



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: DockLinQ 30 pin bluetooth adapter

Test Model: DockLinQ

Environmental Conditions

Temperature:	23.4° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	monkey.Li
Supervised by:	Libin



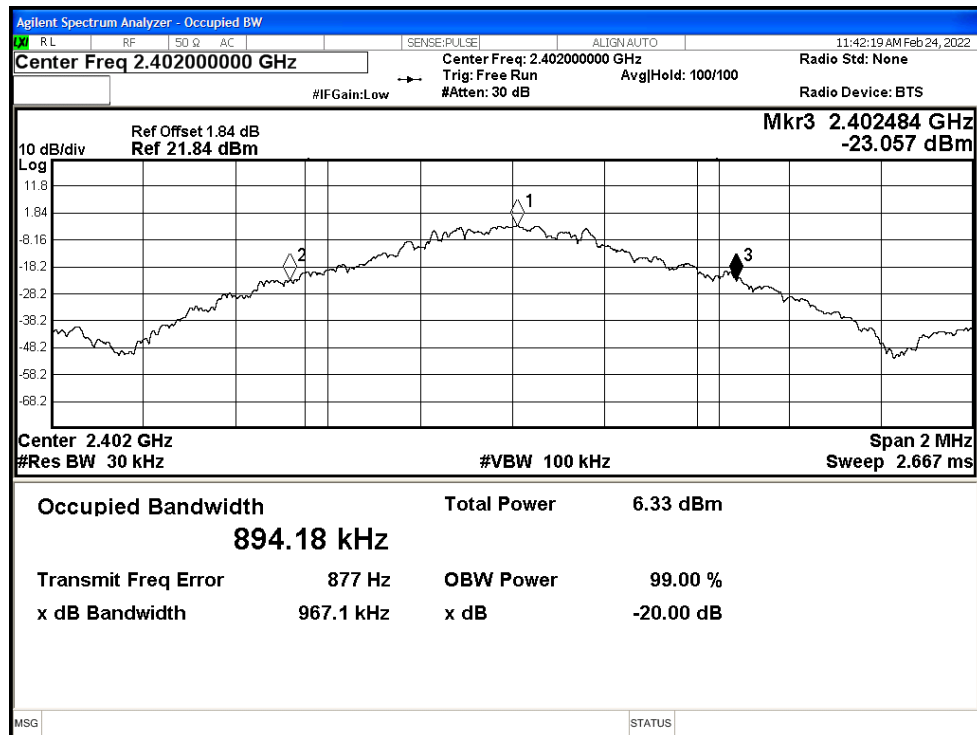
A.1 20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	20 dB Bandwidth (MHz)	Limit 20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.967	0	Pass
NVNT	1-DH5	2441	Ant1	0.964	0	Pass
NVNT	1-DH5	2480	Ant1	0.974	0	Pass
NVNT	2-DH5	2402	Ant1	1.285	0	Pass
NVNT	2-DH5	2441	Ant1	1.309	0	Pass
NVNT	2-DH5	2480	Ant1	1.305	0	Pass
NVNT	3-DH5	2402	Ant1	1.302	0	Pass
NVNT	3-DH5	2441	Ant1	1.299	0	Pass
NVNT	3-DH5	2480	Ant1	1.307	0	Pass



Test Graphs

20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

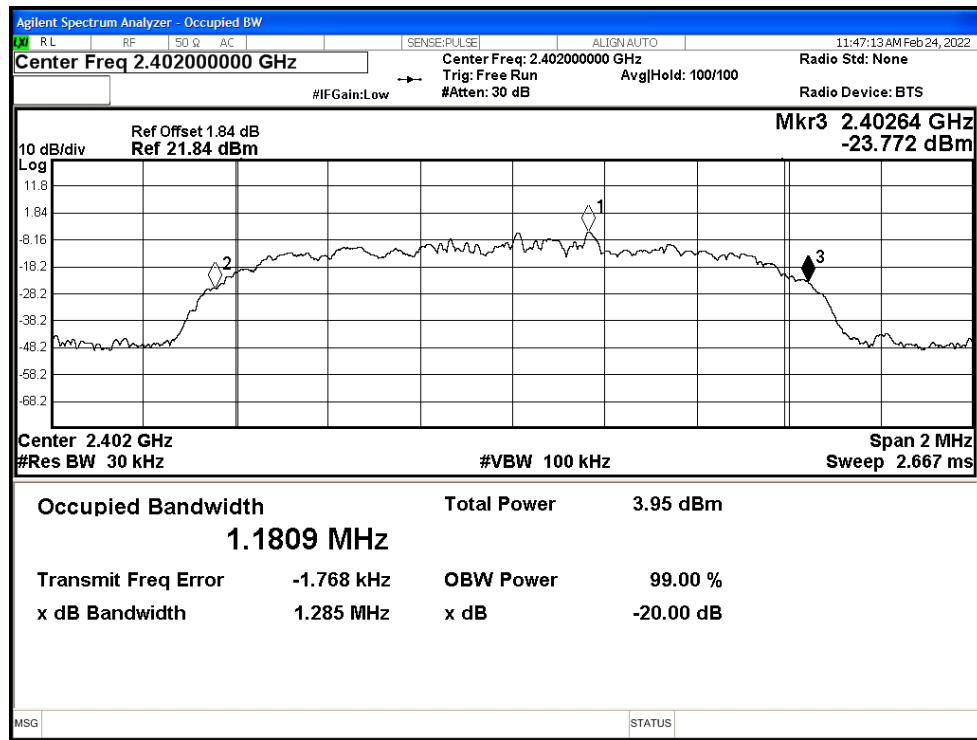




20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

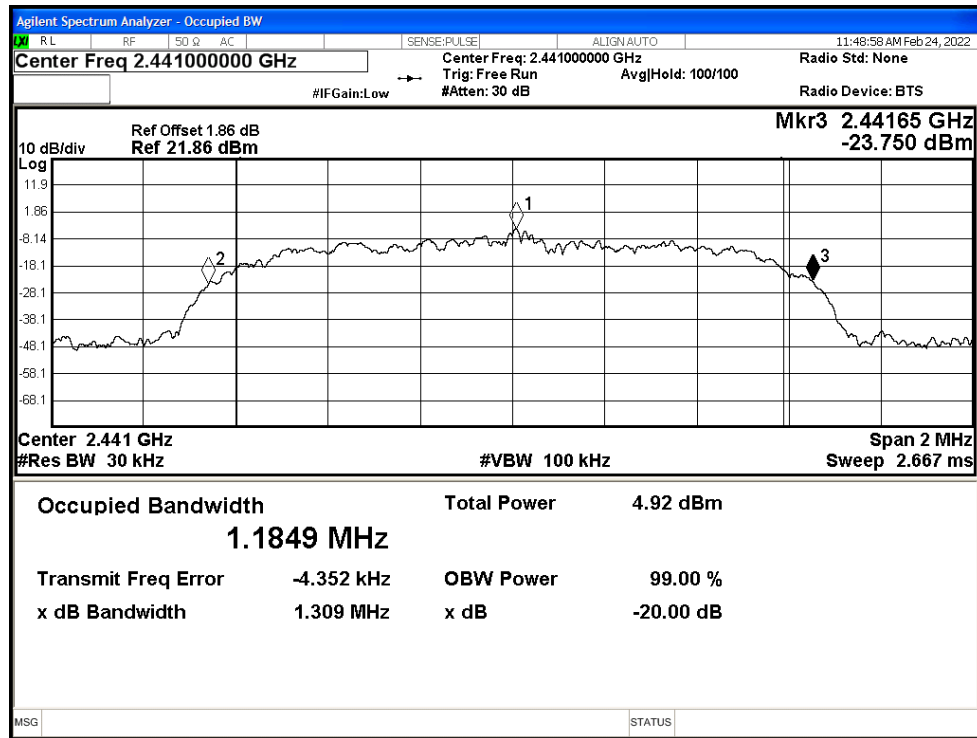


20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

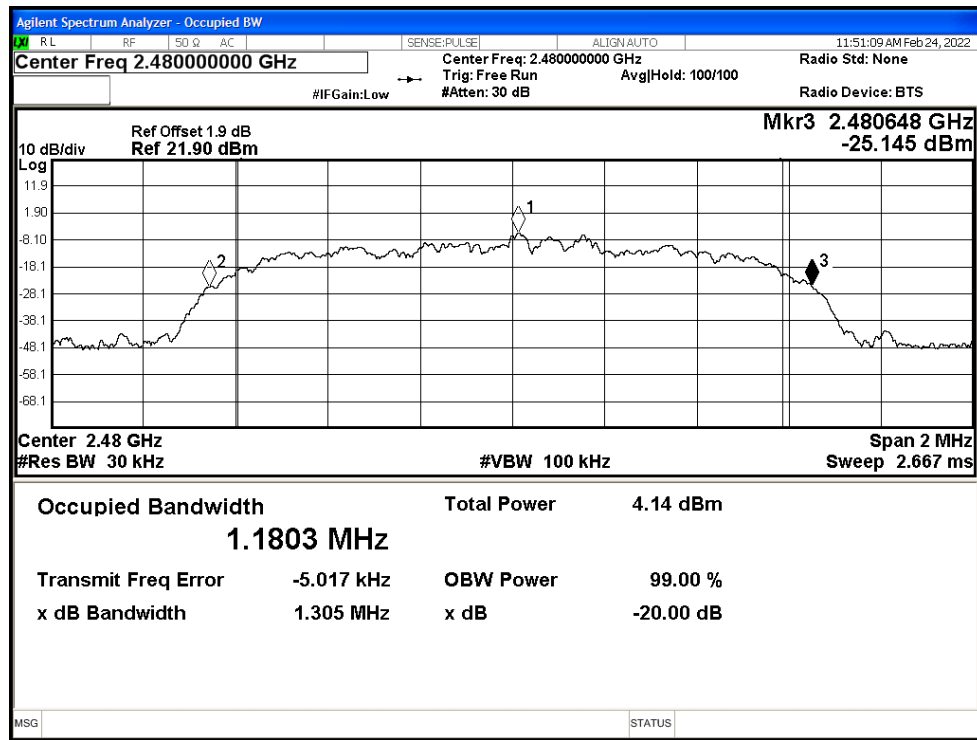




20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

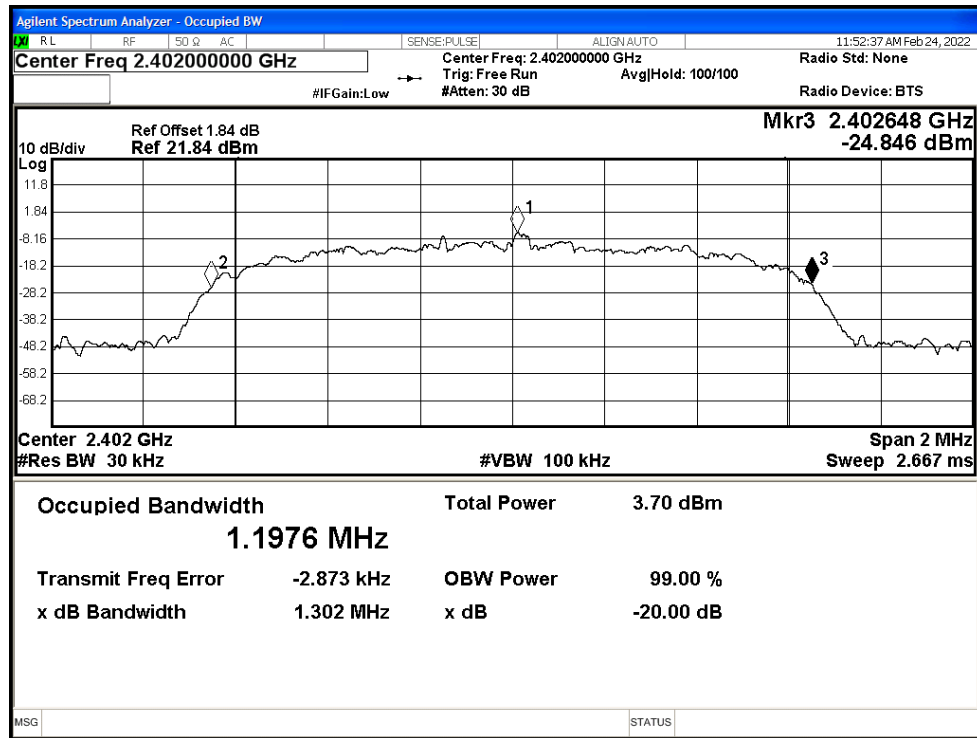


20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

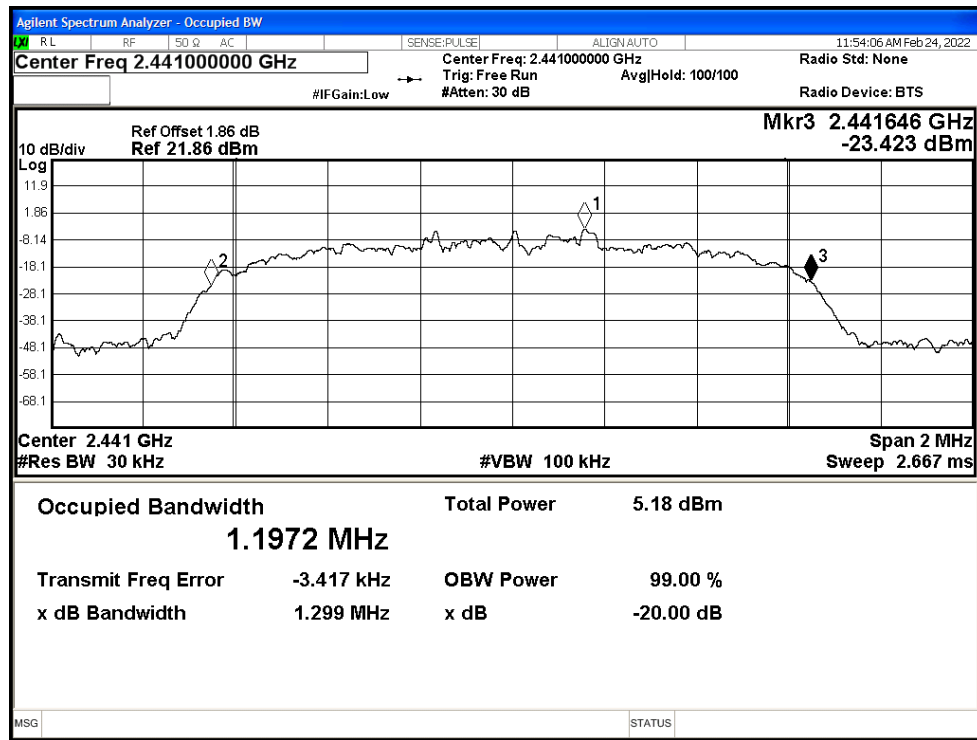


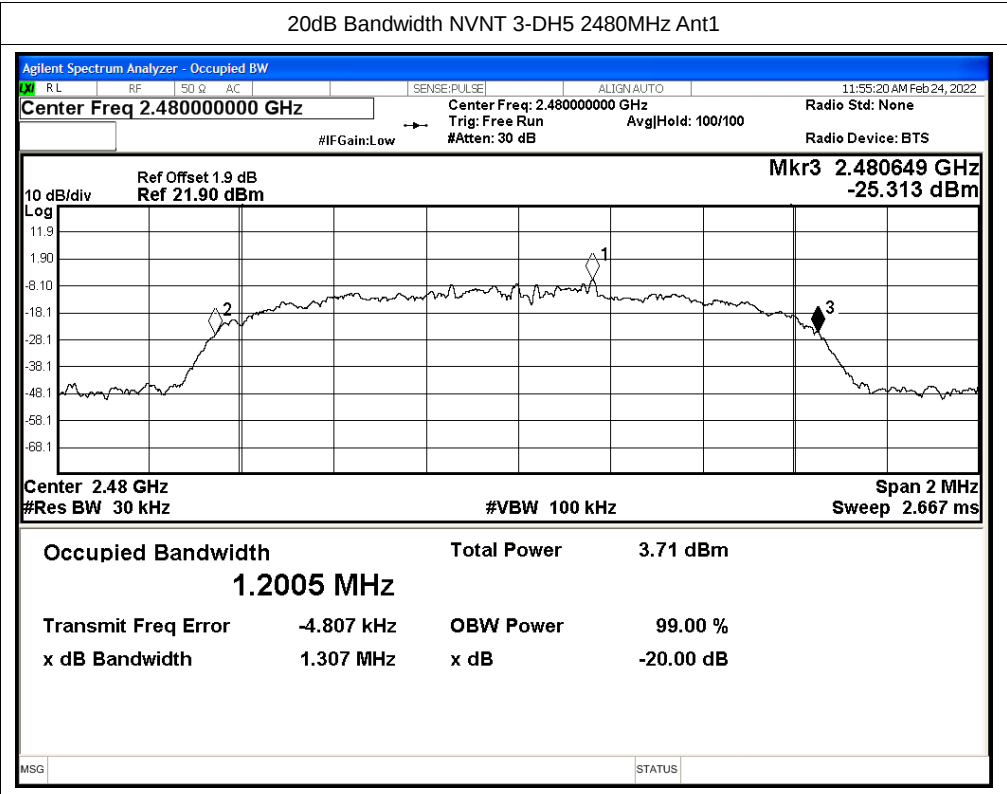


20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

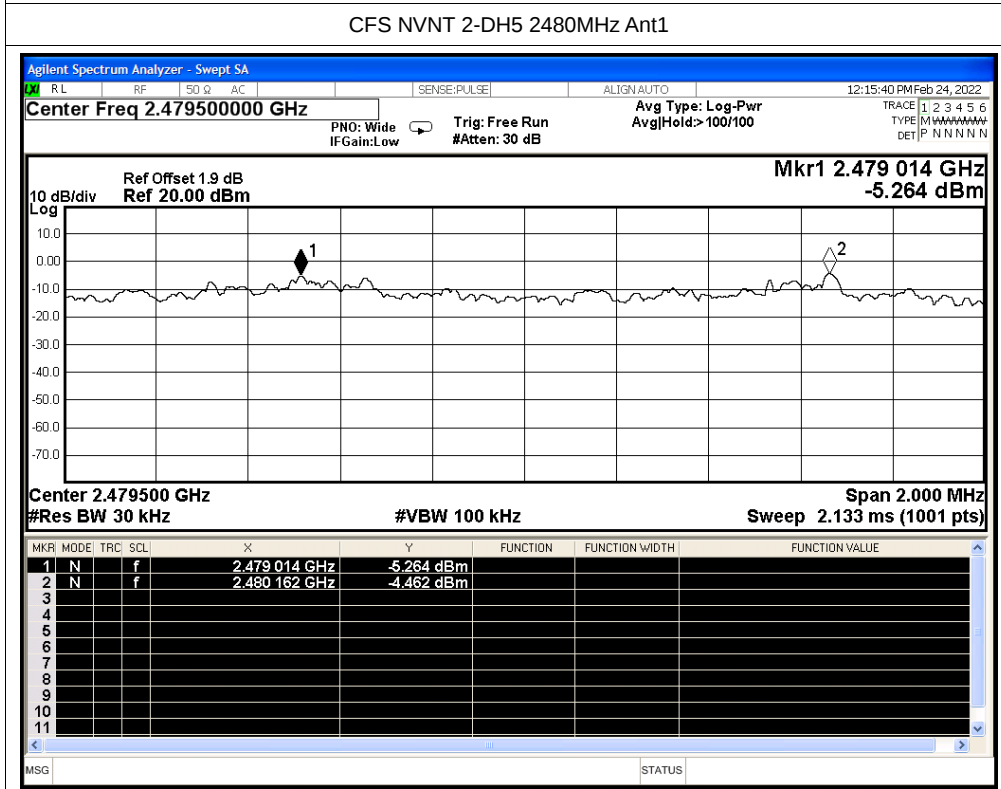
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.06	21	Pass
NVNT	1-DH5	2441	Ant1	1.27	21	Pass
NVNT	1-DH5	2480	Ant1	-0.13	21	Pass
NVNT	2-DH5	2402	Ant1	-0.84	21	Pass
NVNT	2-DH5	2441	Ant1	0.43	21	Pass
NVNT	2-DH5	2480	Ant1	-0.89	21	Pass
NVNT	3-DH5	2402	Ant1	-0.77	21	Pass
NVNT	3-DH5	2441	Ant1	0.59	21	Pass
NVNT	3-DH5	2480	Ant1	-0.72	21	Pass

