

Appendix Test Data

Report No.:	18220WC40049401	Test Sample No.:	1-2-2
Start Test Date:	2024.3.20	Finish Test Date:	2024.3.22
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24℃	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: -20dB Bandwidth

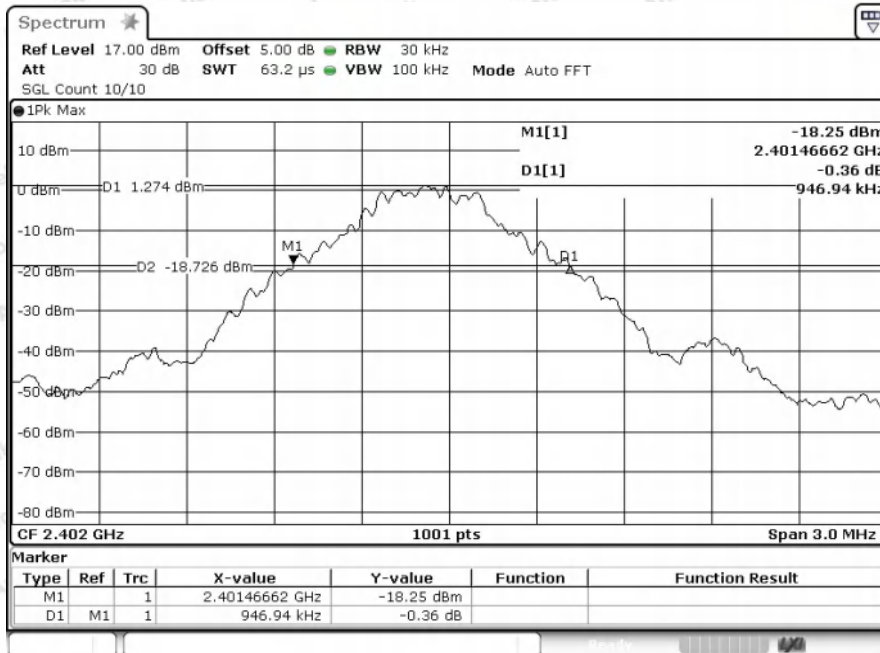
Test Result

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.947	No
NVNT	ANT1	1-DH5	2441.00	0.944	No
NVNT	ANT1	1-DH5	2480.00	0.947	No
NVNT	ANT1	2-DH5	2402.00	1.343	Yes
NVNT	ANT1	2-DH5	2441.00	1.343	Yes
NVNT	ANT1	2-DH5	2480.00	1.343	Yes
NVNT	ANT1	3-DH5	2402.00	1.331	Yes
NVNT	ANT1	3-DH5	2441.00	1.331	Yes
NVNT	ANT1	3-DH5	2480.00	1.325	Yes

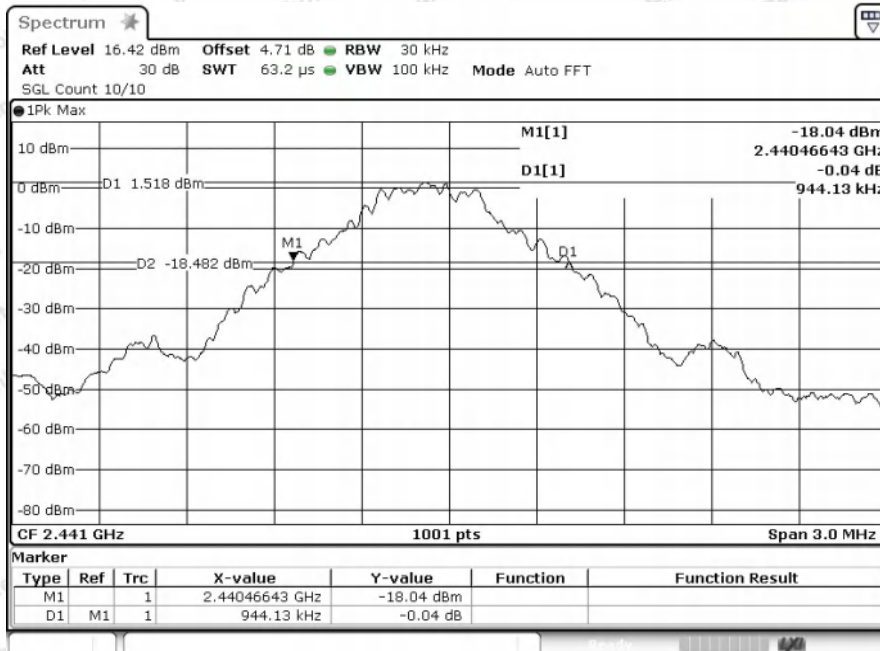


Test Graphs

-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402

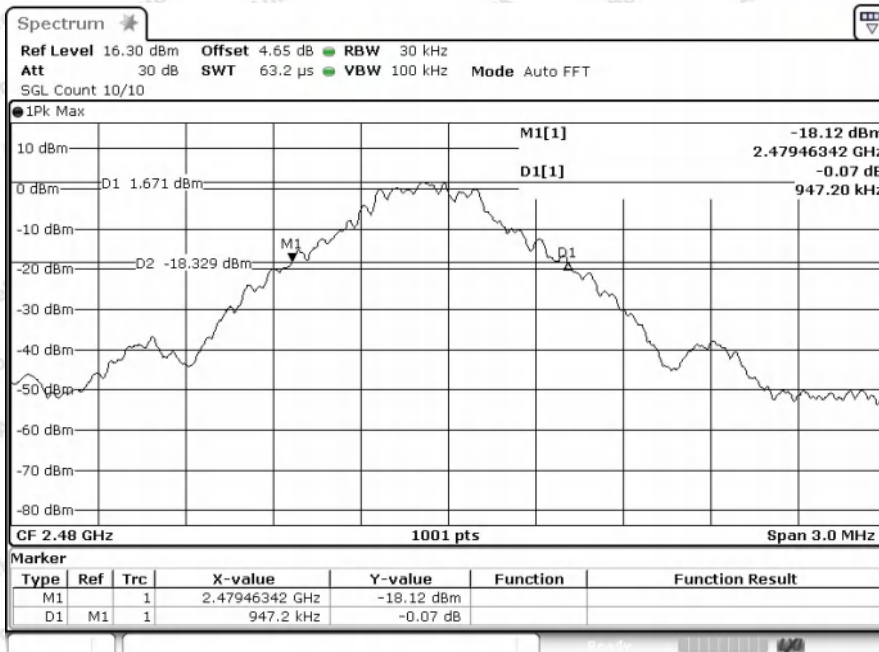


-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441

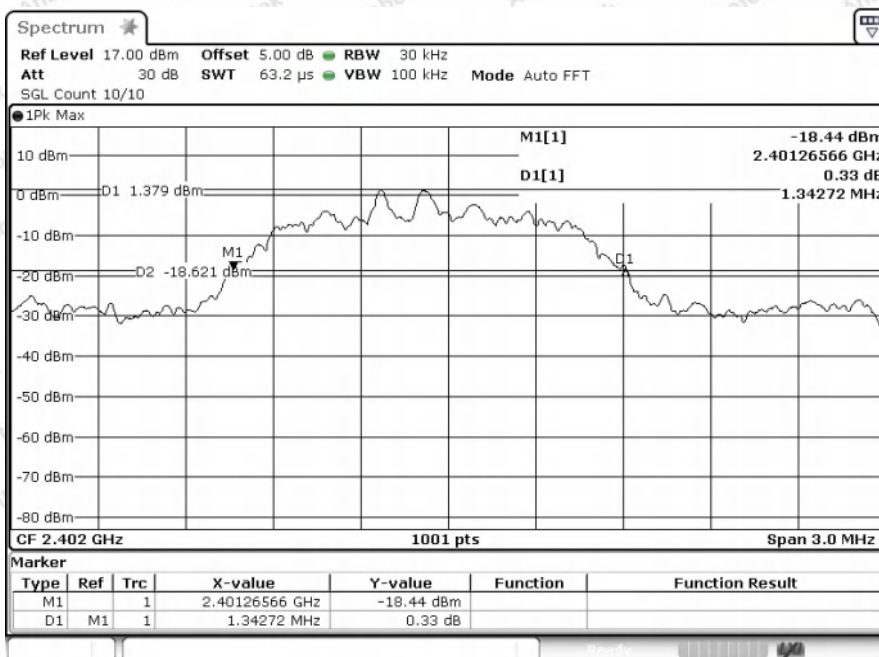


-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480



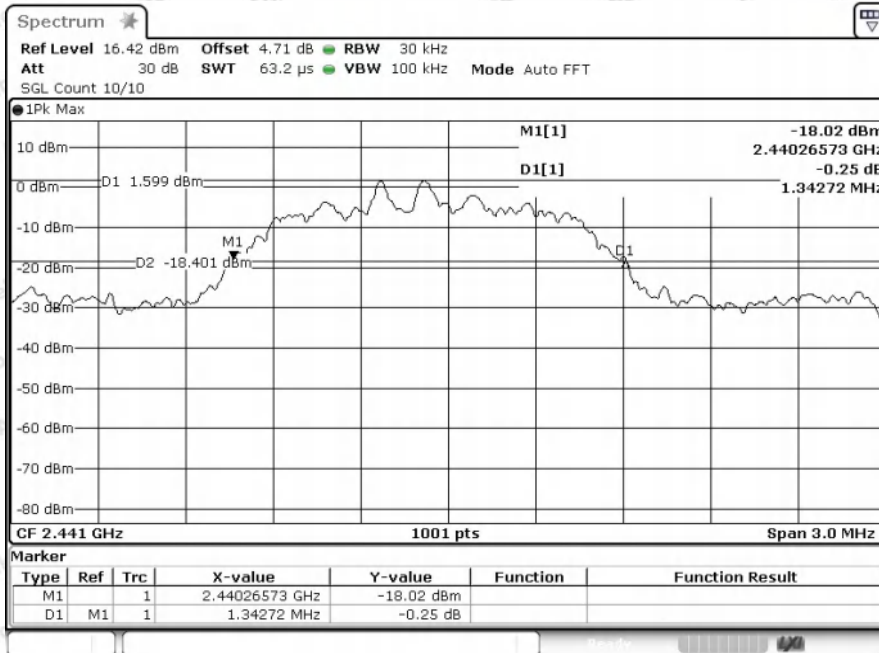


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402

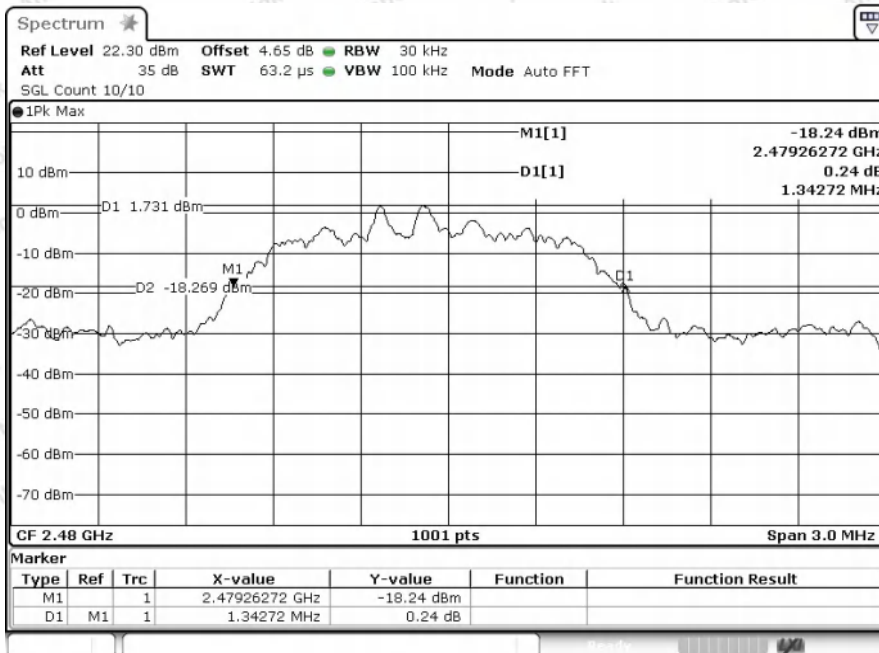


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441



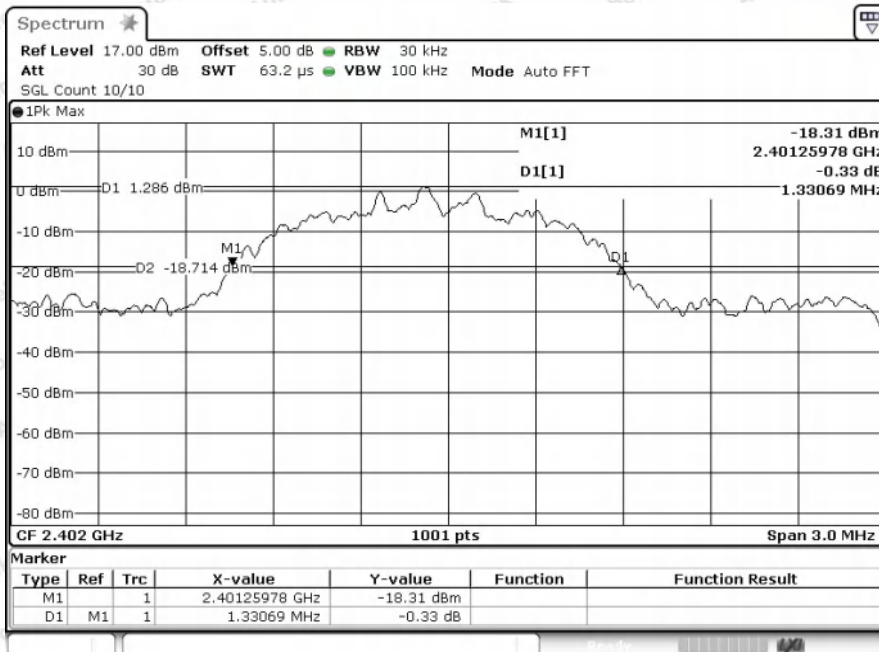


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480

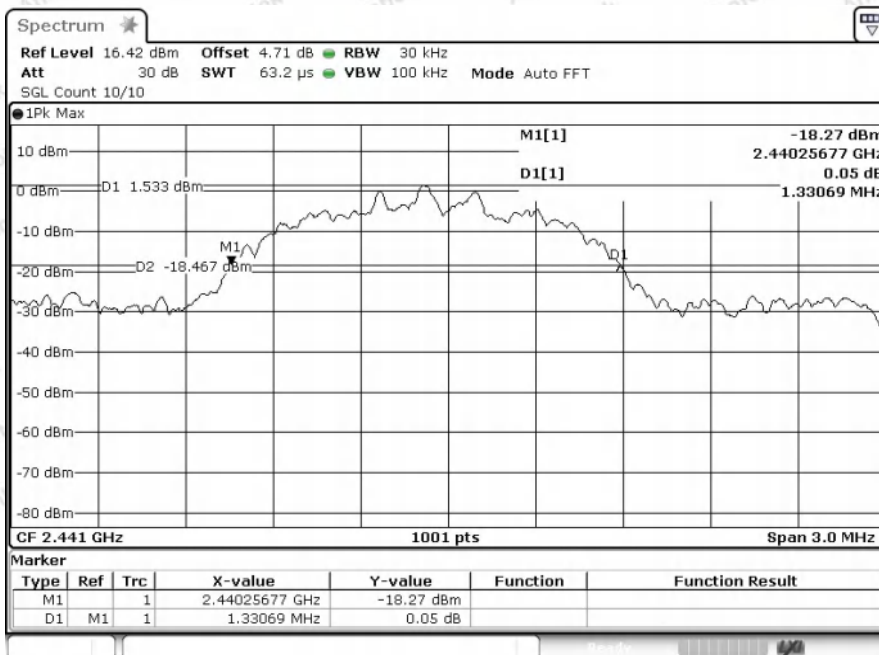


-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402



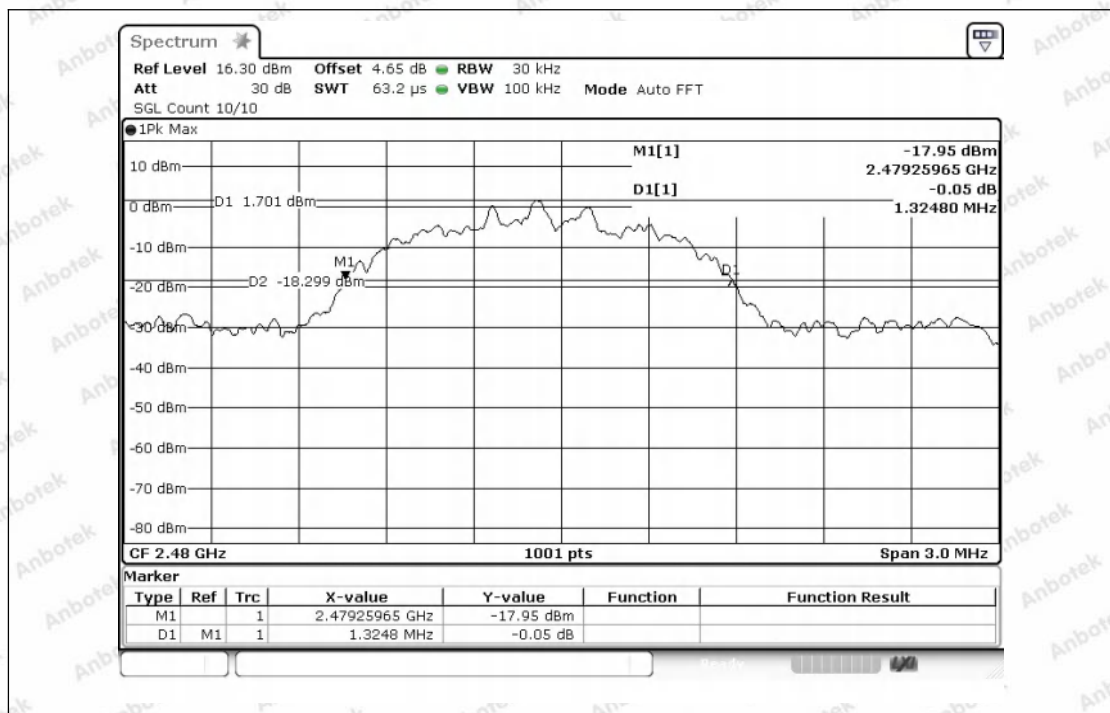


-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480





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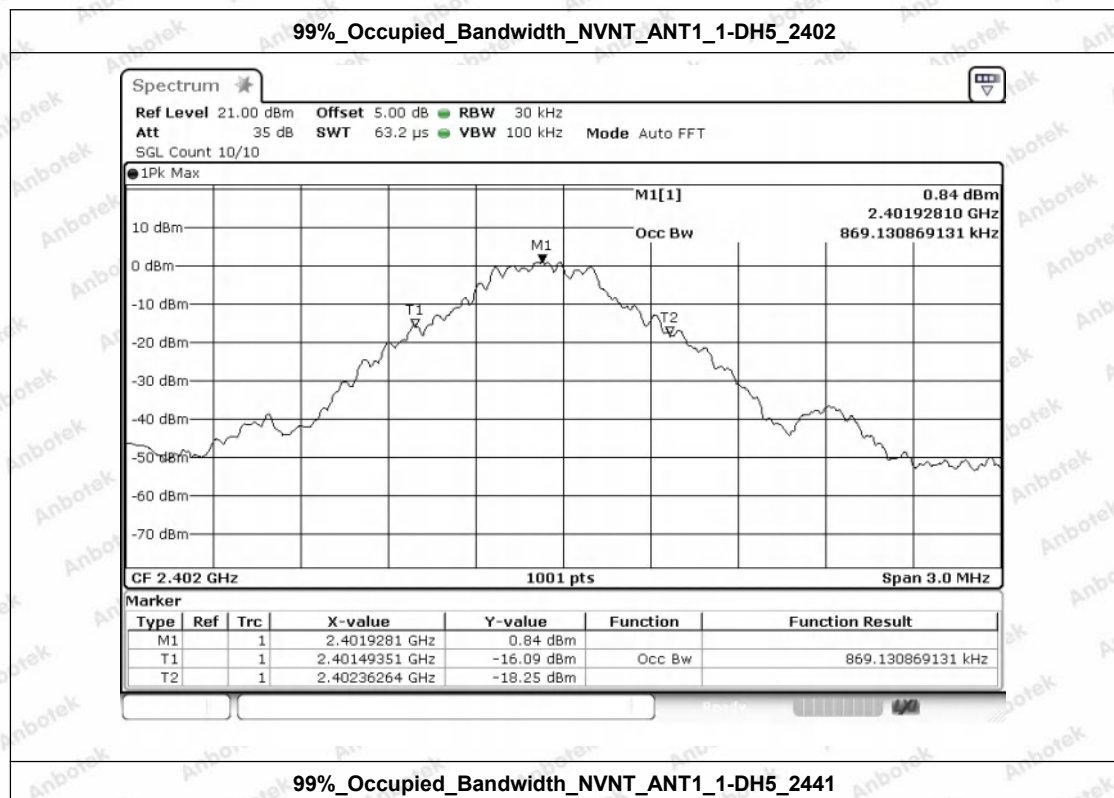


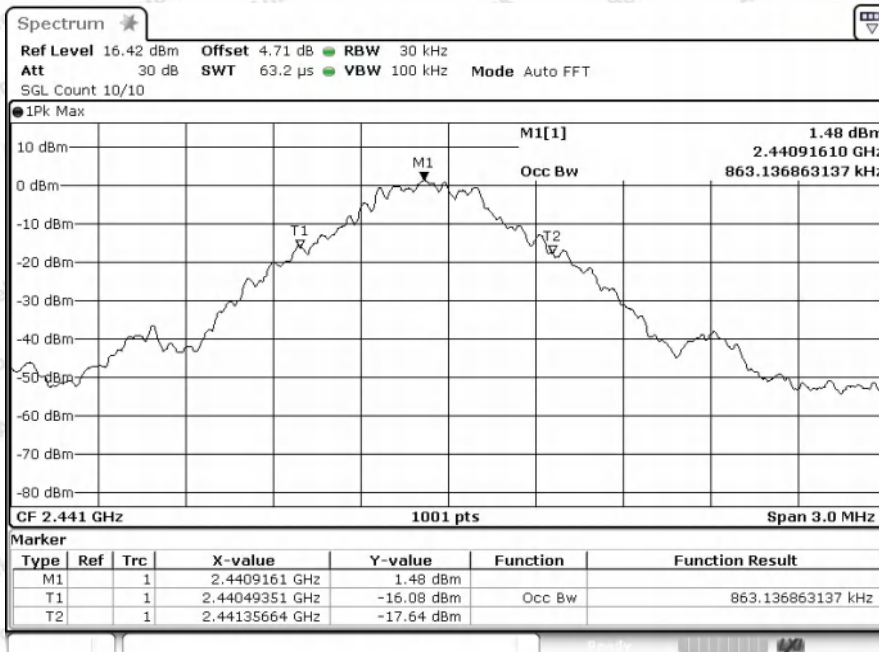
Appendix B: 99% Occupied Bandwidth

Test Result

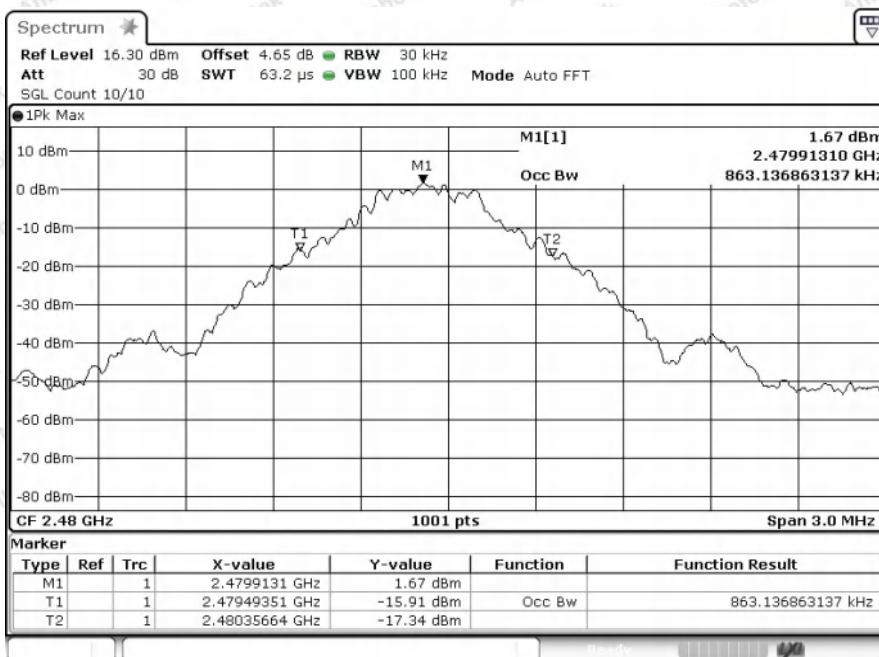
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.869
NVNT	ANT1	1-DH5	2441.00	0.863
NVNT	ANT1	1-DH5	2480.00	0.863
NVNT	ANT1	2-DH5	2402.00	1.310
NVNT	ANT1	2-DH5	2441.00	1.307
NVNT	ANT1	2-DH5	2480.00	1.256
NVNT	ANT1	3-DH5	2402.00	1.301
NVNT	ANT1	3-DH5	2441.00	1.298
NVNT	ANT1	3-DH5	2480.00	1.259

