



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Workwell Facial Recognition Cloud Tablet Time Clock

Test Model: FE2000

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 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.066	>=0.5	Pass
NVNT	b	2437	Ant1	7.591	>=0.5	Pass
NVNT	b	2462	Ant1	8.032	>=0.5	Pass
NVNT	g	2412	Ant1	14.813	>=0.5	Pass
NVNT	g	2437	Ant1	16.351	>=0.5	Pass
NVNT	g	2462	Ant1	11.998	>=0.5	Pass
NVNT	n20	2412	Ant1	13.173	>=0.5	Pass
NVNT	n20	2437	Ant1	15.896	>=0.5	Pass
NVNT	n20	2462	Ant1	11.819	>=0.5	Pass
NVNT	n40	2422	Ant1	33.894	>=0.5	Pass
NVNT	n40	2437	Ant1	33.865	>=0.5	Pass
NVNT	n40	2452	Ant1	35.252	>=0.5	Pass

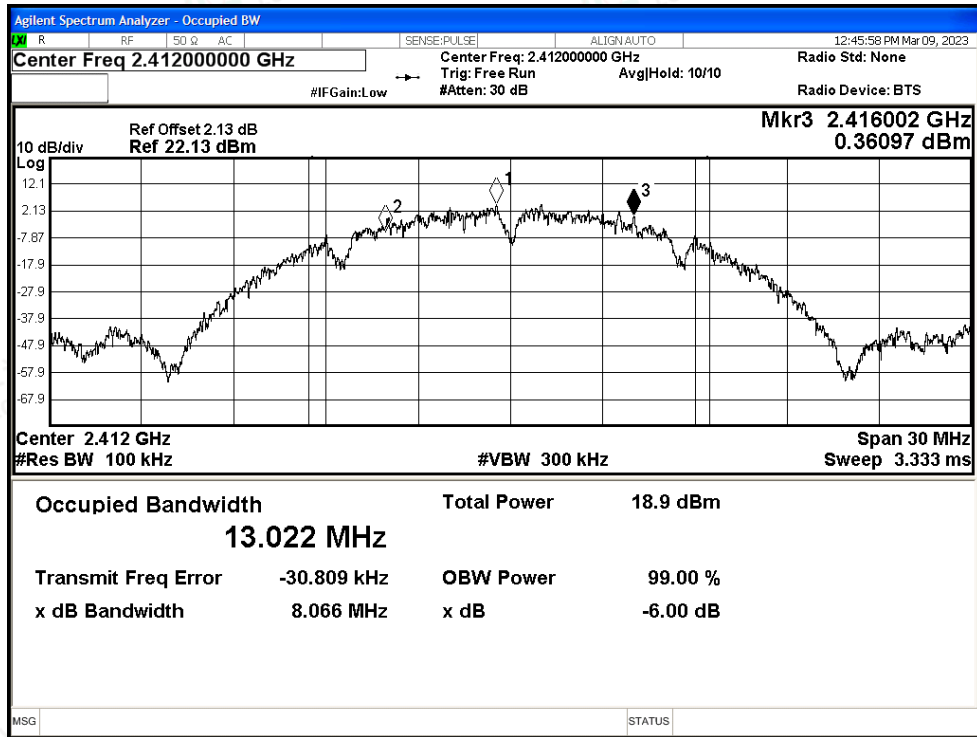


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 Scan code to check authenticity

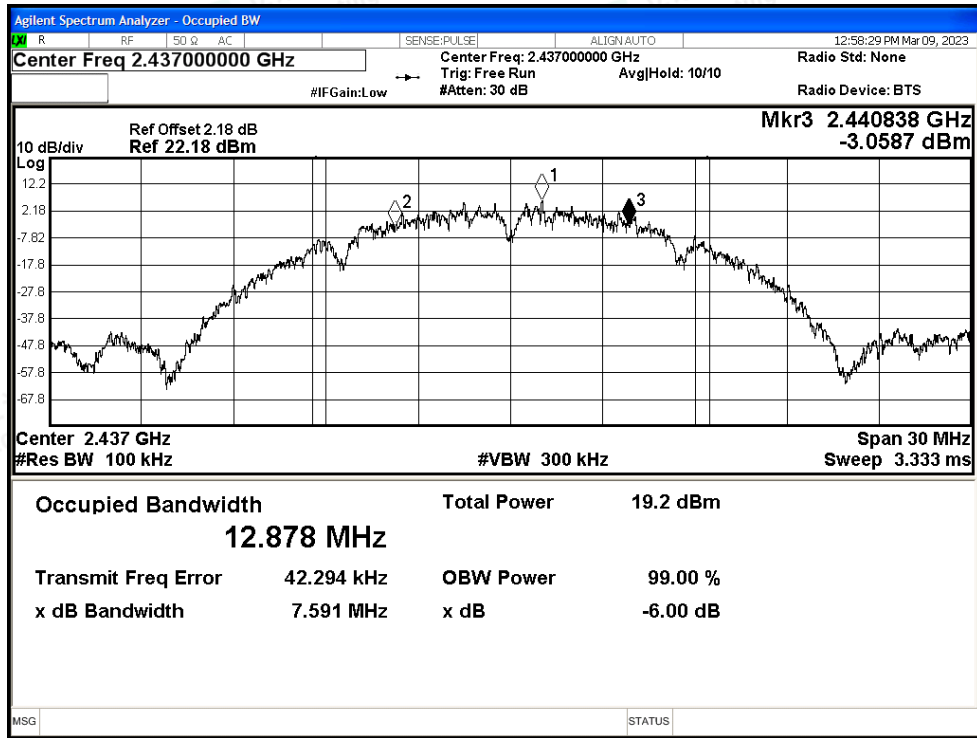


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

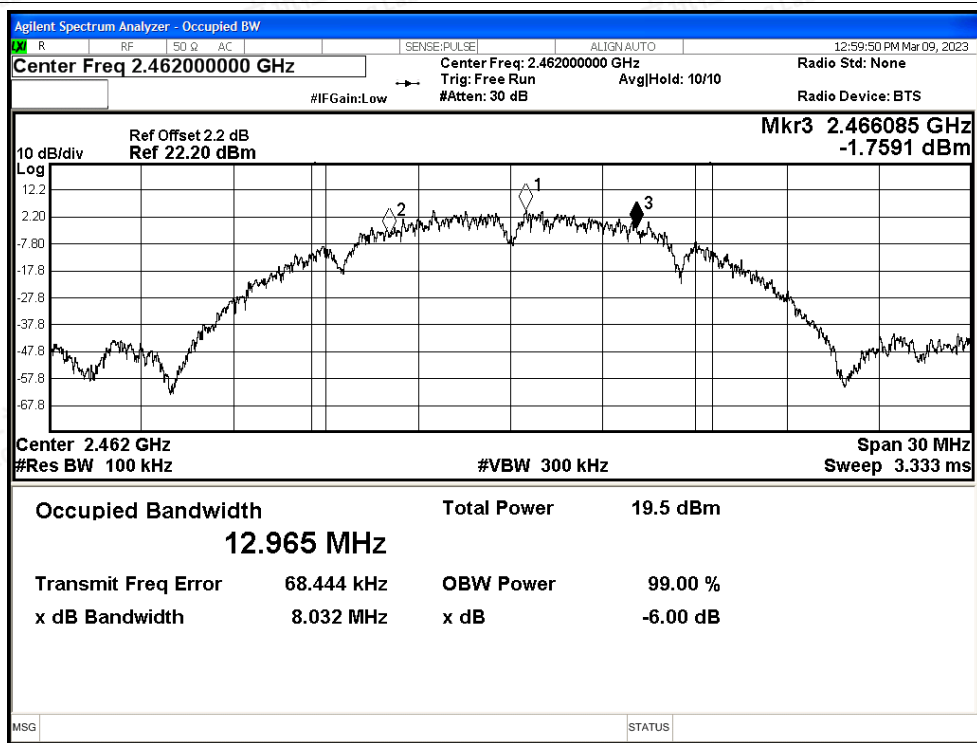


-6dB Bandwidth NVNT b 2437MHz Ant1

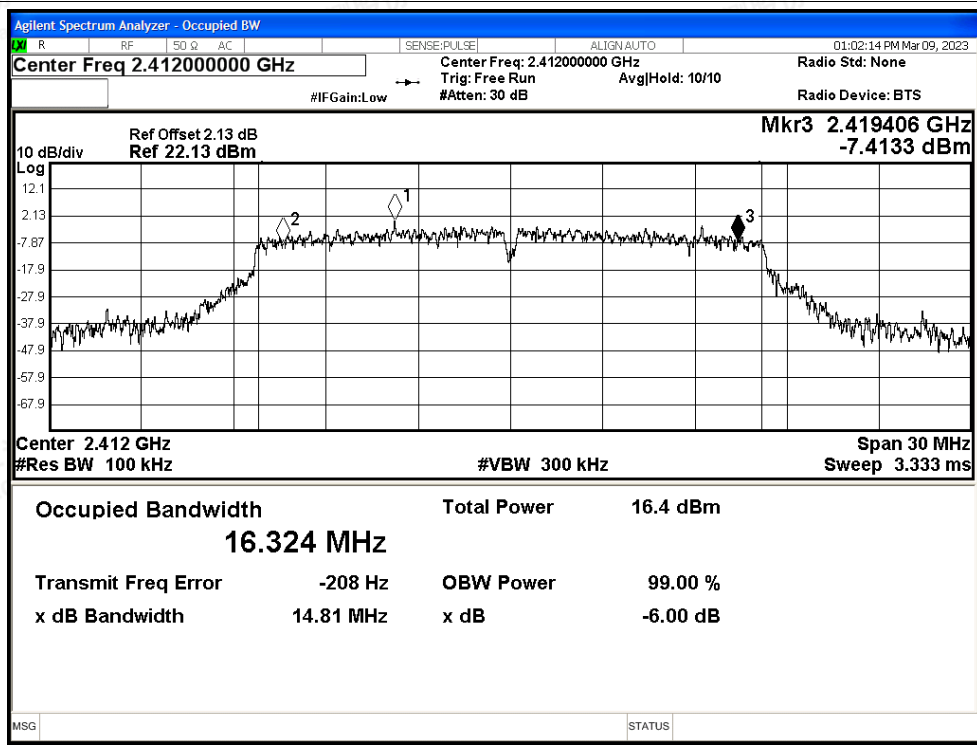




-6dB Bandwidth NVNT b 2462MHz Ant1

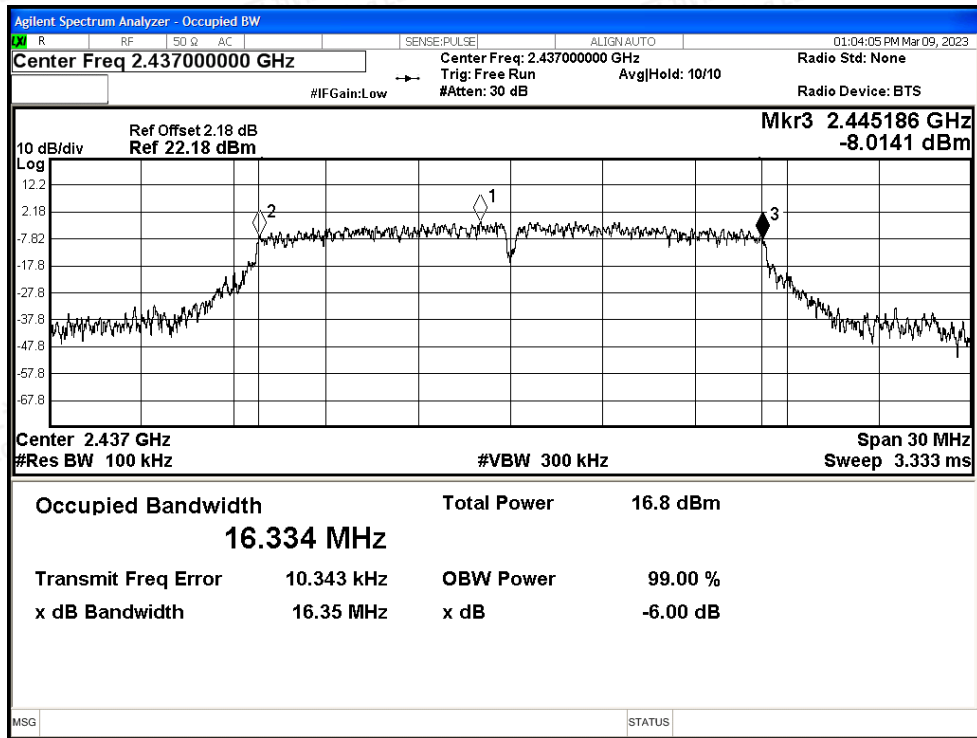


-6dB Bandwidth NVNT g 2412MHz Ant1

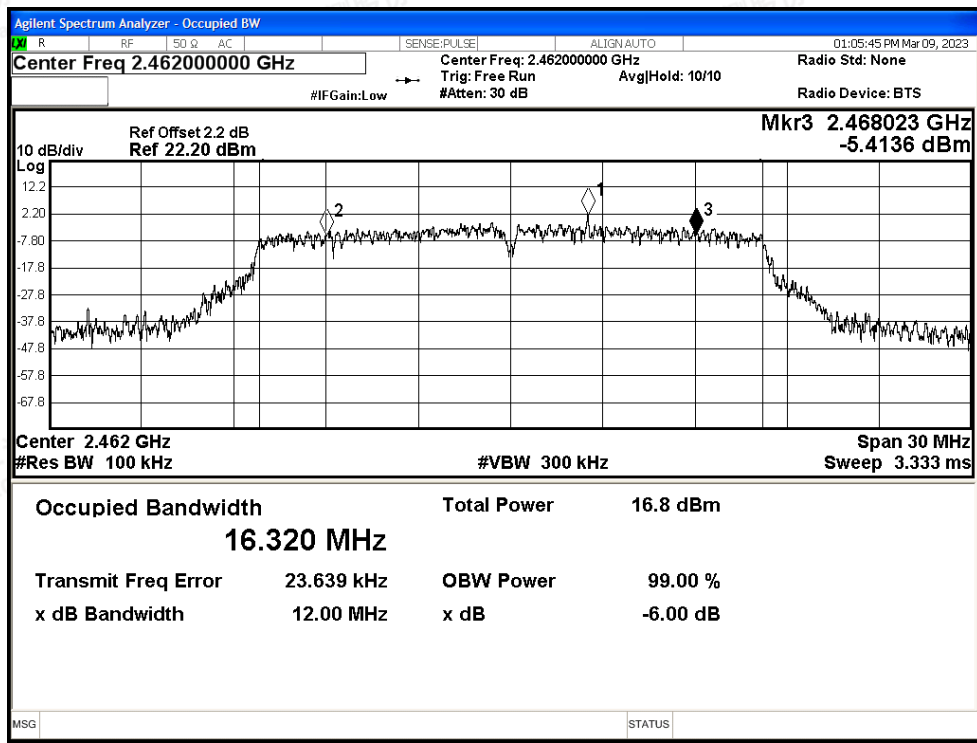




-6dB Bandwidth NVNT g 2437MHz Ant1

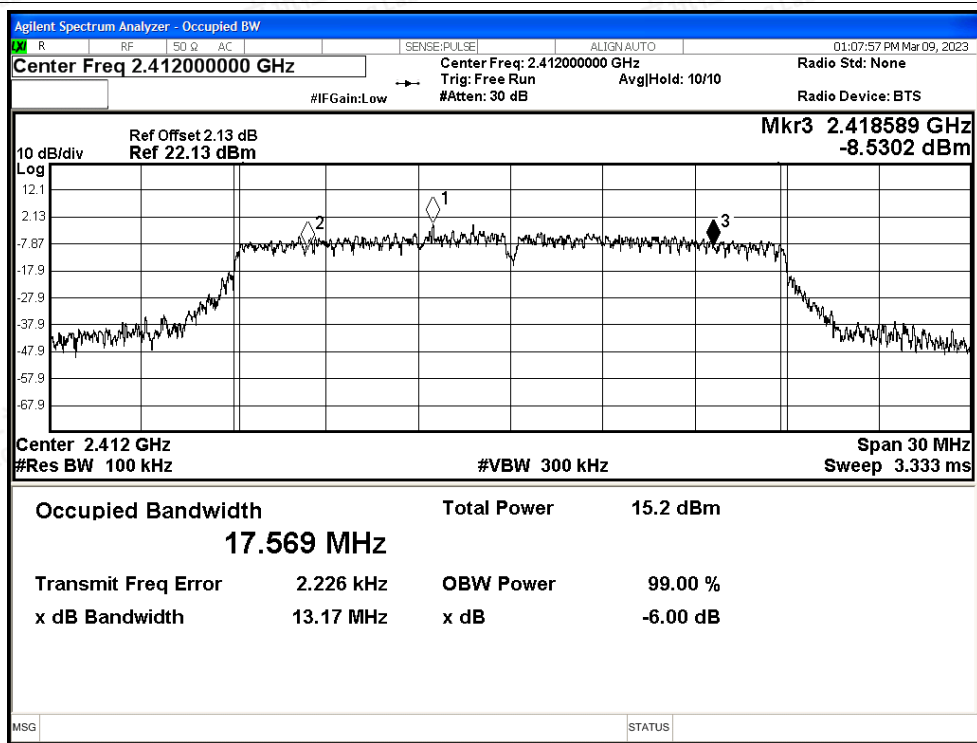


-6dB Bandwidth NVNT g 2462MHz Ant1

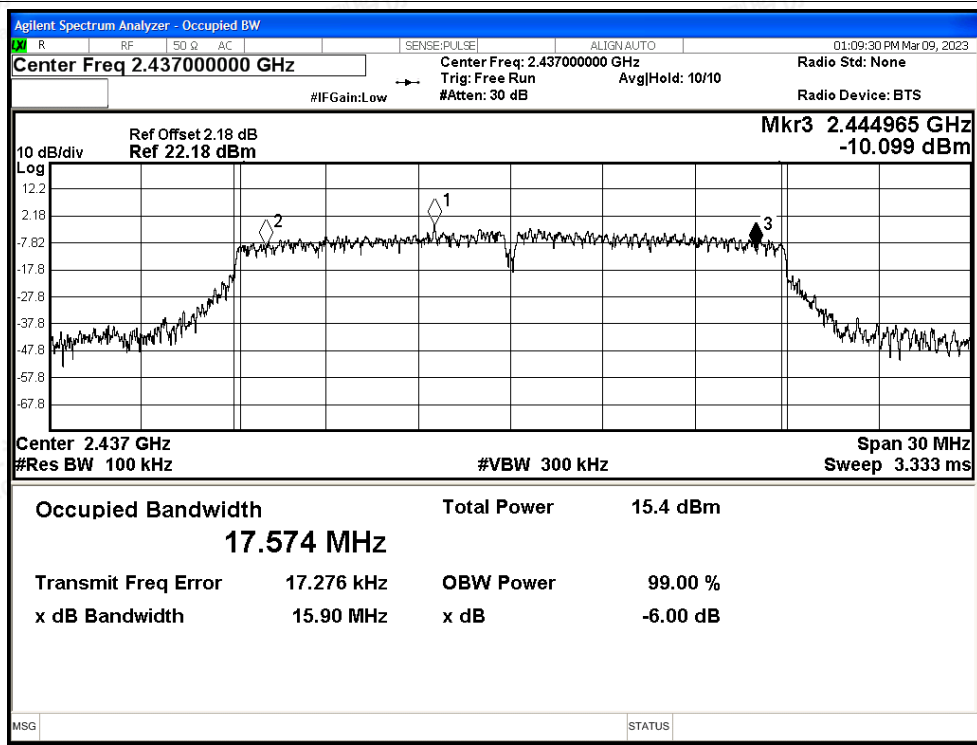




-6dB Bandwidth NVNT n20 2412MHz Ant1

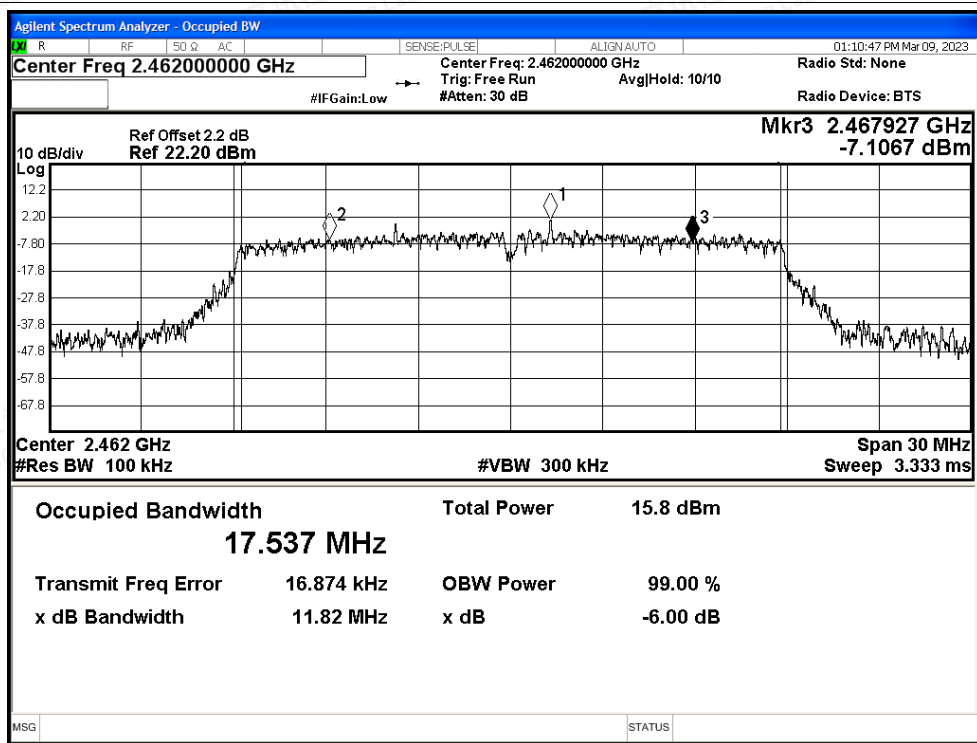


-6dB Bandwidth NVNT n20 2437MHz Ant1

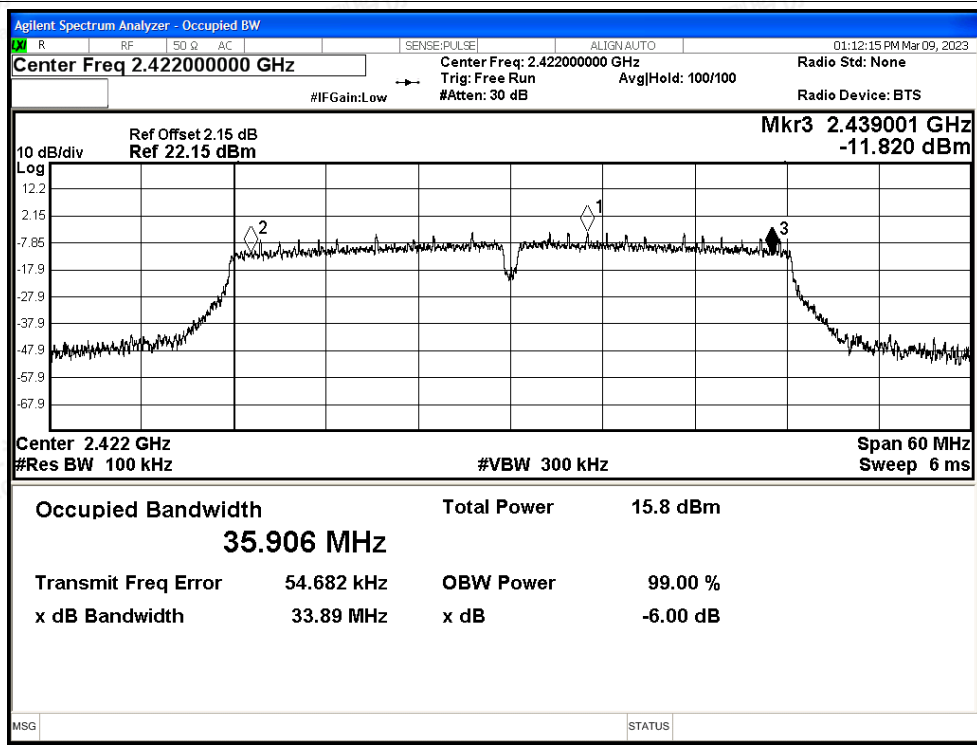




-6dB Bandwidth NVNT n20 2462MHz Ant1

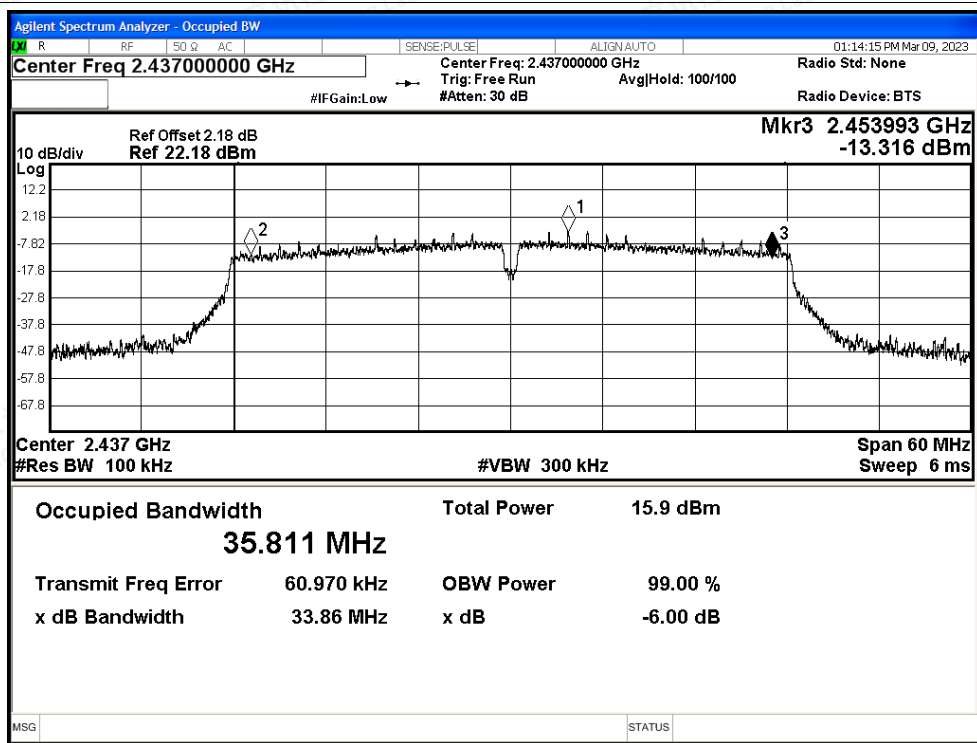


-6dB Bandwidth NVNT n40 2422MHz Ant1

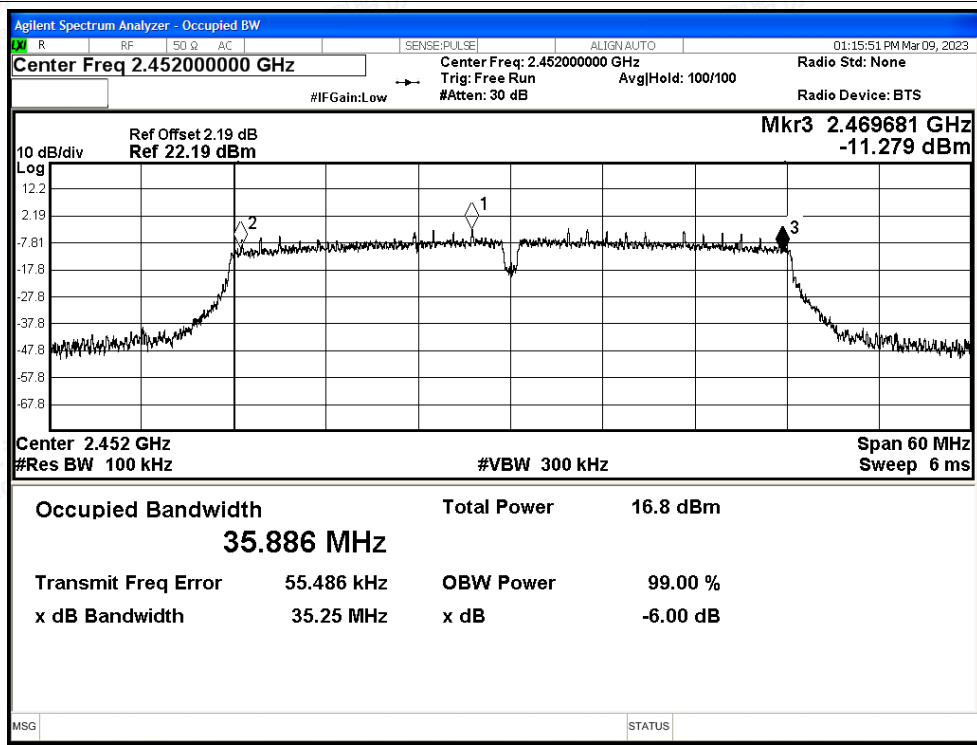




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.34	0	15.34	30	Pass
NVNT	b	2437	Ant1	15.86	0	15.86	30	Pass
NVNT	b	2462	Ant1	16.08	0	16.08	30	Pass
NVNT	g	2412	Ant1	15.04	0	15.04	30	Pass
NVNT	g	2437	Ant1	15.52	0	15.52	30	Pass
NVNT	g	2462	Ant1	15.44	0	15.44	30	Pass
NVNT	n20	2412	Ant1	13.75	0	13.75	30	Pass
NVNT	n20	2437	Ant1	14.25	0	14.25	30	Pass
NVNT	n20	2462	Ant1	16.07	0	16.07	30	Pass
NVNT	n40	2422	Ant1	14.14	0	14.14	30	Pass
NVNT	n40	2437	Ant1	14.32	0	14.32	30	Pass
NVNT	n40	2452	Ant1	15.29	0	15.29	30	Pass





