REPORT

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Datum/*Date* 2002-05-02
Beteckning/*Reference* F207839-24
Sida/*Page* 1(1)

Equipment Authorization measurements on GSM Base station 1900 MHz with FCC ID: B5KBKRC1311004-1

(10 enclosures)

Test object

Transceiver Unit dTRU-19 KRC 131 1004/1, R5A

Summary

Standard	Compliant	Enclosure	Remarks
FCC CFR 47			
2.1046 RF Power output	Yes	2	
2.1047 Modulation characteristics	Yes	3	
2.1049 Occupied bandwidth	Yes	4	Note 1
2.1051 Spurious emission at antenna	Yes	5	
2.1053 Field strength of spurious radiation	Yes	6	
2.1055 Frequency stability	Yes	7	
Intermodulation test	Yes	8	

Note 1: This unit must use reduced transmit power with 12 dB, to 32.5 dBm, for the channels adjacent to each frequency block edge in order to comply.

SP Swedish National Testing and Research Institute
Electronics - EMC

Jan Carlsson
Deputy Technical Manager

Fredrik Isaksson
Technical Officer

Description - Equipment Under Test (EUT)

Equipment:	GSM Base station transceiver 1900MHz
Tx Frequency range:	1930.2-1989.8 MHz
Tested Channels:	512: 1930.2 MHz
	513: 1930.4 MHz
	537: 1935.2 MHz
	661: 1960.0 MHz
	785: 1984.8 MHz
	809: 1989.6 MHz
	810: 1989.8 MHz
Product number:	dTRU-19: KRC 131 1004/1
Serial number:	See Hardware list in enclosure 9

RF conducted measurements were done on
dTRU-19: KRC 131 1004/1, R5A s/n: AE5000DCFD
CDU-G19 BFL 119 153/1, R4A s/n: A40003FWM6
All RF conducted measurements were done at the output connectors of CDU-G.

Manufacturer's representative:	Larry Lindström, Ericsson AB

Purpose of test

The purpose of the tests is to verify compliance with the performance characteristics specified in FCC CFR47.

Reservation

The test results in this report apply only to the particular Equipment Under Test (EUT) as declared in the report.

Delivery of test objects

The test objects was delivered: 2002-04-12

Test engineers

Fredrik Isaksson
Peter Grahn

Test witness

Larry Lindström, Ericsson AB

RF Power output measurements according to 47CFR 2.1046

Date	Temperature	Humidity
2002-04-26	23 °C ± 3 °C	32 % ± 5 %

Test set-up and Procedure

The measurements were made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a Peak power analyzer via a 50 ohm attenuator. The RF power was measured with variation in supply voltage at the highest power level. Test was performed on 24 V DC supply voltage system. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
Boonton RF Peak power meter/analyzer	2002-12	503 144
Boonton Power sensor 56518-S/4	2003-02	503 146
Multimeter Fluke 83	2002-08	501 521
Testo 610, Temperature and humidity meter	2002-11	502 658

Results

dTRU, output 1+2 (TCC):
Nominal power 24 V DC
Rated output power level after CDU-G (maximum): 47 dBm

Test conditions		Transmitter power (dBm)		
		Channel 512	Channel 661	Channel 810
T_{nom} 23°C	V_{nom} 24 V DC	46.8	47.2	46.3
T_{nom} 23°C	V_{min} 20.4 V DC	46.7	47.1	46.3
	V_{max} 27.6 V DC	46.7	47.2	46.4
Measurement uncertainty		0.5 dB		

Sign:…..

dTRU, output 1, without internal combiner:
Nominal power 24 V DC
Rated output power level after CDU-G (maximum): 44.5 dBm

Test conditions		Transmitter power (dBm)		
		Channel 512	Channel 661	Channel 810
T_{nom} 23°C	V_{nom} 24 V DC	44.4	44.8	44.3
T_{nom} 23°C	V_{min} 20.4 V DC	44.4	44.9	44.3
	V_{max} 27.6 V DC	44.5	44.8	44.3
Measurement uncertainty		0.5 dB		

dTRU, output 2, without internal combiner:
Nominal power 24 V DC
Rated output power level after CDU-G (maximum): 44.5 dBm

Test conditions		Transmitter power (dBm)		
		Channel 512	Channel 661	Channel 810
T_{nom} 23°C	V_{nom} 24 V DC	44.5	44.7	44.3
T_{nom} 23°C	V_{min} 20.4 V DC	44.4	44.7	44.2
	V_{max} 27.6 V DC	44.4	44.7	44.2
Measurement uncertainty		0.5 dB		

dTRU, output 1, with internal combiner:
Nominal power 24 V DC
Rated output power level after CDU-G (maximum): 41 dBm

Test conditions		Transmitter power (dBm)		
		Channel 512	Channel 661	Channel 810
T_{nom} 23°C	V_{nom} 24 V DC	40.9	41.3	40.4
T_{nom} 23°C	V_{min} 20.4 V DC	40.9	41.3	40.4
	V_{max} 27.6 V DC	40.9	41.3	40.4
Measurement uncertainty		0.5 dB		

dTRU, output 2, with internal combiner:
Nominal power 24 V DC
Rated output power level after CDU-G (maximum): 41 dBm

Test conditions		Transmitter power (dBm)		
		Channel 512	Channel 661	Channel 810
T_{nom} 23°C	V_{nom} 24 V DC	41.1	41.6	40.9
T_{nom} 23°C	V_{min} 20.4 V DC	41.1	41.6	40.8
	V_{max} 27.6 V DC	41.1	41.6	40.8
Measurement uncertainty		0.5 dB		

Limits

The deviation of output power shall not be greater than ±2 dB of the maximum rated output power.

Complies?	Yes

Modulation characteristics measurements according to 47CFR 2.1047

Date	Temperature	Humidity
2002-04-24	22 °C ± 3 °C	31 % ± 5 %

Test set-up and Procedure

The measurements were made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a spectrum analyzer. The spectrum analyser was connected to an external 10 MHz reference standard during the measurements. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
R&S ESI 26	2003-04	Ericsson Id. 638906
Frequency Reference Fluke PM6681R	2002-05	502 480
Multimeter Fluke 83	2002-08	501 521
Climate chamber	2002-10	503 546
Testo 610, Temperature and humidity meter	2002-11	502 658

Results

Nominal Voltage 24 V DC
44.5 dBm output power at Channel 661 (1960.0 MHz)

	Phase error (°)	
	TRU Output 1	TRU Output 2
	1	1
Maximum phase error (°)	1	

Limits

The tolerance of the maximum output phase error shall not be greater than 5 degrees.

Complies?	Yes

Sign:…..

Occupied bandwidth measurements according to 47CFR 2.1049

Date	Temperature	Humidity
2002-04-30	22 °C ± 3 °C	33 % ± 5 %

Test set-up and Procedure

The measurements were made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a spectrum analyzer. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
R&S ESI 40 with option FSE-B7	2002-07	503 125
Testo 610, Temperature and humidity meter	2002-11	502 658

Measurement uncertainty: 3.7 dB

Results

dTRU Output 1, without internal combiner:

Diagram 1 Ch 512 OBW Reference level +32.5 dBm output power
Diagram 2 Ch 512 OBW 26 dB points +32.5 dBm output power
Diagram 3 Ch 512 OBW Band edge +32.5 dBm output power

Diagram 4 Ch 513 OBW Reference level +44.5 dBm output power
Diagram 5 Ch 513 OBW 26 dB points +44.5 dBm output power
Diagram 6 Ch 513 OBW Band edge +44.5 dBm output power

Diagram 7 Ch 809 OBW Reference level +44.5 dBm output power
Diagram 8 Ch 809 OBW 26 dB points +44.5 dBm output power
Diagram 9 Ch 809 OBW Band edge +44.5 dBm output power

Diagram 10 Ch 810 OBW Reference level +32.5 dBm output power
Diagram 11 Ch 810 OBW 26 dB points +32.5 dBm output power
Diagram 12 Ch 810 OBW Band edge +32.5 dBm output power

dTRU Output 2, without internal combiner:

Diagram 13 Ch 512 OBW Reference level +32.5 dBm output power
Diagram 14 Ch 512 OBW 26 dB points +32.5 dBm output power
Diagram 15 Ch 512 OBW Band edge +32.5 dBm output power

Diagram 16 Ch 513 OBW Reference level +44.5 dBm output power
Diagram 17 Ch 513 OBW 26 dB points +44.5 dBm output power
Diagram 18 Ch 513 OBW Band edge +44.5 dBm output power

Diagram 19 Ch 809 OBW Reference level +44.5 dBm output power
Diagram 20 Ch 809 OBW 26 dB points +44.5 dBm output power
Diagram 21 Ch 809 OBW Band edge +44.5 dBm output power

Diagram 22 Ch 810 OBW Reference level +32.5 dBm output power
Diagram 23 Ch 810 OBW 26 dB points +32.5 dBm output power
Diagram 24 Ch 810 OBW Band edge +32.5 dBm output power

(TCC), dTRU Output 1 (TX1+TX2):

Diagram 25 Ch 513 OBW Reference level +47 dBm output power
Diagram 26 Ch 513 OBW 26 dB points +47 dBm output power
Diagram 27 Ch 513 OBW Band edge +47 dBm output power

Diagram 28 Ch 809 OBW Reference level +47 dBm output power
Diagram 29 Ch 809 OBW 26 dB points +47 dBm output power
Diagram 30 Ch 809 OBW Band edge +47 dBm output power

Remarks

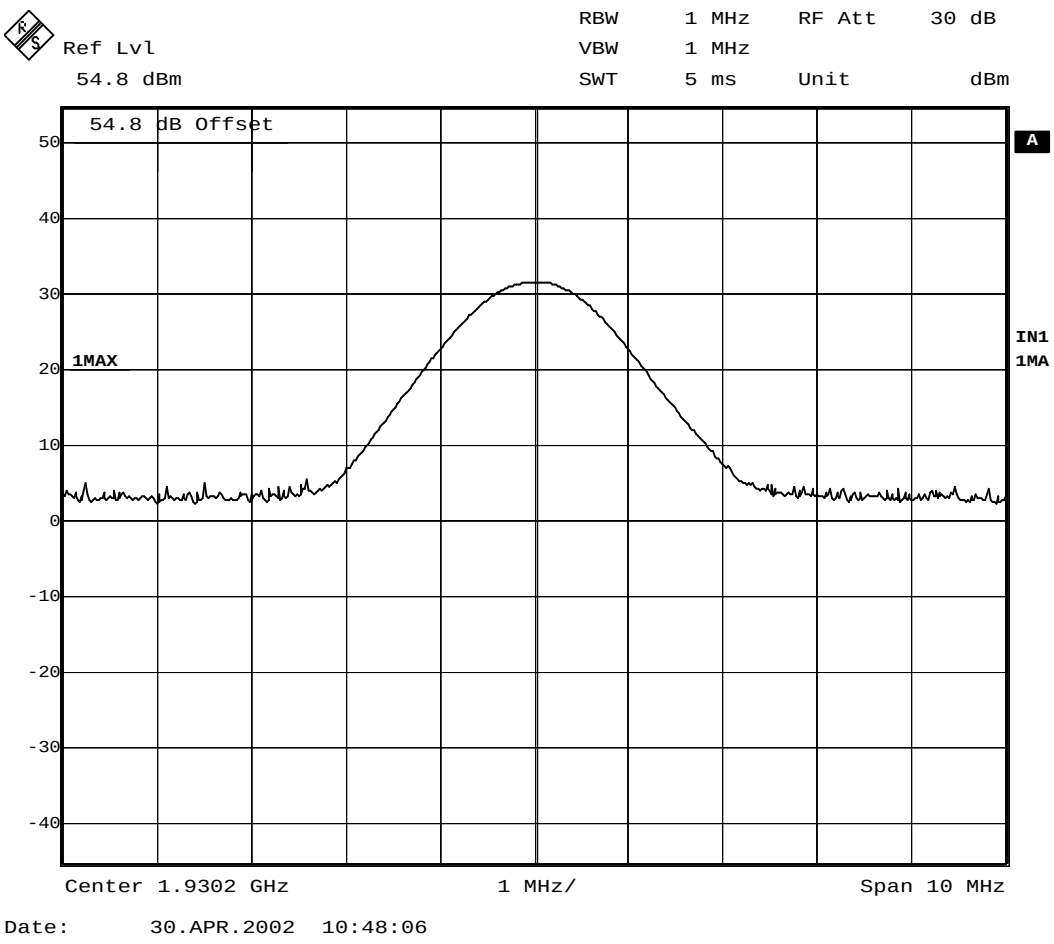
This unit must use reduced transmit power with 12 dB, to 32.5 dBm, for the channels adjacent to each frequency block edge in order to comply.
It is not relevant to test TCC with output power below 44 dBm, thus no measurements were performed at the channels 512 and 810 with TCC.

Limits

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least 43 + 10 log P dB.

