

|   | Норр                                    | ing No. NVN  | IT 3-DH1 2441                   | MHz   |                                      |
|---|---|--|---------------------------------|---|--------------------------------------|
| Magilent Spectrum Analyzer - Sv             | 1                                       |  |                                 |   | - đ <mark>- x</mark>                 |
| Center Freg 2.441                           | Ω AC 750000 GHz                         | SENSE:INT  | ALIGN AUTO<br>Avg Type: Log-Pwr | 10:51:45 PM Apr 07, 2025<br>TRACE 1 2 3 4 5 6 | Frequency                            |
|   | PNO: Fast<br>IFGain:Low                 | Trig: Free Run<br>#Atten: 30 dB  | Avg Hold:>100/100               |   |                                      |
| Ref Offset :<br>10 dB/div Ref 20.00         |   |  | Mkr1 2                          | 2.401 837 0 GHz<br>3.553 dBm                  | Auto Tune                            |
| Log<br>10.0 1<br>0.00 1<br>- 10.0           | ᢣᡗᡁᡐᠵᡍᡘ᠊ᡘᠯᡐᠶᡎ                           | the second s | www.www.www.www                 |   | Center Freq<br>2.441750000 GHz       |
| -20.0<br>-30.0<br>-40.0 <mark>//</mark>     |   |  |                                 |   | <b>Start Freq</b><br>2.400000000 GHz |
| -50.0                                       |   |  |                                 | h.  | <b>Stop Freq</b><br>2.483500000 GHz  |
| Start 2.40000 GHz<br>#Res BW 100 kHz        | #VE                                     | SW 300 kHz   | Sweep 3                         | Stop 2.48350 GHz<br>3.000 ms (1001 pts)       | CF Step<br>8.350000 MHz<br>Auto Man  |
| MKR MODE TRC SCL<br>1 N 1 f<br>2 N 1 f<br>3 | X<br>2.401 837 0 GHz<br>2.480 160 0 GHz | Y<br>3.553 dBm<br>3.718 dBm  | FUNCTION FUNCTION WIDTH         | FUNCTION VALUE                                | Freq Offset                          |
| 4<br>5<br>6<br>7<br>8<br>9<br>9             |   |  |                                 |   | 0 Hz                                 |
|   |   |  |                                 |   |                                      |
| MSG   |   |  | STATL                           | IS  |                                      |

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#### 14. Dwell Time

#### 14.1 Block Diagram Of Test Setup



#### 14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

#### 14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

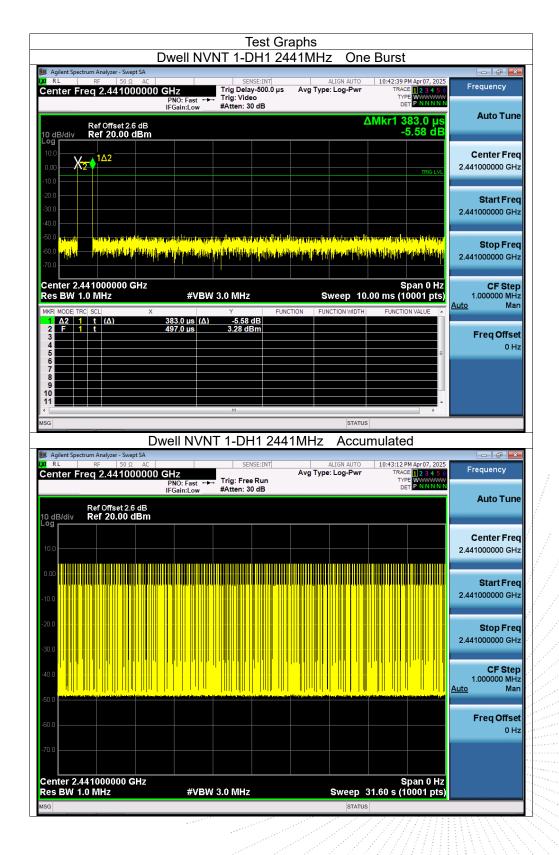
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

| Mode  | Frequency<br>(MHz) | Pulse<br>Time<br>(ms) | Total Dwell<br>Time (ms) | Burst<br>Count | Period<br>Time<br>(ms) | Limit<br>(ms) | Verdict |
|-------|--------------------|-----------------------|--------------------------|----------------|------------------------|---------------|---------|
| 1-DH1 | 2441               | 0.383                 | 122.177                  | 319            | 31600                  | 400           | Pass    |
| 1-DH3 | 2441               | 1.639                 | 267.157                  | 163            | 31600                  | 400           | Pass    |
| 1-DH5 | 2441               | 2.887                 | 280.039                  | 97             | 31600                  | 400           | Pass    |
| 2-DH1 | 2441               | 0.392                 | 124.656                  | 318            | 31600                  | 400           | Pass    |
| 2-DH3 | 2441               | 1.643                 | 261.237                  | 159            | 31600                  | 400           | Pass    |
| 2-DH5 | 2441               | 2.891                 | 303.555                  | 105            | 31600                  | 400           | Pass    |
| 3-DH1 | 2441               | 0.391                 | 123.556                  | 316            | 31600                  | 400           | Pass    |
| 3-DH3 | 2441               | 1.642                 | 256.152                  | 156            | 31600                  | 400           | Pass    |
| 3-DH5 | 2441               | 2.894                 | 269.142                  | 93             | 31600                  | 400           | Pass    |

