



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: POS Terminal

Test Model: P2000L

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan



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A.1 -20dB Bandwidth

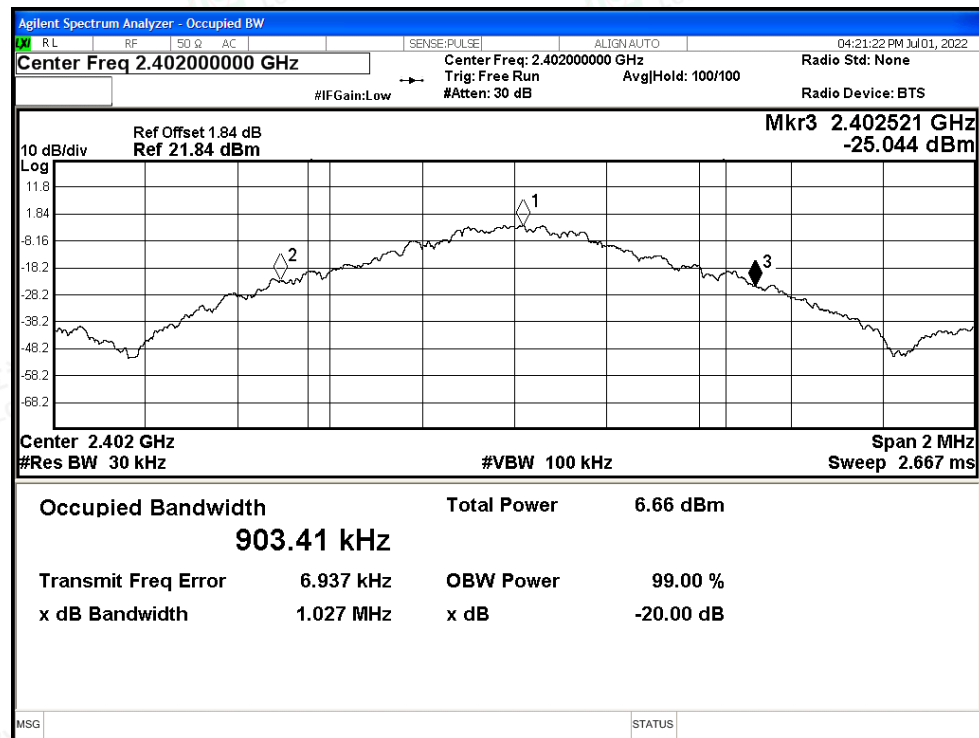
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.027	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.955	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.96	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.28	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.29	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.28	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.301	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.302	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.303	N/A	Pass



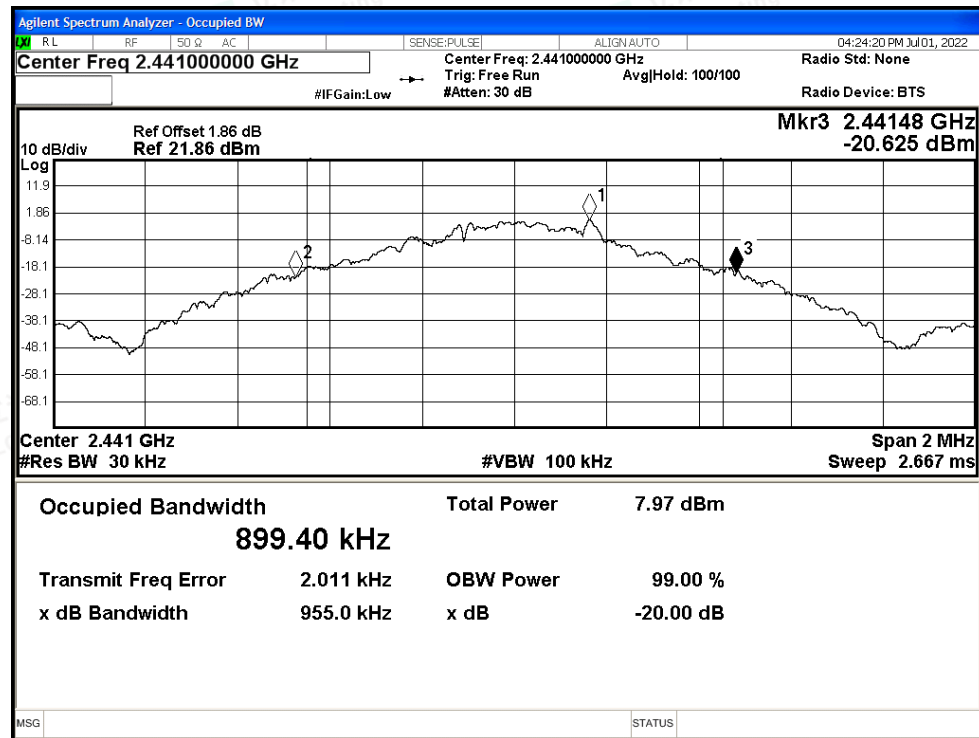


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

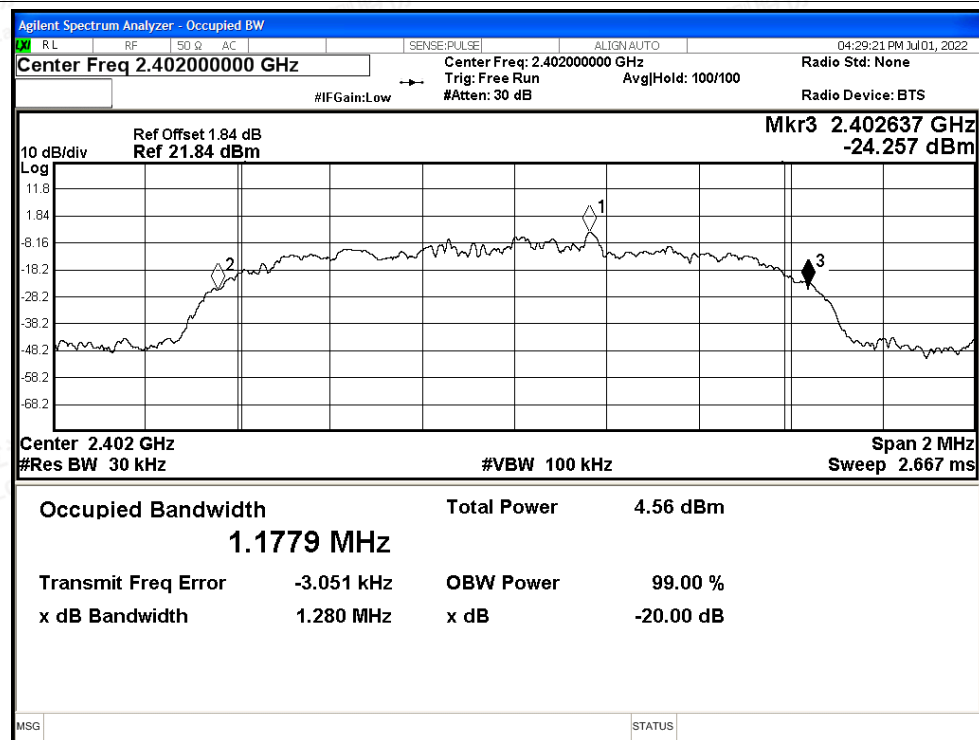




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

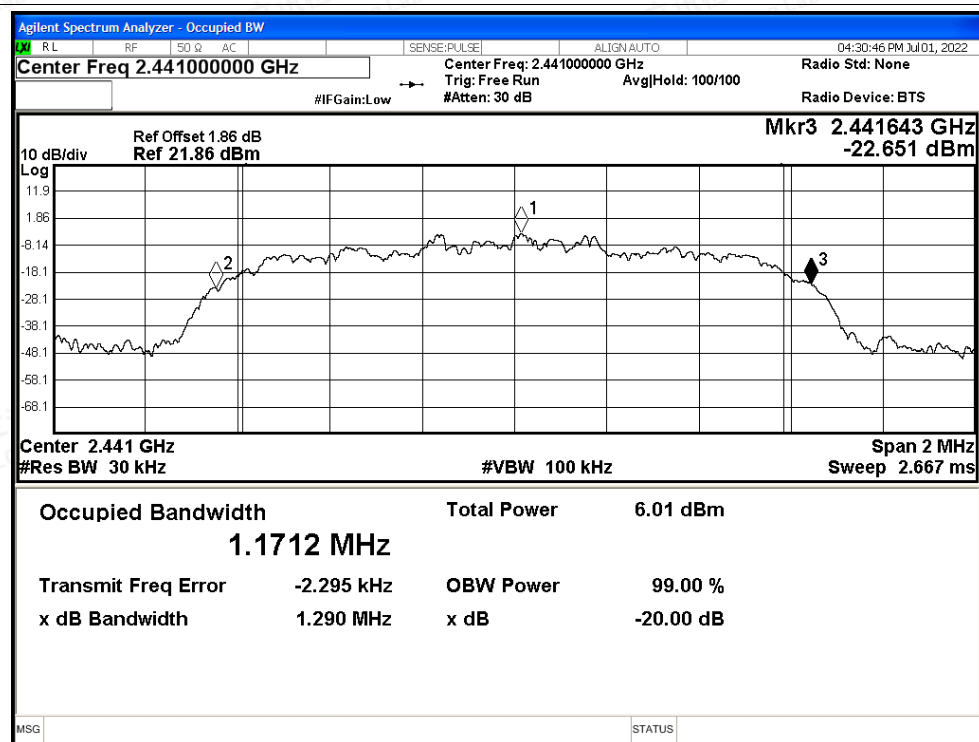


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

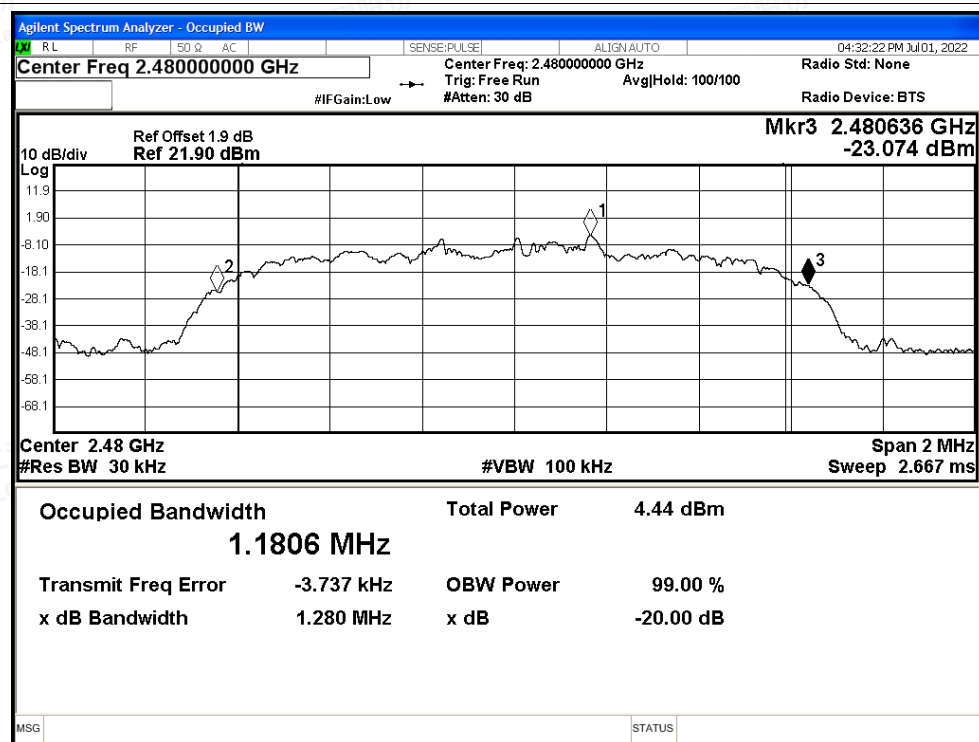




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

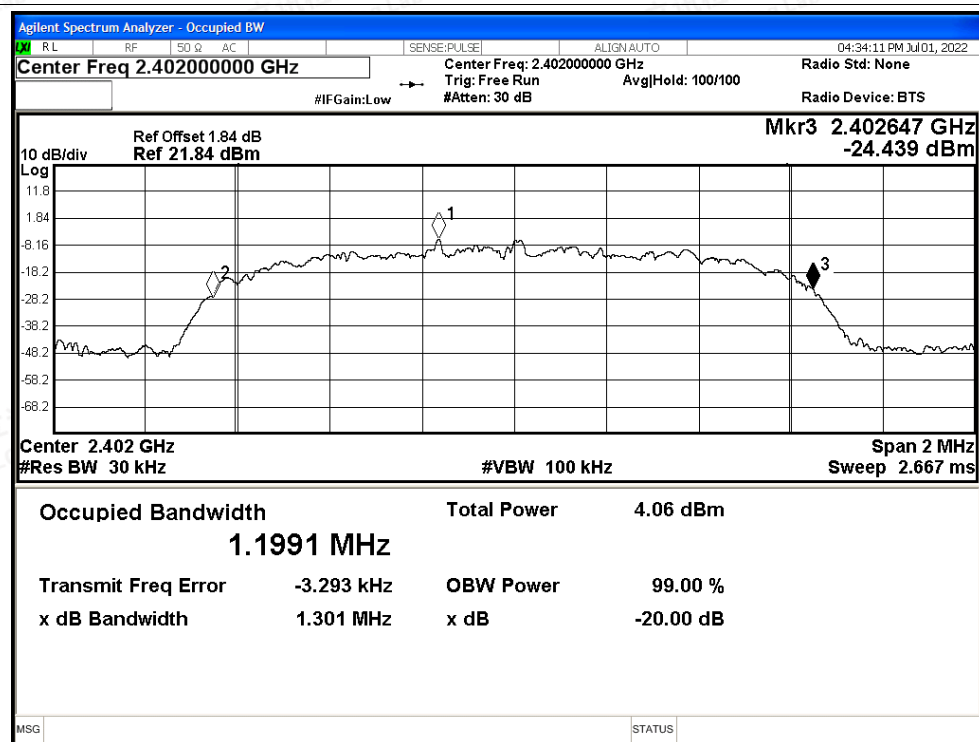


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

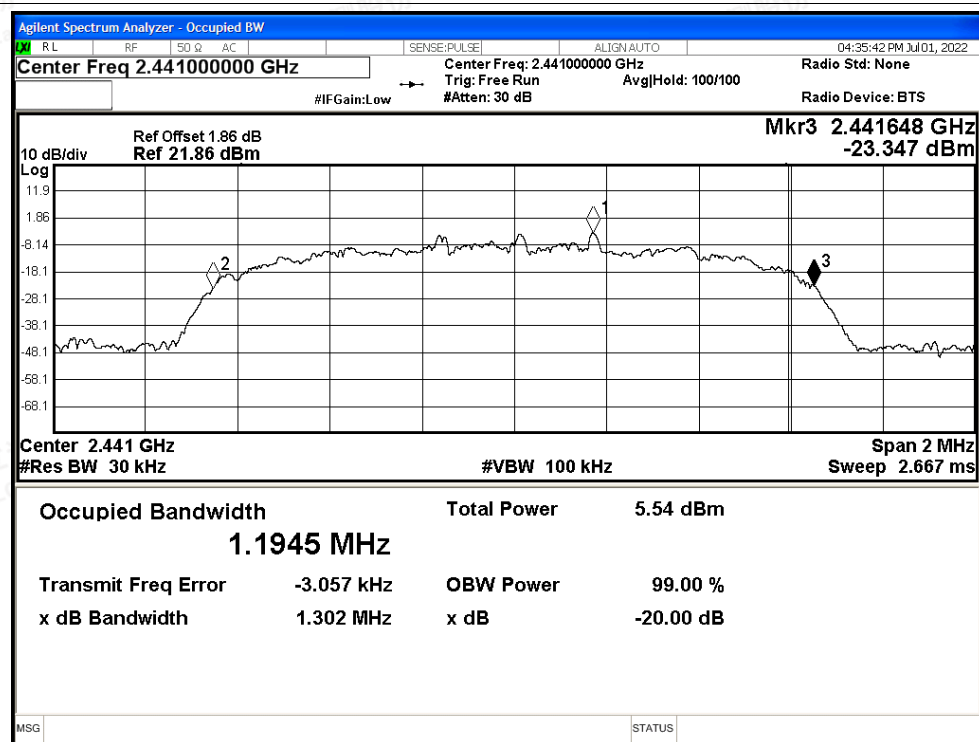


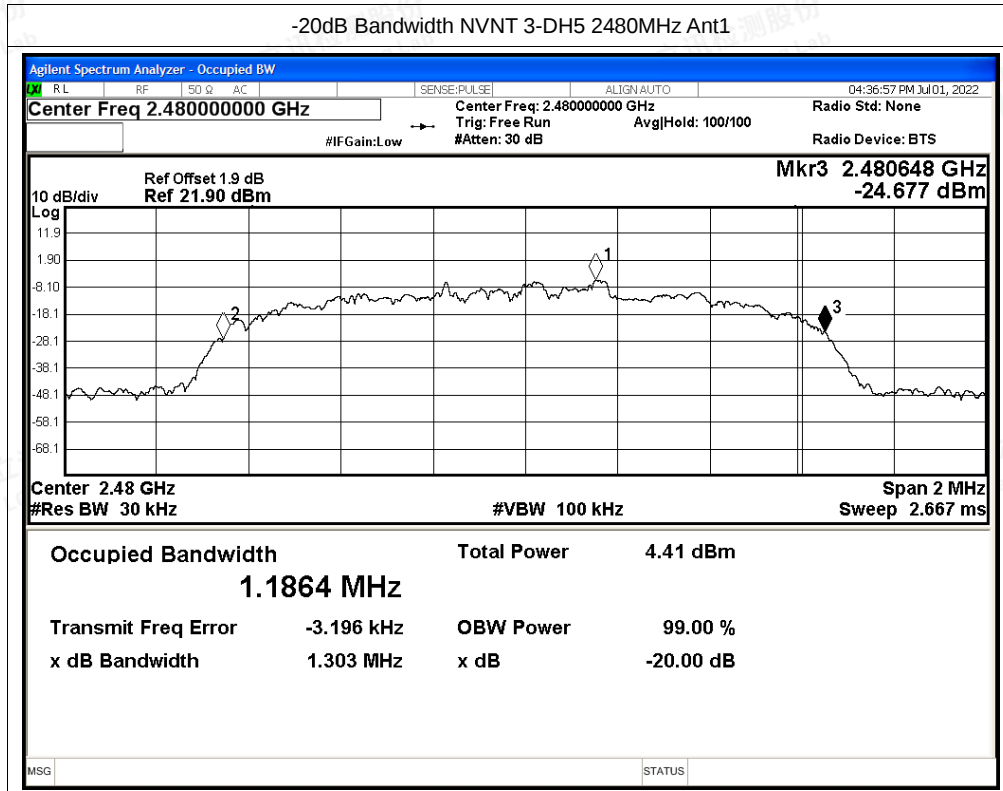


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Peak Conducted Output Power

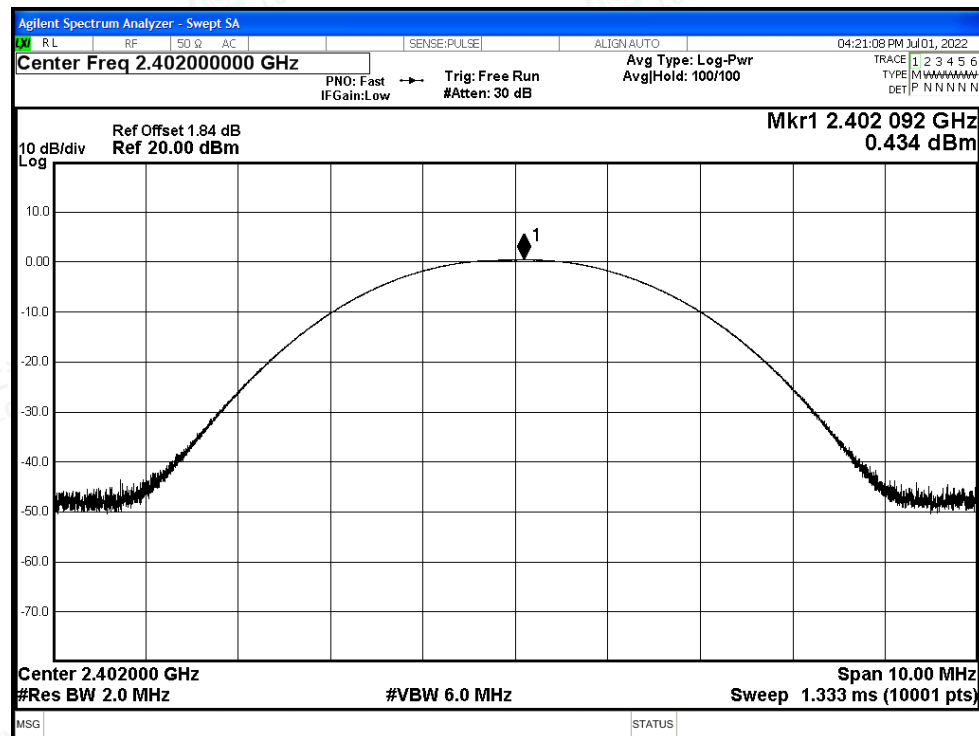
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.43	21	Pass
NVNT	1-DH5	2441	Ant1	1.72	21	Pass
NVNT	1-DH5	2480	Ant1	0.24	21	Pass
NVNT	2-DH5	2402	Ant1	-0.43	21	Pass
NVNT	2-DH5	2441	Ant1	0.8	21	Pass
NVNT	2-DH5	2480	Ant1	-0.63	21	Pass
NVNT	3-DH5	2402	Ant1	-0.31	21	Pass
NVNT	3-DH5	2441	Ant1	0.93	21	Pass
NVNT	3-DH5	2480	Ant1	-0.48	21	Pass



