

Appendix for 15.247

1. Duty Cycle

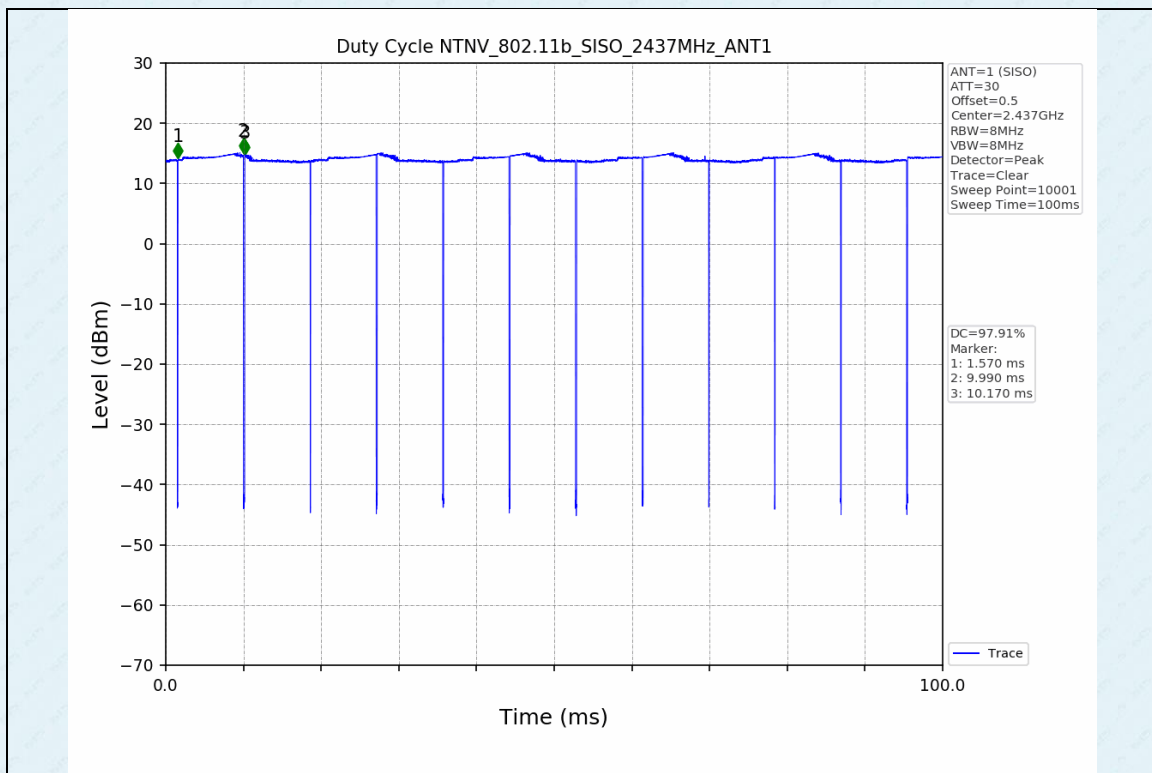
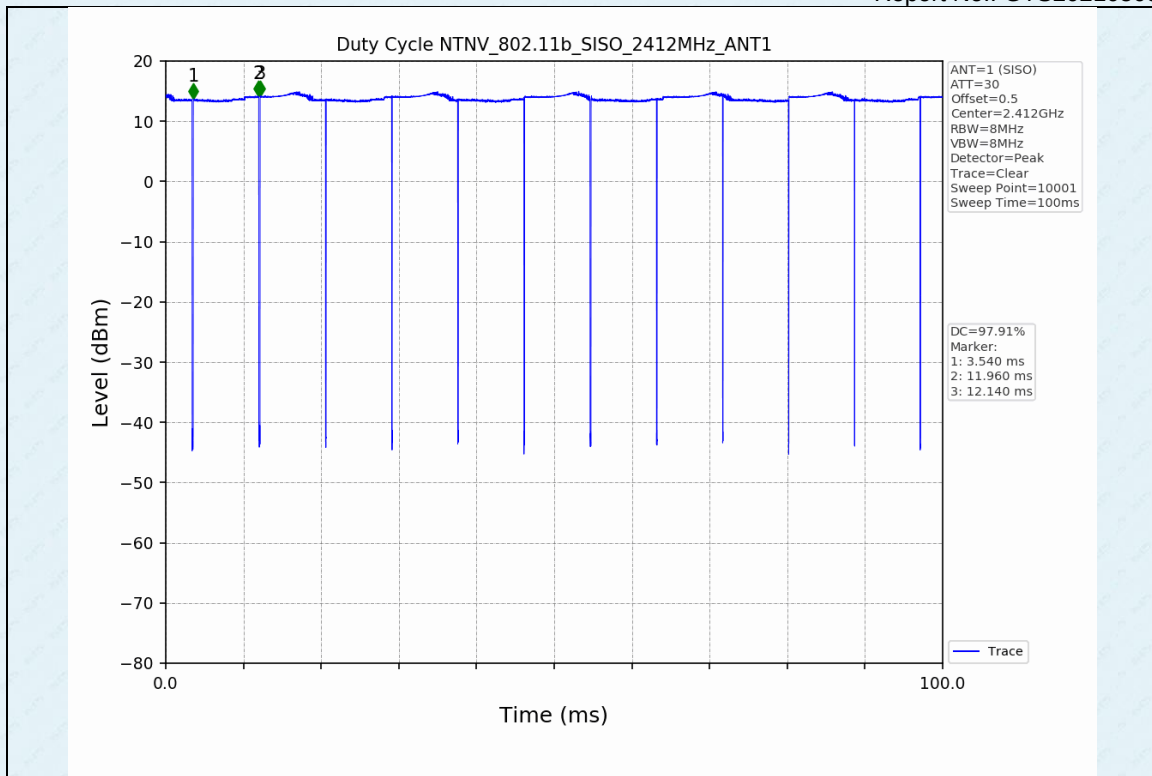
1.1 Test Result

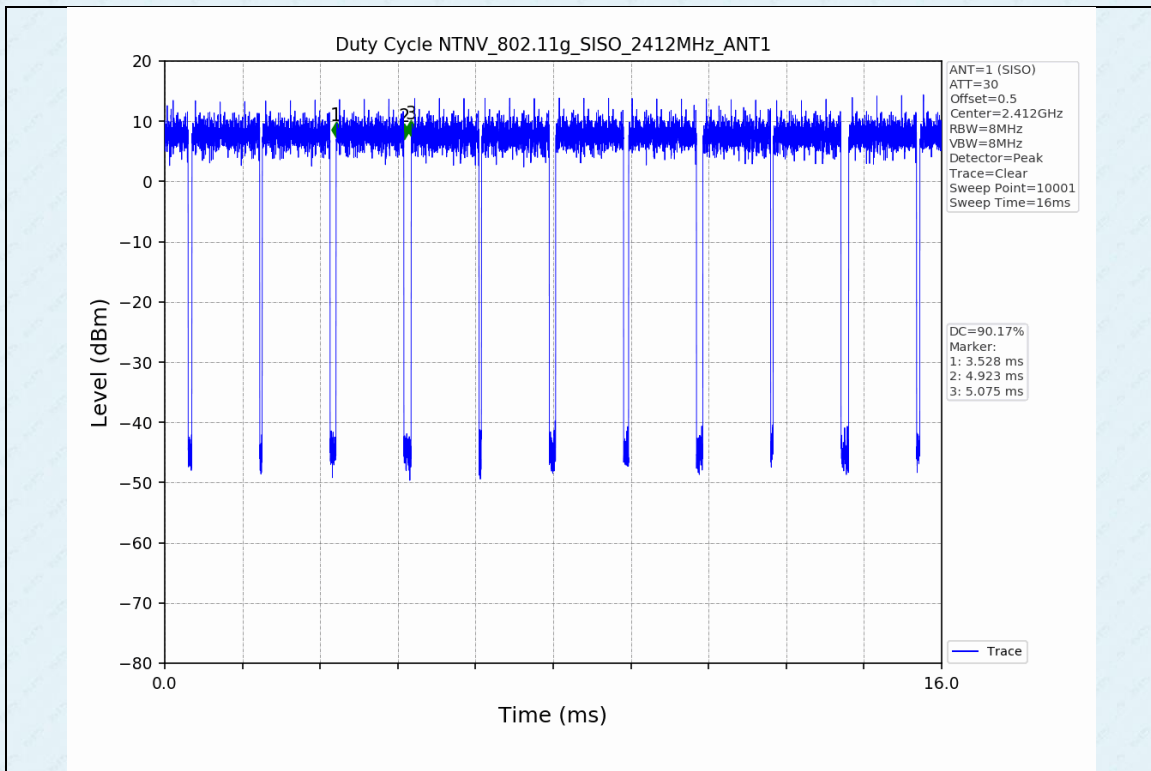
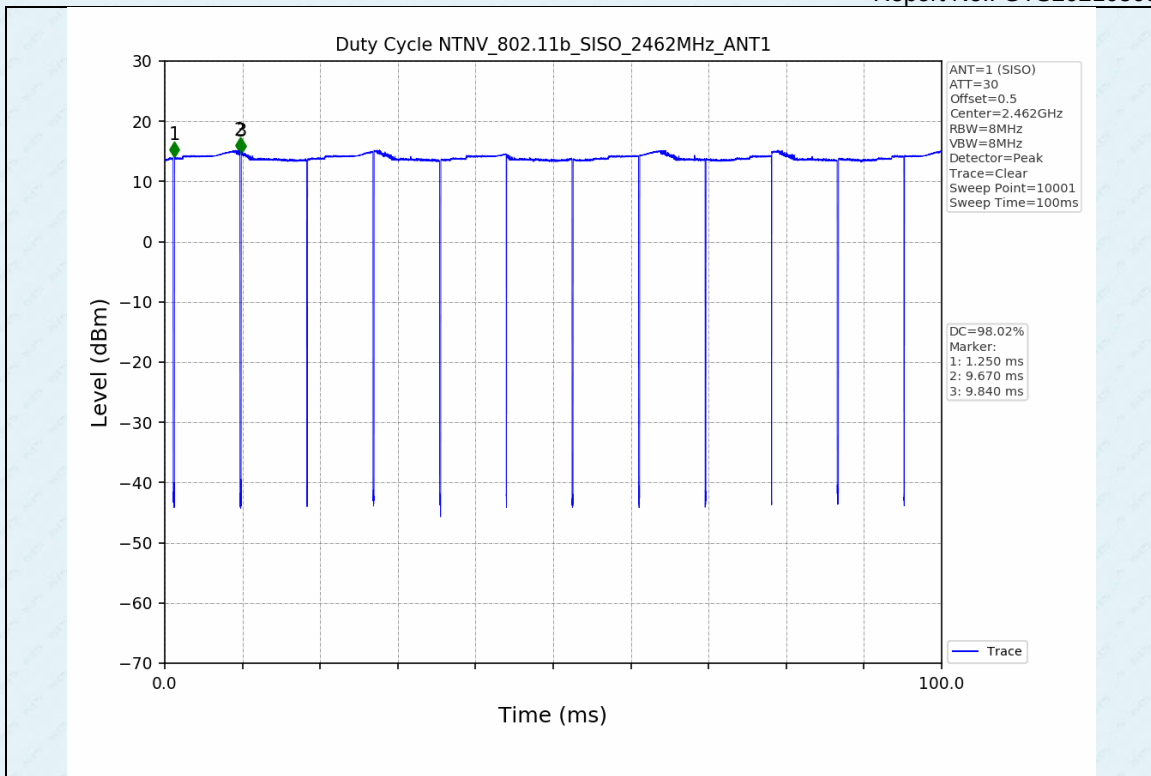
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.420	8.600	97.91	0.09
	2437	SISO	1	8.420	8.600	97.91	0.09
	2462	SISO	1	8.420	8.590	98.02	0.09
802.11g	2412	SISO	1	1.395	1.547	90.17	0.45
	2437	SISO	1	1.368	1.552	88.14	0.55
	2462	SISO	1	1.395	1.574	88.63	0.52
802.11n(HT20)	2412	SISO	1	1.280	2.043	62.65	2.03
	2437	SISO	1	1.278	1.462	87.41	0.58
	2462	SISO	1	1.280	1.841	69.53	1.58
802.11n(HT40)	2422	SISO	1	0.647	0.790	81.90	0.87
	2437	SISO	1	0.624	0.796	78.39	1.06
	2452	SISO	1	0.624	0.805	77.52	1.11

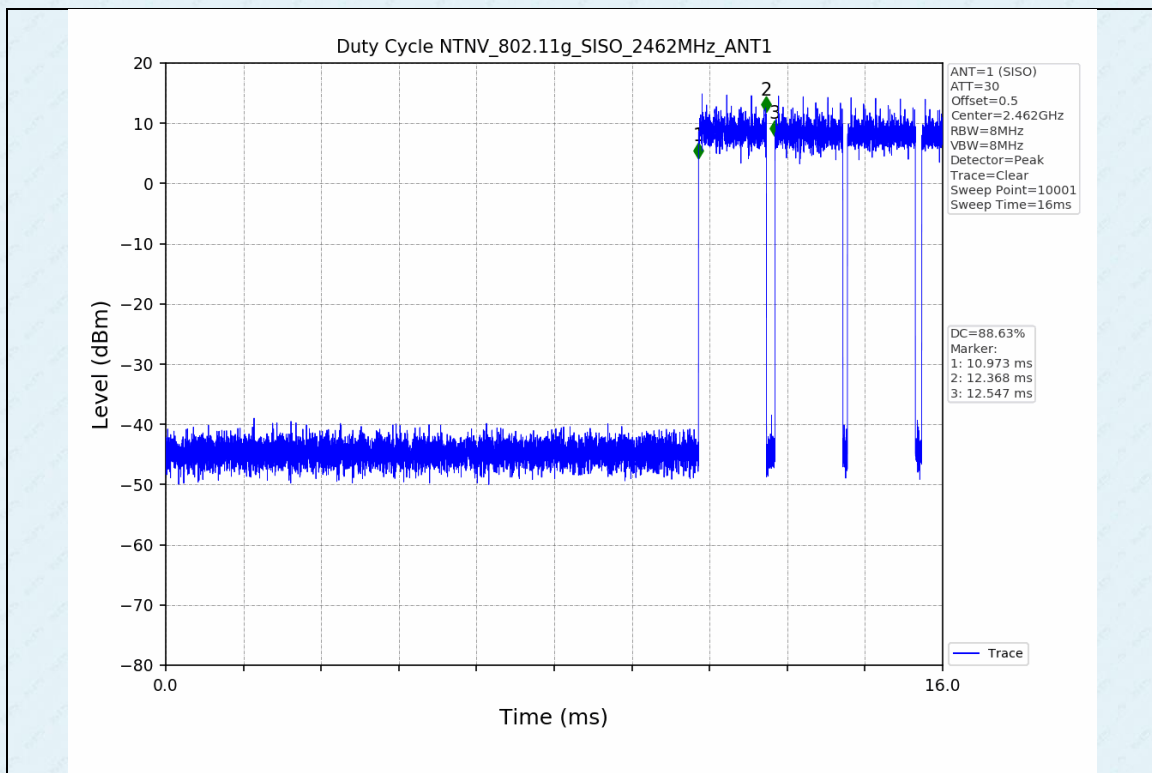
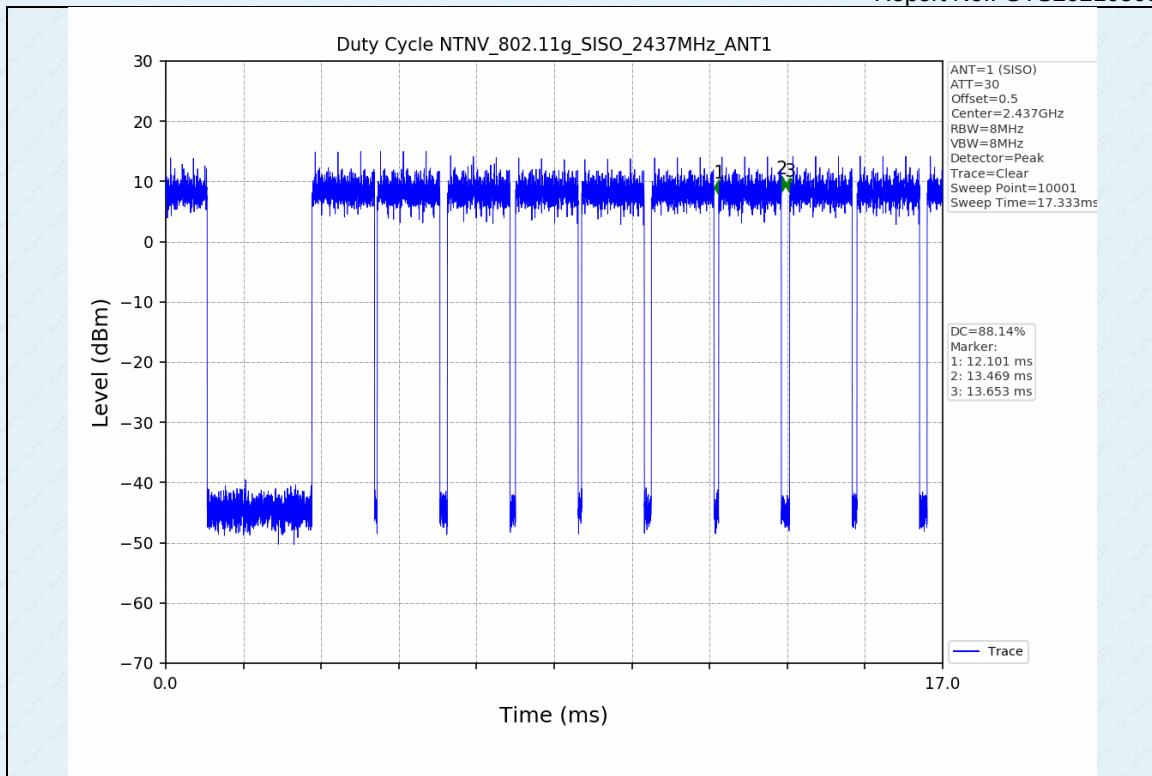
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	2	8.410	8.580	98.02	0.09
	2437	SISO	2	8.410	8.570	98.13	0.08
	2462	SISO	2	8.420	8.600	97.91	0.09
802.11g	2412	SISO	2	1.369	1.552	88.21	0.54
	2437	SISO	2	1.395	1.582	88.18	0.55
	2462	SISO	2	1.369	1.552	88.21	0.54
802.11n(HT20)	2412	SISO	2	1.309	1.477	88.63	0.52
	2437	SISO	2	1.279	1.462	87.48	0.58
	2462	SISO	2	1.280	1.463	87.49	0.58
802.11n(HT40)	2422	SISO	2	0.648	0.835	77.60	1.10
	2437	SISO	2	0.648	0.808	80.20	0.96
	2452	SISO	2	0.648	0.791	81.92	0.87