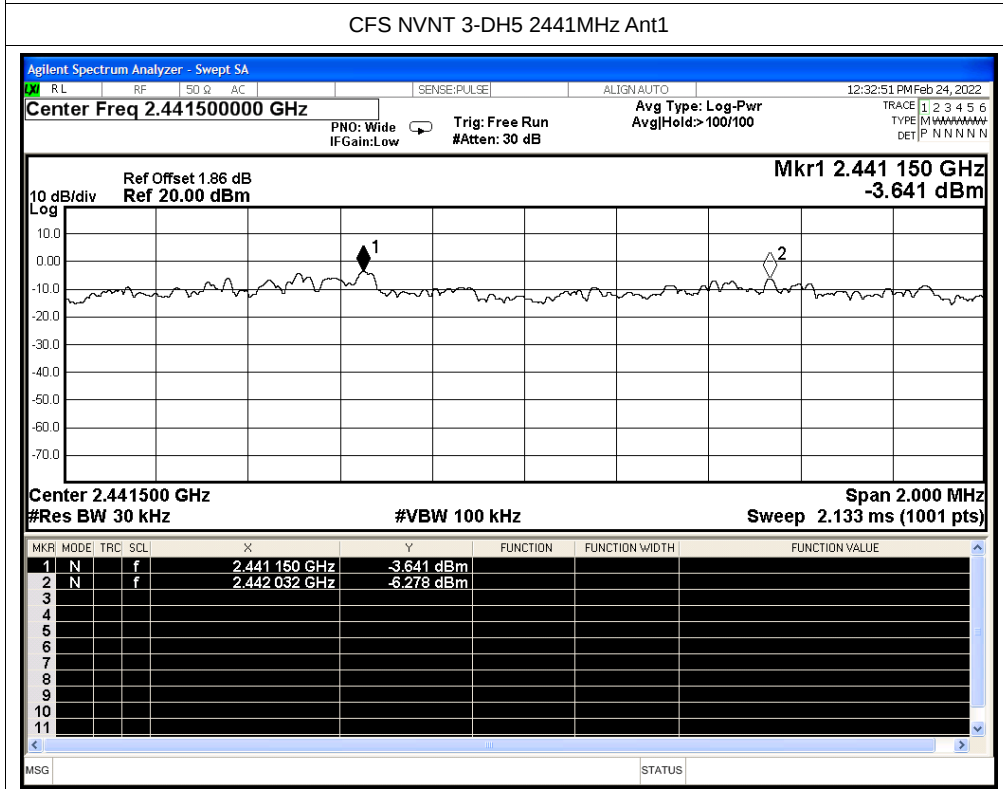


A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.99	2402.972	0.982	0.645	Pass
NVNT	1-DH5	Ant1	2440.976	2442.02	1.044	0.643	Pass
NVNT	1-DH5	Ant1	2479.012	2480.01	0.998	0.649	Pass
NVNT	2-DH5	Ant1	2402.008	2403.164	1.156	0.857	Pass
NVNT	2-DH5	Ant1	2441.006	2442.014	1.008	0.873	Pass
NVNT	2-DH5	Ant1	2479.014	2480.162	1.148	0.87	Pass
NVNT	3-DH5	Ant1	2402.16	2403.036	0.876	0.868	Pass
NVNT	3-DH5	Ant1	2441.15	2442.032	0.882	0.866	Pass
NVNT	3-DH5	Ant1	2479.012	2480.166	1.154	0.871	Pass

Shenzhen LCS Compliance Testing Laboratory Ltd.



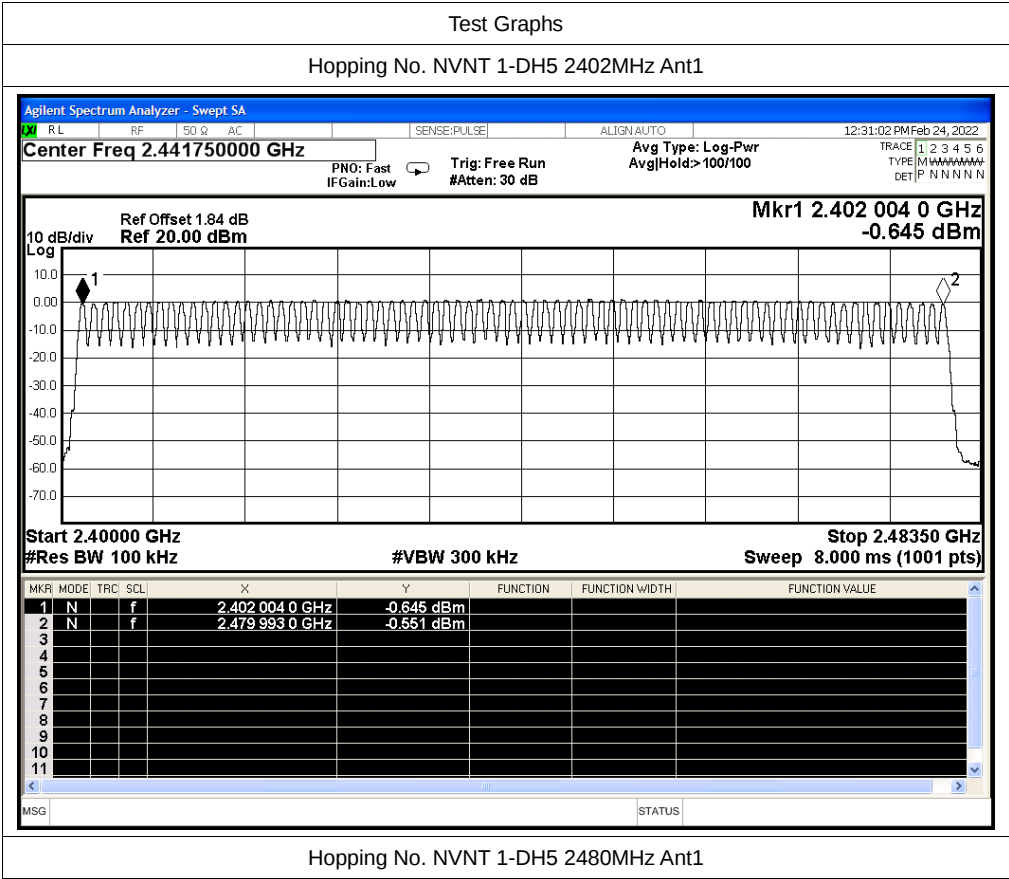


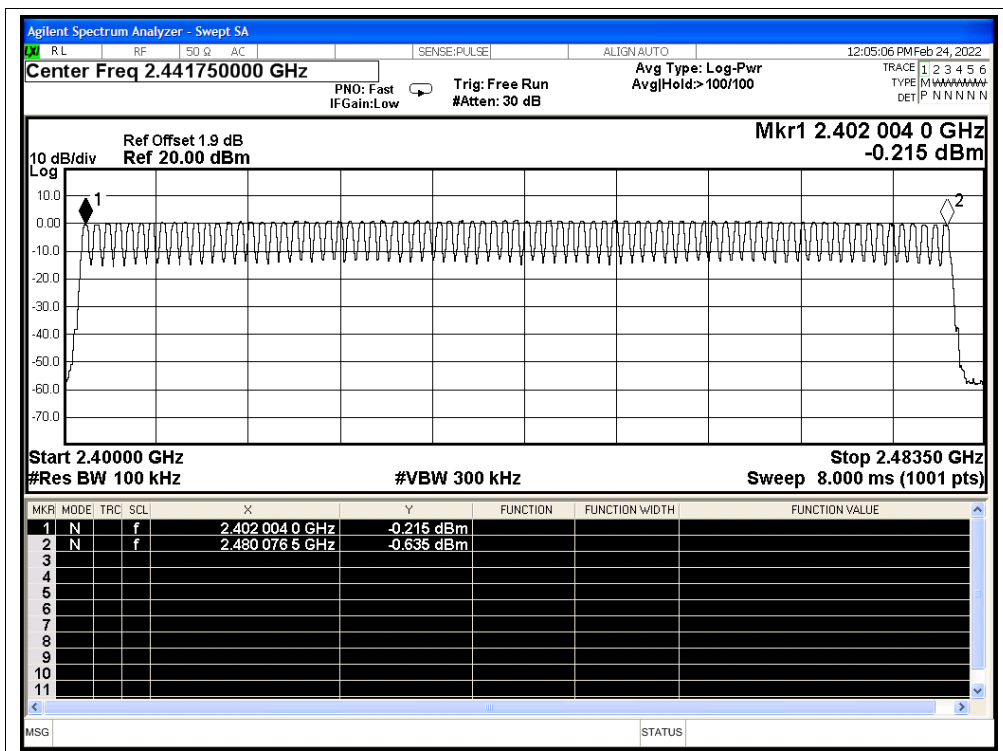


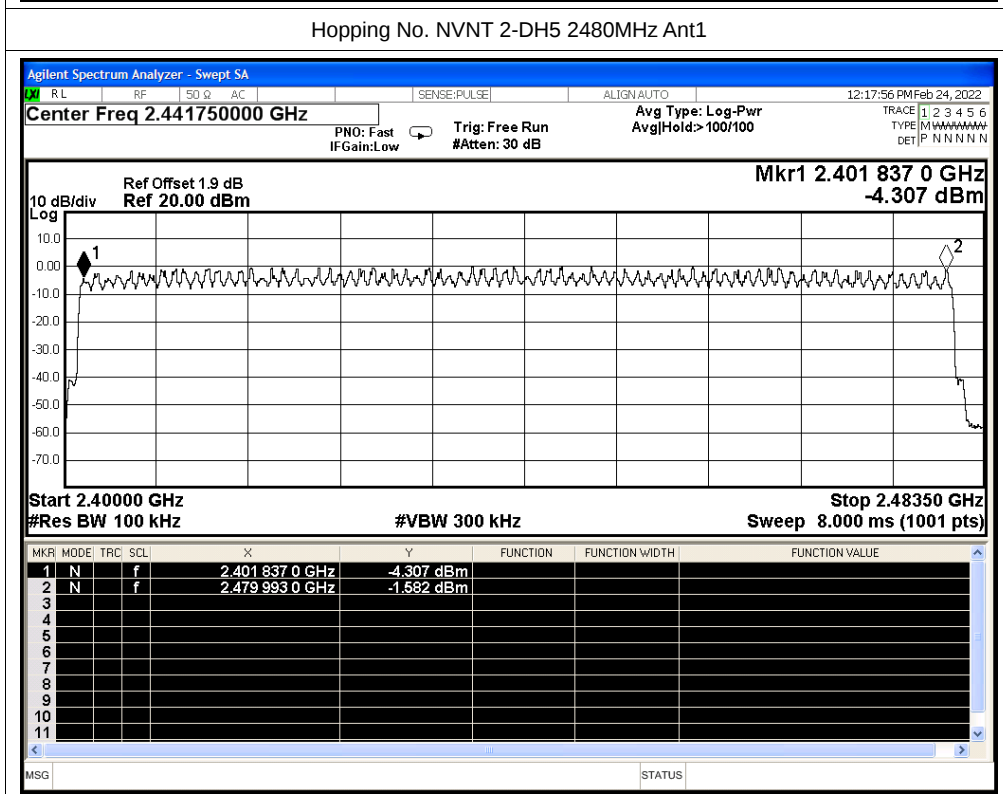


A.5 Number of hopping channels

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









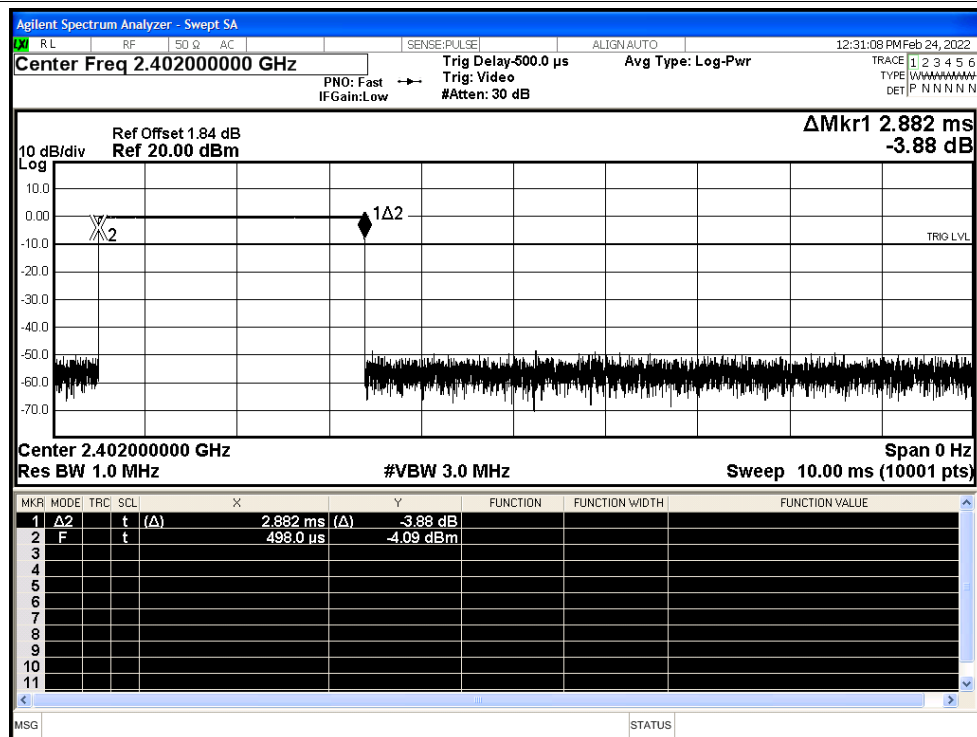
A.4 Time of occupancy

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	308.374	107	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	299.728	104	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	285.318	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	313.92	109	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.883	317.13	110	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.885	351.97	122	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	323.344	112	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.885	331.775	115	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	294.474	102	31600	400	Pass

