



Appendix B

RF Test Data for 915 (Conducted Measurement)

Product Name: Mesh Rider Radio

Test Model: RM-1700-21N3

Environmental Conditions

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





B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g-10M	907	Ant0	7.494	>=0.5	Pass
NVNT	g-10M	915	Ant0	7.794	>=0.5	Pass
NVNT	g-10M	923	Ant0	7.685	>=0.5	Pass
NVNT	g-5M	905	Ant0	4.094	>=0.5	Pass
NVNT	g-5M	915	Ant0	4.059	>=0.5	Pass
NVNT	g-5M	925	Ant0	4.012	>=0.5	Pass
NVNT	n-10M	907	Ant0	7.513	>=0.5	Pass
NVNT	n-10M	915	Ant0	7.482	>=0.5	Pass
NVNT	n-10M	923	Ant0	7.818	>=0.5	Pass
NVNT	n-5M	905	Ant0	4.226	>=0.5	Pass
NVNT	n-5M	915	Ant0	4.265	>=0.5	Pass
NVNT	n-5M	925	Ant0	4.171	>=0.5	Pass

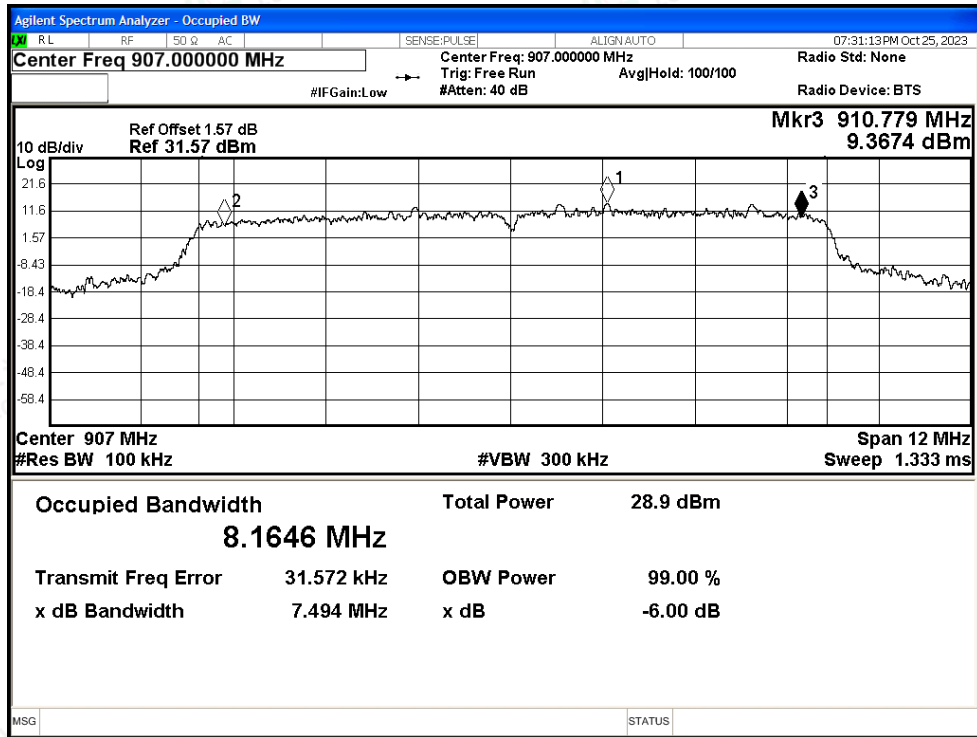


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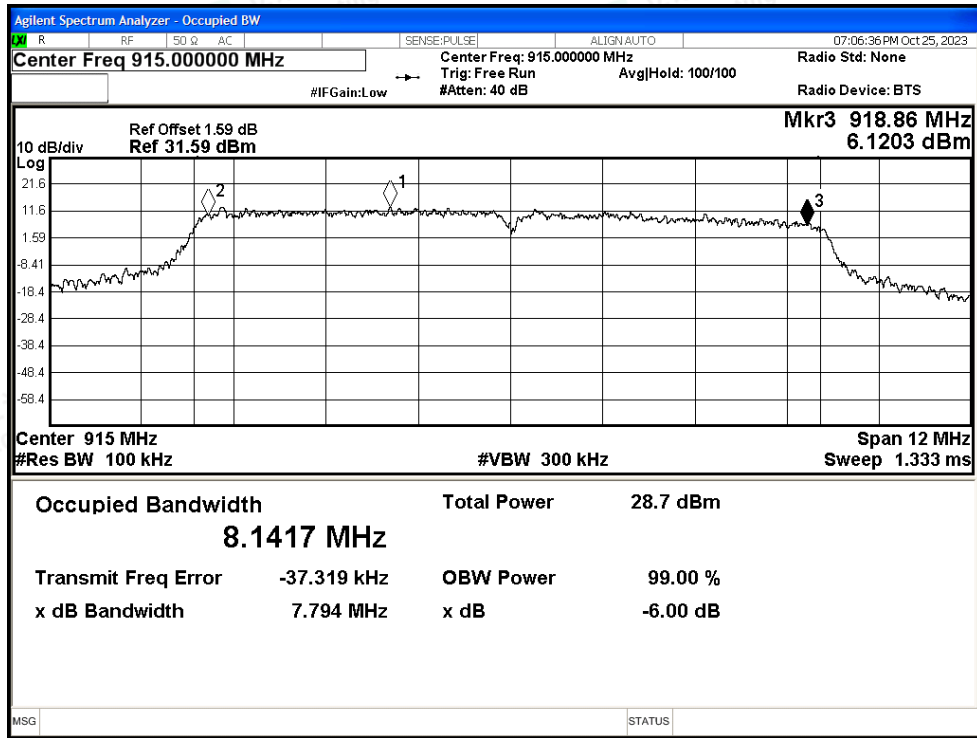


Test Graphs

-6dB Bandwidth NVNT g-10M 907MHz Ant0

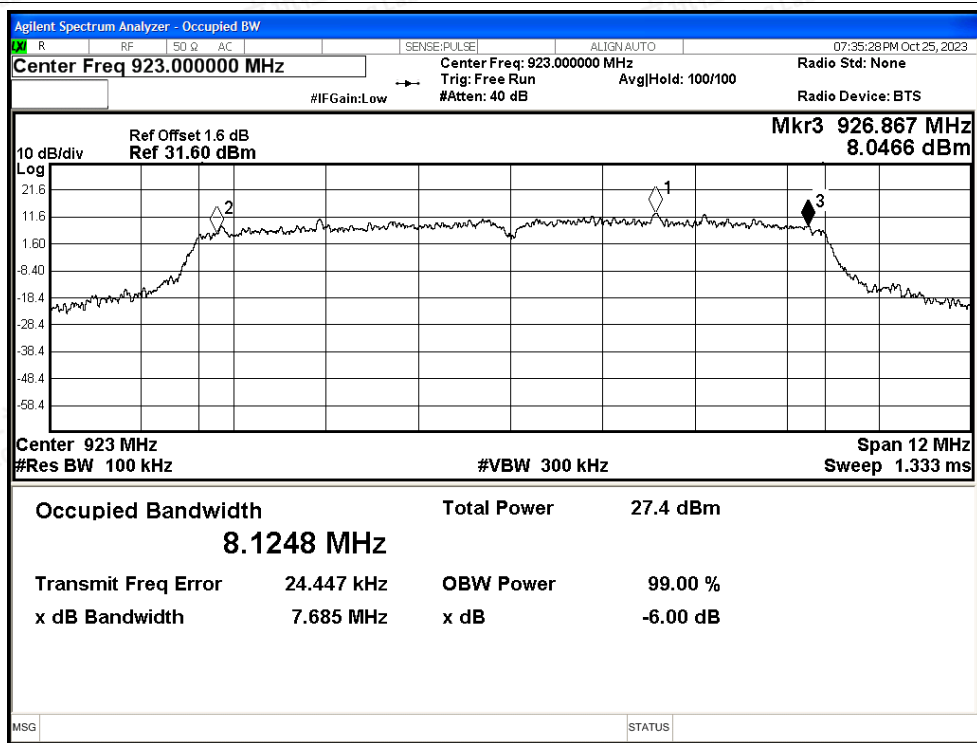


-6dB Bandwidth NVNT g-10M 915MHz Ant0

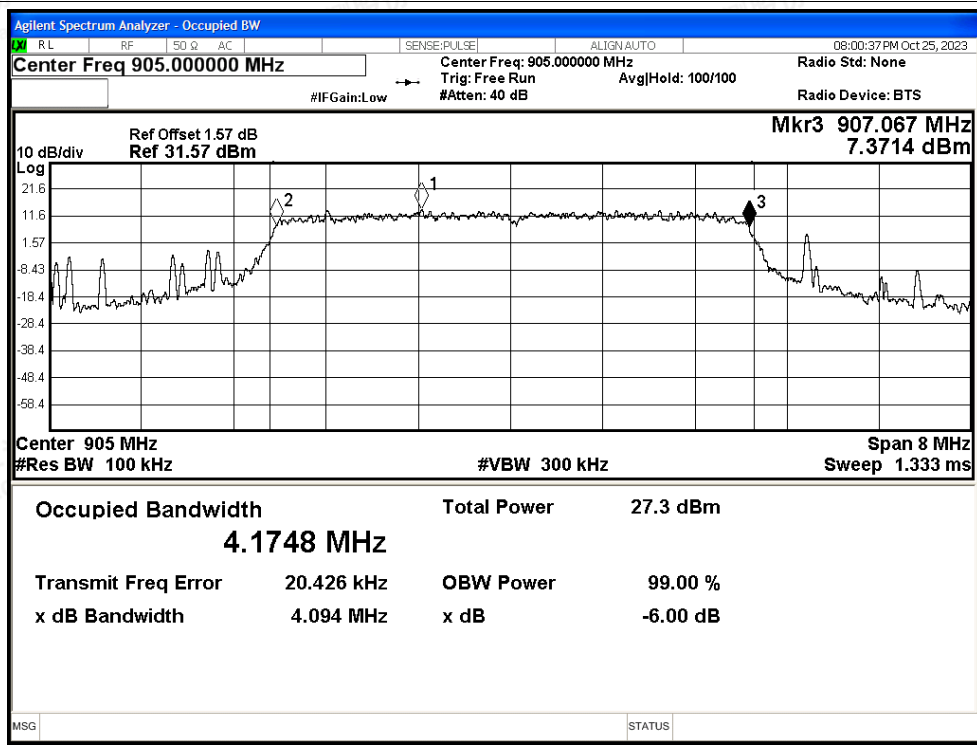




-6dB Bandwidth NVNT g-10M 923MHz Ant0

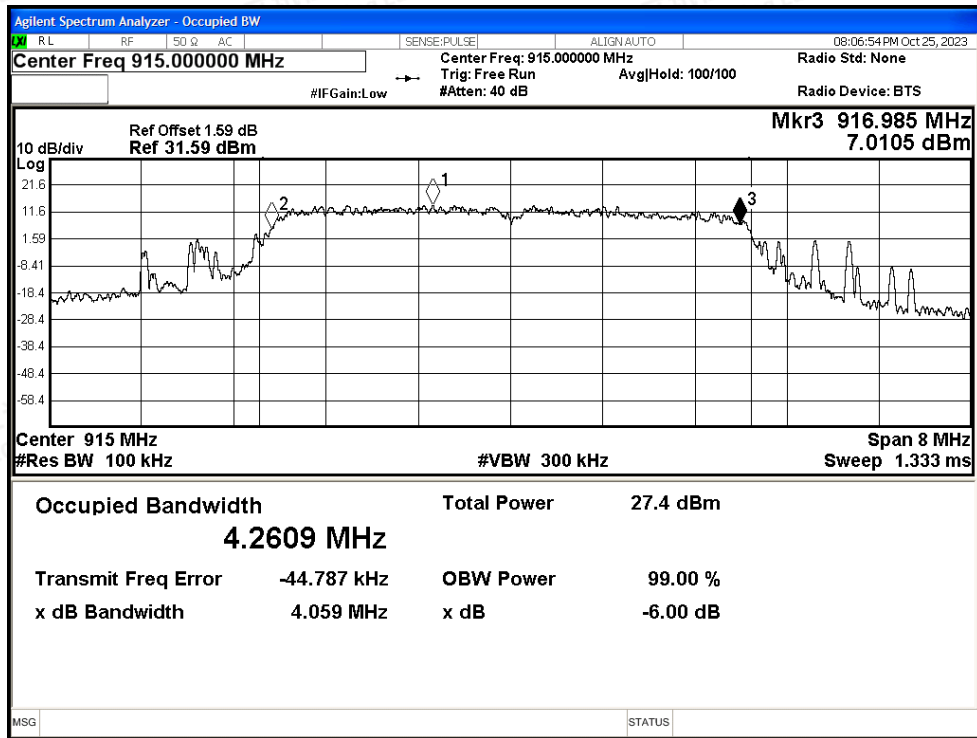


-6dB Bandwidth NVNT g-5M 905MHz Ant0

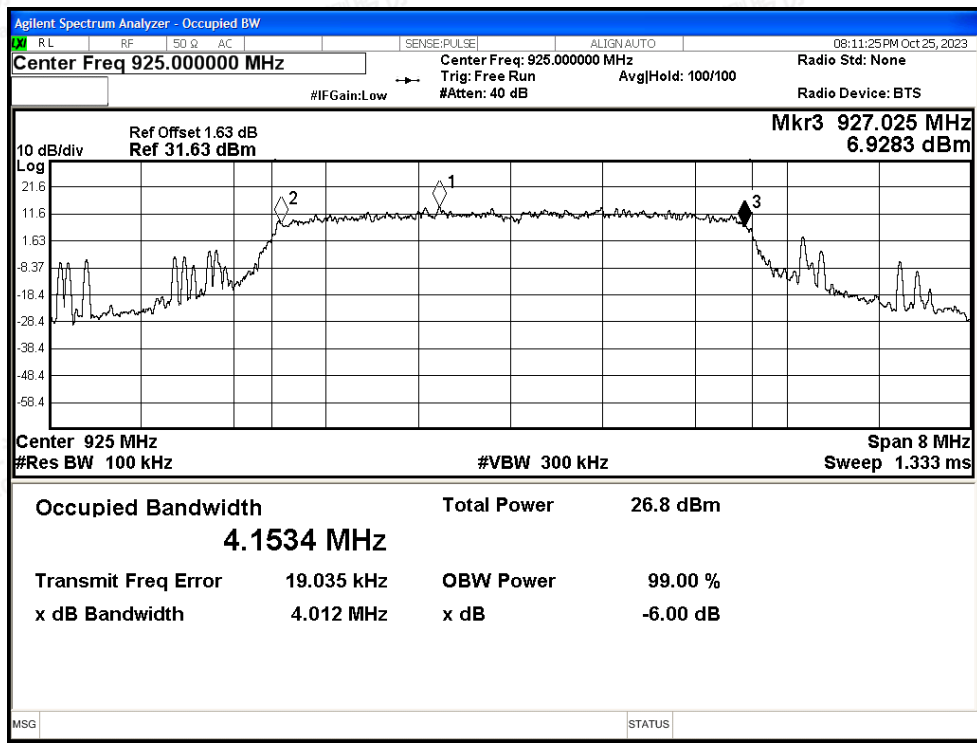




-6dB Bandwidth NVNT g-5M 915MHz Ant0

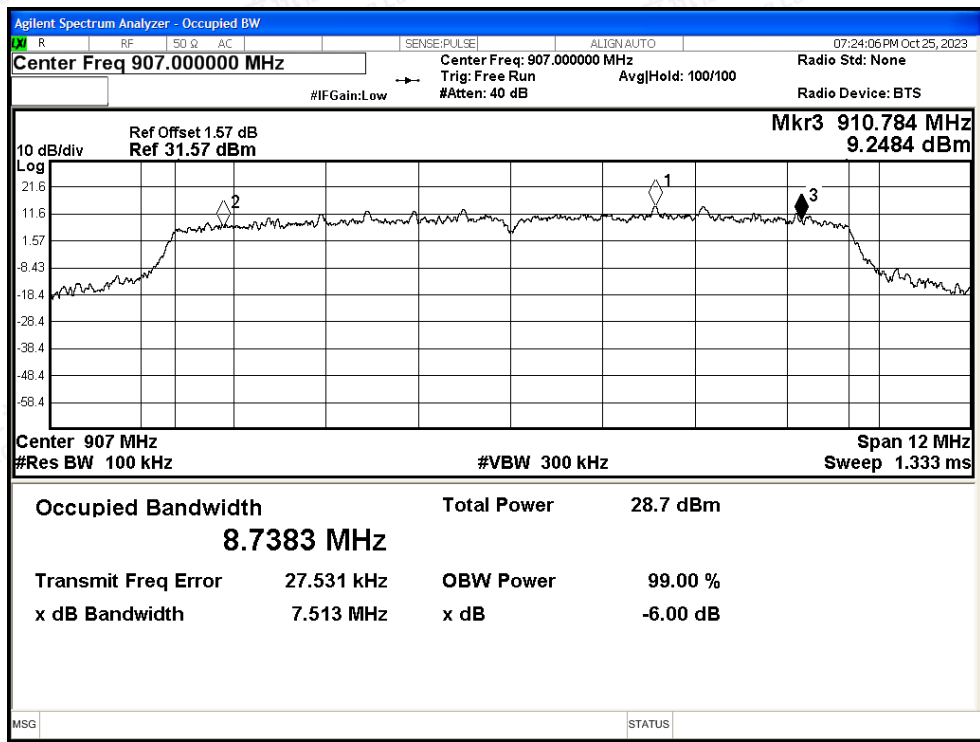


-6dB Bandwidth NVNT g-5M 925MHz Ant0

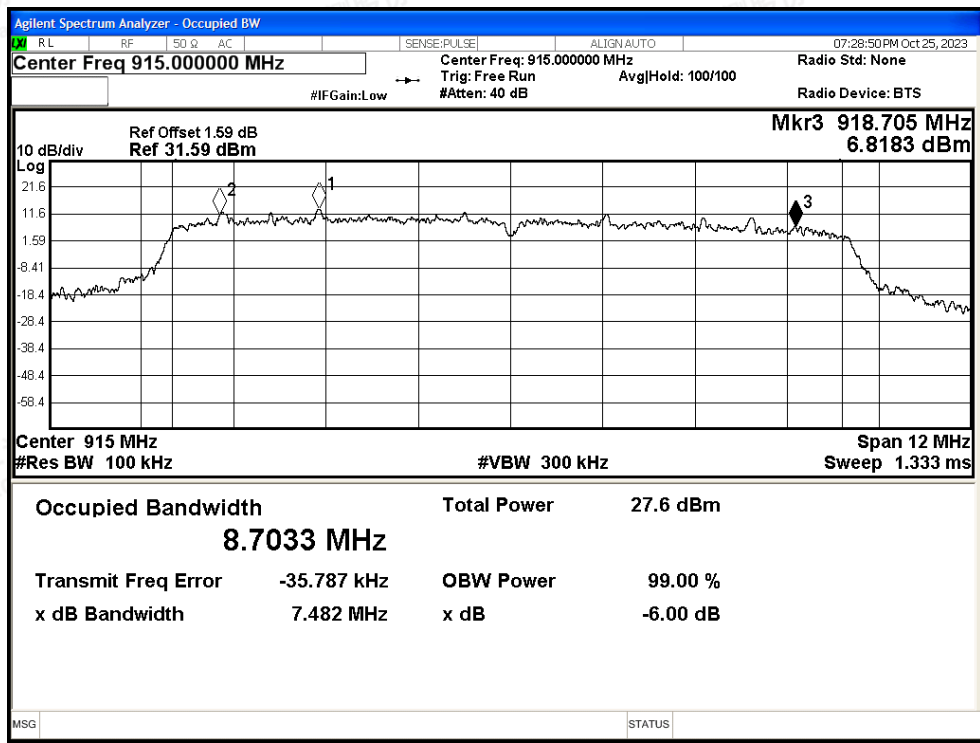




-6dB Bandwidth NVNT n-10M 907MHz Ant0

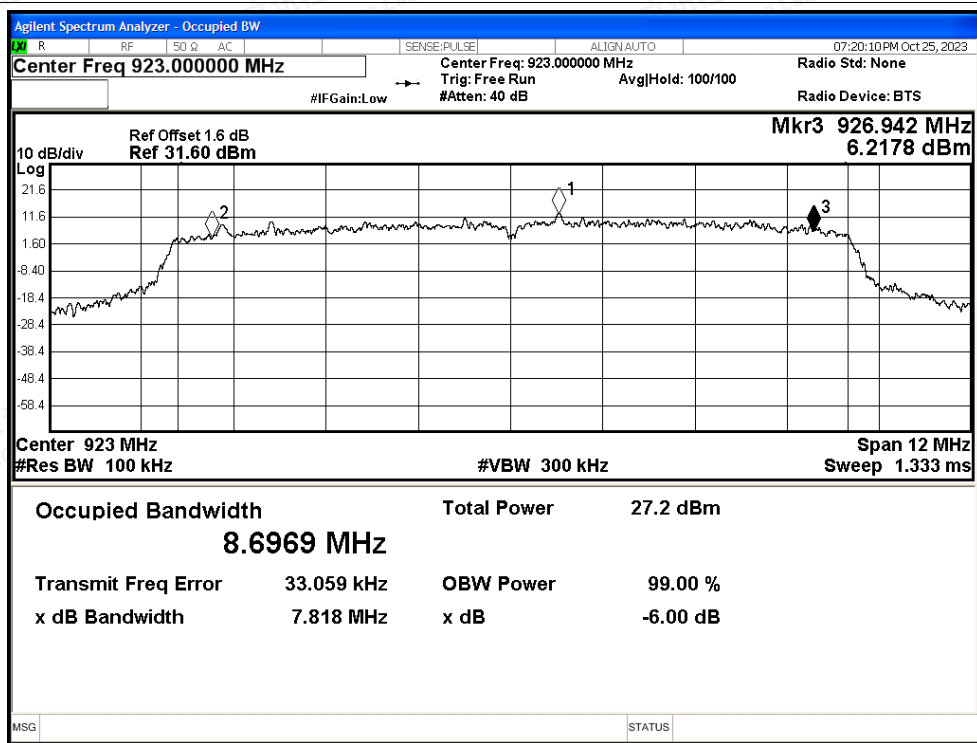


-6dB Bandwidth NVNT n-10M 915MHz Ant0





-6dB Bandwidth NVNT n-10M 923MHz Ant0

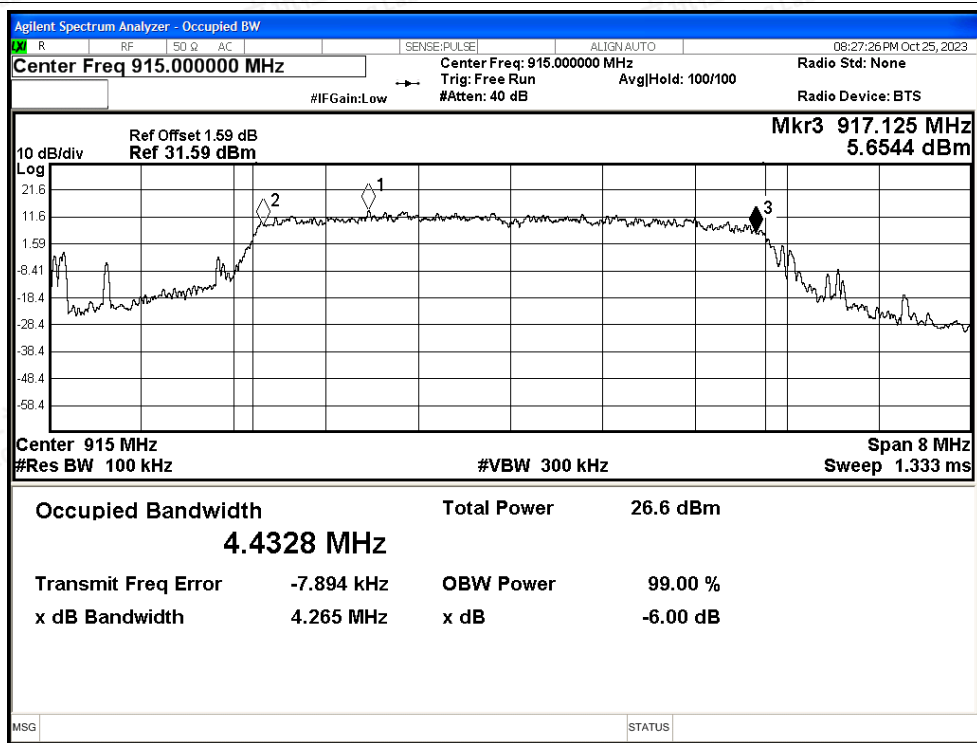


-6dB Bandwidth NVNT n-5M 905MHz Ant0





-6dB Bandwidth NVNT n-5M 915MHz Ant0



-6dB Bandwidth NVNT n-5M 925MHz Ant0





B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	g-10M	907	Ant0	8.162
NVNT	g-10M	915	Ant0	8.145
NVNT	g-10M	923	Ant0	8.112
NVNT	g-5M	905	Ant0	4.227
NVNT	g-5M	915	Ant0	4.33
NVNT	g-5M	925	Ant0	4.215
NVNT	n-10M	907	Ant0	8.734
NVNT	n-10M	915	Ant0	8.707
NVNT	n-10M	923	Ant0	8.706
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NVNT	n-5M	915	Ant0	4.565
NVNT	n-5M	925	Ant0	4.412

