

Appendix: Lora FHSS

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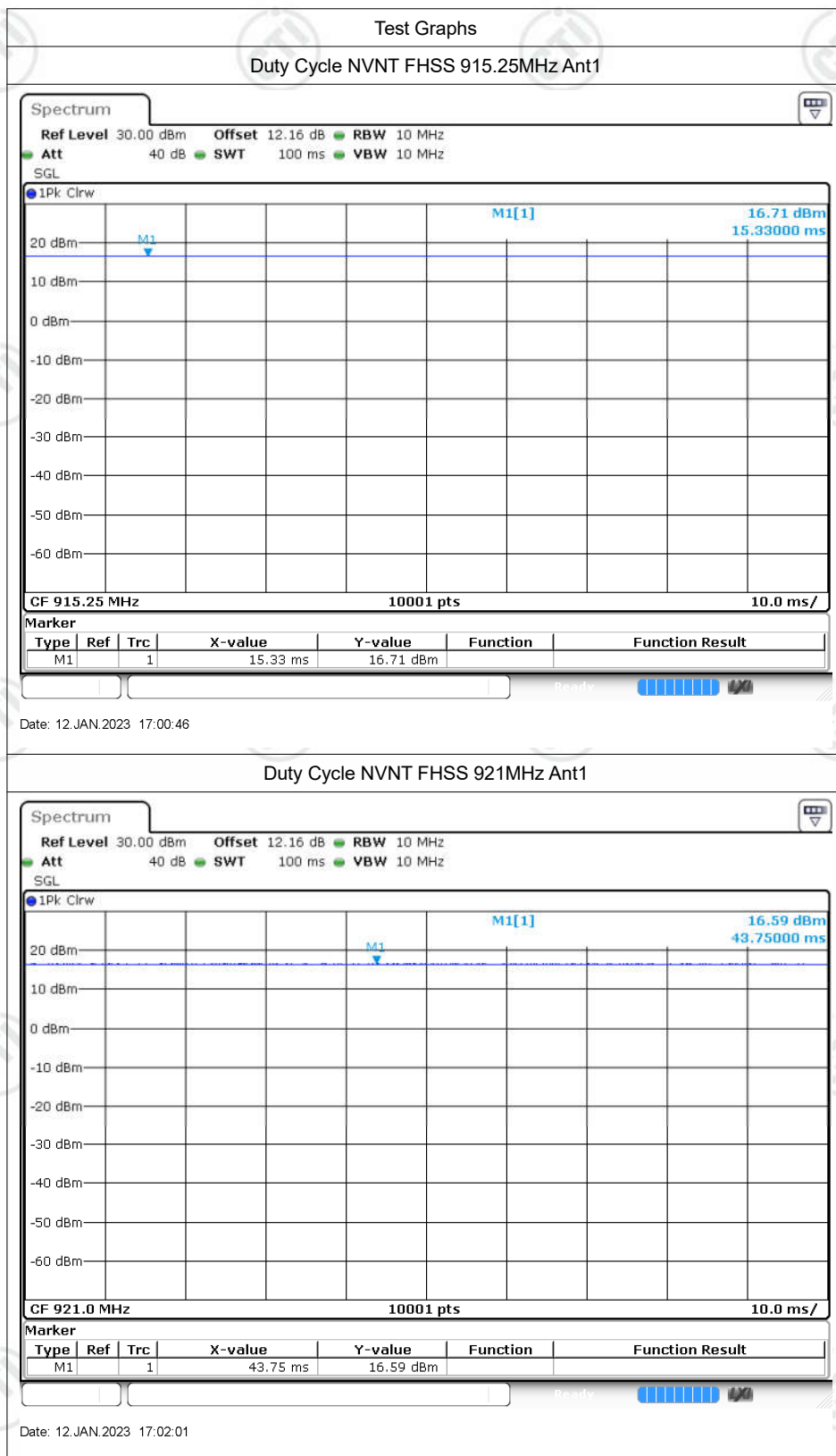
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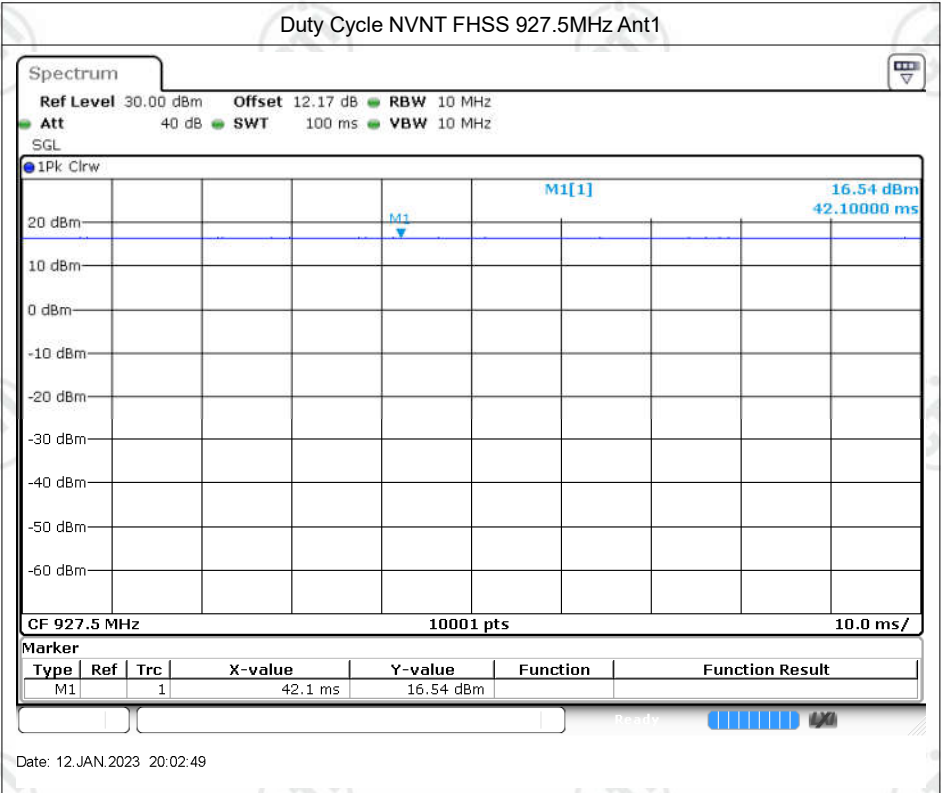
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Duty Cycle