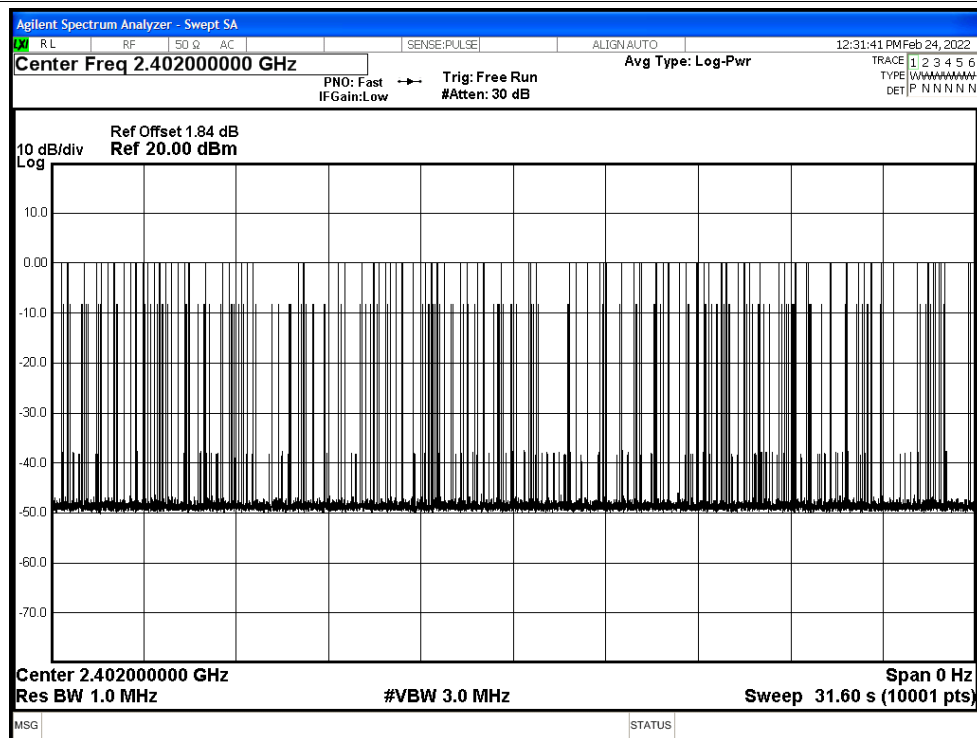


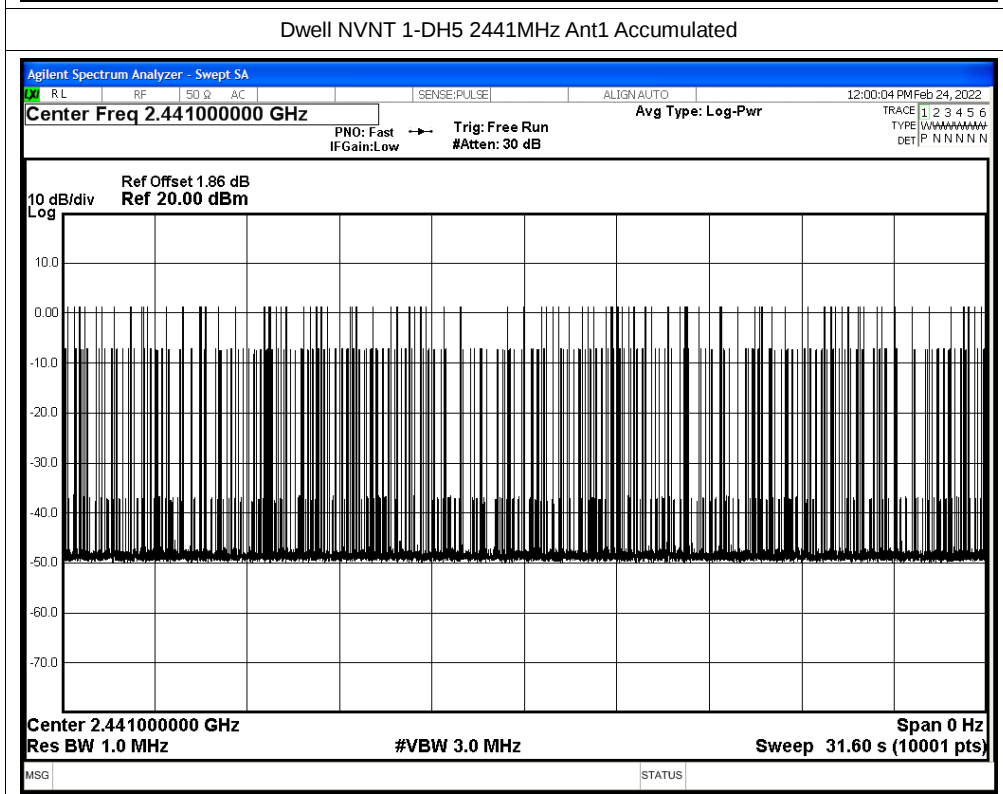
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



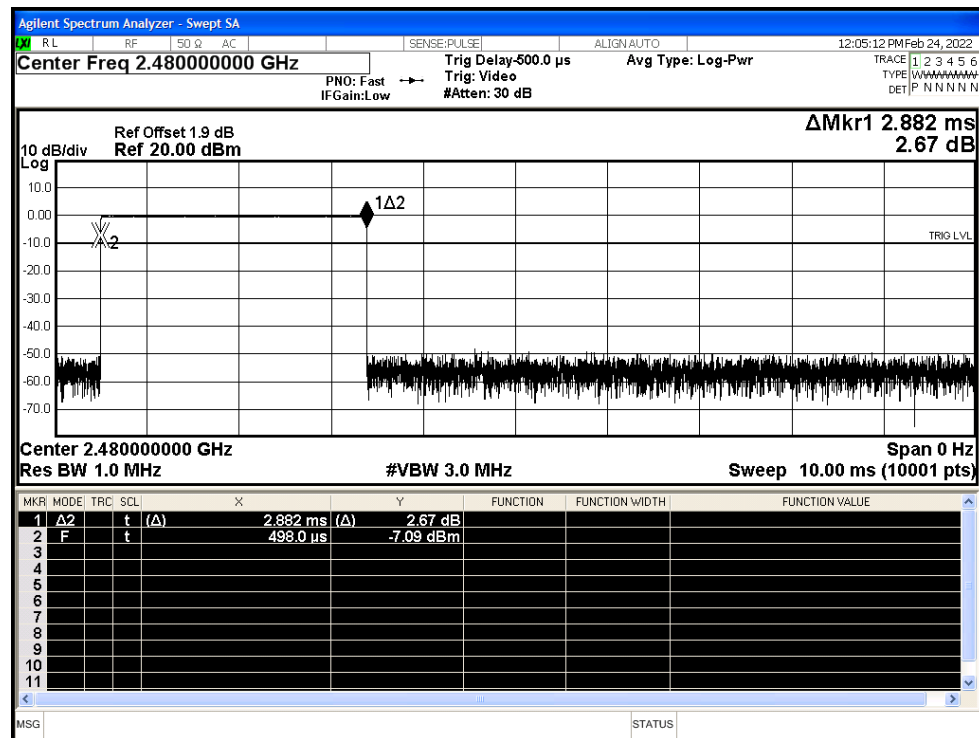
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