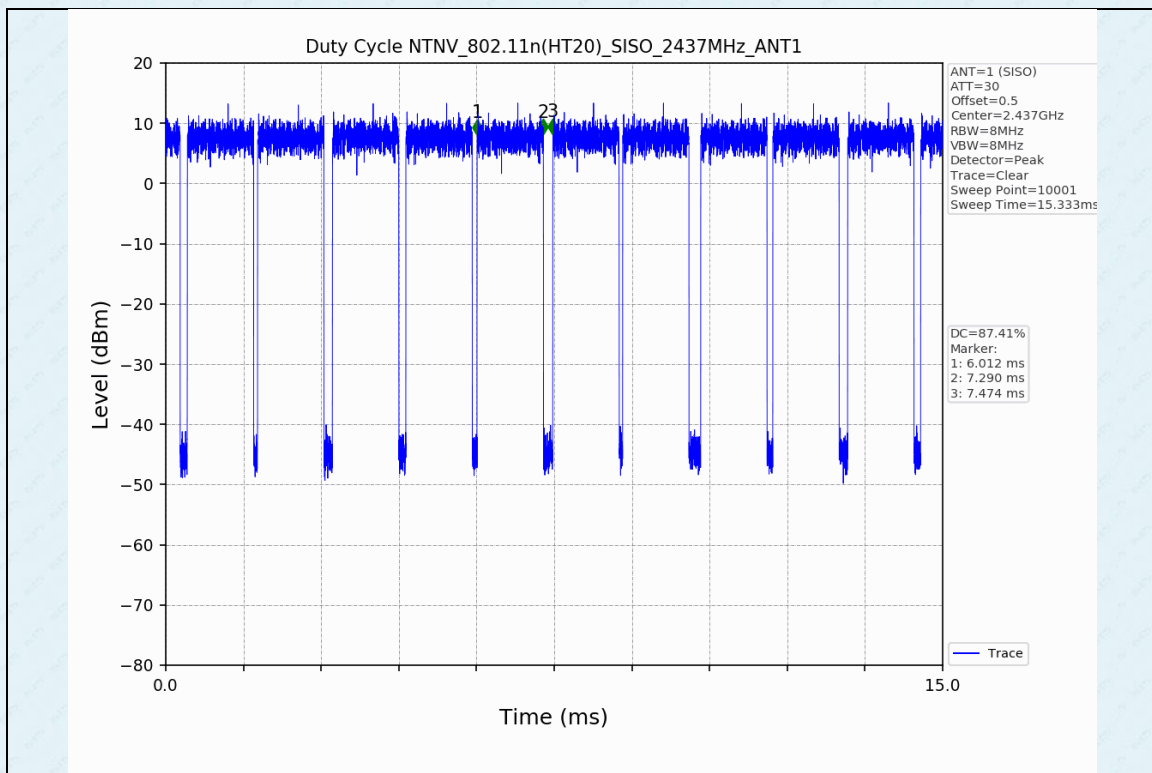
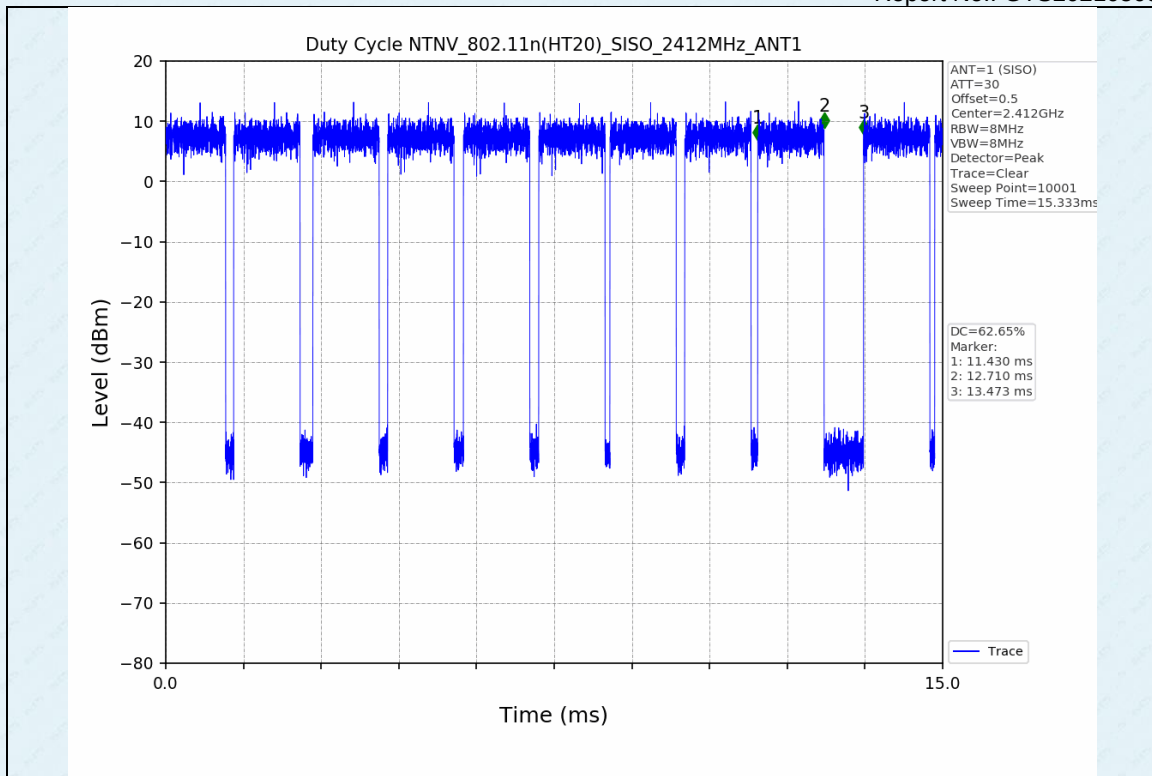
1.2 Test Graph

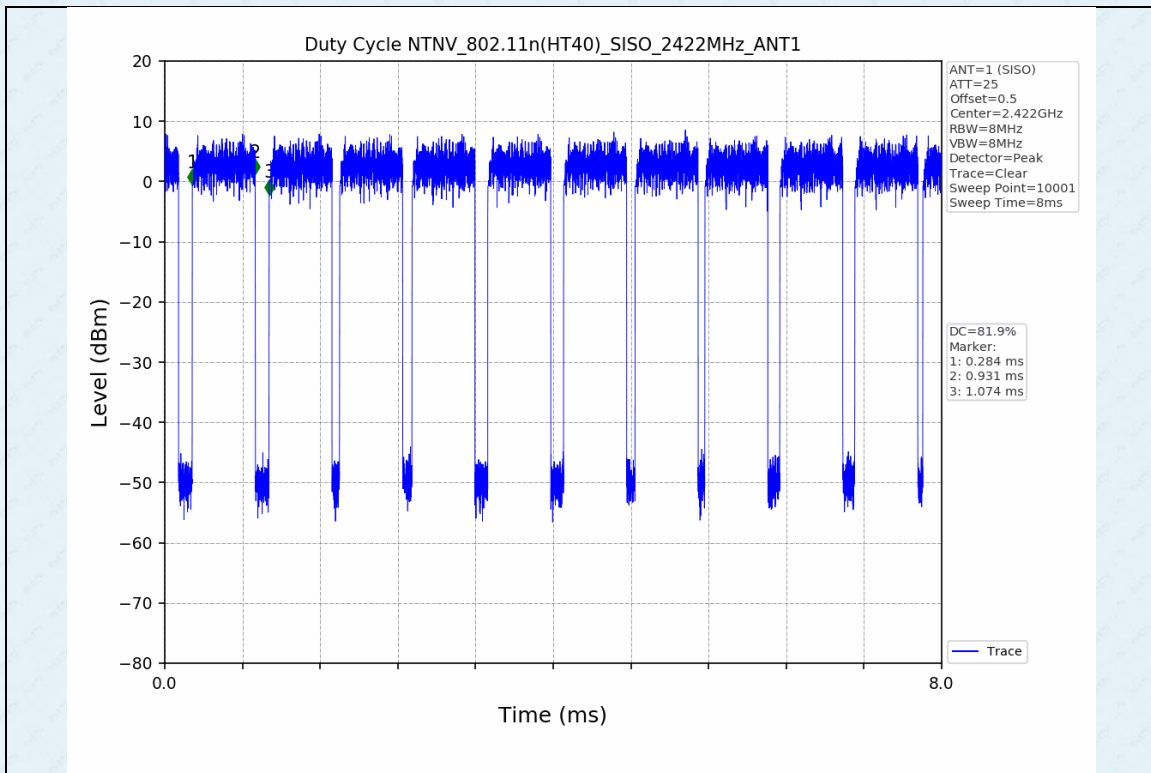
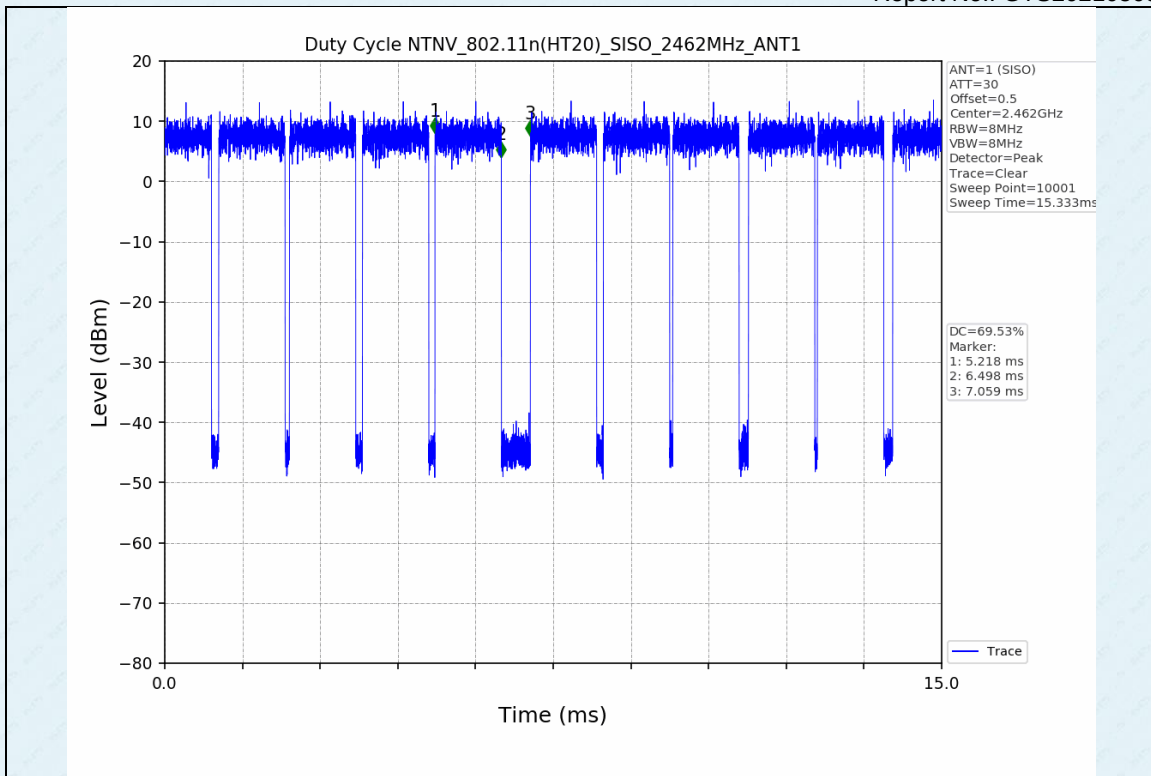
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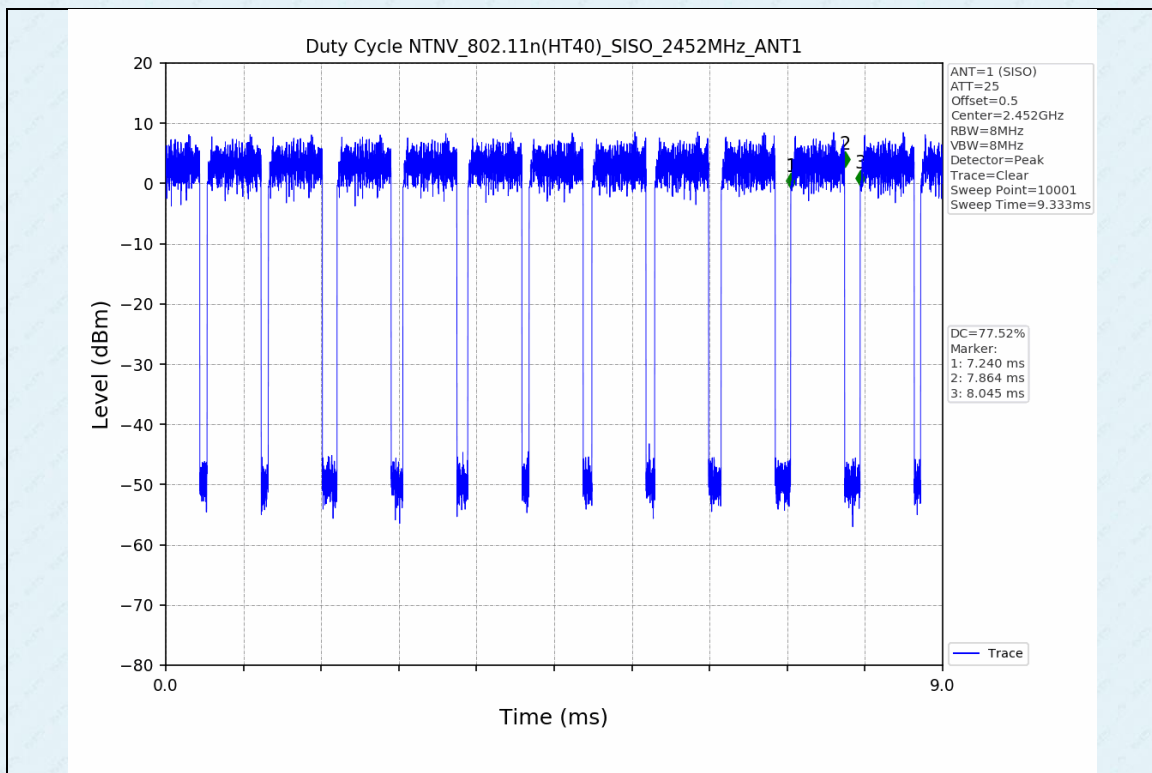
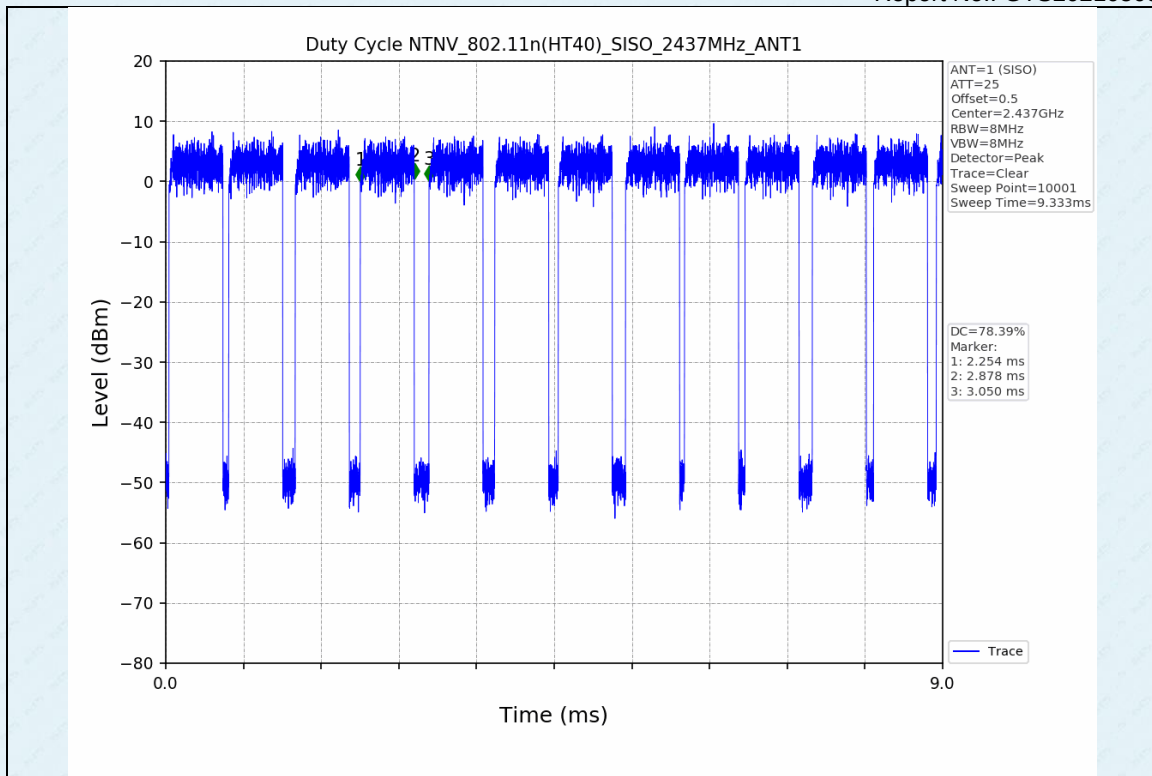




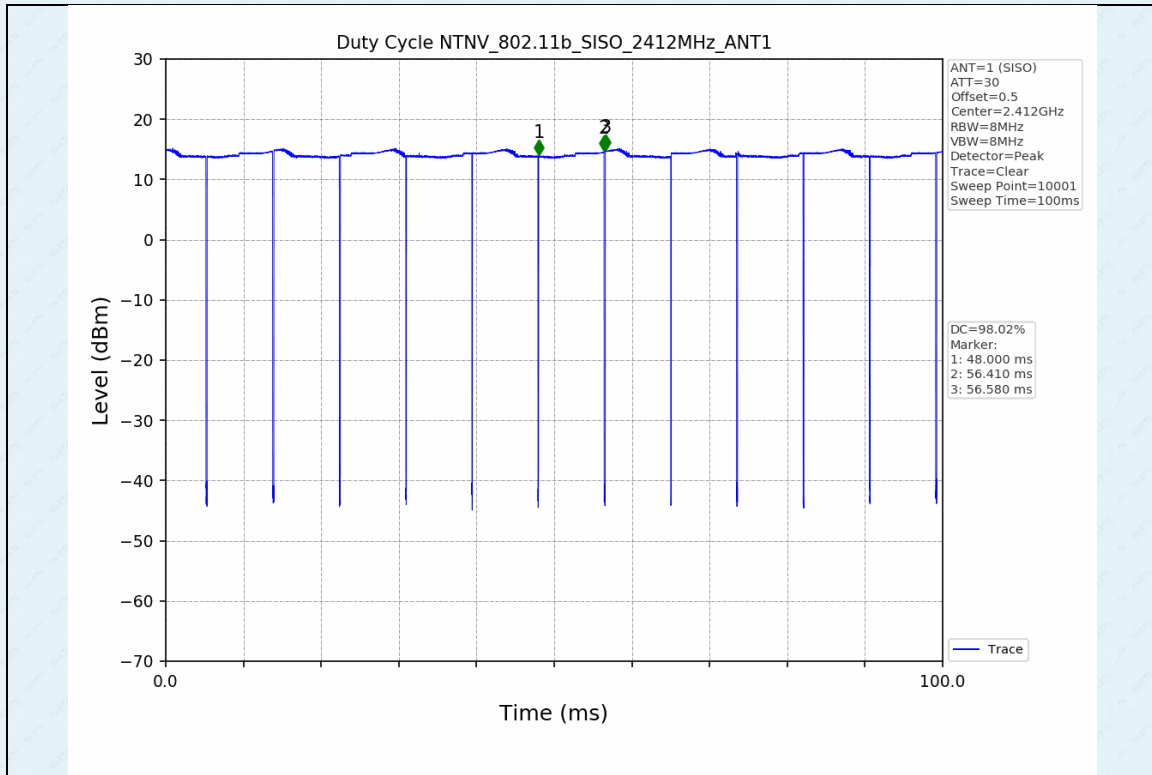


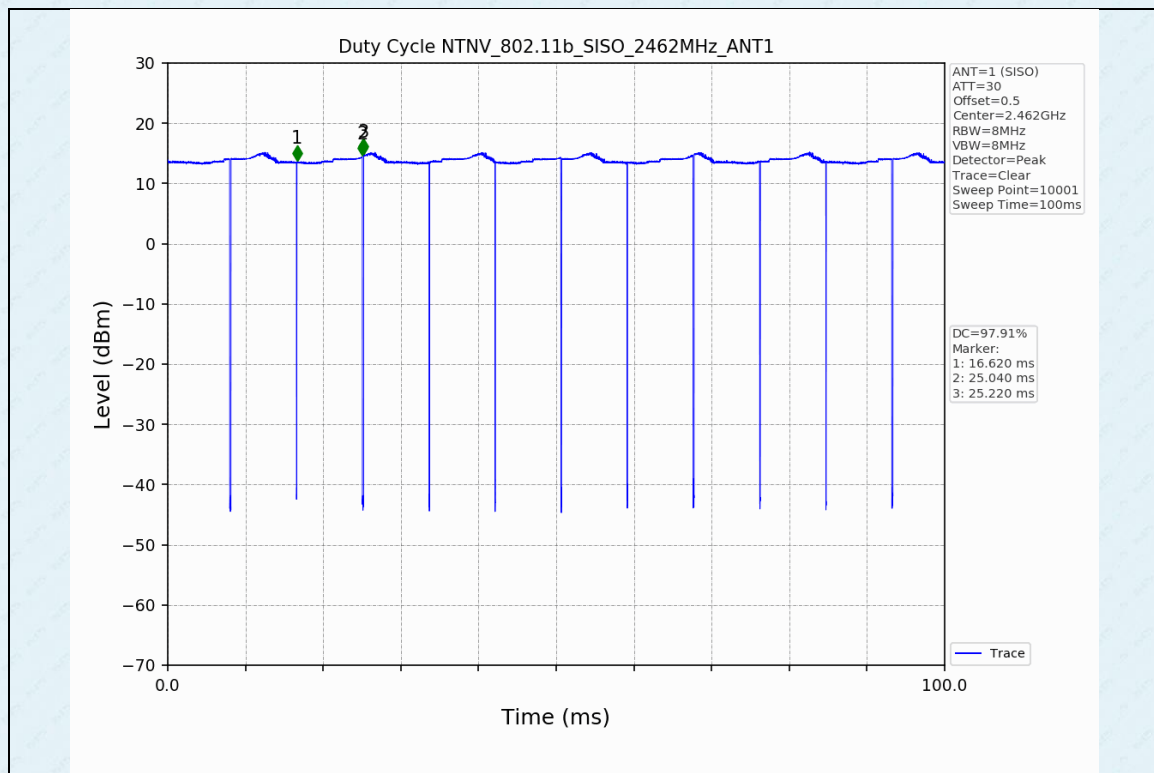
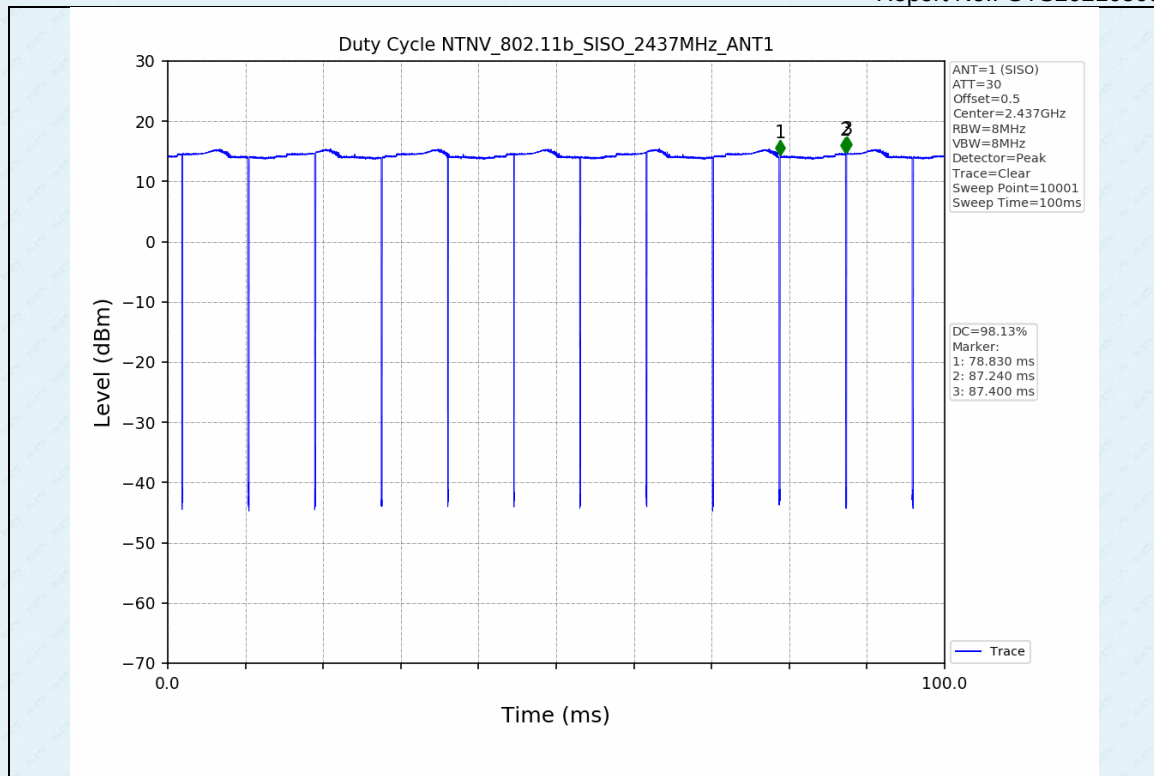