A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.33	0	-8.33	8	Pass
NVNT	b	2437	Ant1	-6.5	0	-6.5	8	Pass
NVNT	b	2462	Ant1	-8.4	0	-8.4	8	Pass
NVNT	g	2412	Ant1	-11.63	0	-11.63	8	Pass
NVNT	g	2437	Ant1	-11.26	0	-11.26	8	Pass
NVNT	g	2462	Ant1	-11.22	0	-11.22	8	Pass
NVNT	n20	2412	Ant1	-14.41	0	-14.41	8	Pass
NVNT	n20	2437	Ant1	-12.77	0	-12.77	8	Pass
NVNT	n20	2462	Ant1	-13.81	0	-13.81	8	Pass
NVNT	n40	2422	Ant1	-18.8	0	-18.8	8	Pass
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NVNT	n40	2452	Ant1	-17.11	0	-17.11	8	Pass

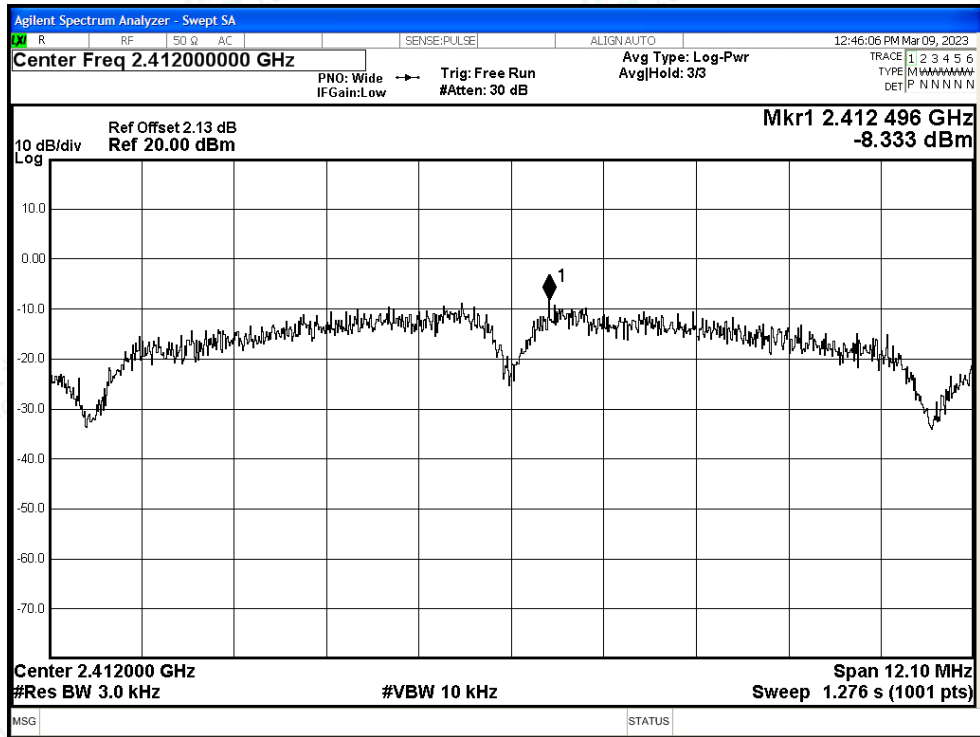


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 Scan code to check authenticity

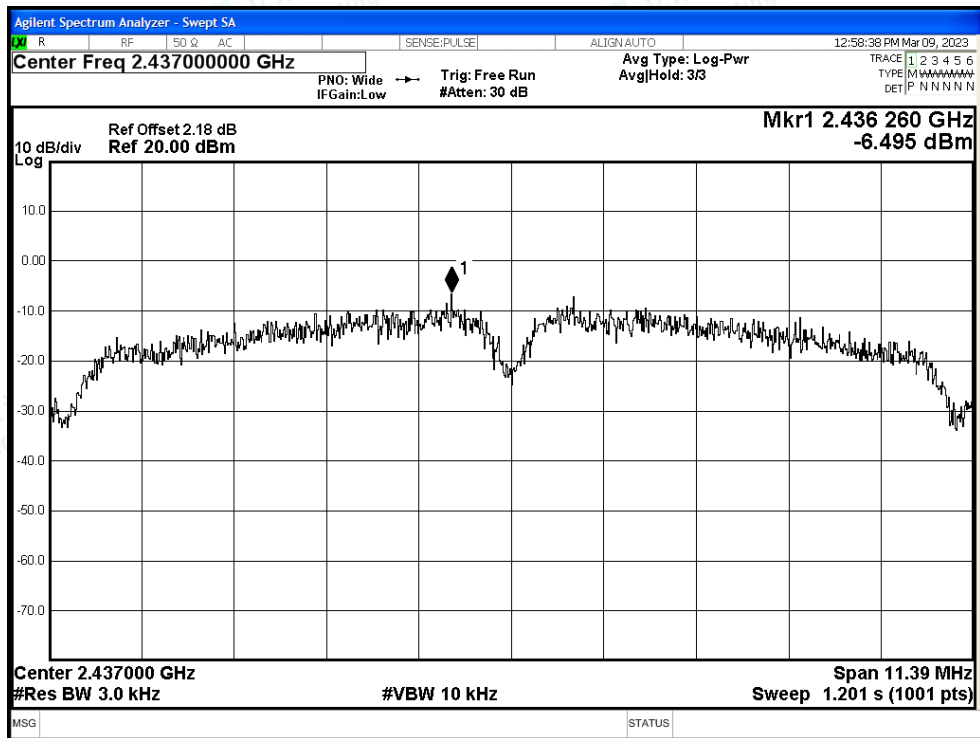


Test Graphs

PSD NVNT b 2412MHz Ant1

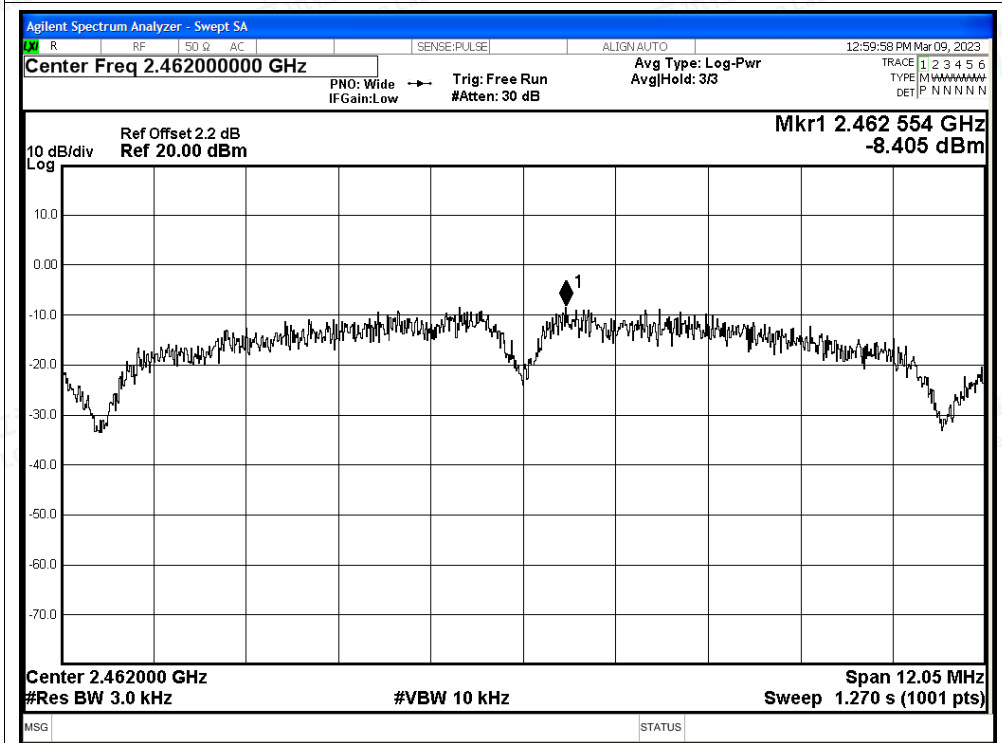


PSD NVNT b 2437MHz Ant1

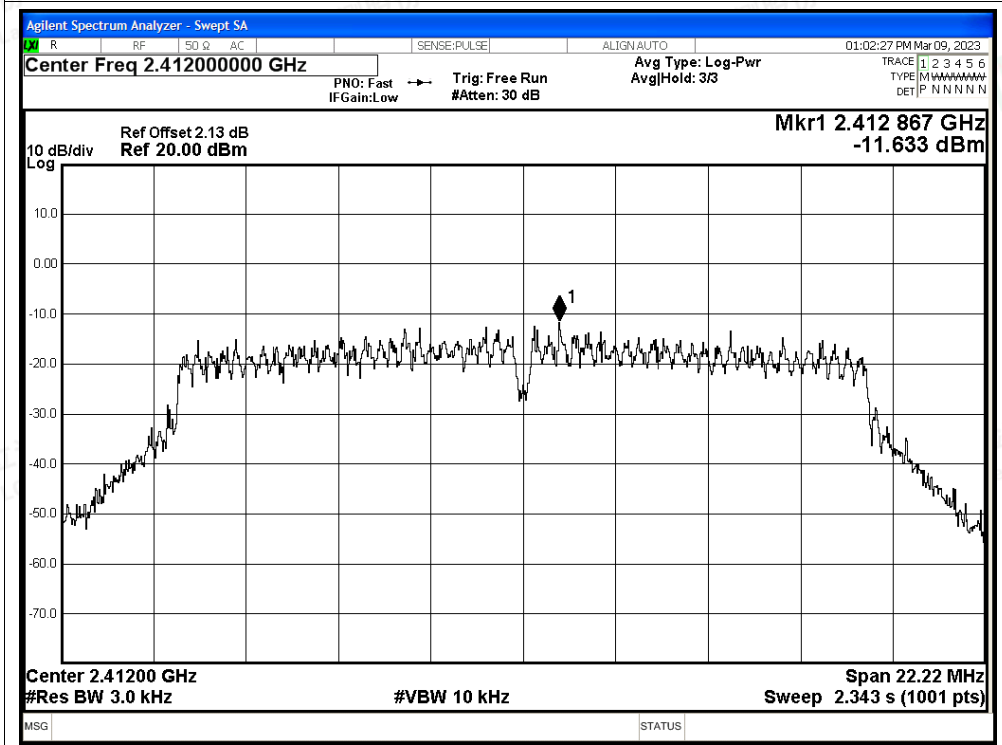




PSD NVNT b 2462MHz Ant1

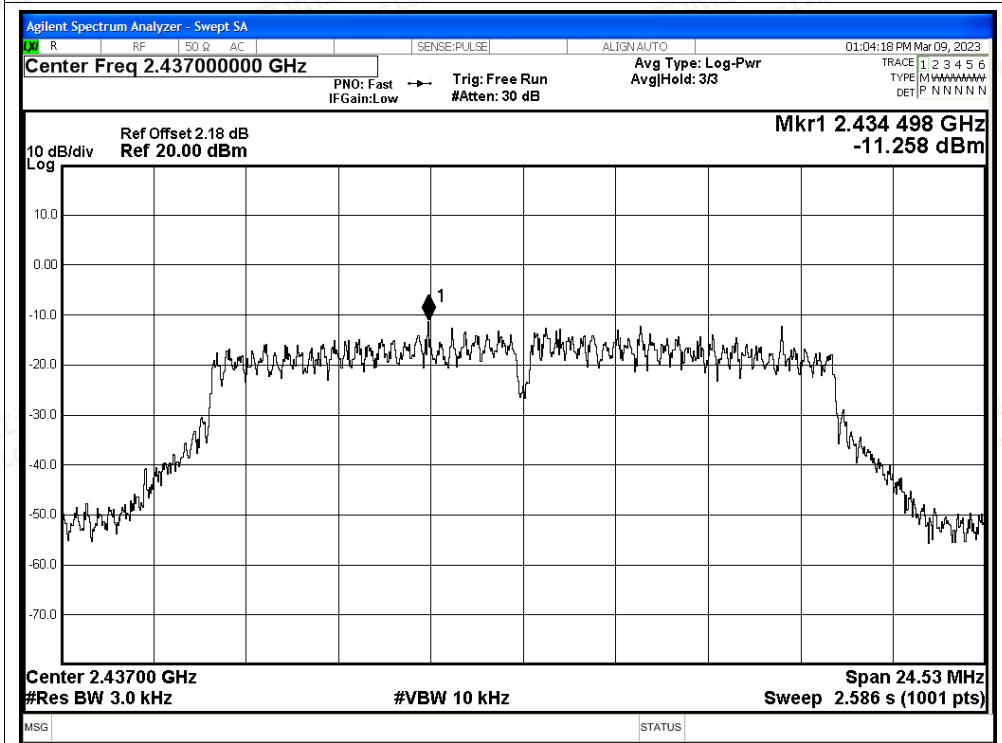


PSD NVNT g 2412MHz Ant1

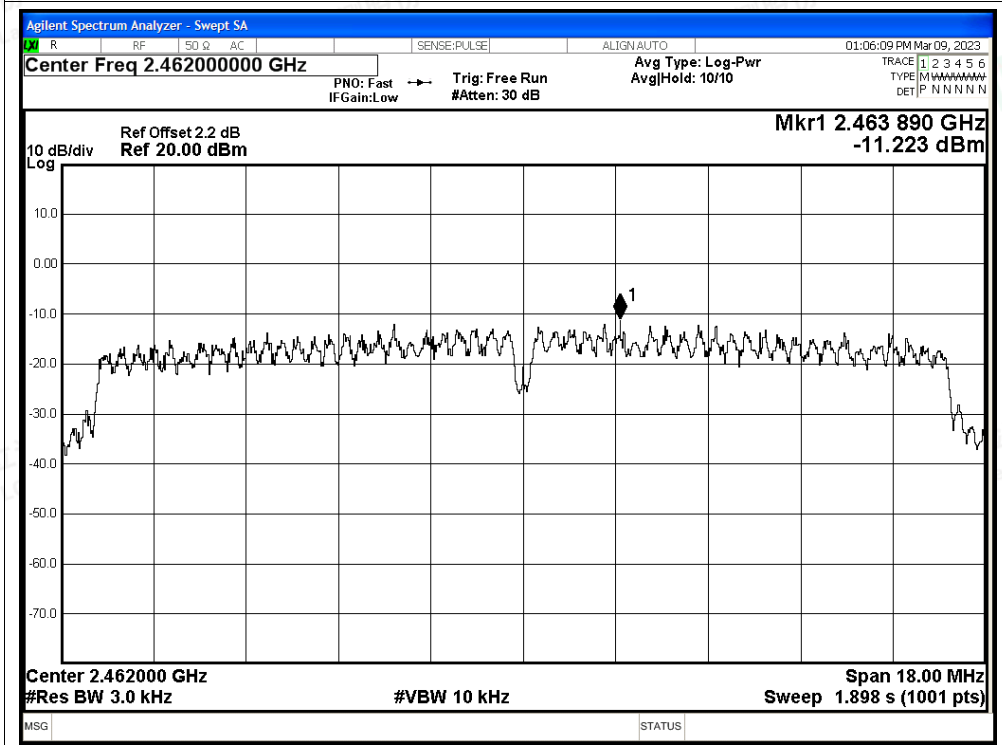


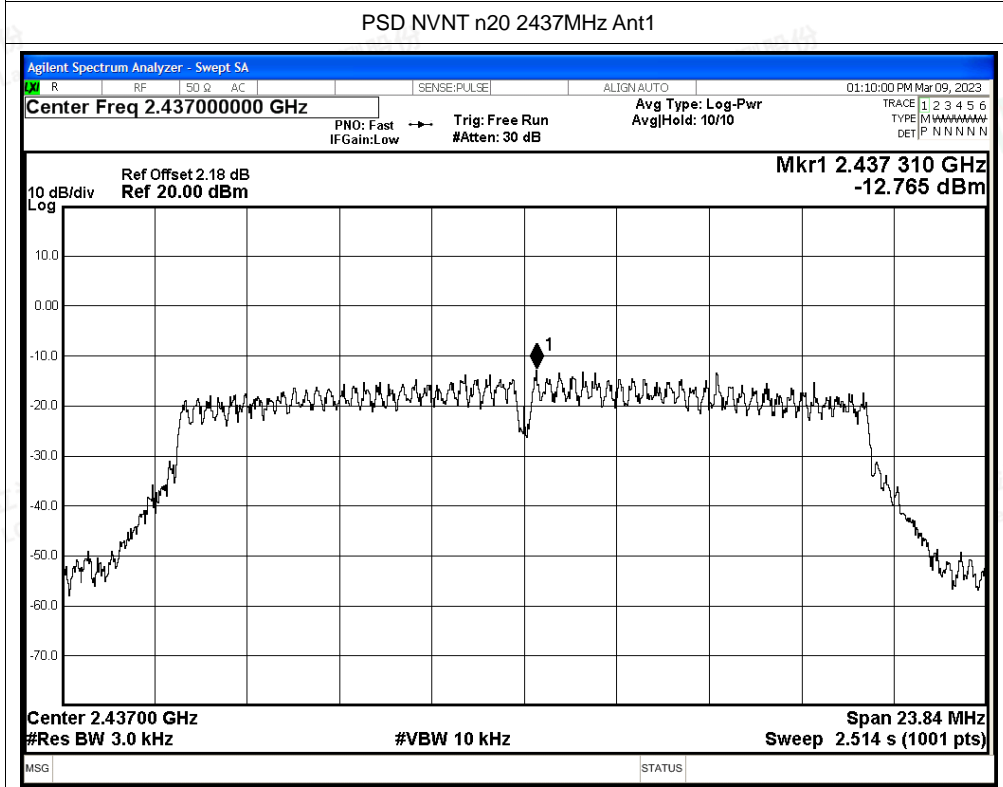
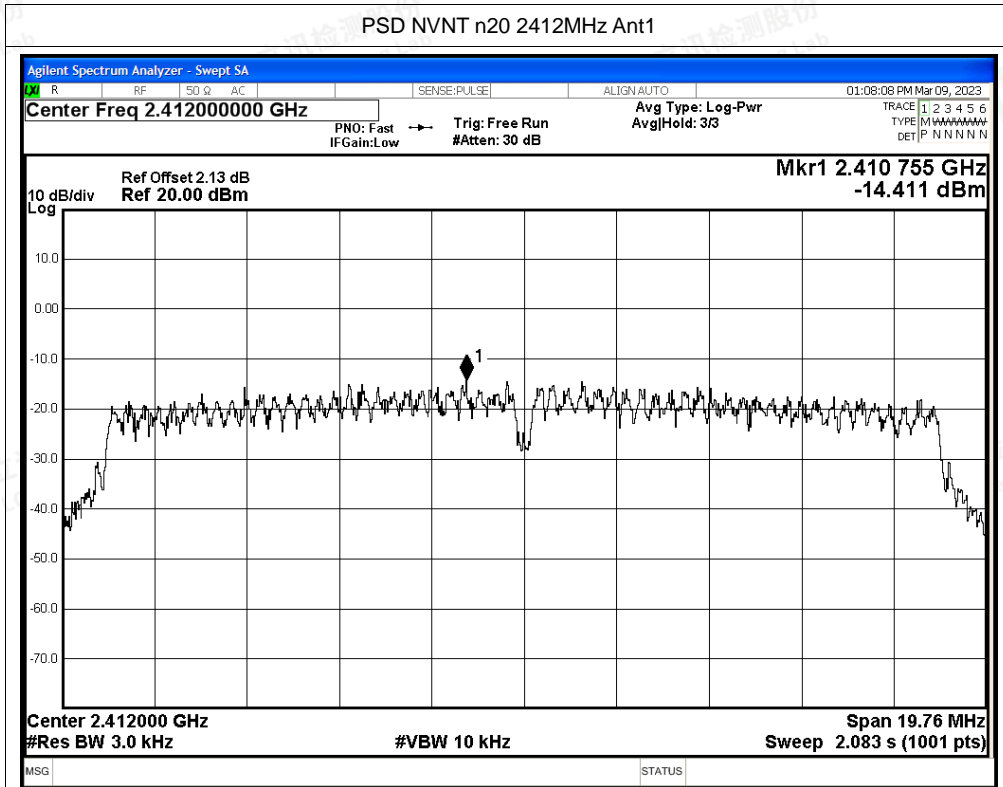


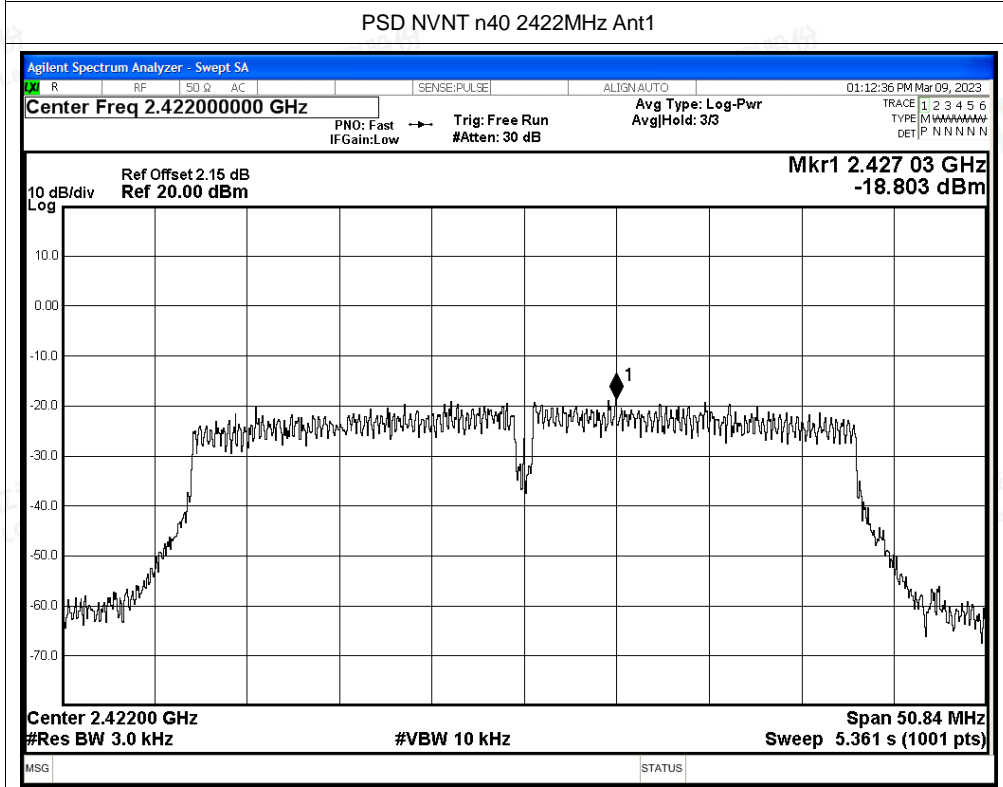
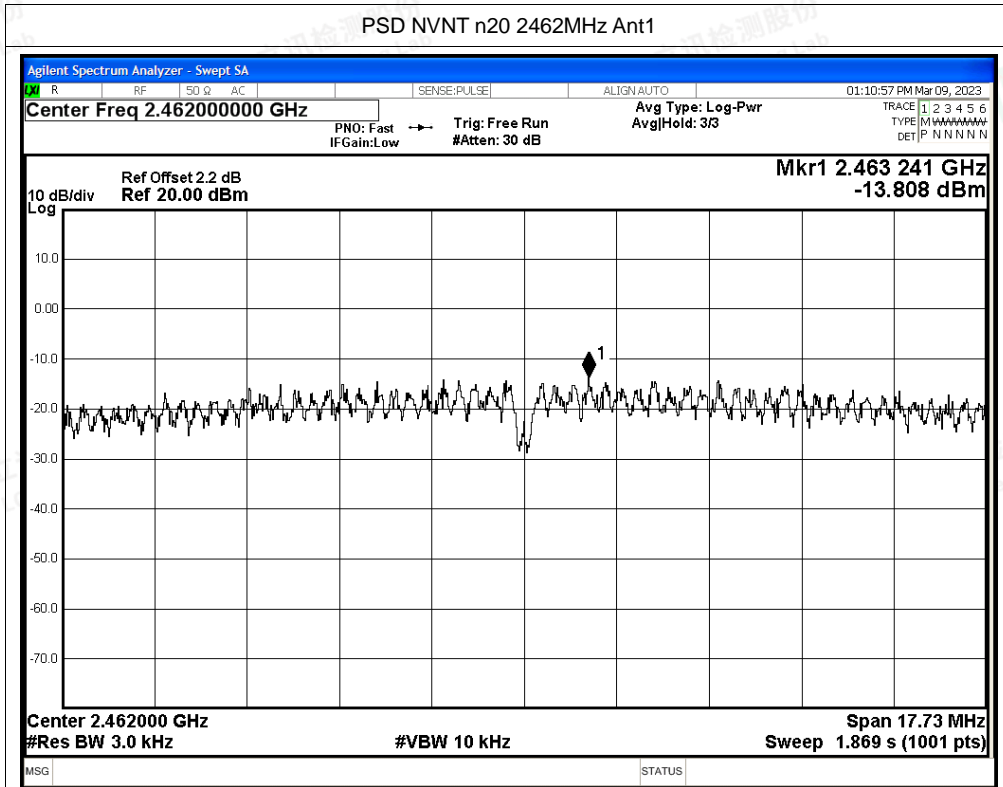
PSD NVNT g 2437MHz Ant1

