



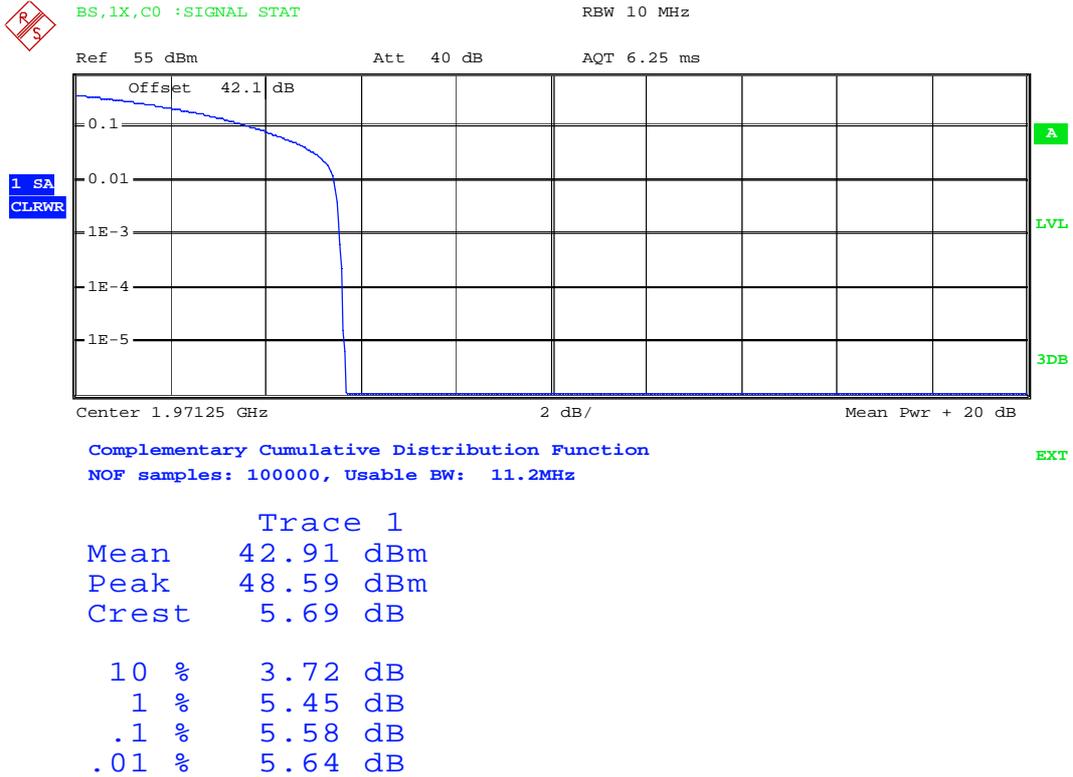
Appendix A

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



(1) 1X

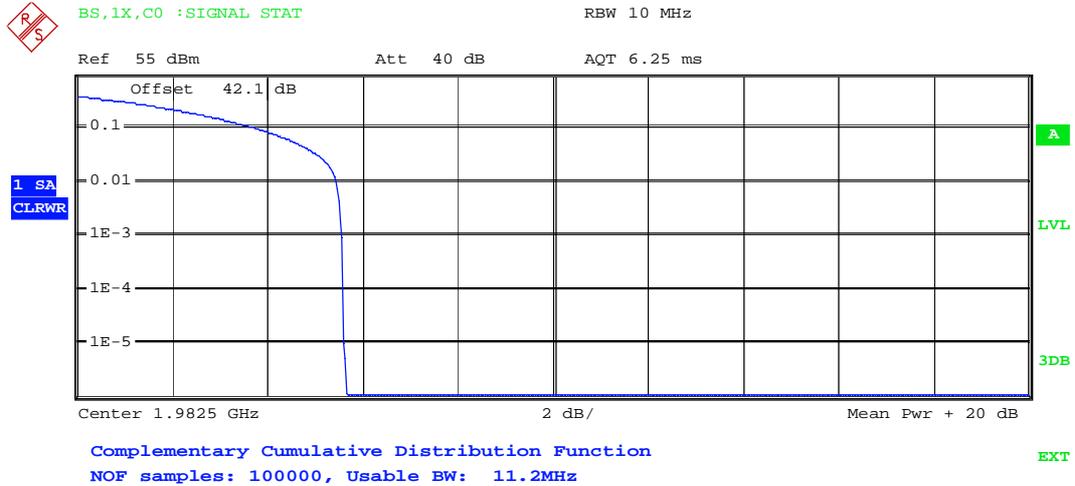
B channel



Date: 12.NOV.2009 14:49:01



M channel

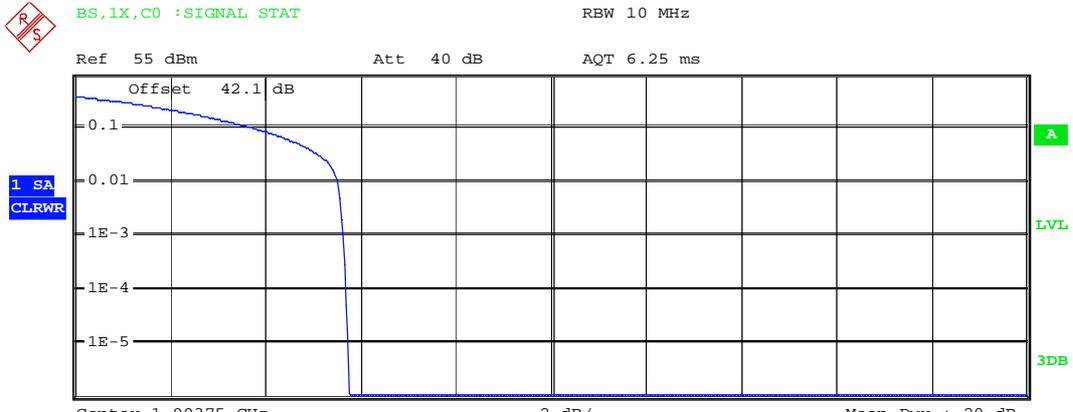


Trace 1	
Mean	42.87 dBm
Peak	48.53 dBm
Crest	5.67 dB
10 %	3.75 dB
1 %	5.45 dB
.1 %	5.58 dB
.01 %	5.61 dB

Date: 12.NOV.2009 14:51:12



T channel



Complementary Cumulative Distribution Function EXT

NOF samples: 100000, Usable BW: 11.2MHz

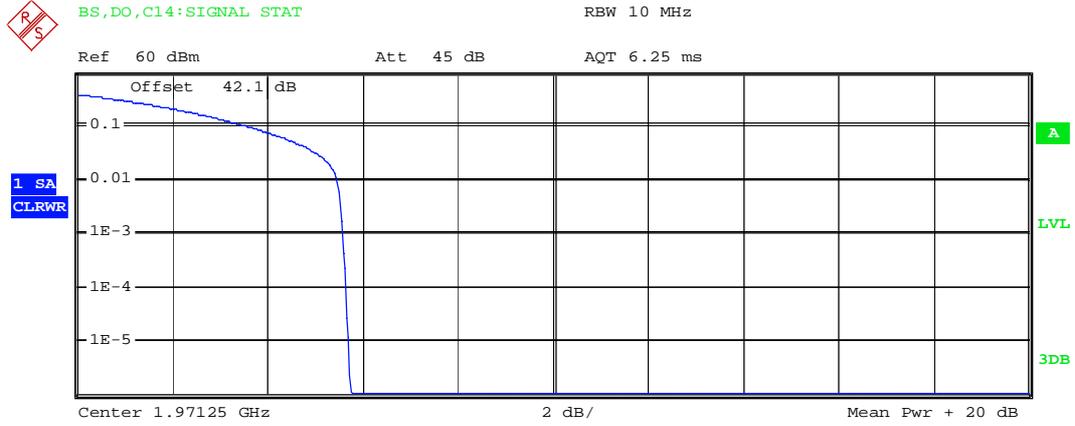
Trace 1	
Mean	43.15 dBm
Peak	48.90 dBm
Crest	5.74 dB
10 %	3.75 dB
1 %	5.51 dB
.1 %	5.64 dB
.01 %	5.71 dB

Date: 12.NOV.2009 14:52:26



(2) EVDO

B channel



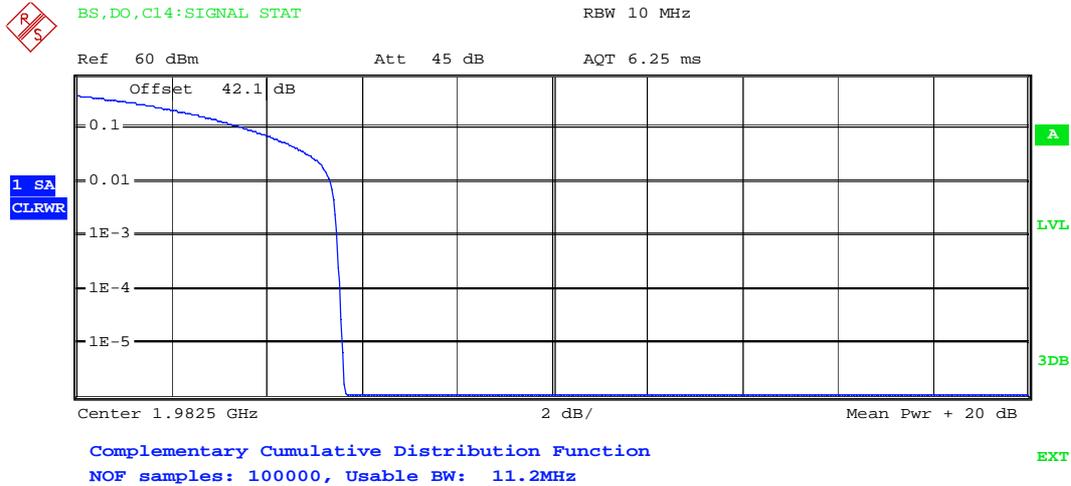
Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	43.00 dBm
Peak	48.74 dBm
Crest	5.74 dB
10 %	3.59 dB
1 %	5.45 dB
.1 %	5.61 dB
.01 %	5.67 dB

Date: 12.NOV.2009 16:42:08



M channel

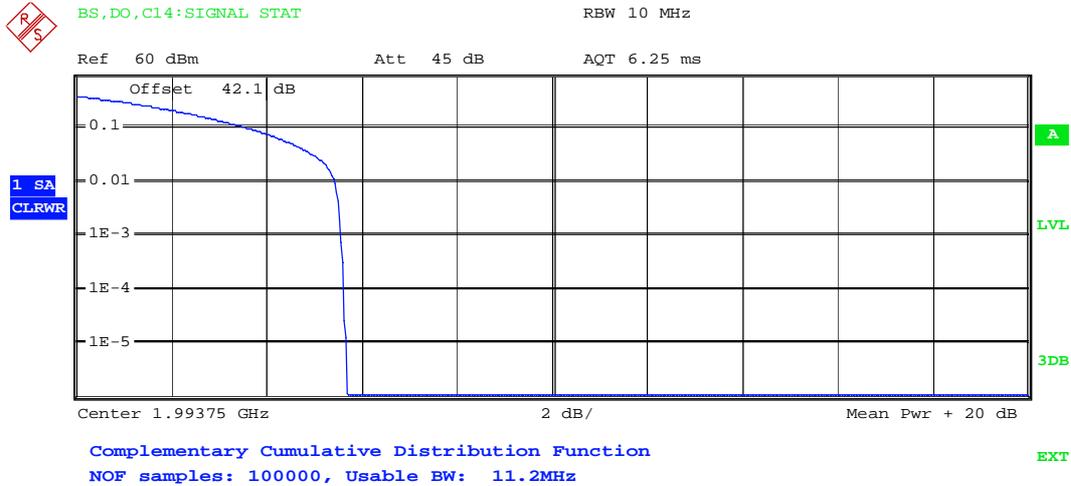


Trace 1	
Mean	42.95 dBm
Peak	48.60 dBm
Crest	5.64 dB
10 %	3.53 dB
1 %	5.35 dB
.1 %	5.48 dB
.01 %	5.54 dB

Date: 12.NOV.2009 17:02:37



T channel



Trace 1	
Mean	43.13 dBm
Peak	48.82 dBm
Crest	5.69 dB
10 %	3.62 dB
1 %	5.45 dB
.1 %	5.58 dB
.01 %	5.64 dB

Date: 12.NOV.2009 16:14:59



Appendix B

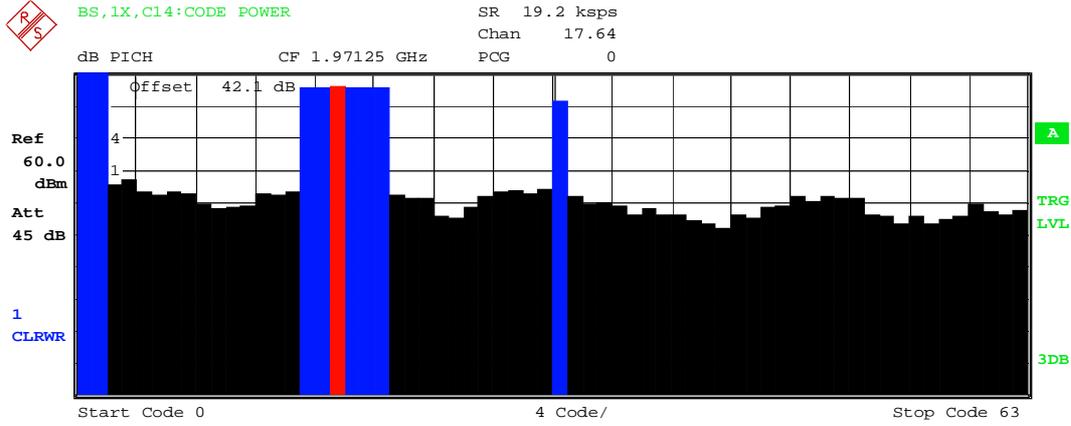
Modulation Characteristic Measurement

According to FCC part 2.1047 and part 24 subpart E



(1)RC1

B channel



RESULT SUMMARY TABLE SR 19.2 kbps
 Chan 17.64
 Offset 42.1 dB CF 1.97125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:		
Ref	Total PWR	42.68 dBm	Carr Freq Error	-2.22 Hz
60.0 dBm	Pilot PWR	35.67 dBm	Carr Freq Error	-0.00 ppm
	RHO	0.98044	Chip Rate Error	-0.10 ppm
Att	Composite EVM	14.12 %	Trg to Frame	-156.907603 ns
45 dB	Pk CDE (SF 64)	-30.37 dB	Active Channels	9
	IQ Imbal/Offset	1.11/0.15 %		
CHANNEL RESULTS:		Modulation		BPSK
1	Symbol Rate	19.2 kbps	Timing Offset	-.-- ns
CLRWR	Channel.SF	17.64	Phase Offset	-.-- mrad
	Channel Power Rel	-3.23 dB	Channel Power Abs	32.43 dBm
	Symbol EVM	7.44 % rms	Symbol EVM	16.27 % Pk

Date: 12.NOV.2009 15:12:18



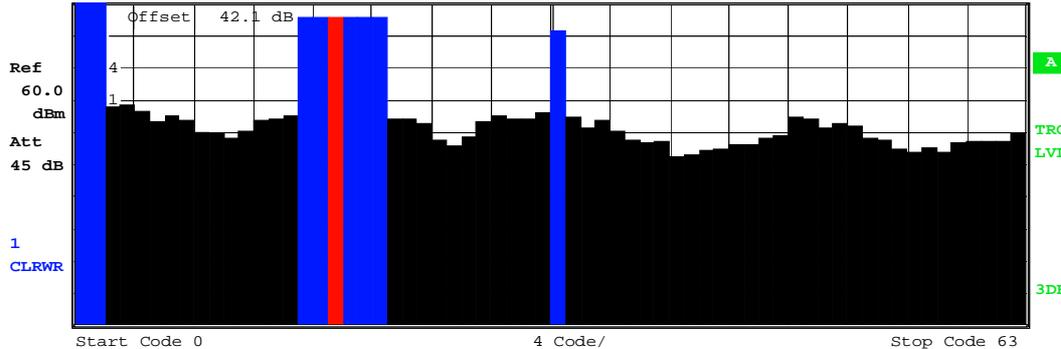
M channel



BS, 1X, C14: CODE POWER

SR 19.2 kbps
 Chan 17.64
 PCG 0

dB P1CH CF 1.9825 GHz



RESULT SUMMARY TABLE

SR 19.2 kbps
 Chan 17.64
 PCG 0

Offset 42.1 dB CF 1.9825 GHz

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	42.57 dBm	Carr Freq Error	-2.70 Hz
Pilot PWR	35.51 dBm	Carr Freq Error	-0.00 ppm
RHO	0.97688	Chip Rate Error	-0.01 ppm
Composite EVM	15.38 %	Trg to Frame	-166.601623 ns
Pk CDE (SF 64)	-29.43 dB	Active Channels	9
IQ Imbal/Offset	1.33/0.26 %		
CHANNEL RESULTS:		Modulation BPSK	
Symbol Rate	19.2 kbps	Timing Offset	-. ns
Channel.SF	17.64	Phase Offset	-. mrad
Channel Power Rel	-3.29 dB	Channel Power Abs	32.22 dBm
Symbol EVM	7.86 % rms	Symbol EVM	12.94 % Pk

Date: 12.NOV.2009 15:08:31



T channel



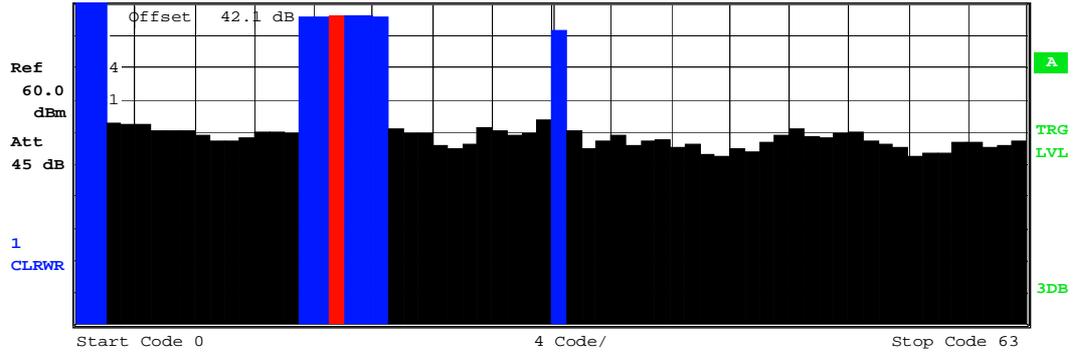
BS,1X,C14:CODE POWER

SR 19.2 ksps

Chan 17.64

dB PICH CF 1.99375 GHz

PCG 0



RESULT SUMMARY TABLE

SR 19.2 ksps

Chan 17.64

Offset 42.1 dB CF 1.99375 GHz

PCG 0

EXT

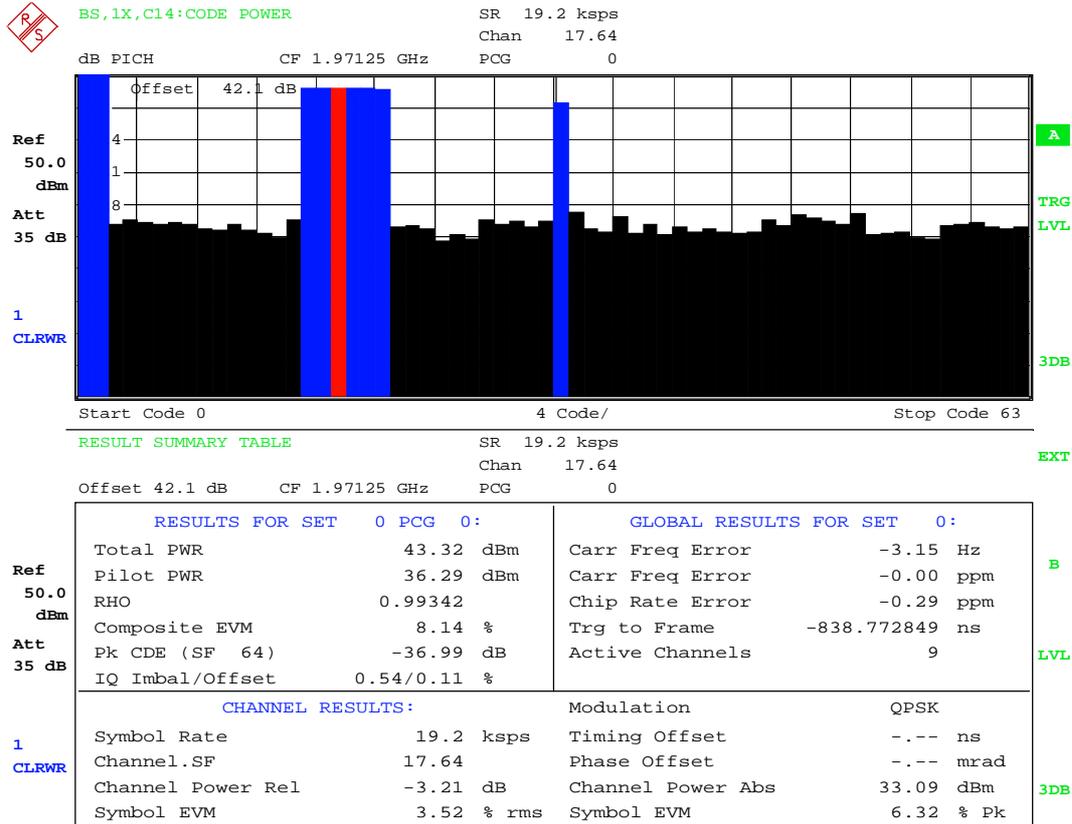
RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.17 dBm	Carr Freq Error	7.54 Hz
Pilot PWR	36.13 dBm	Carr Freq Error	0.00 ppm
RHO	0.98570	Chip Rate Error	-0.31 ppm
Composite EVM	12.04 %	Trg to Frame	-155.256572 ns
Pk CDE (SF 64)	-32.78 dB	Active Channels	9
IQ Imbal/Offset	0.47/0.28 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	17.64	Timing Offset	-. - ns
Channel Power Rel	-3.24 dB	Phase Offset	-. - mrad
Channel Power Abs	32.89 dBm	Channel Power Abs	32.89 dBm
Symbol EVM	5.46 % rms	Symbol EVM	11.69 % Pk

