

Appendix 1

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TÜV Rheinland Group

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Test Report No.

14010202 001

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SWEEP TIME

10 s

RBW 3 MHz

Marker 1 [T1]

VBW 10 MHz

-66.75 dBm

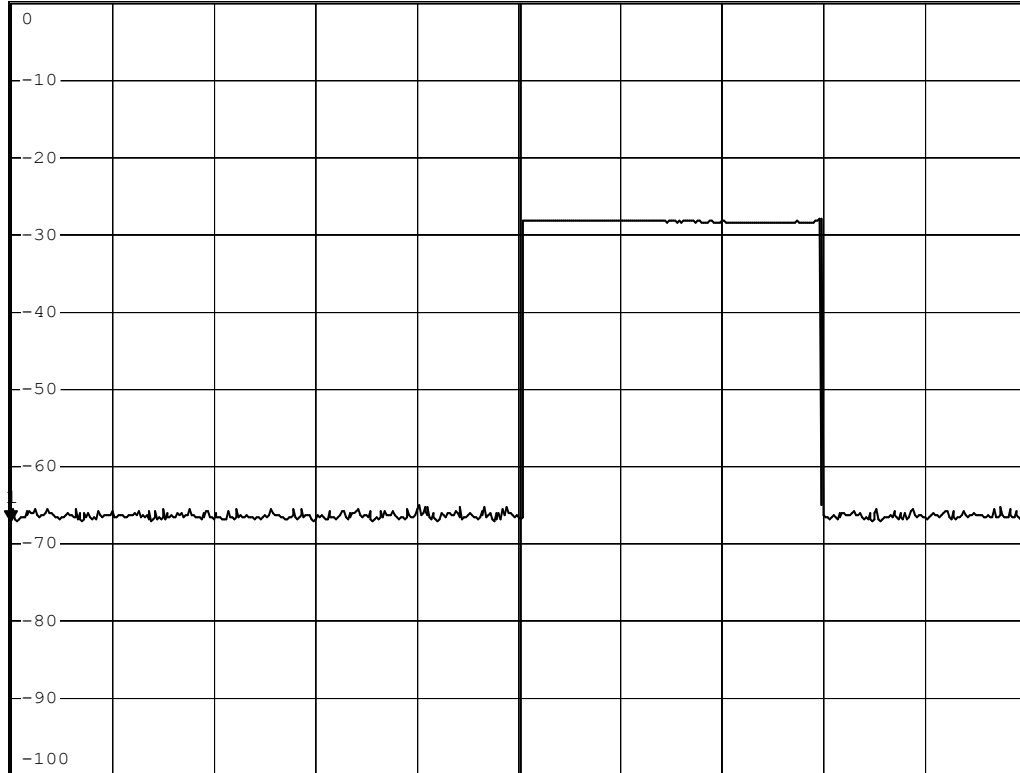
Ref 0 dBm

*Att 10 dB

SWT 10 s

2.500000 ms

1 PK
MAXH



Center 314.514 MHz

1 s/

Date: 4.JUL.2005 11:09:44

The above data graph shows the transmitter performance of the on/off switch. The switch was pressed at the 5th second time and was released at the 8th second time. It shows that the transmitter ceased the transmission immediately after releasing the switch.