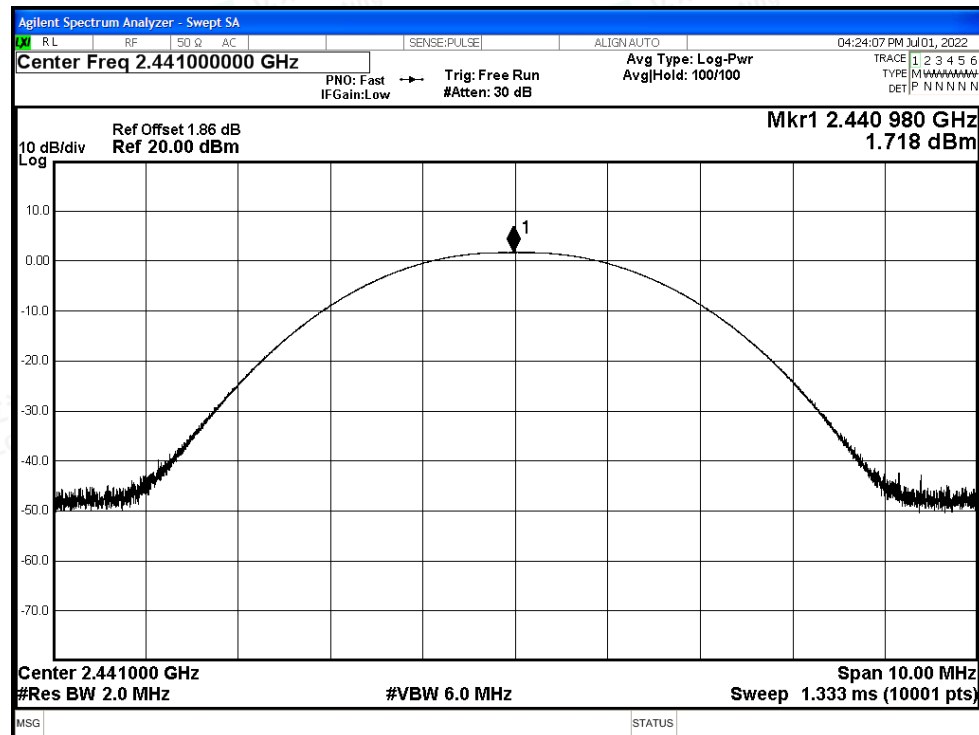


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

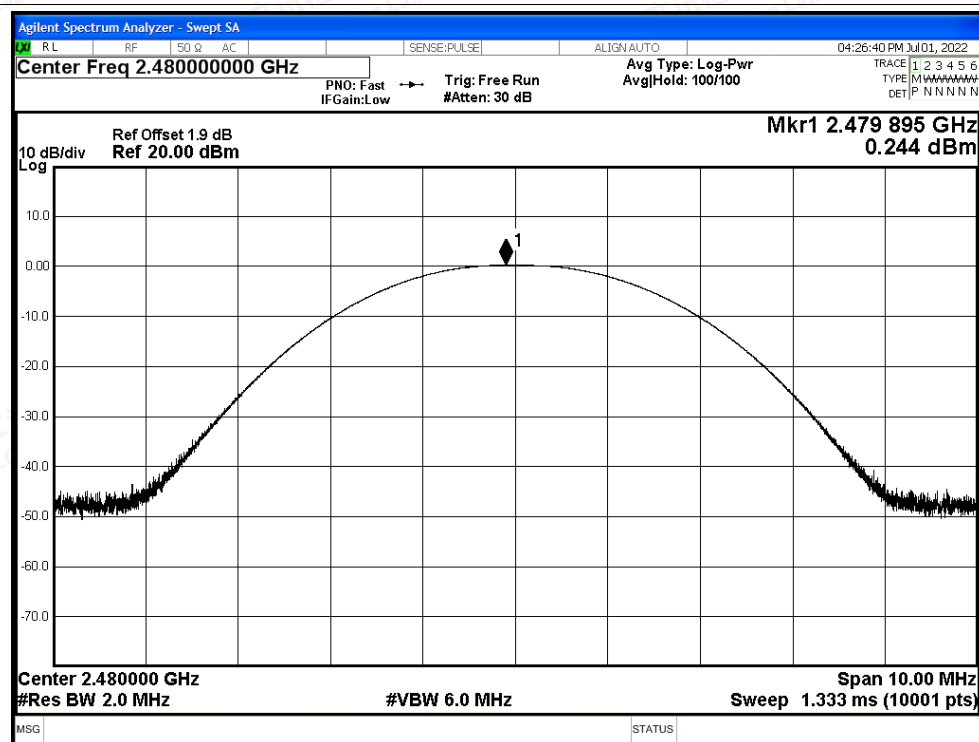


Power NVNT 1-DH5 2441MHz Ant1

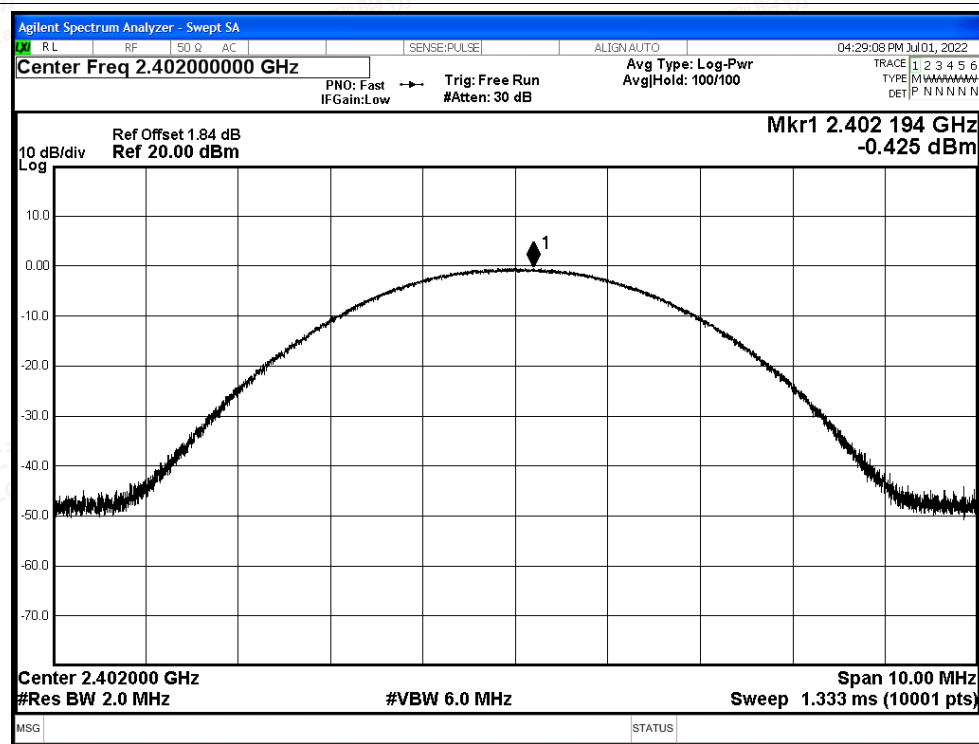




Power NVNT 1-DH5 2480MHz Ant1

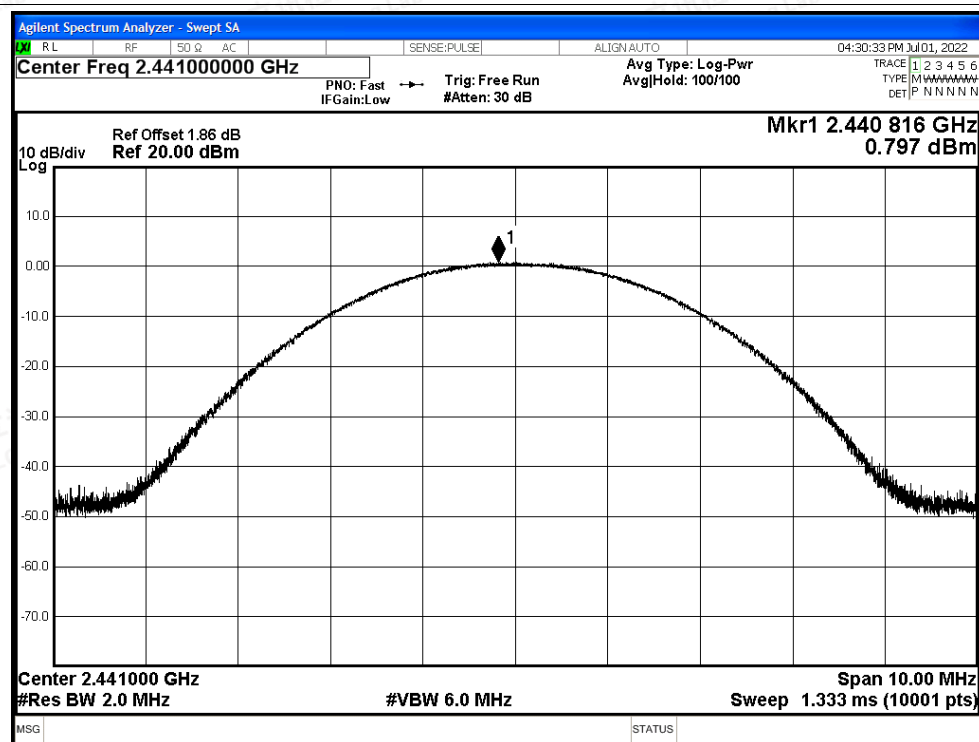


Power NVNT 2-DH5 2402MHz Ant1

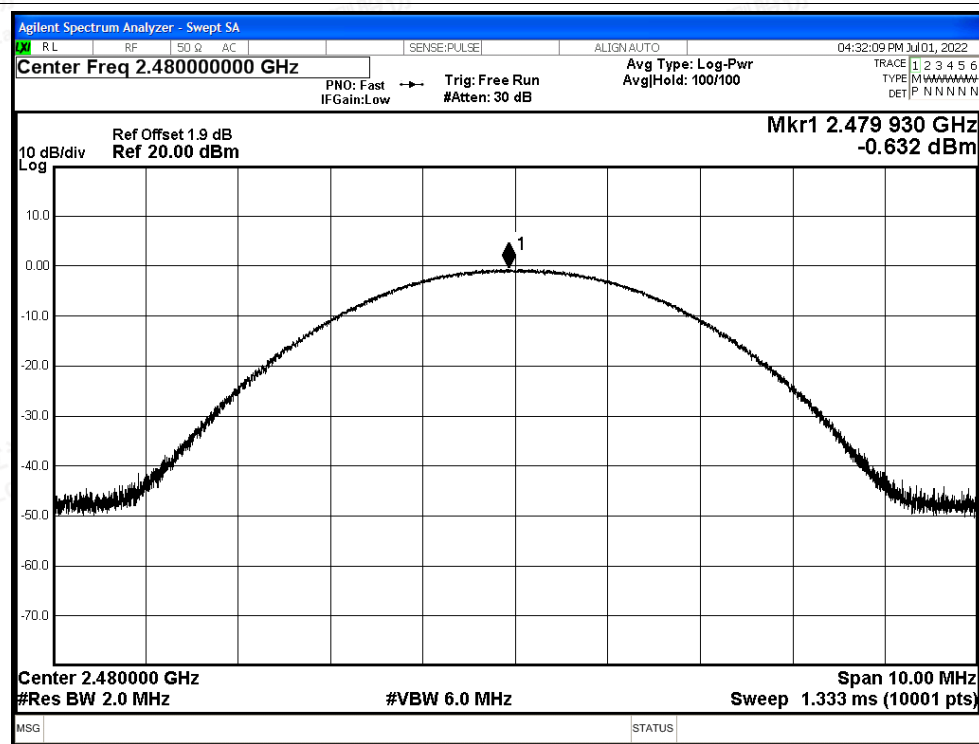




Power NVNT 2-DH5 2441MHz Ant1

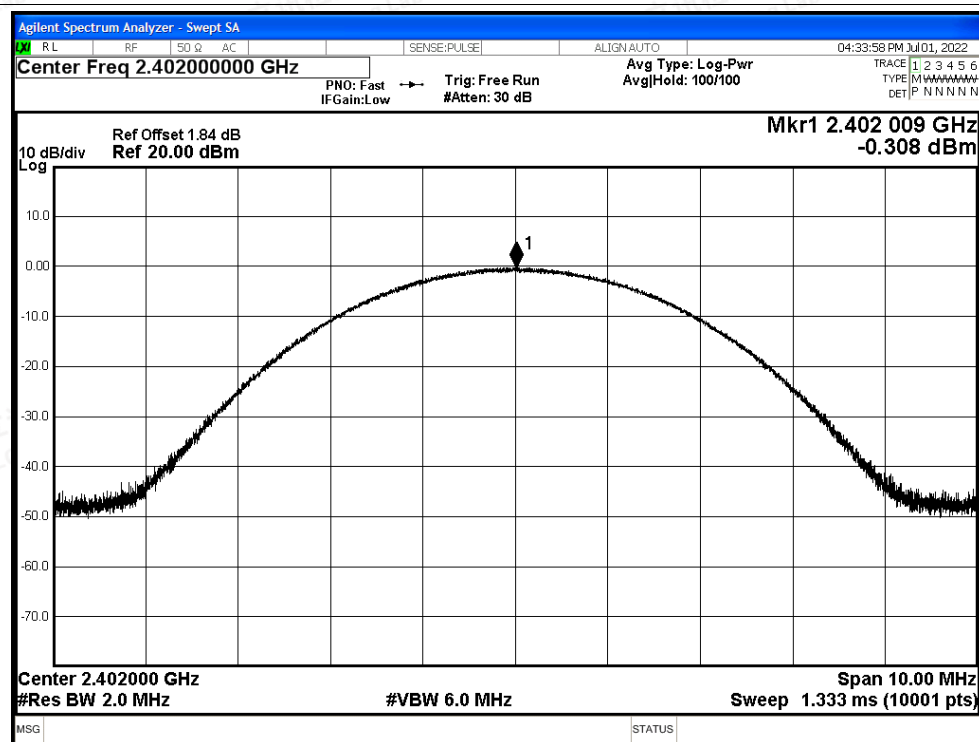


Power NVNT 2-DH5 2480MHz Ant1

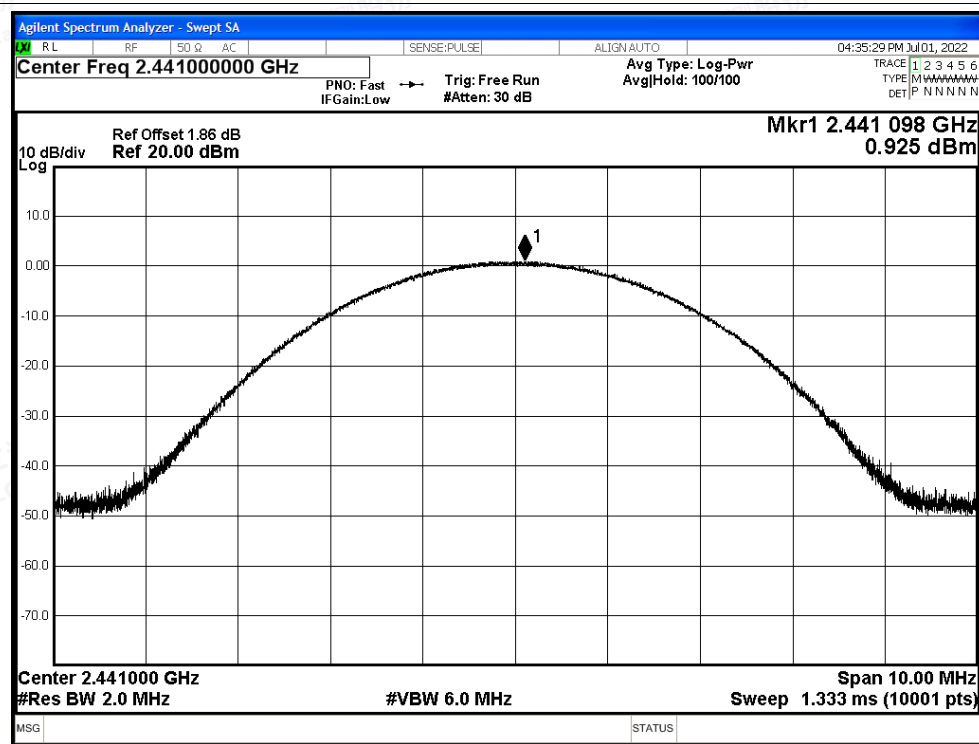


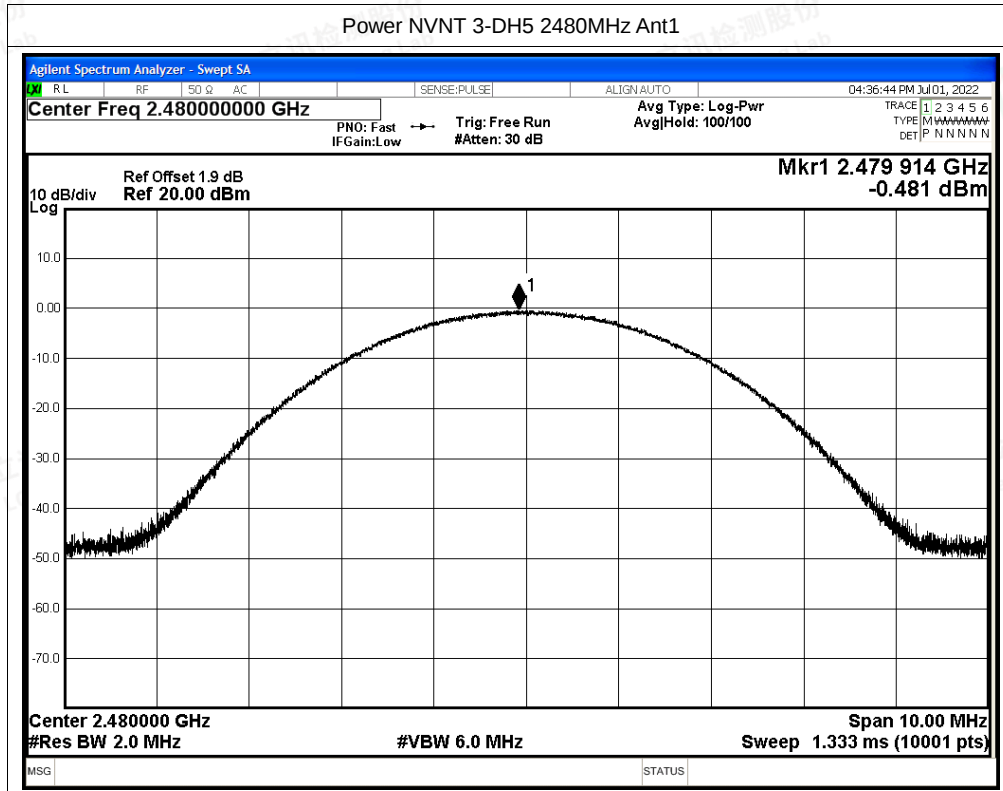


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

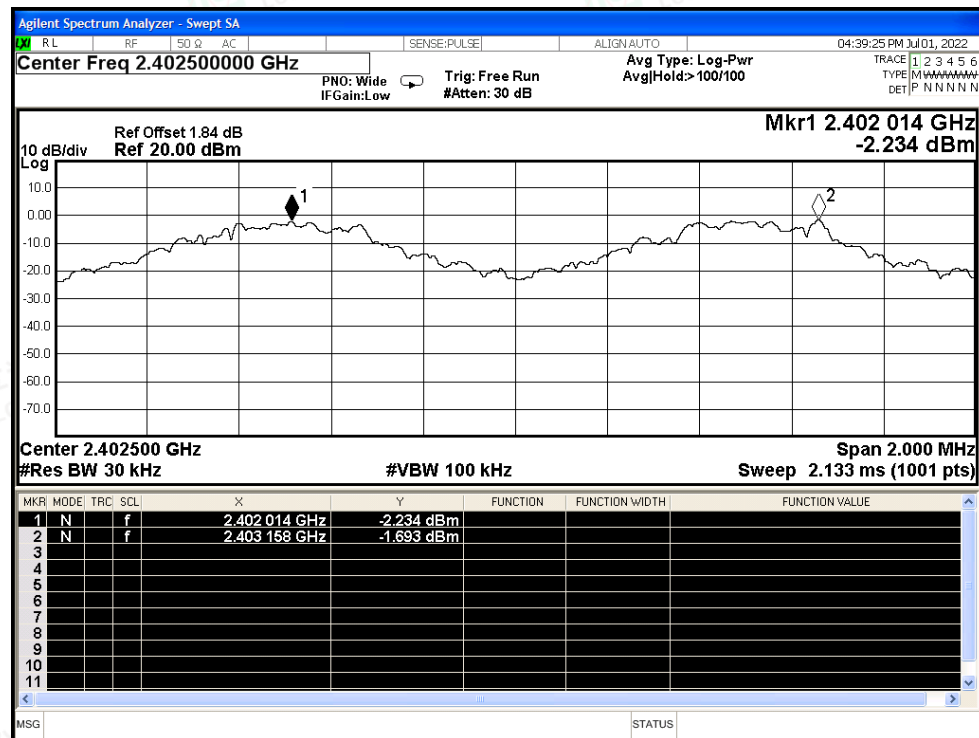
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.014	2403.158	1.144	0.685	Pass
NVNT	2-DH5	Ant1	2401.958	2403	1.042	0.853	Pass
NVNT	3-DH5	Ant1	2402.154	2403.154	1	0.867	Pass



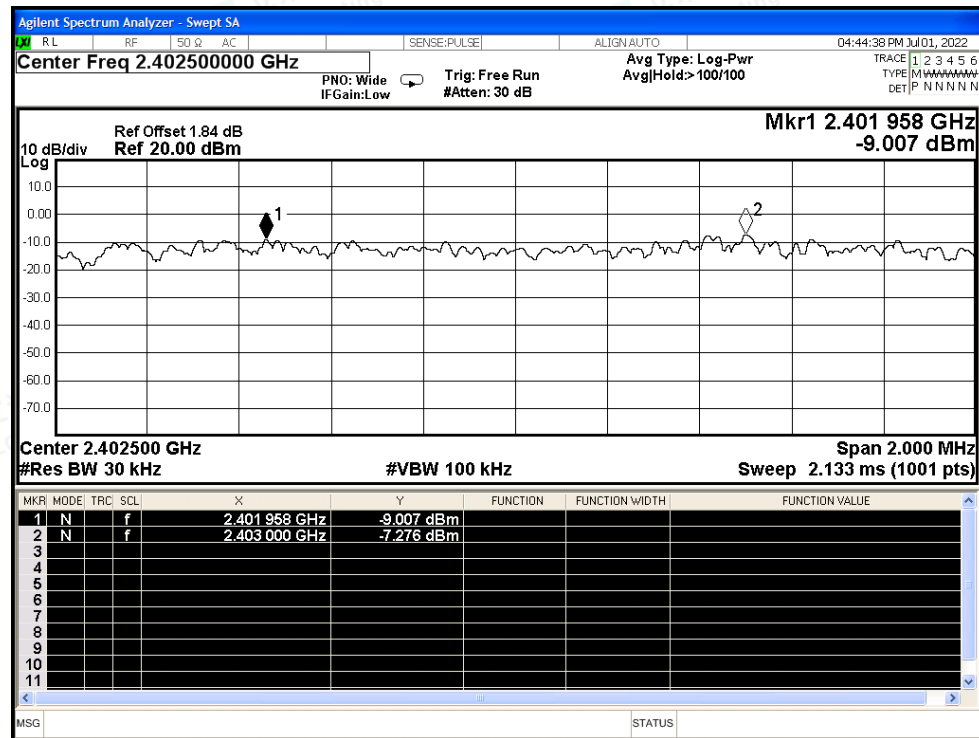


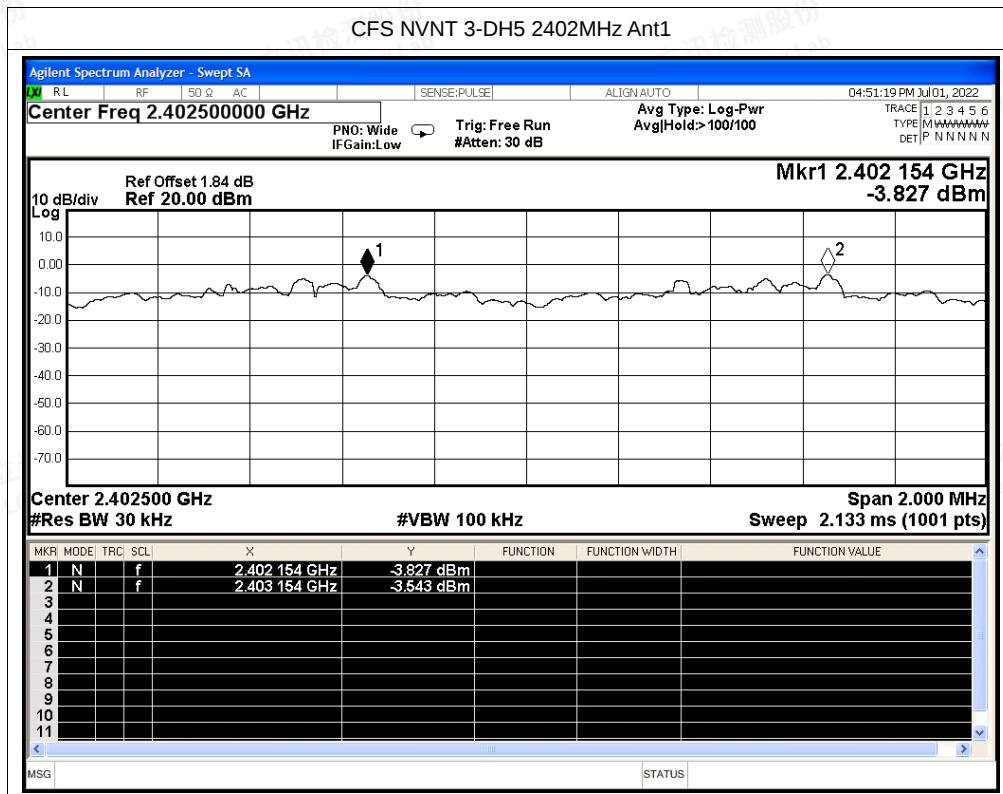
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