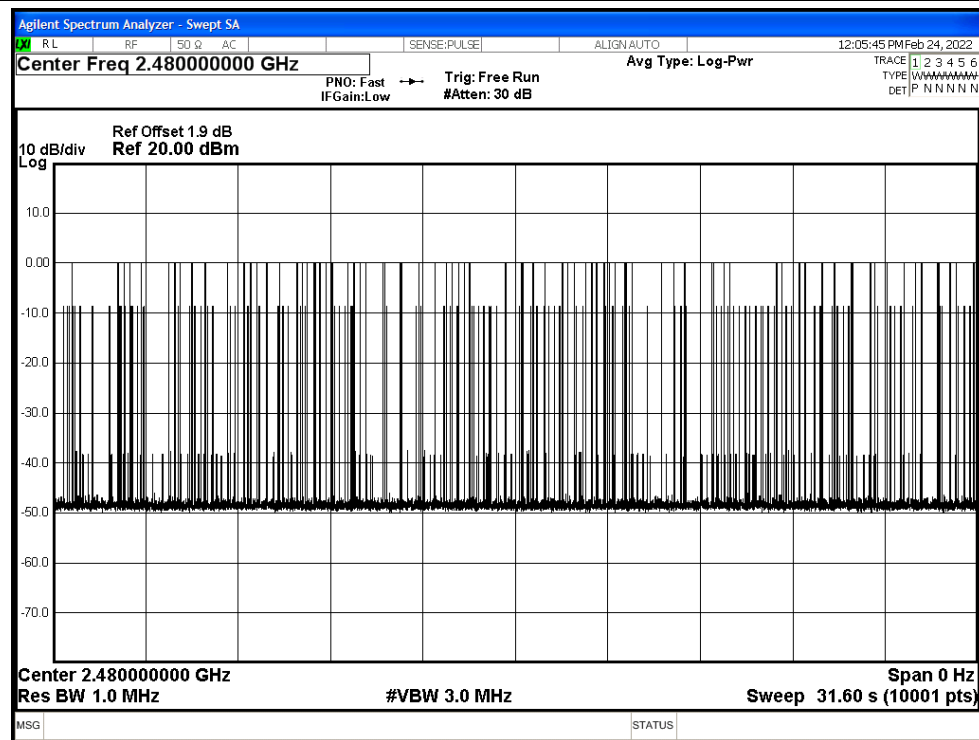




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

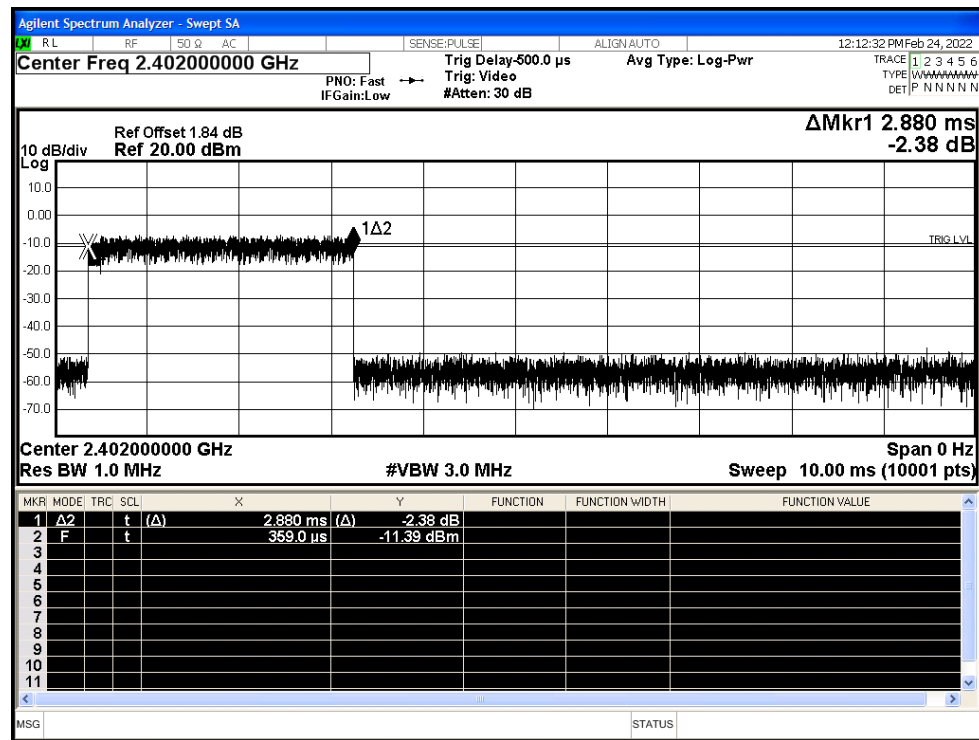


Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated

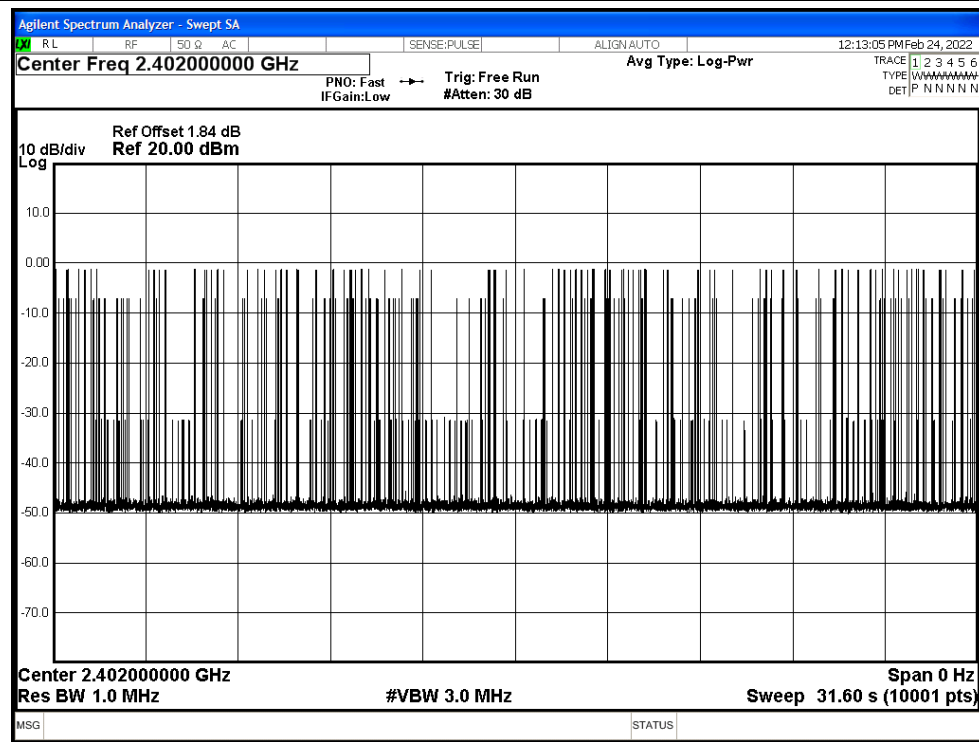




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

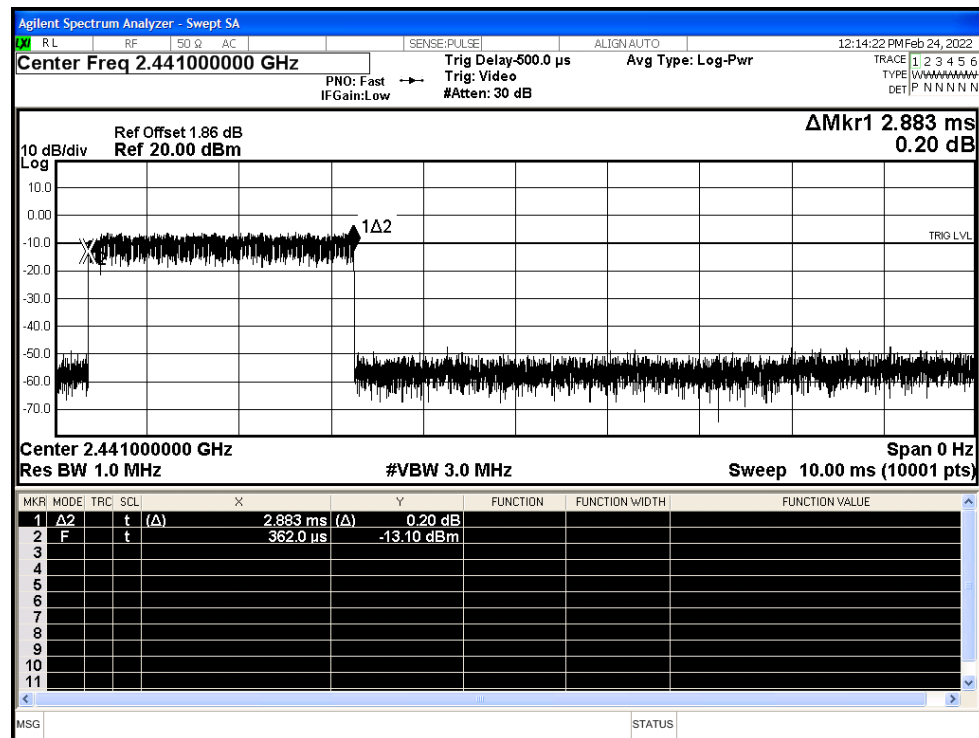


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

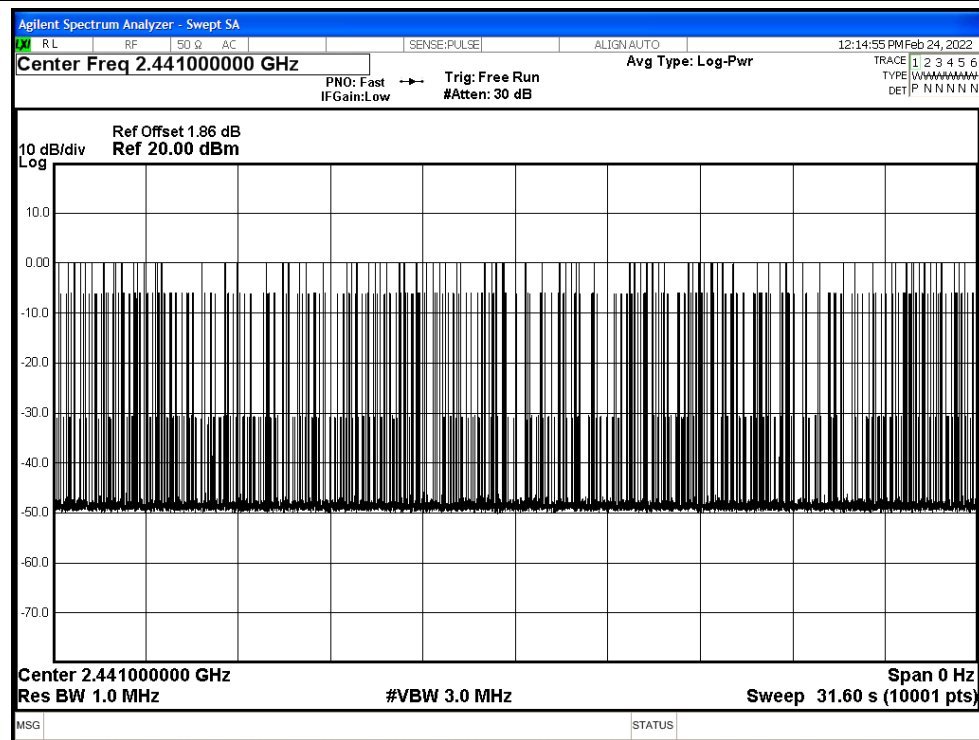




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

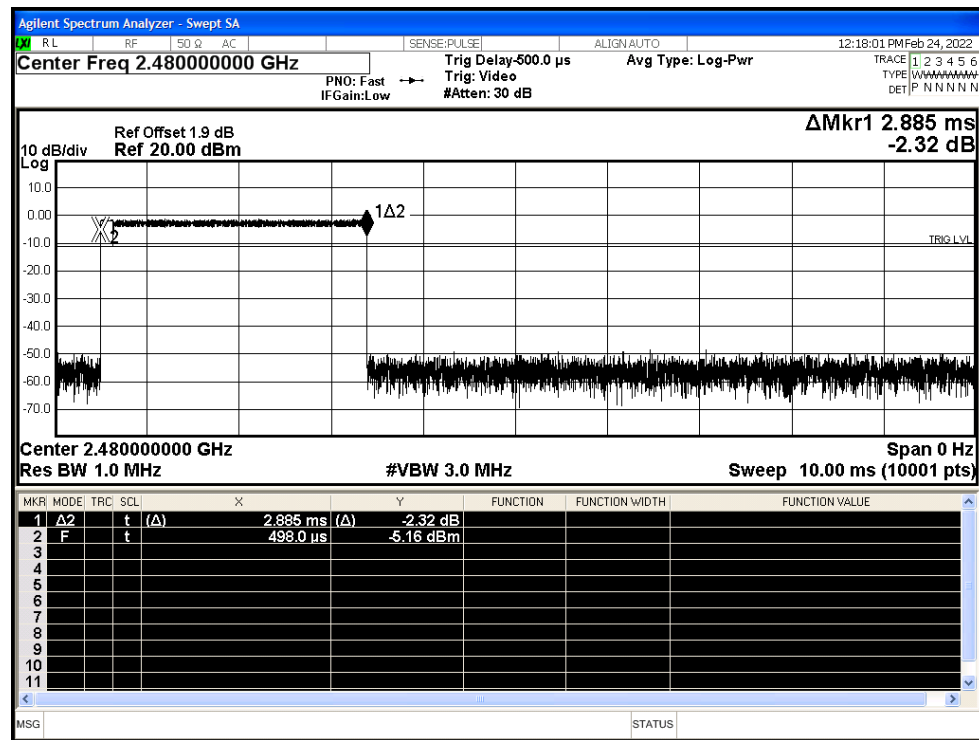


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

