



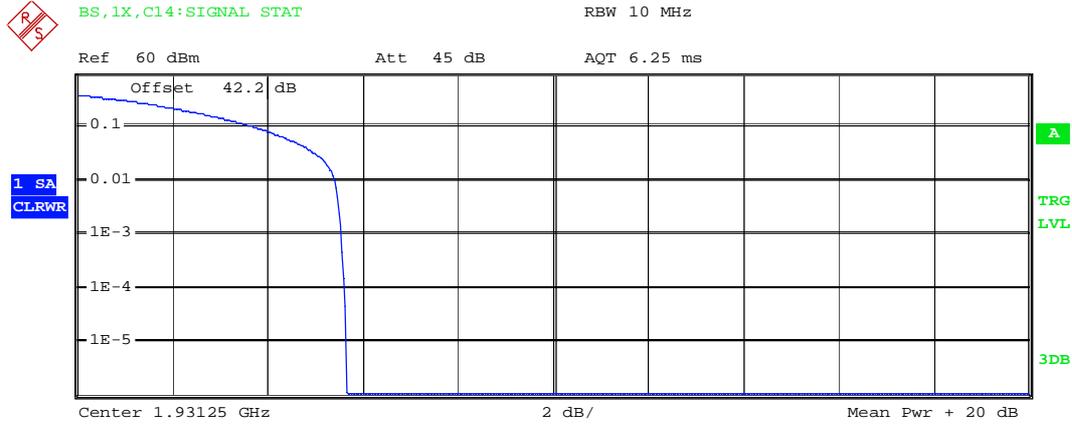
Appendix A

Peak-to-Average Ratio Measurement According to FCC part 2.1046 and part 24.232



(1) 1X

B channel



Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1

Mean	42.74 dBm
Peak	48.38 dBm
Crest	5.65 dB
10 %	3.72 dB
1 %	5.42 dB
.1 %	5.54 dB
.01 %	5.61 dB

Date: 8.MAR.2010 11:05:51



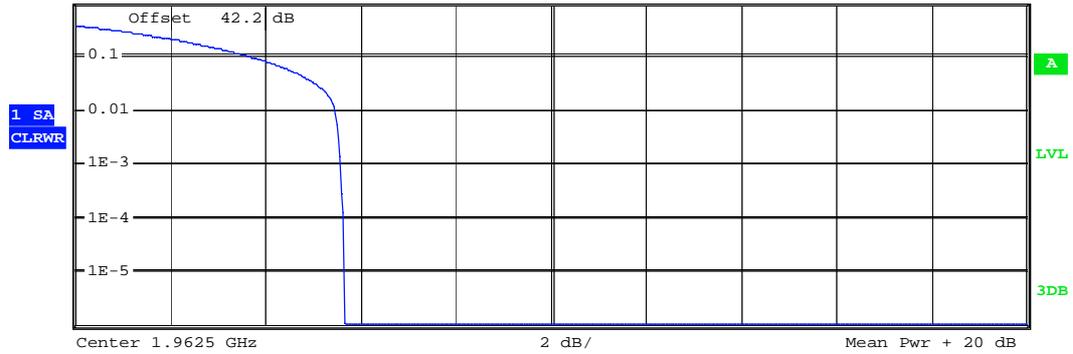
M channel



BS,1X,C14: SIGNAL STAT

RBW 10 MHz

Ref 60 dBm Att 45 dB AQT 6.25 ms



Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

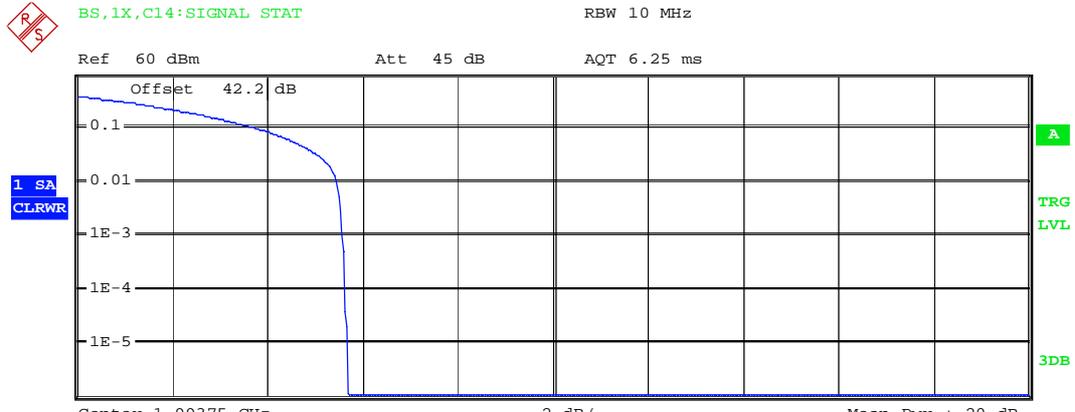
EXT

Trace 1	
Mean	42.76 dBm
Peak	48.41 dBm
Crest	5.66 dB
10 %	3.72 dB
1 %	5.48 dB
.1 %	5.58 dB
.01 %	5.64 dB

Date: 8.MAR.2010 14:25:01



T channel



Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz EXT

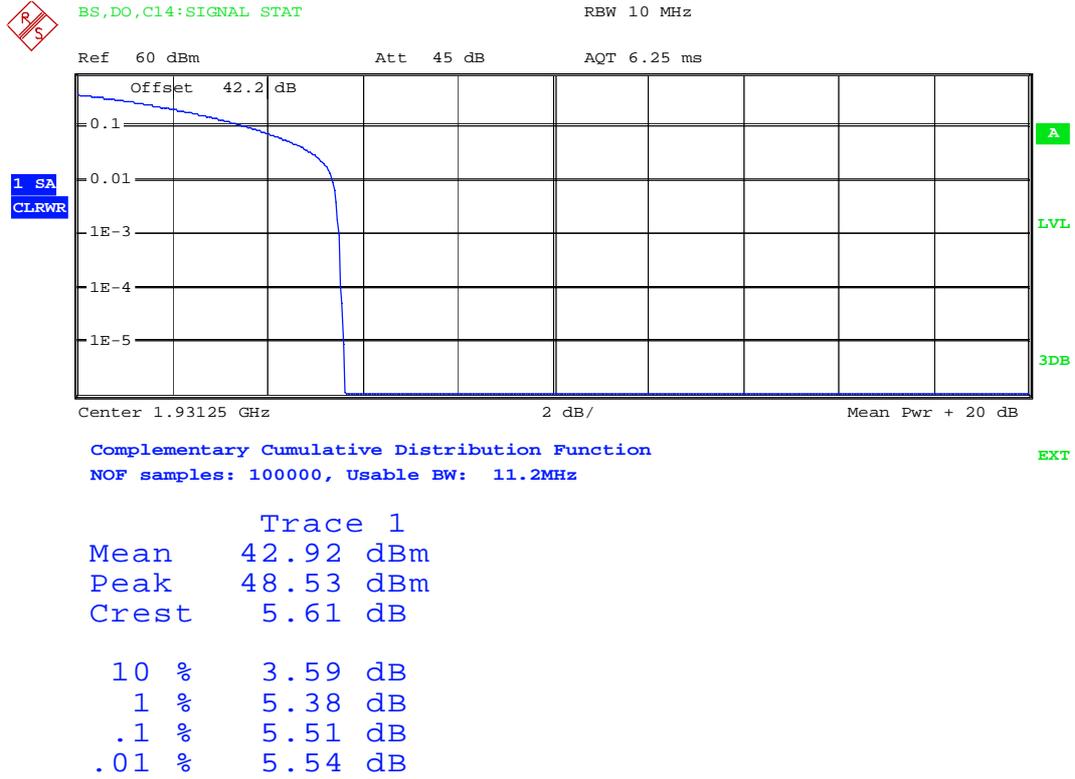
Trace 1	
Mean	42.66 dBm
Peak	48.36 dBm
Crest	5.70 dB
10 %	3.75 dB
1 %	5.45 dB
.1 %	5.58 dB
.01 %	5.64 dB

Date: 8.MAR.2010 14:50:12



(2) EVDO

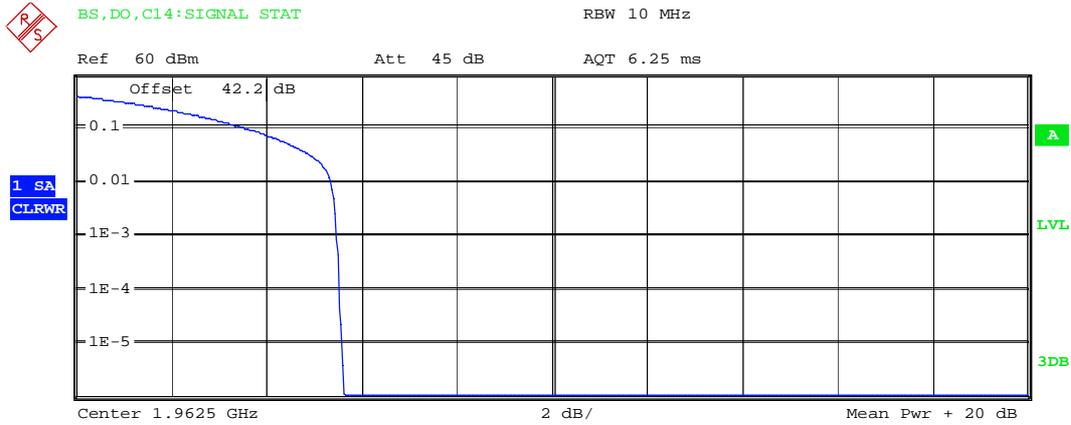
B channel



Date: 8.MAR.2010 18:35:19



M channel



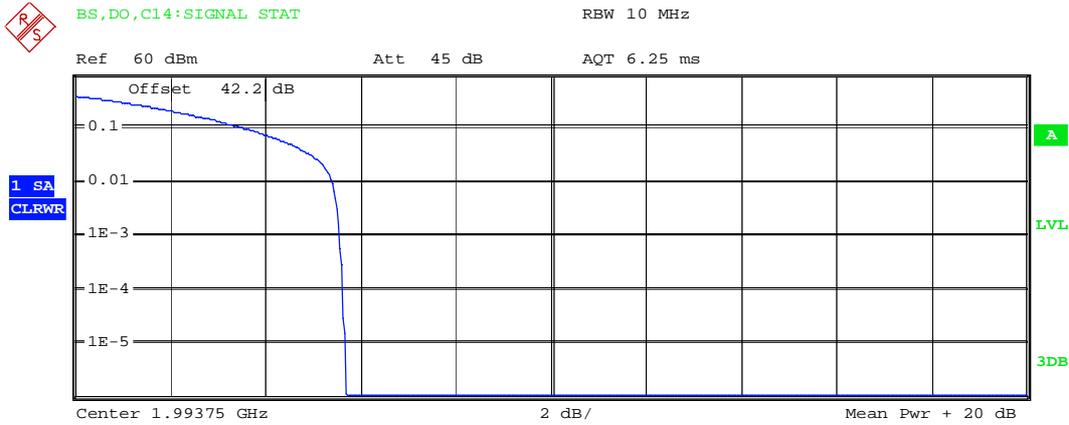
Complementary Cumulation Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	42.81 dBm
Peak	48.41 dBm
Crest	5.61 dB
10 %	3.56 dB
1 %	5.35 dB
.1 %	5.48 dB
.01 %	5.54 dB

Date: 8.MAR.2010 18:52:44



T channel



Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz EXT

Trace 1	
Mean	42.80 dBm
Peak	48.50 dBm
Crest	5.70 dB
10 %	3.56 dB
1 %	5.38 dB
.1 %	5.58 dB
.01 %	5.64 dB

Date: 8.MAR.2010 19:02:49



Appendix B

Modulation Characteristic Measurement

According to FCC part 2.1047 and part 24 subpart E



(1)RC1

B channel



BS,1X,C14:CODE POWER

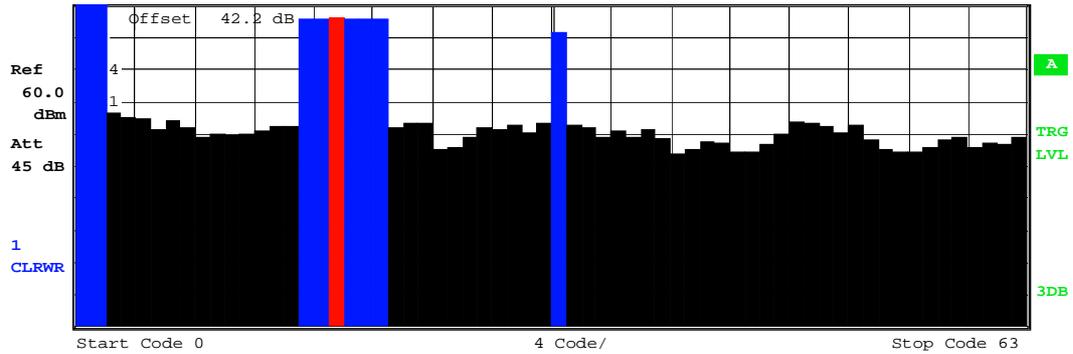
SR 19.2 ksps

Chan 17.64

dB PICH

CF 1.93125 GHz

PCG 0



RESULT SUMMARY TABLE

SR 19.2 ksps

Chan 17.64

Offset 42.2 dB

CF 1.93125 GHz

PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	42.83 dBm	Carr Freq Error	3.87 Hz
Pilot PWR	35.80 dBm	Carr Freq Error	0.00 ppm
RHO	0.97935	Chip Rate Error	0.10 ppm
Composite EVM	14.52 %	Trg to Frame	-770.448139 ns
Pk CDE (SF 64)	-30.68 dB	Active Channels	9
IQ Imbal/Offset	0.27/0.12 %		
CHANNEL RESULTS:		Modulation BPSK	
Symbol Rate	19.2 ksps	Timing Offset	-. - ns
Channel.SF	17.64	Phase Offset	-. - mrad
Channel Power Rel	-3.25 dB	Channel Power Abs	32.55 dBm
Symbol EVM	7.24 % rms	Symbol EVM	16.29 % Pk

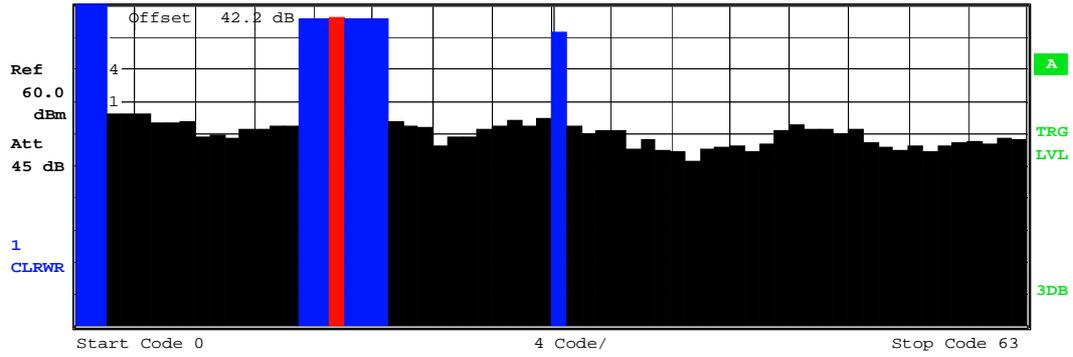
Date: 29.MAR.2010 11:50:36



M channel



BS,1X,C14:CODE POWER SR 19.2 ksps
 Chan 17.64
 dB PICH CF 1.9625 GHz PCG 0



RESULT SUMMARY TABLE SR 19.2 ksps
 Chan 17.64
 Offset 42.2 dB CF 1.9625 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:		
Ref	Total PWR	42.72 dBm	Carr Freq Error	-2.39 Hz
60.0 dBm	Pilot PWR	35.68 dBm	Carr Freq Error	-0.00 ppm
	RHO	0.97986	Chip Rate Error	-0.07 ppm
Att	Composite EVM	14.34 %	Trg to Frame	-809.014750 ns
45 dB	Pk CDE (SF 64)	-30.97 dB	Active Channels	9
	IQ Imbal/Offset	0.91/0.17 %		
CHANNEL RESULTS:		Modulation		BPSK
1	Symbol Rate	19.2 ksps	Timing Offset	-.-- ns
CLRWR	Channel.SF	17.64	Phase Offset	-.-- mrad
	Channel Power Rel	-3.23 dB	Channel Power Abs	32.45 dBm
	Symbol EVM	8.09 % rms	Symbol EVM	12.47 % Pk

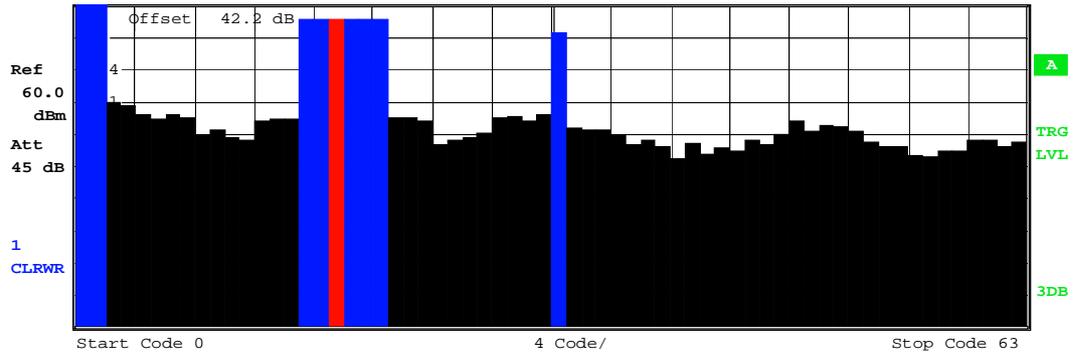
Date: 29.MAR.2010 11:59:36



T channel



BS,1X,C14:CODE POWER SR 19.2 kbps
 Chan 17.64
 dB PICH CF 1.99375 GHz PCG 0



RESULT SUMMARY TABLE

SR 19.2 kbps
 Chan 17.64
 Offset 42.2 dB CF 1.99375 GHz PCG 0

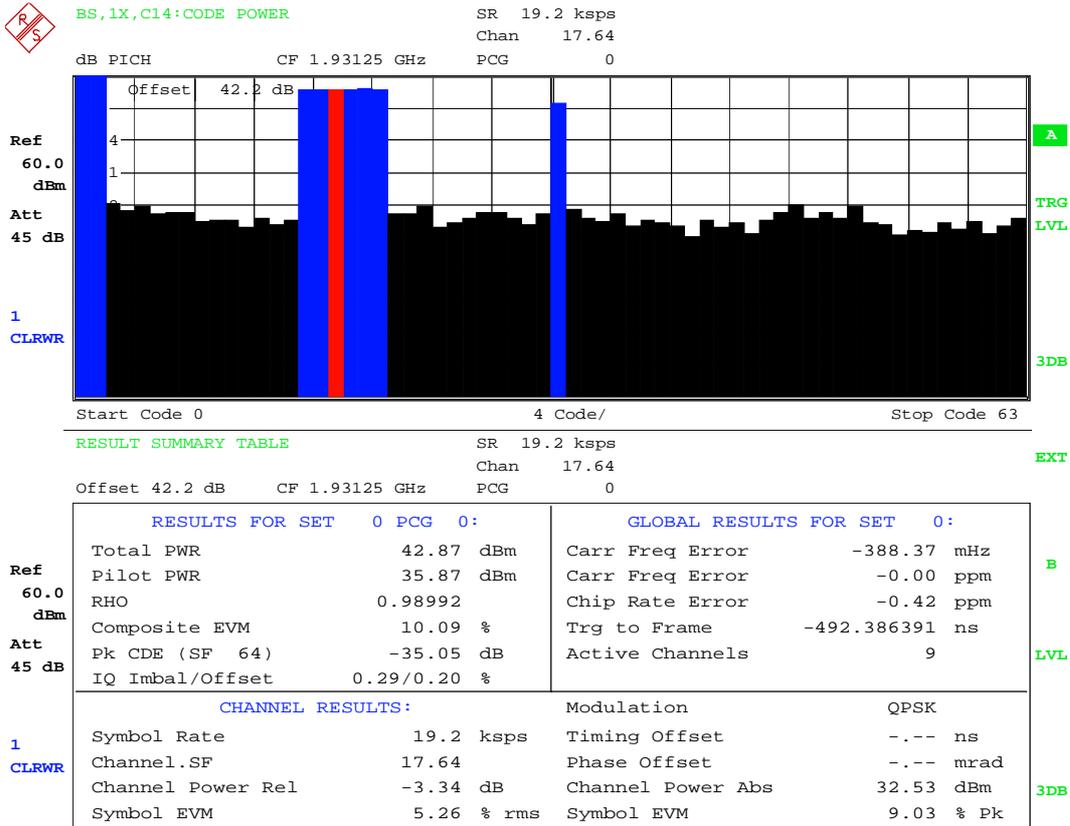
RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	42.47 dBm	Carr Freq Error	2.91 Hz
Pilot PWR	35.47 dBm	Carr Freq Error	0.00 ppm
RHO	0.97474	Chip Rate Error	-0.29 ppm
Composite EVM	16.10 %	Trg to Frame	-807.831100 ns
Pk CDE (SF 64)	-28.49 dB	Active Channels	9
IQ Imbal/Offset	0.14/0.62 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps	Modulation	BPSK
Channel.SF	17.64	Timing Offset	-.-- ns
Channel Power Rel	-3.41 dB	Phase Offset	-.-- mrad
Symbol EVM	8.83 % rms	Channel Power Abs	32.06 dBm
		Symbol EVM	13.82 % Pk

