



Appendix A

Peak-to-Average Ratio Measurement

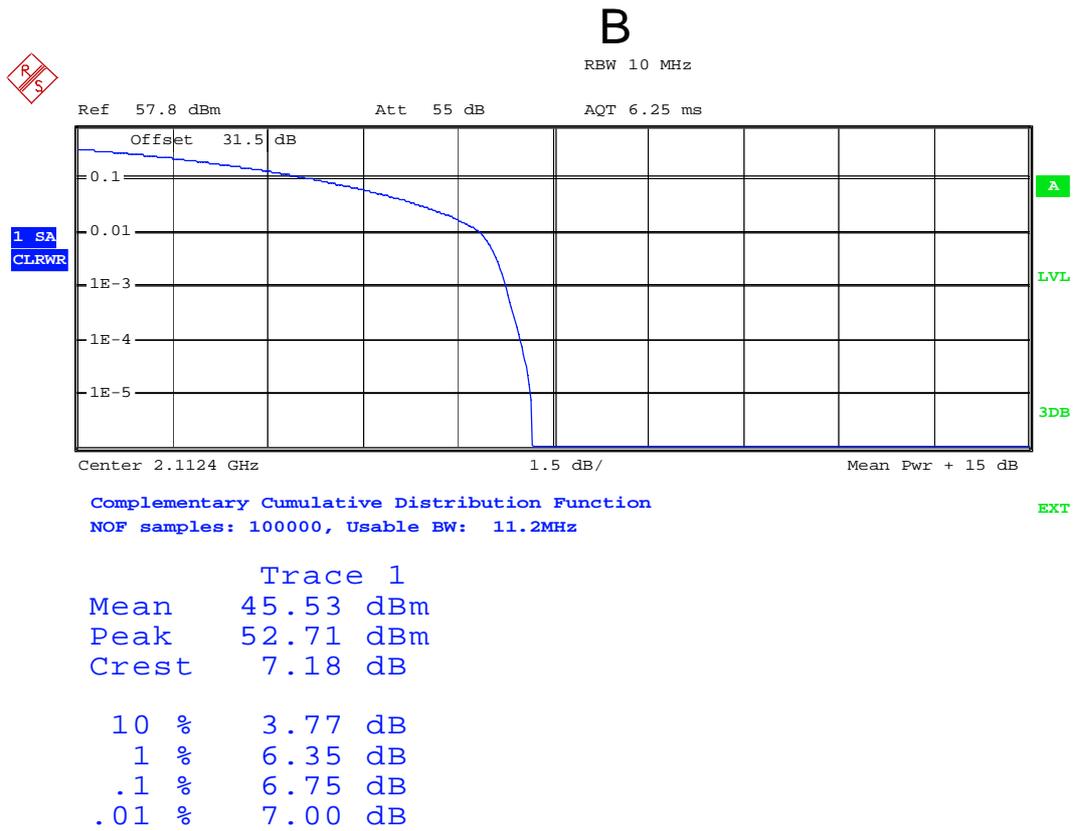
According to FCC part 2.1046 and part 27.50(d)