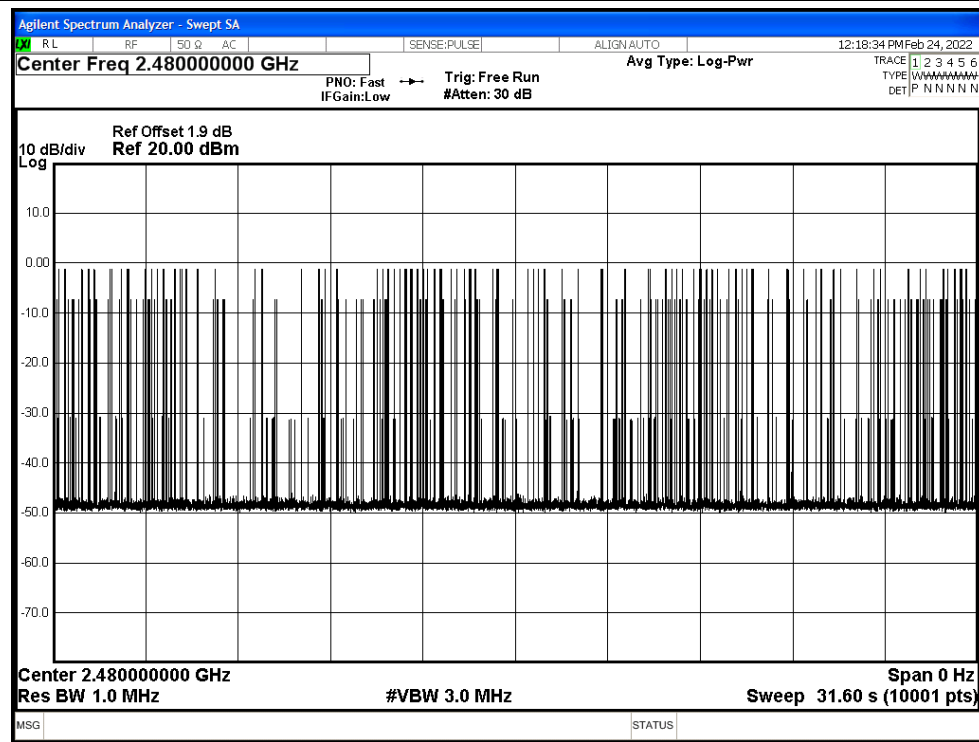


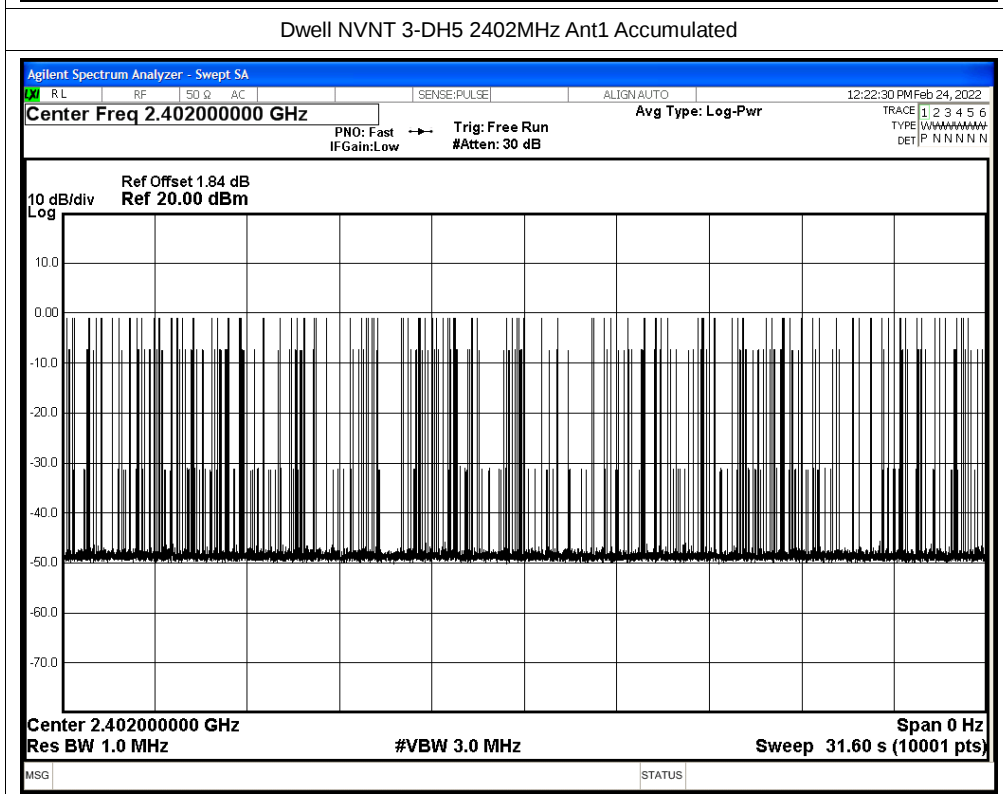


Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



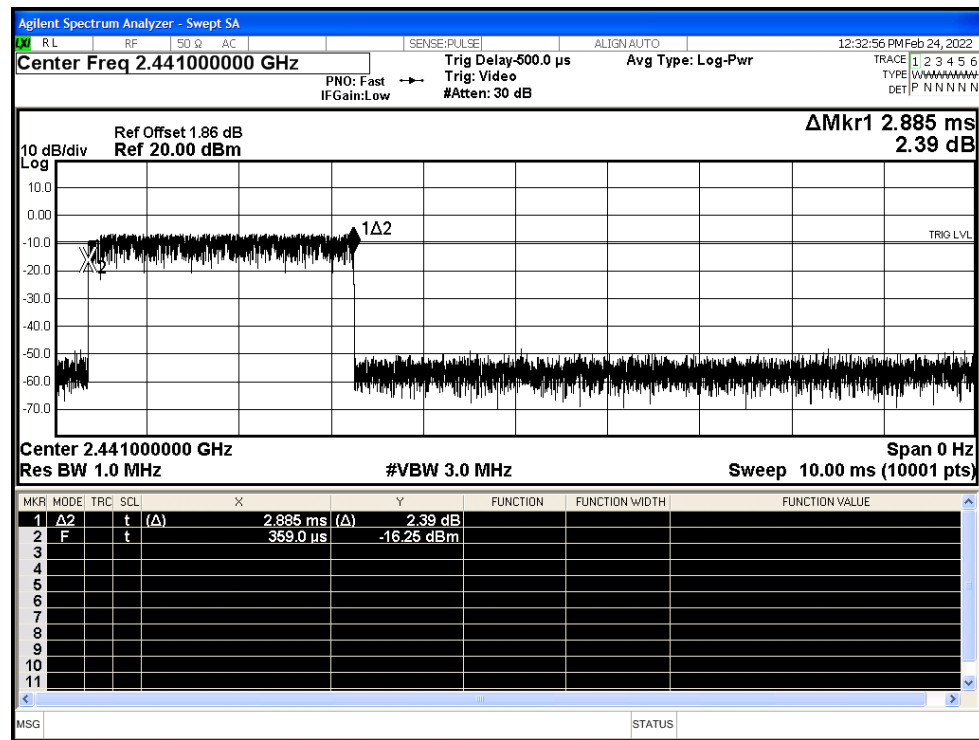
Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



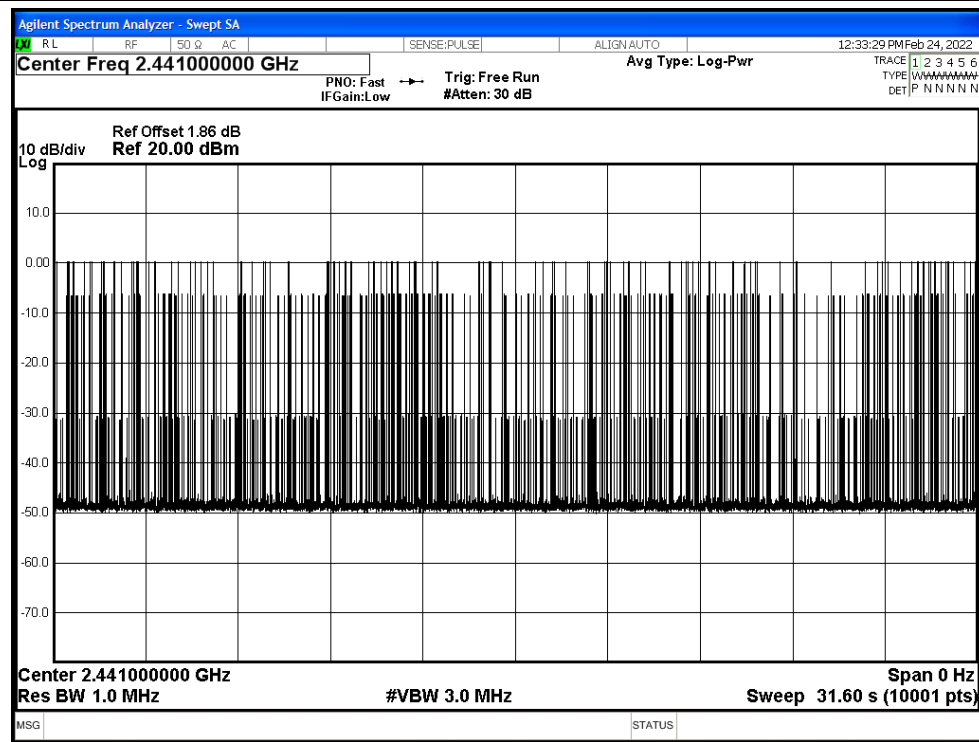




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst

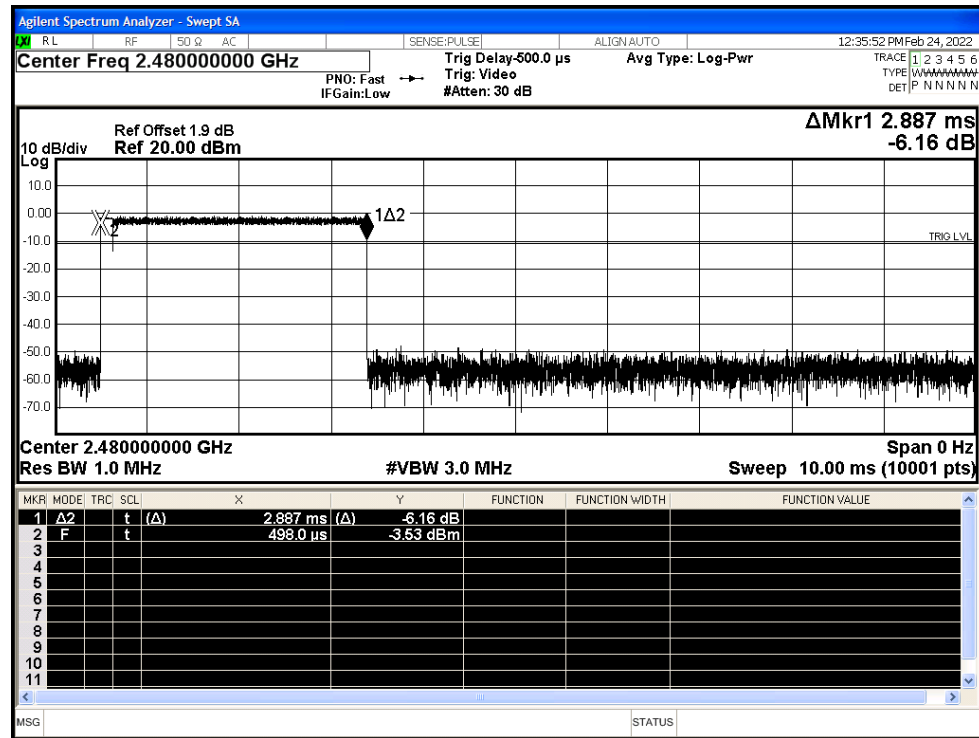


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

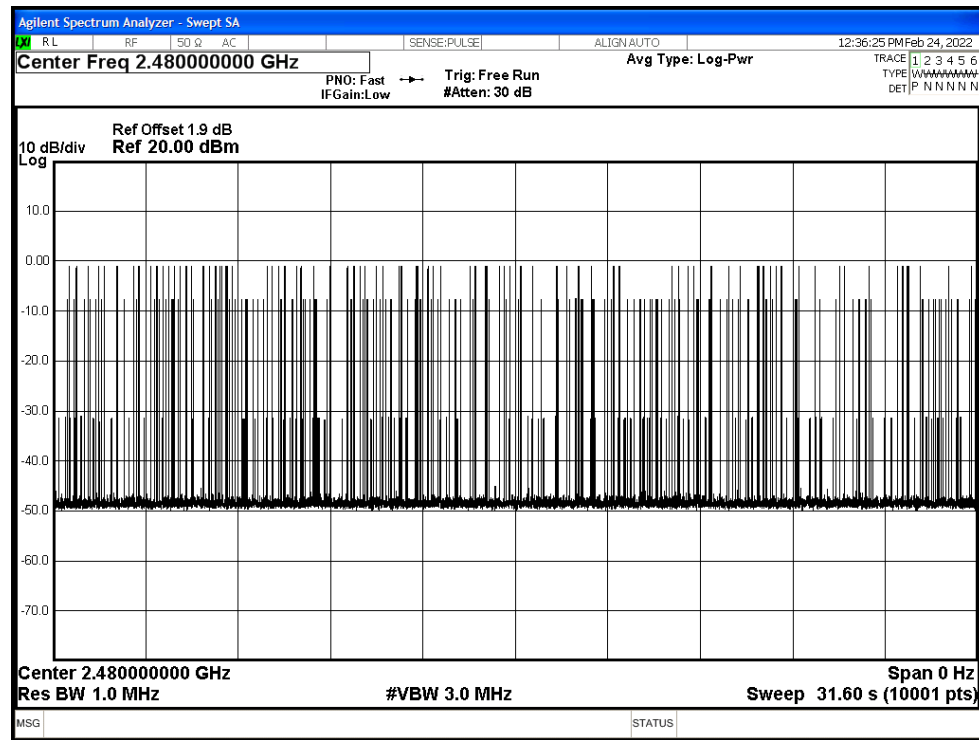


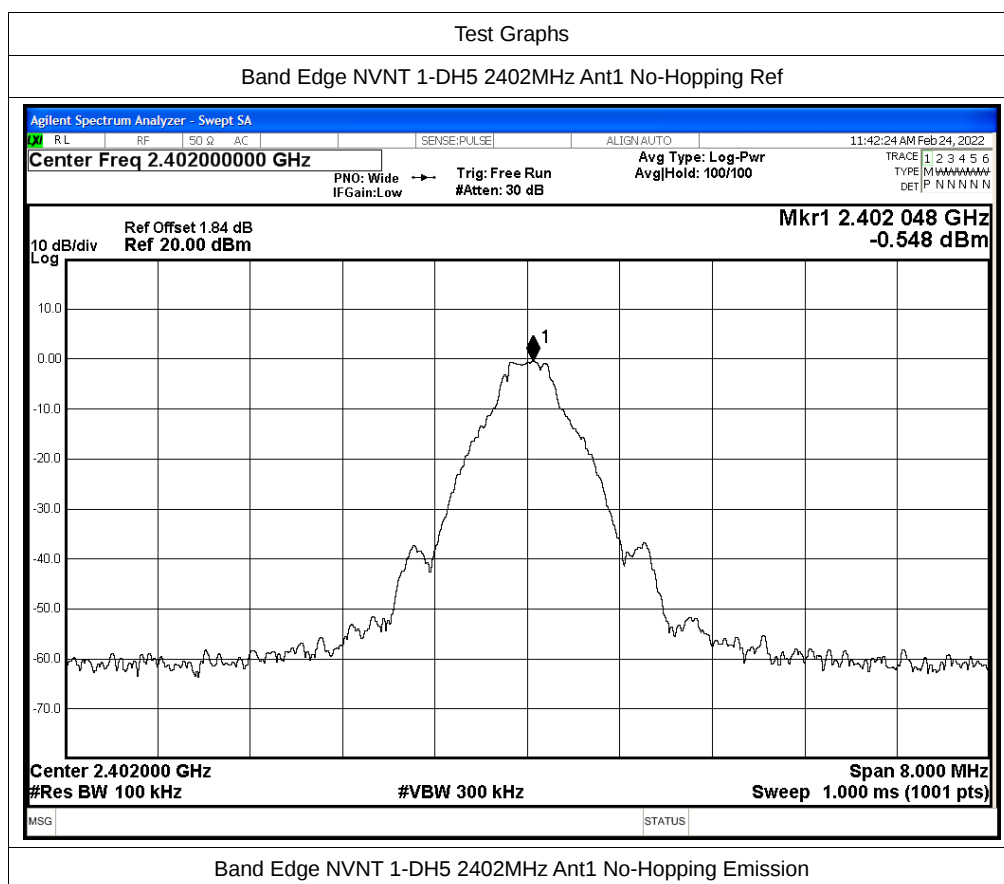


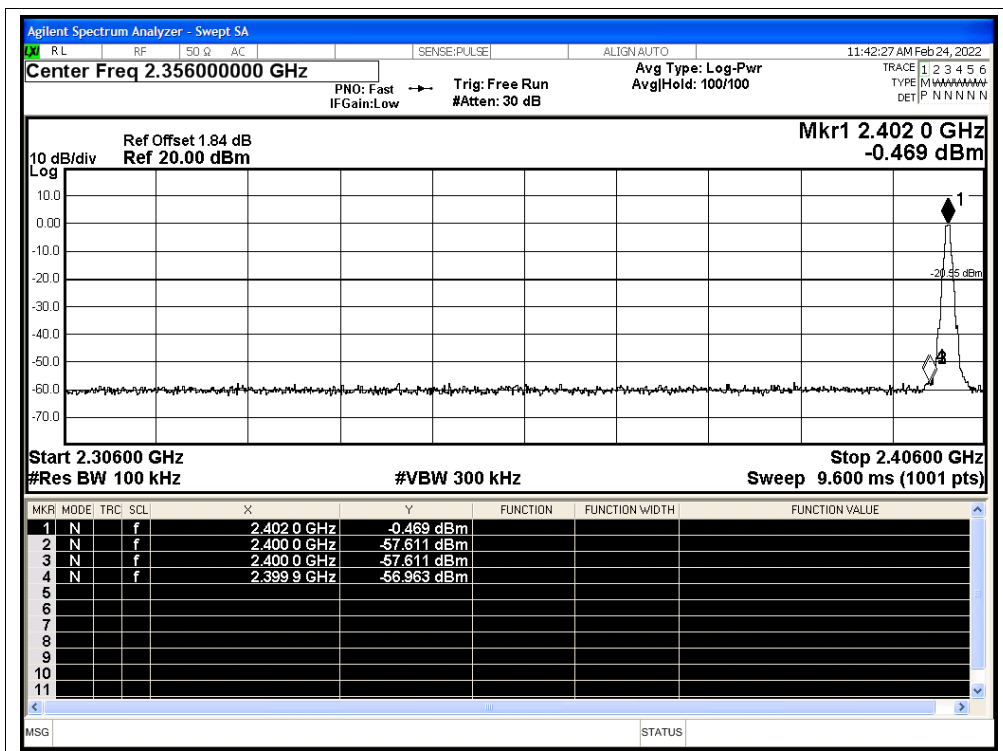
Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

