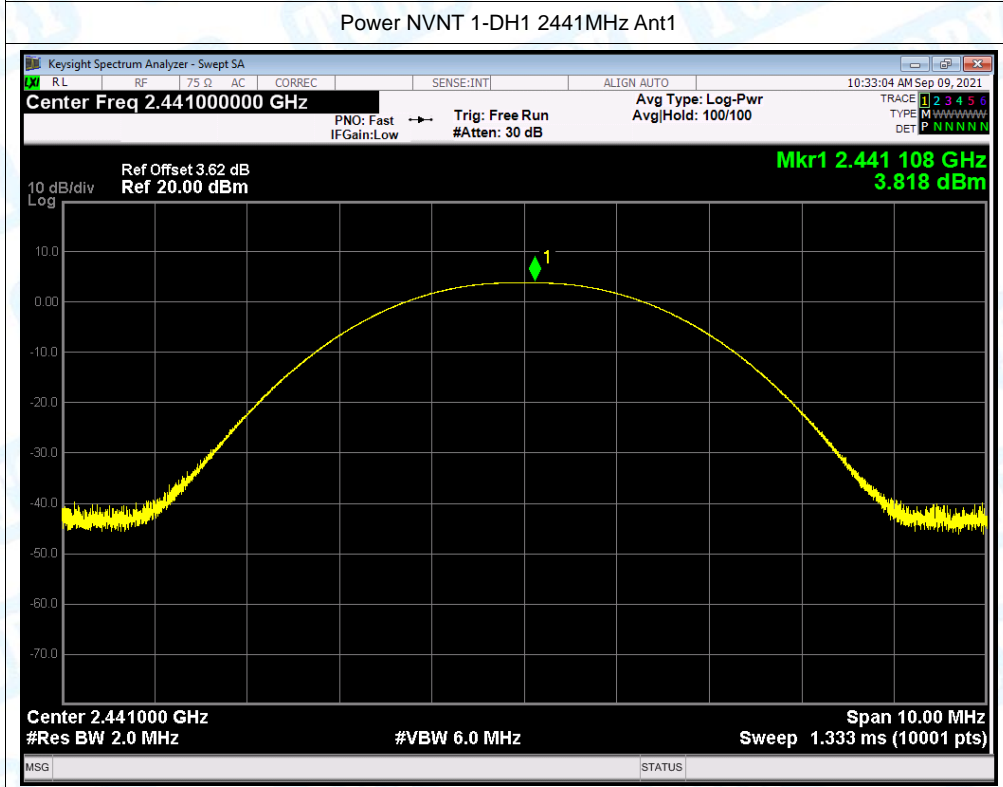
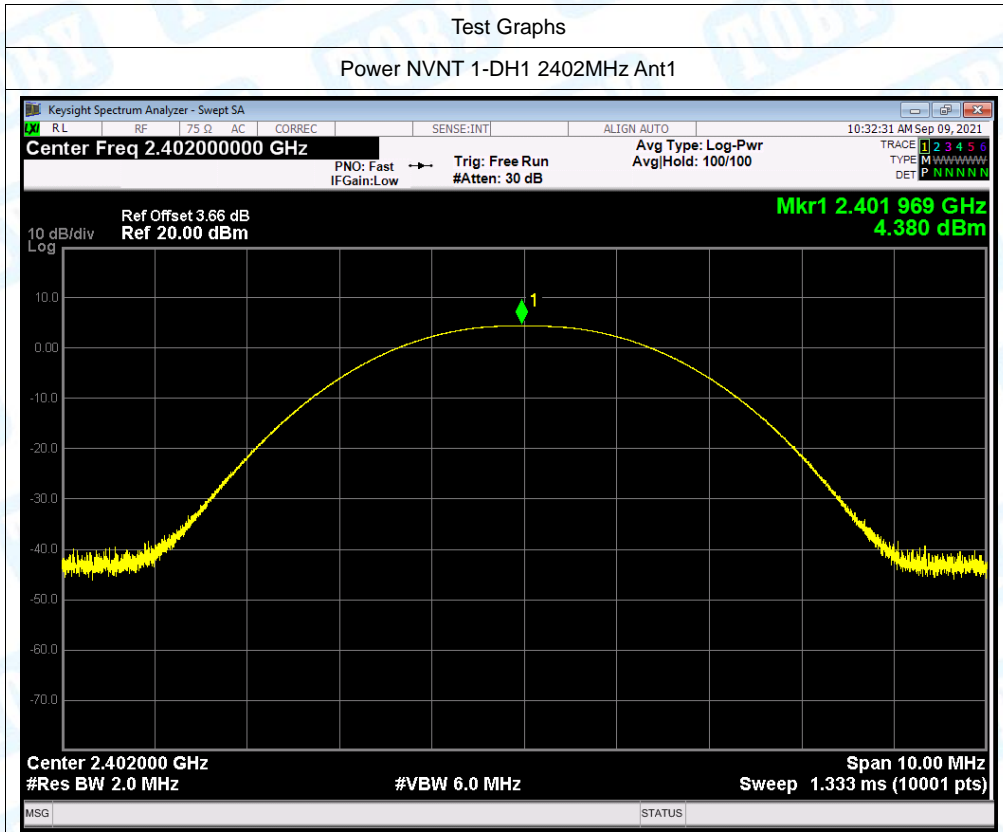


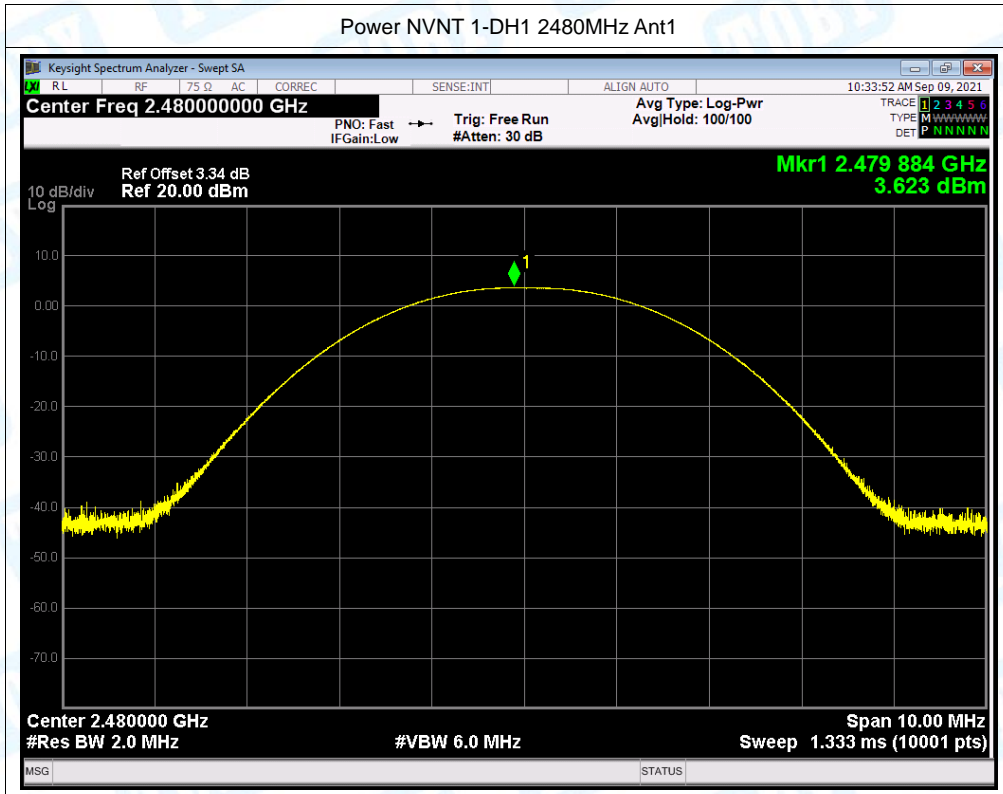
RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

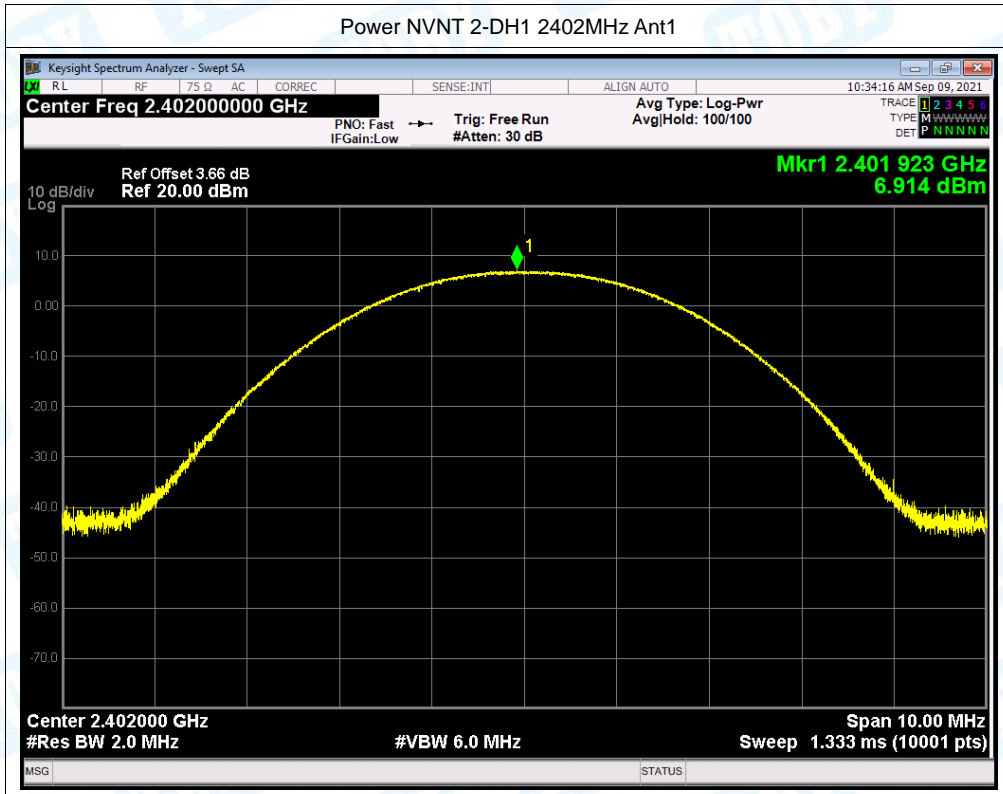
General Description of EUT	
Product Name:	True wireless bluetooth headset
Test Model:	SF-IE0
Sample ID:	20210615-23-2#
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	52%
Test Voltage:	DC3.7V
Test Engineer:	Hejingchang
Note: For a more detailed features description, please refer to the report TB-FCC182728	

1. Maximum Conducted Output Power

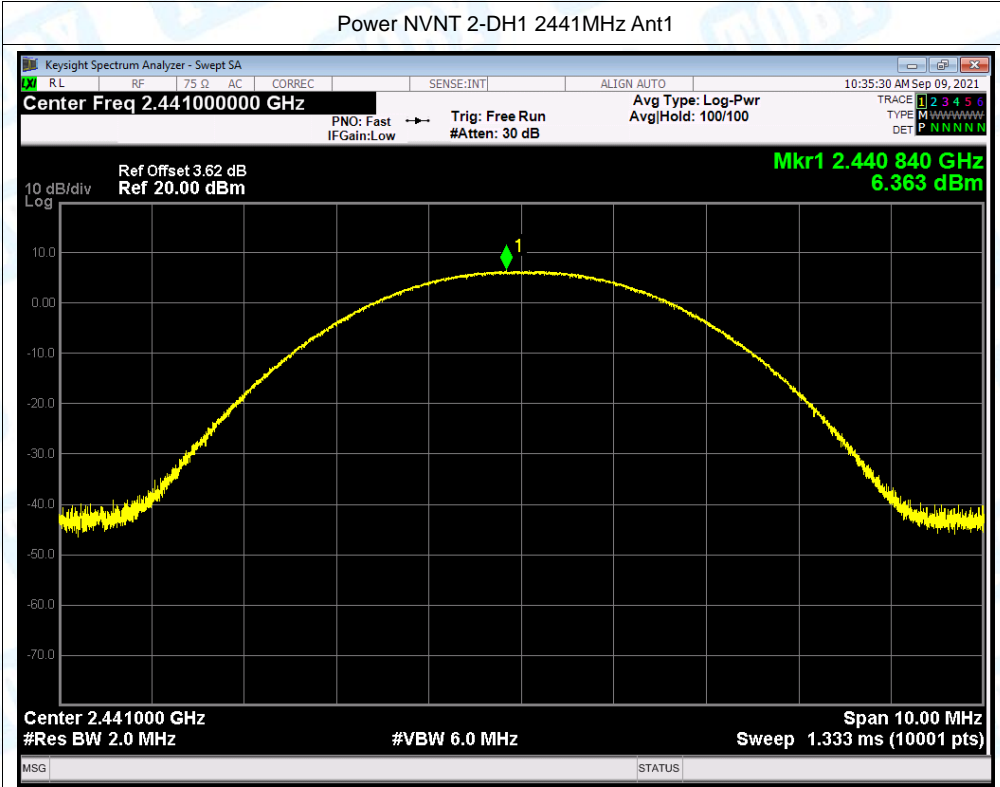
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	4.38	4.380	21	Pass
NVNT	1-DH1	2441	Ant1	3.818	3.818	21	Pass
NVNT	1-DH1	2480	Ant1	3.623	3.623	21	Pass
NVNT	2-DH1	2402	Ant1	6.914	6.914	21	Pass
NVNT	2-DH1	2441	Ant1	6.363	6.363	21	Pass
NVNT	2-DH1	2480	Ant1	5.973	5.973	21	Pass
NVNT	3-DH1	2402	Ant1	7.478	7.478	21	Pass
NVNT	3-DH1	2441	Ant1	6.818	6.818	21	Pass
NVNT	3-DH1	2480	Ant1	6.514	6.514	21	Pass



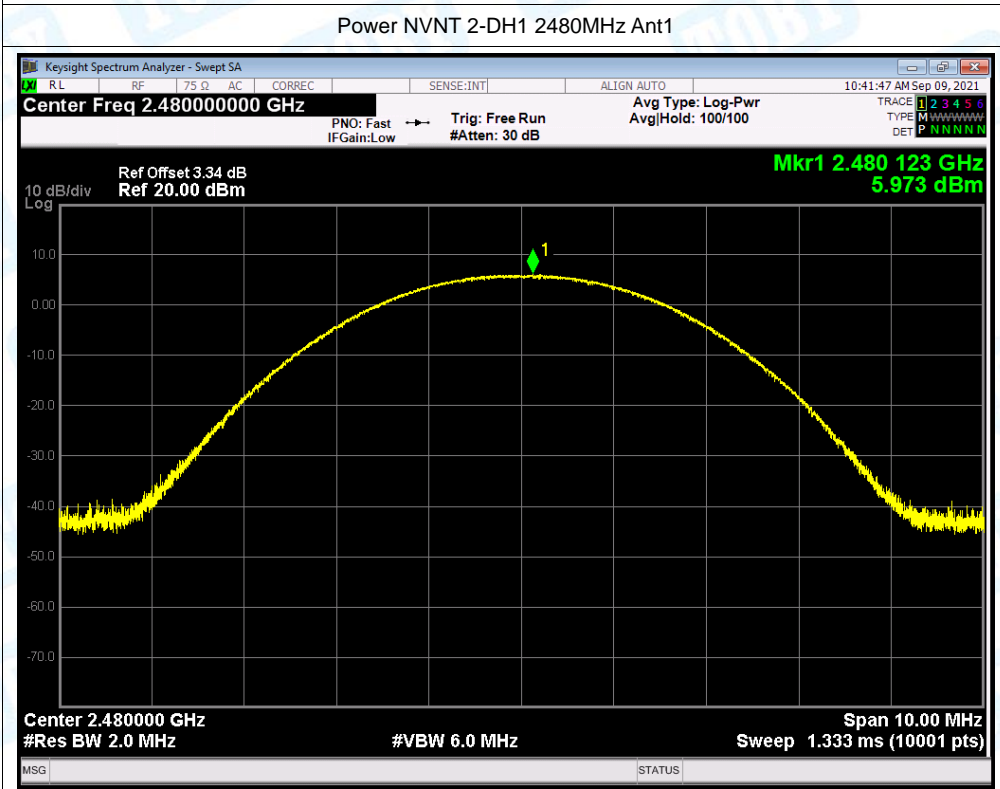




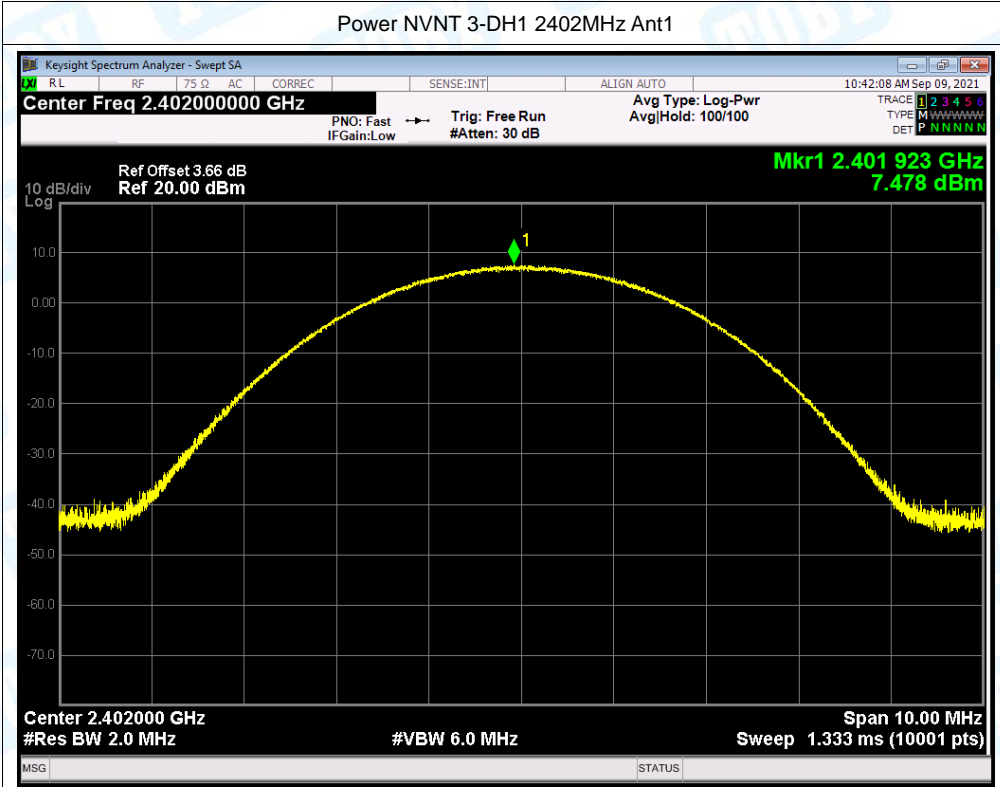
Power NVNT 2-DH1 2441MHz Ant1



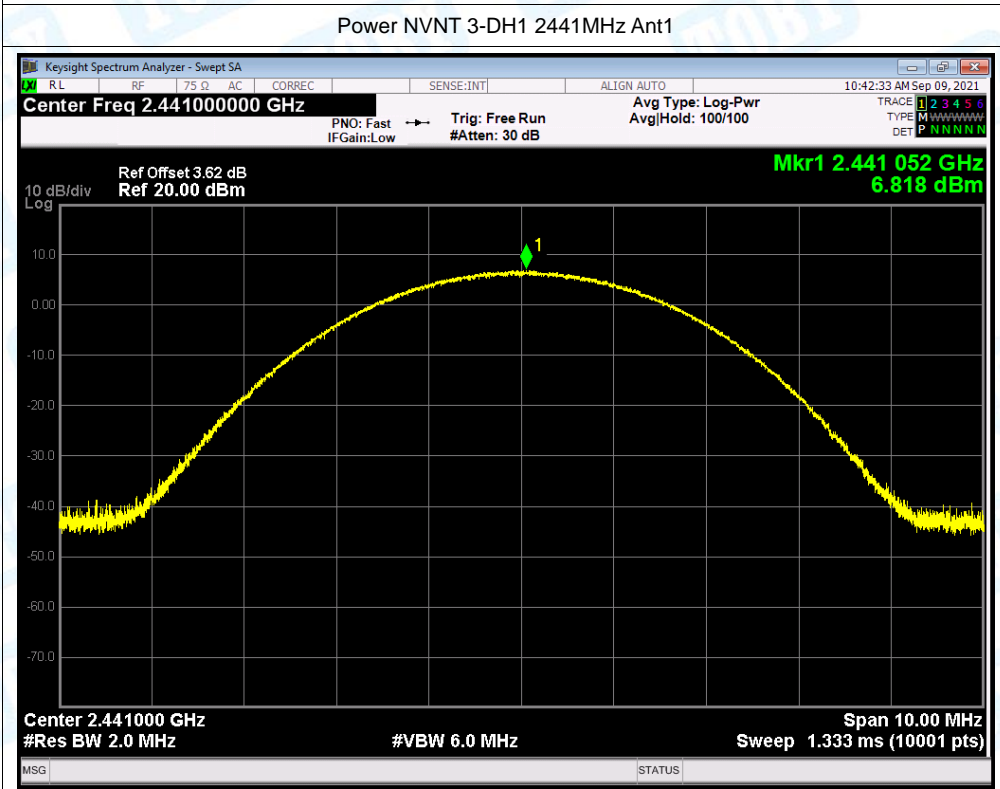
Power NVNT 2-DH1 2480MHz Ant1

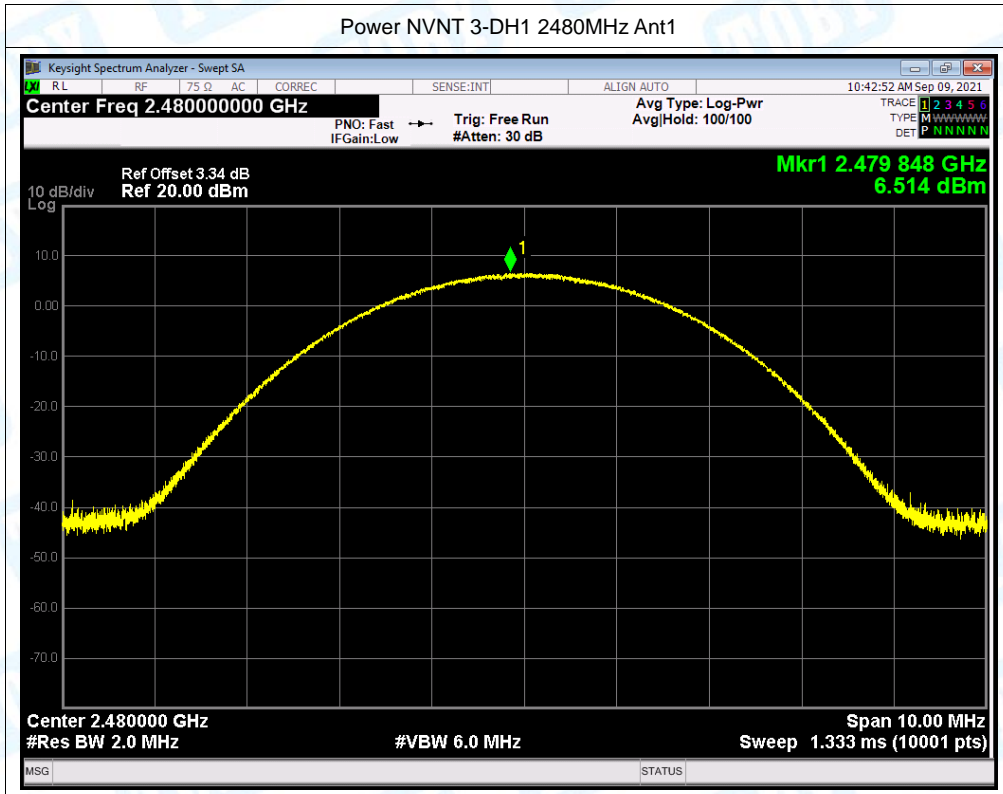


Power NVNT 3-DH1 2402MHz Ant1



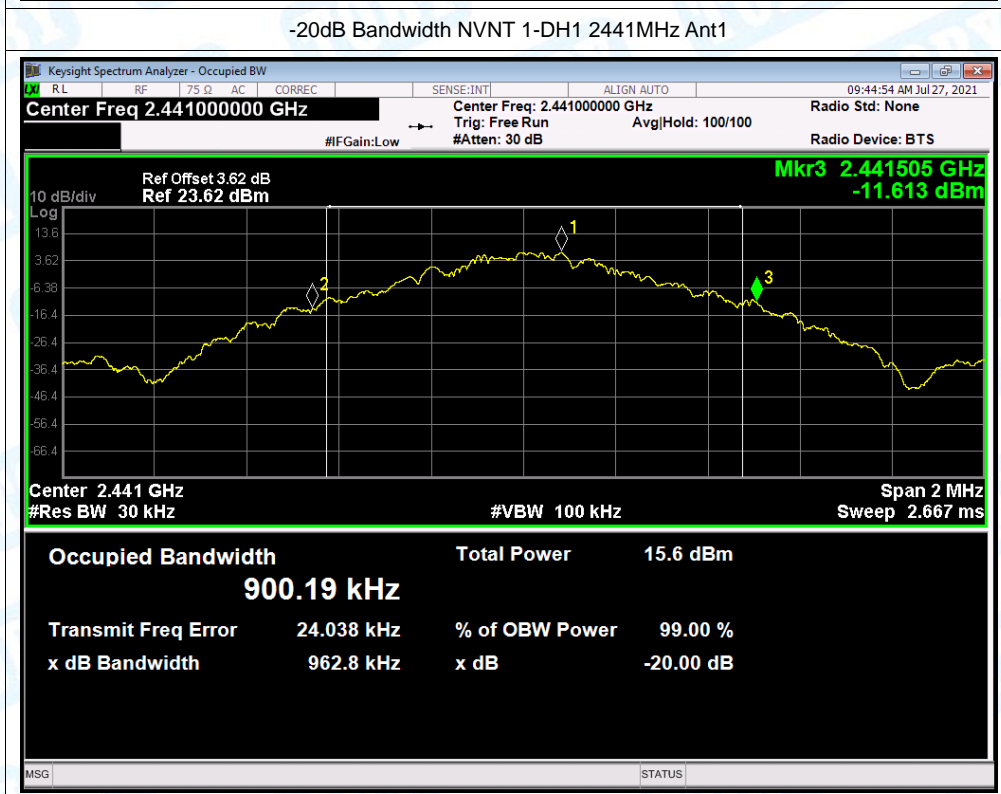
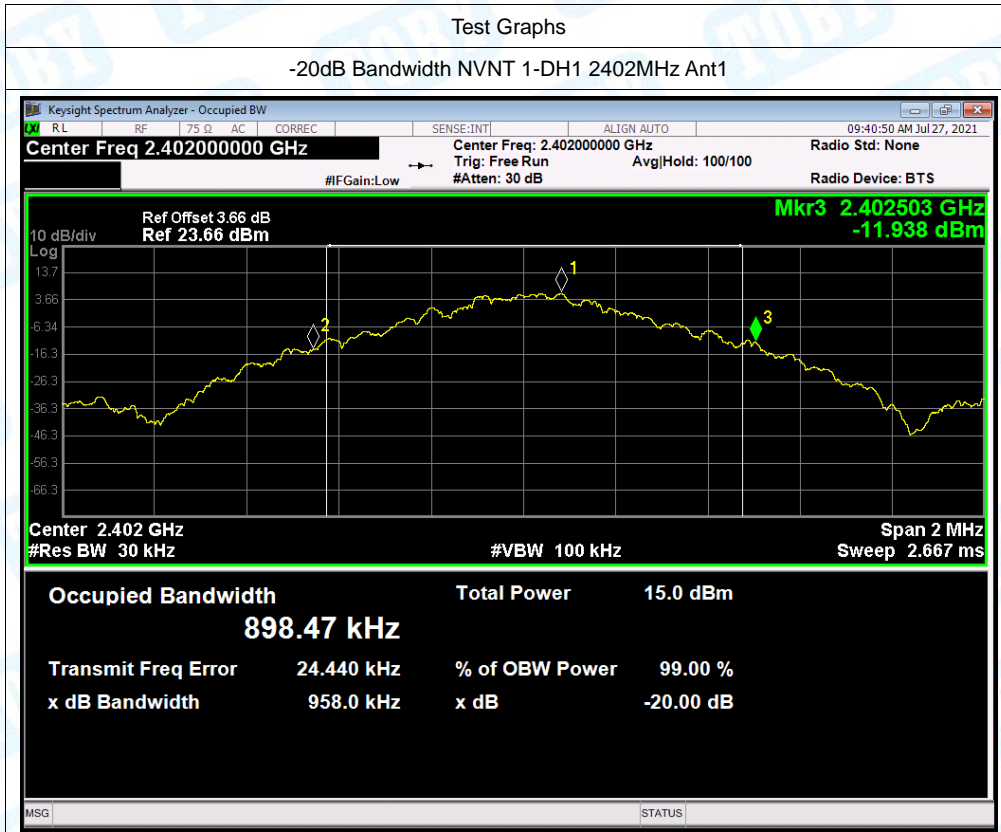
Power NVNT 3-DH1 2441MHz Ant1



