

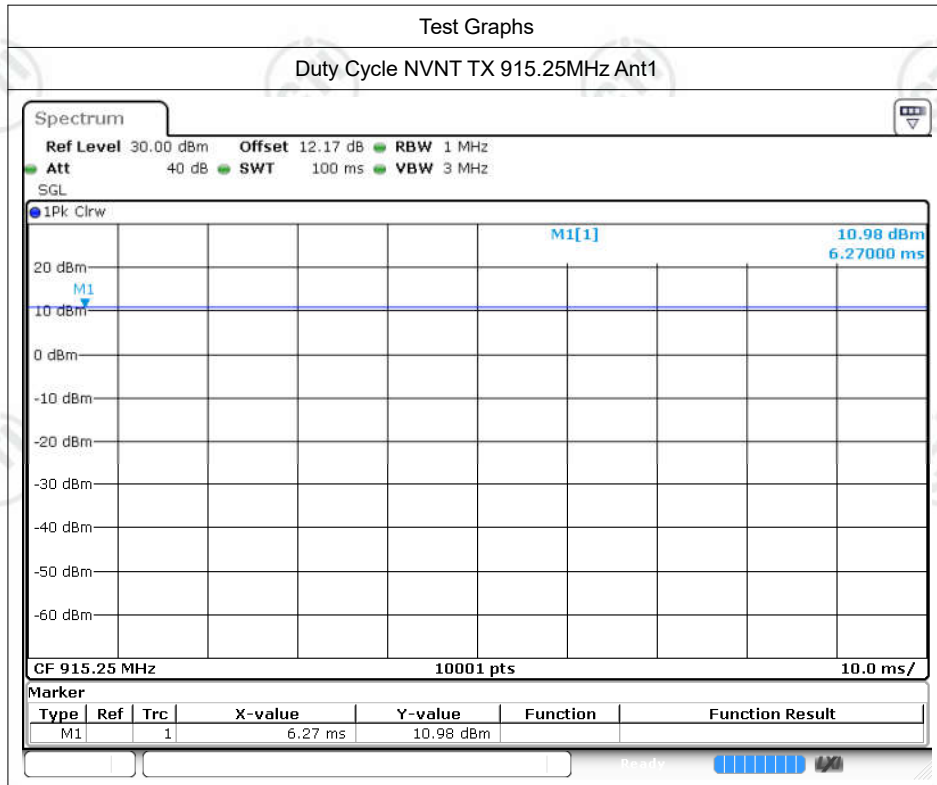
Appendix: Lora FHSS

## Contents

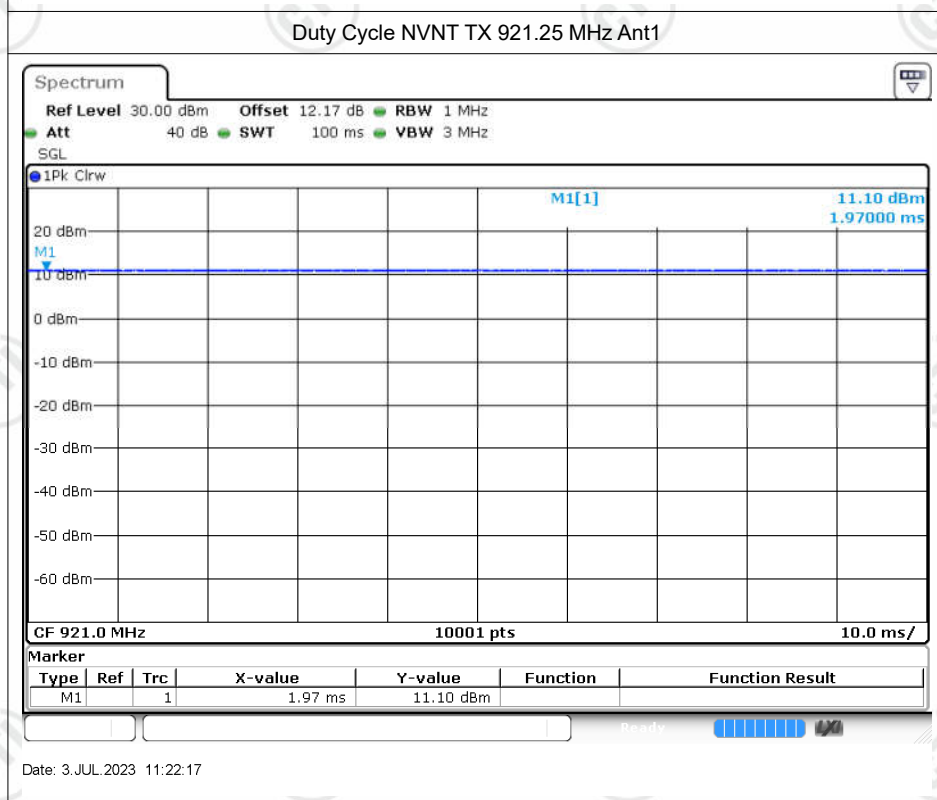
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## Duty Cycle

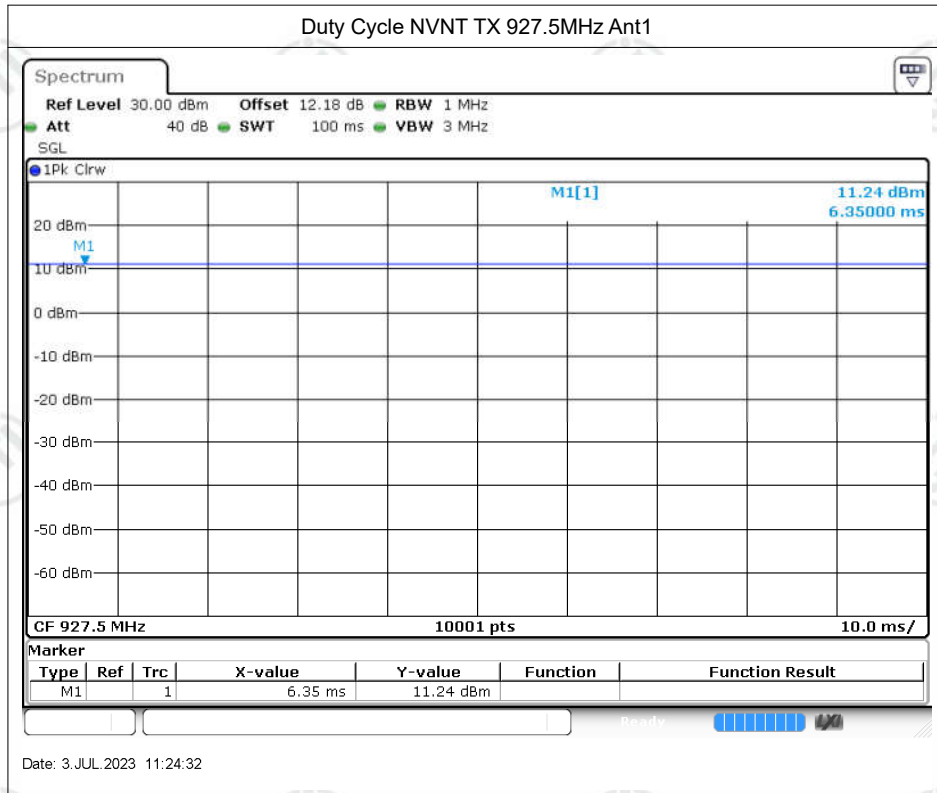
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	TX	915.25	Ant1	100	0	0
NVNT	TX	921.25	Ant1	100	0	0
NVNT	TX	927.50	Ant1	100	0	0



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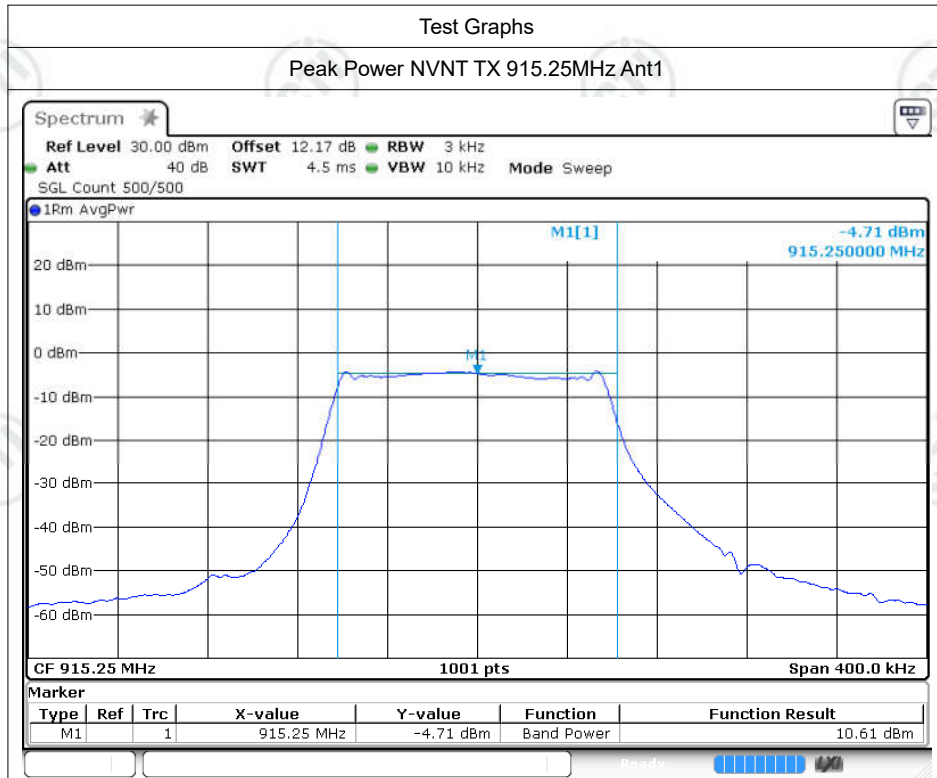