#### 14.4 Test Result

Note: Total Dwell Time (ms) = Pulse Time (ms)\*Burst Count







|  | Dwell NVN   | IT 1-DH3   | 2441MH             | z One                    | Burst  |   |
|--|---|--|--------------------|--------------------------|--|---|
| Agilent Spectrum Analyzer - Swept SA           IXI         R.L         RF         50 Ω         AC  |   | SENSE:INT  |                    | ALIGN AUTO               | 10:53:31 PM Apr 07, 2025                         |   |
| Center Freq 2.44100000   | 0 GHz<br>PNO: Fast ↔→<br>IFGain:Low   | Trig Delay-500.0<br>Trig: Video<br>#Atten: 30 dB | µs Avg Type        | e: Log-Pwr               | TRACE 1 2 3 4 5 6<br>TYPE WWWWW<br>DET P NNNN    | Frequency   |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm   |   |  |                    | Δ                        | Mkr1 1.639 ms<br>-0.93 dB                        | Auto Tune   |
| Log<br>10.0  |   |  |                    |                          |  | Center Freq   |
| 0.00   | <u>\2</u>   |  |                    |                          | TRIG LVL   | 2.441000000 GHz   |
|  |   |  |                    |                          |  |   |
| -20.0  |   |  |                    |                          |  | Start Freq  |
| -40.0  |   |  |                    |                          |  | 2.441000000 GHz   |
|  | dialed in a birry family it don't   | <u>มีสไหร่งกุรได้ส่ำการสาวารการ</u>              | a linn head to the |                          | interentitiefetstelleturitiefenstiten winger     | Stop Freq   |
| -60.0 -70.0  | <mark>dente ling i del presidita e la presidente del presidente del presidente del presidente del presidente del presi</mark> | ikiii kiinin ph <sup>i</sup> nin pailiin         |                    | <mark>m mahin han</mark> | People and public the                            | 2.441000000 GHz   |
| Center 2.441000000 GHz   |   |  |                    |                          | Span 0 Hz  | CF Step   |
| Res BW 1.0 MHz   | #VBW 3  | 3.0 MHz  | s                  | weep 10.                 | 00 ms (10001 pts)                                | 1.000000 MHz<br>Auto Man  |
| MKR         MODE         TRC         SCL         X           1         Δ2         1         t         (Δ)  | 1.639 ms (Δ)<br>496.0 μs  | Ƴ<br>-0.93 dB                                    | FUNCTION FUN       | ICTION WIDTH             | FUNCTION VALUE                                   |   |
| 2 F 1 t  | 496.0 µs  | -7.67 dBm  |                    |                          |  | Freq Offset   |
| 4<br>5<br>6  |   |  |                    |                          | E  | 0 Hz  |
| 7  |   |  |                    |                          |  |   |
| 9  |   |  |                    |                          |  |   |
| 11   |   |  |                    |                          |  |   |
| MSG  |   |  |                    | STATUS                   |  |   |
|  | Owell NVNT  | 1-DH3 2  | 441MHz             | Accur                    | nulated  |   |
| Image: Again and the sector of the   |   | SENSE:INT  |                    | ALIGN AUTO               | 10:54:04 PM Apr 07, 2025                         | Frequency   |
|  |   | Trig: Free Run                                   | Avg Type           | e: Log-Pwr               | TRACE 1 2 3 4 5 6<br>TYPE WWWWW<br>DET P N N N N |   |
| Center Freq 2.44100000   | PNO: Fast   | #Atten: 30 dB                                    |                    |                          | 521  |   |
| Ref Offset 2.6 dB  | PNO: Fast ++++  |  |                    |                          |  | Auto Tune   |
| Ref Offset 2.6 dB  | PNO: Fast ++++  |  |                    |                          |  |   |
| Ref Offset 2.6 dB  | PNO: Fast ++++  |  |                    |                          |  | Auto Tune   |
| Ref Offset 2.6 dB<br>10 dE/div Ref 20.00 dBm   | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz   |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm<br>10.0<br>0.00   | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq   |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm<br>10.0   | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz   |
| Ref Offset 2.6 dB           10 dB/div         Ref 20.00 dBm           10 d0         10.00           10.0         0.00  | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq   |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0 | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz  |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0<br>10.0   | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz   |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm<br>10.0<br>0.00<br>10.0<br>-20.0  | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz   |
| Ref Offset 2.6 dB<br>Ref 20.00 dBm   | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz  |
| Ref Offset 2.6 dB           10 dB/div           10.0           10.0           10.0           10.0           -20.0           -30.0           -40.0           -50.0  | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>1.000000 MHz<br>Auto Man<br>Freq Offset   |
| Ref Offset 2.6 dB           10 dB/div         Ref 20.00 dBm           10.0   | PNO: Fast ++++  |  |                    |                          |  | Start Freq           2.441000000 GHz           Start Freq           2.441000000 GHz           Stop Freq           2.441000000 GHz           CF Step           1.000000 MHz           Auto |
| Ref Offset 2.6 dB           10 dB/div           10 0           0 00           0 00           -20.0           -30.0           -40.0   | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>1.000000 MHz<br>Auto Man<br>Freq Offset   |
| Ref Offset 2.6 dB           10 dB/div           10.0           10.0           -0.00           -10.0           -20.0           -30.0           -40.0           -60.0           -70.0  | PNO: Fast ++++  |  |                    |                          |  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>1.000000 MHz<br>Auto Man<br>Freq Offset   |
| Ref Offset 2.6 dB           10 dB/div           10.0           10.0           0.00           -20.0           -30.0           -40.0           -50.0           -60.0   | PNO: Fast ++++  | #Atten: 30 dB                                    |                    | Sweep 3                  | Span 0 Hz<br>1.60 s (10001 pts)                  | Auto Tune<br>Center Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>1.000000 MHz<br>Auto Man<br>Freq Offset   |

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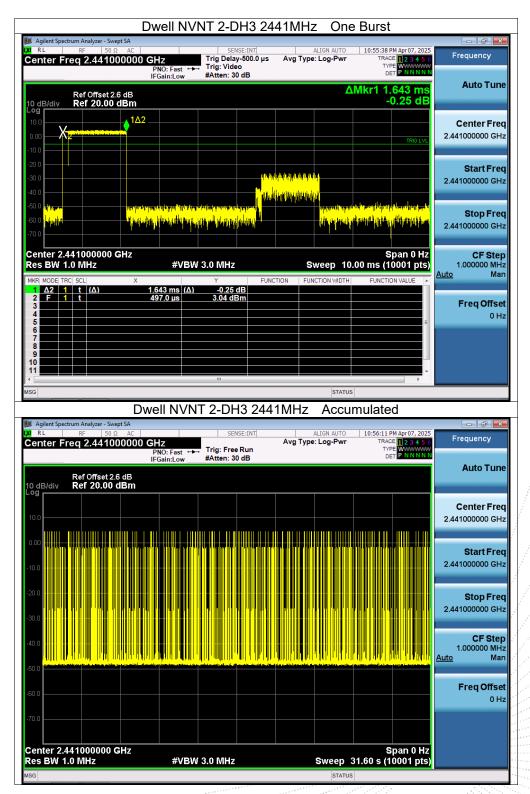


