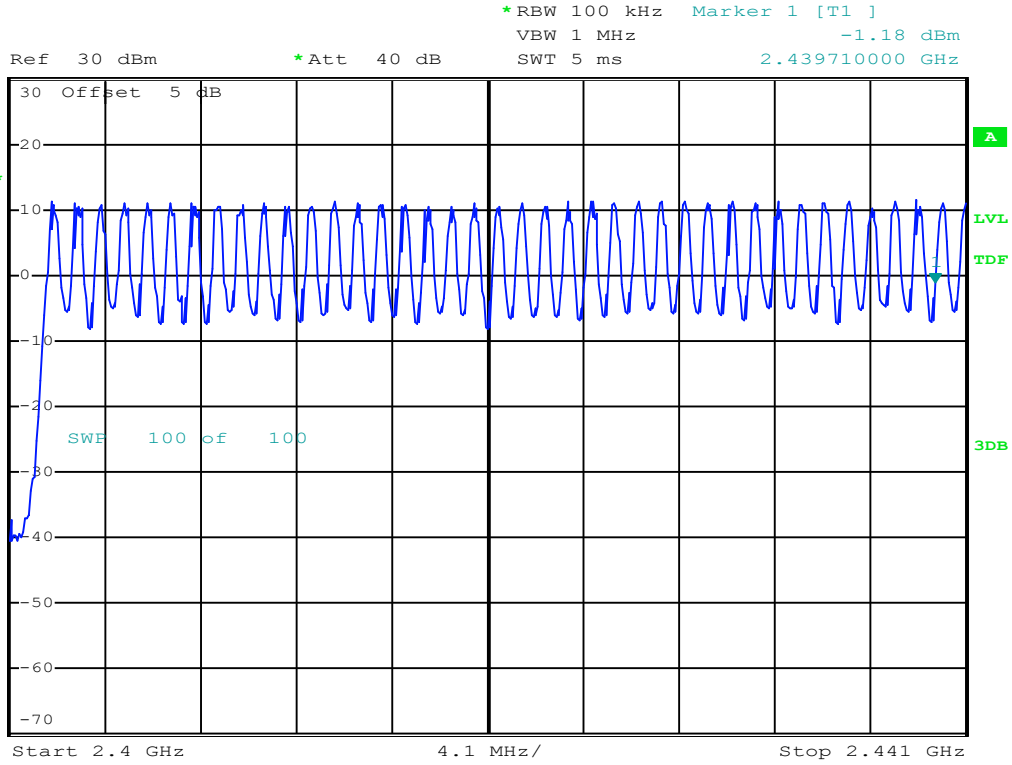


<b>Number of Hopping Channels</b>				
<b>Start Frequency (MHz)</b>	<b>Channel Frequency (MHz)</b>	<b>Mode</b>	<b>Modulation</b>	<b>Number of Channels</b>
2400	2441.0	BT BR	GFSK	40
2441	2485.0			39
<b>Total [N<sub>Chan</sub>]</b>				<b>79</b>
2400	2441.0	BT 2EDR	Pi/4-DQPSK	40
2441	2485.0			39
<b>Total [N<sub>Chan</sub>]</b>				<b>79</b>

# Number of Hopping Channels



Date: 28.MAR.2024 16:05:49

Start Freq:  MHz

Stop Freq:  MHz

Mode:

Modulation:

Number of Channels:  kHz

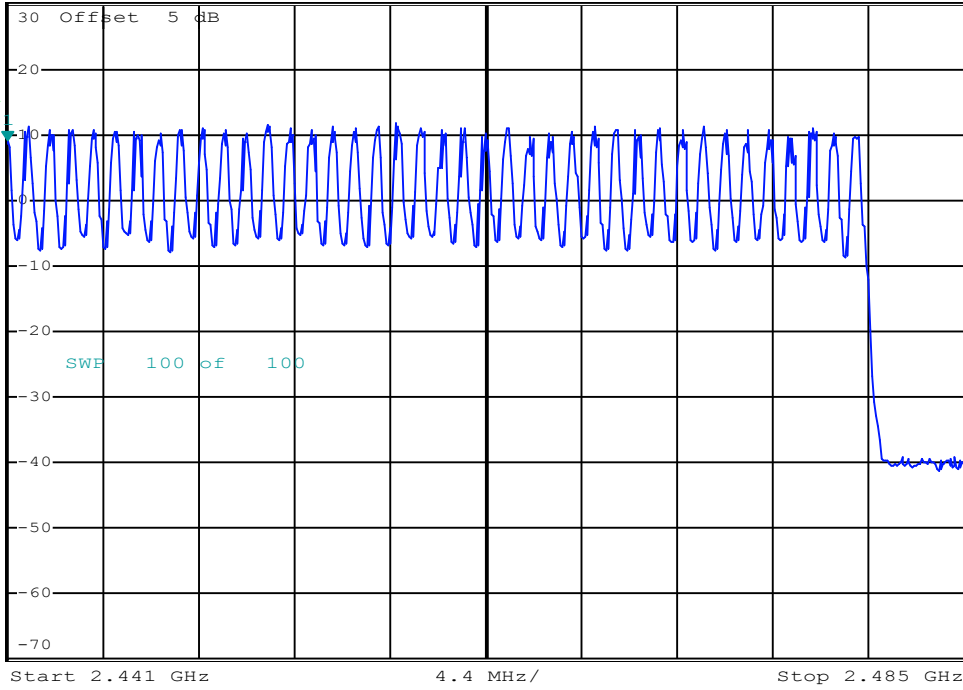
# Number of Hopping Channels



\*RBW 100 kHz Marker 1 [T1 ]  
VBW 1 MHz 9.01 dBm  
SWT 5 ms 2.441000000 GHz

Ref 30 dBm

\*Att 40 dB



Date: 28.MAR.2024 16:08:13

Start Freq:  MHz

Stop Freq:  MHz

Mode:

Modulation:

Number of Channels:  kHz

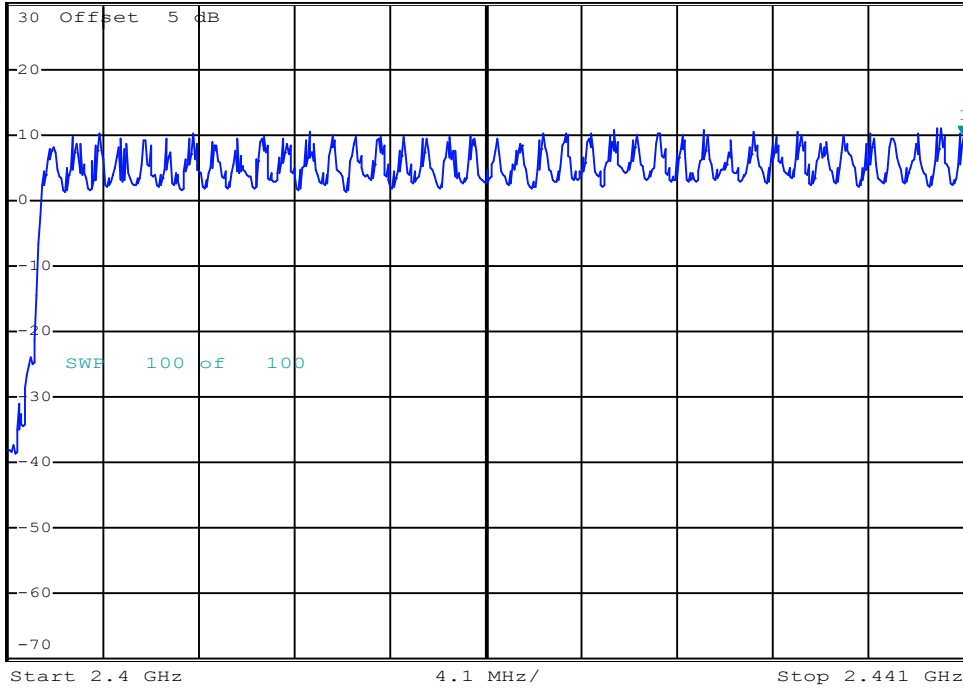
# Number of Hopping Channels



\*RBW 100 kHz Marker 1 [T1 ]  
VBW 1 MHz 9.82 dBm  
SWT 5 ms 2.441000000 GHz

Ref 30 dBm

\*Att 40 dB



Date: 28.MAR.2024 16:15:03

Start Freq:  MHz

Stop Freq:  MHz

Mode:

Modulation:

Number of Channels:  kHz

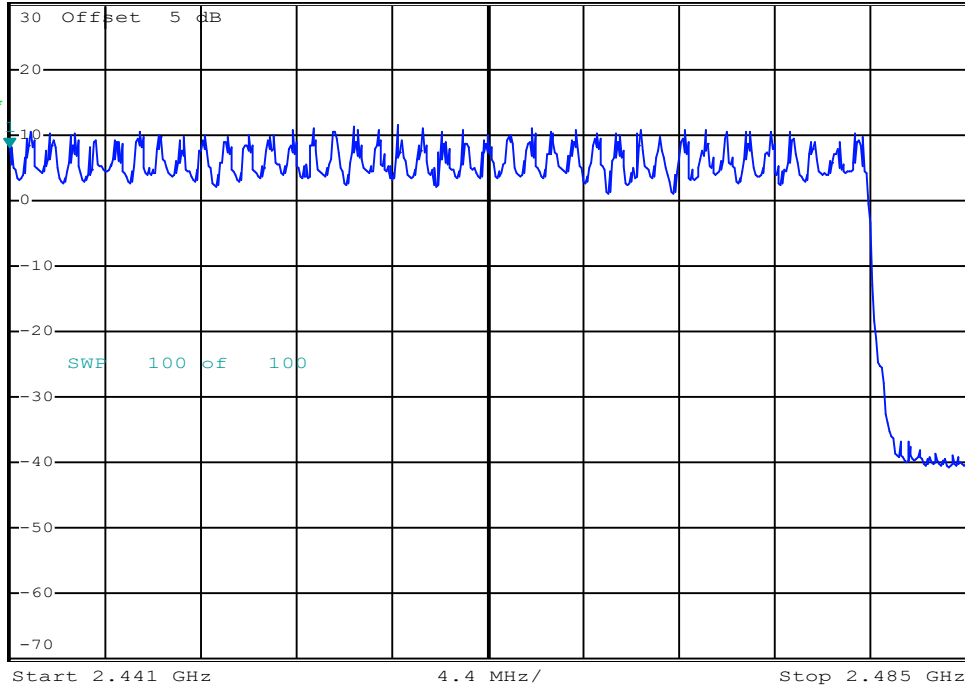
# Number of Hopping Channels



\*RBW 100 kHz    Marker 1 [T1 ]  
VBW 1 MHz                    8.03 dBm  
SWT 5 ms                      2.441000000 GHz

Ref 30 dBm

\*Att 40 dB



Date: 28.MAR.2024 16:12:04

Start Freq:  MHz

Stop Freq:  MHz

Mode:

Modulation:

Number of Channels:  kHz

<b>Hopping Channel Separation</b>					
<b>Mode</b>	<b>Modulation</b>	<b>20dB Bandwidth (MHz)</b>	<b>Channel Separation (MHz)</b>	<b>Minimum Separation (MHz)</b>	<b>Margin (MHz)</b>
BT BR	GFSK	1.008	1.000	0.672	0.328
BT 2EDR	Pi/4-DQPSK	0.996	1.000	0.664	0.336
BT 3EDR	8-DPSK	1.380	1.000	0.920	0.080
<b>Result:</b>					<b>Complies</b>

Minimum Bandwidth = 20dB BW X 2/3

Margin = Channel Separation - 20dB Bandwidth

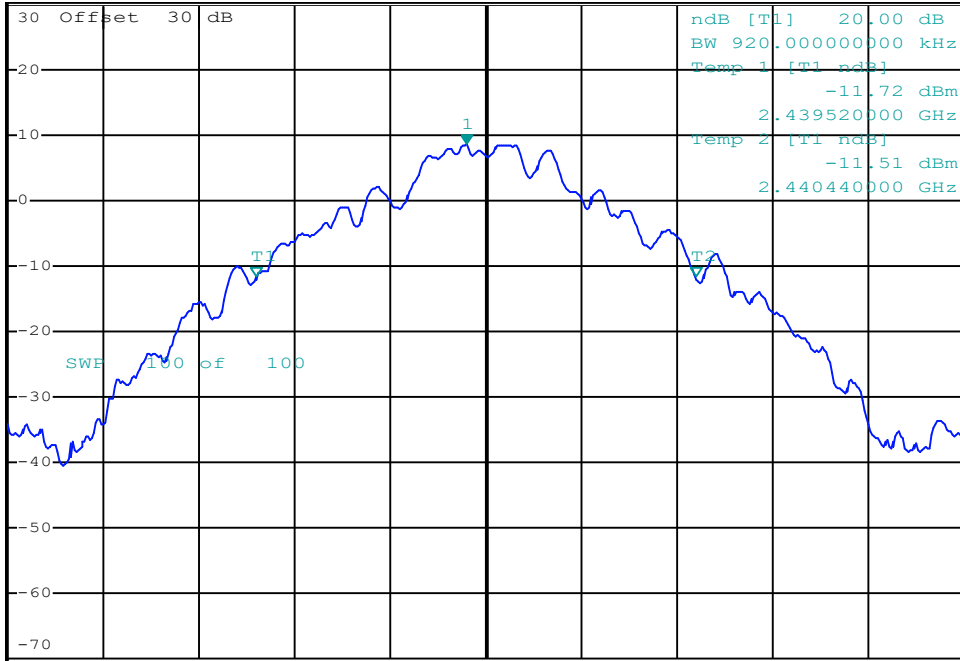
# FHSS 20dB BW



\*RBW 30 kHz    Marker 1 [T1]  
 VBW 100 kHz    8.48 dBm  
 SWT 2.5 ms    2.439960000 GHz

Ref 30 dBm    \*Att 20 dB

1 PK  
VIEW



Center 2.44 GHz    200 kHz/    Span 2 MHz

Date: 16.APR.2024 17:49:12

Channel:

Frequency:  MHz

Mode:

Modulation:

Measured 20dB BW:  MHz

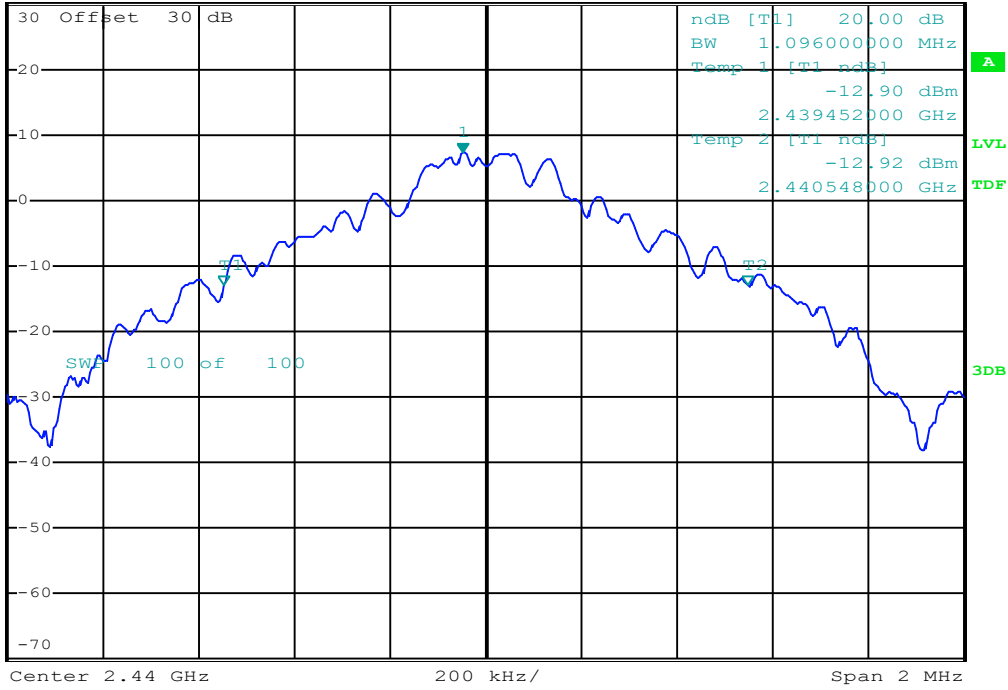
# FHSS 20dB BW



\*RBW 30 kHz    Marker 1 [T1 ]  
VBW 100 kHz    7.19 dBm  
SWT 2.5 ms    2.439952000 GHz

Ref 30 dBm    \*Att 20 dB

1 PK  
VIEW



Date: 16.APR.2024 17:45:10

Channel:

Mode:

Frequency:  MHz

Modulation:

Measured 20dB BW:  MHz



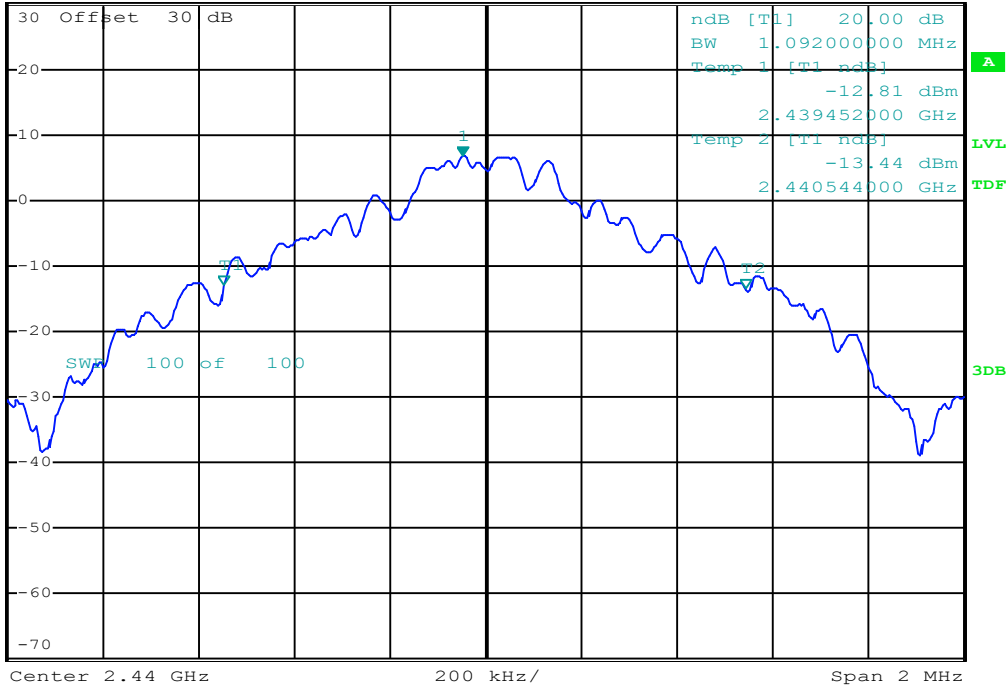
# FHSS 20dB BW



\*RBW 30 kHz    Marker 1 [T1]  
VBW 100 kHz    6.68 dBm  
SWT 2.5 ms    2.439952000 GHz

Ref 30 dBm    \*Att 20 dB

1 PK  
VIEW



Date: 16.APR.2024 17:45:43

Channel:

Mode:

Frequency:  MHz

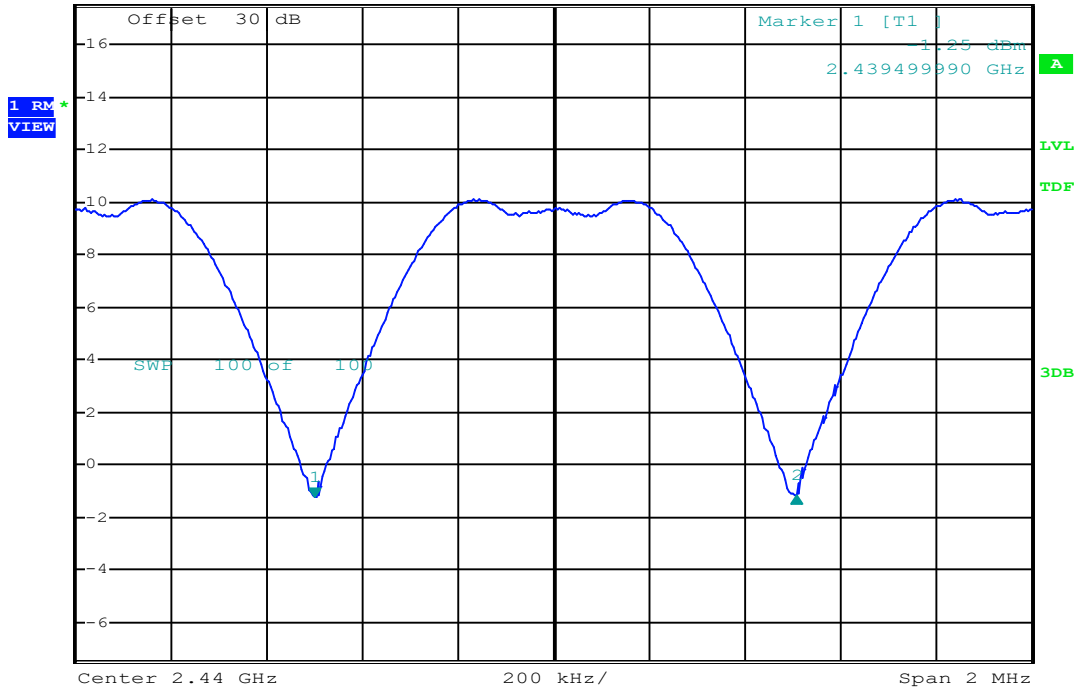
Modulation:

Measured 20dB BW:  MHz

# FHSS Channel Separation



\*RBW 300 kHz Delta 2 [T1 ]  
 VBW 3 MHz 0.10 dB  
 Ref 17.5 dBm \*Att 10 dB SWT 2.5 ms 1.008010000 MHz



Date: 14.JUN.2024 11:33:10

Channel:

Frequency:  MHz

Mode:

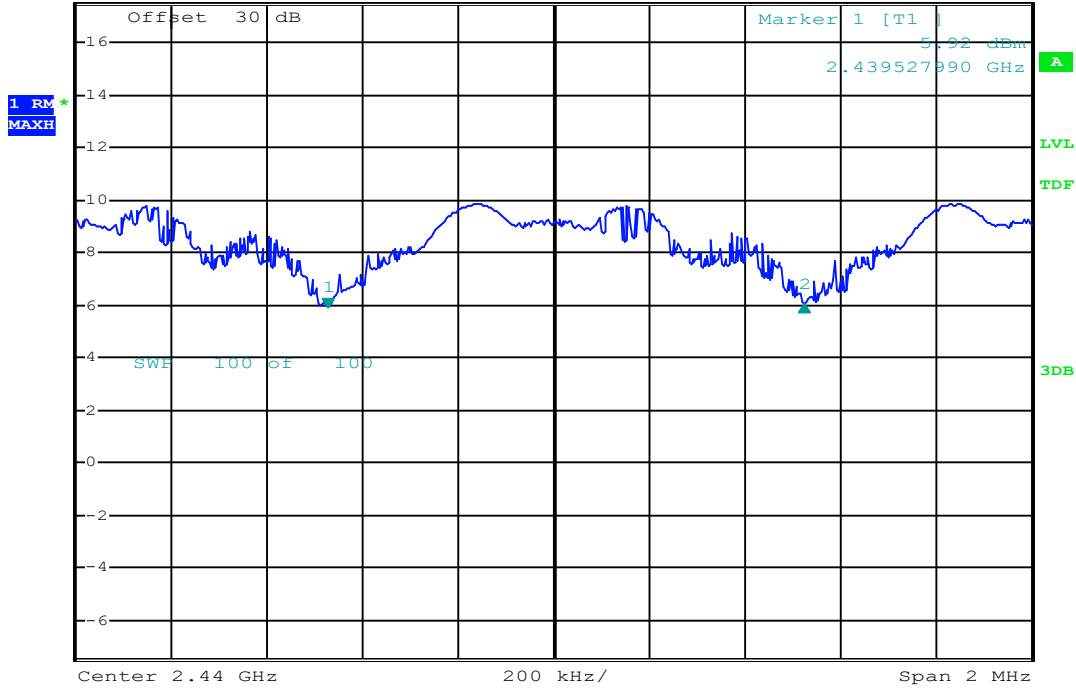
Modulation:

Measured Channel Separation:  MHz

# FHSS Channel Separation



\*RBW 300 kHz Delta 2 [T1 ]  
 VBW 3 MHz 0.10 dB  
 Ref 17.5 dBm \*Att 10 dB SWT 2.5 ms 996.010000000 kHz



Date: 14.JUN.2024 10:55:22

Channel:

Frequency:  MHz

Mode:

Modulation:

Measured Channel Separation:  MHz

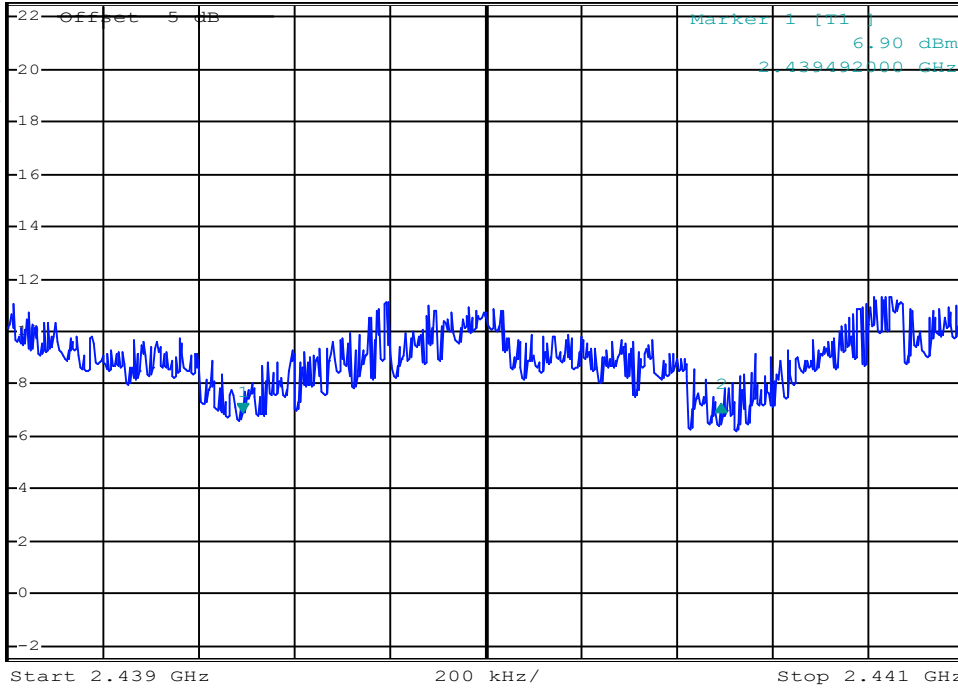
# FHSS Channel Separation



\*RBW 300 kHz Delta 2 [T1 ]  
 VBW 3 MHz 0.32 dB  
 SWT 2.5 ms 1.000000000 MHz

Ref 35 dBm

\*Att 30 dB



Date: 4.APR.2024 21:46:40

Channel:

Frequency:  MHz

Mode:

Modulation:

Measured Channel Separation:  MHz

Accumulated Time of Occupancy DSS										
Channel Frequency (MHz)	Packet	Channel On Time (Dwell) [t <sub>Dwell</sub> ] (mSec)	Meas Period [t <sub>Meas</sub> ] (mSec)	Number of Tx per Period [N <sub>Tx</sub> ]	Number of Channels Employed [N <sub>Chan</sub> ]	Maximum TOO Per Channel [t <sub>Max</sub> ] (mSec)	Maximum TOO Period [t <sub>Period</sub> ] (mSec)	Accumulated Time of Occupancy [t <sub>Occ</sub> ] (mSec)	Limit [Limit] (mSec)	Margin (mSec)
2440.00	DH1, ...	0.386	1000	11	79	400.0	31600	134.2	400	265.8
	DH3, ...	1.628		7				360.1		39.9
	DH5, ...	2.890		3				274.0		126.0
<b>Result:</b>									<b>Complies</b>	

TOO = Time of Occupancy

Number of Channels Employed [N<sub>Chan</sub>]: See Table 11.1

Maximum TOO Period [t<sub>Period</sub>] = Number of Channels [N<sub>Chan</sub>] X 0.4Sec, as per §15.247, RSS-247

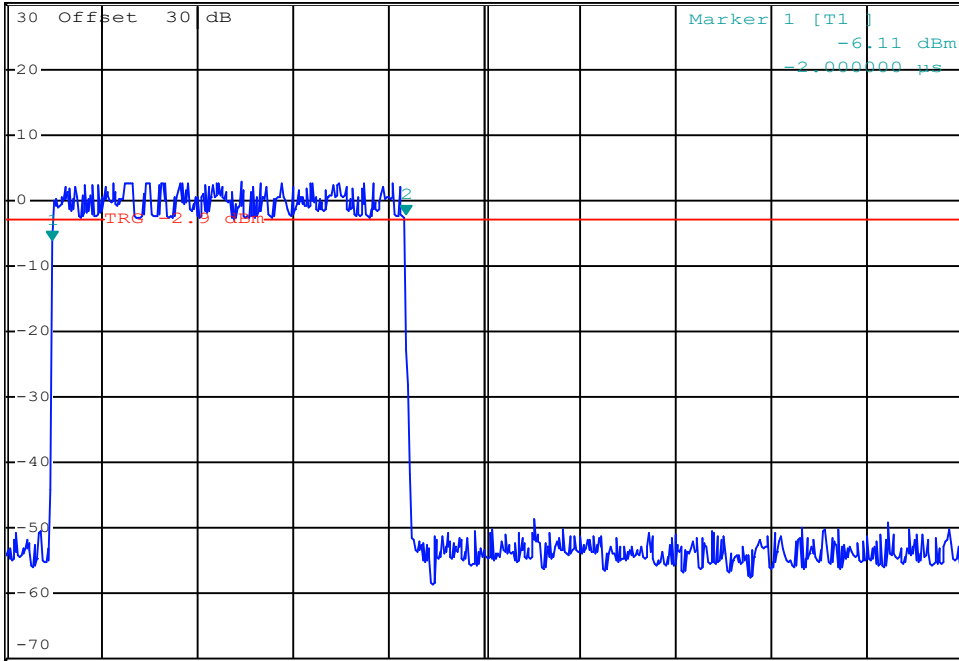
Accumulated Time of Occupancy [t<sub>Occ</sub>] = 
$$\frac{(\text{Number of Tx per Period } [N_{Tx}] \times \text{Dwell Time } [t_{Dwell}] \times \text{Maximum TOO Period } [t_{Period}])}{\text{Measurement Period } [t_{Meas}]}$$

Margin = Limit [Limit] - Accumulated Time of Occupancy [t<sub>Occ</sub>]

Dwell Time



Ref 30 dBm \*Att 10 dB RBW 1 MHz Marker 2 [T1 ] -2.03 dBm  
VEW 10 MHz SWT 1 ms 368.000000  $\mu$ s