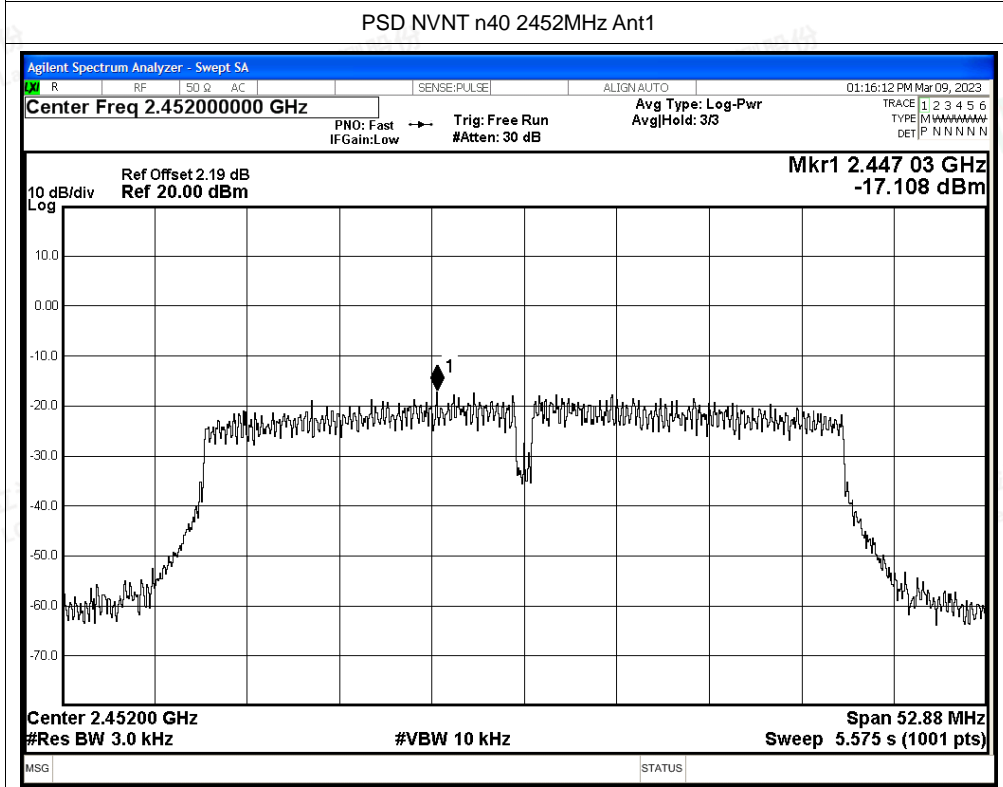
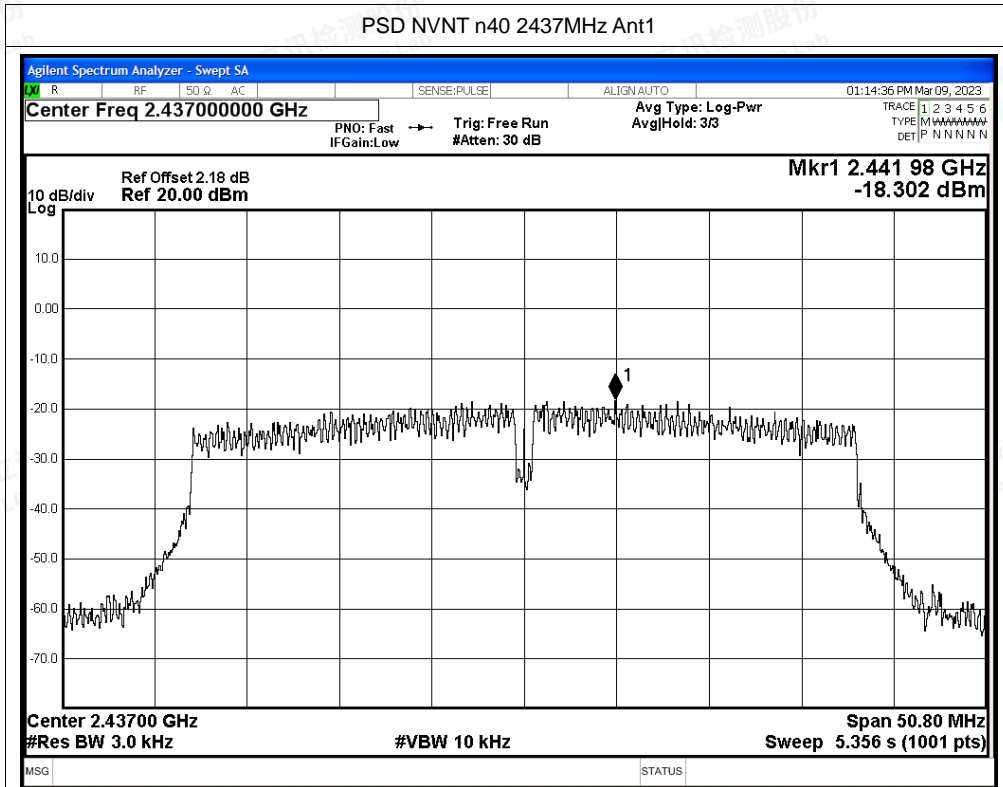


PSD NVNT g 2462MHz Ant1











A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.03	-20	Pass
NVNT	b	2462	Ant1	-61.2	-20	Pass
NVNT	g	2412	Ant1	-36.97	-20	Pass
NVNT	g	2462	Ant1	-52.67	-20	Pass
NVNT	n20	2412	Ant1	-37.3	-20	Pass
NVNT	n20	2462	Ant1	-52.61	-20	Pass
NVNT	n40	2422	Ant1	-38.08	-20	Pass
NVNT	n40	2452	Ant1	-41.23	-20	Pass

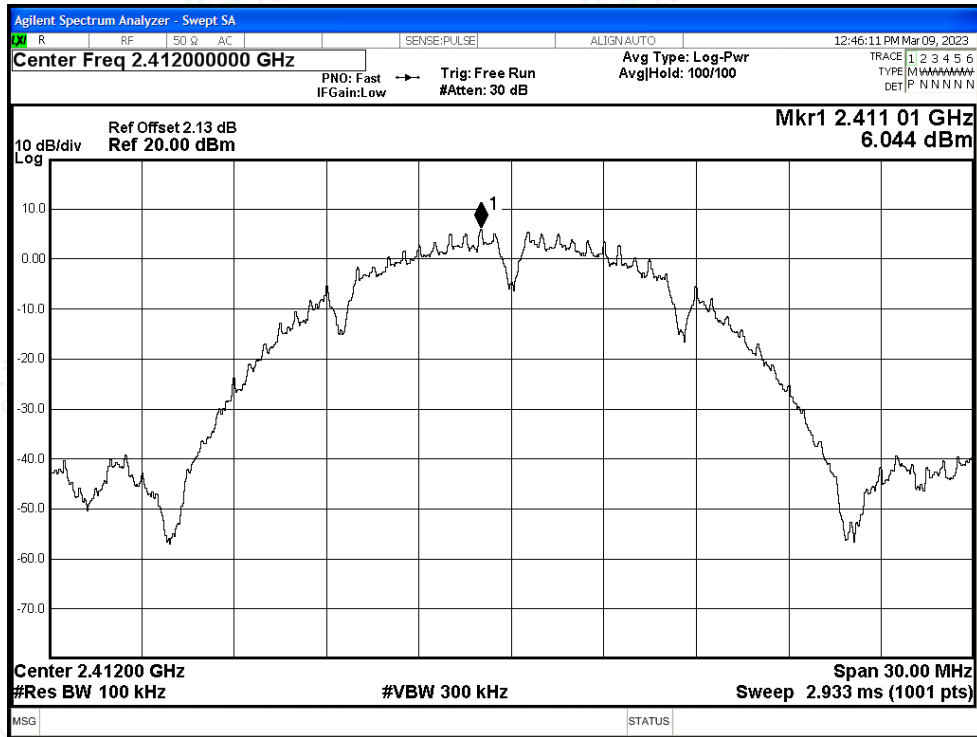


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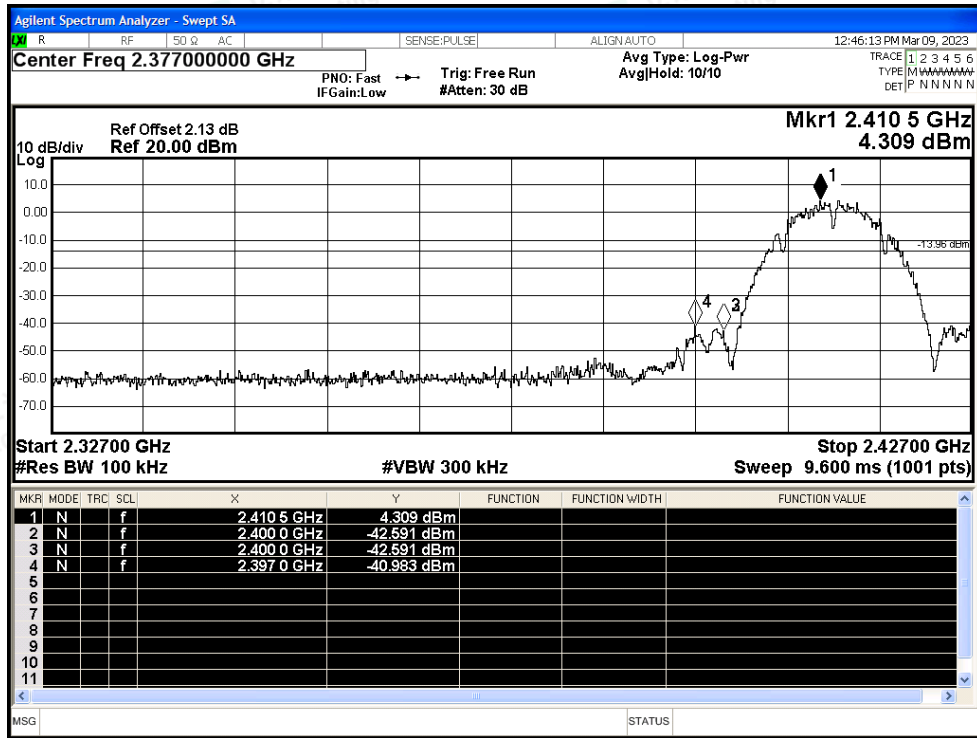


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

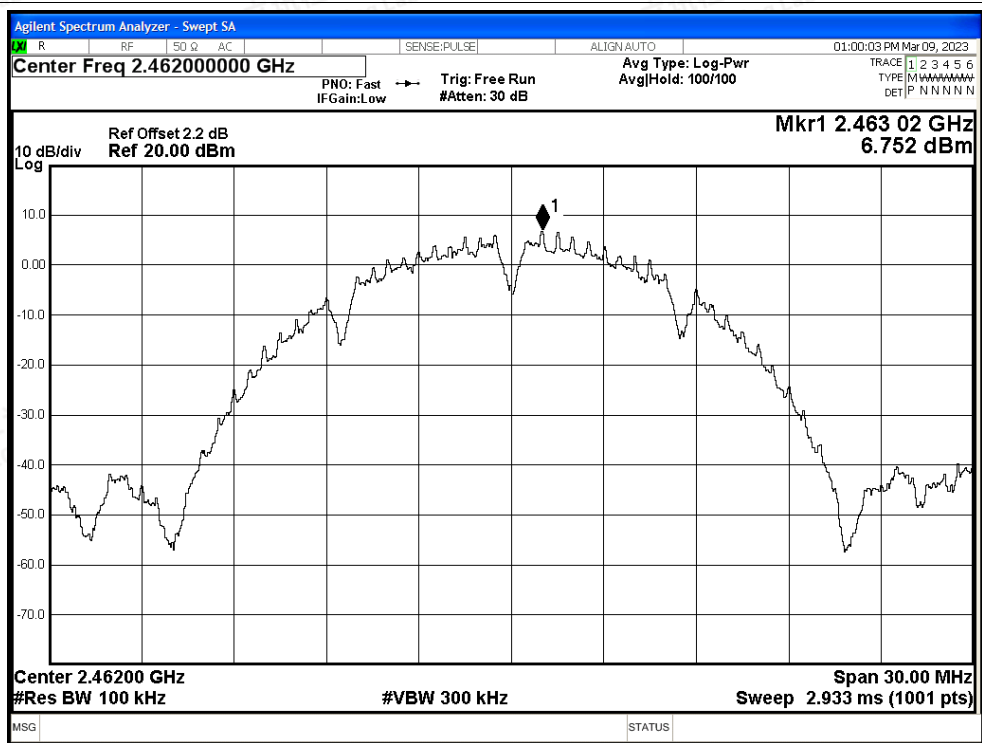


Band Edge NVNT b 2412MHz Ant1 Emission

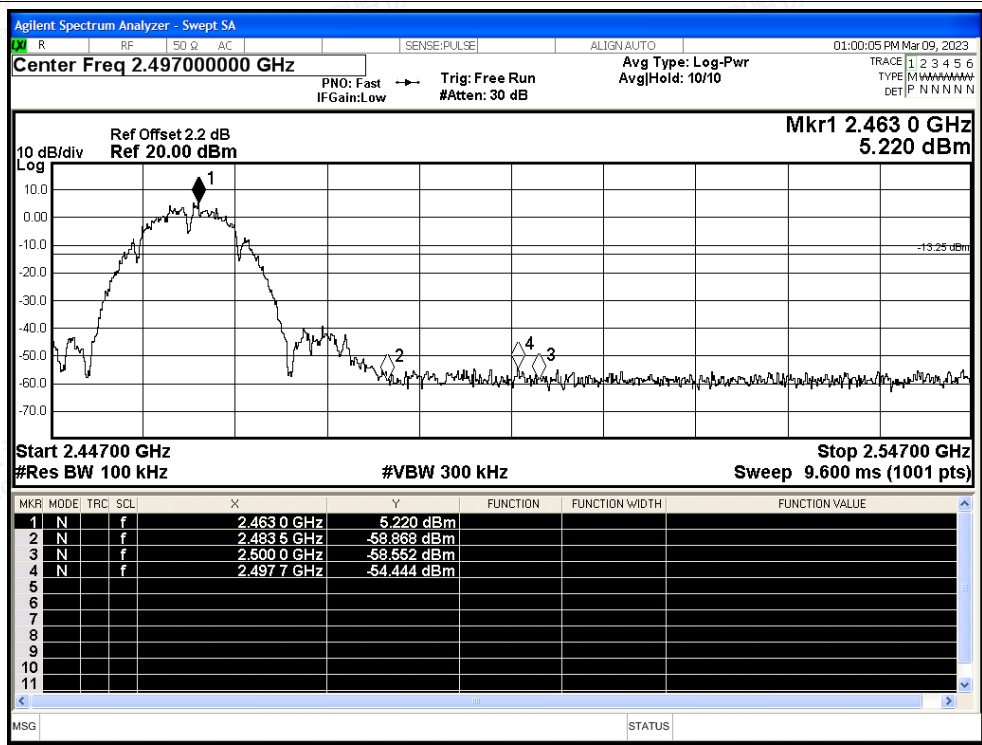




Band Edge NVNT b 2462MHz Ant1 Ref

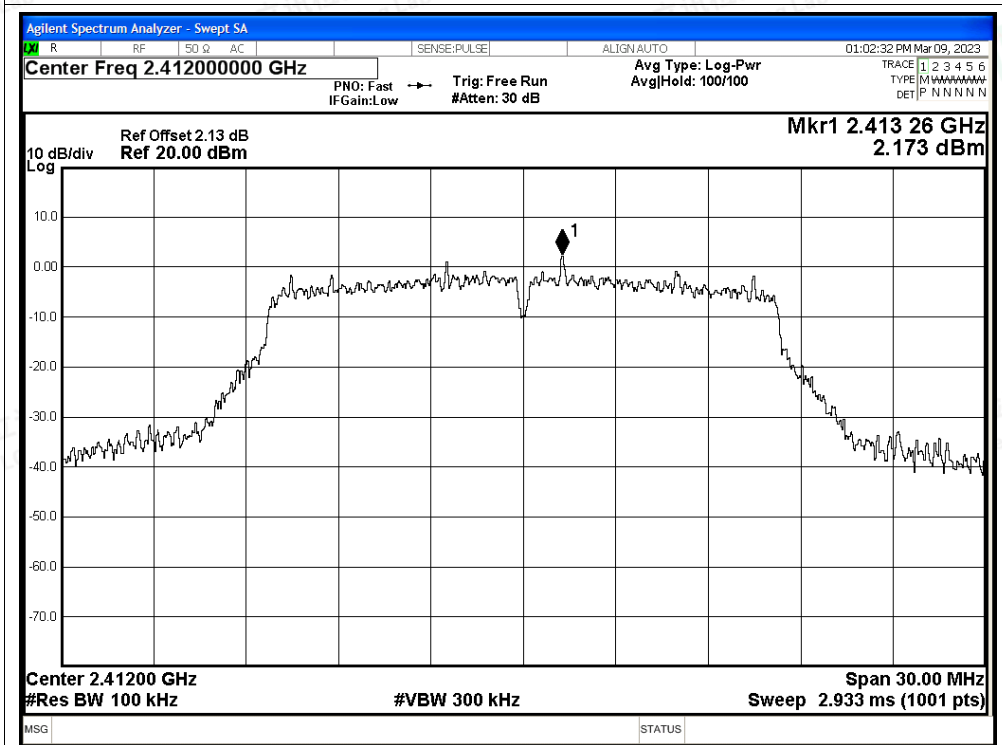


Band Edge NVNT b 2462MHz Ant1 Emission

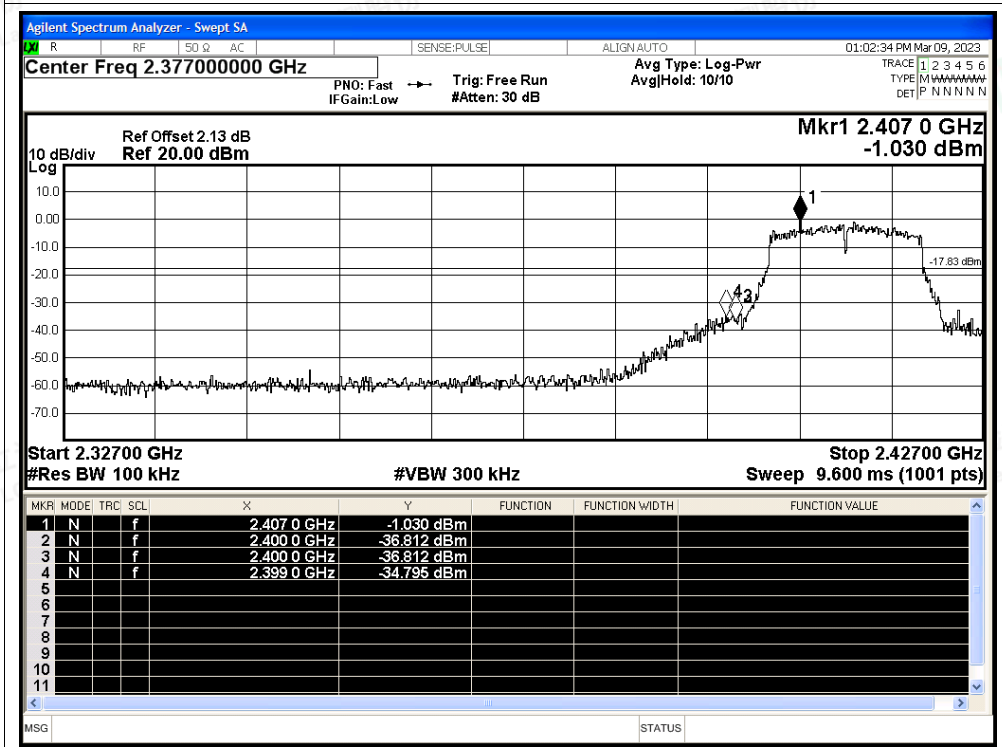




Band Edge NVNT g 2412MHz Ant1 Ref

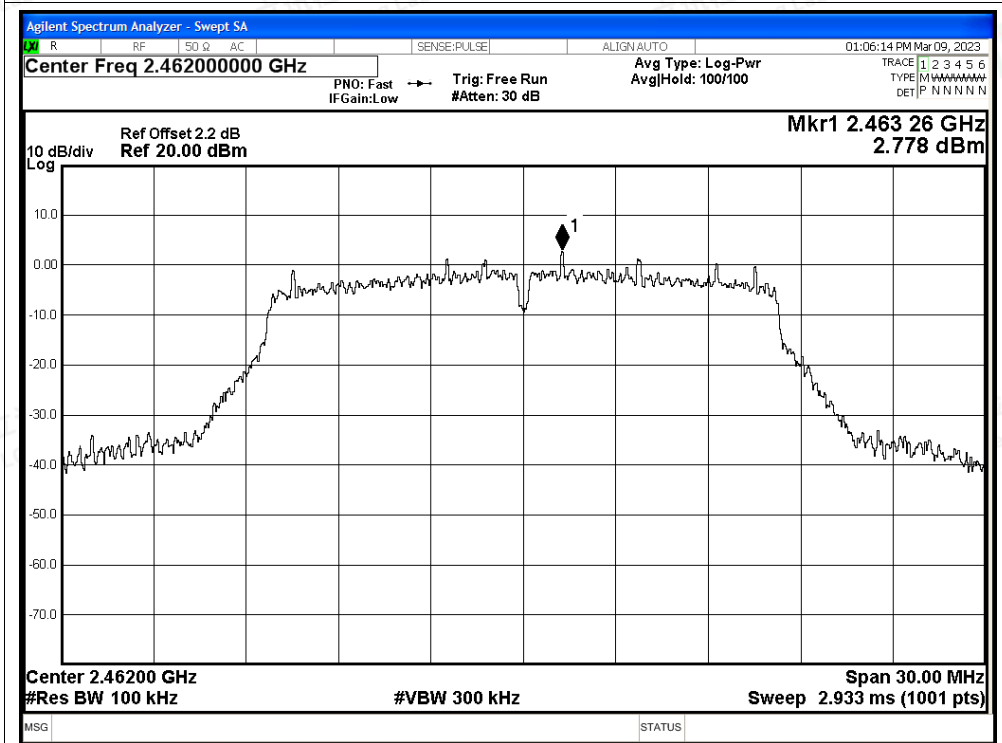


Band Edge NVNT g 2412MHz Ant1 Emission

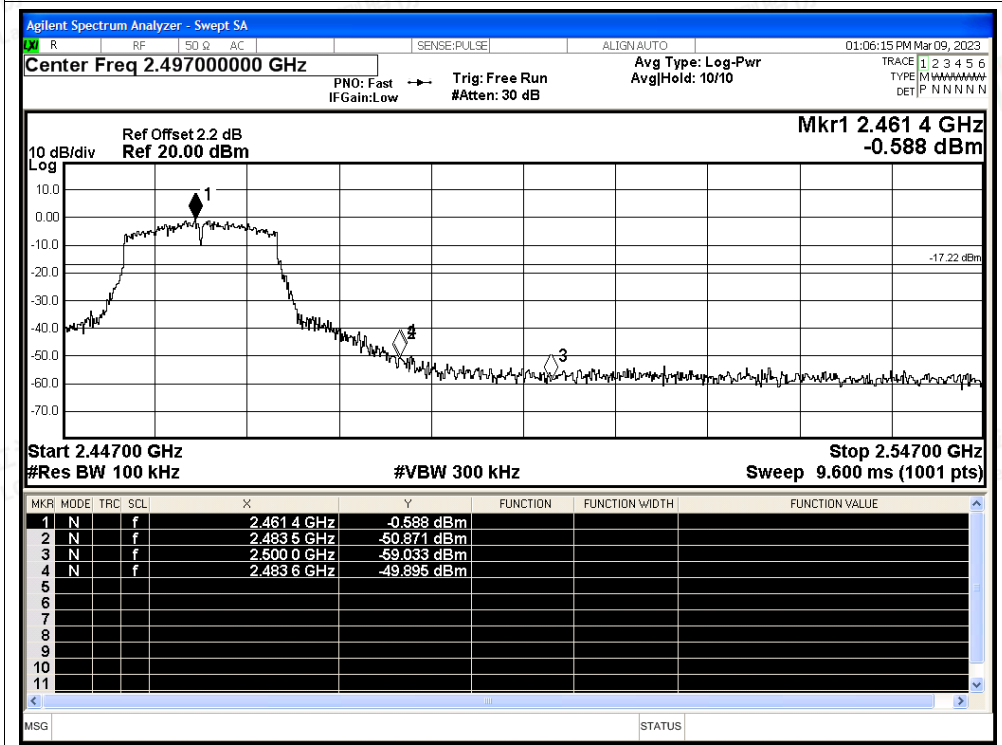




Band Edge NVNT g 2462MHz Ant1 Ref

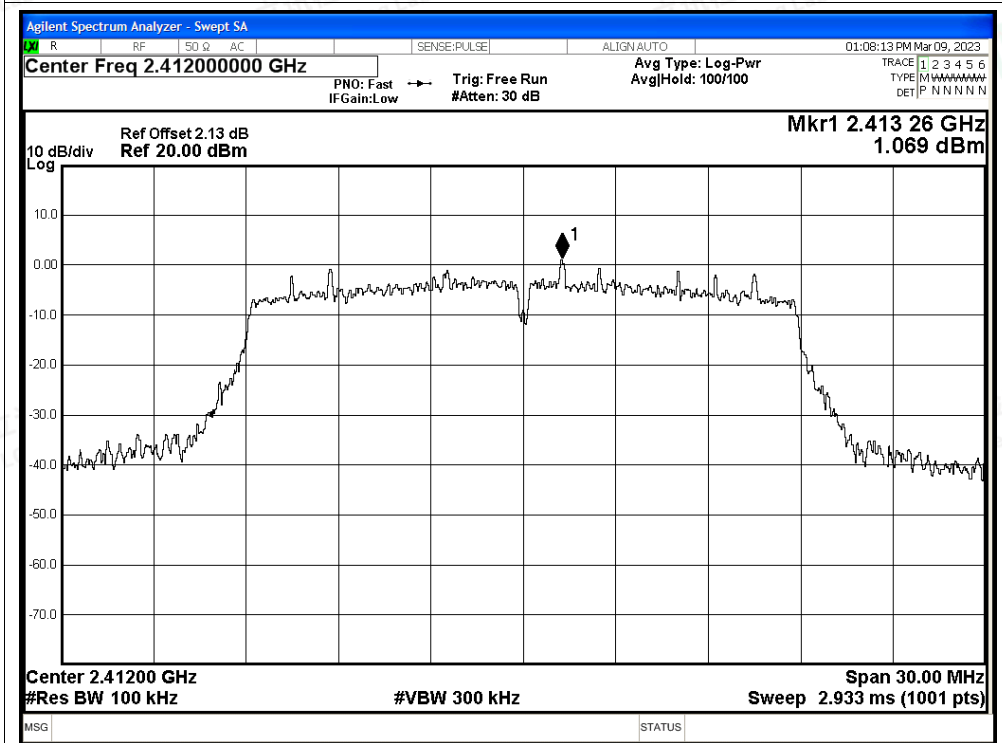


Band Edge NVNT g 2462MHz Ant1 Emission

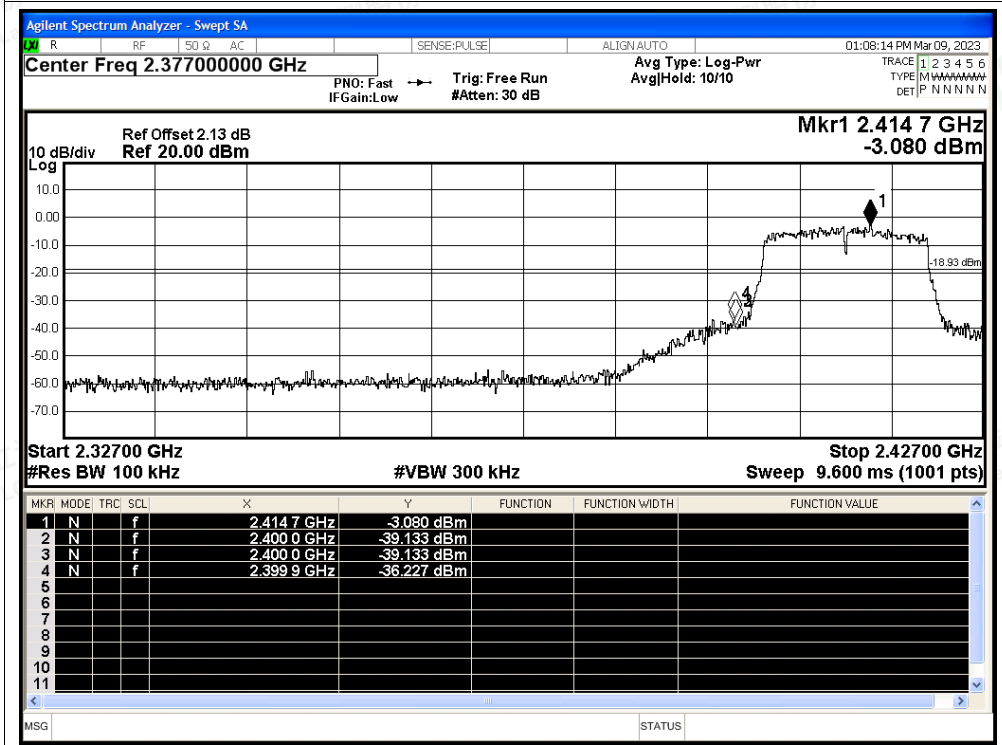




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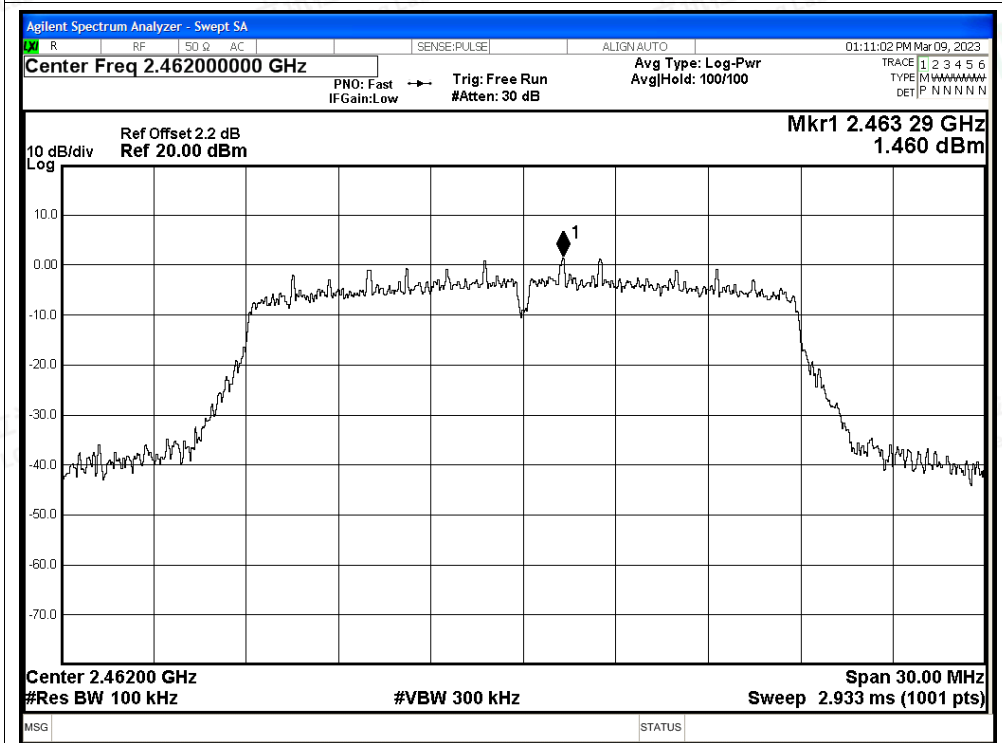