|  | ell NVNT 1-DH5 2   | 441MHz On   | e Burst  |   |
|--|--|---|--|---|
| Magilent Spectrum Analyzer - Swept SA  | SENSE:INT  | ALIGN AUTO  | 10:54:18 PM Apr 07, 2025   |   |
| Center Freq 2.441000000 GH:  | Trig Delay-500.0 μ<br>D: Fast ↔ Trig: Video<br>ain:Low #Atten: 30 dB | s Avg Type: Log-Pwr   | TRACE 123456<br>TYPE<br>DET PNNNNN   | Frequency   |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm   |  | 1   | ∆Mkr1 2.887 ms<br>-1.95 dB   | Auto Tune   |
| 10.0<br>0.00<br>-10.0  | 1Δ2  |   | TRIG LVL   | Center Freq<br>2.441000000 GHz                    |
| -20.0  |  |   |  | <b>Start Freq</b><br>2.441000000 GHz              |
| -40.0  |  | Haa Nasharan ay ka si ka baha si ka sa                                      |  | Stop Freq   |
| -70.0 Center 2.441000000 GHz   | Linustailin faile in thati na kulturi                                | ni felini kanala na madarata 1994 an d  | Span 0 Hz  | 2.441000000 GHz<br>CF Step                        |
|  | #VBW 3.0 MHz   | Sweep 1   | 0.00 ms (10001 pts)  | 1.000000 MHz<br><u>Auto</u> Man                   |
| 1         Δ2         1         t         (Δ)         2.88         2         F         1         t         496         3         3         4         496         3         4 <t< td=""><td>7 ms (Δ) -1.95 dB<br/>.0 μs -7.87 dBm</td><td></td><td></td><td>Freq Offset<br/>0 Hz</td></t<> | 7 ms (Δ) -1.95 dB<br>.0 μs -7.87 dBm                                 |   |  | Freq Offset<br>0 Hz                               |
| 5<br>6<br>7<br>8<br>9  |  |   |  |   |
|  | m  |   |  |   |
| MSG  |  | STATU   |  |   |
| Dwel   | I NVNT 1-DH5 24  | 41MHz Accu  | umulated   |   |
| M RL RF 50Ω AC<br>Center Freq 2.441000000 GH:<br>PN  | SENSE:INT<br>D: Fast →→→<br>iin:Low #Atten: 30 dB                    | ALIGN AUTO<br>Avg Type: Log-Pwr   | 10:54:52 PM Apr 07, 2025<br>TRACE 1 2 3 4 5 6<br>TYPE WWWWWWW<br>DET P N N N N | Frequency   |
| Ref Offset 2.6 dB  | In:Low writen of ab  |   |  | Auto Tune   |
| 10.0   |  |   |  | Center Freq<br>2.441000000 GHz                    |
| 0.00<br>   |  |   |  | Start Freq<br>2.441000000 GHz                     |
| -20.0  |  |   |  | <b>Stop Freq</b><br>2.441000000 GHz               |
| -40.0  |  |   |  | <b>CF Step</b><br>1.000000 MHz<br><u>Auto</u> Man |
| -50.0  |  | and the state of the |  | Freq Offset                                       |
| -70.0  |  |   |  |   |
| Center 2.441000000 GHz<br>Res BW 1.0 MHz   | #VBW 3.0 MHz   |   | Span 0 Hz<br>31.60 s (10001 pts)   |   |
| MSG  |  | STATU   | 19   |   |