According to IC RSS-139 clause 6.4

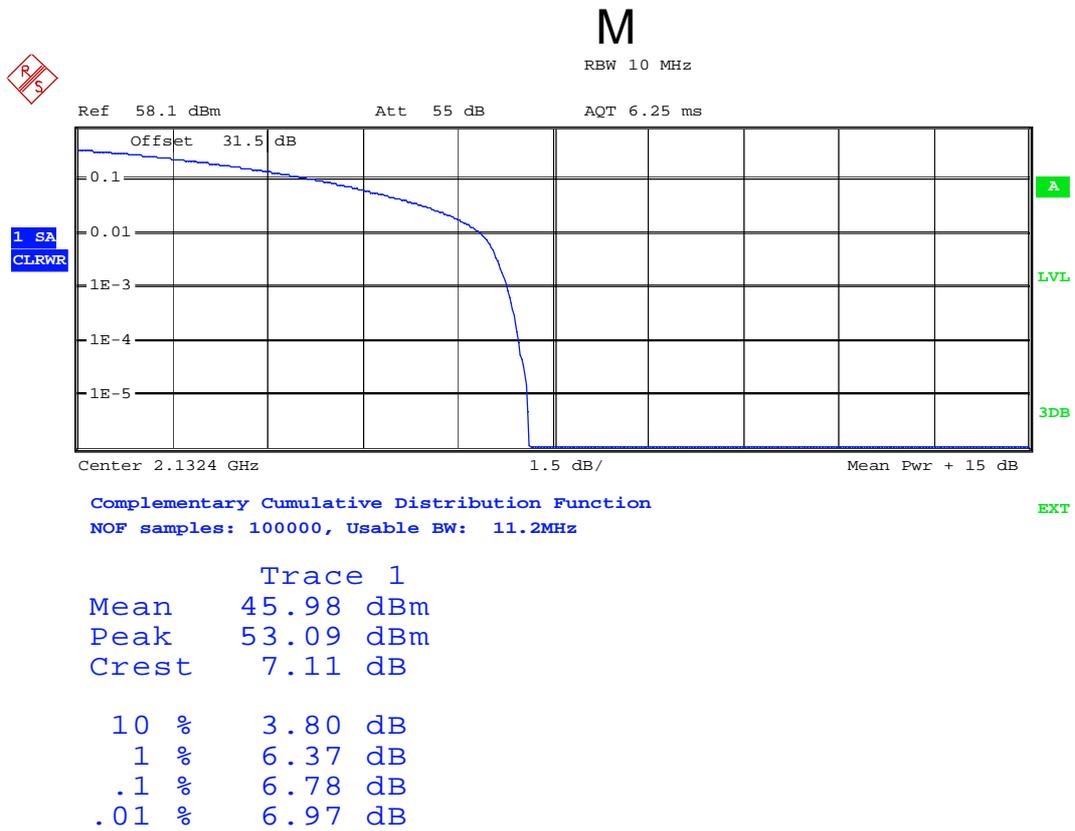


1. Multiple Carriers = 1

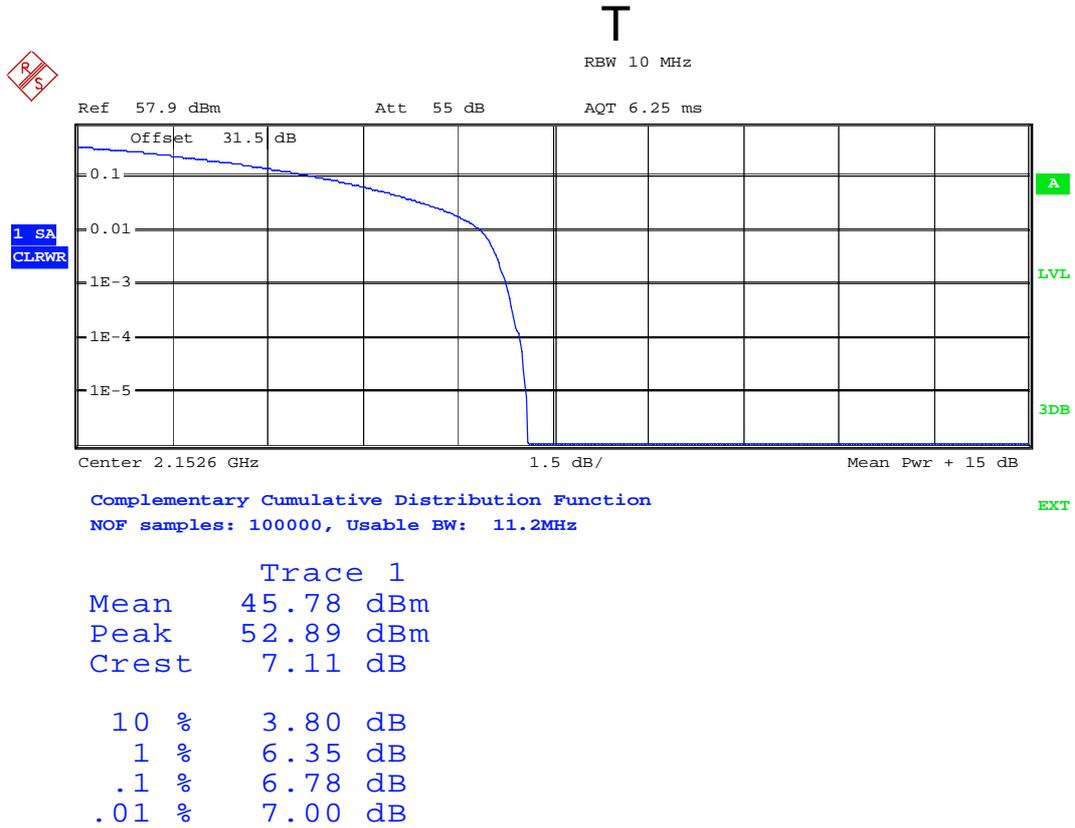
(1) TM 1



Date: 10.MAR.2010 14:26:33



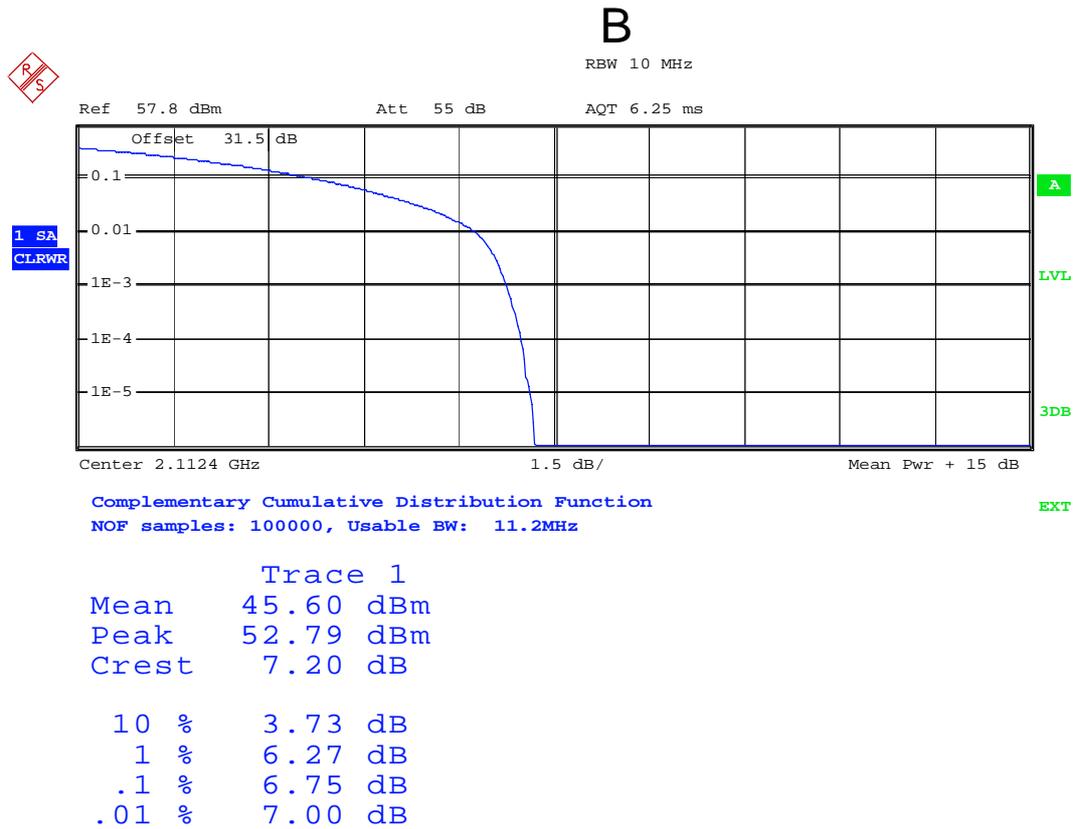
Date: 10.MAR.2010 15:34:59



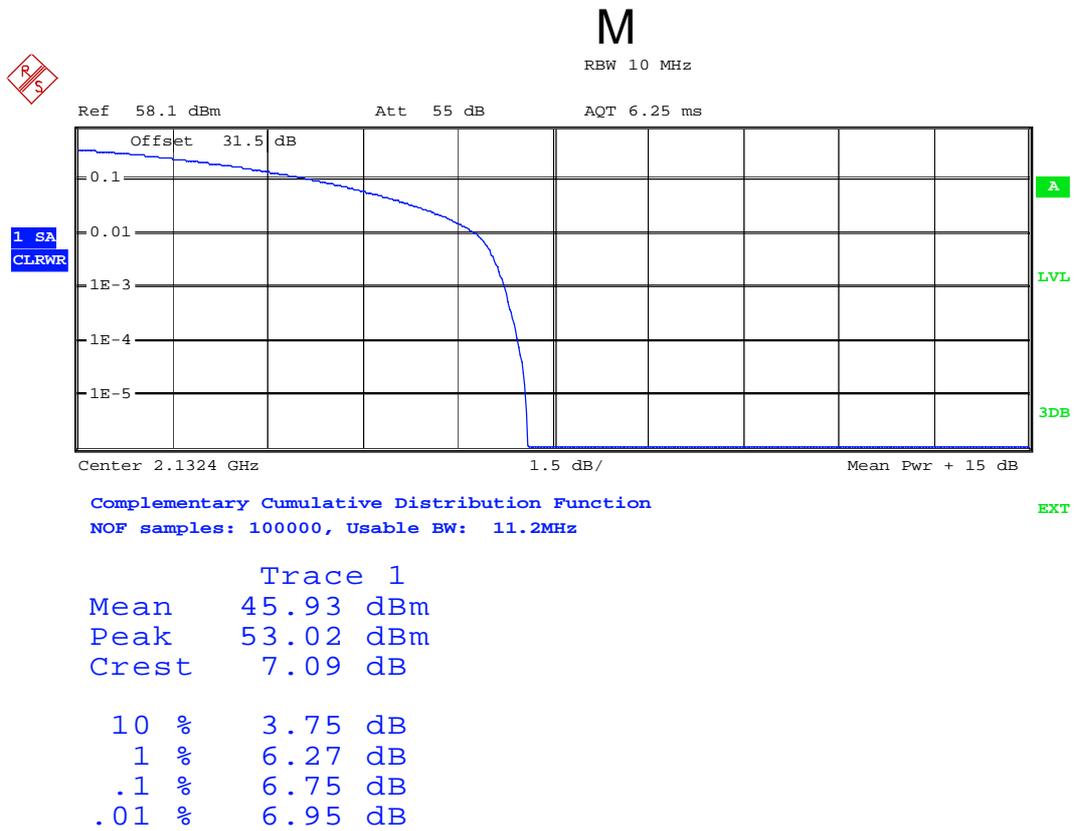
Date: 10.MAR.2010 16:06:33



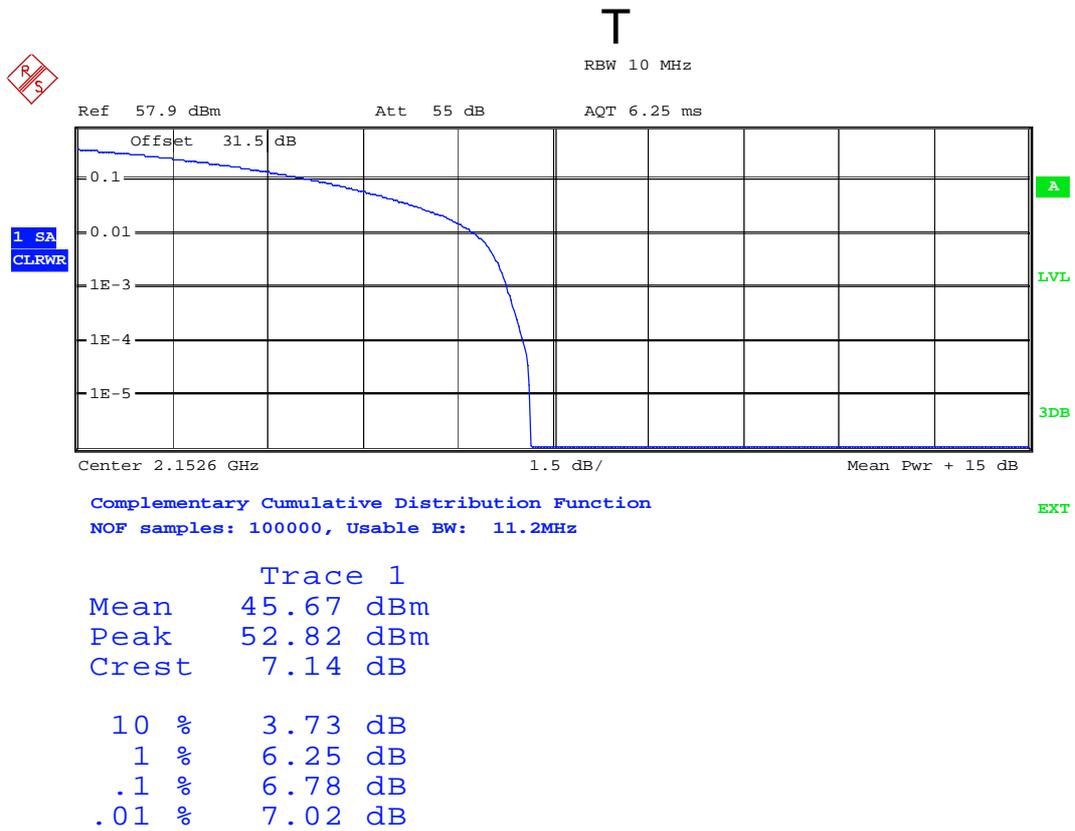
(2) TM 5



Date: 10.MAR.2010 15:11:50



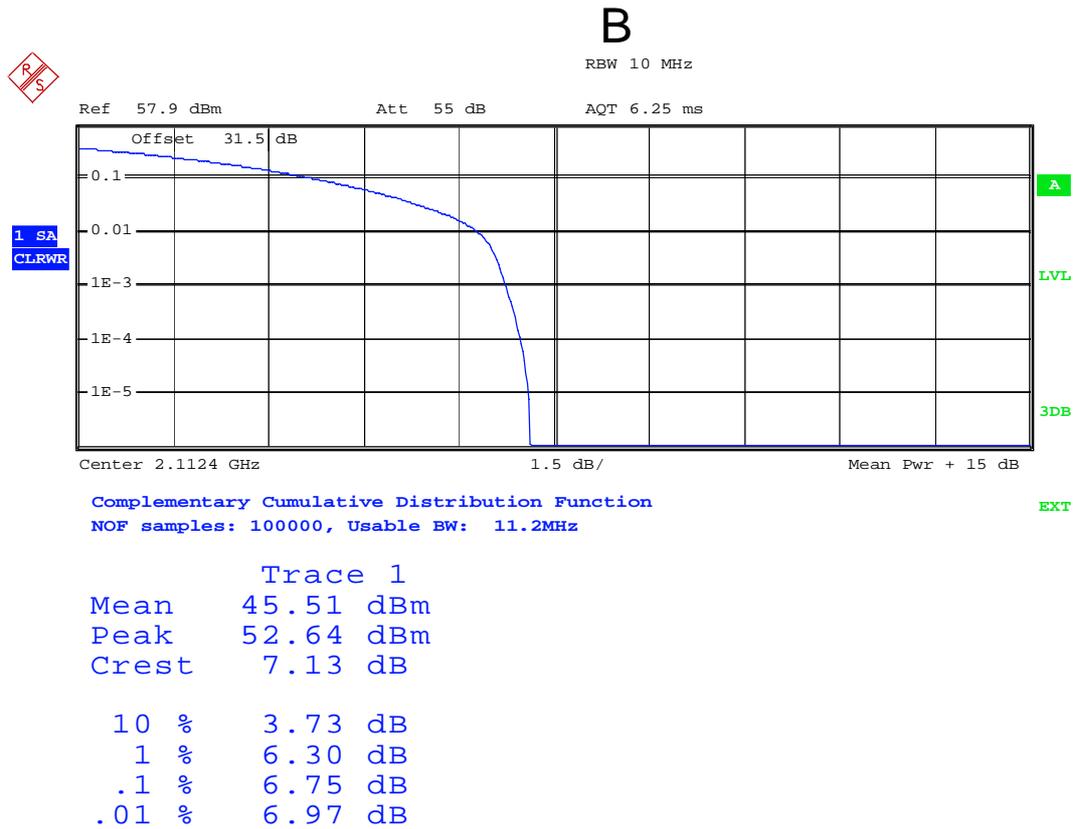
Date: 10.MAR.2010 15:32:52



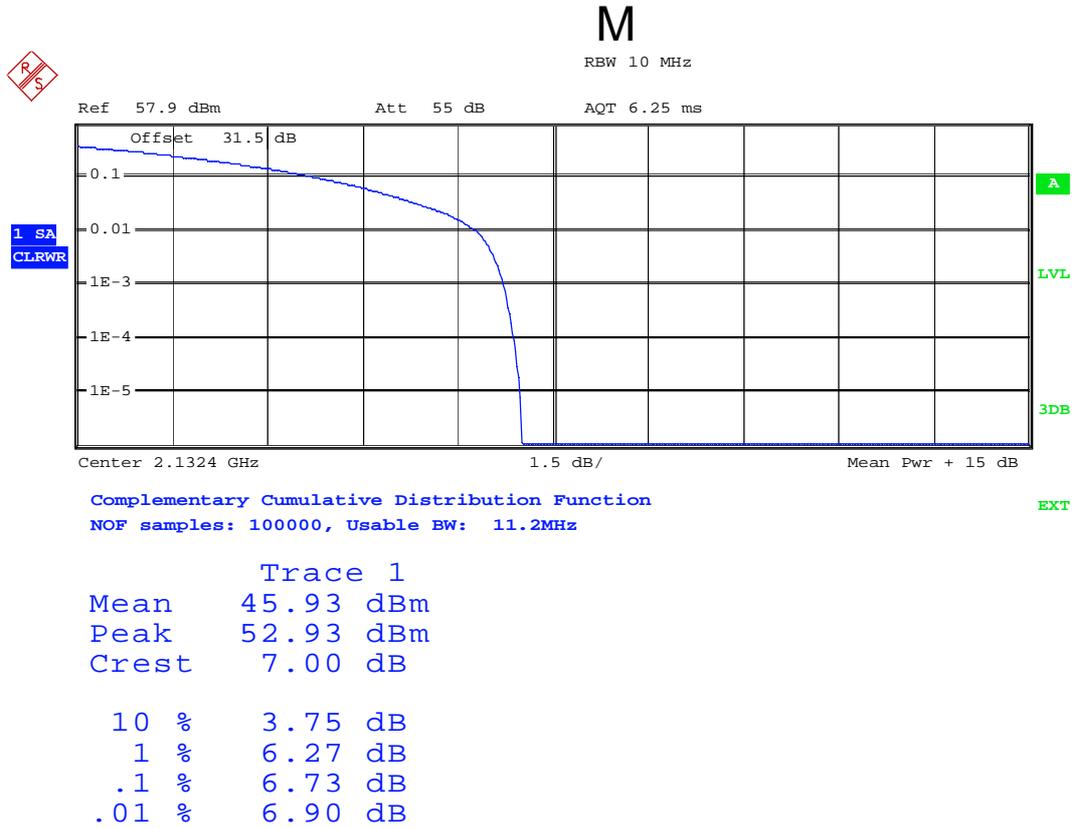
Date: 10.MAR.2010 16:07:10



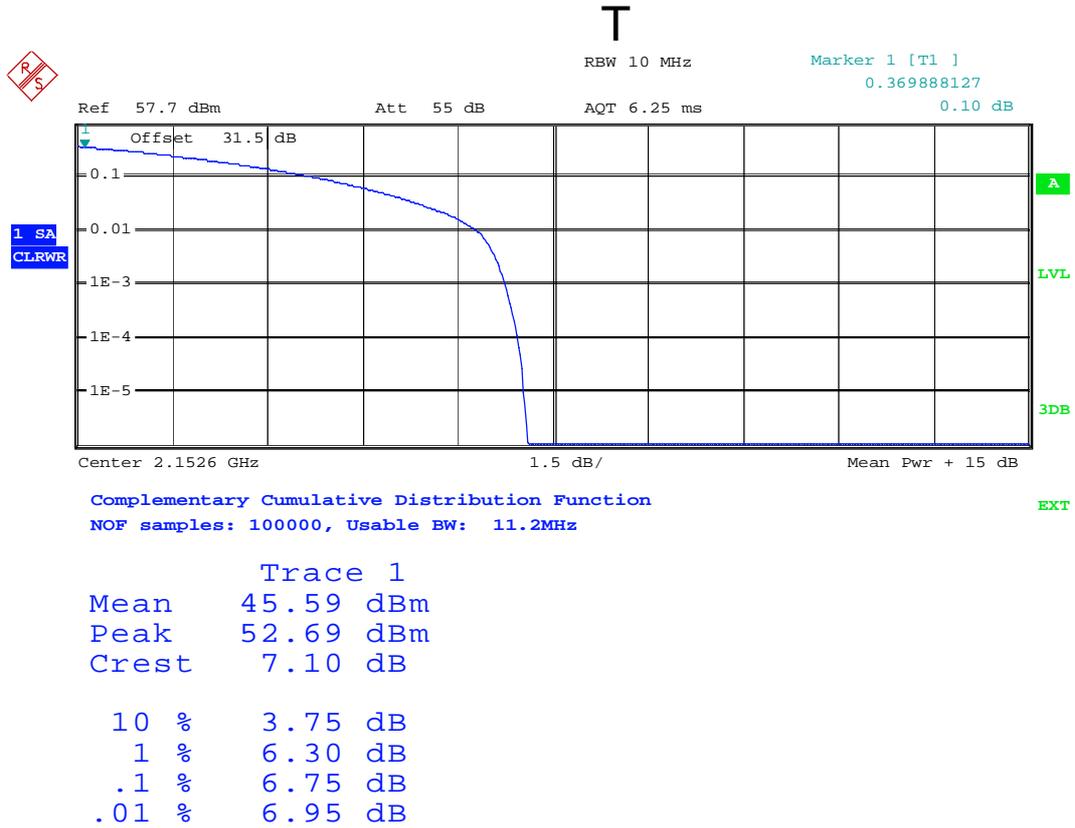
(3) TM 6



Date: 11.MAR.2010 11:01:50



Date: 11.MAR.2010 10:58:10



Date: 11.MAR.2010 11:07:24



Appendix B

Modulation Characteristic Measurement

According to FCC part 2.1047 and part 27 subpart C

According to IC RSS-139 clause 6.2

1. Multiple Carriers = 1

(1) TM 1

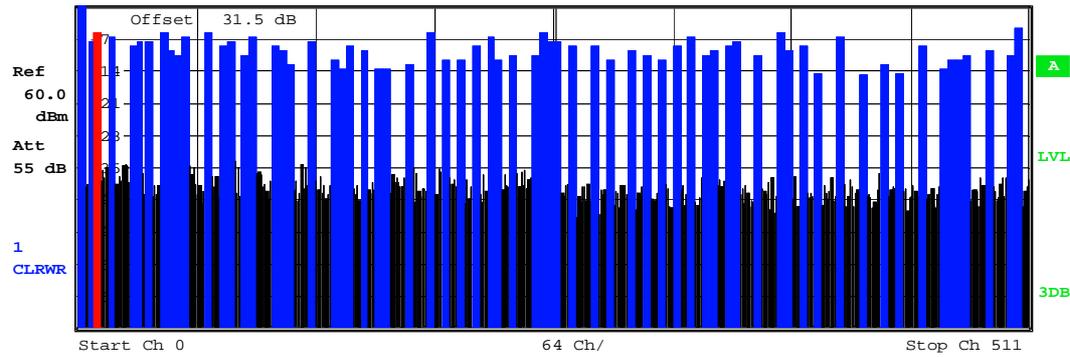
M



Code Power Relative

SR 30 ksps
 Chan Code 2
 Chan Slot 7

CF 2.1324 GHz CPICH Slot 0



Result Summary

SR 30 ksps
 Chan Code 2
 Chan Slot 7

CF 2.1324 GHz CPICH Slot 0

Ref 60.0 dBm	GLOBAL RESULTS FOR FRAME 0:		Carrier Freq Error	-5.49 Hz	B
	Total Power	46.00 dBm	Trigger to Frame	-266.396774 µs	
	Chip Rate Error	0.00 ppm	Avg Pow Ina Chan	-55.50 dB	
Att 55 dB	IQ Offset / Imb		0.15 / 0.10 %	Pk CDE (15 ksps)	-44.80 dB
	Composite EVM		5.40 %	Avg RCDE (64QAM)	-.-- dB
1 CLRWR	Rho		0.99709	No of Active Chan	68
	CHANNEL RESULTS		RCDE	-29.05 dB	3DB
	Symbol Rate	30.00 ksps	Timing Offset	22016 Chips	
	Channel Code	2	Channel Slot No	7	
	No of Pilot Bits	8	Modulation Type	QPSK	
	Channel Power Rel	-6.03 dB	Channel Power Abs	29.96 dBm	
	Symbol EVM	3.10 % rms	Symbol EVM	7.67 % Pk	

Date: 10.MAR.2010 15:19:58



(2) TM 5

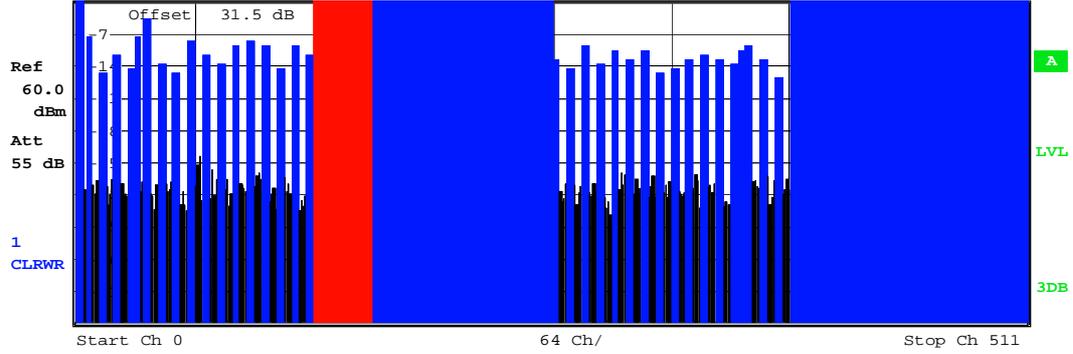
M



Code Power Relative

SR 240 ksps
 Chan Code 4
 Chan Slot 0

CF 2.1324 GHz CPICH Slot 0



Result Summary

SR 240 ksps
 Chan Code 4
 Chan Slot 0

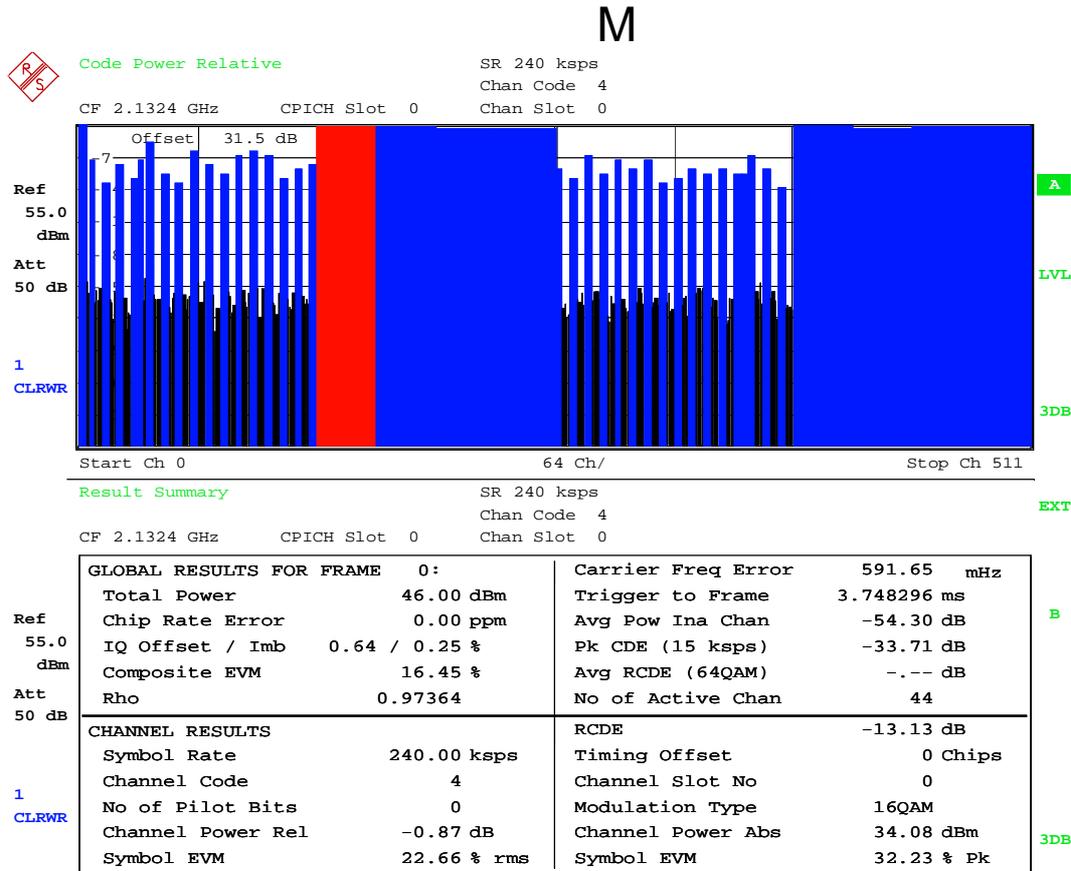
CF 2.1324 GHz CPICH Slot 0

Ref 60.0 dBm Att 55 dB	GLOBAL RESULTS FOR FRAME 0:		Carrier Freq Error	-639.02 mHz	B
	Total Power	46.00 dBm	Trigger to Frame	914.837575 μs	
	Chip Rate Error	-0.00 ppm	Avg Pow Ina Chan	-56.88 dB	
	IQ Offset / Imb	0.14 / 0.14 %	Pk CDE (15 ksps)	-47.61 dB	
1 CLRWR	Composite EVM	4.16 %	Avg RCDE (64QAM)	-.-- dB	3DB
	Rho	0.99827	No of Active Chan	44	
CHANNEL RESULTS			RCDE	-28.63 dB	
	Symbol Rate	240.00 ksps	Timing Offset	0 Chips	
	Channel Code	4	Channel Slot No	0	
	No of Pilot Bits	0	Modulation Type	16QAM	
	Channel Power Rel	0.10 dB	Channel Power Abs	35.12 dBm	
	Symbol EVM	3.70 % rms	Symbol EVM	13.82 % Pk	

Date: 10.MAR.2010 15:26:38

(3) TM 6

Note: due to the unequipped functional option of the signal analyzer for TM6, the plot is only for reference. However, the digital modulation for TM6 can be obviously identified out.



Date: 11.MAR.2010 10:55:47



Appendix C

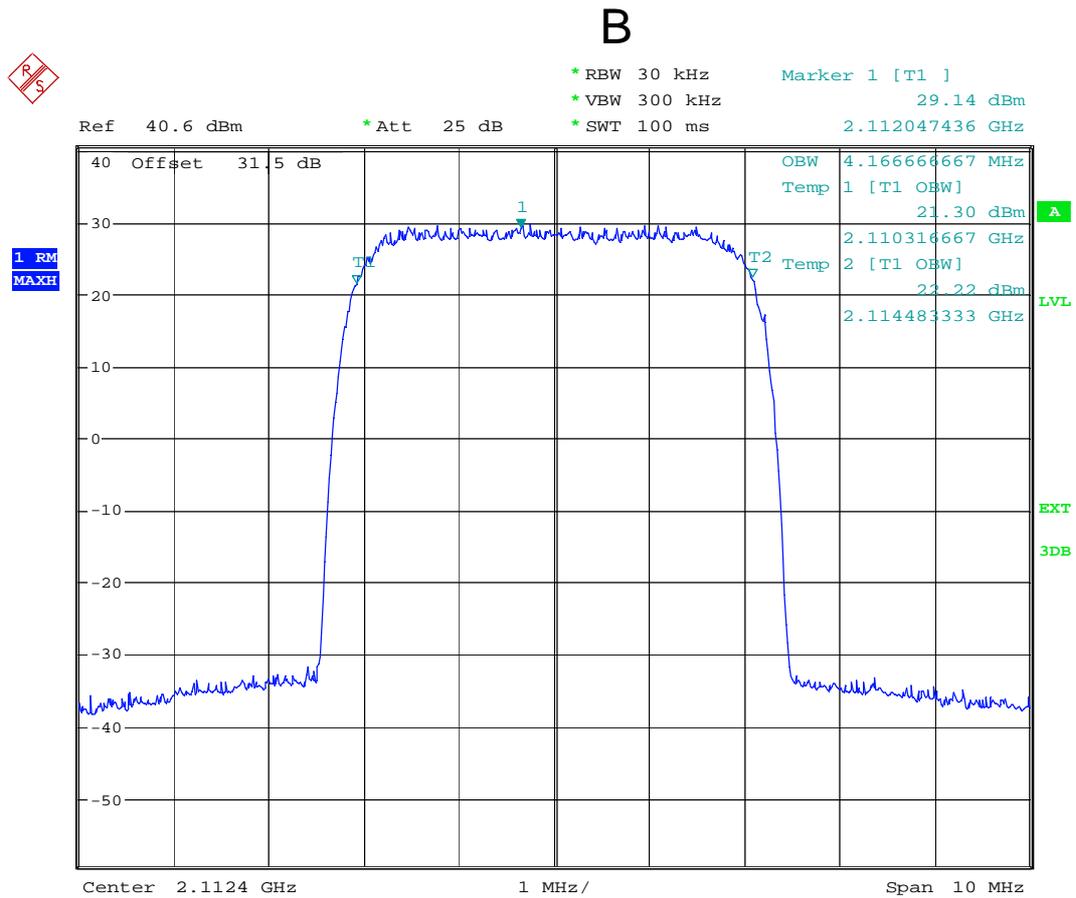
Occupied Bandwidth Measurement

According to FCC part 2.1049 and part 27 subpart C & L
According to IC RSS-Gen clause 4.6.1