Date: 29.MAR.2010 12:07:57



(2) RC3

B channel



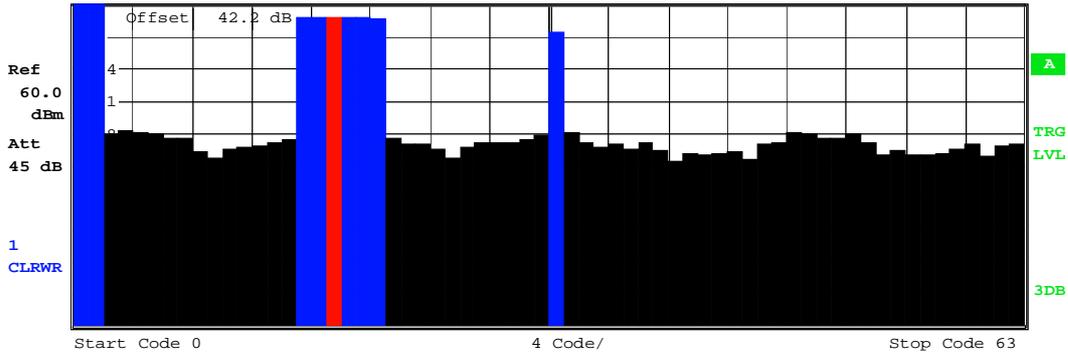
Date: 8.MAR.2010 15:02:20



M channel



BS,1X,C14:CODE POWER SR 19.2 ksps
 Chan 17.64
 dB PICH CF 1.9625 GHz PCG 0



RESULT SUMMARY TABLE SR 19.2 ksps
 Chan 17.64
 Offset 42.2 dB CF 1.9625 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref	Total PWR 42.67 dBm	Carr Freq Error -4.49 Hz	
60.0 dBm	Pilot PWR 35.62 dBm	Carr Freq Error -0.00 ppm	
	RHO 0.98864	Chip Rate Error -0.32 ppm	
Att	Composite EVM 10.72 %	Trg to Frame -529.571309 ns	
45 dB	Pk CDE (SF 64) -34.71 dB	Active Channels 9	
	IQ Imbal/Offset 0.66/0.20 %		
CHANNEL RESULTS:		Modulation QPSK	
1	Symbol Rate 19.2 ksps	Timing Offset -.- ns	
CLRWR	Channel.SF 17.64	Phase Offset -.- mrad	
	Channel Power Rel -3.20 dB	Channel Power Abs 32.42 dBm	
	Symbol EVM 5.24 % rms	Symbol EVM 9.52 % Pk	

Date: 8.MAR.2010 14:26:48



(3) EVDO

B channel

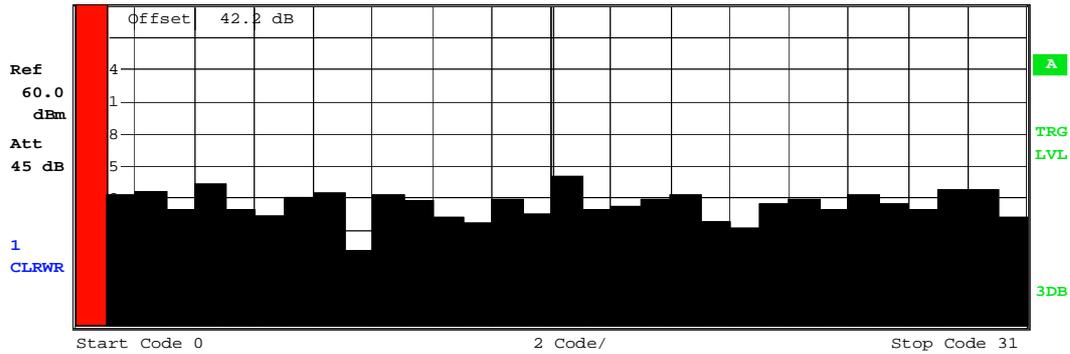


BS,DO,C14:CODE POWER

Type PILOT-I

Code 0.32

dB CF 1.93125 GHz Slot 0



Start Code 0 2 Code/ Stop Code 31

GENERAL RESULTS

Type ALL

EXT

Offset 42.2 dB CF 1.93125 GHz

Global Results for Set 0:				
Ref	Carr Freq Error	-1.63 Hz	RHO Pilot	0.99663
60.0	Carr Freq Error	-0.00 ppm	RHO ov-1/-2	0.99203/0.99220
dBm	Chip Rate Error	0.19 ppm	RHO MAC	0.99449
	Trg to Frame	-1.173980 μ s	RHO DATA	0.99100
Results for Set 0 / Slot 0:				
Att	Power PILOT	43.06 dBm	Data Modulation Type	16-QAM
45 dB	Power MAC	42.95 dBm	Act. MAC Channels	23
	Power DATA	42.86 dBm	Act. DATA Channels	16
1	Power PREAMBLE	42.97 dBm	Preamble Length	64 Chips
CLRWR	Composite EVM	8.88 %	RHO	0.99218
	Max. Pwr DATA	-14.36 dB	Max. inact. Pwr MAC	-40.32 dB
	Min. Pwr DATA	-15.65 dB		

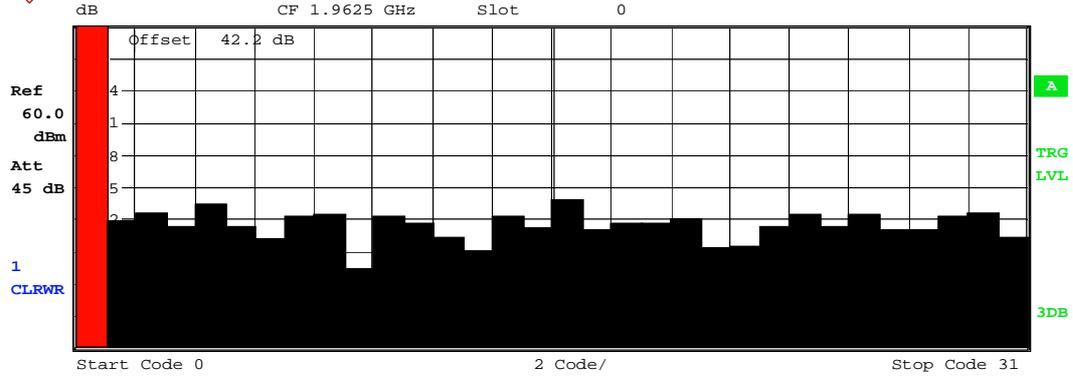
Date: 8.MAR.2010 18:36:33



M channel



BS,DO,C14:CODE POWER Type PILOT-I
 Code 0.32
 Slot 0



GENERAL RESULTS

Type ALL

EXT

Offset 42.2 dB CF 1.9625 GHz

		Global Results for Set 0:			
Ref 60.0 dBm	Carr Freq Error	-2.67 Hz	RHO Pilot	0.99646	
	Carr Freq Error	-0.00 ppm	RHO ov-1/-2	0.99180/0.99213	
	Chip Rate Error	0.09 ppm	RHO MAC	0.99579	
	Trg to Frame	-1.212224 µs	RHO DATA	0.99070	
		Results for Set 0 / Slot 0:			
Att 45 dB 1 CLRWR	Power PILOT	42.96 dBm	Data Modulation Type	16-QAM	
	Power MAC	42.61 dBm	Act. MAC Channels	26	
	Power DATA	42.71 dBm	Act. DATA Channels	16	
	Power PREAMBLE	43.03 dBm	Preamble Length	64 Chips	
	Composite EVM	9.31 %	RHO	0.99140	
	Max. Pwr DATA	-14.38 dB	Max. inact. Pwr MAC	-40.16 dB	
	Min. Pwr DATA	-15.86 dB			

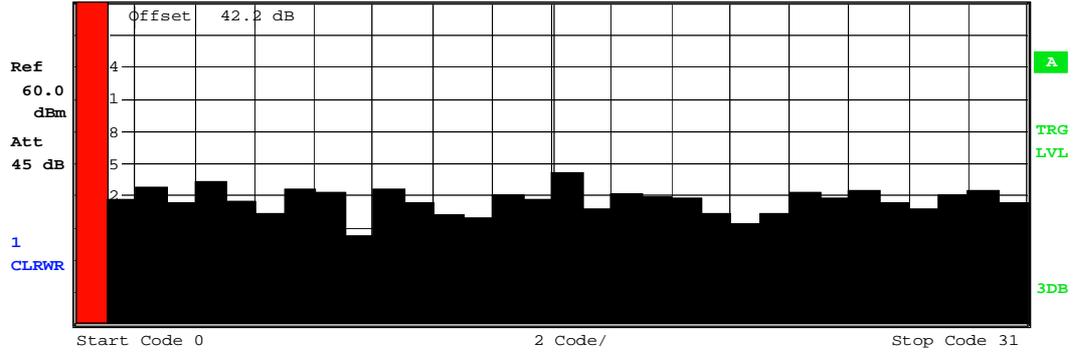
Date: 8.MAR.2010 18:51:54



T channel



BS,DO,C14:CODE POWER Type PILOT-I
 Code 0.32
 dB CF 1.99375 GHz Slot 0



GENERAL RESULTS Type ALL EXT

Offset 42.2 dB CF 1.99375 GHz

Global Results for Set 0:			
Ref	Carr Freq Error	396.91 mHz	RHO Pilot 0.99657
60.0	Carr Freq Error	0.00 ppm	RHO ov-1/-2 0.99199/0.99192
dBm	Chip Rate Error	-0.06 ppm	RHO MAC 0.99411
	Trg to Frame	-1.219691 μs	RHO DATA 0.99103
Results for Set 0 / Slot 0:			
Att	Power PILOT	42.99 dBm	Data Modulation Type 16-QAM
45 dB	Power MAC	41.24 dBm	Act. MAC Channels 62
	Power DATA	42.73 dBm	Act. DATA Channels 16
1	Power PREAMBLE	42.89 dBm	Preamble Length 64 Chips
CLRWR	Composite EVM	9.13 %	RHO 0.99174
	Max. Pwr DATA	-14.43 dB	Max. inact. Pwr MAC -40.01 dB
	Min. Pwr DATA	-16.38 dB	