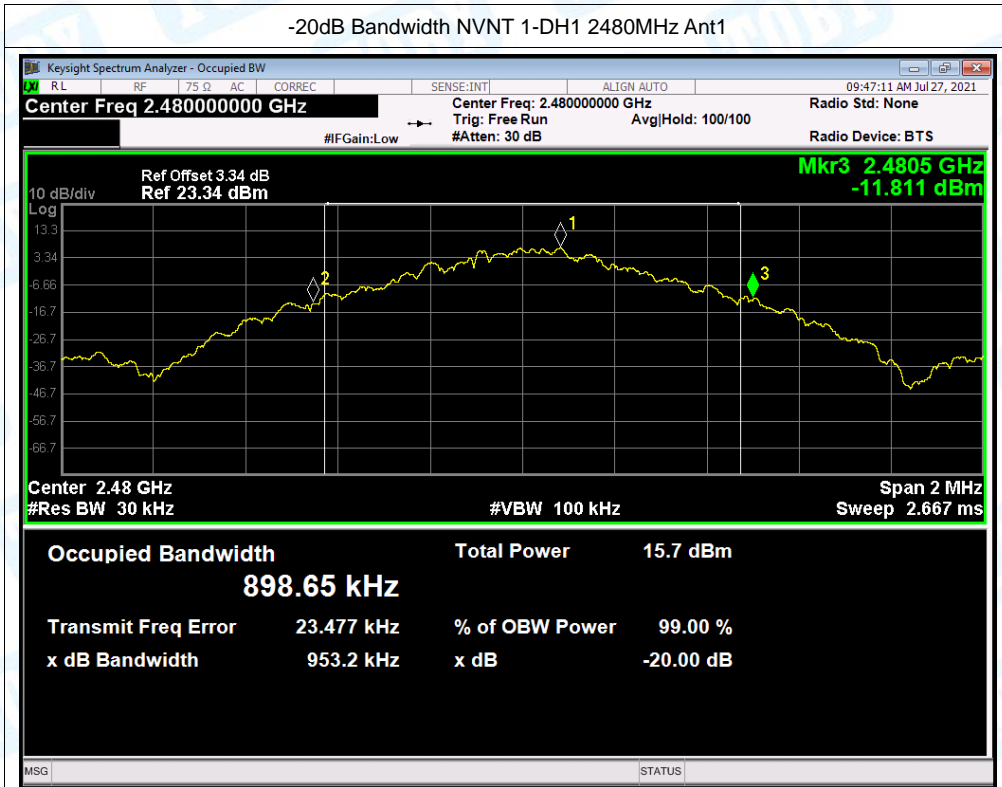


2.-20dB Bandwidth

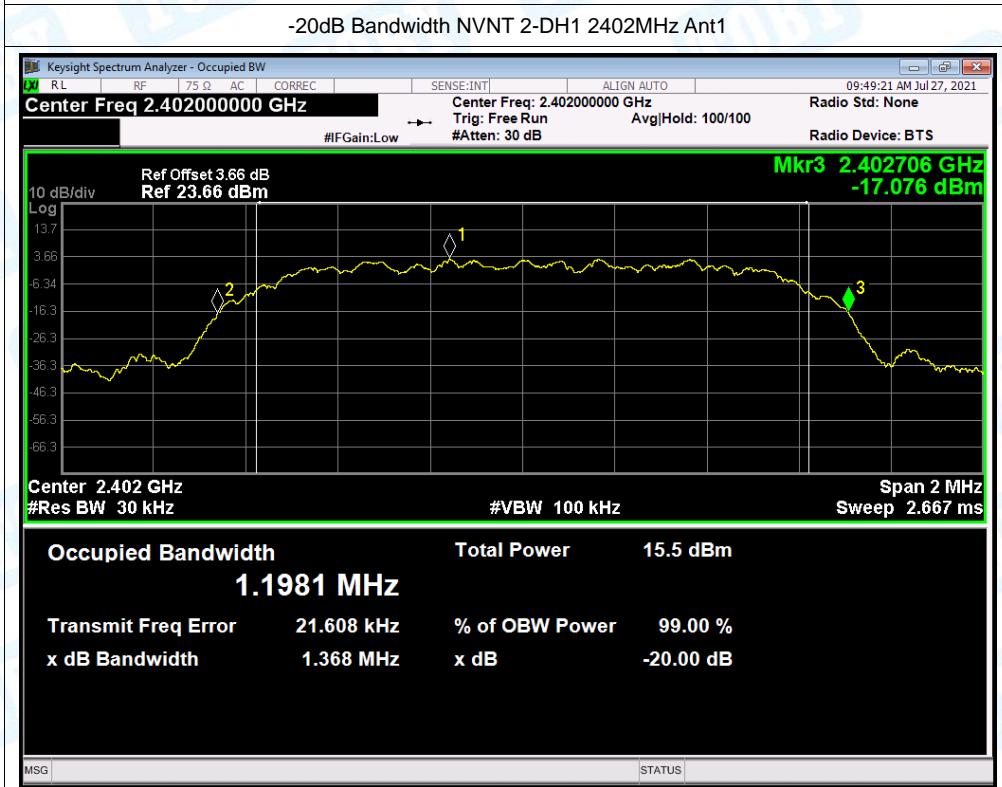
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	2/3 *20dB BW (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.958	0.639	Pass
NVNT	1-DH1	2441	Ant1	0.963	0.642	Pass
NVNT	1-DH1	2480	Ant1	0.953	0.635	Pass
NVNT	2-DH1	2402	Ant1	1.368	0.912	Pass
NVNT	2-DH1	2441	Ant1	1.363	0.909	Pass
NVNT	2-DH1	2480	Ant1	1.369	0.913	Pass
NVNT	3-DH1	2402	Ant1	1.348	0.899	Pass
NVNT	3-DH1	2441	Ant1	1.351	0.901	Pass
NVNT	3-DH1	2480	Ant1	1.355	0.903	Pass



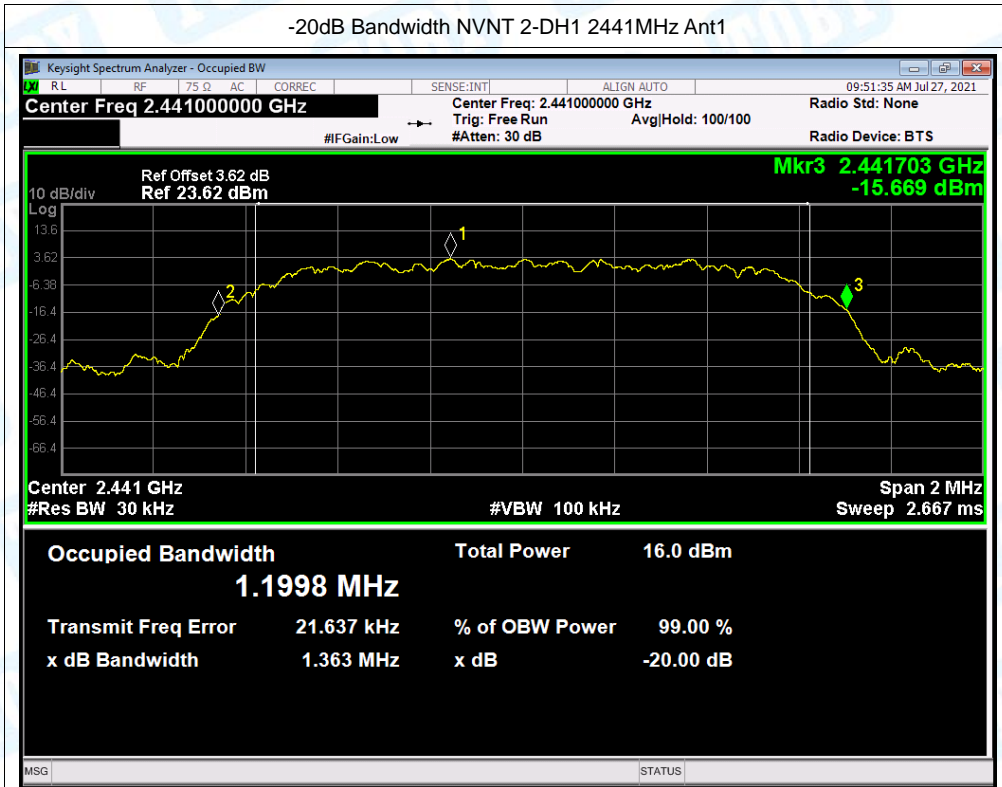
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



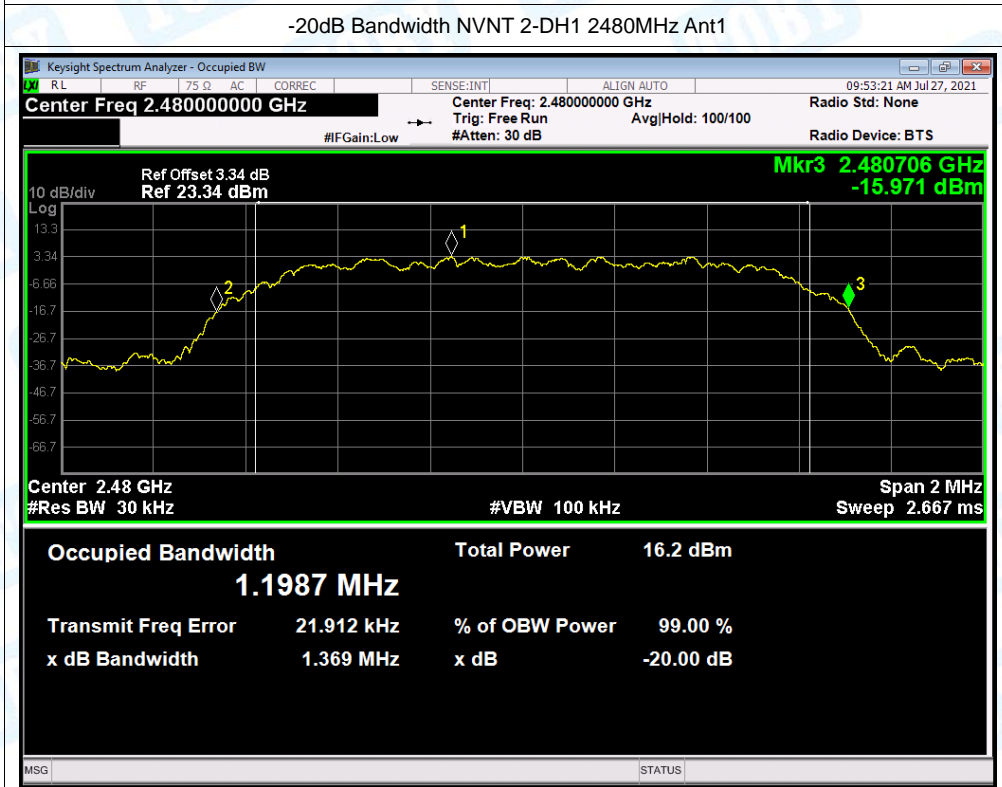
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



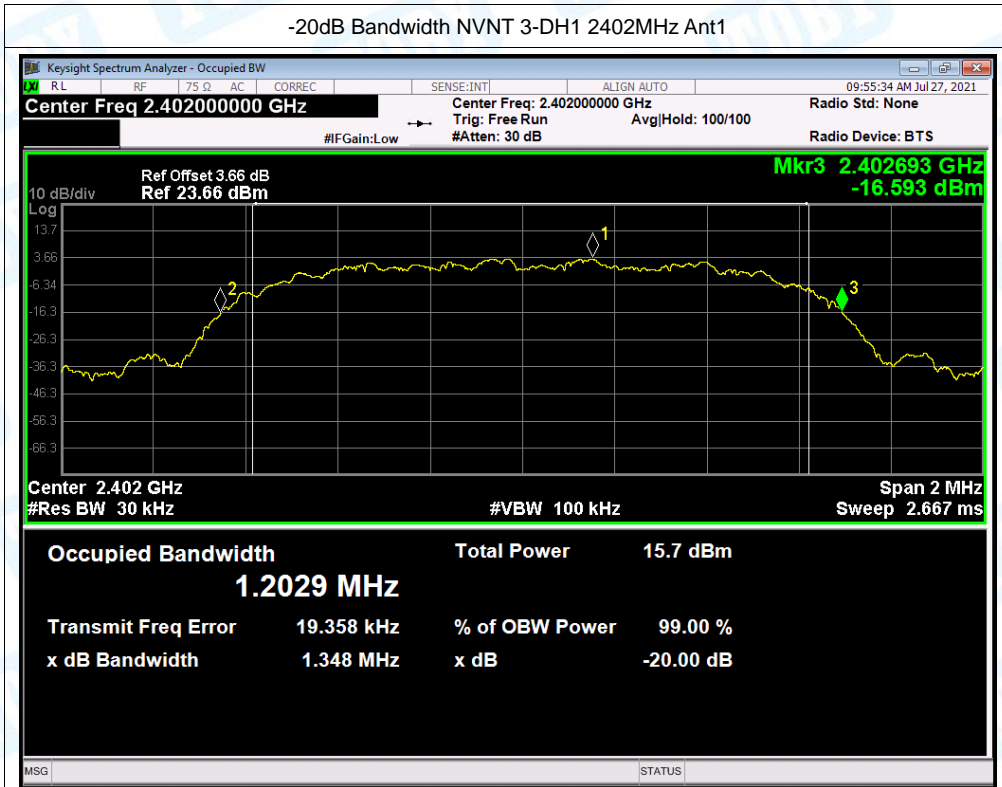
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



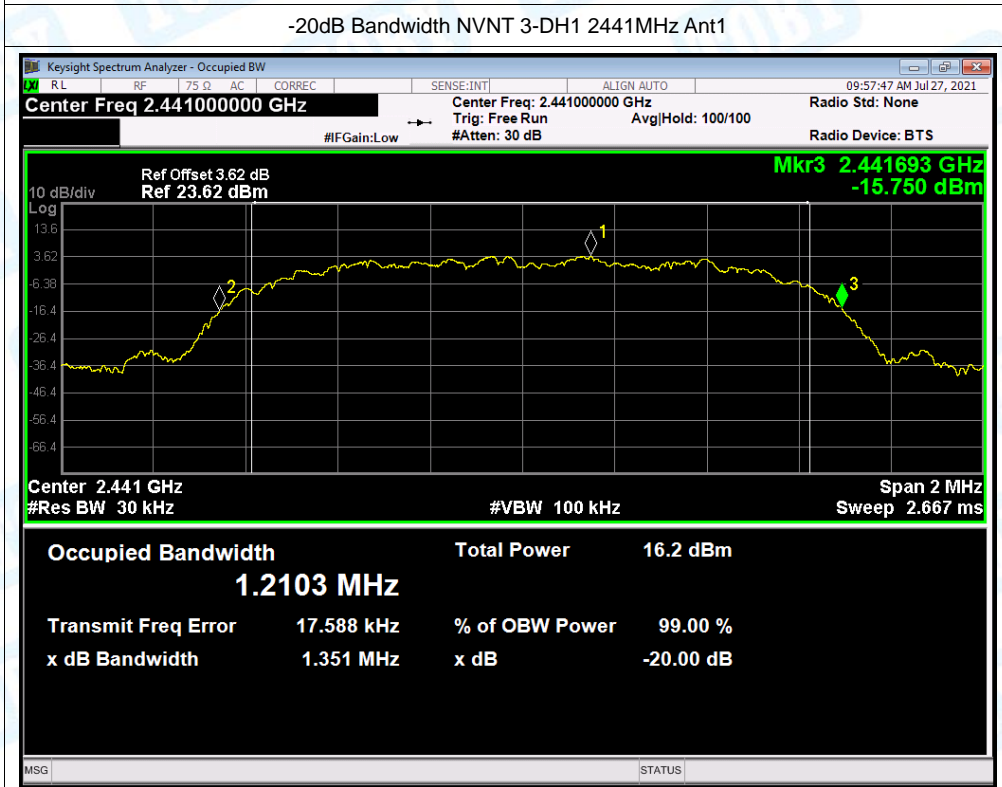
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

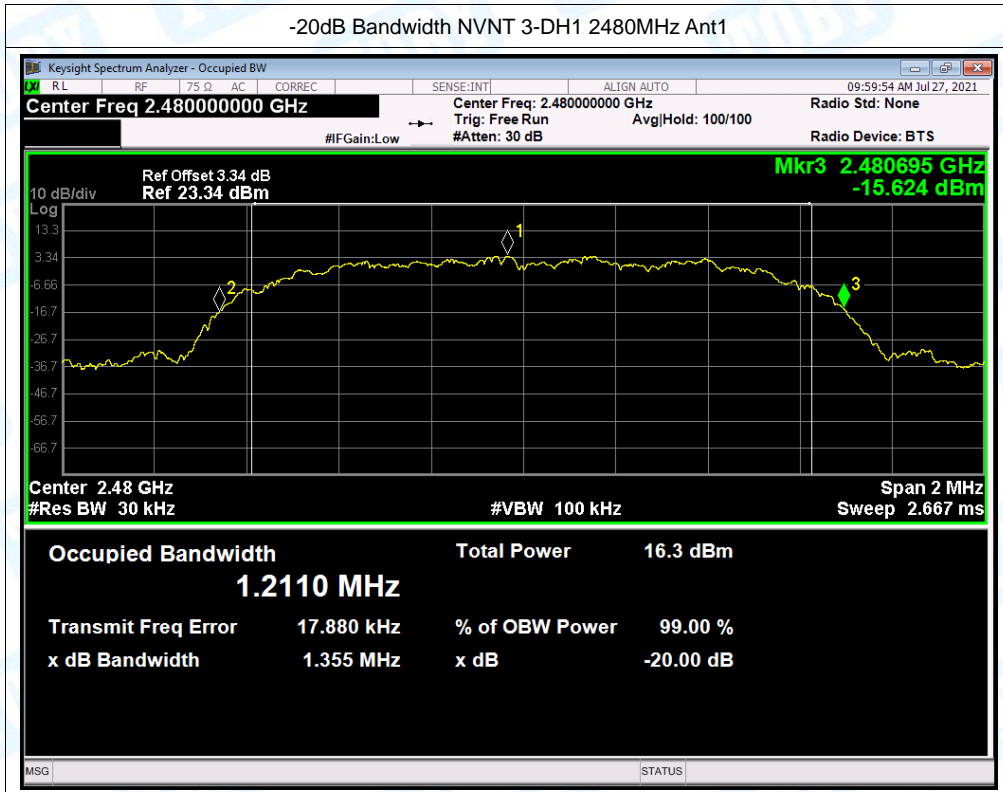


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



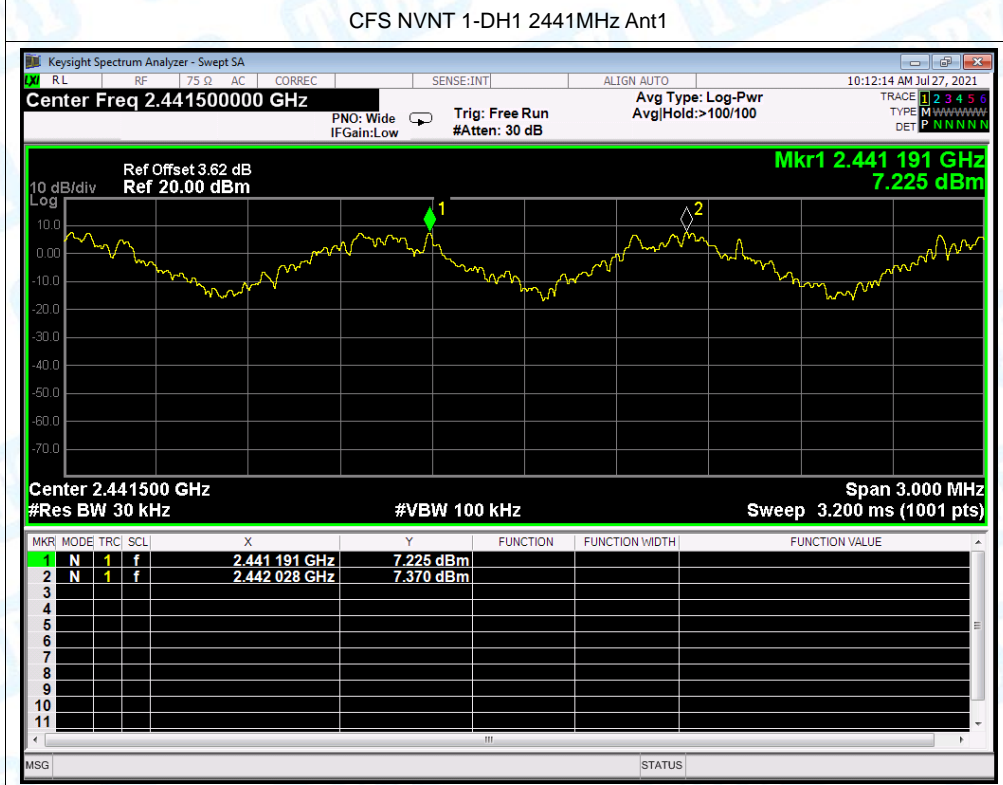
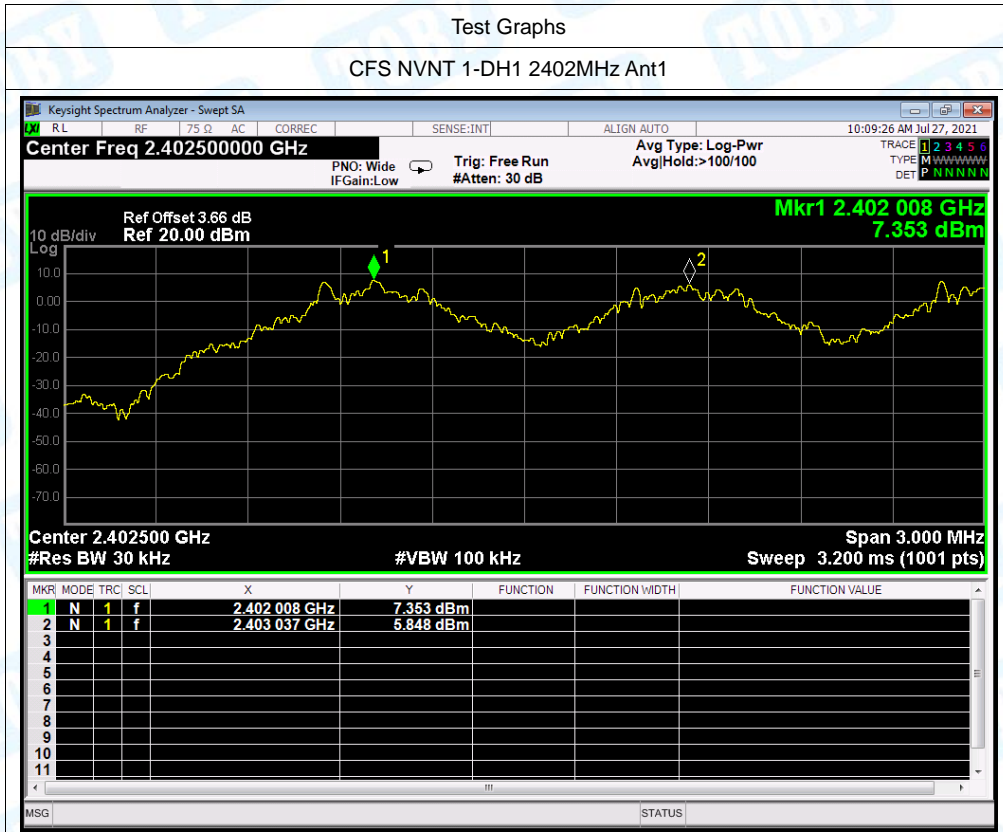
-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1

