

Appendix: Lora FHSS

Contents

Contents 2

Duty Cycle 3

Maximum Peak Conducted Output Power 6

-20dB Bandwidth 9

Occupied Channel Bandwidth 12

Band Edge 15

Band Edge(Hopping) 18

Conducted RF Spurious Emission 21

Number of Hopping Channel 25

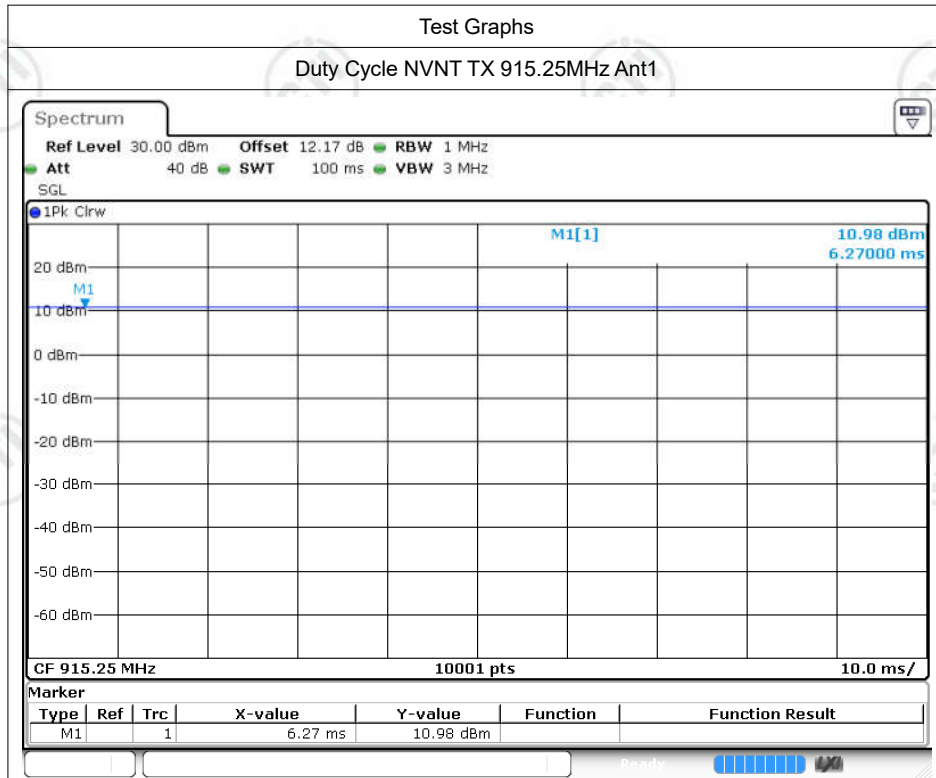
Carrier Frequencies Separation 27

Dwell Time 29

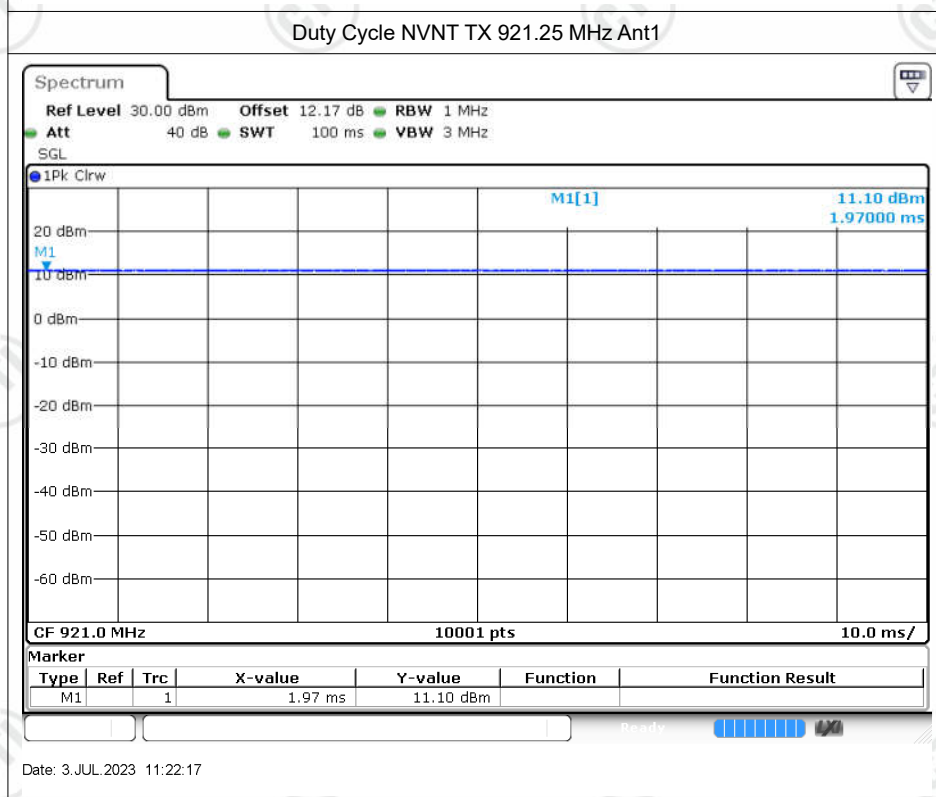
Maximum Power Spectral Density Level 31

Duty Cycle

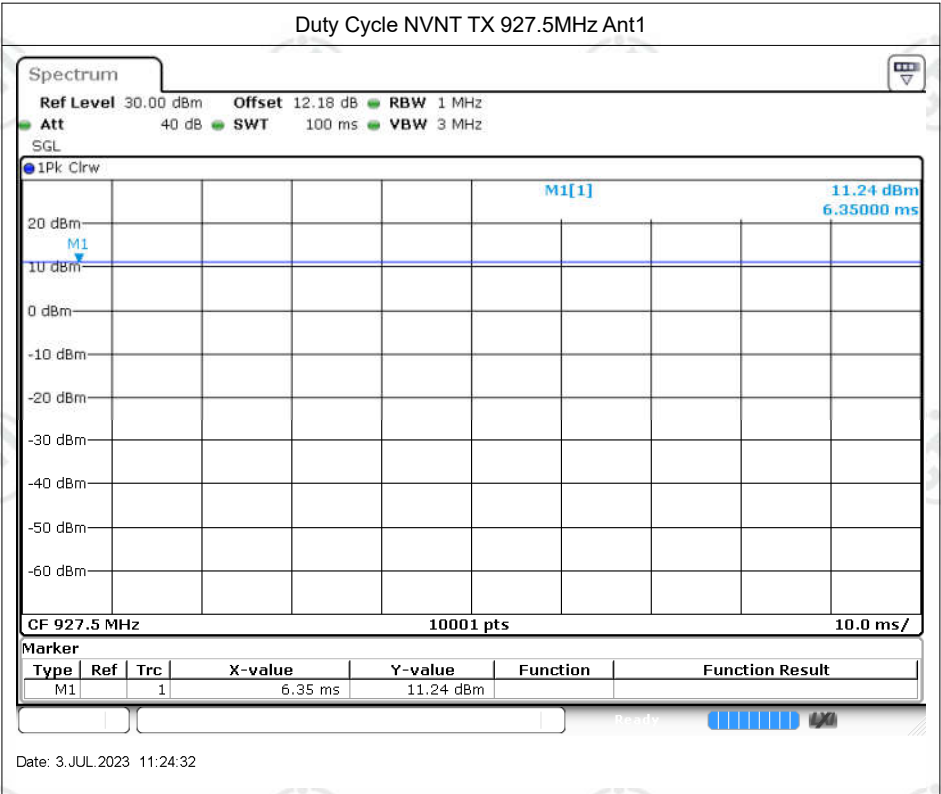
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	TX	915.25	Ant1	100	0	0
NVNT	TX	921.25	Ant1	100	0	0
NVNT	TX	927.50	Ant1	100	0	0



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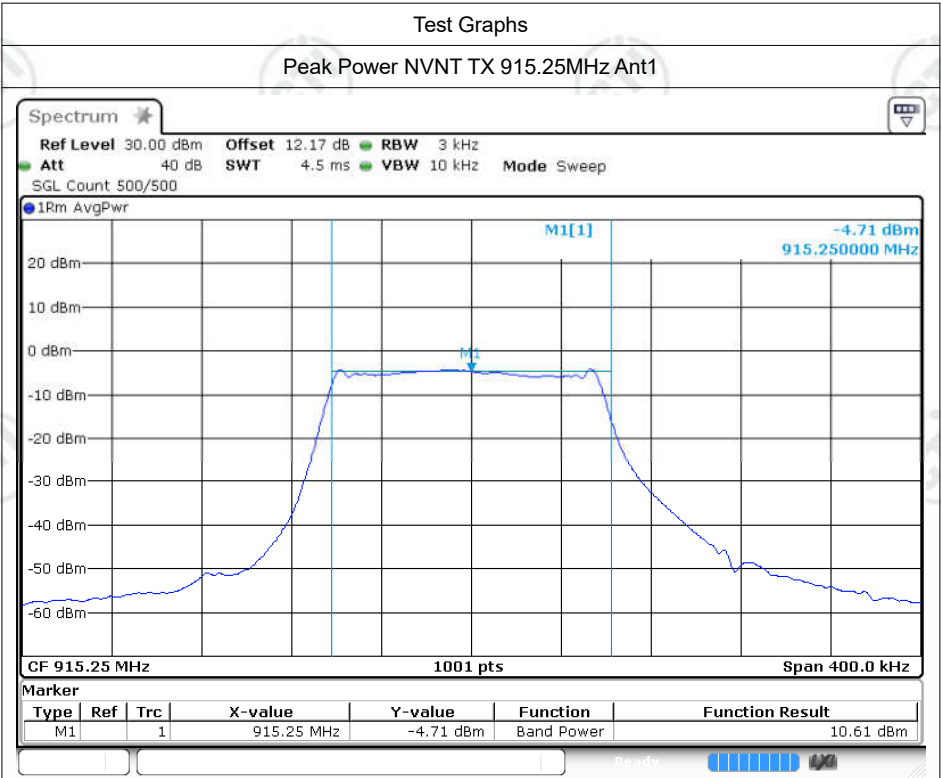