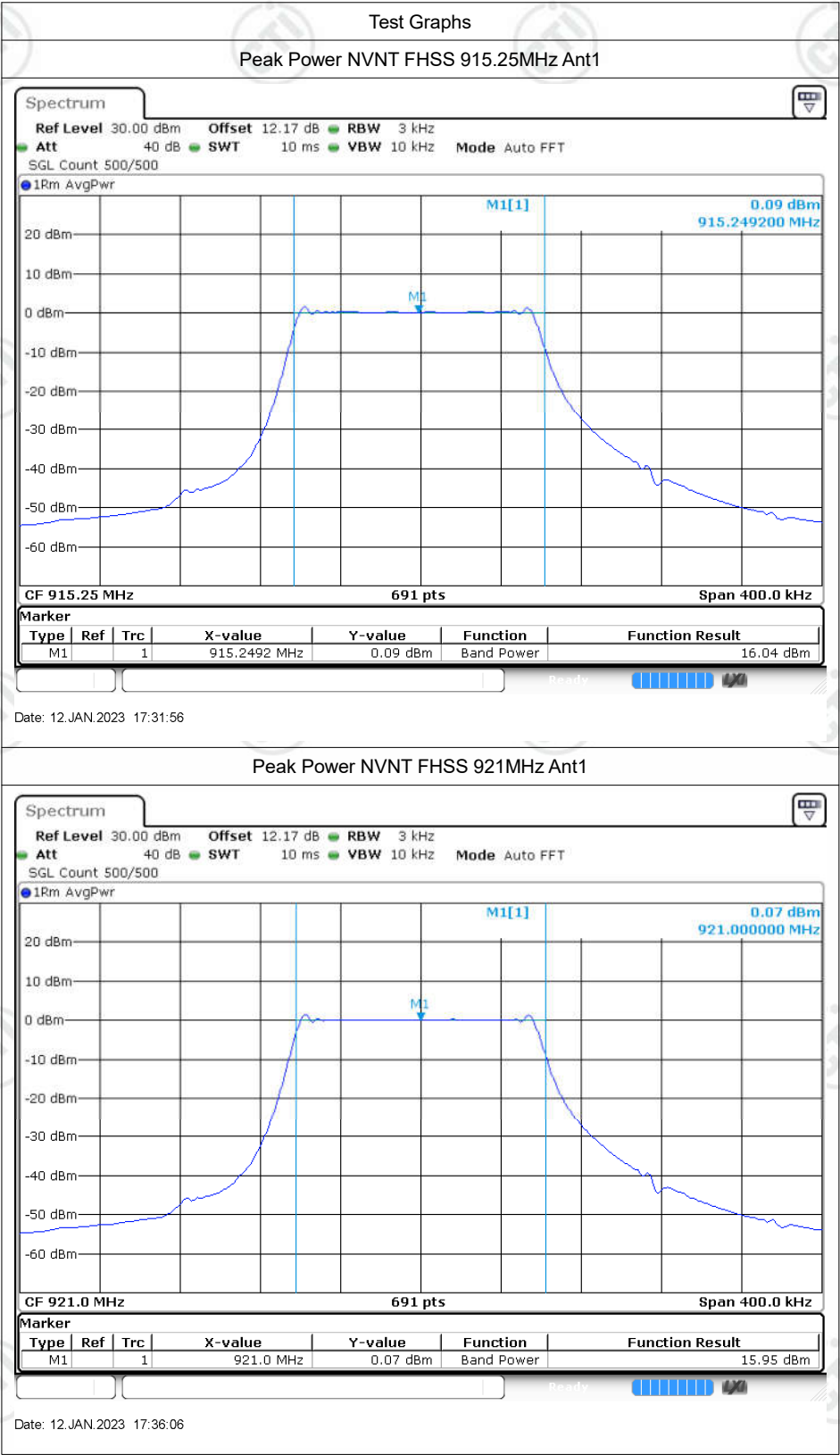
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	FHSS	915.25	Ant1	100	0	0
NVNT	FHSS	921	Ant1	100	0	0
NVNT	FHSS	927.5	Ant1	100	0	0

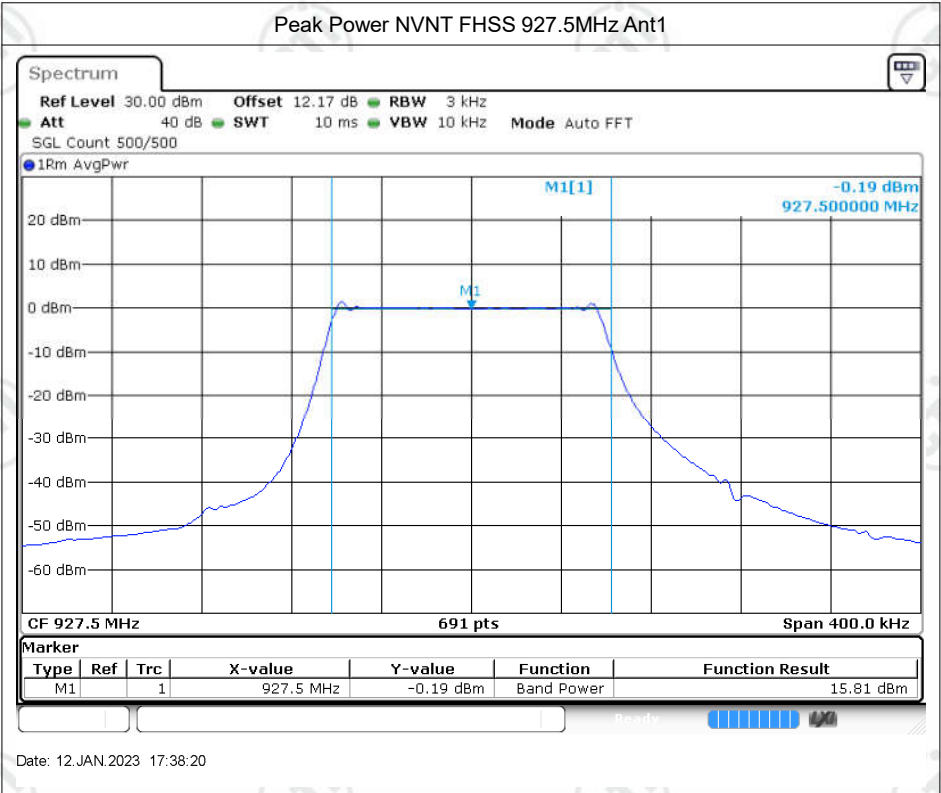




Maximum Peak Conducted Output Power

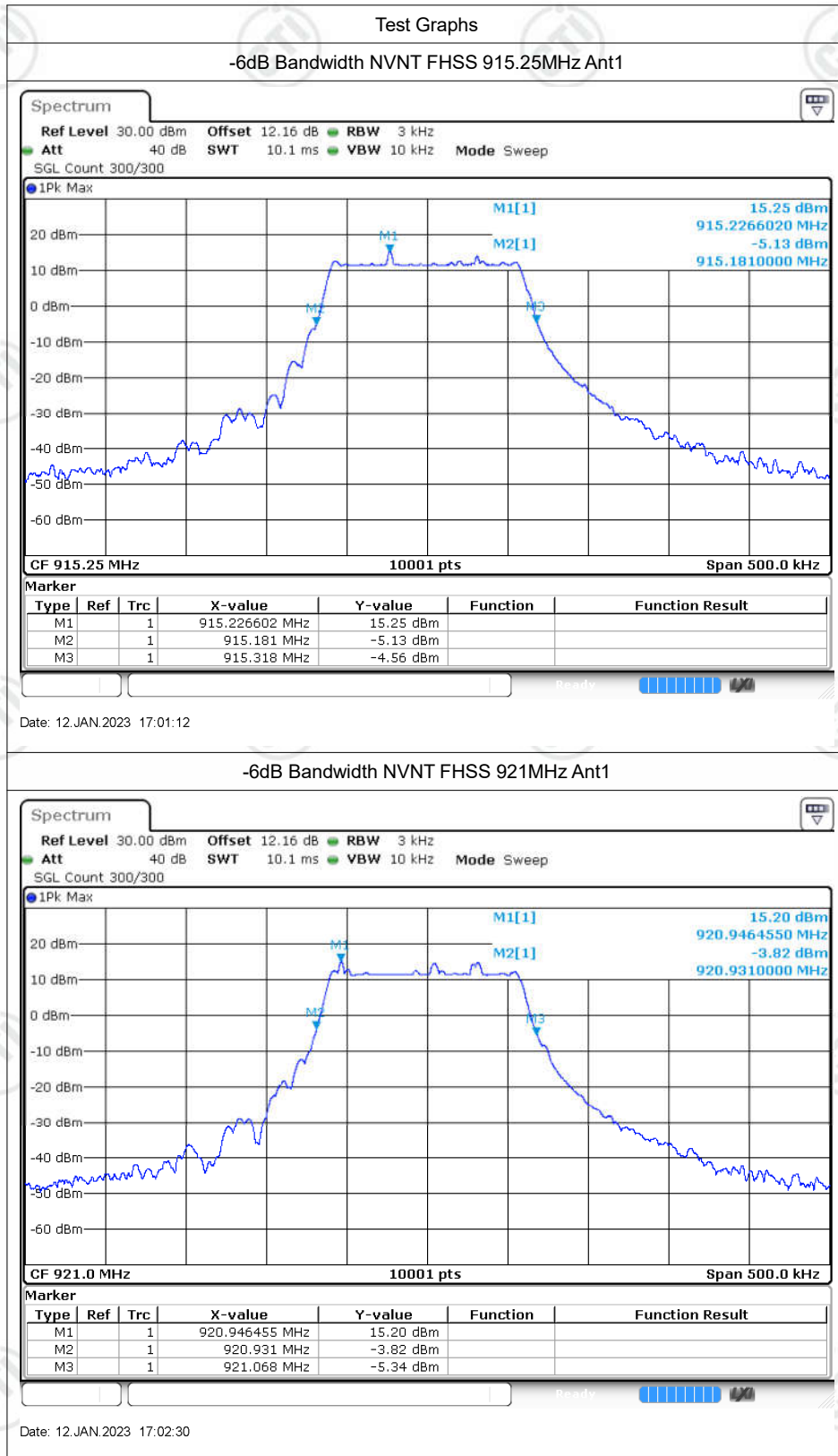
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	FHSS	915.25	Ant1	16.04	30	Pass
NVNT	FHSS	921	Ant1	15.95	30	Pass
NVNT	FHSS	927.5	Ant1	15.81	30	Pass