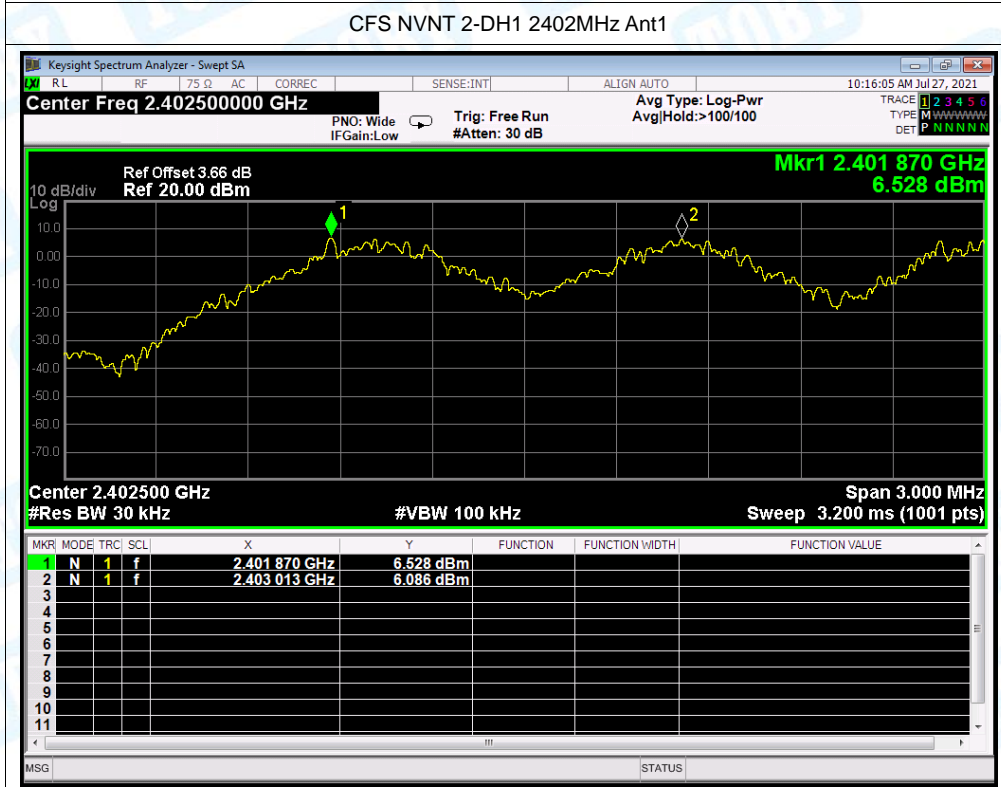
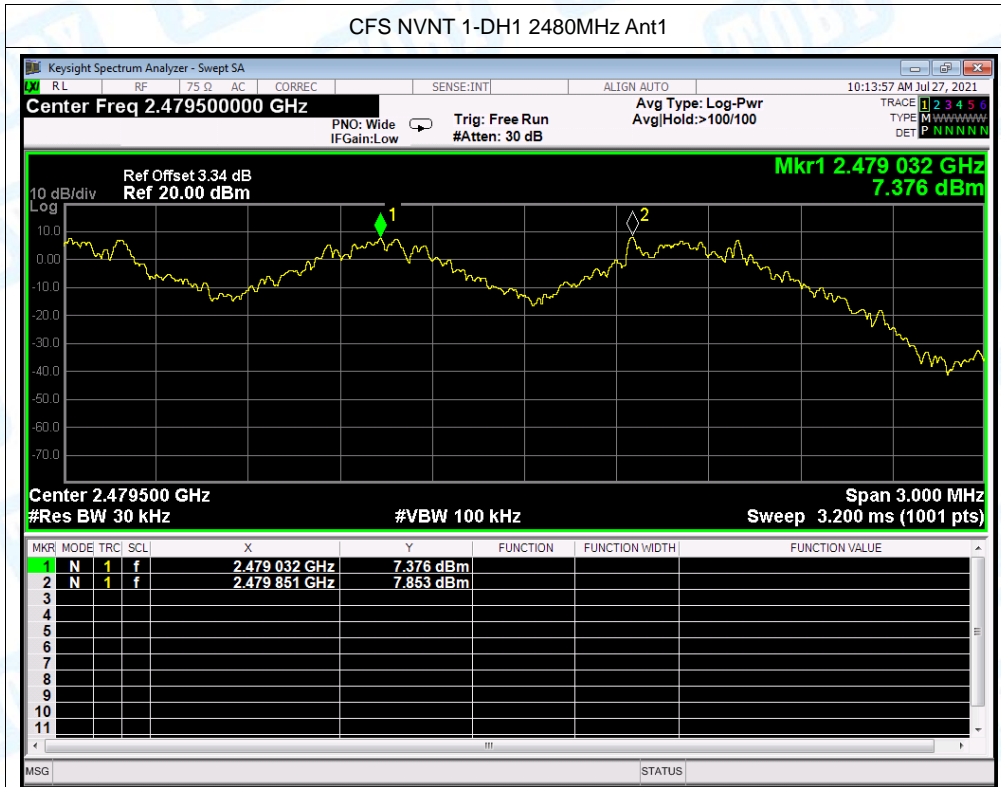


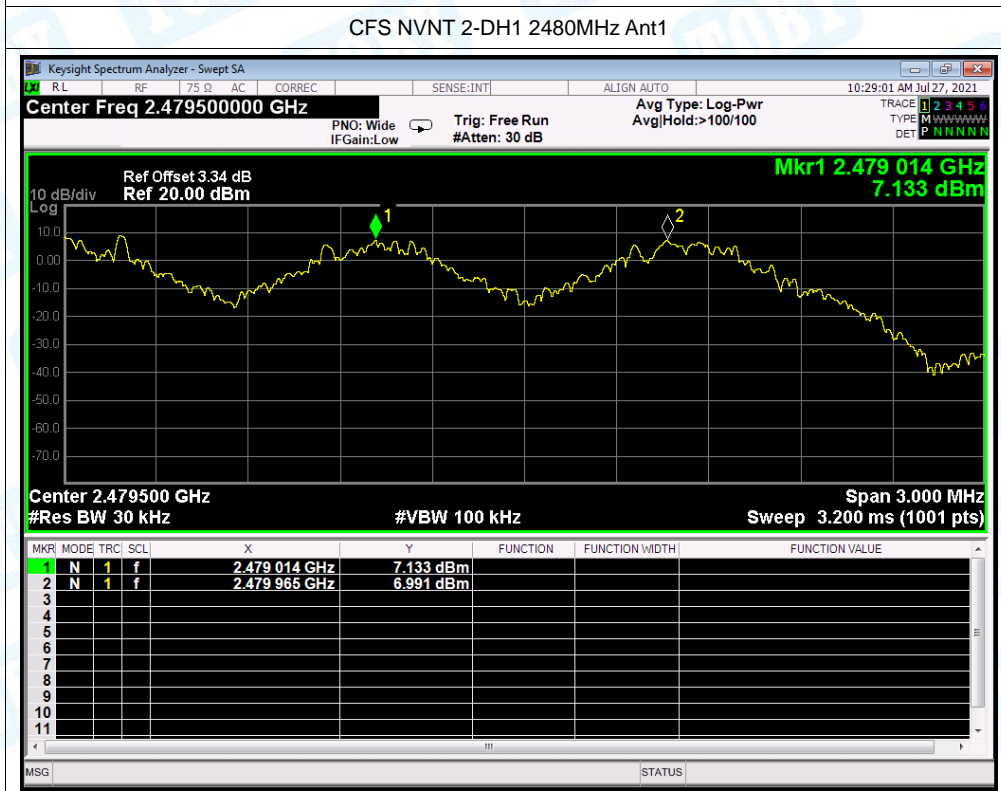
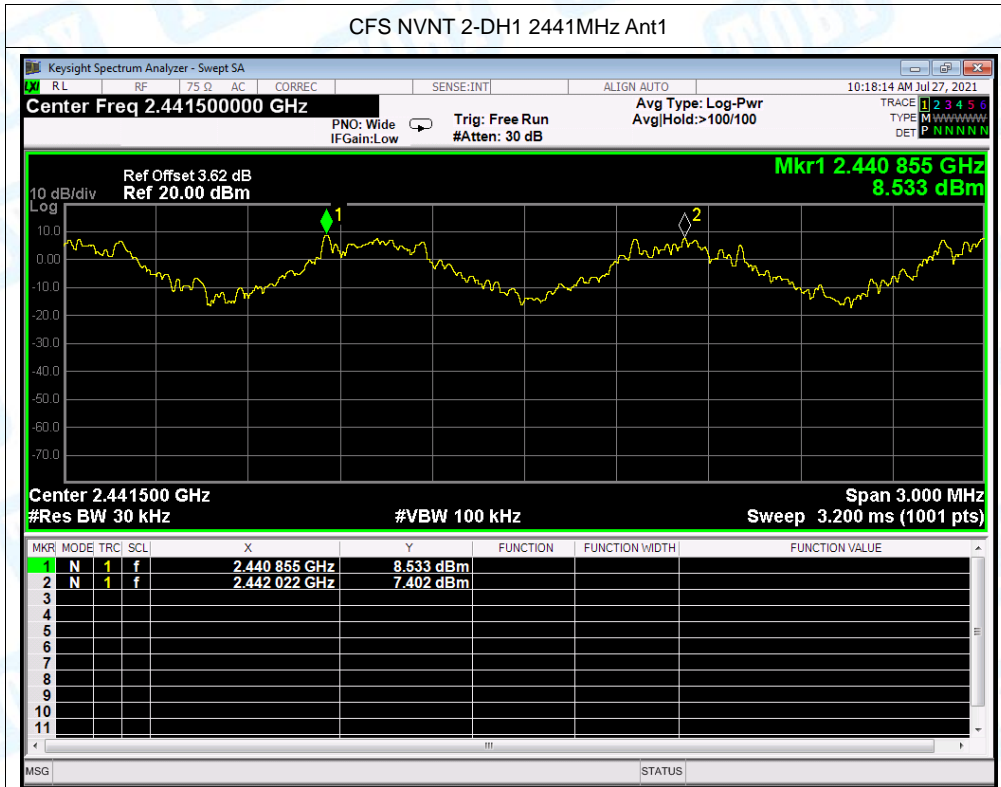


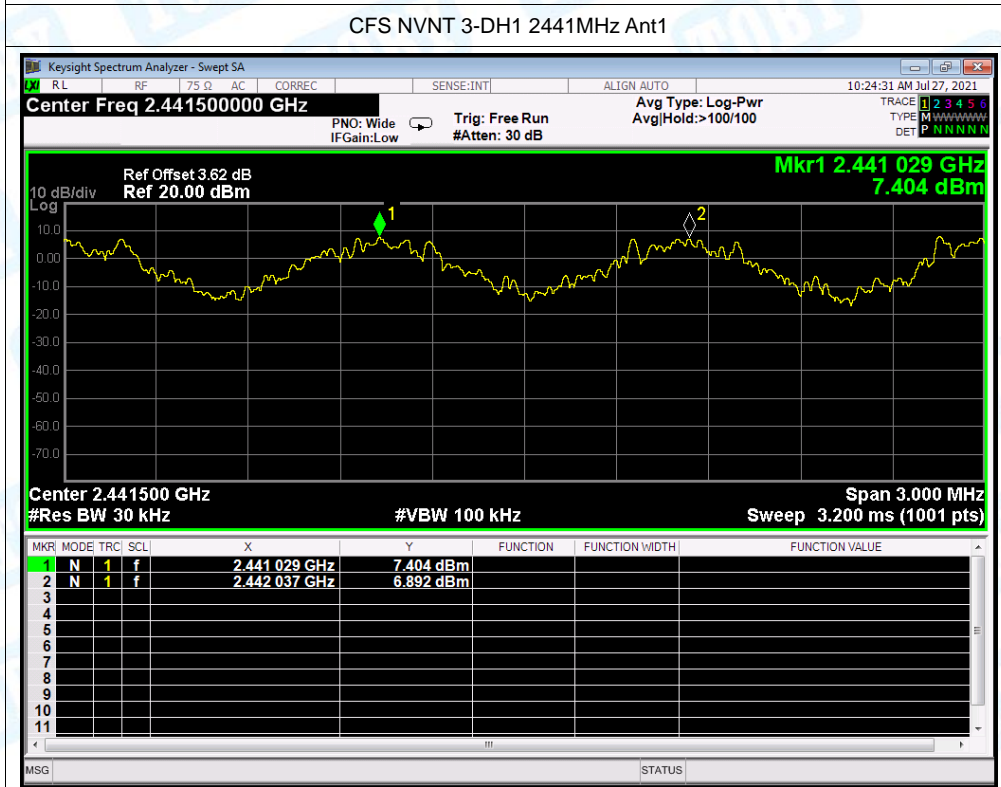
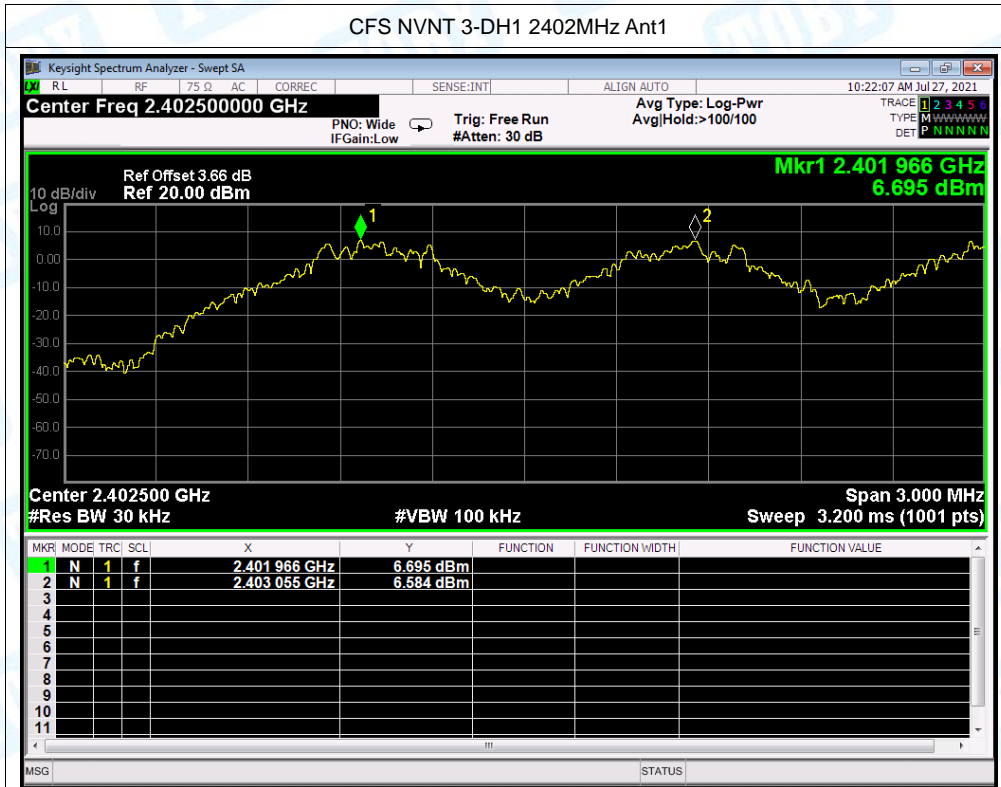
3.Carrier Frequencies Separation

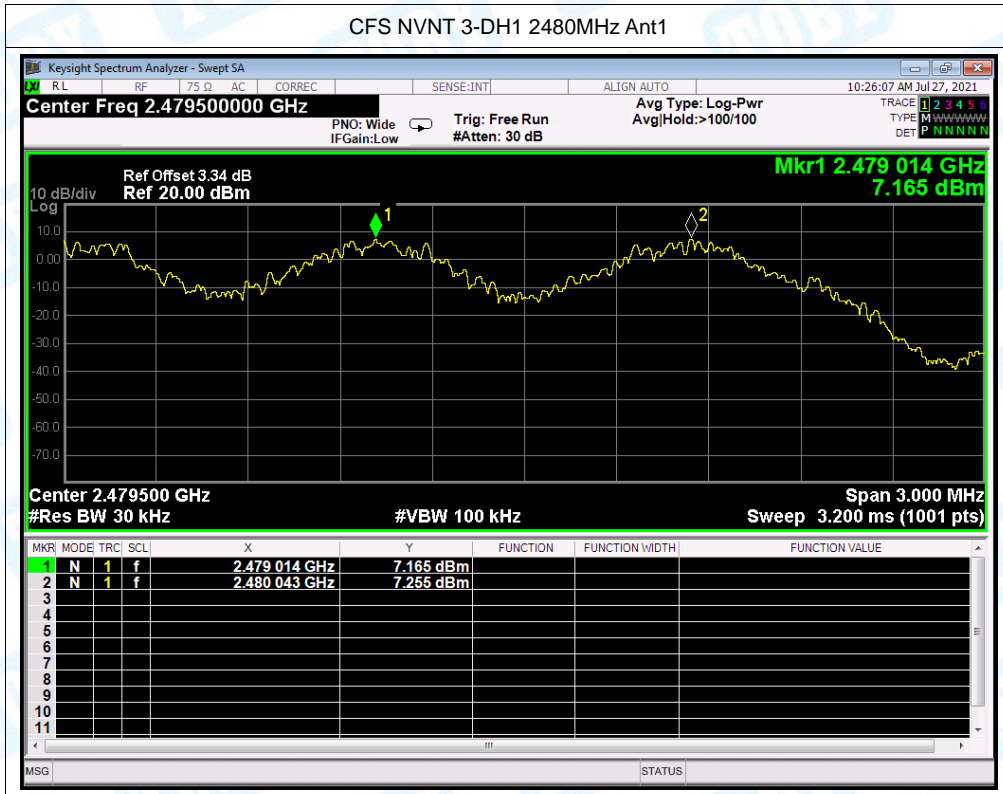
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2402.008	2403.037	1.029	0.639	Pass
NVNT	1-DH1	Ant1	2441.191	2442.028	0.837	0.642	Pass
NVNT	1-DH1	Ant1	2479.032	2479.851	0.819	0.635	Pass
NVNT	2-DH1	Ant1	2401.87	2403.013	1.143	0.912	Pass
NVNT	2-DH1	Ant1	2440.855	2442.022	1.167	0.909	Pass
NVNT	2-DH1	Ant1	2479.014	2479.965	0.951	0.913	Pass
NVNT	3-DH1	Ant1	2401.966	2403.055	1.089	0.899	Pass
NVNT	3-DH1	Ant1	2441.029	2442.037	1.008	0.901	Pass
NVNT	3-DH1	Ant1	2479.014	2480.043	1.029	0.903	Pass





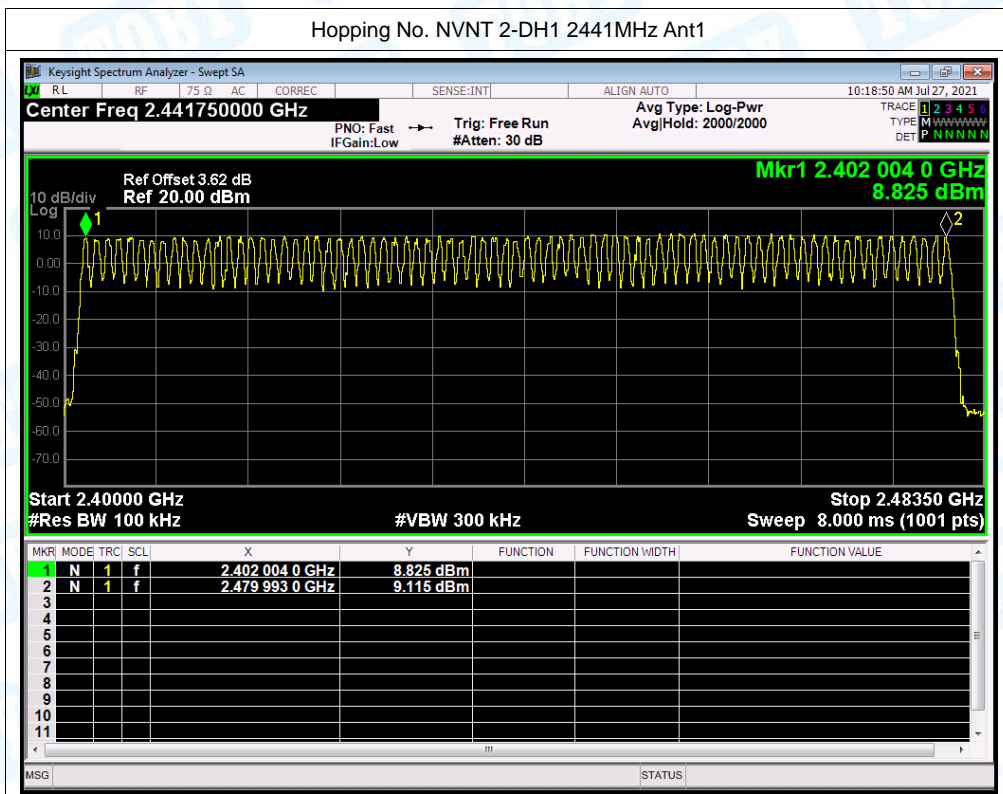
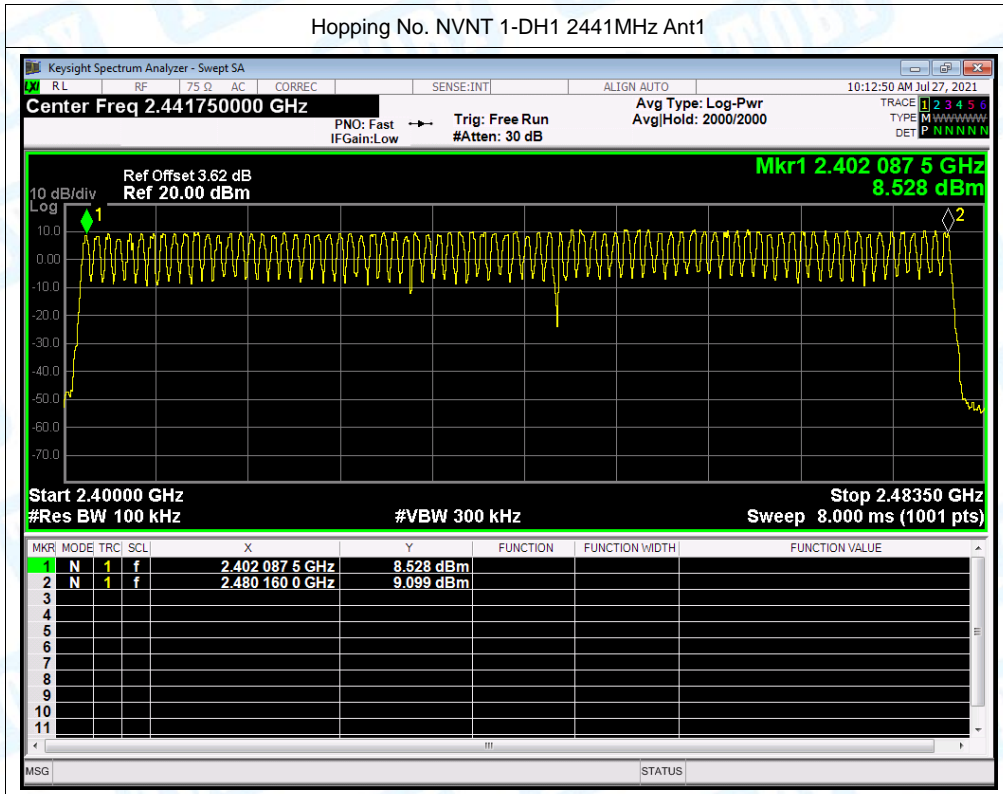


