

## 11. Maximum Peak Output Power

## 11.1 Block Diagram Of Test Setup



### 11.2 Limit

			FCC Part15 (15.247) ,	Subpart C	
	Section	Test Item	Limit	Frequency Range (MHz)	Result
15	5.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

#### 11.3 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 the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
- 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.



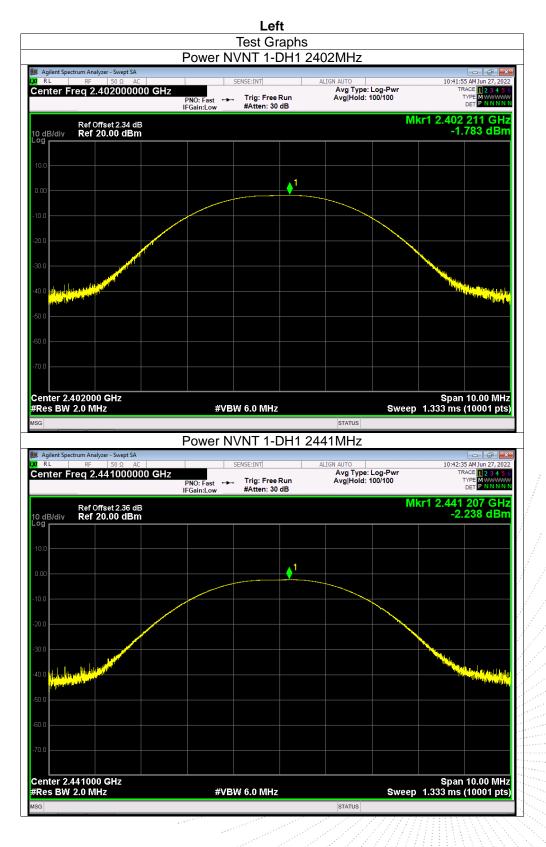
## 11.4 Test Result

Data	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
	1-DH1	2402	-1.78	21	Pass
	1-DH1	2441	-2.24	21	Pass
1 .44	1-DH1	2480	-2.76	21	Pass
Left	2-DH1	2402	-0.99	21	Pass
	2-DH1	2441	-1.51	21	Pass
	2-DH1	2480	-1.93	21	Pass
	1-DH1	2402	-1.75	21	Pass
	1-DH1	2441	-2.26	21	Pass
Diacht	1-DH1	2480	-2.73	21	Pass
Right	2-DH1	2402	-0.94	21	Pass
	2-DH1	2441	-1.41	21	Pass
	2-DH1	2480	-1.89	21	Pass

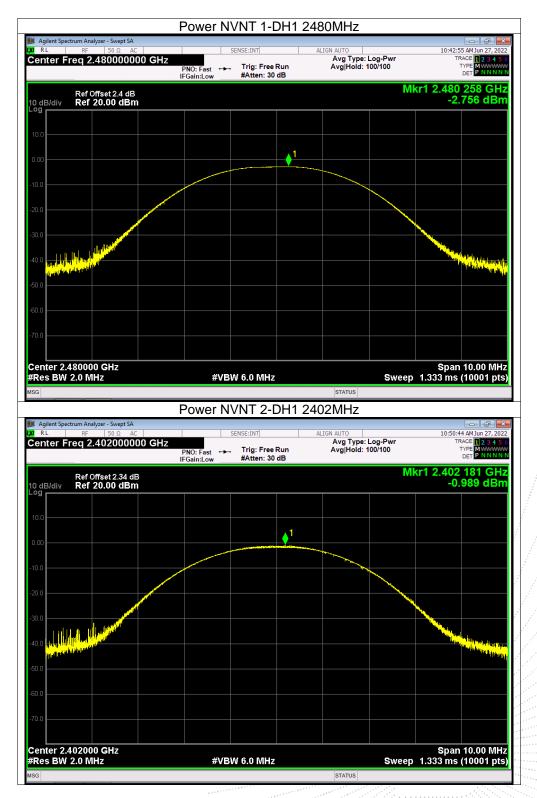
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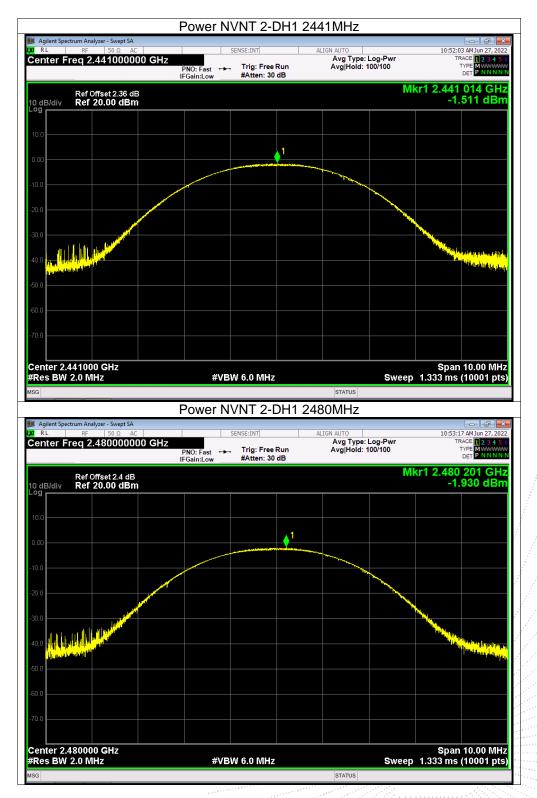