Test Graphs



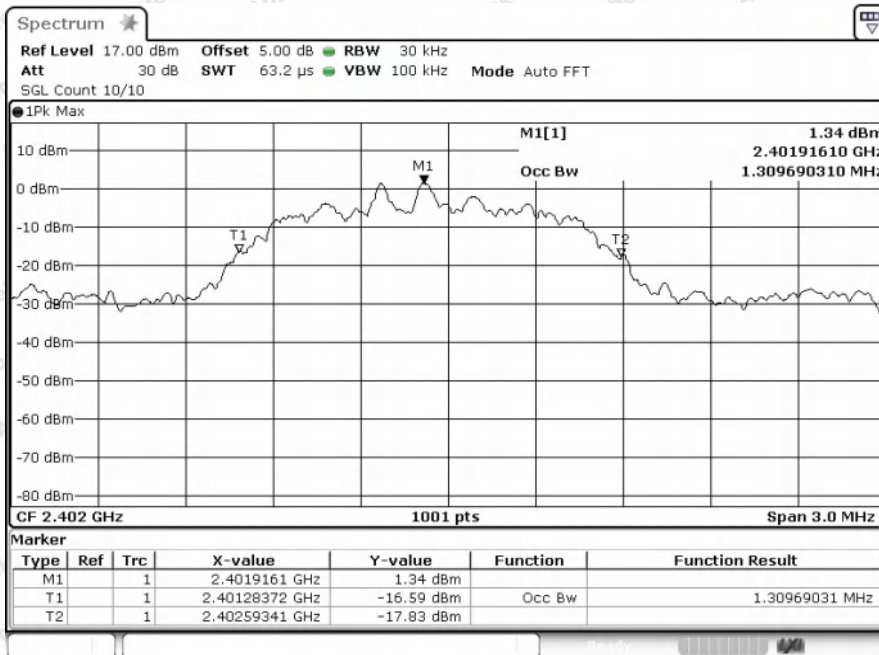


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480

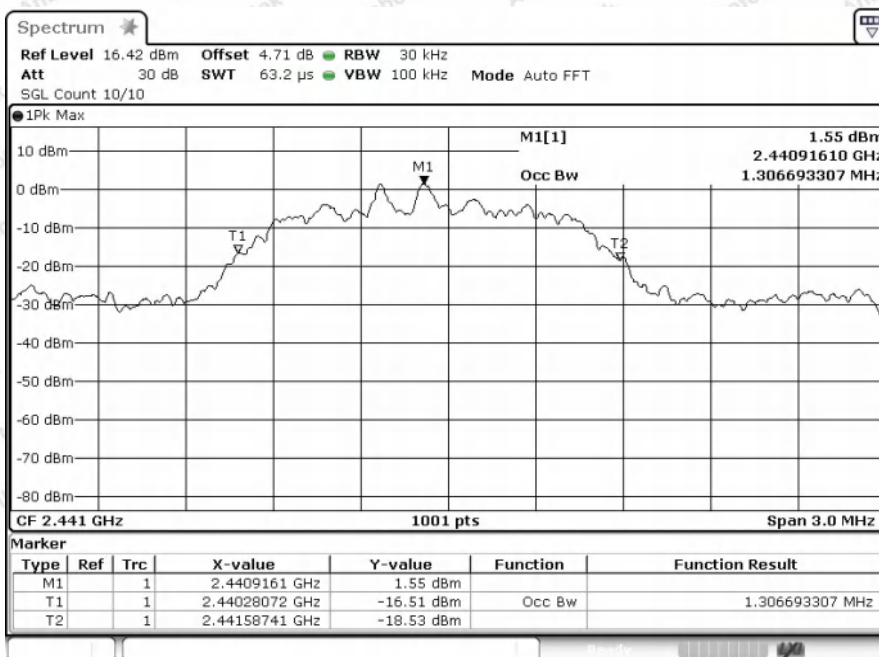


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402



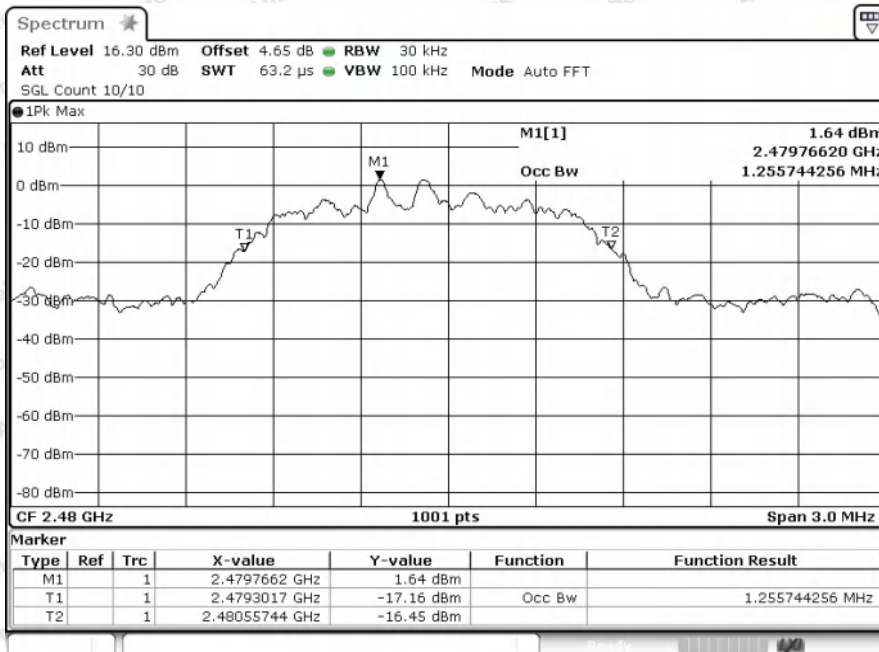


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441

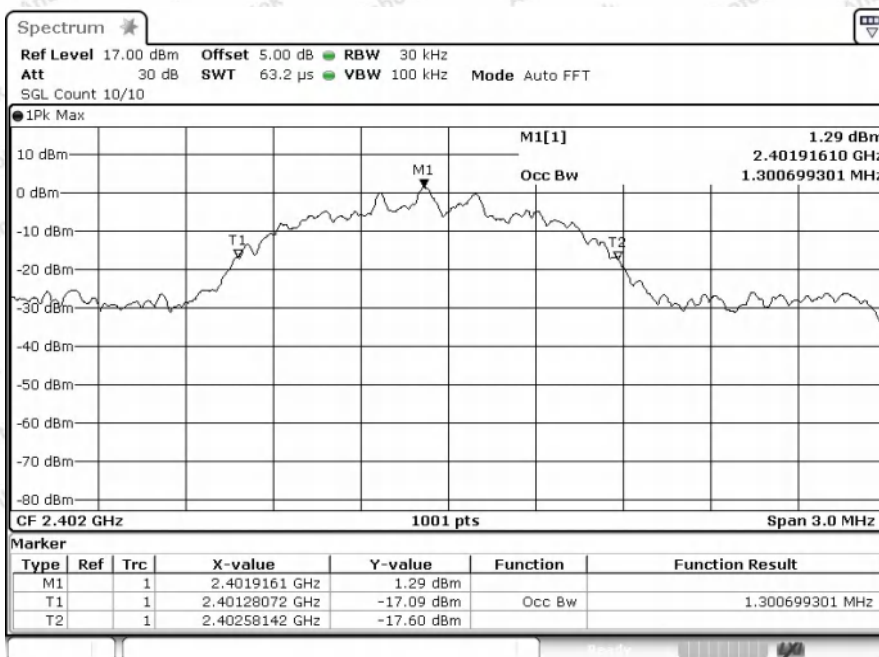


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480



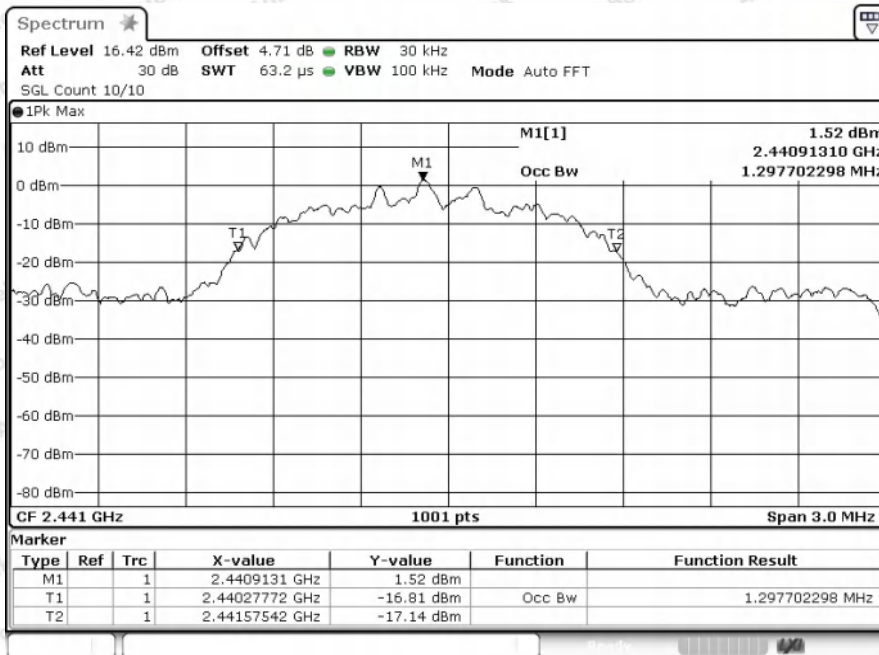


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402

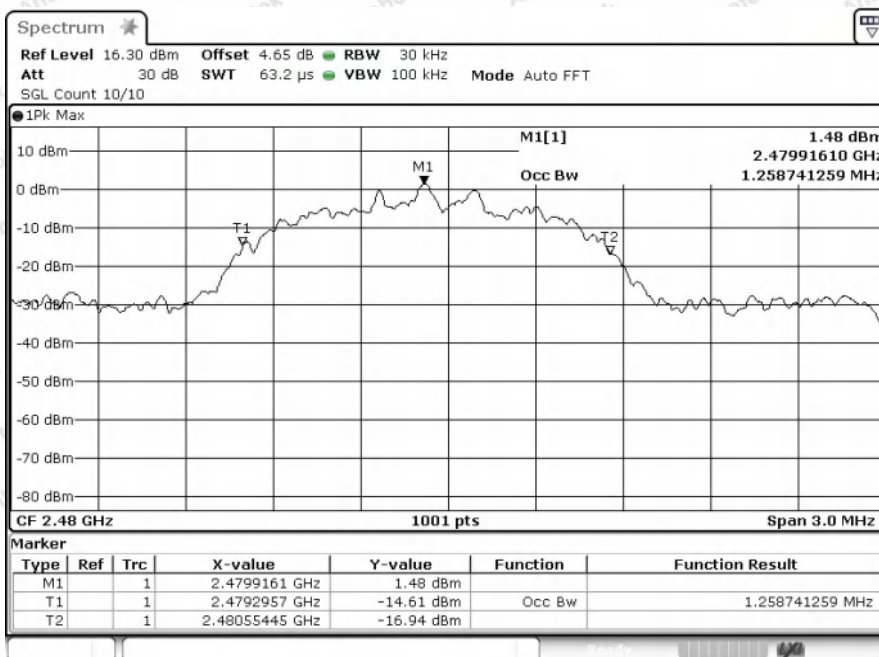


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2441





99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2480

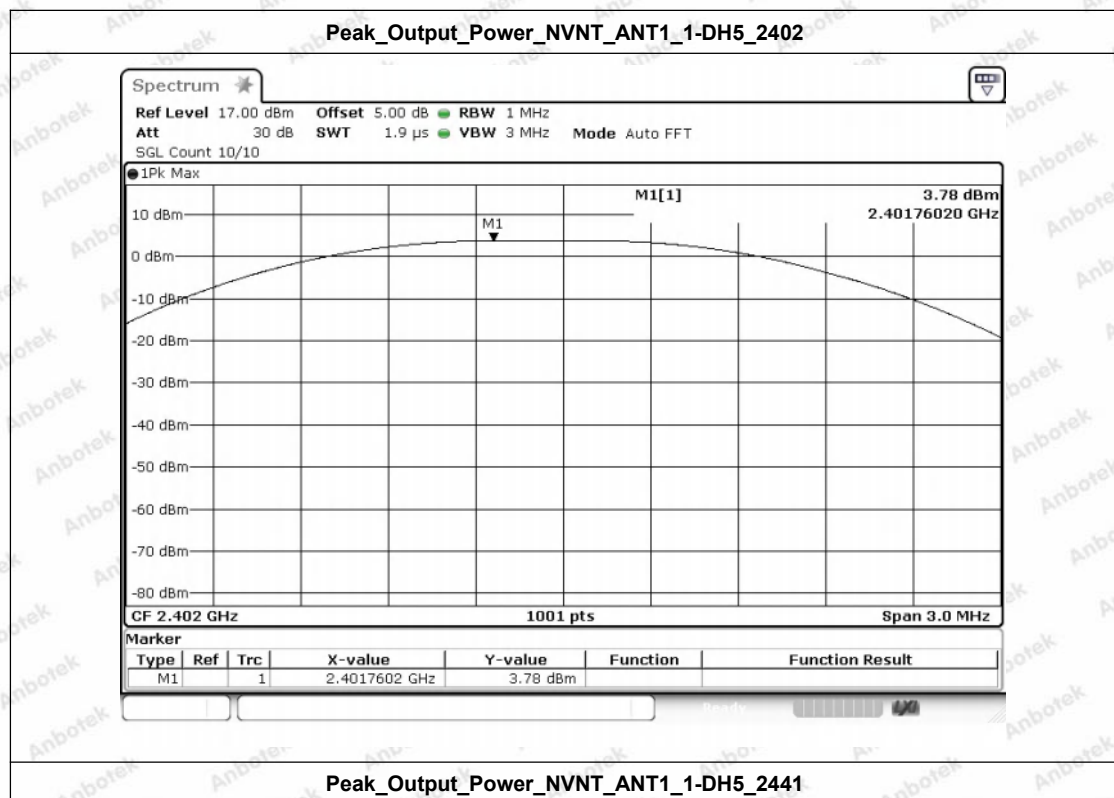


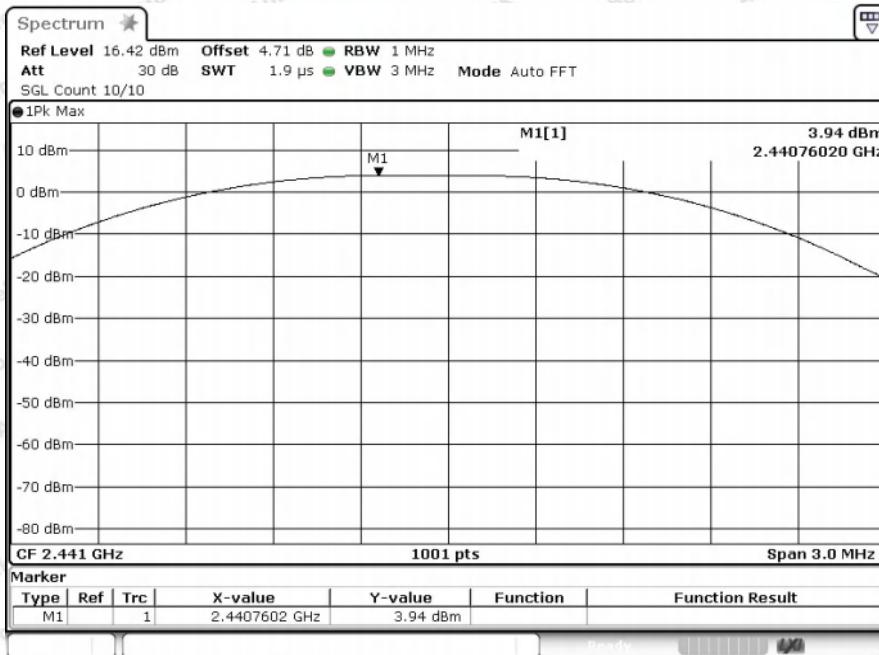
Appendix C: Peak Output Power

Test Result Peak

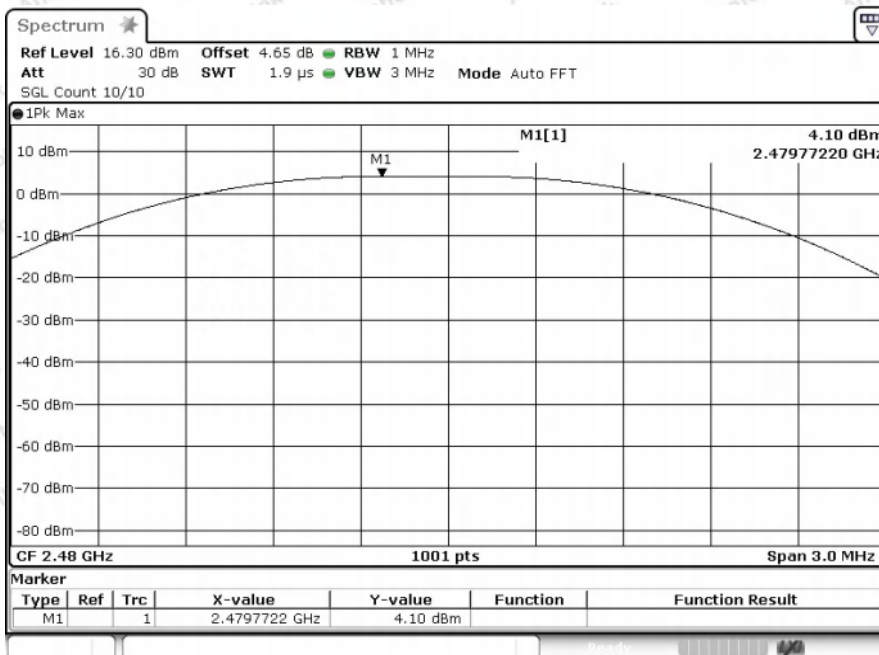
Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH5	2402.00	3.78	2.39	1000	Pass
NVNT	ANT1	1-DH5	2441.00	3.94	2.48	1000	Pass
NVNT	ANT1	1-DH5	2480.00	4.10	2.57	1000	Pass
NVNT	ANT1	2-DH5	2402.00	3.99	2.51	125	Pass
NVNT	ANT1	2-DH5	2441.00	4.19	2.63	125	Pass
NVNT	ANT1	2-DH5	2480.00	4.40	2.75	125	Pass
NVNT	ANT1	3-DH5	2402.00	4.05	2.54	125	Pass
NVNT	ANT1	3-DH5	2441.00	4.26	2.67	125	Pass
NVNT	ANT1	3-DH5	2480.00	4.49	2.81	125	Pass

