



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Laptop

Test Model: AX15

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





### A.1 -20dB Bandwidth

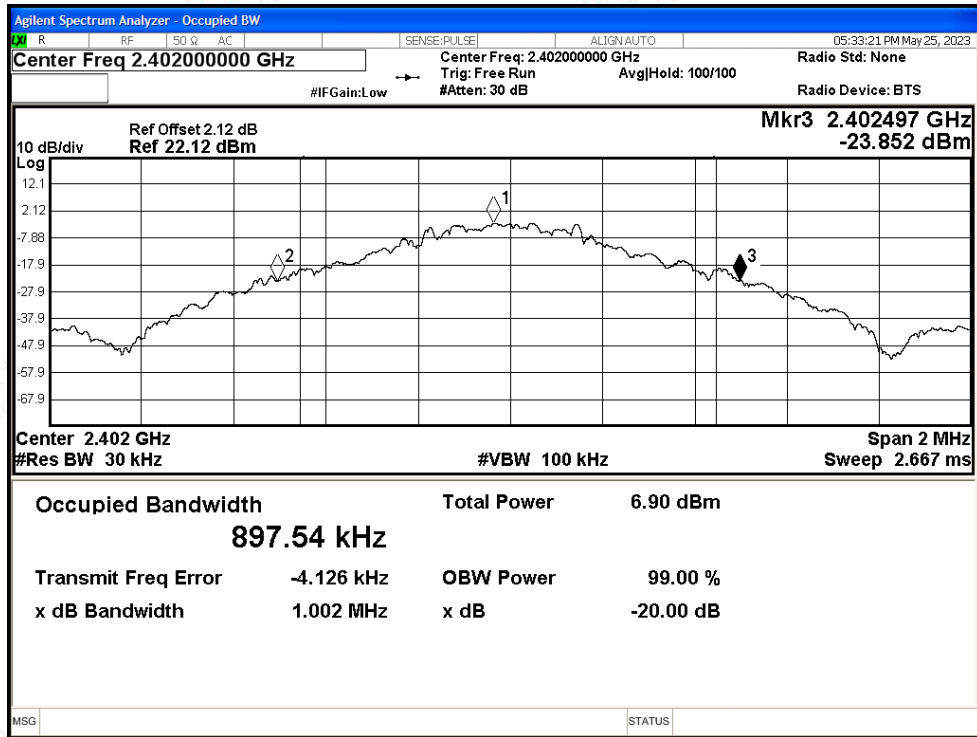
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	1.002	N/A	Pass
NVNT	1-DH5	2441	Ant	0.958	N/A	Pass
NVNT	1-DH5	2480	Ant	1.04	N/A	Pass
NVNT	2-DH5	2402	Ant	1.281	N/A	Pass
NVNT	2-DH5	2441	Ant	1.325	N/A	Pass
NVNT	2-DH5	2480	Ant	1.288	N/A	Pass
NVNT	3-DH5	2402	Ant	1.279	N/A	Pass
NVNT	3-DH5	2441	Ant	1.3	N/A	Pass
NVNT	3-DH5	2480	Ant	1.272	N/A	Pass



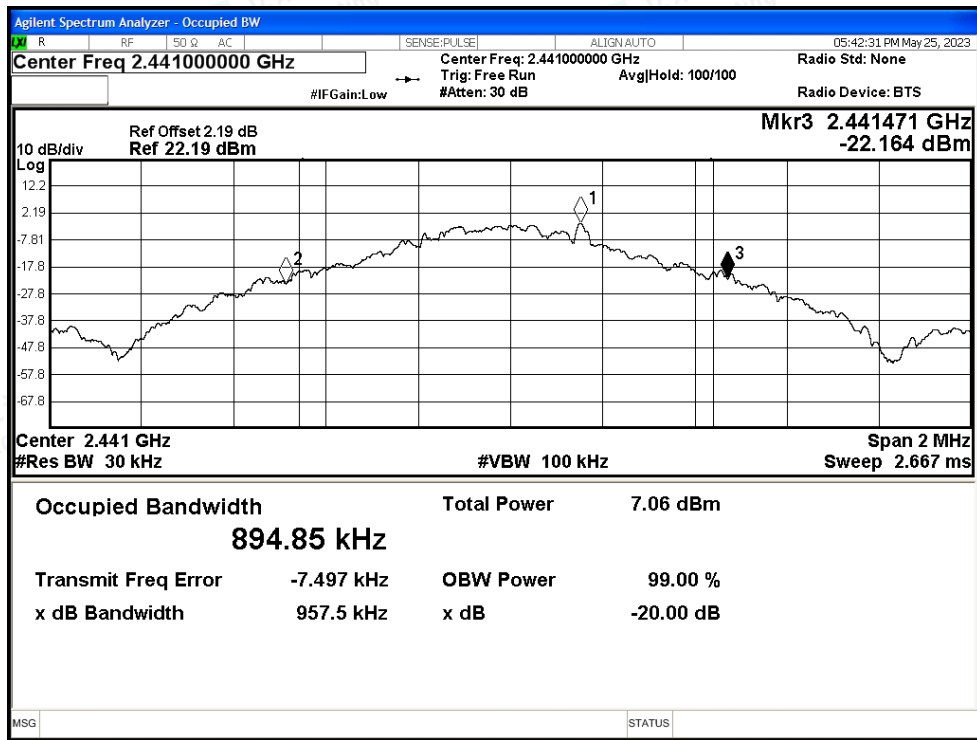


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant

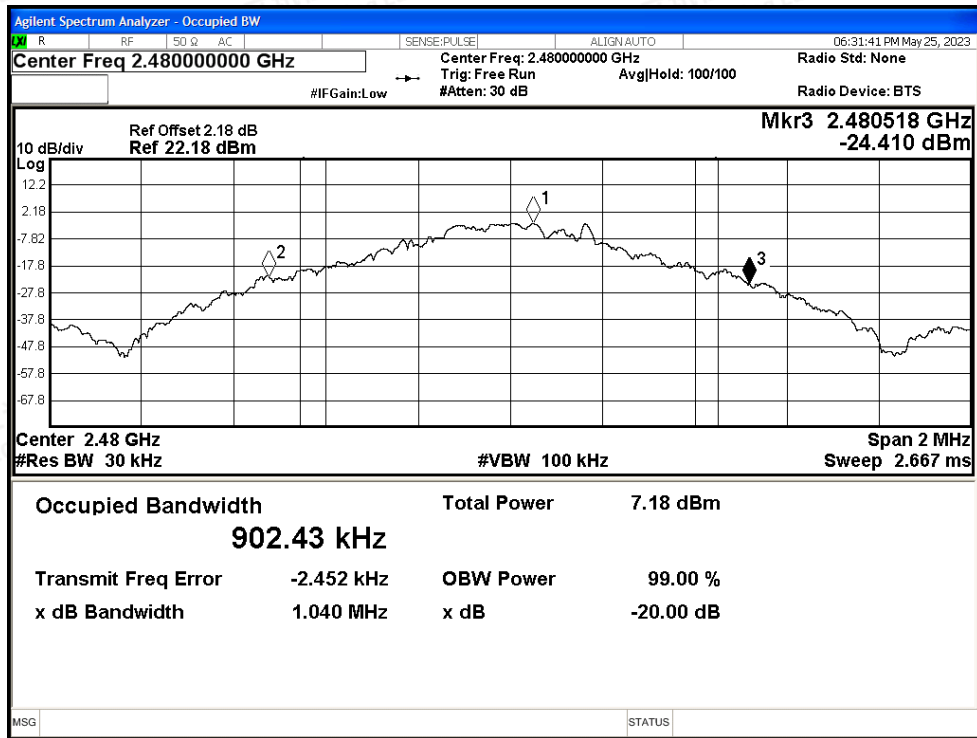


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

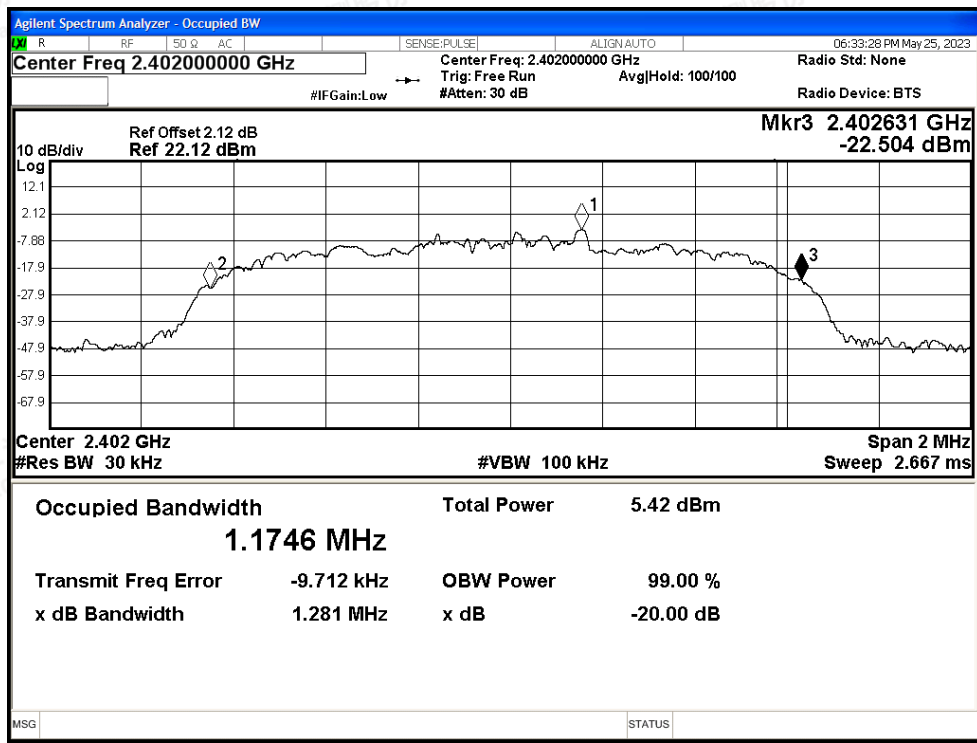




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

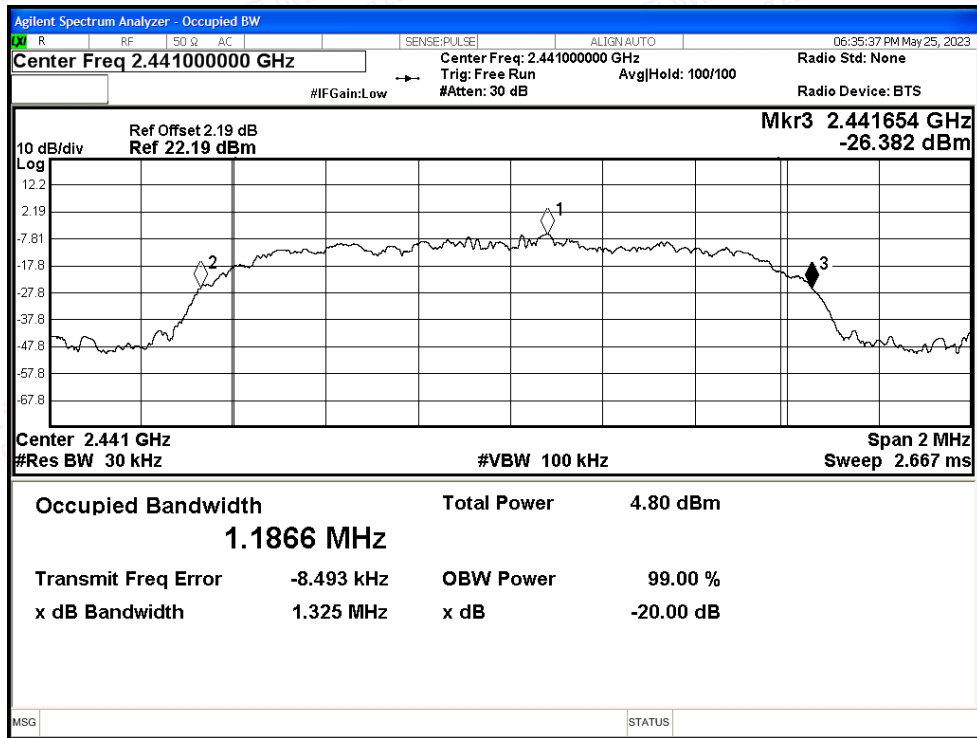


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

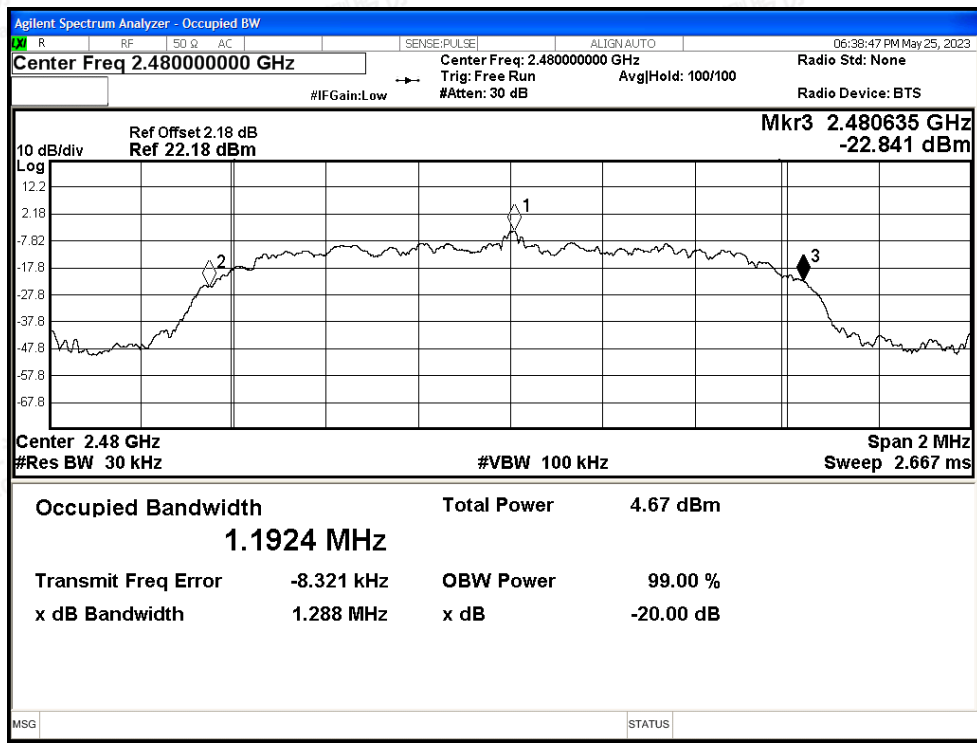




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

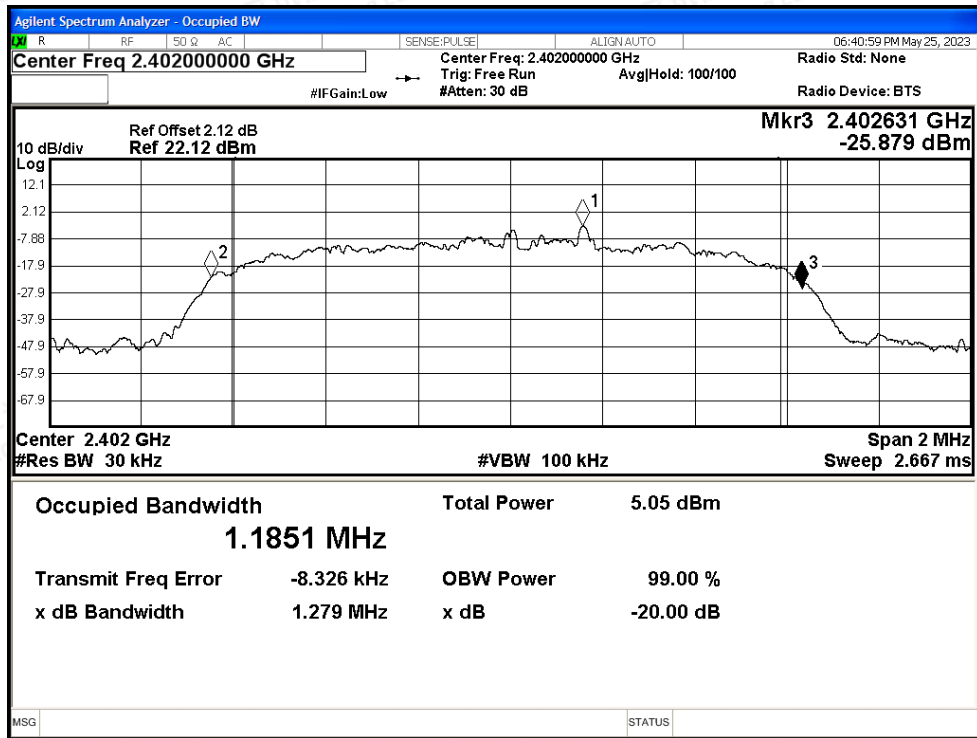


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

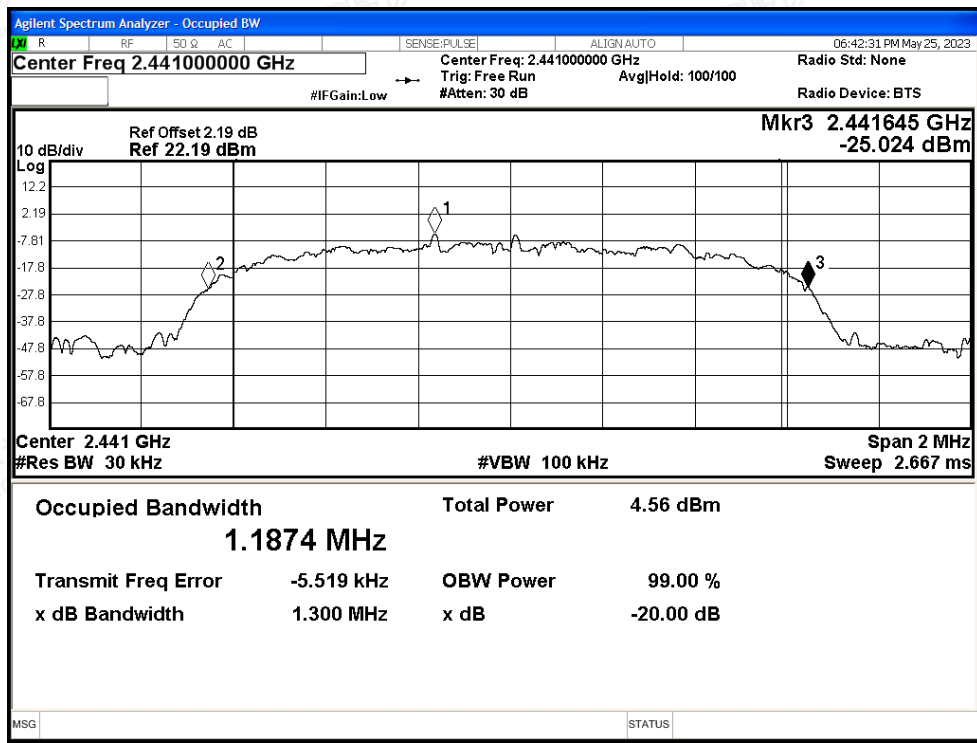


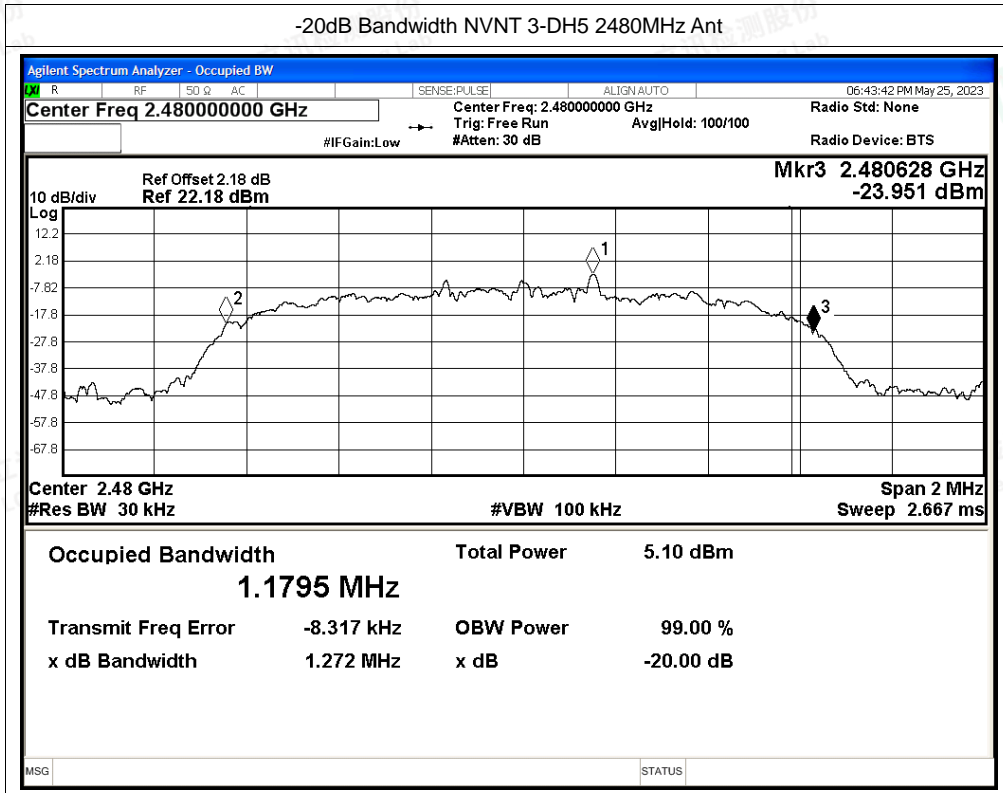


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant







## A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	0.51	21	Pass
NVNT	1-DH5	2441	Ant	0.71	21	Pass
NVNT	1-DH5	2480	Ant	0.89	21	Pass
NVNT	2-DH5	2402	Ant	0.44	21	Pass
NVNT	2-DH5	2441	Ant	0.6	21	Pass
NVNT	2-DH5	2480	Ant	0.64	21	Pass
NVNT	3-DH5	2402	Ant	0.48	21	Pass
NVNT	3-DH5	2441	Ant	0.61	21	Pass
NVNT	3-DH5	2480	Ant	0.65	21	Pass