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DELTA MARKER 3

18.8 kHz

Ref -10 dBm

*Att 20 dB

*RBW 3 kHz

VBW 10 kHz

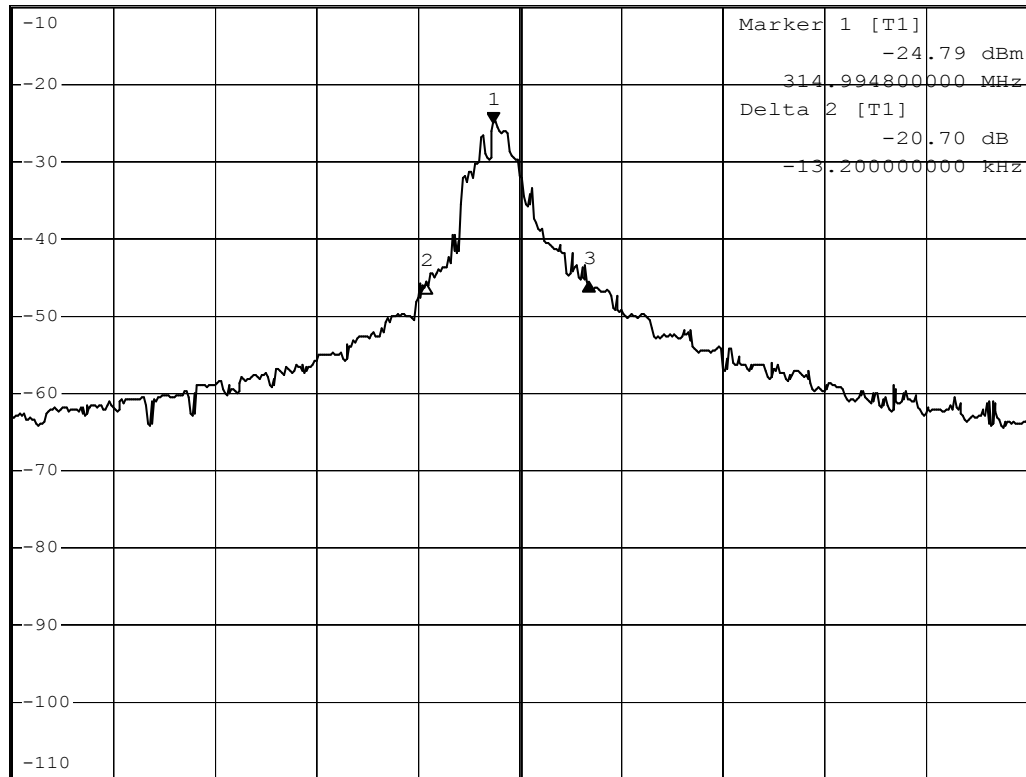
*SWT 100 ms

Delta 3 [T1]

-20.44 dB

18.800000000 kHz

1 PK
MAXH



Center 315 MHz

20 kHz/

Span 200 kHz

Date: 24.MAY.2005 23:06:31

-Bandwidth measurement.