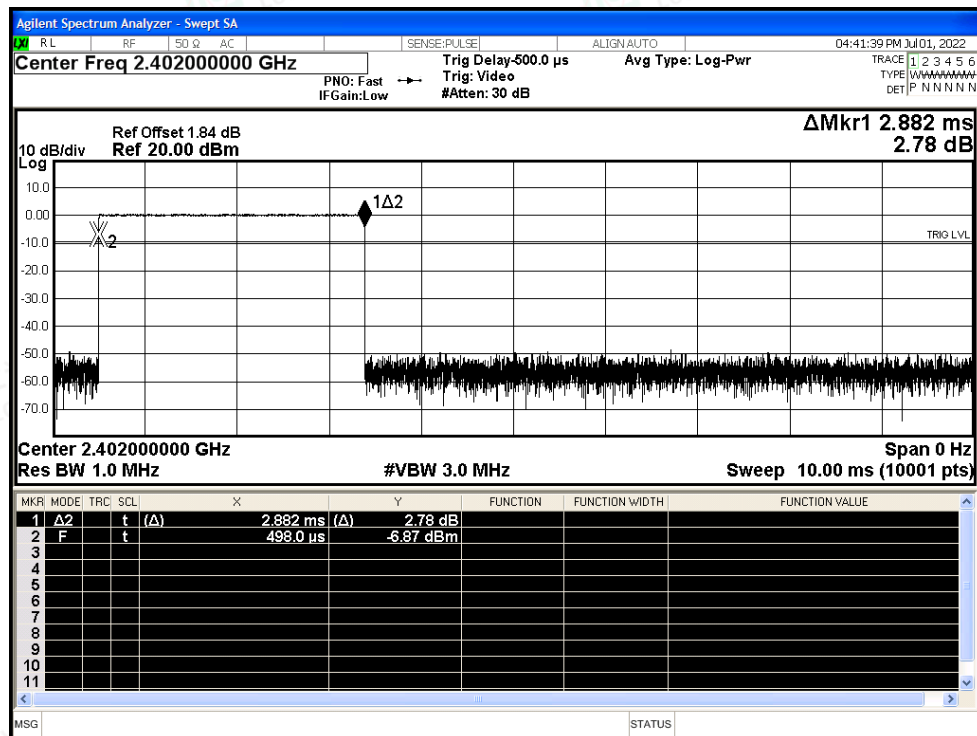
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	302.61	105	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.882	293.964	102	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	314.574	109	31600	400	Pass



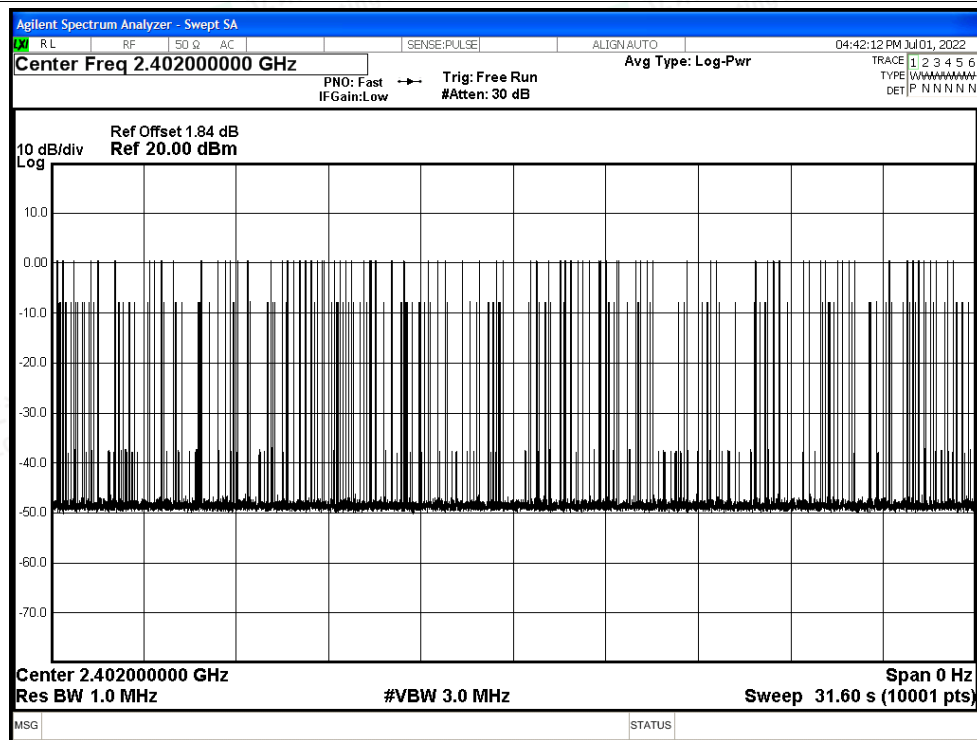


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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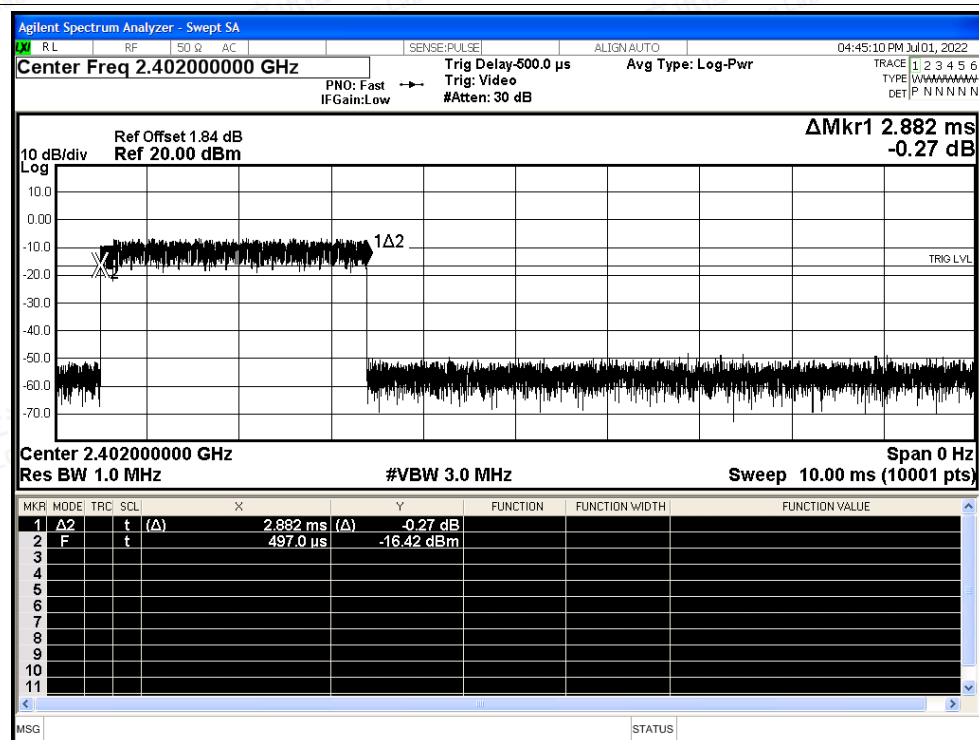
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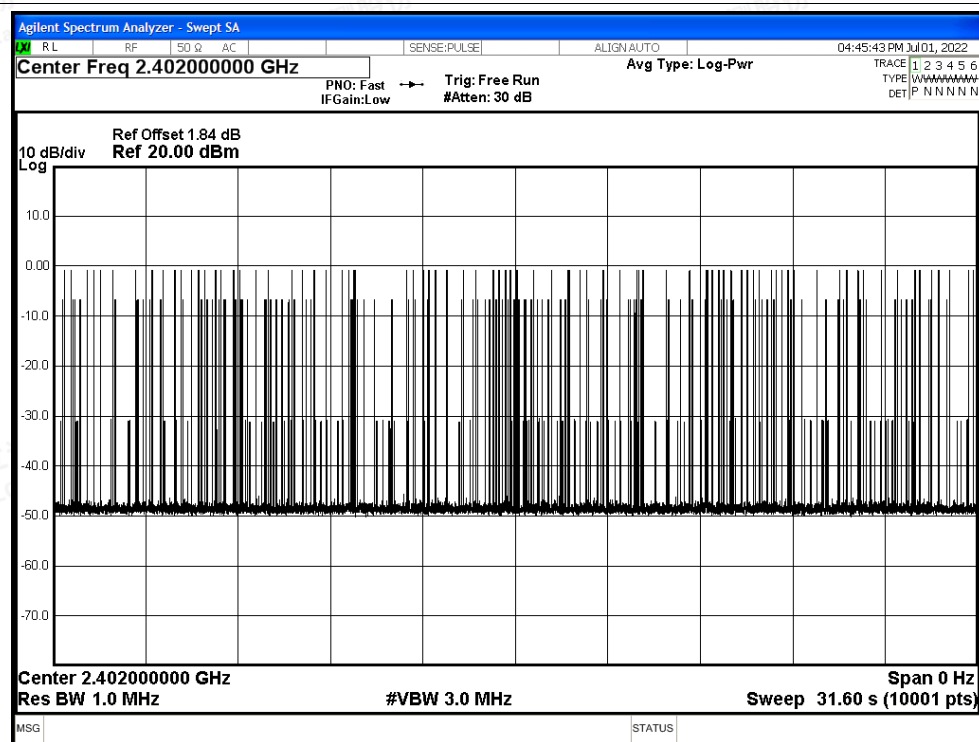
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

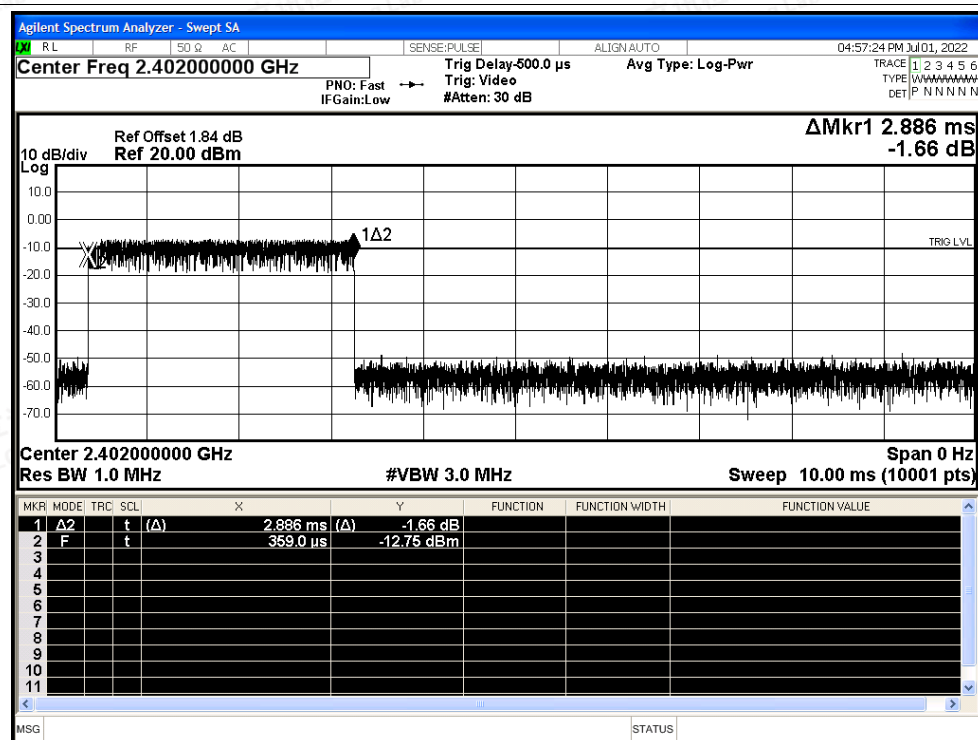


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

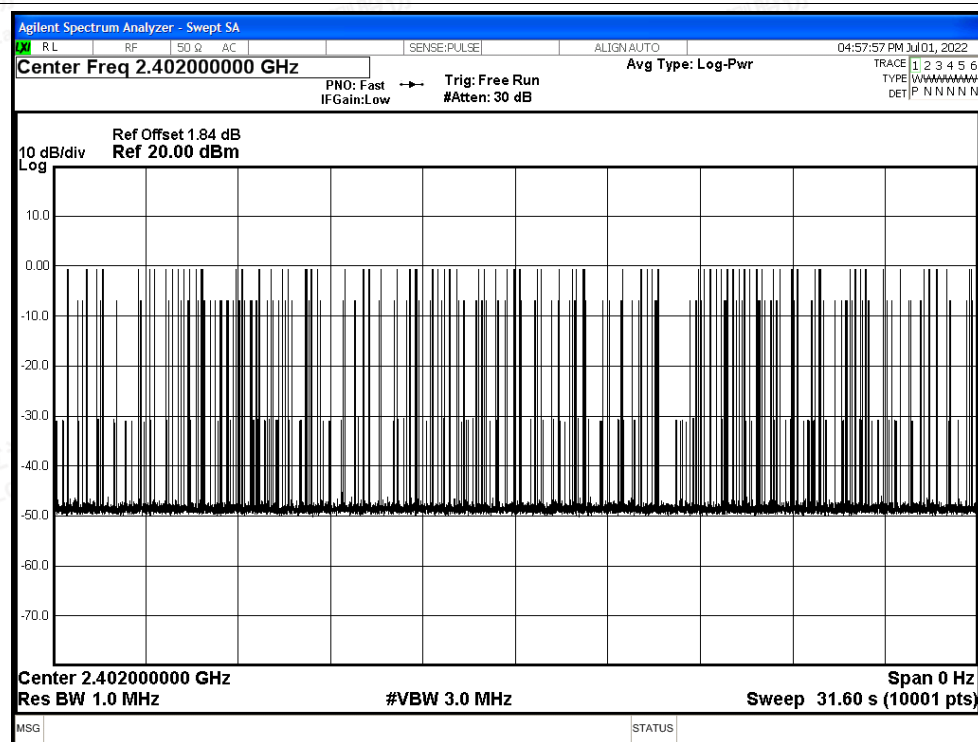




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 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

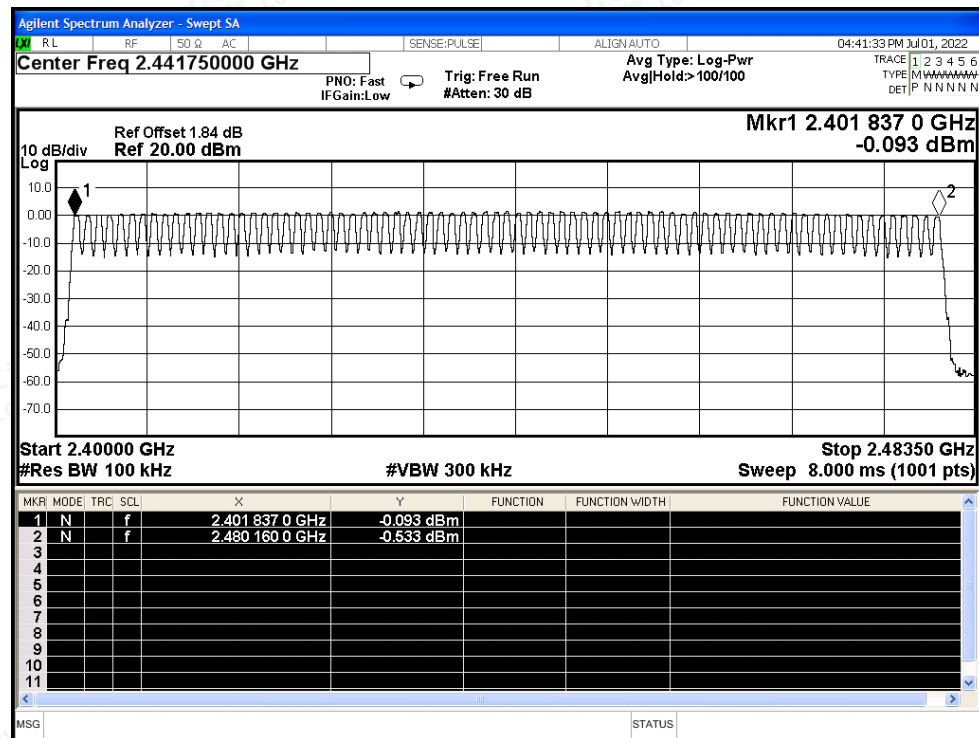


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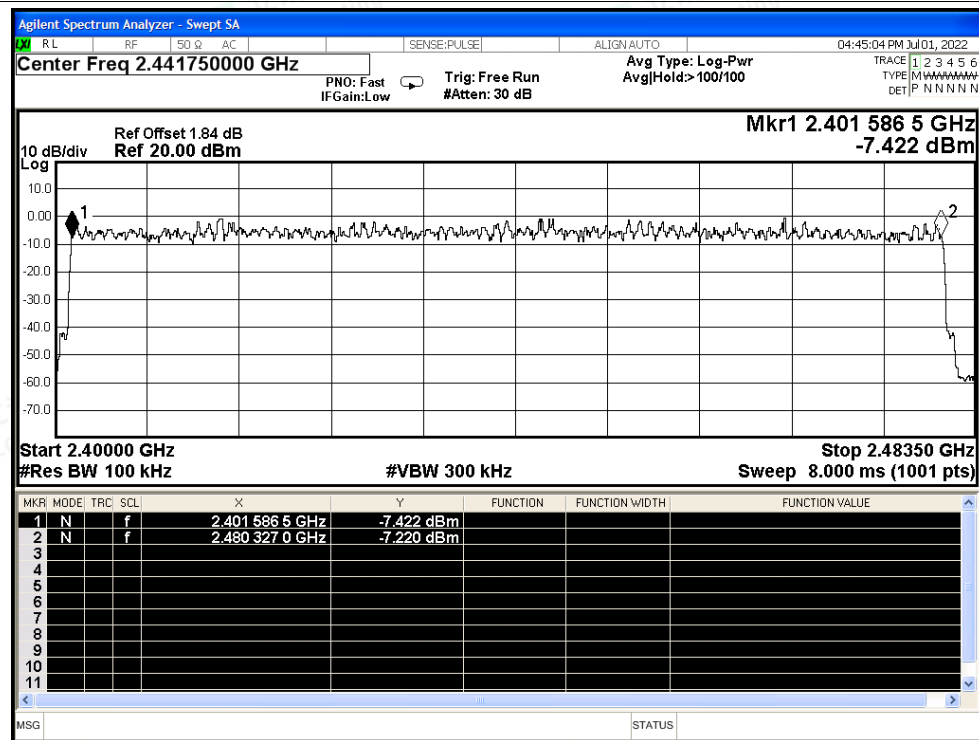


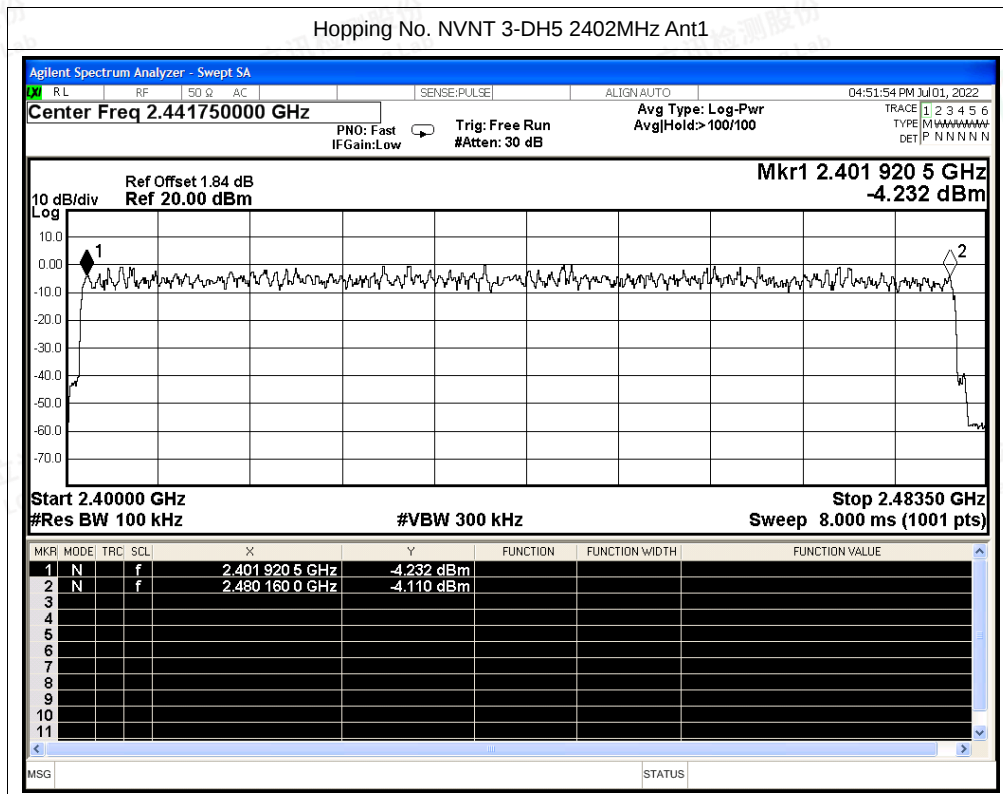
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

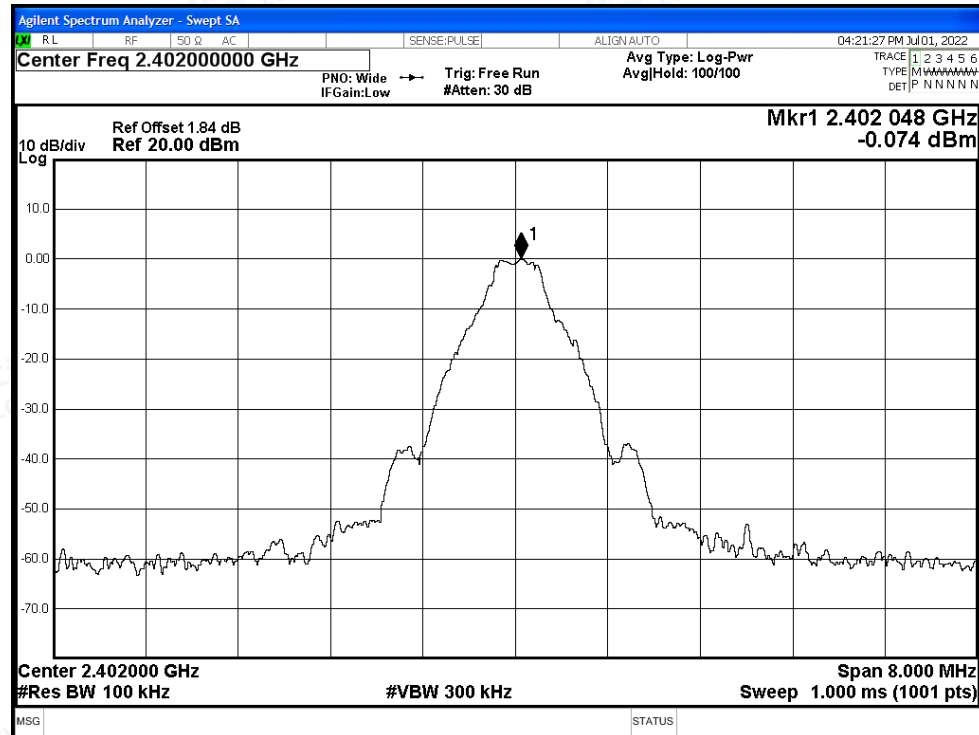
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.14	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.64	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.52	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.16	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.47	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.11	-20	Pass