Date: 12.NOV.2009 14:58:20



(2) RC3

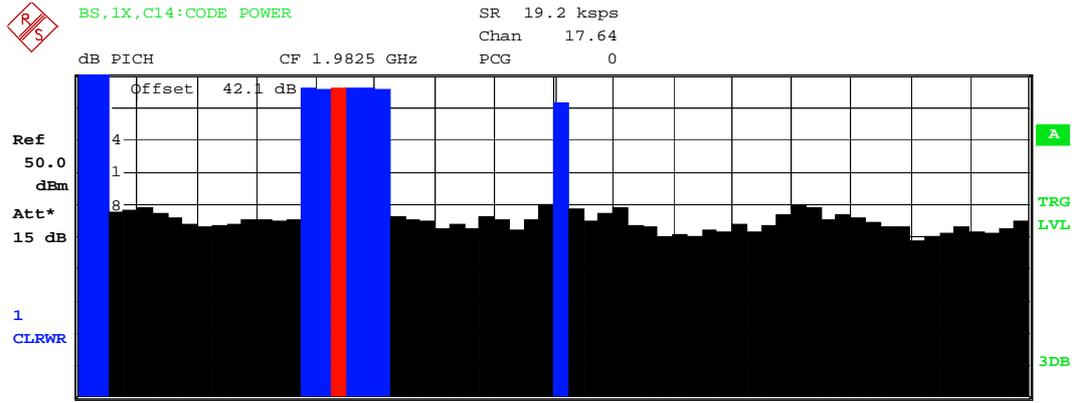
B channel



Date: 11.NOV.2009 14:54:02



M channel



RESULT SUMMARY TABLE
 SR 19.2 kbps
 Chan 17.64
 Offset 42.1 dB CF 1.9825 GHz PCG 0

EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	42.92 dBm	Carr Freq Error	7.15 Hz
Pilot PWR	35.89 dBm	Carr Freq Error	0.00 ppm
RHO	0.99144	Chip Rate Error	-0.36 ppm
Composite EVM	9.29 %	Trg to Frame	-848.179070 ns
Pk CDE (SF 64)	-35.49 dB	Active Channels	9
IQ Imbal/Offset	0.28/0.23 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps	Timing Offset	--- ns
Channel.SF	17.64	Phase Offset	--- mrad
Channel Power Rel	-3.22 dB	Channel Power Abs	32.66 dBm
Symbol EVM	4.57 % rms	Symbol EVM	7.69 % Pk

B
 LVL
 3DB

Date: 11.NOV.2009 16:28:58

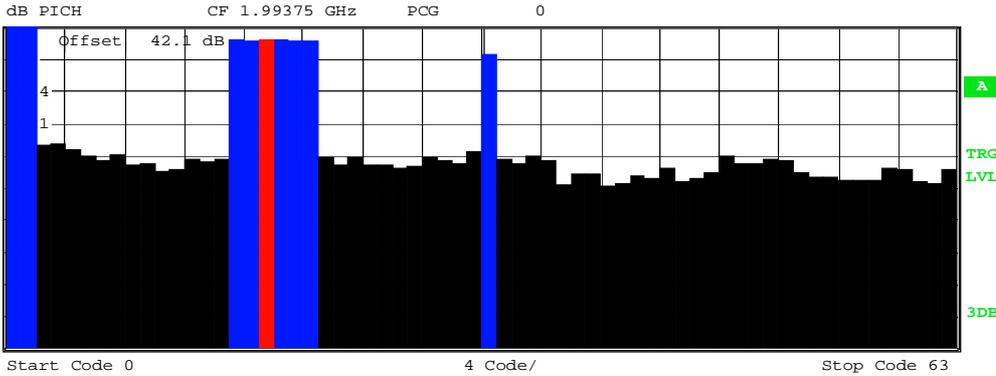


T channel



BS,1X,C14:CODE POWER

SR 19.2 kbps
 Chan 17.64
 PCG 0



RESULT SUMMARY TABLE

SR 19.2 kbps
 Chan 17.64
 Offset 42.1 dB CF 1.99375 GHz PCG 0

EXT

Ref
 50.0
 dBm
 Att*
 15 dB

1
 CLRWR

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.09 dBm	Carr Freq Error	999.43 mHz
Pilot PWR	36.07 dBm	Carr Freq Error	0.00 ppm
RHO	0.98713	Chip Rate Error	0.92 ppm
Composite EVM	11.42 %	Trg to Frame	-845.913007 ns
Pk CDE (SF 64)	-32.73 dB	Active Channels	9
IQ Imbal/Offset	0.58/0.14 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps	Modulation	QPSK
Channel.SF	17.64	Timing Offset	-.-. ns
Channel Power Rel	-3.28 dB	Phase Offset	-.-. mrad
Channel Power Abs	32.79 dBm	Channel Power Abs	32.79 dBm
Symbol EVM	6.16 % rms	Symbol EVM	10.39 % Pk

B

LVL

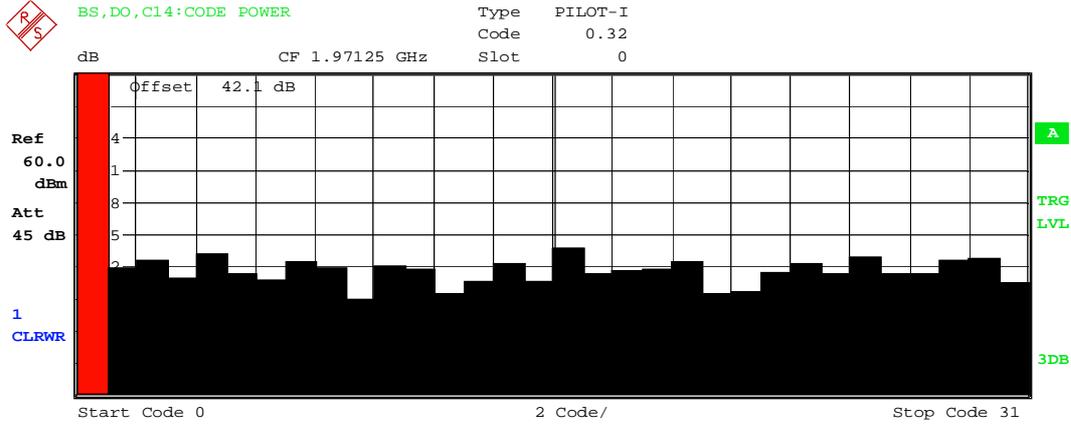
3DB

Date: 11.NOV.2009 16:21:04



(3) EVDO

B channel



GENERAL RESULTS		Type	ALL	EXT
Offset 42.1 dB		CF 1.97125 GHz		
Global Results for Set 0:				
Ref	Carr Freq Error	1.51 Hz	RHO Pilot	0.99654
60.0 dBm	Carr Freq Error	0.00 ppm	RHO ov-1/-2	0.99313/0.99294
	Chip Rate Error	-0.05 ppm	RHO MAC	0.99665
	Trg to Frame	-396.146561 ns	RHO DATA	0.99176
Results for Set 0 / Slot 0:				
Att	Power PILOT	43.22 dBm	Data Modulation Type	16-QAM
45 dB	Power MAC	43.11 dBm	Act. MAC Channels	18
	Power DATA	42.99 dBm	Act. DATA Channels	16
1	Power PREAMBLE	43.24 dBm	Preamble Length	64 Chips
CLRWR	Composite EVM	8.54 %	RHO	0.99276
	Max. Pwr DATA	-14.38 dB	Max. inact. Pwr MAC	-40.36 dB
	Min. Pwr DATA	-16.03 dB		

Date: 12.NOV.2009 16:41:28



T channel

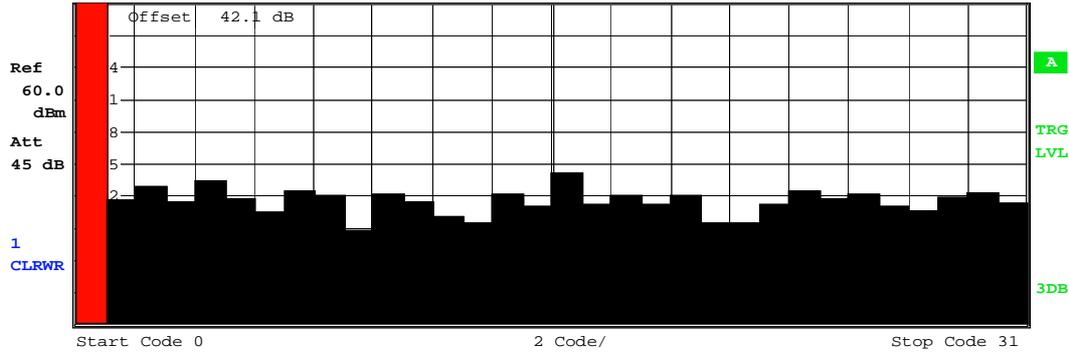


BS,DO,C14:CODE POWER

Type PILOT-I

Code 0.32

dB CF 1.99375 GHz Slot 0



GENERAL RESULTS

Type ALL

EXT

Offset 42.1 dB CF 1.99375 GHz

Global Results for Set 0:			
Ref	Carr Freq Error	-837.97 mHz	RHO Pilot 0.99657
60.0	Carr Freq Error	-0.00 ppm	RHO ov-1/-2 0.99145/0.99169
dBm	Chip Rate Error	0.02 ppm	RHO MAC 0.99485
	Trg to Frame	-398.097711 ns	RHO DATA 0.99041
Results for Set 0 / Slot 0:			
Att	Power PILOT	43.27 dBm	Data Modulation Type 16-QAM
45 dB	Power MAC	43.12 dBm	Act. MAC Channels 20
	Power DATA	42.93 dBm	Act. DATA Channels 16
1	Power PREAMBLE	43.33 dBm	Preamble Length 64 Chips
CLRWR	Composite EVM	9.67 %	RHO 0.99074
	Max. Pwr DATA	-14.34 dB	Max. inact. Pwr MAC -40.11 dB
	Min. Pwr DATA	-15.76 dB	

Date: 12.NOV.2009 16:14:03



Appendix C

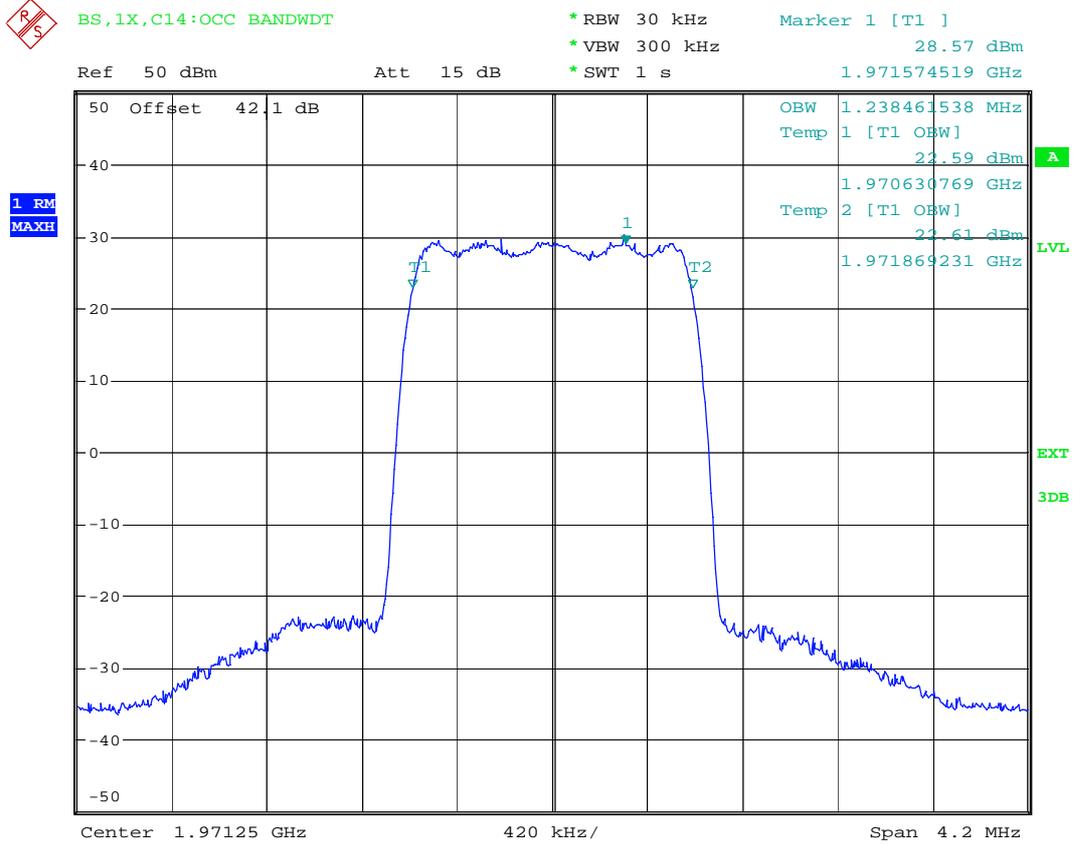
Occupied Bandwidth Measurement

According to FCC part 2.1049 and part 24 subpart E



(1) 1X

B channel



Date: 11.NOV.2009 14:57:33



M channel



BS,1X,C14:OCC BANDWDT

*RBW 30 kHz
 *VBW 300 kHz
 *SWT 1 s

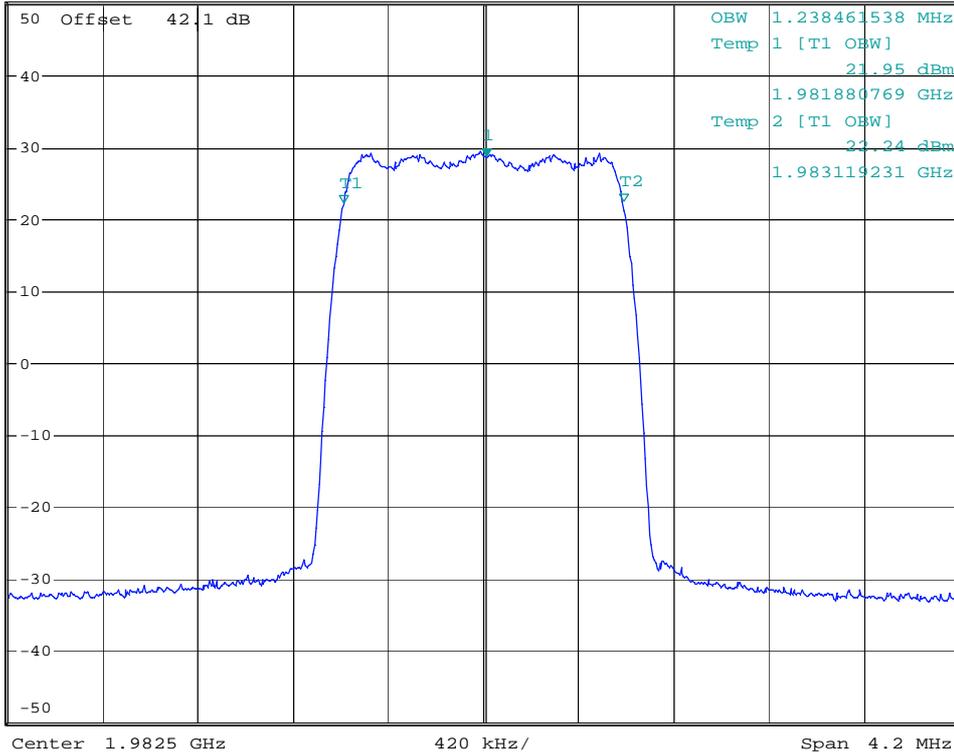
Marker 1 [T1]

28.51 dBm

Ref 50 dBm

*Att 15 dB

1.982516346 GHz



Date: 11.NOV.2009 16:30:40



T channel



BS,1X,C14:OCC BANDWDT

*RBW 30 kHz

Marker 1 [T1]