Band Edge NVNT n20 2412MHz Ant1 Emission

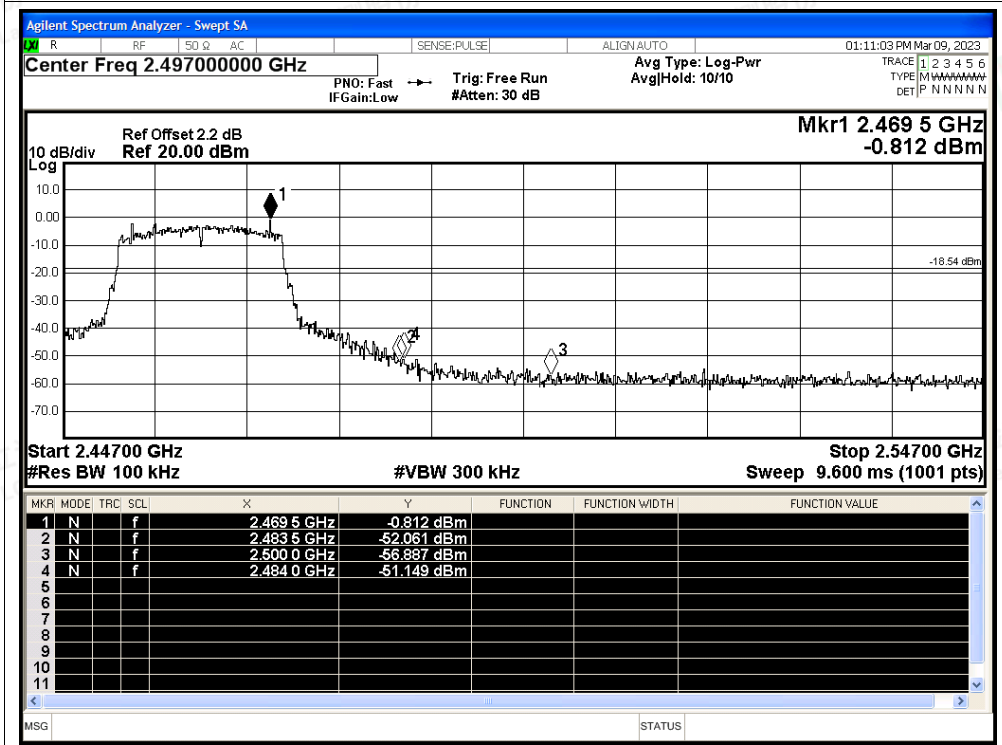


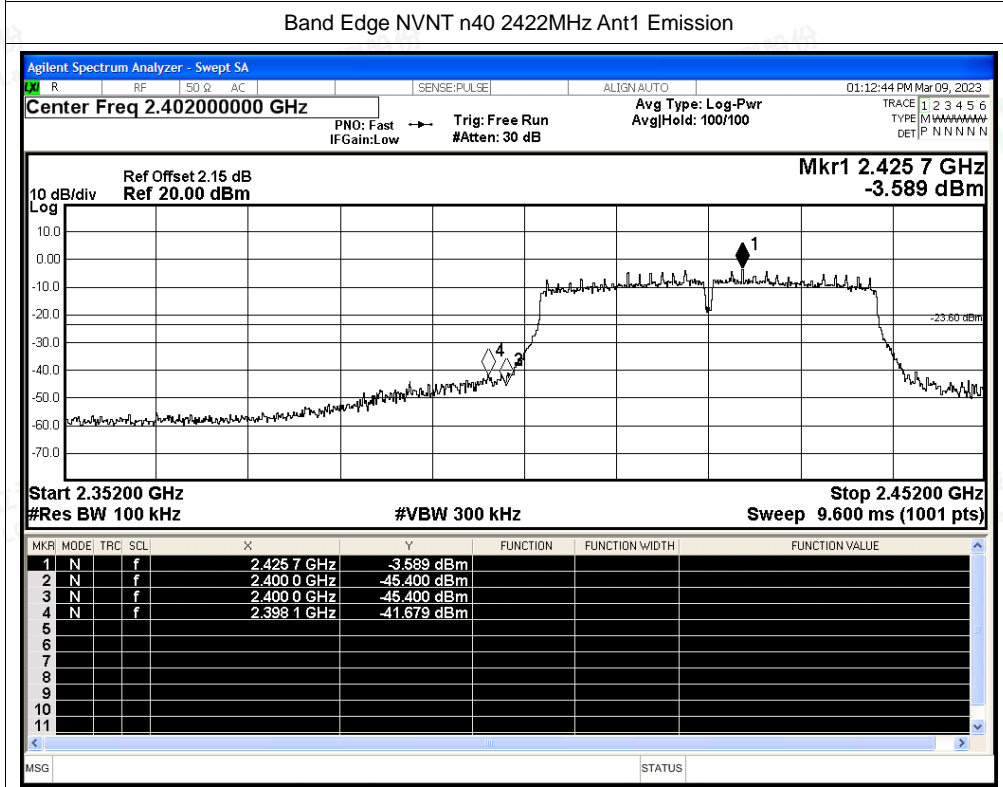
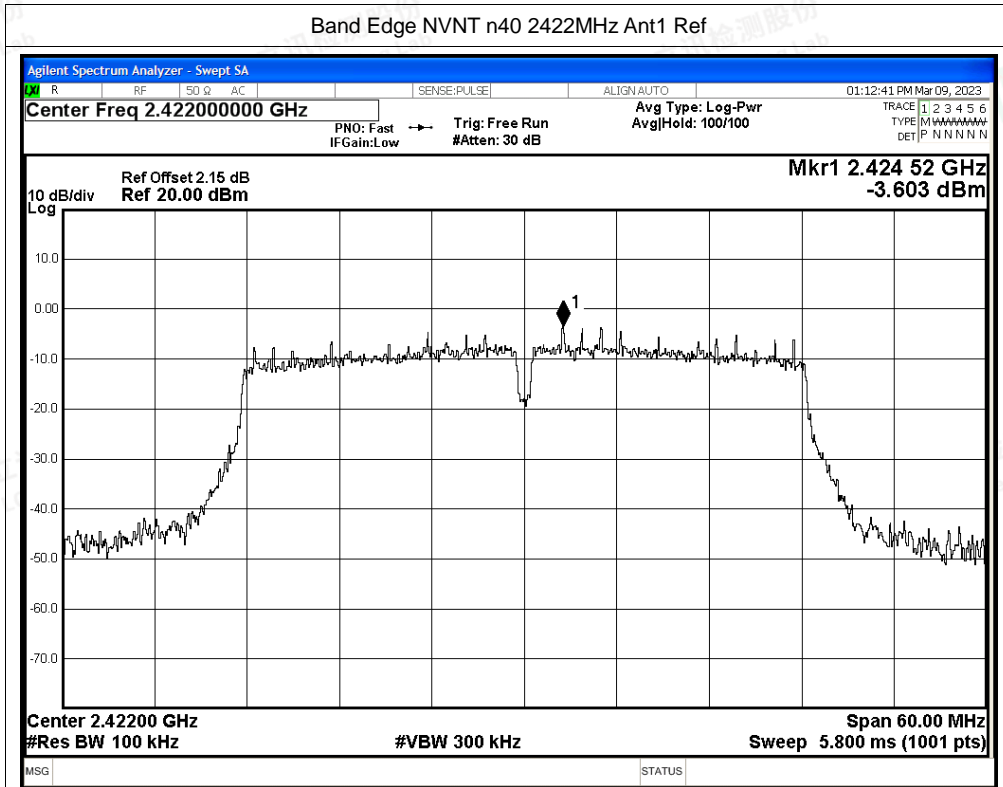


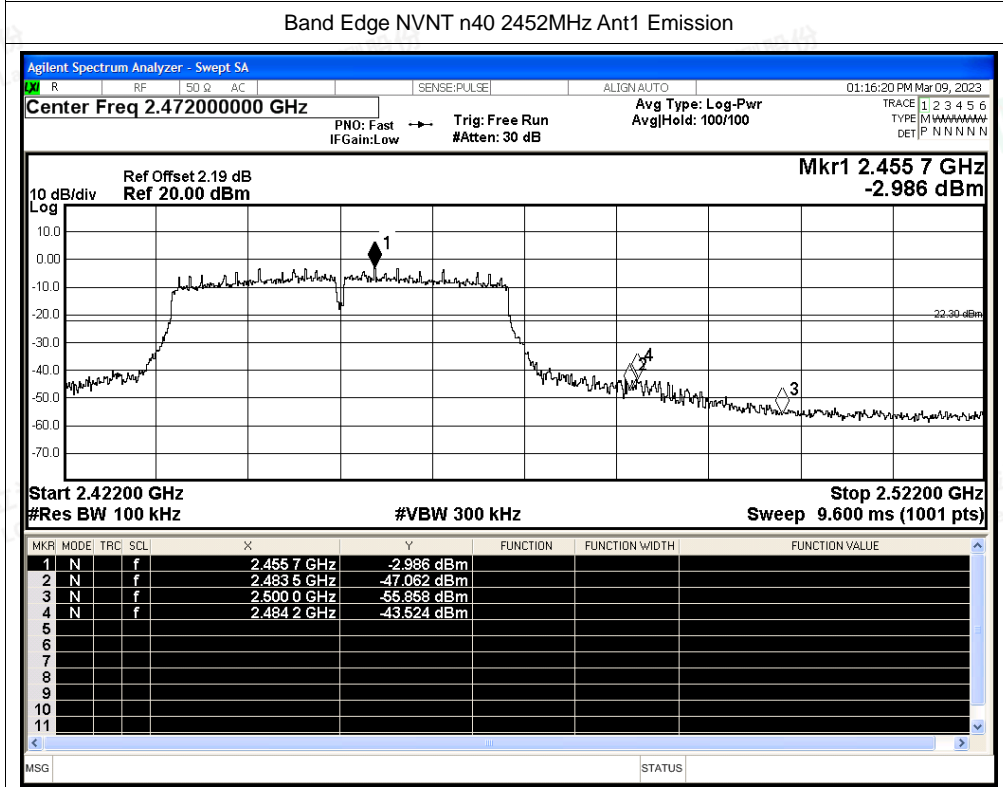
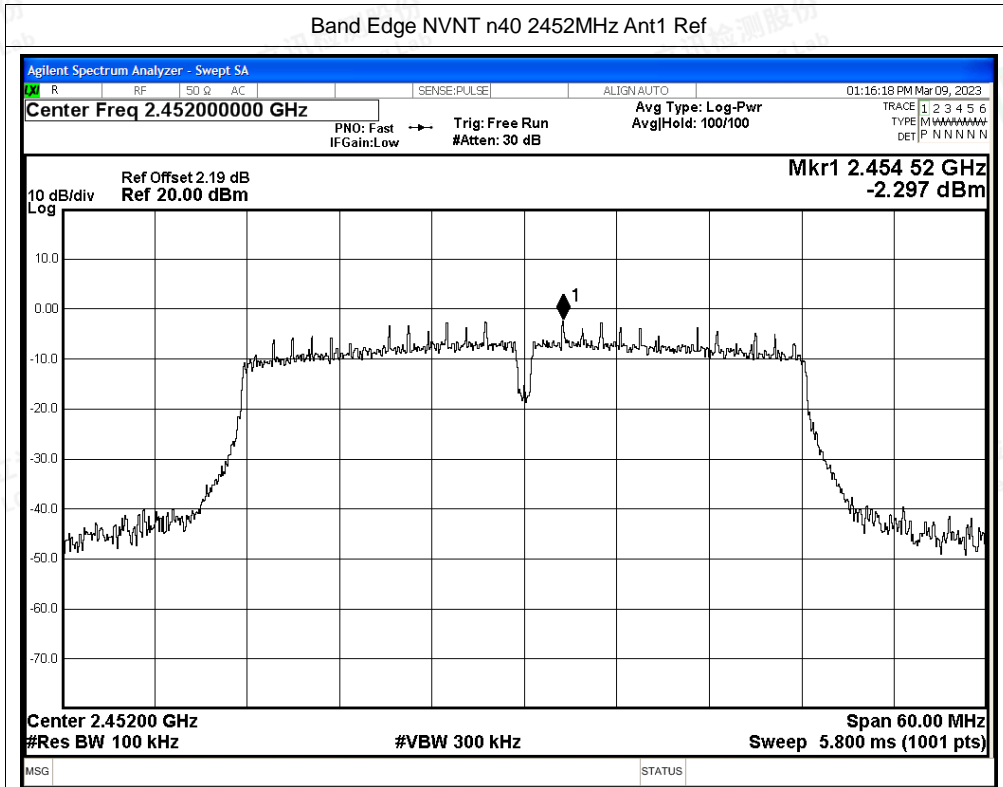
Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission









A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.93	-20	Pass
NVNT	b	2437	Ant1	-50.22	-20	Pass
NVNT	b	2462	Ant1	-50.65	-20	Pass
NVNT	g	2412	Ant1	-45.37	-20	Pass
NVNT	g	2437	Ant1	-48.53	-20	Pass
NVNT	g	2462	Ant1	-46.79	-20	Pass
NVNT	n20	2412	Ant1	-46.56	-20	Pass
NVNT	n20	2437	Ant1	-46.31	-20	Pass
NVNT	n20	2462	Ant1	-46.96	-20	Pass
NVNT	n40	2422	Ant1	-41.69	-20	Pass
NVNT	n40	2437	Ant1	-42.27	-20	Pass
NVNT	n40	2452	Ant1	-42.51	-20	Pass

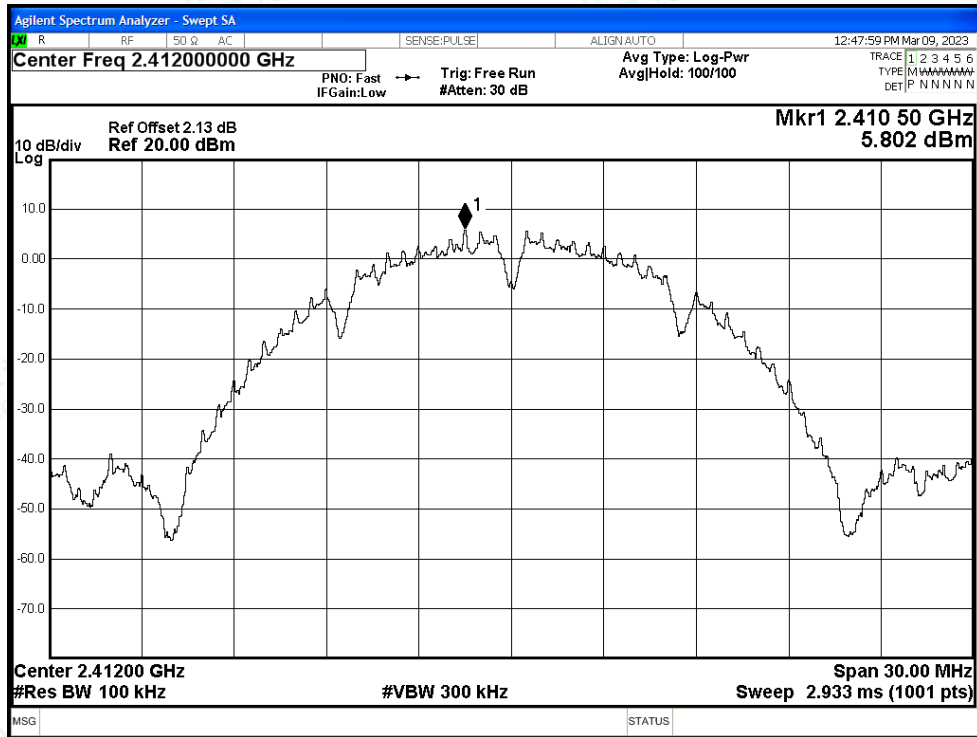


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 Scan code to check authenticity

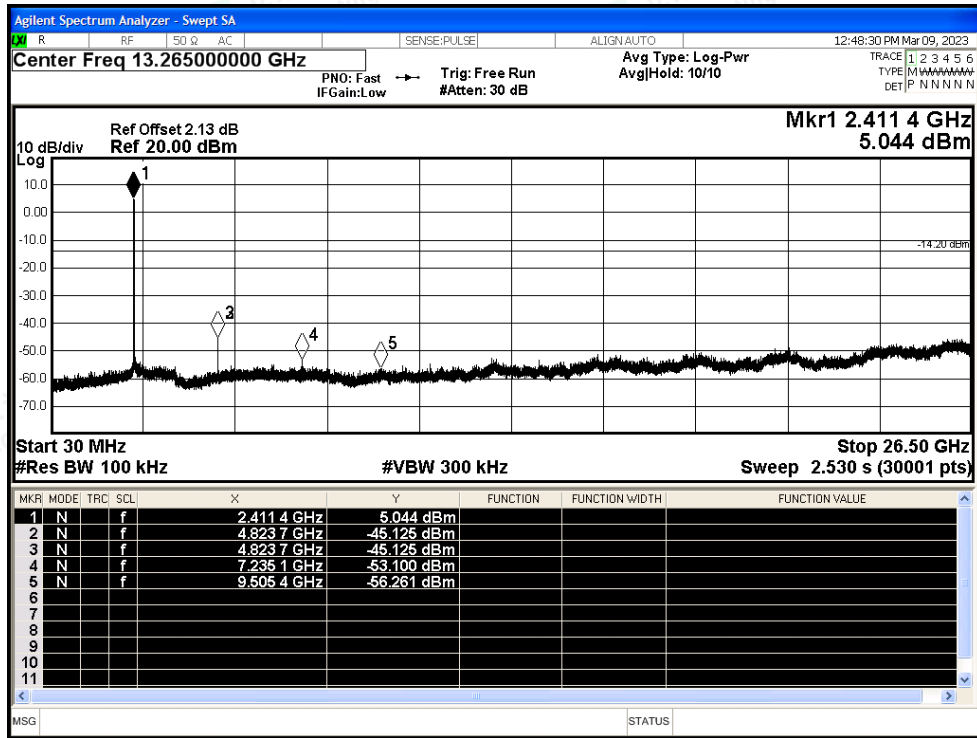


Test Graphs

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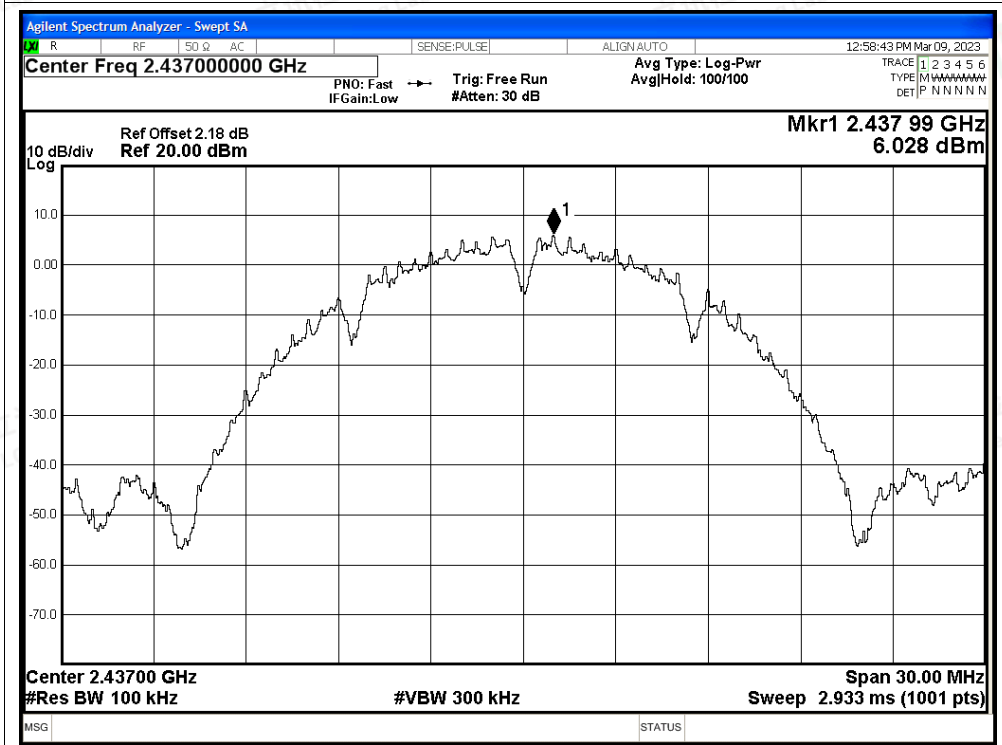


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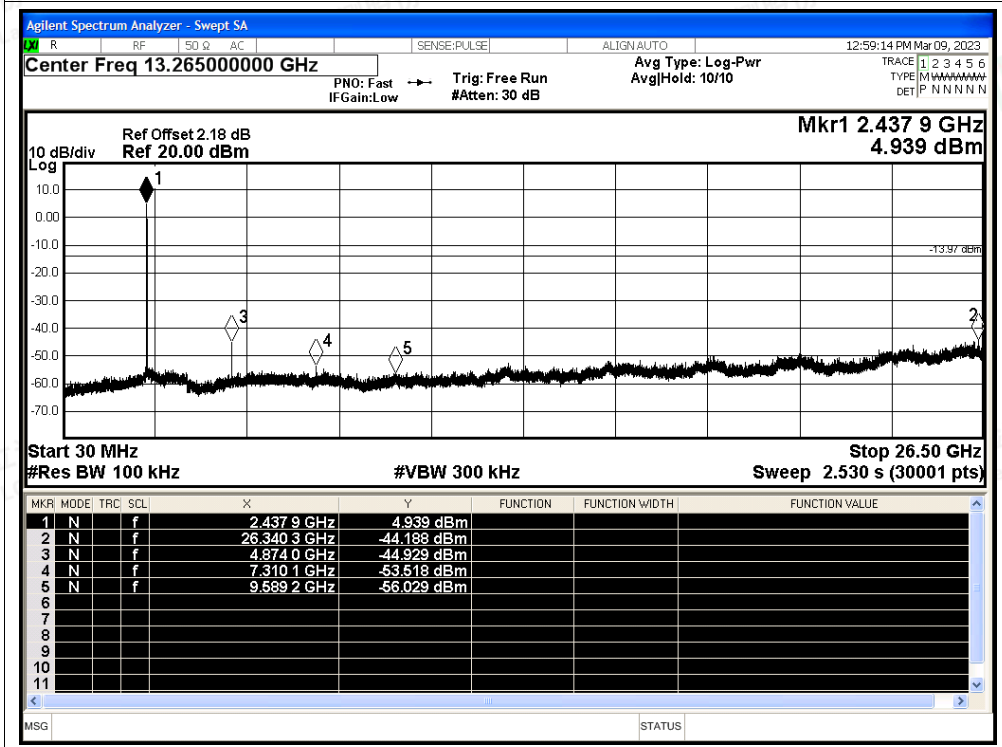




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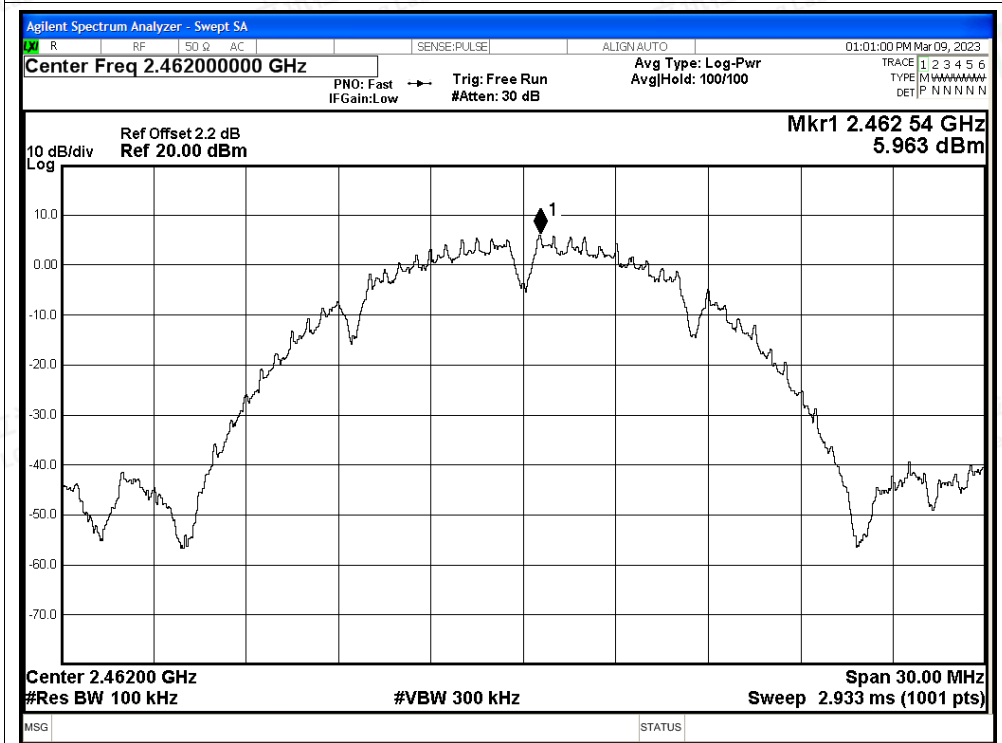