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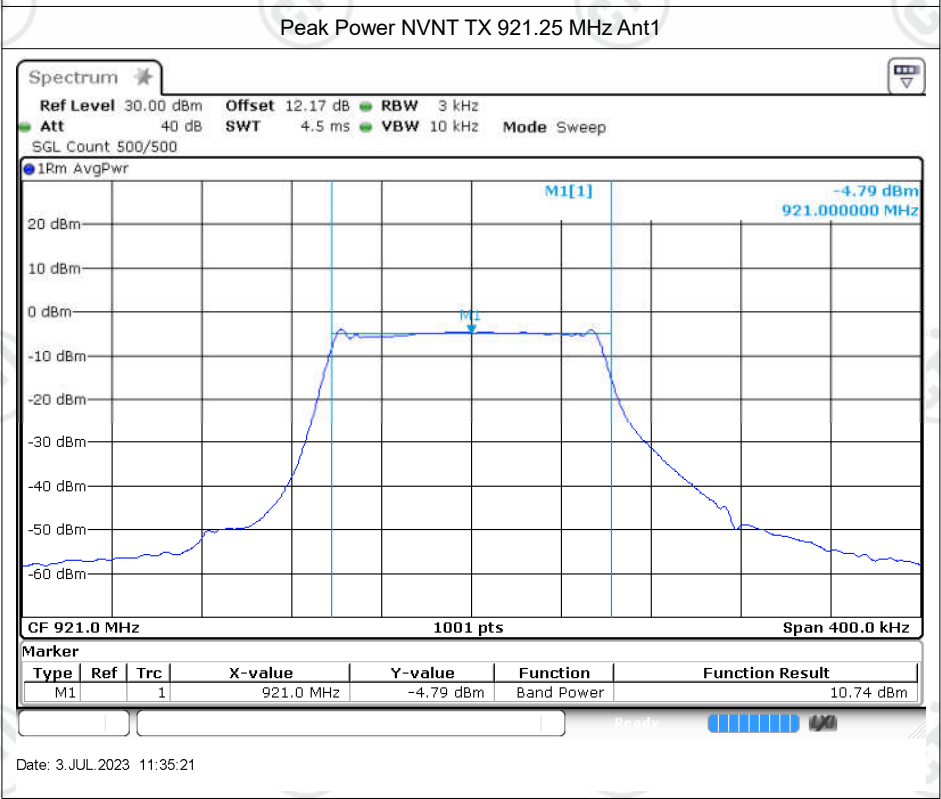


Maximum Peak Conducted Output Power

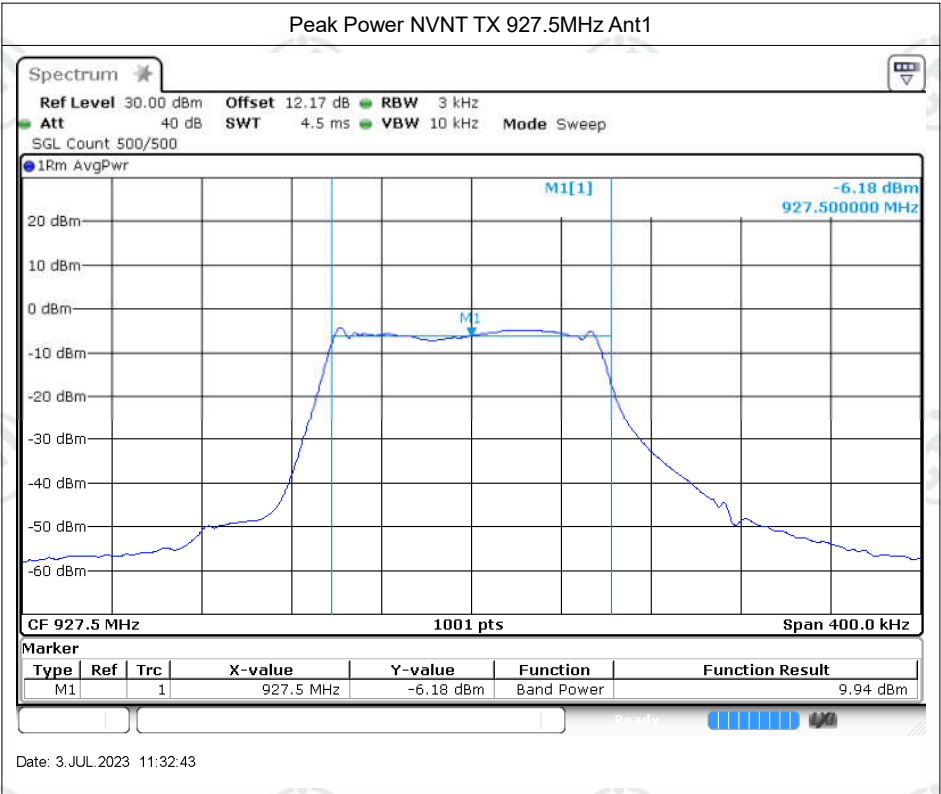
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	TX	915.25	Ant1	10.61	30	Pass
NVNT	TX	921.25	Ant1	10.74	30	Pass
NVNT	TX	927.50	Ant1	9.94	30	Pass



