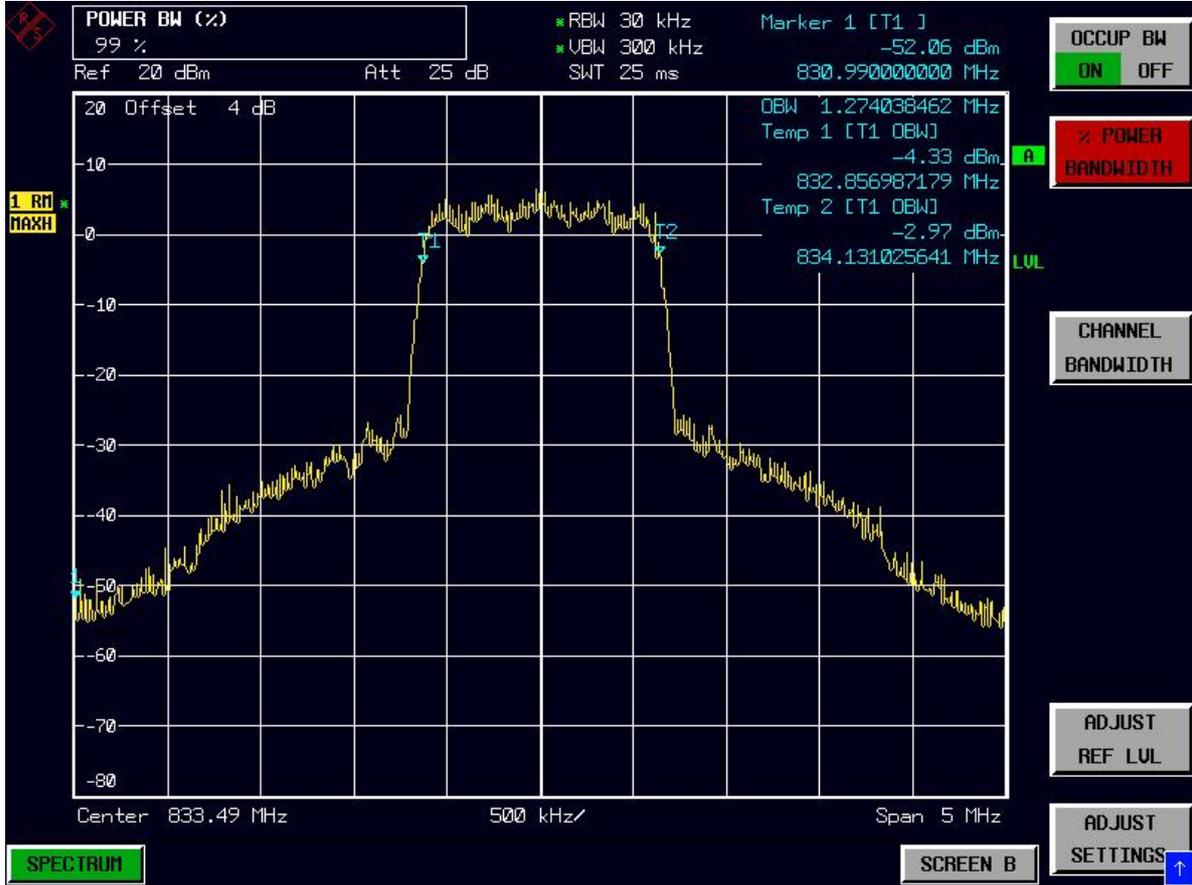
Channel 1013 (TM1)



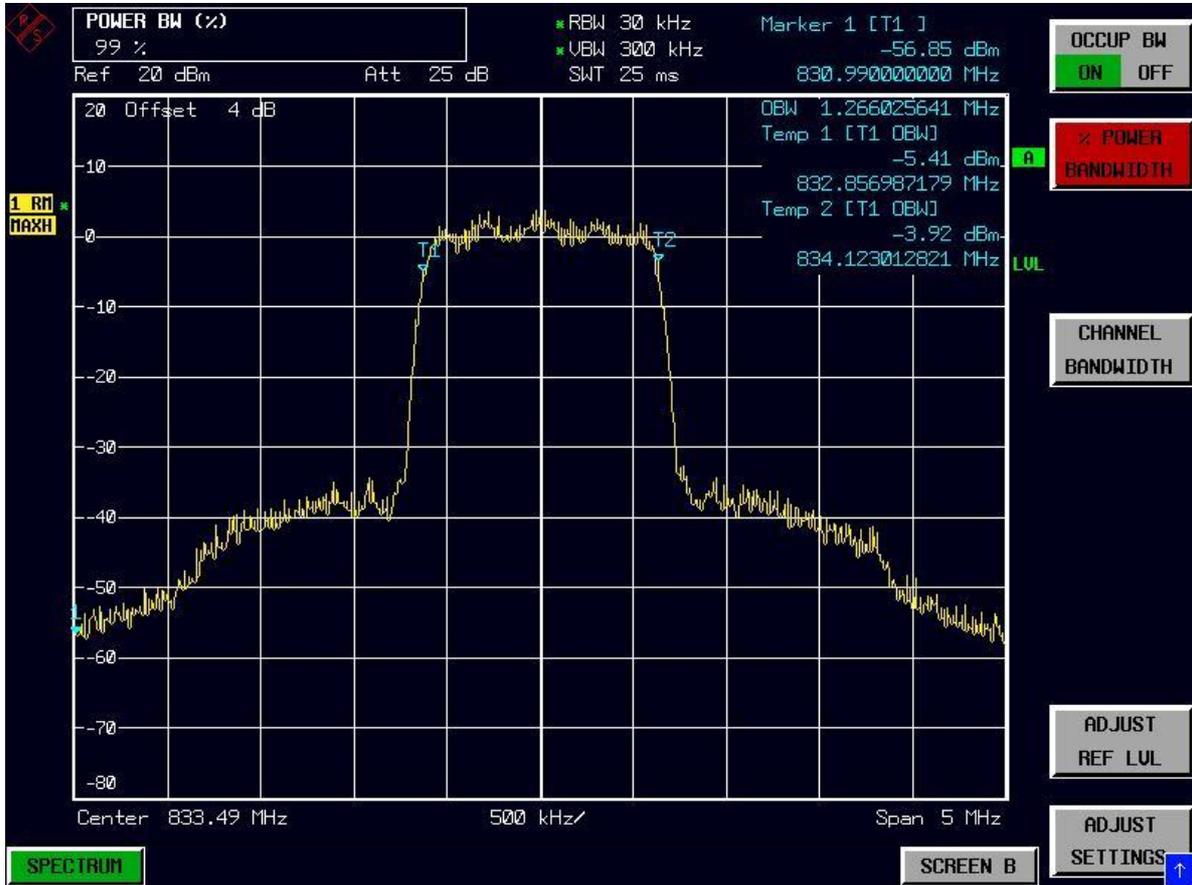
Channel 1013 (TM3)



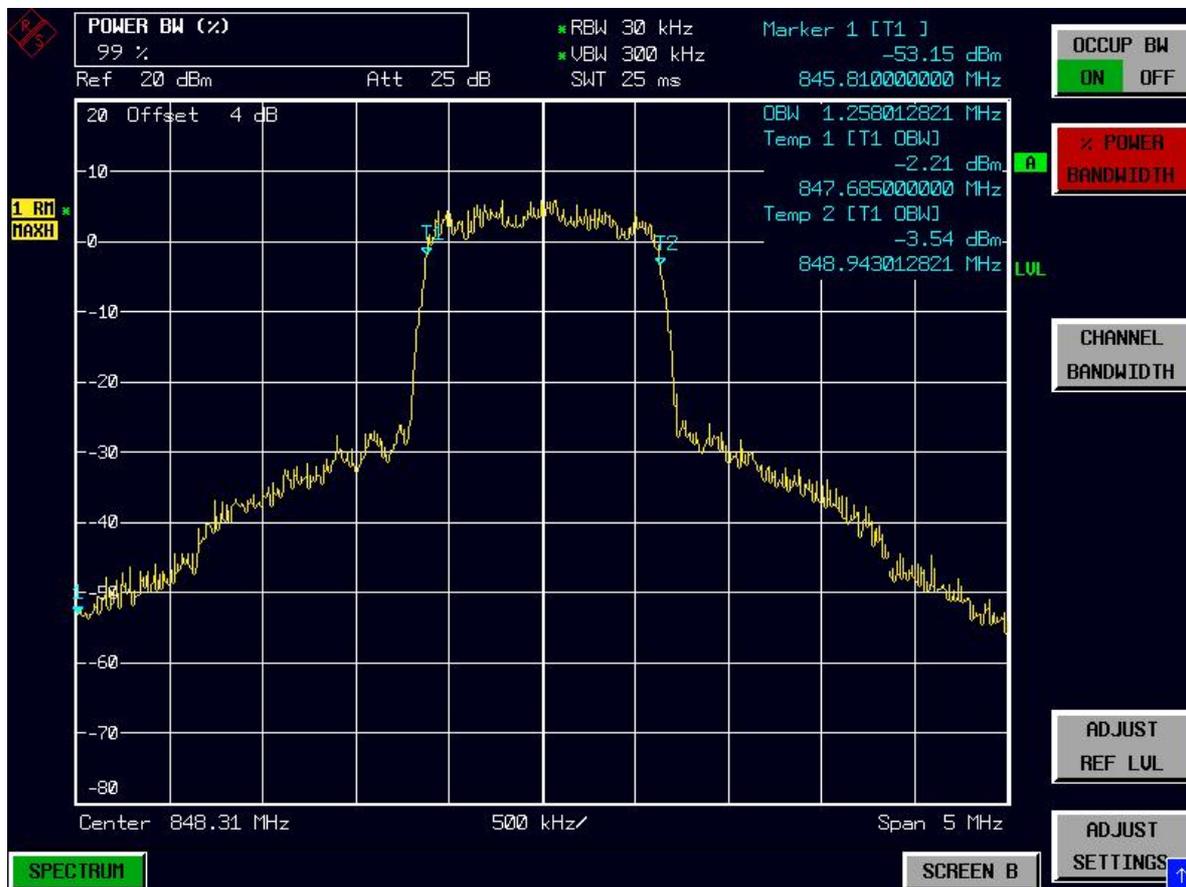
Channel 283 (TM1)



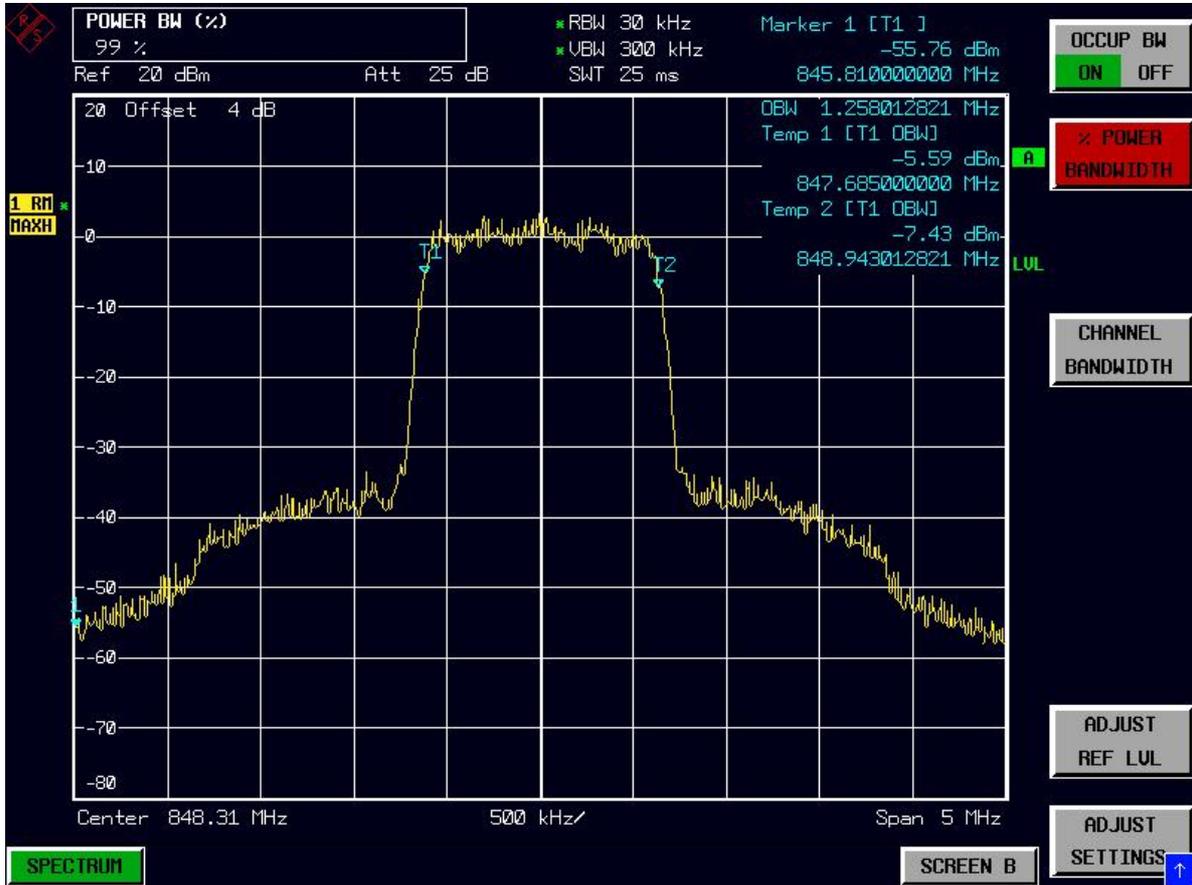
Channel 283 (TM3)



Channel 777 (TM1)



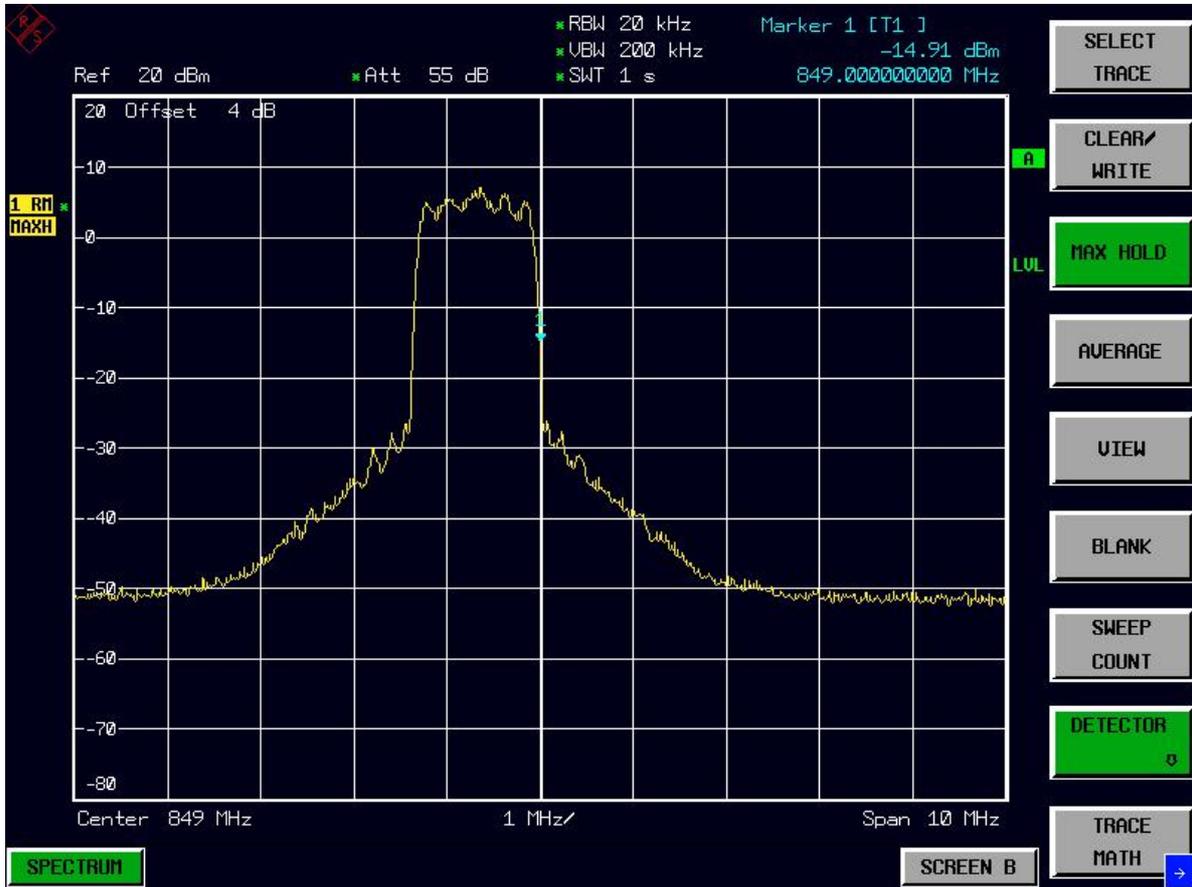
Channel 777 (TM3)