1. Multiple Carriers = 1

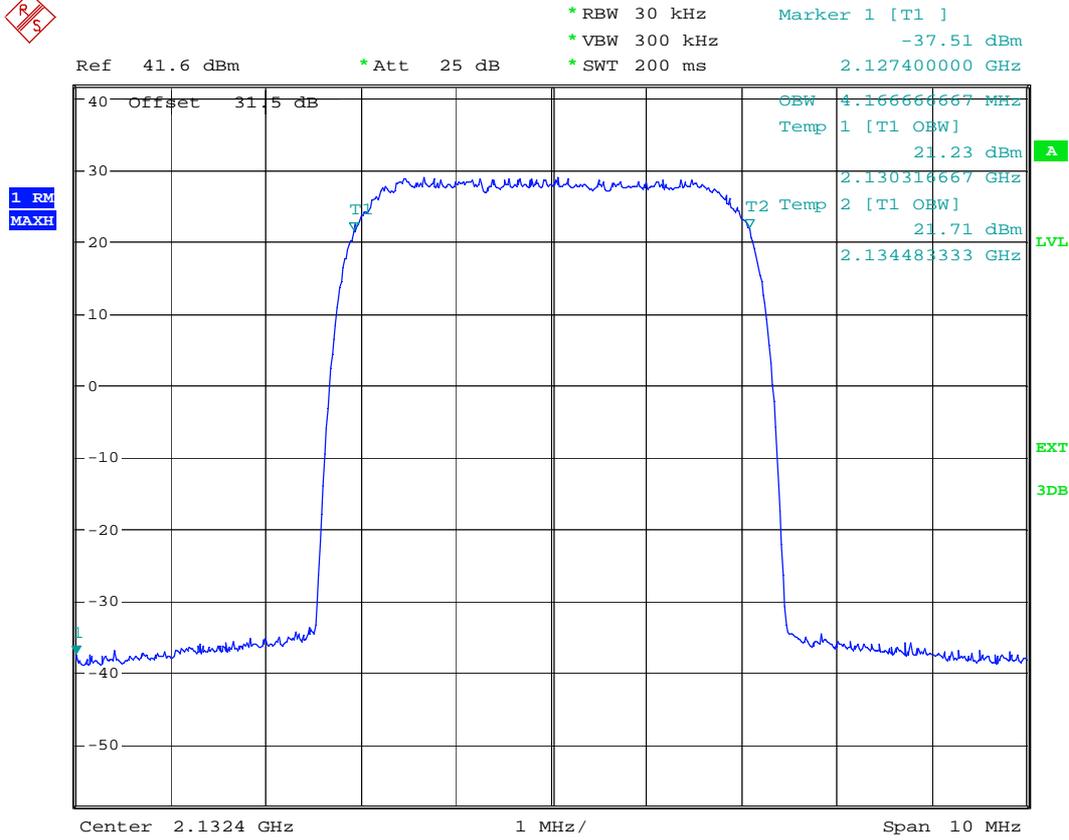
(1) TM 1



Date: 10.MAR.2010 14:25:28



M



Date: 10.MAR.2010 15:17:36

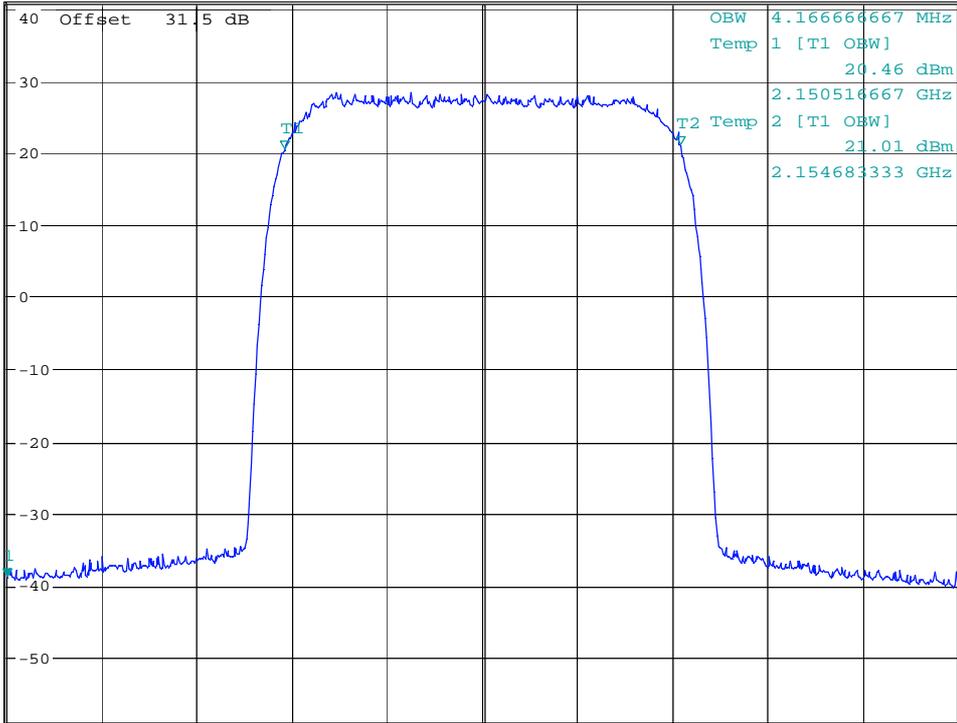


T

1. RM
MAXH

*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz -38.96 dBm
 *SWT 200 ms 2.147600000 GHz

Ref 40.9 dBm *Att 25 dB

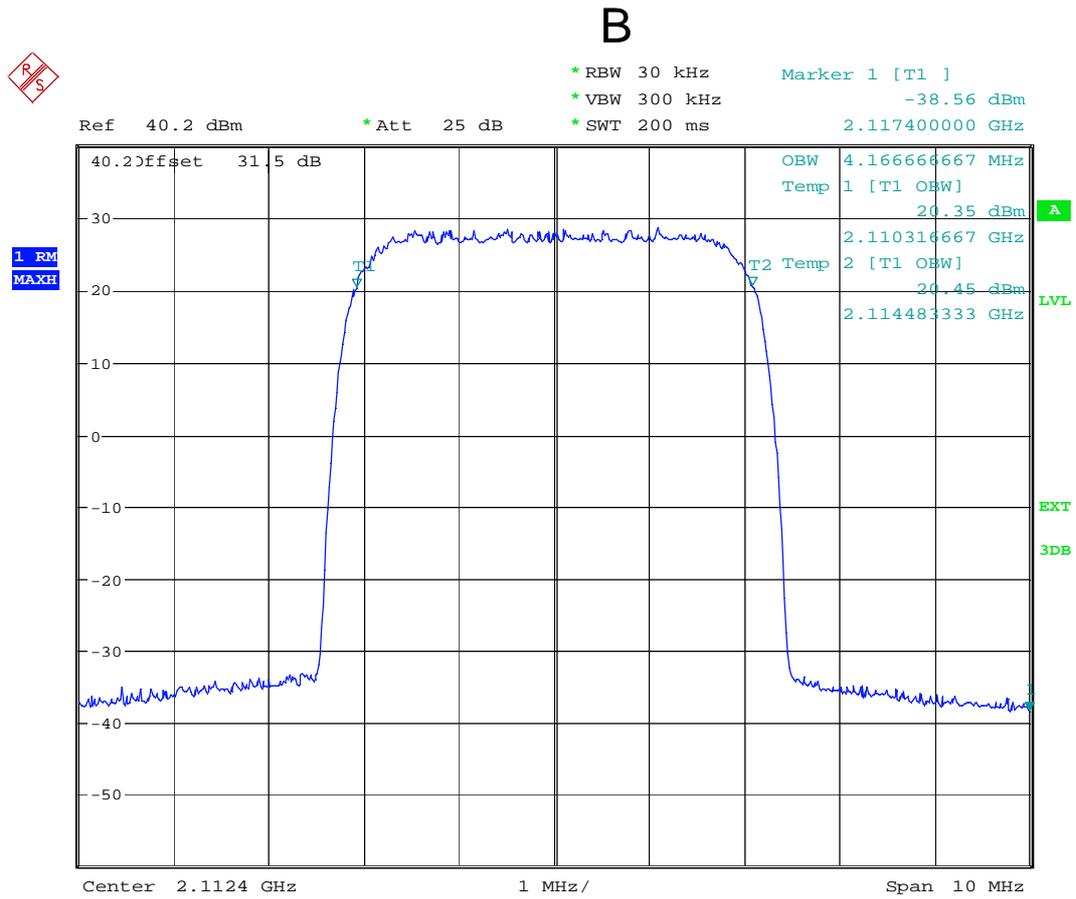


Center 2.1526 GHz 1 MHz/ Span 10 MHz

Date: 10.MAR.2010 16:05:53



(2) TM 5



Date: 10.MAR.2010 15:11:13

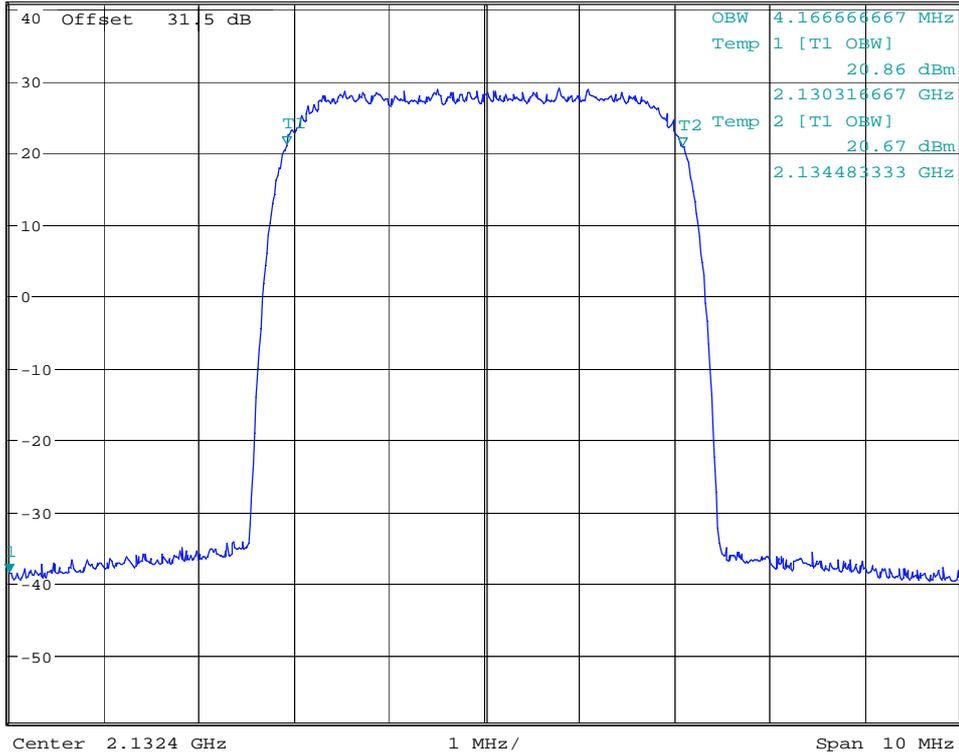


M



Ref 40.8 dBm *Att 25 dB *RBW 30 kHz *VBW 300 kHz *SWT 200 ms
 Marker 1 [T1] -38.59 dBm 2.127400000 GHz

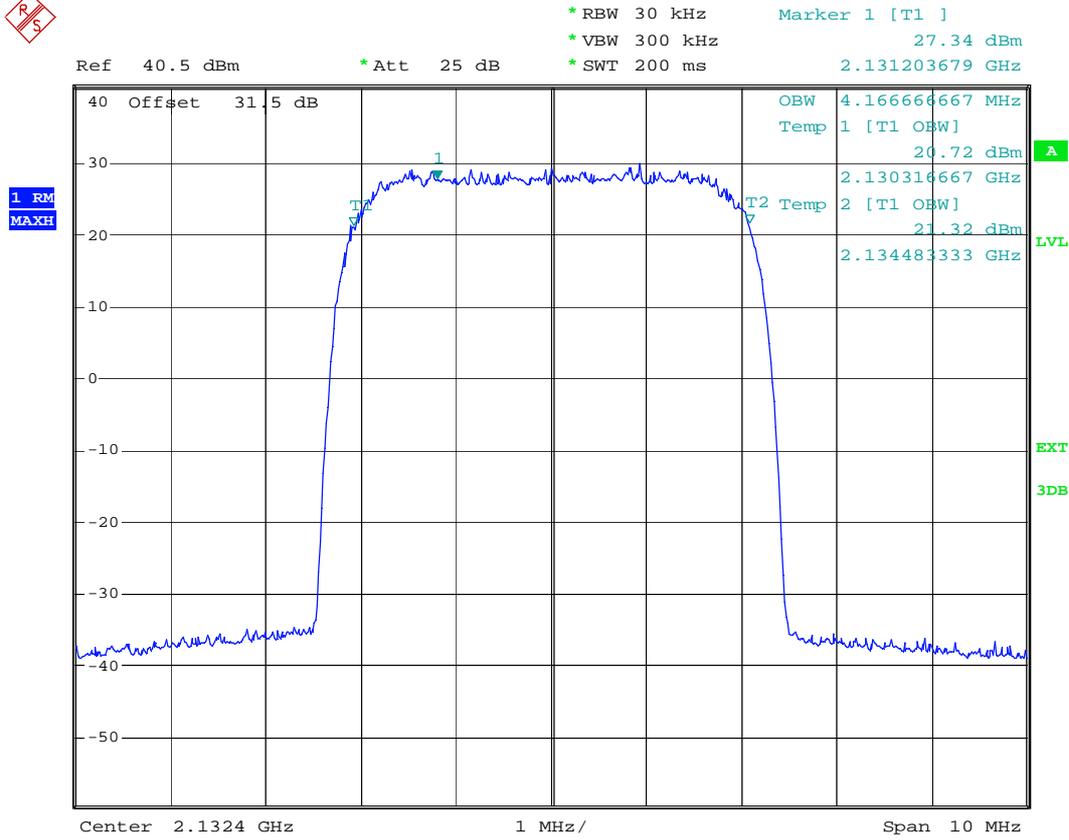
1. RM
MAXH



Date: 10.MAR.2010 15:32:13



M



Date: 11.MAR.2010 10:57:34



Appendix D

Band Edge Measurement

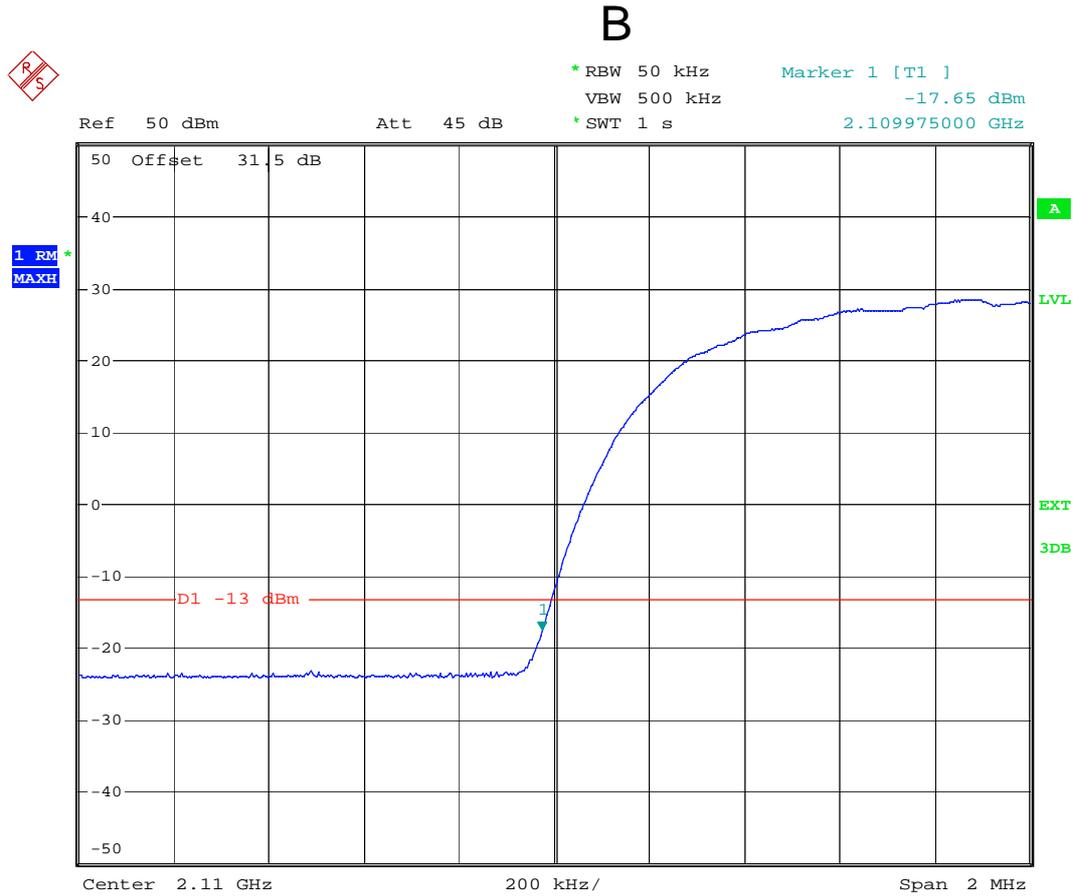
According to FCC part 2.1051 and part 27.53(g)

