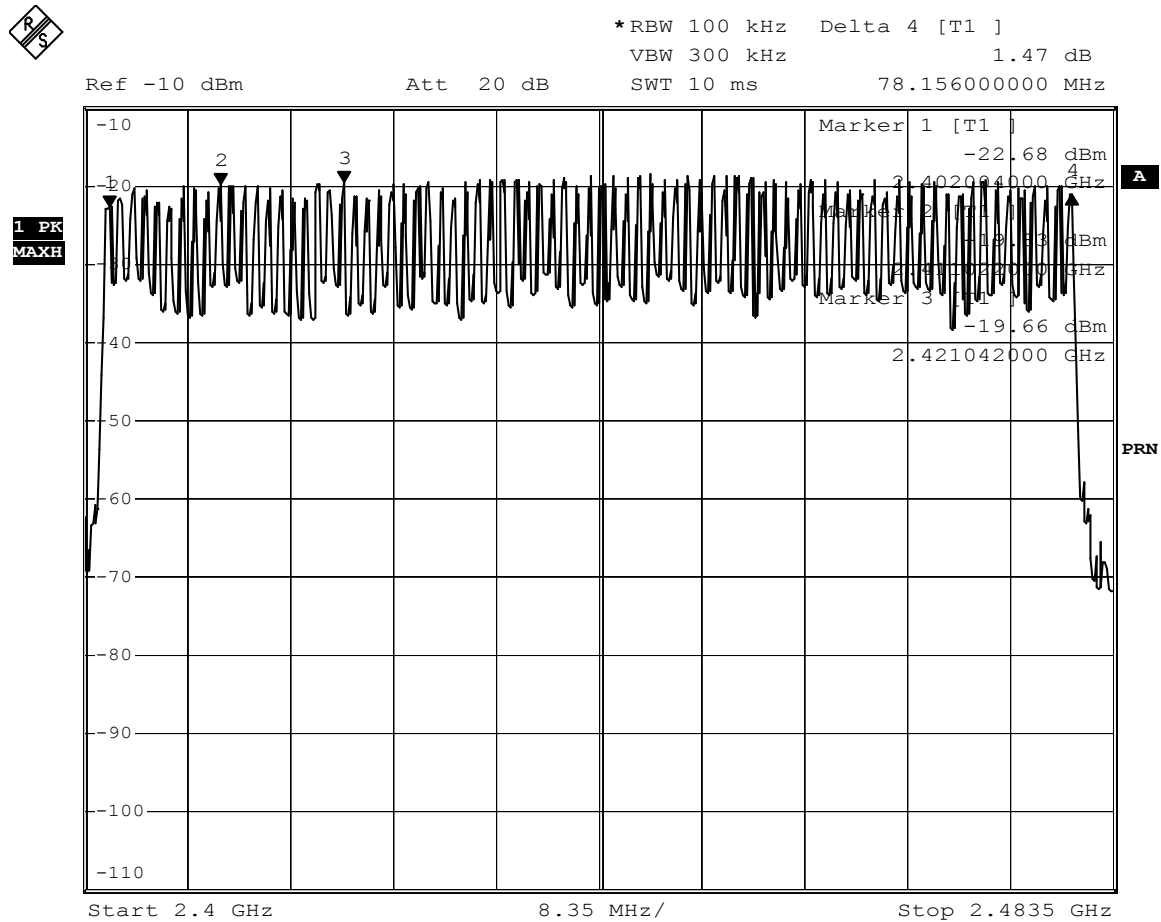


Additional evidence for number of hopping frequencies for data-mode

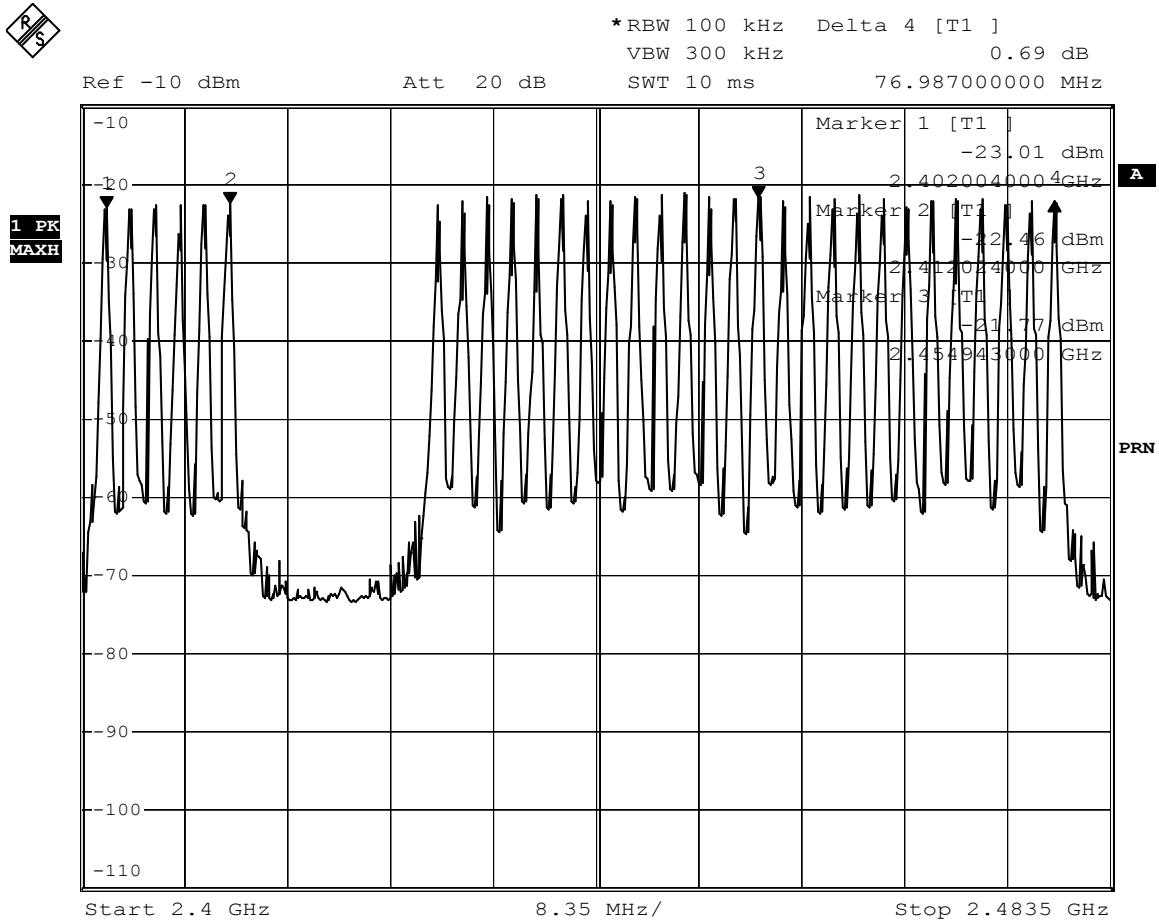


Date: 30.APR.2004 13:04:37

The plot of the spectrum analyzer shows 79 hopping channels in data mode.

- Marker 1 first channel
- Marker 2 tenth channel
- Marker 3 twentieth channel
- Marker 4 last 79th channel