Appendix D

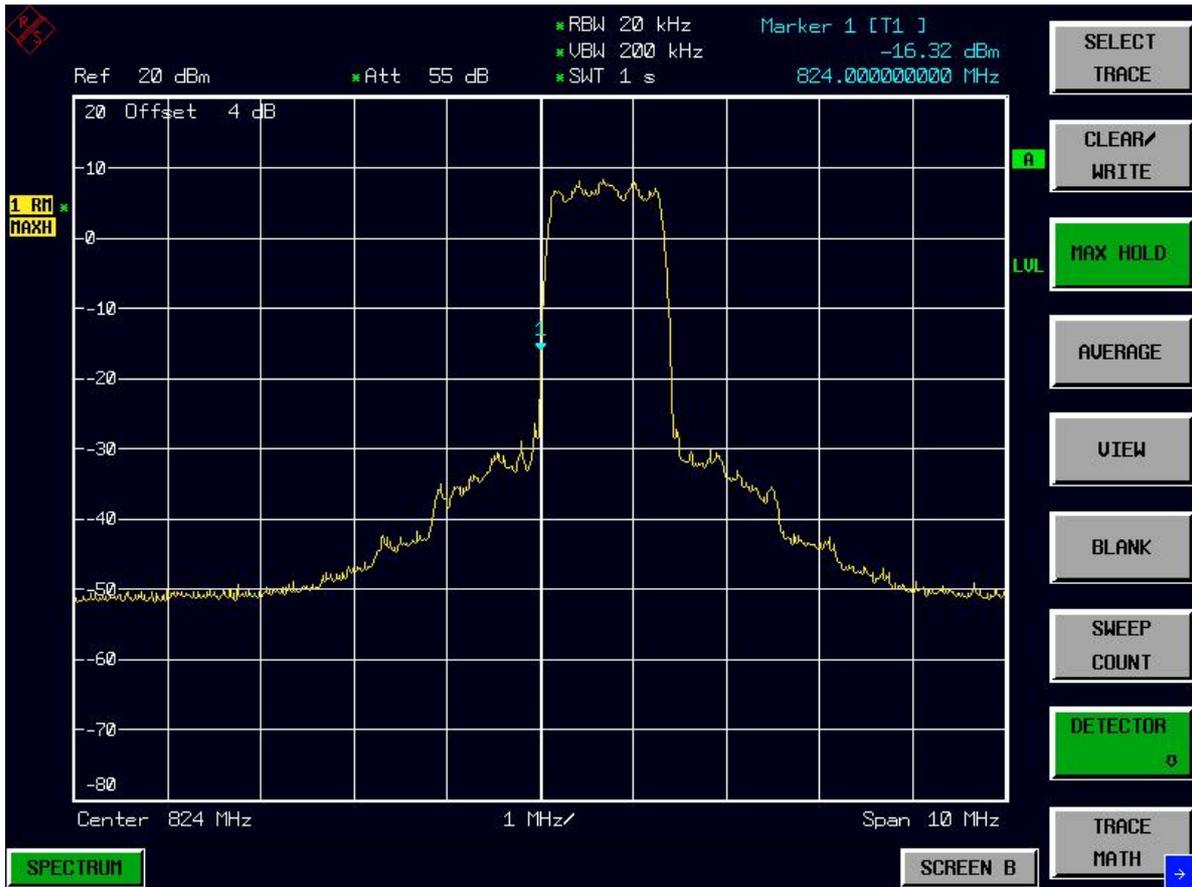
Band Edges Compliance According to FCC Part 2.1051 & 22.917