Date: 3 JUL 2023 11:33:48

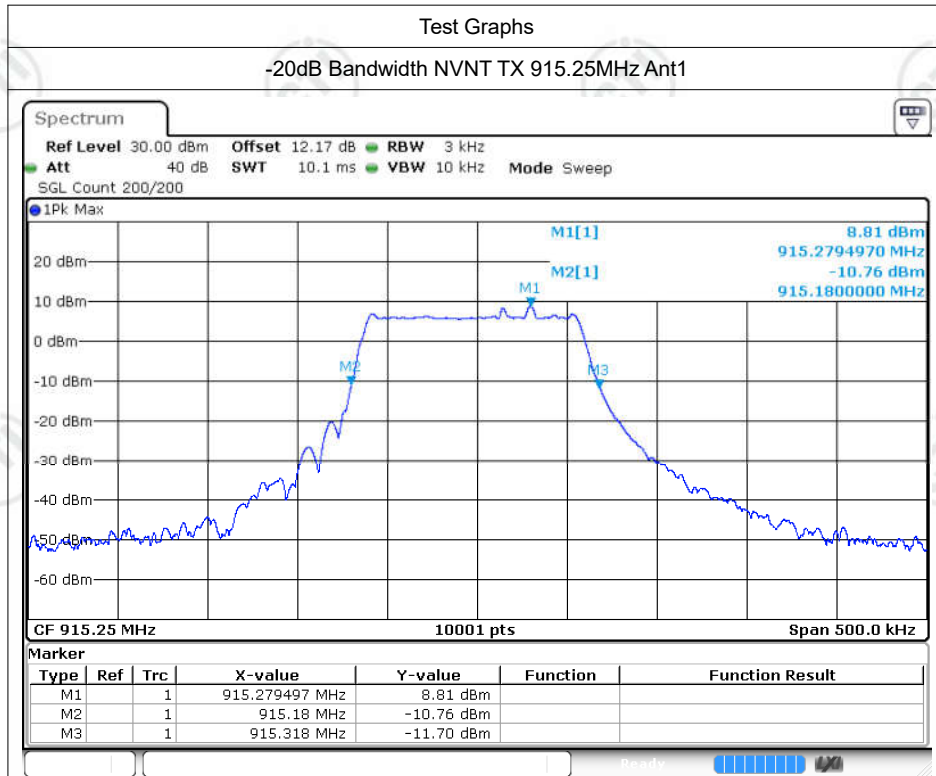


Date: 3 JUL 2023 11:35:21

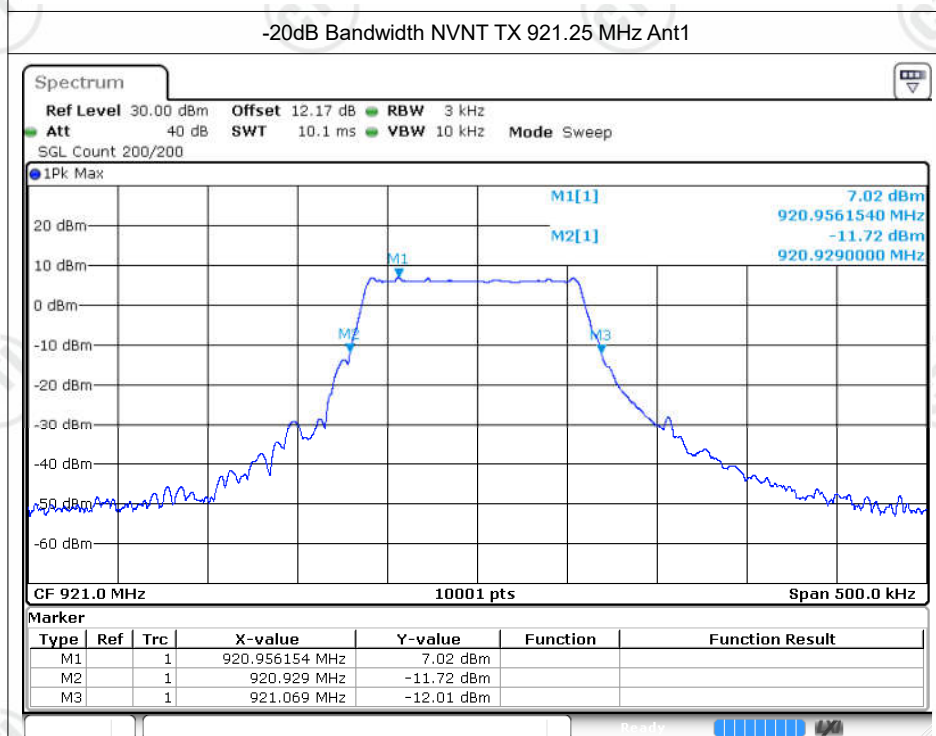


-20dB Bandwidth

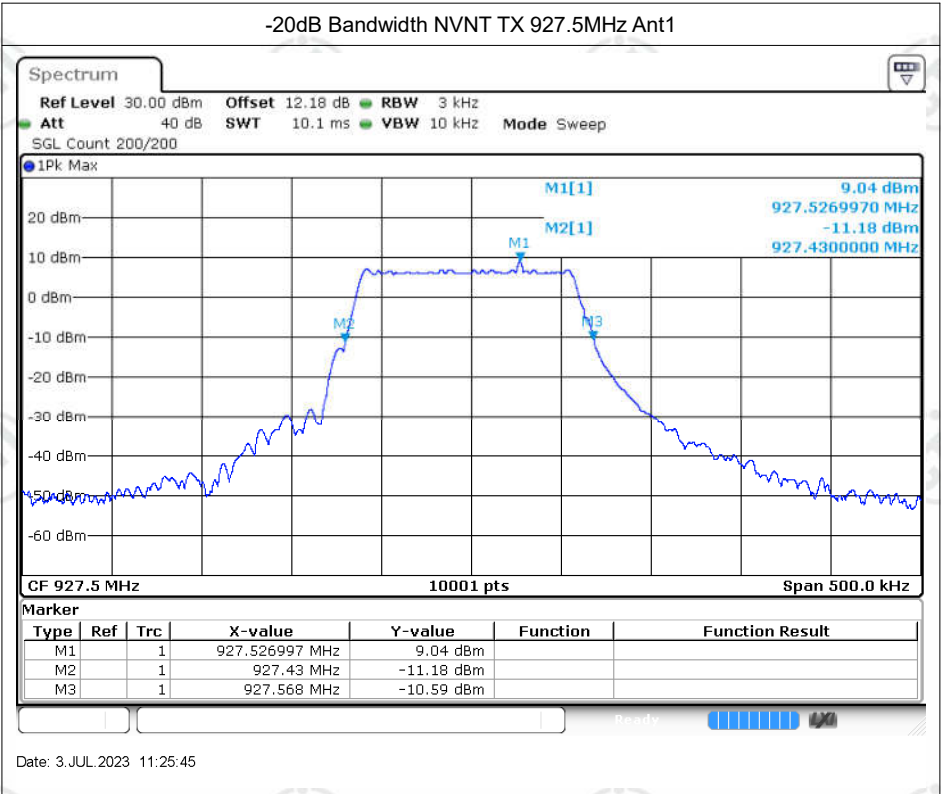
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	TX	915.25	Ant1	0.138	---	Pass
NVNT	TX	921.00	Ant1	0.141	---	Pass
NVNT	TX	927.50	Ant1	0.138	---	Pass



