

**CFR 47 FCC PART 15 SUBPART C**

**TEST REPORT**

*For*

**SmartSet Clock Radio**

**MODEL NUMBER: ER100301**

**Brand: EMERSON**

**REPORT NUMBER: E04A23070370F00302**

**ISSUE DATE: August 14, 2023**

**FCC ID:2ALCVER100301A**

*Prepared for*

**Emerson Radio Corp.**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
<u>V0</u>	<u>August 14, 2023</u>	<u>Initial Issue</u>	<u>Jok Yang</u>

## Appendix A Maximum Conducted Output Power

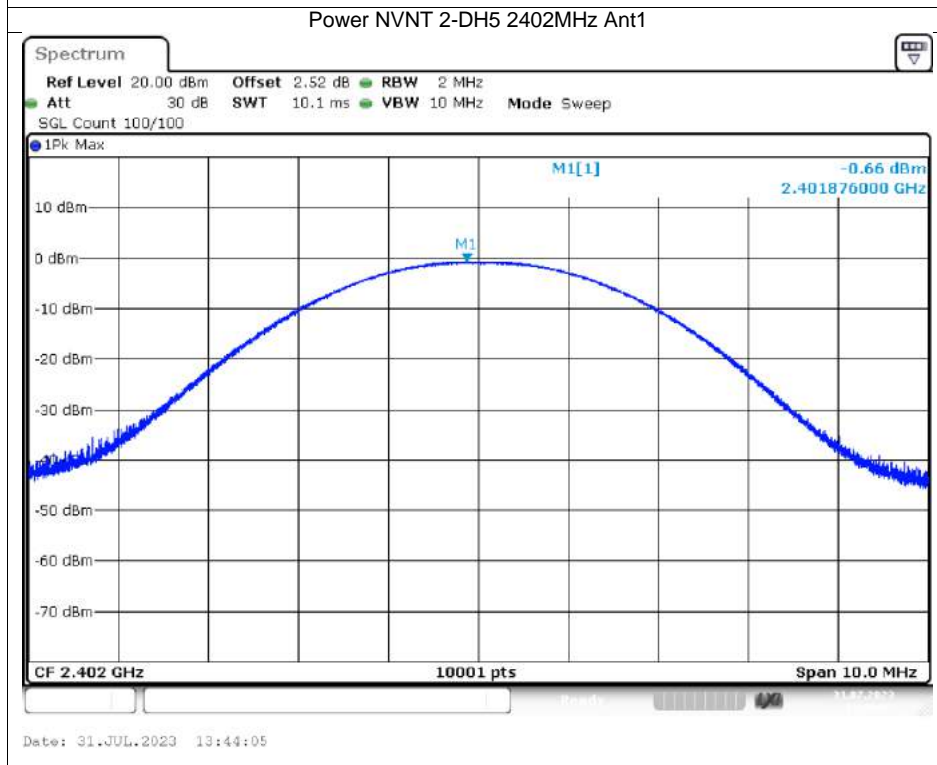
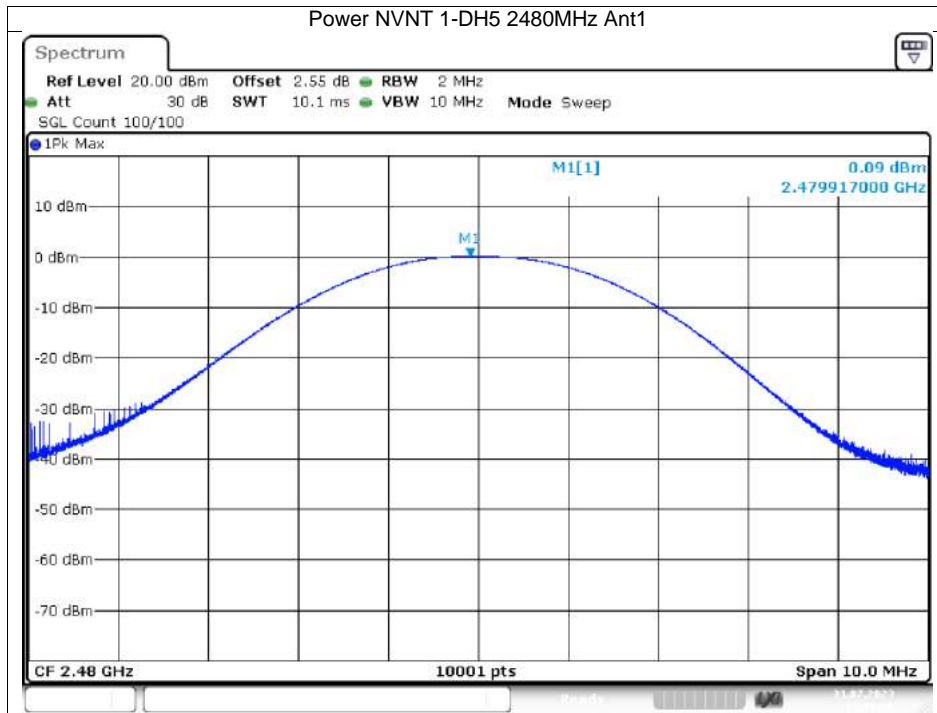
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.56	21	Pass
NVNT	1-DH5	2441	Ant1	-0.32	21	Pass
NVNT	1-DH5	2480	Ant1	0.09	21	Pass
NVNT	2-DH5	2402	Ant1	-0.66	21	Pass
NVNT	2-DH5	2441	Ant1	0.45	21	Pass
NVNT	2-DH5	2480	Ant1	0.79	21	Pass
NVNT	3-DH5	2402	Ant1	-0.23	21	Pass
NVNT	3-DH5	2441	Ant1	0.85	21	Pass
NVNT	3-DH5	2480	Ant1	1.11	21	Pass

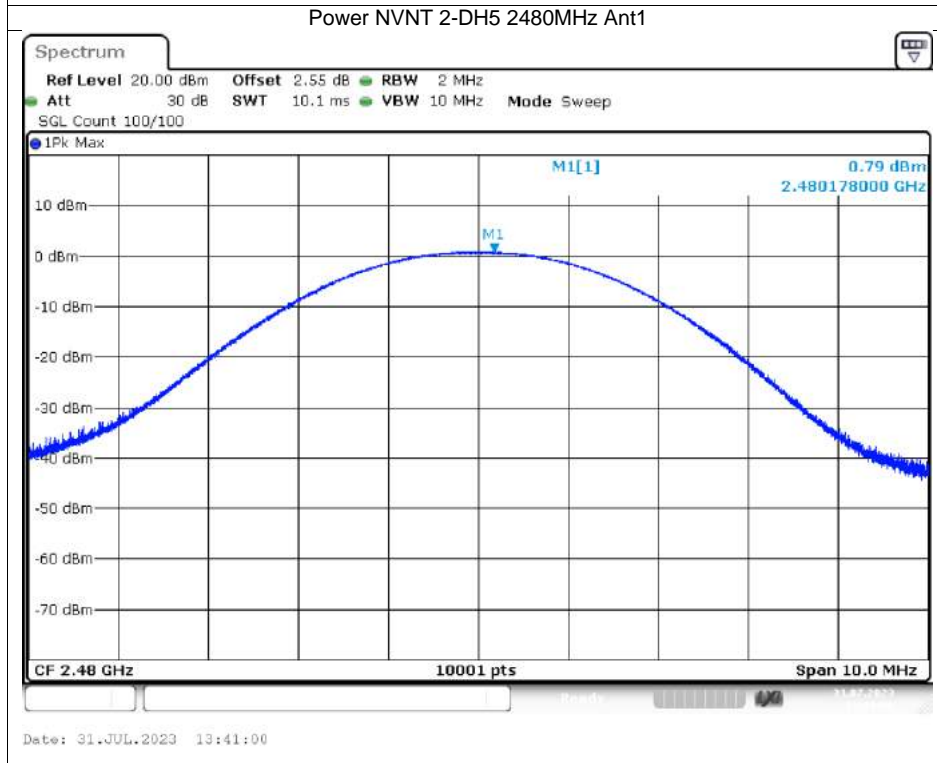
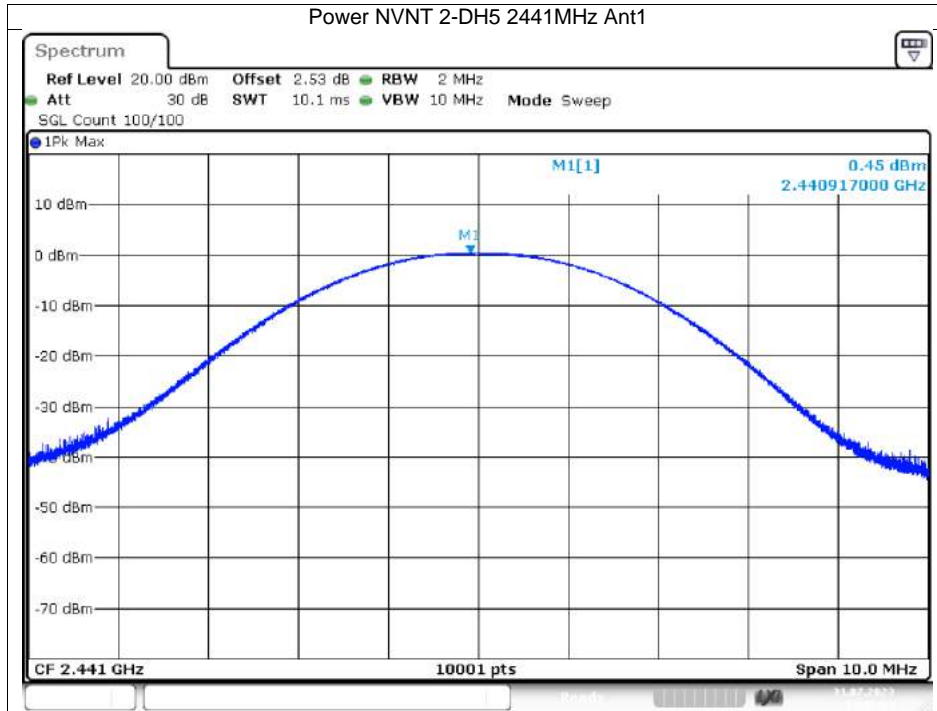


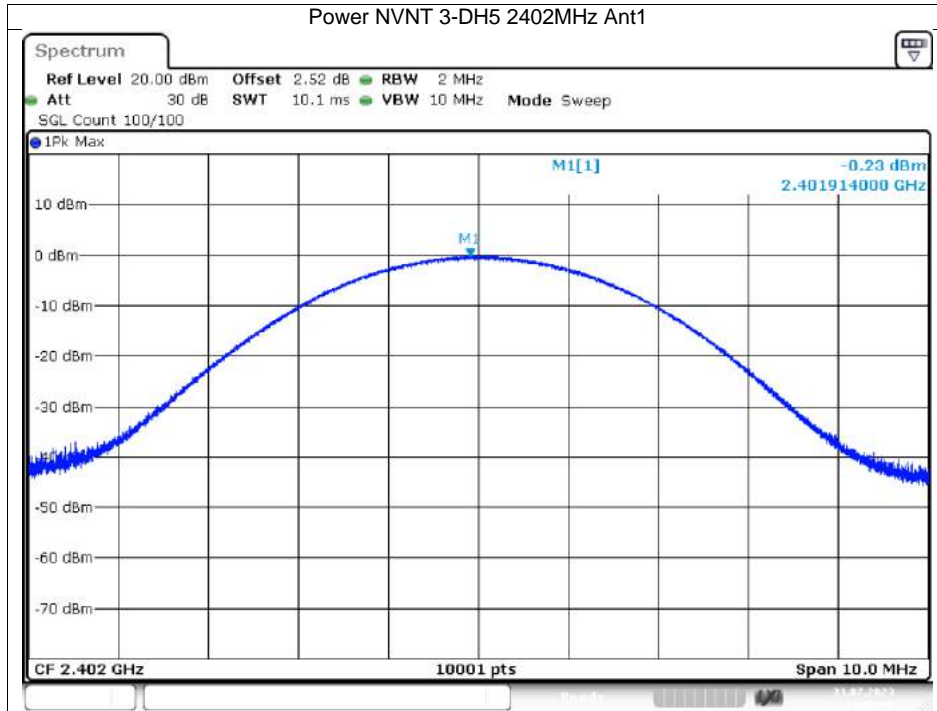
Date: 31.JUL.2023 13:35:28



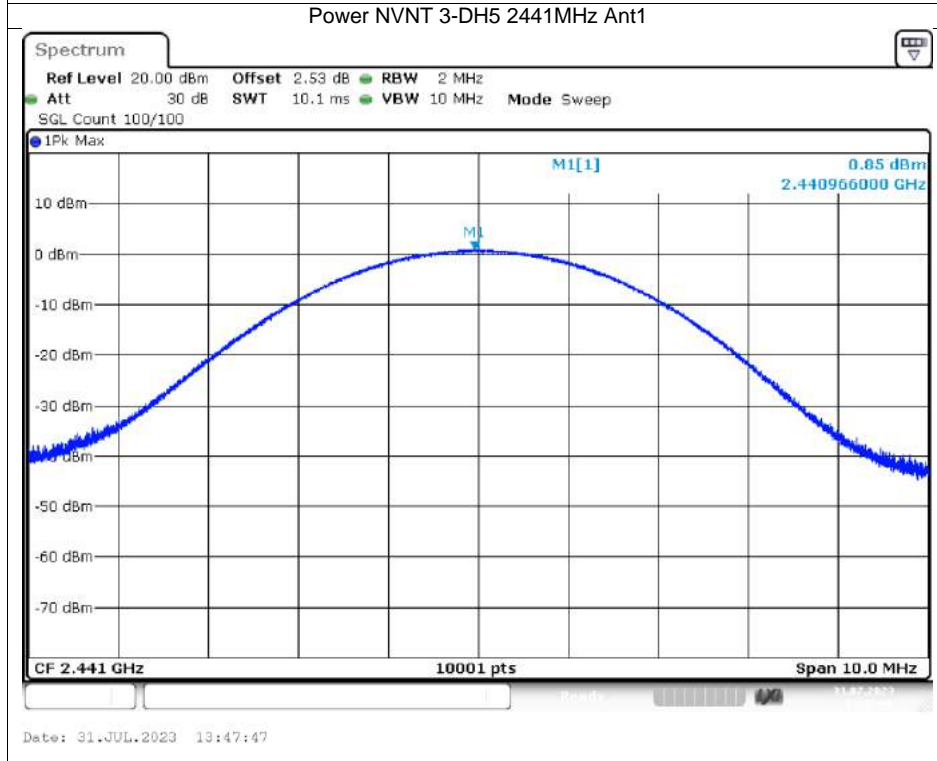
Date: 31.JUL.2023 13:37:36



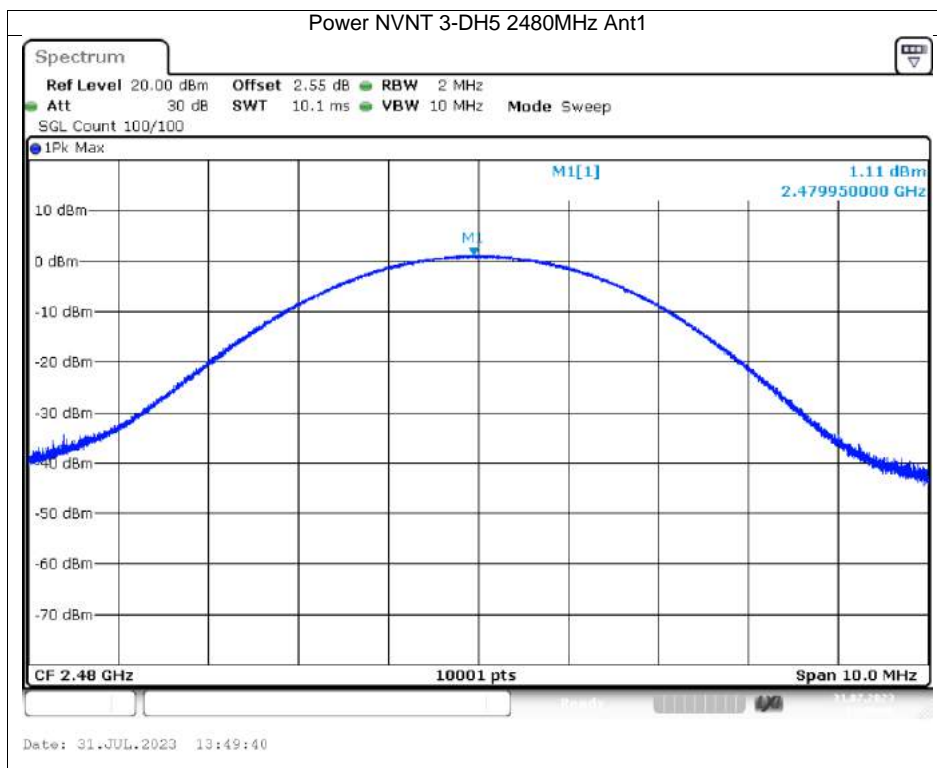




Date: 31.JUL.2023 13:45:48



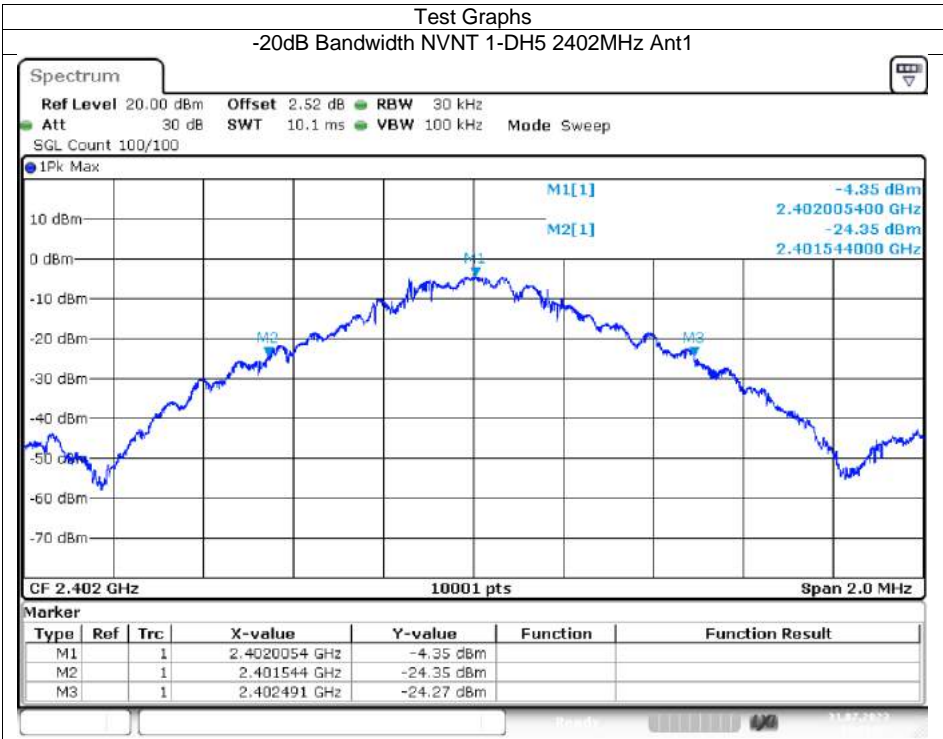
Date: 31.JUL.2023 13:47:47



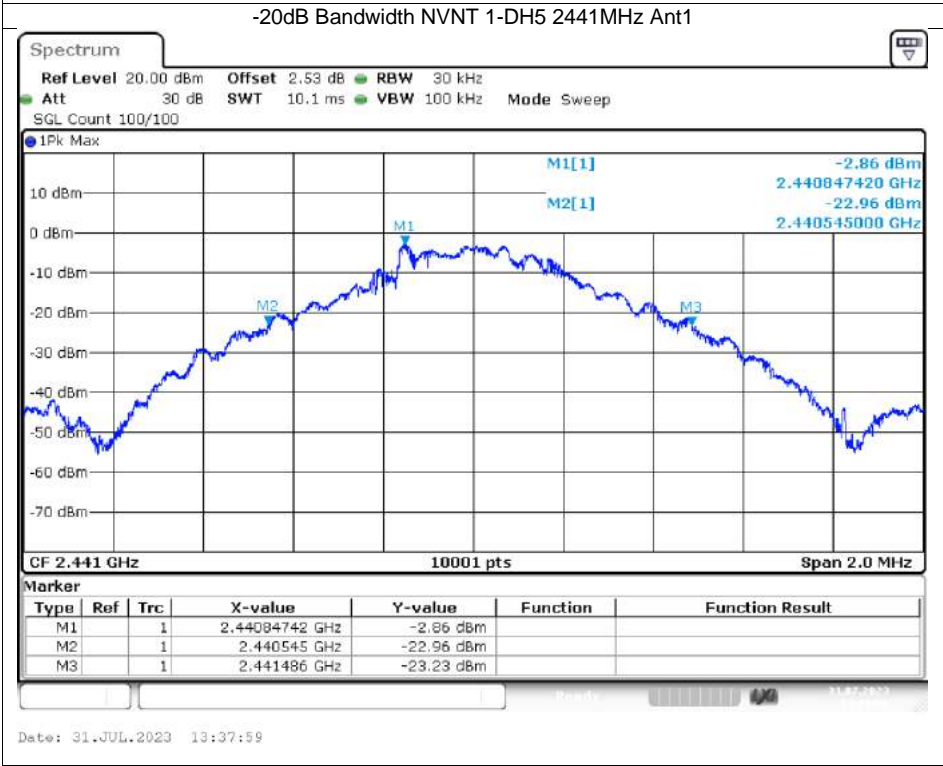


## Appendix B -20dB Bandwidth

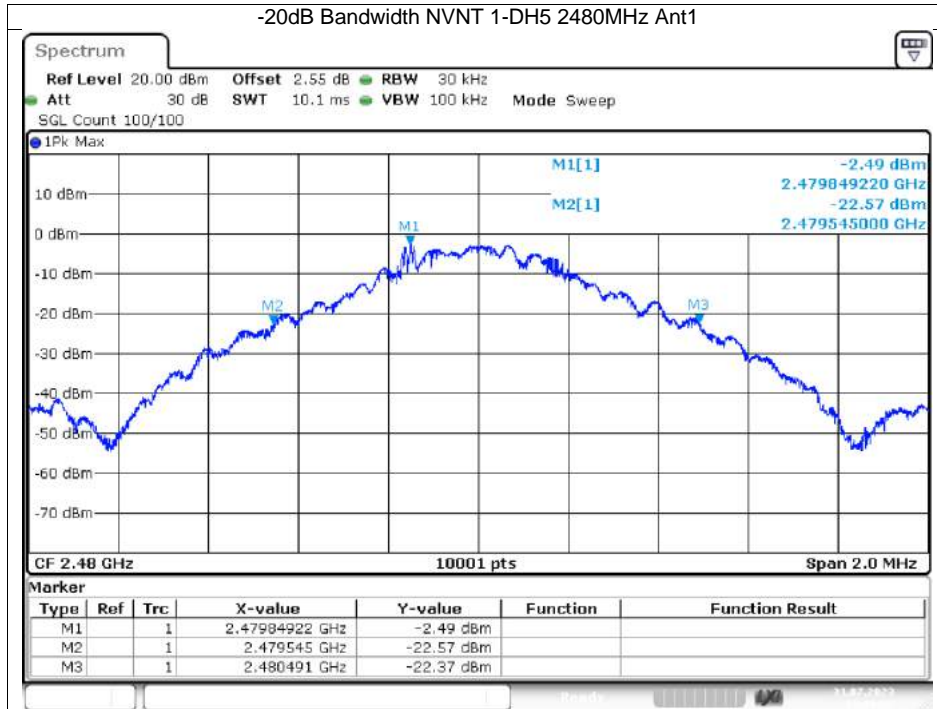
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)
NVNT	1-DH5	2402	Ant1	0.947
NVNT	1-DH5	2441	Ant1	0.941
NVNT	1-DH5	2480	Ant1	0.946
NVNT	2-DH5	2402	Ant1	1.282
NVNT	2-DH5	2441	Ant1	1.282
NVNT	2-DH5	2480	Ant1	1.309
NVNT	3-DH5	2402	Ant1	1.284
NVNT	3-DH5	2441	Ant1	1.289
NVNT	3-DH5	2480	Ant1	1.286