Right Edge (849MHz) Channel 777

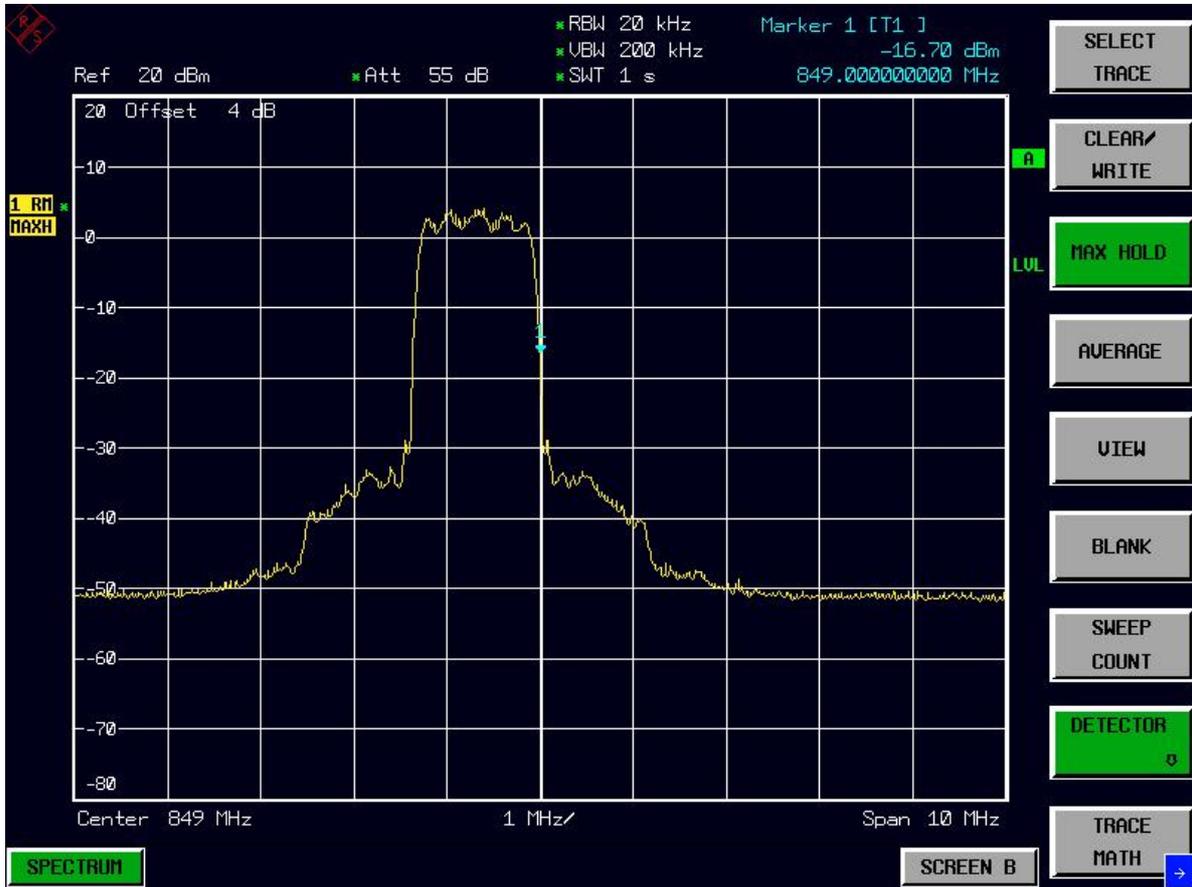


TM3

Left Edge (824 MHz) Channel 1013



Right Edge (849MHz) Channel 777



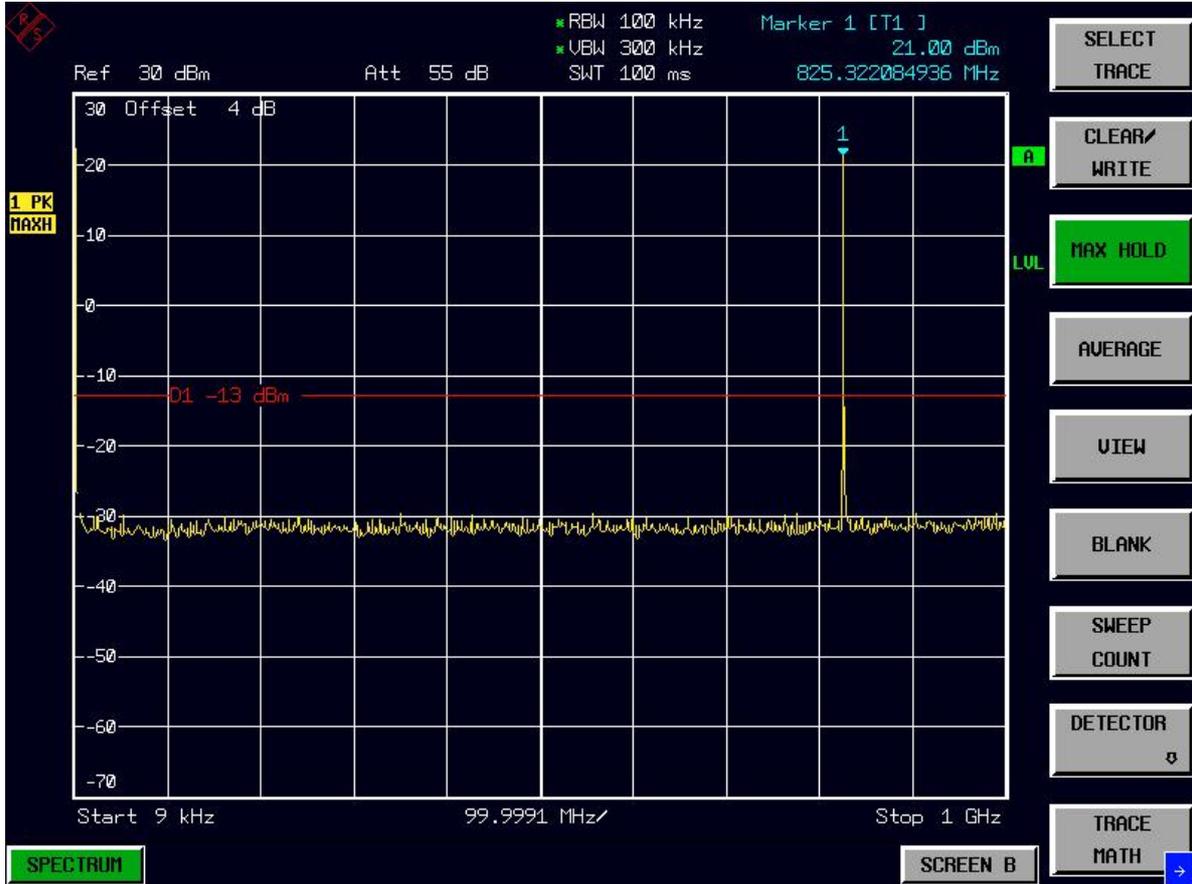
Appendix E

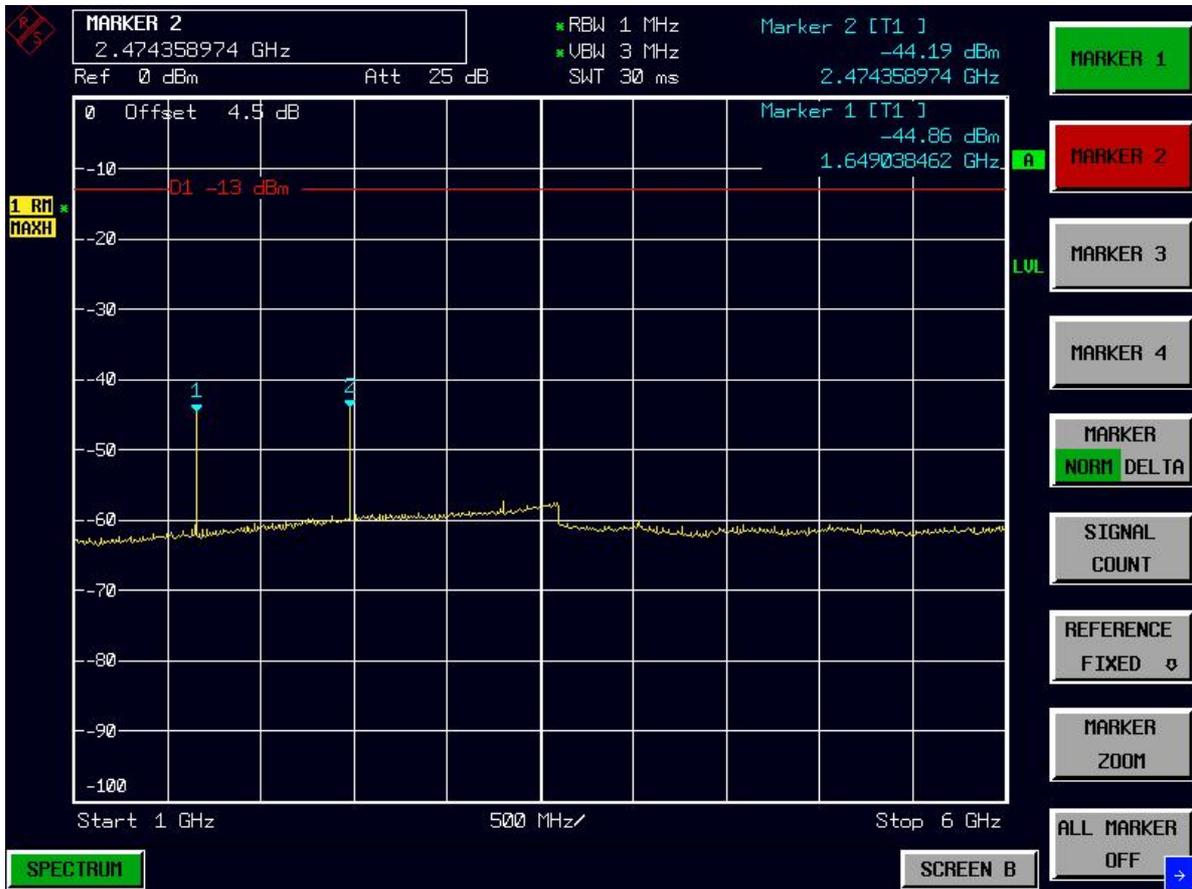
Spurious Emission at Antenna Terminal

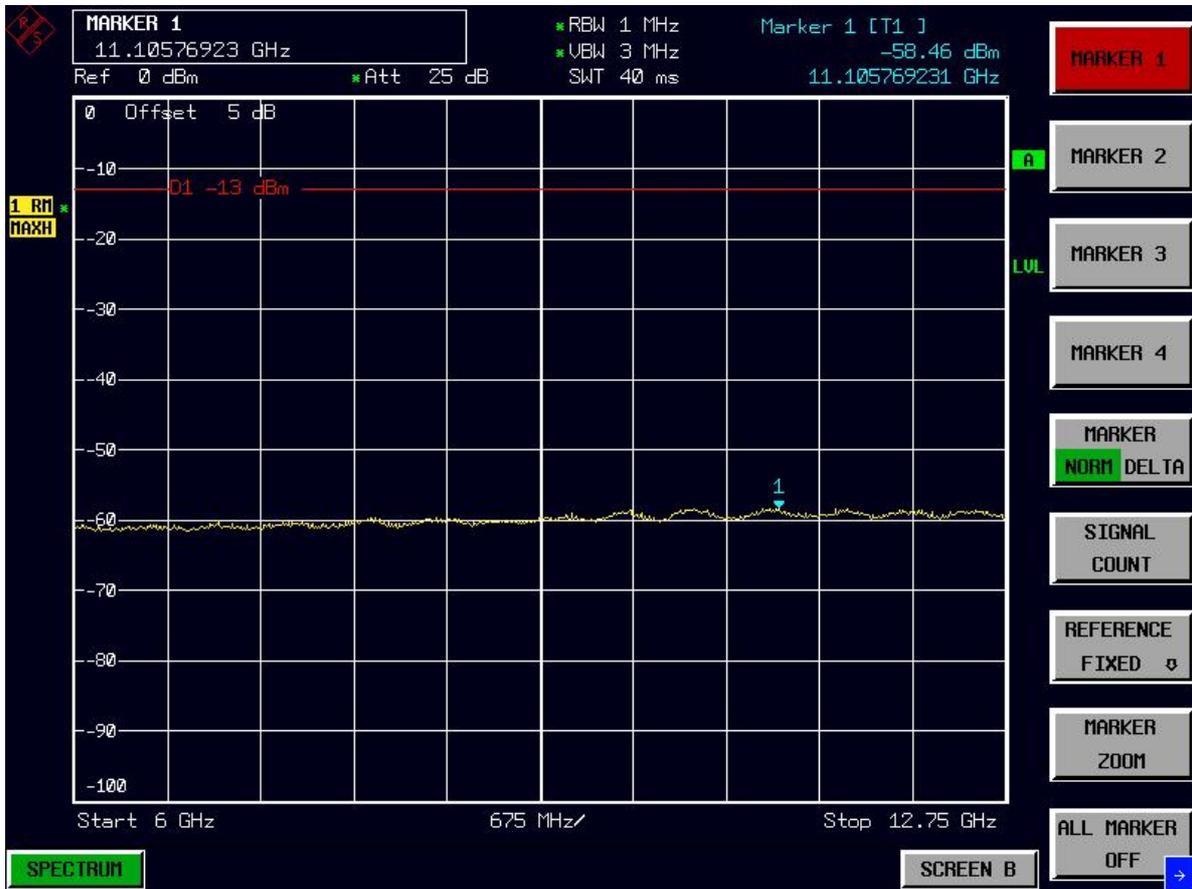
According to FCC Part 2.1051 & 22.917

1.1 TM1