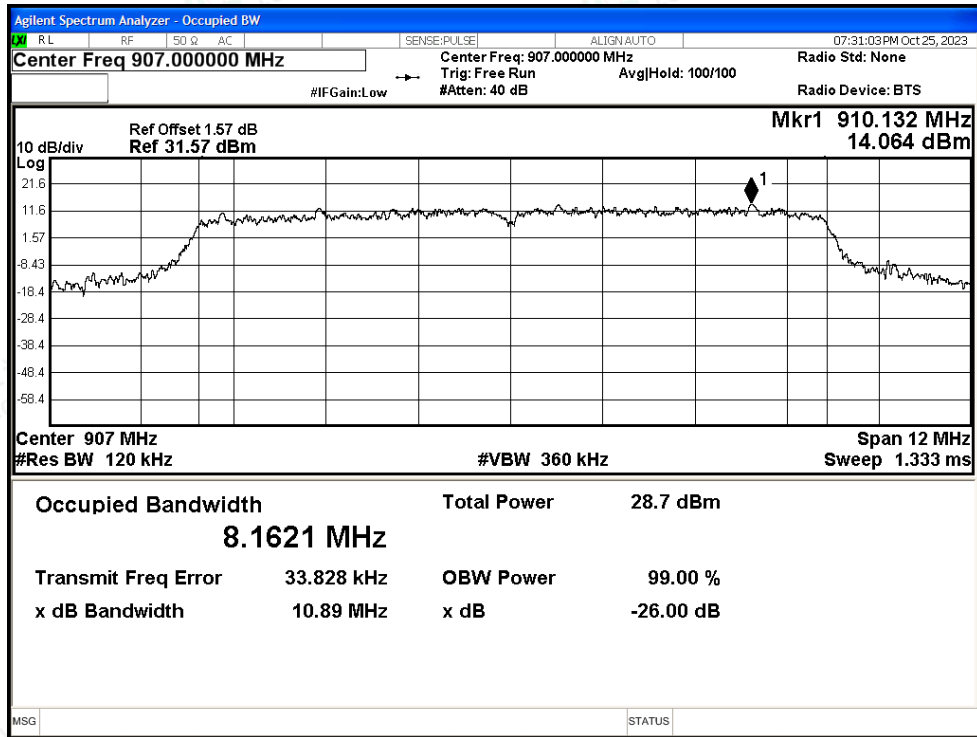


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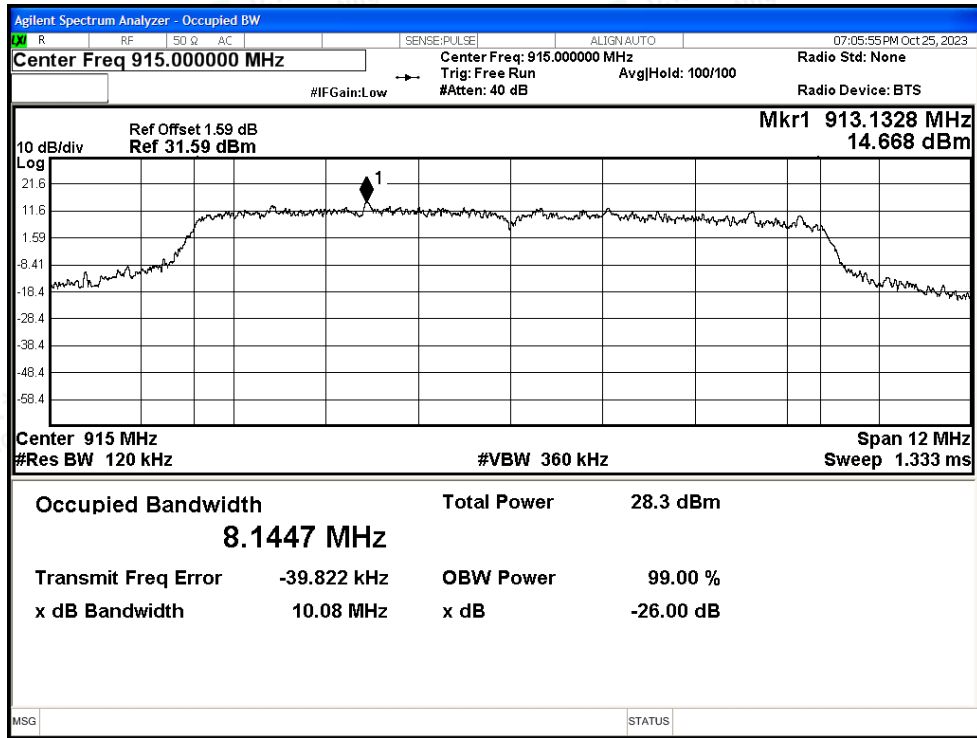


Test Graphs

OBW NVNT g-10M 907MHz Ant0

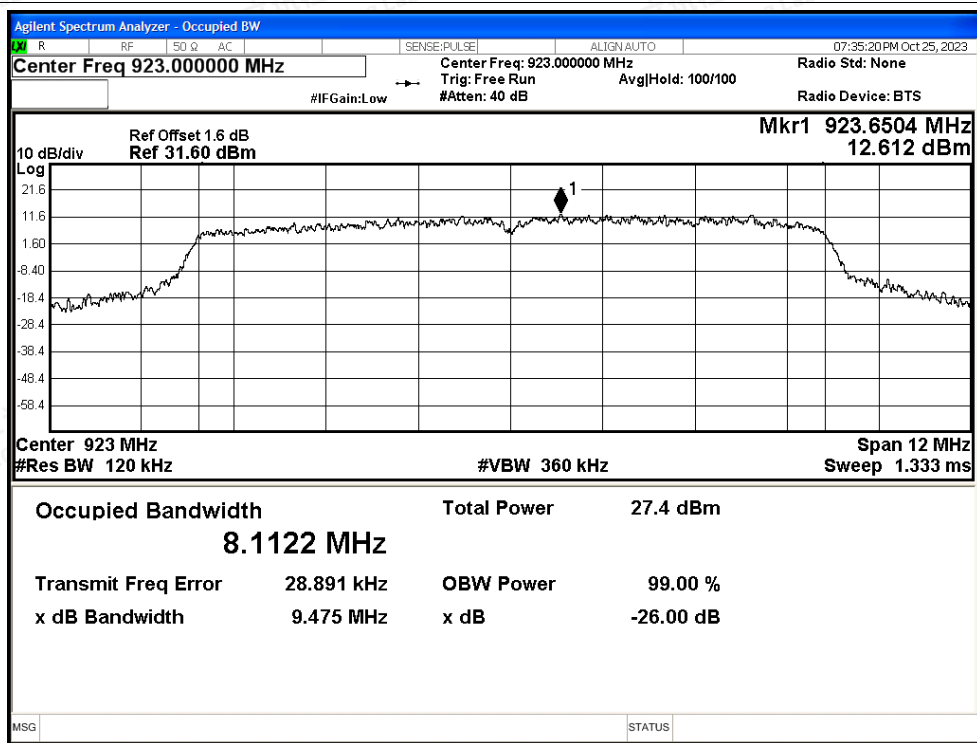


OBW NVNT g-10M 915MHz Ant0

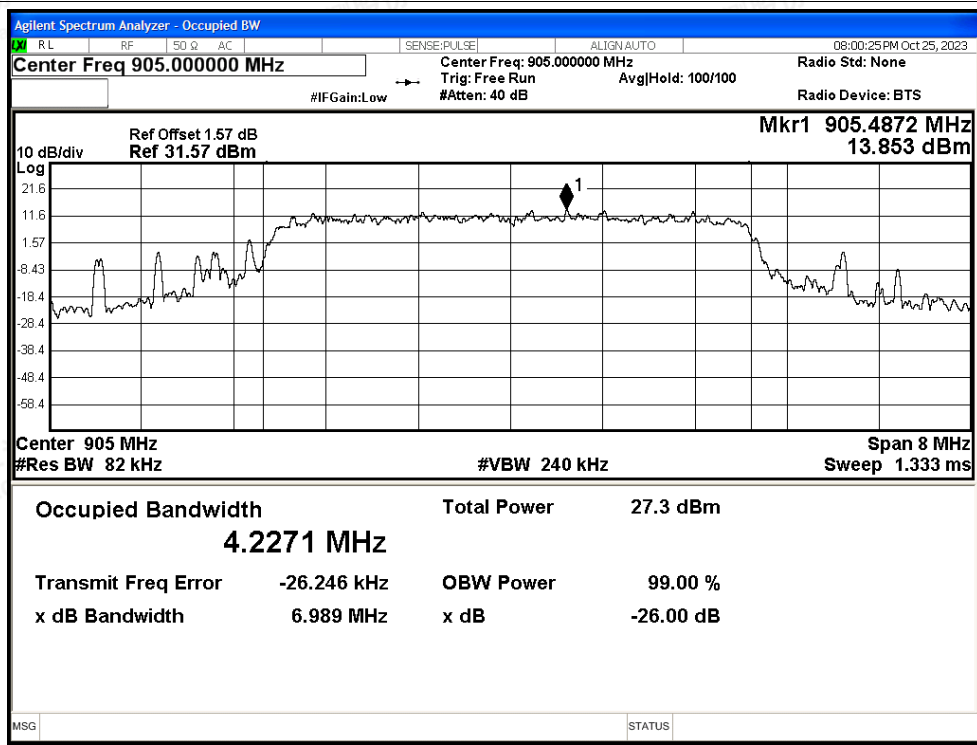




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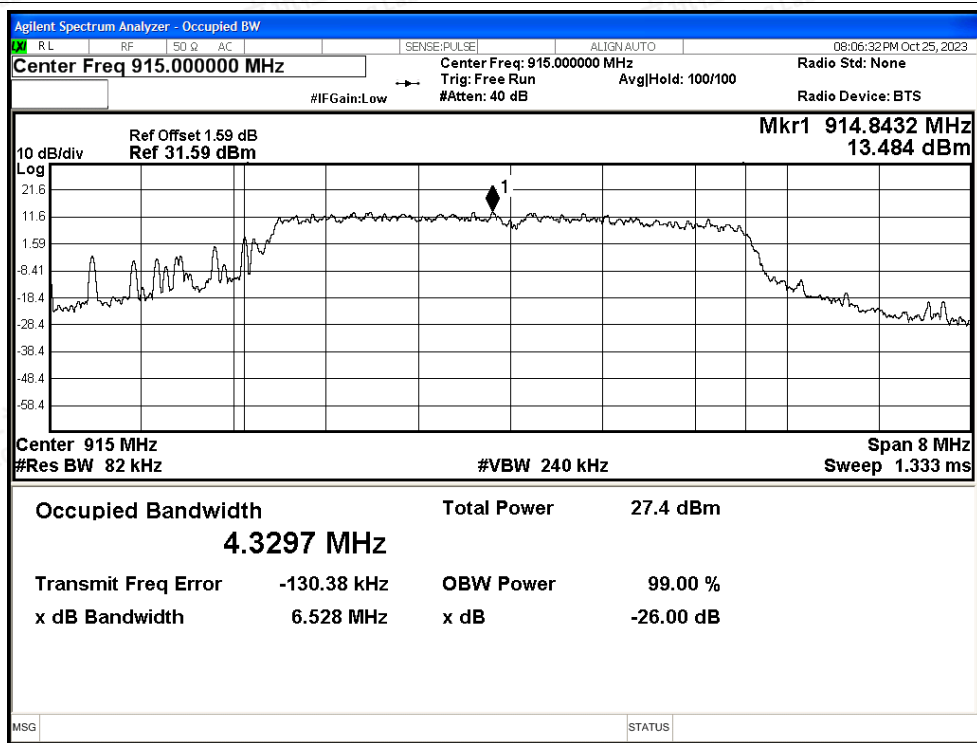


OBW NVNT g-5M 905MHz Ant0

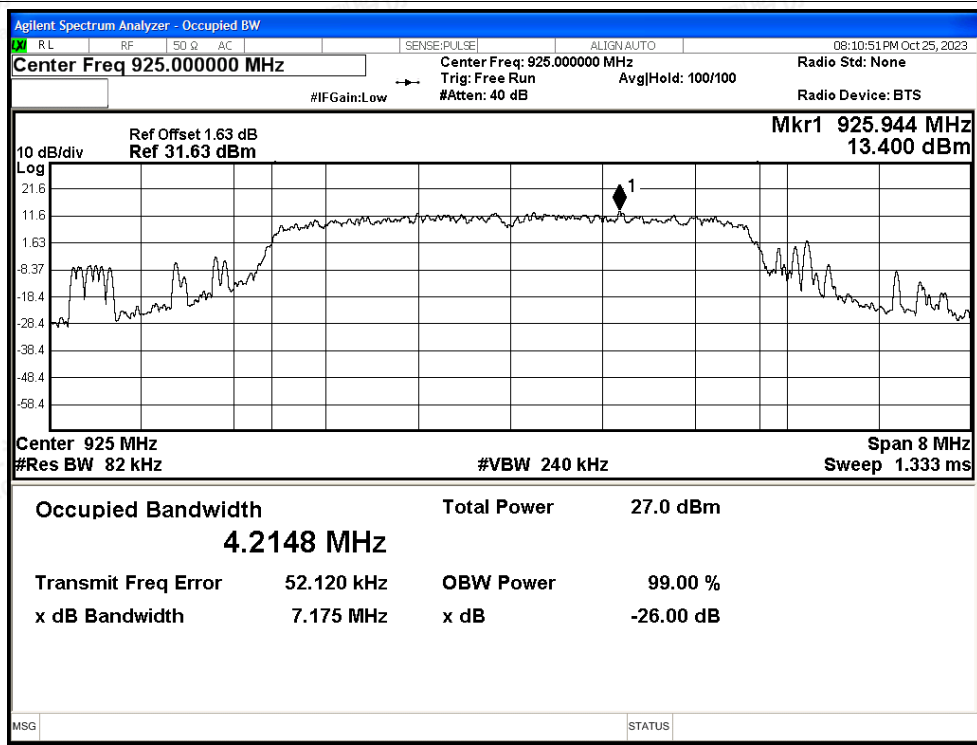




OBW NVNT g-5M 915MHz Ant0

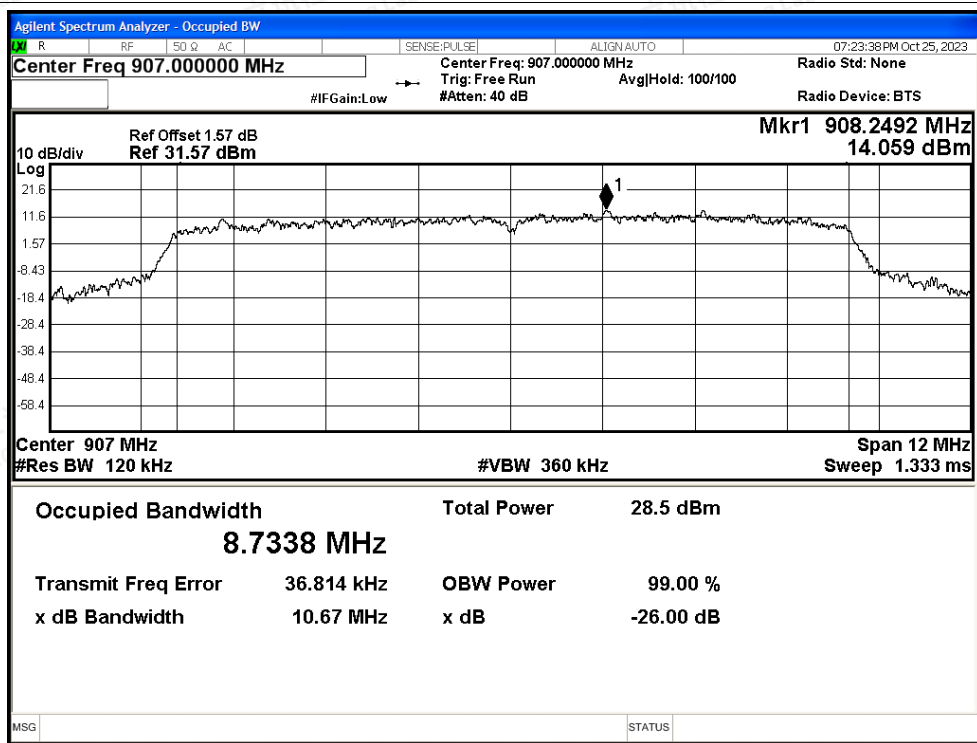


OBW NVNT g-5M 925MHz Ant0

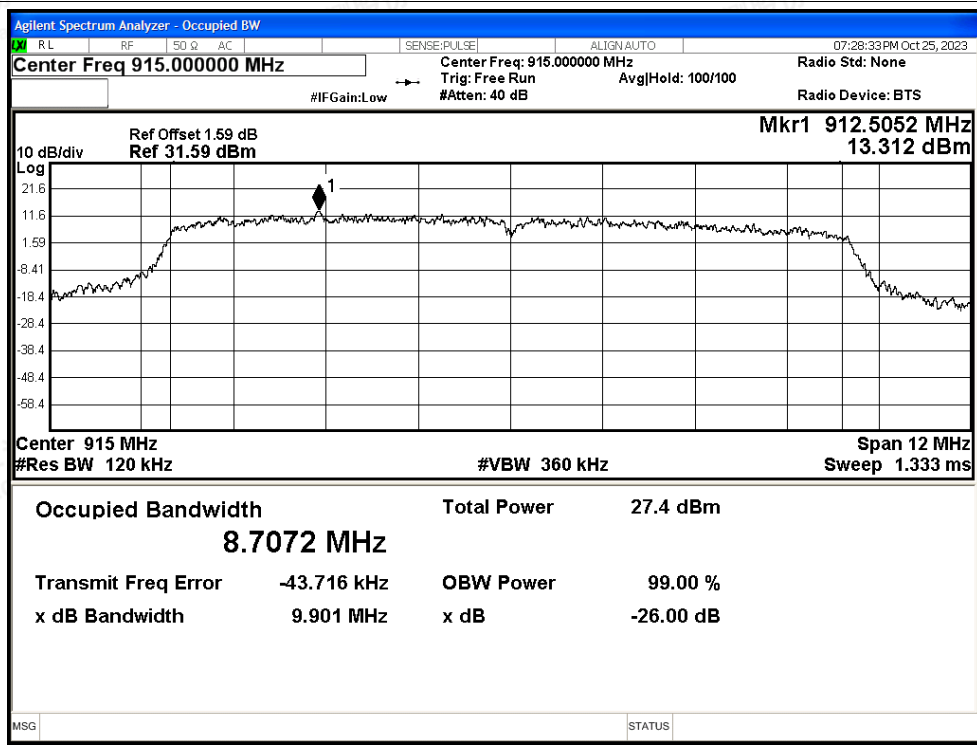




OBW NVNT n-10M 907MHz Ant0

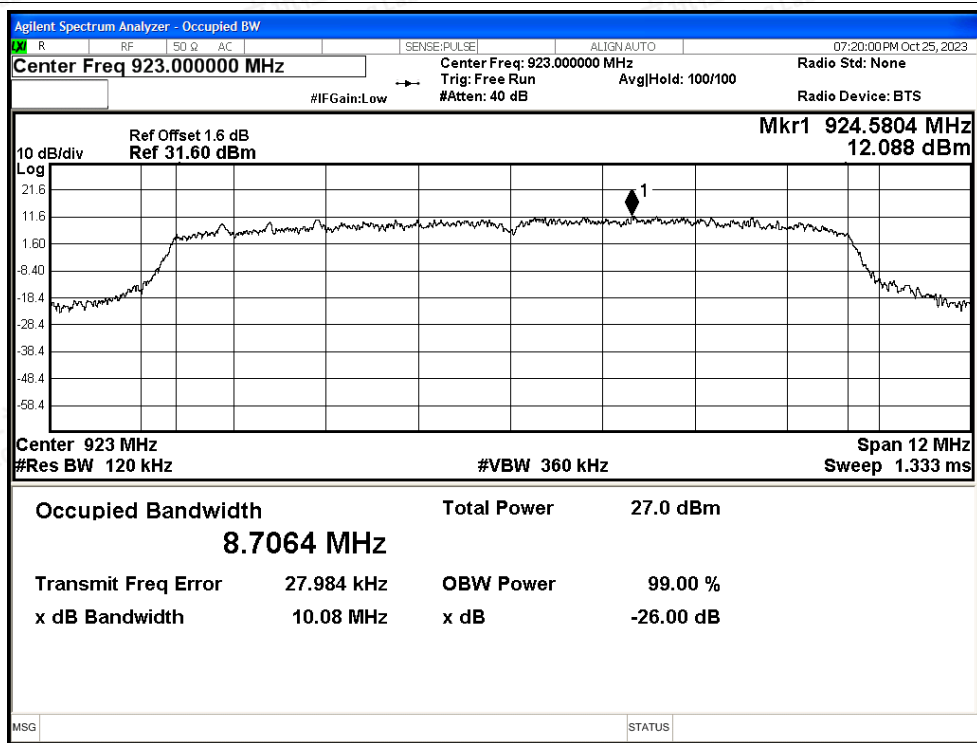


OBW NVNT n-10M 915MHz Ant0

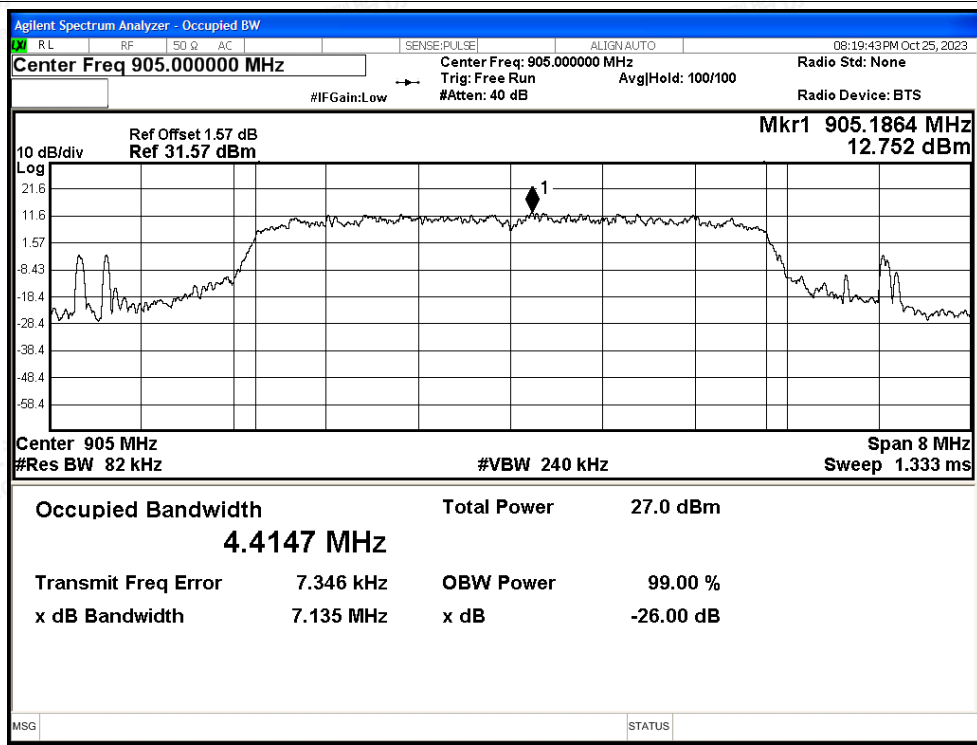




OBW NVNT n-10M 923MHz Ant0

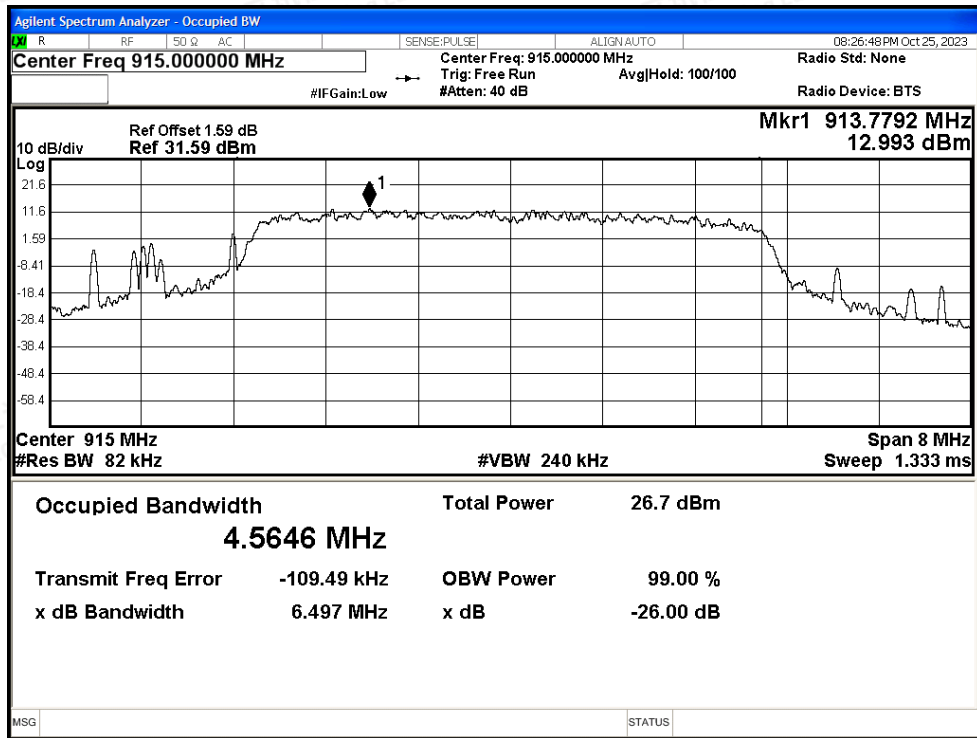


OBW NVNT n-5M 905MHz Ant0

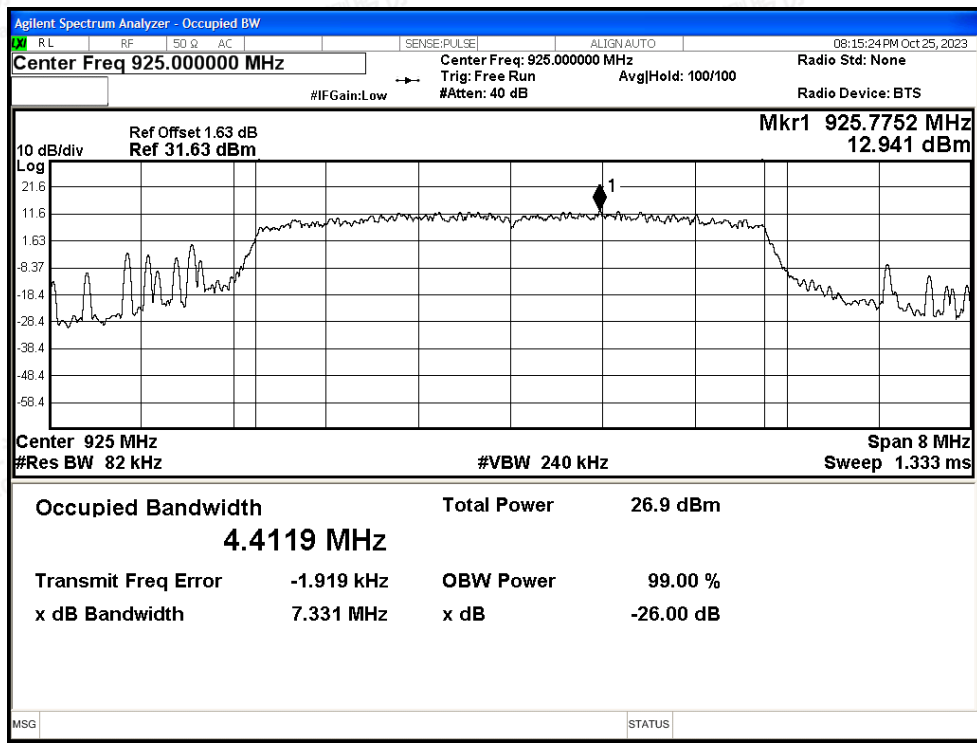




OBW NVNT n-5M 915MHz Ant0



OBW NVNT n-5M 925MHz Ant0





B.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	g-10M	907	Ant0	26.58	30	Pass
NVNT	g-10M	915	Ant0	26.48	30	Pass
NVNT	g-10M	923	Ant0	26.63	30	Pass
NVNT	g-5M	905	Ant0	26.67	30	Pass
NVNT	g-5M	915	Ant0	26.62	30	Pass
NVNT	g-5M	925	Ant0	26.44	30	Pass
NVNT	n-10M	907	Ant0	26.85	30	Pass
NVNT	n-10M	915	Ant0	26.12	30	Pass
NVNT	n-10M	923	Ant0	26.18	30	Pass
NVNT	n-5M	905	Ant0	26.3	30	Pass
NVNT	n-5M	915	Ant0	26.2	30	Pass
NVNT	n-5M	925	Ant0	26.5	30	Pass