Test Graphs Peak



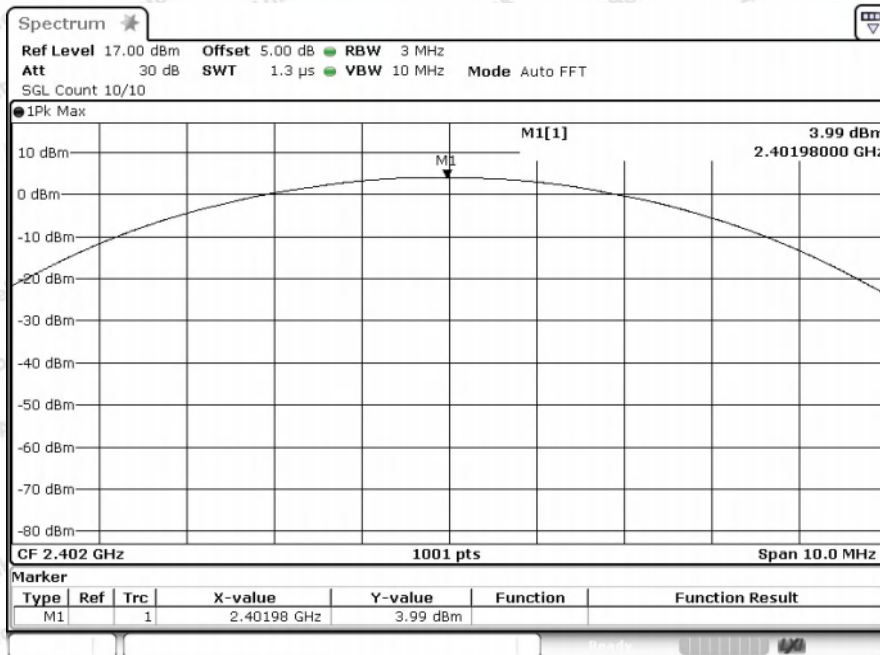


Peak_Output_Power_NVNT_ANT1_1-DH5_2480

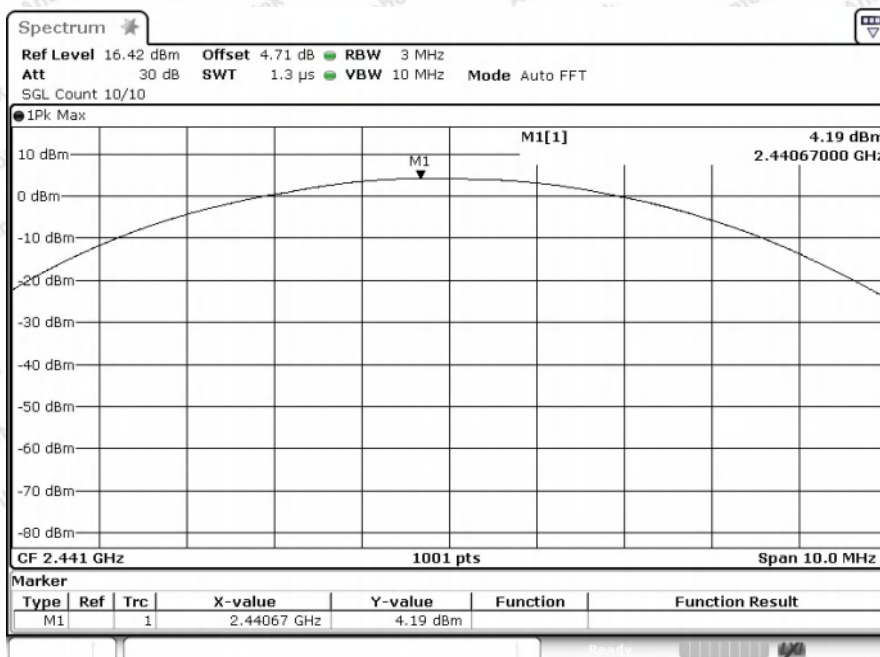


Peak_Output_Power_NVNT_ANT1_2-DH5_2402



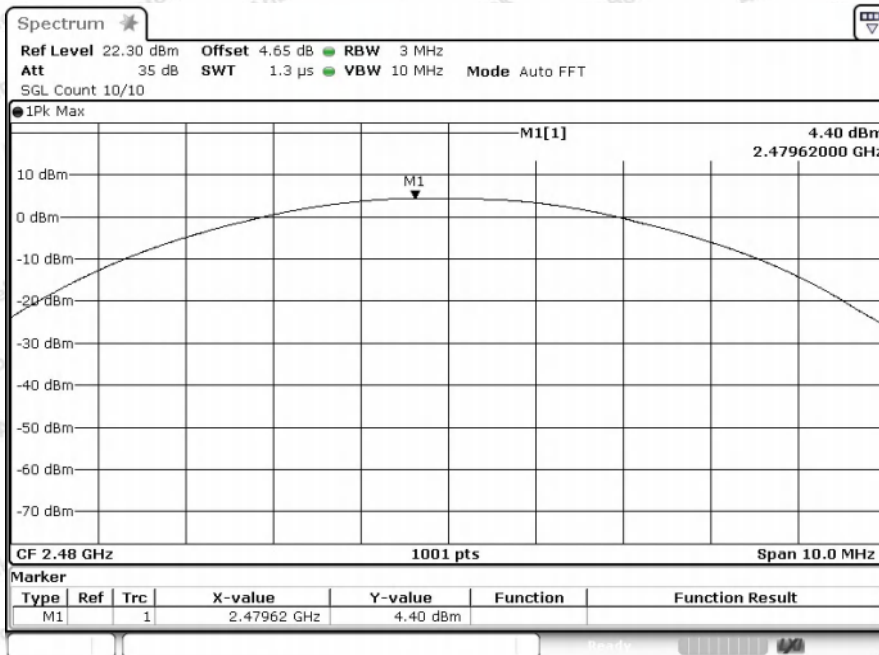


Peak_Output_Power_NVNT_ANT1_2-DH5_2441

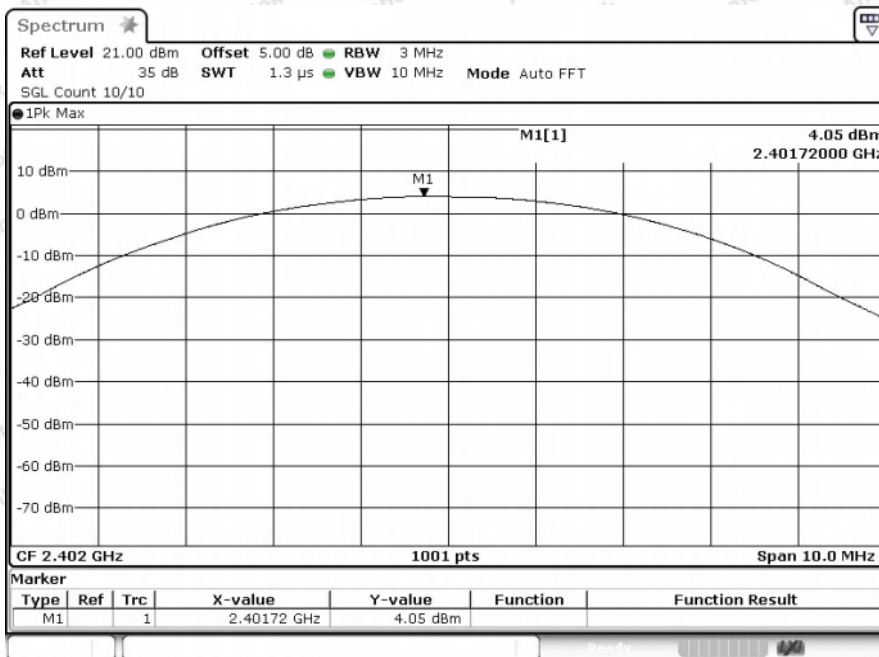


Peak_Output_Power_NVNT_ANT1_2-DH5_2480



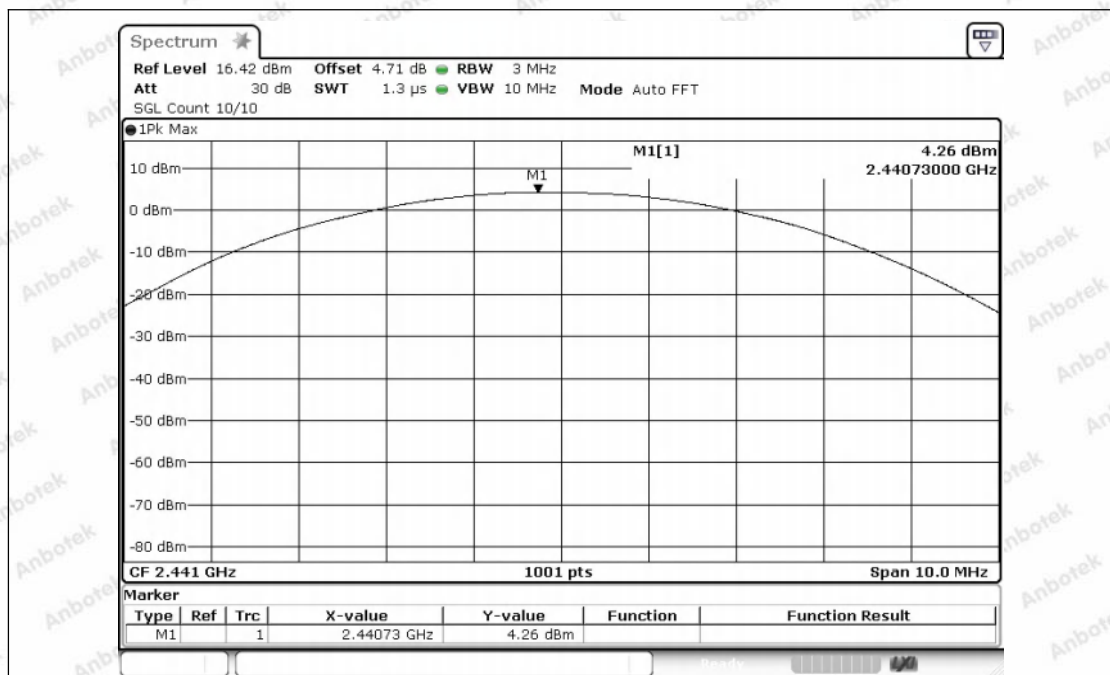


Peak_Output_Power_NVNT_ANT1_3-DH5_2402

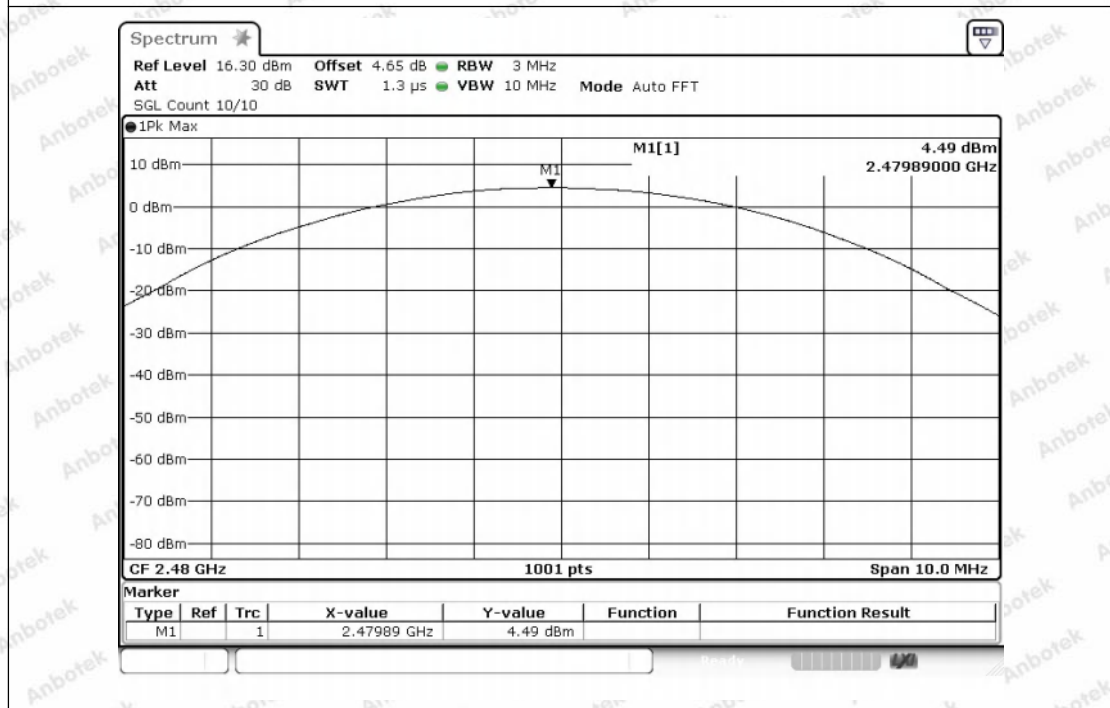


Peak_Output_Power_NVNT_ANT1_3-DH5_2441





Peak_Output_Power_NVNT_ANT1_3-DH5_2480



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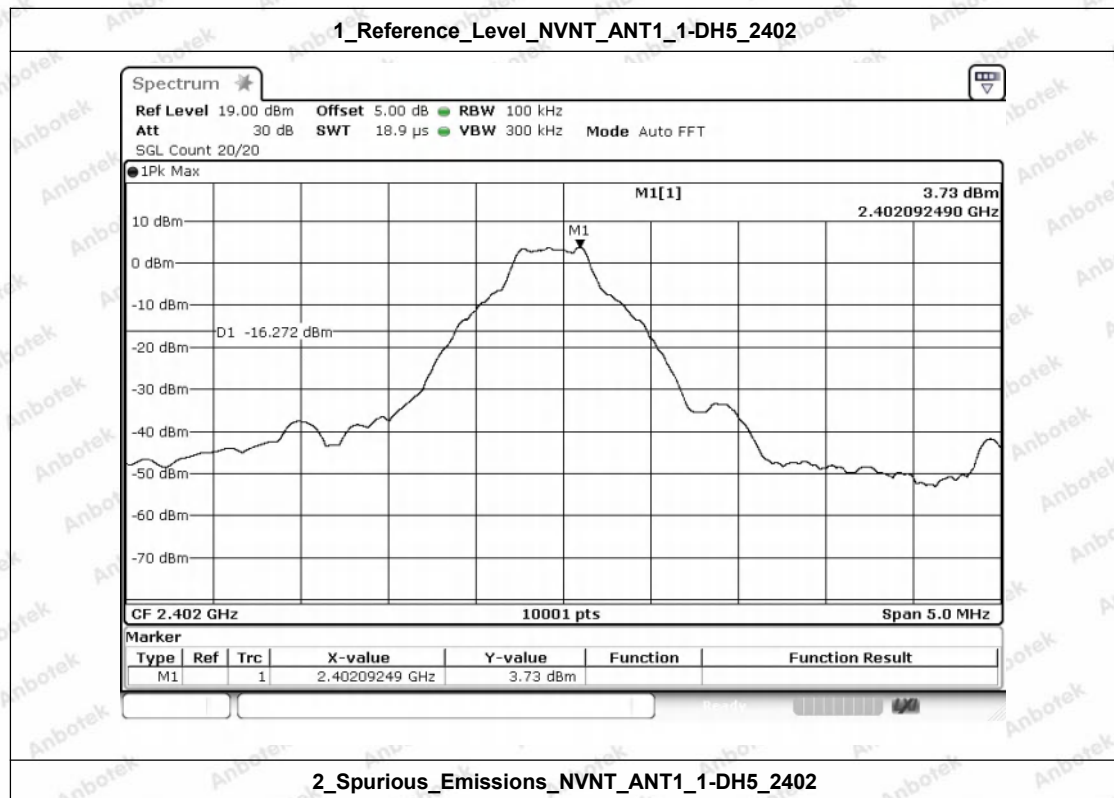


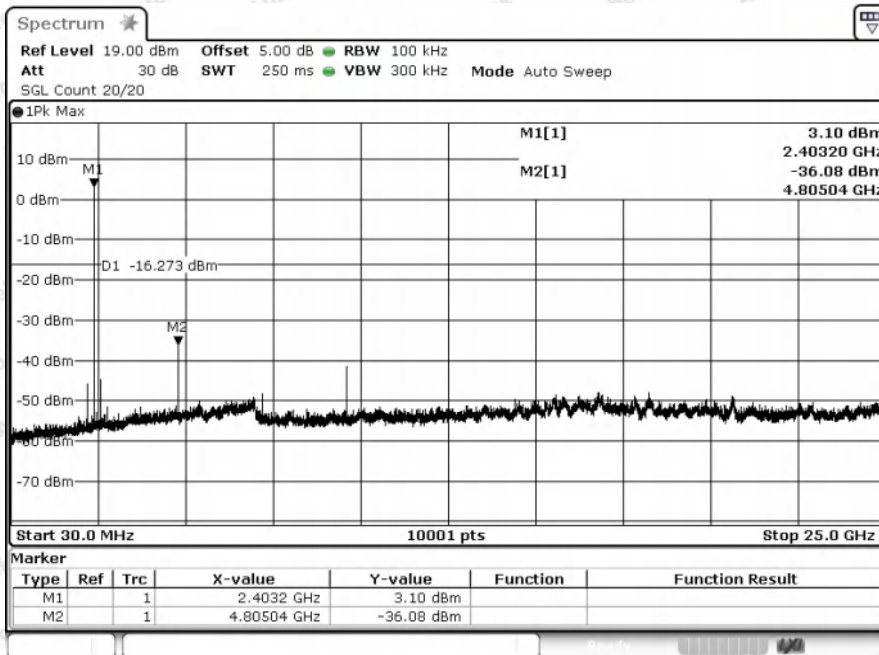
Appendix D: Spurious Emissions

Test Result

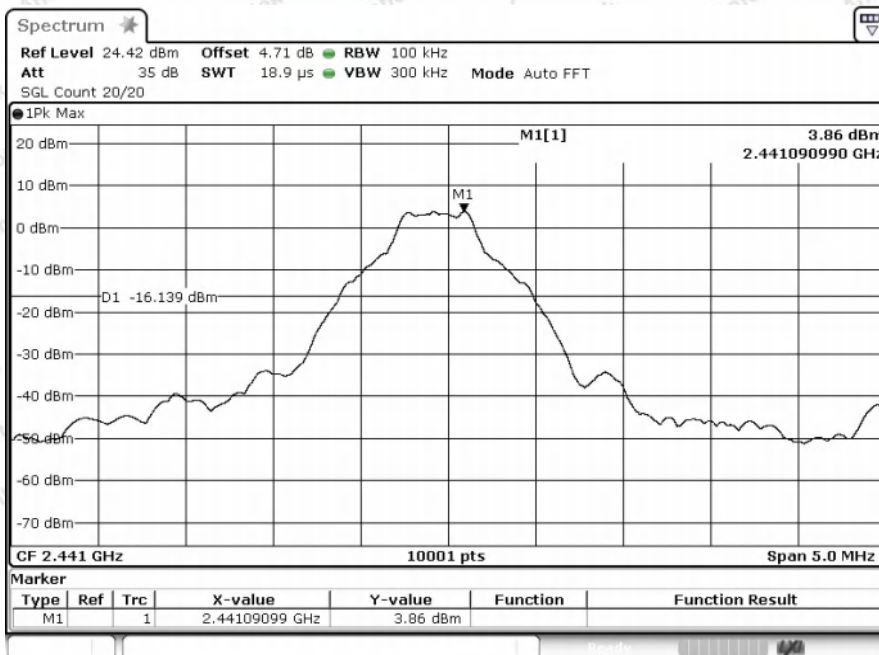
Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-36.078	-16.273	Pass
NVNT	ANT1	1-DH5	2441.00	-36.543	-16.139	Pass
NVNT	ANT1	1-DH5	2480.00	-38.188	-15.996	Pass
NVNT	ANT1	2-DH5	2402.00	-35.974	-16.249	Pass
NVNT	ANT1	2-DH5	2441.00	-38.375	-16.084	Pass
NVNT	ANT1	2-DH5	2480.00	-38.292	-15.908	Pass
NVNT	ANT1	3-DH5	2402.00	-41.285	-16.330	Pass
NVNT	ANT1	3-DH5	2441.00	-36.975	-16.133	Pass
NVNT	ANT1	3-DH5	2480.00	-38.588	-15.957	Pass