Additional evidence for number of hopping frequencies for inquiry mode

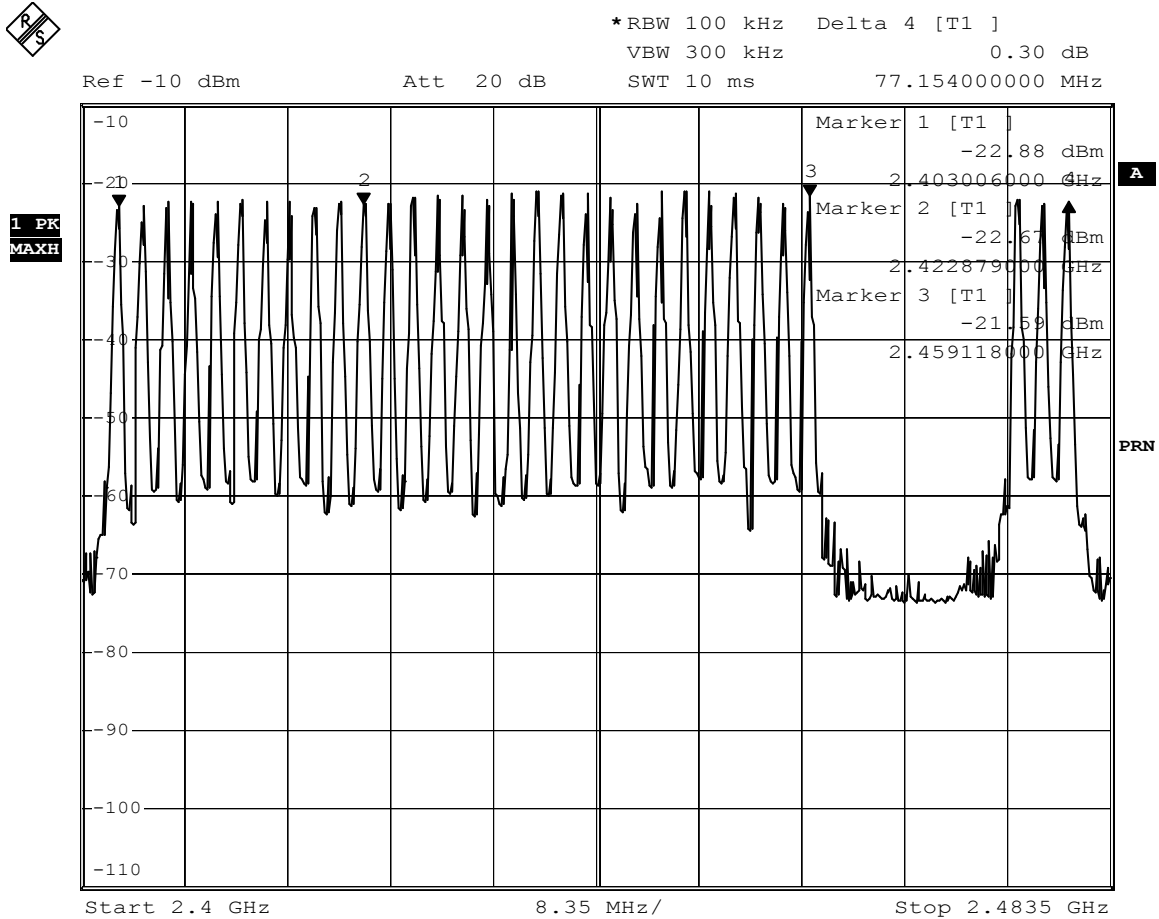


Date: 30.APR.2004 13:22:08

The plot of the spectrum analyzer shows 32 hopping channels in inquiry mode.

Marker 1 first channel
 Marker 2 6'th channel
 Marker 3 20'th channel
 Marker 4 last 32'nd channel

Additional evidence for number of hopping frequencies for page mode



Date: 30.APR.2004 15:31:40

The plot of the spectrum analyzer shows 32 hopping channels in paging mode.

Marker 1 first channel
 Marker 2 11'th channel
 Marker 3 29'th channel
 Marker 4 last 32'nd channel

Additional evidence for time of occupancy (dwell time) in data mode

The limit for the dwell time is 0,4s in a 31,6s period.