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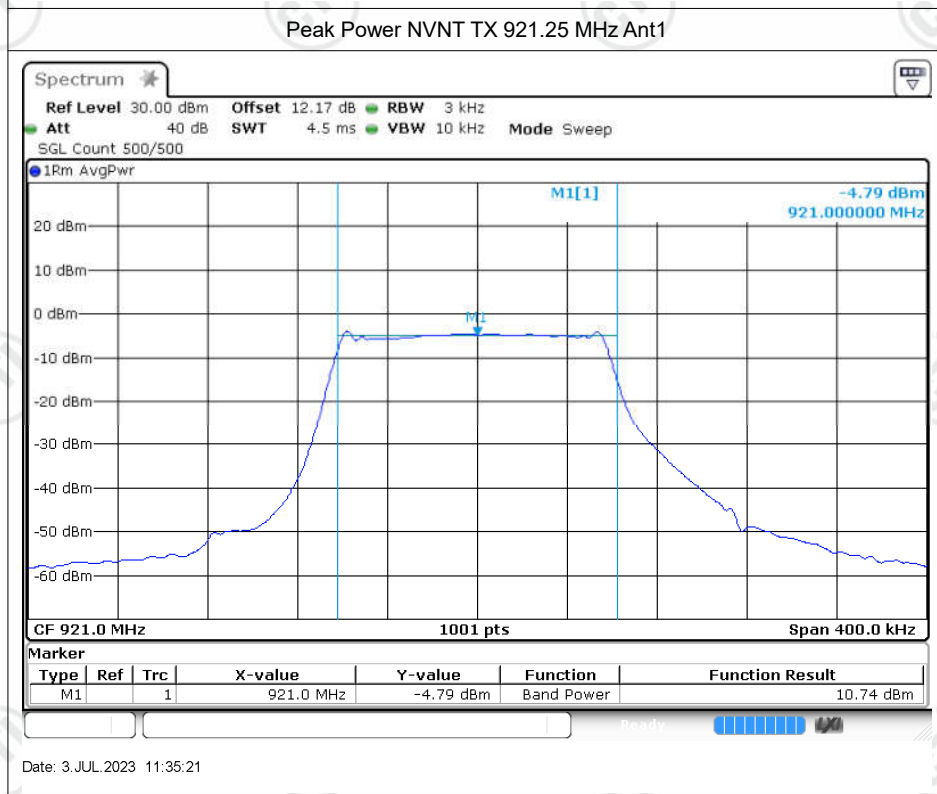


**Maximum Peak Conducted Output Power**

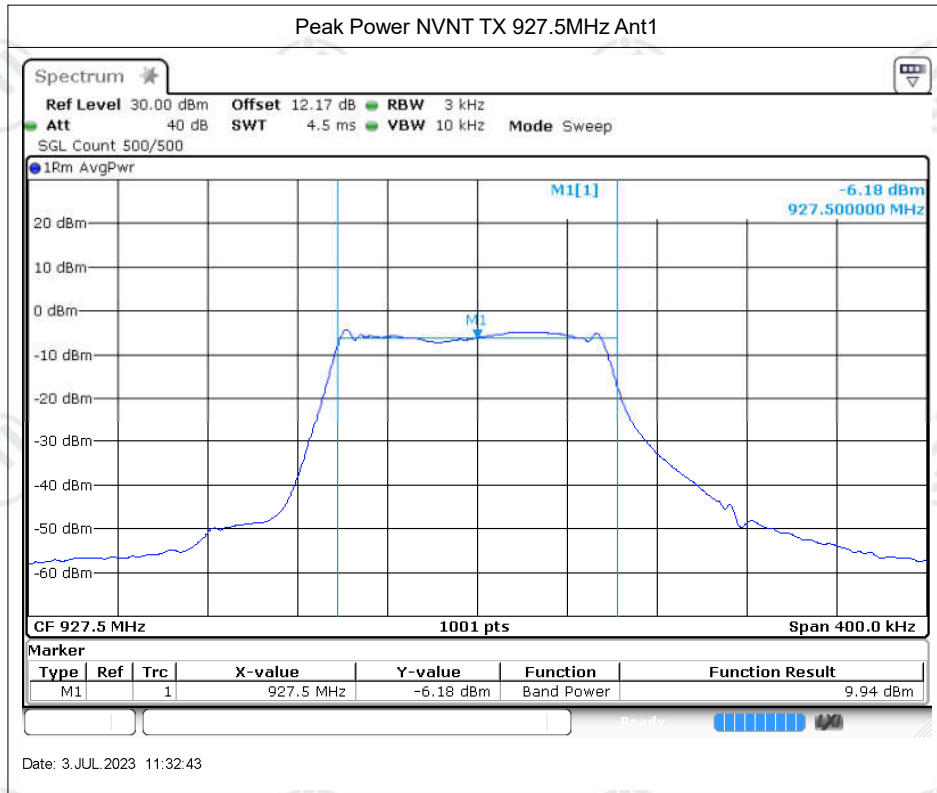
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	TX	915.25	Ant1	10.61	30	Pass
NVNT	TX	921.25	Ant1	<b>10.74</b>	30	Pass
NVNT	TX	927.50	Ant1	9.94	30	Pass