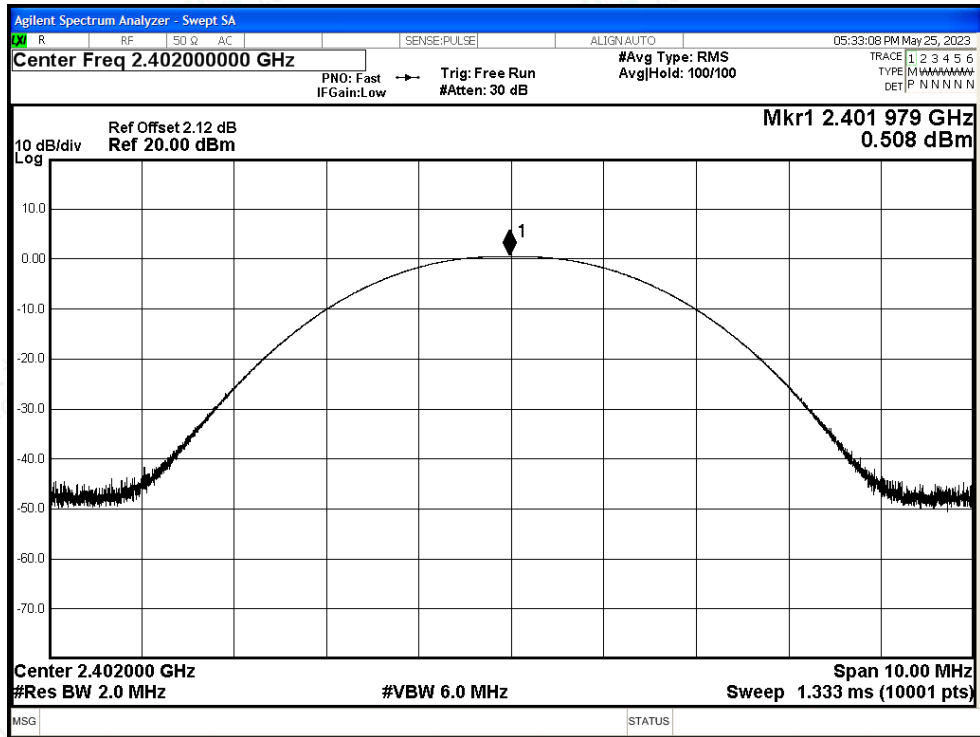




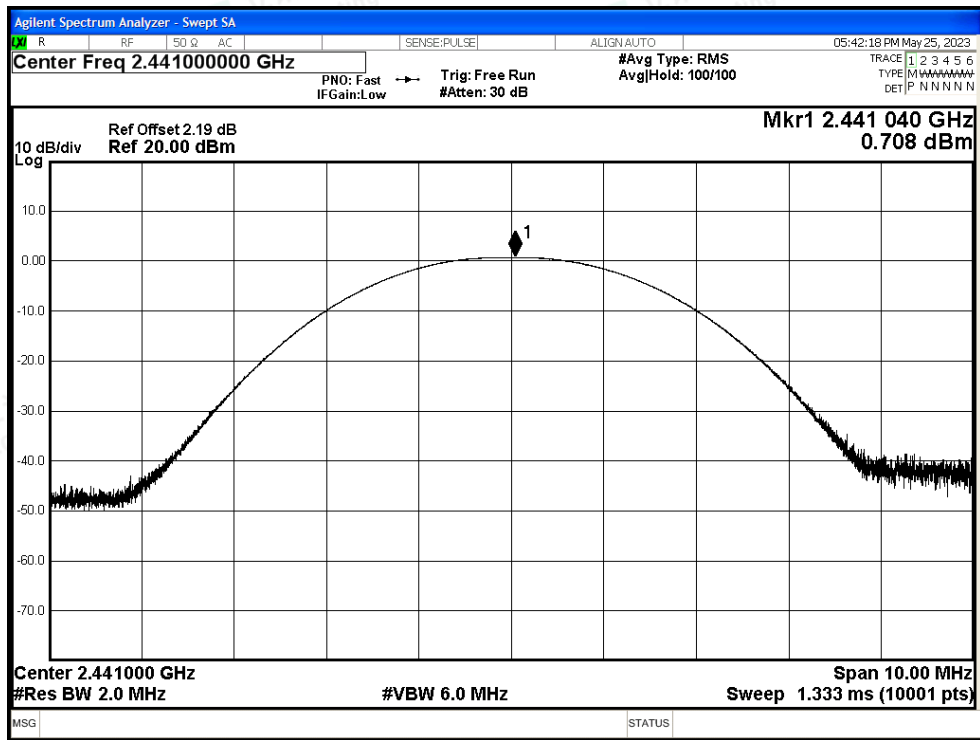


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

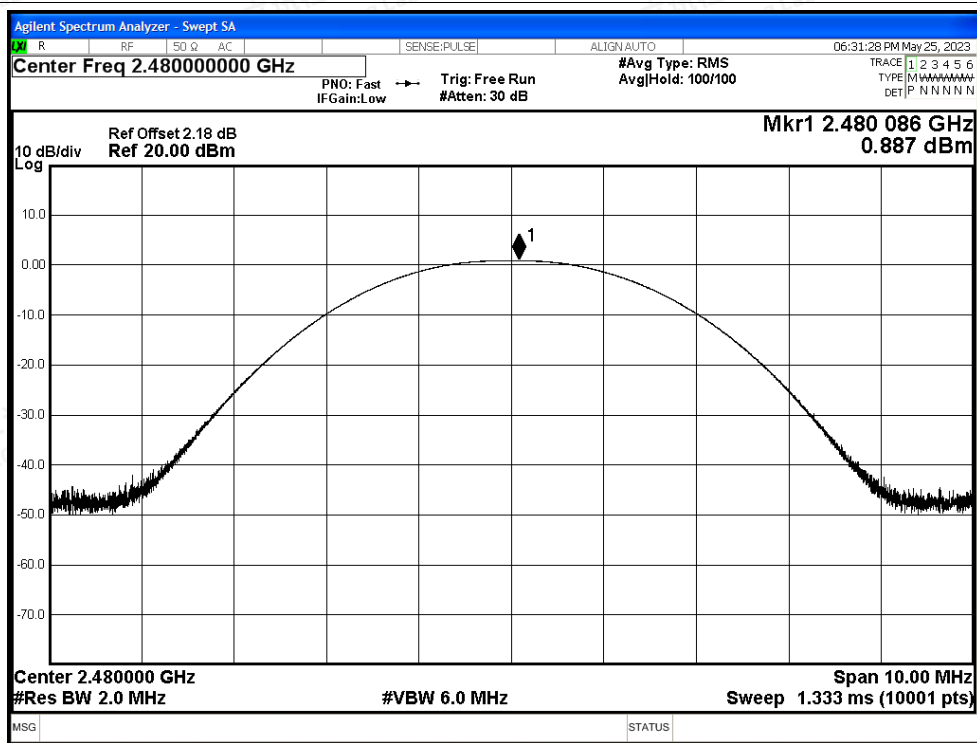


Power NVNT 1-DH5 2441MHz Ant

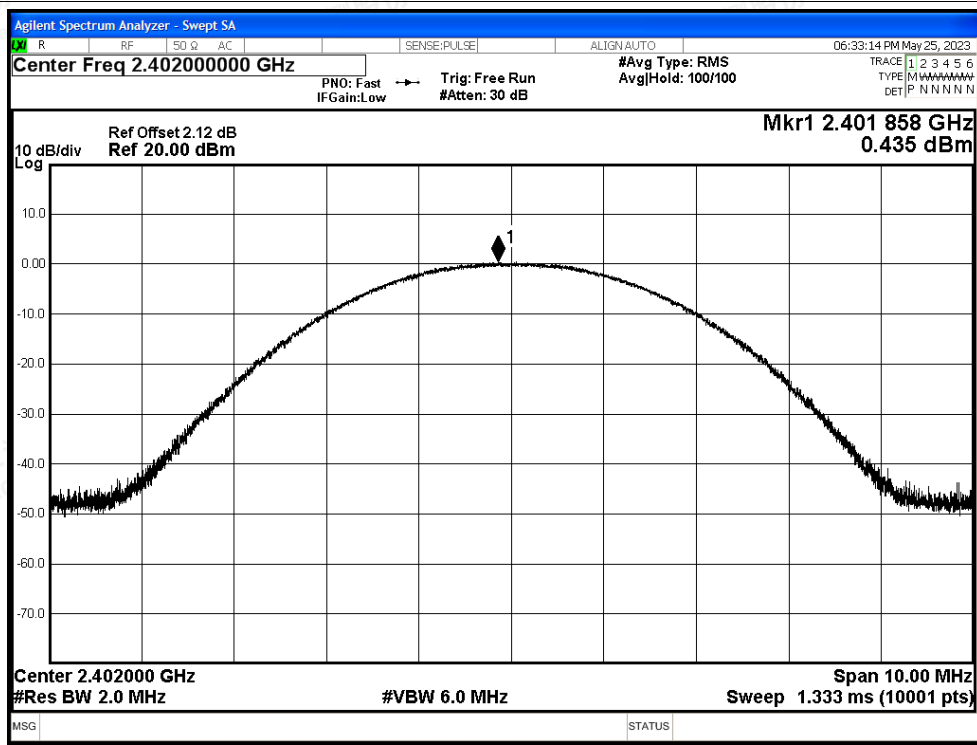




Power NVNT 1-DH5 2480MHz Ant

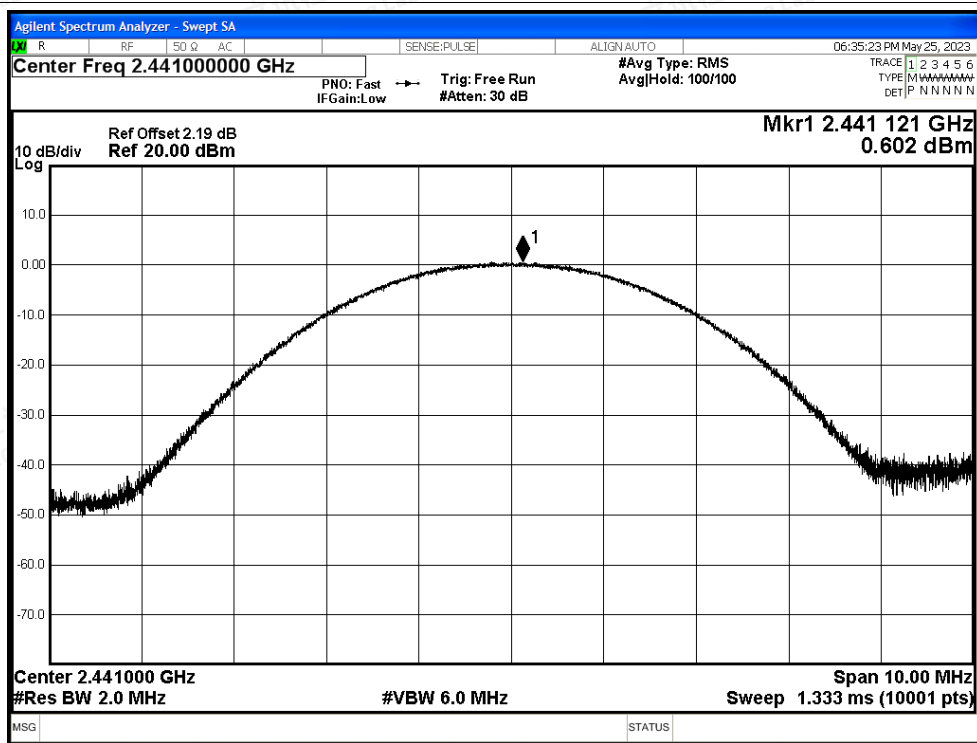


Power NVNT 2-DH5 2402MHz Ant

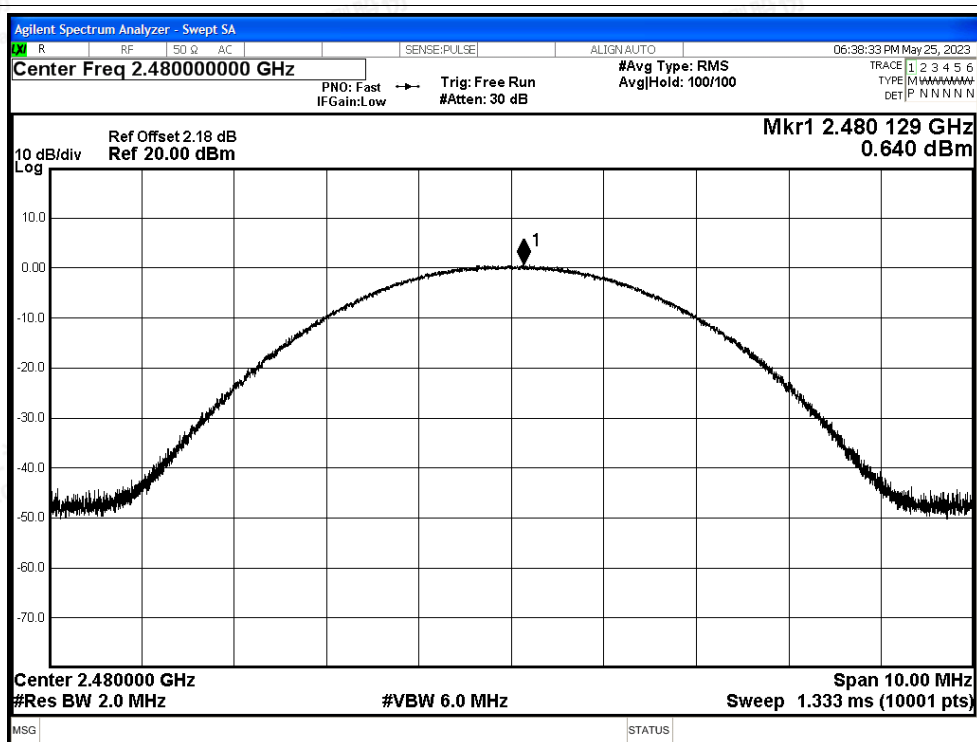




Power NVNT 2-DH5 2441MHz Ant

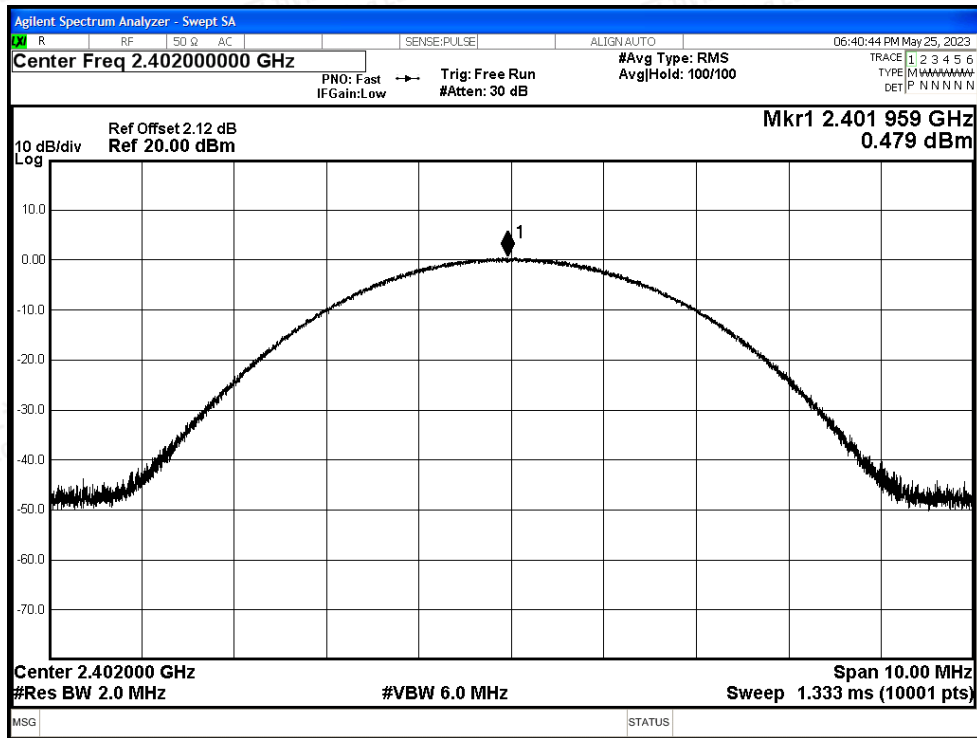


Power NVNT 2-DH5 2480MHz Ant

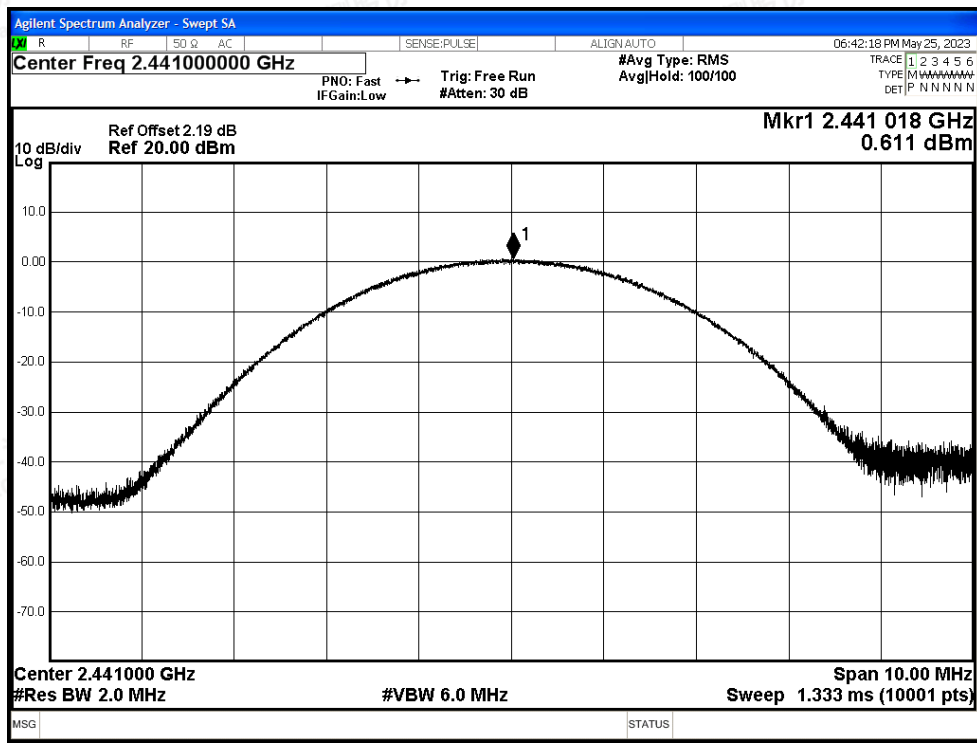




Power NVNT 3-DH5 2402MHz Ant

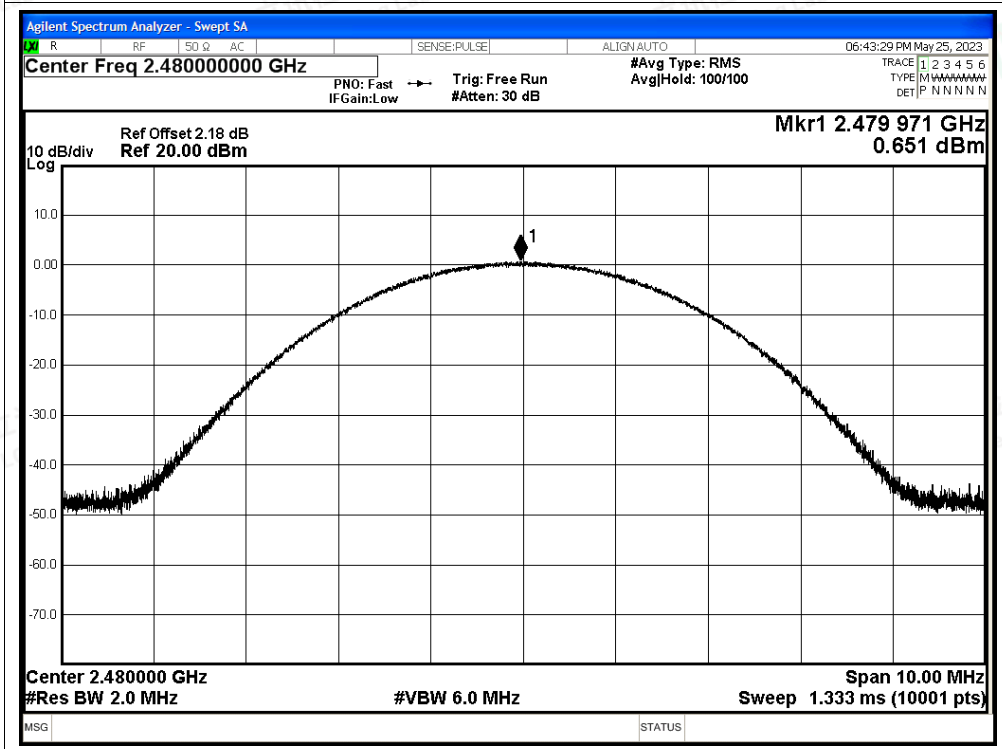


Power NVNT 3-DH5 2441MHz Ant





Power NVNT 3-DH5 2480MHz Ant





### A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.966	2402.966	1	0.693	Pass
NVNT	2-DH5	Ant	2401.906	2403.154	1.248	0.883	Pass
NVNT	3-DH5	Ant	2402.006	2403.148	1.142	0.867	Pass

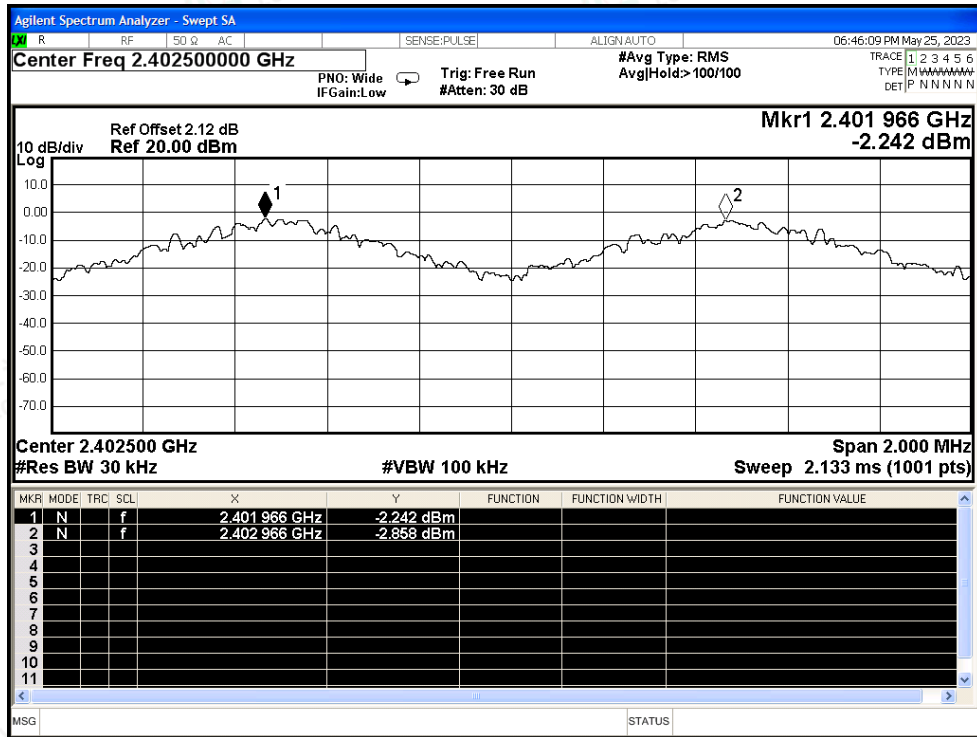


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

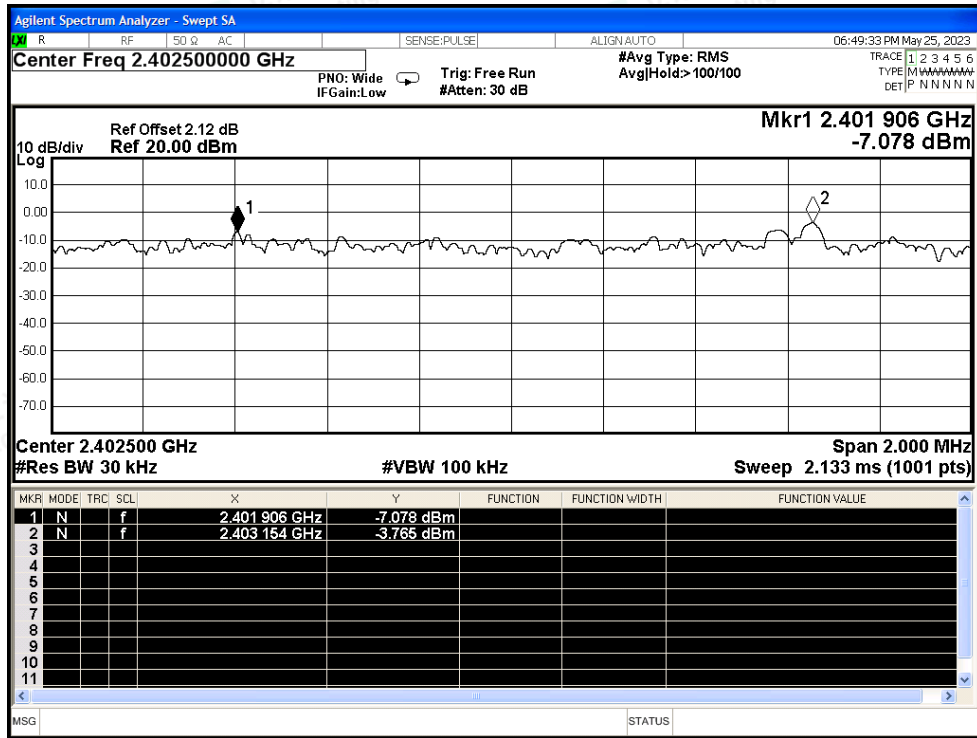


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant

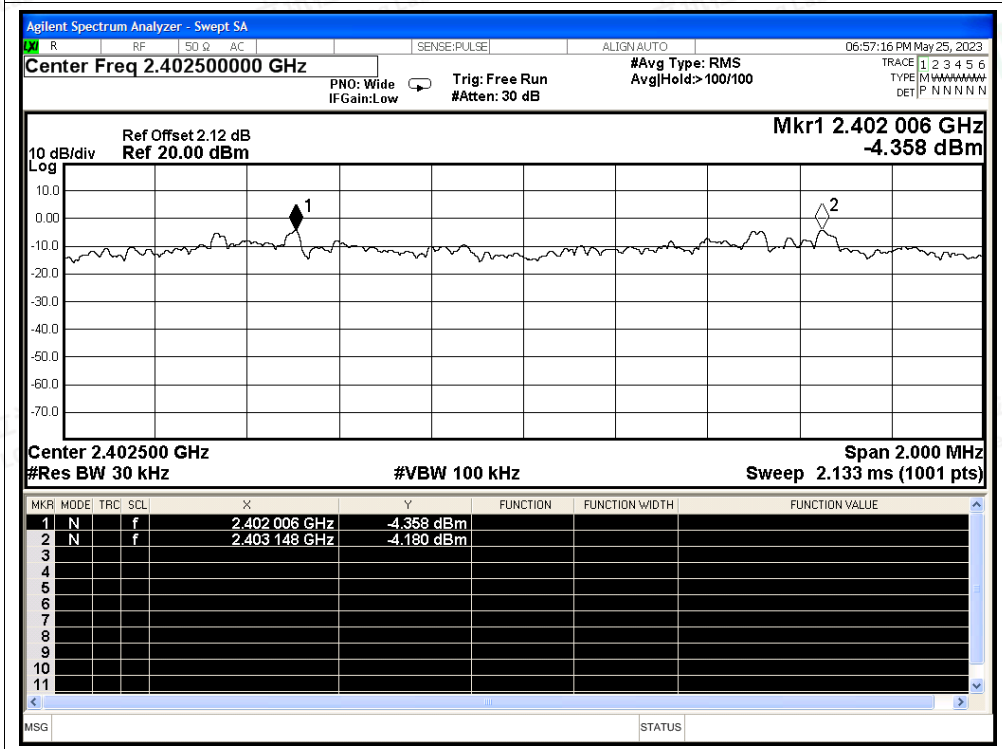


CFS NVNT 2-DH5 2402MHz Ant





CFS NVNT 3-DH5 2402MHz Ant







### 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	Ant	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.885	300.04	104	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.887	280.039	97	31600	400	Pass

