

Appendix: Lora FHSS

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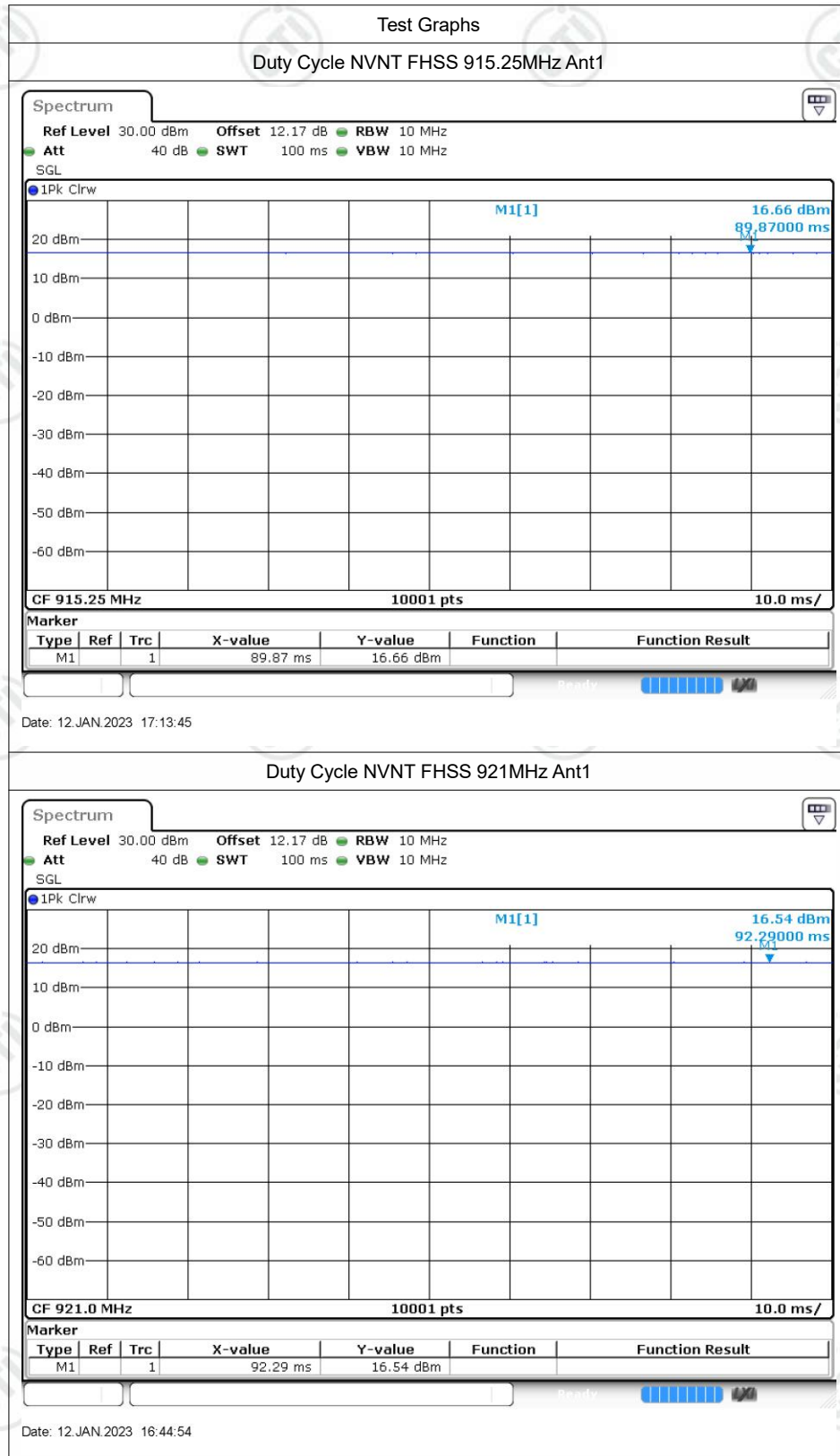
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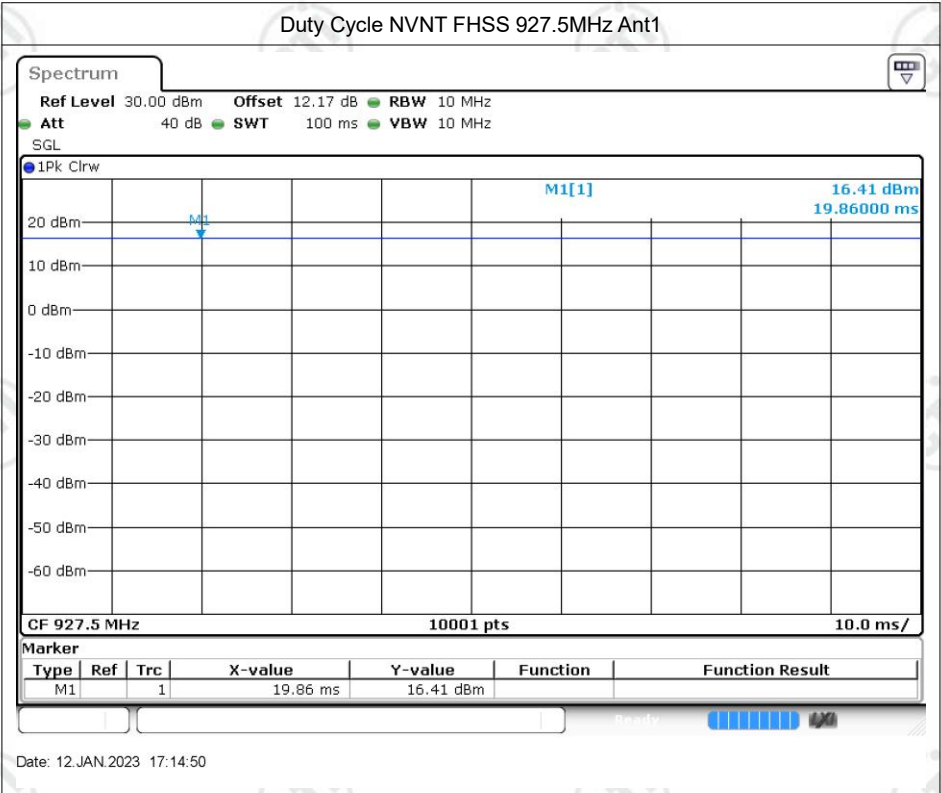
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Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	FHSS	915.25	Ant1	100	0	0
NVNT	FHSS	921.00	Ant1	100	0	0
NVNT	FHSS	927.50	Ant1	100	0	0