Date: 8.MAR.2010 19:03:19



Appendix C

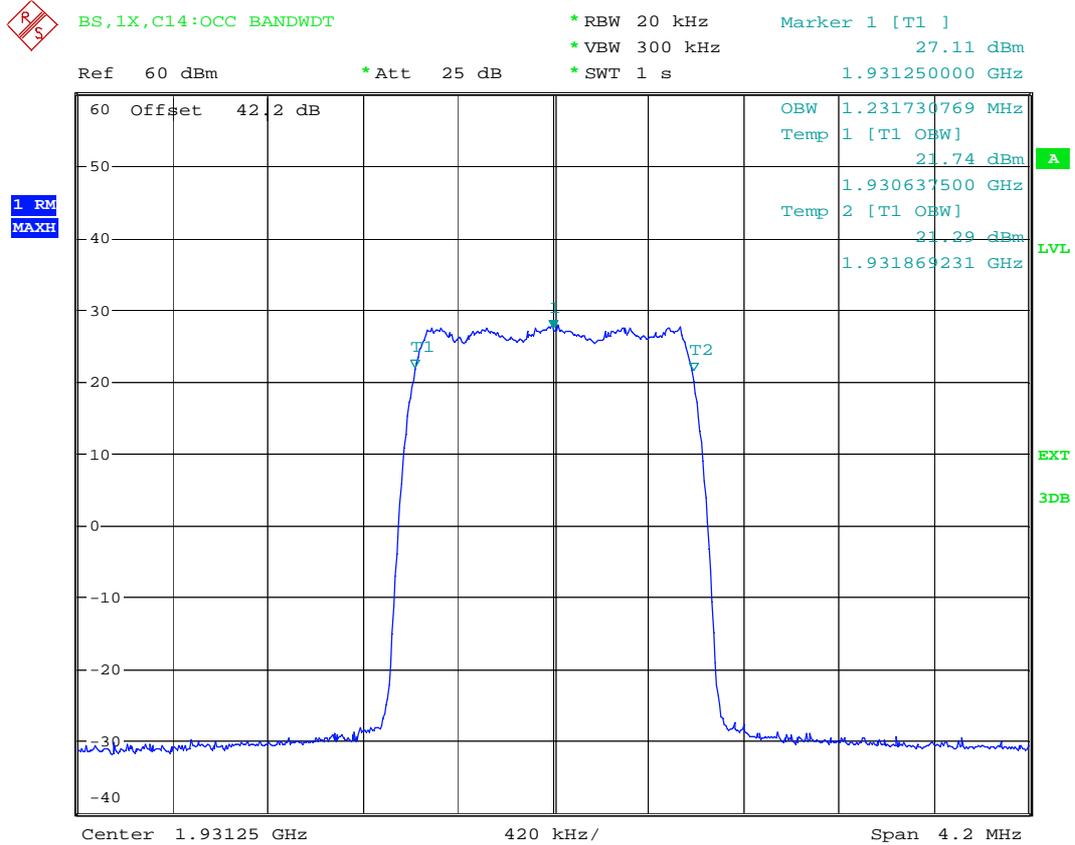
Occupied Bandwidth Measurement

According to FCC part 2.1049 and part 24 subpart E



(1) 1X

B channel



Date: 8.MAR.2010 14:42:08



M channel



BS,1X,C14:OCC BANDWDT

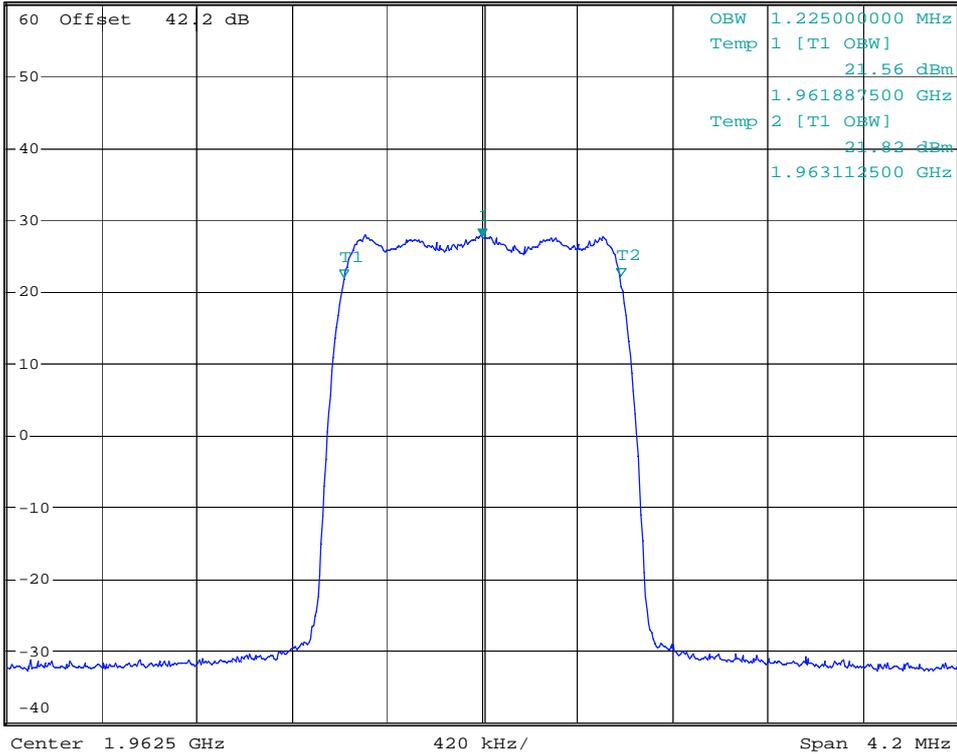
*RBW 20 kHz
 *VBW 300 kHz
 *SWT 1 s

Marker 1 [T1]
 27.35 dBm
 1.962500000 GHz

Ref 60 dBm

*Att 25 dB

1 RM
 MAXH



Date: 8.MAR.2010 14:36:47



T channel



BS,1X,C14:OCC BANDWDT

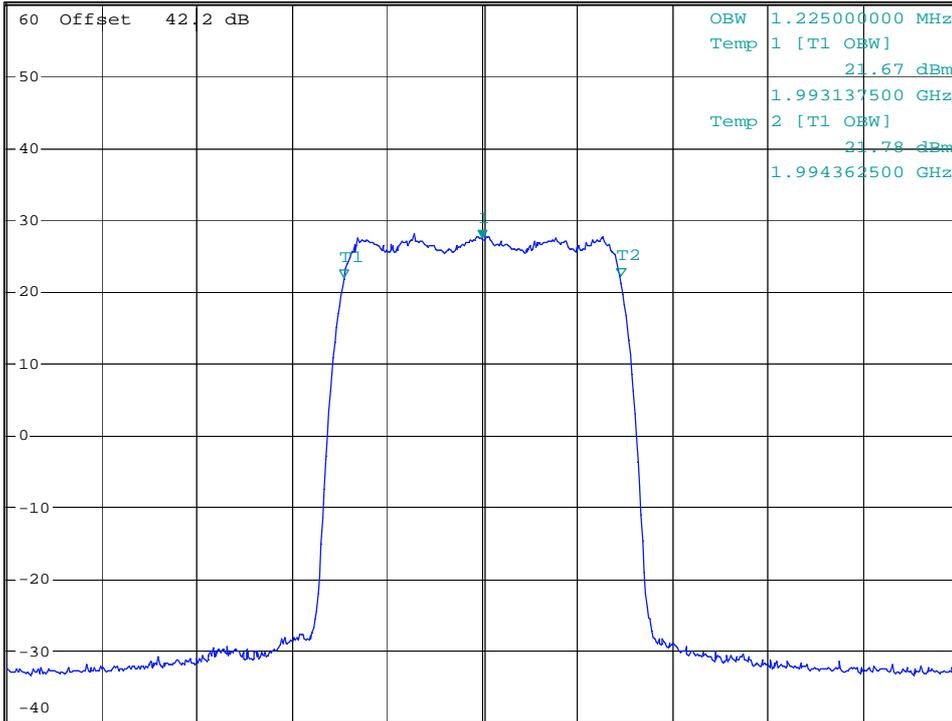
*RBW 20 kHz
 *VBW 300 kHz
 *SWT 1 s

Marker 1 [T1]
 27.10 dBm
 1.993750000 GHz

Ref 60 dBm

*Att 25 dB

1 RM
 MAXH



Date: 8.MAR.2010 14:48:07



M channel



BS,DO,C14:OCC BANDWDT

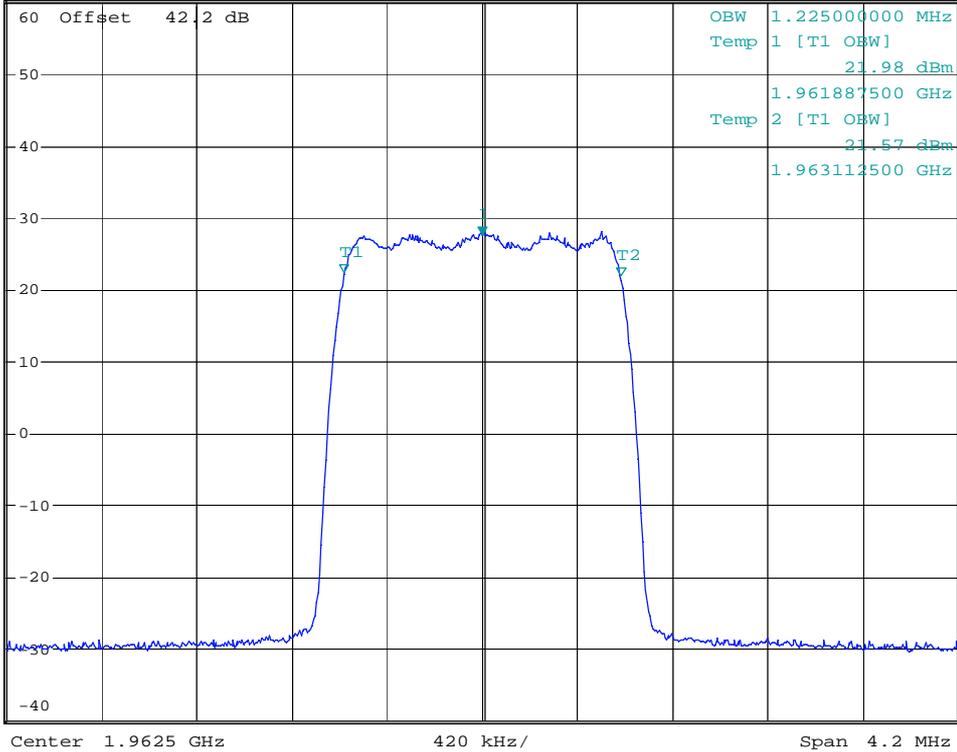
* RBW 20 kHz
 * VBW 300 kHz
 * SWT 1 s

Marker 1 [T1]
 27.28 dBm
 1.962500000 GHz

Ref 60 dBm

Att 25 dB

1 RM
 MAXH



Date: 8.MAR.2010 18:57:03



T channel



BS,DO,C14:OCC BANDWDT

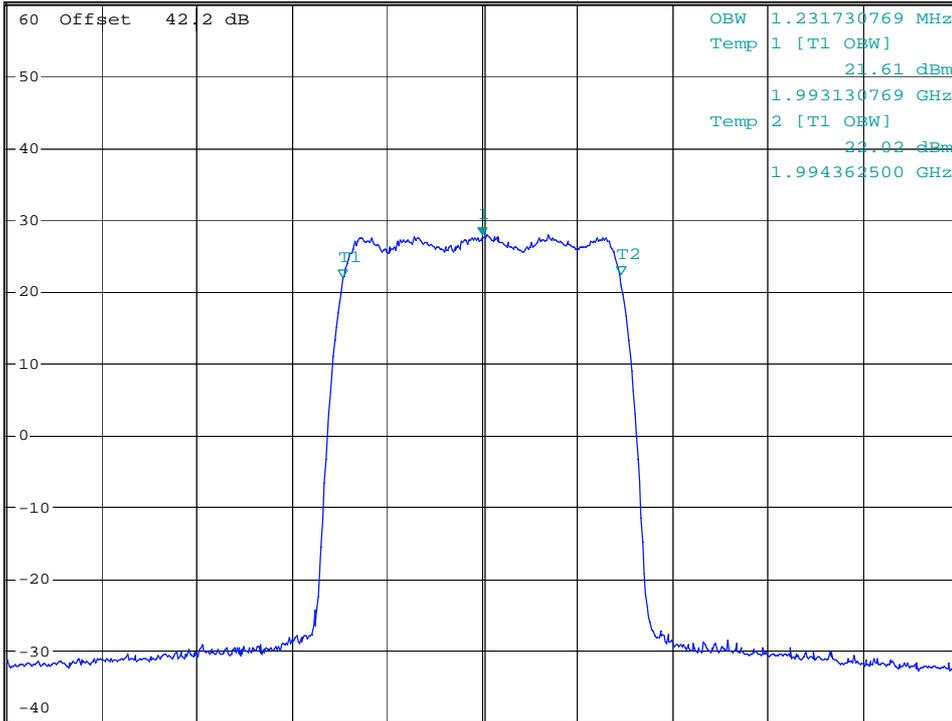
* RBW 20 kHz
 * VBW 300 kHz
 * SWT 1 s

Marker 1 [T1]
 27.64 dBm
 1.993750000 GHz

Ref 60 dBm

Att 25 dB

1 RM
 MAXH



Center 1.99375 GHz 420 kHz/ Span 4.2 MHz

Date: 8.MAR.2010 19:04:30



Appendix D

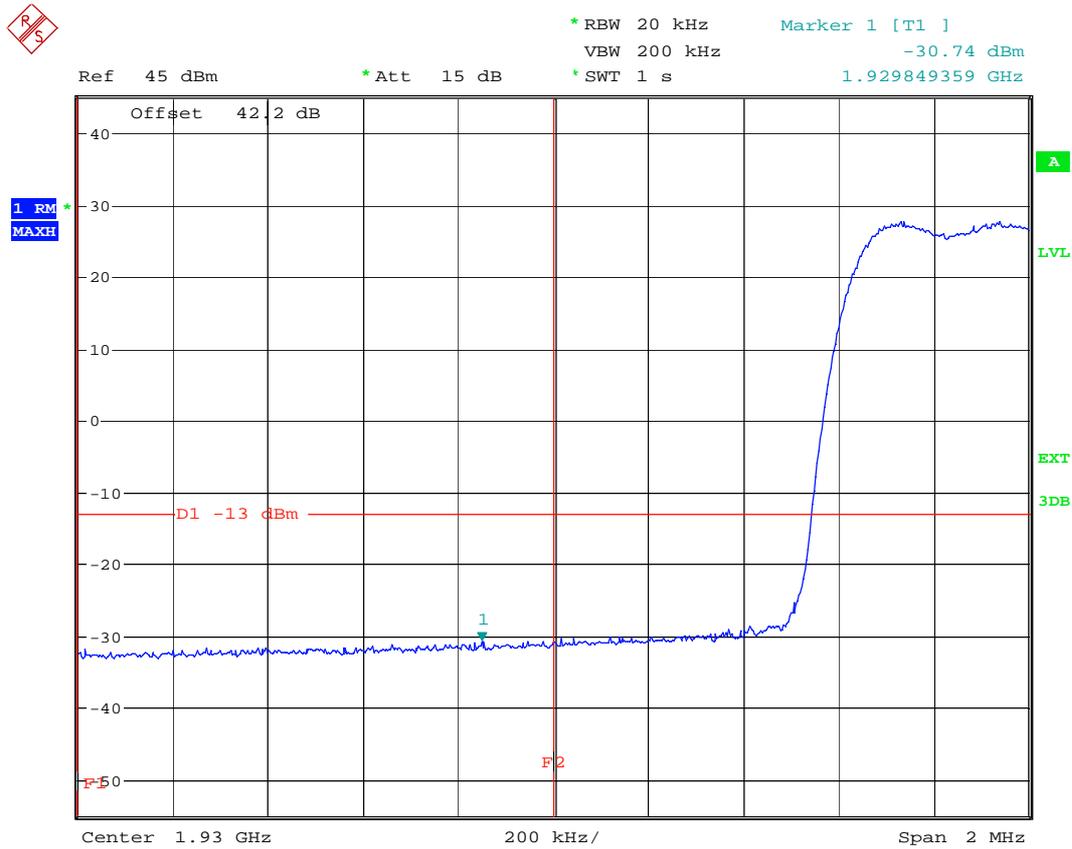
Band Edge Measurement

According to FCC part 2.1051 and part 24.238



(1) 1X One Carrier

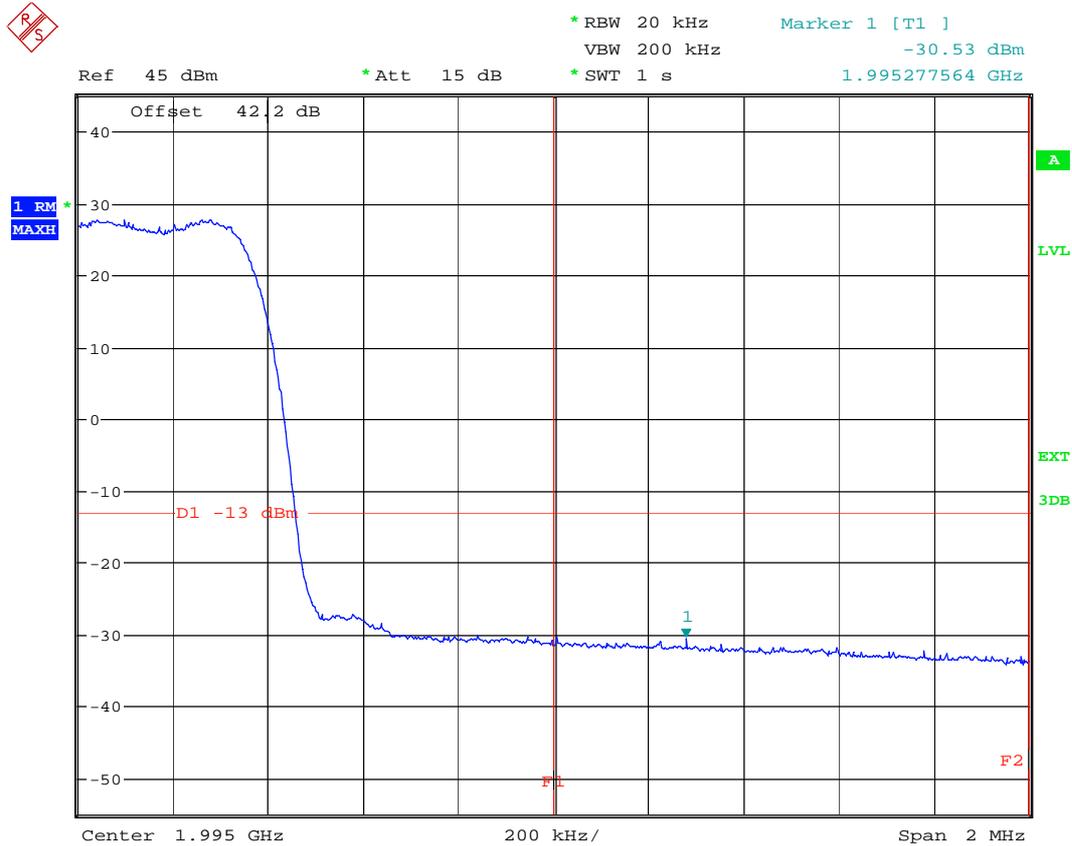
B channel



Date: 8.MAR.2010 11:09:02



T channel

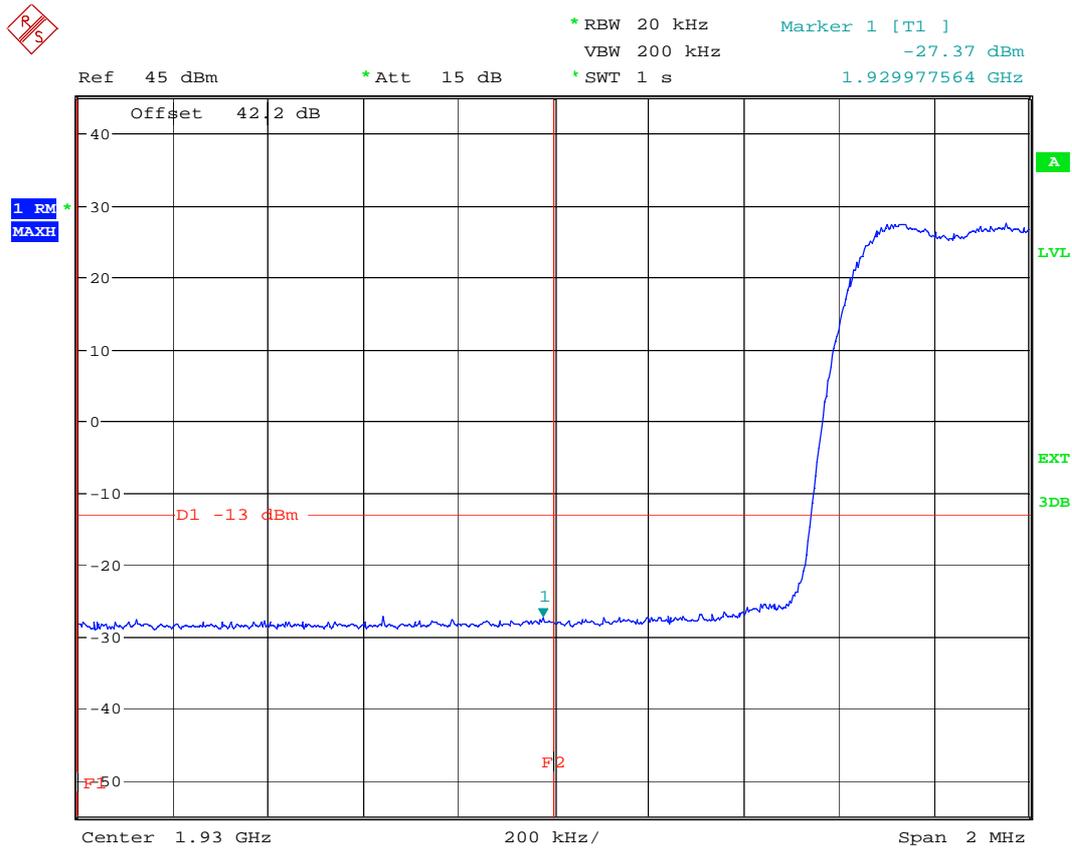


Date: 8.MAR.2010 17:08:17



(4) EVDO Four Carriers

B channel



Date: 8.MAR.2010 20:23:36



Appendix E

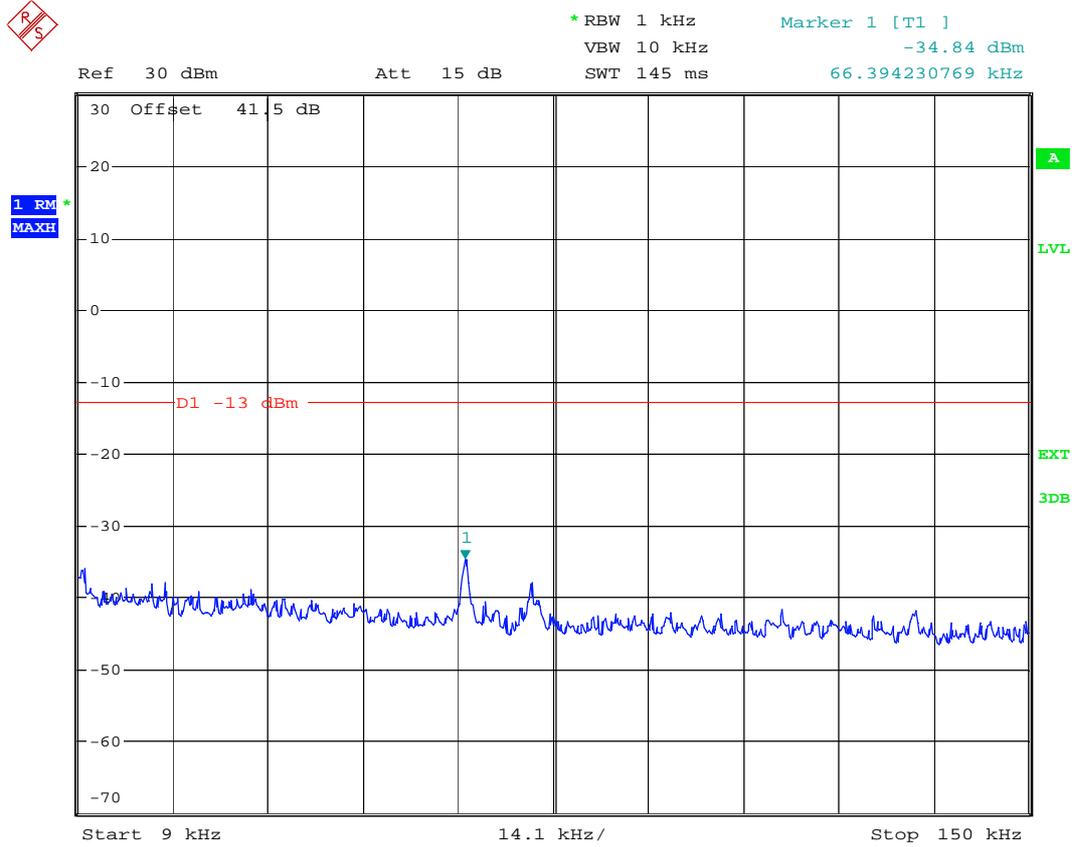
Spurious Emission at Antenna Terminal Measurement