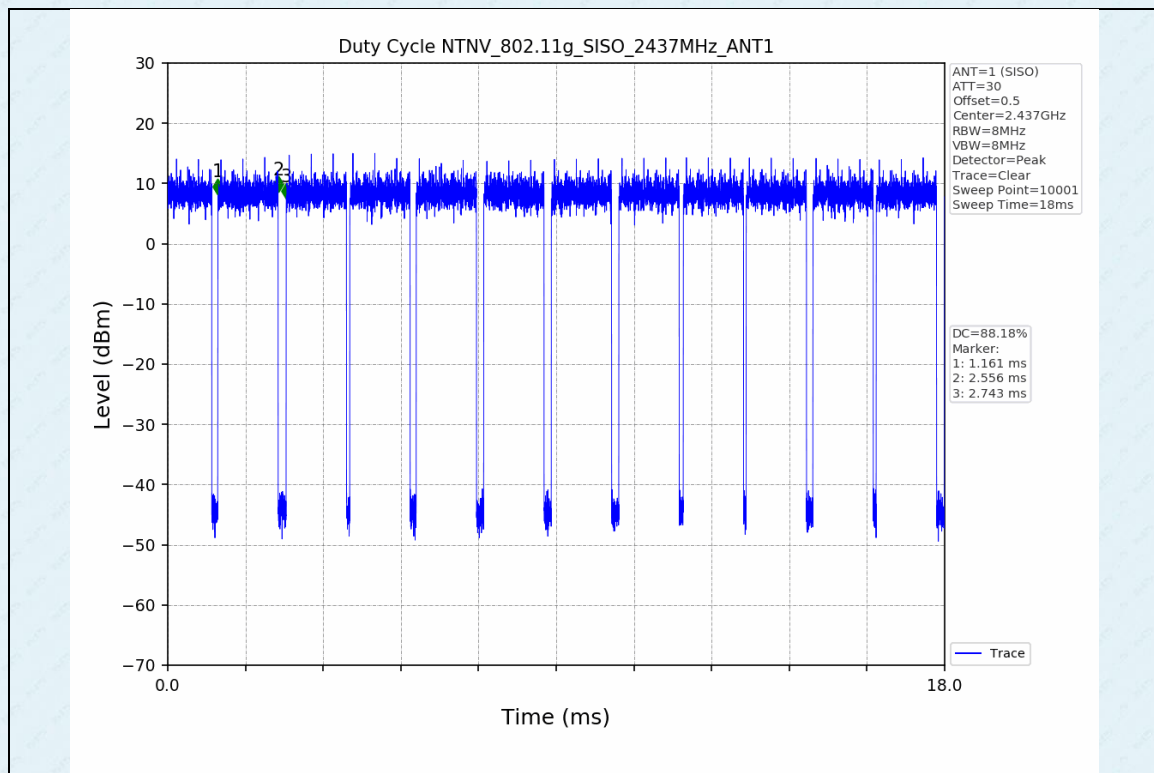
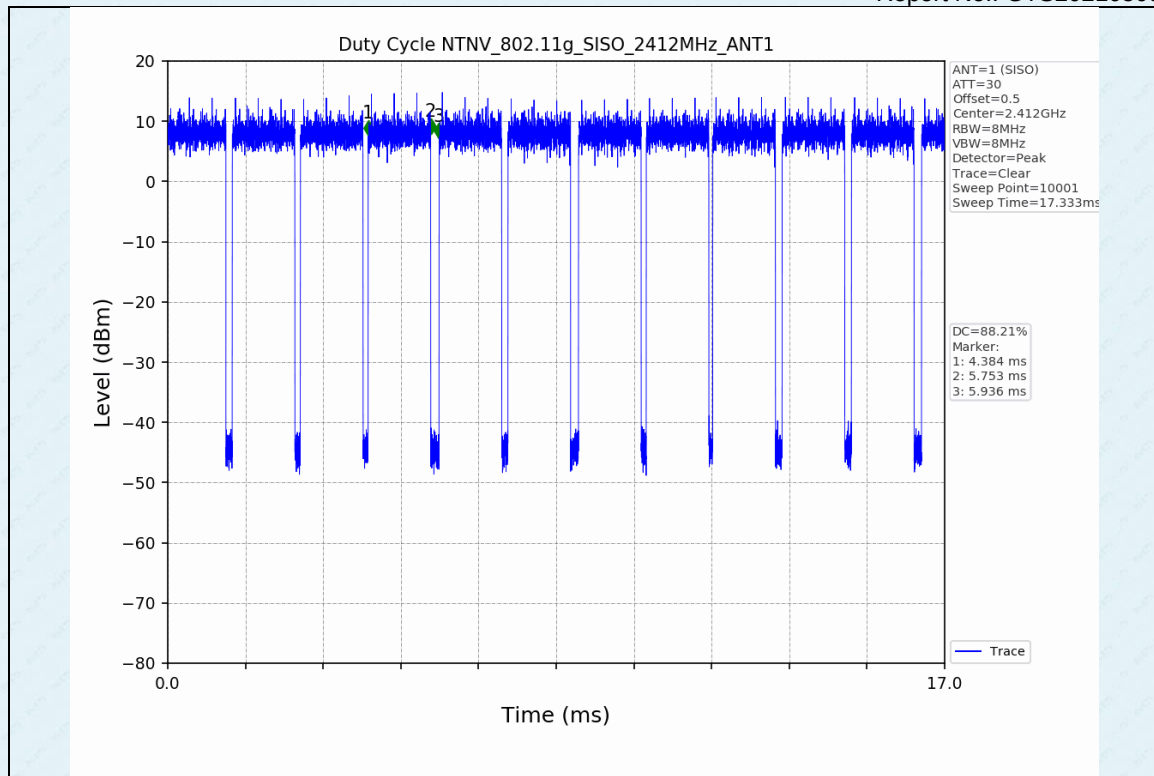


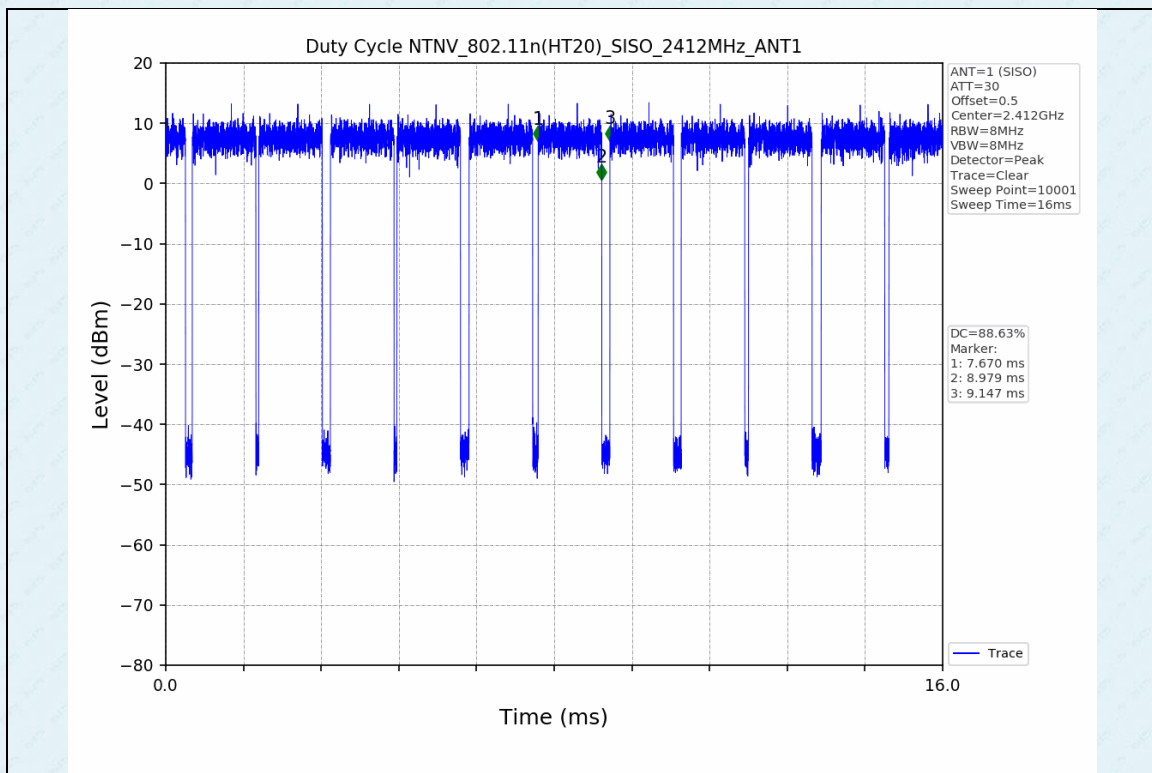
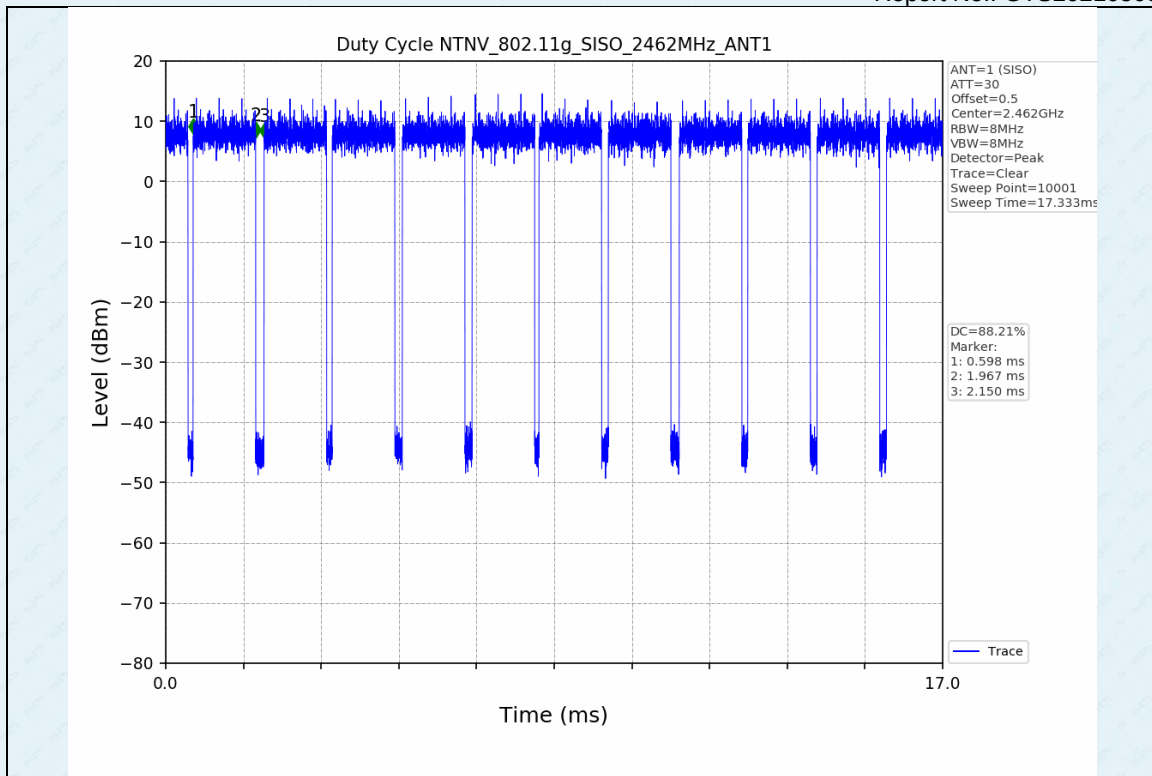


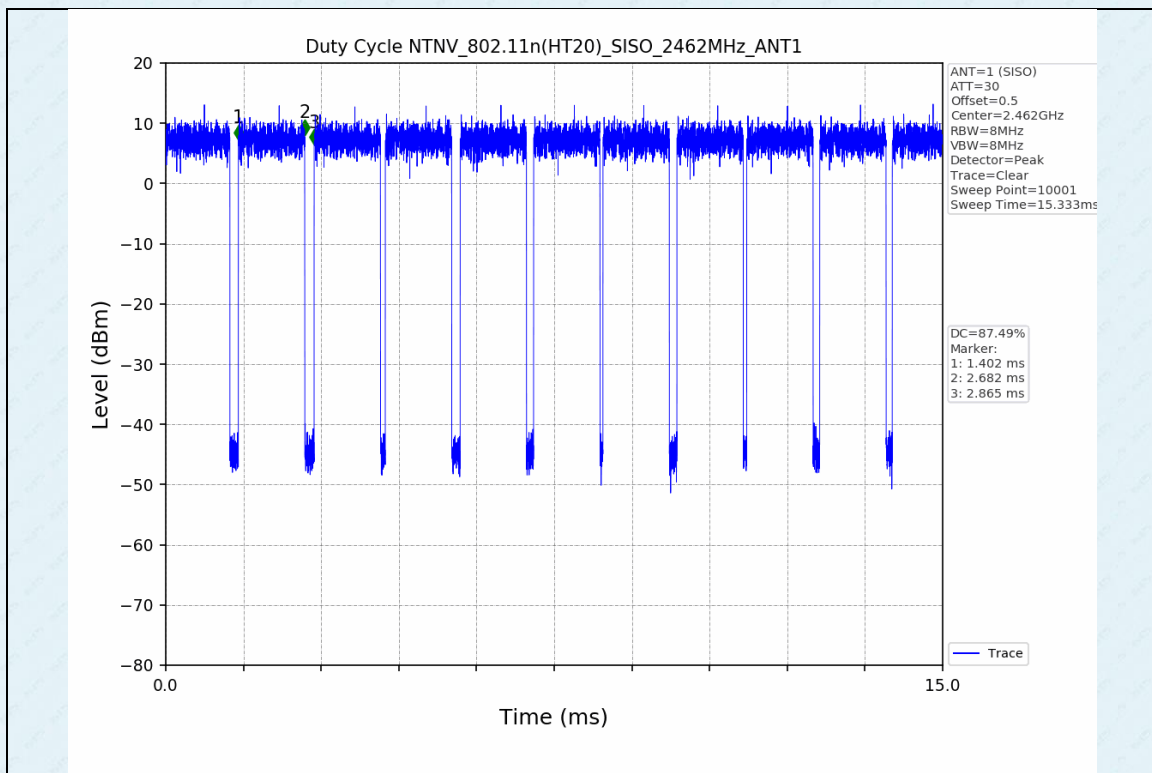
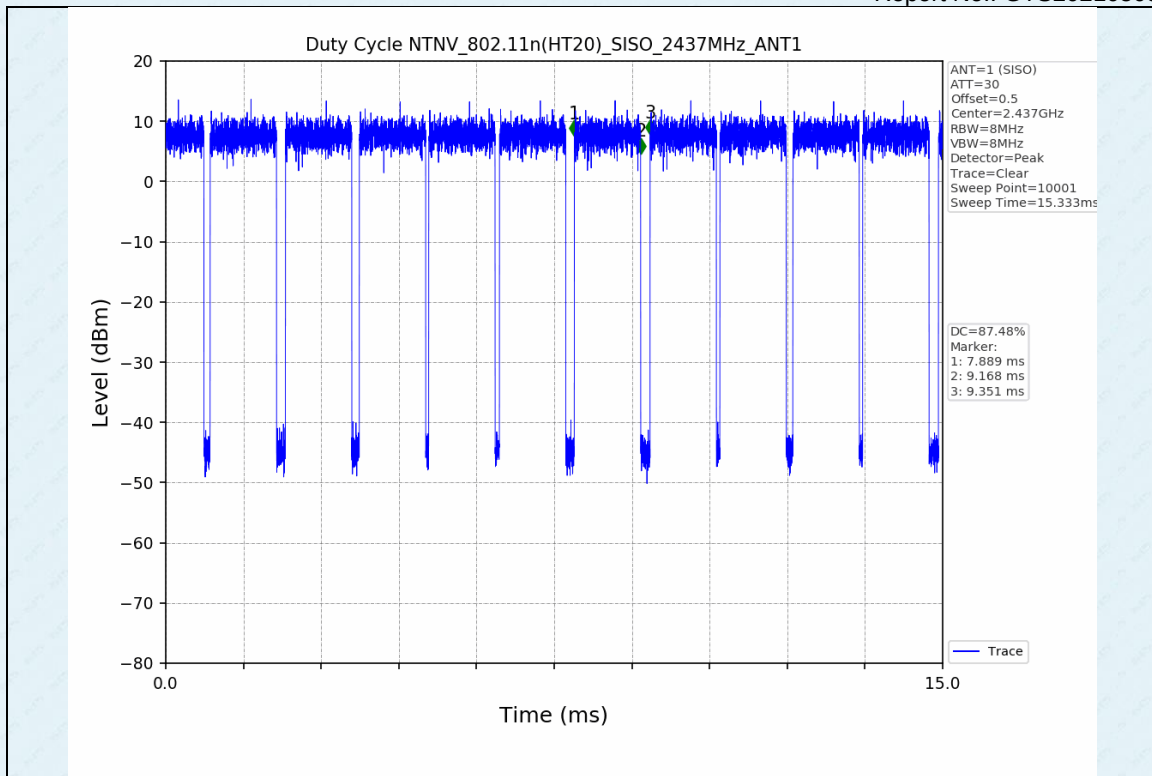
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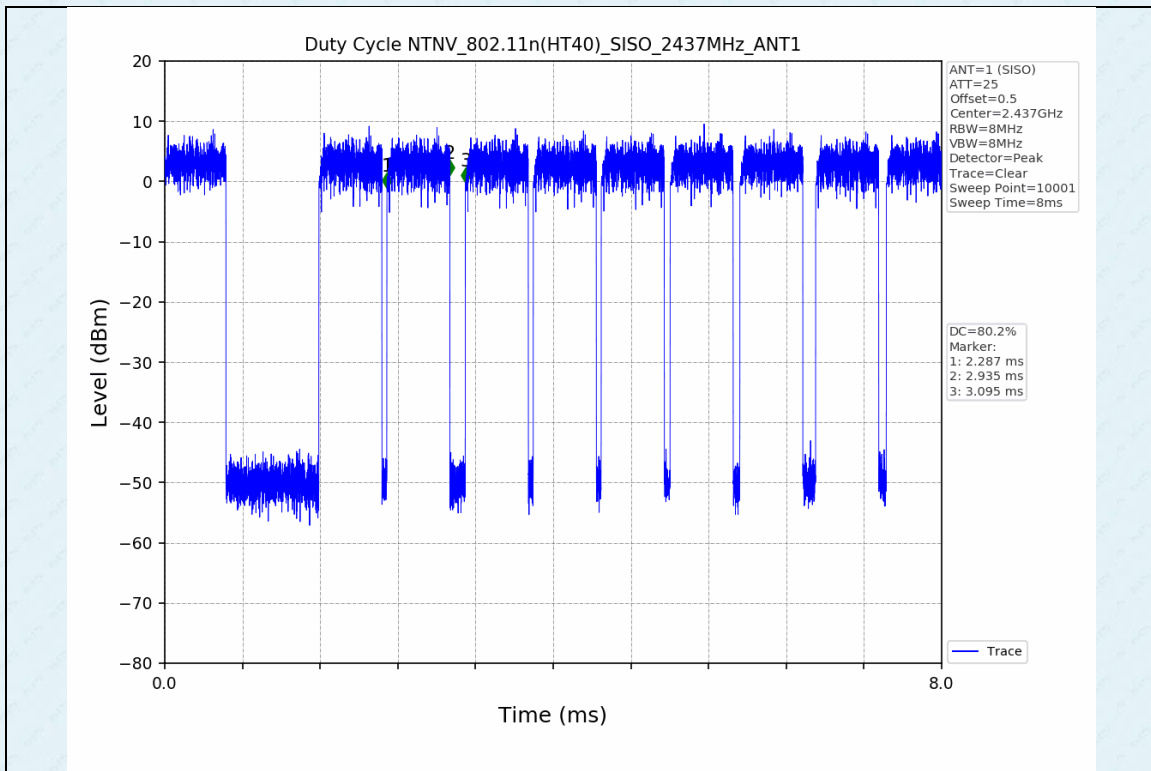
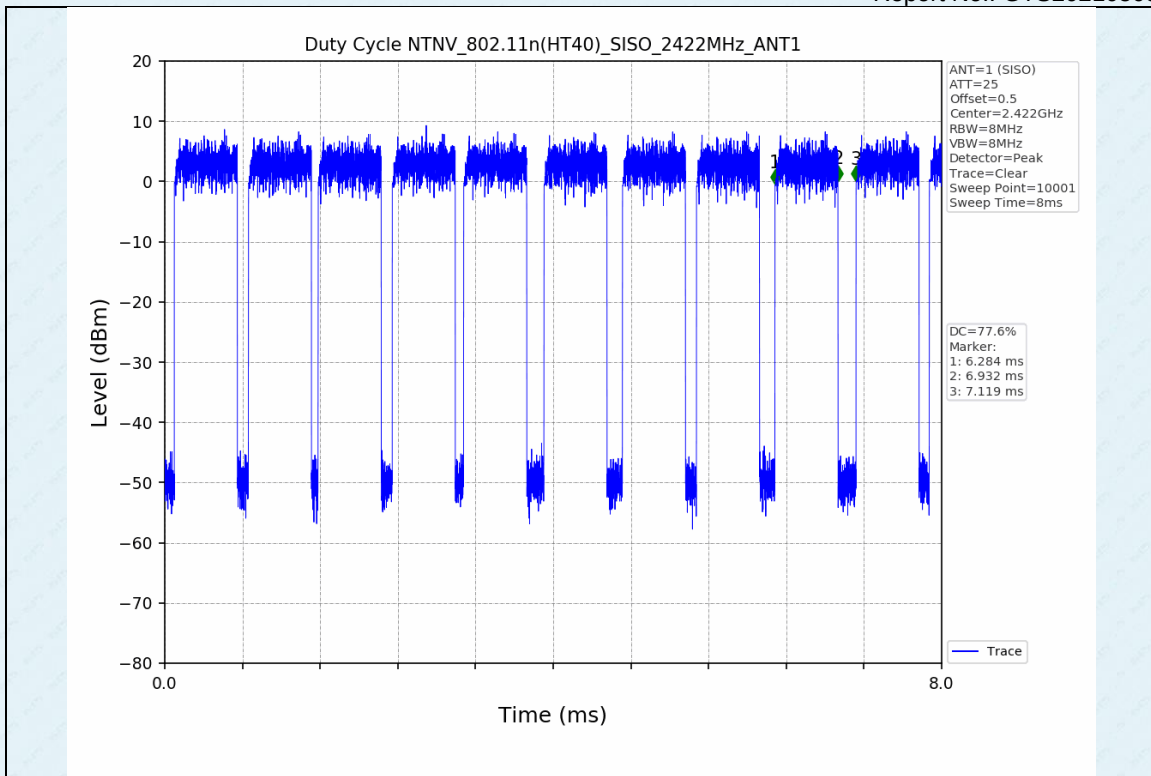