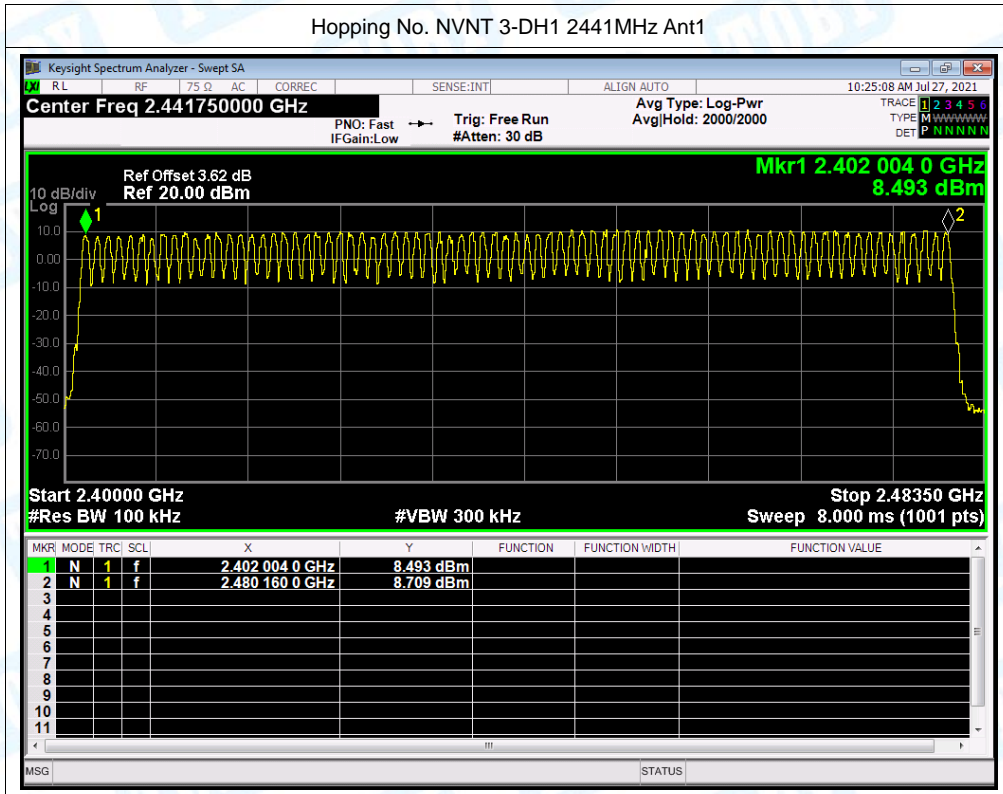




4.Number of Hopping Channel

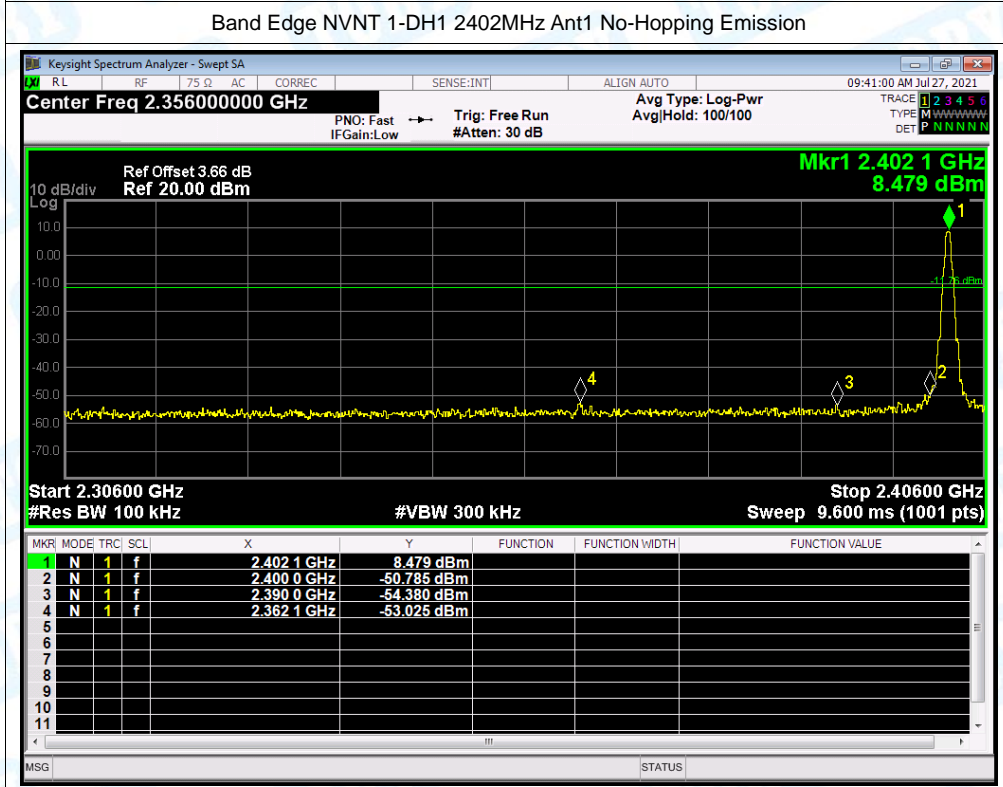
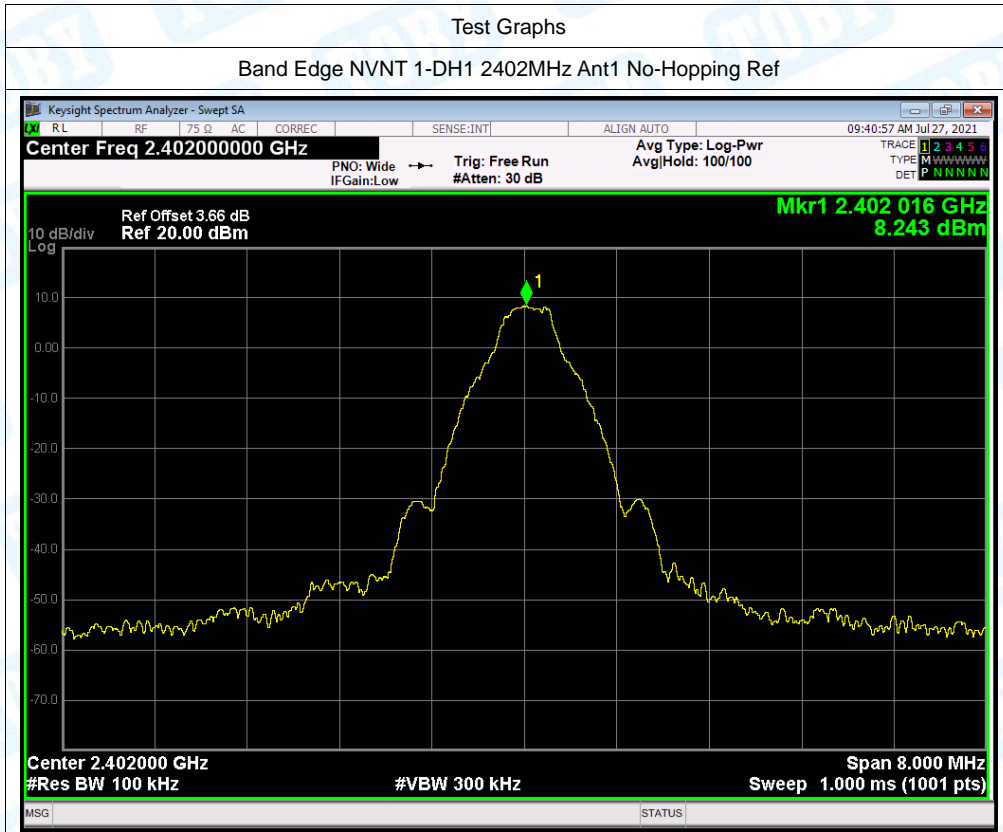
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

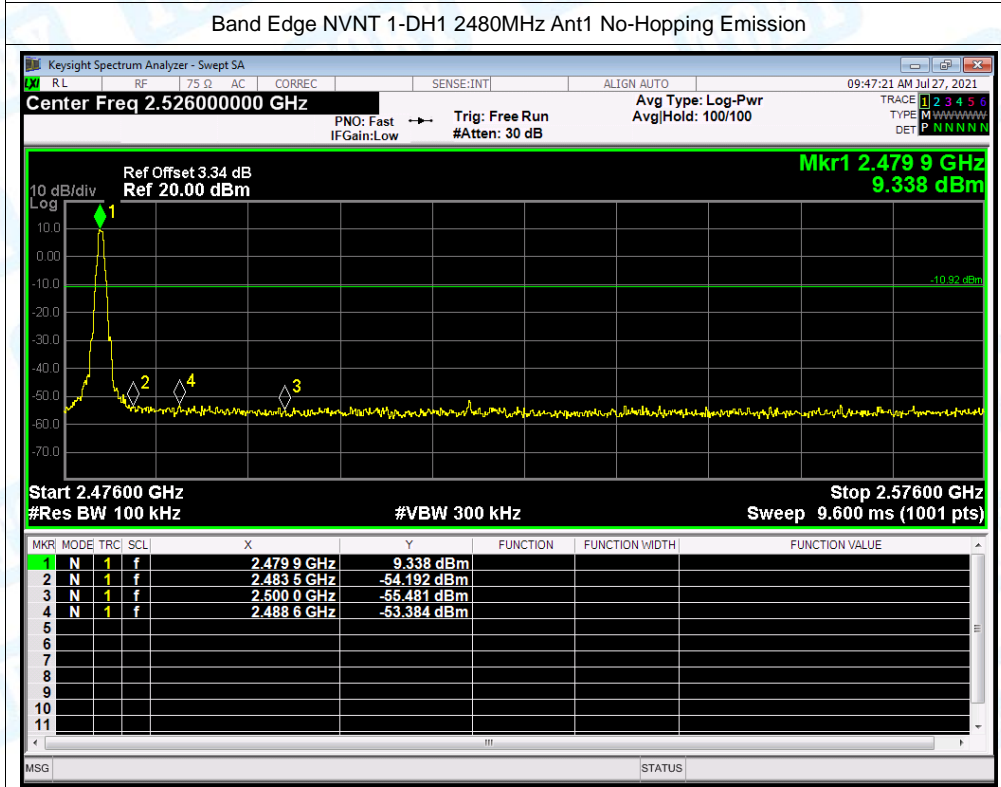
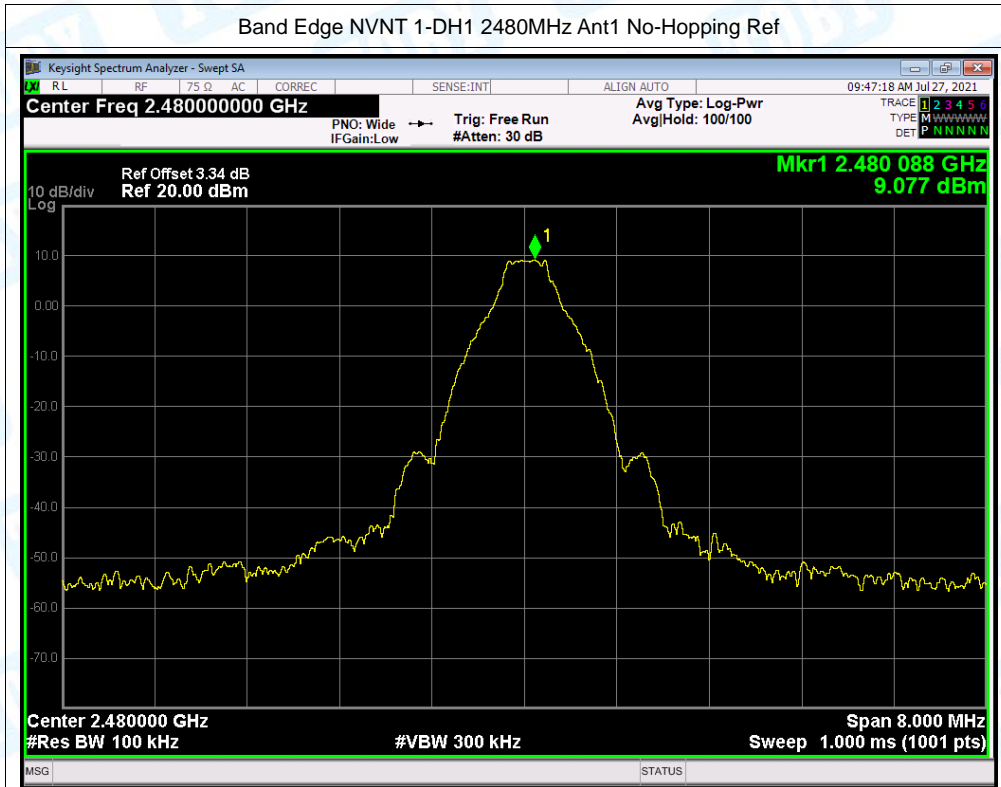


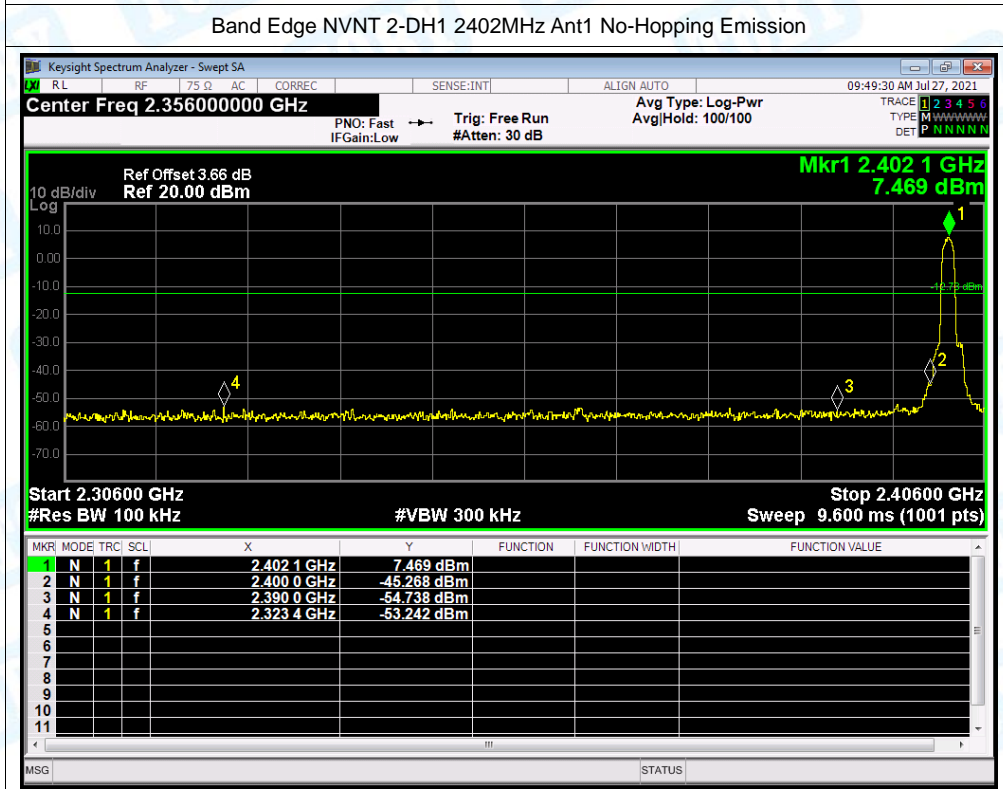
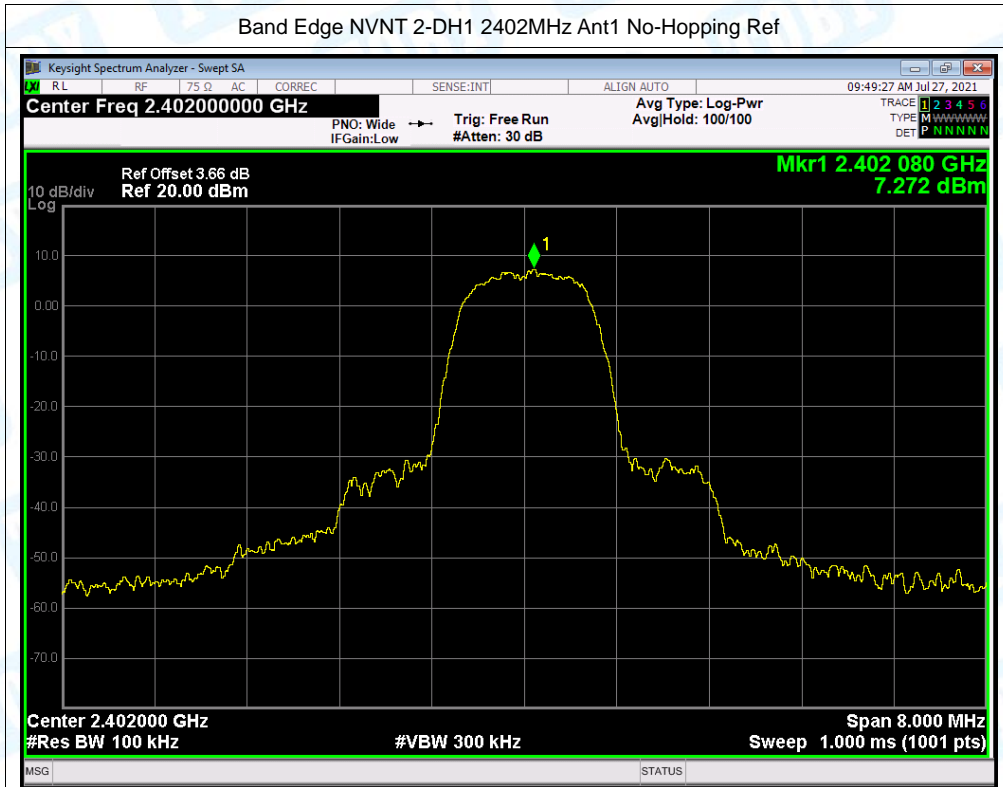


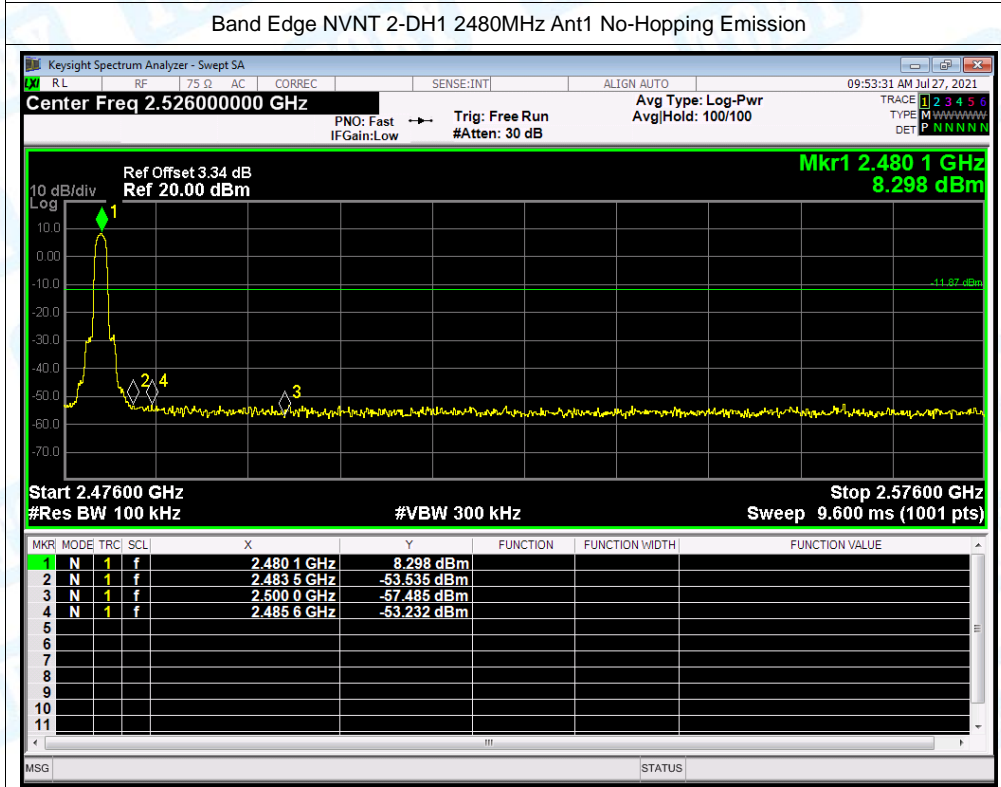
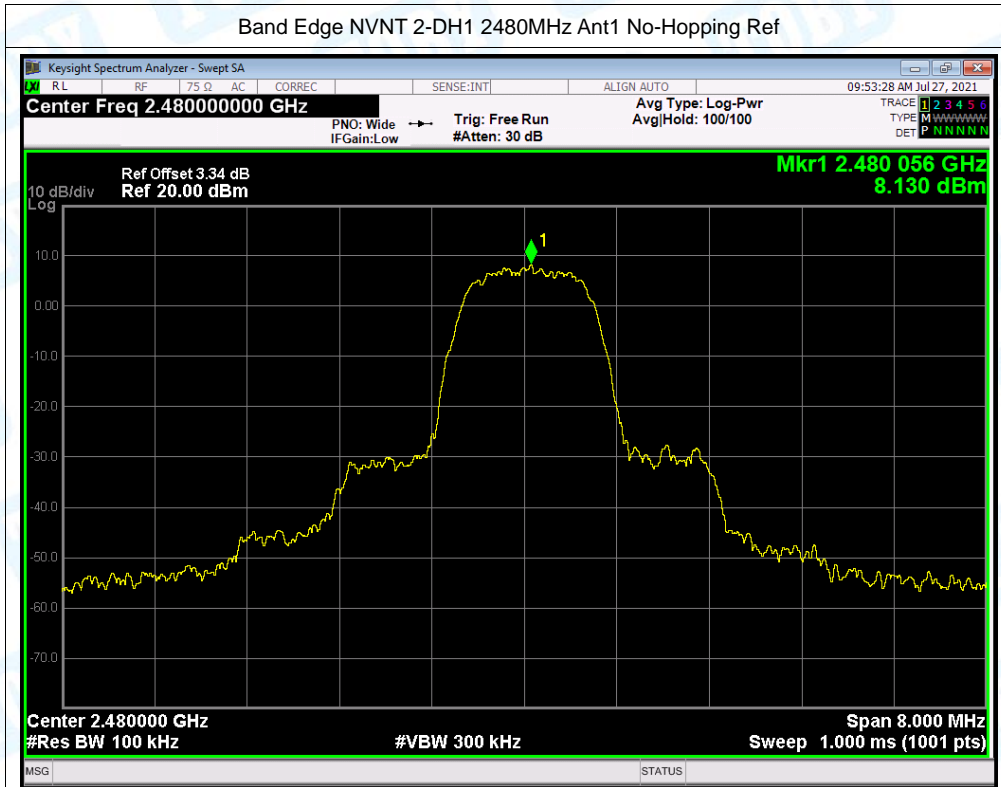
5.Band Edge

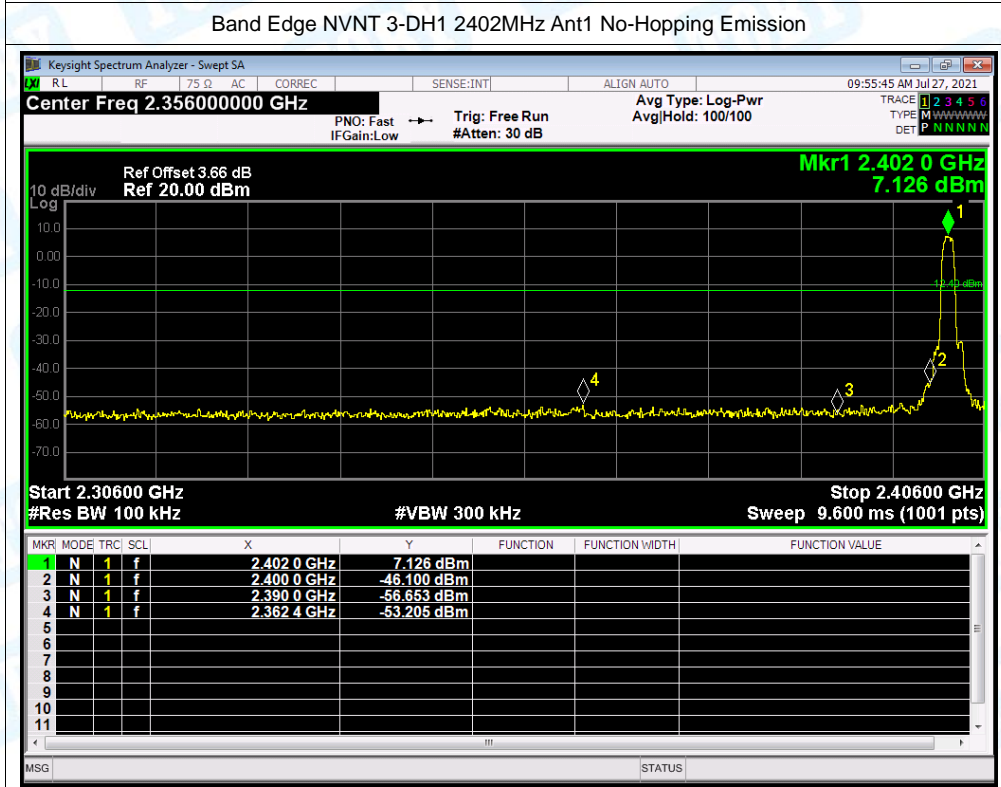
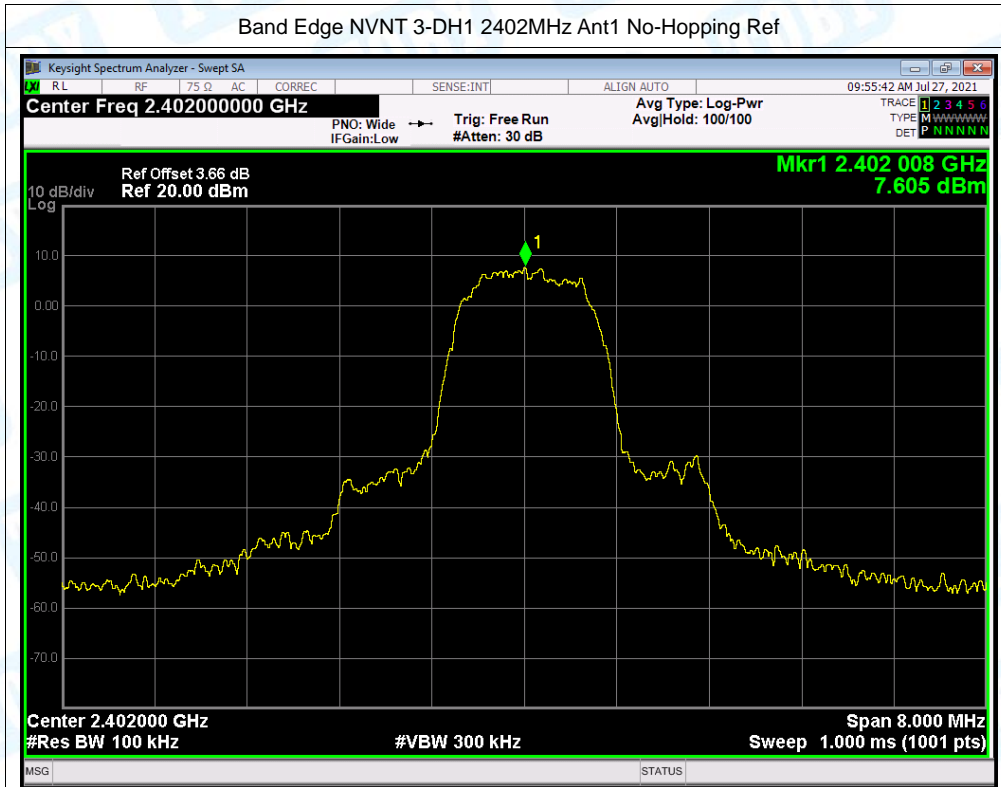
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-61.26	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-62.46	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-60.51	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-61.36	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-60.81	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-60.85	-20	Pass

