Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: PINETAB2

Test Model: PINETAB2

Environmental Conditions

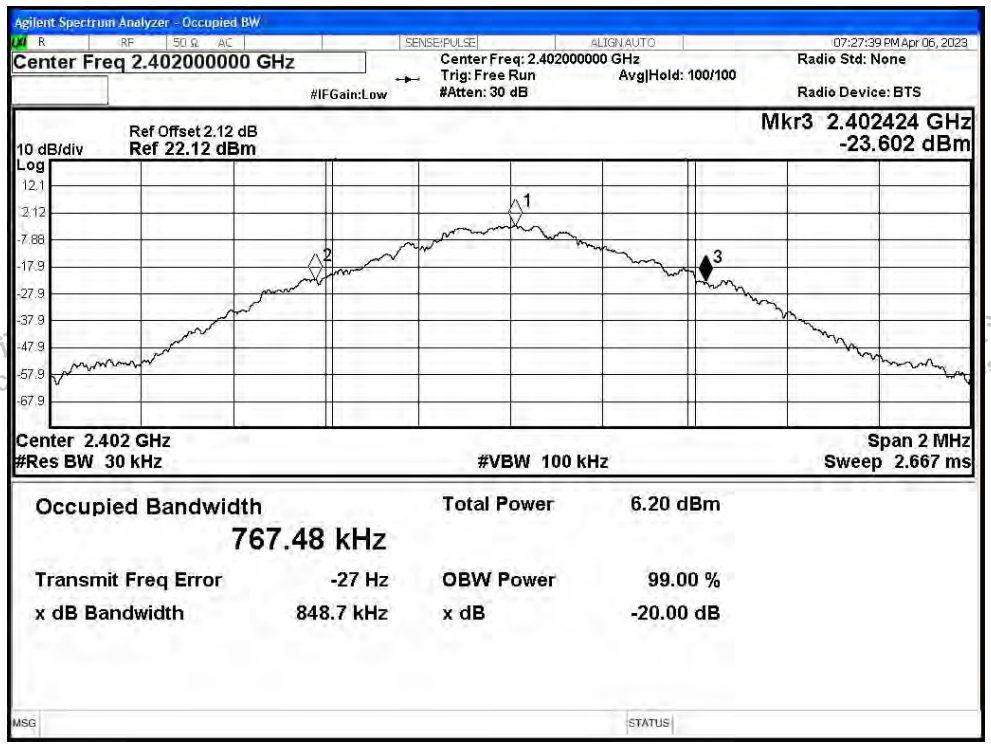
Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu

A.1 -20dB Bandwidth

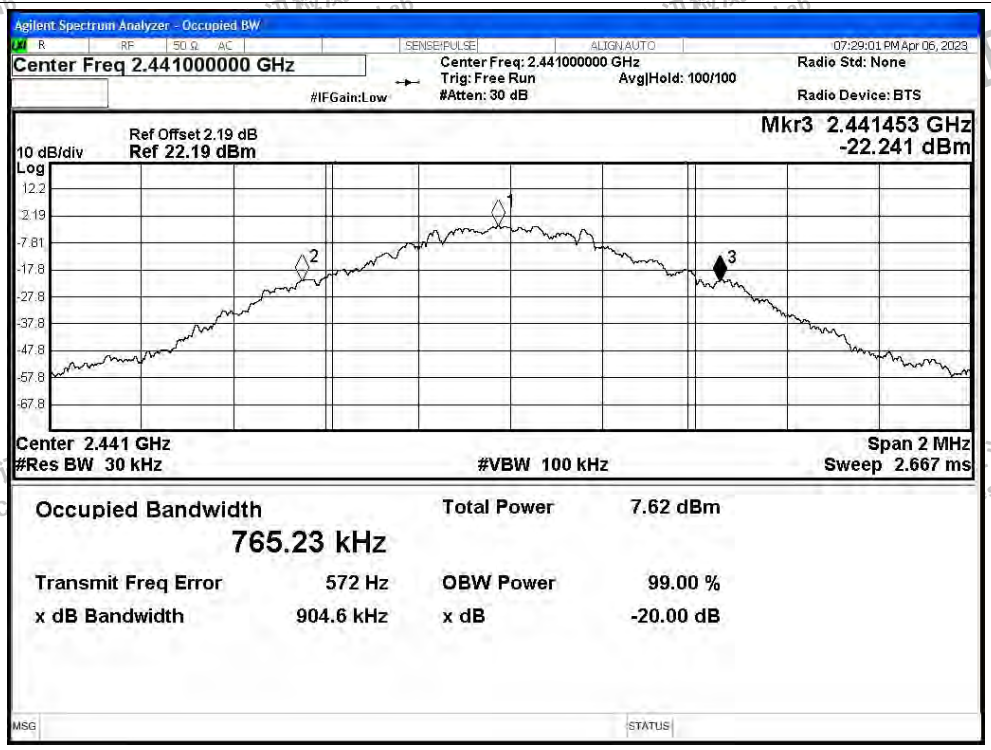
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVLT	1-DH5	2402	Ant1	0.849	N/A	Pass
NVLT	1-DH5	2441	Ant1	0.905	N/A	Pass
NVLT	1-DH5	2480	Ant1	0.852	N/A	Pass
NVLT	2-DH5	2402	Ant1	1.281	N/A	Pass
NVLT	2-DH5	2441	Ant1	1.306	N/A	Pass
NVLT	2-DH5	2480	Ant1	1.31	N/A	Pass
NVLT	3-DH5	2402	Ant1	1.304	N/A	Pass
NVLT	3-DH5	2441	Ant1	1.276	N/A	Pass
NVLT	3-DH5	2480	Ant1	1.297	N/A	Pass

Test Graphs

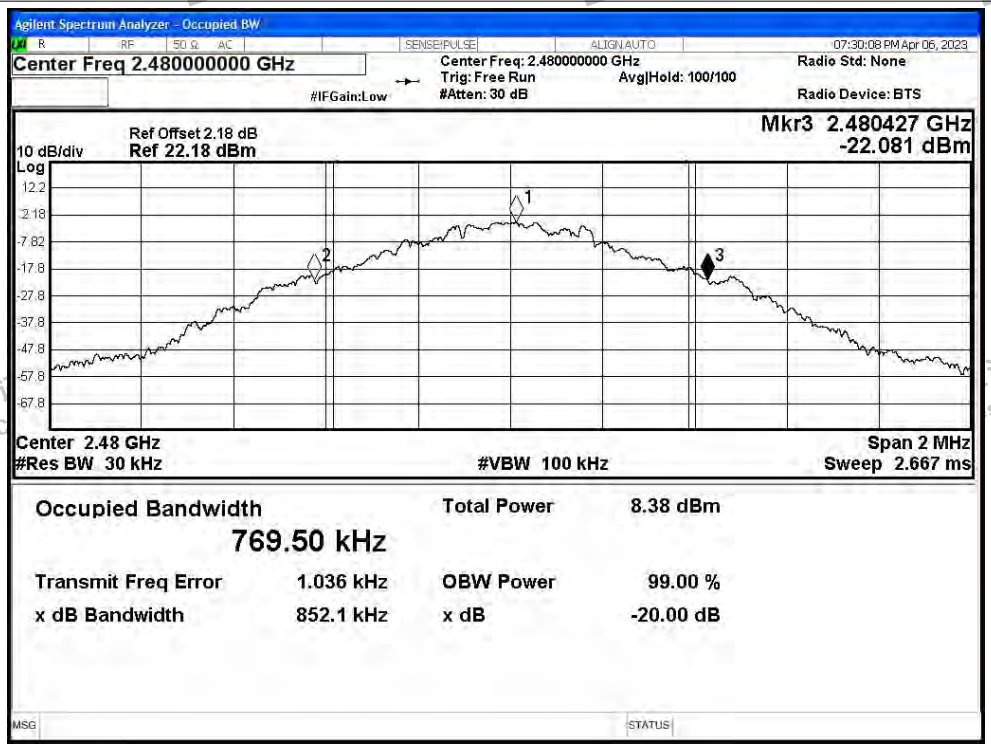
-20dB Bandwidth NVLT 1-DH5 2402MHz Ant1



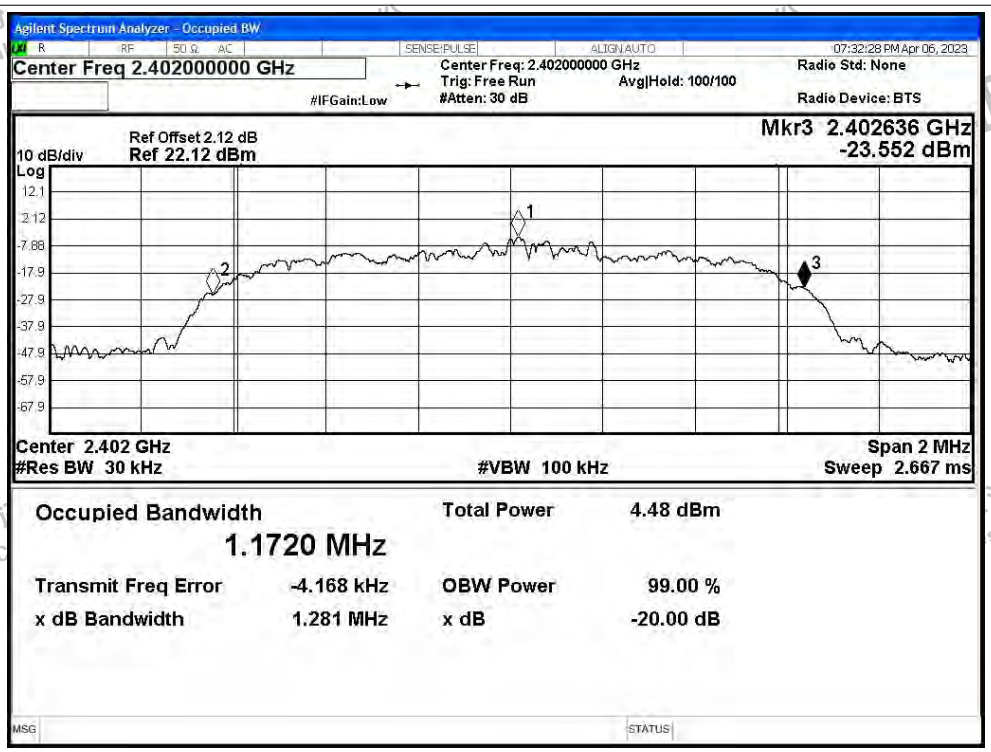
-20dB Bandwidth NVLT 1-DH5 2441MHz Ant1



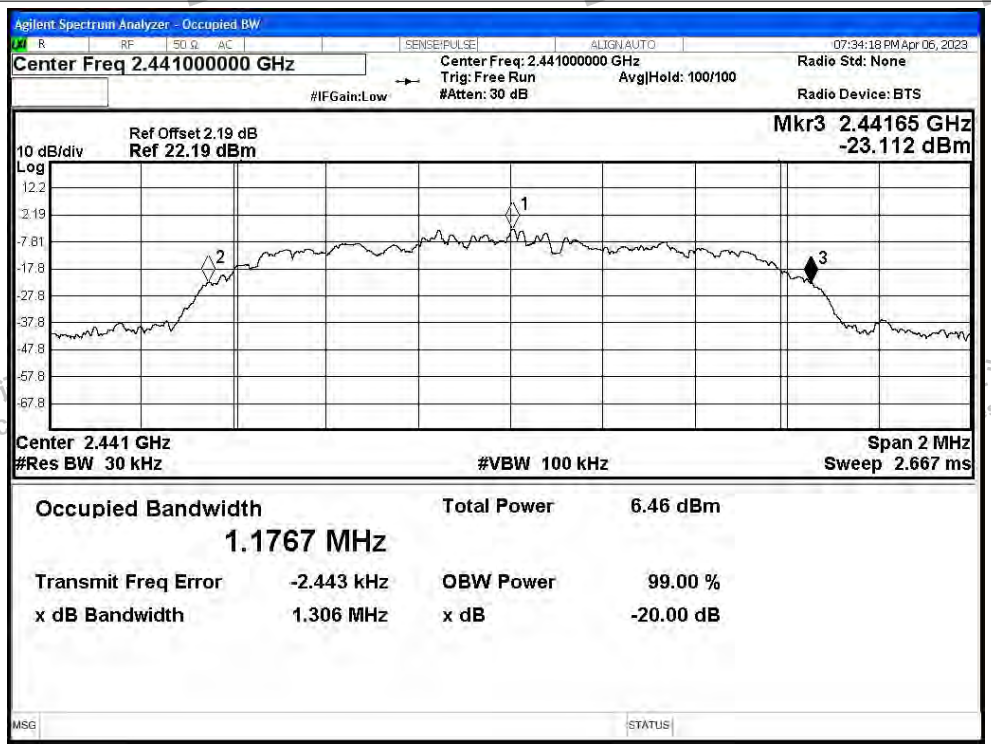
-20dB Bandwidth NVLT 1-DH5 2480MHz Ant1



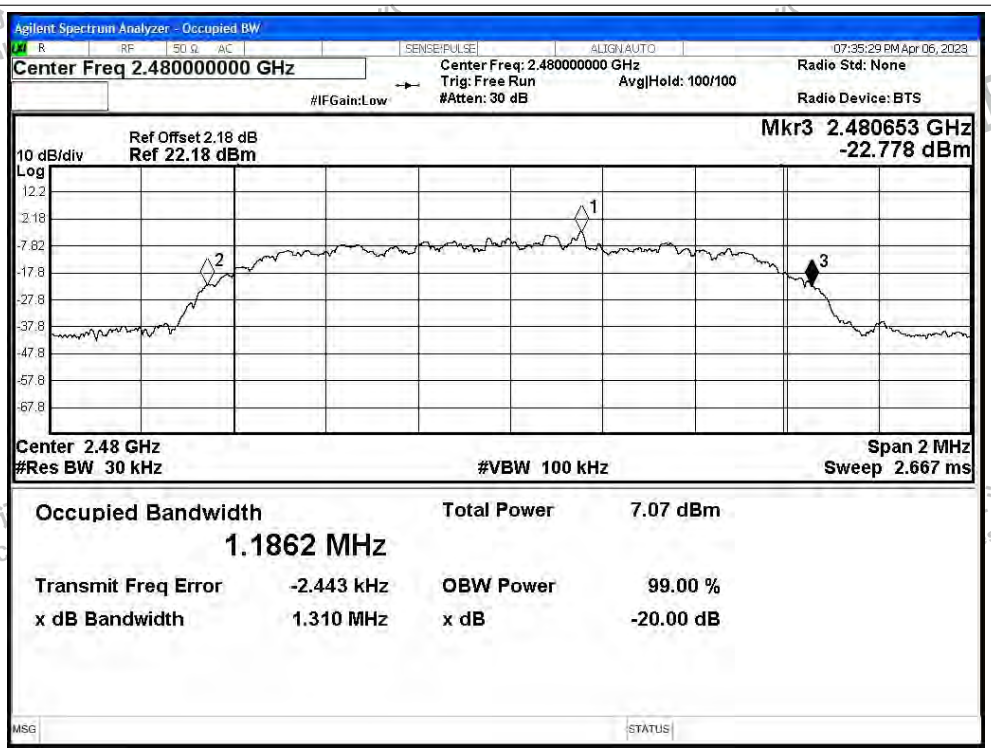
-20dB Bandwidth NVLT 2-DH5 2402MHz Ant1



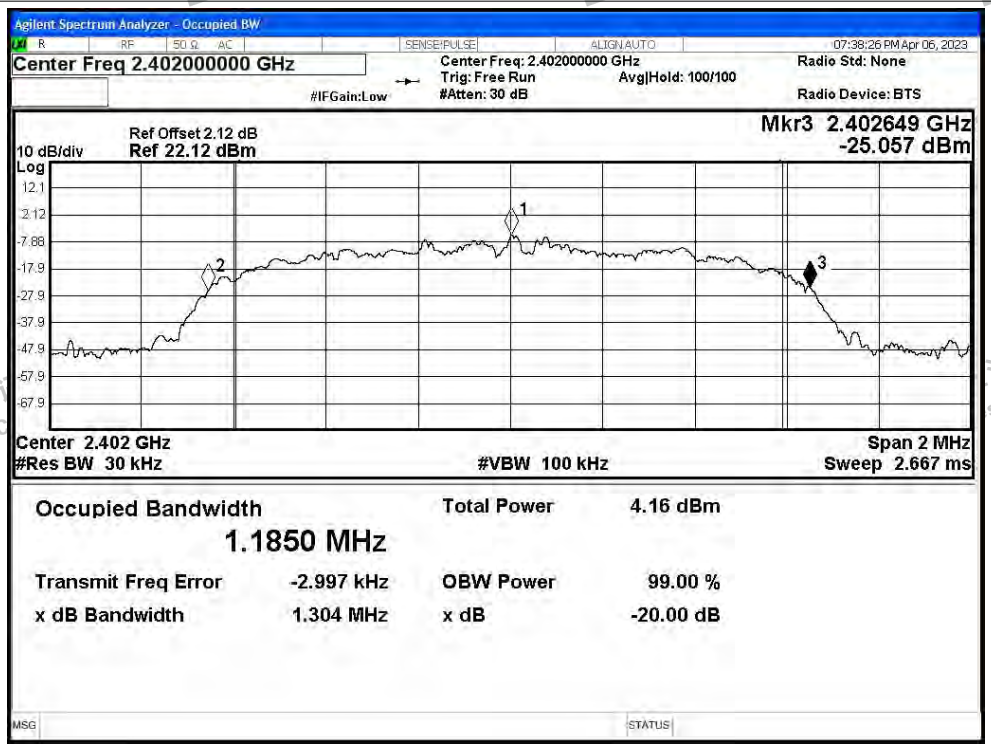
-20dB Bandwidth NVLT 2-DH5 2441MHz Ant1



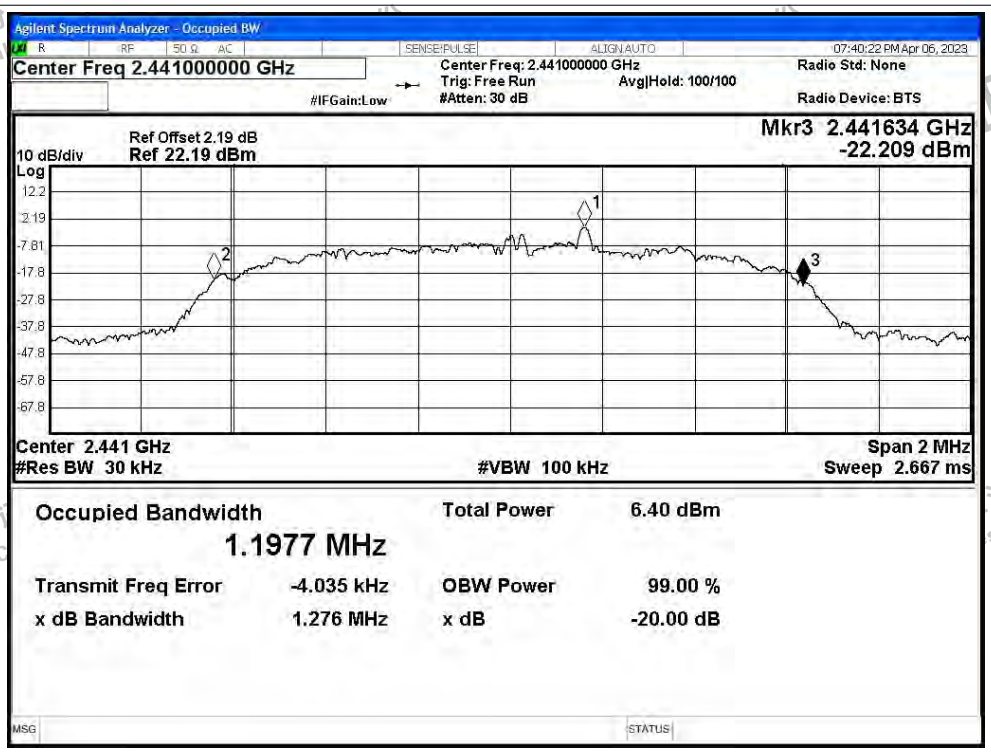
-20dB Bandwidth NVLT 2-DH5 2480MHz Ant1



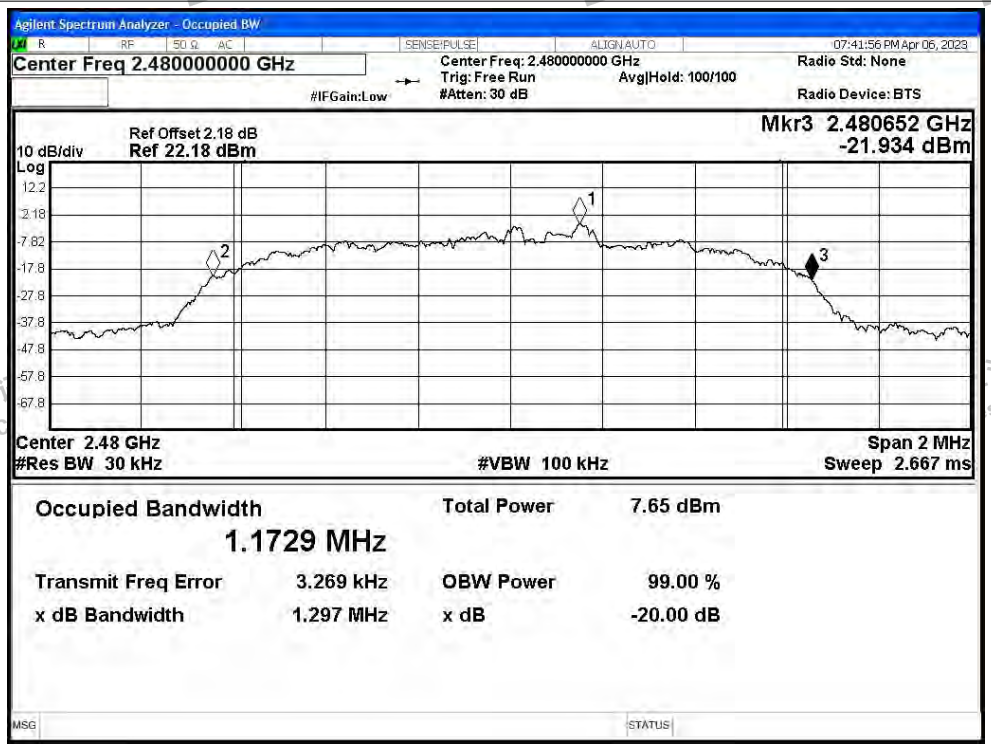
-20dB Bandwidth NVLT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVLT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVLT 3-DH5 2480MHz Ant1

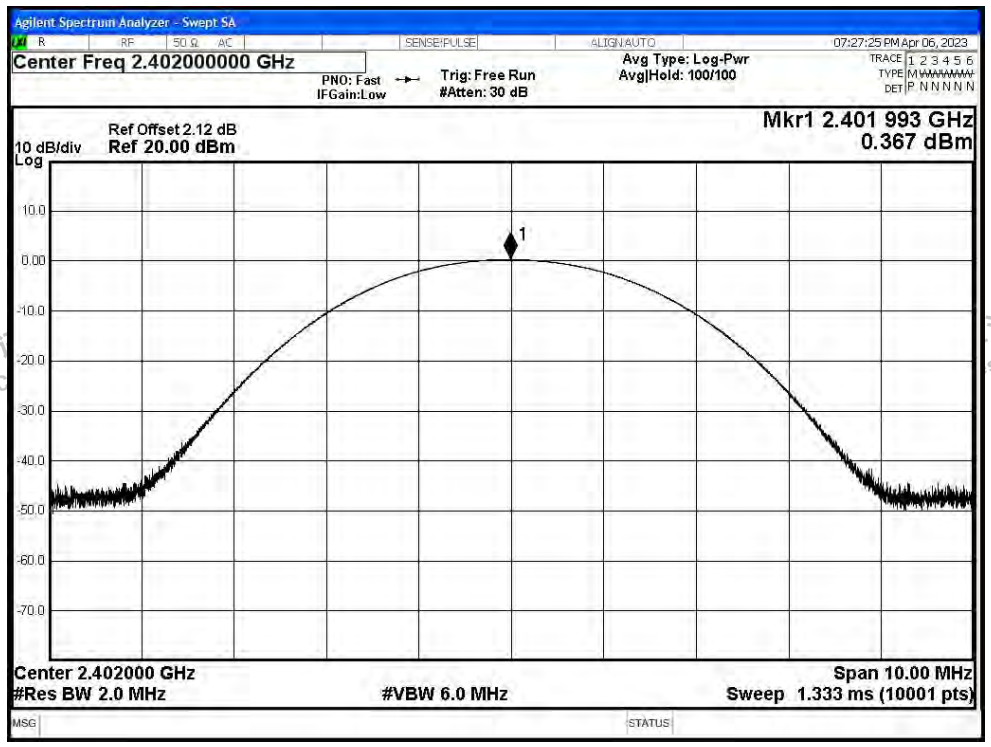


A.2 Maximum Conducted Output Power

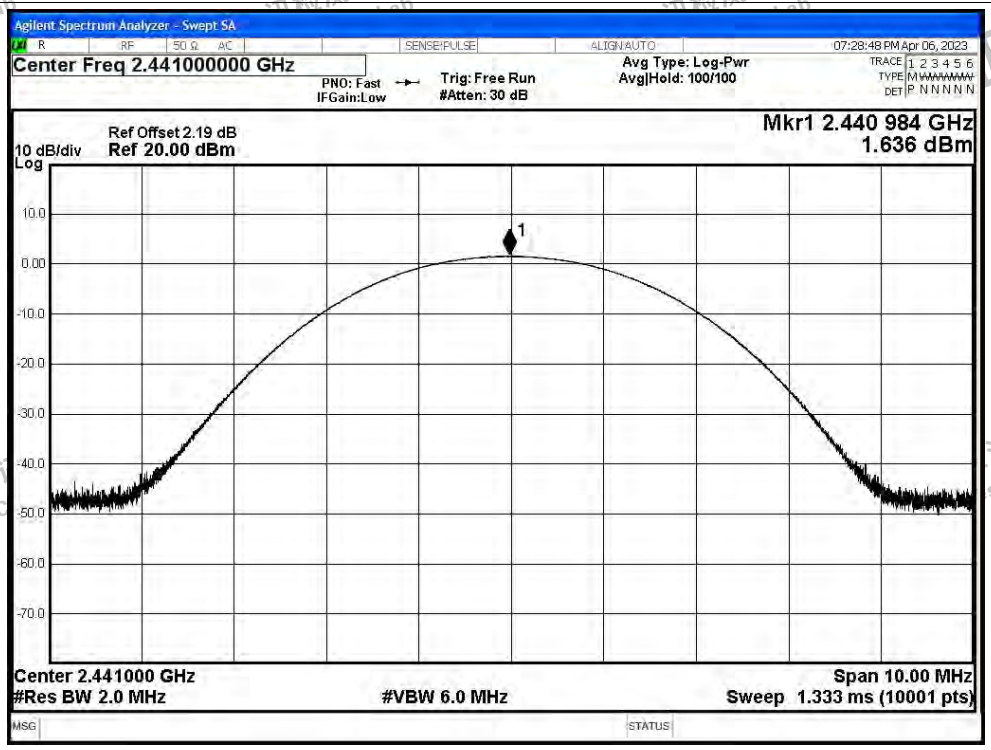
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVLT	1-DH5	2402	Ant1	0.37	21	Pass
NVLT	1-DH5	2441	Ant1	1.64	21	Pass
NVLT	1-DH5	2480	Ant1	2.61	21	Pass
NVLT	2-DH5	2402	Ant1	-0.18	21	Pass
NVLT	2-DH5	2441	Ant1	1.61	21	Pass
NVLT	2-DH5	2480	Ant1	2.69	21	Pass
NVLT	3-DH5	2402	Ant1	-0.24	21	Pass
NVLT	3-DH5	2441	Ant1	1.72	21	Pass
NVLT	3-DH5	2480	Ant1	2.71	21	Pass

