

## Appendix A

# Channel Power Measurement

According to CFR 47 (FCC) part 2.1046 & 22.913

## Channel 1013

TM1:

Measurement/Instrument Screen									
Control	Maximum/Minimum Power						Call Params		
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <p><b>23.81</b></p> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <p><b>-63.14</b></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		
							Cell Band		
							US Cellular		
							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 Parm	
Max/Min Power Setup ▾		Maximum Power		Minimum Power				Cell 1 Power	
		23.83		-63.03				-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 Parm								
Max/Min Power Setup ▾	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Maximum Power</p> <p><b>23.55</b></p> <p>dBm</p> </div> <div style="text-align: center;"> <p>Minimum Power</p> <p><b>-61.78</b></p> <p>dBm/1.23 MHz</p> </div> </div>						Cell 1 Power								
Maximum Power Setup ▾							-25.00								
Minimum Power Setup ▾							dBm/1.23 MHz								
	<div style="display: flex; justify-content: space-between;"> <span>Single</span> </div>						Cell Band								
							US Cellular								
							Channel								
							283								
	<div style="display: flex; justify-content: space-between;"> <span>Protocol Rev</span> </div>						6 (IS-2000-0)								
							<div style="display: flex; justify-content: space-between;"> <span>Radio Config</span> </div>						(Fud1, Rus1)		
													S02 (Loopback)		
							<div style="display: flex; justify-content: space-between;"> <span>FCH Service Option Setup ▾</span> </div>						Sys Type: IS-2000		
	Logging: No Conn.														
1 of 2				IntRef	Offset				1 of 4						

TM3:

Measurement/Instrument Screen									
Control		Maximum/Minimum Power						Call Params	
Max/Min Power Setup ▾		Maximum Power			Minimum Power			Cell 1 Power	
		23.69			-61.43			-25.00	
		dBm			dBm/1.23 MHz			dBm/1.23 MHz	
Maximum Power Setup ▾								Cell Band	
								US Cellular	
Minimum Power Setup ▾								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 Parm		
Max/Min Power Setup ▾	Maximum Power		Minimum Power				Cell 1 Power		
	<b>23.89</b>		<b>-60.92</b>				-25.00		
	dBm		dBm/1.23 MHz				dBm/1.23 MHz		
Maximum Power Setup ▾							Cell Band		
							US Cellular		
Minimum Power Setup ▾							Channel		
	Single						777		
							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

TM3:

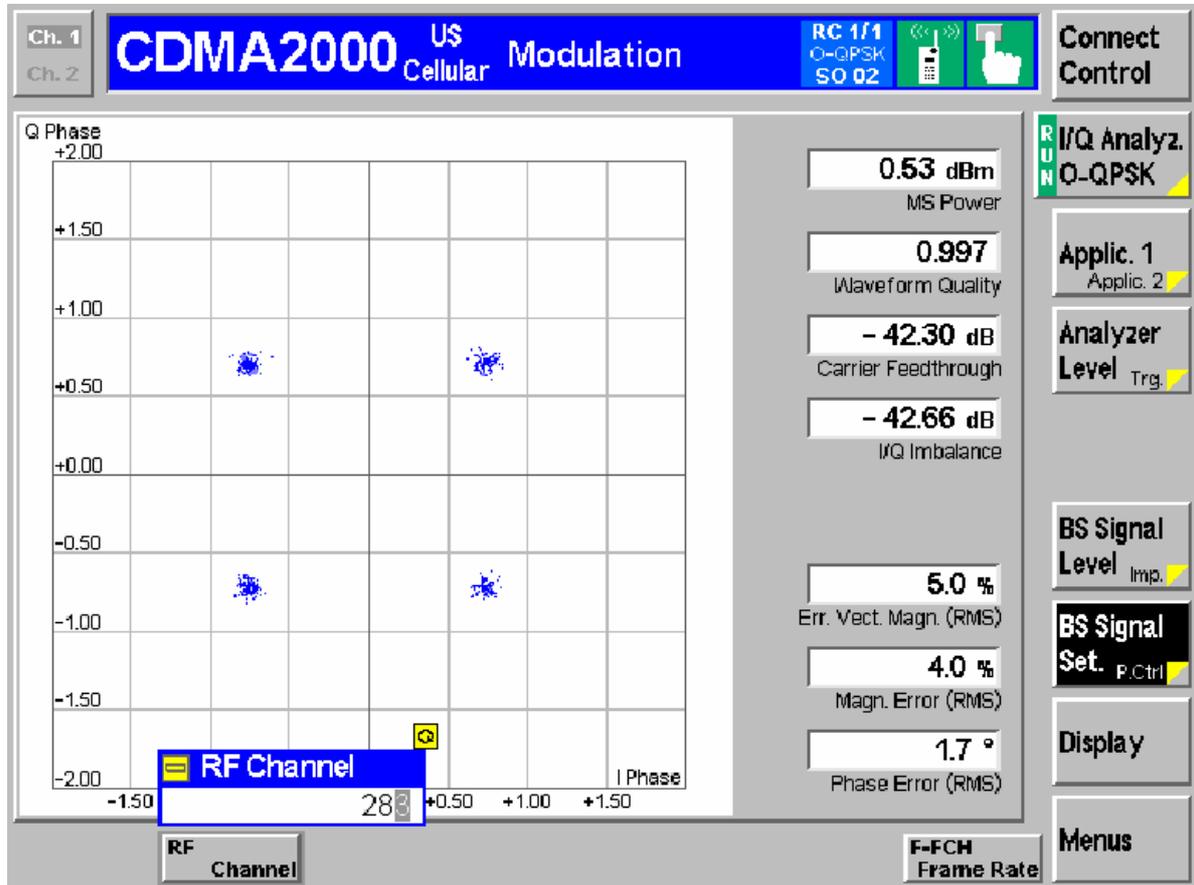
Measurement/Instrument Screen									
Control		Maximum/Minimum Power						Call Params	
Max/Min Power Setup ▾		Maximum Power			Minimum Power			Cell 1 Power	
		23.93			-60.76			-25.00	
		dBm			dBm/1.23 MHz			dBm/1.23 MHz	
Maximum Power Setup ▾								Cell Band	
								US Cellular	
Minimum Power Setup ▾								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