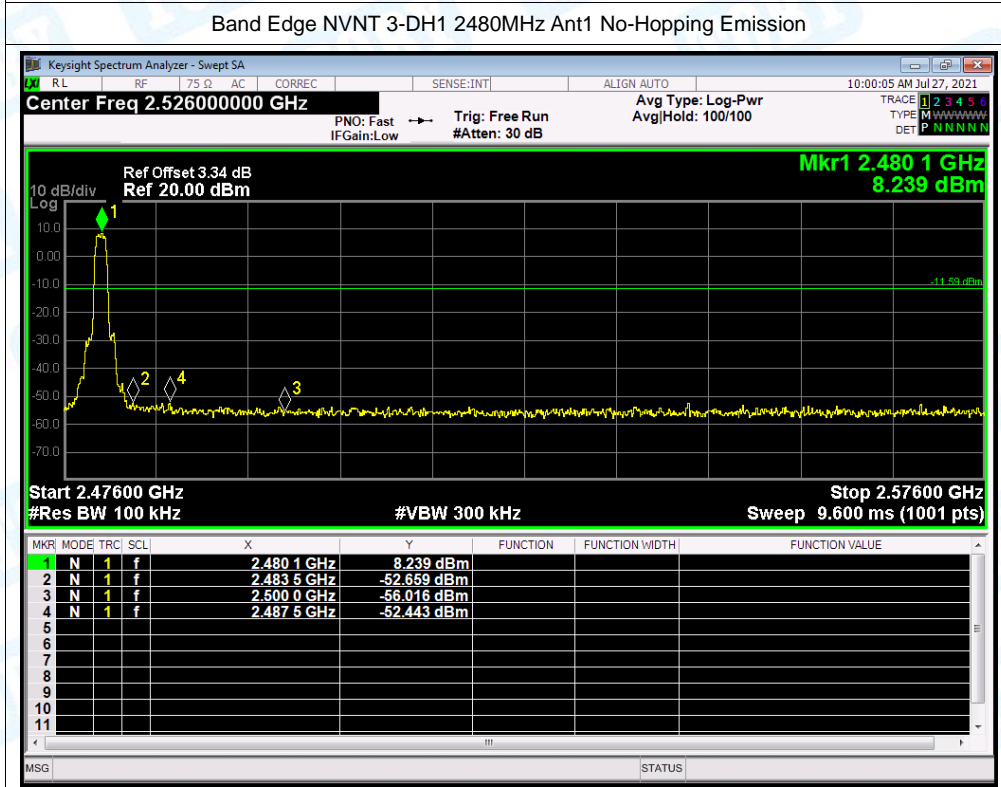
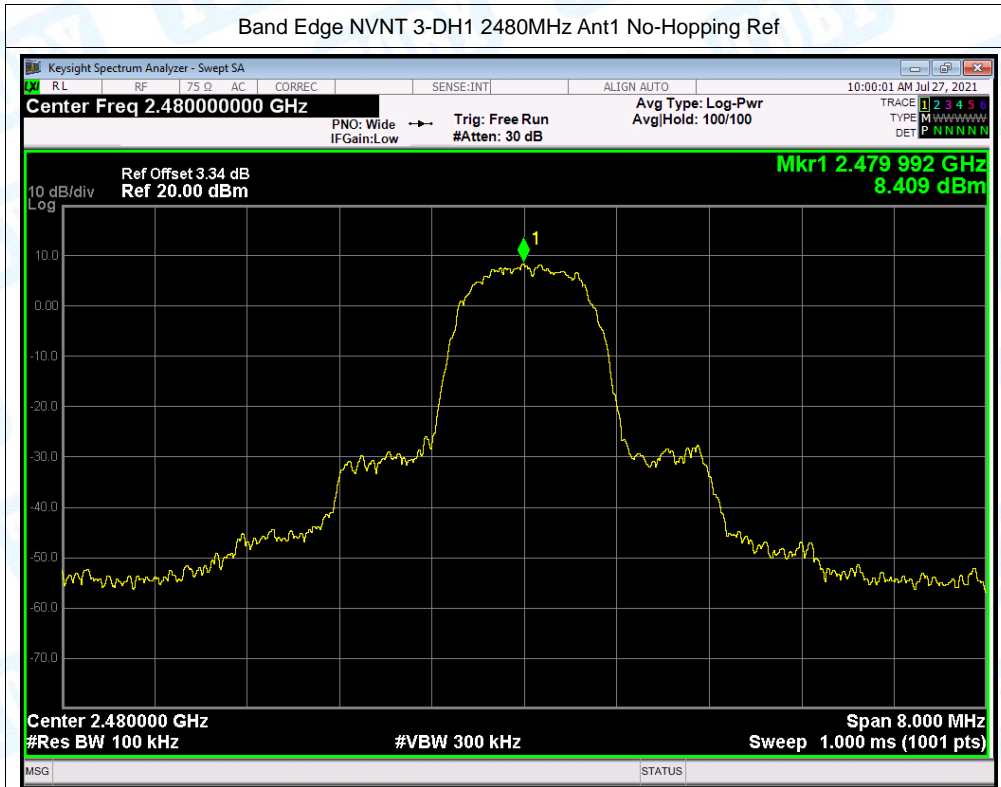






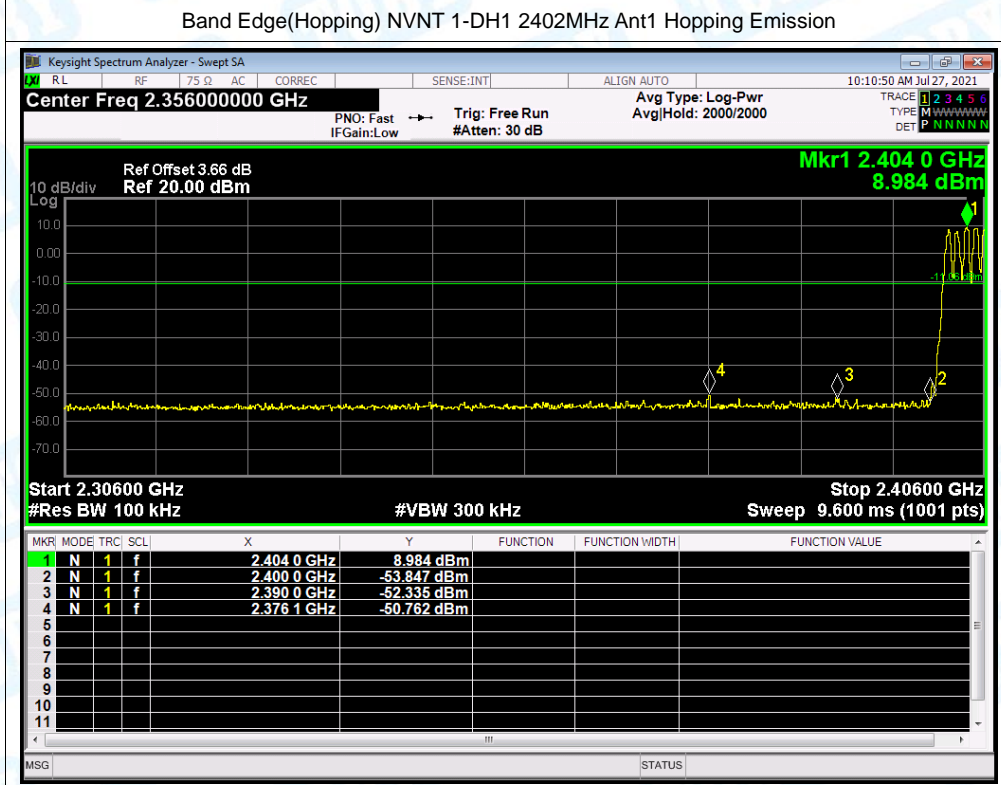


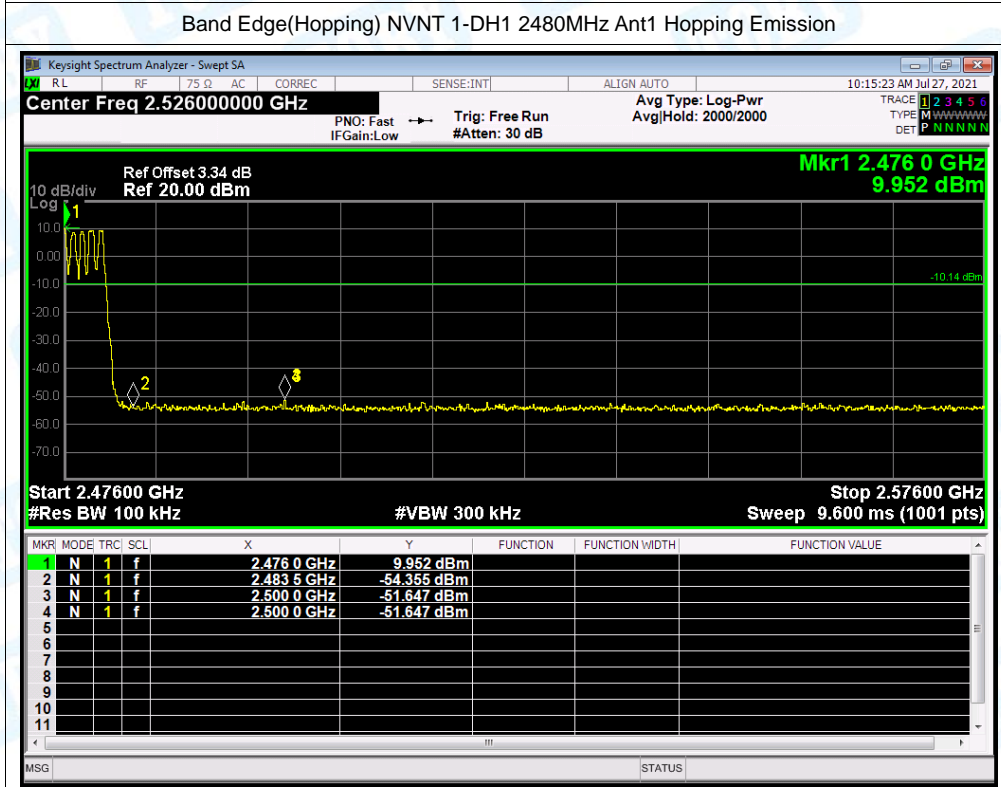
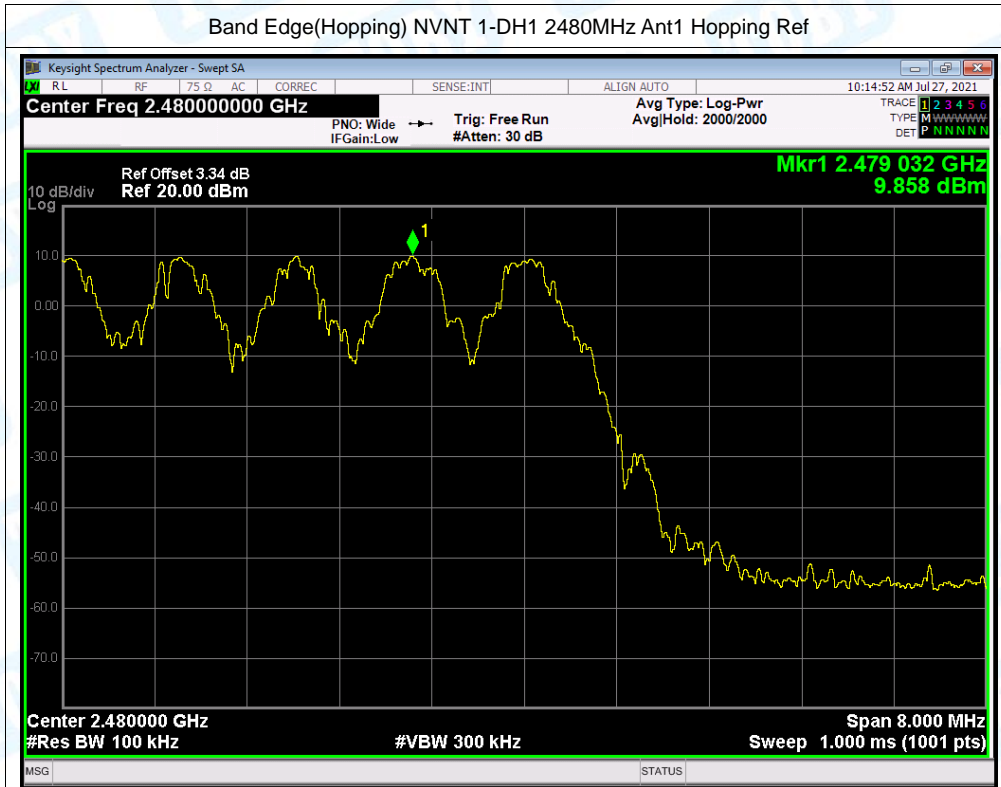


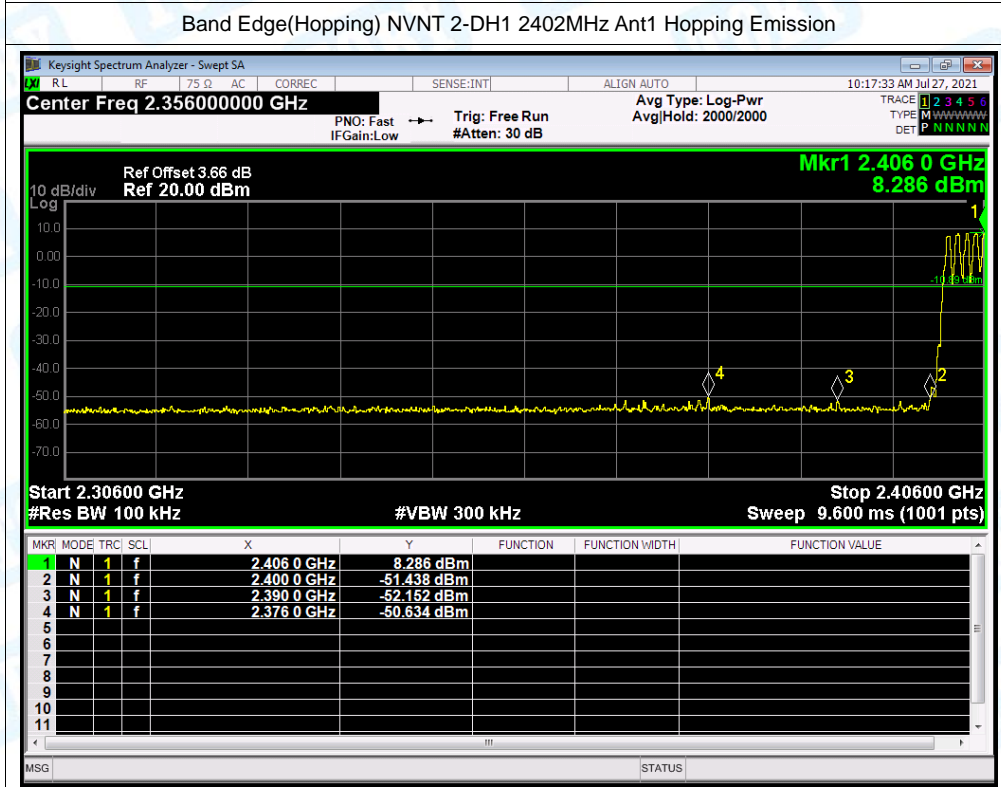
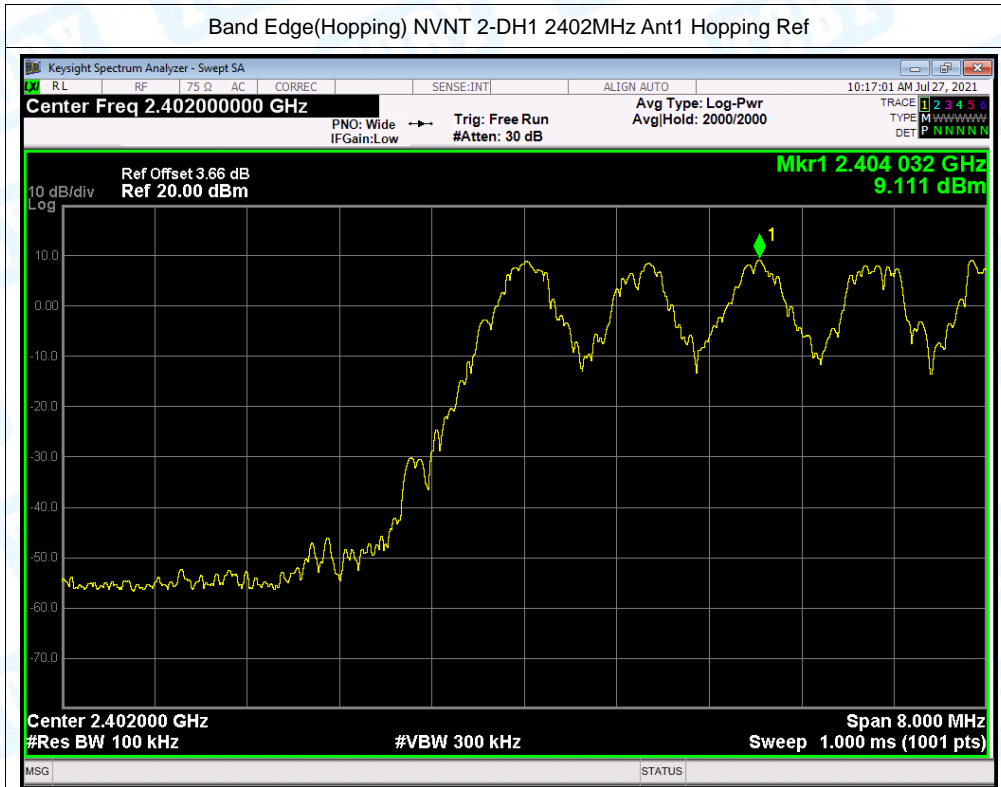


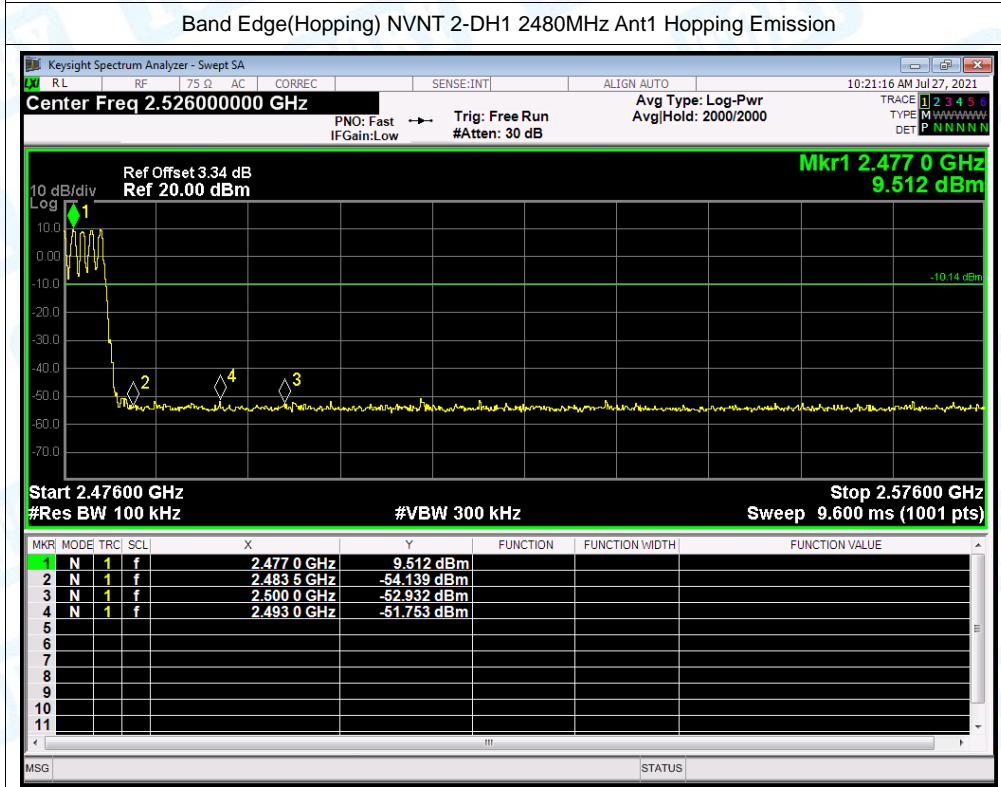
6. Band Edge(Hopping)

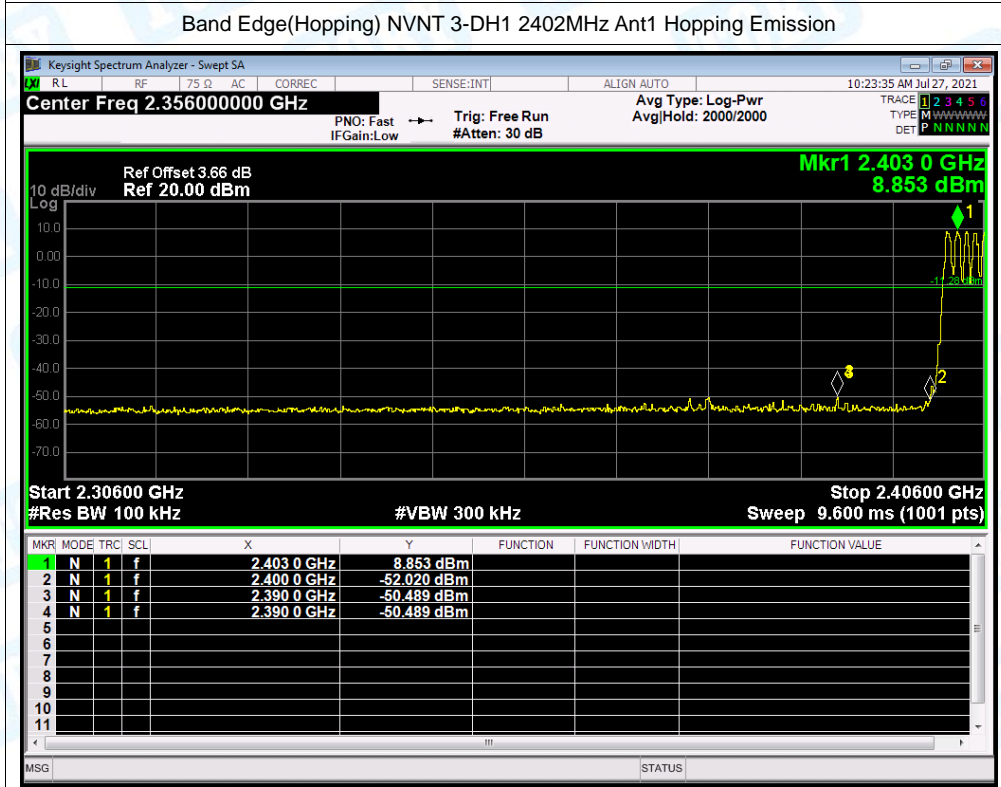
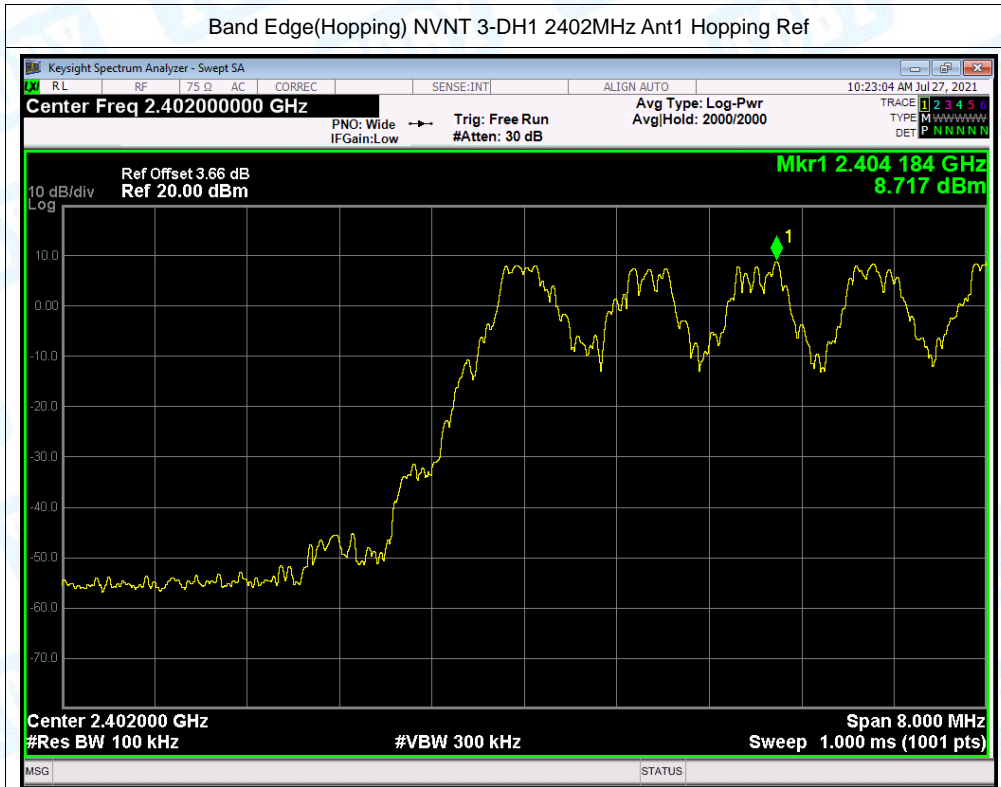
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-59.7	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-61.5	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-59.74	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-61.61	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-59.2	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-61.96	-20	Pass