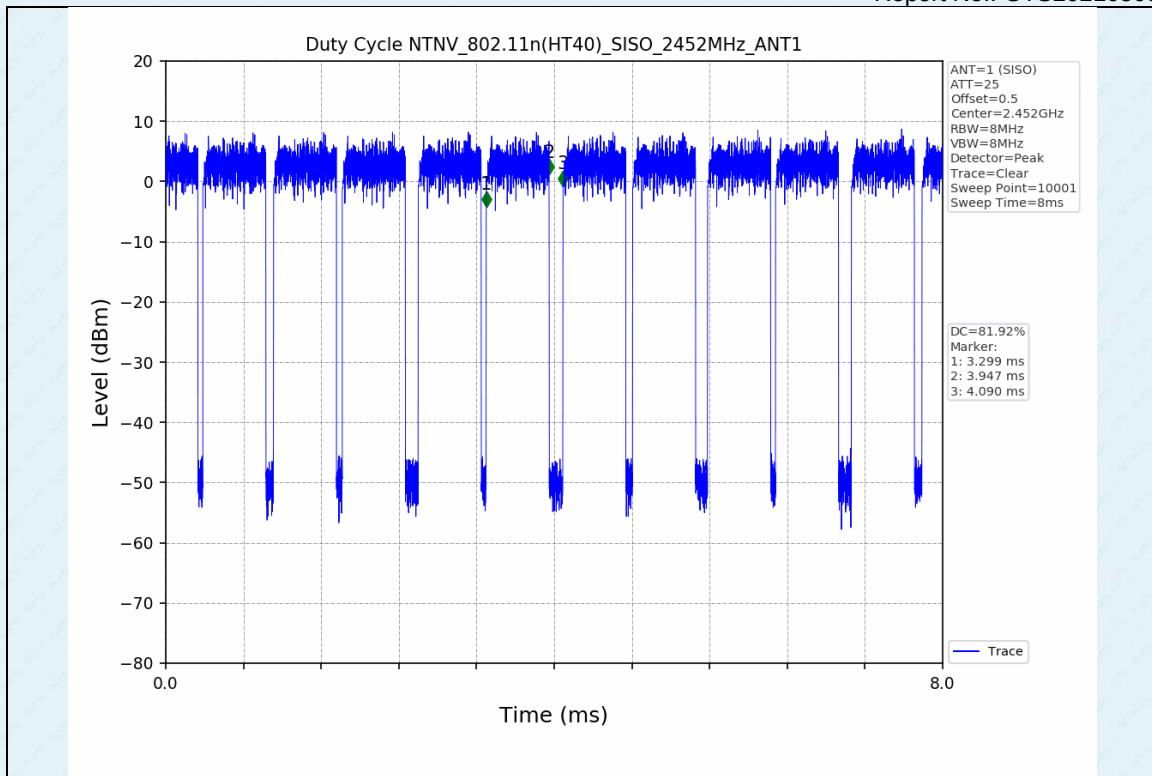












2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	9.581	≥0.5	PASS
	2437	SISO	1	9.602	≥0.5	PASS
	2462	SISO	1	10.010	≥0.5	PASS
802.11g	2412	SISO	1	16.404	≥0.5	PASS
	2437	SISO	1	16.409	≥0.5	PASS
	2462	SISO	1	16.391	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.630	≥0.5	PASS
	2437	SISO	1	17.618	≥0.5	PASS
	2462	SISO	1	17.650	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	36.063	≥0.5	PASS
	2437	SISO	1	35.847	≥0.5	PASS
	2452	SISO	1	35.759	≥0.5	PASS

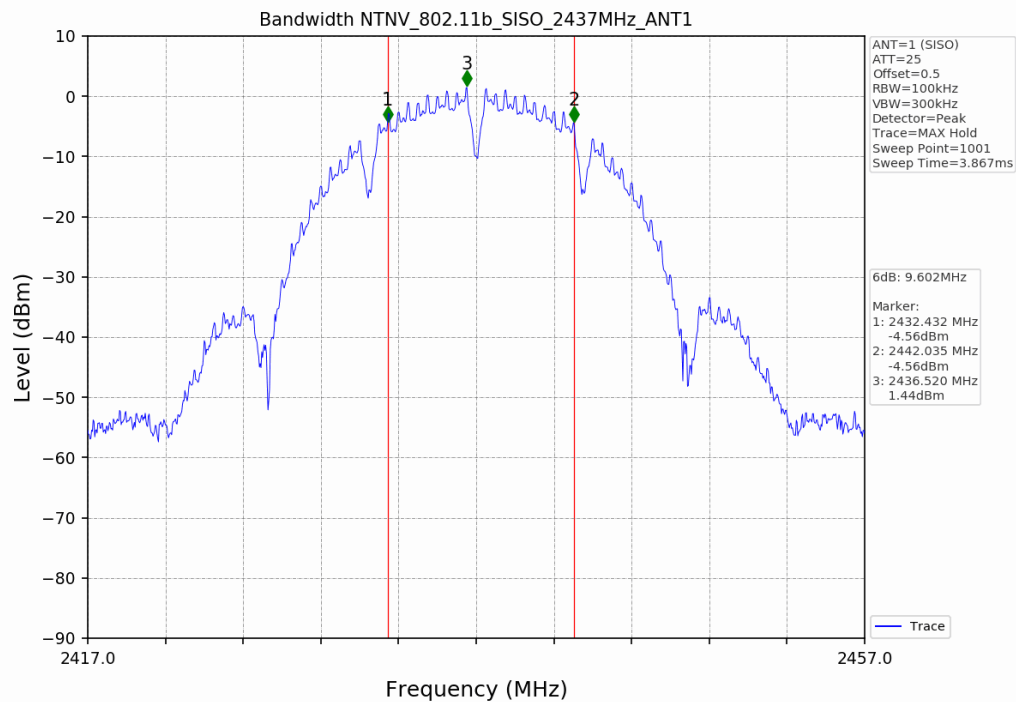
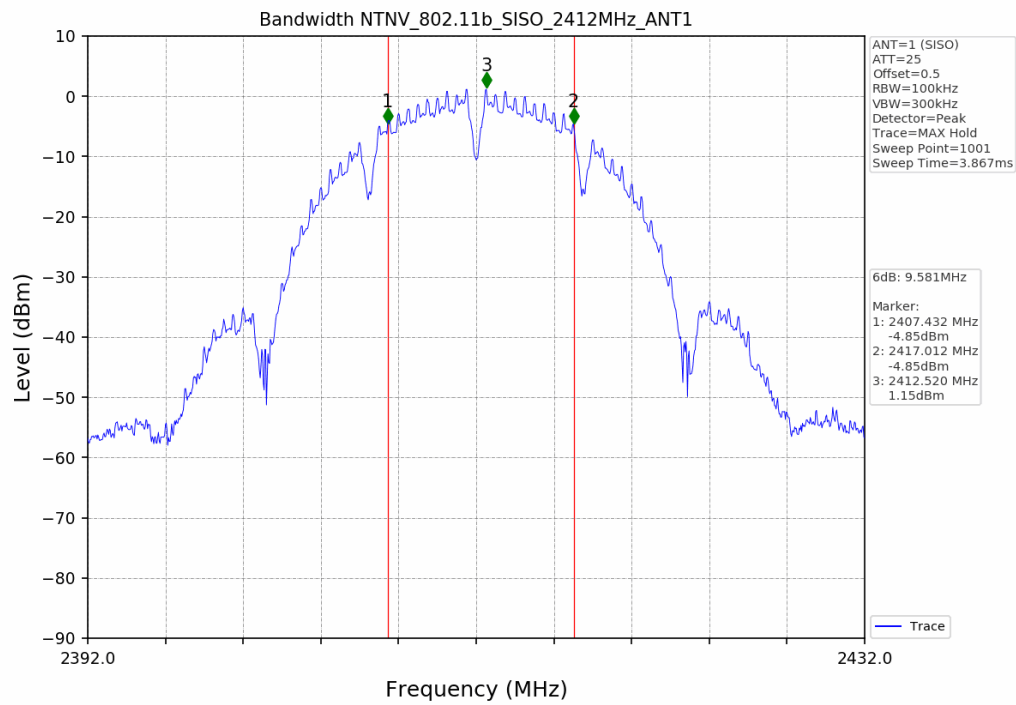
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.122	Only for Report Use
	2437	SISO	1	15.124	Only for Report Use
	2462	SISO	1	15.116	Only for Report Use
802.11g	2412	SISO	1	16.961	Only for Report Use
	2437	SISO	1	16.960	Only for Report Use
	2462	SISO	1	16.995	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.078	Only for Report Use
	2437	SISO	1	18.105	Only for Report Use
	2462	SISO	1	18.121	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.382	Only for Report Use
	2437	SISO	1	36.408	Only for Report Use
	2452	SISO	1	36.399	Only for Report Use

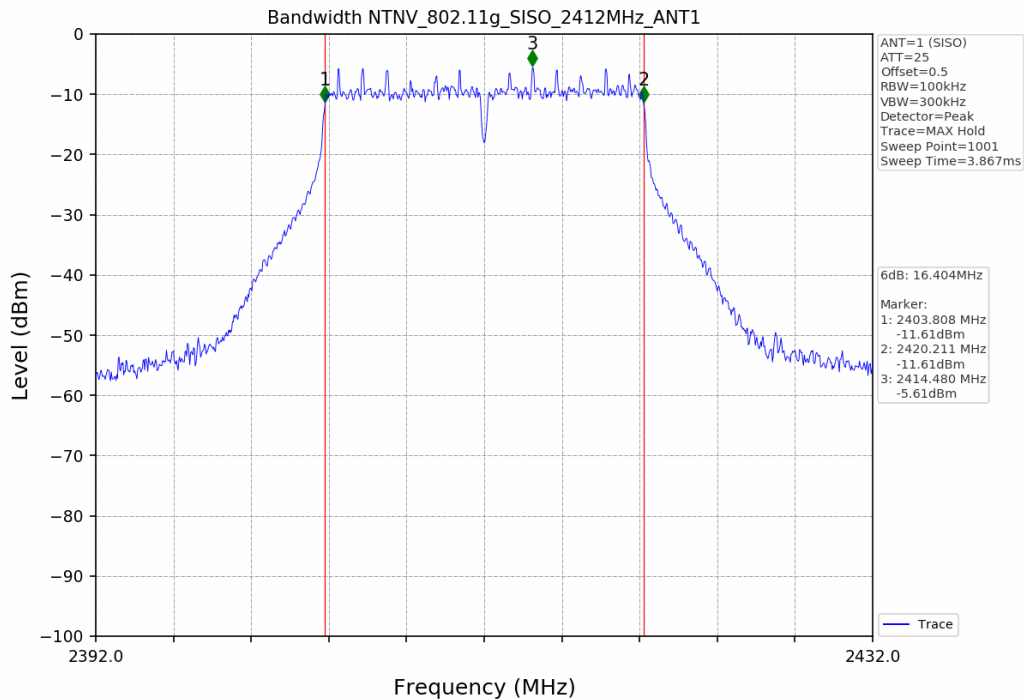
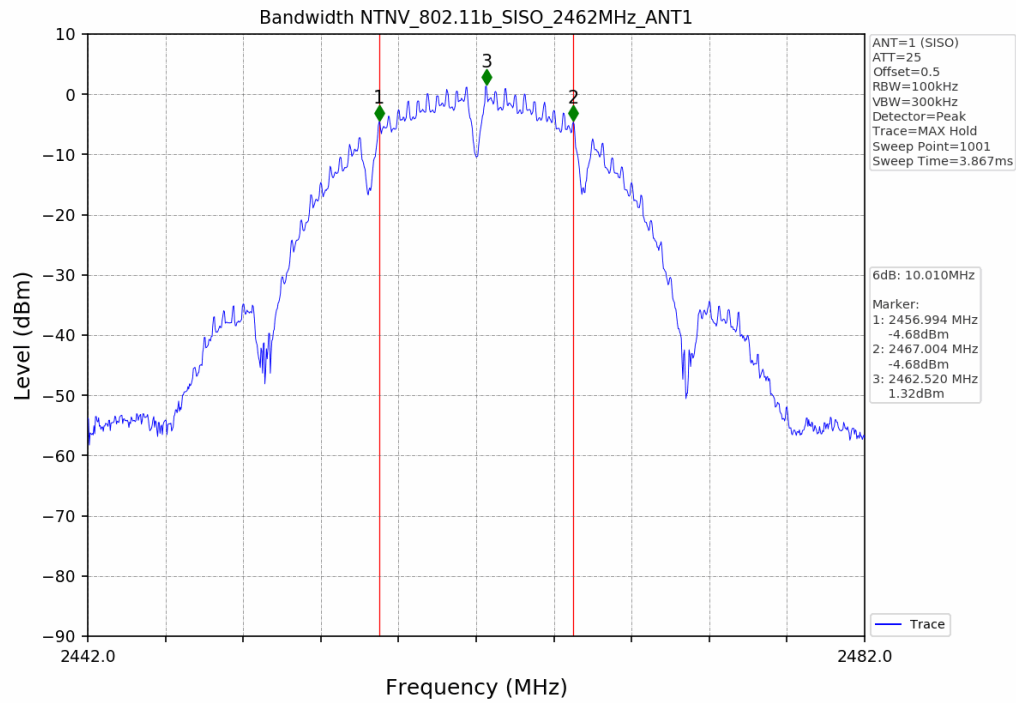
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	2	10.021	≥0.5	PASS
	2437	SISO	2	10.048	≥0.5	PASS
	2462	SISO	2	9.585	≥0.5	PASS
802.11g	2412	SISO	2	16.373	≥0.5	PASS
	2437	SISO	2	16.377	≥0.5	PASS
	2462	SISO	2	16.378	≥0.5	PASS
802.11n(HT20)	2412	SISO	2	17.585	≥0.5	PASS
	2437	SISO	2	17.637	≥0.5	PASS
	2462	SISO	2	17.636	≥0.5	PASS
802.11n(HT40)	2422	SISO	2	35.573	≥0.5	PASS
	2437	SISO	2	35.731	≥0.5	PASS
	2452	SISO	2	35.677	≥0.5	PASS