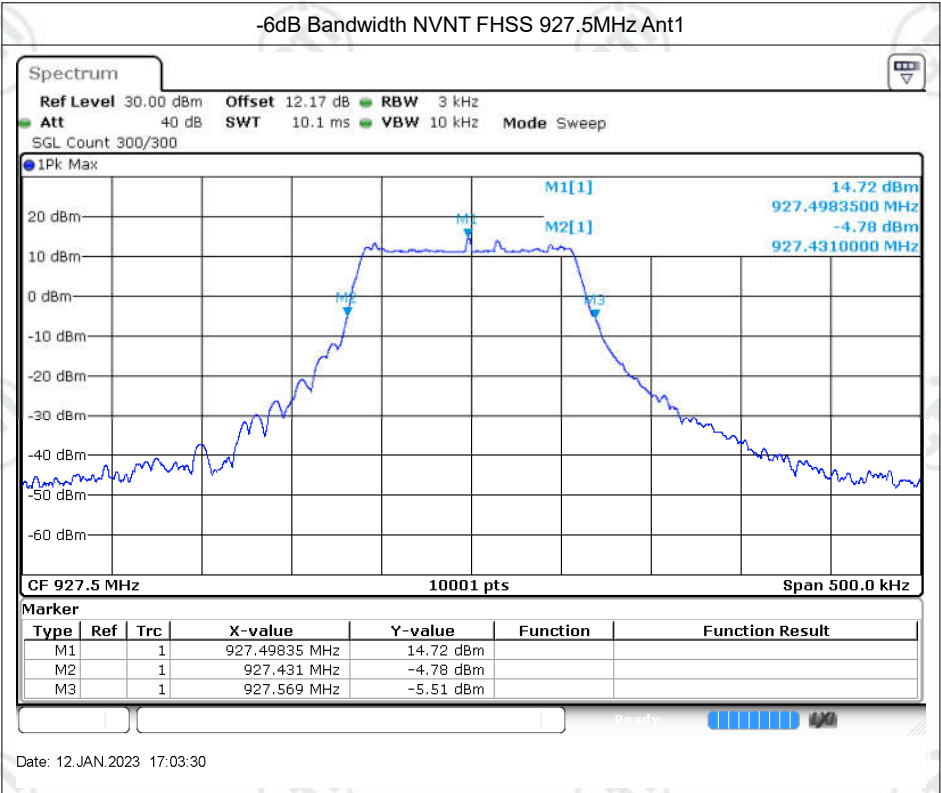




-20dB Bandwidth

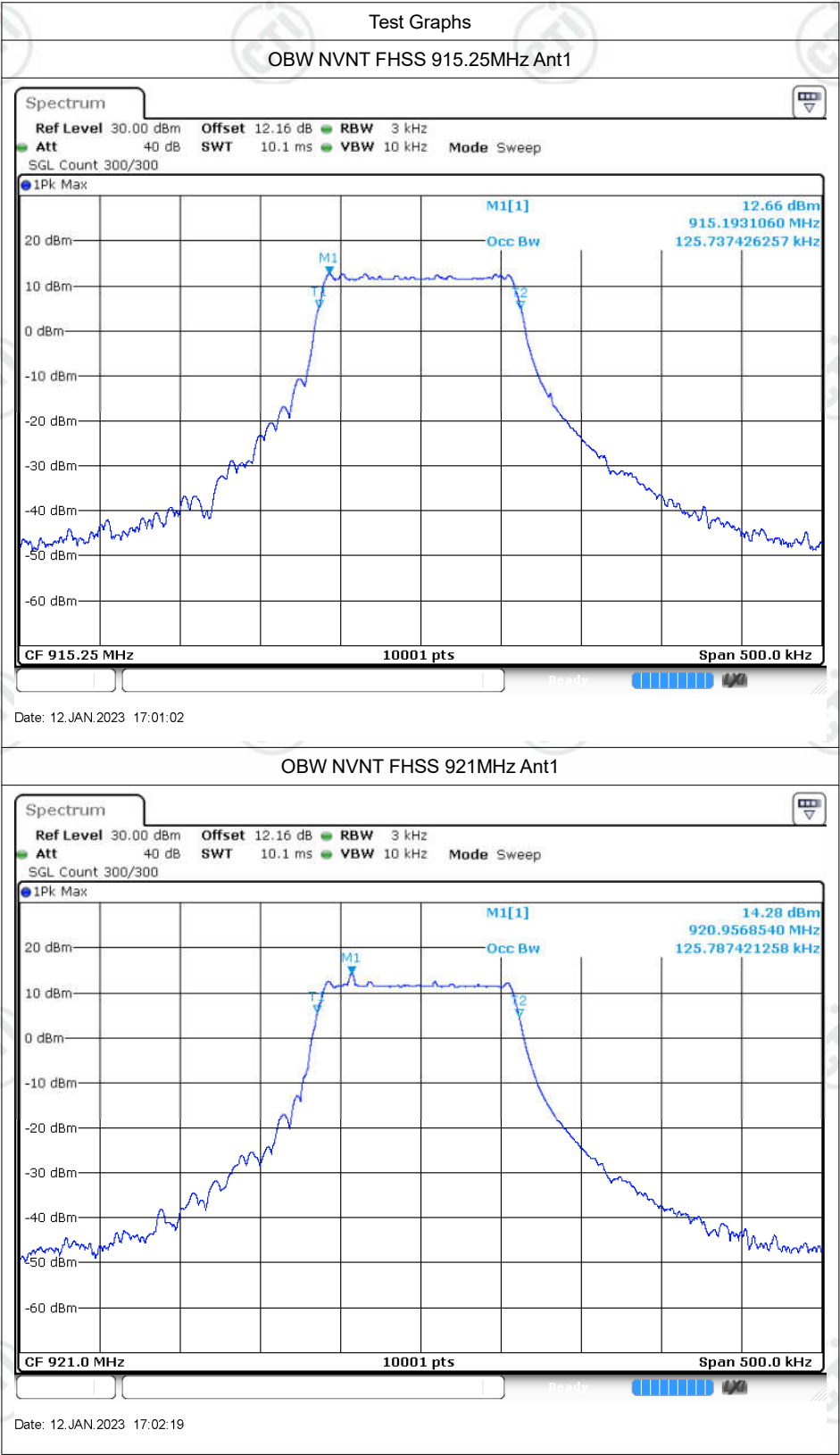
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	FHSS	915.25	Ant1	0.137	----	Pass
NVNT	FHSS	921	Ant1	0.137	----	Pass
NVNT	FHSS	927.5	Ant1	0.138	----	Pass