*VBW 300 kHz

27.46 dBm

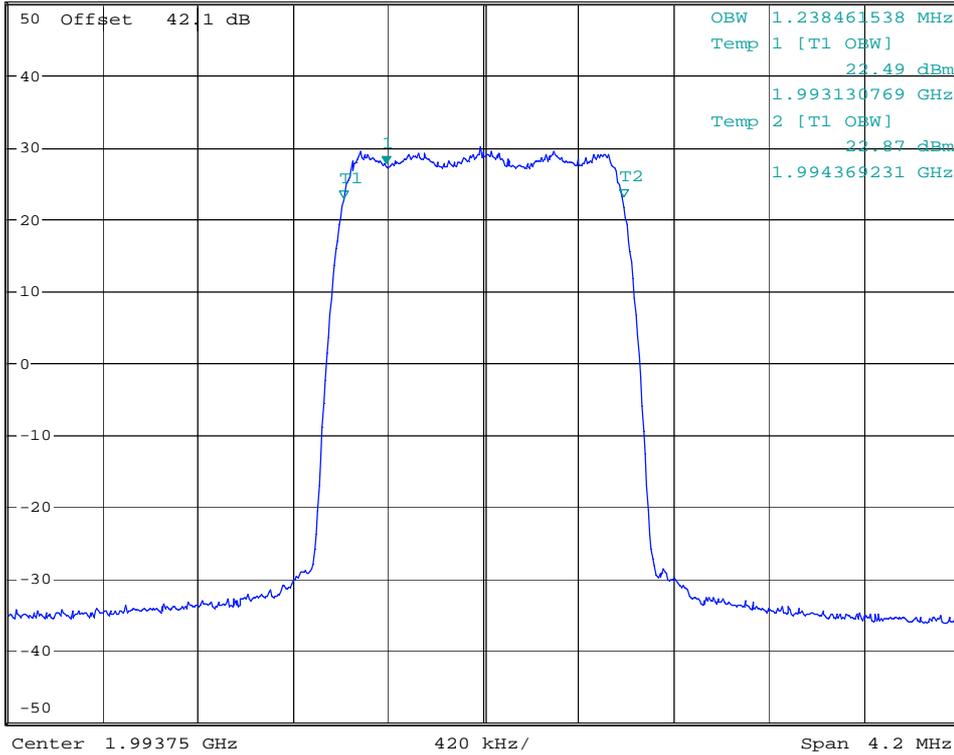
*SWT 1 s

1.993317308 GHz

Ref 50 dBm

*Att 15 dB

1 RM
MAXH

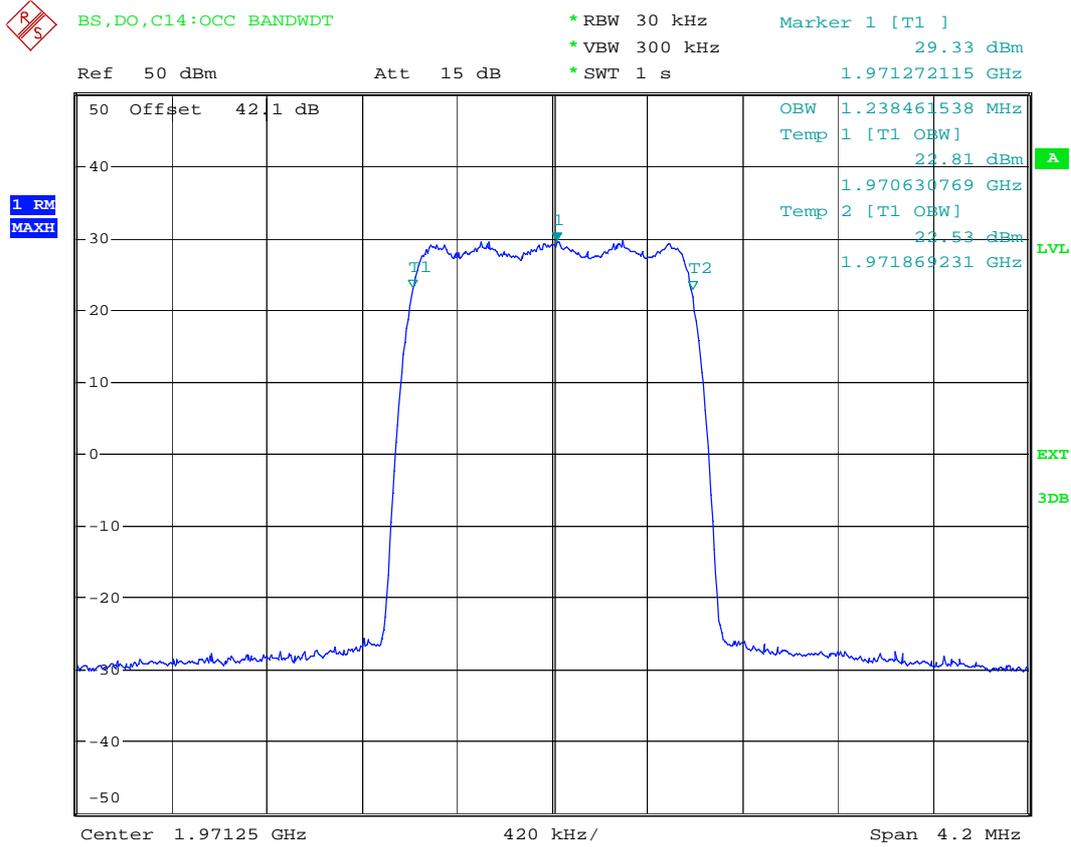


Date: 11.NOV.2009 16:22:04



(2) EVDO

B channel



Date: 12.NOV.2009 16:43:45



M channel



BS,DO,C14:OCC BANDWDT

* RBW 30 kHz
 * VBW 300 kHz
 * SWT 1 s

Marker 1 [T1]

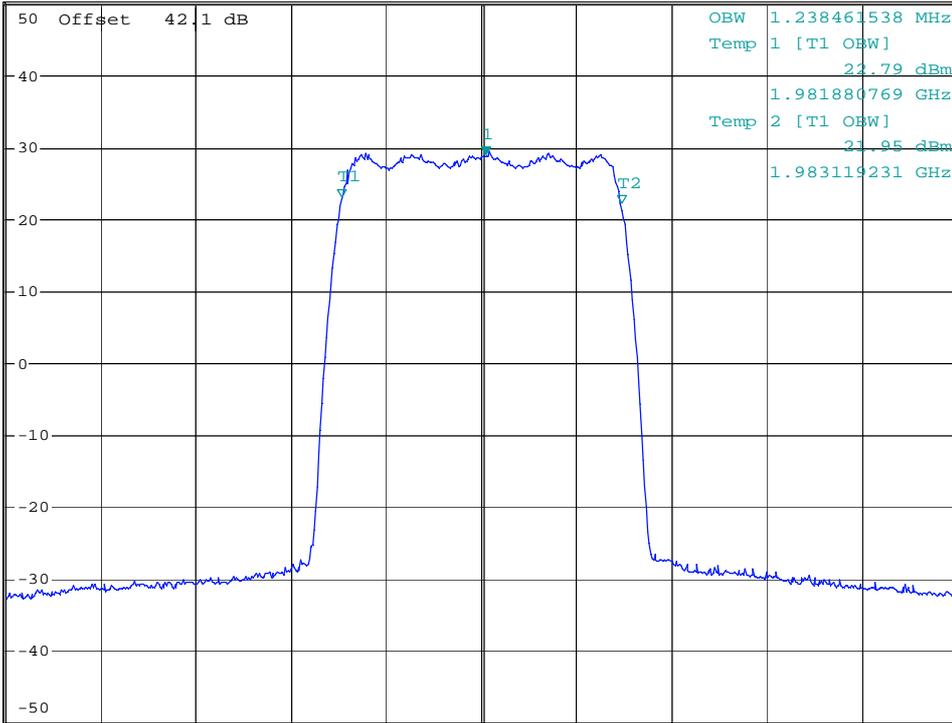
28.62 dBm

1.982520192 GHz

Ref 50 dBm

Att 15 dB

1 RM
 MAXH



Center 1.9825 GHz

420 kHz/

Span 4.2 MHz

Date: 12.NOV.2009 16:57:03



T channel



BS,DO,C14:OCC BANDWDT

* RBW 30 kHz
 * VBW 300 kHz
 * SWT 1 s

Marker 1 [T1]

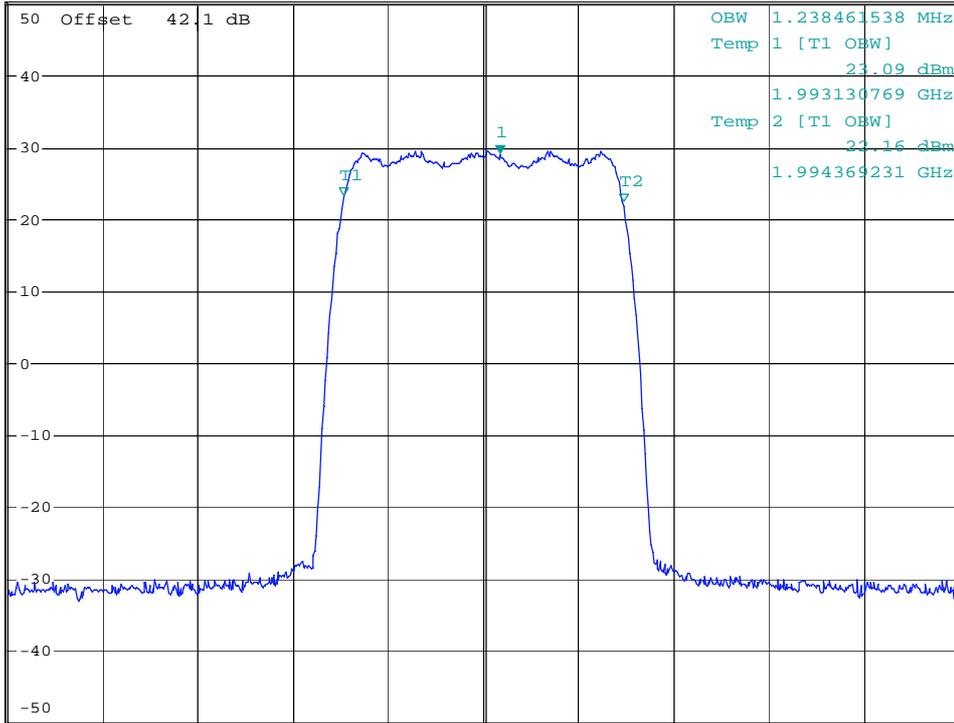
28.86 dBm

1.993822115 GHz

Ref 50 dBm

Att 15 dB

1 RM
 MAXH



Center 1.99375 GHz

420 kHz/

Span 4.2 MHz

Date: 12.NOV.2009 16:16:18



Appendix D

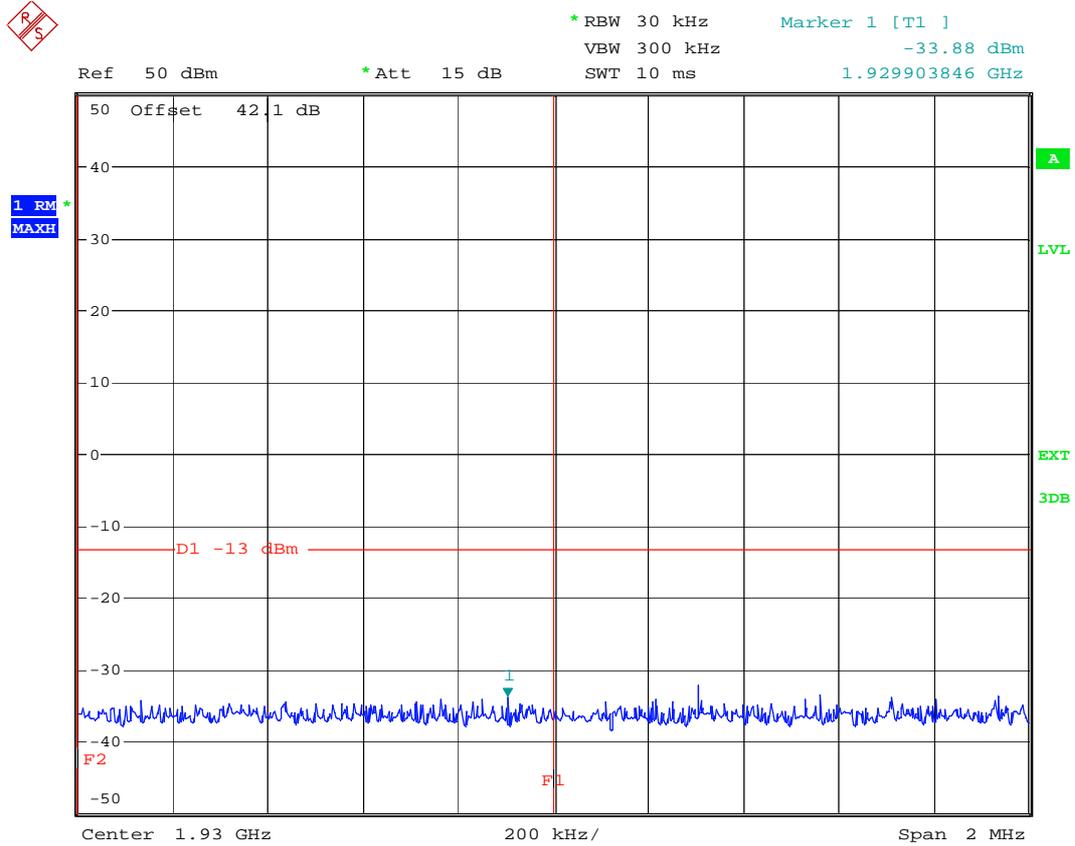
Band Edge Measurement

According to FCC part 2.1051 and part 24.238



(1) 1X One Carrier

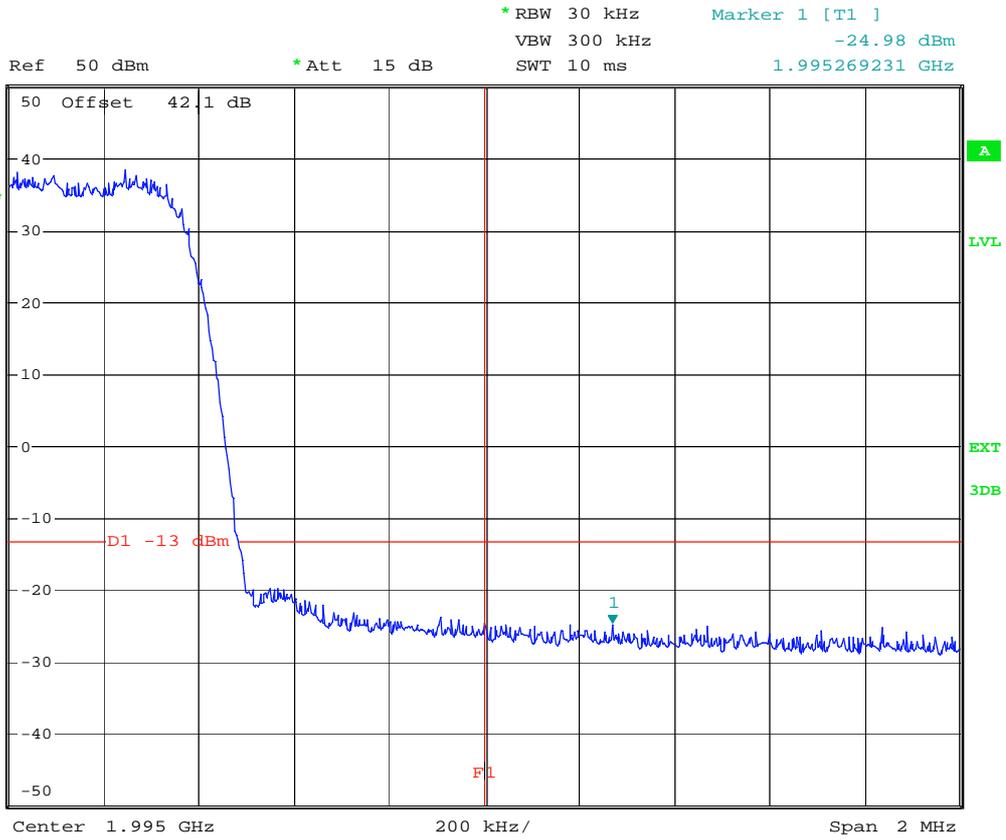
B channel



Date: 11.NOV.2009 15:04:43



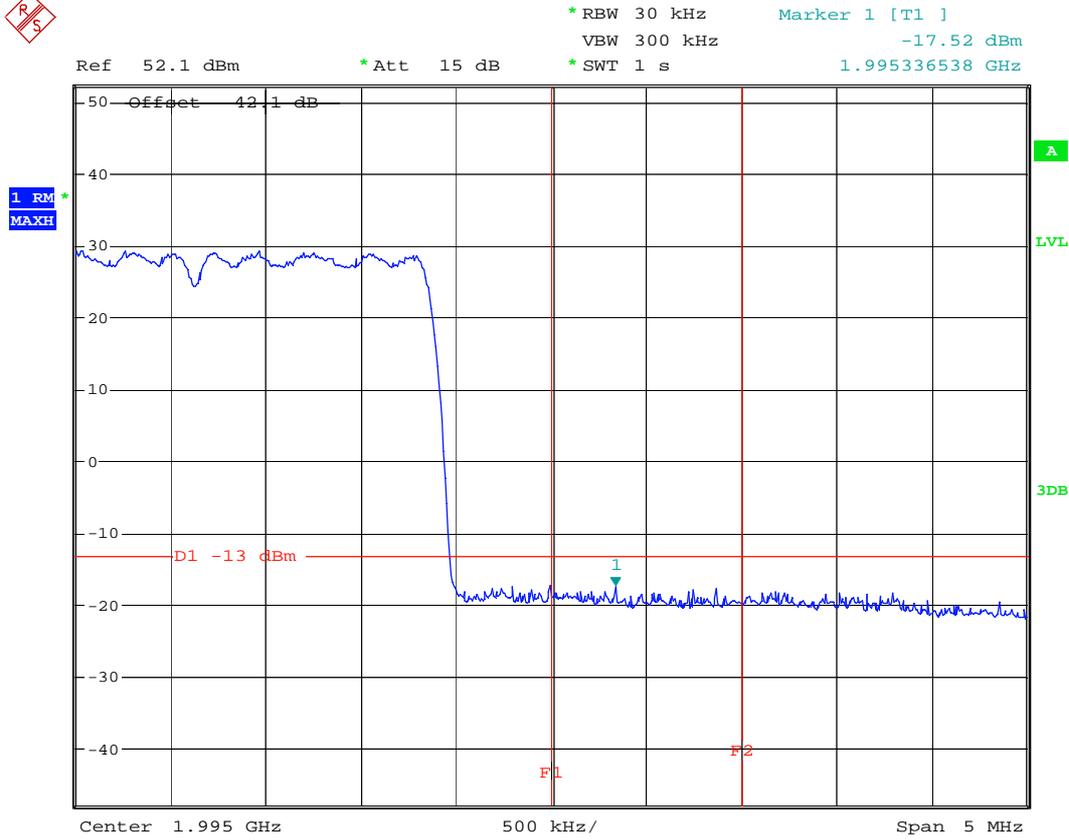
T channel



Date: 11.NOV.2009 16:18:55



T channel

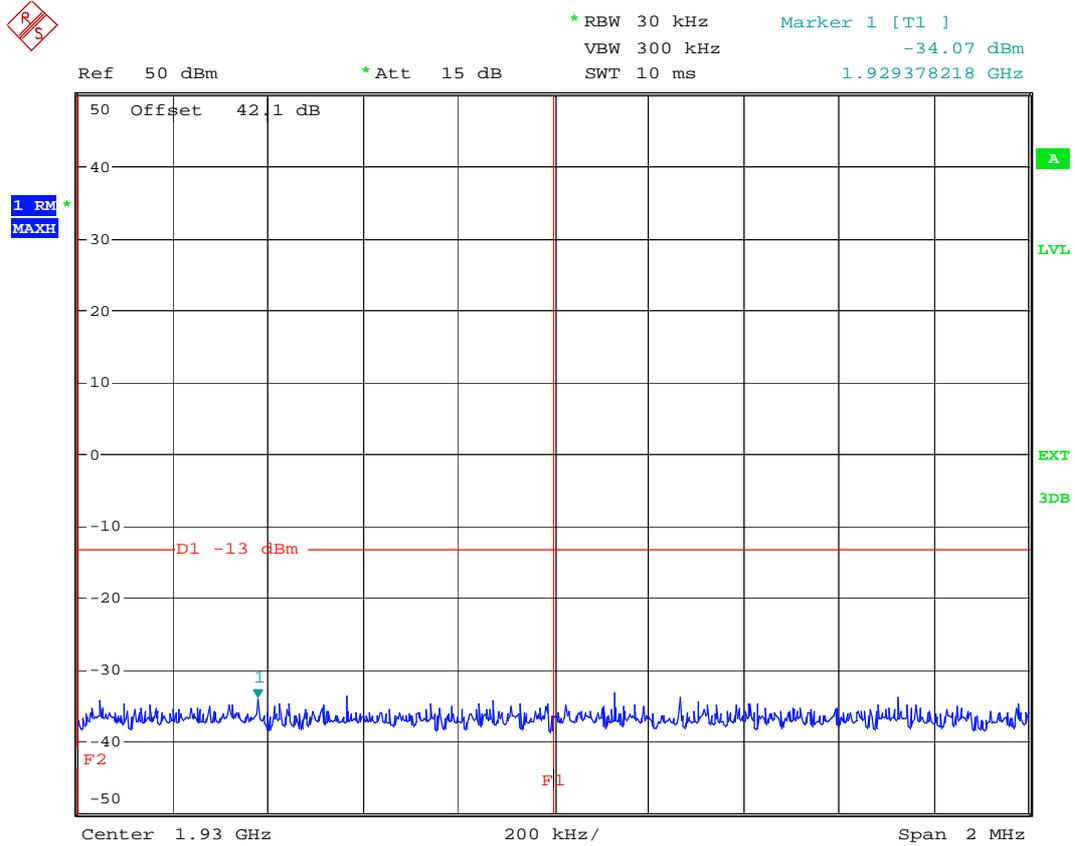


Date: 12.NOV.2009 14:11:18



(3) EVDO One Carrier

B channel



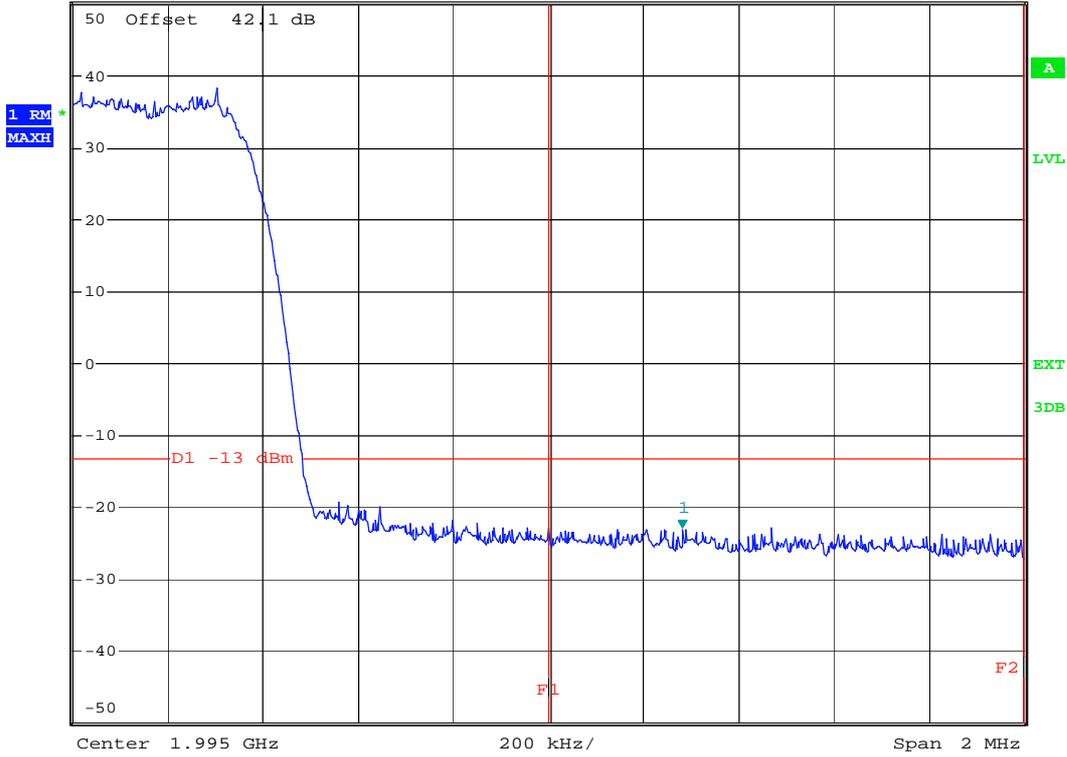
Date: 12.NOV.2009 16:37:46



T channel



Ref 50 dBm *Att 15 dB *RBW 30 kHz Marker 1 [T1]
VBW 300 kHz -23.20 dBm
SWT 10 ms 1.995282051 GHz