| Agilent Spectrum Analyzer - Swep   | AC  | SENSE:IN   |                                   | ALIGN AUTO             | 10:46:45 PM                         |                                      |   |
|--|---|--|-----------------------------------|------------------------|-------------------------------------|--------------------------------------|---|
| Center Freq 2.44100  | IOOOO GHZ<br>PNO: Fast ↔<br>IFGain:Low  | Trig Delay-500<br>Trig: Video<br>#Atten: 30 dB         |                                   | : Log-Pwr              | TRACE<br>TYPE<br>DET                | 1 2 3 4 5 6<br>WWWWWW<br>P N N N N N | Frequency   |
| Ref Offset 2.6<br>10 dB/div Ref 20.00 c  |   |  |                                   | Δ                      | Mkr1 39<br>1.                       | 2.0 µs<br>86 dB                      | Auto Tune   |
| 10.0<br>0.00   |   |  |                                   |                        |                                     |                                      | Center Freq<br>2.441000000 GHz  |
| -10.0  |   |  |                                   |                        |                                     | TRIG LVL                             | 2.441000000 GHZ   |
| -20.0  | P   |  |                                   |                        |                                     |                                      | <b>Start Freq</b><br>2.441000000 GHz  |
| -40.0  |   |  | in the local states of the second |                        |                                     |                                      | Stop Freq   |
| -60.0 <mark></mark>  |   | t digina territa dala dala dala dala dala dala dala da |                                   |                        | aliduq <mark>ili</mark> no di       | <mark>inter filmenter fi</mark> l    | 2.441000000 GHz   |
| Center 2.441000000 G<br>Res BW 1.0 MHz   |   | 3.0 MHz  | S                                 | weep 10.               | Spa<br>00 ms (100                   | an 0 Hz<br>)01 pts)                  | CF Step<br>1.000000 MHz   |
| MKR MODE TRC SCL<br>1 Δ2 1 t (Δ)<br>2 F 1 t  | ×<br><u>392.0 μs</u> (Δ)<br>497.0 μs  | Y<br><u>1.86 dB</u><br>-1.97 dBm                       | FUNCTION FUN                      | ICTION WIDTH           | FUNCTION                            | VALUE 🔺                              | <u>Auto</u> Man   |
| 3<br>4<br>5  |   |  |                                   |                        |                                     | =                                    | Freq Offset<br>0 Hz   |
| 6<br>7<br>8<br>9   |   |  |                                   |                        |                                     |                                      |   |
| 10   |   |  |                                   |                        |                                     |                                      |   |
|  |   |  |                                   |                        |                                     | +                                    |   |
| 11   |   | m  |                                   | STATUS                 |                                     | •                                    |   |
| MSG  | Dwell NVN   | "<br>T 2-DH1   | 2441MHz                           |                        | nulated                             | • •                                  |   |
|  | AC A  | SENSE:IN   | NT<br>Avg Type<br>n               |                        | 10:47:18 PM                         | Apr 07, 2025                         | Frequency   |
| 11<br>MSG<br>Agilent Spectrum Analyzer - Swep<br>M RL RF 50 Ω<br>Center Freq 2.44100<br>Ref Offset 2.6   | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         |   |
| 11<br>MSG<br>W RL RF 50 Ω<br>Center Freq 2.44100   | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency   |
| 11<br>MSG<br>MSG<br>MSG<br>MRL<br>RF 50 Ω<br>Center Freq 2.44100<br>Ref Offset 2.6<br>10 dB/div<br>Ref 20.00 d   | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune  |
| 11         MSG           MSG         Ref           MRL         RF         50 Ω           Center Freq         2.44100           10 dB/div         Ref Offset 2.6           10 dB/div         Ref 20.00 d           10.0   | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq  |
| 11           MSG           MAGINAR Spectrum Analyzer - Swep           MRL         RF           S0 Ω           Center Freq 2.44100           10 dB/div         Ref Offset 2.6           10 dB/div         Ref 20.00 d           0 00         000  | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz   |
| 11<br>MSG<br>MSG<br>Center Freq 2.44100<br>Center Freq 2.44100<br>10 dB/div Ref 20.00 d<br>10.0<br>10.0<br>-10.0<br>-20.0  | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune<br>Center Freq<br>2.44100000 GHz<br>Start Freq   |
| 11           MSG           MAGINAR Spectrum Analyzer - Swep           MRL         RF           S0 Ω           Center Freq 2.44100           10 dB/div         Ref Offset 2.6           10 dB/div         Ref 20.00 d           0 00         000  | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz   |
| 11   | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz   |
| 11<br>MSG<br>MSG<br>MSG<br>MSG<br>MSG<br>MSG<br>MSG<br>Center Freq 2.44100<br>Center Freq 2.44100<br>Ref Offset 2.6<br>Center Freq 2.44100<br>0 dB/div<br>Ref 20.00 d<br>10 dB/div<br>Ref 20.00 d<br>-10.0<br>-20.0<br>-30.0<br>-40.0  | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz   |
| 11<br>MSG<br>MSG<br>MSG<br>MSG<br>MSG<br>MSG<br>MSG<br>MSG   | AC<br>AC<br>PNO: Fast<br>IFGain:Low   | SENSE:IN   | NT<br>Avg Type<br>n               | Accur                  | 10:47:18 PM                         | Apr 07, 2025                         | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man<br>Freq Offset |
| 11           MSG           MKG           Center Spectrum Analyzer - Swep           IN         RL           Ref Offset 2.6           10         dB/div           Ref Offset 2.6           10.0           0.00           -10.0           -10.0           -20.0           -30.0           -40.0           -60.0 | AC  <br>PHO: Fast →<br>IFGain:Low →<br>IGB<br>IBM<br>IGB<br>IBM<br>IGB<br>IGB<br>IGB<br>IGB<br>IGB<br>IGB<br>IGB<br>IGB | SENSE:IN   | NT<br>Avg Type<br>n               | ALIGN AUTO<br>ELOG-PWF | 10:47:18 PM<br>TRACE<br>TYPE<br>DET | Apr07.2025                           | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man<br>Freq Offset |







| Dwe  | ell NVNT 2-DH5 2   | 441MHz On                       | e Burst  |                                      |
|--|--|---------------------------------|--|--------------------------------------|
| Ju Agilent Spectrum Analyzer - Swept SA  | anior turk   |                                 |  |                                      |
|  | SENSE:INT<br>Trig Delay-500.0 µ:<br>Fast →→ Trig: Video<br>#Atten: 30 dB   | ALIGN AUTO<br>Avg Type: Log-Pwr | 10:56:48 PM Apr 07, 2025<br>TRACE 1 2 3 4 5 6<br>TYPE WWWWW<br>DET P N N N N N | Frequency                            |
| Ref Offset 2.6 dB  |  | L                               | ∆Mkr1 2.891 ms<br>1.25 dB  | Auto Tune                            |
|  | 142  |                                 | TRIG LVL   | Center Freq<br>2.441000000 GHz       |
| -10.0 20.0   | u,e  |                                 |  | Start Freq                           |
| -30.0<br>-40.0   |  |                                 |  | 2.441000000 GHz                      |
| -800 attent  | n and the second s |                                 |  | <b>Stop Freq</b><br>2.441000000 GHz  |
| Center 2.441000000 GHz<br>Res BW 1.0 MHz   | #VBW 3.0 MHz   | Sweep 10                        | Span 0 Hz<br>0.00 ms (10001 pts)   | CF Step<br>1.000000 MHz              |
| 2 F 1 t 477.   | ms (Δ) 1.25 dB   | INCTION FUNCTION WIDTH          | FUNCTION VALUE   | <u>Auto</u> Man<br>Freq Offset       |
| 3<br>4<br>5<br>6   |  |                                 |  | 0 Hz                                 |
| 7<br>8<br>9<br>10  |  |                                 |  |                                      |
| 11<br>K [<br>MSG   | III  | STATU                           | s  |                                      |
| Dwell  | NVNT 2-DH5 24  | 41MHz Accu                      | imulated   |                                      |
| Agilent Spectrum Analyzer - Swept SA     RL  | SENSE:INT  | ALIGN AUTO                      | 10:57:21 PM Apr 07, 2025<br>TRACE 1 2 3 4 5 6                                  | Frequency                            |
| PNC IFGa   | : Fast ↔ Trig: Free Run<br>in:Low #Atten: 30 dB  |                                 | TYPE<br>DET PNNNN  | Auto Tune                            |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm   |  |                                 |  | Center Freq                          |
|  |  |                                 |  | 2.441000000 GHz                      |
| 0.00 Harrison and the second s |  |                                 |  | <b>Start Freq</b><br>2.441000000 GHz |
| -20.0  |  |                                 |  | Stop Freq                            |
| -30.0  |  |                                 |  | 2.441000000 GHz<br>CF Step           |
| -40.0  |  |                                 |  | 1.000000 MHz<br>Auto Man             |
| -60.0  |  |                                 |  | Freq Offset<br>0 Hz                  |
| -70.0  |  |                                 |  |                                      |
|  |  |                                 |  |                                      |
| Center 2.441000000 GHz<br>Res BW 1.0 MHz   | #VBW 3.0 MHz   | Sweep                           | Span 0 Hz<br>31.60 s (10001 pts)   |                                      |