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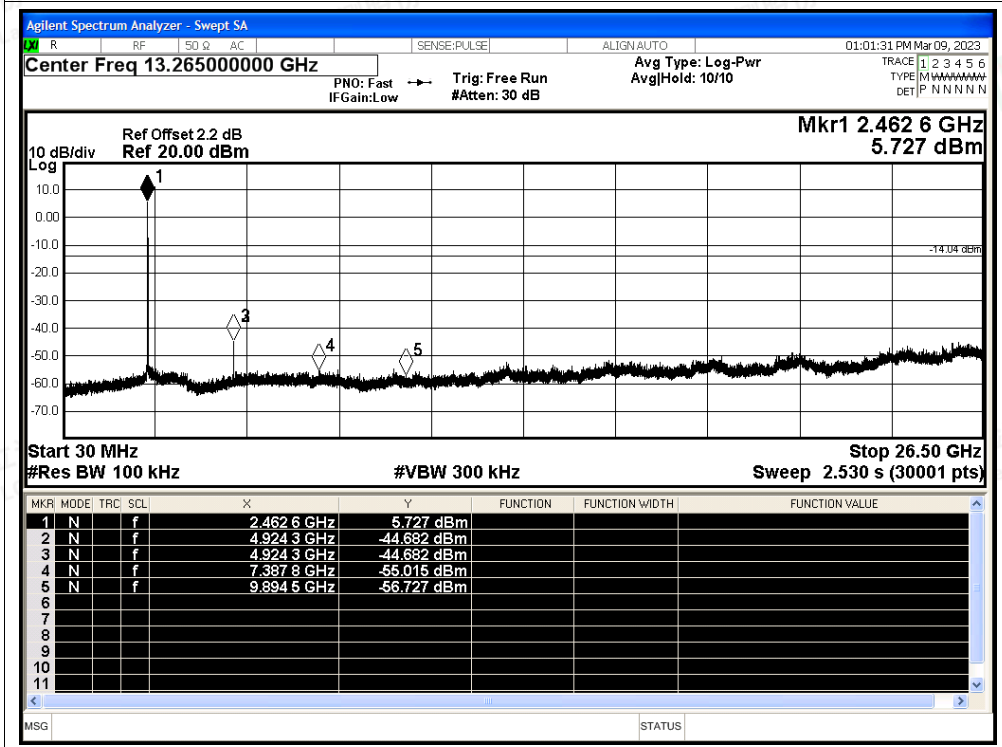




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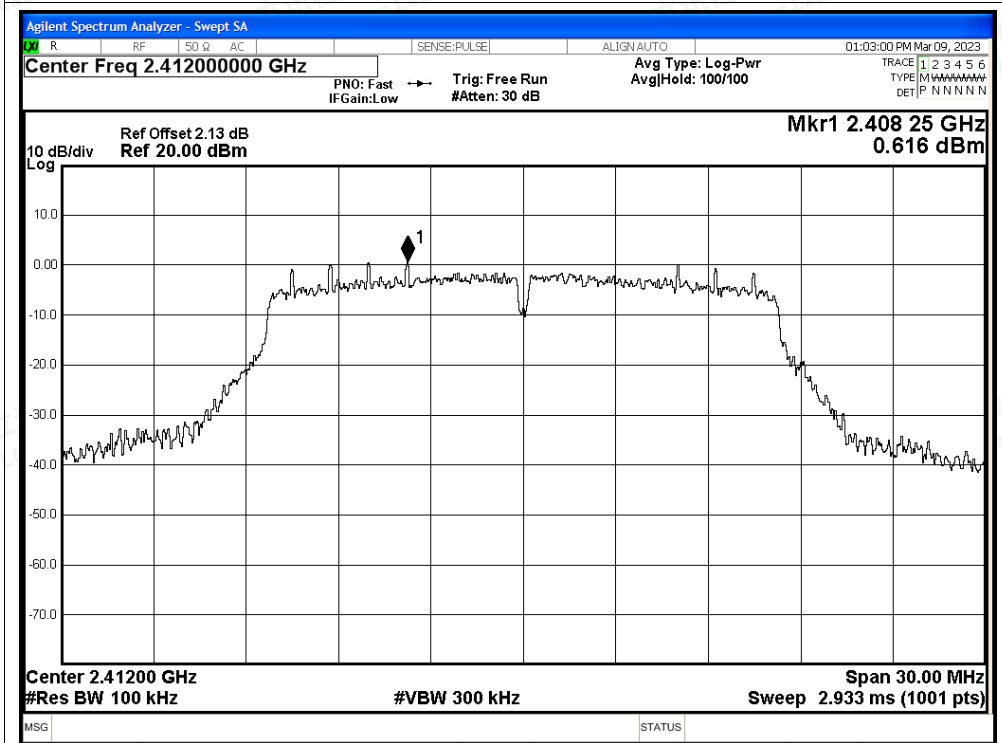


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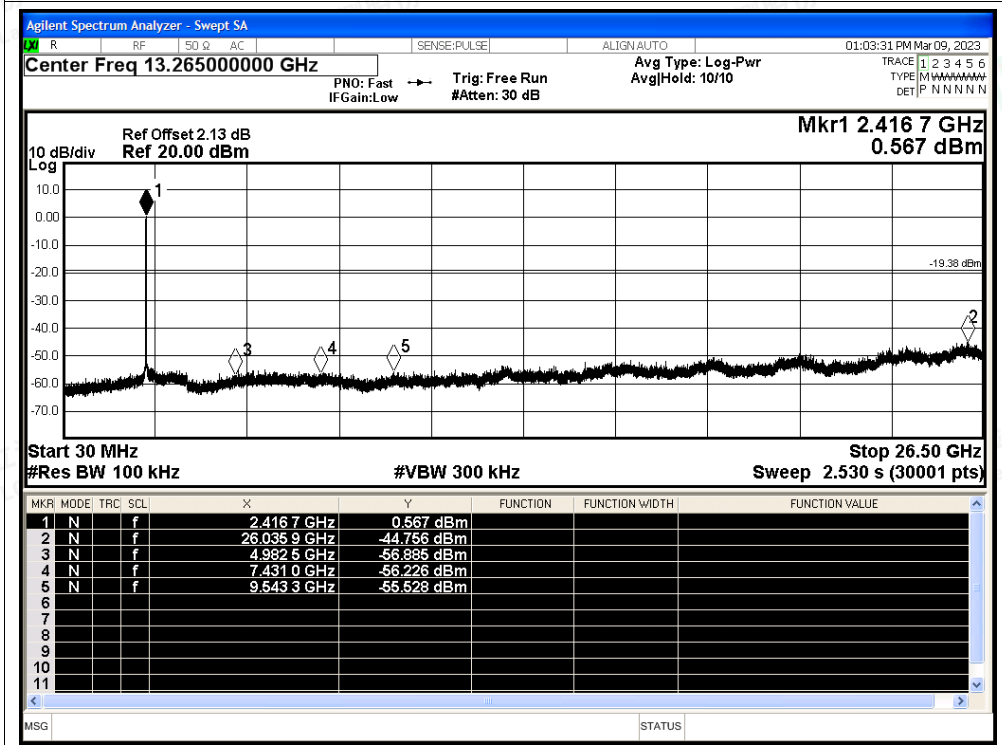




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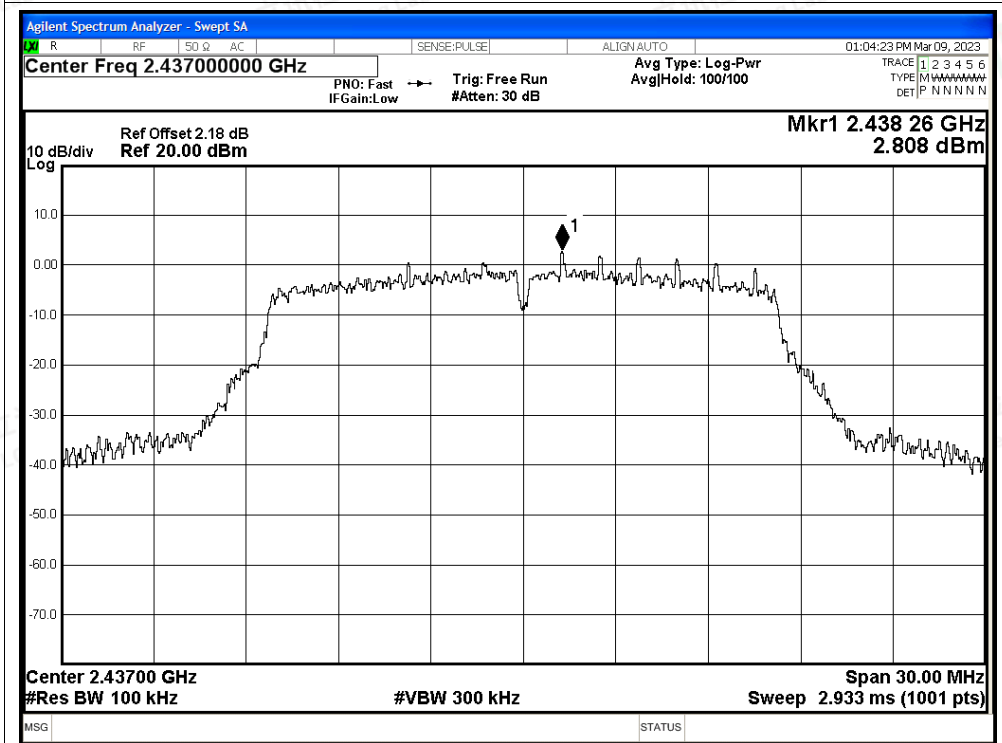


Tx. Spurious NVNT g 2412MHz Ant1 Emission

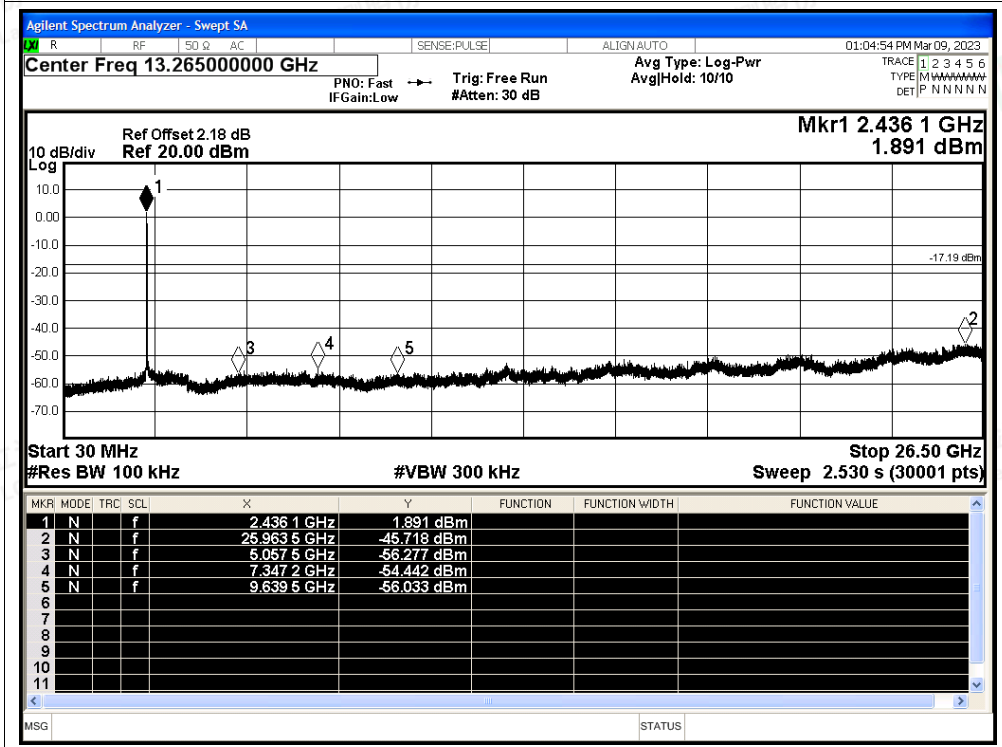




Tx. Spurious NVNT g 2437MHz Ant1 Ref

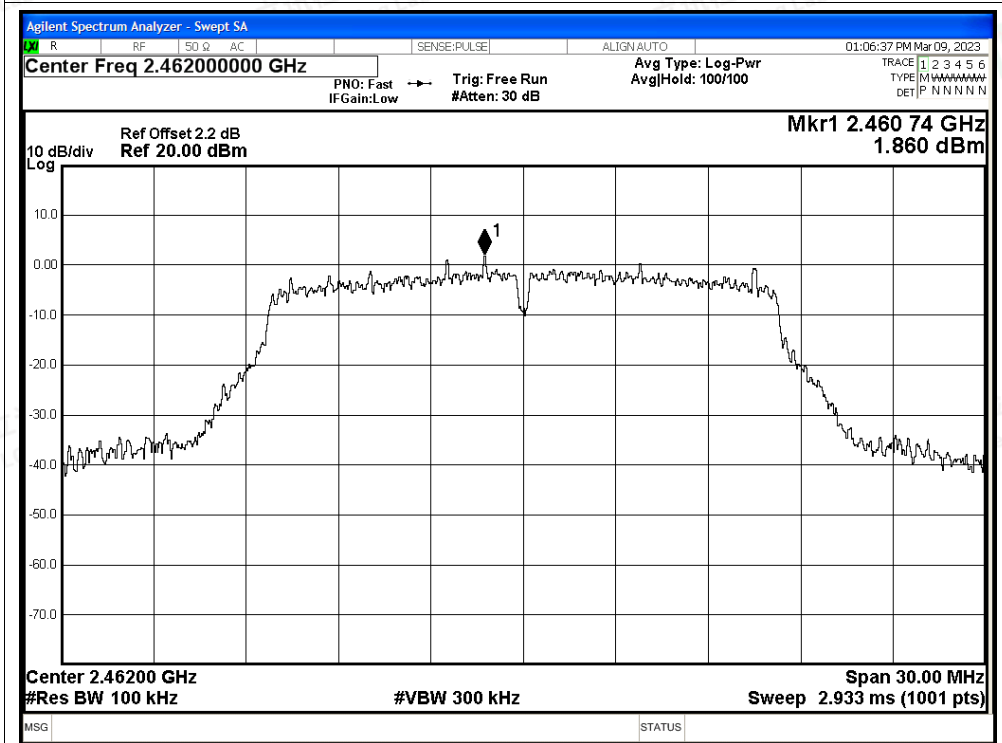


Tx. Spurious NVNT g 2437MHz Ant1 Emission

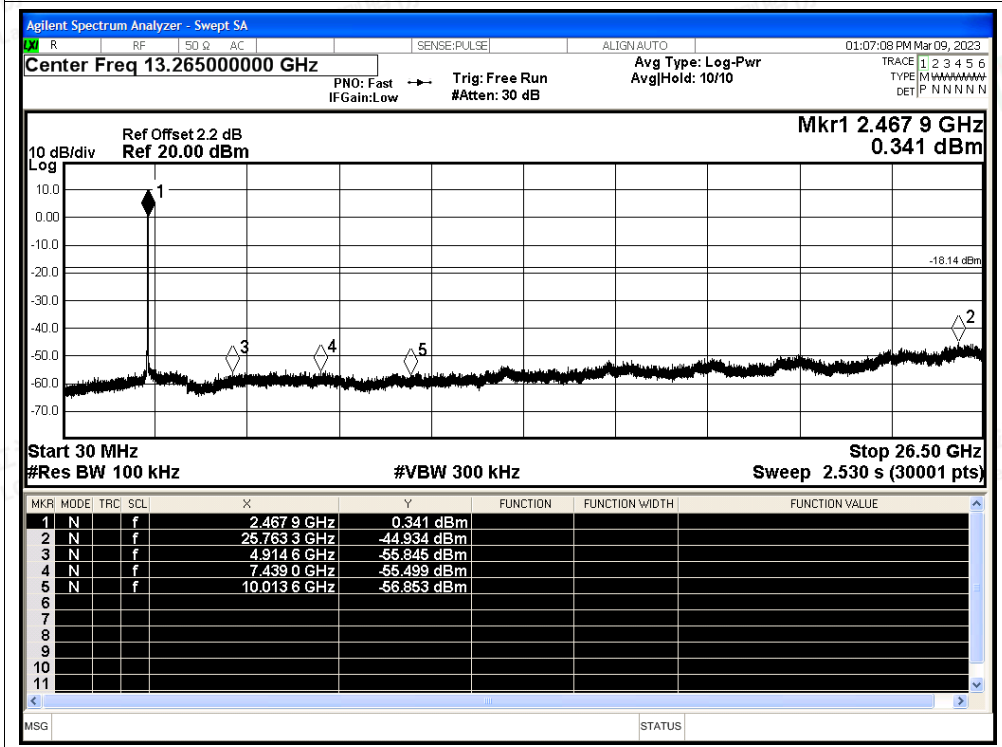




Tx. Spurious NVNT g 2462MHz Ant1 Ref

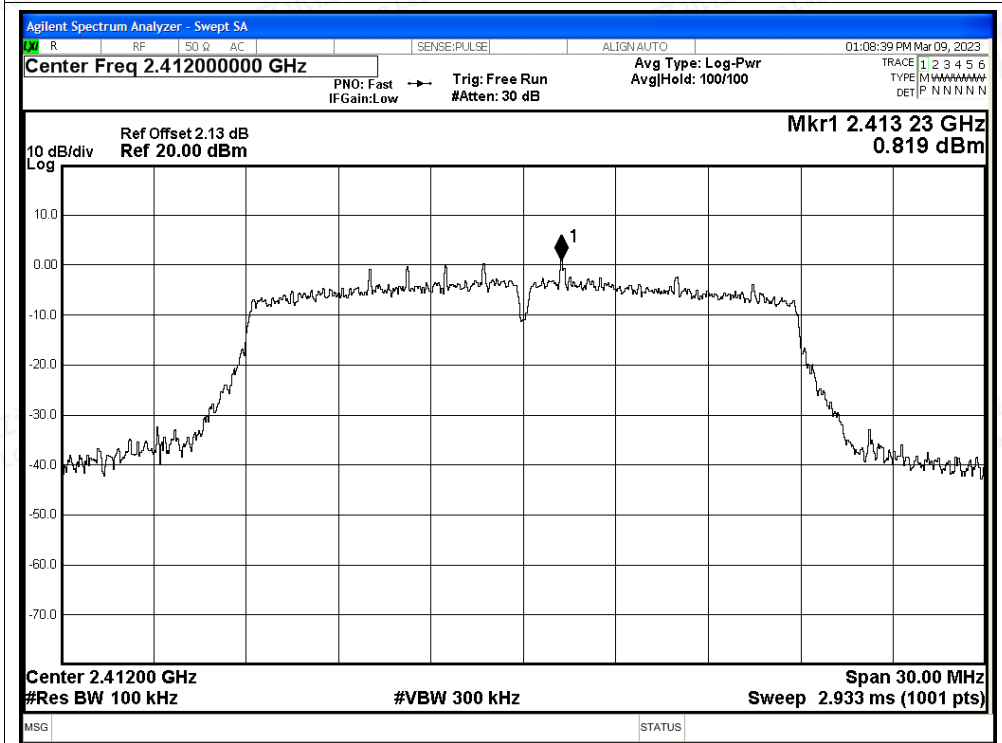


Tx. Spurious NVNT g 2462MHz Ant1 Emission

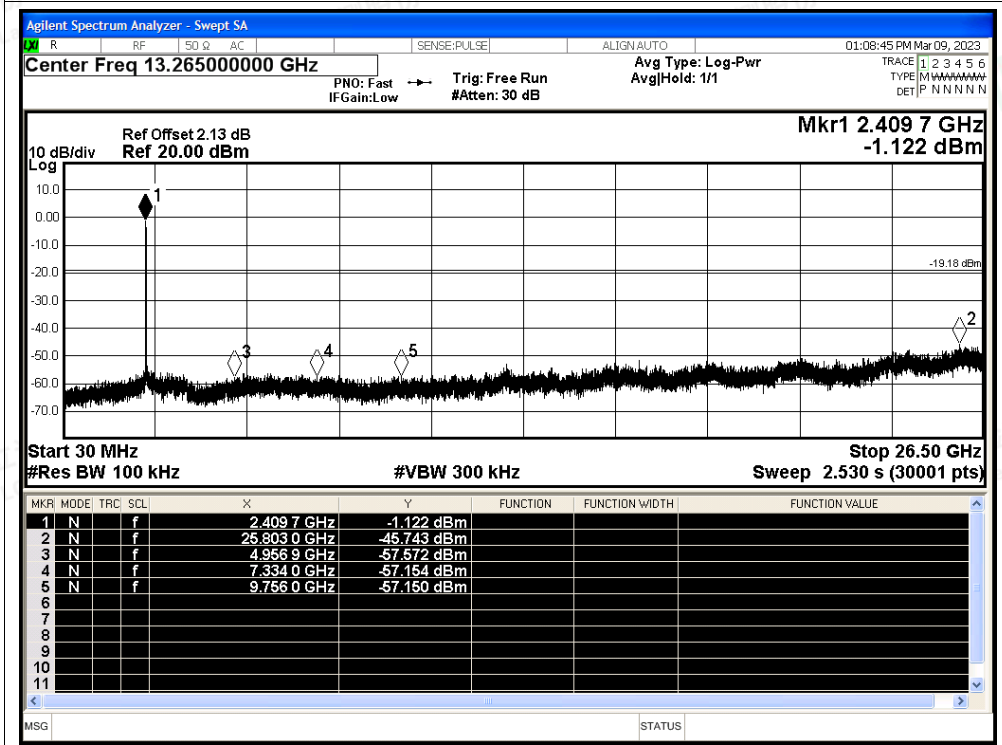




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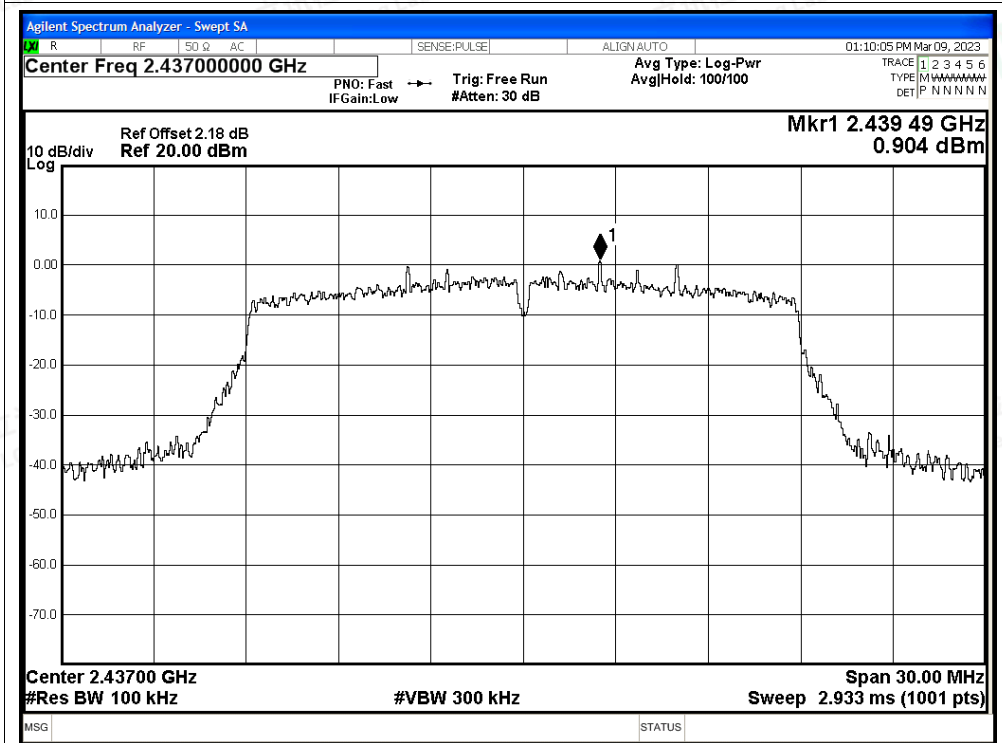


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

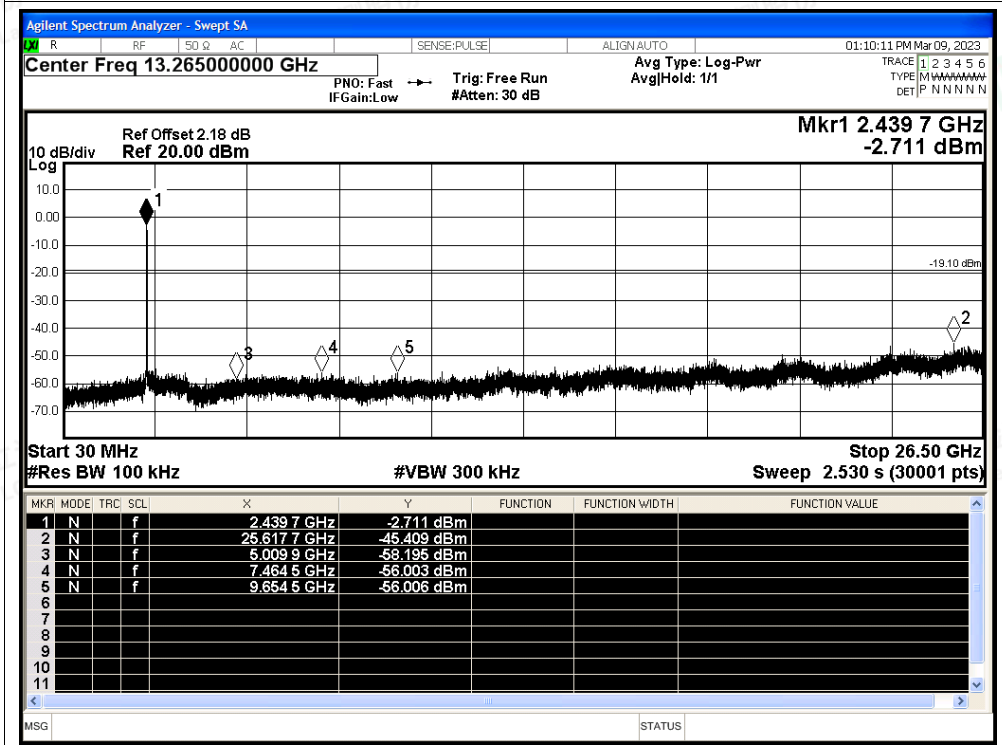




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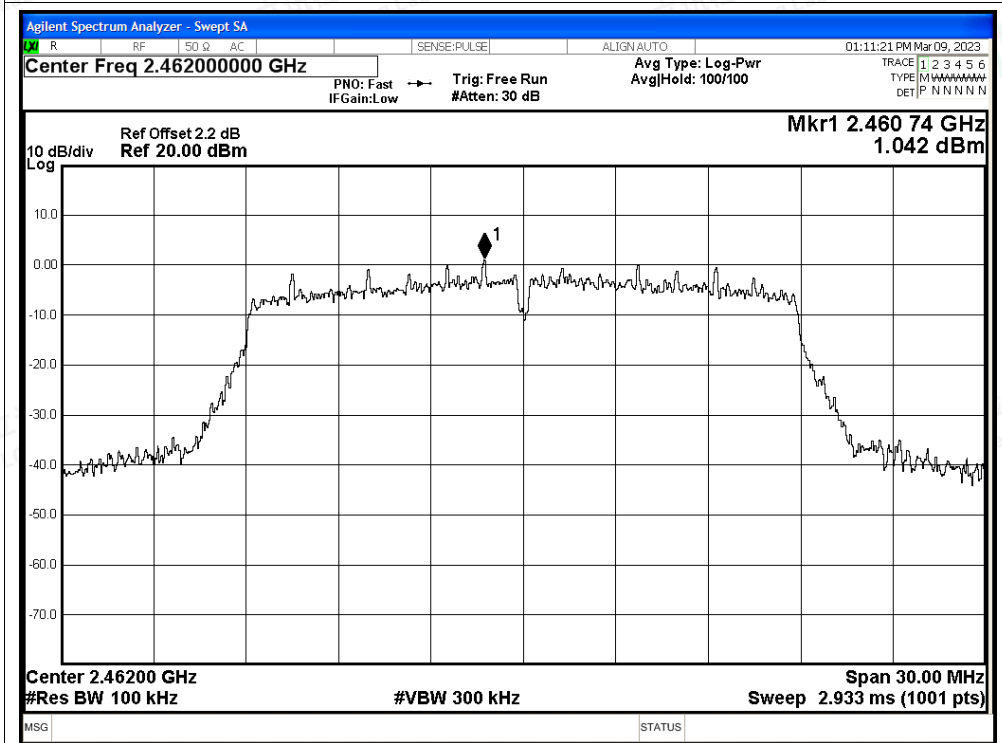