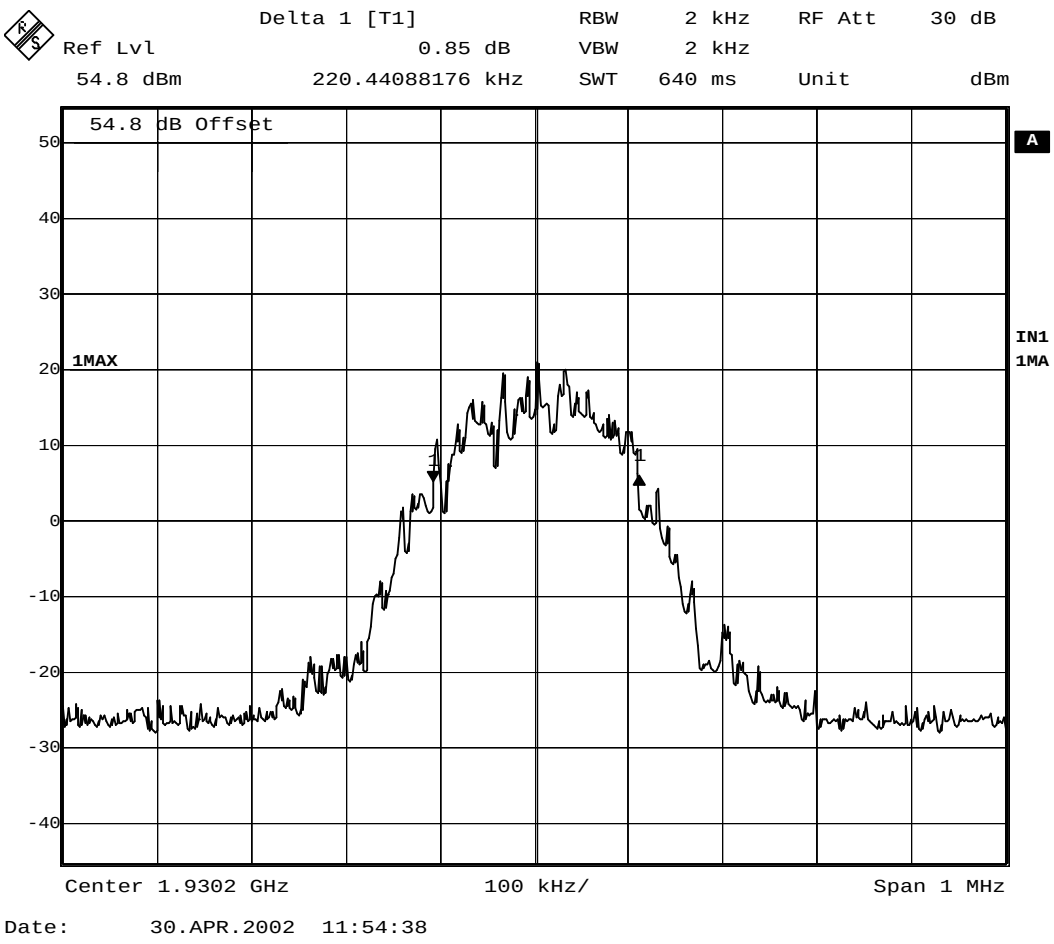
Complies?	Yes

Reference level



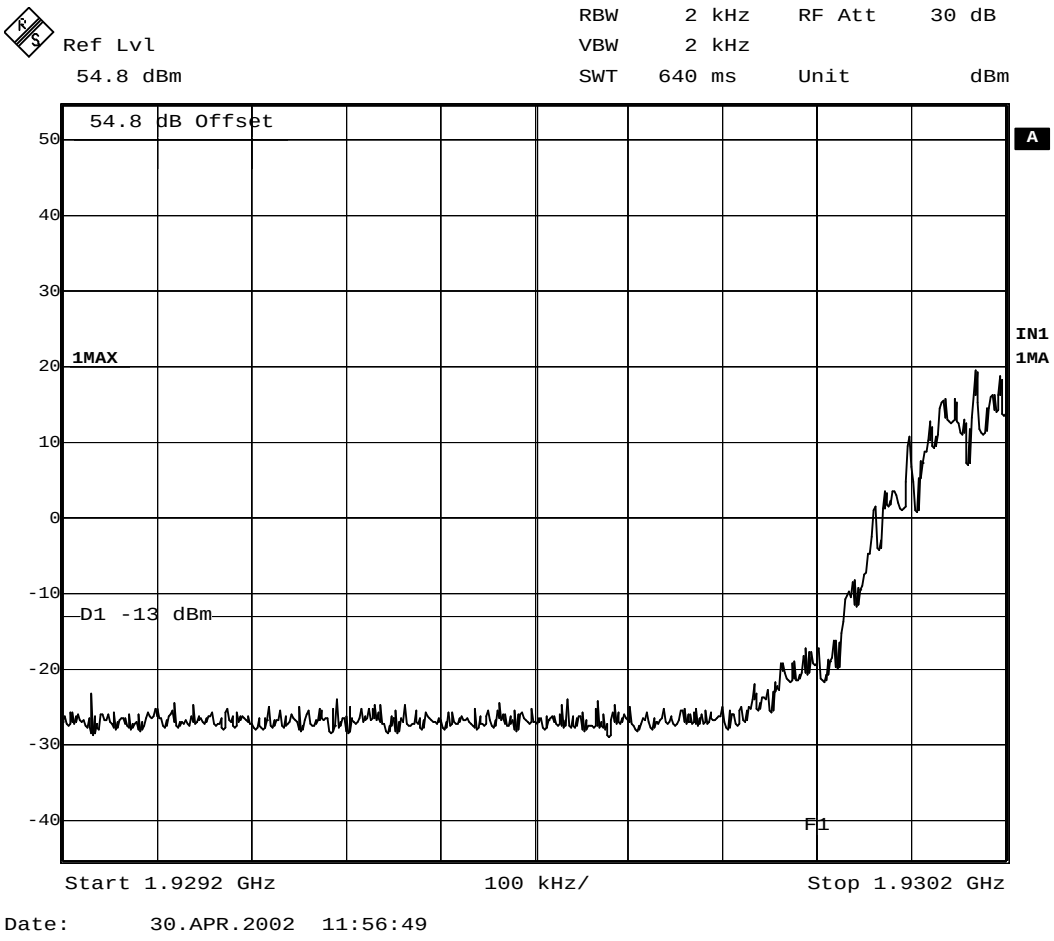
Ch 512, +32.5 dBm

26 dB point



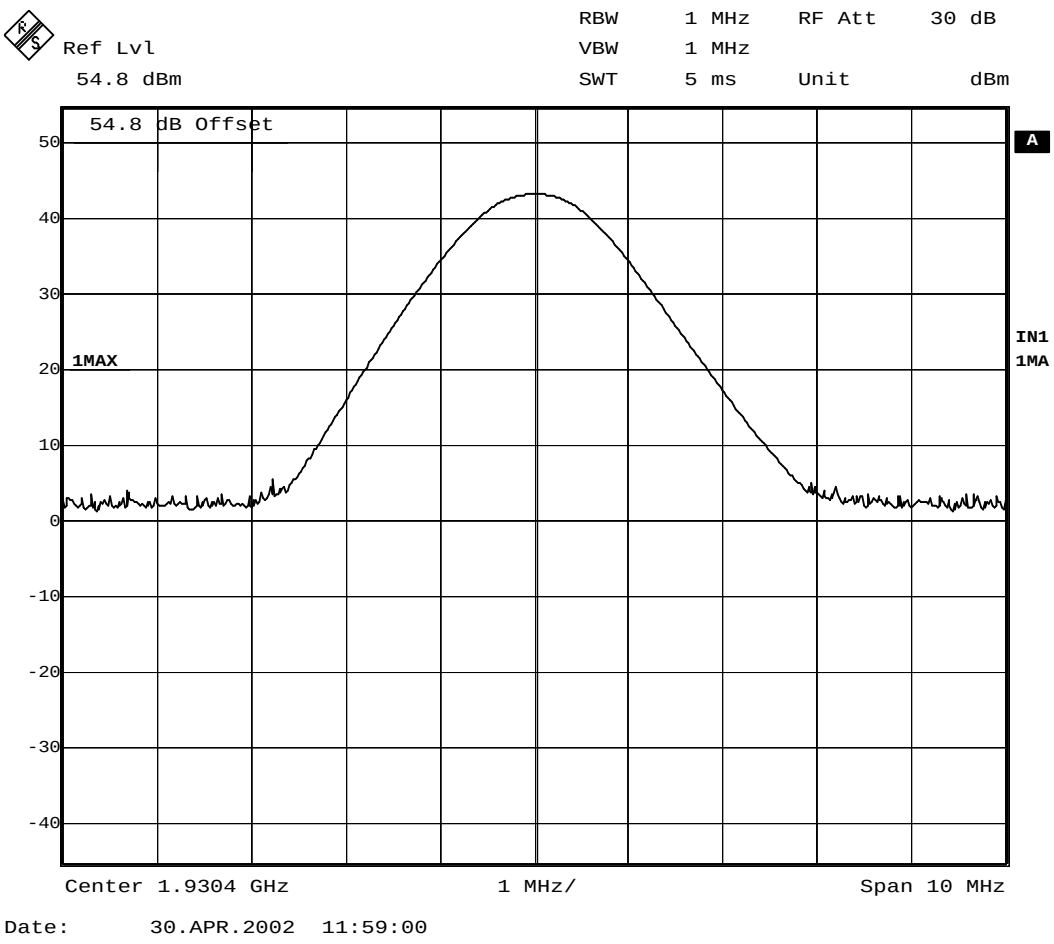
Ch 512, +32.5 dBm

Band edge level



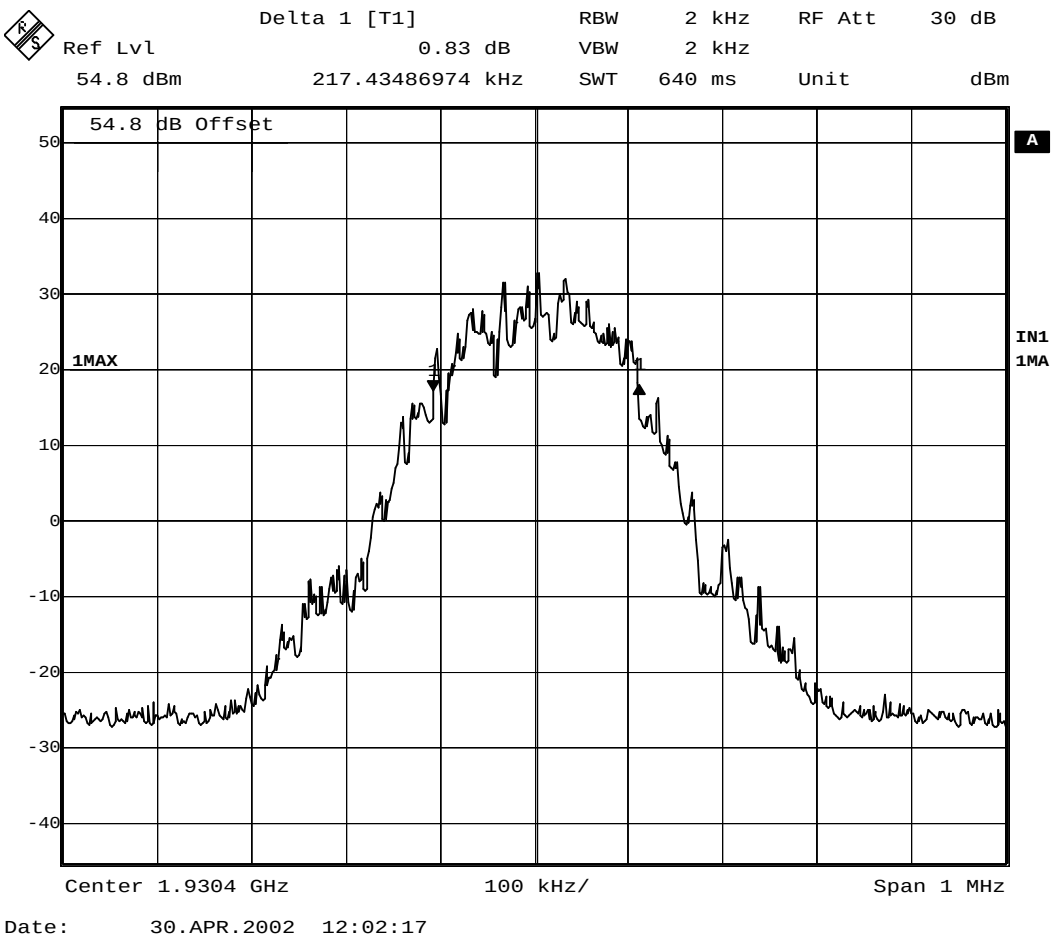
Ch 512, +32.5 dBm

Reference level



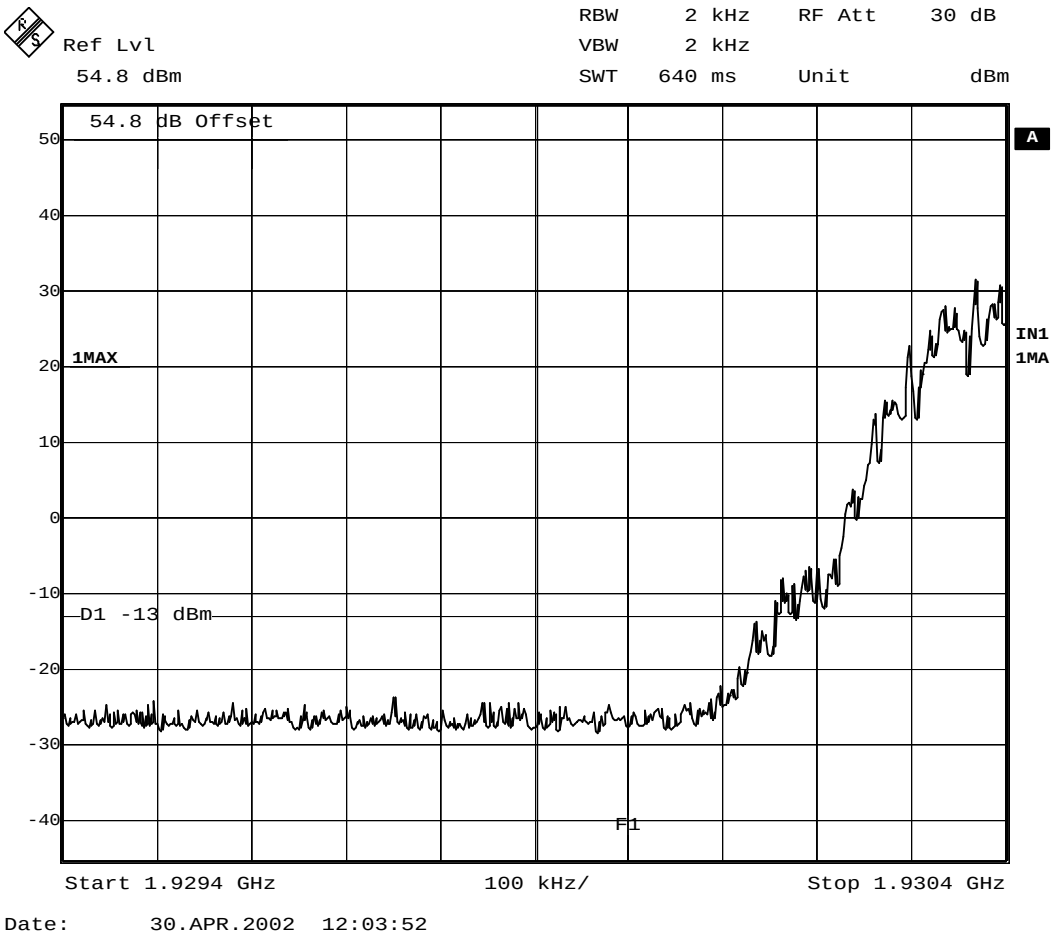
Ch 513, +44.5 dBm

26 dB point



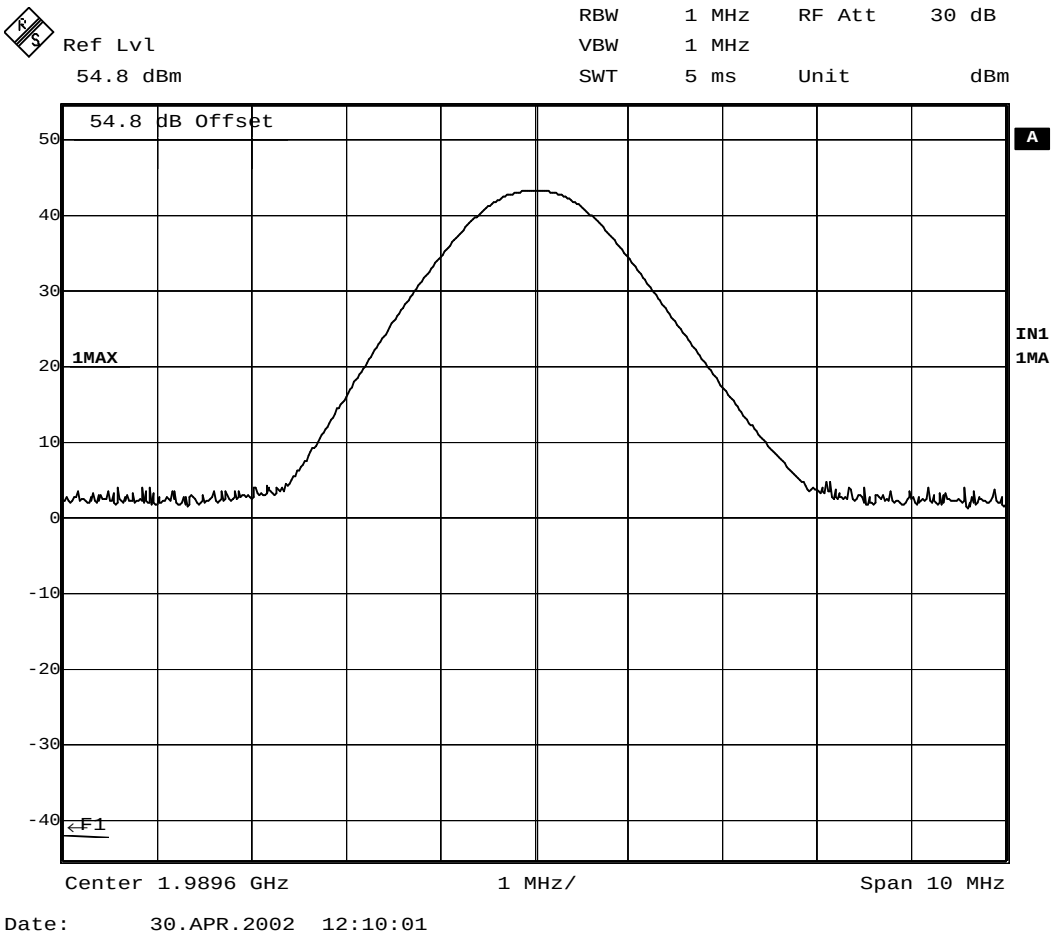
Ch 513, +44.5 dBm

Band edge level



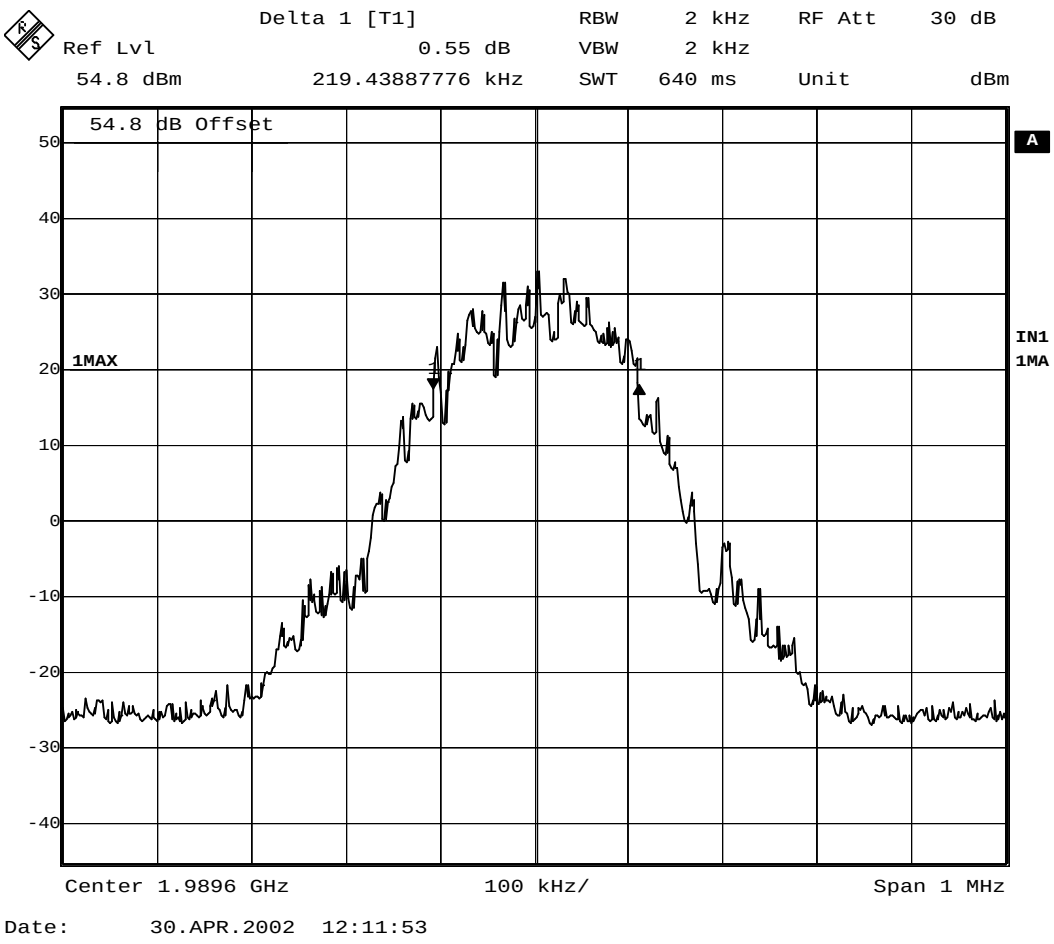
Ch 513, +44.5 dBm

Reference level



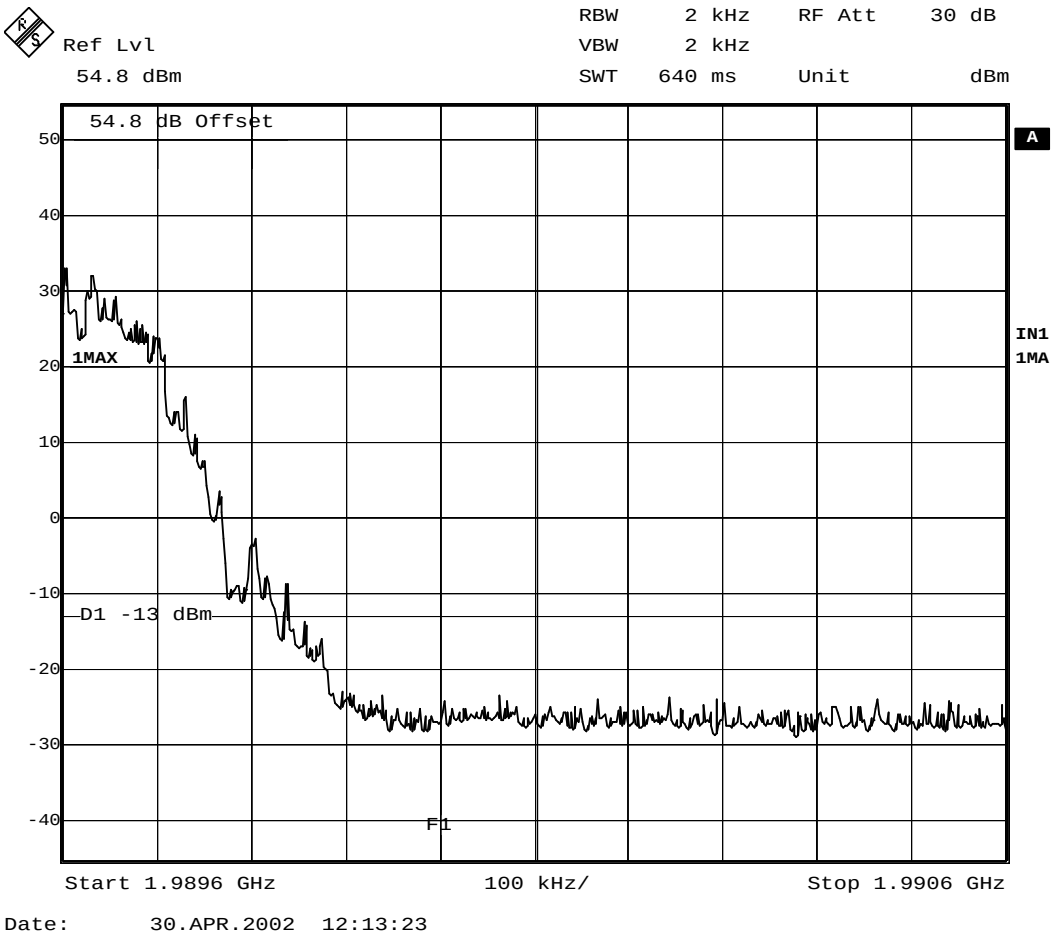
Ch 809, +44.5 dBm

26 dB point



Ch 809, +44.5 dBm

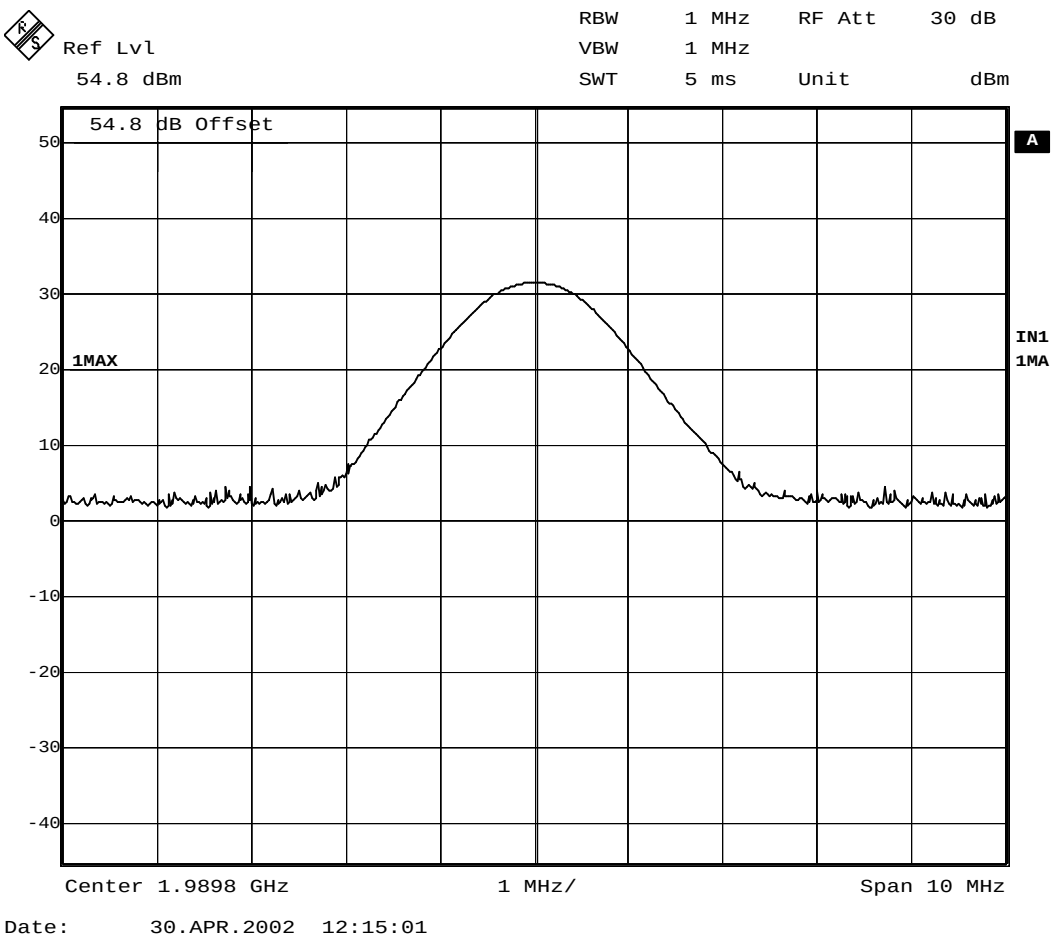
Band edge level



Ch 809, +44.5 dBm

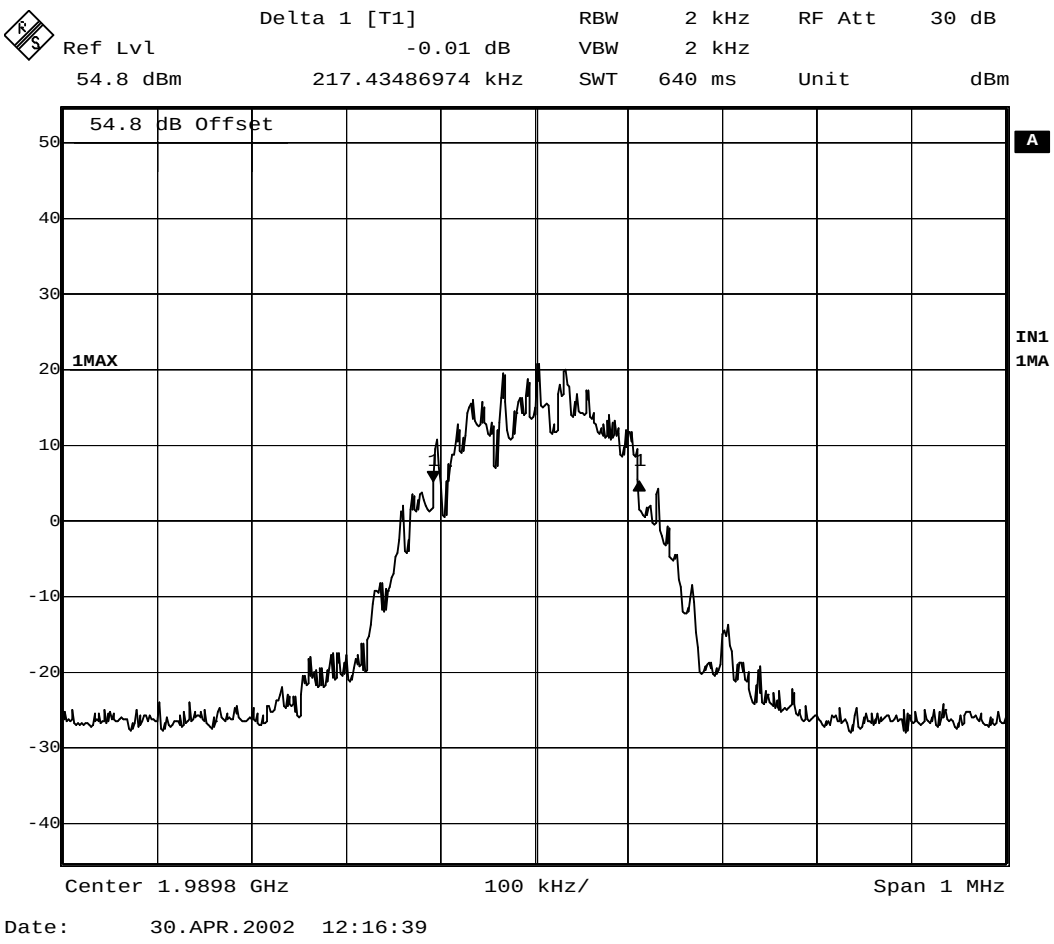
Sign:…..

Reference level



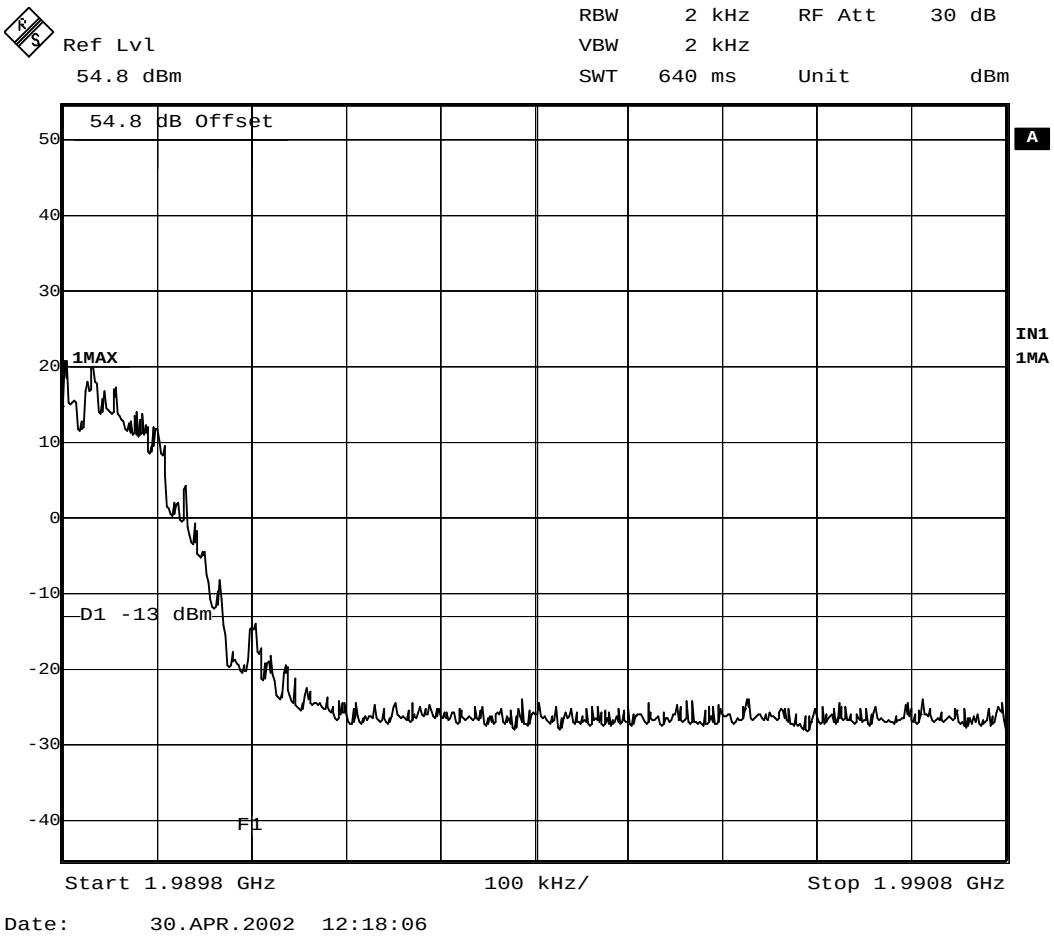
Ch 810, +32.5 dBm

26 dB point



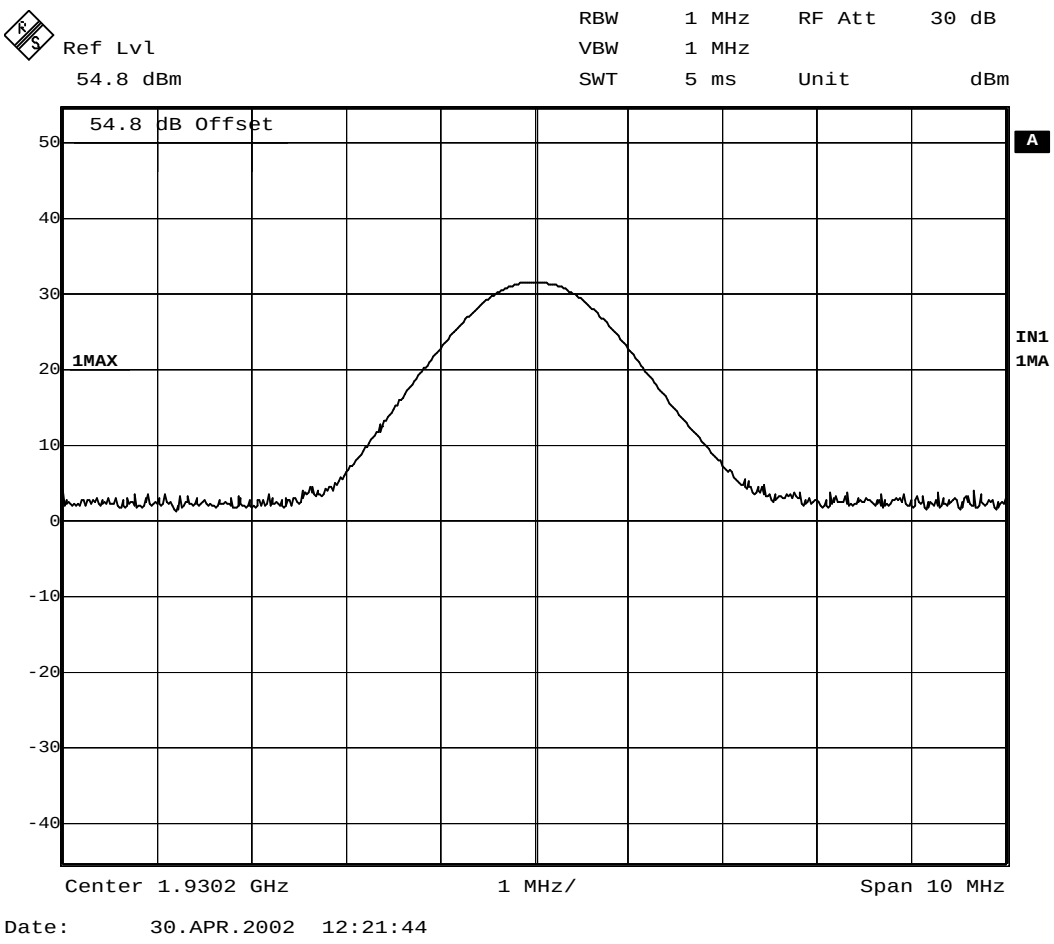
Ch 810, +32.5 dBm

Band edge level



Ch 810, +32.5 dBm

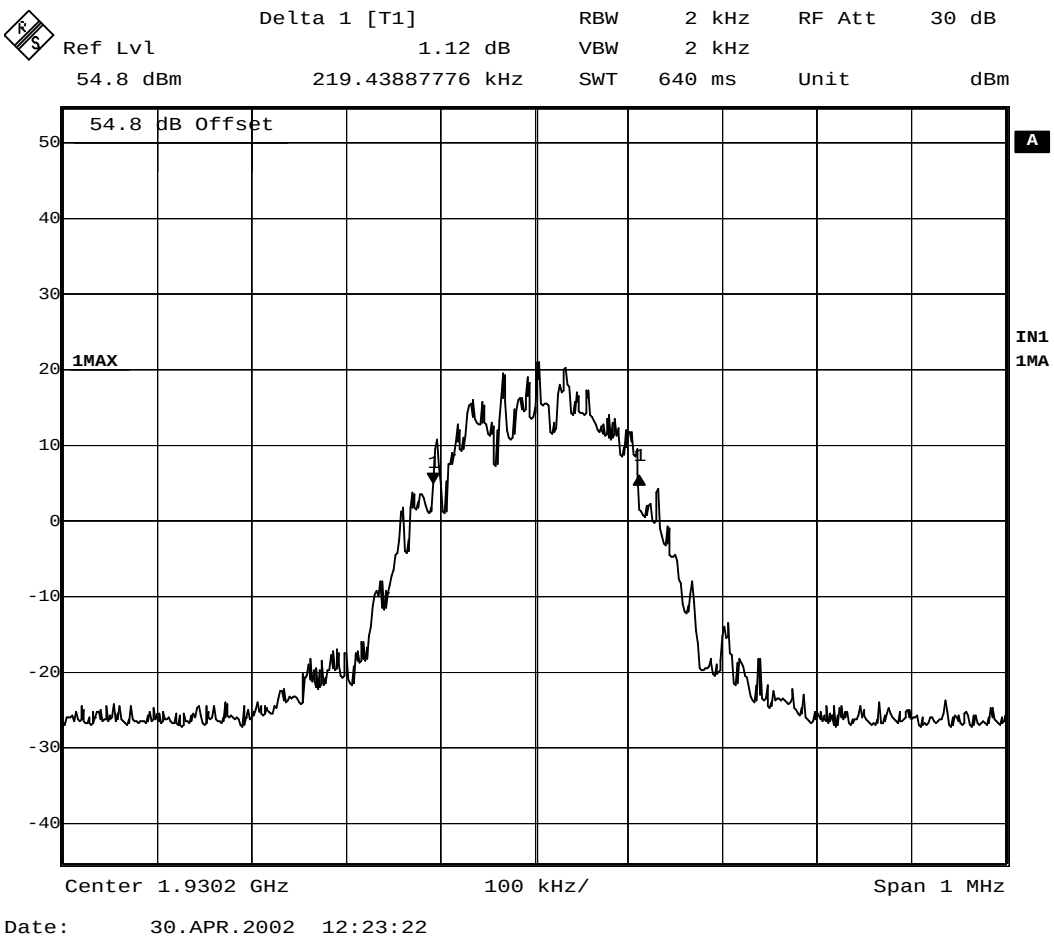
Reference level



Ch 512, +32.5 dBm

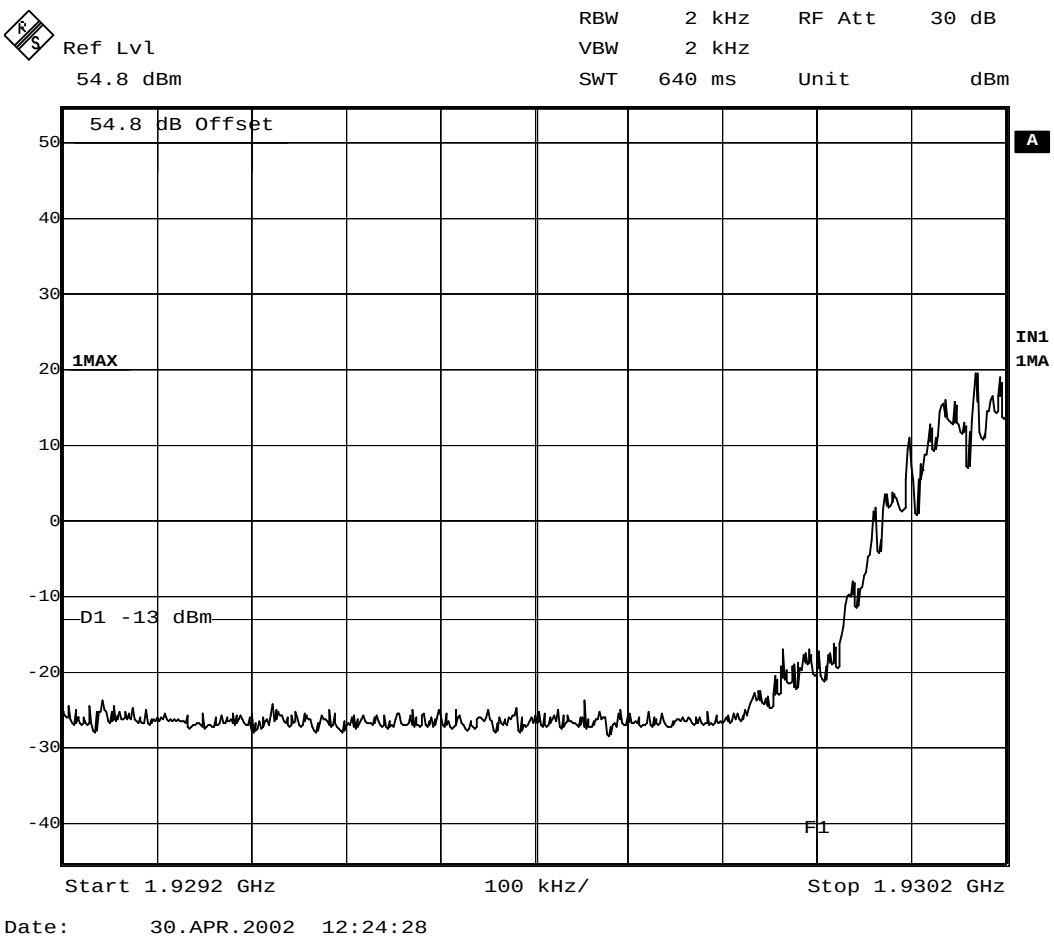
Sign:…..