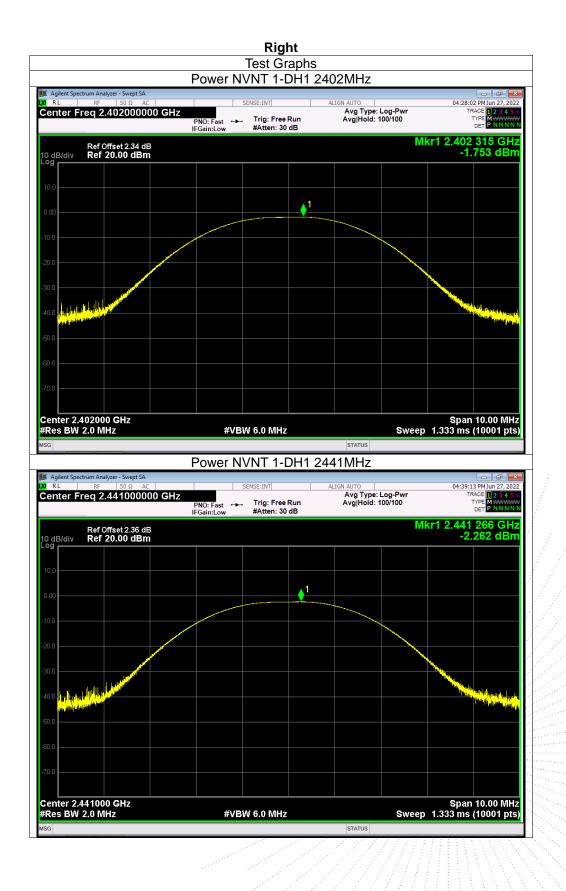




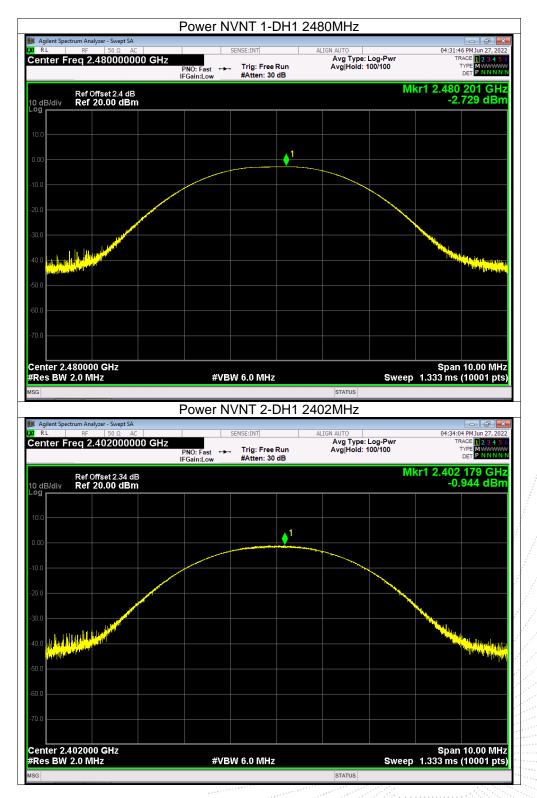




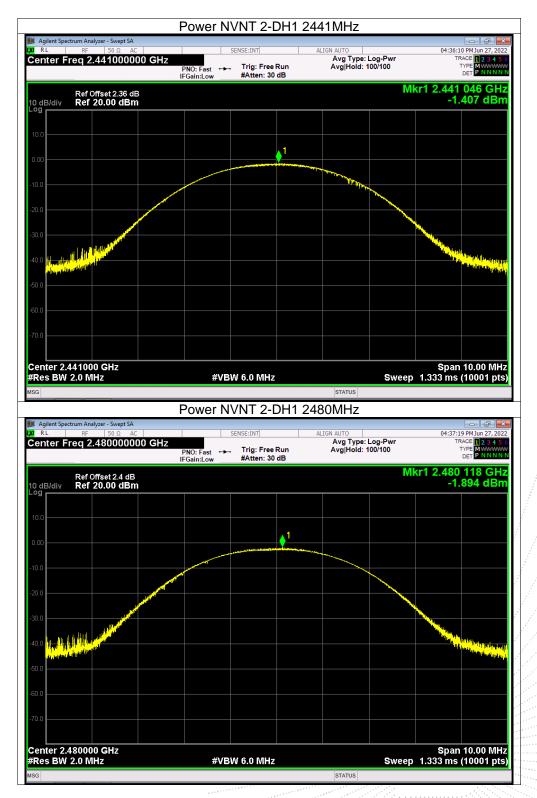














## 12. Hopping Channel Separation

### 12.1 Block Diagram Of Test Setup



#### 12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

#### 12.3 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 the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

Data	Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
	NVNT	1-DH1	2401.992	2402.990	0.998	0.733	Pass
	NVNT	1-DH1	2440.990	2441.994	1.004	0.723	Pass
1 .44	NVNT	1-DH1	2478.992	2479.990	0.998	0.711	Pass
Left	NVNT	2-DH1	2401.990	2402.994	1.004	0.758	Pass
	NVNT	2-DH1	2440.990	2441.990	1.000	0.819	Pass
	NVNT	2-DH1	2478.994	2479.994	1.000	0.806	Pass
	NVNT	1-DH1	2401.988	2402.988	1.000	0.724	Pass
	NVNT	1-DH1	2440.988	2441.988	1.000	0.722	Pass
Diaht	NVNT	1-DH1	2478.988	2479.988	1.000	0.725	Pass
Right	NVNT	2-DH1	2401.986	2402.988	1.002	0.818	Pass
	NVNT	2-DH1	2440.990	2441.990	1.000	0.777	Pass
	NVNT	2-DH1	2478.988	2479.984	0.996	0.782	Pass