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B.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	g-10M	907	Ant0	0.4	8	Pass
NVNT	g-10M	915	Ant0	0.75	8	Pass
NVNT	g-10M	923	Ant0	-1.01	8	Pass
NVNT	g-5M	905	Ant0	1.06	8	Pass
NVNT	g-5M	915	Ant0	2.02	8	Pass
NVNT	g-5M	925	Ant0	1.27	8	Pass
NVNT	n-10M	907	Ant0	1.19	8	Pass
NVNT	n-10M	915	Ant0	-0.08	8	Pass
NVNT	n-10M	923	Ant0	-0.8	8	Pass
NVNT	n-5M	905	Ant0	2.23	8	Pass
NVNT	n-5M	915	Ant0	0.86	8	Pass
NVNT	n-5M	925	Ant0	1.4	8	Pass

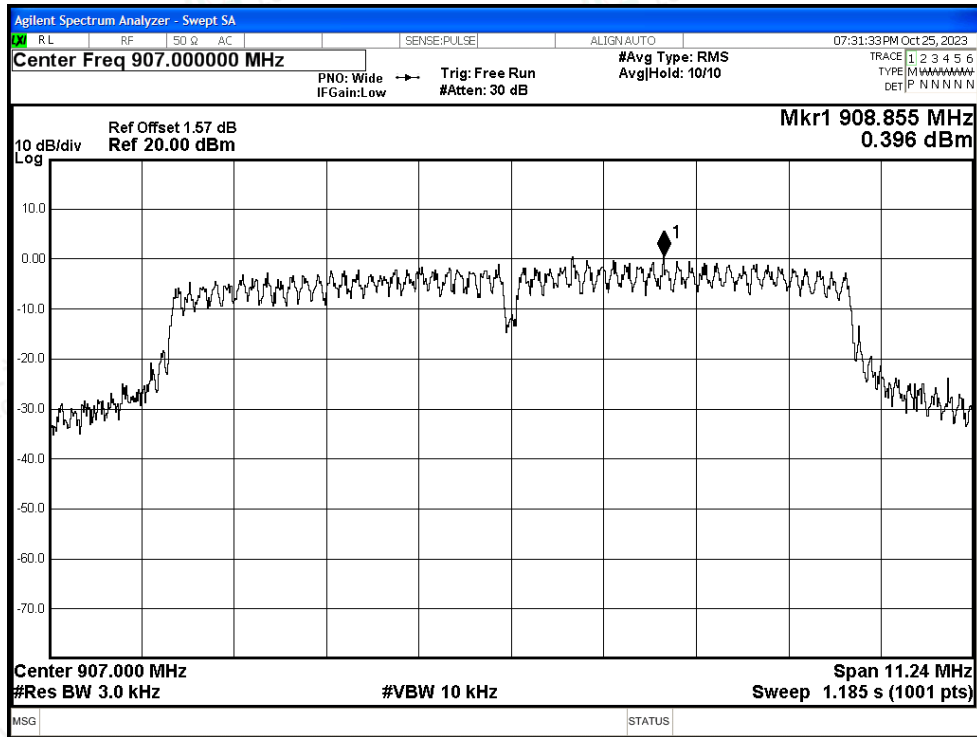


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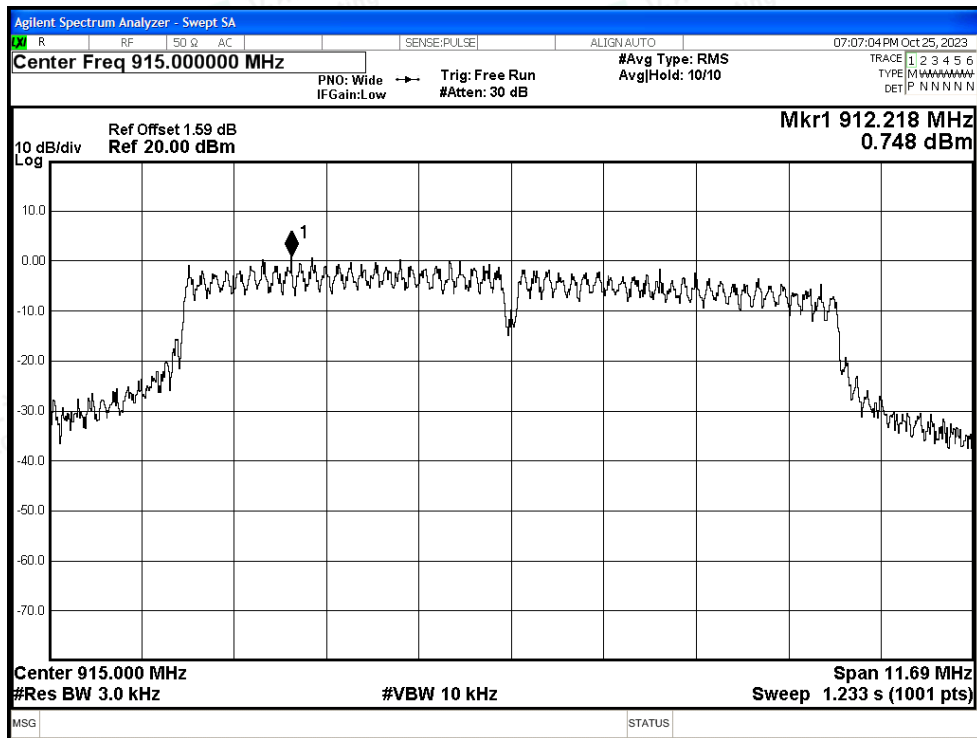


Test Graphs

PSD NVNT g-10M 907MHz Ant0

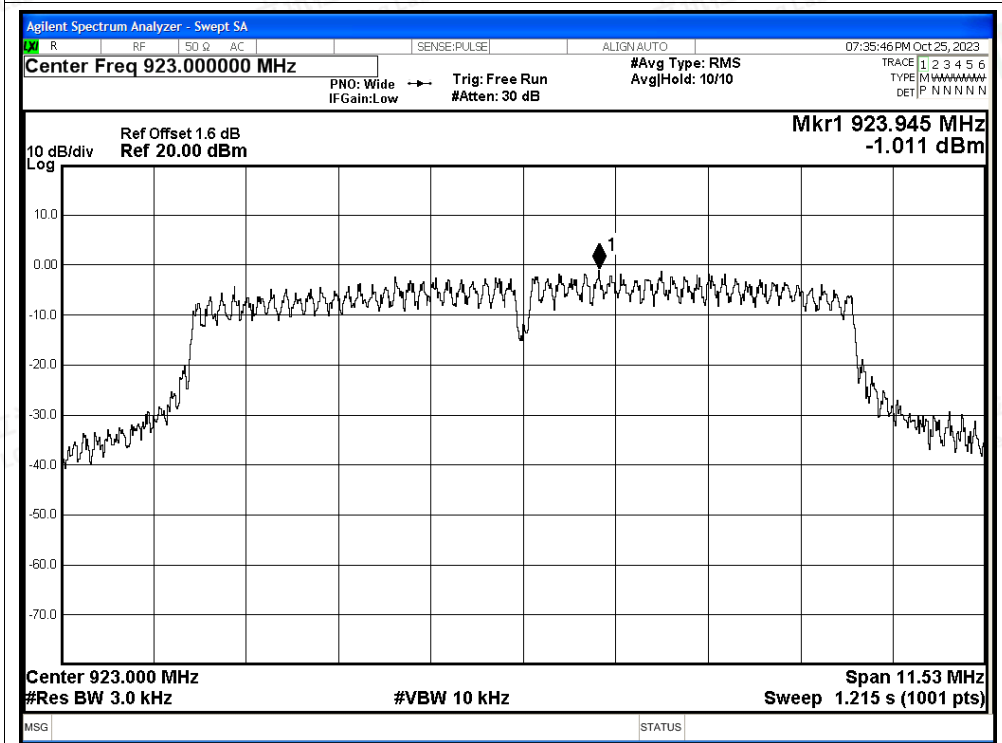


PSD NVNT g-10M 915MHz Ant0

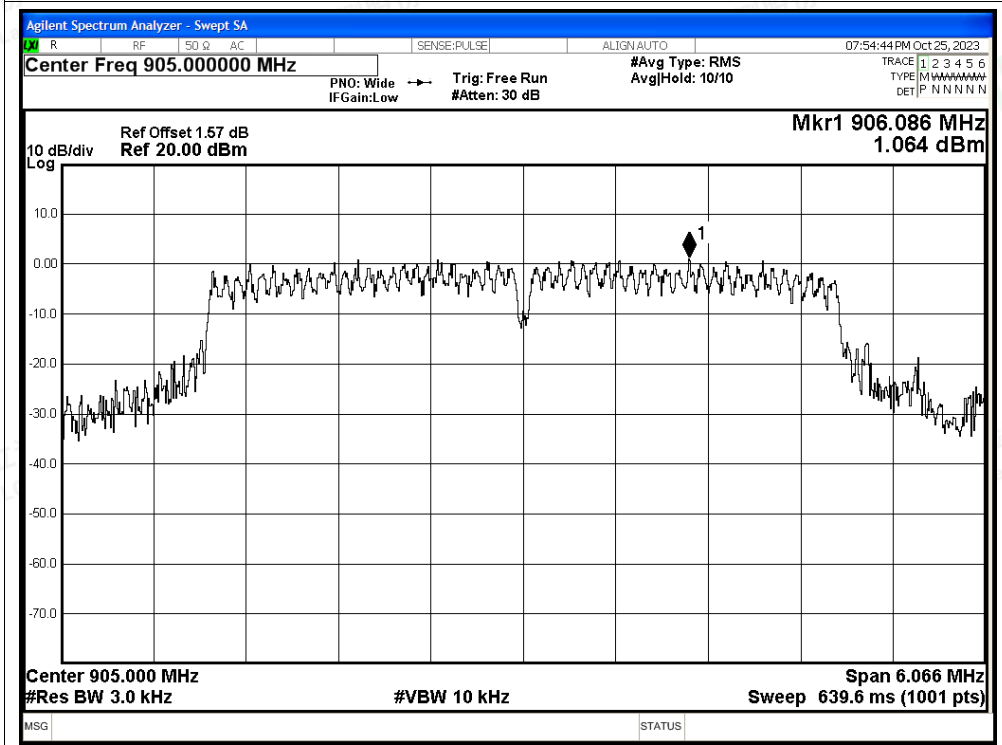


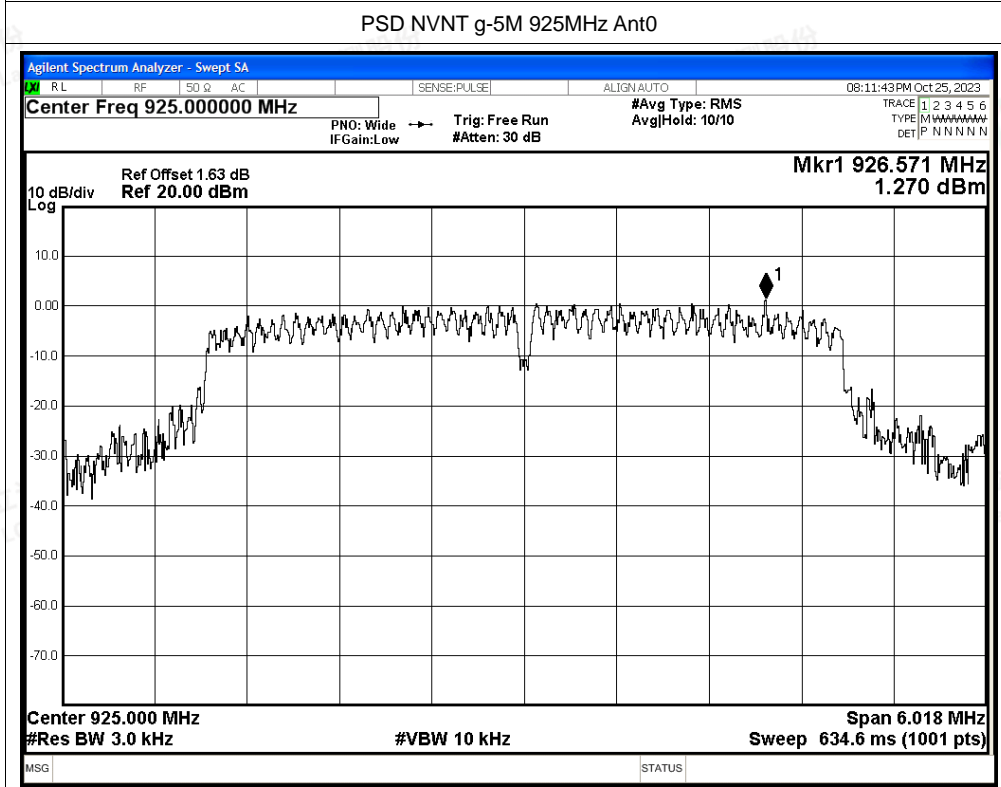
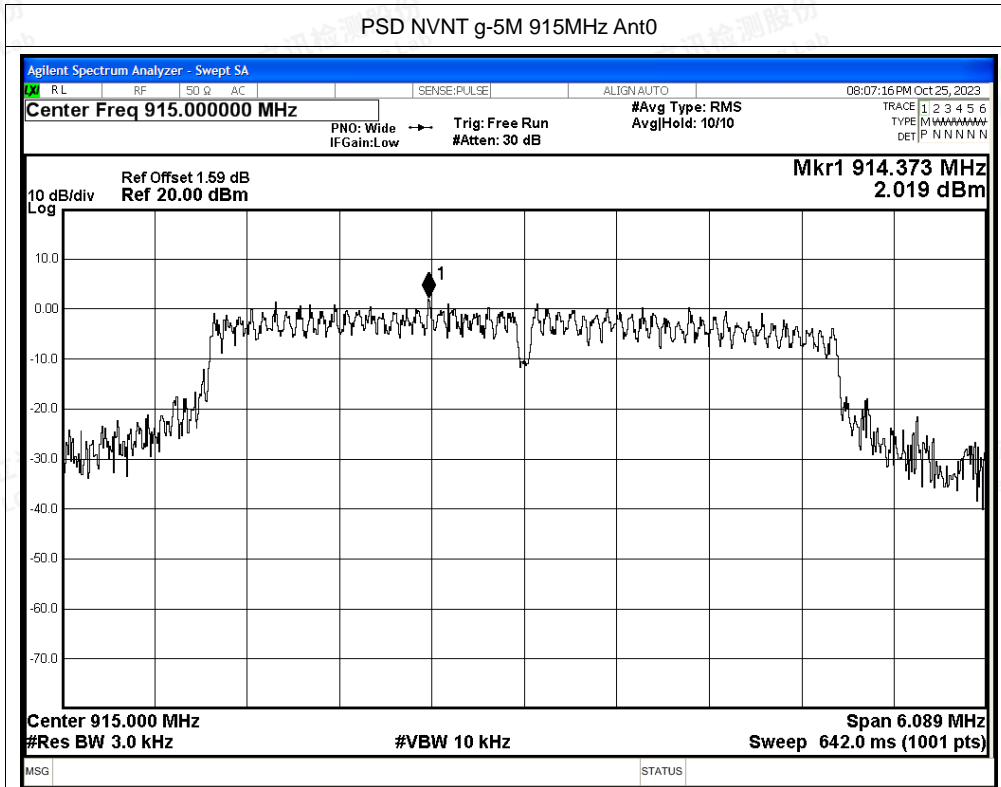


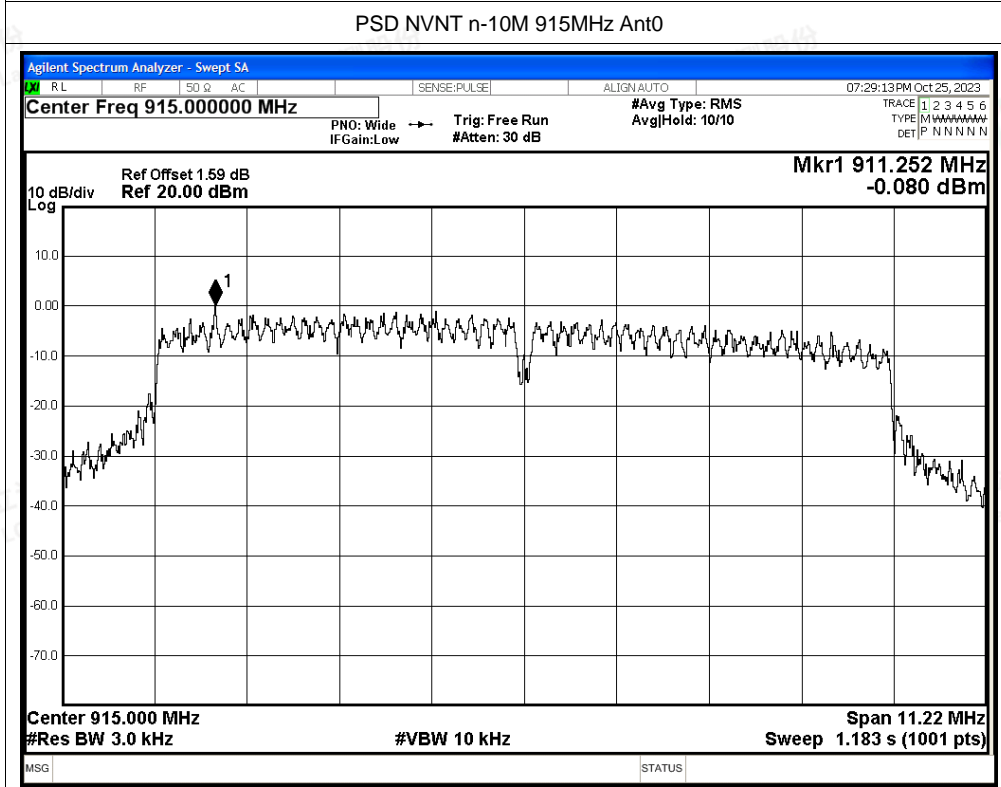
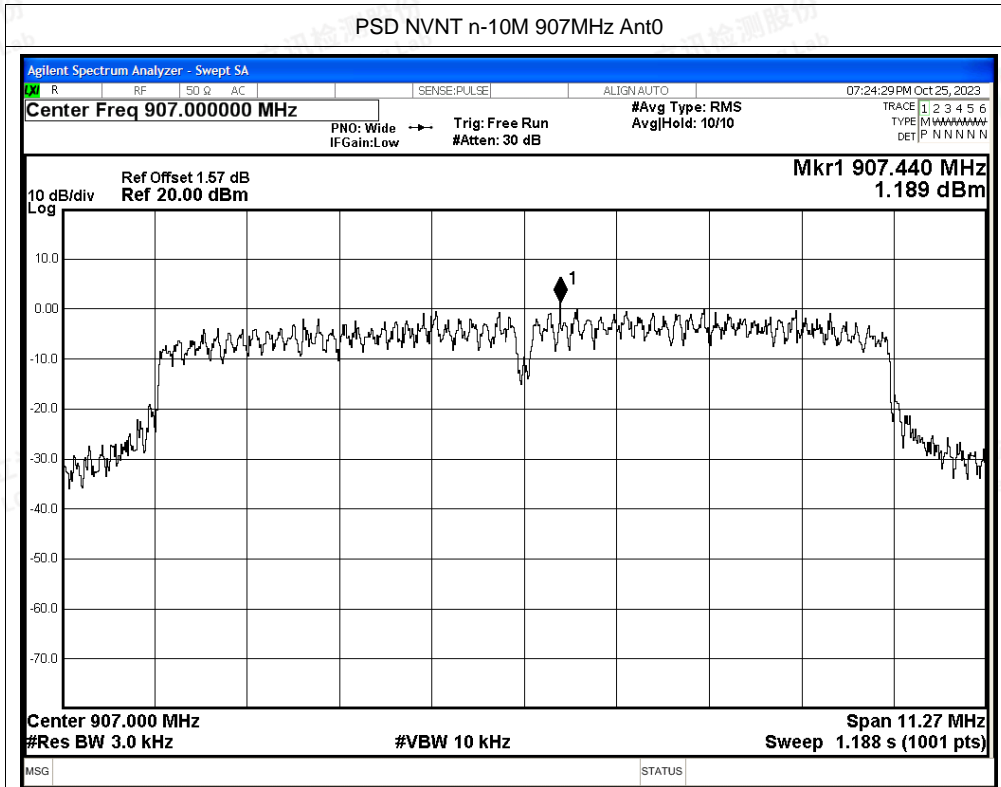
PSD NVNT g-10M 923MHz Ant0

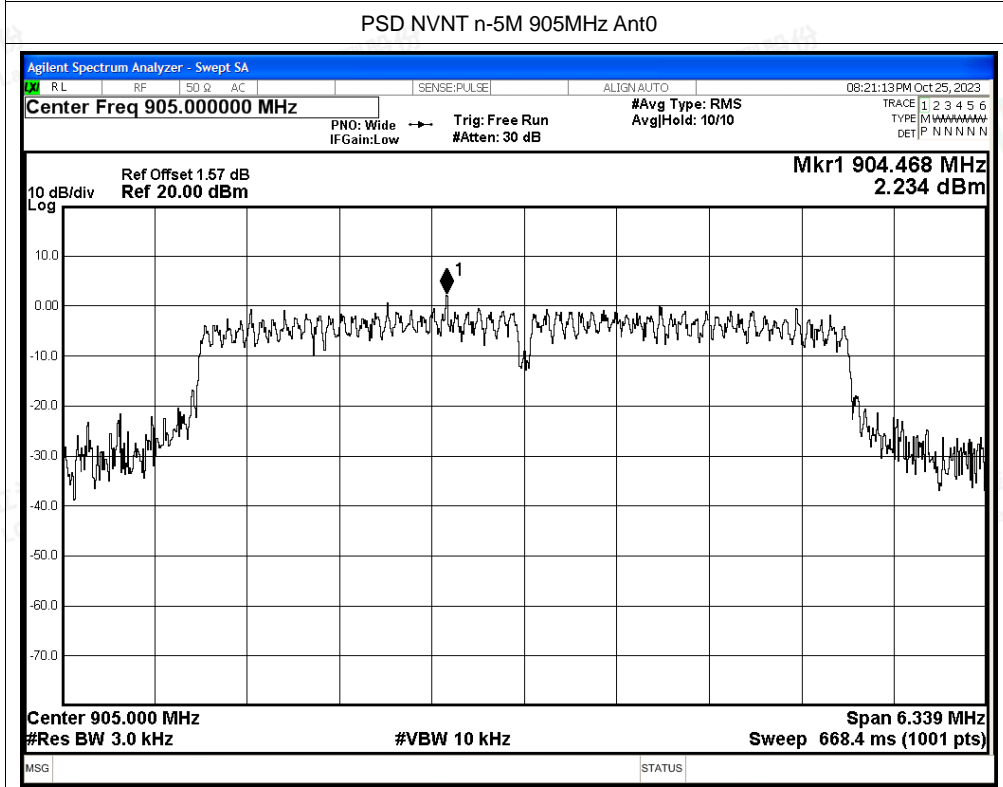
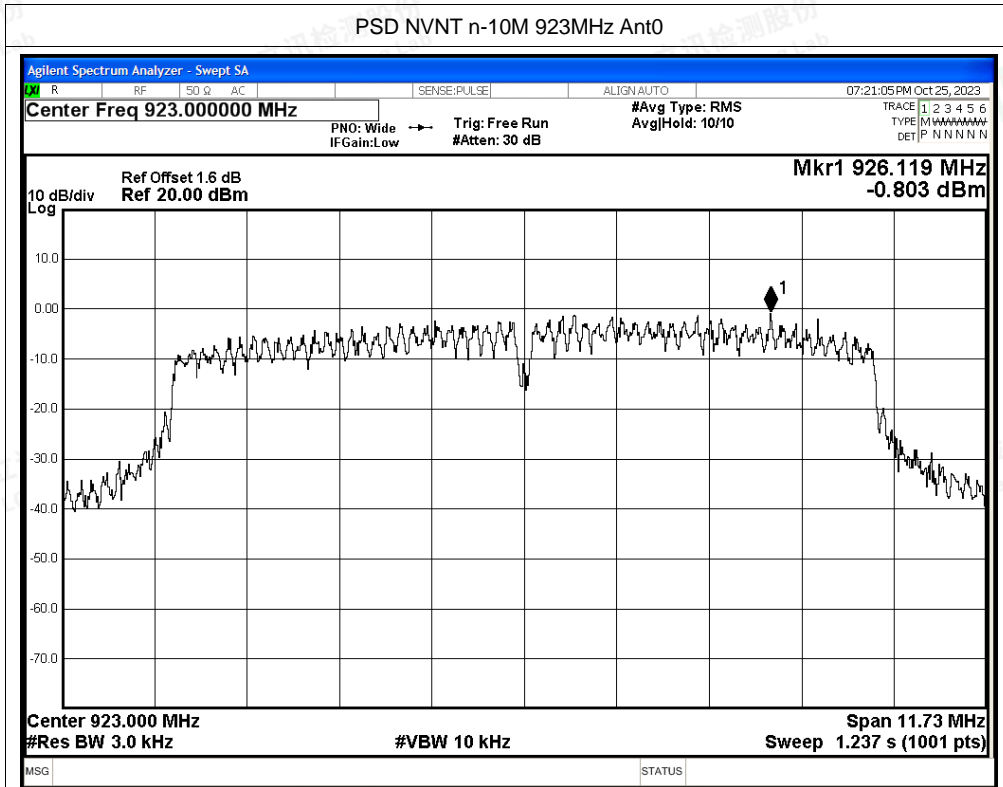


