



Appendix A

Modulation Characteristic Measurement

According to CFR 47 (FCC) part 2.1047



Channel 450

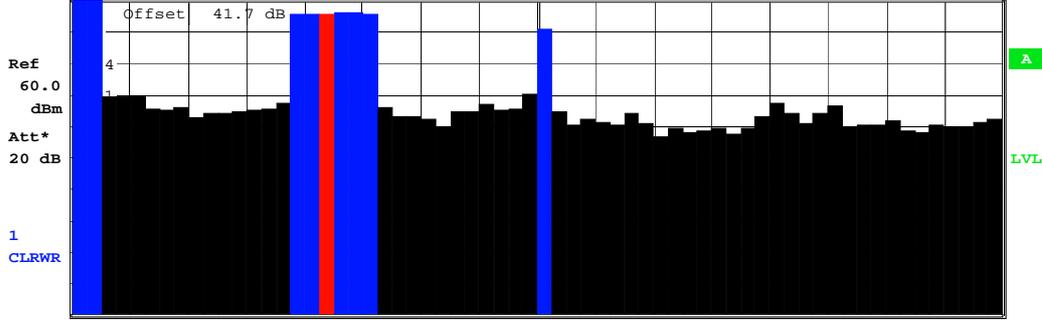


BS,IX,C6 :CODE POWER

SR 19.2 ksps

Chan 17.64

dB PICH CF 2.1325 GHz PCG 0



Start Code 0 4 Code/ Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 ksps

Chan 17.64

Offset 41.7 dB CF 2.1325 GHz PCG 0

EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.66 dBm	Carr Freq Error	-4.01 Hz
Pilot PWR	36.57 dBm	Carr Freq Error	-0.00 ppm
RHO	0.96484	Chip Rate Error	0.12 ppm
Composite EVM	19.09 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-28.22 dB	Active Channels	9
IQ Imbal/Offset	0.92/0.31 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	-.-- ns
Channel.SF	17.64	Phase Offset	-.-- mrad
Channel Power Rel	-3.39 dB	Channel Power Abs	33.19 dBm
Symbol EVM	9.84 % rms	Symbol EVM	18.04 % Pk

AB

Date: 21.APR.2008 12:24:17



Channel 875

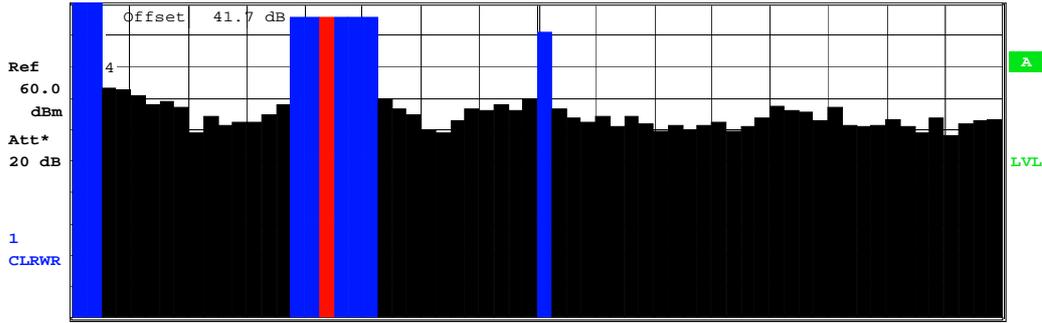


BS_1X_C6 :CODE POWER

SR 19.2 ksps

Chan 17.64

dB PICH CF 2.15375 GHz PCG 0



Start Code 0 4 Code/ Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 ksps

Chan 17.64

Offset 41.7 dB CF 2.15375 GHz PCG 0

EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.51 dBm	Carr Freq Error	2.00 Hz
Pilot PWR	36.45 dBm	Carr Freq Error	0.00 ppm
RHO	0.95744	Chip Rate Error	-0.24 ppm
Composite EVM	21.08 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-26.05 dB	Active Channels	9
IQ Imbal/Offset	0.72/0.55 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	-.-- ns
Channel.SF	17.64	Phase Offset	-.-- mrad
Channel Power Rel	-3.54 dB	Channel Power Abs	32.91 dBm
Symbol EVM	10.14 % rms	Symbol EVM	16.54 % Pk

AB

Date: 21.APR.2008 12:26:44



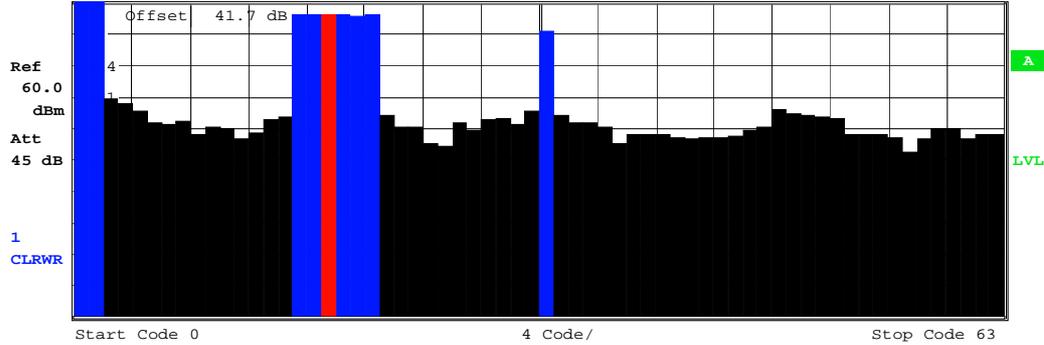
RC3 Channel 25



BS,1X,C6 :CODE POWER

SR 19.2 kbps
Chan 17.64
PCG 0

dB PICH CF 2.11125 GHz



RESULT SUMMARY TABLE

SR 19.2 kbps
Chan 17.64
PCG 0

Offset 41.7 dB CF 2.11125 GHz

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.47 dBm	Carr Freq Error	-12.14 Hz
Pilot PWR	36.37 dBm	Carr Freq Error	-0.01 ppm
RHO	0.97531	Chip Rate Error	0.03 ppm
Composite EVM	15.91 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-28.88 dB	Active Channels	9
IQ Imbal/Offset	1.07/0.39 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps	Modulation	QPSK
Channel.SF	17.64	Timing Offset	-.-- ns
Channel Power Rel	-3.24 dB	Phase Offset	-.-- mrad
Symbol EVM	9.72 % rms	Channel Power Abs	33.13 dBm
		Symbol EVM	16.38 % Pk

AB

Date: 18.APR.2008 12:35:56



Channel 450

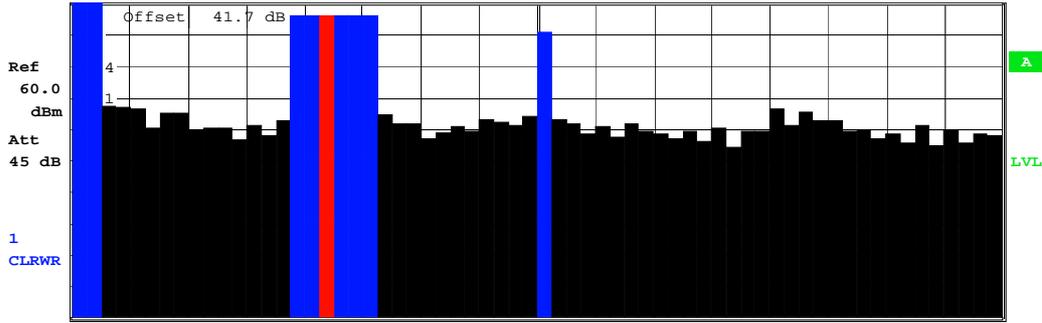


BS_1X_C6 :CODE POWER

SR 19.2 ksps

Chan 17.64

dB PICH CF 2.1325 GHz PCG 0



Start Code 0 4 Code/ Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 ksps

Chan 17.64

Offset 41.7 dB CF 2.1325 GHz PCG 0

EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.29 dBm	Carr Freq Error	41.75 Hz
Pilot PWR	36.13 dBm	Carr Freq Error	0.02 ppm
RHO	0.97568	Chip Rate Error	-0.06 ppm
Composite EVM	15.79 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-30.22 dB	Active Channels	9
IQ Imbal/Offset	0.96/0.25 %		
CHANNEL RESULTS:		Modulation	QPSK
Symbol Rate	19.2 ksps	Timing Offset	-.-- ns
Channel.SF	17.64	Phase Offset	-.-- mrad
Channel Power Rel	-3.07 dB	Channel Power Abs	33.06 dBm
Symbol EVM	9.38 % rms	Symbol EVM	18.20 % Pk

AB

Date: 18.APR.2008 12:03:20

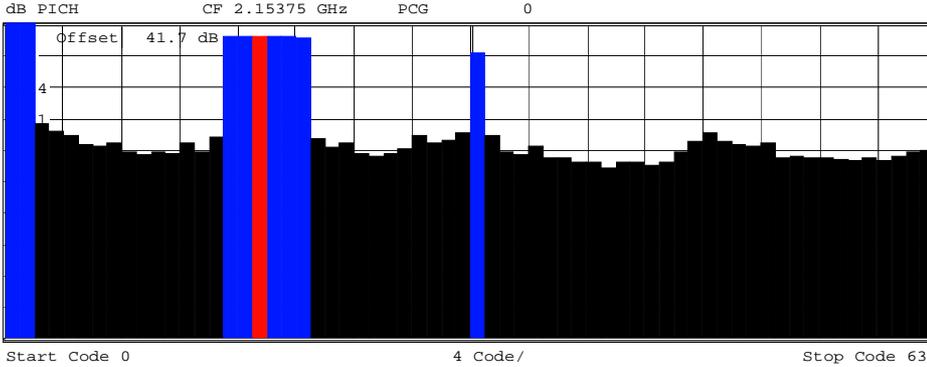


Channel 875



BS,IX,C6 :CODE POWER

SR 19.2 ksps
Chan 17.64
PCG 0



RESULT SUMMARY TABLE

SR 19.2 ksps
Chan 17.64
PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.19 dBm	Carr Freq Error	1.32 Hz
Pilot PWR	36.09 dBm	Carr Freq Error	0.00 ppm
RHO	0.97716	Chip Rate Error	0.34 ppm
Composite EVM	15.29 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-29.66 dB	Active Channels	9
IQ Imbal/Offset	0.79/0.13 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps	Modulation	QPSK
Channel.SF	17.64	Timing Offset	-.-- ns
Channel Power Rel	-3.22 dB	Phase Offset	-.-- mrad
Symbol EVM	8.37 % rms	Channel Power Abs	32.88 dBm
		Symbol EVM	15.37 % Pk

AB

Date: 18.APR.2008 12:22:03



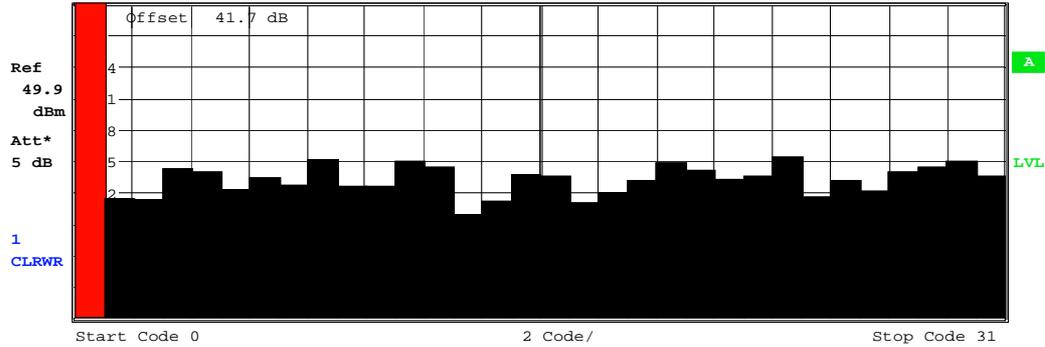
CDMA2000 1X EV-DO: Channel 25



BS,DO,C6 :CODE POWER

Type PILOT-I
Code 0.32
Slot 0

dB CF 2.11125 GHz



GENERAL RESULTS

Type ALL

EXT

Offset 41.7 dB CF 2.11125 GHz

Global Results for Set 0:			
Ref	Carr Freq Error	1.05 Hz	RHO Pilot 0.99483
49.9	Carr Freq Error	0.00 ppm	RHO ov-1/-2 0.98188/0.98176
dBm	Chip Rate Error	0.03 ppm	RHO MAC 0.99374
	Trg to Frame	-.----- s	RHO DATA 0.97855
Results for Set 0 / Slot 0:			
Att*	Power PILOT	43.97 dBm	Data Modulation Type 16-QAM
5 dB	Power MAC	43.39 dBm	Act. MAC Channels 46
	Power DATA	43.37 dBm	Act. DATA Channels 16
1	Power PREAMBLE	44.00 dBm	Preamble Length 64 Chips
CLRWR	Composite EVM	12.87 %	RHO 0.98372
	Max. Pwr DATA	-14.20 dB	Max. inact. Pwr MAC -34.92 dB
	Min. Pwr DATA	-16.03 dB	

AB

Date: 17.APR.2008 18:58:54



Channel 450

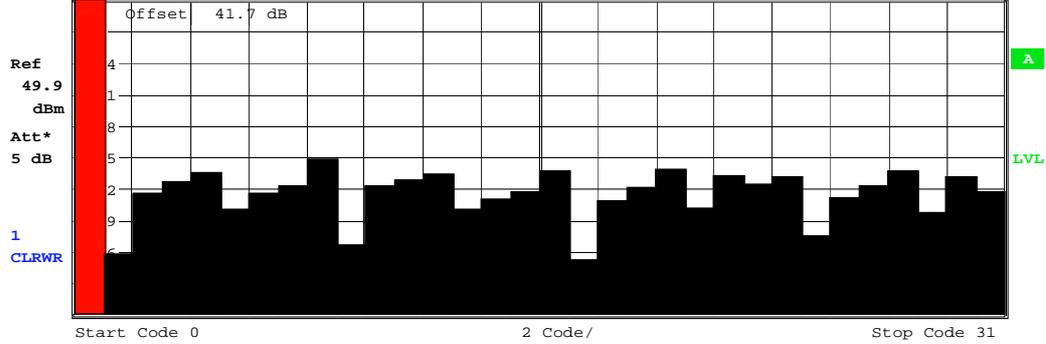


BS,DO,C6 :CODE POWER

Type PILOT-I

Code 0.32

dB CF 2.1325 GHz Slot 0



Start Code 0 2 Code/ Stop Code 31

GENERAL RESULTS

Type ALL

EXT

Offset 41.7 dB CF 2.1325 GHz

		Global Results for Set 0:			
Ref	Carr Freq Error	1.58 Hz	RHO Pilot	0.99619	
49.9	Carr Freq Error	0.00 ppm	RHO ov-1/-2	0.98366/0.98288	
dBm	Chip Rate Error	0.03 ppm	RHO MAC	0.99162	
	Trg to Frame	-.----- s	RHO DATA	0.97989	
		Results for Set 0 / Slot 0:			
Att*	Power PILOT	44.03 dBm	Data Modulation Type	16-QAM	
5 dB	Power MAC	43.86 dBm	Act. MAC Channels	22	
	Power DATA	43.40 dBm	Act. DATA Channels	16	
1	Power PREAMBLE	44.03 dBm	Preamble Length	64 Chips	
CLRWR	Composite EVM	12.91 %	RHO	0.98361	
	Max. Pwr DATA	-14.12 dB	Max. inact. Pwr MAC	-38.89 dB	
	Min. Pwr DATA	-16.07 dB			

AB

Date: 17.APR.2008 18:59:51



Appendix B

Occupied Bandwidth Measurement

According to CFR 47 (FCC) part 2.1049



CDMA2000 1X

Channel 25



BS,1X,C6 :OCC BANDWDT

* RBW 20 kHz

Marker 1 [T1]

* VBW 300 kHz

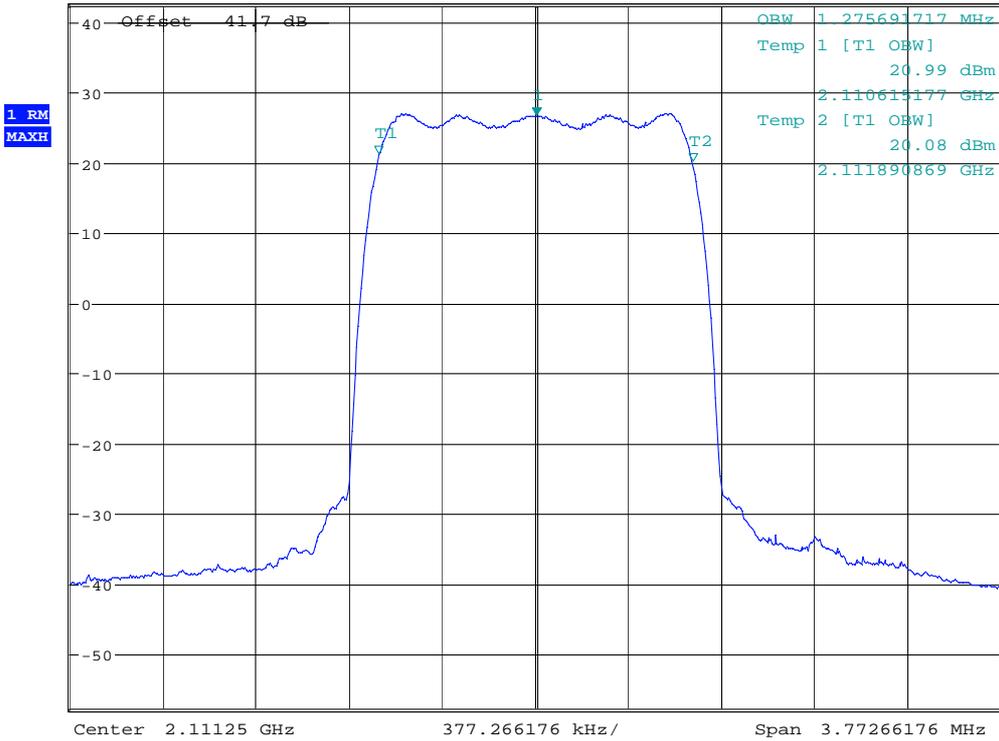
26.56 dBm

* SWT 5 s

2.111256689 GHz

Ref 42.4 dBm

* Att 10 dB



AB

Date: 18.APR.2008 12:38:46

Channel 450



BS,1X,C6 :OCC BANDWDT

*RBW 20 kHz
 *VBW 300 kHz
 *SWT 5 s

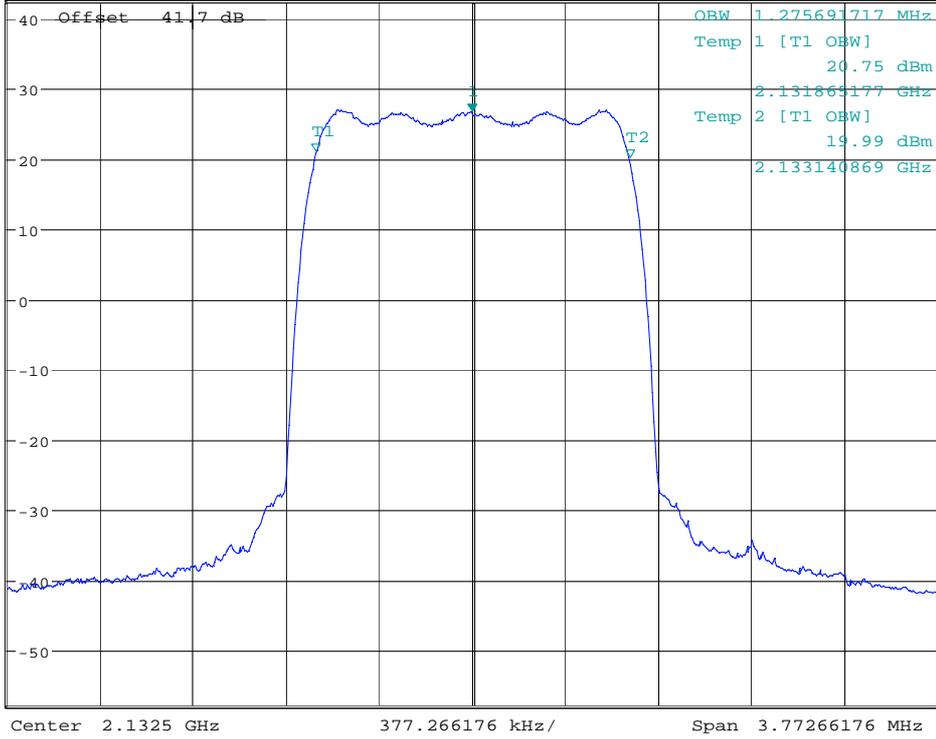
Marker 1 [T1]
 26.44 dBm
 2.132499543 GHz

Ref 42.4 dBm

*Att 10 dB

*SWT 5 s

2.132499543 GHz



AB

Date: 18.APR.2008 12:04:42

Channel 875



BS,1X,C6 :OCC BANDWDT

*RBW 20 kHz
 *VBW 300 kHz
 *SWT 5 s

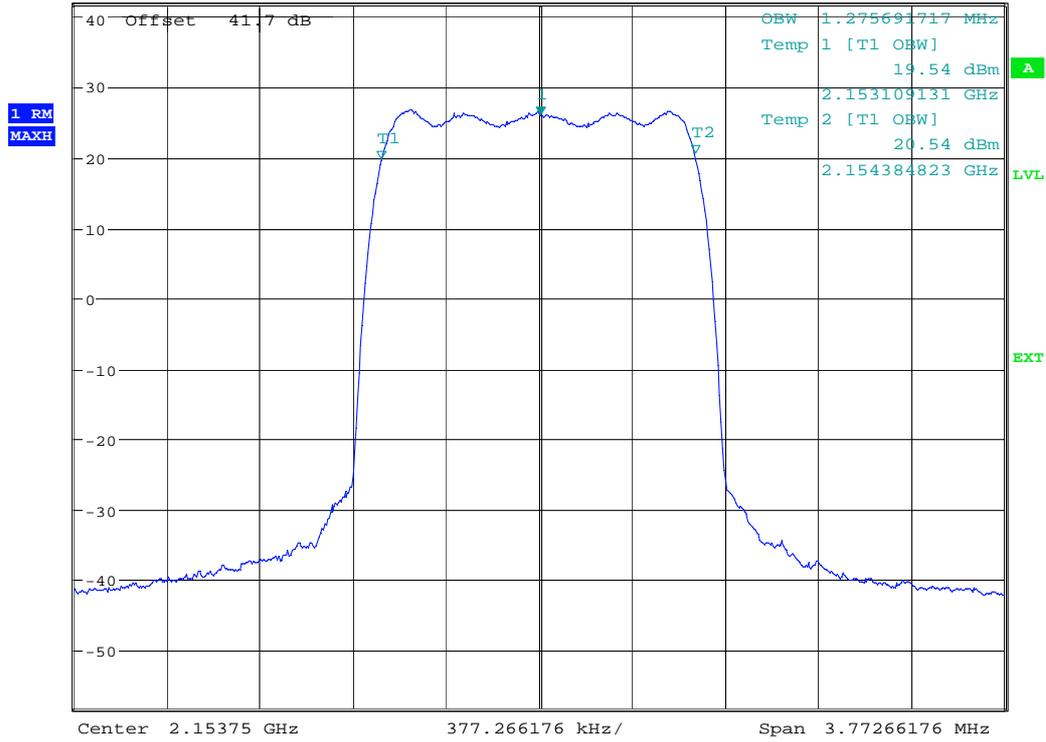
Marker 1 [T1]
 25.98 dBm
 2.153757921 GHz