26 dB point



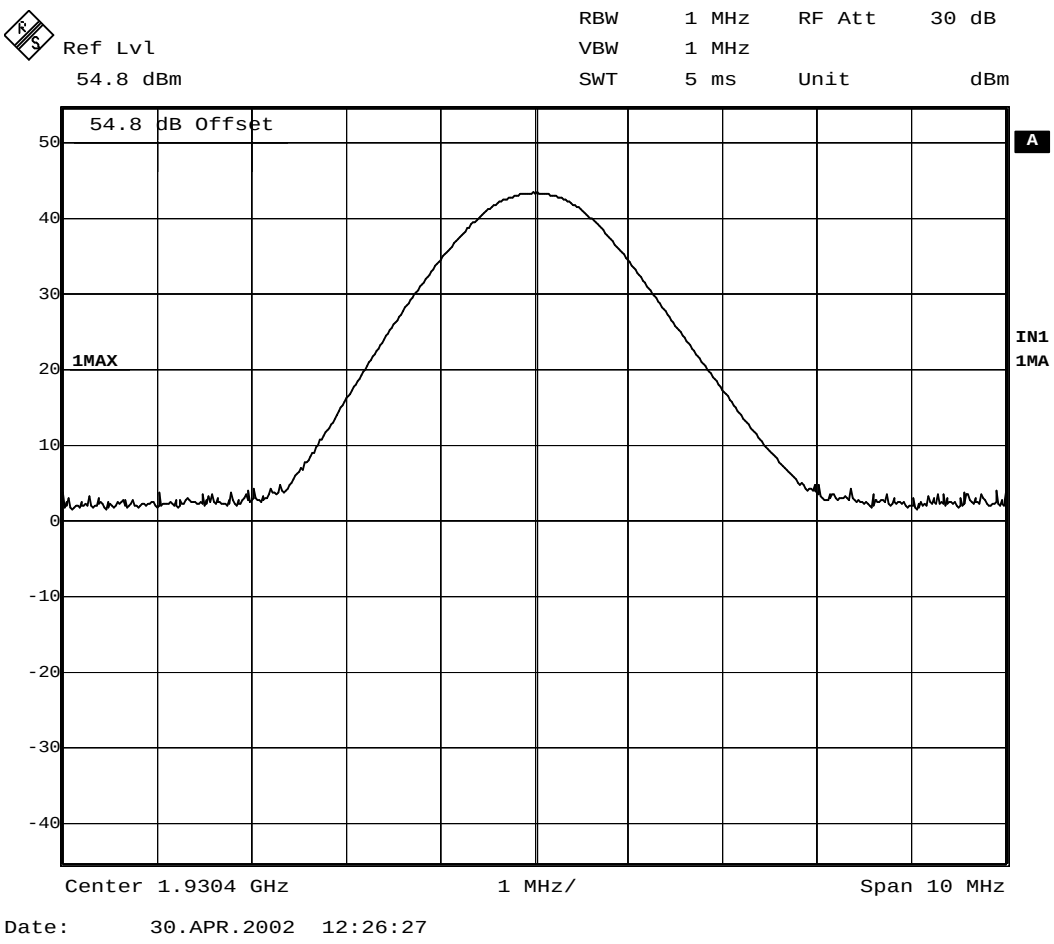
Ch 512, +32.5 dBm

Band edge level



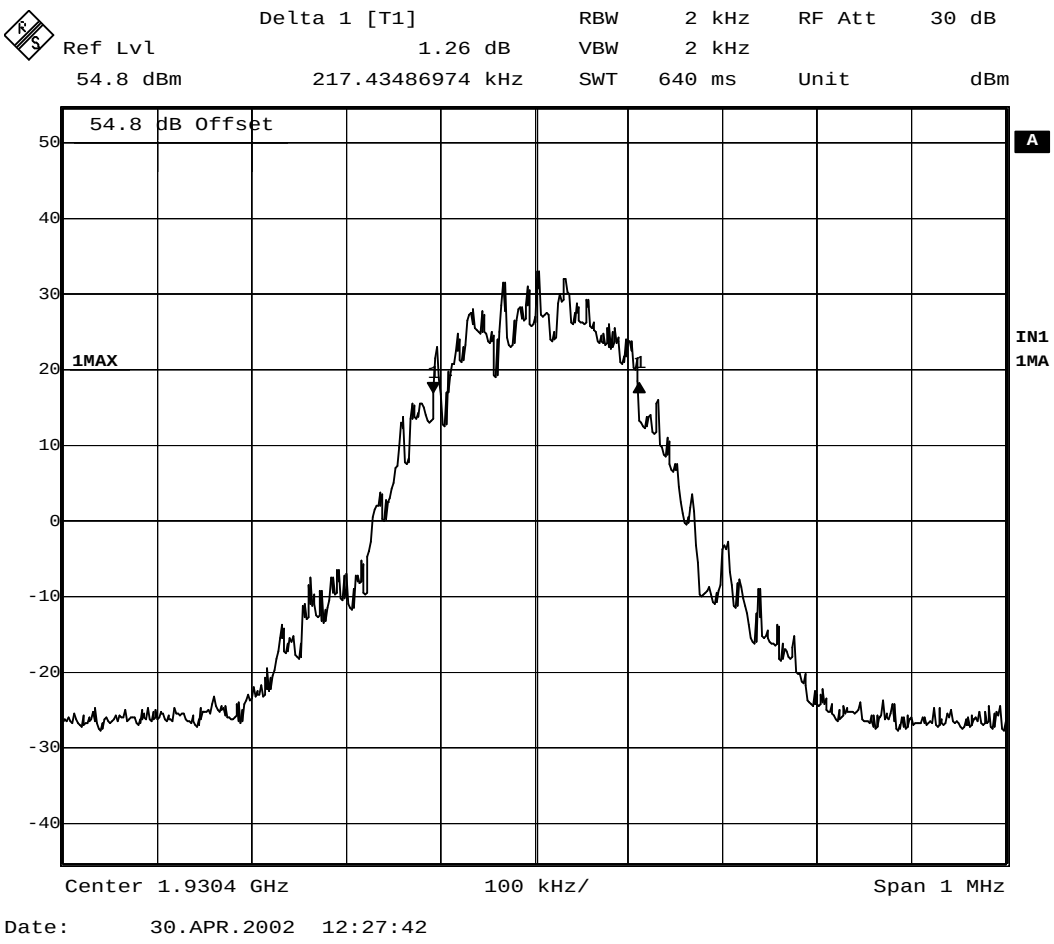
Ch 512, +32.5 dBm

Reference level



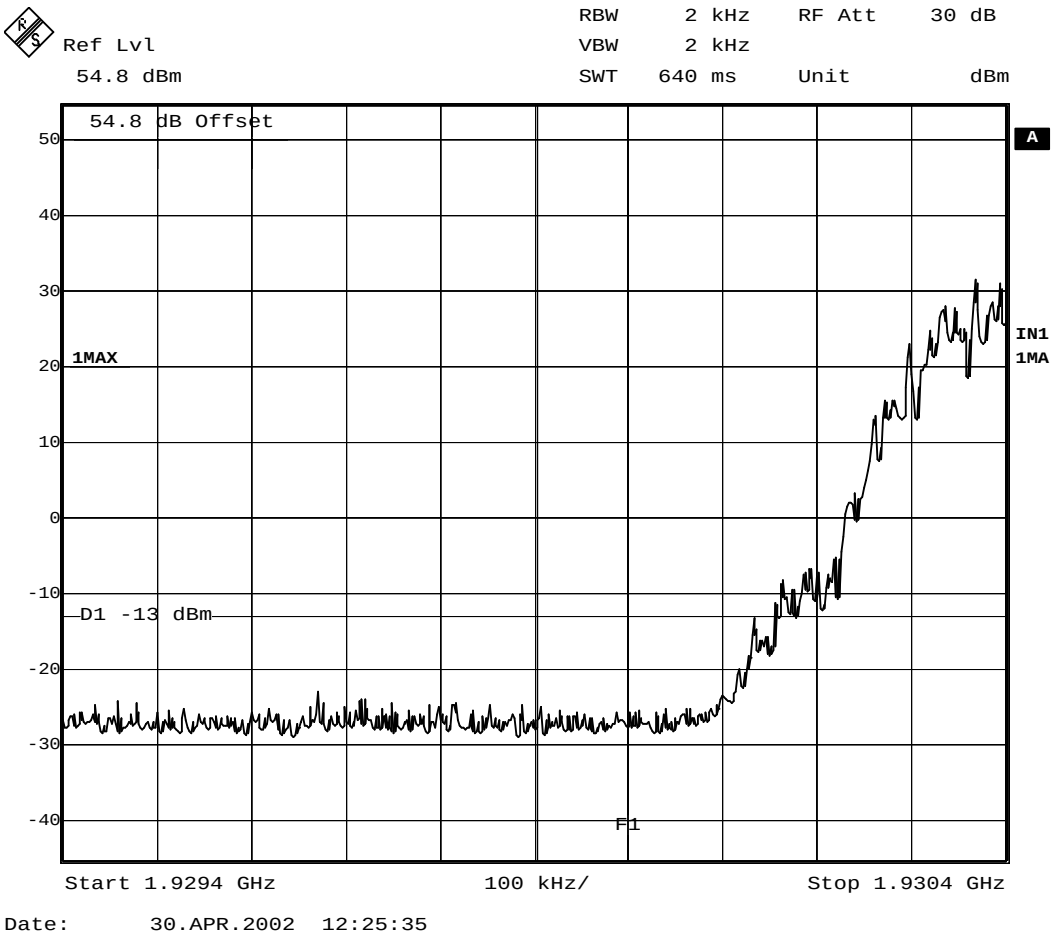
Ch 513, +44.5 dBm

26 dB point



Ch 513, +44.5 dBm

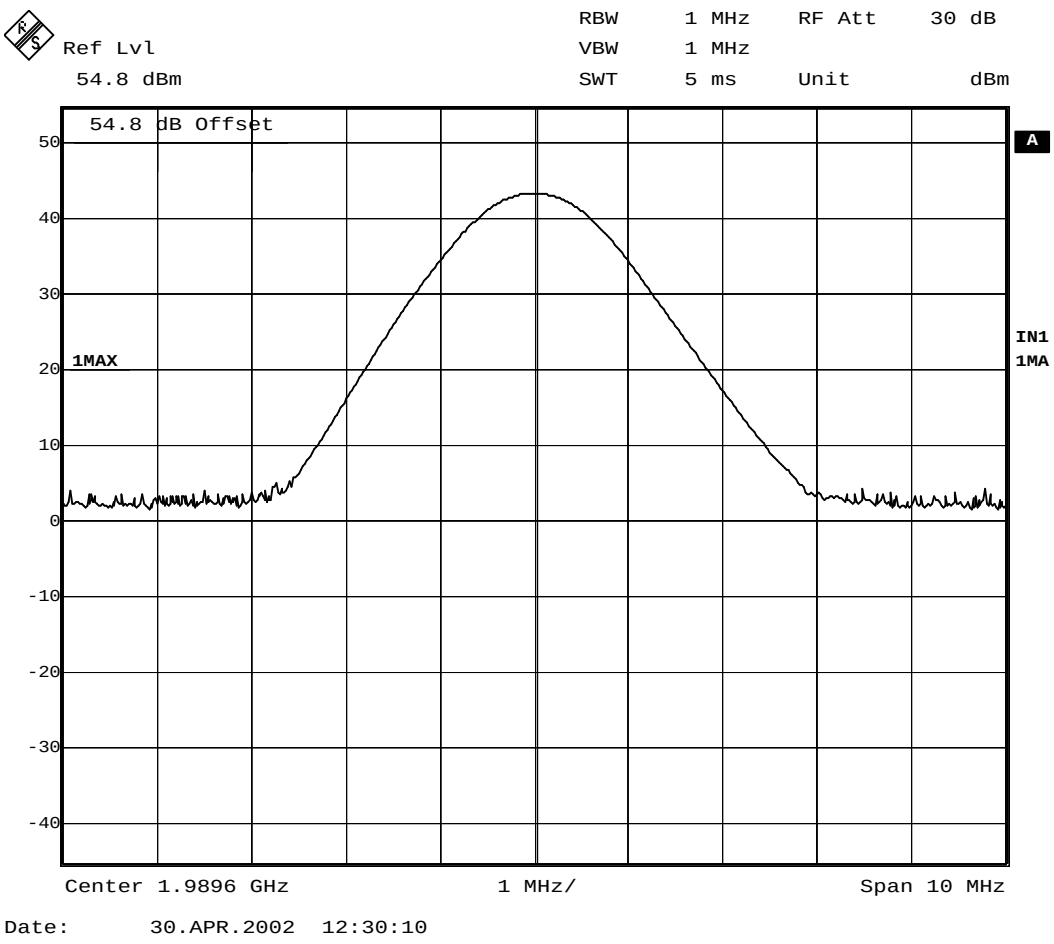
Band edge level



Ch 513, +44.5 dBm

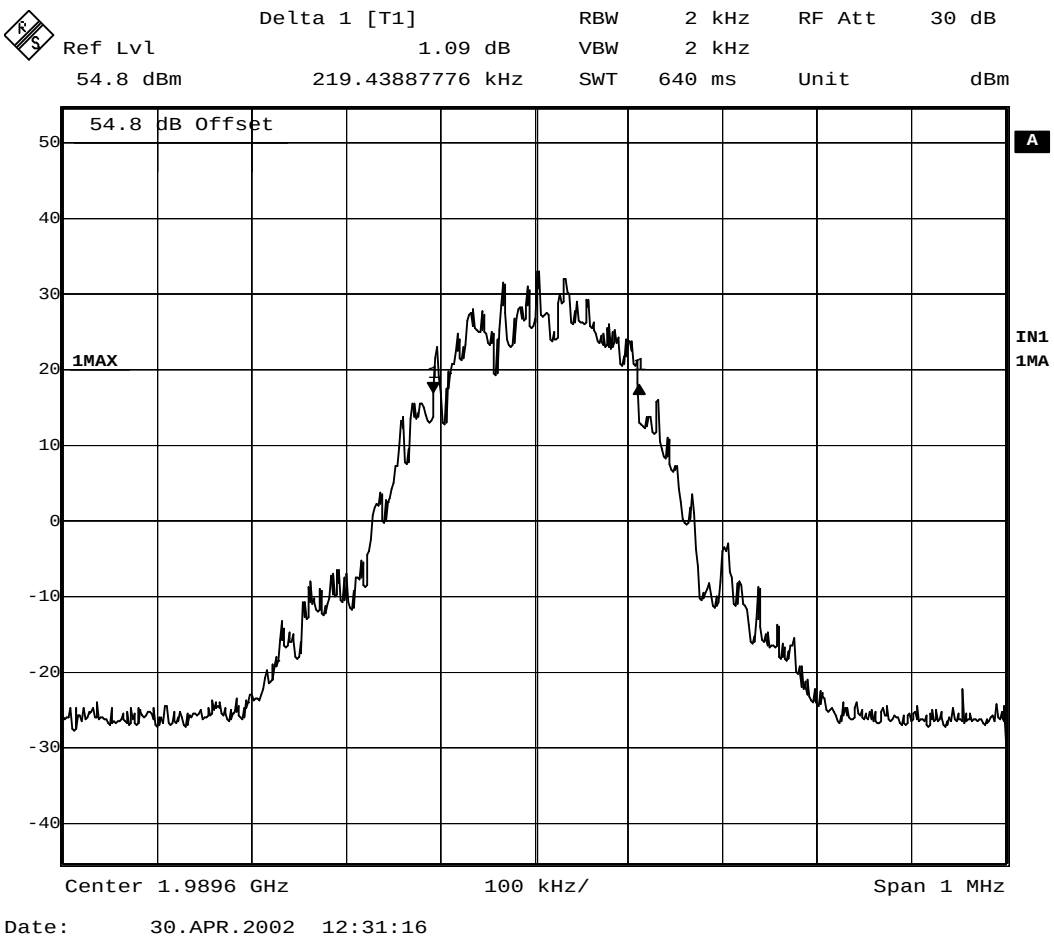
Sign:…..

