

**11. DWELL TIME**

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second

11.1 Test Setup**11.2 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 = 0Hz;
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).

11.3 DEVIATION FROM STANDARD

No deviation.



11.4 Test Result

Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	Ant1	0.383	121.028	316	31600	400	Pass
1-DH3	2441	Ant1	1.638	278.46	170	31600	400	Pass
1-DH5	2441	Ant1	2.887	285.813	99	31600	400	Pass
2-DH1	2441	Ant1	0.388	122.996	317	31600	400	Pass
2-DH3	2441	Ant1	1.644	259.752	158	31600	400	Pass
2-DH5	2441	Ant1	2.891	286.209	99	31600	400	Pass
3-DH1	2441	Ant1	0.391	124.729	319	31600	400	Pass
3-DH3	2441	Ant1	1.64	252.56	154	31600	400	Pass
3-DH5	2441	Ant1	2.892	306.552	106	31600	400	Pass

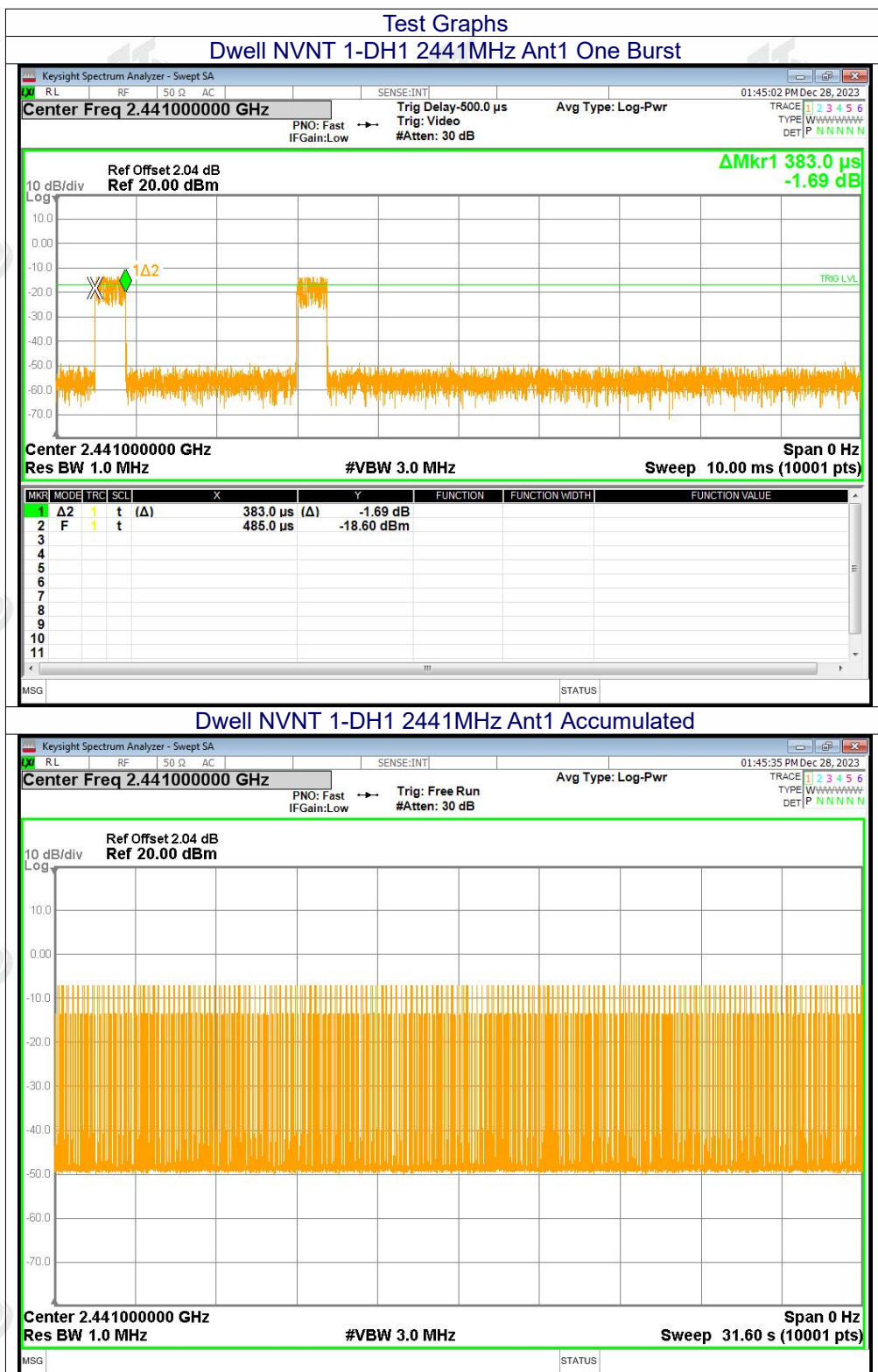
Remarks:

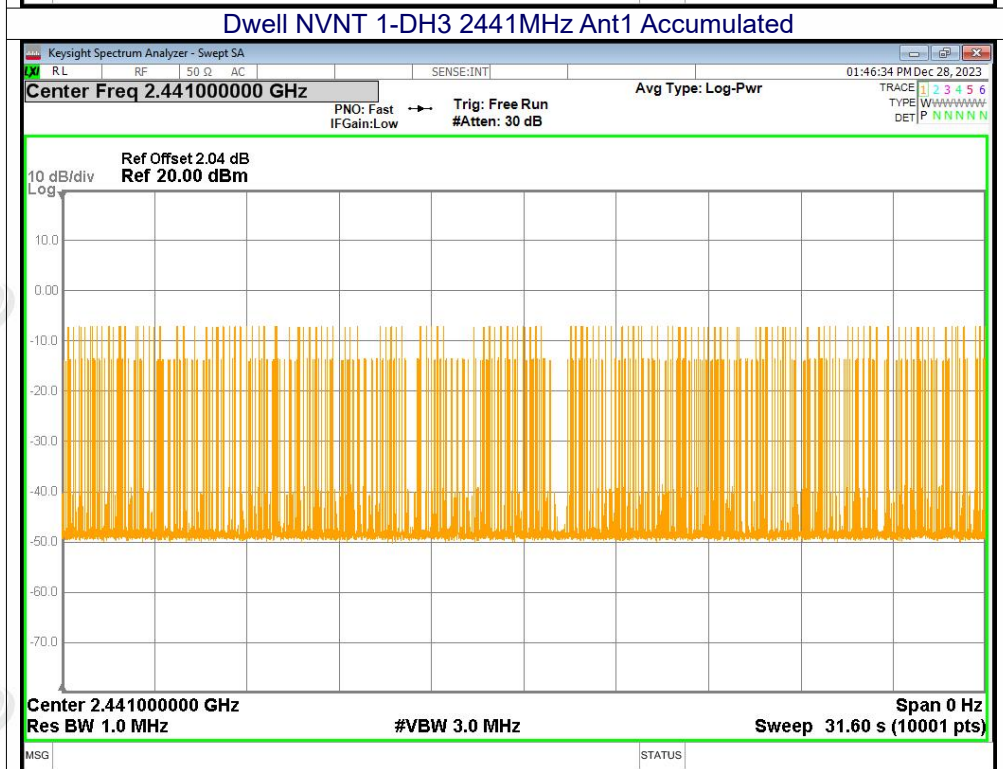
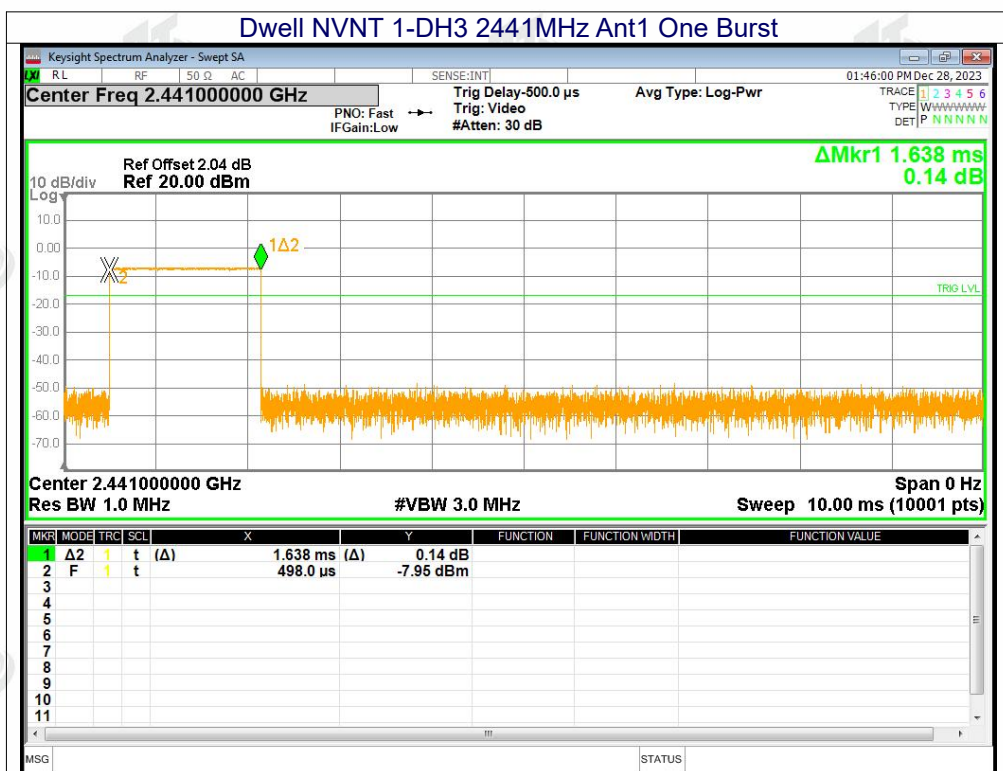
The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