Date: 14.JUN.2024 10:08:14

Packet: DH1, DM1, 2-DH1, 3-DH1

Measured Dwell Time: 0.386 mSec

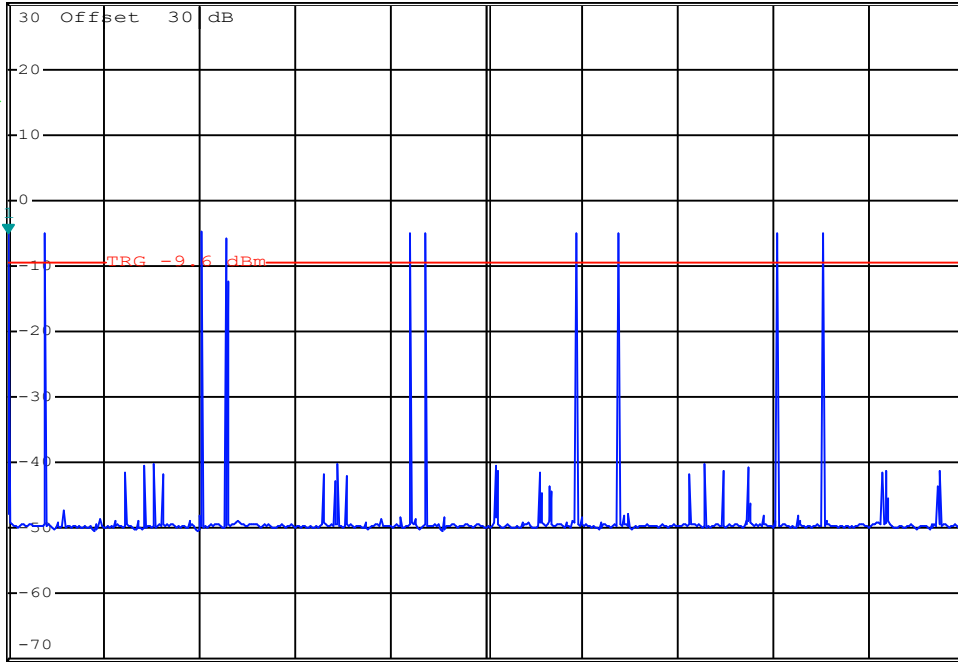
# Number of Transmits



RBW 100 kHz Marker 1 [T1 ]  
VEW 1 MHz -4.95 dBm  
SWT 1 s -2.000000  $\mu$ s

Ref 30 dBm \*Att 10 dB

1 RM\*  
VIEW



Center 2.44 GHz 100 ms/

Date: 14.JUN.2024 10:14:43

Packet: **DH1, DM1, 2-DH1, 3-DH1**

Transmit Count: **11** /1000 mSec

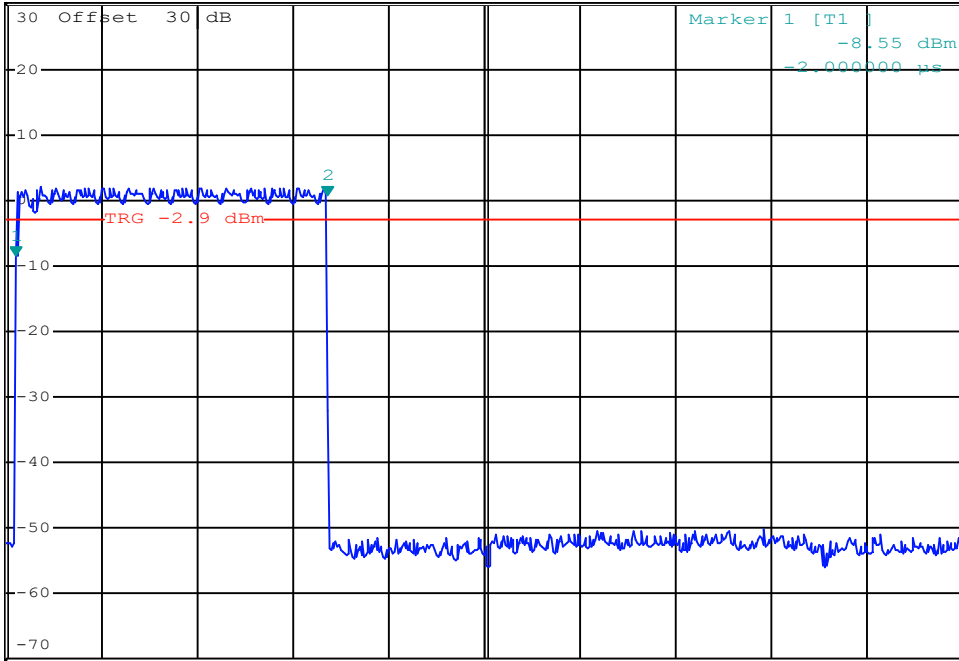
Measurement Period: **1000** mSec

# Dwell Time



Ref 30 dBm      \*Att 10 dB      RBW 1 MHz      Marker 2 [T1 ]  
VEW 10 MHz      0.72 dBm  
SWT 5 ms      1.628000 ms