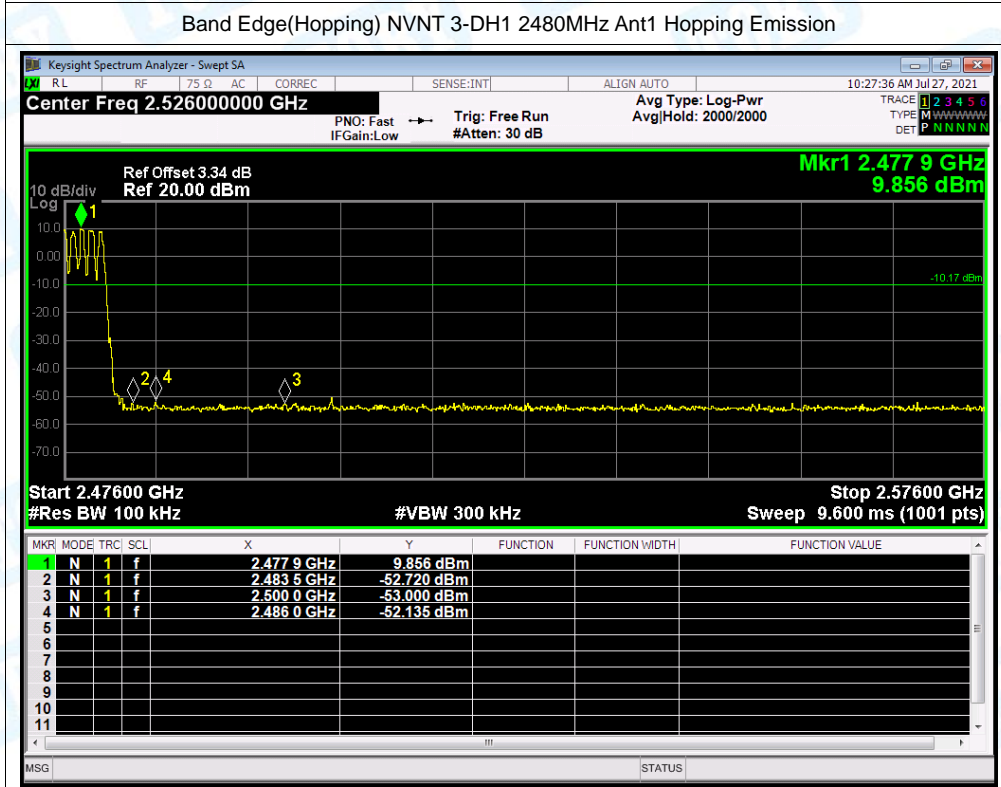






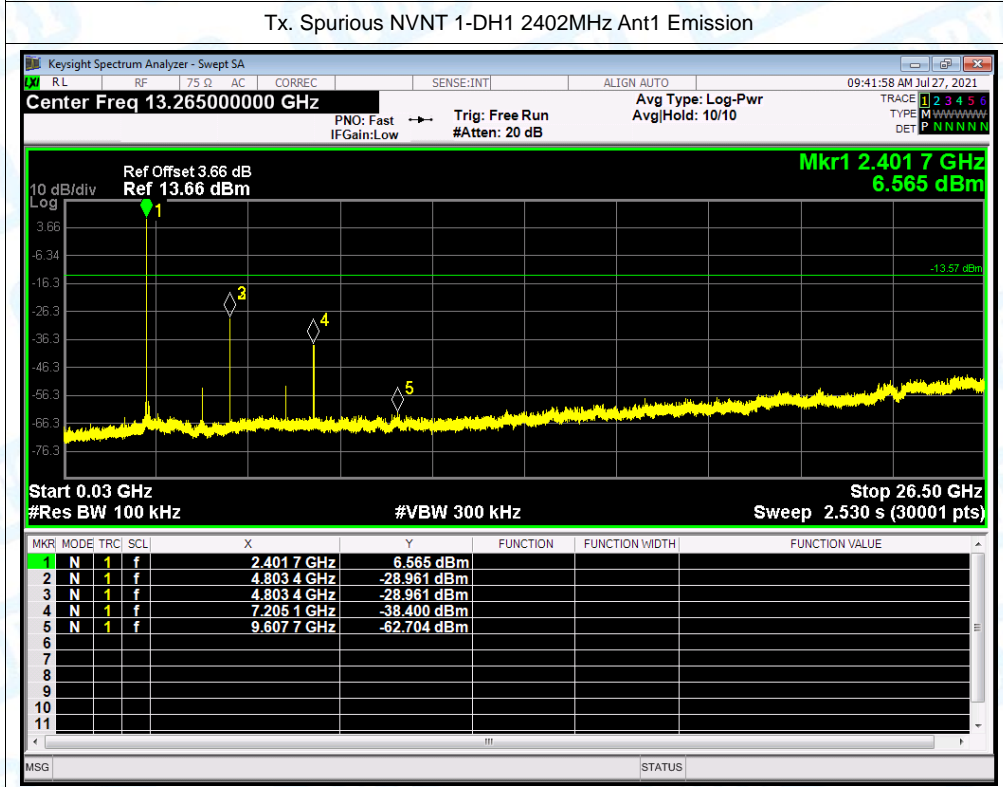
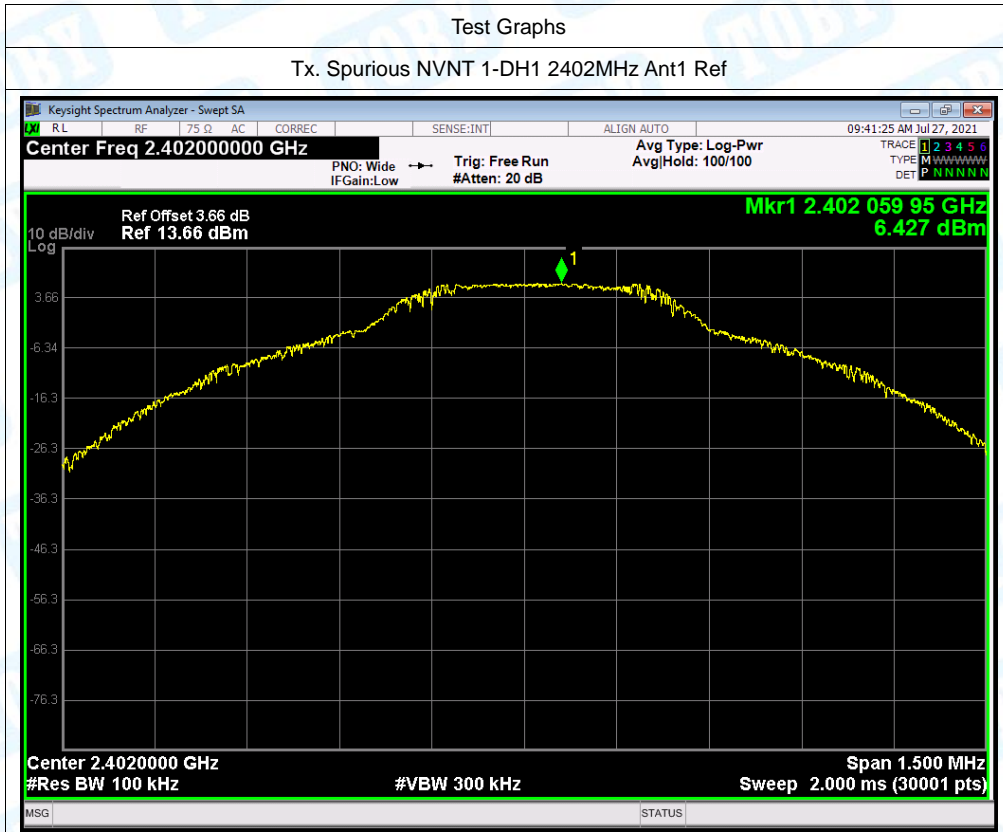


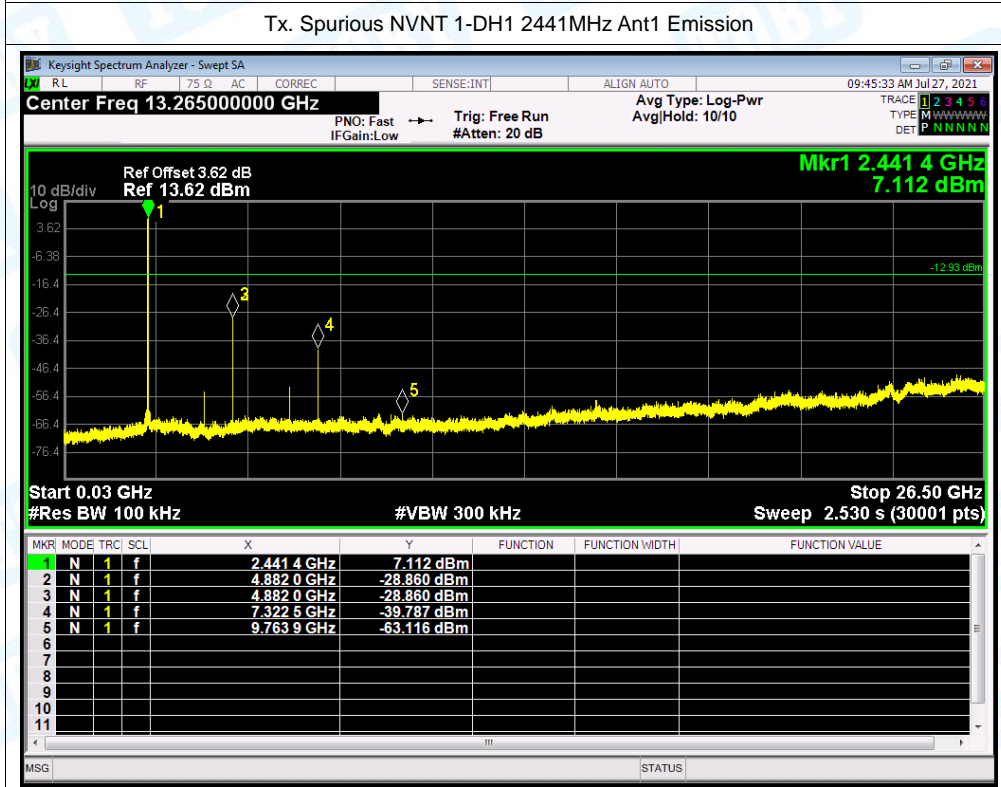
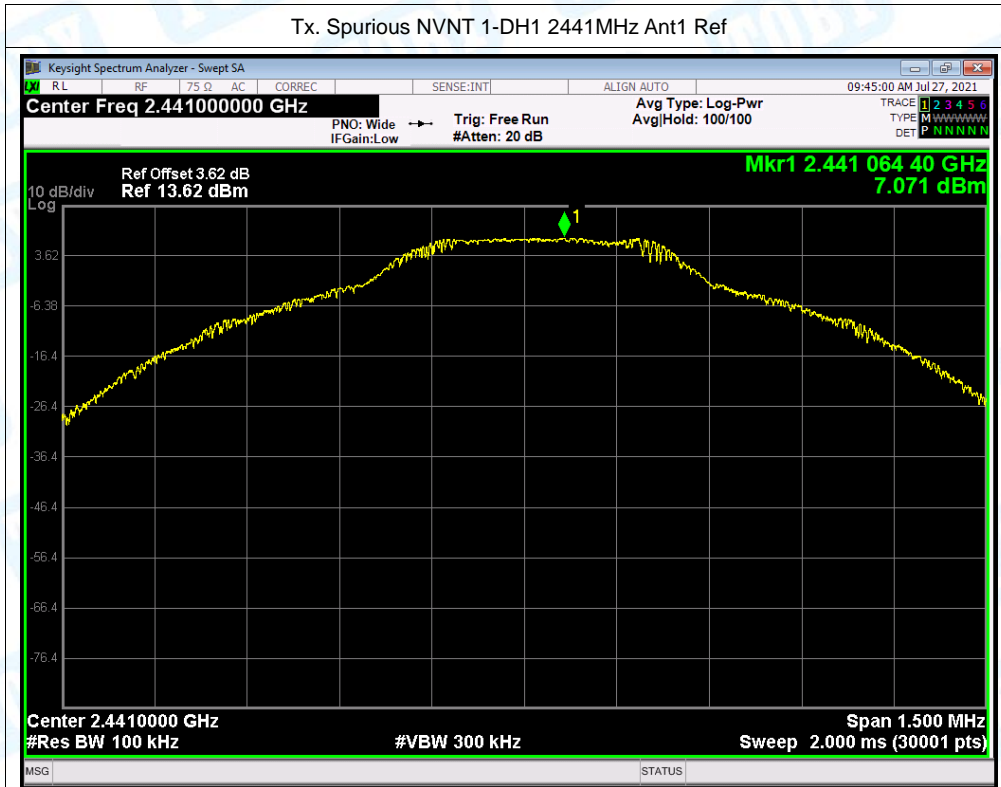


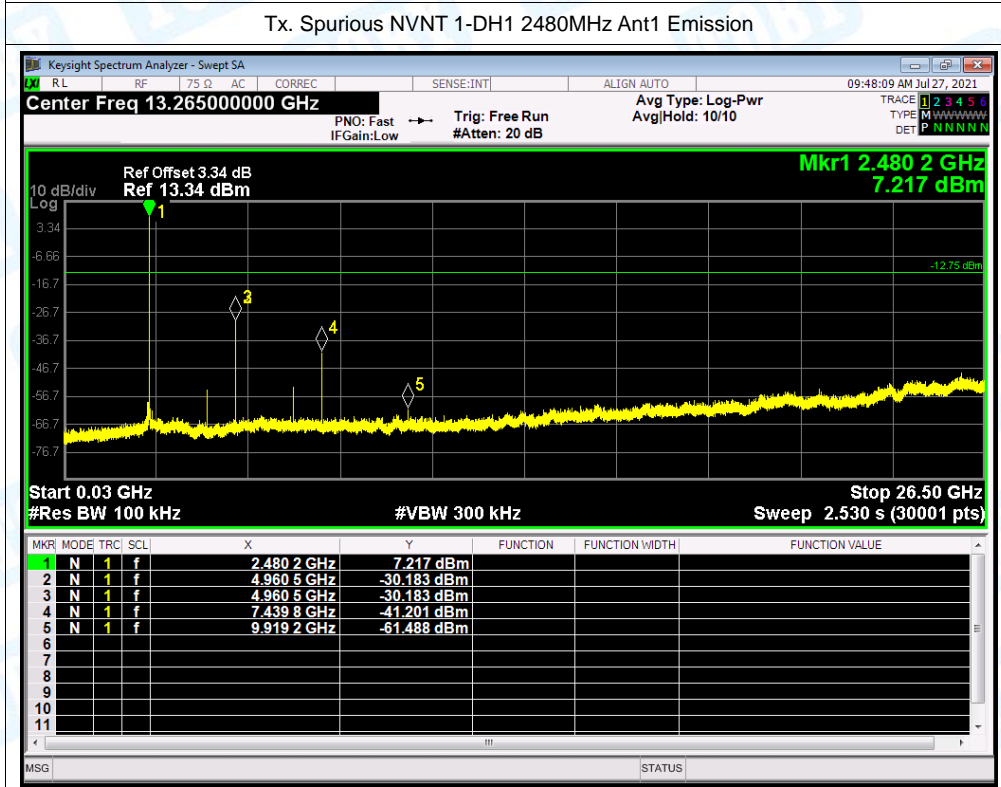
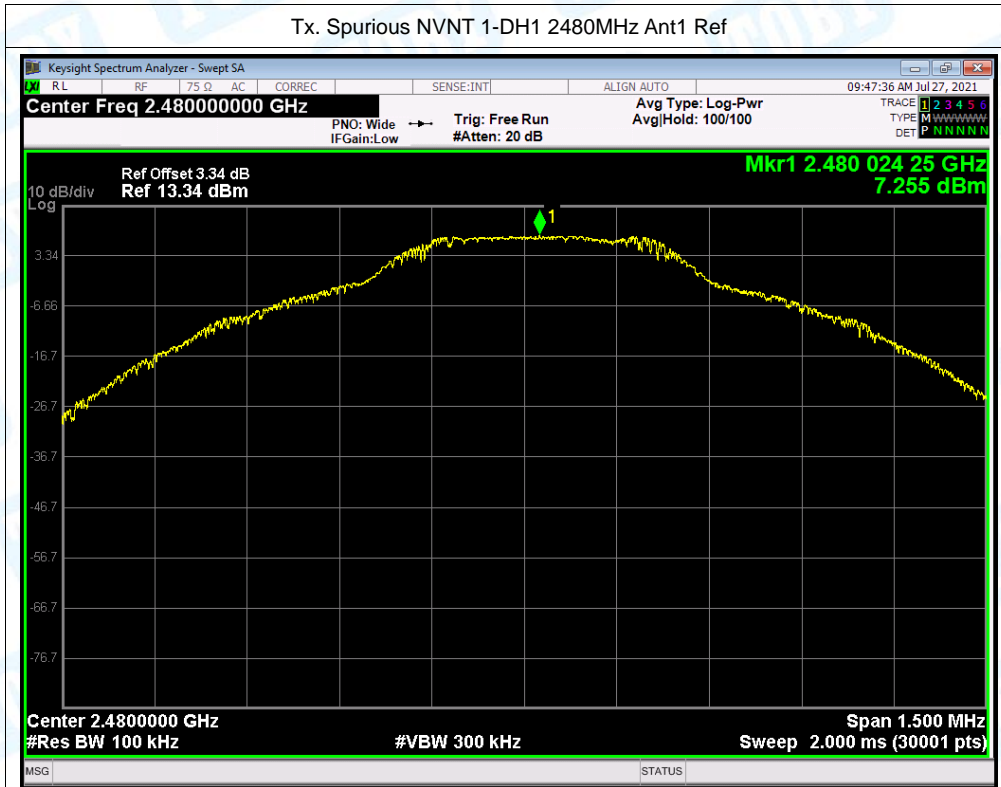


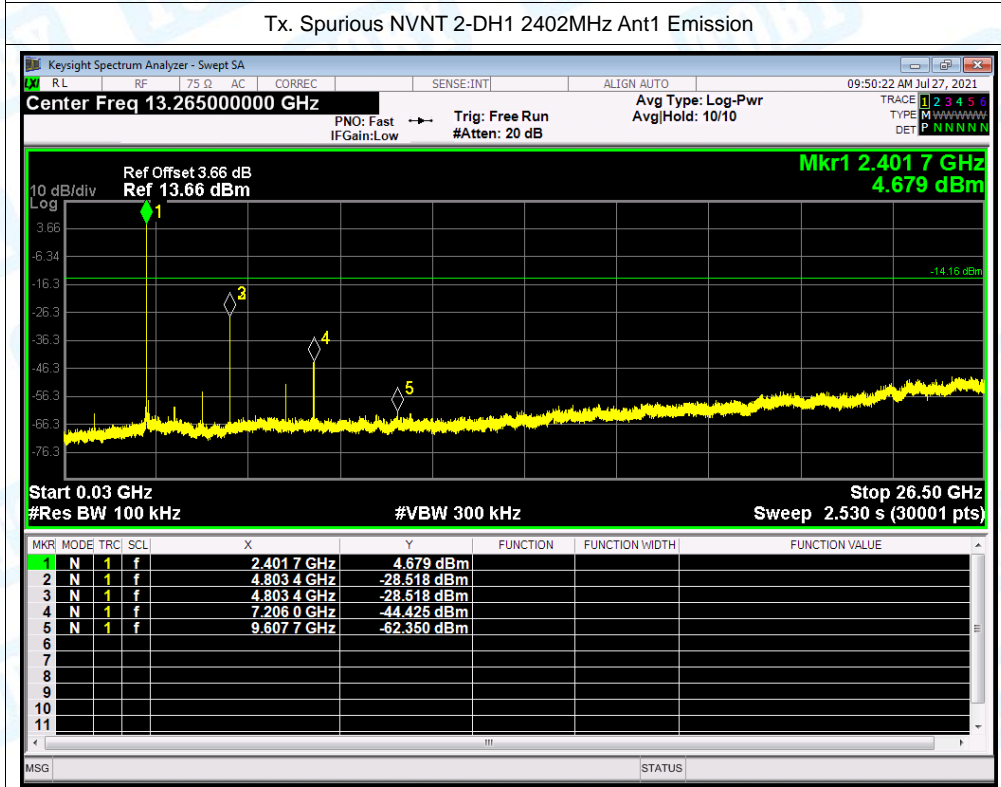
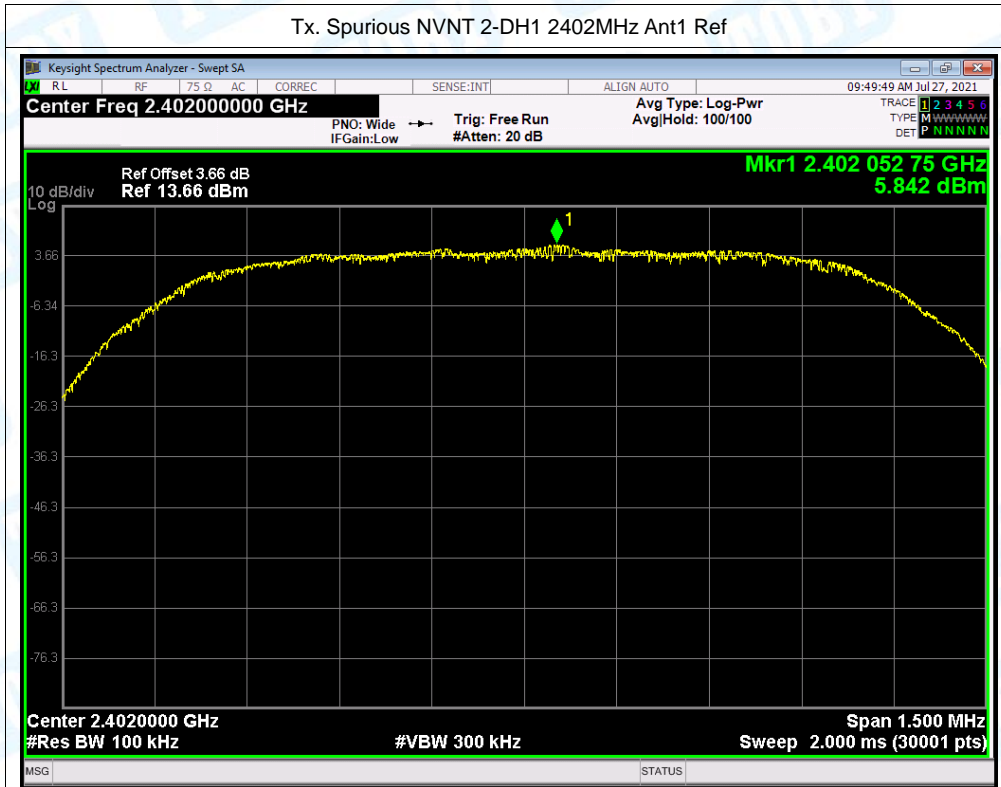
7. Conducted RF Spurious Emission

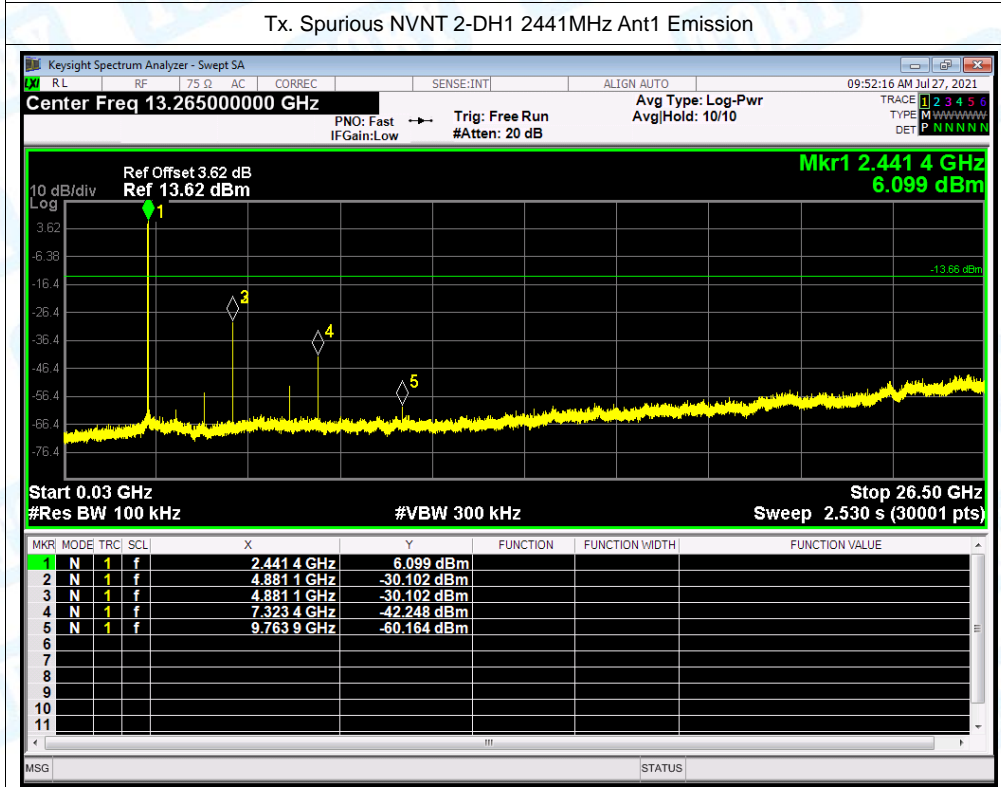
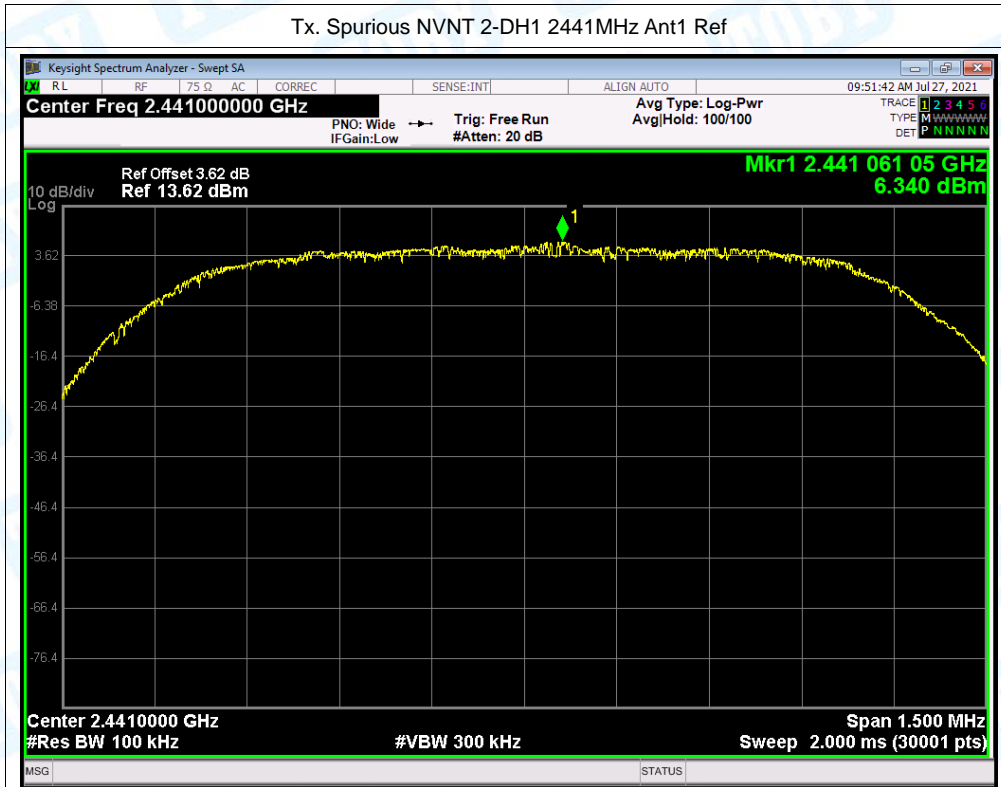
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-35.39	-20	Pass
NVNT	1-DH1	2441	Ant1	-35.93	-20	Pass
NVNT	1-DH1	2480	Ant1	-37.44	-20	Pass
NVNT	2-DH1	2402	Ant1	-34.35	-20	Pass
NVNT	2-DH1	2441	Ant1	-36.44	-20	Pass
NVNT	2-DH1	2480	Ant1	-37.49	-20	Pass
NVNT	3-DH1	2402	Ant1	-33.82	-20	Pass
NVNT	3-DH1	2441	Ant1	-34.48	-20	Pass
NVNT	3-DH1	2480	Ant1	-36.33	-20	Pass