| D   | well NVNT 3-DH1  | 2441MHz On   | e Burst  |   |
|---|--|--|--|---|
| Agilent Spectrum Analyzer - Swept SA     RL RF 50 Ω AC  | SENSE:INT  | ALIGN AUTO   | 10:51:51 PM Apr 07, 2025                       |   |
| Center Freq 2.441000000 G                               |  |  | TRACE 123456<br>TYPE WWWWW<br>DET P NNNN       | Frequency   |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm<br>Log     |  |  | ΔMkr1 391.0 μs<br>0.02 dB                      | Auto Tune   |
| Log<br>10.0   |  |  |  | Center Freq   |
| ο.co  |  |  | TRIG LVL                                       | 2.441000000 GHz   |
| -10.0   |  |  |  |   |
| -20.0   |  |  |  | Start Freq<br>2.441000000 GHz                                     |
| -40.0   |  |  |  | 2.44100000 GH2  |
|   | ery Mark Malana provident ber bet politisk men afgåret som efter til som fra som efter som efter som efter som | utility all his easing which is the structure film is a single structure of the structure o | and the second second                          | Stop Freq   |
|   | erierten haaten alleita, beid hierta hykoisi piteta hiti   |  |  | 2.441000000 GHz   |
| Center 2.441000000 GHz                                  |  |  | Span 0 Hz                                      | CE Stop   |
| Res BW 1.0 MHz  | #VBW 3.0 MHz   | Sweep 1  | 0.00 ms (10001 pts)                            | CF Step<br>1.000000 MHz   |
| MKR MODE TRC SCL X                                      | Y<br>391.0 μs (Δ) 0.02 dB  | FUNCTION FUNCTION WIDTH  | FUNCTION VALUE                                 | Auto Man  |
|   | 421.0 µs -8.07 dBm   |  |  | Freq Offset   |
| 4 5   |  |  | E  | 0 Hz  |
| 6<br>7<br>8   |  |  |  |   |
| 9 10  |  |  |  |   |
|   | m  |  |  |   |
| MSG   |  | STATU  | JS   |   |
|   | ell NVNT 3-DH1 2   | 441MHz Accu  | umulated                                       |   |
| Agilent Spectrum Analyzer - Swept SA<br>M RL RF 50 Ω AC | SENSE:INT  | ALIGN AUTO   | 10:52:24 PM Apr 07, 2025                       | Frequency   |
| Center Freq 2.441000000 G                               | PNO: Fast ↔ Trig: Free Run<br>FGain:Low #Atten: 30 dB  | Avg Type: Log-Pwr  | TRACE 1 2 3 4 5 6<br>TYPE WWWWW<br>DET P NNNNN | ricquericy  |
| Ref Offset 2.6 dB                                       | FGain:Low #Atten: 50 db  |  | -  | Auto Tune   |
| 10 dB/div Ref 20.00 dBm                                 |  |  |  |   |
| 10.0  |  |  |  | Center Fred<br>2.441000000 GHz                                    |
|   | Tha the start of the two transmissions and a fillence  |  |  | 2.44100000 GH2  |
| 0.00  | , , , , , , , , , , , , , , , , , , ,  |  |  | Start Freq  |
| -10.0   |  |  |  | 2.441000000 GHz   |
| -20.0   |  |  |  |   |
|   |  |  |  | Stop Fred<br>2.441000000 GHz                                      |
| -30.0   |  |  |  |   |
|   |  |  |  |   |
| -40.0   |  |  |  | CF Step<br>1 000000 MH  |
| -40.0   |  |  |  | 1.000000 MHz  |
|   |  |  |  | 1.000000 MHz<br><u>Auto</u> Man                                   |
| -40.0   |  |  |  | 1.000000 MHz<br><u>Auto</u> Man<br>Freq Offset                    |
| -40.0 <b></b>   |  |  |  | 1.000000 MHz<br><u>Auto</u> Man<br>Freq Offset                    |
| -40 0   |  |  |  | 1.000000 MHz<br><u>Auto</u> Man<br>Freq Offset                    |
| -40.0   |  |  | Span 0 Hz                                      | 1.000000 MHz<br><u>Auto</u> Man<br>Freq Offset                    |
| -40.0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4               | #VBW 3.0 MHz   | Sweep  | 31.60 s (10001 pts)                            | CF Step<br>1.000000 MHz<br><u>Auto</u> Man<br>Freq Offset<br>0 Hz |