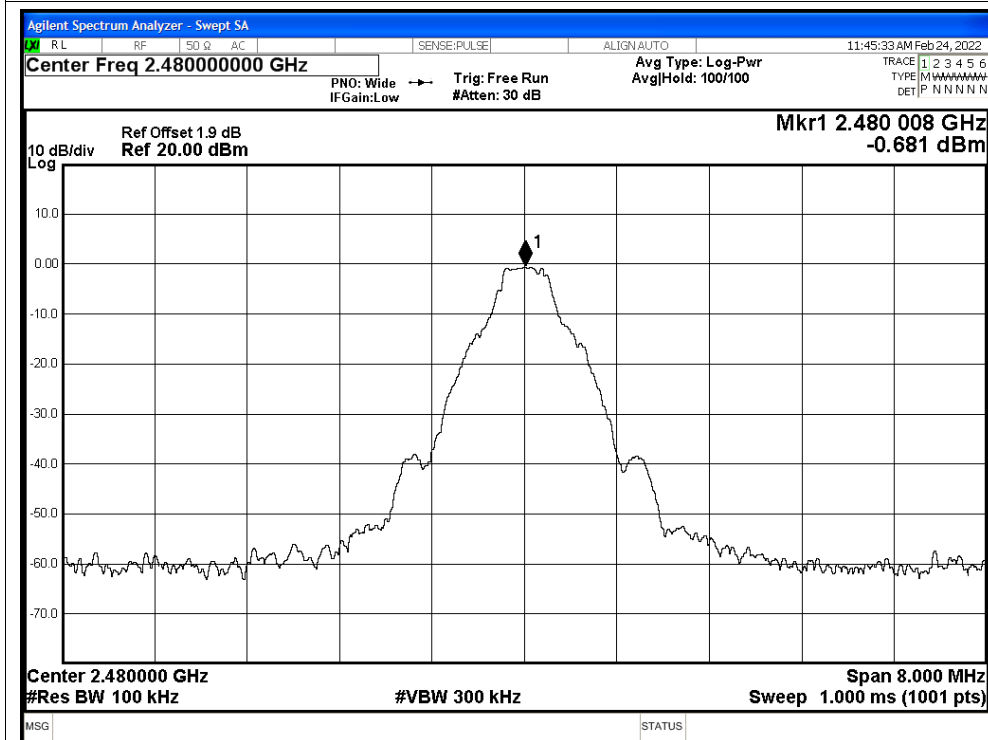




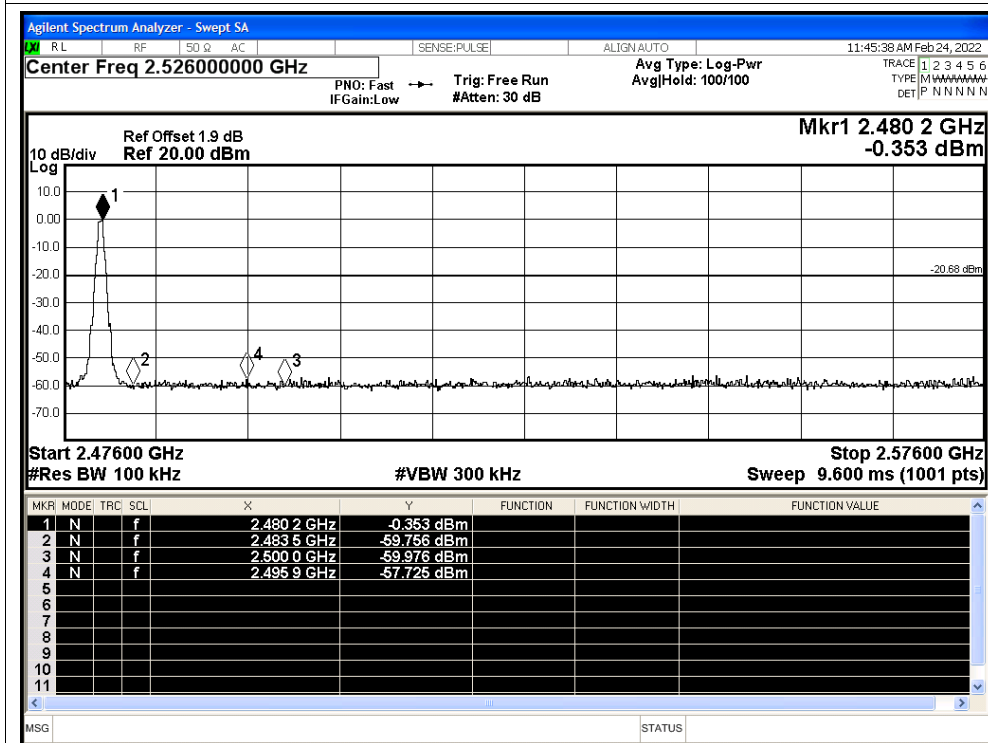




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

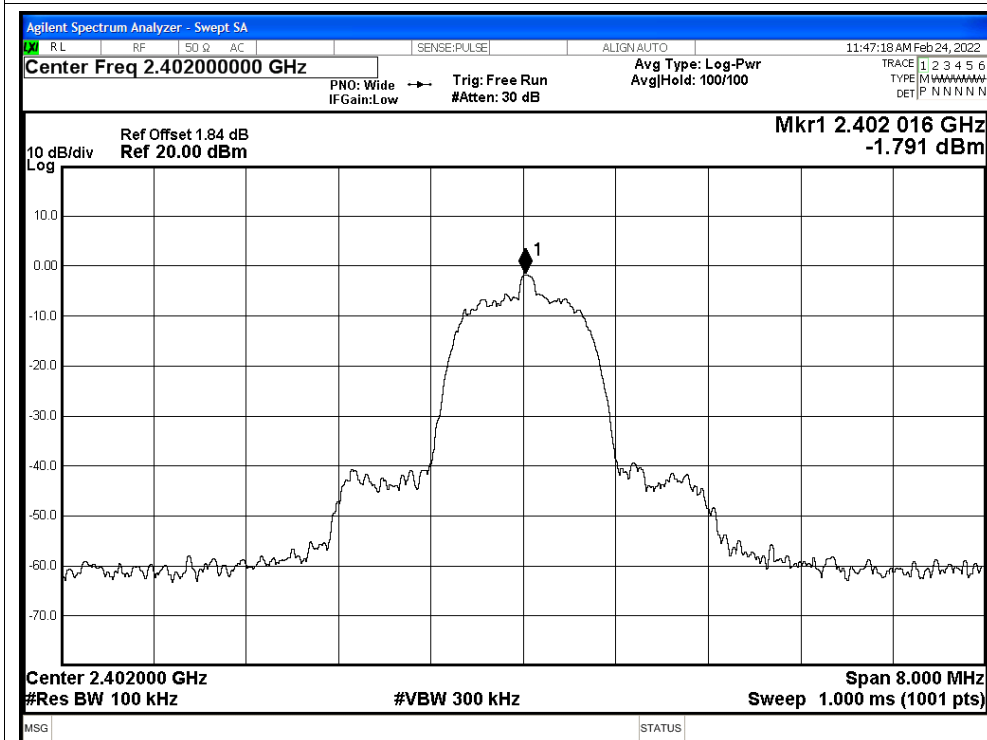


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

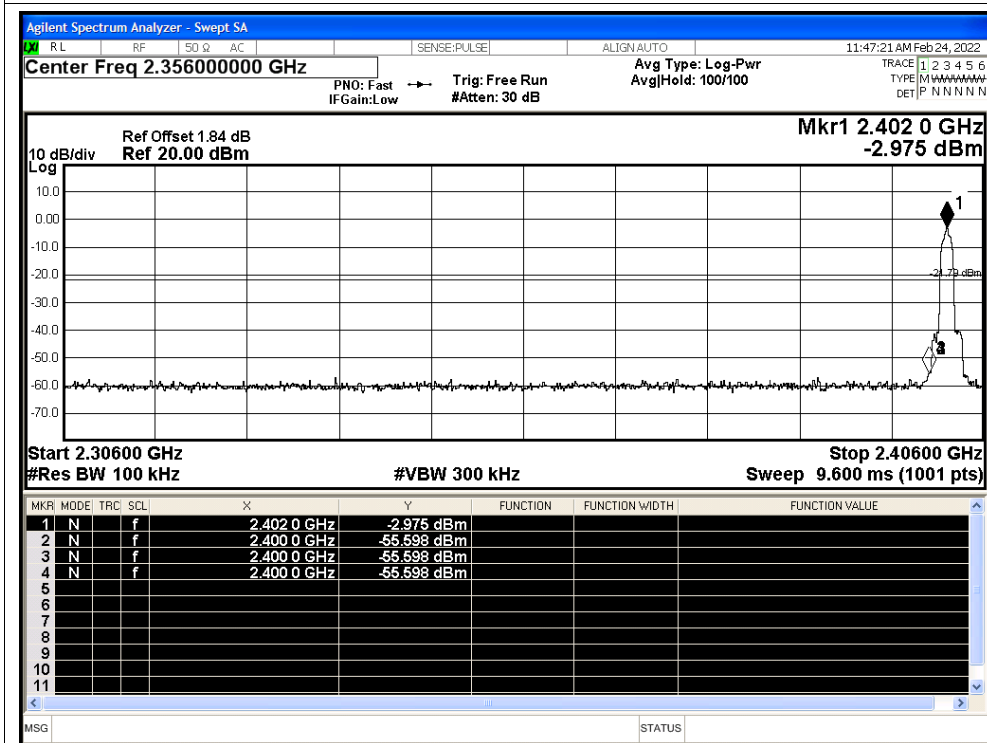




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

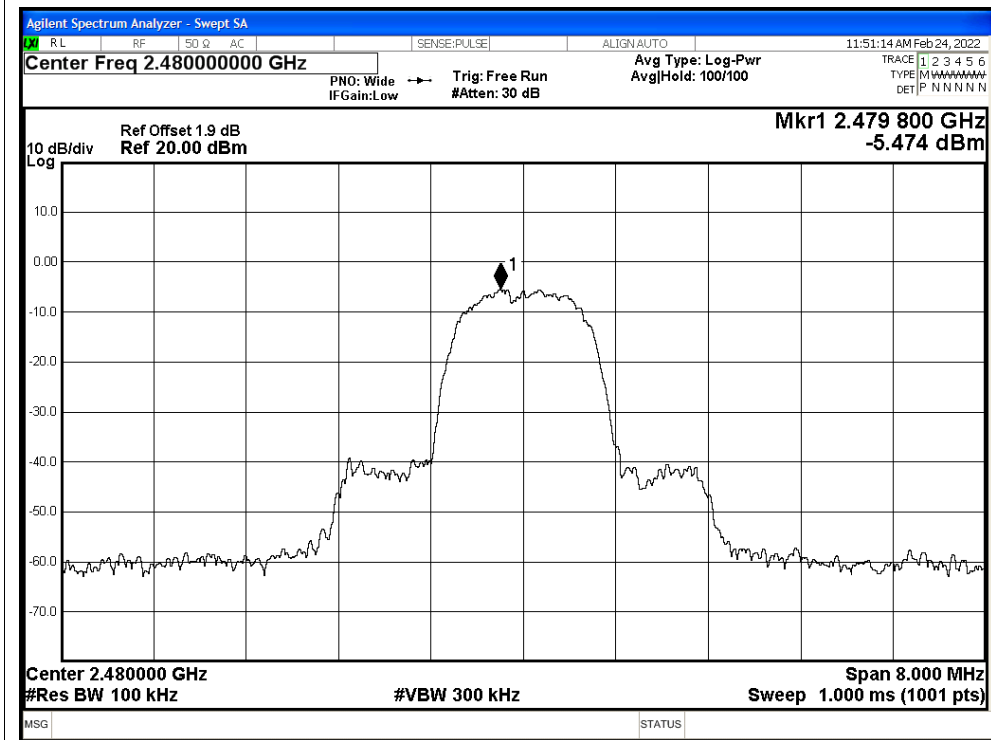


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

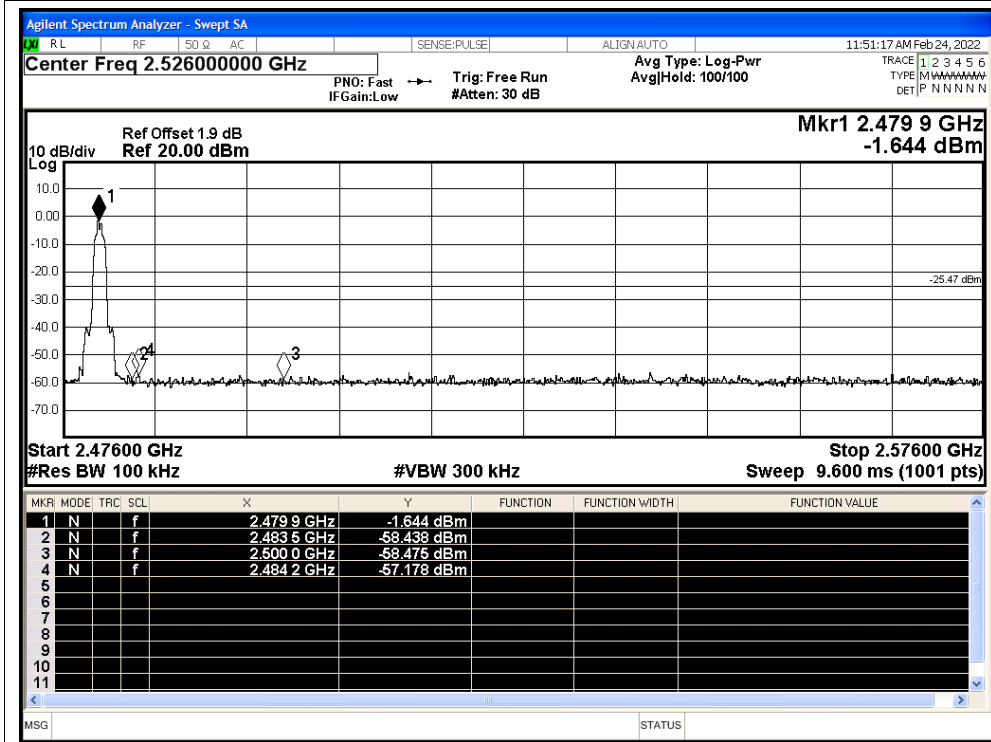




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

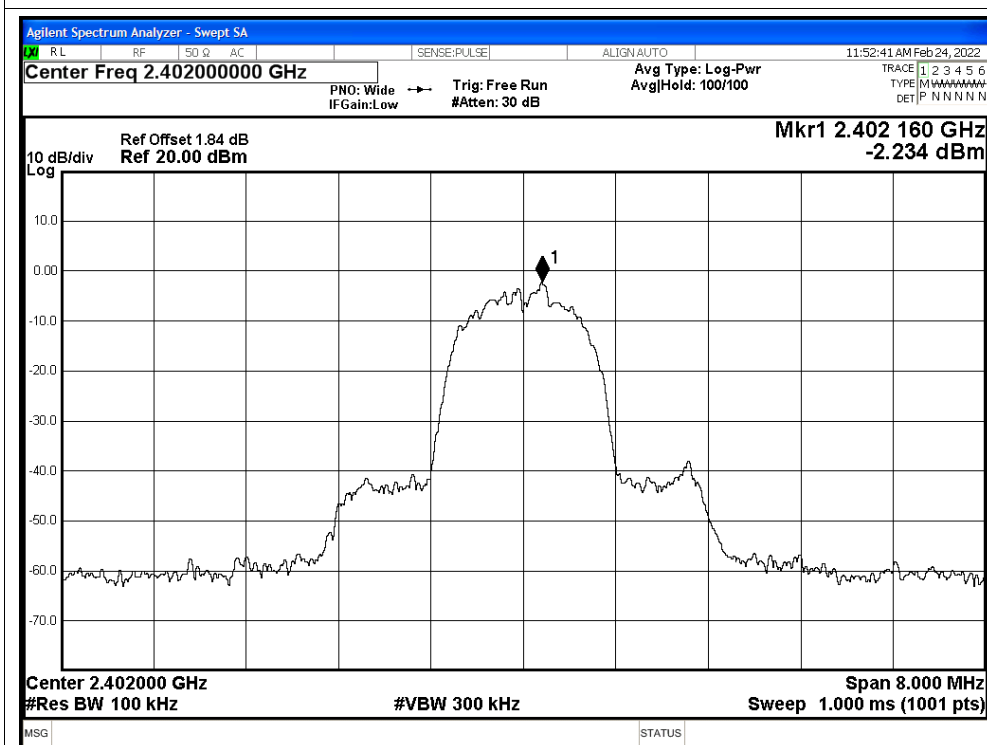


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

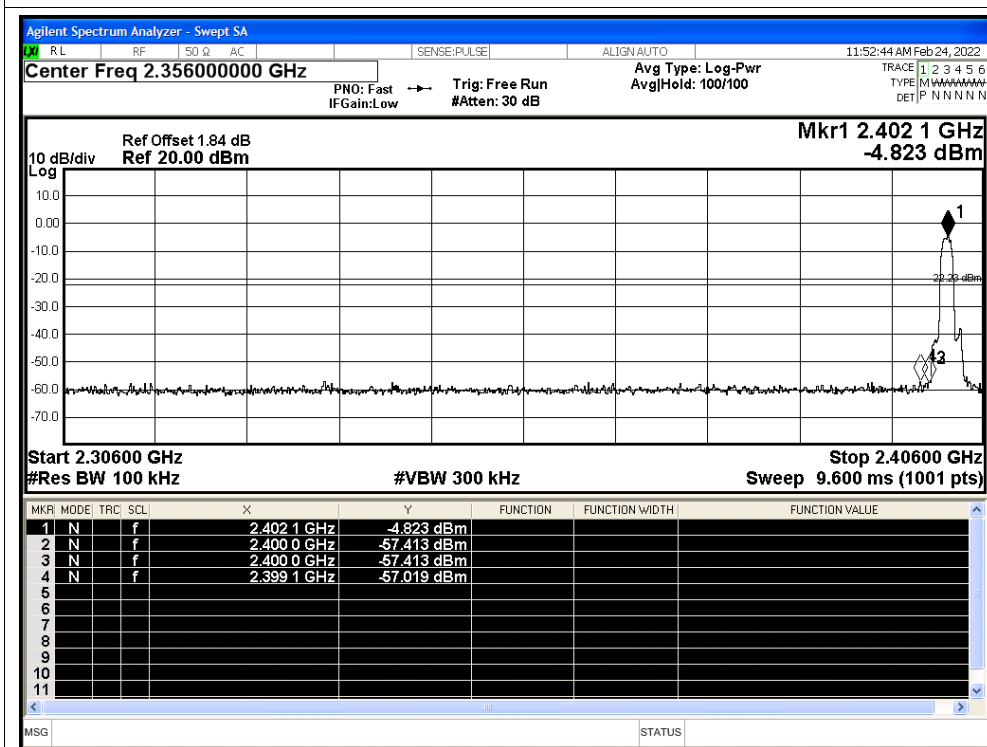




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

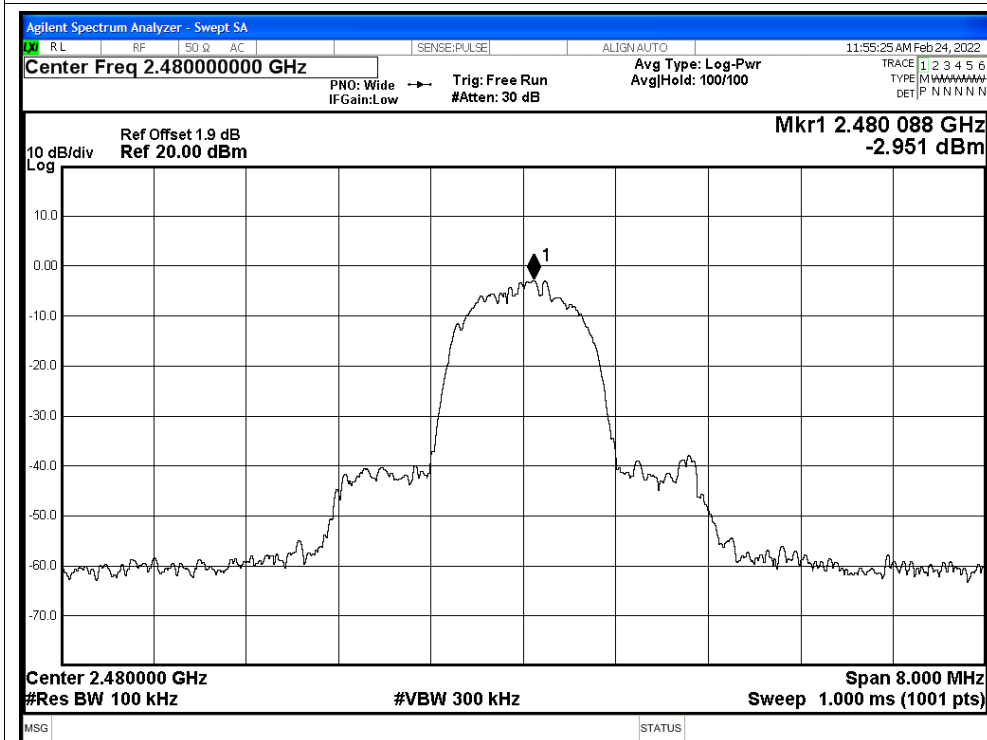


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

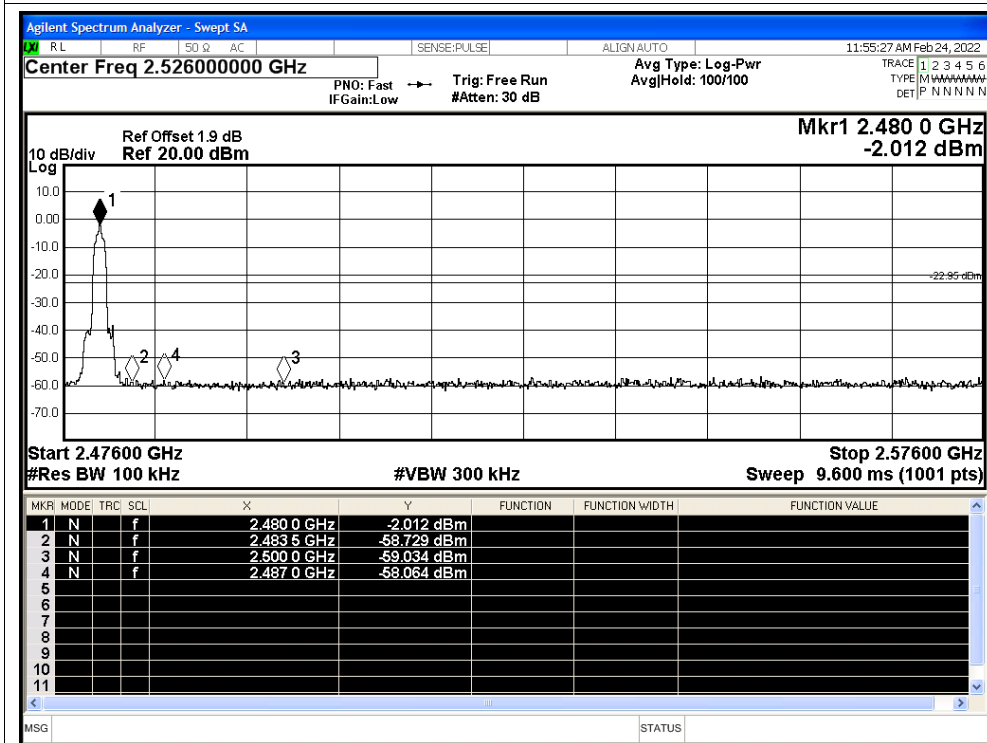




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



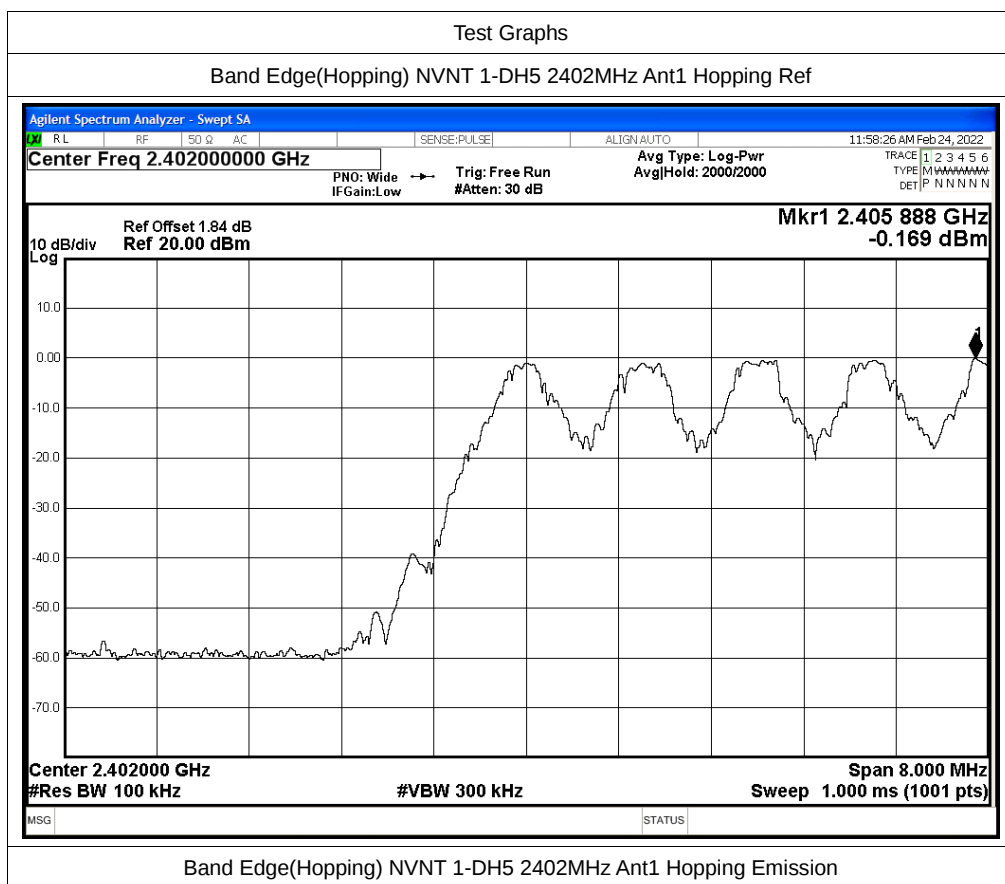
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

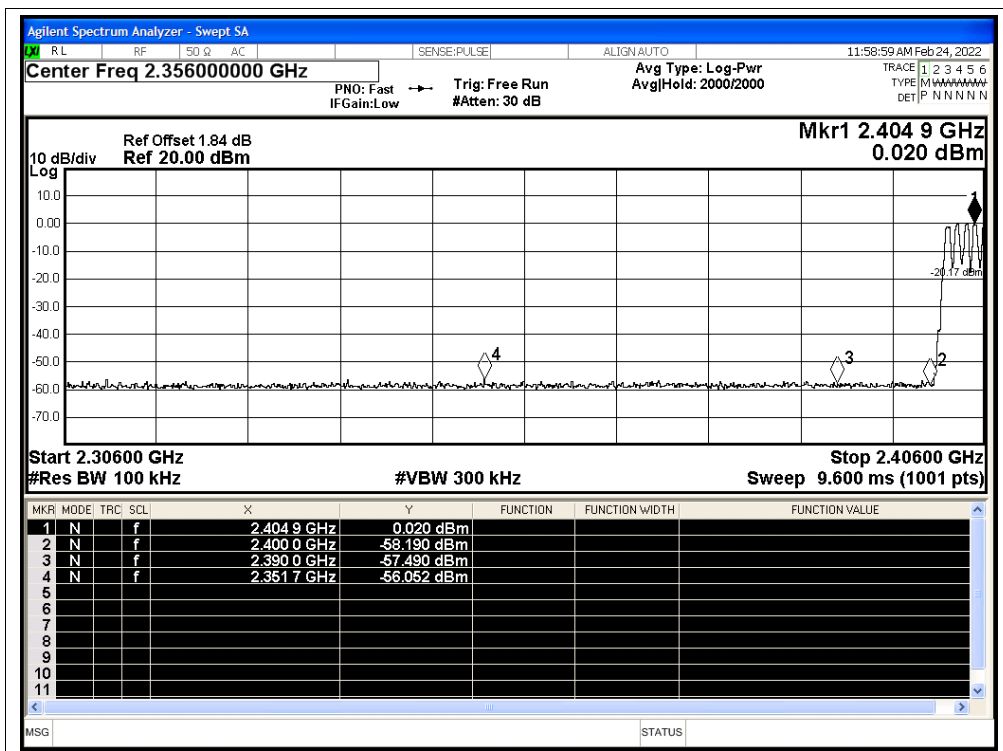




(Hopping)

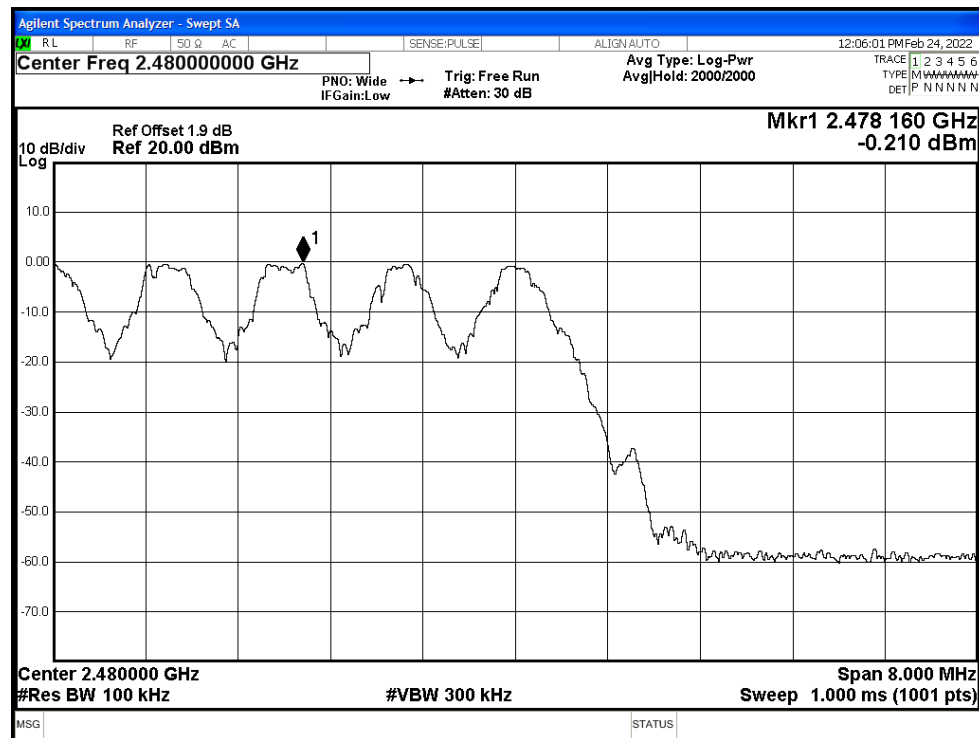
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.88	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.98	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.05	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.88	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.49	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.78	-20	Pass