Test Graphs



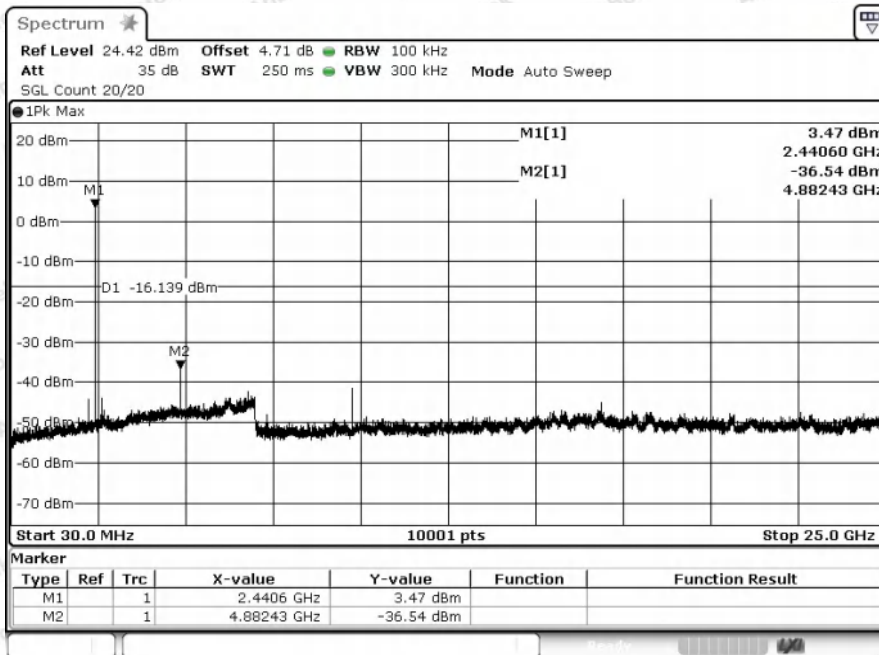


1_Reference_Level_NVNT_ANT1_1-DH5_2441

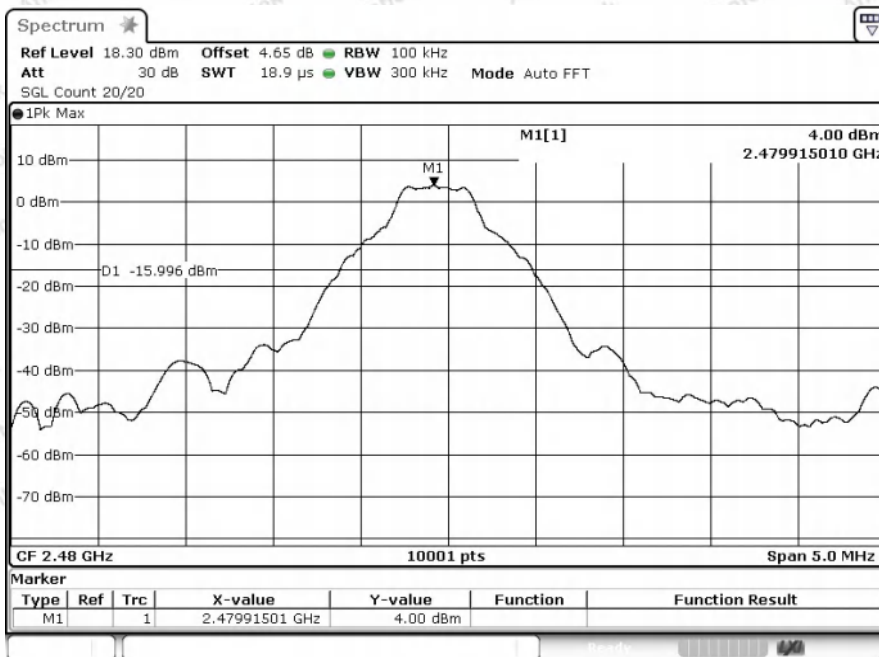


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441



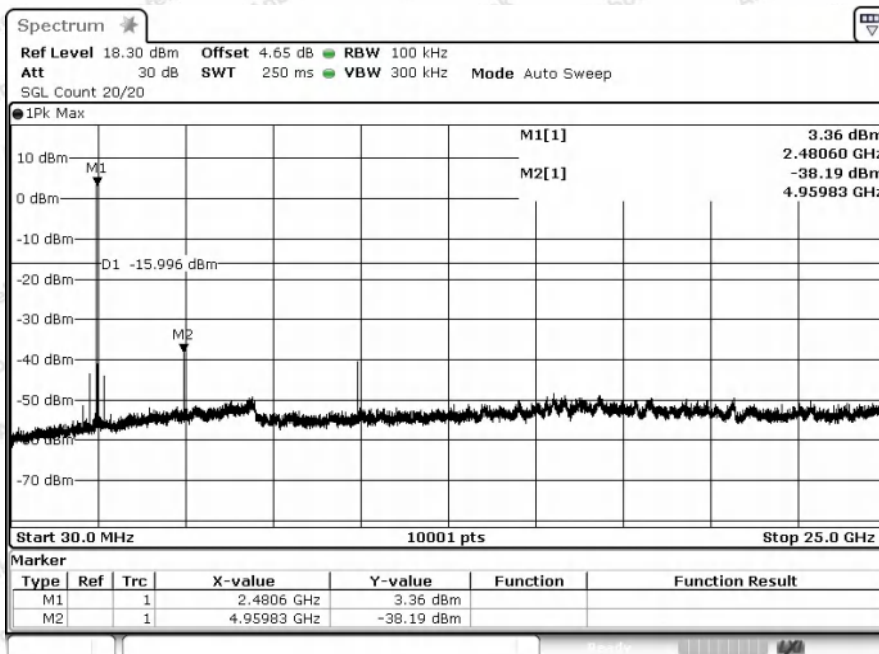


1_Reference_Level_NVNT_ANT1_1-DH5_2480

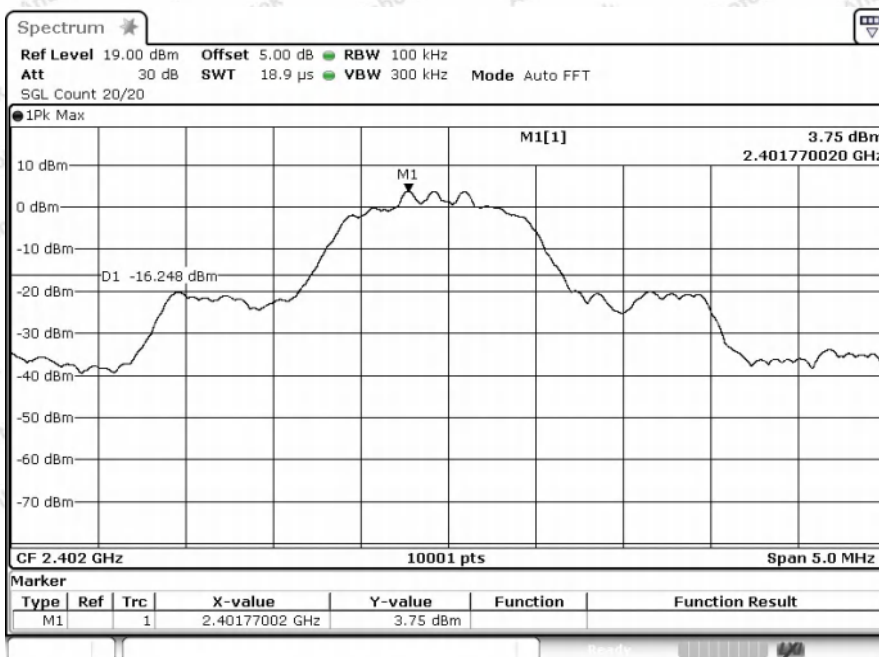


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480





1_Reference_Level_NVNT_ANT1_2-DH5_2402



2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402

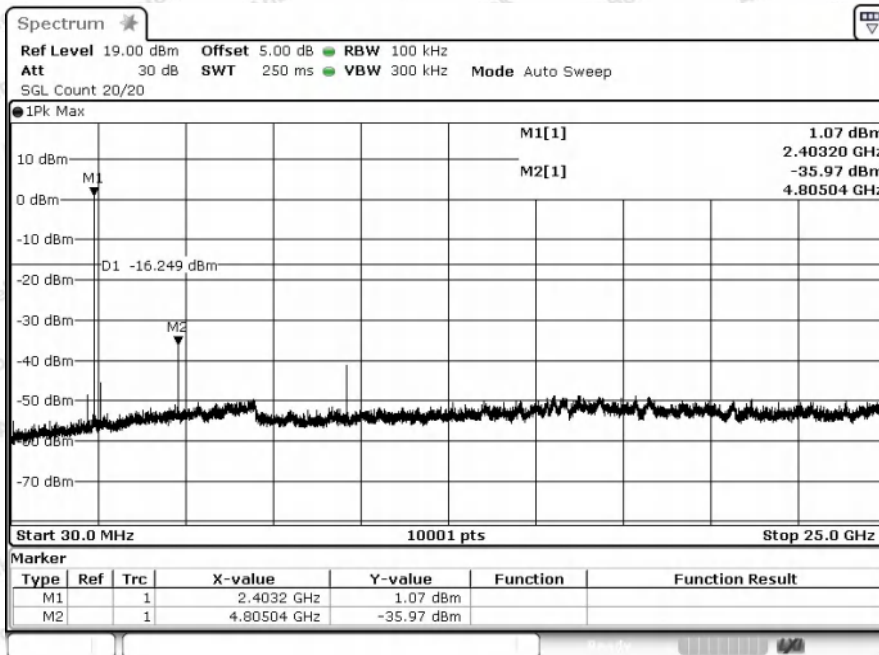
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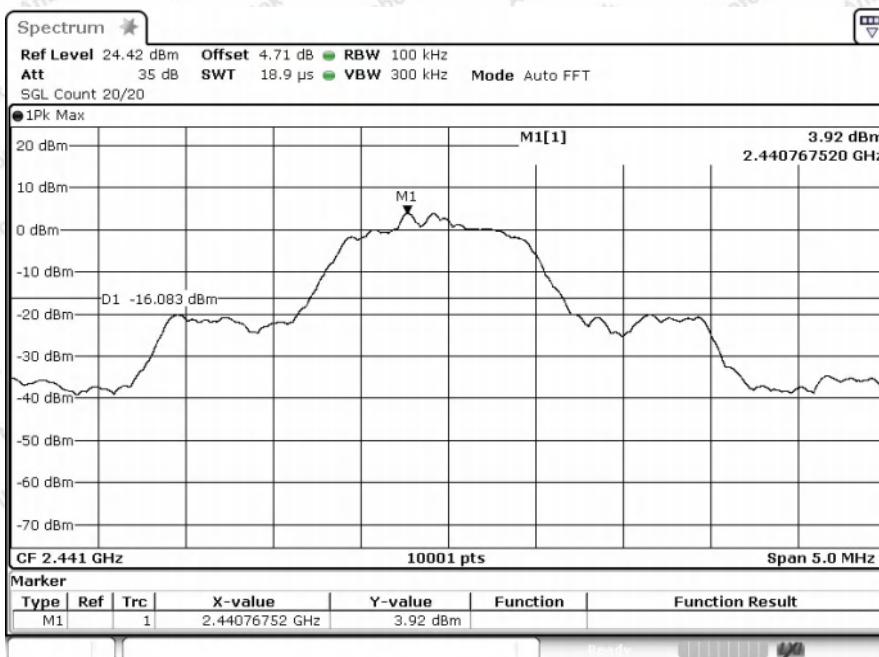


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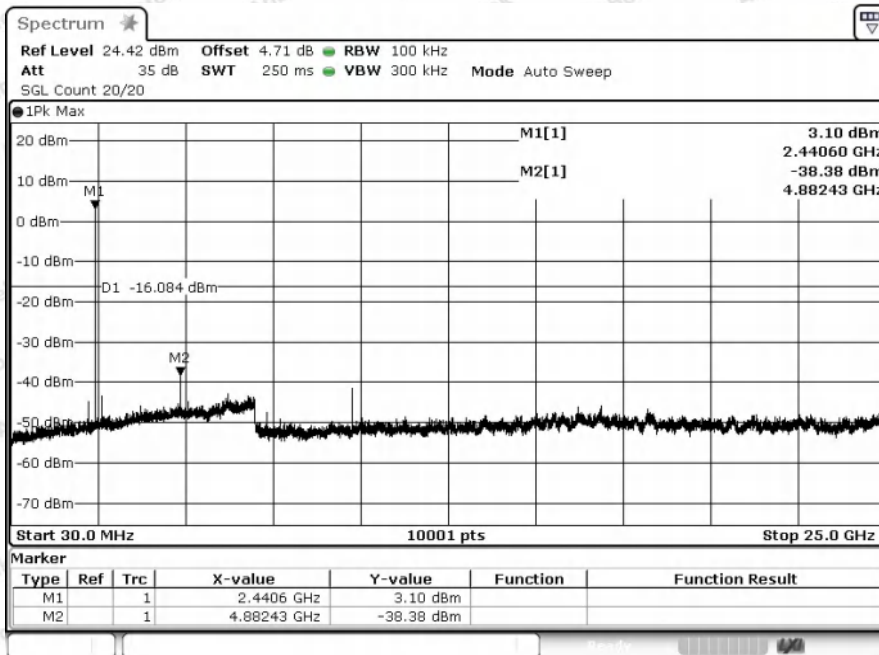


1_Reference_Level_NVNT_ANT1_2-DH5_2441

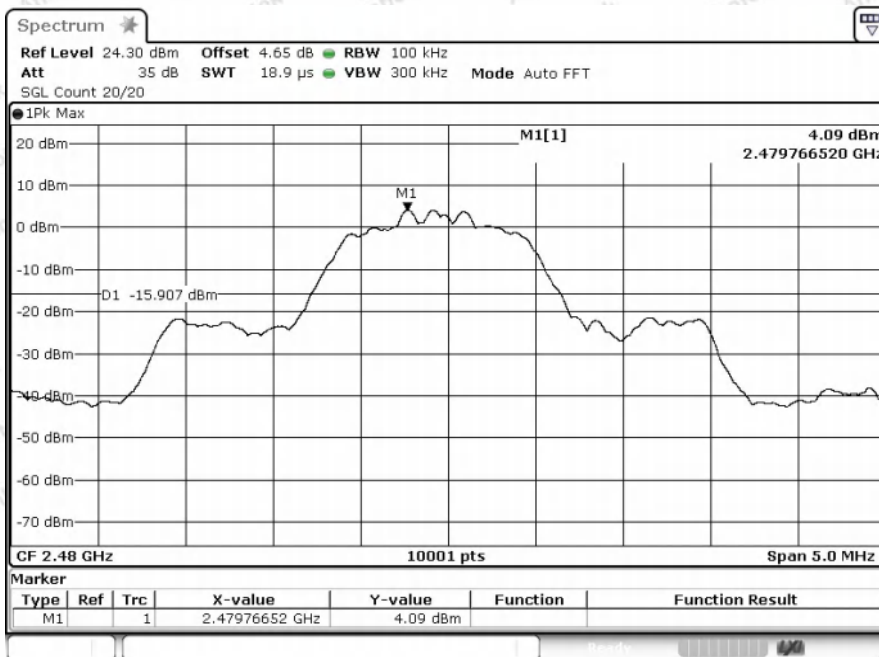


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441



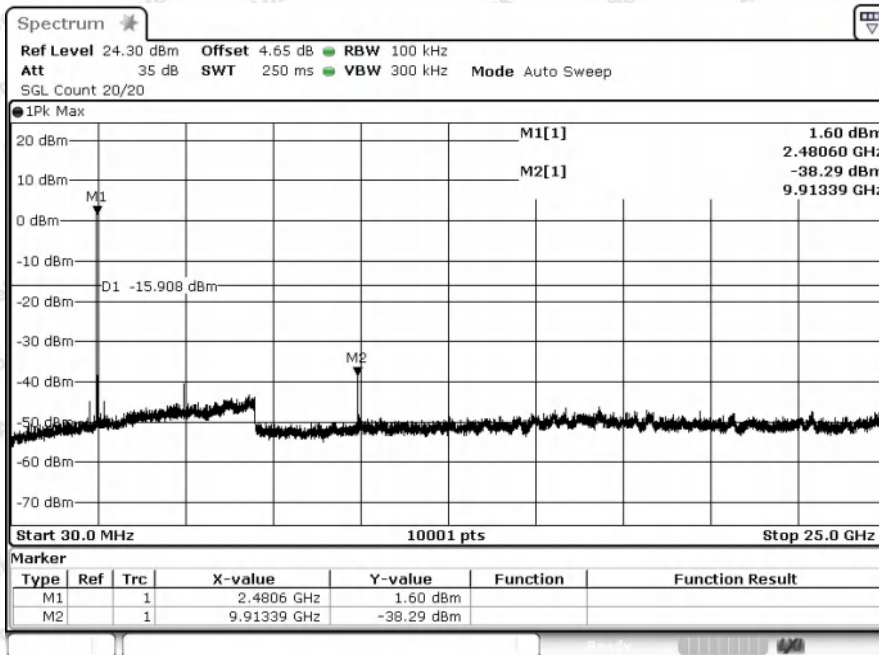


1_Reference_Level_NVNT_ANT1_2-DH5_2480

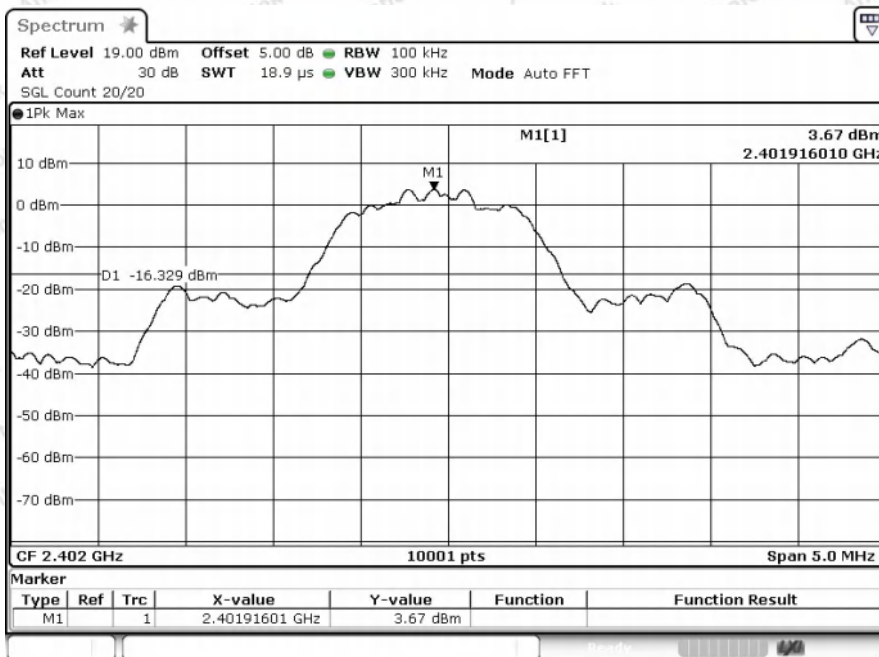


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480



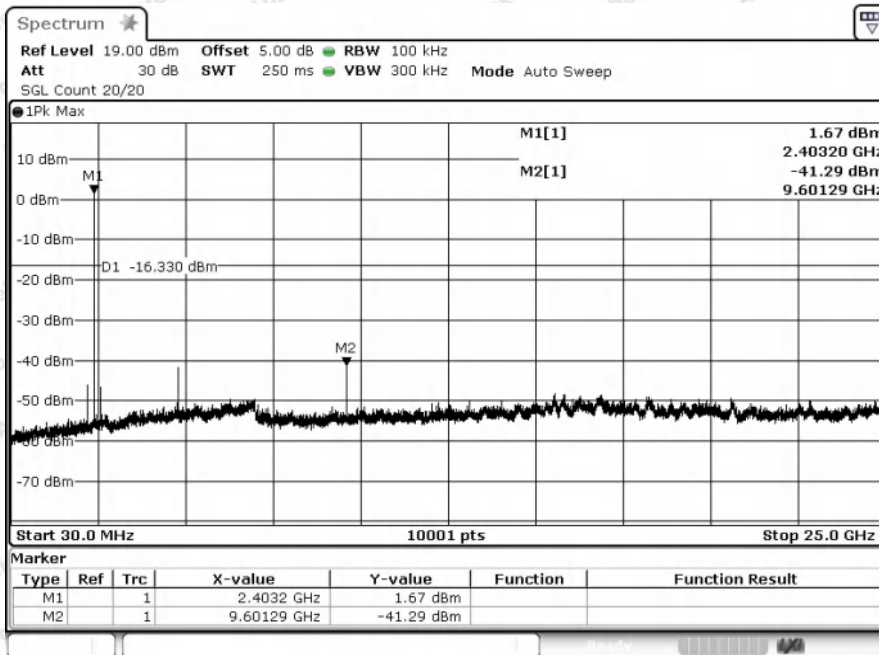


1_Reference_Level_NVNT_ANT1_3-DH5_2402

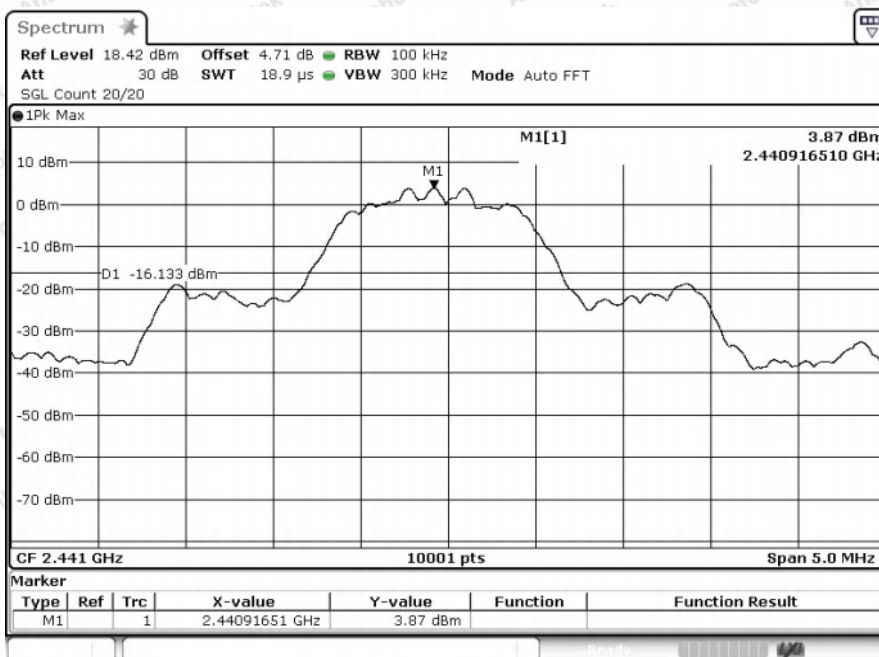


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402



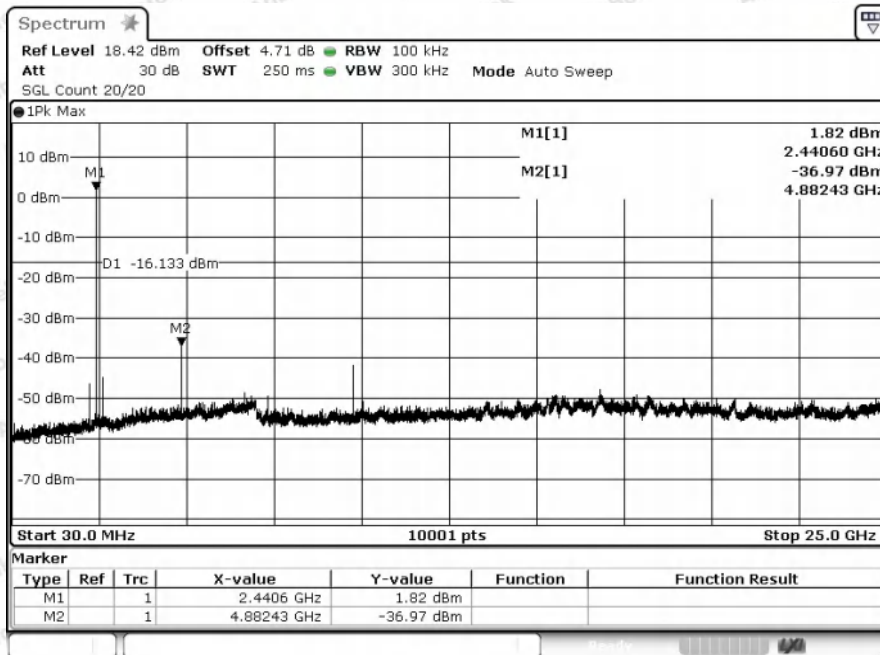


1_Reference_Level_NVNT_ANT1_3-DH5_2441

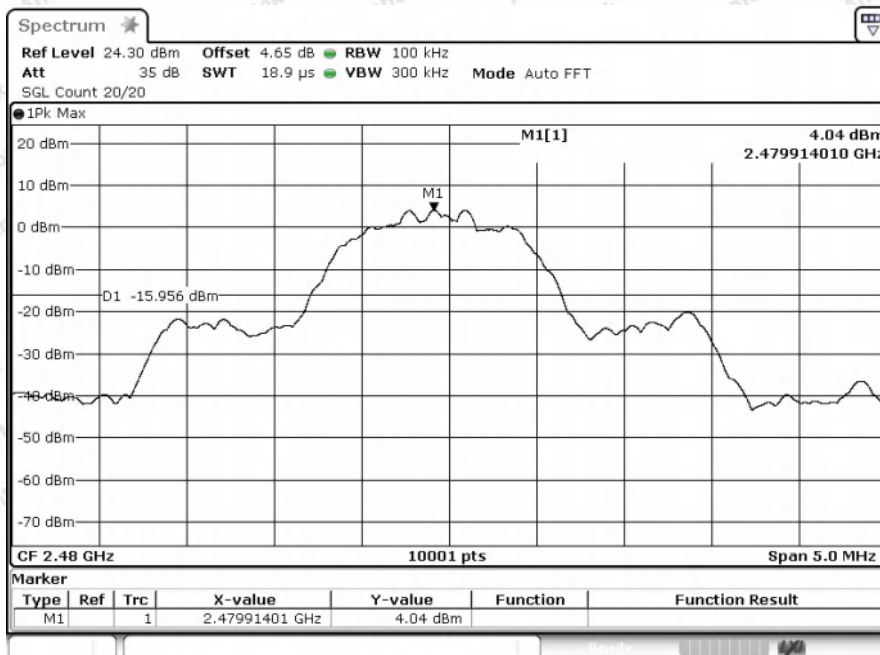


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441





1_Reference_Level_NVNT_ANT1_3-DH5_2480



2_Spurious_Emissions_NVNT_ANT1_3-DH5_2480

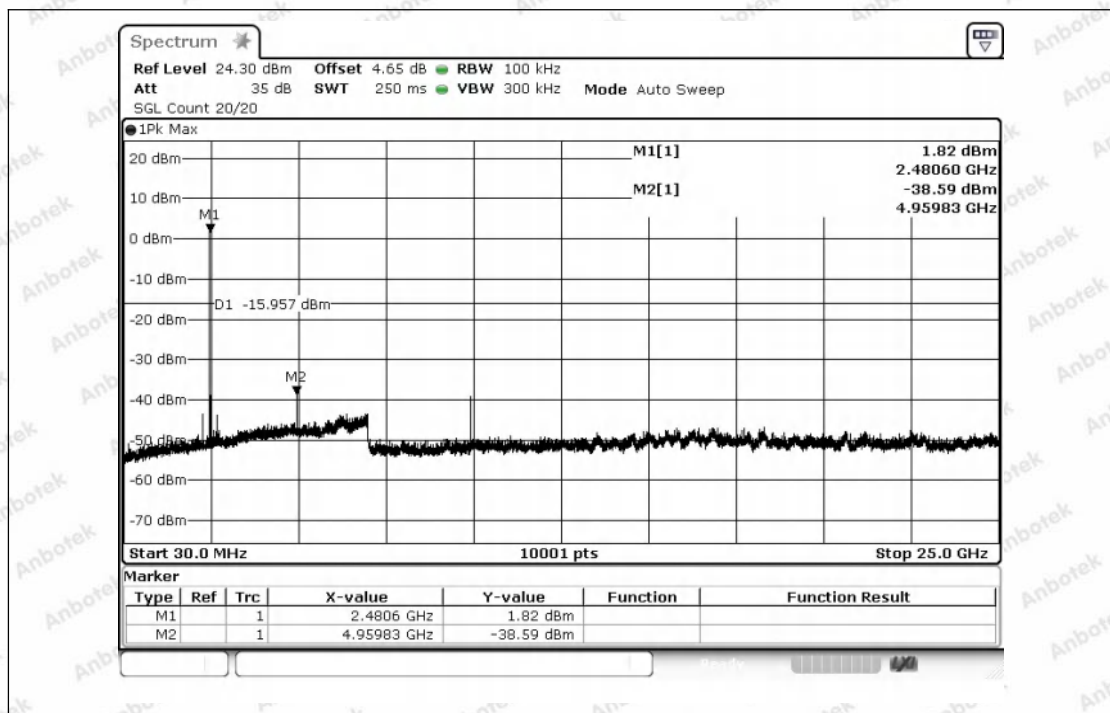
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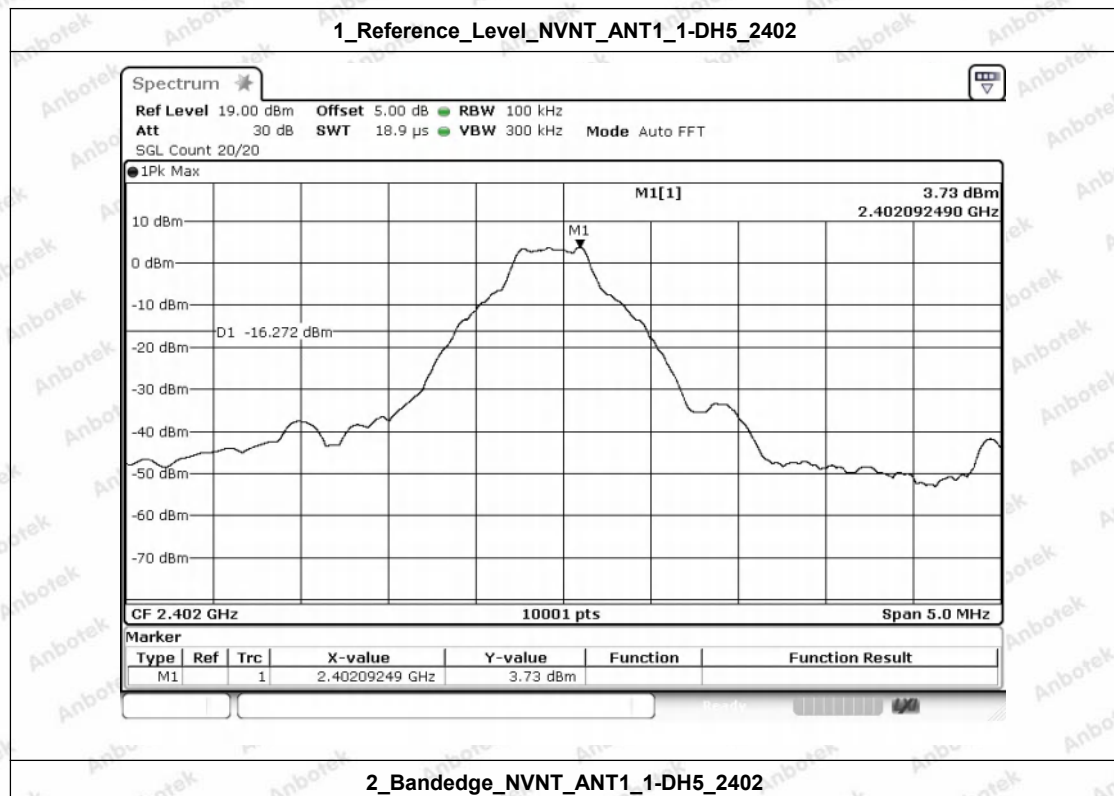