The calculation for a 31,6s period is as follows:

Dwell time = time slot length * hop rate / number of hopping channels * 31.6s

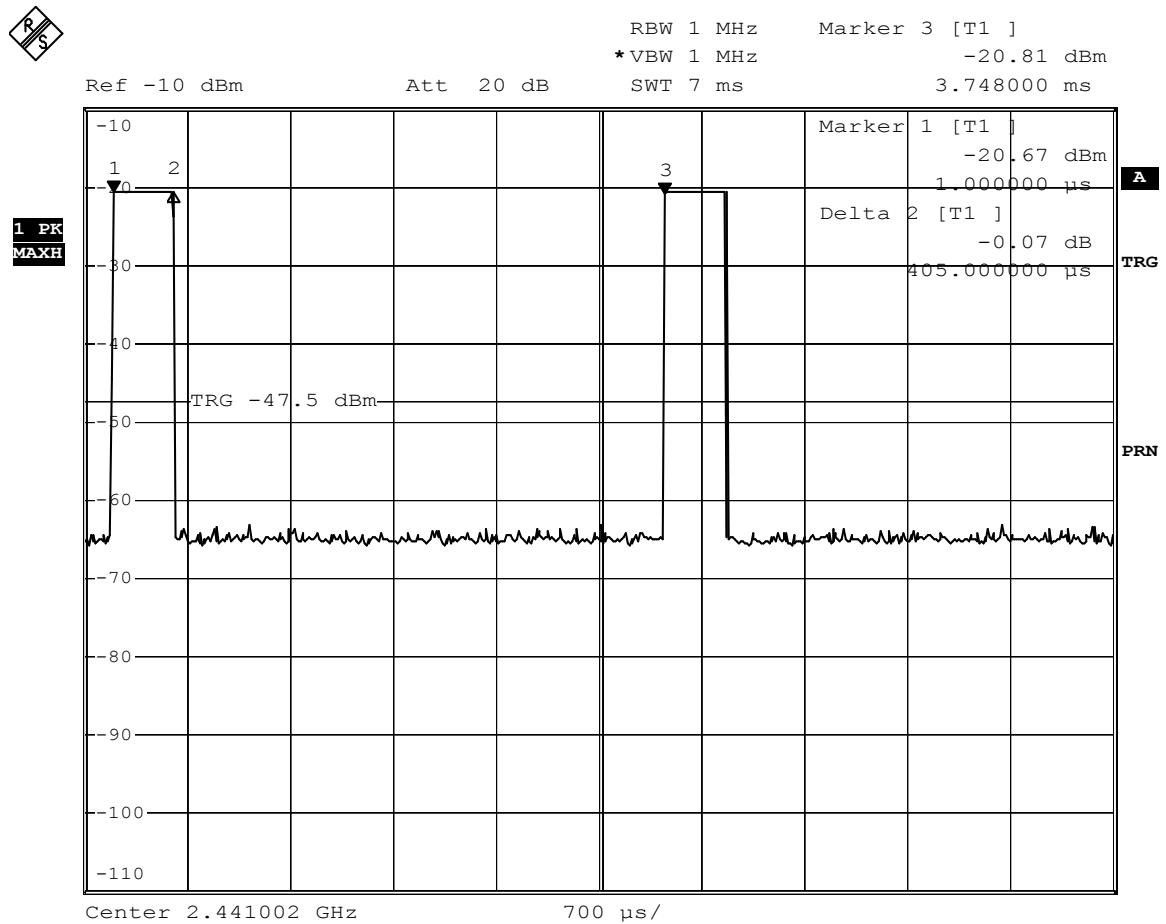
The hop rate for a DH1 packet is 1600 hop/s

The hop rate for a DH3 packet is $1600 \text{ hop/s} * 1/3 = 533,33 \text{ hops/s}$

The hop rate for a DH5 packet is $1600 \text{ hop/s} * 1/5 = 320 \text{ hops/s}$

The following spectrum analyzer plots show the duration of the transmission on one channel for the different packet types.