Date: 3.JUL.2023 11:20:56

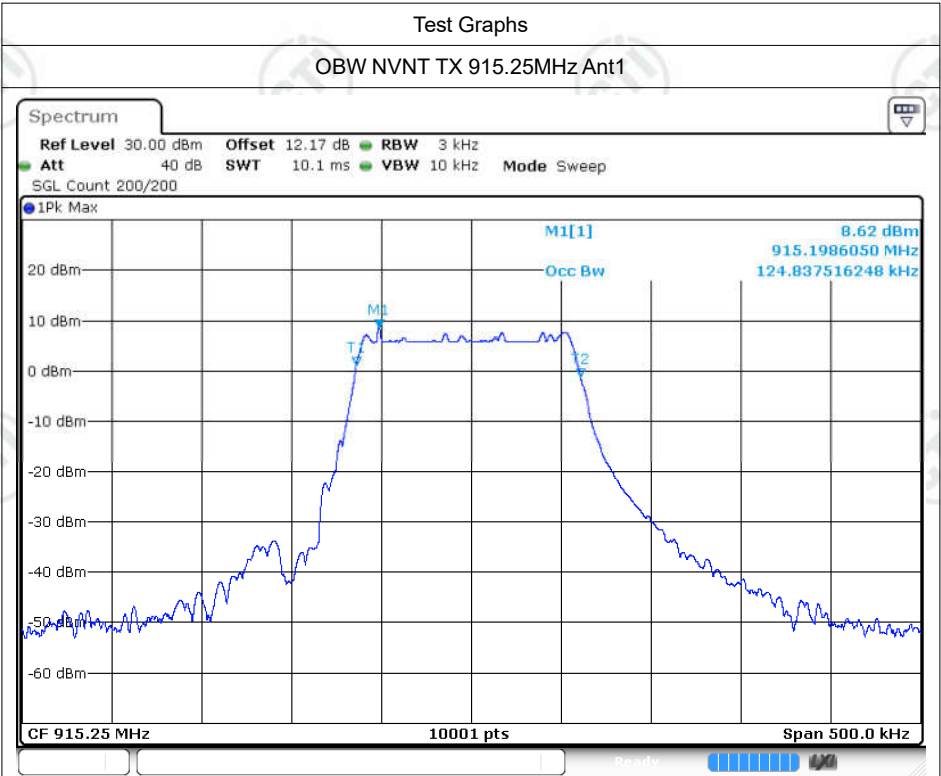


Date: 3.JUL.2023 11:23:39

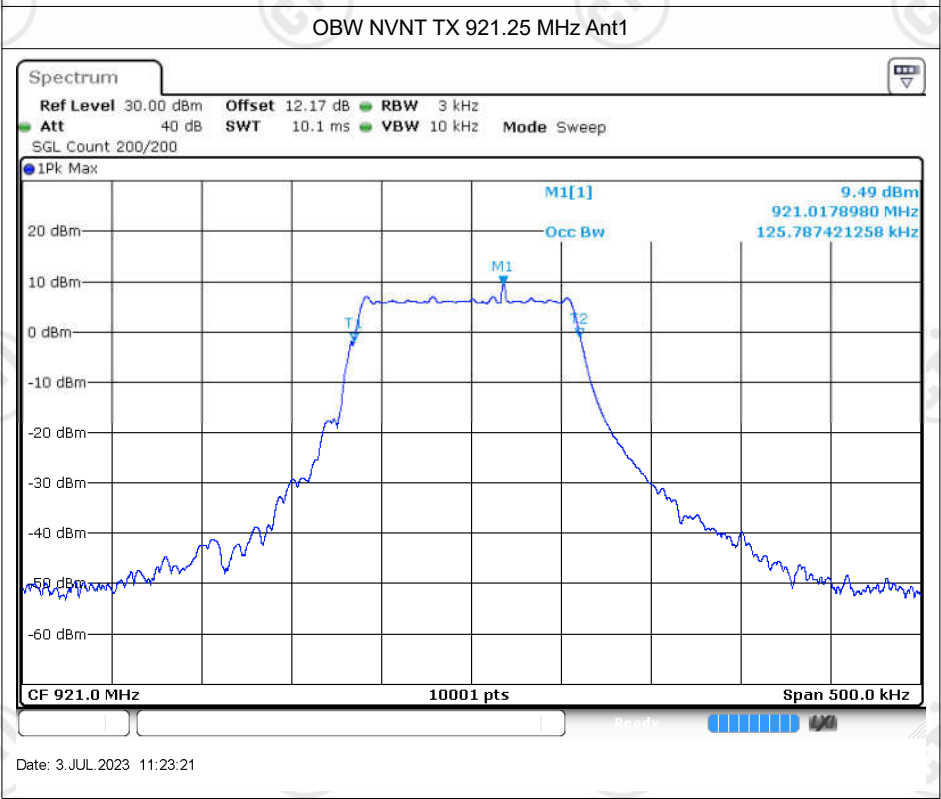


Occupied Channel Bandwidth

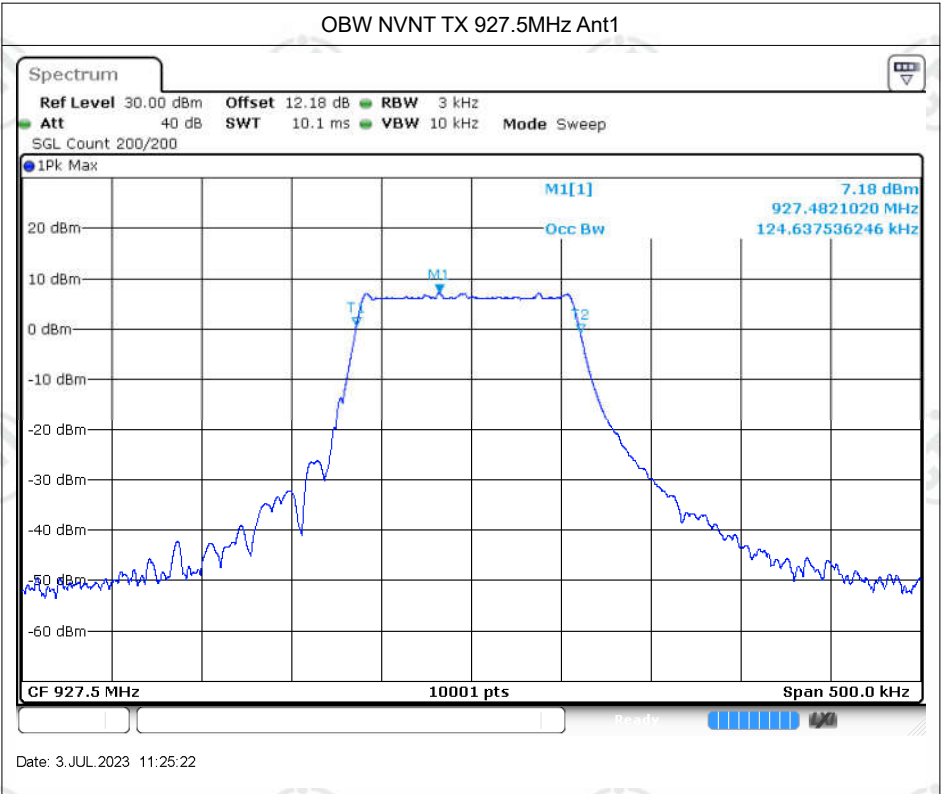
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	TX	915.25	Ant1	0.125
NVNT	TX	921.25	Ant1	0.126
NVNT	TX	927.50	Ant1	0.125



Date: 3 JUL 2023 11:20:22

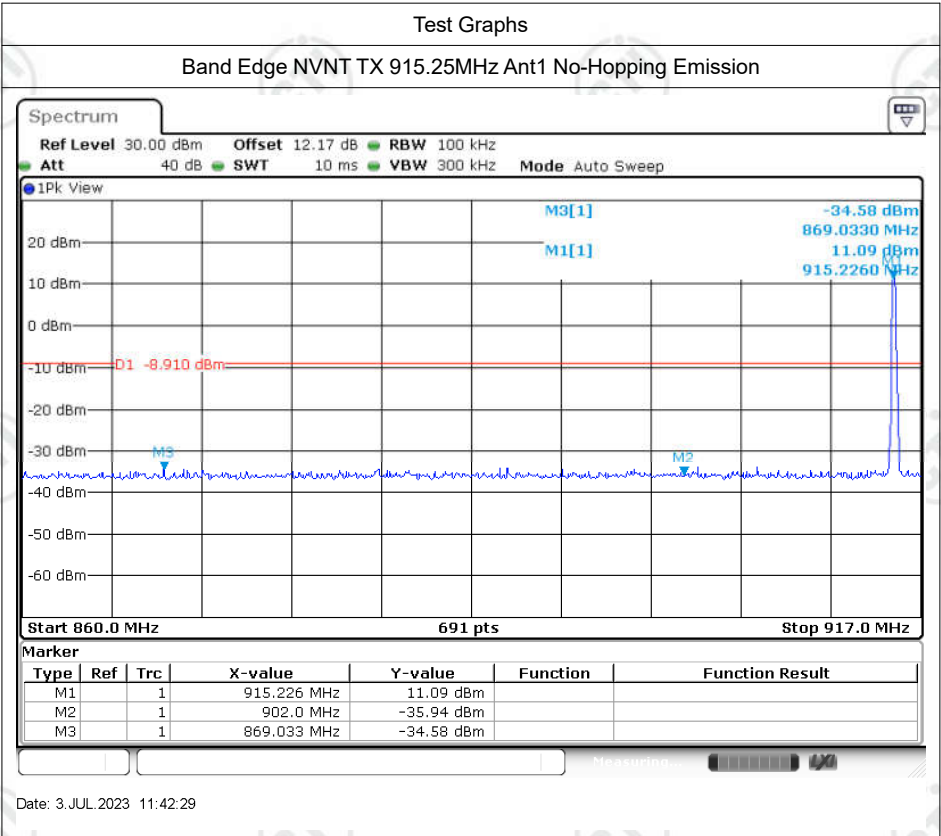


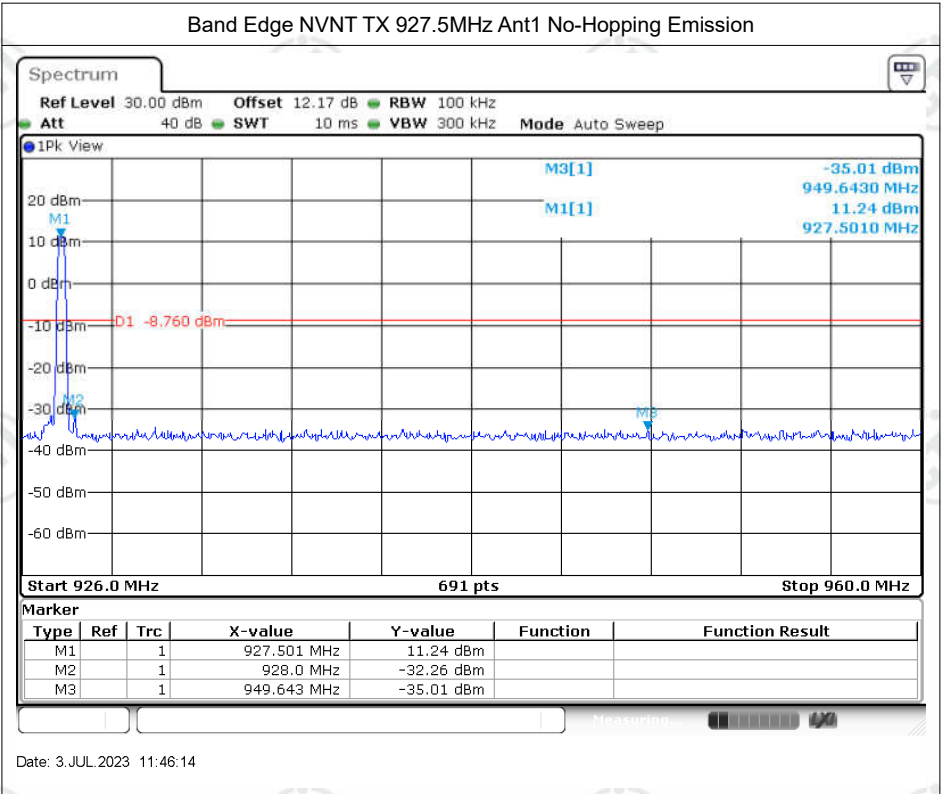
Date: 3 JUL 2023 11:23:21



Band Edge

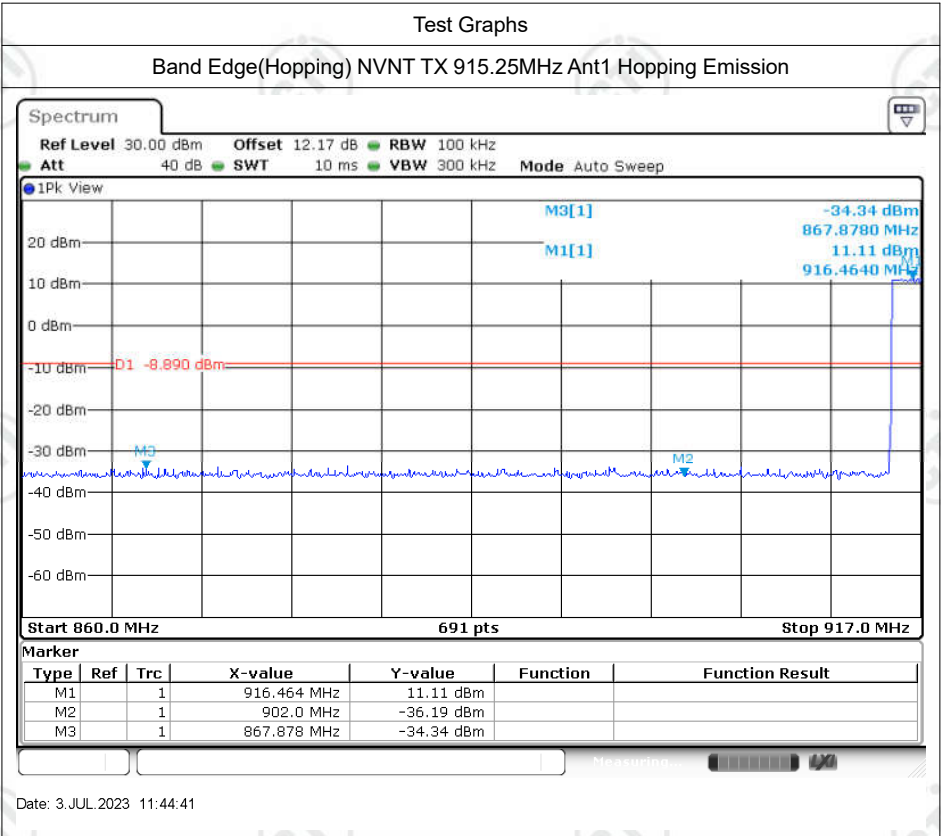
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	TX	915.25	Ant1	No-Hopping	-35.94	20	Pass
NVNT	TX	927.50	Ant1	No-Hopping	-32.26	20	Pass