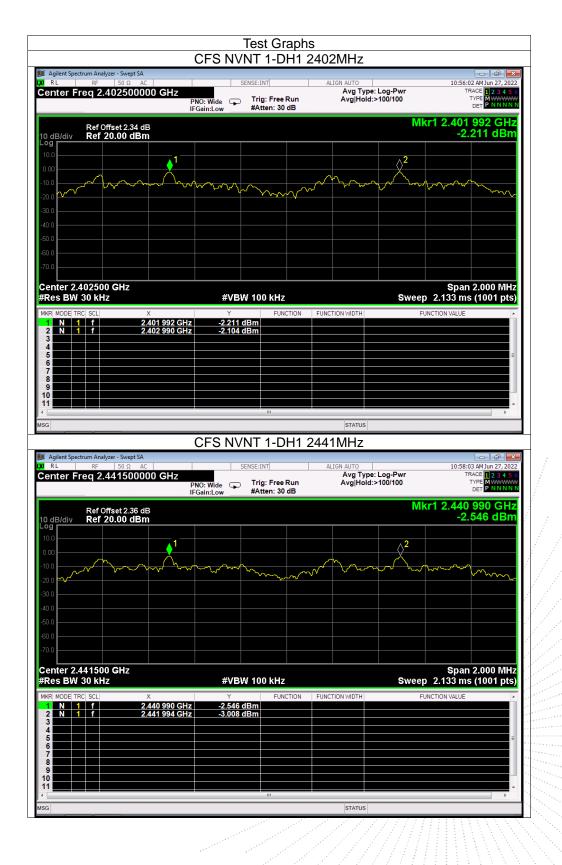
#### 12.4 Test Result

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Agilent Spectrum Analyzer - Swe		CENCE-INT		10:50:45 AM Jun 27, 20
enter Freq 2.47950	00000 GHz	SENSE:INT Wide C Trig: Free Ru	ALIGN AUTO Avg Type: Log-f n Avg Hold:>100/1	10:59:45 AM Jun 27, 20 Pwr TRACE 2 3 4 5 00 TYPE MWWW DET P N N N
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	PNO: IFGain	Wide Trig: Free Ru :Low #Atten: 30 dE		00 TYPE MWWW DET P N N N
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enter 2.402500 GHz Res BW 30 kHz KR MODE TRC SCL 1 N 1 f 2 N 1 f 3 1	× 2.401 990 GHz	Y FUNCTION -2.125 dBm	DN FUNCTION WIDTH	Sweep 2.133 ms (1001 pt
enter 2.402500 GHz Res BW 30 kHz KR MODE TRC SCL 1 N 1 f 2 N 1 f 3 4 5	× 2.401 990 GHz	Y FUNCTION -2.125 dBm	DN FUNCTION WIDTH	Sweep 2.133 ms (1001 pt
0.0	× 2.401 990 GHz	Y FUNCTION -2.125 dBm	DN FUNCTION WIDTH	Sweep 2.133 ms (1001 pt