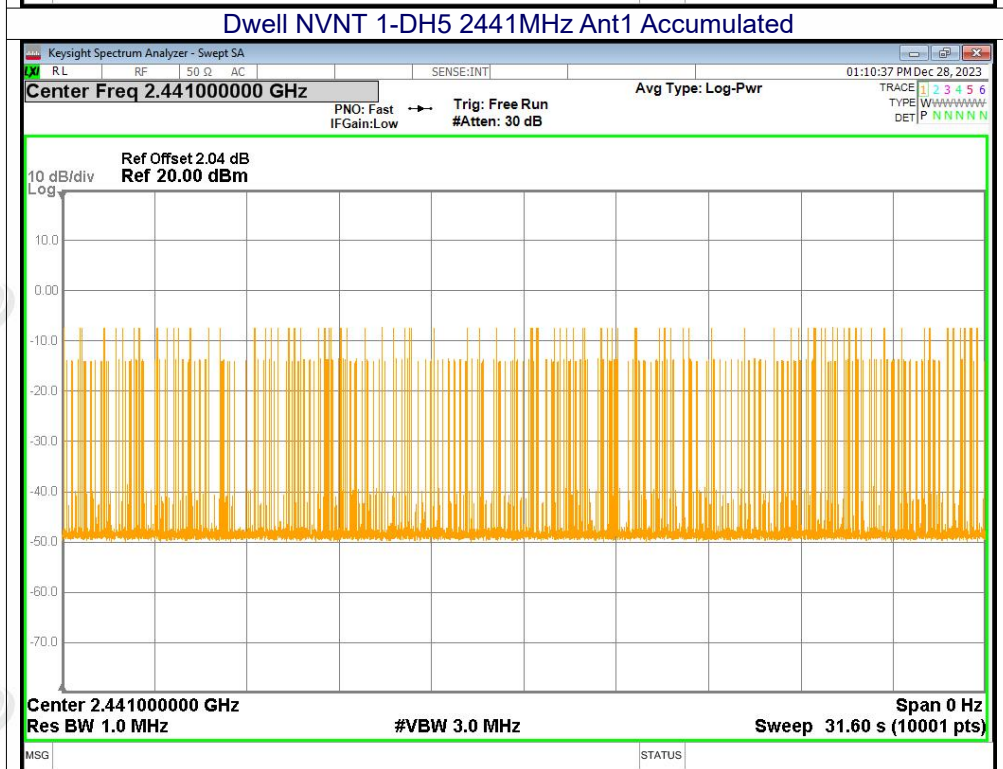
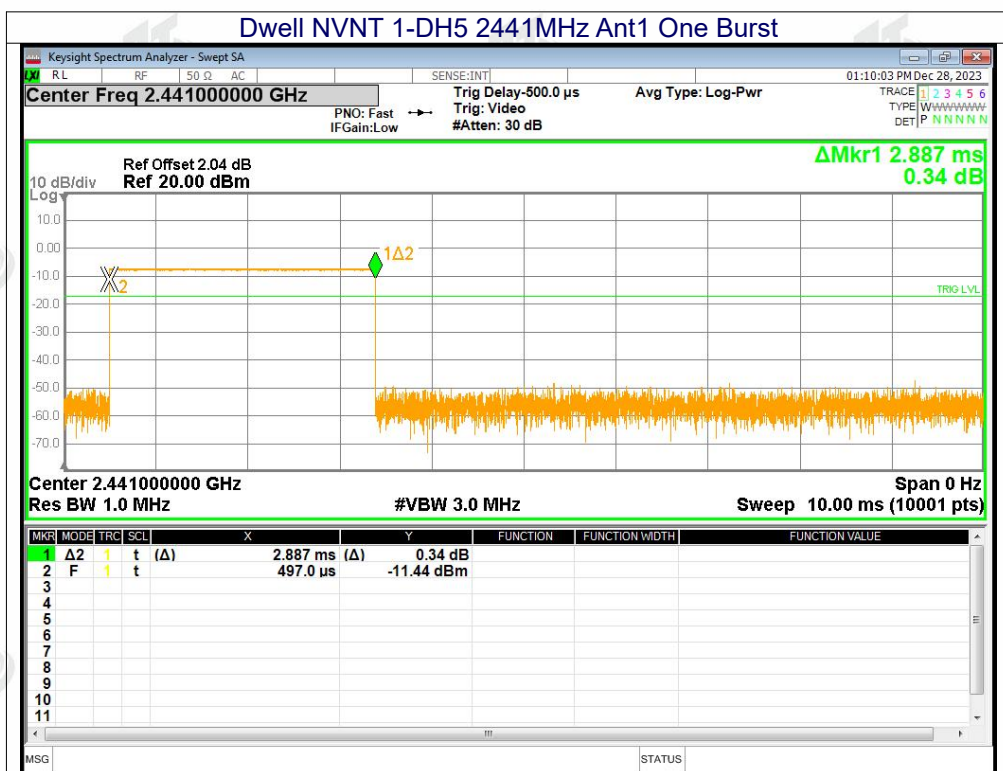
(1 / 2 / 3)-DH1: Dwell time (ms) = Pulse Time (ms) * $[1600 / (2 * 79)] * 31.6\text{s}$