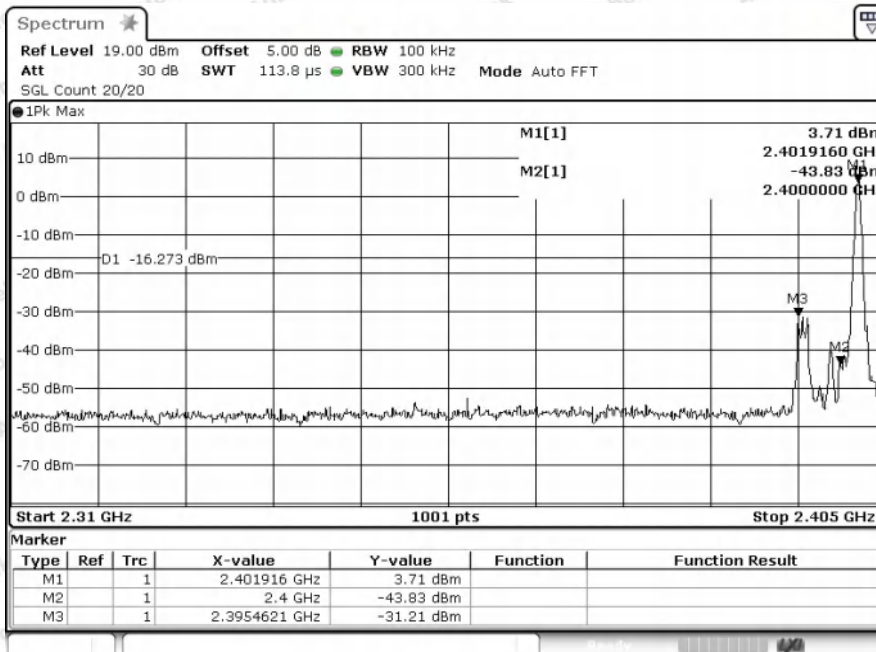
Appendix E: Band edge

Test Result

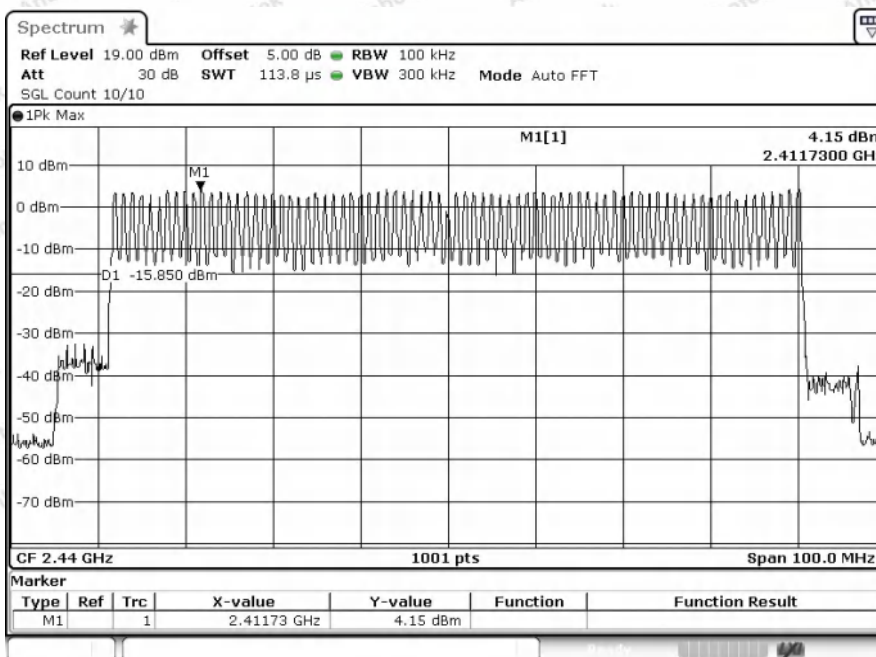
Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-31.214	-16.273	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-32.139	-15.850	Pass
NVNT	ANT1	1-DH5	2480.00	-37.641	-15.996	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-41.770	-16.068	Pass
NVNT	ANT1	2-DH5	2402.00	-30.839	-16.249	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-36.175	-15.629	Pass
NVNT	ANT1	2-DH5	2480.00	-37.006	-15.908	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-38.120	-15.869	Pass
NVNT	ANT1	3-DH5	2402.00	-30.851	-16.330	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-34.601	-15.358	Pass
NVNT	ANT1	3-DH5	2480.00	-37.849	-15.957	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-38.497	-15.991	Pass

Test Graphs



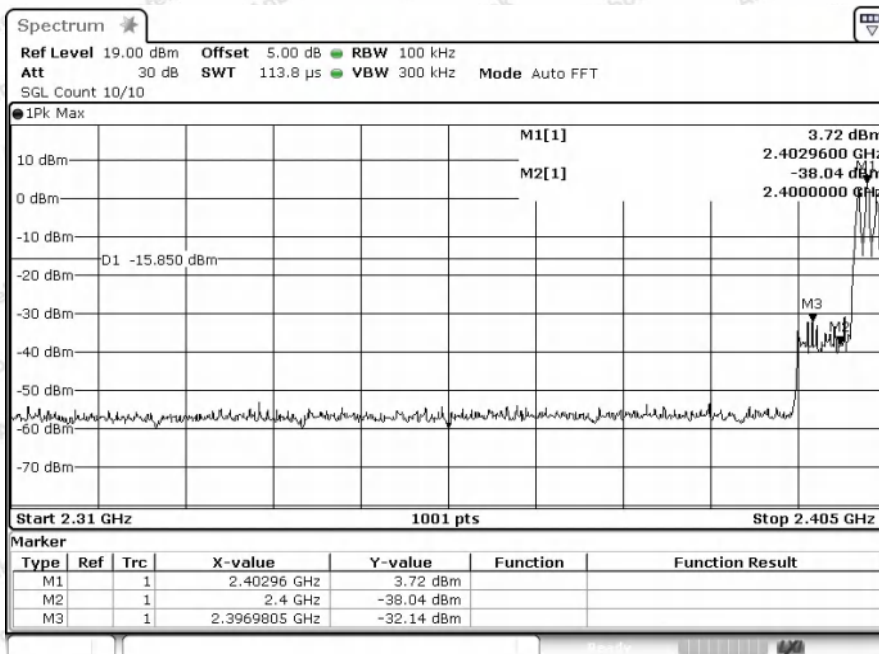


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping

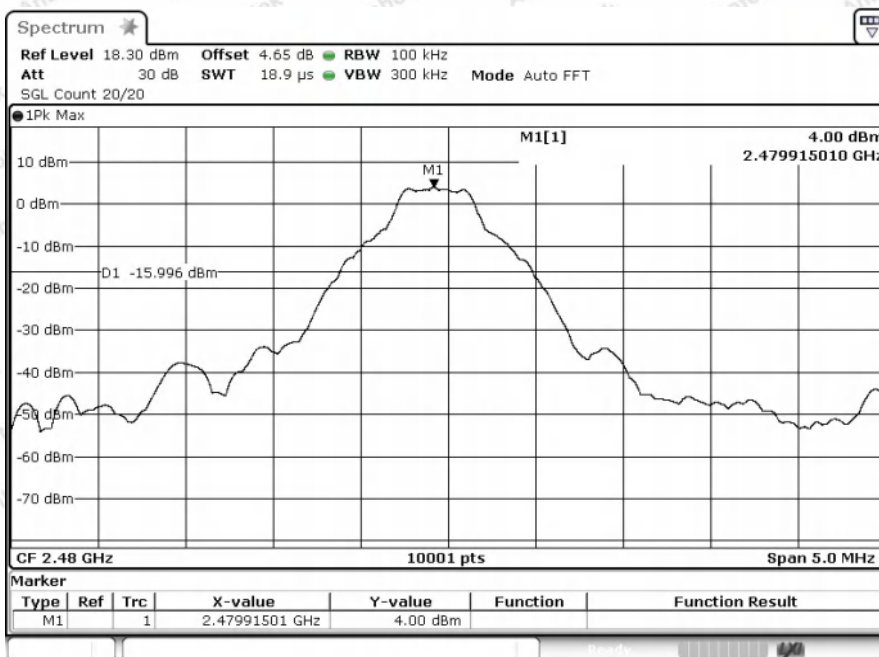


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping



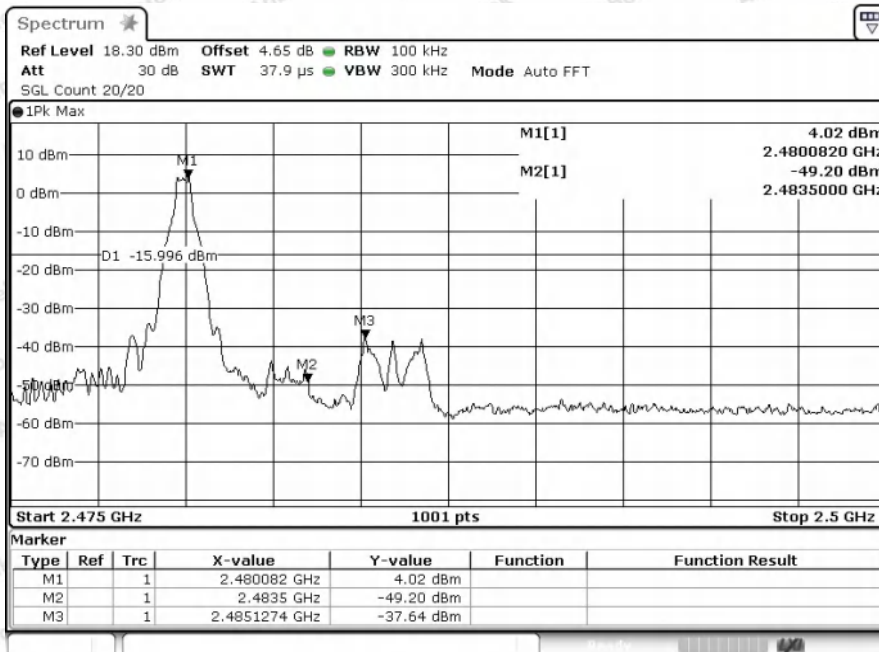


1_Reference_Level_NVNT_ANT1_1-DH5_2480

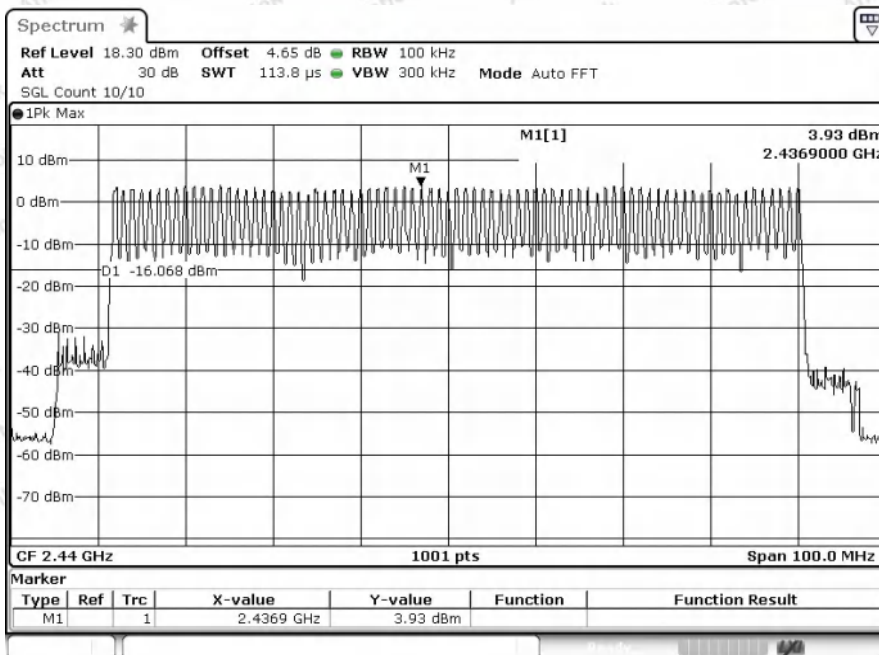


2_Bandedge_NVNT_ANT1_1-DH5_2480



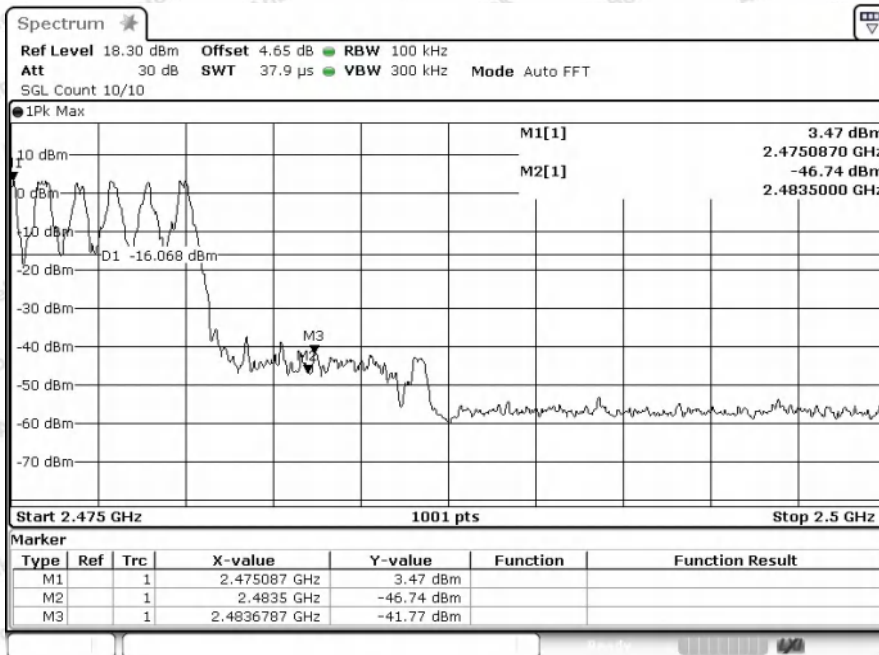


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping

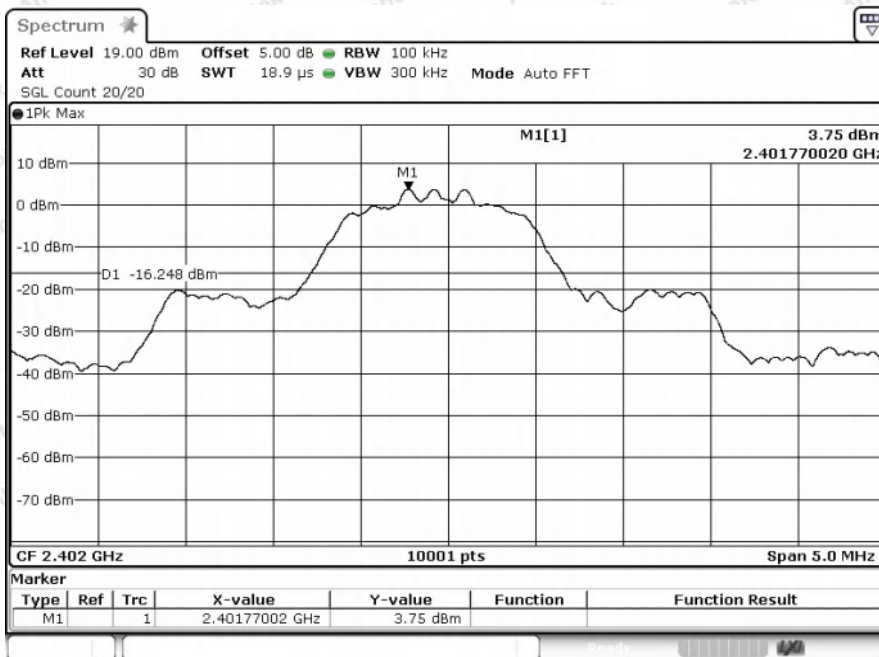


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping





1_Reference_Level_NVNT_ANT1_2-DH5_2402



2_Bandedge_NVNT_ANT1_2-DH5_2402

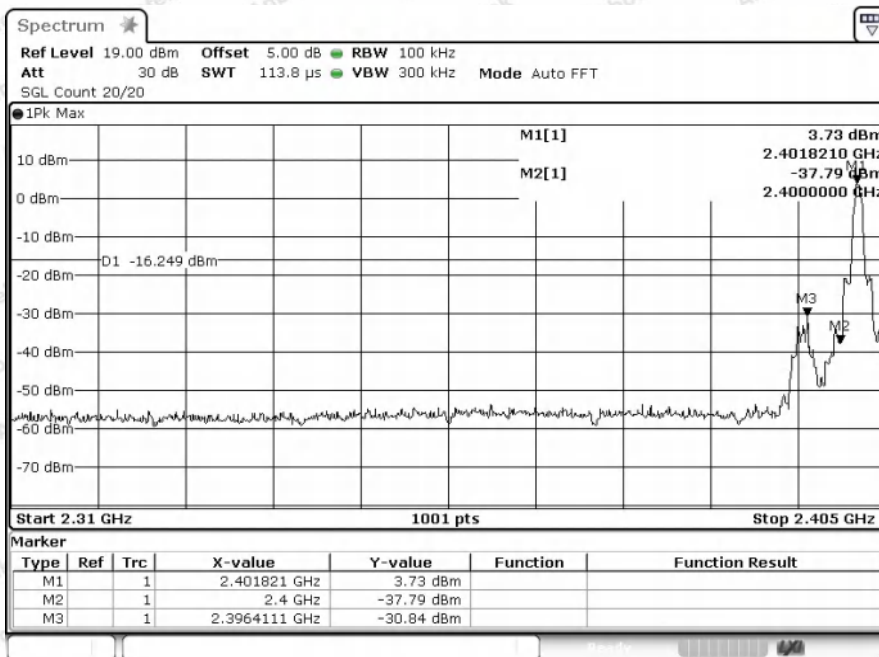
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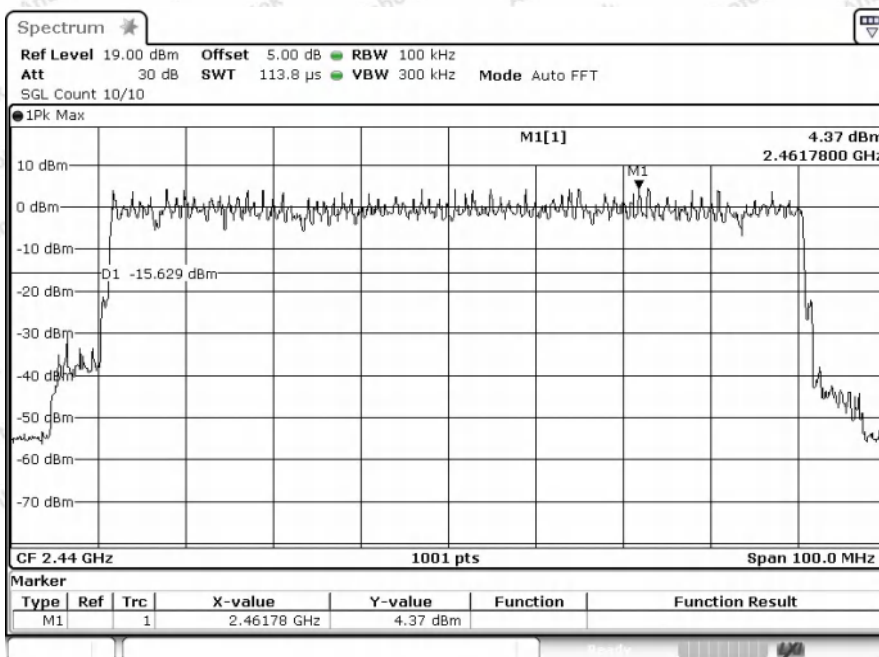


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1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping

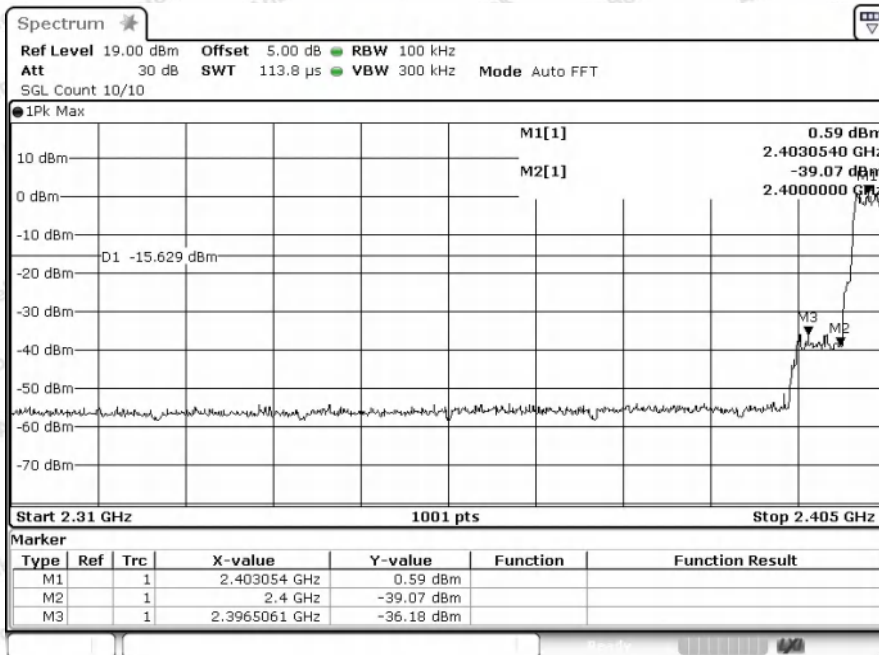
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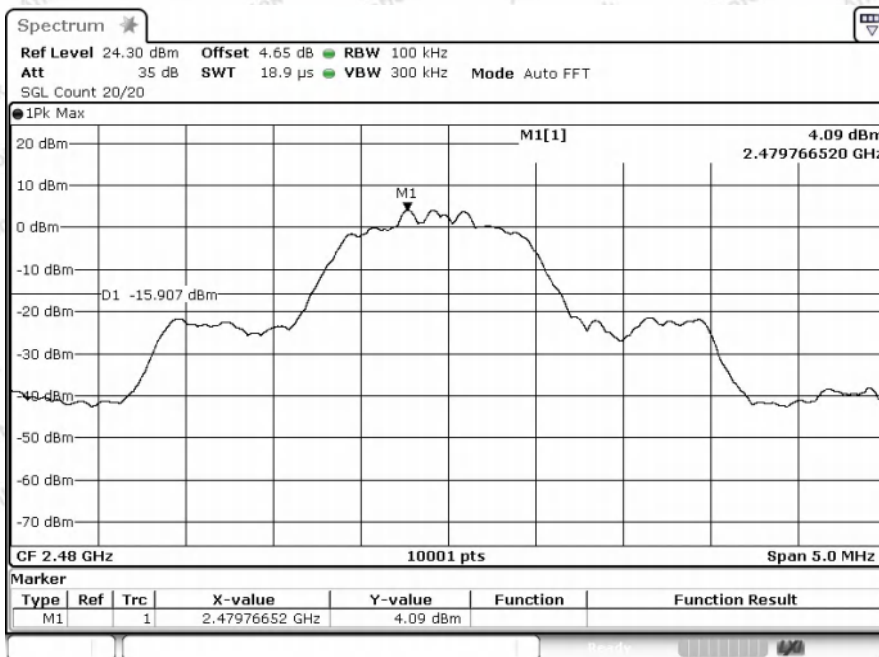