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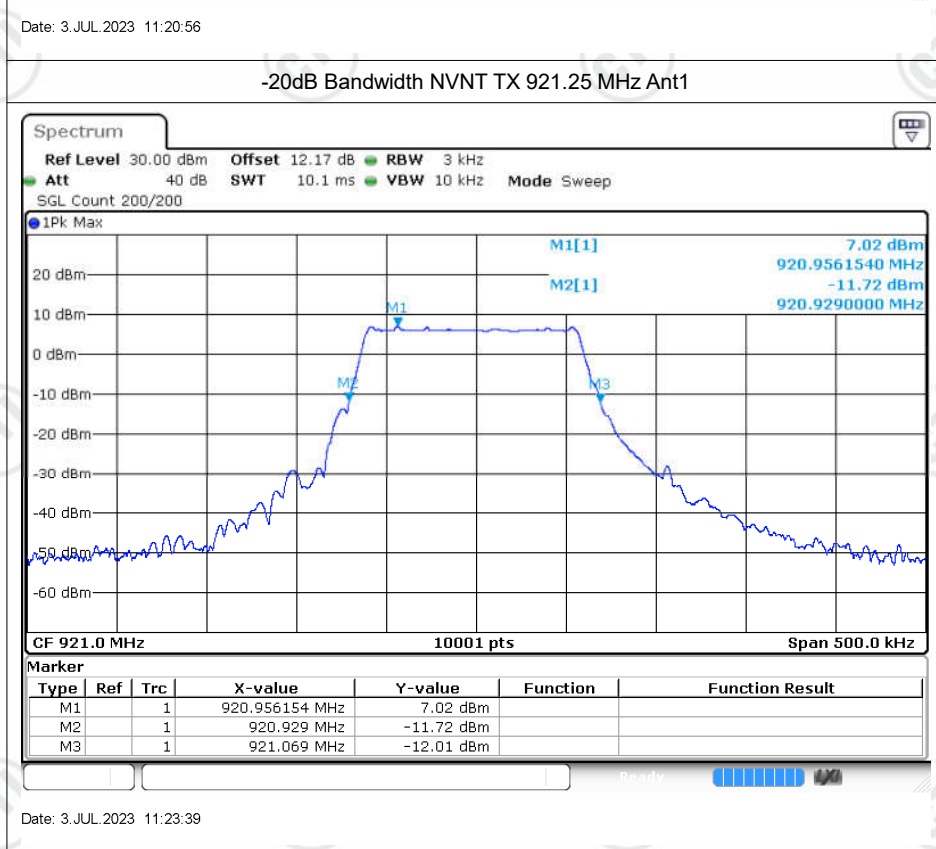
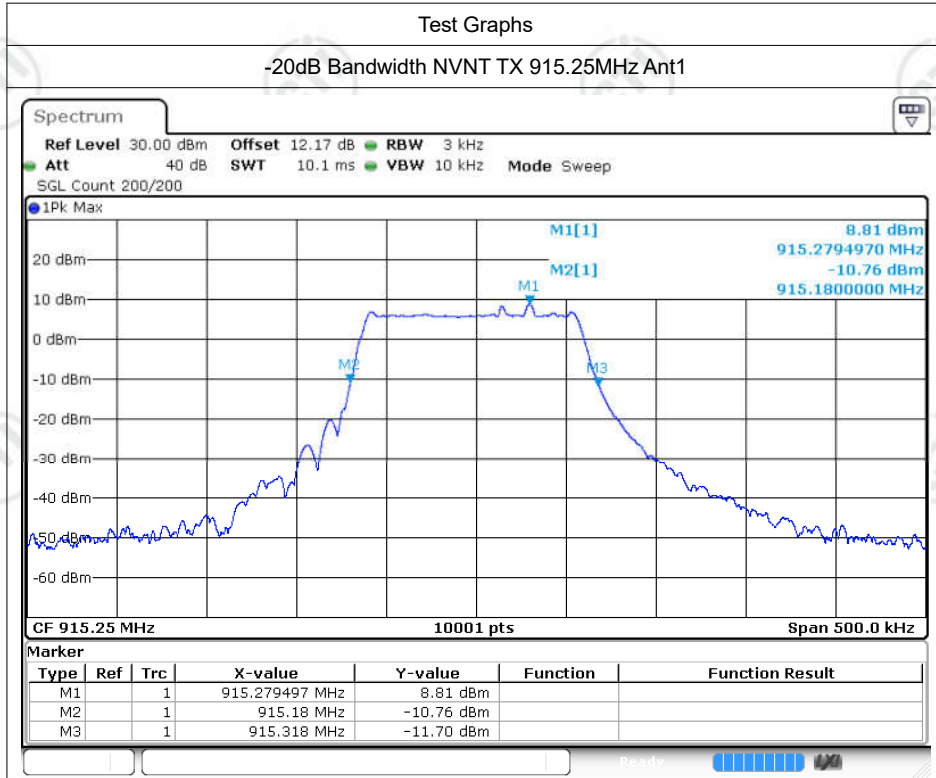
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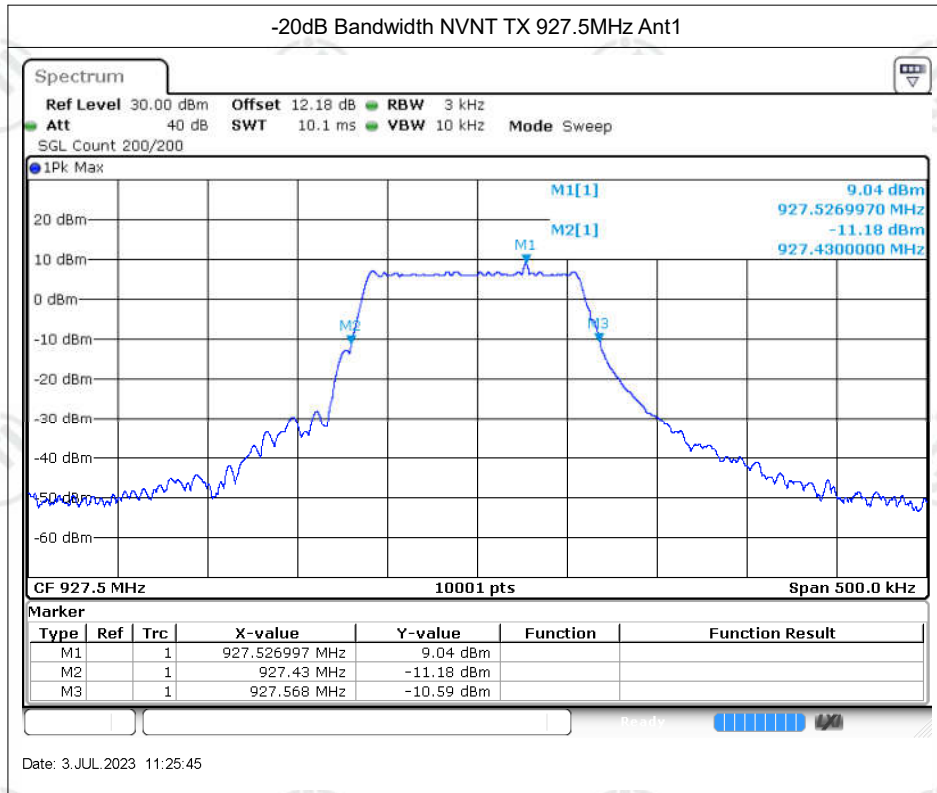




**-20dB Bandwidth**

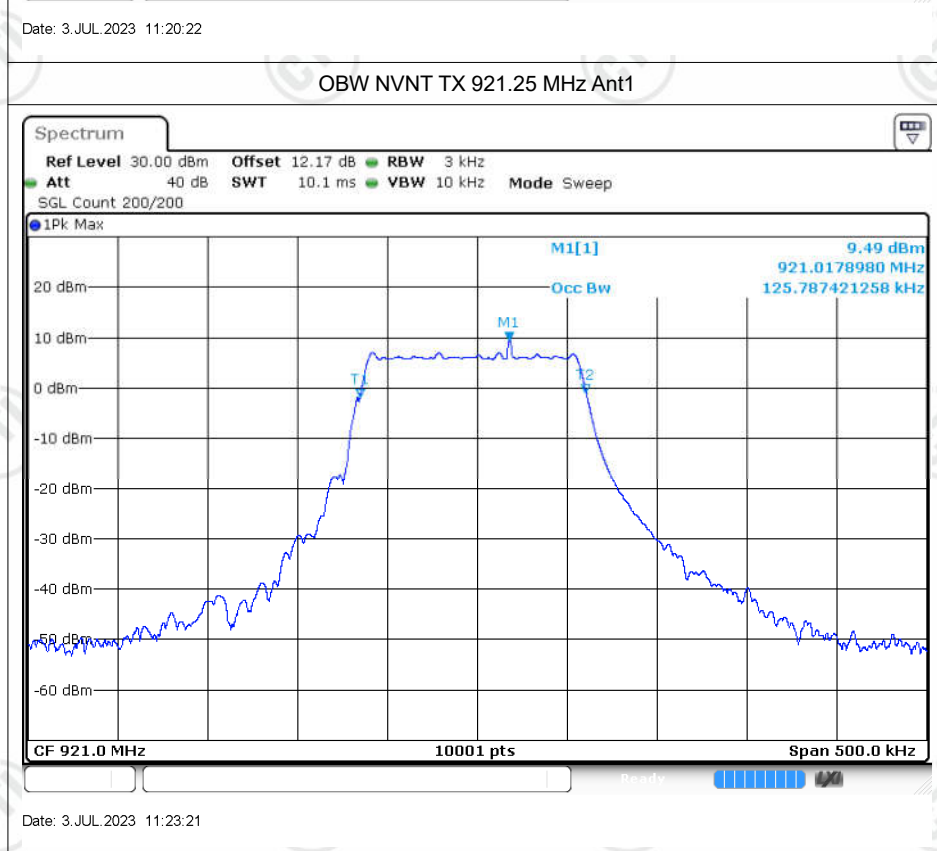
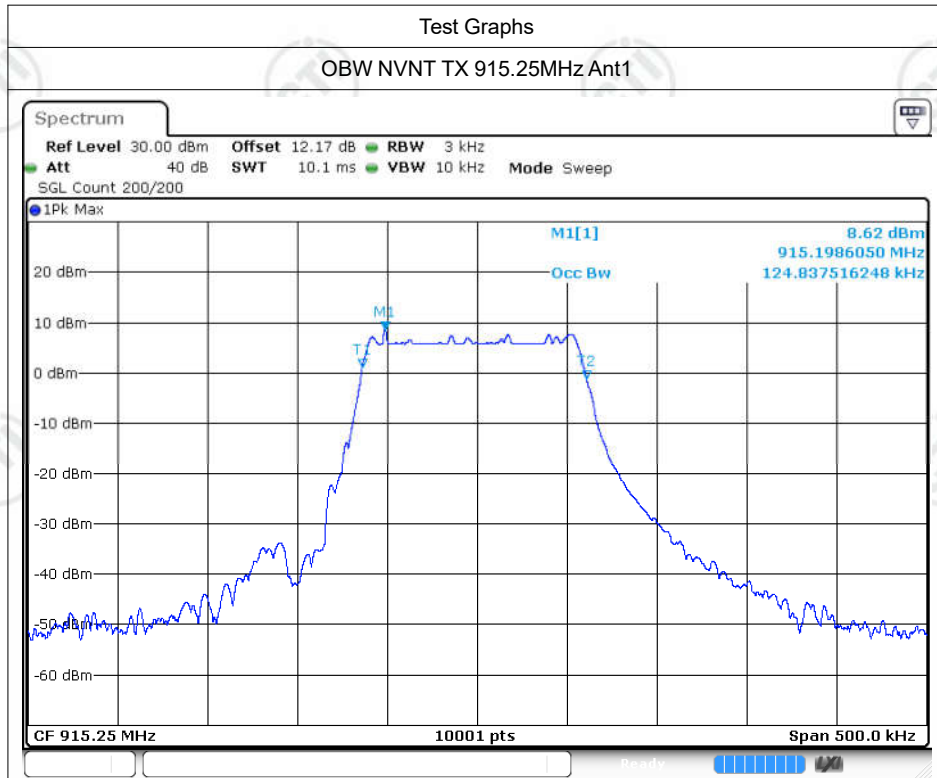
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	TX	915.25	Ant1	0.138	---	Pass
NVNT	TX	921.00	Ant1	0.141	---	Pass
NVNT	TX	927.50	Ant1	0.138	---	Pass