According to FCC part 2.1051 and part 24.238



(1) 1X One Carrier

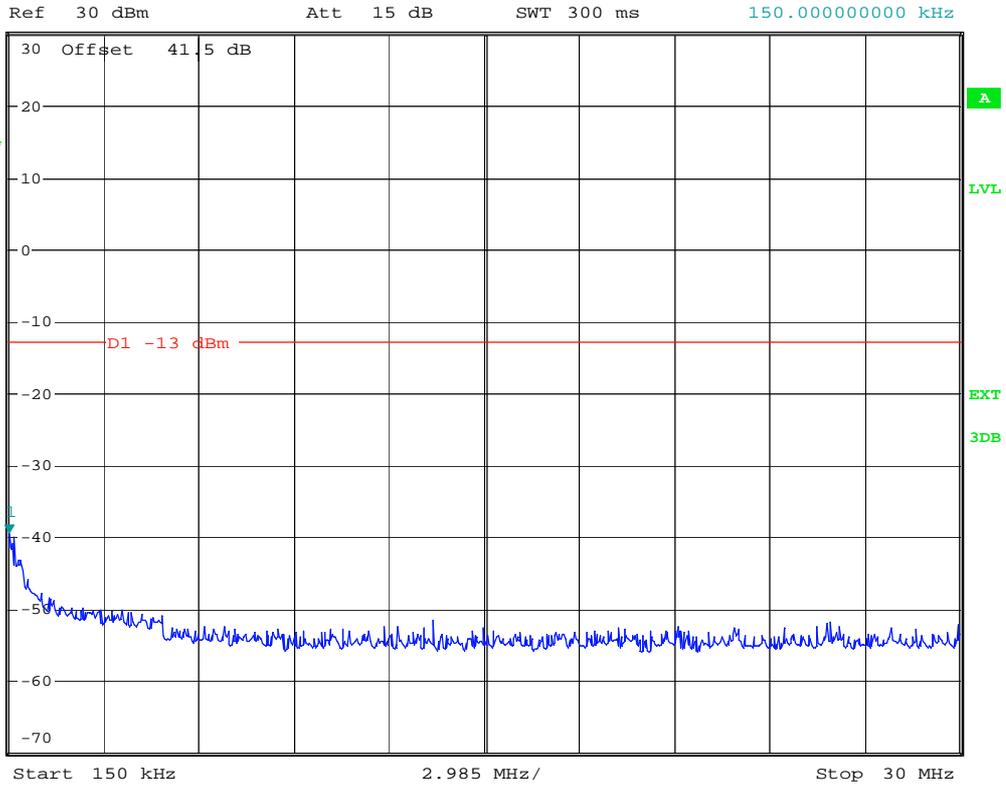
B channel



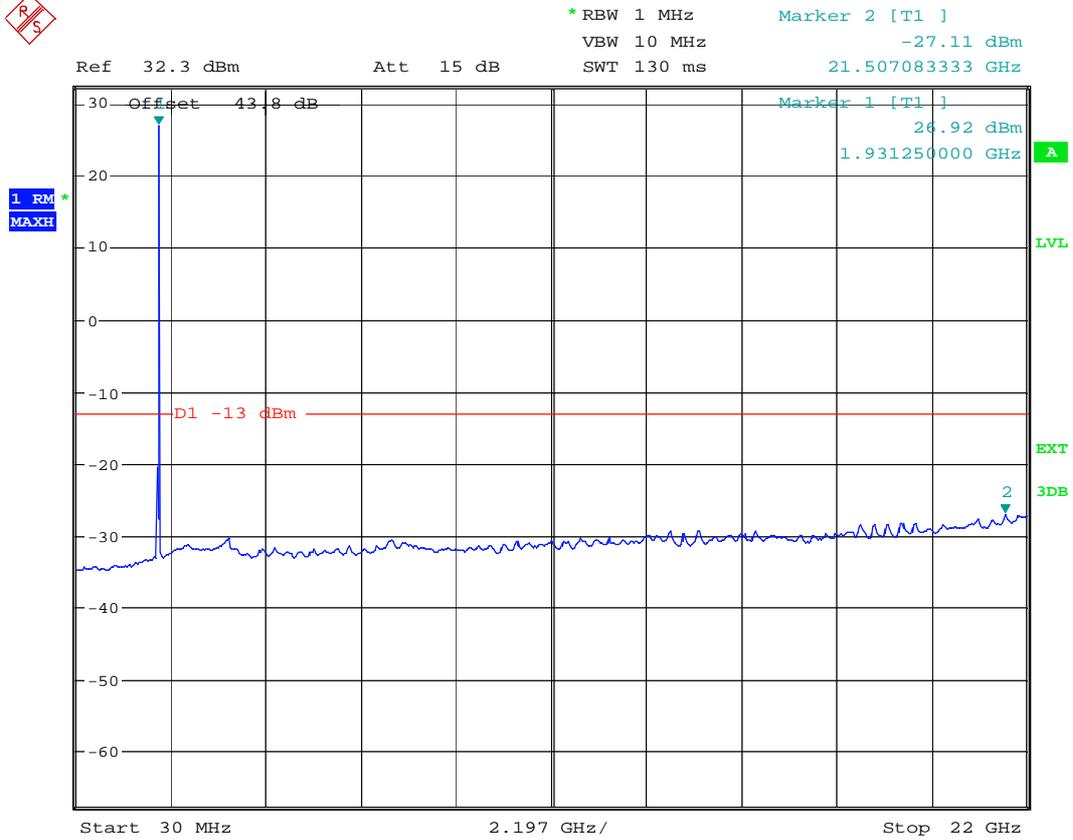
Date: 9.MAR.2010 17:17:37



*RBW 10 kHz Marker 1 [T1]
 VBW 100 kHz -39.64 dBm
 SWT 300 ms 150.00000000 kHz



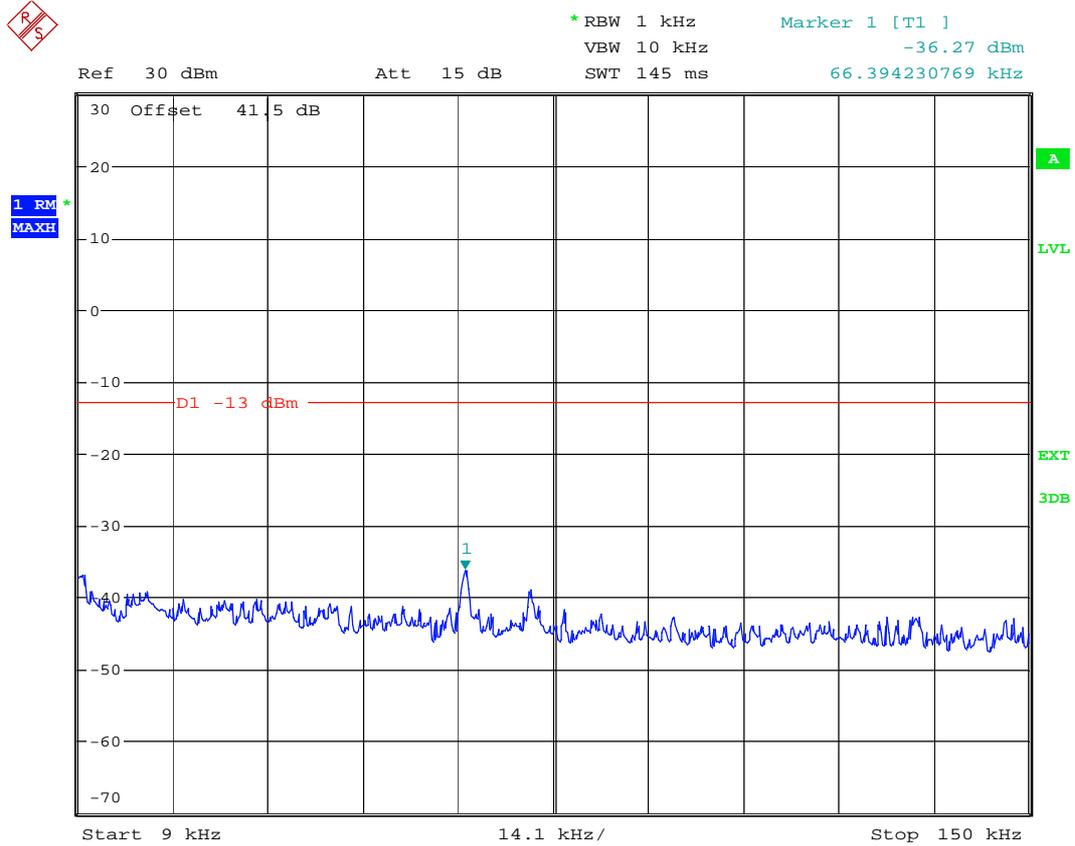
Date: 9.MAR.2010 17:18:19



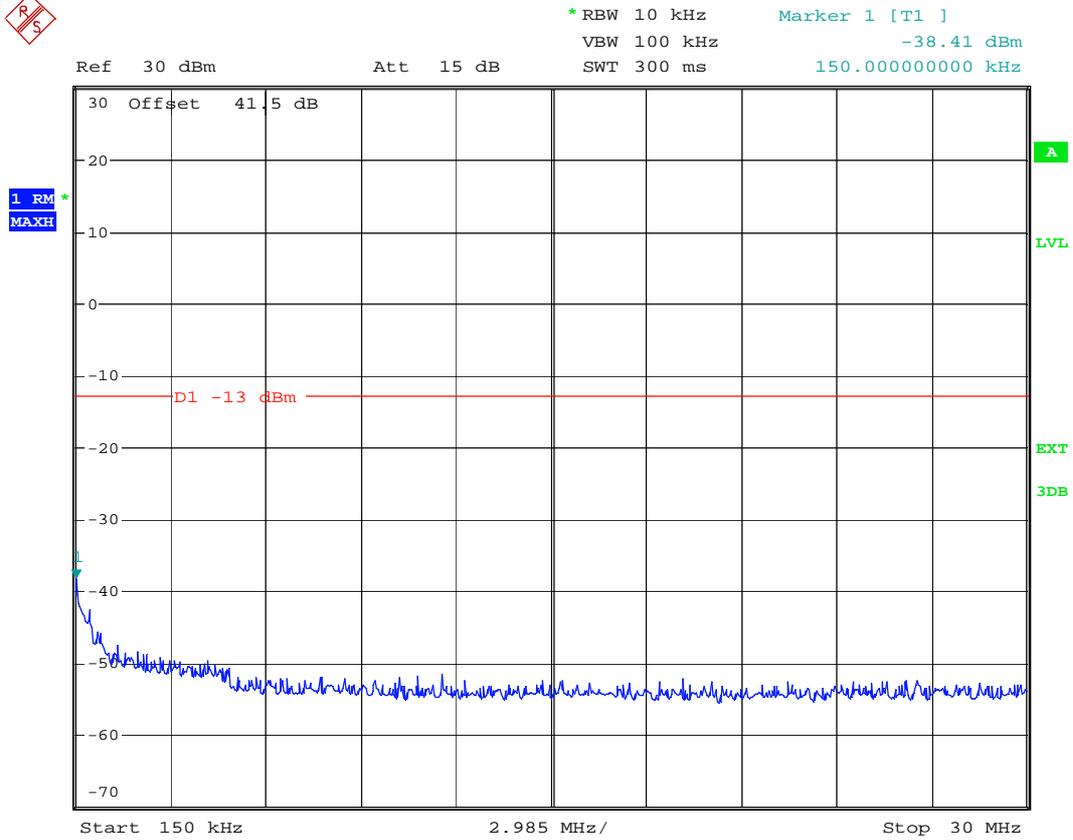
Date: 9.MAR.2010 17:19:46



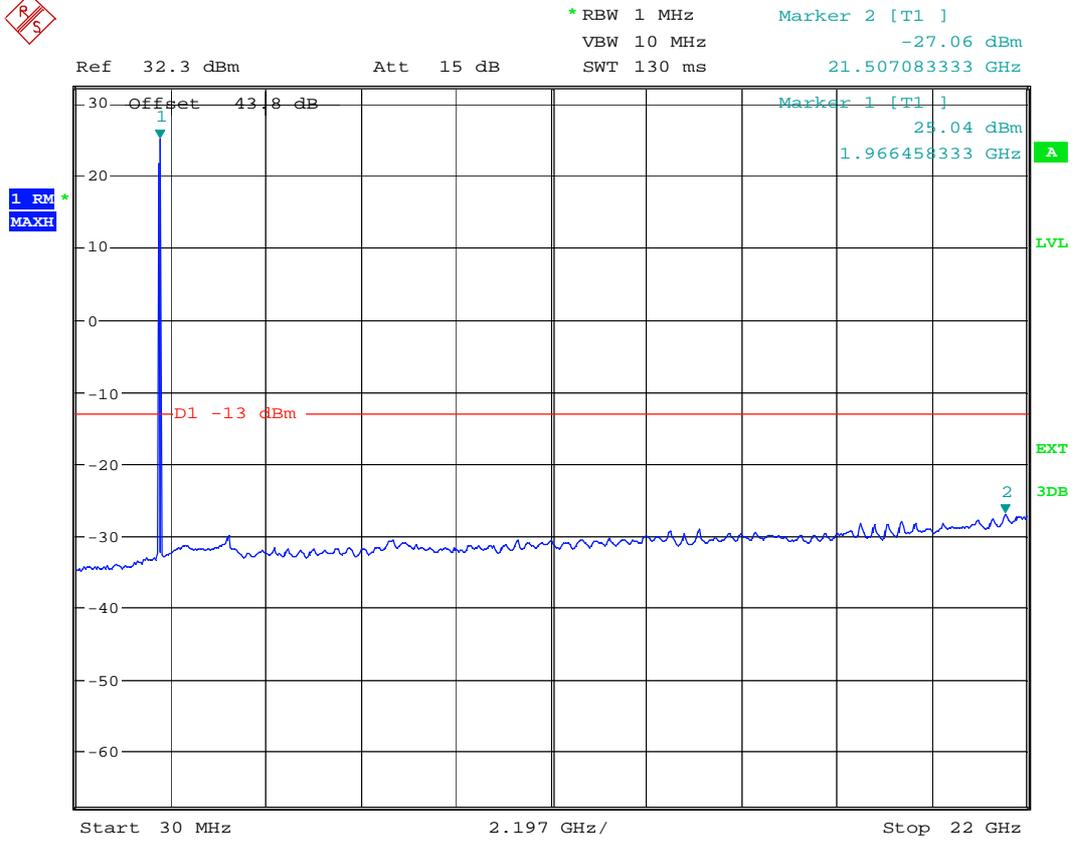
M channel



Date: 9.MAR.2010 17:26:24



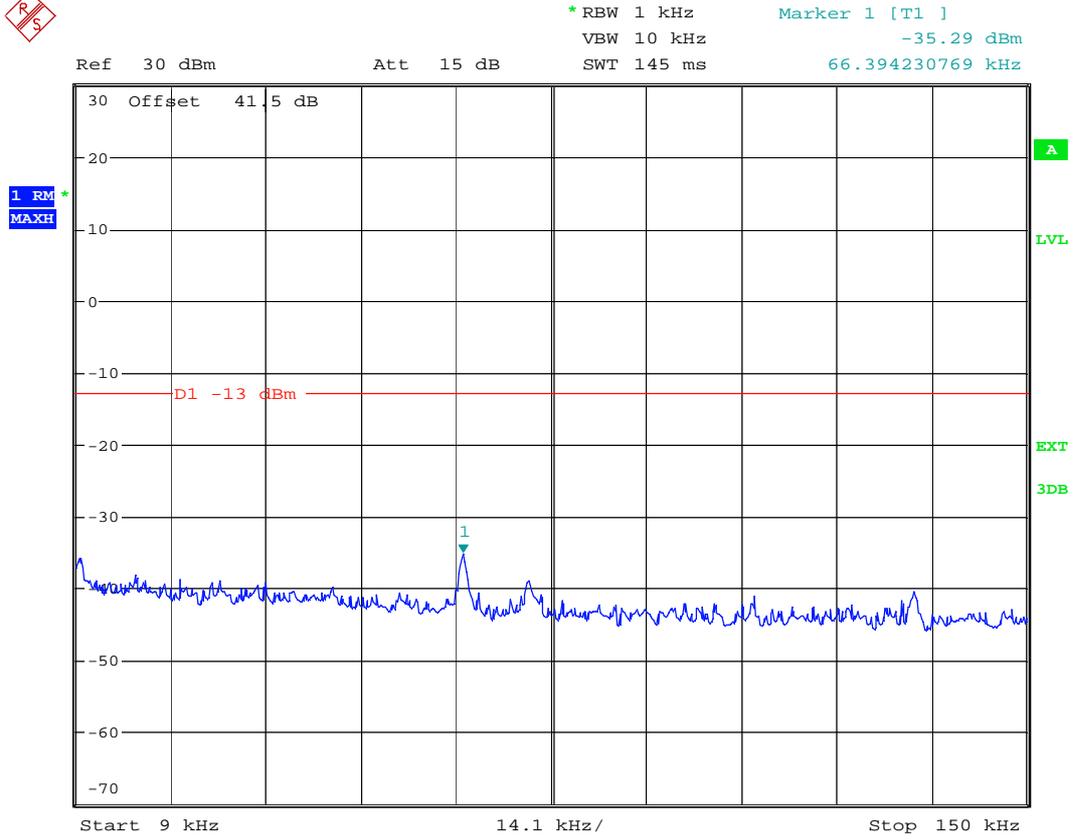
Date: 9.MAR.2010 17:25:23



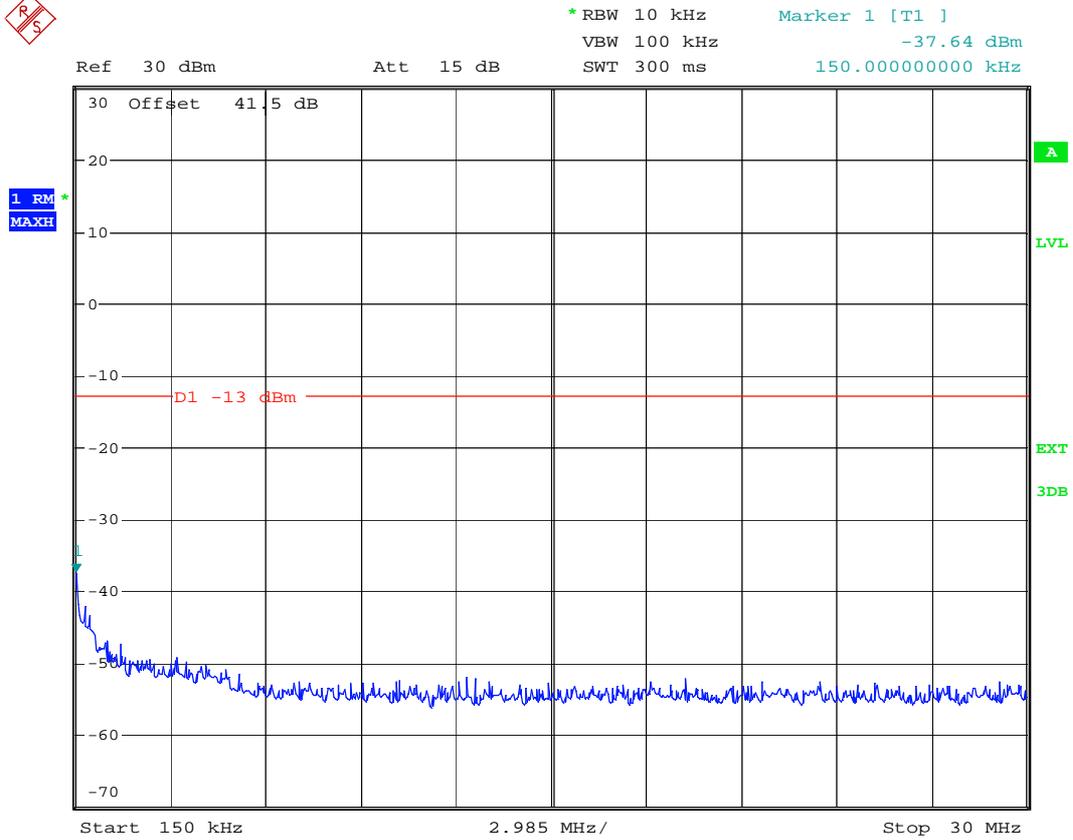
Date: 9.MAR.2010 17:23:49



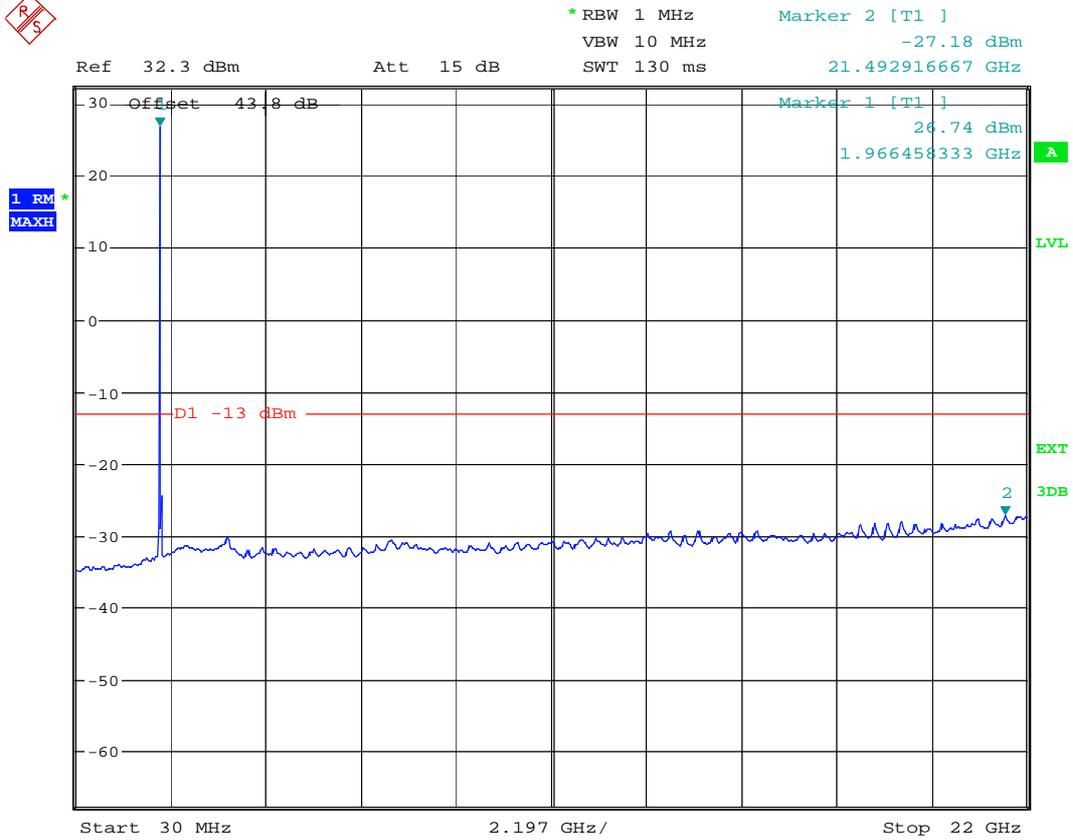
T channel