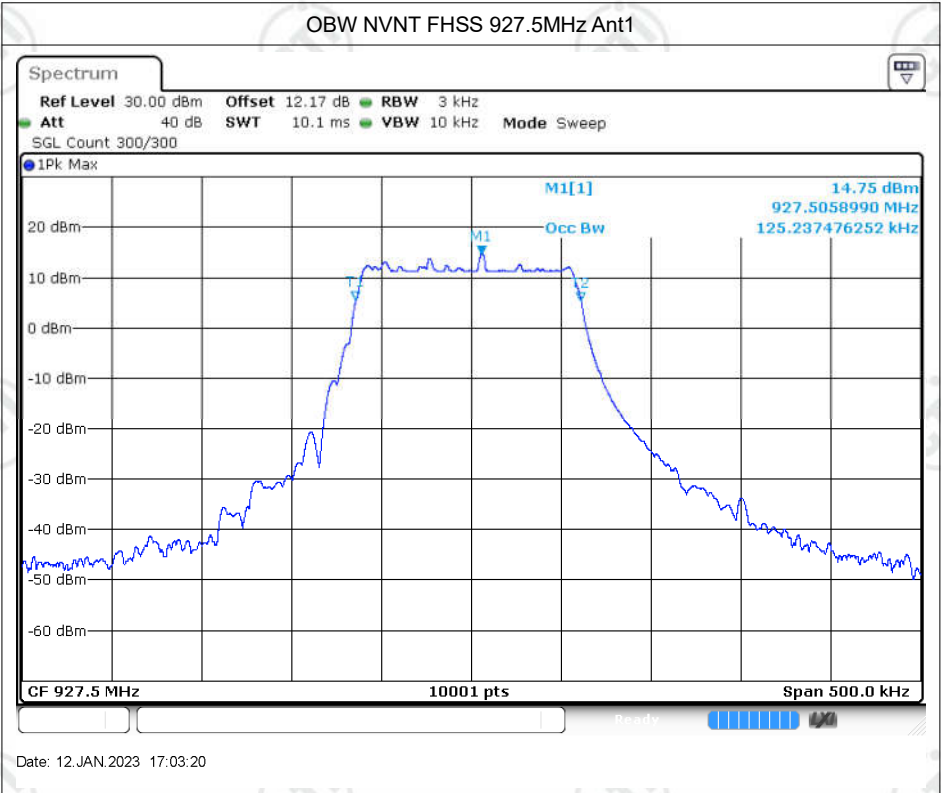




Occupied Channel Bandwidth

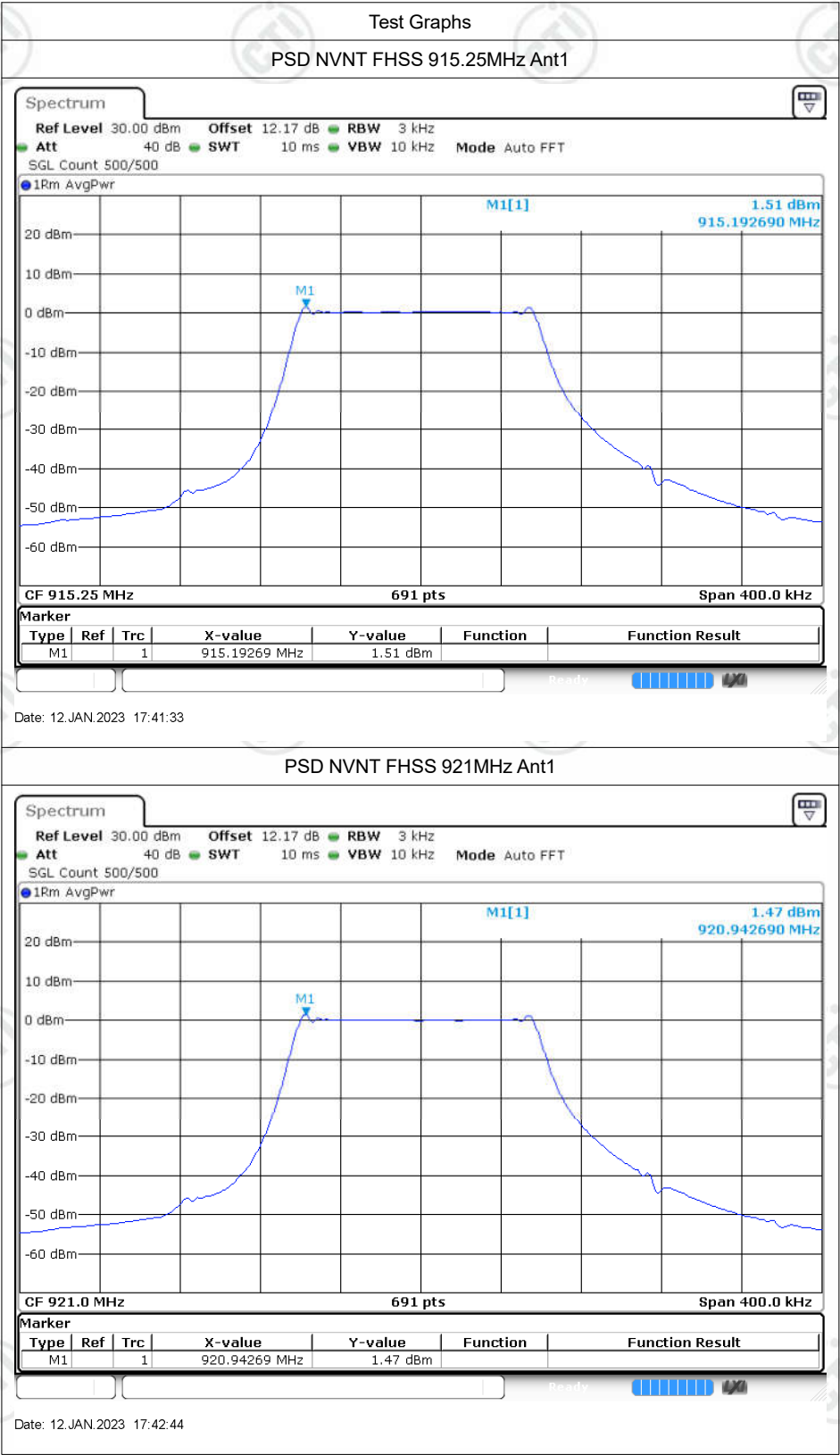
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	FHSS	915.25	Ant1	0.126
NVNT	FHSS	921	Ant1	0.126
NVNT	FHSS	927.5	Ant1	0.125