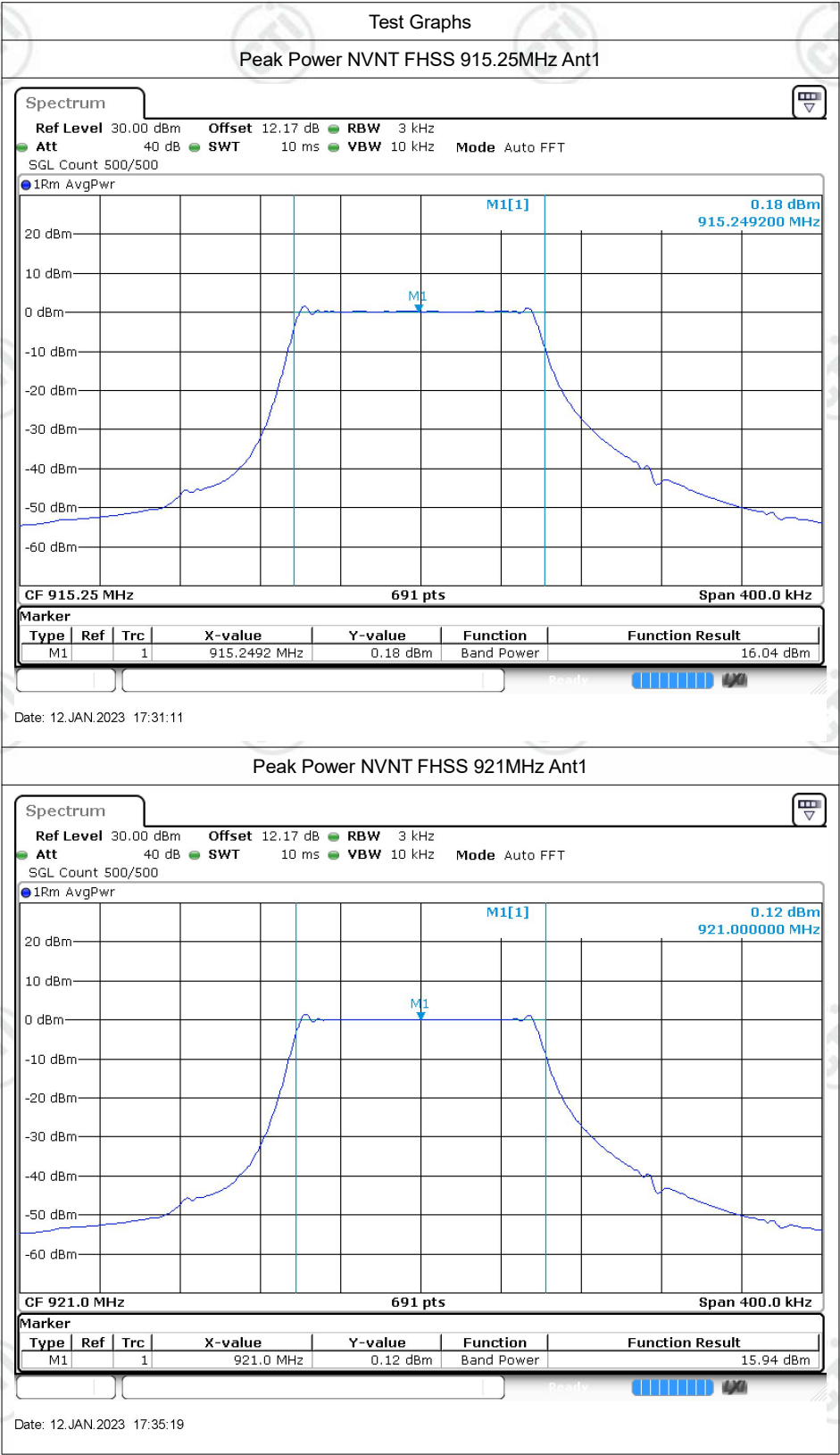
Maximum Peak Conducted Output Power

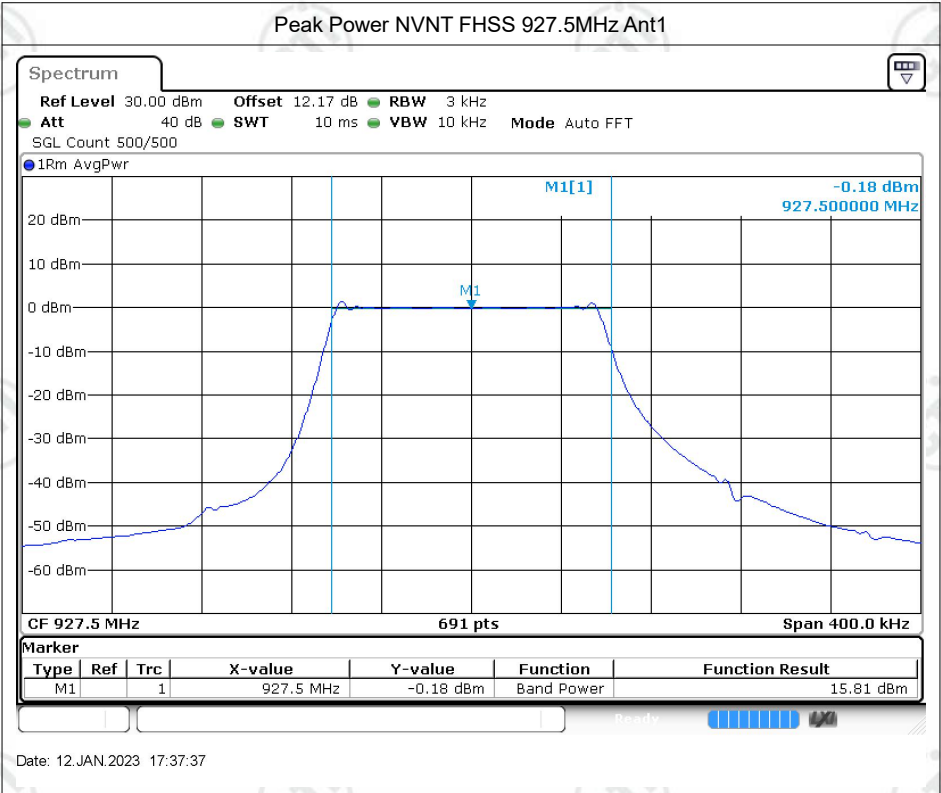
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Antenna gain(dBi)	EIRP(dBm)	EIRP Limit(dBm)	Verdict
NVNT	FHSS	915.25	Ant1	16.04	30	1.10	19.29	36	Pass
NVNT	FHSS	921.00	Ant1	15.94	30	1.10	19.19	36	Pass
NVNT	FHSS	927.50	Ant1	15.81	30	1.10	19.06	36	Pass

Note :

1.ERP=Conducted Power (dBm)+Antenna gain(dBi);

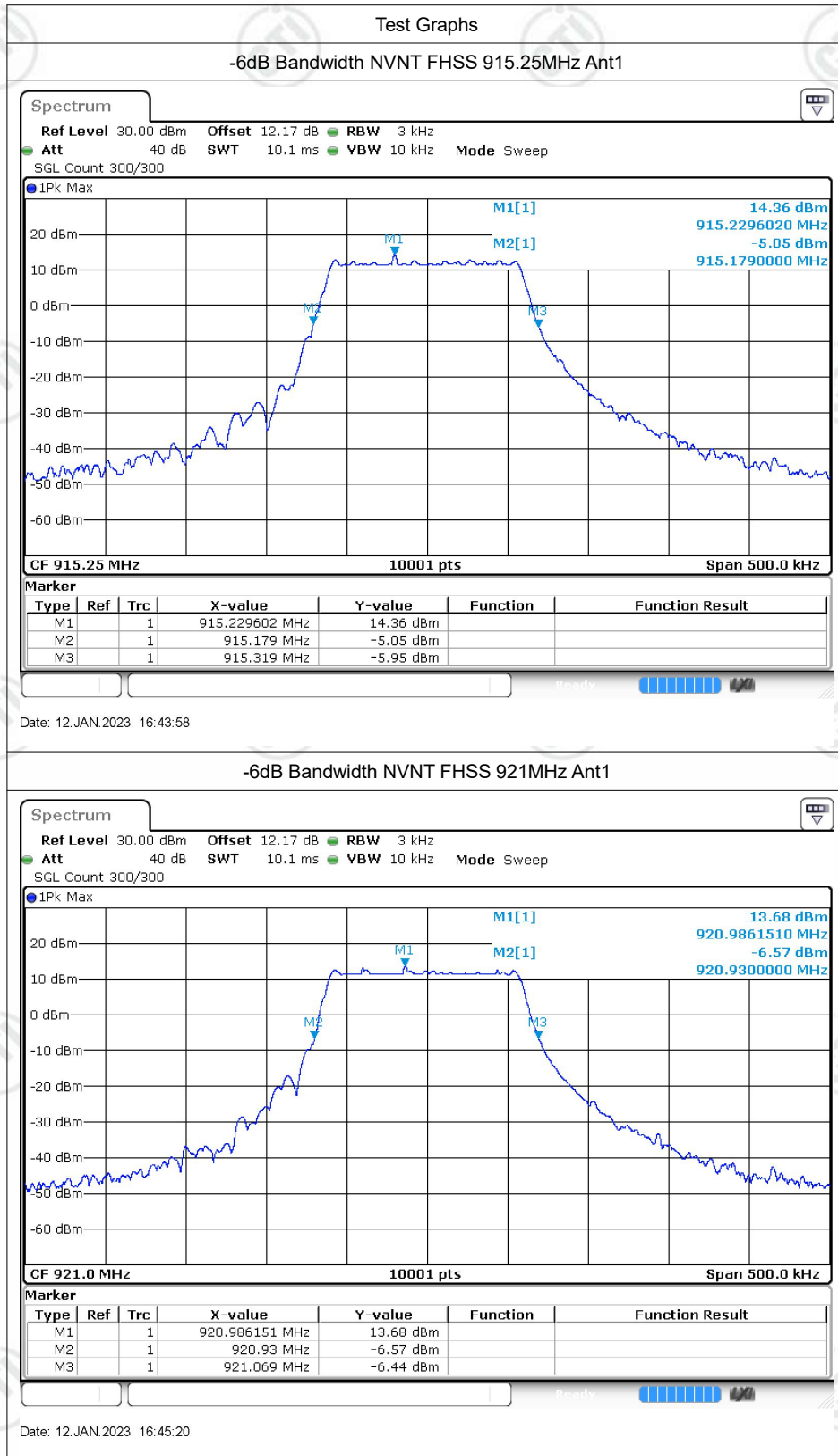
2.EIRP=ERP+2.15;