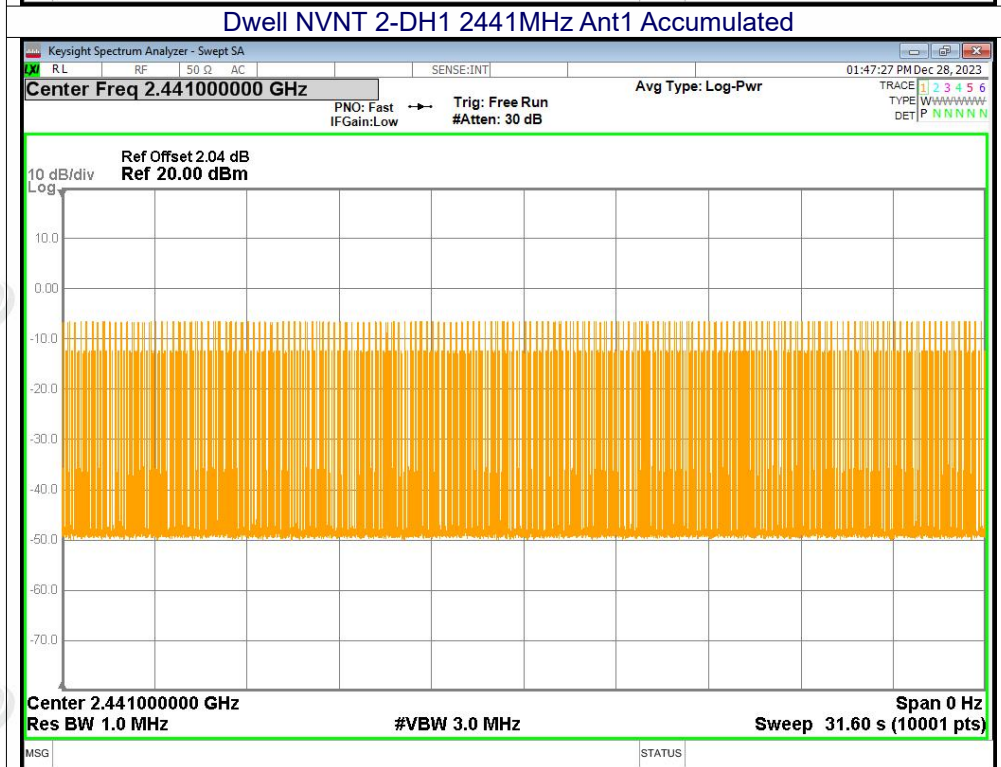
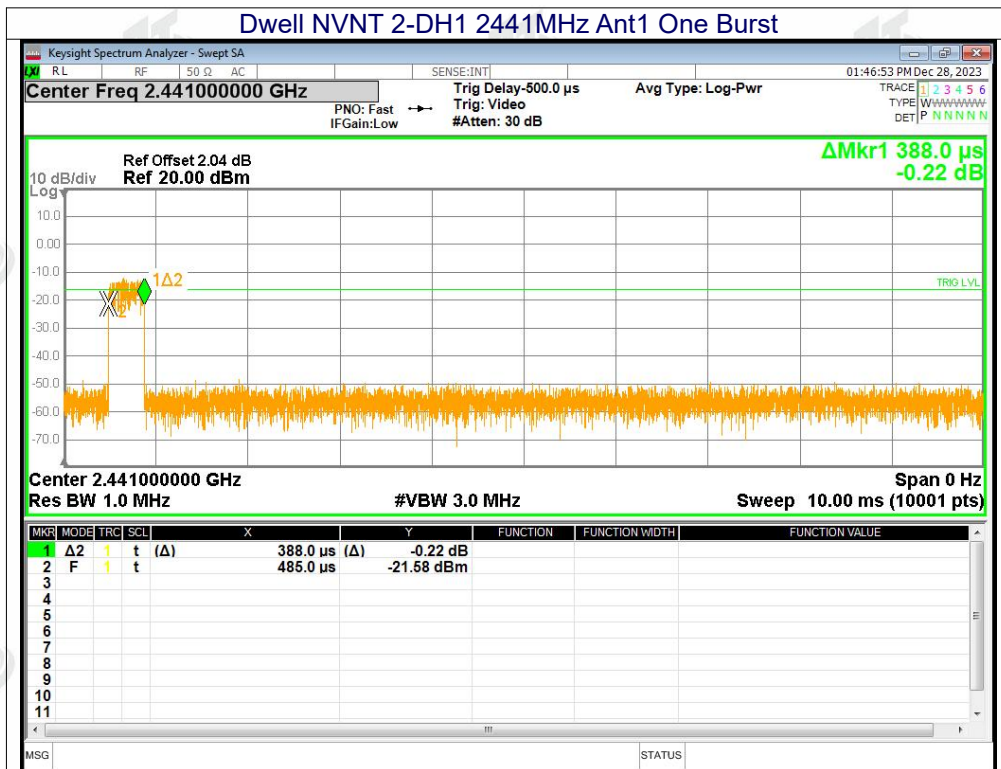
(1 / 2 / 3)-DH3: Dwell time (ms) = Pulse Time (ms) * $[1600 / (4 * 79)] * 31.6\text{s}$

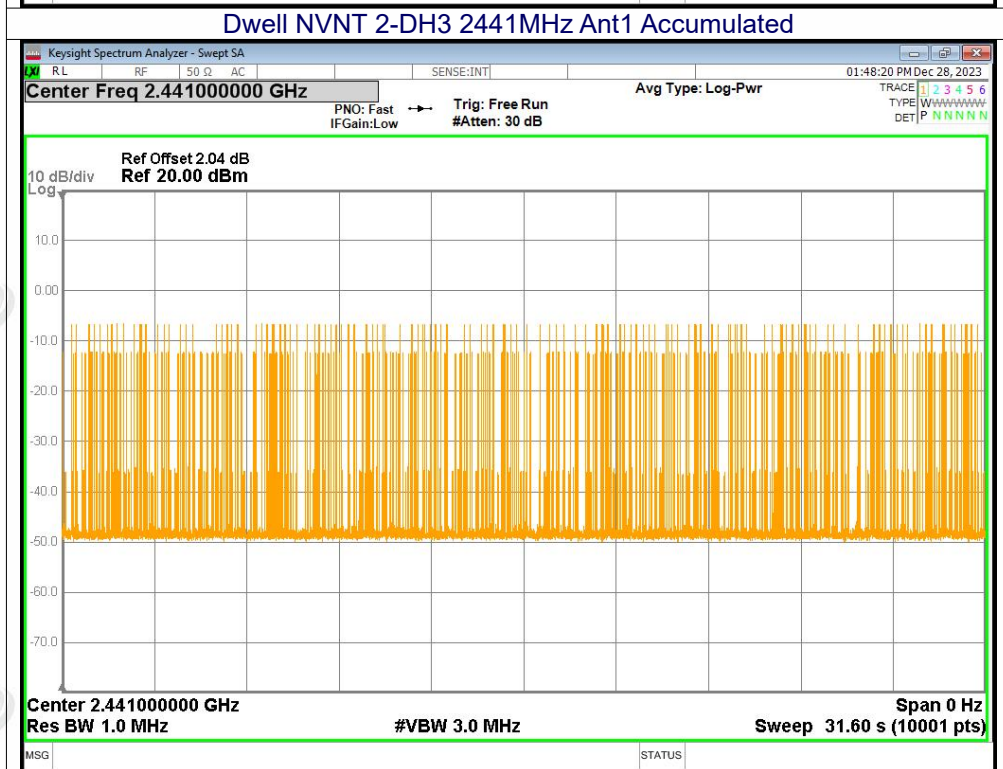
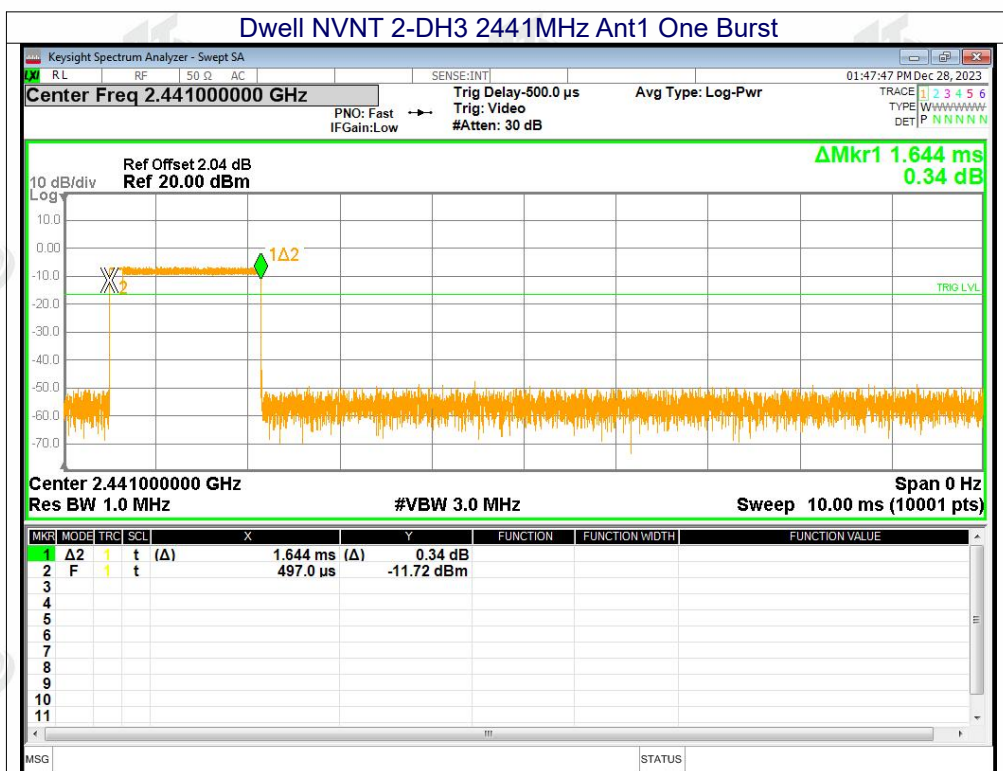
(1 / 2 / 3)-DH5: Dwell time (ms) = Pulse Time (ms) * $[1600 / (6 * 79)] * 31.6\text{s}$