Date: 9.MAR.2010 17:28:11



Date: 9.MAR.2010 17:29:00

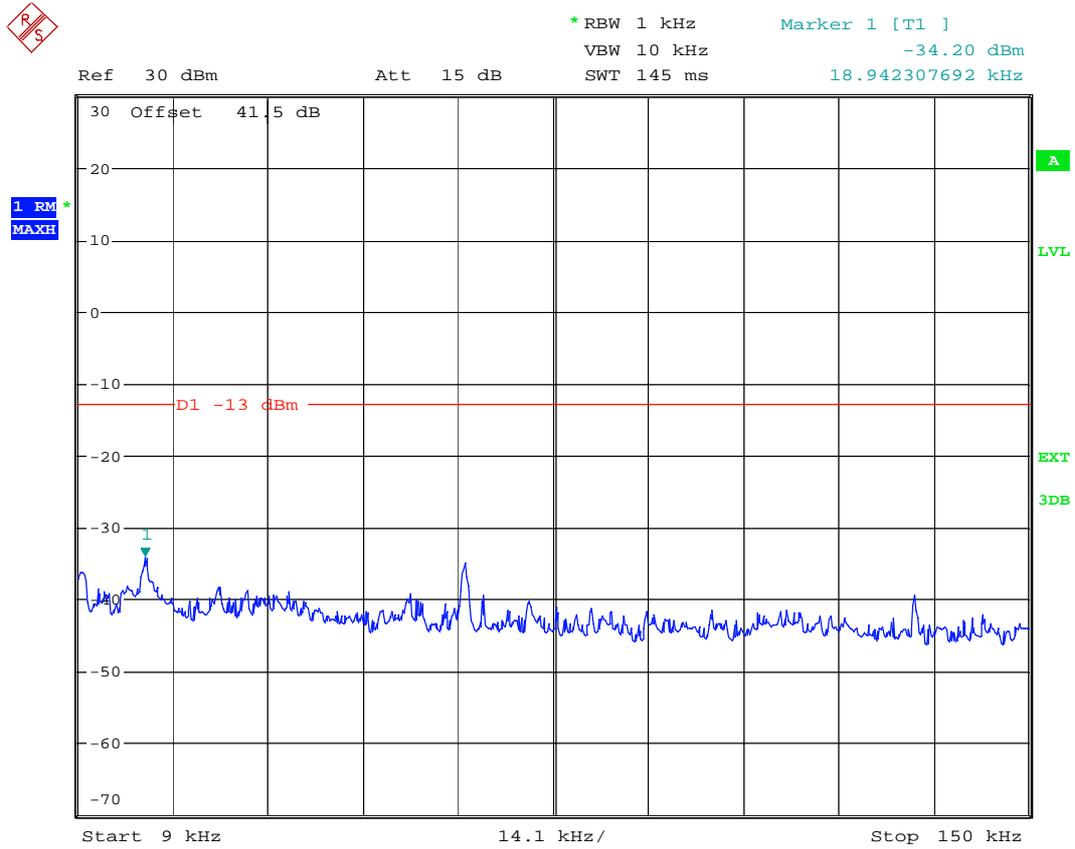


Date: 9.MAR.2010 17:31:24



(2) 1X Four Carriers

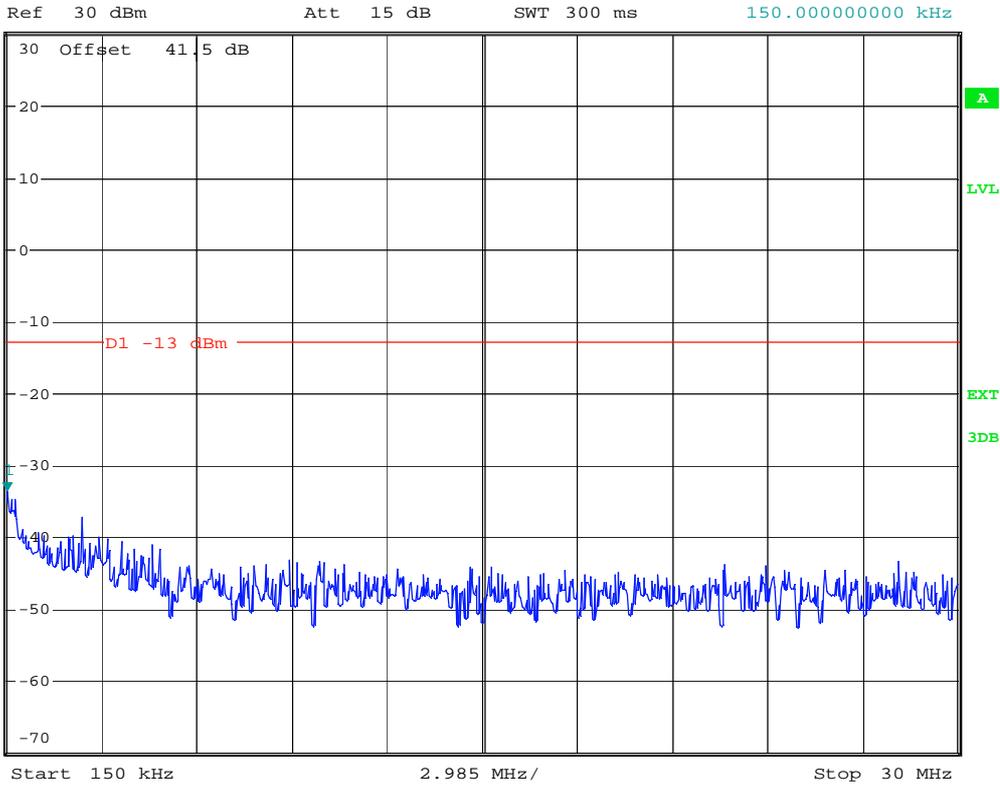
B channel



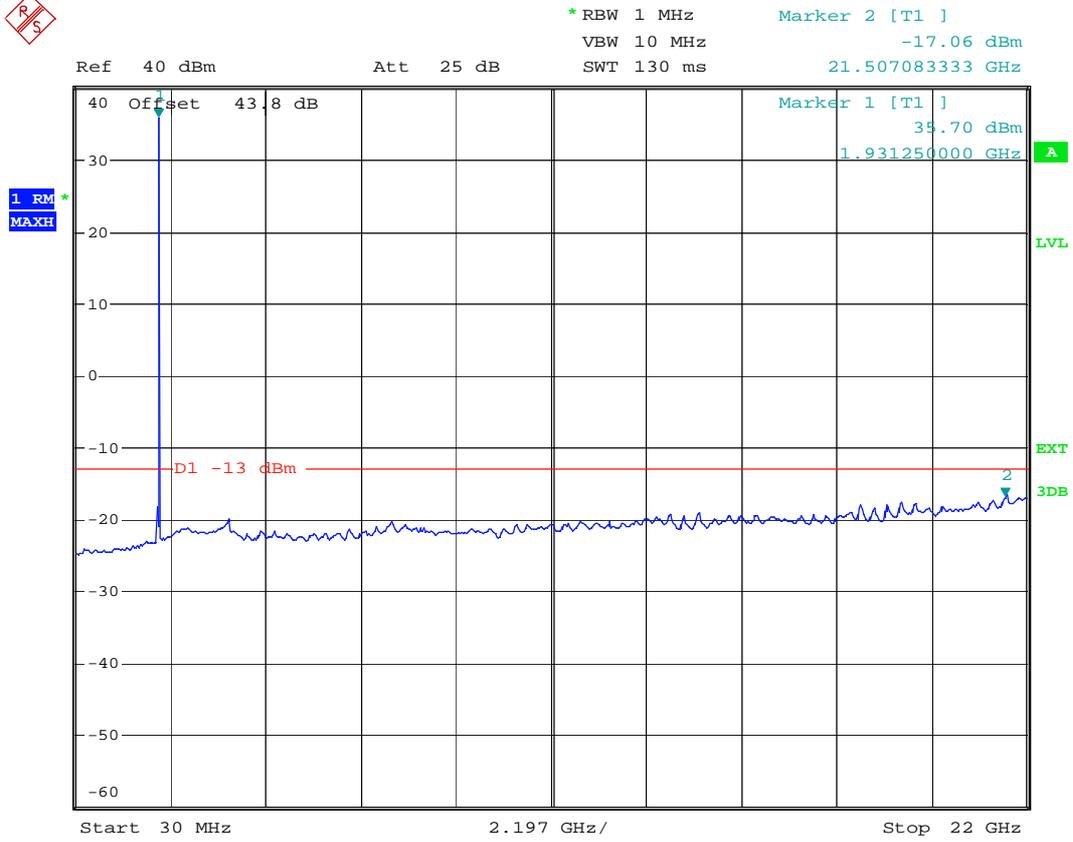
Date: 9.MAR.2010 18:51:01



*RBW 10 kHz Marker 1 [T1]
 VBW 100 kHz -33.79 dBm
 SWT 300 ms 150.00000000 kHz



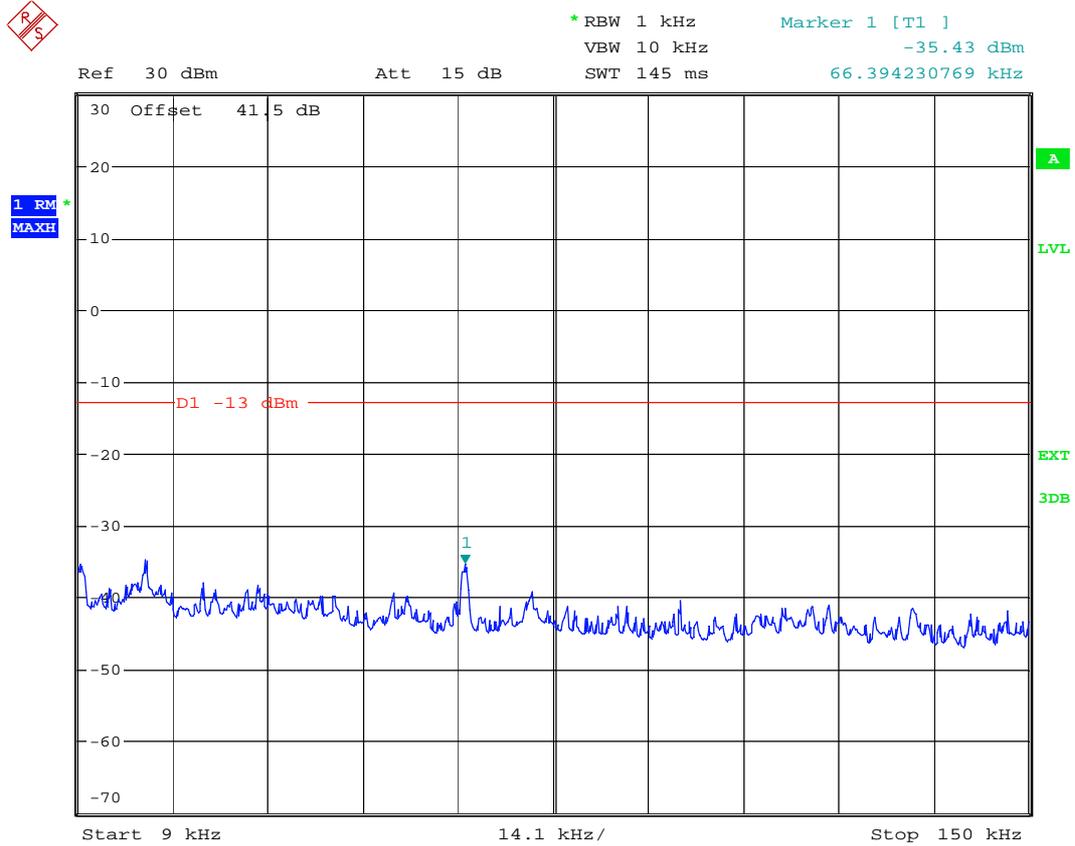
Date: 9.MAR.2010 18:50:07



Date: 9.MAR.2010 18:49:03



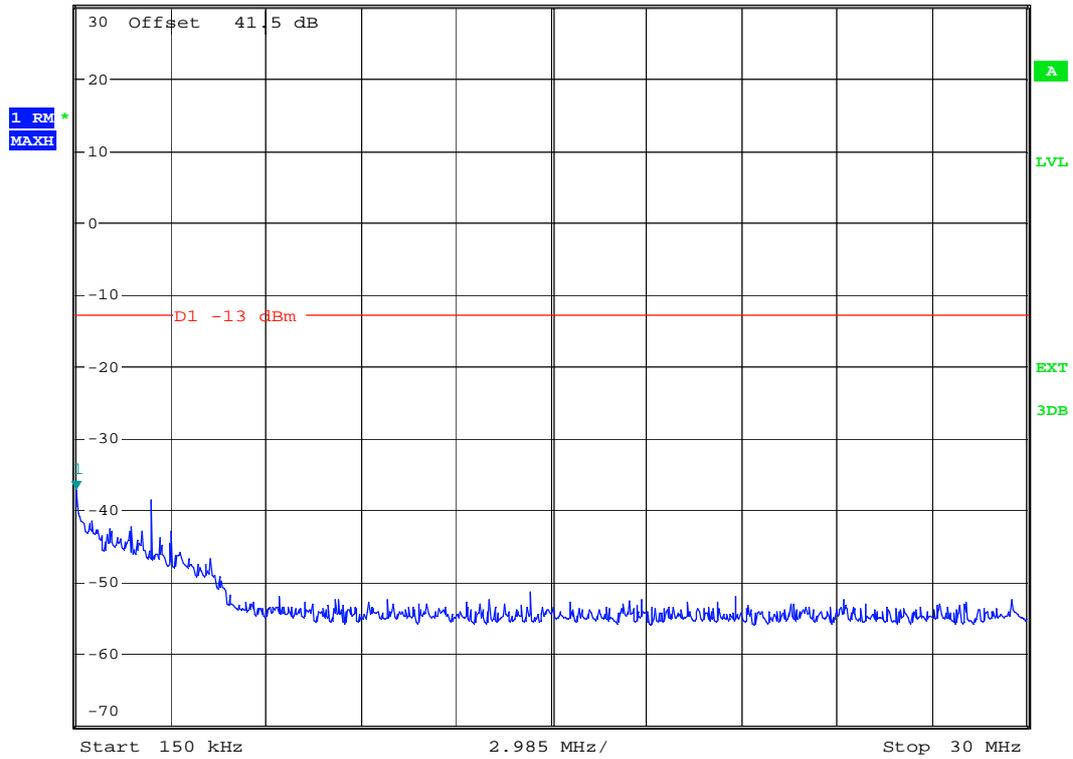
M channel



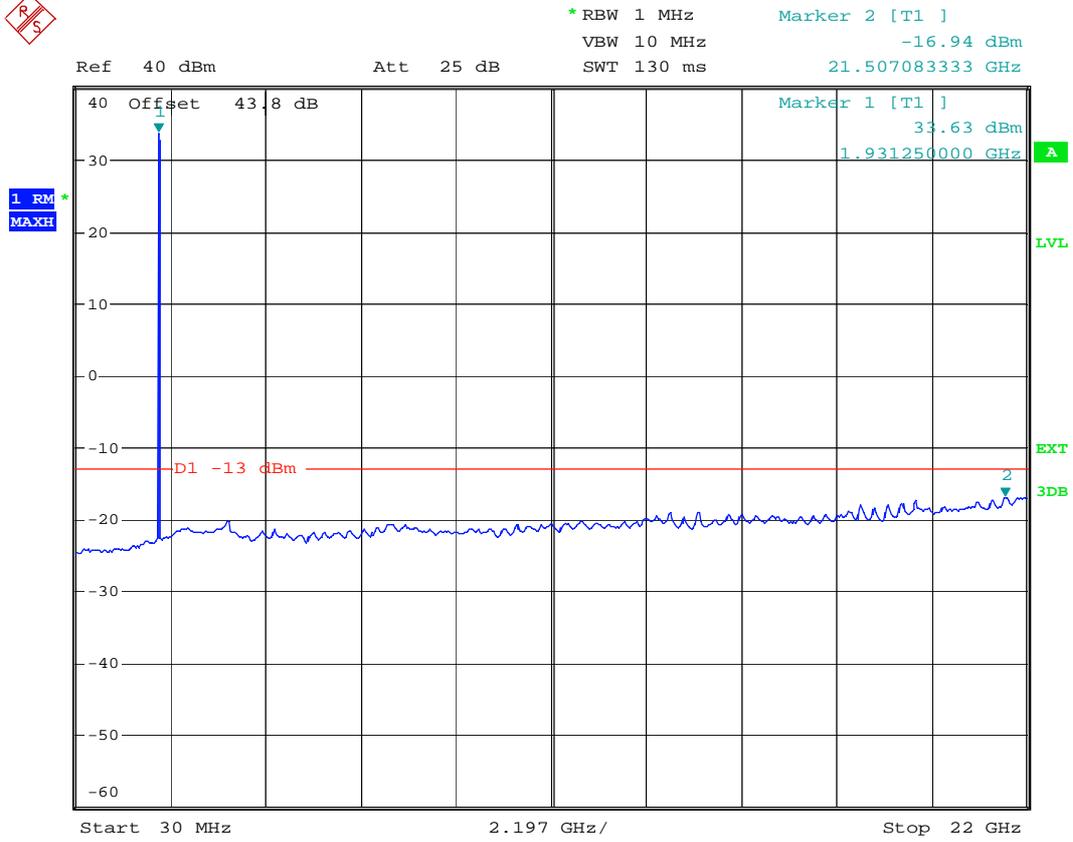
Date: 9.MAR.2010 18:26:25



Ref 30 dBm Att 15 dB *RBW 10 kHz Marker 1 [T1]
 VBW 100 kHz -37.33 dBm
 SWT 300 ms 150.00000000 kHz