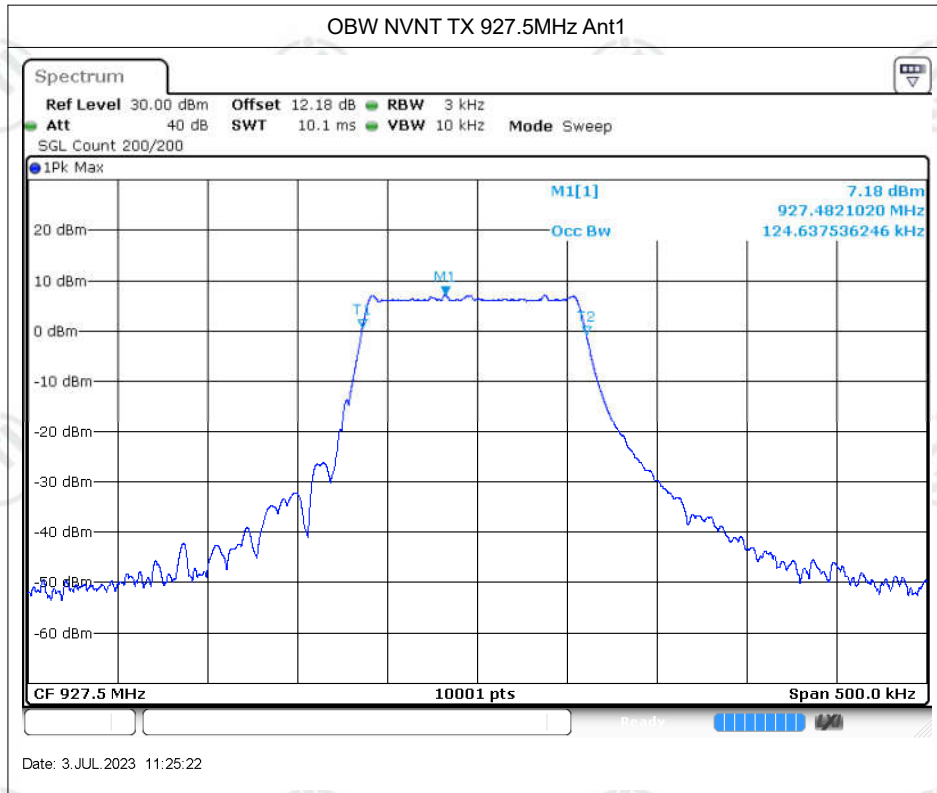




## Occupied Channel Bandwidth

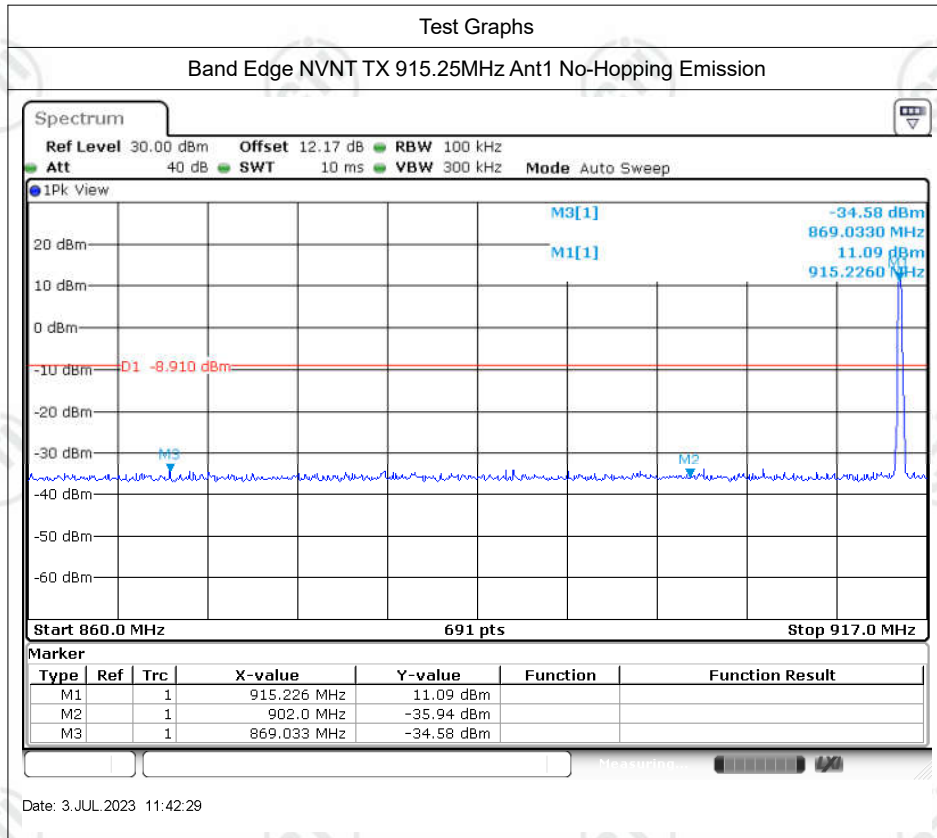
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	TX	915.25	Ant1	0.125
NVNT	TX	921.25	Ant1	0.126
NVNT	TX	927.50	Ant1	0.125