Dwell time for DH1 packets

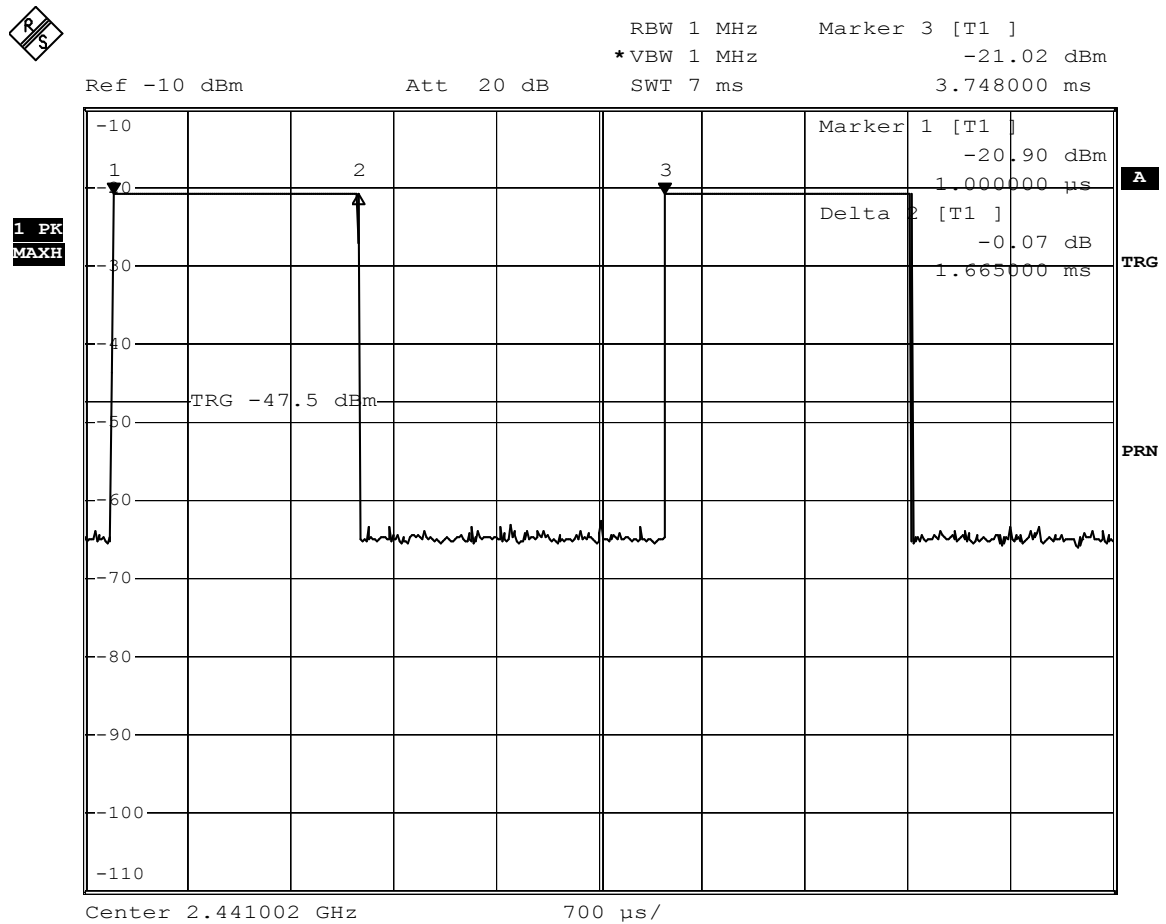


Date: 30.APR.2004 16:55:21

The spectrum analyzer plot shows the length of transmission for DH1 packet = 405 μs on one channel