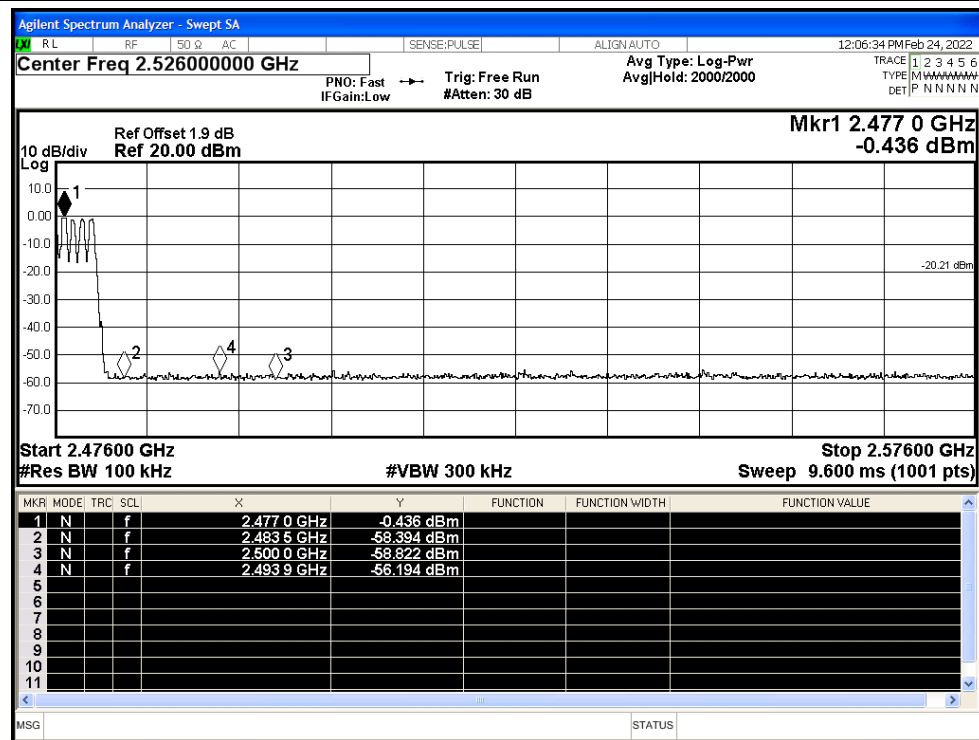




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

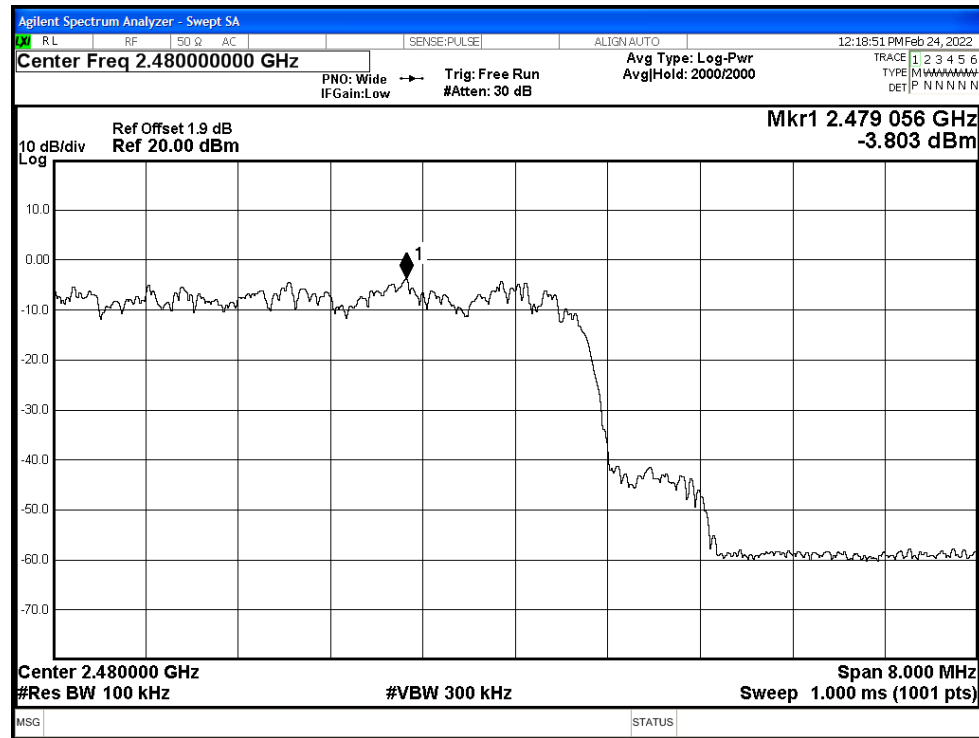


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

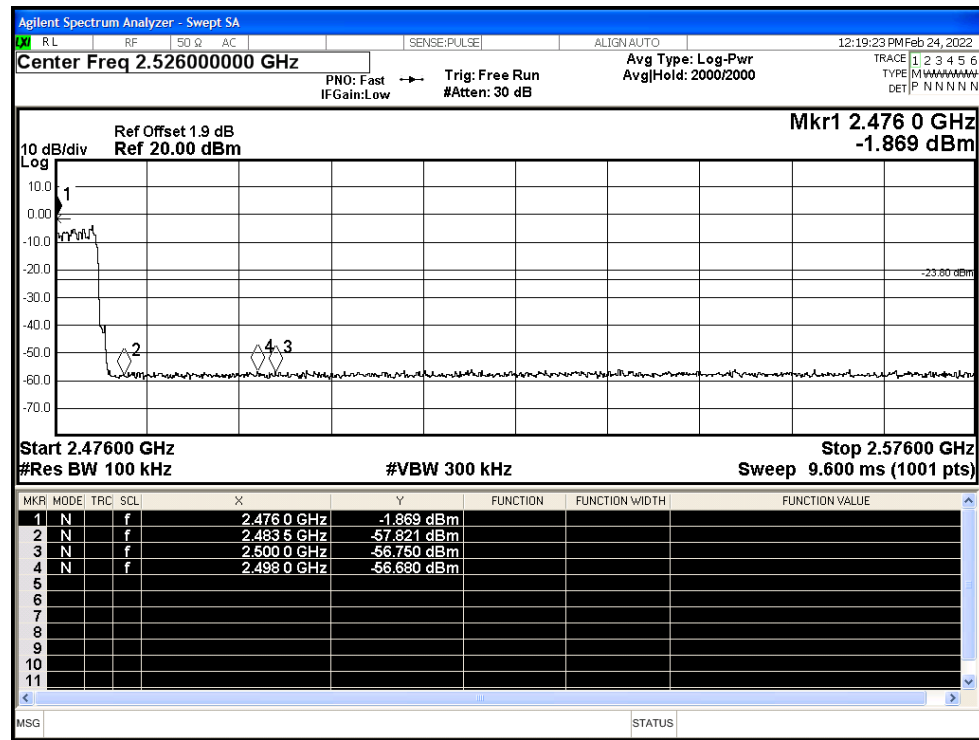




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

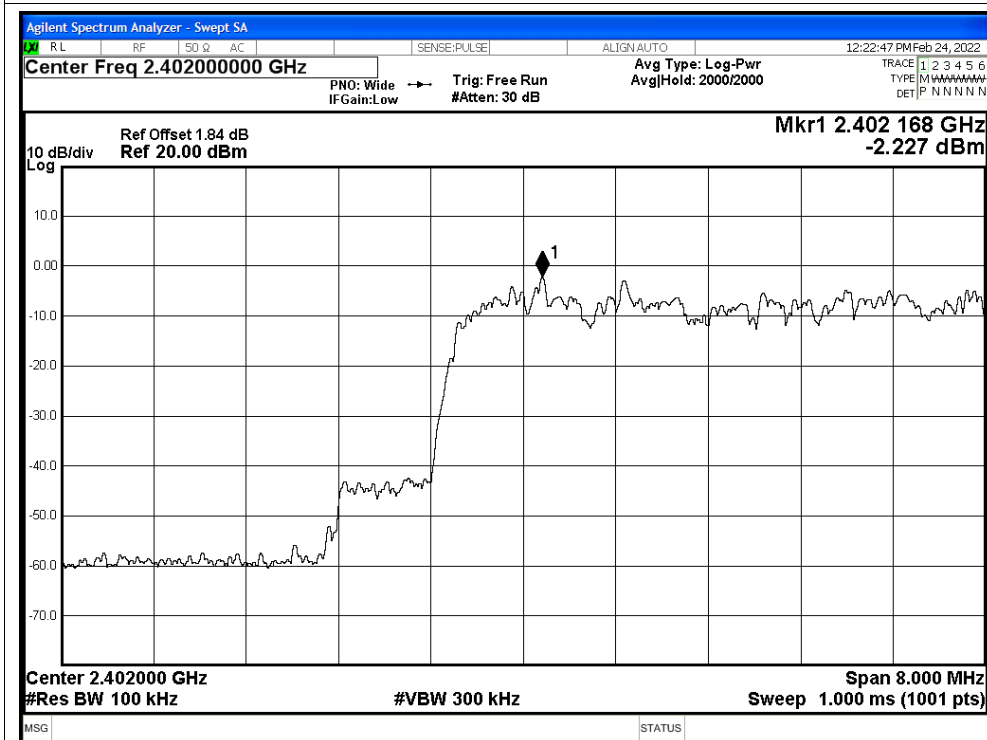


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

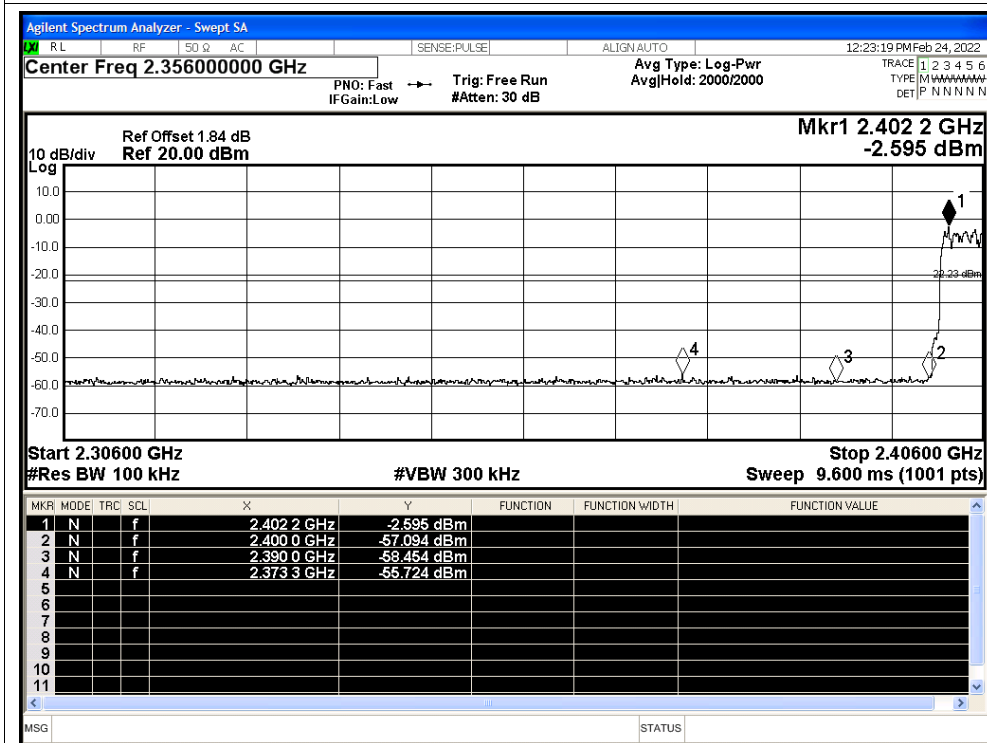


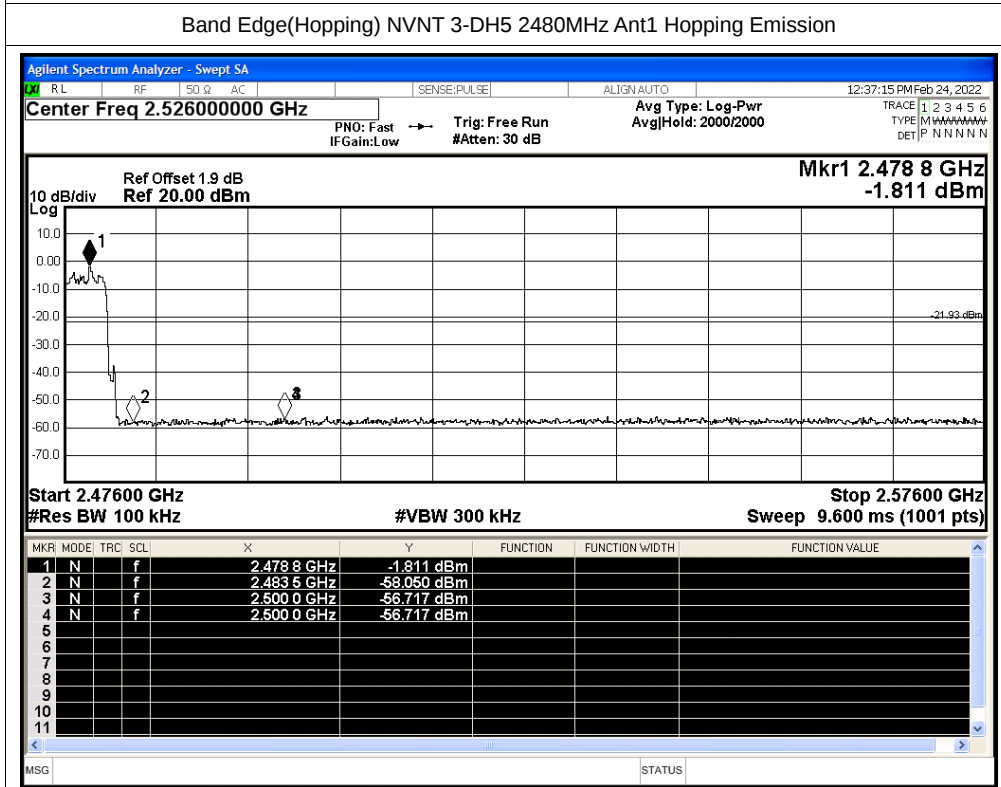


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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

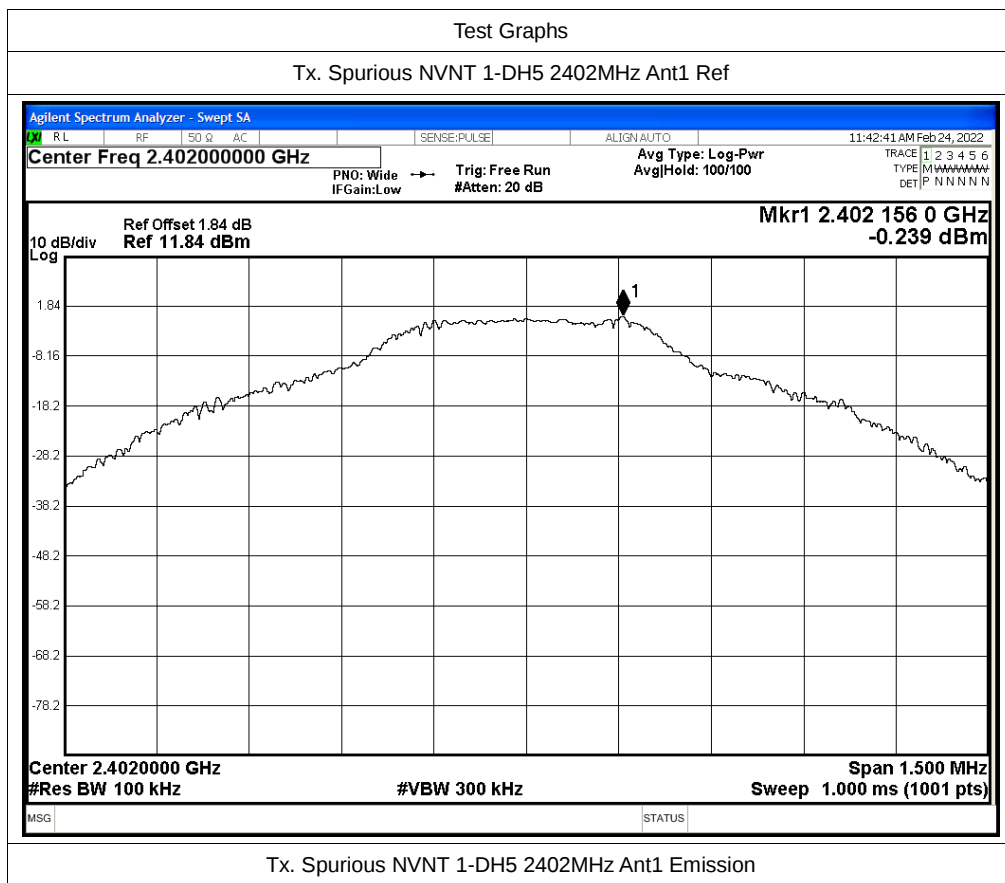


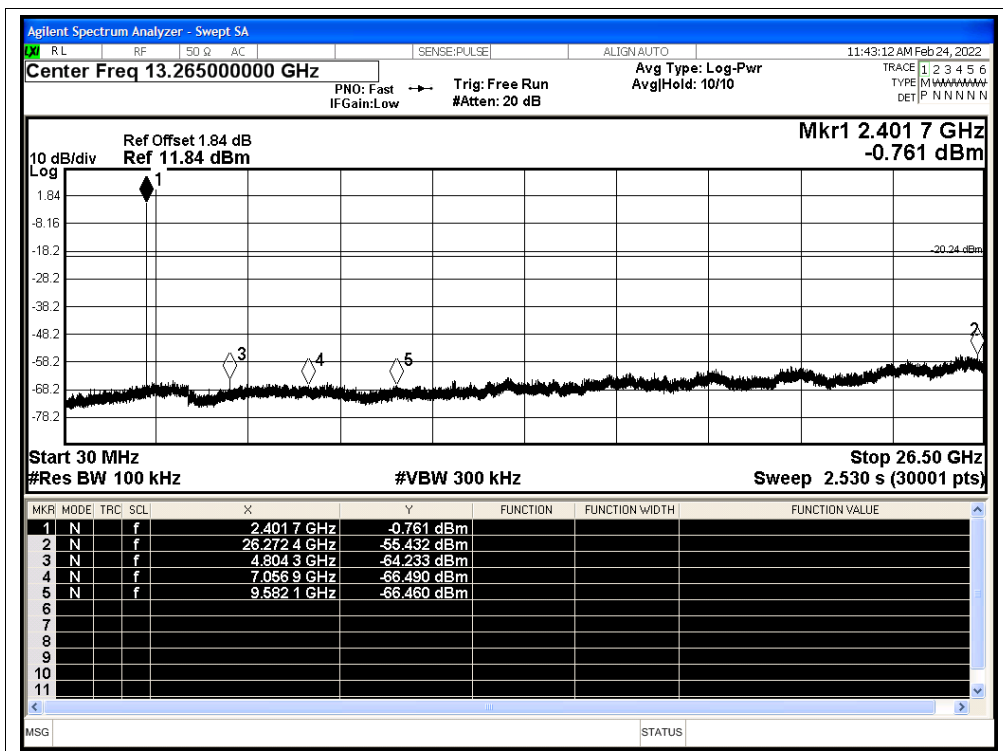


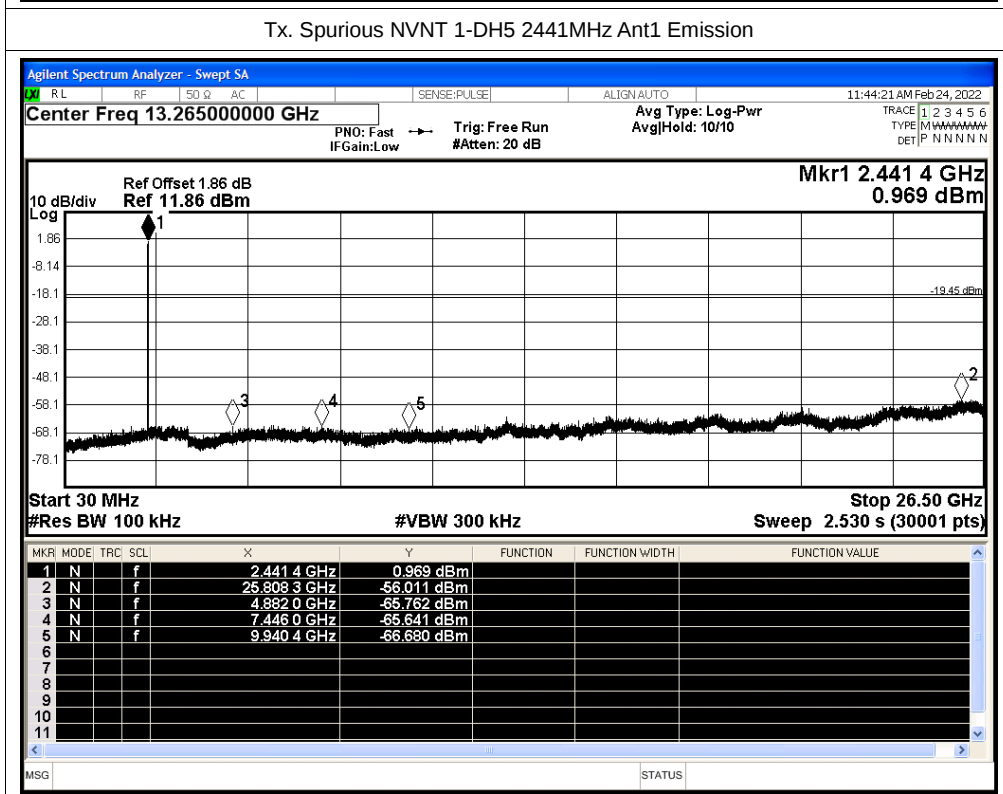


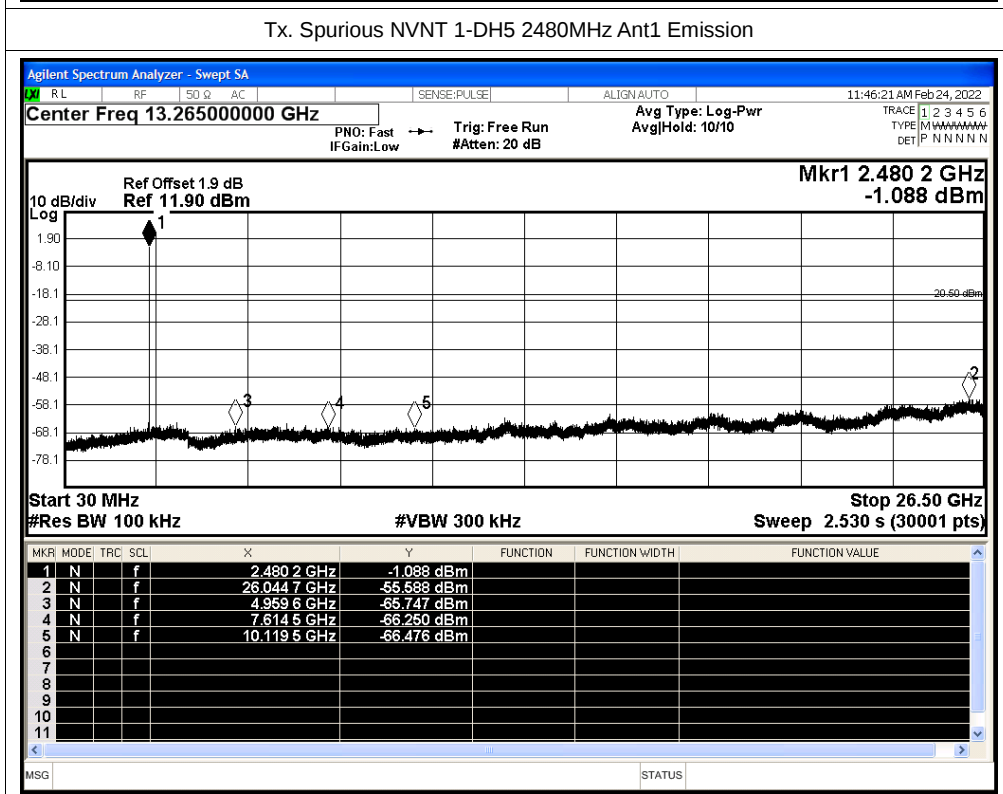
A.7 Conducted Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.19	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.56	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.08	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.55	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.37	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.12	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.97	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.69	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.58	-20	Pass