Ref 41.8 dBm

*Att 10 dB

*SWT 5 s

2.153757921 GHz



AB

Date: 18.APR.2008 12:23:33

CDMA2000 1X EV-DO



Channel 25



BS,DO,C0 :OCC BANDWDT

* RBW 20 kHz

Marker 1 [T1]

* VBW 300 kHz

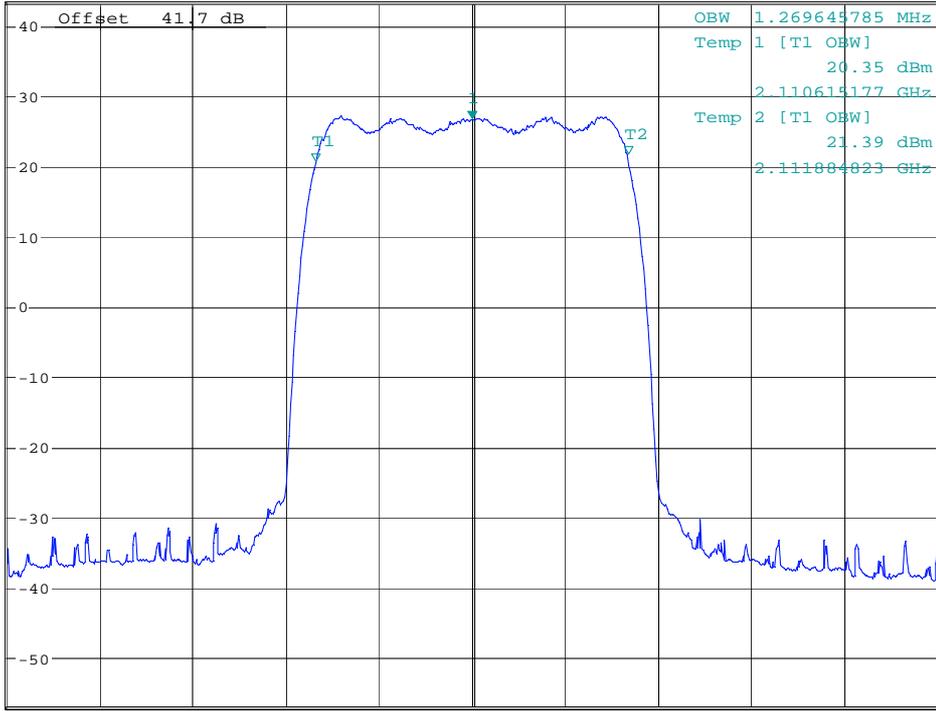
26.51 dBm

* SWT 5 s

2.111247579 GHz

Ref 43.2 dBm

* Att 10 dB



Center 2.11125 GHz 377.266176 kHz/ Span 3.77266176 MHz

AB

Date: 17.APR.2008 17:46:18



Channel 450



BS,DO,C6 :OCC BANDWDT

*RBW 20 kHz

Marker 1 [T1]

*VBW 300 kHz

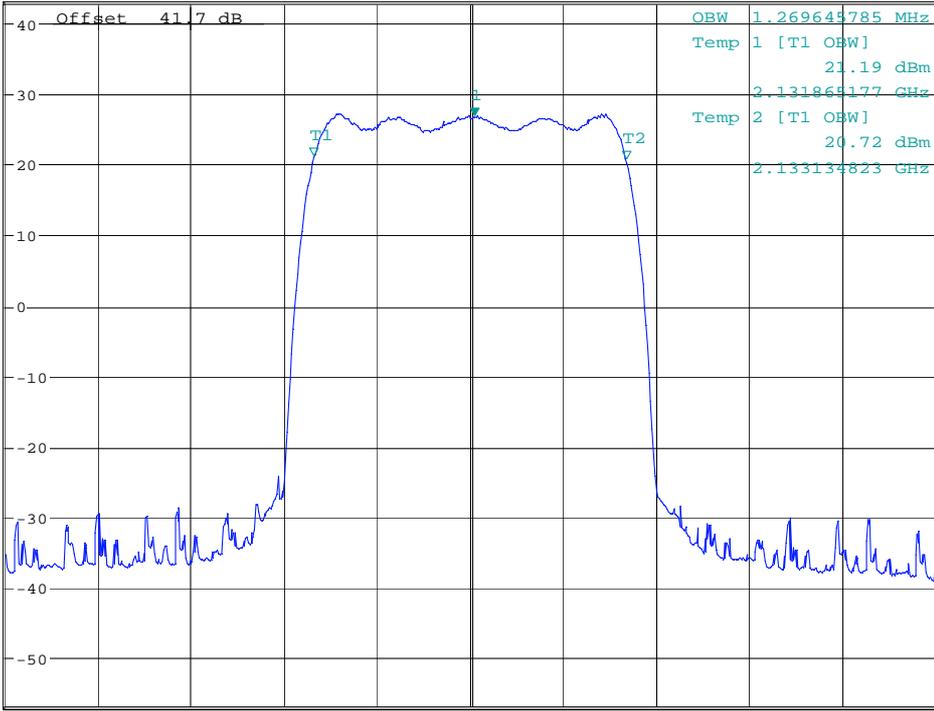
26.82 dBm

*SWT 5 s

2.132520763 GHz

Ref 43.1 dBm

*Att 10 dB



Center 2.1325 GHz 377.266176 kHz/ Span 3.77266176 MHz

AB

Date: 17.APR.2008 18:12:21

Channel 875



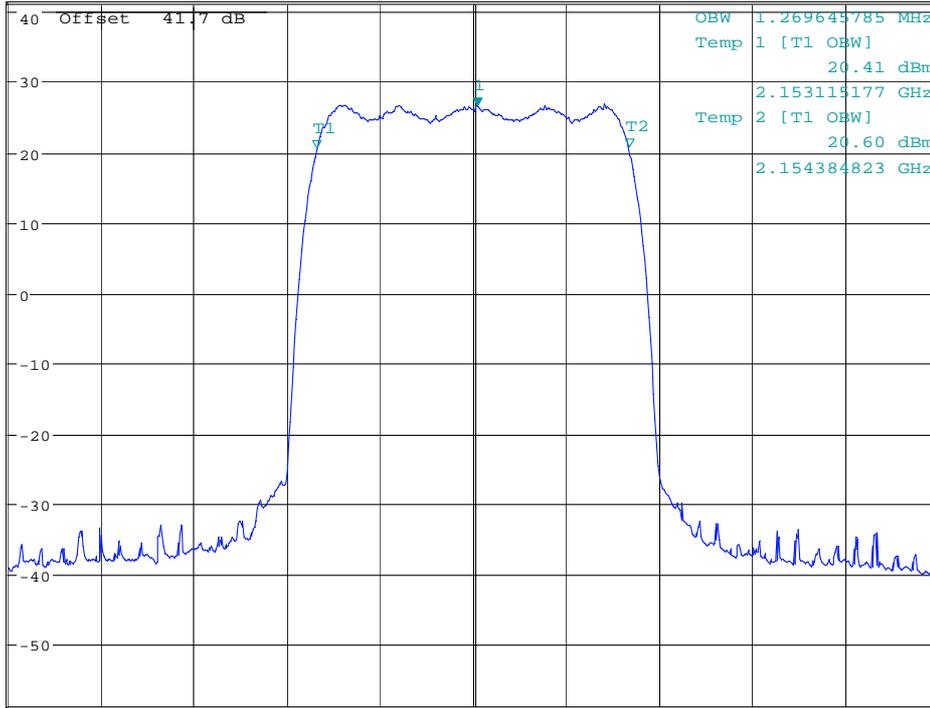
BS,DO,C6 :OCC BANDWDT

*RBW 20 kHz Marker 1 [T1]
 *VBW 300 kHz 26.40 dBm
 *SWT 5 s 2.153767169 GHz

Ref 41.3 dBm

*Att 10 dB

1 RM
 MAXH



Center 2.15375 GHz 377.266176 kHz/ Span 3.77266176 MHz

AB

Date: 17.APR.2008 18:38:00



Appendix C

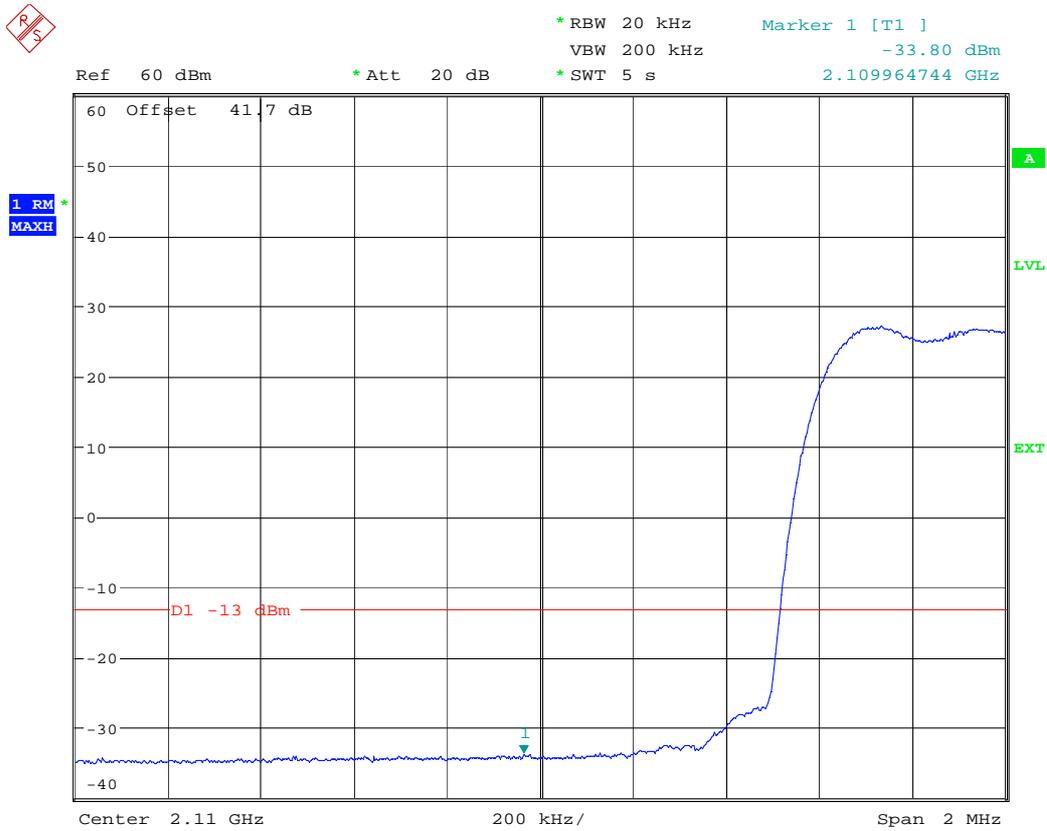
Band Edge Measurements According to FCC Part 2.1051 & 27.53(g)



CDMA2000 1X:

A. Single Carrier:

Channel 25 (2111.25 MHz)

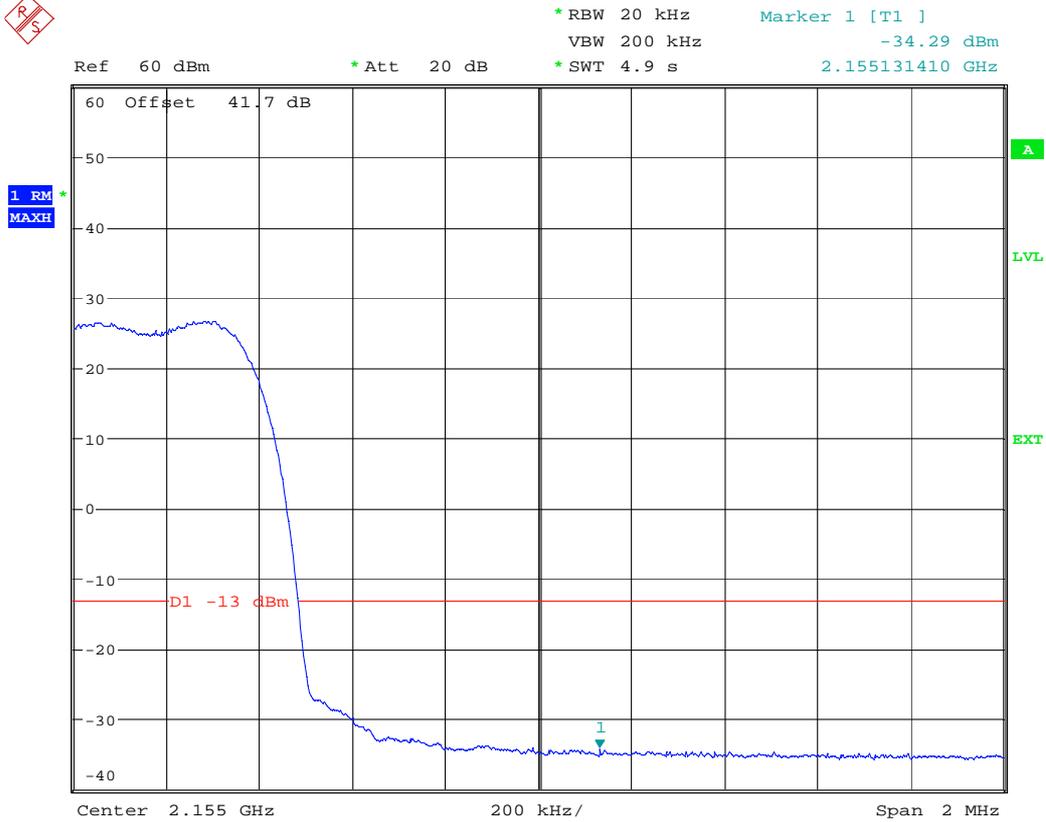


AB

Date: 18.APR.2008 12:40:42



Channel 875 (2153.75 MHz)



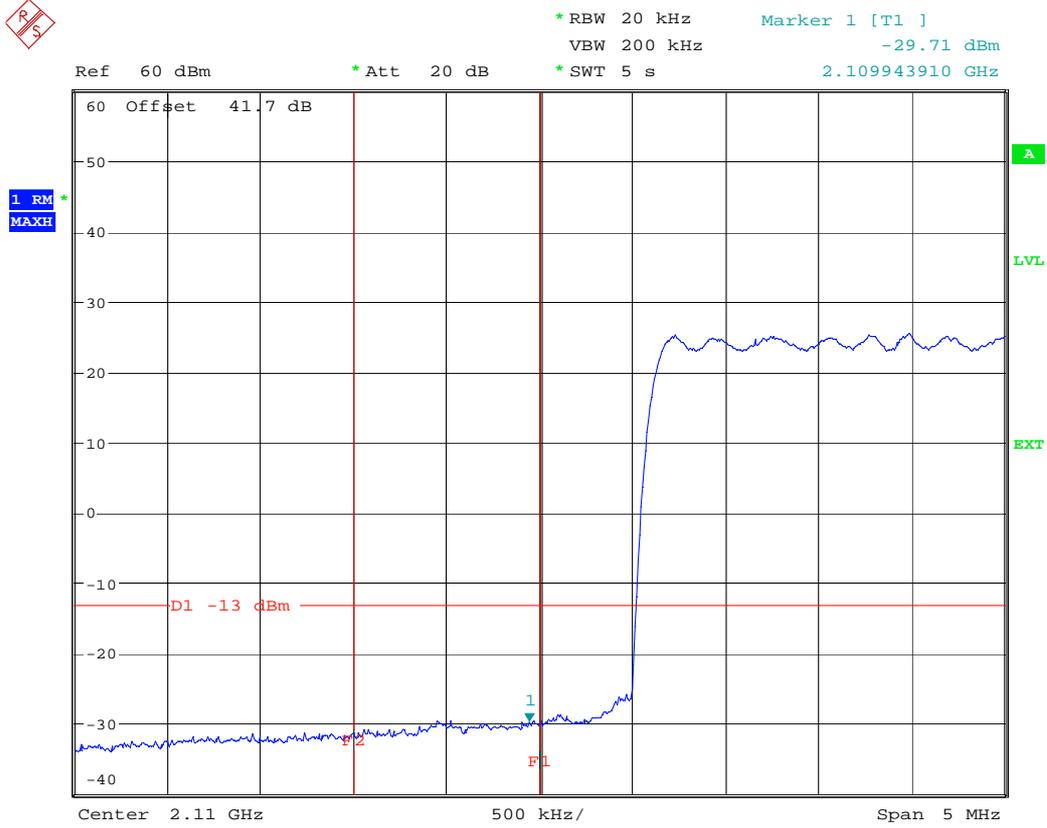
AB

Date: 18.APR.2008 12:26:24



B. Multiple Carriers:

Channel Number: 25/50/75/100

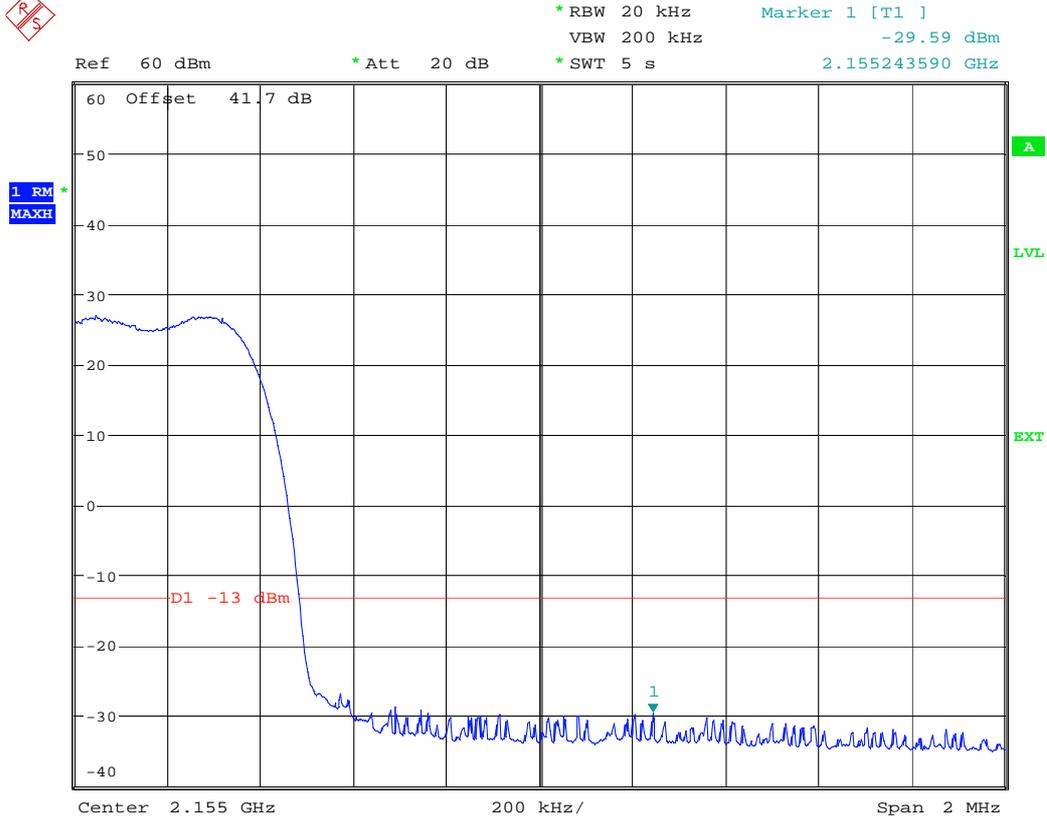


AB

Date: 18.APR.2008 14:48:11



Channel 875 (2153.75 MHz)



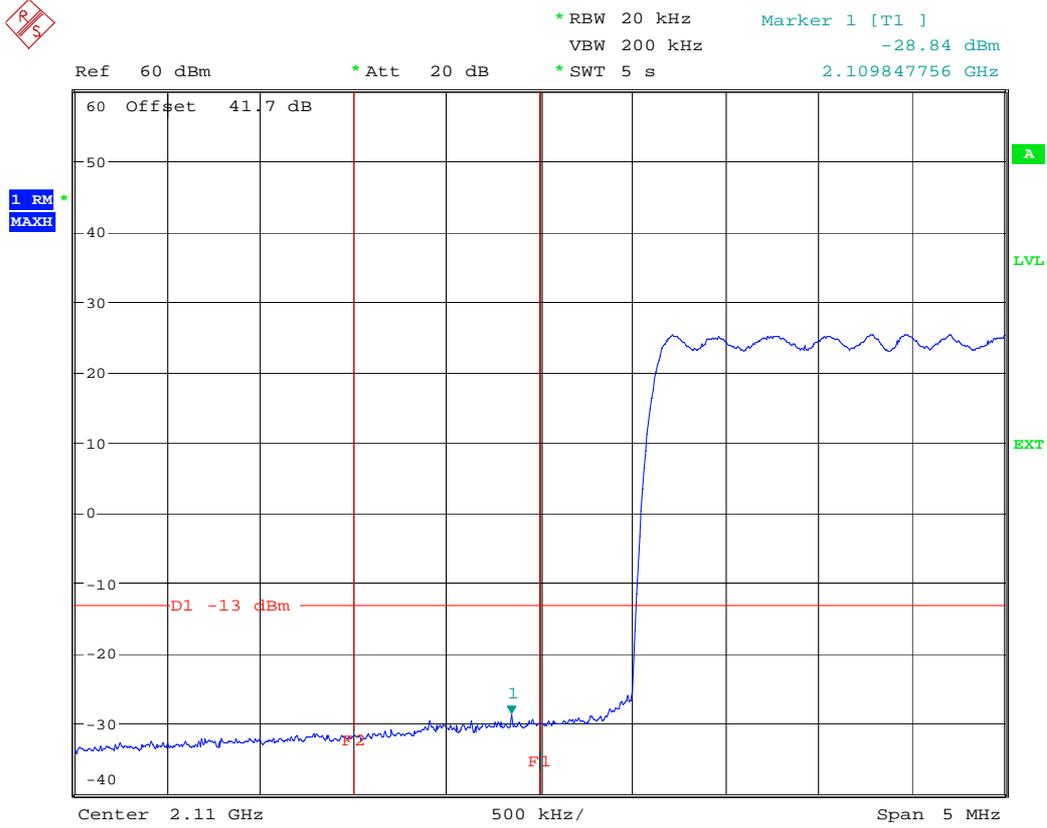
AB

Date: 17.APR.2008 18:41:02



B. Multiple Carriers:

Channel Number: 25/50/75/100



AB

Date: 18.APR.2008 10:40:52



Appendix D

Conducted Spurious Emission Measurements

According to FCC Part 2.1051 & 27.53(g)