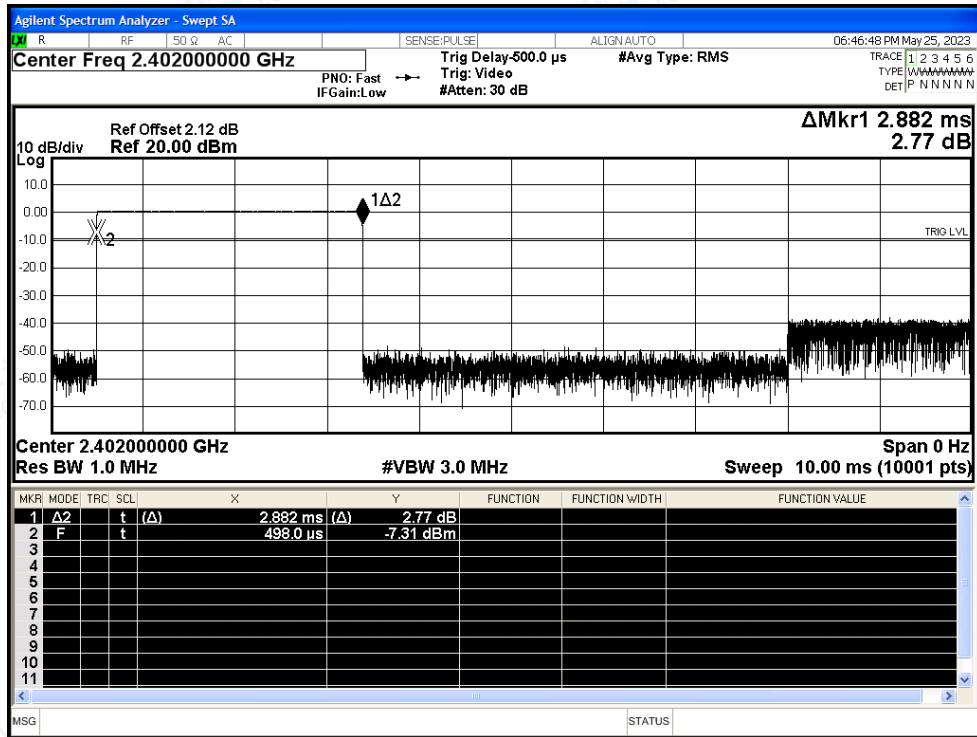


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

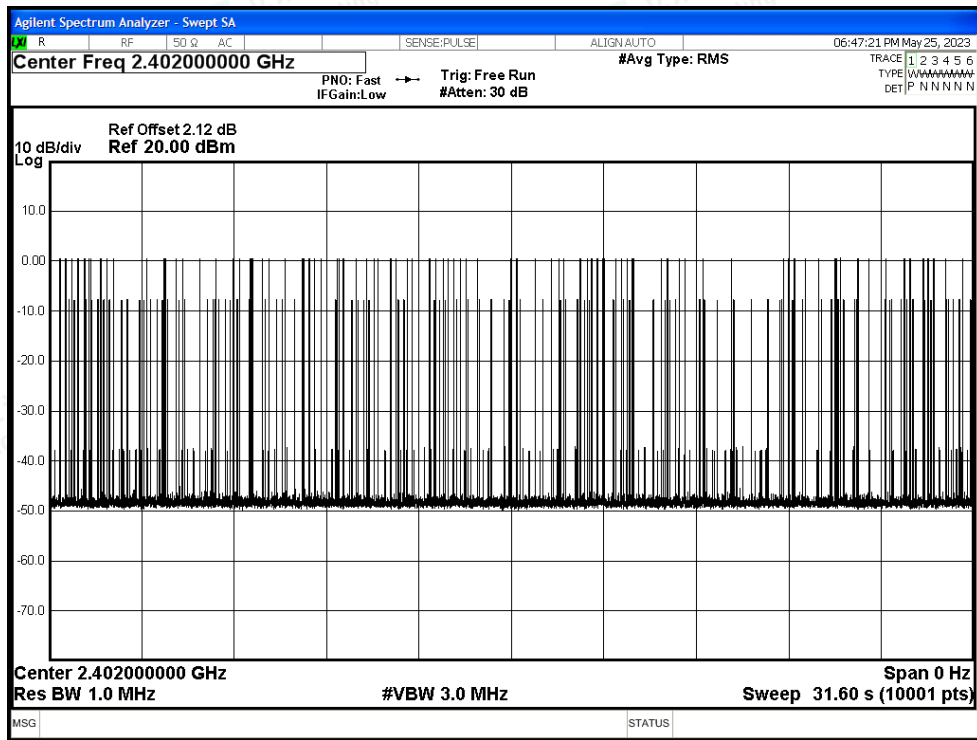


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst

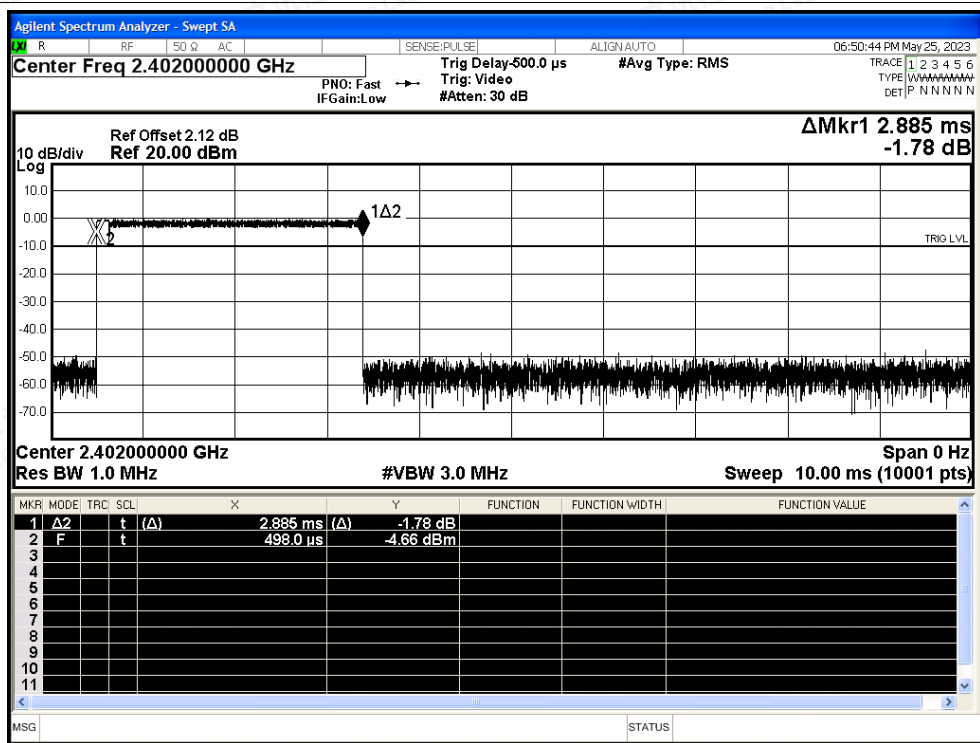


Dwell NVNT 1-DH5 2402MHz Ant Accumulated

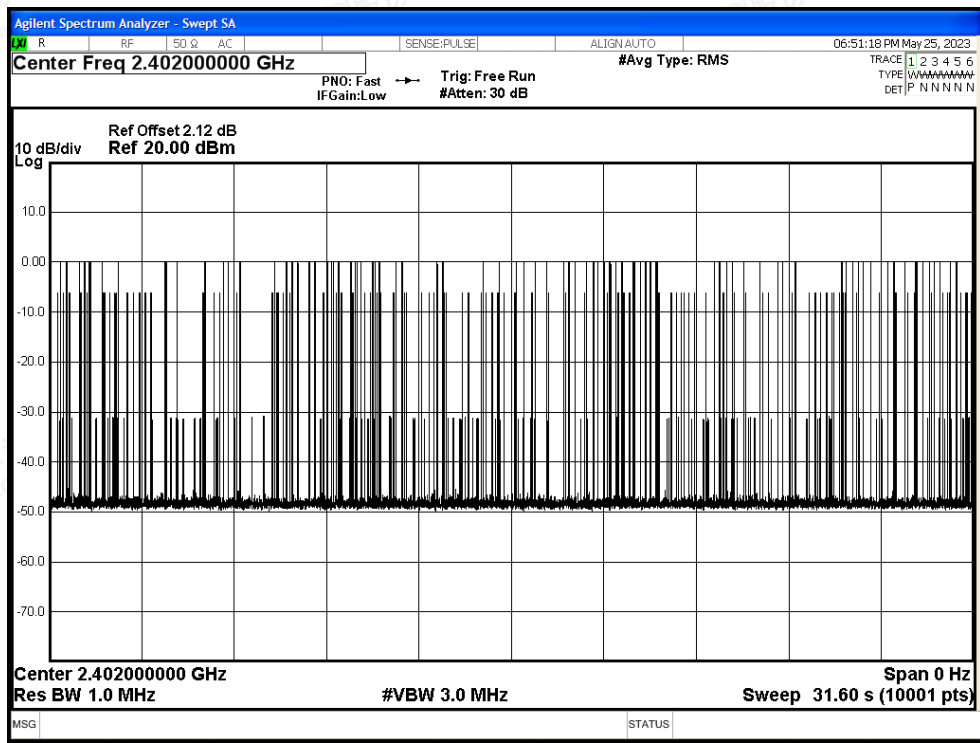




Dwell NVNT 2-DH5 2402MHz Ant One Burst

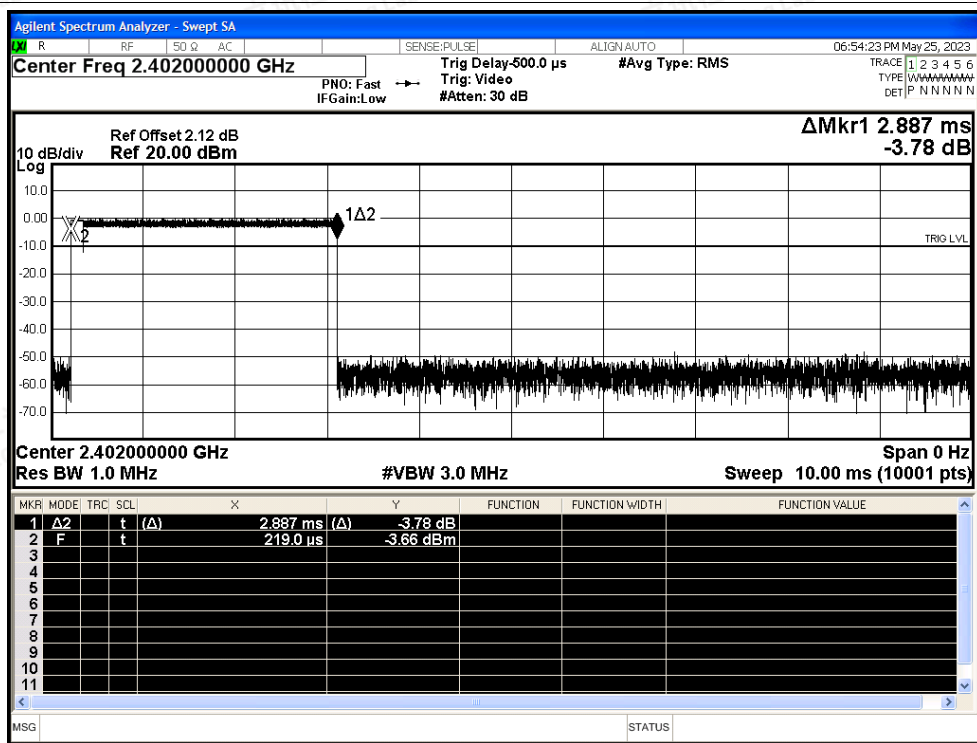


Dwell NVNT 2-DH5 2402MHz Ant Accumulated

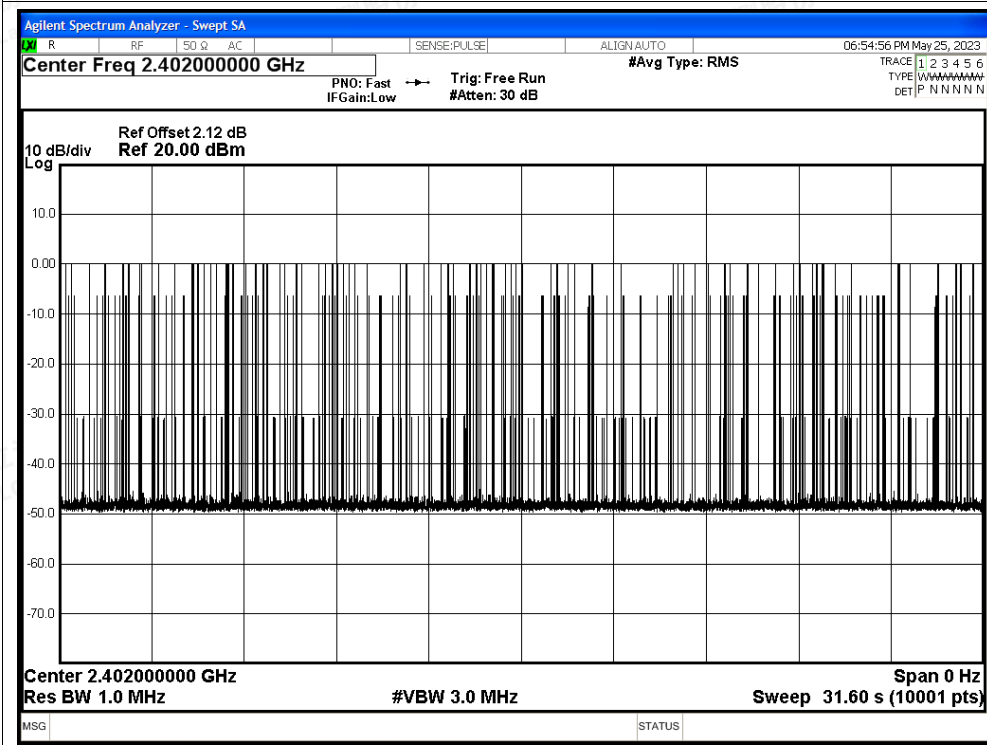




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





## A.5 Number of Hopping Channel

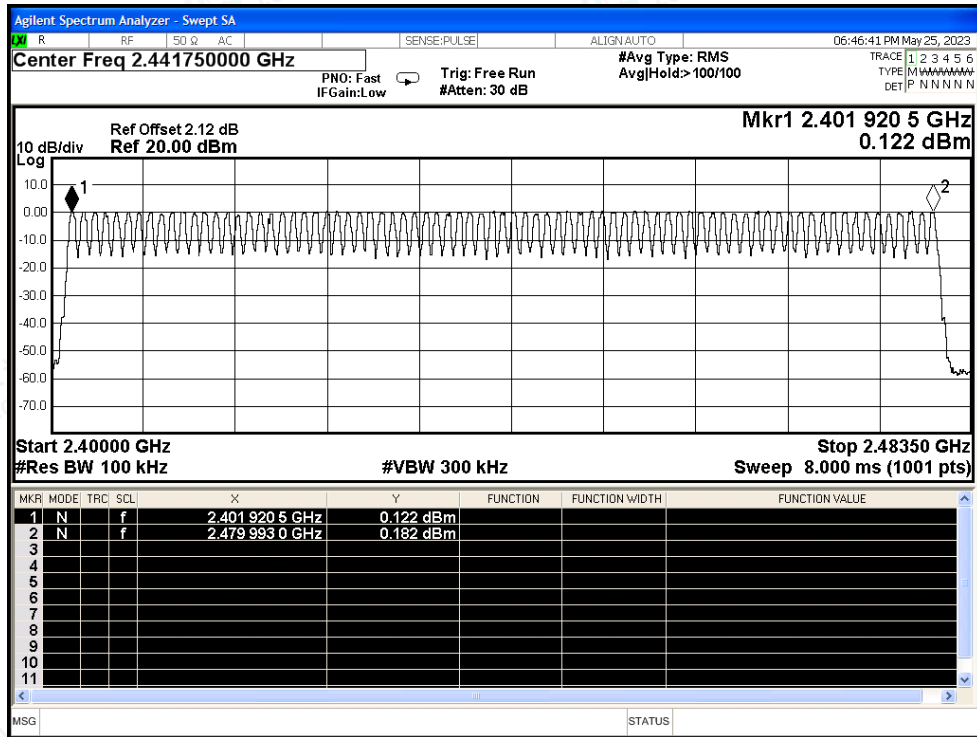
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



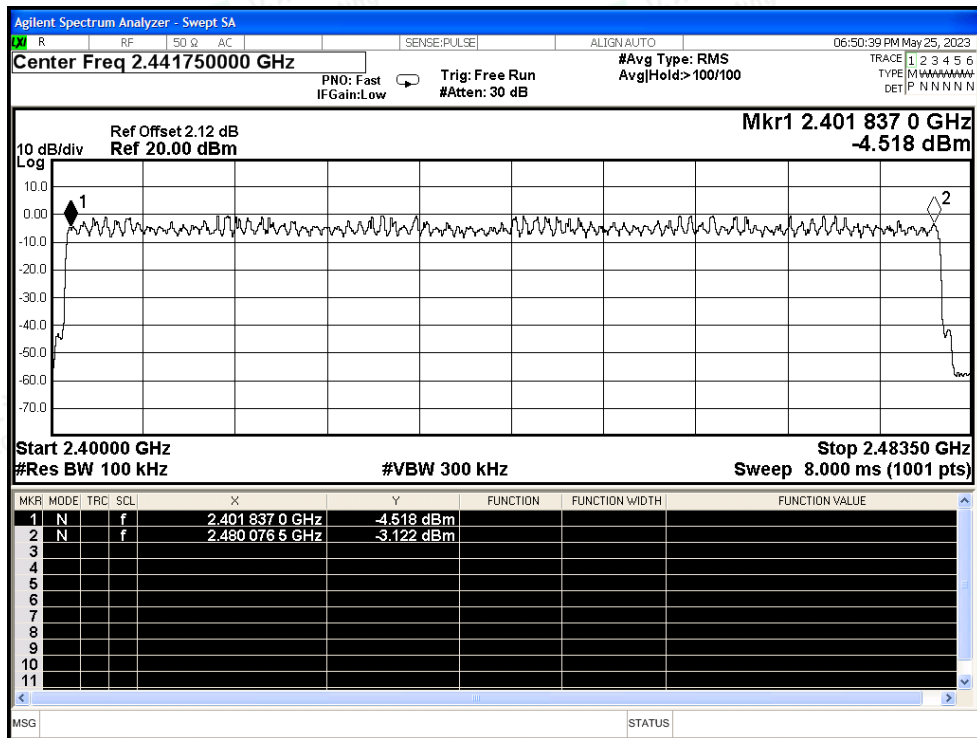


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant

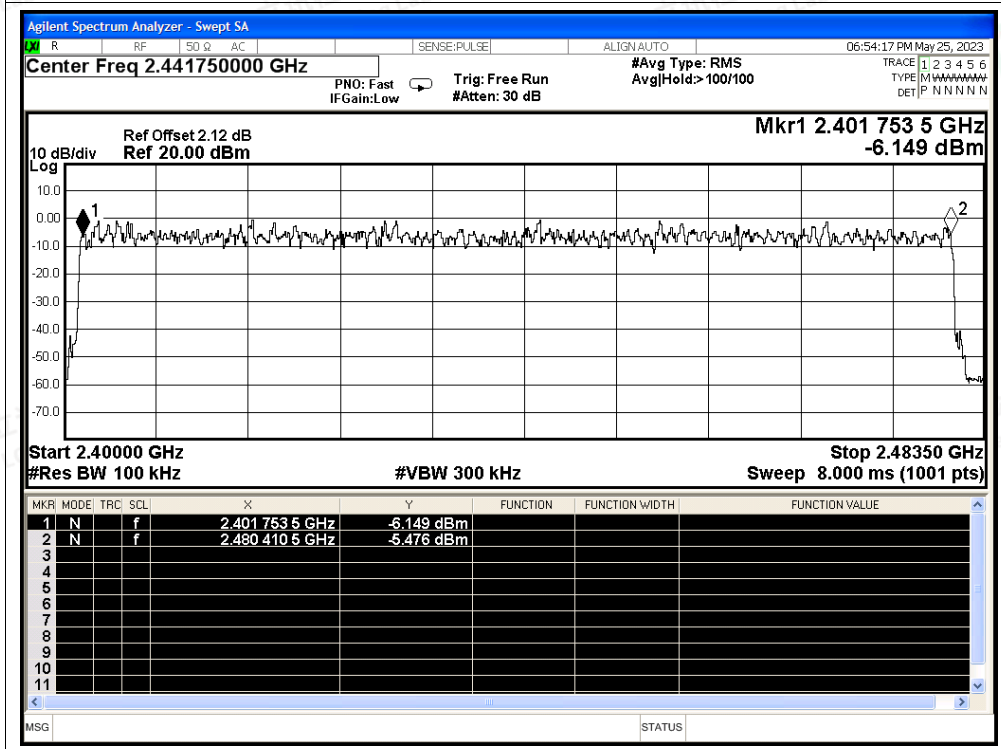


Hopping No. NVNT 2-DH5 2402MHz Ant





Hopping No. NVNT 3-DH5 2402MHz Ant





### A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-56.6	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-57.04	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-53.96	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-55.04	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-52.62	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-55.97	-20	Pass