Reference level



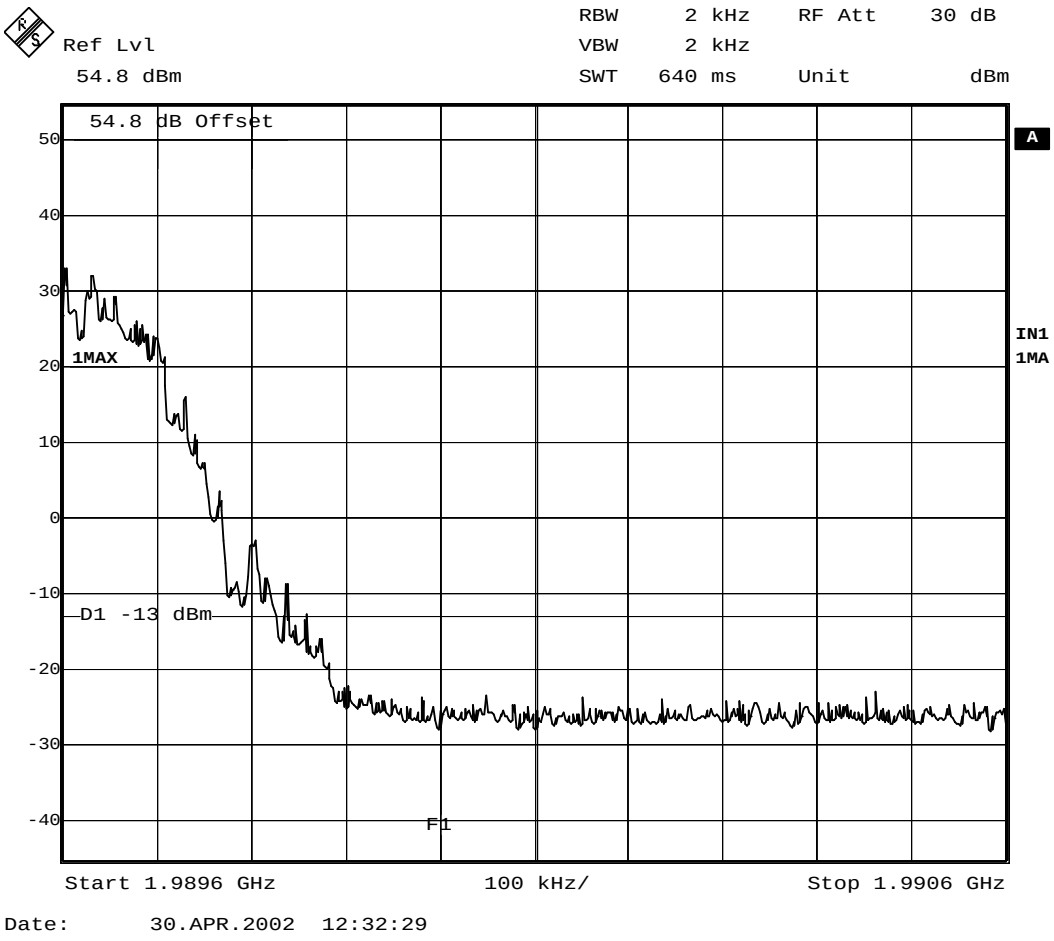
Ch 809, +44.5 dBm

26 dB point



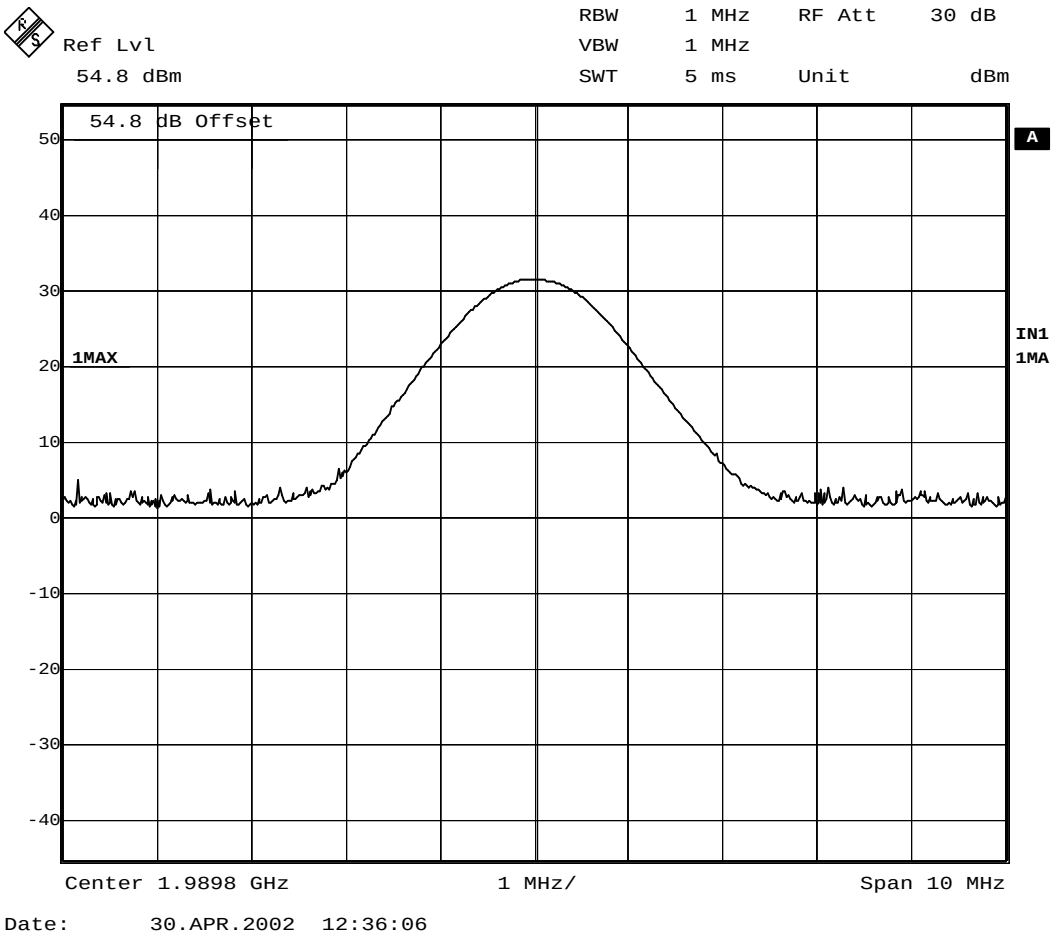
Ch 809, +44.5 dBm

Band edge level



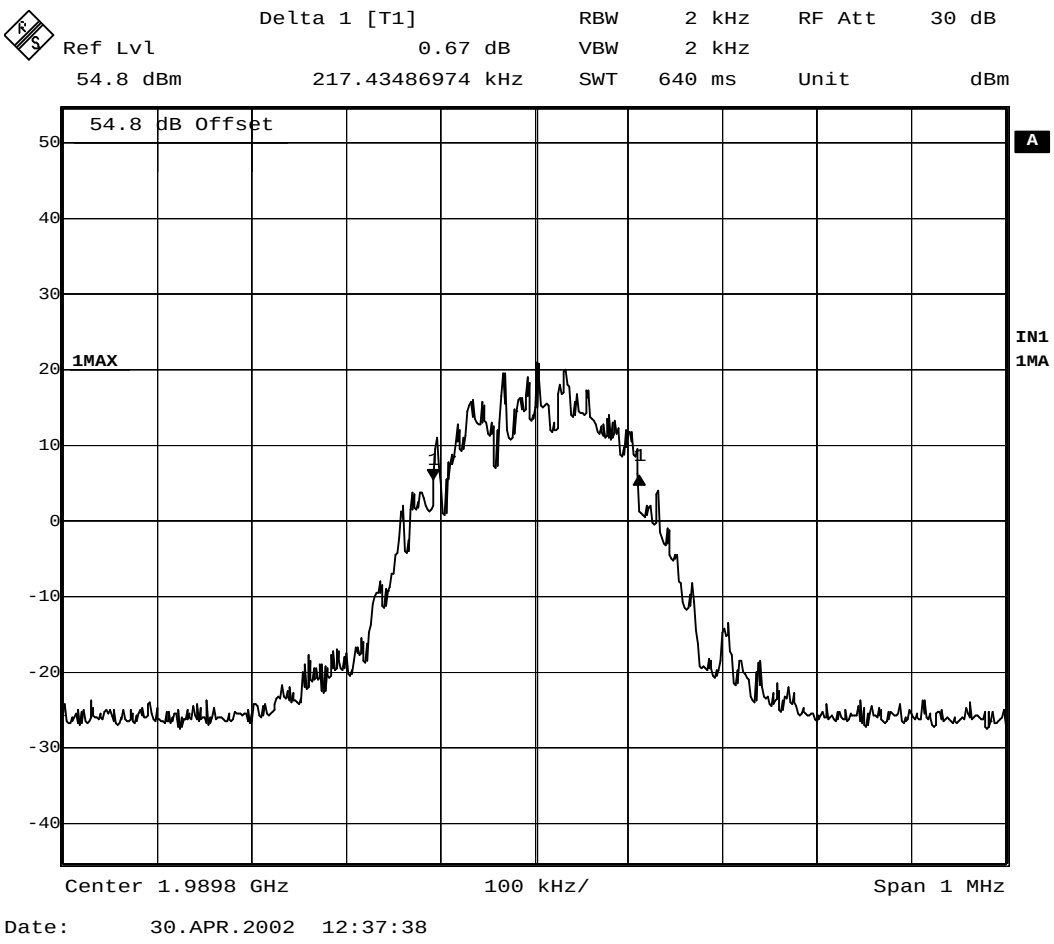
Ch 809, +44.5 dBm

Reference level



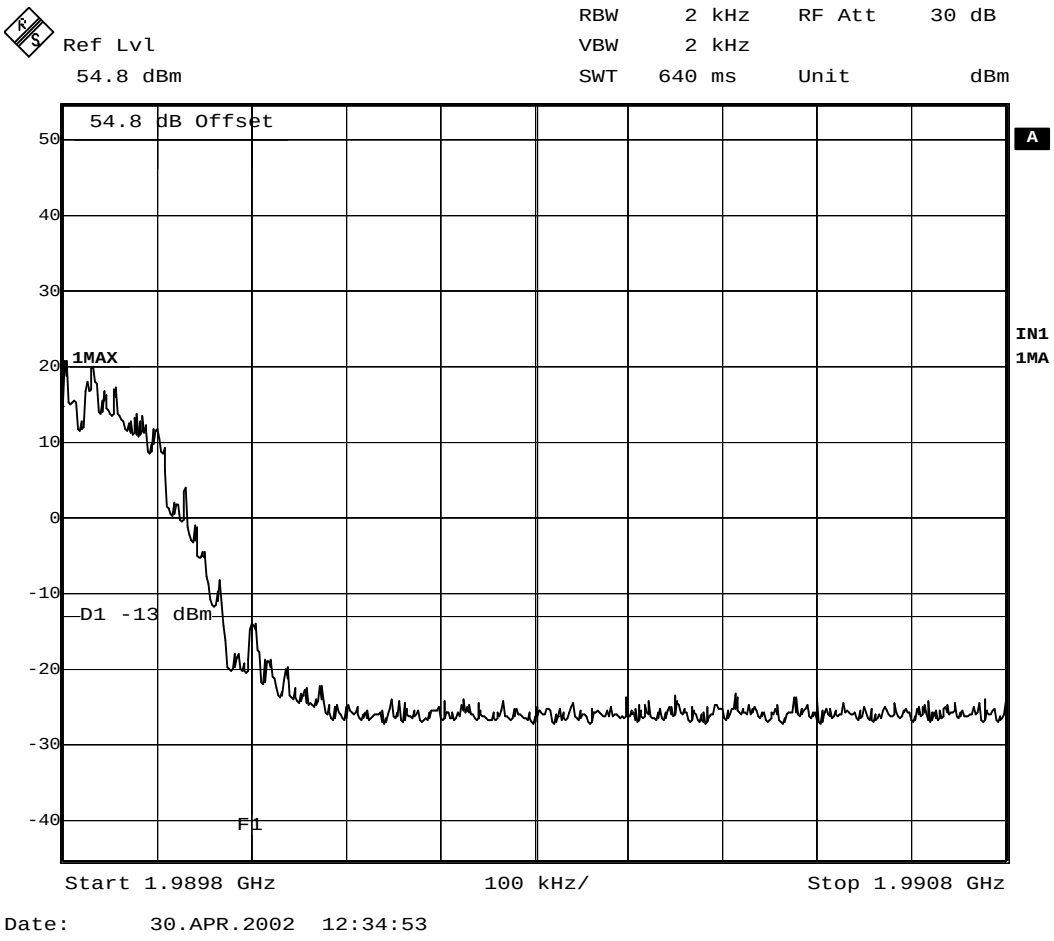
Ch 810, +32.5 dBm

26 dB point



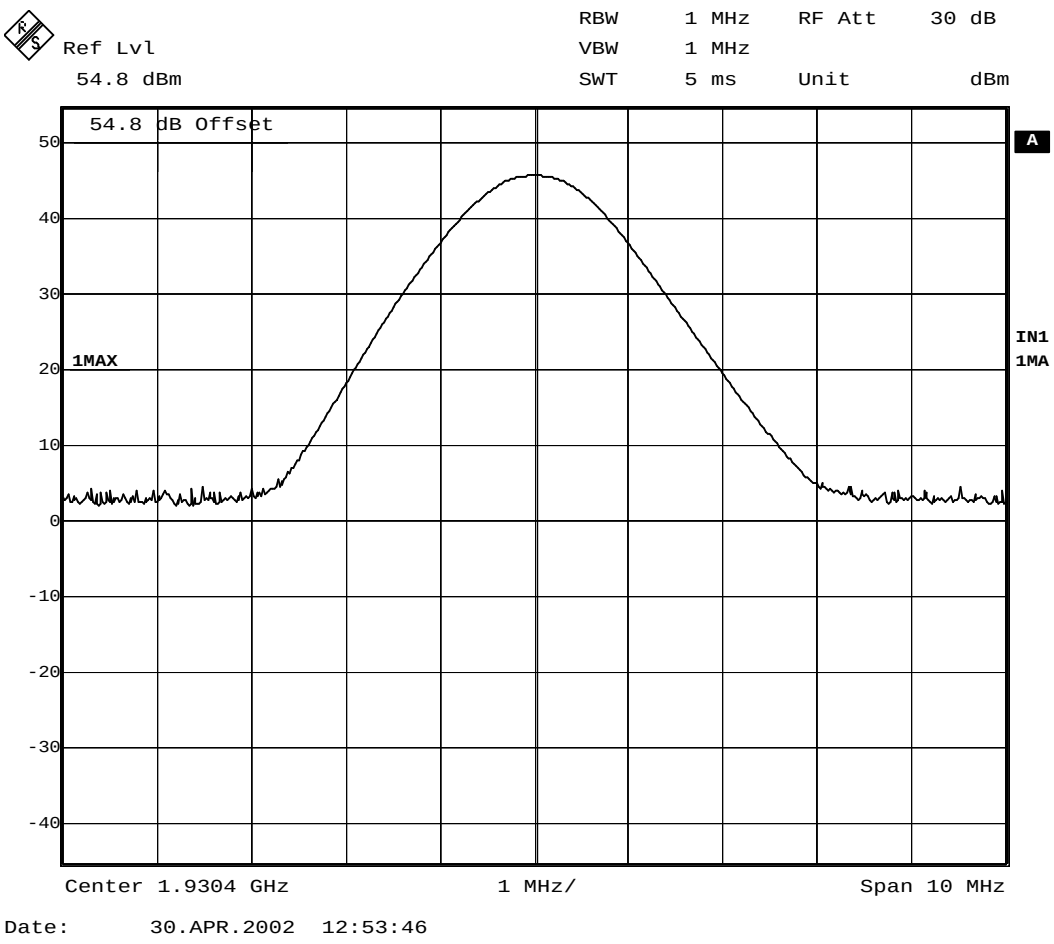
Ch 810, +32.5 dBm

Band edge level



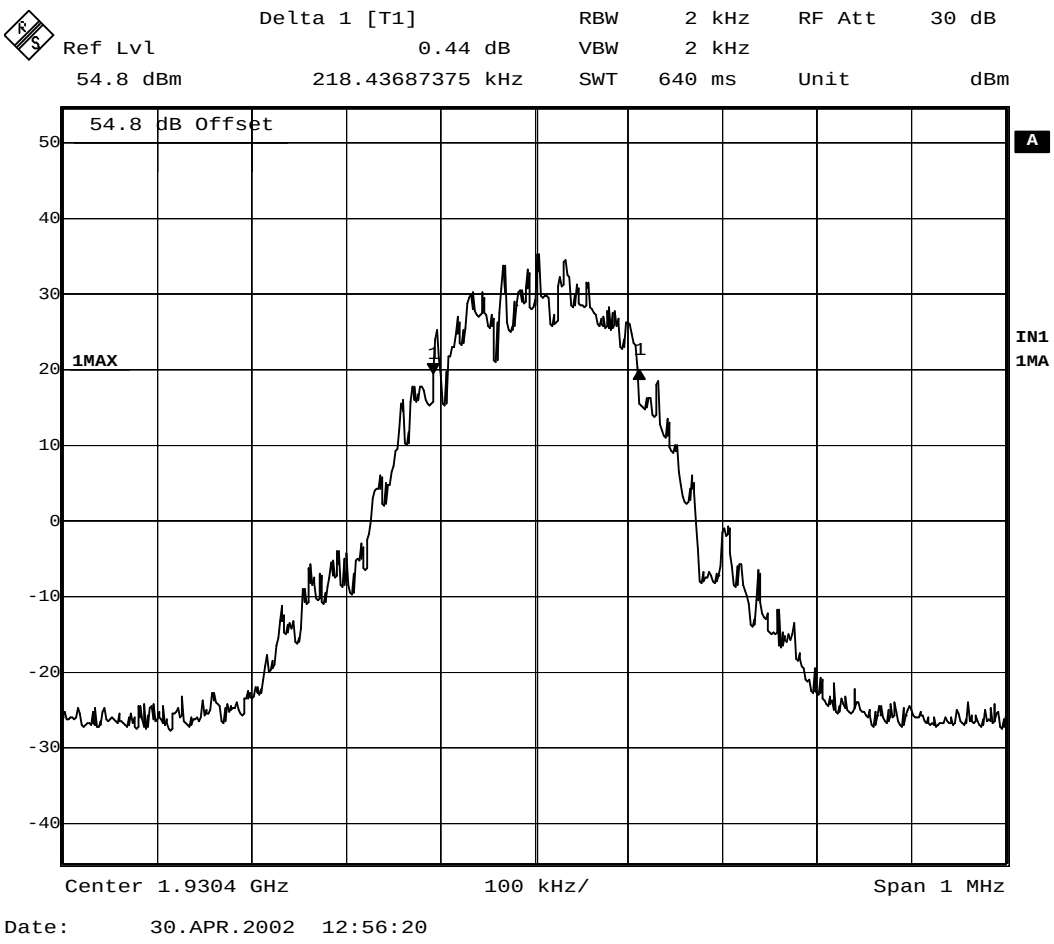
Ch 810, +32.5 dBm

Reference level



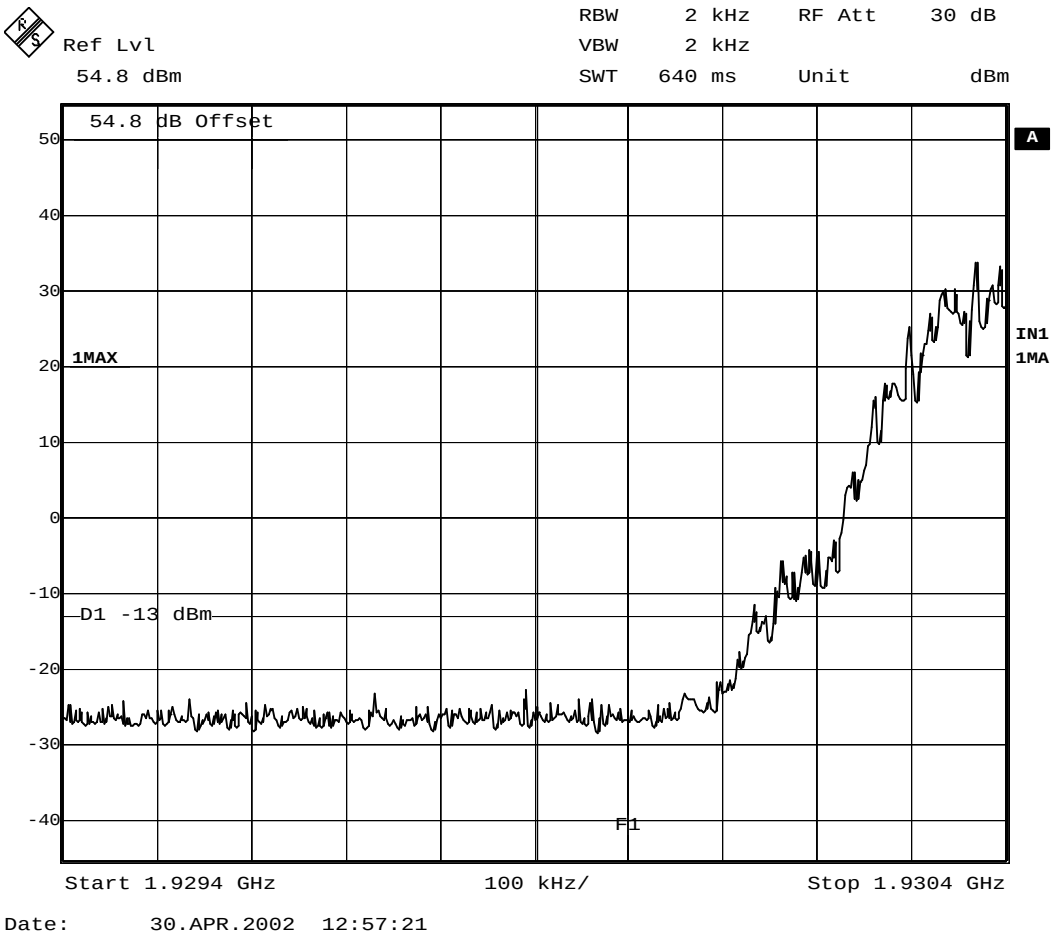
Ch 513, +47 dBm

26 dB point



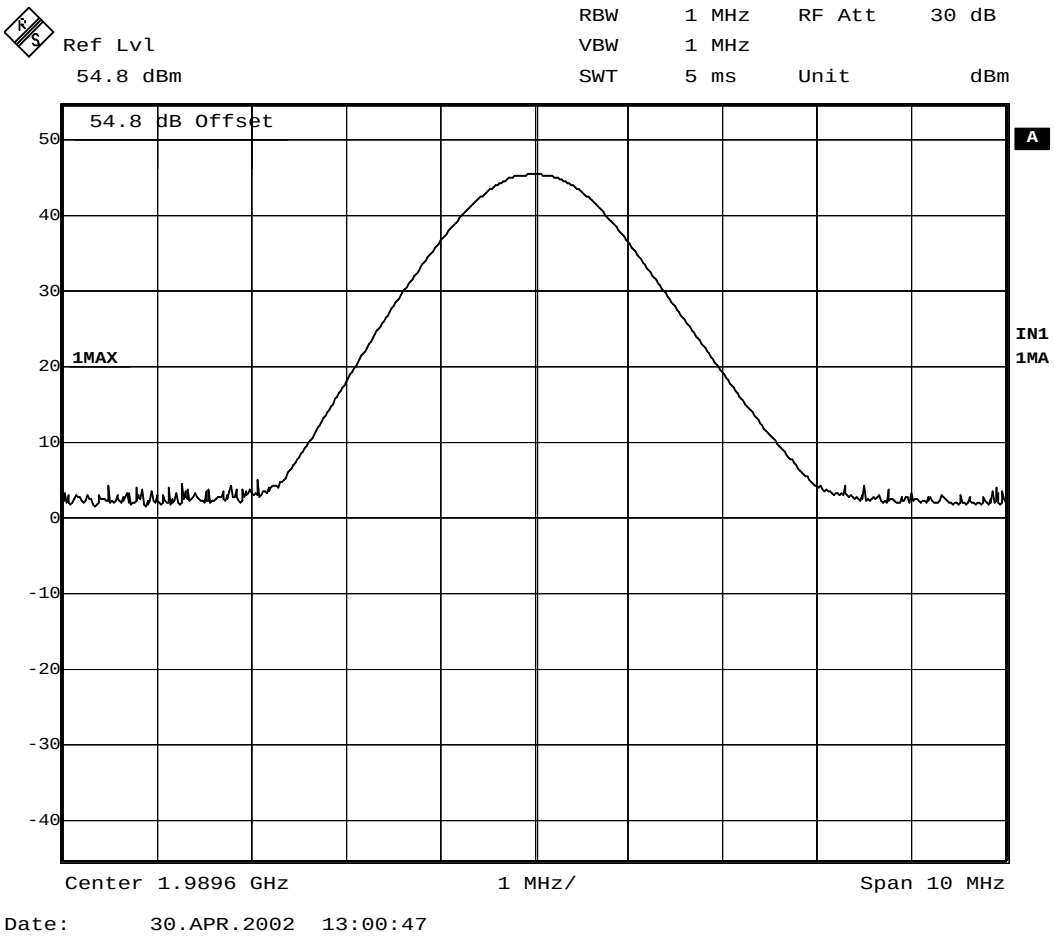
Ch 513, +47 dBm

Band edge level



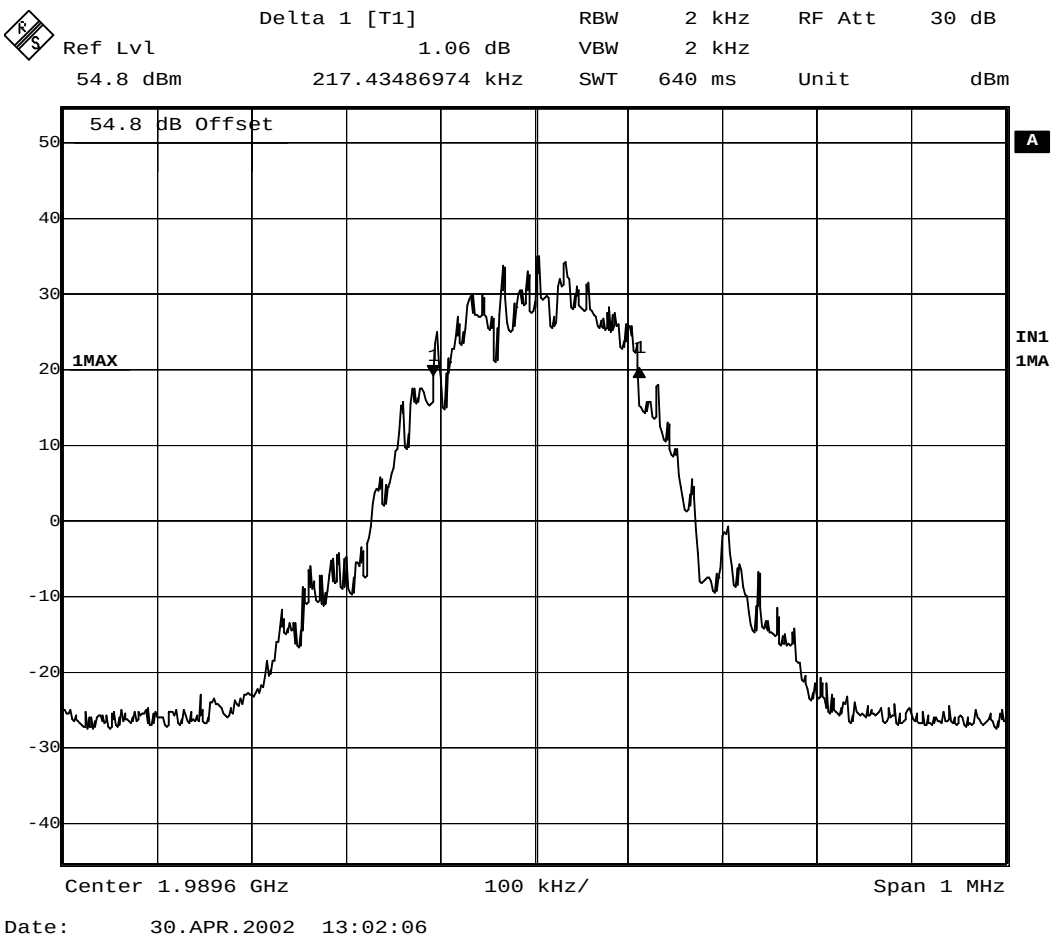
Ch 513, +47 dBm

Reference level



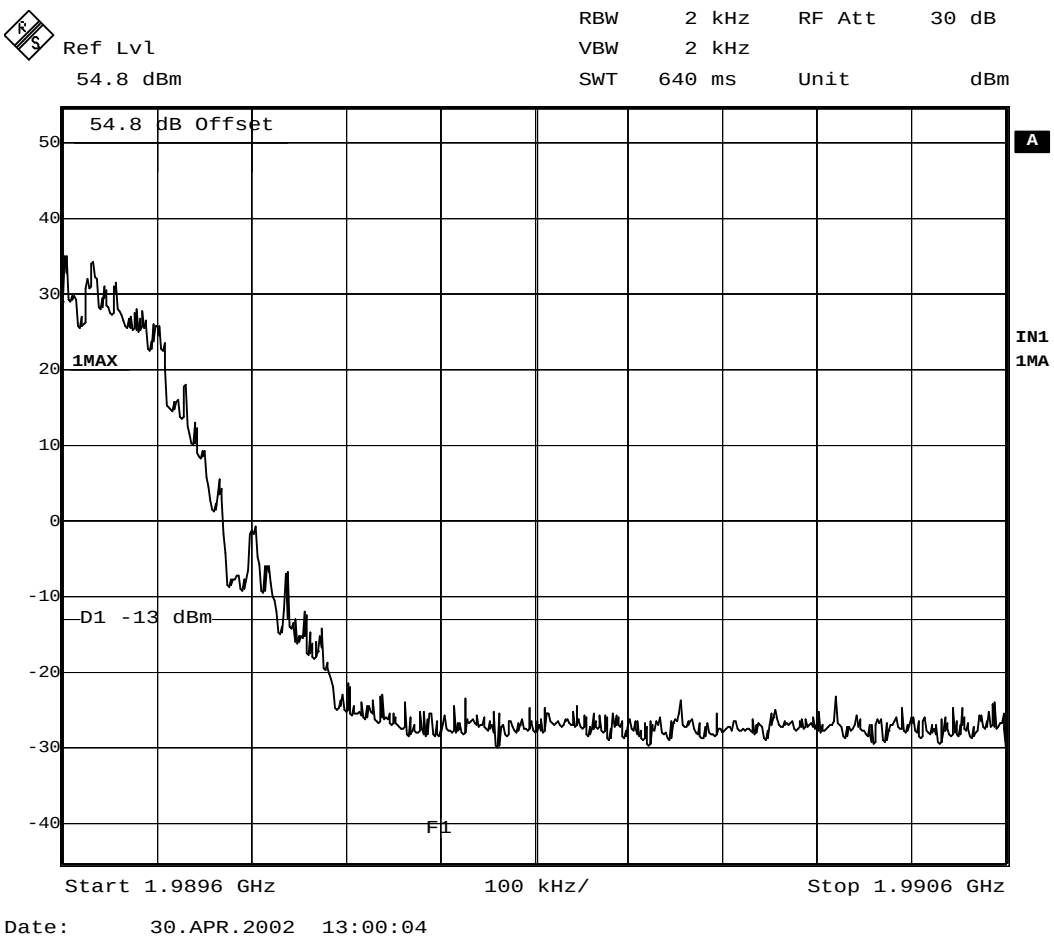
Ch 809, +47 dBm

26 dB point



Ch 809, +47 dBm

Band edge level



Ch 809, +47 dBm

Sign:…..

Conducted spurious emission measurements according to 47CFR 2.1051

Date	Temperature	Humidity
2002-04-29	23 °C ± 3 °C	38 % ± 5 %

Test set-up and Procedure

The measurement were made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a spectrum analyser. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
R&S ESI 40 with option FSE-B7	2002-07	503 125
Testo 610, Temperature and humidity meter	2002-11	502 658

Measurement uncertainty: 3.7 dB

Results

dTRU, without internal combiner:

Diagram 1: TRX output 1, Ch 512, +44.5 dBm
Diagram 2: TRX output 1, Ch 810, +44.5 dBm
Diagram 3: TRX output 2, Ch 512, +44.5 dBm
Diagram 4: TRX output 2, Ch 810, +44.5 dBm
Diagram 5: TRX output 2, Ch 810, Ambient

dTRU, with internal combiner:

Diagram 6: Ch 512, +41 dBm and ch 537, +41 dBm
Diagram 7: Ch 785, +41 dBm and ch 810, +41 dBm

dTRU, (TCC), (TX1+TX2):

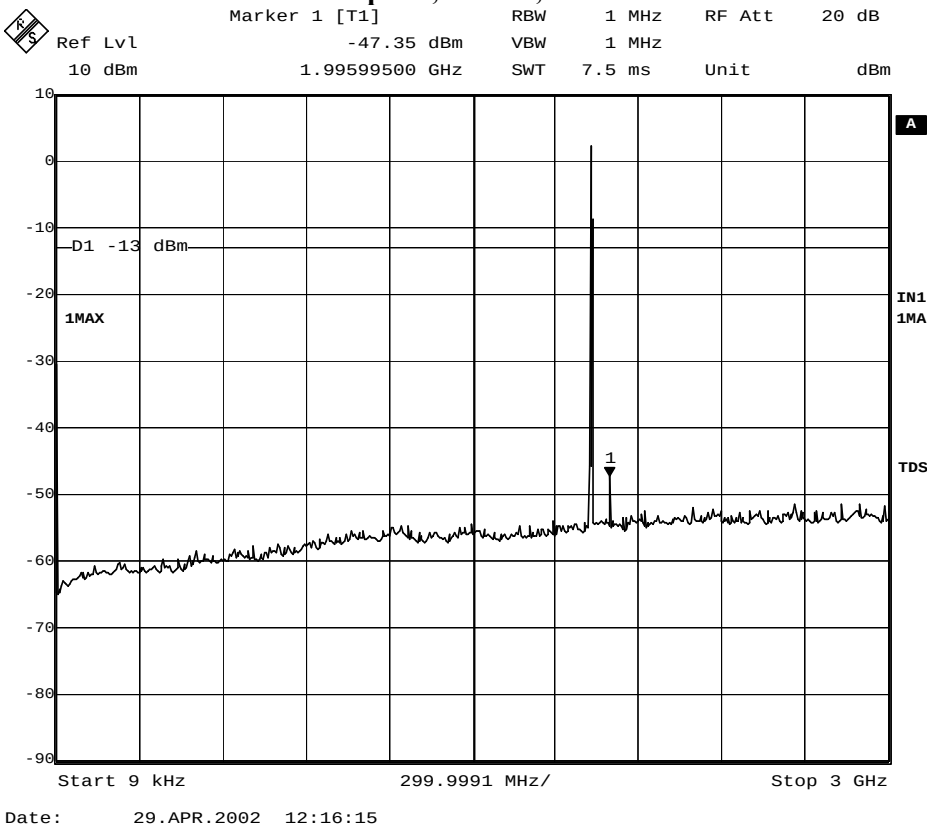
Diagram 8: Ch 512, +47 dBm
Diagram 9: Ch 810, +47 dBm

Limits

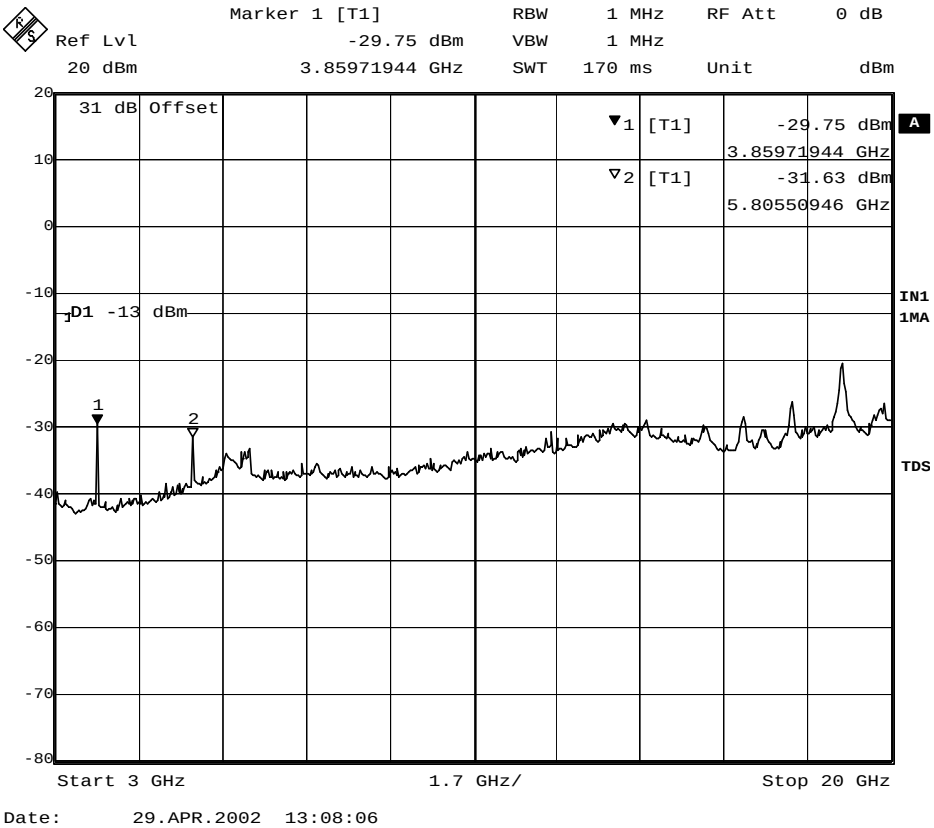
The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least 43 + 10 log P dB.

Complies?	Yes

TRX output 1, Ch 512, +44.5 dBm



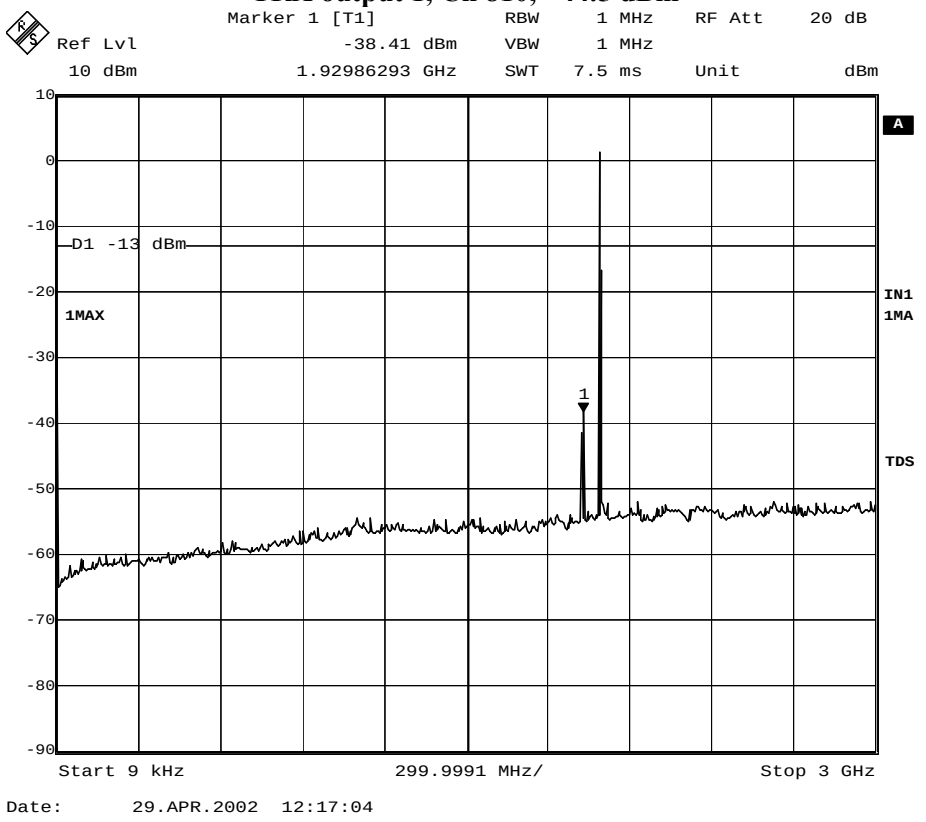
9 k – 3 GHz



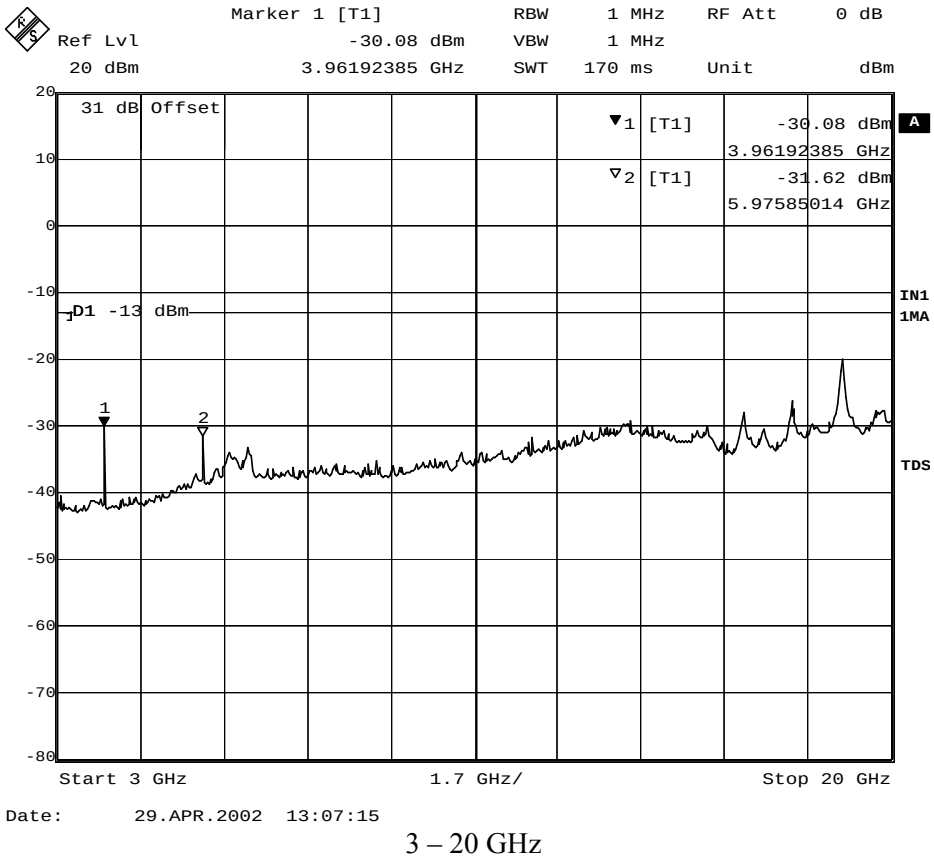
3 – 20 GHz

Sign:…..