| _  | Dwell NVI   | <u>NT 3-DH3 24</u>  | 441MHz C                                 | One Burst                                |   |
|--|---|---|--|--|---|
| Agilent Spectrum Analyzer - Swept<br>XX RL RF 50 Ω   |   | SENSE:INT   | ALIGN A                                  | UTO 10:57:48 PM Apr 07, 2025             |   |
| Center Freq 2.44100  |   | Trig Delay-500.0 µs<br>Trig: Video  | Avg Type: Log-F                          | Pwr TRACE 1 2 3 4 5 6<br>TYPE WWWWW      | Frequency   |
|  | IFGain:Low  | #Atten: 30 dB   |  | DET PNNNN                                | Auto Tune   |
| Ref Offset 2.6   | dB  |   |  | ΔMkr1 1.642 ms<br>0.24 dB                | Auto Tune   |
| 10 dB/div Ref 20.00 d  | Bm  |   |  | 0.24 08                                  |   |
| 10.0   |   |   |  |  | Center Freq   |
|  | 1Δ2   |   |  | TRIG LVL                                 | 2.441000000 GHz   |
|  |   |   |  |  |   |
| -20.0  |   |   |  |  | Start Freq  |
| -30.0  |   |   |  |  | 2.441000000 GHz   |
| -40.0  |   | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1  | . I                                      |  |   |
| -50.0  |   | in stall and the start of the ball of   | n an | an input the state of the property for a | Stop Freq   |
| -60.0  | . Shedhadaan  | we have a state of the second s |  | alalar jalen sajarar jela ara ajalah     | 2.441000000 GHz   |
| -70.0  |   |   |  |  |   |
| Center 2.441000000 G   |   | 0.0.000   |  | Span 0 Hz                                | CF Step   |
| Res BW 1.0 MHz   |   | 3.0 MHz   | · · · ·                                  | 10.00 ms (10001 pts)                     | 1.000000 MHz<br><u>Auto</u> Man   |
| MKR MODE TRC SCL<br>1 Δ2 1 t (Δ)   | ×<br>1.642 ms (Δ)   | Y FUN<br>0.24 dB  | ICTION FUNCTION W                        | VIDTH FUNCTION VALUE                     |   |
| 2 F 1 t  | 351.0 µs  | -8.32 dBm   |  |  | Freq Offset   |
| 4  |   |   |  |  | 0 Hz  |
| 6  |   |   |  |  |   |
| 7<br>8   |   |   |  |  |   |
| 9  |   |   |  |  |   |
| 11   |   |   |  |  |   |
| MSG  |   |   | S  | TATUS                                    |   |
|  | Dwell NVN   | T 3-DH3 244   | 1MHz Ac                                  | cumulated                                |   |
|  |   |   |  |  |   |
| 🎉 Agilent Spectrum Analyzer - Swept  | : SA  |   |  |  |   |
| LXI RL RF 50 Ω   | AC  | SENSE:INT   | ALIGN AL                                 |  | Frequency   |
|  | AC<br>0000 GHz<br>PNO: Fast ↔→  | Trig: Free Run  | ALIGN AI<br>Avg Type: Log-F              |  |   |
| (X/ RL   RF 50Ω<br>Center Freq 2.44100   | AC<br>0000 GHz<br>PN0: Fast<br>IFGain:Low   |   |  | Pwr TRACE 1 2 3 4 5 6                    |   |
| 02         RL         RF         50.0           Center Freq 2.44100         Ref Offset 2.6         10           Ref Offset 2.6         Ref 2.0.00 dl         Ref 20.00 dl  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency   |
| KL RF 50 Ω     Center Freq 2.441000     Ref Offset 2.6   | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune  |
| 02         RL         RF         50.0           Center Freq 2.44100         Ref Offset 2.6         10           Ref Offset 2.6         Ref 2.0.00 dl         Ref 20.00 dl  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency Auto Tune Center Freq   |
| Rt         Rf         50 g           Center Freq 2.441000         Ref Offset 2.6         Ref Offset 2.6           10 dB/div         Ref 20.00 d         Ref 20.00 d  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune  |
| Rt         Rf         50 g           Center Freq 2.441000         Ref Offset 2.6         Ref Offset 2.6           10 dB/div         Ref 20.00 d         Ref 20.00 d  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz  |
| Center Freq 2.44100<br>Ref Offset 2.6<br>10 dB/div Ref 20.00 d<br>10.0<br>0.00   | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.44100000 GHz<br>Start Freq   |
| RL         RF         50.0           Center Freq 2.441000         Ref Offset 2.6         Ref Offset 2.6           10 dB/div         Ref 20.00 dI         Ref 20.00 dI           10.0         10.0         10.0         10.0  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz  |
| RL         RF         50.0           Center Freq 2.44100         Ref Offset 2.6         Ref Offset 2.6           10 dE/div         Ref 20.00 dI         0           10.0   | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz   |
| Center Freq 2.44100<br>Ref Offset 2.6<br>10 dB/div Ref 20.00 d<br>10.0<br>0.00   | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq  |
| RL         RF         50.0           Center Freq 2.44100         Ref Offset 2.6         Ref Offset 2.6           10 dB/div         Ref 20.00 dB         Ref 20.00 dB           10.0  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.44100000 GHz<br>Start Freq<br>2.441000000 GHz  |
| RL         Ref         50.0           Center Freq 2.44100         Ref Offset 2.6         10 dB/div         Ref Offset 2.00 dI           10 dB/div         Ref 20.00 dI         10 dI <td>AC PNO: Fast</td> <td>Trig: Free Run</td> <td></td> <td>Pwr TRACE 1 2 3 4 5 6</td> <td>Frequency<br/>Auto Tune<br/>Center Freq<br/>2.441000000 GHz<br/>Start Freq<br/>2.441000000 GHz<br/>Stop Freq<br/>2.441000000 GHz</td>    | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz   |
| RL         RF         50 Ω           Center Freq 2.441000         Ref Offset 2.6         Ref Offset 2.6           10 dB/div         Ref 20.00 dI         0           10.0  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz                            |
| RL         RF         50 Ω           Center Freq 2.44100         Ref Offset 2.6         Ref Offset 2.6           10 dB/div         Ref 20.00 d         10.0           10.0   | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz   |
| XX         RE         50.0           Center Freq 2.441000         Ref Offset 2.6         10 dE/div         Ref Offset 2.6           10 dE/div         Ref 20.00 d         10.0         10.0         10.0           -10.0         -20.0         -40.0         -40.0         -40.0         -40.0   | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>1.000000 MHz<br>1.000000 MHz<br>Auto Man                        |
| XX         RE         50.0           Center Freq 2.441000         Ref Offset 2.6         10 dE/div         Ref Offset 2.6           10 dE/div         Ref 20.00 d         10.0         10.0         10.0           -10.0         -20.0         -40.0         -40.0         -40.0         -40.0   | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man<br>Freq Offset |
| XX         Rf         50.0           Center Freq 2.44100         Ref Offset 2.6         10 dE/div         Ref 20.00 d           10 dE/div         Ref 20.00 d         10 d  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>1.000000 MHz<br>1.000000 MHz<br>Auto Man                        |
| XX         Rt         RF         50.0           Center Freq 2.441000         Ref Offset 2.6         10 dE/div         Ref Offset 2.6           10 dE/div         Ref 20.00 dI         0         0           -0.00  | AC PNO: Fast  | Trig: Free Run  |  | Pwr TRACE 1 2 3 4 5 6                    | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man<br>Freq Offset |
| XX         Rf         50.0           Center Freq 2.441000         Ref Offset 2.6         10 dE/div         Ref 20.00 dI           10 dE/div         Ref 20.00 dI         0         0         0         0           10.0         0.00         0 <td>AC<br/>PNO: Fast<br/>IFGain:Low<br/>dB<br/>Bm</td> <td>Trig: Free Run</td> <td></td> <td></td> <td>Frequency<br/>Auto Tune<br/>Center Freq<br/>2.441000000 GHz<br/>Start Freq<br/>2.441000000 GHz<br/>Stop Freq<br/>2.441000000 GHz<br/>CF Step<br/>1.000000 MHz<br/>Auto Man<br/>Freq Offset</td>  | AC<br>PNO: Fast<br>IFGain:Low<br>dB<br>Bm   | Trig: Free Run  |  |  | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man<br>Freq Offset |
| RL         Ref         50.0           Center Freq 2.44100         Ref Offset 2.6         10 dB/div         Ref 20.00 d           10 dB/div         Ref 20.00 d         10.0         10.  | AC<br>PNO: Fast<br>IFGain:Low<br>dB<br>Bm<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB | Trig: Free Run<br>#Atten: 30 dB   | Avg Type: Log-F                          | Der Den 0 Hz                             | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man<br>Freq Offset |
| XX         Rf         50.0           Center Freq 2.441000         Ref Offset 2.6         10 dE/div         Ref 20.00 dI           10 dE/div         Ref 20.00 dI         0         0         0         0           10.0         0.00         0 <td>AC<br/>PNO: Fast<br/>IFGain:Low<br/>dB<br/>Bm<br/>dB<br/>dB<br/>dB<br/>dB<br/>dB<br/>dB<br/>dB<br/>dB<br/>dB<br/>dB</td> <td>Trig: Free Run</td> <td>Avg Type: Log-F</td> <td></td> <td>Frequency<br/>Auto Tune<br/>Center Freq<br/>2.441000000 GHz<br/>Start Freq<br/>2.441000000 GHz<br/>Stop Freq<br/>2.441000000 GHz<br/>CF Step<br/>1.000000 MHz<br/>Auto Man<br/>Freq Offset</td> | AC<br>PNO: Fast<br>IFGain:Low<br>dB<br>Bm<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB<br>dB | Trig: Free Run  | Avg Type: Log-F                          |  | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man<br>Freq Offset |