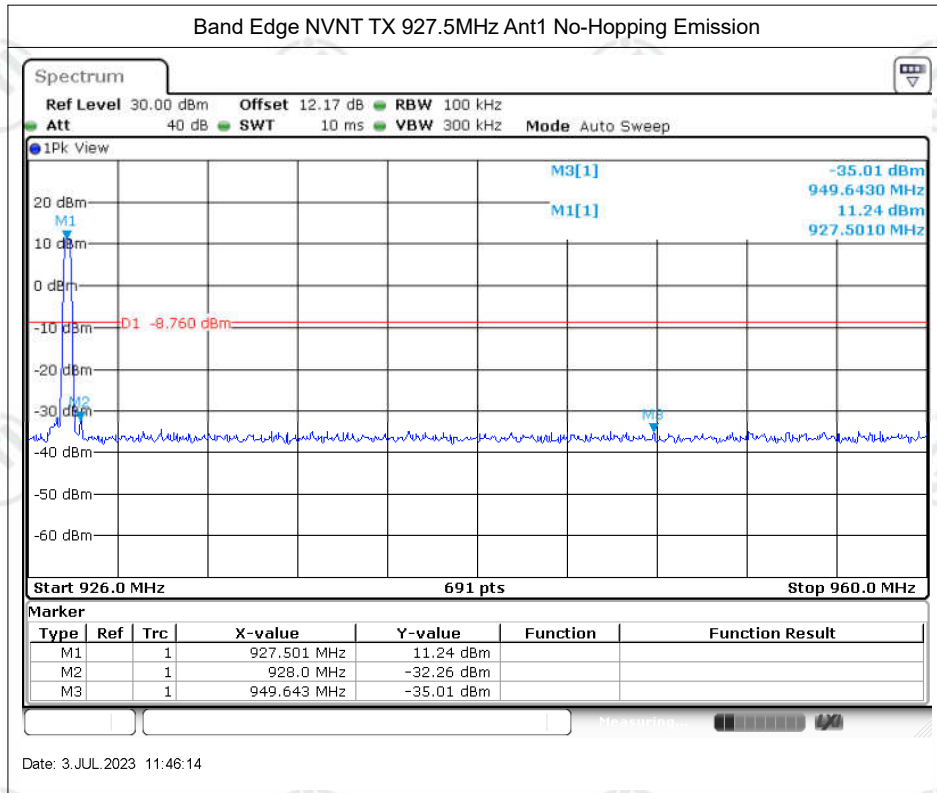


## Band Edge

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

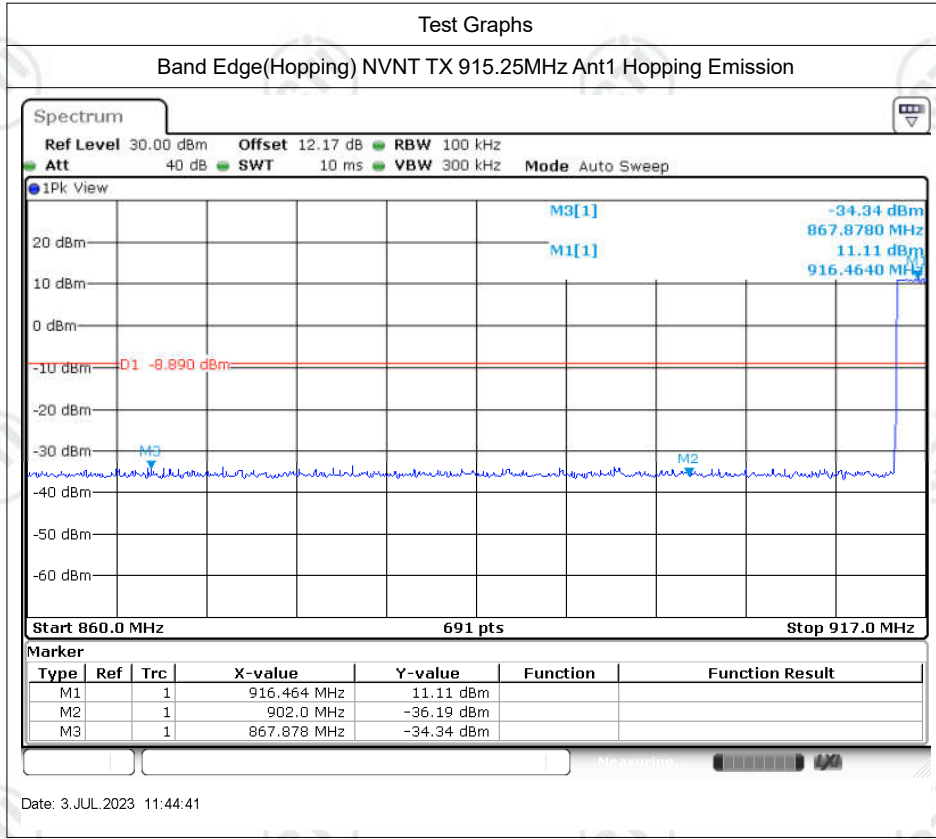


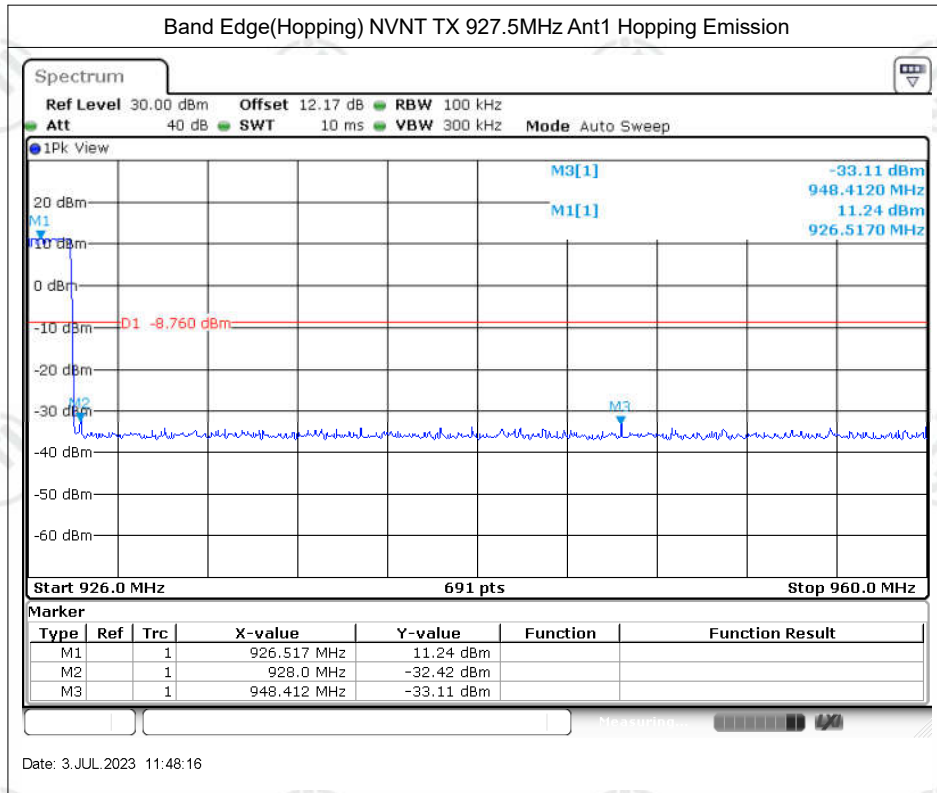




**Band Edge(Hopping)**

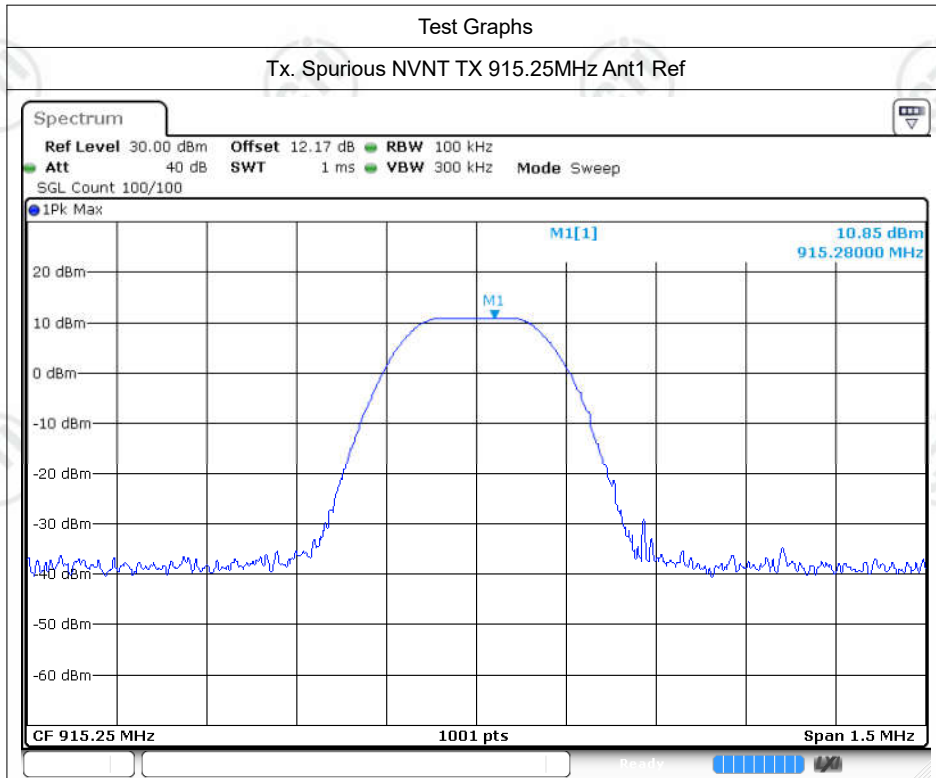
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	TX	915.25	Ant1	Hopping	-36.19	20	Pass
NVNT	TX	927.50	Ant1	Hopping	-32.42	20	Pass