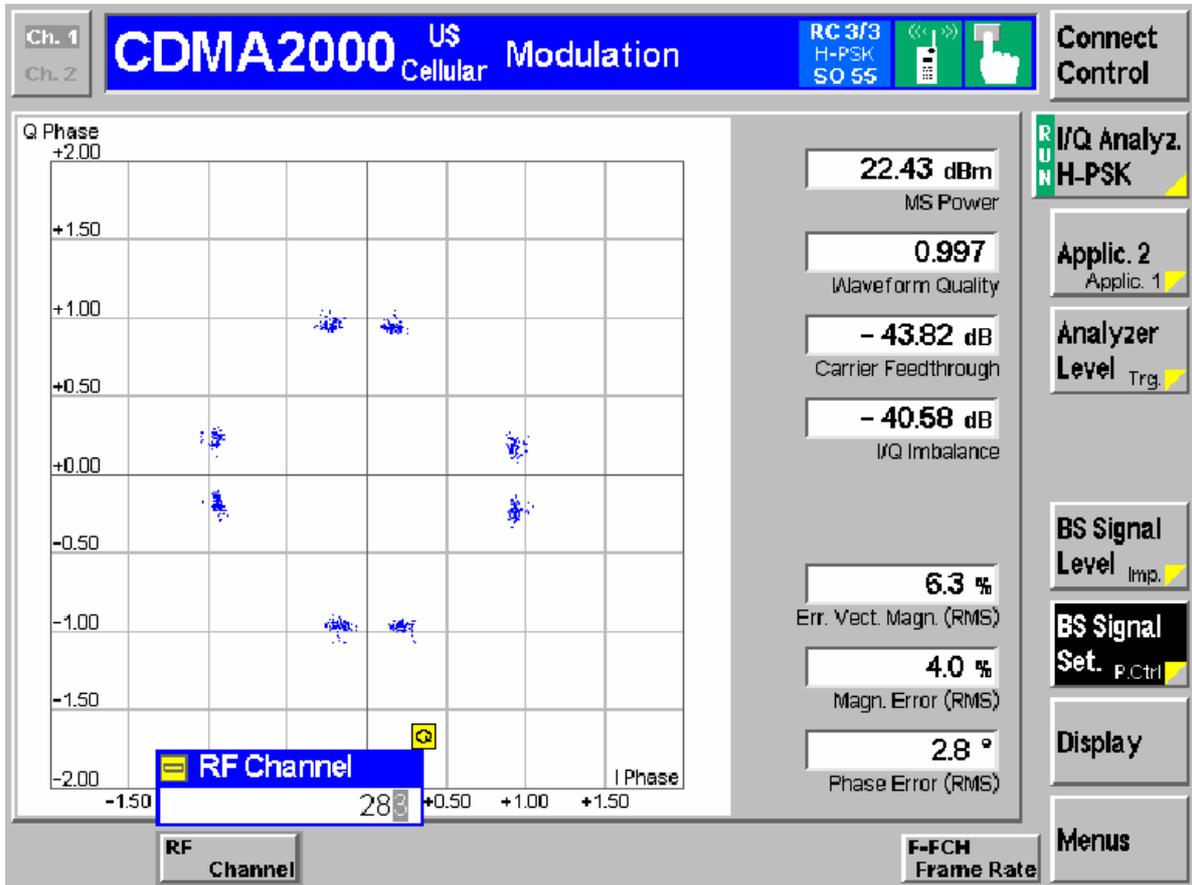
# Modulation Characteristic Measurement

According to CFR 47 (FCC) part 2.1047 & 22.915

### Channel 283 (TM1)



# Channel 283 (TM3)



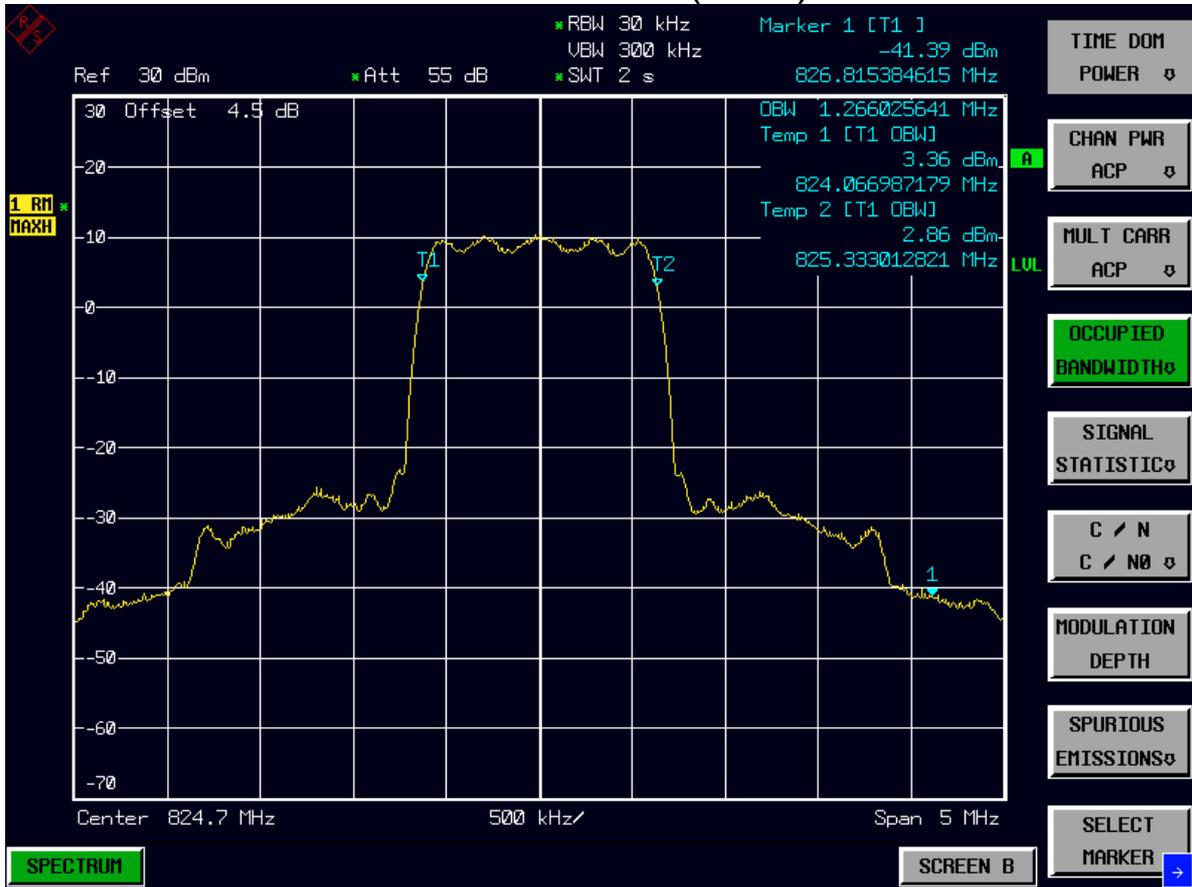
## Appendix C

# Occupied Bandwidth Measurement

According to CFR 47 (FCC) part 2.1049& 22.917

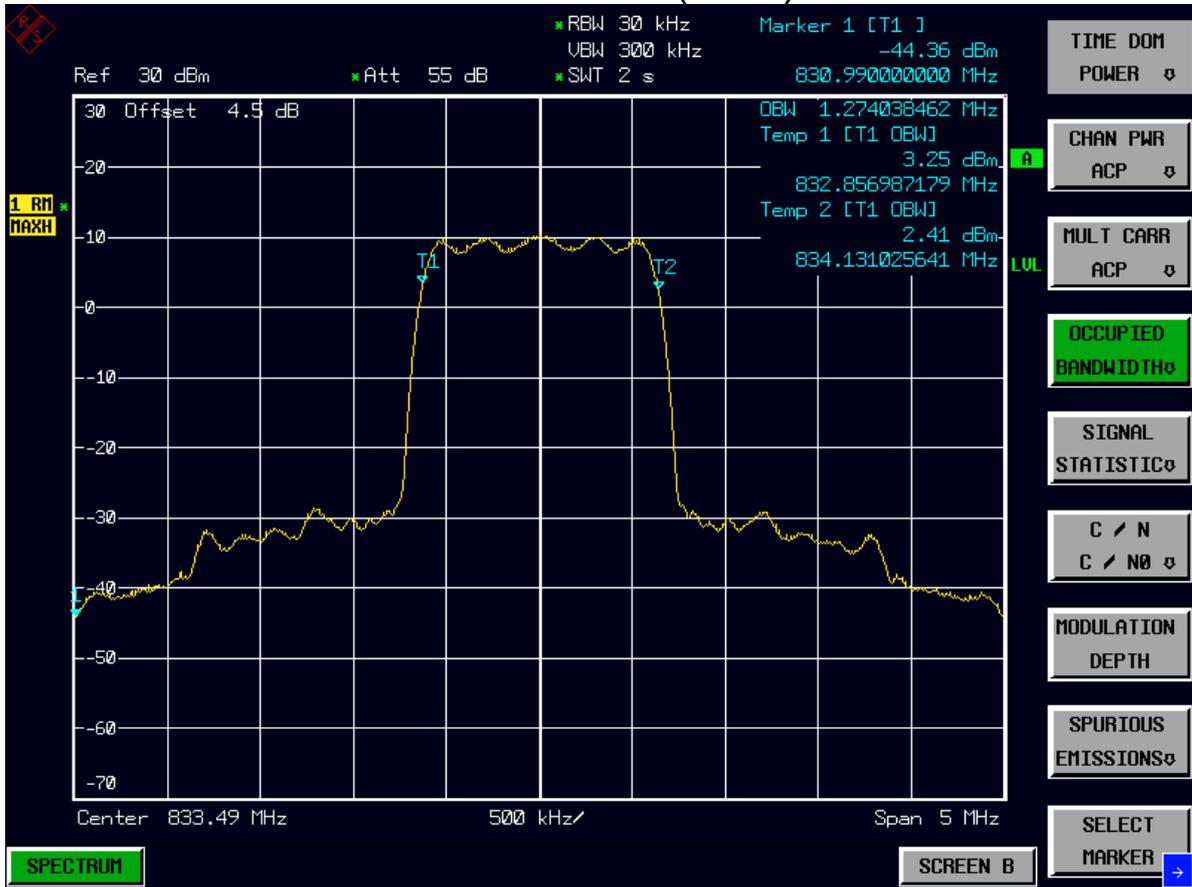


### Channel 1013(TM3)

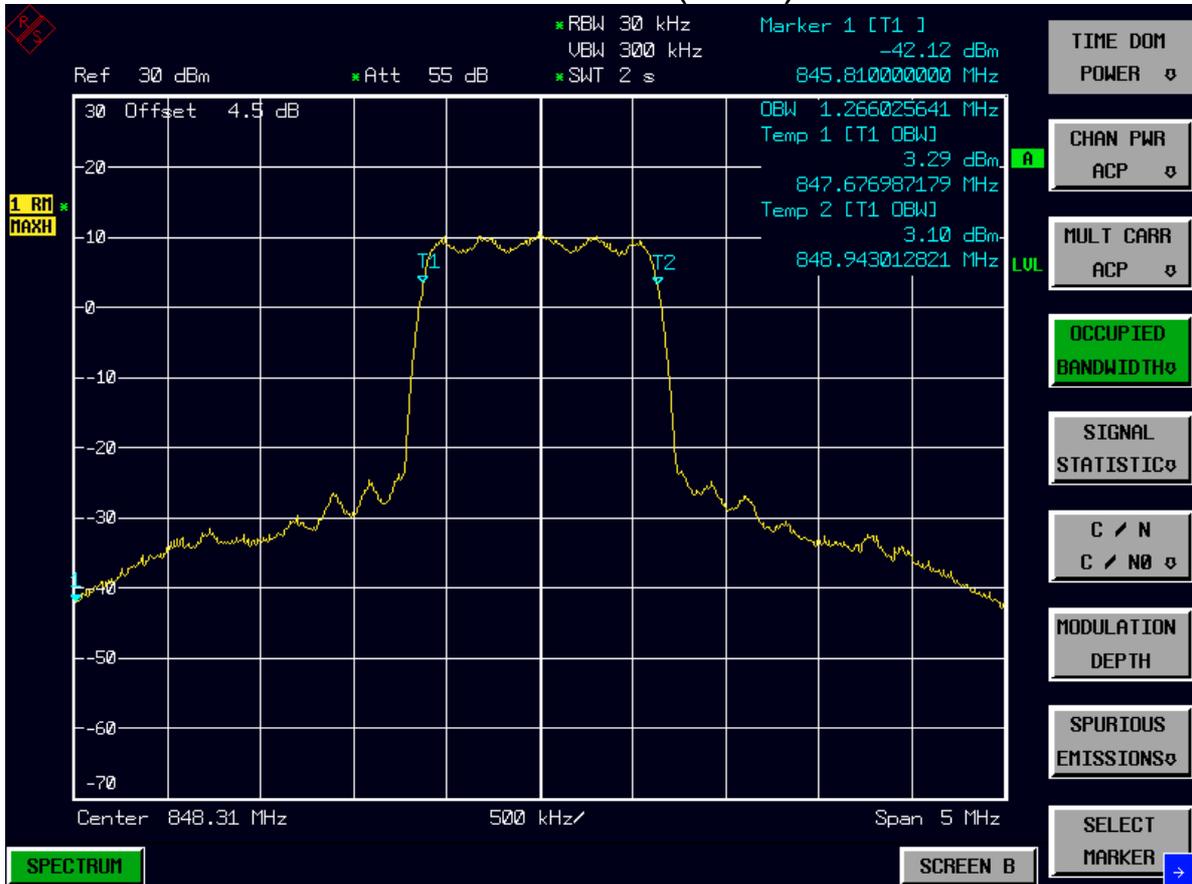




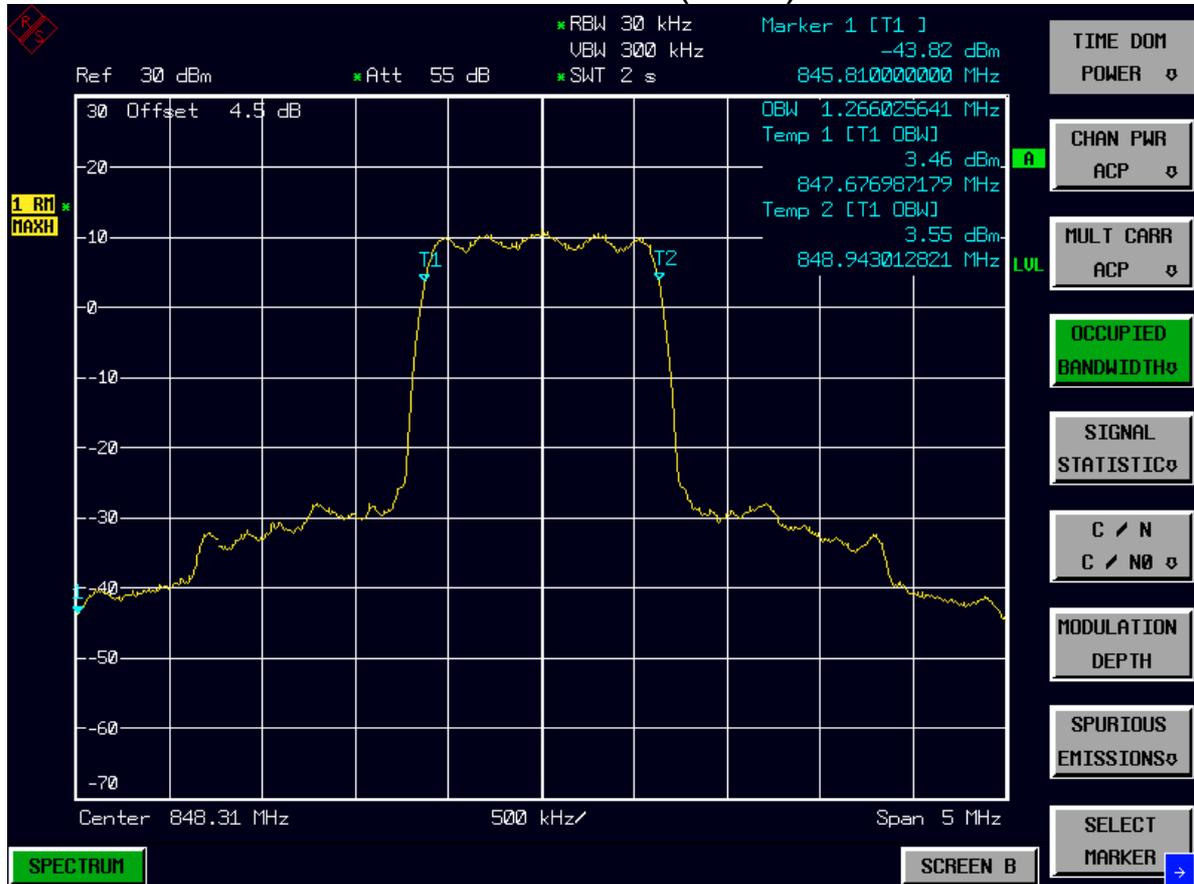
### Channel 283(TM3)



### Channel 777(TM1)



### Channel 777(TM3)



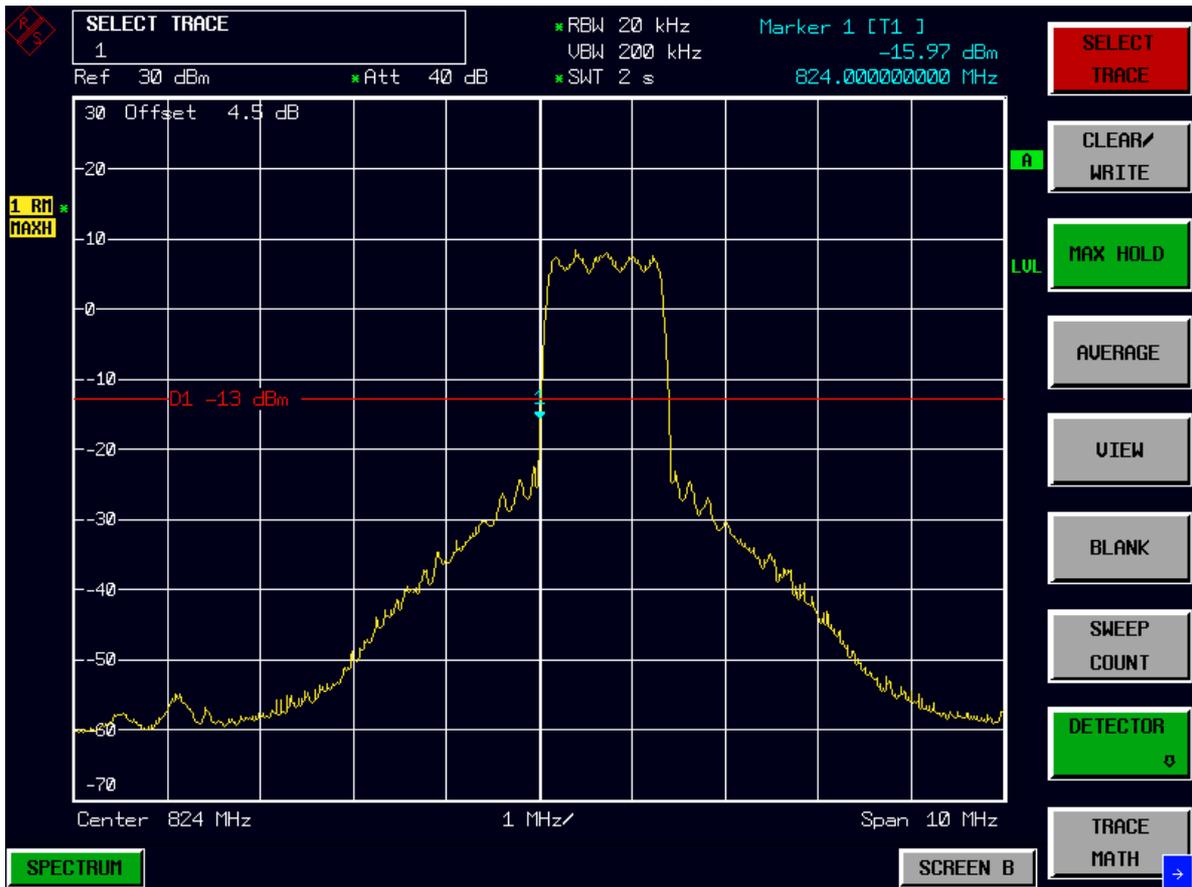
## Appendix D

### Band Edges compliance

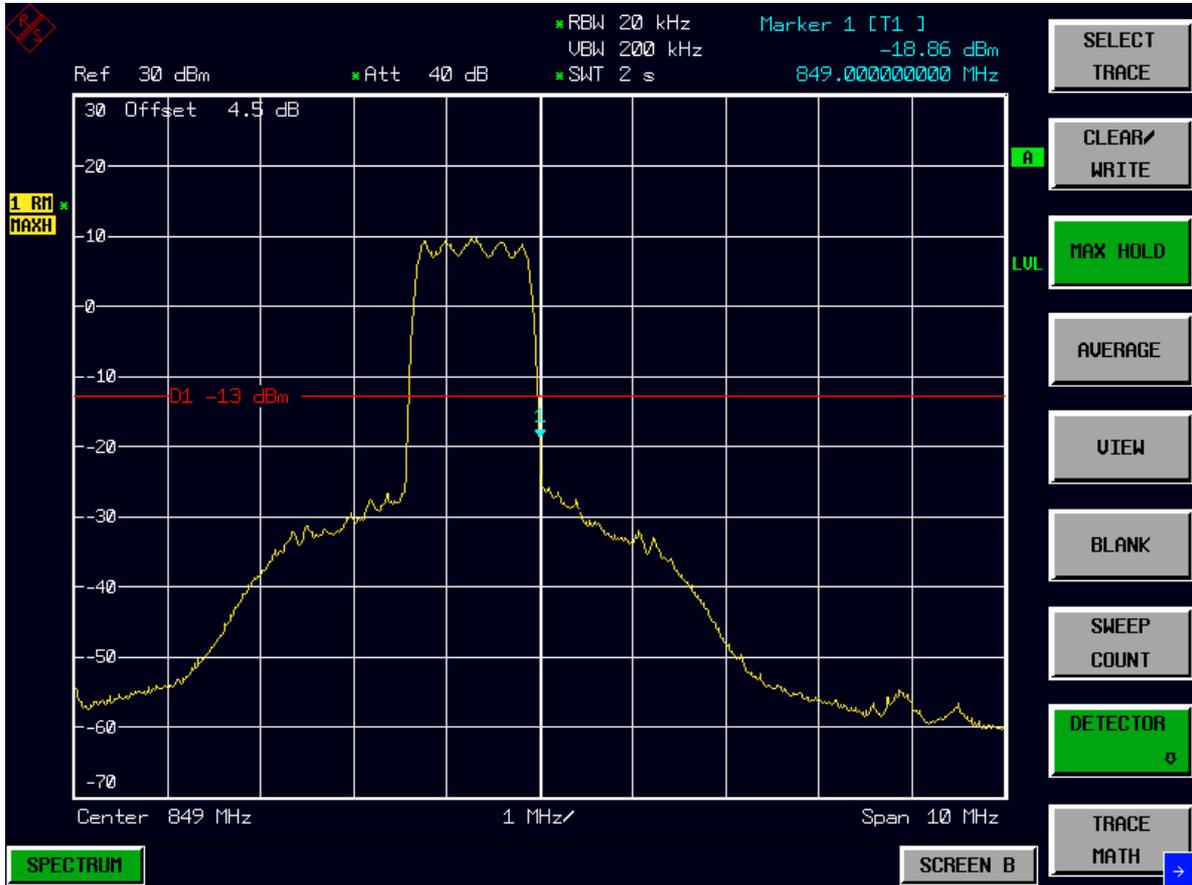
According to CFR 47 (FCC) part 2.1051 & 22.917(e)