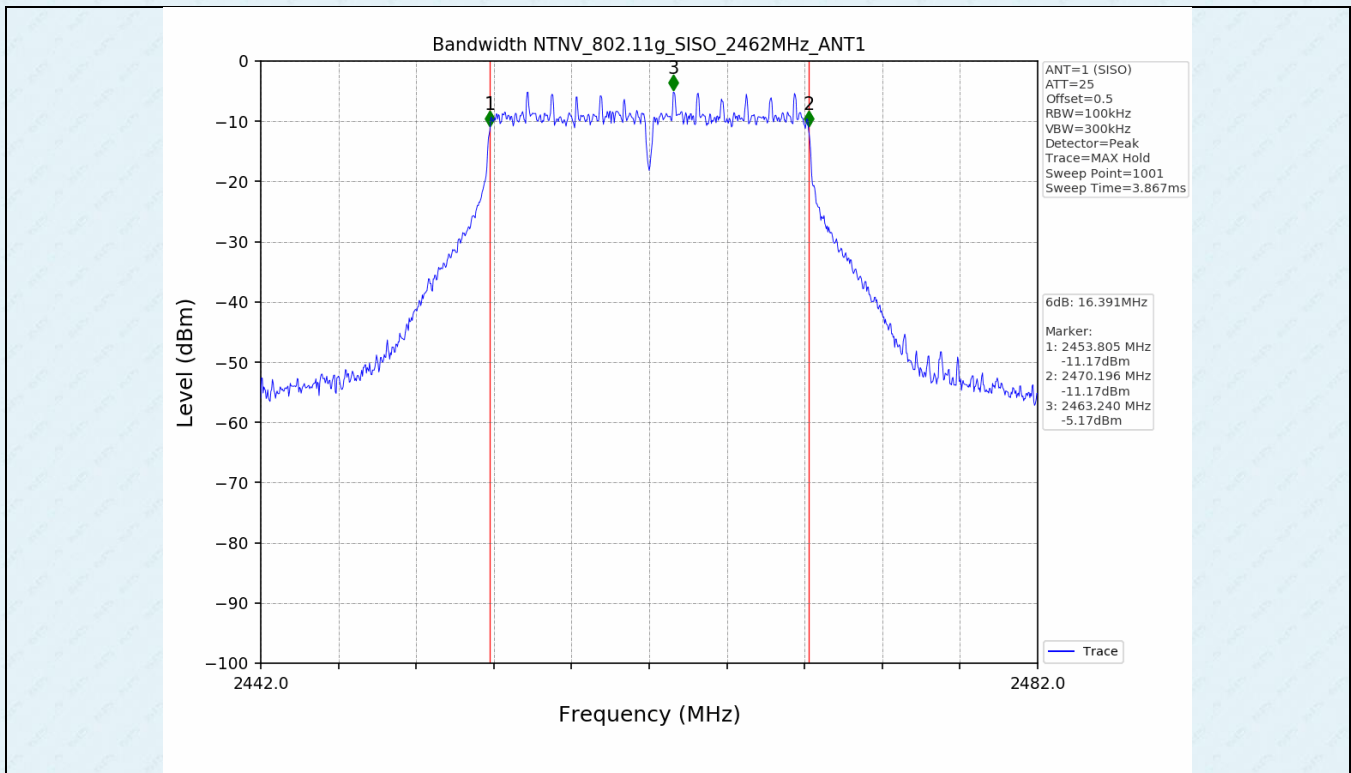
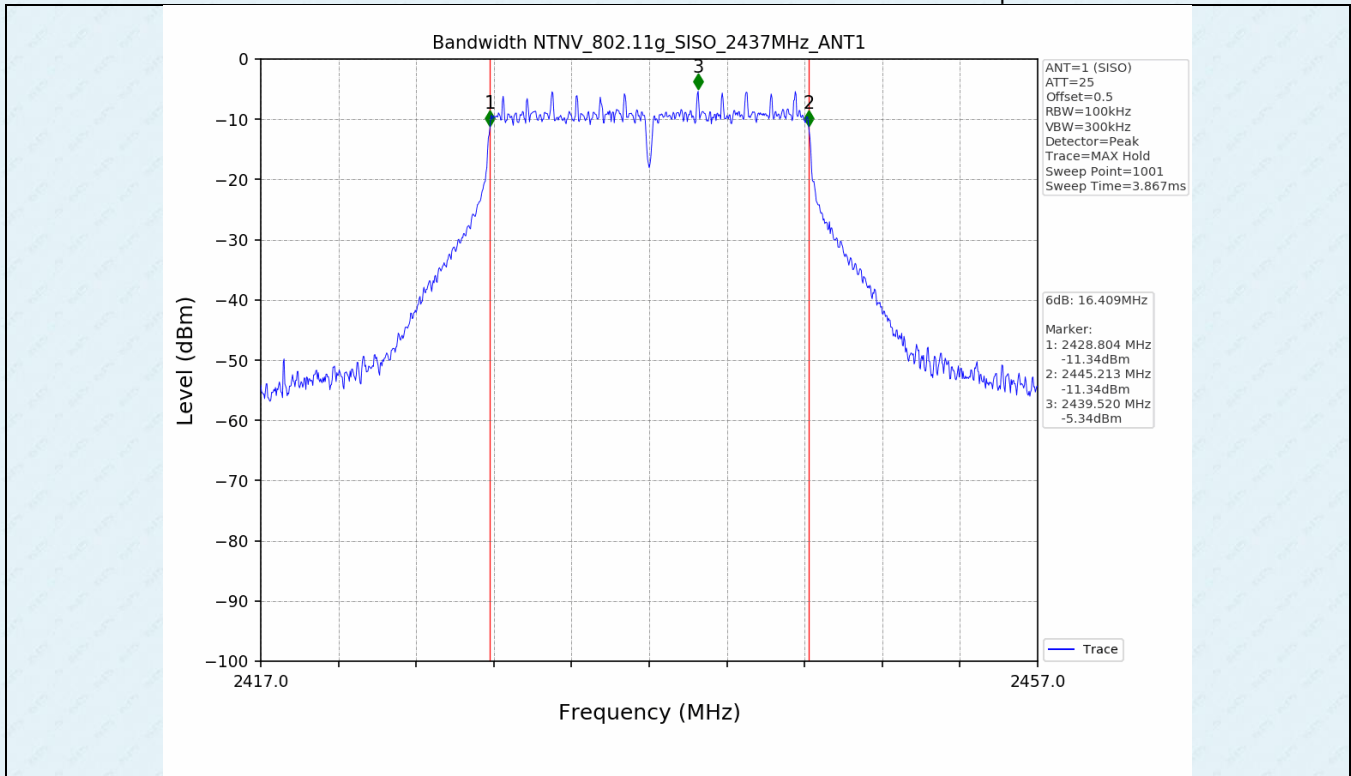
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	2	15.078	Only for Report Use
	2437	SISO	2	15.091	Only for Report Use
	2462	SISO	2	15.078	Only for Report Use
802.11g	2412	SISO	2	16.939	Only for Report Use
	2437	SISO	2	17.032	Only for Report Use
	2462	SISO	2	16.974	Only for Report Use
802.11n(HT20)	2412	SISO	2	18.076	Only for Report Use
	2437	SISO	2	18.067	Only for Report Use
	2462	SISO	2	18.078	Only for Report Use
802.11n(HT40)	2422	SISO	2	36.283	Only for Report Use
	2437	SISO	2	36.276	Only for Report Use
	2452	SISO	2	36.297	Only for Report Use

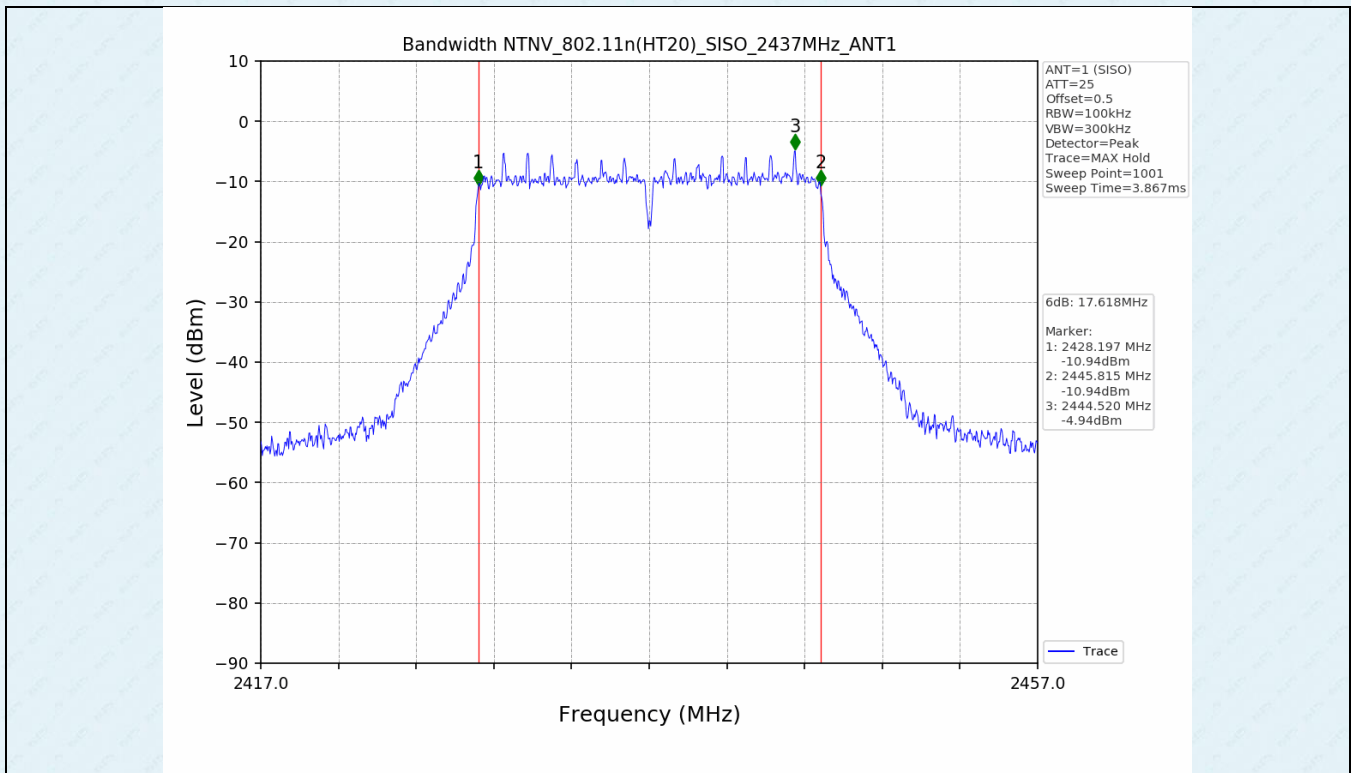
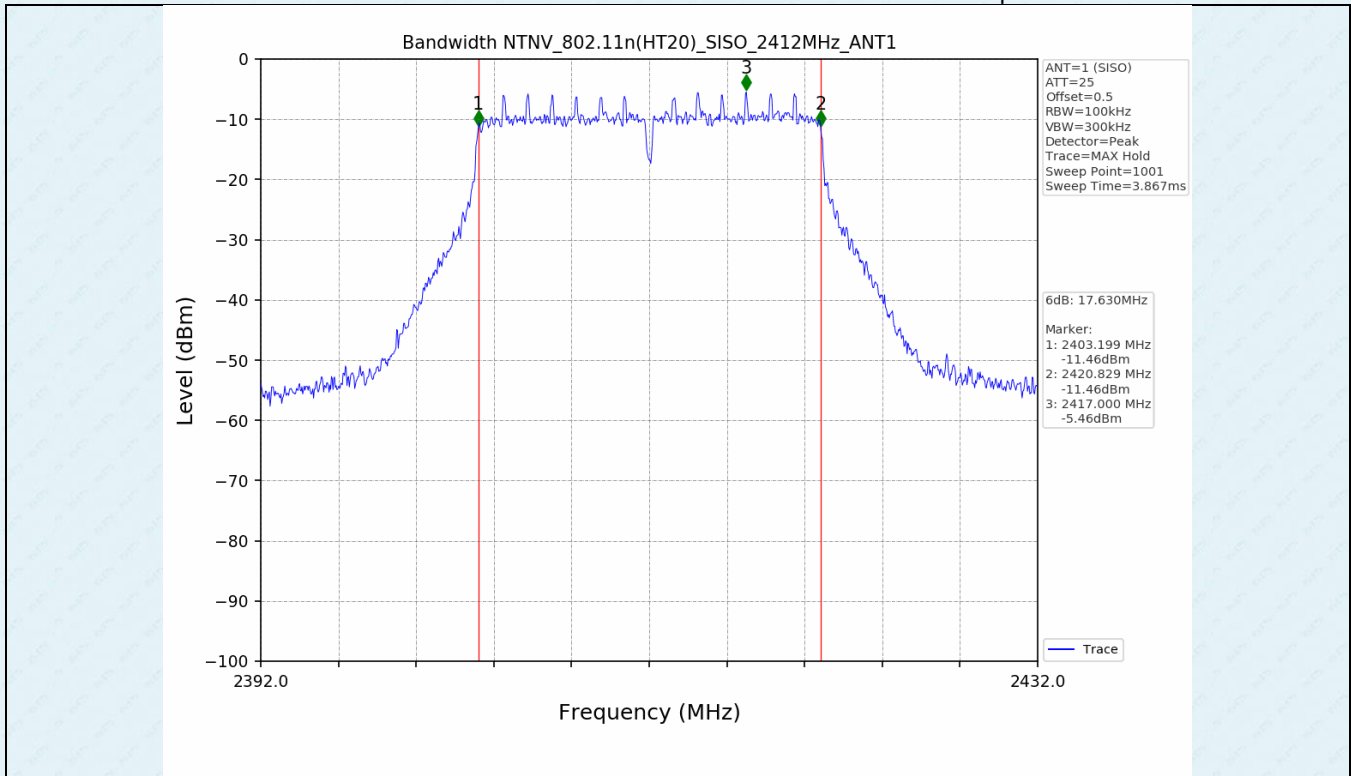
2.2 Test Graph - 6dB Bandwidth

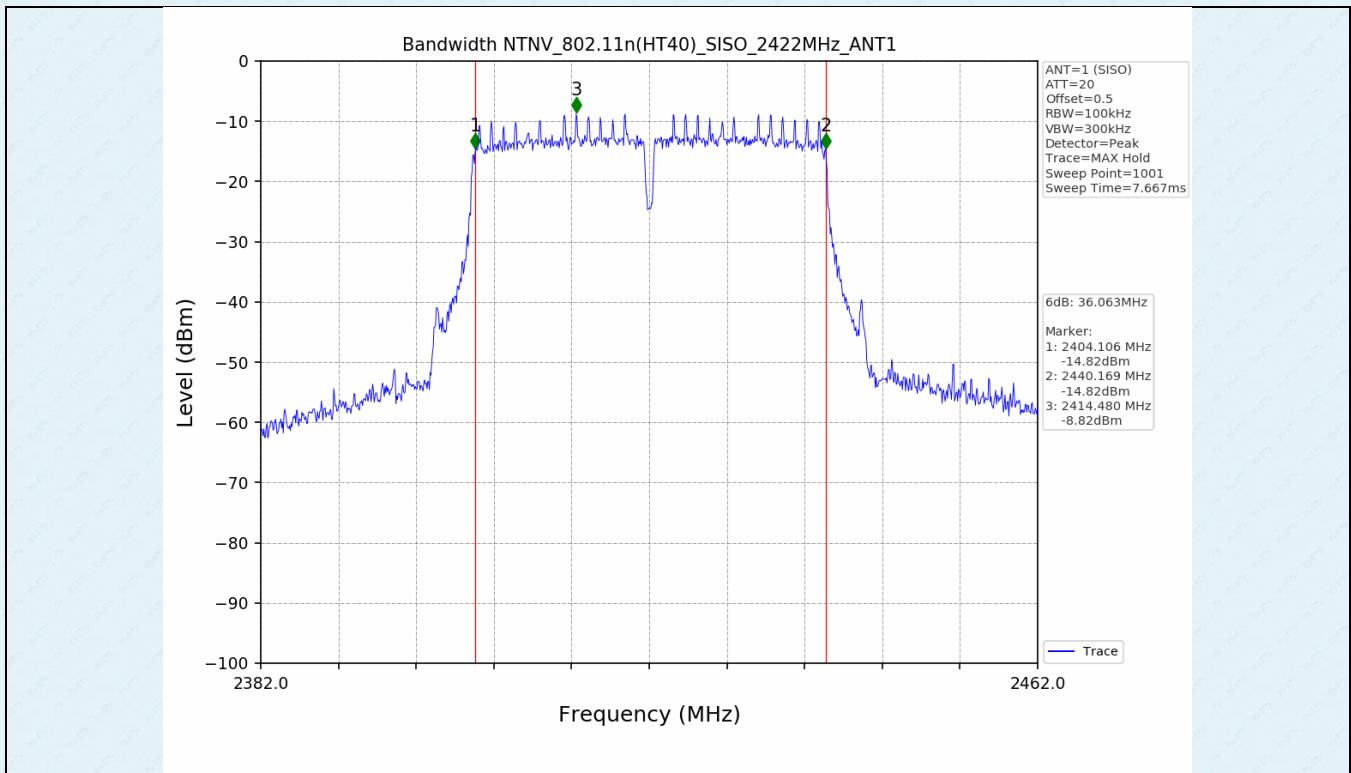
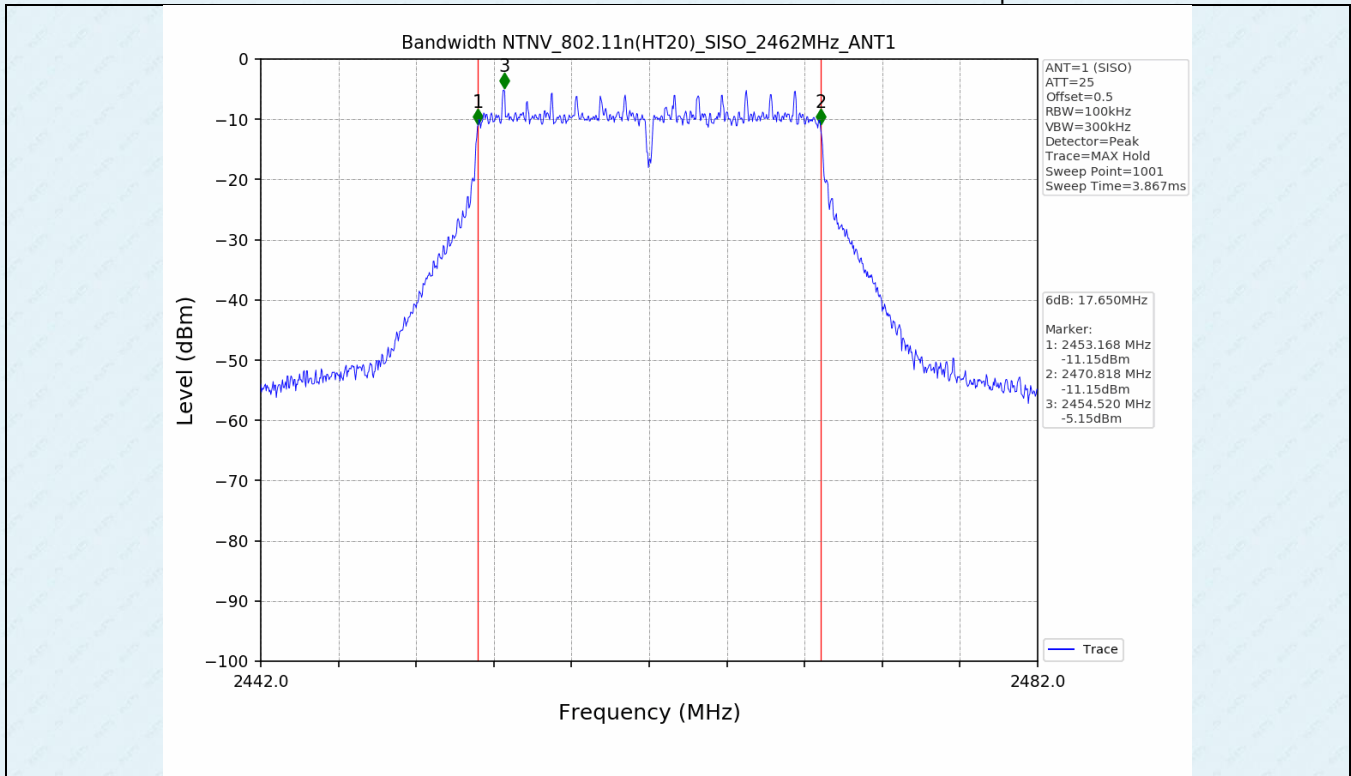
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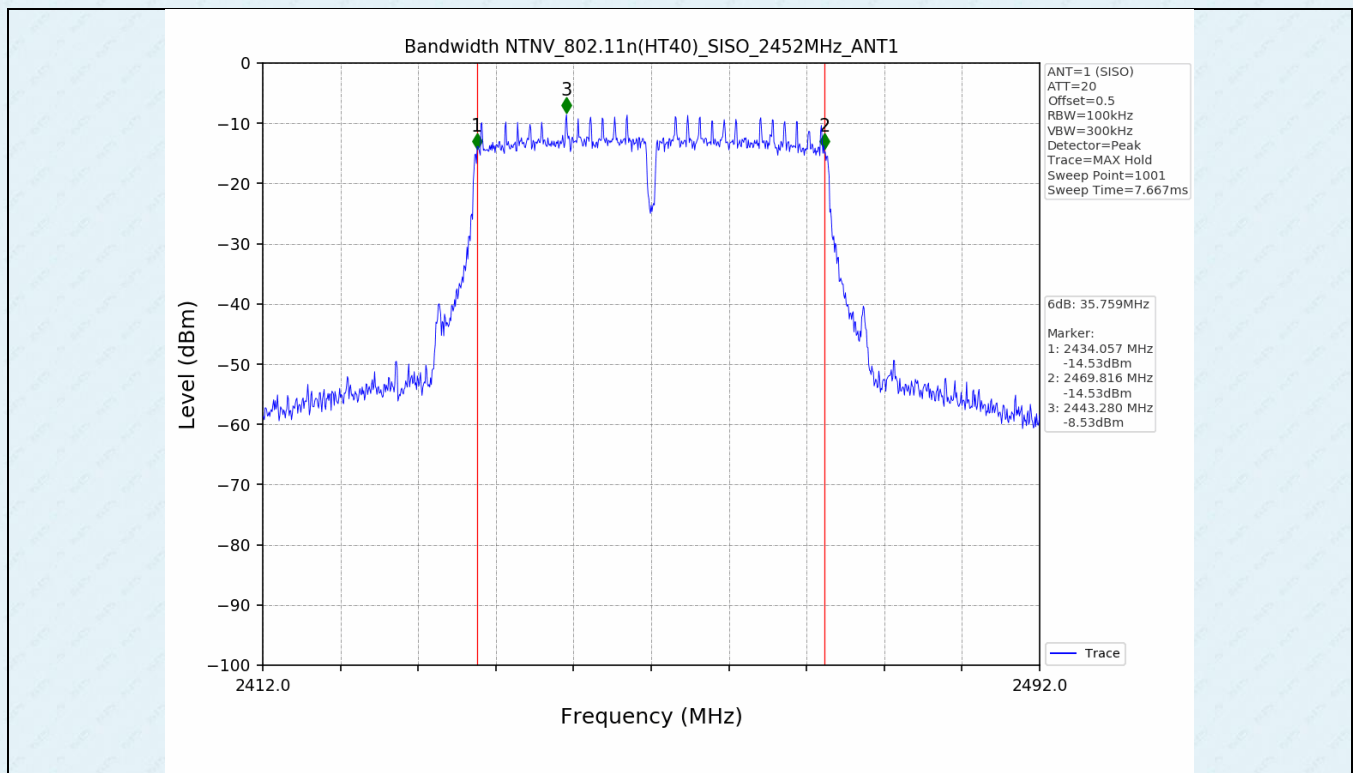
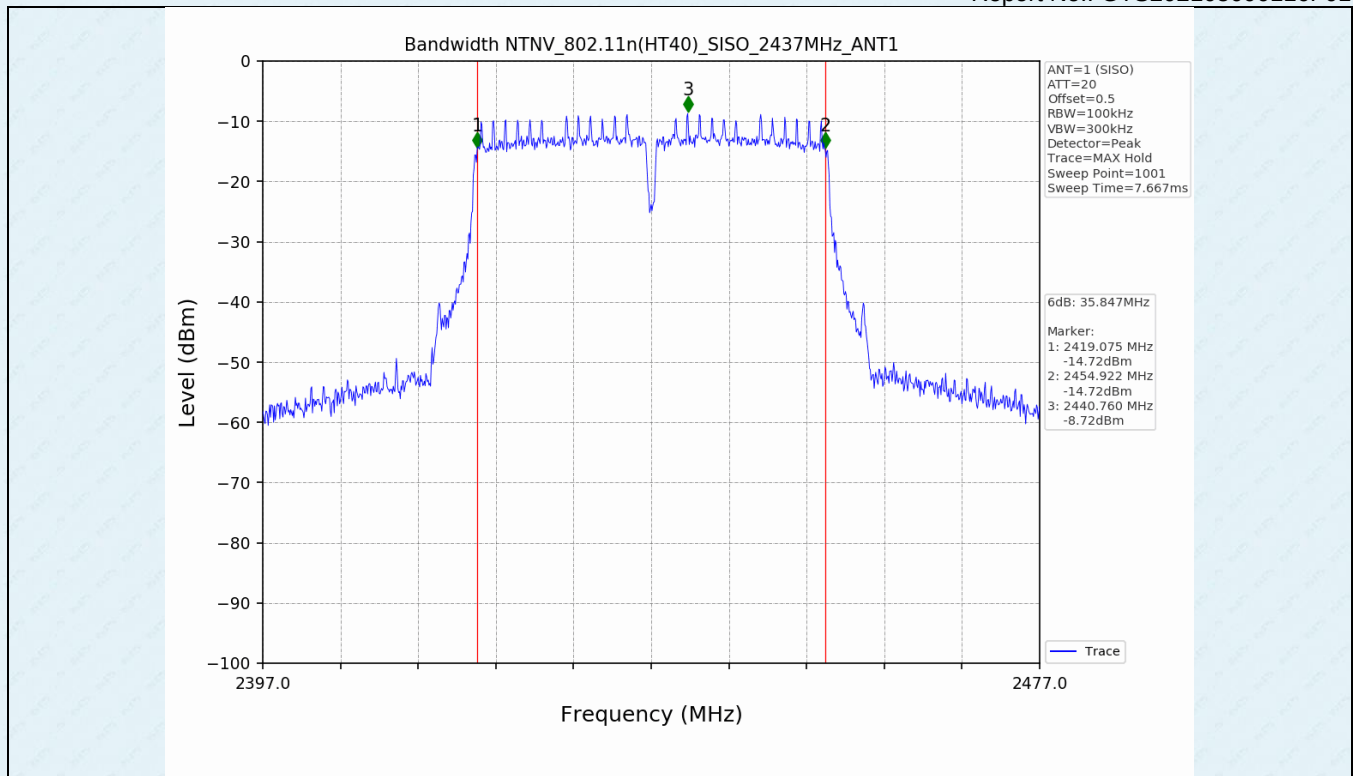