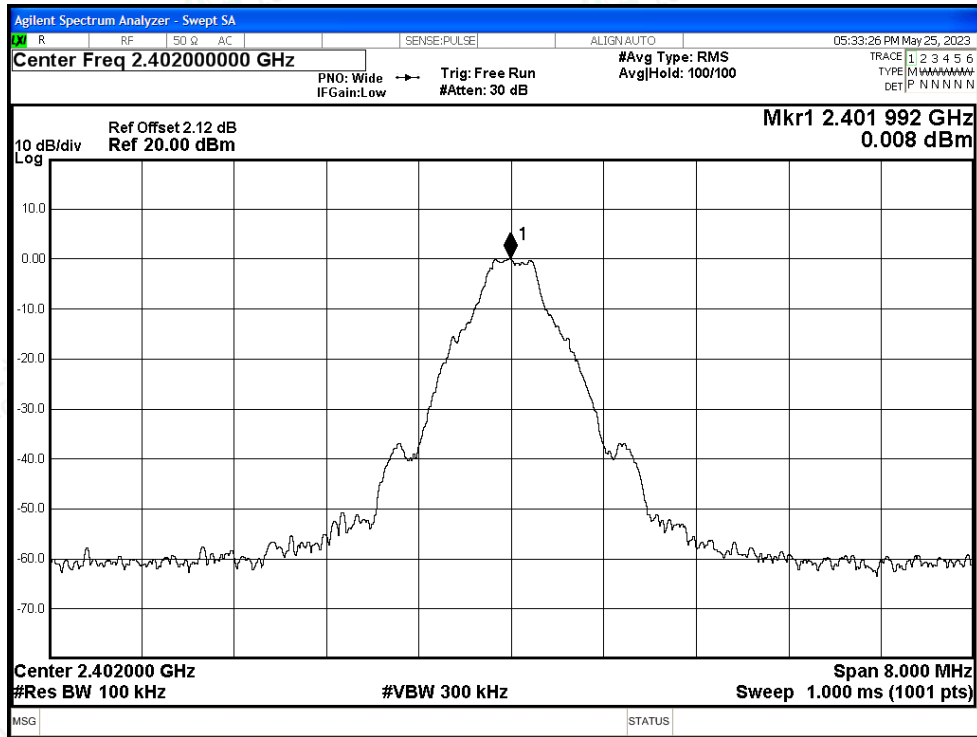
Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity



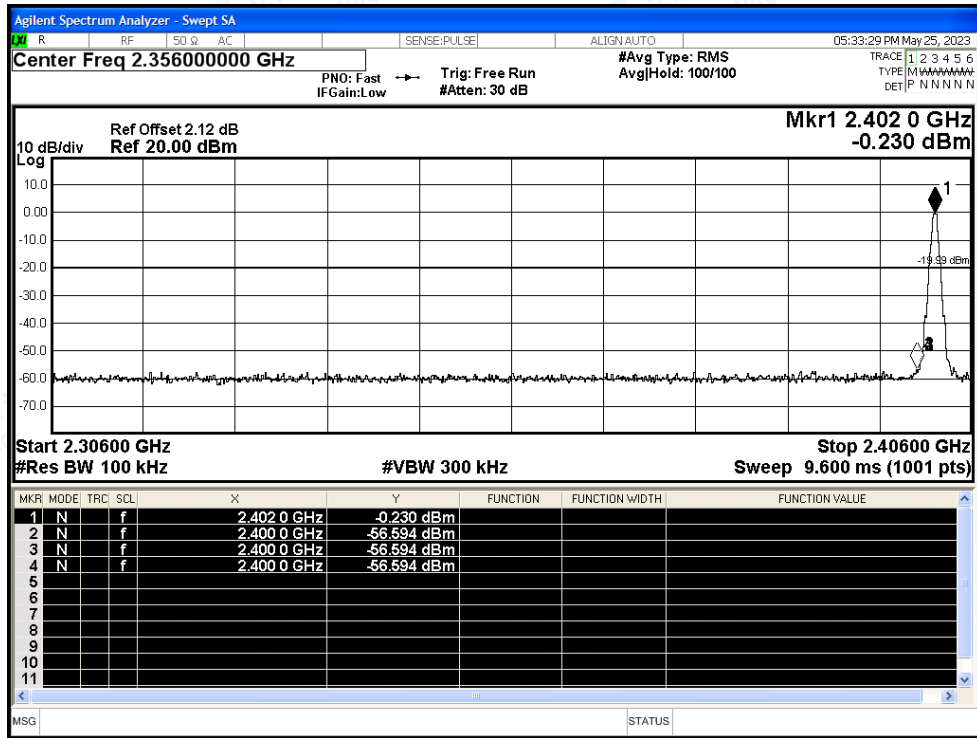


Test Graphs

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

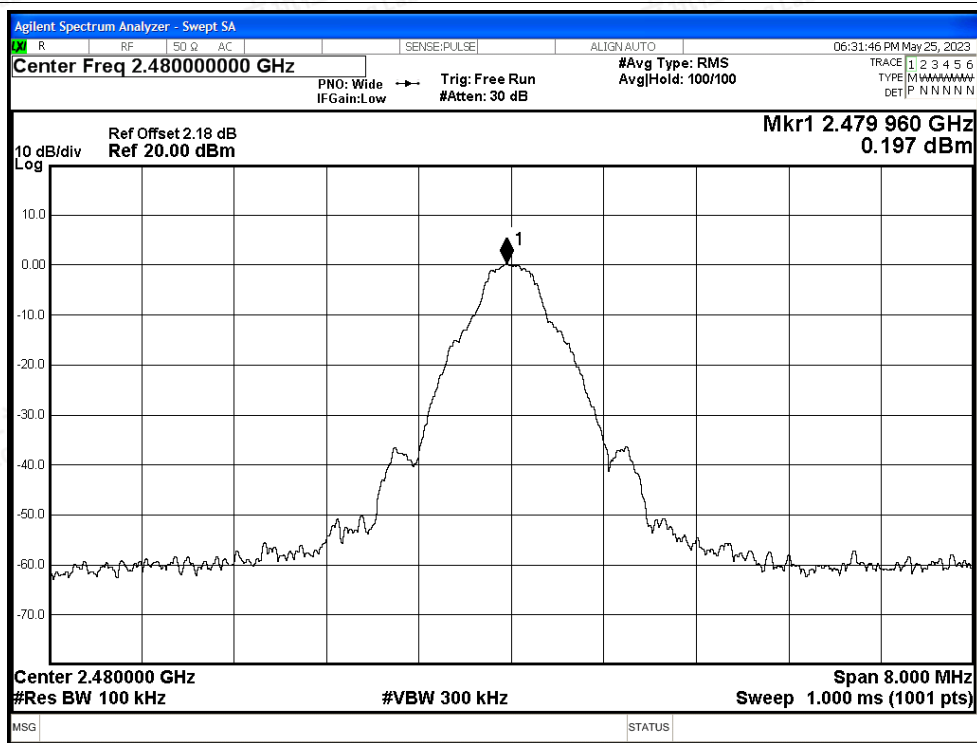


Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

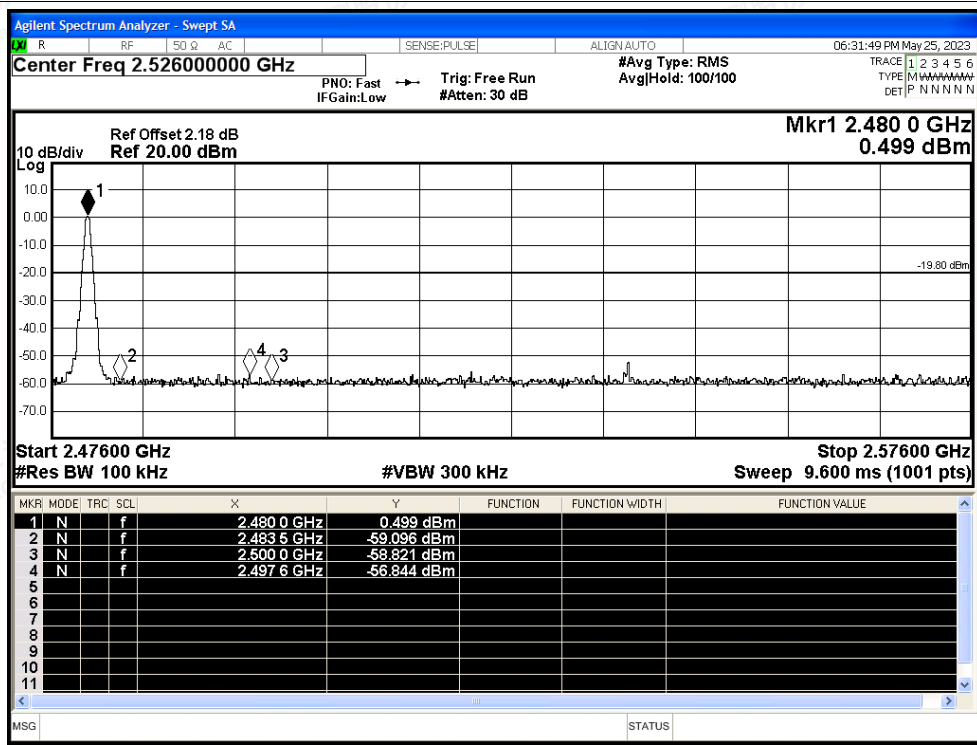




Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Ref

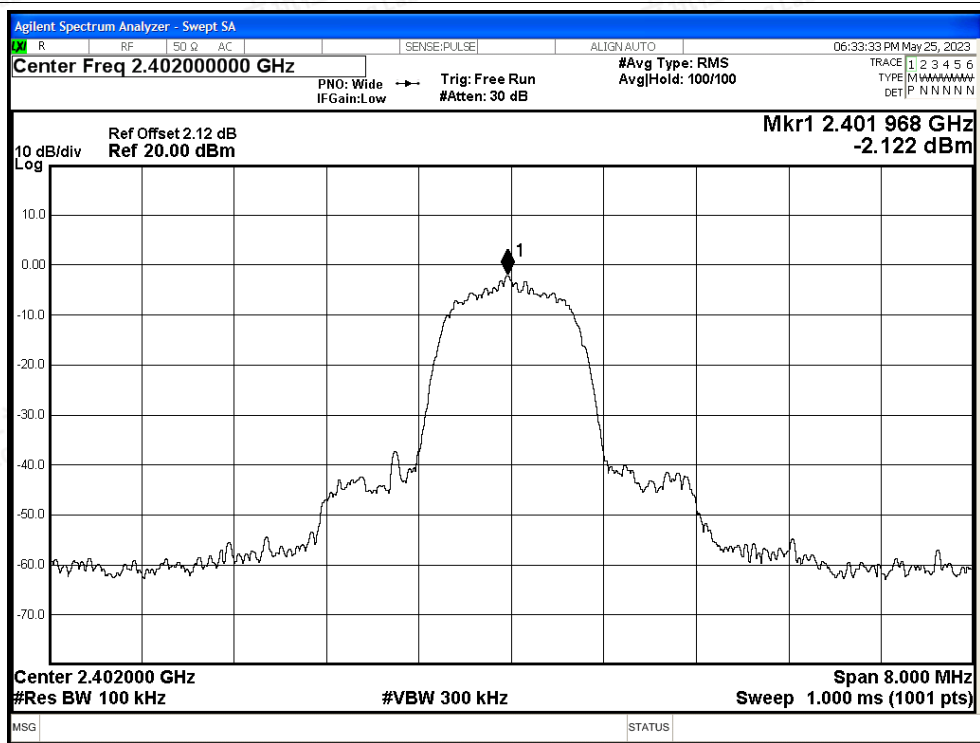


Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Emission

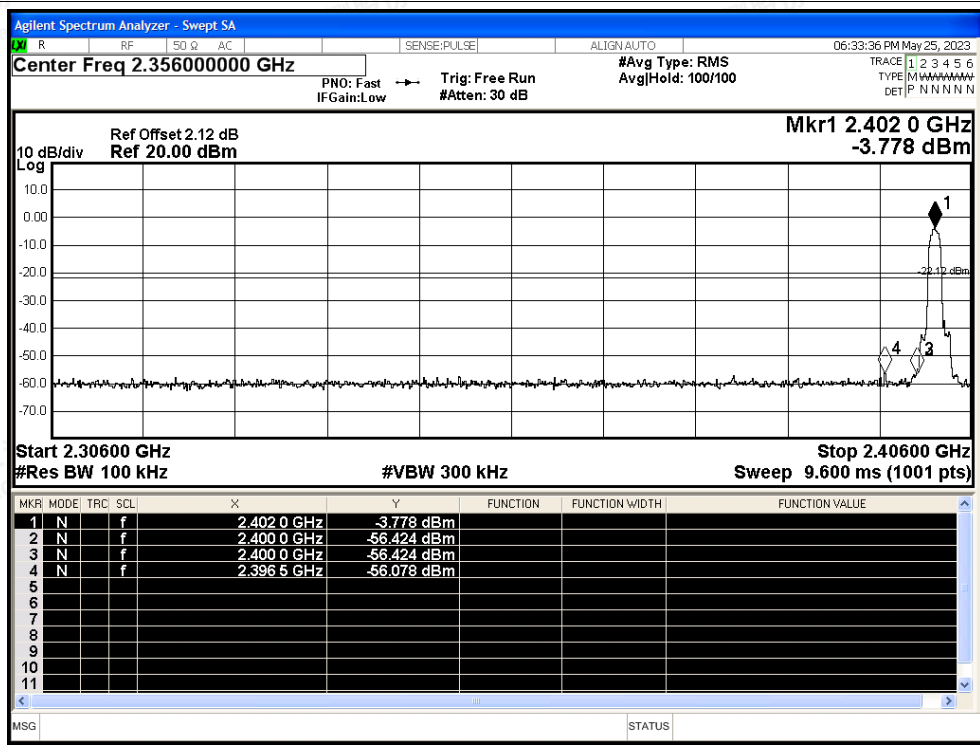




Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Ref

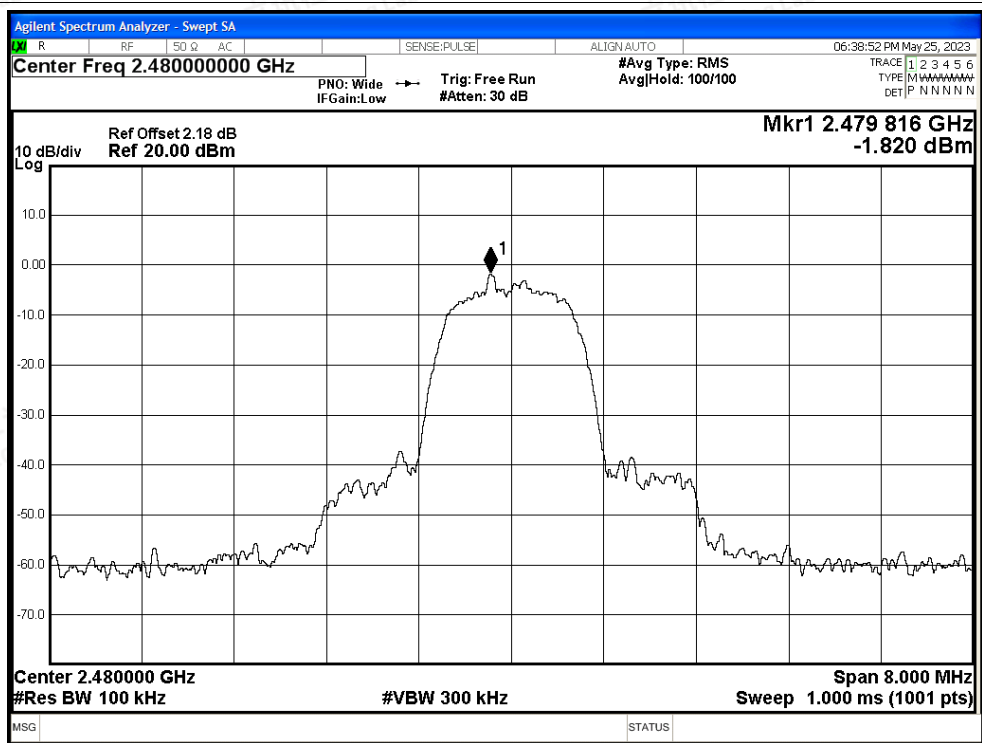


Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Emission

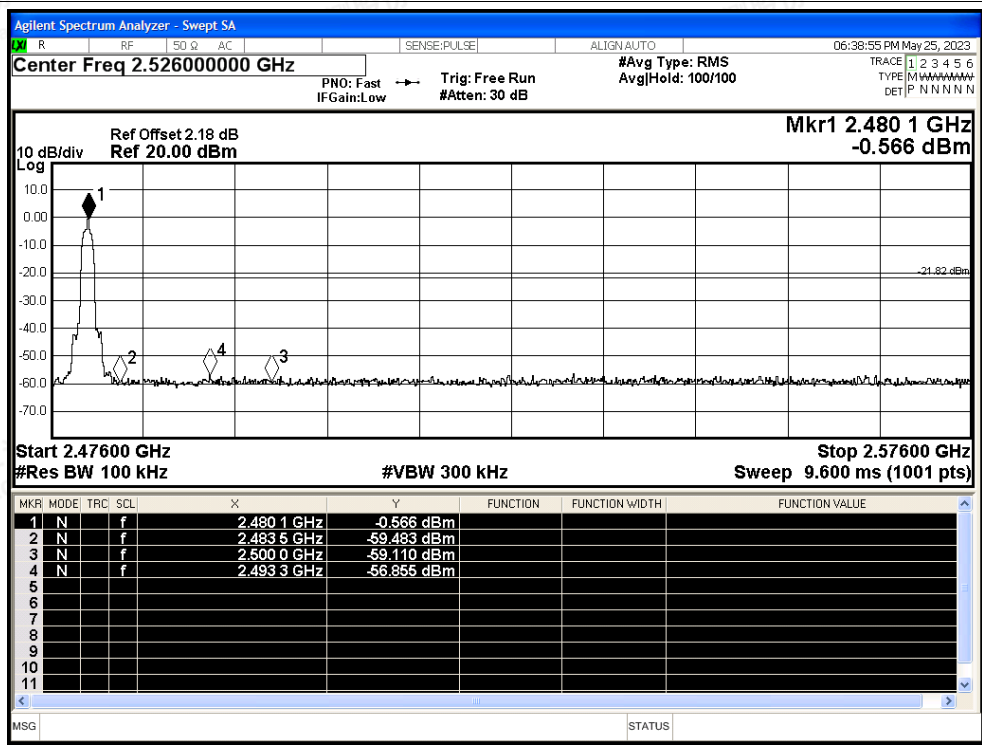




Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Ref

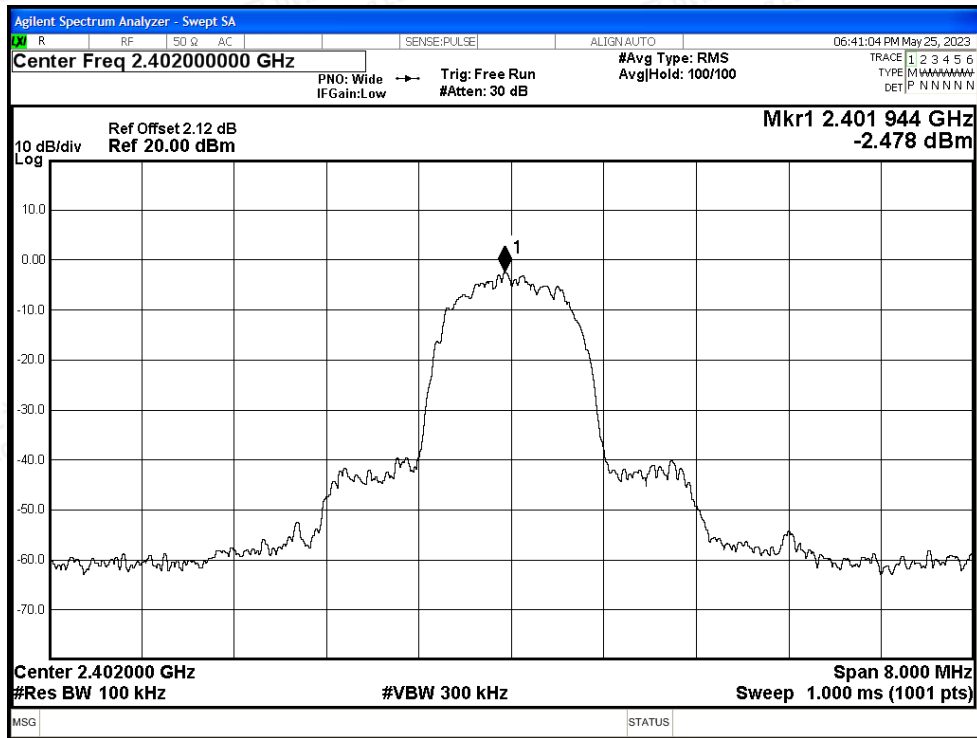


Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Emission

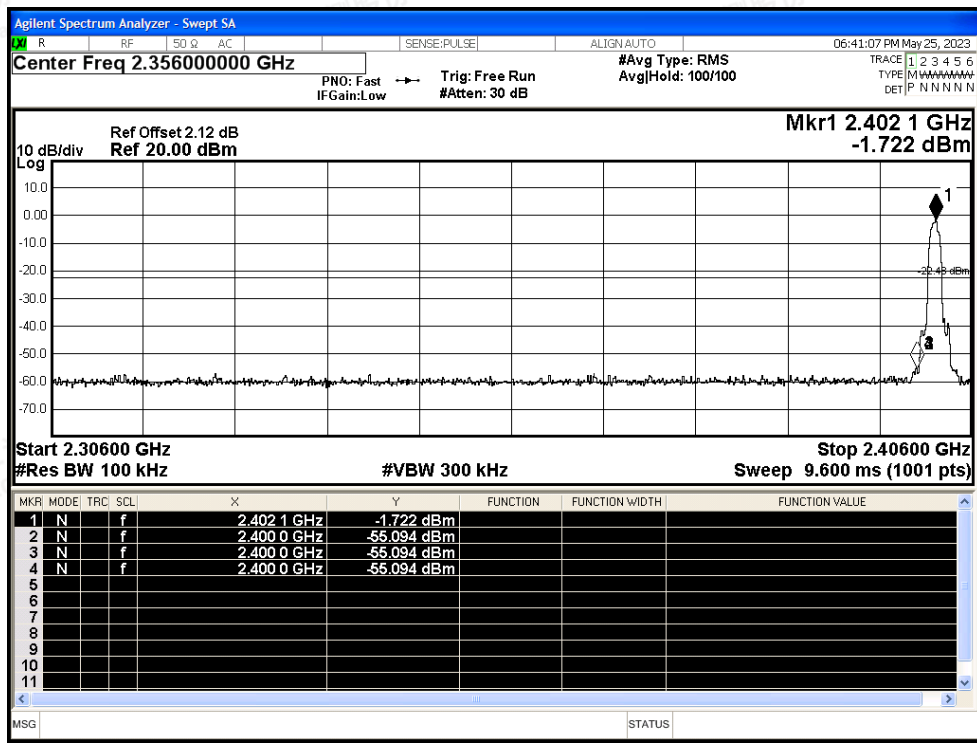




Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Ref

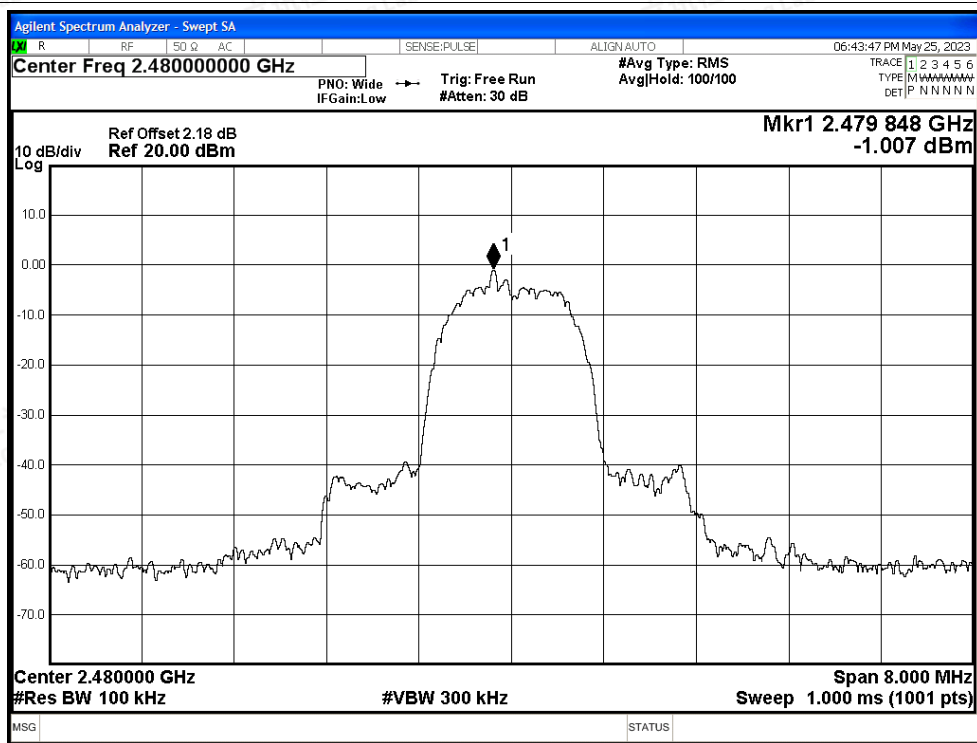


Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Emission

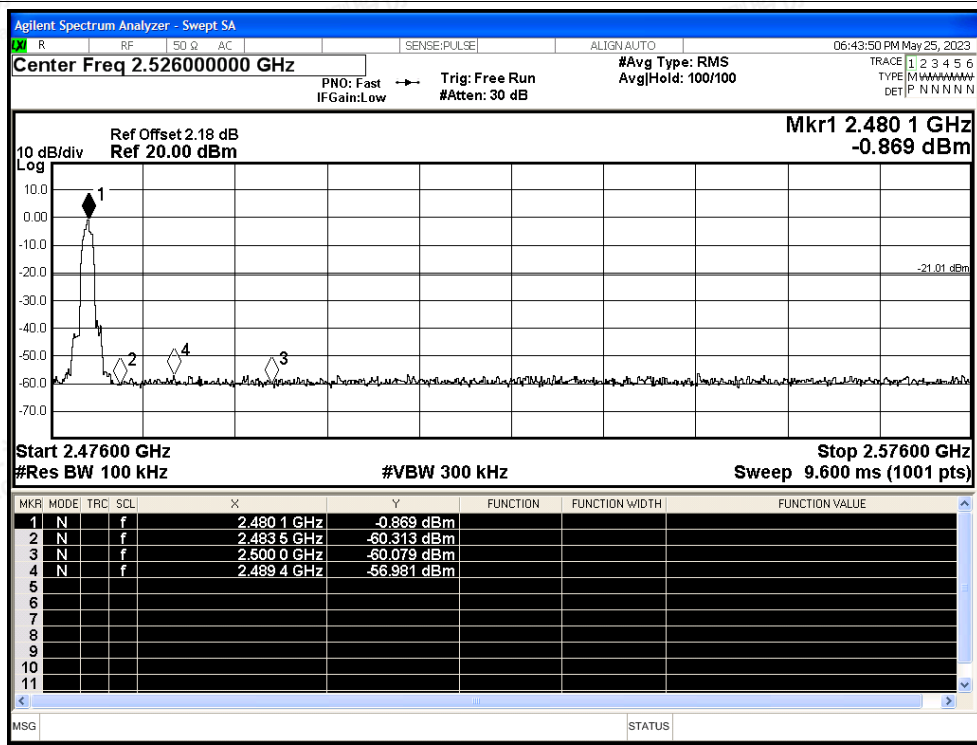




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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