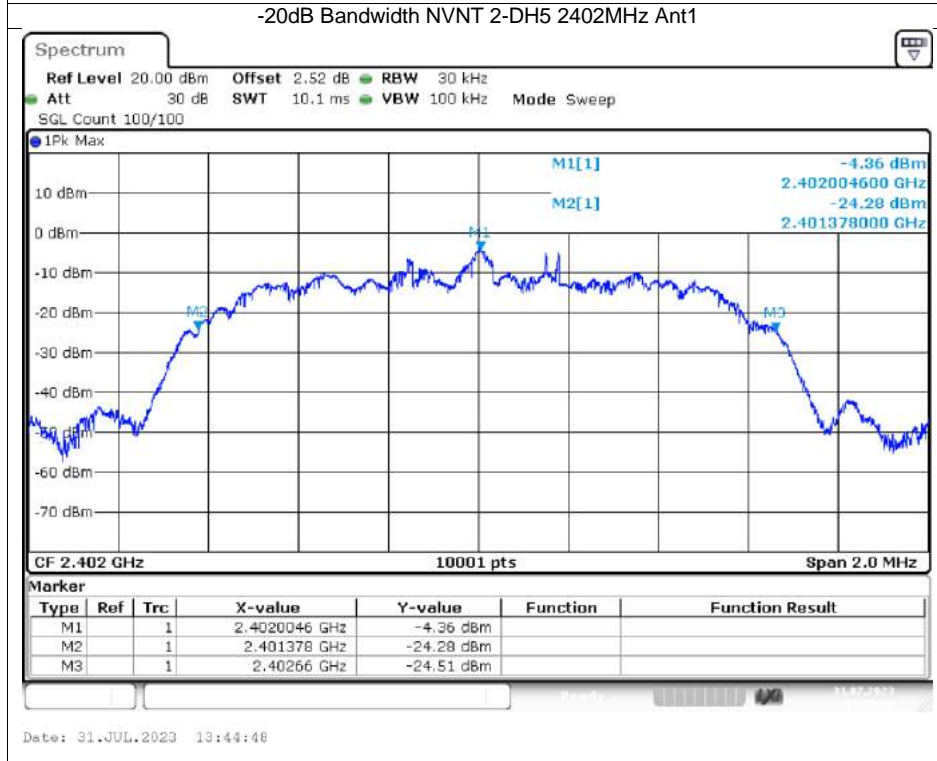
Date: 31.JUL.2023 13:35:55



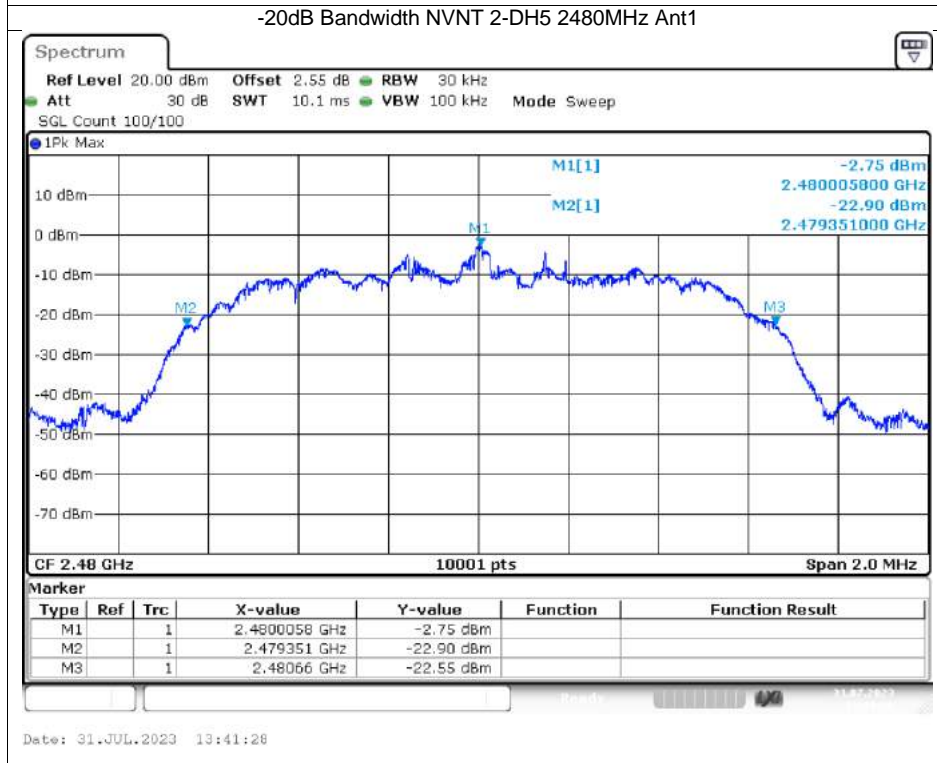
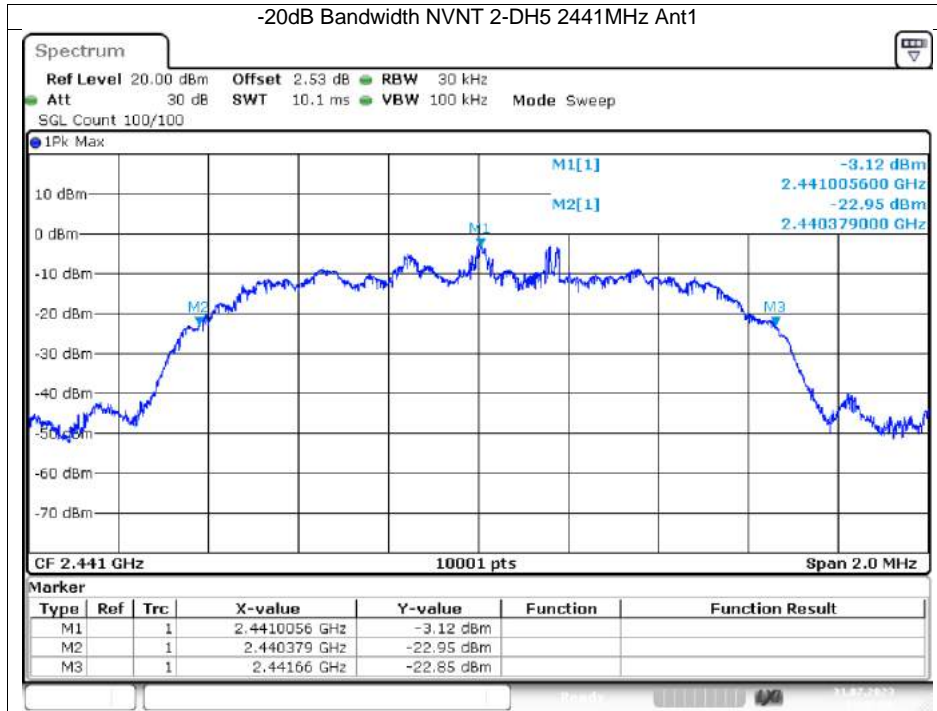
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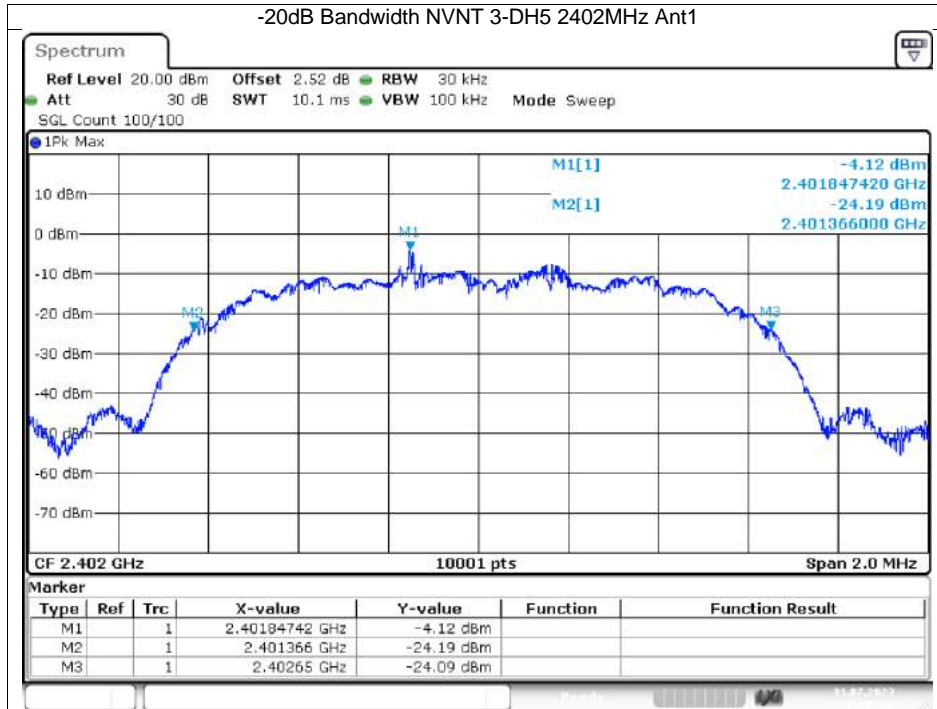


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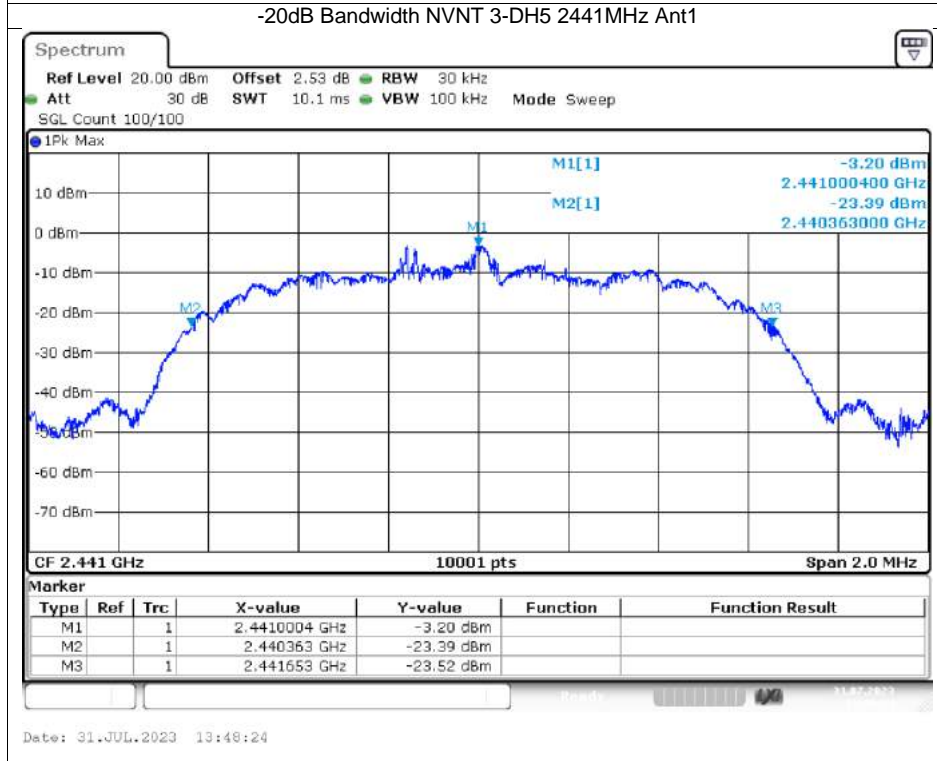


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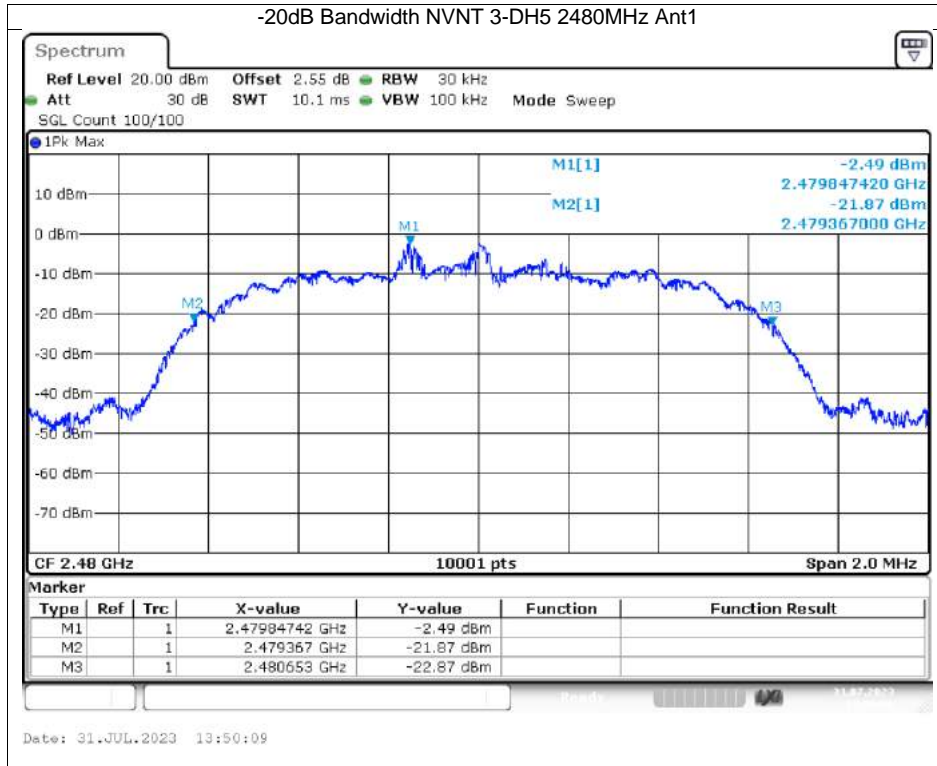




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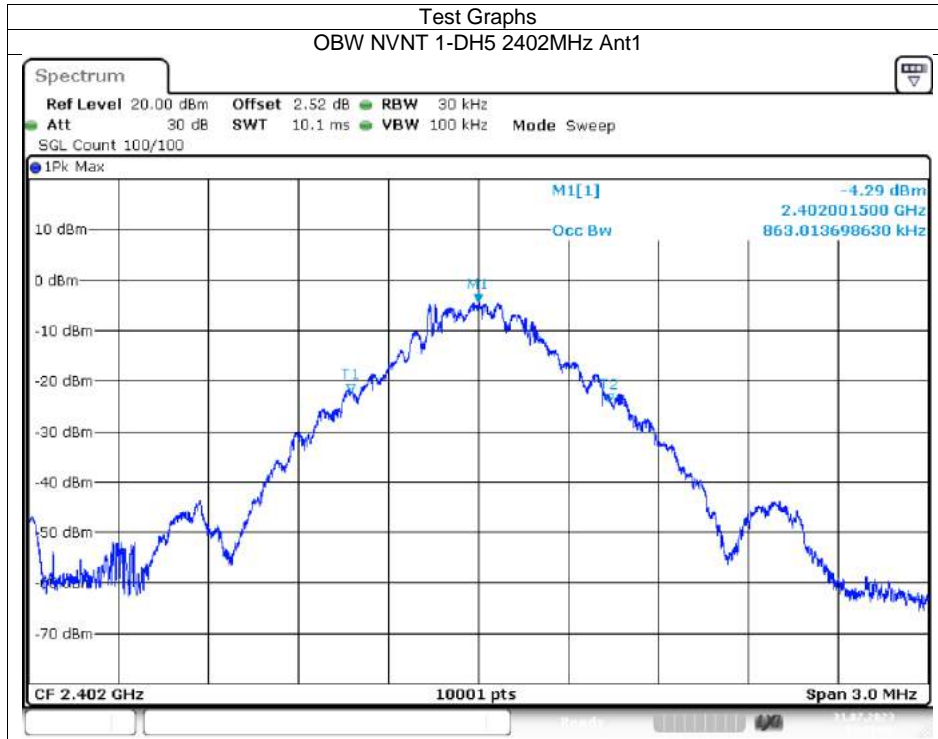


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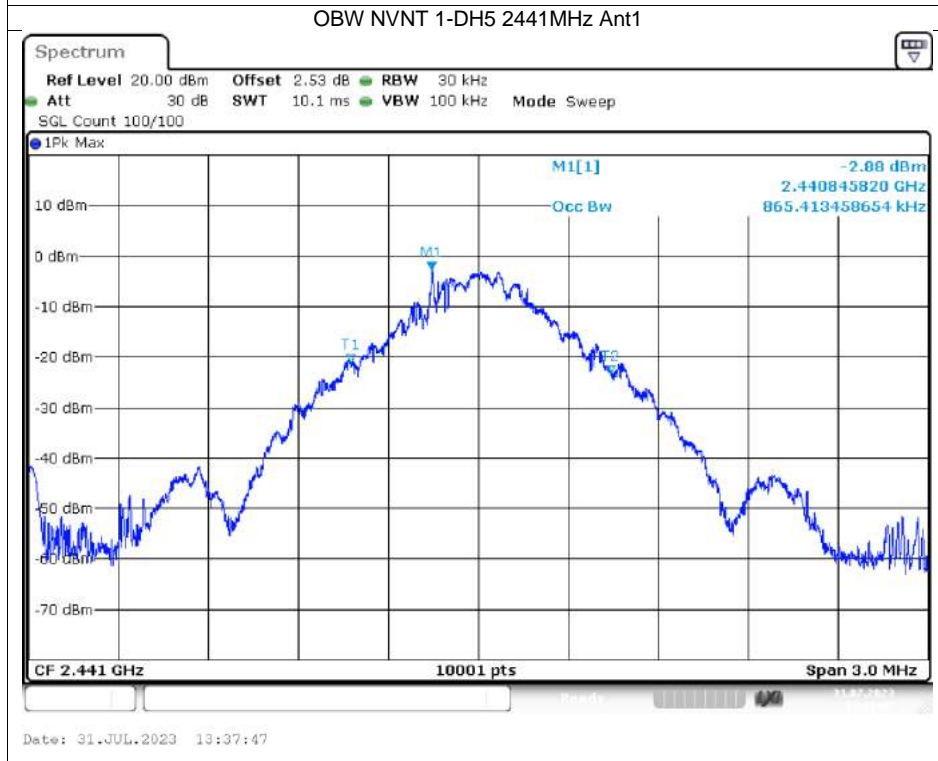


## Appendix C Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.863
NVNT	1-DH5	2441	Ant1	0.865
NVNT	1-DH5	2480	Ant1	0.859
NVNT	2-DH5	2402	Ant1	1.179
NVNT	2-DH5	2441	Ant1	1.187
NVNT	2-DH5	2480	Ant1	1.191
NVNT	3-DH5	2402	Ant1	1.206
NVNT	3-DH5	2441	Ant1	1.195
NVNT	3-DH5	2480	Ant1	1.203

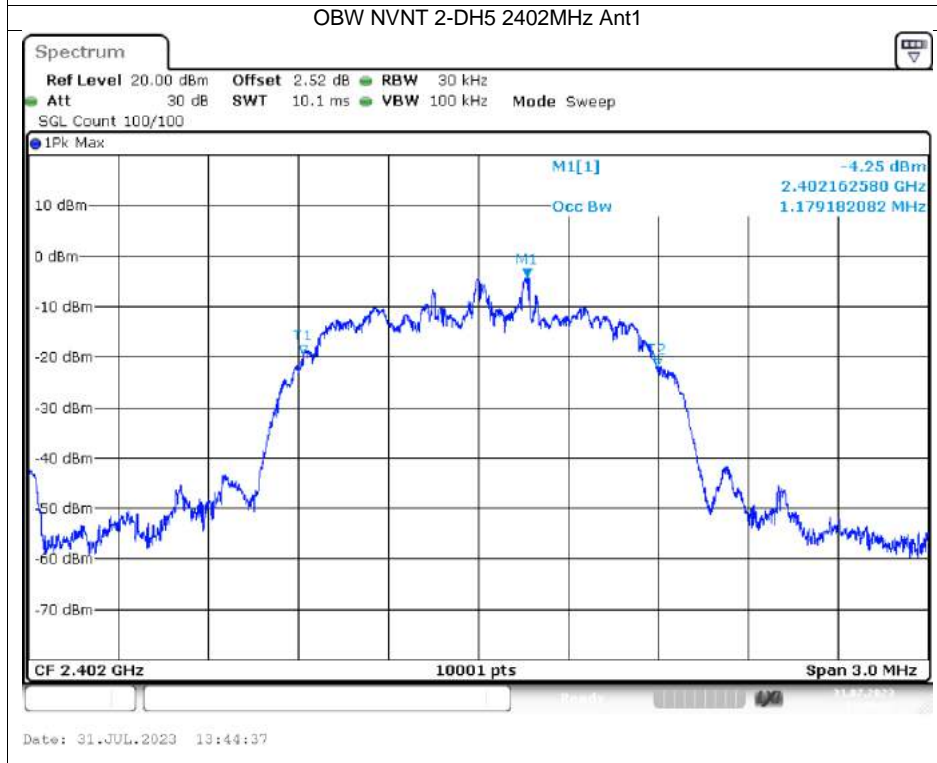
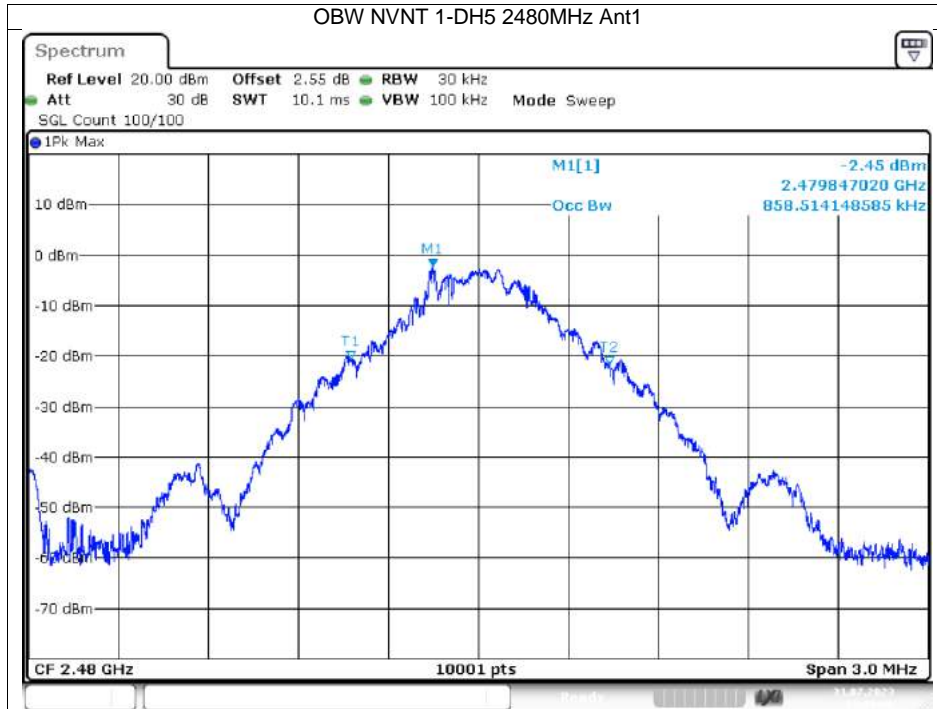