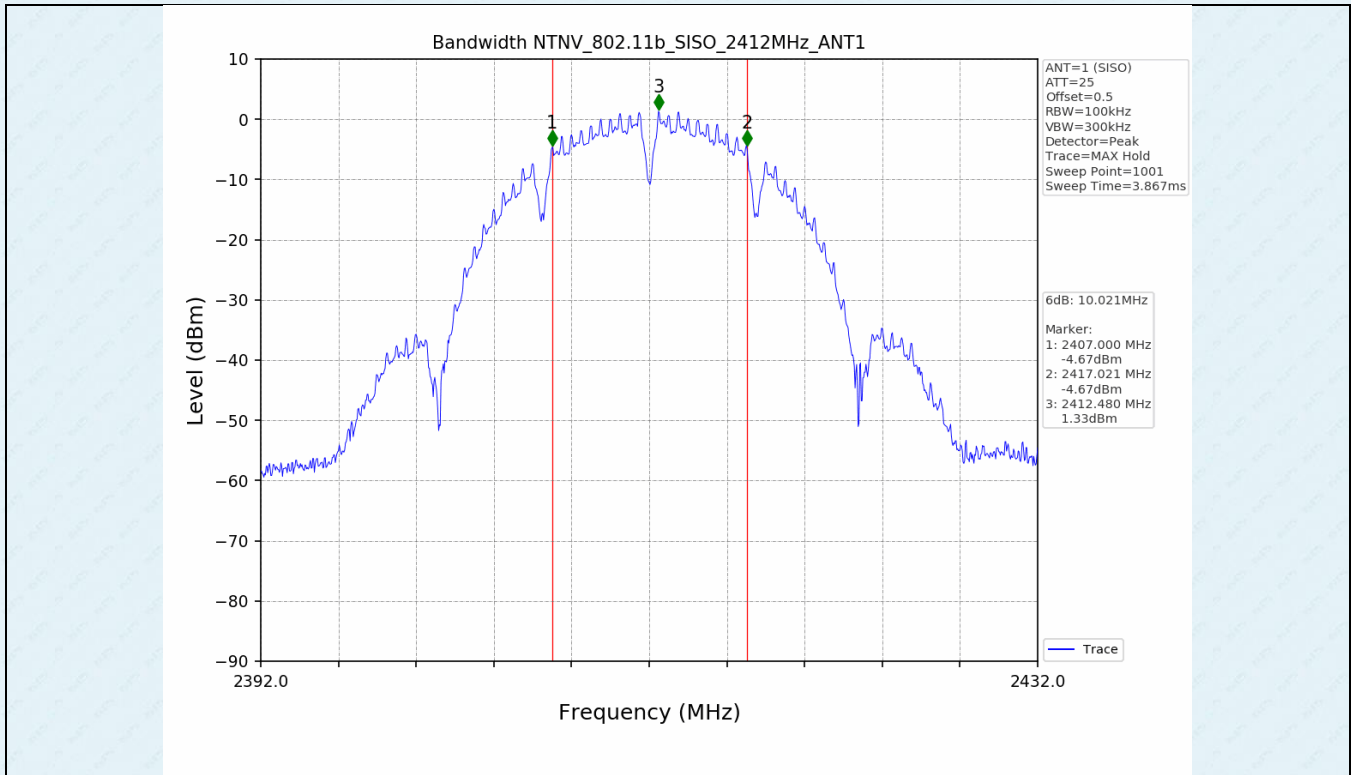


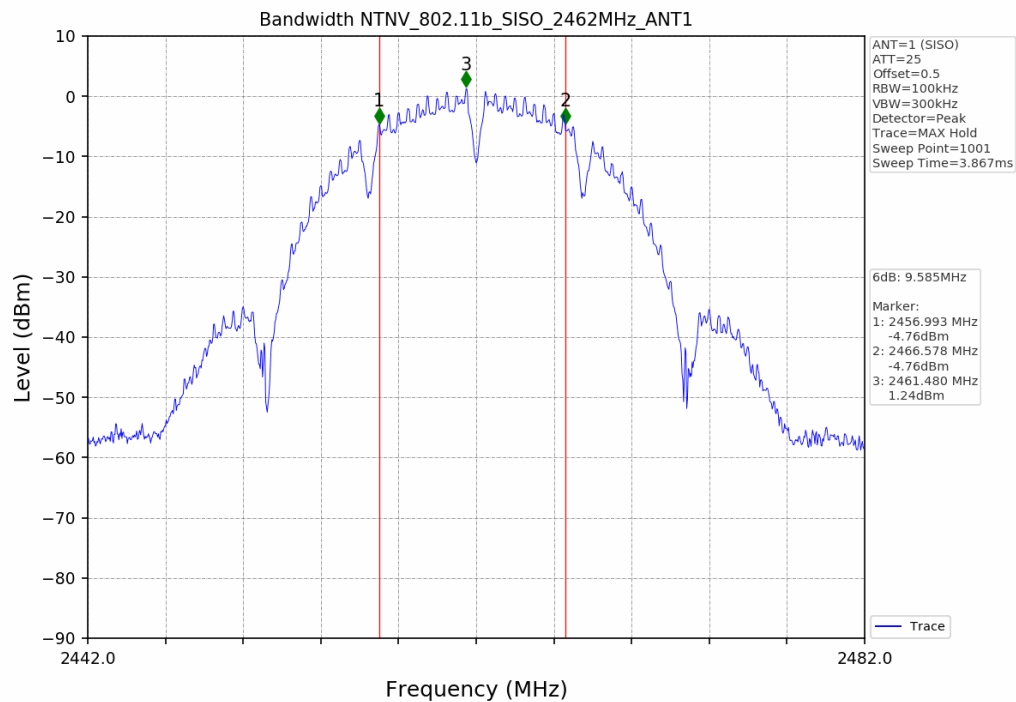
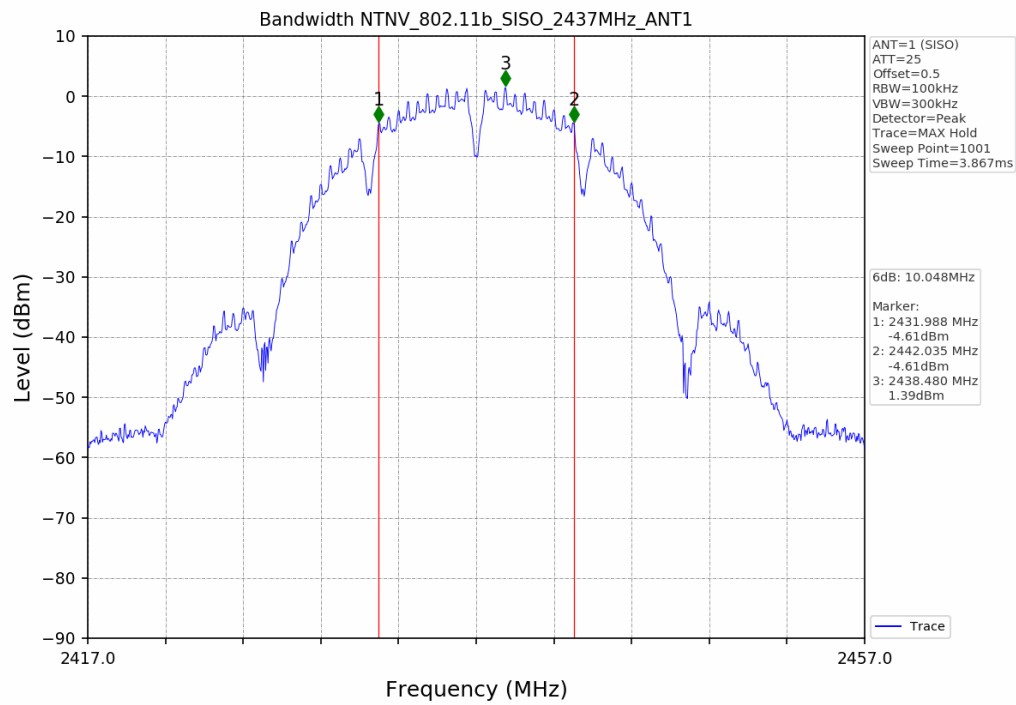


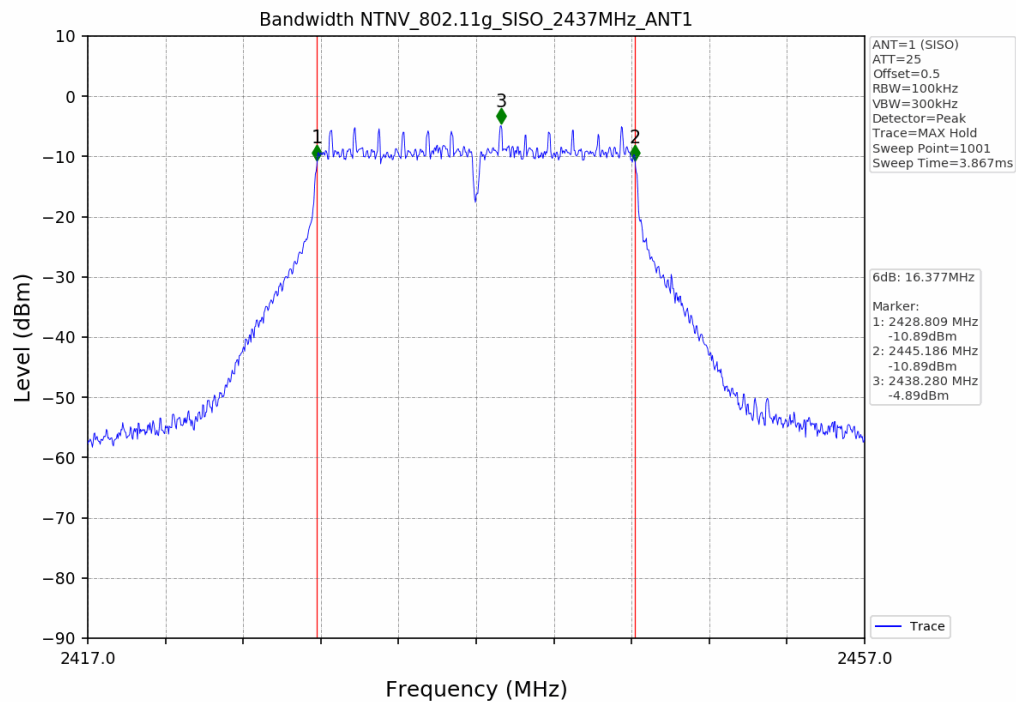
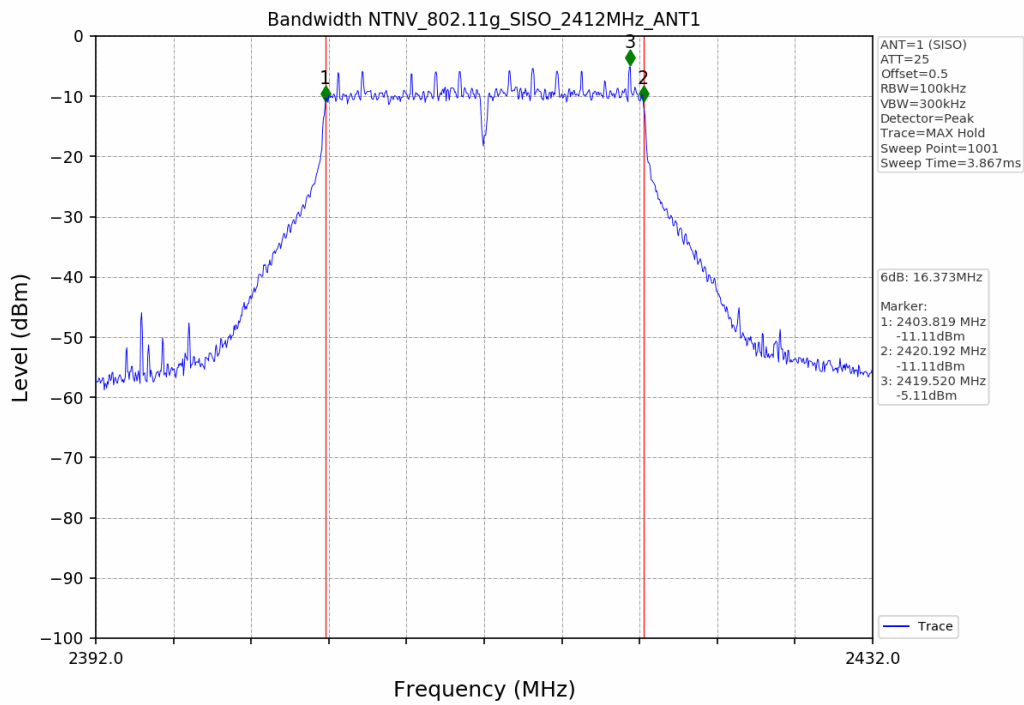


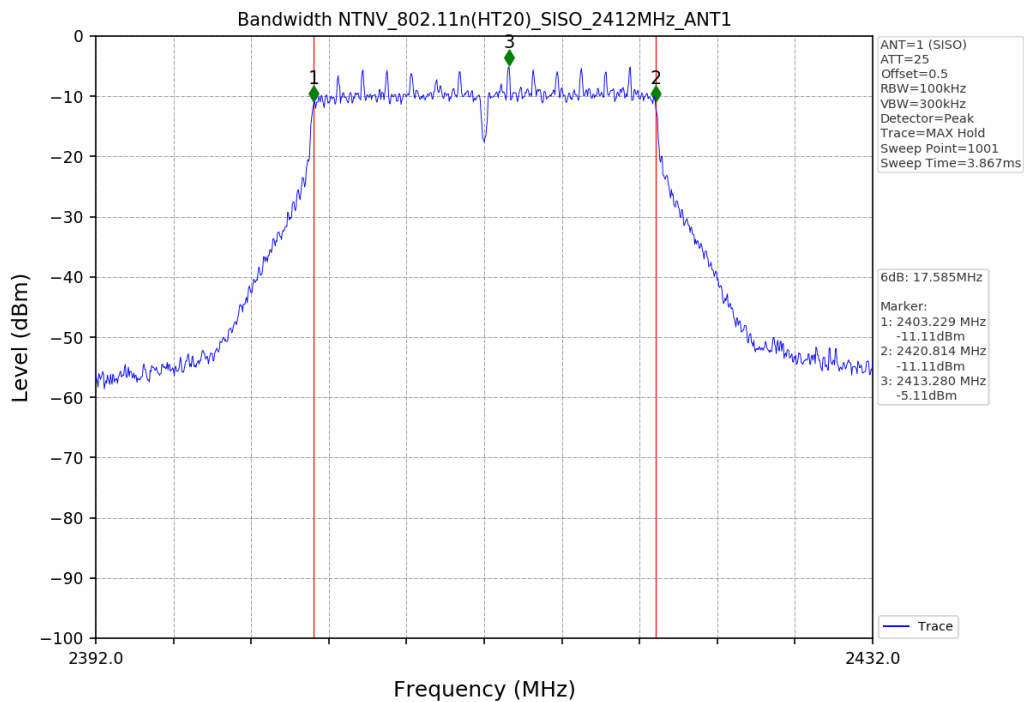
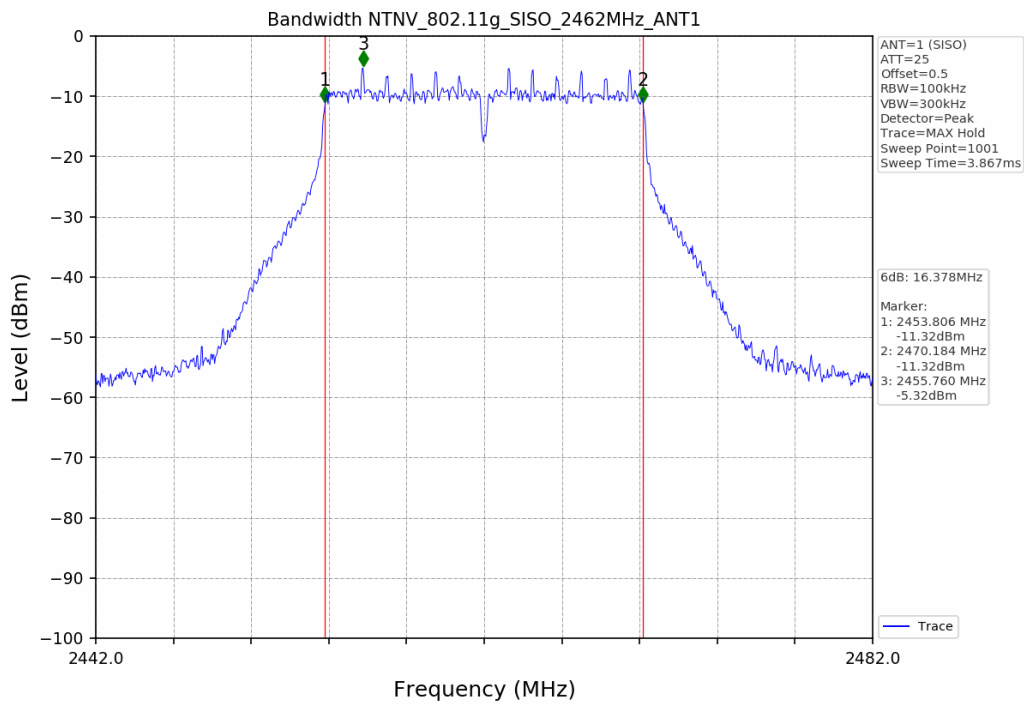