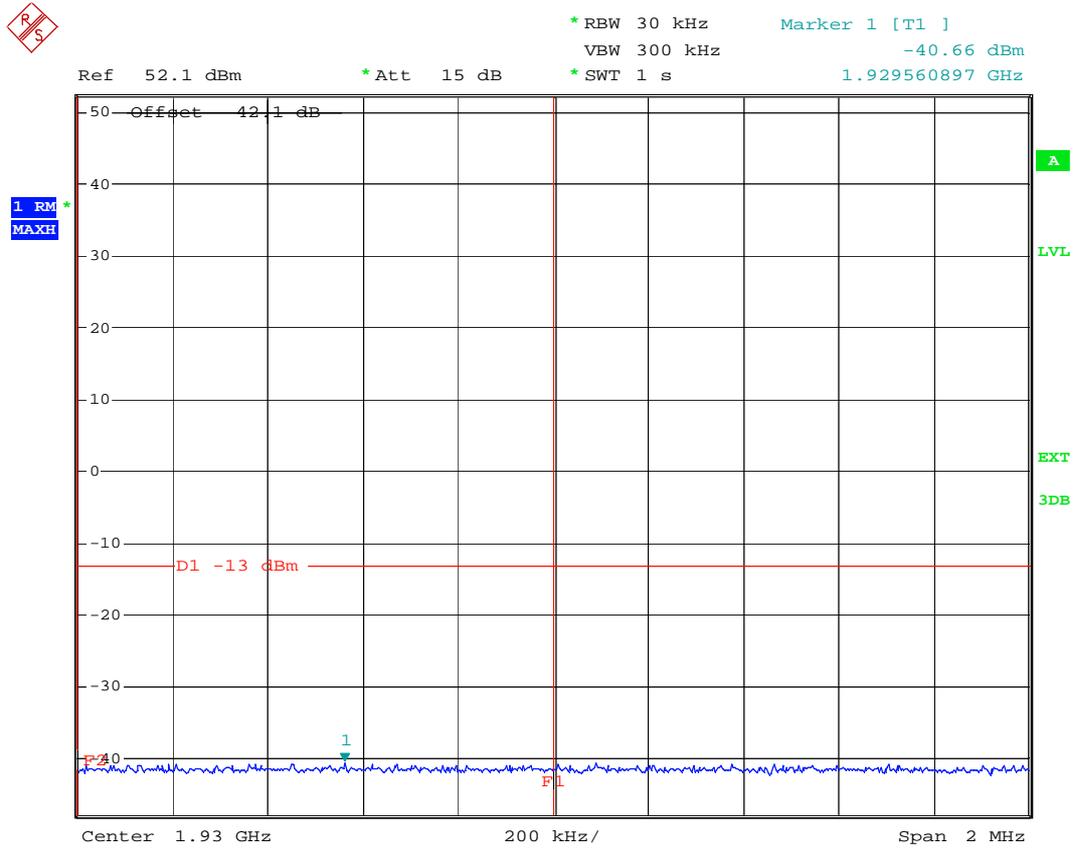


Date: 12.NOV.2009 16:18:43



(4) EVDO Four Carriers

B channel



Date: 12.NOV.2009 19:00:32



Appendix E

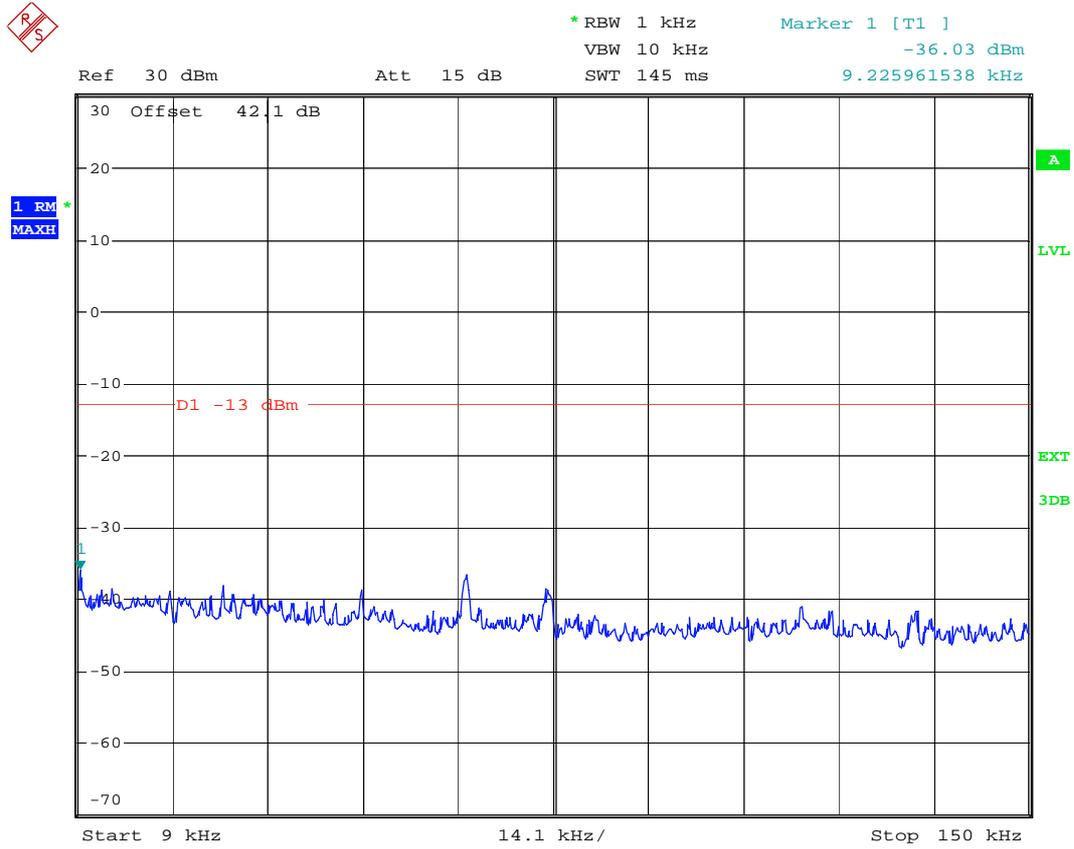
Spurious Emission at Antenna Terminal Measurement