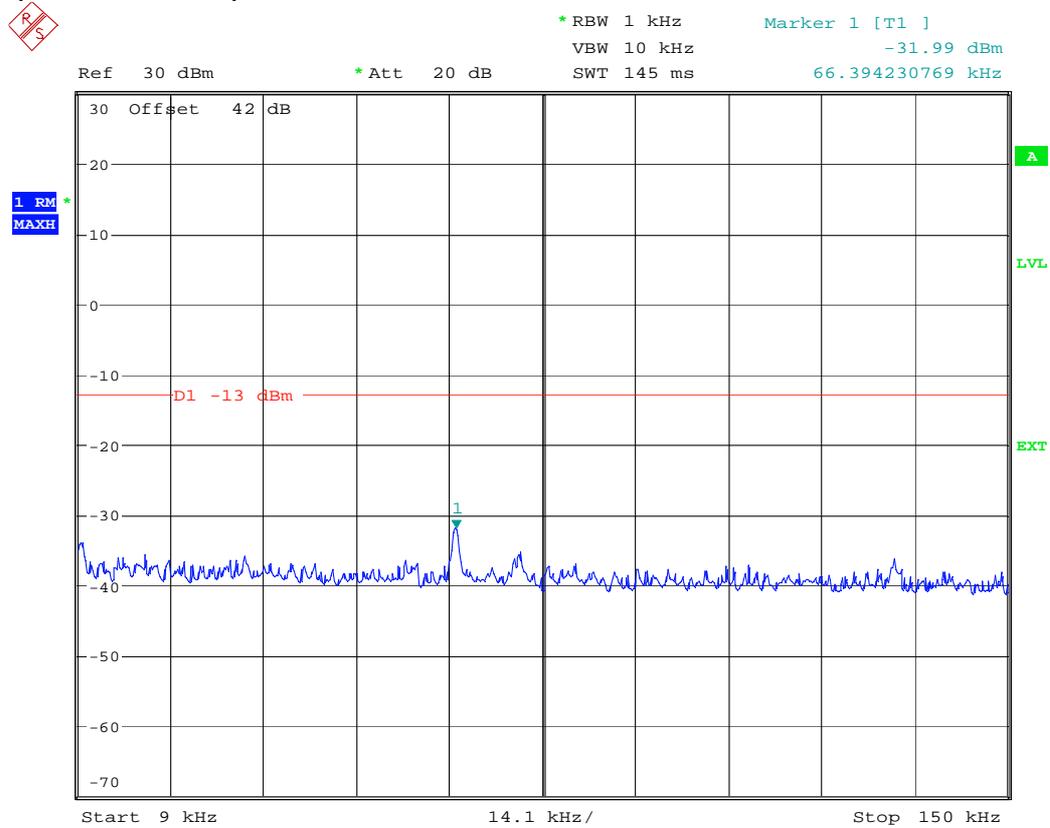


CDMA2000 1X:

A. Single Carrier

Channel Number: 25

(9k ~ 150k)

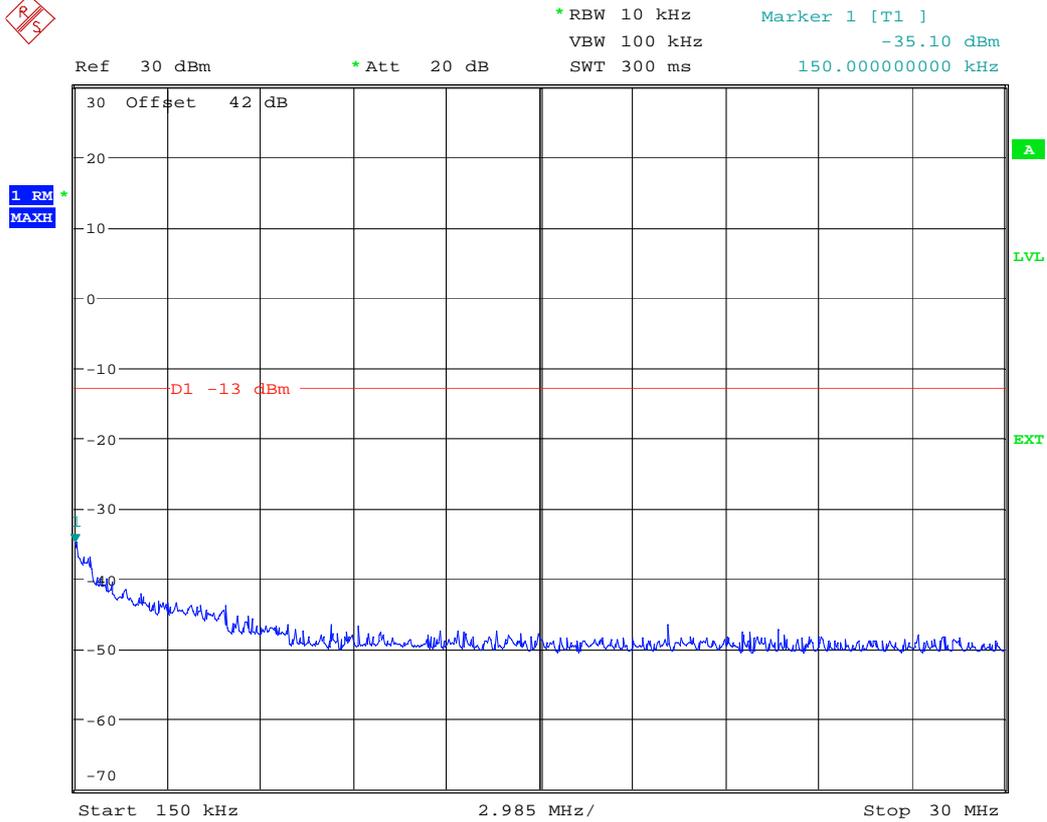


AB

Date: 18.APR.2008 12:42:34



(150k ~ 30M)

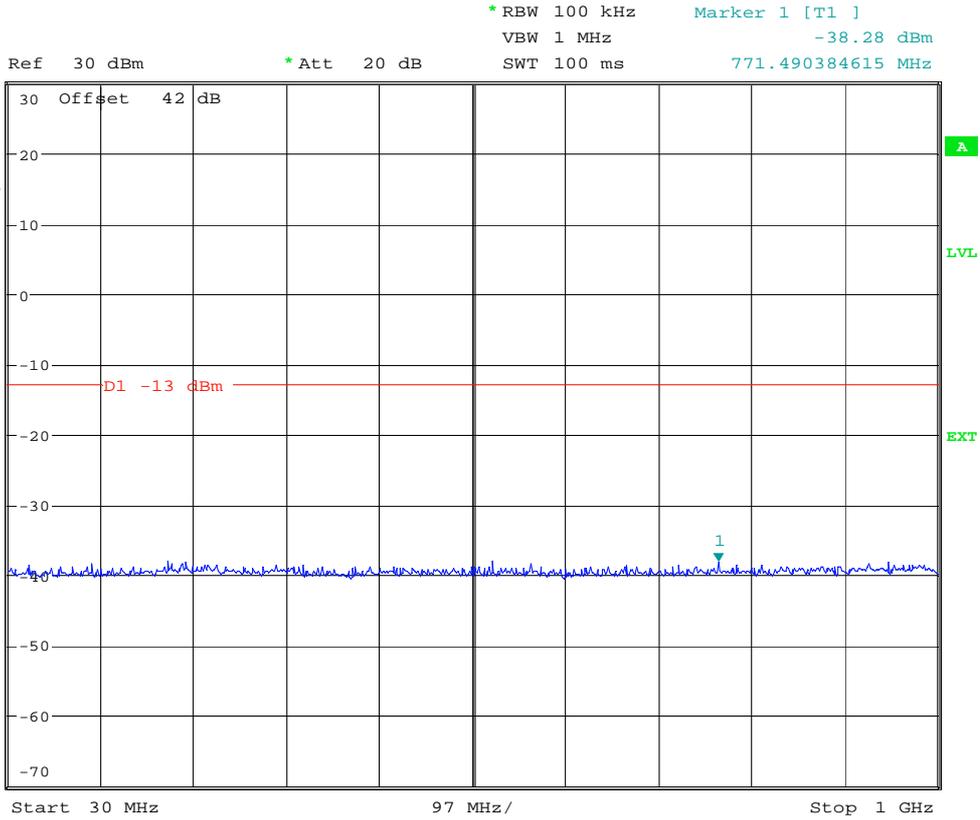


AB

Date: 18.APR.2008 12:43:19



(30M ~ 1G)

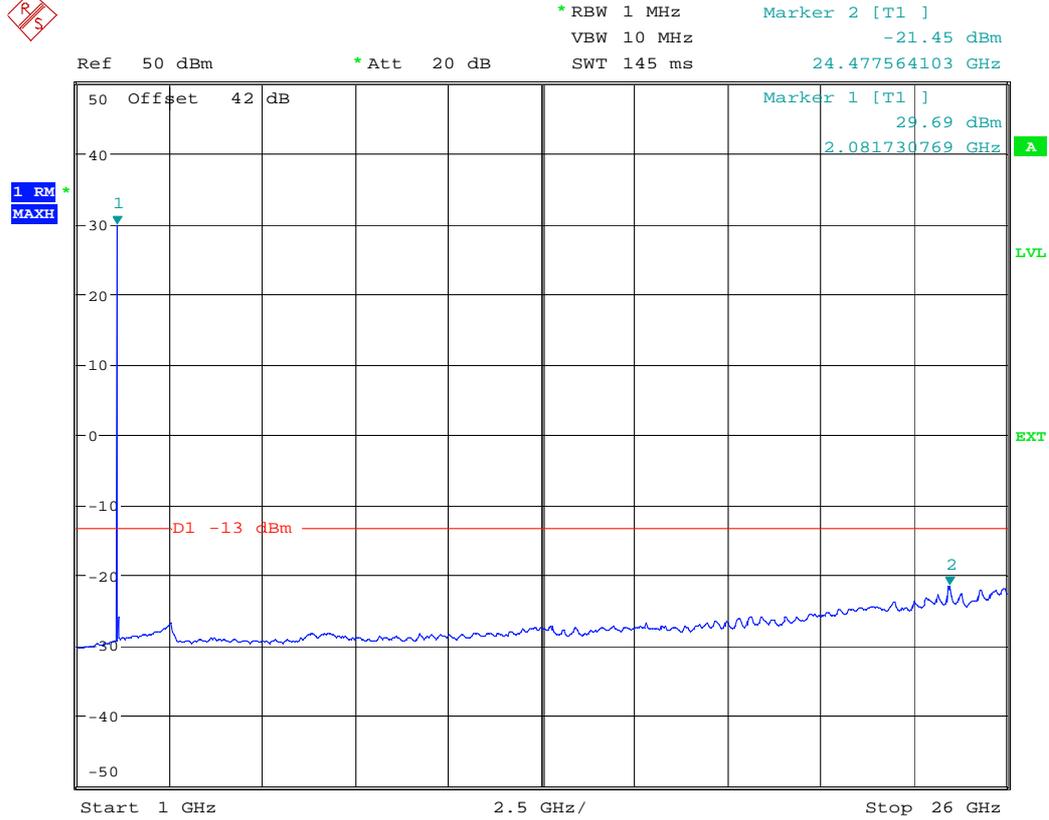


AB

Date: 18.APR.2008 12:44:00



(1G ~ 26G)



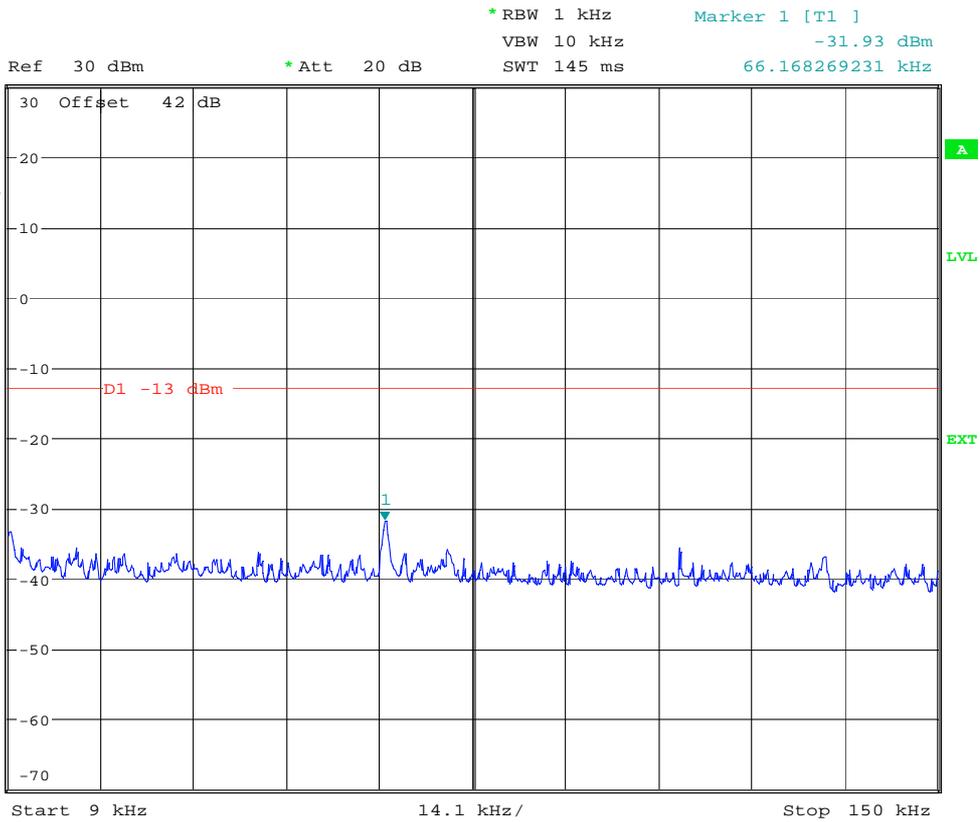
AB

Date: 18.APR.2008 12:44:48



Channel Number: 450

(9k ~ 150k)

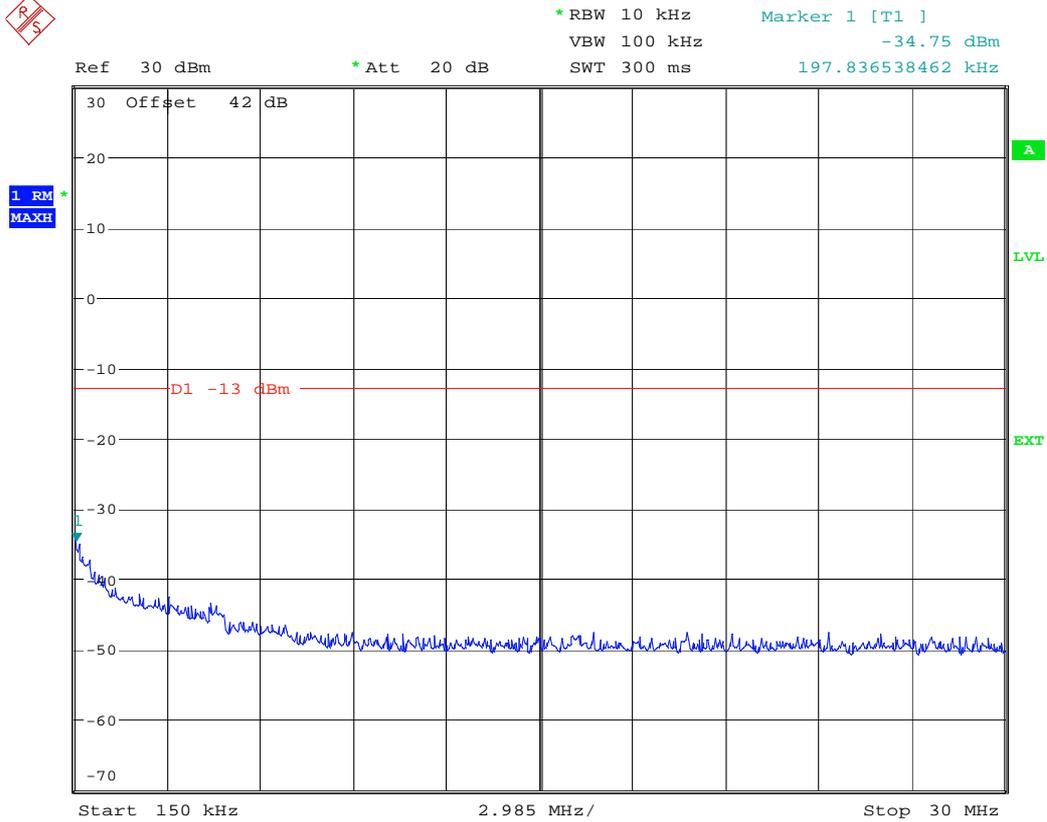


AB

Date: 18.APR.2008 12:07:05



(150k ~ 30M)

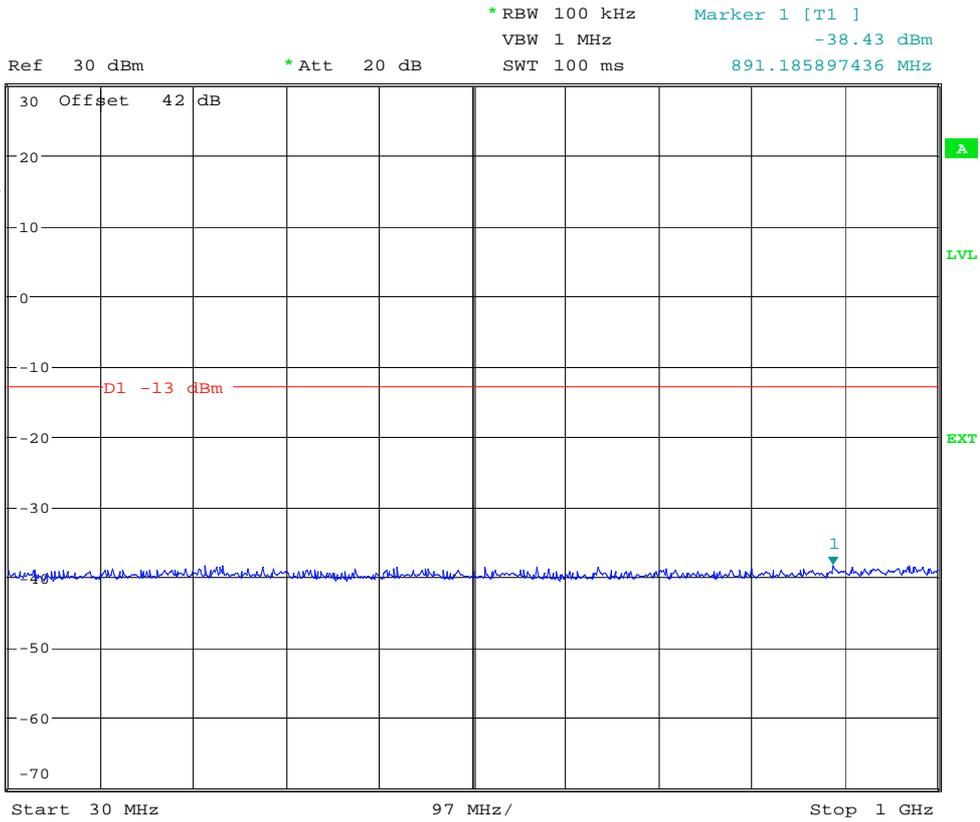


AB

Date: 18.APR.2008 12:08:02



(30M ~ 1G)

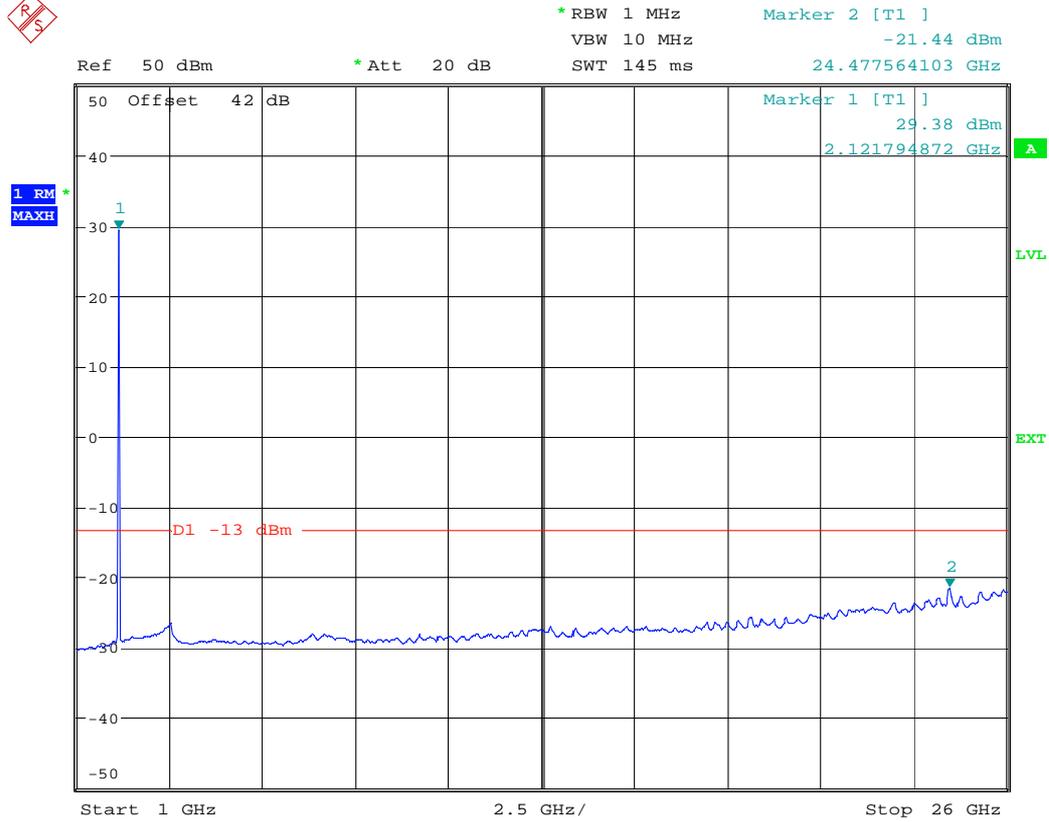


AB

Date: 18.APR.2008 12:08:37



(1G ~ 26G)