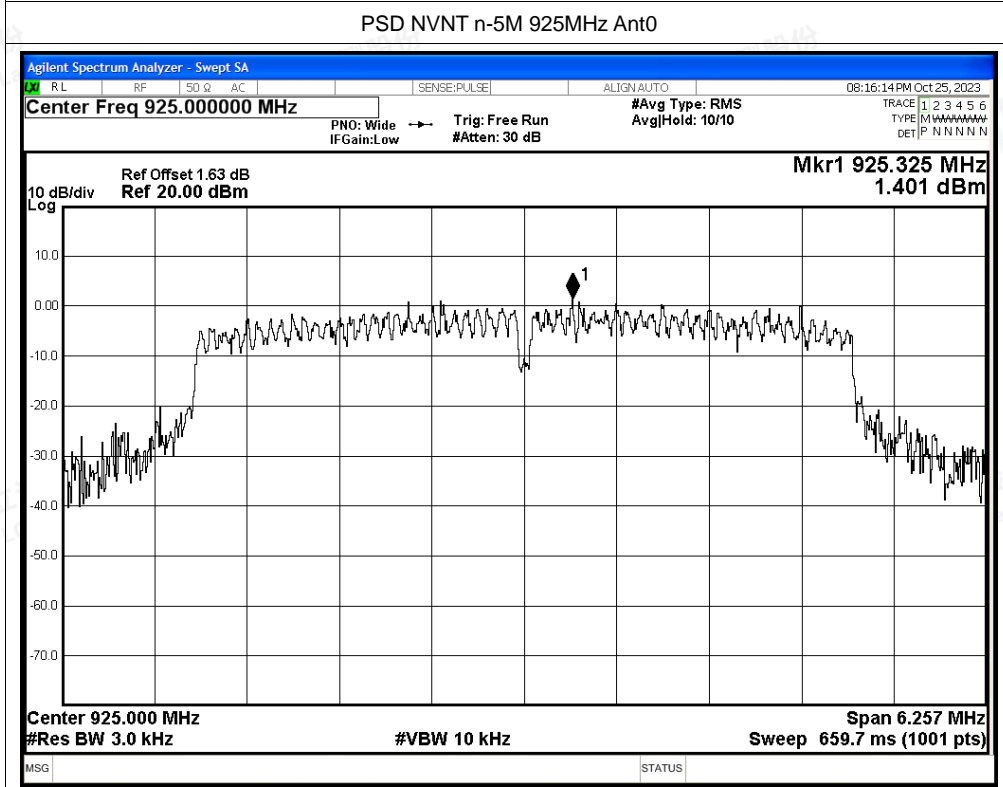
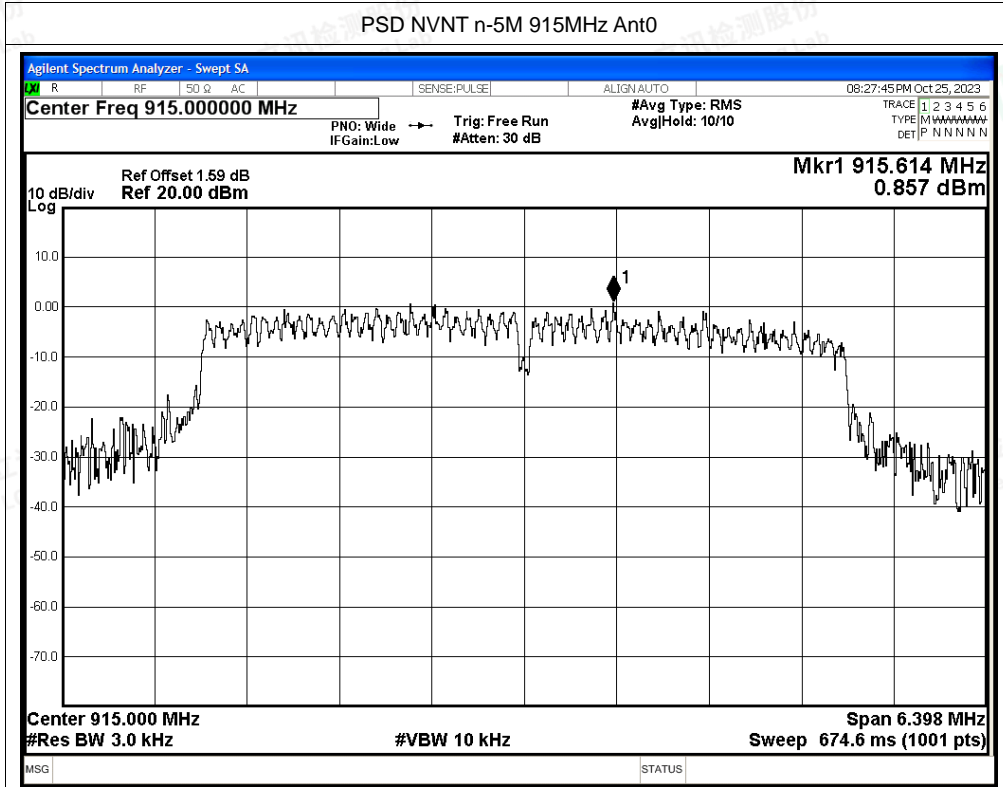
PSD NVNT g-5M 905MHz Ant0













B.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Limit (dBc)	Verdict
NVNT	g-10M	907	Ant0	-20	Pass
NVNT	g-10M	923	Ant0	-20	Pass
NVNT	g-5M	905	Ant0	-20	Pass
NVNT	g-5M	925	Ant0	-20	Pass
NVNT	n-10M	907	Ant0	-20	Pass
NVNT	n-10M	923	Ant0	-20	Pass
NVNT	n-5M	905	Ant0	-20	Pass
NVNT	n-5M	925	Ant0	-20	Pass

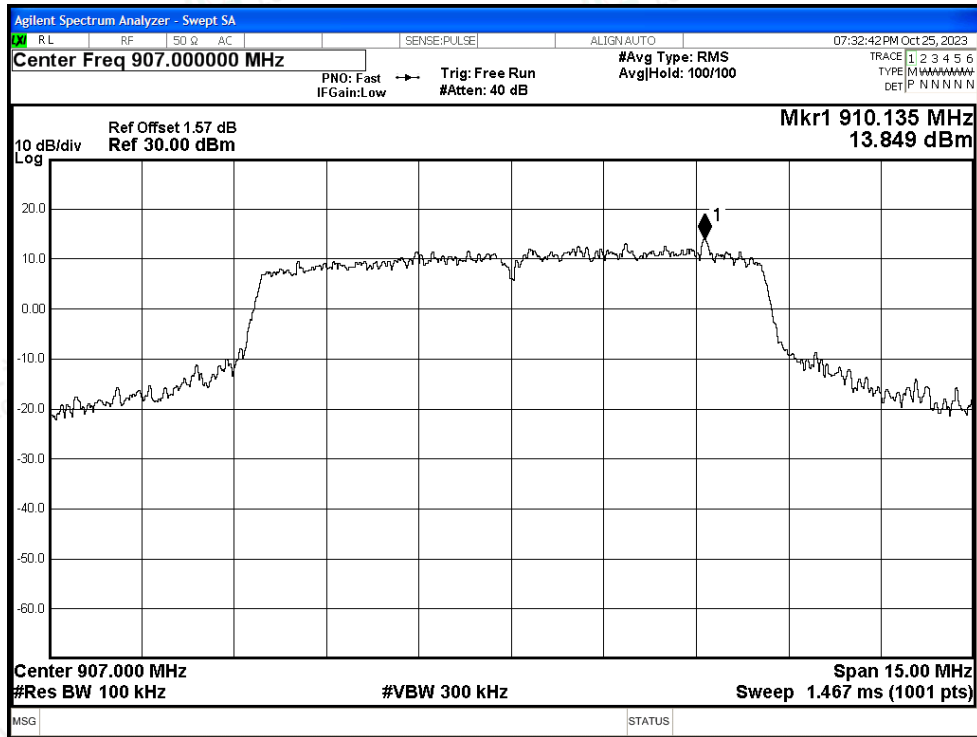


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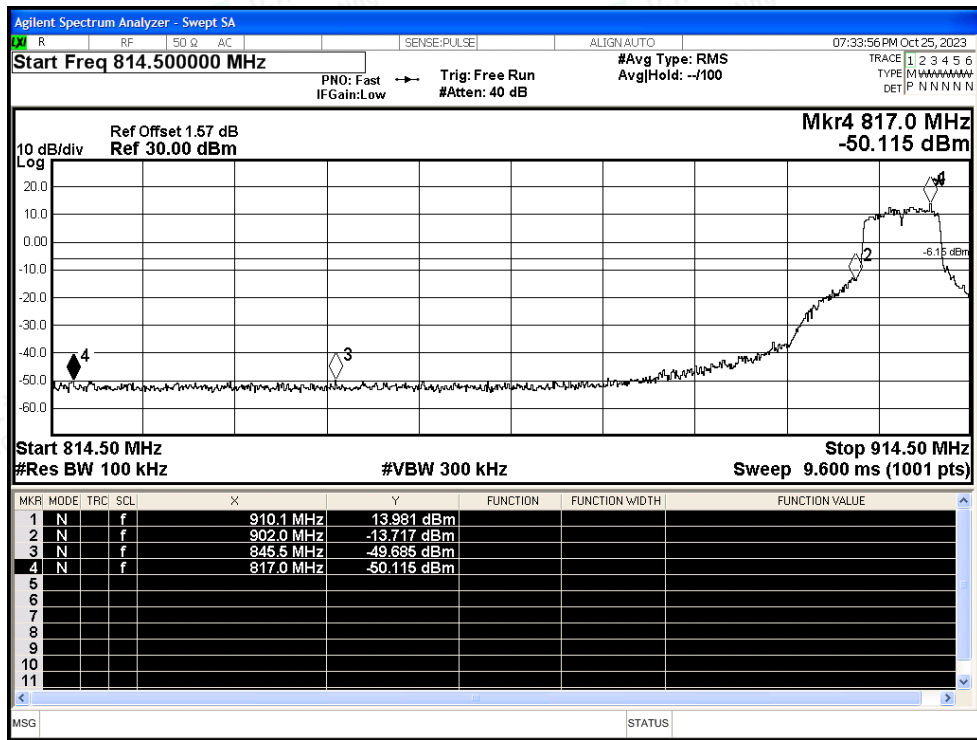