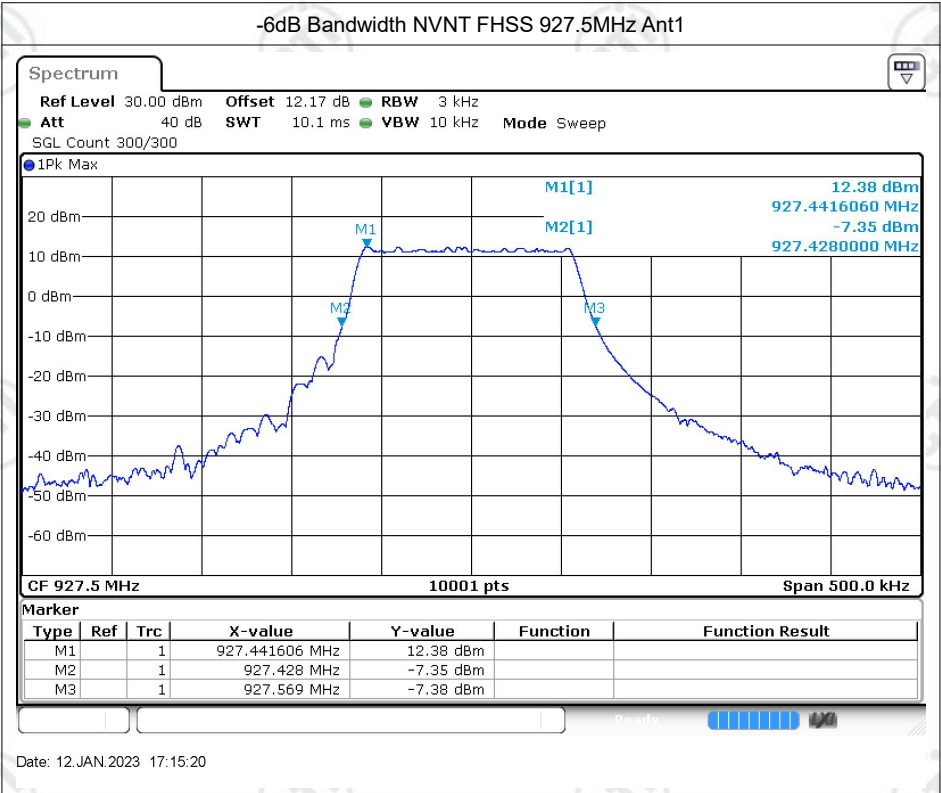




-20dB Bandwidth

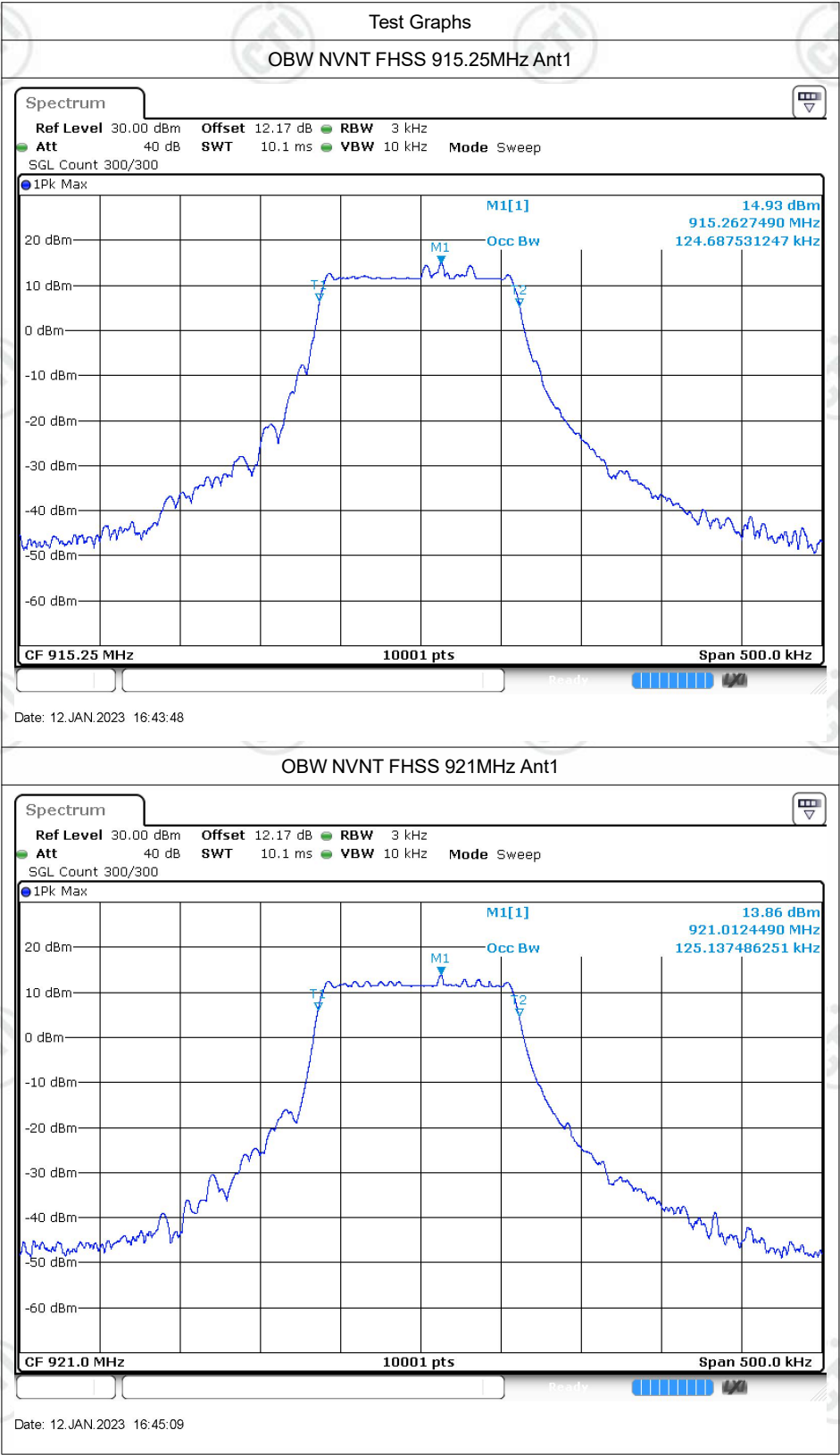
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	FHSS	915.25	Ant1	0.140	---	Pass
NVNT	FHSS	921.00	Ant1	0.139	---	Pass
NVNT	FHSS	927.50	Ant1	0.141	---	Pass