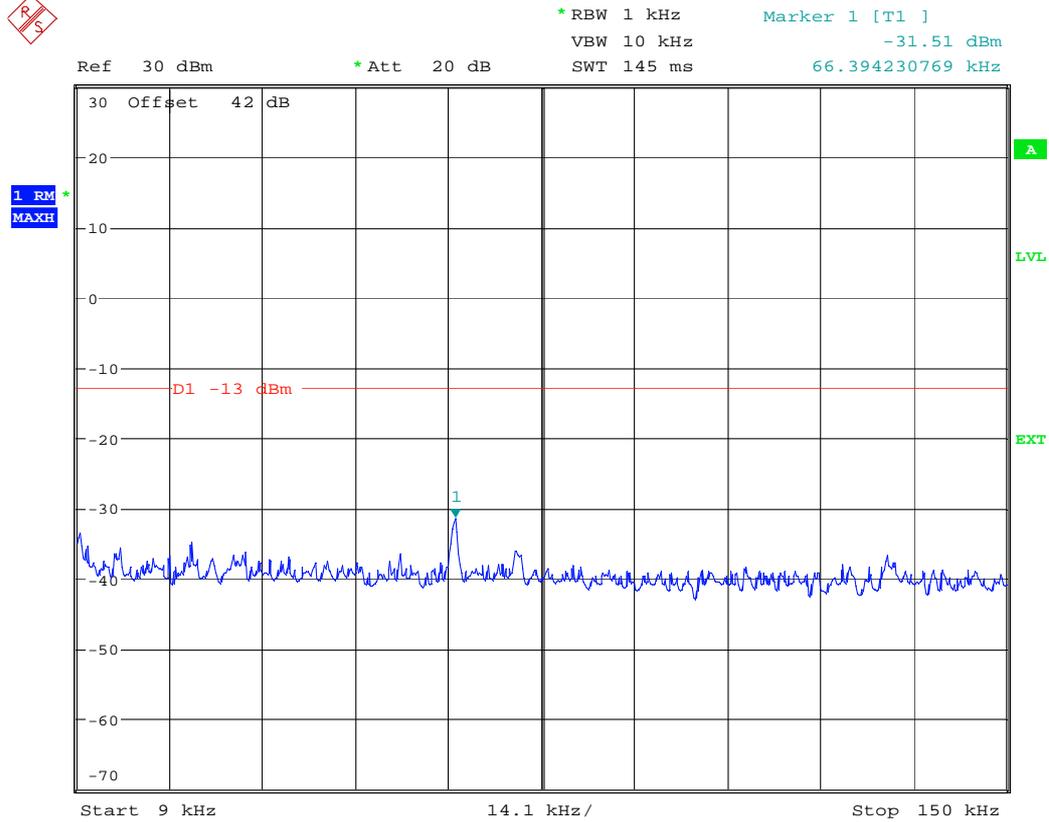
AB

Date: 18.APR.2008 12:09:58



Channel Number: 875

(9k ~ 150k)

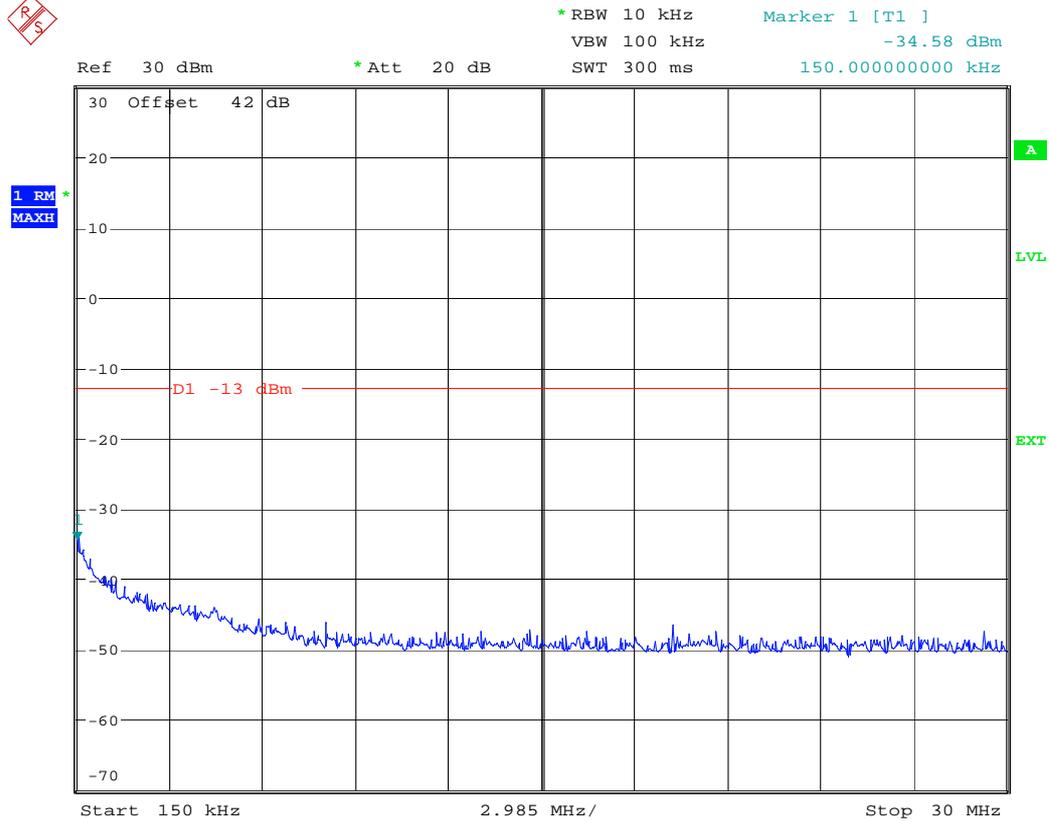


AB

Date: 18.APR.2008 12:28:45



(150k ~ 30M)

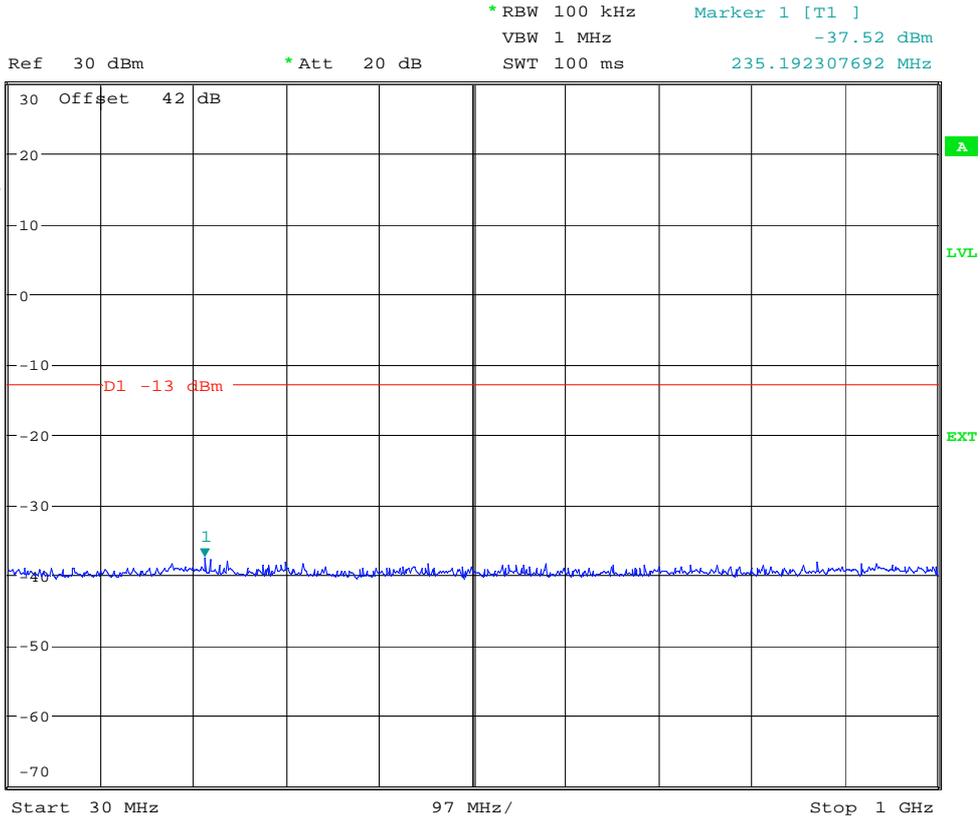


AB

Date: 18.APR.2008 12:29:34



(30M ~ 1G)

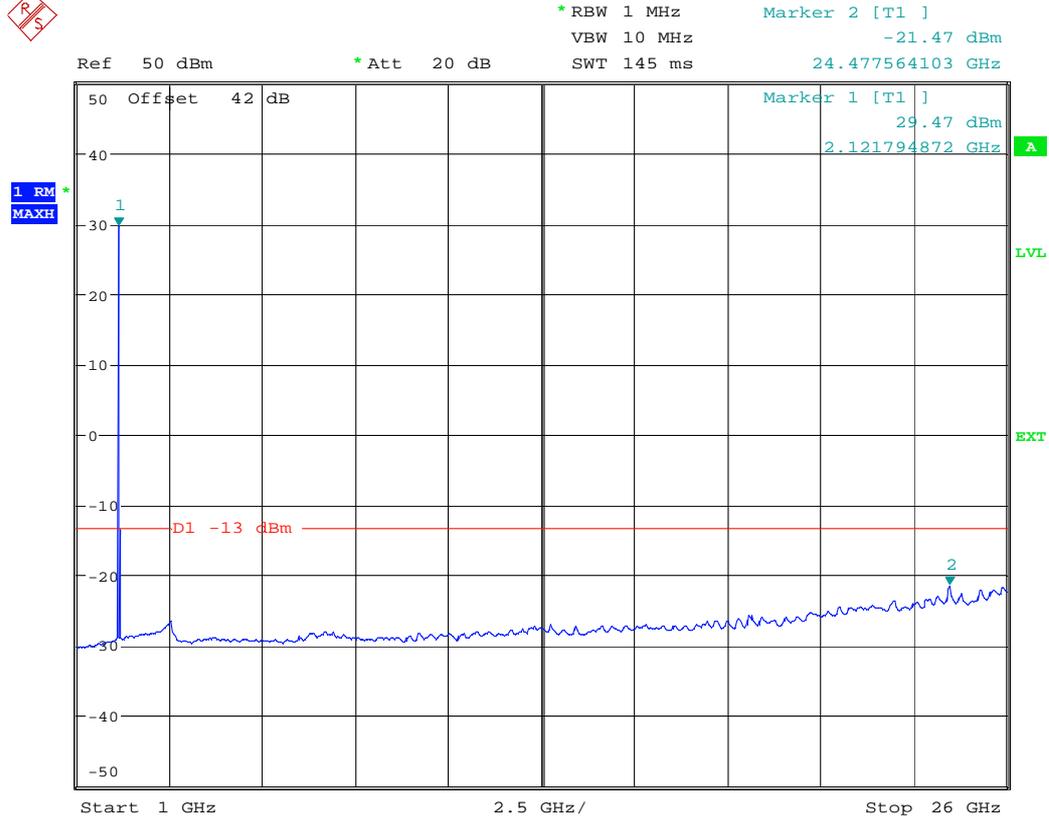


AB

Date: 18.APR.2008 12:30:16



(1G ~ 26G)



AB

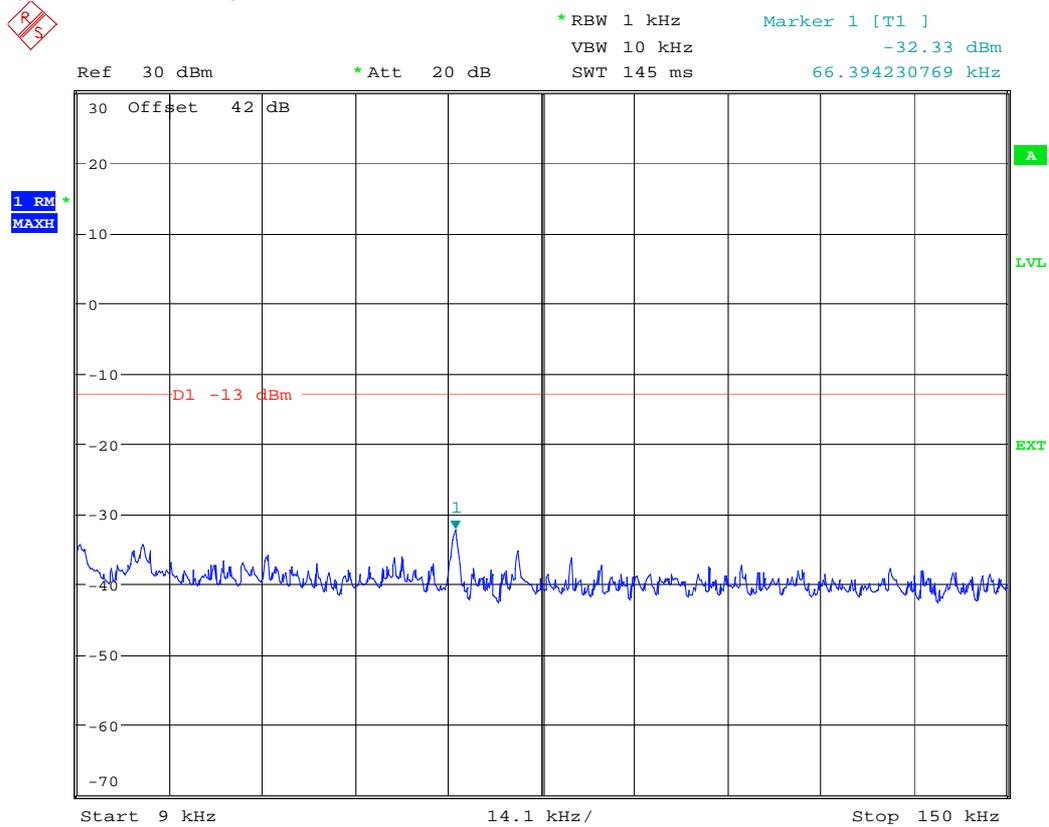
Date: 18.APR.2008 12:31:30



B. Multiple Carriers:

Channel Number: 25/50/75/100

(9k ~ 150k)

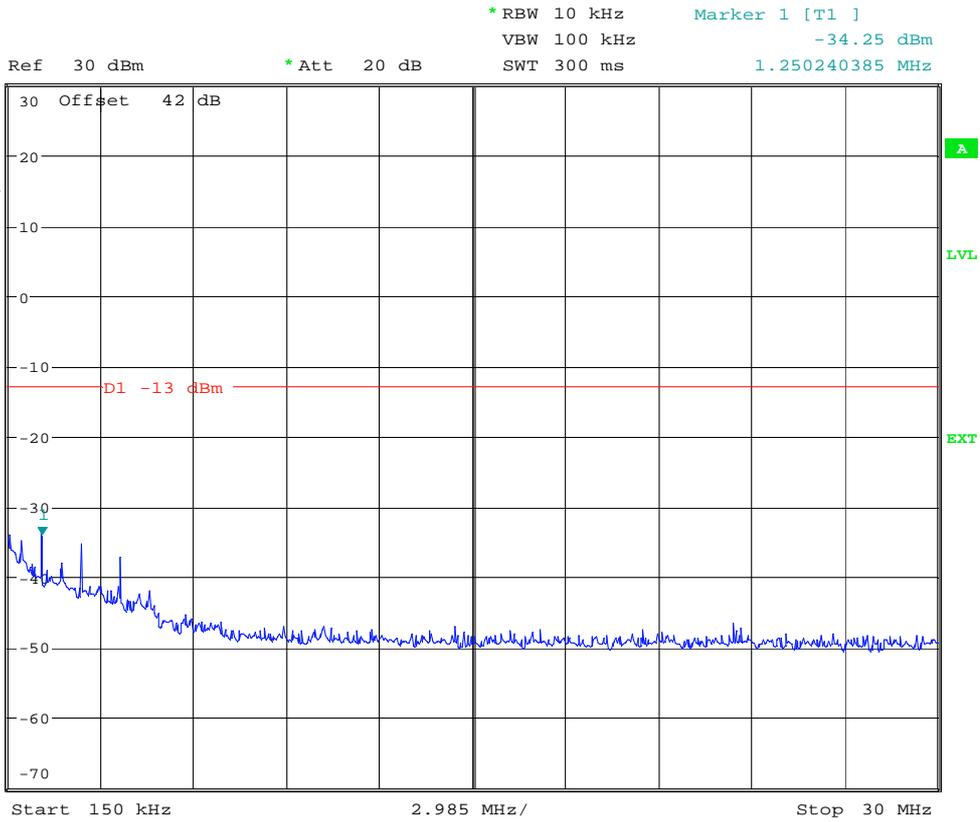


AB

Date: 18.APR.2008 14:52:06



(150k ~ 30M)

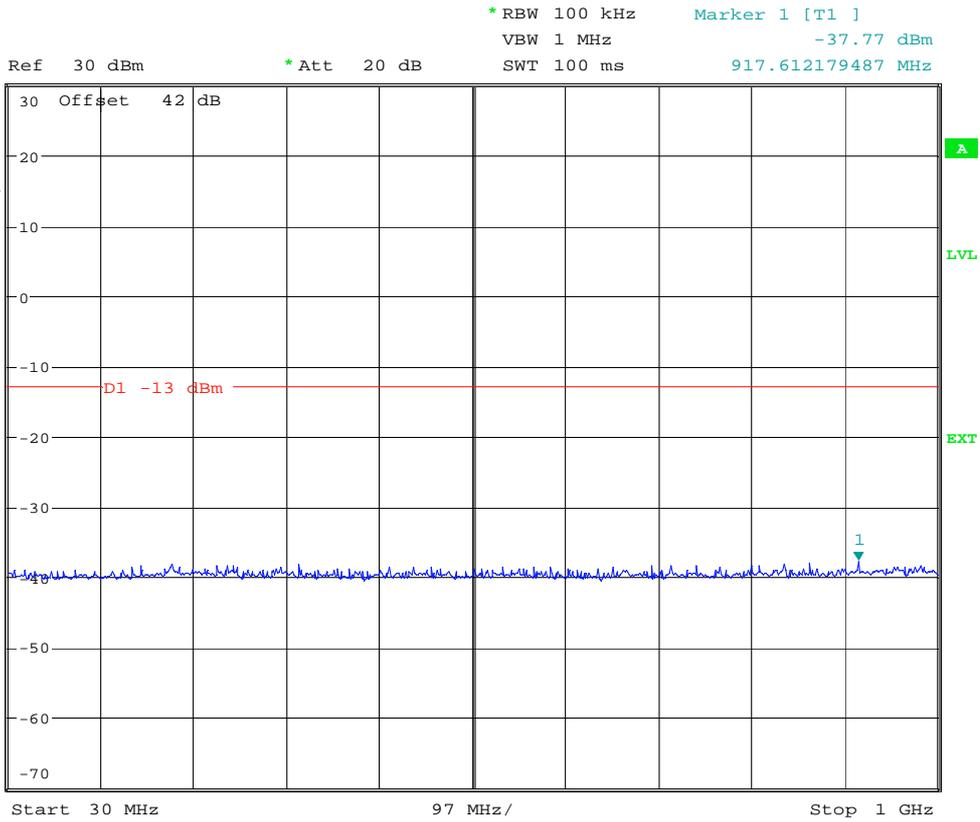


AB

Date: 18.APR.2008 14:51:34



(30M ~ 1G)

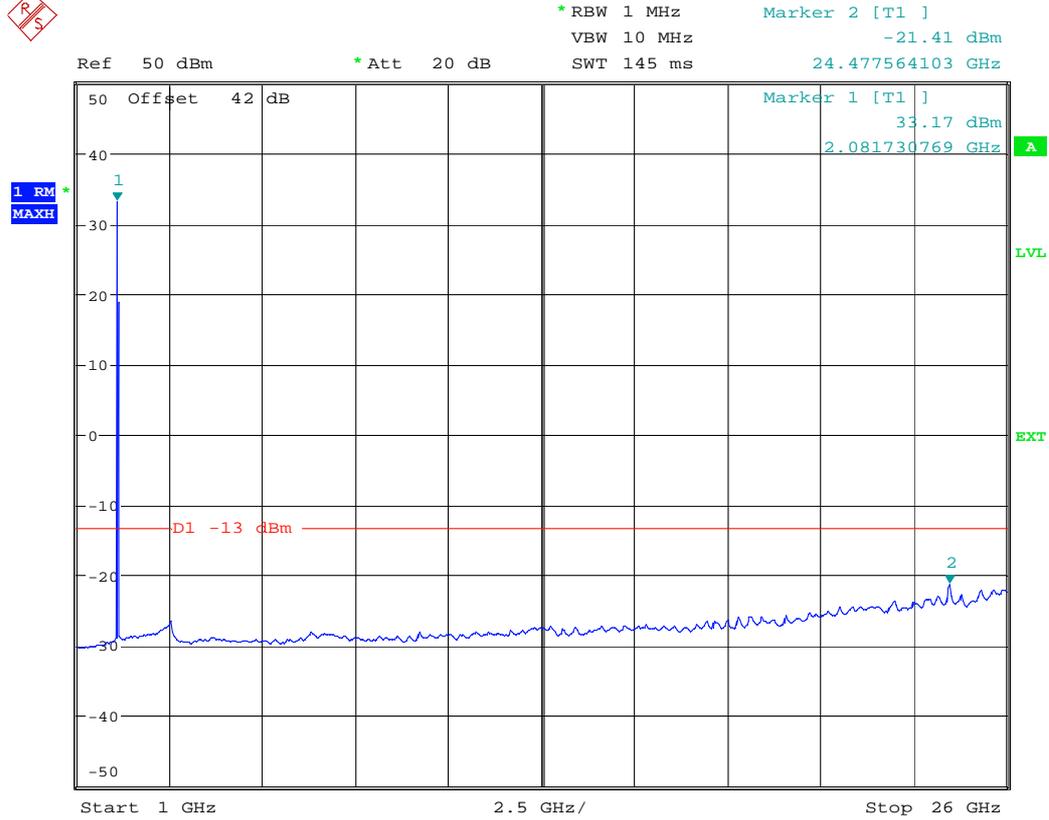


AB

Date: 18.APR.2008 14:52:45



(1G ~ 26G)

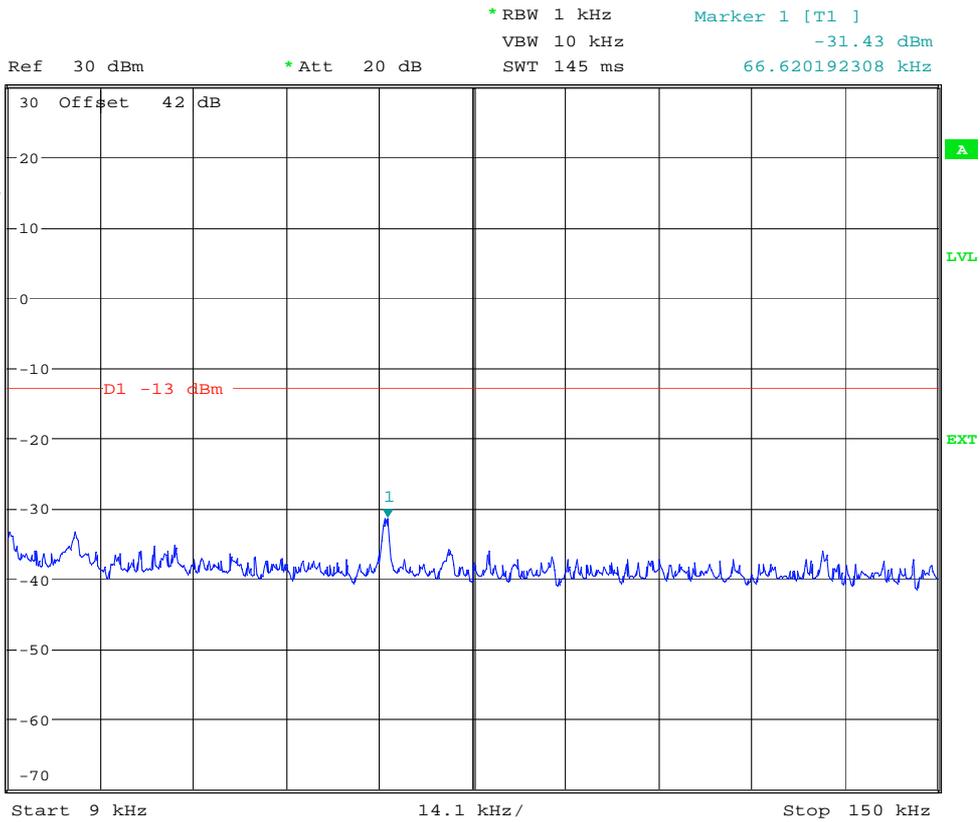


AB

Date: 18.APR.2008 14:53:48



Channel Number: 400/425/450/475 (9k ~ 150k)