Test Graphs

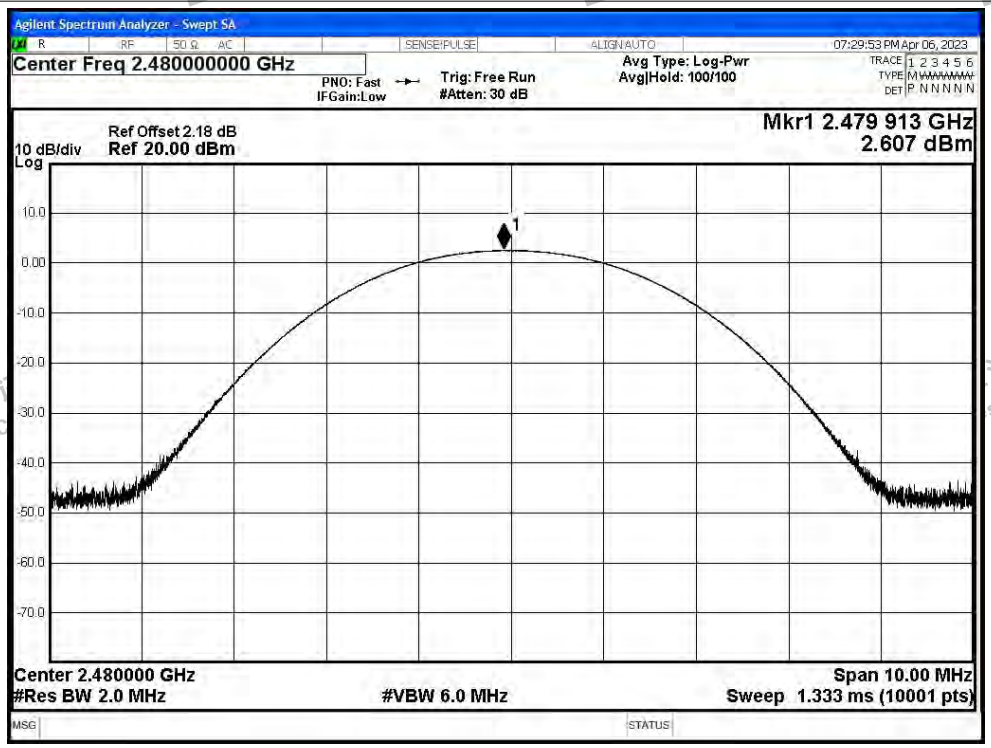
Power NVLT 1-DH5 2402MHz Ant1



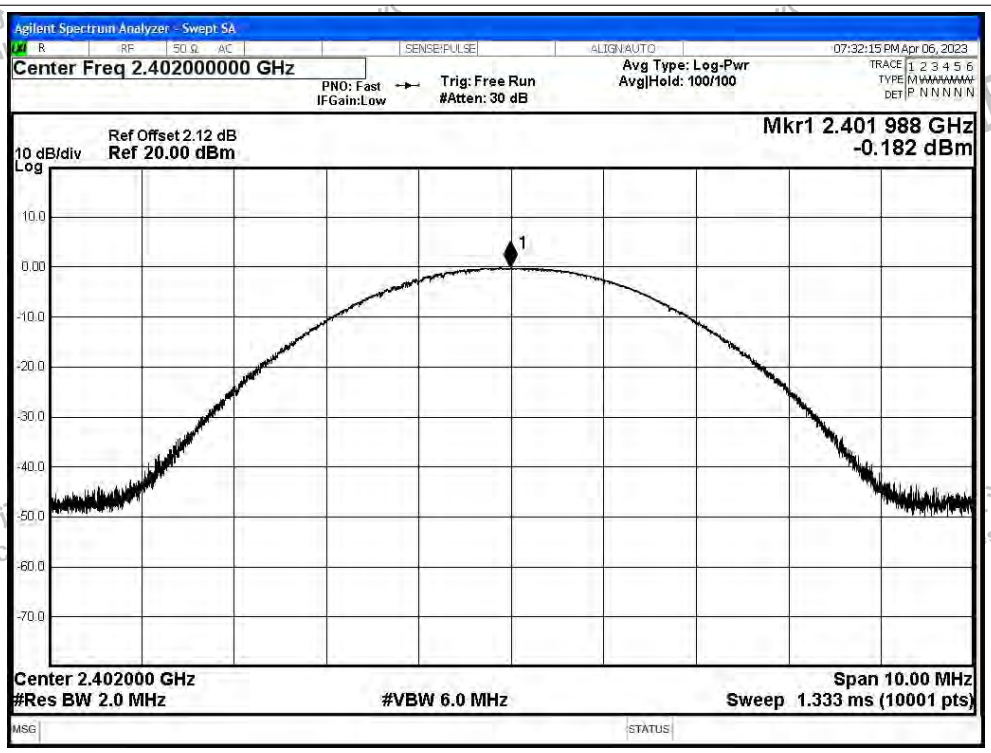
Power NVLT 1-DH5 2441MHz Ant1



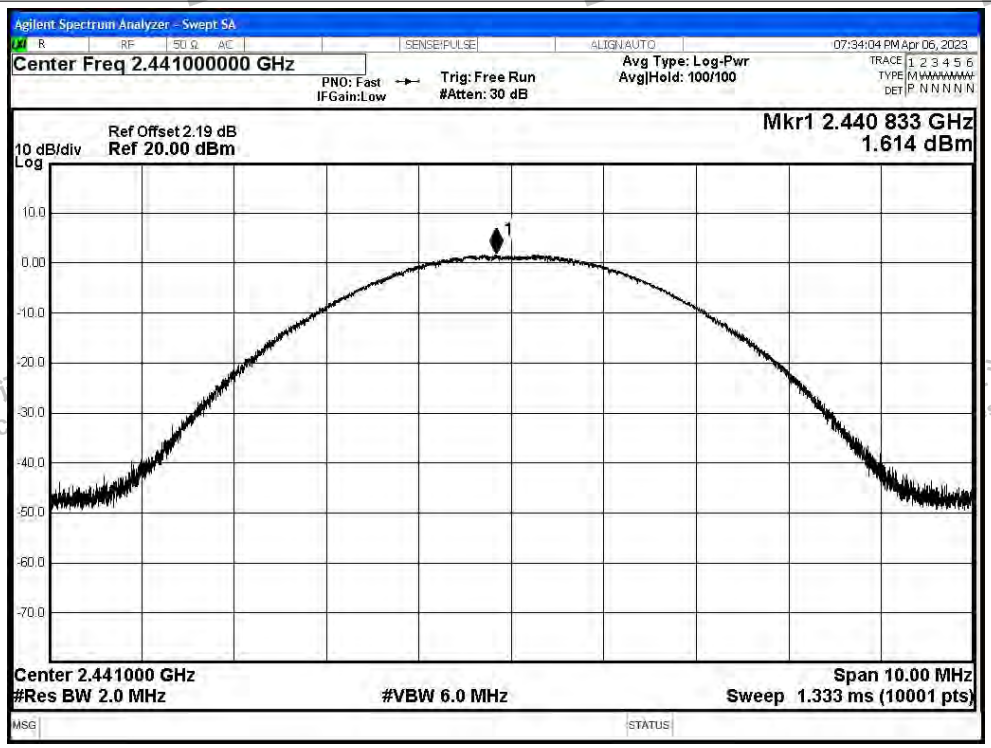
Power NVLT 1-DH5 2480MHz Ant1



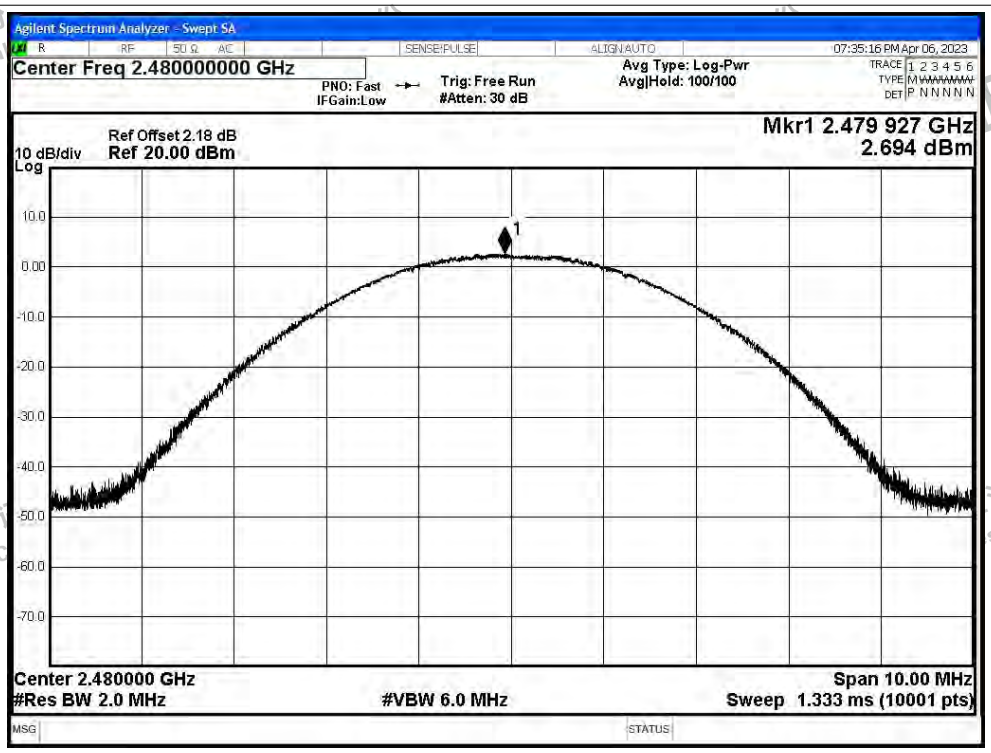
Power NVLT 2-DH5 2402MHz Ant1



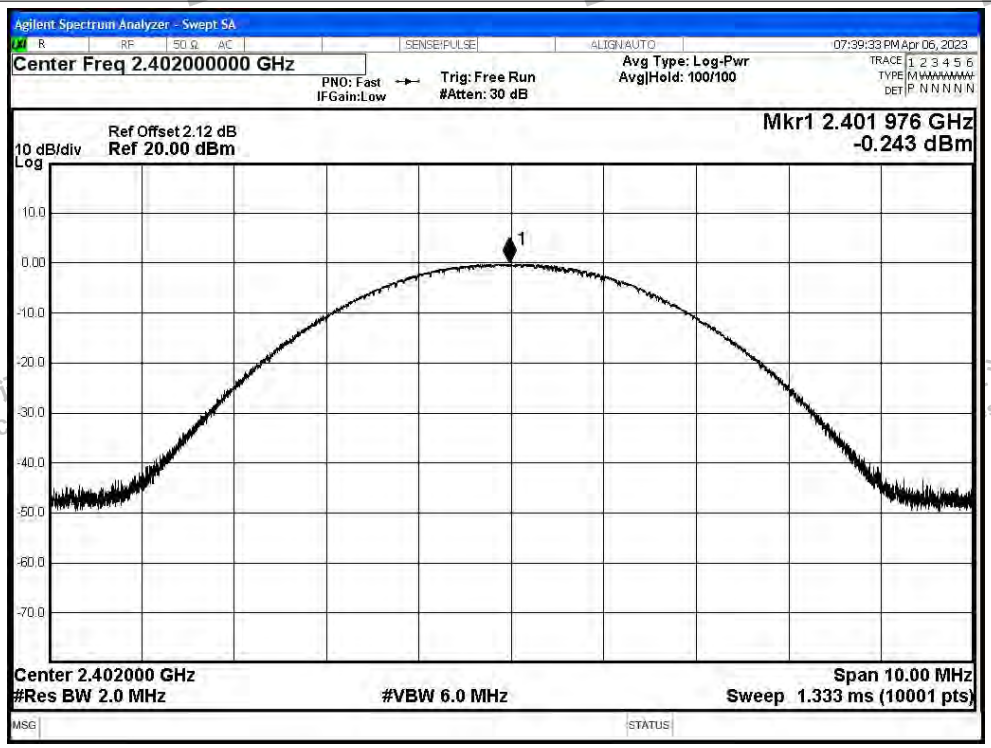
Power NVLT 2-DH5 2441MHz Ant1



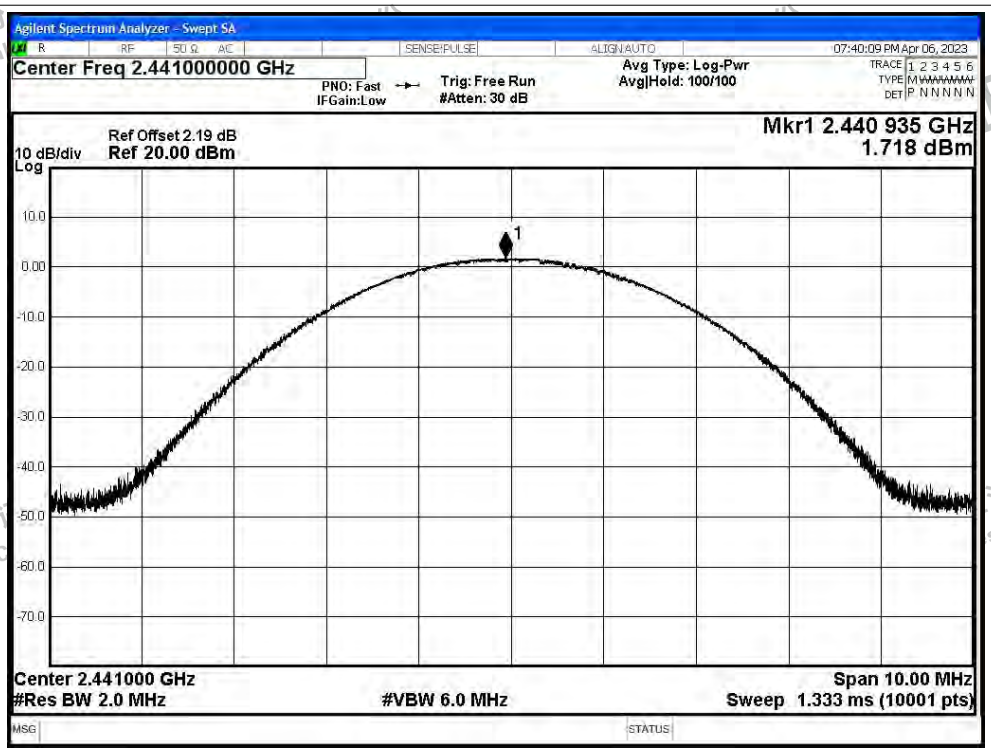
Power NVLT 2-DH5 2480MHz Ant1



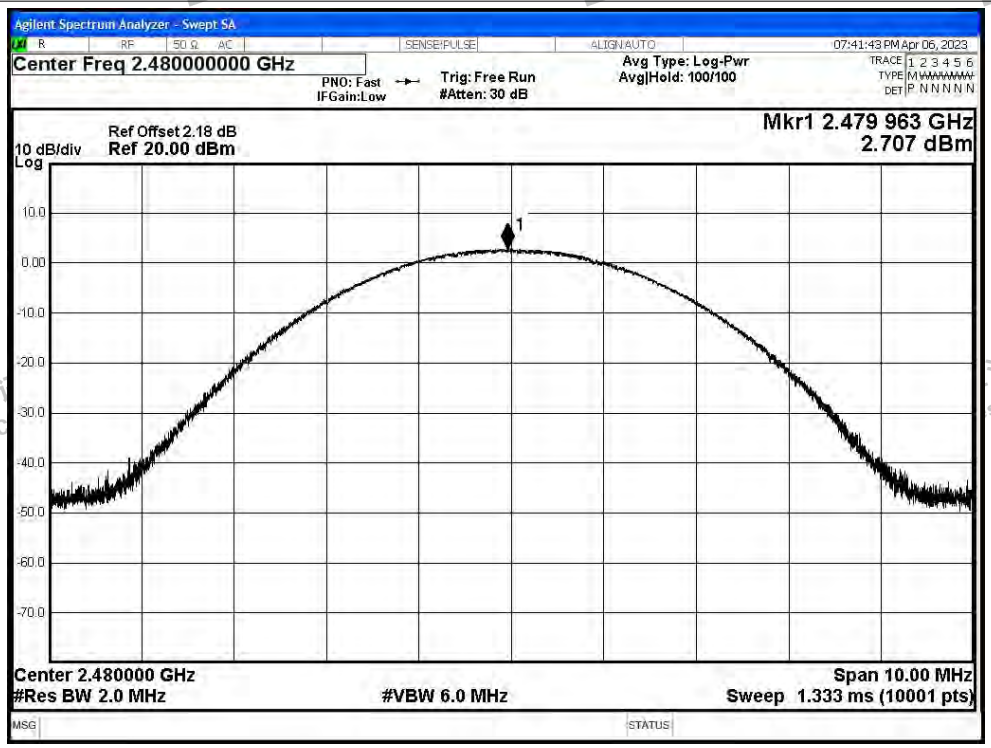
Power NVLT 3-DH5 2402MHz Ant1



Power NVLT 3-DH5 2441MHz Ant1



Power NVLT 3-DH5 2480MHz Ant1



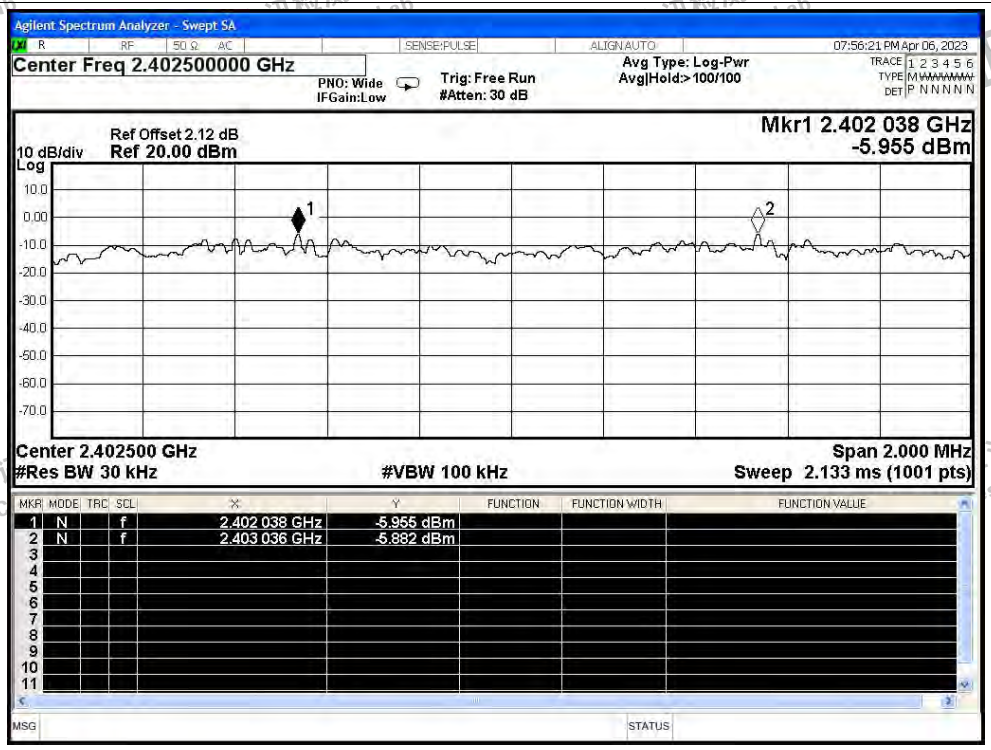
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVLT	1-DH5	Ant1	2401.966	2403.014	1.048	0.603	Pass
NVLT	2-DH5	Ant1	2402.038	2403.036	0.998	0.873	Pass
NVLT	3-DH5	Ant1	2402.156	2403.152	0.996	0.869	Pass

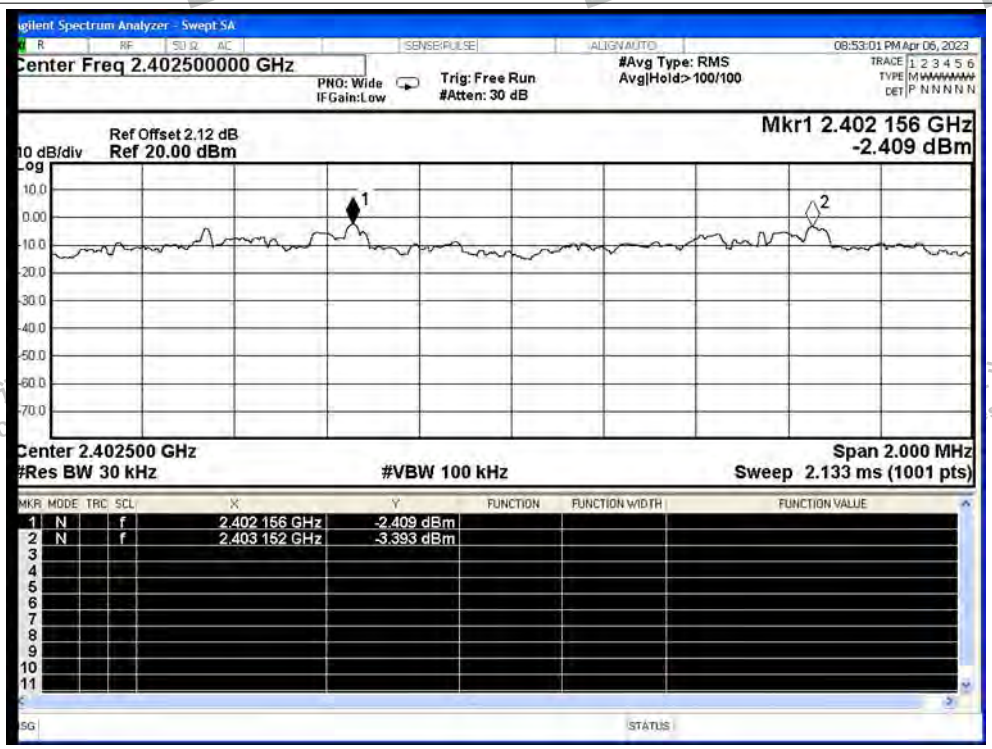
Test Graphs

CFS NVLT 1-DH5 2402MHz Ant1

CFS NVLT 2-DH5 2402MHz Ant1



CFS NVLT 3-DH5 2402MHz Ant1

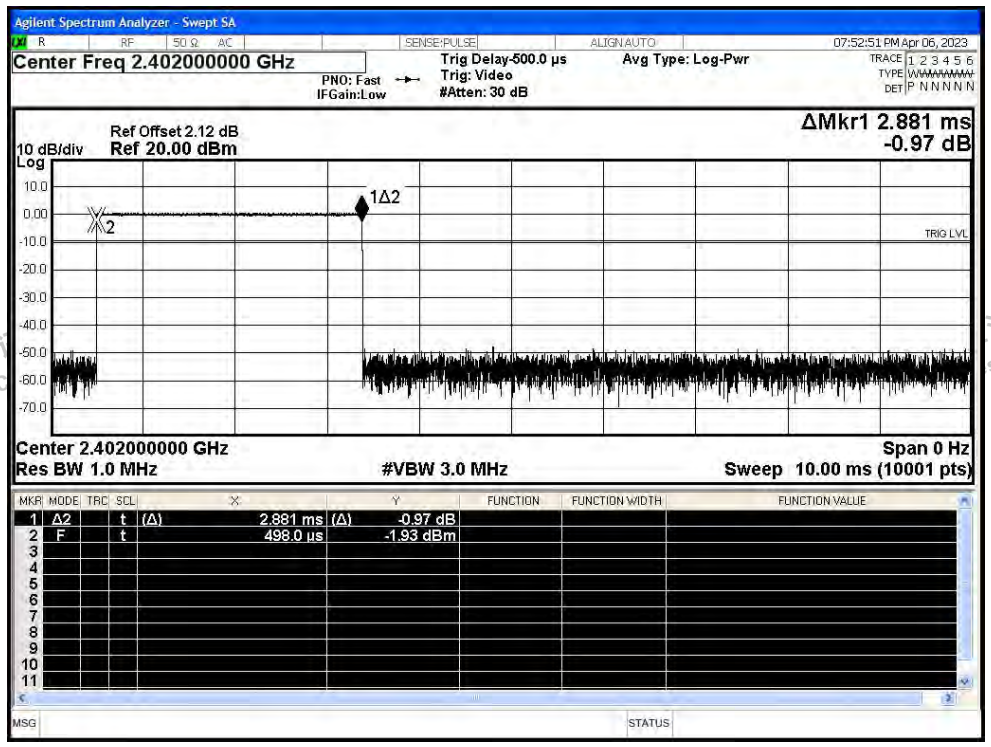


A.4 Dwell Time

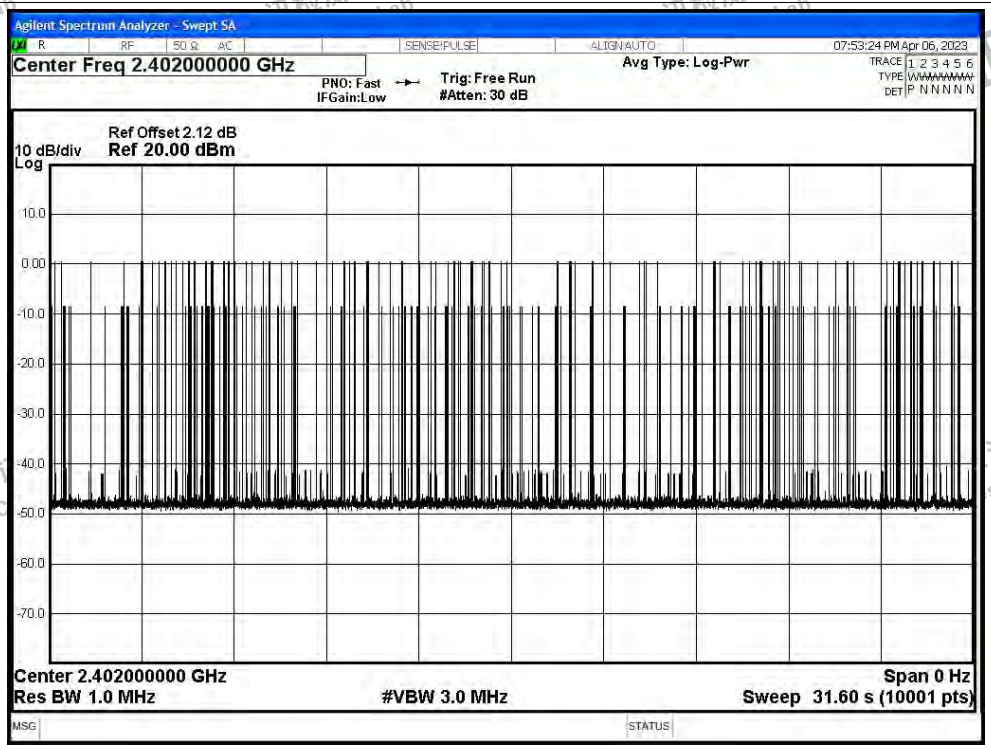
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVLT	1-DH5	2402	Ant1	2.881	305.386	106	31600	400	Pass
NVLT	2-DH5	2402	Ant1	2.88	308.16	107	31600	400	Pass
NVLT	3-DH5	2402	Ant1	2.887	329.118	114	31600	400	Pass