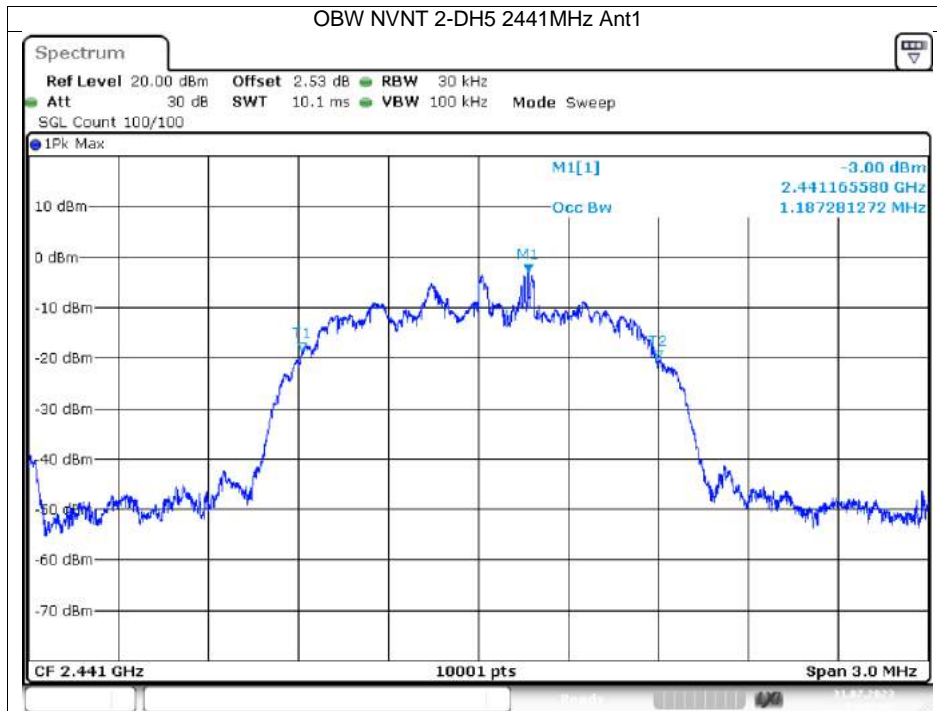
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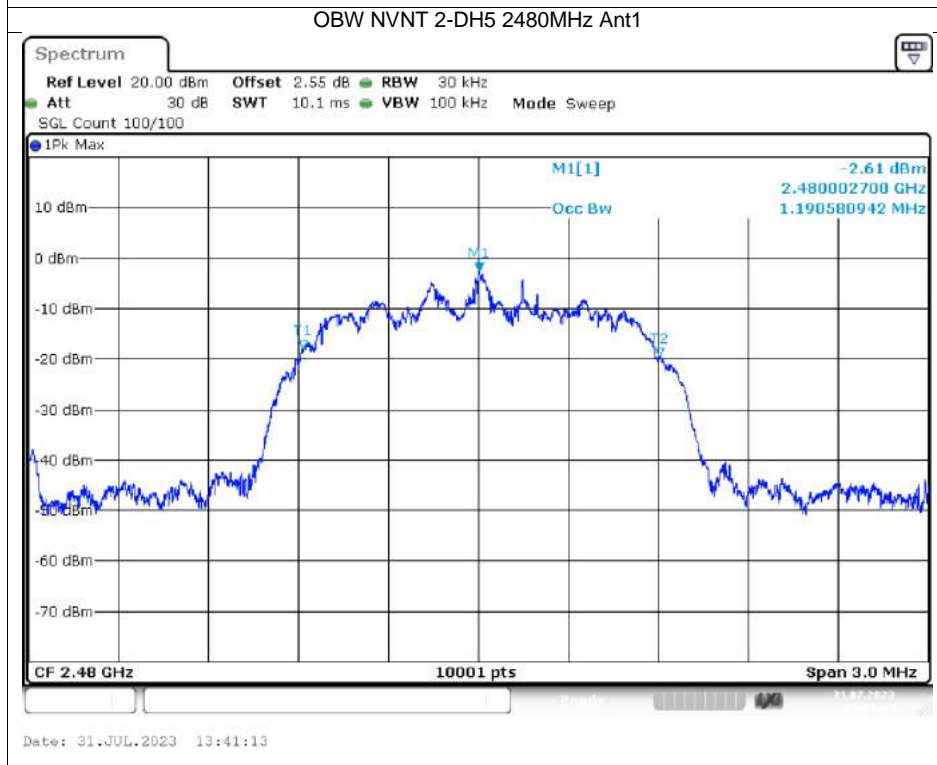
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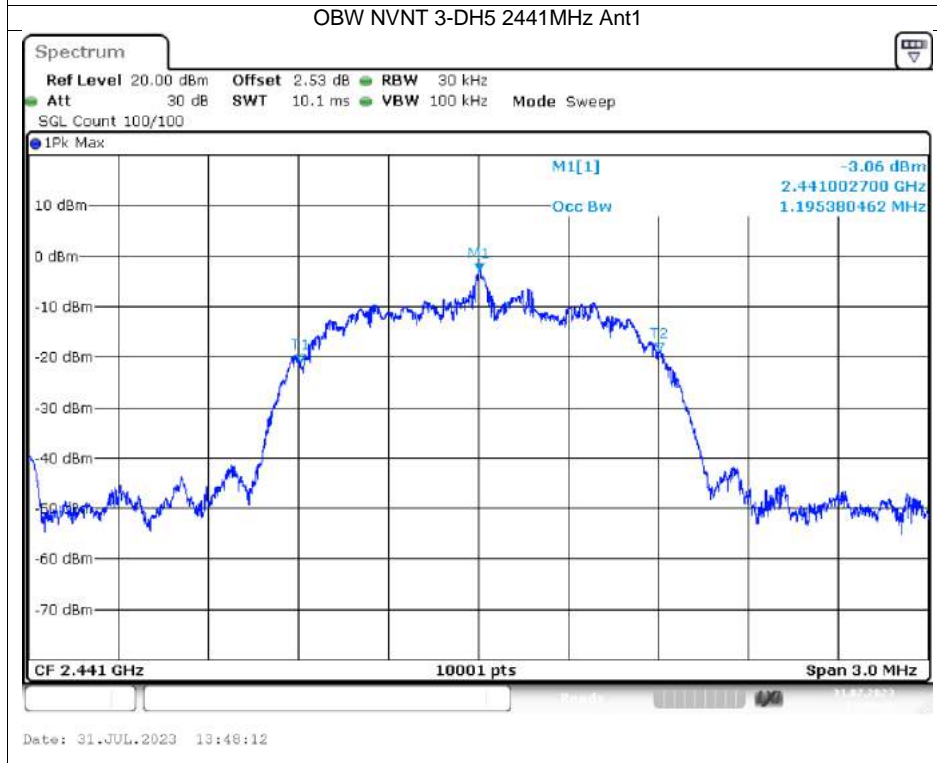
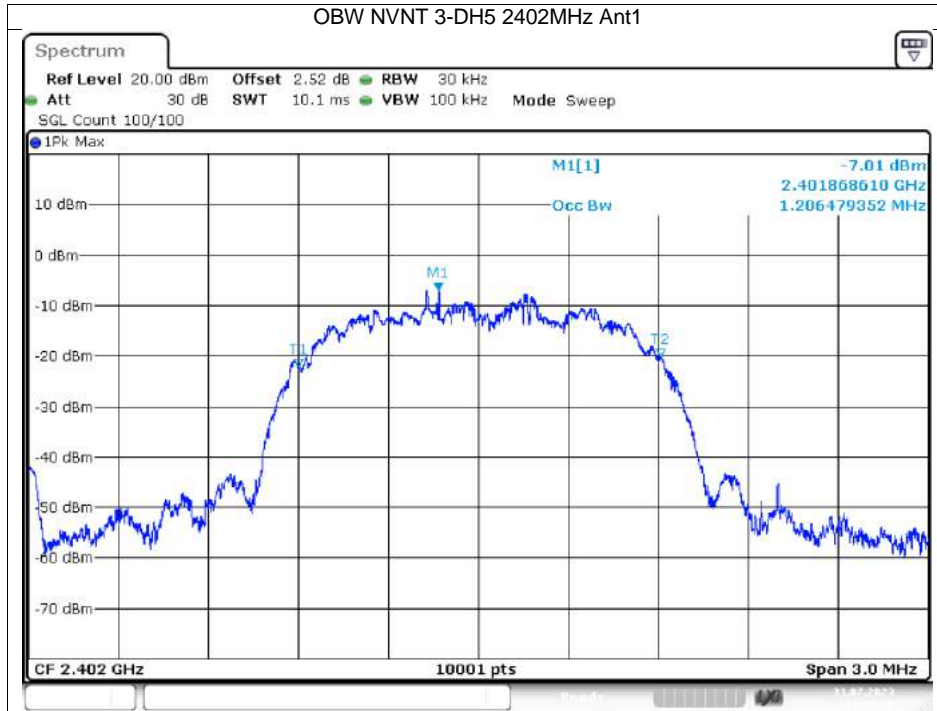


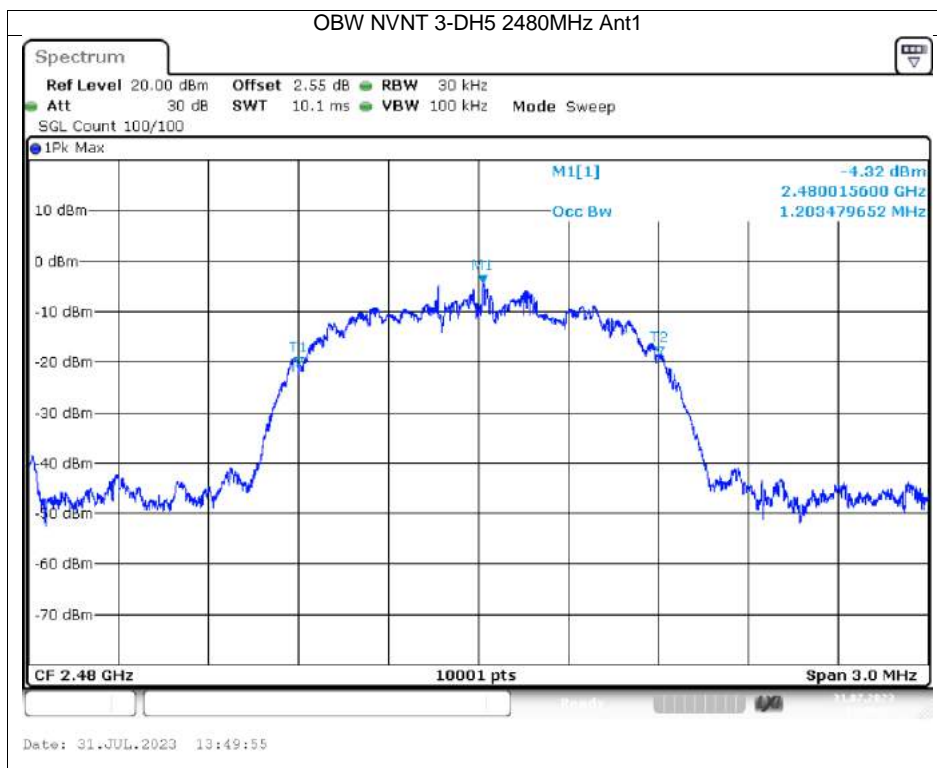


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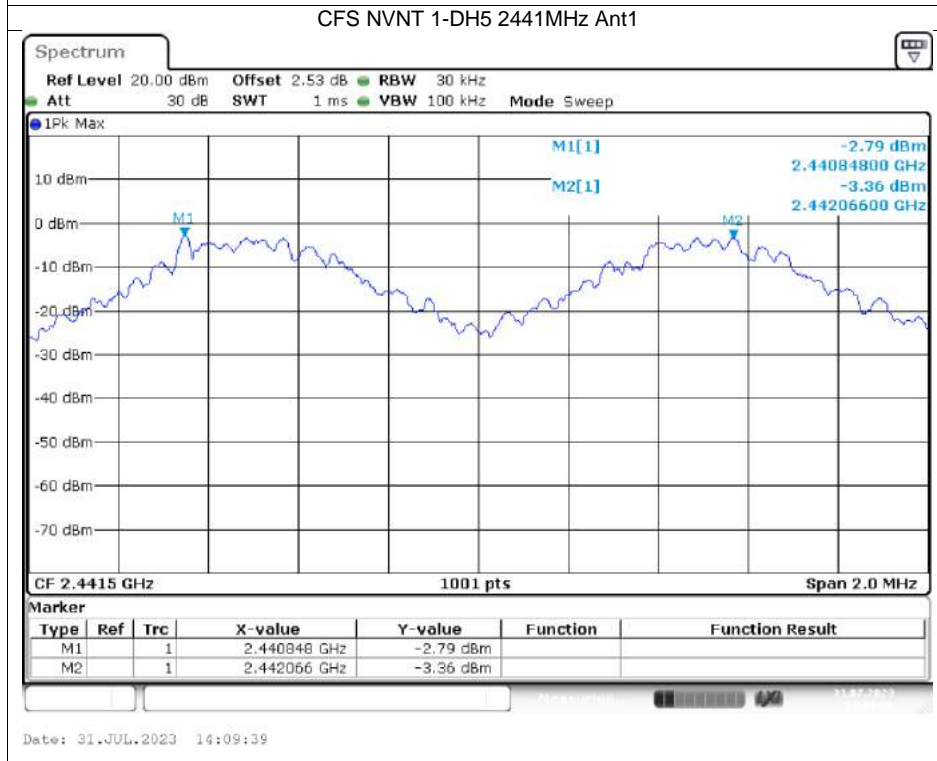
Date: 31.JUL.2023 13:41:13

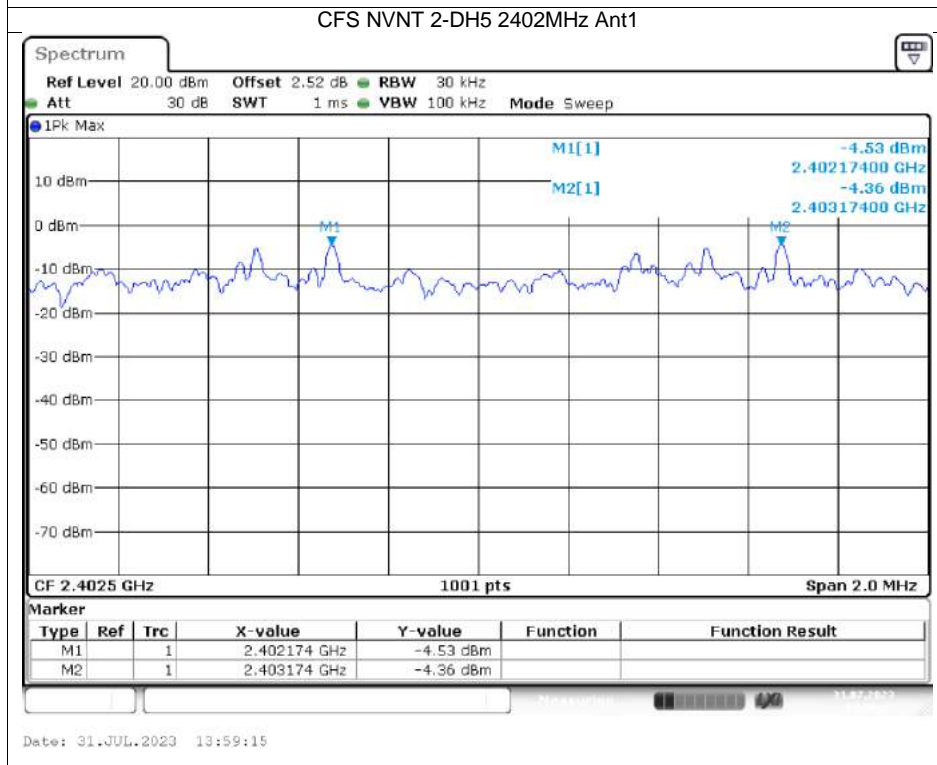
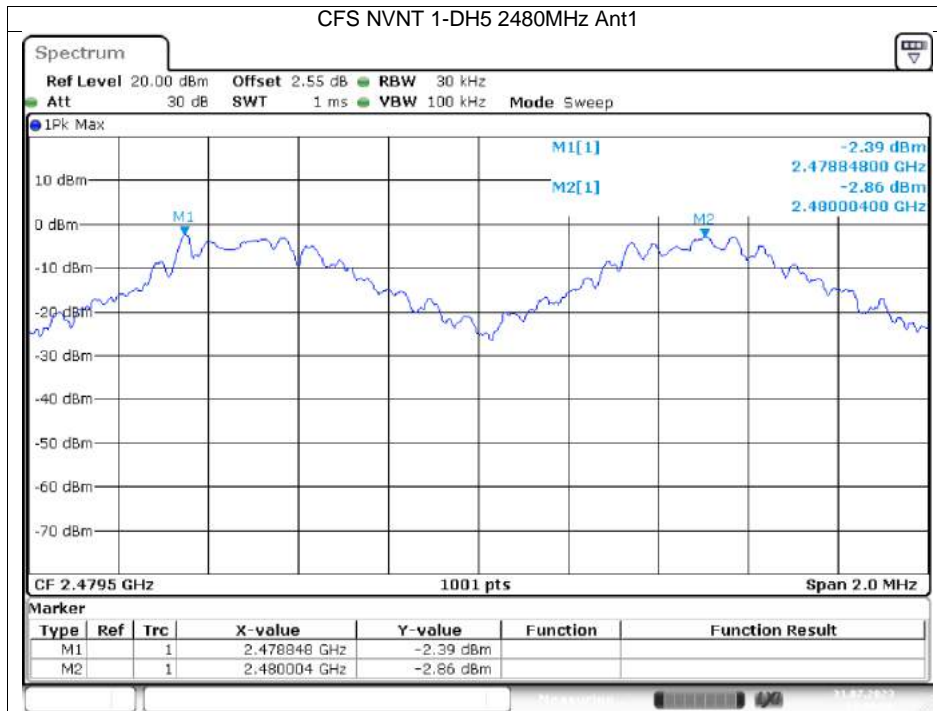


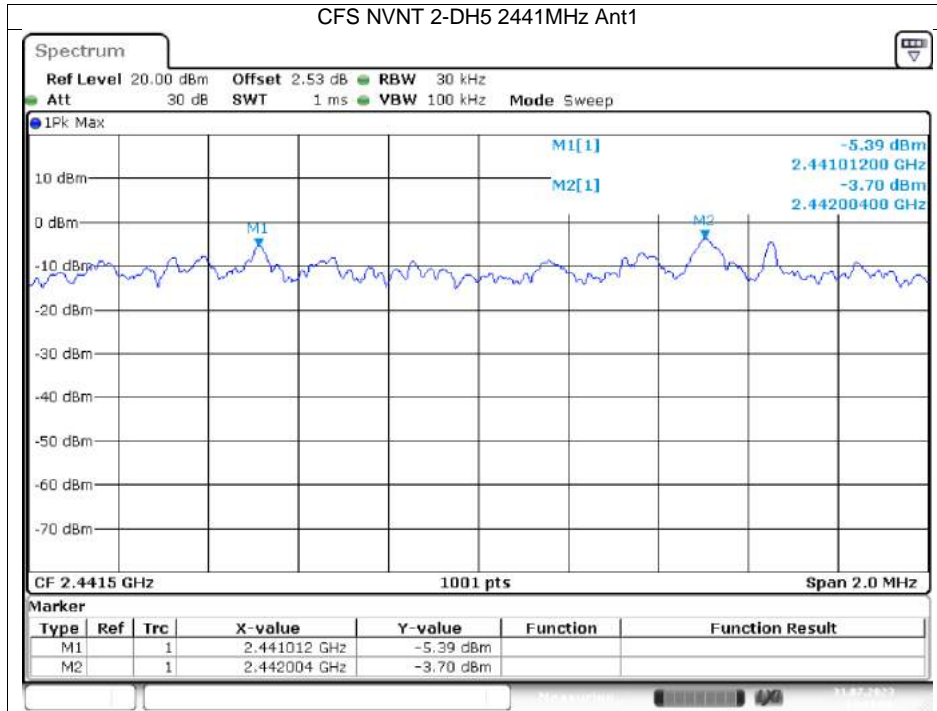


## Appendix D Carrier Frequencies Separation

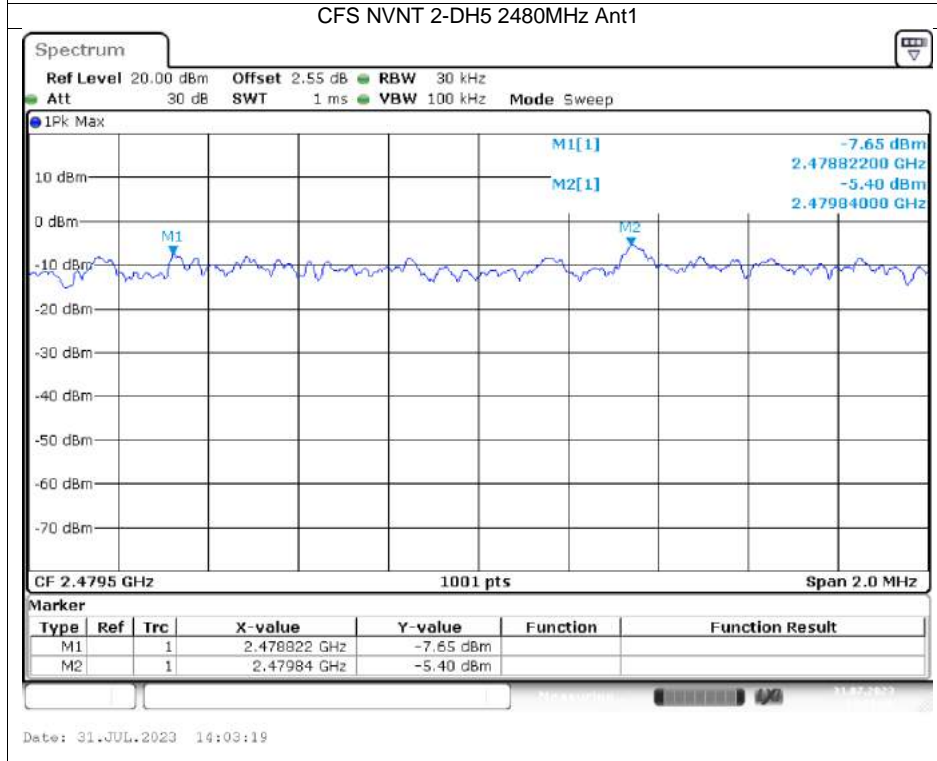
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.854	2403.066	1.212	0.631	Pass
NVNT	1-DH5	Ant1	2440.848	2442.066	1.218	0.627	Pass
NVNT	1-DH5	Ant1	2478.848	2480.004	1.156	0.631	Pass
NVNT	2-DH5	Ant1	2402.174	2403.174	1	0.855	Pass
NVNT	2-DH5	Ant1	2441.012	2442.004	0.992	0.855	Pass
NVNT	2-DH5	Ant1	2478.822	2479.84	1.018	0.873	Pass
NVNT	3-DH5	Ant1	2401.844	2403	1.156	0.856	Pass
NVNT	3-DH5	Ant1	2440.85	2441.846	0.996	0.859	Pass
NVNT	3-DH5	Ant1	2479.004	2480.008	1.004	0.857	Pass





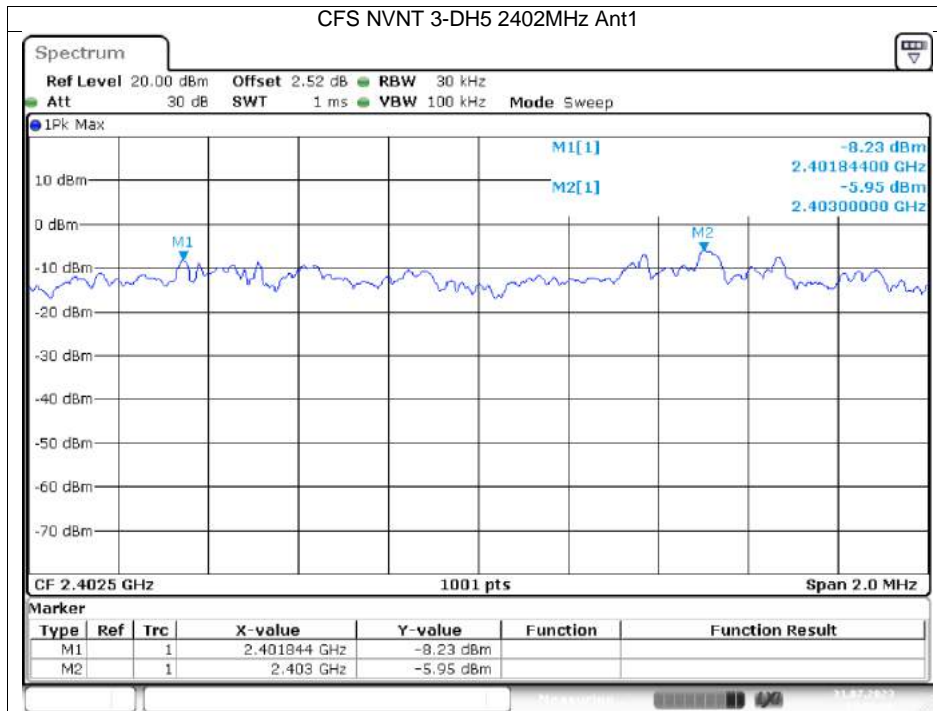


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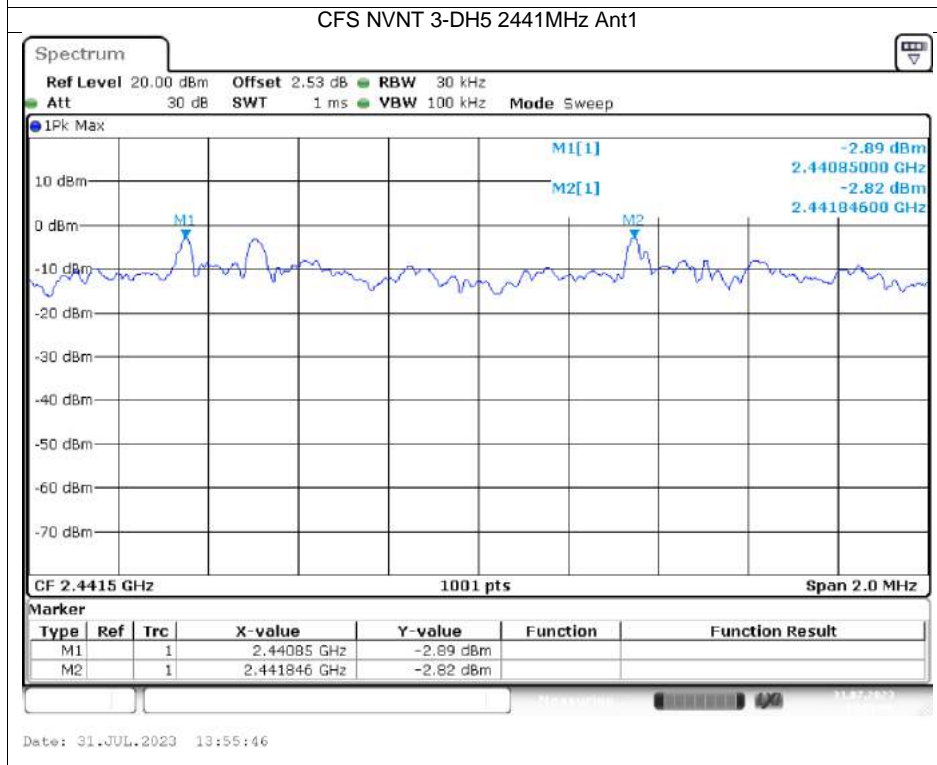