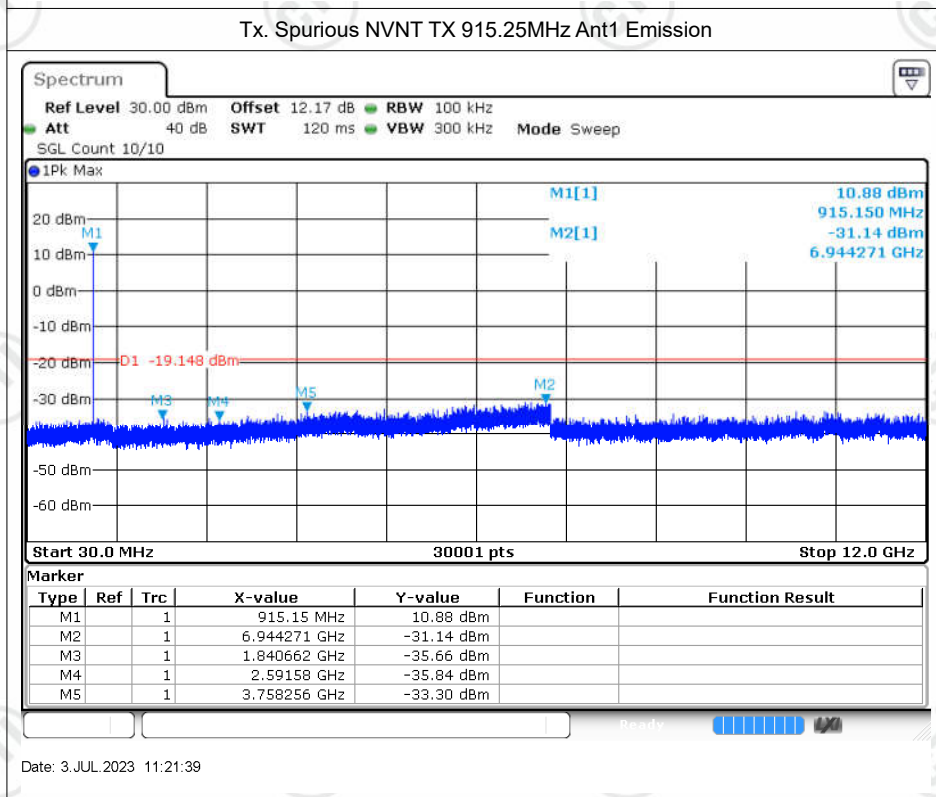


**Conducted RF Spurious Emission**

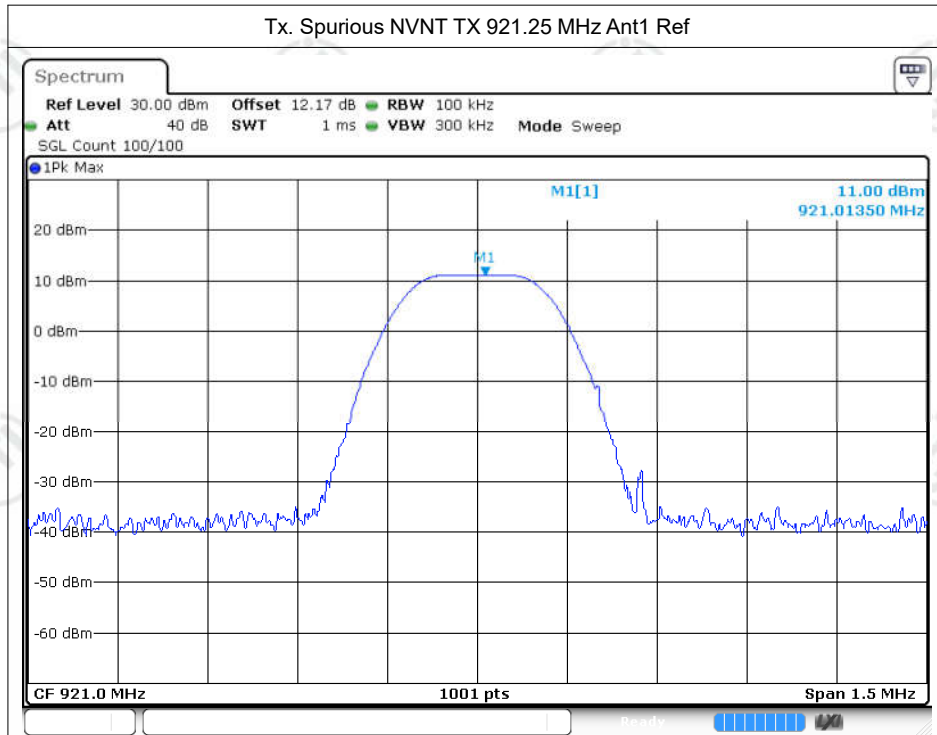
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	TX	915.25	Ant1	-41.98	-30	Pass
NVNT	TX	921.25	Ant1	-41.30	-30	Pass
NVNT	TX	927.50	Ant1	-44.00	-30	Pass



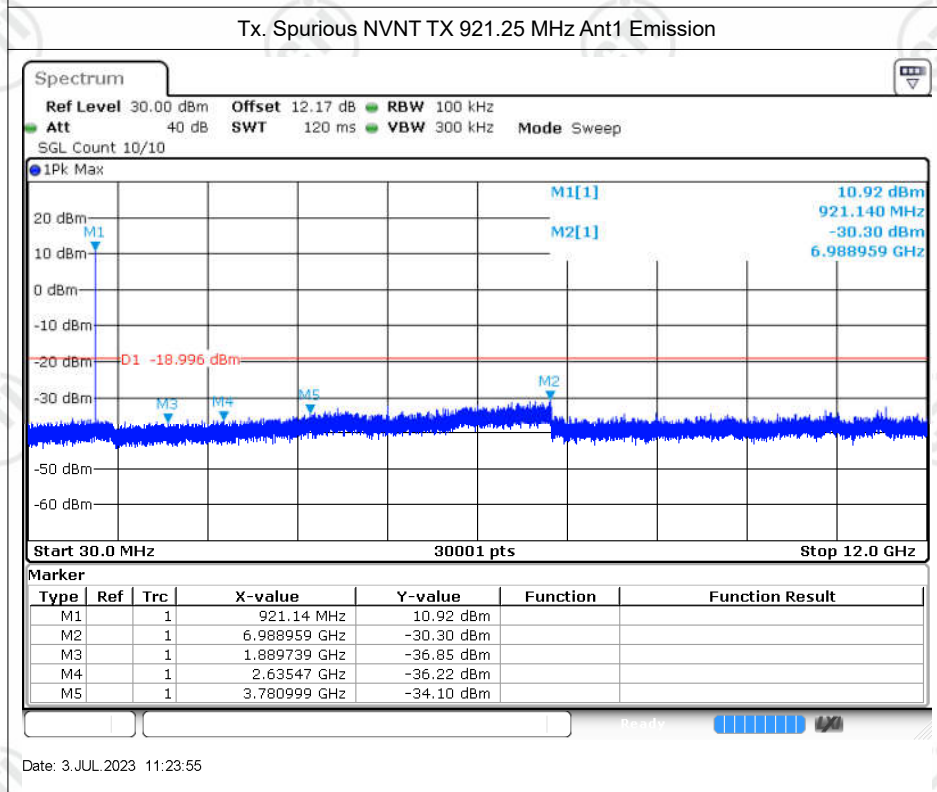
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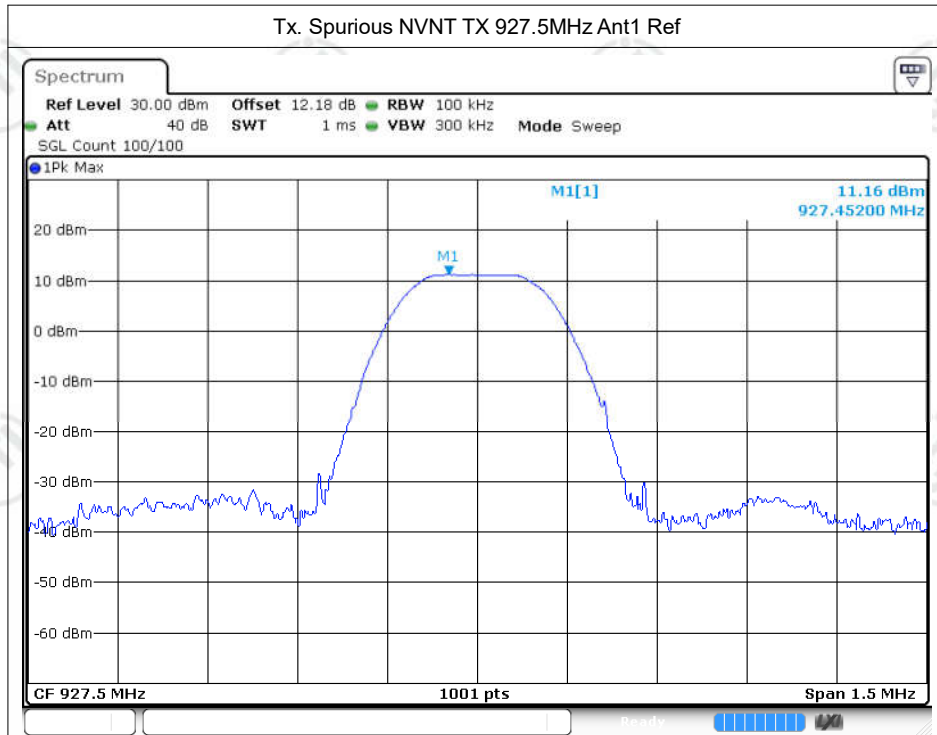
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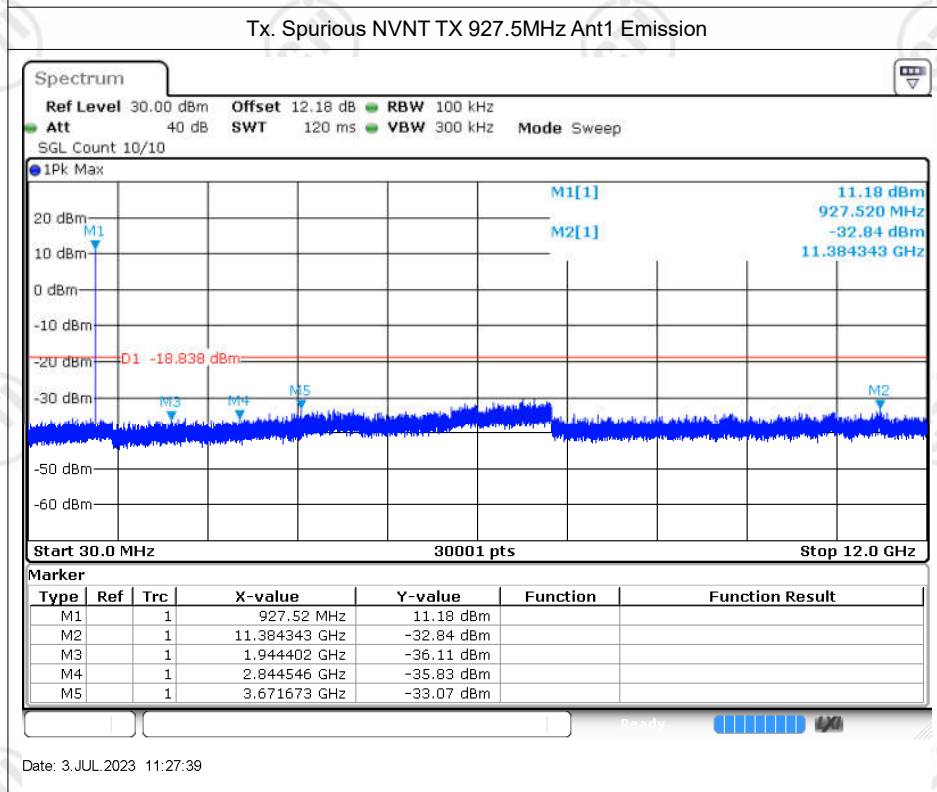
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Date: 3.JUL.2023 11:27:32