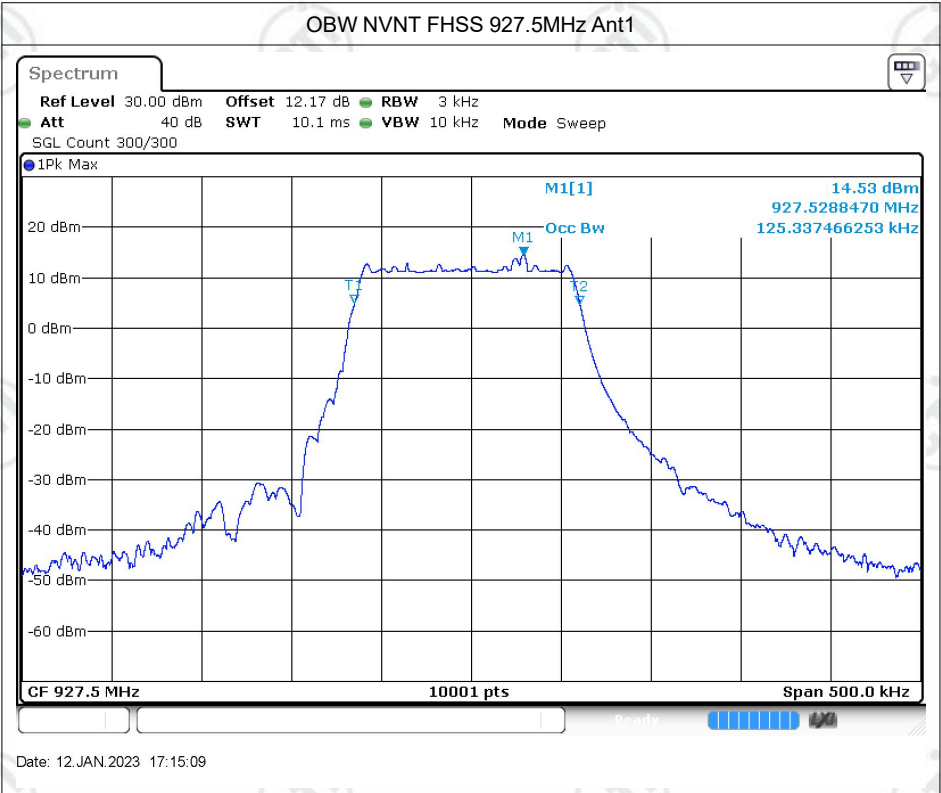




Occupied Channel Bandwidth

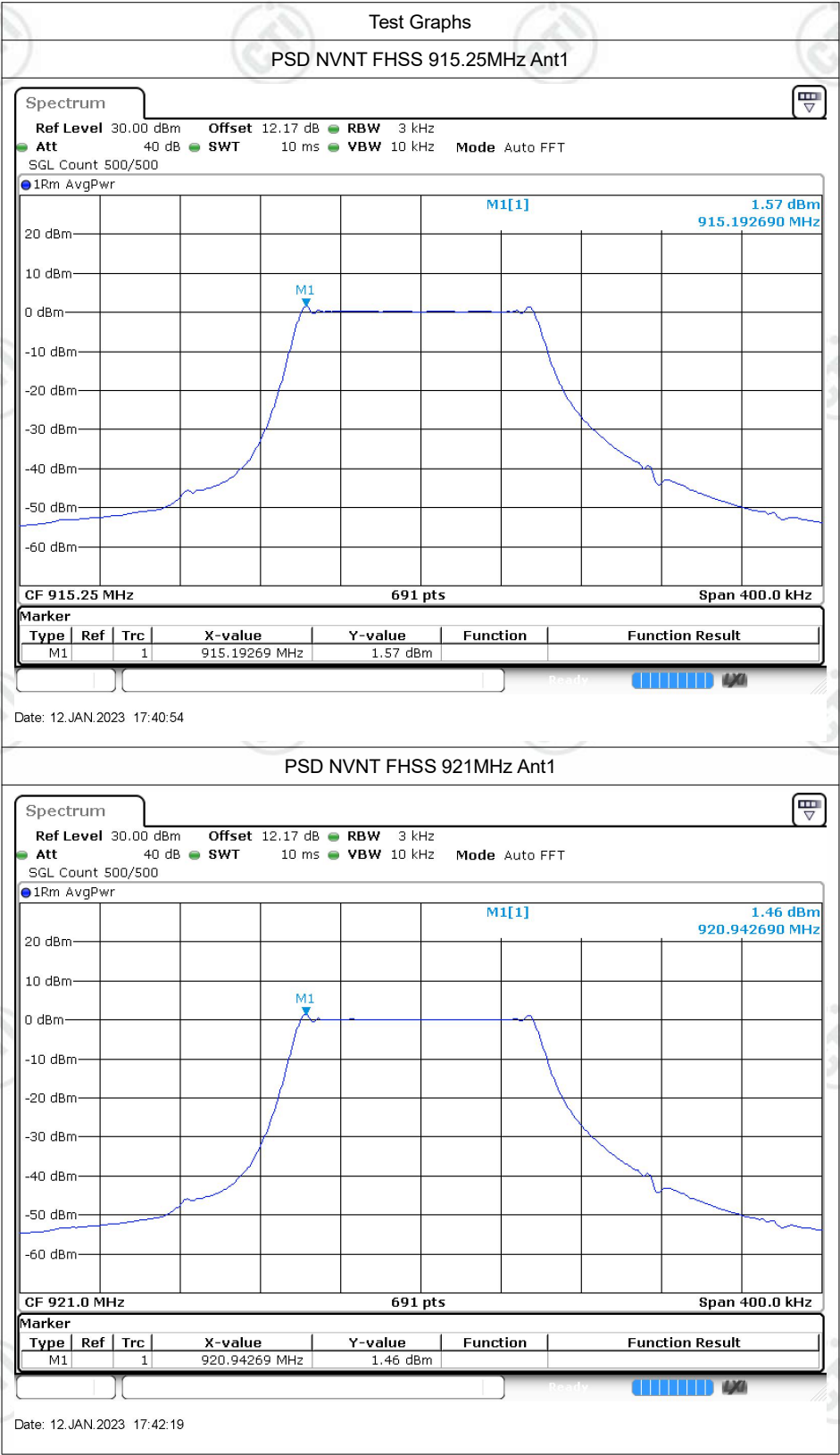
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	FHSS	915.25	Ant1	0.125
NVNT	FHSS	921.00	Ant1	0.125
NVNT	FHSS	927.50	Ant1	0.125