Test Graphs

Band Edge NVNT g-10M 907MHz Ant0 Ref

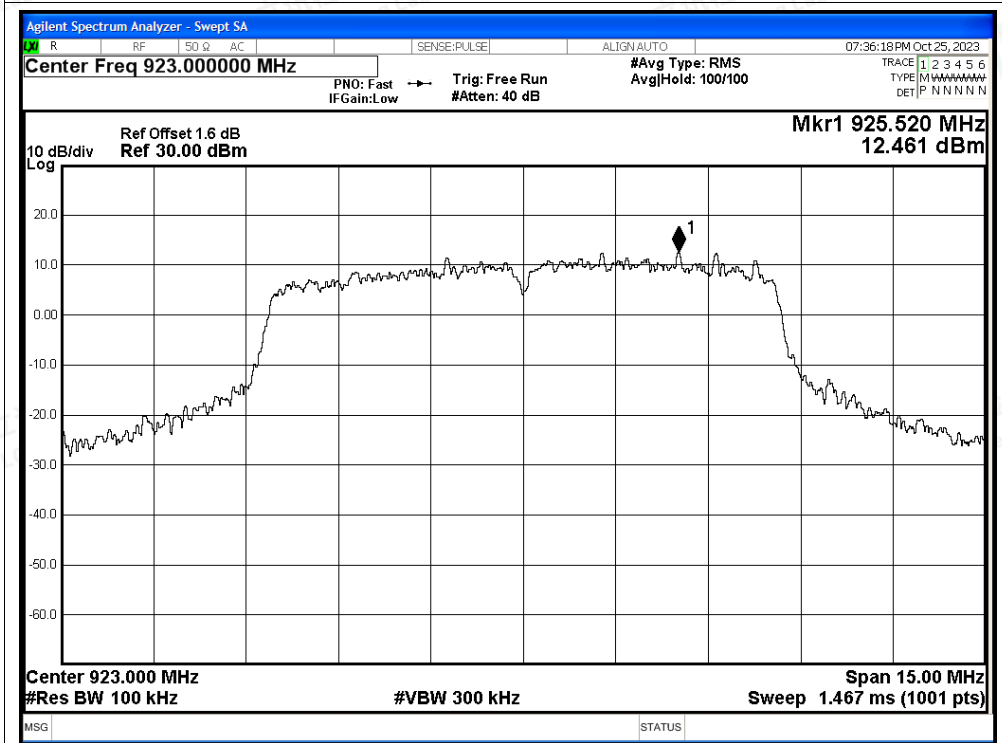


Band Edge NVNT g-10M 907MHz Ant0 Emission

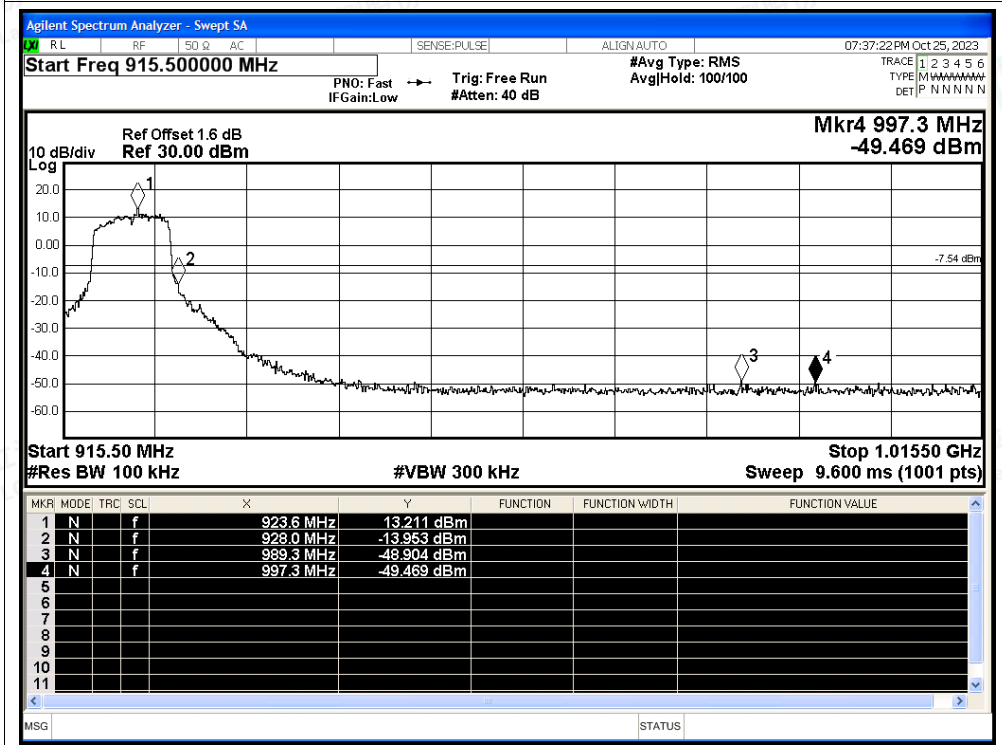




Band Edge NVNT g-10M 923MHz Ant0 Ref

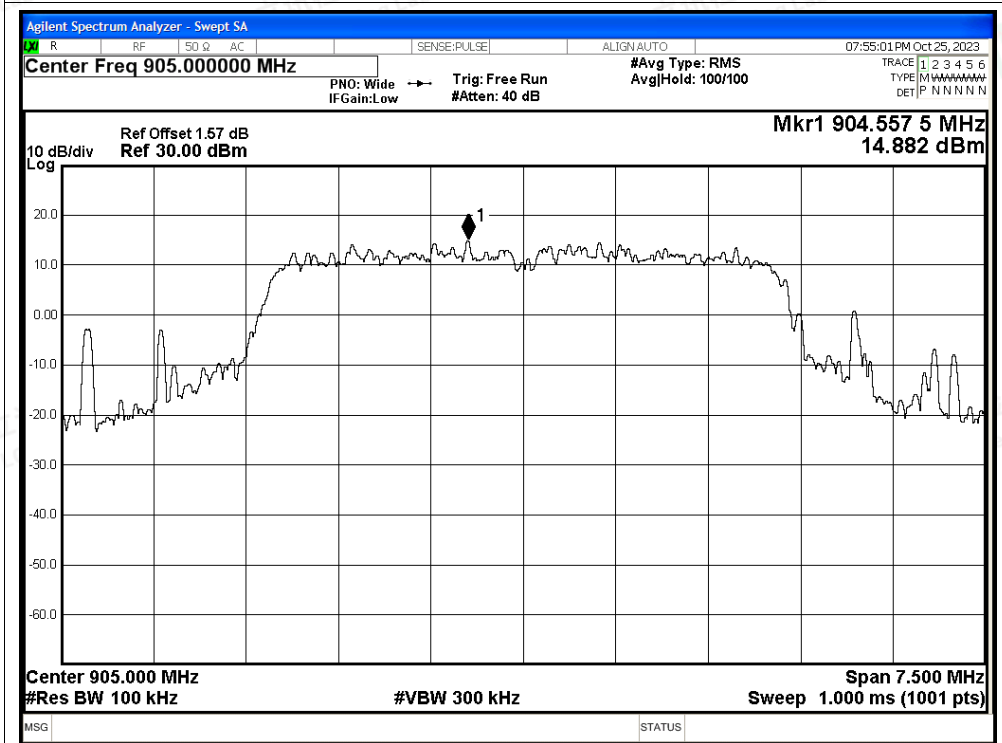


Band Edge NVNT g-10M 923MHz Ant0 Emission

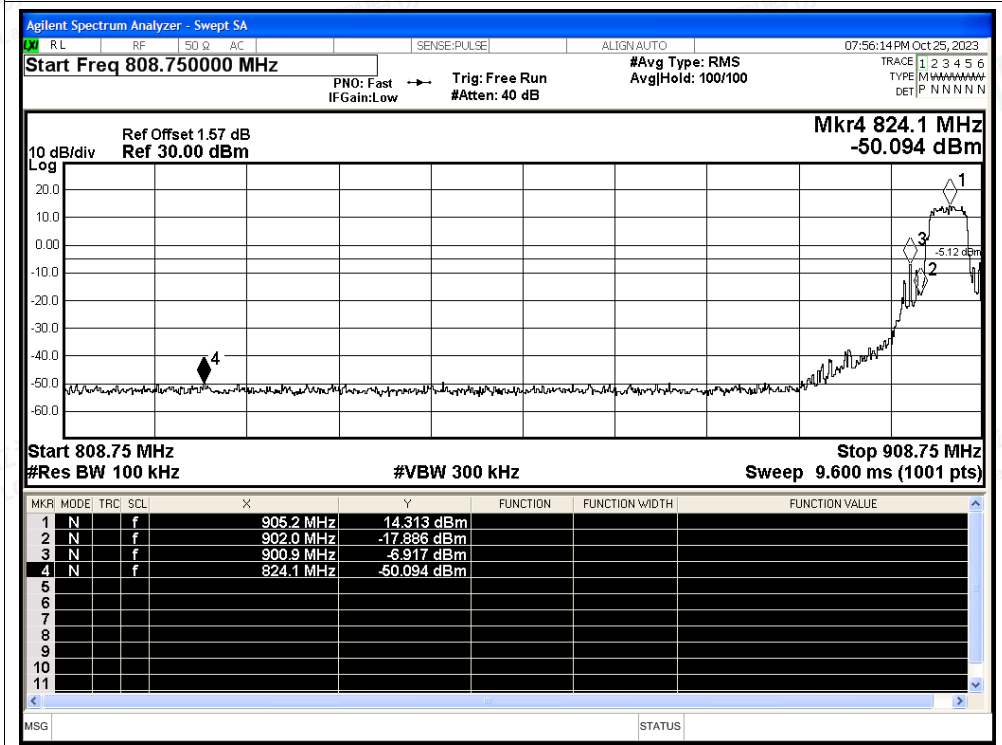




Band Edge NVNT g-5M 905MHz Ant0 Ref

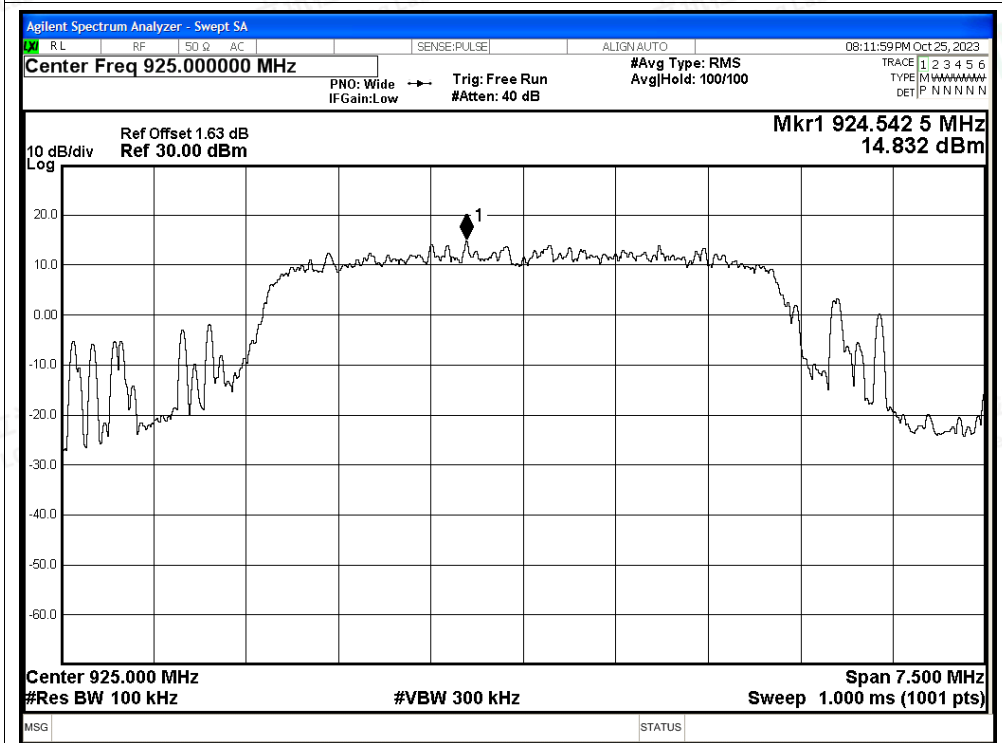


Band Edge NVNT g-5M 905MHz Ant0 Emission

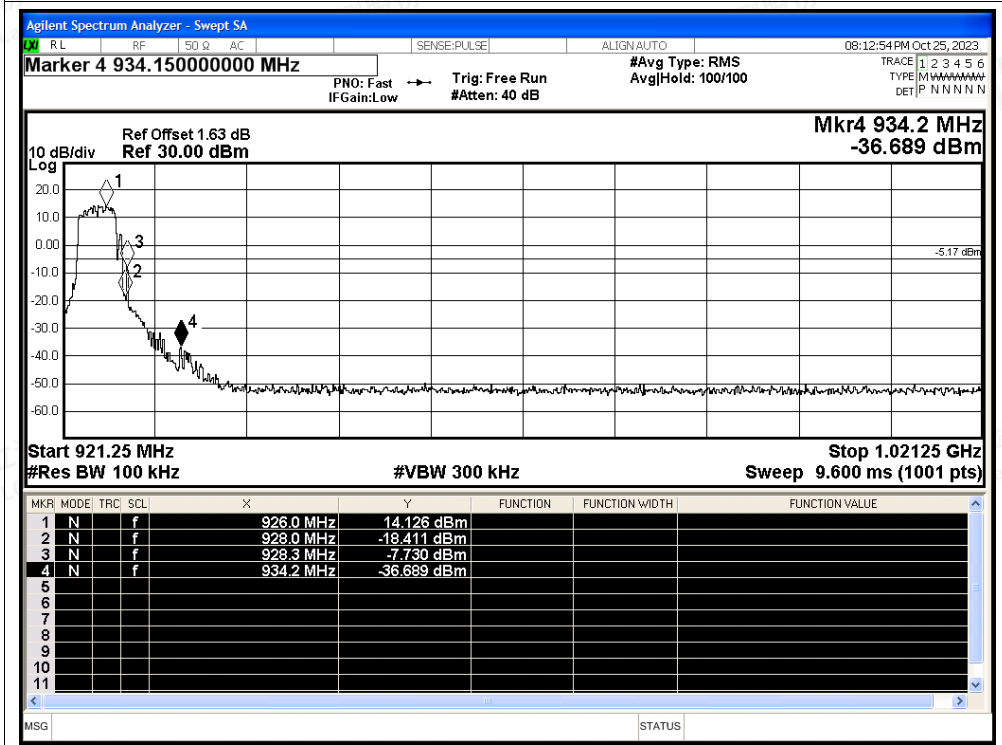




Band Edge NVNT g-5M 925MHz Ant0 Ref

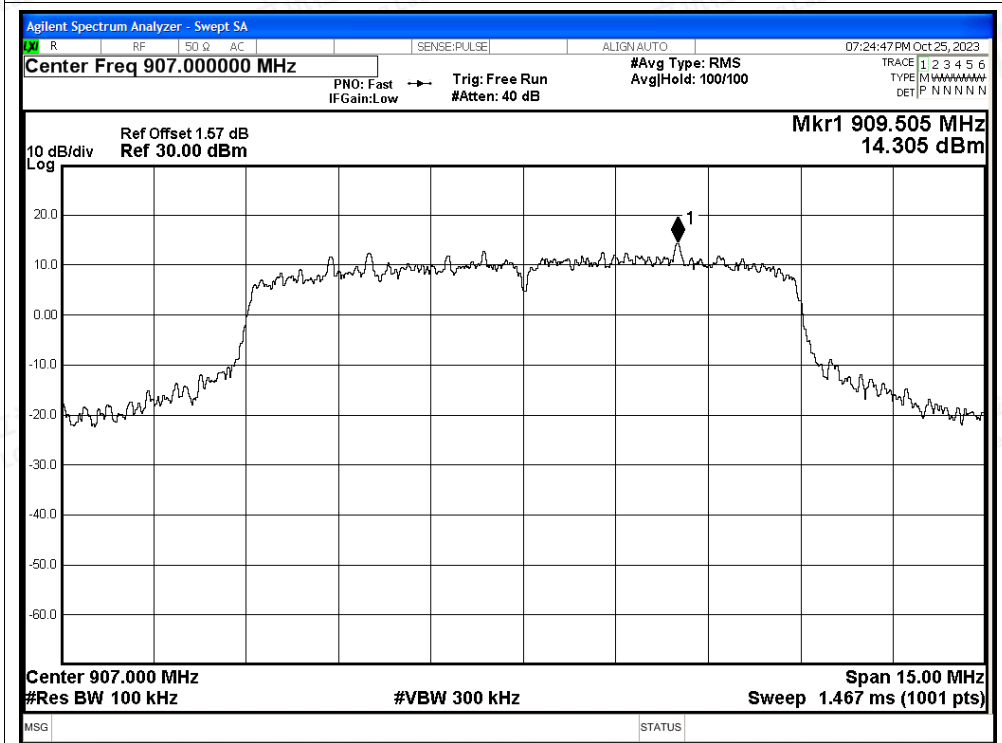


Band Edge NVNT g-5M 925MHz Ant0 Emission

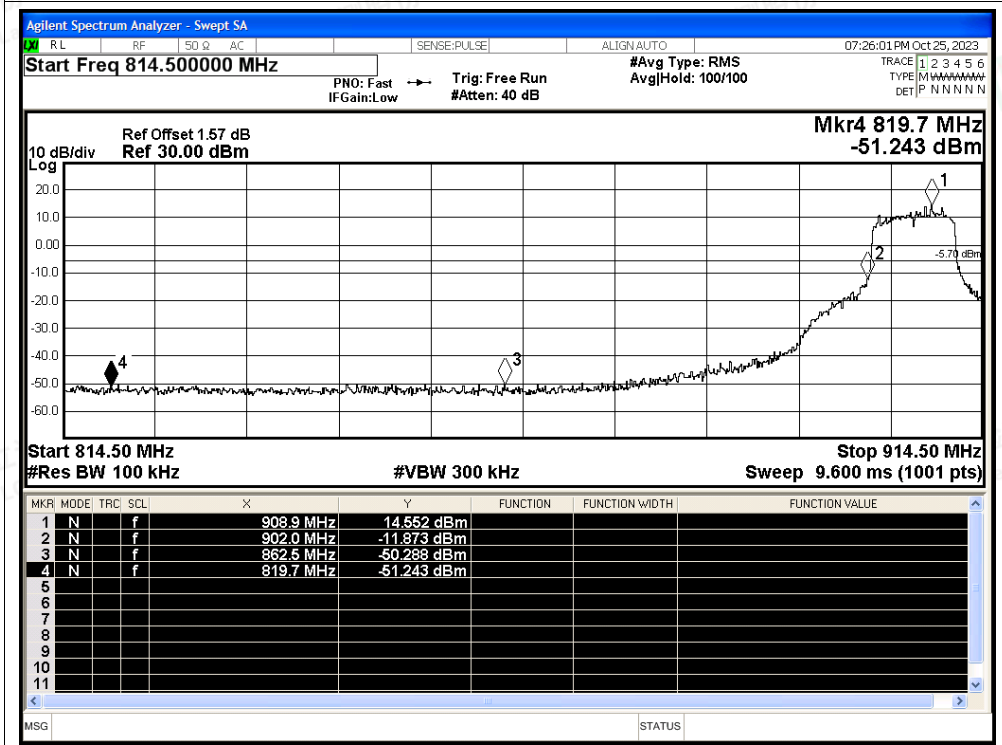




Band Edge NVNT n-10M 907MHz Ant0 Ref

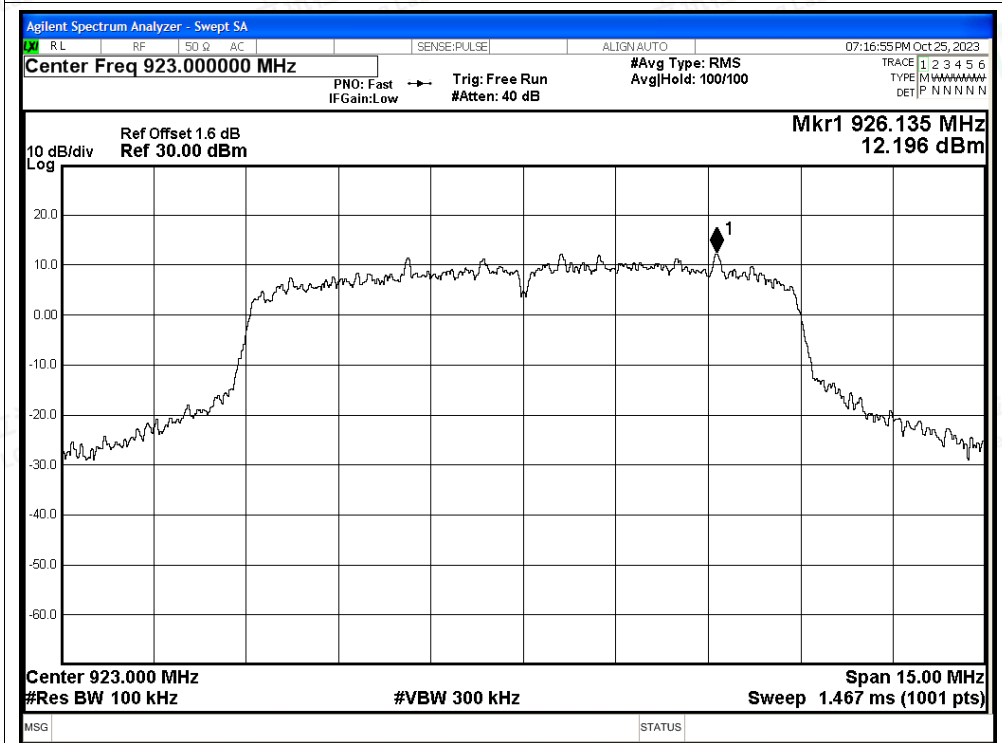


Band Edge NVNT n-10M 907MHz Ant0 Emission

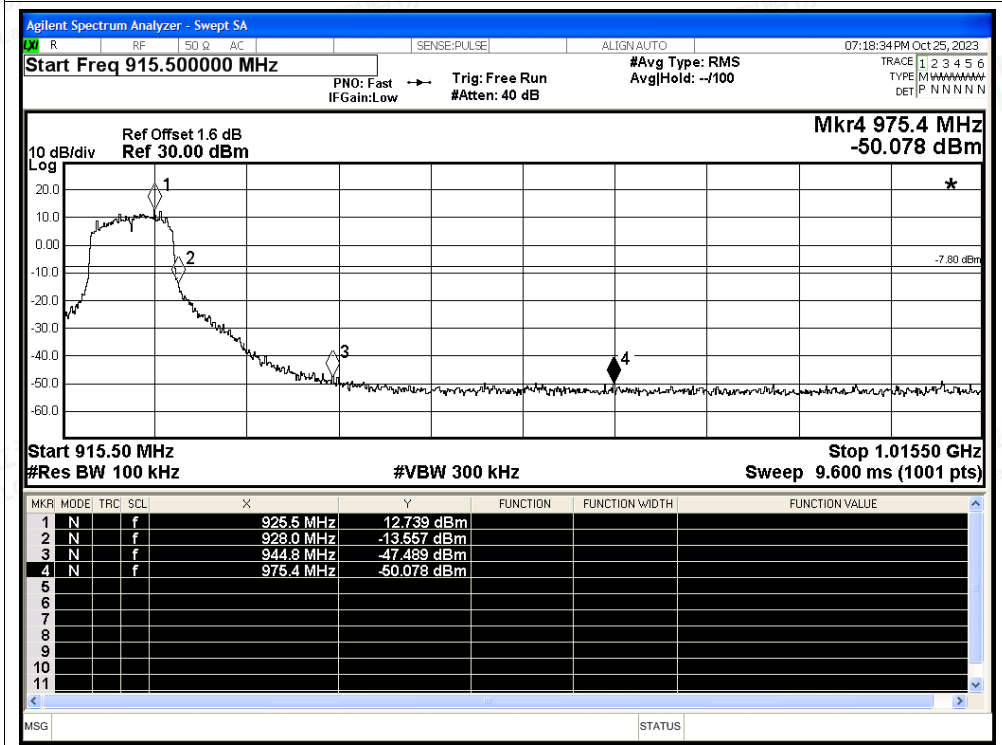




Band Edge NVNT n-10M 923MHz Ant0 Ref

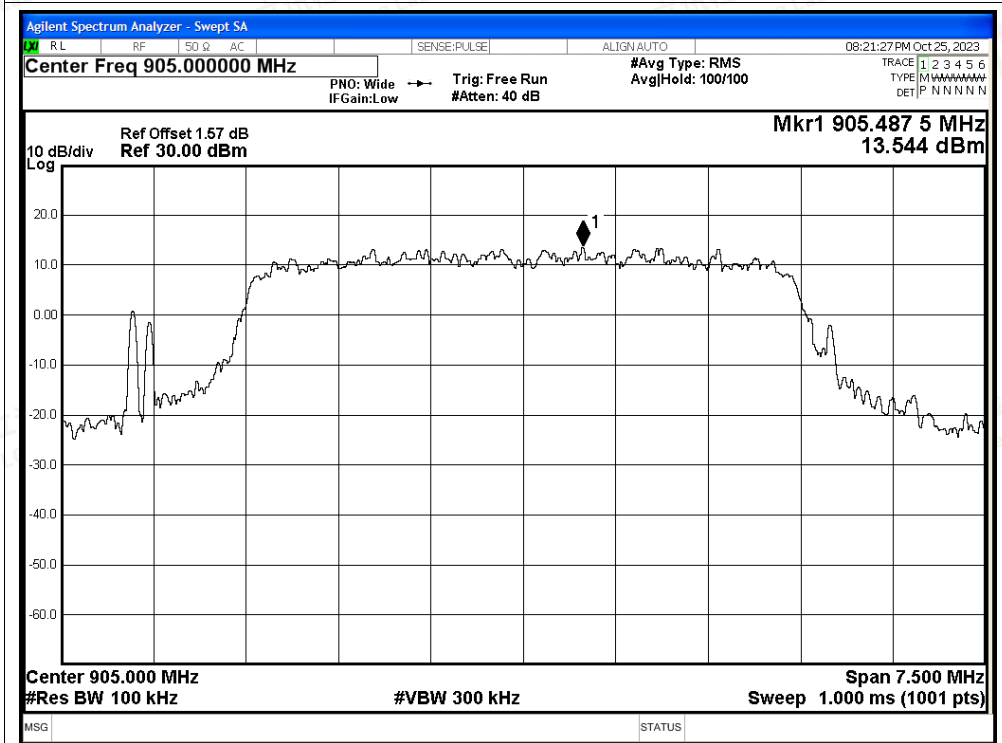


Band Edge NVNT n-10M 923MHz Ant0 Emission

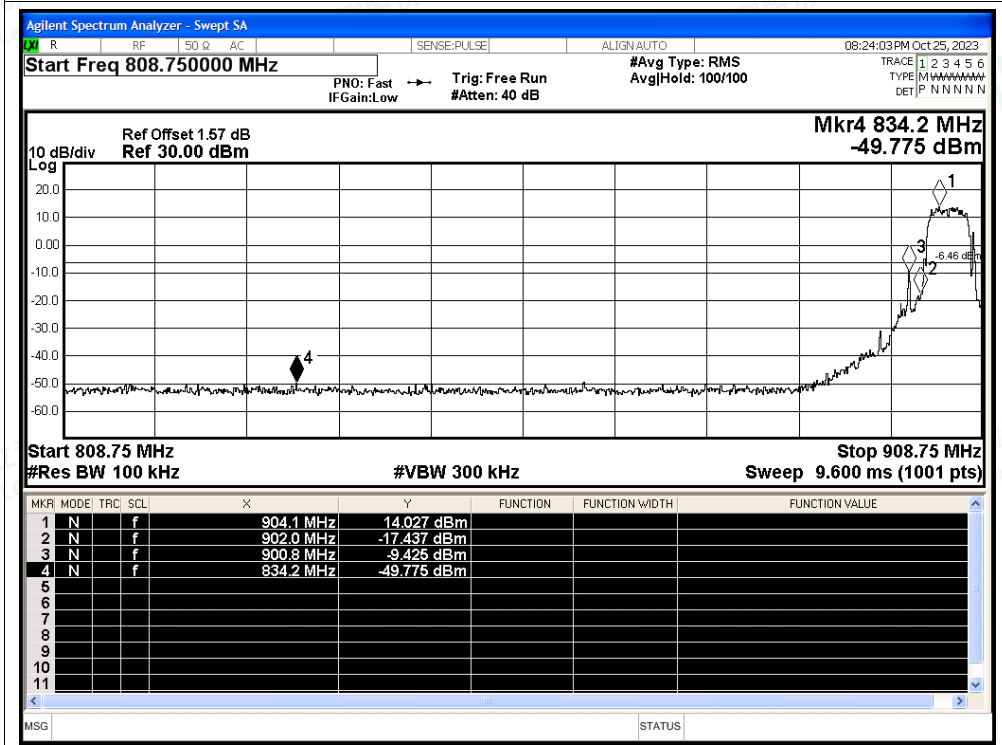




Band Edge NVNT n-5M 905MHz Ant0 Ref

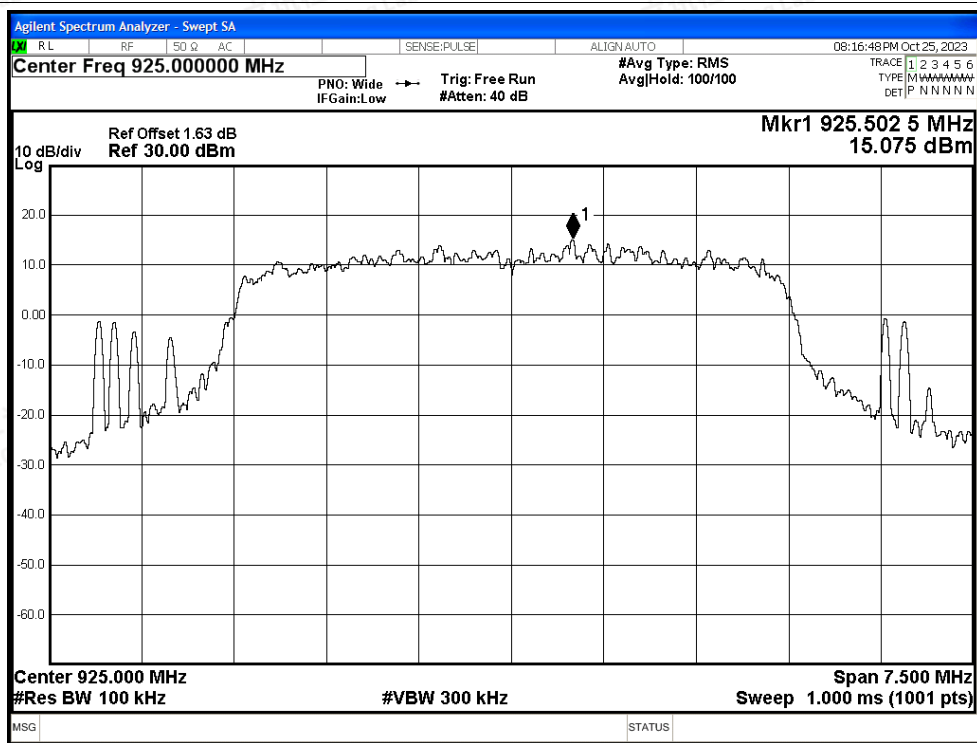


Band Edge NVNT n-5M 905MHz Ant0 Emission

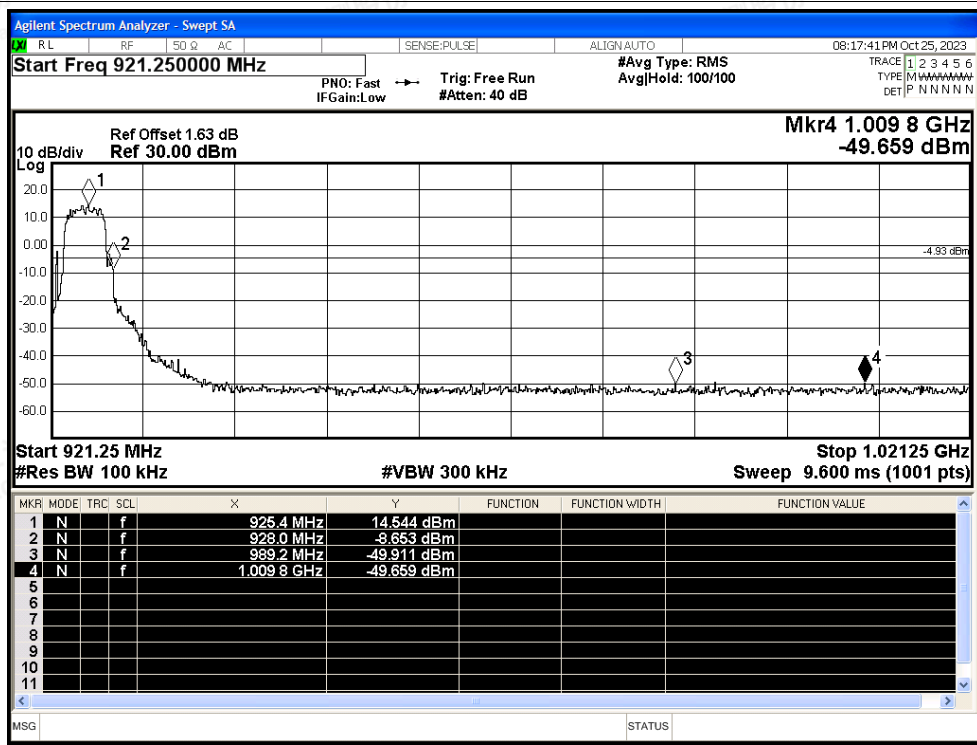




Band Edge NVNT n-5M 925MHz Ant0 Ref



Band Edge NVNT n-5M 925MHz Ant0 Emission





B.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Limit (dBc)	Verdict
NVNT	g-10M	907	Ant0	-20	Pass
NVNT	g-10M	915	Ant0	-20	Pass
NVNT	g-10M	923	Ant0	-20	Pass
NVNT	g-5M	905	Ant0	-20	Pass
NVNT	g-5M	915	Ant0	-20	Pass
NVNT	g-5M	925	Ant0	-20	Pass
NVNT	n-10M	907	Ant0	-20	Pass
NVNT	n-10M	915	Ant0	-20	Pass
NVNT	n-10M	923	Ant0	-20	Pass
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NVNT	n-5M	925	Ant0	-20	Pass

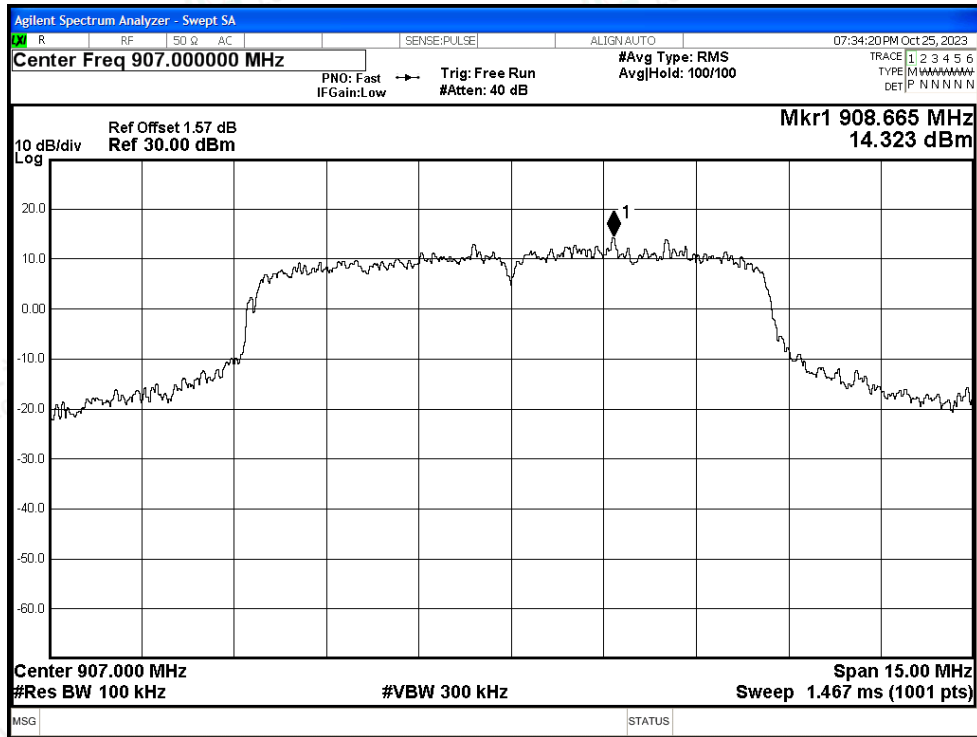


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Scan code to check authenticity