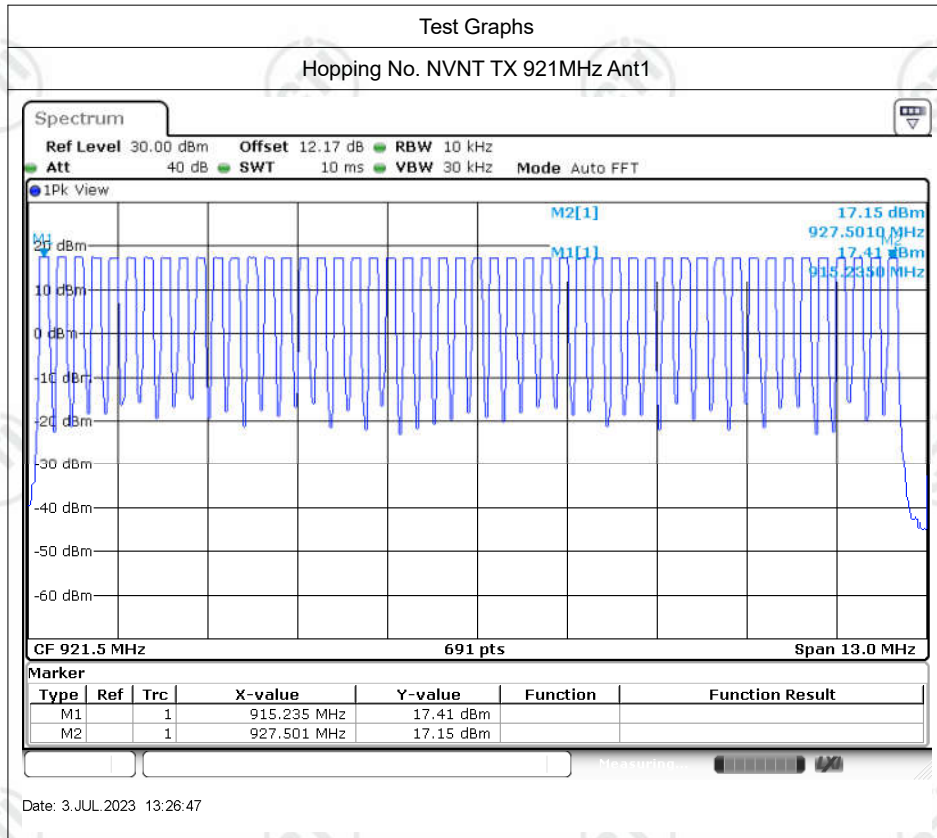


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## Number of Hopping Channel

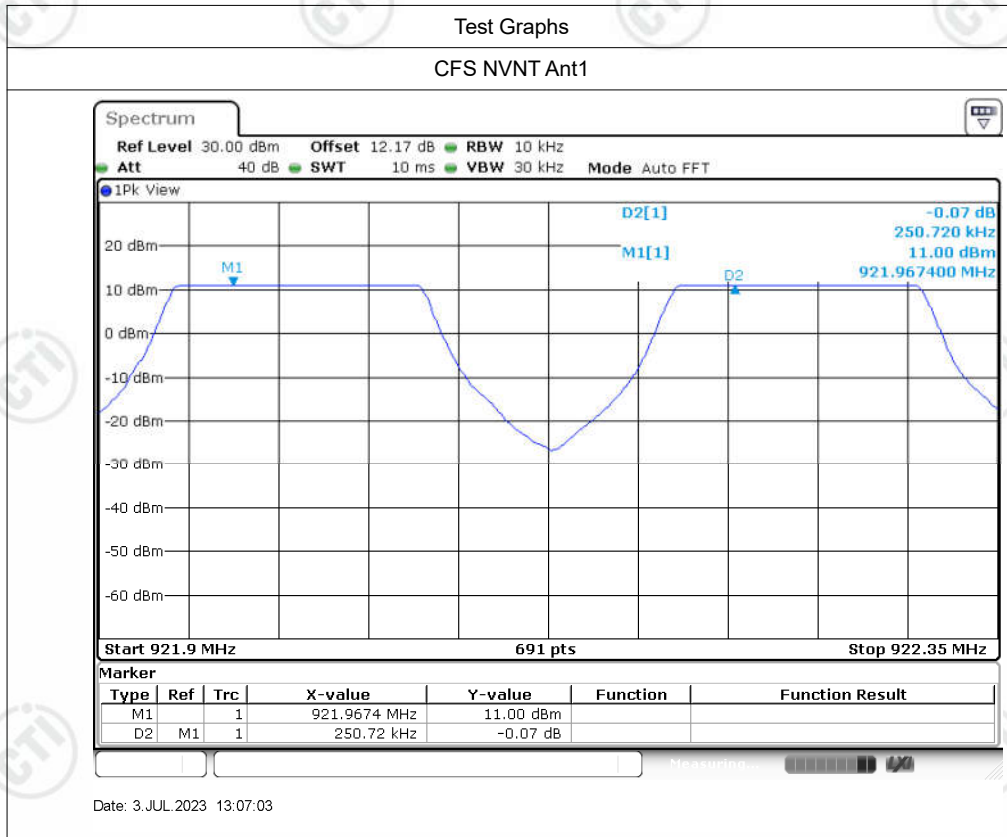
Condition	Mode	Antenna	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	FHSS	Ant1	50	15	100	70	Pass



## 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

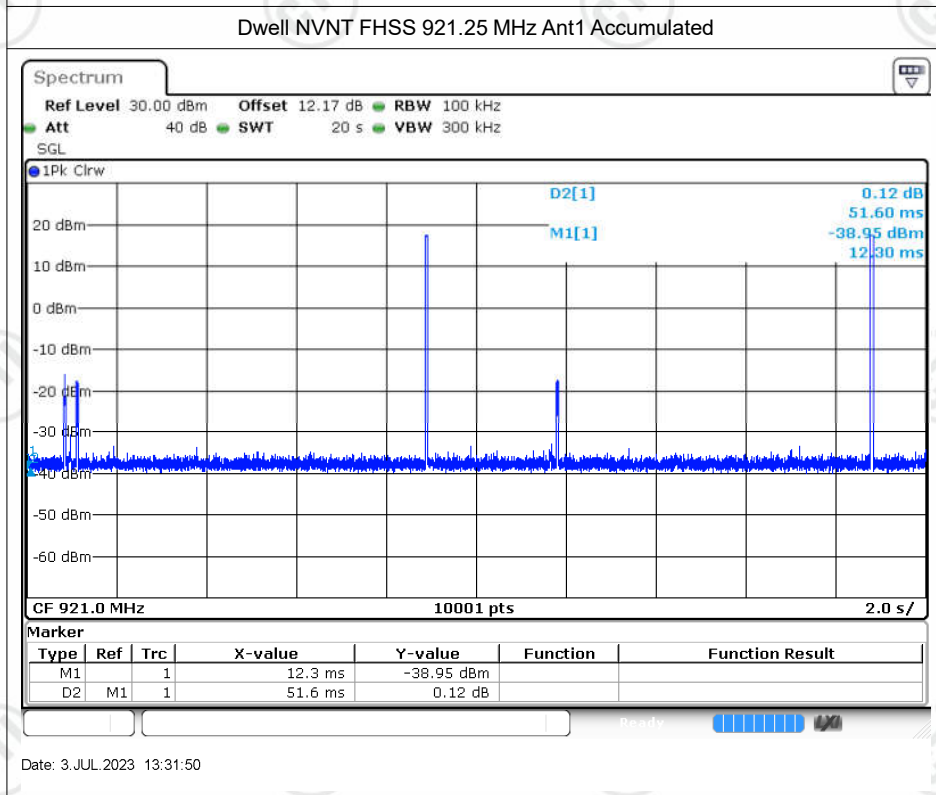
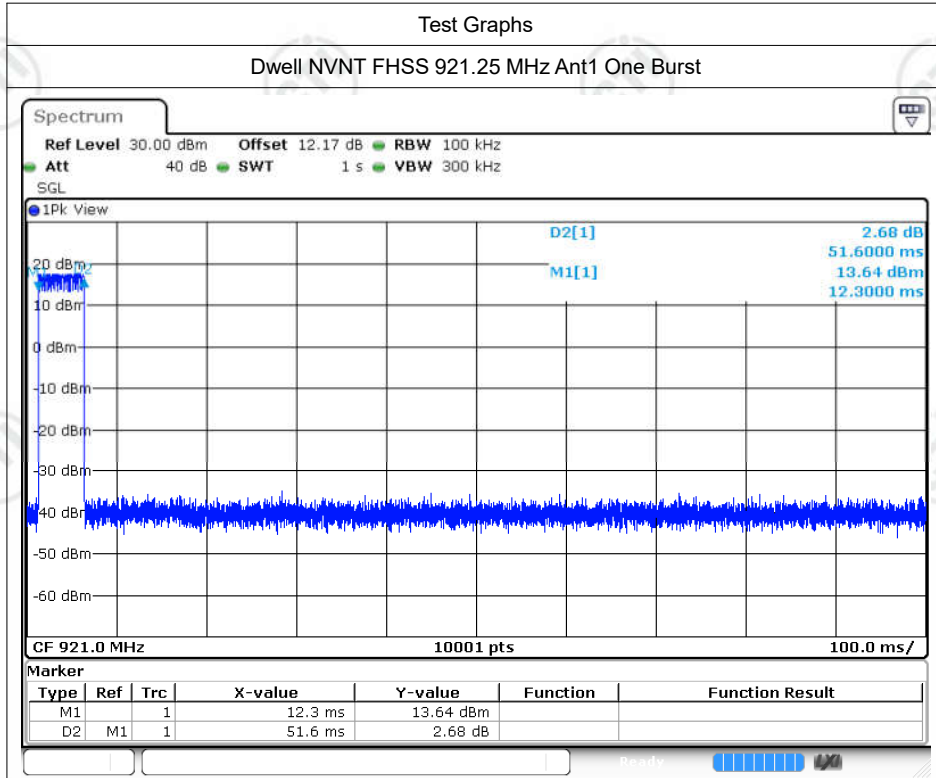
Note: Only the worst case data was recorded in the report.