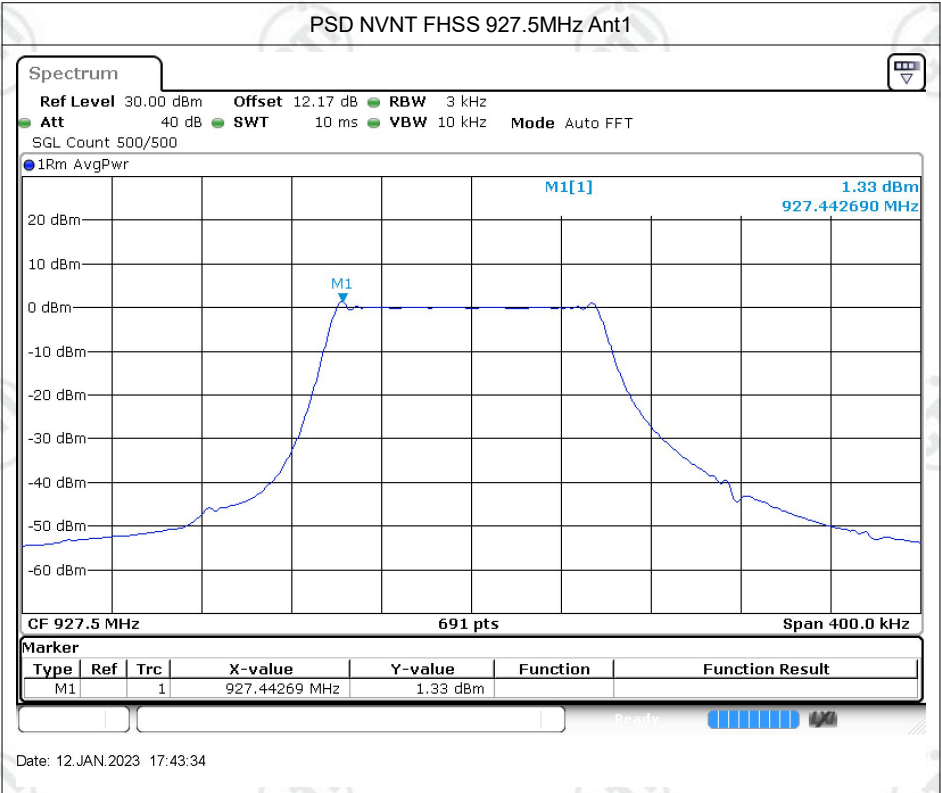




Maximum Power Spectral Density Level

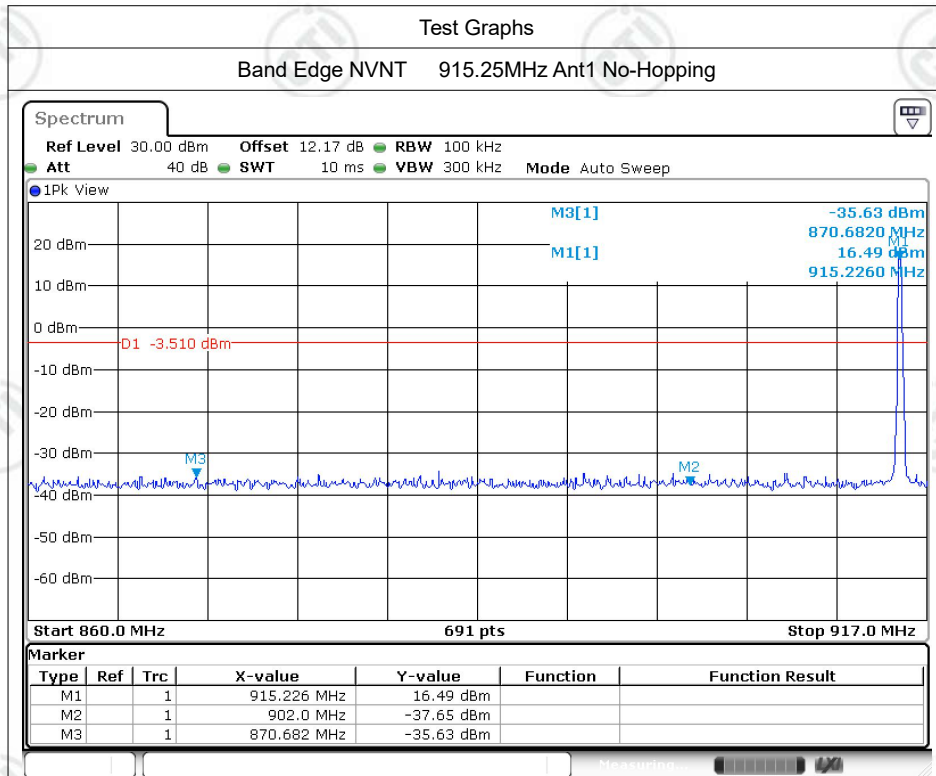
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	FHSS	915.25	Ant1	1.57	8	Pass
NVNT	FHSS	921.00	Ant1	1.46	8	Pass
NVNT	FHSS	927.50	Ant1	1.38	8	Pass



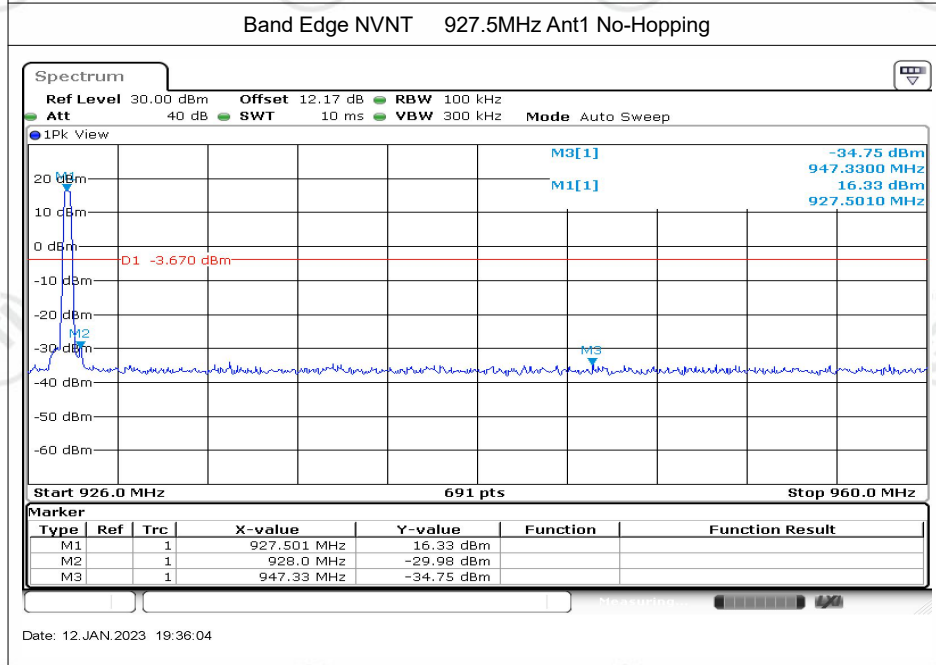


Band Edge

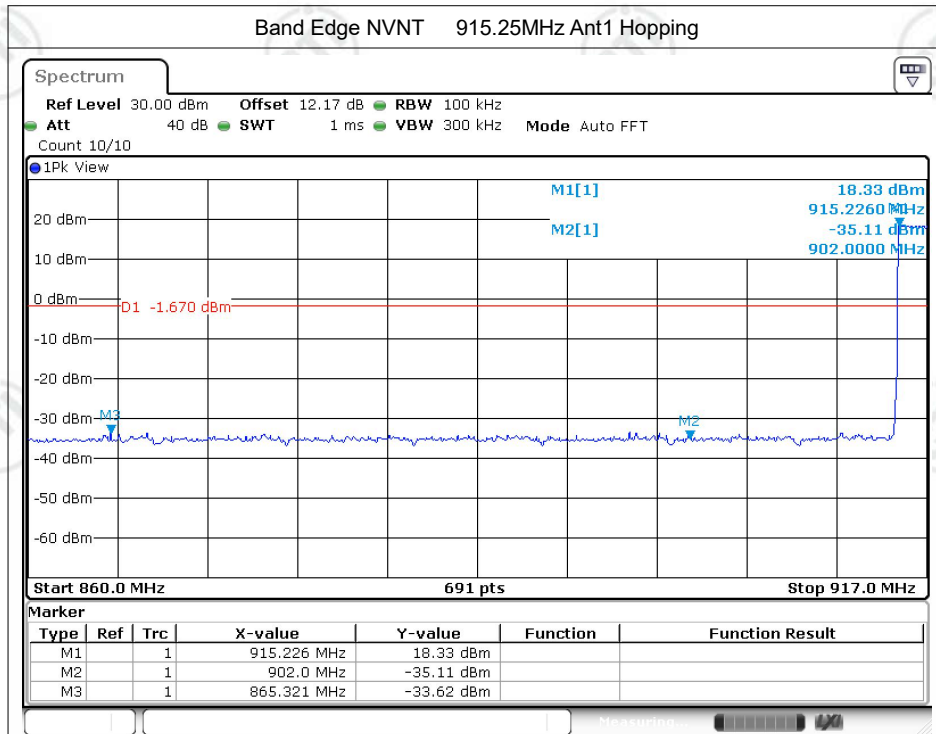
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	FHSS	915.25	Ant1	No-Hopping	-37.65	-3.51	Pass
NVNT	FHSS	927.50	Ant1	No-Hopping	-29.98	-3.67	Pass
NVNT	FHSS	915.25_HOP	Ant1	Hopping	-35.11	-1.67	Pass
NVNT	FHSS	927.5_HOP	Ant1	Hopping	-28.75	-1.85	Pass