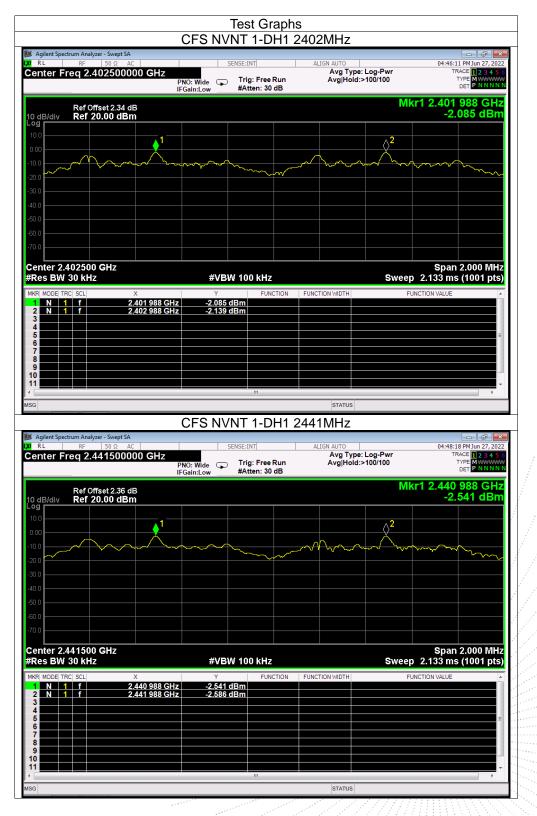


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enter Freq 2.4415000	AC DOO GHZ PNO: Wi IFGain:L	ide 🖵 Trig: Free Run	ALIGN AUTO Avg Type: Log-Po Avg Hold:>100/10	TRACE	1 2 3 4 5 M P N N N N
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KR MODE TRC SCL	X	Y FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
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Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A	AC	S NVNT 2-DH1	2480MHz	11:05:49 AM	un 27, 202
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A	Ac D00 GHz	SENSE:INT	2480MHz	11:05:49 AM	un 27, 202
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q A enter Freq 2.4795000 Ref Offset 2.4 dB	AC D <b>OO GHz</b> PNO: Wi IFGain:L	SENSE:INT	2480MHz	11:05:49 AM wr TRACE 0 TYPE DET Mkr1 2.478 99	UIII 27, 202 2 3 4 5 MWWWW P N N N N 4 GH
Agilent Spectrum Analyzer - Swept SA RL RF 50.0 A enter Freq 2.4795000 Ref Offset 2.4 dB dB/dtv Ref 20.00 dB1 9	AC D <b>OO GHz</b> PNO: Wi IFGain:L	SENSE:INT	2480MHz	11:05:49 AM wr Trace 0 Type DET	UIII 27, 202 2 3 4 5 MWWWW P N N N N 4 GH
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Agilent Spectrum Analyzer - Swept SA RL RF 50.2 A enter Freq 2.4795000 Ref Offset 2.4 dE dB/div Ref 20.00 dB/ 00 00 00	AC D <b>OO GHz</b> PNO: Wi IFGain:L	SENSE:INT	2480MHz	11:05:49 AM TRACE 0 TYPE DET Mkr1 2.478 99 -3.39	UIII 27, 202 2 3 4 5 MWWWW P N N N N 4 GH
Aglent Spectrum Analyzer - Sweet SA RL RF 50 Q A enter Freq 2.47950000 Ref Offset 2.4 dE rdB/div Ref 20.00 dBr	AC D <b>OO GHz</b> PNO: Wi IFGain:L	SENSE:INT	2480MHz	11:05:49 AM TRACE 0 TYPE DET Mkr1 2.478 99 -3.39	UIII 27, 202 2 3 4 5 MWWWW P N N N N 4 GH
Agilent Spectrum Analyzer - Sweet SA RL RF 50.2 A enter Freq 2.47950000 Ref Offset 2.4 dE 0 dB/div Ref 20.00 dBr 9 00 0 00 0 00 0 0	AC D <b>OO GHz</b> PNO: Wi IFGain:L	SENSE:INT	2480MHz	11:05:49 AM TRACE 0 TYPE DET Mkr1 2.478 99 -3.39	UIII 27, 202 2 3 4 5 MWWWW P N N N N 4 GH2
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Agilent Spectrum Analyzer - Swept RL RF 50 Ω		SENSE:INT	ALIGN AUTO		👝 🗗 🗾
enter Freq 2.47950		de 😱 Trig: Free Run	ALIGN AUTO Avg Type: Log- Avg Hold:>100/	Pwr TRA	PM Jun 27, 202 CE 1 2 3 4 5 PE M WWWW PET P N N N N
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RL RF 50 Ω	AC	SENSE:INT		04:52:23 Pwr TRA	PM Jun 27, 202
RL RF 50 Ω enter Freq 2.402500 Ref Offset 2.3 0 dB/div Ref 20.00 d	AC OOOO GHZ PNO: Wic IFGain:Lc	SENSE:INT	2402MHz	04:52:23 Pwr TRA 100 ۲۲ Mkr1 2.401	PM Jun 27, 202 CE 1 2 3 4 5 PE P NNNN ET P NNNN
RL         RF         50 Ω           enter Freq 2.402500         Ref Offset 2.3/           Ref Offset 2.3/         Ref 20.00 d           0 dB/div         Ref 20.00 d	AC OOOO GHZ PNO: Wic IFGain:Lc	SENSE:INT	2402MHz	04:52:23 Pwr TRA 100 ۲۲ Mkr1 2.401	PM Jun 27, 202 CE 1 2 3 4 5 PE P NNNN PET P NNNN
RL         RF         50 Ω           enter Freq 2.402500         Ref Offset 2.3/           D dB/div         Ref 20.00 d           0 0         0	AC OOOO GHZ PNO: Wic IFGain:Lc	SENSE:INT	2402MHz	04:52:23 Pwr TRA 100 ۲۲ Mkr1 2.401	PM Jun 27, 202 CE 1 2 3 4 5 PE P NNNN ET P NNNN
RL         RF         50 Ω           enter Freq 2.402500         Ref Offset 2.3           0 dB/div         Ref 20.00 d           0 0         0           0.0         0           0.0         0           0.0         0	AC OOOO GHZ PNO: Wic IFGain:Lc	SENSE:INT	ALIGN AUTO Avg Type: Log: Avg Hold:>100/	04:52:23 Pwr TRA 100 ۲۲ Mkr1 2.401	PM Jun 27, 202 CE 1 2 3 4 5 PE P NNNN ET P NNNN
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RL         RF         50 Ω           enter Freq 2.402500         Ref Offset 2.3           0 dB/div         Ref 20.00 d           0 d	AC AC PNO: Wic IFGain:Lo 4 dB Bm	SENSE:INT	ALIGN AUTO Avg Type: Log: Avg Held:>100/	04:52:23 Pwr TRA 100 TRA -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 Span 2 Sweep 2.133 ms	PMJun 27, 202 CE 12 3 4 5 ref PMJUN 27, 202 CE 12 3 4 5 ref PMJUN 28 6 GH2 13 dBm
RL         RF         50 Ω           enter Freq 2.402500         Ref Offset 2.3           0 dB/div         Ref 20.00 d           00	AC AC PNO: Wic IFGein:Lo 4 dB Bm 1 4 dB 4 4 dB 4 4 dB 4	SENSE:INT	ALIGN AUTO Avg Type: Log: Avg Held:>100/	04:52:23 Pwr TRA 100 TRA -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 Span 2 Sweep 2.133 ms	PMJun 27, 202 CE 12 3 4 5 ref PMJUN 27, 202 CE 12 3 4 5 ref PMJUN 28 6 GH2 13 dBm
enter Freq 2.402500 Ref Offset 2.3 Ref 20.00 d 9 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC PNO: Wic IFGein:Lo 4 dB Bm 1 4 dB 4 4 dB 4 4 dB 4	SENSE:INT	ALIGN AUTO Avg Type: Log: Avg Held:>100/	04:52:23 Pwr TRA 100 TRA -2.3 -2.3 -2.3 -2.3 -2.3 -2.3 Span 2 Sweep 2.133 ms	PMJun 27, 202 CE 12 3 4 5 ref PMJUN 27, 202 CE 12 3 4 5 ref PMJUN 28 6 GH2 13 dBm