Test Graphs

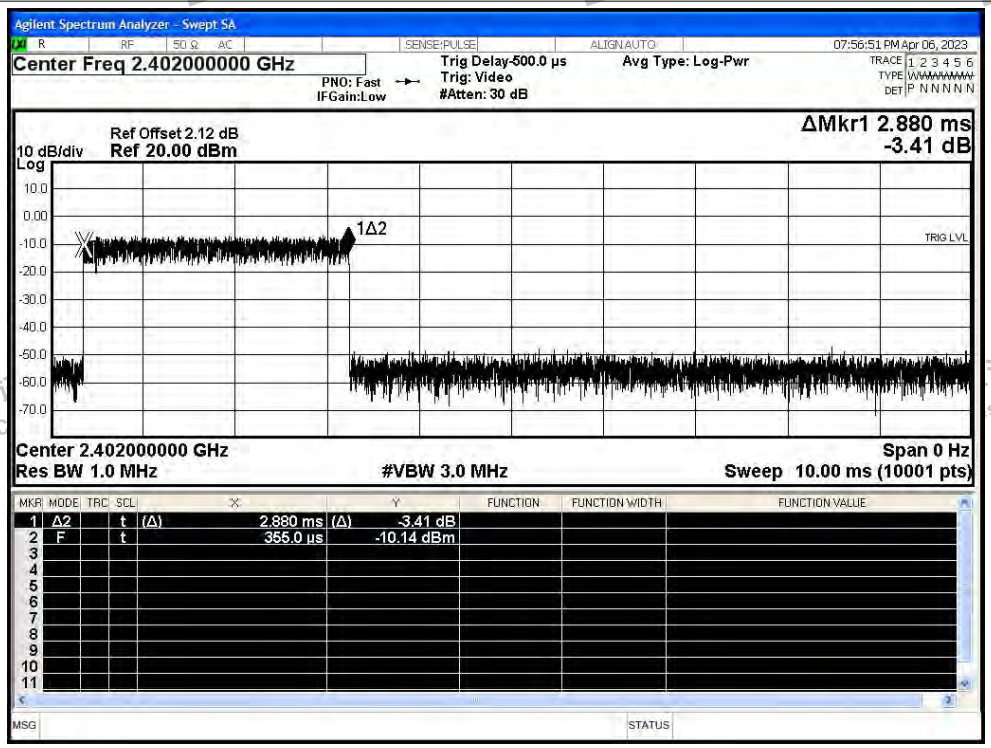
Dwell NVLT 1-DH5 2402MHz Ant1 One Burst



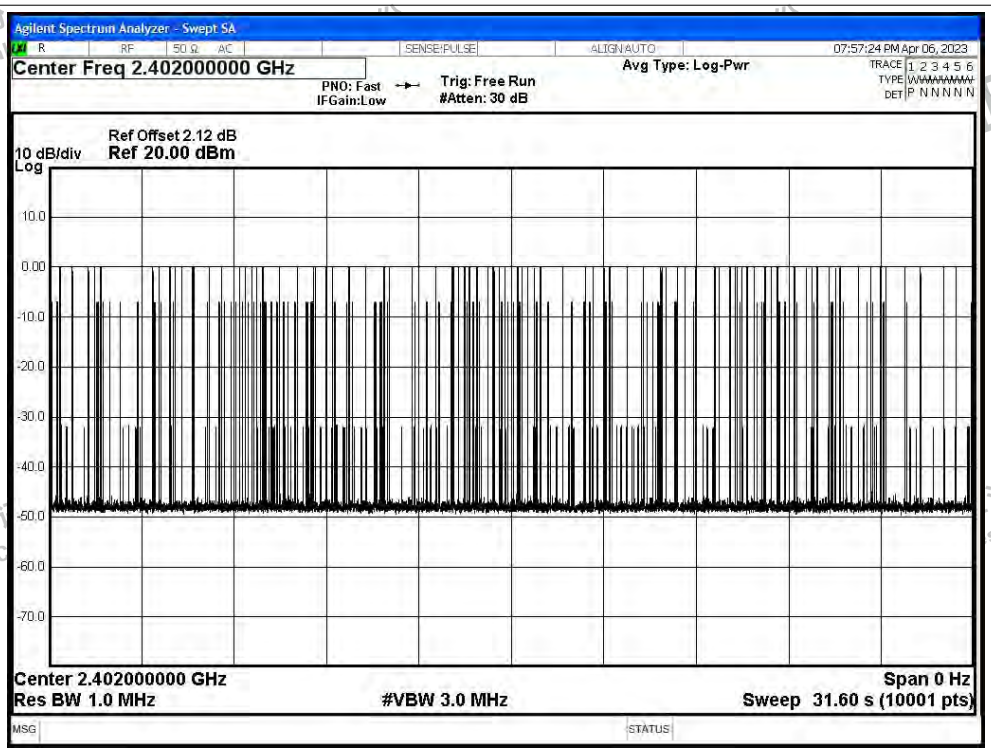
Dwell NVLT 1-DH5 2402MHz Ant1 Accumulated



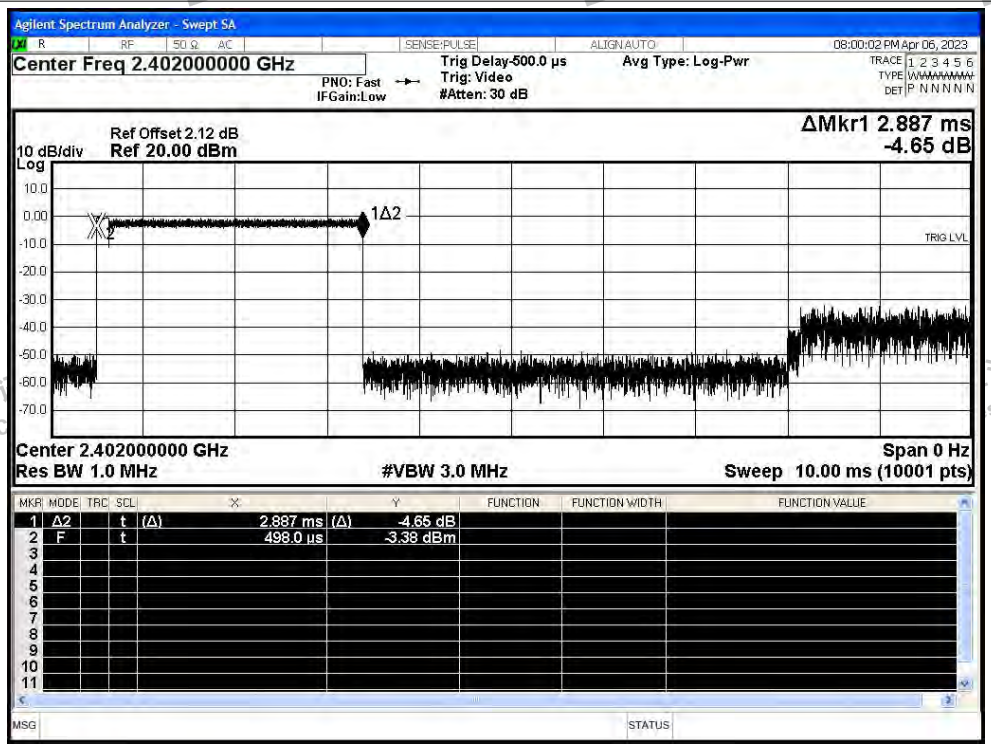
Dwell NVLT 2-DH5 2402MHz Ant1 One Burst



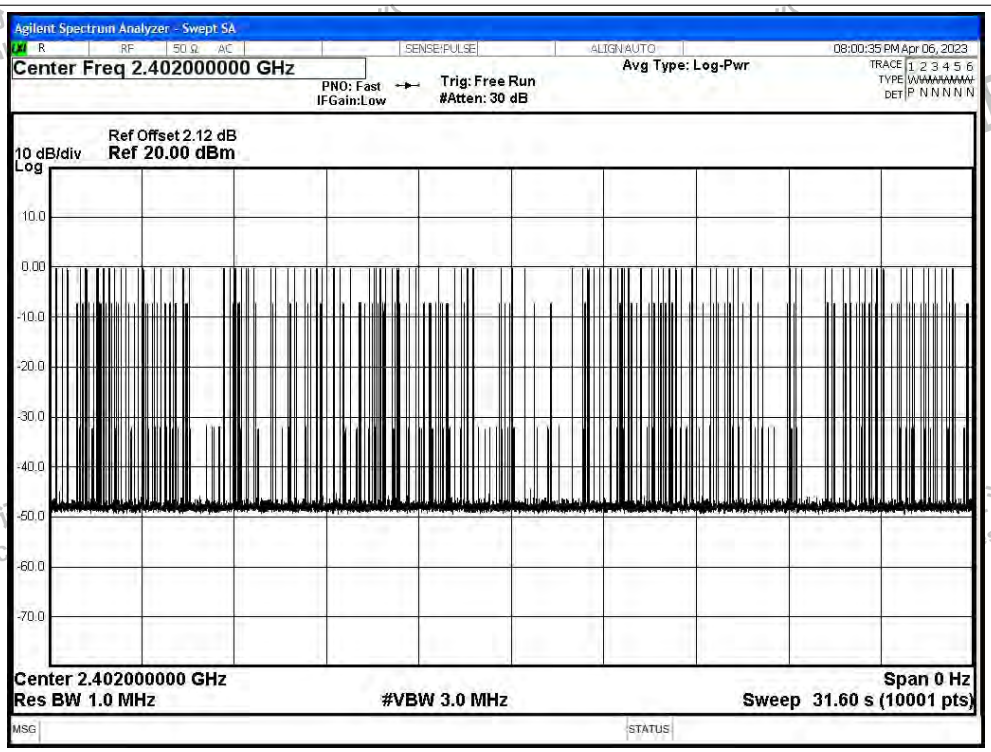
Dwell NVLT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVLT 3-DH5 2402MHz Ant1 One Burst



Dwell NVLT 3-DH5 2402MHz Ant1 Accumulated

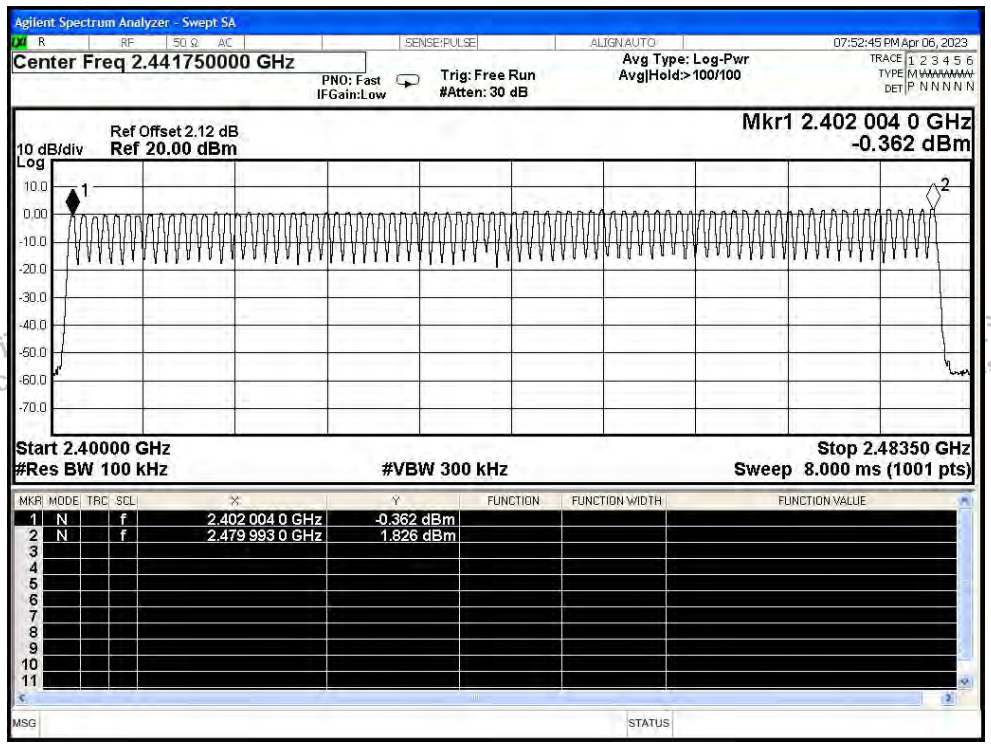


A.5 Number of Hopping Channel

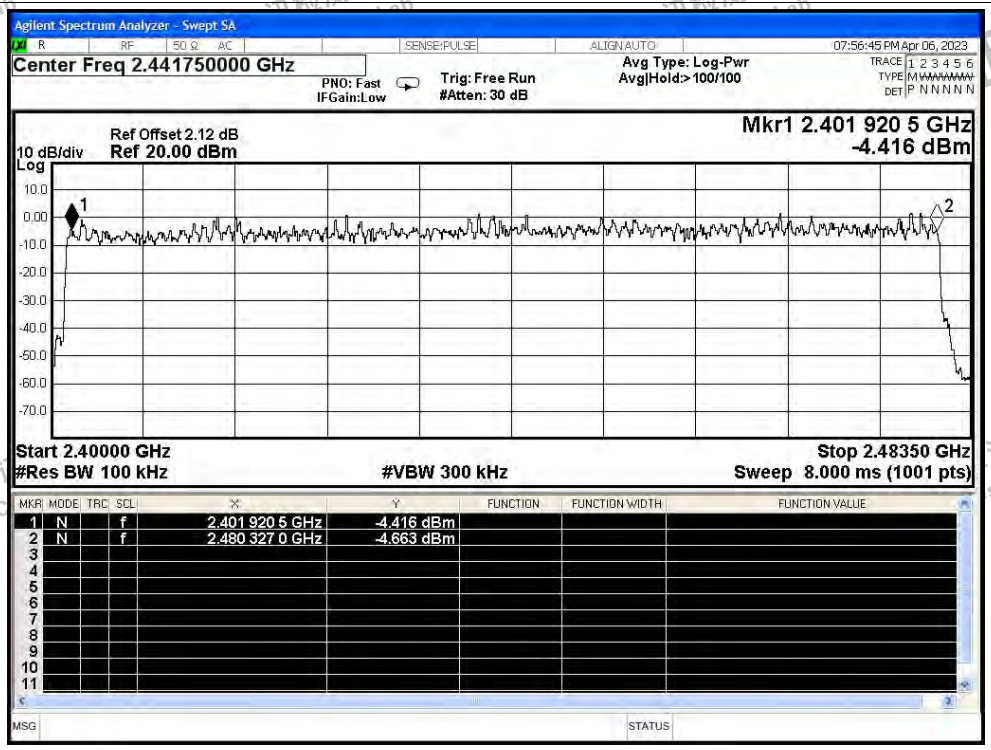
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVLT	1-DH5	Ant1	79	15	Pass
NVLT	2-DH5	Ant1	79	15	Pass
NVLT	3-DH5	Ant1	79	15	Pass

Test Graphs

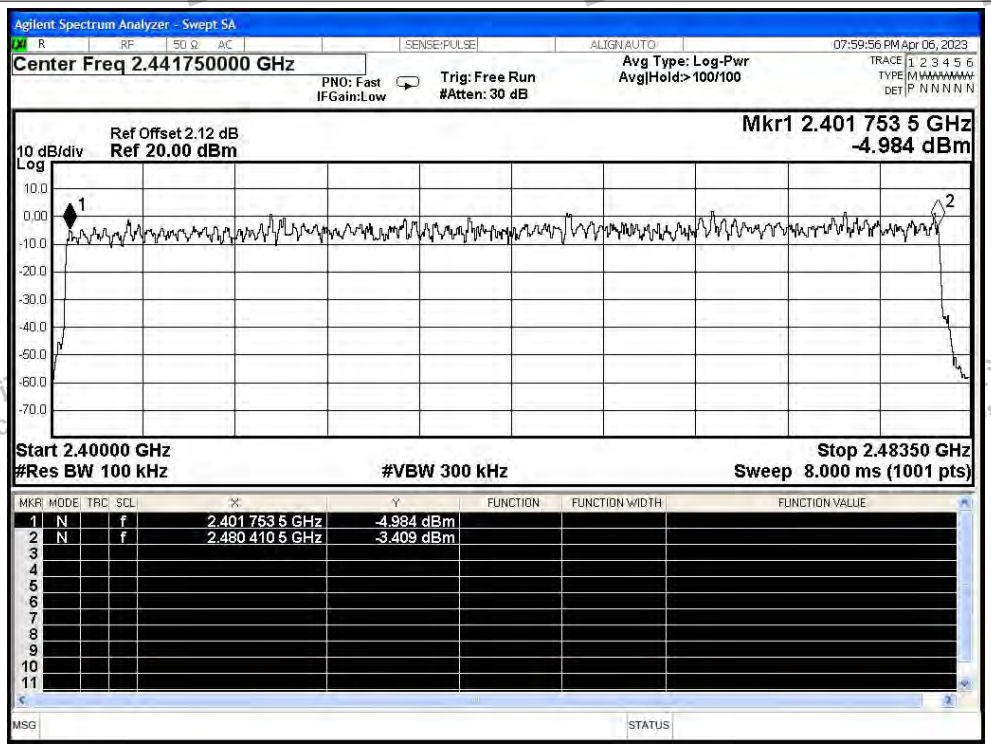
Hopping No. NVLT 1-DH5 2402MHz Ant1



Hopping No. NVLT 2-DH5 2402MHz Ant1



Hopping No. NVLT 3-DH5 2402MHz Ant1

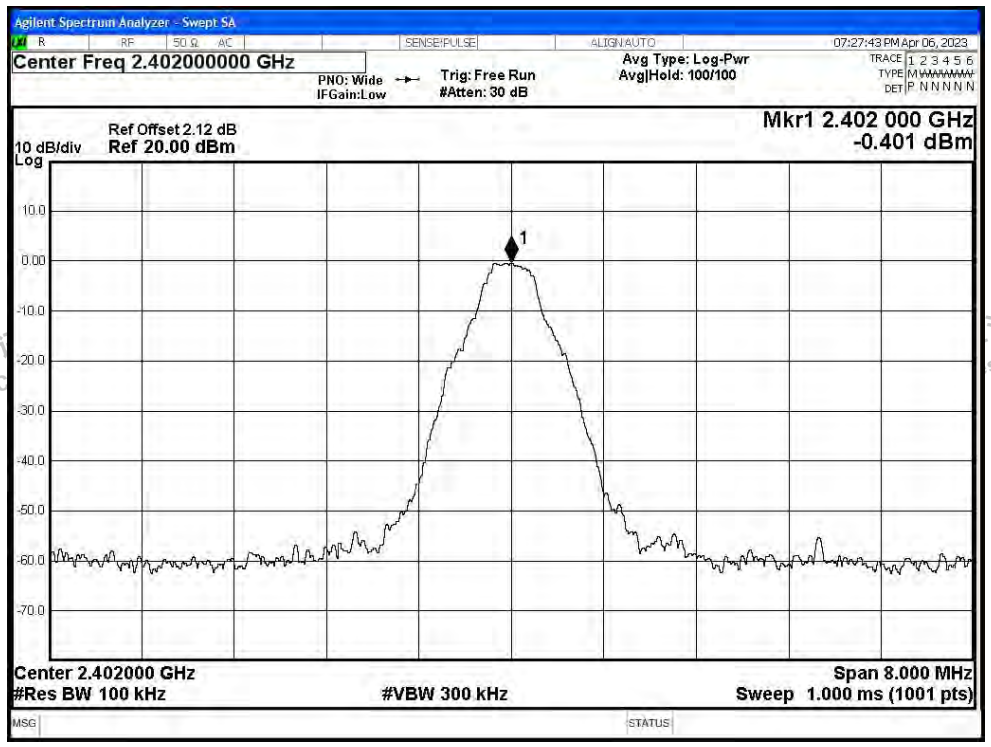


A.6 Band Edge

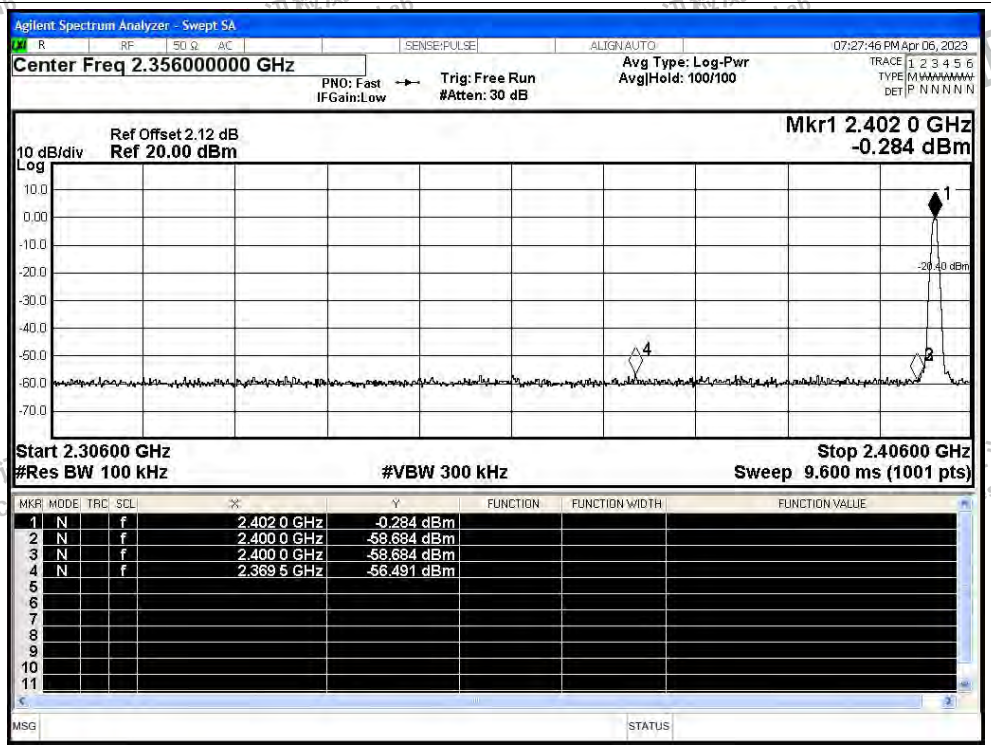
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVLT	1-DH5	2402	Ant1	No-Hopping	-56.09	-20	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	-58.86	-20	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	-54.15	-20	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	-56.91	-20	Pass
NVLT	3-DH5	2402	Ant1	No-Hopping	-54.53	-20	Pass
NVLT	3-DH5	2480	Ant1	No-Hopping	-57.46	-20	Pass