According to FCC part 2.1051 and part 24.238

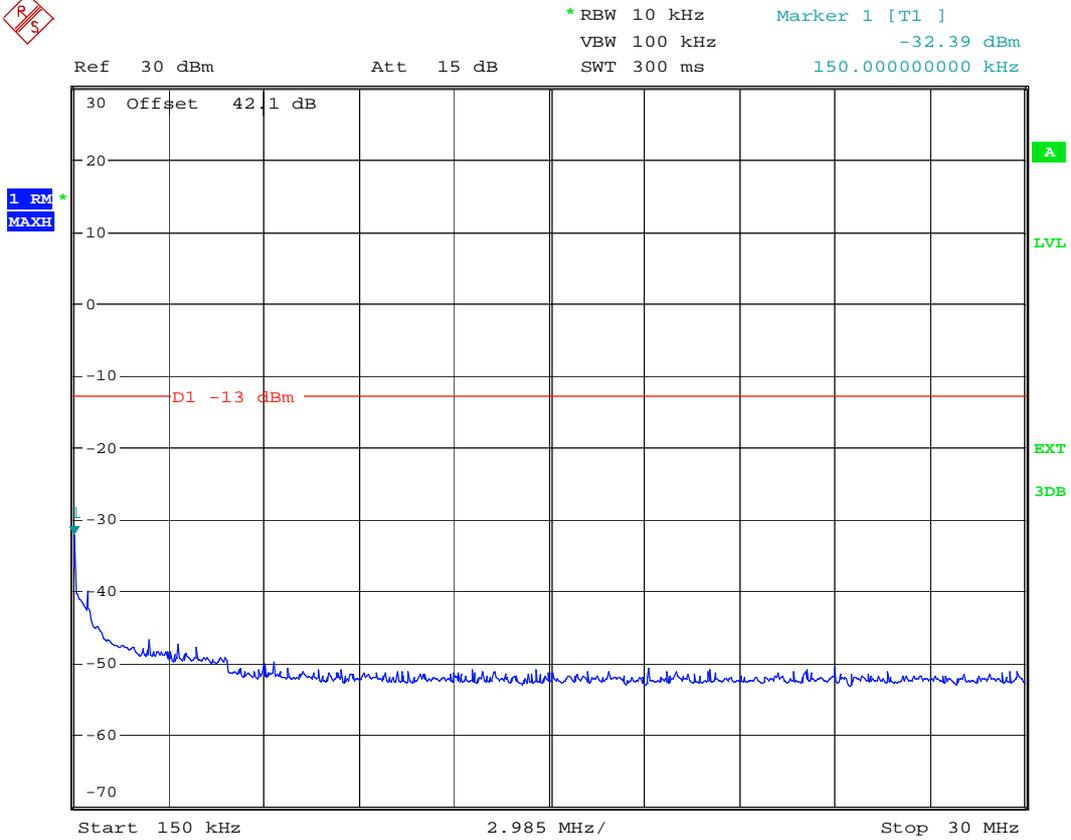


(1) 1X One Carrier

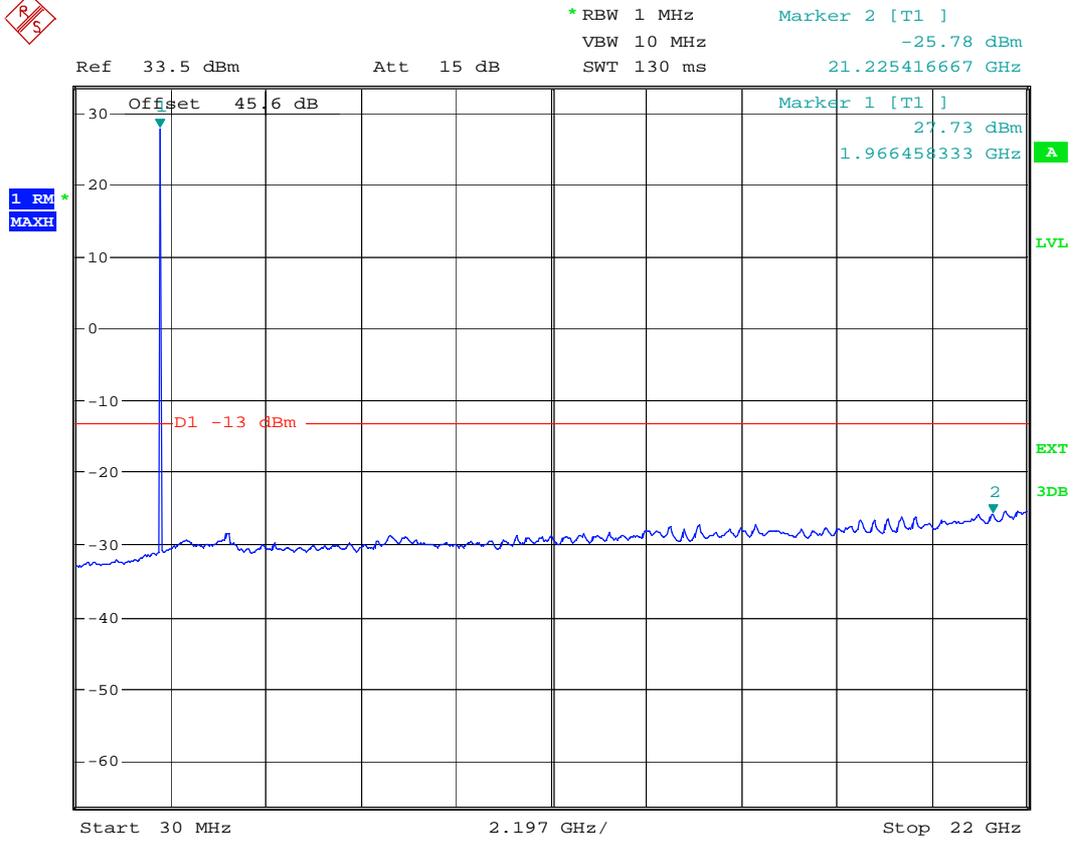
B channel



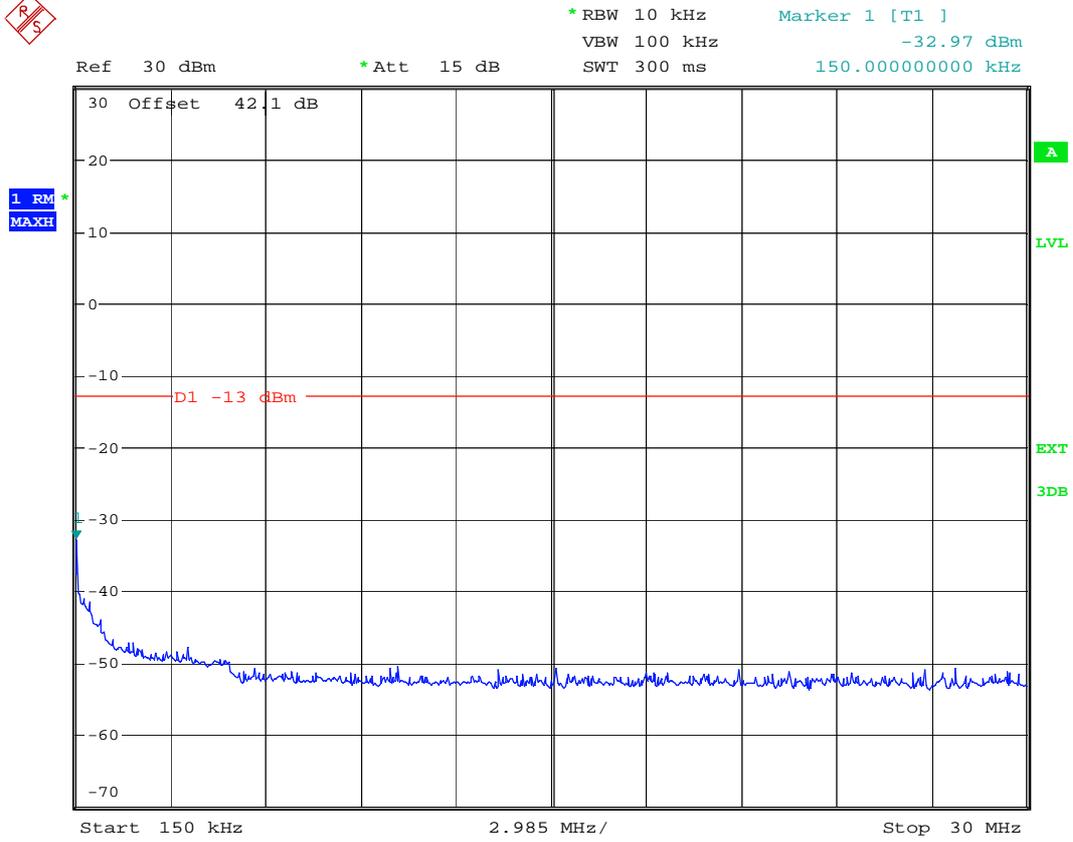
Date: 11.NOV.2009 15:05:43



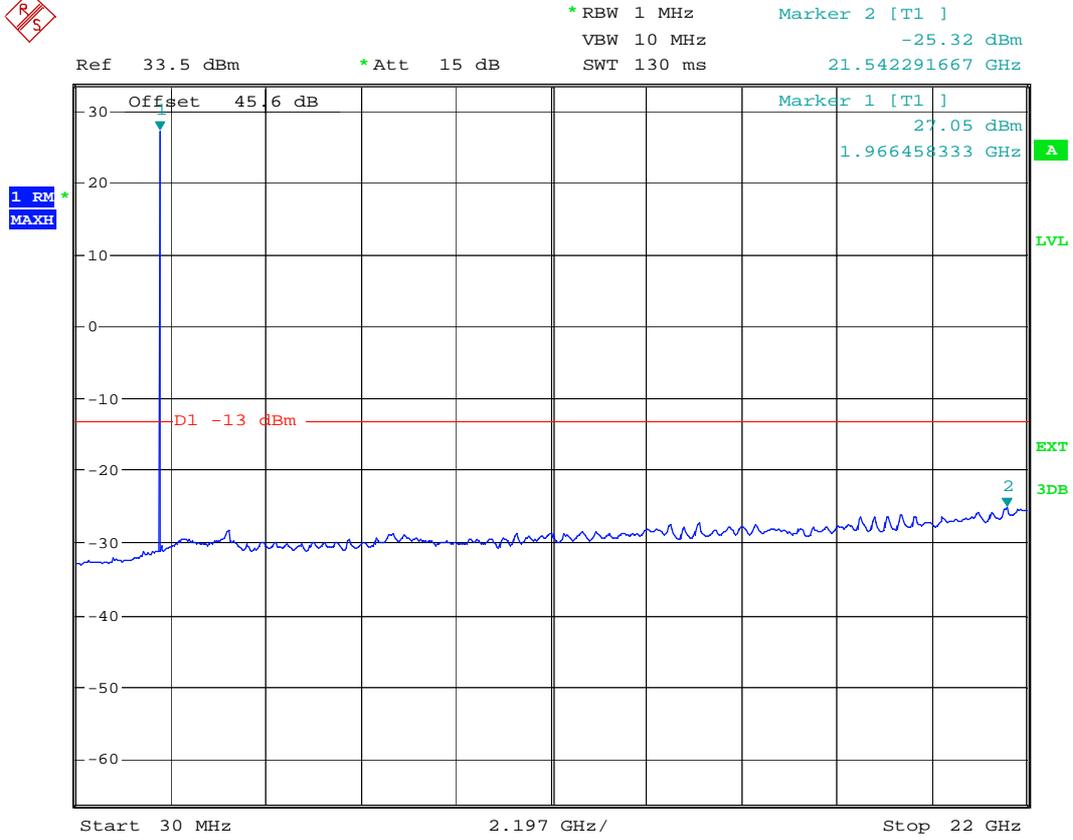
Date: 11.NOV.2009 15:12:56



Date: 11.NOV.2009 15:19:36



Date: 11.NOV.2009 16:51:49



Date: 11.NOV.2009 16:48:03



T channel

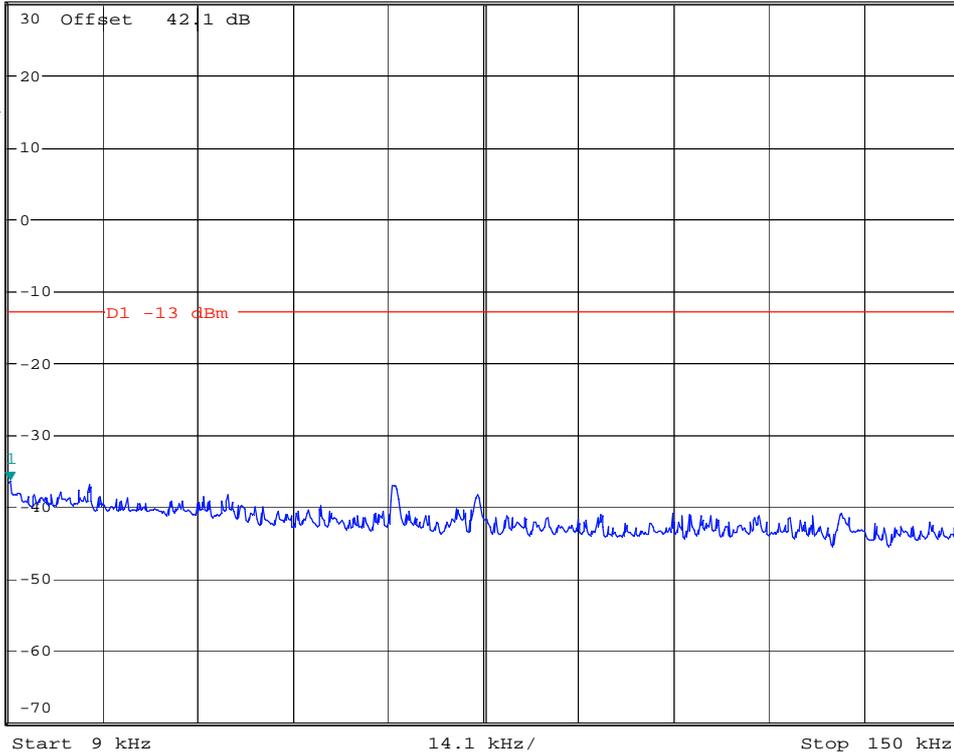


*RBW 1 kHz
VBW 10 kHz
SWT 145 ms

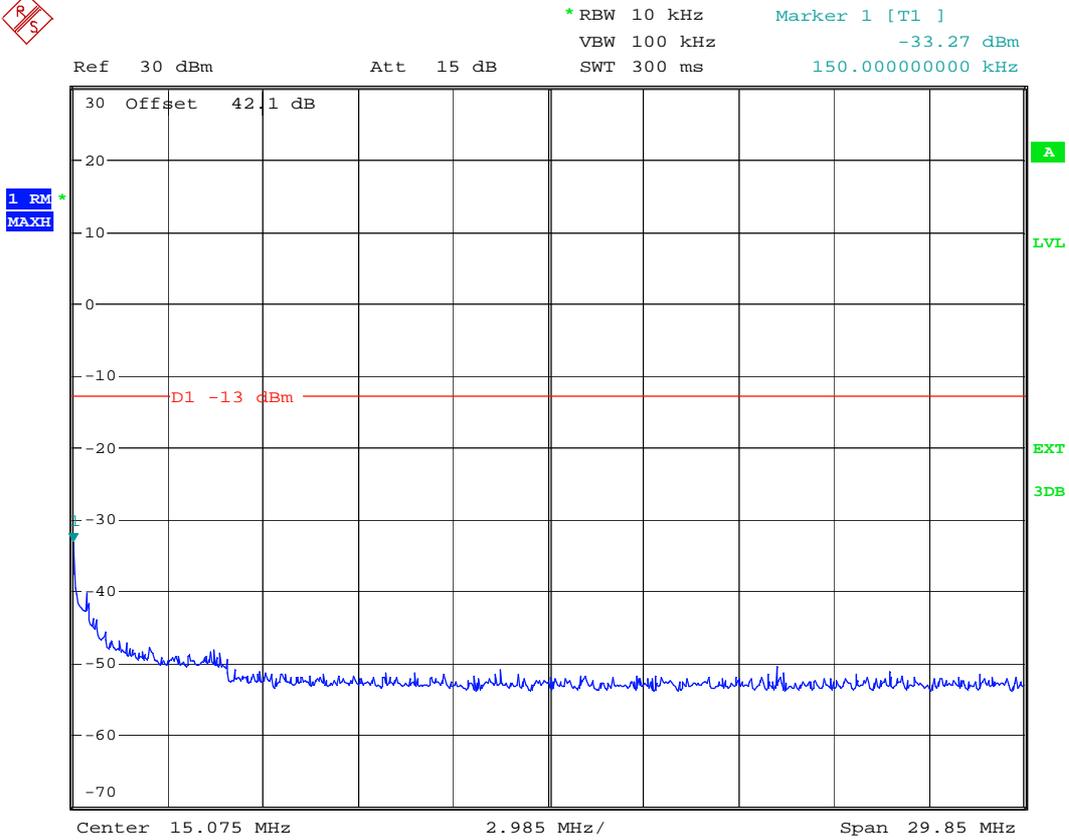
Marker 1 [T1]
-36.53 dBm
9.225961538 kHz

Ref 30 dBm

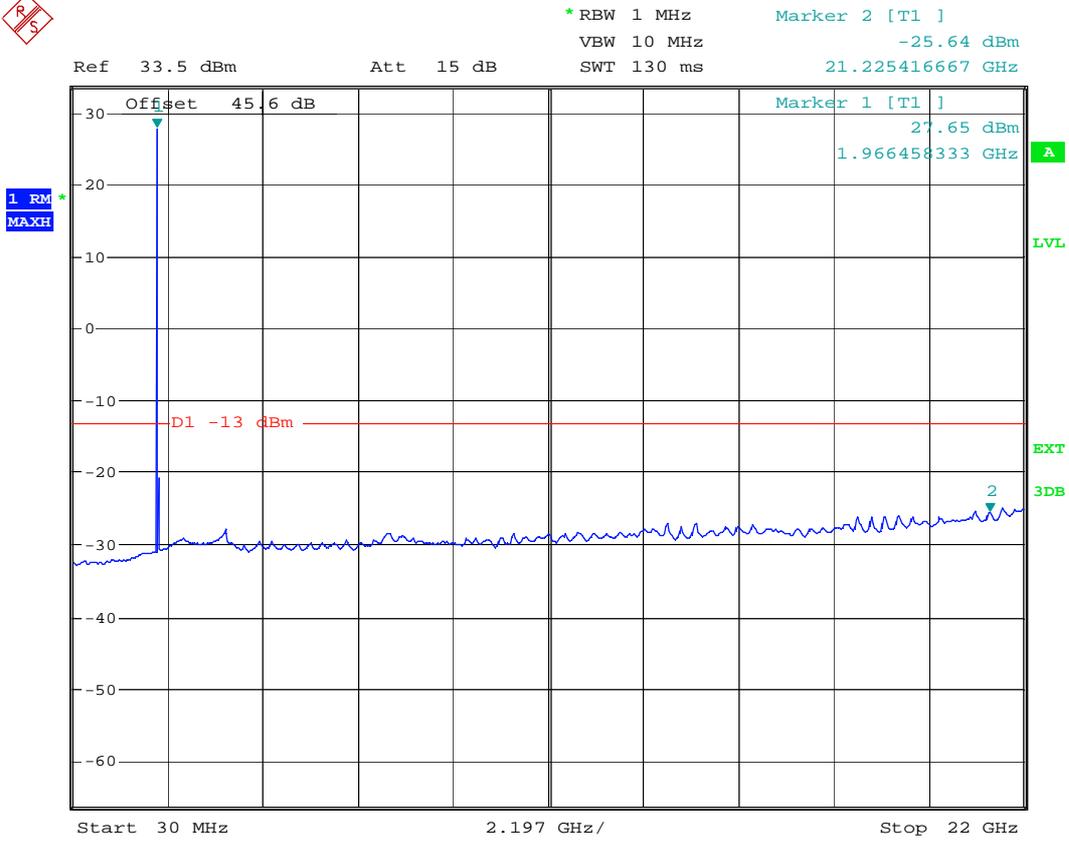
Att 15 dB



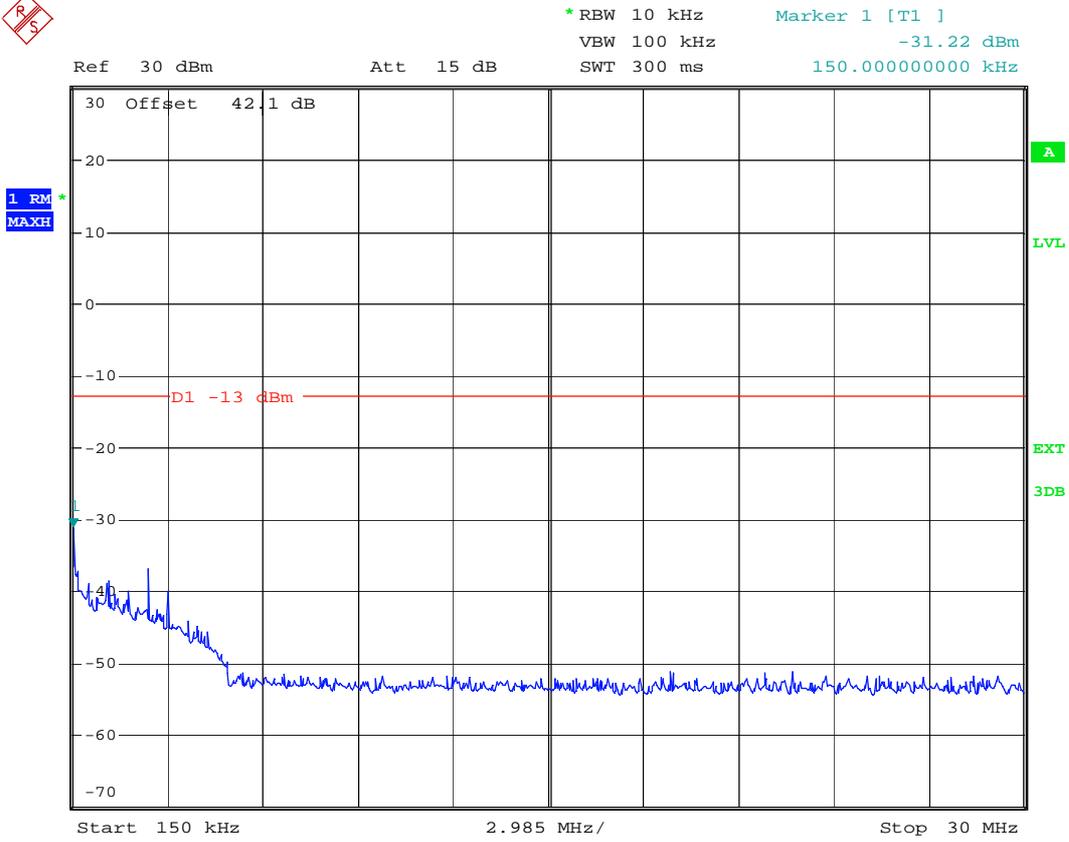
Date: 11.NOV.2009 16:13:35



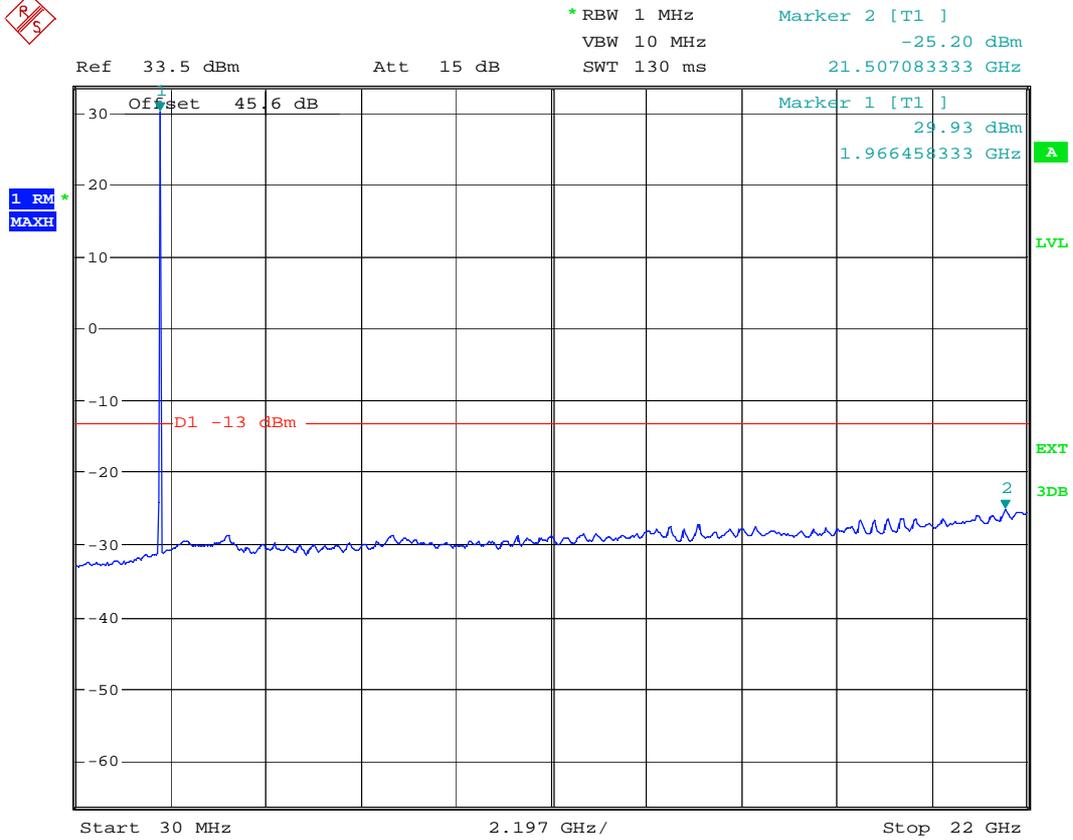
Date: 11.NOV.2009 16:11:43



Date: 11.NOV.2009 16:08:56



Date: 12.NOV.2009 09:47:59



Date: 12.NOV.2009 09:49:42



M channel

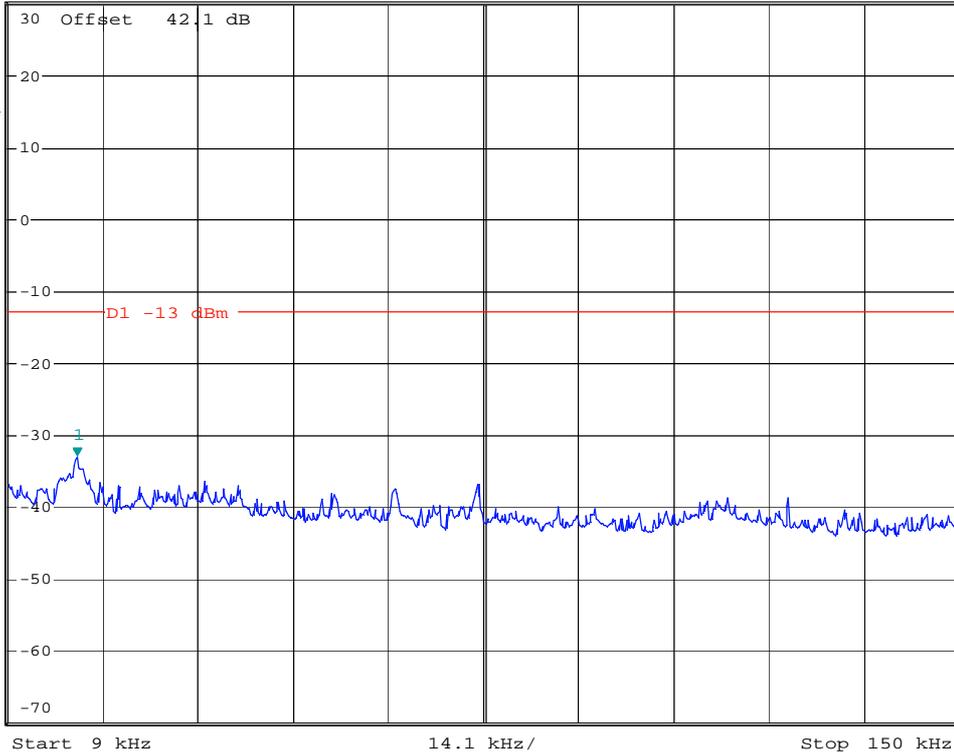


*RBW 1 kHz
VBW 10 kHz
SWT 145 ms

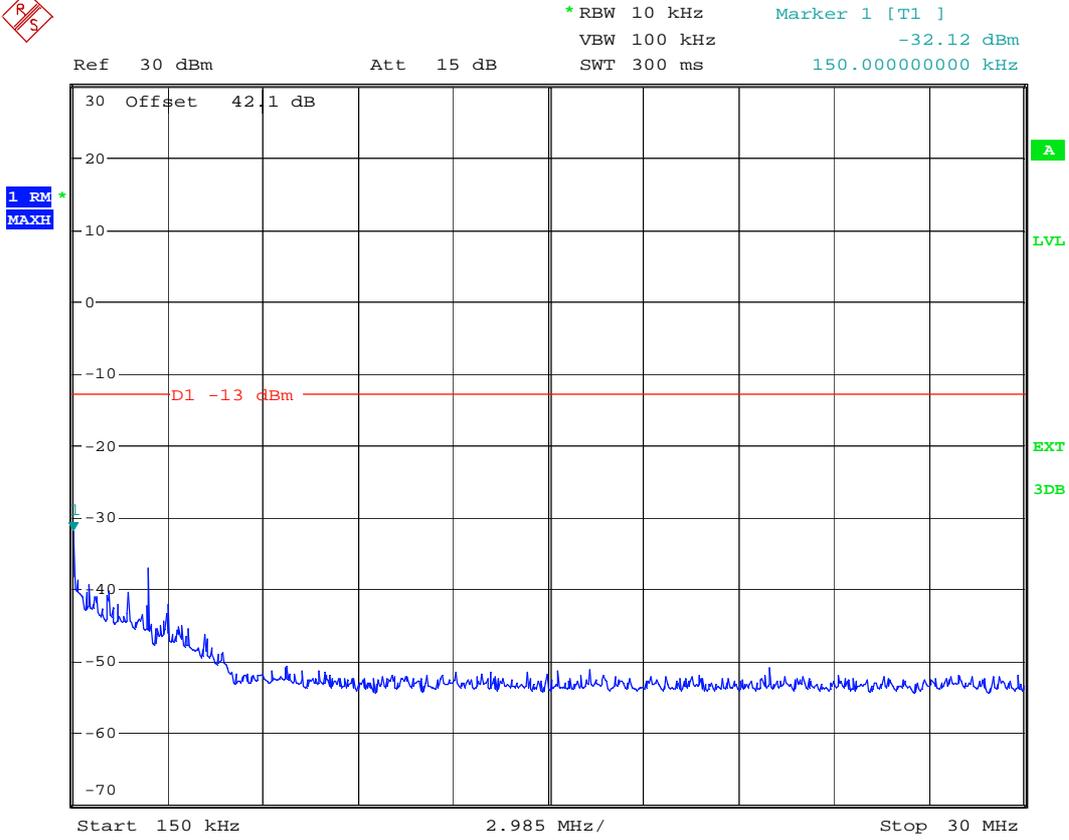
Marker 1 [T1]
-33.12 dBm
19.168269231 kHz