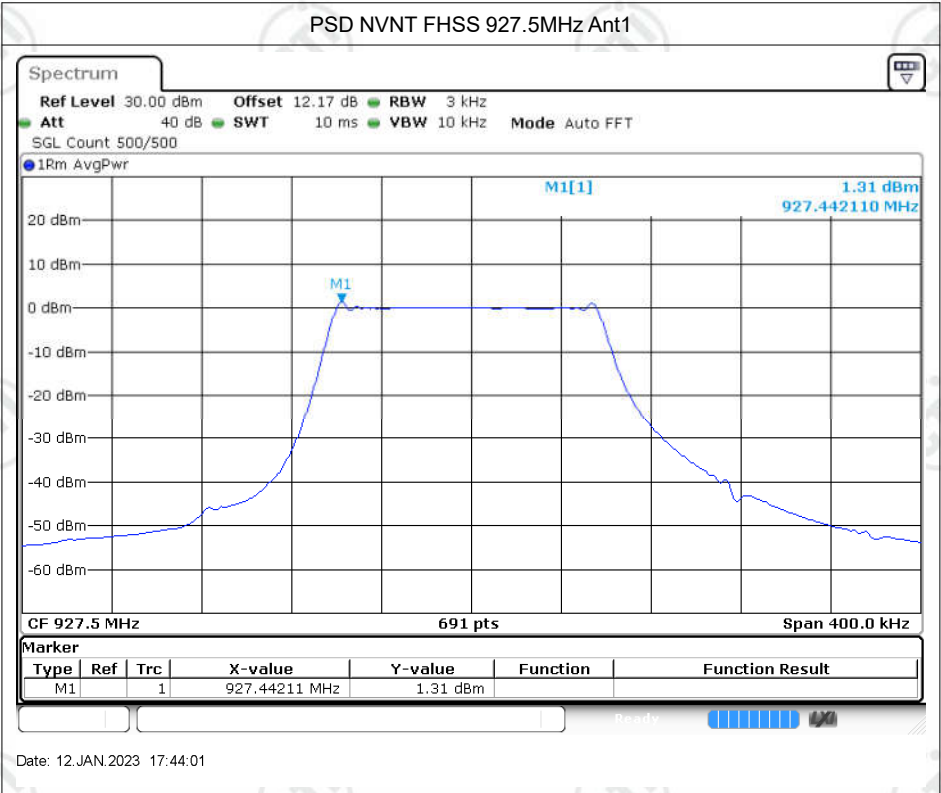




Maximum Power Spectral Density Level

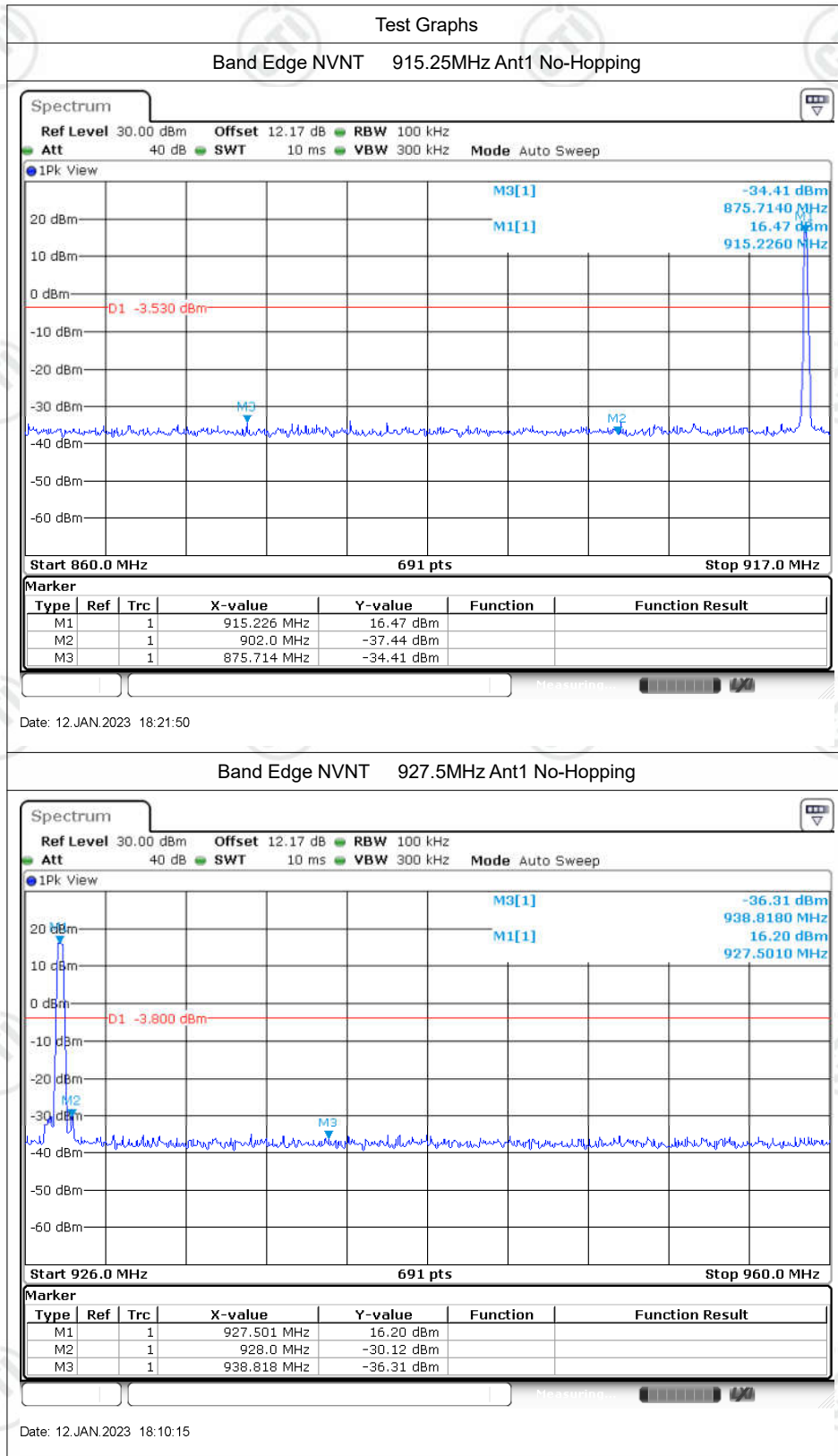
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	FHSS	915.25	Ant1	1.51	8	Pass
NVNT	FHSS	921	Ant1	1.47	8	Pass
NVNT	FHSS	927.5	Ant1	1.31	8	Pass