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1_Reference_Level_NVNT_ANT1_2-DH5_2480



2_Bandedge_NVNT_ANT1_2-DH5_2480

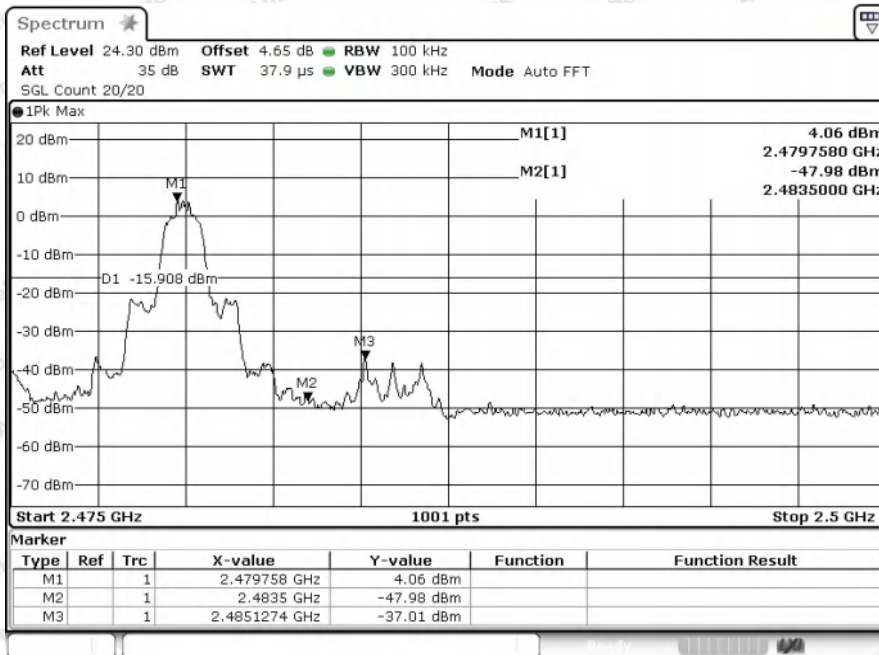
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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

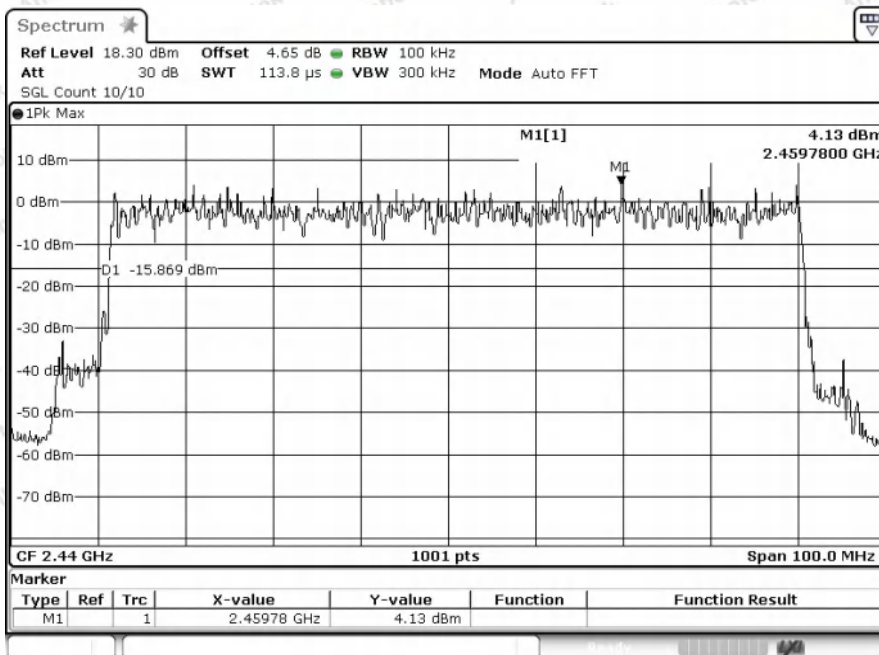


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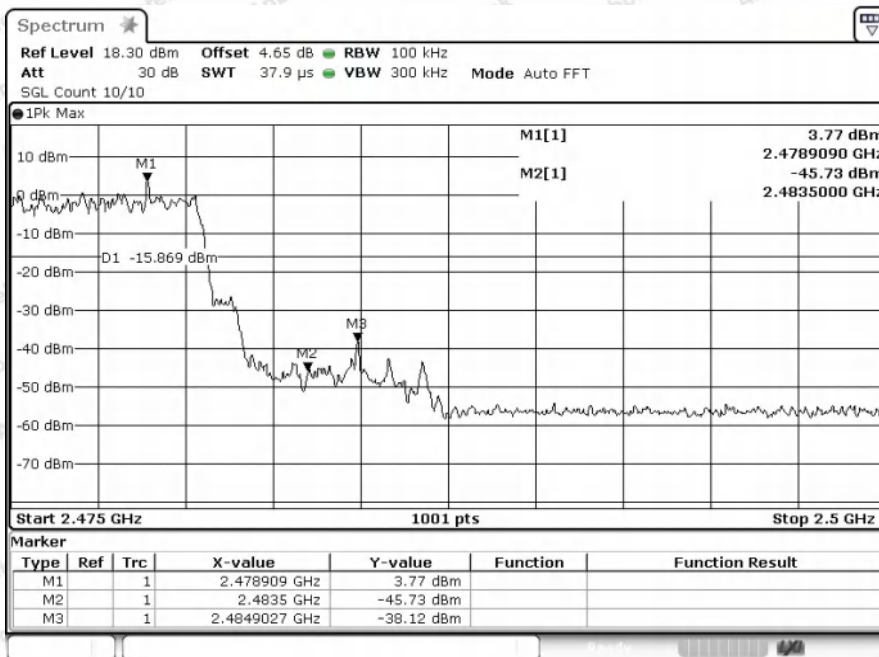


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping

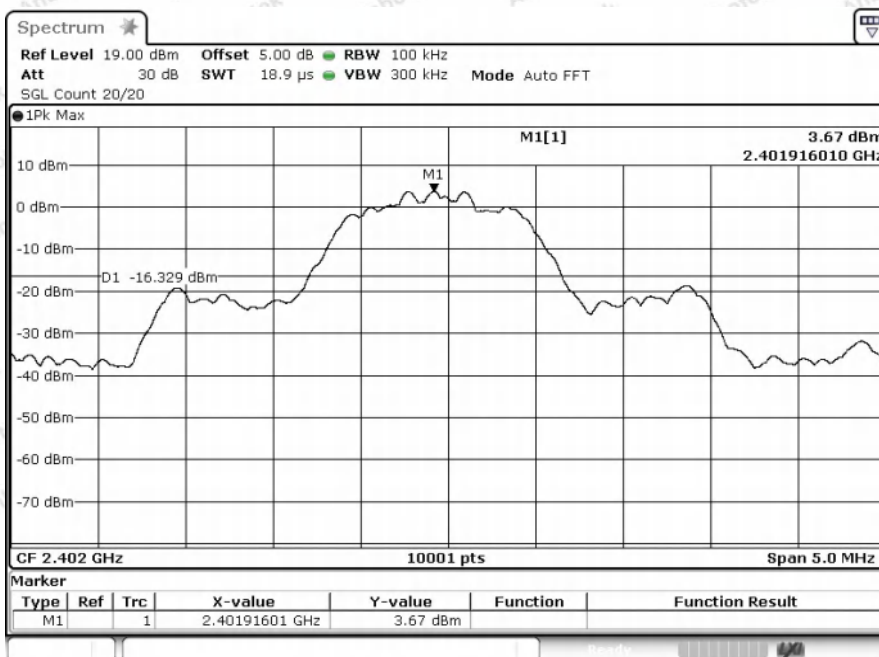


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping



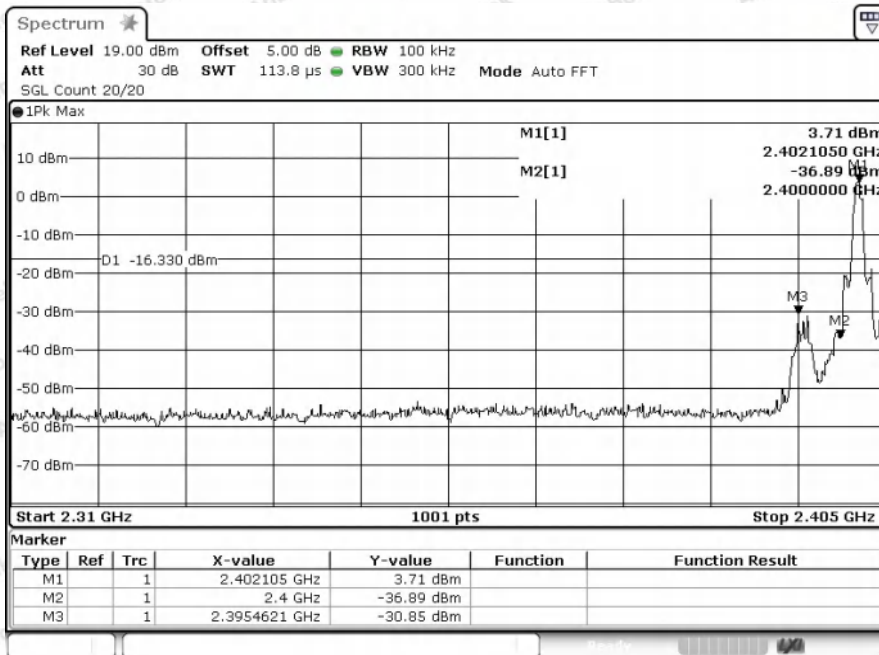


1_Reference_Level_NVNT_ANT1_3-DH5_2402

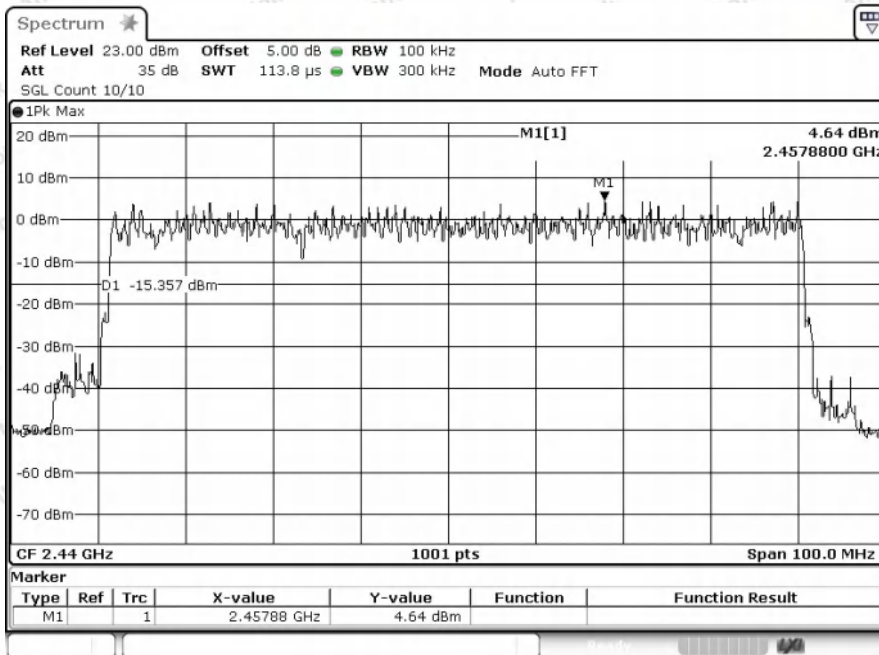


2_Bandedge_NVNT_ANT1_3-DH5_2402





1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping

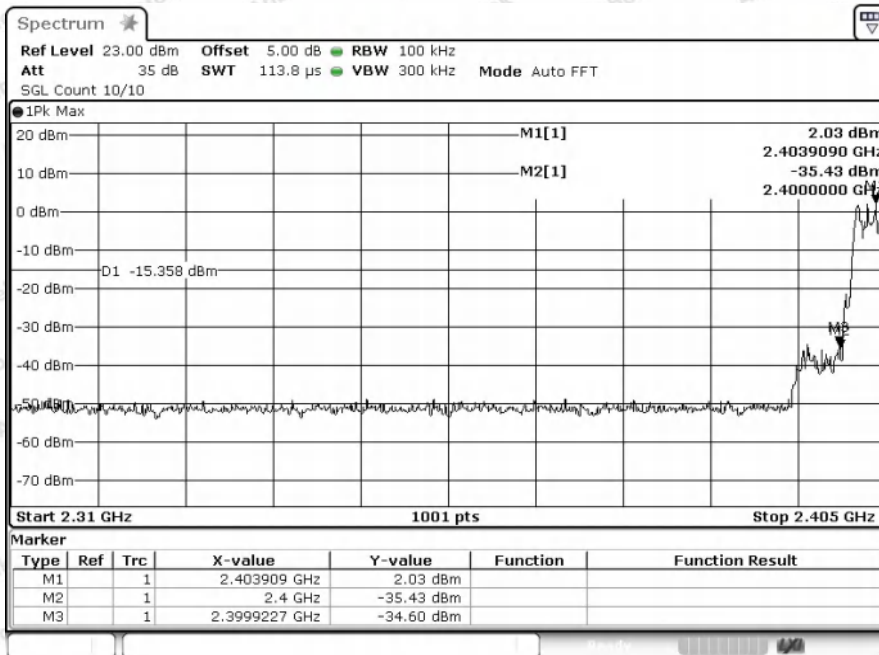
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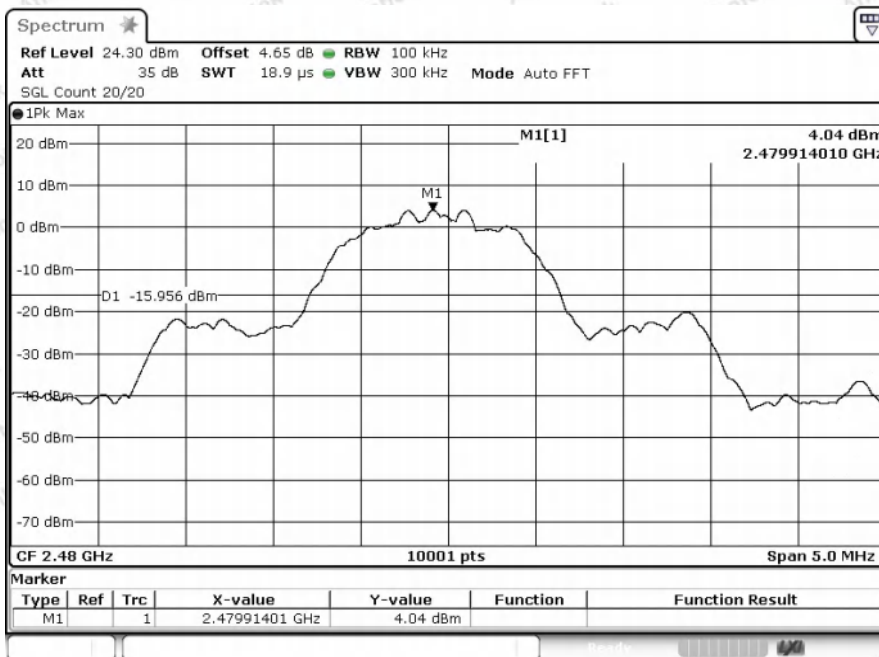


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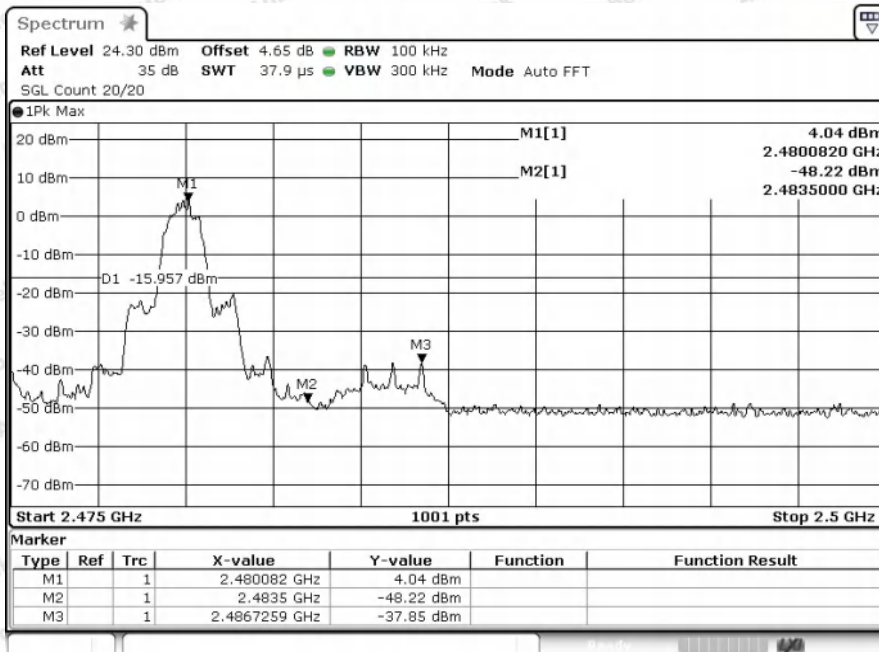


1_Reference_Level_NVNT_ANT1_3-DH5_2480

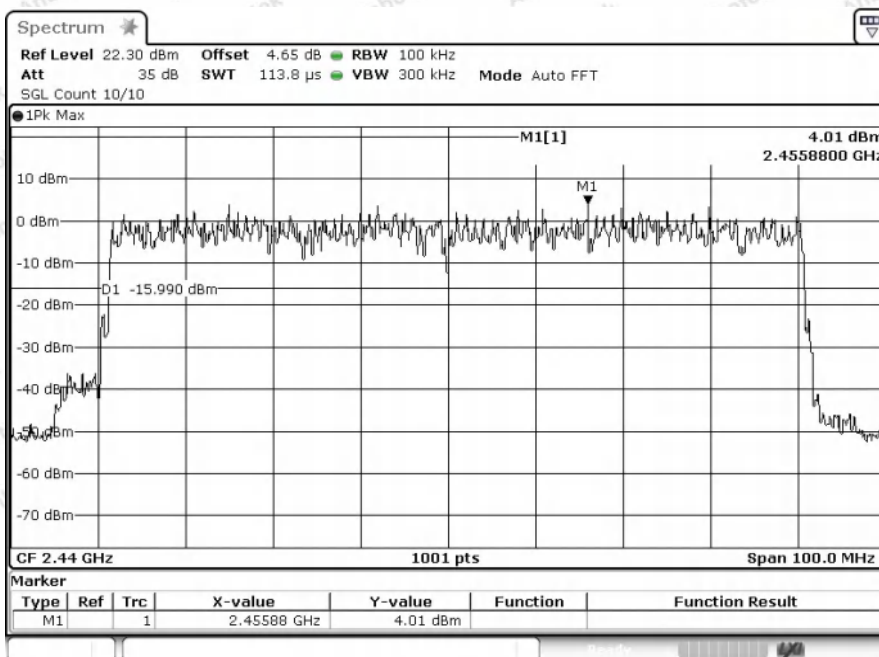


2_Bandedge_NVNT_ANT1_3-DH5_2480



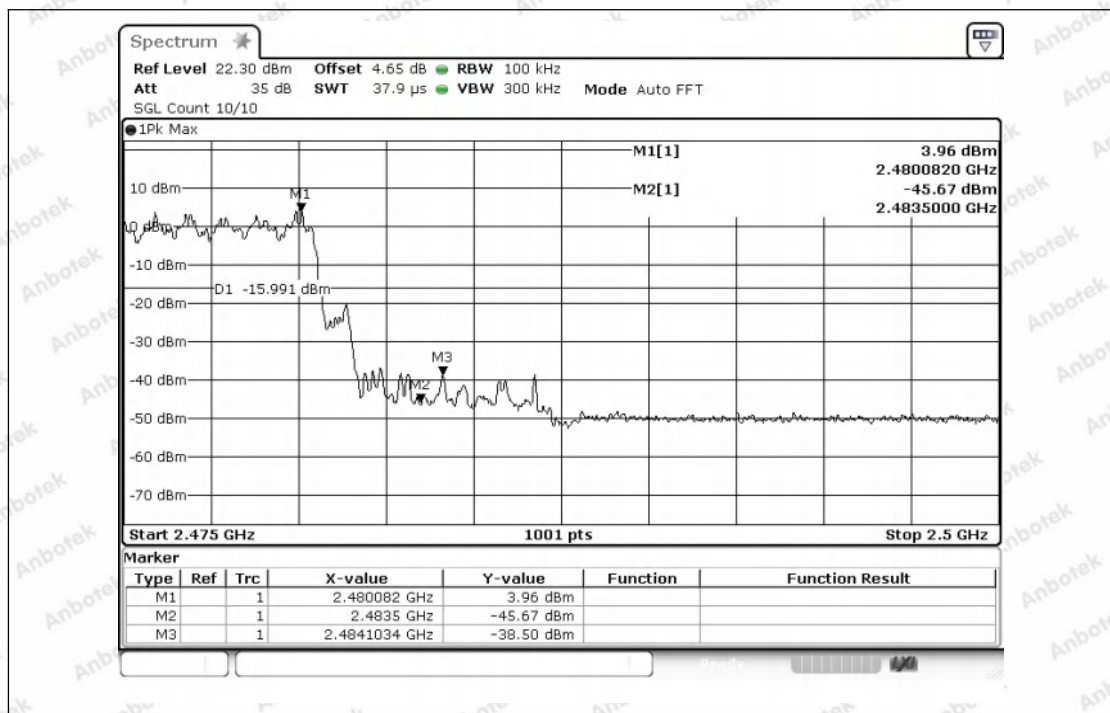


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



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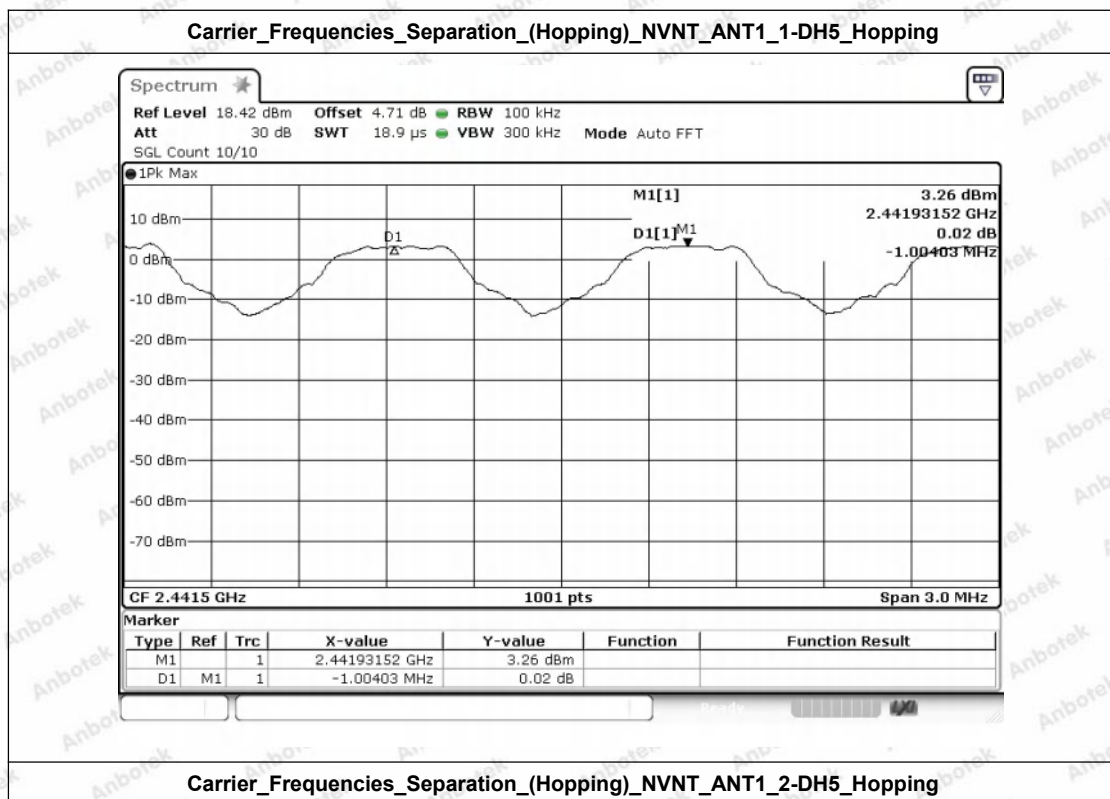