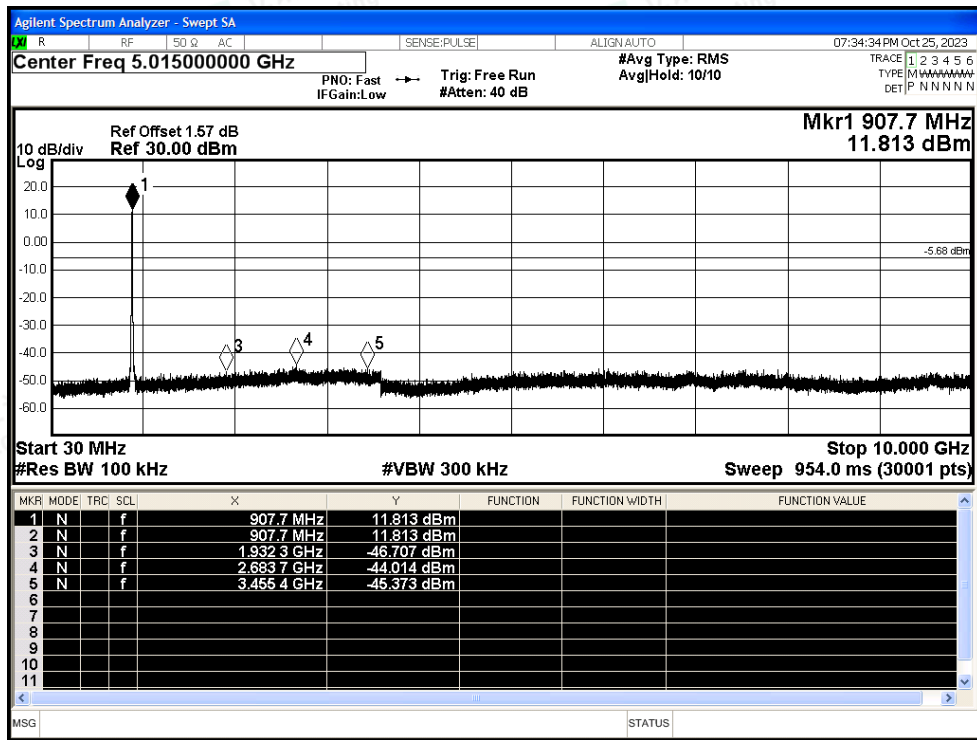


Test Graphs

Tx. Spurious NVNT g-10M 907MHz Ant0 Ref

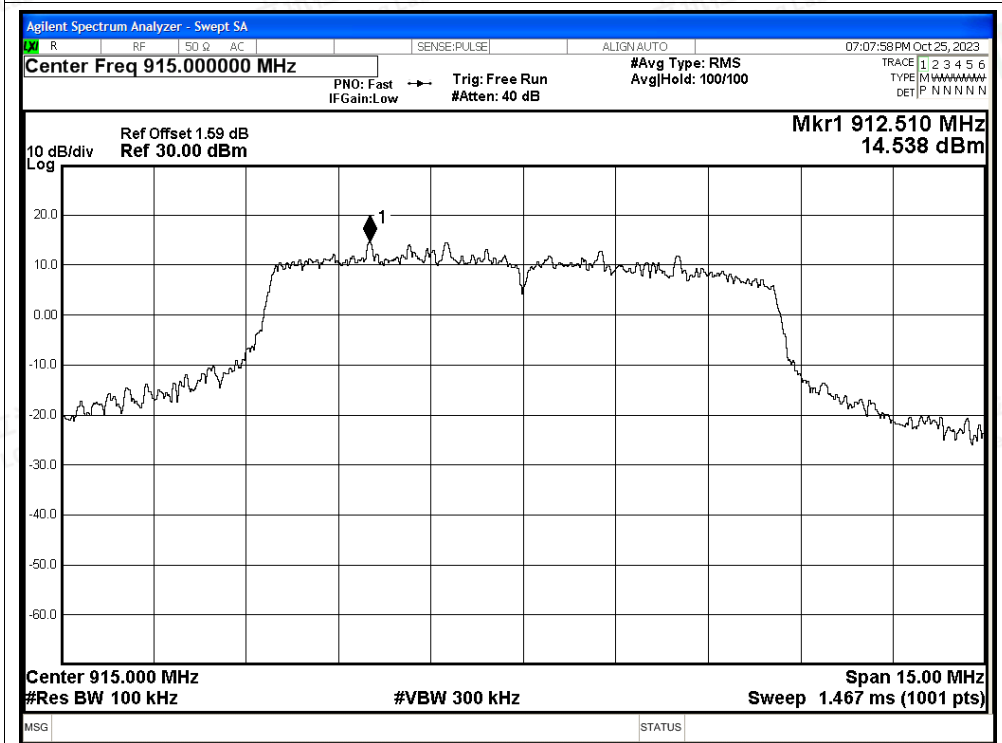


Tx. Spurious NVNT g-10M 907MHz Ant0 Emission

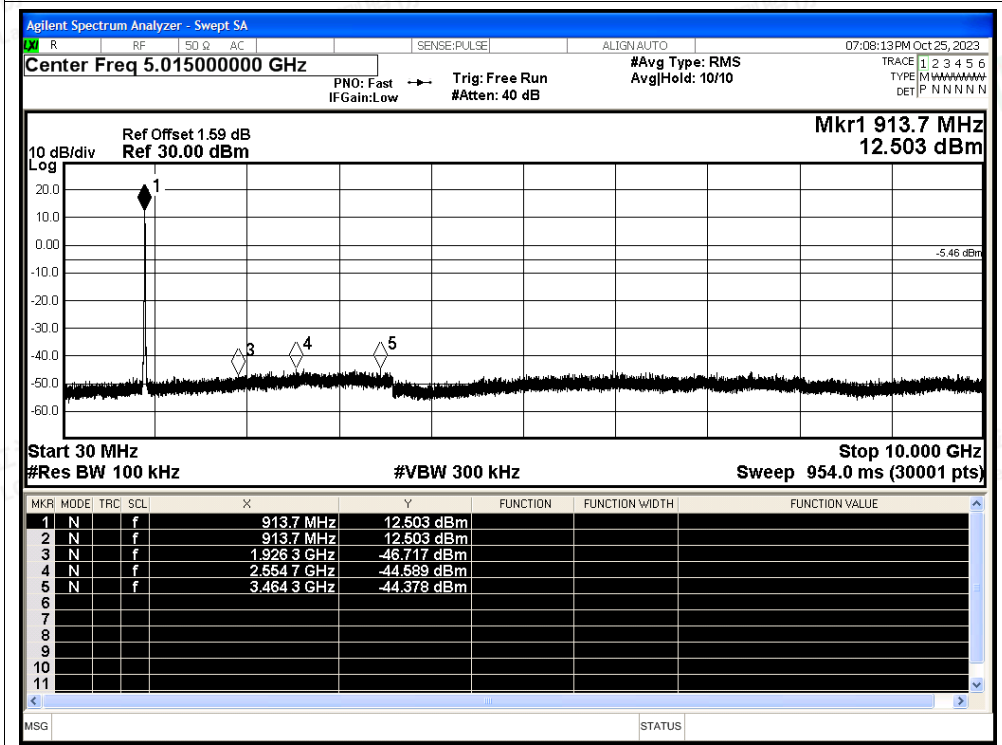




Tx. Spurious NVNT g-10M 915MHz Ant0 Ref

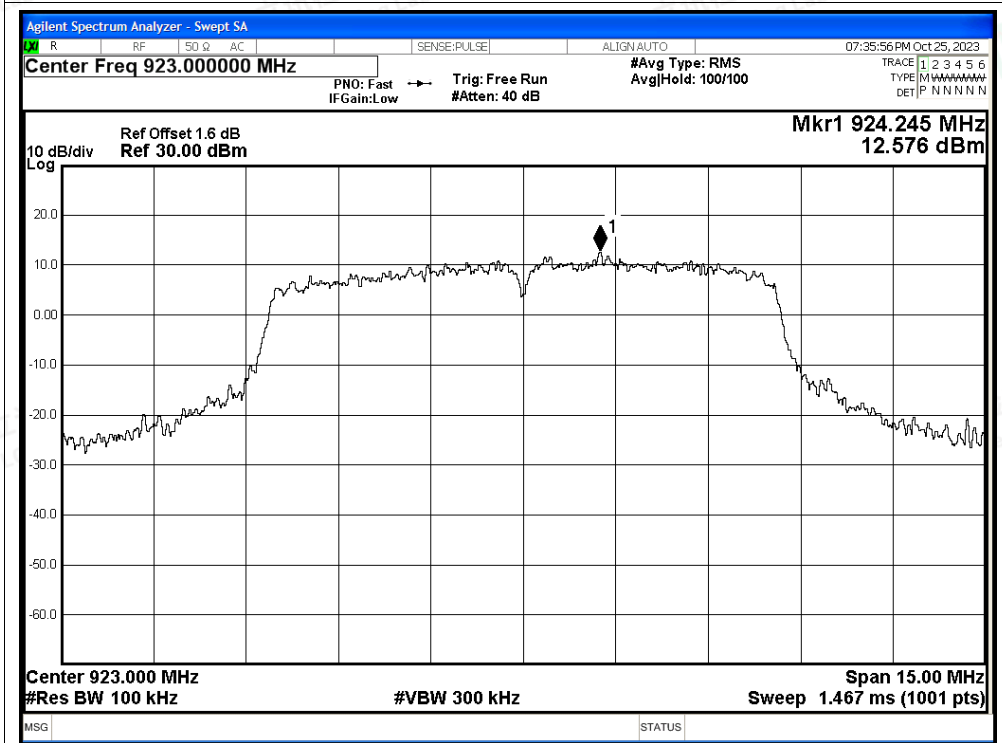


Tx. Spurious NVNT g-10M 915MHz Ant0 Emission

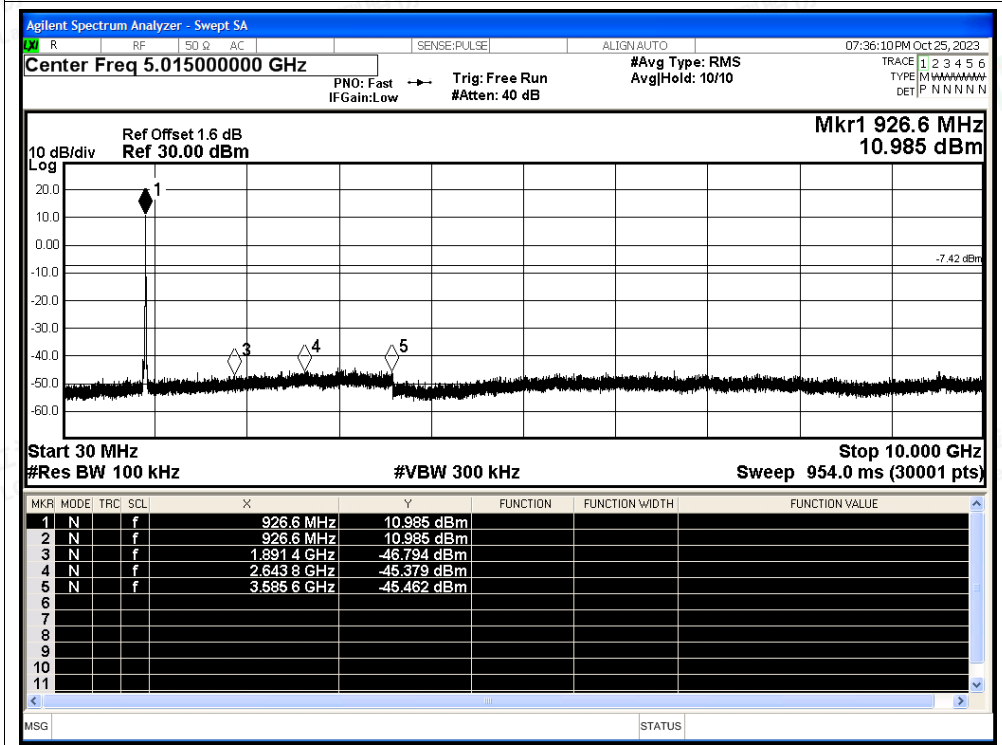




Tx. Spurious NVNT g-10M 923MHz Ant0 Ref

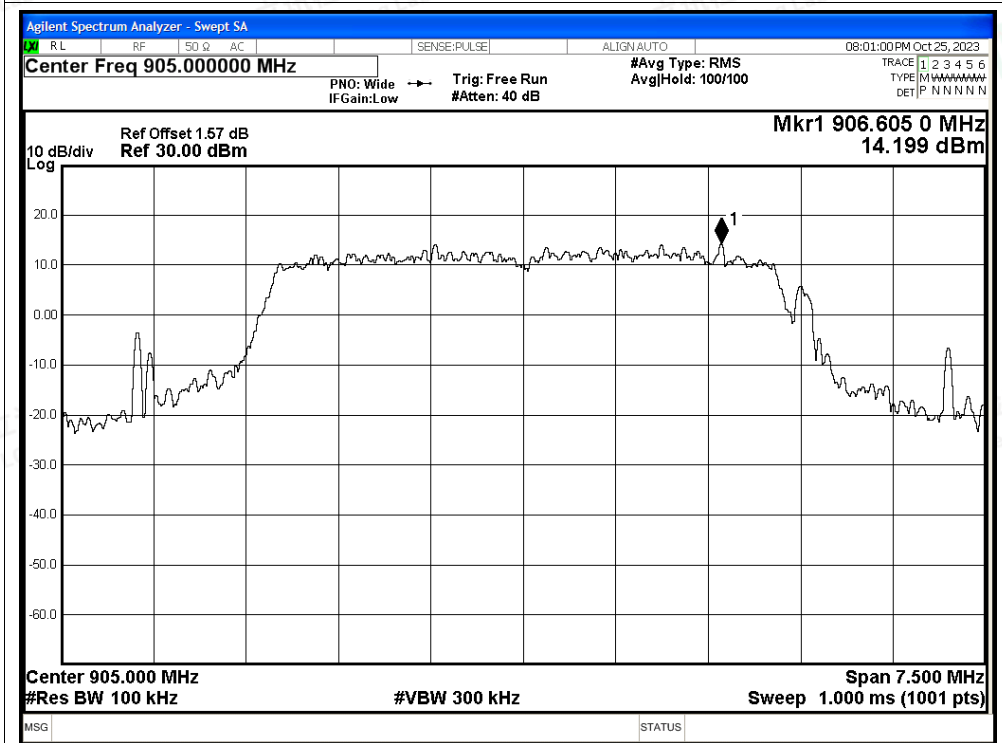


Tx. Spurious NVNT g-10M 923MHz Ant0 Emission

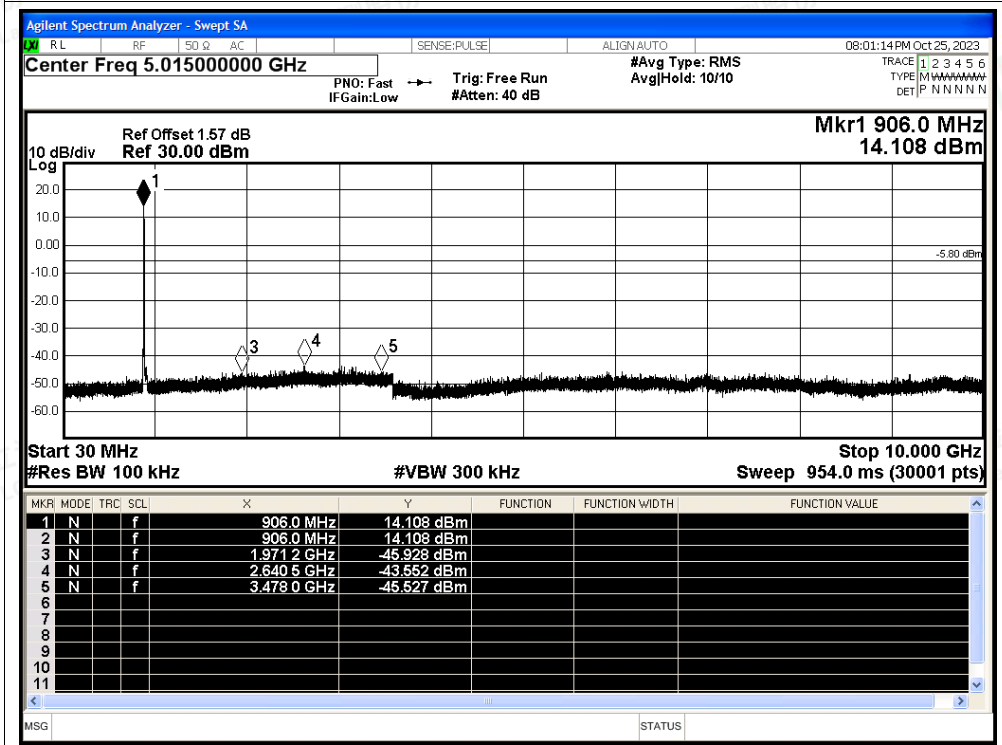




Tx. Spurious NVNT g-5M 905MHz Ant0 Ref

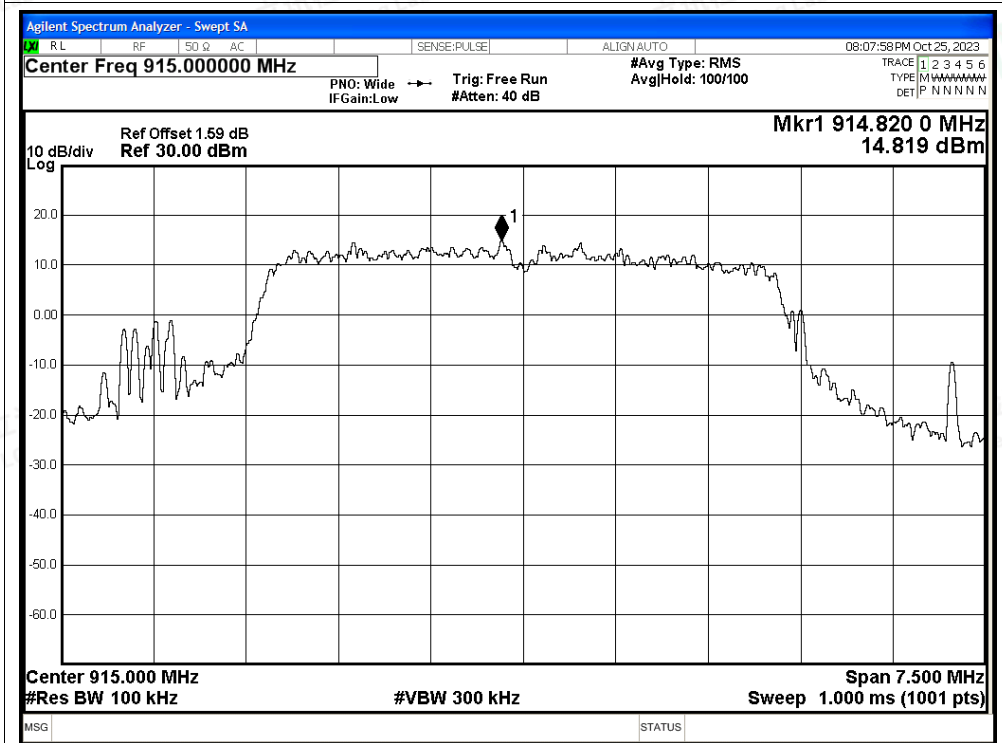


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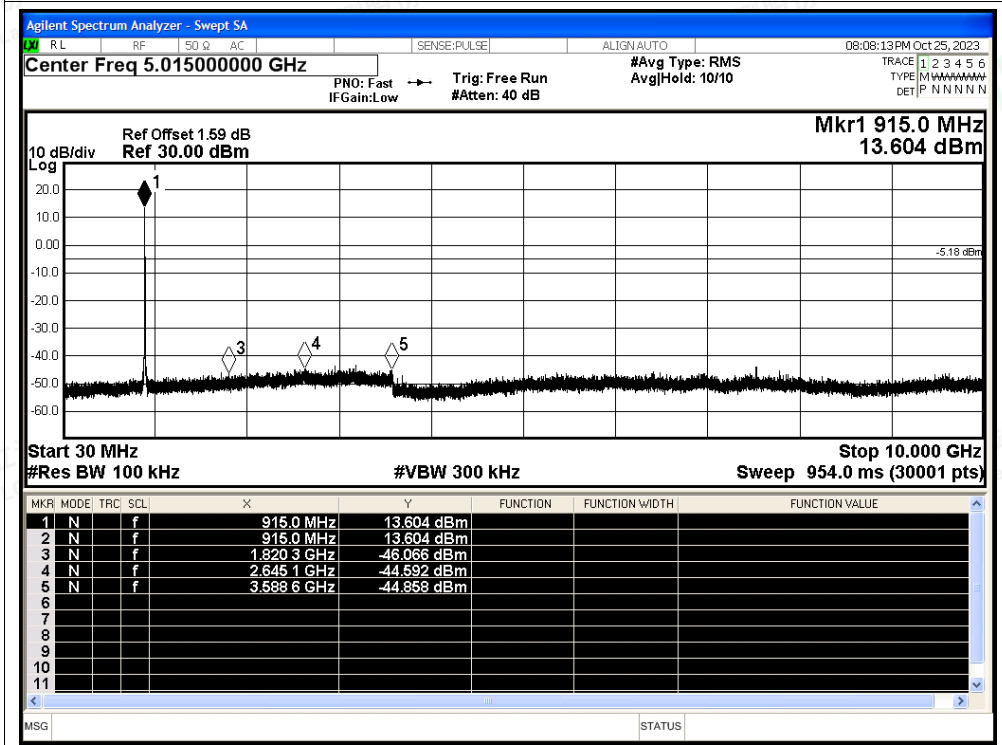




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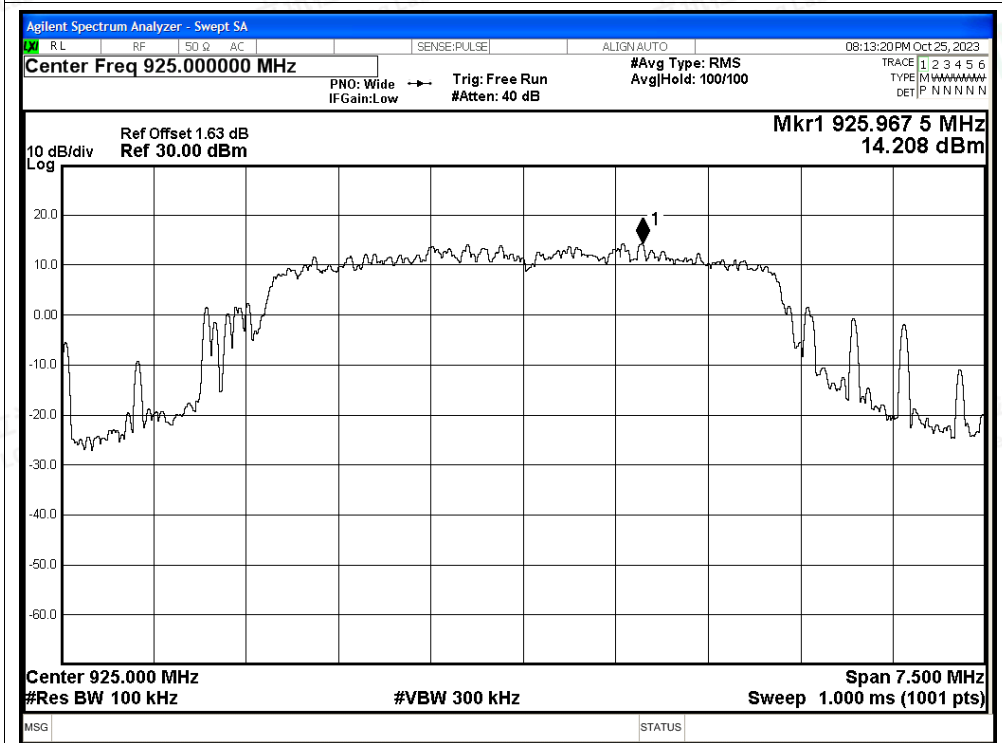


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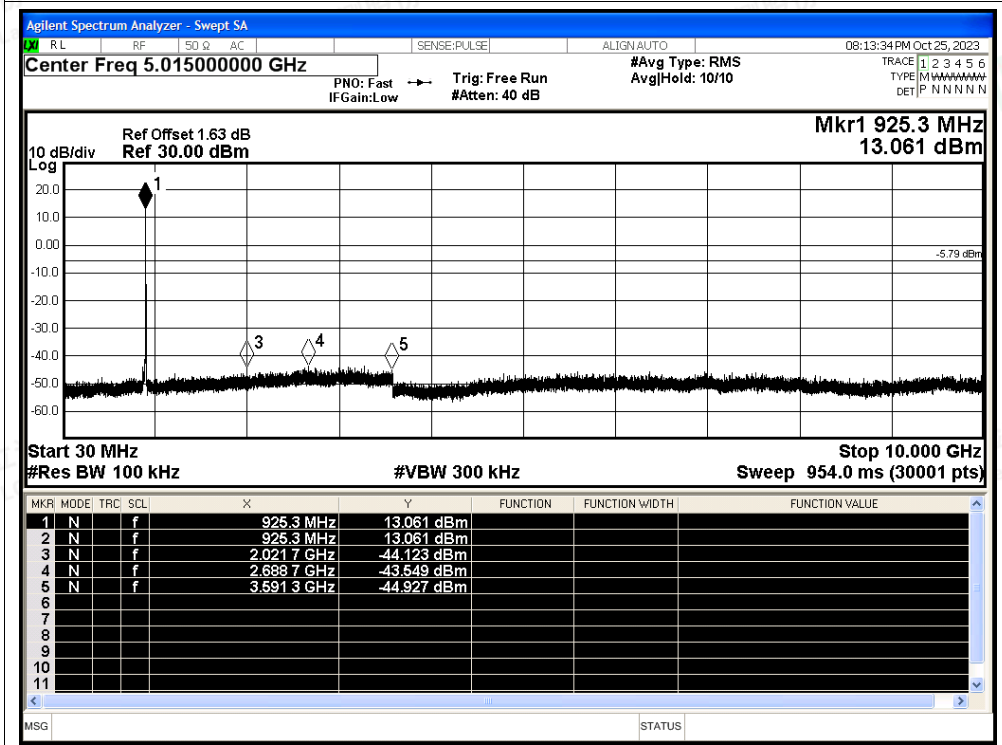




Tx. Spurious NVNT g-5M 925MHz Ant0 Ref

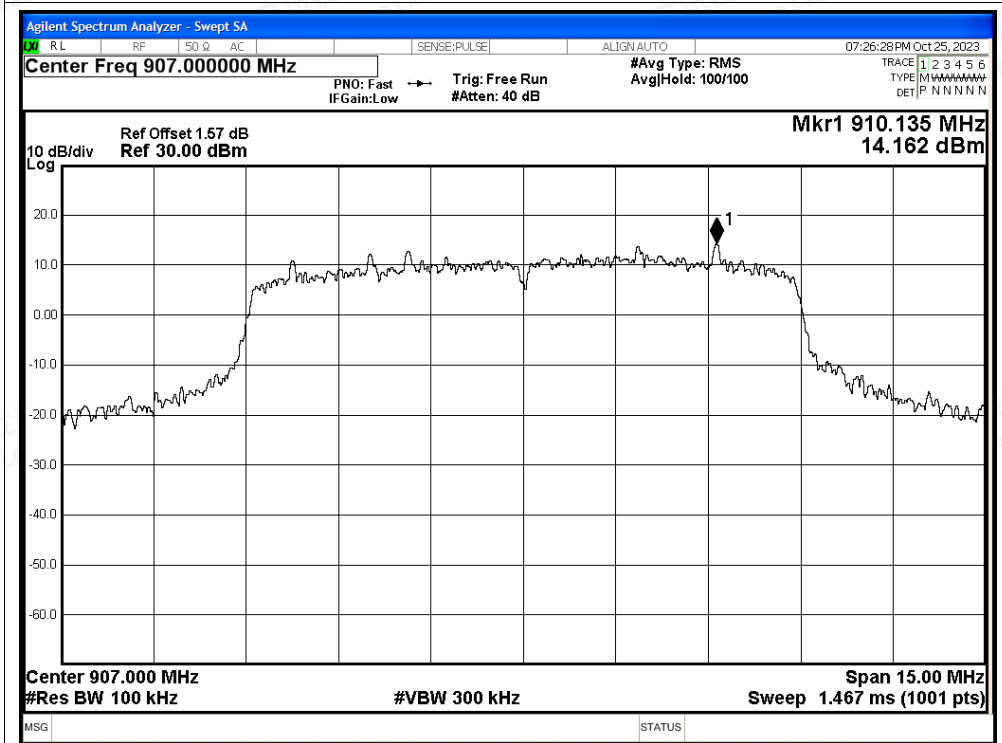


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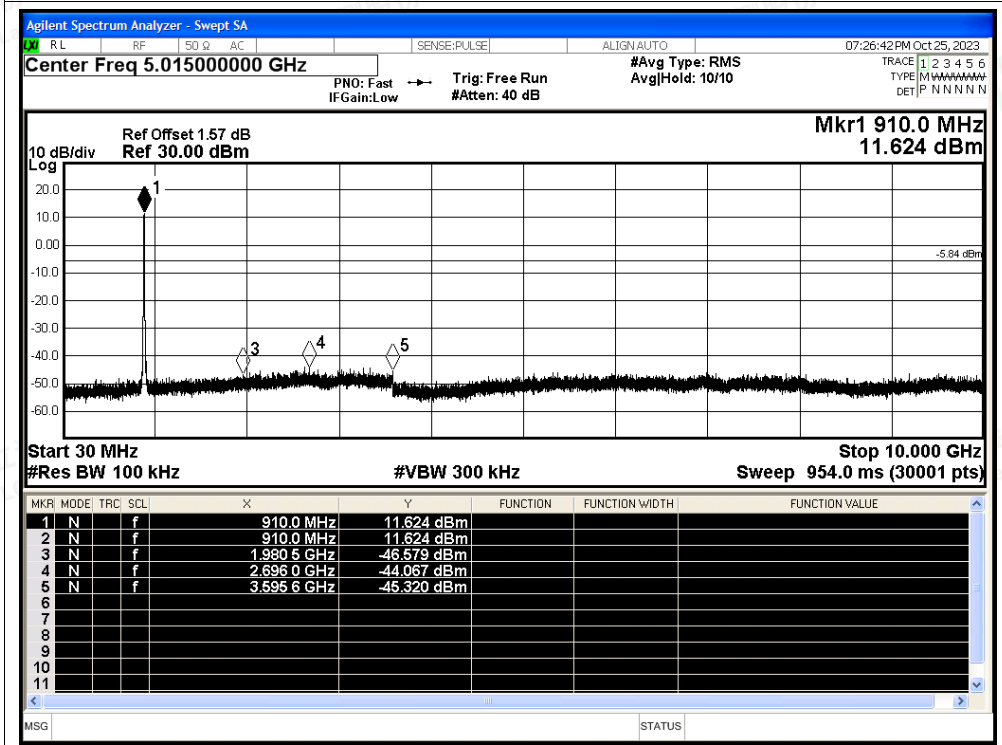