According to IC RSS-139 clause 6.5

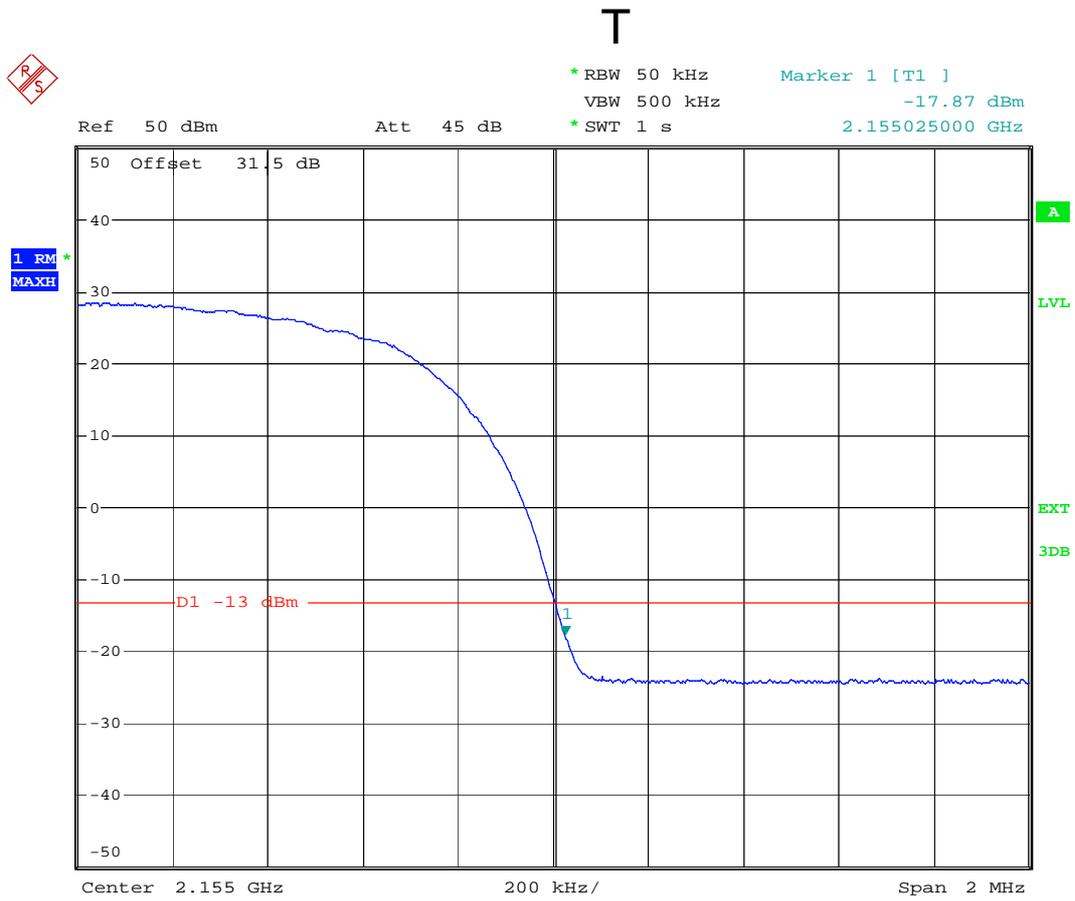


1. Multiple Carriers = 1

(1) TM 1



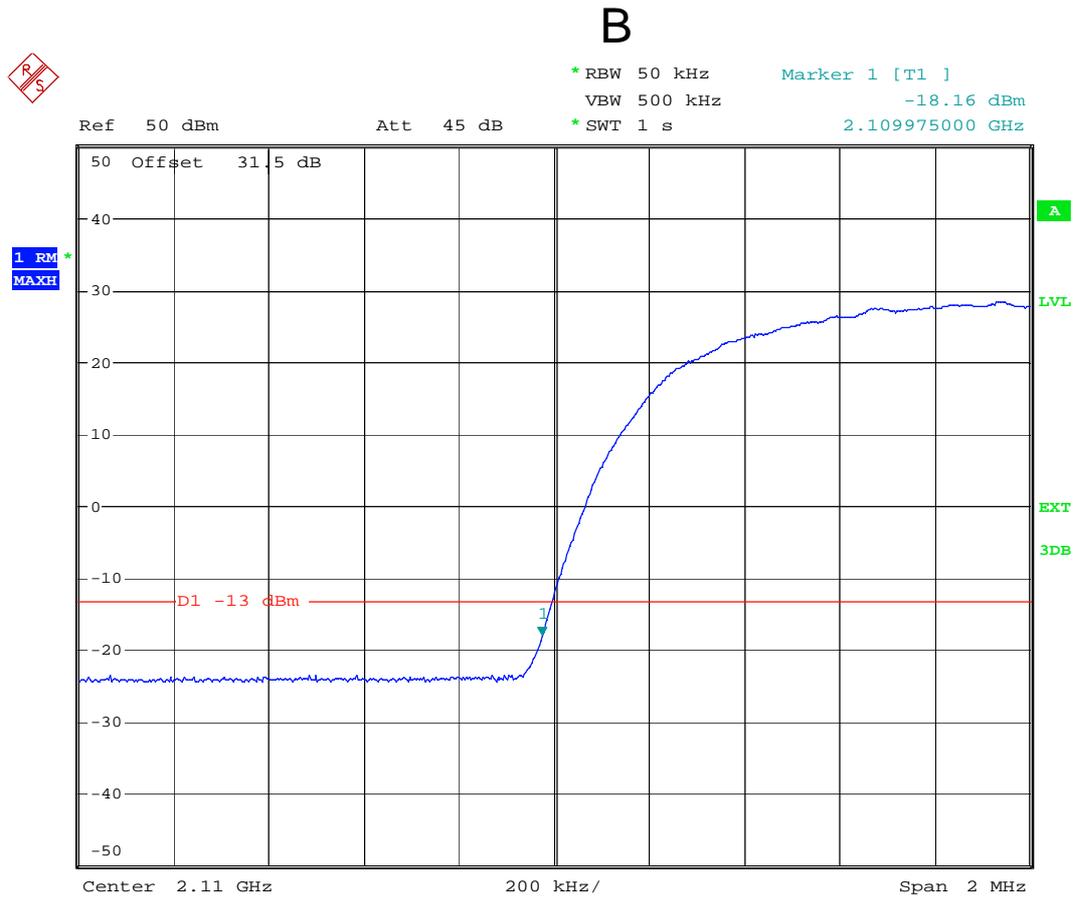
Date: 10.MAR.2010 14:36:08



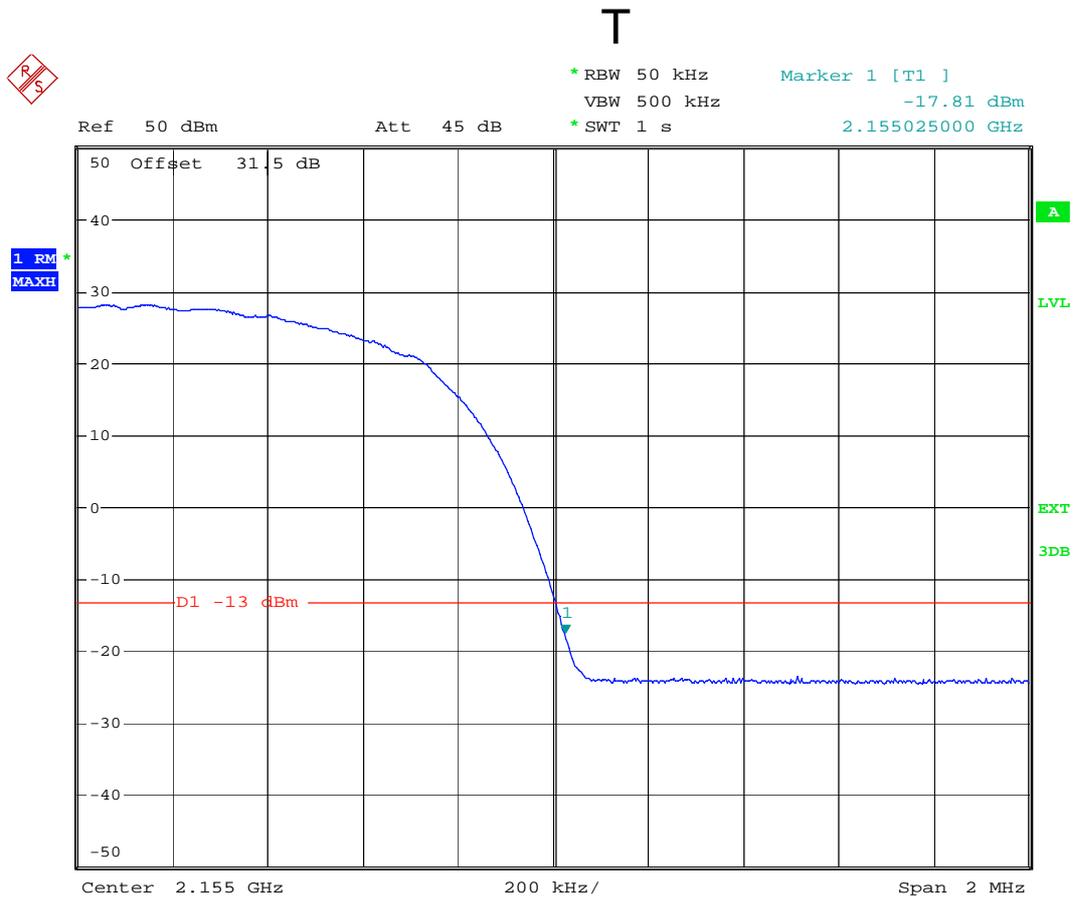
Date: 10.MAR.2010 16:00:21



(2) TM 5



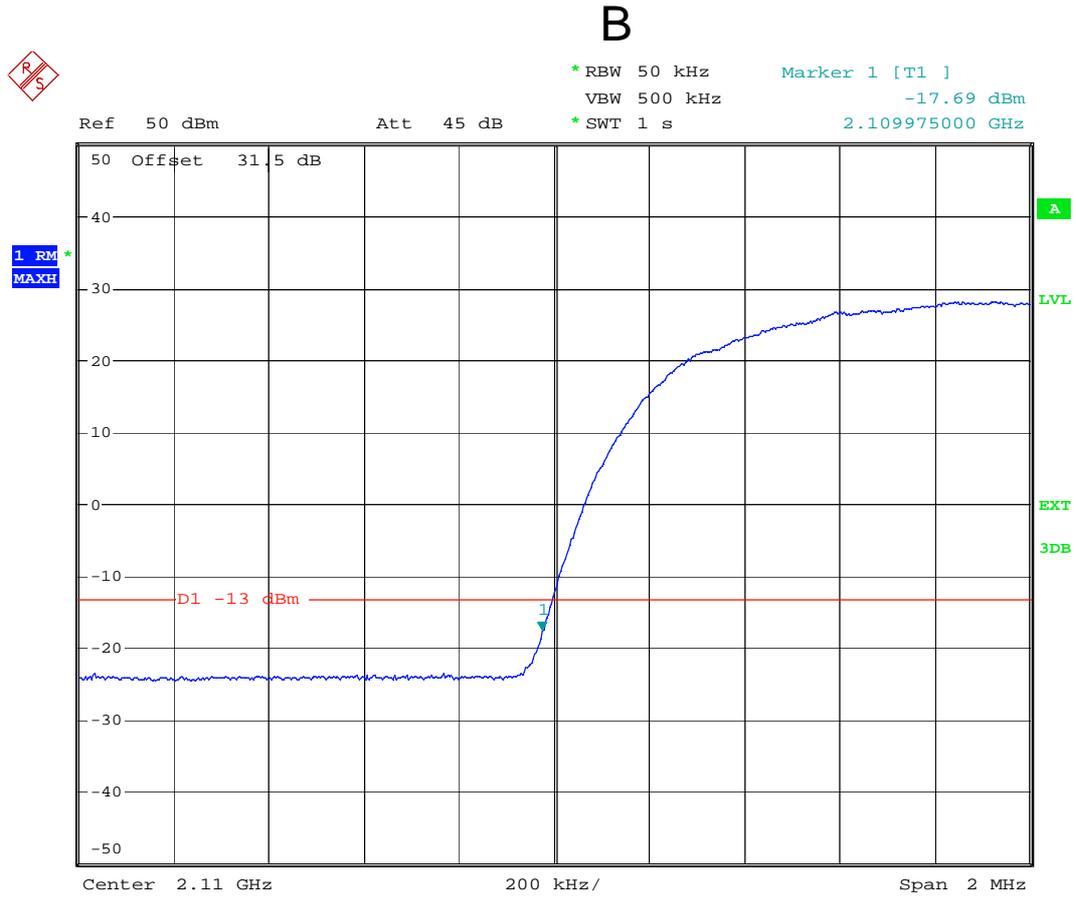
Date: 10.MAR.2010 15:07:10



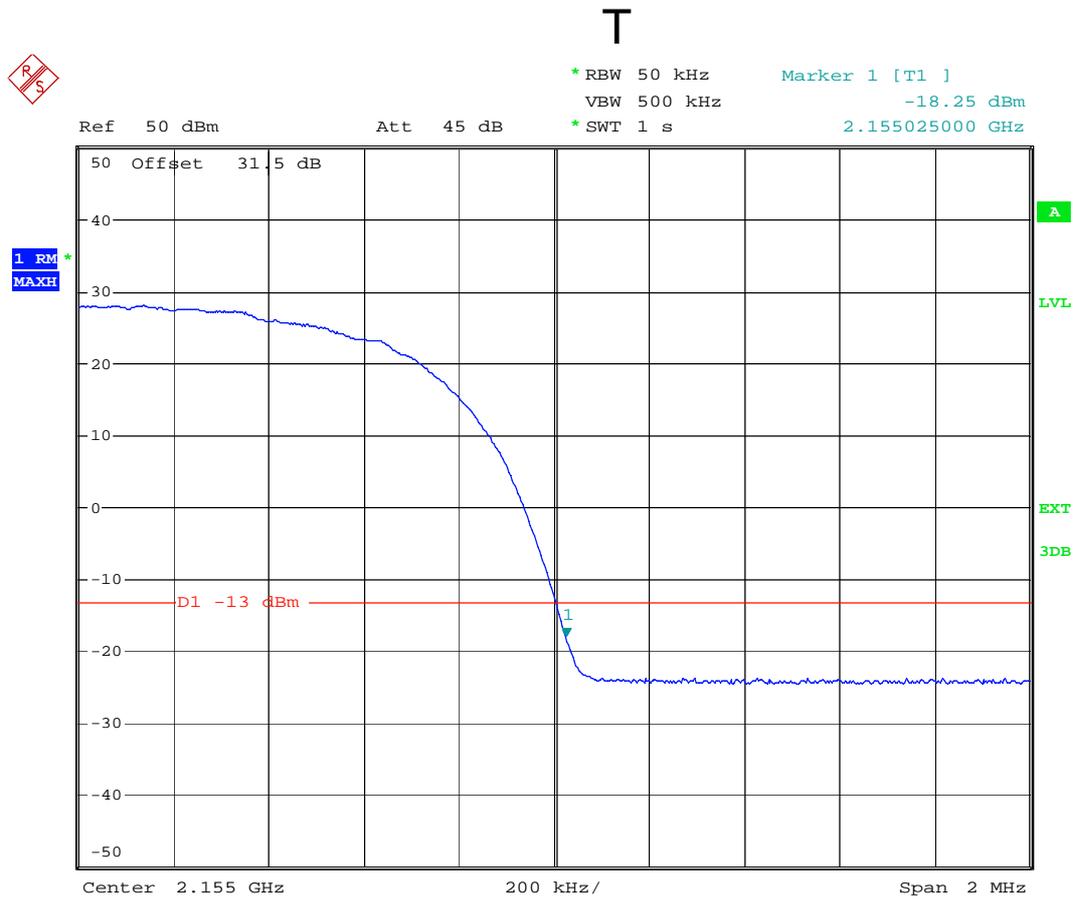
Date: 10.MAR.2010 15:59:04



(3) TM 6



Date: 11.MAR.2010 11:20:40

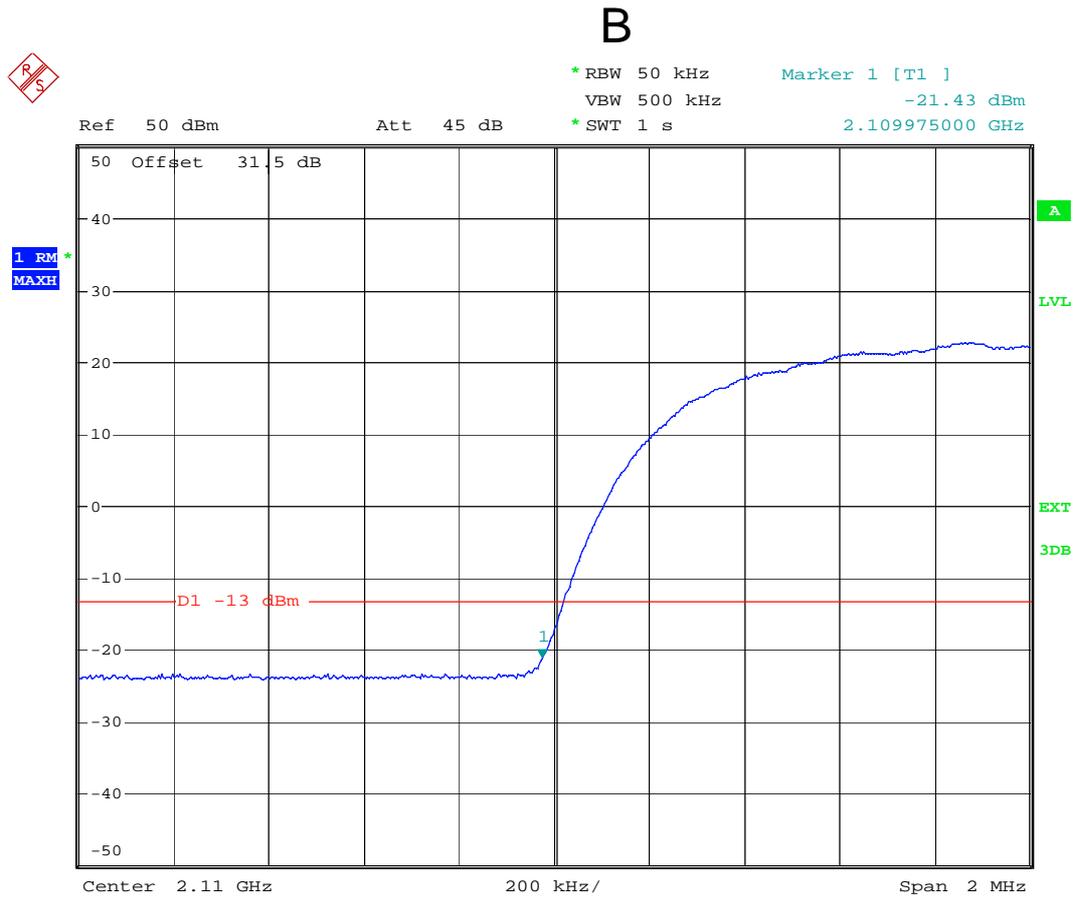


Date: 11.MAR.2010 11:09:59

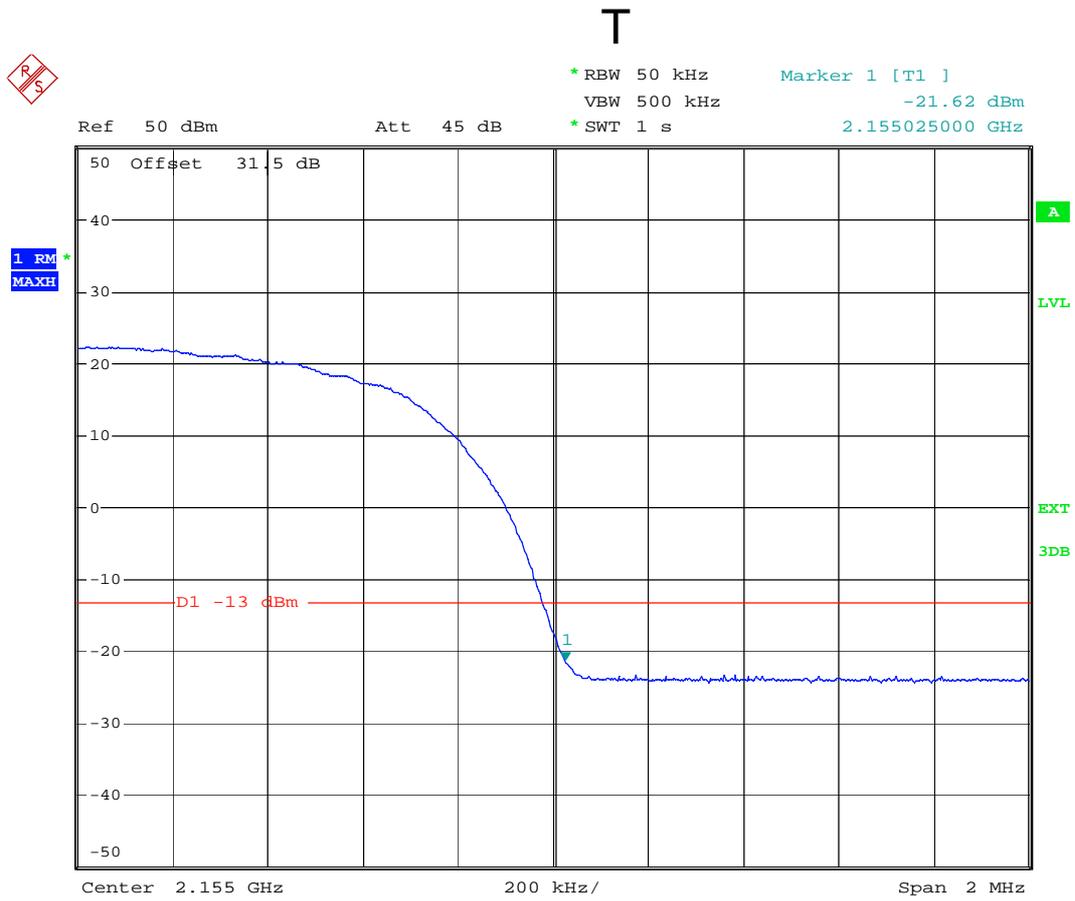


2. Multiple Carriers = 4

(1) TM 1



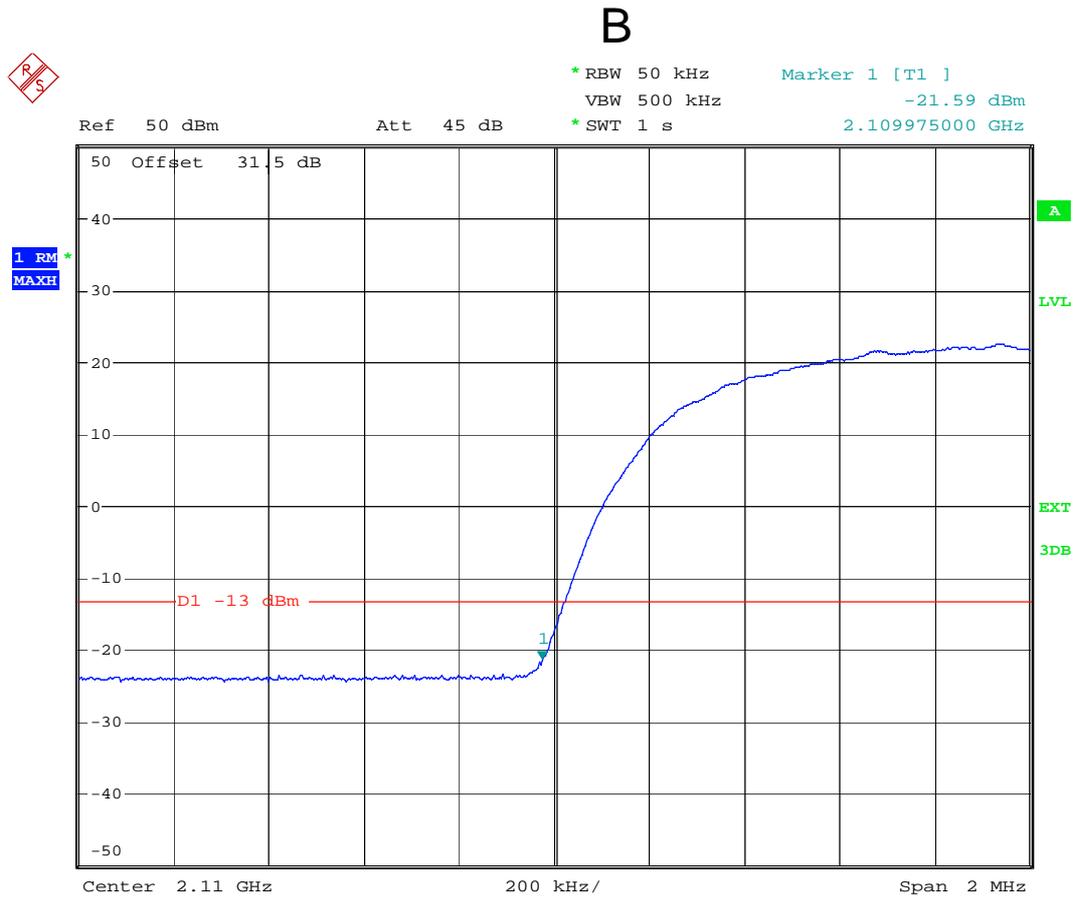
Date: 10.MAR.2010 18:40:58



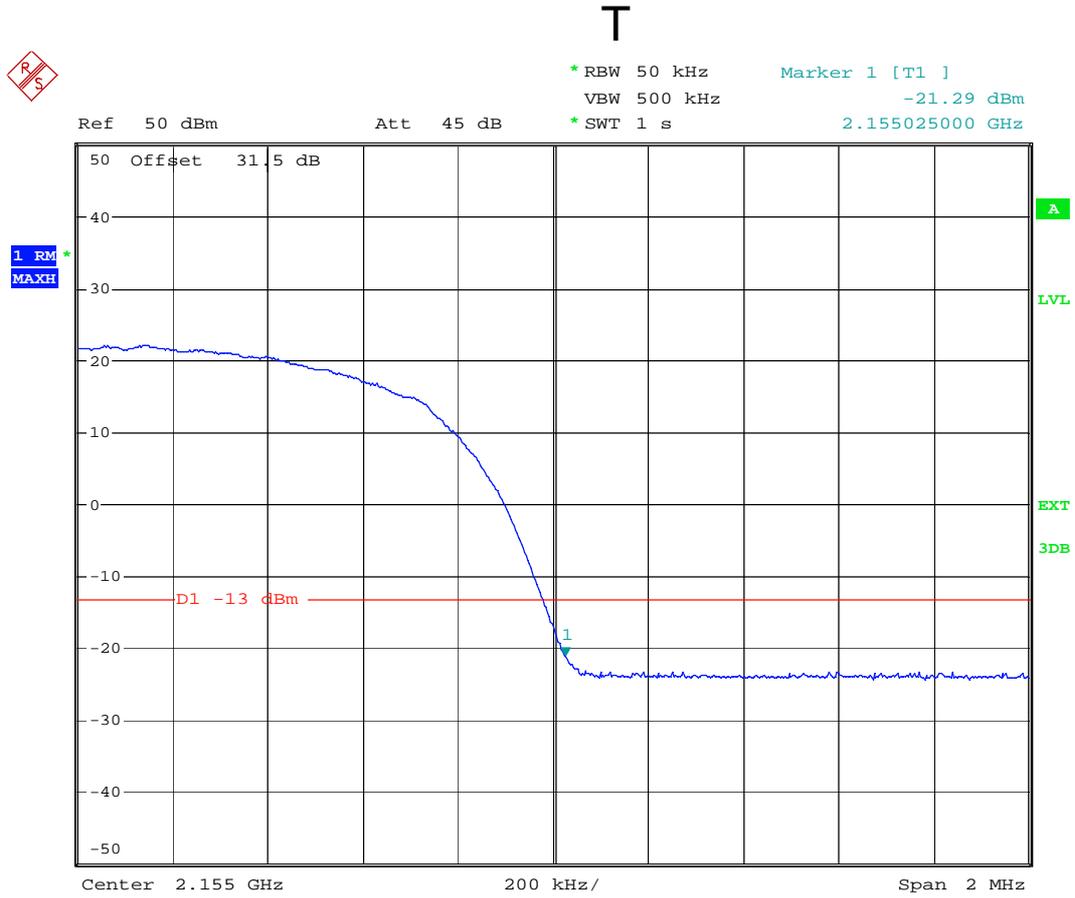
Date: 10.MAR.2010 19:22:48



(2) TM 5



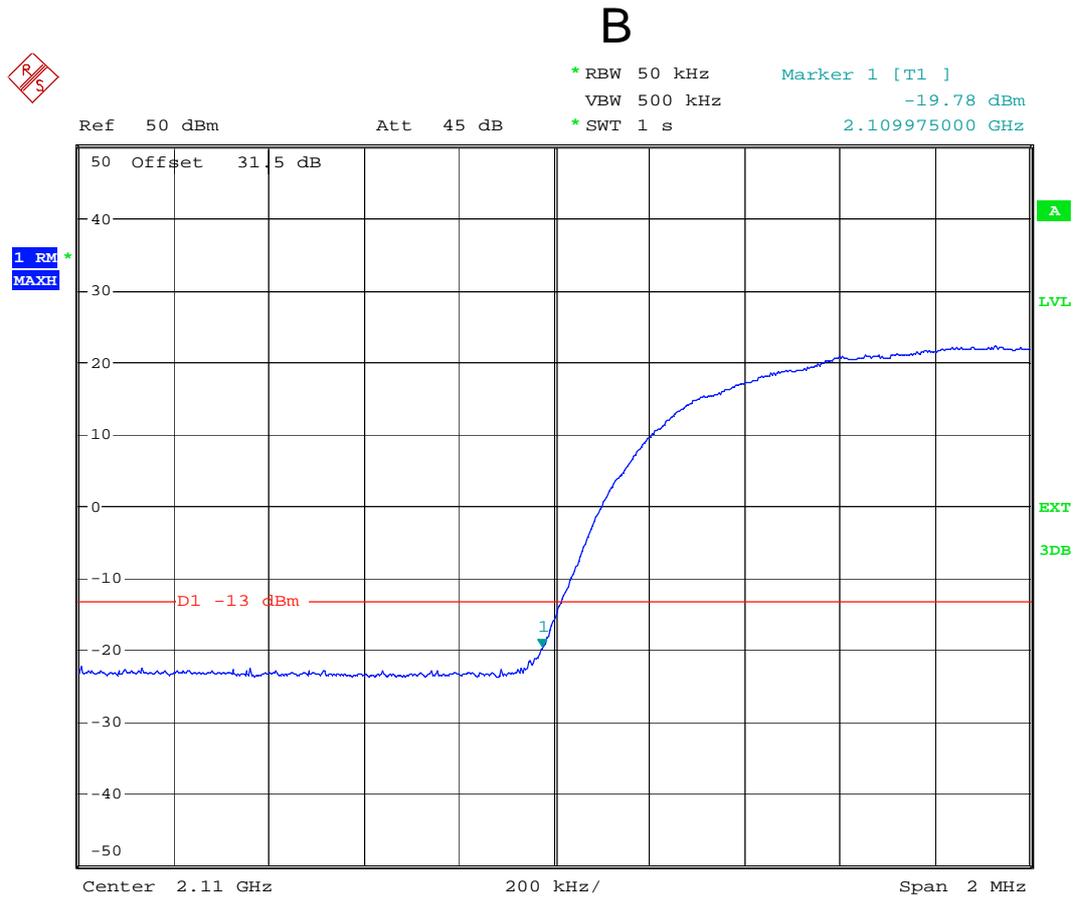