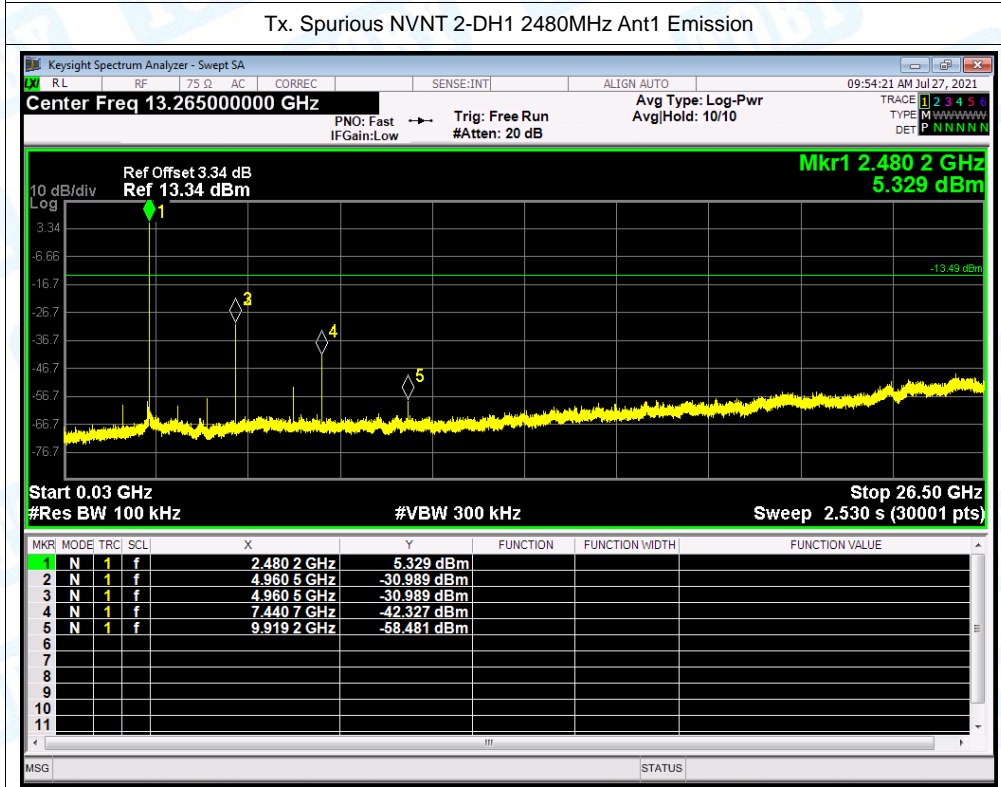
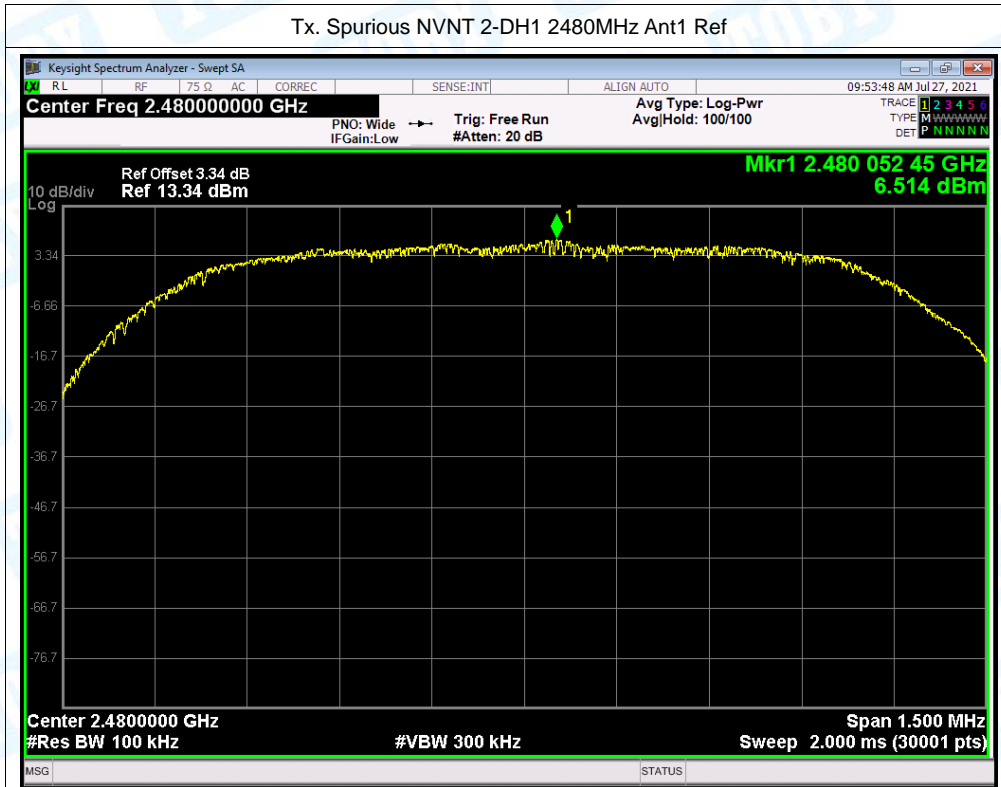


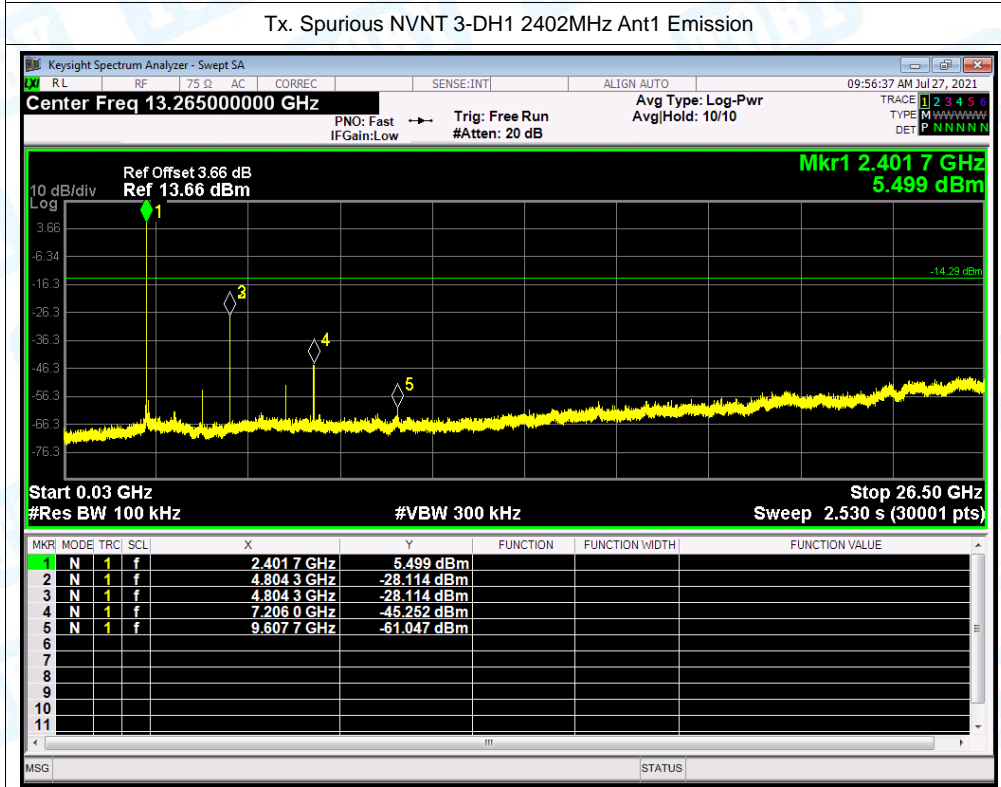
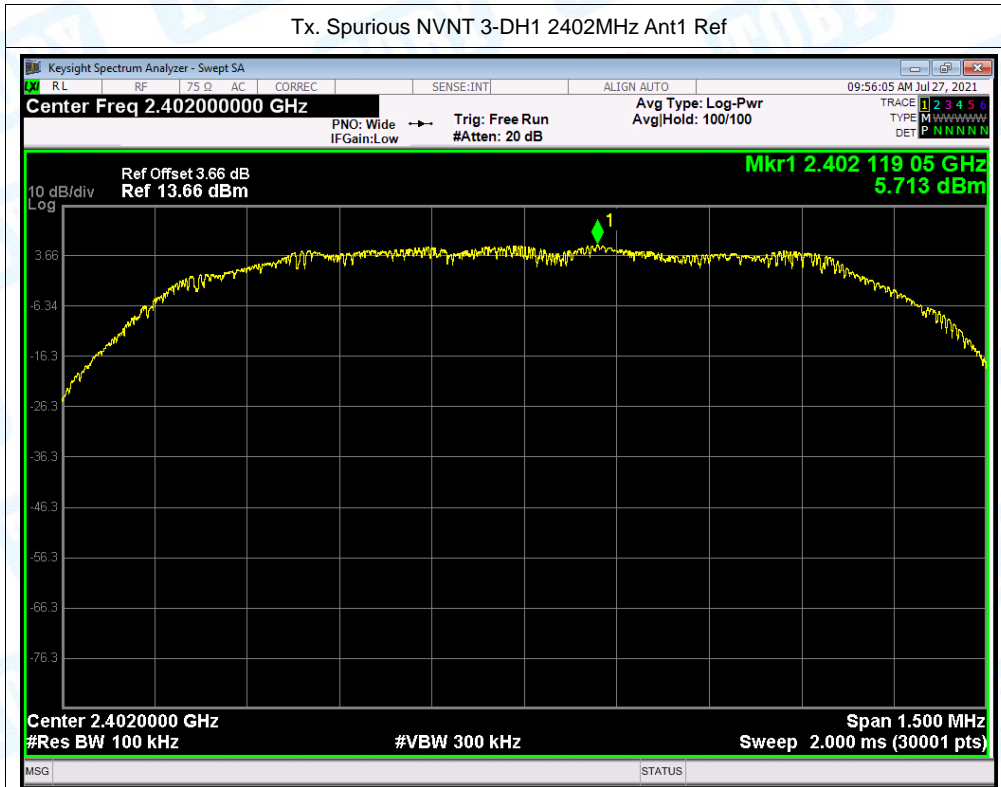


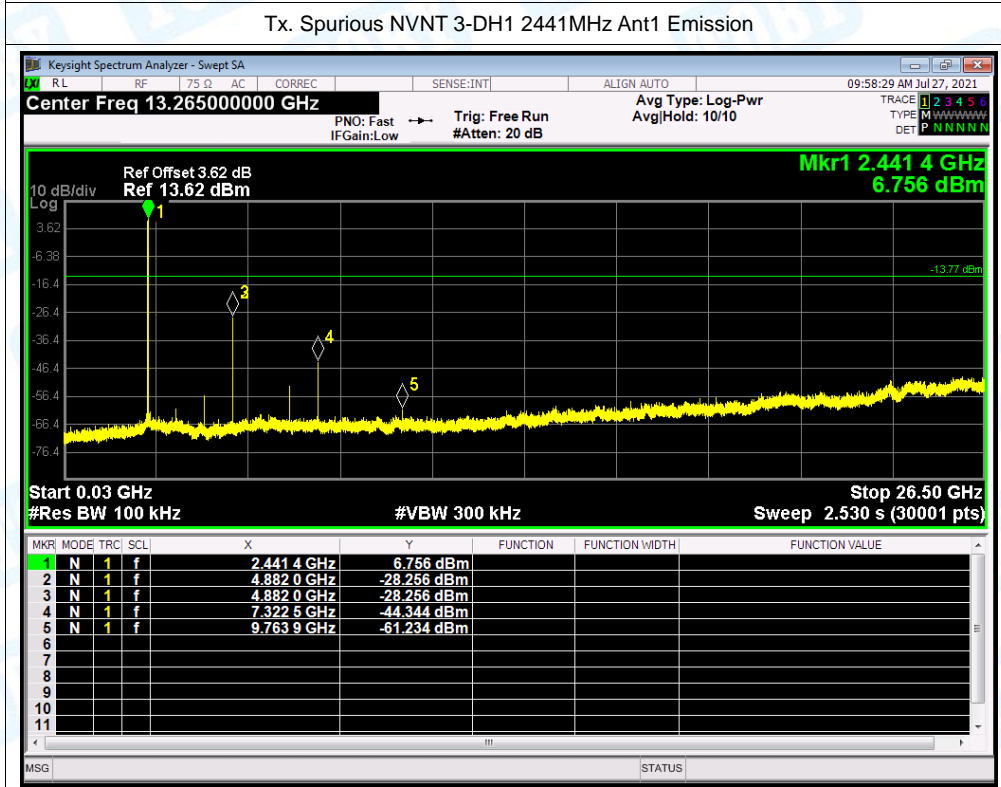
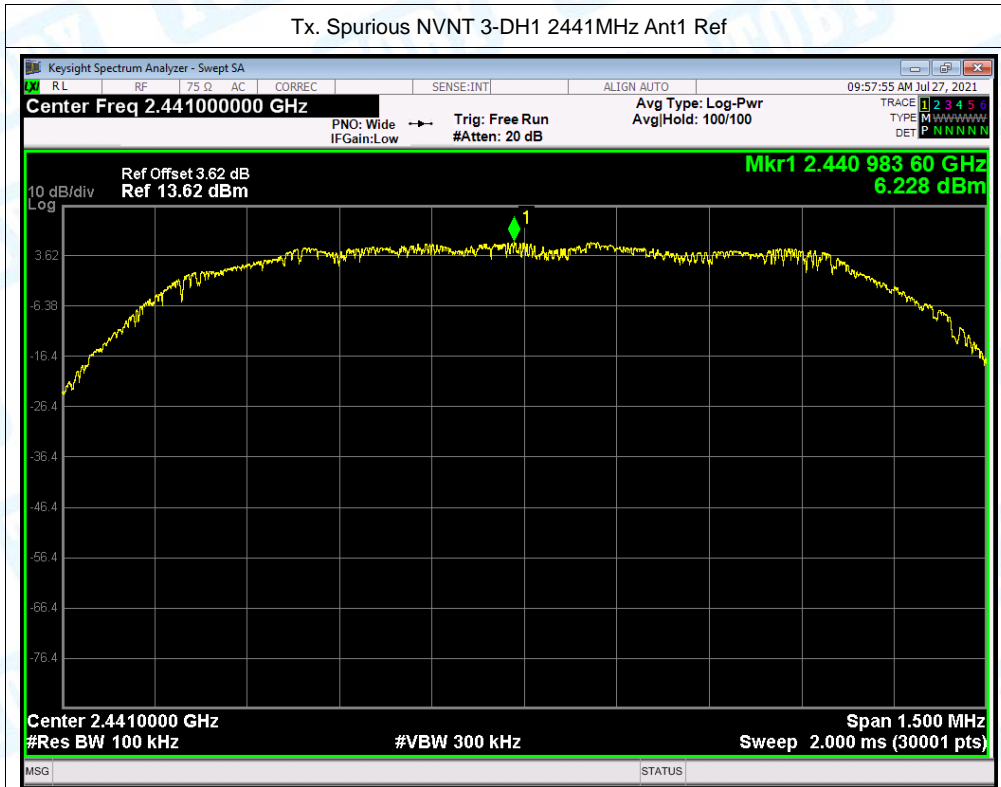


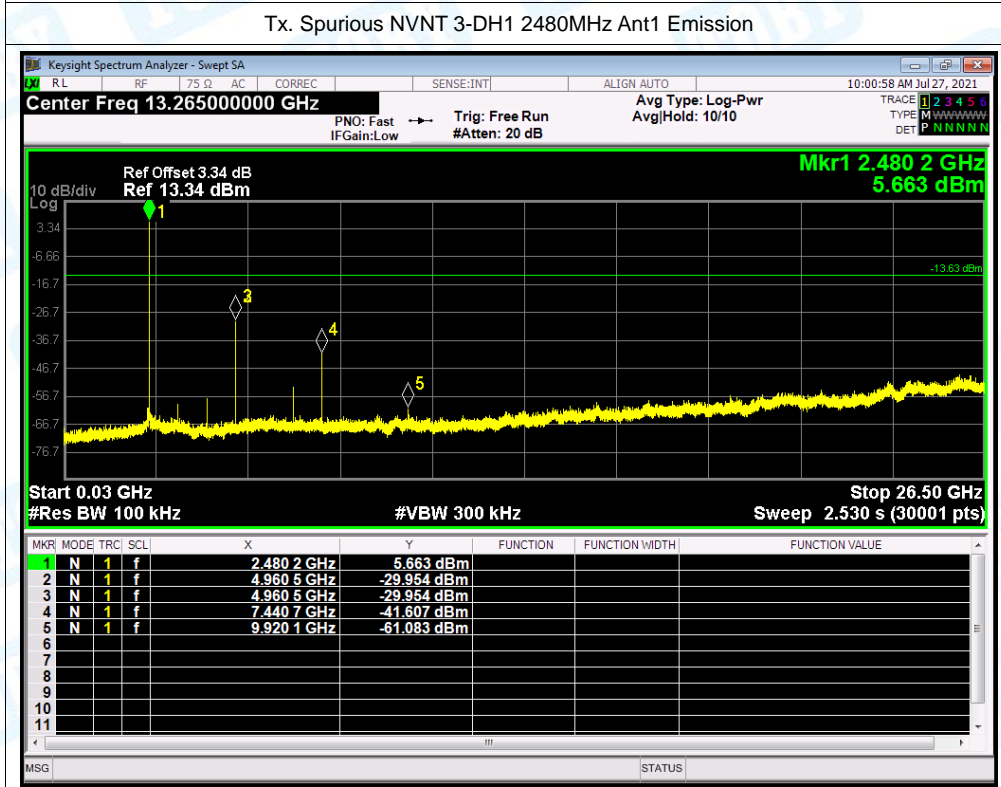
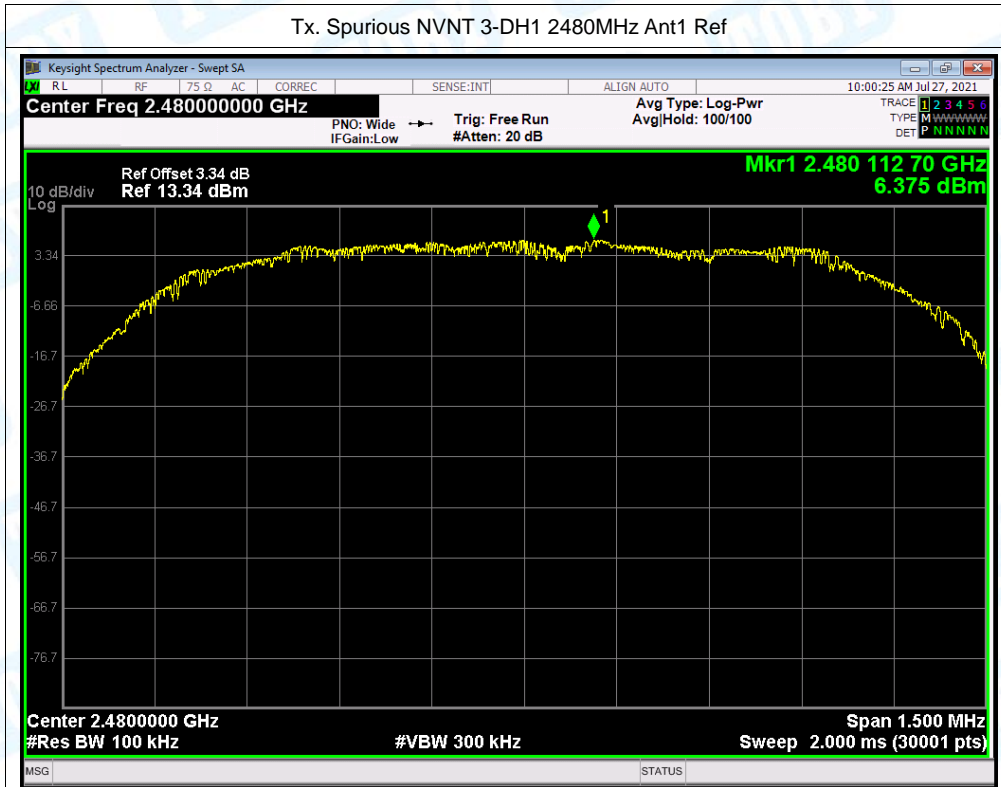






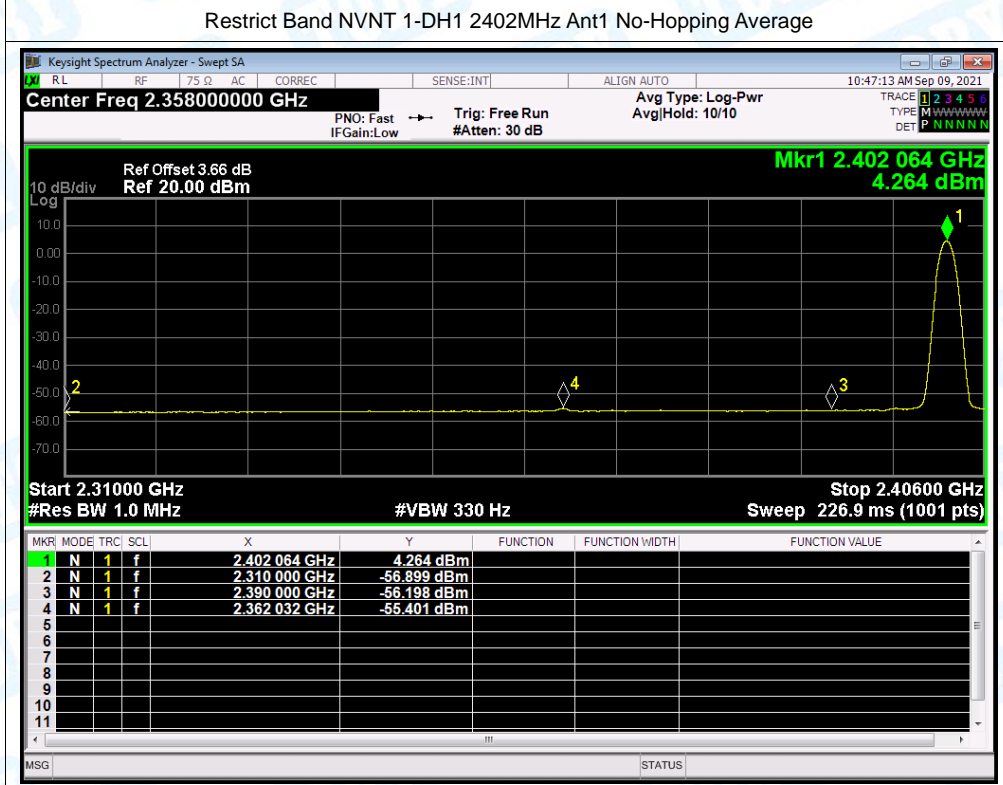
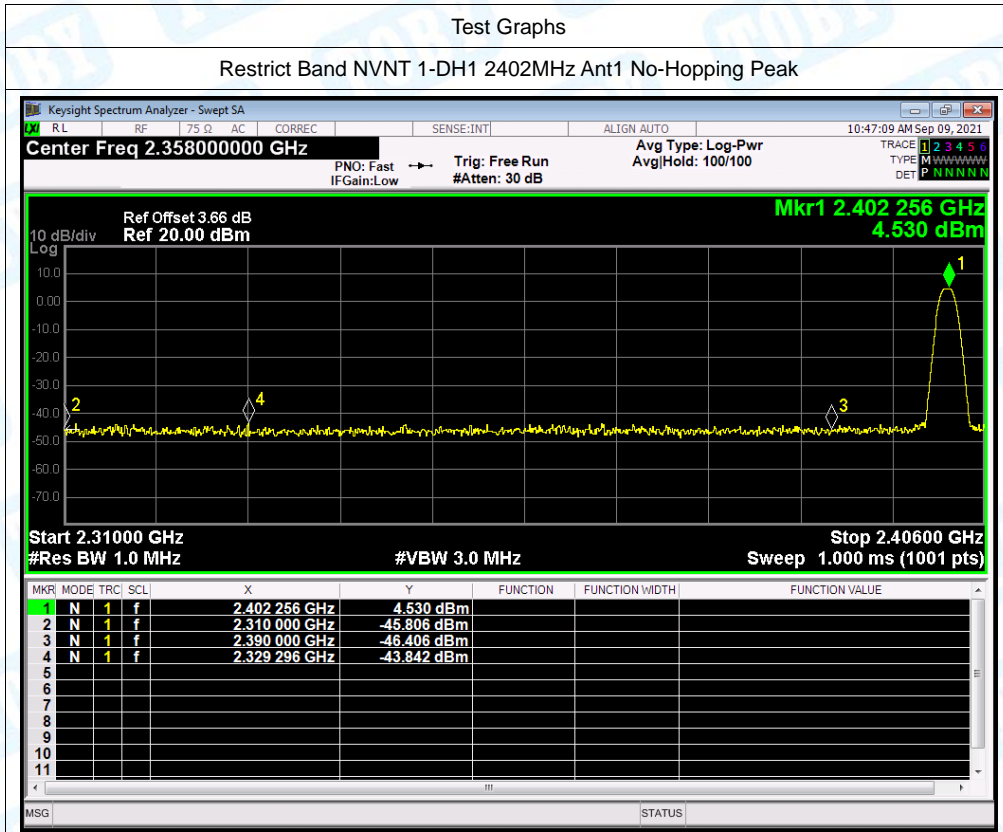