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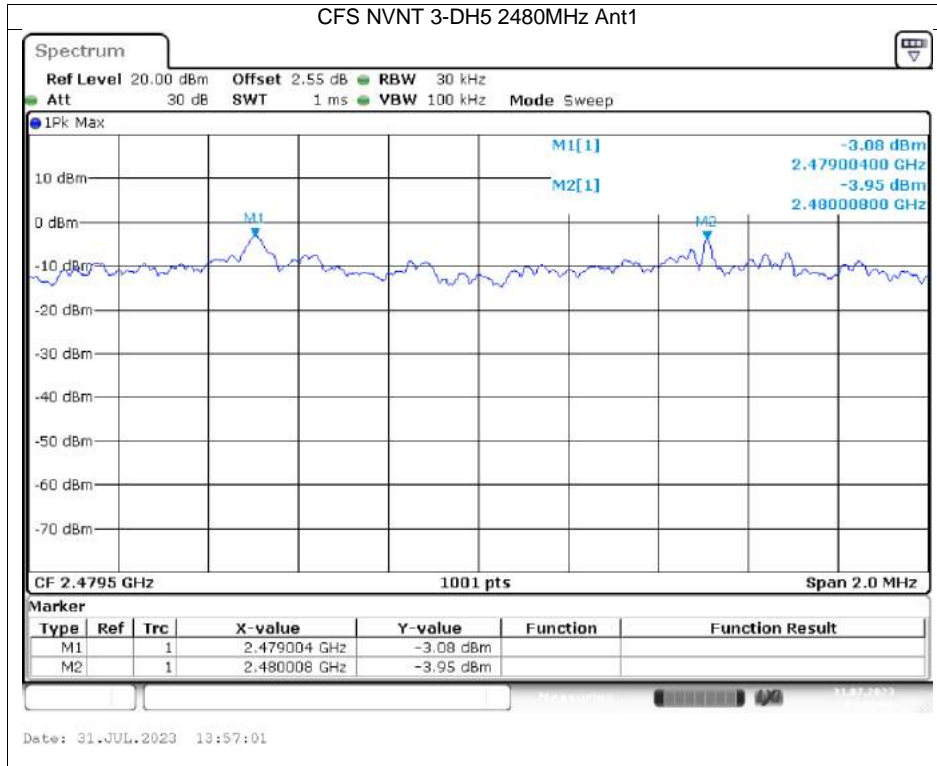




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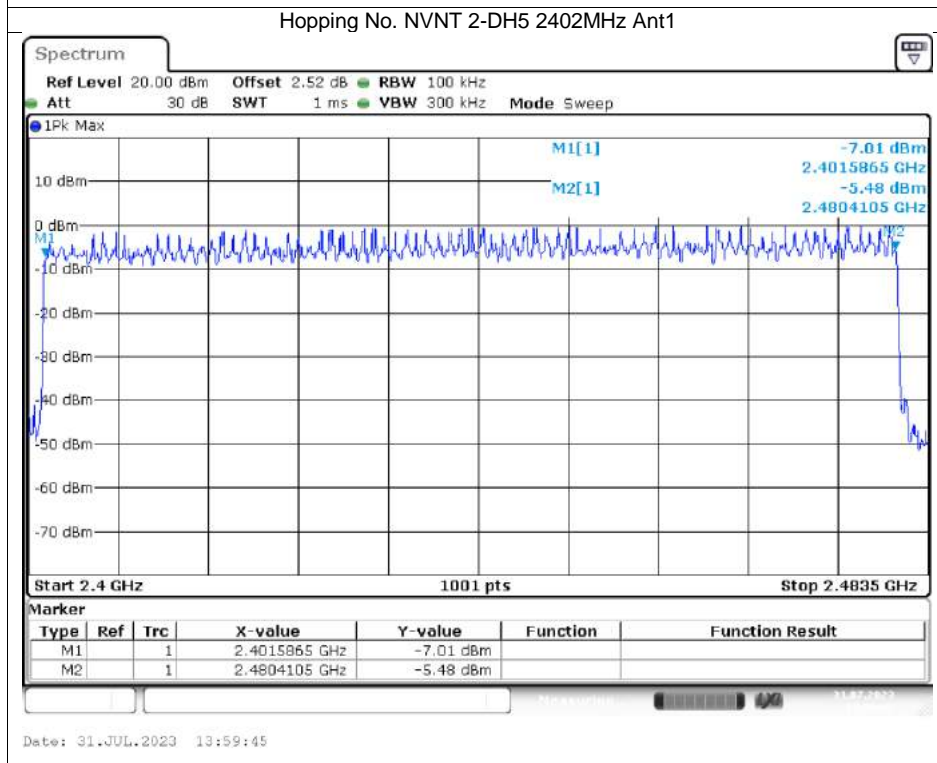
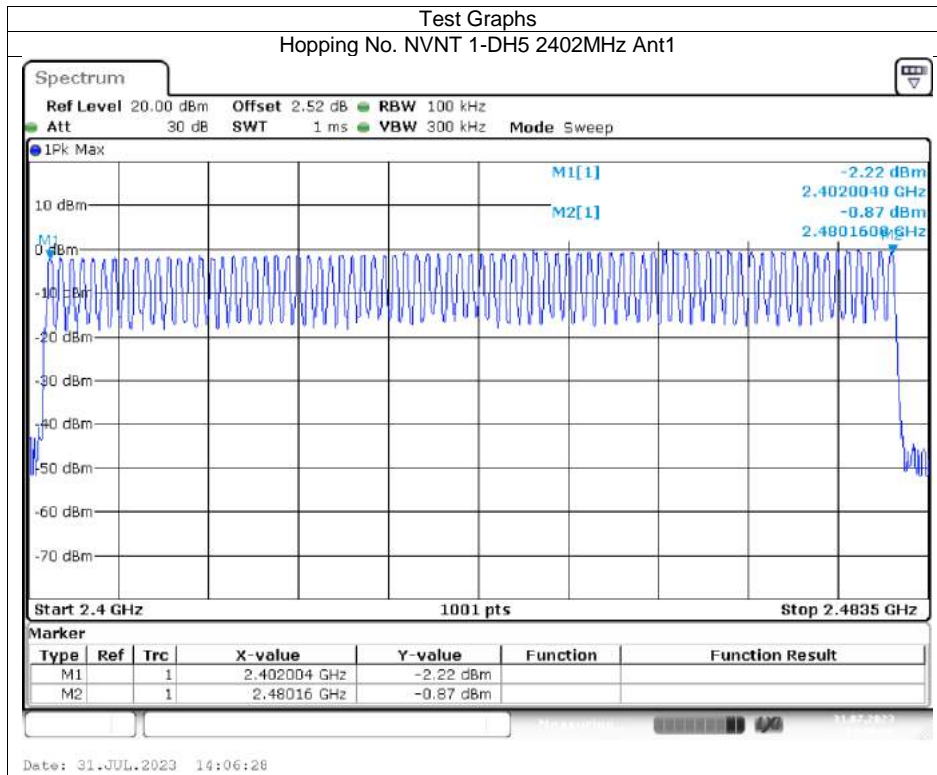


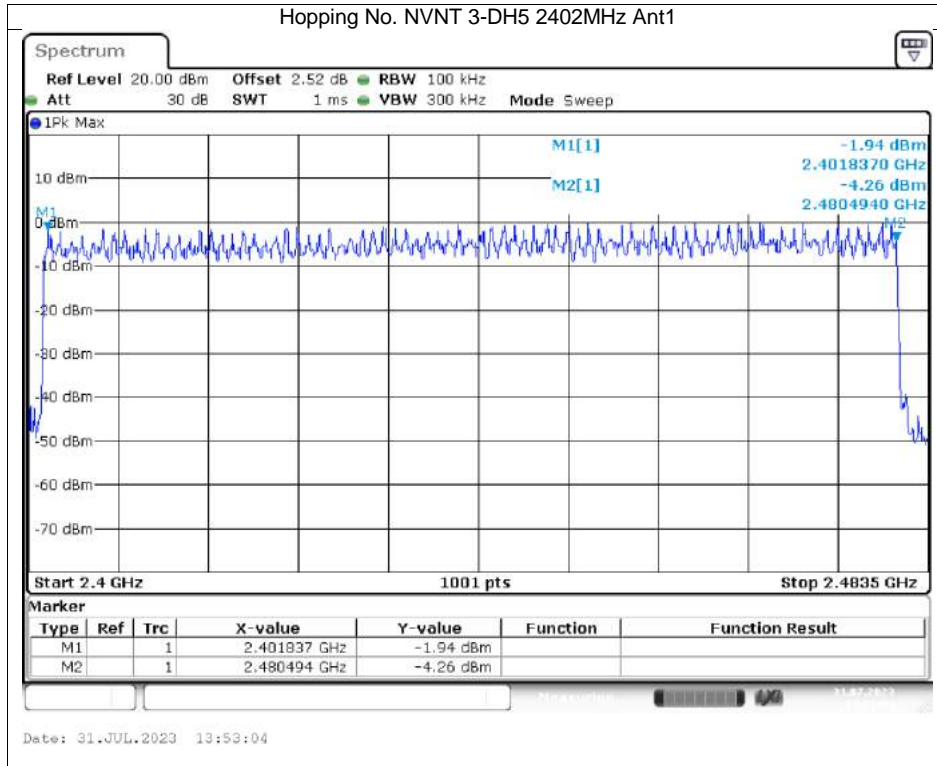
Date: 31.JUL.2023 13:55:46



## Appendix E Number of Hopping Channel

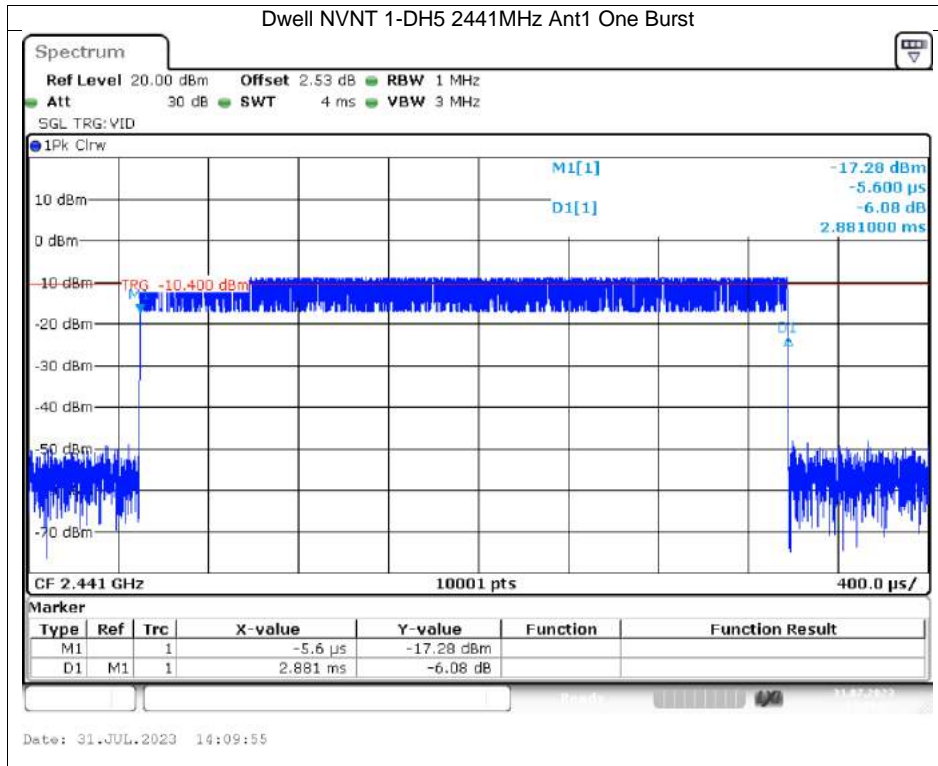
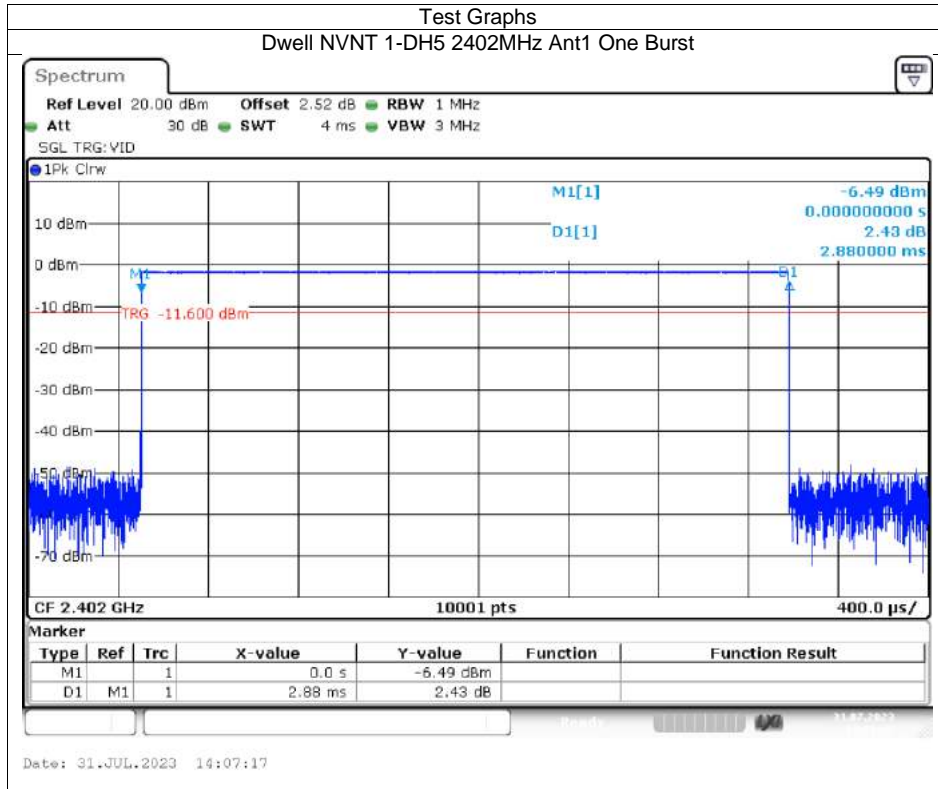
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

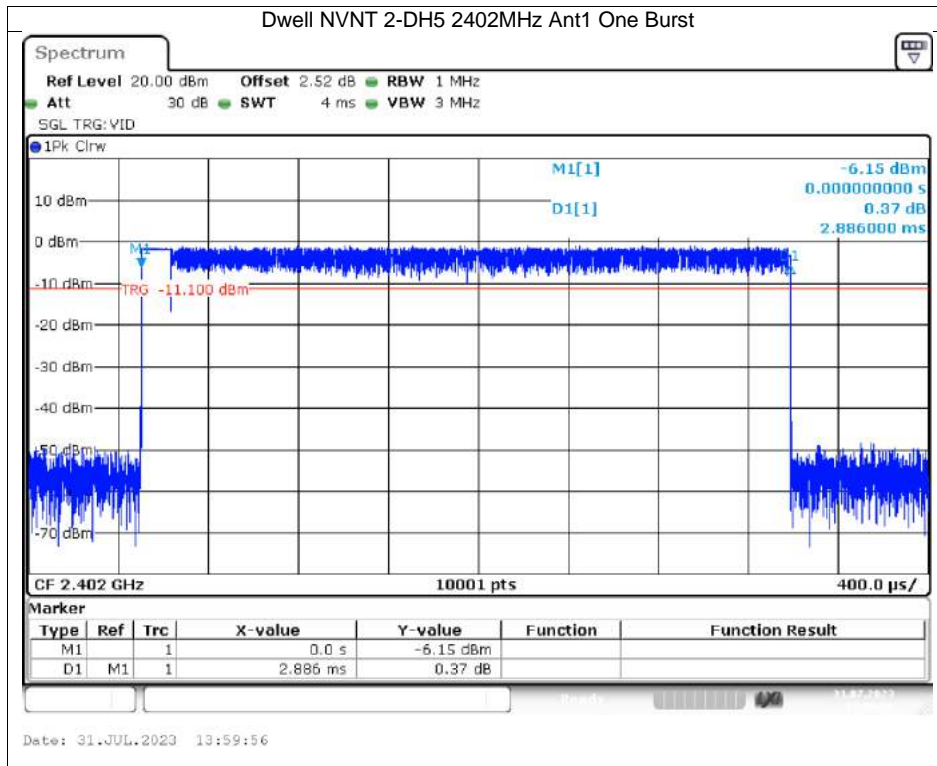
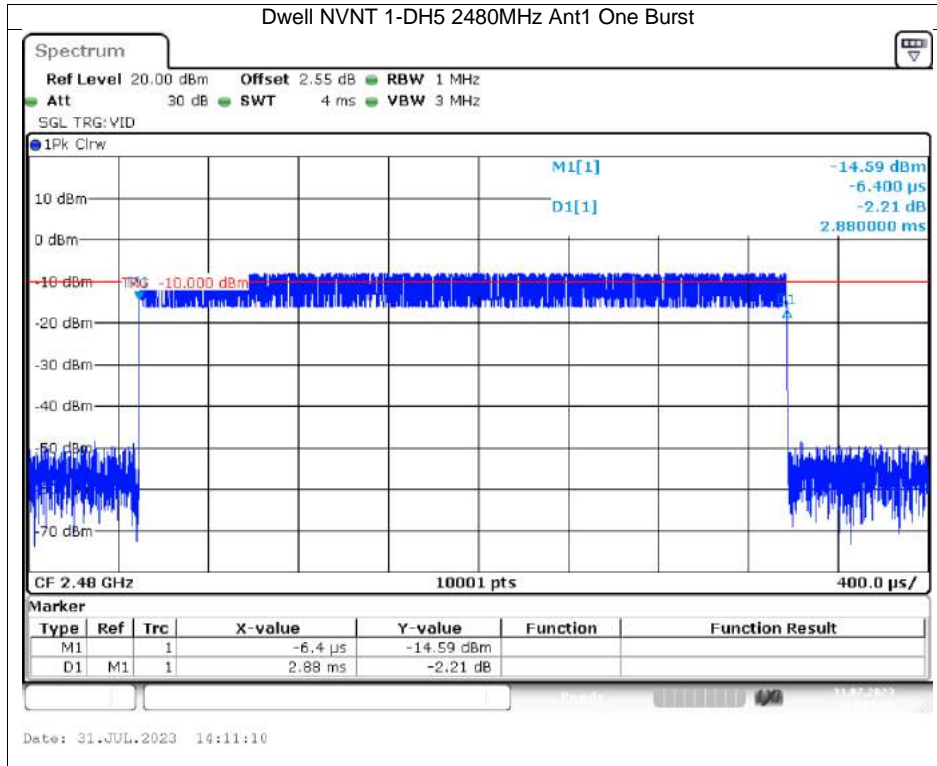




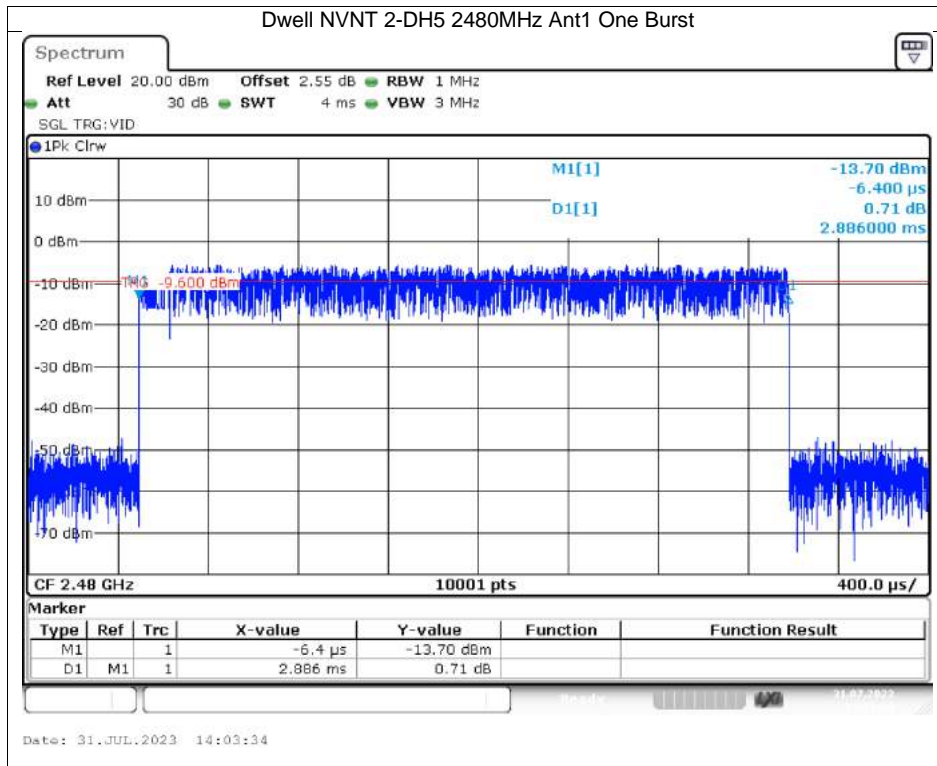
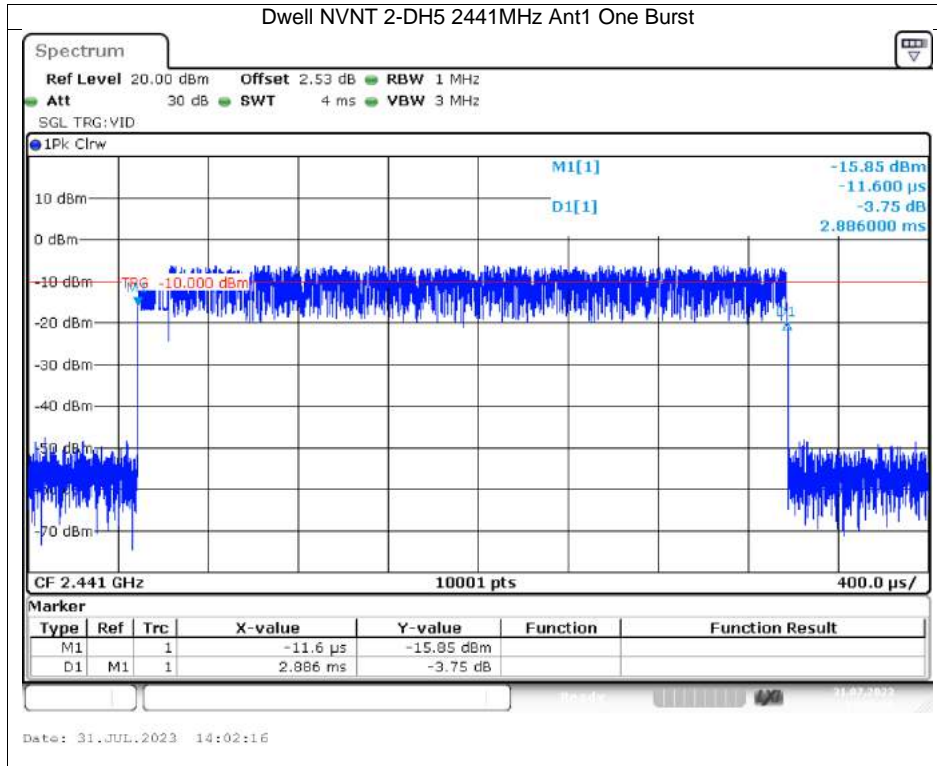
## Appendix F Dwell Time