### (Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-56.28	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-56.24	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-54.73	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-55.48	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-54.2	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-55.3	-20	Pass

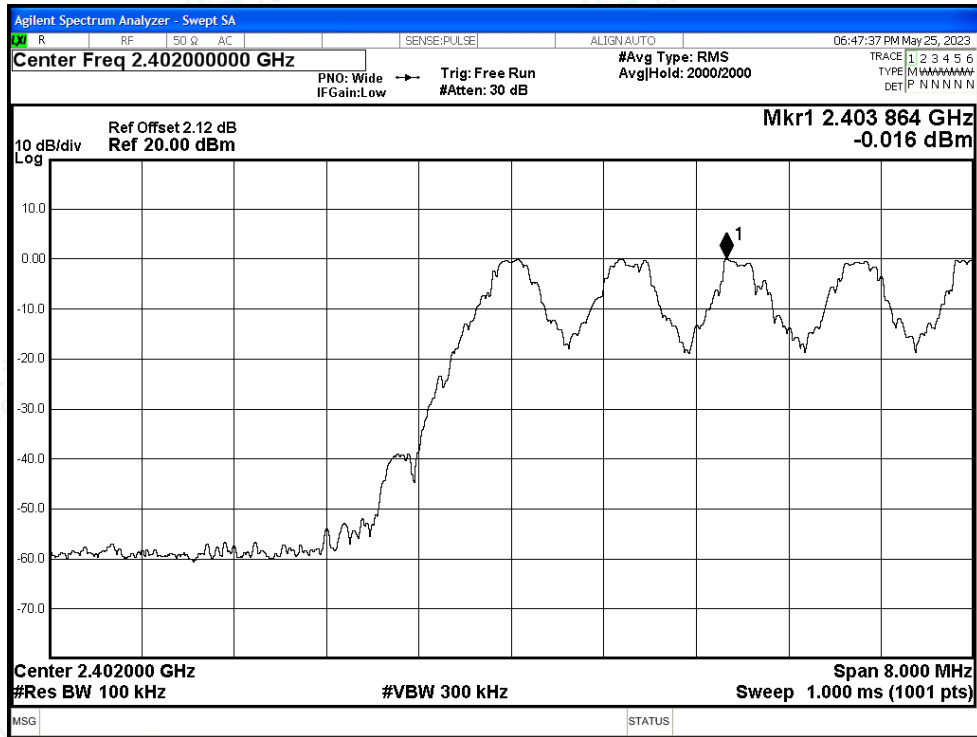


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

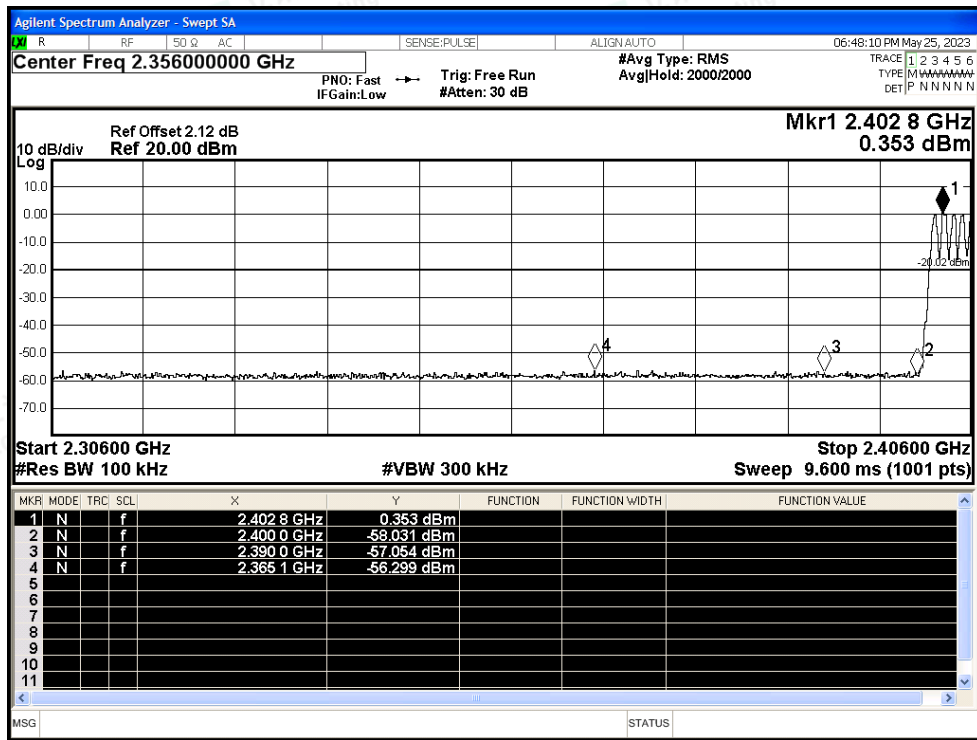


Test Graphs

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



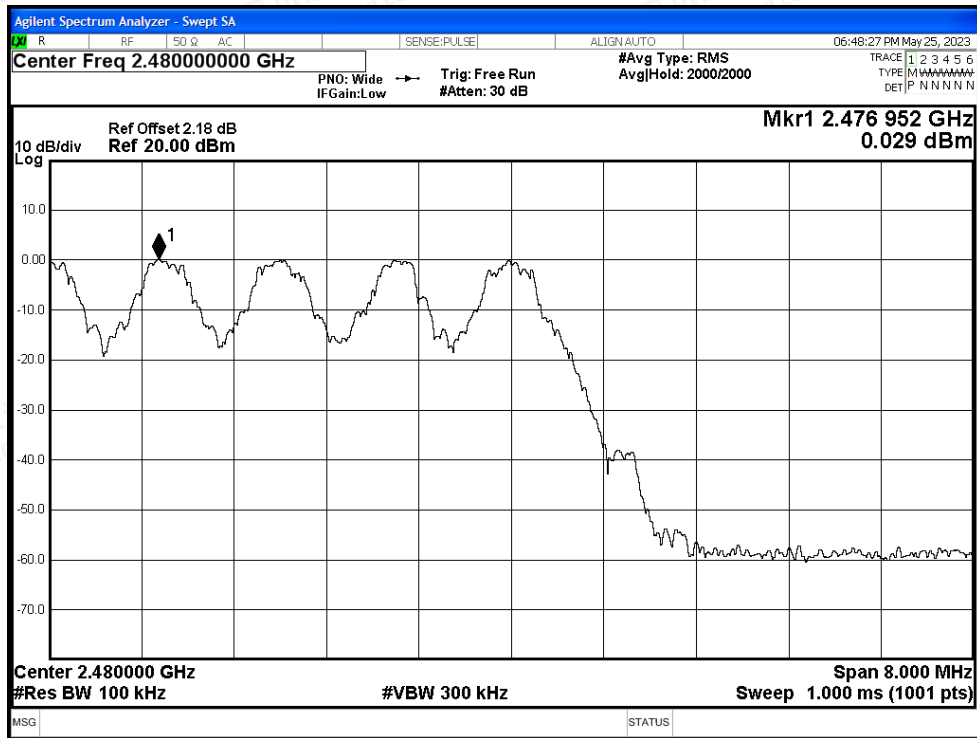
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission