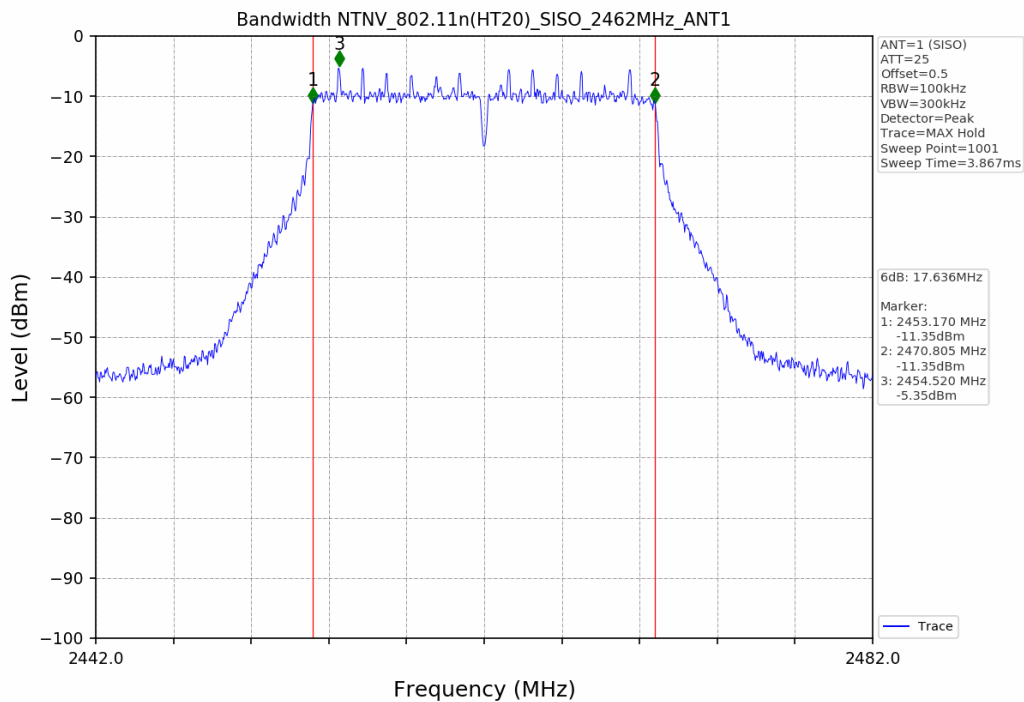
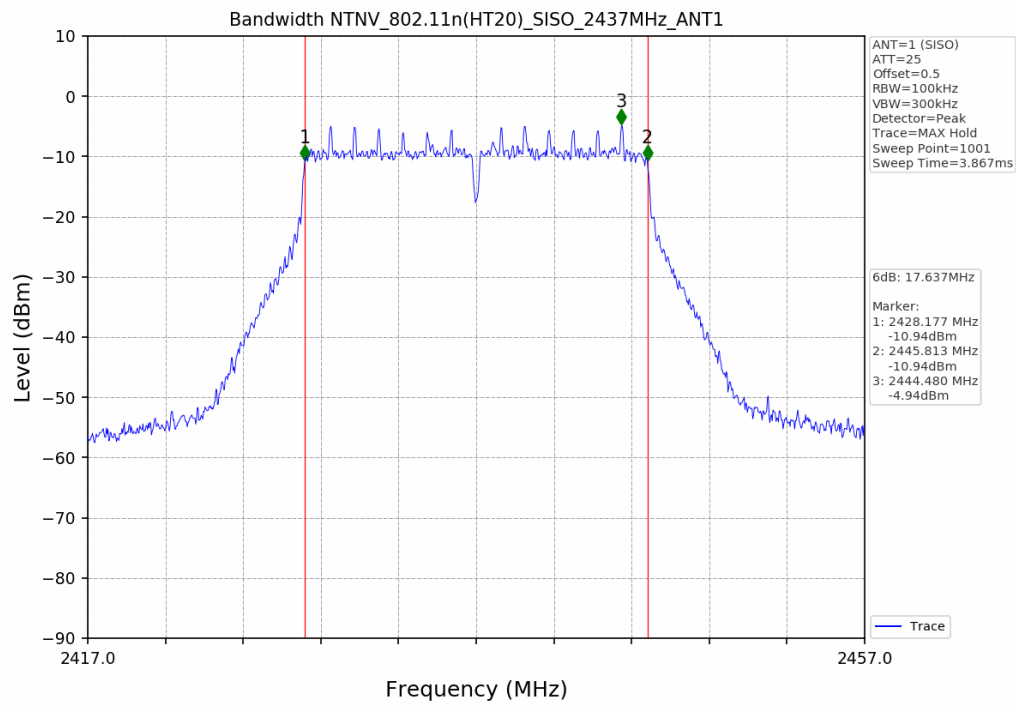
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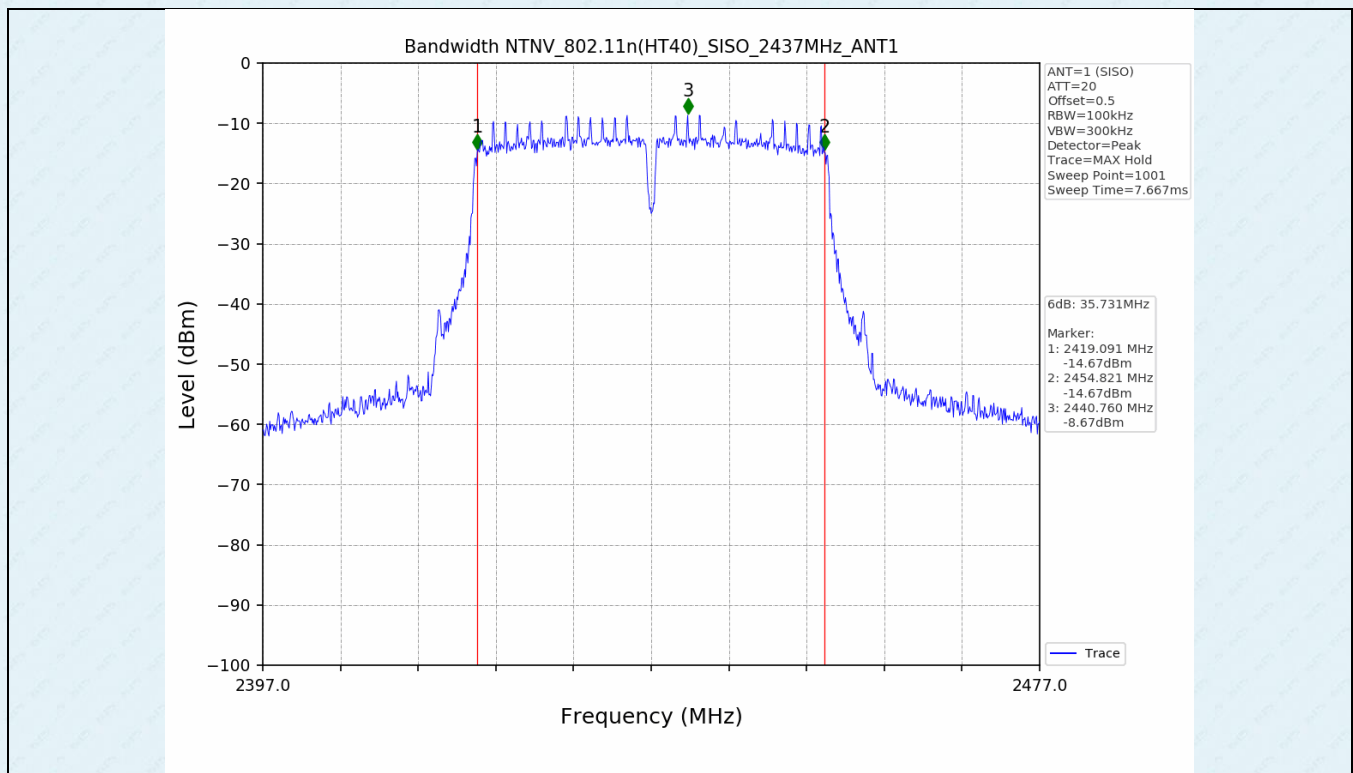
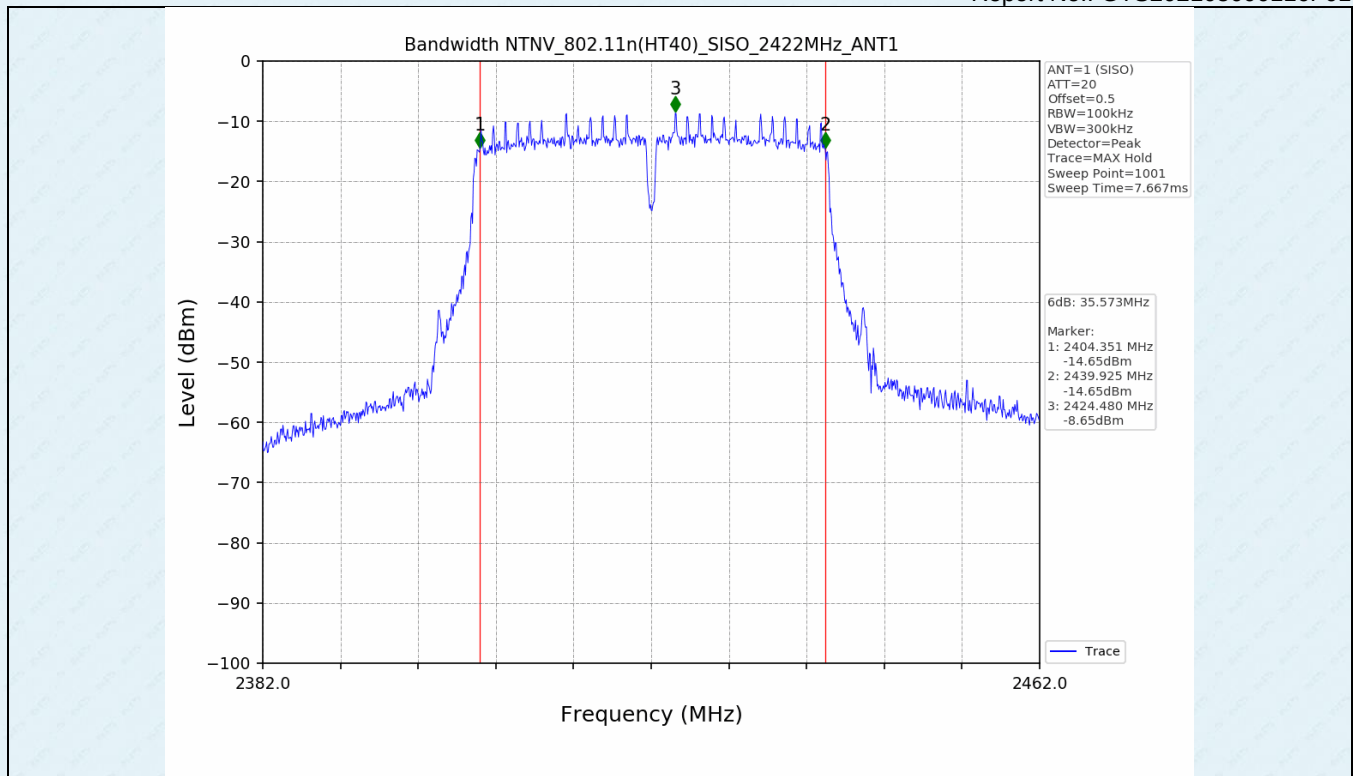


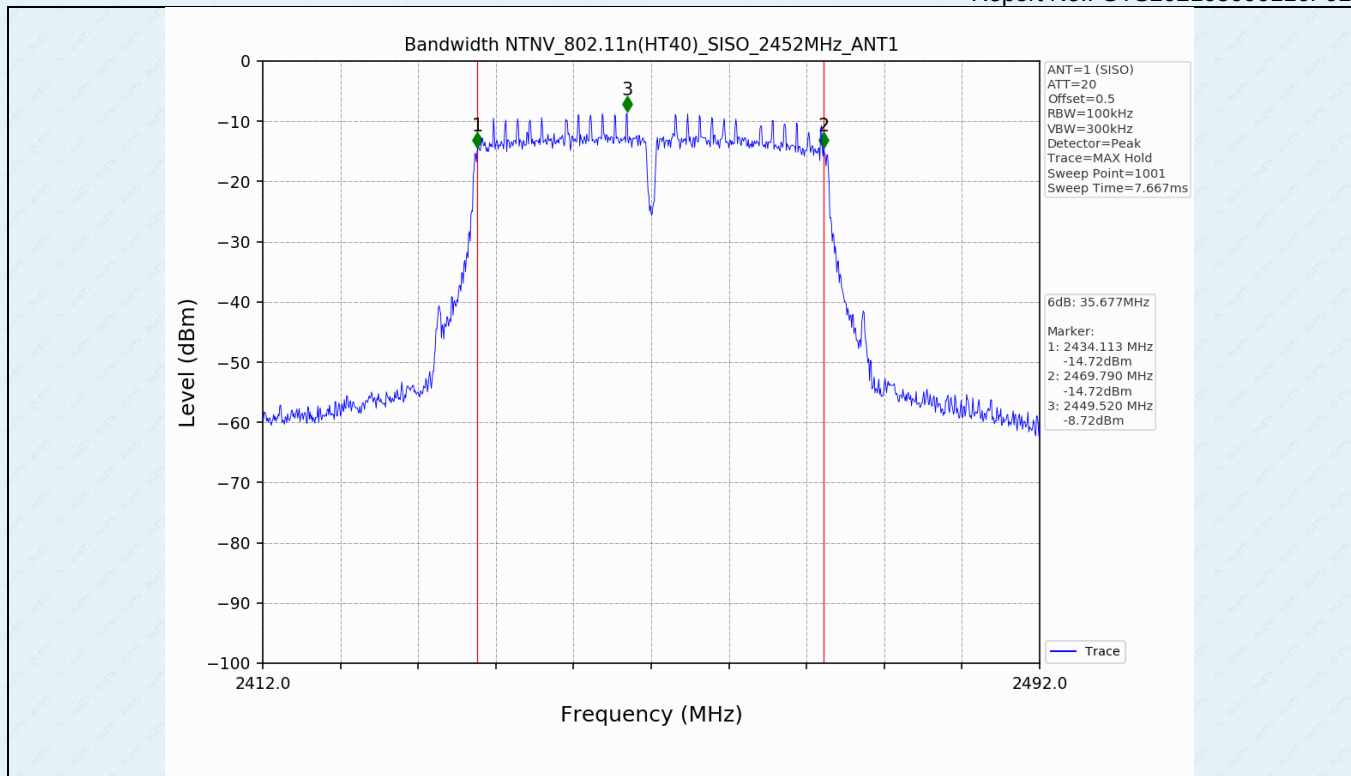






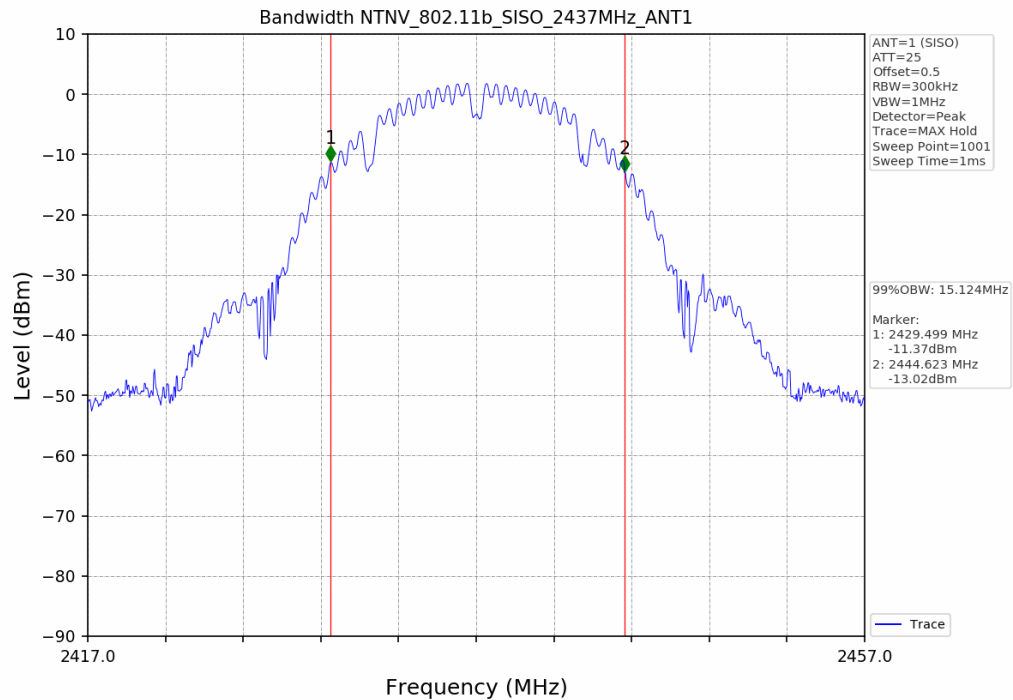
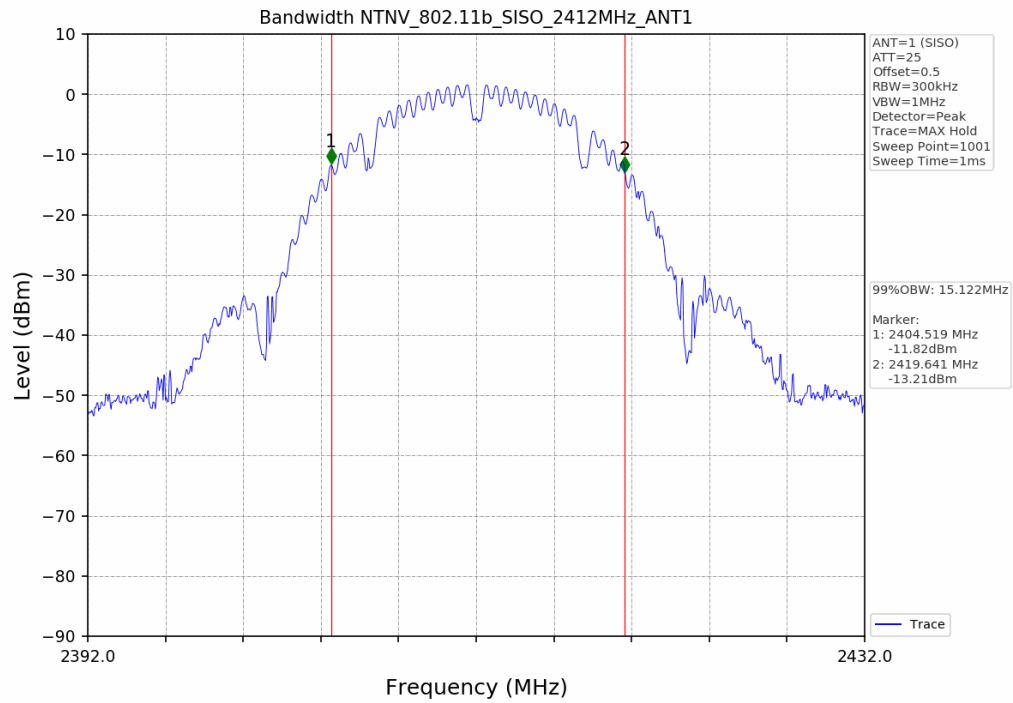