## Dwell Time

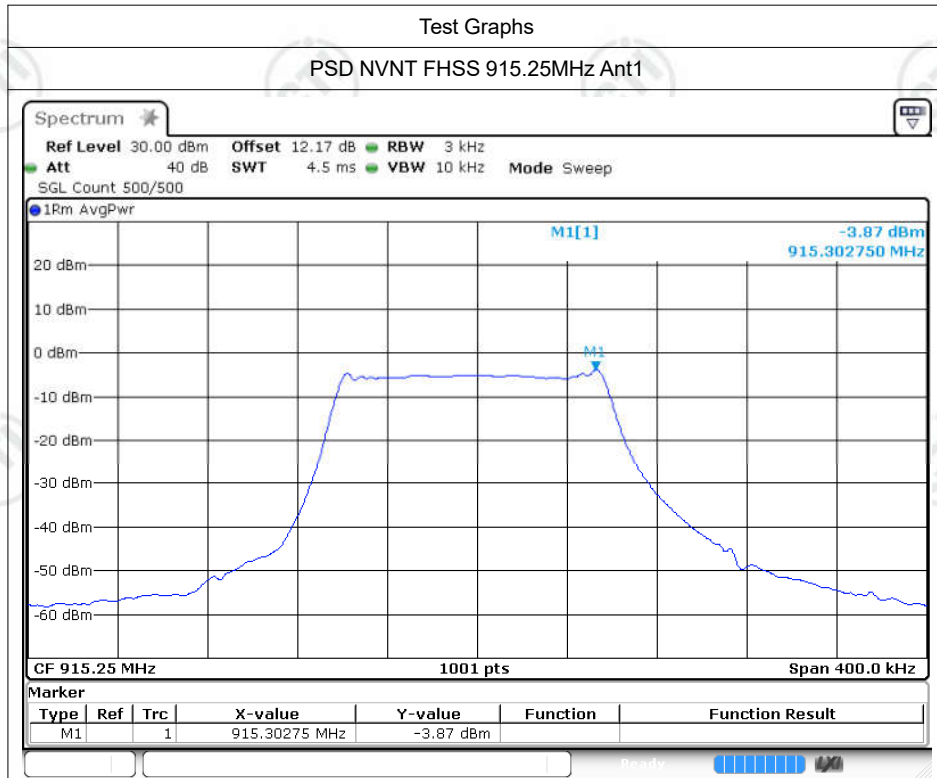
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	FHSS	921.25	Ant1	51.6	103.2	2	20000	400	Pass

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

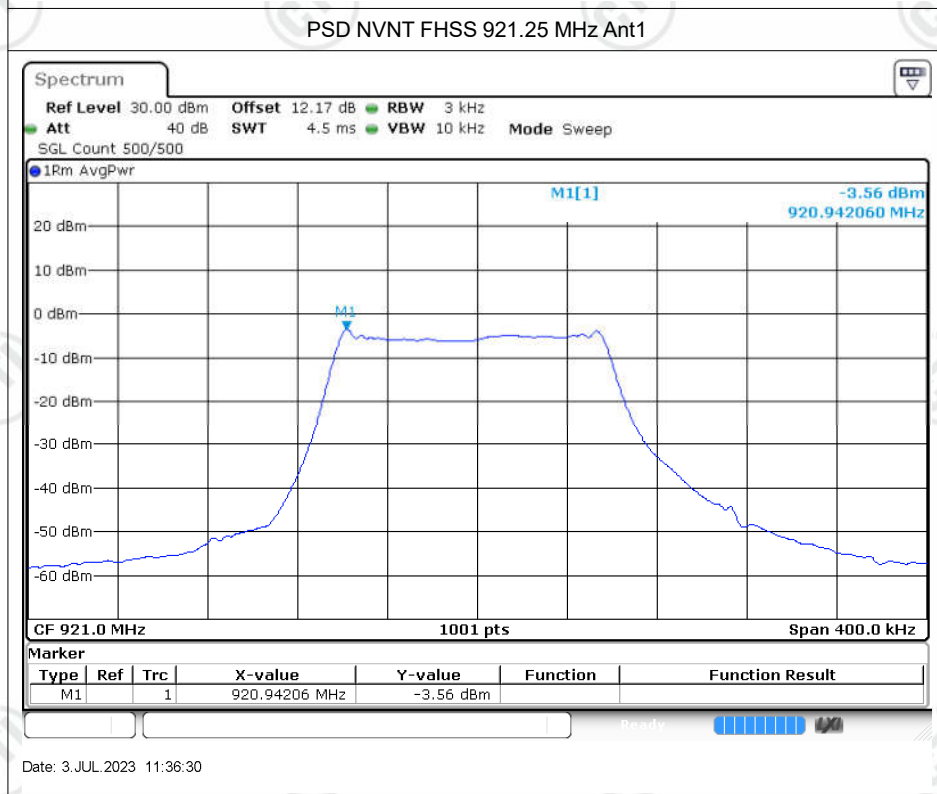


**Maximum Power Spectral Density Level**

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

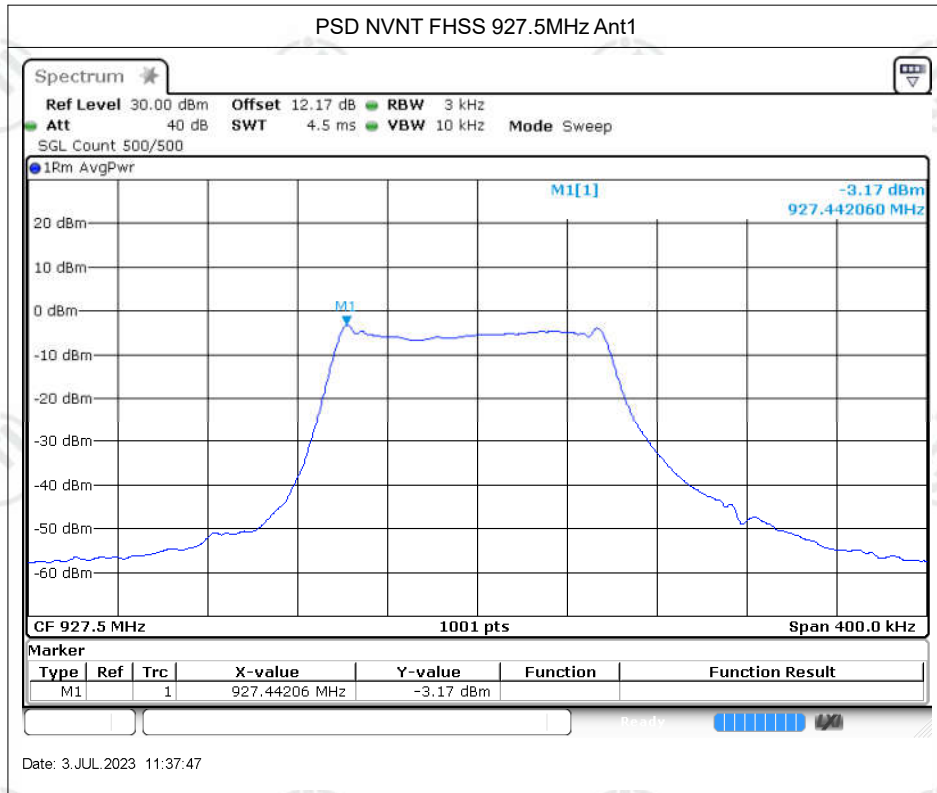


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\*\*\* End of Report \*\*\*