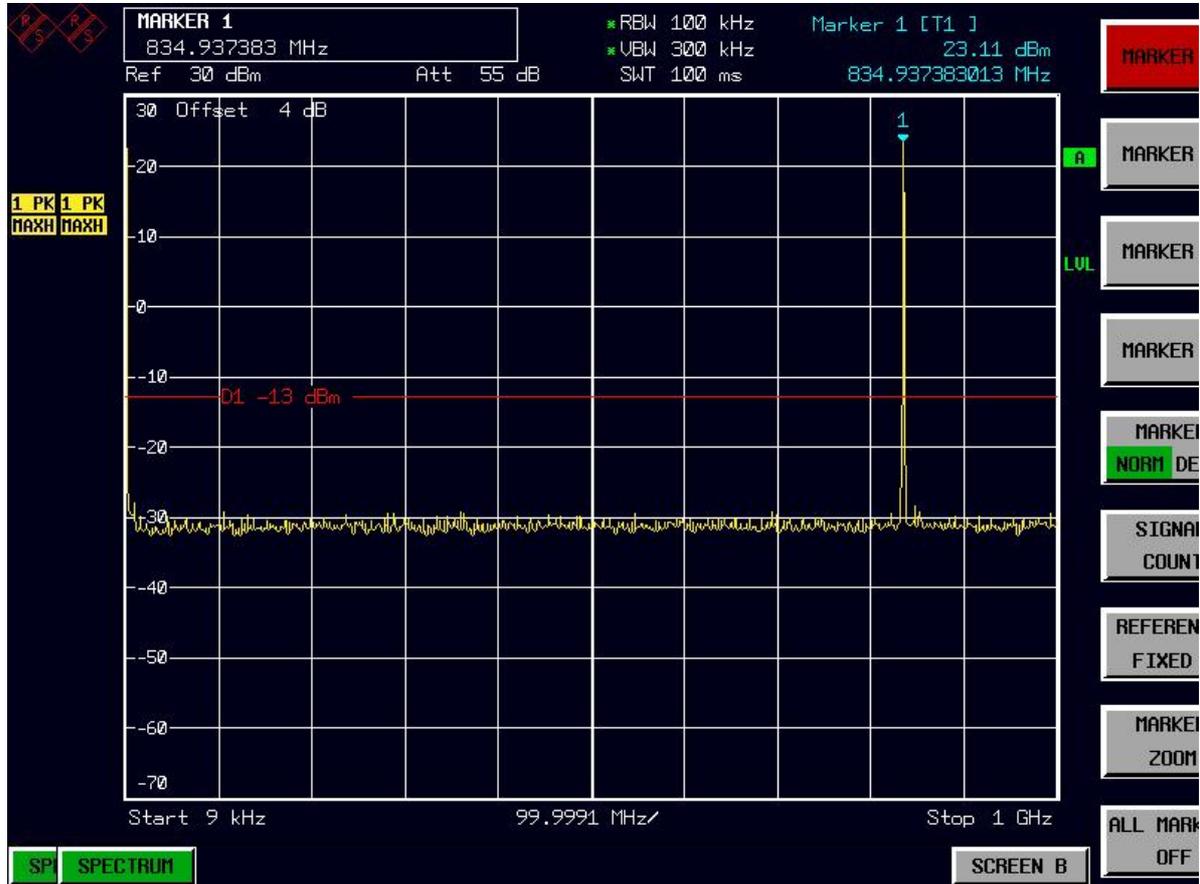
Channel 1013

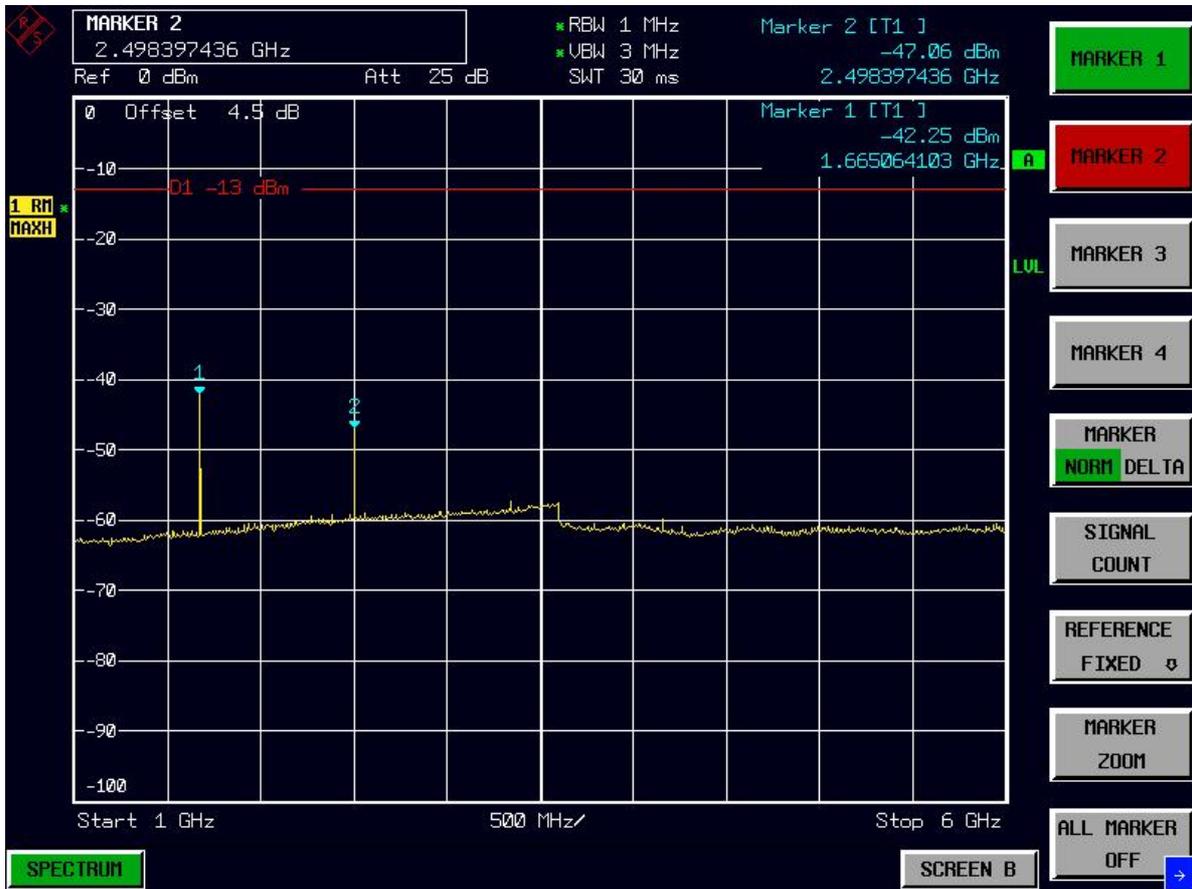


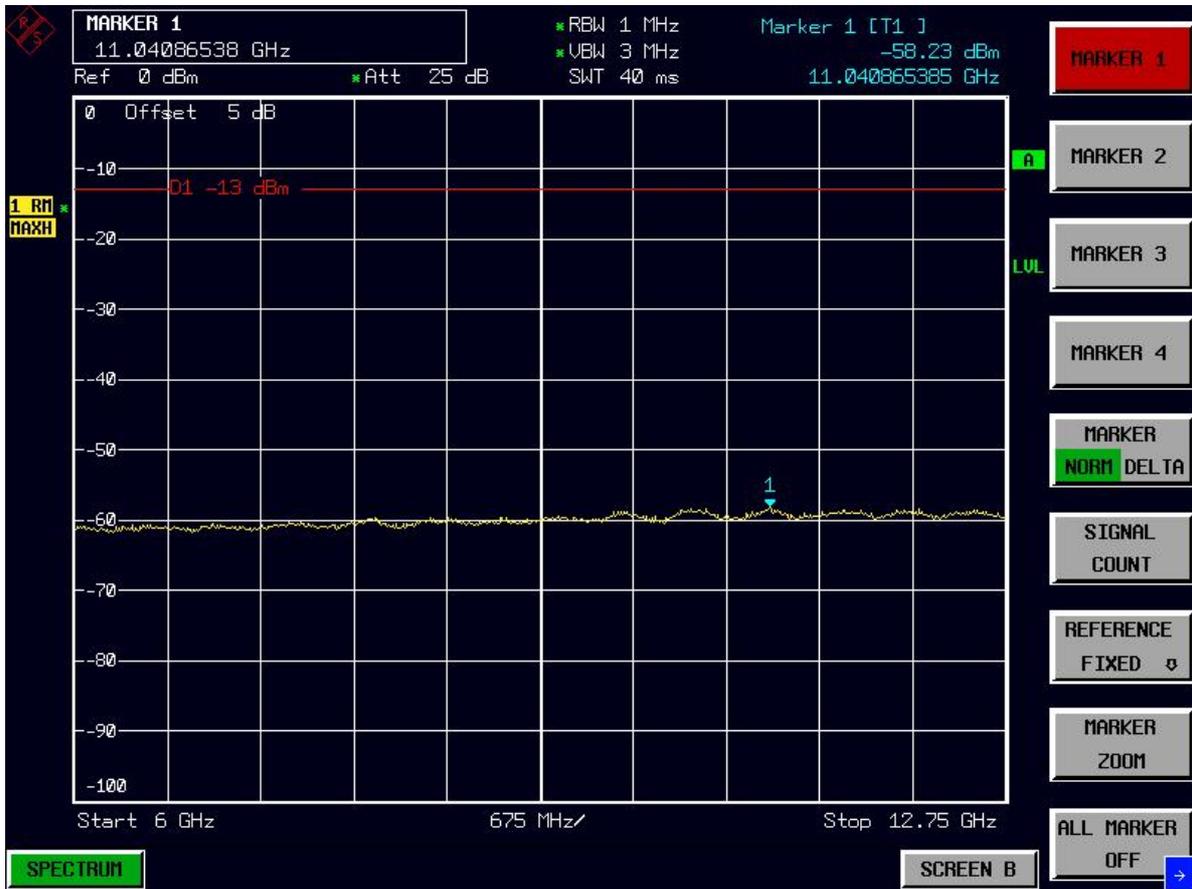




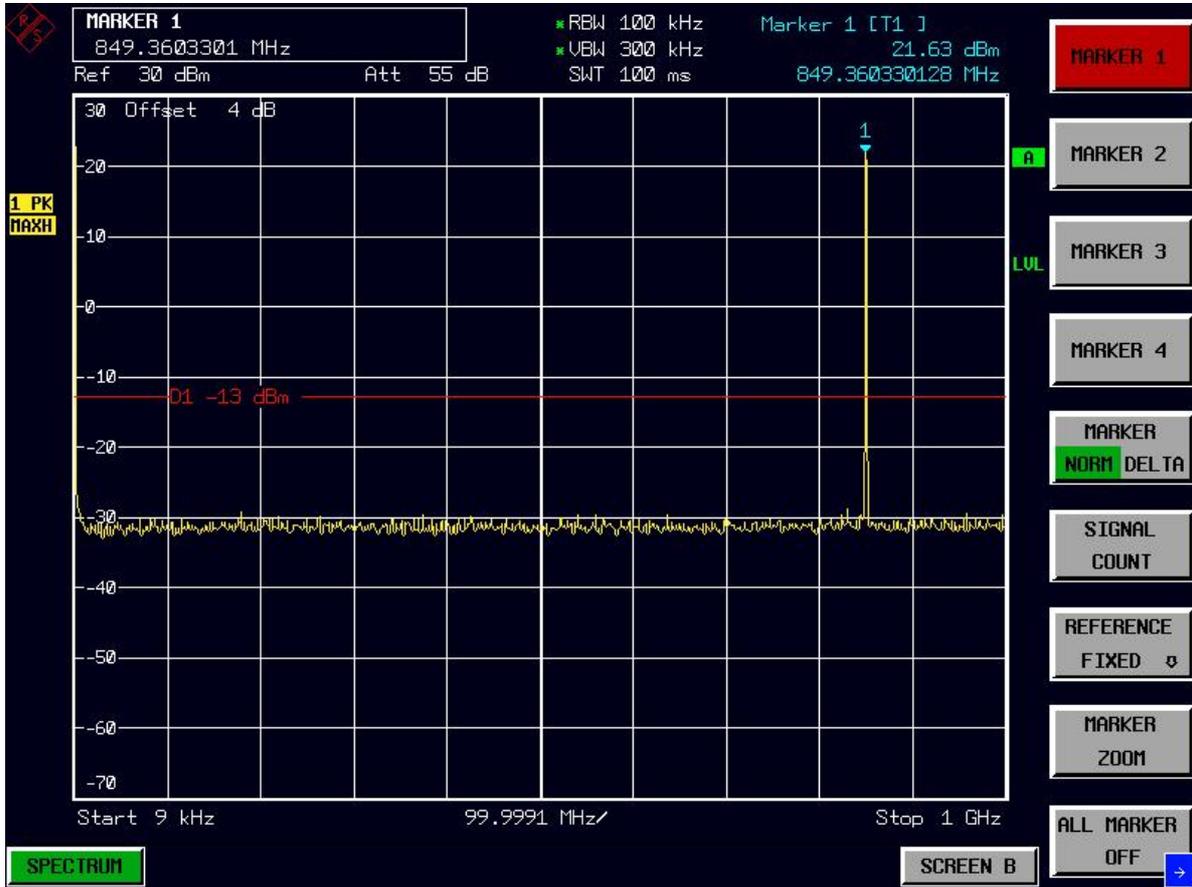
Channel 283

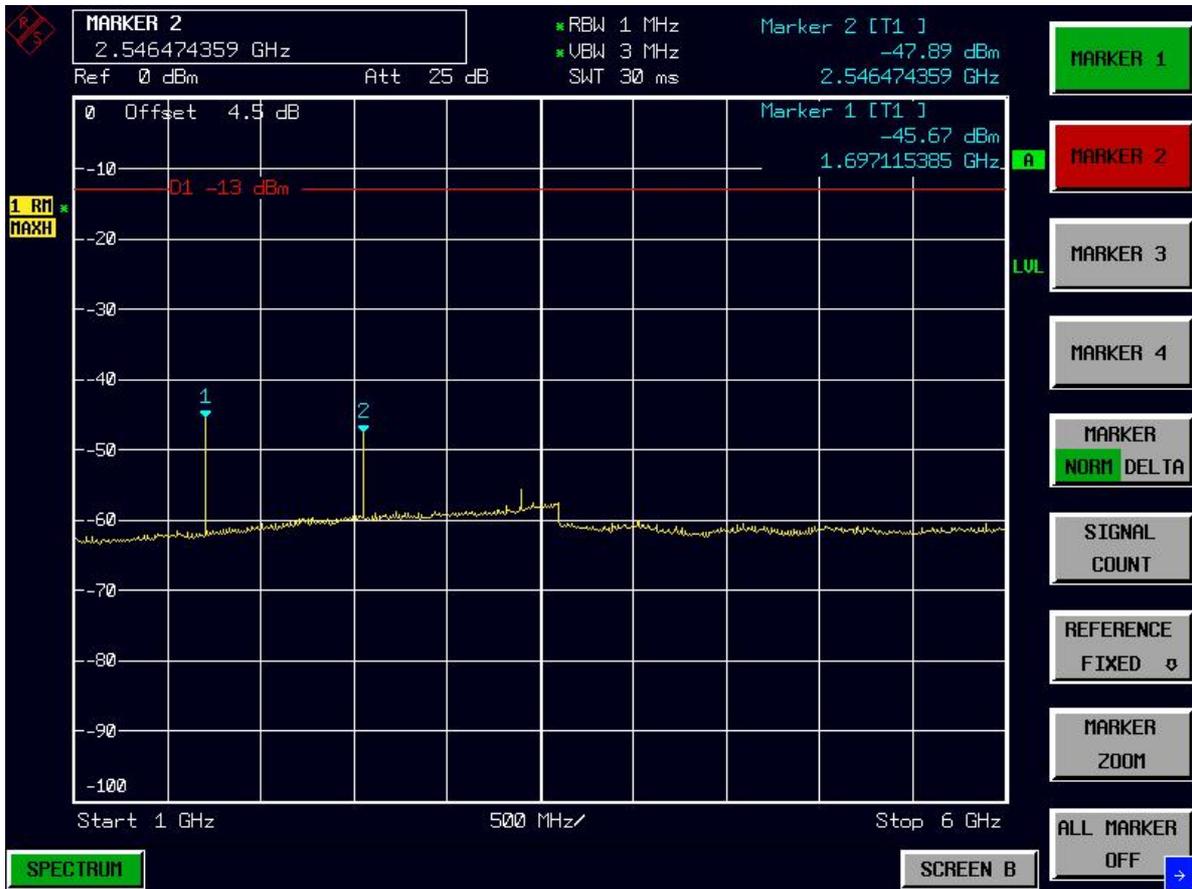


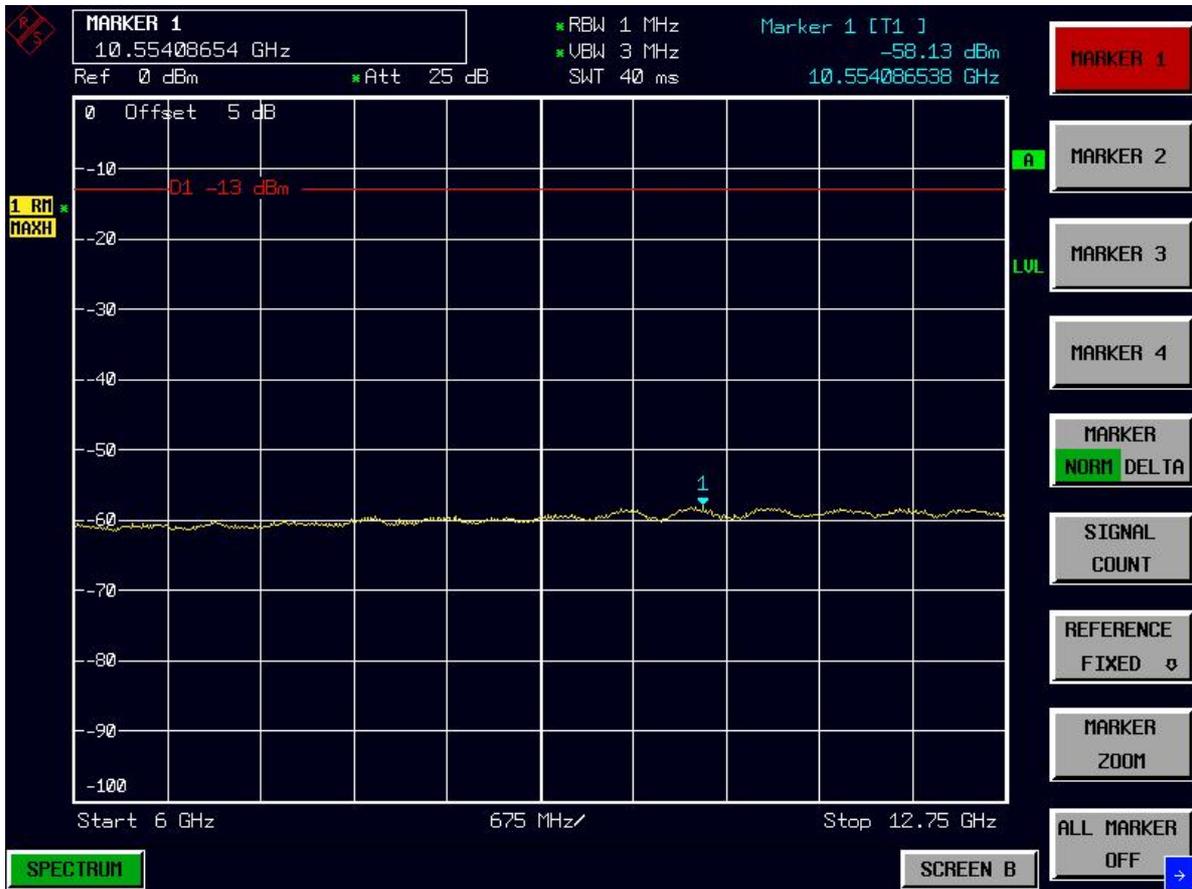




Channel 777

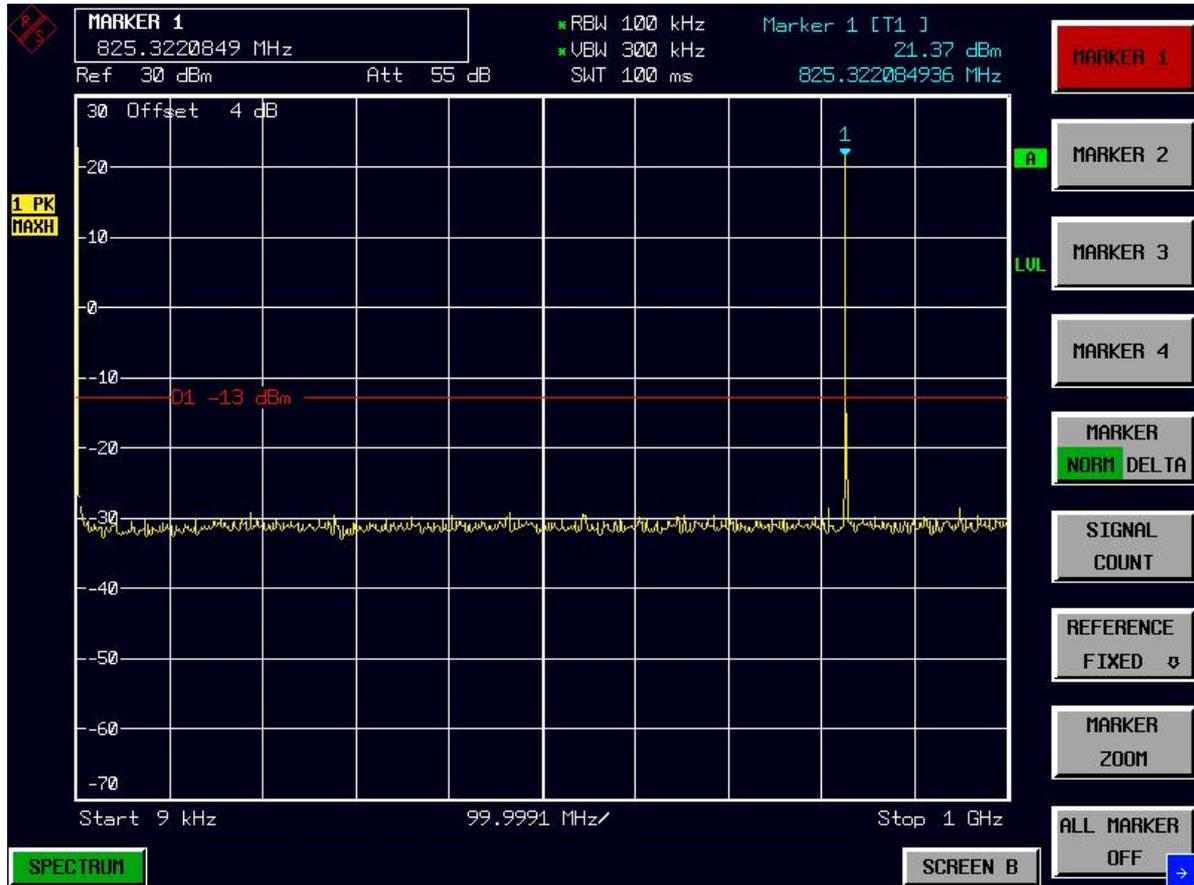


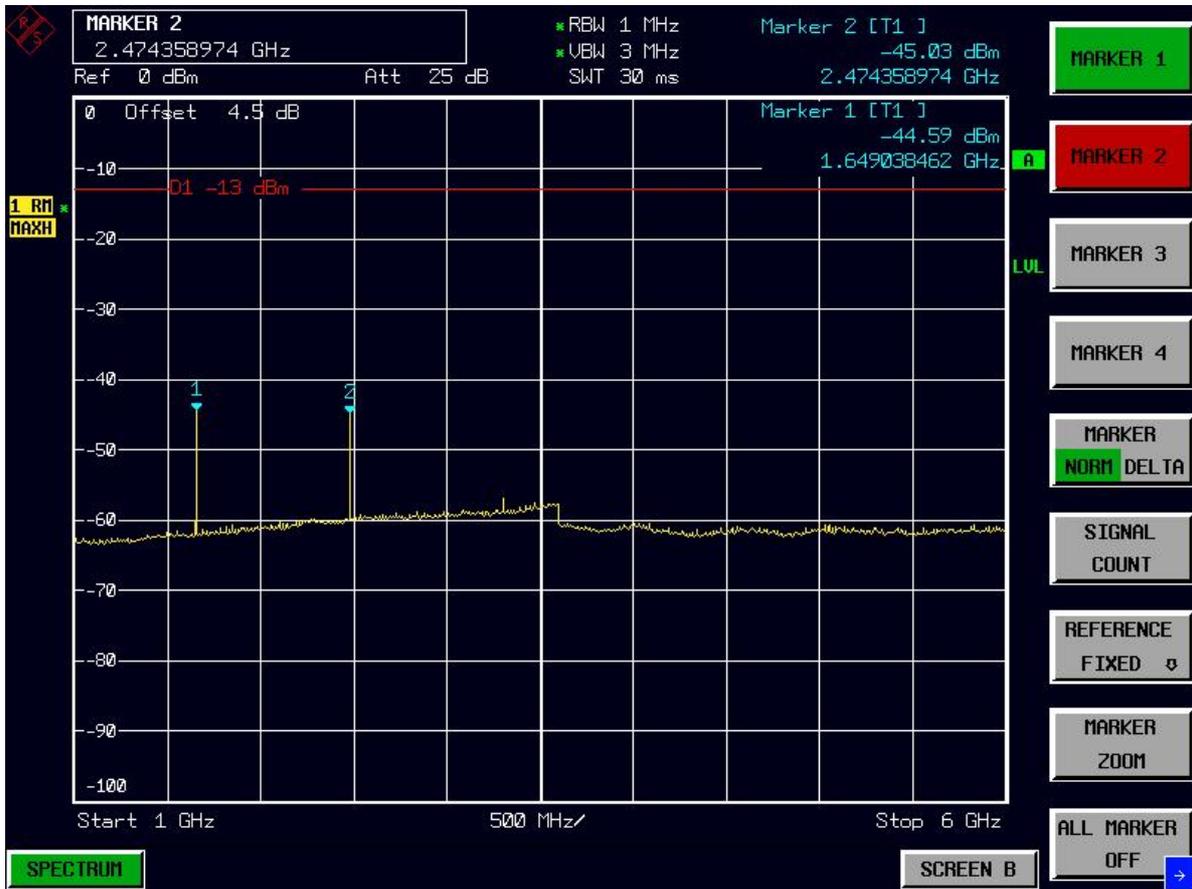