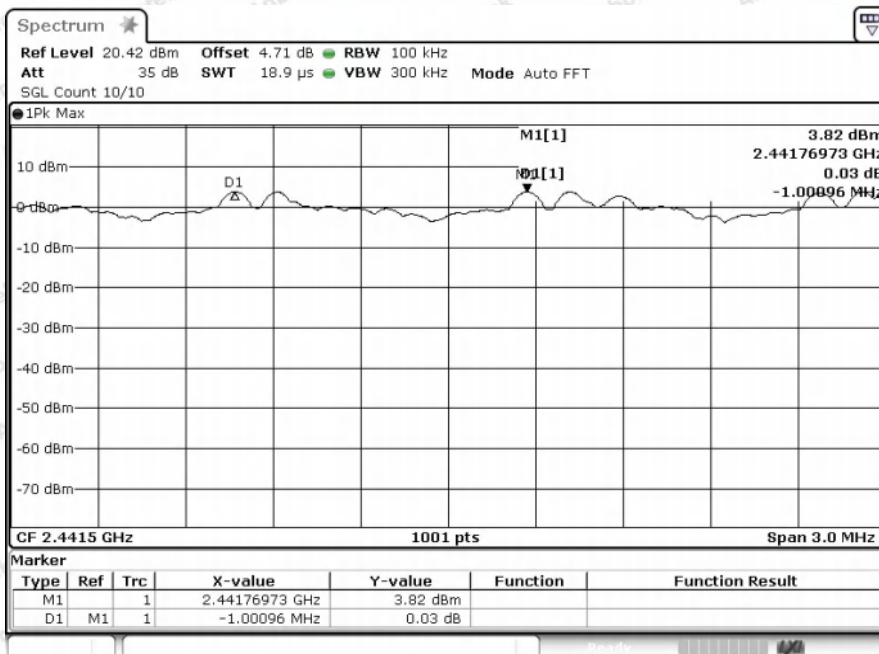
Appendix F: Carrier Frequencies Separation (Hopping)

Test Result

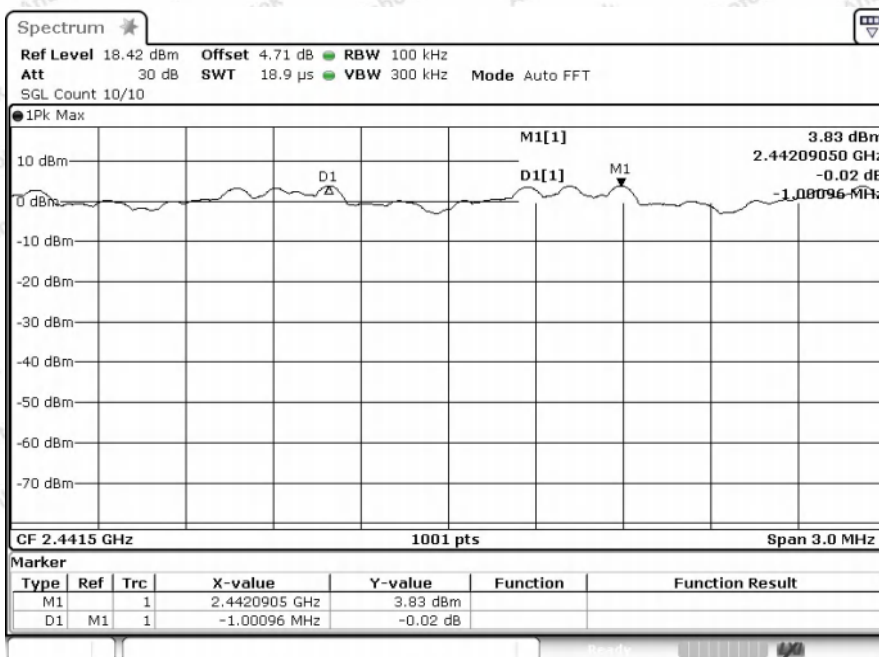
Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2441.00	2440.927	2441.932	1.00	0.944	Pass
NVNT	ANT1	2-DH5	2441.00	2440.769	2441.770	1.00	0.895	Pass
NVNT	ANT1	3-DH5	2441.00	2441.090	2442.090	1.00	0.887	Pass

Test Graphs





Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping



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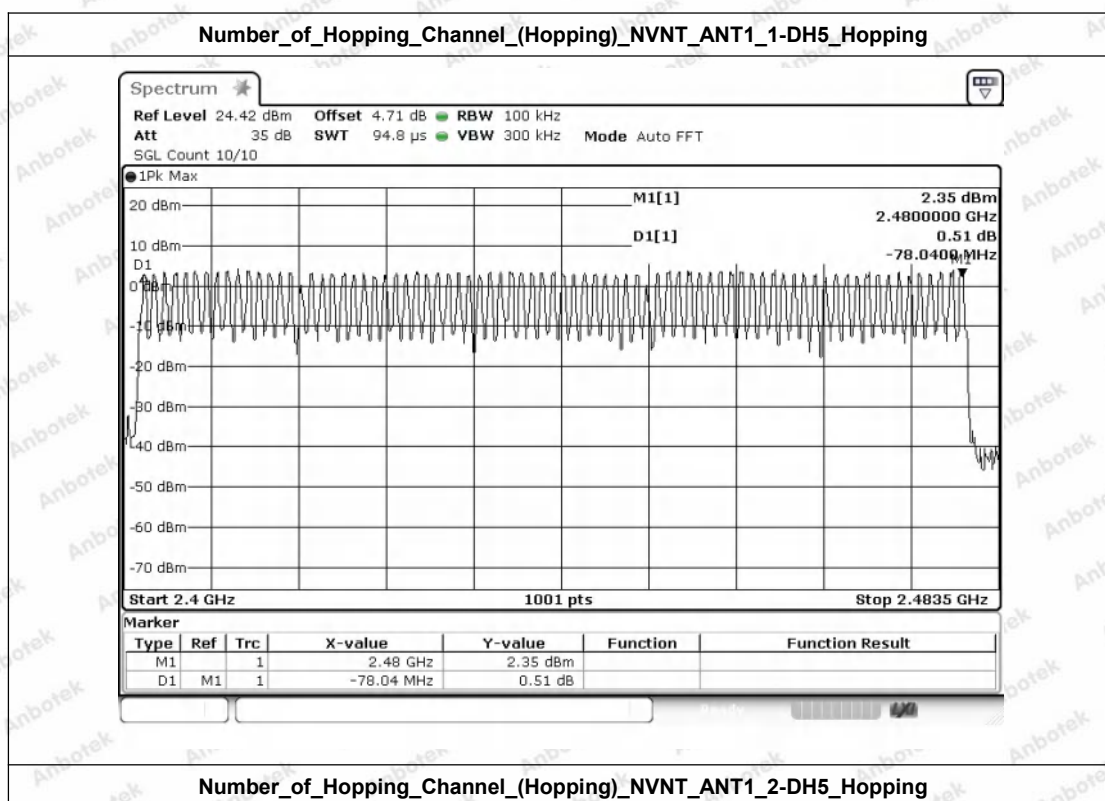


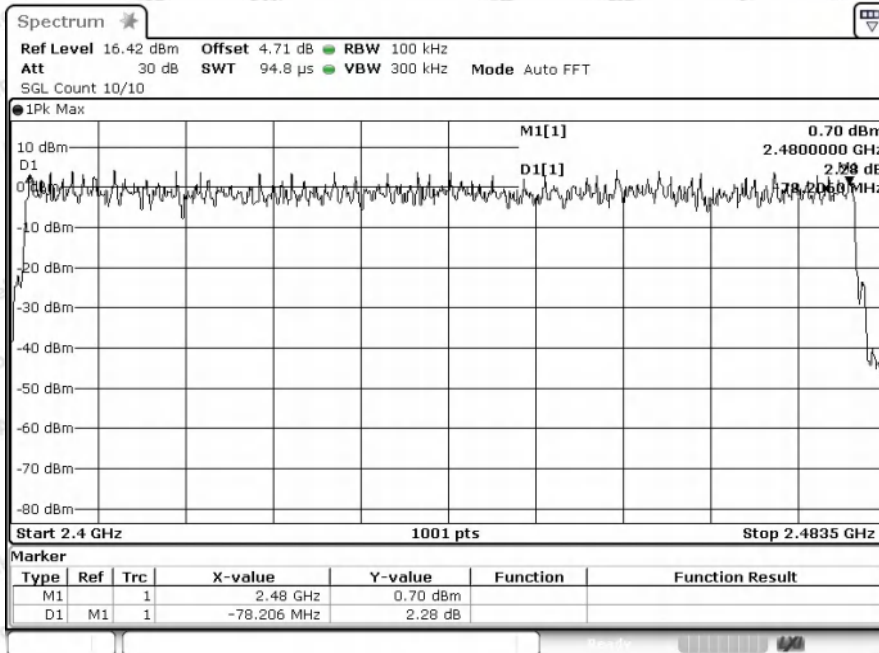
Appendix G: Number of Hopping Channel (Hopping)

Test Result

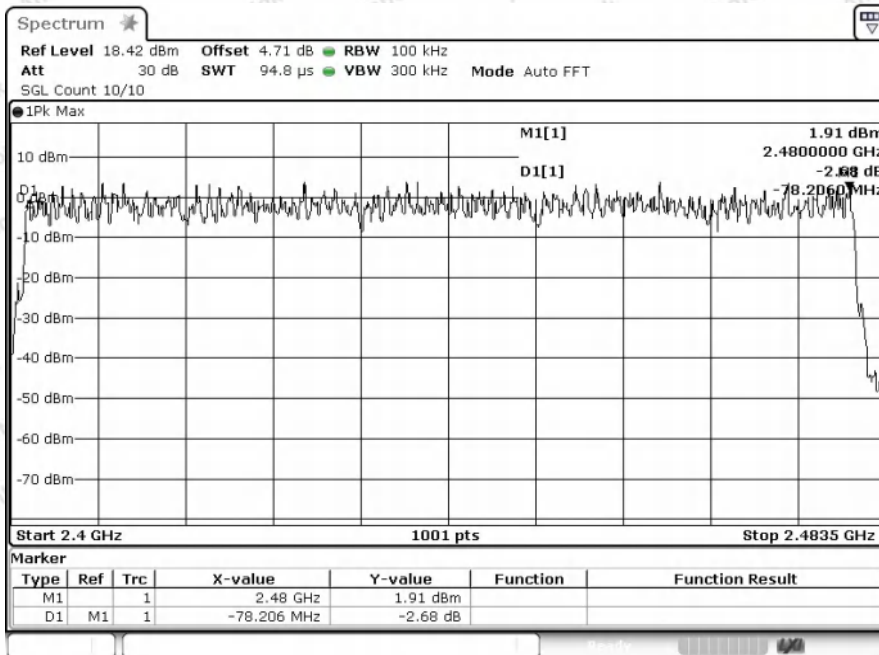
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass

Test Graphs





Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH5_Hopping



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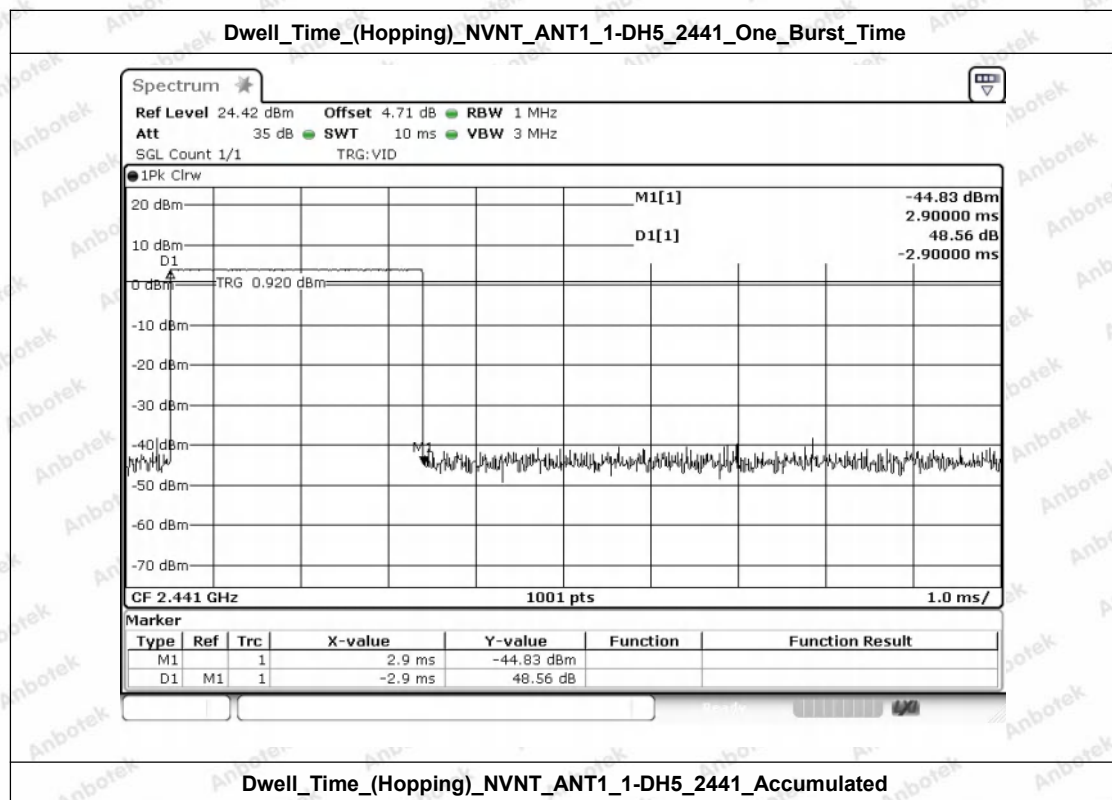


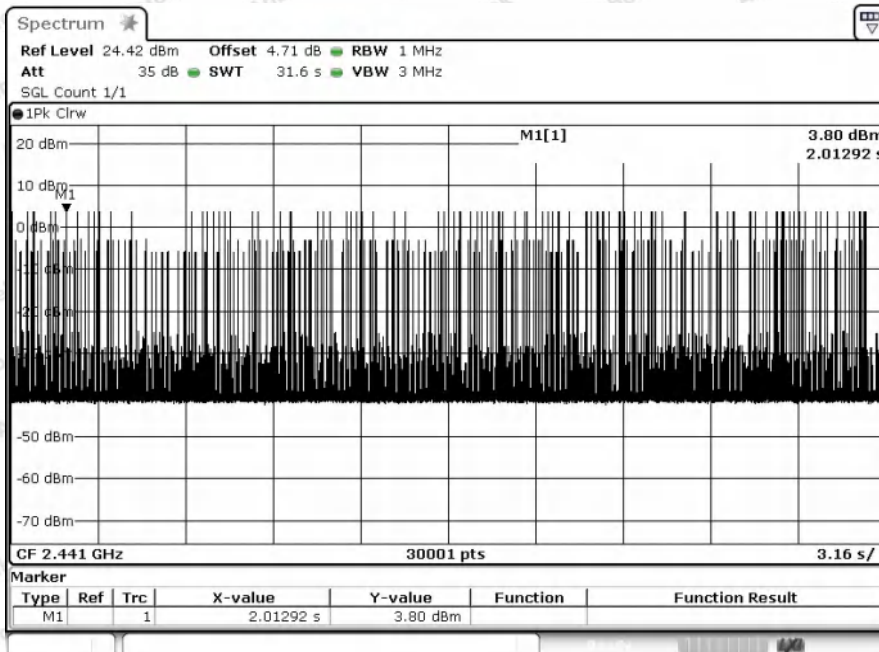
Appendix H: Dwell Time (Hopping)

Test Result

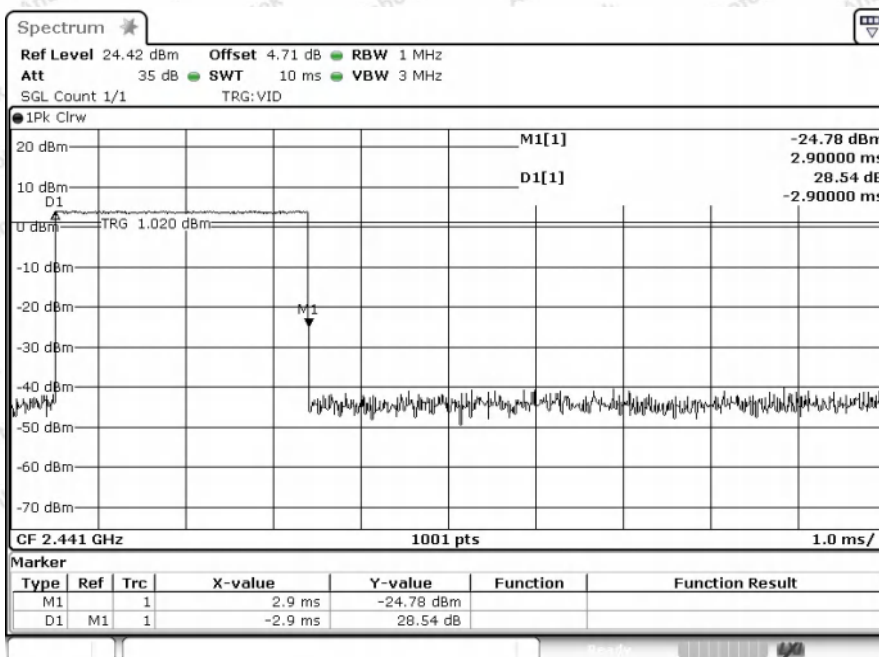
Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.900	110.00	319.000	0.40	Pass
NVNT	ANT1	2-DH5	2.900	105.00	304.500	0.40	Pass
NVNT	ANT1	3-DH5	2.910	110.00	320.100	0.40	Pass
NVNT	ANT1	1-DH1	0.390	320.00	124.800	0.40	Pass
NVNT	ANT1	1-DH3	1.650	159.00	262.350	0.40	Pass
NVNT	ANT1	2-DH1	0.410	320.00	131.200	0.40	Pass
NVNT	ANT1	2-DH3	1.660	151.00	250.660	0.40	Pass
NVNT	ANT1	3-DH1	0.410	320.00	131.200	0.40	Pass
NVNT	ANT1	3-DH3	1.660	157.00	260.620	0.40	Pass