Test Graphs

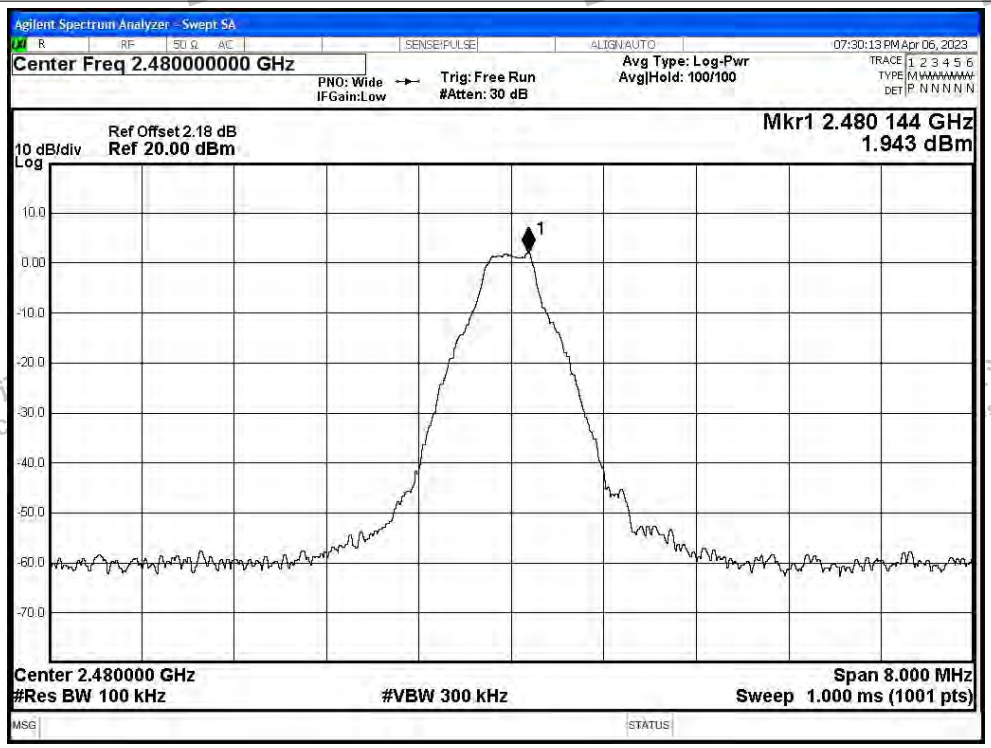
Band Edge NVLT 1-DH5 2402MHz Ant1 No-Hopping Ref



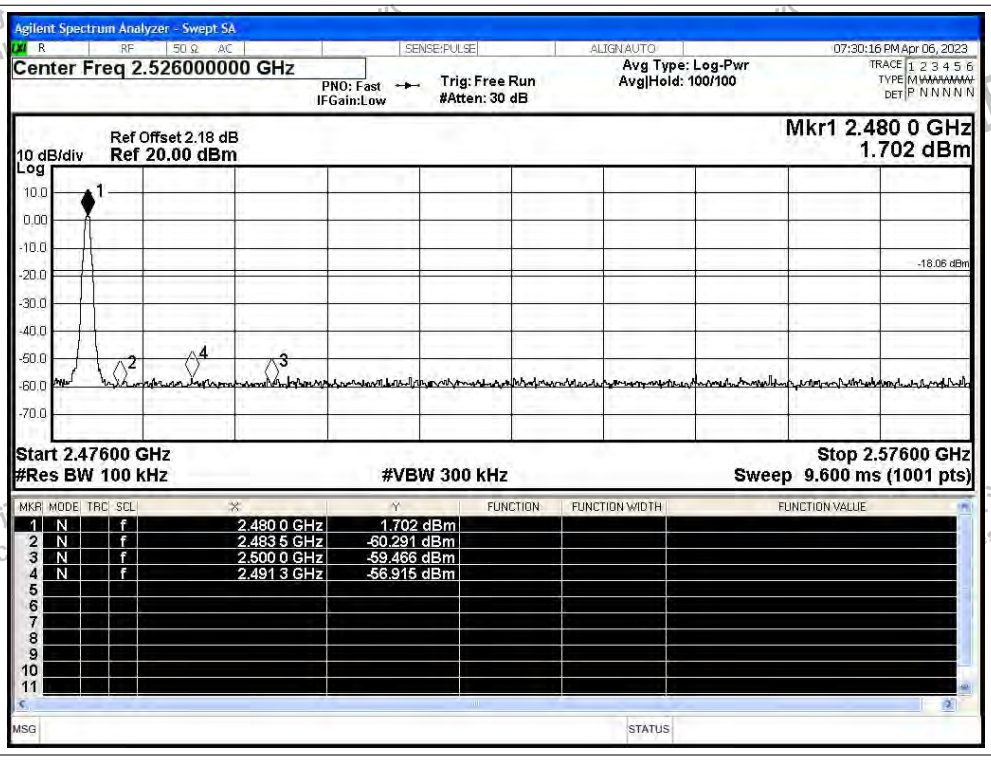
Band Edge NVLT 1-DH5 2402MHz Ant1 No-Hopping Emission



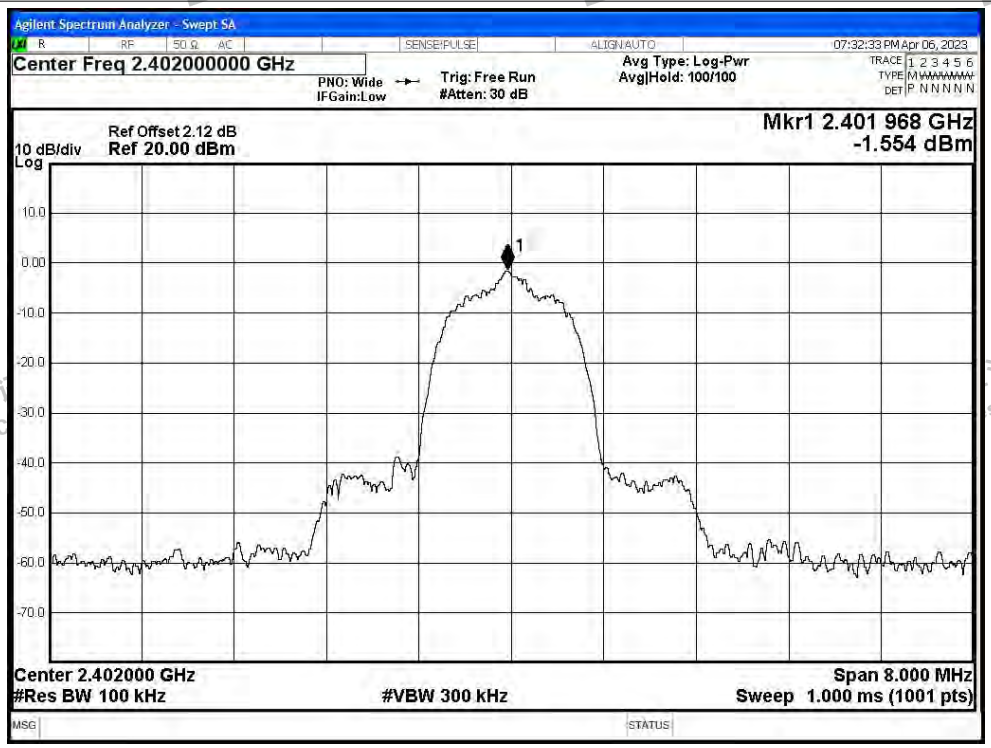
Band Edge NVLT 1-DH5 2480MHz Ant1 No-Hopping Ref



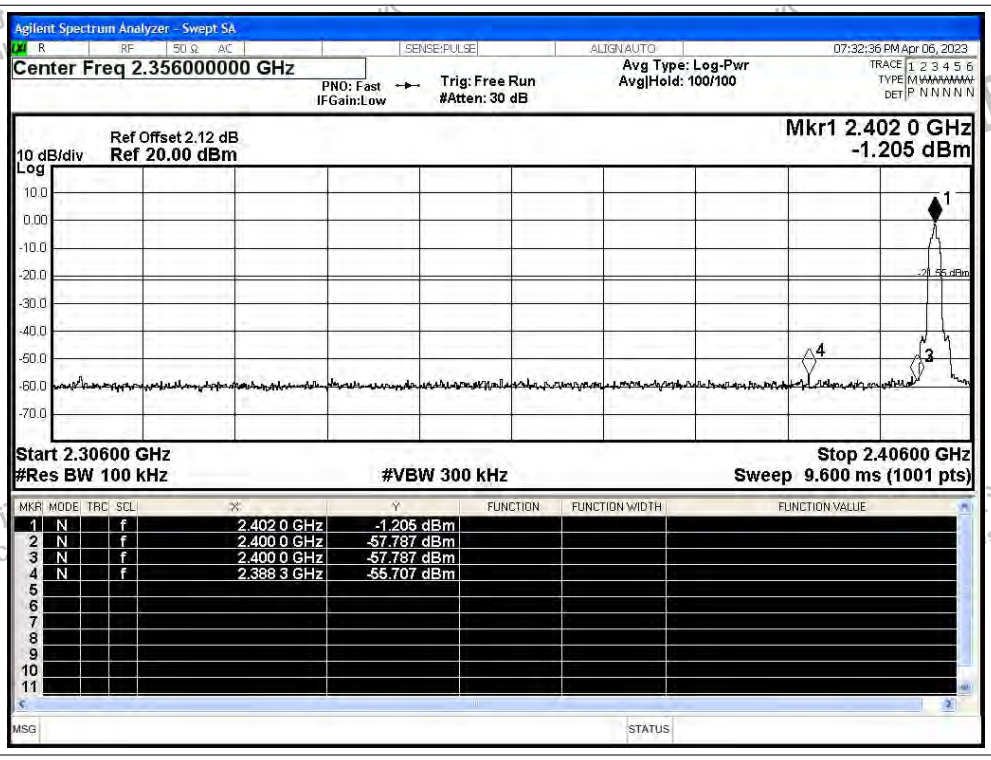
Band Edge NVLT 1-DH5 2480MHz Ant1 No-Hopping Emission



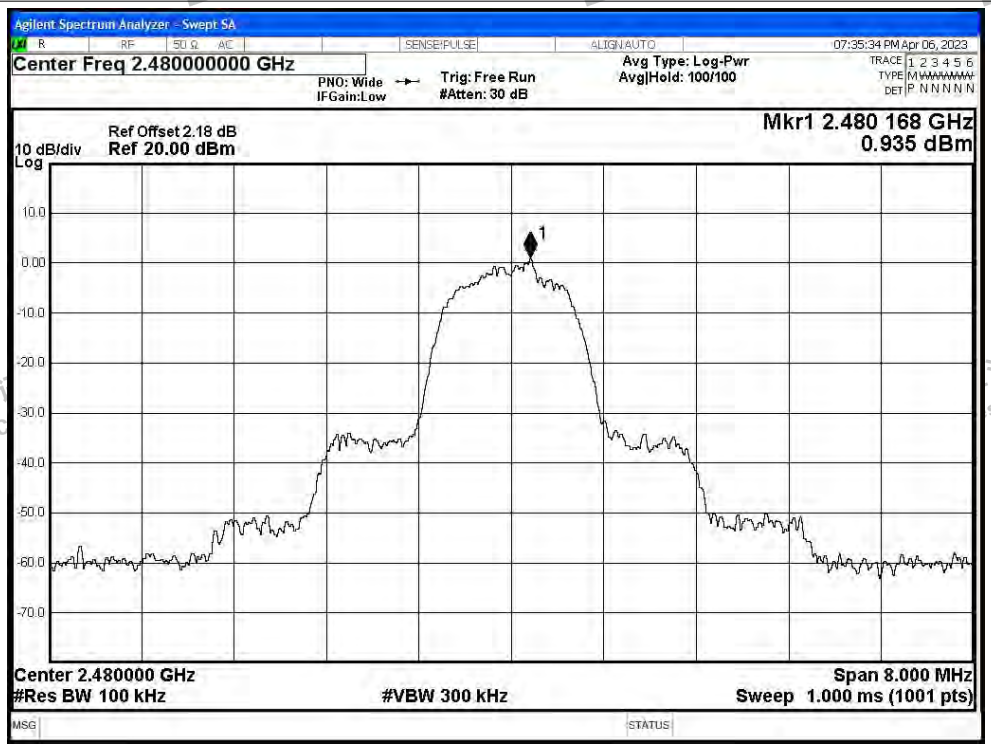
Band Edge NVLT 2-DH5 2402MHz Ant1 No-Hopping Ref



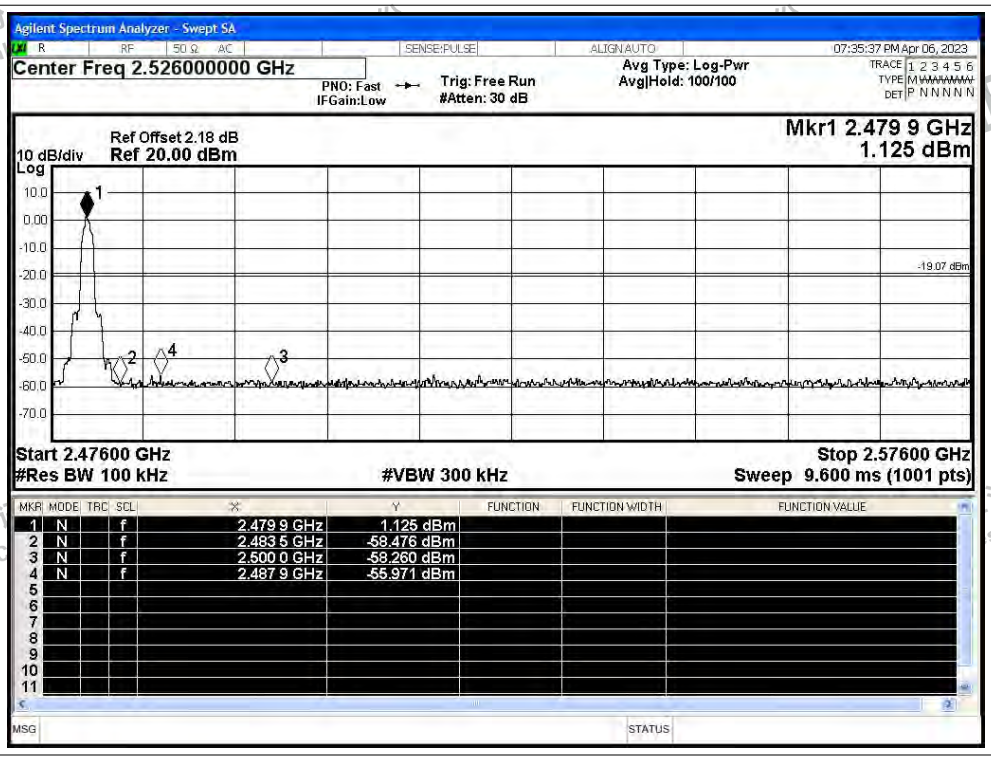
Band Edge NVLT 2-DH5 2402MHz Ant1 No-Hopping Emission



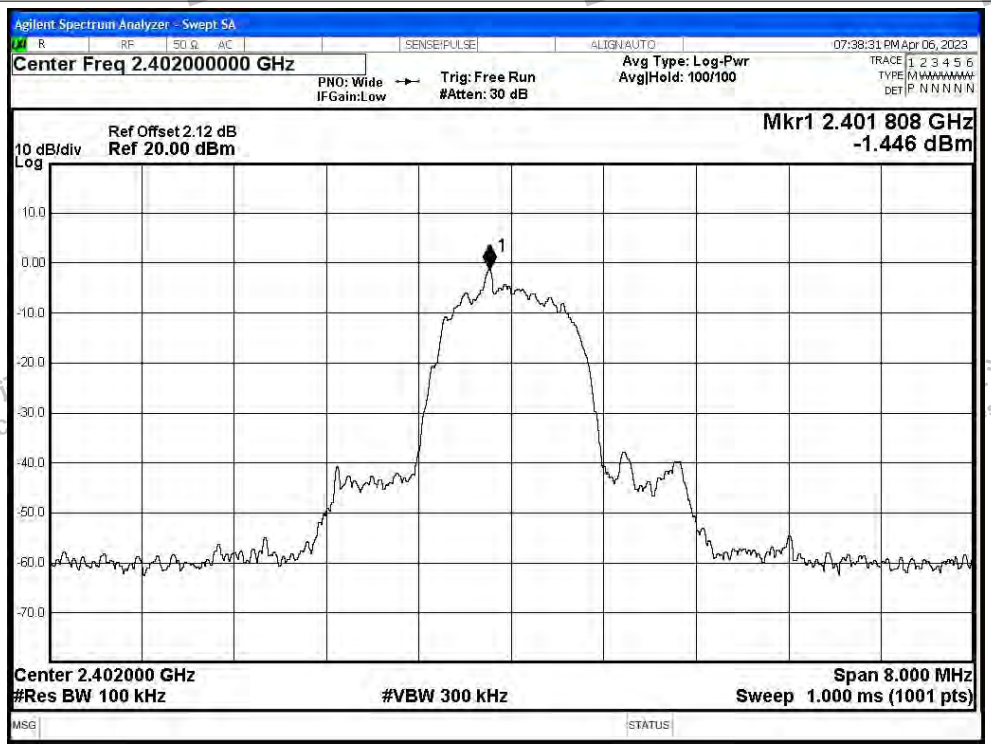
Band Edge NVLT 2-DH5 2480MHz Ant1 No-Hopping Ref



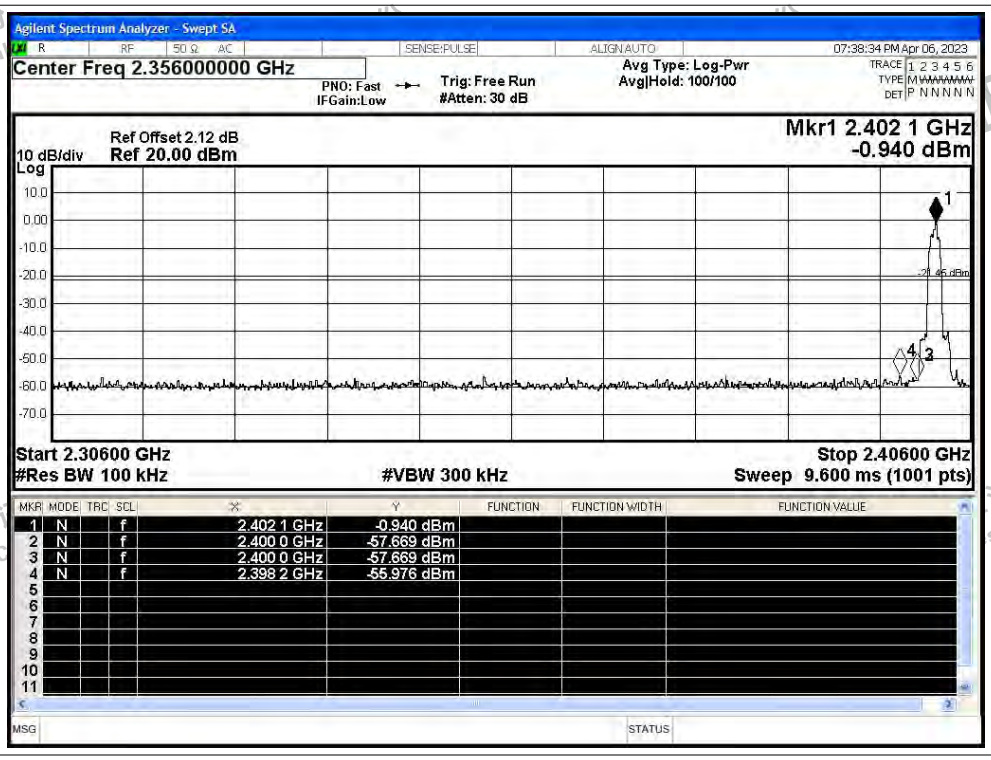
Band Edge NVLT 2-DH5 2480MHz Ant1 No-Hopping Emission



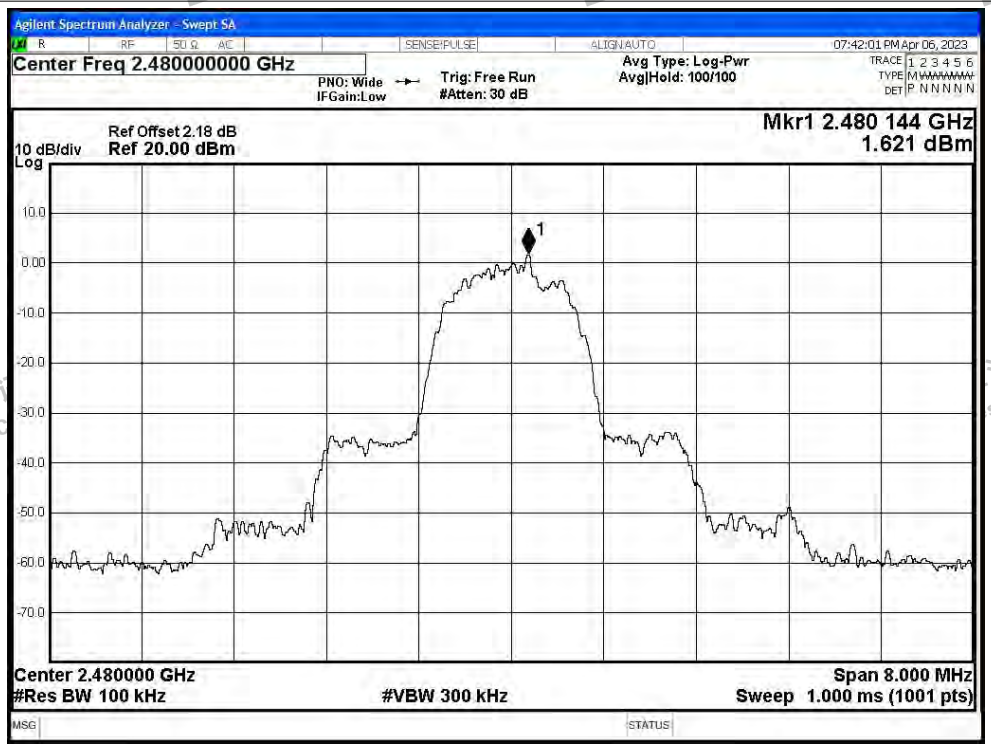
Band Edge NVLT 3-DH5 2402MHz Ant1 No-Hopping Ref



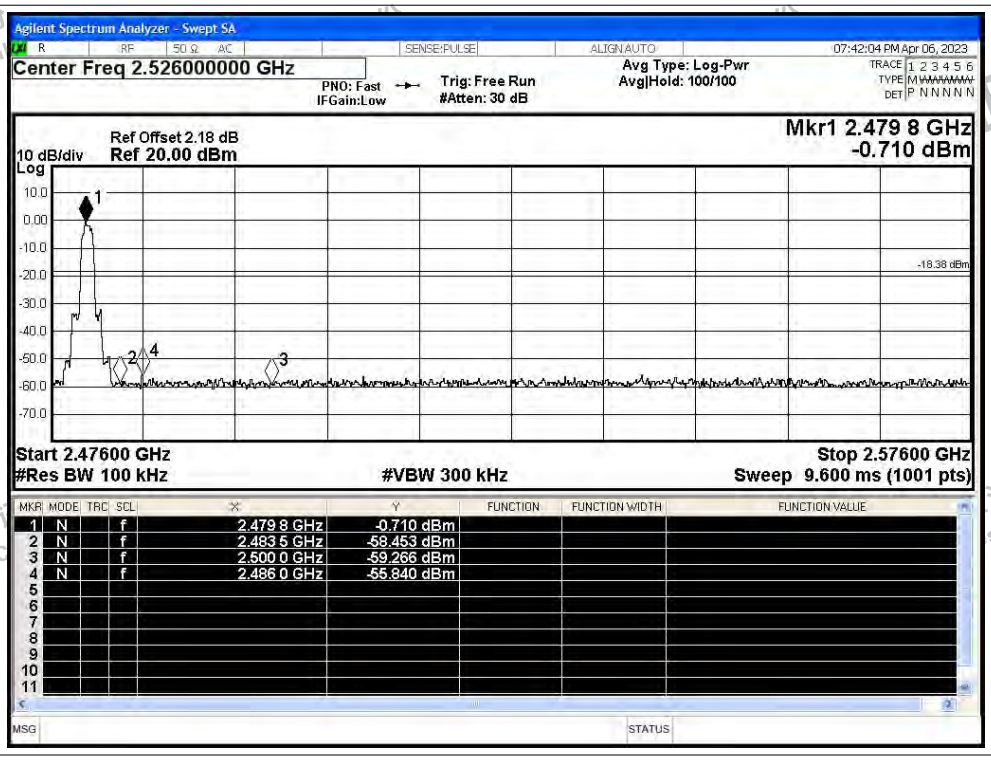
Band Edge NVLT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