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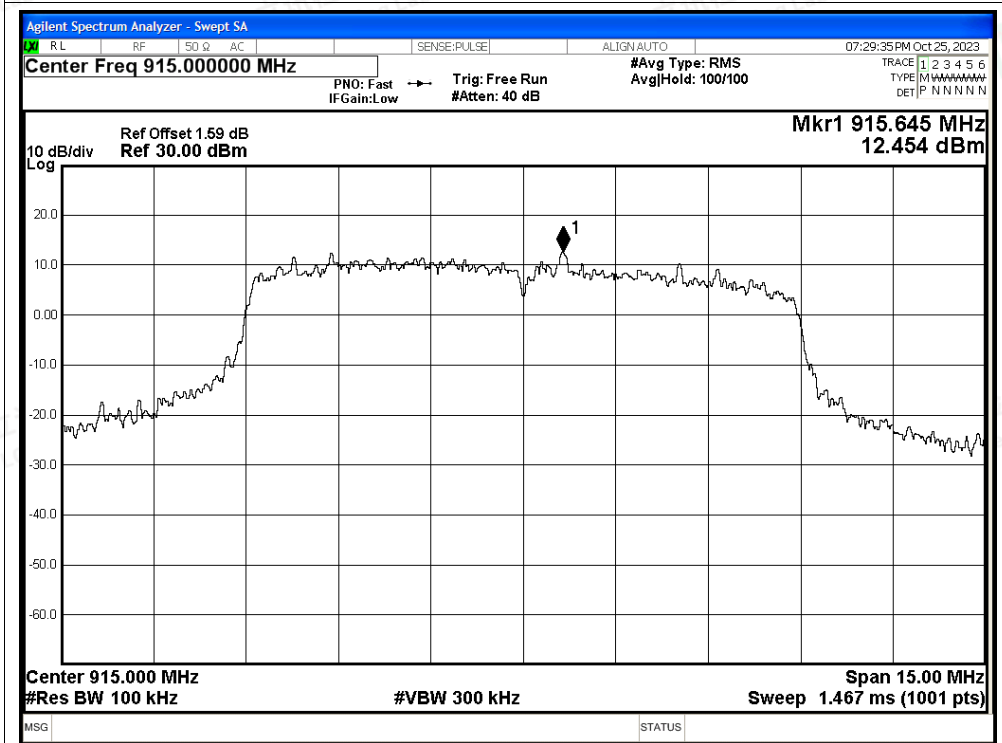


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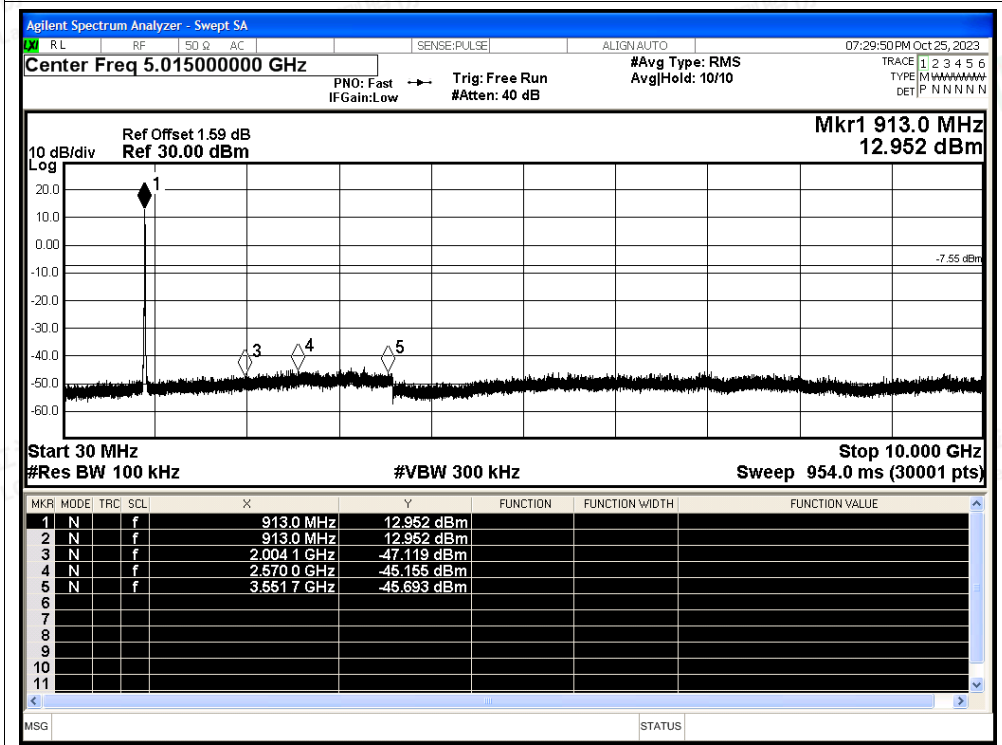




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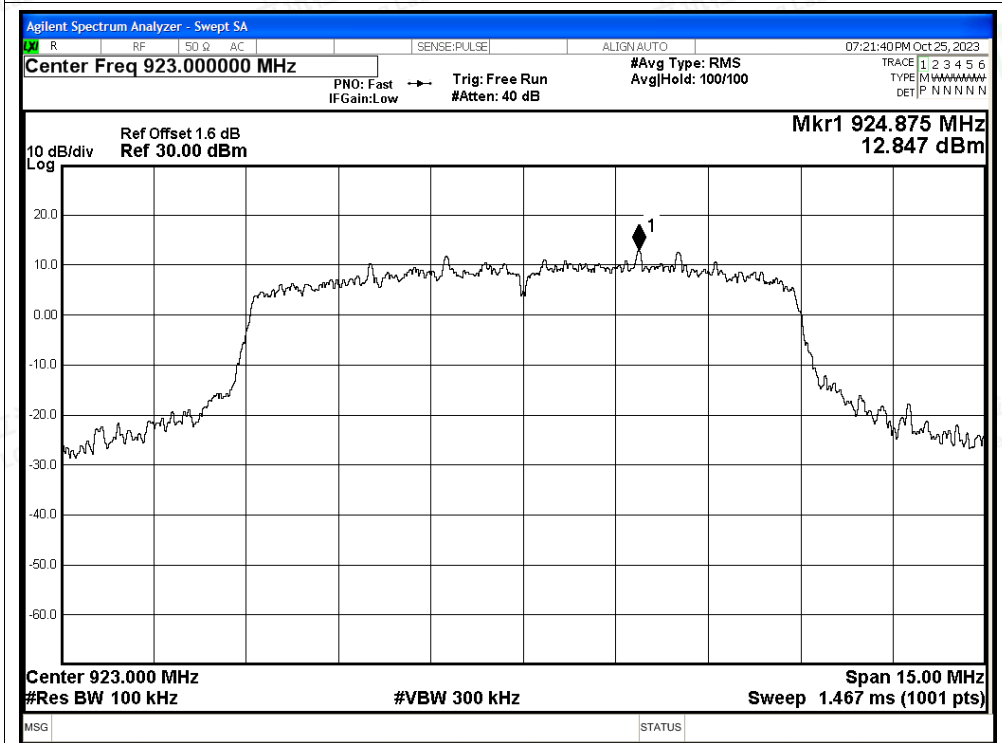


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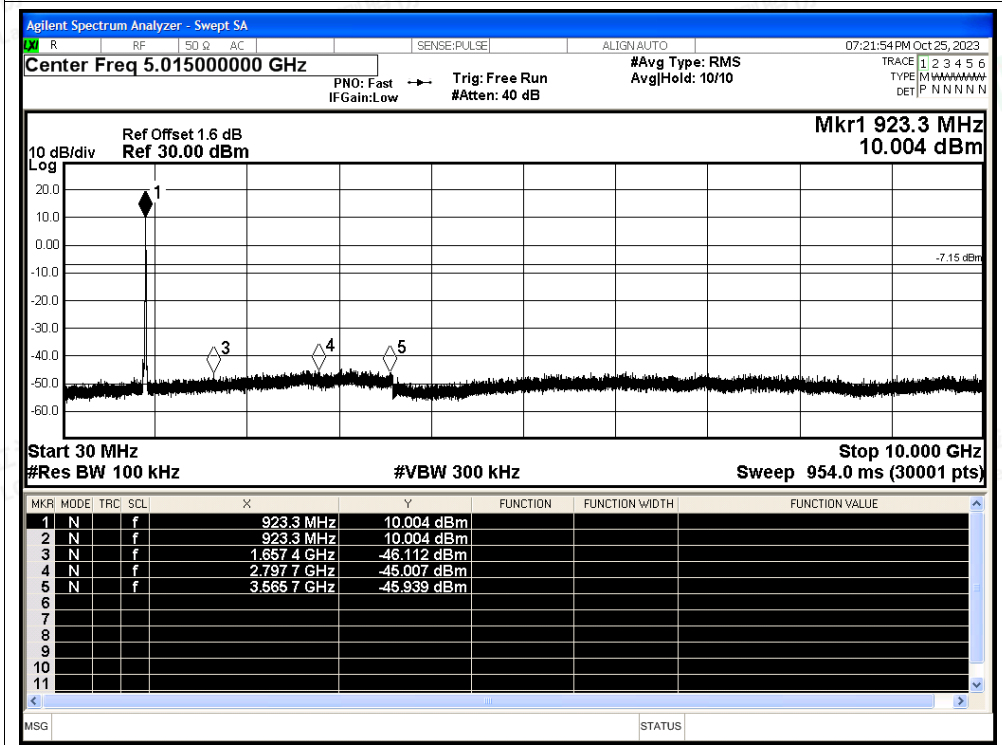




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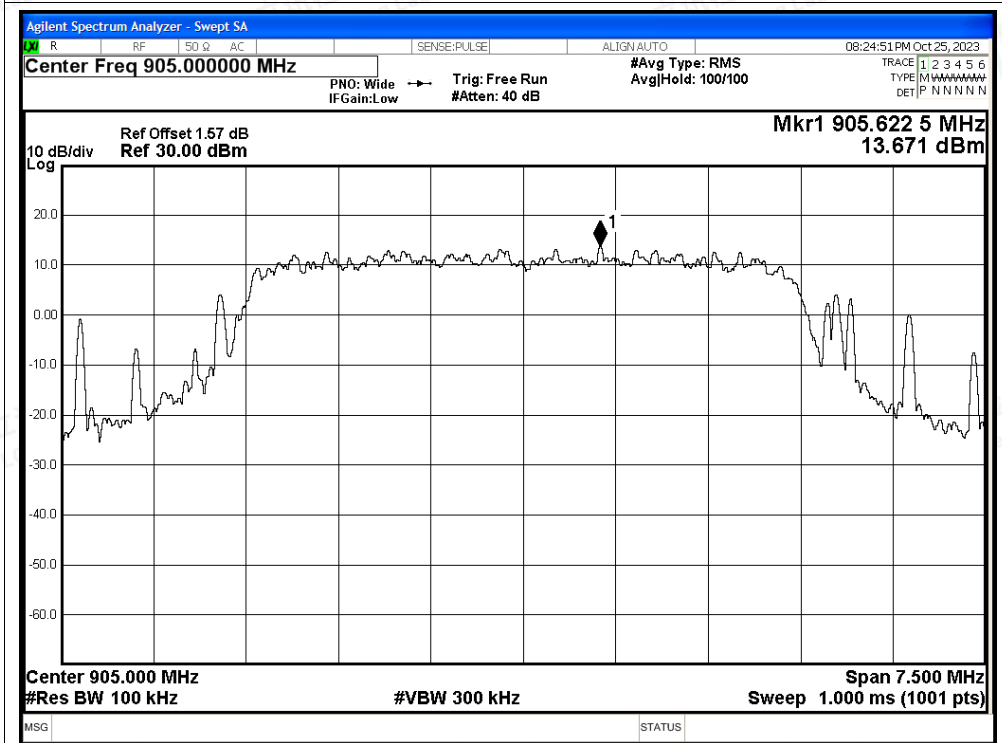


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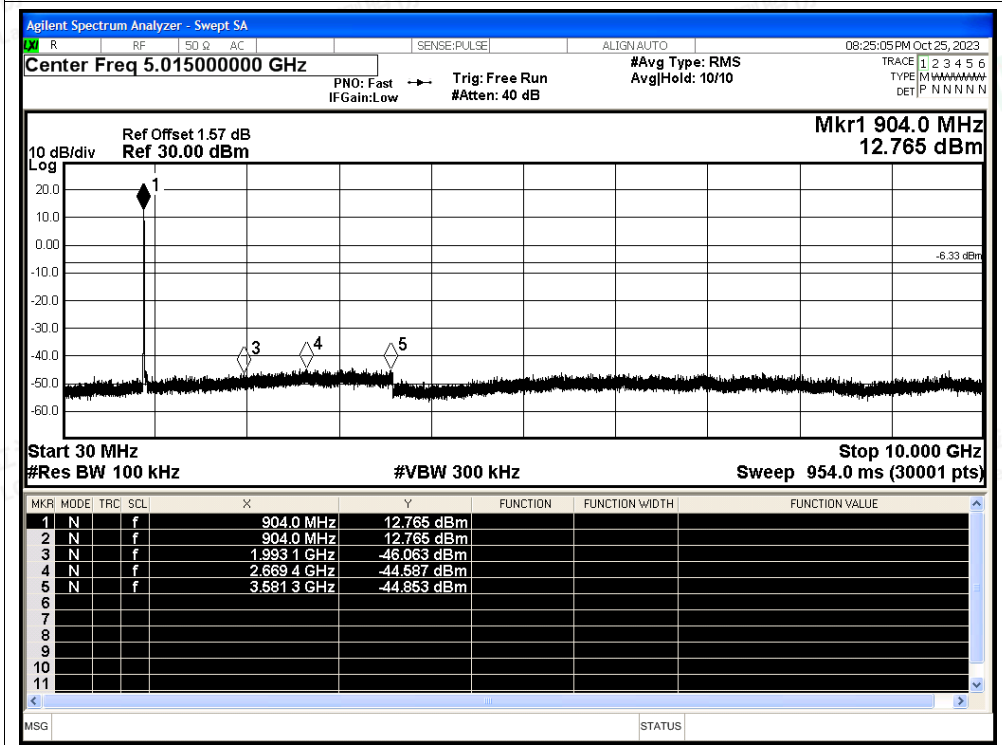




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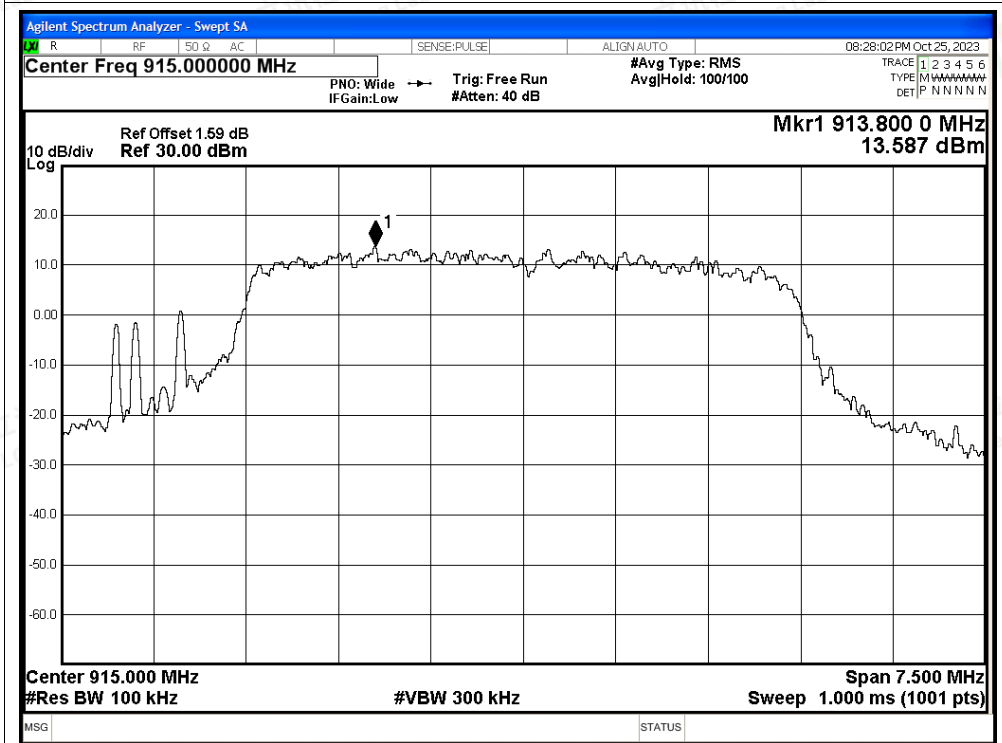


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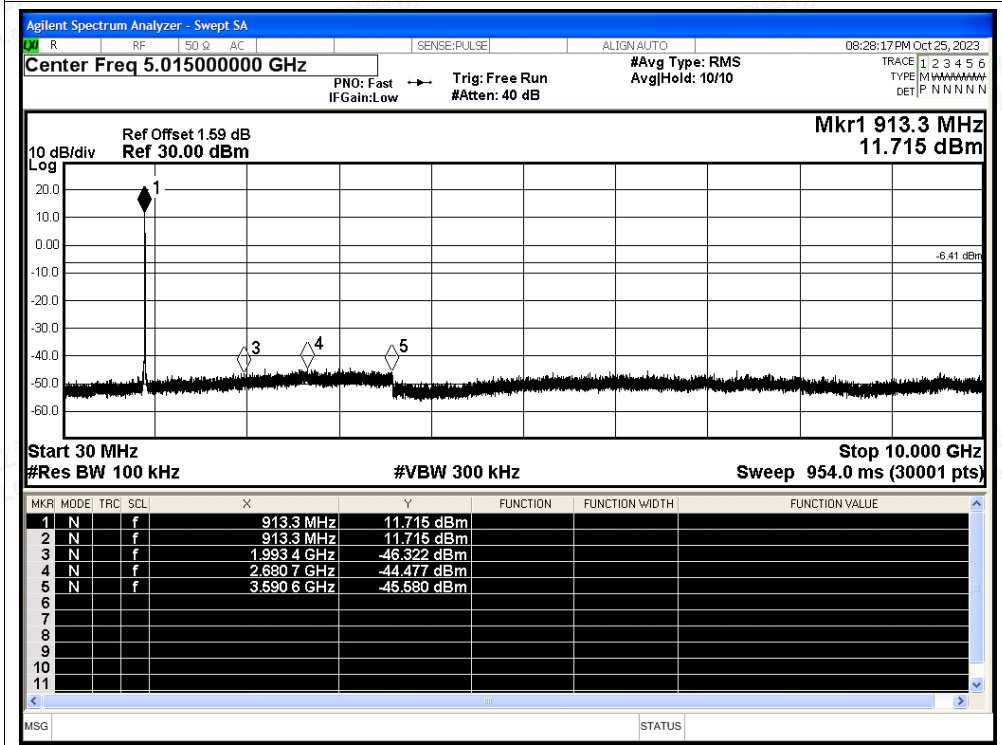




Tx. Spurious NVNT n-5M 915MHz Ant0 Ref

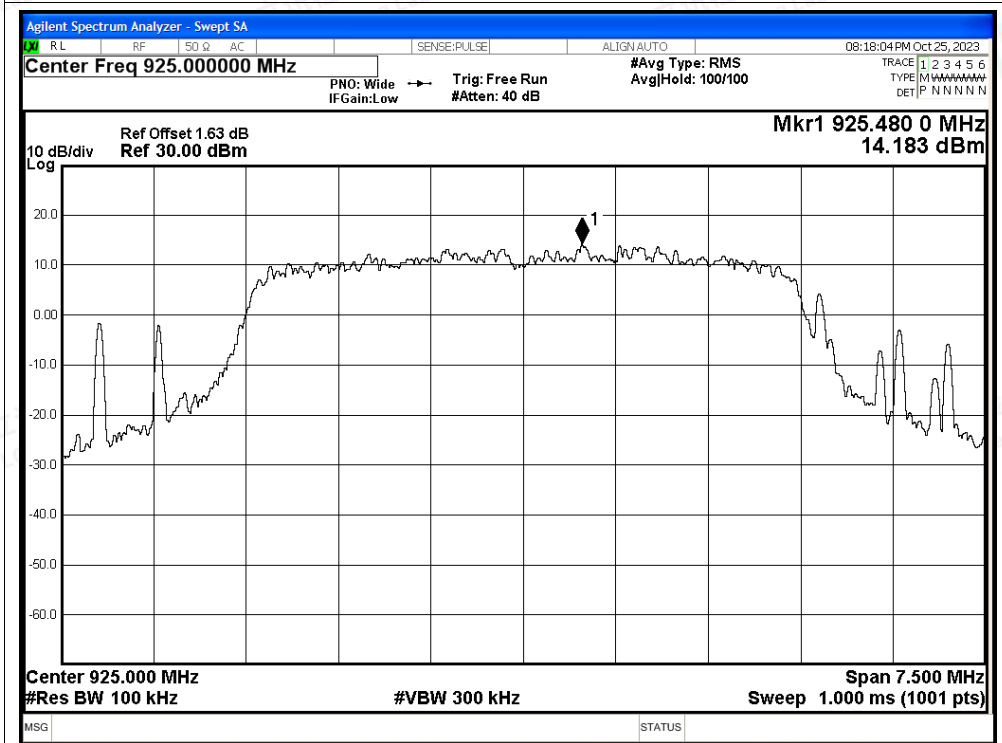


Tx. Spurious NVNT n-5M 915MHz Ant0 Emission

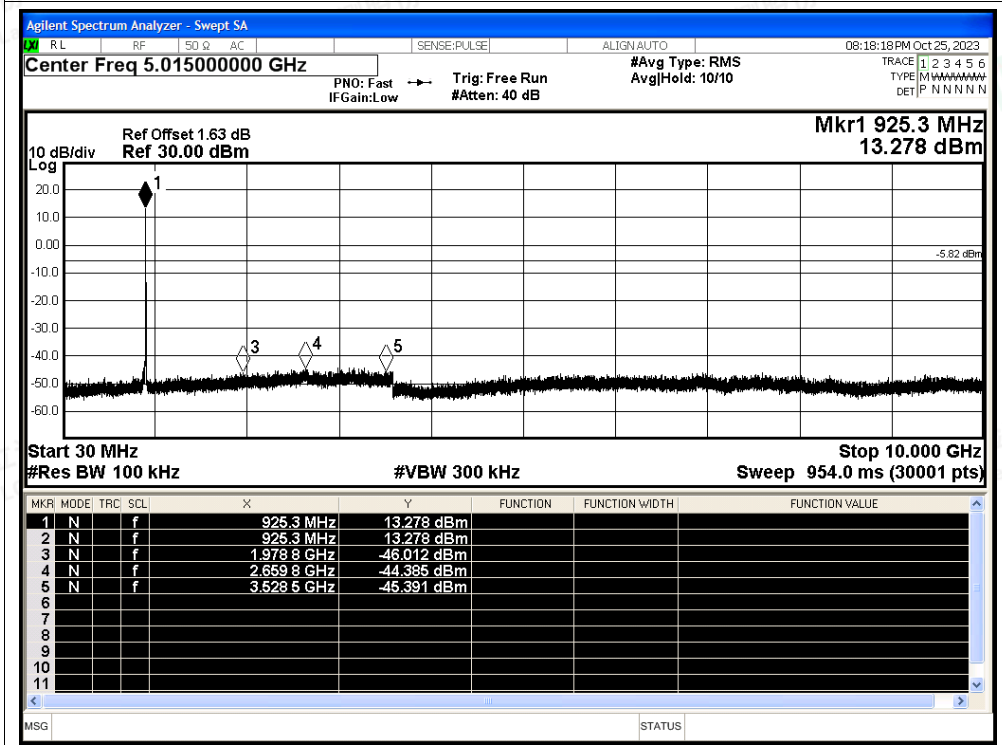




Tx. Spurious NVNT n-5M 925MHz Ant0 Ref



Tx. Spurious NVNT n-5M 925MHz Ant0 Emission





B.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g-10M	907	Ant0	98.85	0	0.31
NVNT	g-10M	915	Ant0	98.85	0	0.31
NVNT	g-10M	923	Ant0	98.85	0	0.31
NVNT	g-5M	905	Ant0	99	0	0.15
NVNT	g-5M	915	Ant0	99	0	0.15
NVNT	g-5M	925	Ant0	99	0	0.15
NVNT	n-10M	907	Ant0	98.9	0	0.33
NVNT	n-10M	915	Ant0	98.9	0	0.33
NVNT	n-10M	923	Ant0	98.9	0	0.33
NVNT	n-5M	905	Ant0	98.74	0	0.16
NVNT	n-5M	915	Ant0	98.7	0	0.16
NVNT	n-5M	925	Ant0	98.74	0	0.16