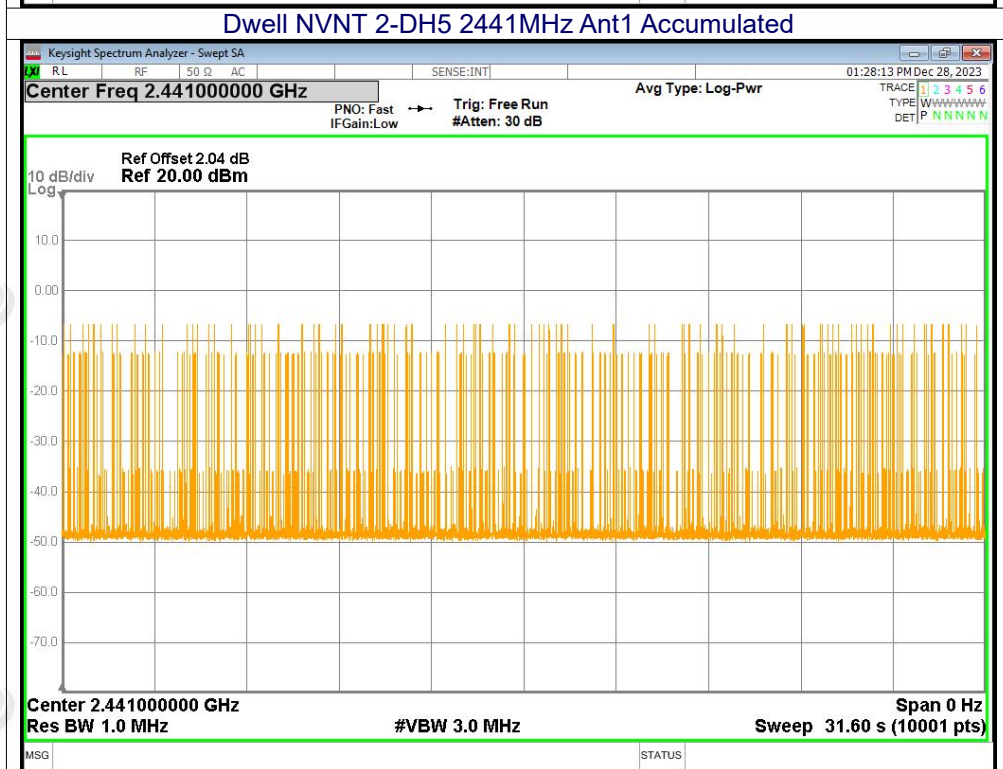
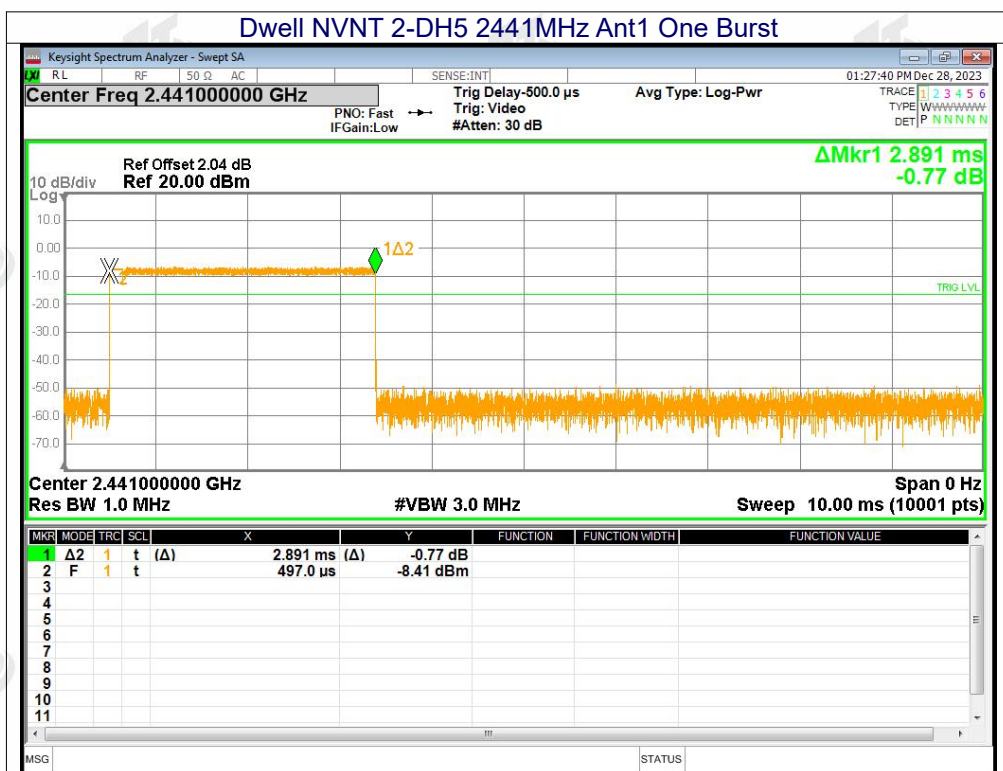