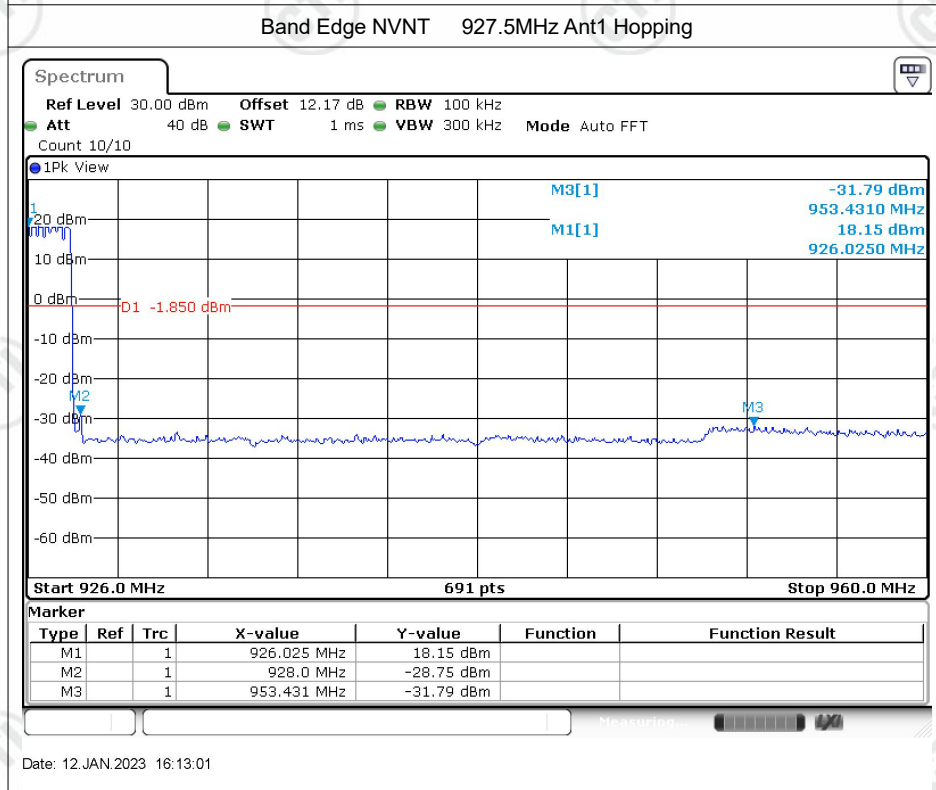
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Date: 12. JAN. 2023 19:36:04



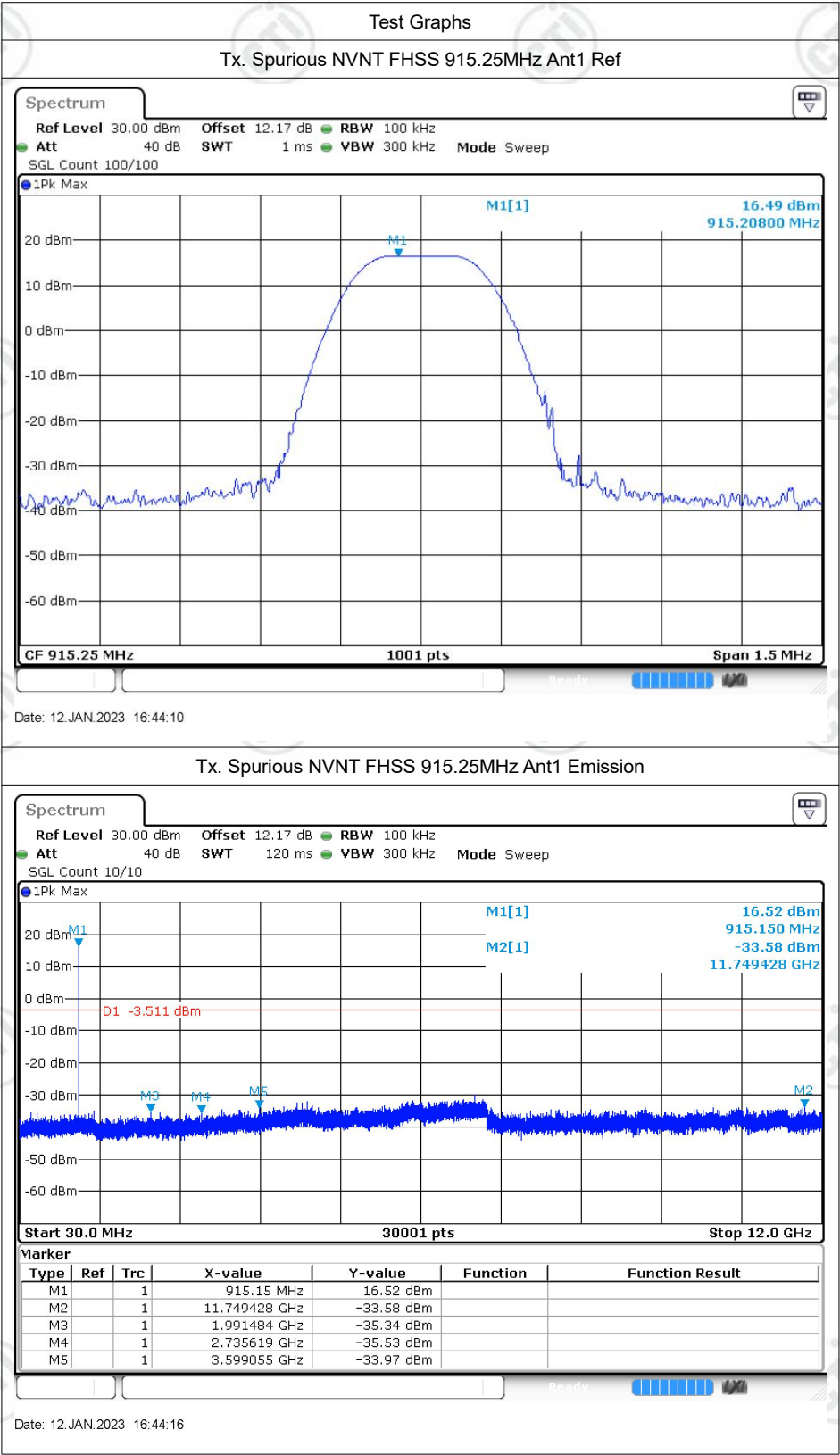
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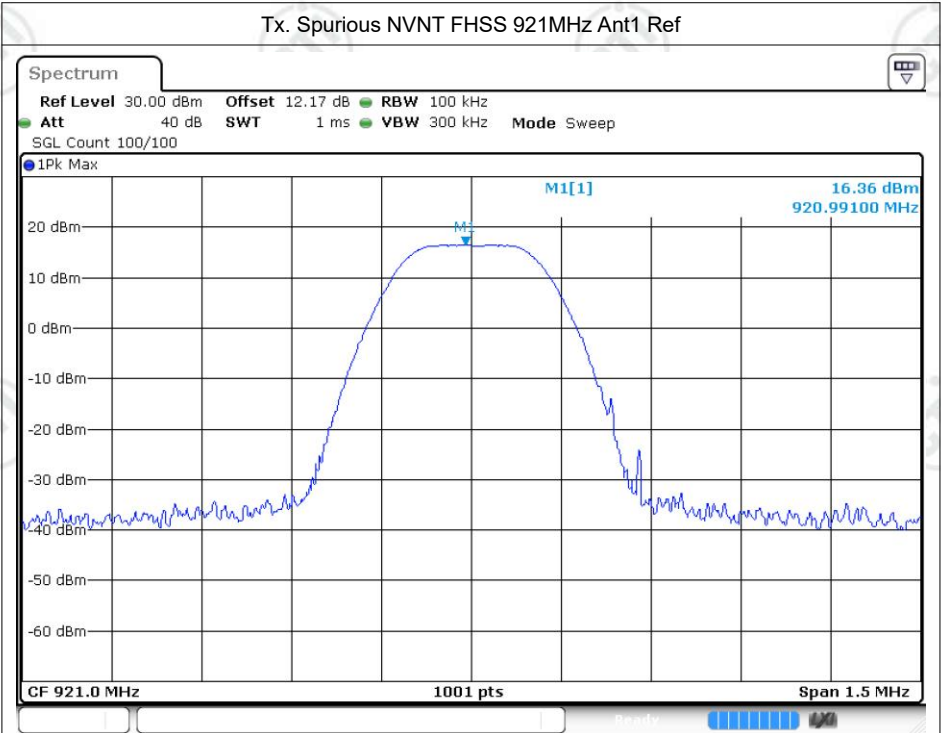