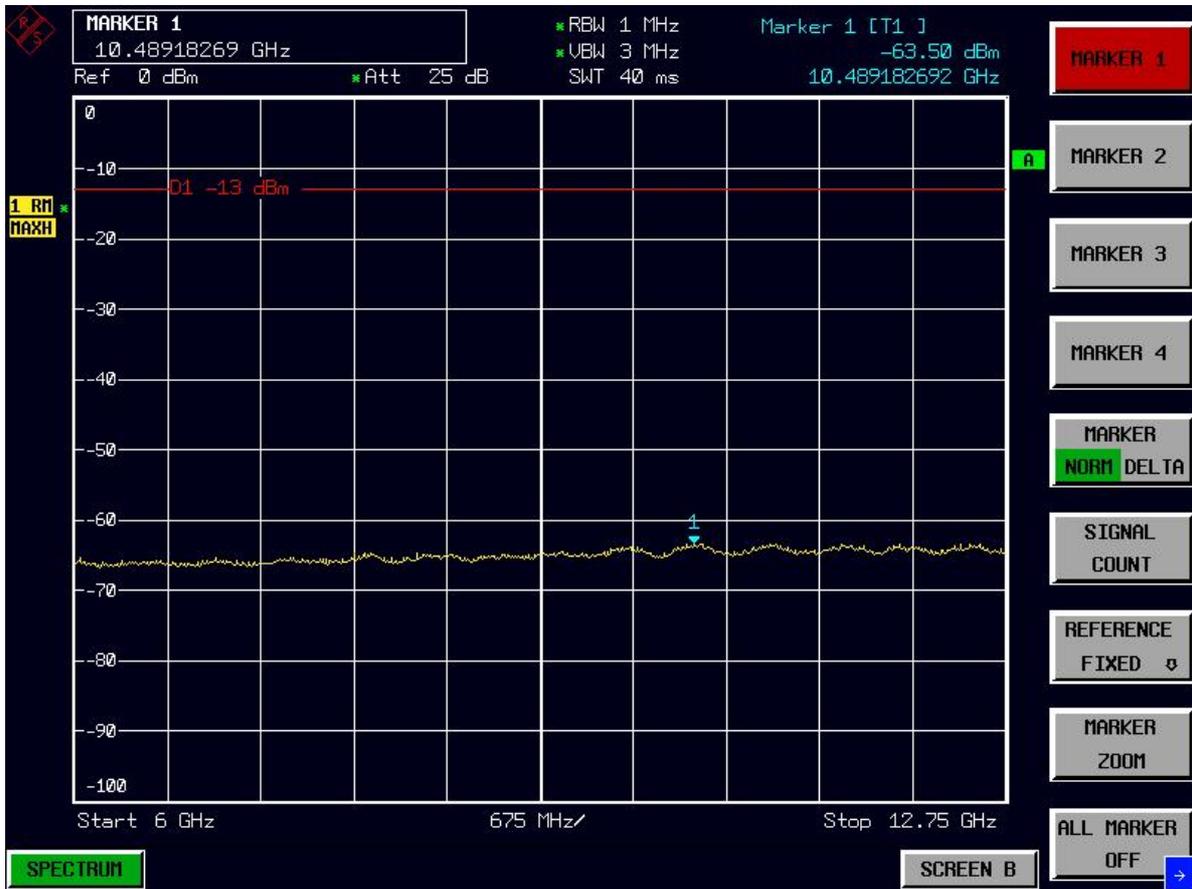


1.2 TM3

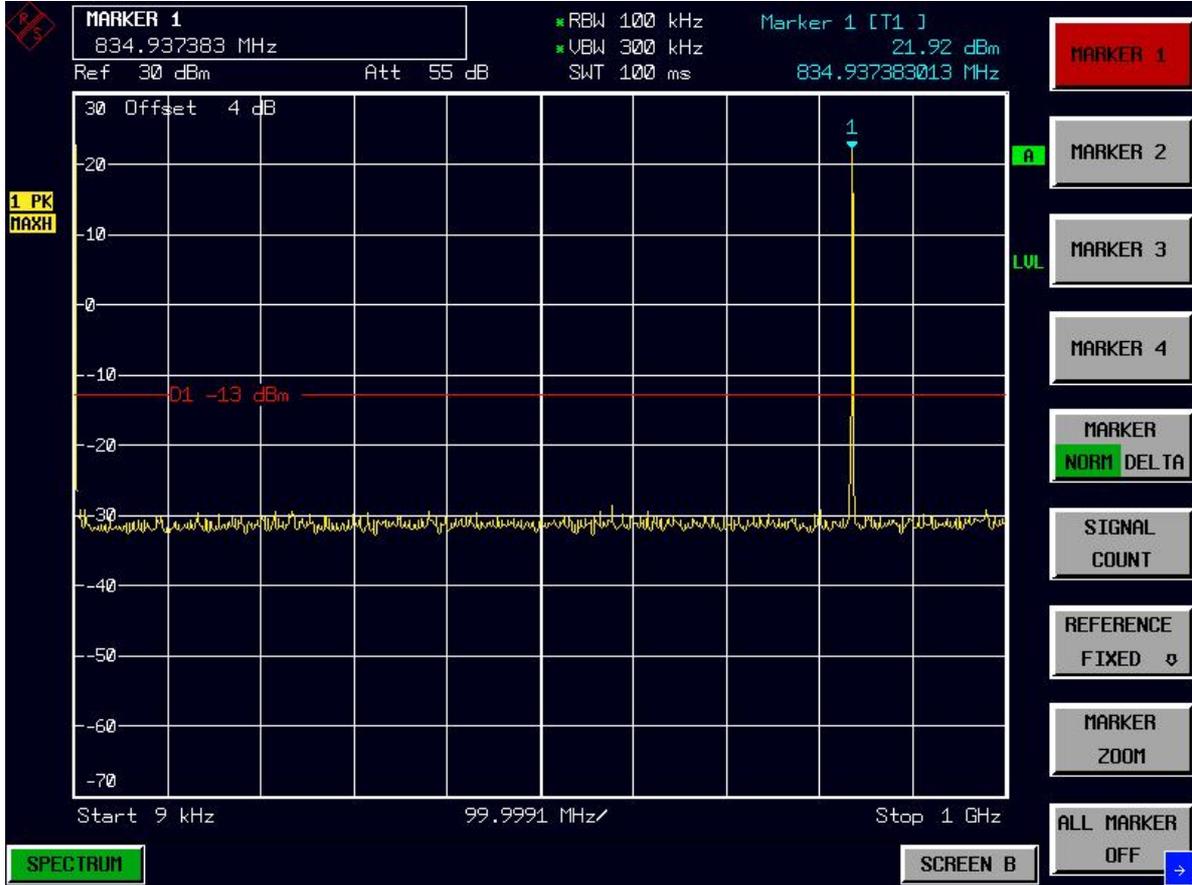
Channel 1013

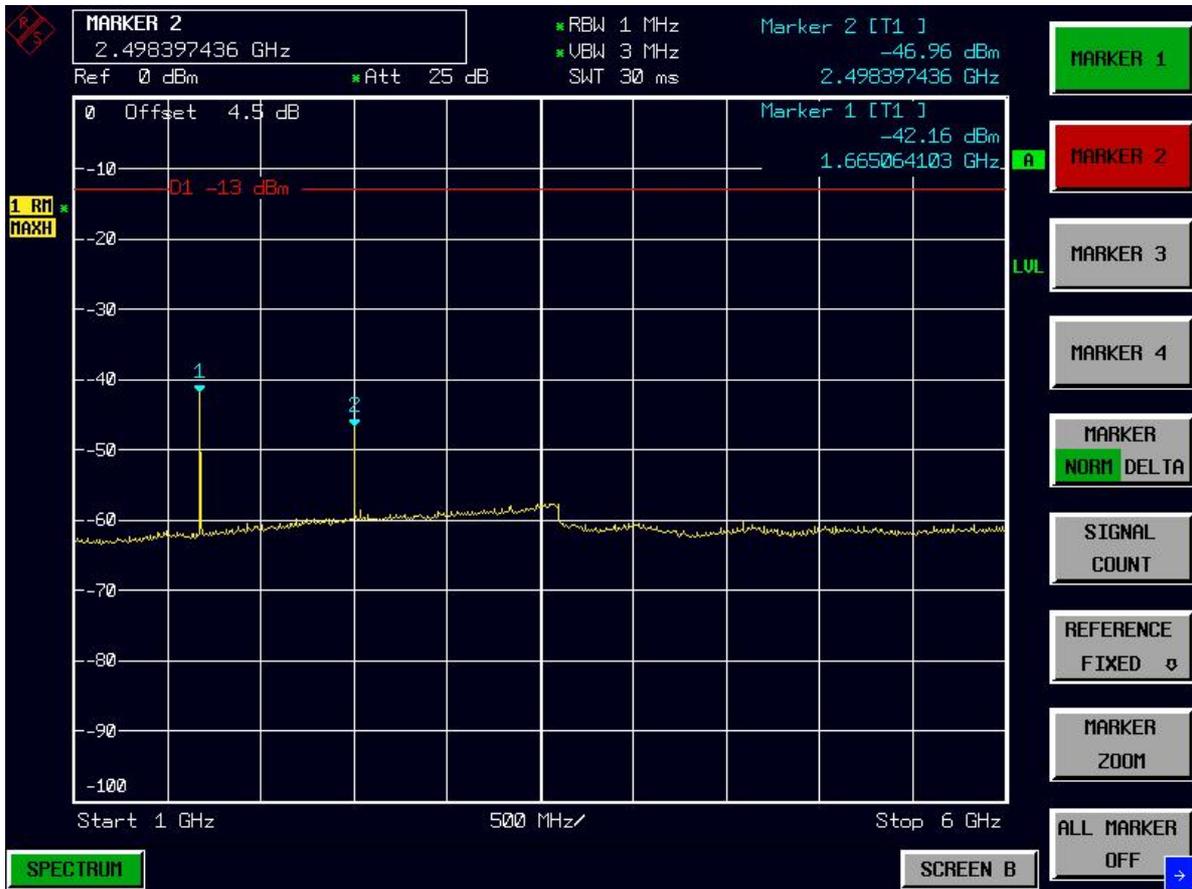


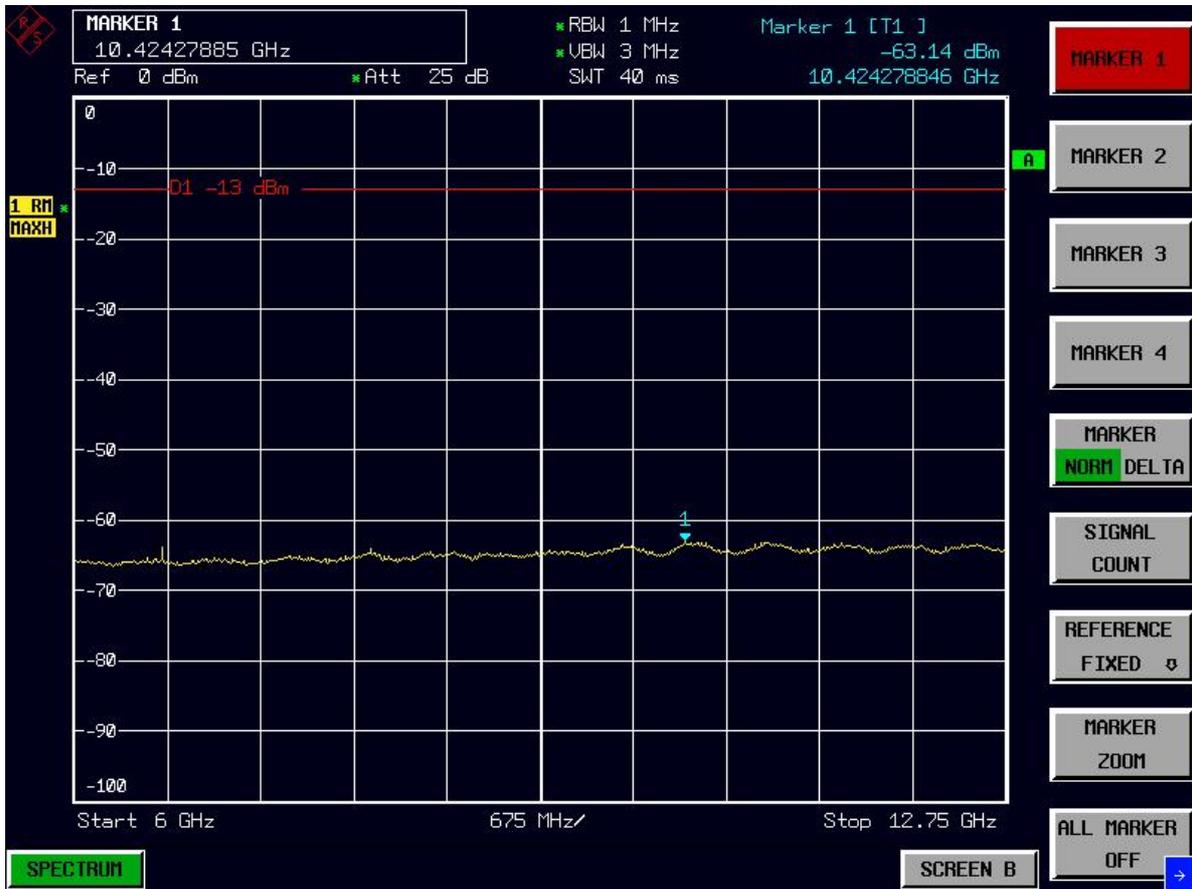




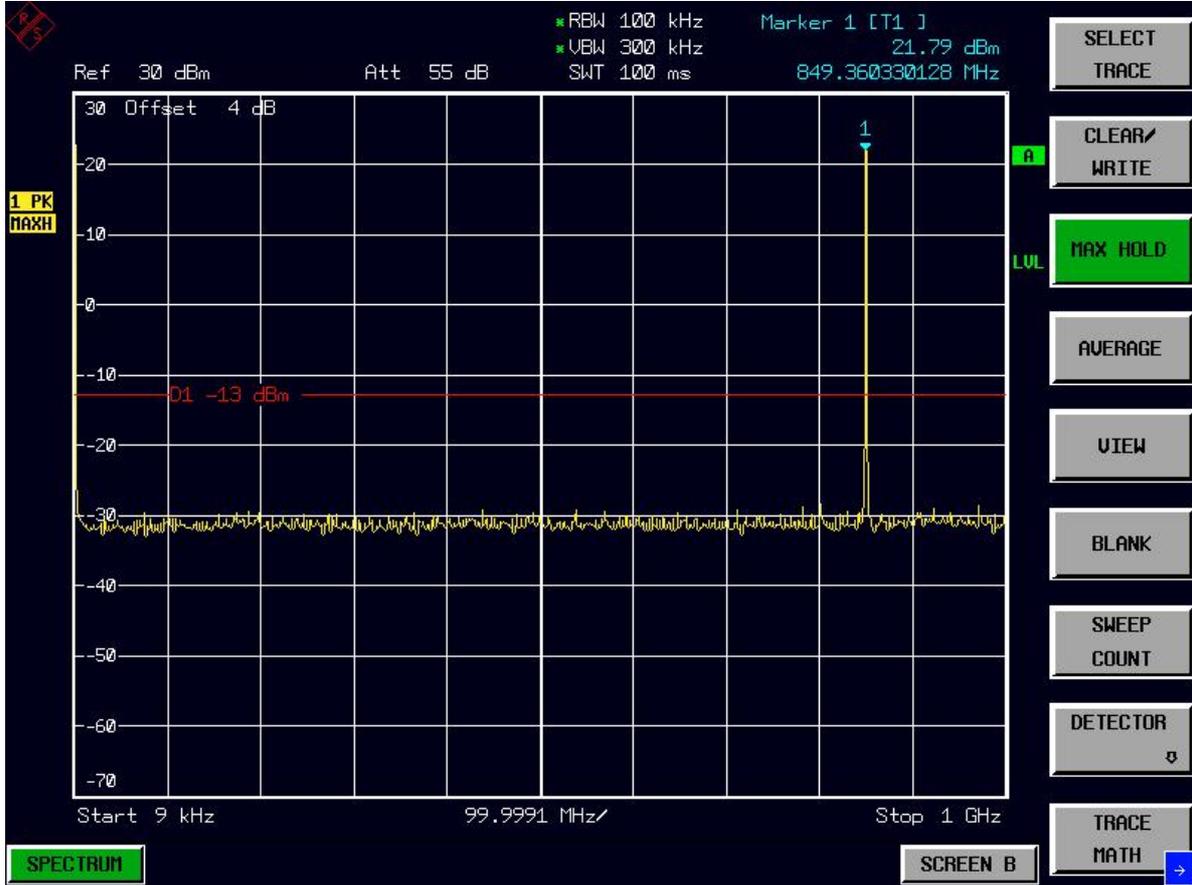
Channel 283

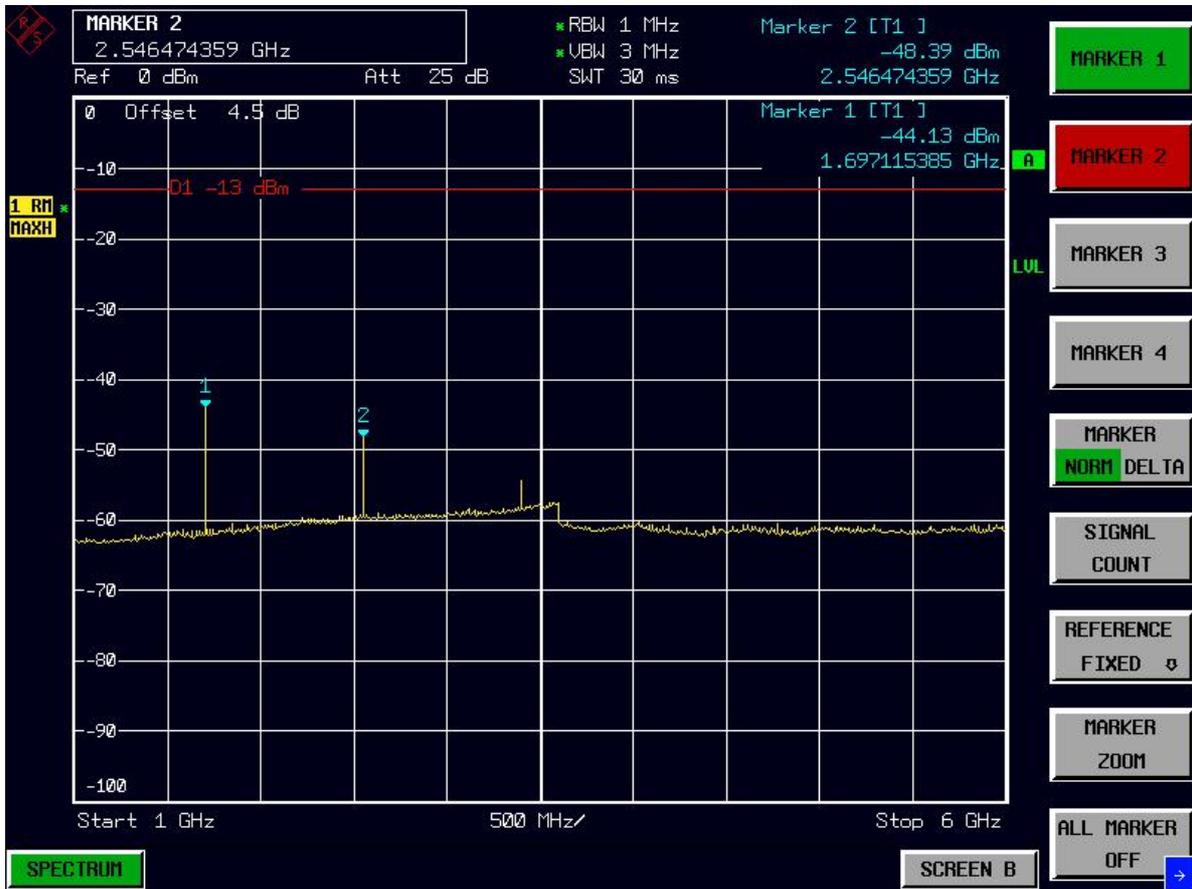


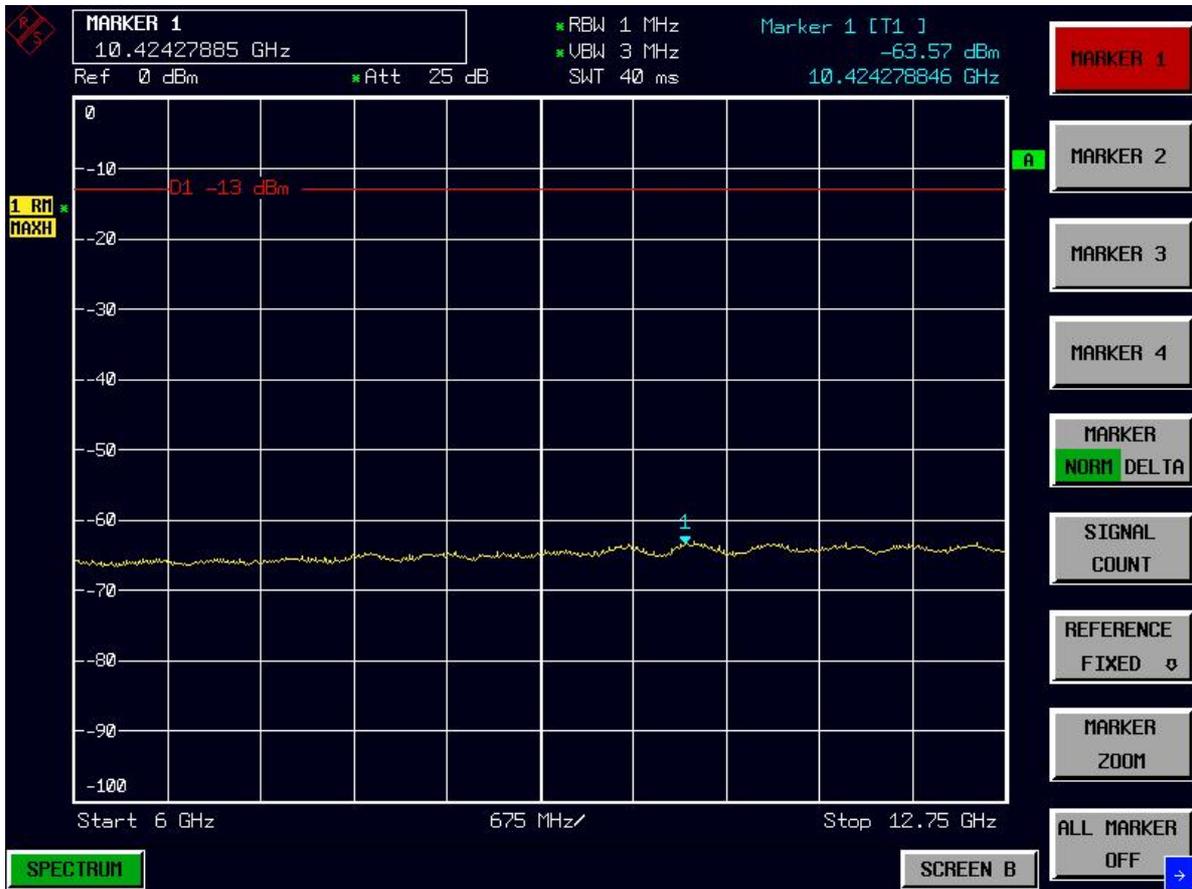




Channel 777