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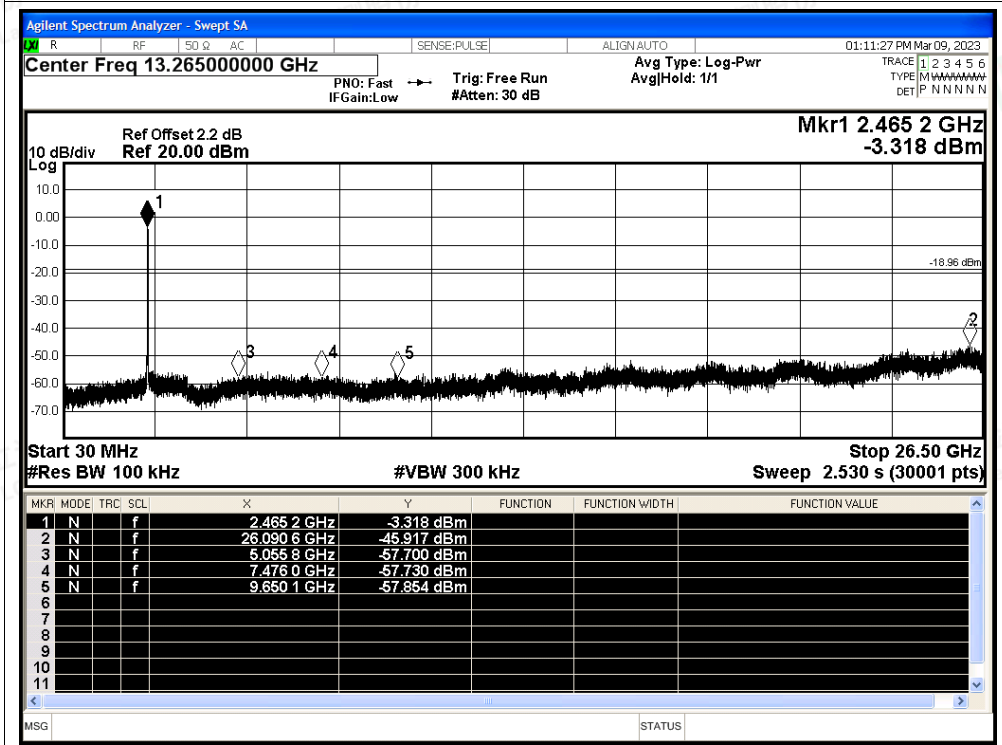




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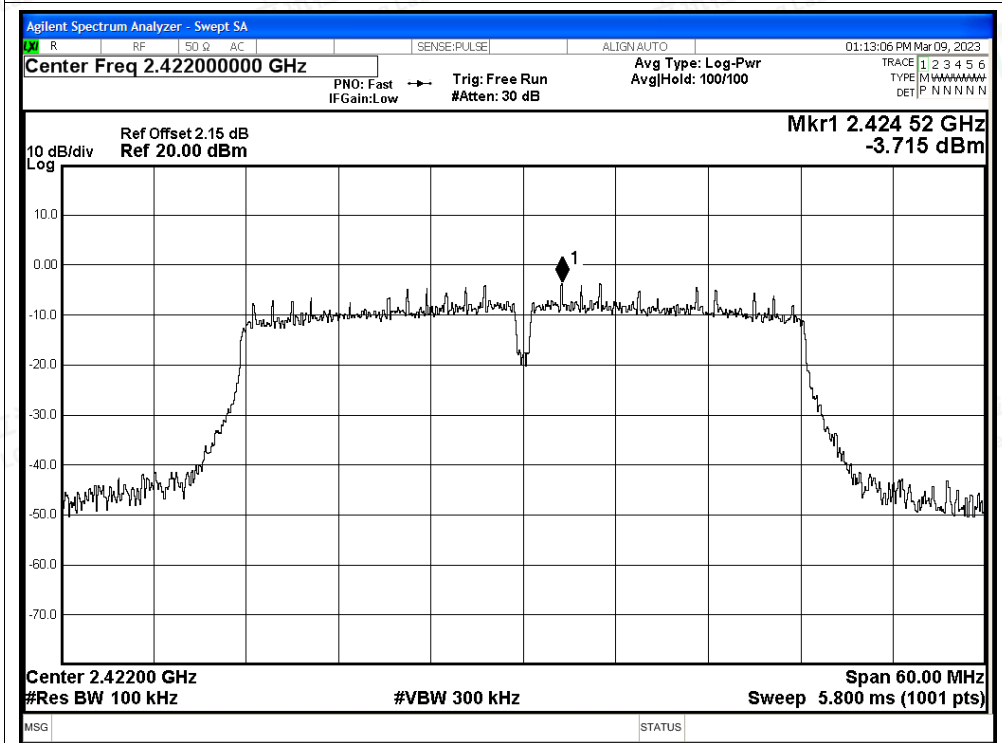


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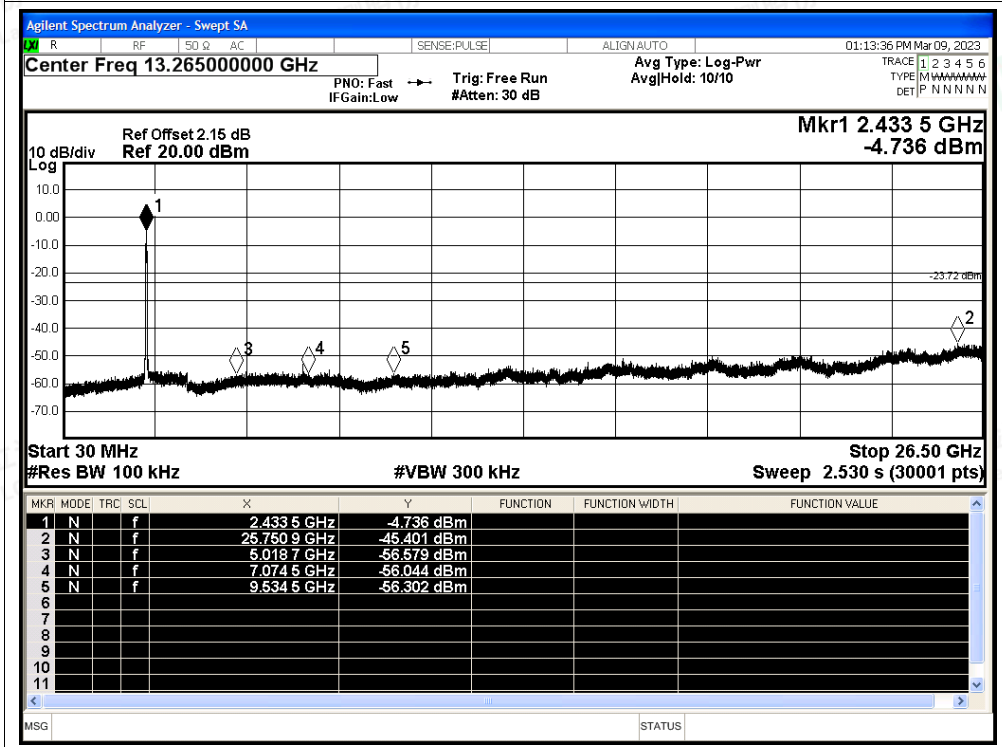




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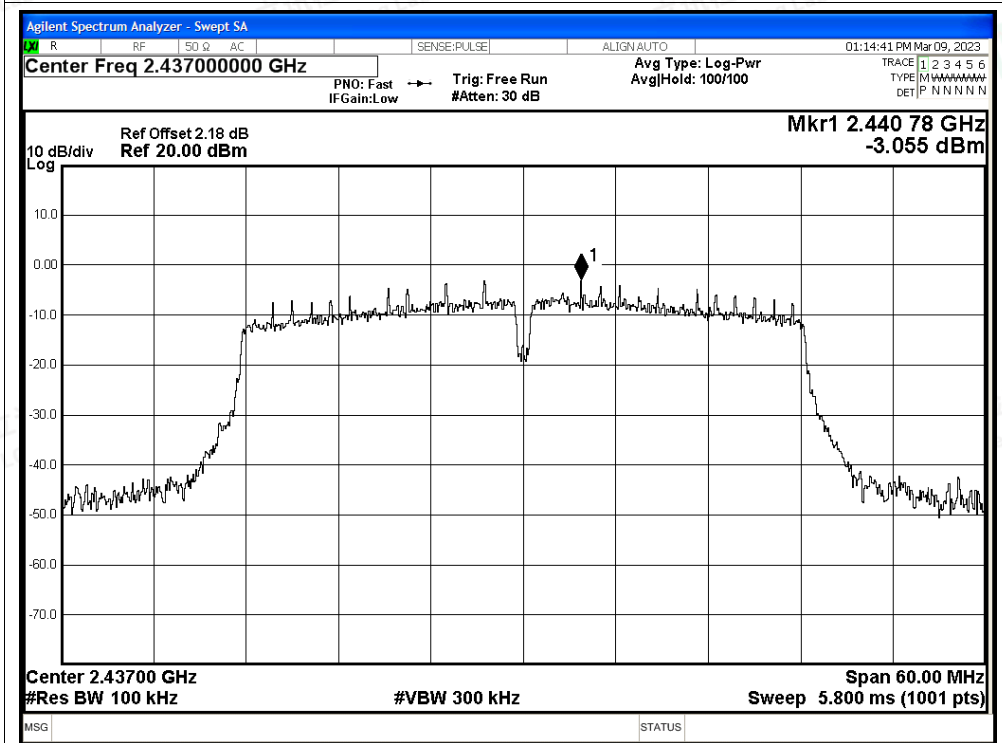


Tx. Spurious NVNT n40 2422MHz Ant1 Emission

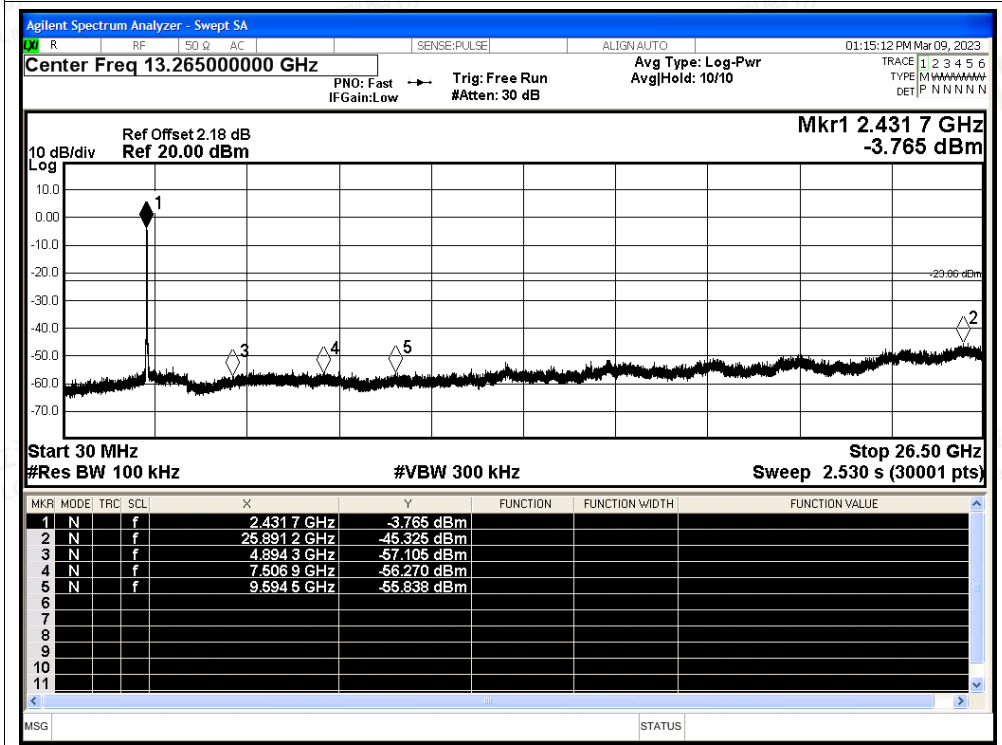




Tx. Spurious NVNT n40 2437MHz Ant1 Ref

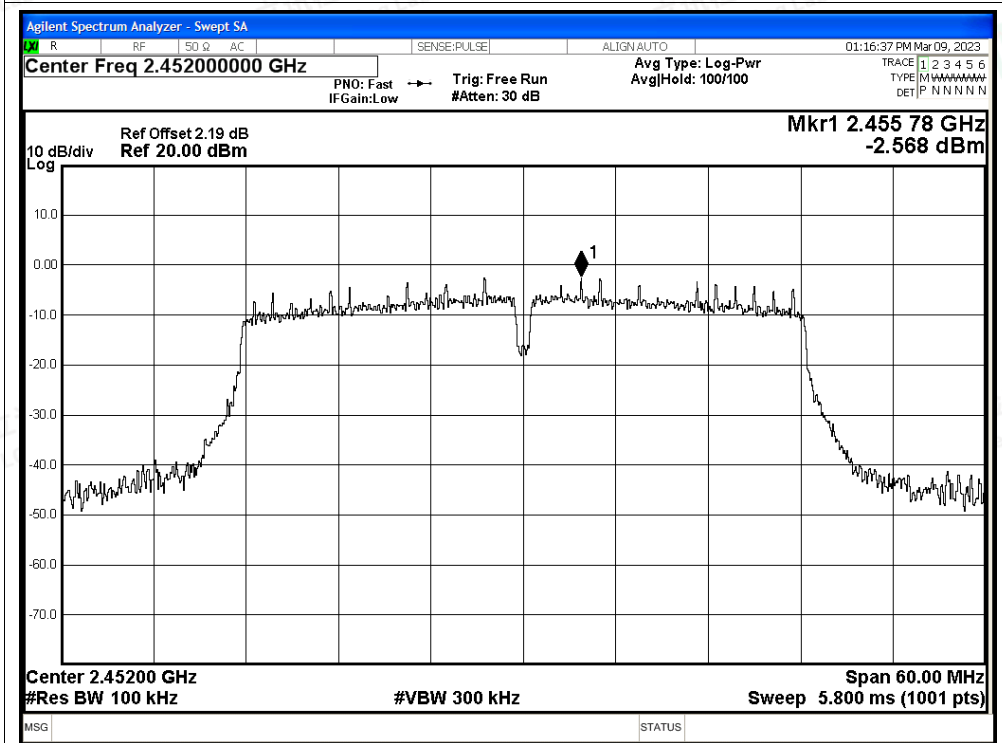


Tx. Spurious NVNT n40 2437MHz Ant1 Emission

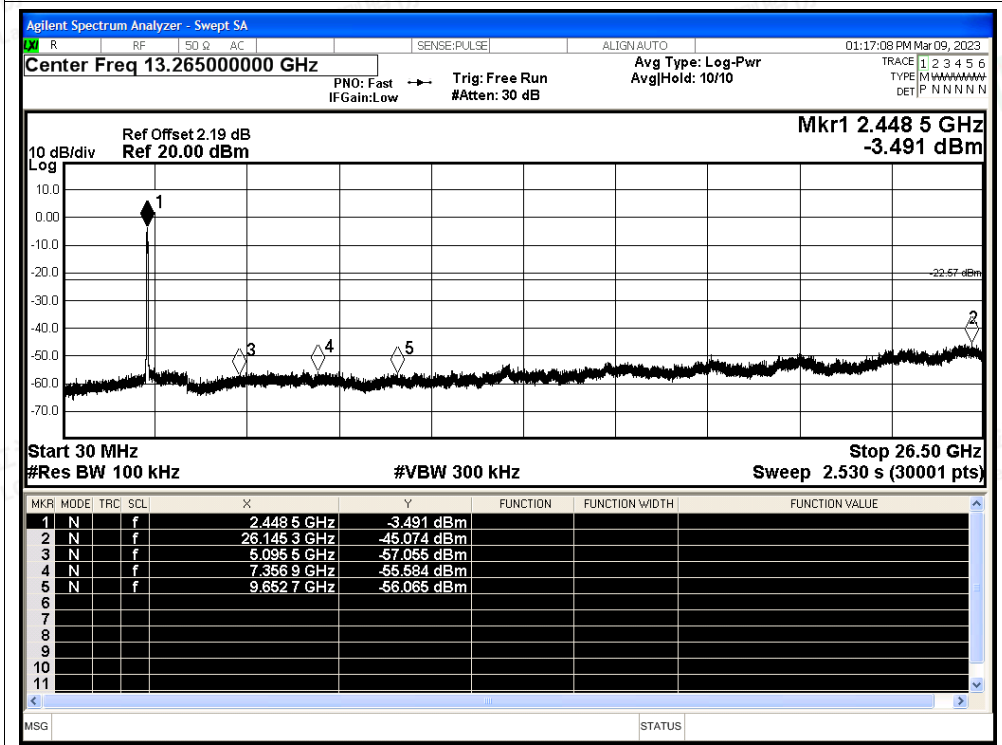




Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission





A.6 Duty Cycle

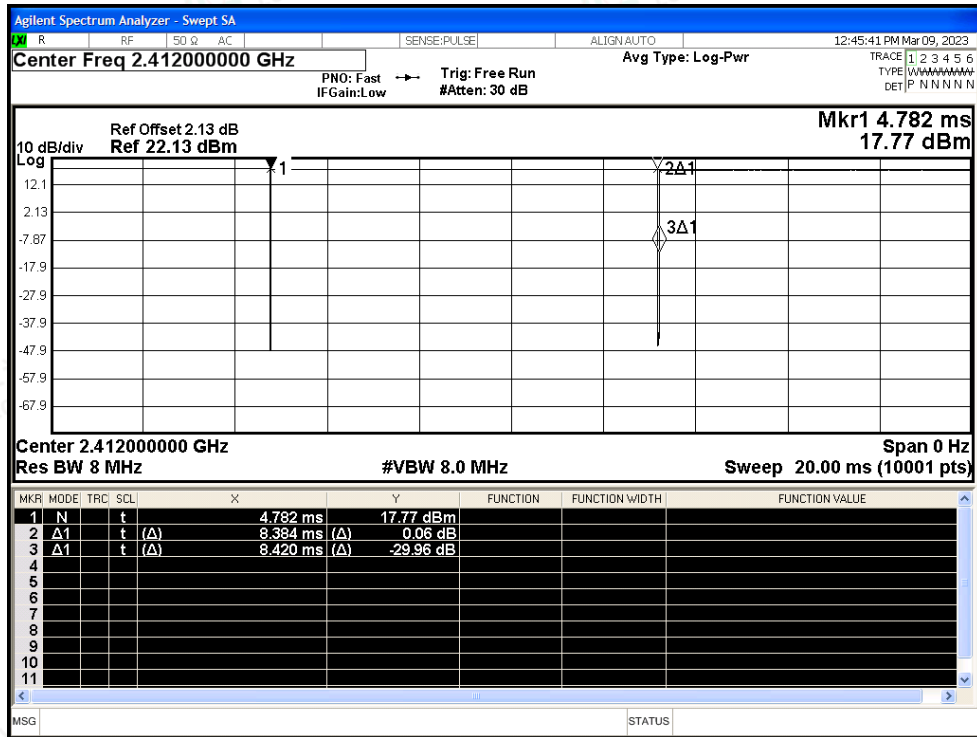
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.57	0	0.12
NVNT	b	2437	Ant1	99.55	0	0.12
NVNT	b	2462	Ant1	99.55	0	0.12
NVNT	g	2412	Ant1	96.94	0.13	0.72
NVNT	g	2437	Ant1	96.94	0.13	0.72
NVNT	g	2462	Ant1	97.08	0.13	0.72
NVNT	n20	2412	Ant1	96.73	0.14	0.77
NVNT	n20	2437	Ant1	96.73	0.14	0.77
NVNT	n20	2462	Ant1	96.73	0.14	0.77
NVNT	n40	2422	Ant1	93.64	0.29	1.54
NVNT	n40	2437	Ant1	93.64	0.29	1.54
NVNT	n40	2452	Ant1	93.64	0.29	1.54



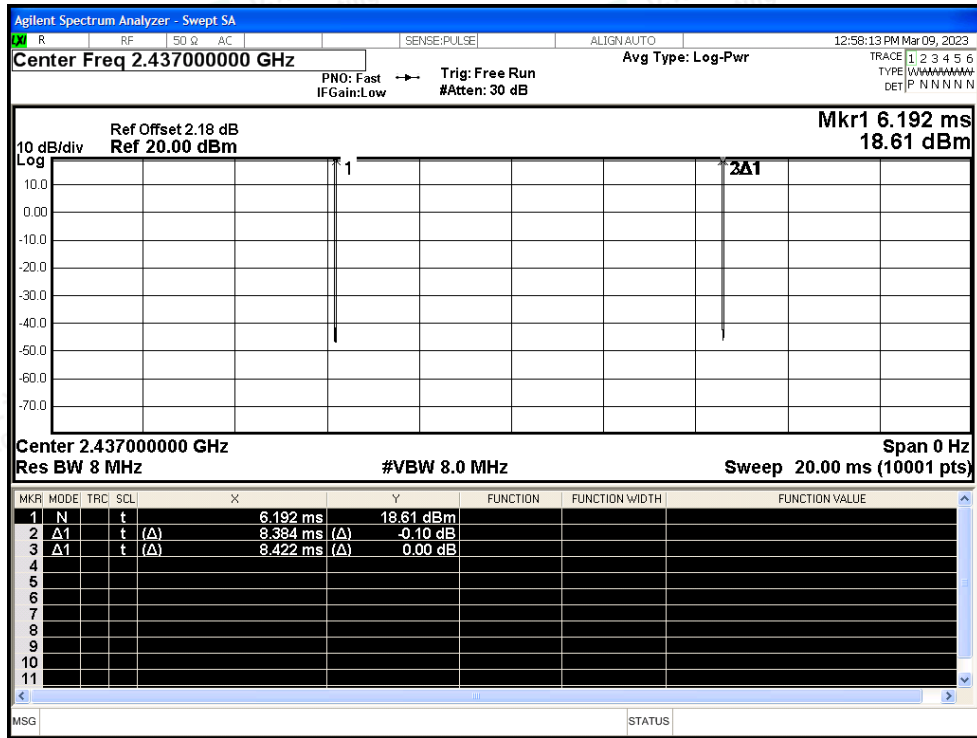


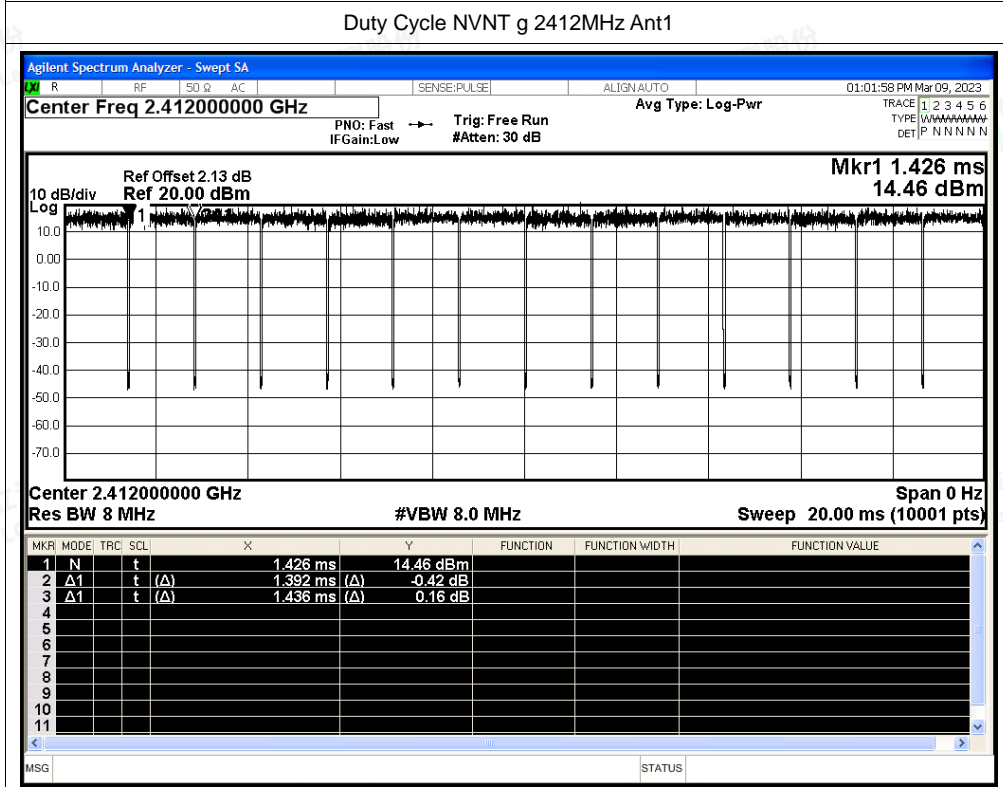
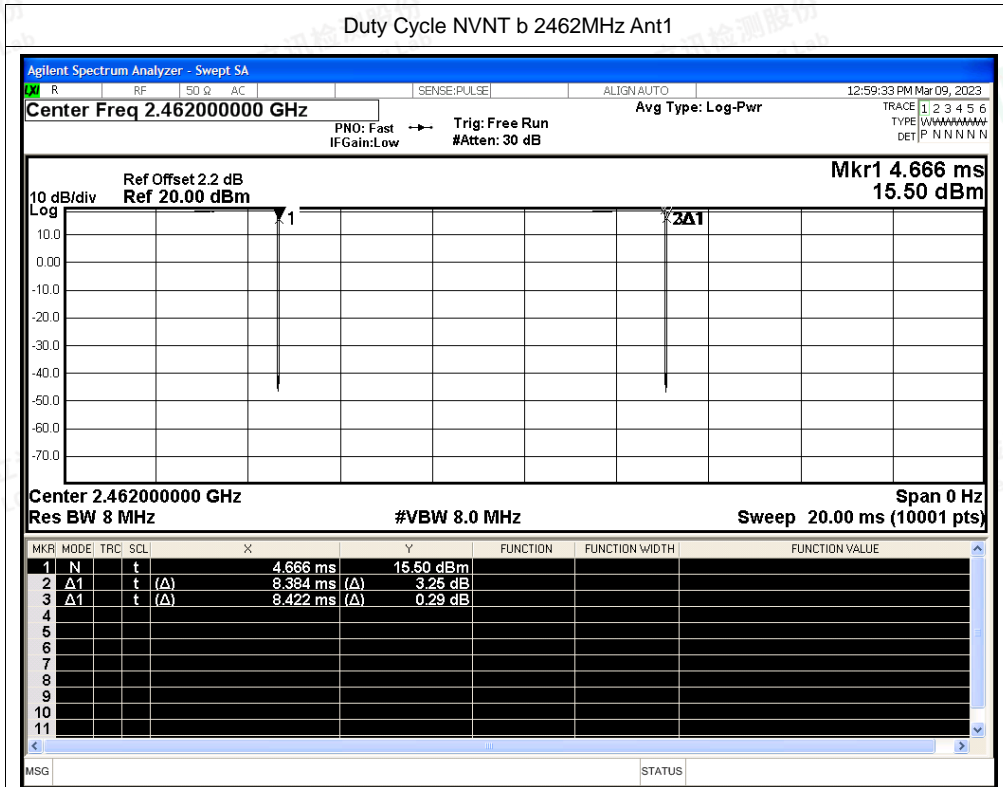
Test Graphs