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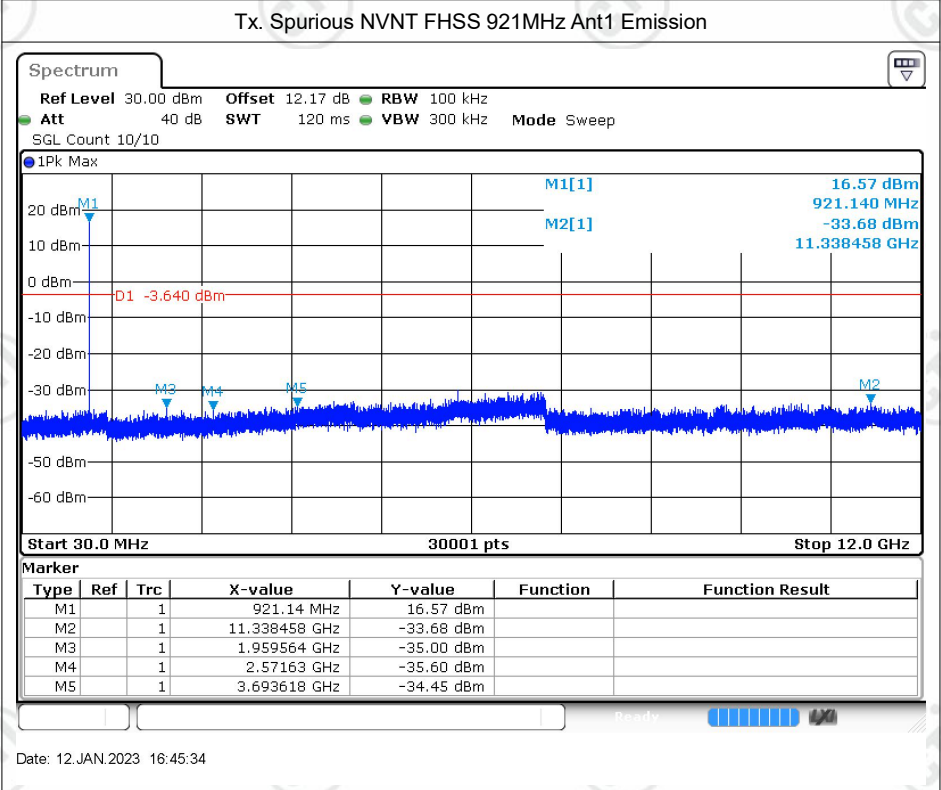
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	FHSS	915.25	Ant1	-50.06	-3.511	Pass
NVNT	FHSS	921.00	Ant1	-50.03	-3.640	Pass
NVNT	FHSS	927.50	Ant1	-49.32	-3.769	Pass

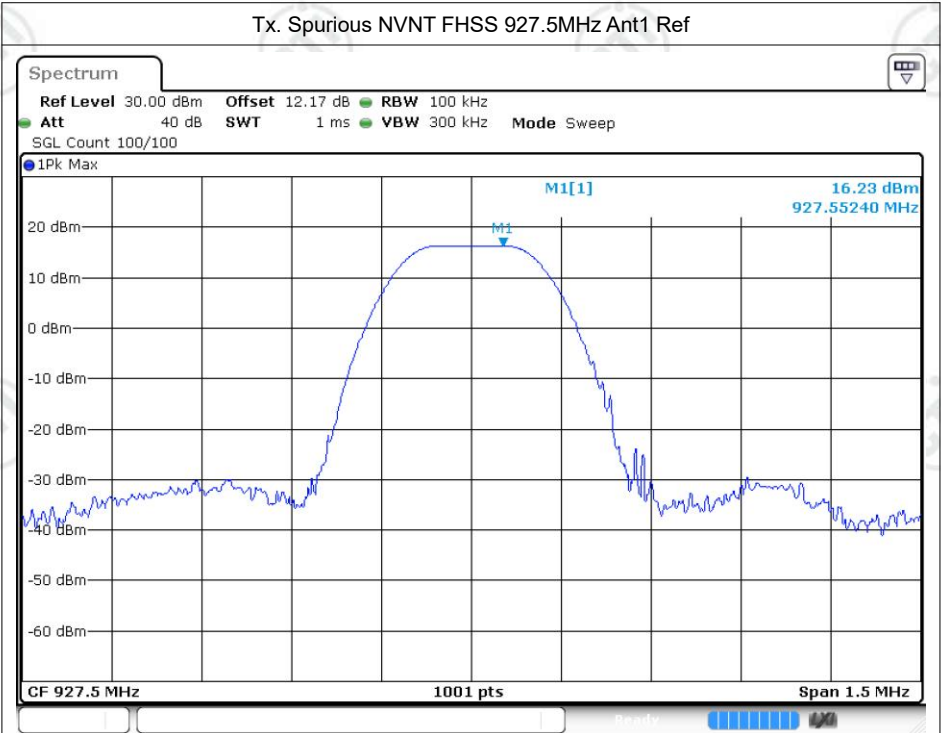




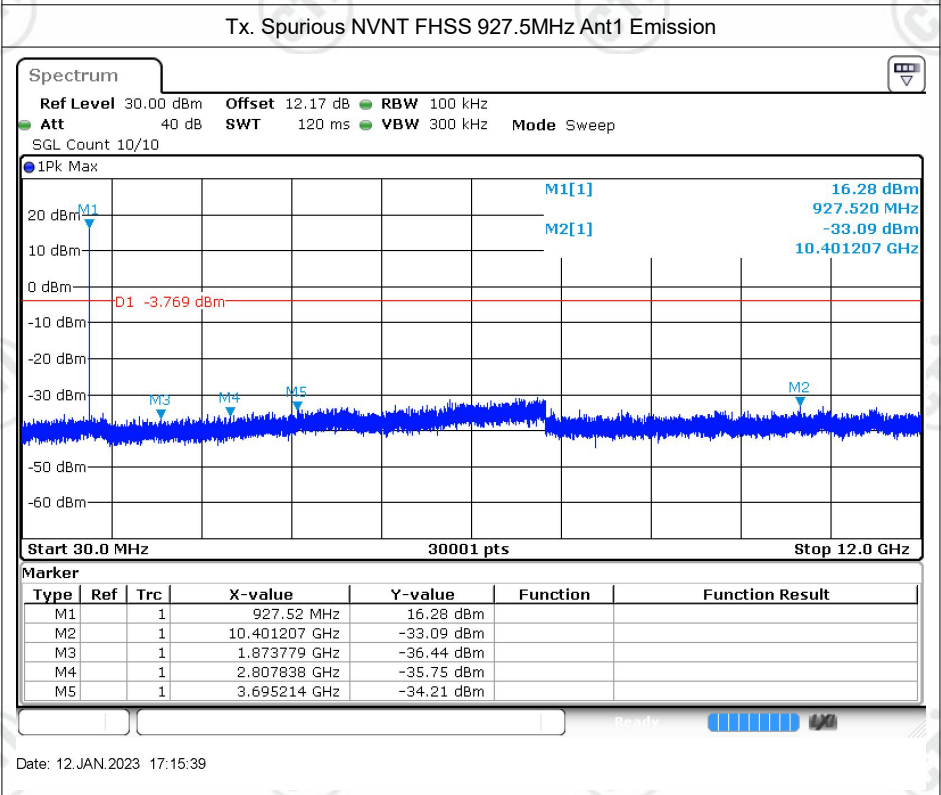
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Date: 12.JAN.2023 16:45:34