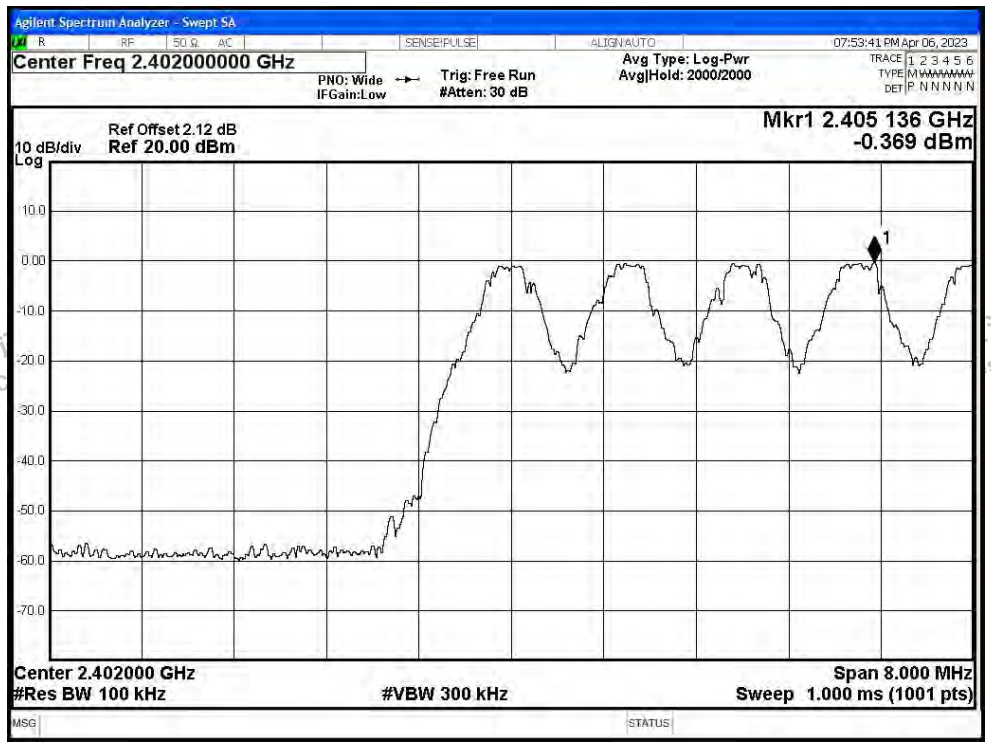


(Hopping)

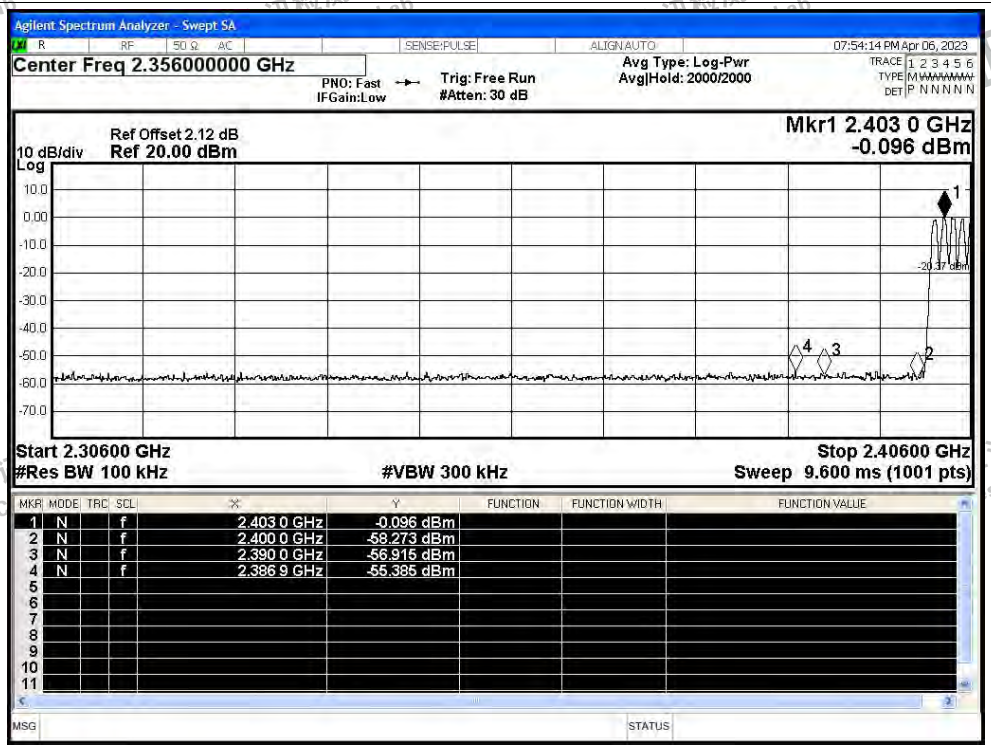
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVLT	1-DH5	2402	Ant1	Hopping	-55.02	-20	Pass
NVLT	1-DH5	2480	Ant1	Hopping	-57.85	-20	Pass
NVLT	2-DH5	2402	Ant1	Hopping	-53.31	-20	Pass
NVLT	2-DH5	2480	Ant1	Hopping	-56.49	-20	Pass
NVLT	3-DH5	2402	Ant1	Hopping	-55.28	-20	Pass
NVLT	3-DH5	2480	Ant1	Hopping	-56.8	-20	Pass

Test Graphs

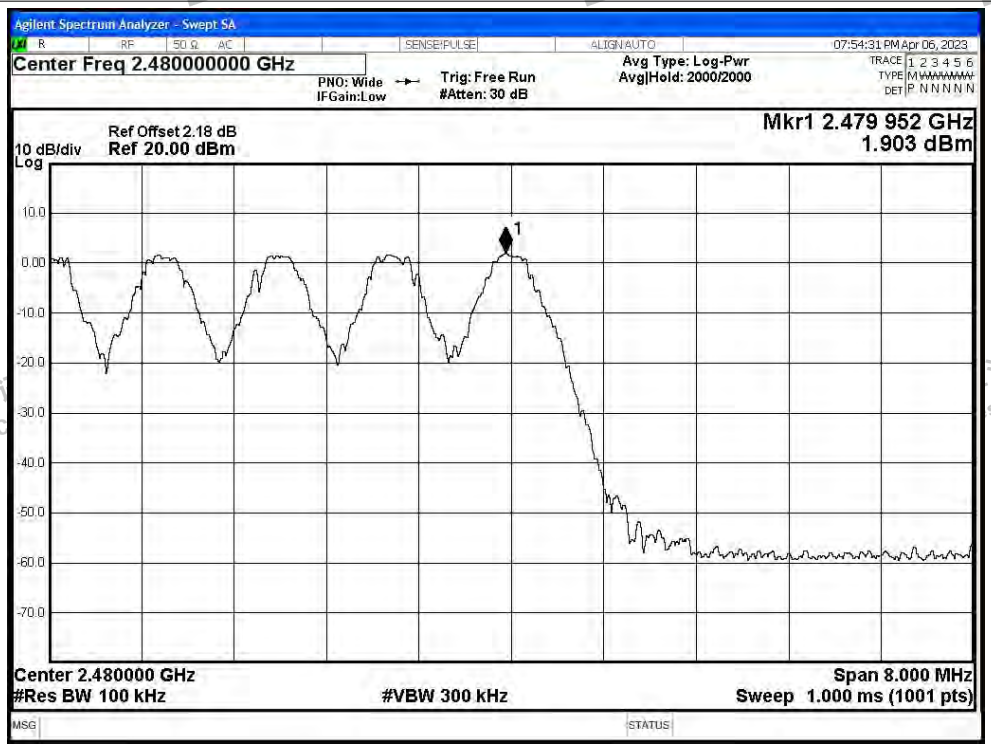
Band Edge(Hopping) NVLT 1-DH5 2402MHz Ant1 Hopping Ref



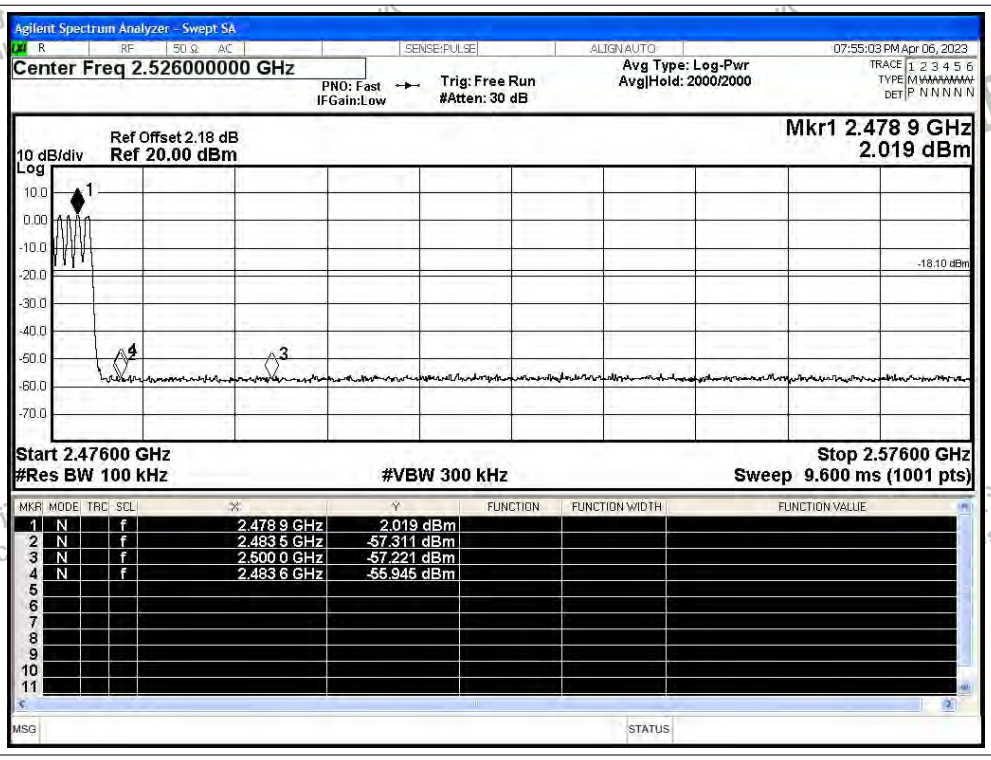
Band Edge(Hopping) NVLT 1-DH5 2402MHz Ant1 Hopping Emission



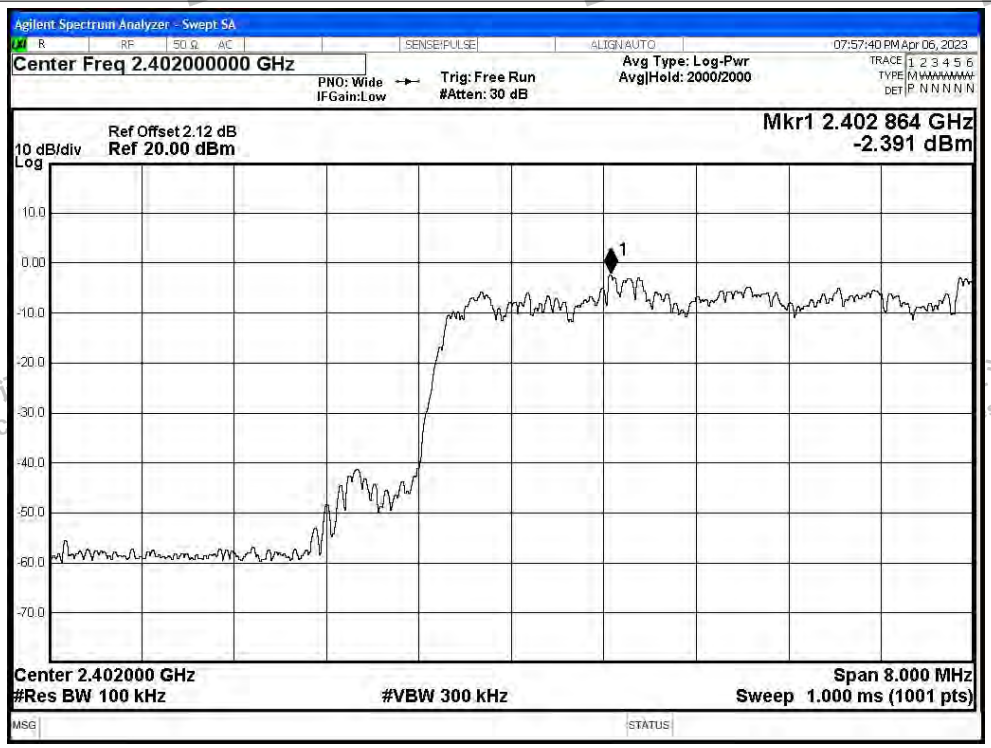
Band Edge(Hopping) NVLT 1-DH5 2480MHz Ant1 Hopping Ref



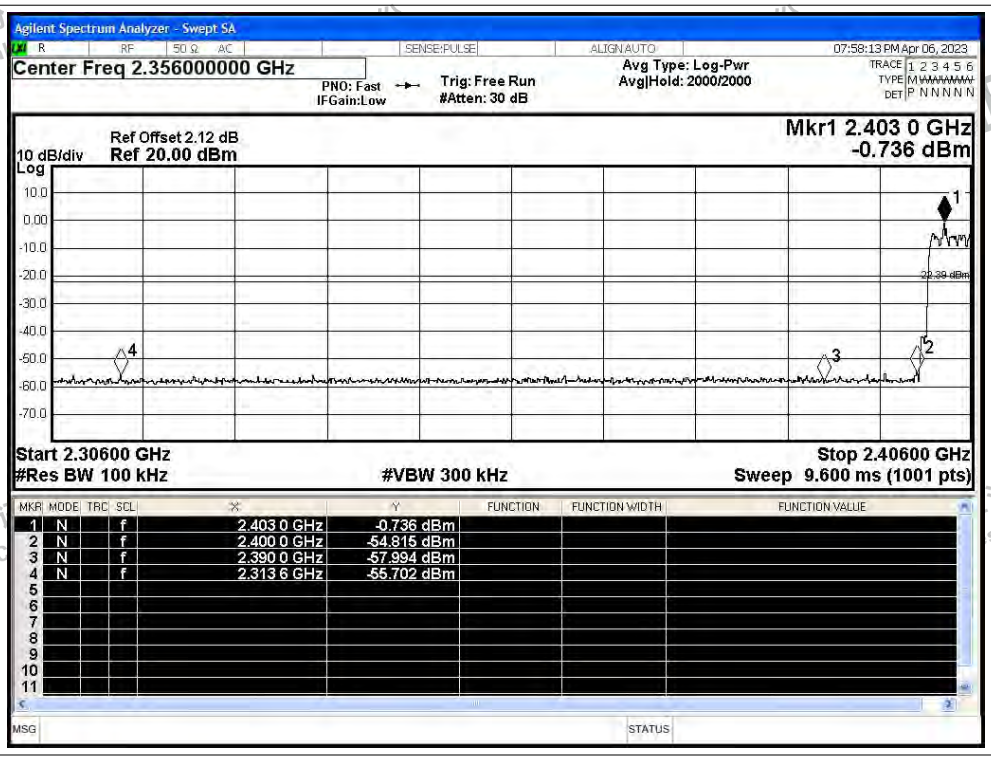
Band Edge(Hopping) NVLT 1-DH5 2480MHz Ant1 Hopping Emission



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

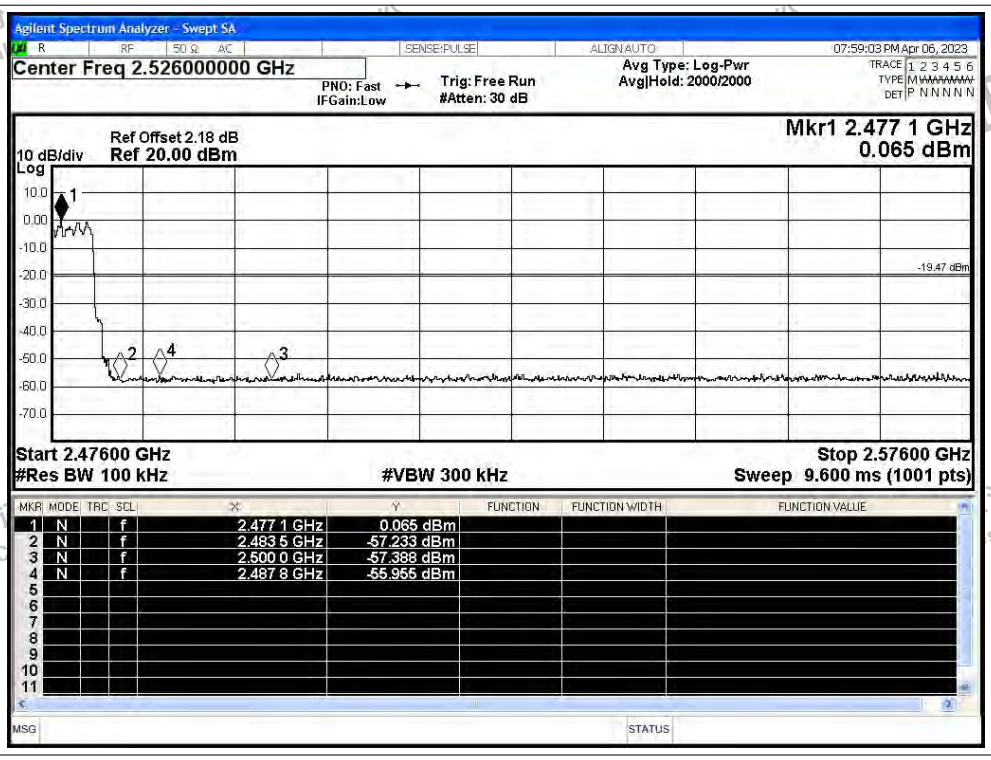


Band Edge(Hopping) NVLT 2-DH5 2402MHz Ant1 Hopping Emission

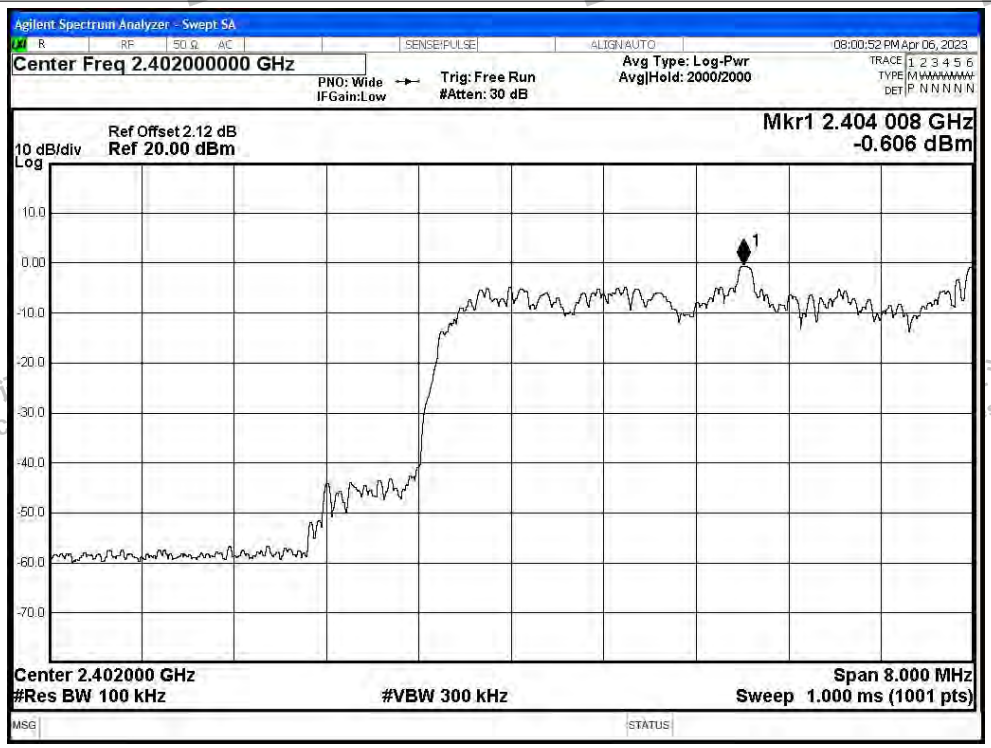


Band Edge(Hopping) NVLT 2-DH5 2480MHz Ant1 Hopping Ref

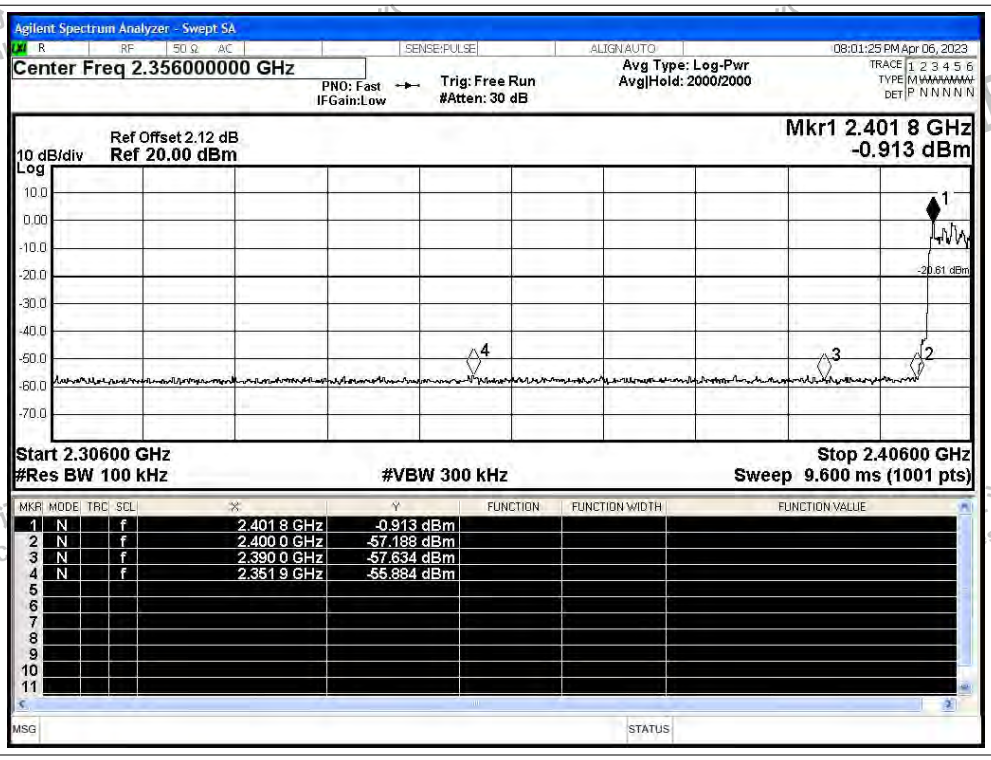
Band Edge(Hopping) NVLT 2-DH5 2480MHz Ant1 Hopping Emission



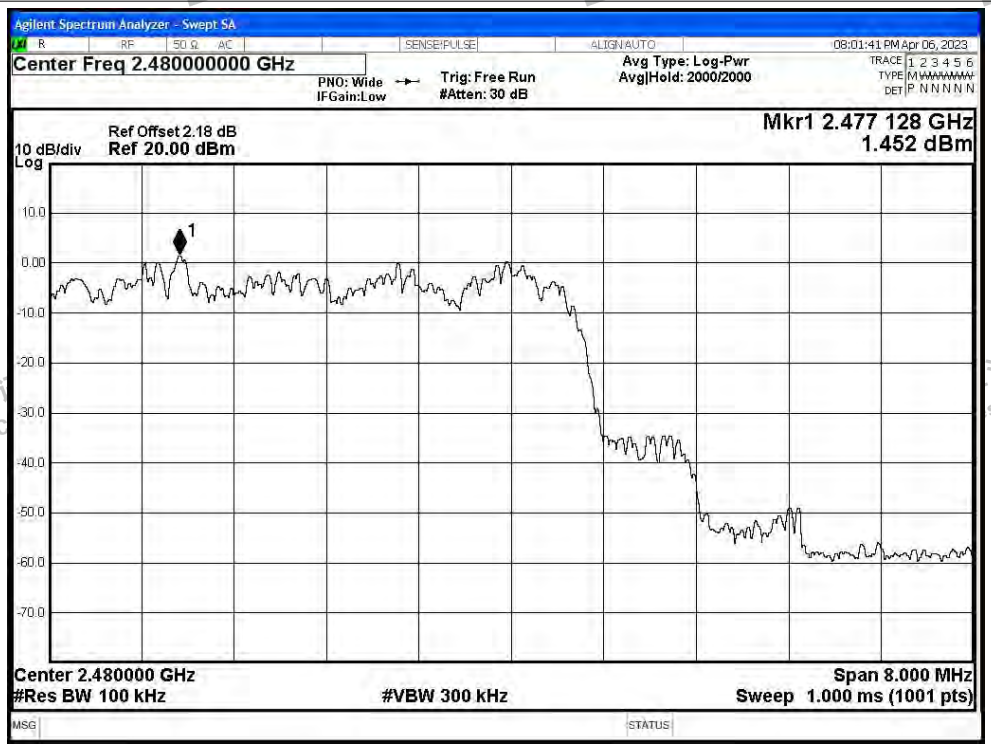
Band Edge(Hopping) NVLT 3-DH5 2402MHz Ant1 Hopping Ref



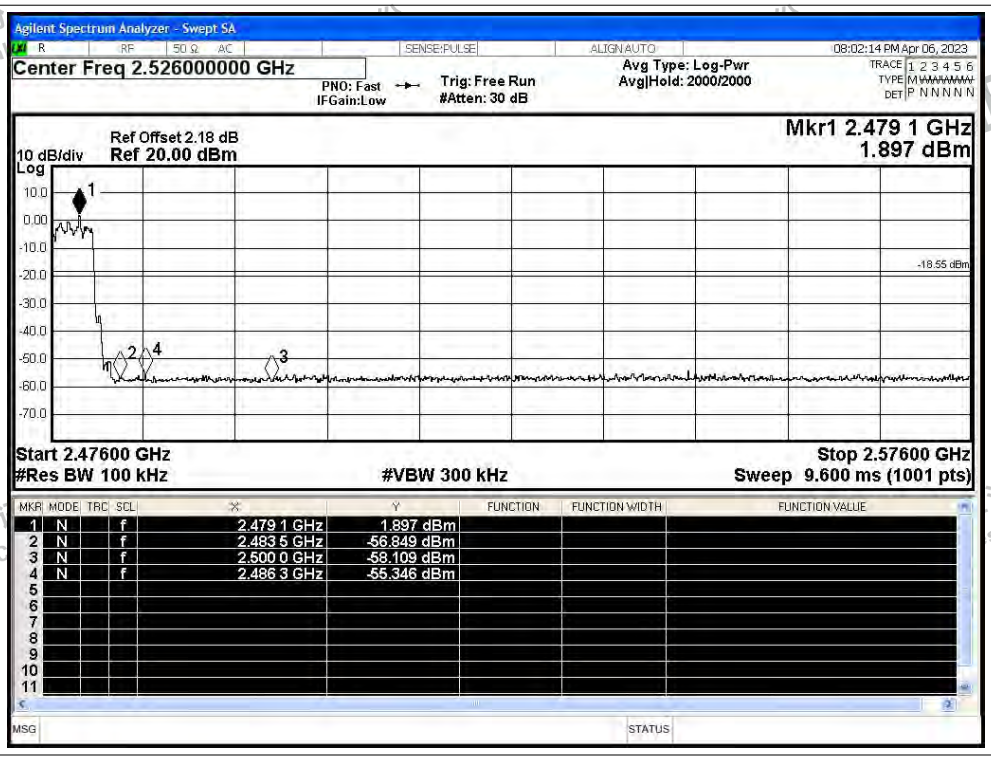
Band Edge(Hopping) NVLT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