| C   | well NVNT 3-DH5 2  | 2441MHz One  | e Burst  |  |
|---|--|--|--|--|
| Magilent Spectrum Analyzer - Swept SA   | SENSE:INT  | ALIGN AUTO   | 10:58:51 PM Apr 07, 2025   | - F ×  |
| Center Freq 2.441000000 (   |  |  | TRACE 1 2 3 4 5 6<br>TYPE WWWWWW<br>DET P NNNN   | Frequency  |
| Ref Offset 2.6 dB<br>10 dB/div Ref 20.00 dBm  |  | Δ  | Mkr1 2.894 ms<br>-0.43 dB  | Auto Tune  |
| Log   |  |  |  | Center Freq<br>2.441000000 GHz   |
| -10.0 X214404444444444444444444444444444444444  |  |  | TRIG LVL   |  |
| -30.0   |  |  |  | Start Freq<br>2.441000000 GHz  |
| -40.0<br>-50.0 4  | and the second   |  | and the second   | Stop Freq  |
| -70.0   | ist a for a low and the second sec    | and a surply a surply of the surple of the s | l in the property of the second s   | 2.441000000 GHz  |
| Center 2.441000000 GHz<br>Res BW 1.0 MHz  | #VBW 3.0 MHz   | -  | Span 0 Hz<br>.00 ms (10001 pts)  | CF Step<br>1.000000 MHz<br>Auto Man  |
|   | Y<br>2.894 ms (Δ) -0.43 dB<br>375.0 μs -10.07 dBm  | UNCTION FUNCTION WIDTH   | FUNCTION VALUE   |  |
| 3 4 5   |  |  | Ξ  | Freq Offset<br>0 Hz  |
| 6<br>7<br>8<br>9  |  |  |  |  |
| 10<br>11<br><   |  |  |  |  |
| MSG   |  | STATUS   | 1  |  |
|   |  |  |  |  |
| Dv  | vell NVNT 3-DH5 24   | 41MHz Accu   | mulated  |  |
| J Agilent Spectrum Analyzer - Swept SA  | SENSE:INT  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency  |
| Agilent Spectrum Analyzer - Swept SA  | SENSE:INT  |  | mulated  | Frequency  |
| J Agilent Spectrum Analyzer - Swept SA  | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   |  |
| Agilent Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           Center Freq 2.441000000 (           Ref Offset 2.6 dB           10 dB/div         Ref 20.00 dBm  | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency  |
| Agilent Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           Center Freq 2.441000000 (           Ref Offset 2.6 dB           Ref Offset 2.6 dB           Ref 20.00 dBm  | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency Auto Tune Center Freq  |
| Agilent Spectrum Analyzer - Swept SA           RL         RF         50.0.         AC           Center Freq 2.441000000         Ref Offset 2.6 dB         Ref Offset 2.6 dB         Ref 20.00 dBm           0 dB/div         Ref 20.00 dBm         Ref 20.00 dBm         Ref 20.00 dBm         Ref 20.00 dBm  | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz   |
| Agilent Spectrum Analyzer - Swept SA     RL   | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq   |
| Agilent Spectrum Analyzer - Swept SA           K         RF         50 Ω         AC           Center Freq 2.441000000 (           Ref Offset 2.6 dB           10 dB/div         Ref 20.00 dBm           000         Here         Here           10.0         Here         Here         Here           10.0         Here         Here         Here           -10.0         Here         Here         Here         Here           -30.0         Here         Here         Here         Here         Here  | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency<br>Auto Tune<br>Center Freq<br>2.44100000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz  |
| Agilent Spectrum Analyzer - Swept SA           K         RF         50 Ω         AC           Center Freq 2.441000000 (         Ref Offset 2.6 dB         B         C           10 dB/div         Ref Offset 2.0 dB         B         C         C           10 dB/div         Ref Offset 2.6 dB         C         C         C           10 dB/div         Ref Offset 2.6 dB         C         C         C           10 dB/div         Ref 20.00 dBm         C         C         C         C           20 0         A         A         A         A         A         A         A           20 0         A         A         A         A         A         A         A         A         A           20 0         A <t< td=""><td>CHZ<br/>PNO: Fast ↔ Trig: Free Run</td><td>ALIGN AUTO</td><td>10:59:25 PM Apr 07, 2025</td><td>Frequency<br/>Auto Tune<br/>Center Freq<br/>2.441000000 GHz<br/>Start Freq<br/>2.441000000 GHz<br/>Stop Freq<br/>2.441000000 GHz</td></t<>  | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>Stop Freq<br>2.441000000 GHz  |
| Agilent Spectrum Analyzer - Swept SA           RL         RF         50.0.         AC           Center Freq 2.441000000 (         Ref Offset 2.6 dB         Ref 20.00 dBm         Ref 20.00 dBm           0 <t< td=""><td>CHZ<br/>PNO: Fast ↔ Trig: Free Run</td><td>ALIGN AUTO</td><td>10:59:25 PM Apr 07, 2025</td><td>Frequency<br/>Auto Tune<br/>Center Freq<br/>2.441000000 GHz<br/>Start Freq<br/>2.441000000 GHz<br/>2.441000000 GHz<br/>2.441000000 GHz<br/>CF Step<br/>1.000000 MHz<br/>Auto Man</td></t<> | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man     |
| Agilent Spectrum Analyzer - Swept SA           RL         RF         50.0         AC           Center Freq 2.441000000 (         Ref Offset 2.6 dB         Ref Offset 2.6 dB         Ref Offset 2.6 dB           10 dB/div         Ref 20.00 dBm         Ref 20.00 dBm         Ref 20.00 dBm         Ref 20.00 dBm           -000   | CHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO   | 10:59:25 PM Apr 07, 2025   | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man     |
| Agilent Spectrum Analyzer - Swept SA         RL       RF       50.0. AC         Center Freq 2.441000000 (         Ref Offset 2.6 dB         10 dB/div       Ref 20.00 dBm         000   | SENSE:INT<br>PNO: Fast →→<br>IFGain:Low<br>Trig: Free Run<br>#Atten: 30 dB<br>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | ALIGN AUTO<br>Avg Type: Log-Pwr  | I0:59:25 PM Apr07, 2025         TRACE         I0:59:25 PM Apr07, 2025         I0:59:25 PM Apr07, 2025         I0:59:25 PM Apr07, 2025         I0:00 PM Apr07, 2025 | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>CF Step<br>1.000000 MHz<br>Auto Man     |
| Agilent Spectrum Analyzer - Swept SA           RL         RF         50.0         AC           Center Freq 2.441000000         Ref Offset 2.6 dB         Ref Offset 2.6 dB         Ref Offset 2.6 dB           10 dB/div         Ref 20.00 dBm         8  | GHZ<br>PNO: Fast ↔ Trig: Free Run  | ALIGN AUTO<br>Avg Type: Log-Pwr  | MUIAted  | Frequency<br>Auto Tune<br>Center Freq<br>2.441000000 GHz<br>Start Freq<br>2.441000000 GHz<br>2.441000000 GHz<br>2.441000000 GHz<br>1.000000 MHz<br>Auto Man<br>Freq Offset |