Ref 30 dBm

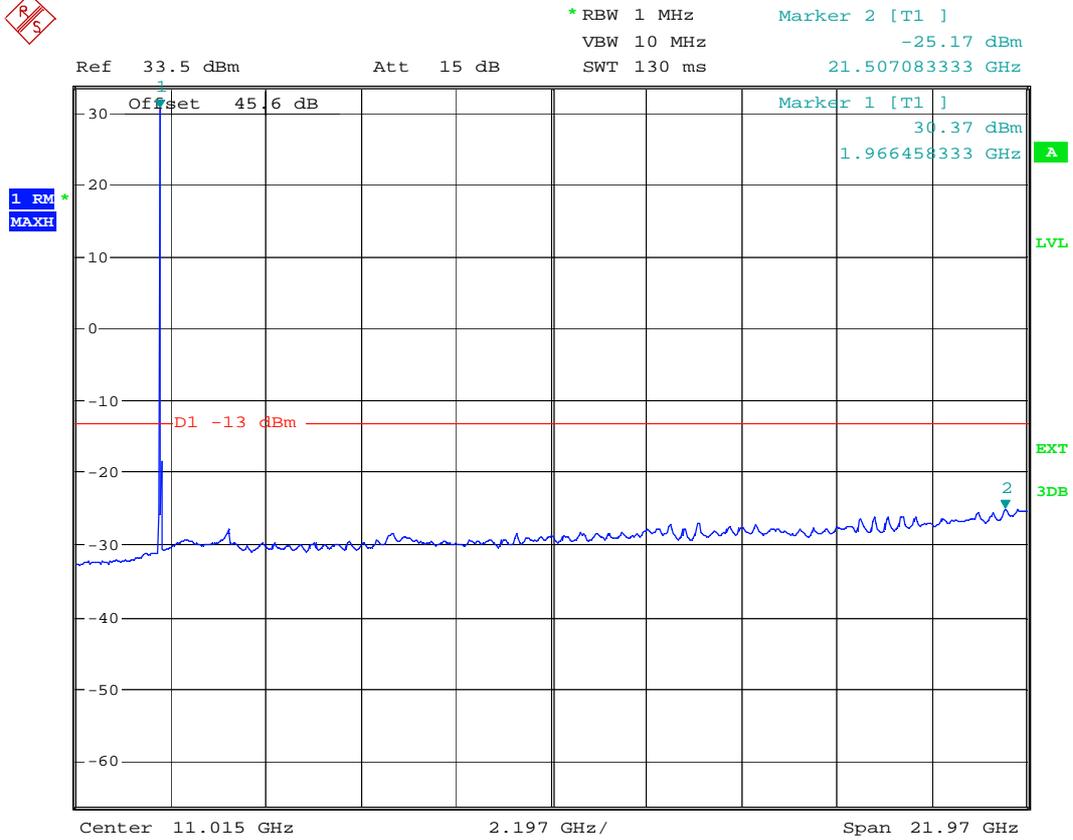
Att 15 dB



Date: 12.NOV.2009 10:11:30



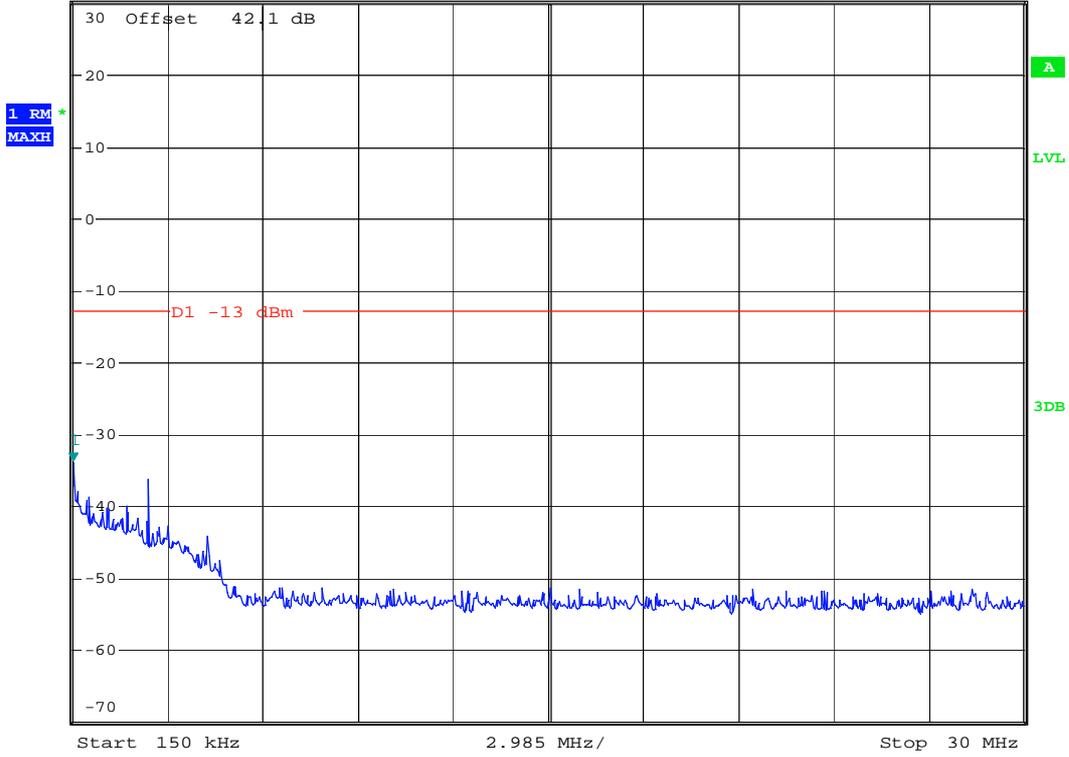
Date: 12.NOV.2009 10:12:24



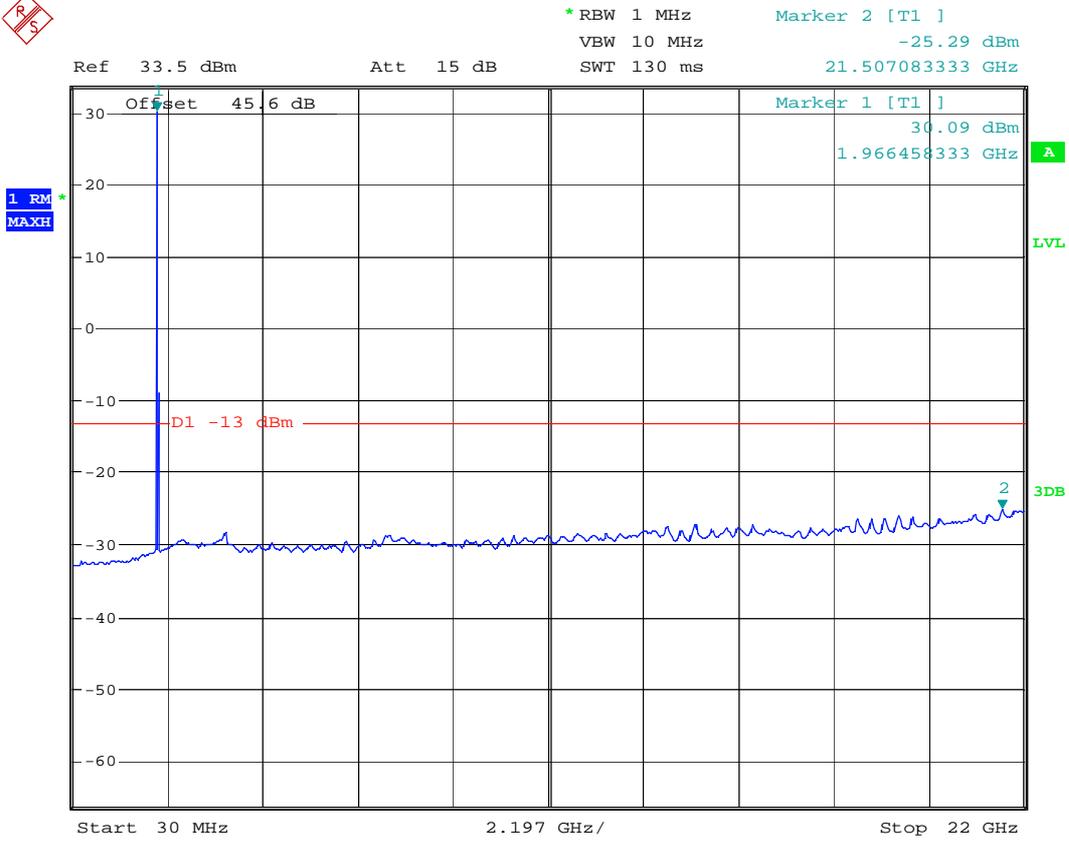
Date: 12.NOV.2009 10:04:56



Ref 30 dBm Att 15 dB *RBW 10 kHz Marker 1 [T1]
VBW 100 kHz -34.02 dBm
SWT 300 ms 150.000000000 kHz



Date: 12.NOV.2009 14:14:55

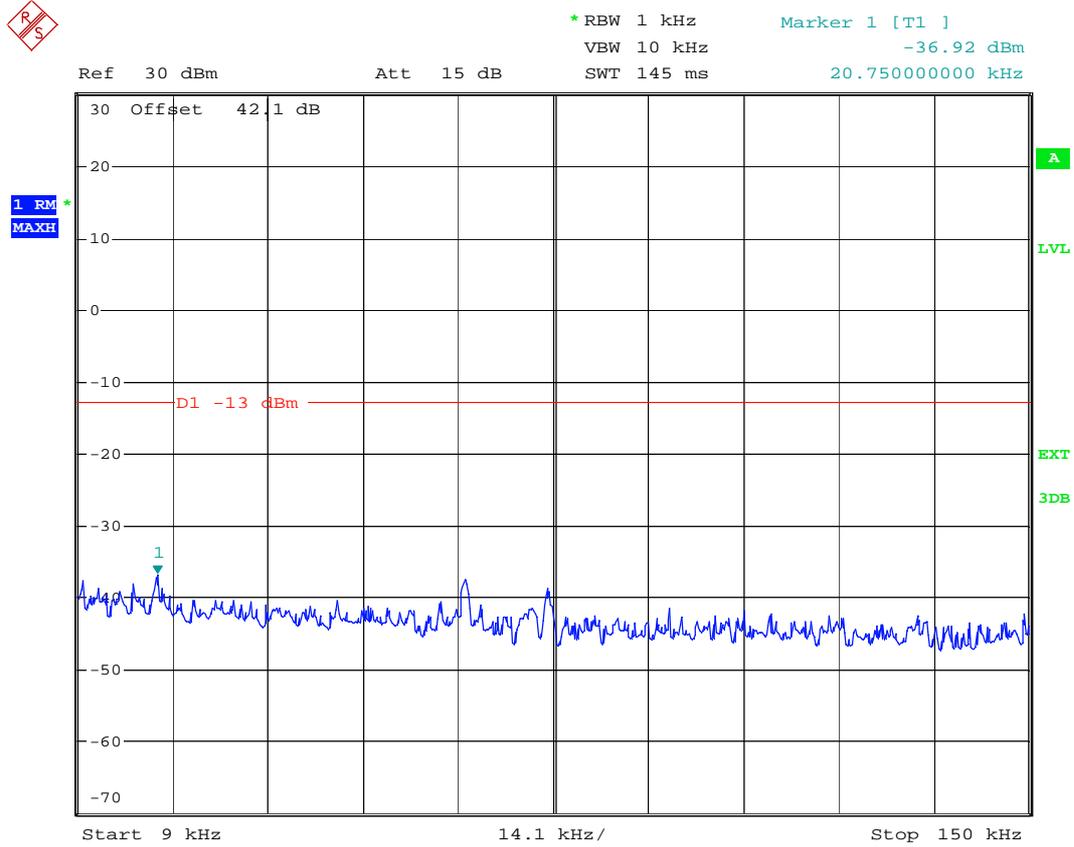


Date: 12.NOV.2009 14:17:30



(3) EVDO One Carrier

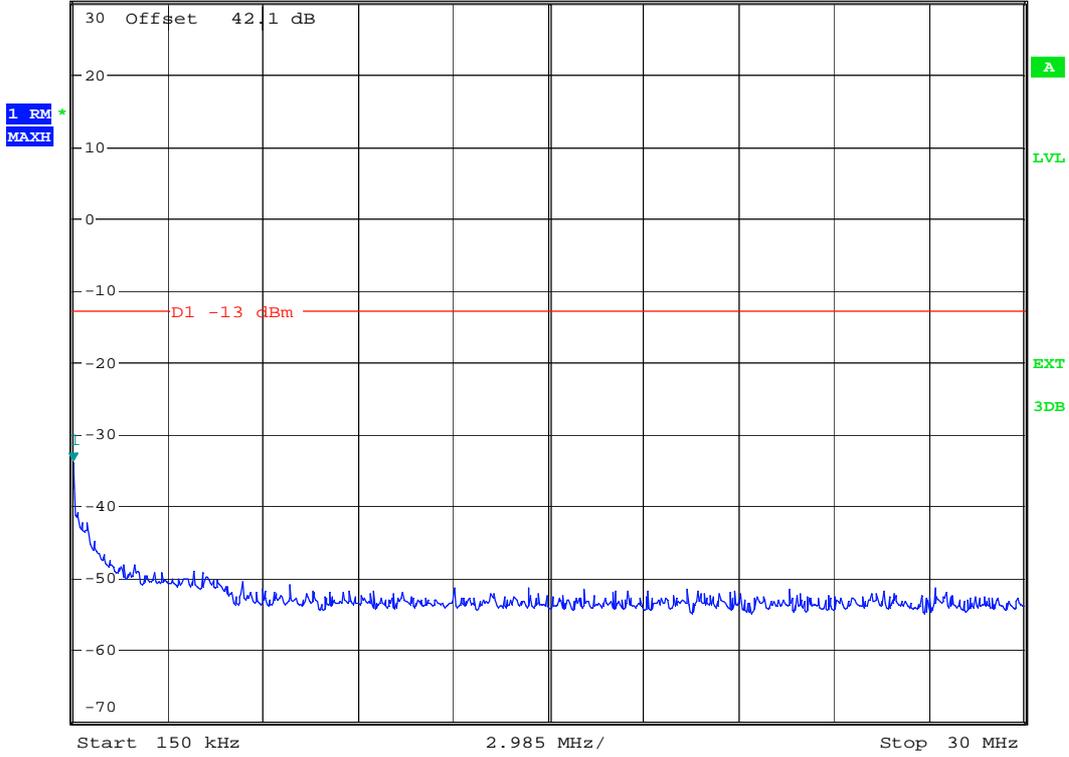
B channel



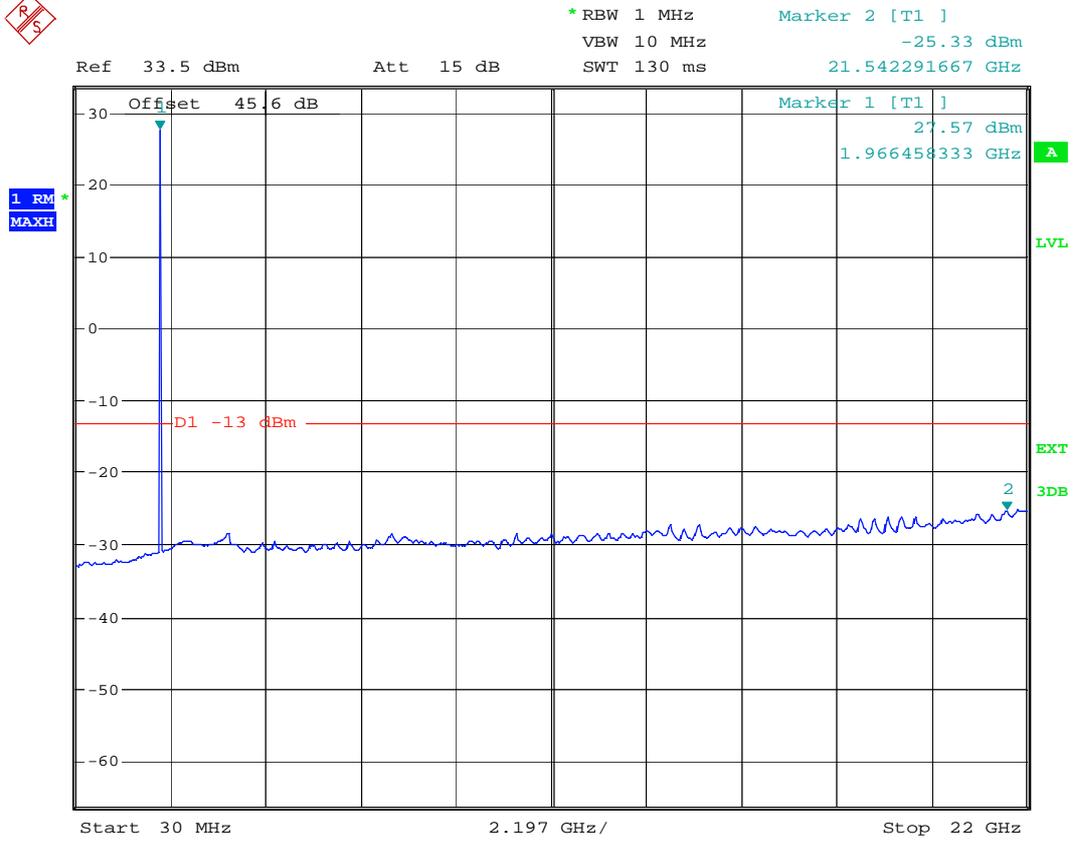
Date: 12.NOV.2009 16:32:13



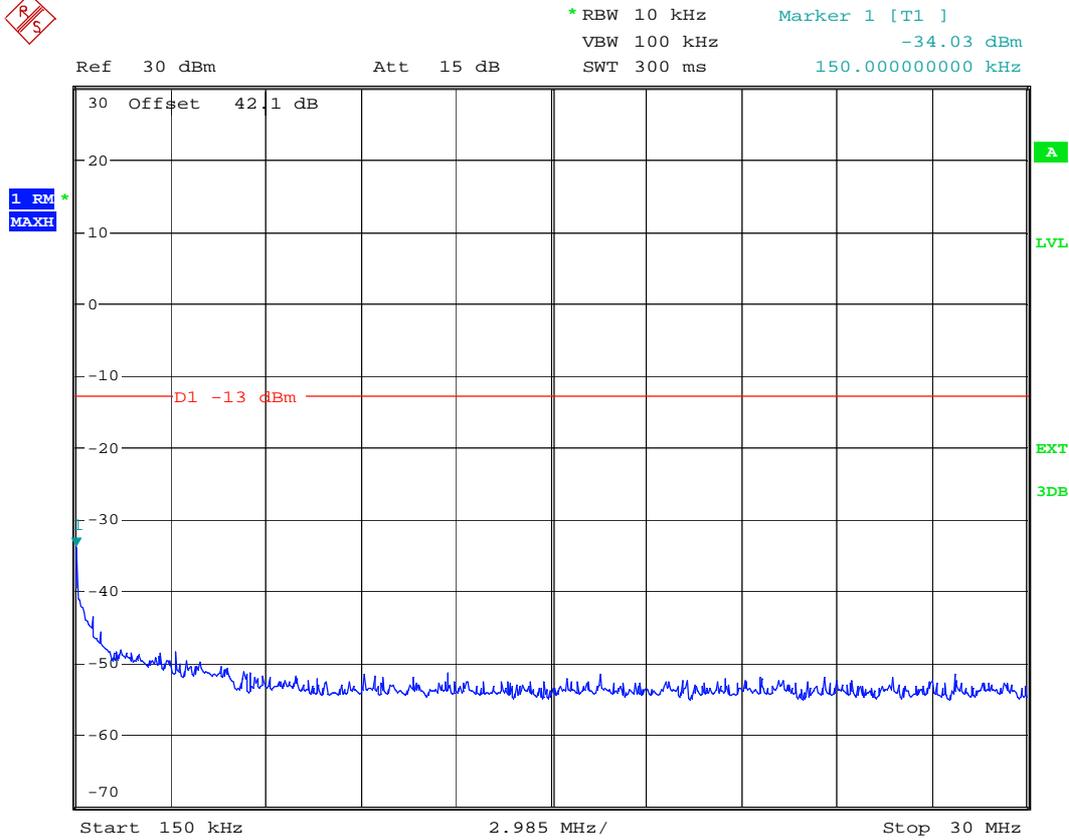
Ref 30 dBm Att 15 dB *RBW 10 kHz Marker 1 [T1]
VBW 100 kHz -33.88 dBm
SWT 300 ms 150.000000000 kHz