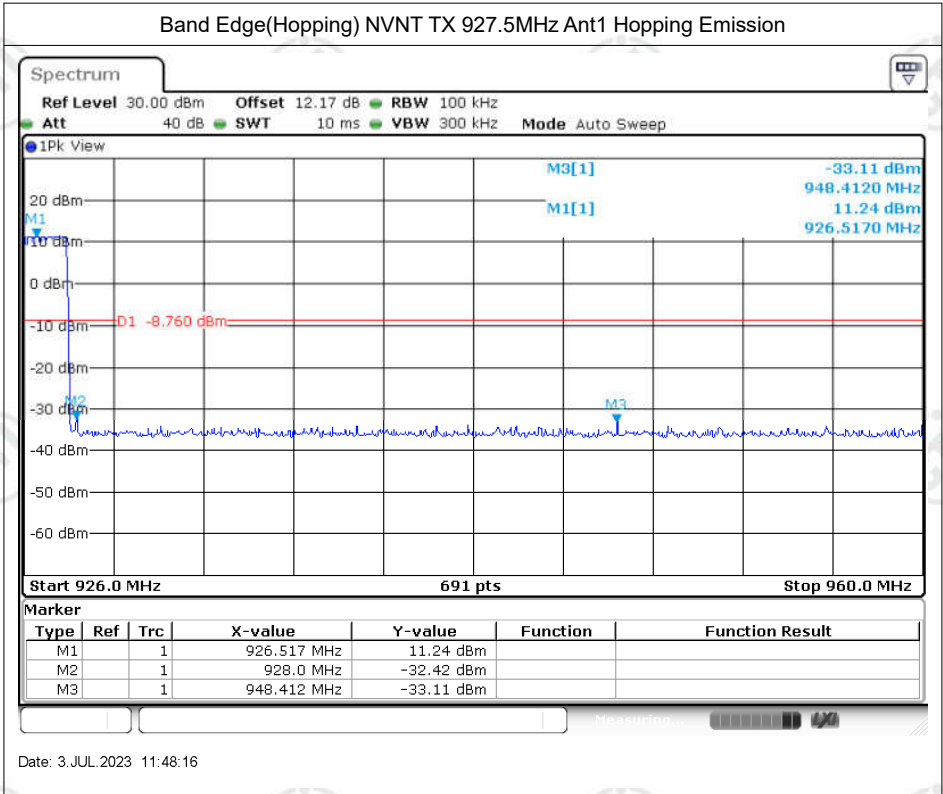




Band Edge(Hopping)

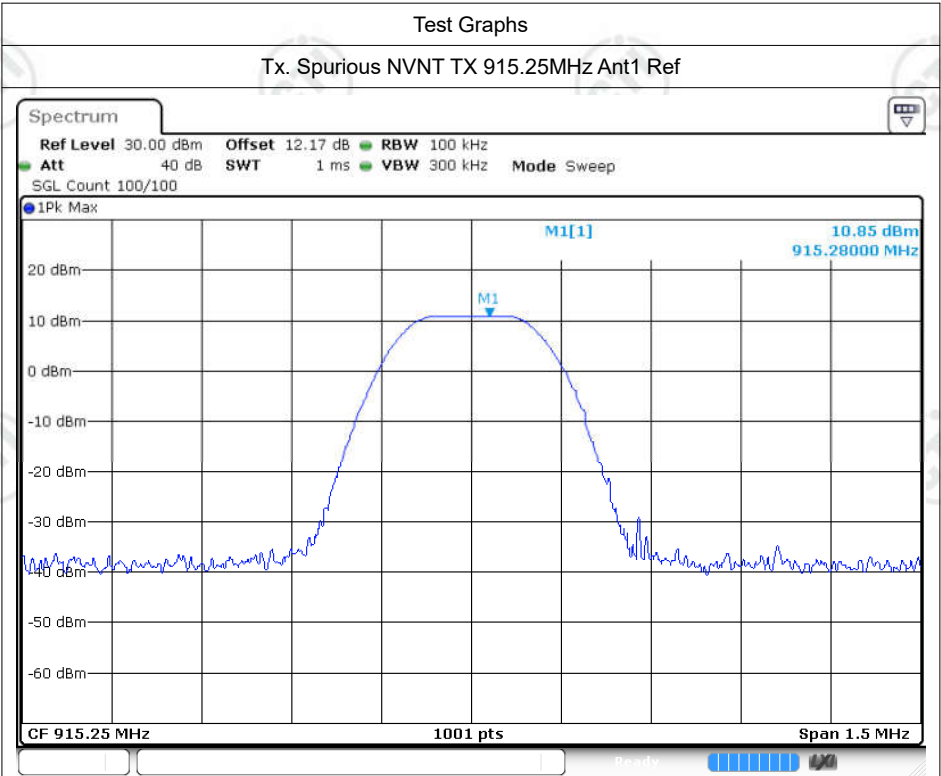
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	TX	915.25	Ant1	Hopping	-36.19	20	Pass
NVNT	TX	927.50	Ant1	Hopping	-32.42	20	Pass