TM1

Left Edge (824 MHz)  
Channel 1013

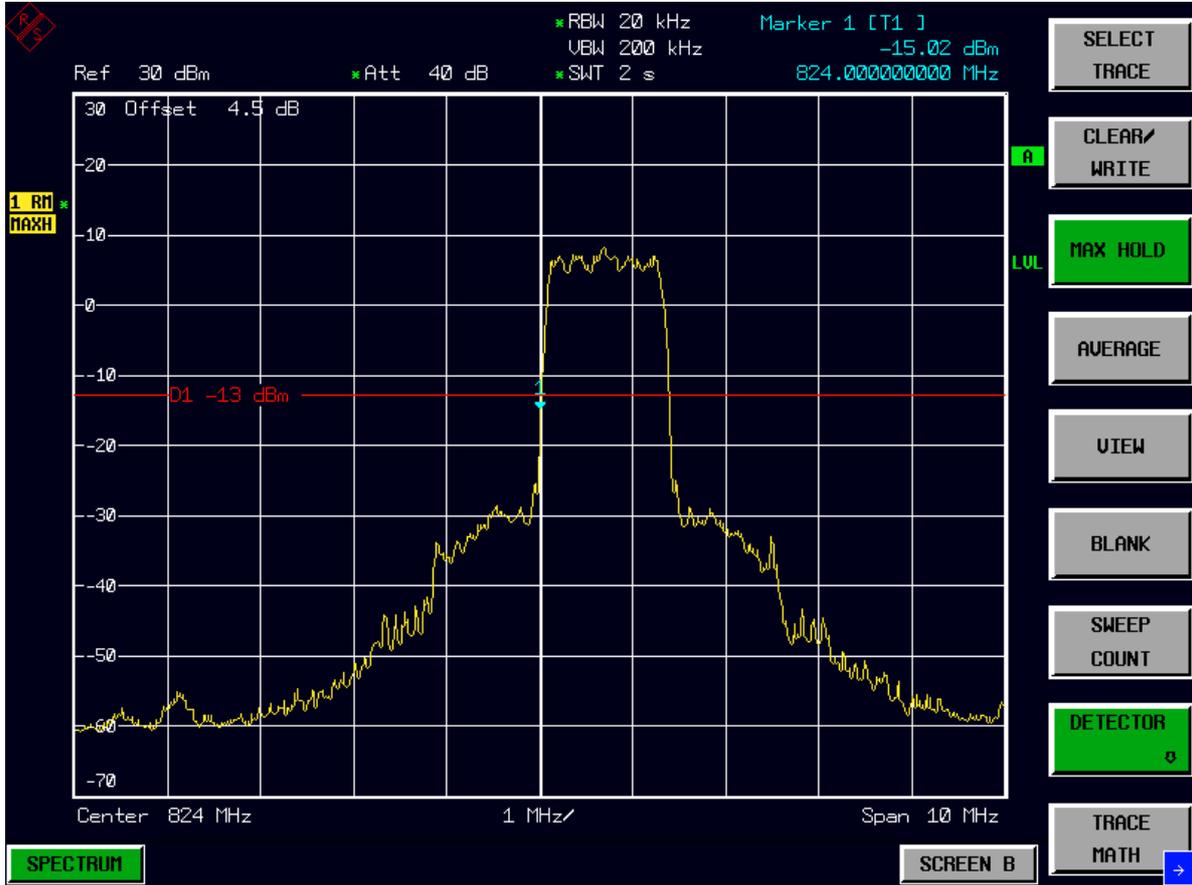


### Right Edge (849MHz) Channel 777

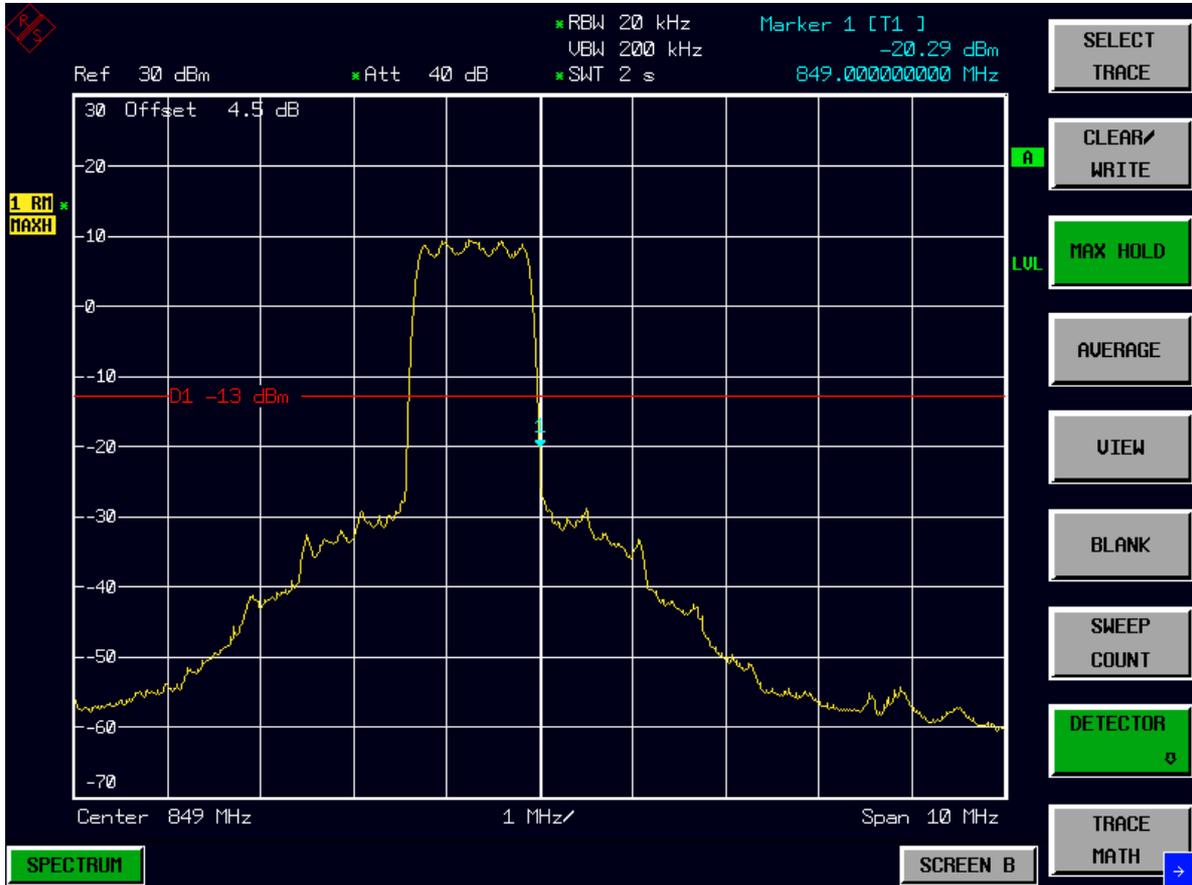


TM3

Left Edge (824 MHz)  
Channel 1013



### Right Edge (849MHz) Channel 777



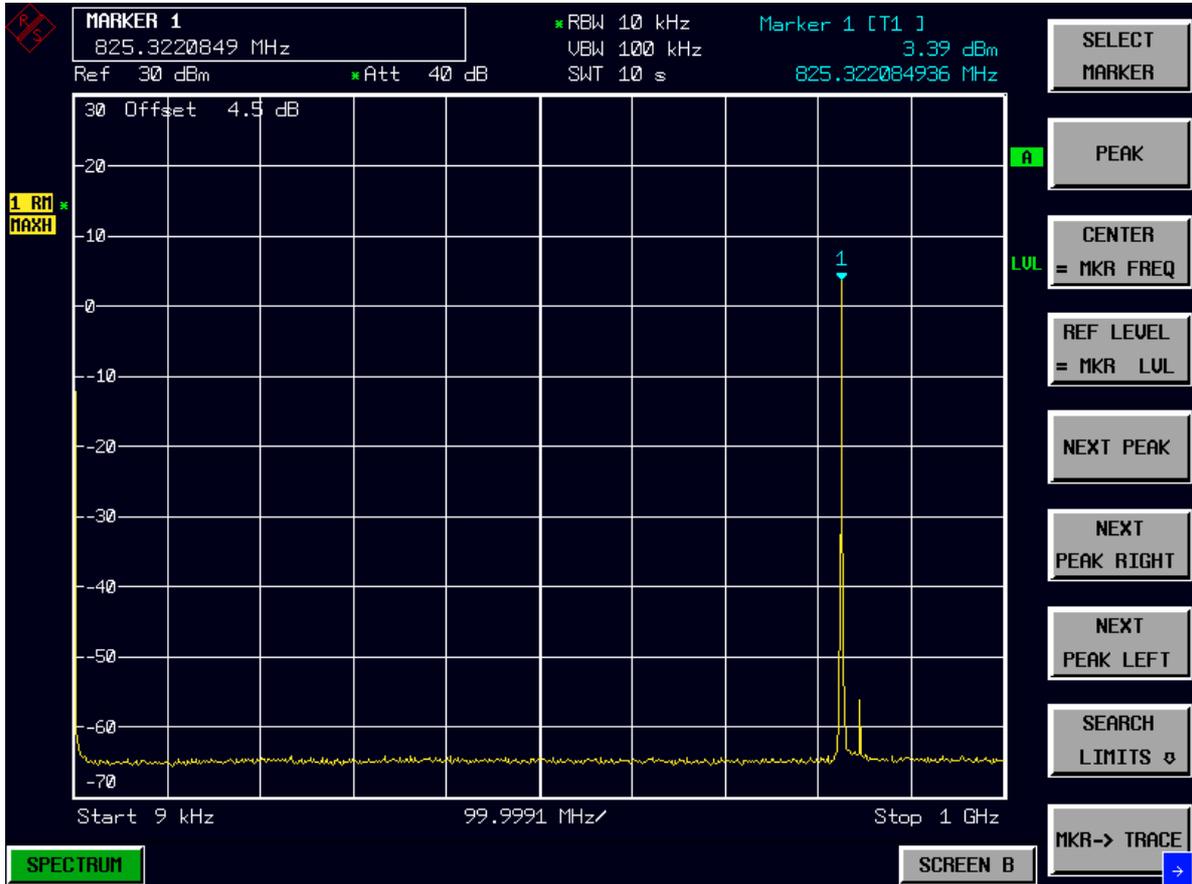
## Appendix E

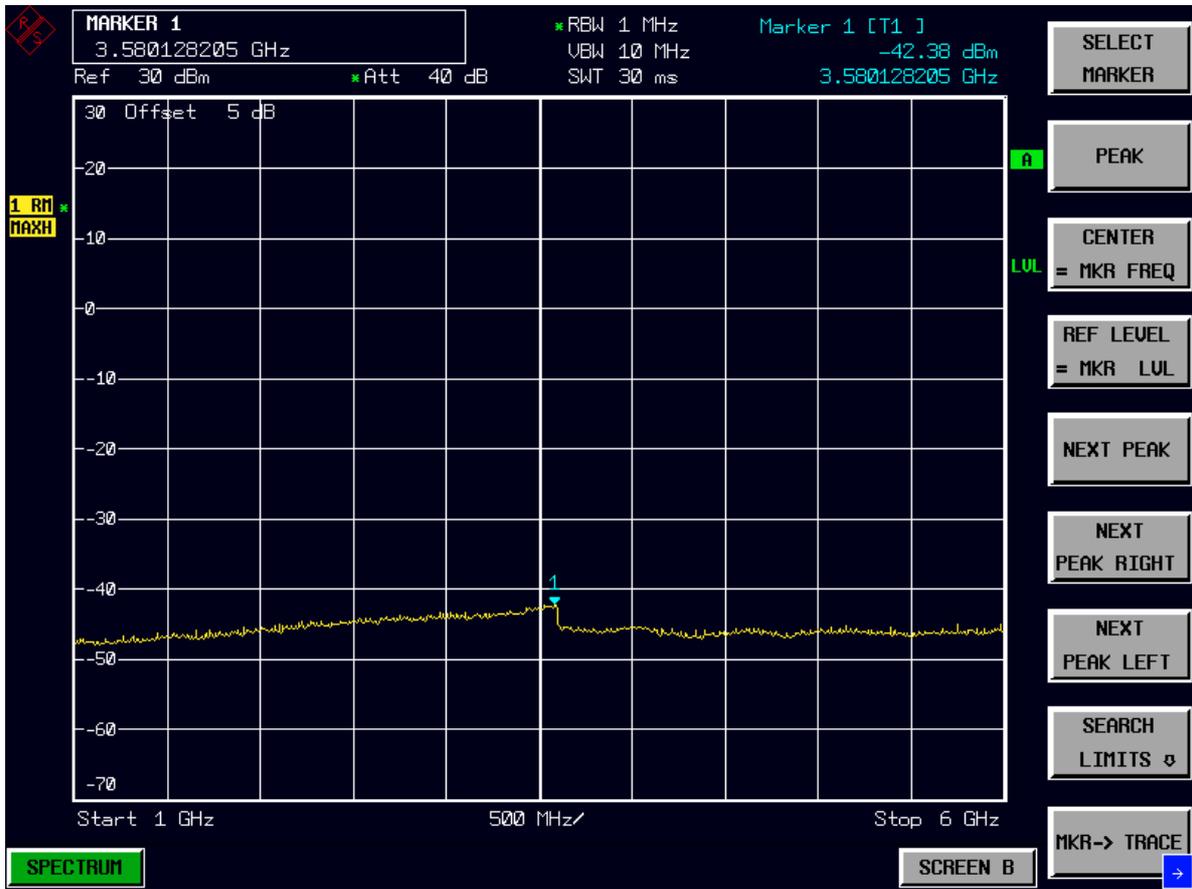
# Spurious Emission at Antenna Terminal

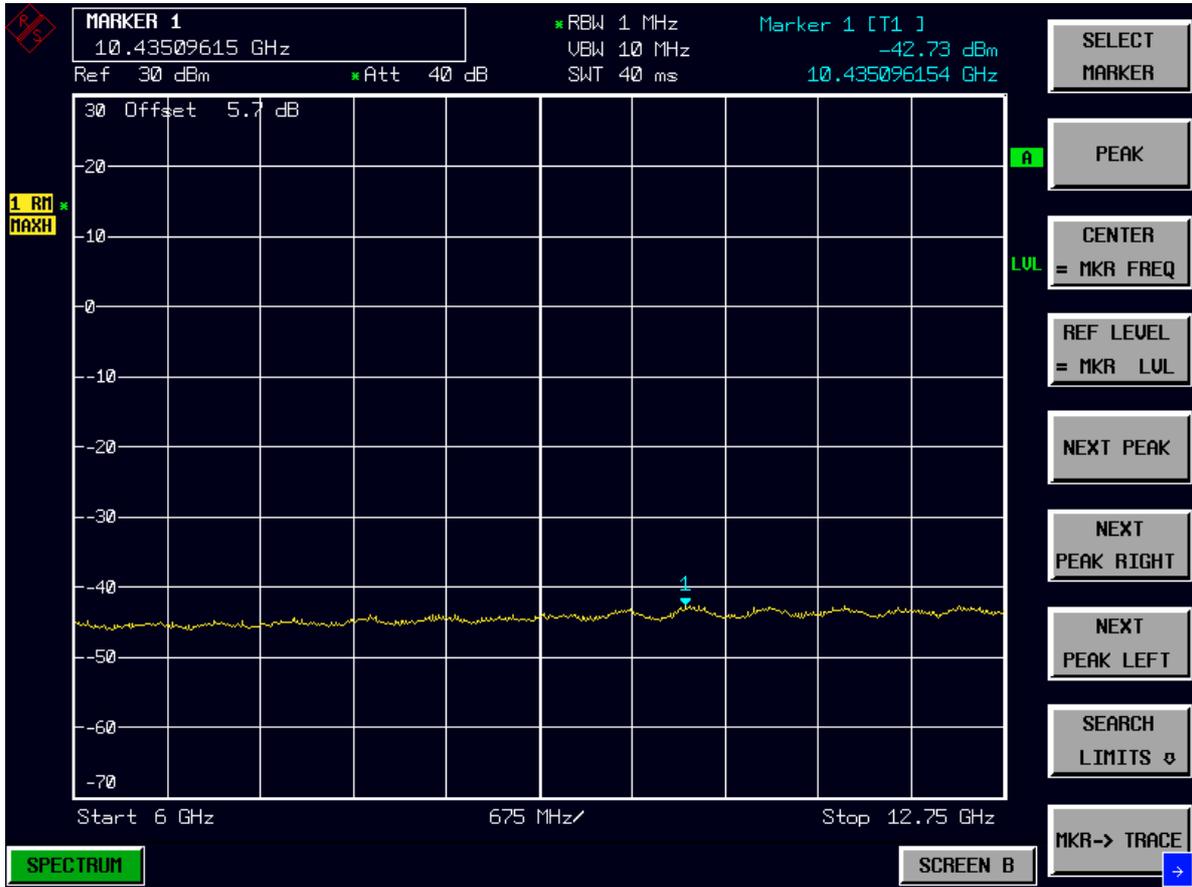
According to CFR 47 (FCC) part 2.1051 & 22.917(e)