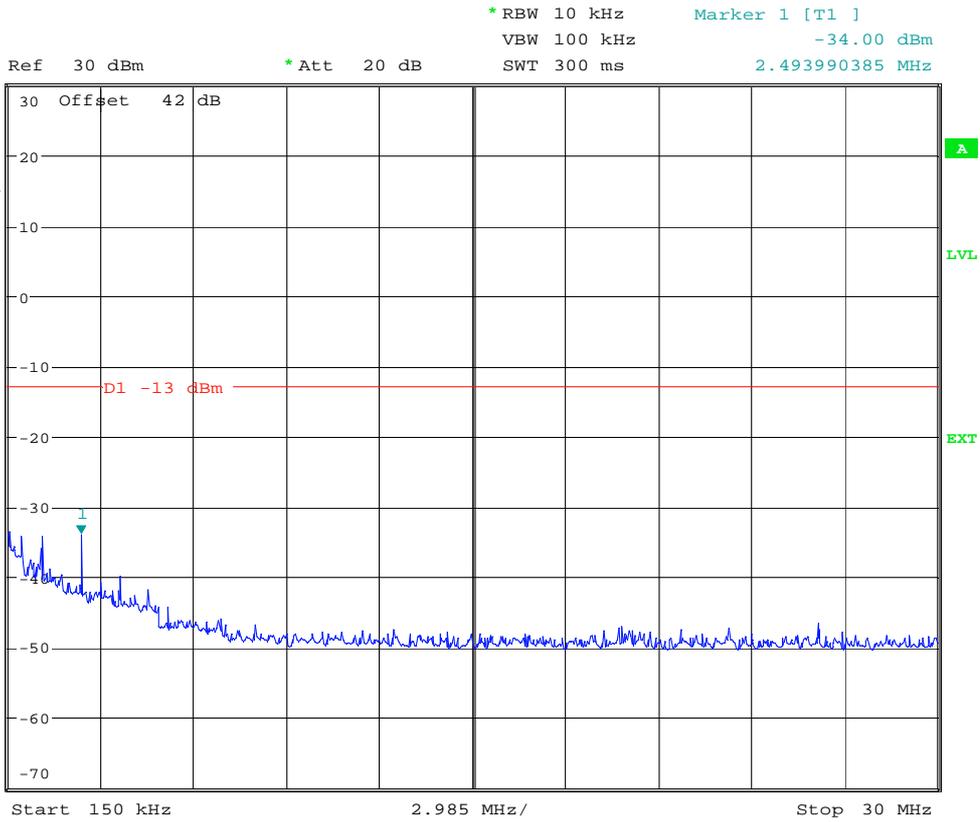


AB

Date: 18.APR.2008 15:05:12



(150k ~ 30M)

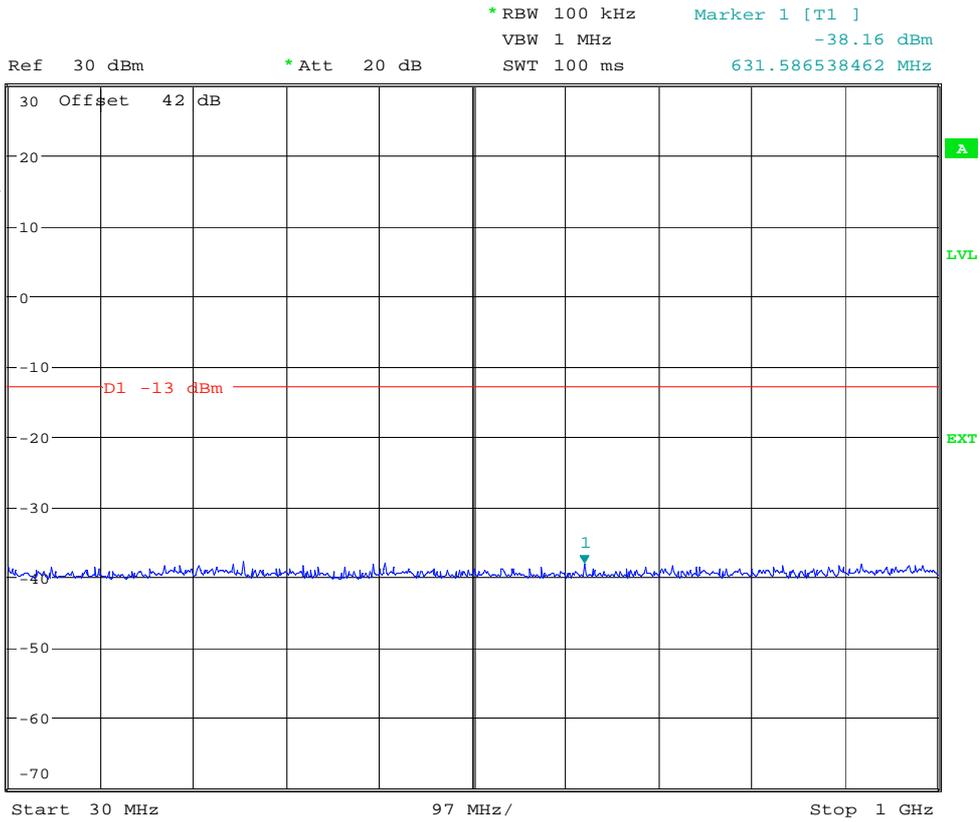


AB

Date: 18.APR.2008 15:06:11



(30M ~ 1G)

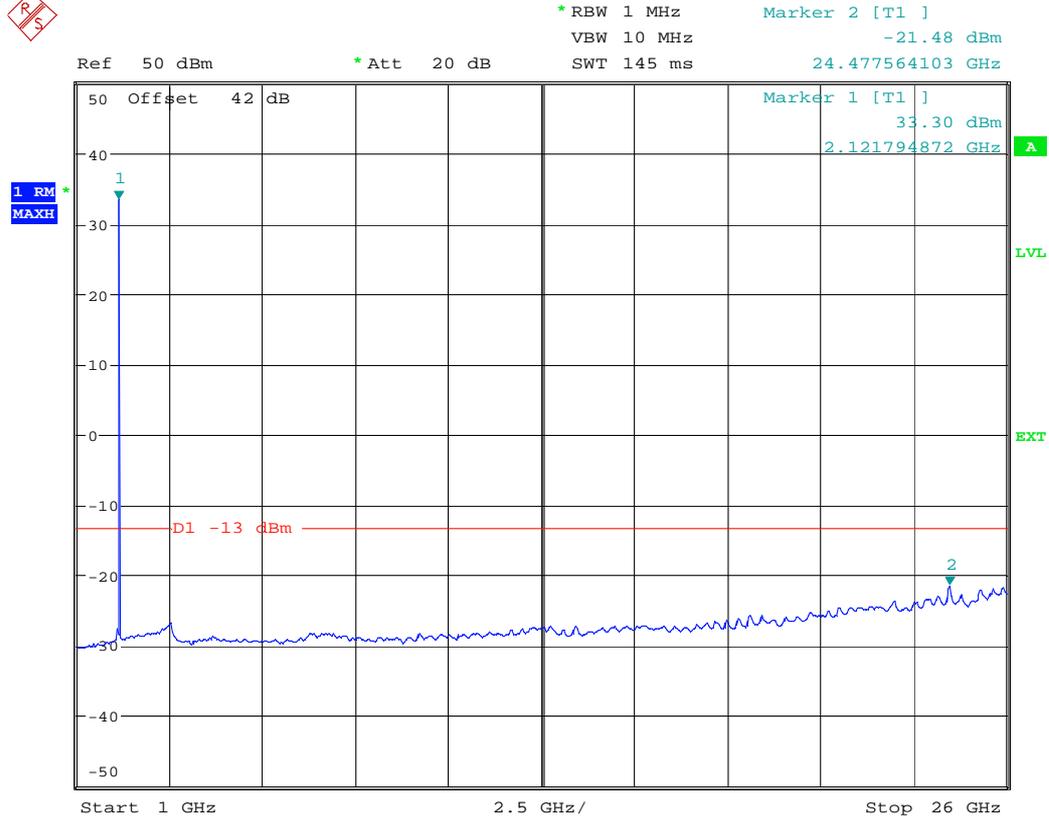


AB

Date: 18.APR.2008 15:07:13



(1G ~ 26G)



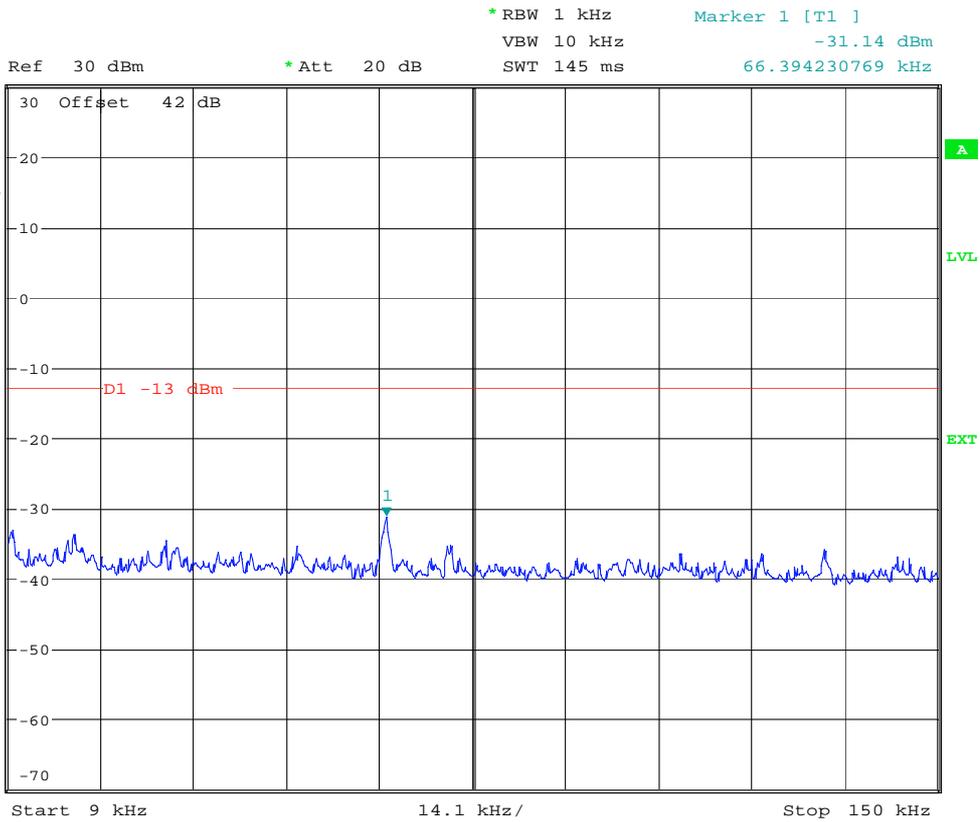
AB

Date: 18.APR.2008 15:08:03



Channel Number: 800/825/850/875

(9k ~ 150k)

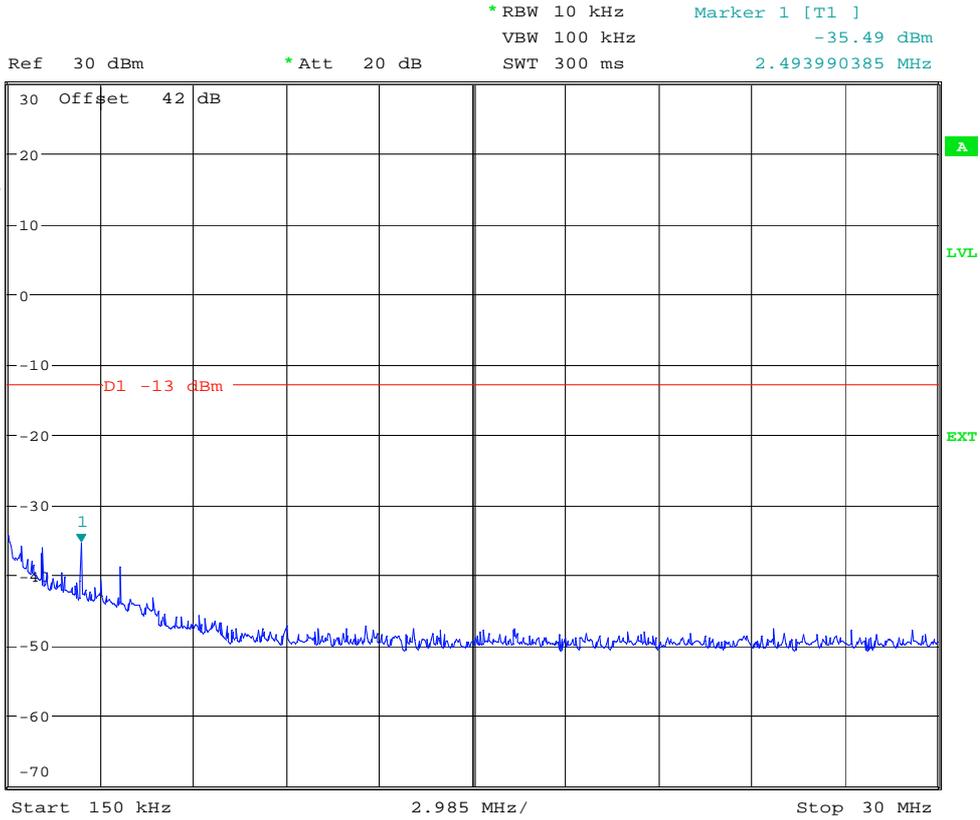


AB

Date: 18.APR.2008 15:22:59



(150k ~ 30M)

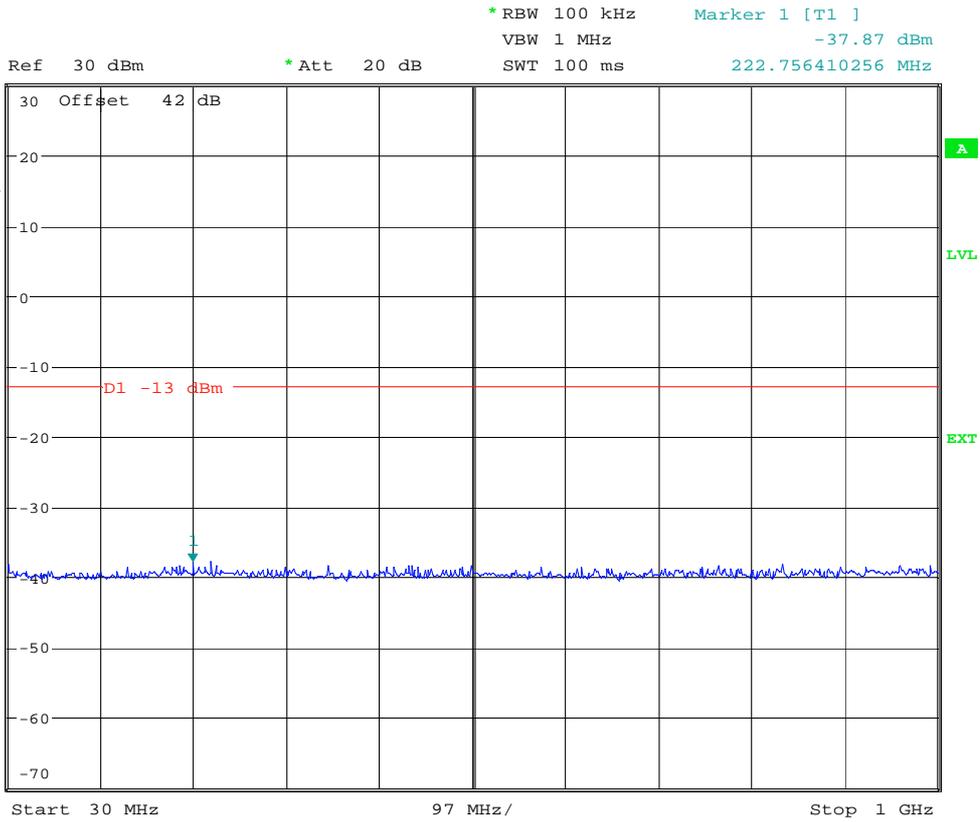


AB

Date: 18.APR.2008 15:23:53



(30M ~ 1G)

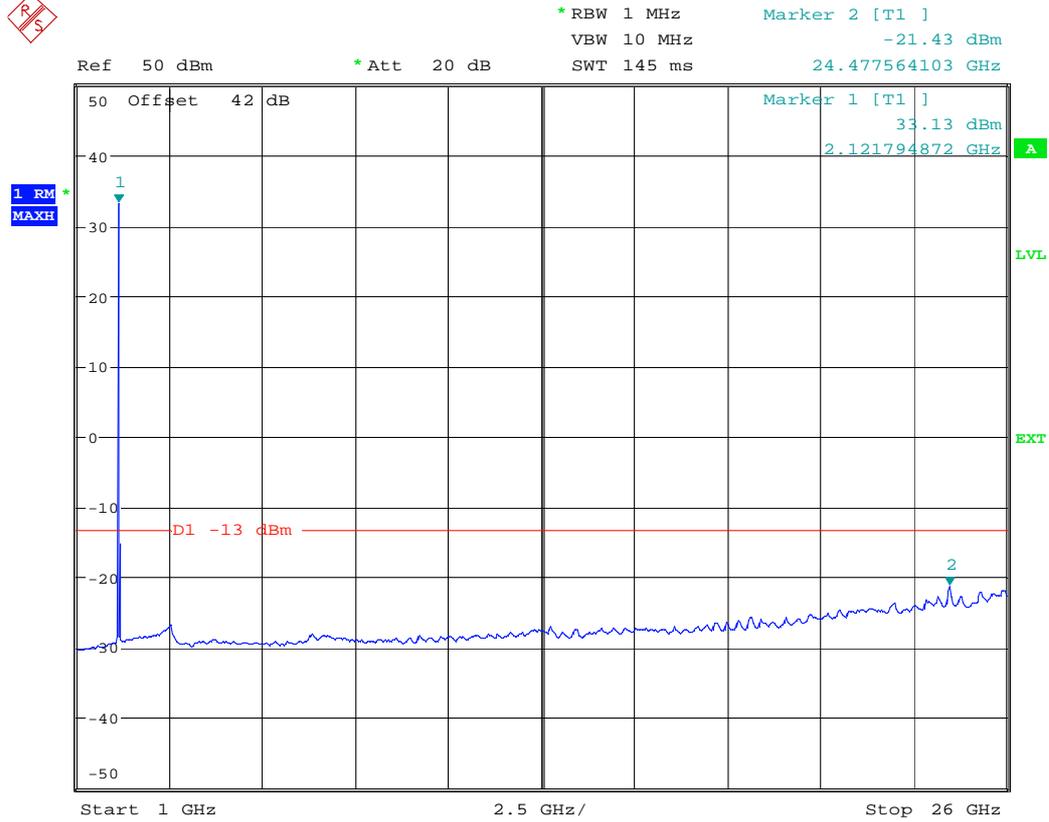


AB

Date: 18.APR.2008 15:24:30



(1G ~ 26G)



AB

Date: 18.APR.2008 15:25:19

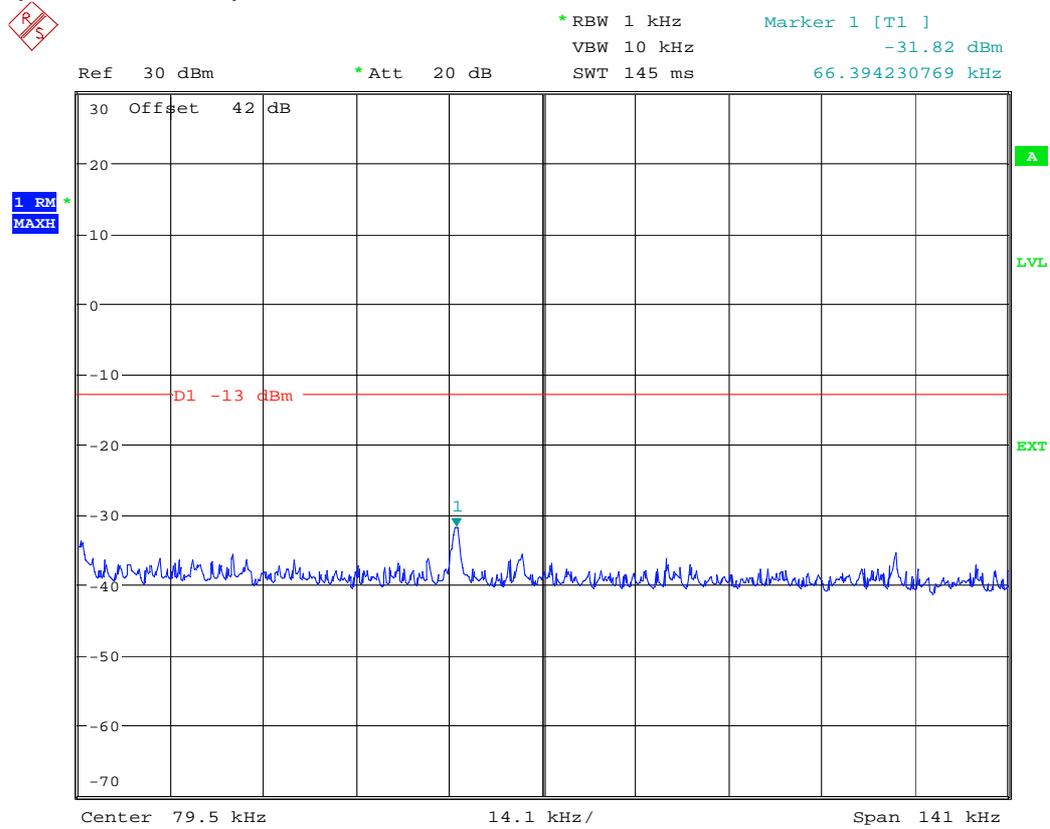


CDMA2000 1X EV-DO

A. Single Carrier

Channel Number: 25

(9k ~ 150k)