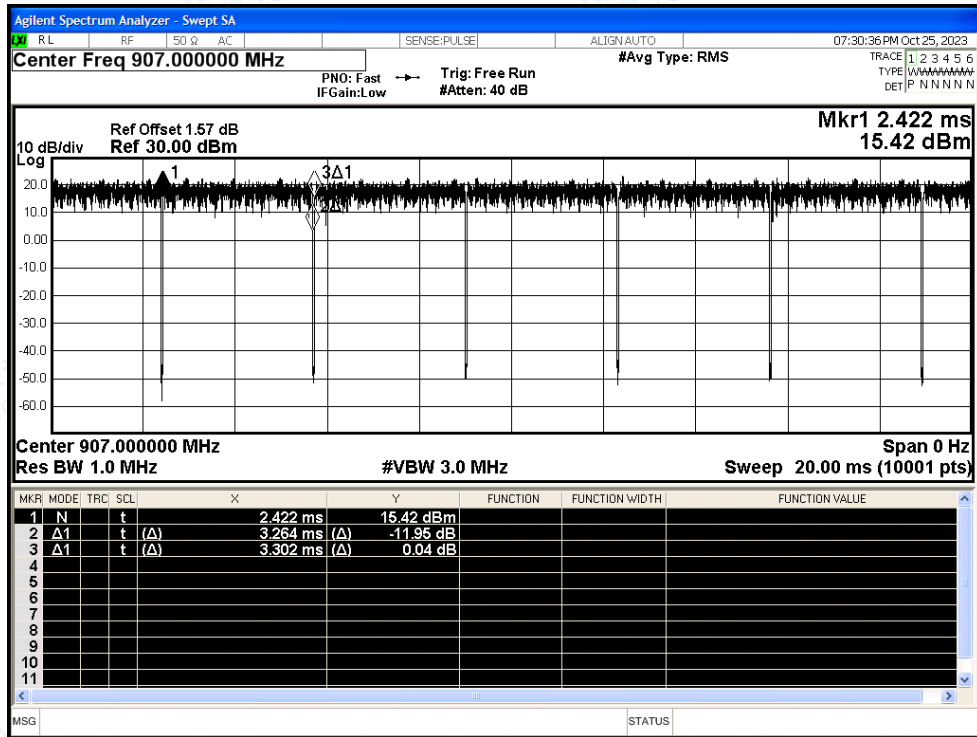


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 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

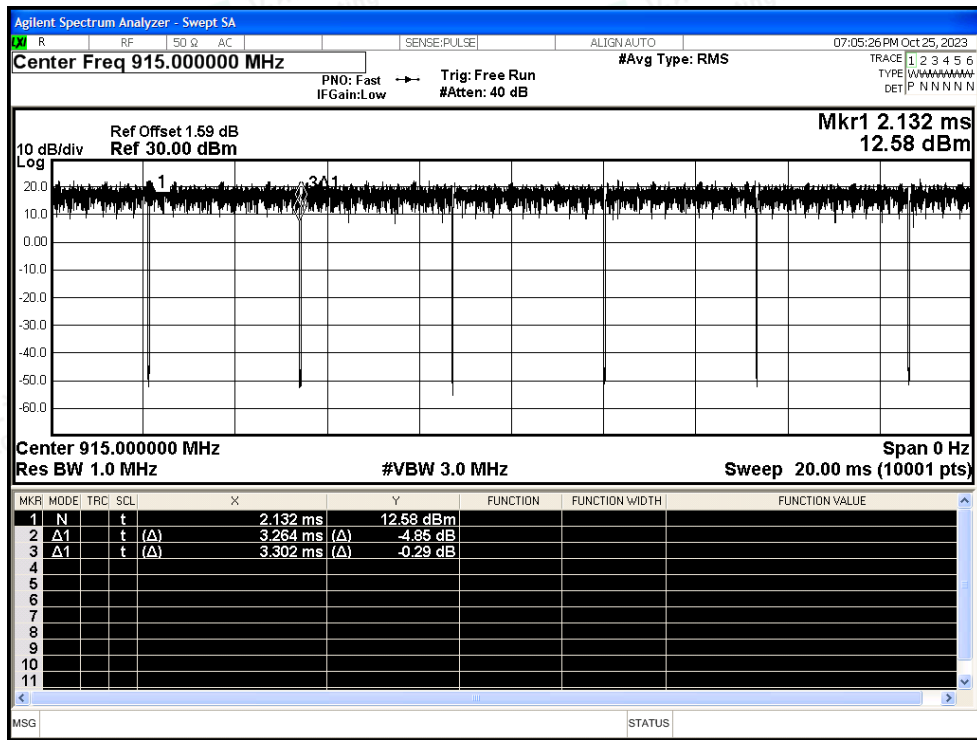


Test Graphs

Duty Cycle NVNT g-10M 907MHz Ant0

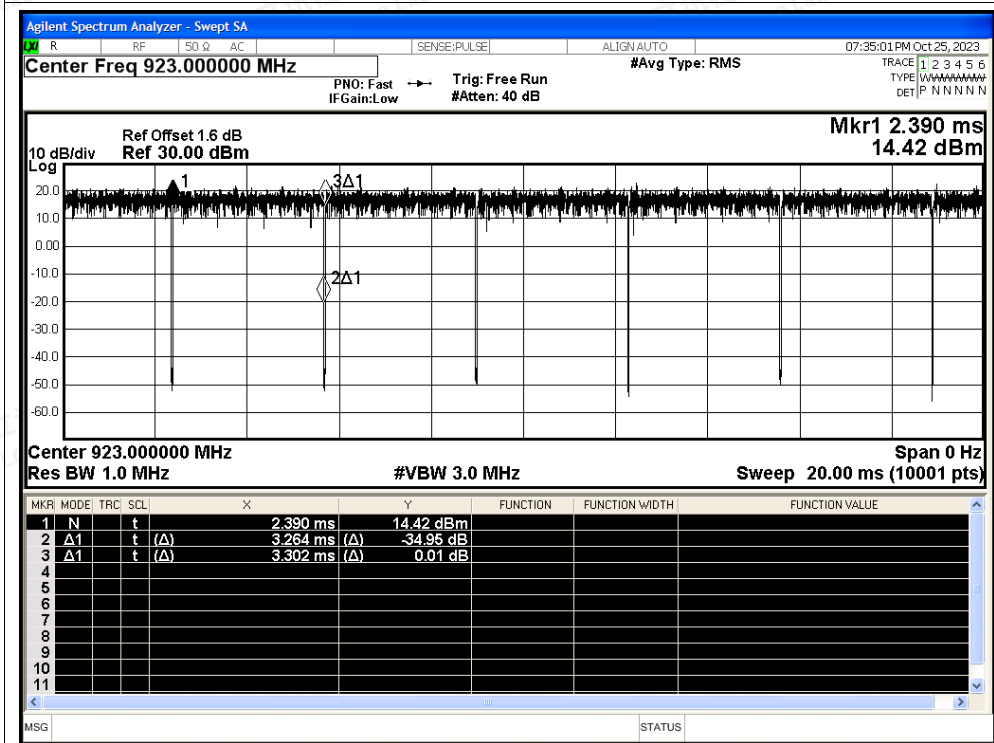


Duty Cycle NVNT g-10M 915MHz Ant0

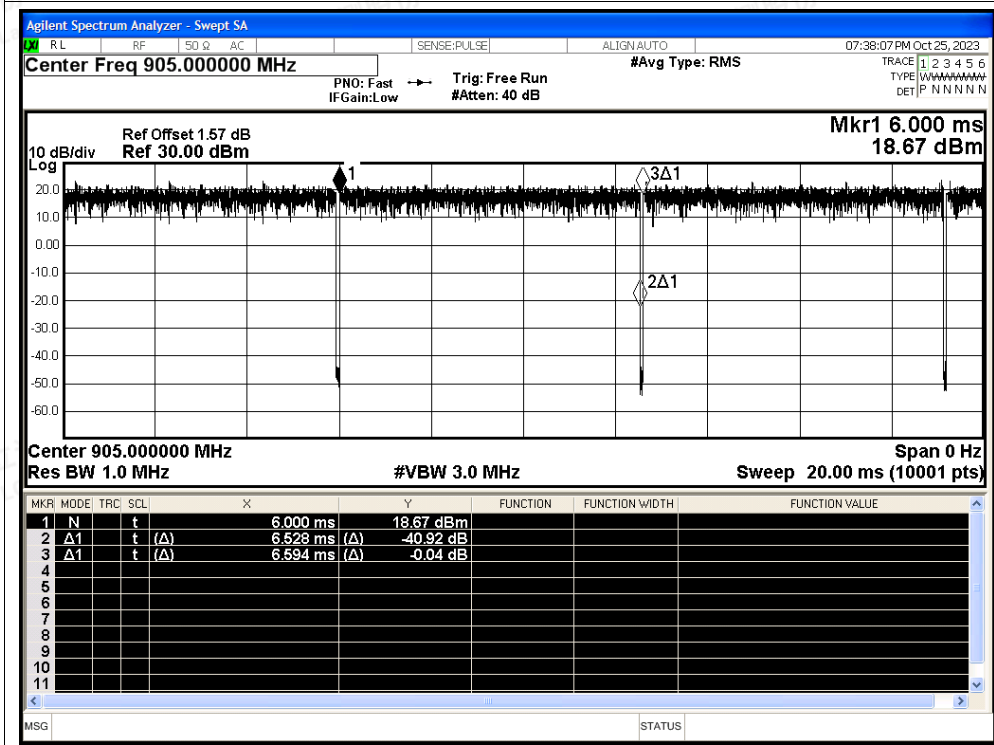




Duty Cycle NVNT g-10M 923MHz Ant0

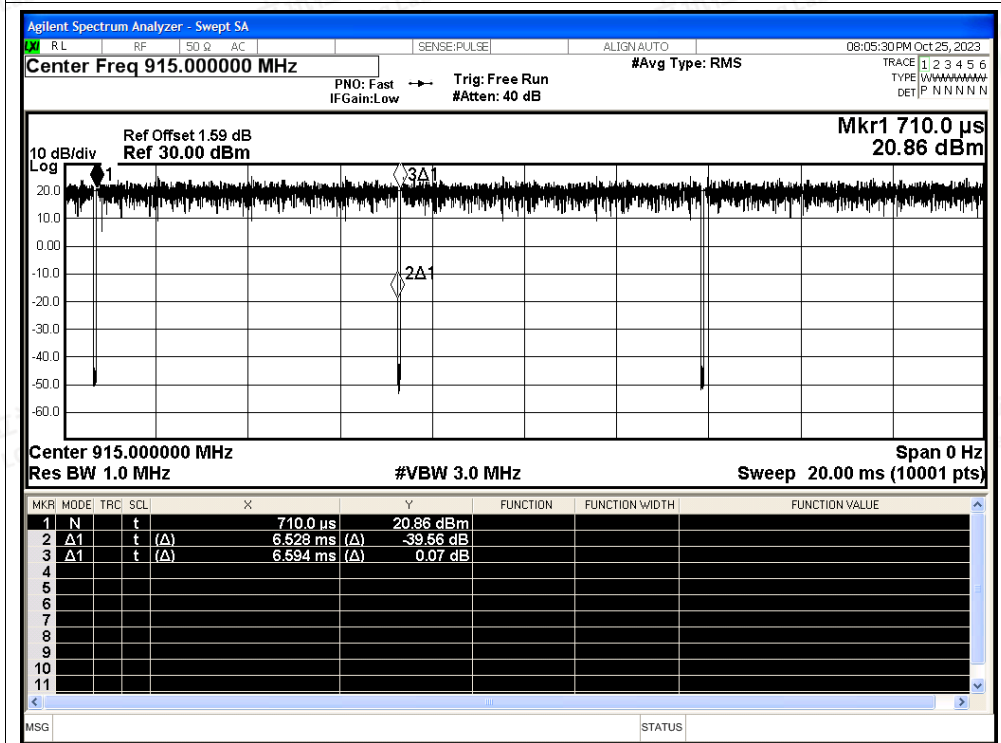


Duty Cycle NVNT g-5M 905MHz Ant0

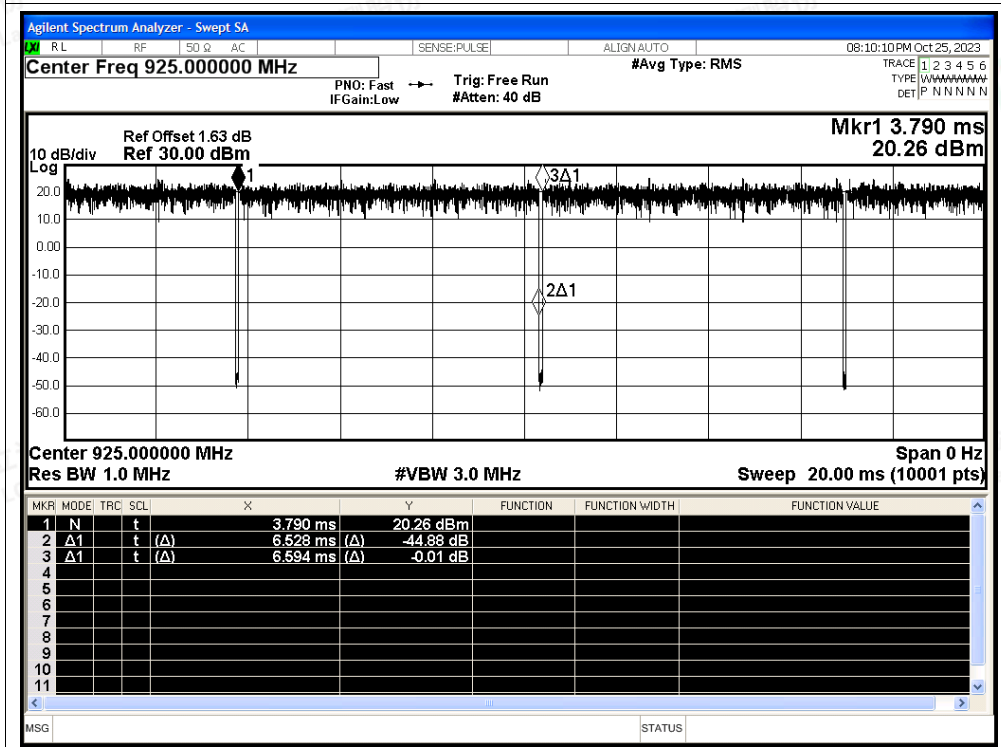




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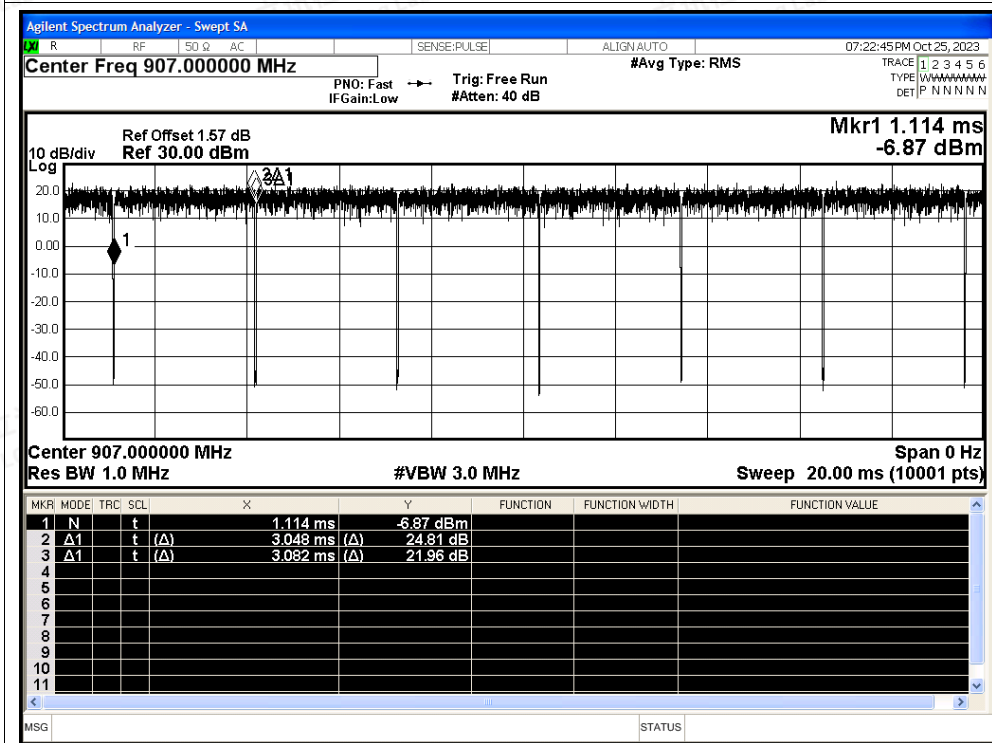


Duty Cycle NVNT g-5M 925MHz Ant0

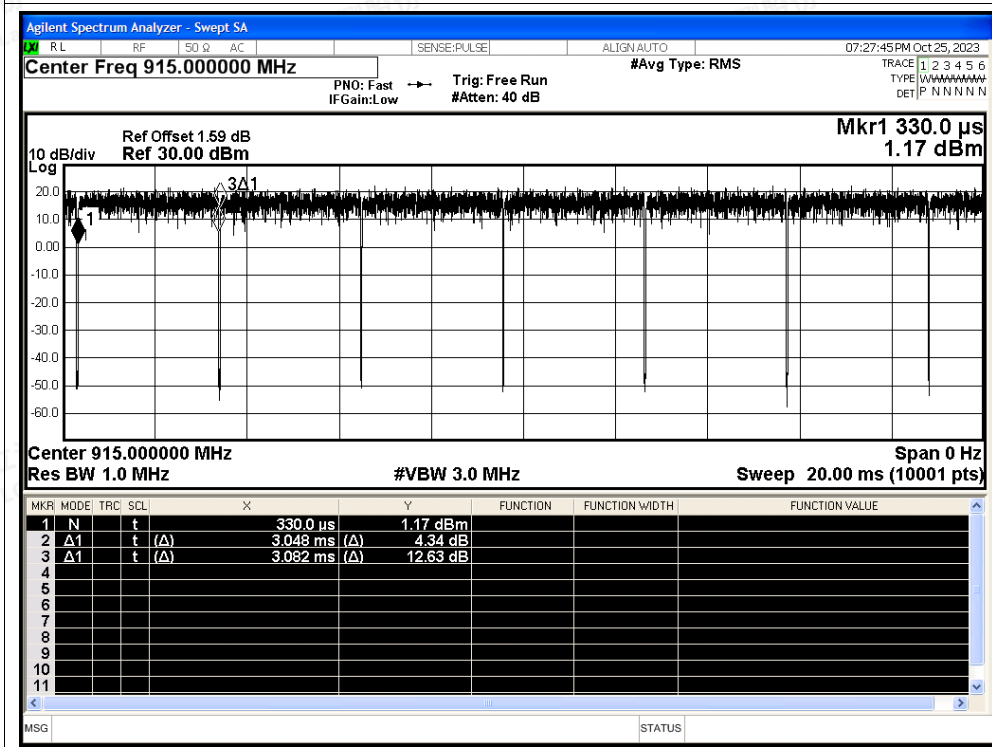




Duty Cycle NVNT n-10M 907MHz Ant0

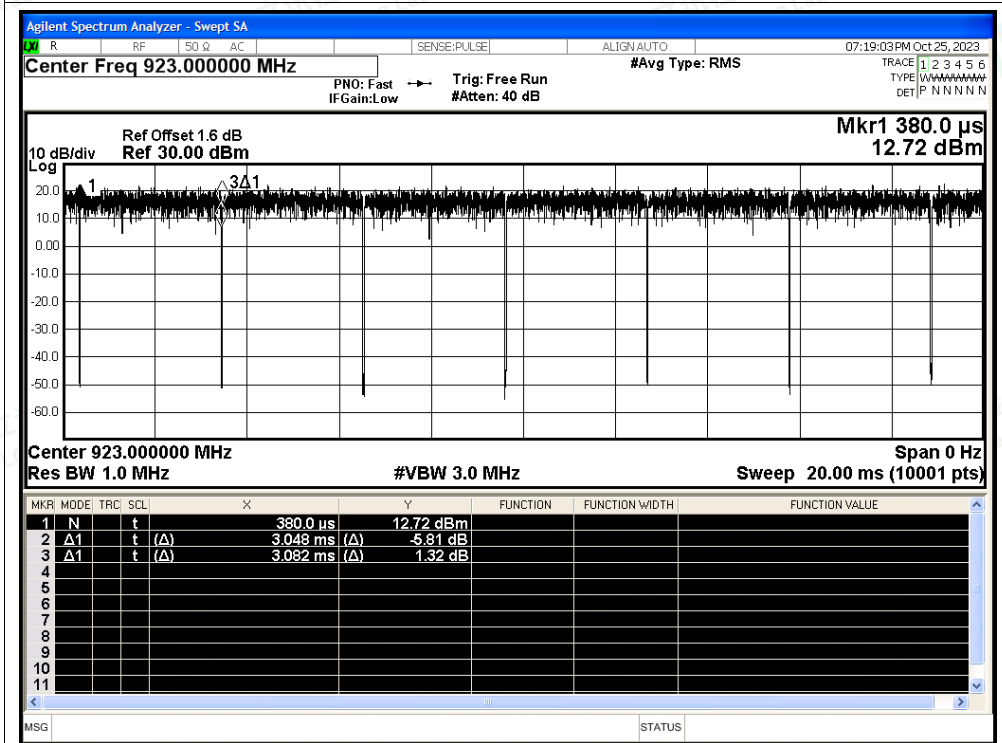


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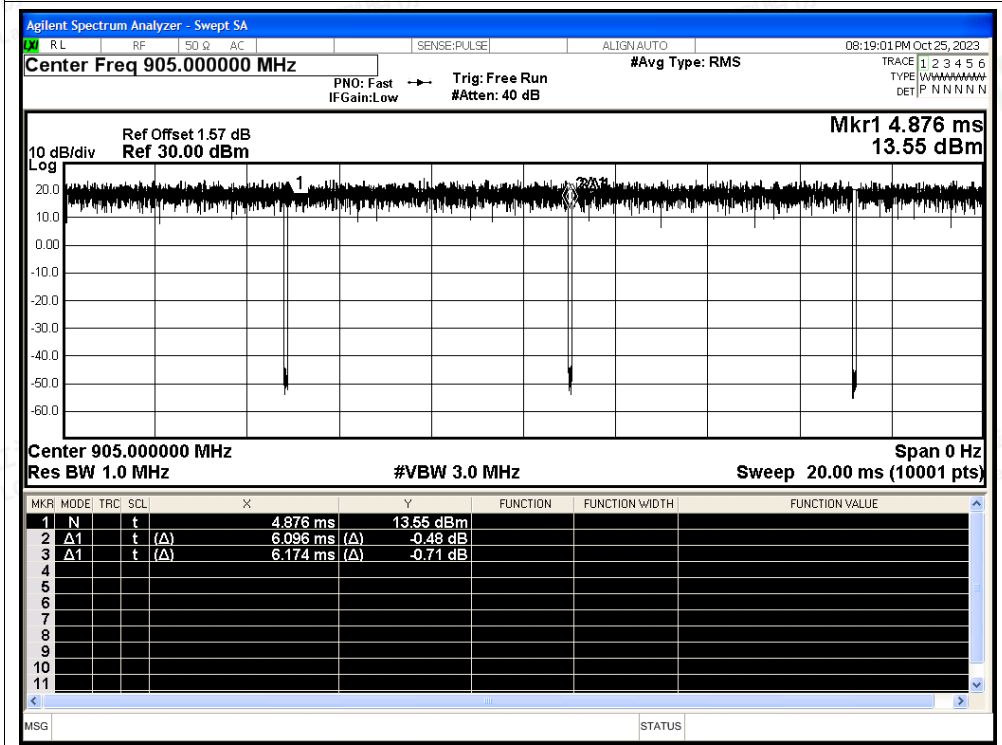




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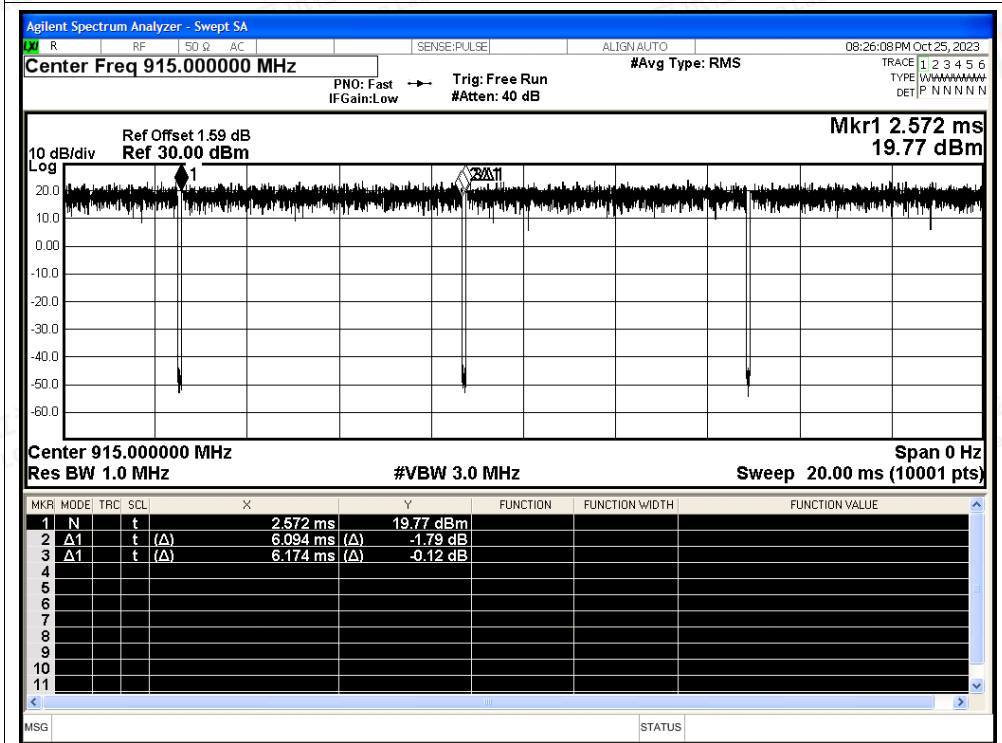


Duty Cycle NVNT n-5M 905MHz Ant0





Duty Cycle NVNT n-5M 915MHz Ant0



Duty Cycle NVNT n-5M 925MHz Ant0