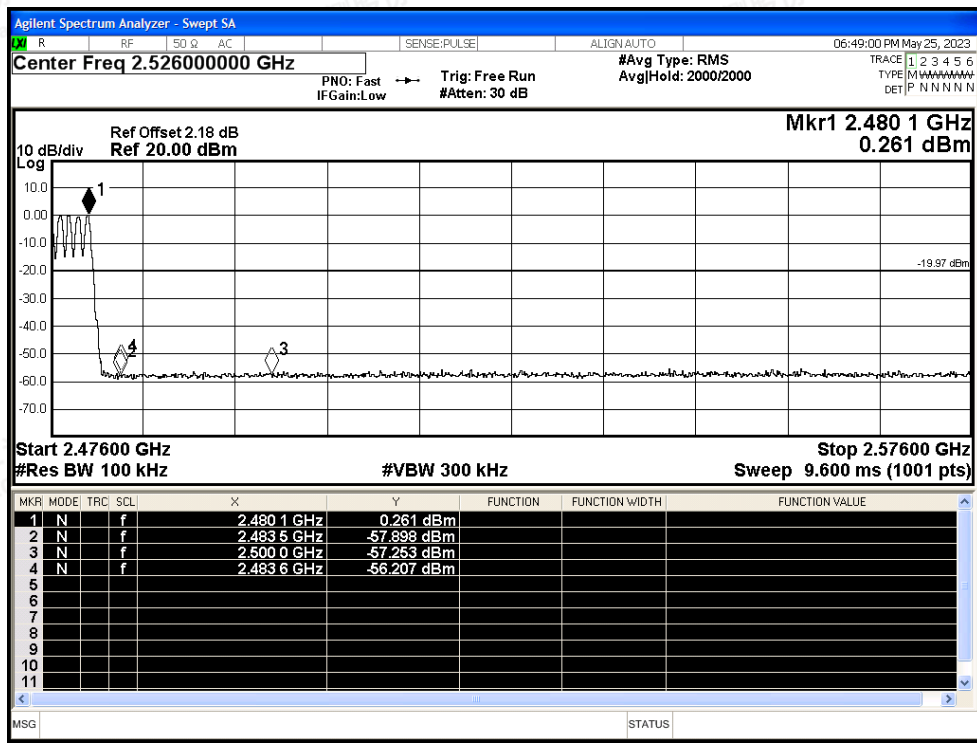




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref



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

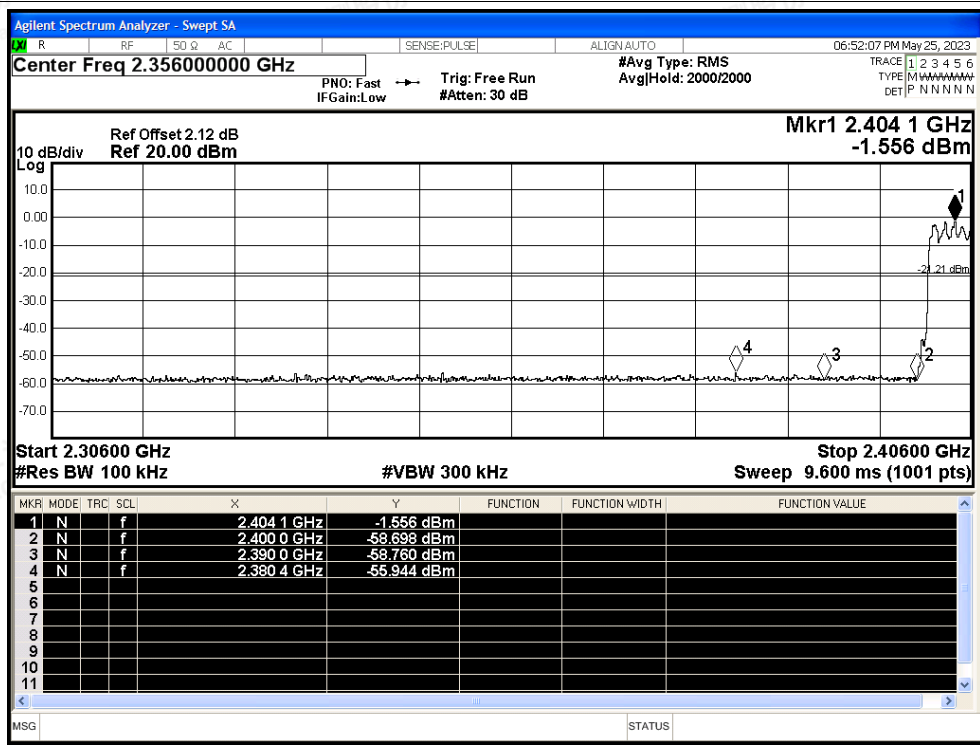




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref

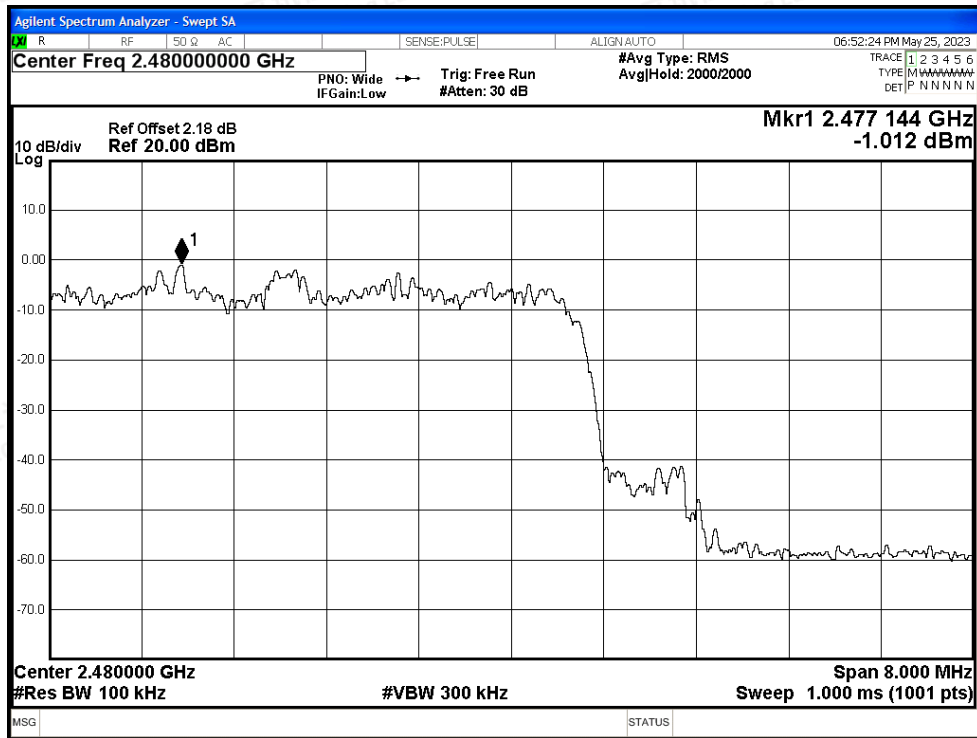


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Emission

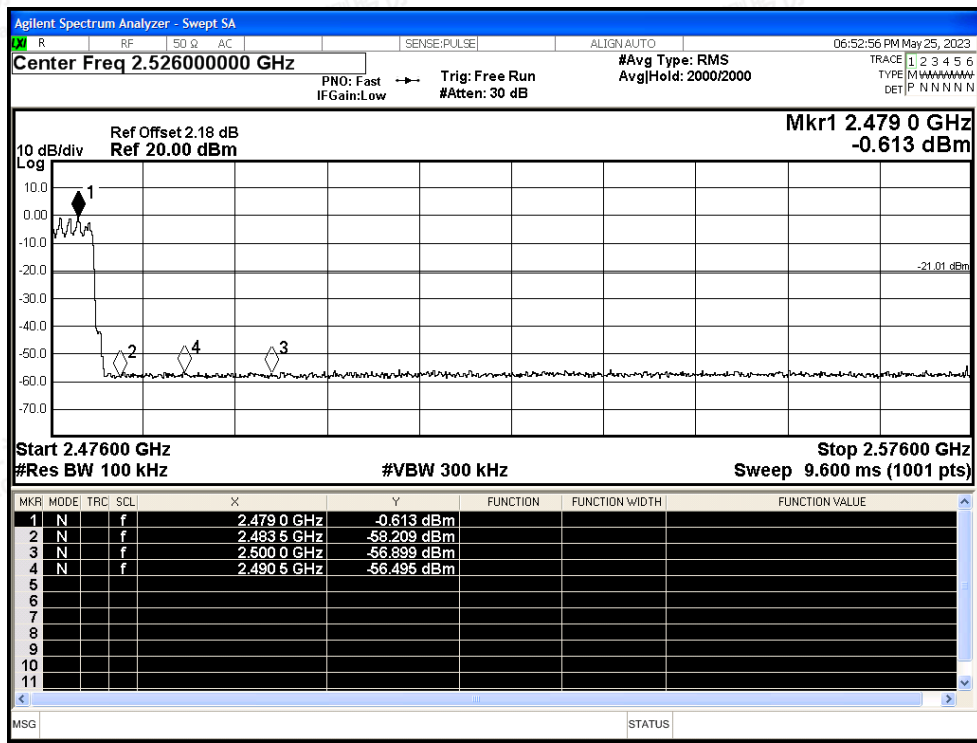




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref

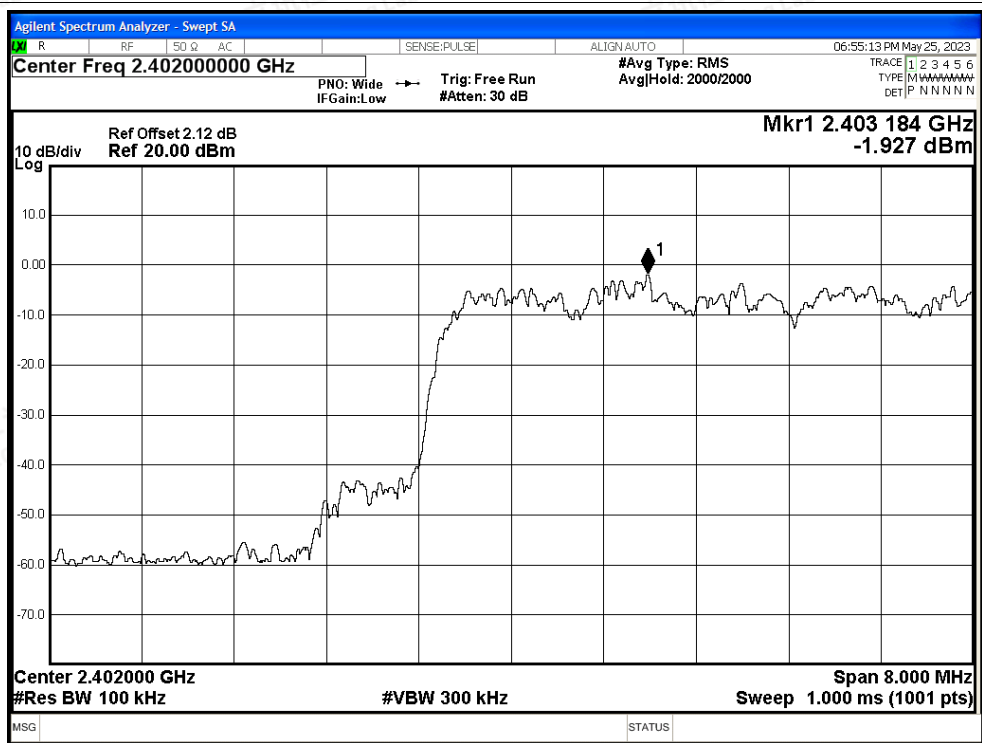


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Emission

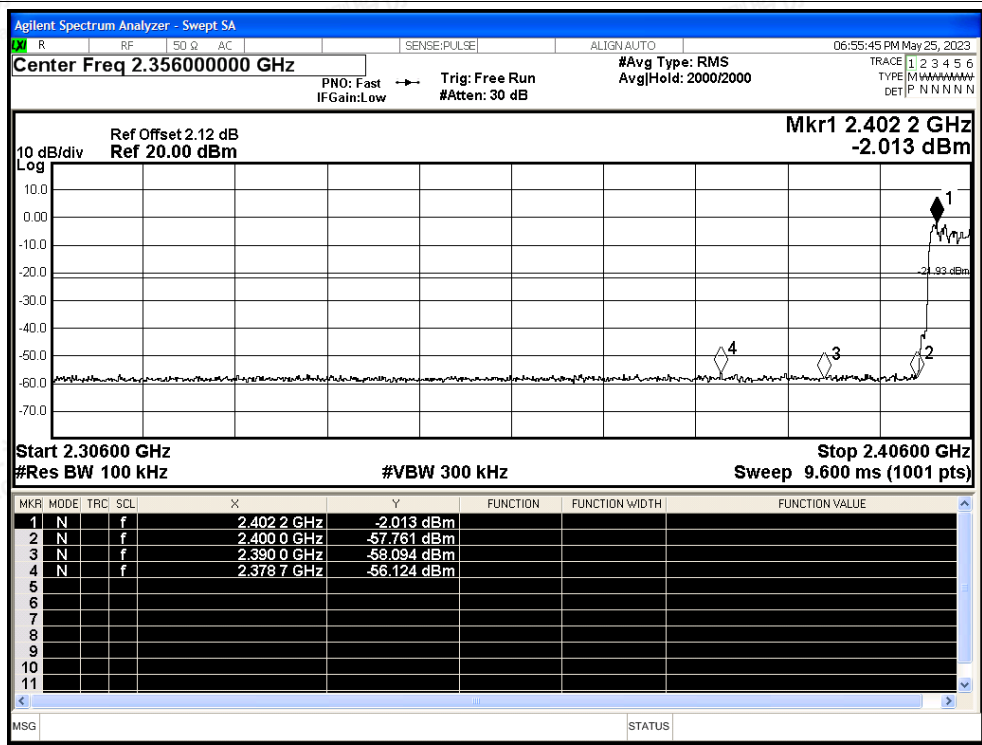




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref

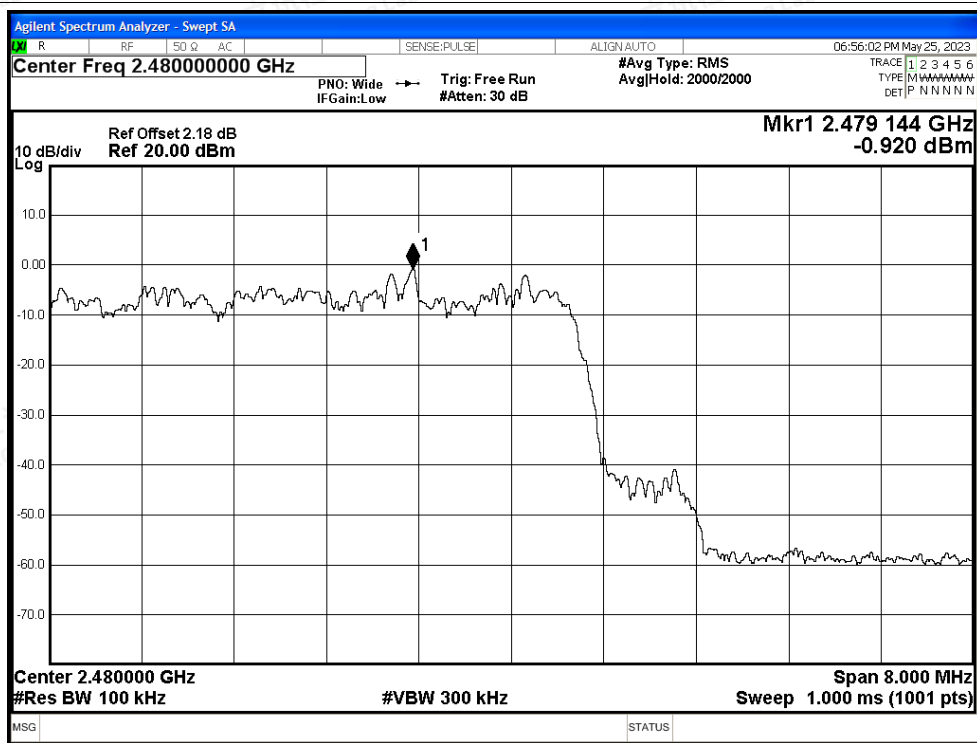


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission

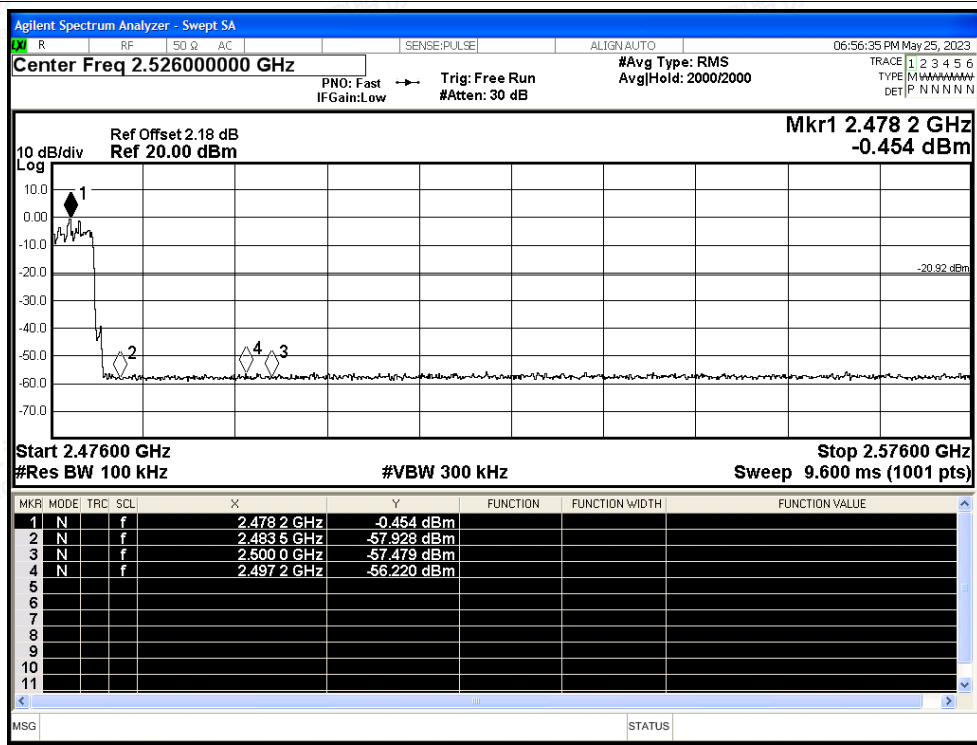




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



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





## A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-55.95	-20	Pass
NVNT	1-DH5	2441	Ant	-55.56	-20	Pass
NVNT	1-DH5	2480	Ant	-55.79	-20	Pass
NVNT	2-DH5	2402	Ant	-54.94	-20	Pass
NVNT	2-DH5	2441	Ant	-53.32	-20	Pass
NVNT	2-DH5	2480	Ant	-54.27	-20	Pass
NVNT	3-DH5	2402	Ant	-54.58	-20	Pass
NVNT	3-DH5	2441	Ant	-55	-20	Pass
NVNT	3-DH5	2480	Ant	-51.97	-20	Pass

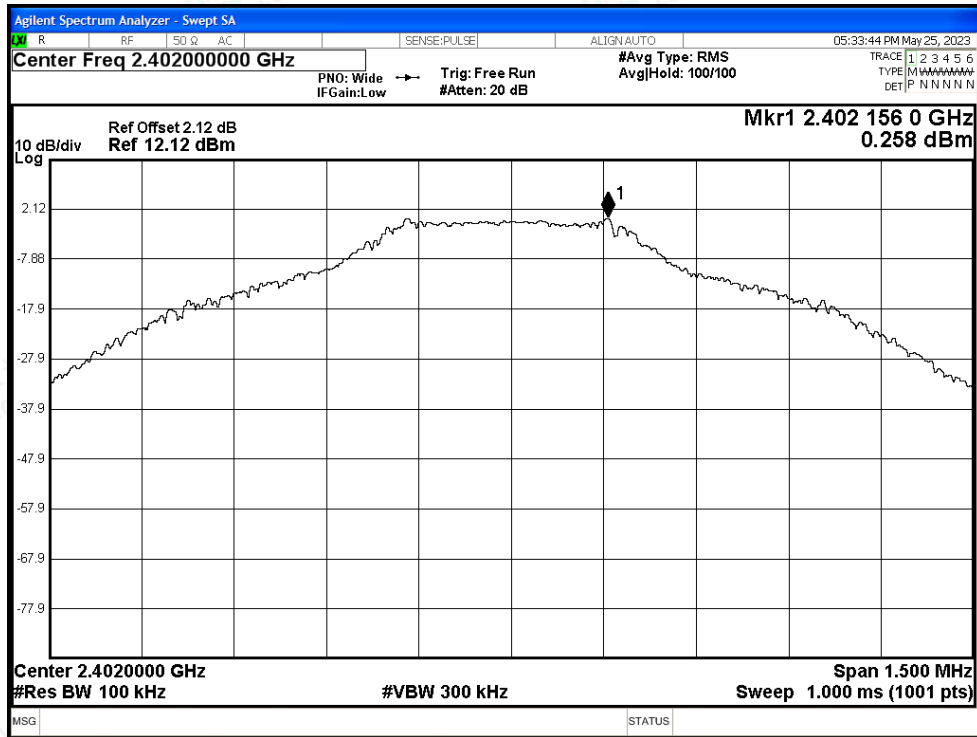


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

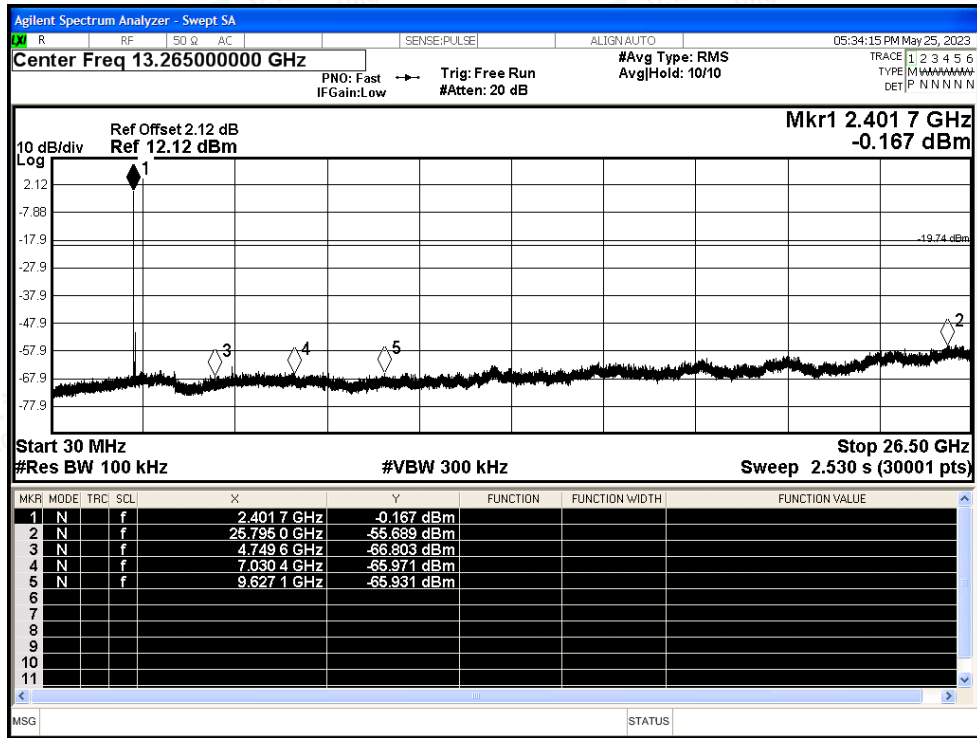


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref

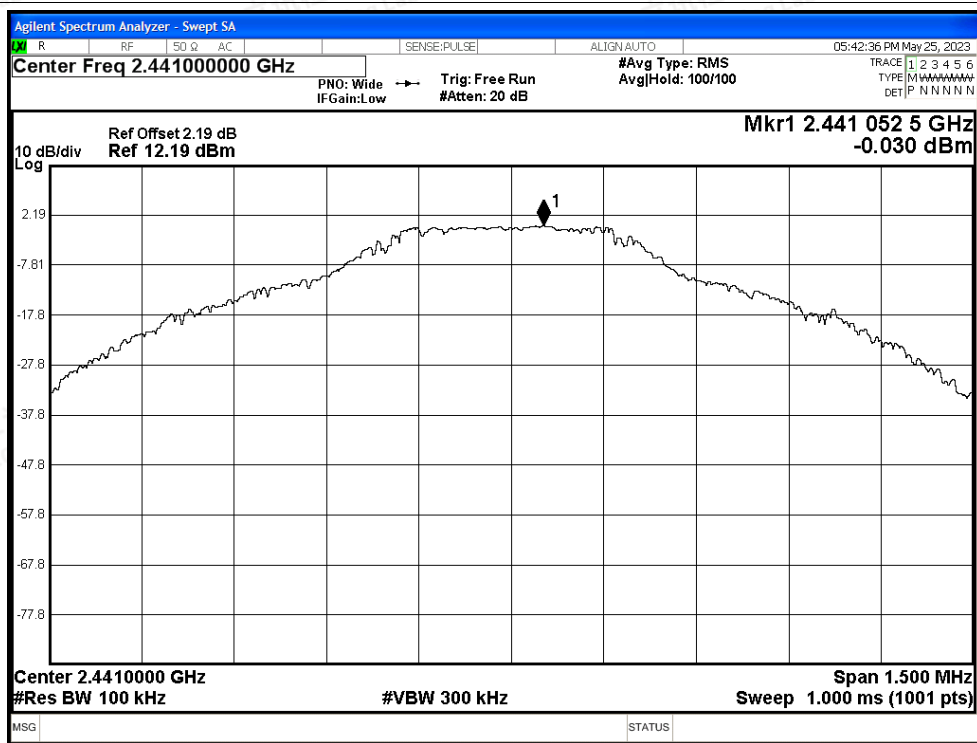


Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

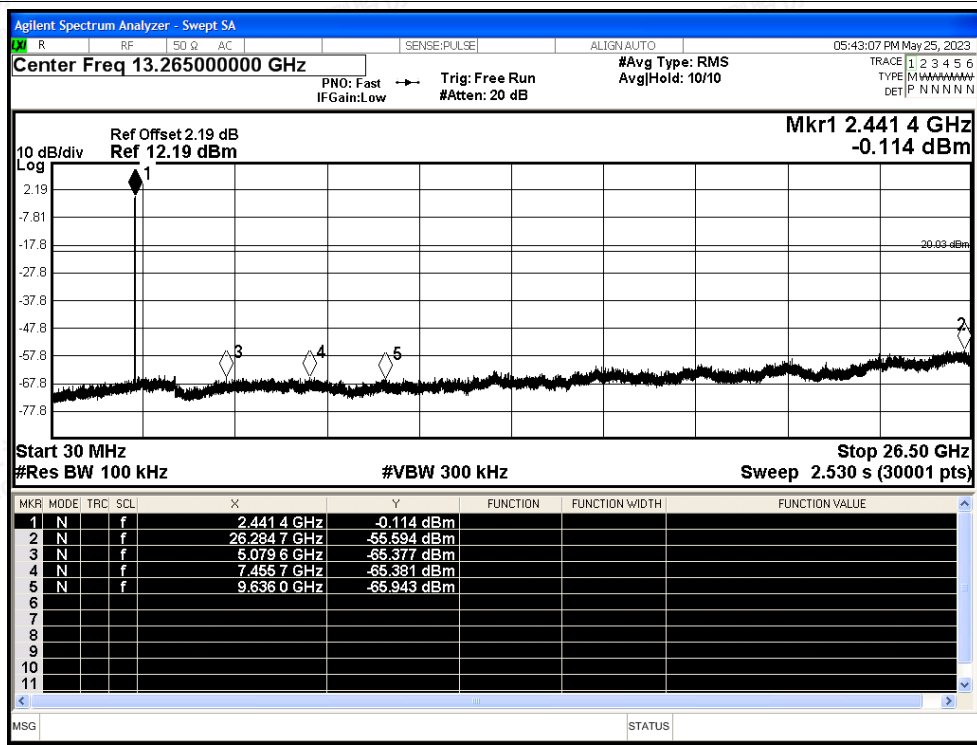




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref



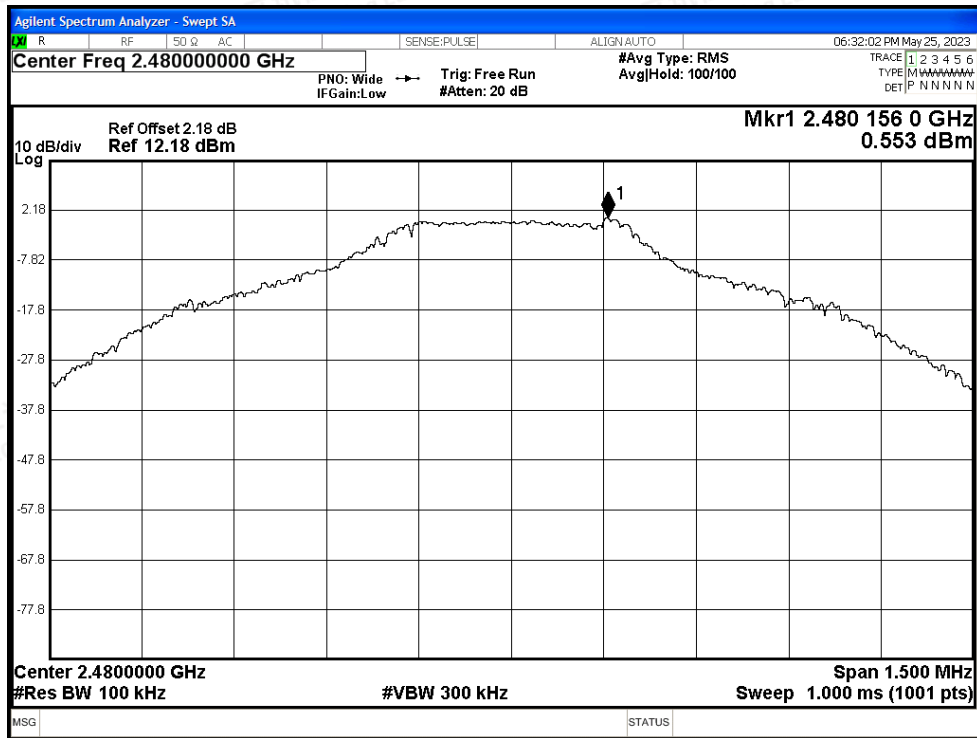
Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission



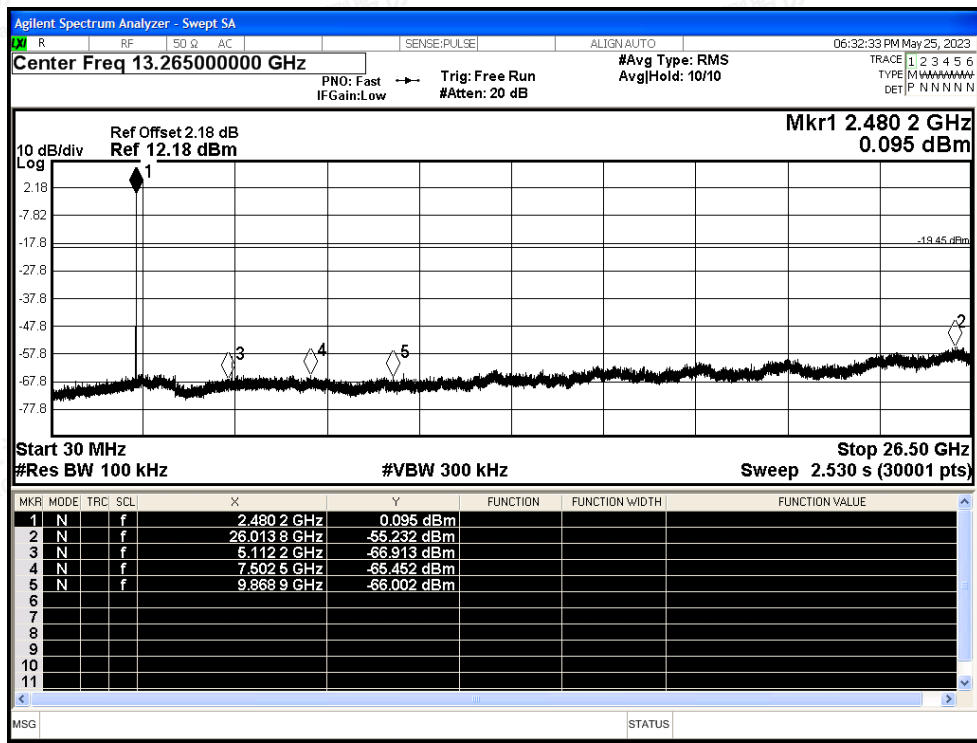




Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref

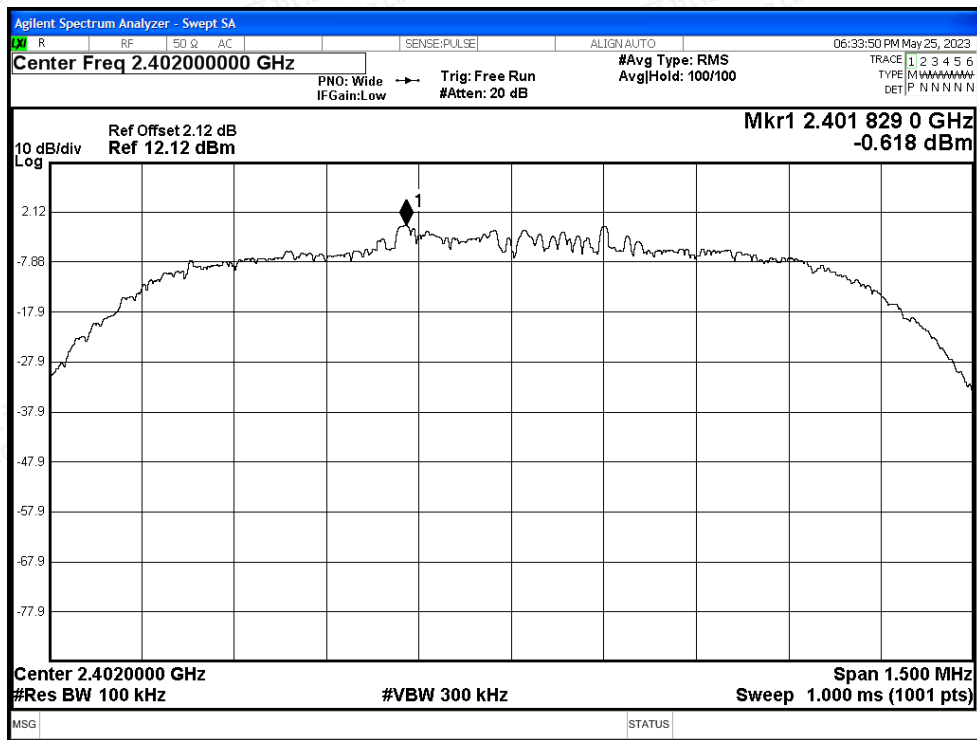


Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission

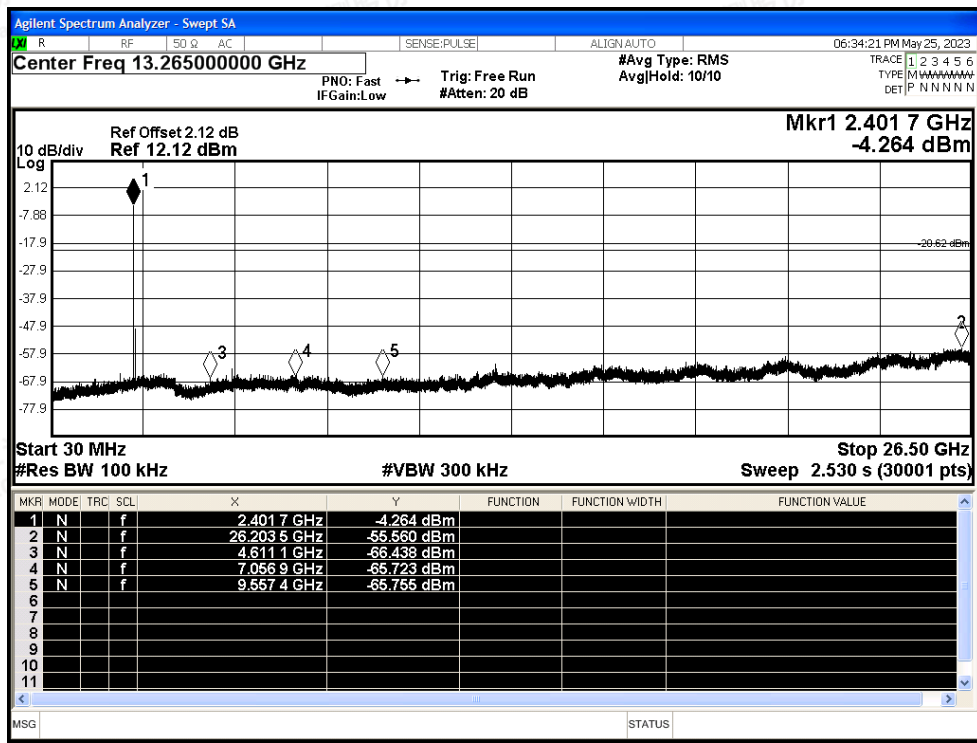




Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref

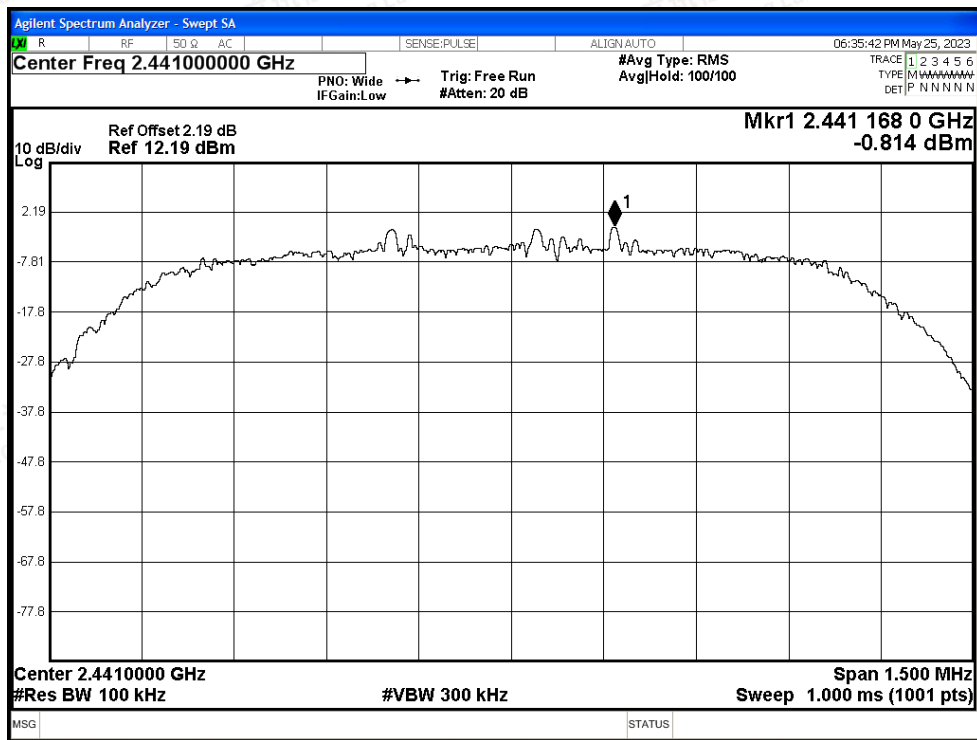


Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission

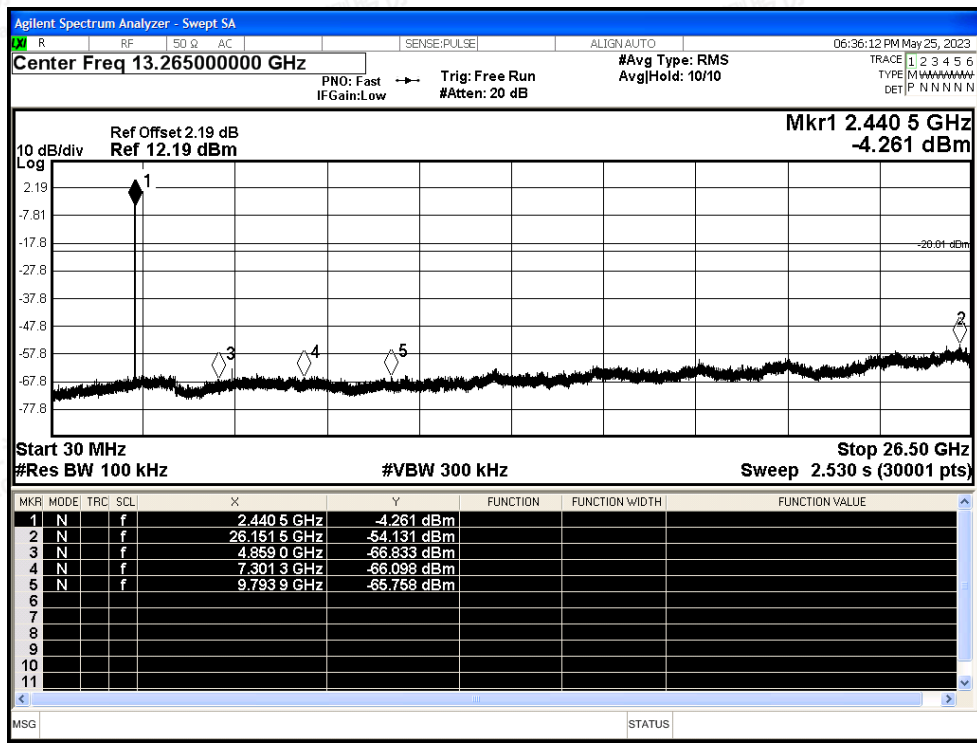




Tx. Spurious NVNT 2-DH5 2441MHz Ant Ref

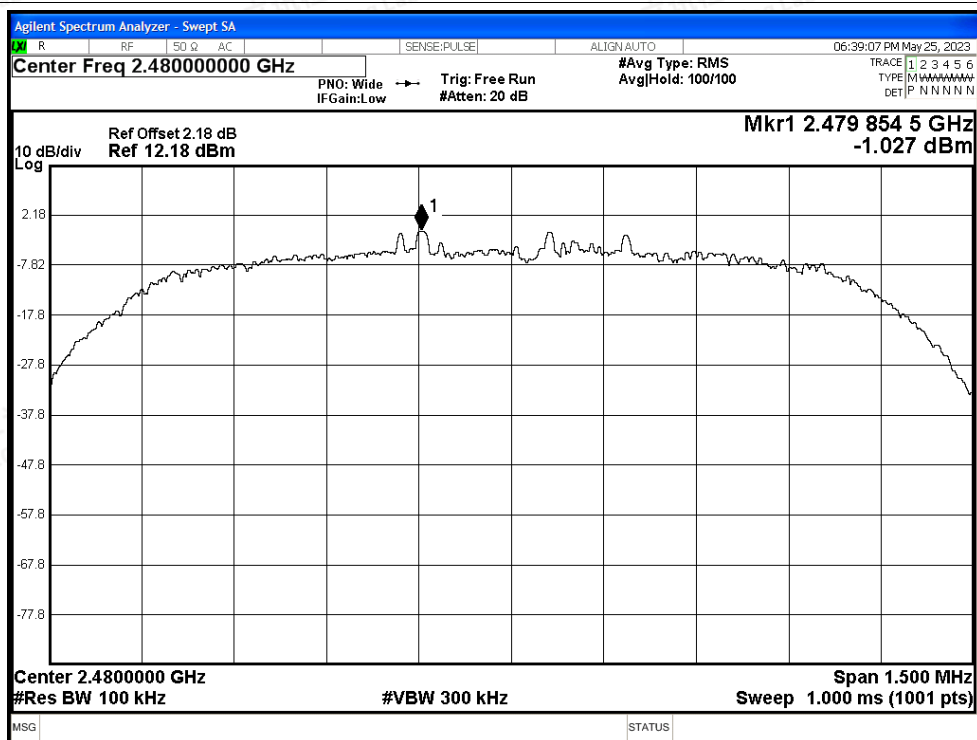


Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission

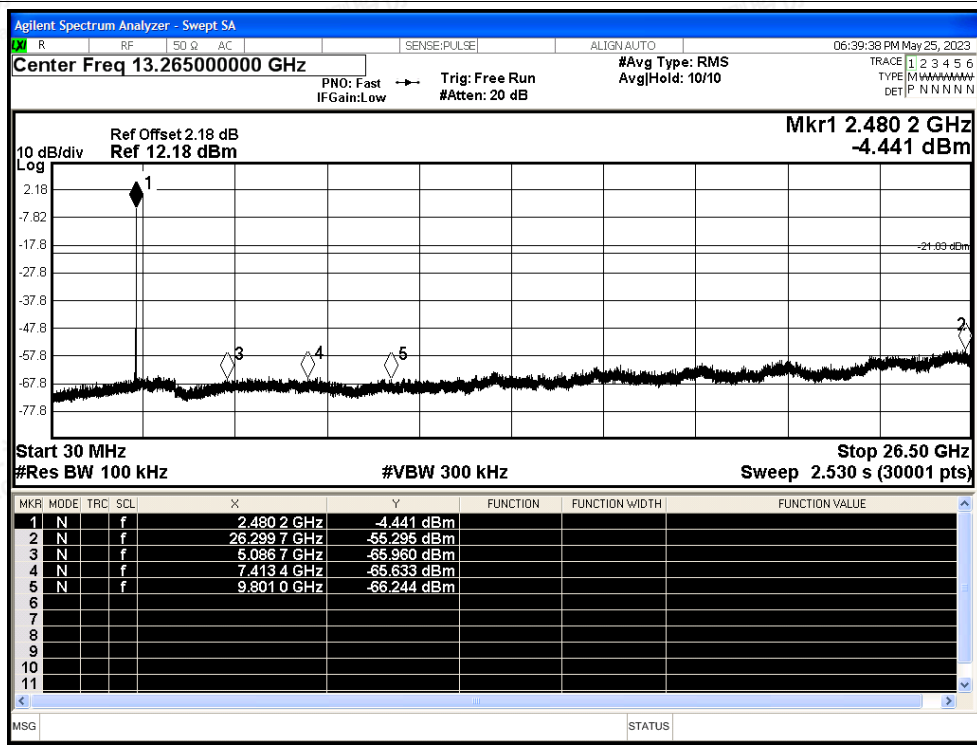




Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref

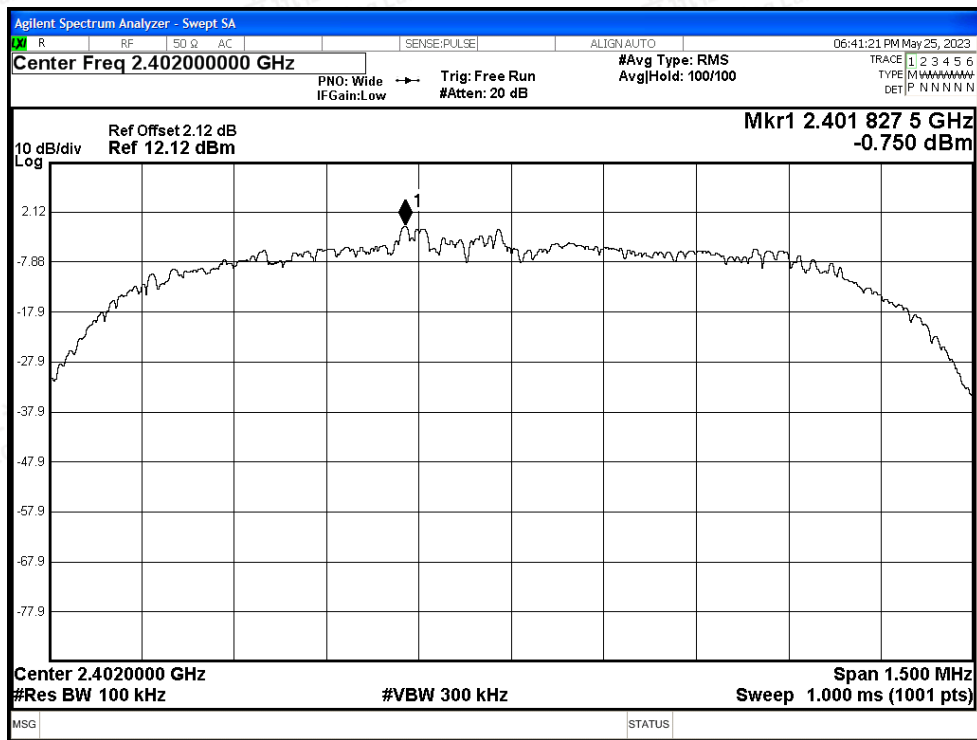


Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission

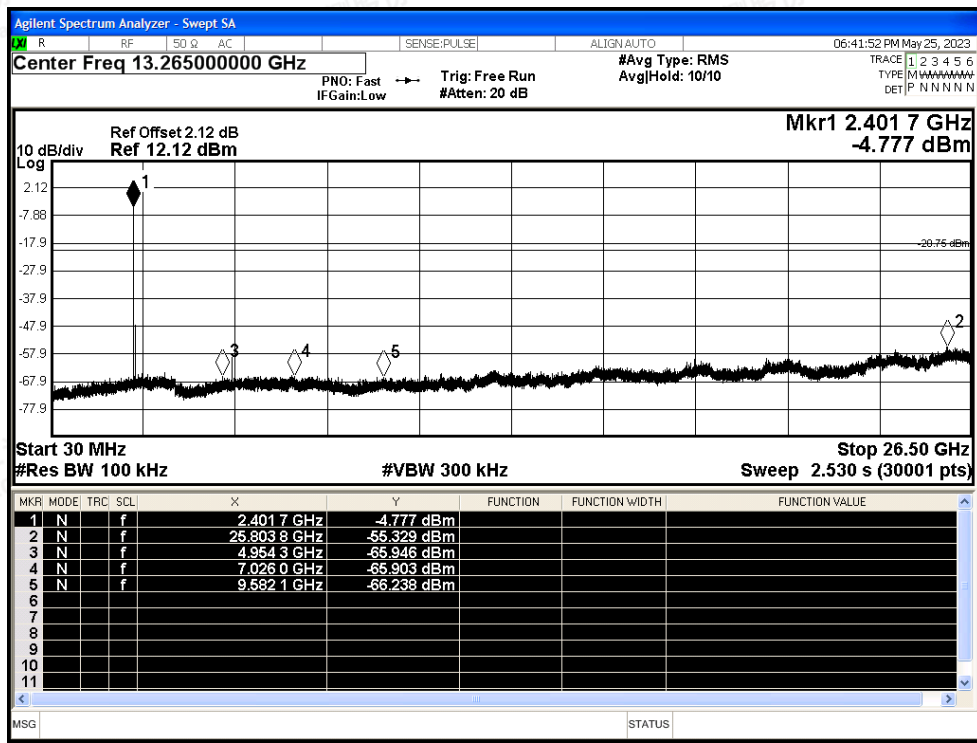




Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref

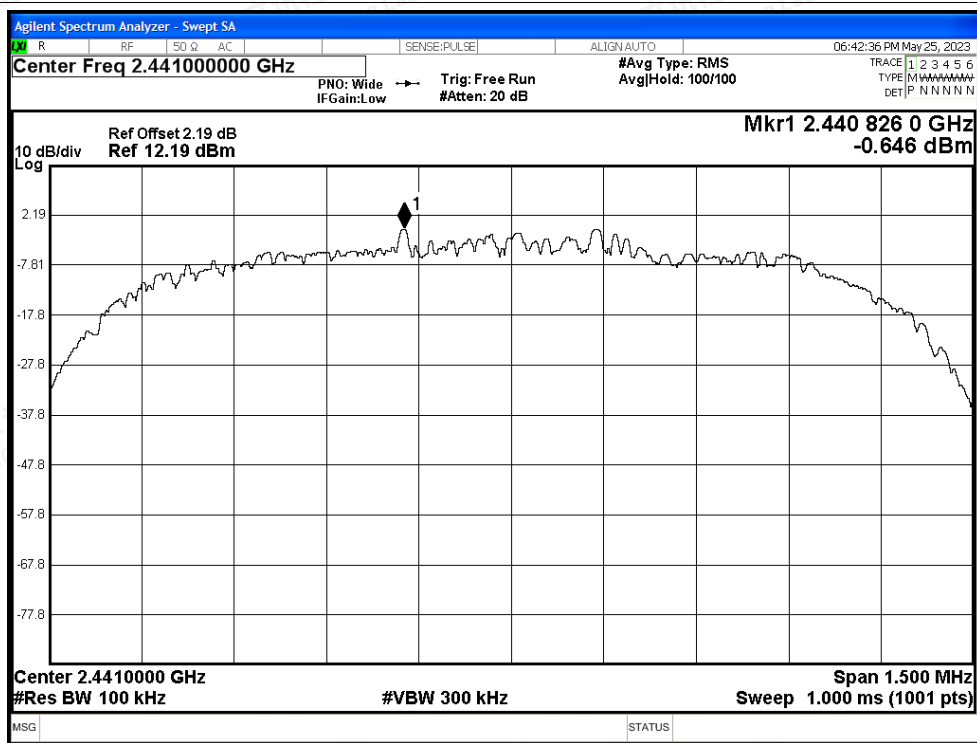


Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission

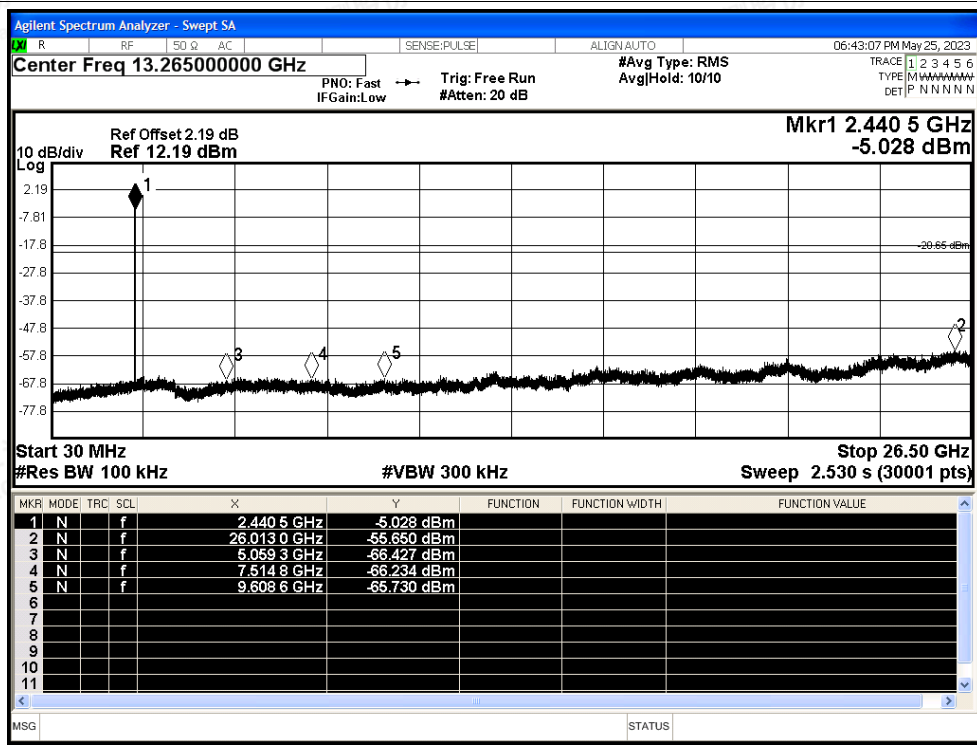




Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref

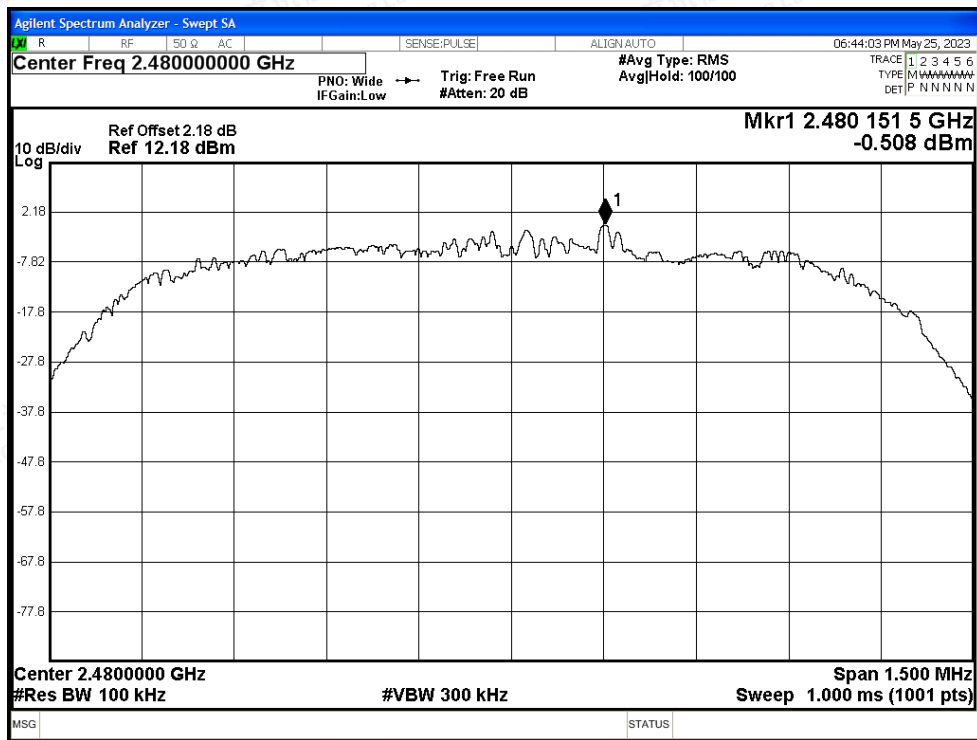


Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission

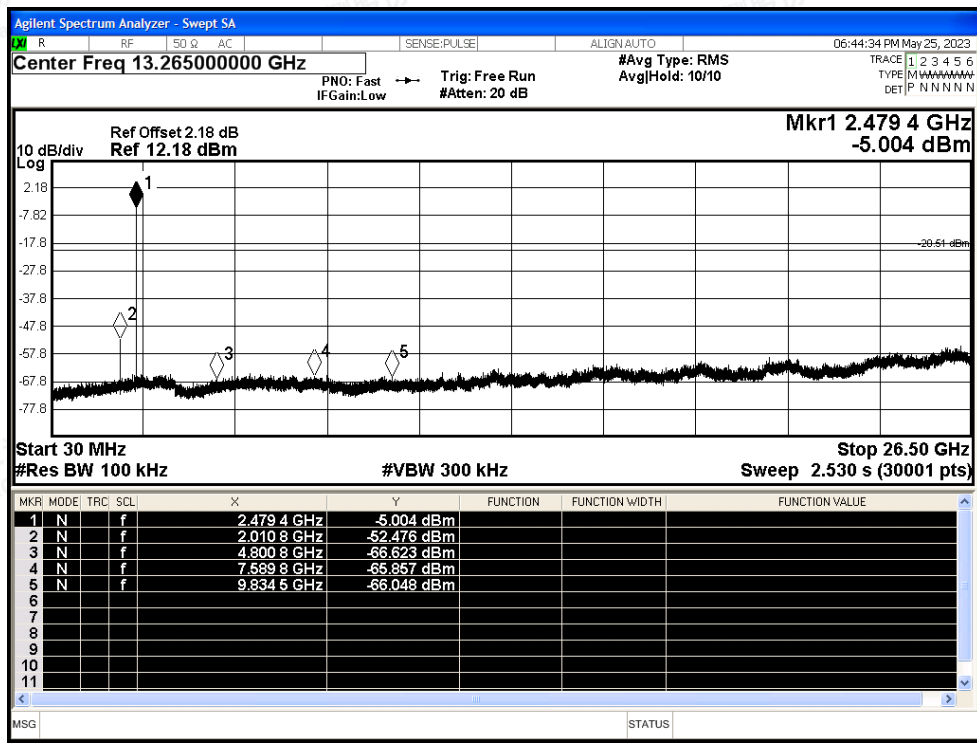




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant 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	Ant	No-Hopping	2310	-49.5	2	47.76	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-57.97	2	39.29	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2327.76	-47.89	2	49.37	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2387.184	-57.43	2	39.83	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-51.67	2	45.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-57.49	2	39.77	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-50.16	2	47.1	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-55.48	2	41.78	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2490.64	-47.16	2	50.1	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.512	-55.48	2	41.78	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.25	2	47.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-57.27	2	39.99	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-51.92	2	45.34	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-57.91	2	39.35	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2376.432	-47.25	2	50.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2389.68	-57.39	2	39.87	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.63	2	46.63	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-57.59	2	39.67	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-50.35	2	46.91	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-55.32	2	41.94	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2493.184	-46.4	2	50.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-55.32	2	41.94	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.5	2	46.76	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.26	2	40	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-50.71	2	46.55	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-57.98	2	39.28	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2371.728	-46.96	2	50.3	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2389.104	-57.45	2	39.81	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-50.65	2	46.61	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-57.56	2	39.7	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-49.93	2	47.33	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-55.64	2	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2487.376	-47.07	2	50.19	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.512	-55.64	2	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-50.3	2	46.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.34	2	39.92	Average	54	Pass