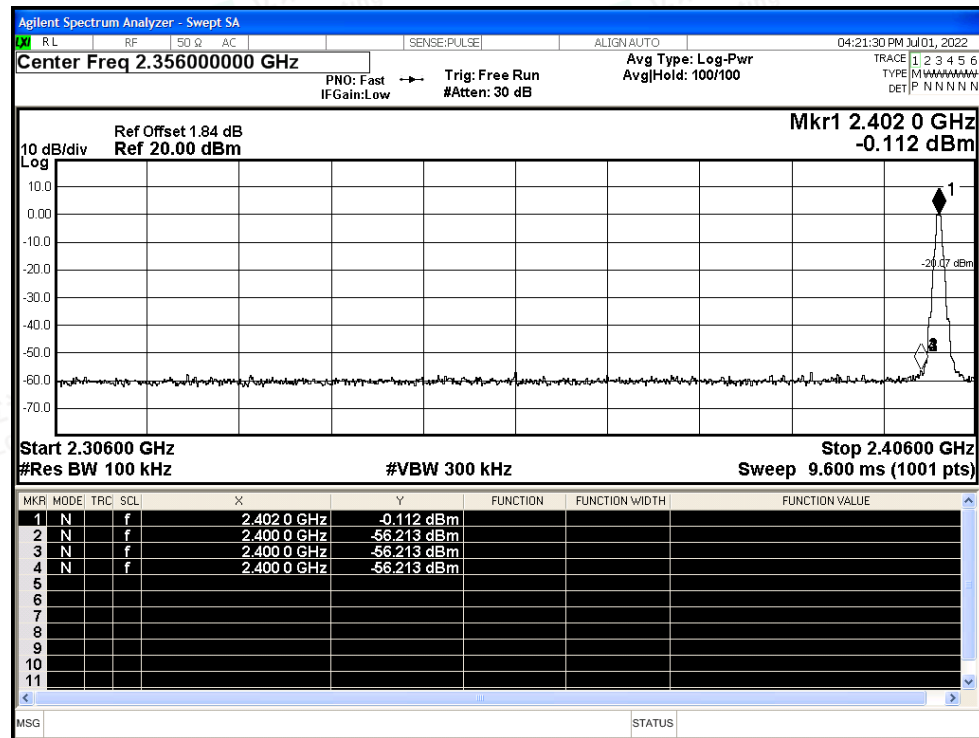


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

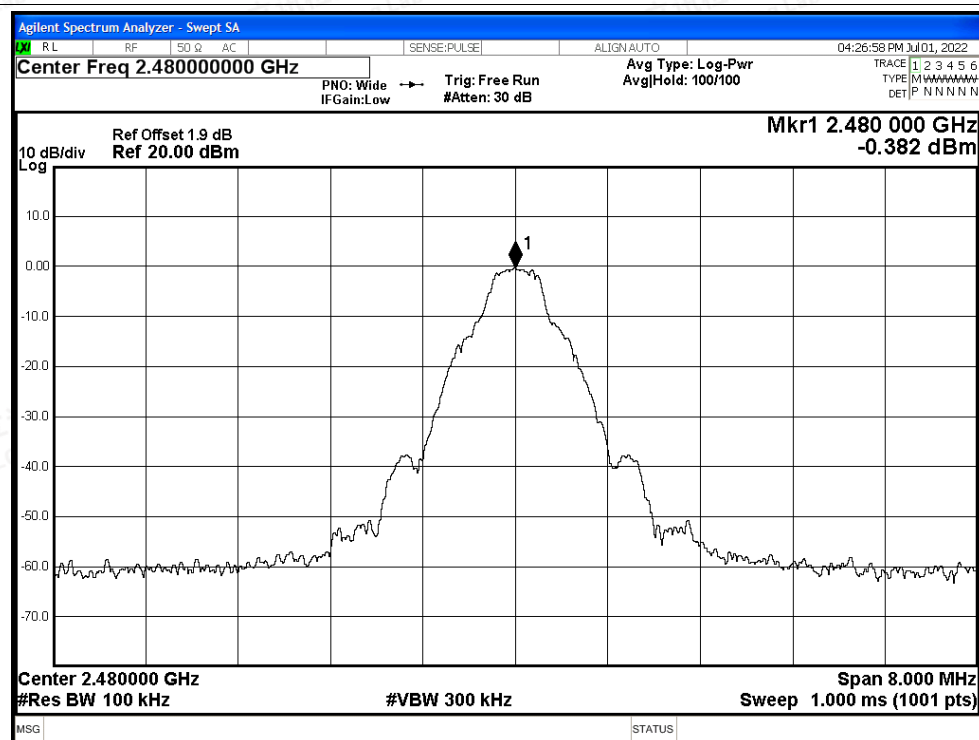


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

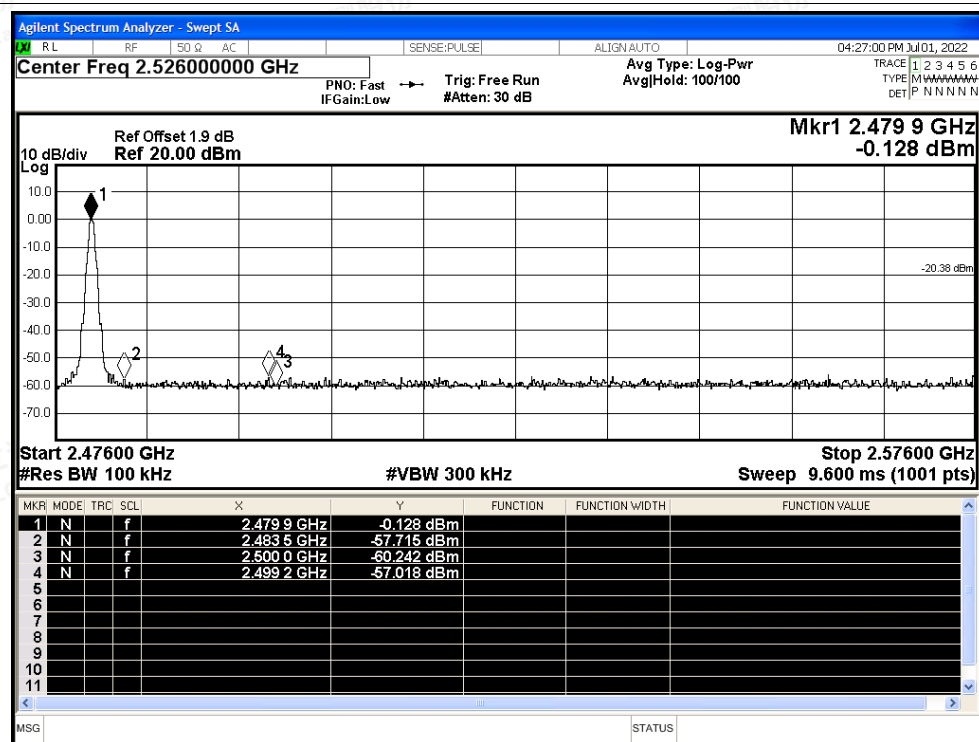




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

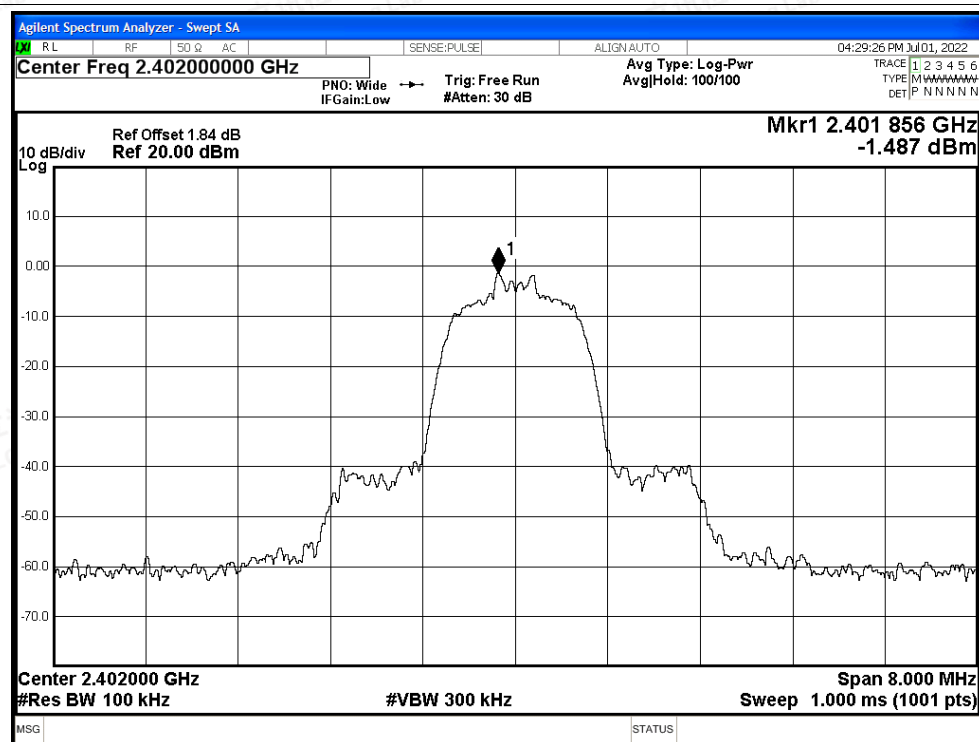


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

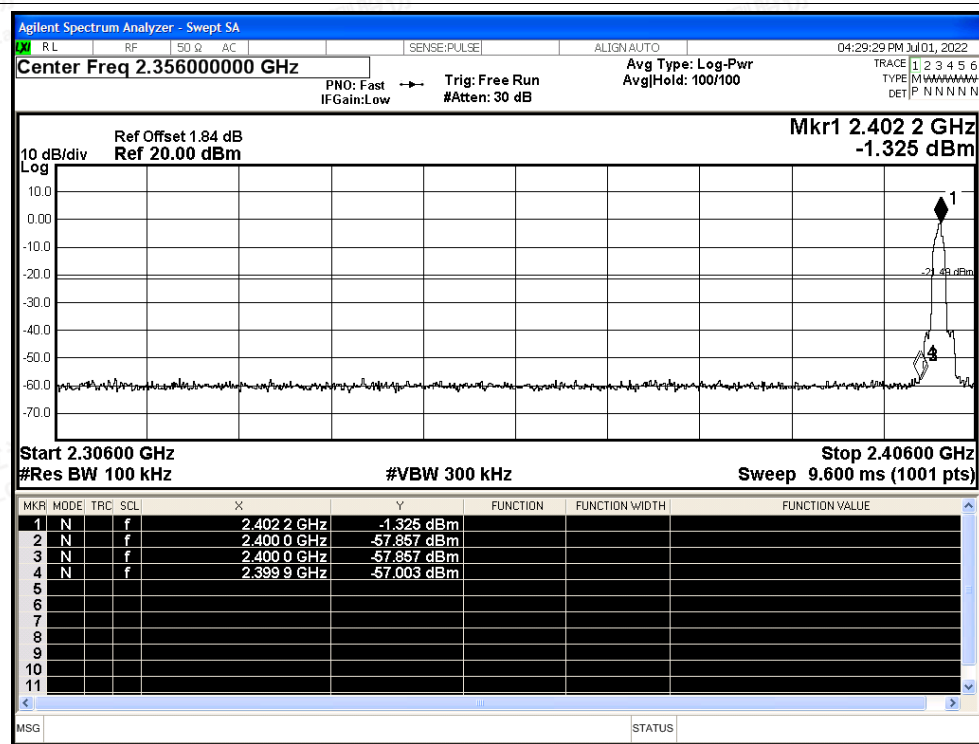




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

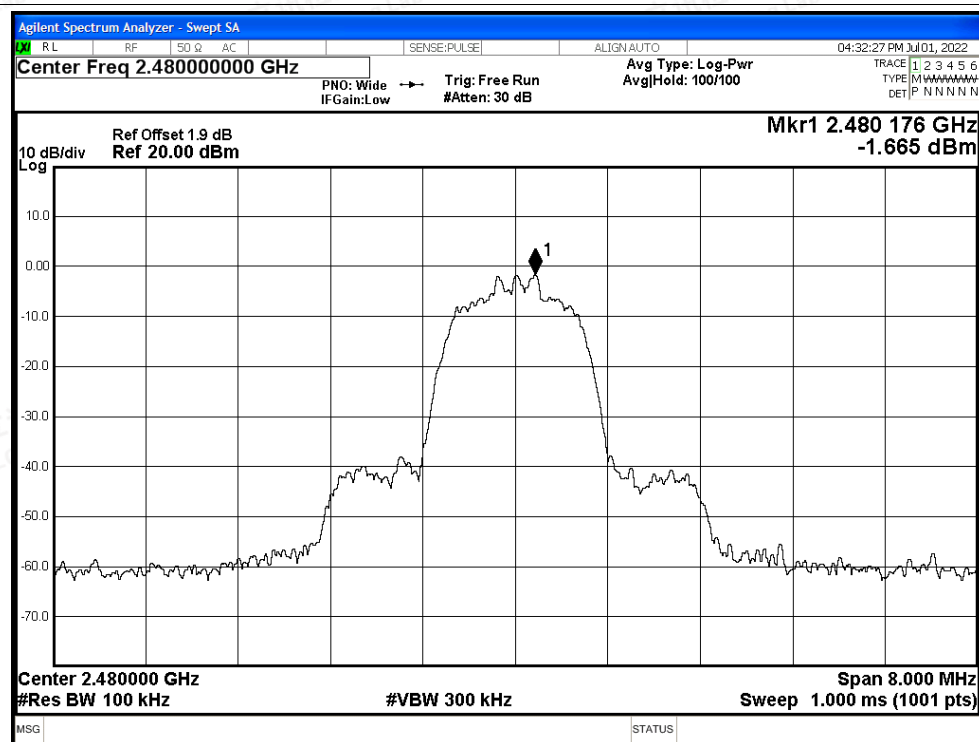


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

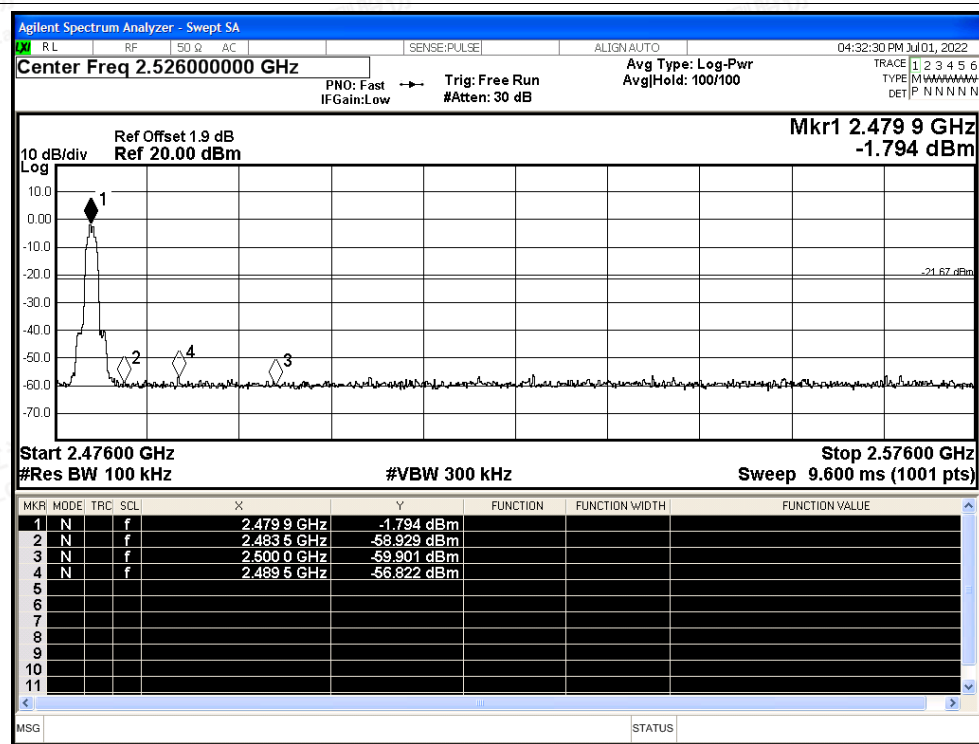




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

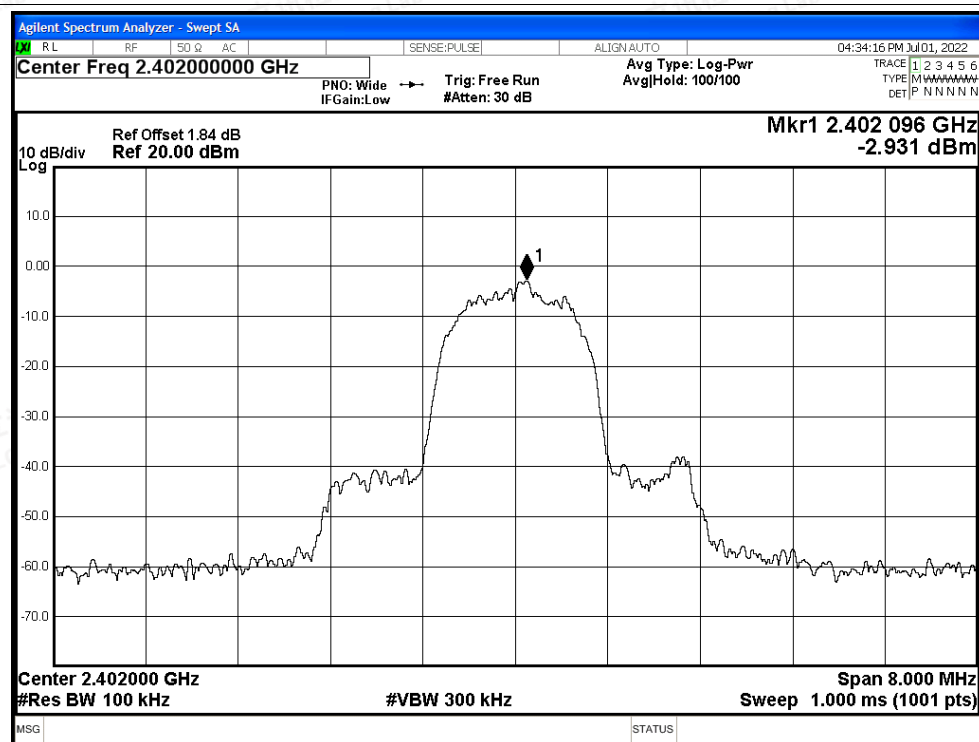


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

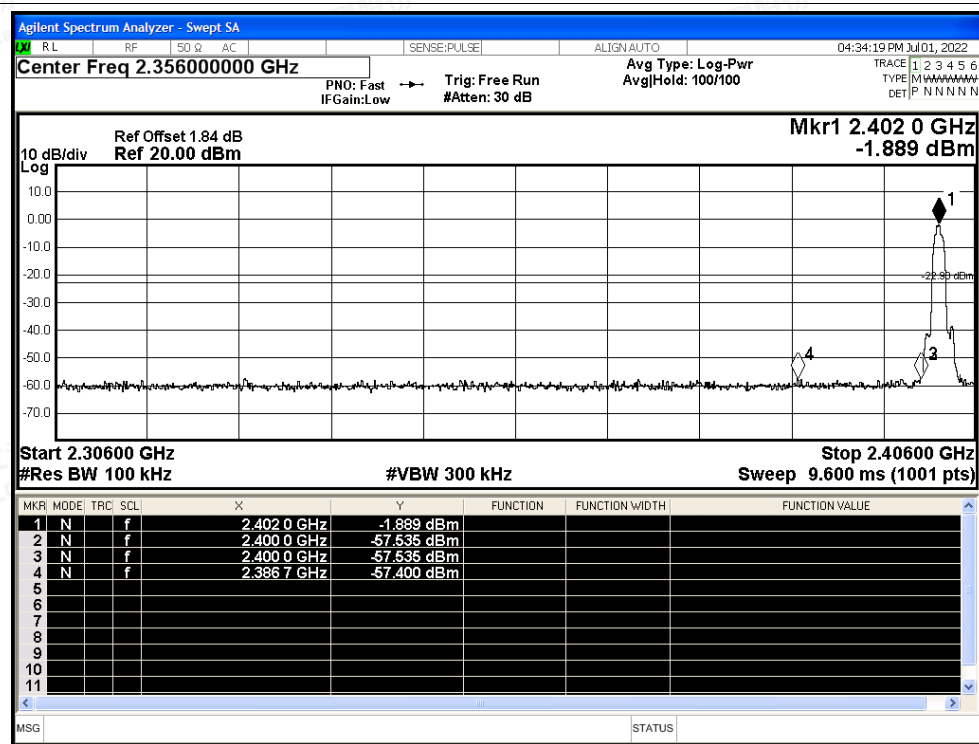




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

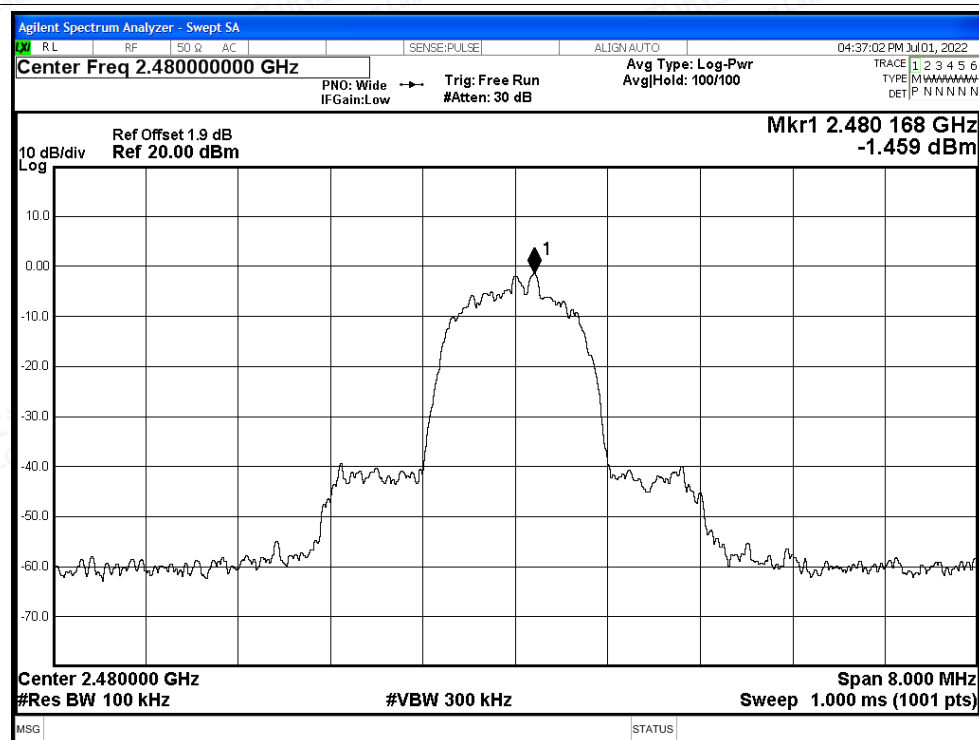


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

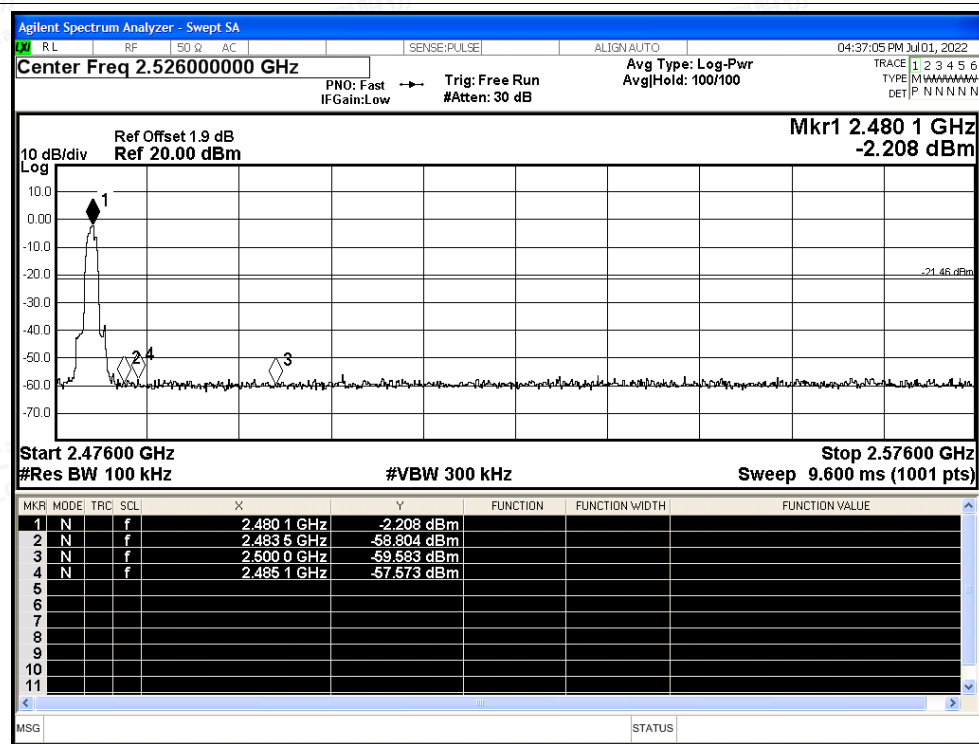




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission





(Hopping)