Date: 10.MAR.2010 18:43:25



Date: 10.MAR.2010 19:24:25



(3) TM 6



Date: 11.MAR.2010 11:57:12



Appendix E

Spurious Emission at Antenna Terminal Measurement

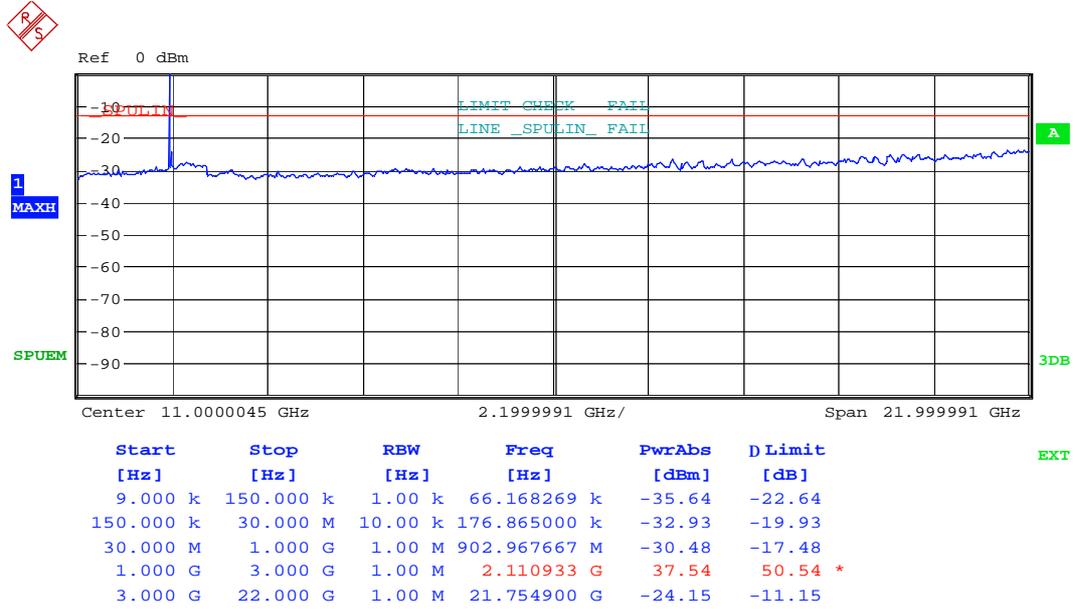
According to FCC part 2.1051 and part 27.53(g)
According to IC RSS-Gen clause 4.9, RSS-139 clause 6.5



1. Multiple Carriers = 1

(1) TM 1

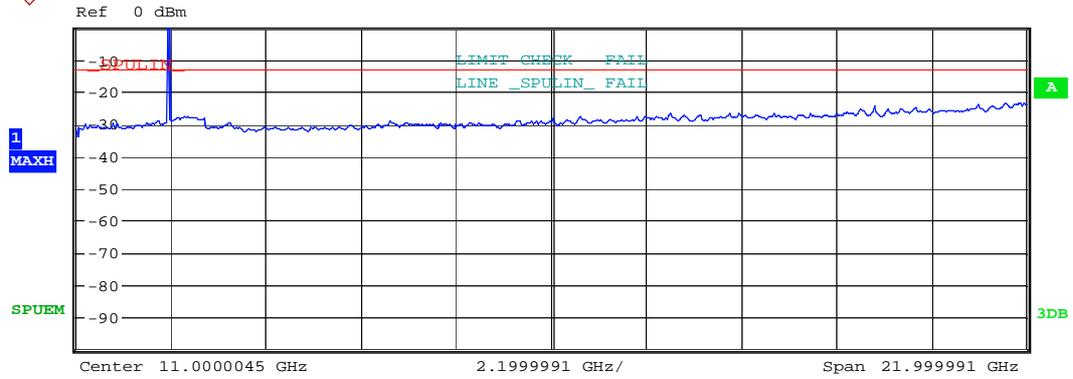
B



Date: 10.MAR.2010 15:01:52



M

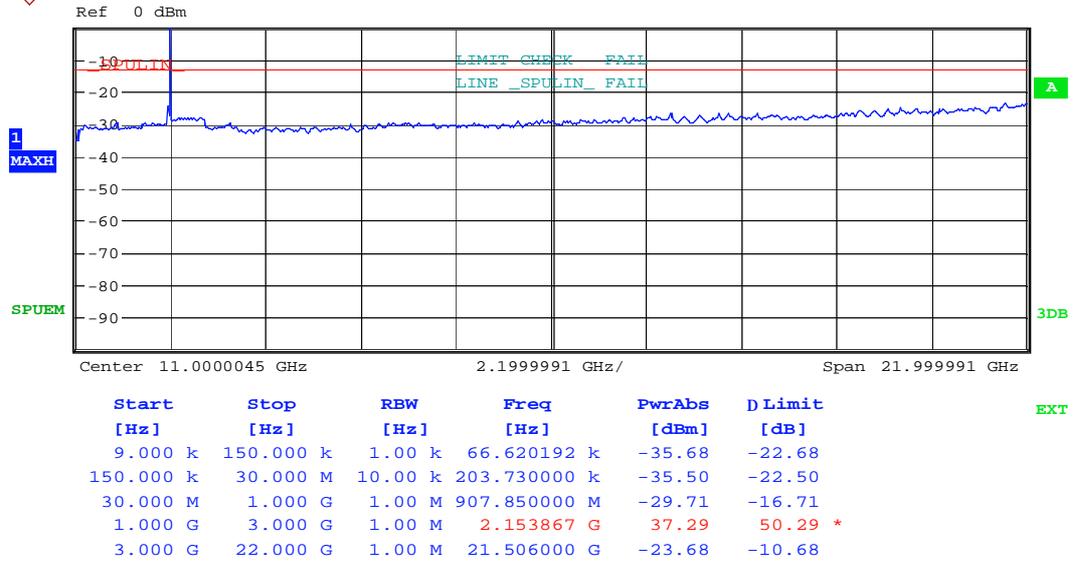


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	D Limit [dB]	EXT
9.000 k	150.000 k	1.00 k	66.620192 k	-35.23	-22.23	
150.000 k	30.000 M	10.00 k	179.850000 k	-33.97	-20.97	
30.000 M	1.000 G	1.00 M	834.356333 M	-30.02	-17.02	
1.000 G	3.000 G	1.00 M	2.131933 G	37.18	50.18 *	
3.000 G	22.000 G	1.00 M	21.500300 G	-23.61	-10.61	