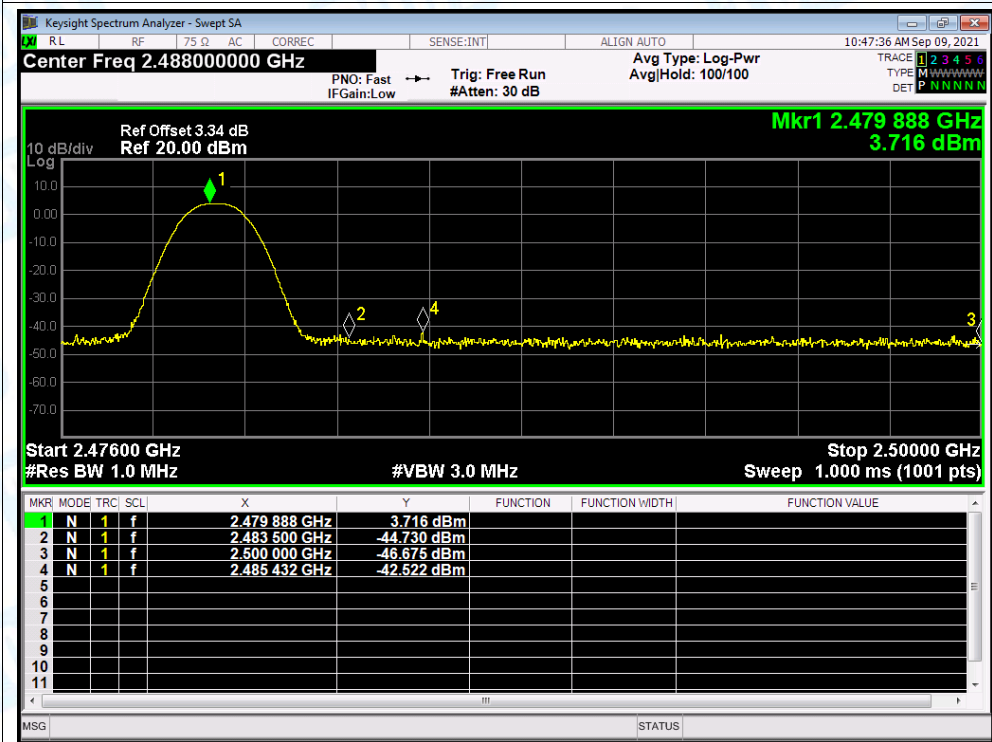


8.Restrict Band

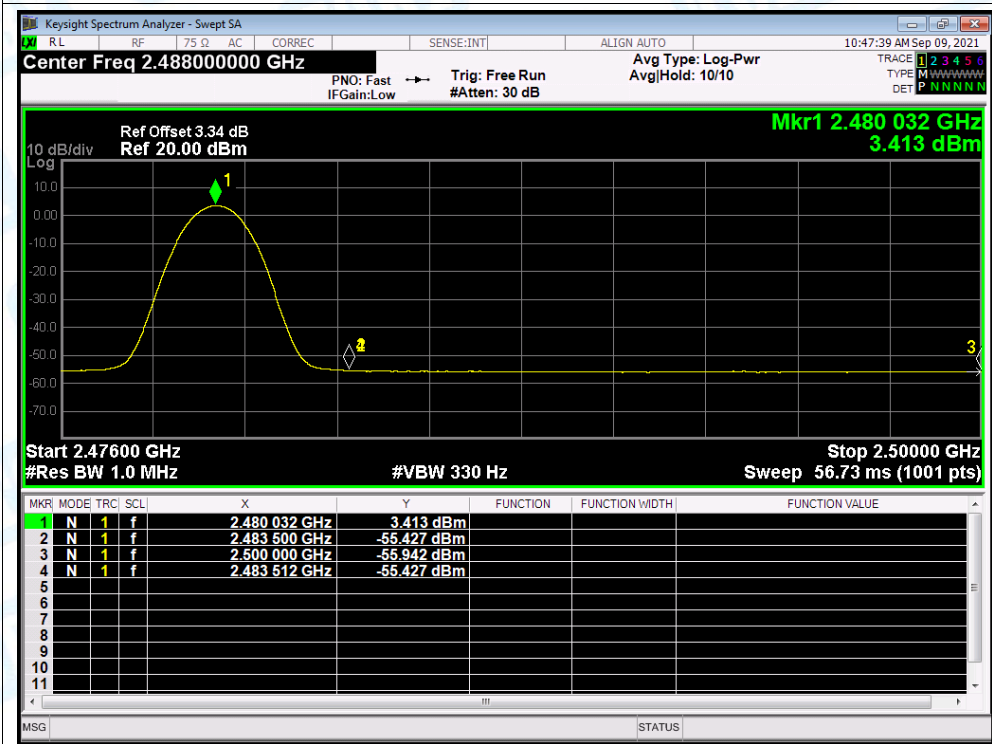
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBUV/m)	Detector	Limit (dBUV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-46.16	2	51.1	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.86	2	40.4	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2329.296	-43.84	2	53.42	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2362.032	-55.4	2	41.86	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.25	2	51.01	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.26	2	41	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-44.72	2	52.54	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.42	2	41.84	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.432	-42.52	2	54.74	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.512	-55.42	2	41.84	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.67	2	50.59	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.94	2	41.32	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-46.34	2	50.92	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.84	2	40.42	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2354.832	-43.76	2	53.5	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2362.128	-55.3	2	41.96	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-45.52	2	51.74	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.14	2	41.12	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-46.04	2	51.22	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.36	2	41.9	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2492.296	-43	2	54.26	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.656	-55.32	2	41.94	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-46.32	2	50.94	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.89	2	41.37	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.14	2	50.12	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.89	2	40.37	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2356.176	-43.11	2	54.15	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2362.32	-55.47	2	41.79	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-45.93	2	51.33	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.23	2	41.03	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-45.5	2	51.76	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.35	2	41.91	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2488.096	-42.47	2	54.79	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.56	-55.3	2	41.96	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.6	2	50.66	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.99	2	41.27	Average	54	Pass

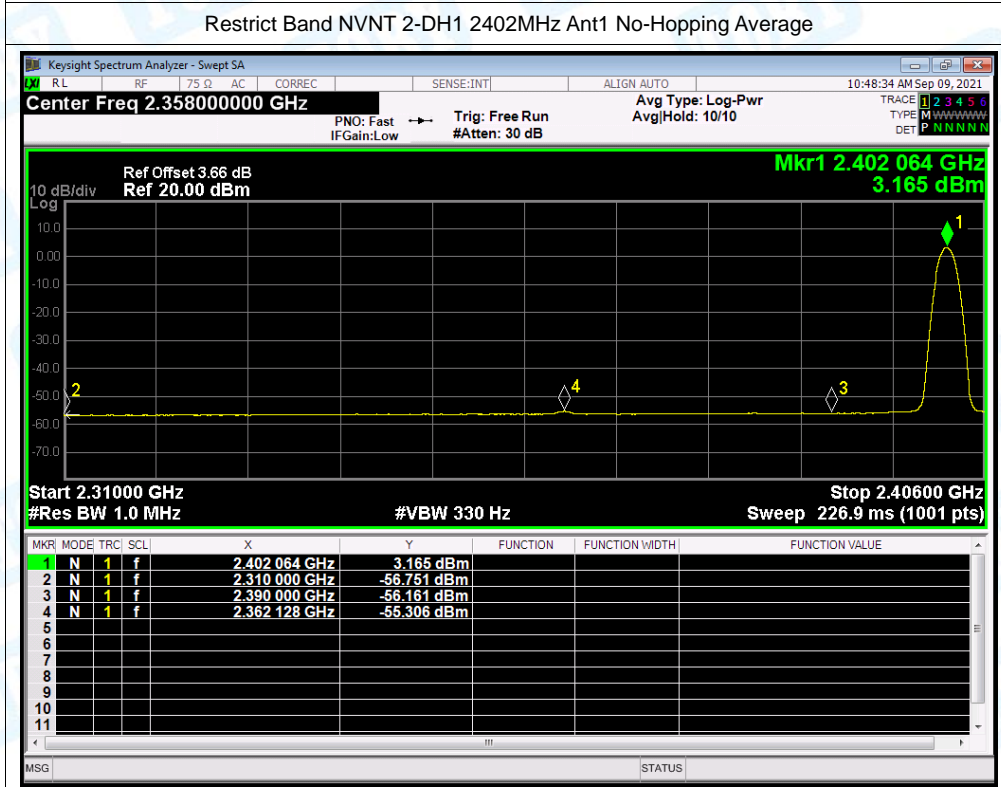
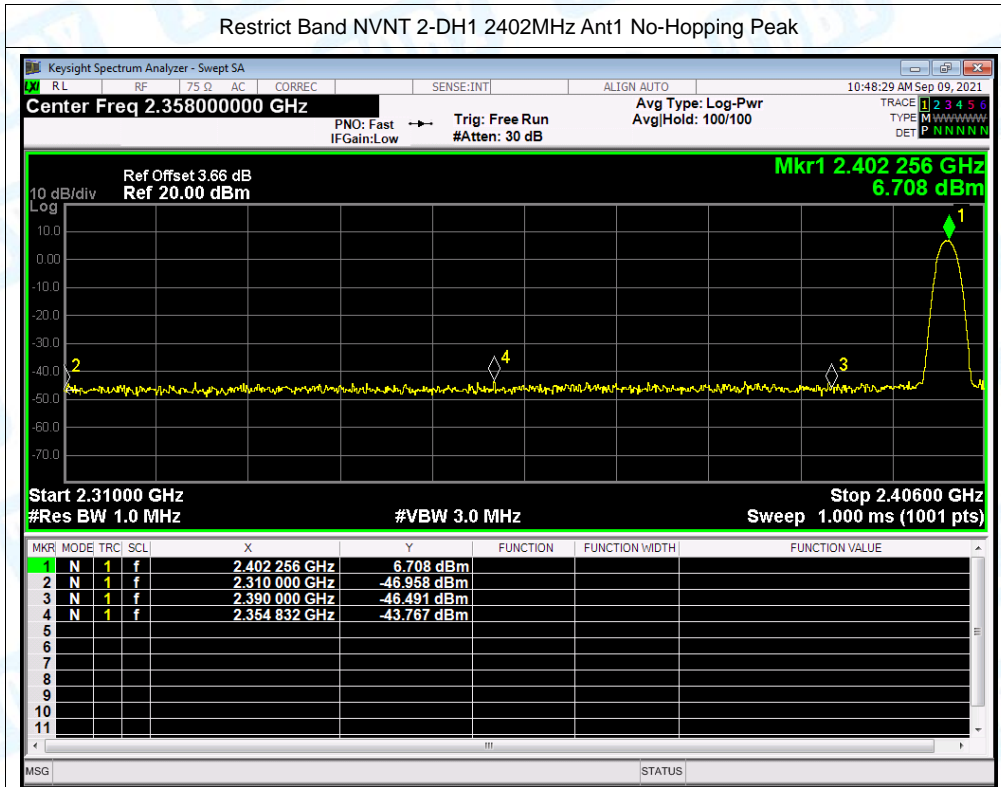


Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak

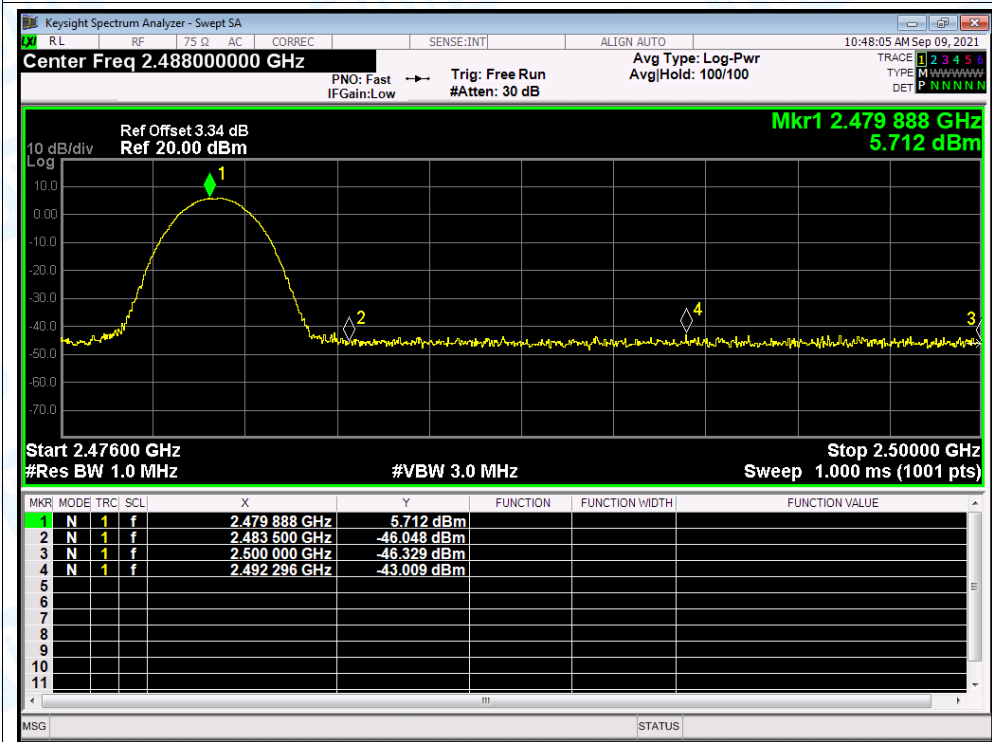


Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average

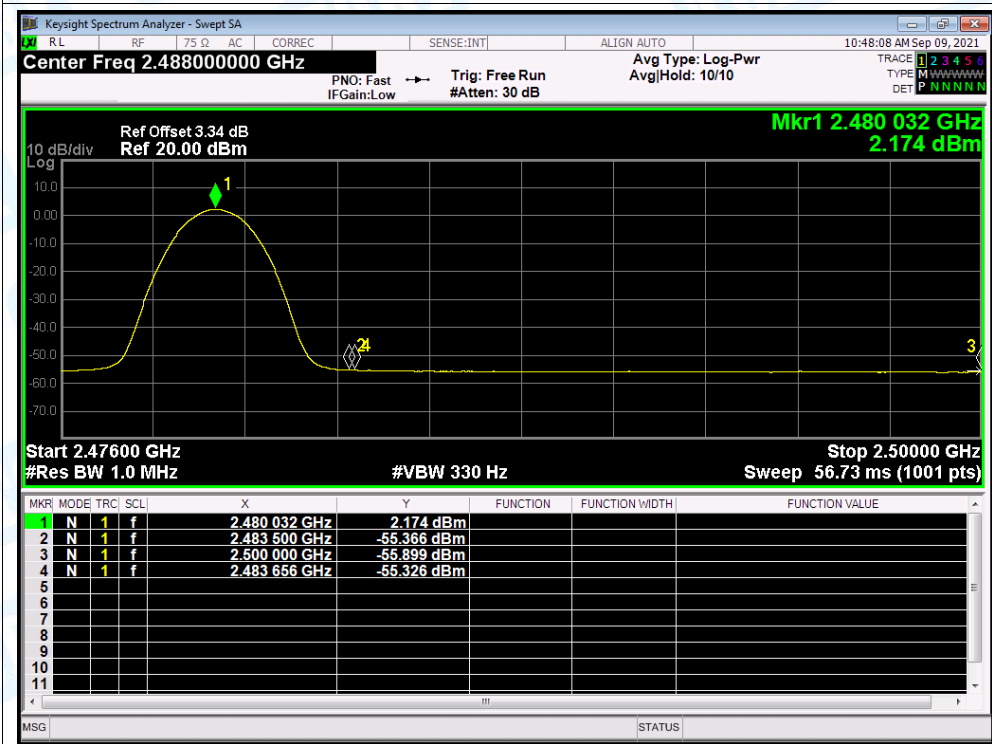


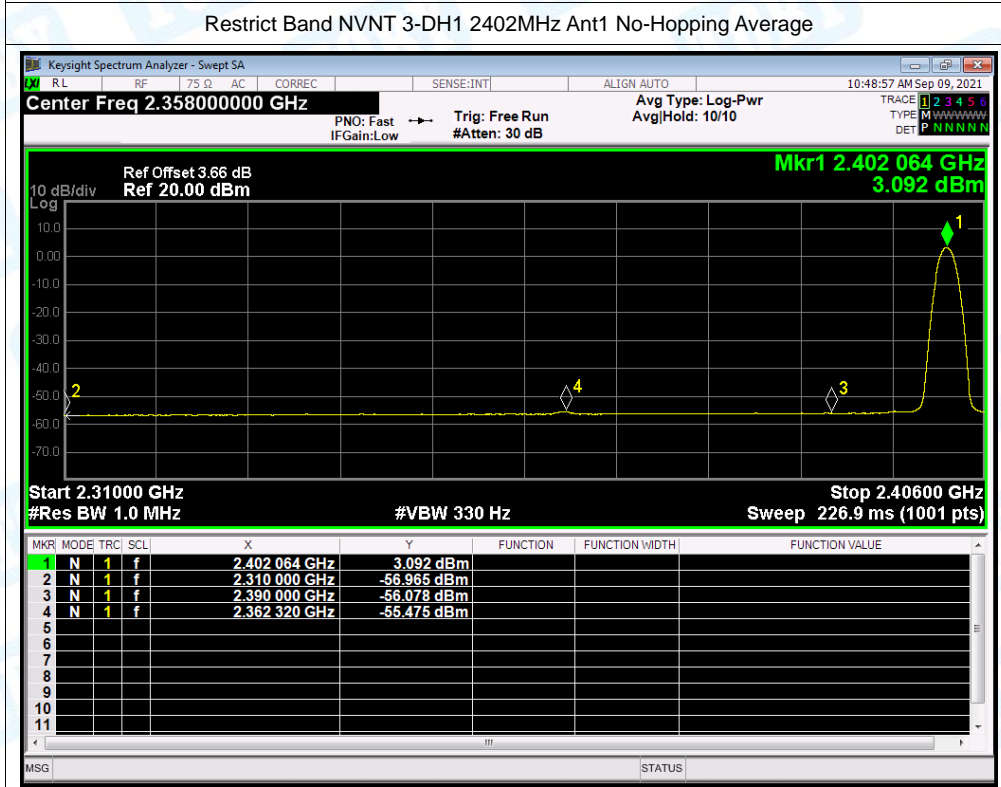
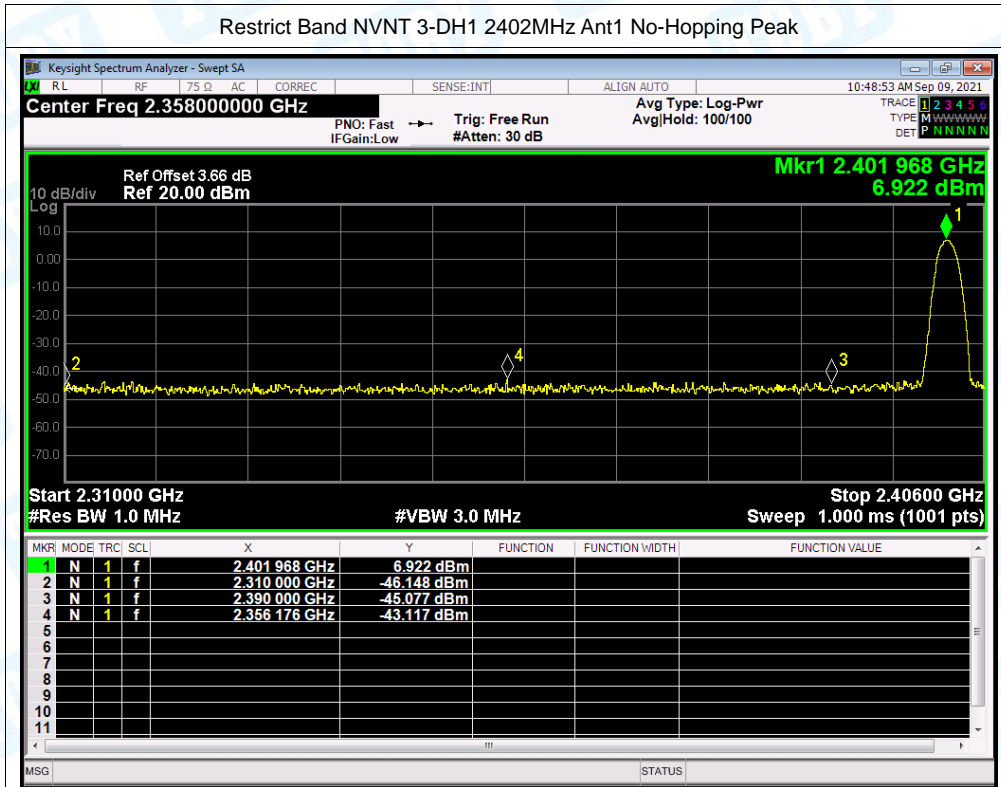


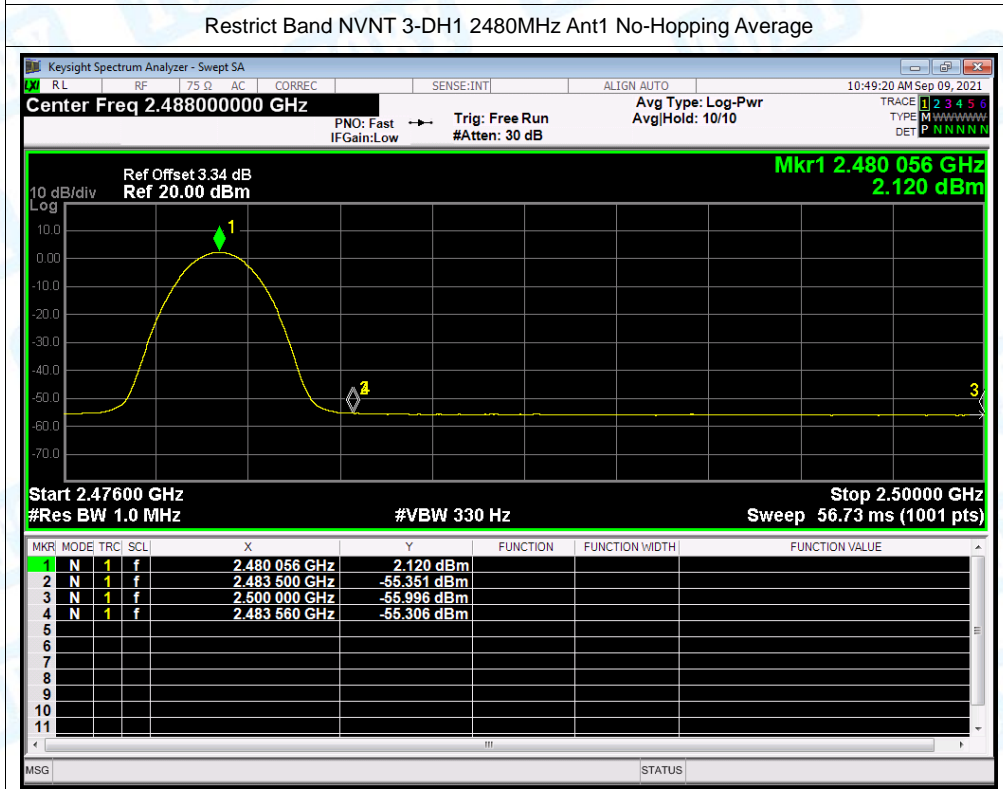
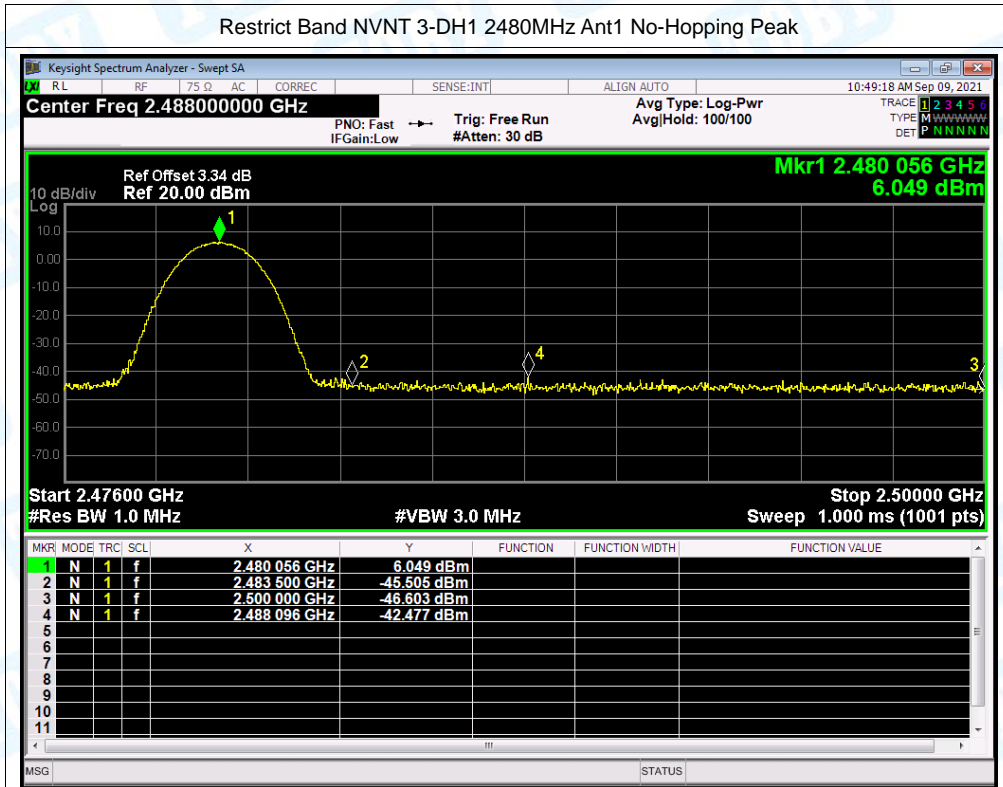
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average







9.Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.642	262.72	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.894	308.693	31600	400	Pass