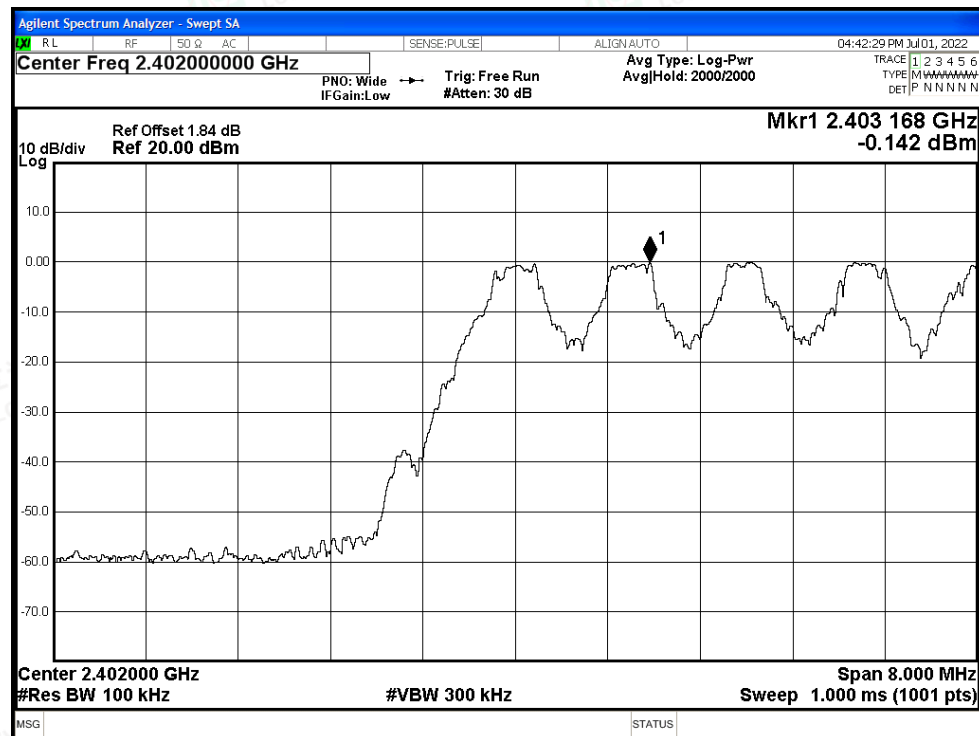
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.91	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.29	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.2	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.01	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.69	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.23	-20	Pass



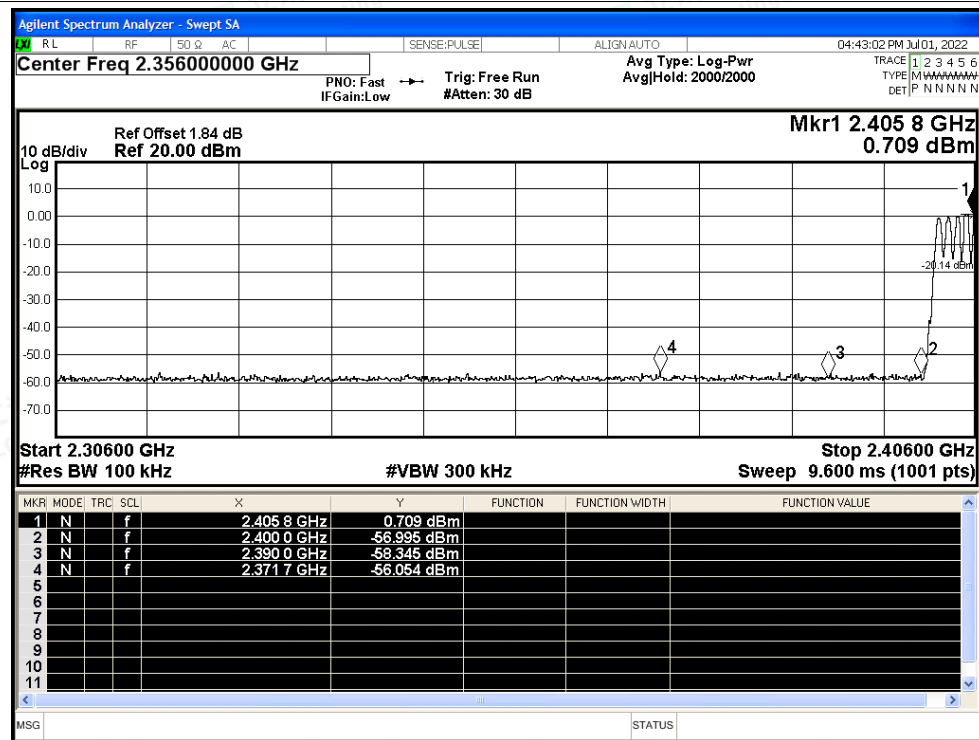


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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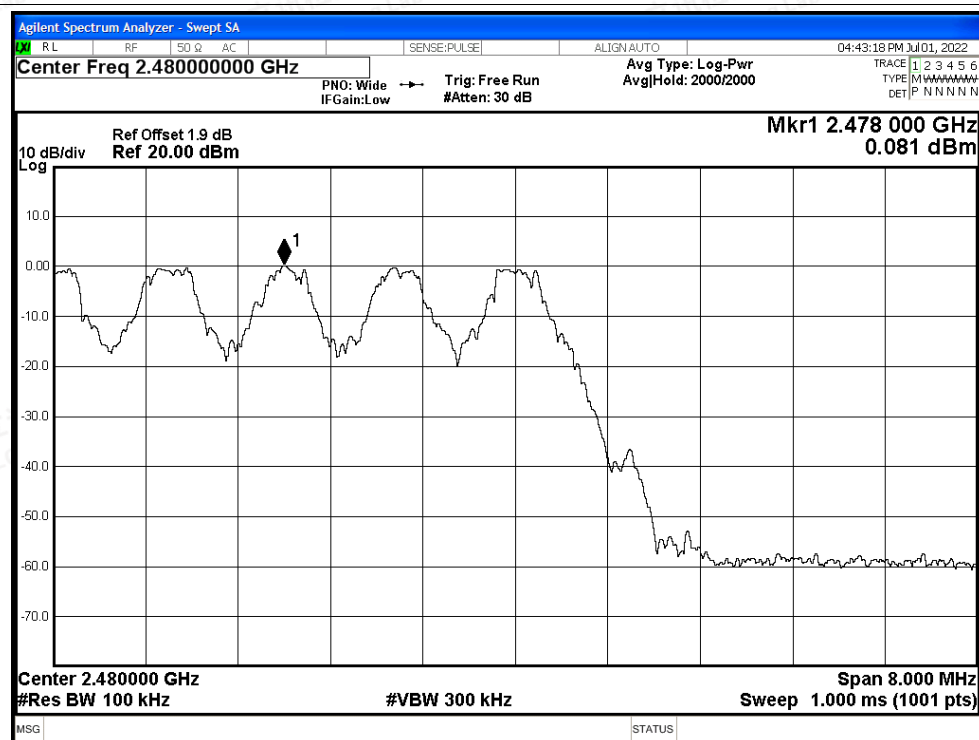
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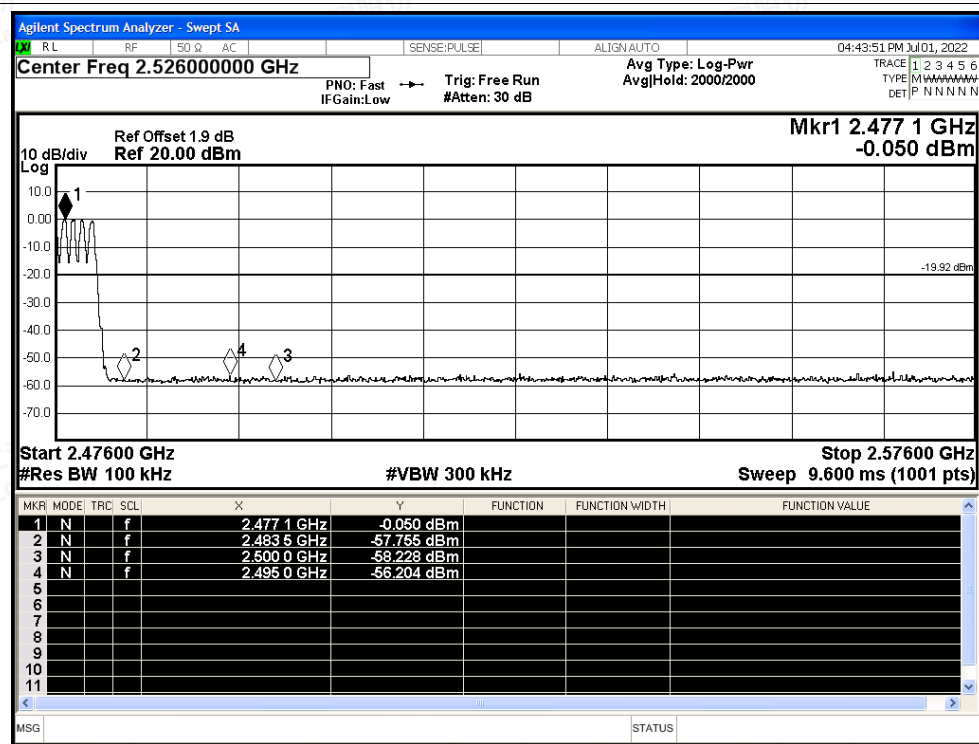
Scan code to check authenticity