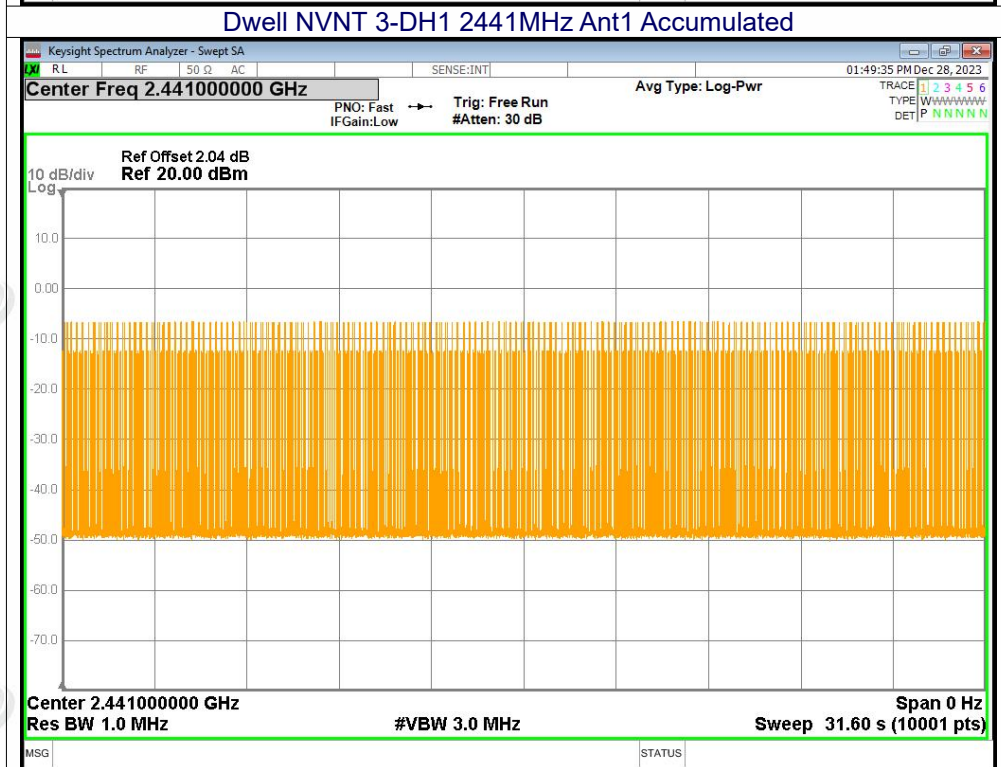
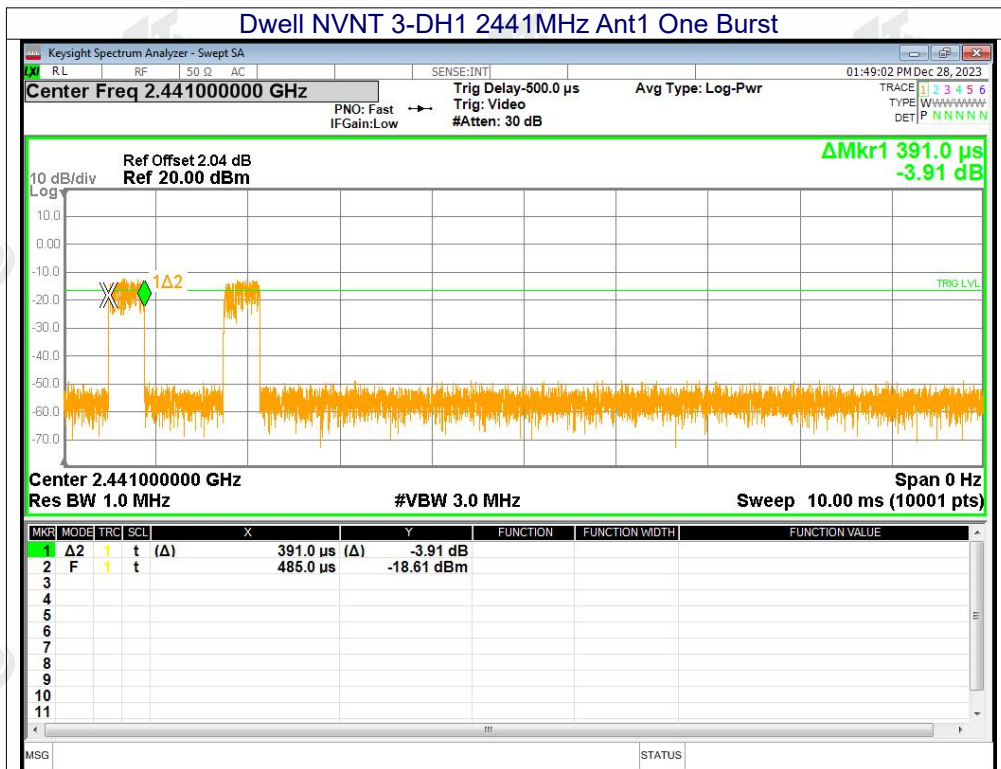