TRX output 1, Ch 810, +44.5 dBm



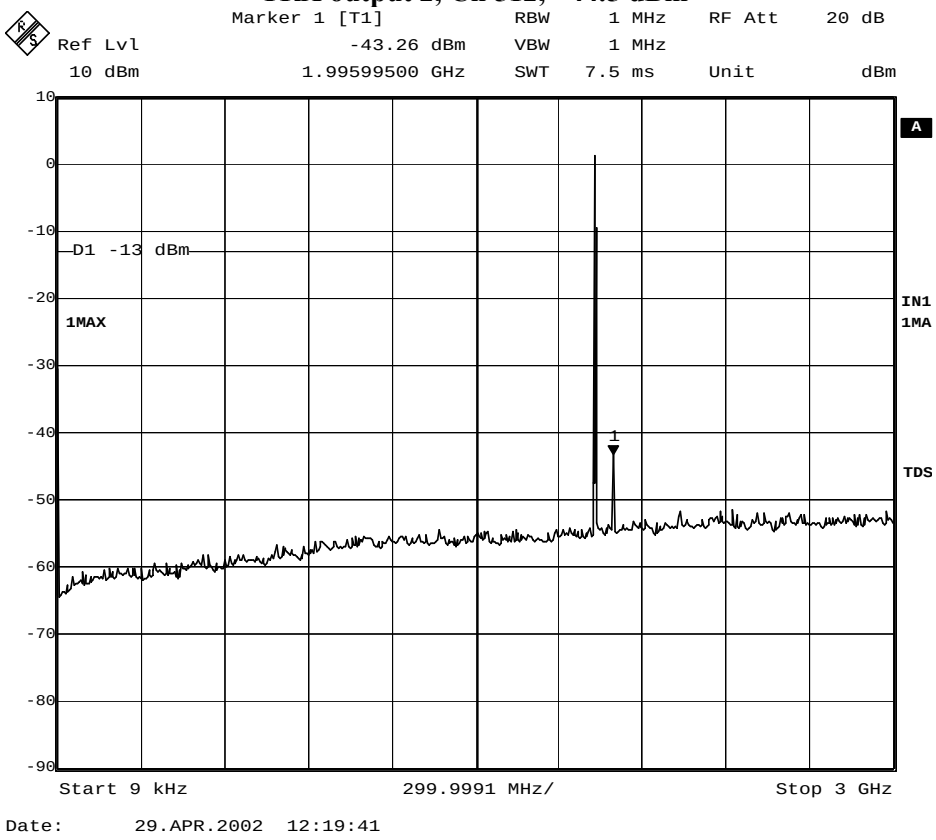
9 k – 3 GHz



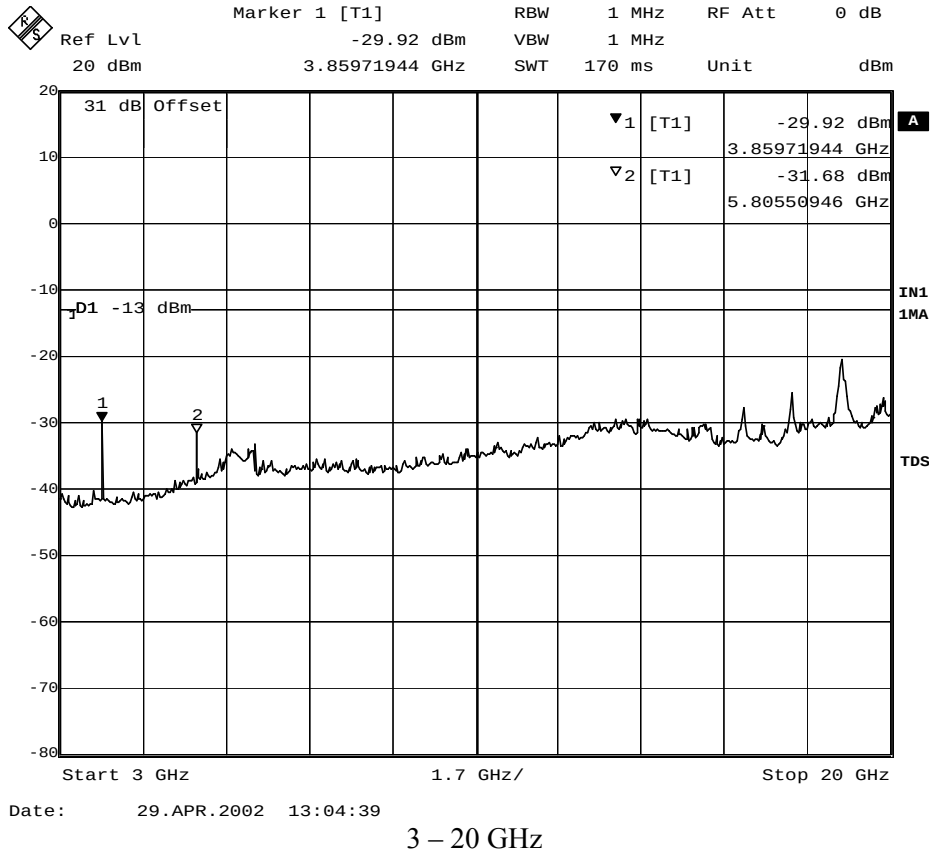
3 – 20 GHz

Sign:…..

TRX output 2, Ch 512, +44.5 dBm



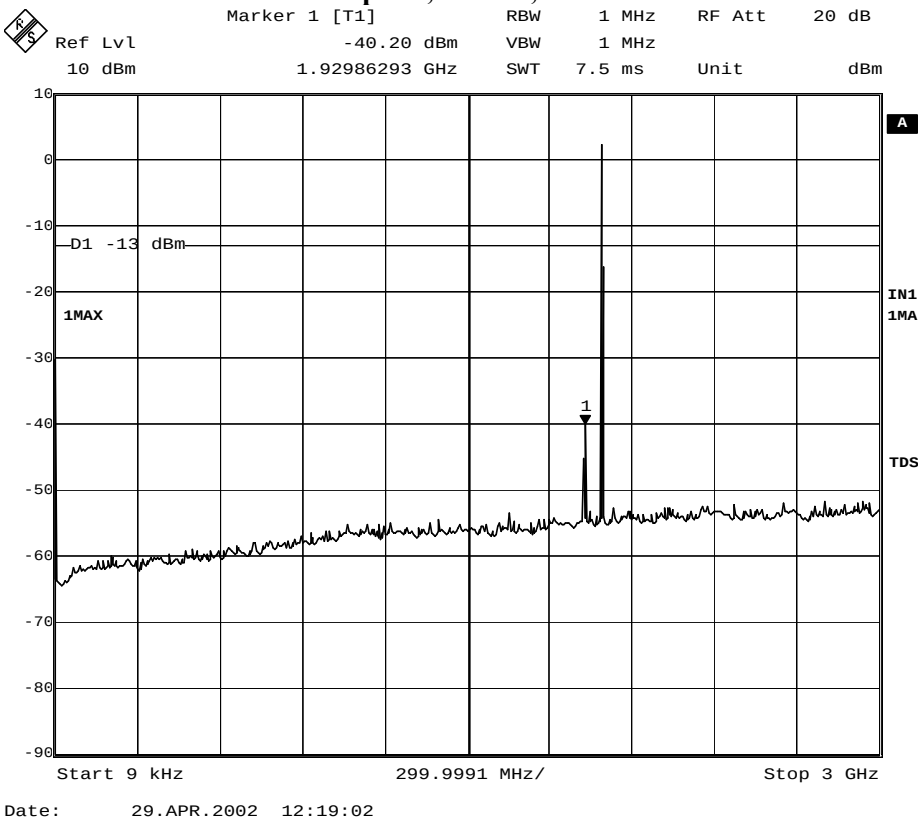
9 k – 3 GHz



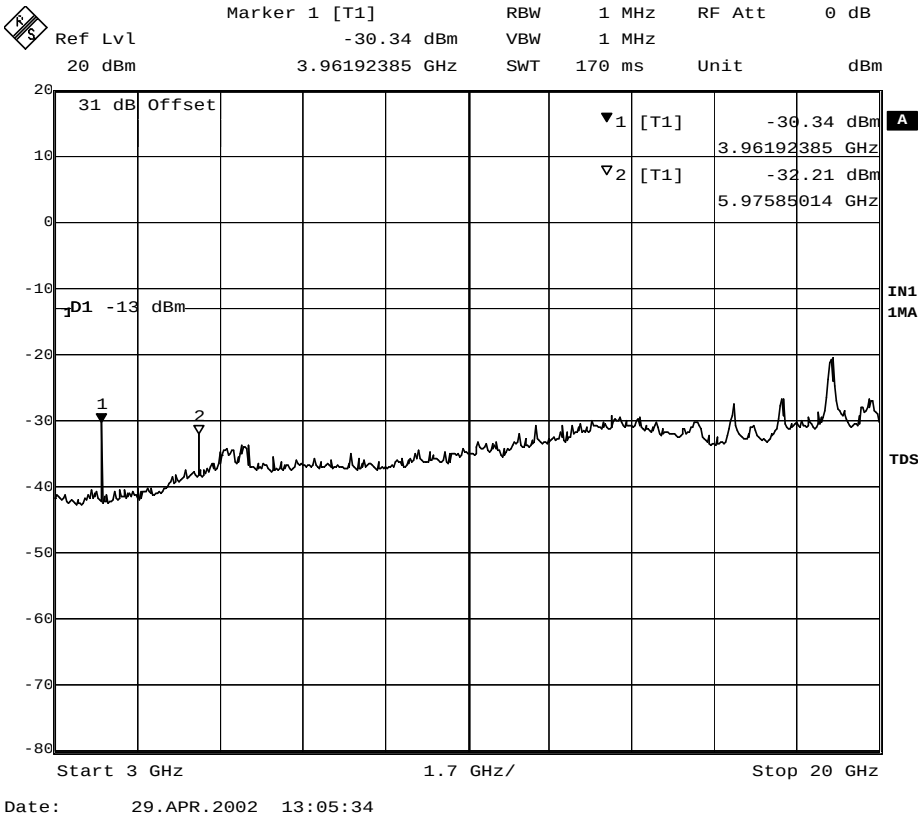
3 – 20 GHz

Sign:…..

TRX output 2, Ch 810, +44.5 dBm



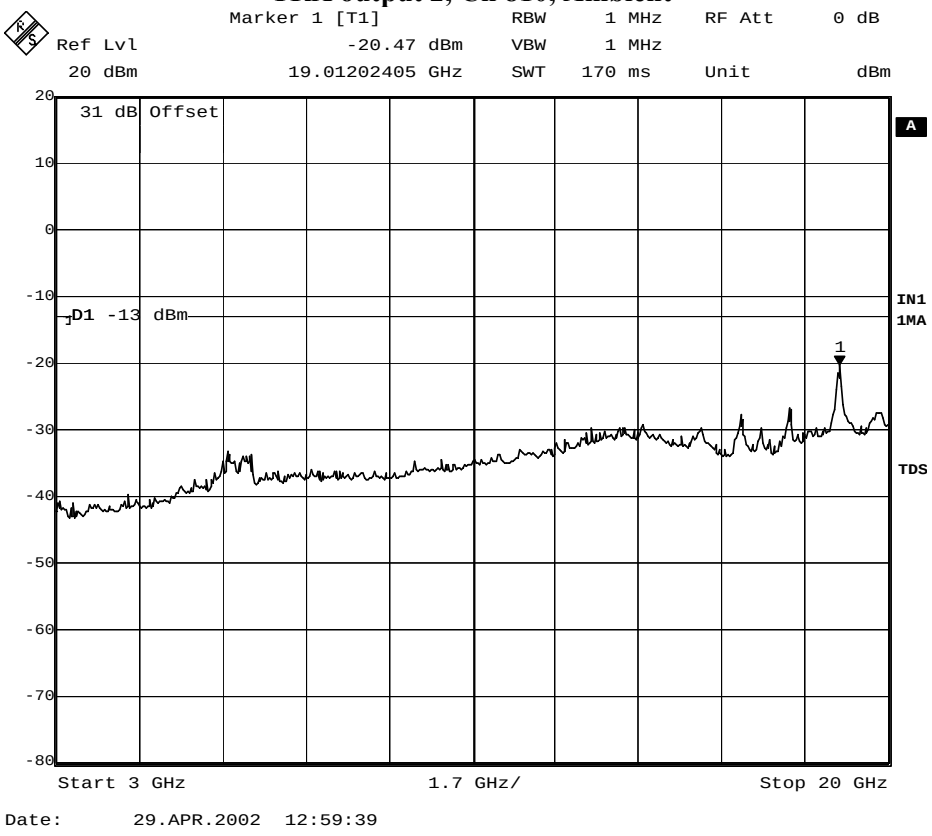
9 k – 3 GHz



3 – 20 GHz

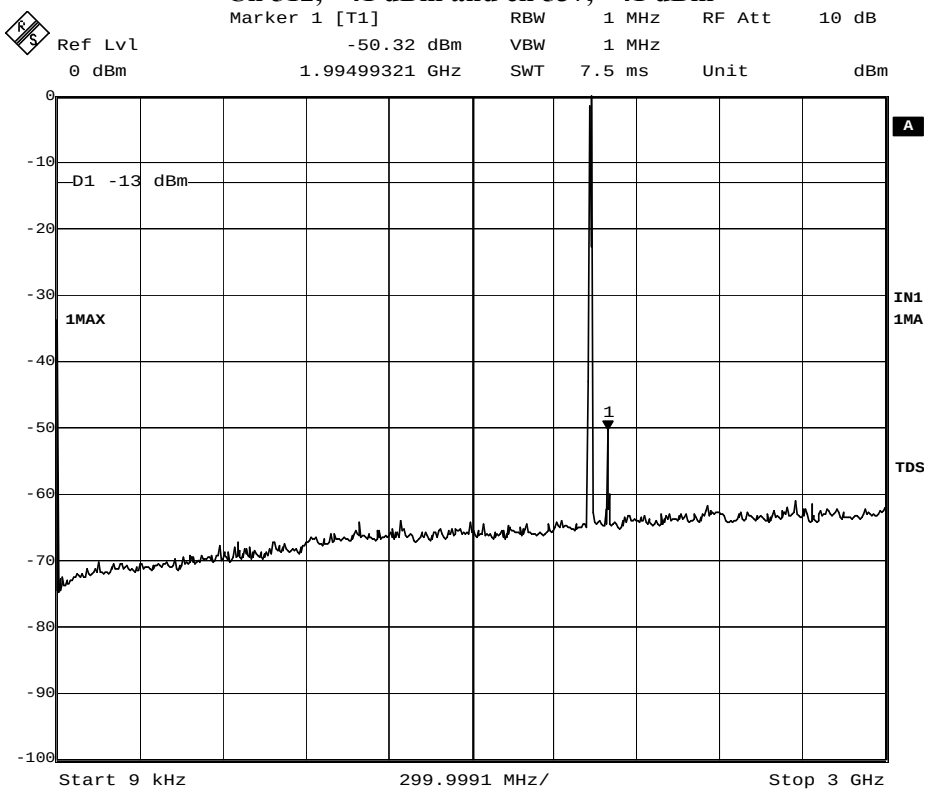
Sign:…..

TRX output 2, Ch 810, Ambient

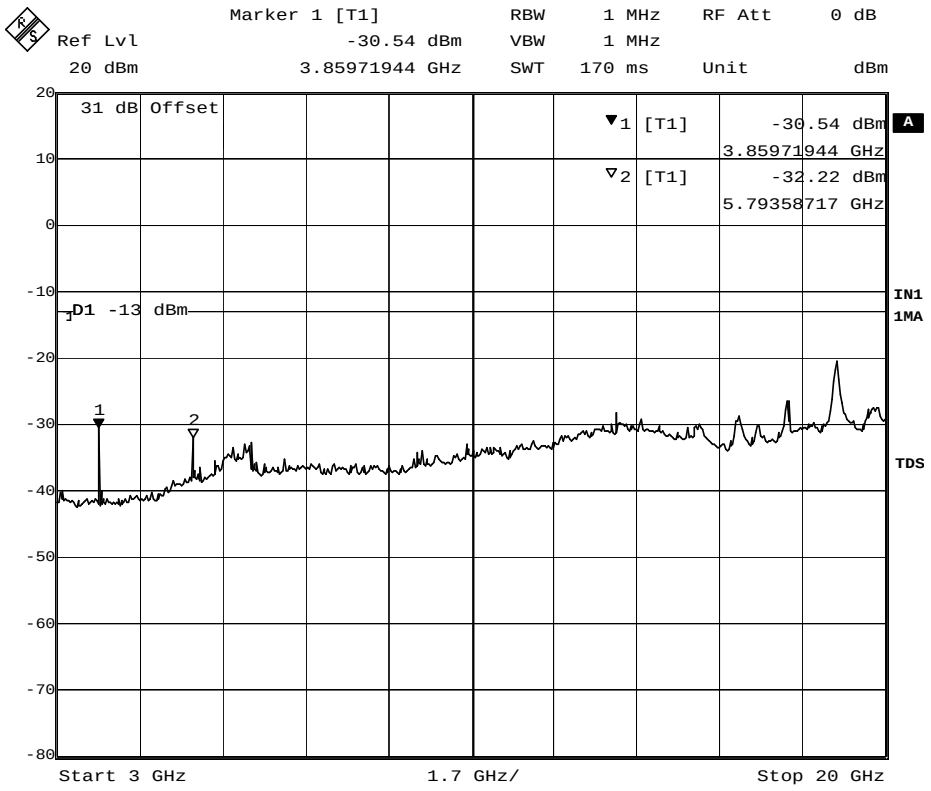


3 – 20 GHz

Ch 512, +41 dBm and ch 537, +41 dBm



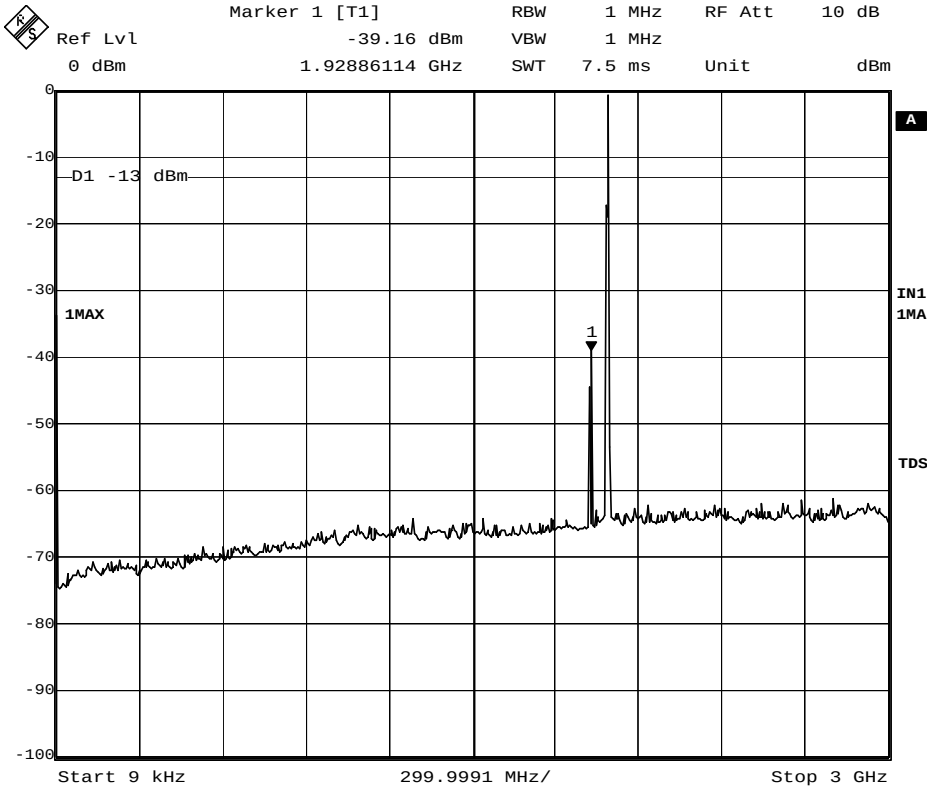
9 k – 3 GHz



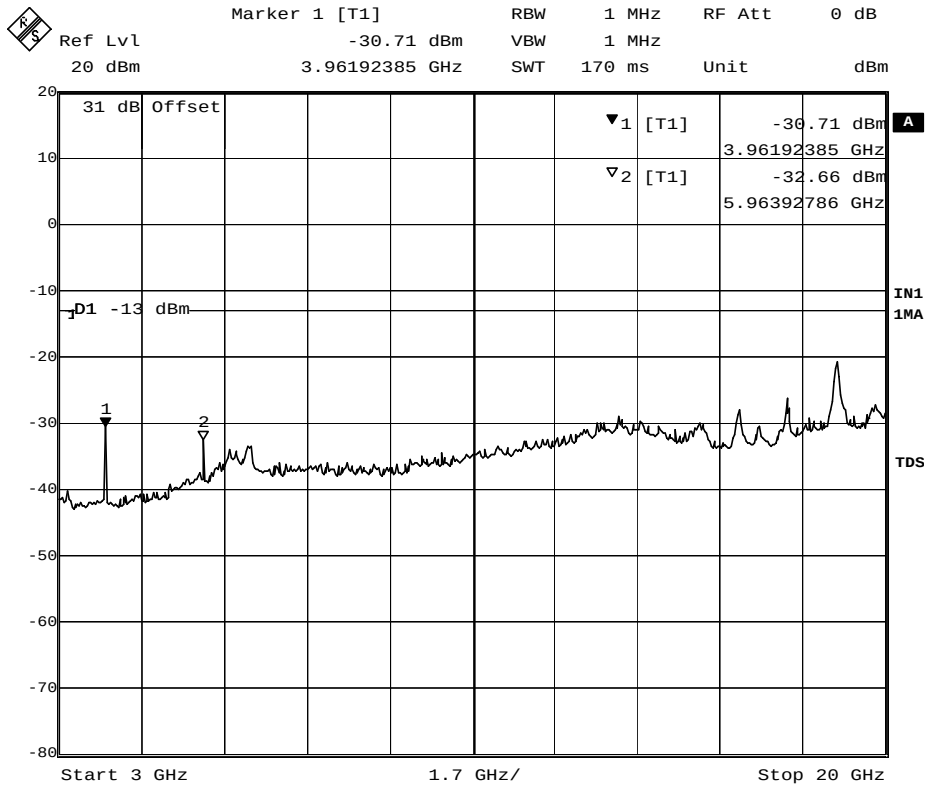
3 – 20 GHz

Sign:…..

Ch 785, +41 dBm and ch 810, +41 dBm



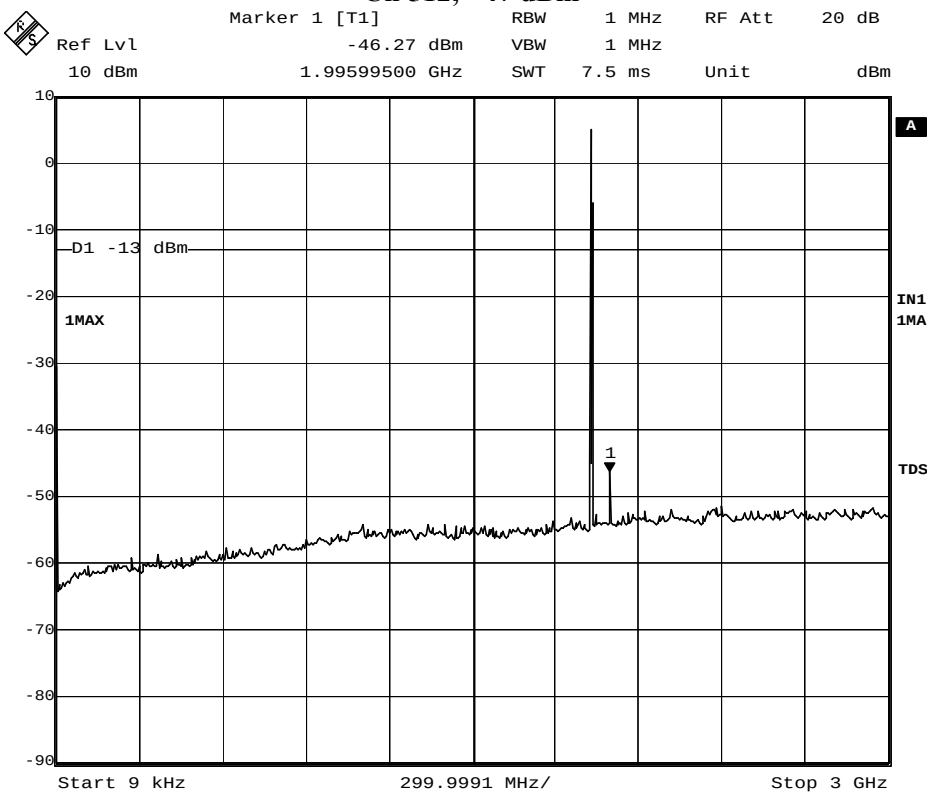
9 k – 3 GHz



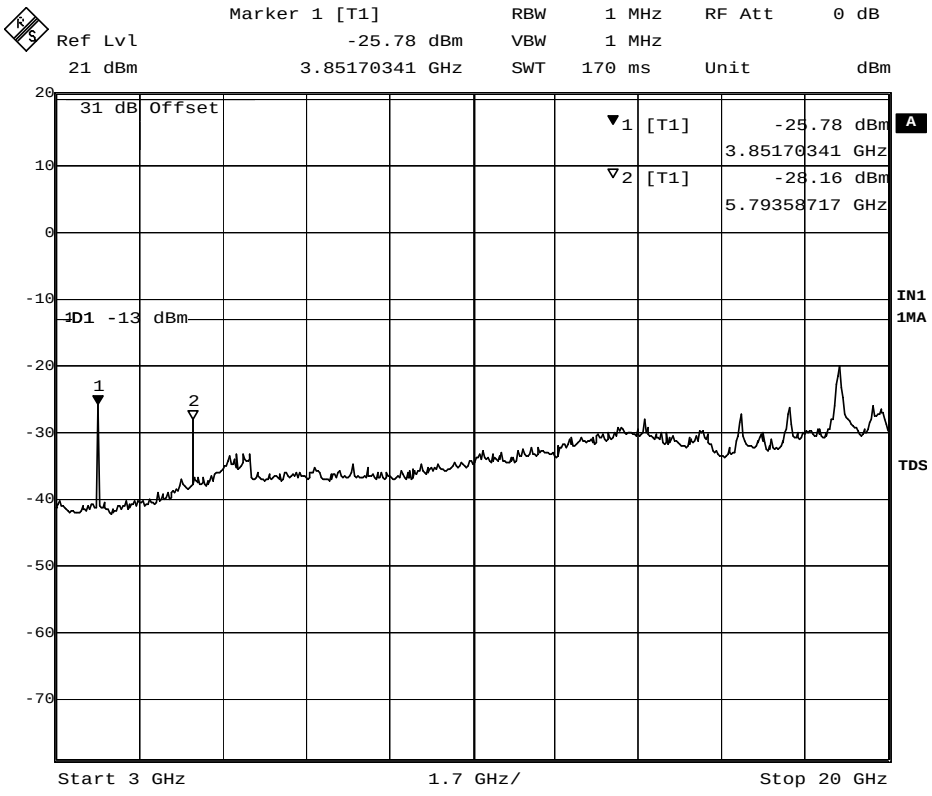
3 – 20 GHz

Sign:…..