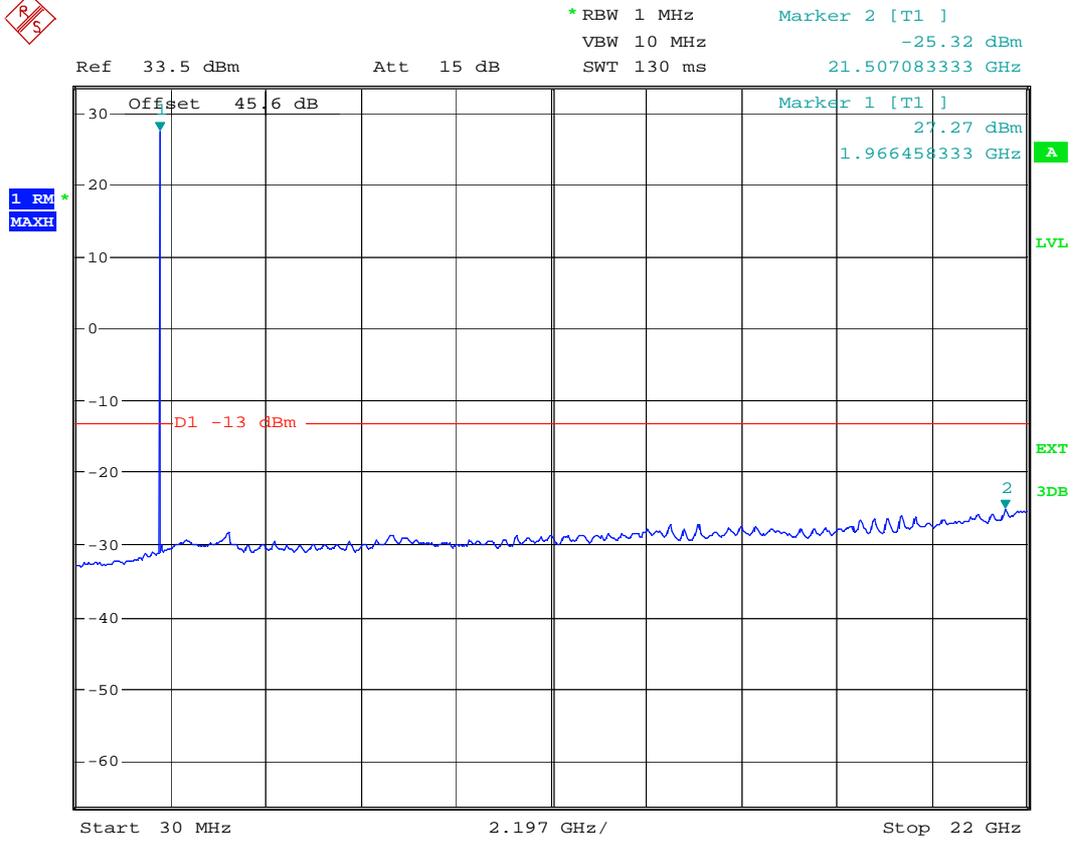
Date: 12.NOV.2009 16:29:42



Date: 12.NOV.2009 16:28:24



Date: 12.NOV.2009 17:05:58



Date: 12.NOV.2009 17:08:38



T channel

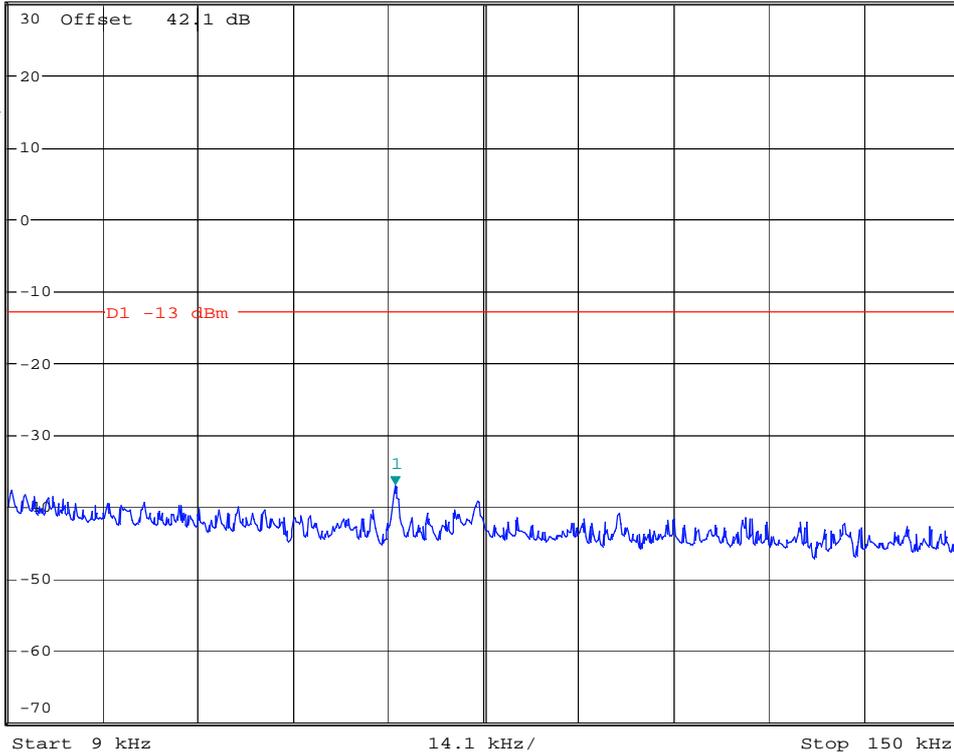


*RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-37.12 dBm
66.394230769 kHz

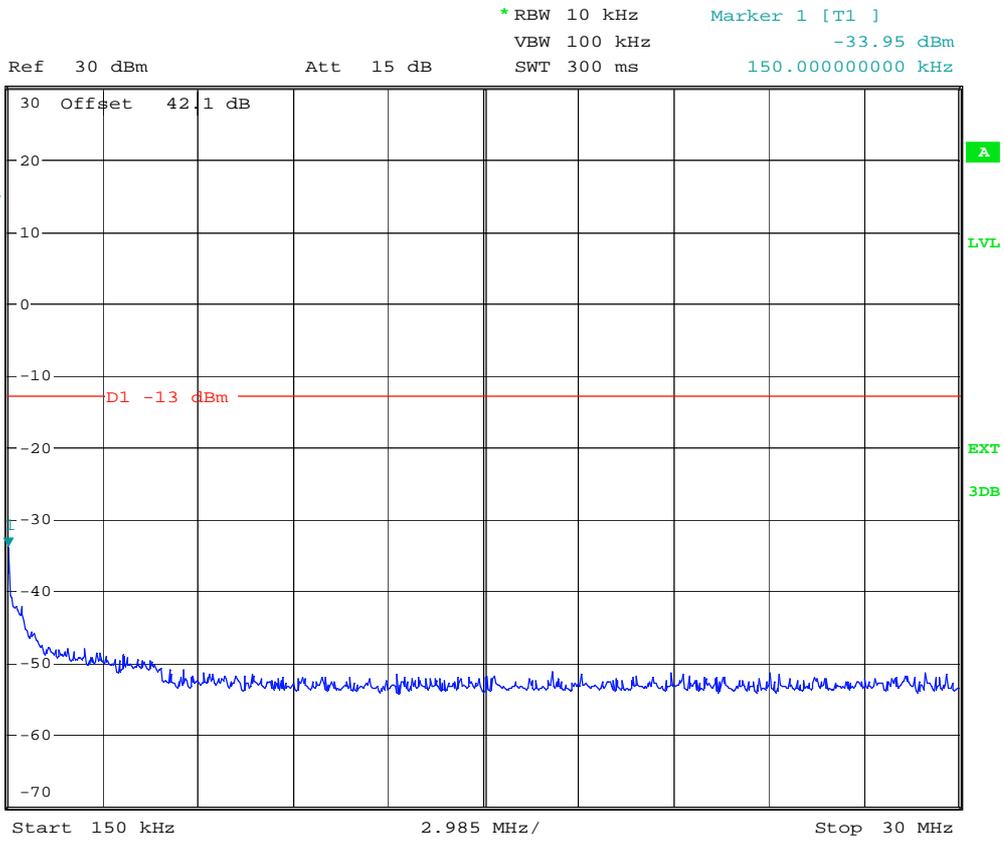
Ref 30 dBm

Att 15 dB

1 RM
MAXH



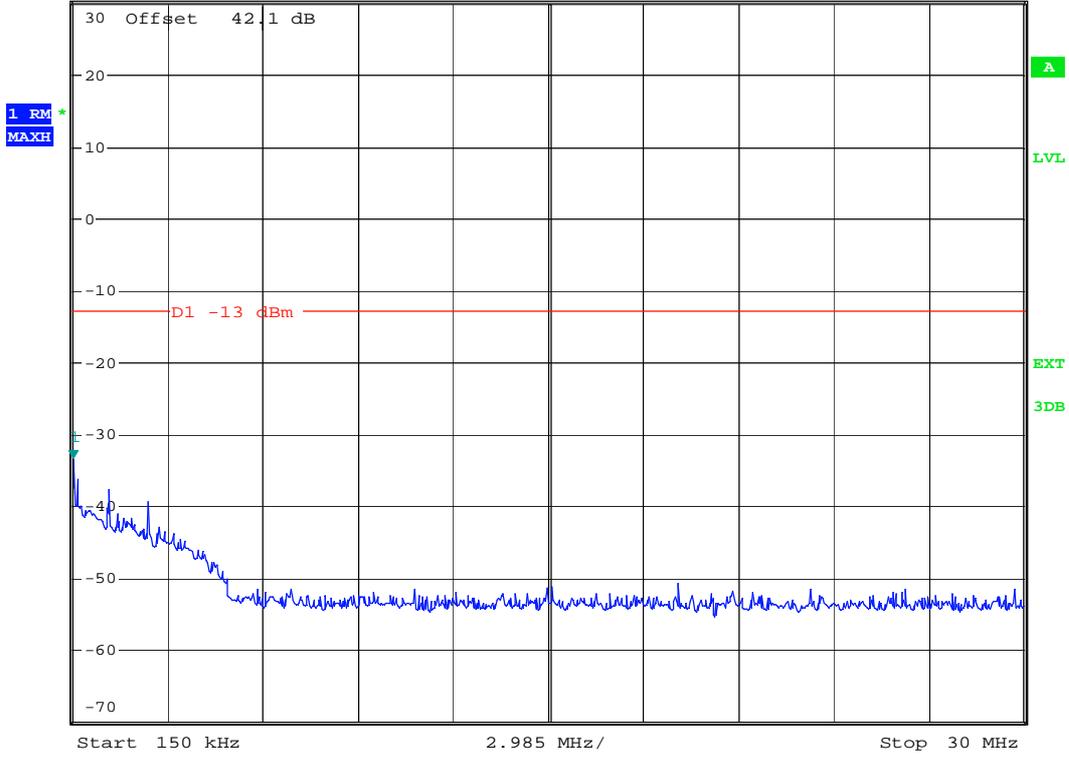
Date: 12.NOV.2009 16:20:29



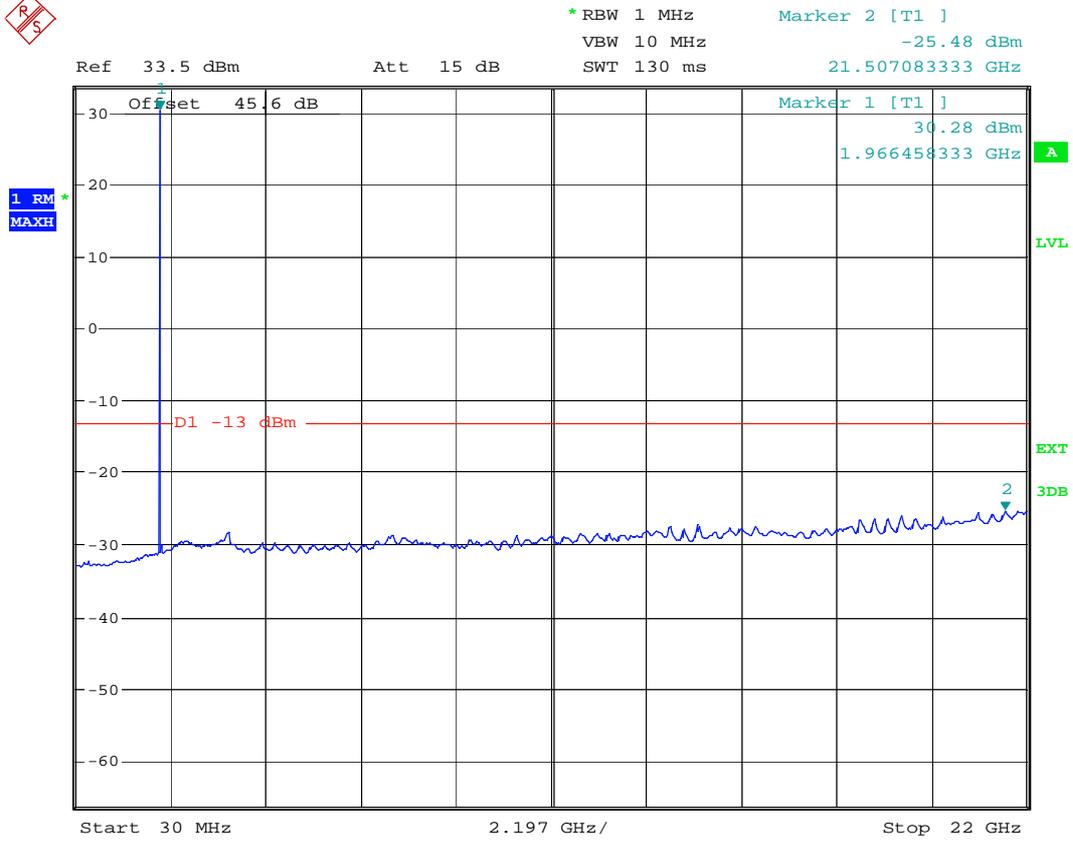
Date: 12.NOV.2009 16:21:38



Ref 30 dBm Att 15 dB *RBW 10 kHz Marker 1 [T1]
VBW 100 kHz -33.58 dBm
SWT 300 ms 150.000000000 kHz



