

Section 6.2.2 (o)(a3)

Hopping channel carrier frequencies are separated by 891 .87 kHz.

Each bearer is independent and hops at a rate of 1 00 hops/sec.

The hopping sequence is either table-generated or RNG-generated:

1. A table-generated hop sequence is 75 hops long, each channel is used exactly 40 times once in the sequence. Therefore, in a 30 second period each frequency channel is used exactly 40 times in that sequence.
2. An RNG-generated hop sequence is 3000 hops long; each channel is used exactly 40 times in the entire sequence. Therefore, in a 30 second period each frequency channel is used exactly 40 times in that sequence.

The hopping sequence contains 75 logical channels these are mapped-onto 75 physical channels using a mapping table.

The highest channel occupancy is when an FP has 4 traffic bearers (i.e. 8 slots utilized), each using the same hopping sequence. As shown previously, for a given sequence, in a 30 second period each frequency channel is used exactly 40 times. A slot is 1026 usec long, therefore the average time of occupancy on any frequency channel in a 30 second period is:

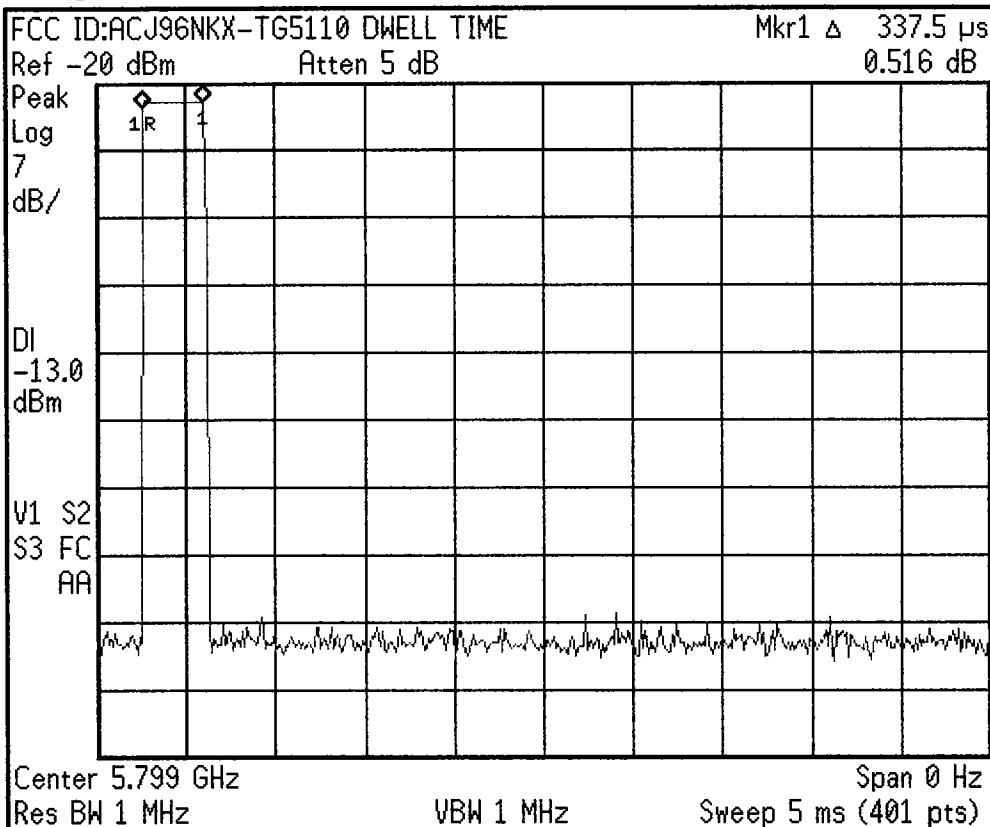
$$T = 1026 \text{ usec} \times 40 \times 8 = 328.3 \text{ msec}$$