Test Graphs



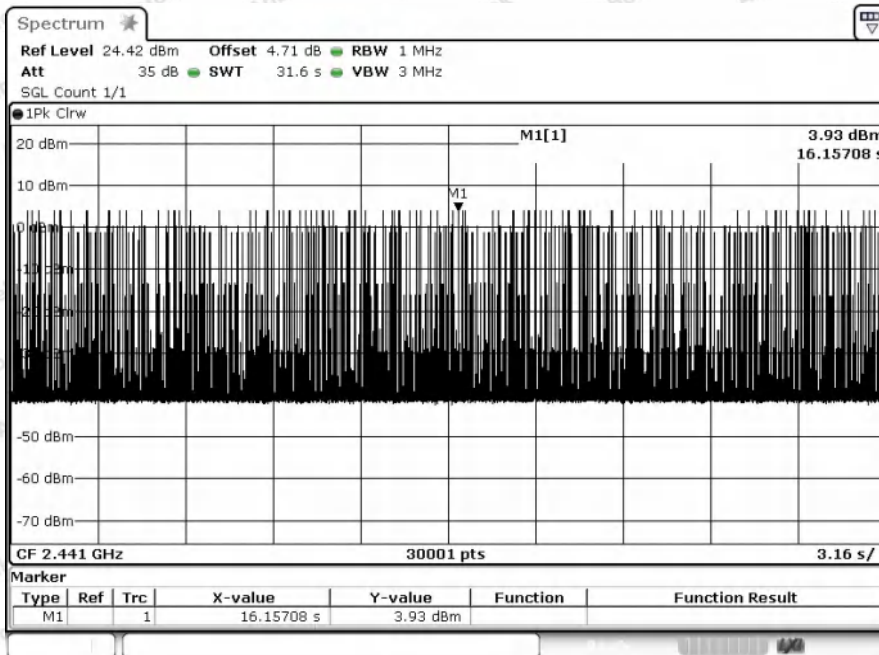


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_One_Burst_Time

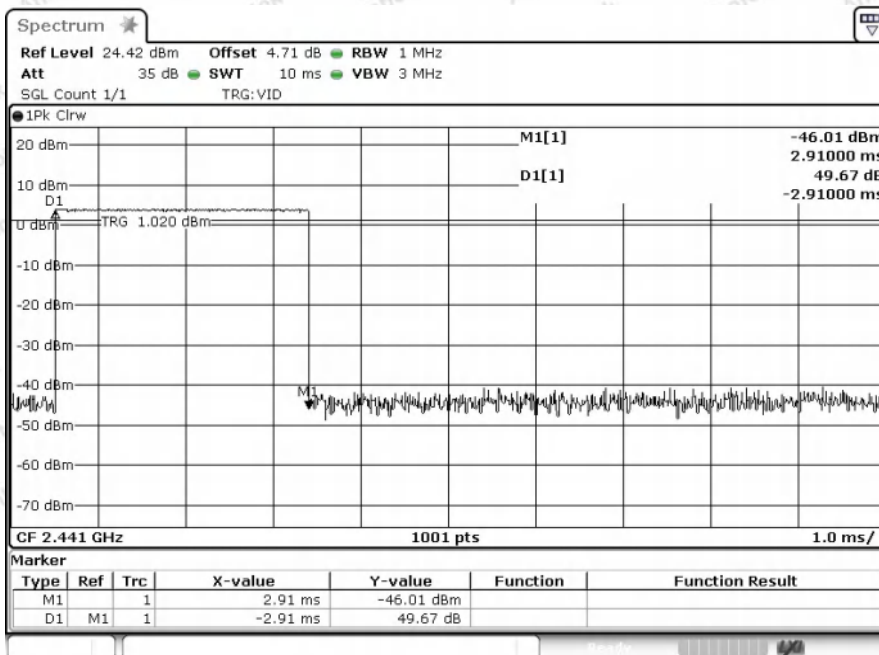


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_Accumulated



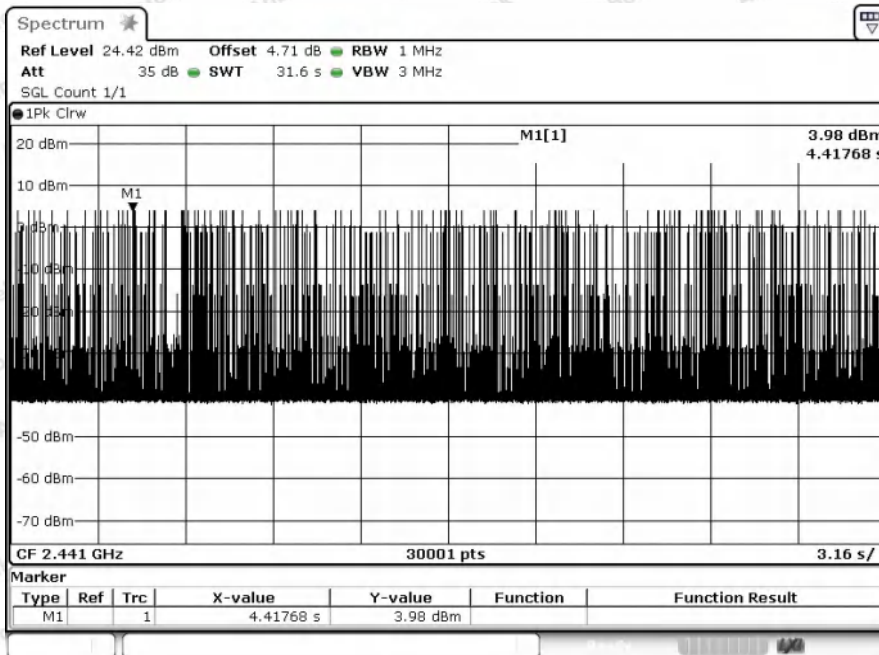


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_One_Burst_Time

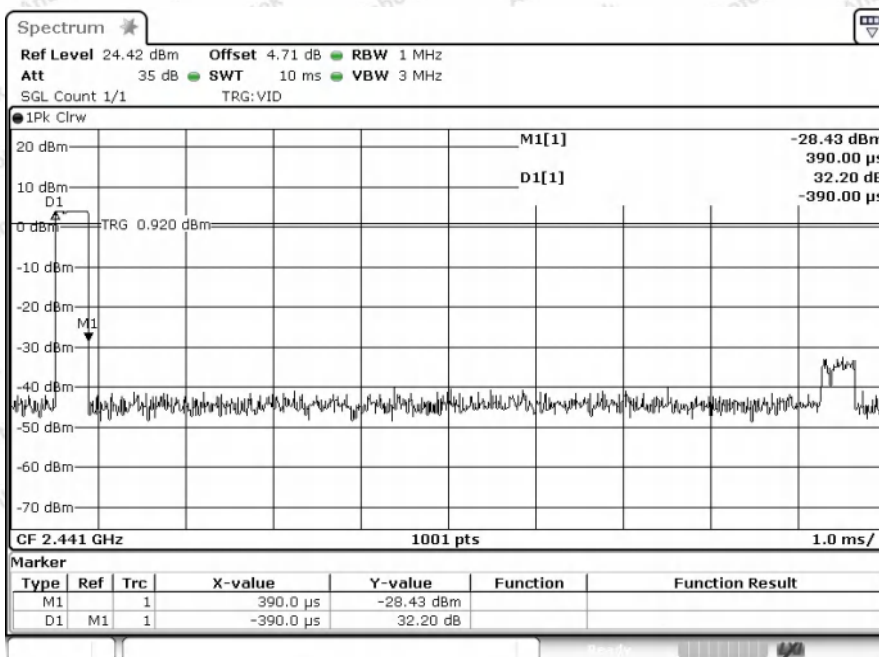


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_Accumulated



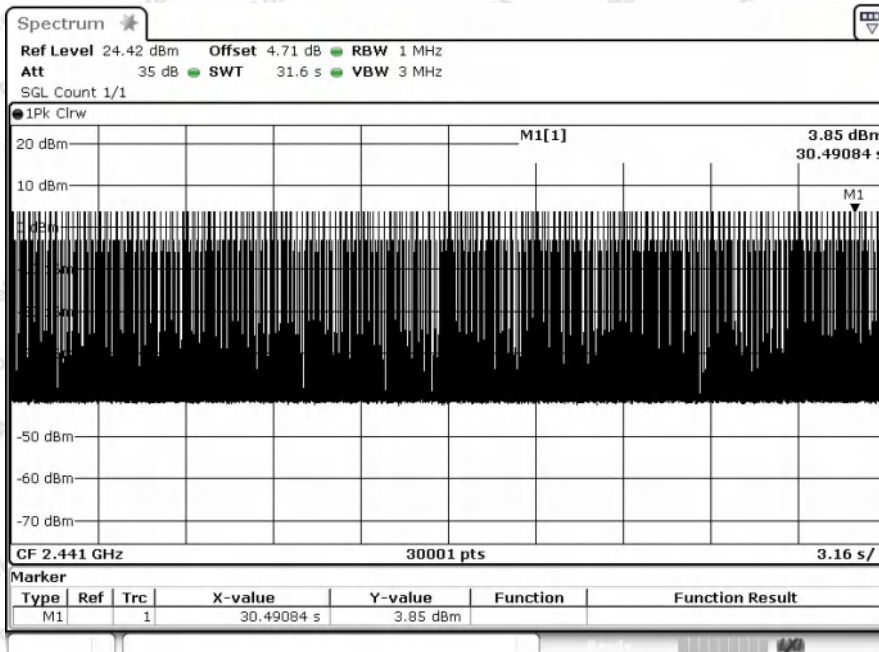


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_One_Burst_Time

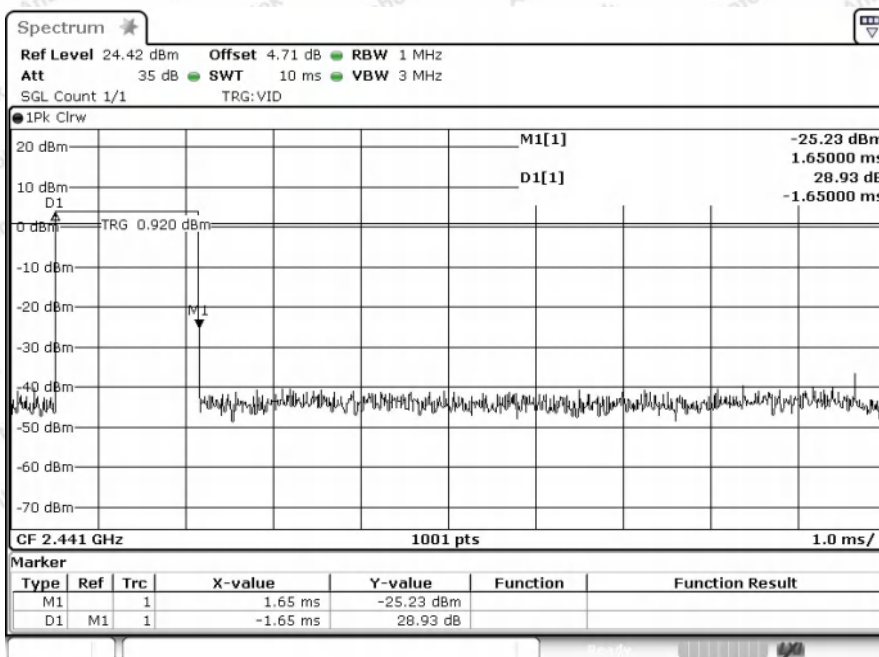


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_Accumulated



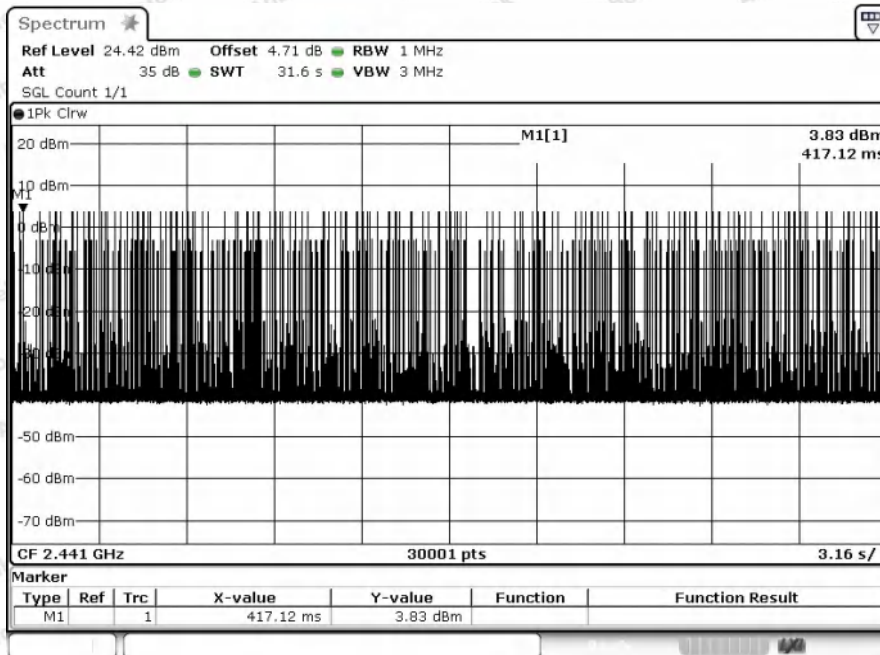


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_One_Burst_Time

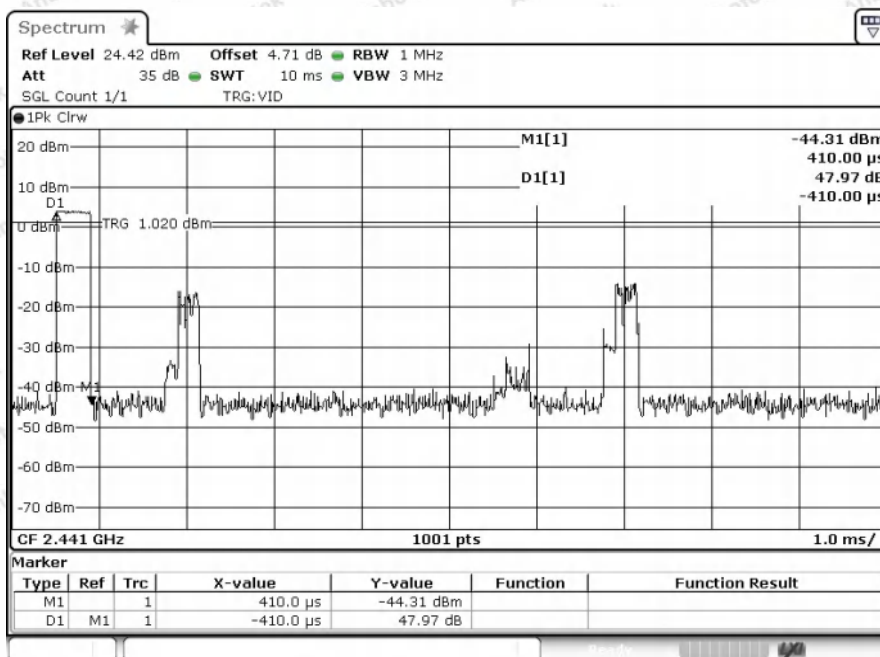


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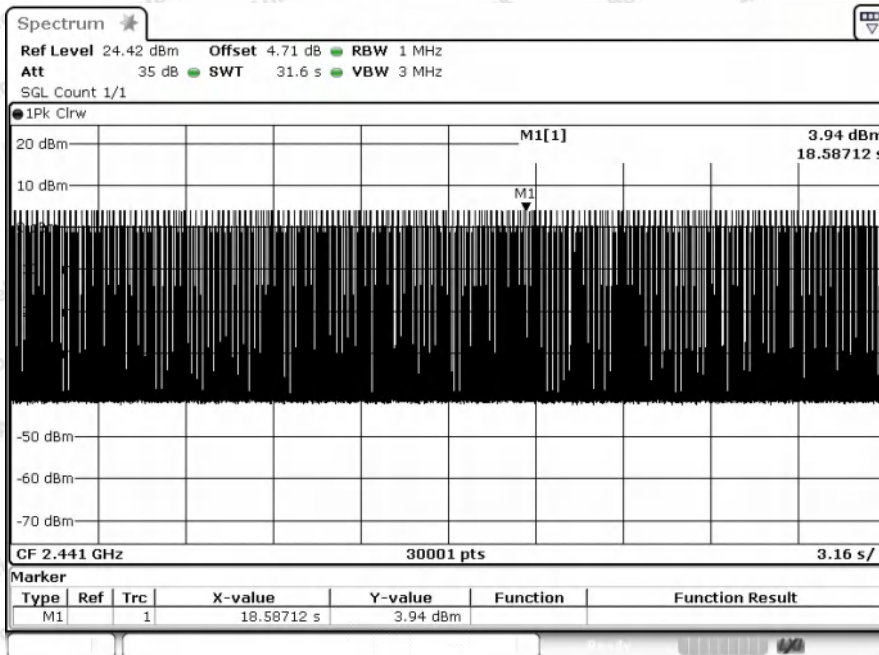


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_One_Burst_Time

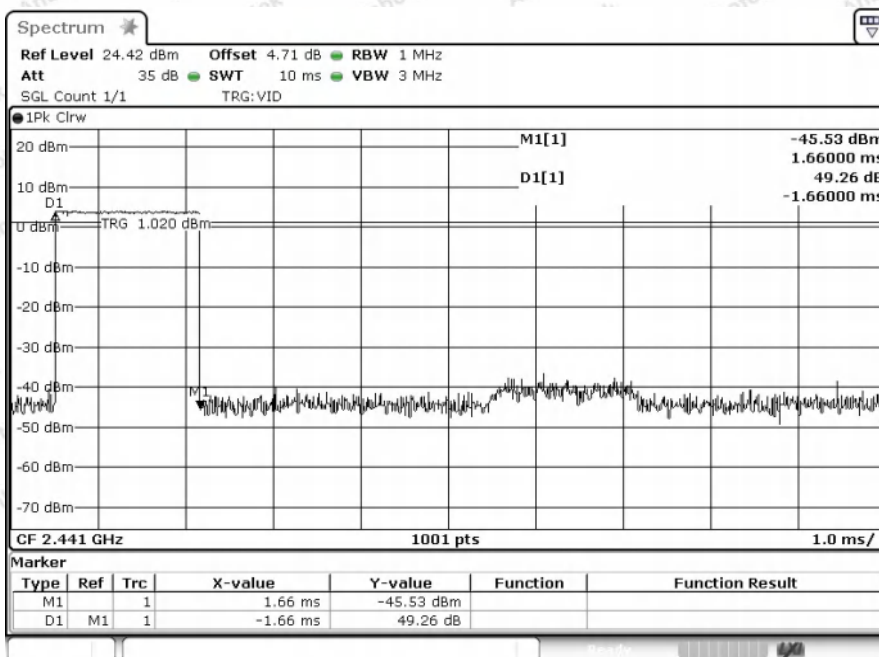


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_Accumulated



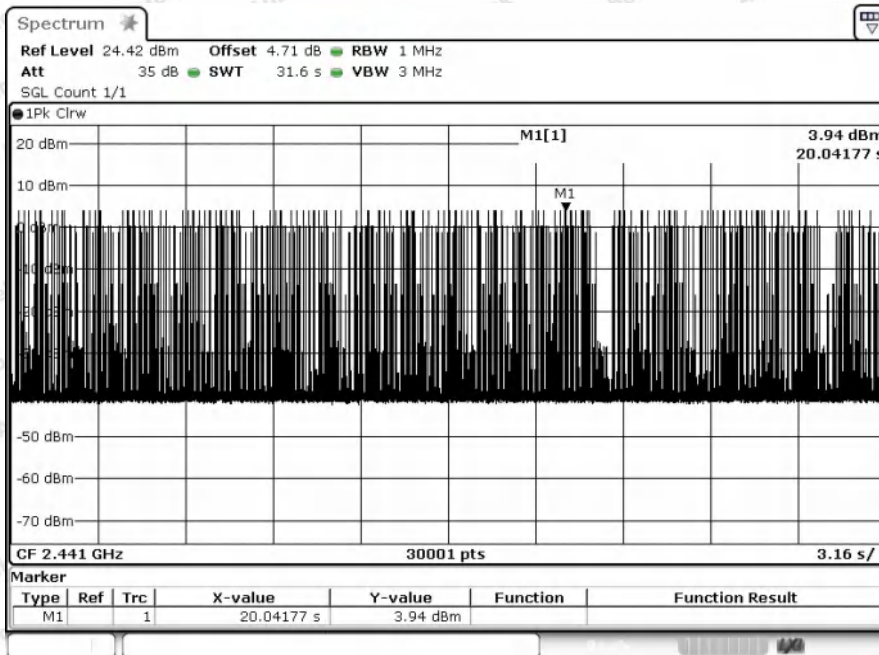


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_One_Burst_Time

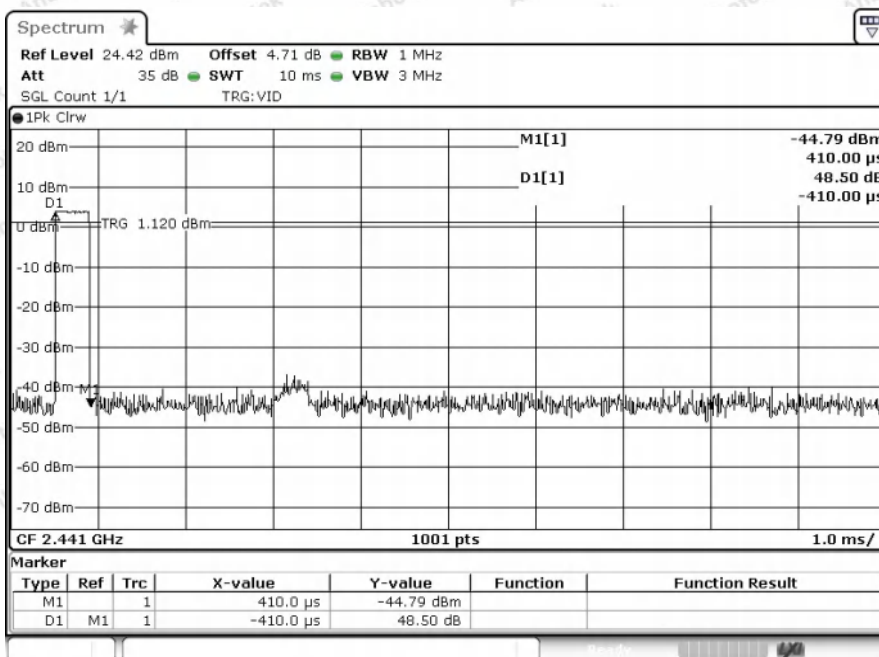


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_Accumulated



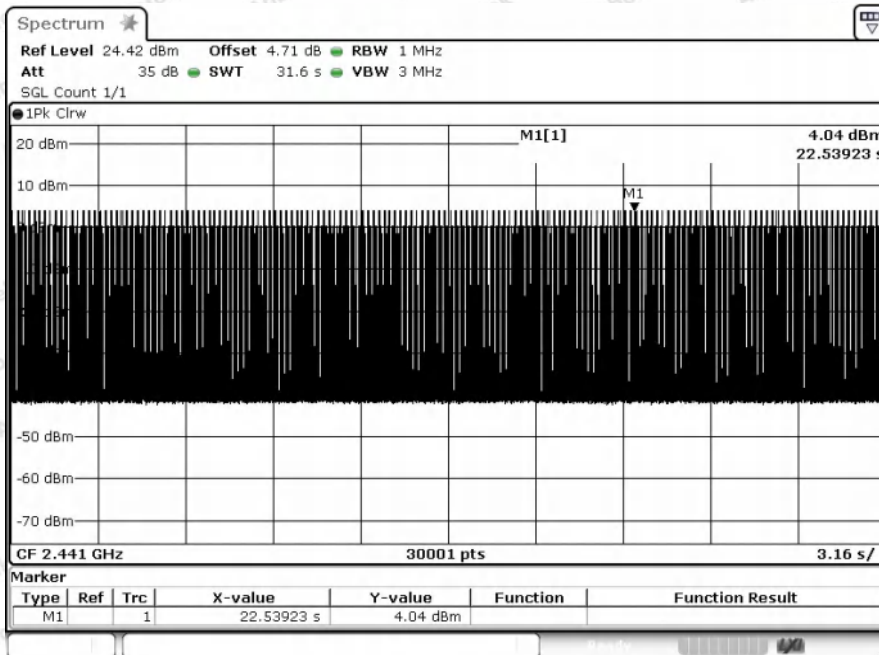


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_One_Burst_Time

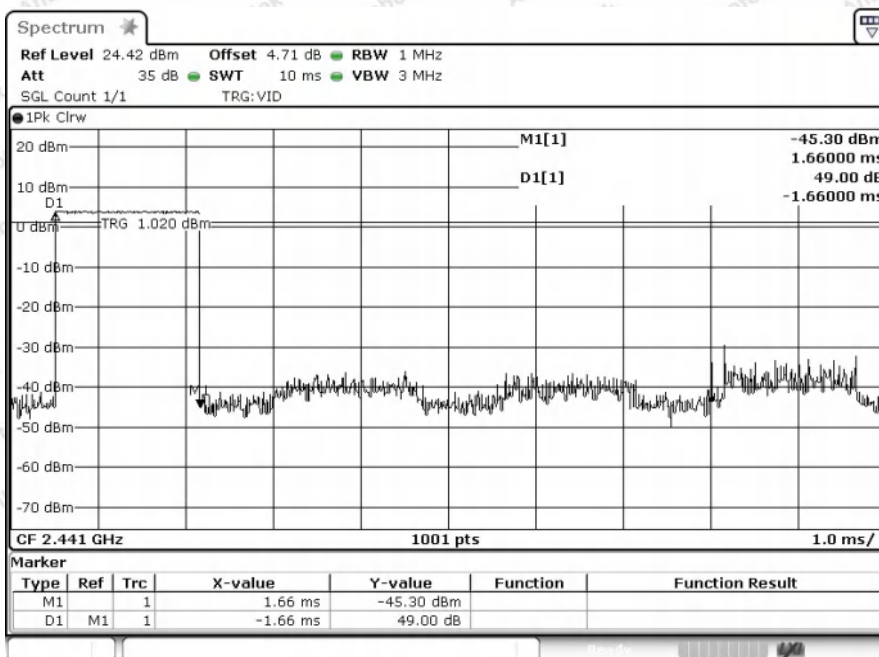


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_Accumulated



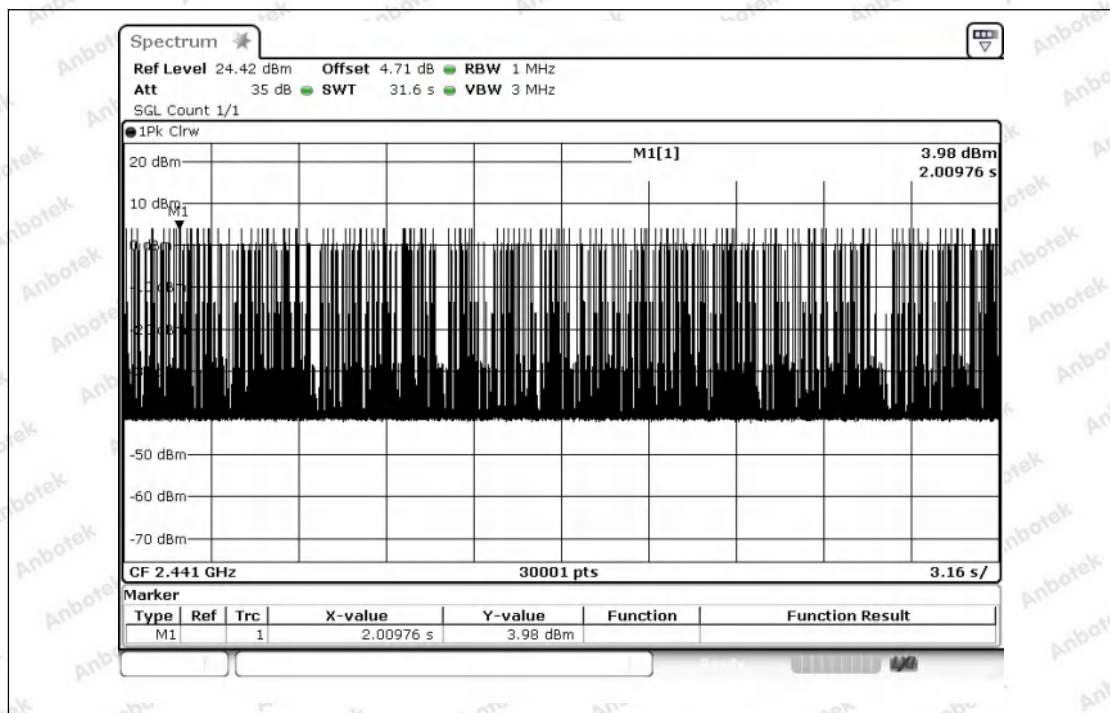


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_Accumulated





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