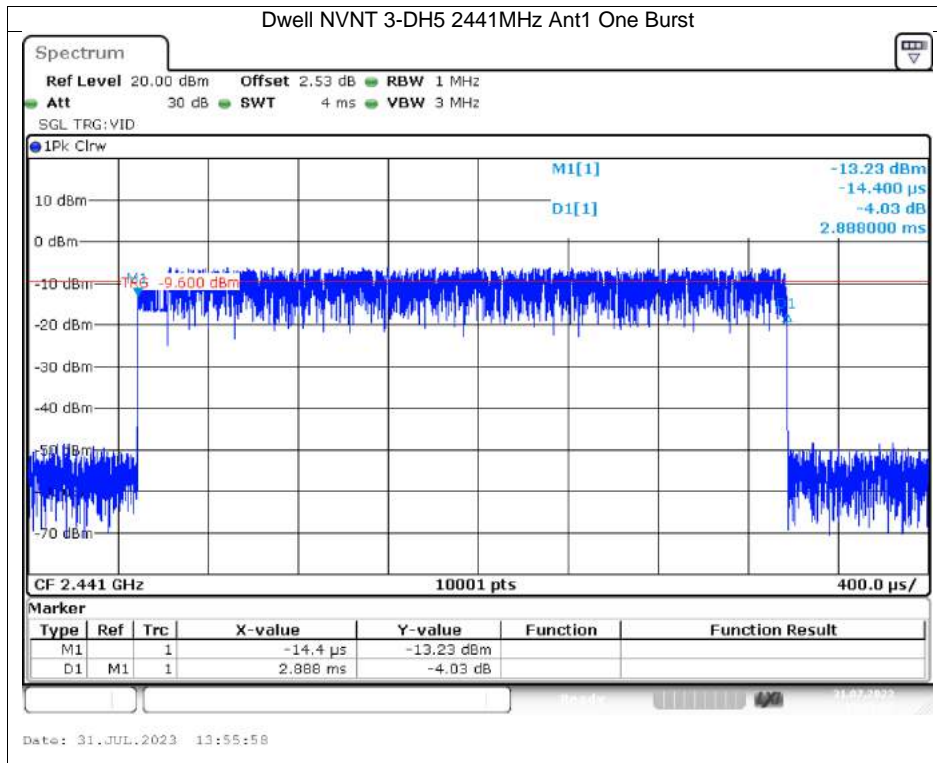
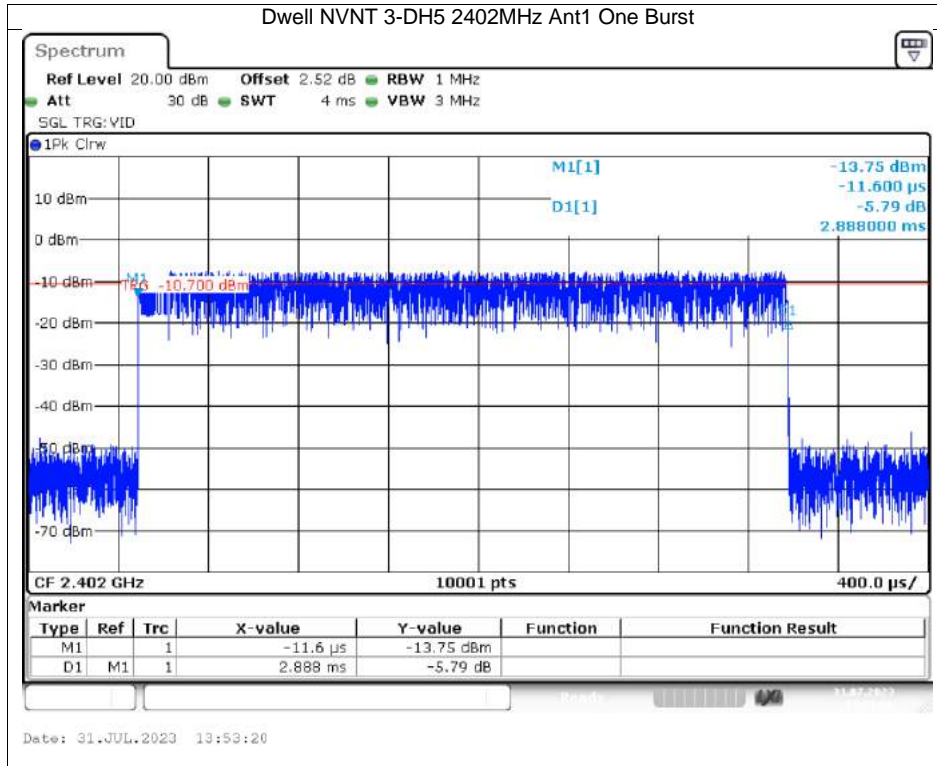
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.88	307.200	400	Pass
NVNT	1-DH5	2441	Ant1	2.881	307.307	400	Pass
NVNT	1-DH5	2480	Ant1	2.88	307.200	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	307.840	400	Pass
NVNT	2-DH5	2441	Ant1	2.886	307.840	400	Pass
NVNT	2-DH5	2480	Ant1	2.886	307.840	400	Pass
NVNT	3-DH5	2402	Ant1	2.888	308.053	400	Pass
NVNT	3-DH5	2441	Ant1	2.888	308.053	400	Pass
NVNT	3-DH5	2480	Ant1	2.888	308.053	400	Pass

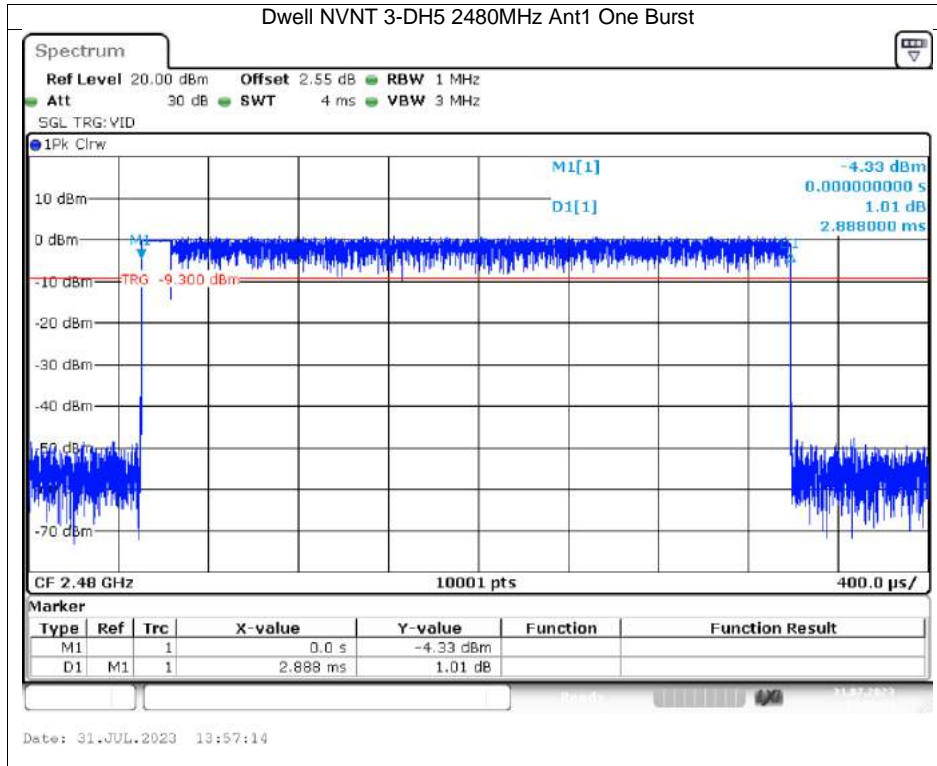






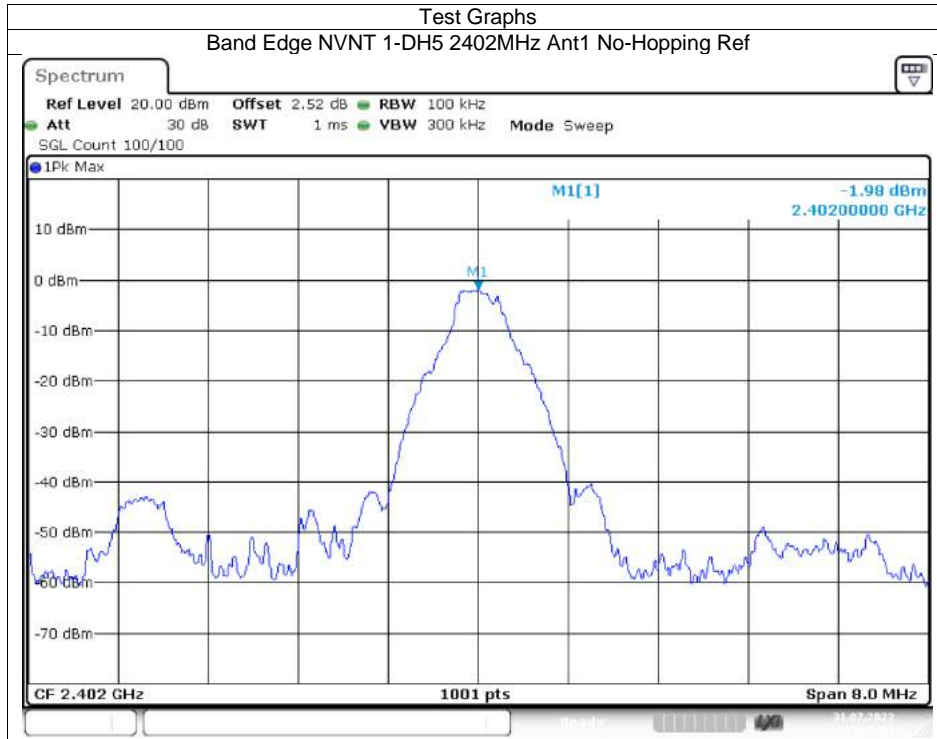




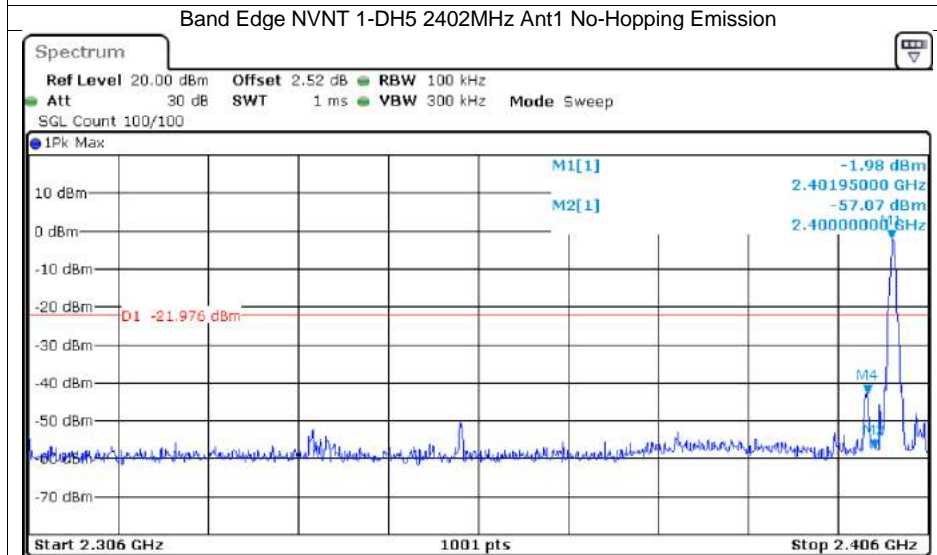


## Appendix G Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-40.69	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-46.87	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-40.25	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-43.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-40.56	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-48.73	-20	Pass



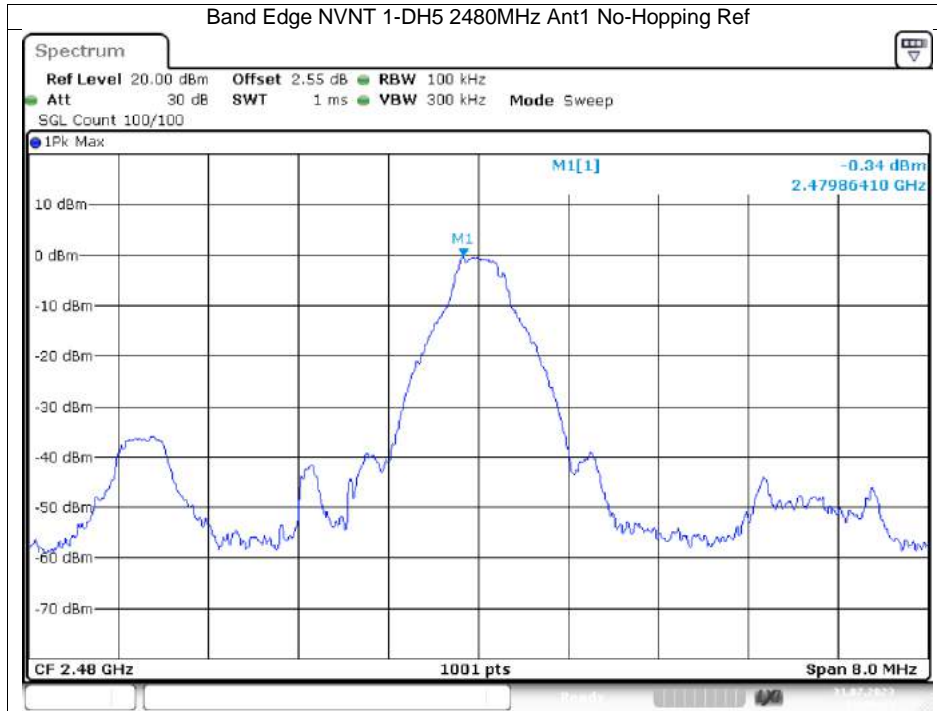
Date: 31.JUL.2023 13:36:11



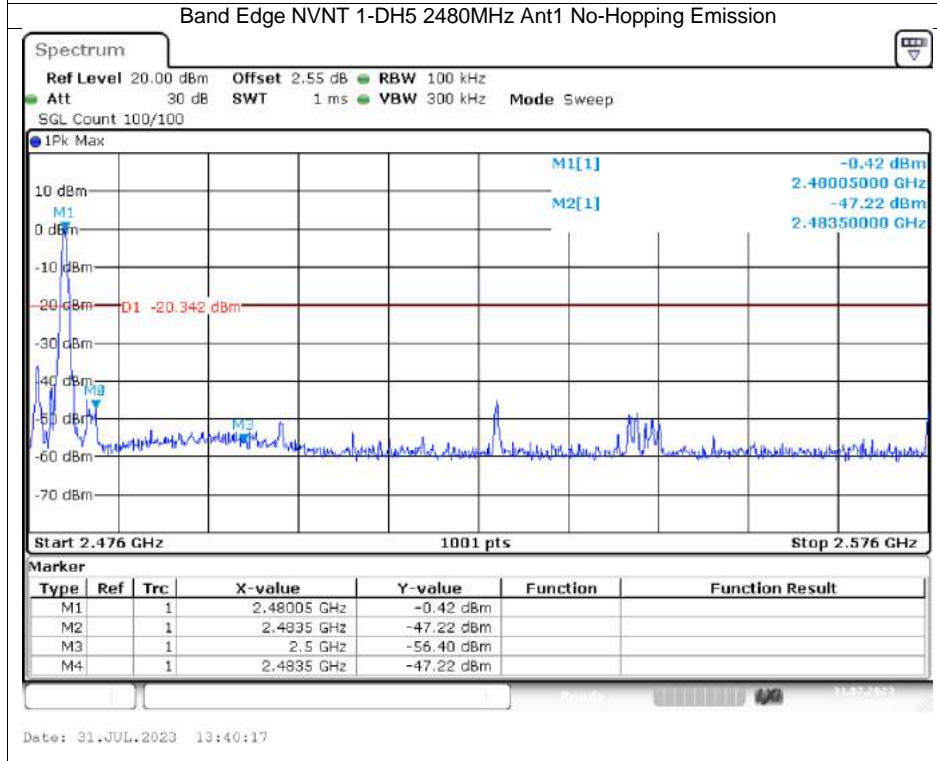
Marker

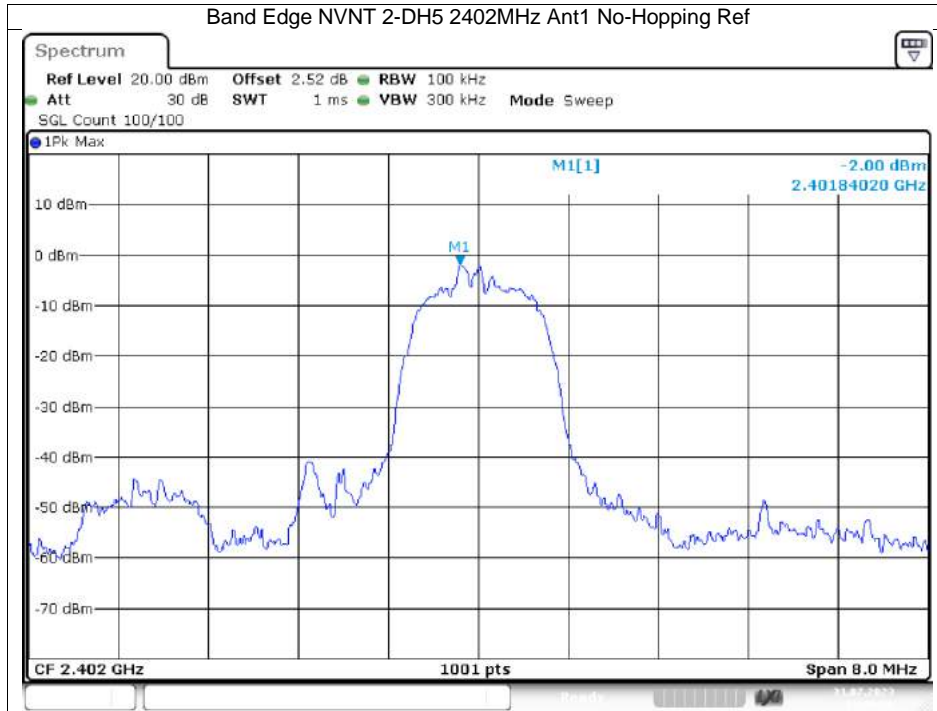
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40195 GHz	-1.98 dBm		
M2		1	2.4 GHz	-57.07 dBm		
M3		1	2.4 GHz	-57.07 dBm		
M4		1	2.3992 GHz	-42.68 dBm		

Date: 31.JUL.2023 13:36:14

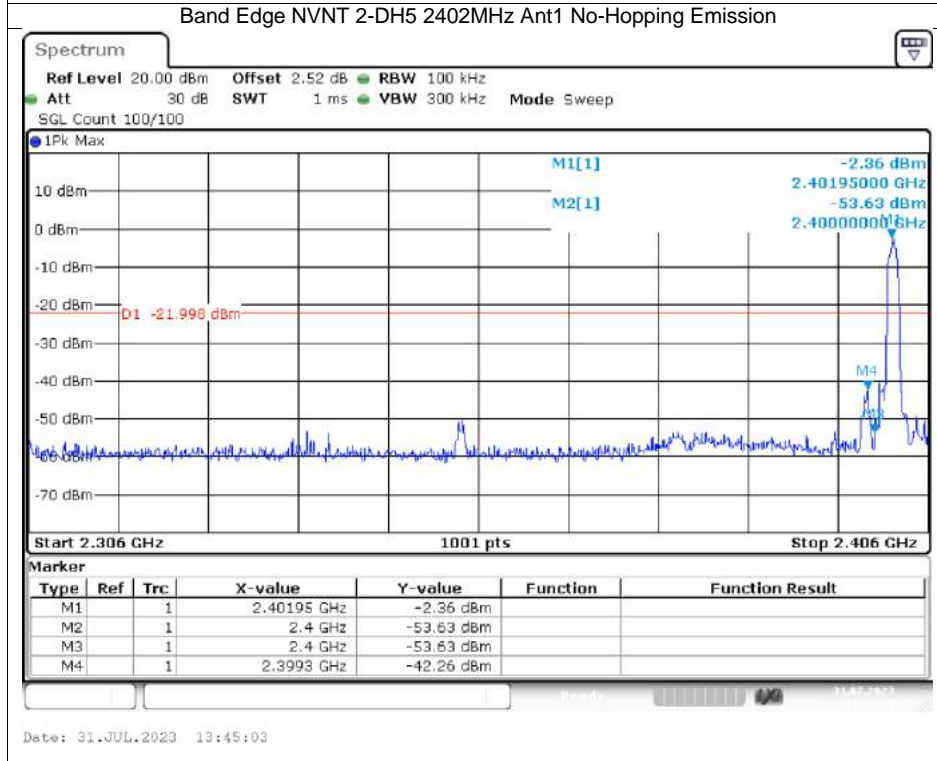


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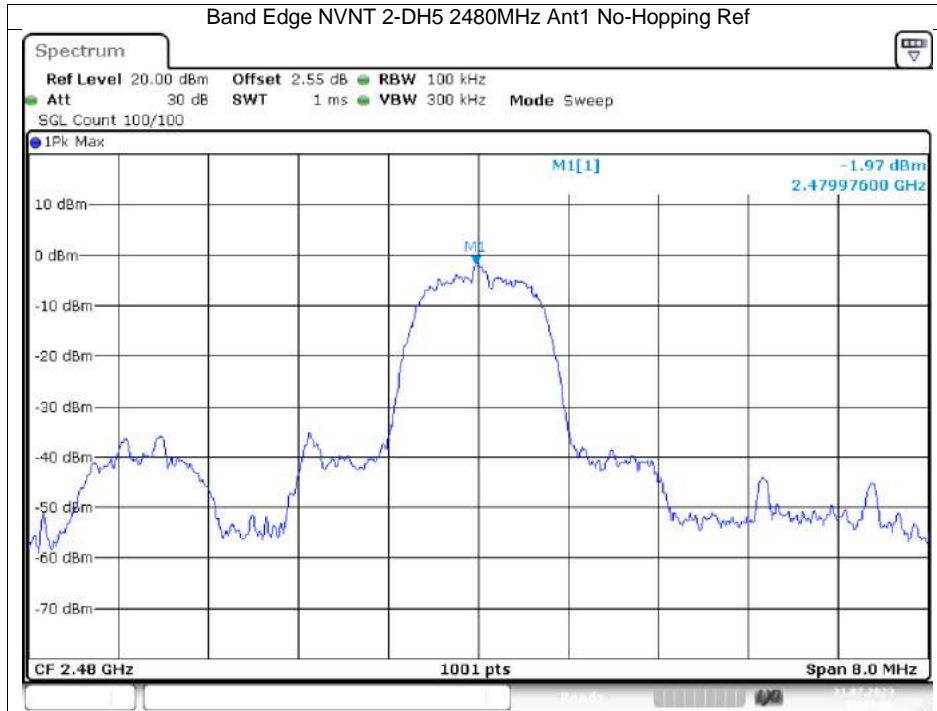