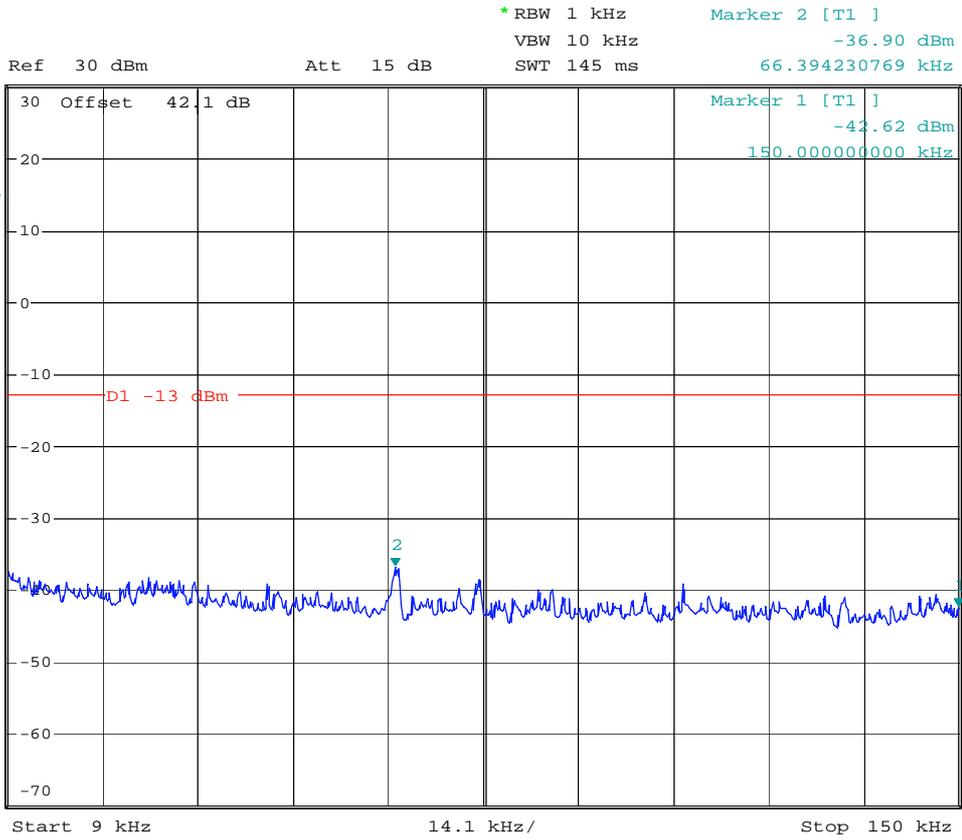
Date: 12.NOV.2009 19:05:11



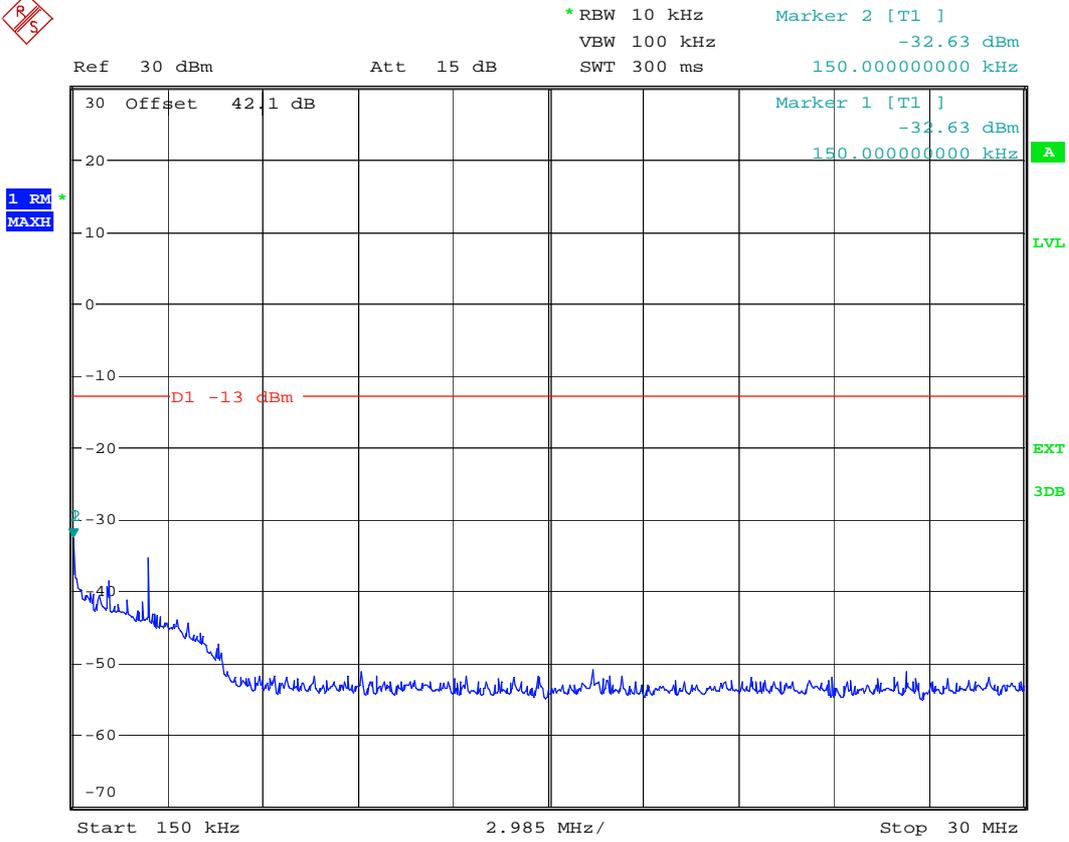
Date: 12.NOV.2009 19:06:25



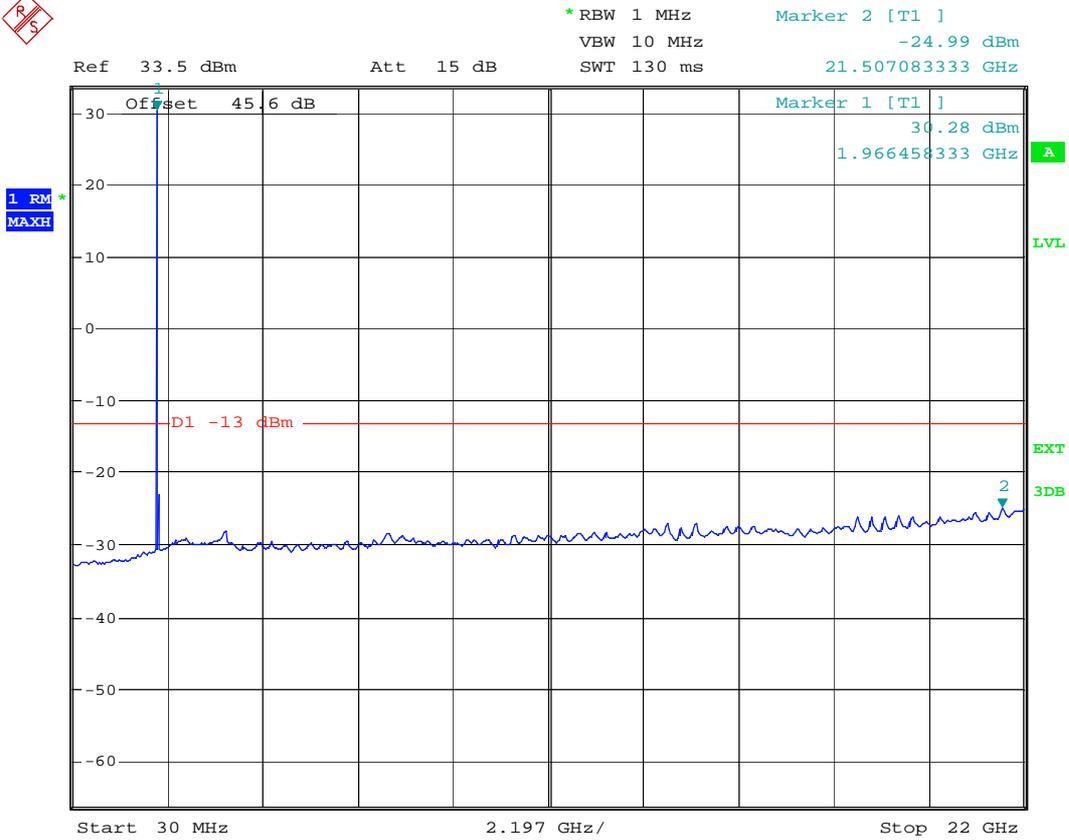
M channel



Date: 12.NOV.2009 19:32:32



Date: 12.NOV.2009 19:31:37



Date: 12.NOV.2009 19:30:46



T channel

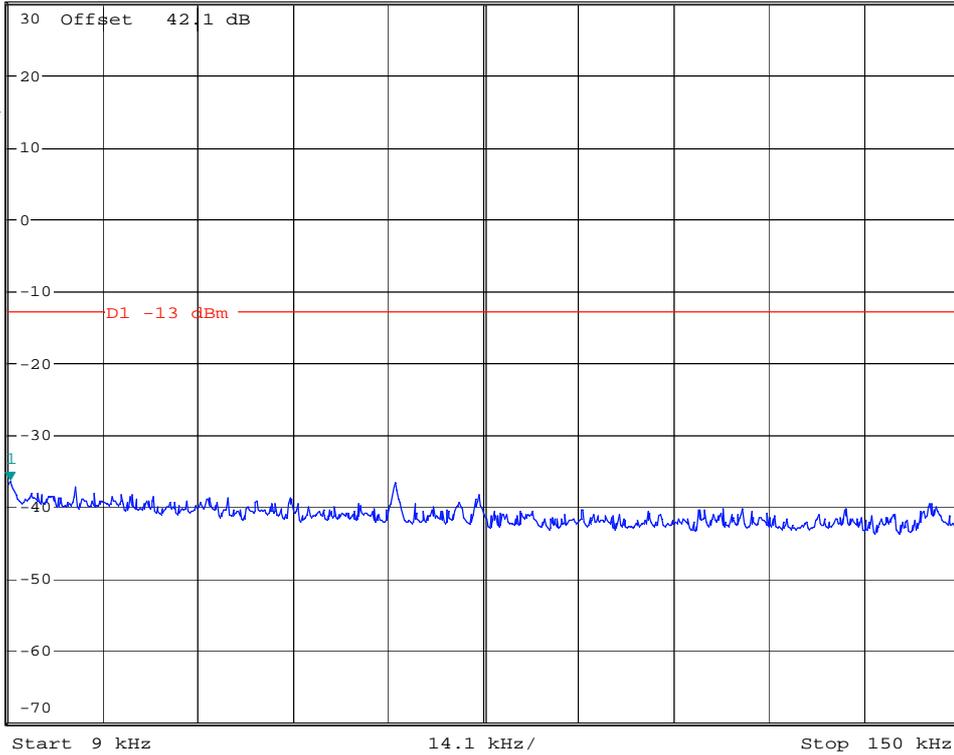


*RBW 1 kHz
VBW 10 kHz
SWT 145 ms
Marker 1 [T1]
-36.59 dBm
9.225961538 kHz

Ref 30 dBm

Att 15 dB

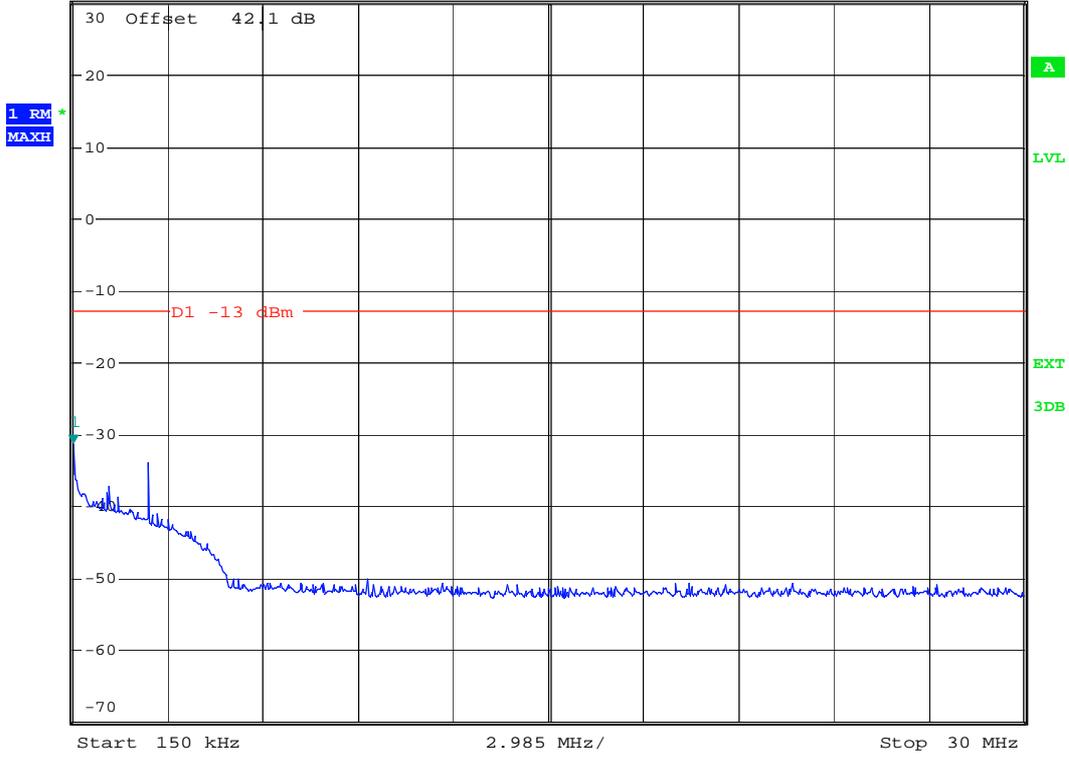
1 RM
MAXH



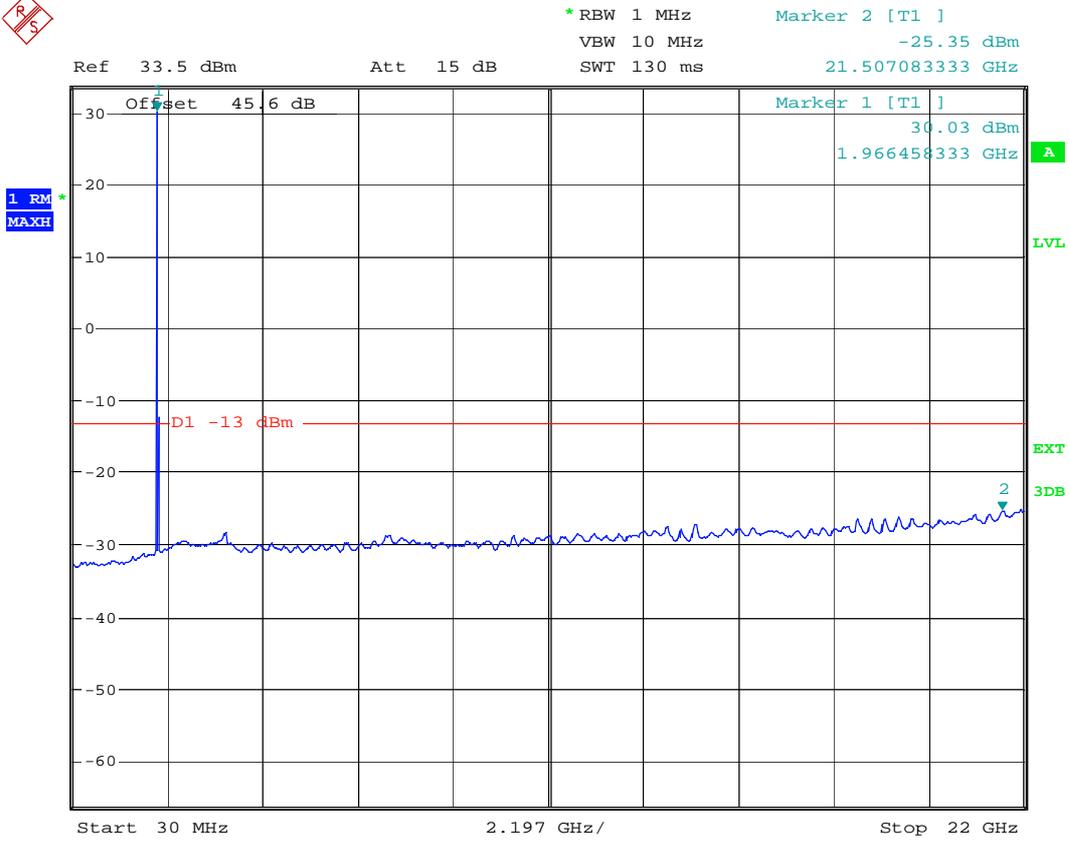
Date: 12.NOV.2009 20:09:48



Ref 30 dBm Att 15 dB *RBW 10 kHz Marker 1 [T1]
VBW 100 kHz -31.48 dBm
SWT 300 ms 150.00000000 kHz



Date: 12.NOV.2009 20:25:39



Date: 12.NOV.2009 20:29:18



Appendix F

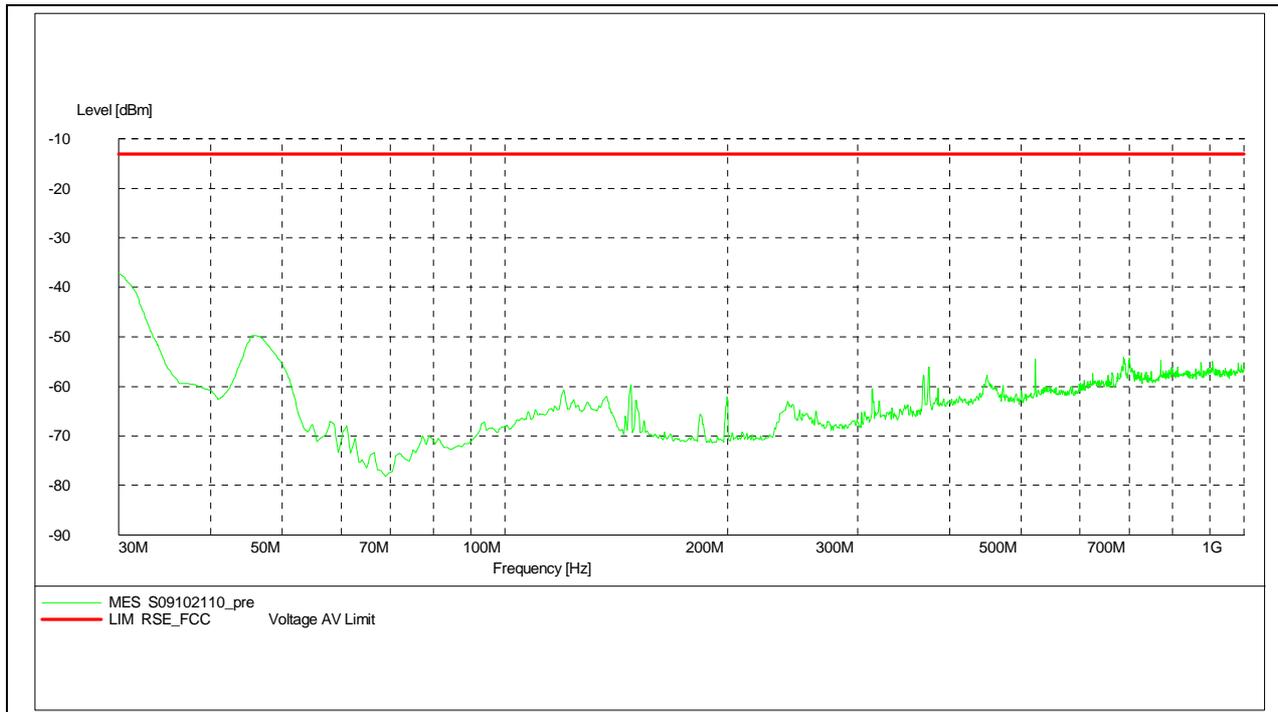
Field Strength of Spurious Radiation Measurement

According to FCC part 2.1053 and part 24.238



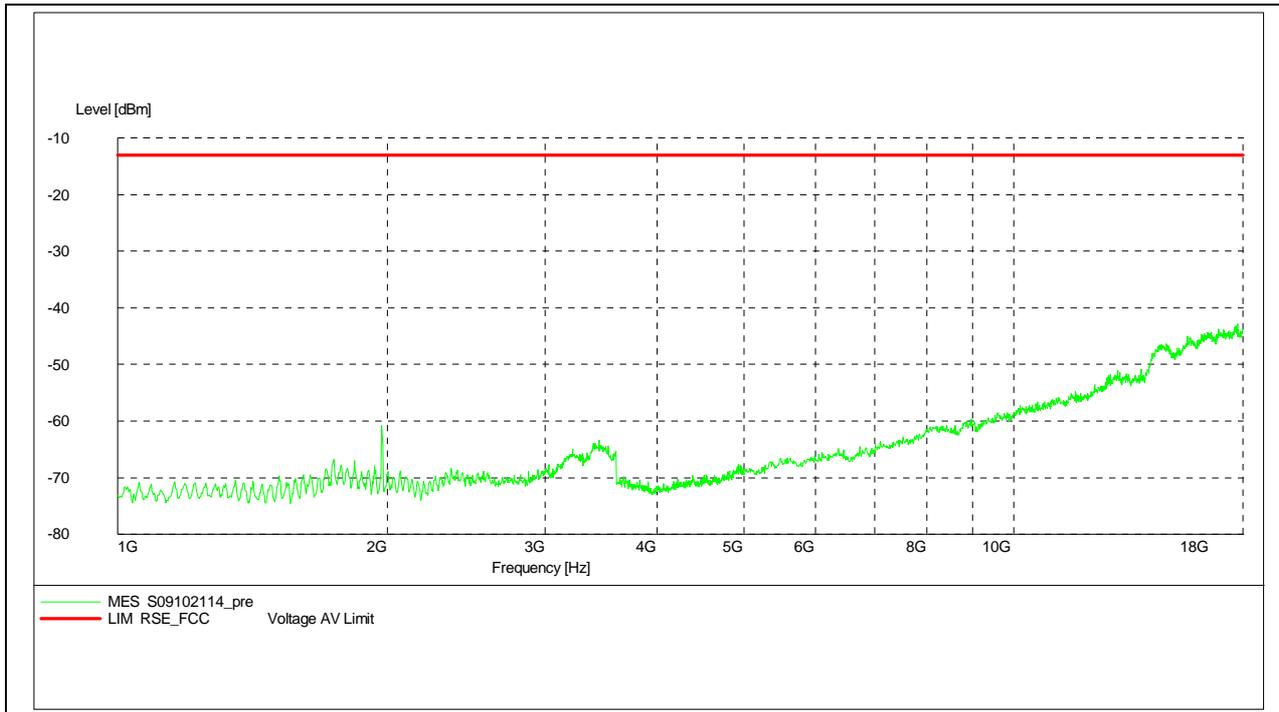
NOTE: a limit line that is stringent than FCC limit (-13dBm) is used in plot(s).

(1) Below 1GHz:





(2) Above 1GHz:





Appendix G

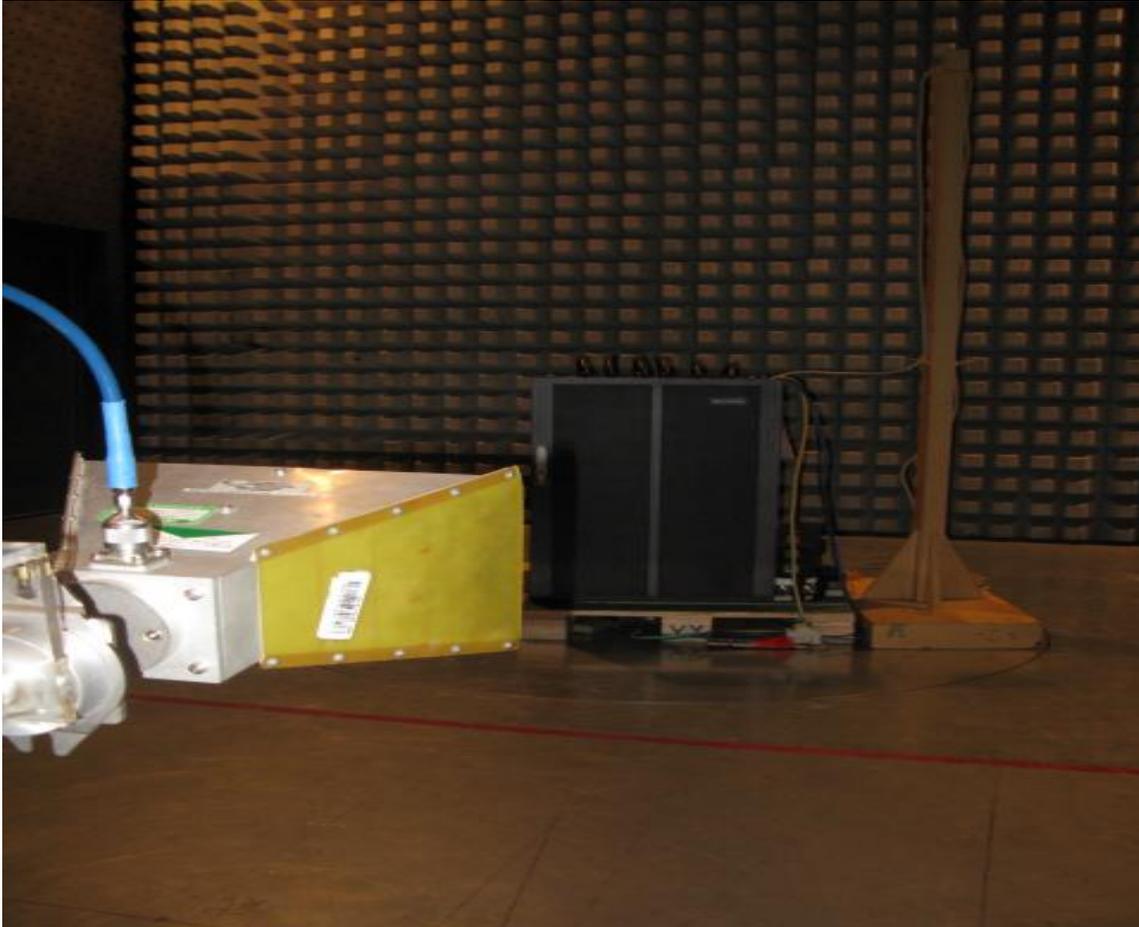
Photos of Test Setup

1. Photos for Radiated Spurious Emissions:

1) Radiated Spurious Disturbance (below 1GHz)



2) Radiated Spurious Disturbance (above 1GHz)



END