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Agilent Spectrum Analyzer - Swept SA		2441MHz	
enter Freq 2.441500000 GHz	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:54:18 PM Jun 27, 202: TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N
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enter 2.441500 GHz Res BW 30 kHz	#VBW 100 kHz	Swee	Span 2.000 MHz p 2.133 ms (1001 pts)
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	CFS NVNT 2-DH1		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	CFS NVNT 2-DH1	2480MHz	04:58:03 PM Jun 27, 202
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC		2480MHz	04:58:03 PM Jun 27, 202
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.479500000 GHz Ref Offset 2.4 dB	SENSE:INT PNO: Wide Trig: Free Run	2480MHz ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:58:03 PM Jun 27, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN kr1 2.478 988 GH2
Agilent Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.479500000 GHz           Ref Offset 2.4 dB           0 dB/div         Ref 20.00 dBm	SENSE:INT PNO: Wide Trig: Free Run	2480MHz	04:58:03 PM Jun 27, 202: TRACE 2 3 4 5 TYPE MWWWW DET P NNNN kr1 2.478 988 GHz
Agilent Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.479500000 GHz           Ref Offset 2.4 dB           Ref Offset 2.4 dB           0         dB/div         Ref 20.00 dBm           0         0         1	SENSE:INT PNO: Wide Trig: Free Run	2480MHz ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:58:03 PM Jun 27, 202: TRACE 2 3 4 5 TYPE MWWWW DET P NNNN kr1 2.478 988 GHz
Agilent Spectrum Analyzer - Swept SA           RL         RF         50 Ω         AC           enter Freq 2.479500000 GHz           Ref Offset 2.4 dB           o dB/div         Ref Offset 2.4 dB           0         dB/div         To 0         1         1           0	SENSE:INT PNO: Wide Trig: Free Run	2480MHz	04:58:03 PM Jun 27, 202: TRACE 2 3 4 5 TYPE MWWWW DET P NNNN kr1 2.478 988 GHz
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.479500000 GHz Ref Offset 2.4 dB 0 dB/div Ref 20.00 dBm	SENSE:INT PNO: Wide Trig: Free Run	2480MHz	04:58:03 PM Jun 27, 202: TRACE 2 3 4 5 TYPE MWWWW DET P NNNN kr1 2.478 988 GHz
RL         RF         S0 Q         AC           enter Freq 2.479500000 GHz           enter Freq 2.479500000 GHz           O           Ref Offset 2.4 dB           o dB/div           Ref Offset 2.4 dB           o dB/div           O           0	SENSE:INT PNO: Wide Trig: Free Run	2480MHz	04:58:03 PM Jun 27, 202 TRACE <b>12 23 45</b> TVPE <b>12 34 5</b> TVPE <b>12 34 5</b> TVPE <b>12 34 5</b> <b>12 34 5</b> <b>12 34 5</b> <b>13 7</b> <b>14 7</b> <b>15 7</b>
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.479500000 GHz Ref Offset 2.4 dB 0 dB/div Ref 20.00 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9	SENSE:INT PNO: Wide Trig: Free Run	2480MHz	04:58:03 PM Jun 27, 202: TRACE 2 3 4 5 TYPE MWWWW DET P NNNN kr1 2.478 988 GHz
Agilent Spectrum Analyzer - Swept SA         RL       RF       50 Ω       AC         enter Freq 2.479500000 GHz         B       G       B       G         B       G       G       G       G         B       G       G       G       G         B       G       G       G       G       G         B       G       G       G       G       G         B       G       G       G       G       G       G         B       G	PNO: Wide IFGein:Low Trig: Free Run #Atten: 30 dB	2480MHz	04:58:03 PM Jun 27, 202 TRACE 11 2.3 4.5 TYPE WINNIN kr1 2.478 988 GH2 -2.982 dBm -2.982 dBm -2.982 dBm -2.982 dBm
Agilent Spectrum Analyzer - Swept SA         RL       RF       50 Ω       AC         enter Freq 2.479500000 GHz         0       B       AB         0       B       AB         0       B       AB         0       0       AB         0       0       AC         0       <	SENSE:INT PNO: Wide Trig: Free Run	2480MHz	04:58:03 PM Jun 27, 202: TRACE 2 3 4 5 TYPE MWWWW DET P NNNN kr1 2.478 988 GHz
Agilent Spectrum Analyzer - Swept SA         RL       RF       S0 Ω       AC         enter Freq 2.479500000 GHz         O       AC         Ref Offset 2.4 dB         O dB/div       Ref Offset 2.4 dB         O dB/div       Ref Offset 2.4 dB         0 <t< td=""><td>SENSE:INT         PNO: Wide         IFGain:Low         Trig: Free Run         #Atten: 30 dB         #VBW 100 kHz         #VBW 100 kHz         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION</td><td>2480MHz</td><td>04:58:03 PM Jun 27, 202 TRACE [] 2.3 4.3 TYPE [] 2.3 3 TYPE [] 2.3 4.3 TYPE [] 2.3 4</td></t<>	SENSE:INT         PNO: Wide         IFGain:Low         Trig: Free Run         #Atten: 30 dB         #VBW 100 kHz         #VBW 100 kHz         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION	2480MHz	04:58:03 PM Jun 27, 202 TRACE [] 2.3 4.3 TYPE [] 2.3 3 TYPE [] 2.3 4.3 TYPE [] 2.3 4
Agilent Spectrum Analyzer - Swept SA         RL       RF       S0 Ω       AC         enter Freq 2.479500000 GHz         G       Ref Offset 2.4 dB         0 dB/div       Ref 20.00 dBm       1         0 0       0       0       1         0 0       0       0       0       1         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0       0         0 0       0       0       0 <t< td=""><td>SENSE:INT         PNO: Wide         IFGain:Low         Trig: Free Run         #Atten: 30 dB         #VBW 100 kHz         #VBW 100 kHz         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION</td><td>2480MHz</td><td>04:58:03 PM Jun 27, 202 TRACE [] 2.3 4.3 TYPE [] 2.3 3 TYPE [] 2.3 4.3 TYPE [] 2.3 4</td></t<>	SENSE:INT         PNO: Wide         IFGain:Low         Trig: Free Run         #Atten: 30 dB         #VBW 100 kHz         #VBW 100 kHz         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION	2480MHz	04:58:03 PM Jun 27, 202 TRACE [] 2.3 4.3 TYPE [] 2.3 3 TYPE [] 2.3 4.3 TYPE [] 2.3 4
I Agilent Spectrum Analyzer - Swept SA         RL       RF       50 Ω       AC         enter Freq 2.479500000 GHz         0 dB/div       Ref Offset 2.4 dB         0 dB/div       Ref 20.00 dBm         9	SENSE:INT         PNO: Wide         IFGain:Low         Trig: Free Run         #Atten: 30 dB         #VBW 100 kHz         #VBW 100 kHz         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION	2480MHz	04:58:03 PM Jun 27, 202 TRACE [] 2.3 4.3 TYPE [] 2.3 3 TYPE [] 2.3 4.3 TYPE [] 2.3 4
Agilent Spectrum Analyzer - Swept SA         RL       RF       S0 Ω       AC         enter Freq 2.479500000 GHz         0       Bef Offset 2.4 dB         0 dB/div       Ref 20.00 dBm         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0         0       0       0       0         0       0       0       0       0         0       0       0       0       0         0       0       0       0       0         0       0       0       0       0         0       0       0       0       0       0         0       0       0       0       0       0         0       0       0       0       0       0         0       0       0       0       0       0         0       0       1       1       2.478 988 Gł      <	SENSE:INT         PNO: Wide         IFGain:Low         Trig: Free Run         #Atten: 30 dB         #VBW 100 kHz         #VBW 100 kHz         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION         Y         FUNCTION	2480MHz	04:58:03 PM Jun 27, 202 TRACE [] 2.3 4.3 TYPE [] 2.3 3 TYPE [] 2.3 4.3 TYPE [] 2.3 4