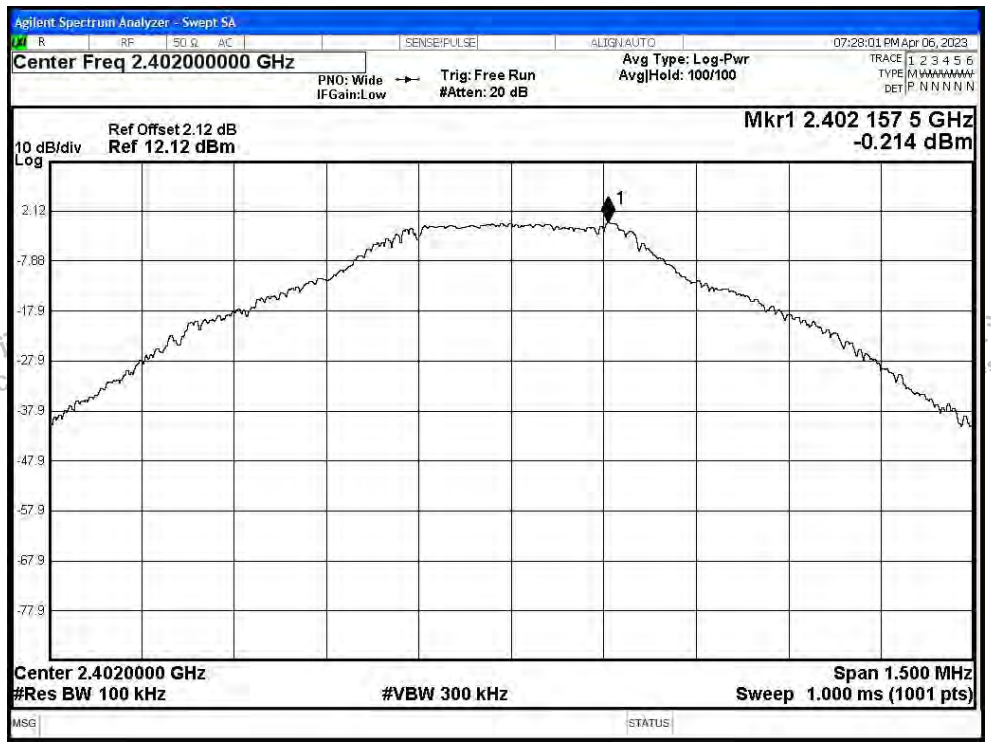


A.7 Conducted RF Spurious Emission

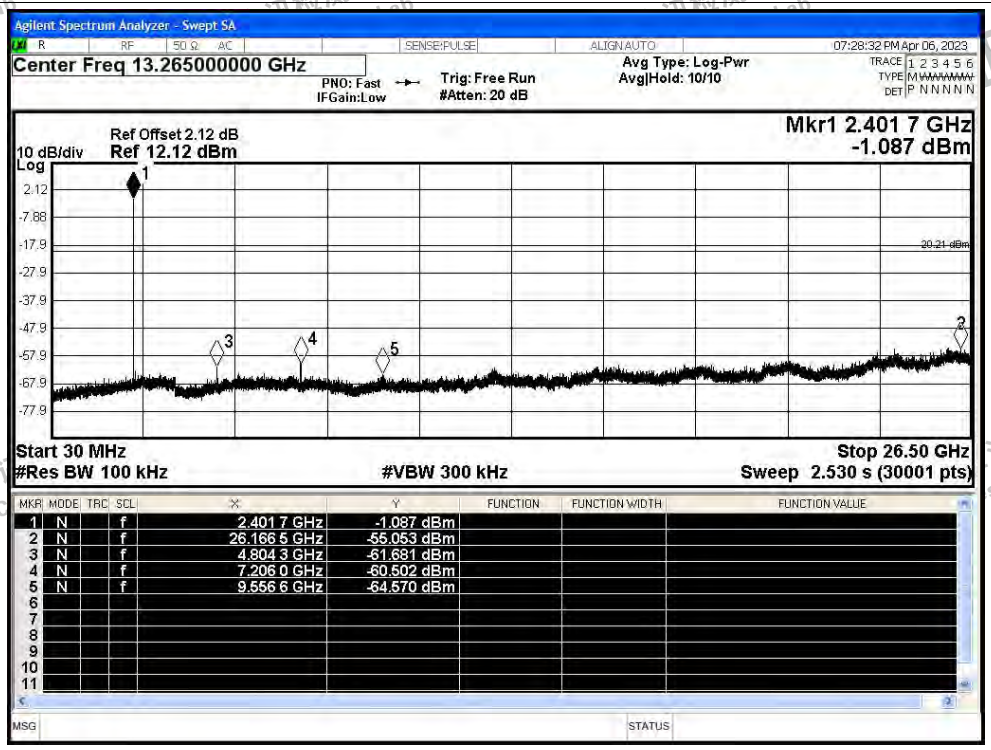
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVLT	1-DH5	2402	Ant1	-54.84	-20	Pass
NVLT	1-DH5	2441	Ant1	-56	-20	Pass
NVLT	1-DH5	2480	Ant1	-57.27	-20	Pass
NVLT	2-DH5	2402	Ant1	-54.65	-20	Pass
NVLT	2-DH5	2441	Ant1	-55.22	-20	Pass
NVLT	2-DH5	2480	Ant1	-56.58	-20	Pass
NVLT	3-DH5	2402	Ant1	-54.61	-20	Pass
NVLT	3-DH5	2441	Ant1	-55.82	-20	Pass
NVLT	3-DH5	2480	Ant1	-57.51	-20	Pass

Test Graphs

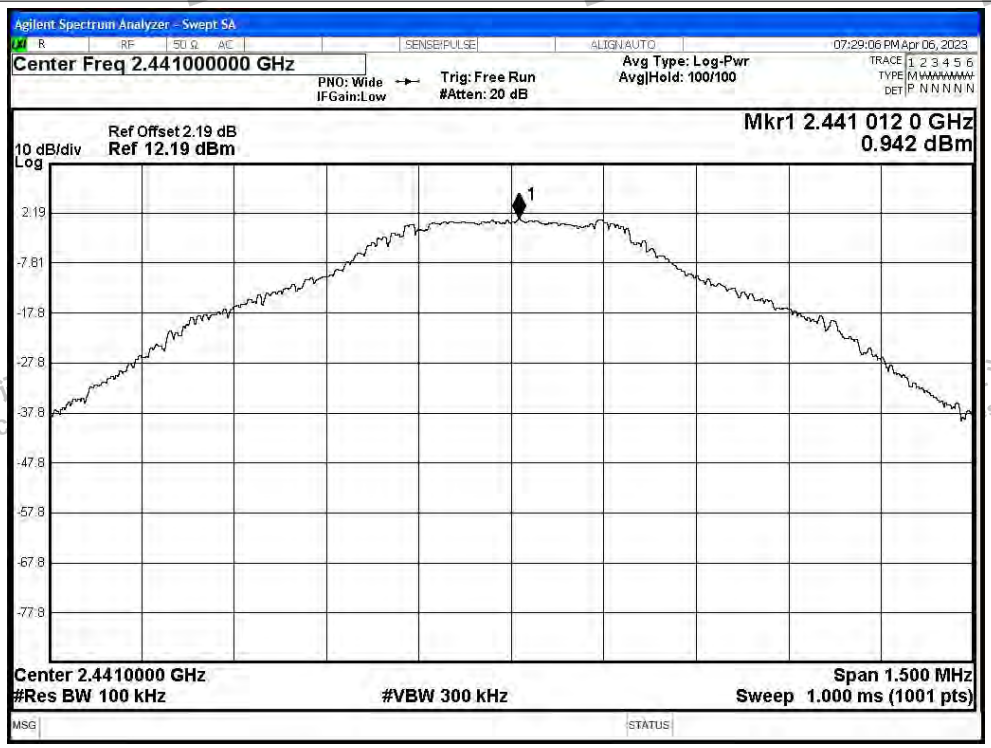
Tx. Spurious NVLT 1-DH5 2402MHz Ant1 Ref



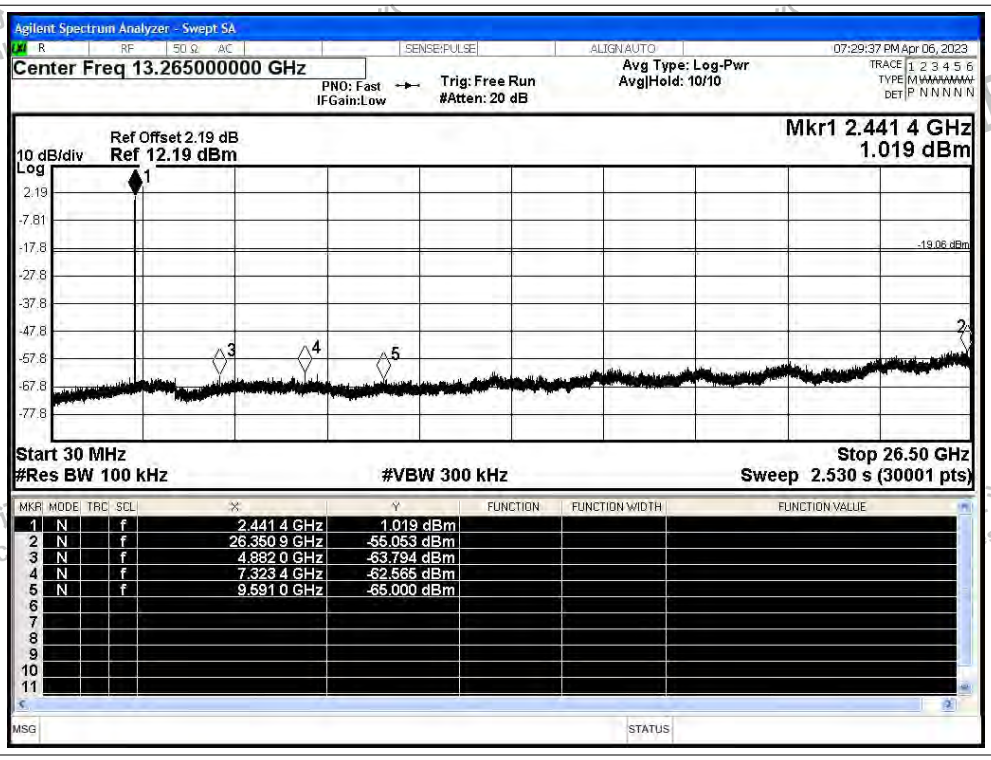
Tx. Spurious NVLT 1-DH5 2402MHz Ant1 Emission



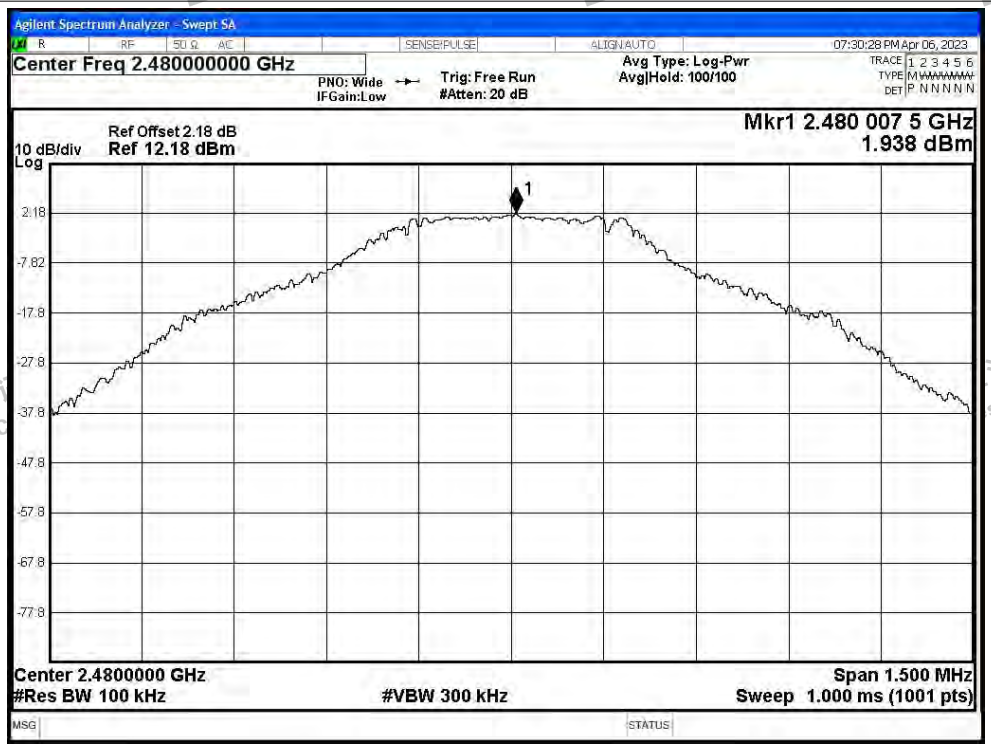
Tx. Spurious NVLT 1-DH5 2441MHz Ant1 Ref



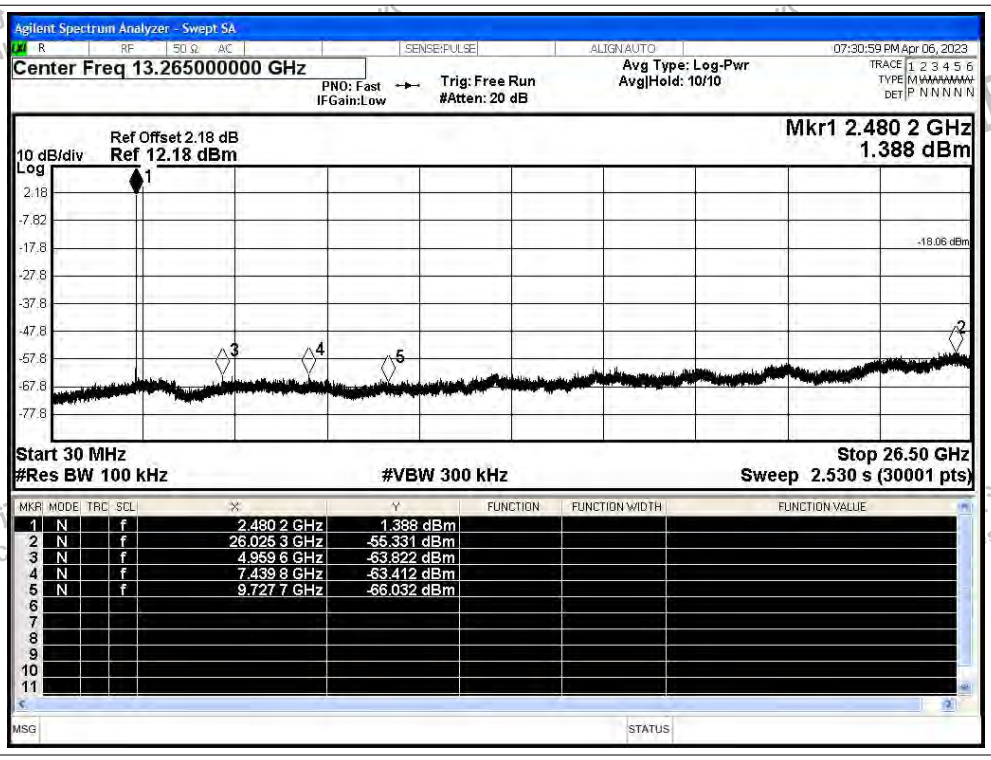
Tx. Spurious NVLT 1-DH5 2441MHz Ant1 Emission



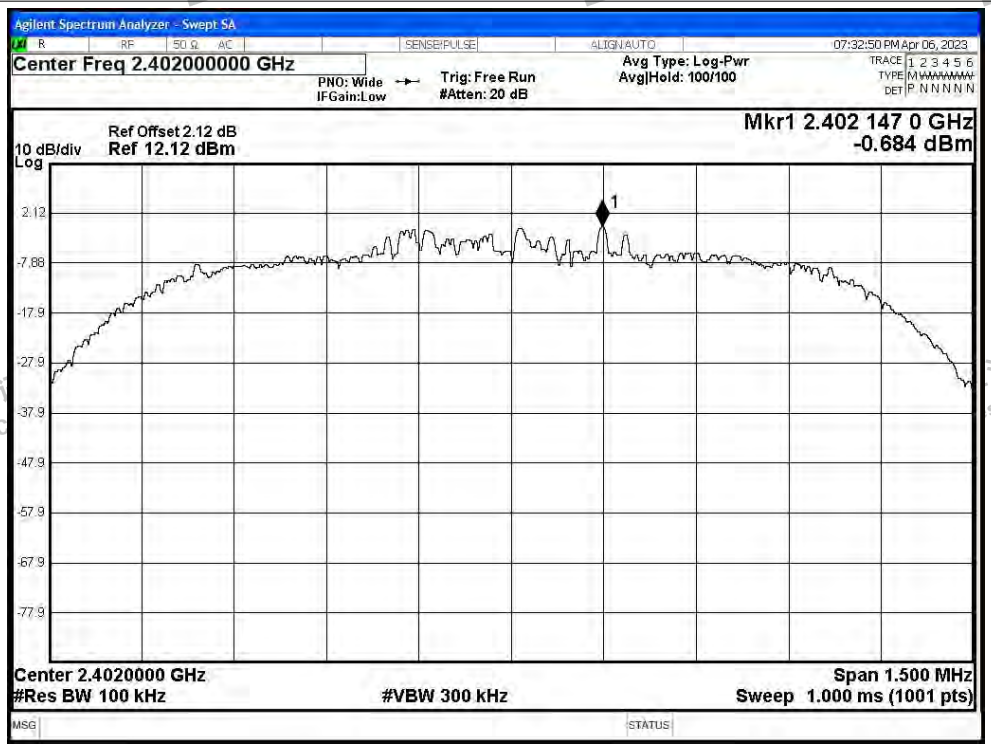
Tx. Spurious NVLT 1-DH5 2480MHz Ant1 Ref



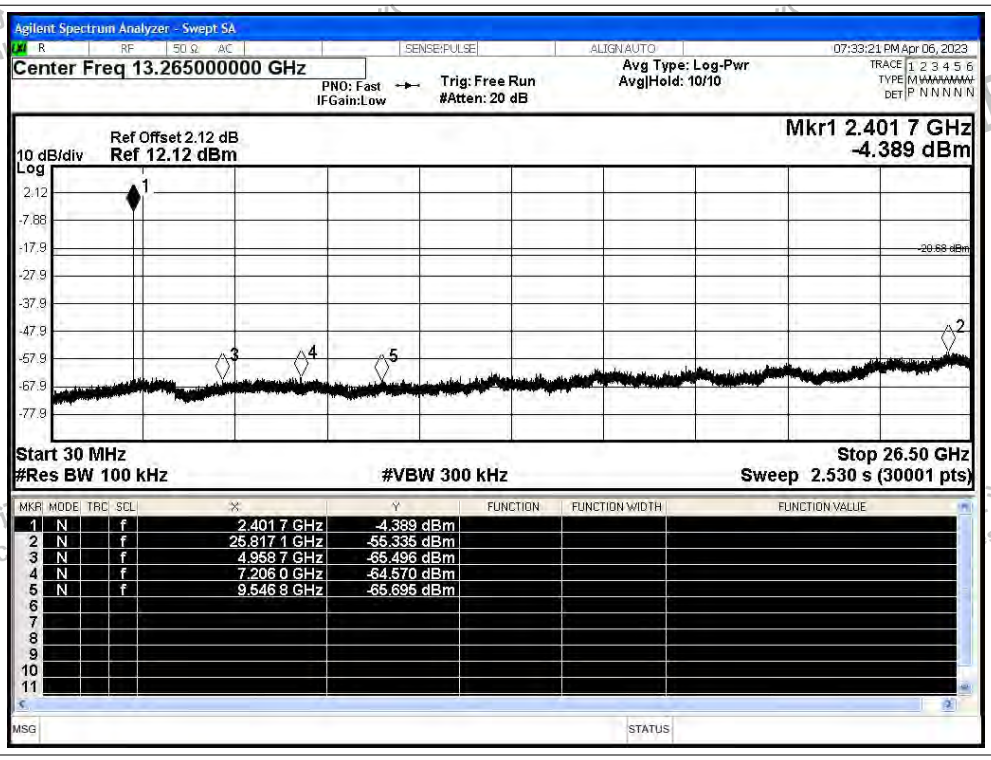
Tx. Spurious NVLT 1-DH5 2480MHz Ant1 Emission



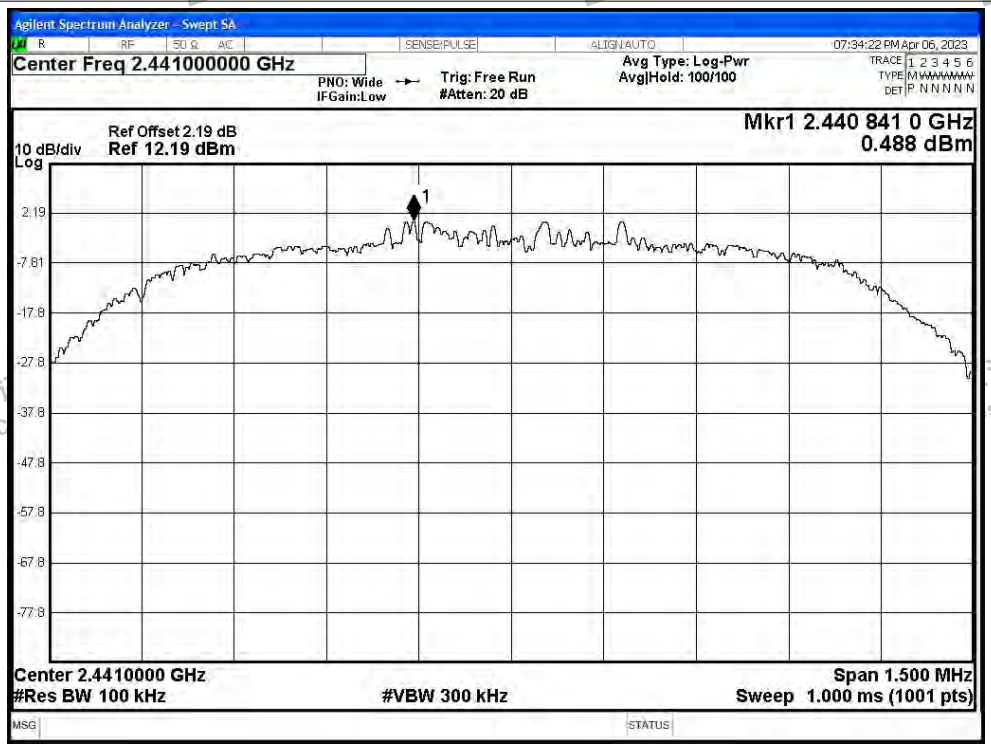
Tx. Spurious NVLT 2-DH5 2402MHz Ant1 Ref



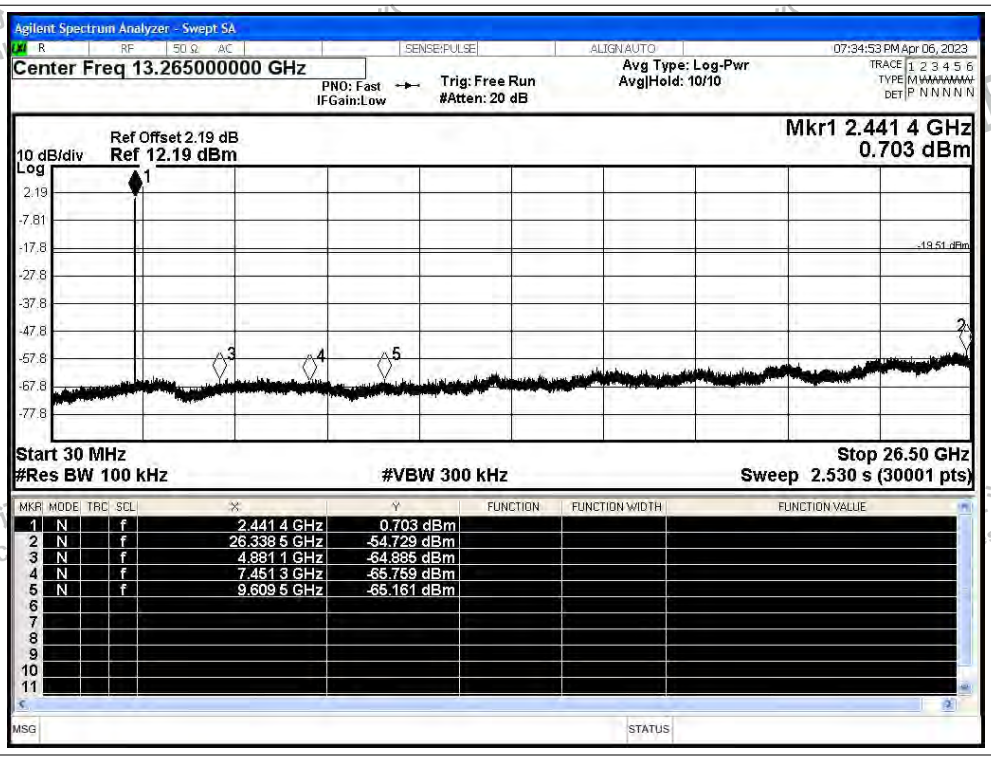
Tx. Spurious NVLT 2-DH5 2402MHz Ant1 Emission