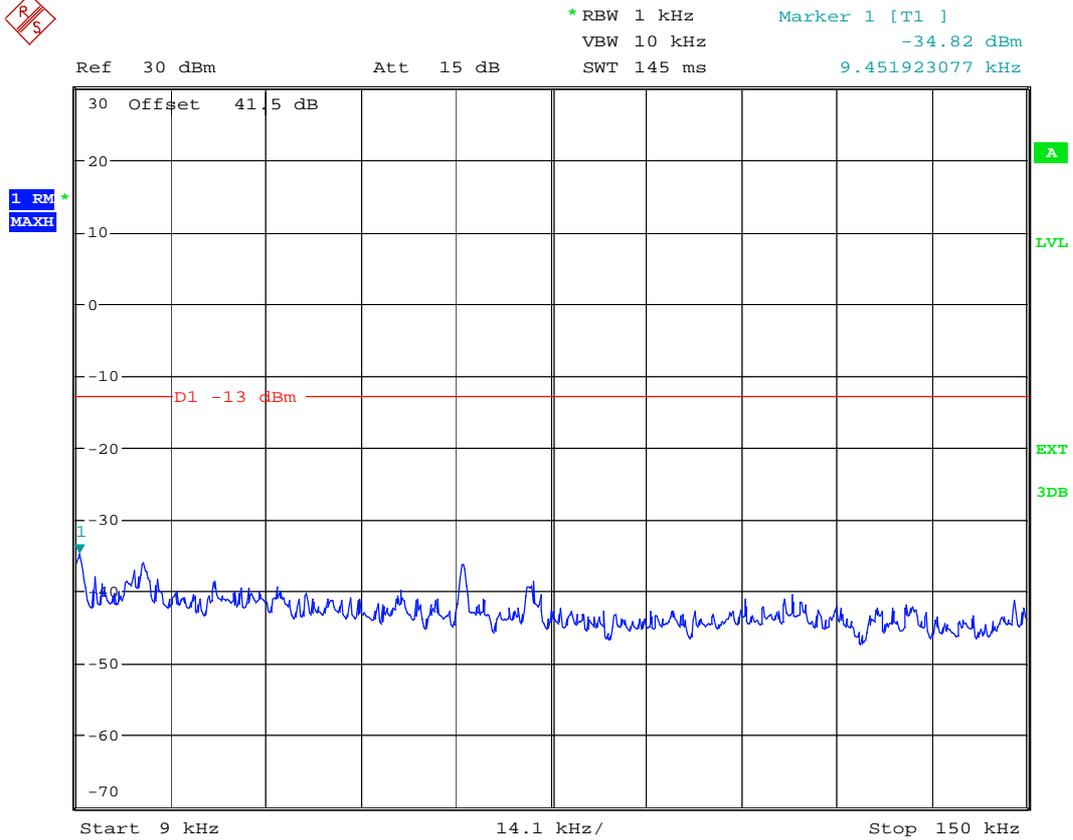
Date: 9.MAR.2010 18:27:11



Date: 9.MAR.2010 18:30:28



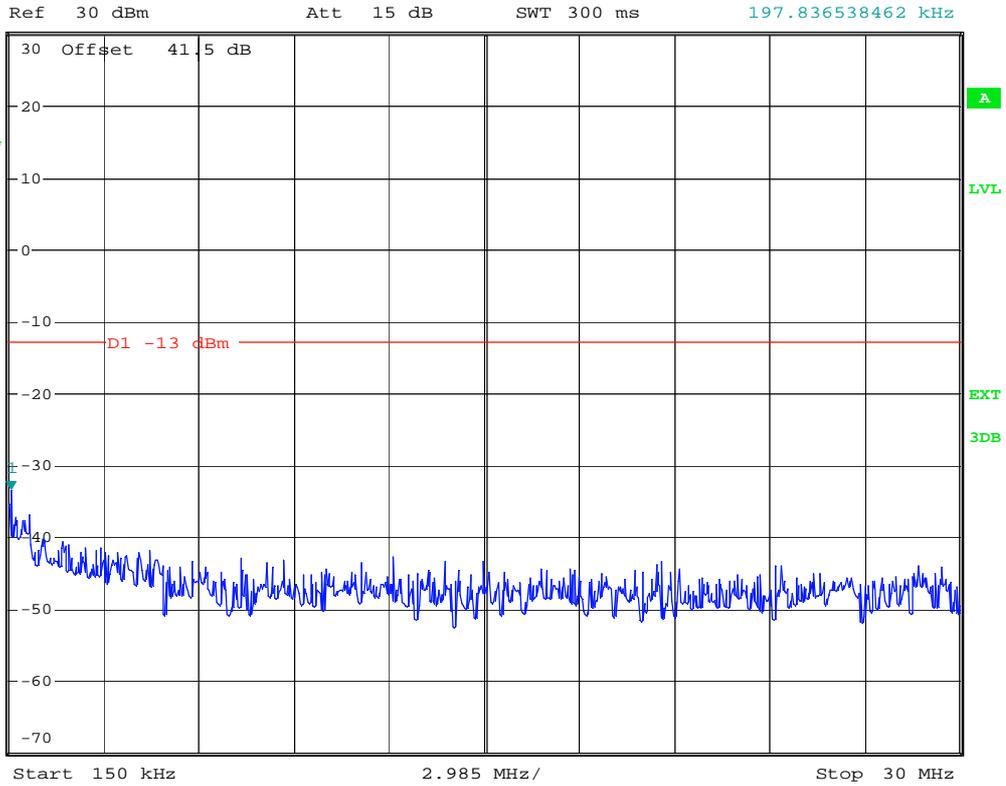
T channel



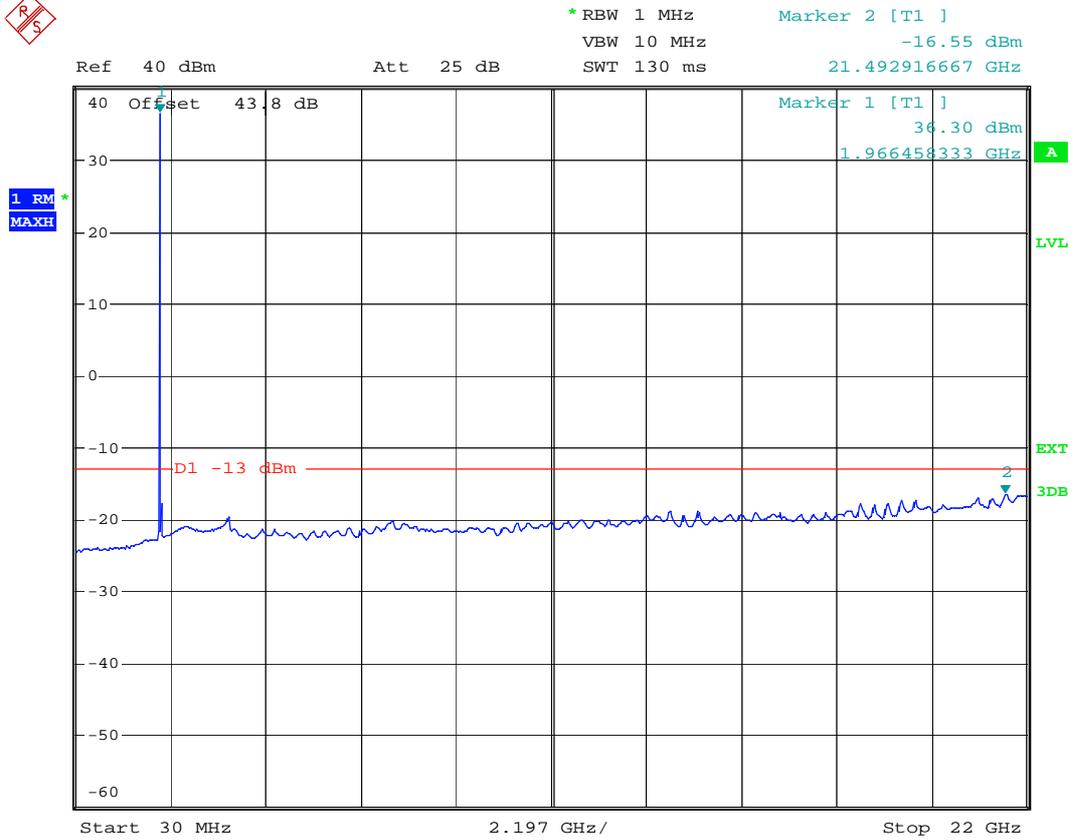
Date: 9.MAR.2010 18:17:53



*RBW 10 kHz Marker 1 [T1]
 VBW 100 kHz -33.47 dBm
 SWT 300 ms 197.836538462 kHz



Date: 9.MAR.2010 18:16:43

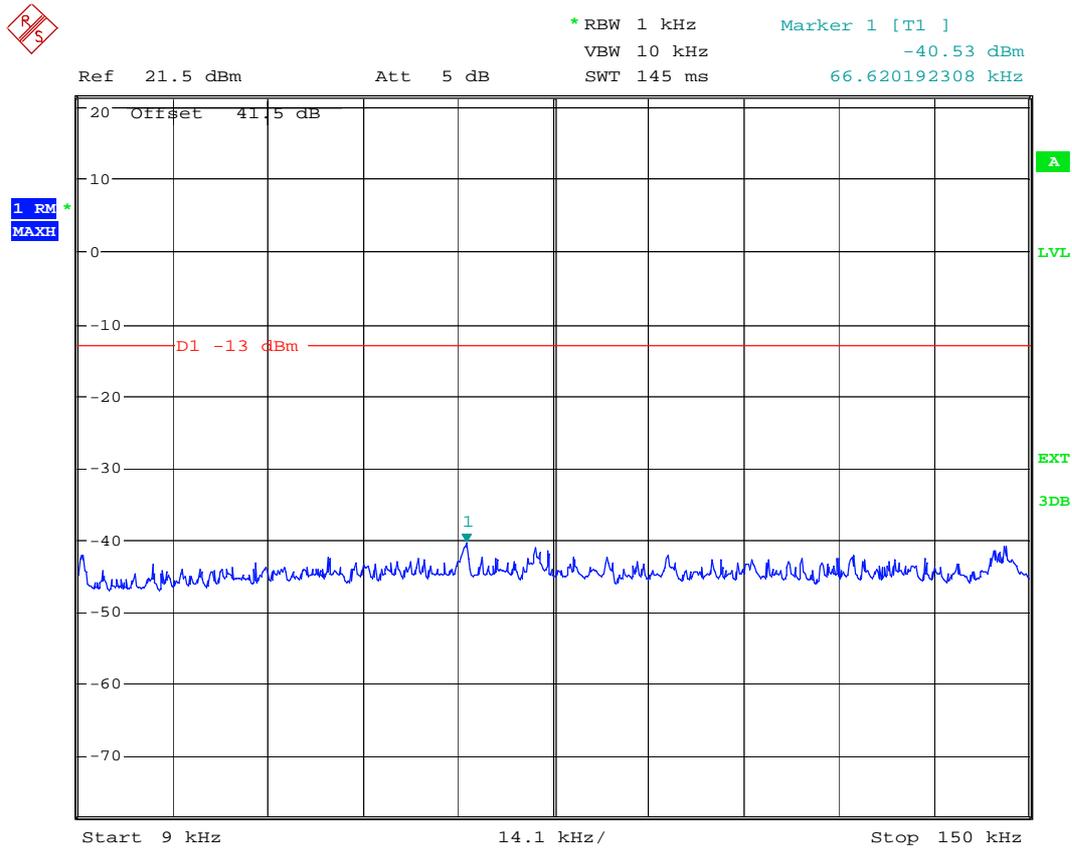


Date: 9.MAR.2010 18:15:33

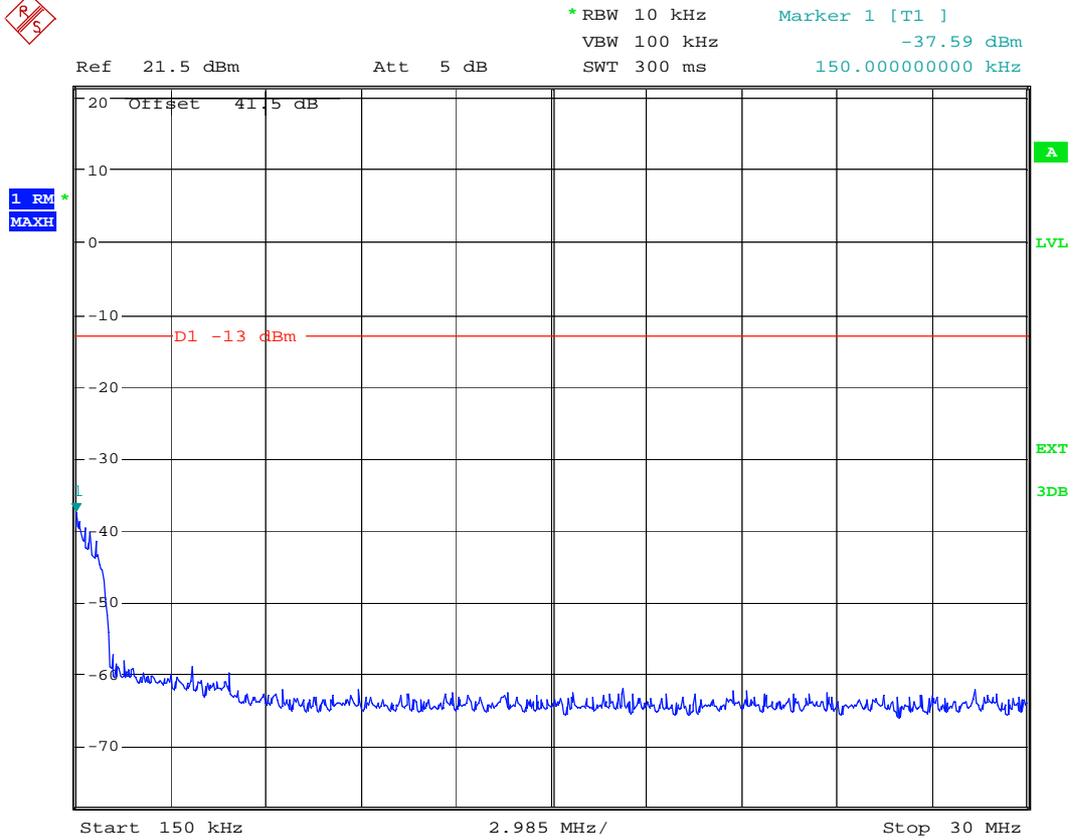


(3) EVDO One Carrier

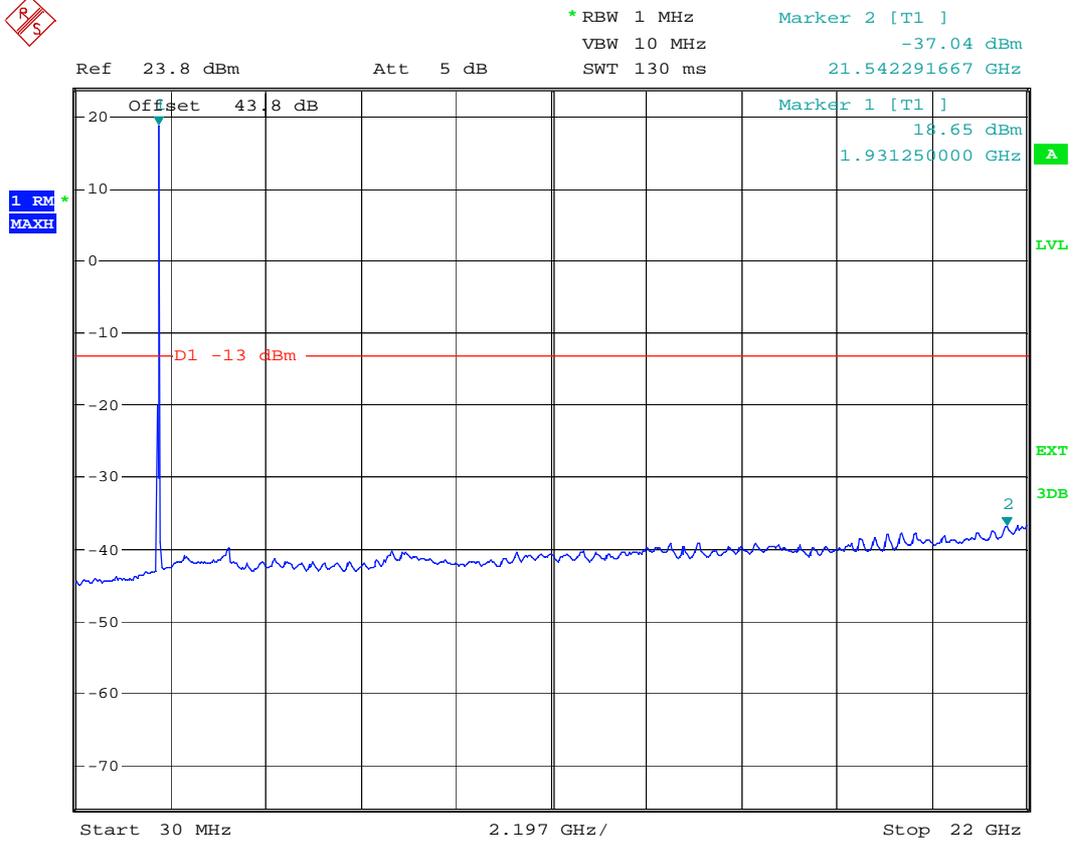
B channel



Date: 9.MAR.2010 16:07:15



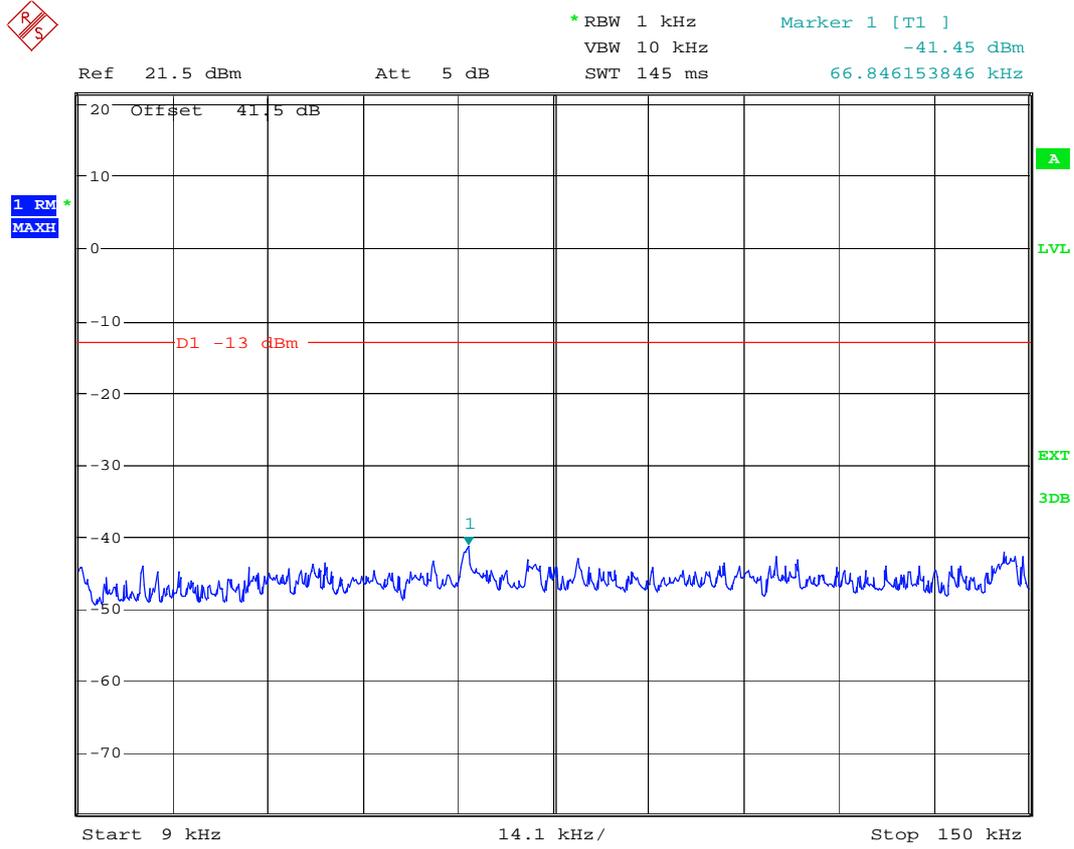
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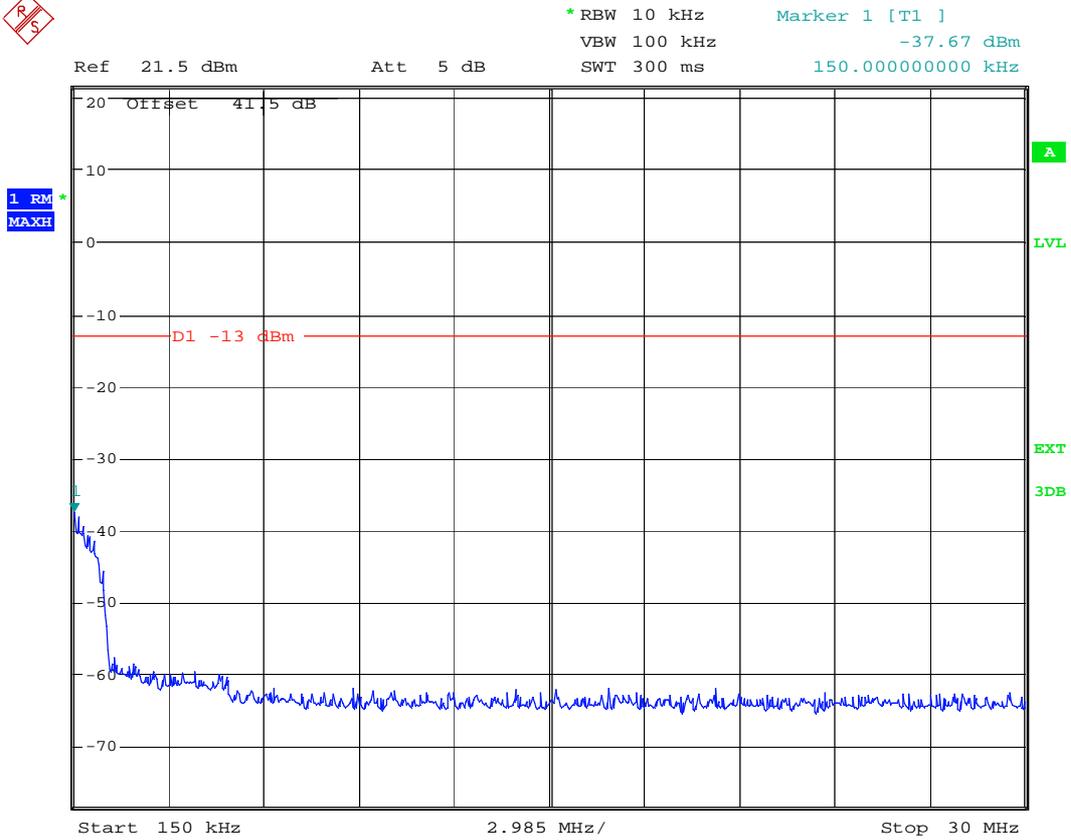
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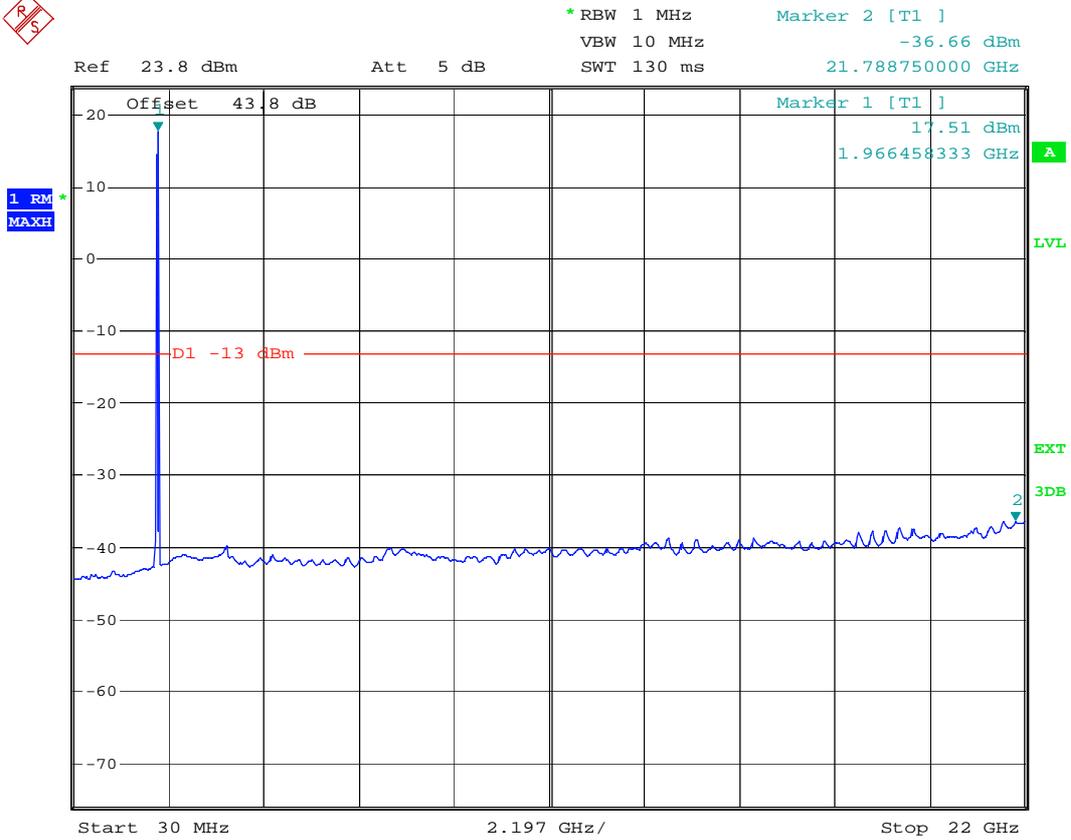
M channel