As a comparison, the lowest channel occupancy is when only a single dummy bearer is being transmitted. The transmission is 338 usec long, therefore the average time of occupancy on any frequency channel in a 30 second period is:

$$T = 338 \text{ USEC} \times 40 \times 1 = 13.520 \text{ msec}$$

Agilent

L



Freq/Channel

Center Freq
5.79890000 GHz

Start Freq
5.79890000 GHz

Stop Freq
5.79890000 GHz

CF Step
1.00000000 MHz
Auto Man

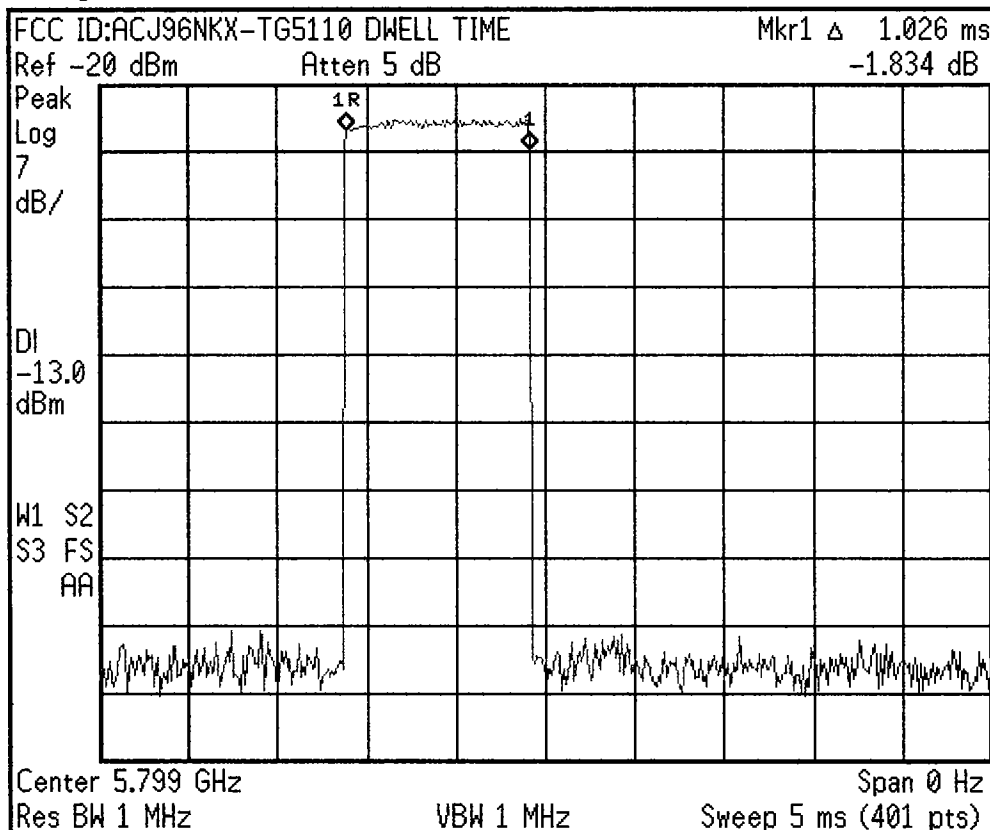
Freq Offset
0.00000000 Hz

Signal Track
On Off

Scale Type
Log Lin

Agilent

L



Freq/Channel

Center Freq
5.79890000 GHz

Start Freq
5.79890000 GHz

Stop Freq
5.79890000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Scale Type
Log Lin

Agilent

L

FCC ID:ACJ96NKX-TG5110 DWELL TIME

Mkr1 Δ 337.5 μ s

Ref -20 dBm

Atten 5 dB

0.516 dB

Peak

Log

7

dB/

DI

-13.0

dBm

V1 S2

S3 FC

AA

Center 5.799 GHz

Res BW 1 MHz

VBW 1 MHz

Span 0 Hz

Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

5.79890000 GHz

Start Freq

5.79890000 GHz

Stop Freq

5.79890000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Scale Type

Log

Lin

Agilent

L

FCC ID:ACJ96NKX-TG5110 DWELL TIME

Mkr1 Δ 1.026 ms

Ref -20 dBm

Atten 5 dB

-1.834 dB

Peak

Log

7

dB/

DI

-13.0

dBm

W1 S2

S3 FS

AA

Center 5.799 GHz

Res BW 1 MHz

VBW 1 MHz

Span 0 Hz

Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

5.79890000 GHz

Start Freq

5.79890000 GHz

Stop Freq

5.79890000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Scale Type

Log

Lin