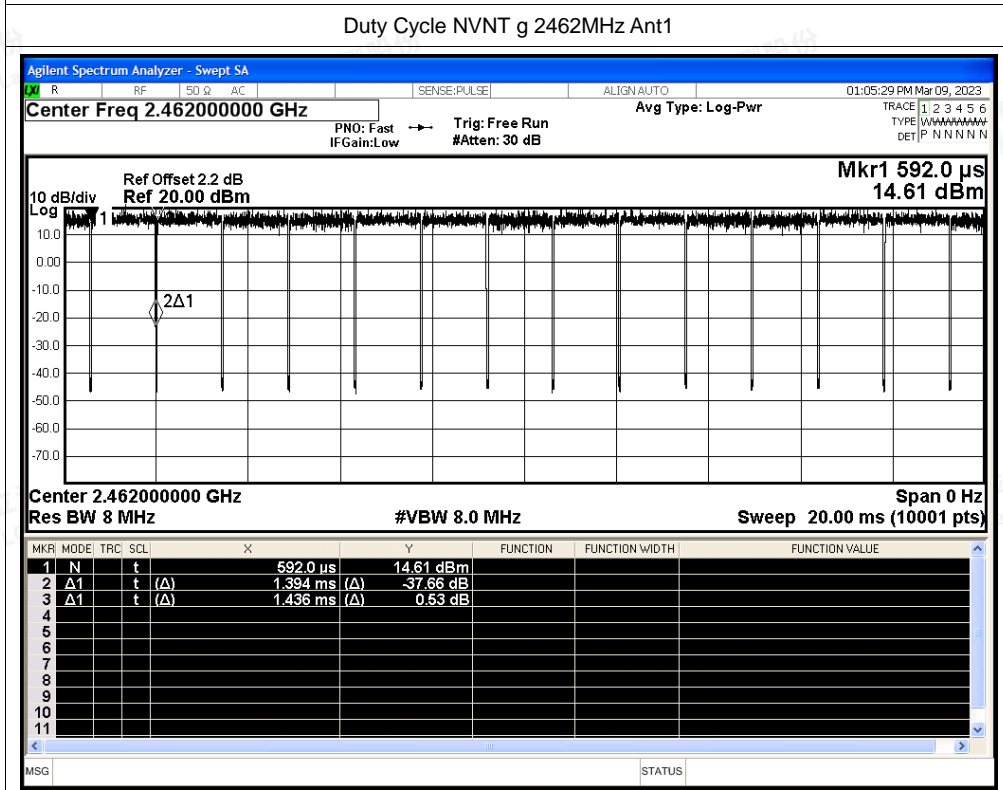
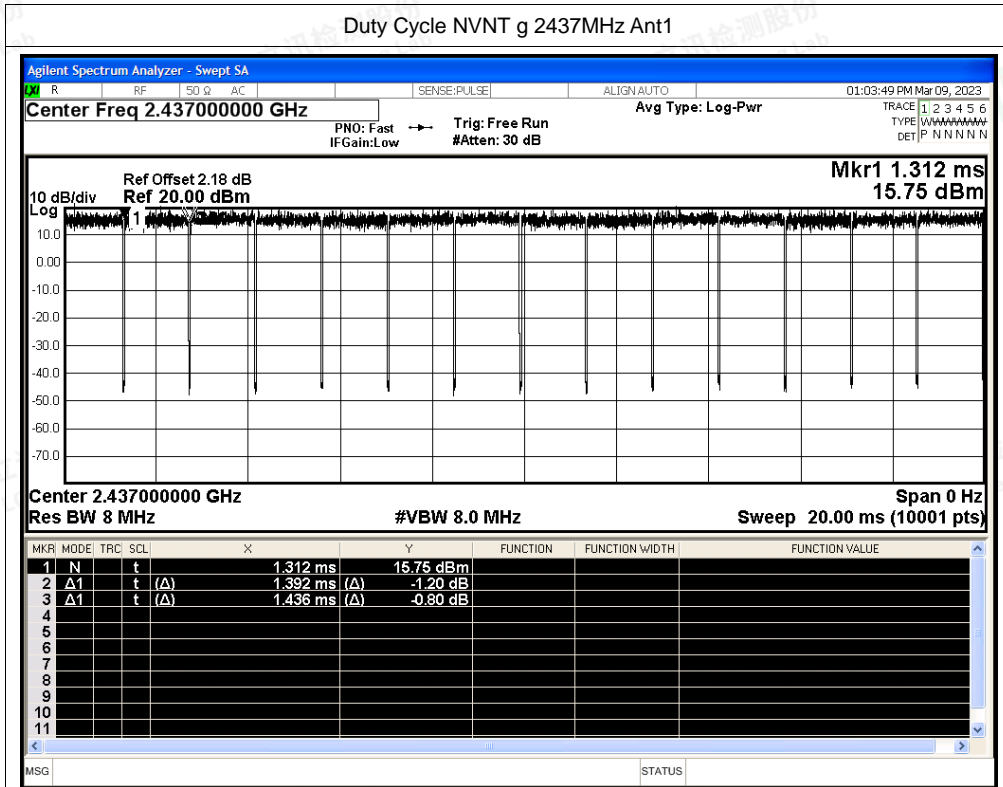
Duty Cycle NVNT b 2412MHz Ant1

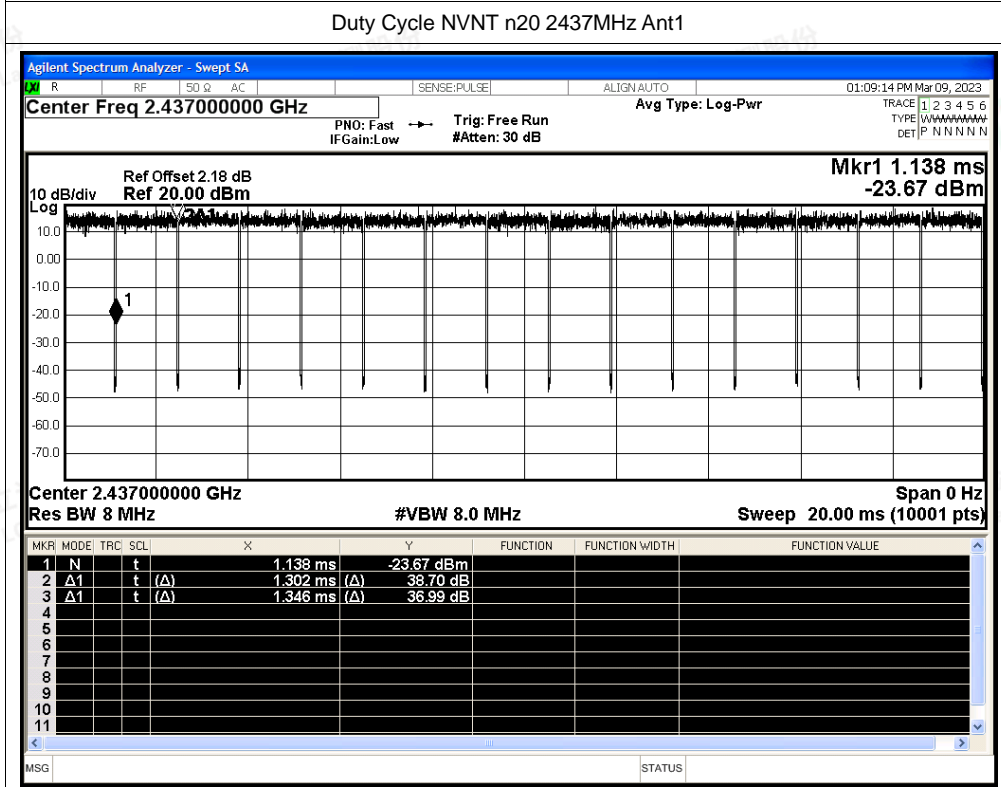
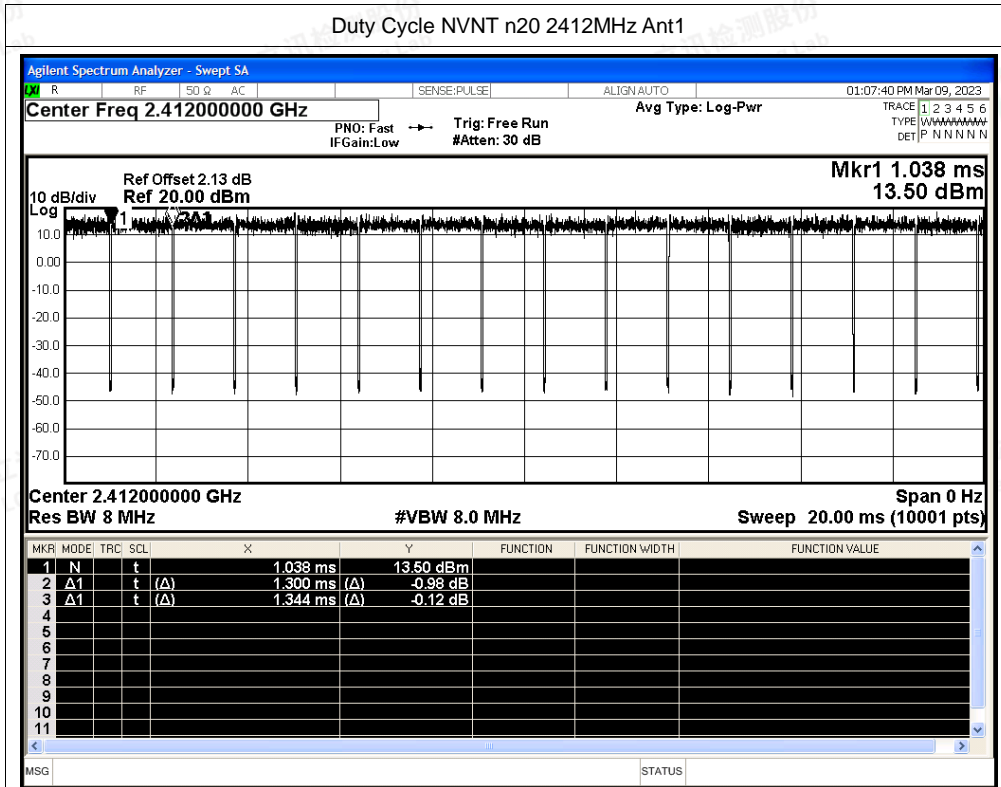


Duty Cycle NVNT b 2437MHz Ant1



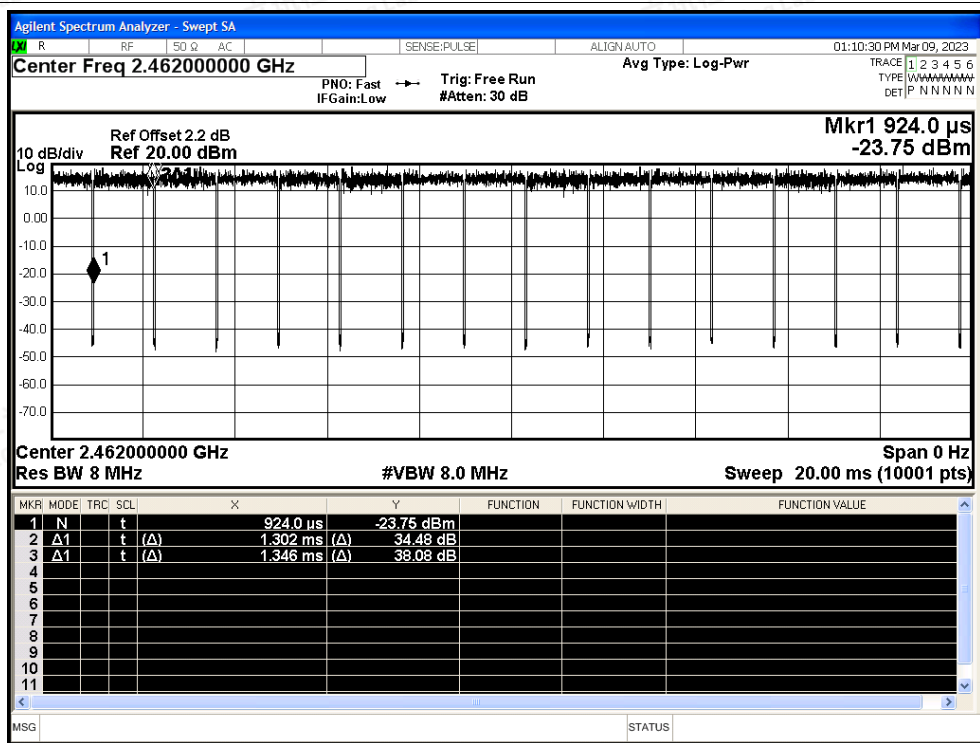




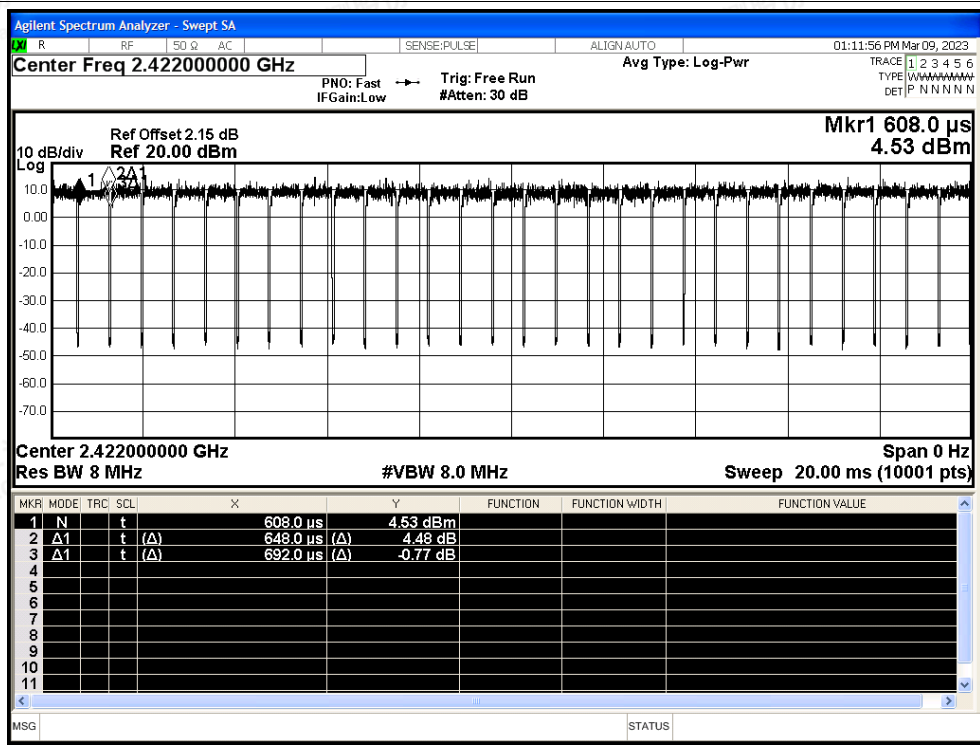


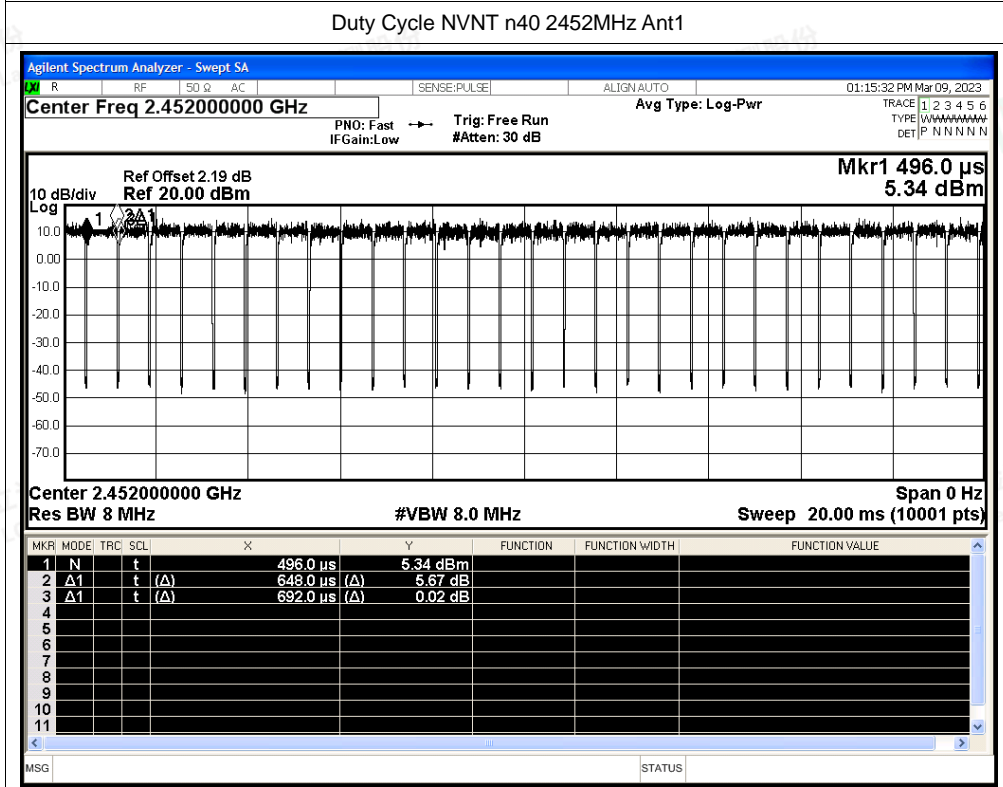
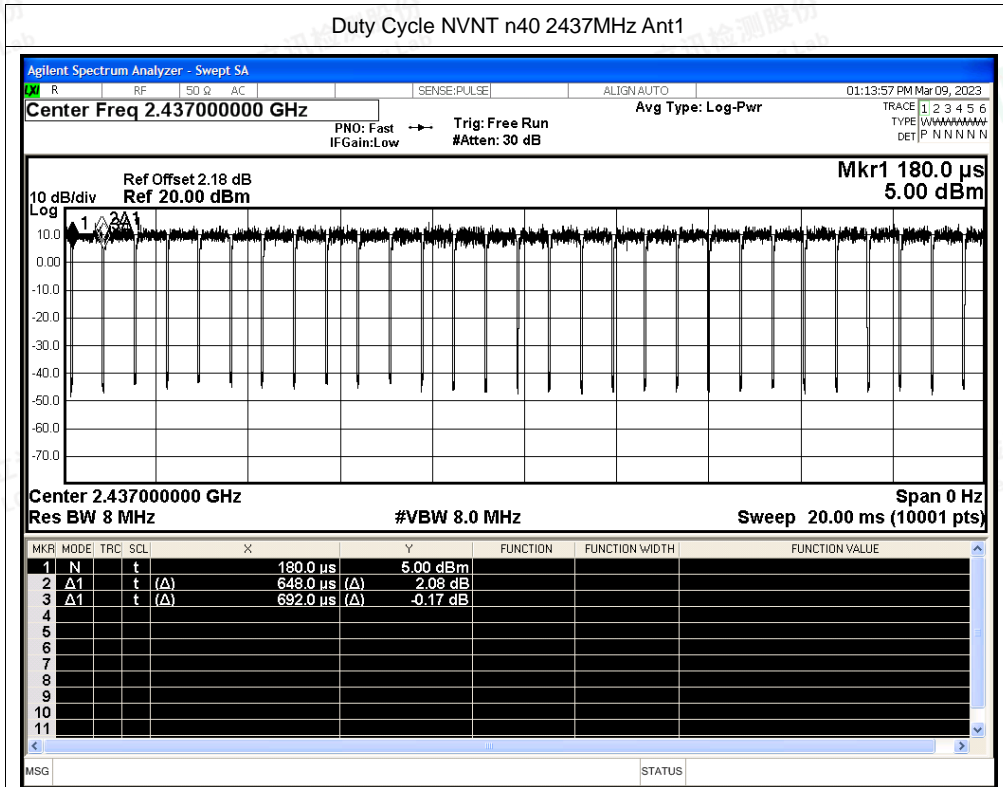


Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1







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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-50.41	2.18	47.00	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-59.63	2.18	37.78	Average	54	Pass
NVNT	b	2412	Ant1	2386.752	-44.41	2.18	53.00	Peak	74	Pass
NVNT	b	2412	Ant1	2386.167	-53.82	2.18	43.59	Average	54	Pass
NVNT	b	2412	Ant1	2390	-47.99	2.18	49.42	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-57.97	2.18	39.44	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-45.12	2.18	52.29	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-56.16	2.18	41.25	Average	54	Pass
NVNT	b	2462	Ant1	2486.962	-42.68	2.18	54.73	Peak	74	Pass
NVNT	b	2462	Ant1	2488.075	-55.18	2.18	42.23	Average	54	Pass
NVNT	b	2462	Ant1	2500	-47.6	2.18	49.81	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-56.73	2.18	40.68	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.08	2.18	47.33	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-59.1	2.18	38.31	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-35.5	2.18	61.91	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-51.12	2.18	46.29	Average	54	Pass
NVNT	g	2412	Ant1	2390	-35.81	2.18	61.60	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-50.72	2.18	46.69	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-36.79	2.18	60.62	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-50.13	2.18	47.28	Average	54	Pass
NVNT	g	2462	Ant1	2483.517	-36.79	2.18	60.62	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-50.13	2.18	47.28	Average	54	Pass
NVNT	g	2462	Ant1	2500	-44.48	2.18	52.93	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-55.15	2.18	42.26	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-48.47	2.18	48.94	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-59.1	2.18	38.31	Average	54	Pass
NVNT	n20	2412	Ant1	2387.922	-36.79	2.18	60.62	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-50.82	2.18	46.59	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-38.1	2.18	59.31	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-50.67	2.18	46.74	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-39.15	2.18	58.26	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-50.9	2.18	46.51	Average	54	Pass
NVNT	n20	2462	Ant1	2484.418	-37.08	2.18	60.33	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.517	-50.9	2.18	46.51	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-46.88	2.18	50.53	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-56.06	2.18	41.35	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-49.27	2.18	48.14	Peak	74	Pass





NVNT	n40	2422	Ant1	2310	-59.12	2.18	38.29	Average	54	Pass
NVNT	n40	2422	Ant1	2389.946	-31.57	2.18	65.84	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.946	-49.58	2.18	47.83	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-31.57	2.18	65.84	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-49.58	2.18	47.83	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-28.18	2.18	69.23	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-48.21	2.18	49.20	Average	54	Pass
NVNT	n40	2452	Ant1	2484.4	-27.79	2.18	69.62	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.854	-47.85	2.18	49.56	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-42.87	2.18	54.54	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-54.96	2.18	42.45	Average	54	Pass

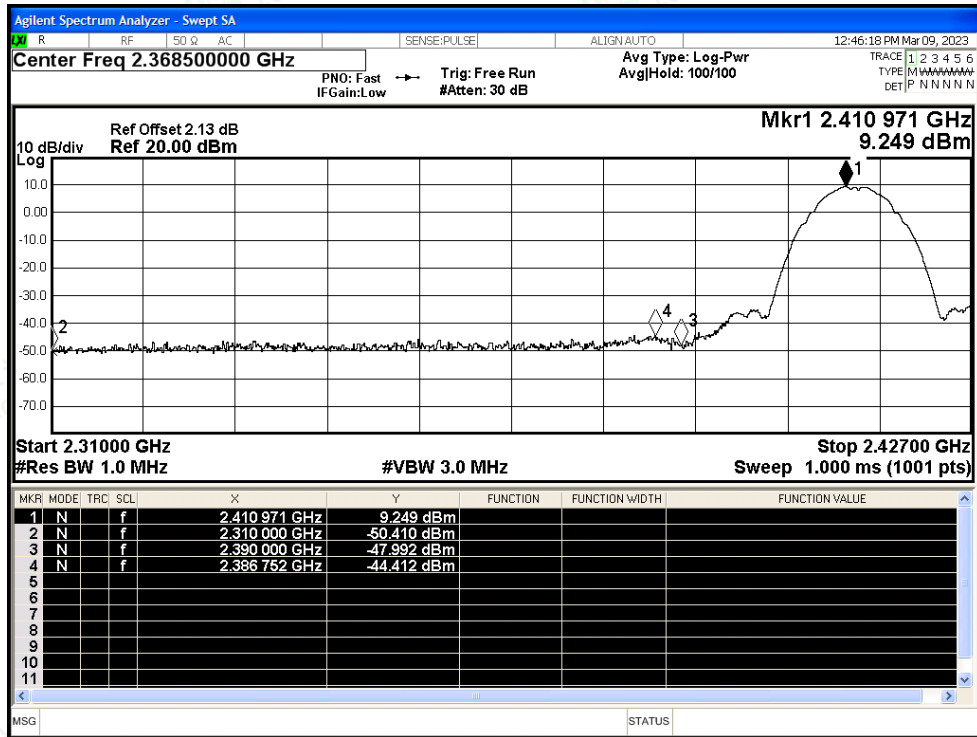


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 Scan code to check authenticity