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

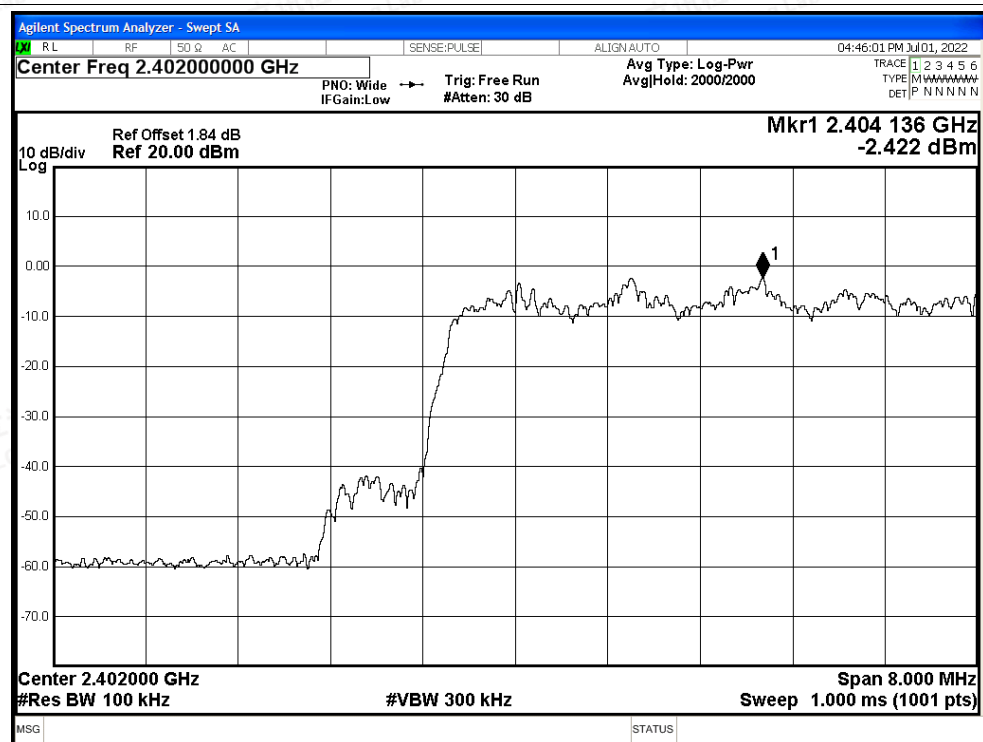


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

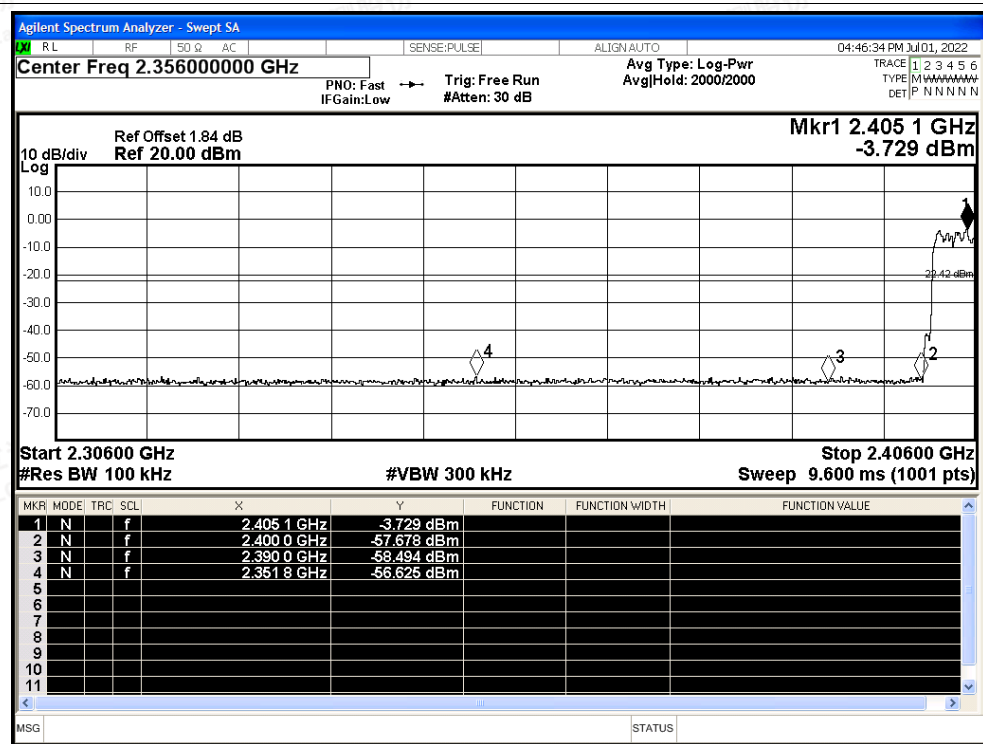




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

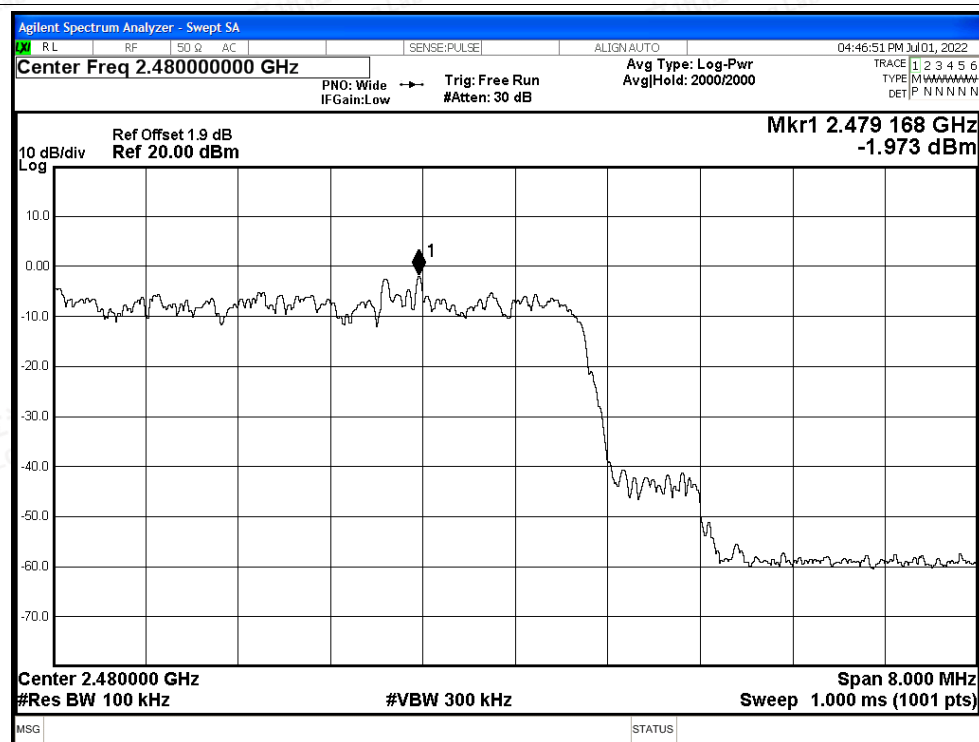


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

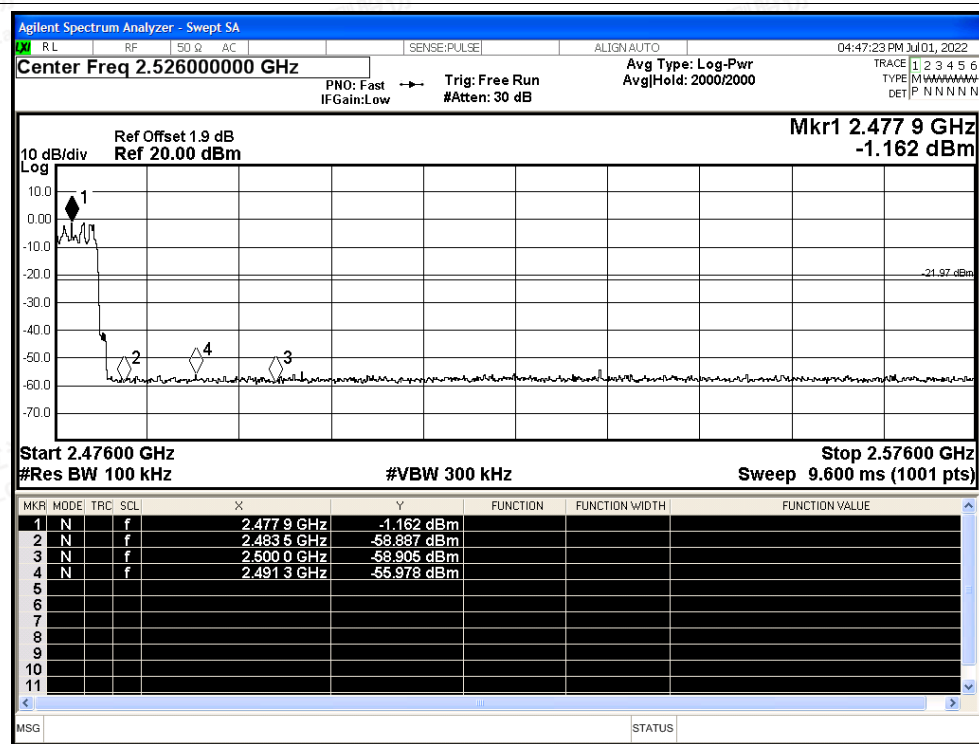




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

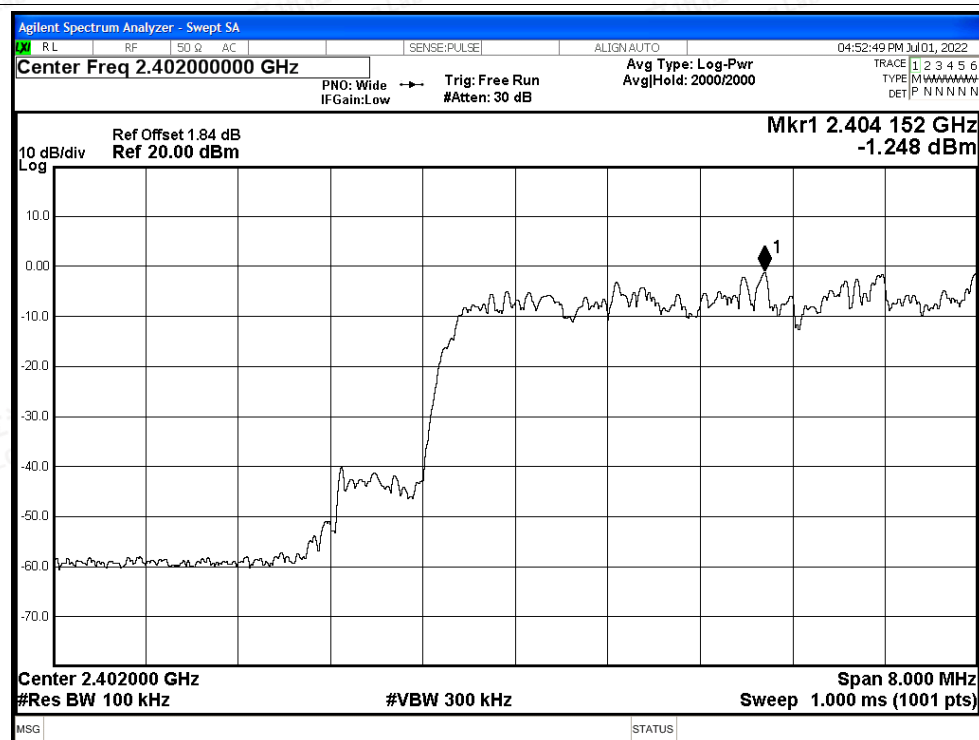


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

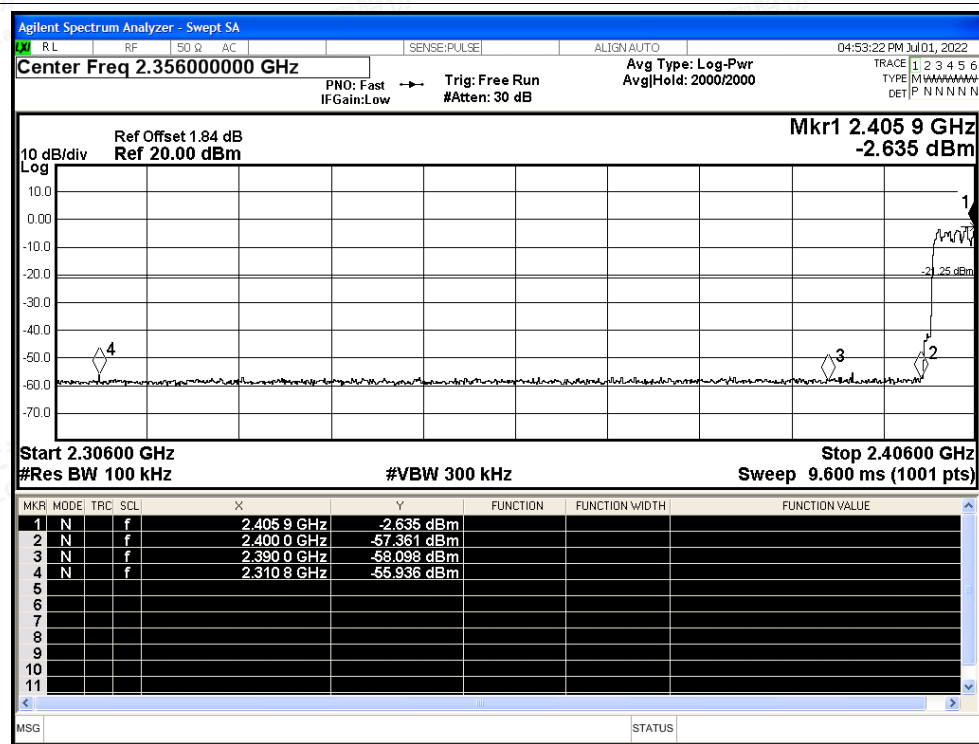




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

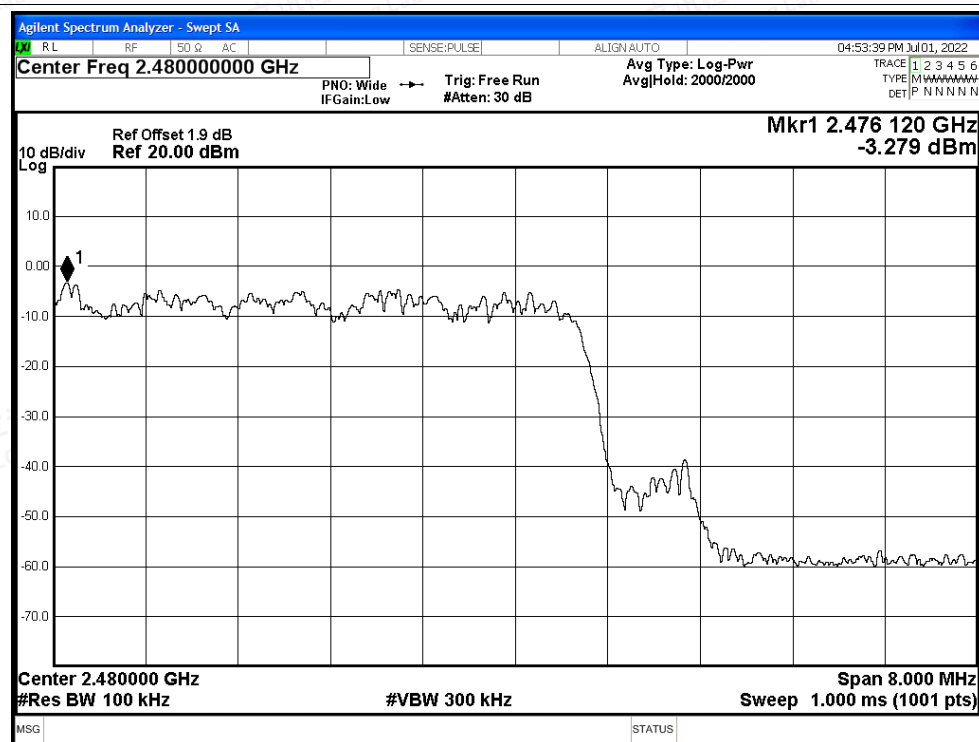


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

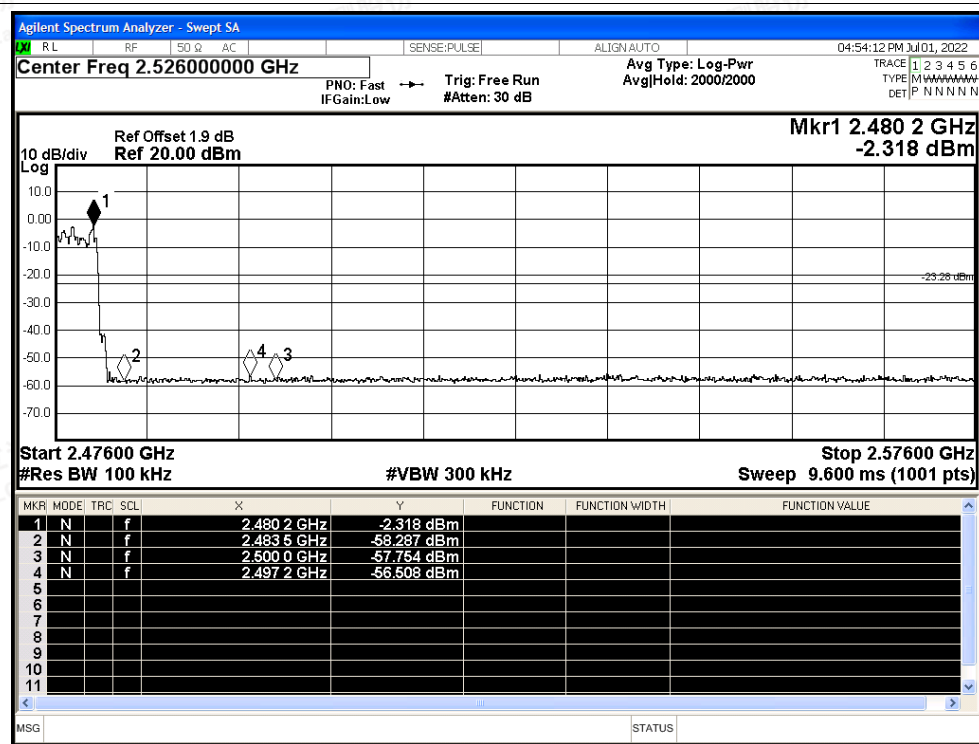




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.04	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.33	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.98	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.41	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.92	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.58	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.53	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.7	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.12	-20	Pass

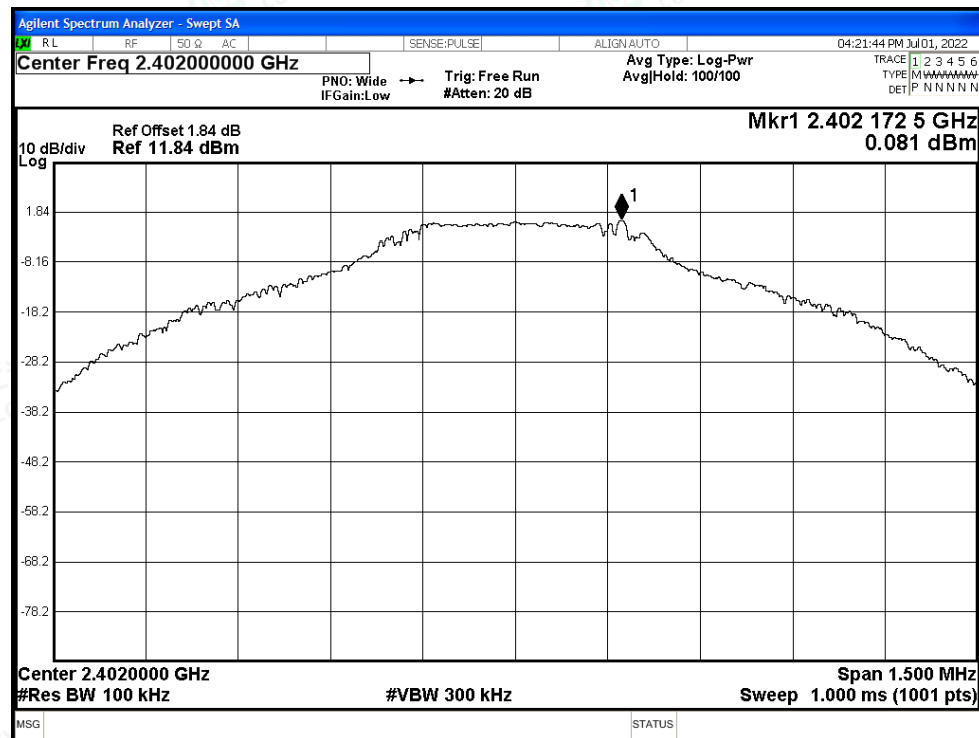


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Scan code to check authenticity

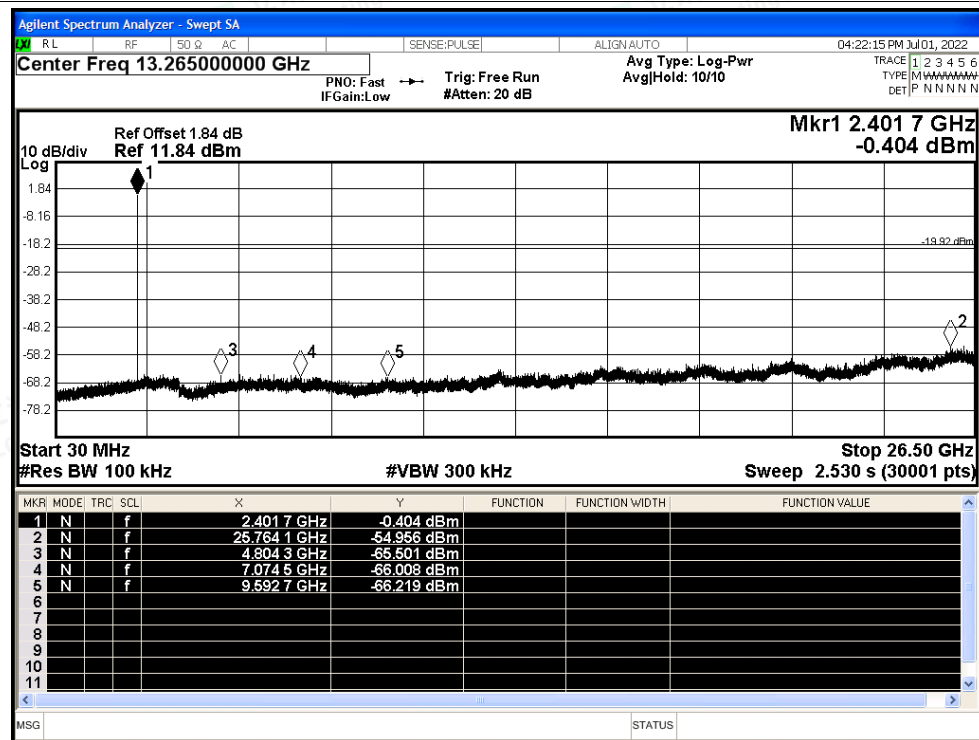


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

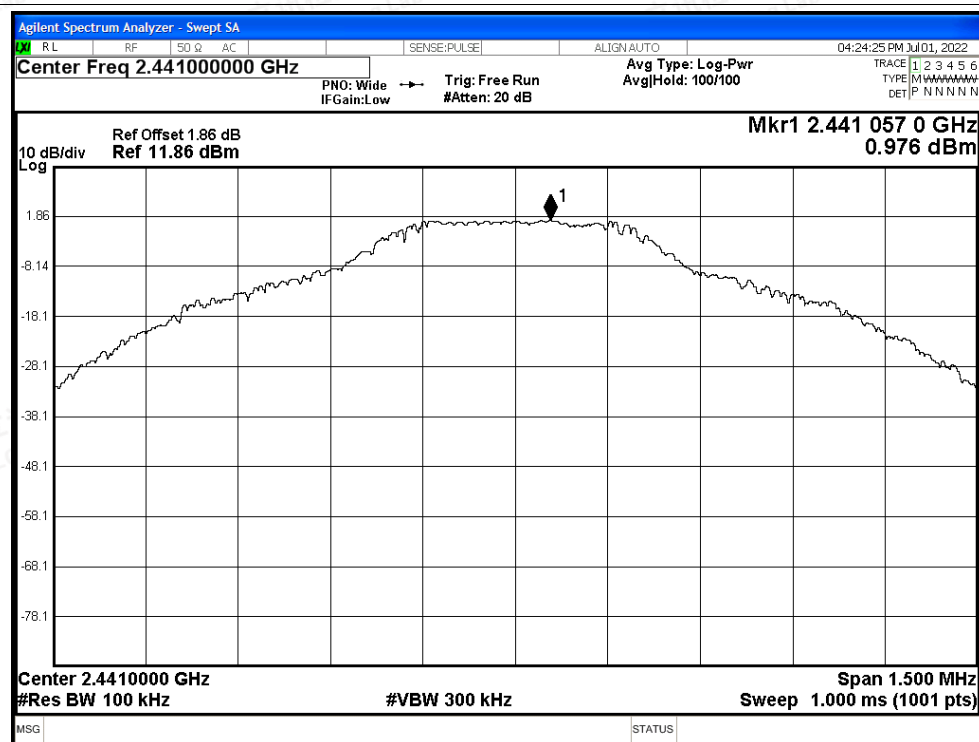


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

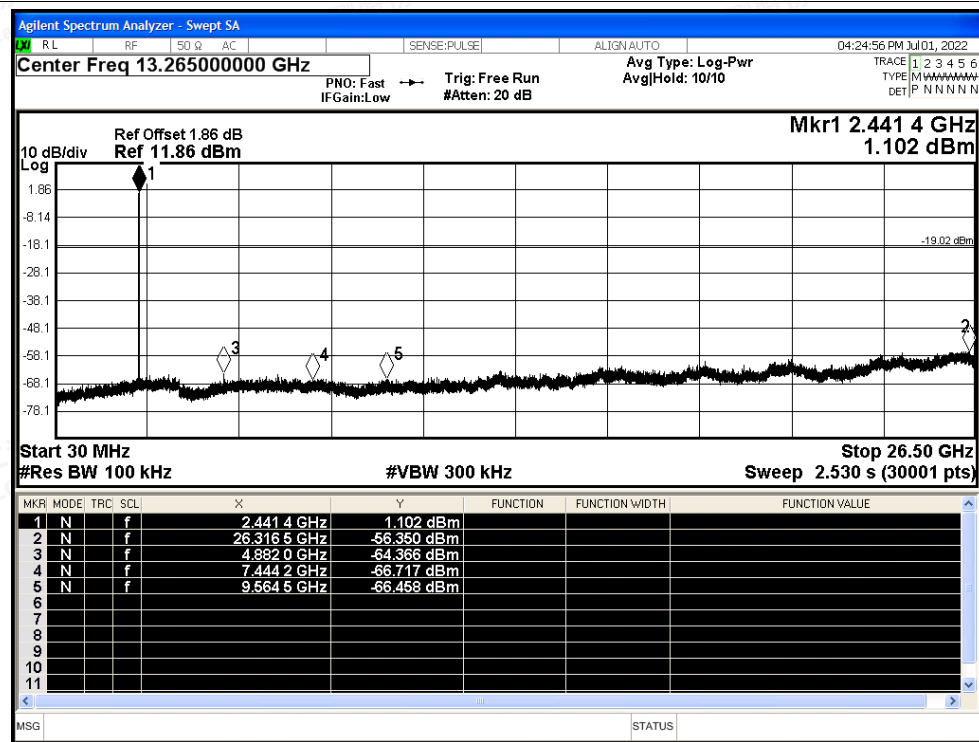




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

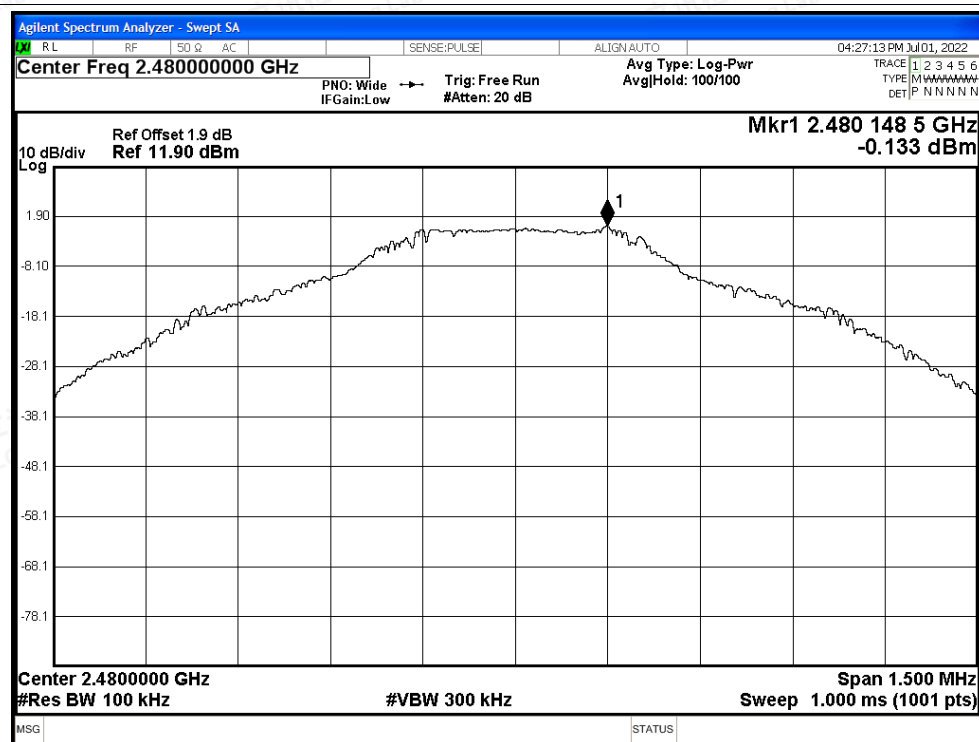


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.441 4 GHz	1.102 dBm			
2	N		f	26.316 5 GHz	-66.350 dBm			
3	N		f	4.882 0 GHz	-64.366 dBm			
4	N		f	7.444 2 GHz	-66.717 dBm			
5	N		f	9.564 5 GHz	-66.458 dBm			
6								
7								
8								
9								
10								
11								

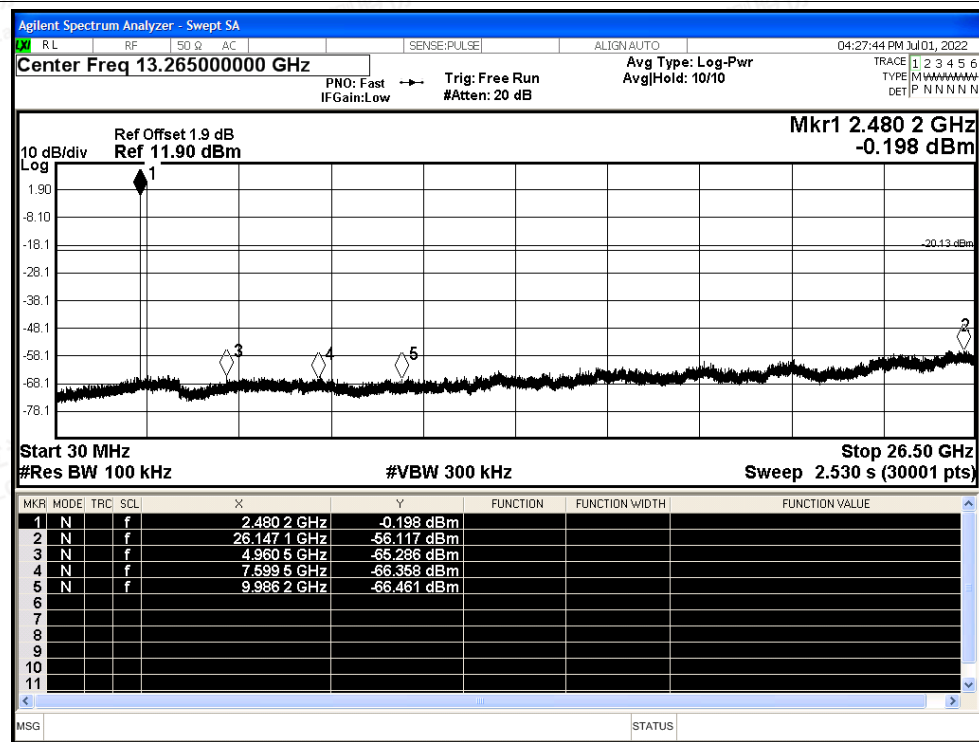




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

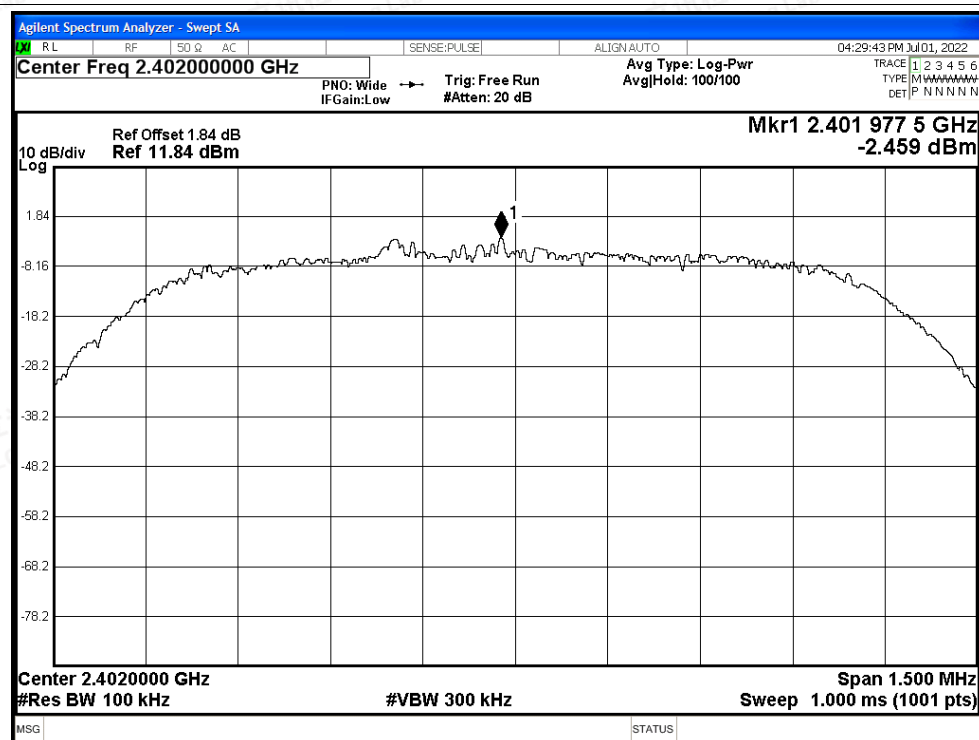


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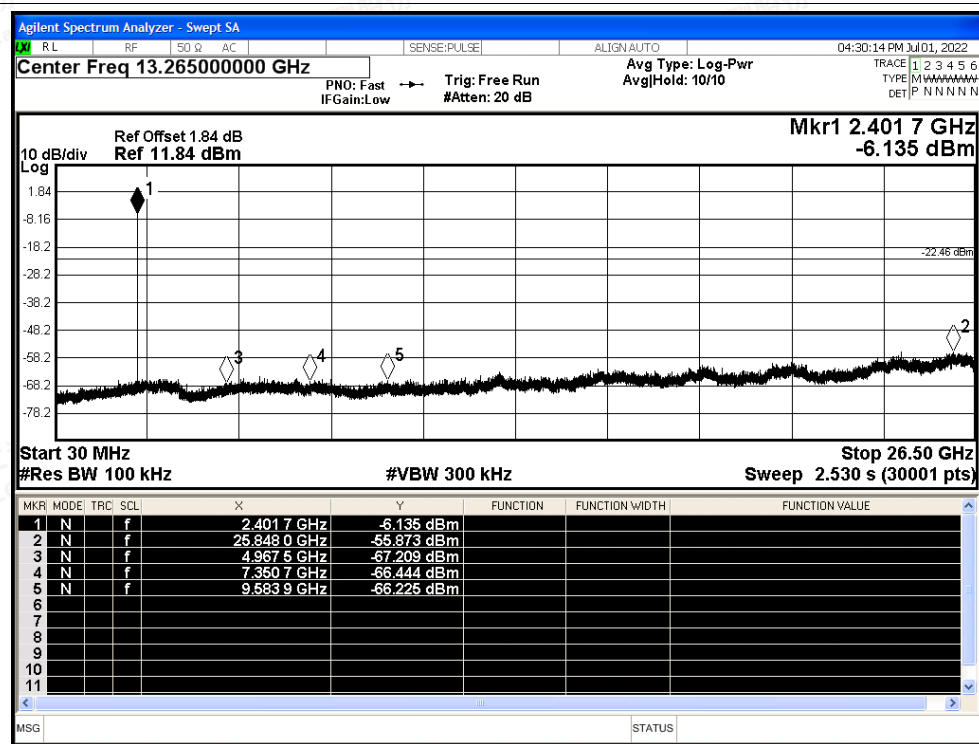