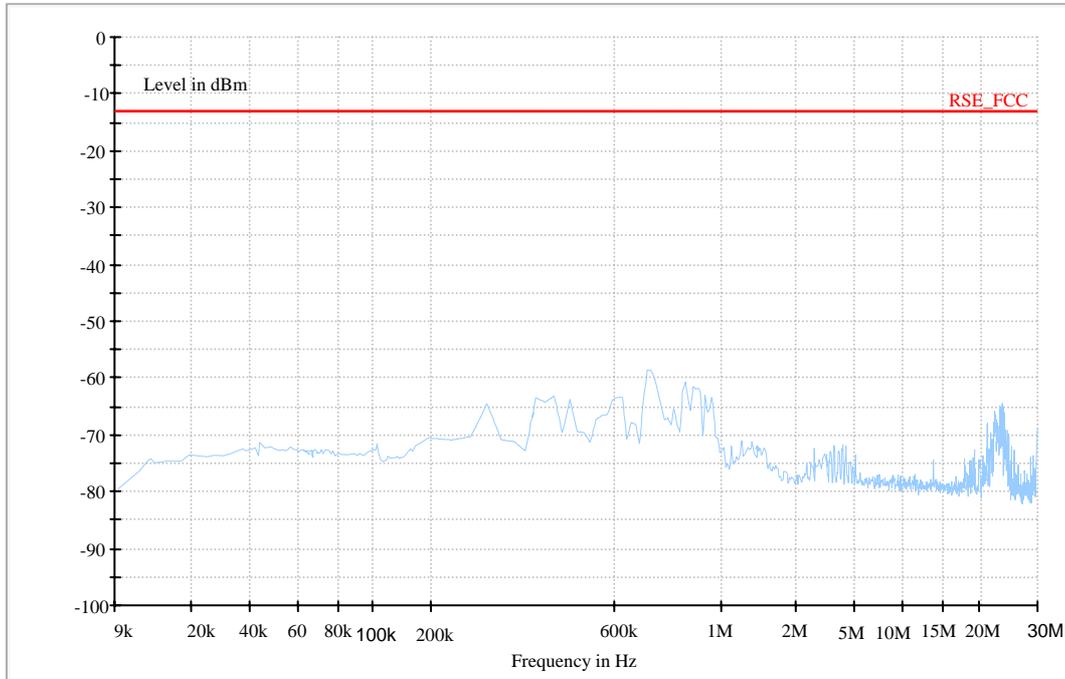


Appendix F

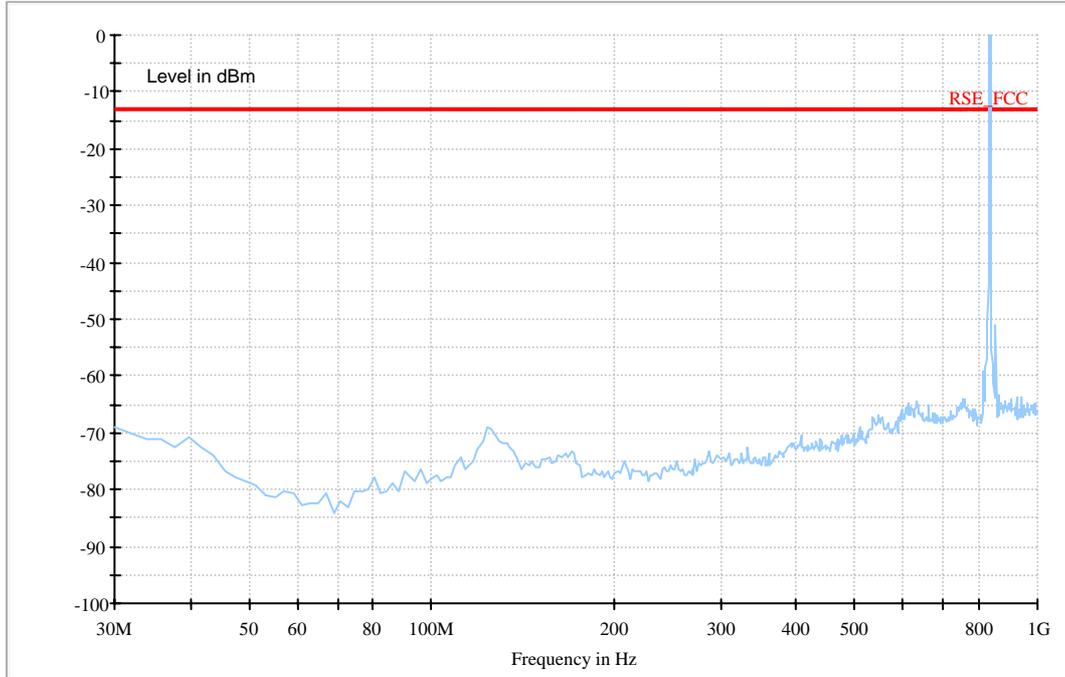
Field Strength of Spurious Radiation

According to CFR 47 (FCC) part 2.1053 & 22.917

Traffic Mode (9kHz-30MHz)

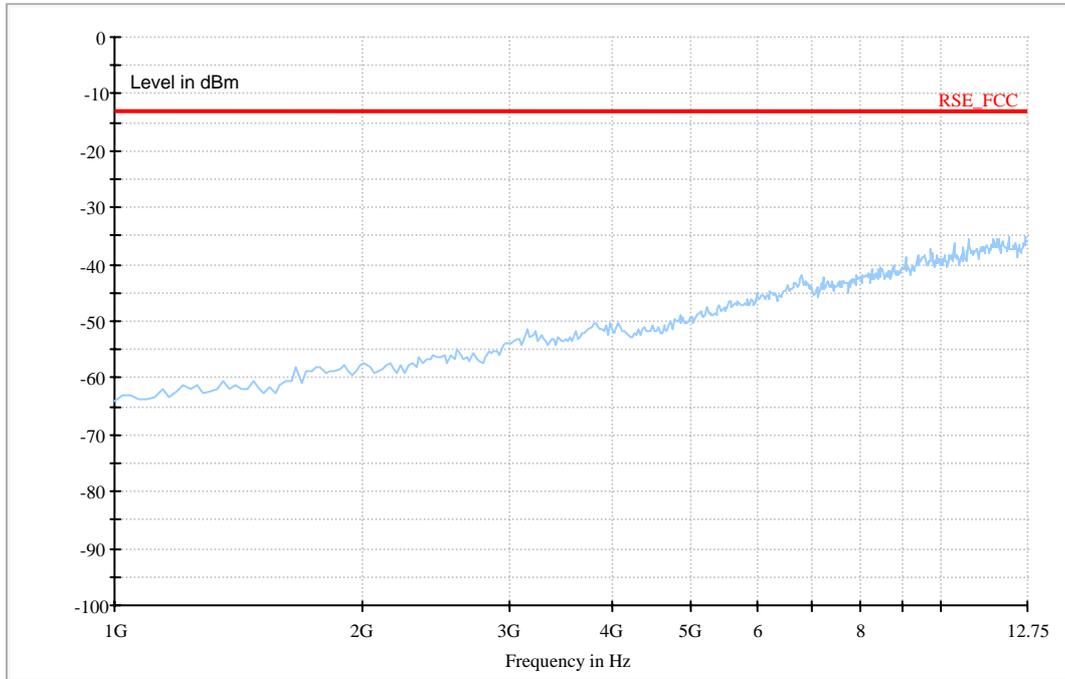


Traffic Mode (30MHz-1GHz)

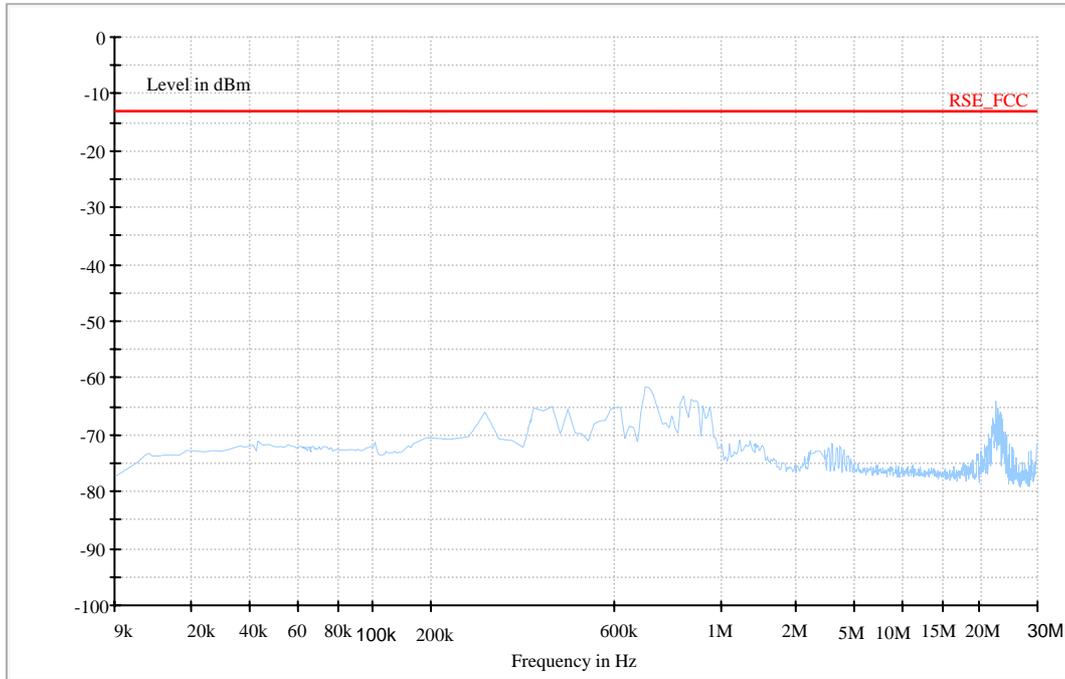


Note: The frequency which exceeded the limit was the carrier frequency.