## 13. Number Of Hopping Frequency

### 13.1 Block Diagram Of Test Setup



#### 13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

#### 13.3 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 the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

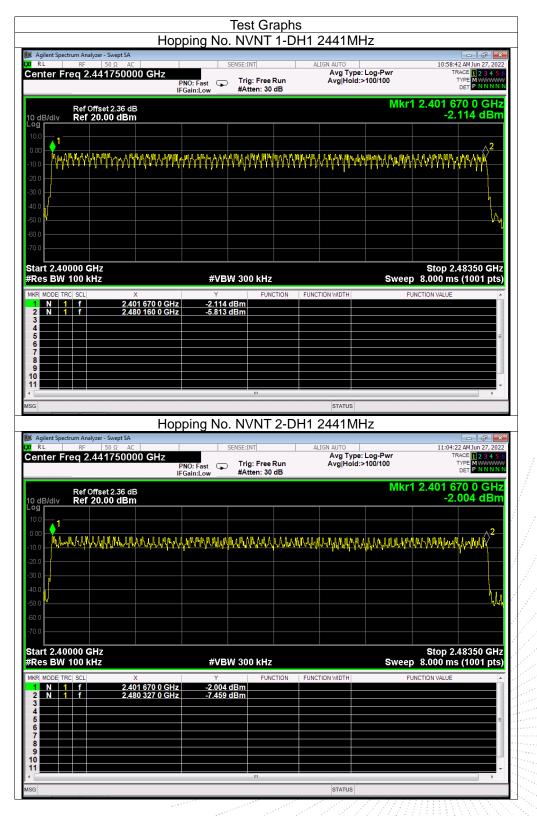
#### 13.4 Test Result

Data	Condition	Mode	Hopping Number	Limit	Verdict
Left	NVNT	1-DH1	79	15	Pass
Leit	NVNT	2-DH1	79	15	Pass
Diaht	NVNT	1-DH1	79	15	Pass
Right	NVNT	2-DH1	79	15	Pass

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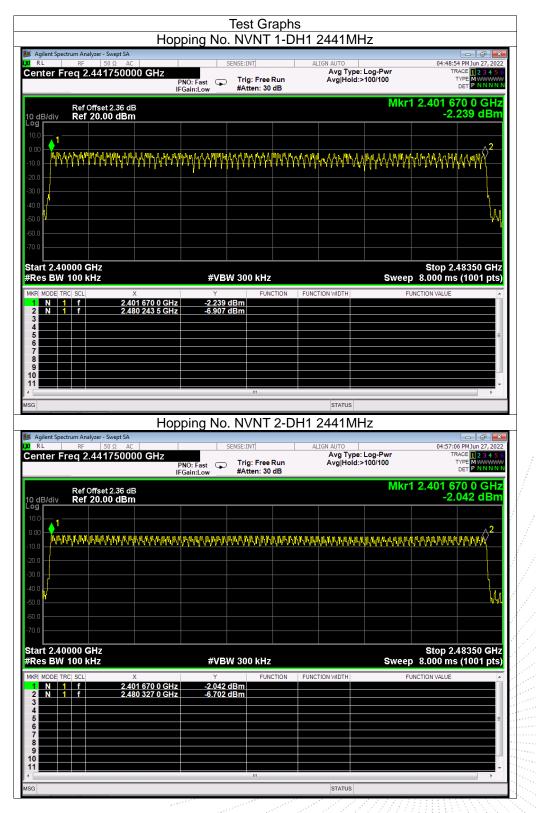


Left





Right





## 14. Dwell Time

### 14.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

#### 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).

### 14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

DH5:1600/79/6*0.4*79*(MkrDelta)/1000	
DH3:1600/79/4*0.4*79*(MkrDelta)/1000	
DH1:1600/79/2*0.4*79*(MkrDelta)/1000	
Remark: Mkr Delta is once pulse time.	



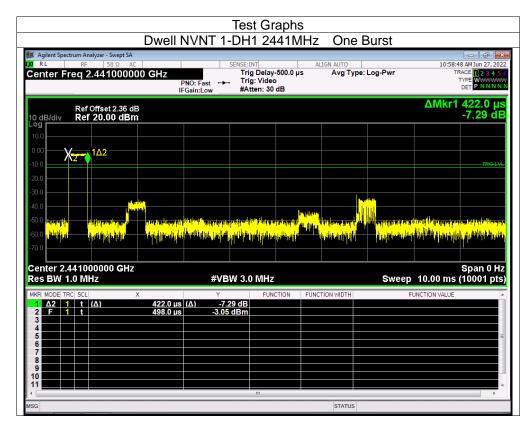
Data	Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
	NVNT	1-DH1	2441	0.422	132.930	400	Pass
	NVNT	1-DH3	2441	1.678	273.514	400	Pass
1	NVNT	1-DH5	2441	2.921	300.863	400	Pass
Left	NVNT	2-DH1	2441	0.432	136.512	400	Pass
	NVNT	2-DH3	2441	1.683	269.280	400	Pass
	NVNT	2-DH5	2441	2.932	319.588	400	Pass
	NVNT	1-DH1	2441	0.422	132.086	400	Pass
	NVNT	1-DH3	2441	1.673	269.353	400	Pass
Dialat	NVNT	1-DH5	2441	2.925	301.275	400	Pass
Right	NVNT	2-DH1	2441	0.432	135.648	400	Pass
	NVNT	2-DH3	2441	1.682	274.166	400	Pass
	NVNT	2-DH5	2441	2.931	337.065	400	Pass

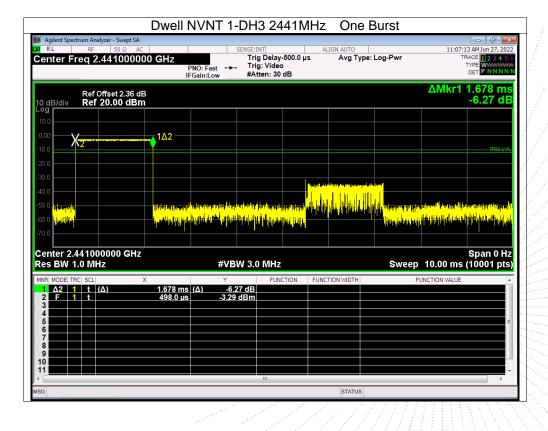
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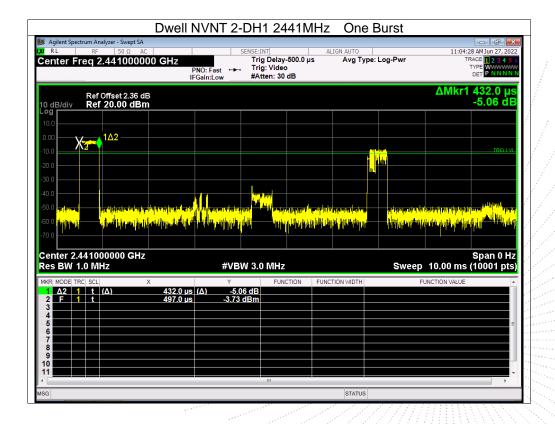
Left