Date: 9.MAR.2010 16:22:39



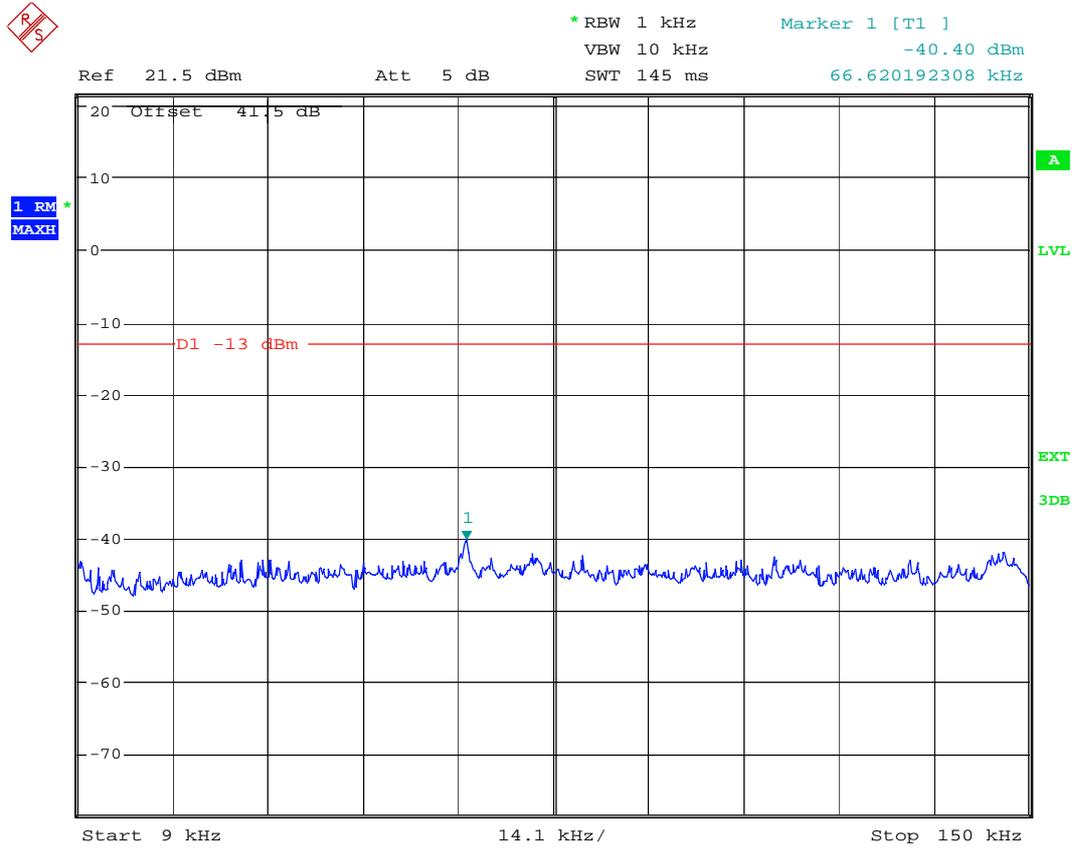
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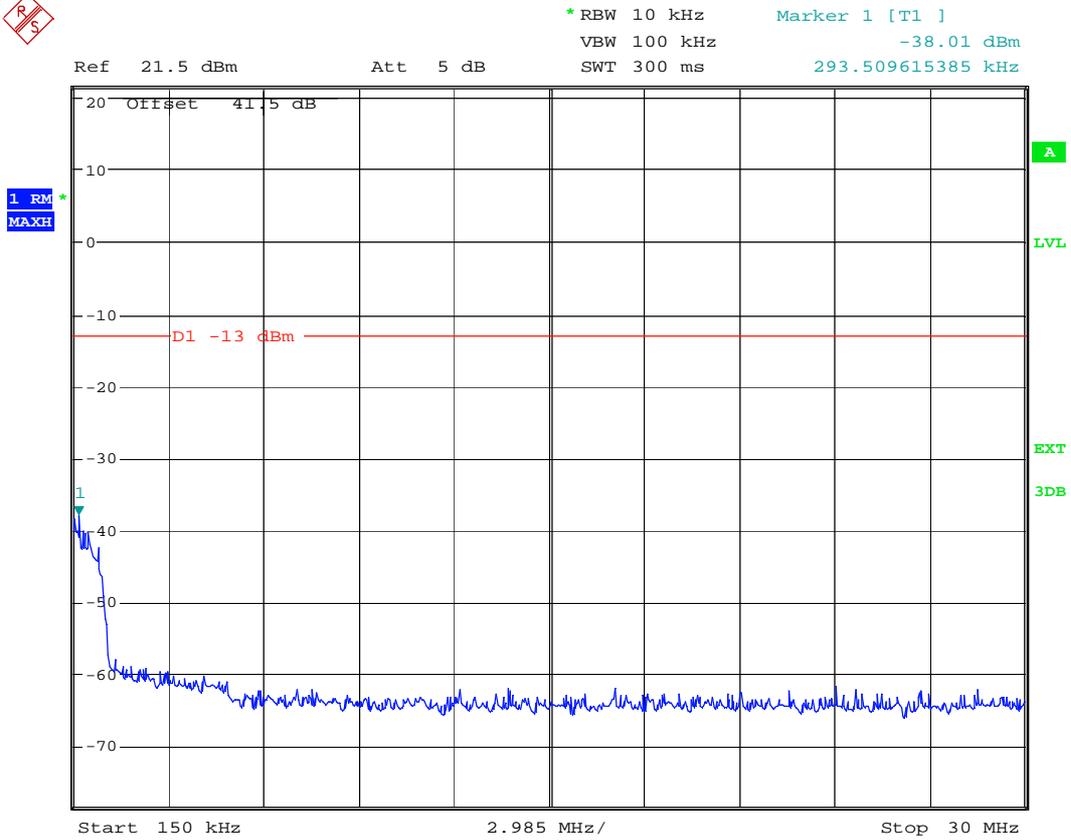
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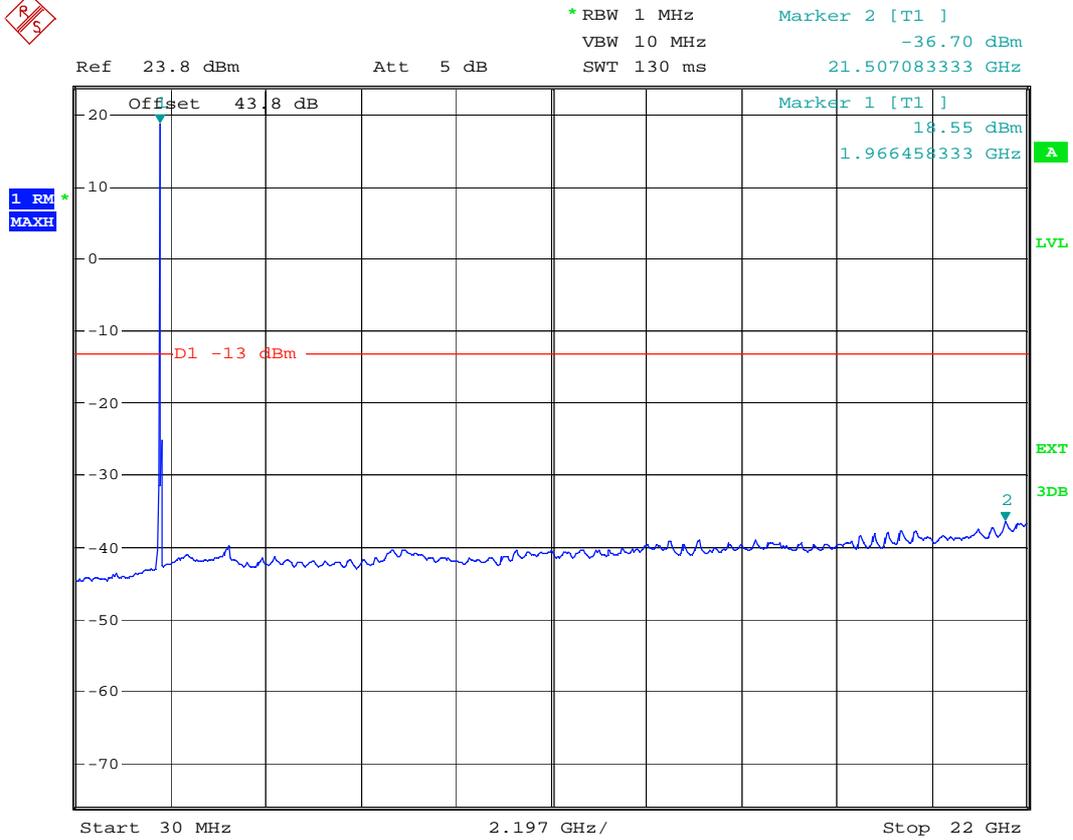
T channel



Date: 9.MAR.2010 16:30:43



Date: 9.MAR.2010 16:31:36

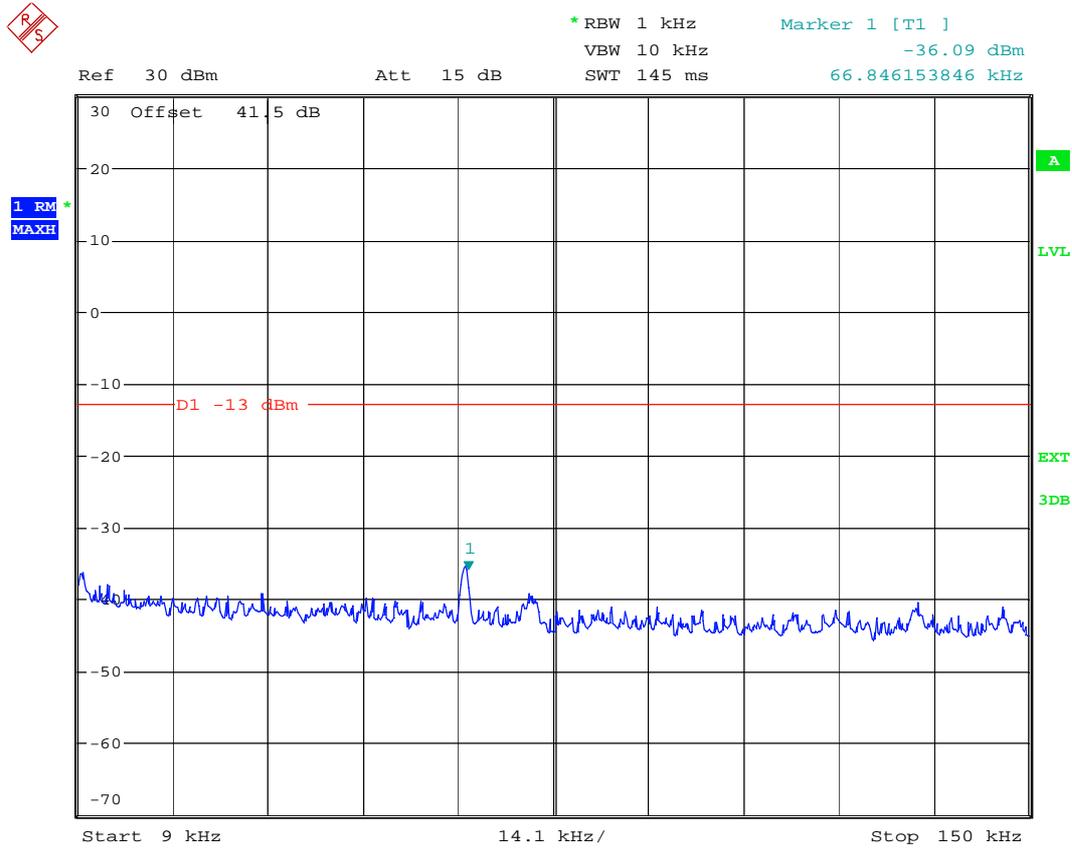


Date: 9.MAR.2010 16:33:53

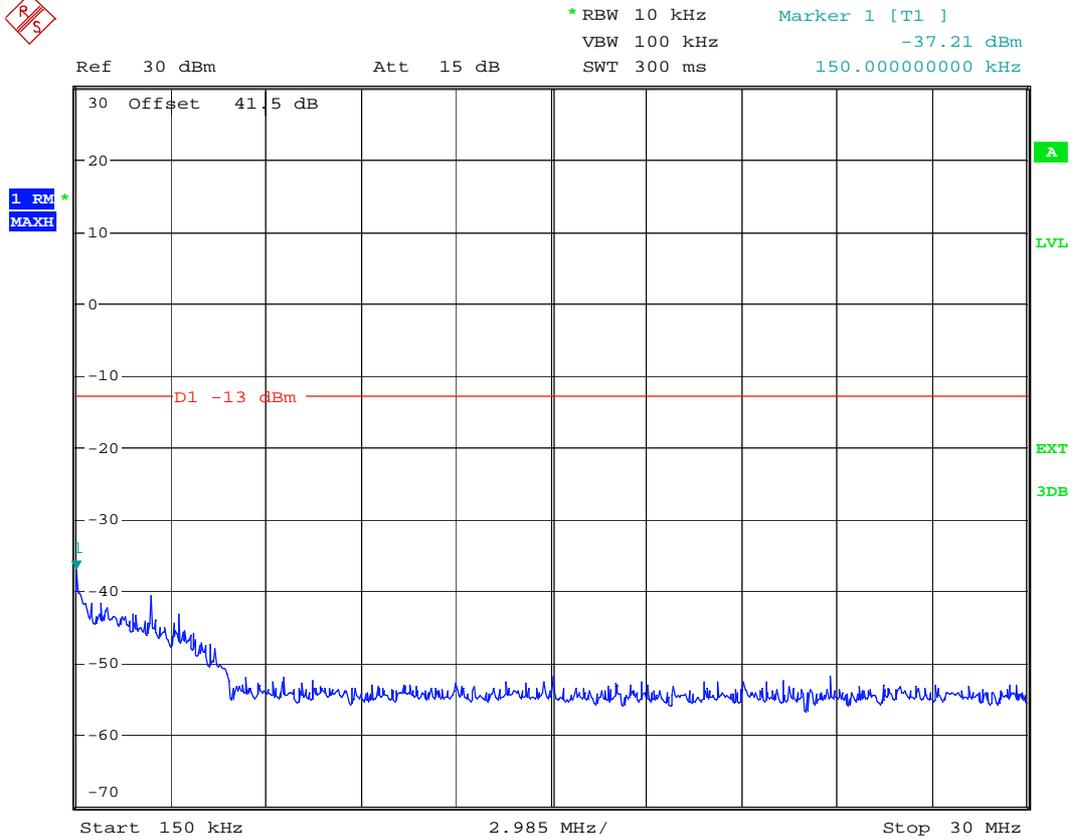


(4) EVDO Four Carriers

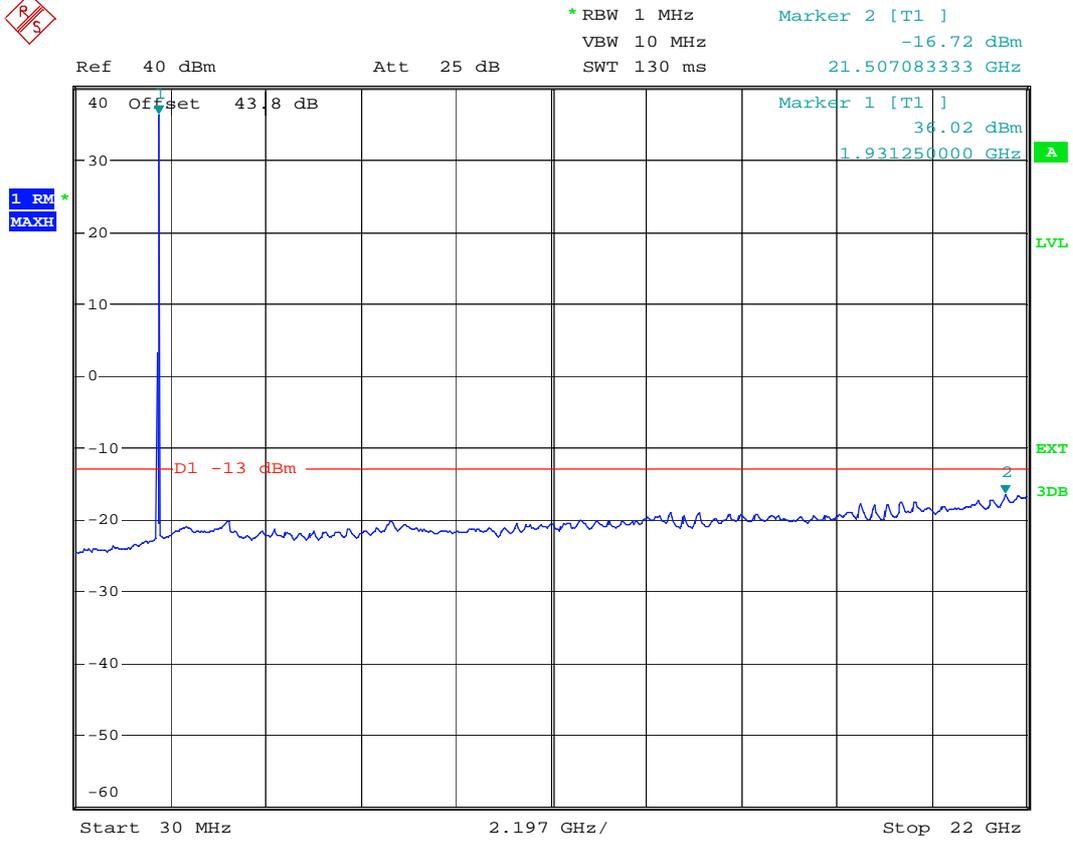
B channel



Date: 9.MAR.2010 17:08:19



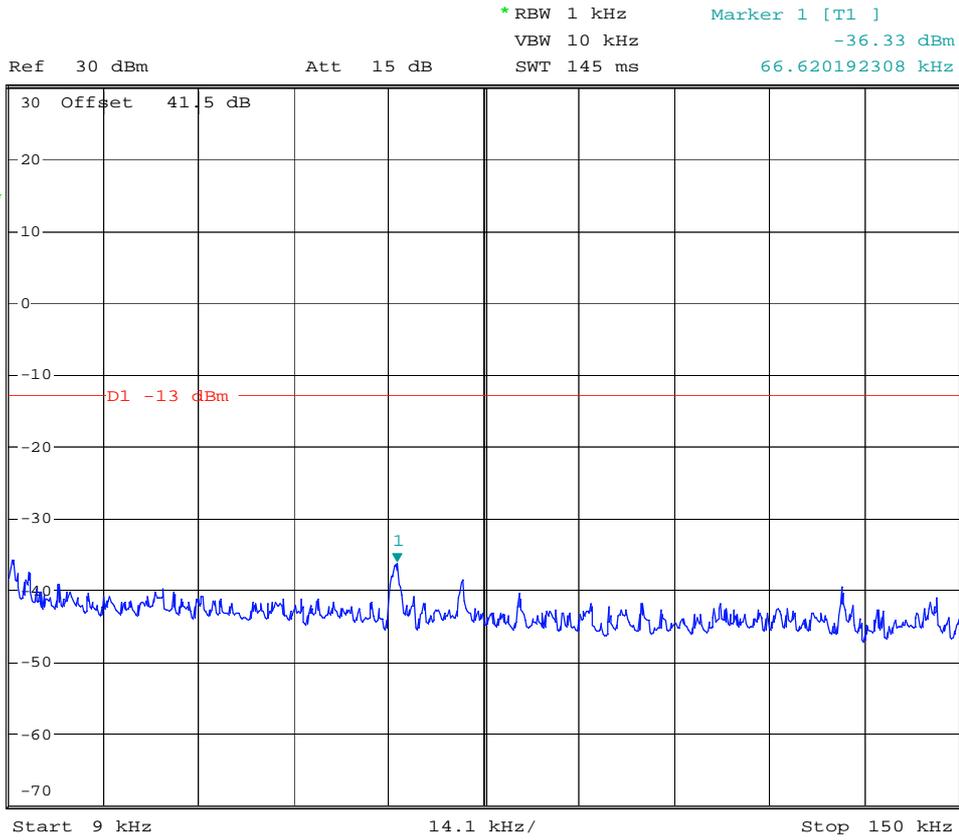
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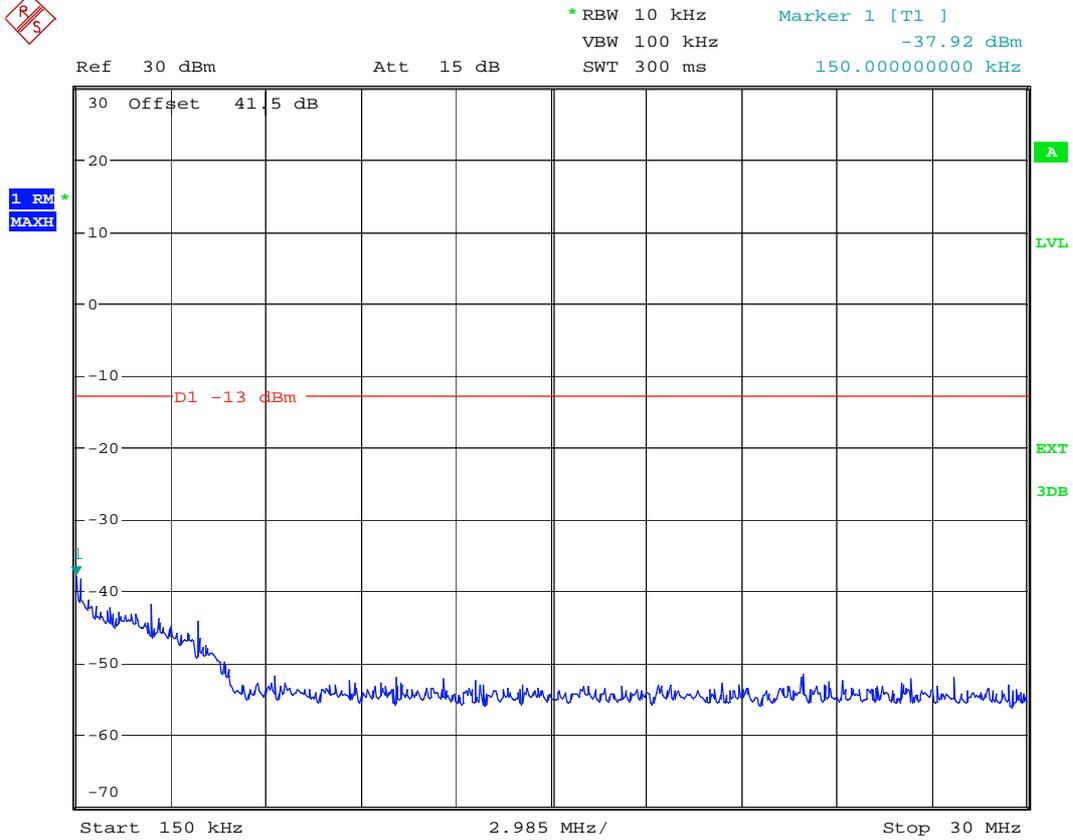
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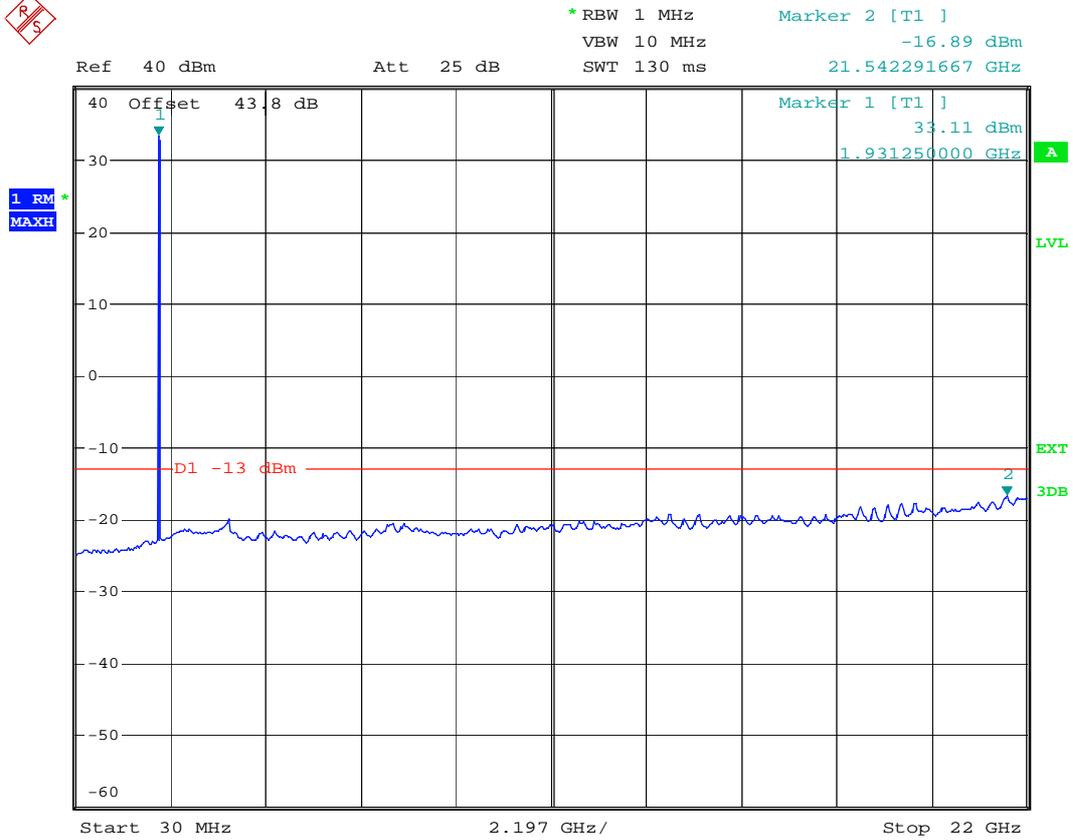
M channel