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

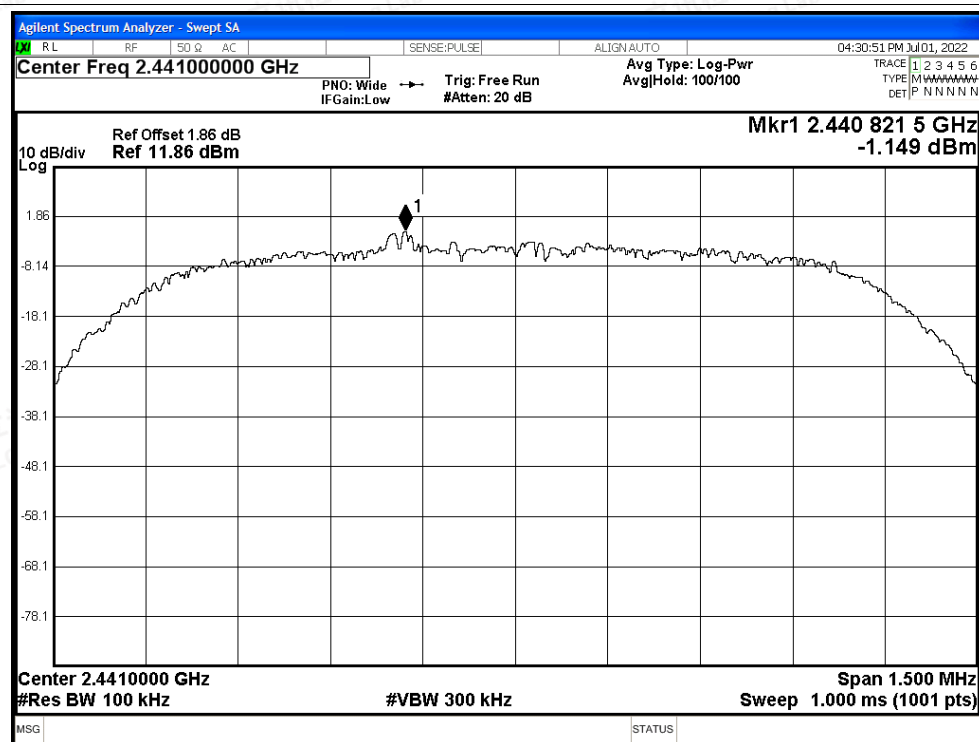


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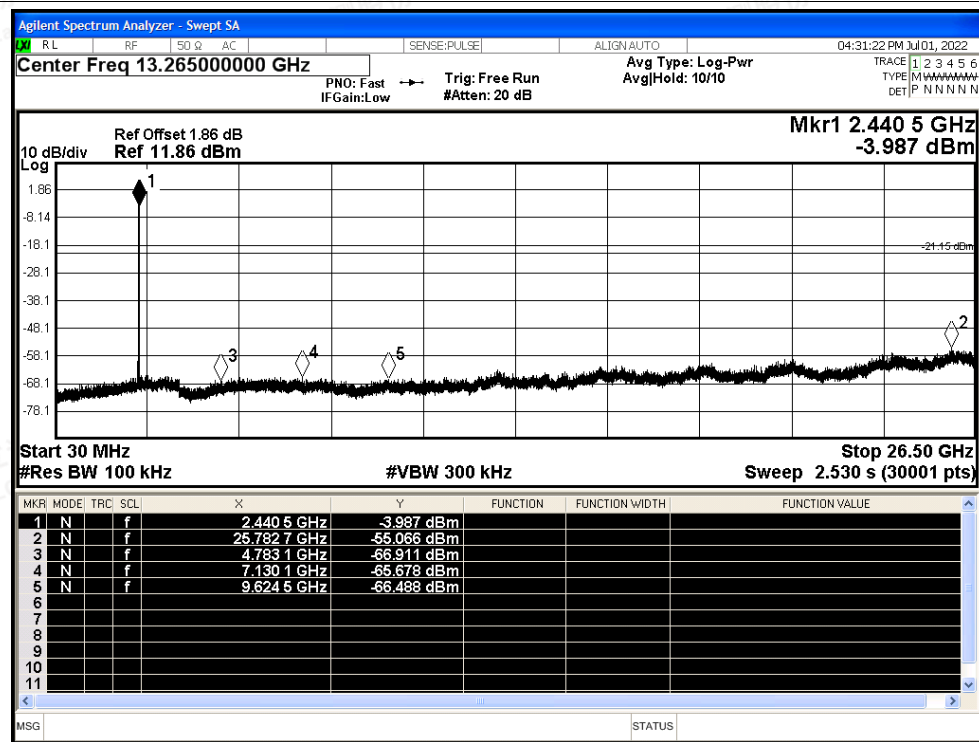




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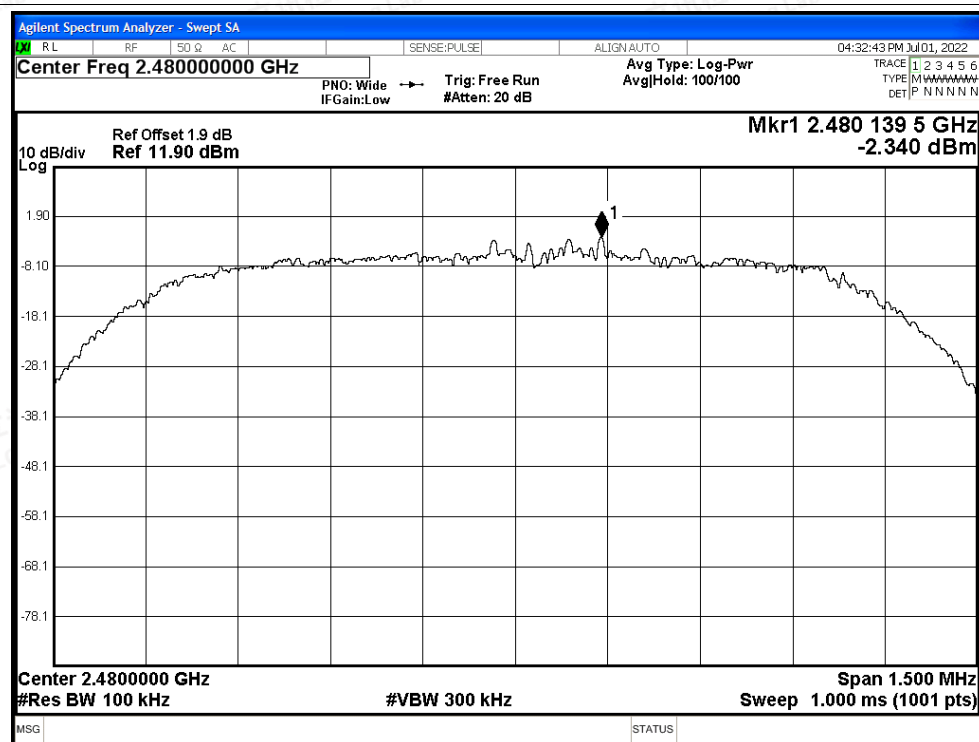


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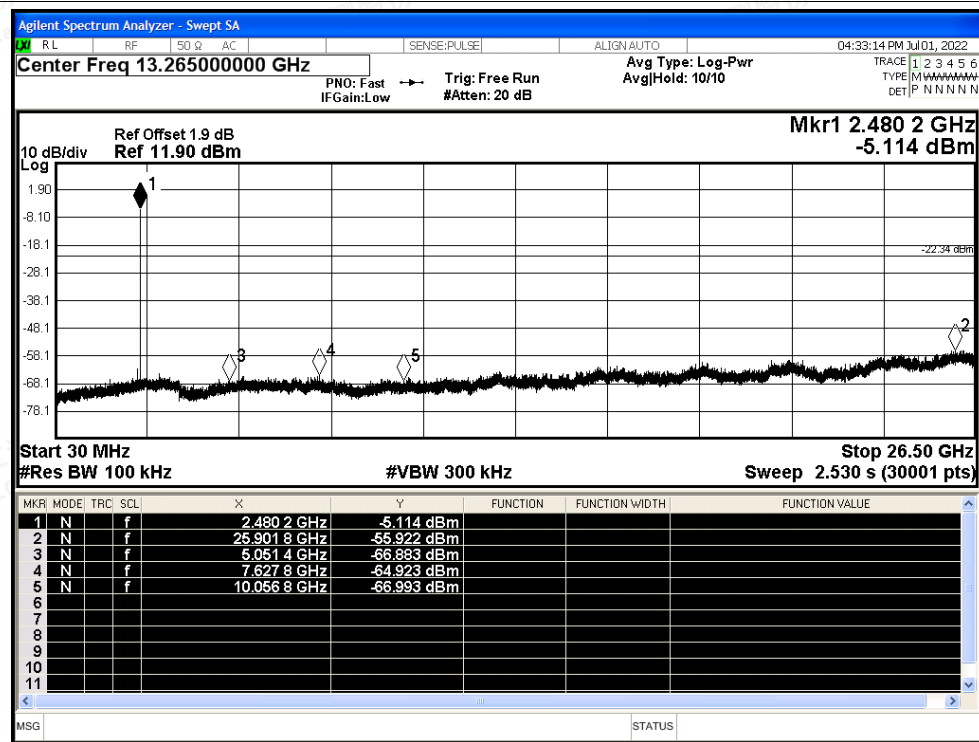




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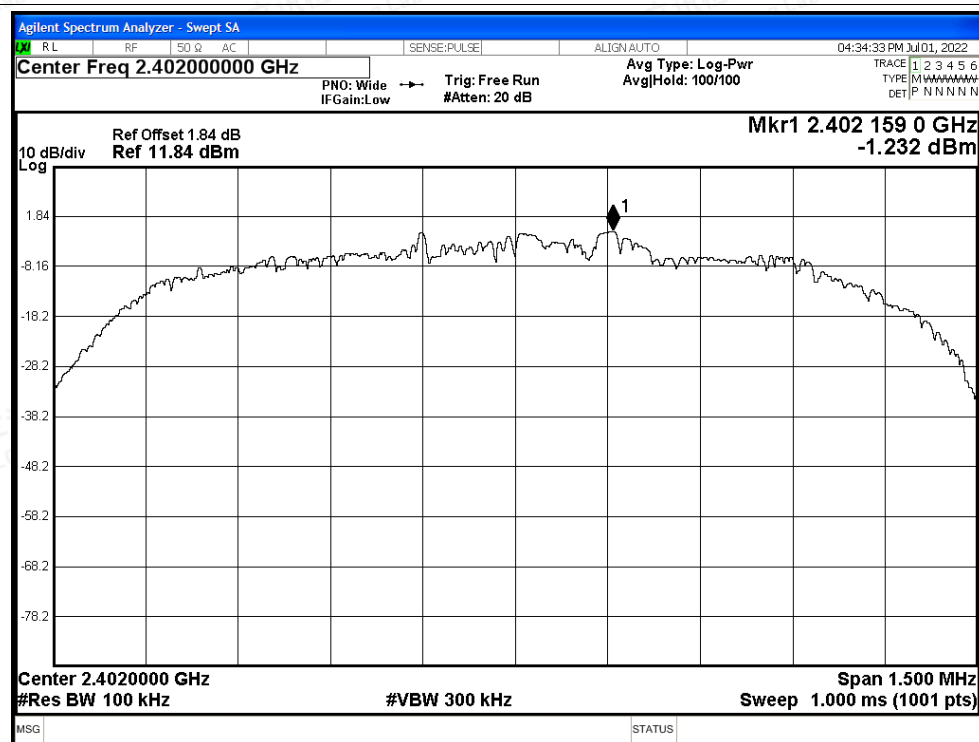


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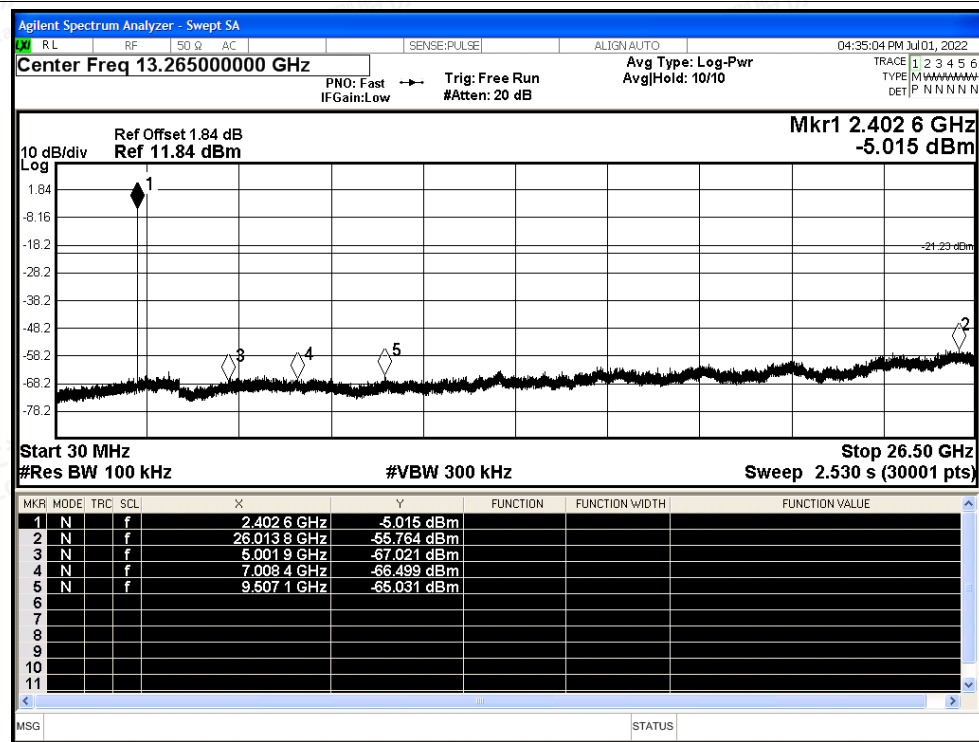




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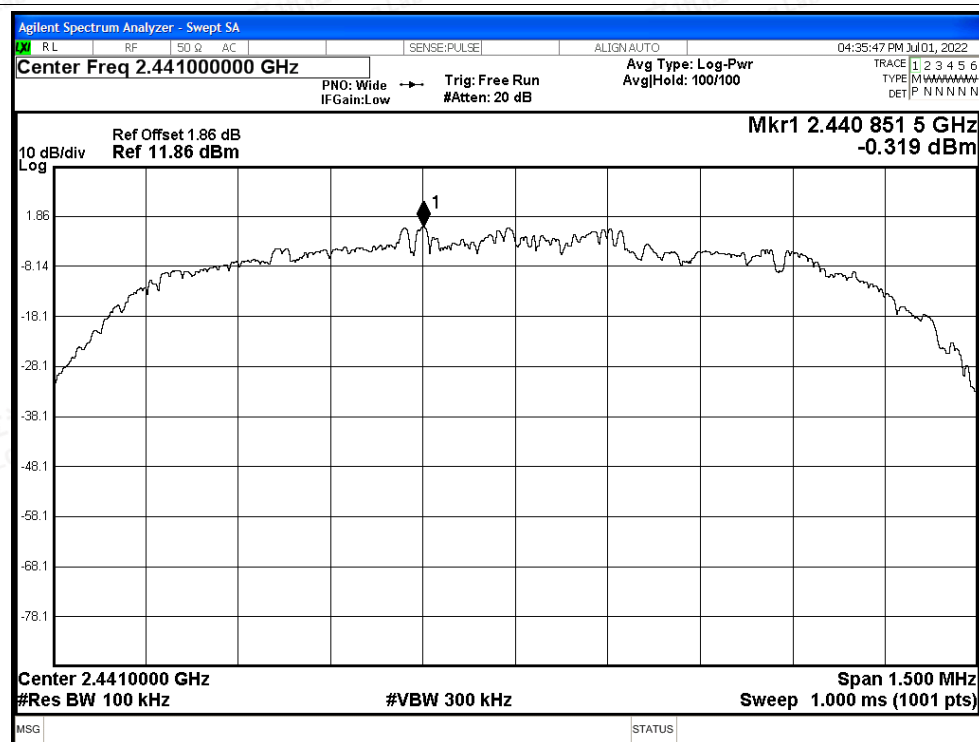


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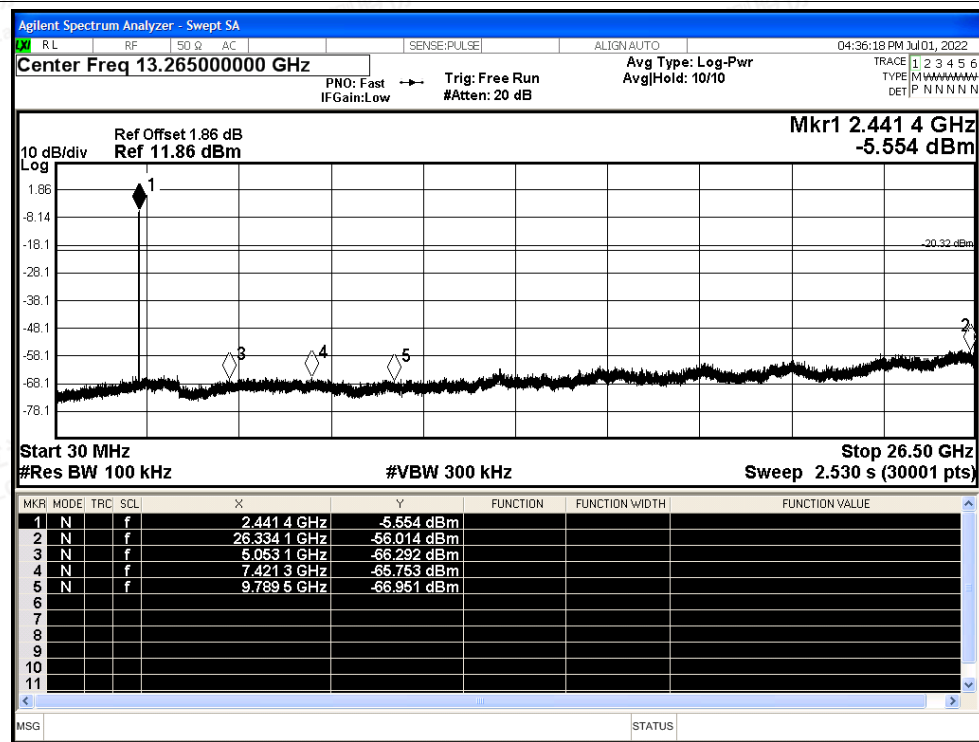




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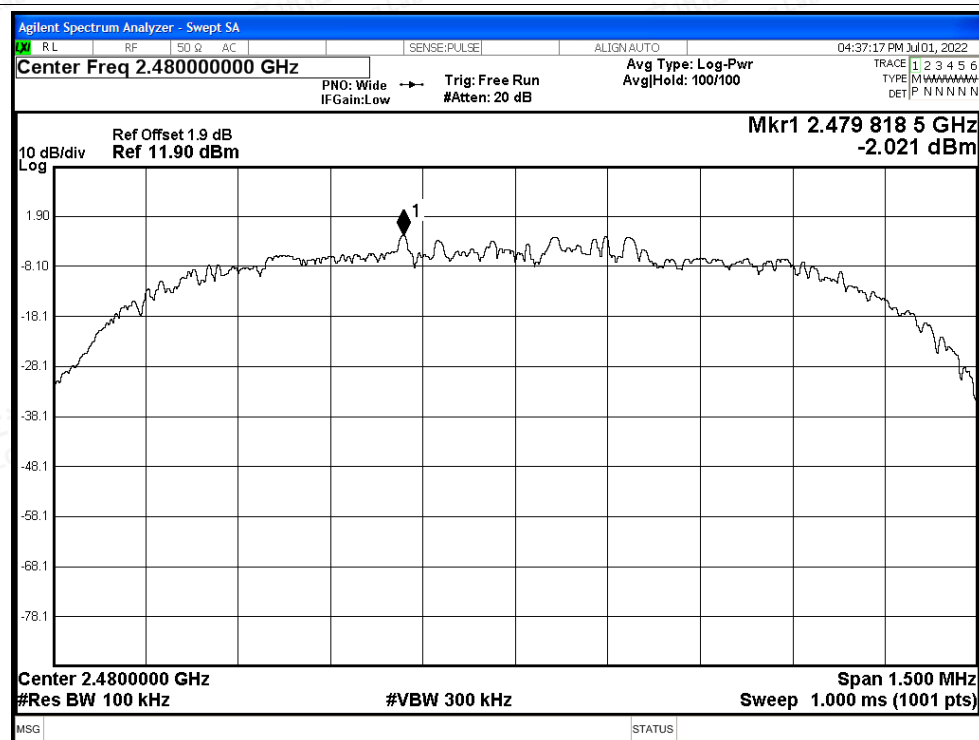


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

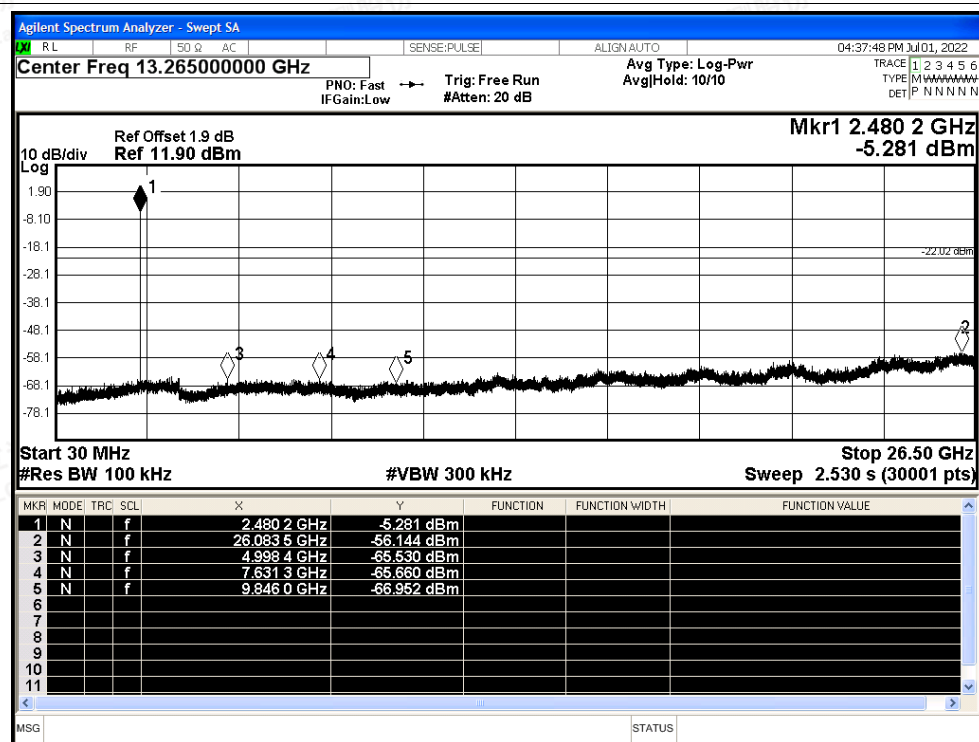




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

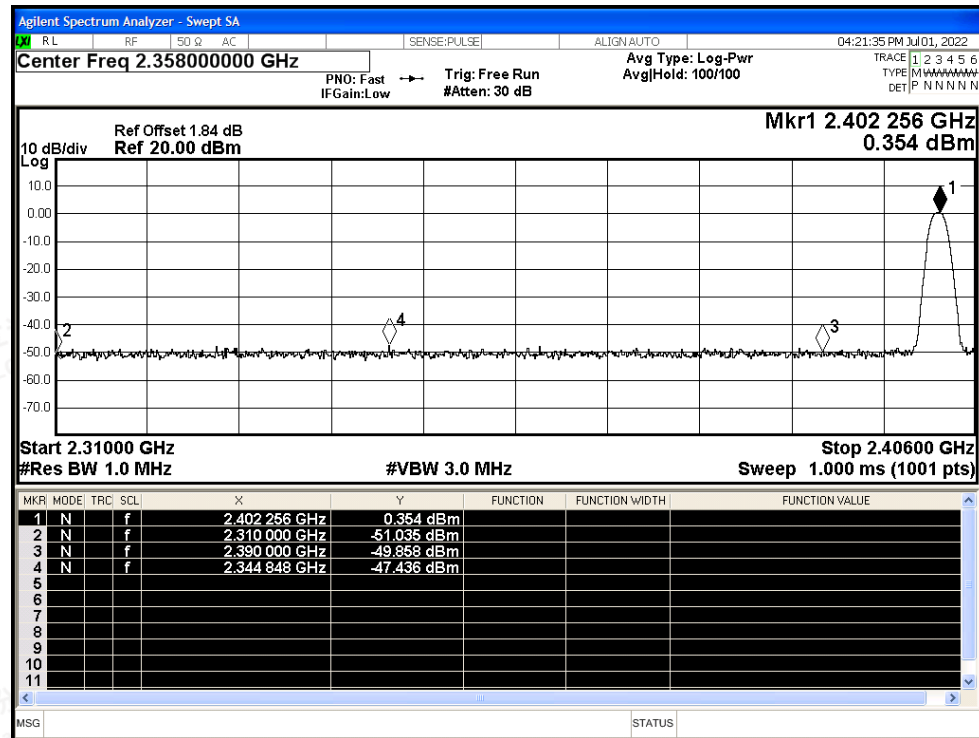
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.04	2	46.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.76	2	36.5	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2344.848	-47.44	2	49.82	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.776	-60.19	2	37.07	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.09	2	48.17	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.4	2	36.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.73	2	47.53	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.8	2	37.46	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.424	-47.35	2	49.91	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.256	-59.68	2	37.58	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.06	2	48.2	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.98	2	37.28	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.19	2	47.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.68	2	36.58	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.792	-47.72	2	49.54	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.24	-60.18	2	37.08	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.13	2	47.13	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.23	2	37.03	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.95	2	48.31	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.74	2	37.52	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.896	-47.19	2	50.07	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-59.68	2	37.58	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.81	2	47.45	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.93	2	37.33	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.42	2	45.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.67	2	36.59	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2353.68	-47.38	2	49.88	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.392	-60.03	2	37.23	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.62	2	46.64	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.15	2	37.11	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.12	2	47.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.59	2	37.67	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2493.328	-46.66	2	50.6	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.584	-59.53	2	37.73	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.55	2	46.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.96	2	37.3	Average	54	Pass