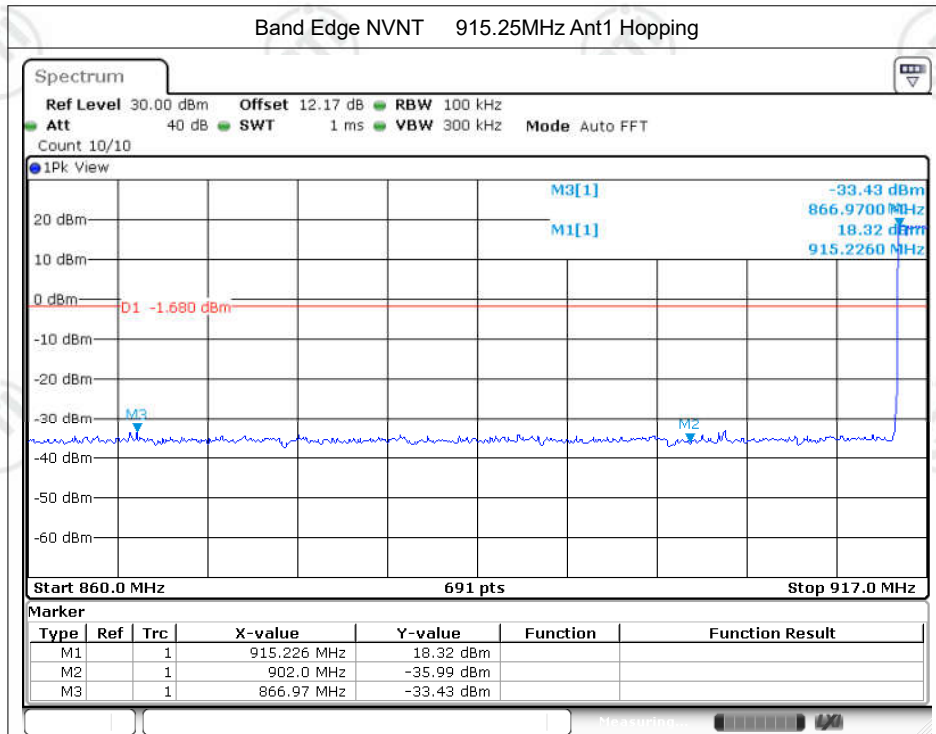




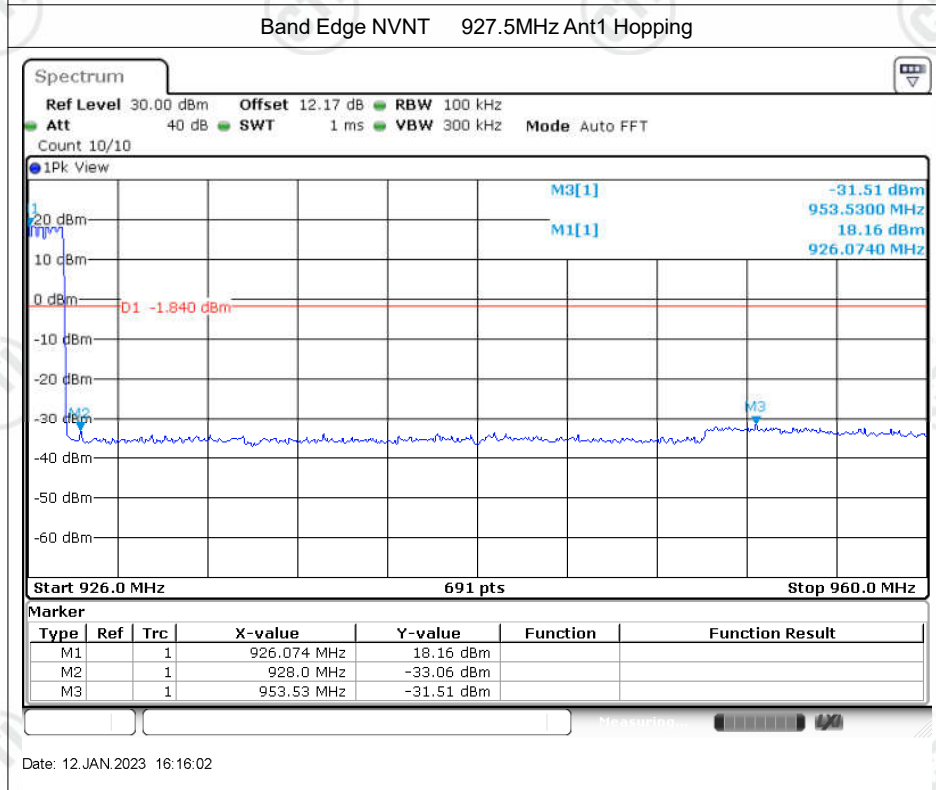
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	FHSS	915.25	Ant1	No-Hopping	-37.44	-3.53	Pass
NVNT	FHSS	927.5	Ant1	No-Hopping	-30.12	-3.80	Pass
NVNT	FHSS	915.25_HOP	Ant1	Hopping	-35.97	-1.6	Pass
NVNT	FHSS	927.5_HOP	Ant1	Hopping	-33.06	-1.84	Pass





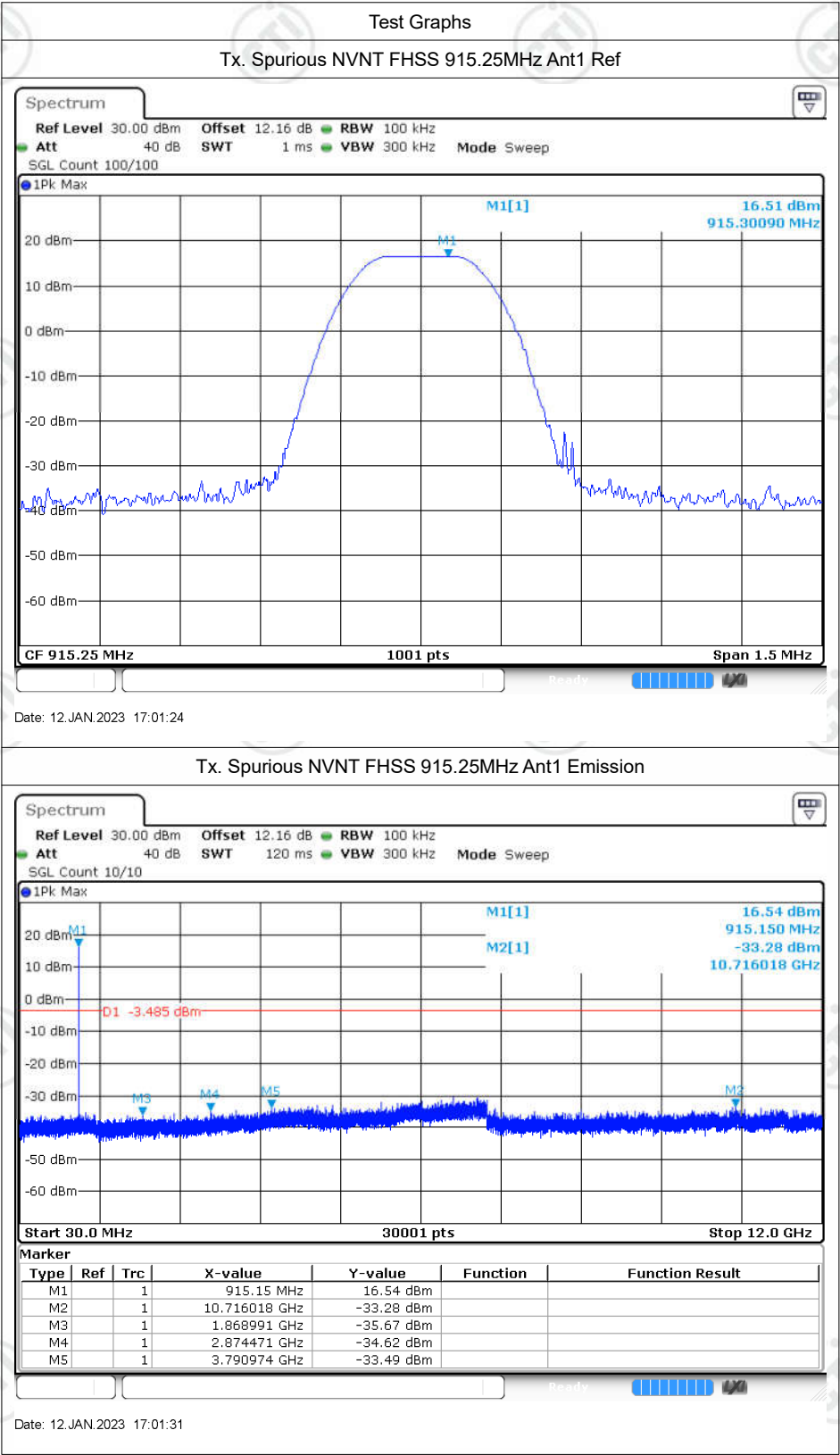
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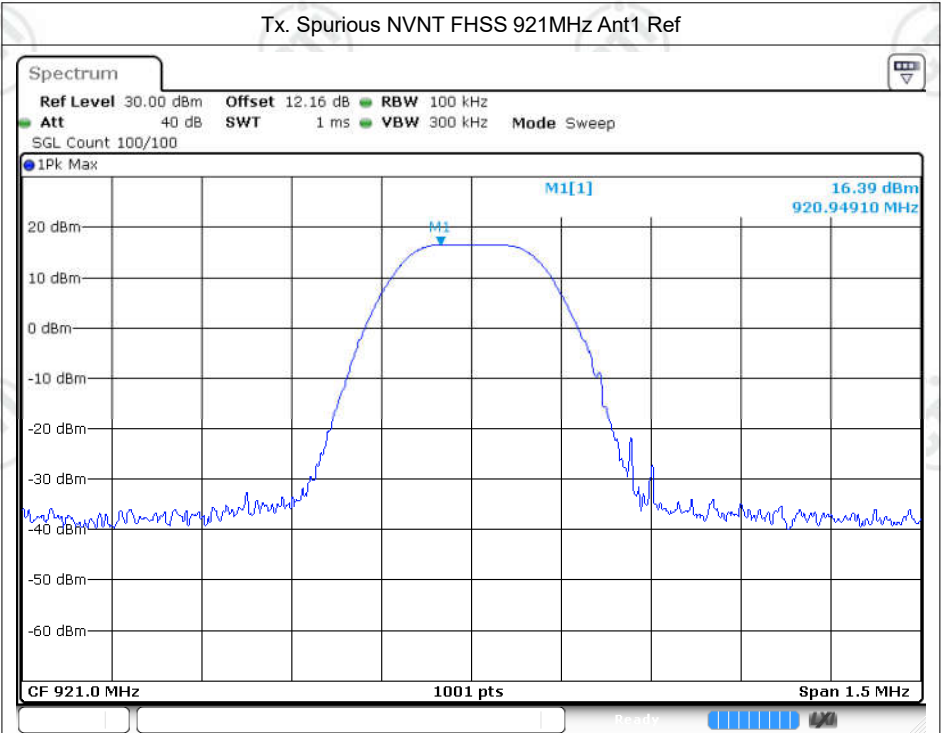