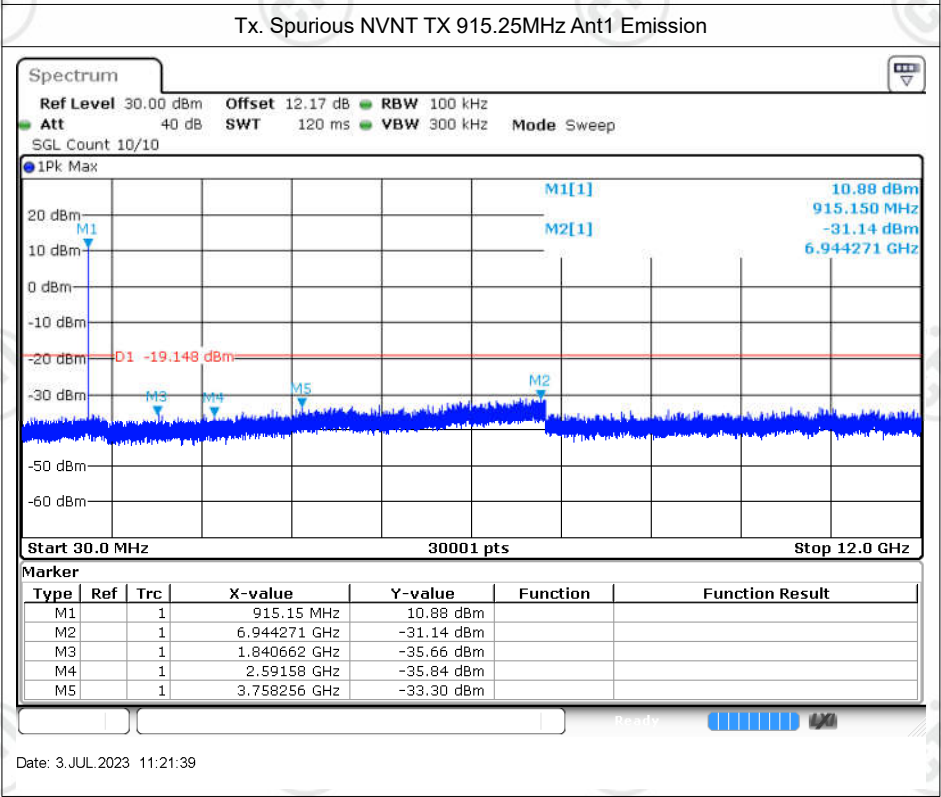


Conducted RF Spurious Emission

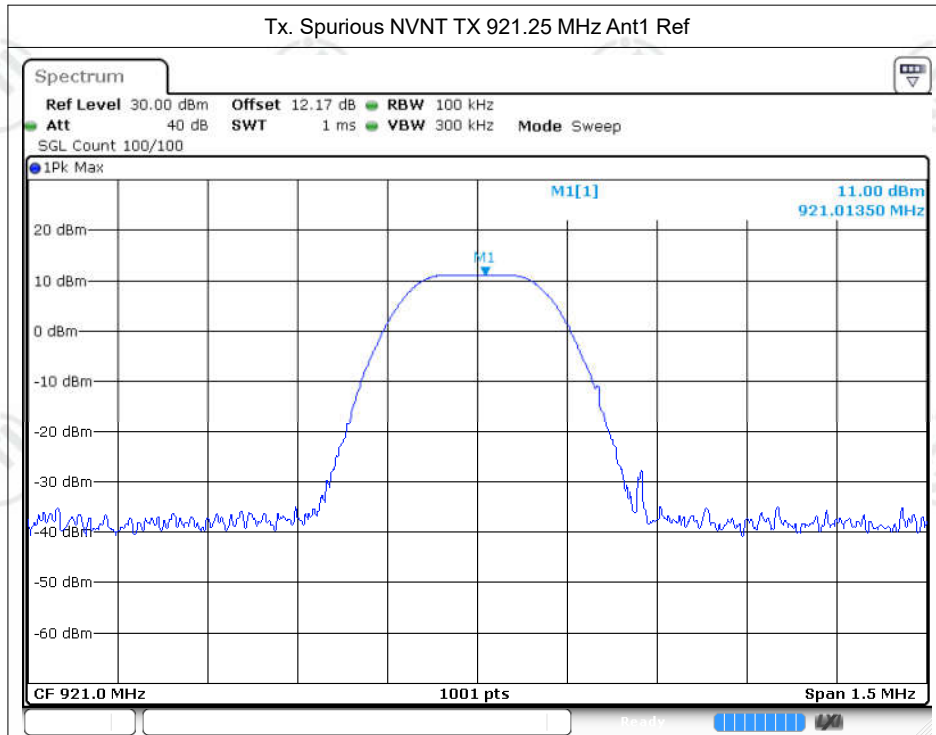
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	TX	915.25	Ant1	-41.98	-30	Pass
NVNT	TX	921.25	Ant1	-41.30	-30	Pass
NVNT	TX	927.50	Ant1	-44.00	-30	Pass



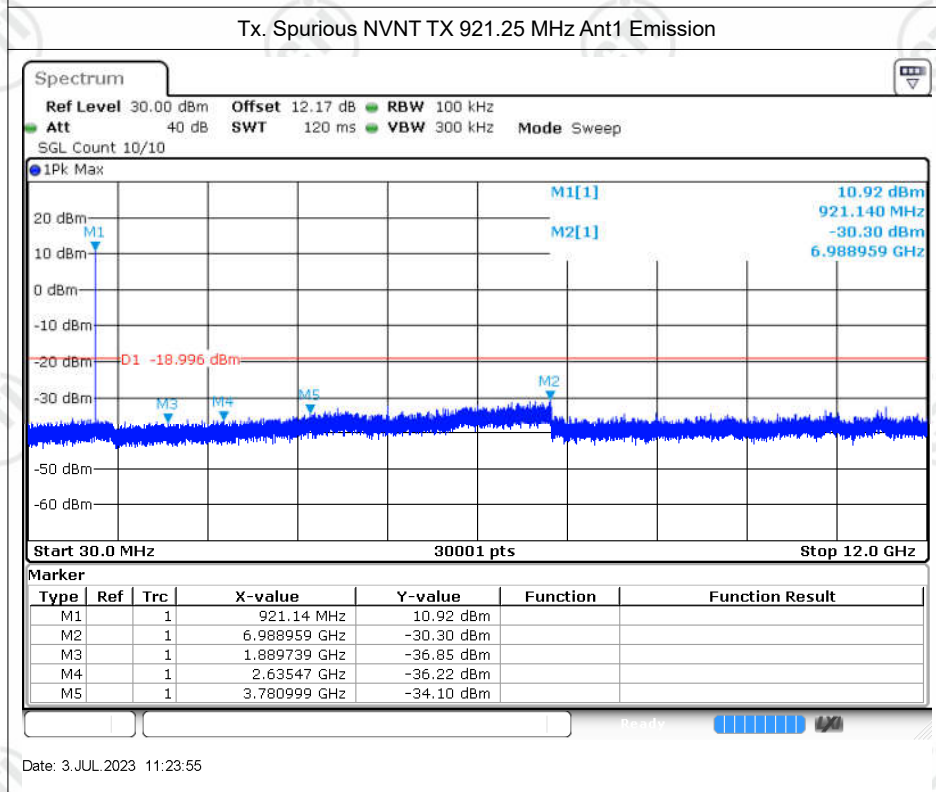
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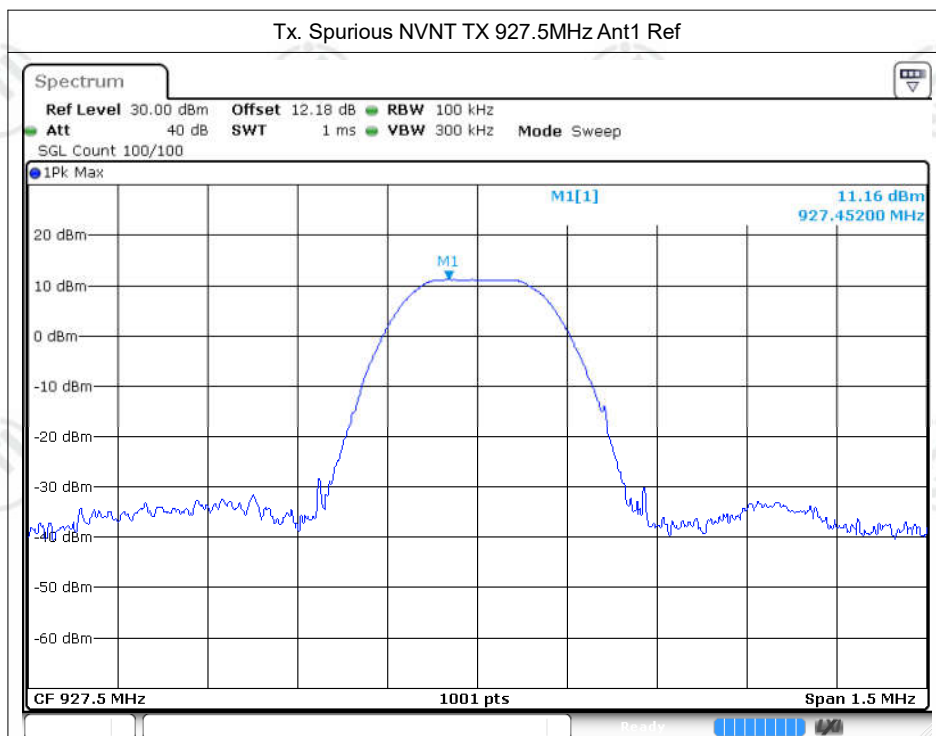
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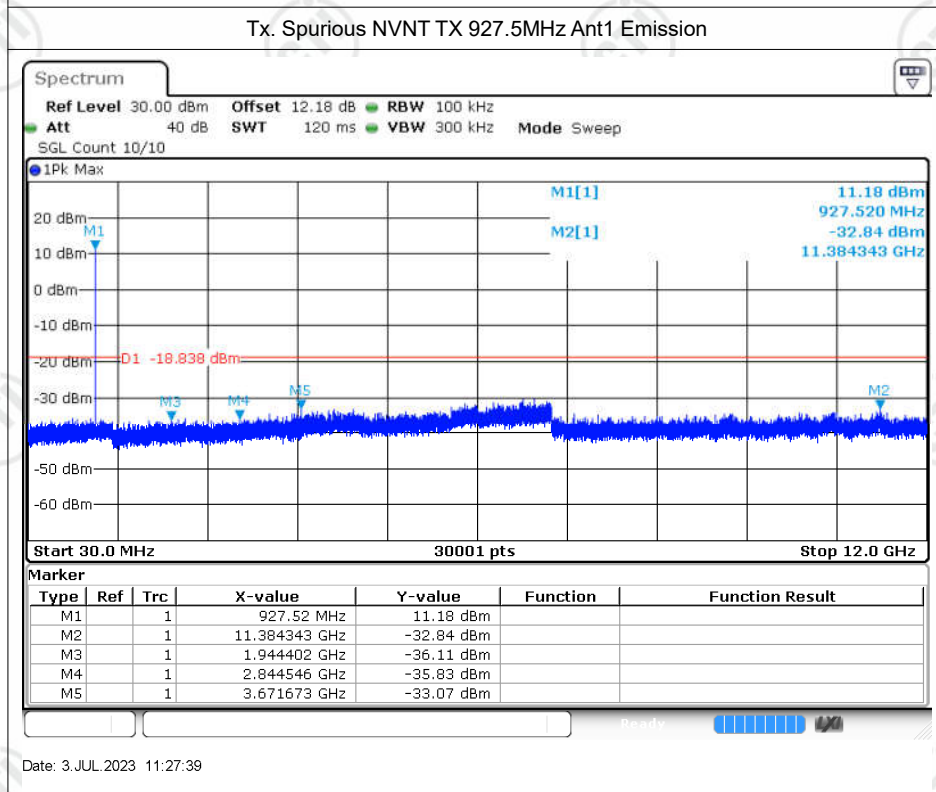
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Date: 3 JUL 2023 11:23:55