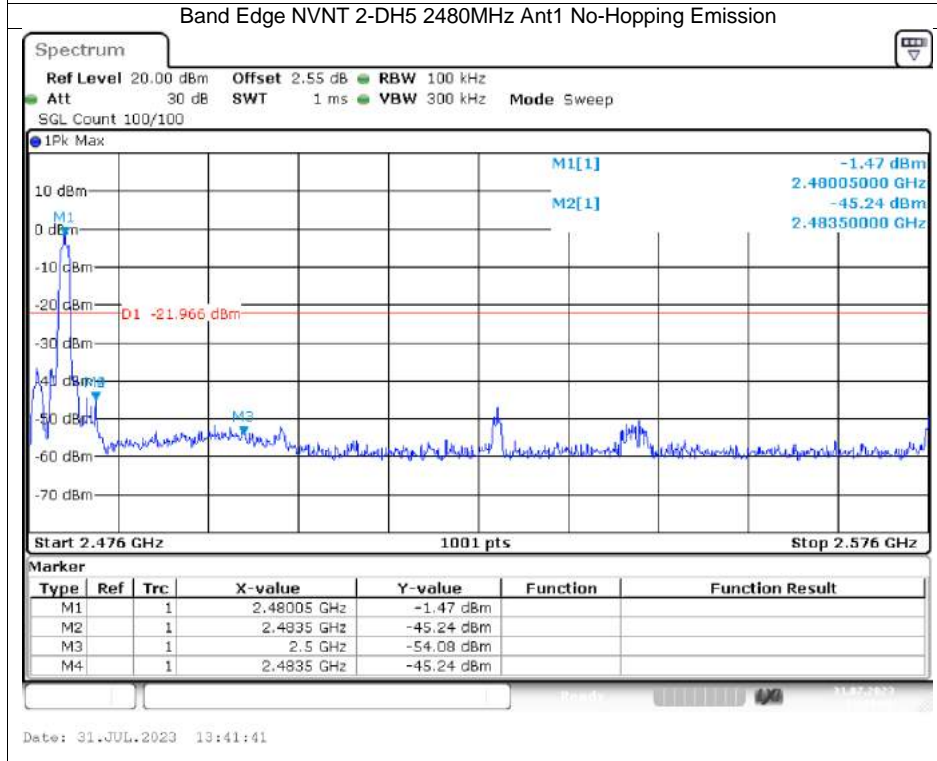
Date: 31.JUL.2023 13:44:59



Date: 31.JUL.2023 13:45:03

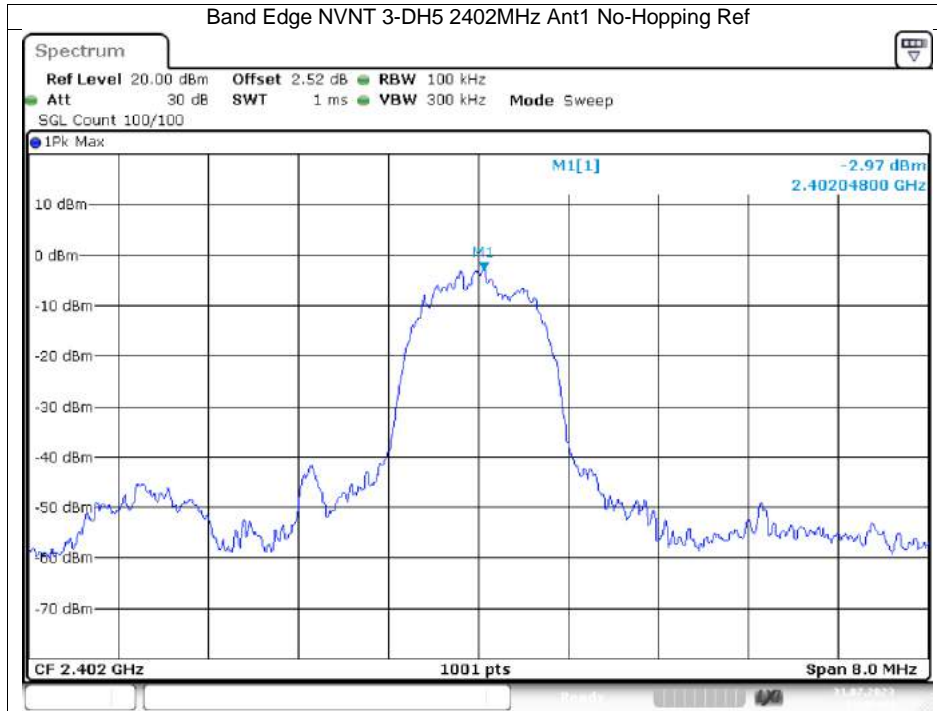


Date: 31.JUL.2023 13:41:38

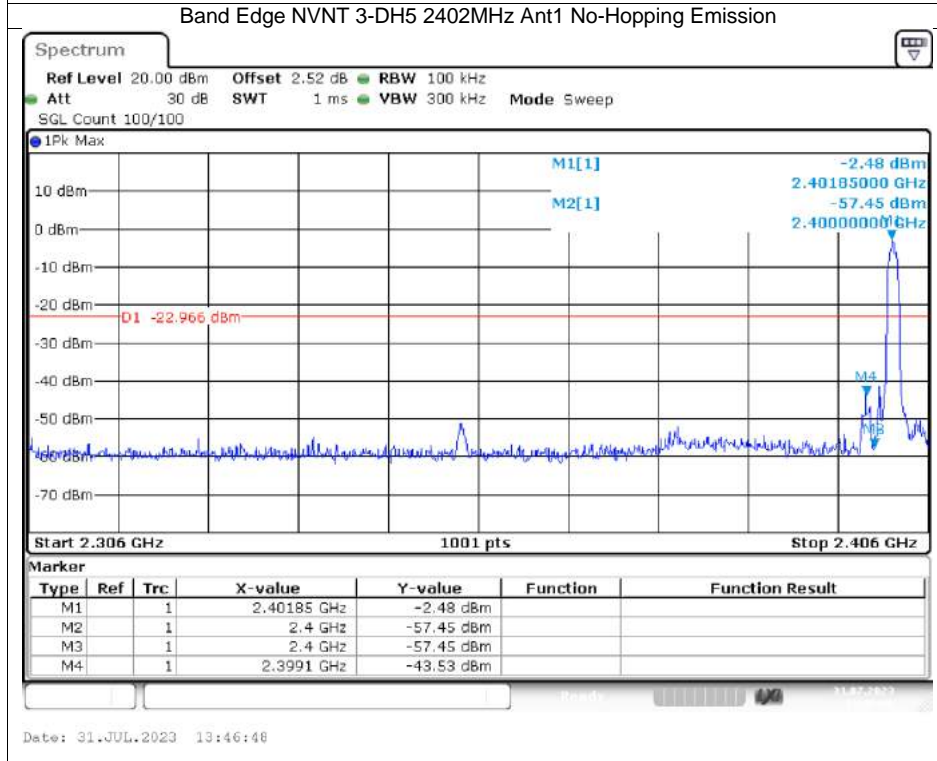


Date: 31.JUL.2023 13:41:41

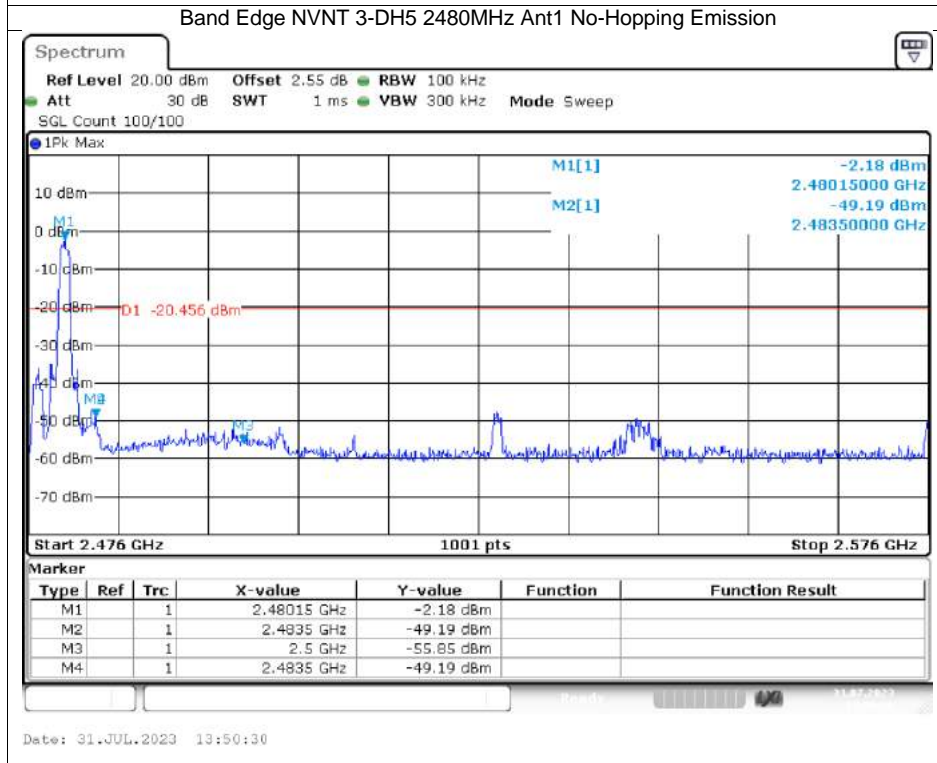
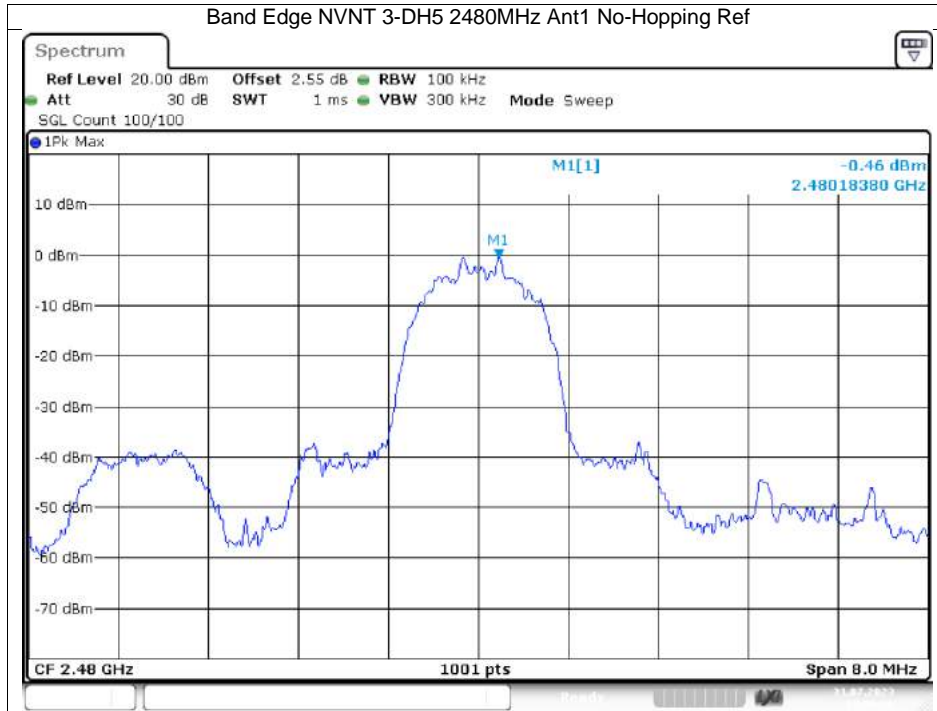




Date: 31.JUL.2023 13:46:44

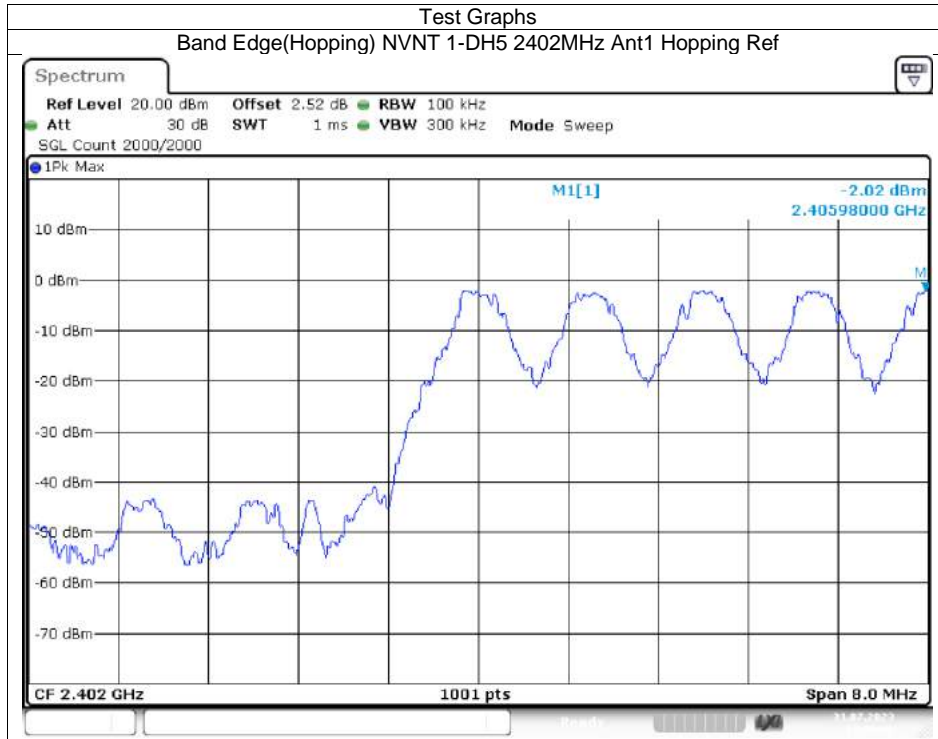


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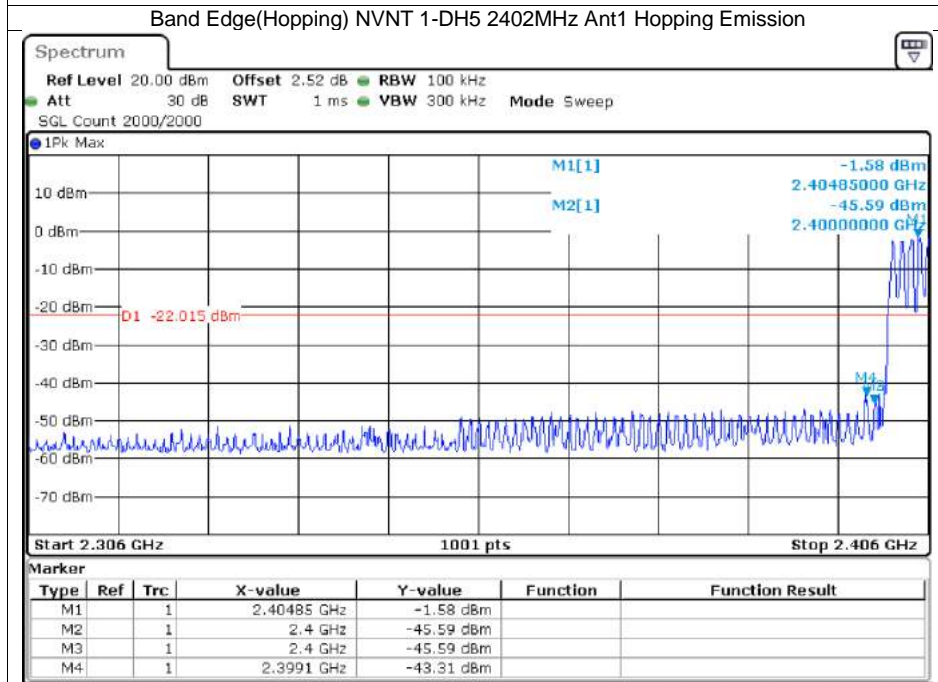


## Appendix H Band Edge(Hopping)

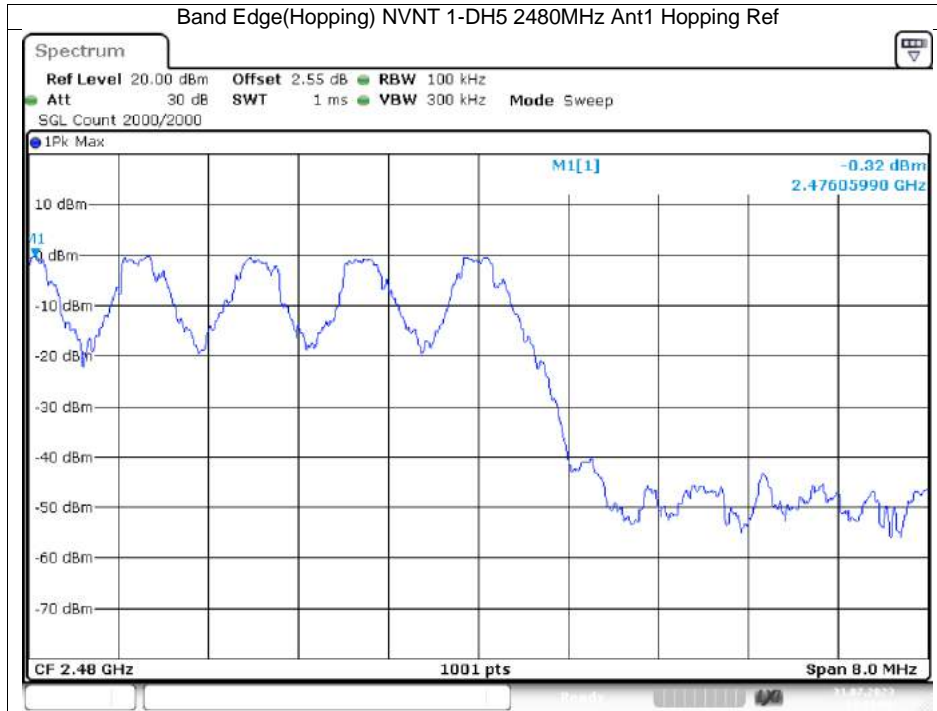
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-41.28	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-43.58	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-41.3	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-45.24	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-34.98	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-45.51	-20	Pass



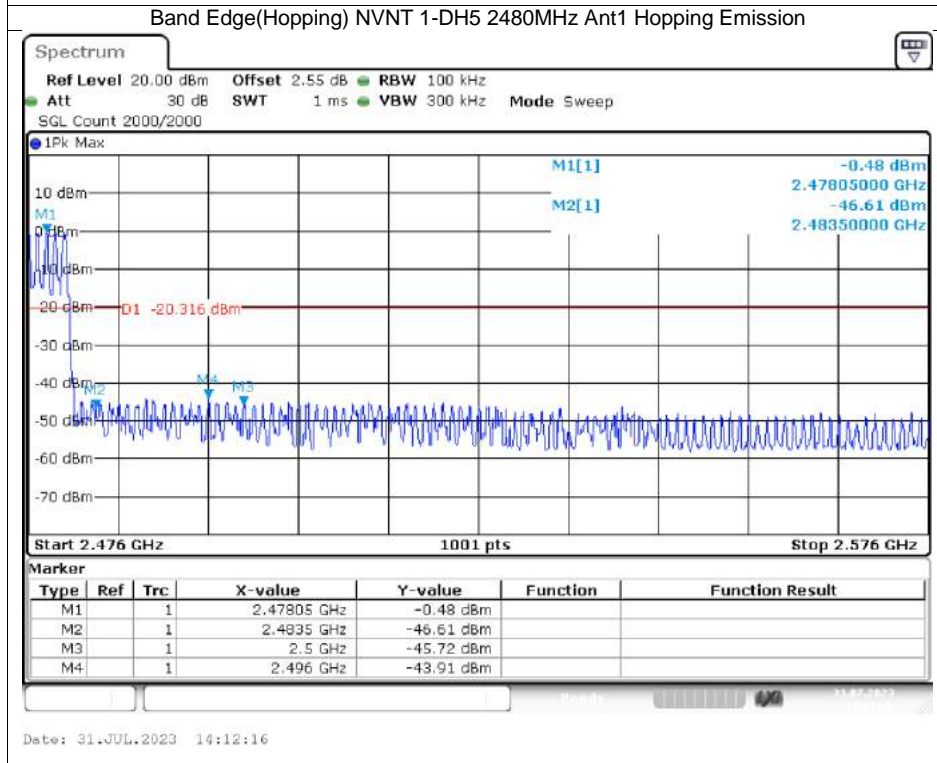
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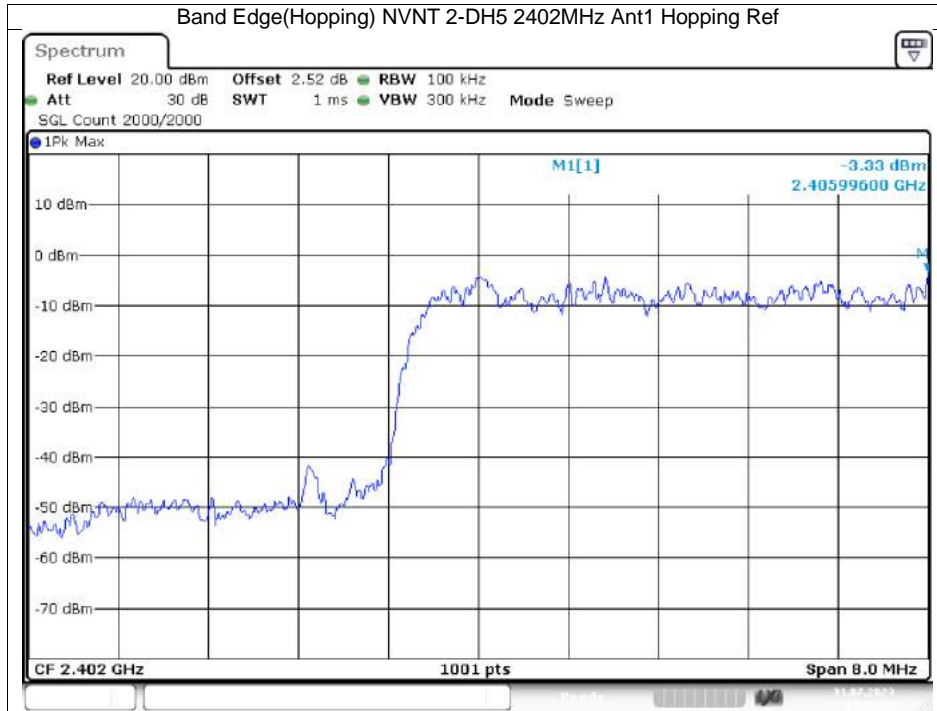


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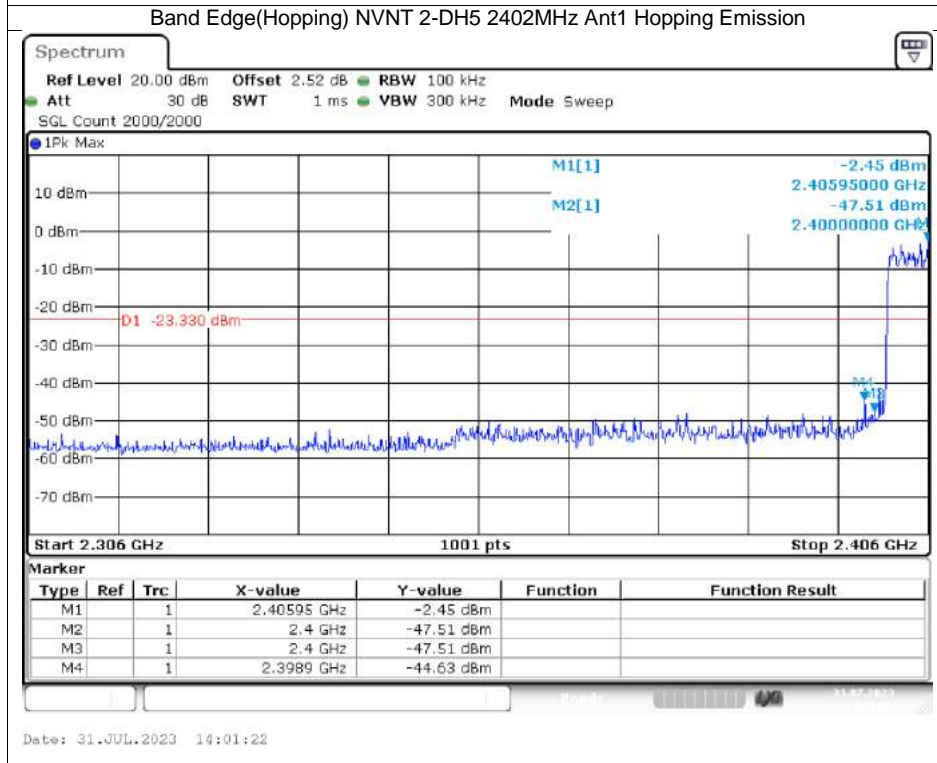


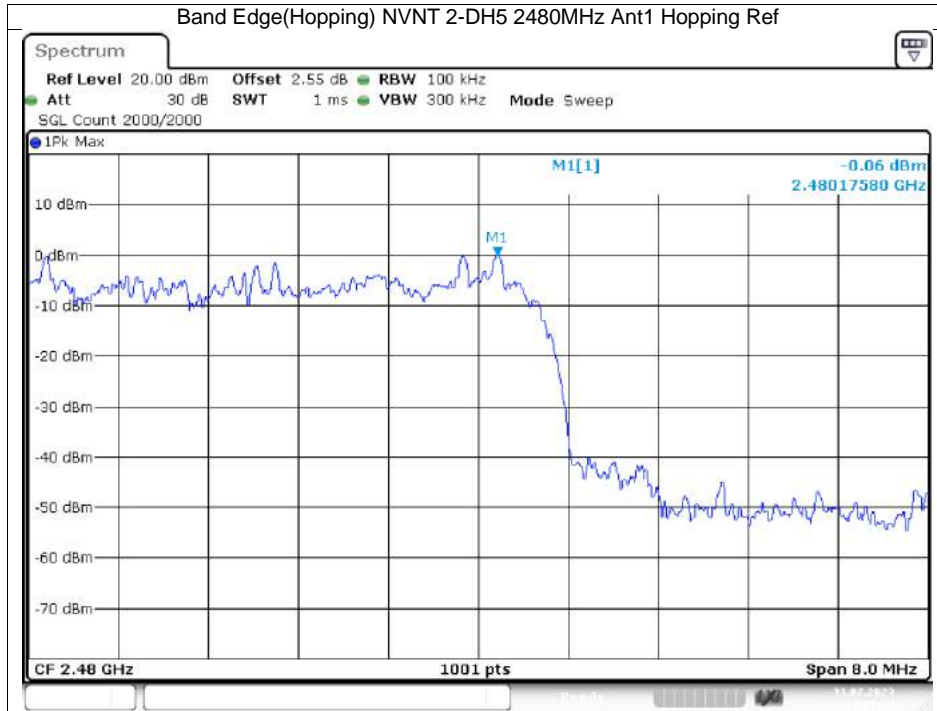
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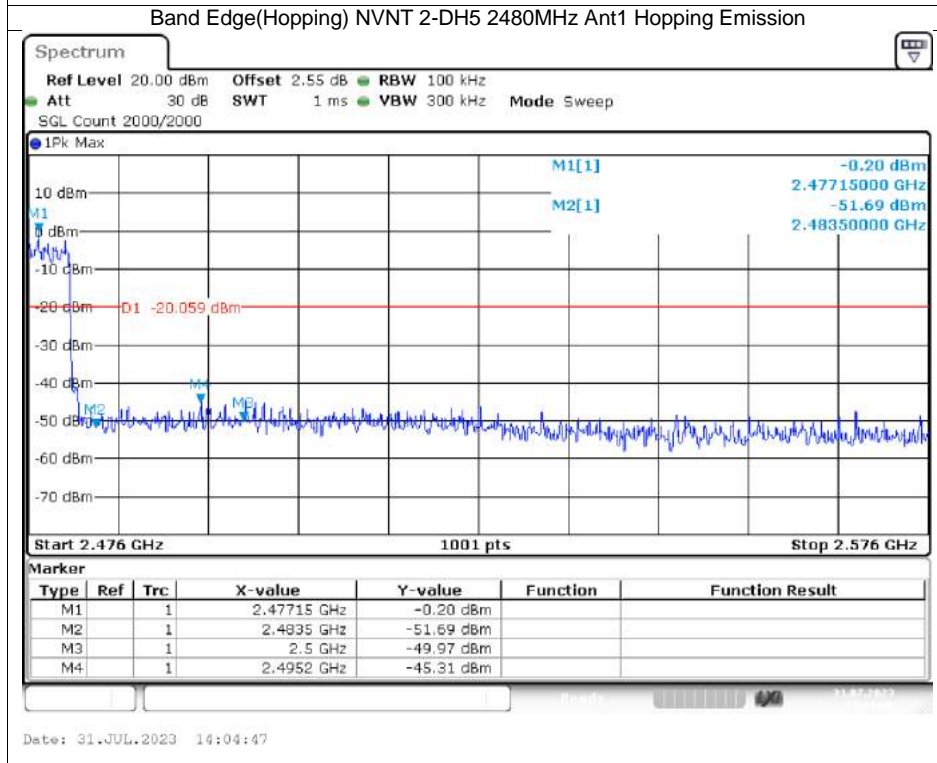