Dv	well NVNT 1-DH	l5 2441MHz	One Burst	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	SENSE:	YAUT A		
RL RF 50 Ω AC enter Freq 2.441000000 Gł	Hz Tri PNO East ↔ Tri	ig Delay-500.0 μs ig: Video tten: 30 dB	Avg Type: Log-Pwr	11:11:23 AM Jun 27, 20 TRACE 1 2 3 4 TYPE WWWW DET P N N N
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				i KiGʻL
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0.0 411444 0.0 44444 enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRCI SCL X	#VBW 3.0	O MHZ	itenti, bijetno iteletion na provinske p	<b>ngh Hanna an Anghan</b> Anghan Anghan Span 0 H
0.0         μμμμ           0.0         μμμμ           0.0         μμμμ           enter 2.441000000 GHz           es BW 1.0 MHz           RR         MOBITRC SCL           2         F           4         t           4         F           4         t	#VBW 3.1	O MHZ	Swe	Span 0 H 10.00 ms (10001 pt
0.0 μη ήγτ 0.0 μη ή ή enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRCI SCL × 1 Δ2 1 t (Δ) 2.4 2 F 1 t 4.4 3 4 4 4 4	#VBW 3.1 21 ms (Δ) 2.71 dB	O MHZ	Swe	Span 0 H 10.00 ms (10001 pt
0.0         μμμμμ           0.0         μμμμ           enter 2.441000000 GHz           es BW 1.0 MHz           KR         MODE TRC SCL           2         F         1           4         4           5         6	#VBW 3.1 21 ms (Δ) 2.71 dB	O MHZ	Swe	Span 0 H 10.00 ms (10001 pt
0.0         μμμμμ           enter 2.441000000 GHz           es BW 1.0 MHz           KR MODE TRC SCL         X           1 A2 1 t         (Δ)         2.5           5         4         4           6         7         8	#VBW 3.1 21 ms (Δ) 2.71 dB	O MHZ	Swe	Span 0 H 10.00 ms (10001 pt
0.0 $t_{eff} + t_{eff}$ enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC  SCL  × 1 $\Delta 2$ 1 t ( $\Delta$ ) 2.9 2 F 1 t - 44 3 4 - 4 5 6 - 5 6 - 7 8 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	#VBW 3.1 21 ms (Δ) 2.71 dB	O MHZ	Swe	Span 0 H 10.00 ms (10001 pt
0.0         μη ψη           0.0         μμη ψη           enter 2.441000000 GHz           es BW 1.0 MHz           KR         MODE TRC SCL           2         F           1         Δ2           2         F           1         t           4           5           6           7	#VBW 3.1 21 ms (Δ) 2.71 dB	O MHZ	Swe	Span 0 H 10.00 ms (10001 pt

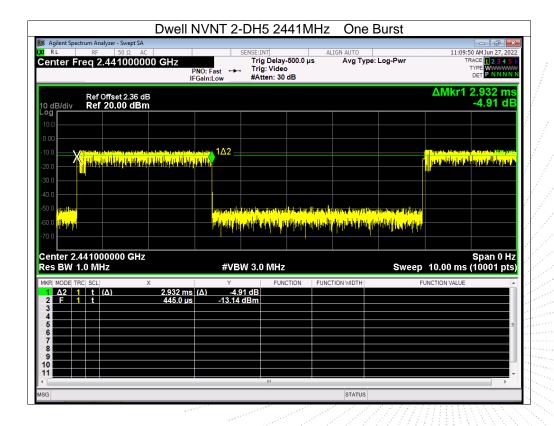


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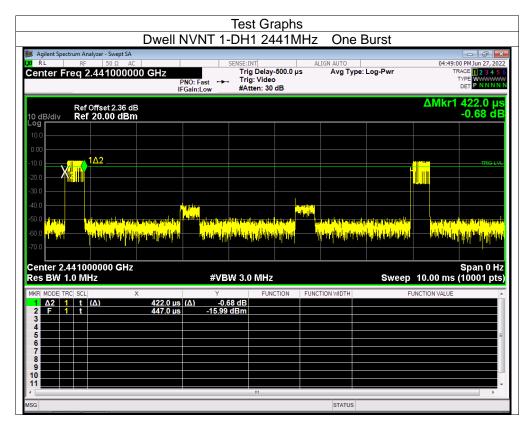
	Dwell NVNT 2	2-DH3 2441N	1Hz One	Burst	
Agilent Spectrum Analyzer - Swept SA     RL RF 50 Ω AC     Center Freq 2.44100000	0 GHz PNO: Fast ↔ IFGain:Low	SENSE:INT Trig Delay-500.0 µ ⊶ Trig: Video #Atten: 30 dB	ALIGN AUTO Is Avg Typ	e: Log-Pwr	11:08:55 AM Jun 27, 20 TRACE 1234 S TYPE WWWWW DET PNNN
Ref Offset 2.36 dB 0 dB/div <b>Ref 20.00 dBm</b>					ΔMkr1 1.683 m -1.75 dl
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enter 2.441000000 GHz es BW 1.0 MHz	#VI	BW 3.0 MHz		Sweep	Span 0 H 10.00 ms (10001 pt
KR         MODE         TRC         SCL         X           1         Δ2         1         t         (Δ)           2         F         1         t         (Δ)           3	1.683 ms (Δ) -1	FUNCTION .75 dB 6 dBm	FUNCTION WIDTH	FL	UNCTION VALUE
4 5 6 7					
8 9 0 1					
G		III	STATUS		