1 RM\*  
VIEW



Date: 14.JUN.2024 10:09:48

Packet: **DH3, DM3, 2-DH3, 3-DH3**

Measured Dwell Time: **1.628** mSec

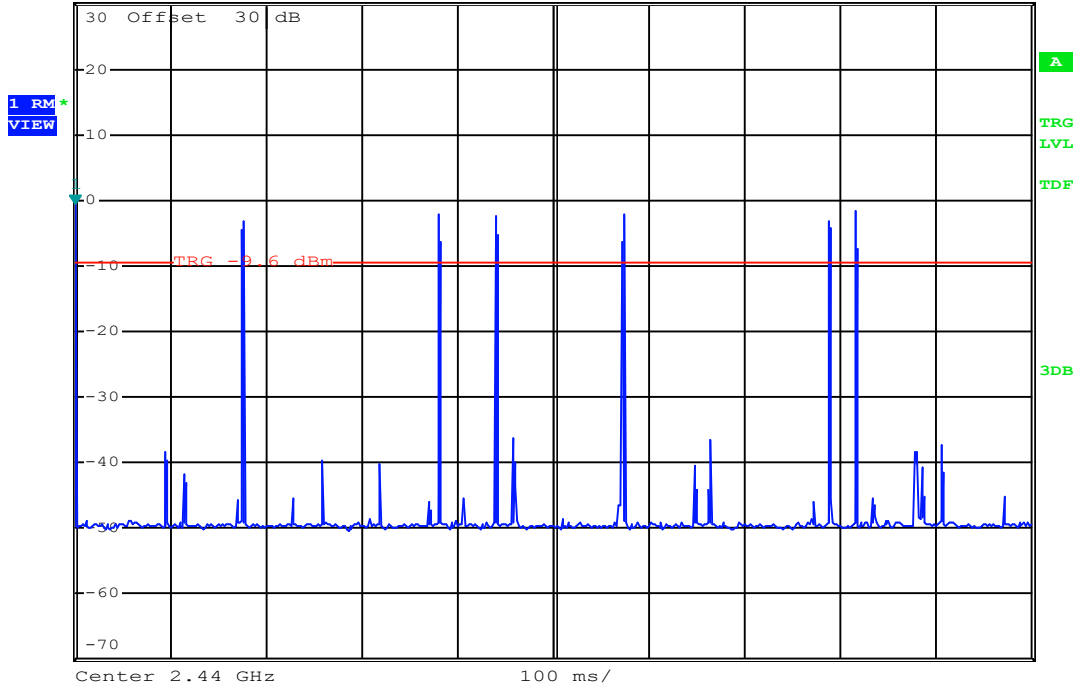


# Number of Transmits



RBW 100 kHz Marker 1 [T1 ]  
VEW 1 MHz -0.71 dBm  
SWT 1 s -2.000000  $\mu$ s

Ref 30 dBm \*Att 10 dB



Date: 14.JUN.2024 10:15:31

Packet: **DH3, DM3, 2-DH3, 3-DH3**

Transmit Count: **7** /1000 mSec

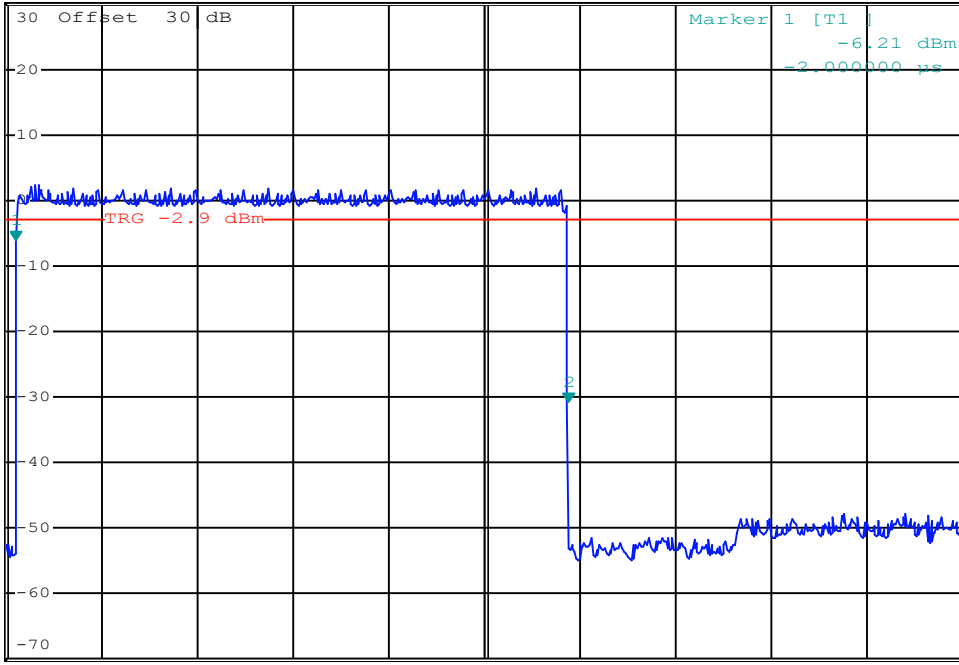
Measurement Period: **1000** mSec

# Dwell Time



Ref 30 dBm      \*Att 10 dB      RBW 1 MHz      Marker 2 [T1 ]  
VEW 10 MHz      -30.65 dBm  
SWT 5 ms      2.888000 ms

1 RM\*  
VIEW



Date: 14.JUN.2024 10:10:56

Packet: **DH5, DM5, 2-DH5, 3-DH5**

Measured Dwell Time: **2.89** mSec

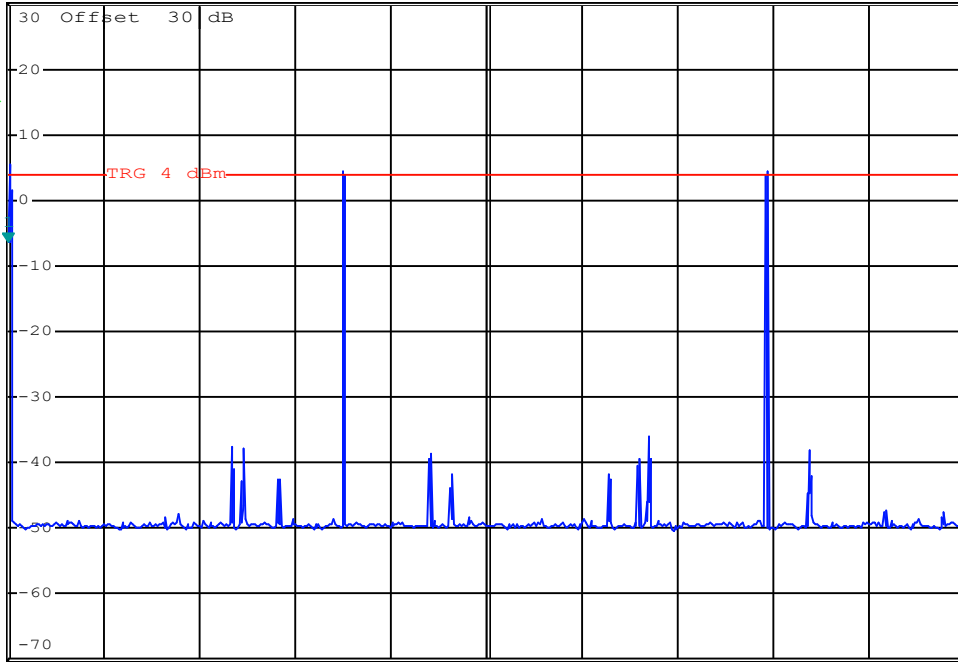
# Number of Transmits



RBW 100 kHz Marker 1 [T1 ]  
VEW 1 MHz -6.46 dBm  
SWT 1 s -2.000000  $\mu$ s

Ref 30 dBm \*Att 10 dB

1 RM\*  
VIEW



Date: 14.JUN.2024 10:12:47

Packet: **DH5, DM5, 2-DH5, 3-DH5**

Transmit Count: **3** /1000 mSec

Measurement Period: **1000** mSec