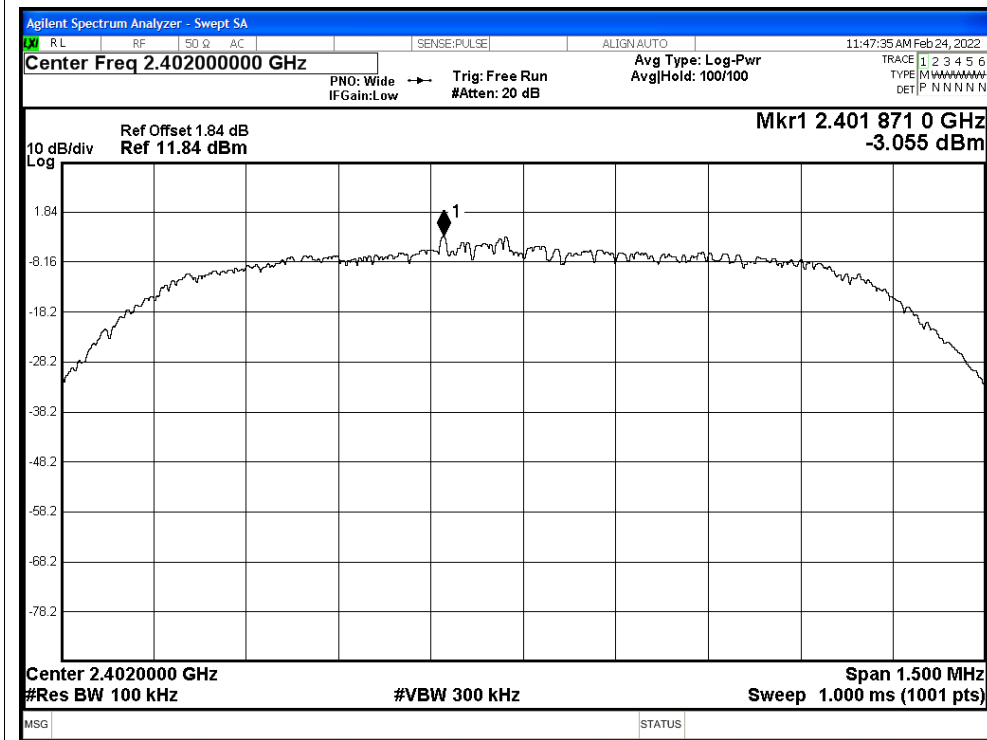




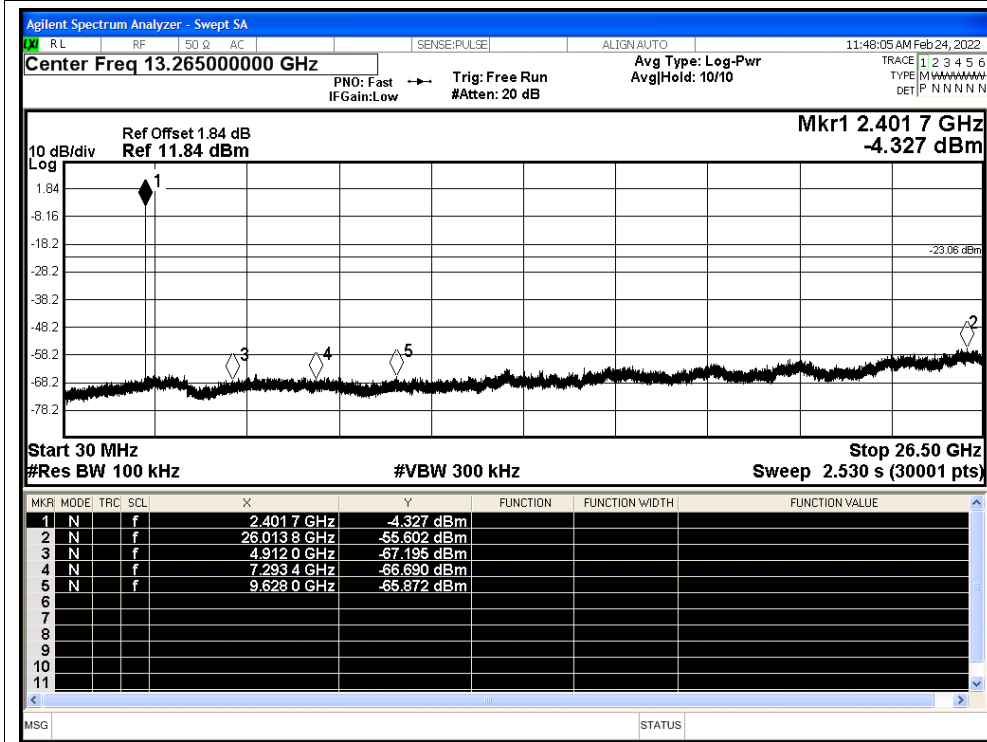


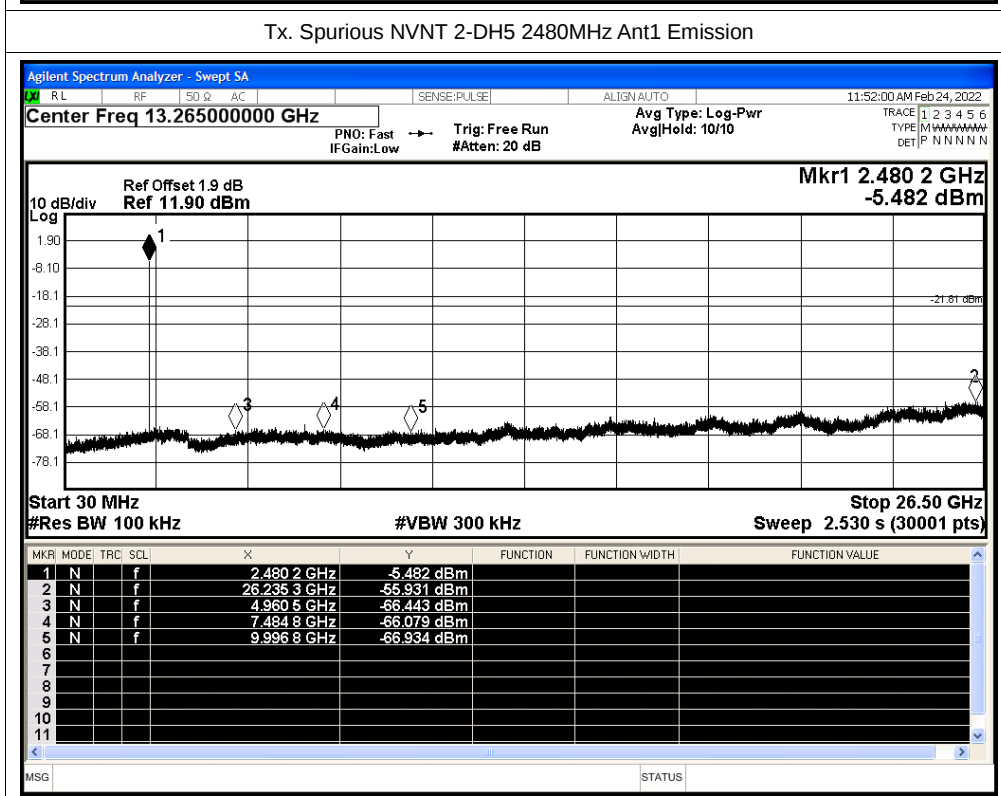


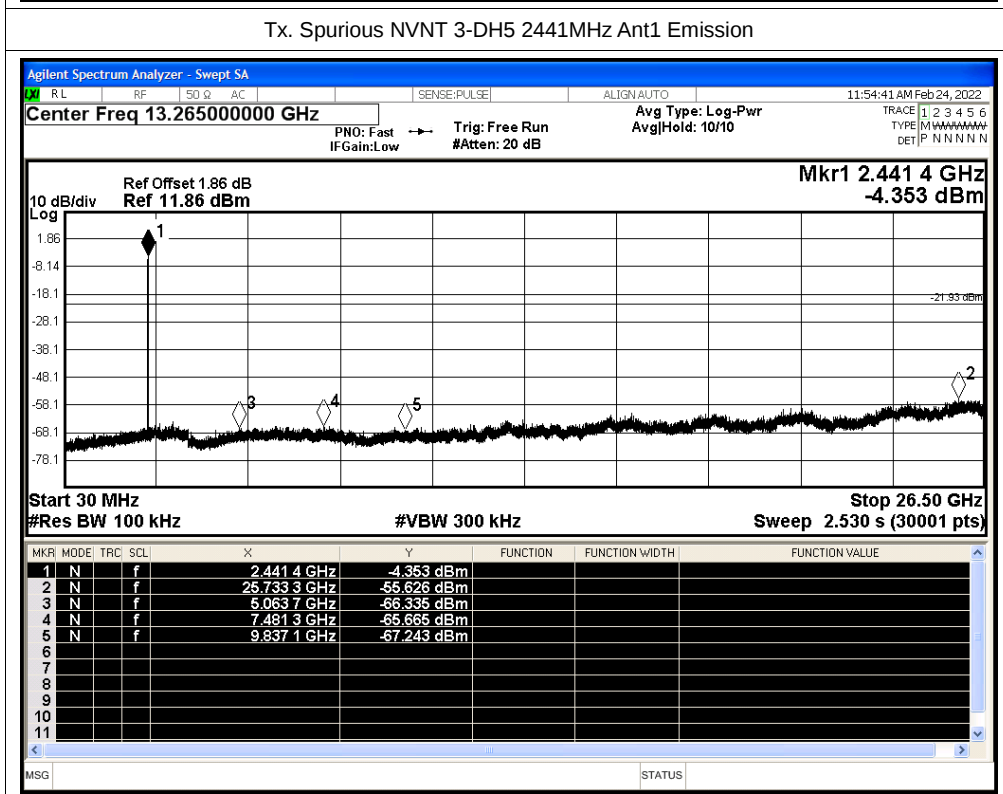
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

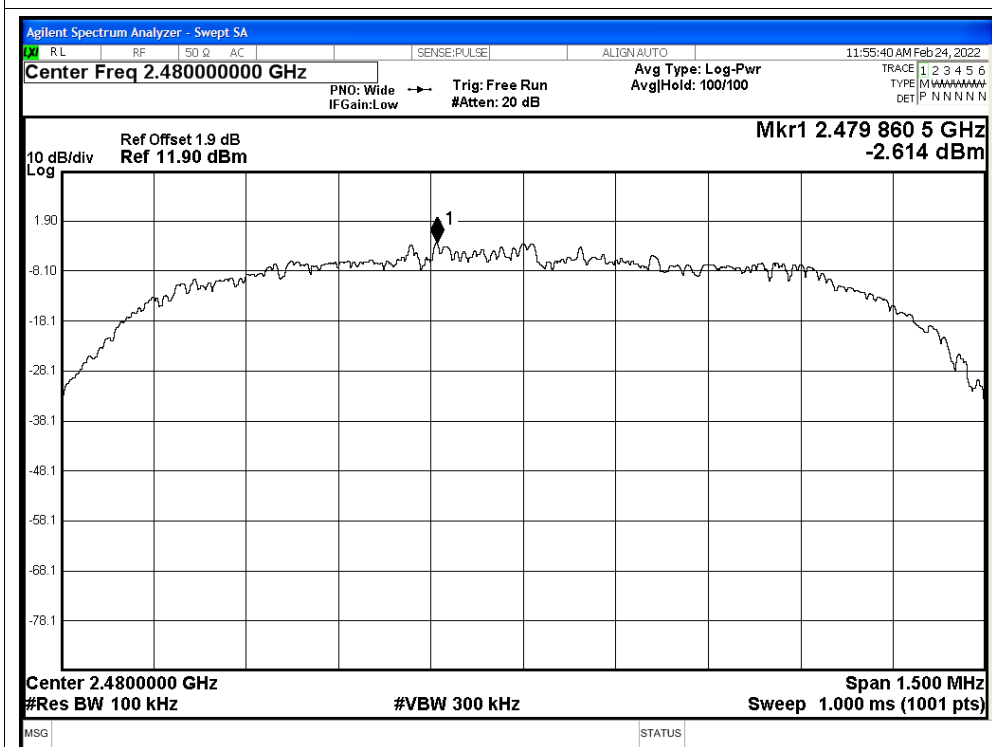




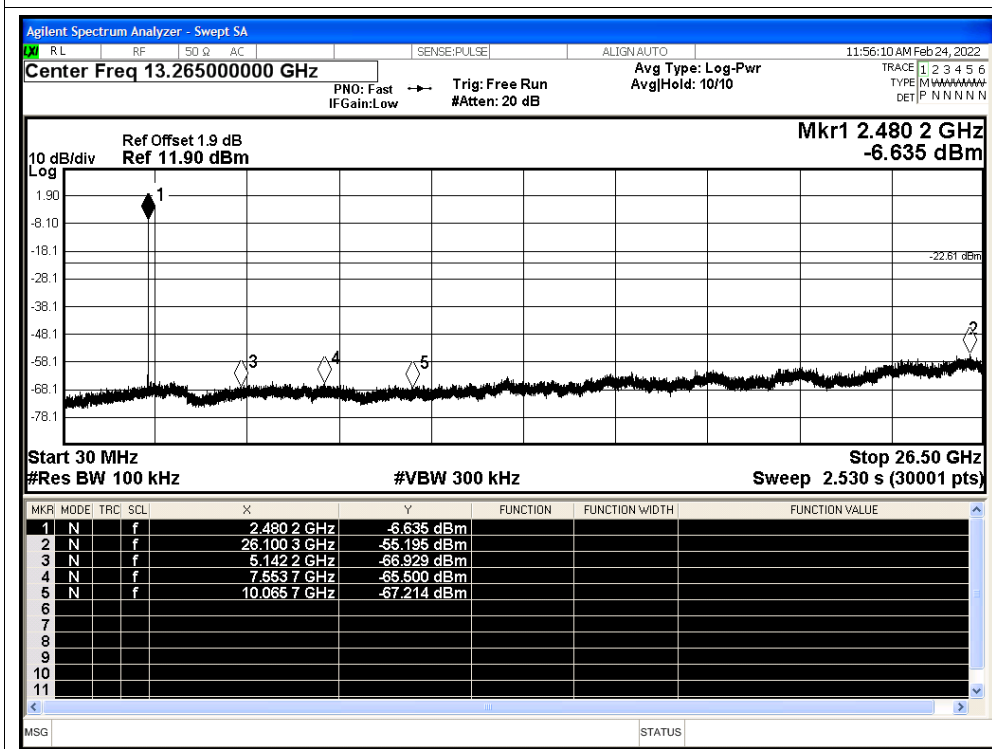




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Emissions in Restricted Bands

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	-50.35	2	46.91	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.68	2	36.58	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.408	-47.58	2	49.68	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.168	-60.13	2	37.13	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.65	2	45.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.47	2	36.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.43	2	46.83	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.82	2	37.44	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2487.184	-46.58	2	50.68	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.536	-59.74	2	37.52	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.77	2	47.49	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.09	2	37.17	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.02	2	46.24	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.58	2	36.68	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.048	-47.32	2	49.94	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.432	-60.22	2	37.04	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.34	2	46.92	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.26	2	37	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.51	2	48.75	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.83	2	37.43	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.216	-47.36	2	49.9	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.592	-59.71	2	37.55	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.06	2	48.2	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.01	2	37.25	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.45	2	45.81	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	2386.512	-47.8	2	49.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2382.288	-60.19	2	37.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.8	2	46.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.32	2	36.94	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.94	2	47.32	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.67	2	37.59	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488.72	-47.45	2	49.81	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.656	-59.6	2	37.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.52	2	47.74	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.98	2	37.28	Average	54	Pass