Ch 512, +47 dBm



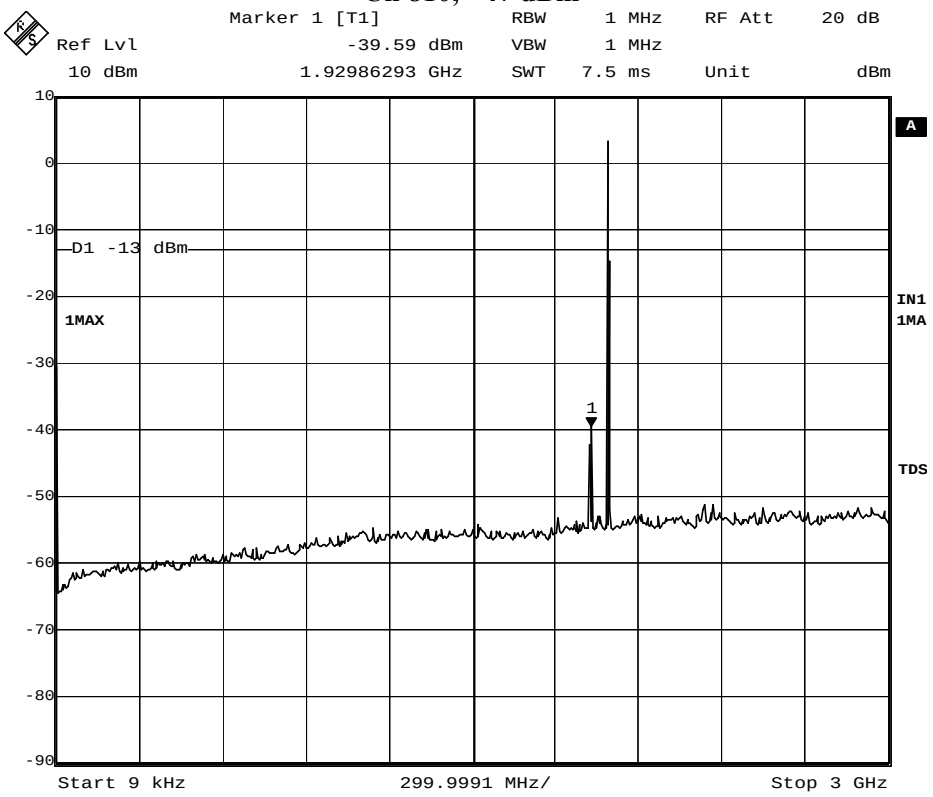
9 k – 3 GHz



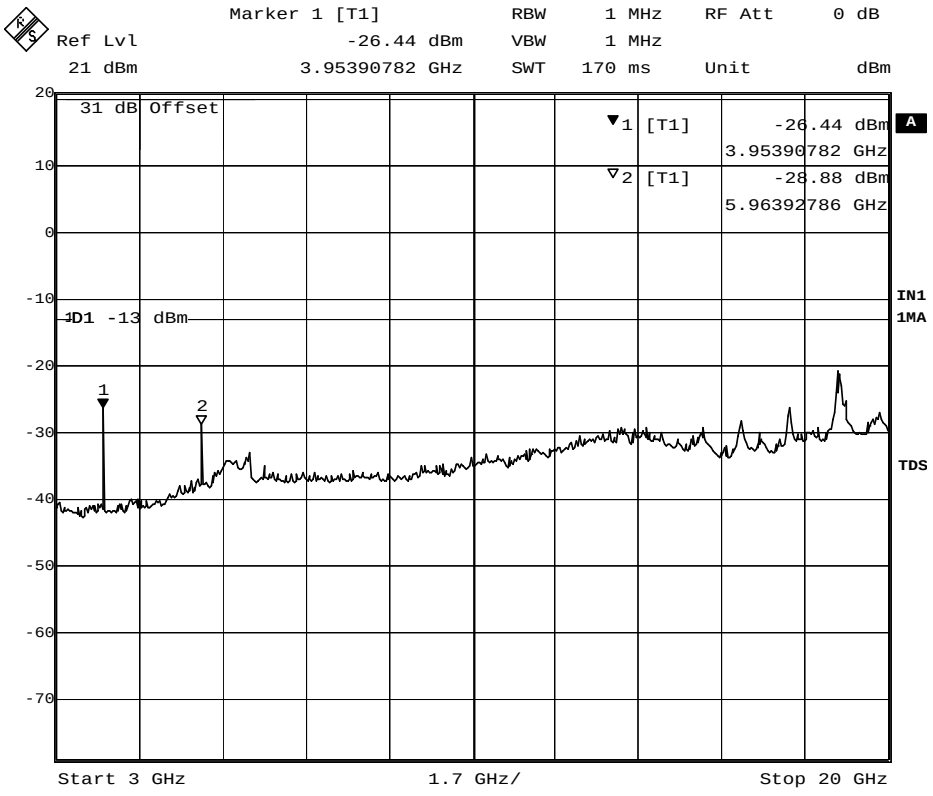
3 – 20 GHz

Sign:…..

Ch 810, +47 dBm



9 k – 3 GHz



3 – 20 GHz

Sign:…..

Field strength of spurious radiation measurements according to 47CFR 2.1053

Date	Temperature	Humidity
2002-04-17	22 °C ± 3 °C	42 % ± 5 %
2002-04-22	22 °C ± 3 °C	28 % ± 5 %
2002-04-23	22 °C ± 3 °C	34 % ± 5 %

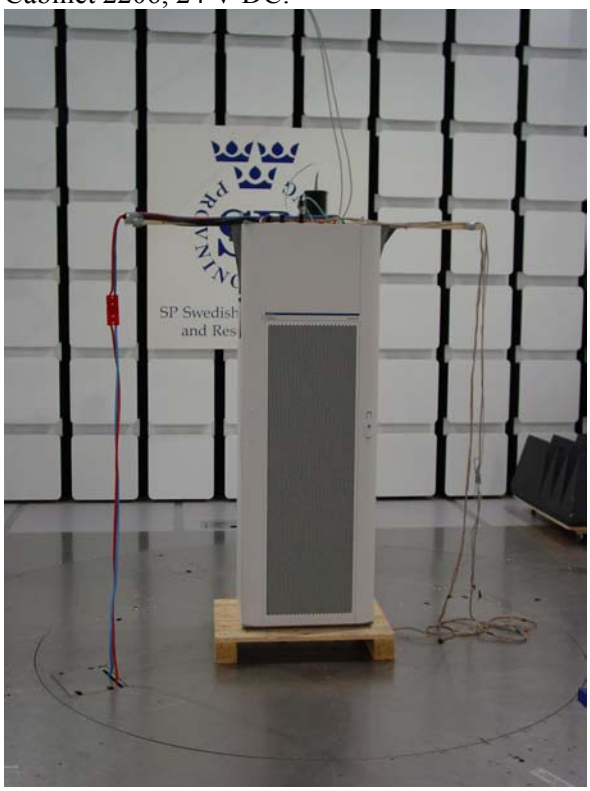
Test set-up and Procedure

The measurement procedure is per ANSI/TIA/EIA-603-1992. The chamber is listed at FCC, Columbia with registration number: 93866. The test site also complies with RSS 212, Issue 1, Industry Canada file no. :IC 3482.
Measurements were done at 3 m distance in the frequency range 9 kHz-18 GHz and at 1 m in the range 18-20 GHz. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
Anechoic chamber	-	15:115
R&S ESI 40	2002-07	503 125
Control computer	-	503 479
Software: R&S ES-K1, ver. 1.60	-	-
Chase Bilog antenna CBL 6111A	2003-12	503 182
EMCO loop antenna 6502	2002-07	502 916
EMCO Horn Antenna 3115	2002-09	502 175
EMCO Horn Antenna 3116	2003-09	503 279
MITEQ Low Noise Amplifier	2003-02	503 277
Testo 610, Temperature and humidity meter	2002-11	502 658

The test set-up during the spurious radiation measurements can be seen in the pictures below.

Cabinet 2206, 24 V DC:



Cabinet 2106, 208 V AC (between two phases):

Results

Cabinet 2206, three modes at the same time: TCC, internal combiner and without internal combiner
Nominal Voltage 24 V DC
Output power TCC: +47 dBm
Output power without internal combiner: +44.5 dBm
Output power with internal combiner: +41 dBm

Frequency (MHz)	Spurious emission level (dBm)	
	Vertical	Horizontal
0.009-20 000	All emission > 20 dB below limit	All emission > 20 dB below limit
Measurement uncertainty		4.7 dB

Cabinet 2106, three modes at the same time: TCC, internal combiner and without internal combiner
Nominal Voltage 208 V AC (between two phases)
Output power TCC: +47 dBm
Output power without internal combiner: +44.5 dBm
Output power with internal combiner: +41 dBm

Frequency (MHz)	Spurious emission level (dBm)	
	Vertical (9k-30MHz: Longitudinal)	Horizontal (9k-30MHz: Perpendicular)
0.051	-29.5	-26.7
0.009-20 000	All other emission > 20 dB below limit	All other emission > 20 dB below limit
Measurement uncertainty		4.7 dB

Limits

The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least 43 + 10 log P dB.

Complies?	Yes

Frequency stability measurements according to 47CFR 2.1055

Date	Temperature	Humidity
2002-04-24	22 °C ± 3 °C	31 % ± 5 %
2002-04-25	21 °C ± 3 °C	38 % ± 5 %
2002-04-26	21 °C ± 3 °C	41 % ± 5 %

Test set-up and Procedure

The measurement was made per J-STD-007A Vol 1. Measurements were made at CDU-G output connectors. The output was connected to a spectrum analyser. The spectrum analyzer was connected to an external 10 MHz reference standard during measurement. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.

Measurement equipment	Calibration Due	SP number
Climate chamber	2002-10	503 546
R&S ESI 26	2003-04	Ericsson Id: 638906
Frequency Reference Fluke PM6681R	2002-05	502 480
Multimeter Fluke 83	2002-08	501 521
Testo 610, Temperature and humidity meter	2002-11	502 658

Results

Nominal Voltage 24 V DC
44.5 dBm output power at Channel 661 (1960.0 MHz)

Test conditions		Frequency error (Hz)	
Supply voltage DC (V)	T (°C)	TRU Output 1	TRU Output 2
24.0	+20	7	5
27.6	+20	5	10
20.4	+20	4	9
24.0	+30	10	3
24.0	+40	8	13
24.0	+50	11	9
24.0	+10	7	4
24.0	0	7	8
24.0	-10	8	10
24.0	-20	12	12
24.0	-30	11	12
Maximum freq. error (Hz)		13	
Measurement uncertainty		$< \pm 1 \times 10^{-7}$	

Limits

The maximum frequency error shall not be greater than 0.05 ppm (98 Hz).

Complies?	Yes

Intermodulation test

Date	Temperature	Humidity
2002-04-29	23 °C ± 3 °C	38 % ± 5 %

Test set-up and Procedure

The output was connected to a spectrum analyzer. The transmitter was modulated with 270.8 kbs pseudorandom data during the measurements.
The measurements were first done on each output of the EUT without the internal combiner connected. Measurements were repeated with both outputs connected to the internal combiner.

Measurement equipment	Calibration Due	SP number
R&S ESI 40 with option FSE-B7	2002-07	503 125
Testo 610, Temperature and humidity meter	2002-11	502 658

Results

dTRU, without TRU internal combiner:

Diagram 1 TRX Output 1: Ch 512, +44.5 dBm
(TRX Output 2: Ch 537, +44.5 dBm, terminated with 50 Ω)

Diagram 2 TRX Output 1: Ch 810, +44.5dBm
(TRX Output 2: Ch 785, +44.5 dBm, terminated with 50 Ω)

Diagram 3 TRX Output 2: Ch 512, +44.5 dBm
(TRX Output 1: Ch 537, +44.5 dBm, terminated with 50 Ω)

Diagram 4 TRX Output 2: Ch 810, +44.5 dBm
(TRX Output 1: Ch 785, +44.5 dBm, terminated with 50 Ω)

dTRU, with internal combiner:

Diagram 5 TRX Output 1: Ch 512, +41 dBm
TRX Output 2: Ch 537, +41 dBm

Diagram 6 TRX Output 1: Ch 785, +41 dBm
TRX Output 2: Ch 810, +41 dBm

Diagram 7 TRX Output 1: Ch 785, Ambient
TRX Output 2: Ch 810, Ambient

Diagram 8 In band, 1920-2000 MHz, TRX Output 1: Ch 512, +41 dBm
TRX Output 2 Ch 537, + 41 dBm

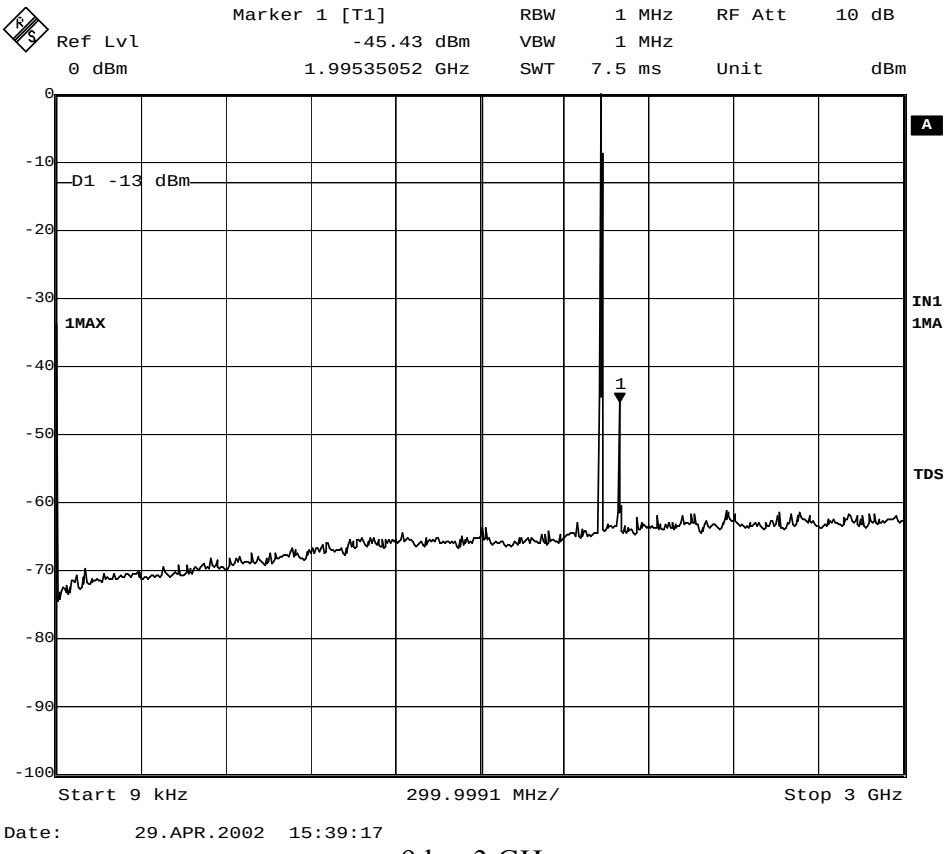
In band, 1920-2000 MHz, TRX Output 1: Ch 785, +41 dBm
TRX Output 2 Ch 810, + 41 dBm

Limits

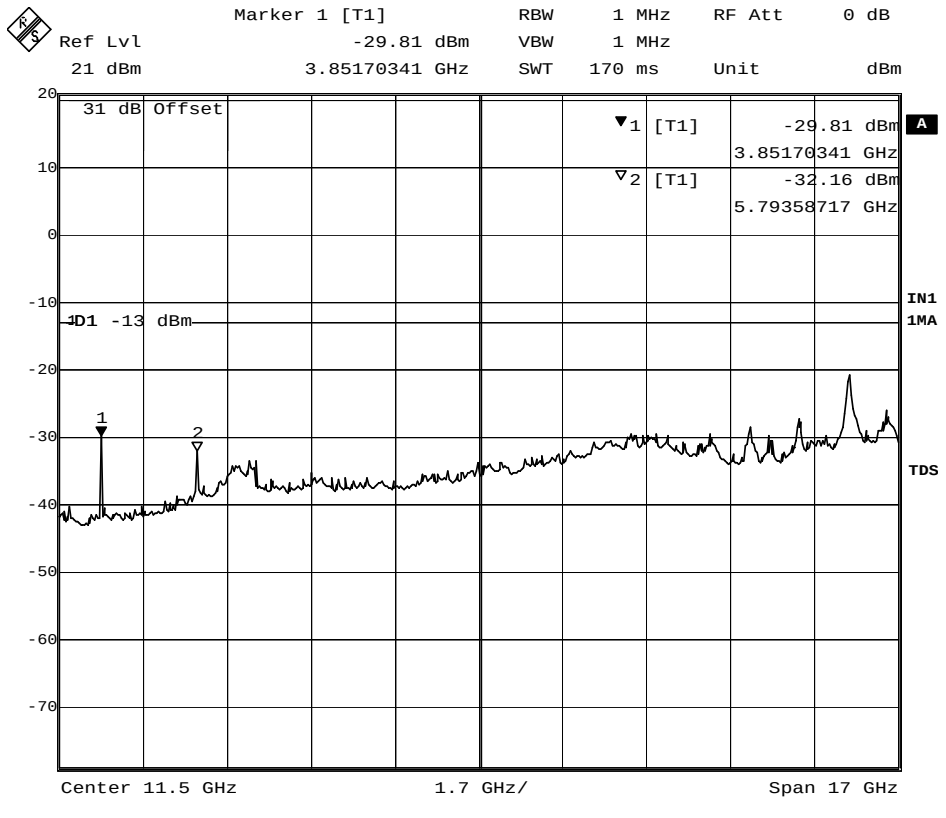
The power of any emission outside the frequency band shall be attenuated below the transmitter power (P) by at least 43 + 10 log P dB.

Complies?	Yes

Ch 512 and Ch 537



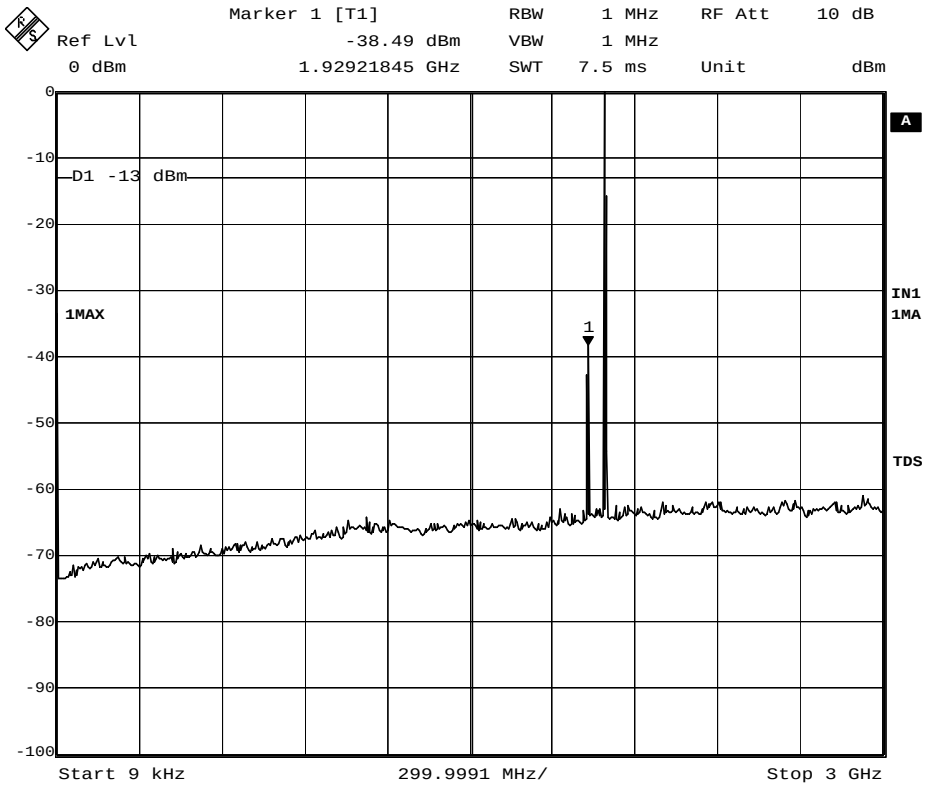
9 k – 3 GHz



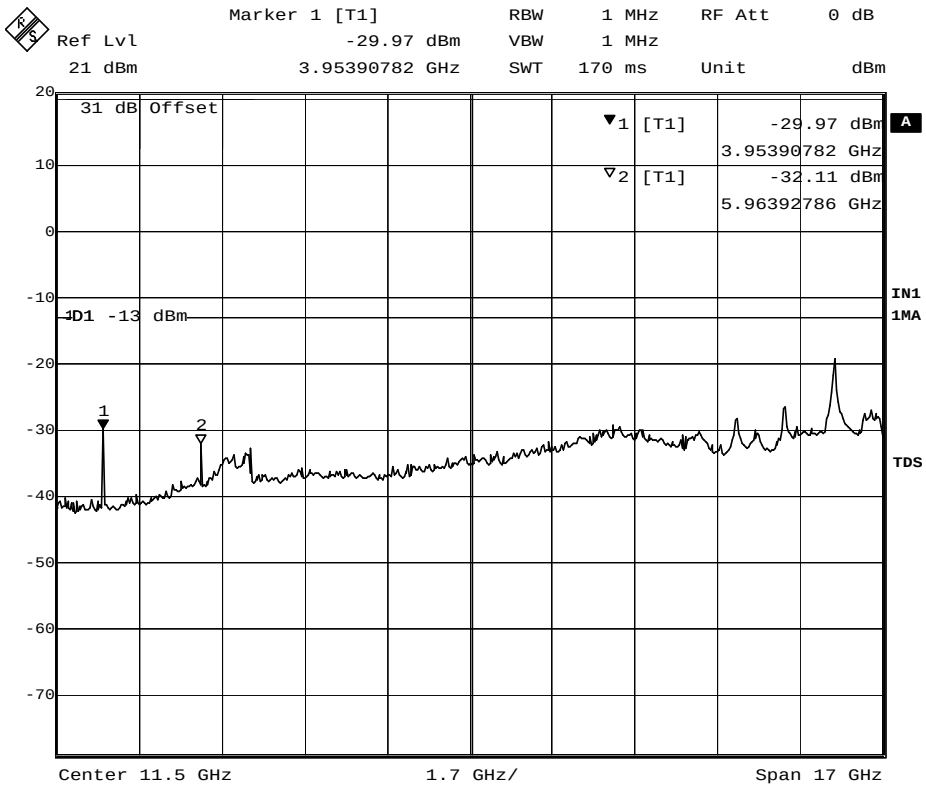
3 – 20 GHz

Sign:…..