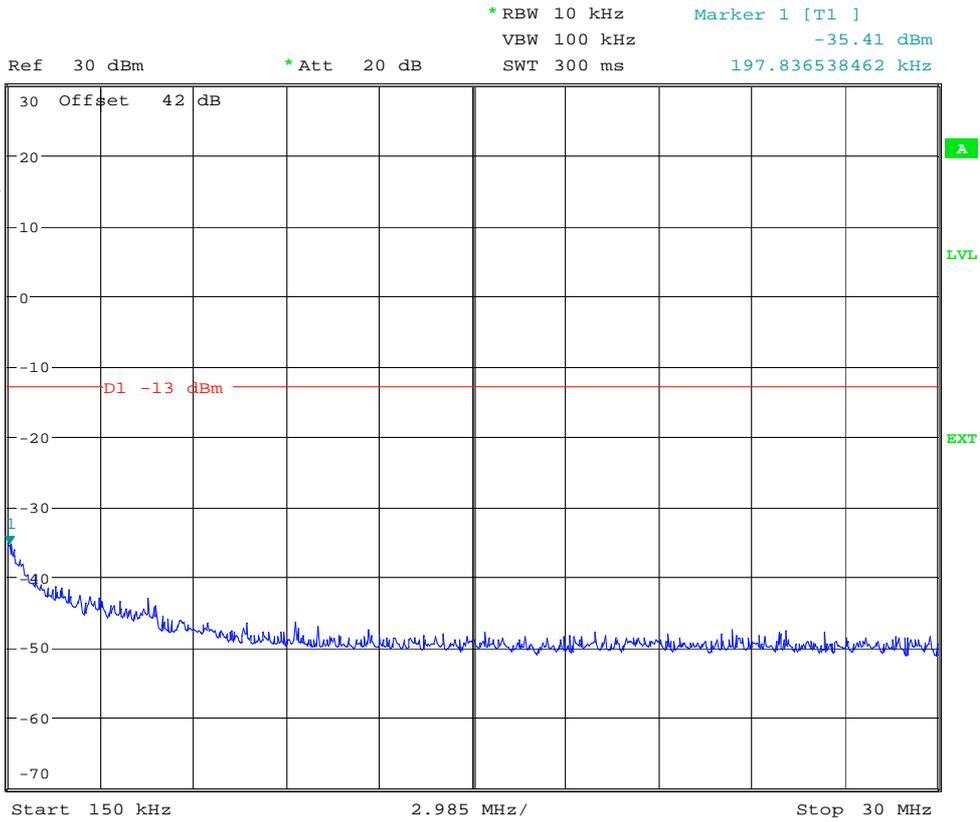


AB

Date: 17.APR.2008 17:59:44



(150k ~ 30M)

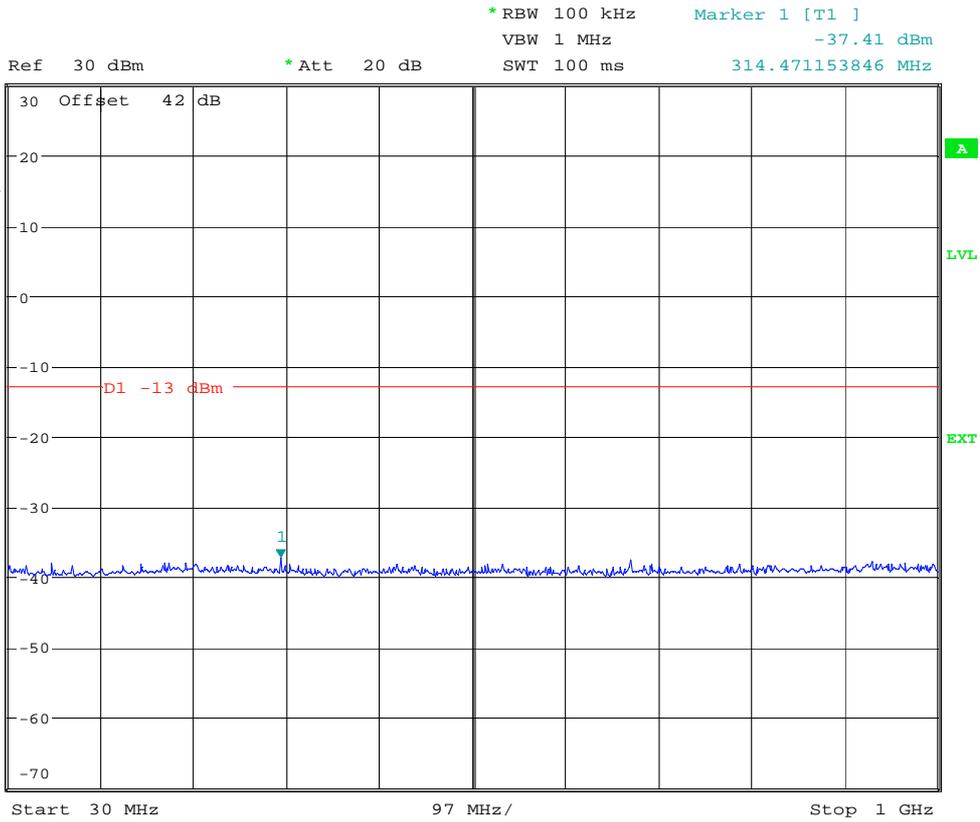


AB

Date: 17.APR.2008 18:01:04



(30M ~ 1G)

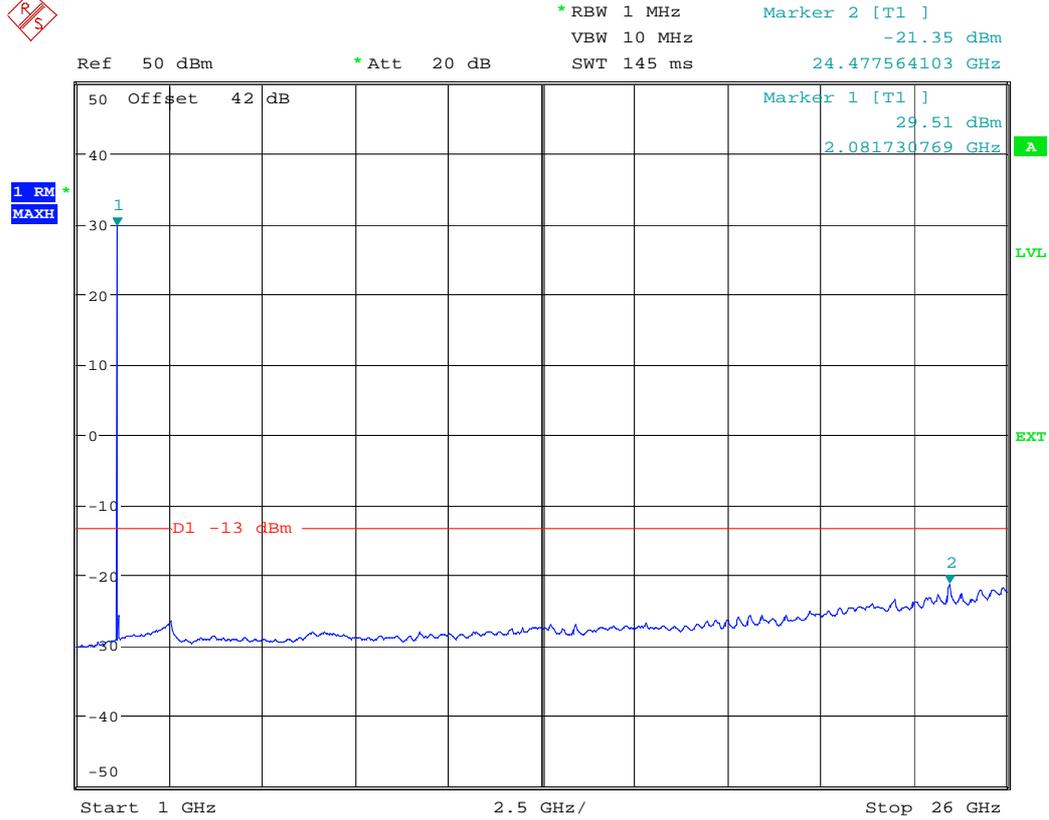


AB

Date: 17.APR.2008 18:03:34



(1G ~ 26G)



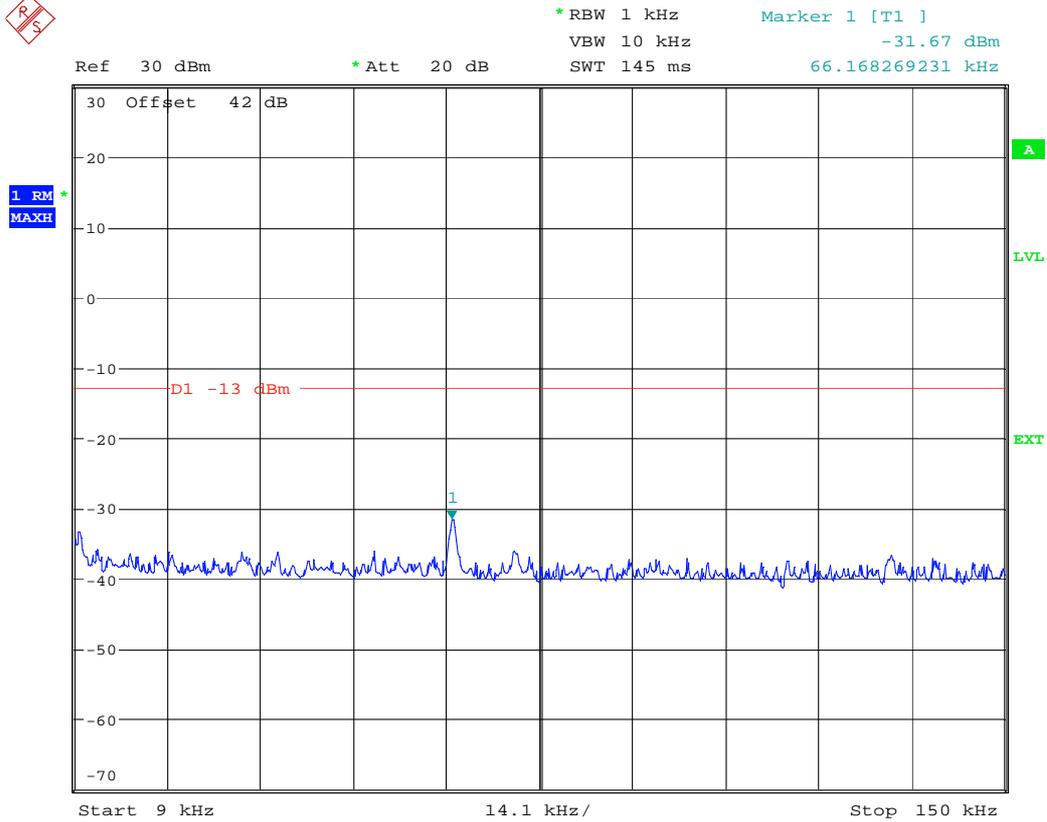
AB

Date: 17.APR.2008 18:06:00



Channel Number: 450

(9k ~ 150k)

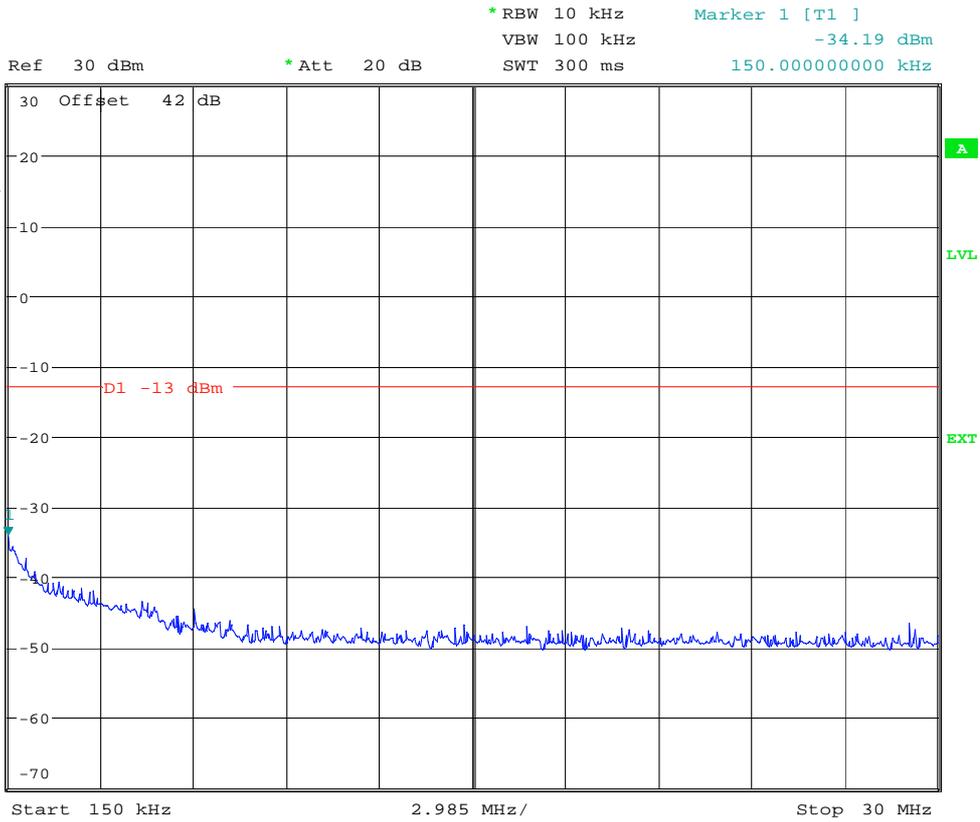


AB

Date: 17.APR.2008 18:26:07



(150k ~ 30M)

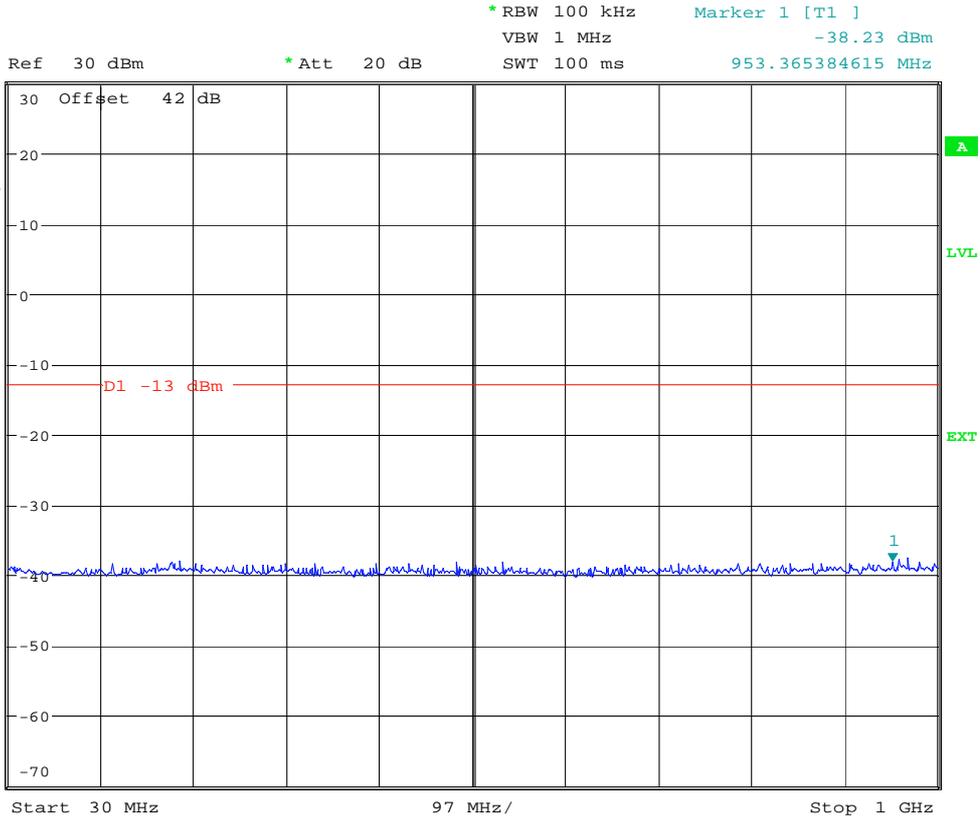


AB

Date: 17.APR.2008 18:27:20



(30M ~ 1G)

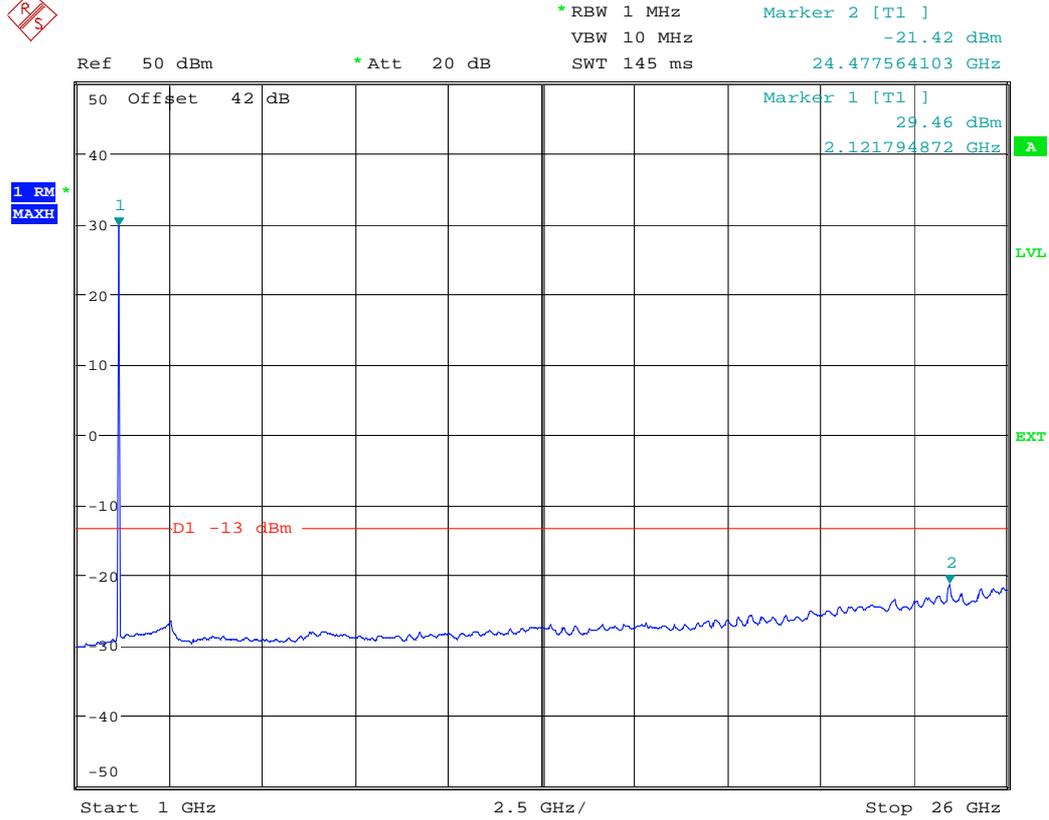


AB

Date: 17.APR.2008 18:28:27



(1G ~26G)



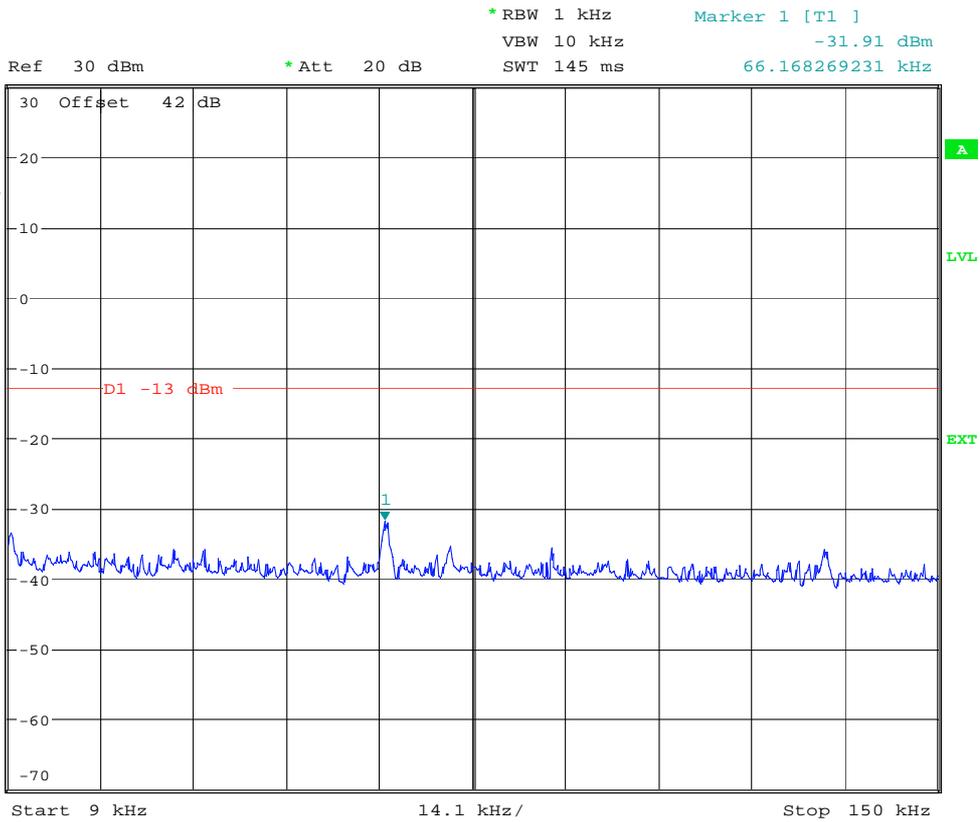
AB

Date: 17.APR.2008 18:30:39



Channel Number: 875

(9k ~ 150k)

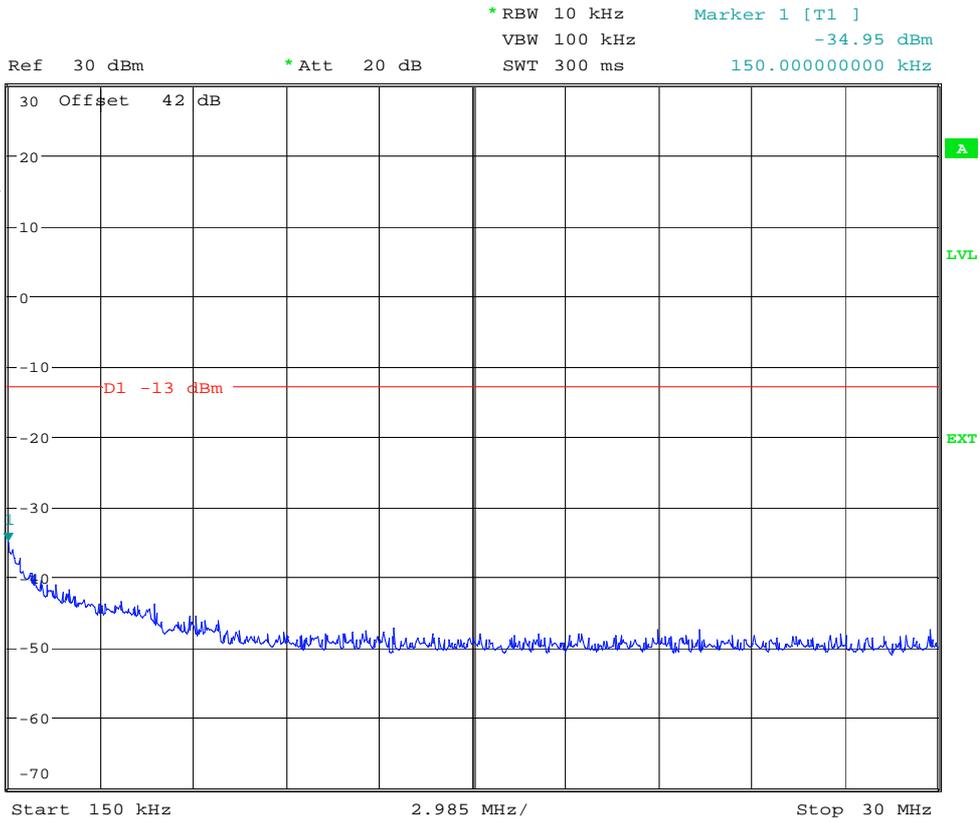


AB

Date: 17.APR.2008 18:43:36



(150k ~ 30M)