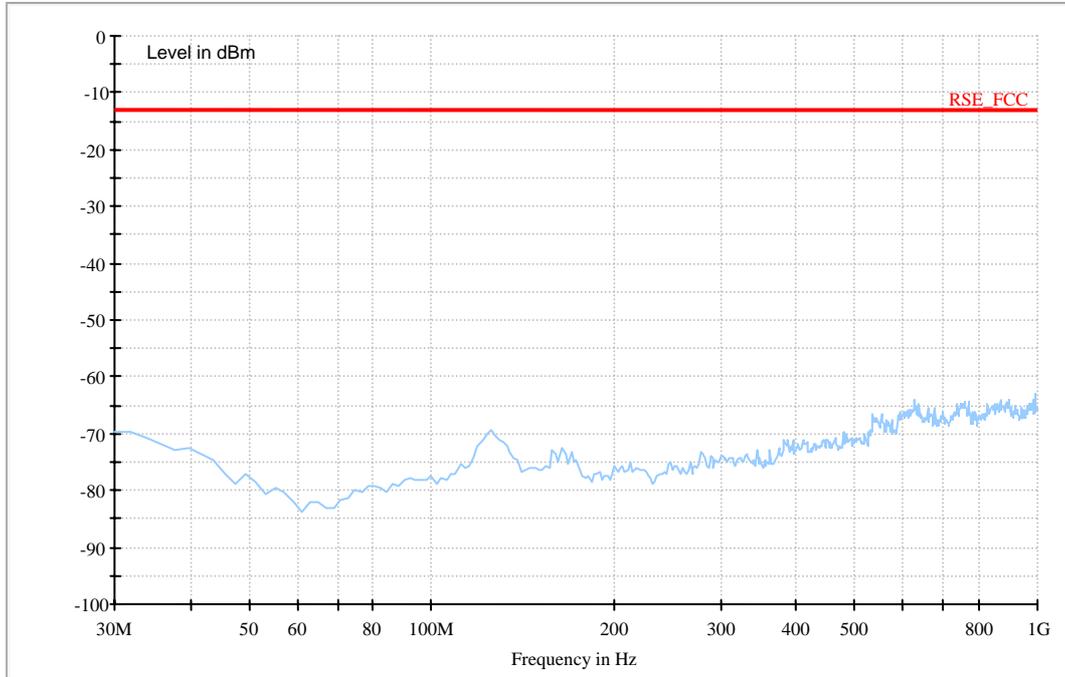
Traffic Mode (1GHz-12.75GHz)



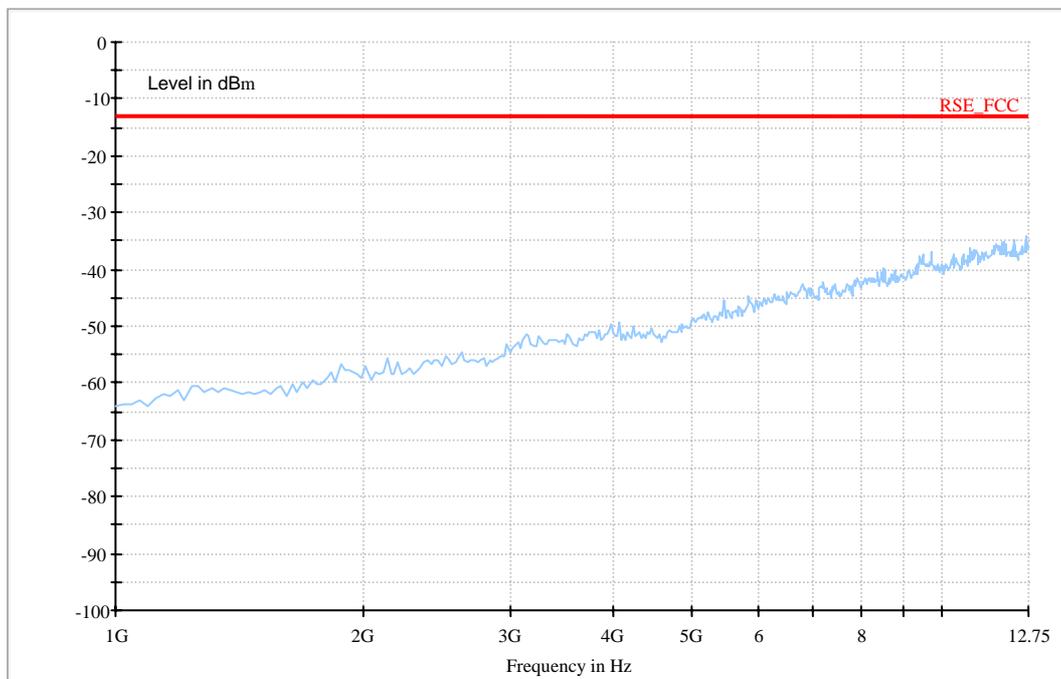
IDLE Mode (9 kHz-30MHz)



IDLE Mode (30MHz-1GHz)



IDLE Mode (1GHz-12.75GHz)

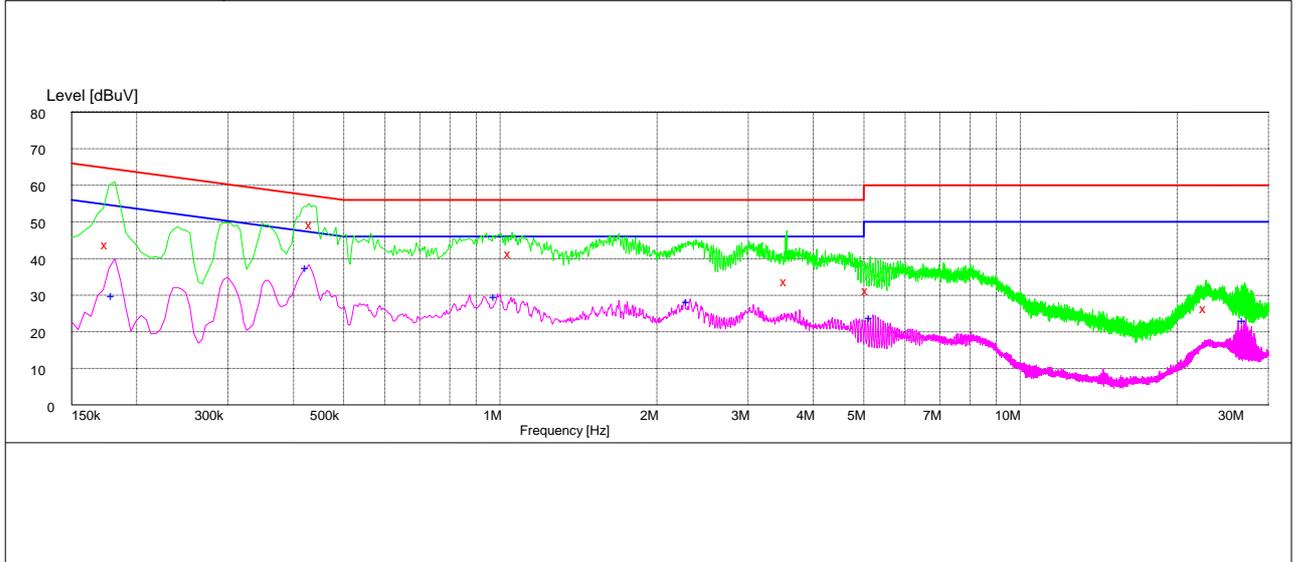


Appendix G

Conducted Emission at Power Port

According to CFR 47 (FCC) part 15.107

Test data for Adapter 1



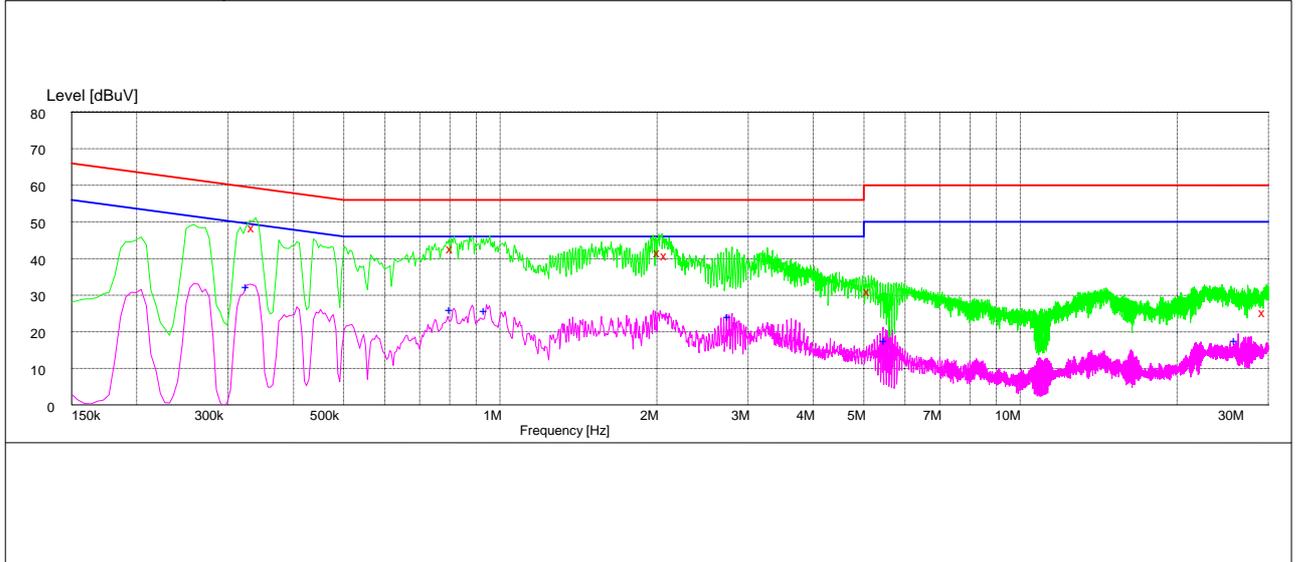
MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.177000	44.10	10.7	65	20.5	N	GND
0.438000	49.70	10.0	57	7.4	L3	GND
1.054500	41.80	9.9	56	14.2	L3	GND
3.574500	34.20	10.0	56	21.8	N	GND
5.136000	31.60	10.1	60	28.4	L3	GND
22.897500	26.70	15.5	60	33.3	L3	GND

MEASUREMENT RESULT: AV DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.181500	30.40	10.7	54	24.0	N	GND
0.429000	38.10	10.0	47	9.2	L3	GND
0.987000	30.00	9.9	46	16.0	L3	GND
2.319000	28.80	10.1	46	17.2	L3	GND
5.212500	24.30	10.2	50	25.7	L3	GND
27.123000	23.40	13.7	50	26.6	L3	GND

Test data for Adapter 2



MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.339000	48.80	10.2	59	10.4	L3	GND
0.816000	43.10	9.9	56	12.9	L3	GND
2.040000	42.20	10.1	56	13.8	L3	GND
2.107500	41.30	10.1	56	14.7	L3	GND
5.163000	31.50	10.1	60	28.5	L3	GND
29.742000	25.60	13.7	60	34.4	N	GND

MEASUREMENT RESULT: AV DECTER

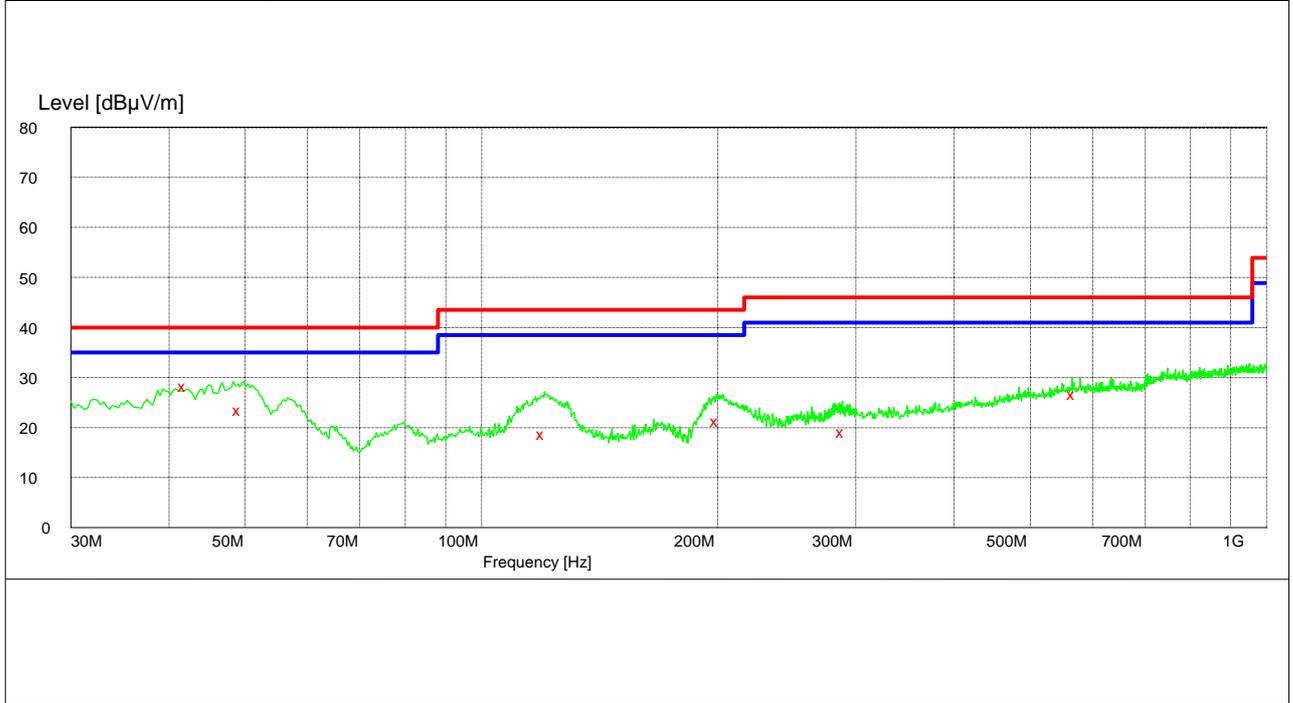
Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.330000	32.90	10.2	50	16.5	L3	GND
0.811500	26.50	9.9	46	19.5	L3	GND
0.946500	26.30	9.9	46	19.7	L3	GND
2.782500	24.70	10.1	46	21.3	L3	GND
5.559000	18.10	10.2	50	31.9	N	GND
26.232000	18.20	14.2	50	31.8	L3	GND