### 1.1 TM1

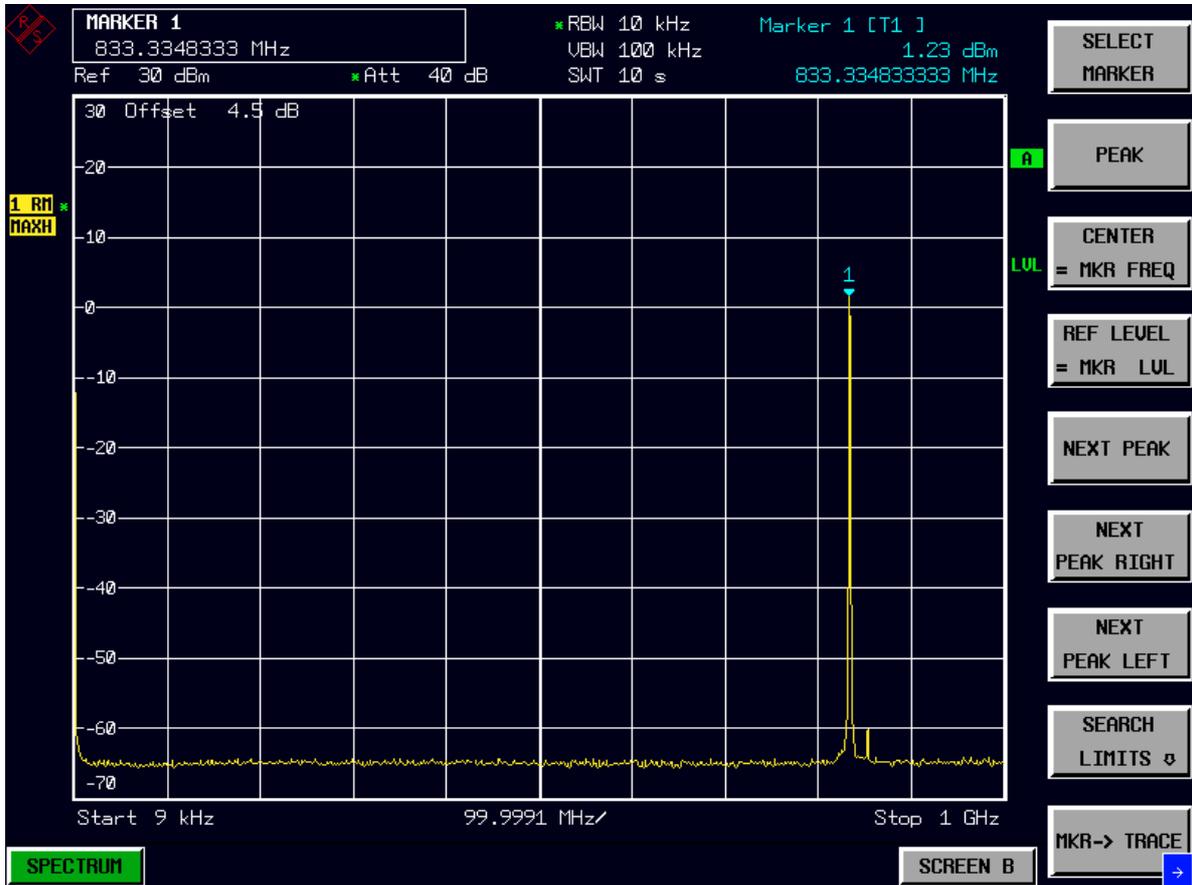
## Channel 1013

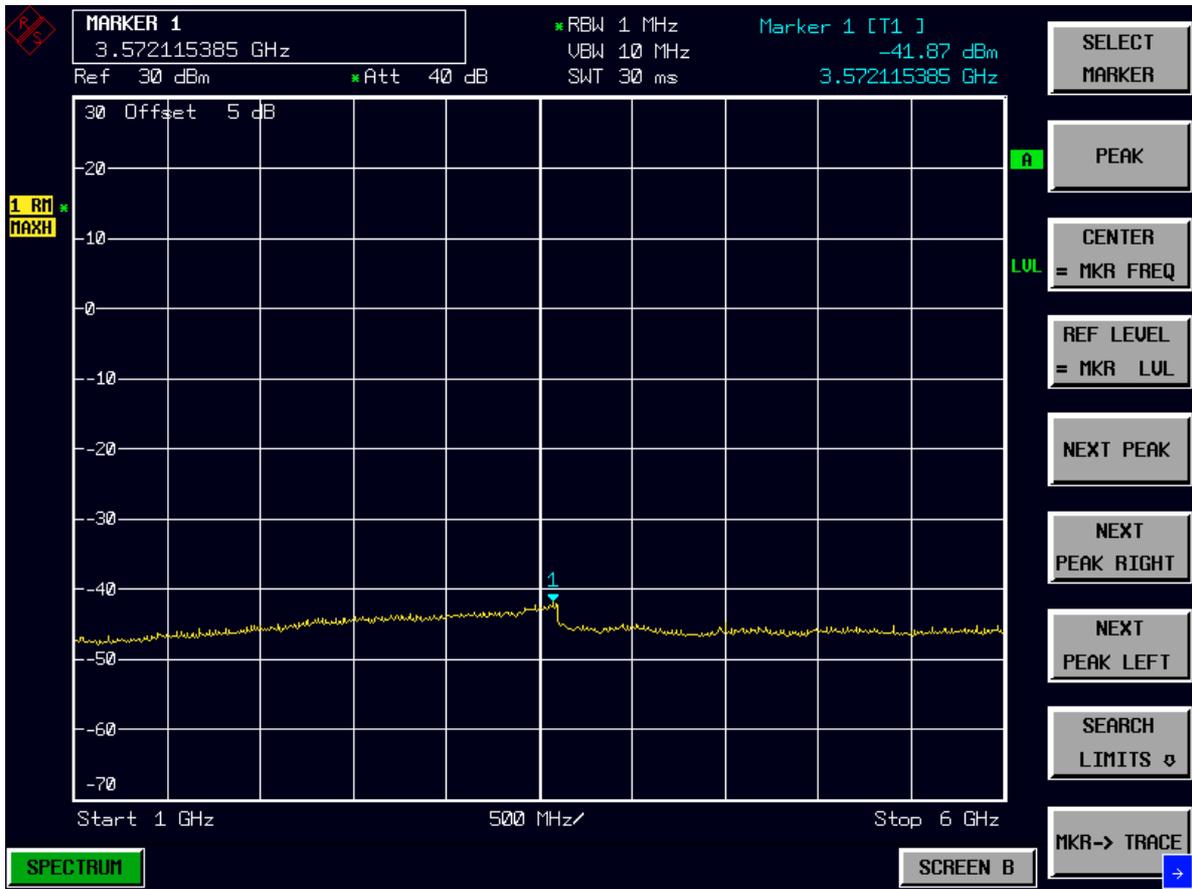


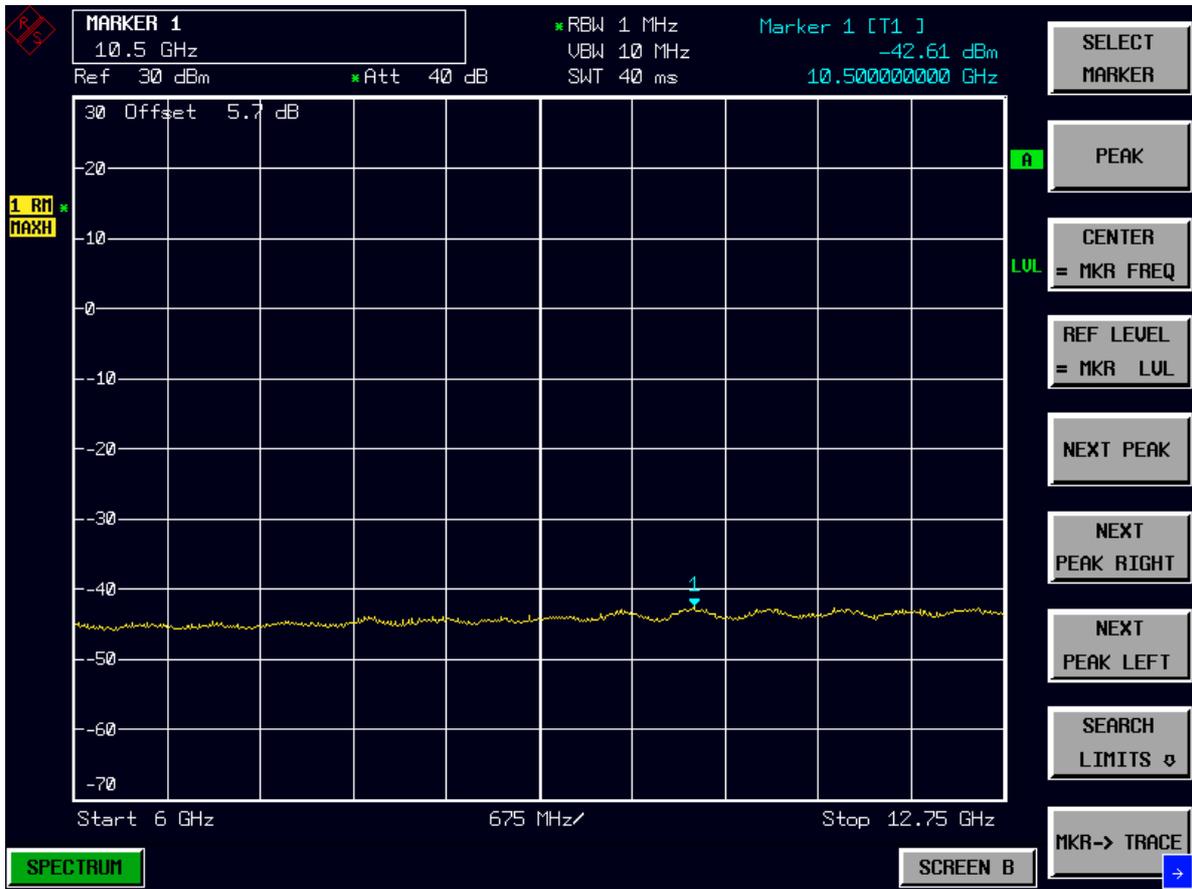




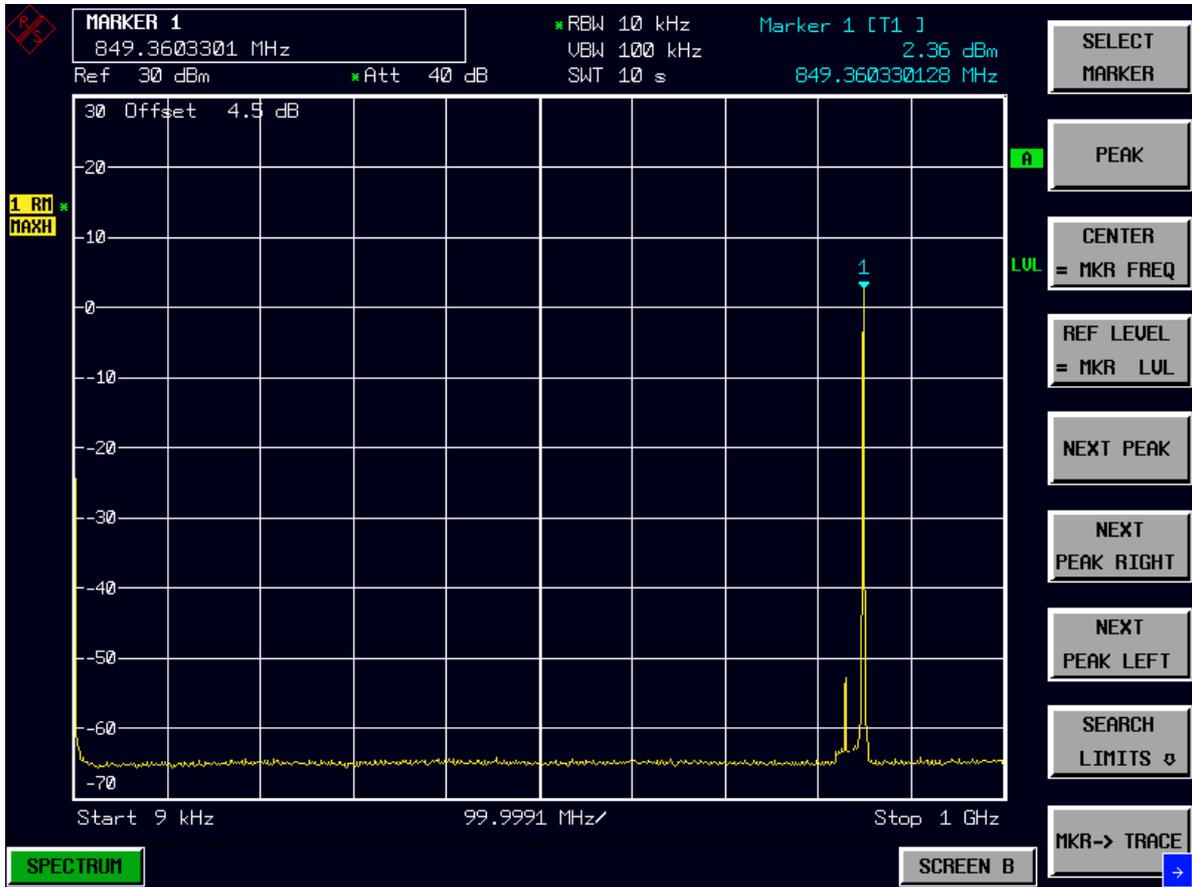
### Channel 283

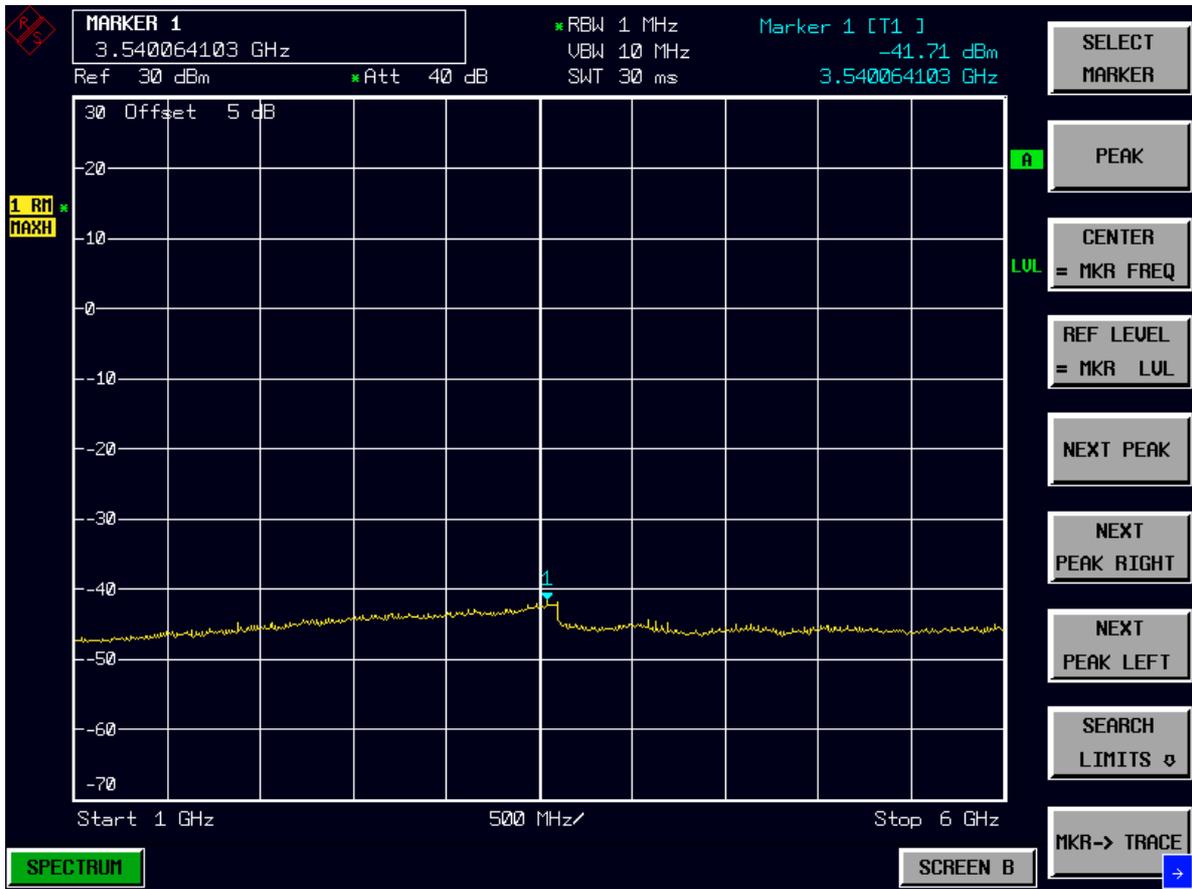


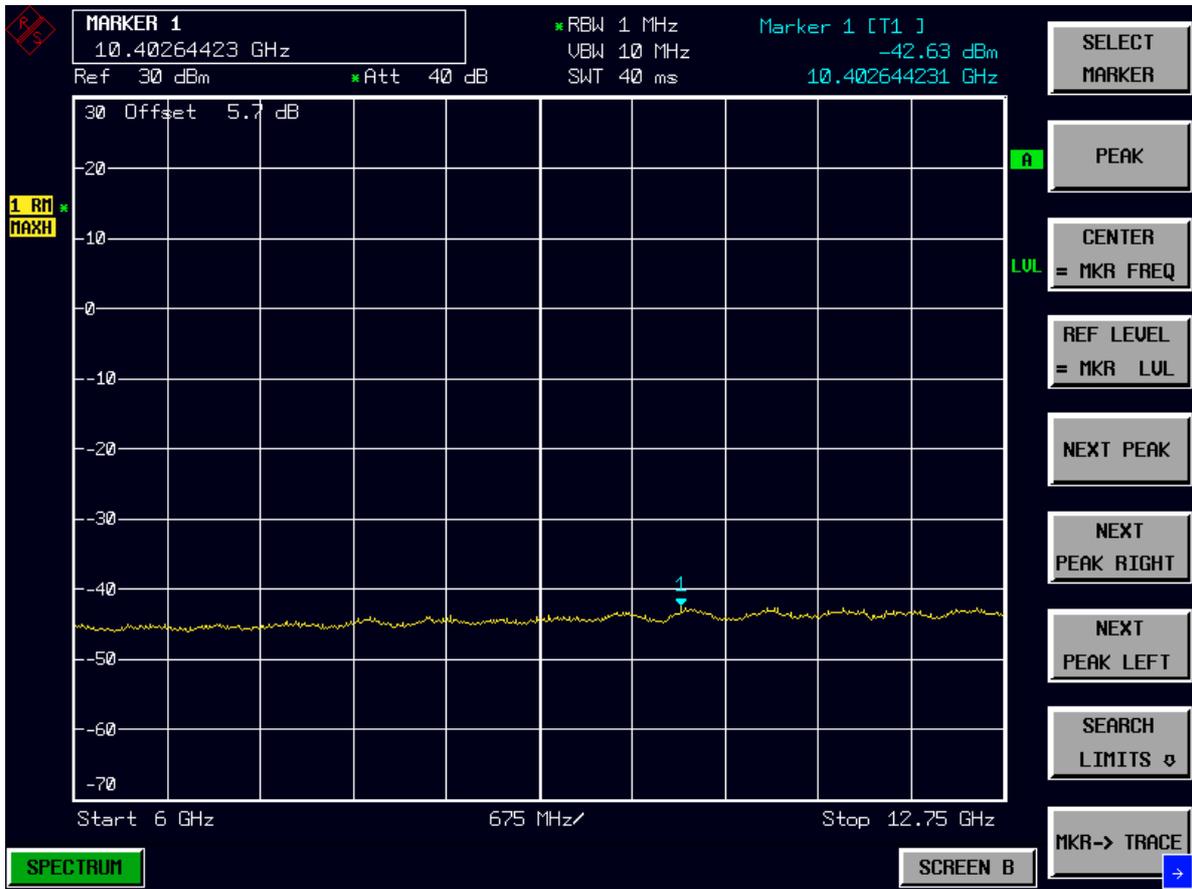