Date: 12.JAN.2023 16:16:02

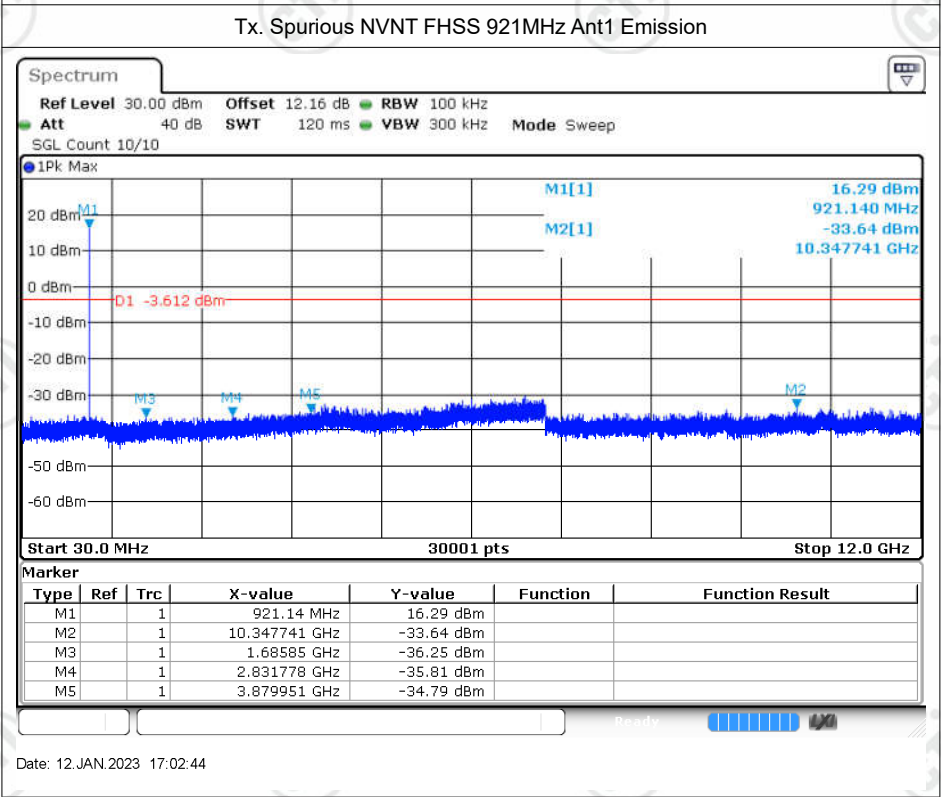
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	FHSS	915.25	Ant1	-49.78	-3.485	Pass
NVNT	FHSS	921	Ant1	-50.02	-3.612	Pass
NVNT	FHSS	927.5	Ant1	-49.69	-3.743	Pass

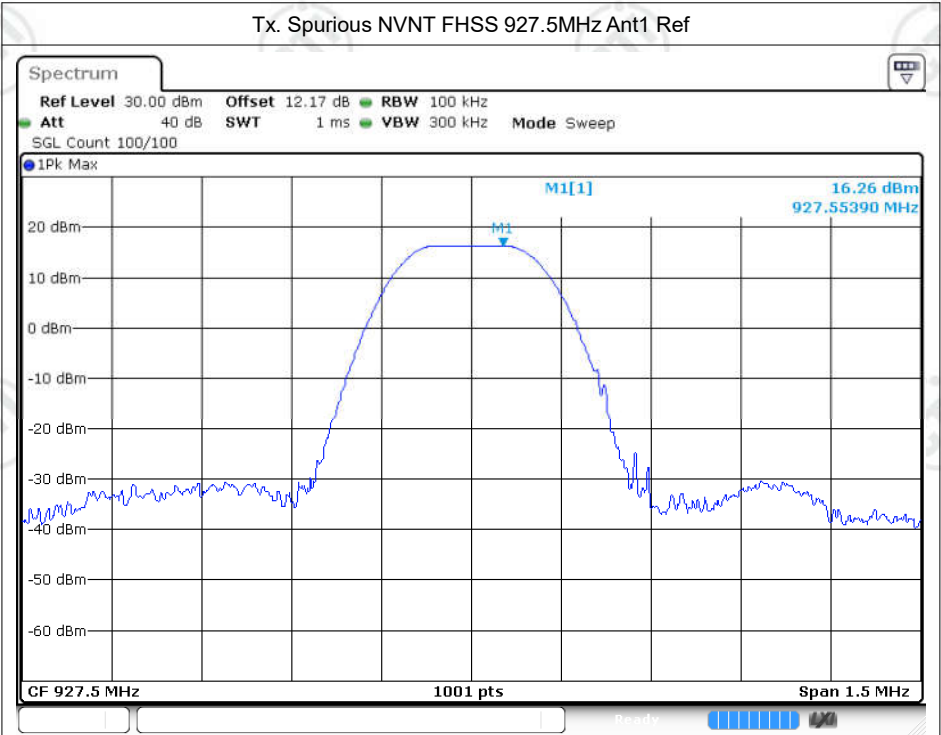




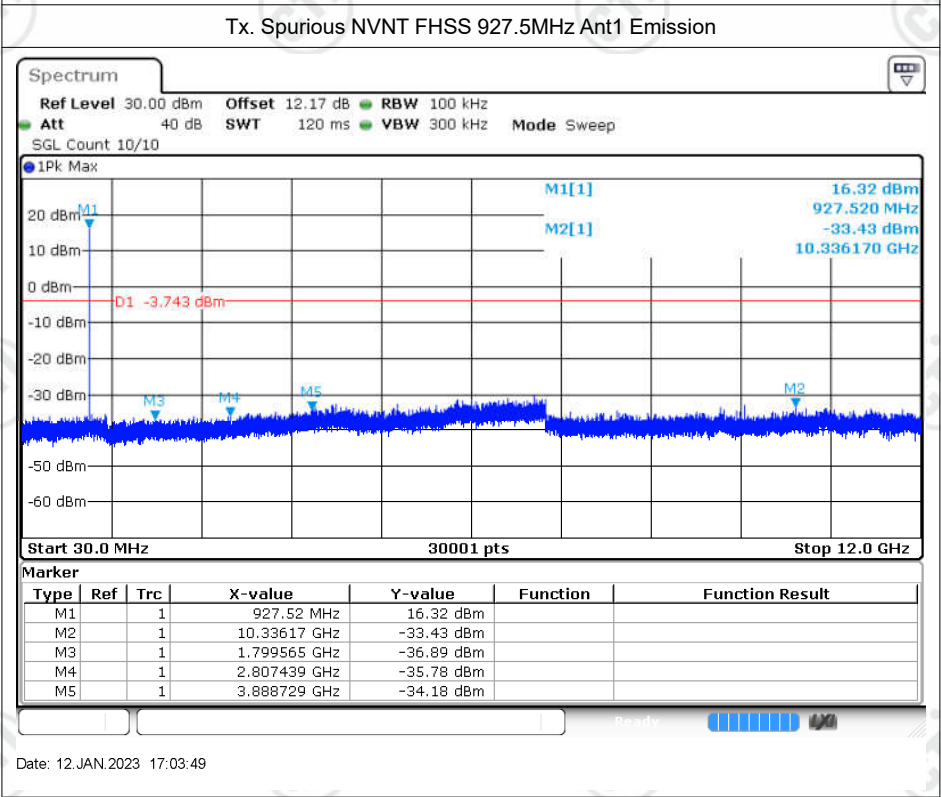
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Date: 12. JAN. 2023 17:02:44