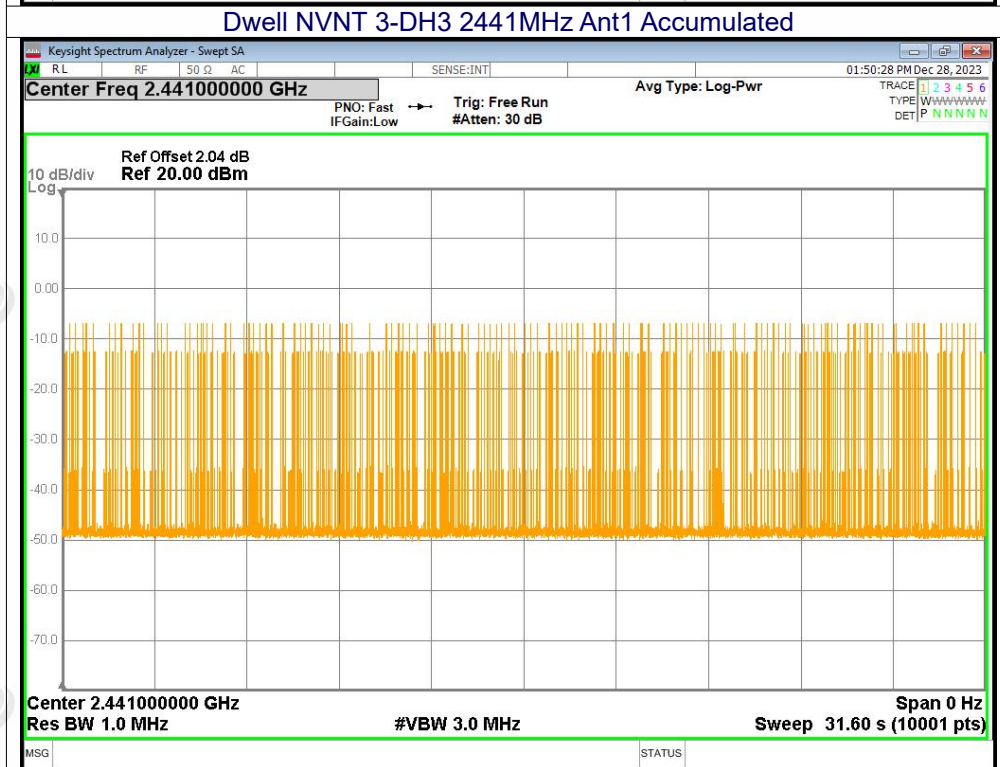
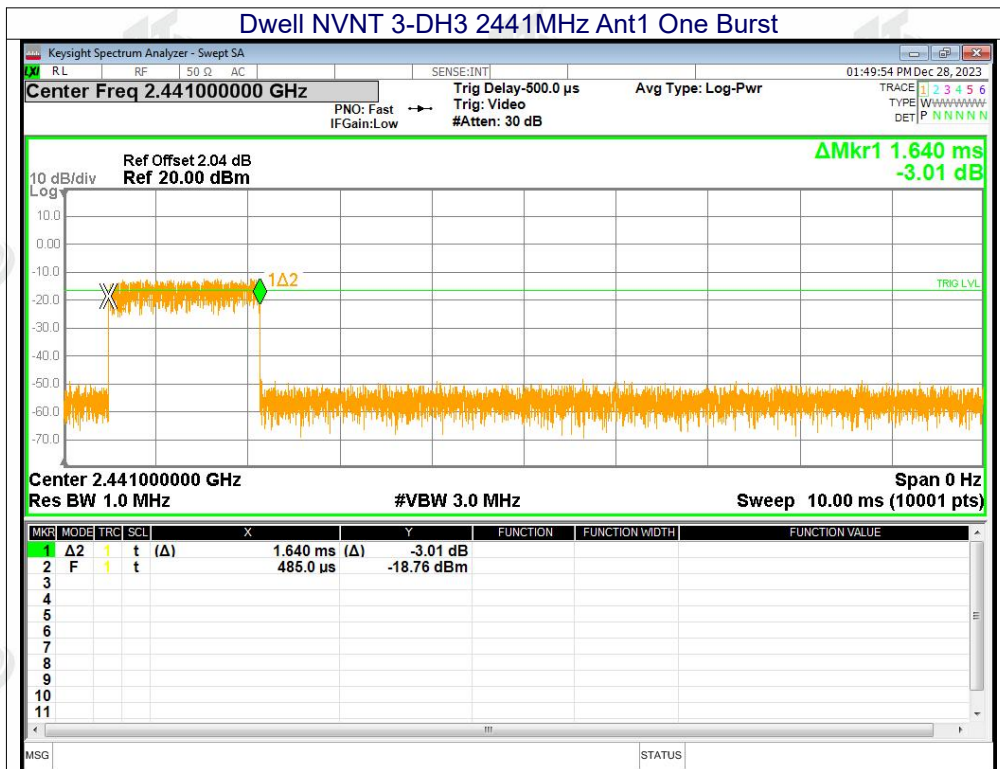