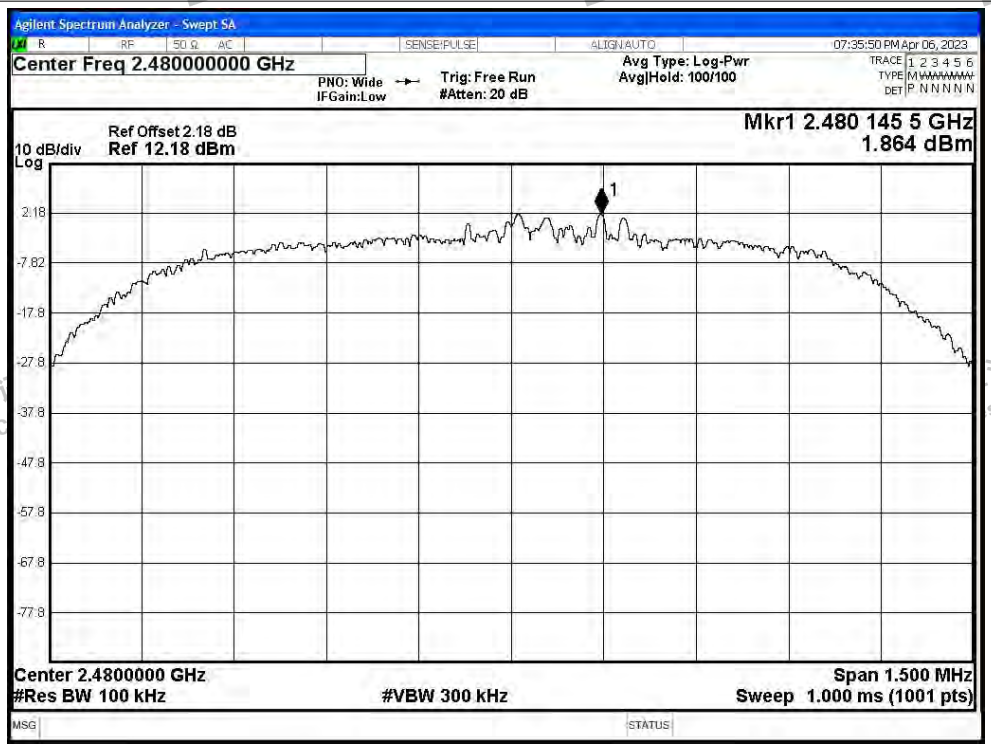
Tx. Spurious NVLT 2-DH5 2441MHz Ant1 Ref



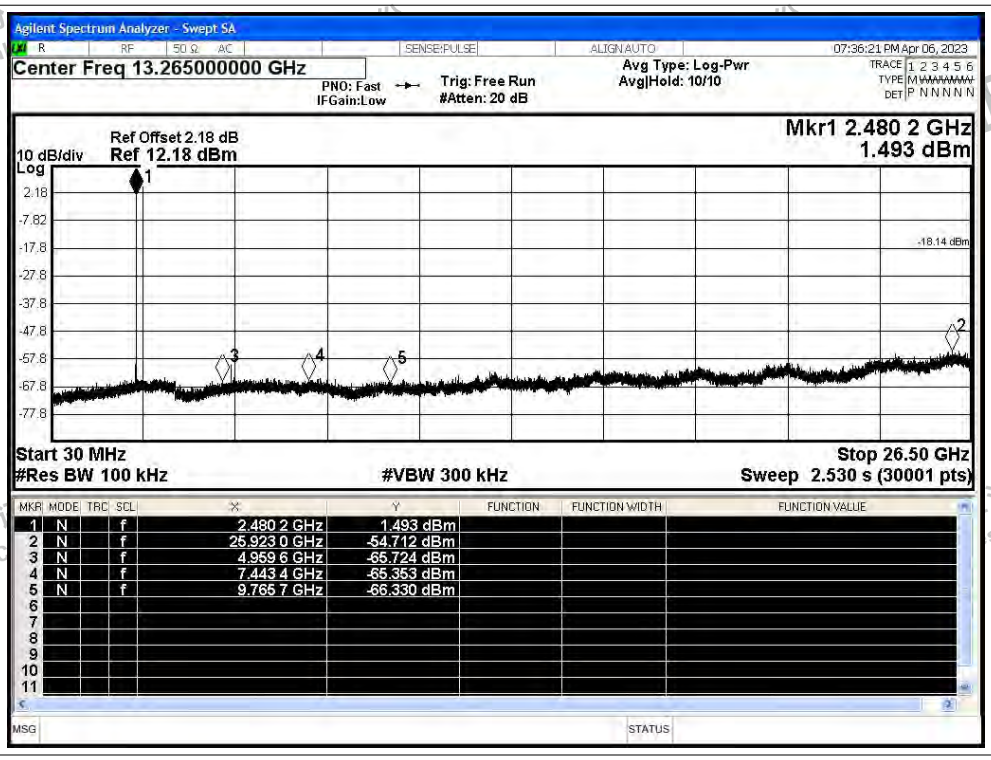
Tx. Spurious NVLT 2-DH5 2441MHz Ant1 Emission



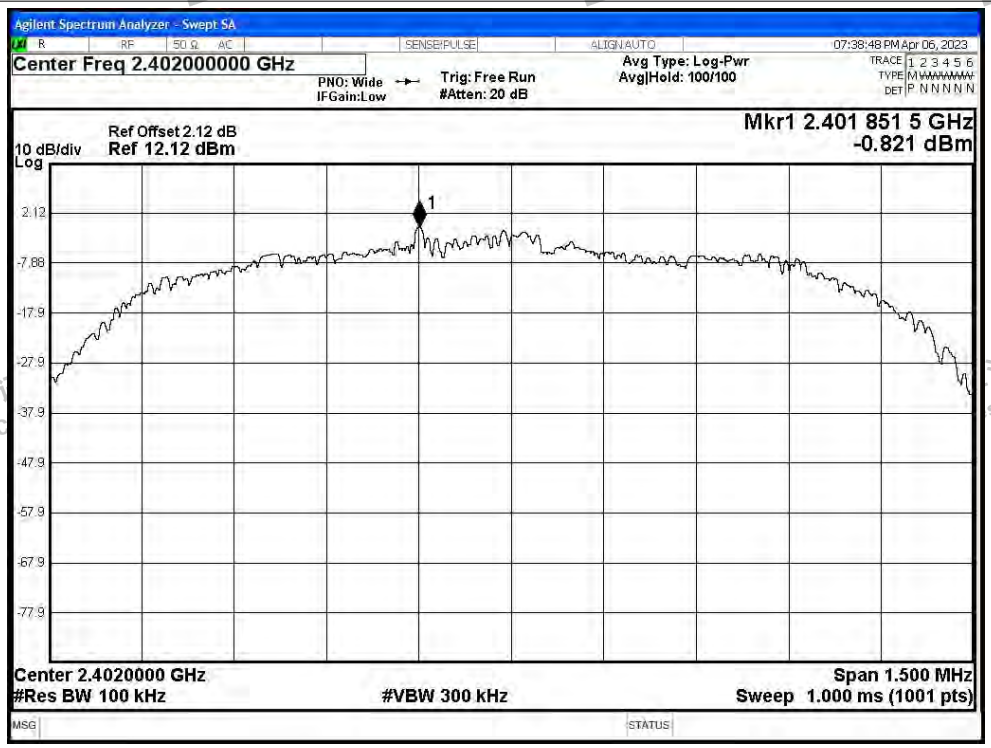
Tx. Spurious NVLT 2-DH5 2480MHz Ant1 Ref



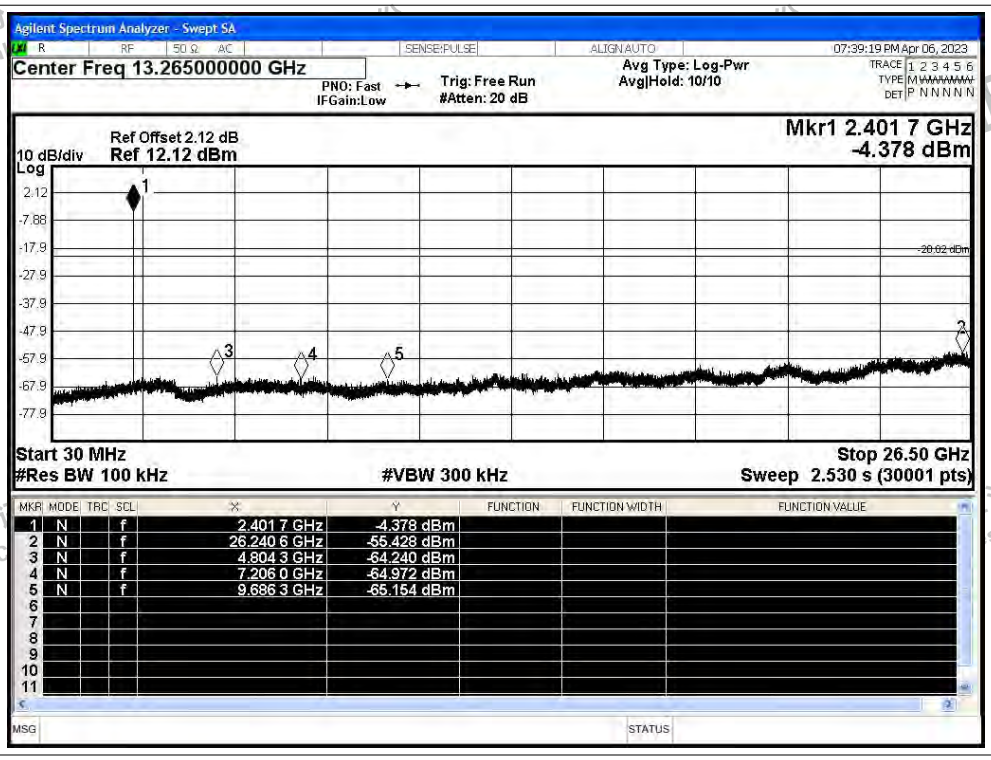
Tx. Spurious NVLT 2-DH5 2480MHz Ant1 Emission



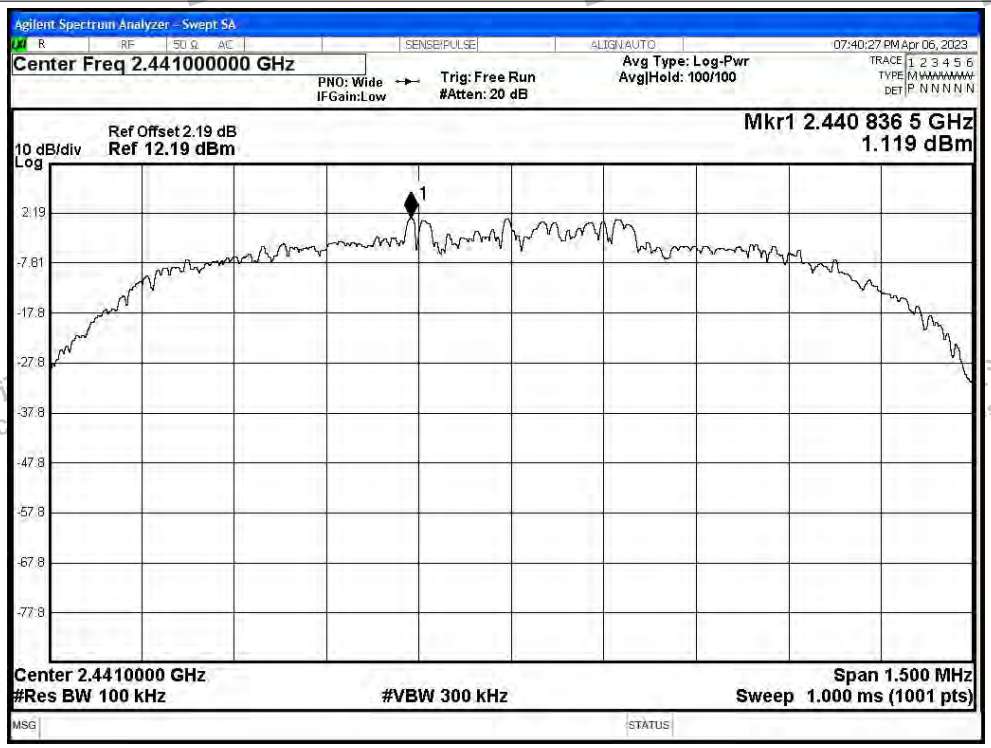
Tx. Spurious NVLT 3-DH5 2402MHz Ant1 Ref



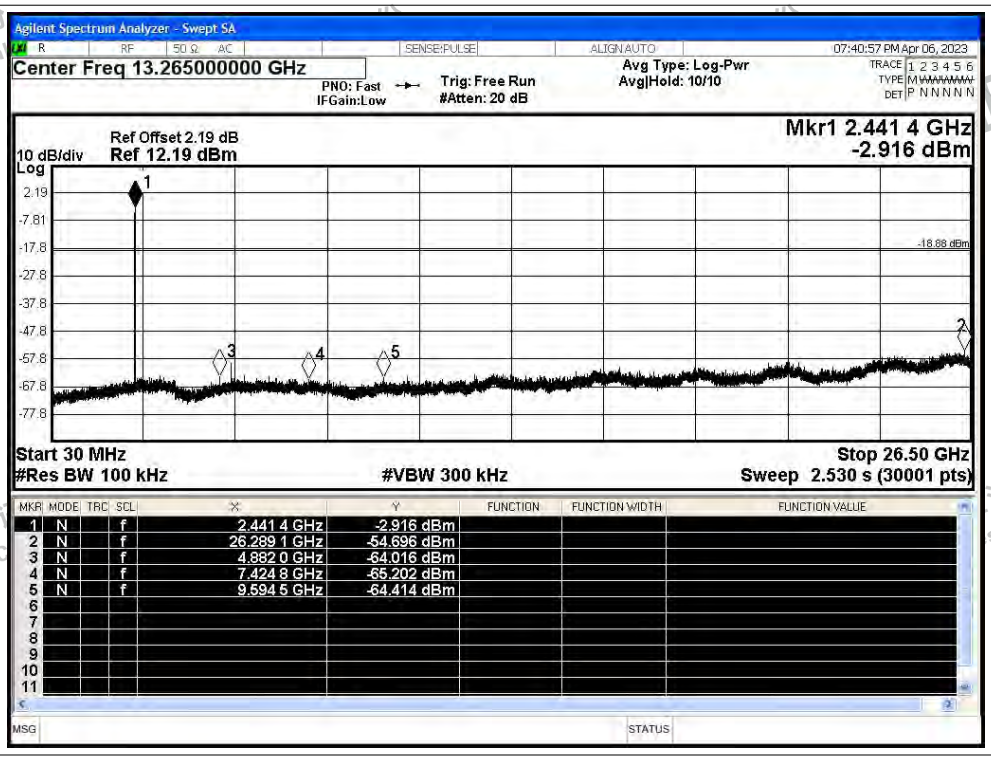
Tx. Spurious NVLT 3-DH5 2402MHz Ant1 Emission



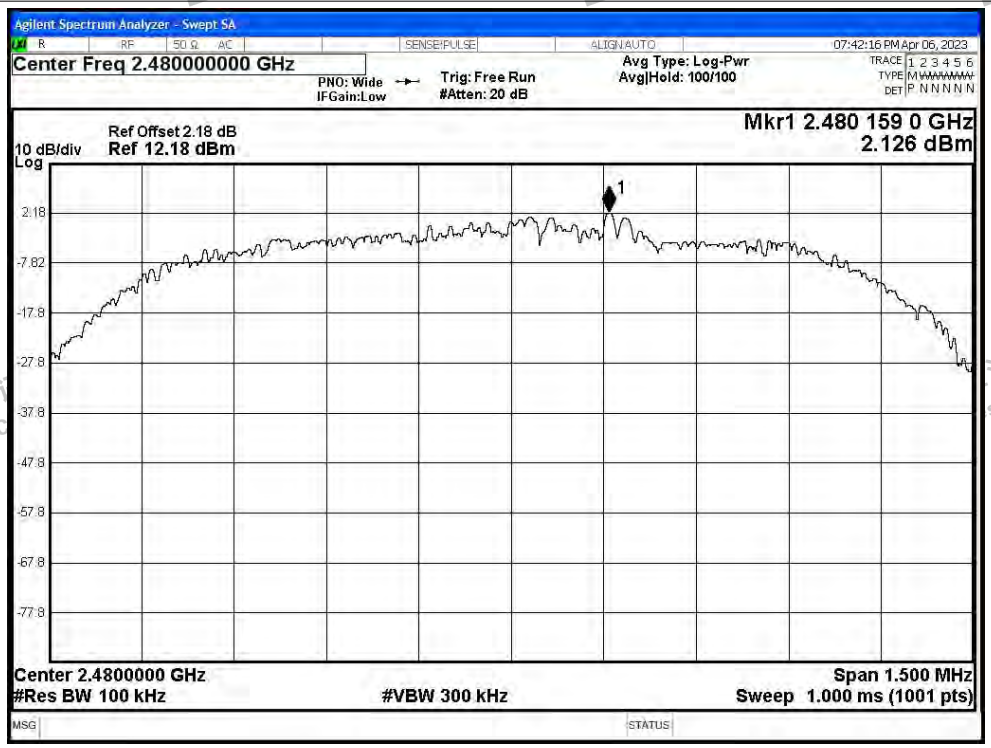
Tx. Spurious NVLT 3-DH5 2441MHz Ant1 Ref



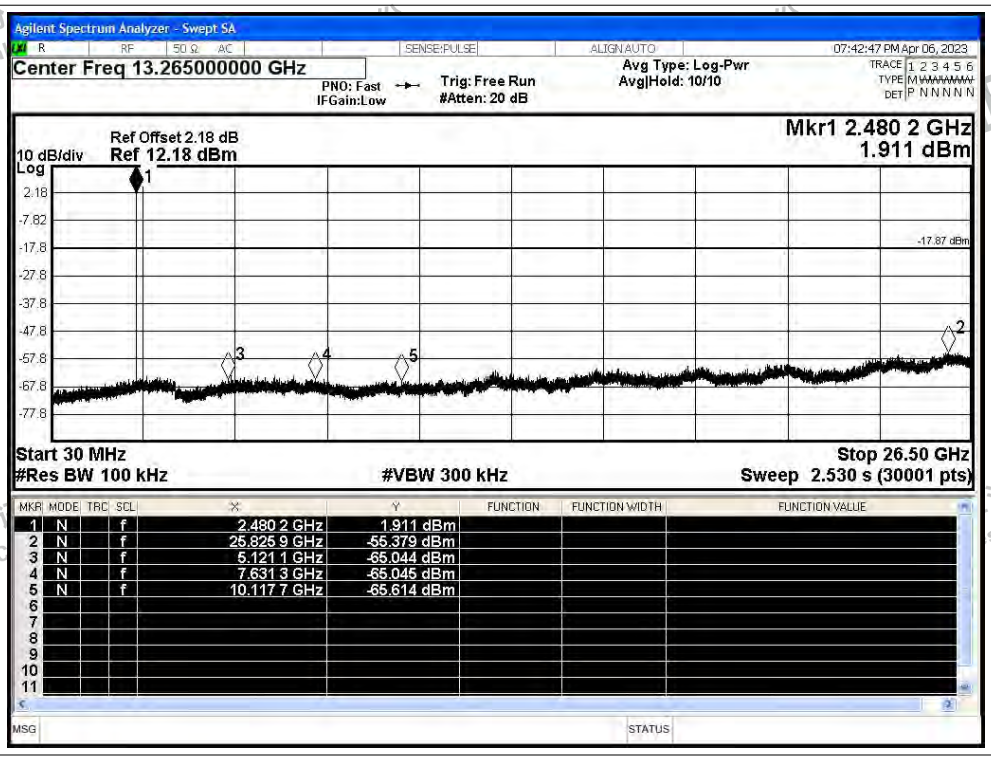
Tx. Spurious NVLT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVLT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVLT 3-DH5 2480MHz Ant1 Emission

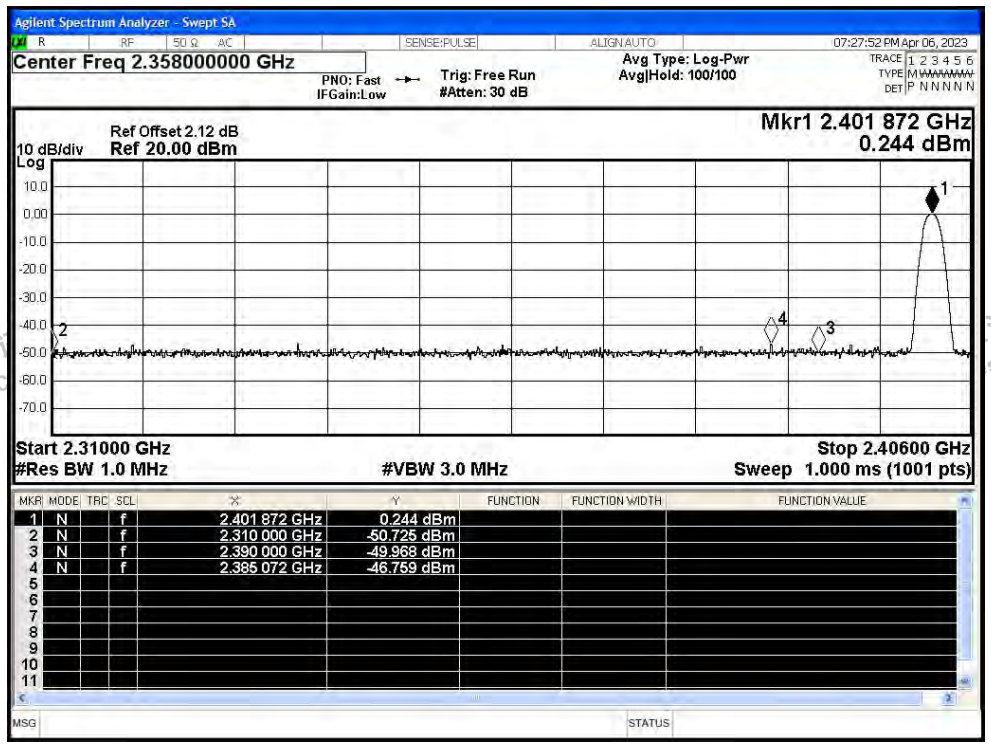


A.8 Restrict Band

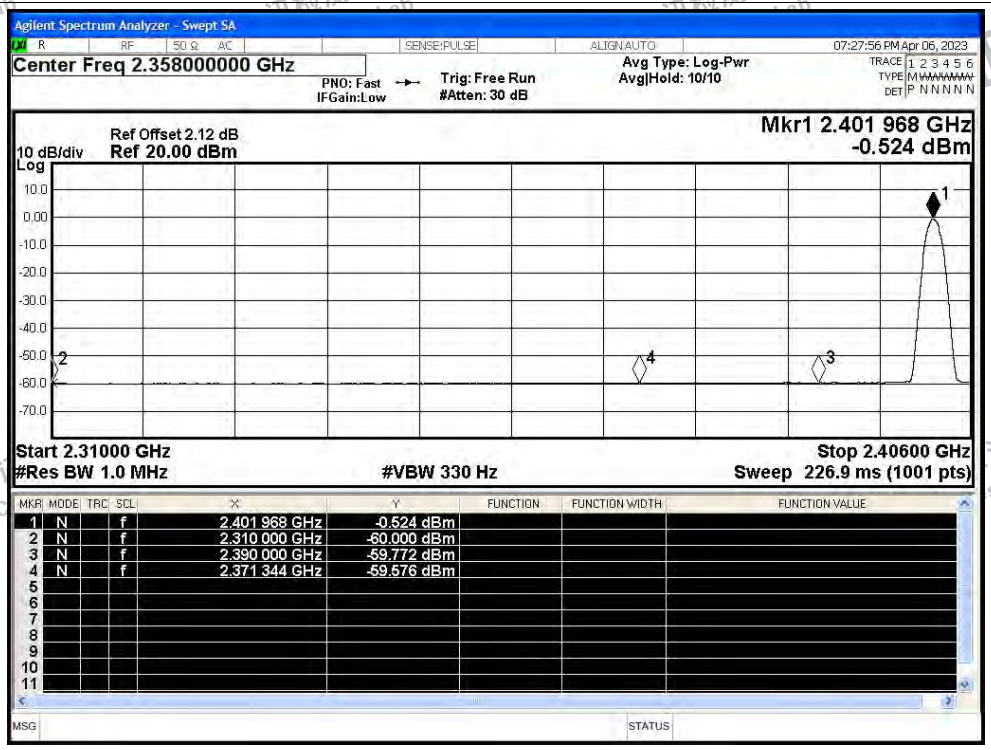
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVLT	1-DH5	2402	Ant1	No-Hopping	2310	-50.73	2.89	47.39	Peak	74	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2310	-60	2.89	38.12	Average	54	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2385.072	-46.76	2.89	51.36	Peak	74	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2371.344	-59.58	2.89	38.54	Average	54	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2390	-49.97	2.89	48.15	Peak	74	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2390	-59.77	2.89	38.35	Average	54	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.36	2.89	47.76	Peak	74	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.25	2.89	38.87	Average	54	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2496.472	-46.08	2.89	52.04	Peak	74	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2493.712	-59.14	2.89	38.98	Average	54	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2500	-48.43	2.89	49.69	Peak	74	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2500	-59.32	2.89	38.80	Average	54	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2310	-51.06	2.89	47.06	Peak	74	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2310	-60.09	2.89	38.03	Average	54	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2378.448	-46.76	2.89	51.36	Peak	74	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2379.984	-59.53	2.89	38.59	Average	54	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2390	-51.23	2.89	46.89	Peak	74	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2390	-59.66	2.89	38.46	Average	54	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.96	2.89	49.16	Peak	74	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.62	2.89	39.50	Average	54	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2484.736	-45.64	2.89	52.48	Peak	74	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2483.512	-58.62	2.89	39.50	Average	54	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2500	-49.26	2.89	48.86	Peak	74	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2500	-59.46	2.89	38.66	Average	54	Pass
NVLT	3-DH5	2402	Ant1	No-Hopping	2310	-50.01	2.89	48.11	Peak	74	Pass
NVLT	3-DH5	2402	Ant1	No-Hopping	2310	-60.05	2.89	38.07	Average	54	Pass
NVLT	3-DH5	2402	Ant1	No-Hopping	2368.176	-47.61	2.89	50.51	Peak	74	Pass
NVLT	3-DH5	2402	Ant1	No-Hopping	2388.24	-59.45	2.89	38.67	Average	54	Pass
NVLT	3-DH5	2402	Ant1	No-Hopping	2390	-50.02	2.89	48.10	Peak	74	Pass
NVLT	3-DH5	2402	Ant1	No-Hopping	2390	-59.73	2.89	38.39	Average	54	Pass
NVLT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.72	2.89	47.40	Peak	74	Pass
NVLT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.64	2.89	39.48	Average	54	Pass
NVLT	3-DH5	2480	Ant1	No-Hopping	2492.68	-45.93	2.89	52.19	Peak	74	Pass
NVLT	3-DH5	2480	Ant1	No-Hopping	2483.512	-58.64	2.89	39.48	Average	54	Pass
NVLT	3-DH5	2480	Ant1	No-Hopping	2500	-50.67	2.89	47.45	Peak	74	Pass
NVLT	3-DH5	2480	Ant1	No-Hopping	2500	-59.3	2.89	38.82	Average	54	Pass