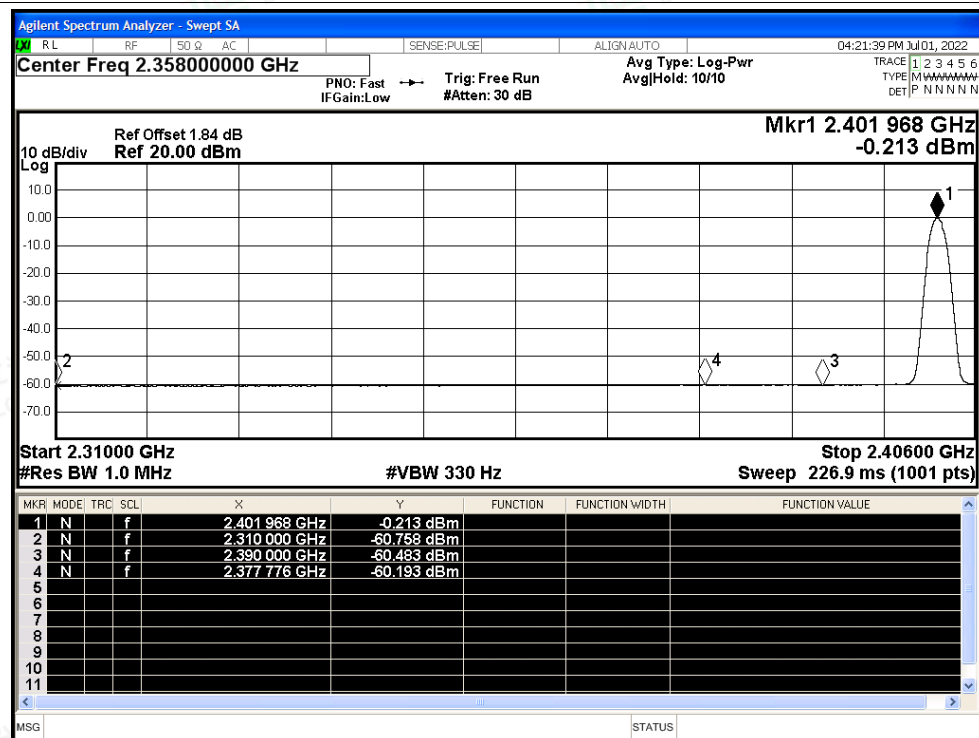


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

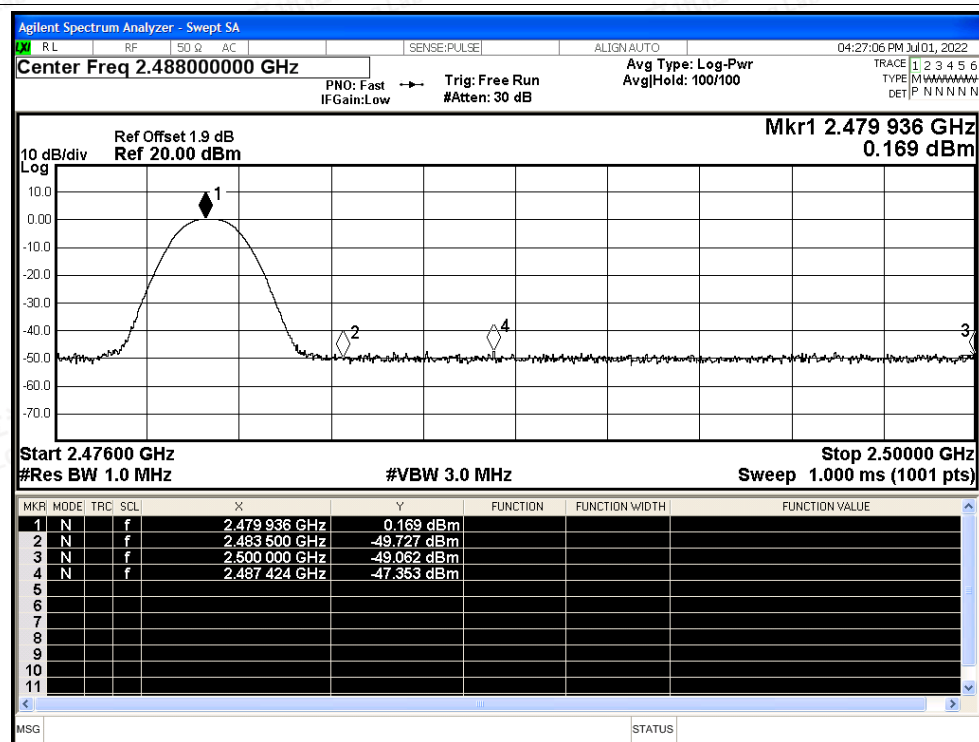


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

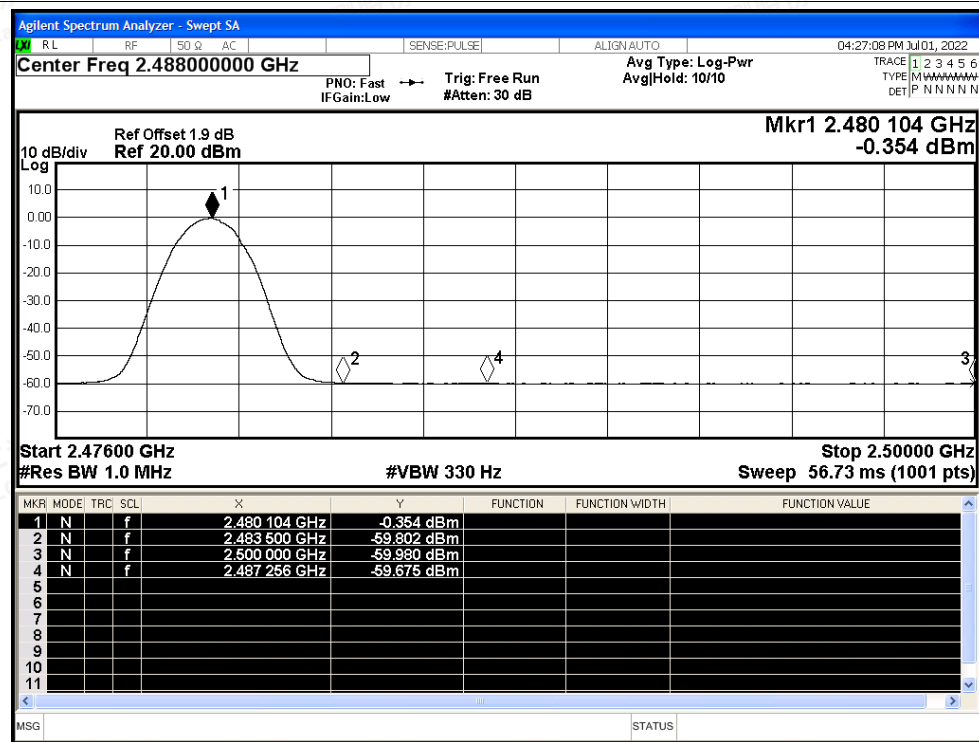




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

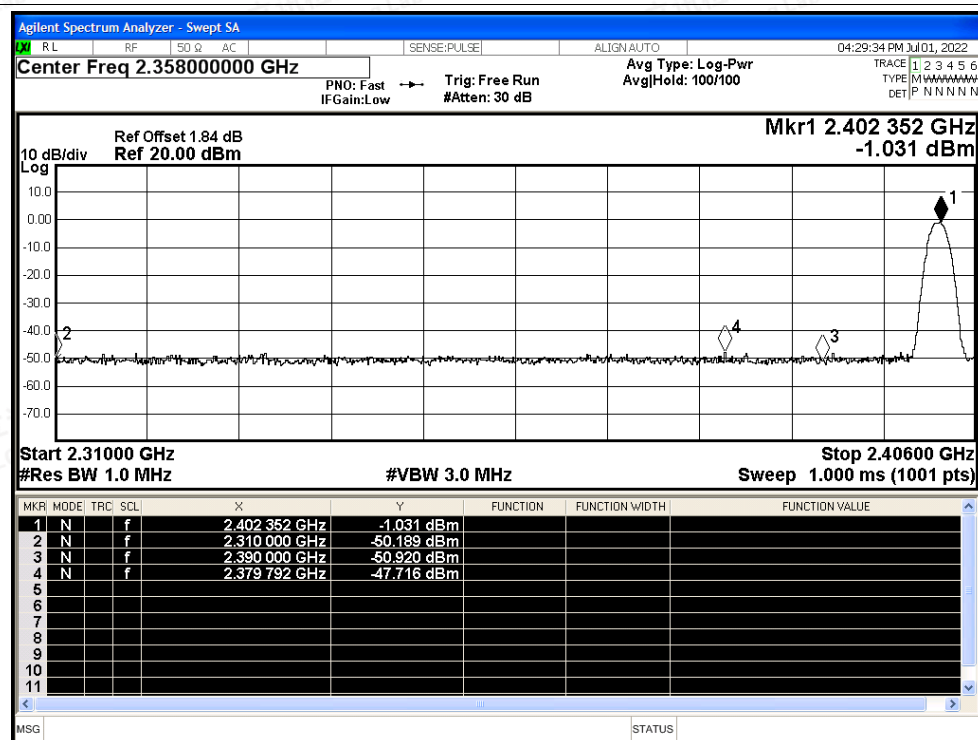


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

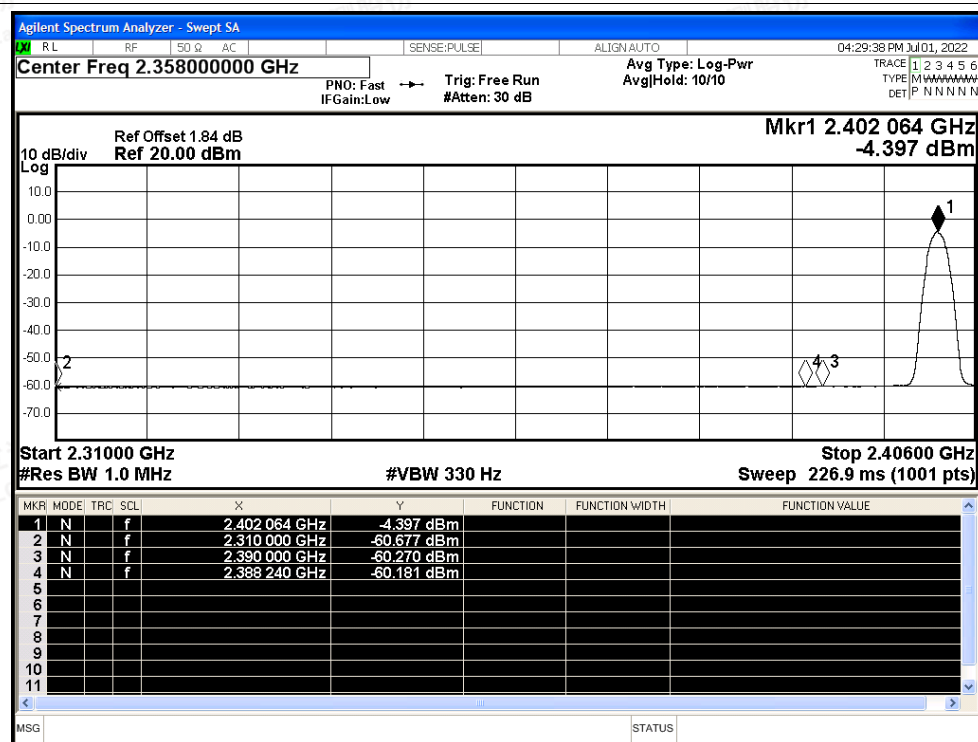




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

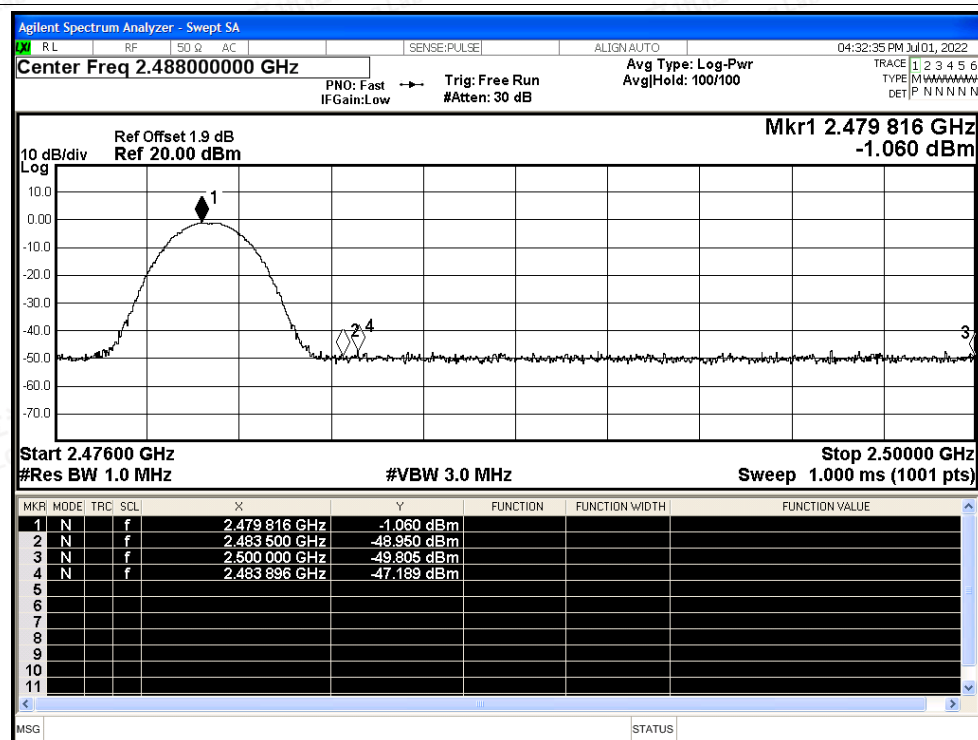


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

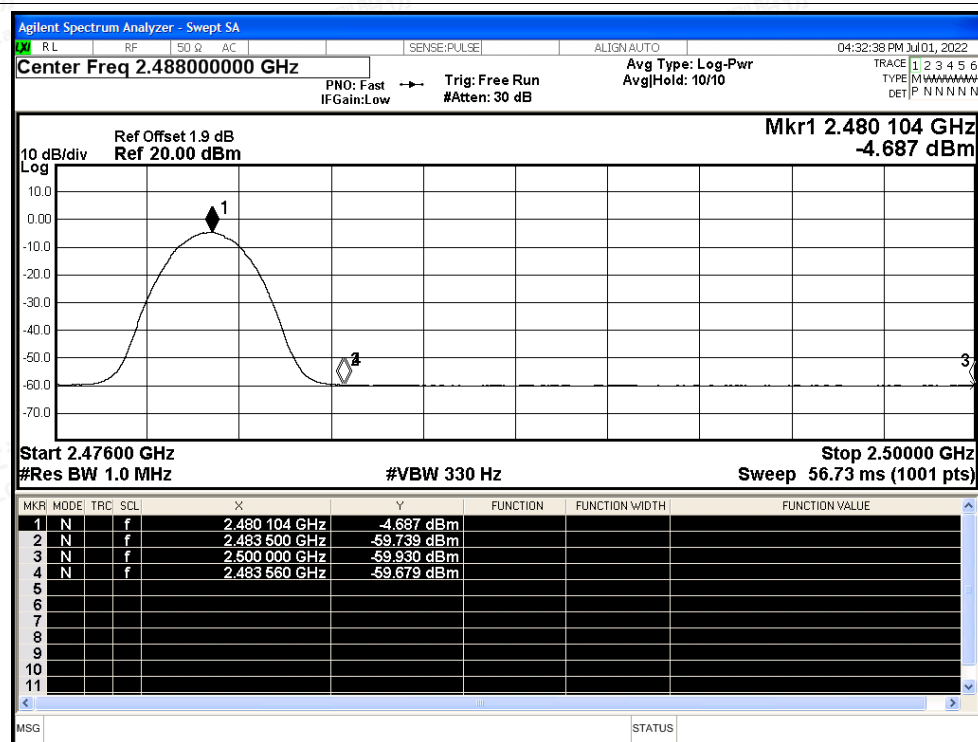




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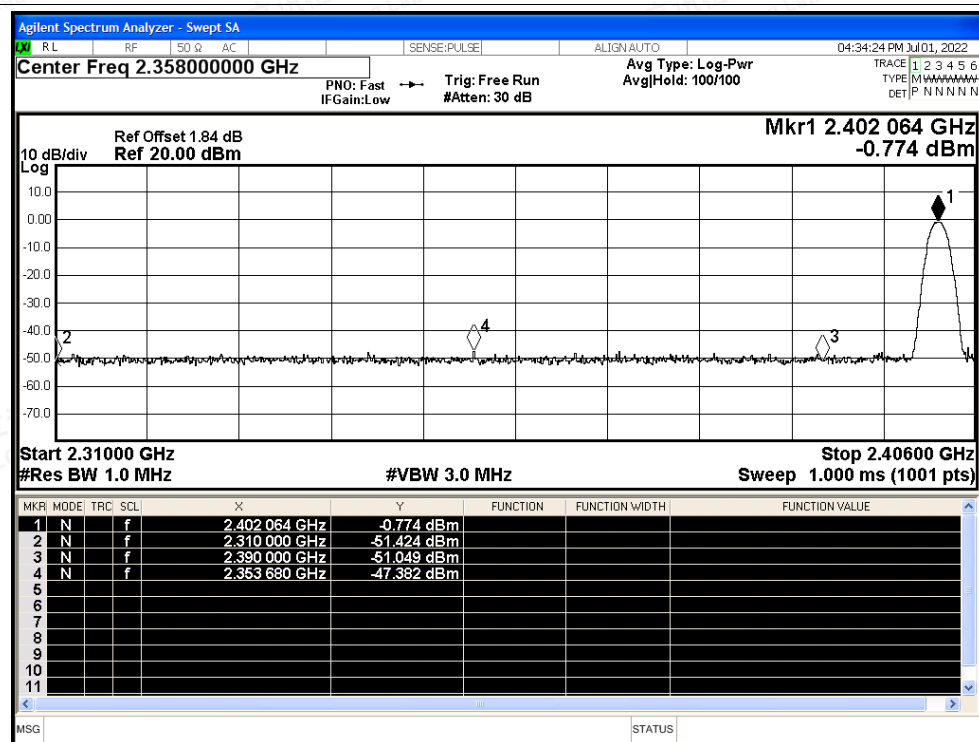


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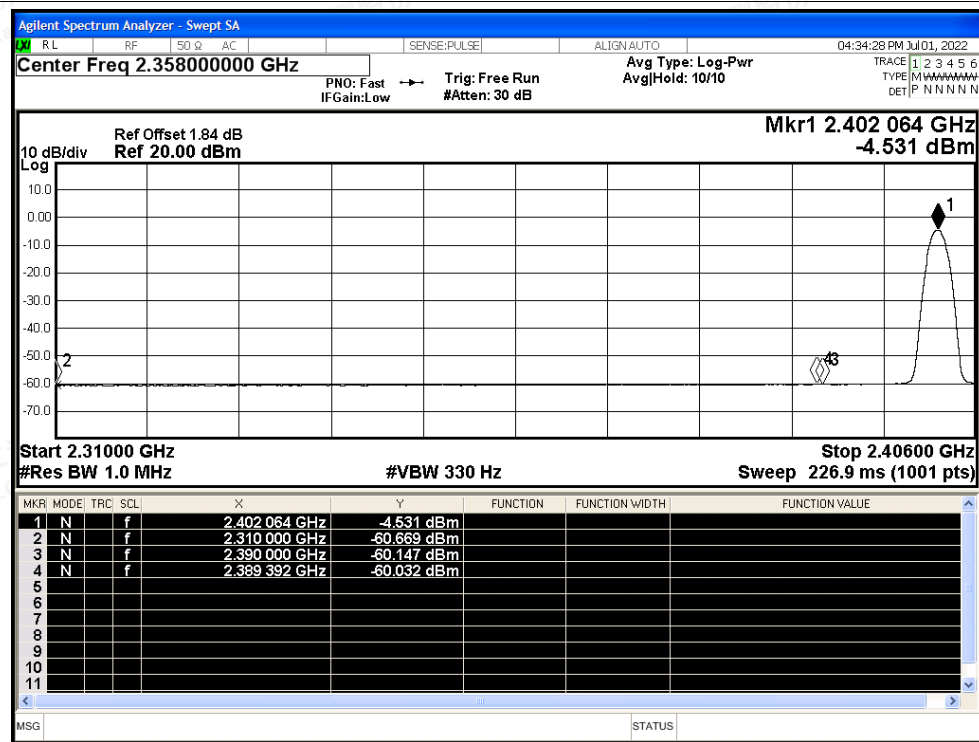




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

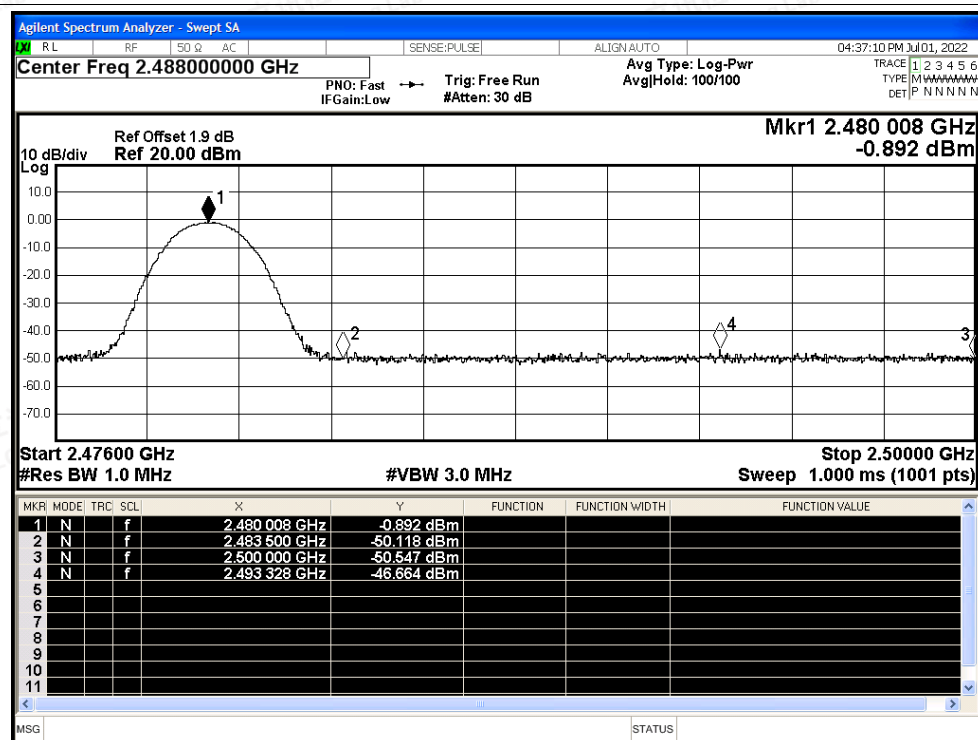


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