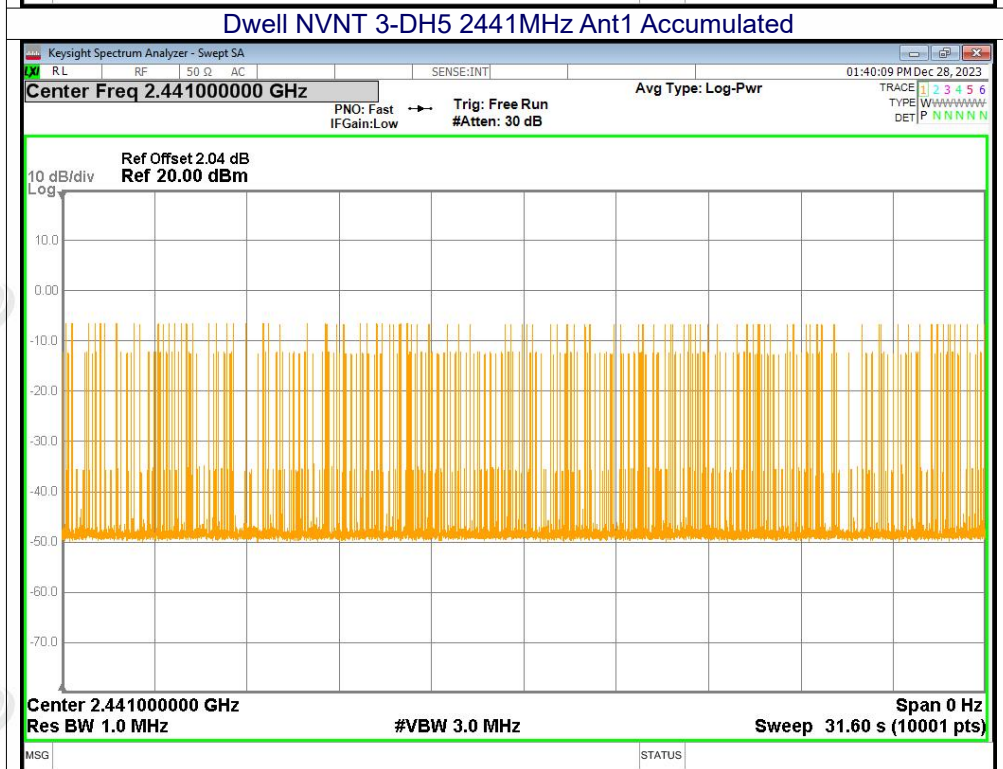
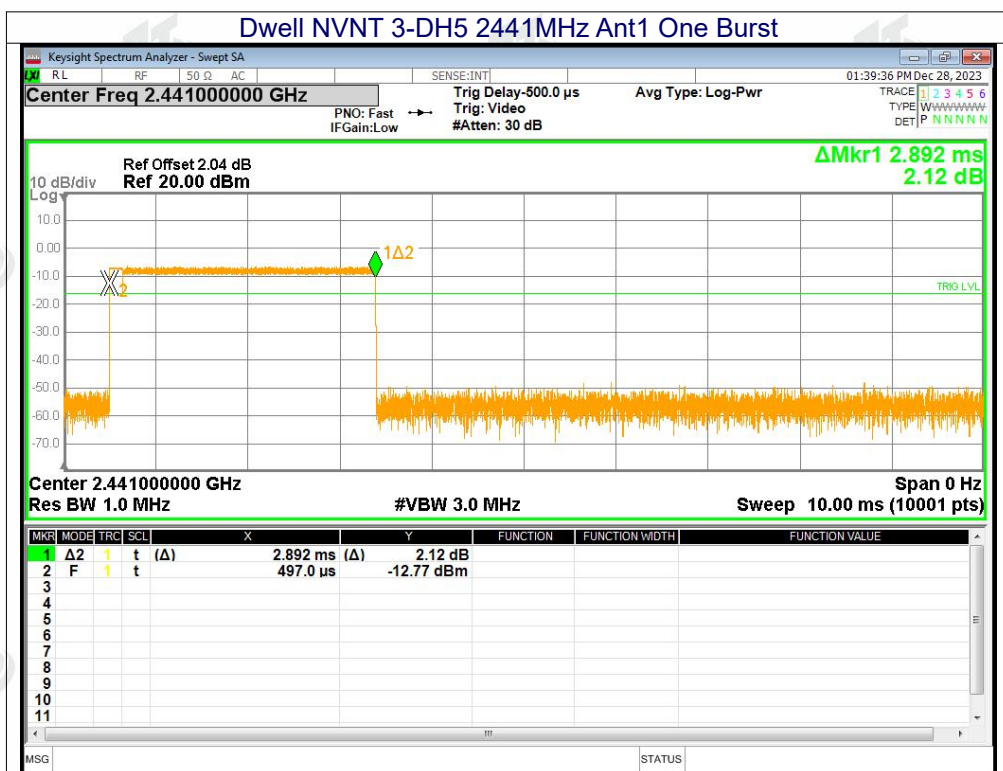












**12. Antenna Requirement**

Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
<p>15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
EUT Antenna:	
The antenna is PCB antenna, the best case gain of the antennas is 1.1 dBi, reference to the appendix II for details	



13. Test Setup Photo

Reference to the appendix I for details.

14. EUT Constructional Details

Reference to the appendix II for details.

***** END OF REPORT *****