Ch 810 and Ch 785

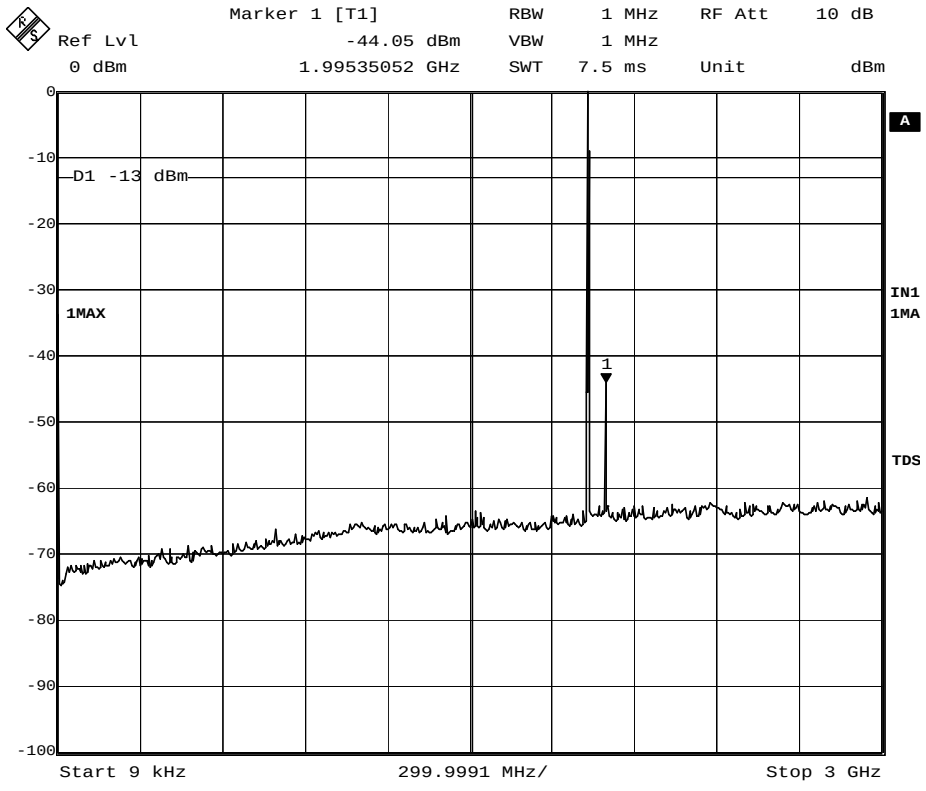


9 k – 3 GHz

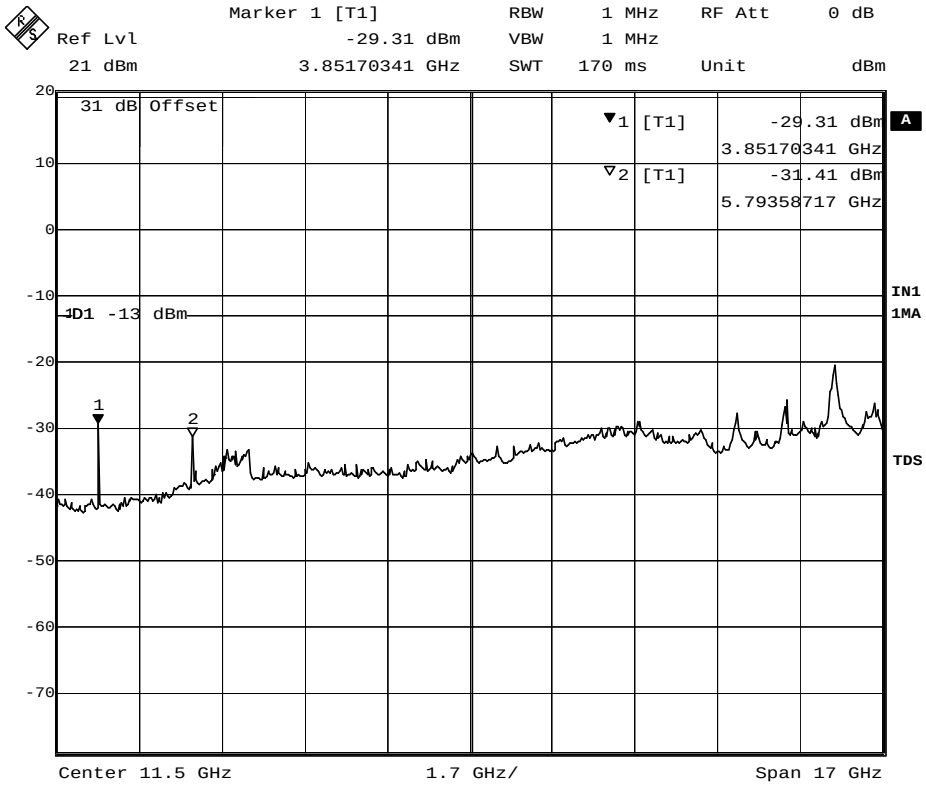


3 – 20 GHz

Ch 512 and Ch 537

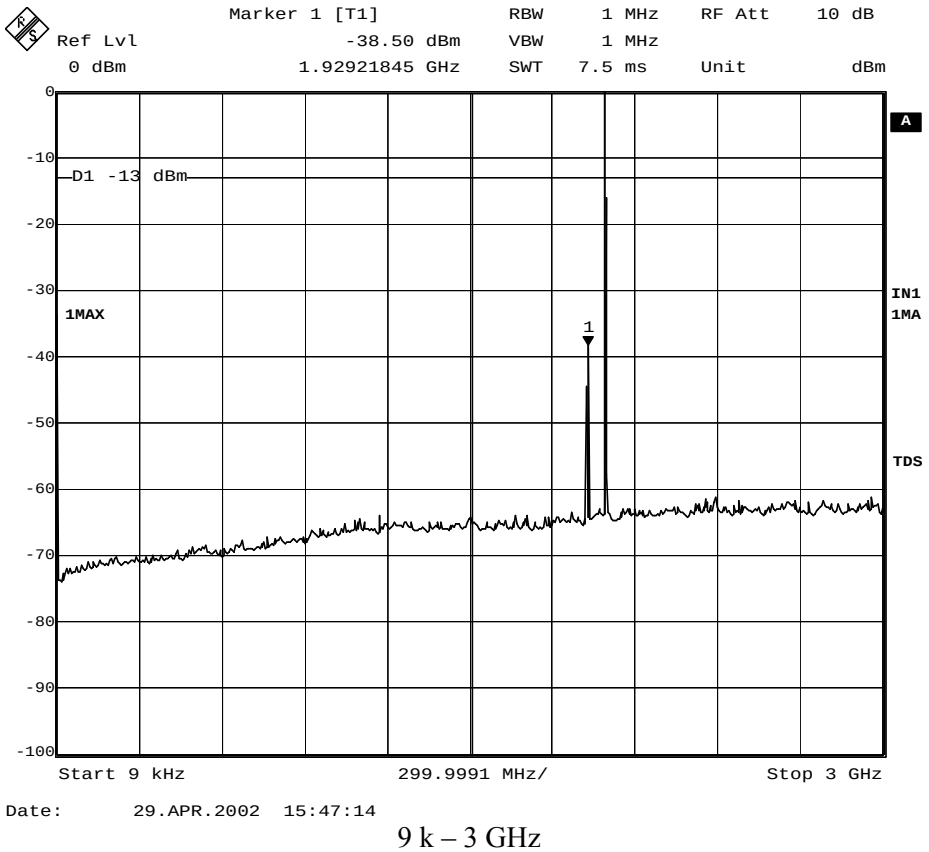


9 k – 3 GHz

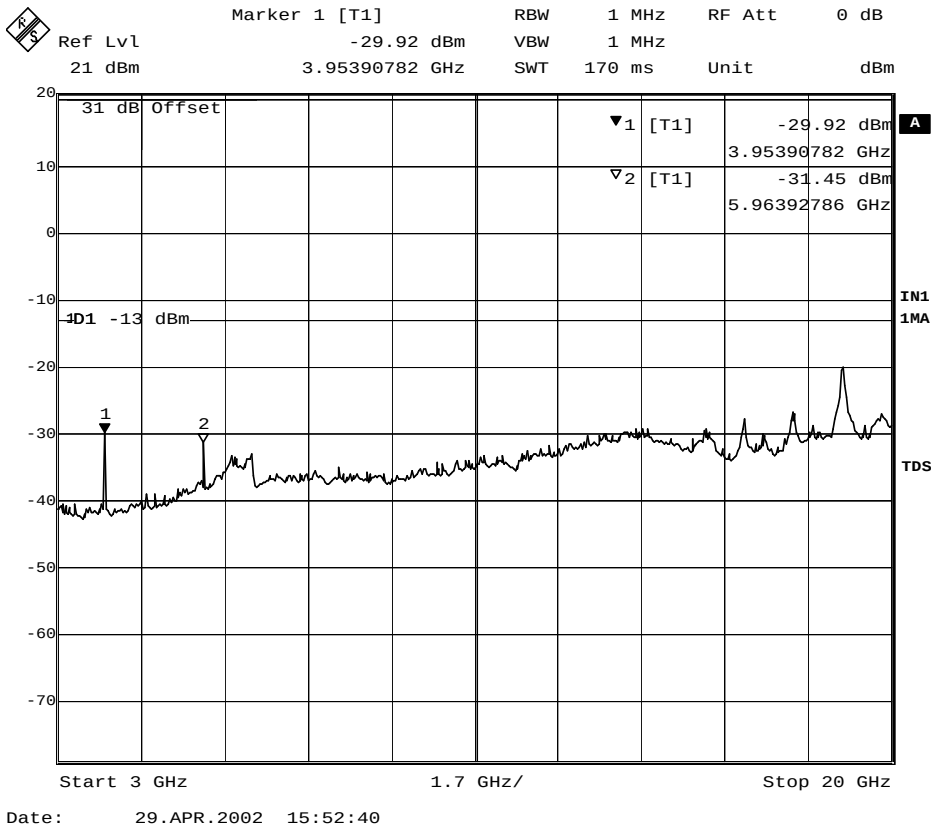


3 – 20 GHz

Ch 810 and Ch 785



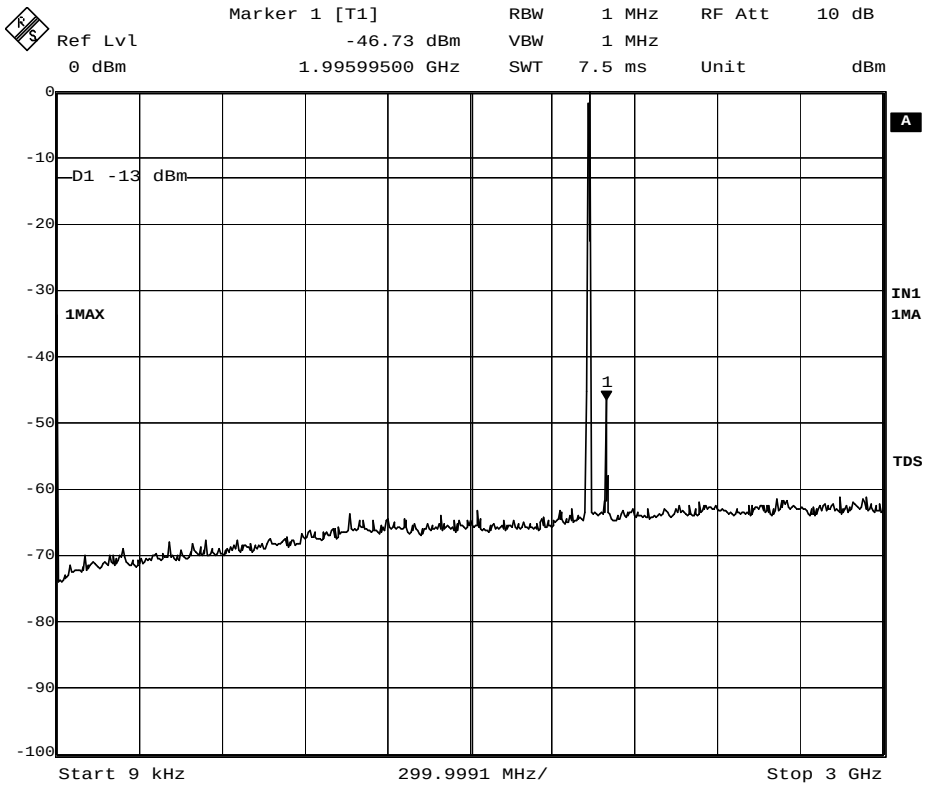
9 k – 3 GHz



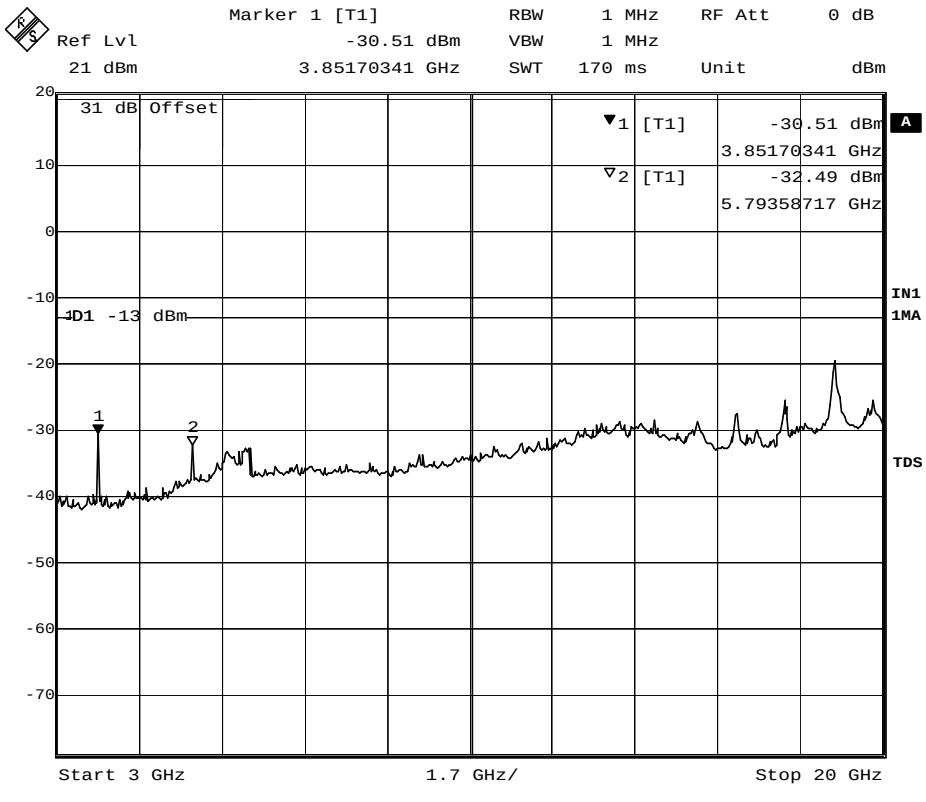
3 – 20 GHz

Sign:…..

Ch 512 and Ch 537



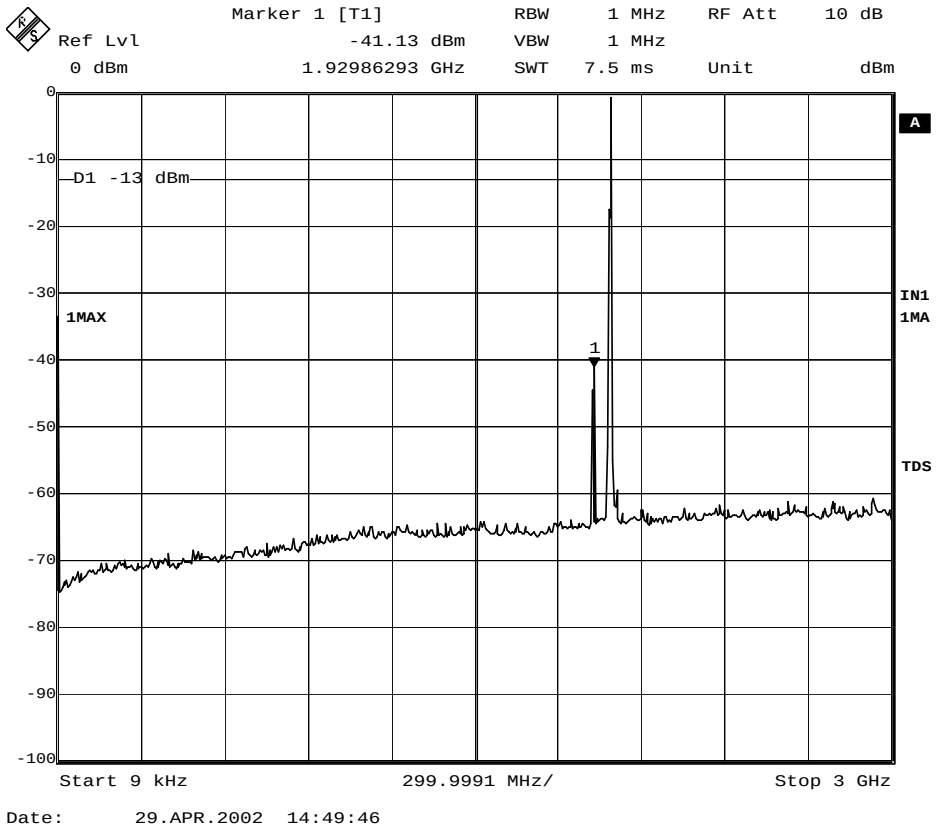
9 k – 3 GHz



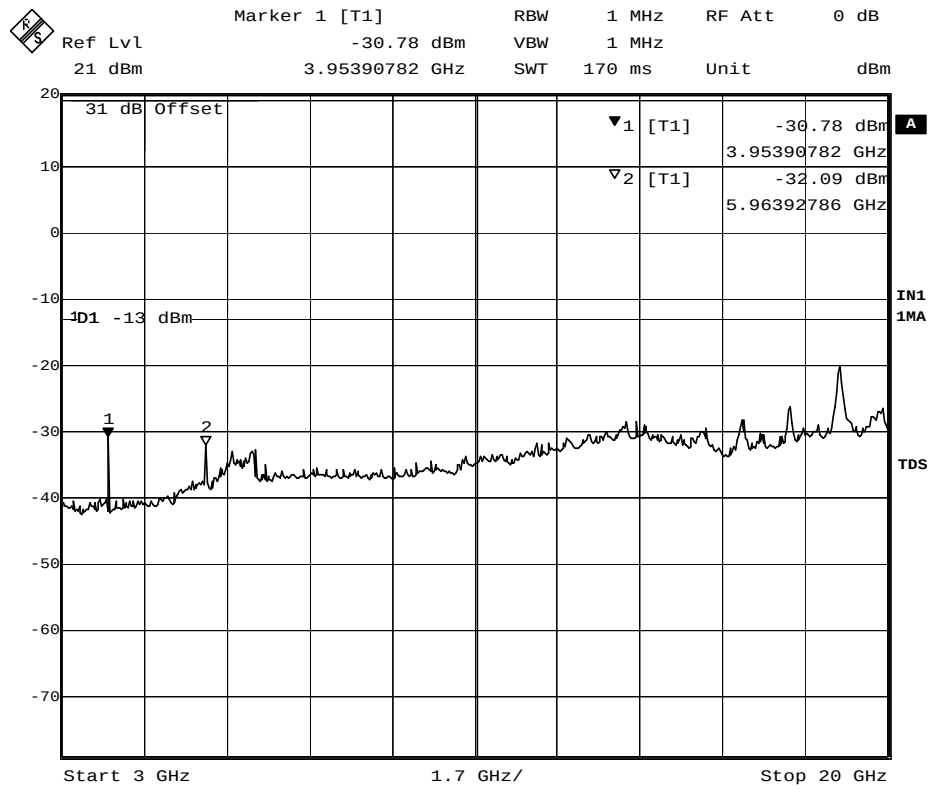
3 – 20 GHz

Sign:…..

Ch 785 and Ch 810

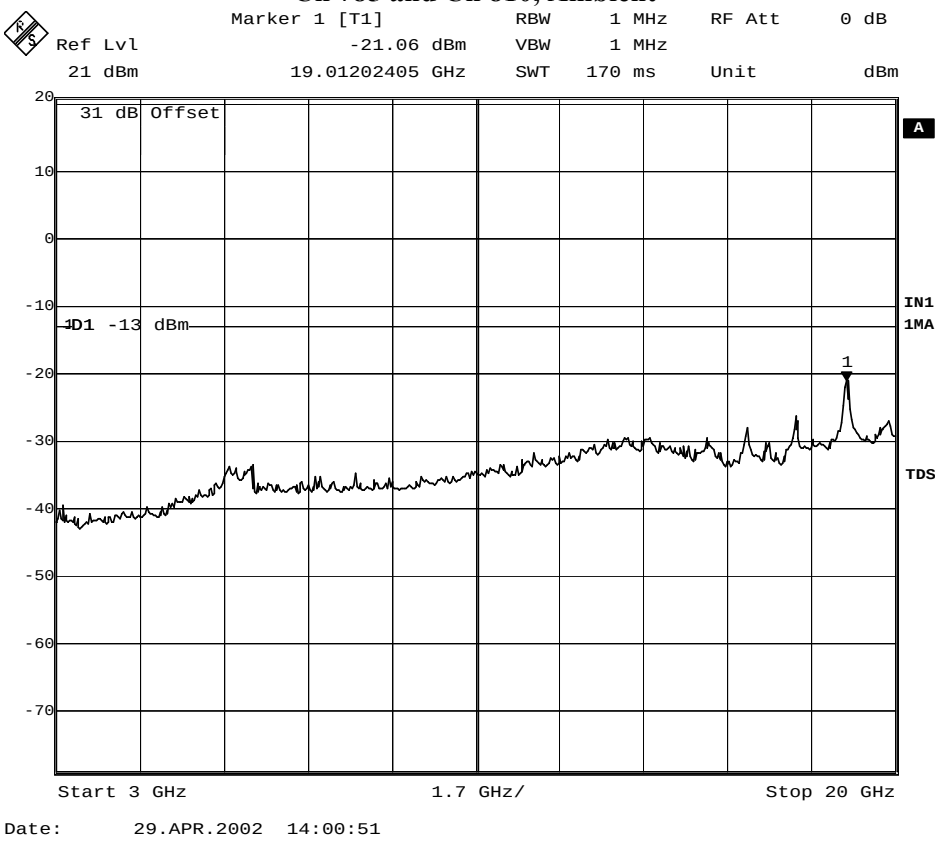


9 k – 3 GHz



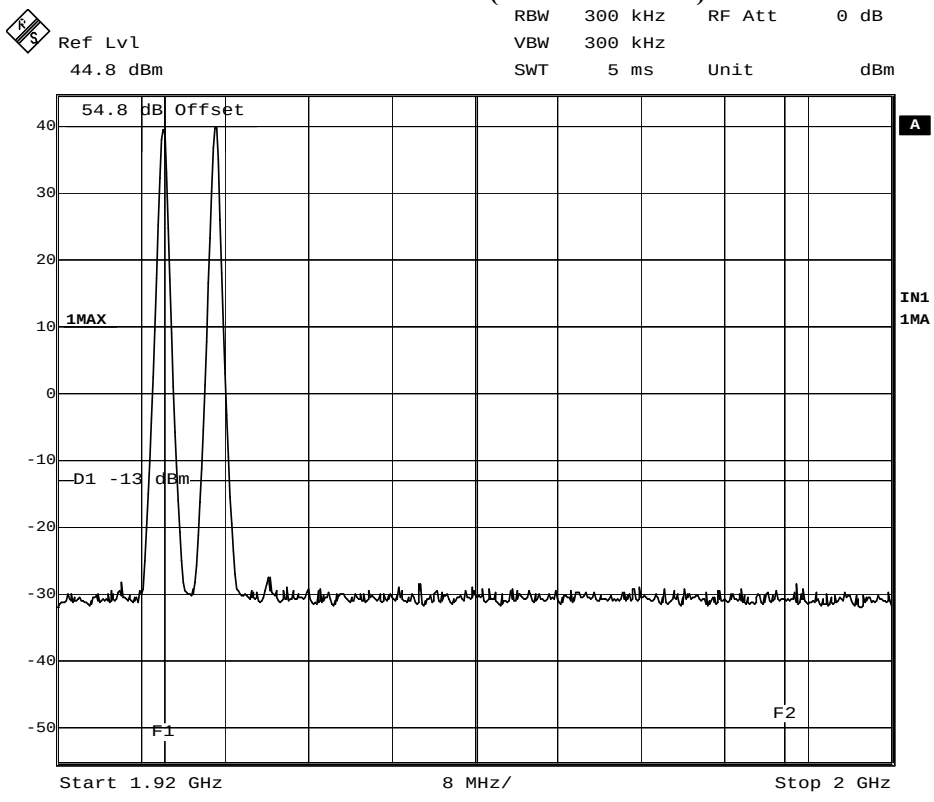
3 – 20 GHz

Ch 785 and Ch 810, Ambient

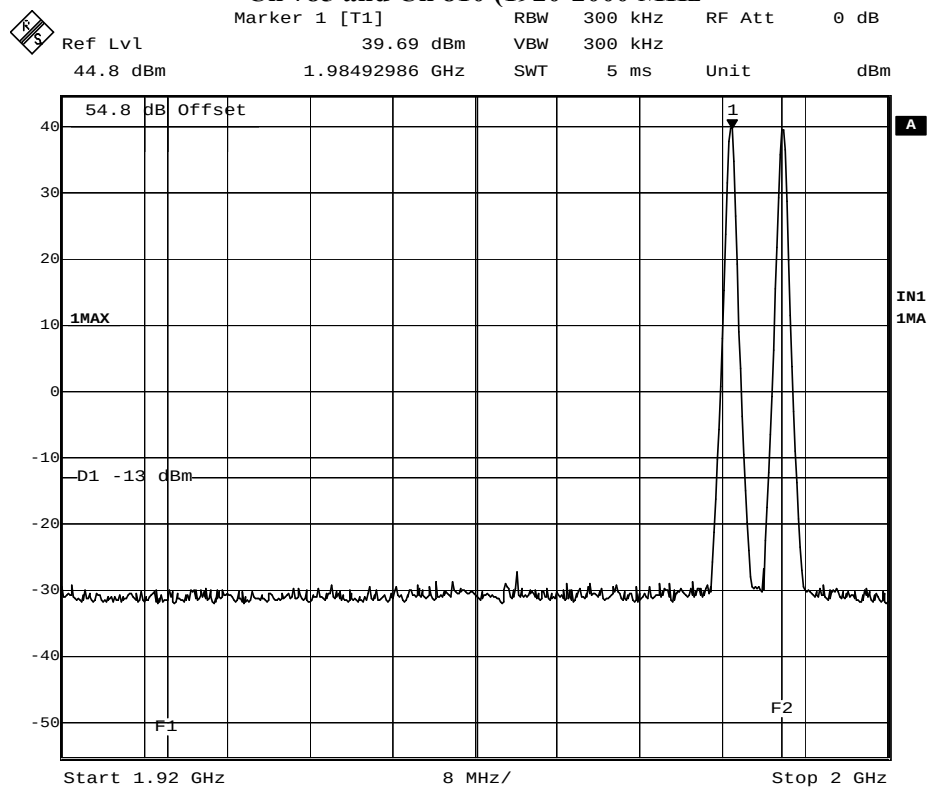


3 – 20 GHz

Ch 512 and Ch 537 (1920-2000 MHz)



Ch 785 and Ch 810 (1920-2000 MHz



Sign:…..

EUT Hardware configuration list RBS 2206

Unit	Product Number	Serial Number	Revision
Cabinet	SEB 112 1095/1	S763411270	R3B
Door	SXK 107 8304/1	--	R2A
ACCU-01	BMG 980 07/1	S792046684	R2A
FCU-01	BGM 136 1001/2	A082680694	R2D
DC-filter 01	KFE 101 11 45/1	X181010200	R1A
6 x Bias Injector	KRY 101 1587/1	--	R2B
CDU shelf	BFL 119 406/1	--	R3A
CDU-G 19	BFL 119 153/1	A40003FWMS	R4A
CDU-G 19	BFL 119 153/1	A40003FTU3	R4A
CDU-G 19	BFL 119 153/1	A40003FTU7	R4A
CXU-10	KRY 101 1856/1	A40003KE56	R3C
TRU shelf	BFL 119 407/1	--	R3B
dTRU-19	KRC 131 1004/1	AE5000DCFD	R5A
dTRU-19	KRC 131 1004/1	AE5000DCFM	R5A
dTRU-19	KRC 131 1004/1	AE5000DCFC	R5A
dTRU-19	KRC 131 1004/1	AE50004CY36	R5A
dTRU-19	KRC 131 1004/1	AE5000DCQ6	R5A
dTRU-19	KRC 131 1004/1	AE5000DCFJ	R5A
IDM 01	BMG 980 06/1	T671038439	R2B
PSU/ DXU shelf	BFL 119 408/1	--	R2A
PSU-AC	BML 231 202/1	A082981208	R2F
PSU-AC	BML 231 202/1	A082934186	R2F
PSU-AC	BML 231 202/1	A082981232	R2F
PSU-AC	BML 231 202/1	A082981234	R2F
DXU-21	BOE 602 14/1	A101747371	R4G
TMA-CM-01	SDK 107 881/1	SA22342743	R1B
Dummy	SXK 107 5029/1	--	R1B
Dummy	SXK 107 5030/1	--	R1B
Dummy	SXK 107 5030/1	--	R1B

Software	Revision
LZY 213 1162/1	R4

EUT Hardware configuration list RBS 2106

Unit	Product Number	Serial Number	Revision
Cabinet 2106	SEB 112 1135/04	S77TOR3344	R2B
6 x Bias Injector	KRY 101 1587/1	- -	R2B
CDU shelf	BFL 119 406/1	- -	R3A
CDU-G 19	BFL 119 153/1	A40003PZNV	R5A
CDU-G 19	BFL 119 153/1	A40003PX3V	R5A
CDU-G 19	BFL 119 153/1	A40003PZNZ	R5A
ASU-01	KRY 112 54/1	A40003NEJ4	R2B
CXU-10	KRY 101 1856/1	A40003P282	R3C
Dummy	SXK 107 5031/1	- -	R1B
Dummy	SXK 107 5031/1	- -	R1B
TRU shelf	BFL 119 407/1	- -	R3B
dTRU-19	KRC 131 1004/1	AE5000DCFD	R5A
dTRU-19	KRC 131 1004/1	AE5000DCQ6	R5A
dTRU-19	KRC 131 1004/1	AE5000DCFC	R5A
dTRU-19	KRC 131 1004/1	AE5000CY36	R5A
dTRU-19	KRC 131 1004/1	AE5000DCFJ	R5A
dTRU-19	KRC 131 1004/1	AE5000DCFM	R5A
IDM 01	BMG 980 06/1	T671044914	R2B
PSU-AC	BML 231 202/1	A083081464	R2F
PSU-AC	BML 231 202/1	A083081520	R2F
PSU-AC	BML 231 202/1	A083081479	R2F
PSU-AC	BML 231 202/1	A083081486	R2F
DXU-21	BOE 602 14/1	A101753114	R4G
TMA-CM-01	SDK 107 881/1	SA22345109	R1B
Dummy	SXK 107 5029/1	- -	R1C
Dummy	SXK 107 5029/1	- -	R1C
DXX-02	ZHC 90104/212	A500ZYRA5	R1A
ACCU-02-DU	BMG 980 11/1	A441249333	R2C
DC/DC	BMR 960 011/1	A731294827	R2E
DC/DC	BMR 960 011/1	A731294827	R2E
FCU-01	BMG 136 1001/2	A083179034	R2D
ADM-01	BMG 980 12/1	T671042211	R2A
BFU-21	BMG 980 13/1	A083158468	R2A
ACCU-02-CU	2/BMG 815 073/1	A441249332	R1A
CCU	BPD 104 36/1	5781121329	R6A

Software	Revision
LZY 213 1162/1	R4

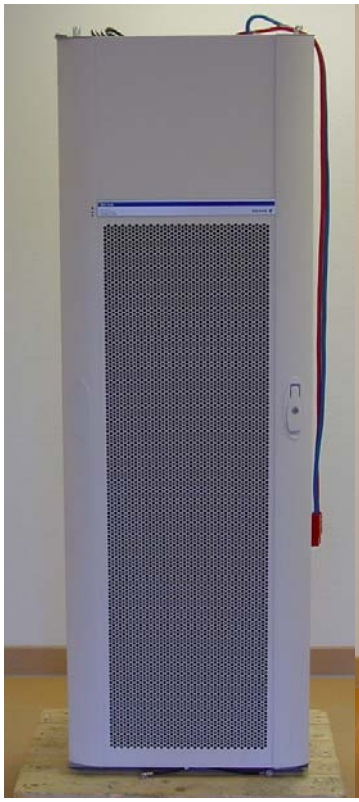
Description of EUT

The EUT is a dTRU that can be installed in a 1900 MHz GSM Base station configured with up to 6 double transceiver units that are designed to provide mobile telephone users with a connection to a mobile network or the PSTN.