Date: 10.MAR.2010 15:45:56



T

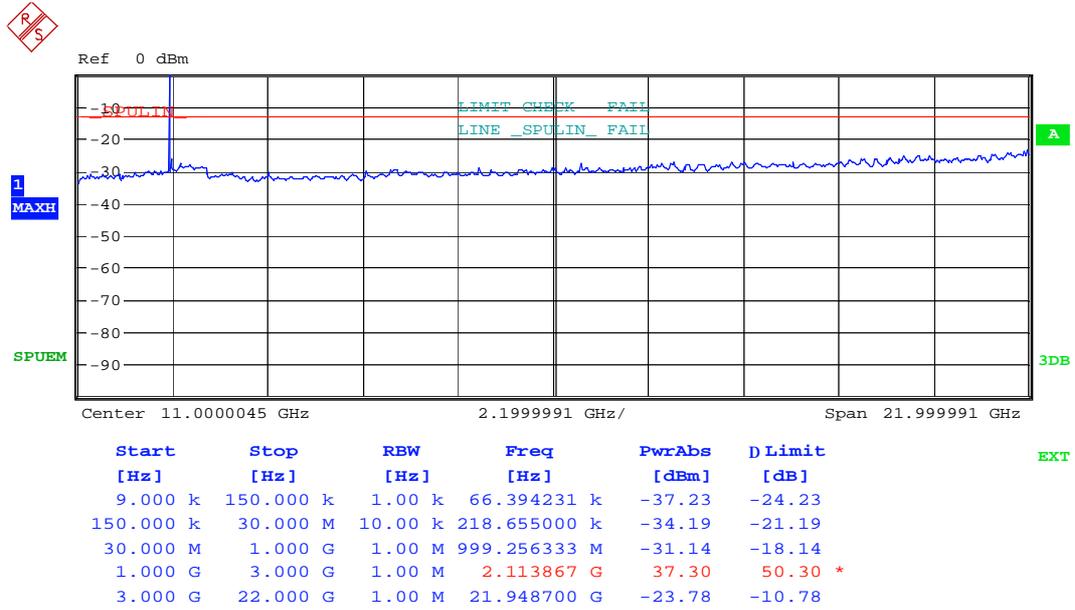


Date: 10.MAR.2010 15:53:10



(2) TM 5

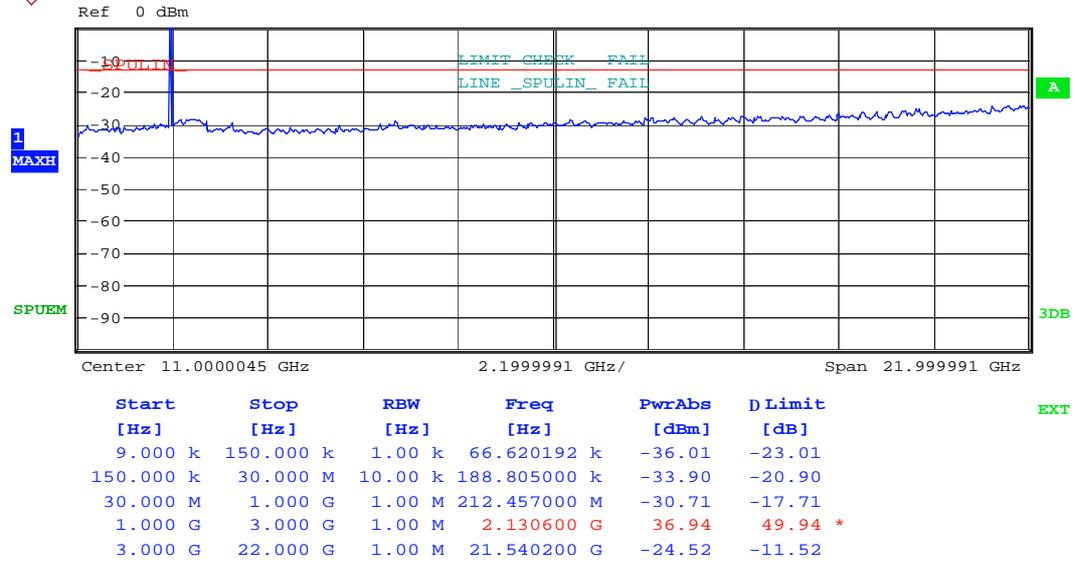
B



Date: 10.MAR.2010 15:03:56



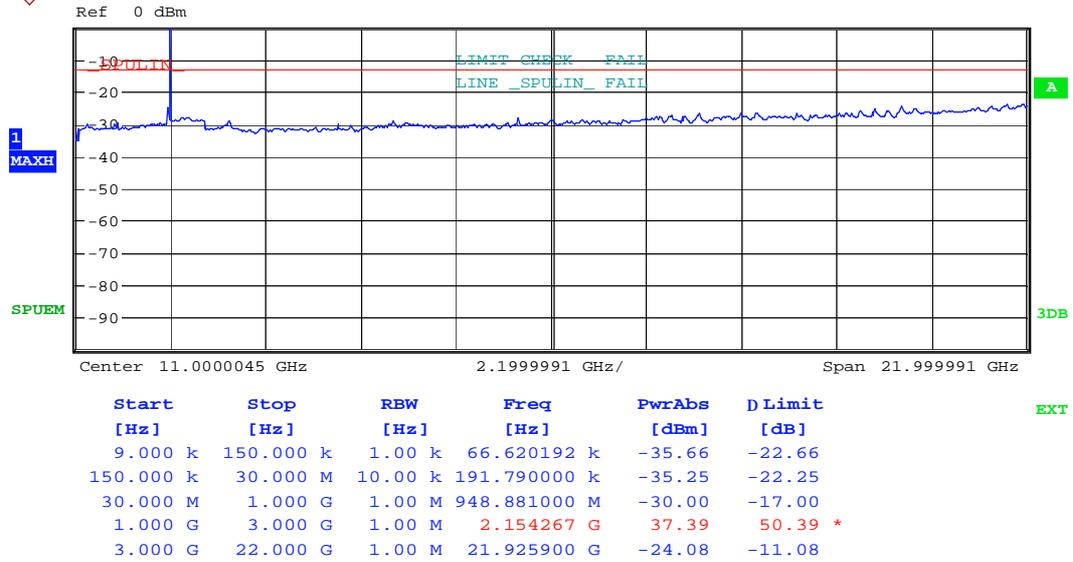
M



Date: 10.MAR.2010 15:47:52



T

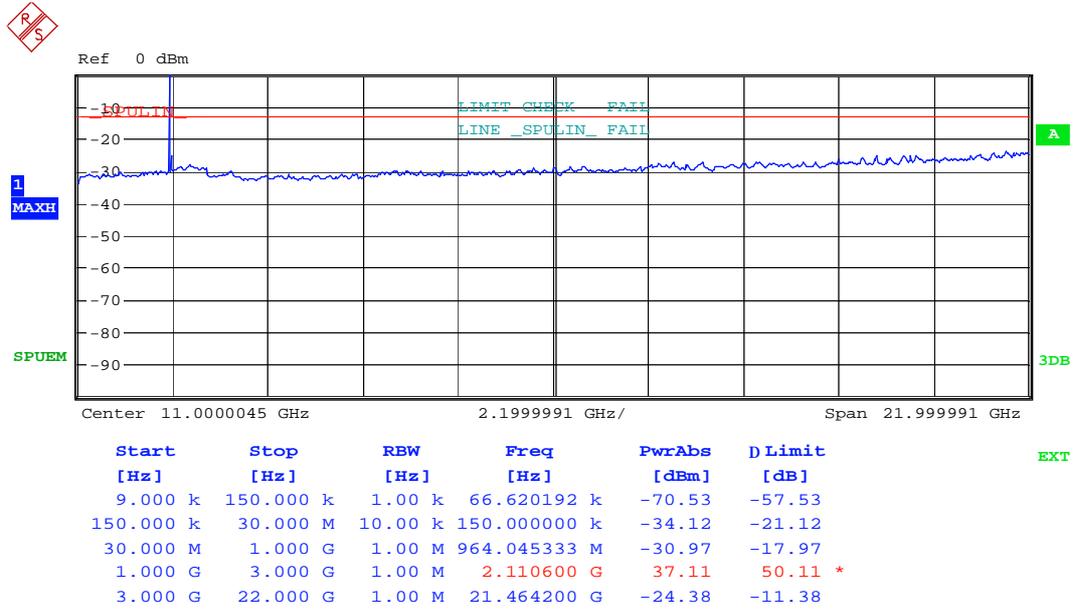


Date: 10.MAR.2010 15:56:10



(3) TM 6

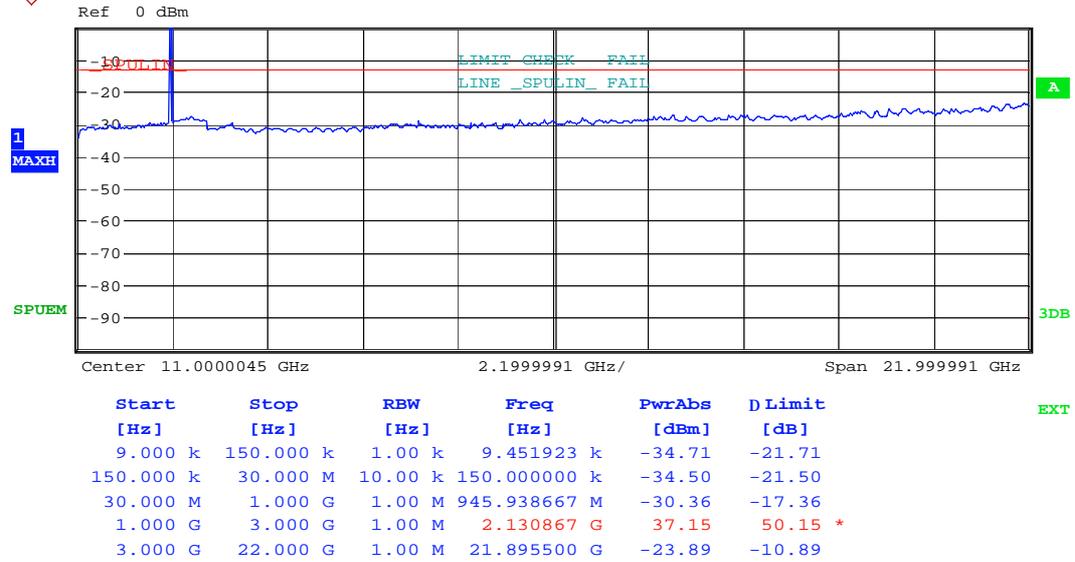
B



Date: 11.MAR.2010 11:19:22



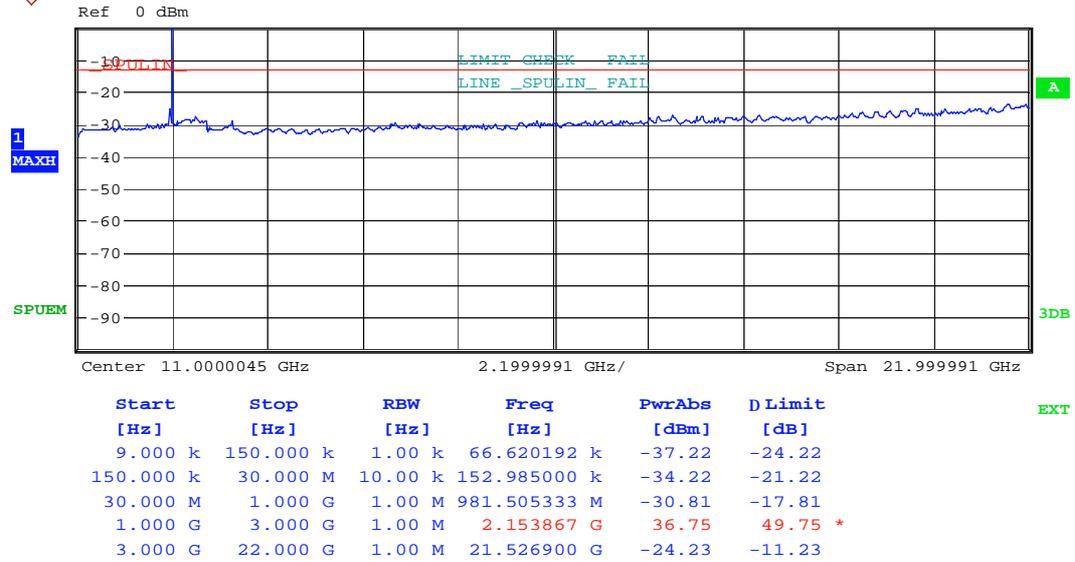
M



Date: 11.MAR.2010 11:15:48



T



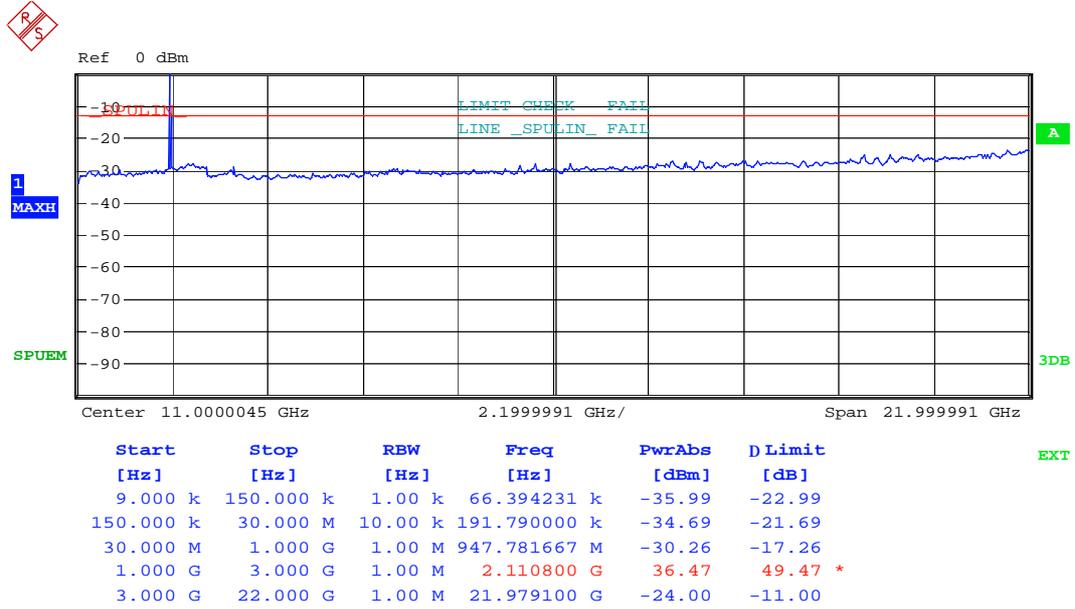
Date: 11.MAR.2010 11:11:27



2. Multiple Carriers = 4

(1) TM 1

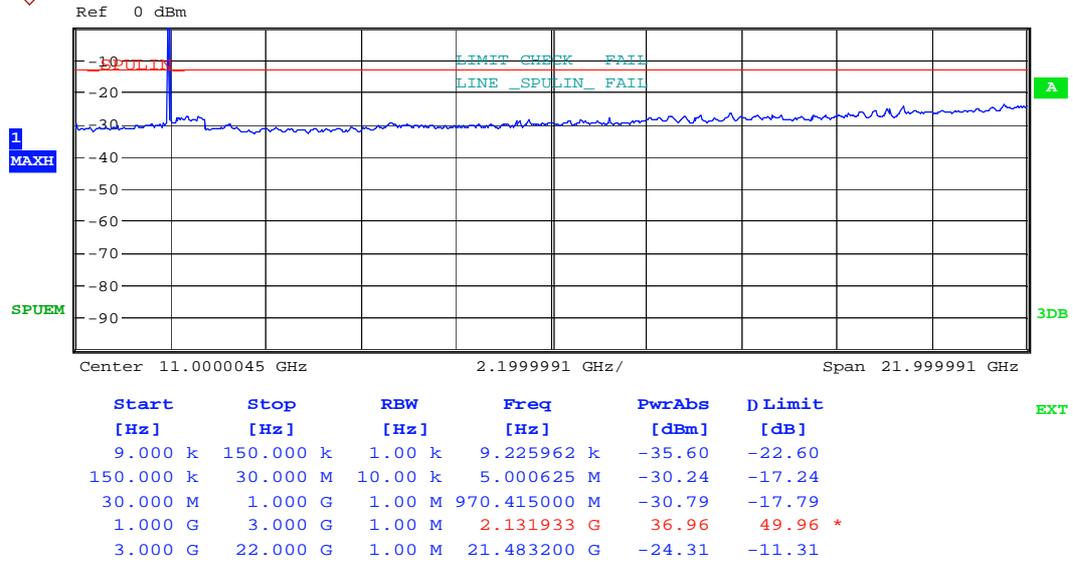
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Date: 10.MAR.2010 18:37:19