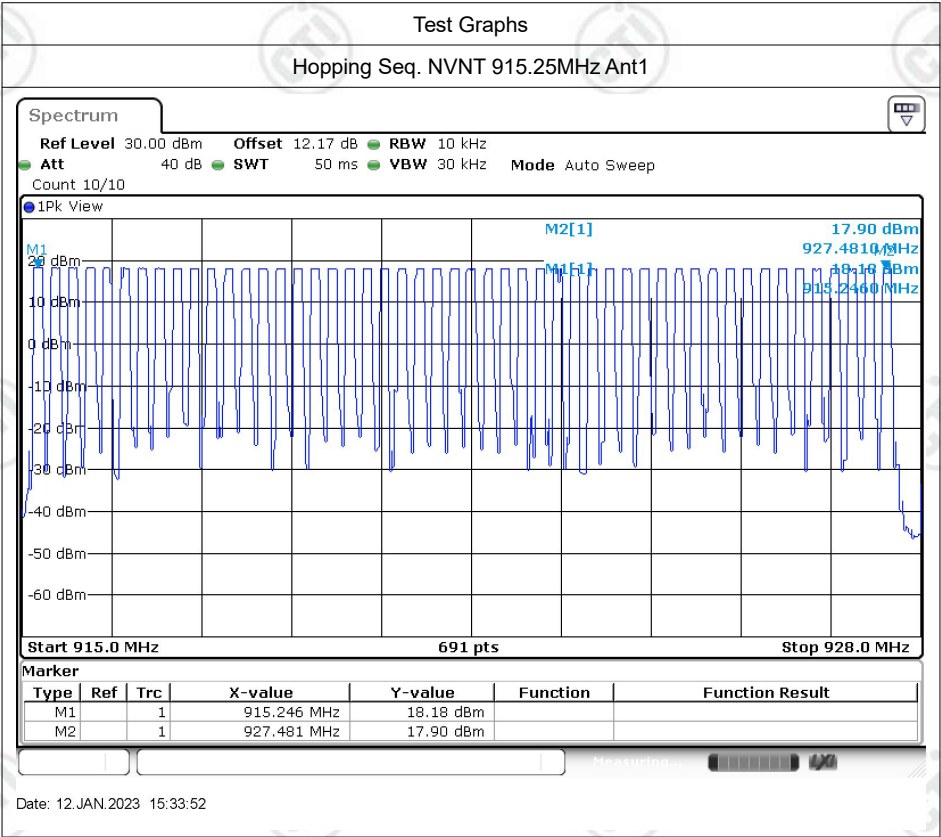
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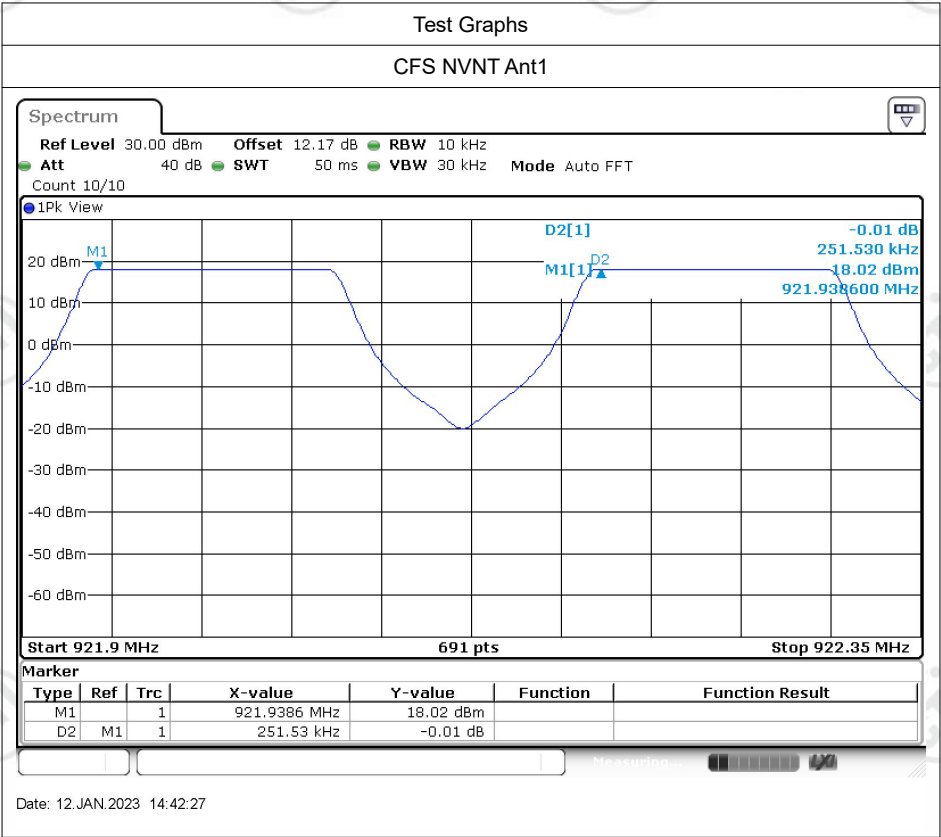
Hopping Sequence

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



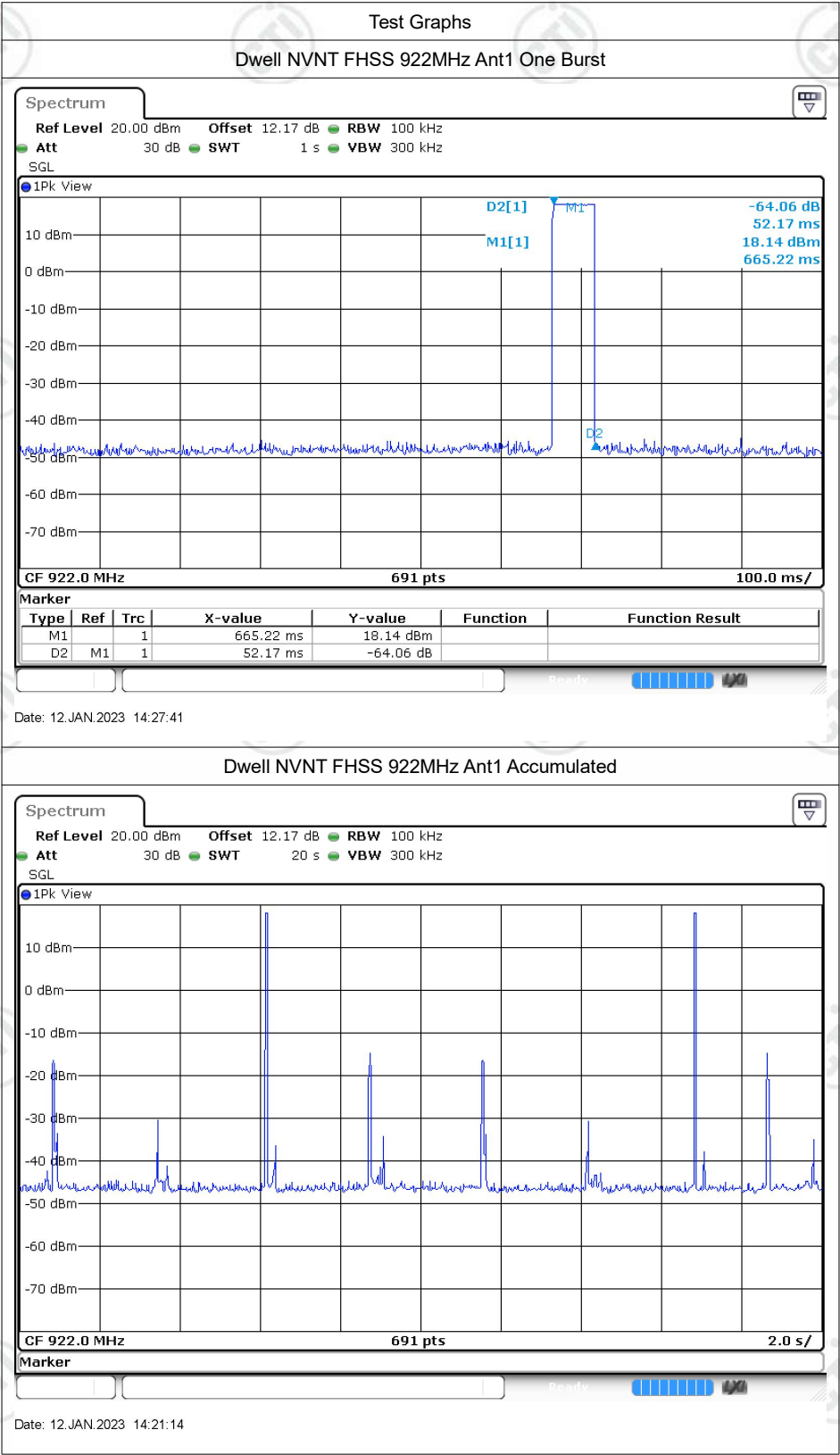
Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	FHSS	Ant1	921.939	922.191	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	922.00	Ant1	52.17	104.34	2	20000	400	Pass



END OF REPORT