### Channel 777

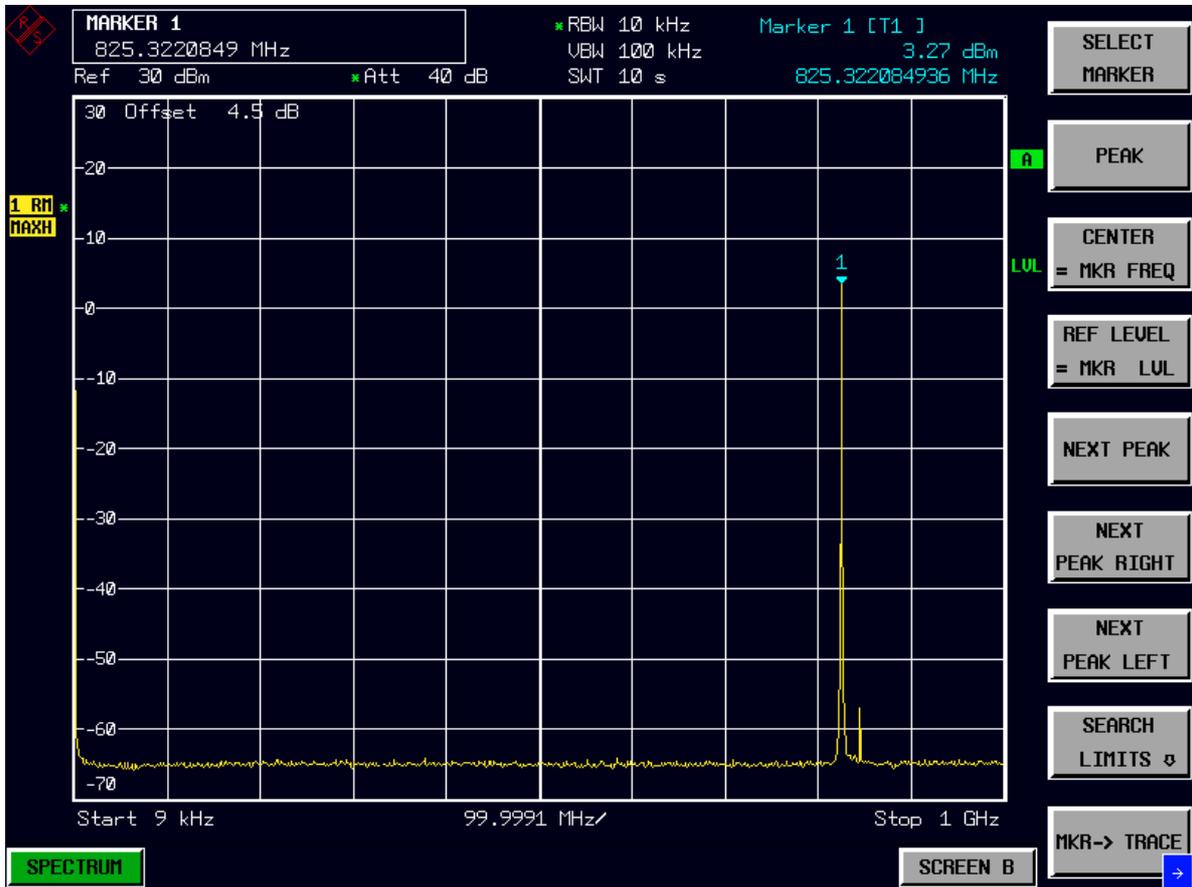


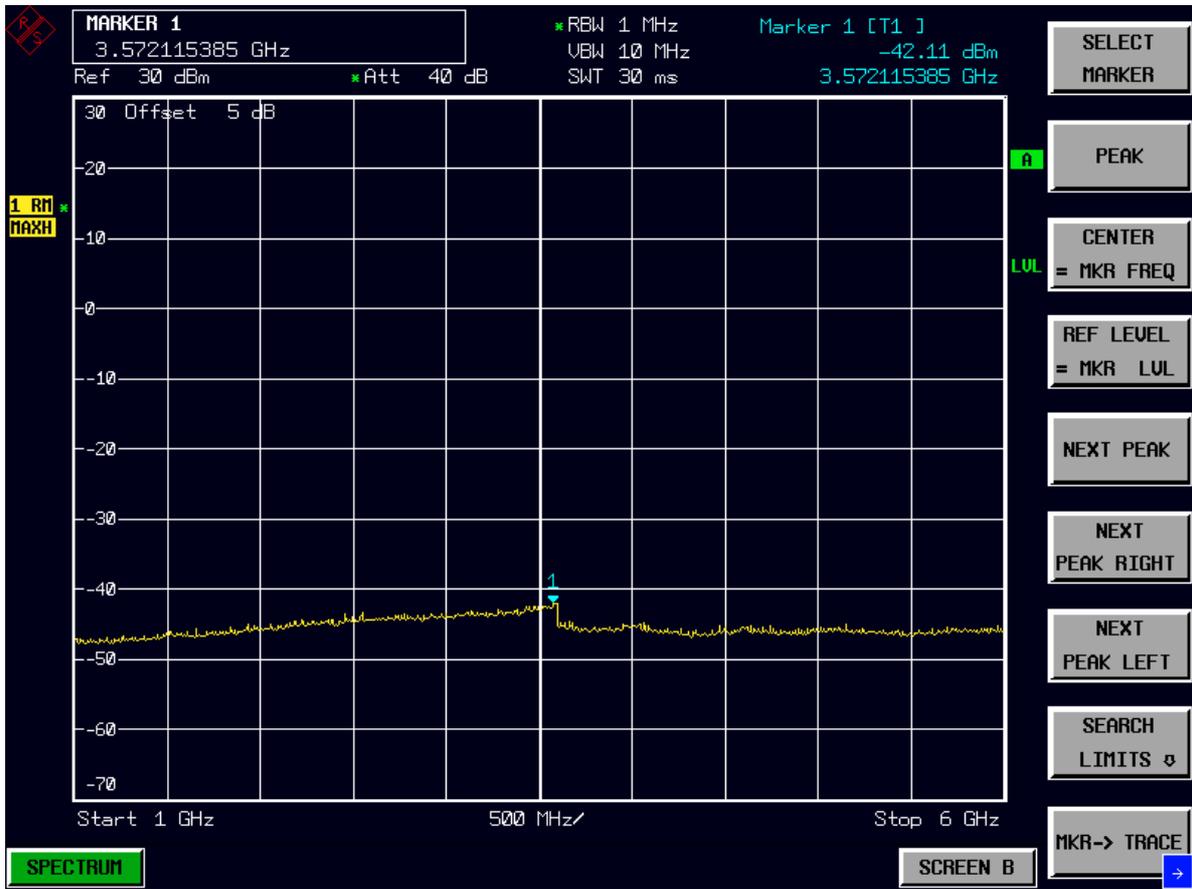


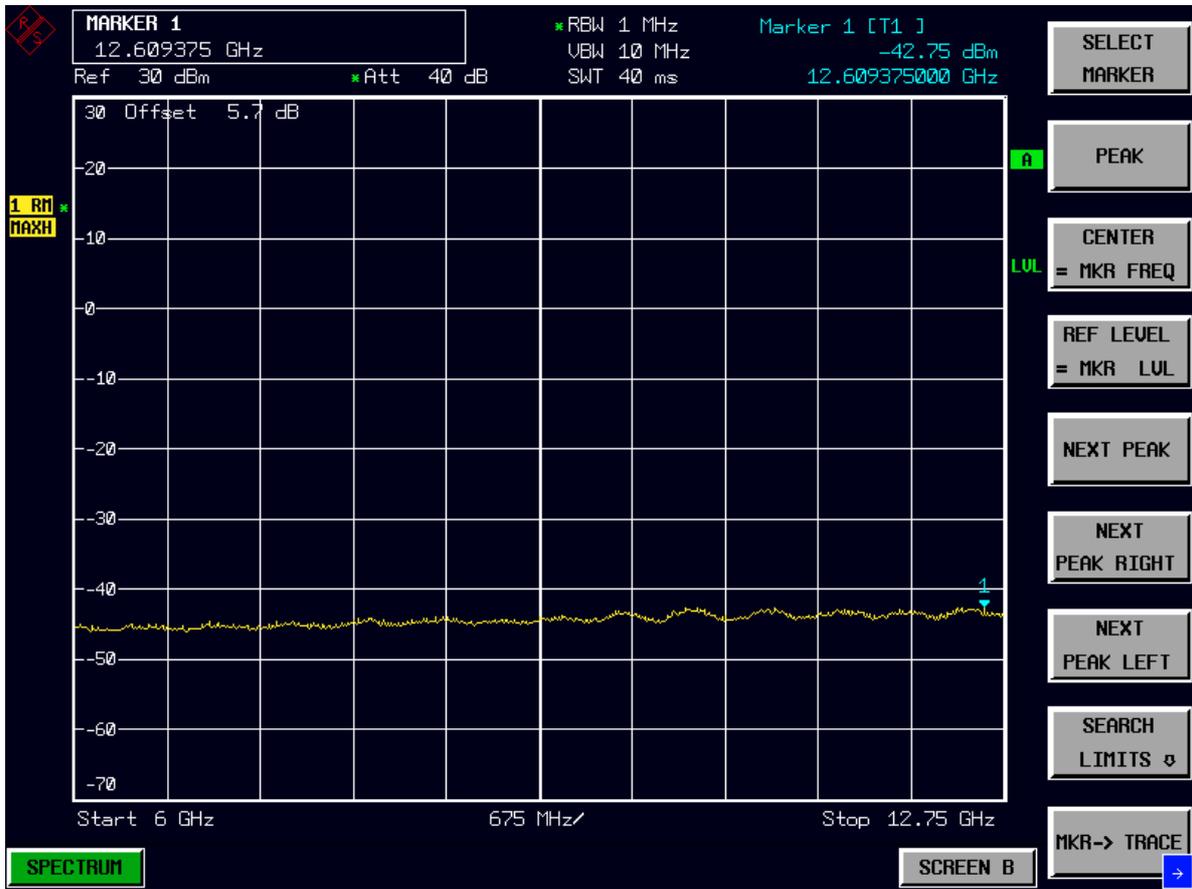


# TM3

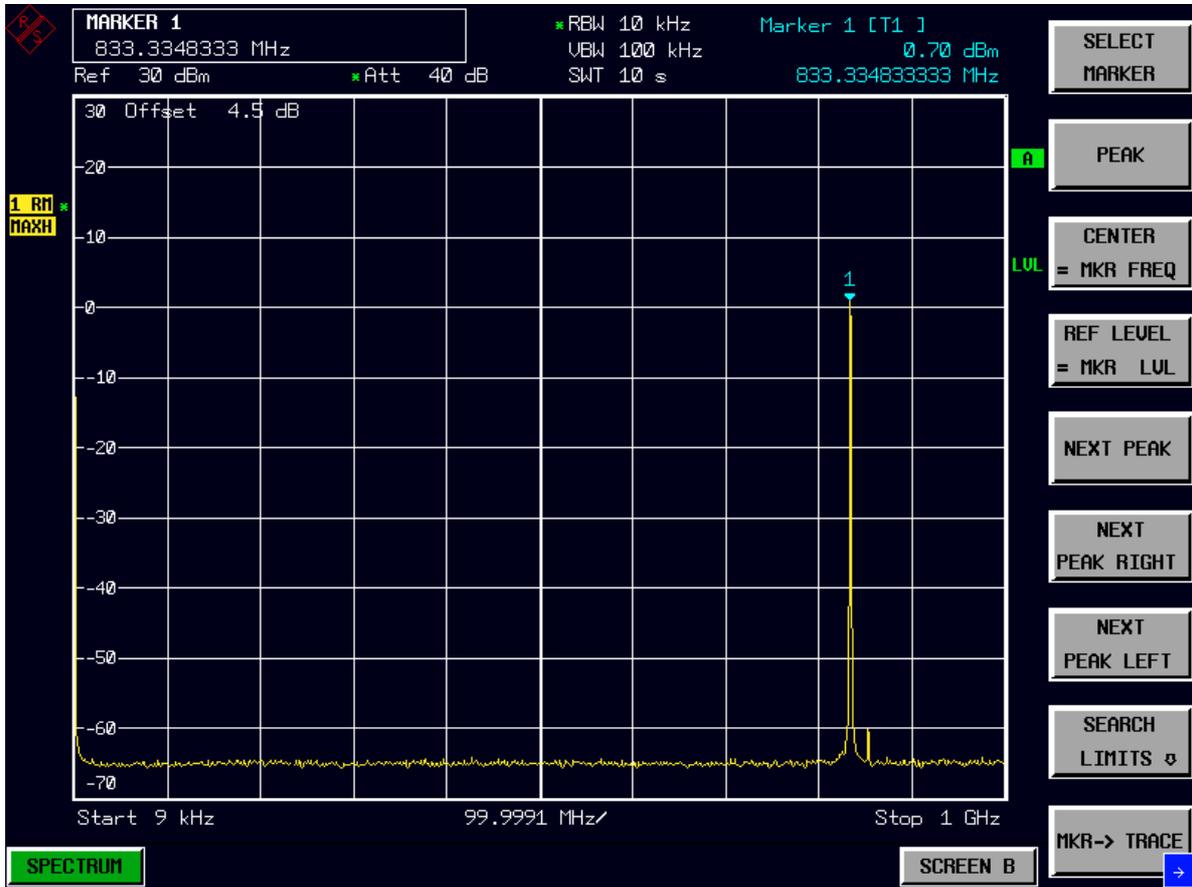
## Channel 1013

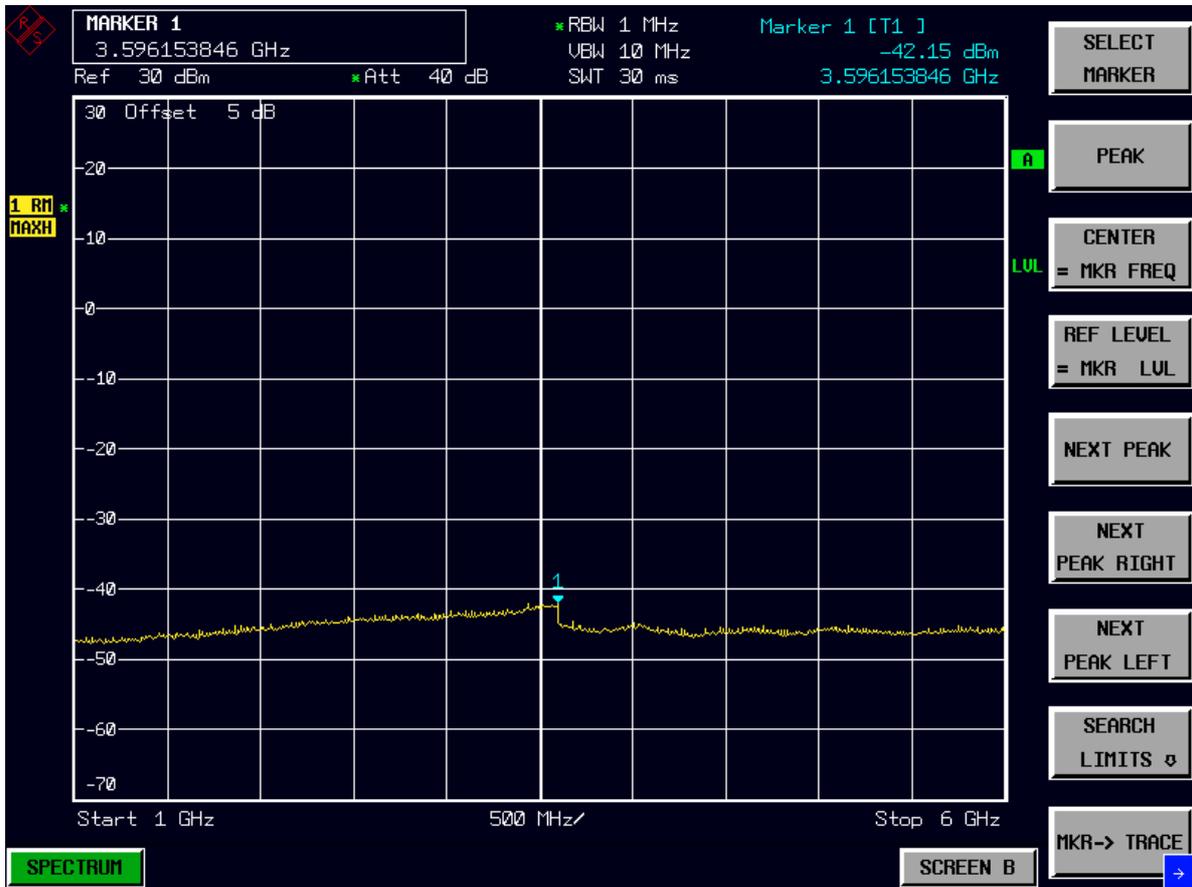


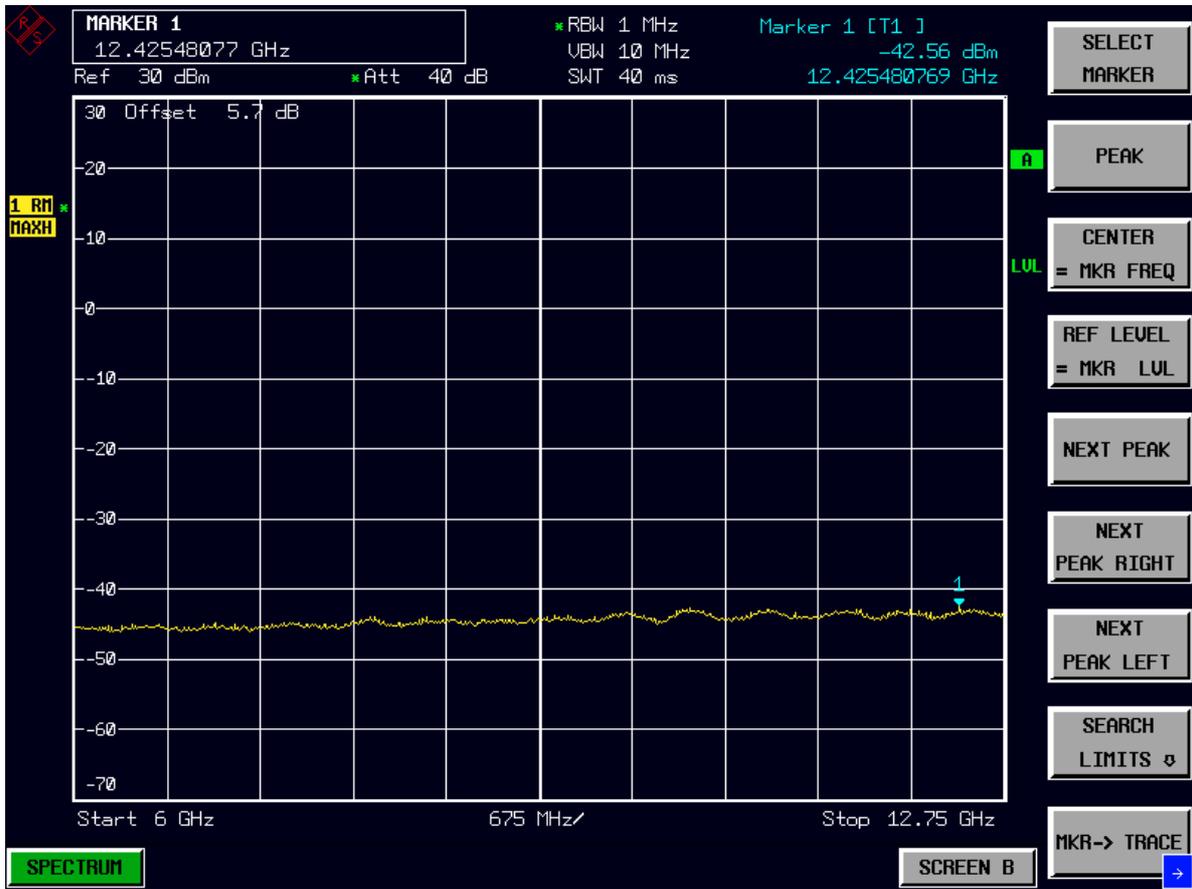