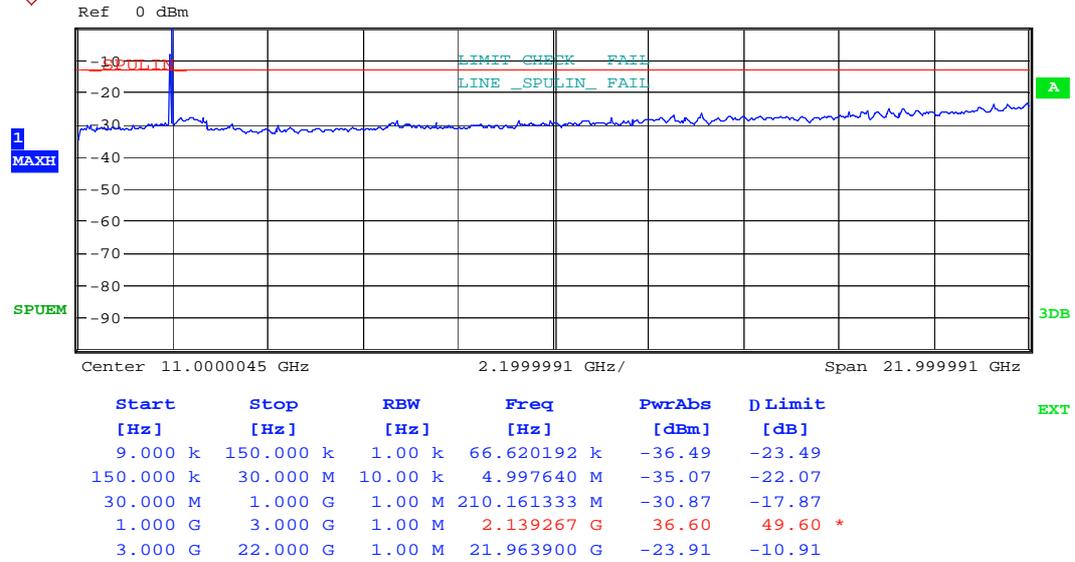
M



Date: 10.MAR.2010 19:01:35



T

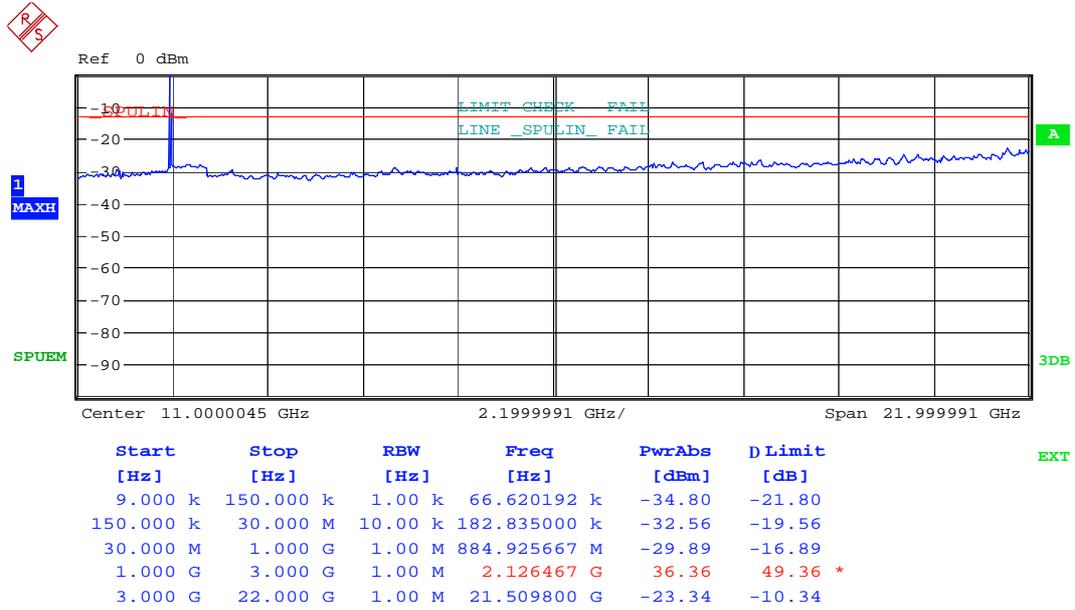


Date: 10.MAR.2010 19:19:26



(2) TM 5

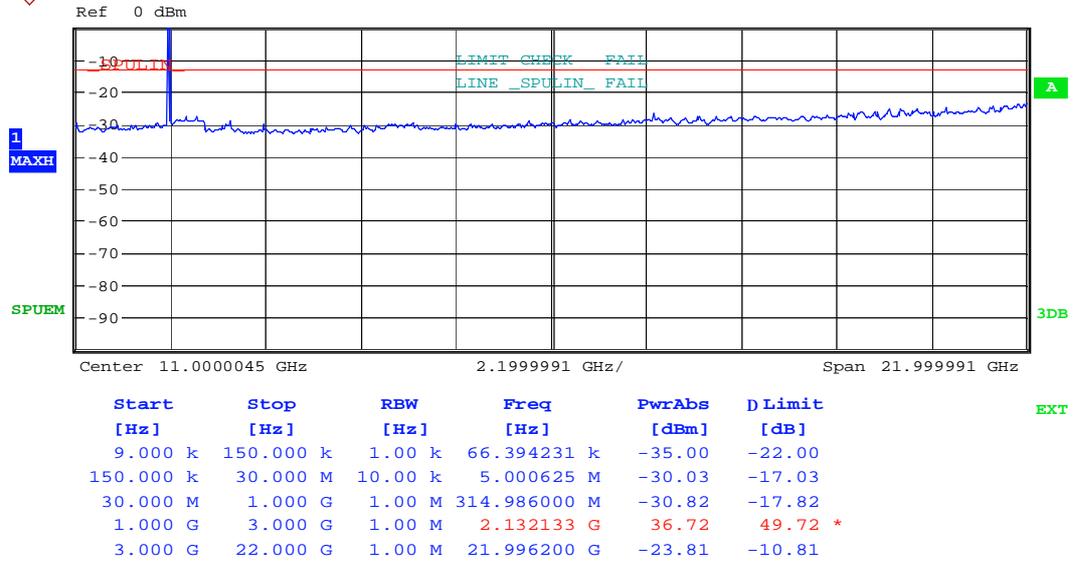
B



Date: 10.MAR.2010 18:46:37



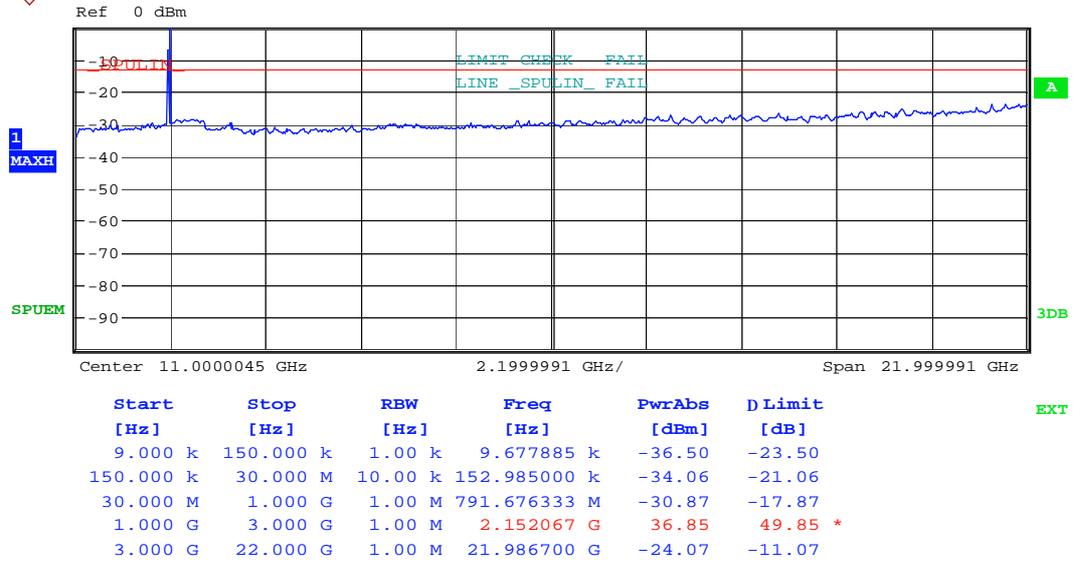
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Date: 10.MAR.2010 18:57:15



T

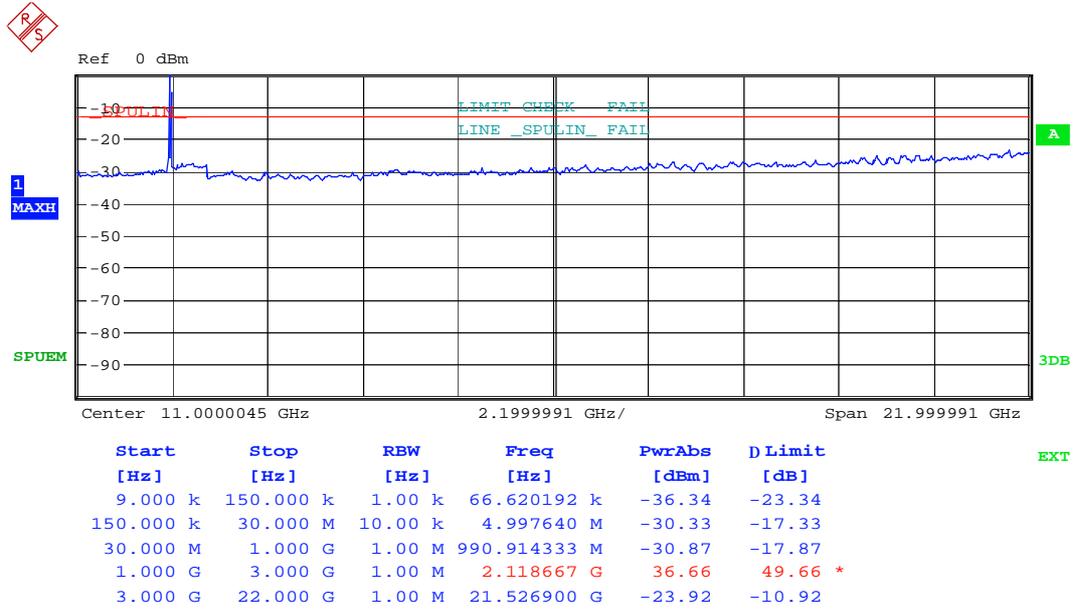


Date: 10.MAR.2010 19:26:27



(3) TM 6

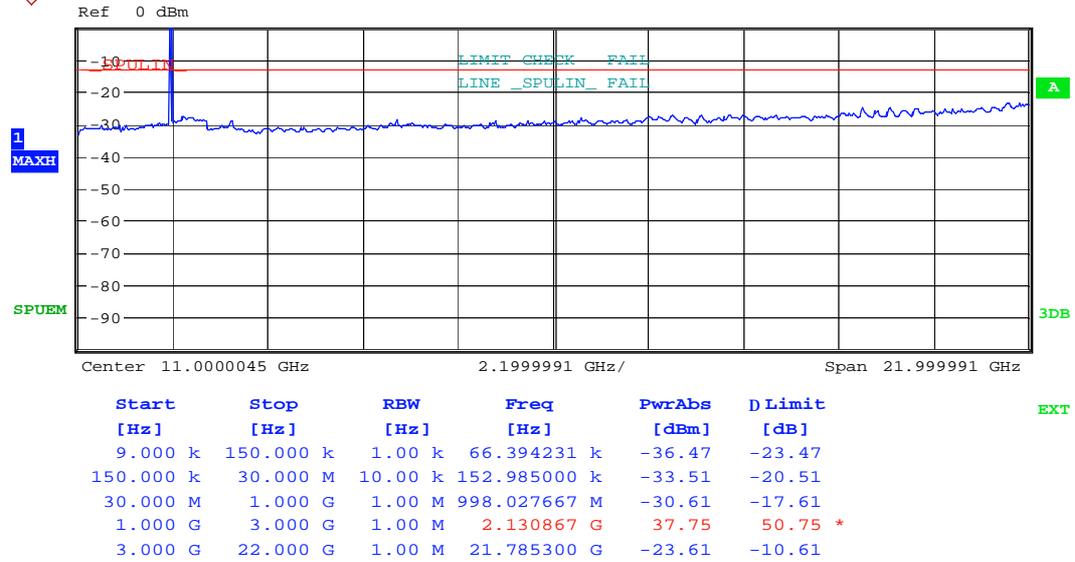
B



Date: 11.MAR.2010 12:01:02



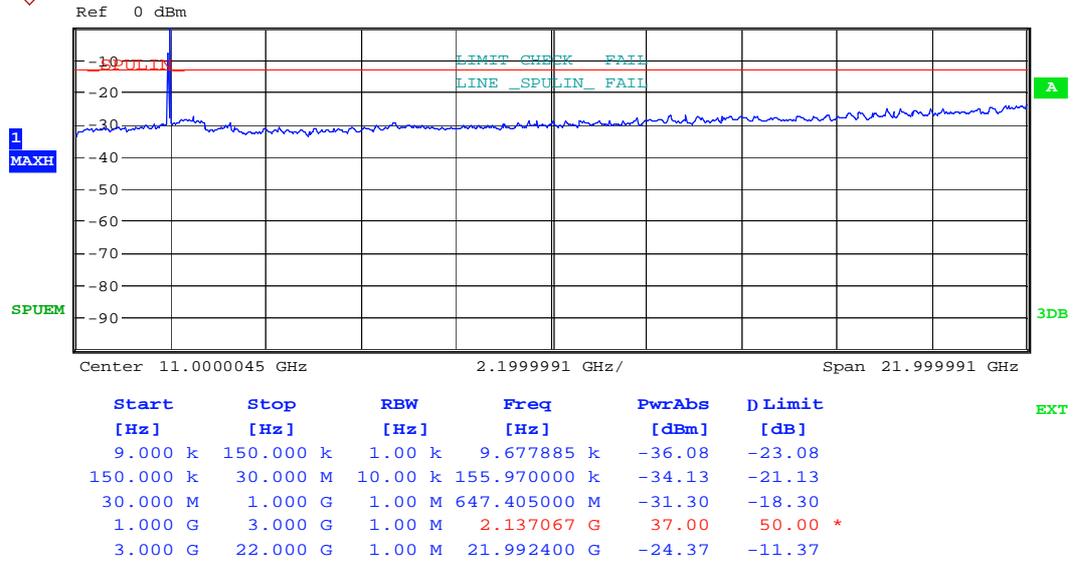
M



Date: 11.MAR.2010 12:07:14



T



Date: 11.MAR.2010 12:14:12



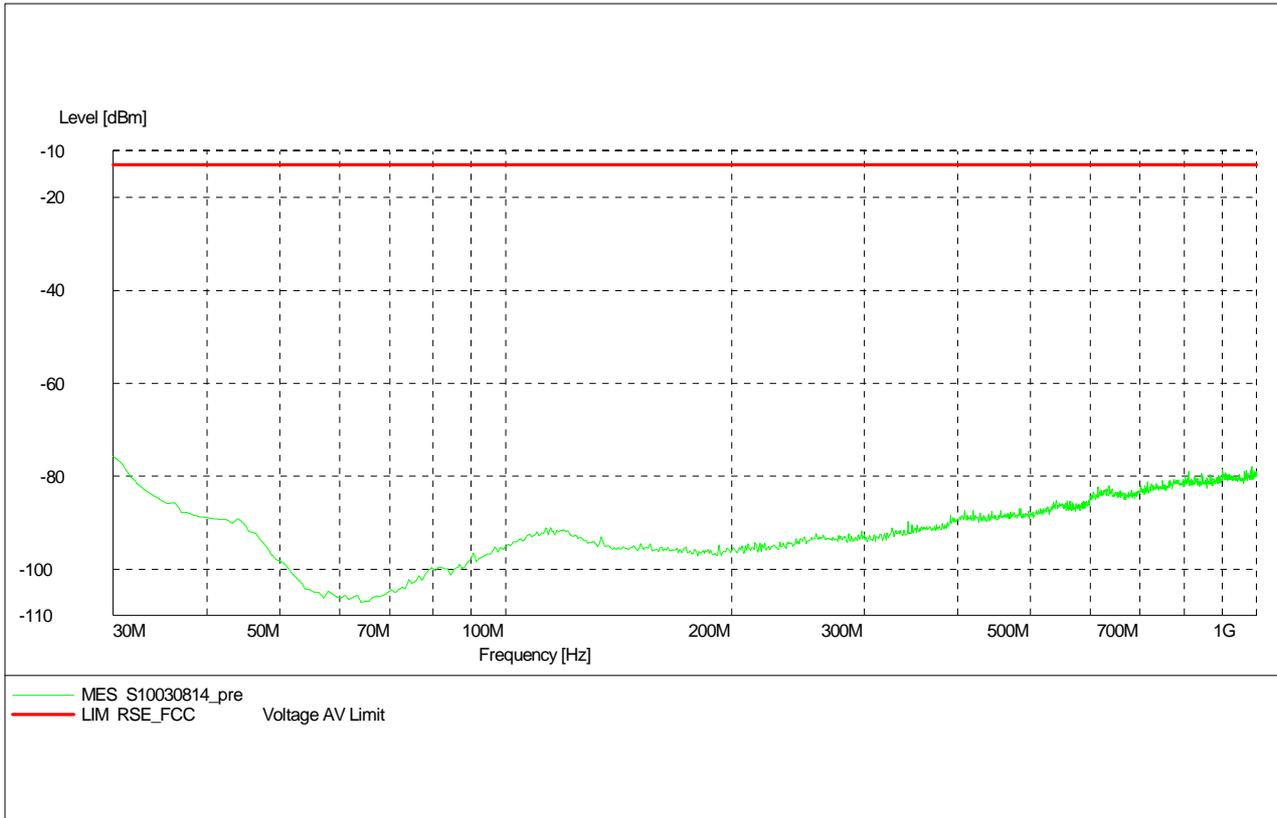
Appendix F

Field Strength of Spurious Radiation Measurement

According to FCC part 2.1053 and part 27.53(g)
According to IC RSS-Gen clause 4.9, RSS-139 clause 6.5

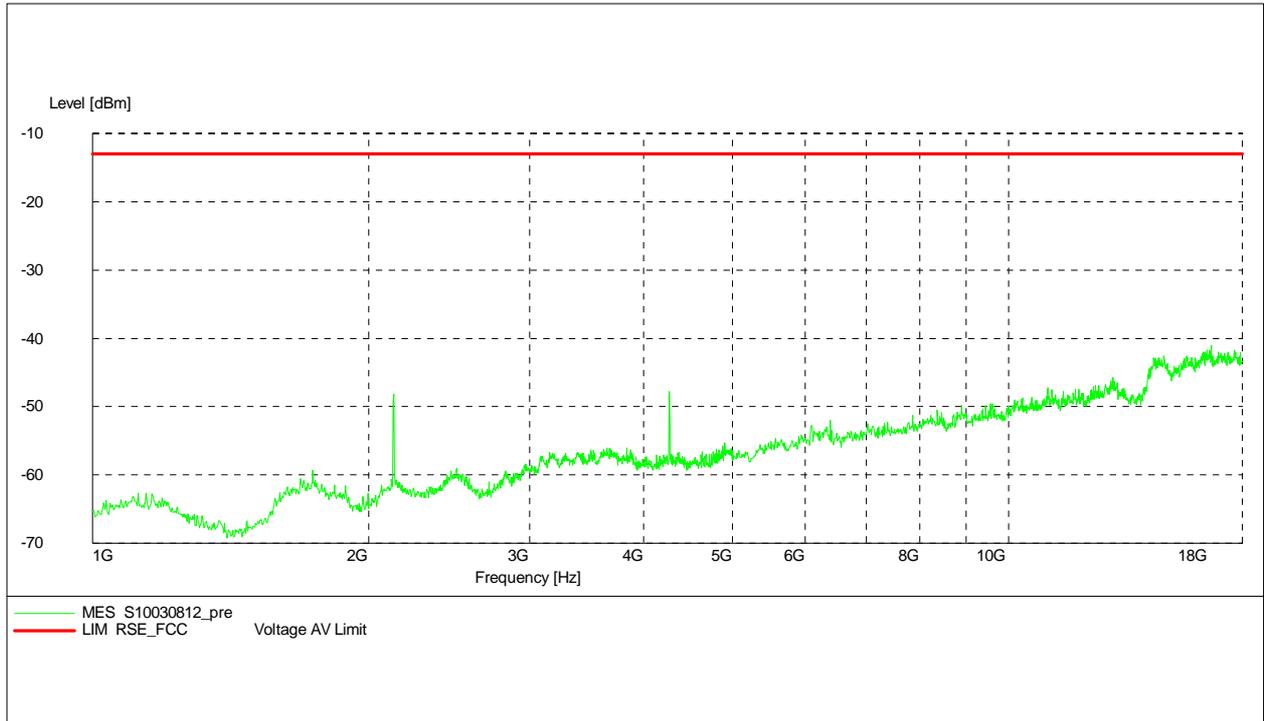


30M-1G:



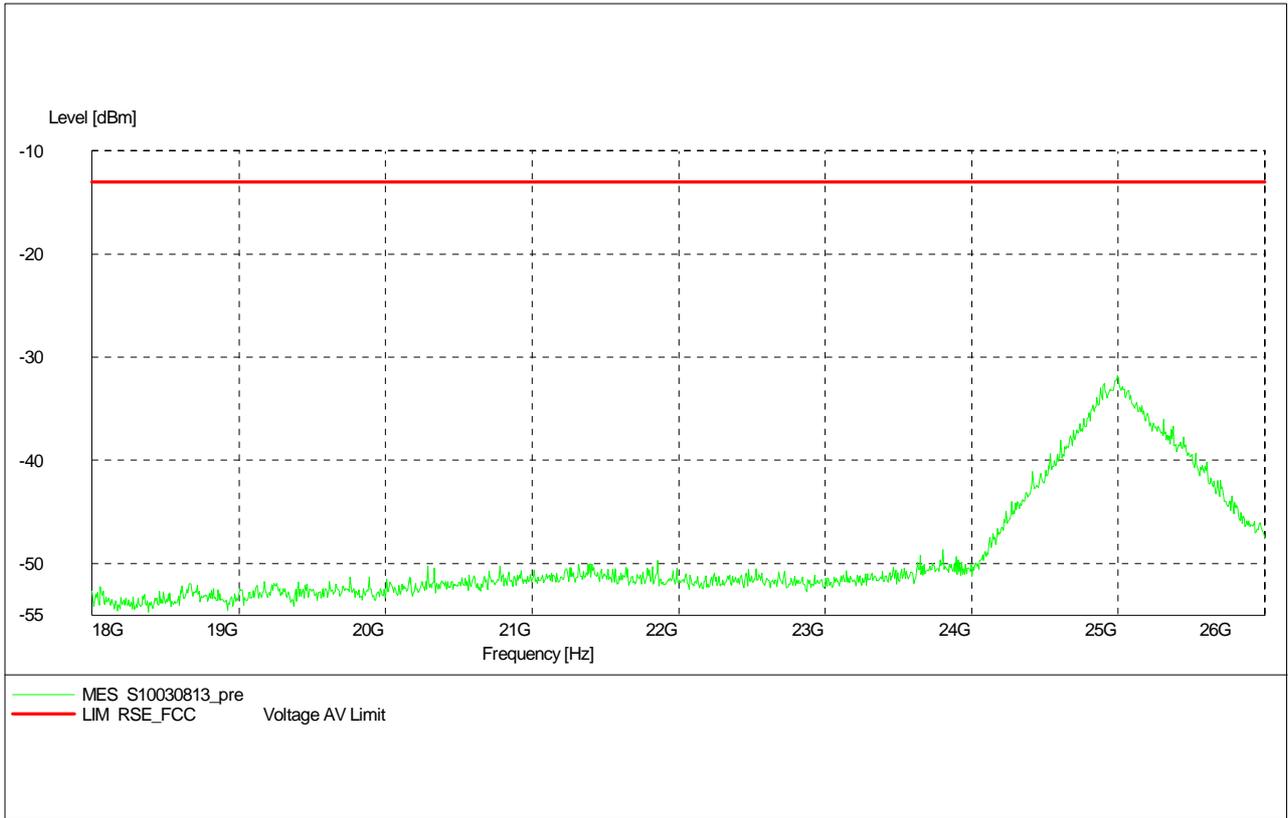


1G-18G:





18G-26G:





Appendix G

Receiver Spurious Emission (Conducted) Measurement

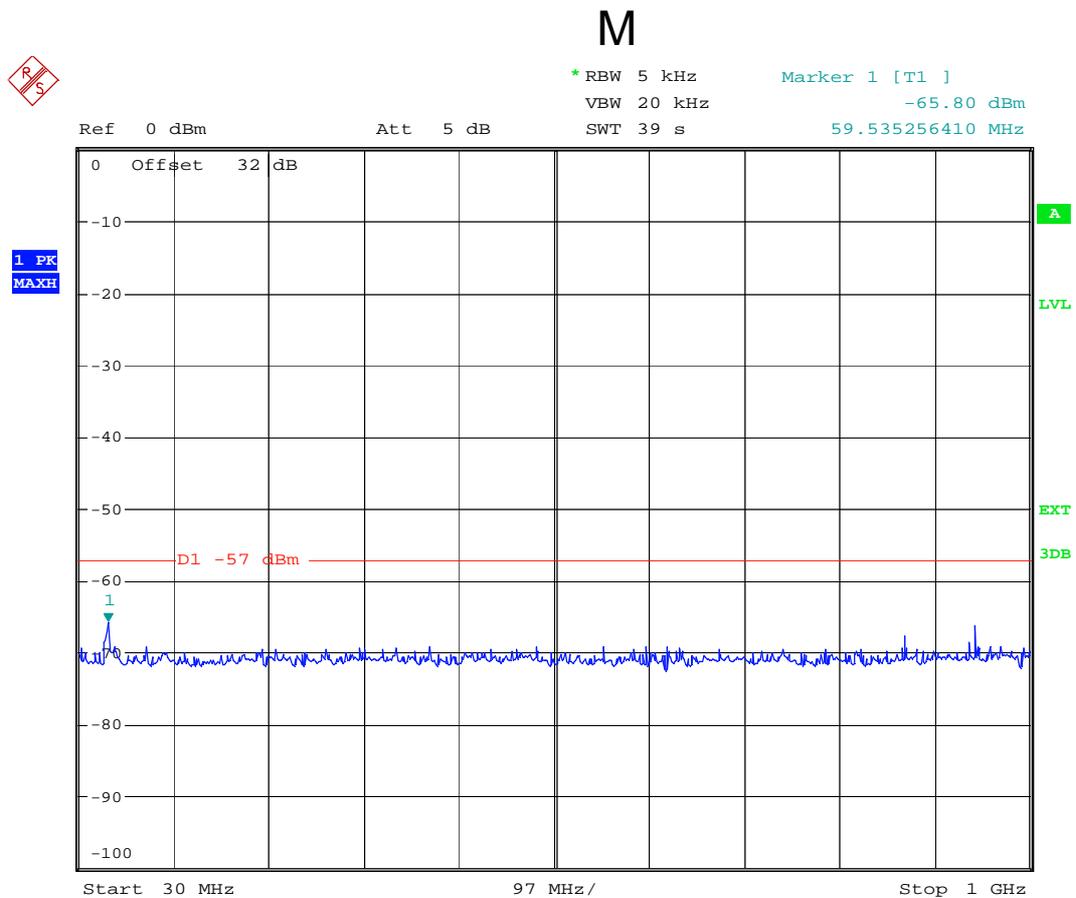
According to IC RSS-Gen clause 4.10 and clause 6, RSS-139 clause 6.6



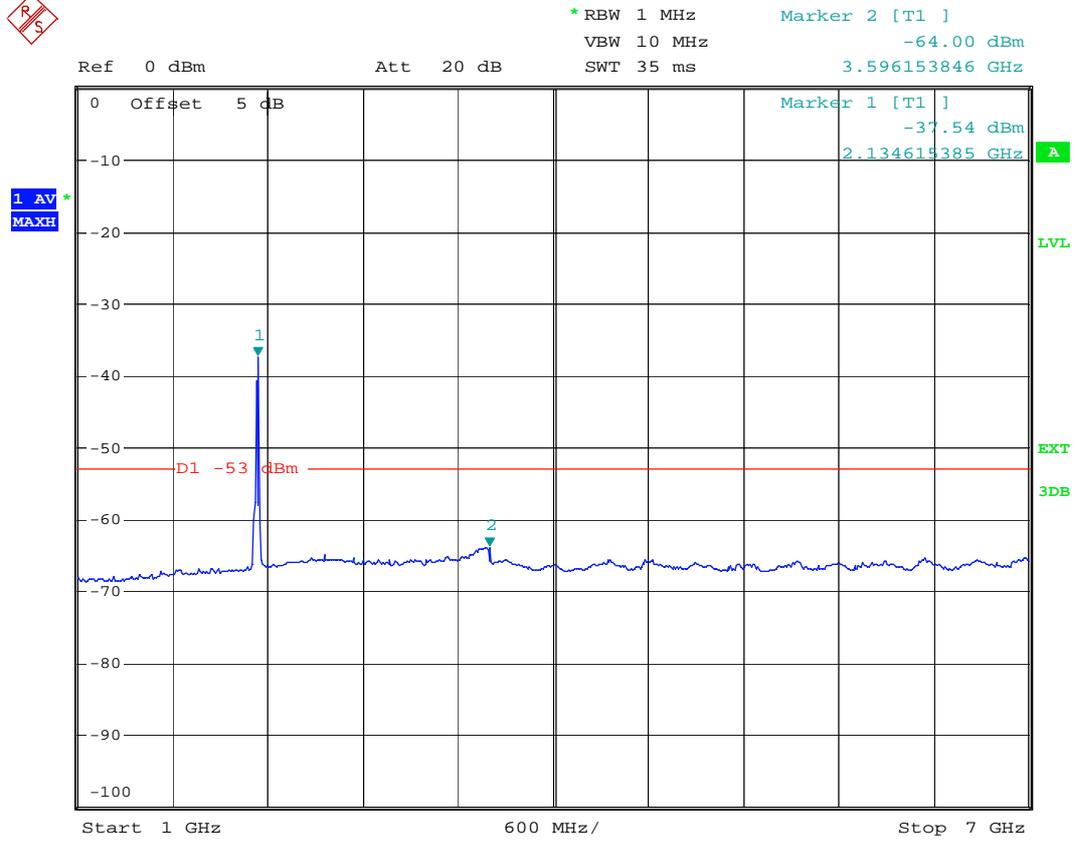
Note: Due to the using of common TX and RX ports, the spikes in following plots that exceed the limit are the TX carrier which should be ignored.

1. Multiple Carriers = 1

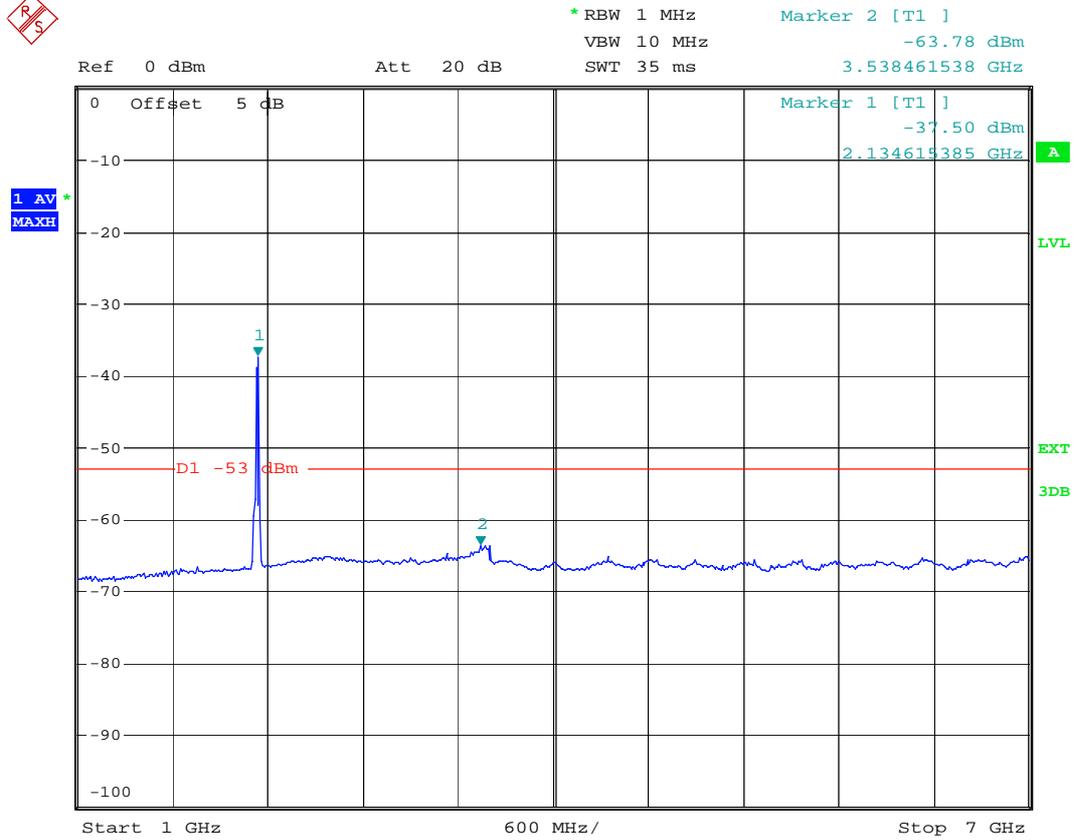
(1) TM 1



Date: 11.MAR.2010 10:05:12



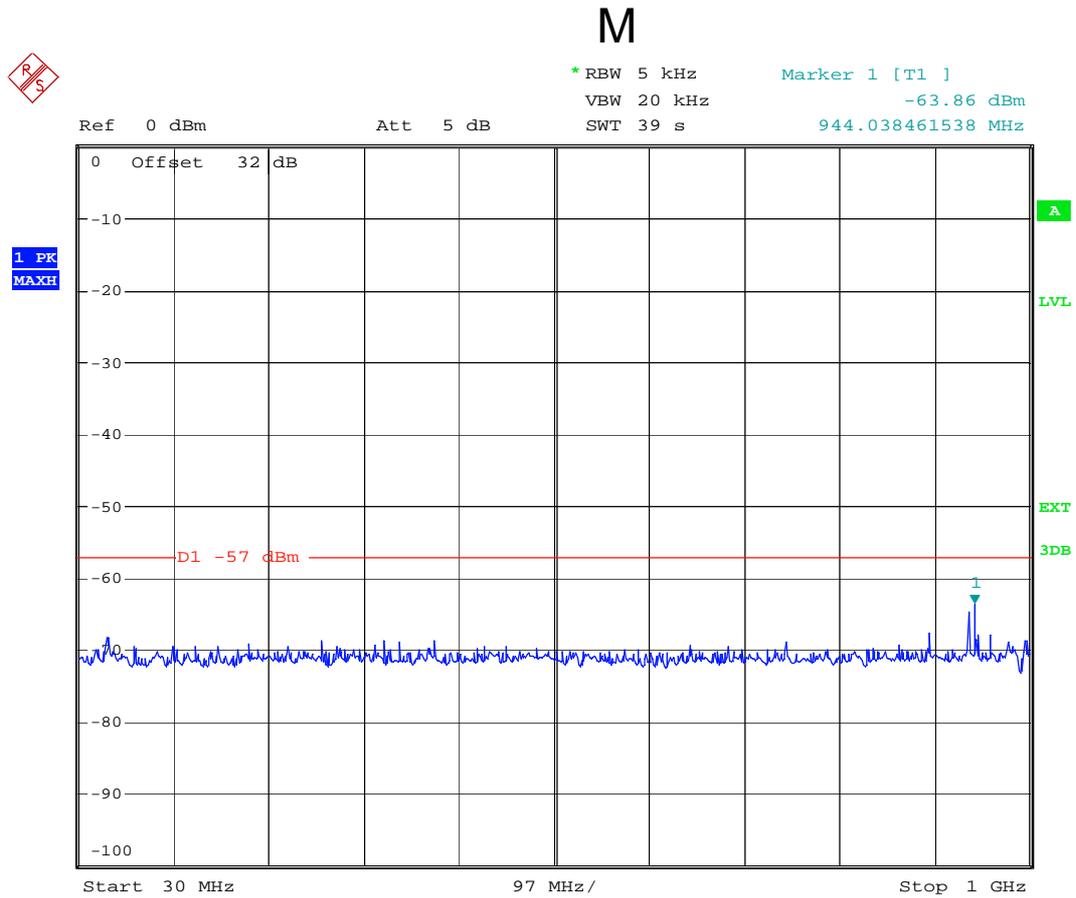
Date: 11.MAR.2010 10:20:41



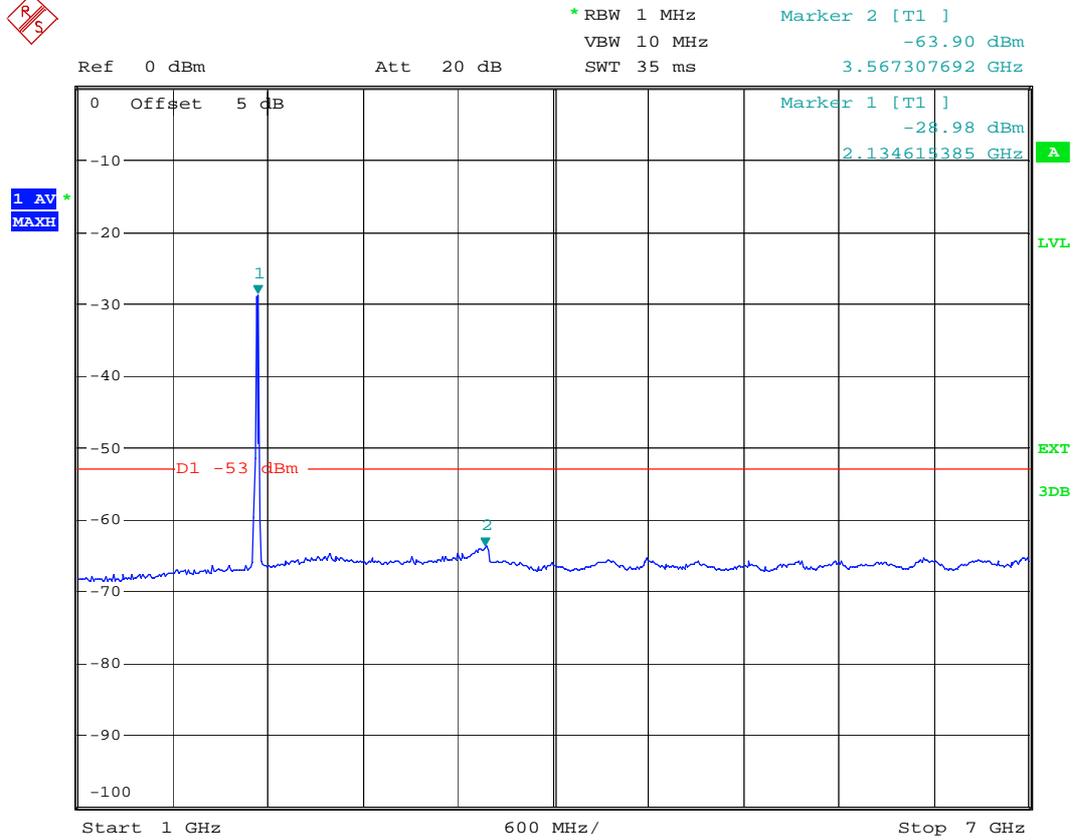
Date: 11.MAR.2010 10:19:16



(3) TM 6



Date: 11.MAR.2010 12:24:04



Date: 11.MAR.2010 12:27:42

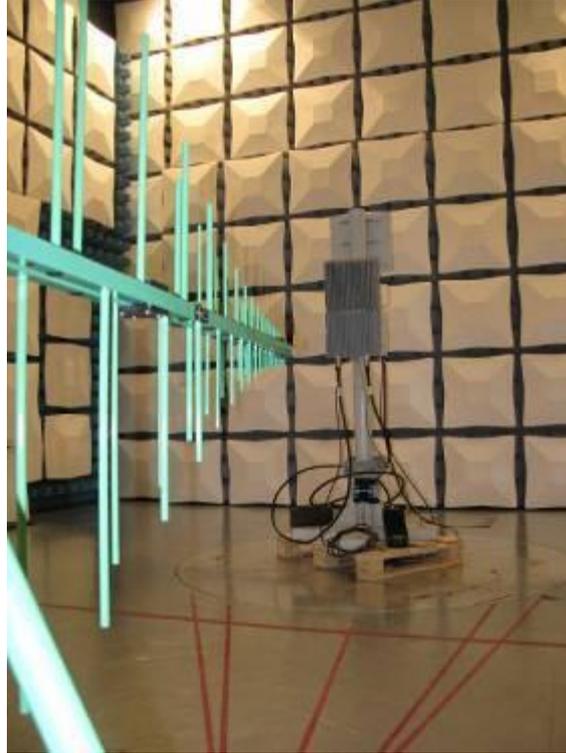


Appendix H

Photos of Test Setup

1. Photos for Radiated Spurious Emissions:

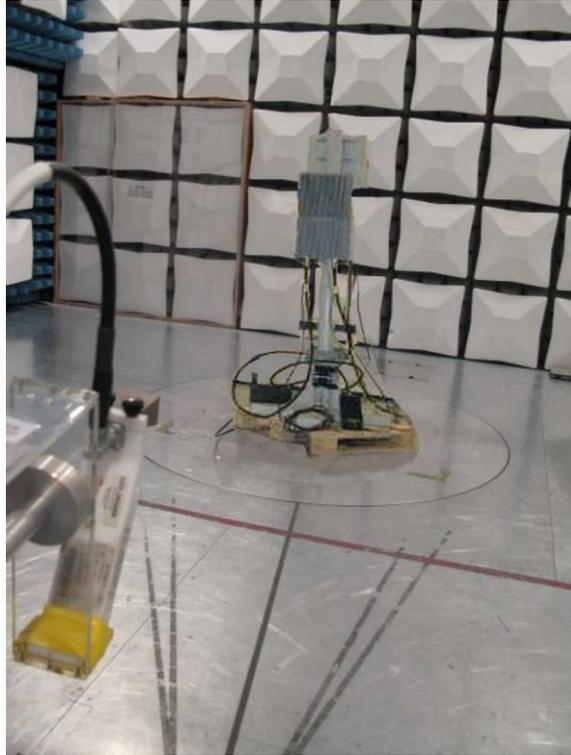
(1) 30M-1G



(2) 1G-18G



(3) 18G-26G



END