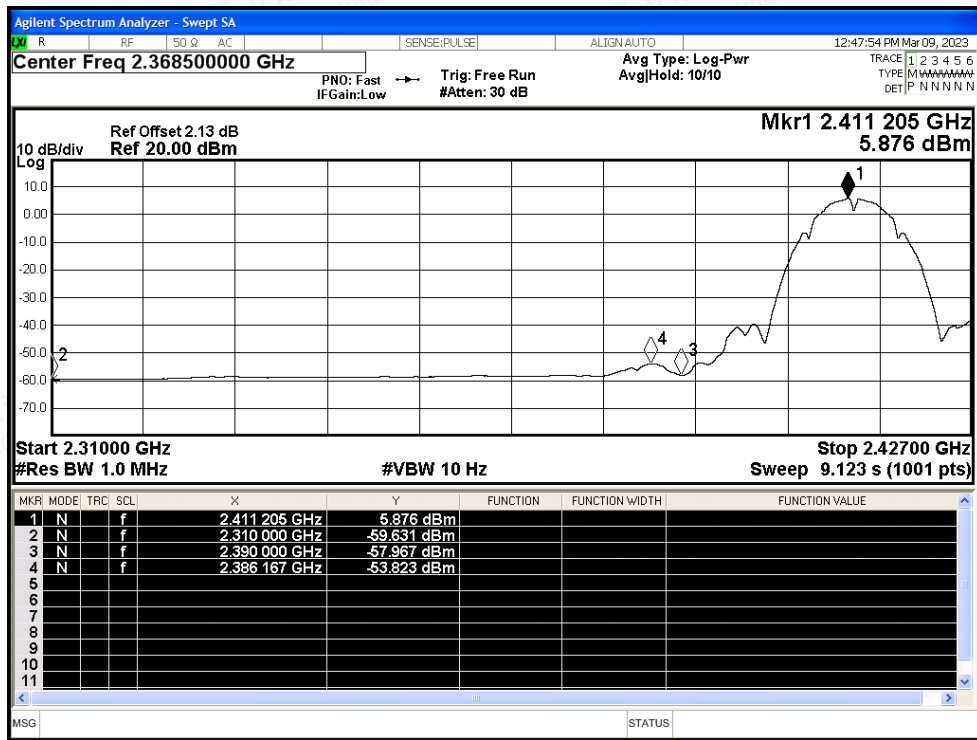


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak

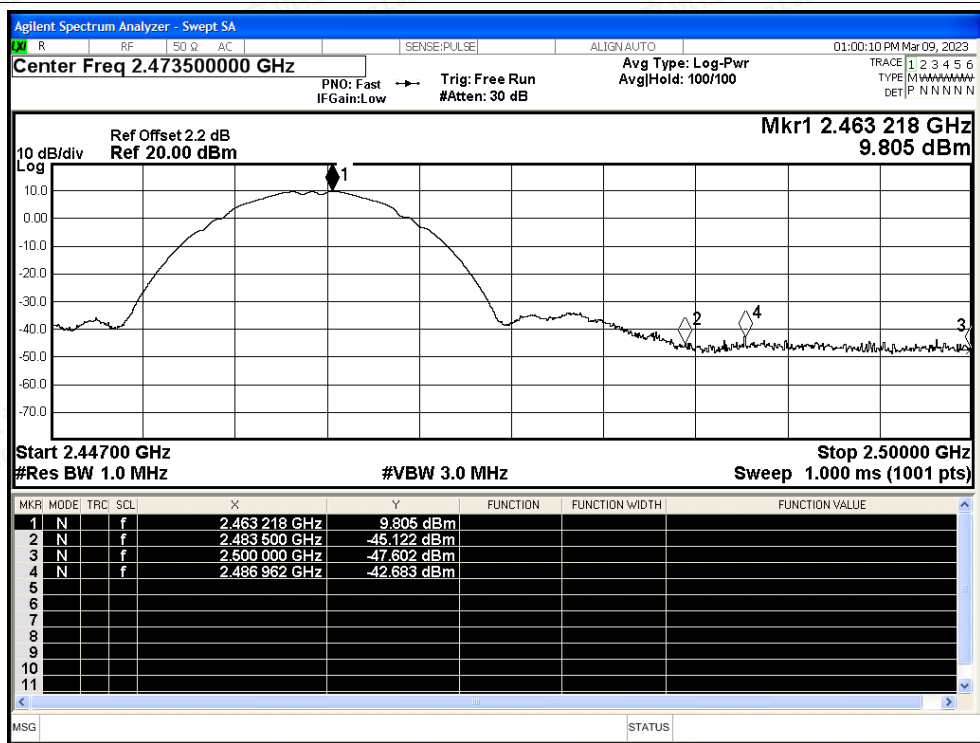


Restrict Band NVNT b 2412MHz Ant1 Average

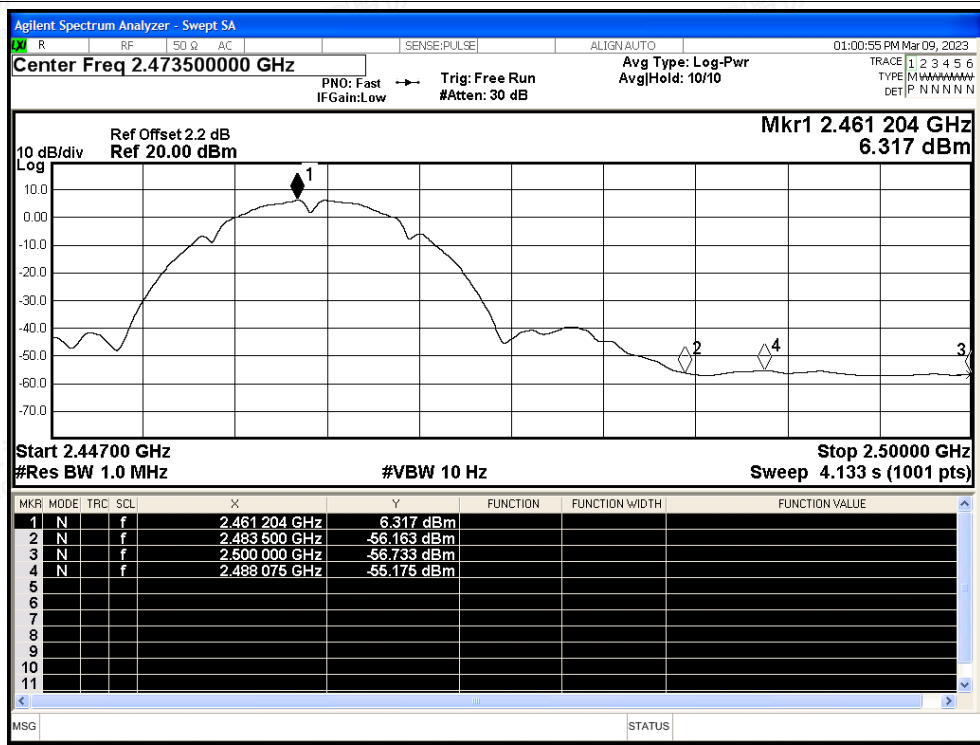




Restrict Band NVNT b 2462MHz Ant1 Peak

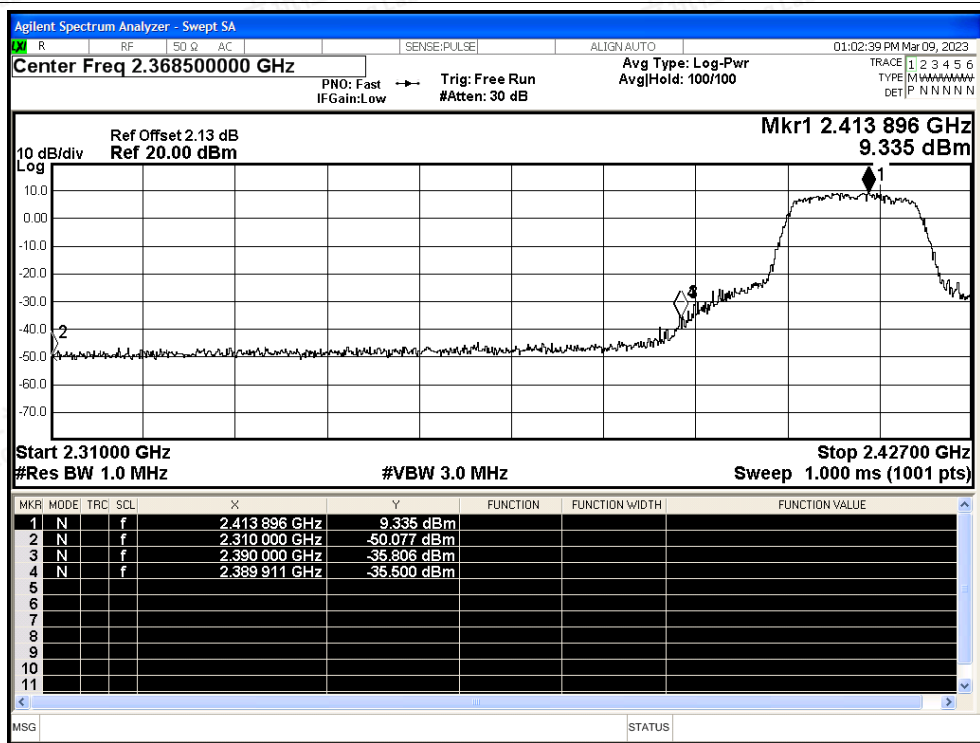


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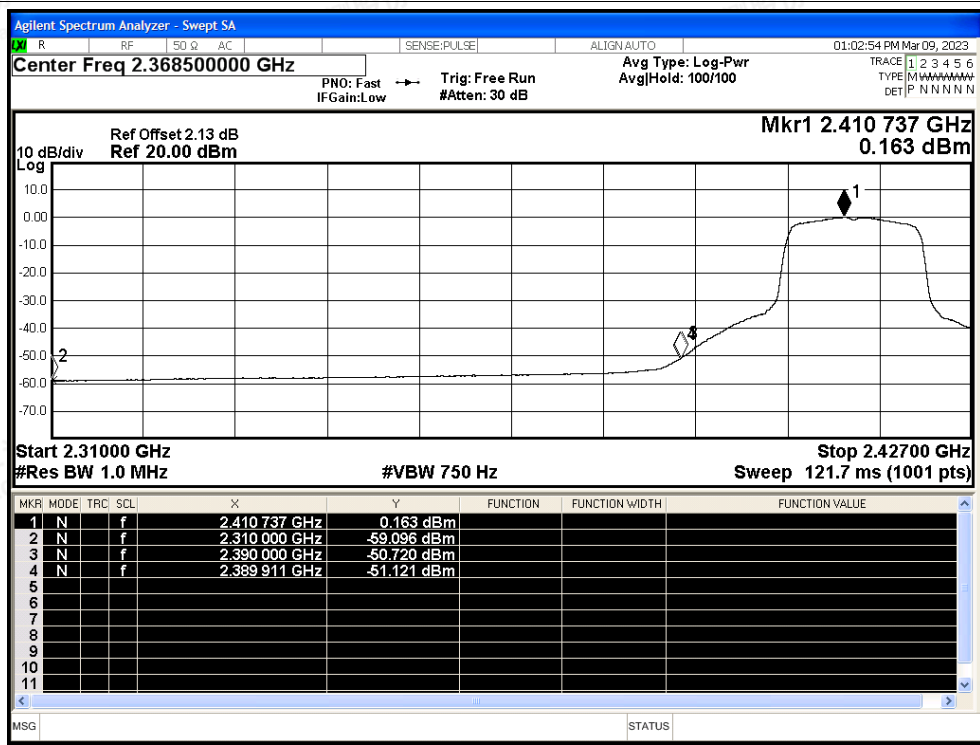




Restrict Band NVNT g 2412MHz Ant1 Peak

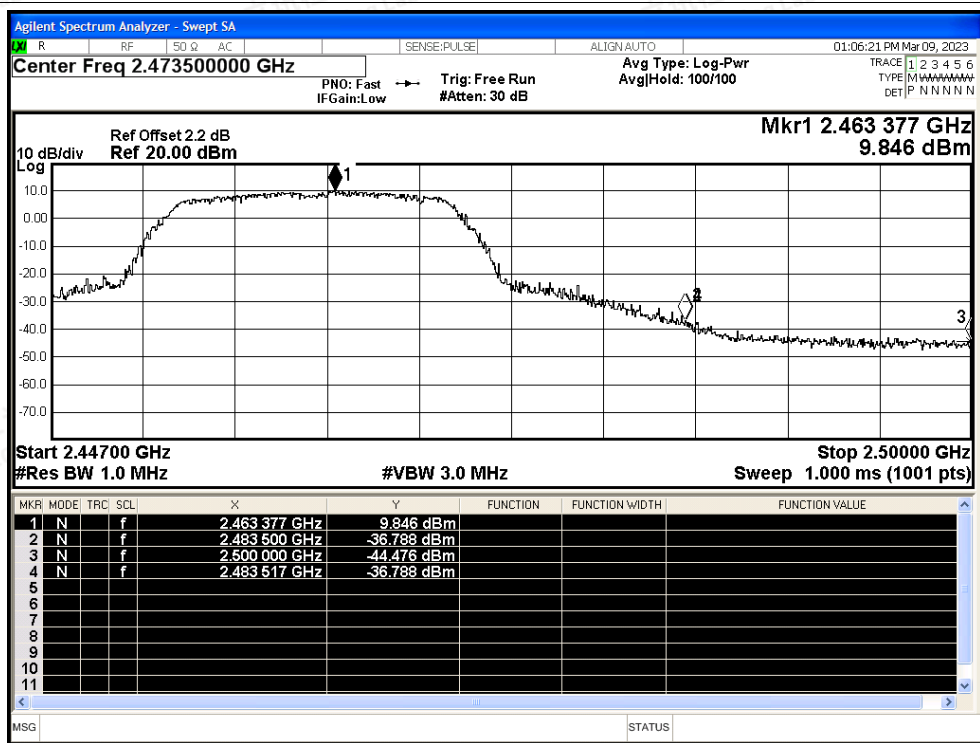


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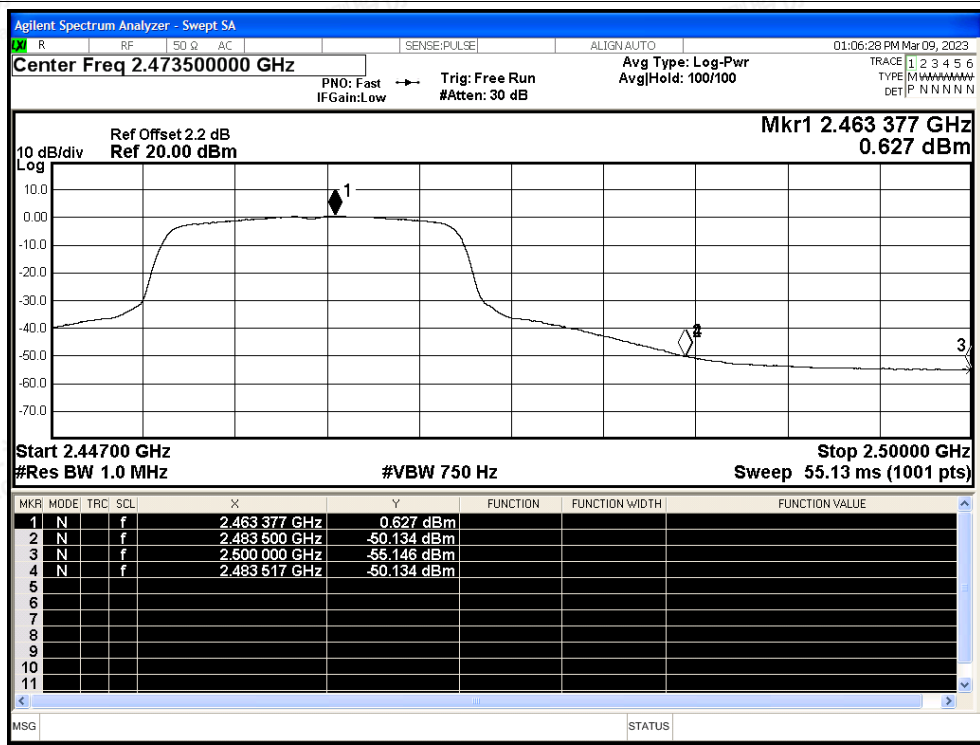




Restrict Band NVNT g 2462MHz Ant1 Peak

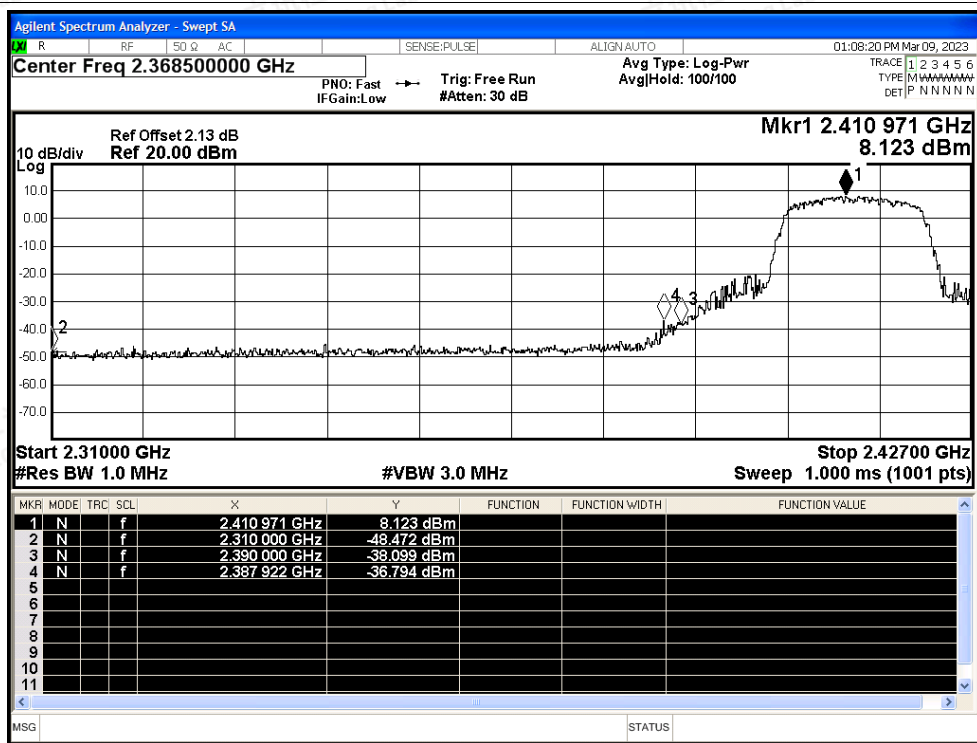


Restrict Band NVNT g 2462MHz Ant1 Average

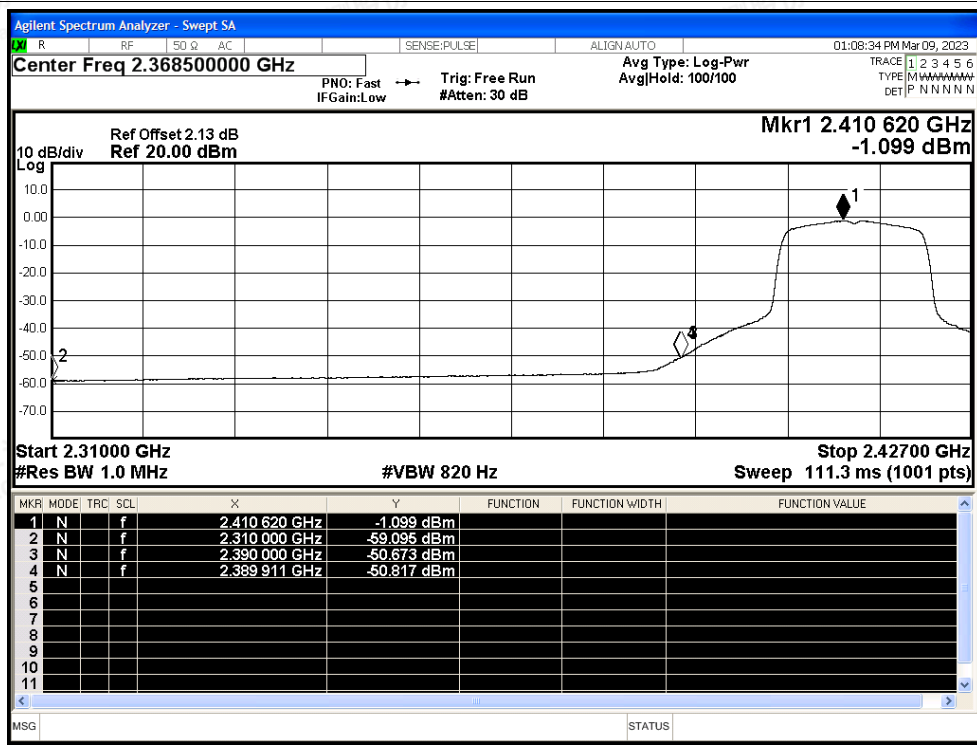




Restrict Band NVNT n20 2412MHz Ant1 Peak

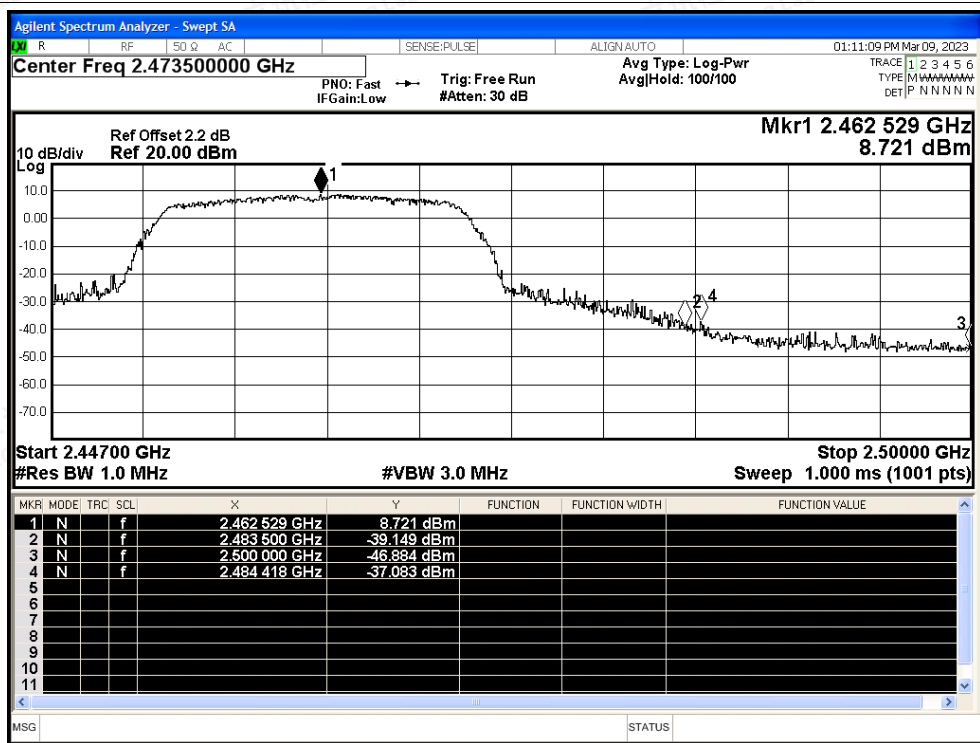


Restrict Band NVNT n20 2412MHz Ant1 Average

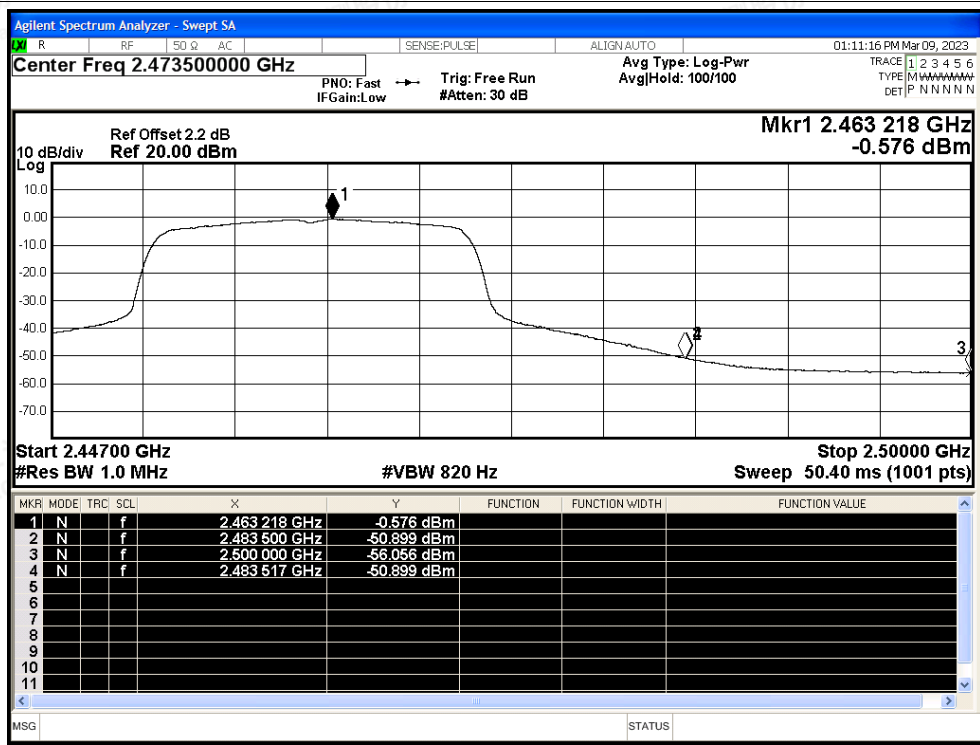




Restrict Band NVNT n20 2462MHz Ant1 Peak

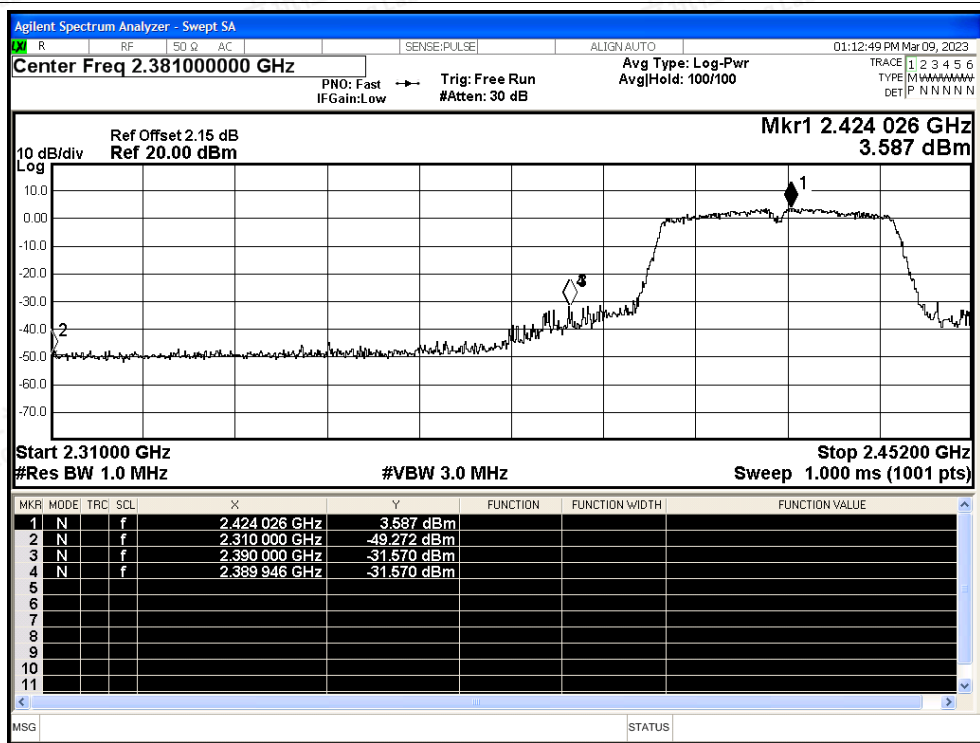


Restrict Band NVNT n20 2462MHz Ant1 Average

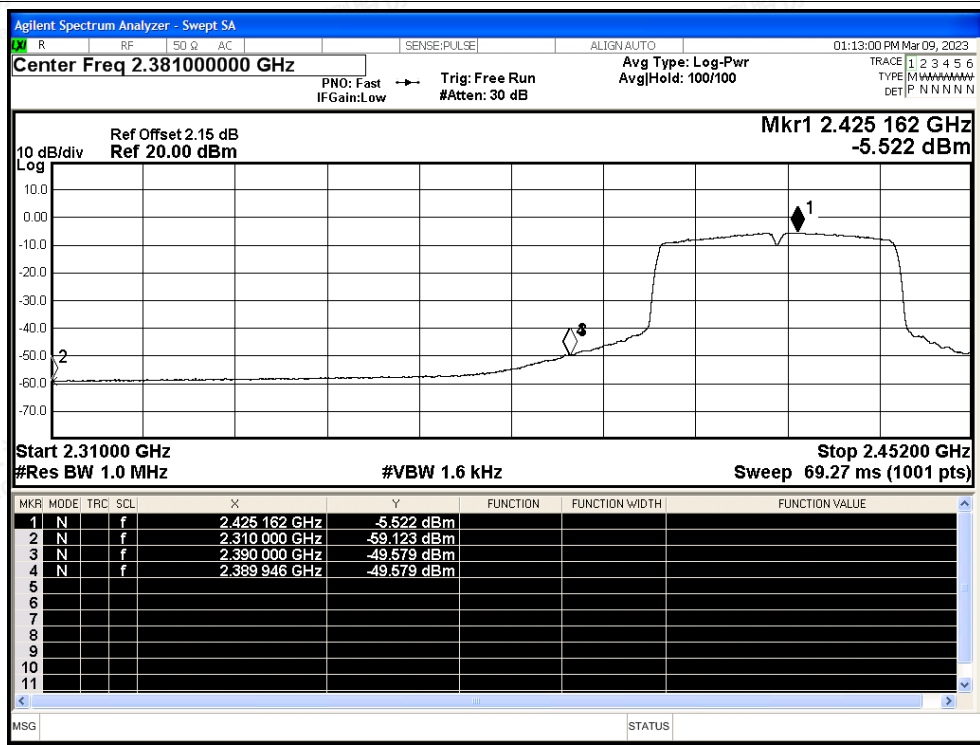




Restrict Band NVNT n40 2422MHz Ant1 Peak

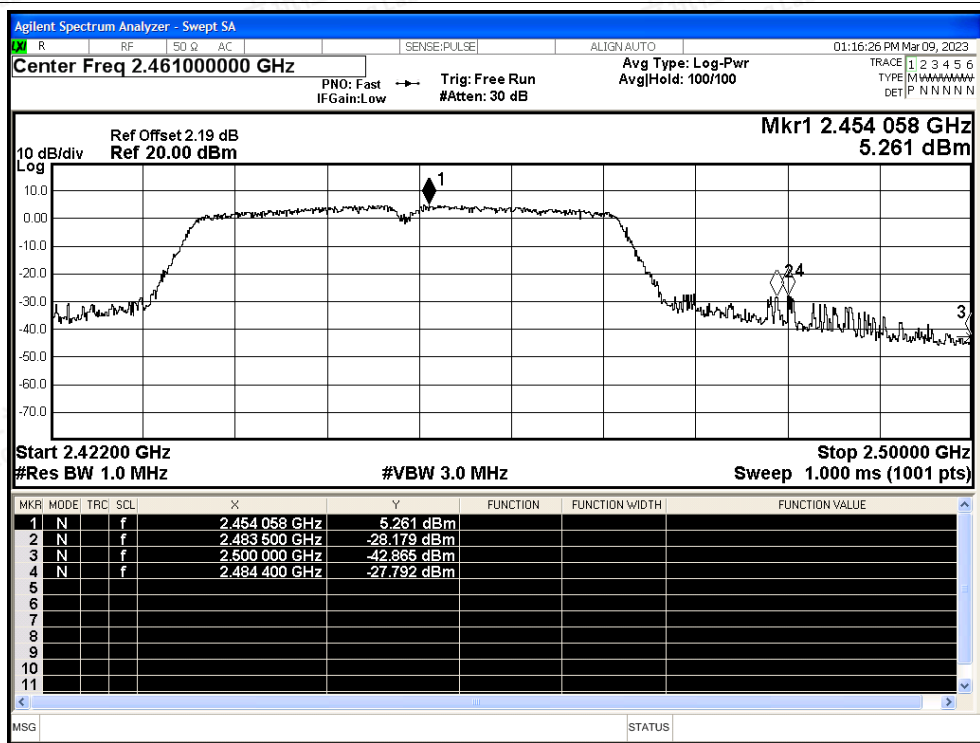


Restrict Band NVNT n40 2422MHz Ant1 Average





Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average