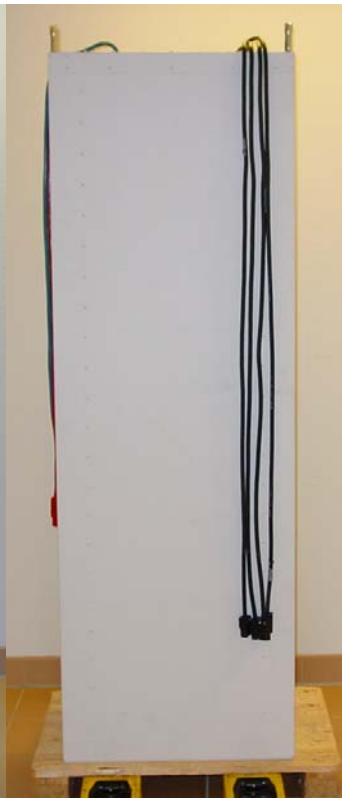
Photos

RBS 2206 Cabinet, 24 Volt DC system

Front view



Rear view

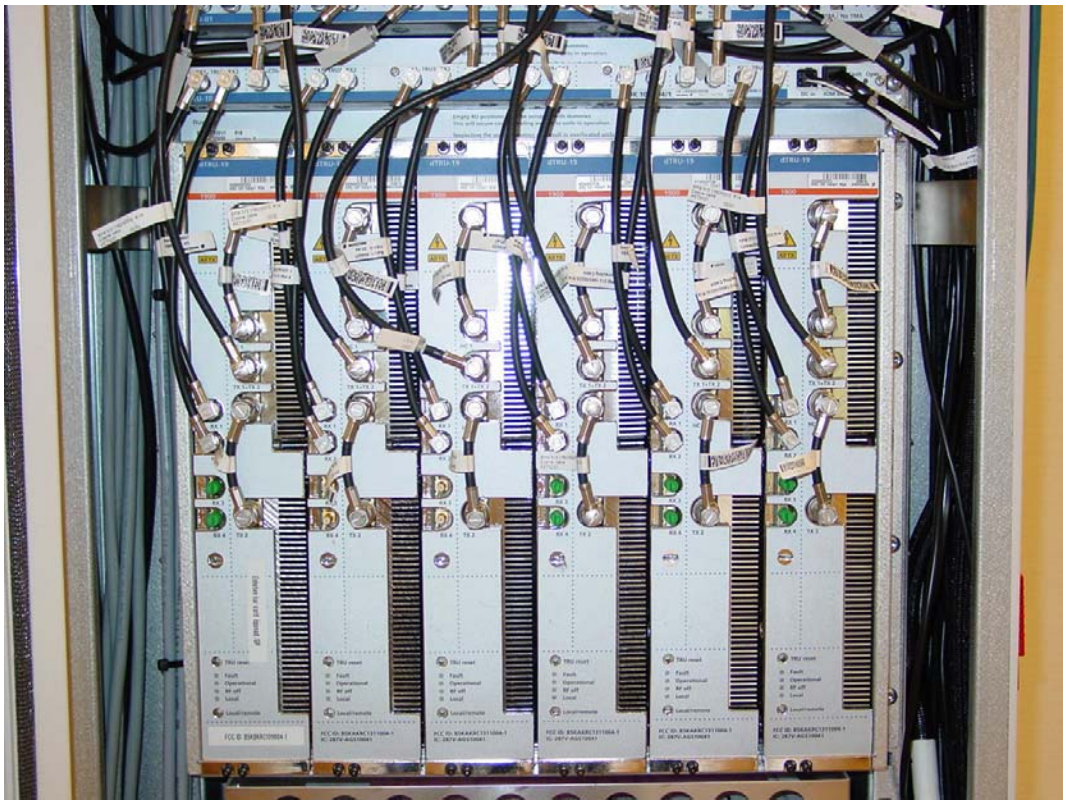


Open door view

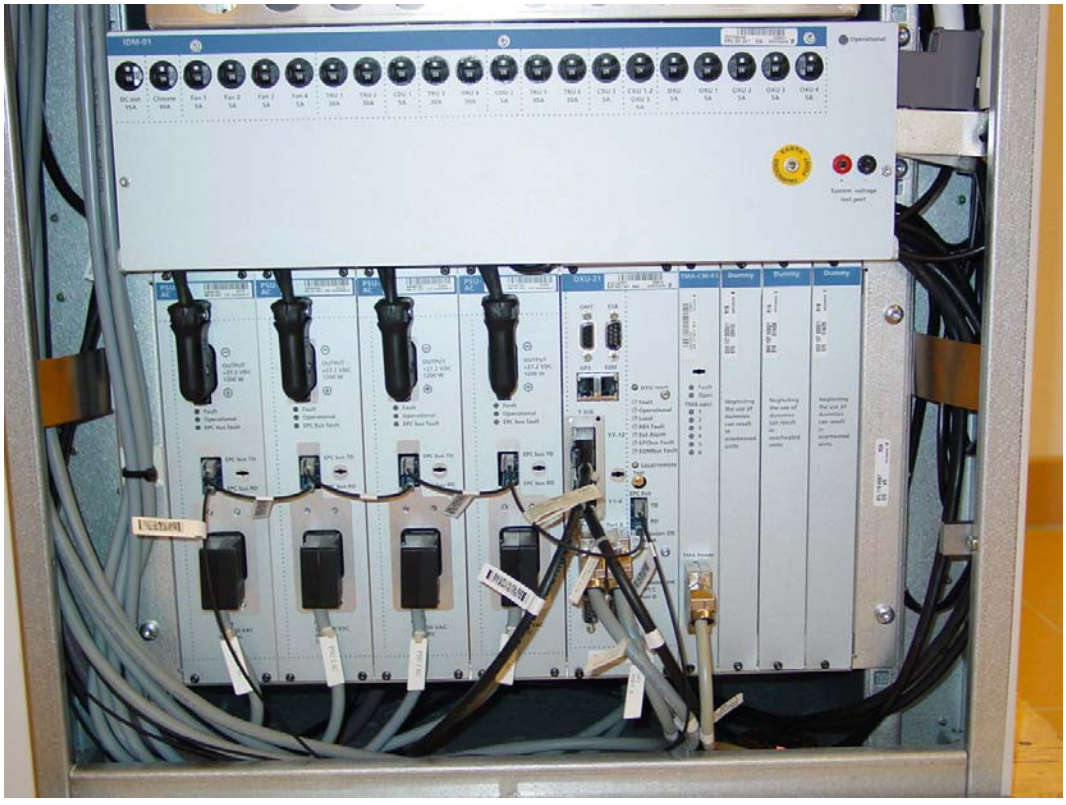
Top shelf view

Upper middle shelf view

Lower middle shelf view



Bottom shelf view



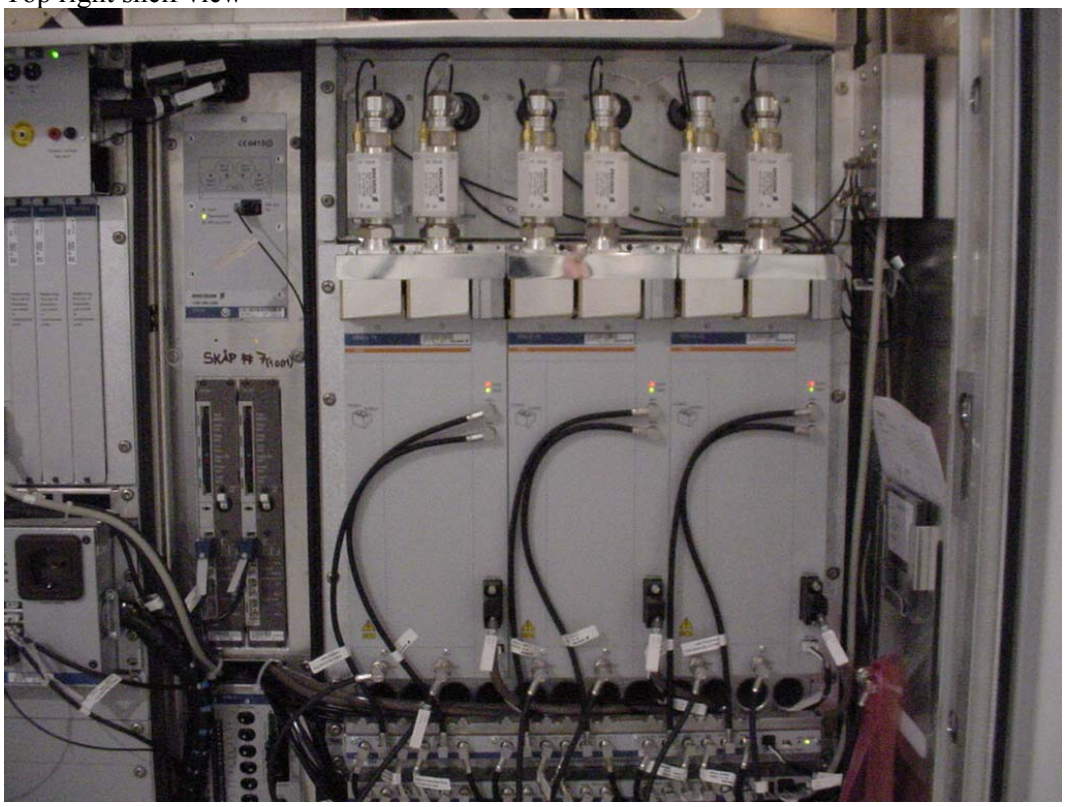
RBS 2106 Cabinet

Front view

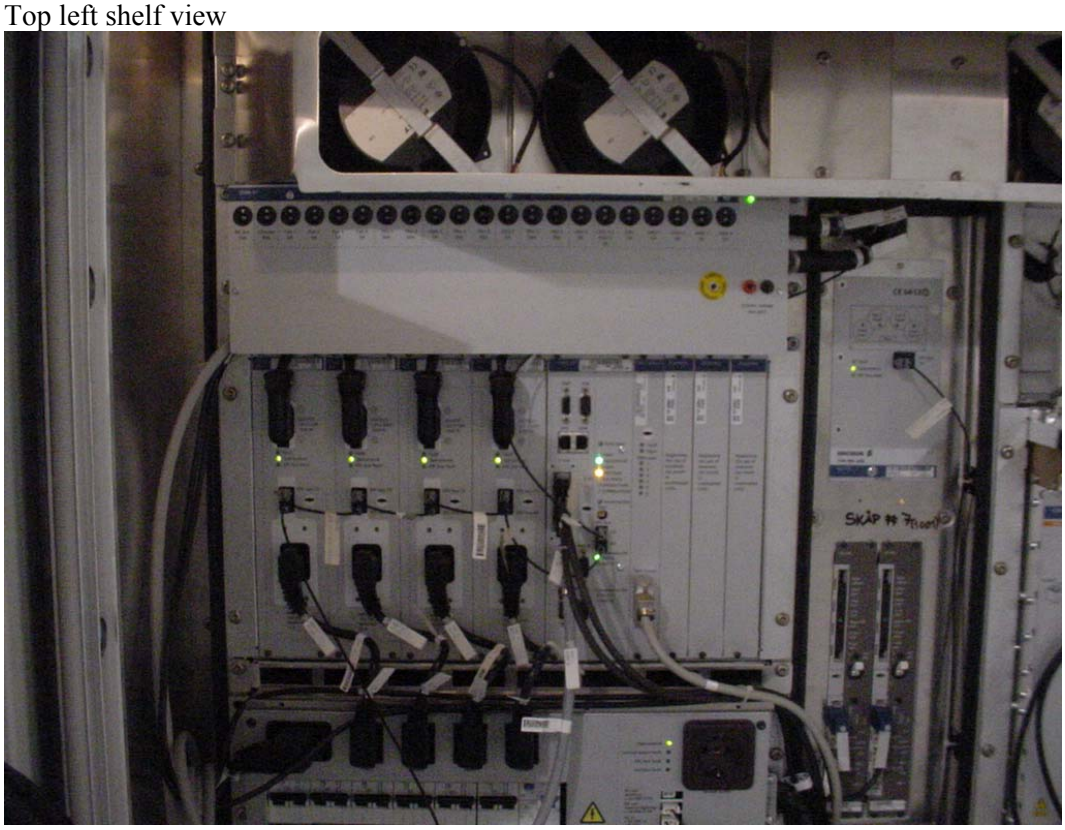
Rear view

Typical RBS 2106 configuration

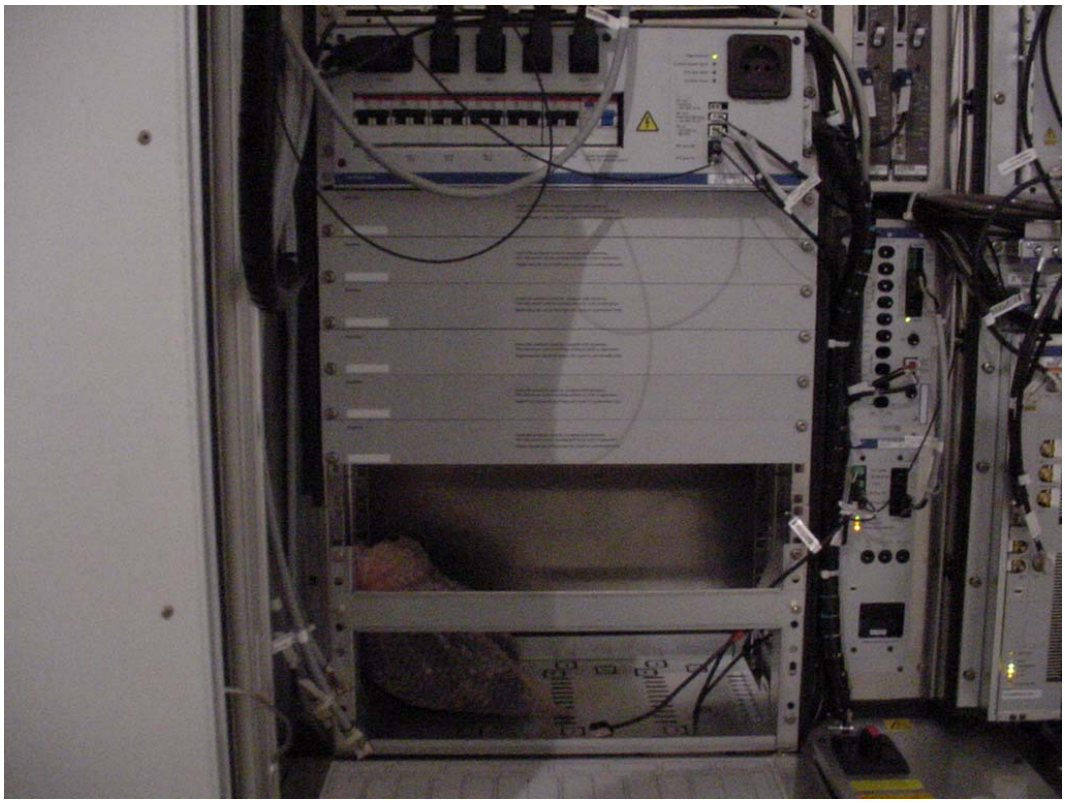
Top right shelf view



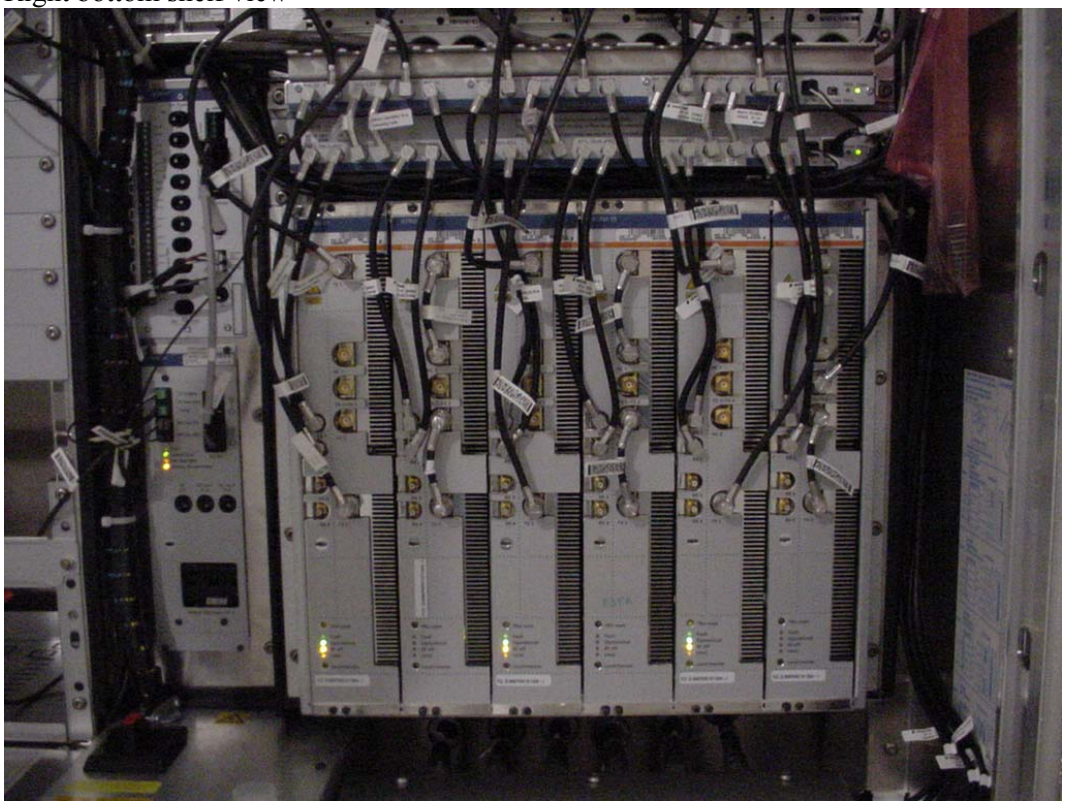
Top left shelf view



Left bottom shelf view



Right bottom shelf view

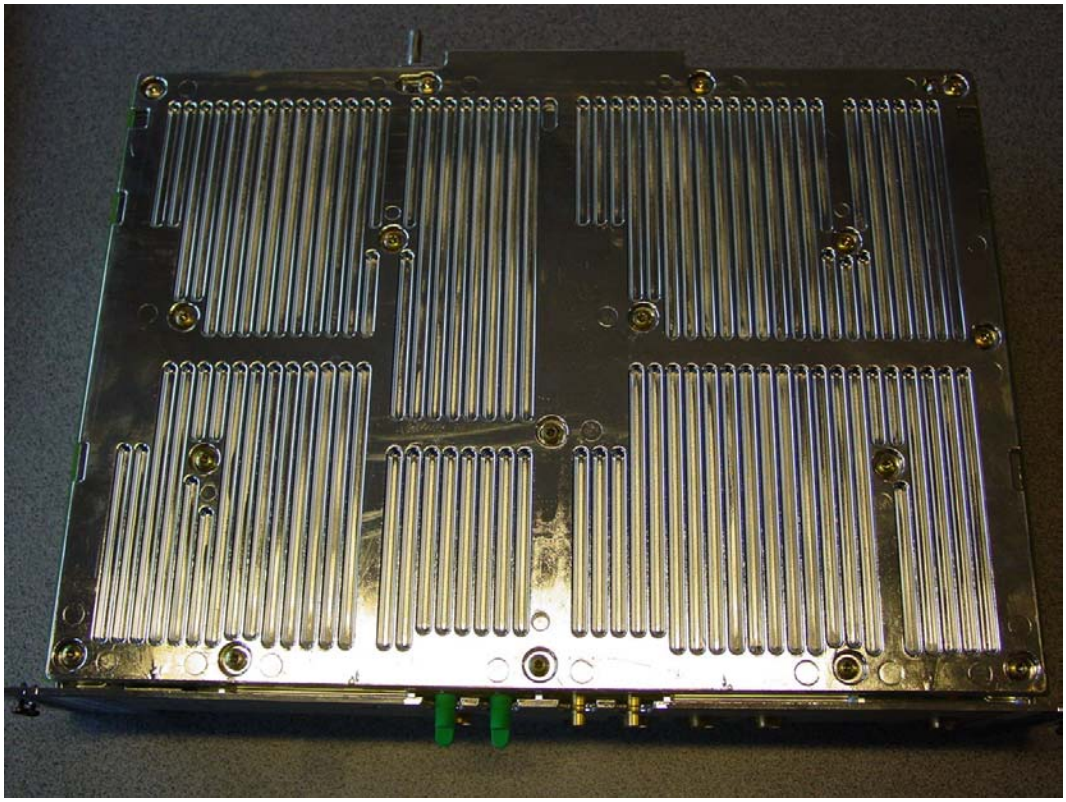


Transceiver Unit KRC 131 1004/1, R5A

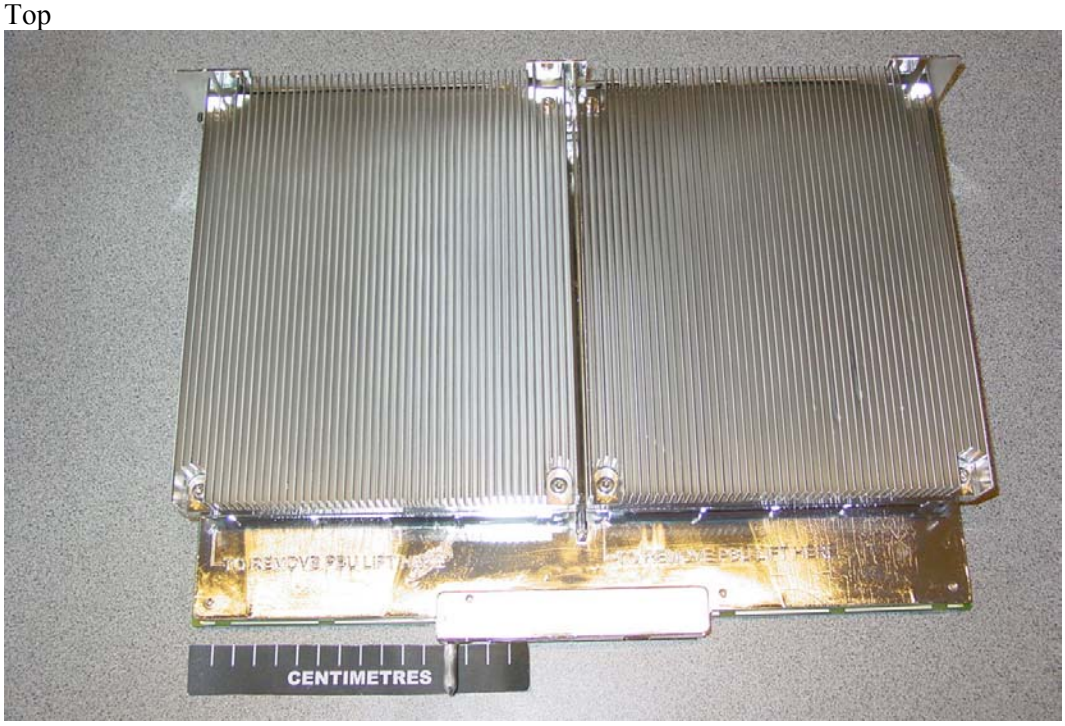
Front side

Rear side

Bottom side



Top

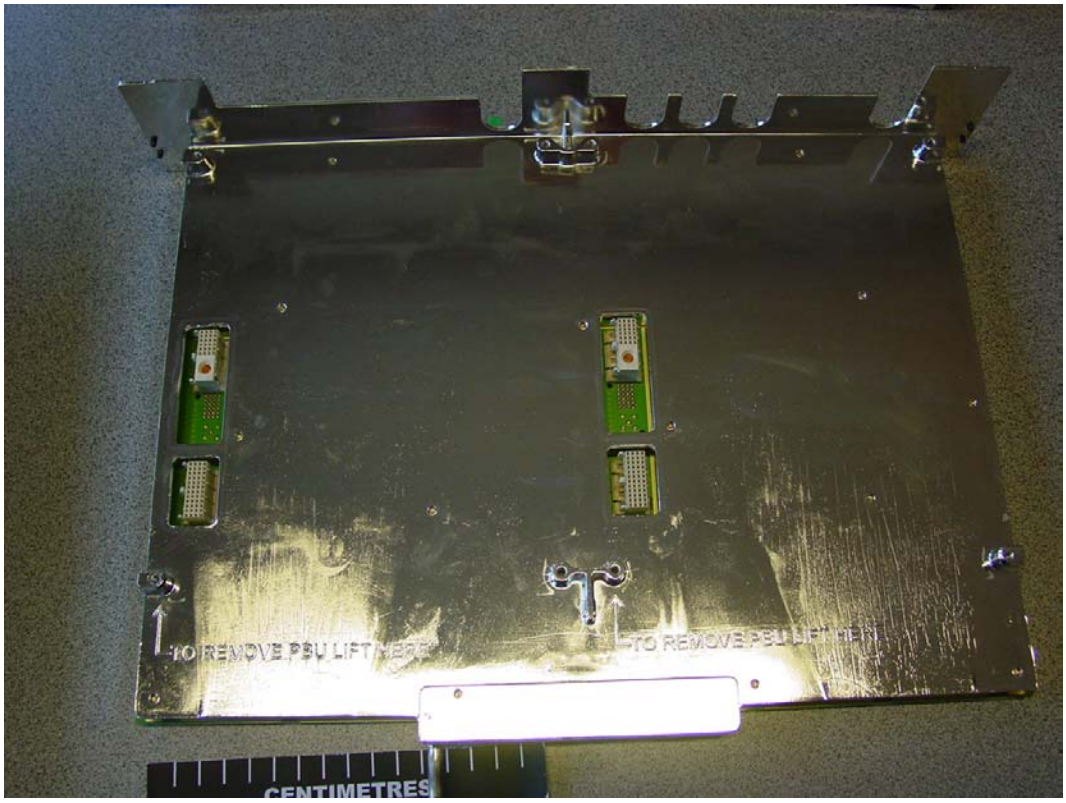

CENTIMETRES

ID Label

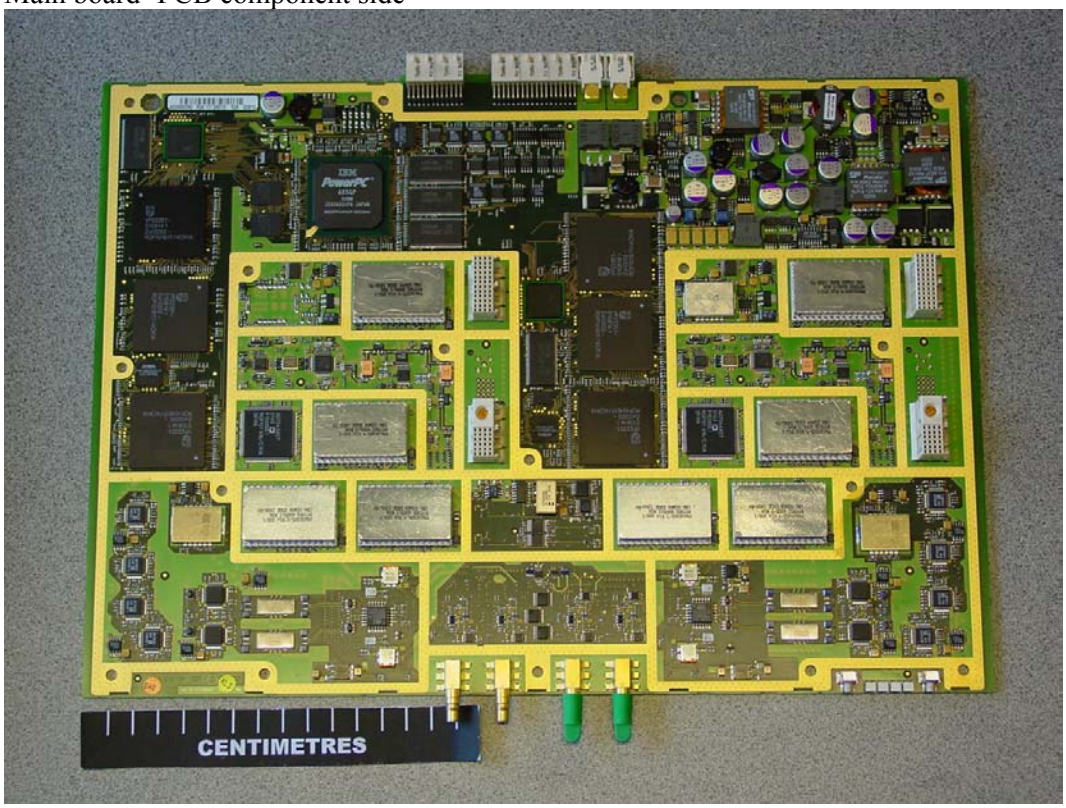

dTRU-19
AE5000DCFD 02W15
KRC 131 1004/1 R5A
ERICSSON
1900

FCC label

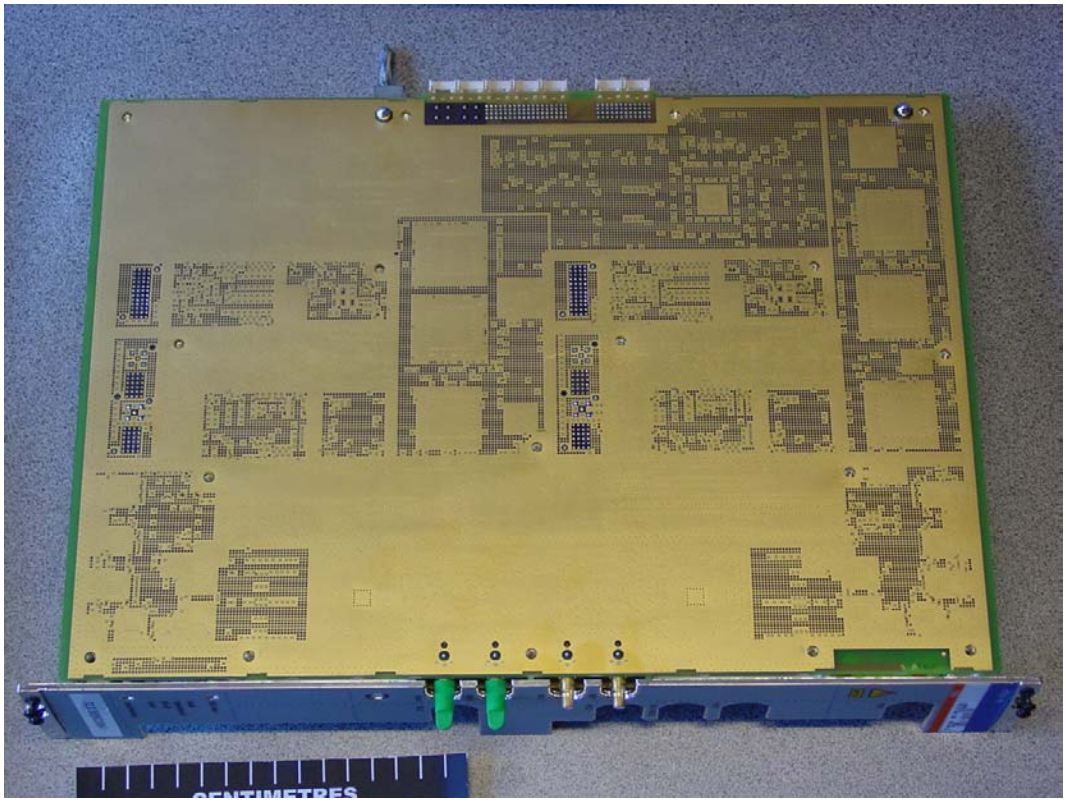
Main board



Main board- PCB component side



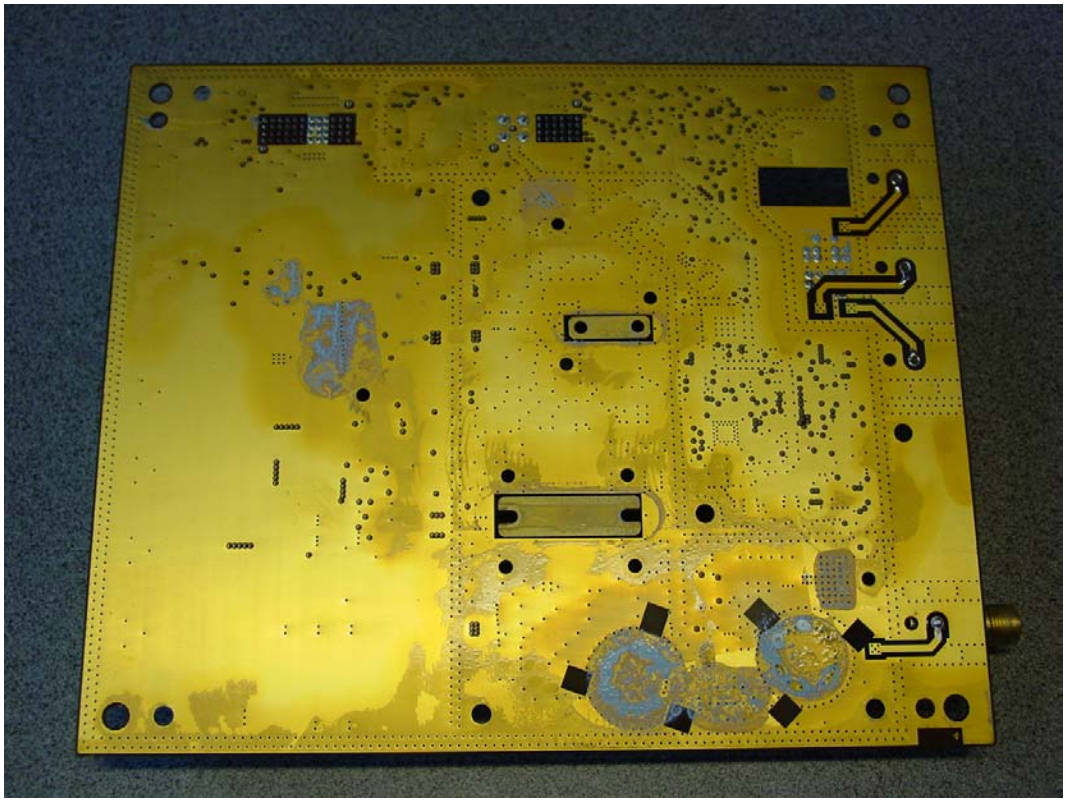
Main board- PCB rear side



Sign:…..

PA1- PCB components side

PA1- PCB rear side



PA2- PCB components side

PA2- PCB rear side