Appendix H

Radiated Emission of Enclosure in Idle Mode

According to CFR 47 (FCC) part 15.109

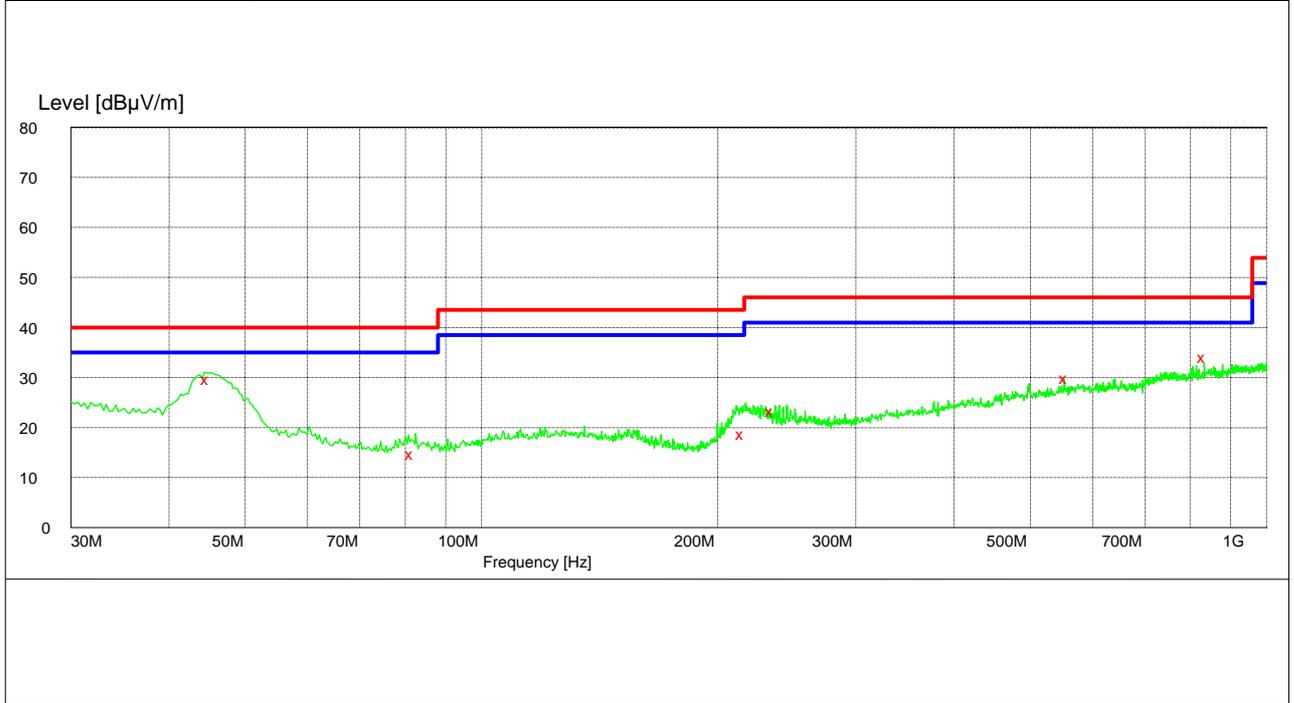
Test data for Adapter 1



MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
42.000000	28.40	-12.9	40.0	11.6	100.0	235.00	VERTICAL
49.320000	23.70	-16.2	40.0	16.3	100.0	338.00	VERTICAL
120.180000	18.90	-12.1	43.5	24.6	266.0	0.00	HORIZONTAL
289.260000	19.20	-9.2	46.0	26.8	100.0	0.00	HORIZONTAL
569.700000	26.90	-3.6	46.0	25.1	100.0	0.00	VERTICAL
200.160000	21.50	-14.1	43.5	22.0	128.0	270.00	HORIZONTAL

Test data for Adapter 2



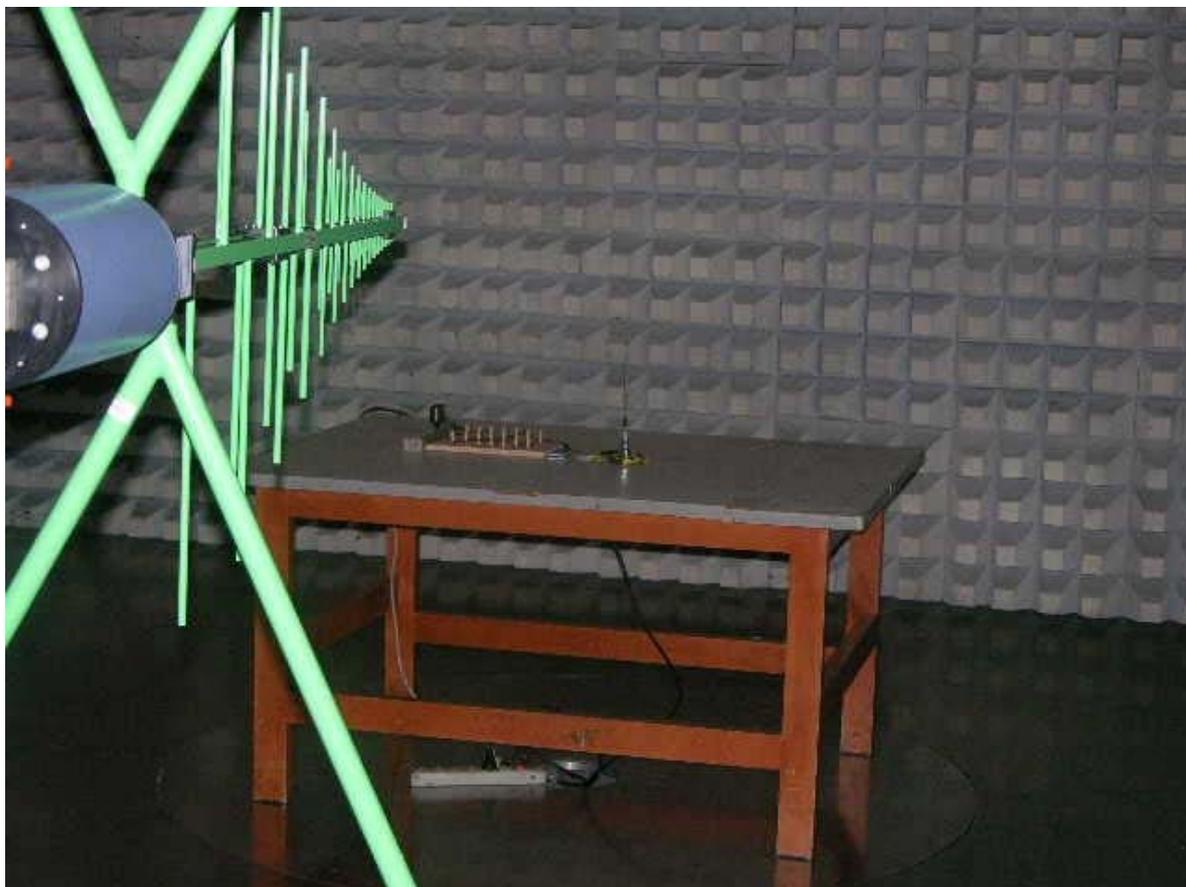
MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
44.880000	29.80	-14.2	40.0	10.2	100.0	237.00	VERTICAL
81.840000	14.90	-16.8	40.0	25.1	128.0	30.00	VERTICAL
215.700000	18.90	-14.1	43.5	24.6	100.0	330.00	HORIZONTAL
234.960000	23.40	-12.1	46.0	22.6	206.0	163.00	VERTICAL
556.980000	30.00	-3.8	46.0	16.0	100.0	90.00	HORIZONTAL
835.380000	34.20	-0.7	46.0	11.8	100.0	0.00	VERTICAL

Appendix I

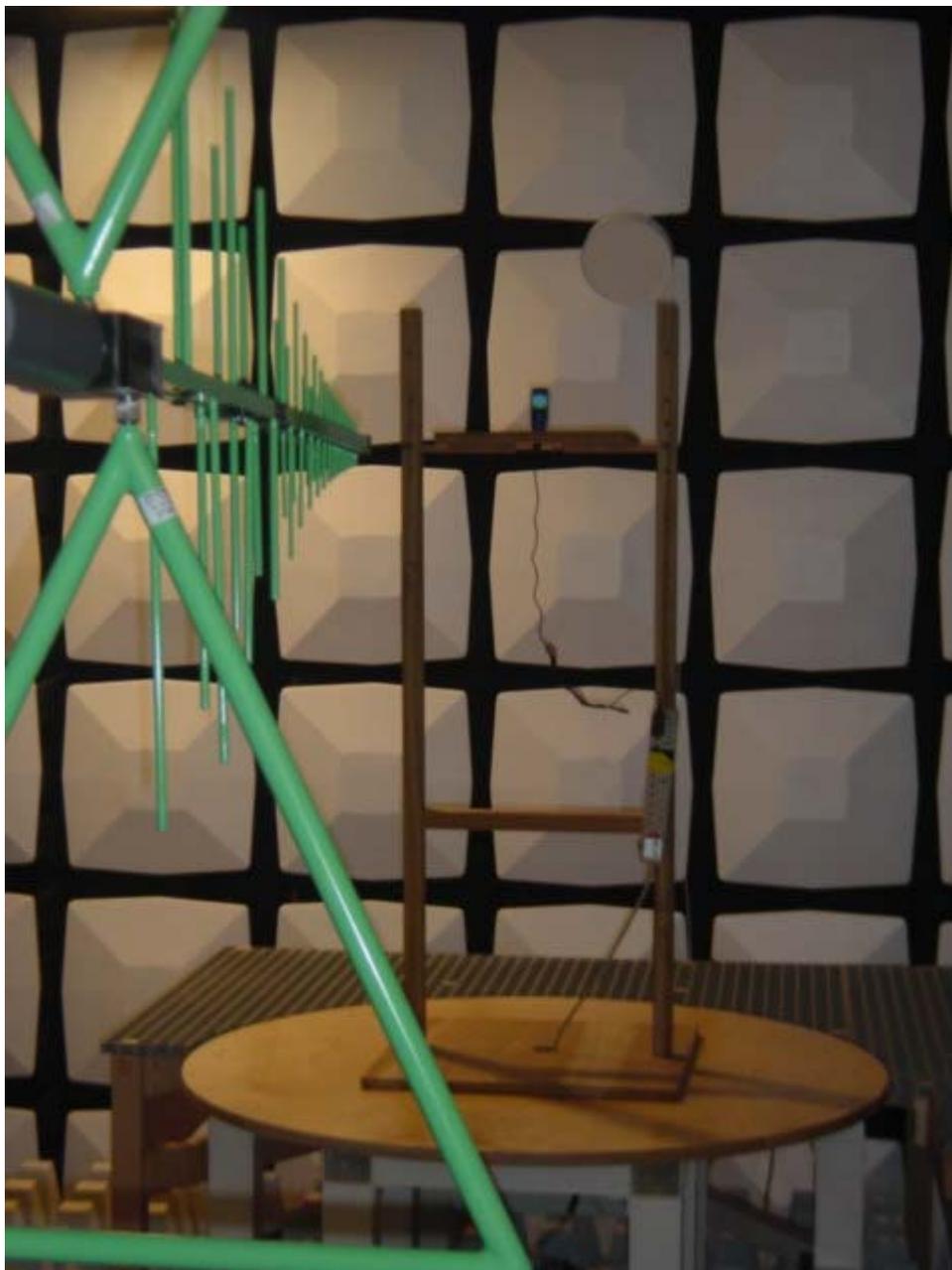
Photos of Test Setup

2 Radiated Emissions



Radiated Disturbance

3 Radiated Spurious Emissions

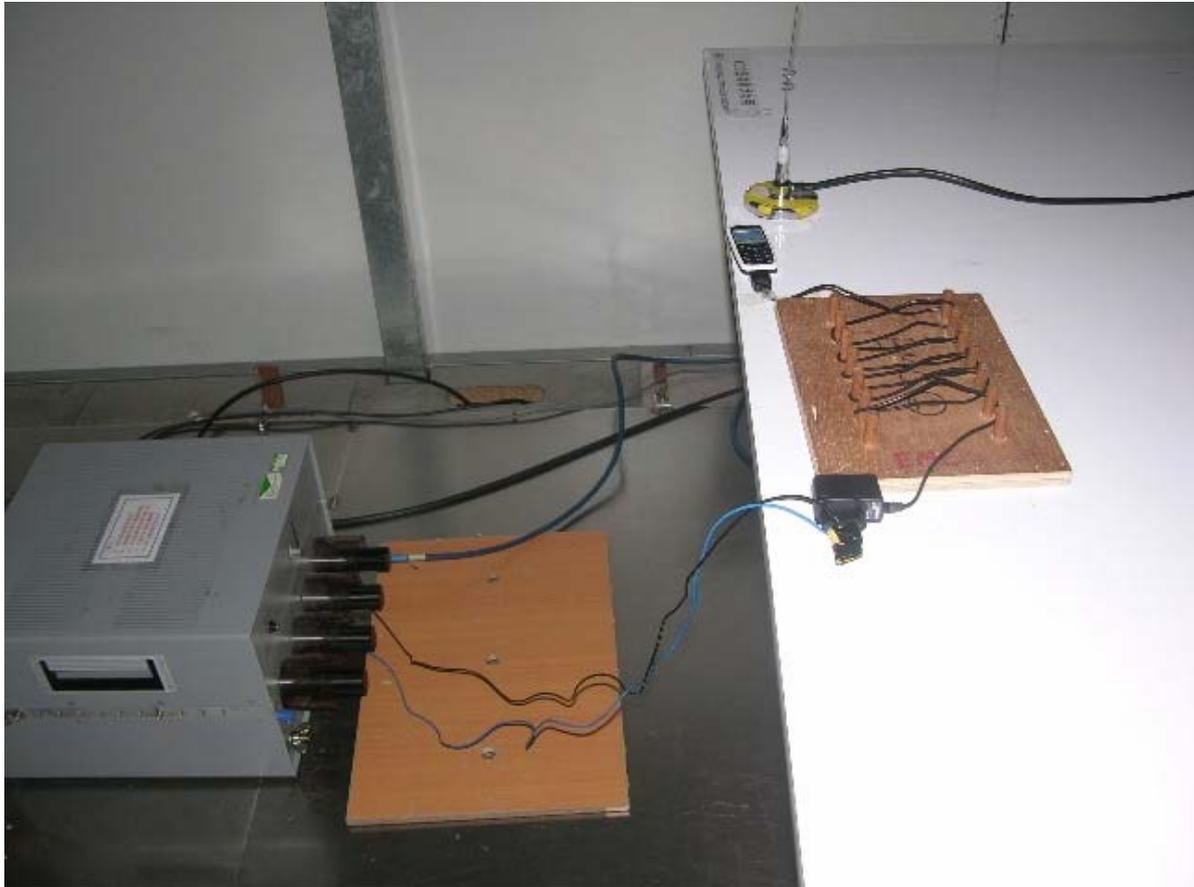


Radiated Spurious Emission (below 1GHz)



Radiated Spurious Emission (above 1GHz)

4 Conducted Emissions



Conducted Emissions for AC Ports