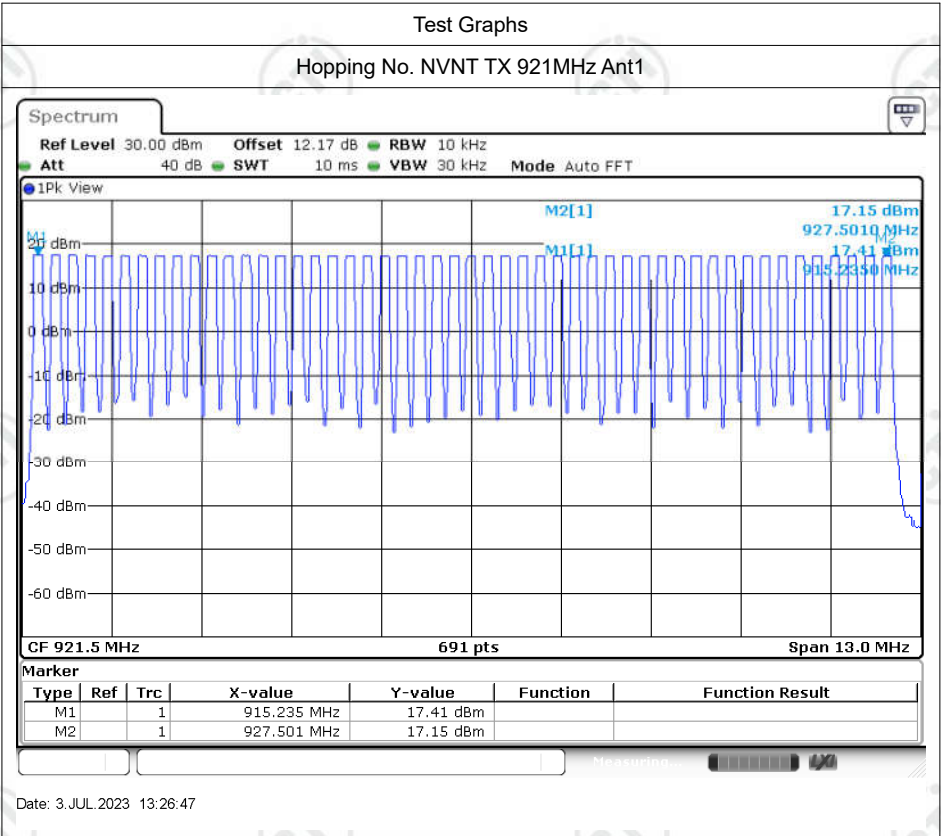
Date: 3 JUL 2023 11:27:32



Date: 3 JUL 2023 11:27:39

Number of Hopping Channel

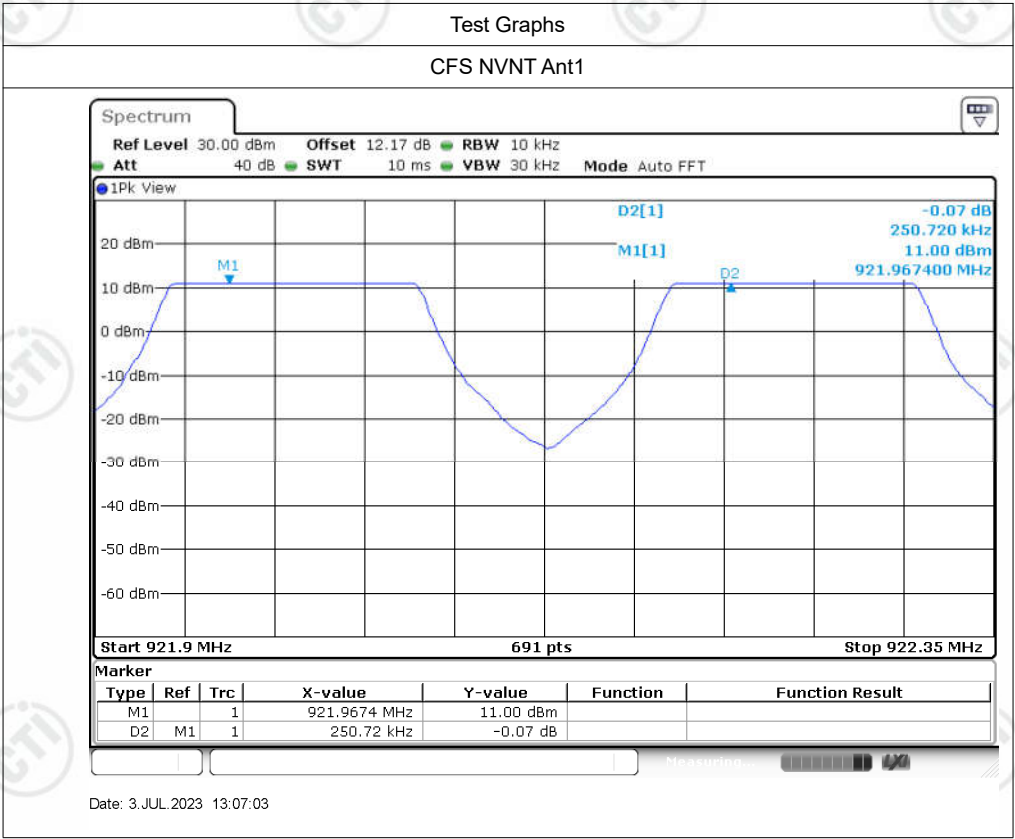
Condition	Mode	Antenna	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	FHSS	Ant1	50	15	100	70	Pass



Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	FHSS	Ant1	921.967	922.218	0.251	0.140	Pass

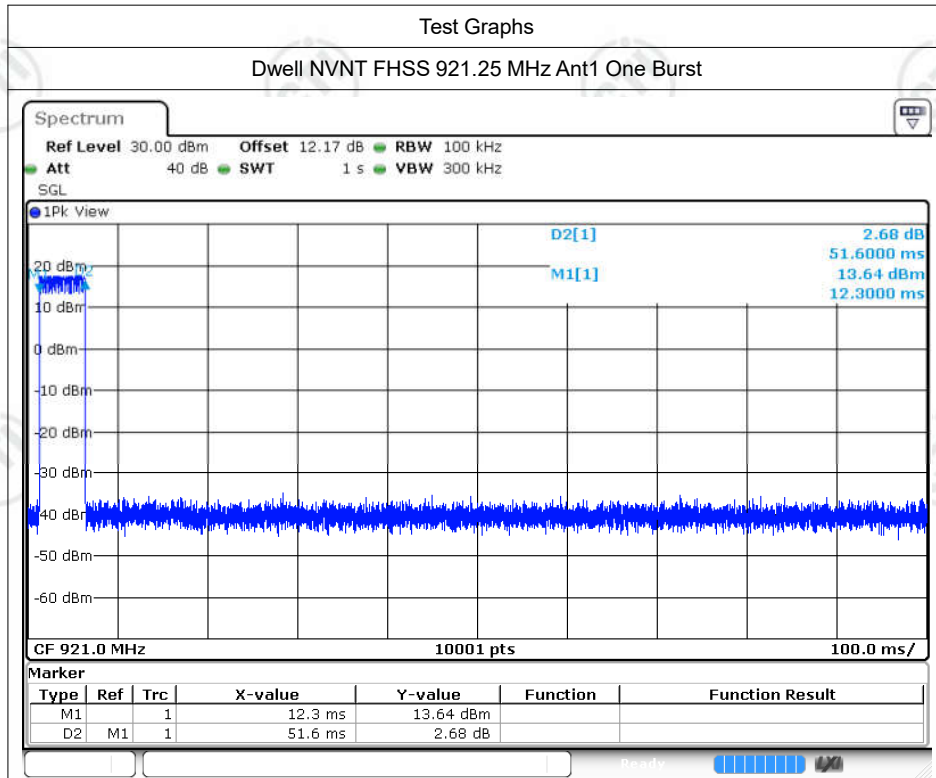
Note: Only the worst case data was recorded in the report.