Dwell time = $405 \mu s * 1600 \text{ 1/s} / 79 * 31.6 s = 0.259 s < 0,4 s$

Dwell time for DH3 packets

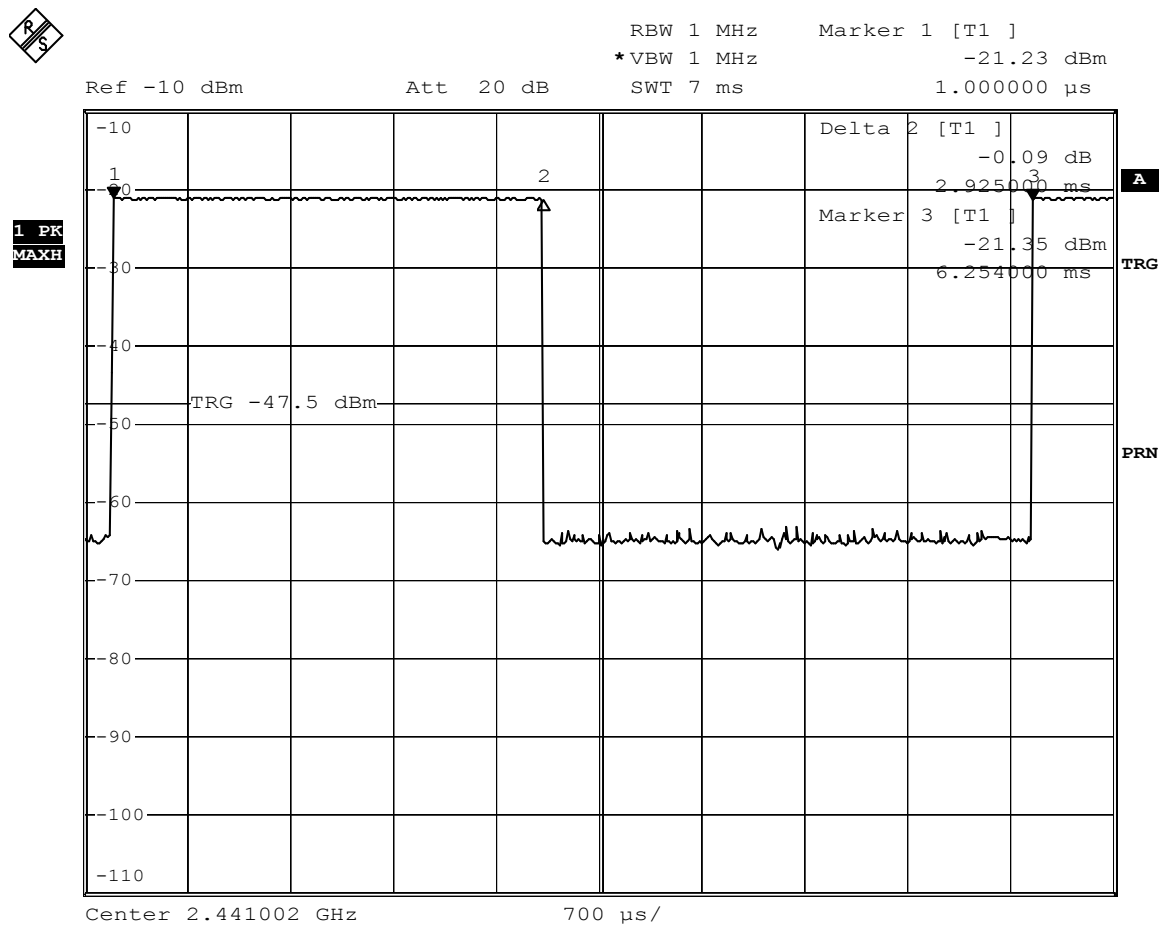


Date: 30.APR.2004 16:54:46

The spectrum analyzer plot shows the length of transmission for DH3 packet = 1.665 ms on one channel

Dwell time = 1.665 ms * 533,33 1/s / 79 * 31.6s = 0.355s < 0,4s

Dwell time for DH5 packets



Date: 30.APR.2004 16:53:48

The picture shows DH5-packets
2.925 ms length of activation on one channel

The spectrum analyzer plot shows the length of transmission for DH5 packet =
2.925 ms on one channel

$$\text{Dwell time} = 2.925 \text{ ms} \times 320 \text{ 1/s} / 79 \times 31.6 \text{ s} = 0.374 \text{ s} < 0.4 \text{ s}$$