Date: 9.MAR.2010 16:57:09



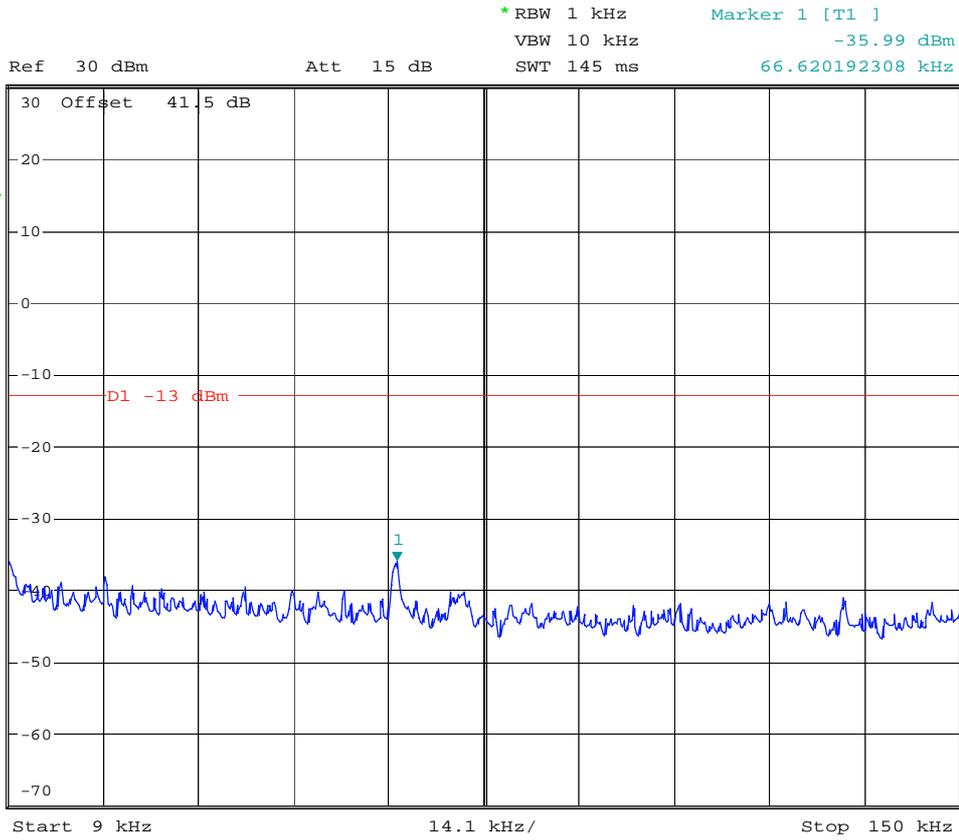
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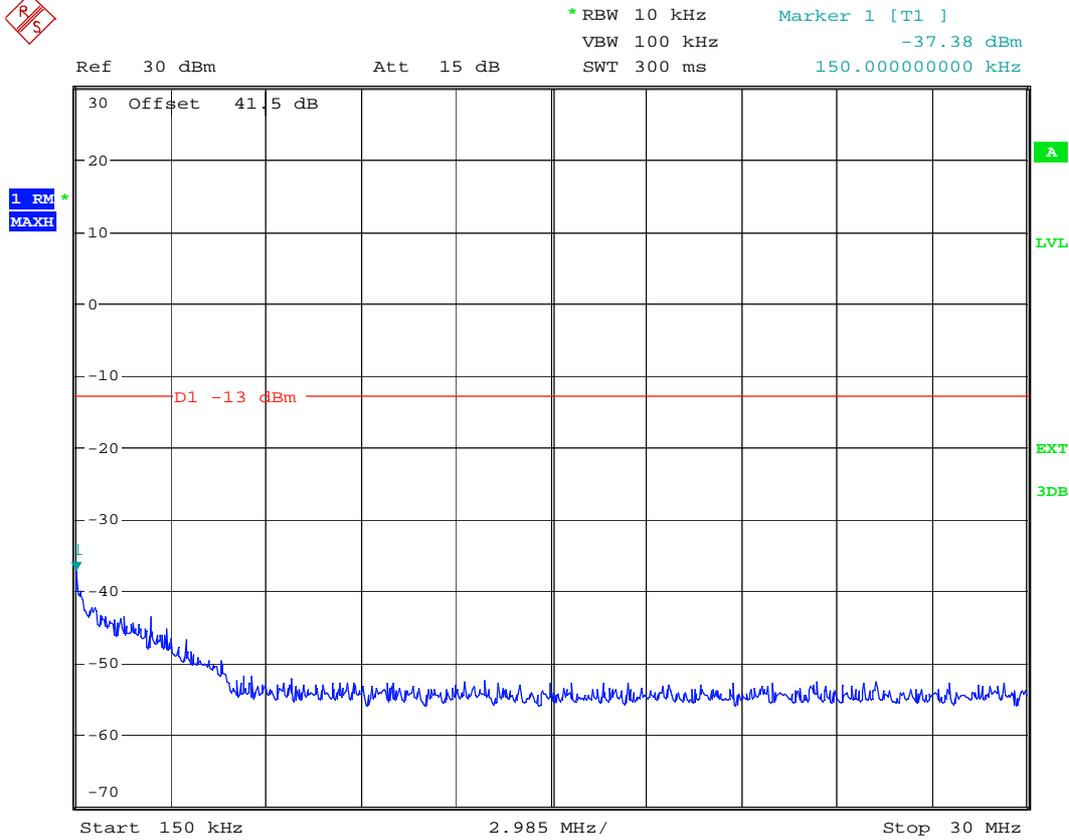
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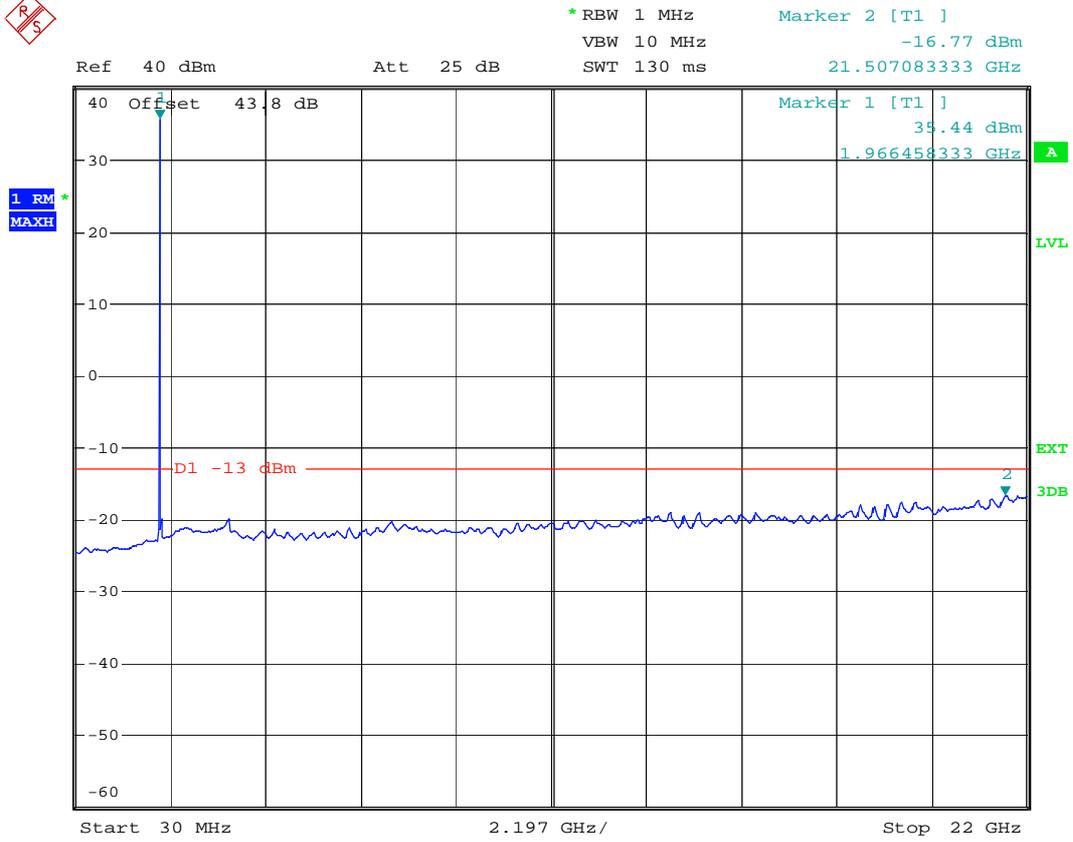
T channel



Date: 9.MAR.2010 16:50:05



Date: 9.MAR.2010 16:48:54



Date: 9.MAR.2010 16:46:40



Appendix F

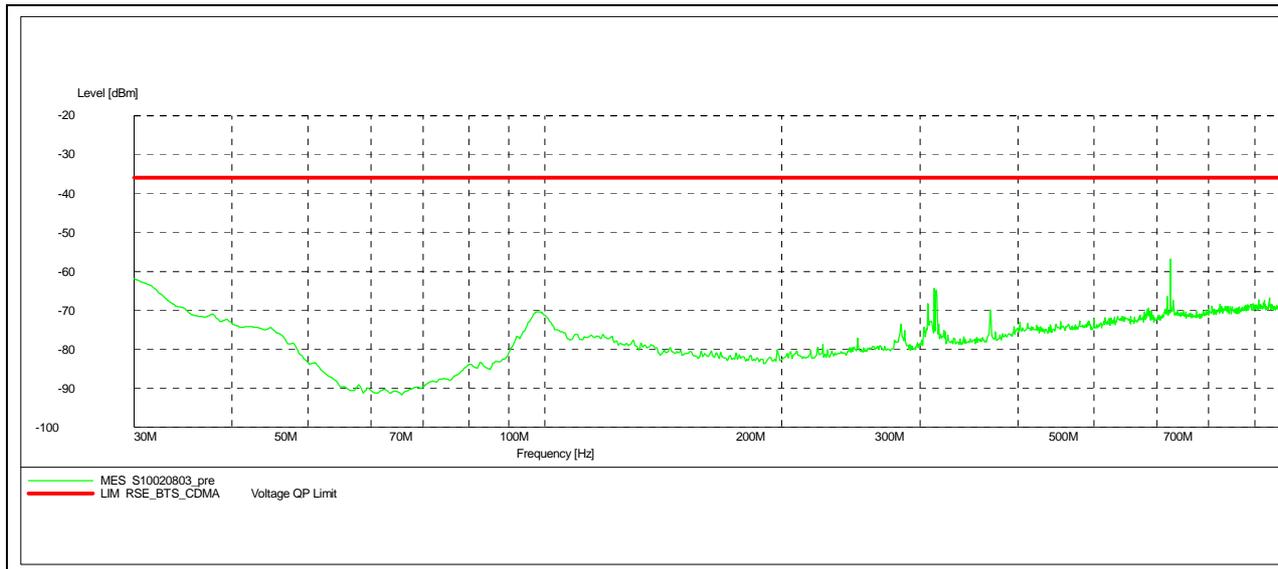
Field Strength of Spurious Radiation Measurement

According to FCC part 2.1053 and part 24.238



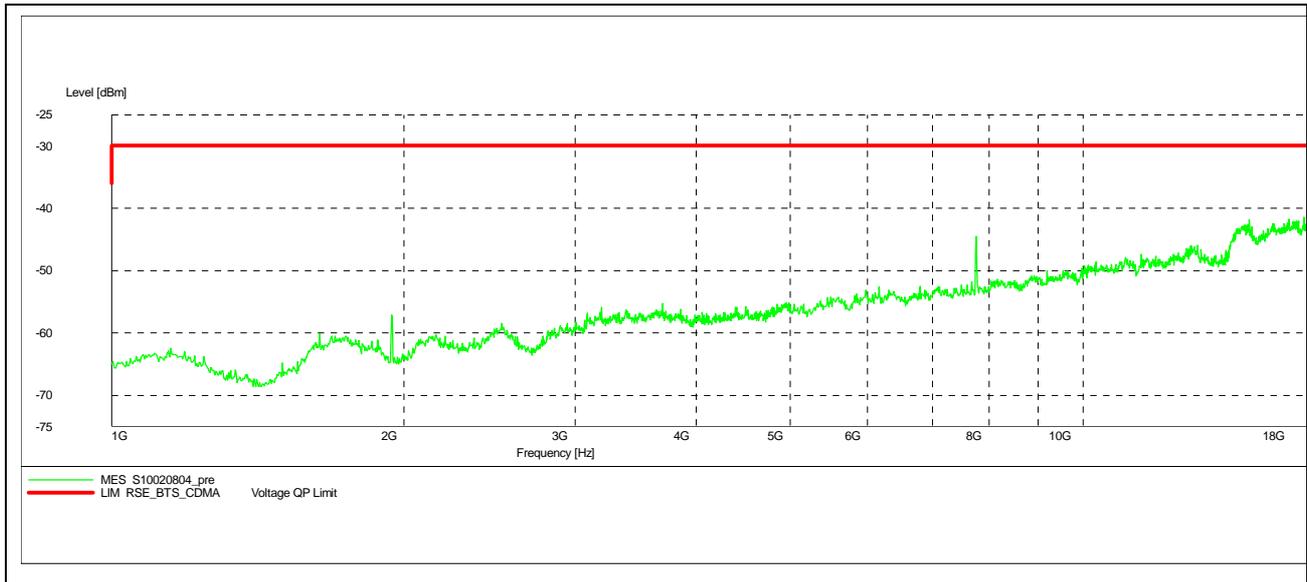
NOTE: a limit line that is stringent than FCC limit (-13dBm) is used in plot(s).

(1) Below 1GHz:





(2) Above 1GHz:





Appendix G

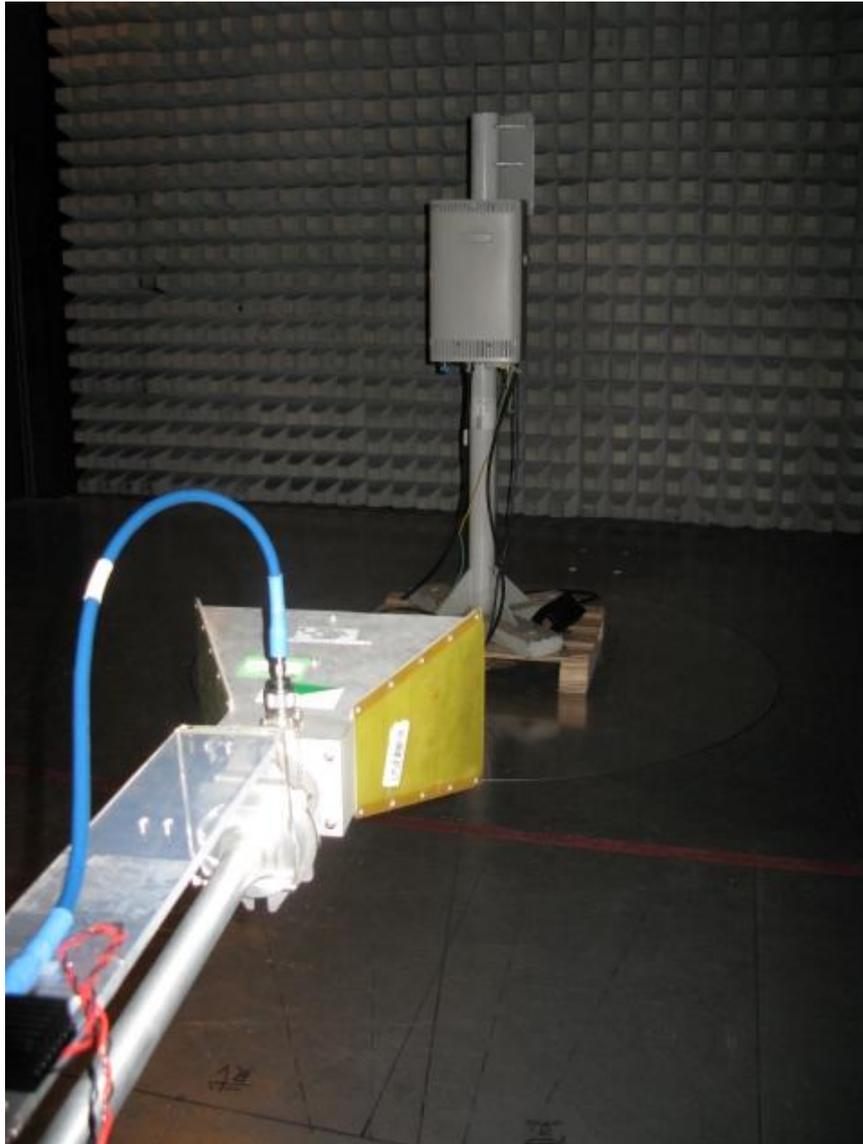
Photos of Test Setup

1. Photos for Radiated Spurious Emissions:

1) Radiated Spurious Disturbance (below 1GHz)



2) Radiated Spurious Disturbance (above 1GHz)



END