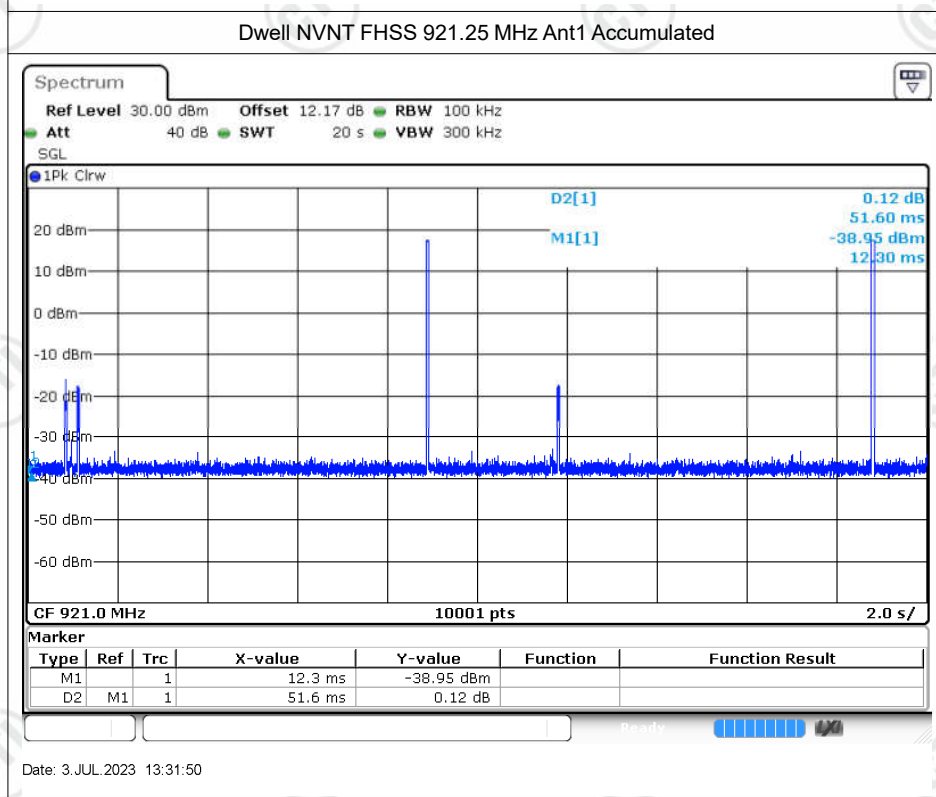
Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	FHSS	921.25	Ant1	51.6	103.2	2	20000	400	Pass

Note: Only the worst case data was recorded in the report.



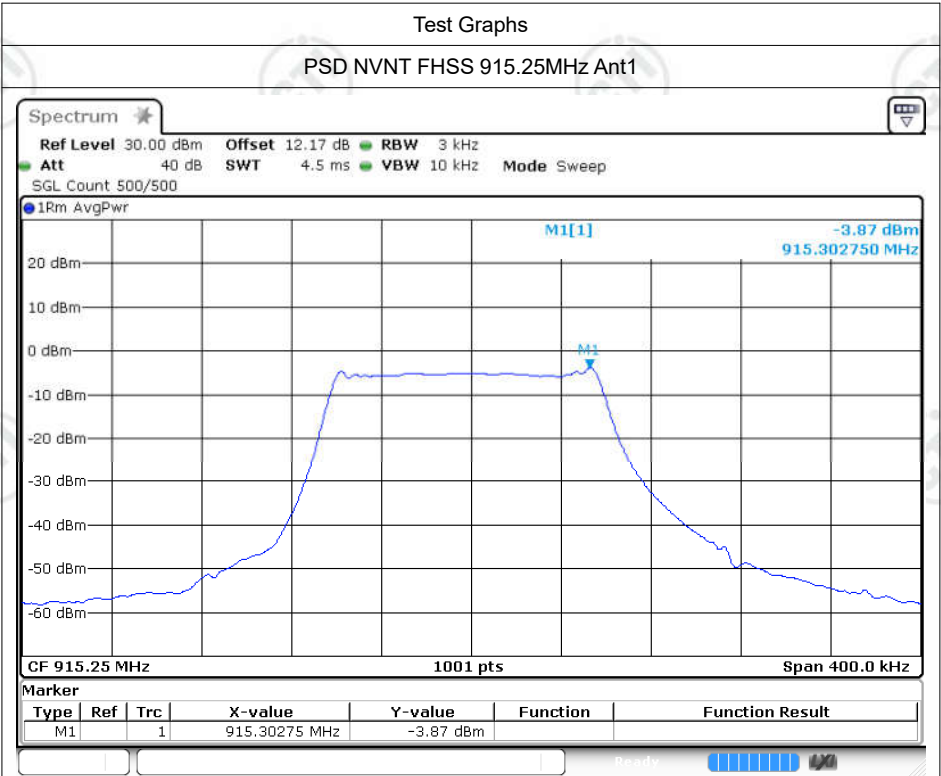
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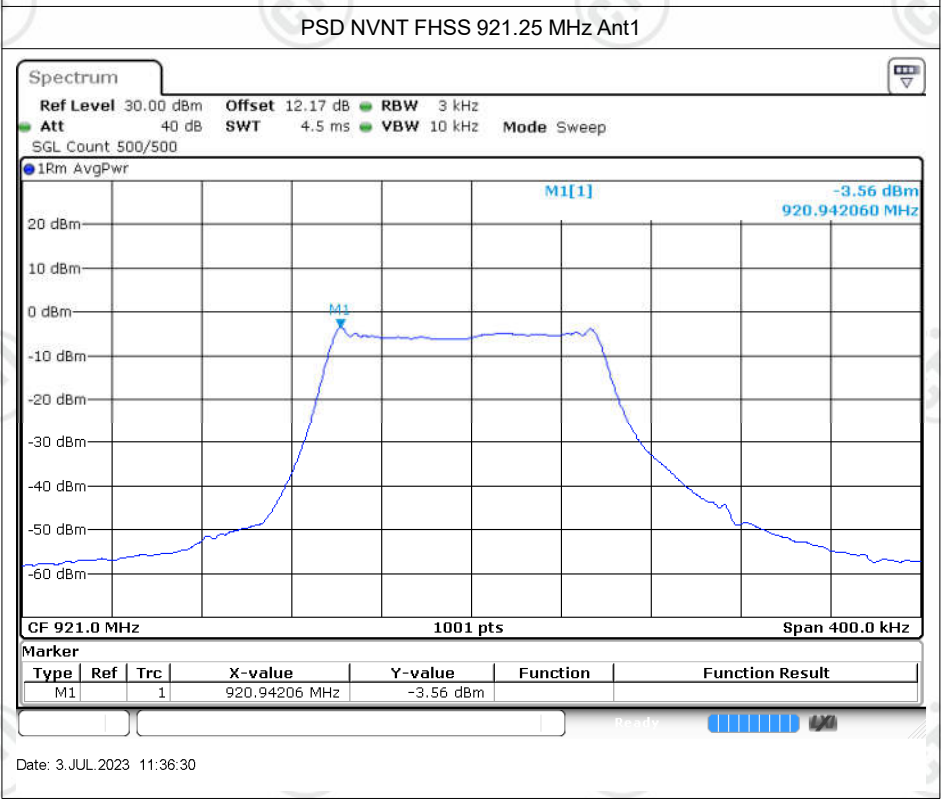
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Maximum Power Spectral Density Level

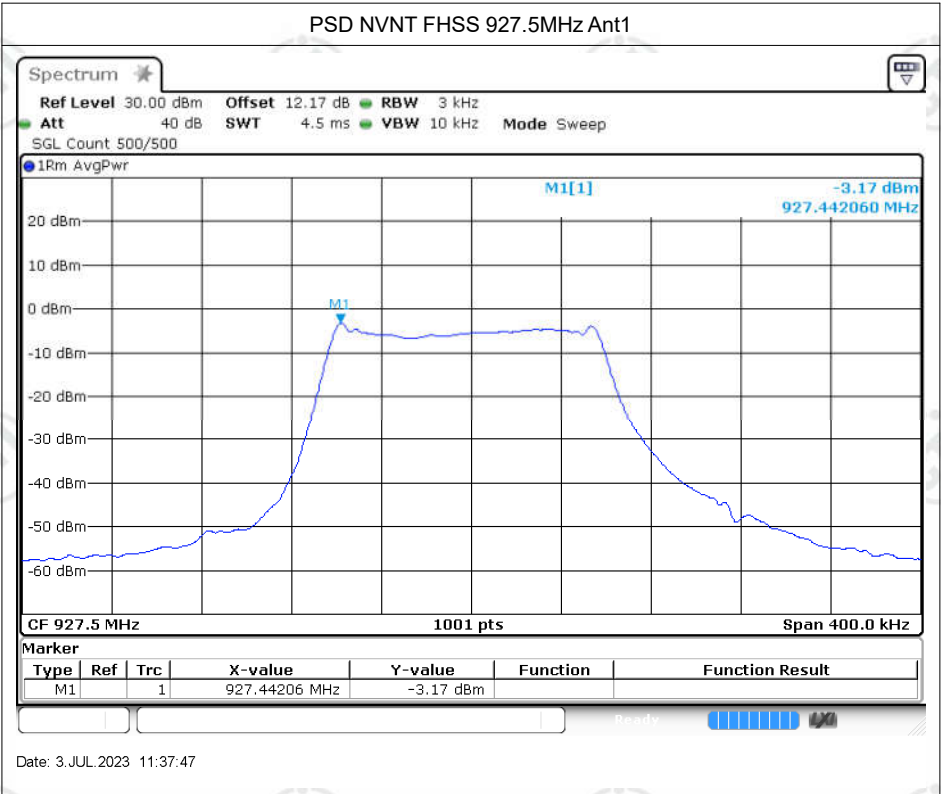
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	FHSS	915.25	Ant1	-3.87	8	Pass
NVNT	FHSS	921.25	Ant1	-3.56	8	Pass
NVNT	FHSS	927.50	Ant1	-3.17	8	Pass



Date: 3 JUL 2023 11:37:09



Date: 3 JUL 2023 11:36:30



*** End of Report ***