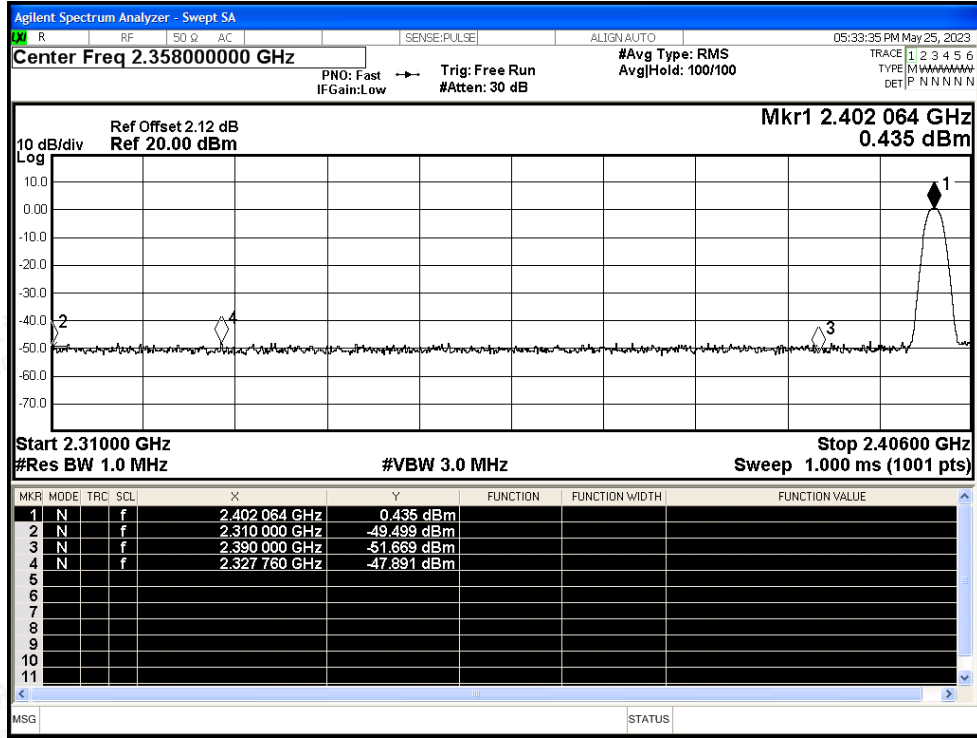




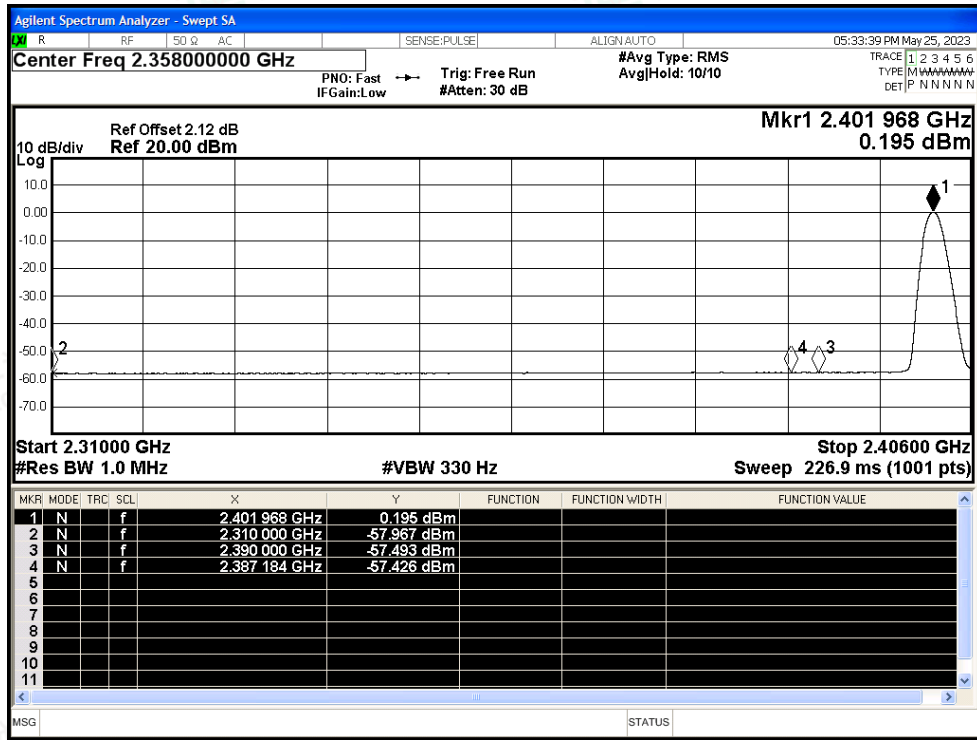


Test Graphs

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

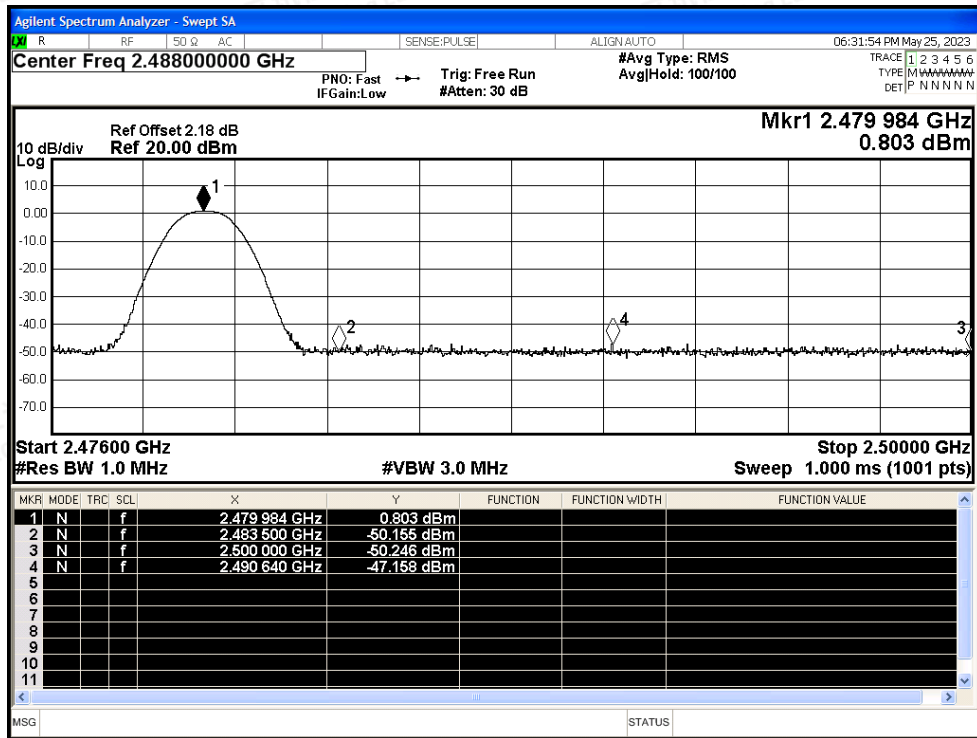


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

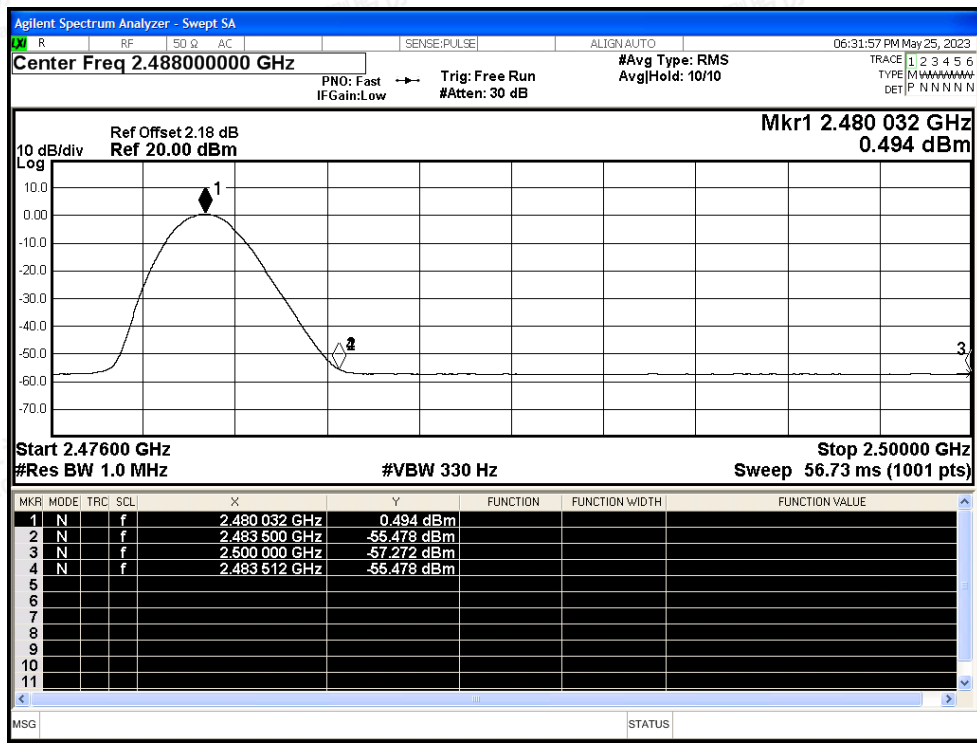




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak

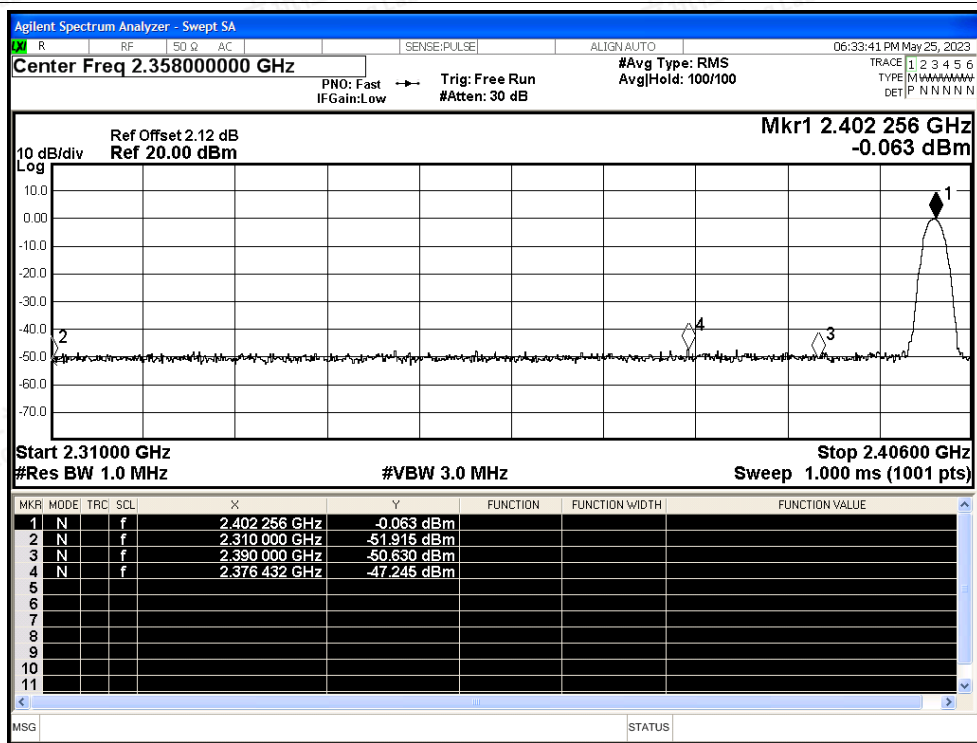


Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Average

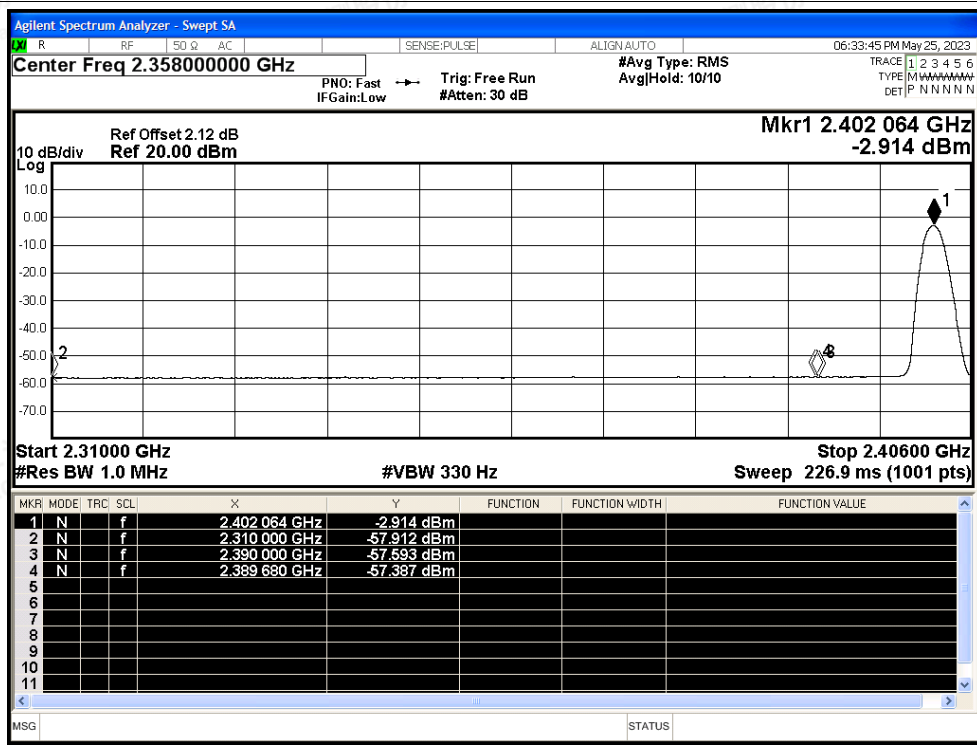




Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

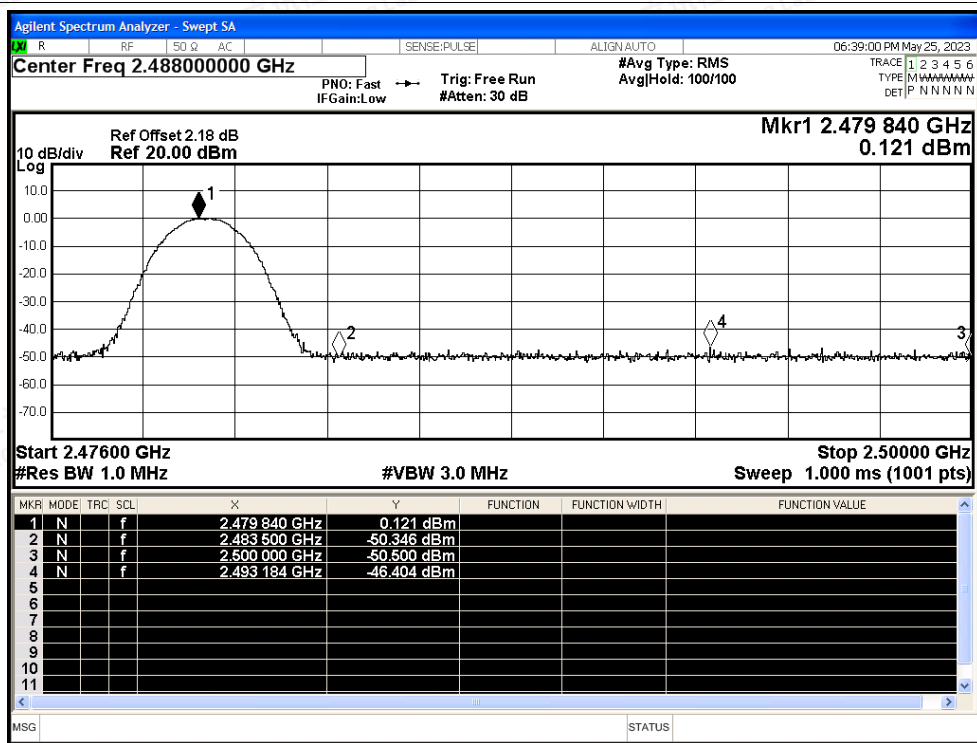


Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Average

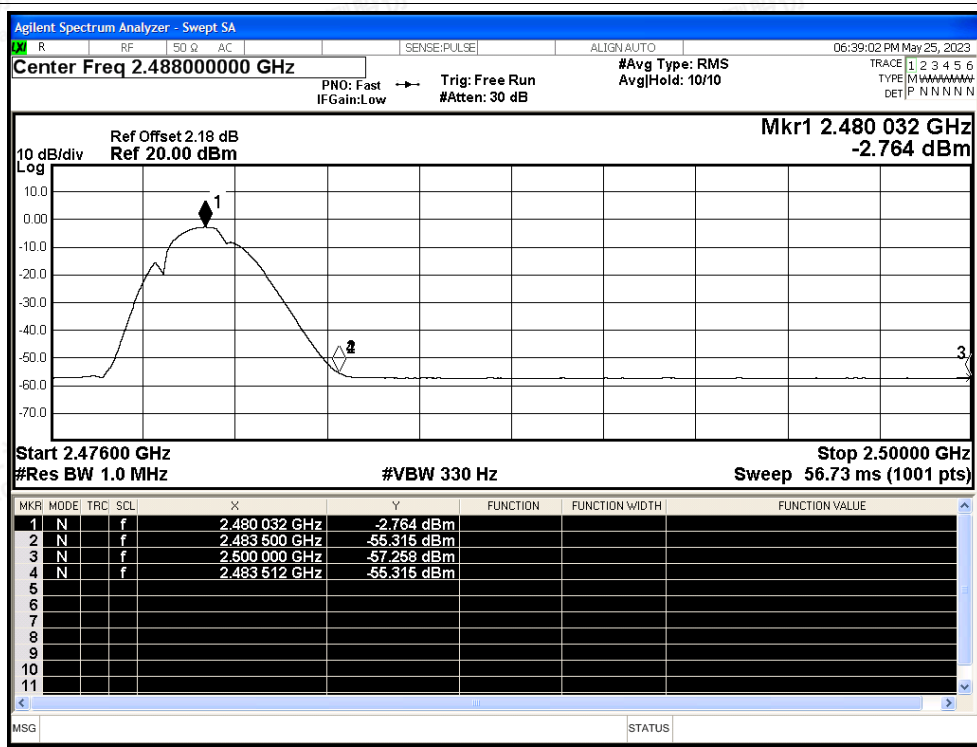




Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak

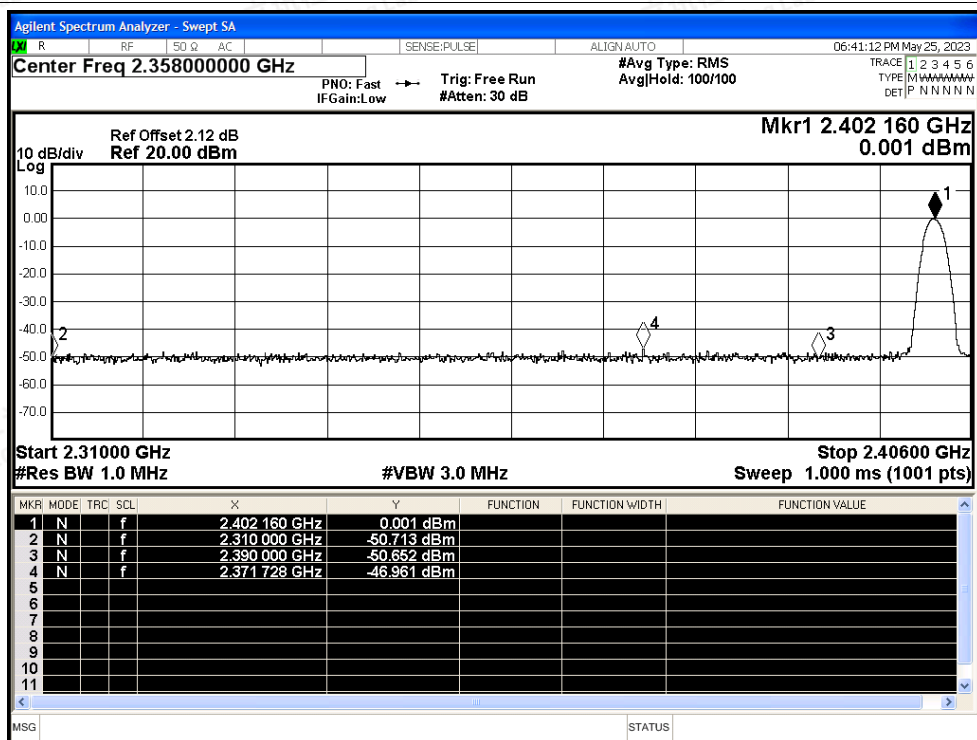


Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Average

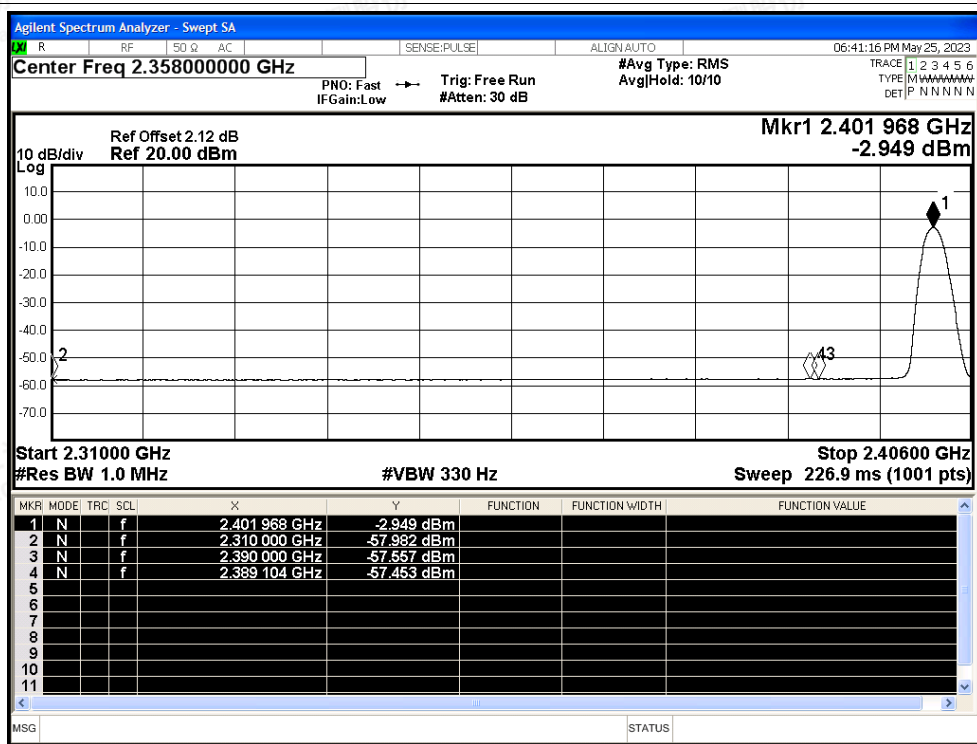




Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak

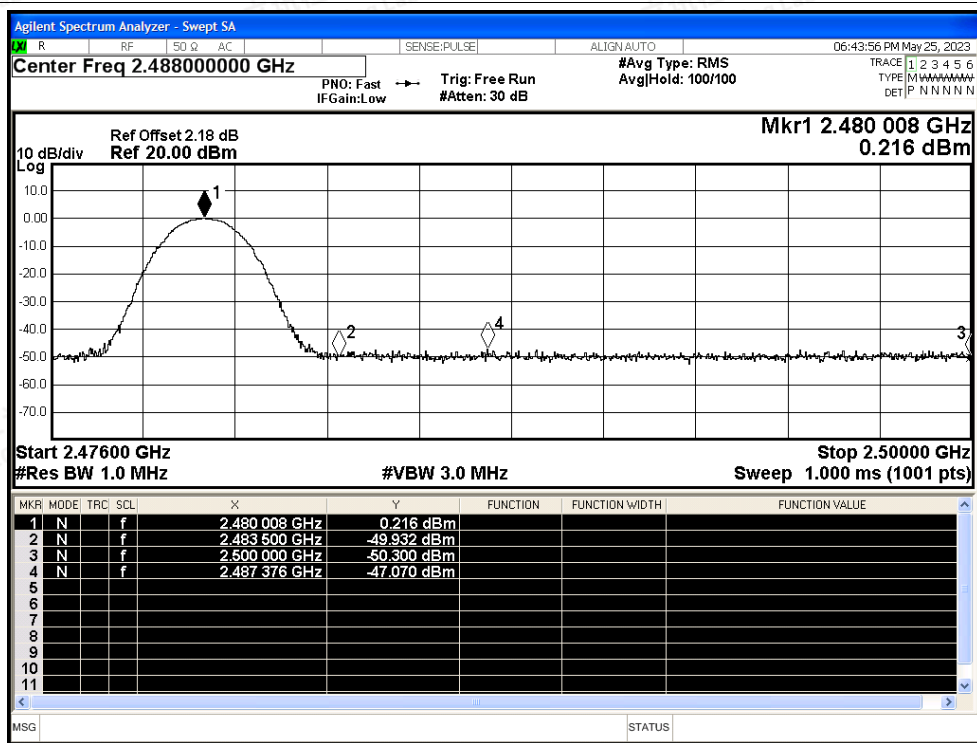


Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average





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



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