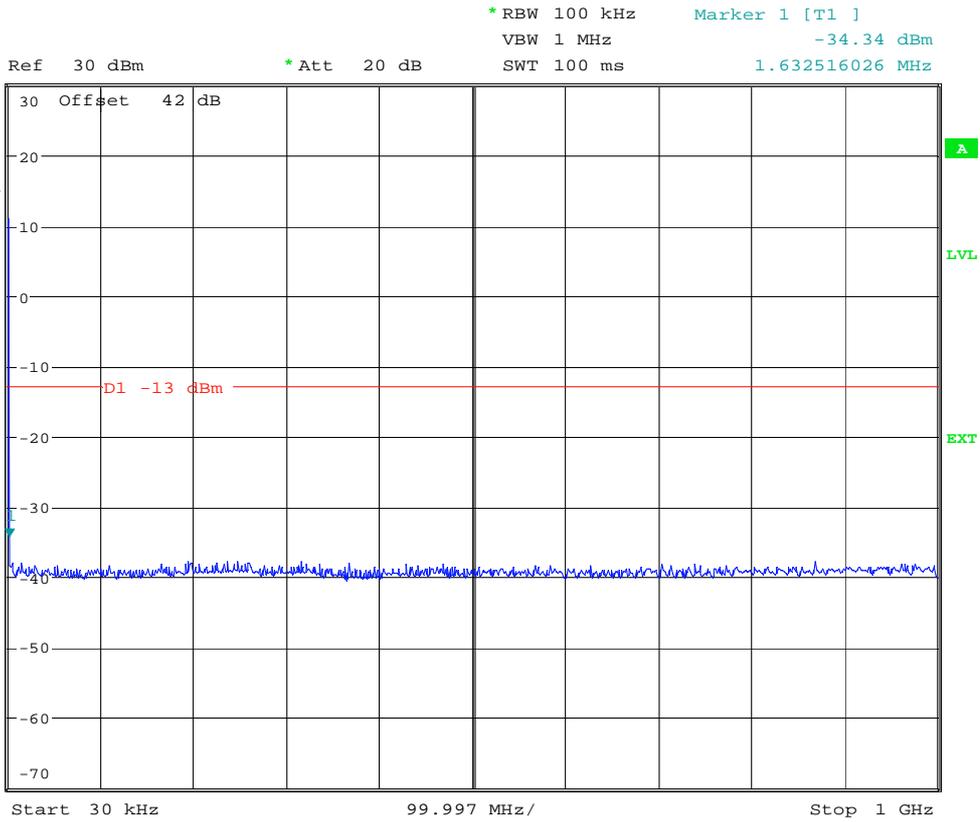


AB

Date: 17.APR.2008 18:44:23



(30M ~ 1G)

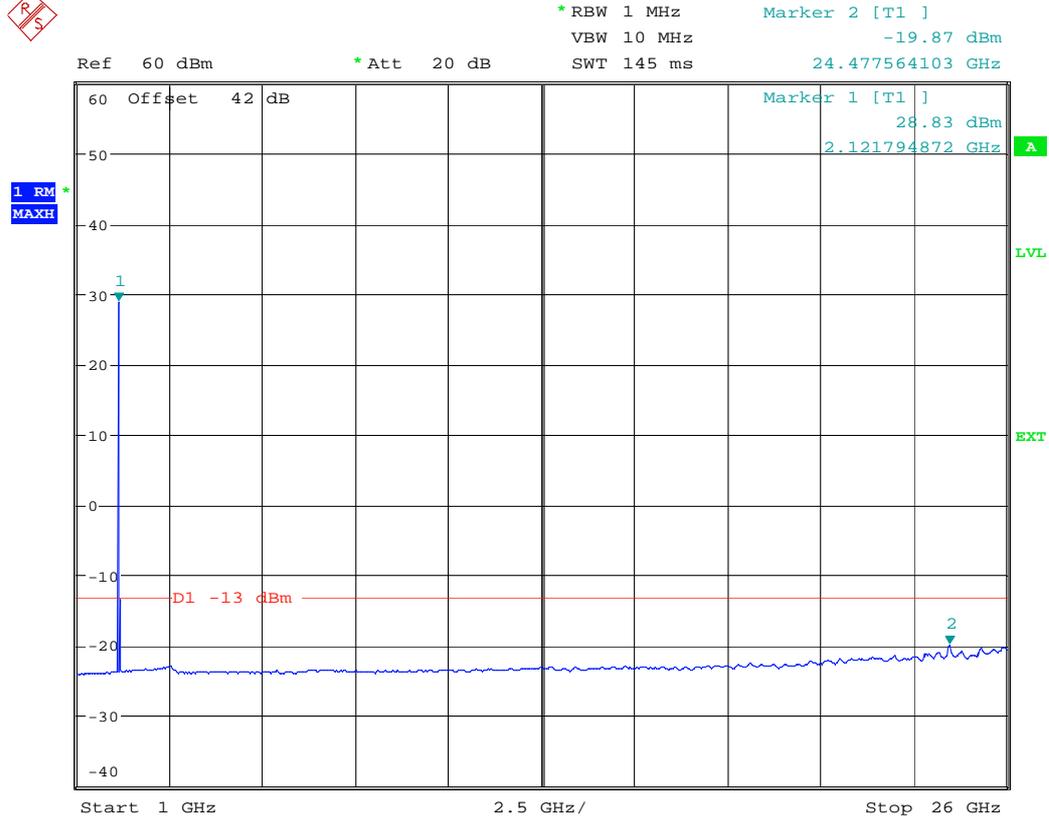


AB

Date: 17.APR.2008 18:46:15



(1G ~ 26G)



AB

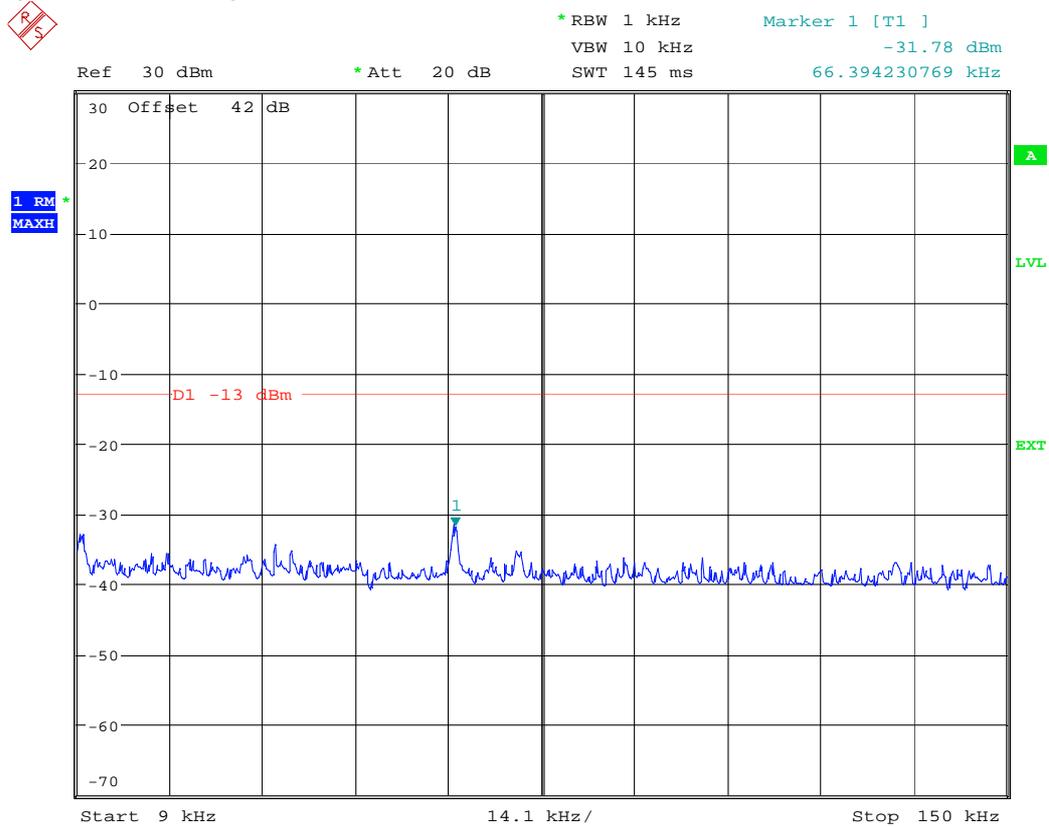
Date: 17.APR.2008 18:48:37



B. Multiple Carriers:

Channel Number: 25/50/75/100

(9k ~ 150k)

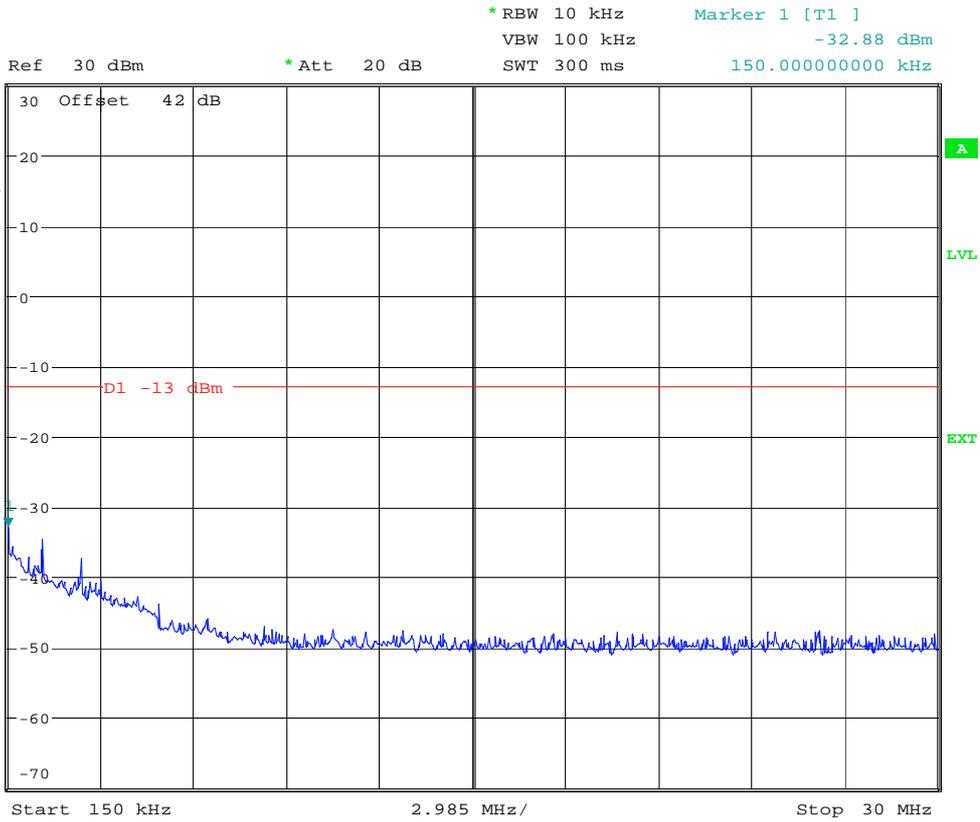


AB

Date: 18.APR.2008 10:43:20



(150k ~ 30M)

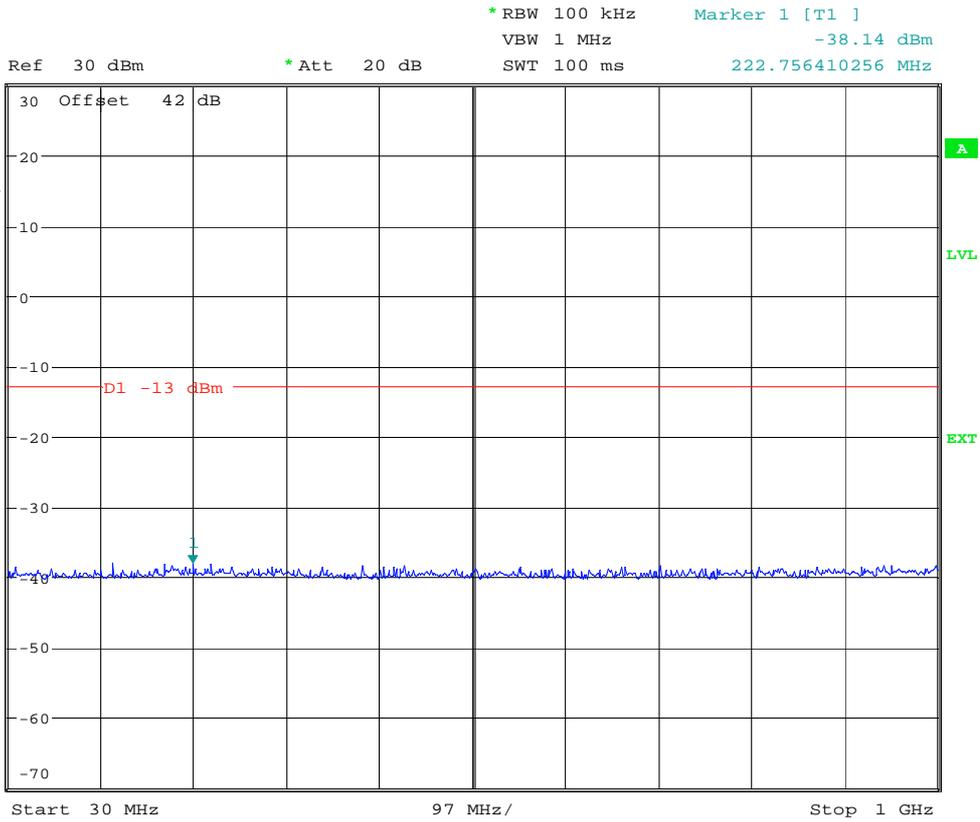


AB

Date: 18.APR.2008 10:43:59



(30M ~ 1G)

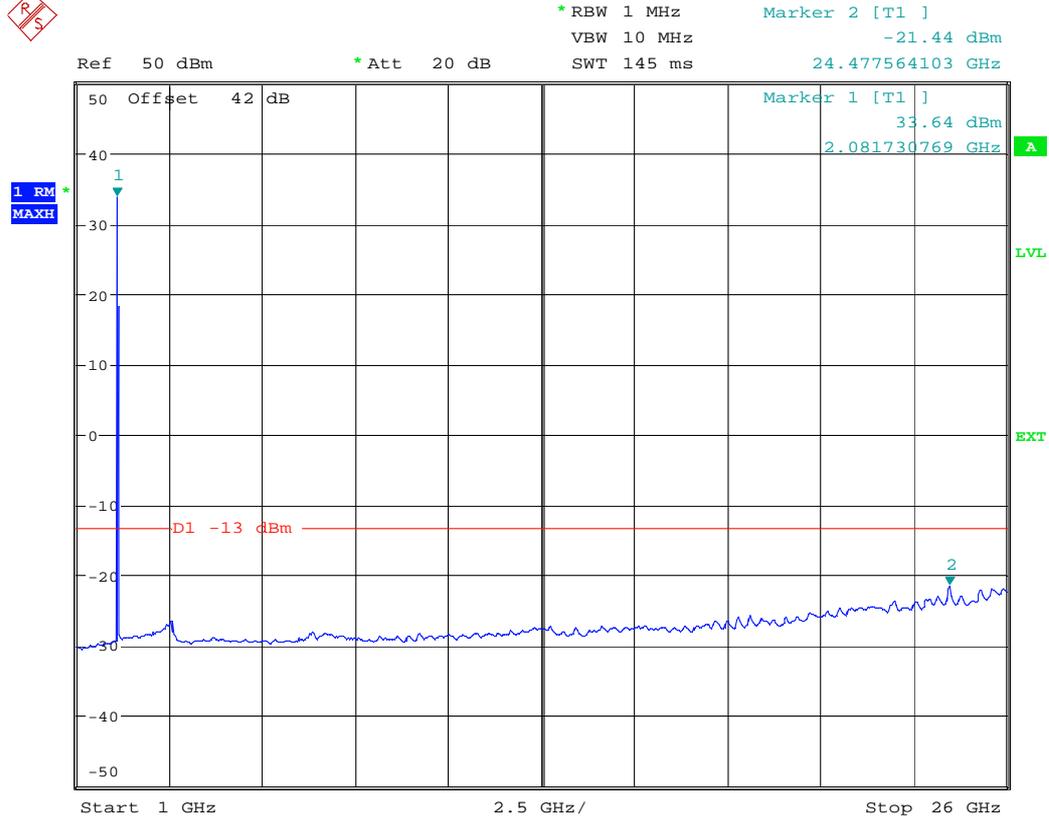


AB

Date: 18.APR.2008 10:44:49



(1G ~ 26G)



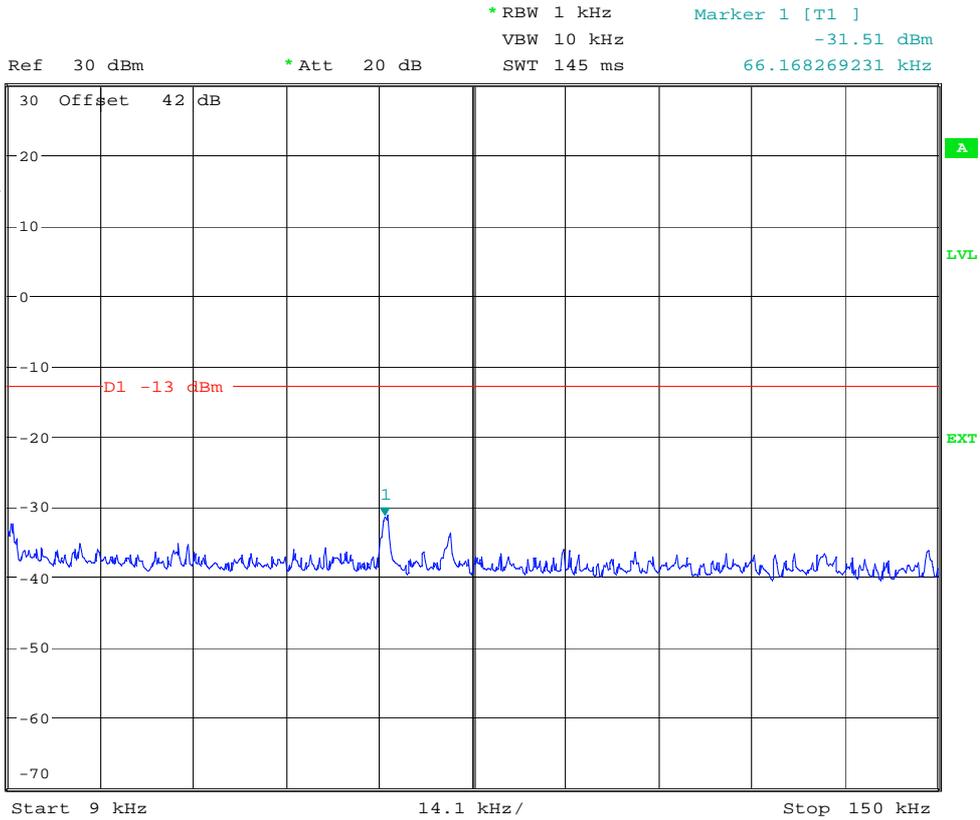
AB

Date: 18.APR.2008 10:46:37



Channel Number: 400/425/450/475

(9k ~ 150k)

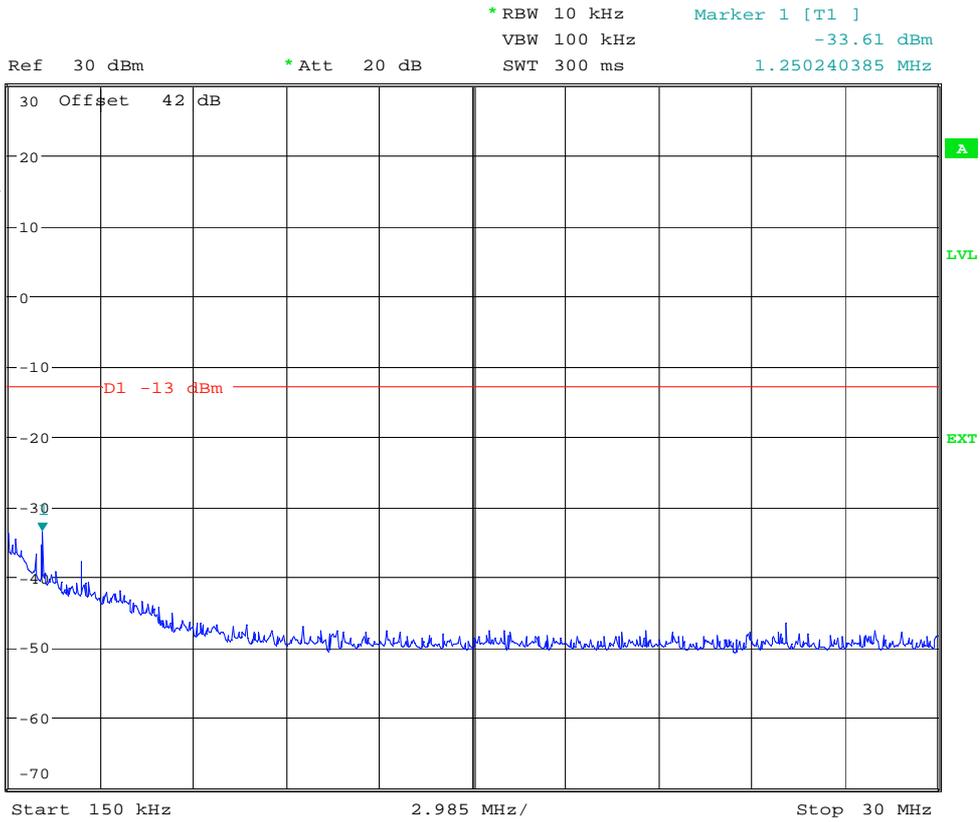


AB

Date: 18.APR.2008 10:53:35



(150k ~ 30M)

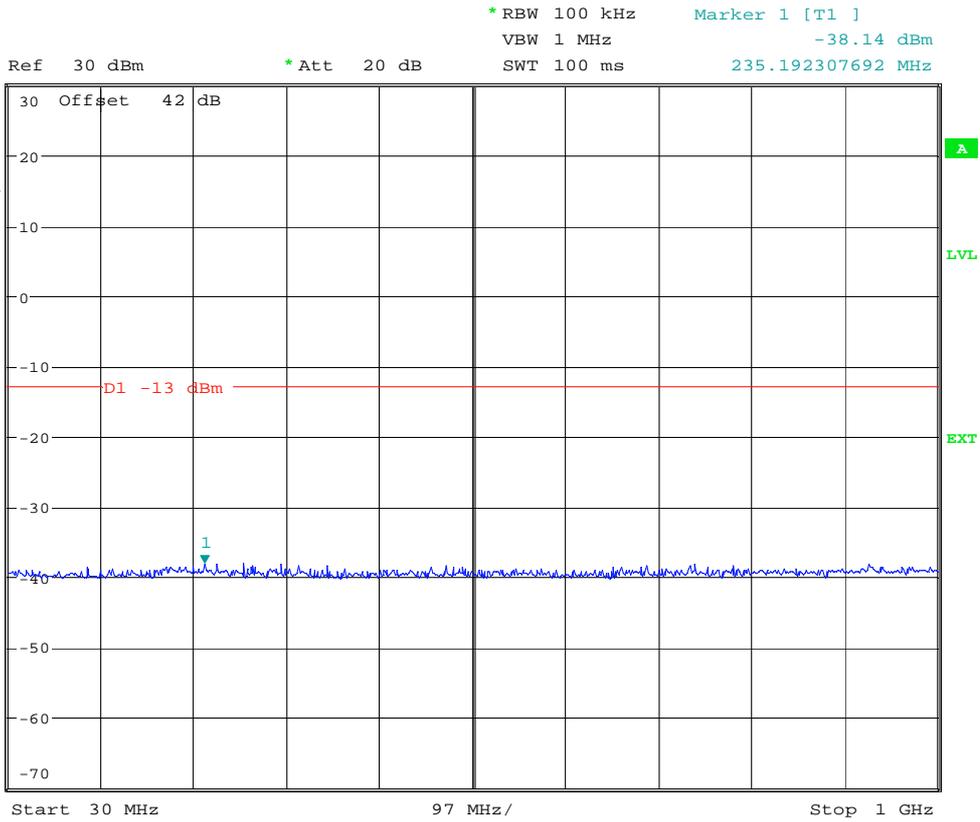


AB

Date: 18.APR.2008 10:54:24



(30M ~ 1G)