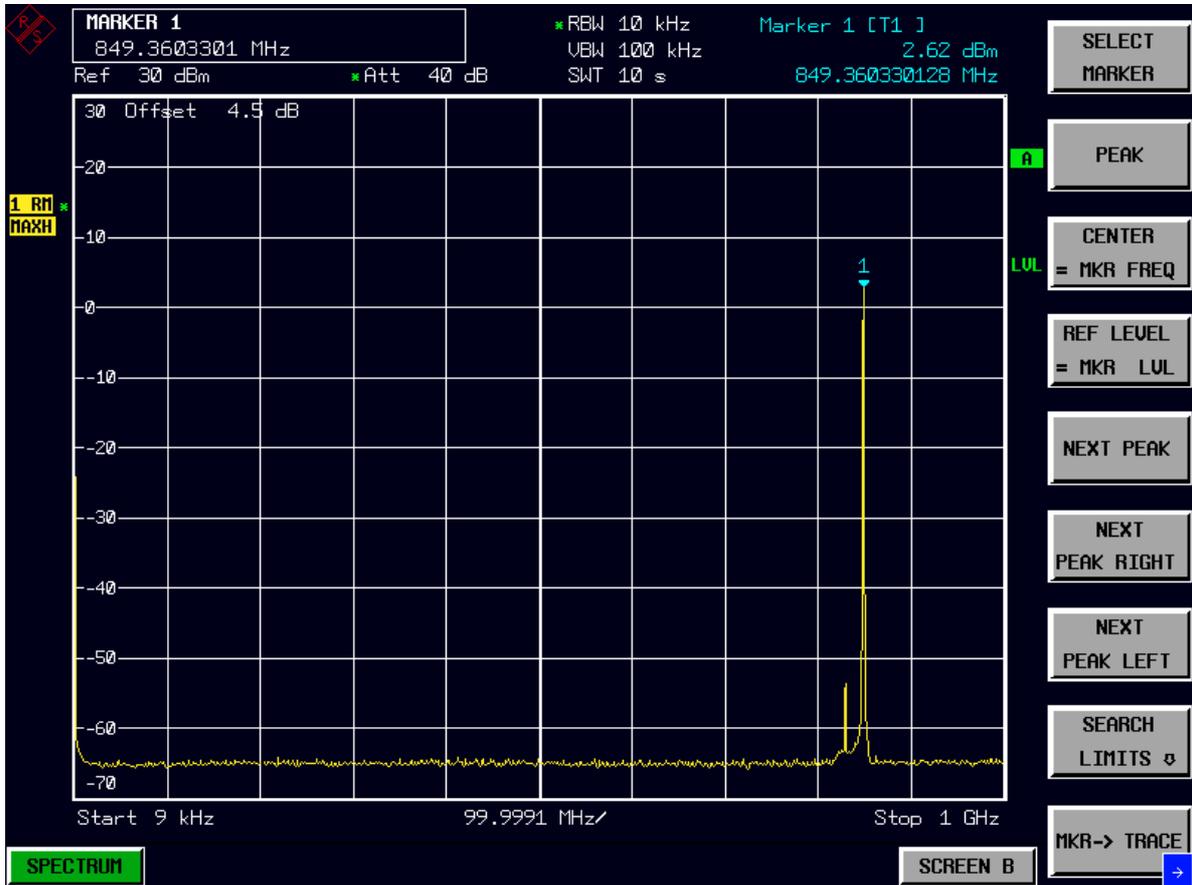
### Channel 283

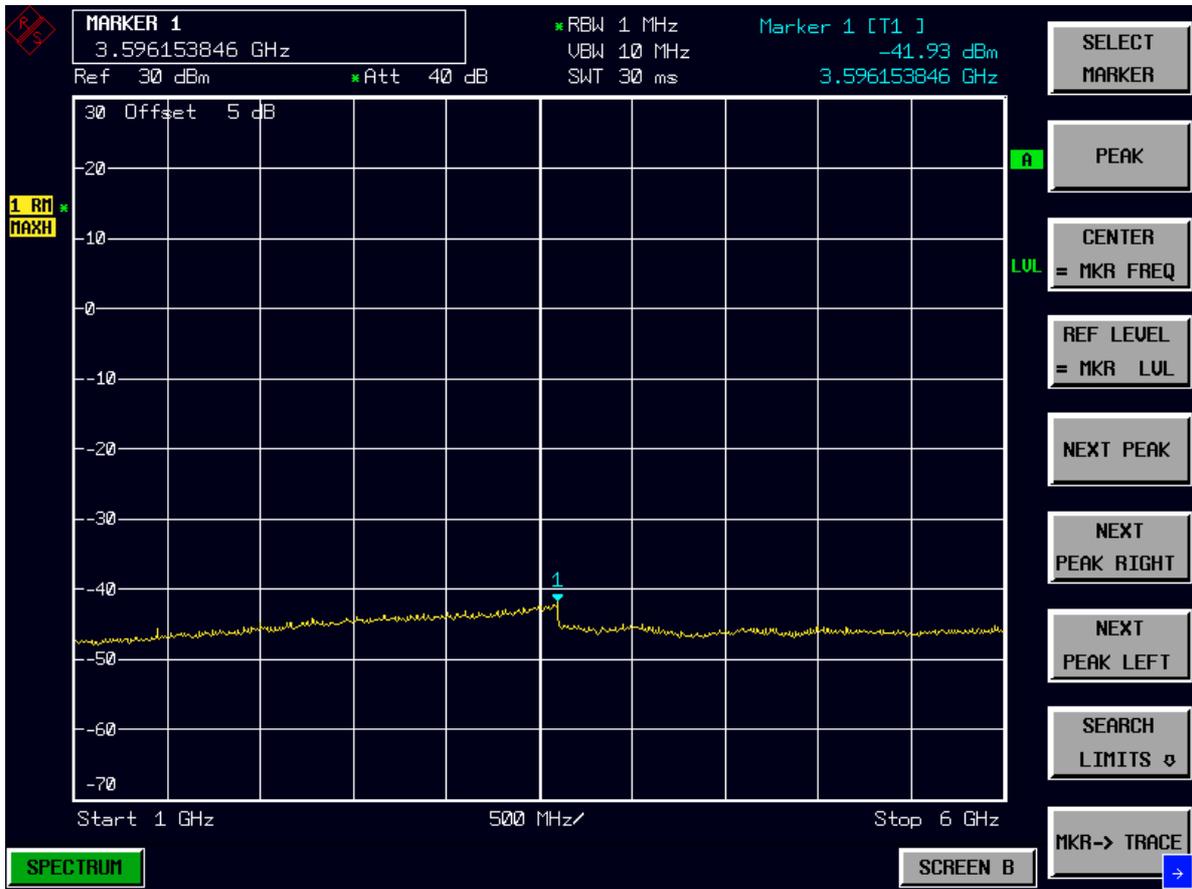


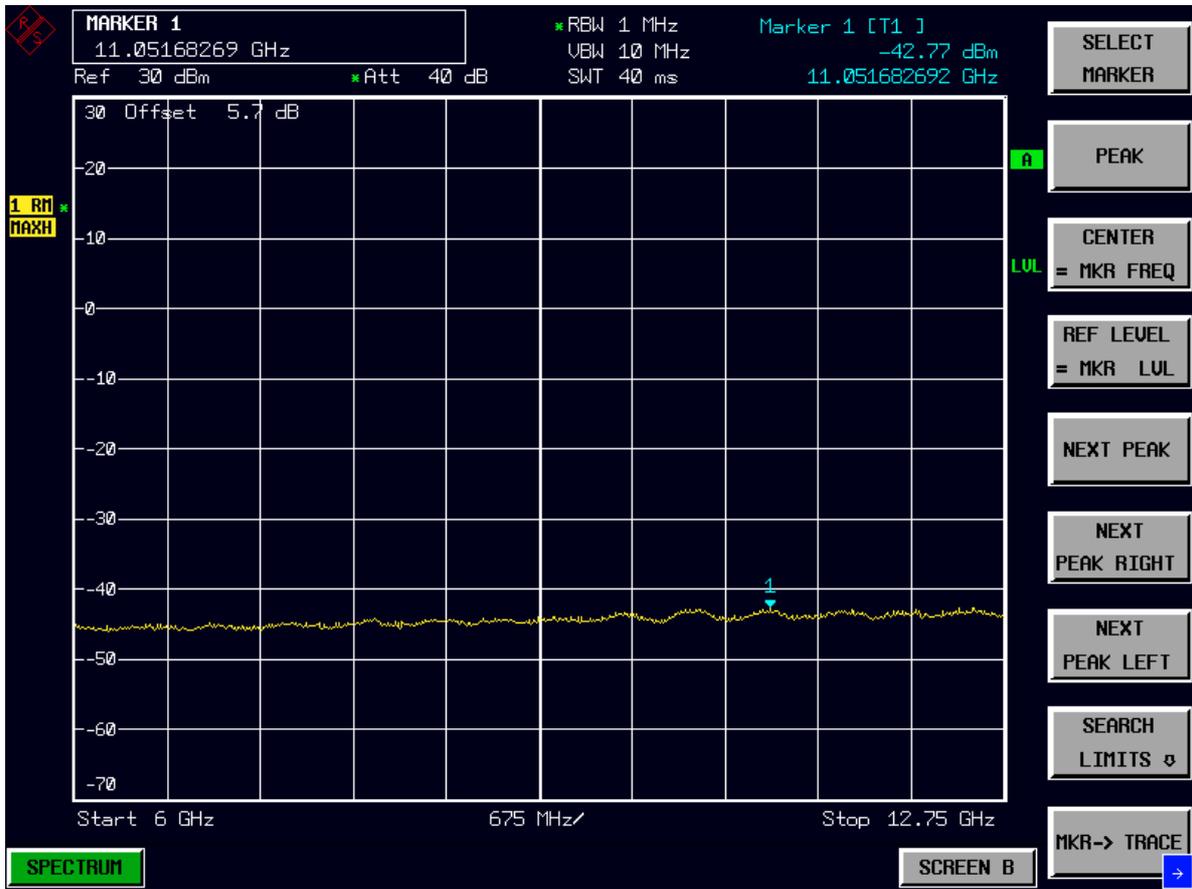




### Channel 777





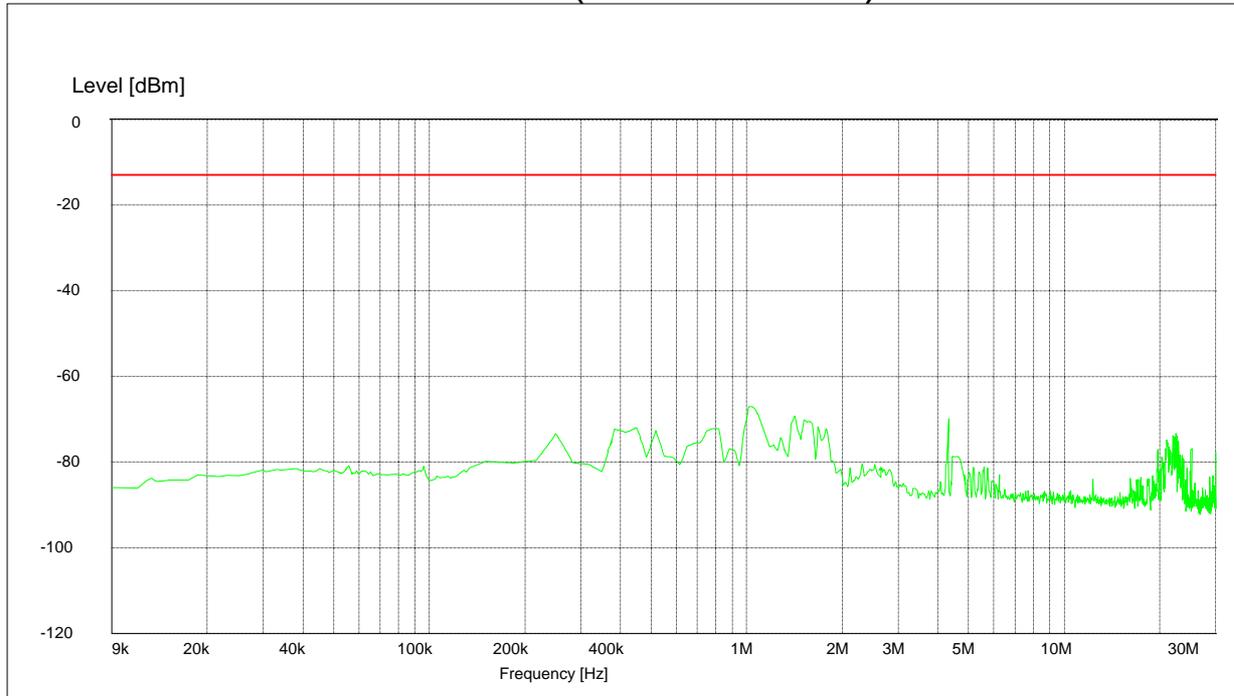


## Appendix F

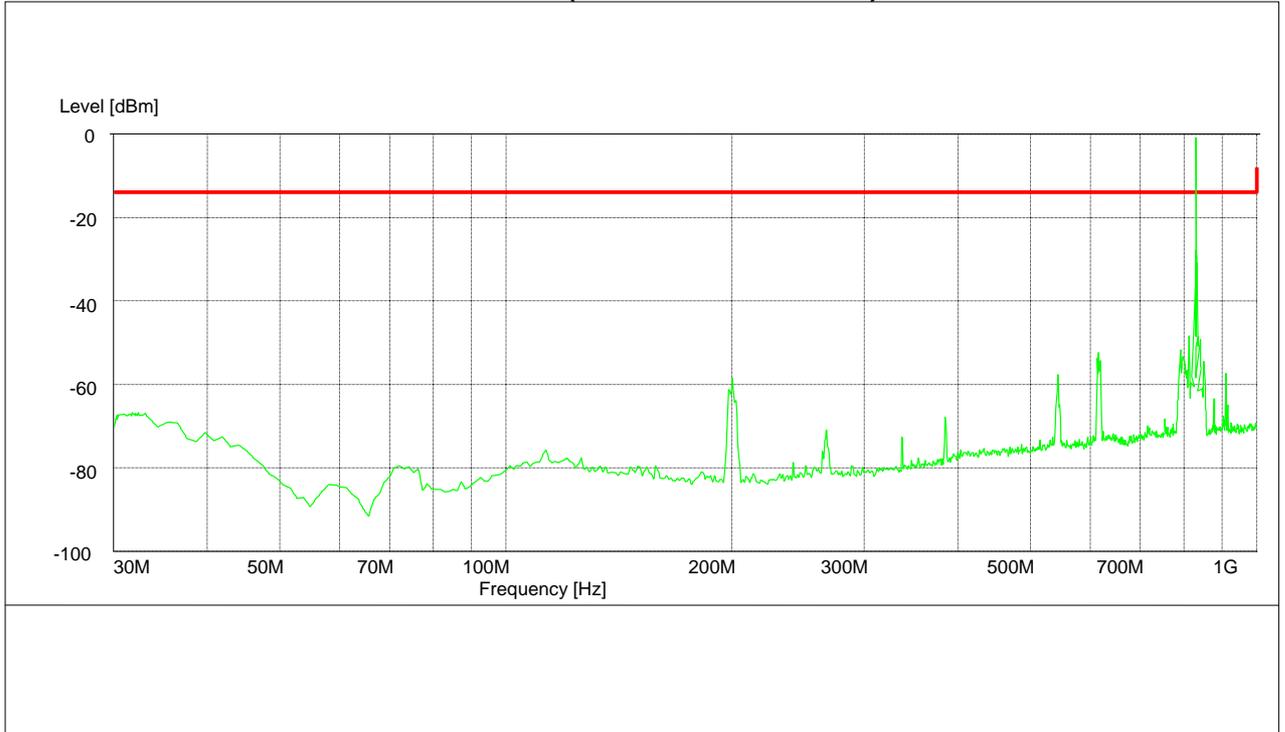