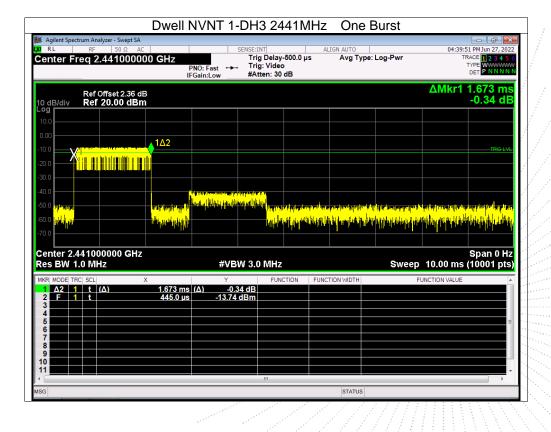


7



Right



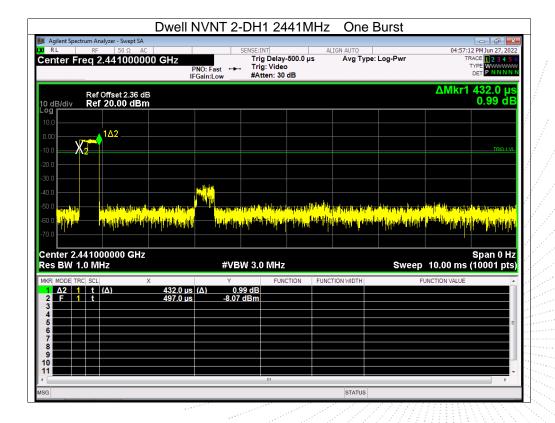


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	Dwell NVNT 1-DF	15 2441MHz	One Burst	t
Agilent Spectrum Analyzer - Swept SA         RL       RF       50 Ω       AC         enter Freq 2.44100000	00 GHz Tr PNO East ↔→ Tr	:INT AI rig Delay-500.0 μs rig: Video Atten: 30 dB	LIGN AUTO Avg Type: Log-Pw	04:40:40 PM Jun 27, 20: r TRACE 1 2 3 4 5 TYPE W DET PNNN
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				TRIG L'V
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Store         Implies           renter         2.441000000 GHz           ess BW         1.0 MHz           KRI         MODE           TRC         SCL           2         F           1         A2           3         4           5         -           6         -           7         -           8         -	#VBW 3. 2.925 ms (Δ) 7.15 dB	O MHZ	in potrologica de la construcción d Statut	андартынын (1999) Span 0 H weep 10.00 ms (10001 pt
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	Dwell N\	VNT 2-DH	3 2441N	1Hz One	e Burst	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000	PNO:	East +++ Tric	NT g Delay-500.0 μ g: Video ten: 30 dB	ALIGN AUTO Is Avg Ty	pe: Log-Pwr	04:41:49 PM Jun 27, TRACE 1 2 3 4 TYPE WWW DET P NN
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50.0 <mark>minutes</mark>	(Physical Academics) The sub-spectrum of the s		ista till an fritting der Frangen band	talaşılı filasiyilerin elileri İlakad (deylere vilat) dari b		lan hadrollan bara da b Na hadrollan hadrollan da bara d
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60.0         π hath           60.0         π hath           70.0         π           Center 2.441000000 GHz           Res BW 1.0 MHz           MKR MODE TRC SCL           1         Δ2           1         t           2         F           1         t           3         π		Y		FUNCTION WIDTH	Sweep	Span 0
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500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<sup>×</sup> 1.682 ms (Δ)	Y -1.70 dB	MHz		Sweep	Span 0 10.00 ms (10001 p

	Dwell IN	IVNT 2-DH	15 Z44 I IVI	Hz One	Burst	
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0.0         μμμμ           enter 2.441000000 GF           es BW 1.0 MHz           KR MODE TRC SCLI           1         Δ2           F         1           4           5           6	X 2.931 ms	#VBW 3.		(())))))))))))))))))))))))))))))))))))	Sweep	<mark>ин и на изани водини водини и на изани водини и на водини и на изани и на изани водини водини водини водини и н</mark> Span 0 10.00 ms (10001
enter 2.441000000 GF es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4 4	X 2.931 ms	#VBW 3.		(())))))))))))))))))))))))))))))))))))	Sweep	<mark>ин и на изани водини водини и на изани водини и на водини и на изани и на изани водини водини водини водини и н</mark> Span 0 10.00 ms (10001
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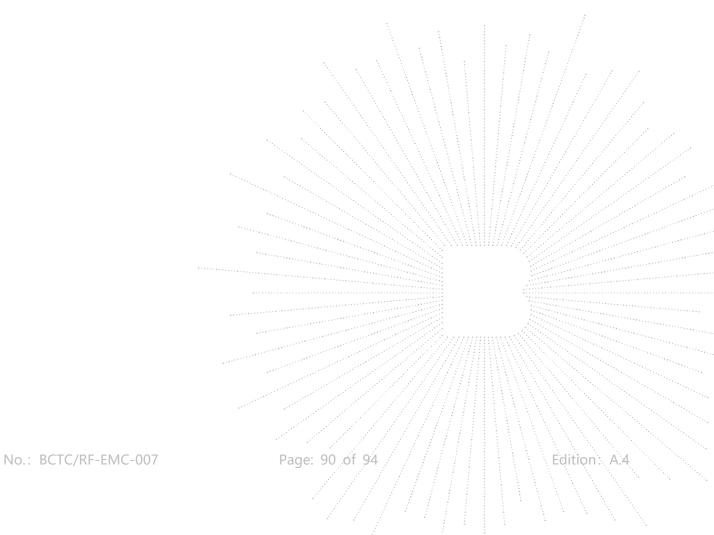
## 15. Antenna Requirement

#### 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 Chip antenna, fulfill the requirement of this section.





## 16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details



## 17. EUT Test Setup Photographs

Conducted emissions



**Radiated Measurement Photos** 



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Left



Right





# **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 stamp of laboratory.

4. The test report is invalid without signature of person(s) testing and authorizing.

5. The test process and test result is only related to the Unit Under Test.

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

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

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