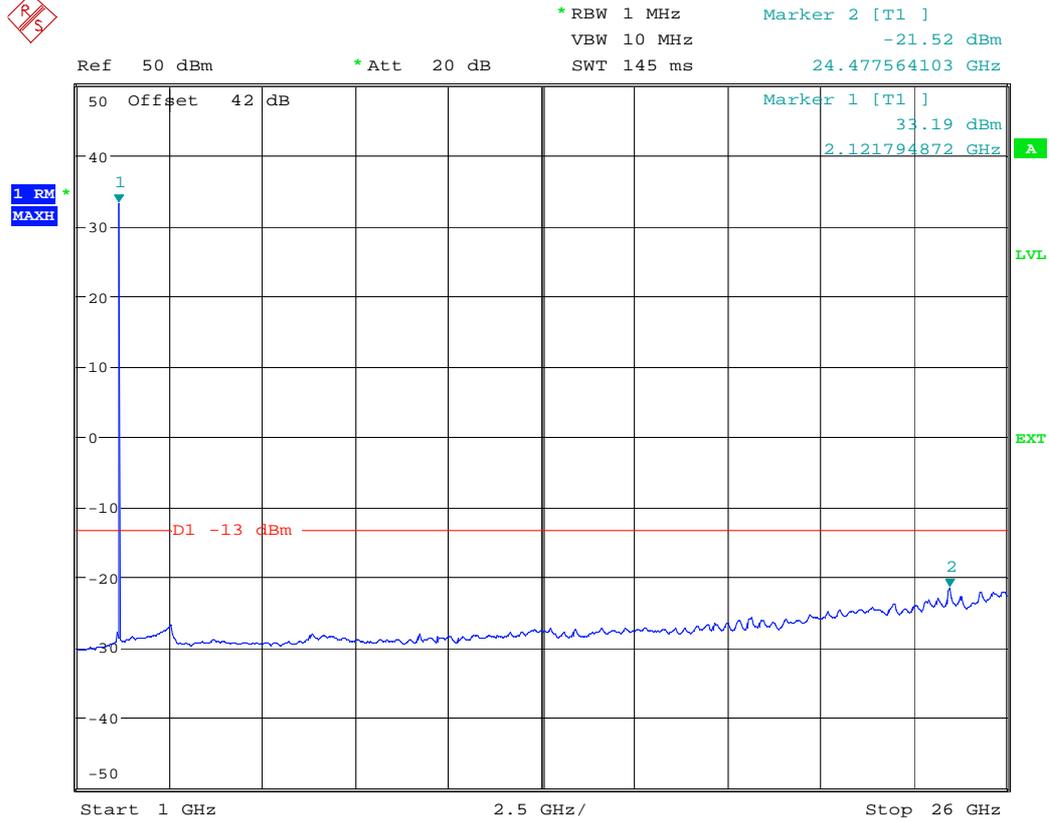


AB

Date: 18.APR.2008 10:55:27



(1G ~ 26G)



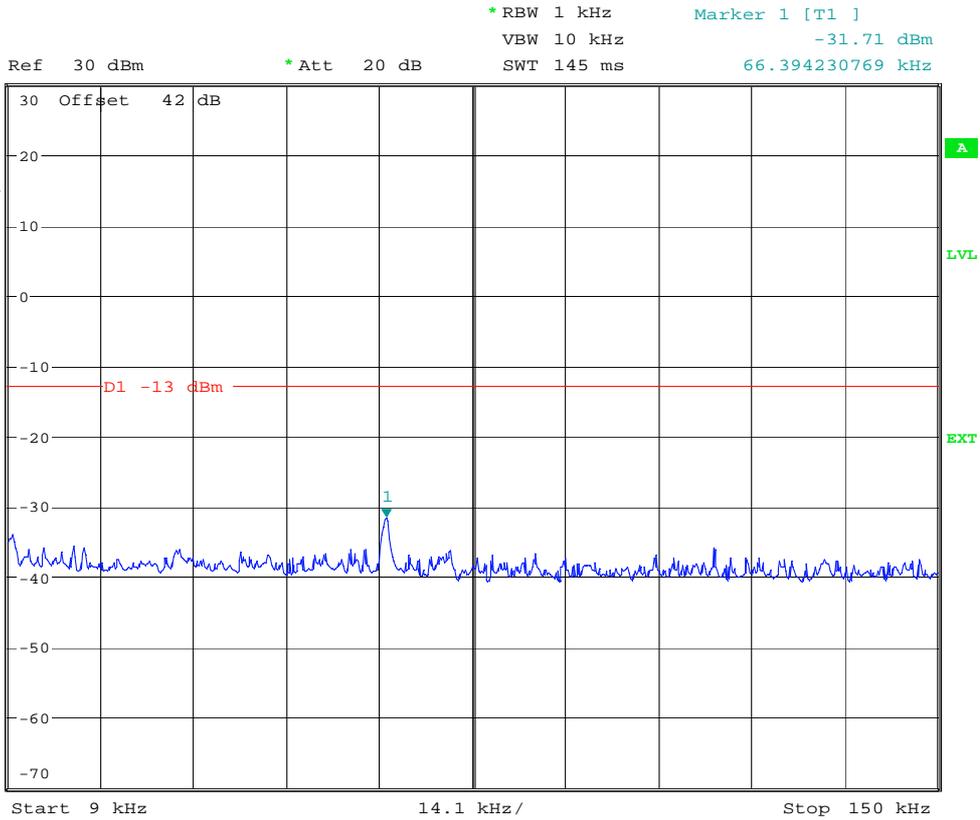
AB

Date: 18.APR.2008 10:56:31



Channel Number: 800/825/850/875

(9k ~ 150k)

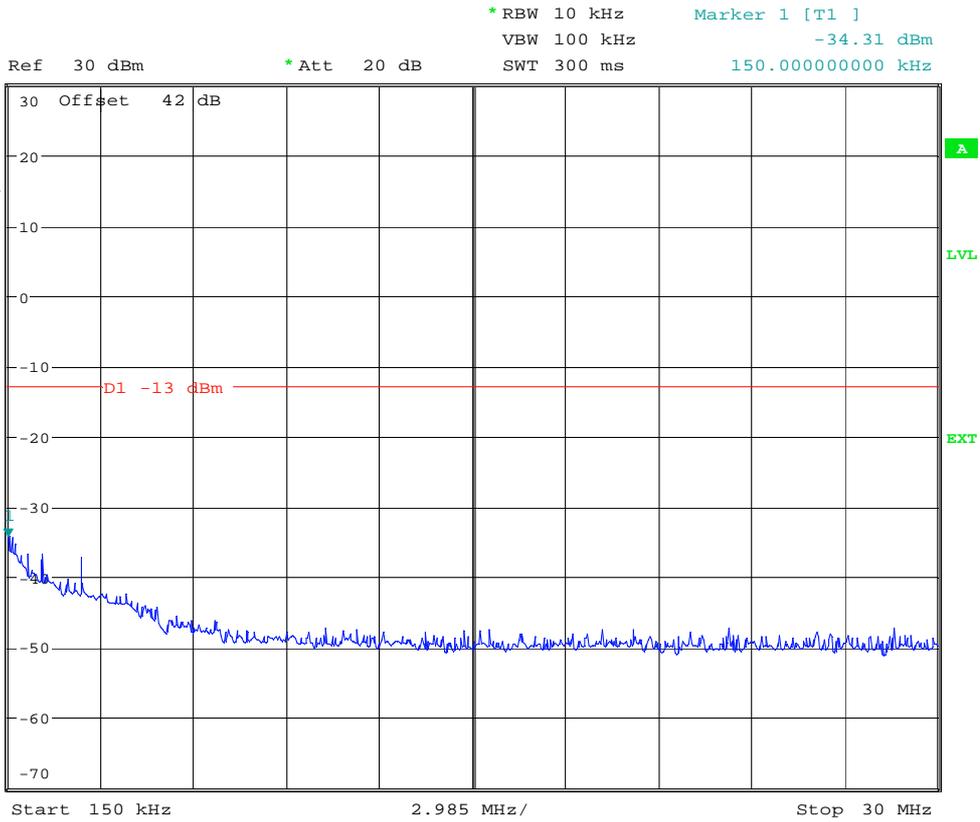


AB

Date: 18.APR.2008 11:07:20



(150k ~ 30M)

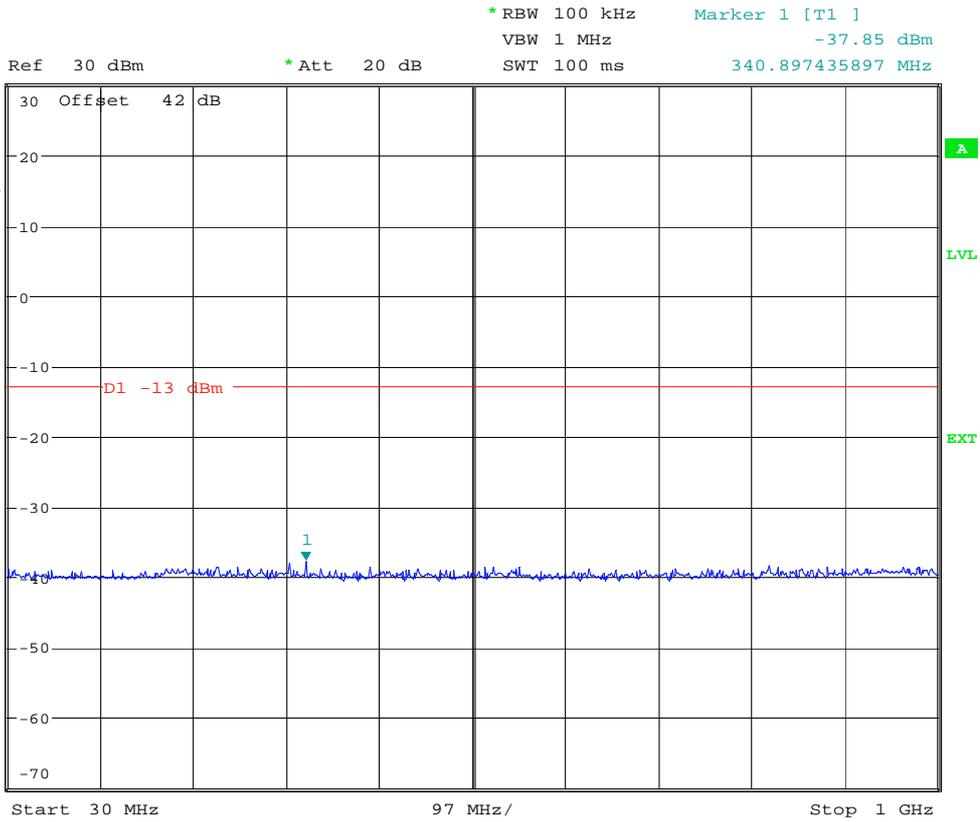


AB

Date: 18.APR.2008 11:08:04



(30M ~ 1G)

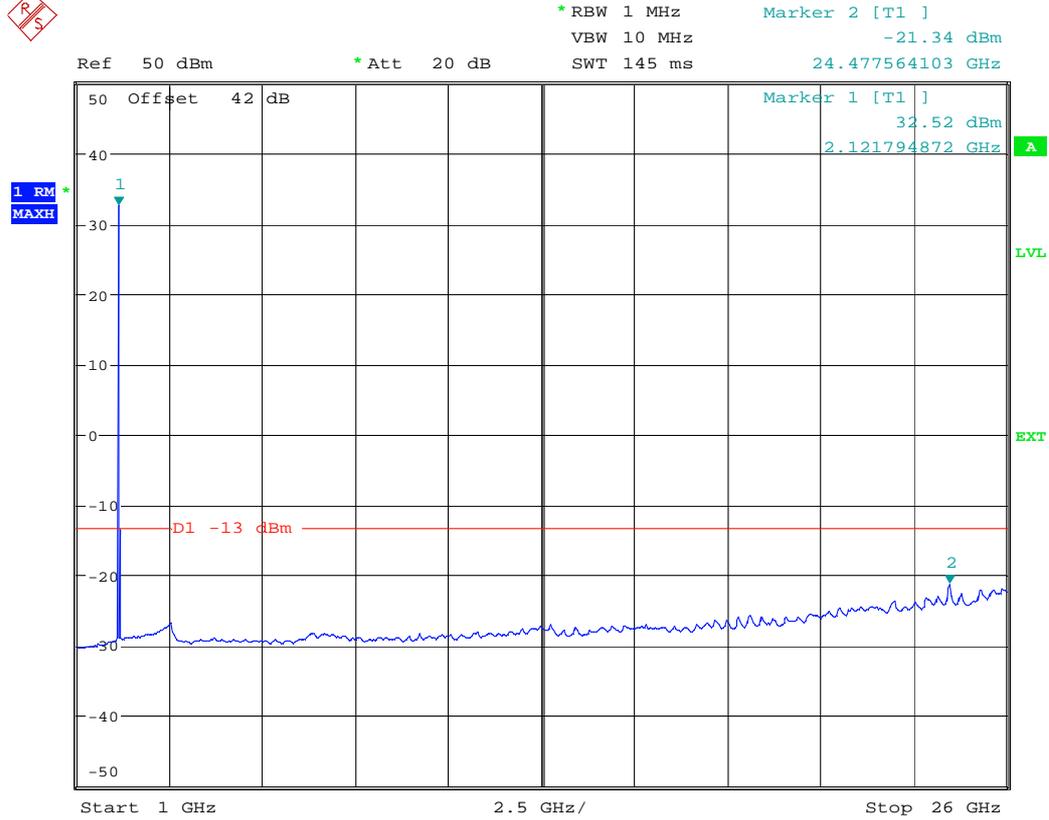


AB

Date: 18.APR.2008 11:08:38



(1G ~ 26G)



AB

Date: 18.APR.2008 11:09:37



Appendix E

Field Strength of Spurious Radiation

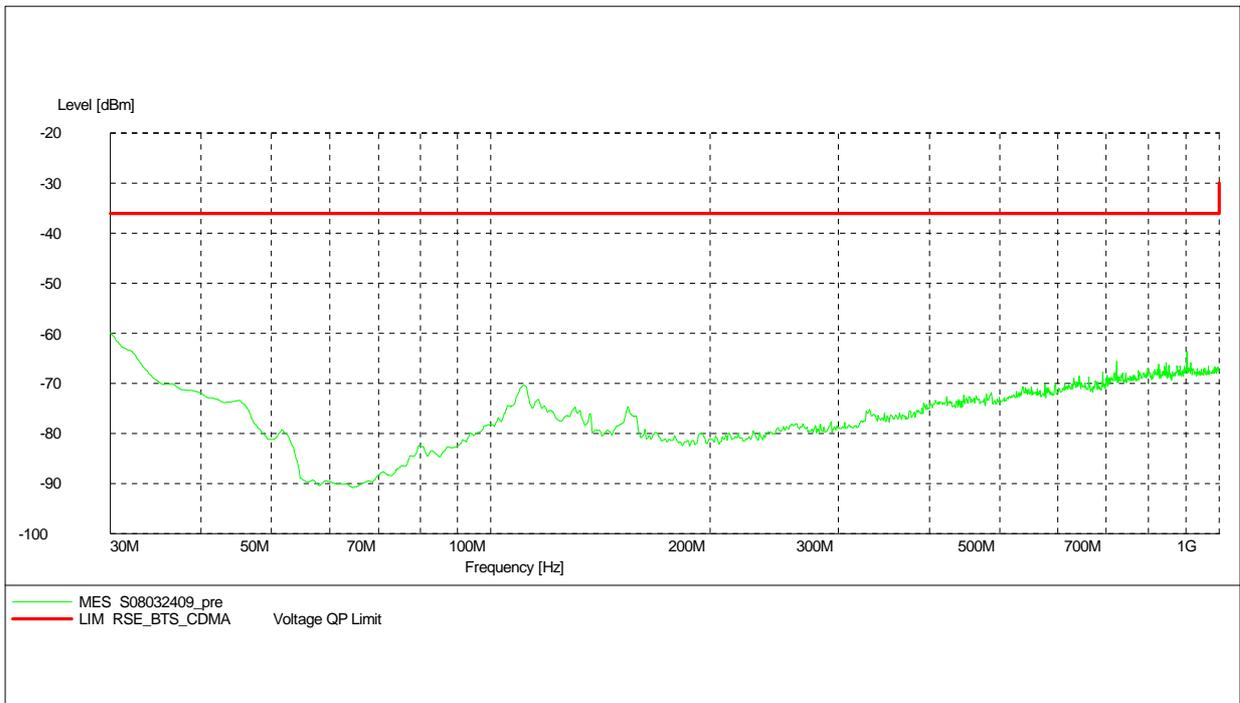
According to FCC Part 2.1053 & 27.53(g)



Measurement Result

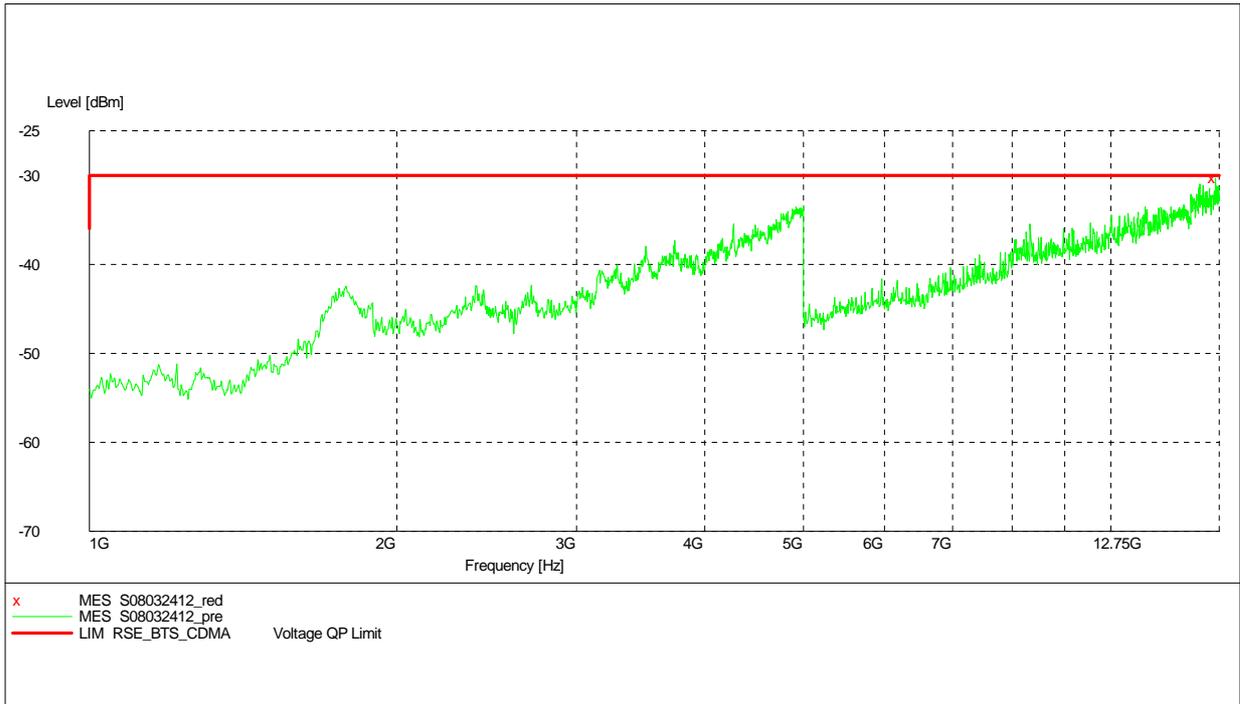
Note: more strict limit was employed by this test.

30MHz-1GHz





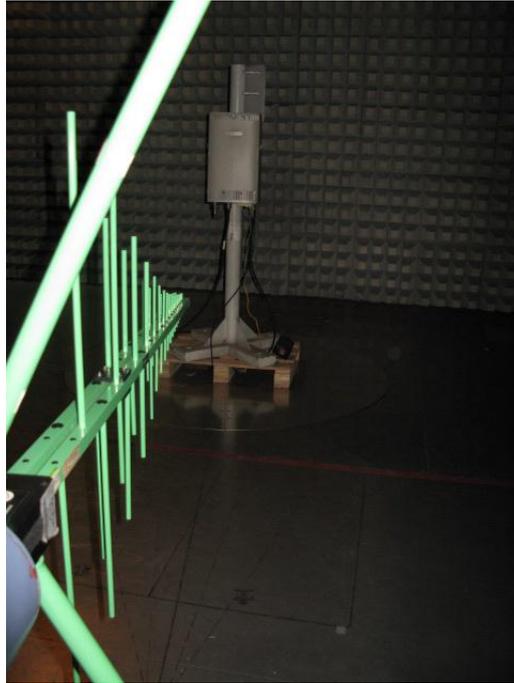
Above 1GHz



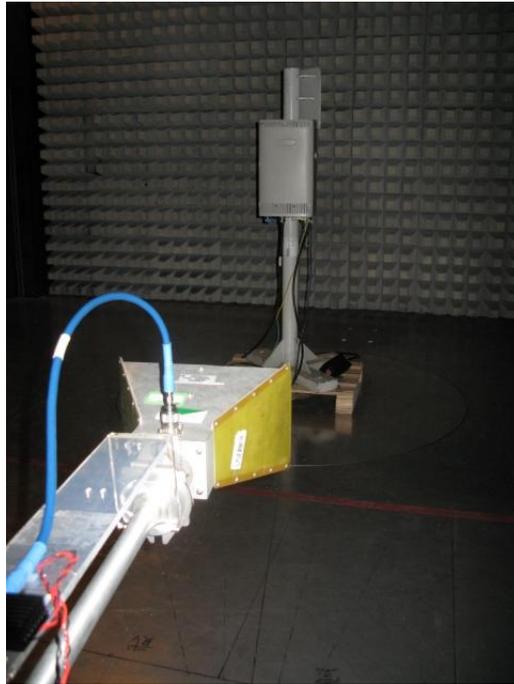


Appendix F

Photos of Test Setup



(Below 1GHz)



(Above 1GHz)