No.: BCTC/RF-EMC-005



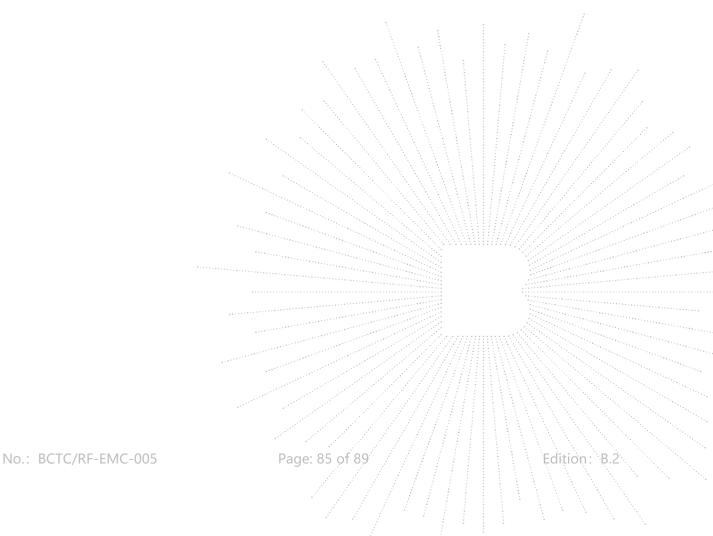
### 15. Antenna Requirement

#### 15.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 15.2 Test Result

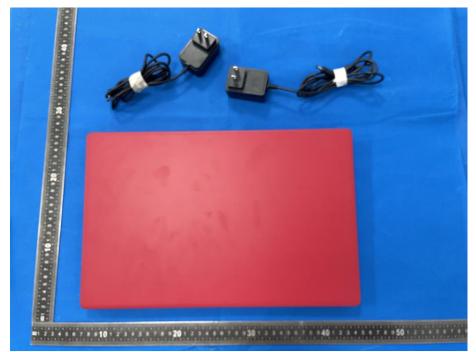
The EUT antenna is Internal antenna, fulfill the requirement of this section.





# 16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details (CLT2156RD\_External Photos & Photos)

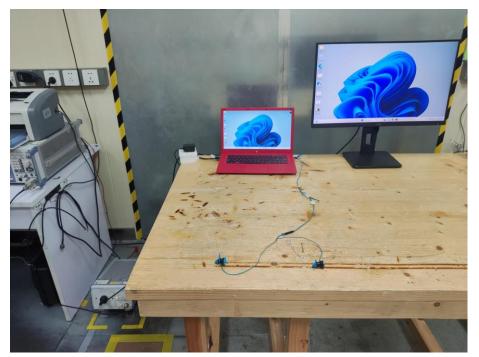
No.: BCTC/RF-EMC-005

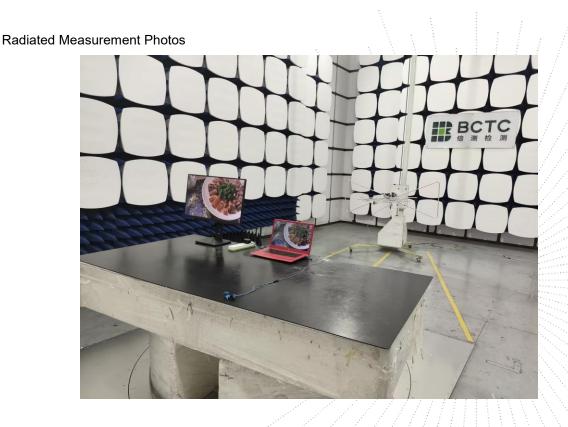
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# 17. EUT Test Setup Photographs

#### Conducted emissions





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### STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The quality system of our laboratory is in accordance with ISO/IEC17025.

8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

\*\*\*\*\* END \*\*\*\*\*

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