Test Graphs

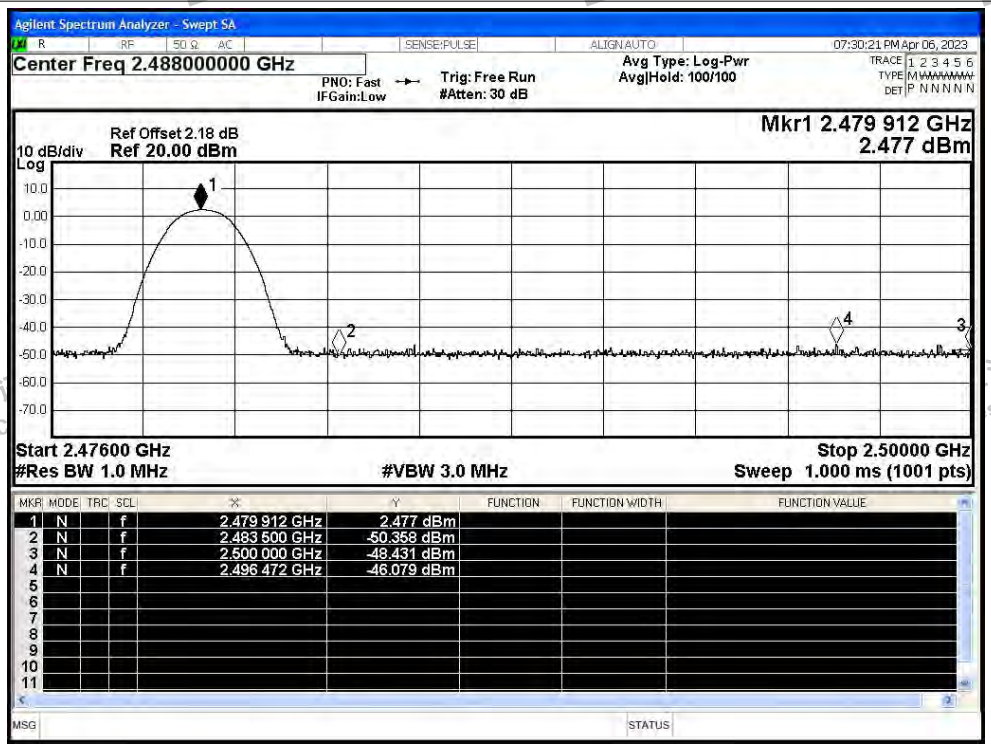
Restrict Band NVLT 1-DH5 2402MHz Ant1 No-Hopping Peak



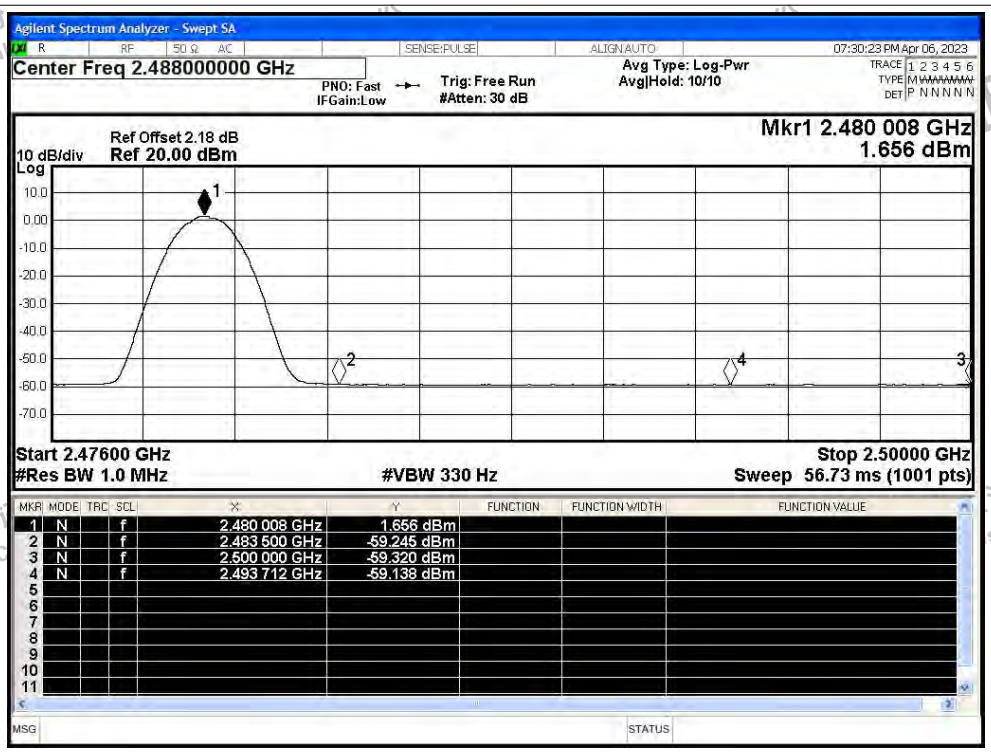
Restrict Band NVLT 1-DH5 2402MHz Ant1 No-Hopping Average



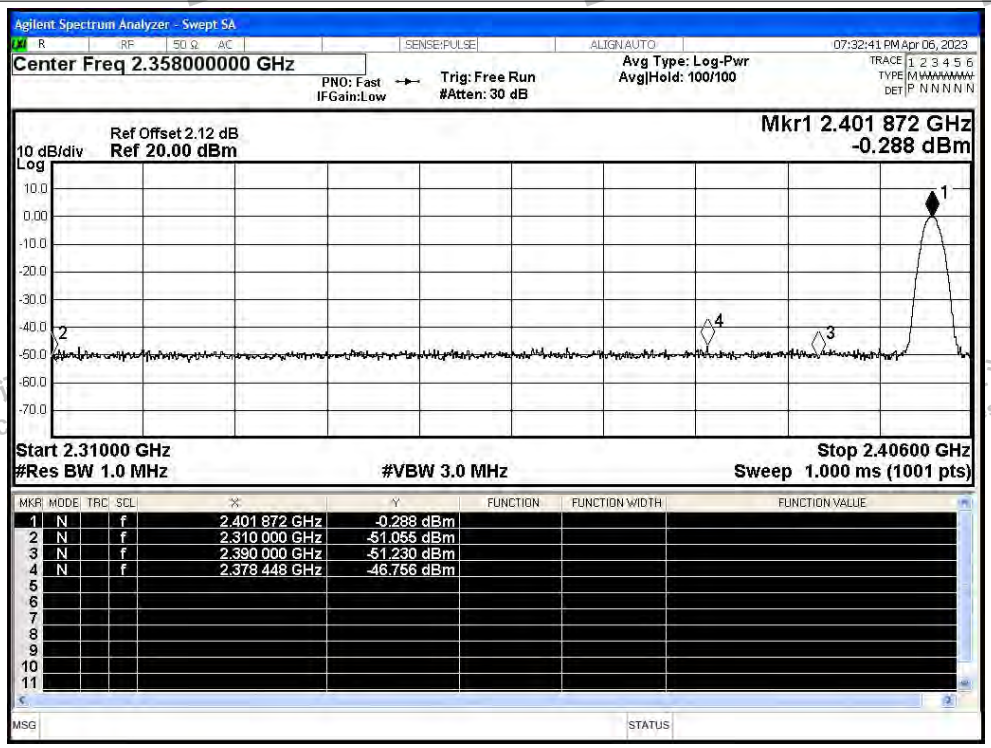
Restrict Band NVLT 1-DH5 2480MHz Ant1 No-Hopping Peak



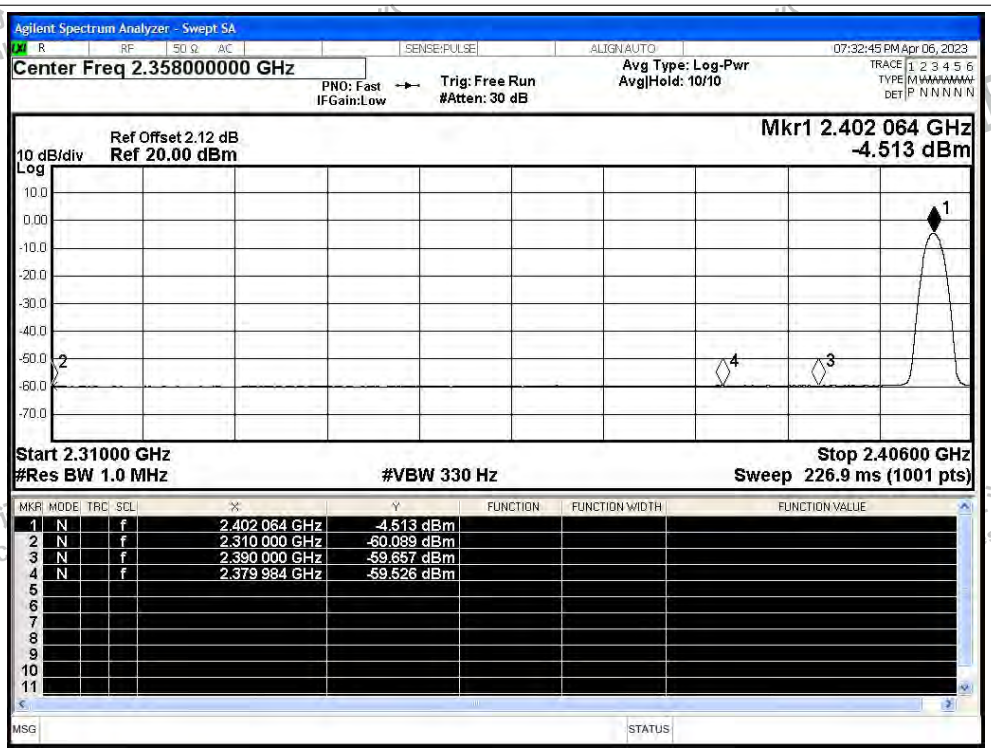
Restrict Band NVLT 1-DH5 2480MHz Ant1 No-Hopping Average



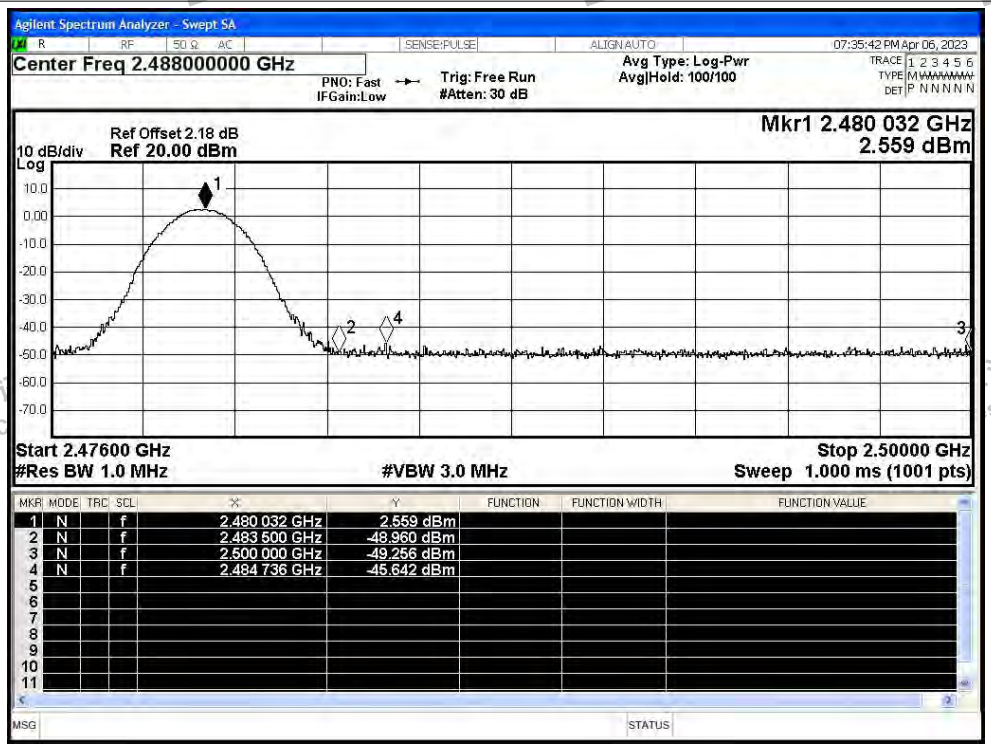
Restrict Band NVLT 2-DH5 2402MHz Ant1 No-Hopping Peak



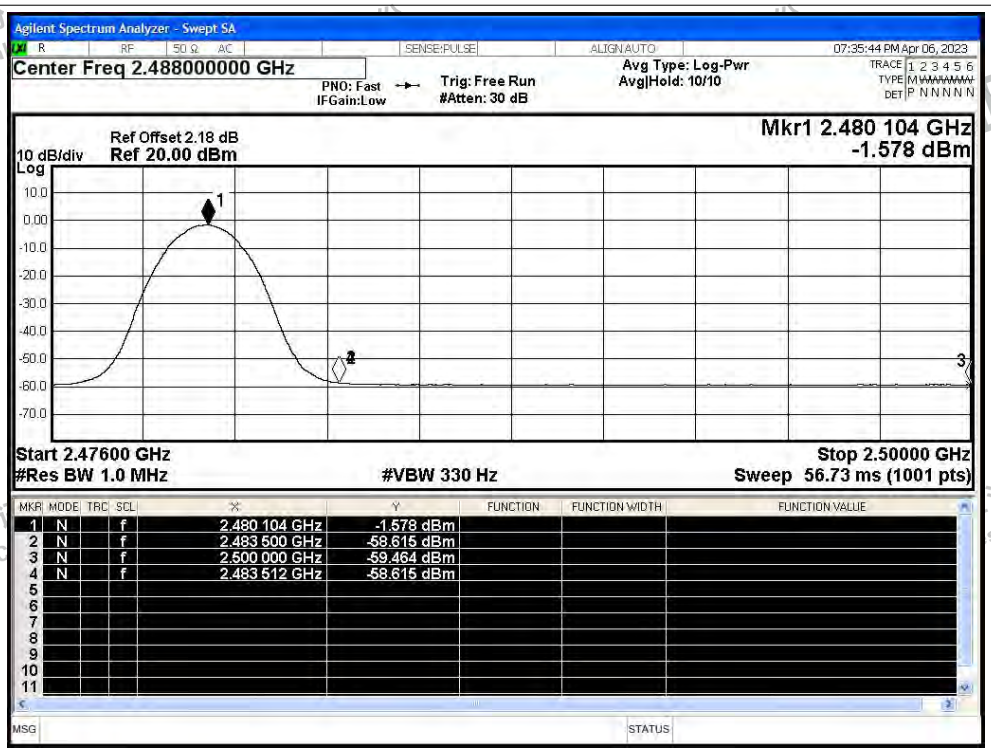
Restrict Band NVLT 2-DH5 2402MHz Ant1 No-Hopping Average



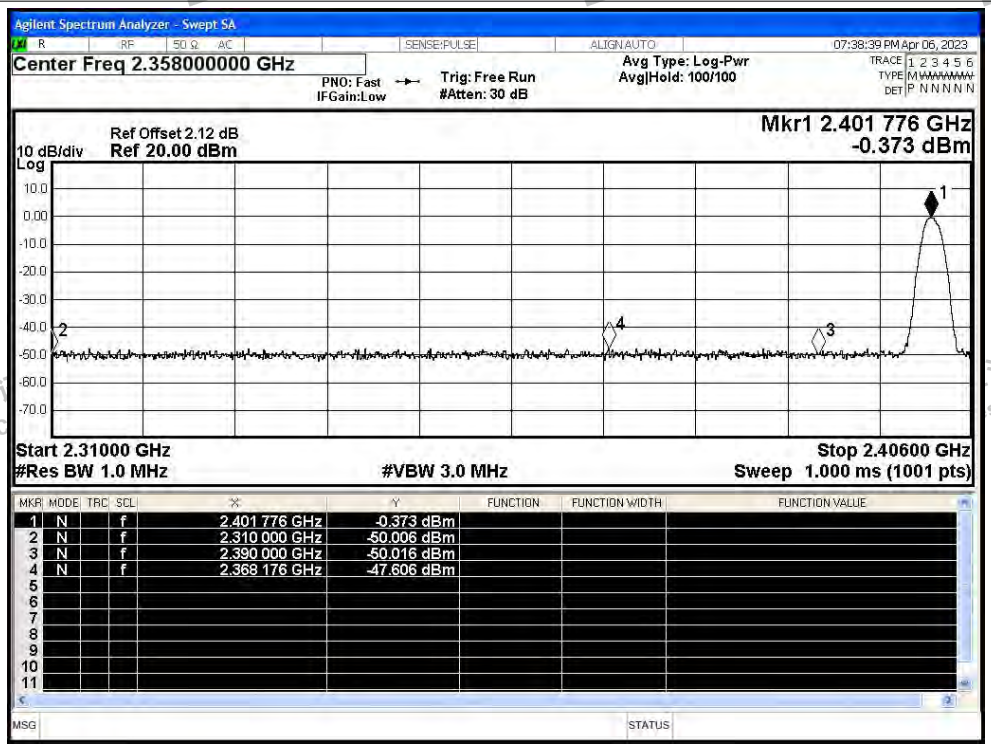
Restrict Band NVLT 2-DH5 2480MHz Ant1 No-Hopping Peak



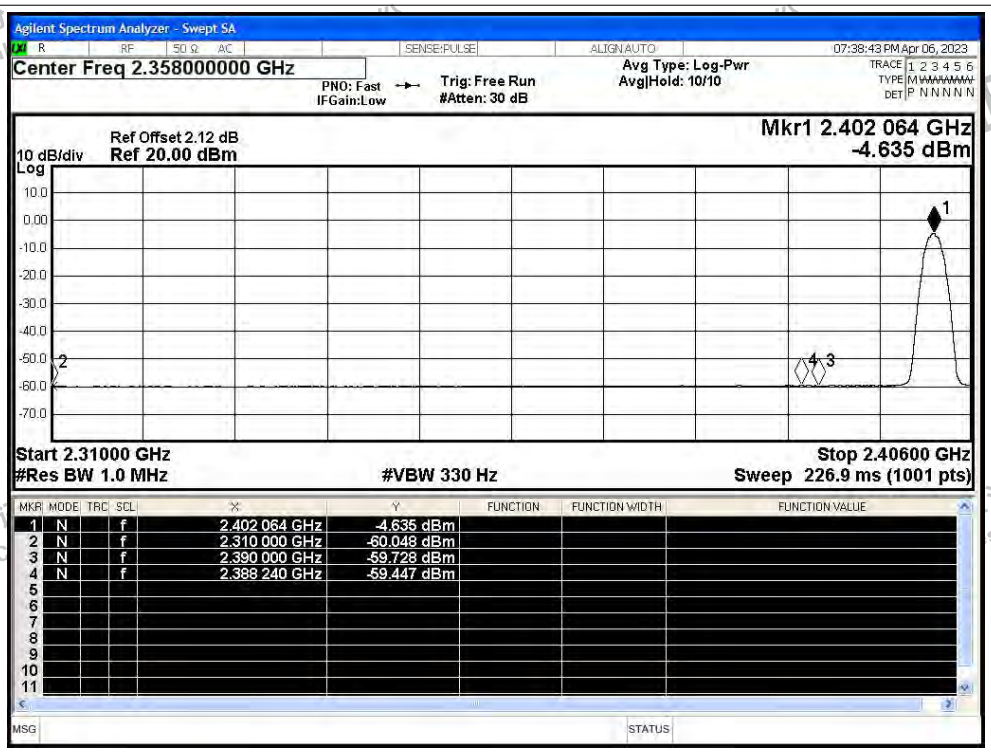
Restrict Band NVLT 2-DH5 2480MHz Ant1 No-Hopping Average



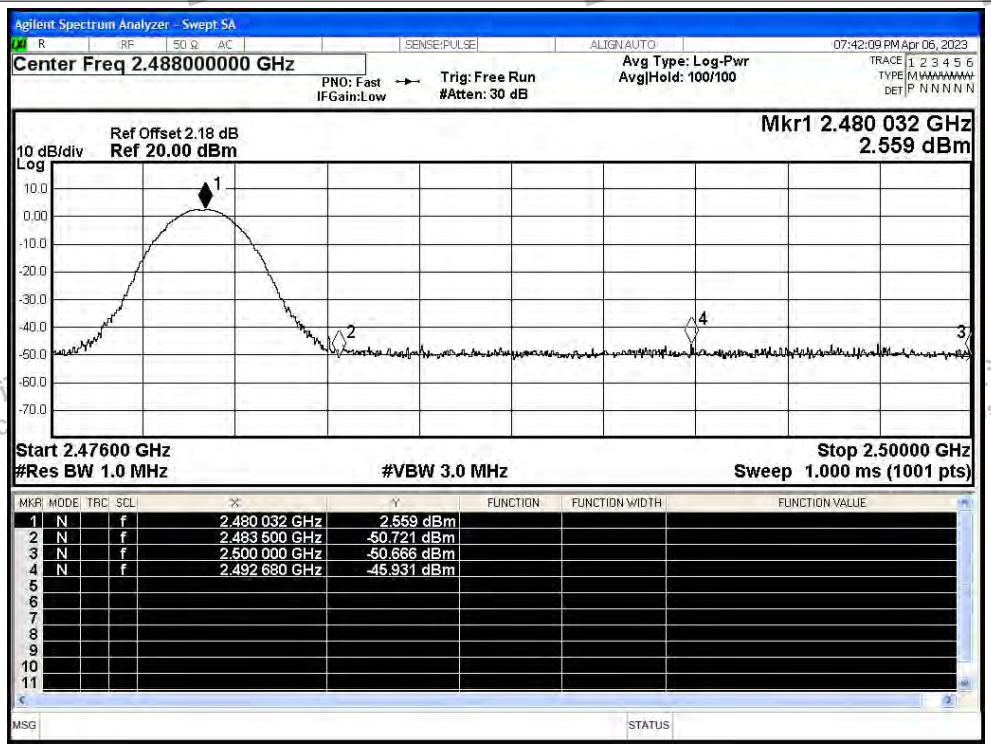
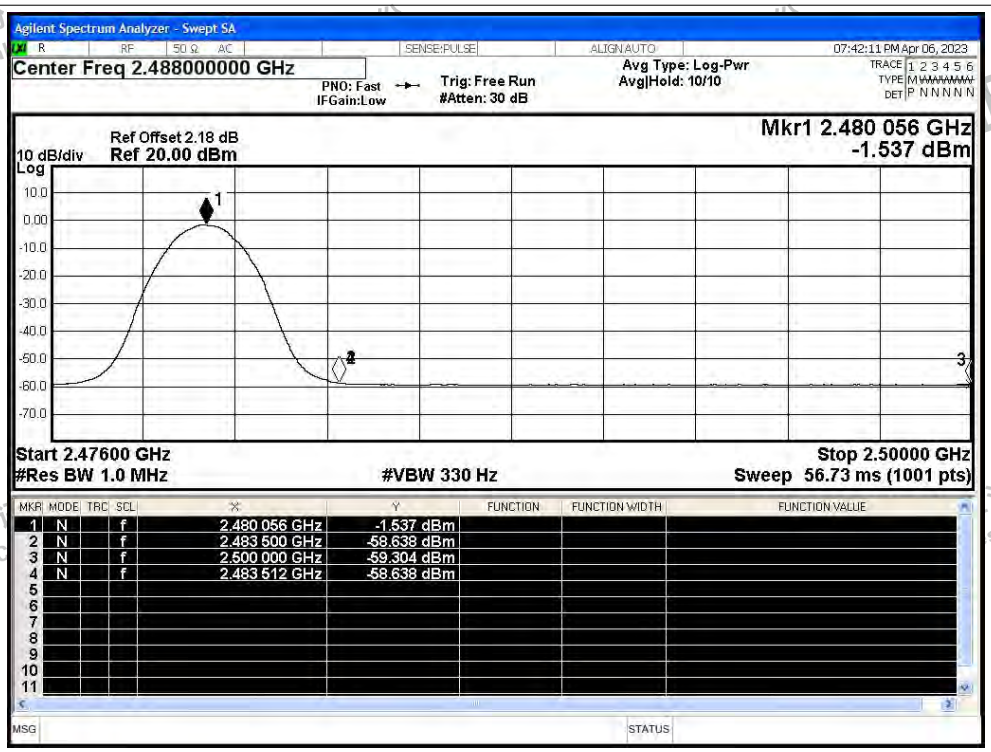
Restrict Band NVLT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



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



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