Date: 31.JUL.2023 14:00:58

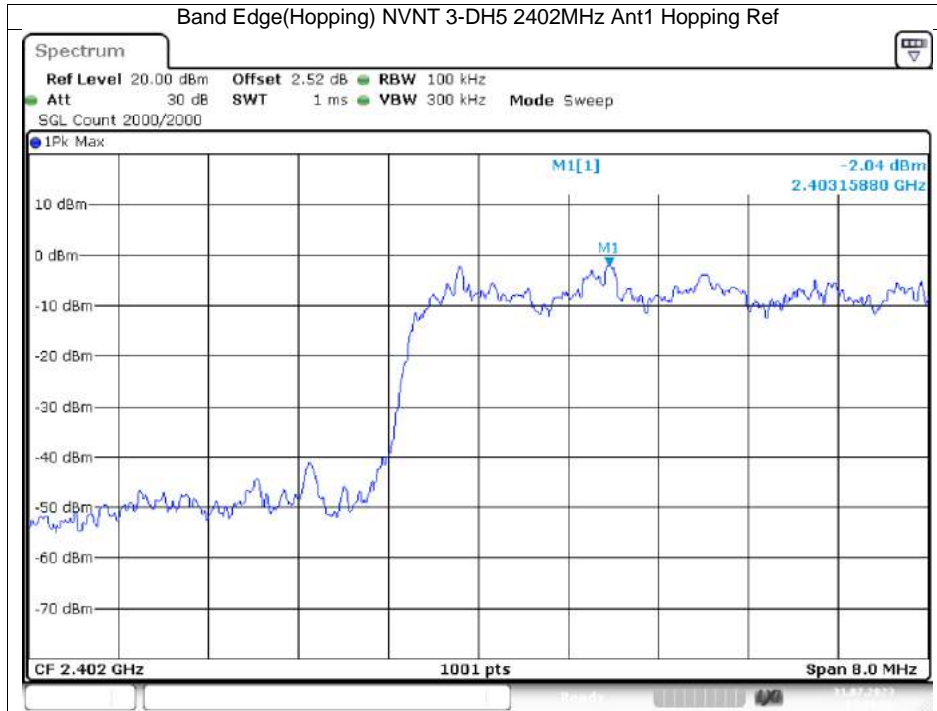




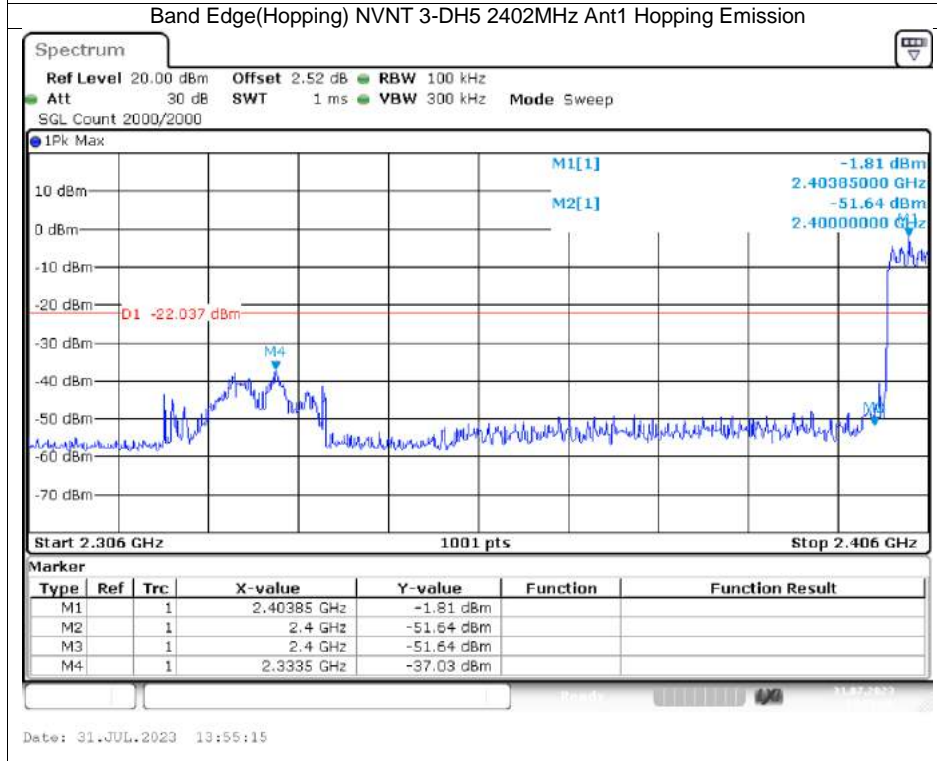
Date: 31.JUL.2023 14:04:33



Date: 31.JUL.2023 14:04:47

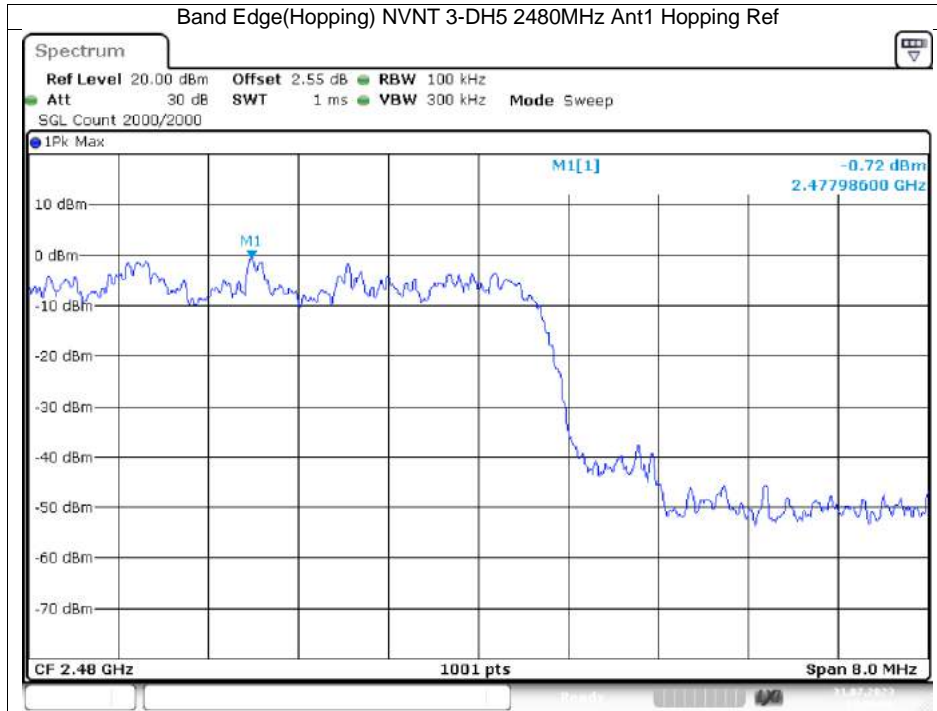


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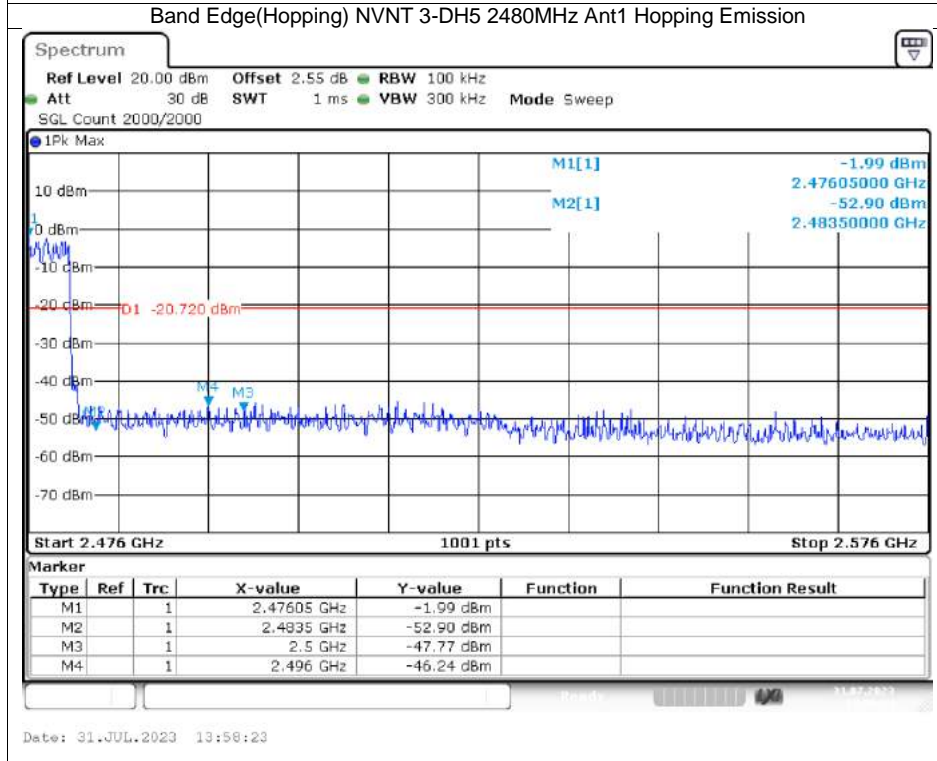


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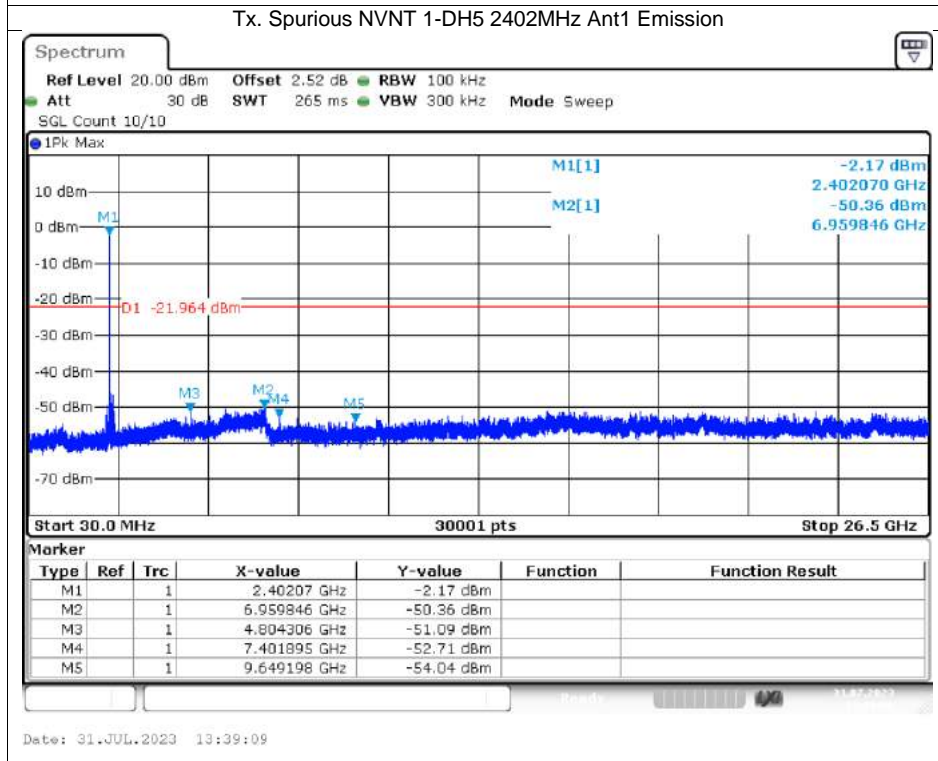
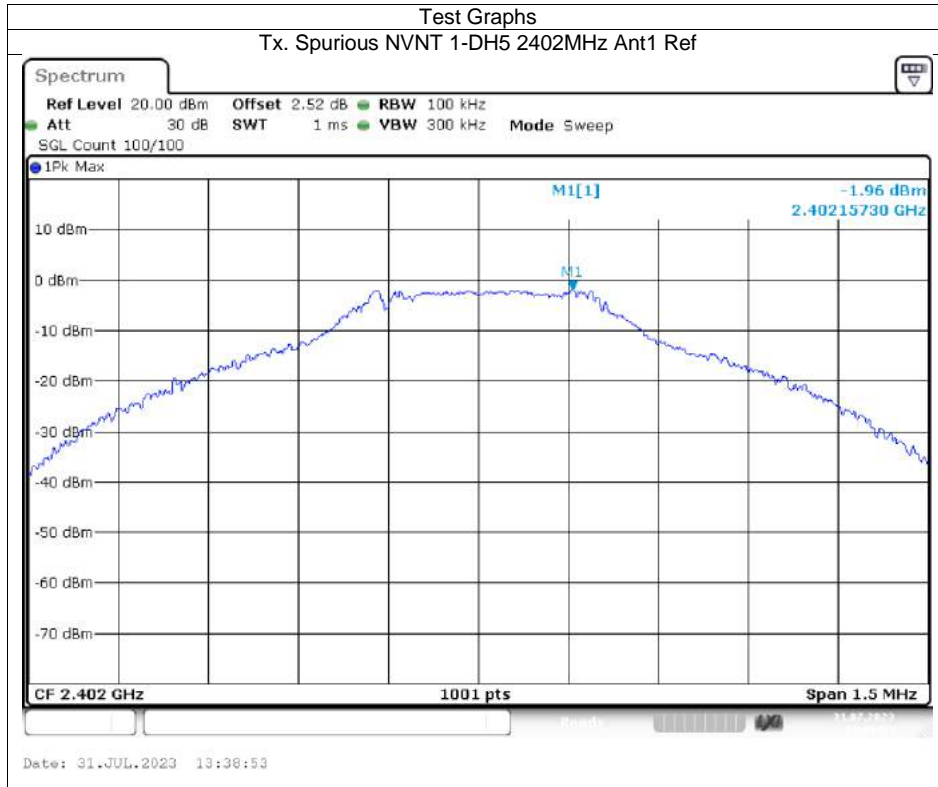


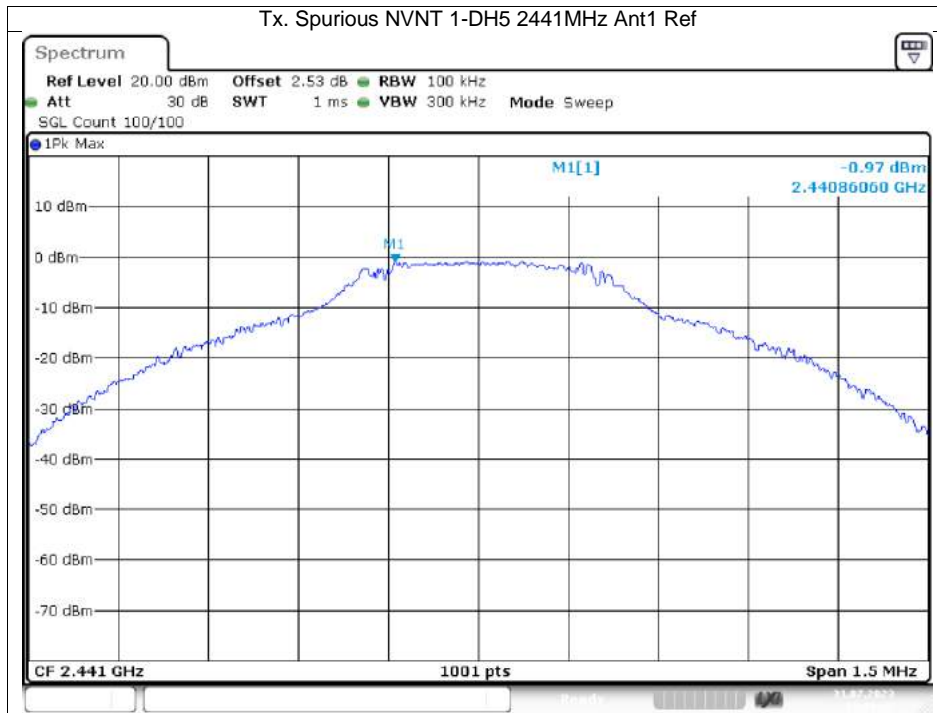
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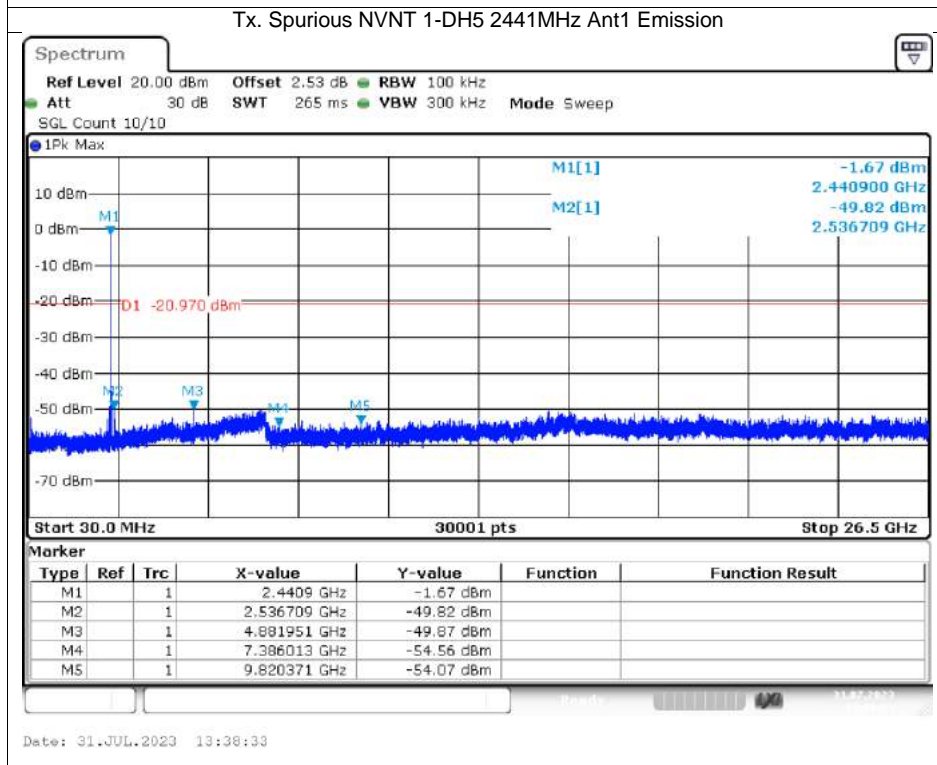
## Appendix I Conducted RF Spurious Emission

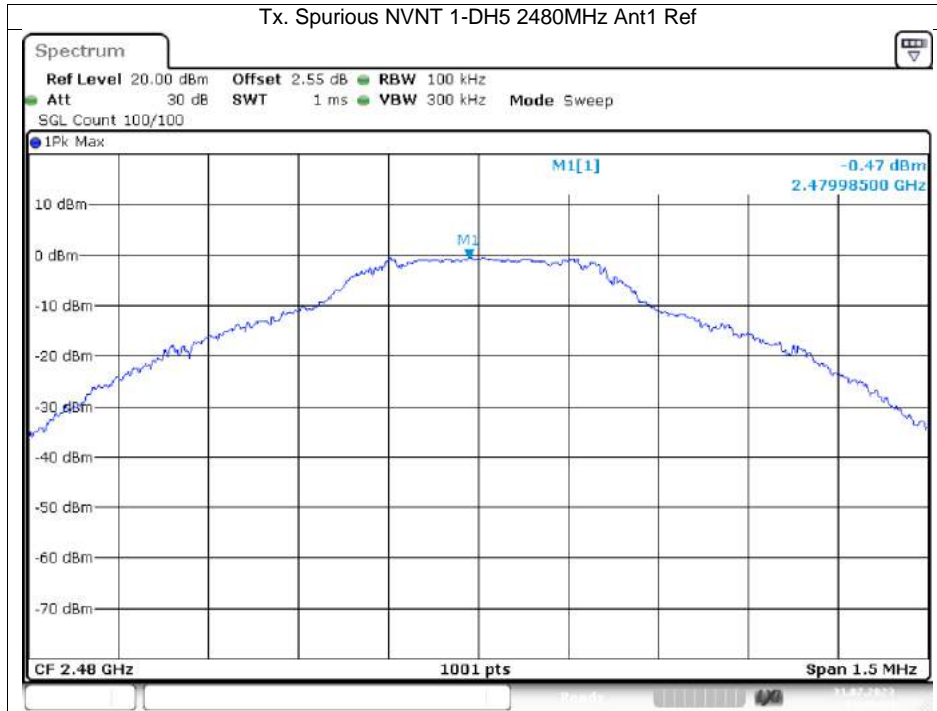
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-48.4	-20	Pass
NVNT	1-DH5	2441	Ant1	-48.84	-20	Pass
NVNT	1-DH5	2480	Ant1	-46.77	-20	Pass
NVNT	2-DH5	2402	Ant1	-48.16	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.42	-20	Pass
NVNT	2-DH5	2480	Ant1	-47.21	-20	Pass
NVNT	3-DH5	2402	Ant1	-47.81	-20	Pass
NVNT	3-DH5	2441	Ant1	-26.23	-20	Pass
NVNT	3-DH5	2480	Ant1	-44.42	-20	Pass