# Field Strength of Spurious Radiation

According to CFR 47 (FCC) part 2.1053 & 22.917(e)

### TRA Mode (9kHz-30MHz)

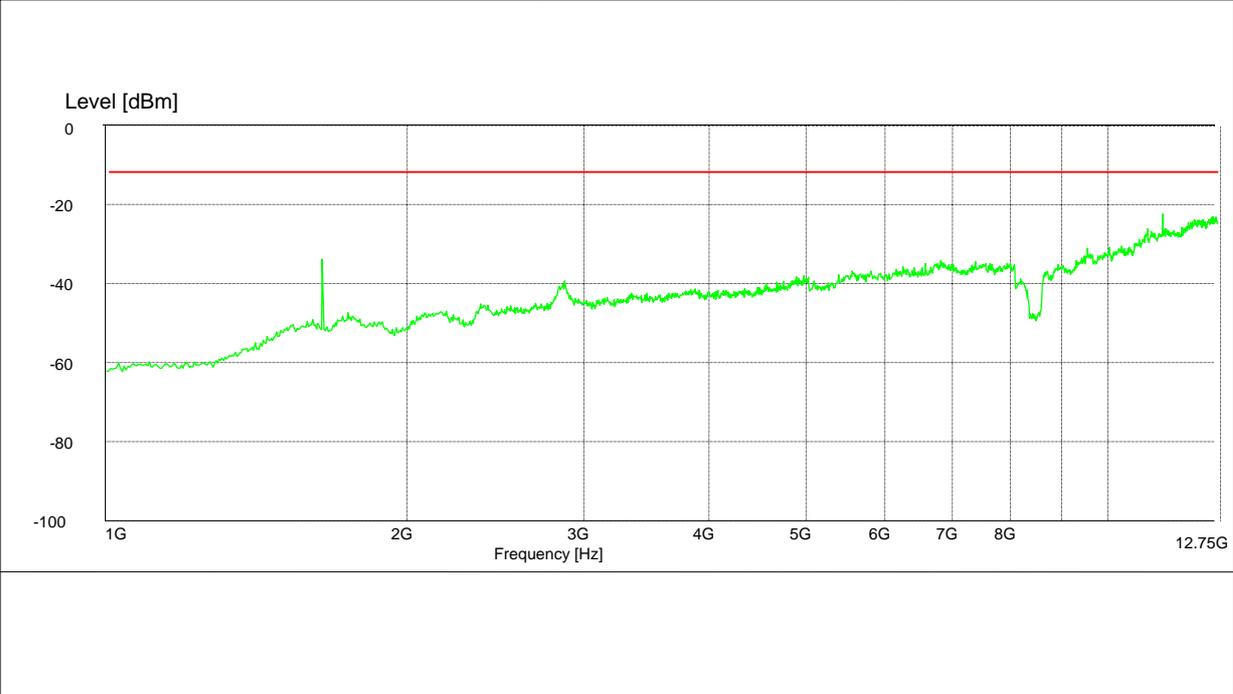


### TRA Mode (30MHz-1GHz)



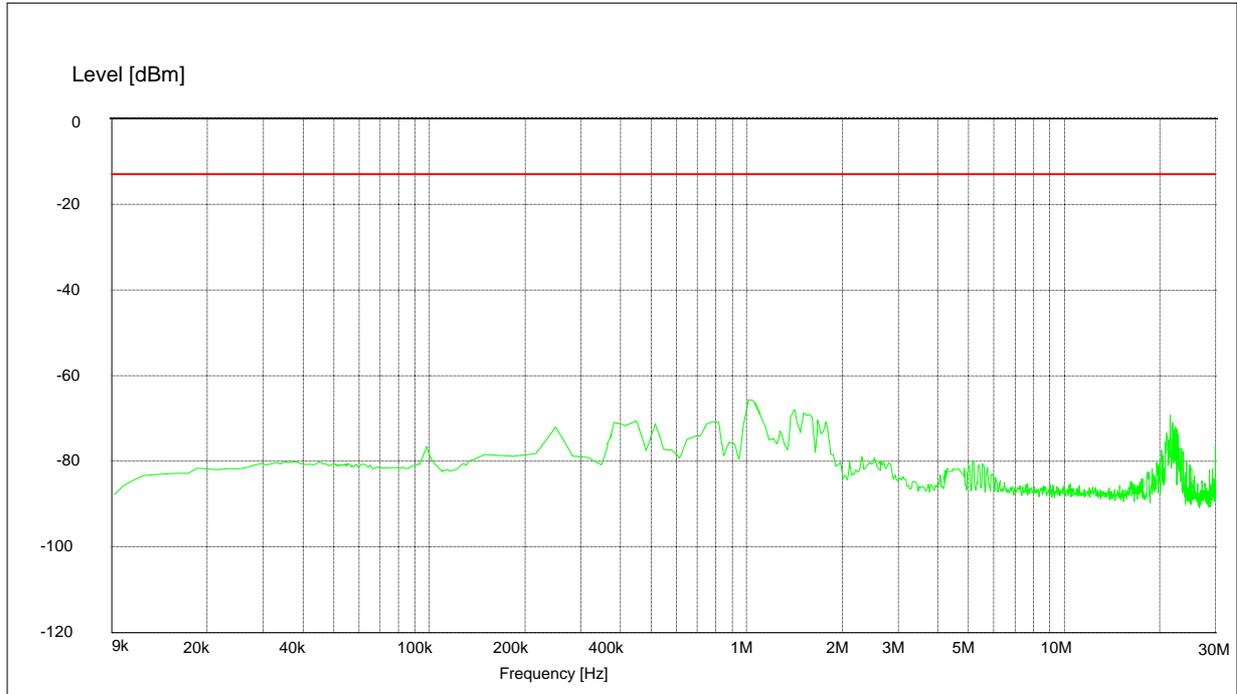
Note: The frequency which exceeded the limit was the carrier frequency.