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MARKER 1

10.25 ms

Ref 10 dBm

Att 40 dB

RBW 3 MHz

VBW 10 MHz

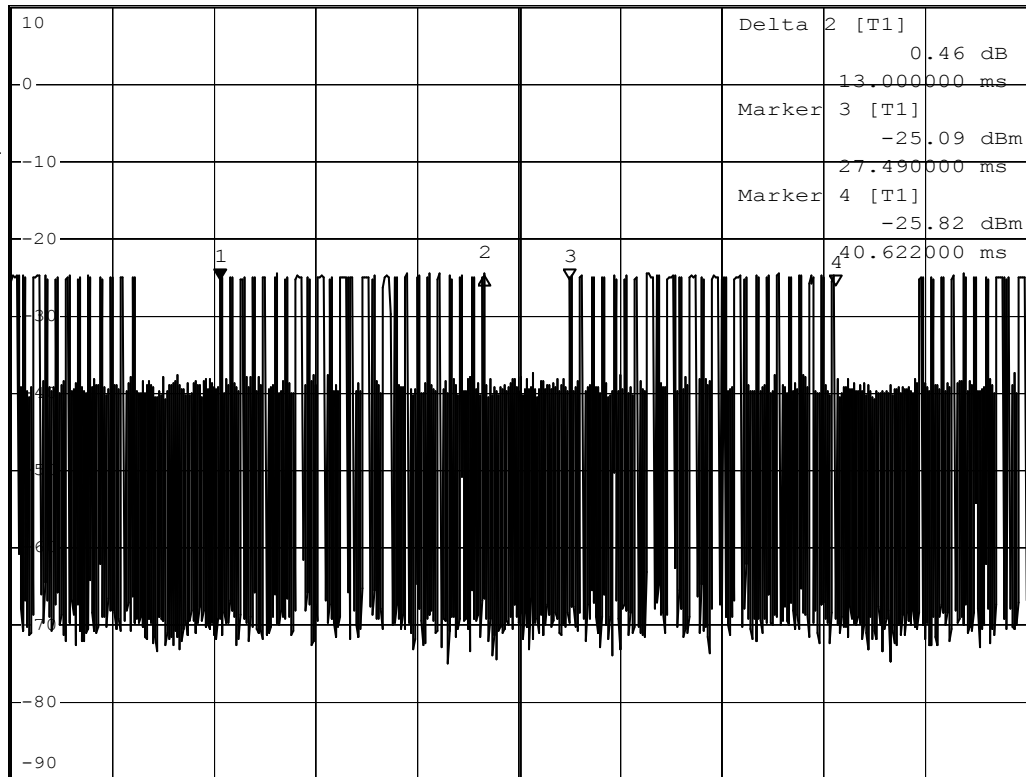
SWT 50 ms

Marker 1 [T1]

-25.00 dBm

10.250000 ms

1 AP
CLRWR



Center 310.46444 MHz

5 ms/

Delta 2 [T1]

0.46 dB

13.000000 ms

Marker 3 [T1]

-25.09 dBm

Marker 4 [T1]

-25.82 dBm

27.490000 ms

40.622000 ms

A

SGL

TRG

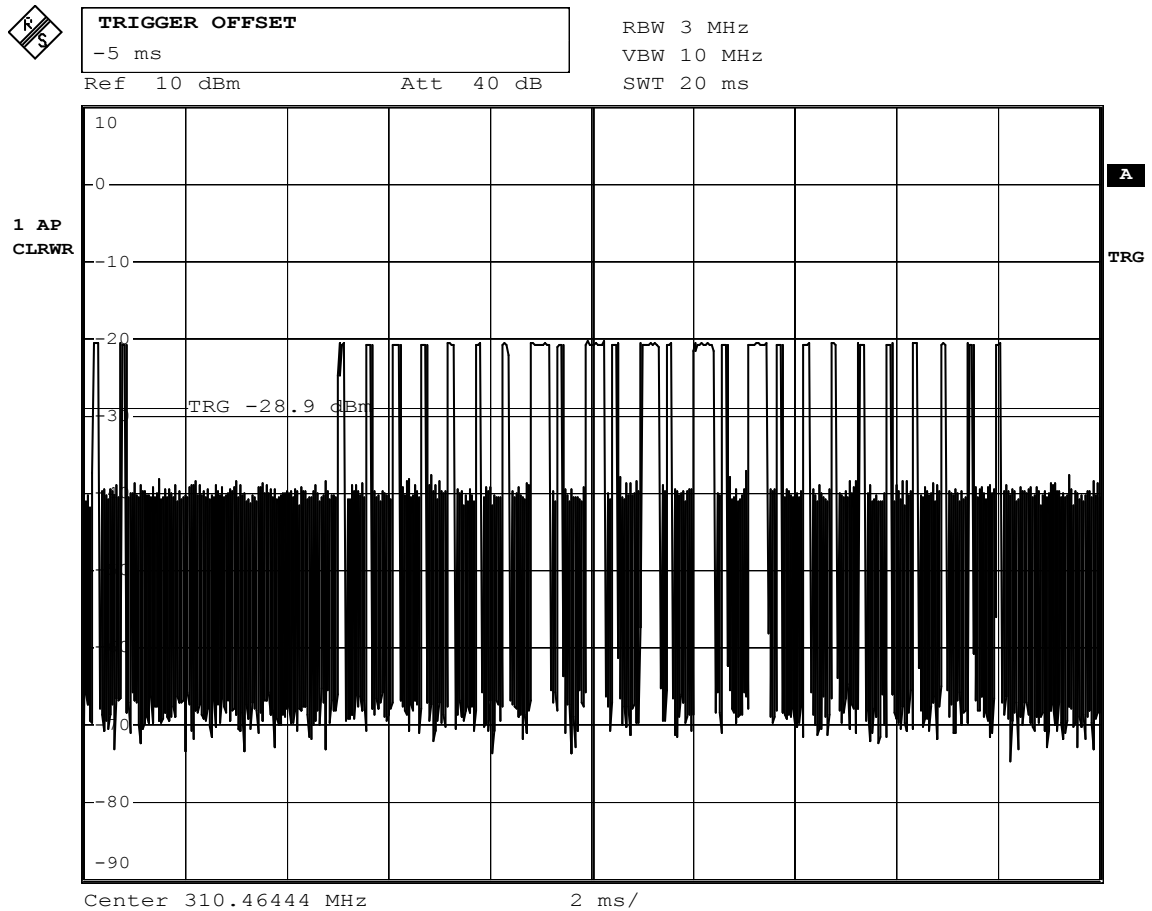
Date: 9.MAY.2005 19:57:33

- The graph shows the pattern of coding during the signal transmission.
- One packet duration time is 13ms.