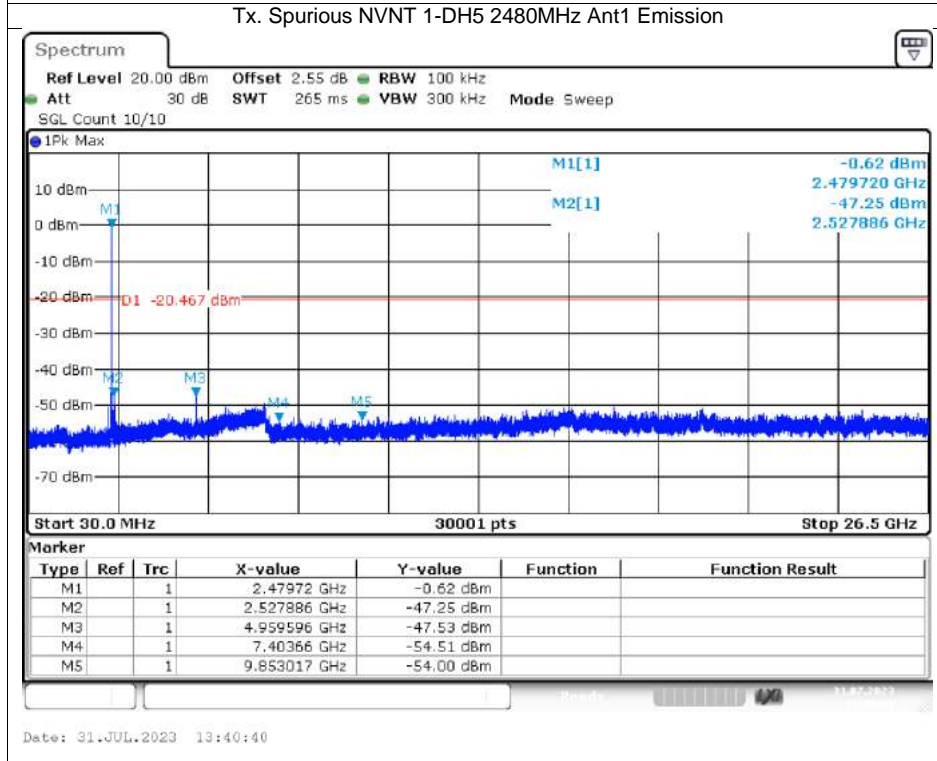


Date: 31.JUL.2023 13:38:17

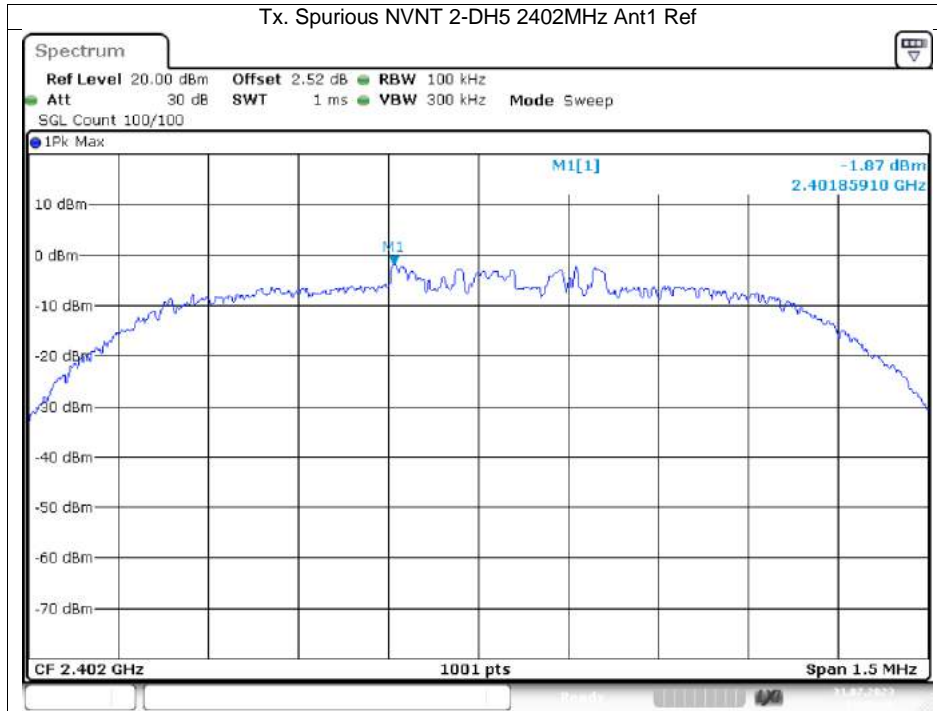




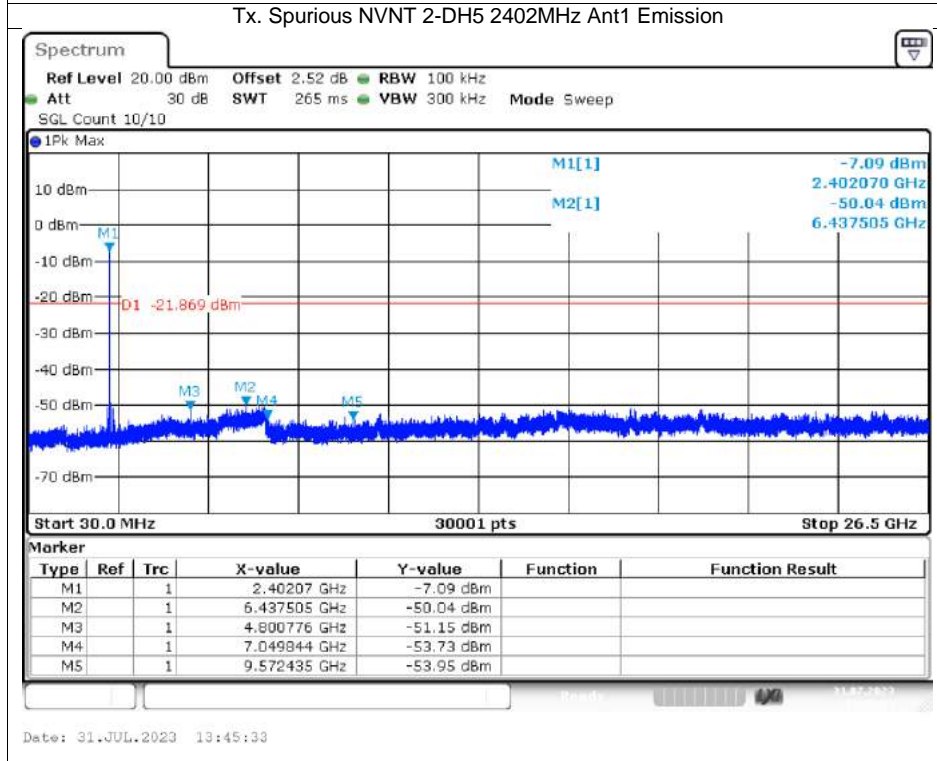
Date: 31.JUL.2023 13:40:25



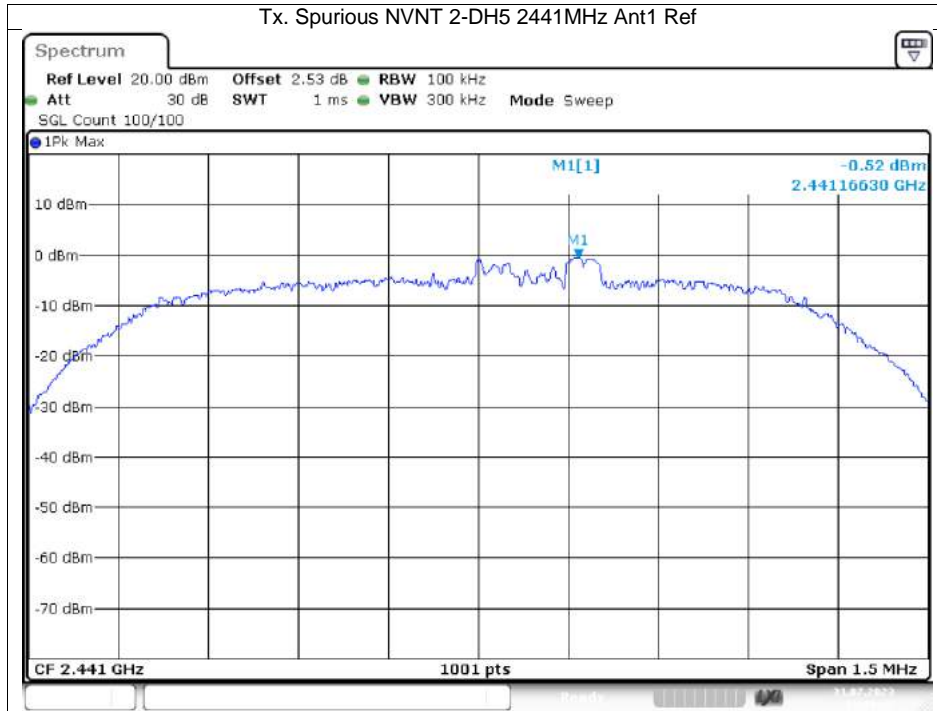
Date: 31.JUL.2023 13:40:40



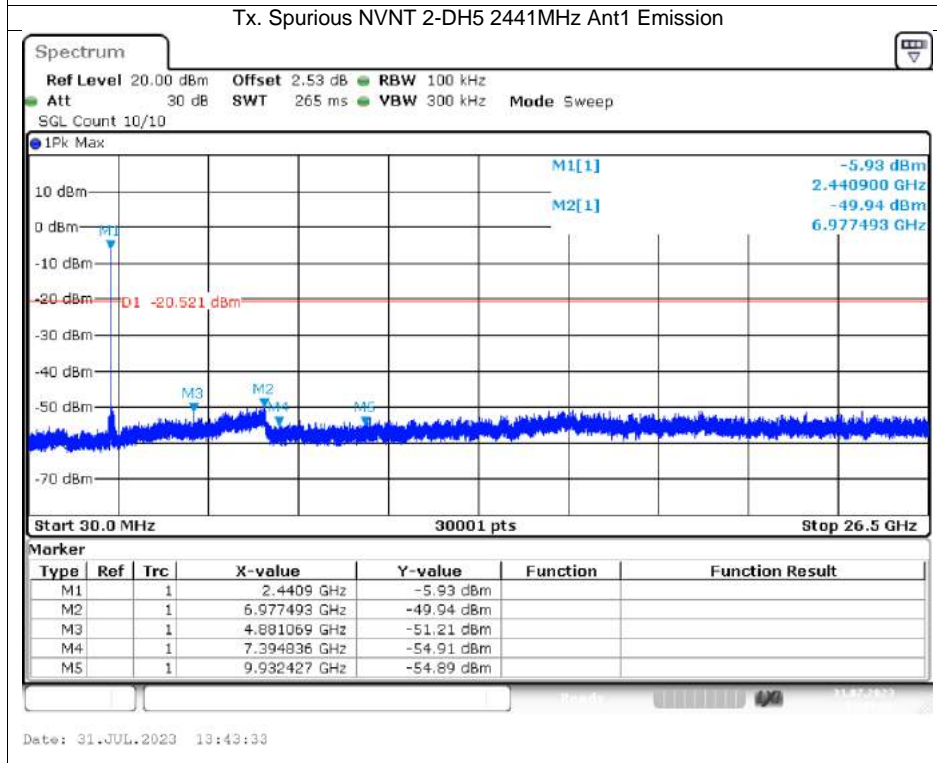
Date: 31.JUL.2023 13:45:18

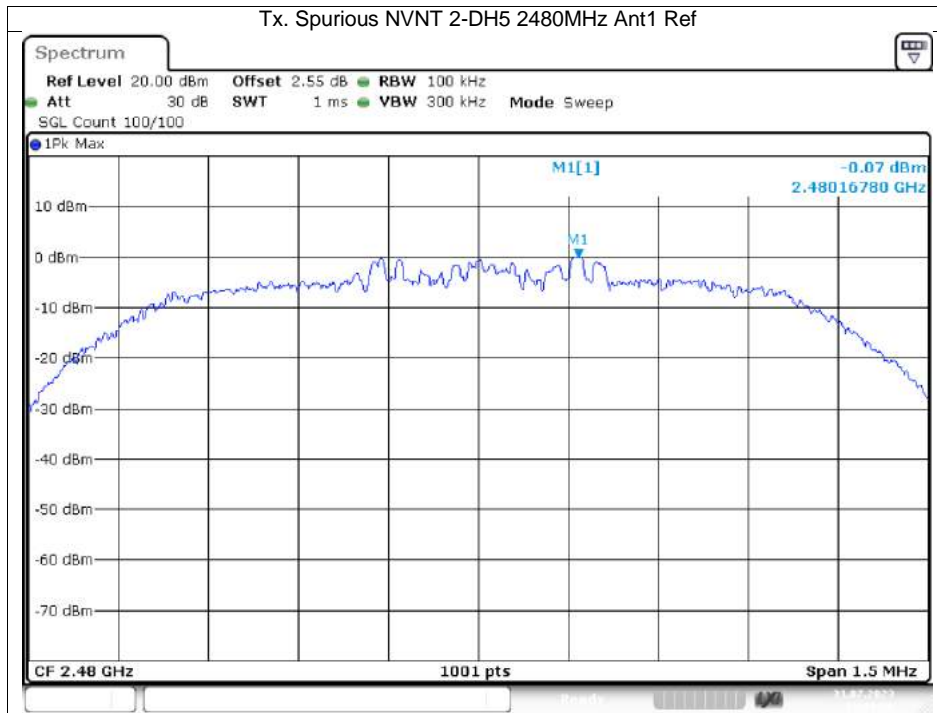


Date: 31.JUL.2023 13:45:33

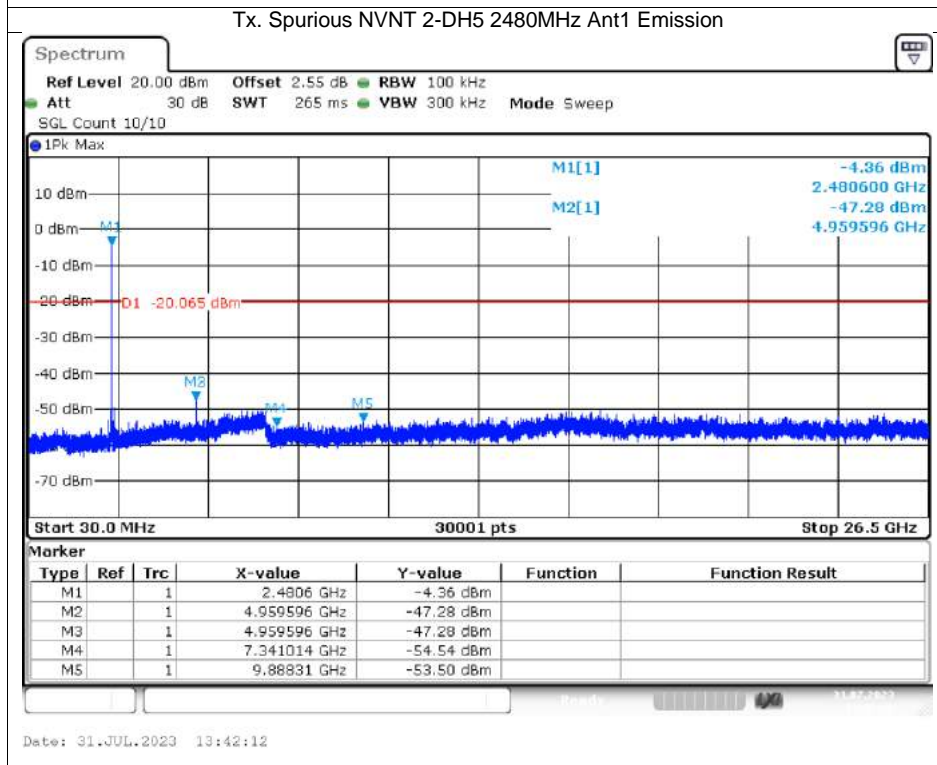


Date: 31.JUL.2023 13:43:17

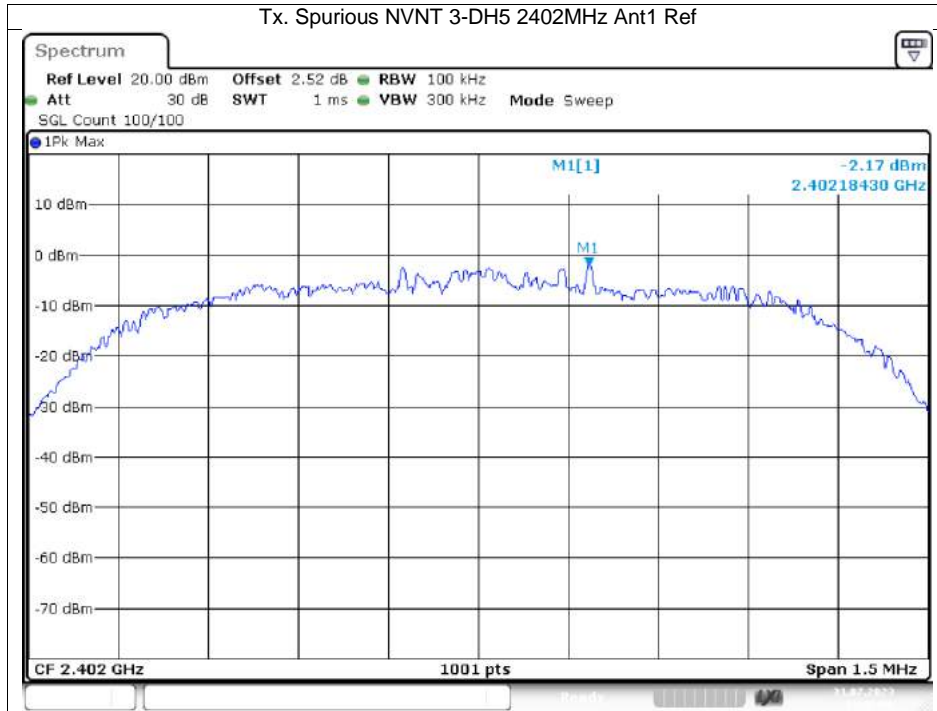




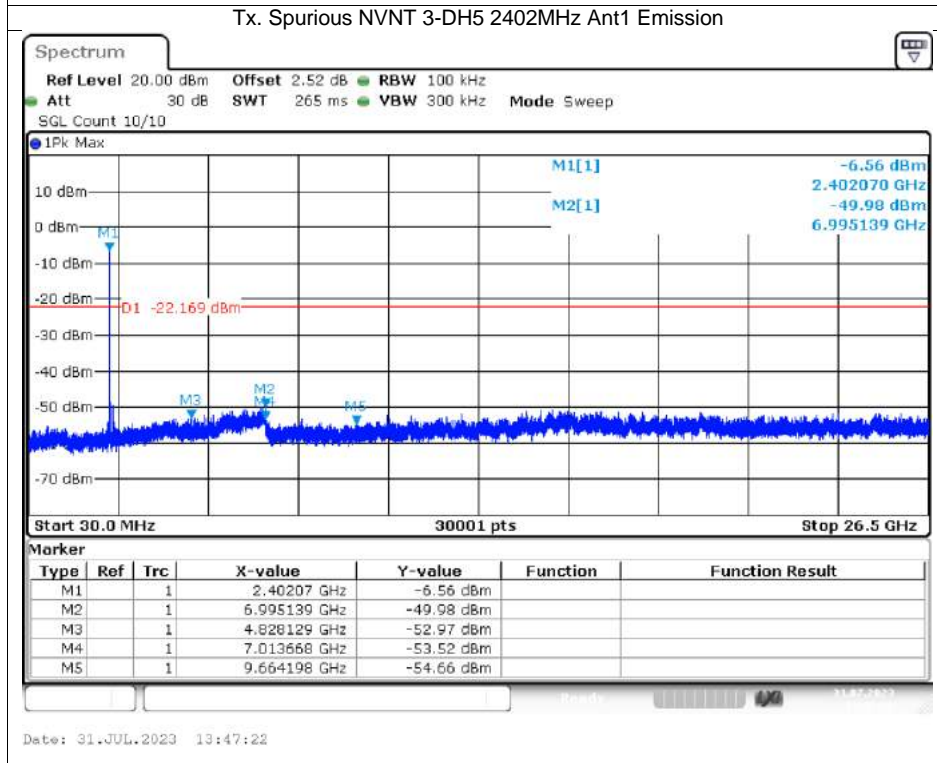
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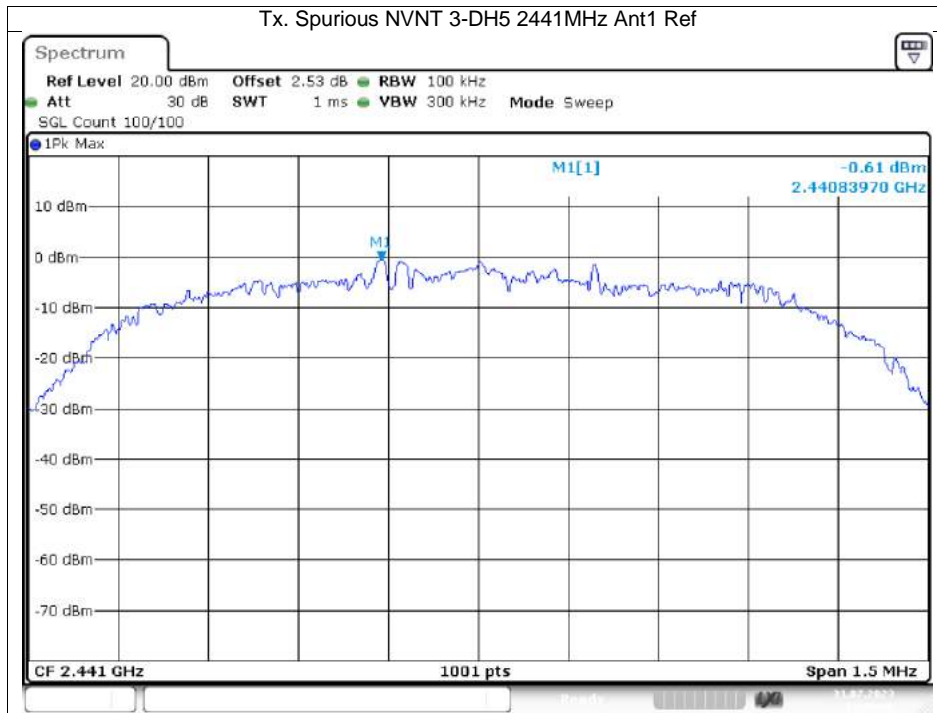




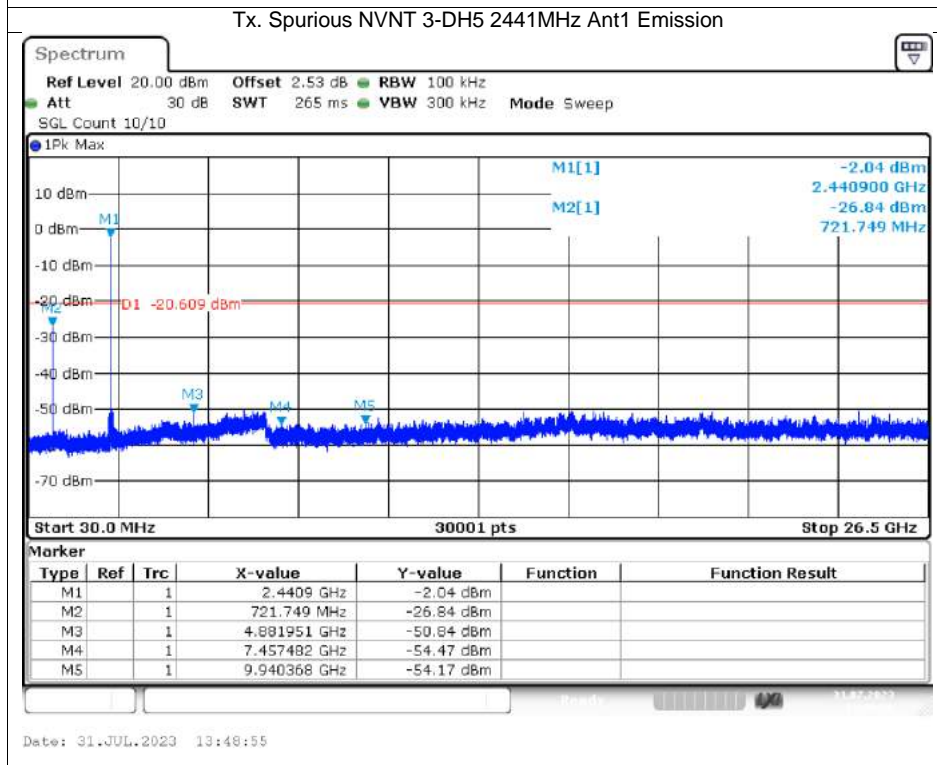


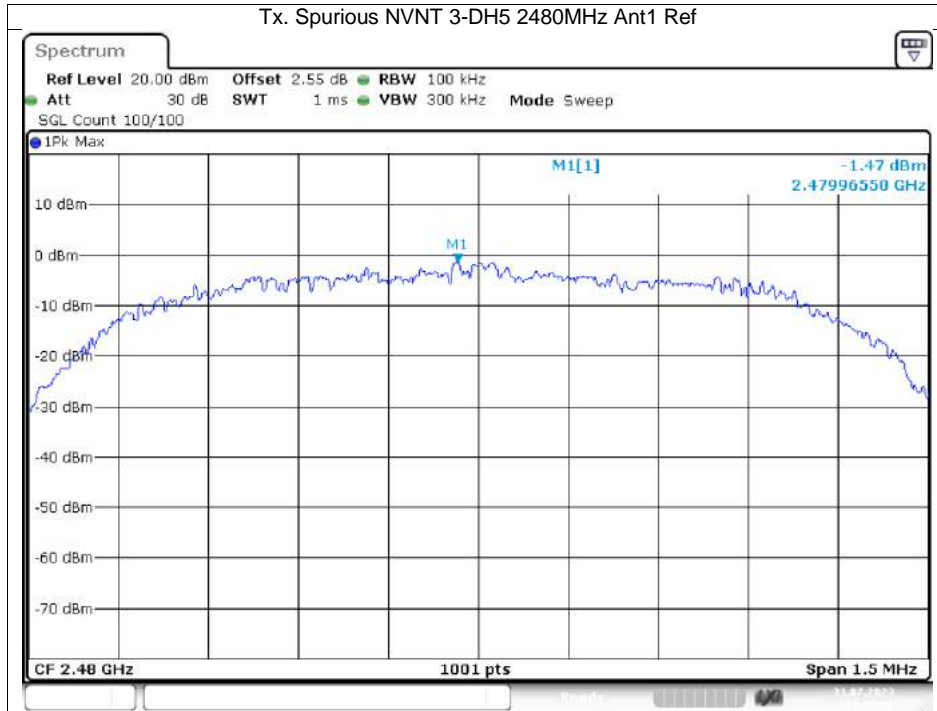
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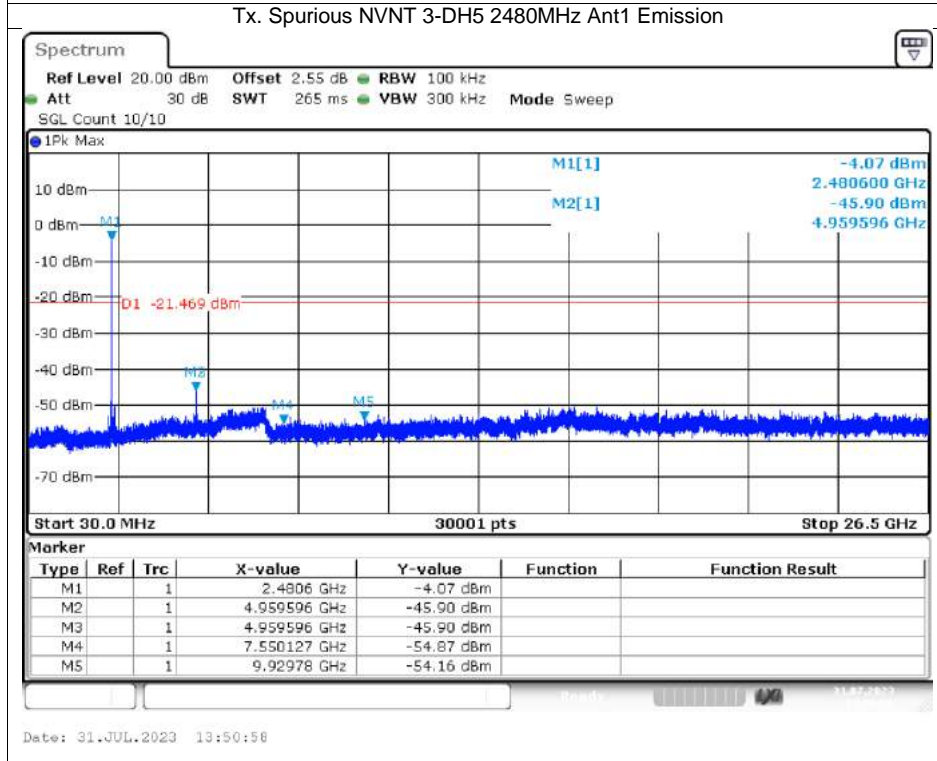


Date: 31.JUL.2023 13:48:40





Date: 31.JUL.2023 13:50:42



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