### TRA Mode (1GHz-12.75GHz)

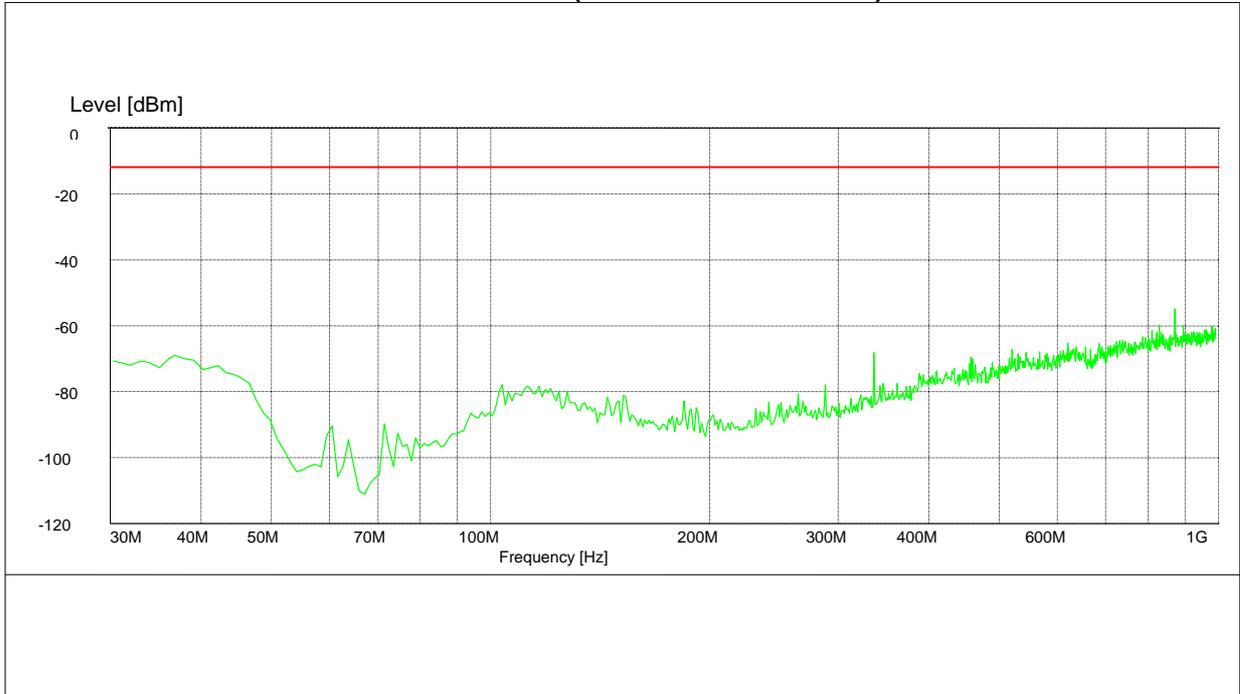


# IDLE Mode (9 kHz-30MHz)

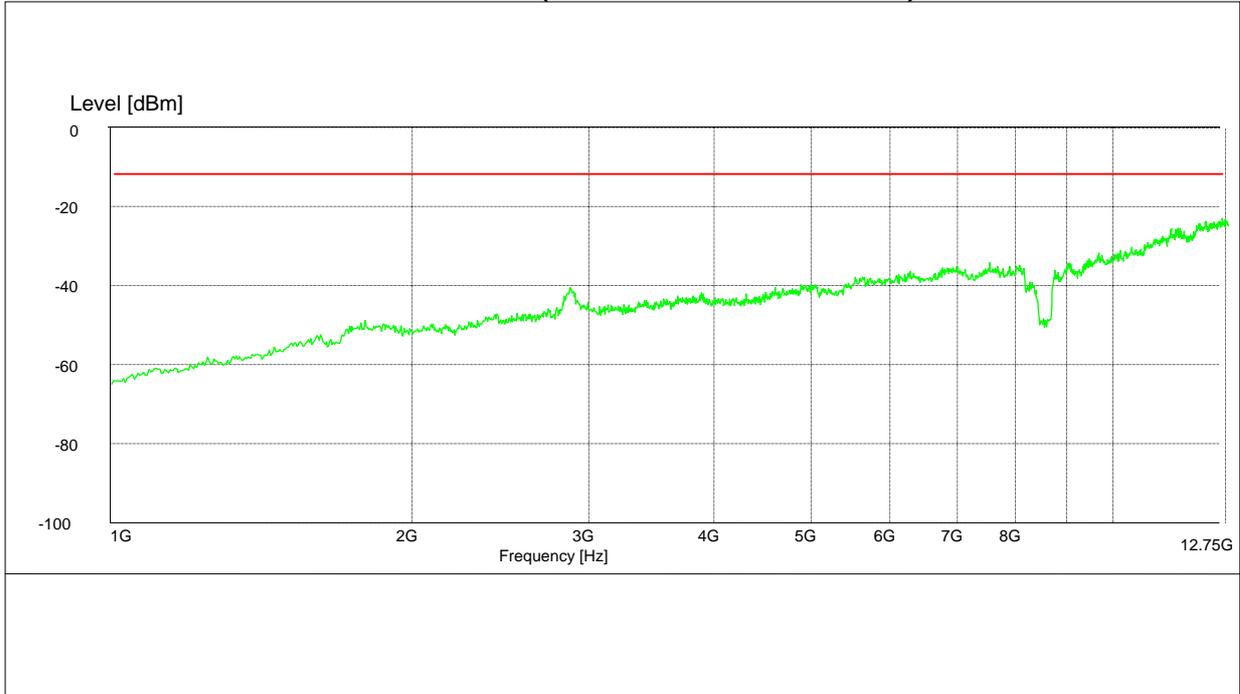
handsethandsethandset



### IDLE Mode (30MHz-1GHz)



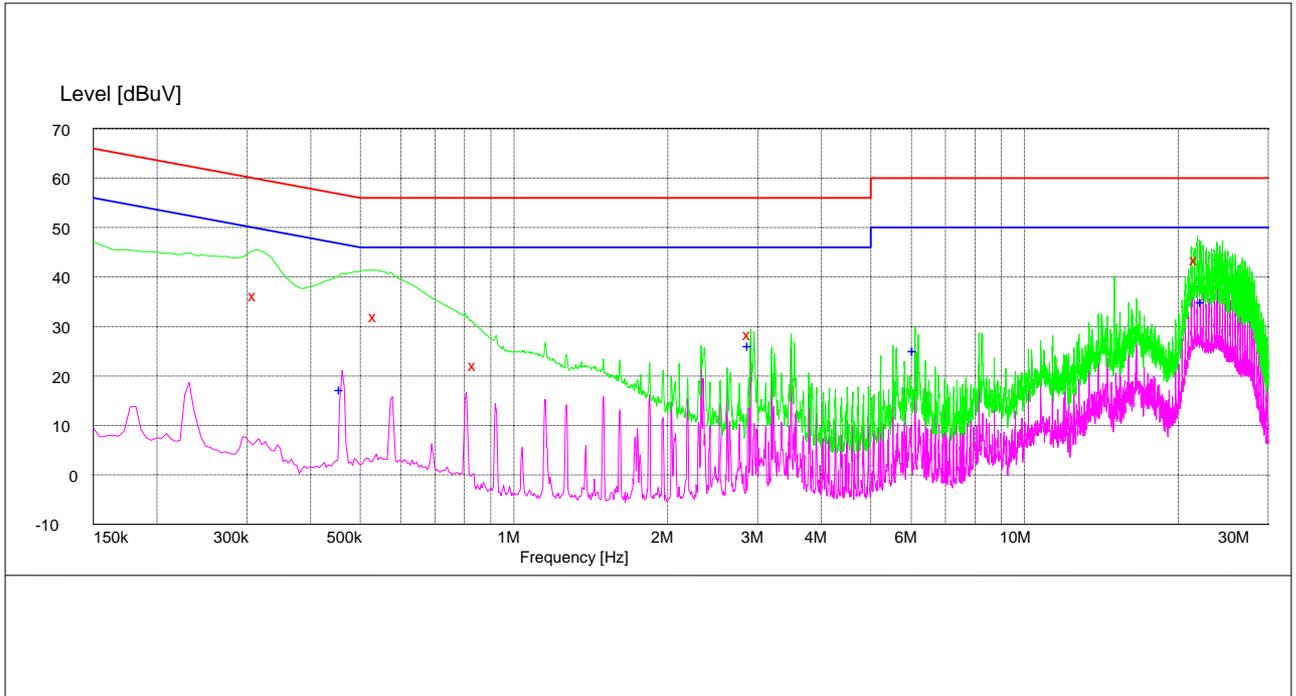
### IDLE Mode (1GHz-12.75GHz)



## Appendix G

# Conducted Emission at Power Port

According to CFR 47 (FCC) part 15.107



MEASUREMENT RESULT: QP DECTER

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.312000	36.50	1.0	60	23.4	L2	FLO
0.537000	32.20	0.7	56	23.8	L2	FLO
0.843000	22.40	0.6	56	33.6	L2	FLO
2.908500	28.60	0.5	56	27.4	L2	FLO
21.799500	43.80	3.0	60	16.2	L2	FLO

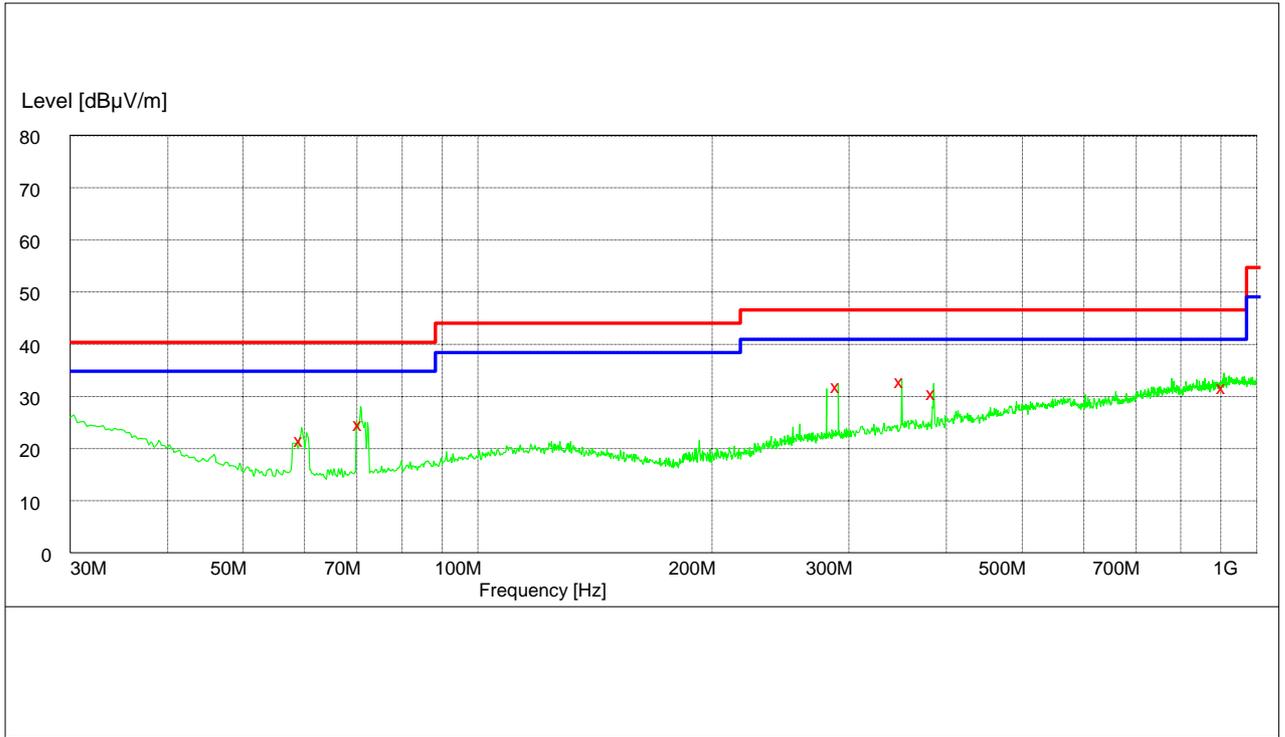
MEASUREMENT RESULT: "AV DECTER"

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
0.460500	17.40	0.6	47	29.3	L2	FLO
2.908500	26.50	0.5	46	19.5	L2	FLO
6.103500	25.50	0.7	50	24.5	L2	FLO
22.389000	35.20	2.8	50	14.8	N	FLO

## Appendix H

# **Radiated Emission of Enclosure in Idle Mode**

According to CFR 47 (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
59.400000	22.00	-5.4	40.0	18.0	100.0	220.00	VERTICAL
70.800000	25.00	-15.9	40.0	15.0	110.0	180.00	VERTICAL
290.400000	32.40	-12.0	46.0	13.6	100.0	300.00	VERTICAL
350.555000	33.26	-10.1	46.0	12.74	100.0	0.00	VERTICAL
384.770000	31.00	0.6	46.0	15.0	150.0	20.00	VERTICAL
909.300000	32.00	0.7	46.0	14.0	100.0	20.00	VERTICAL

# Appendix I

## Photos of Test Setup

## 2 Radiated Emissions

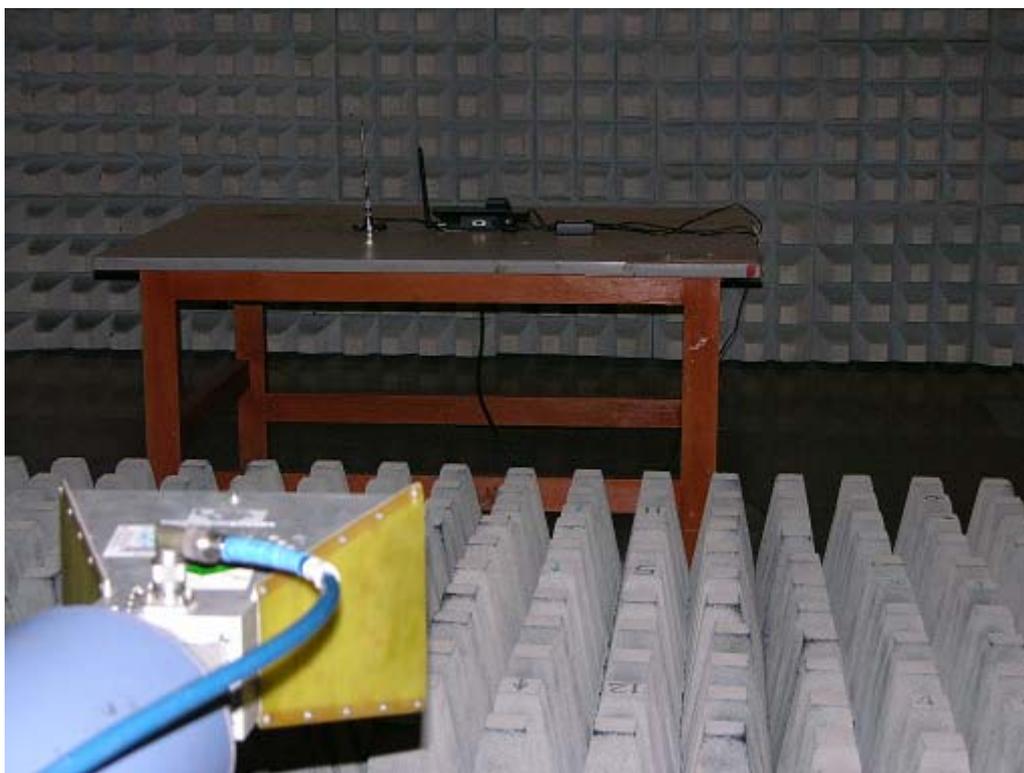


Radiated Disturbance

### 3 Radiated Spurious Emissions



Radiated Spurious Emission (below 1GHz)



Radiated Spurious Emission (above 1GHz)

## 4 Conducted Emissions



Conducted Emissions for AC Ports