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Date: 9.MAY.2005 19:51:31
- There are 5 long and 20 short 'on' signal.

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MARKER 1

450 μ s

Ref 10 dBm

Att 40 dB

RBW 3 MHz

VBW 10 MHz

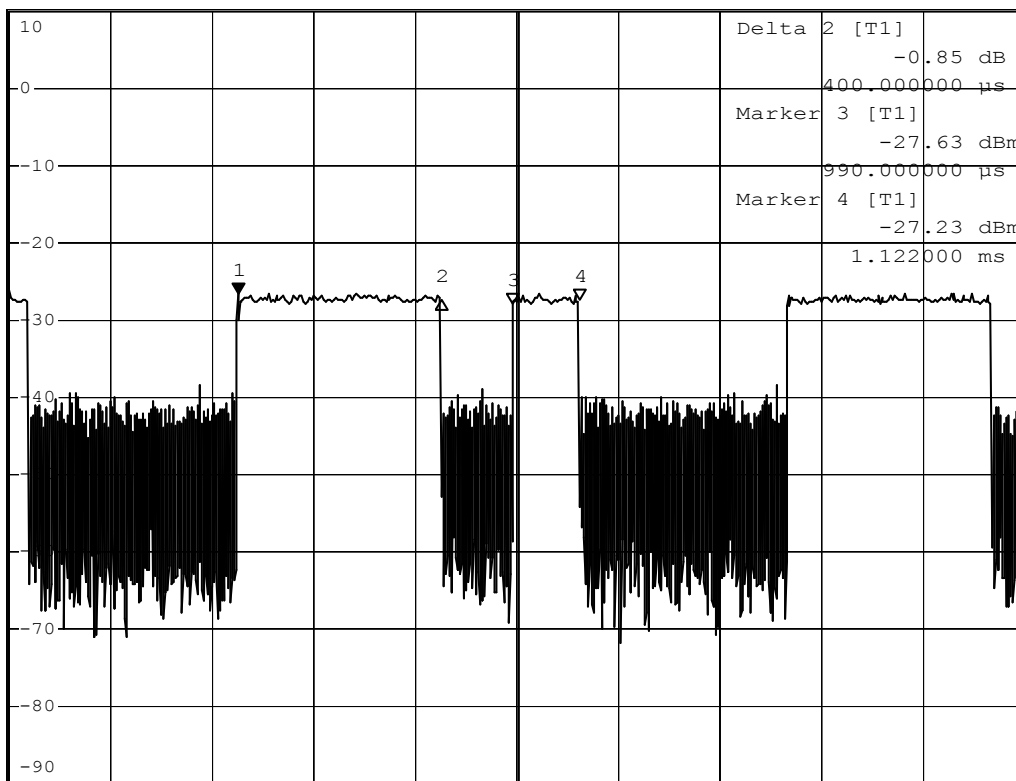
SWT 2 ms

Marker 1 [T1]

-26.40 dBm

450.000000 μ s

1 AP
CLRWR



Center 310.46444 MHz

200 μ s/

Date: 9.MAY.2005 19:55:41

- The graph shows the duration of long 'on' signal, from marker 1 to marker 2 indicates 400 μ s.
- The graph shows the duration of short 'on' signal, from marker 3 to marker 4 indicates 132 μ s.
- Therefore, the total signal 'on' time of one successful period is $(400\mu\text{s} \times 20) + (132\mu\text{s} \times 5) = \underline{\underline{8.66\text{ms}}}$.

Average factor: $20 \log (8.66 / 13.00) = \underline{\underline{-3.53\text{dB}}}$.