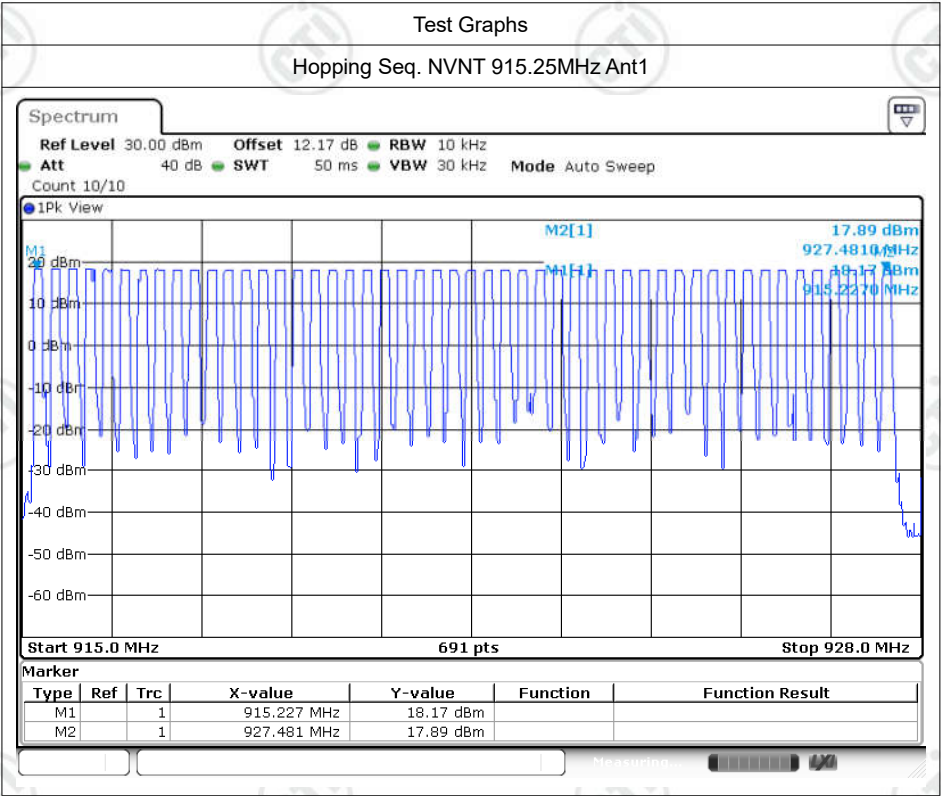
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Date: 12.JAN.2023 17:03:49

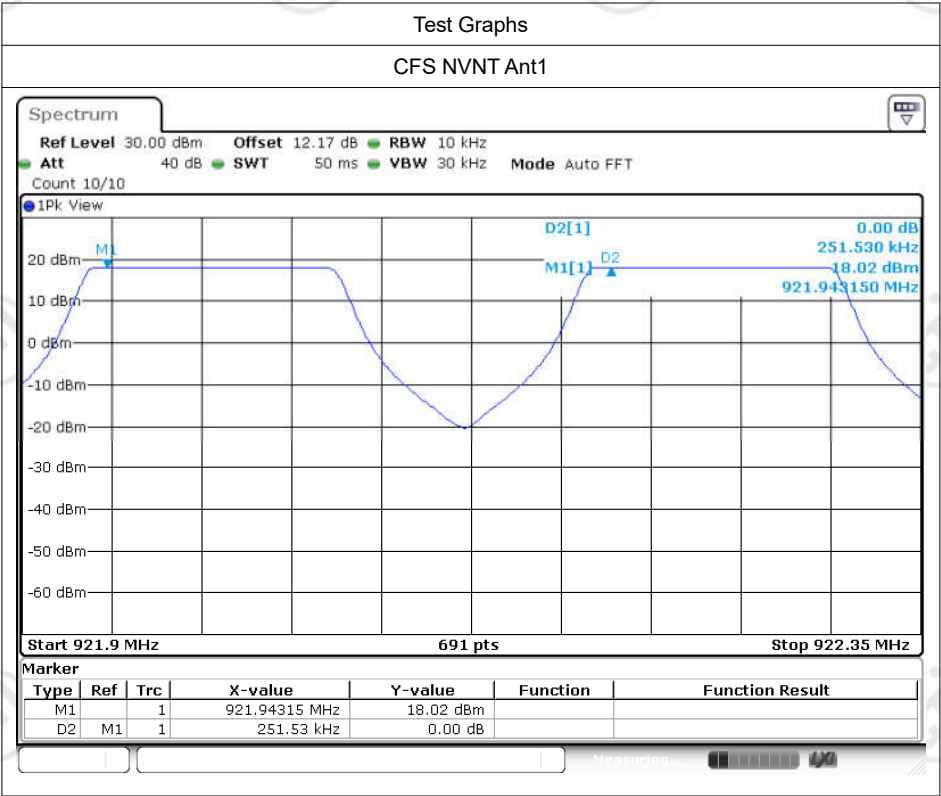
Hopping Sequence

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



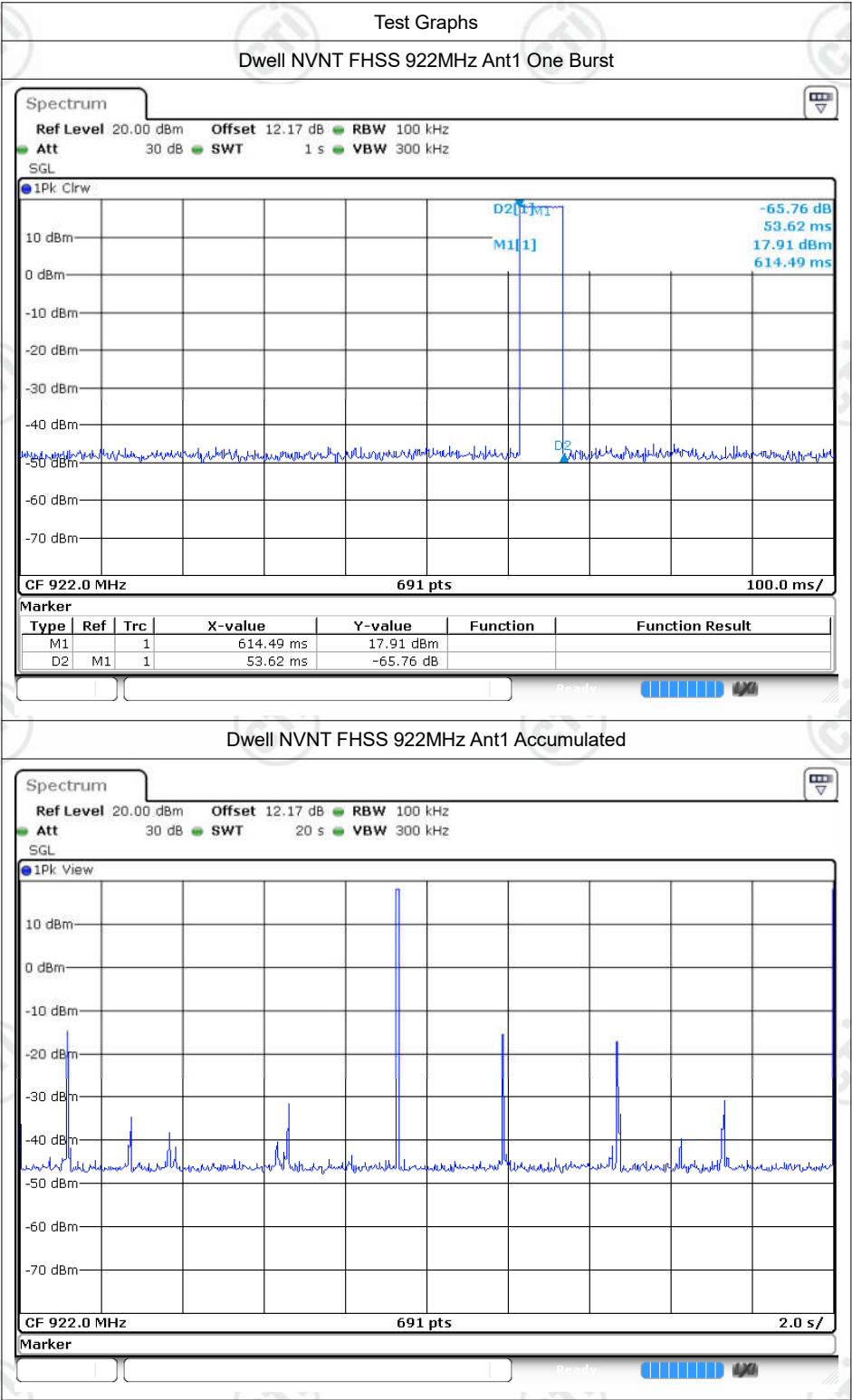
Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	FHSS	Ant1	921.943	922.195	0.252	0.14	Pass



Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	FHSS	922	Ant1	53.62	53.62	1	20000	400	Pass



END OF REPORT