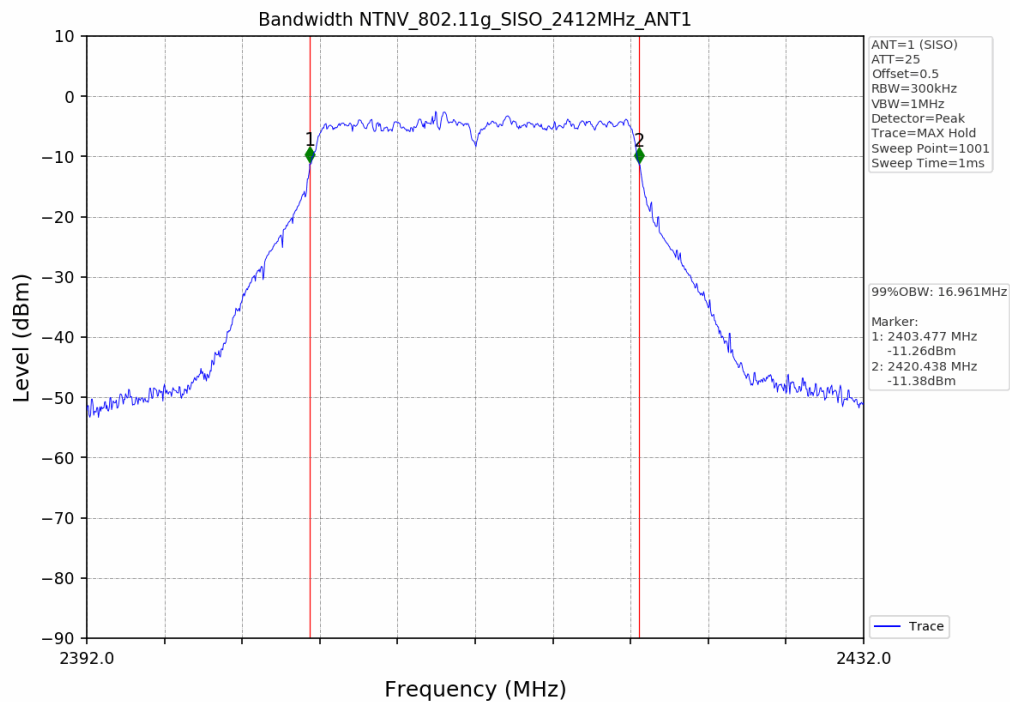
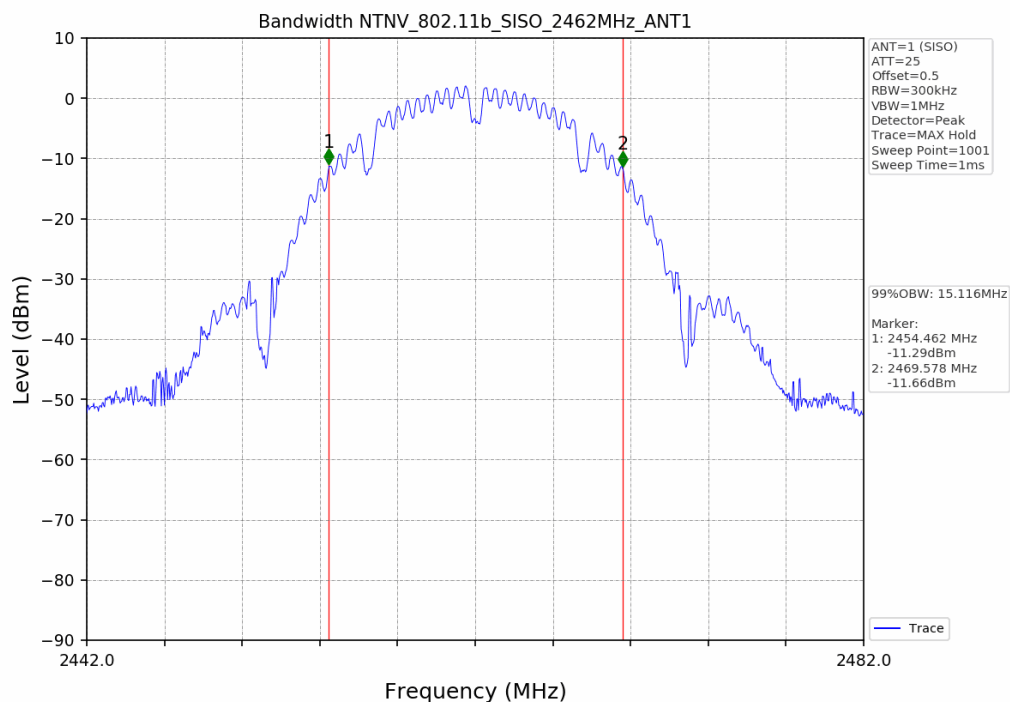


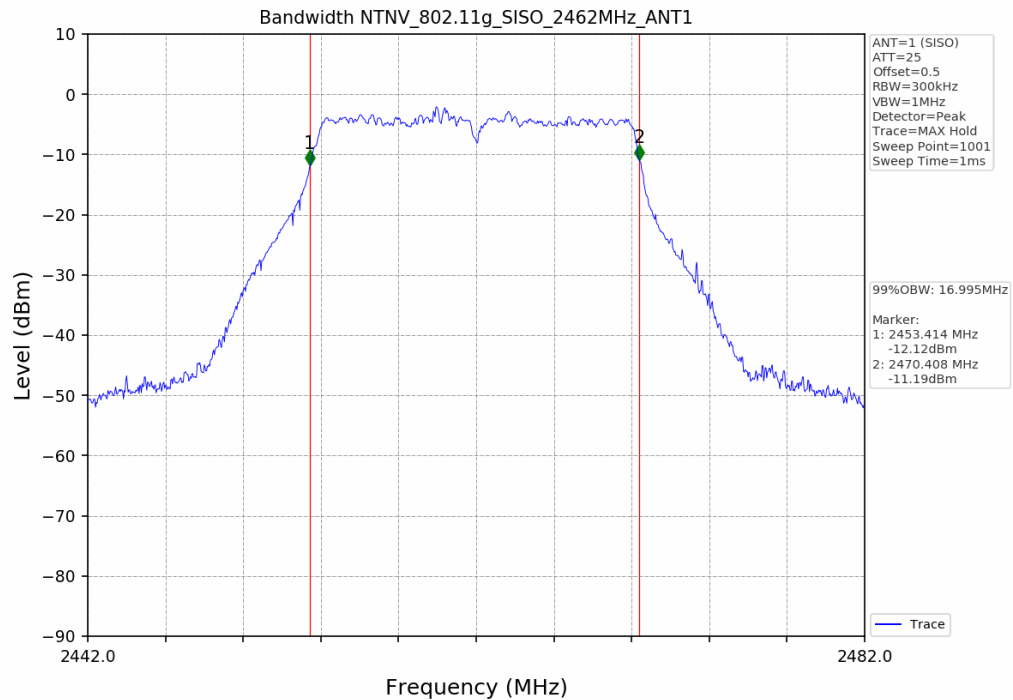
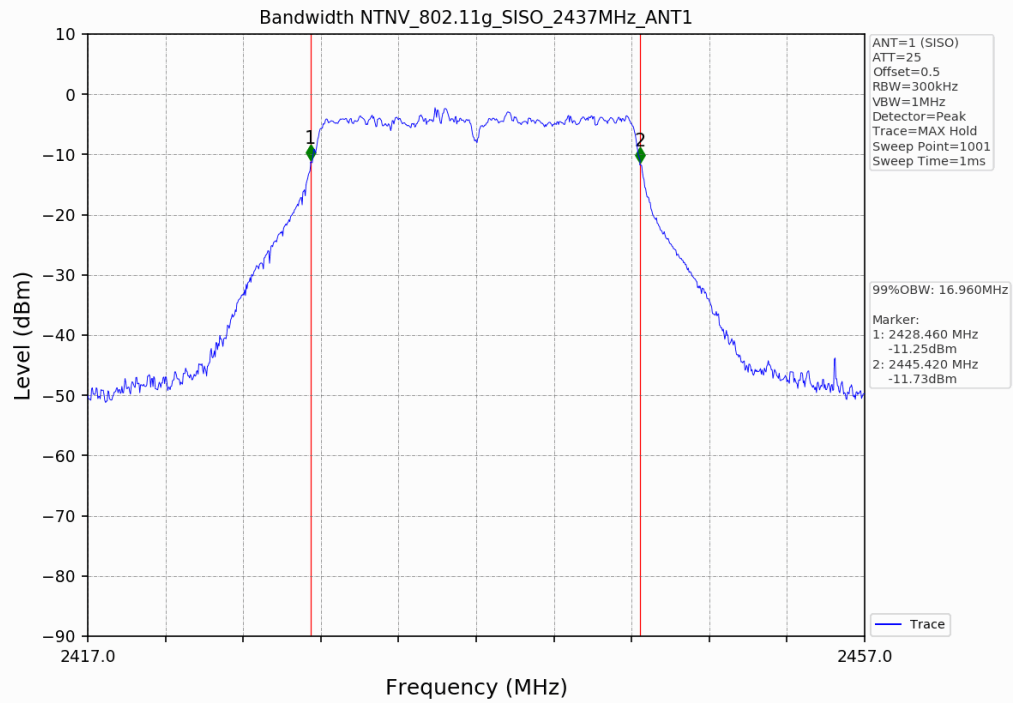


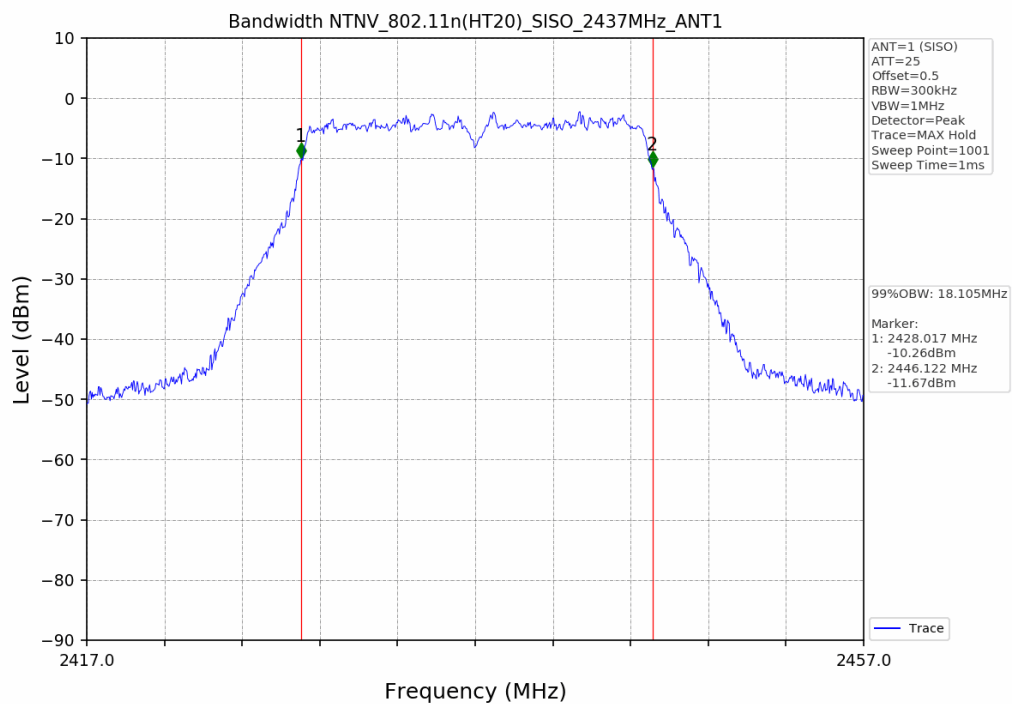
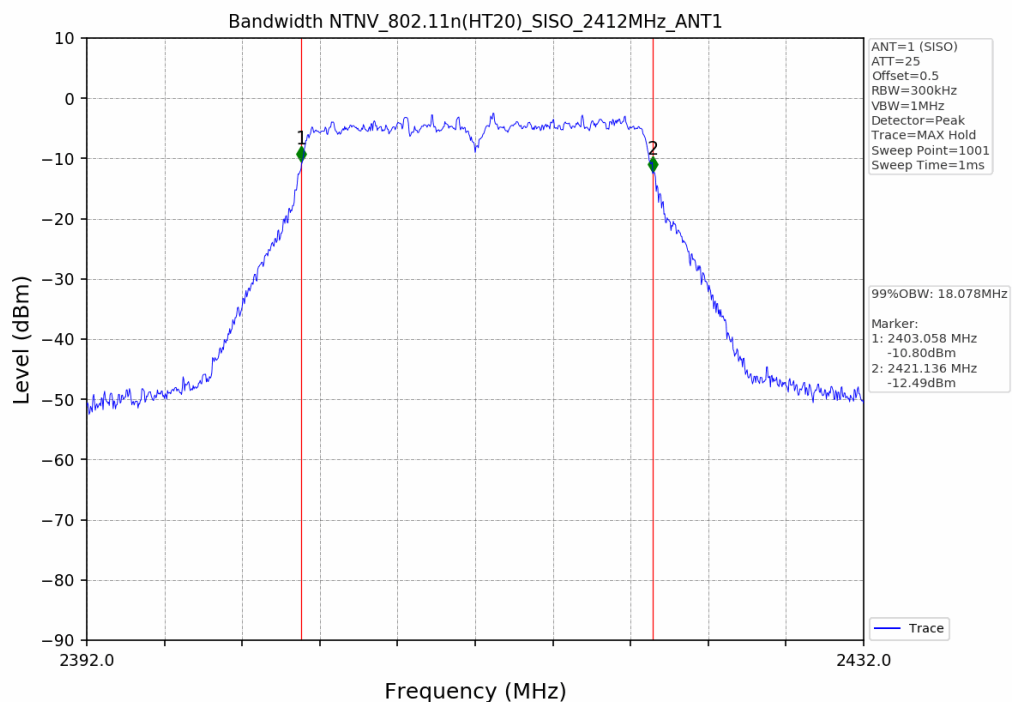
2.3 Test Graph - 99% Occupied Bandwidth

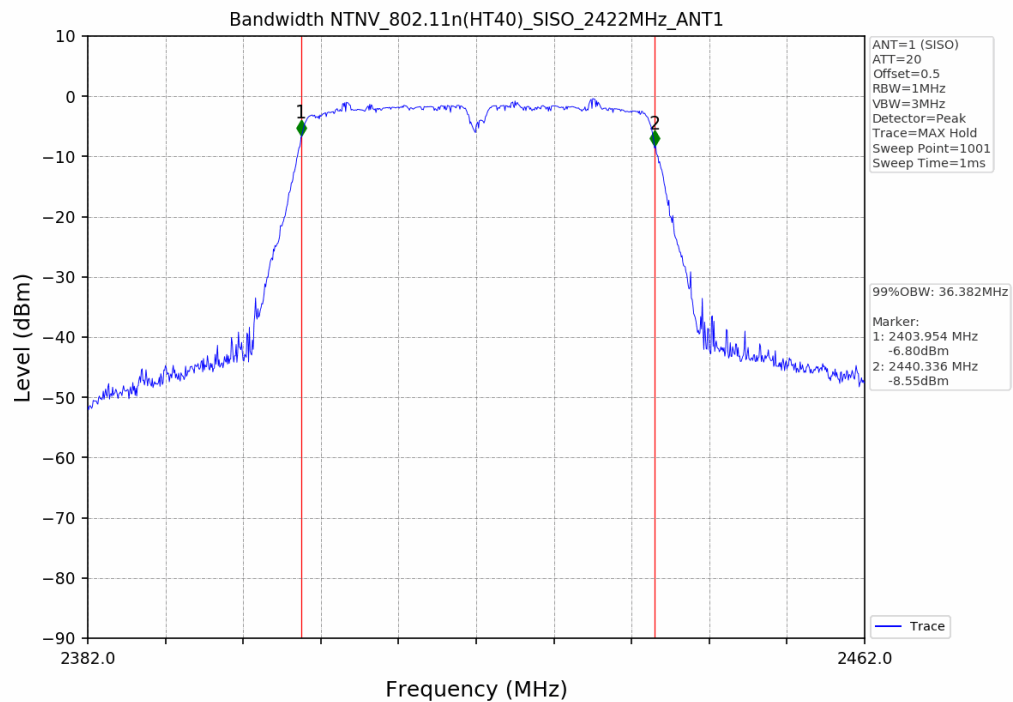
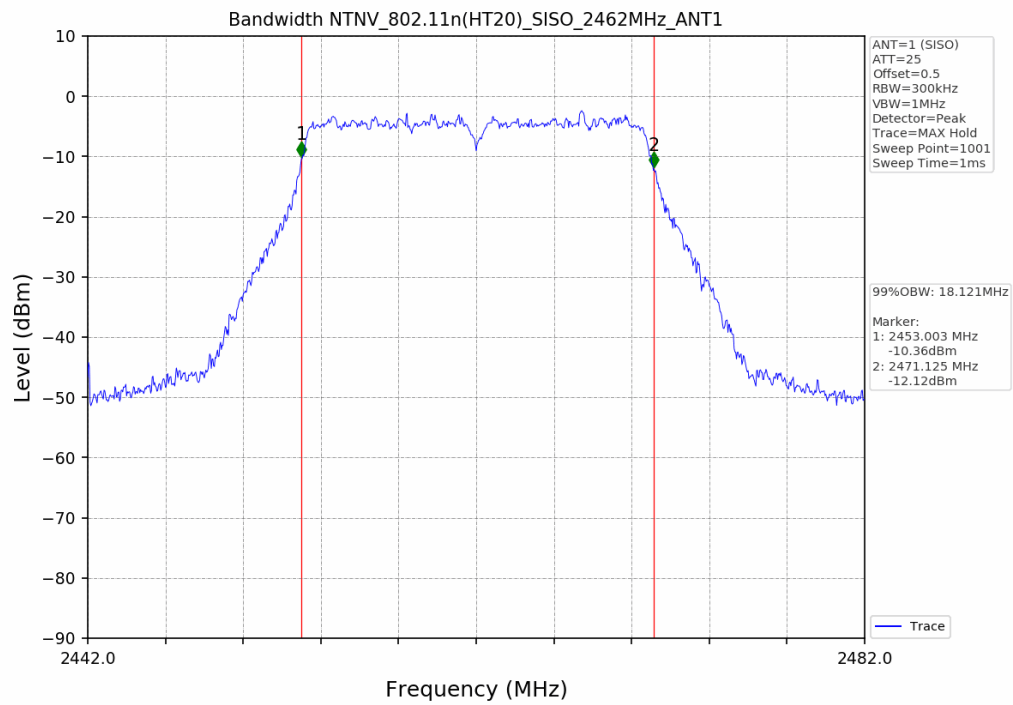
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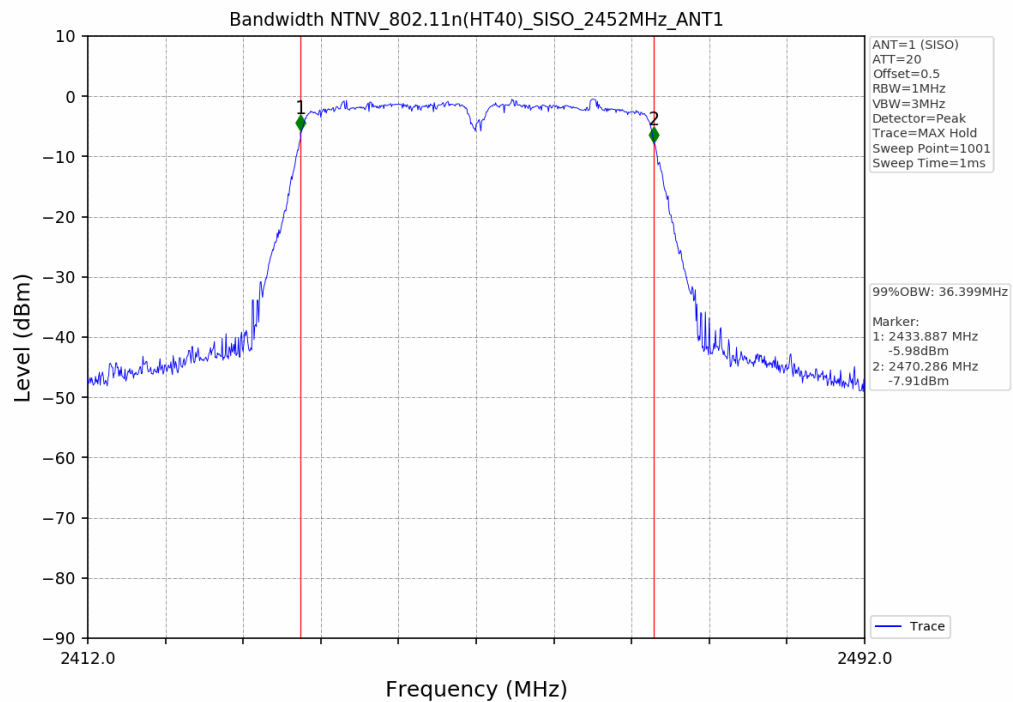
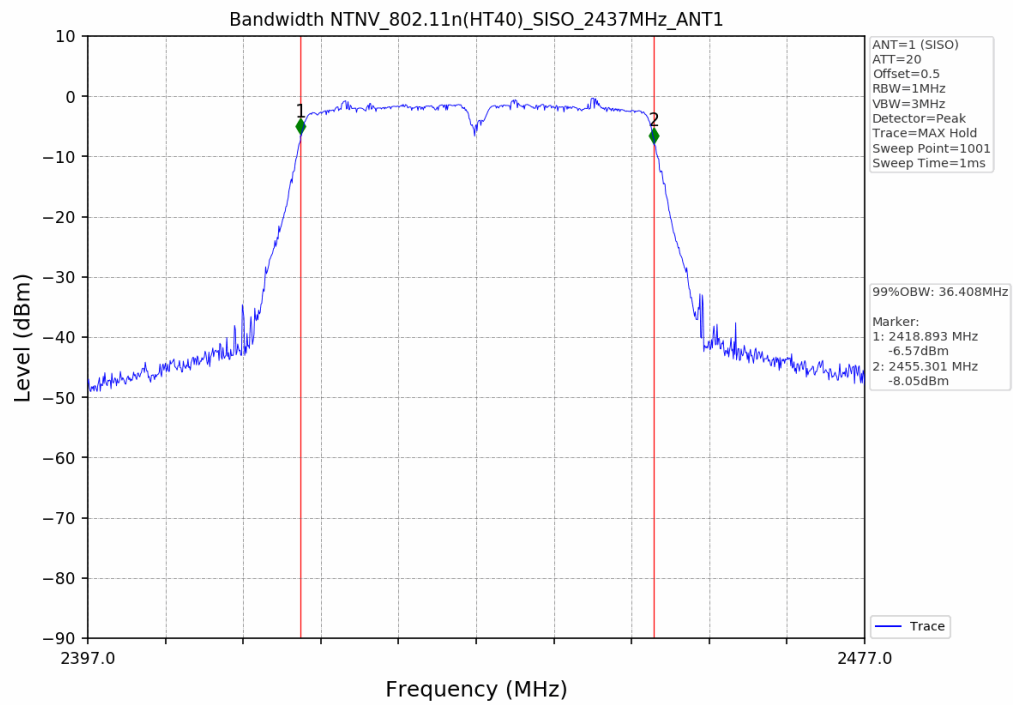




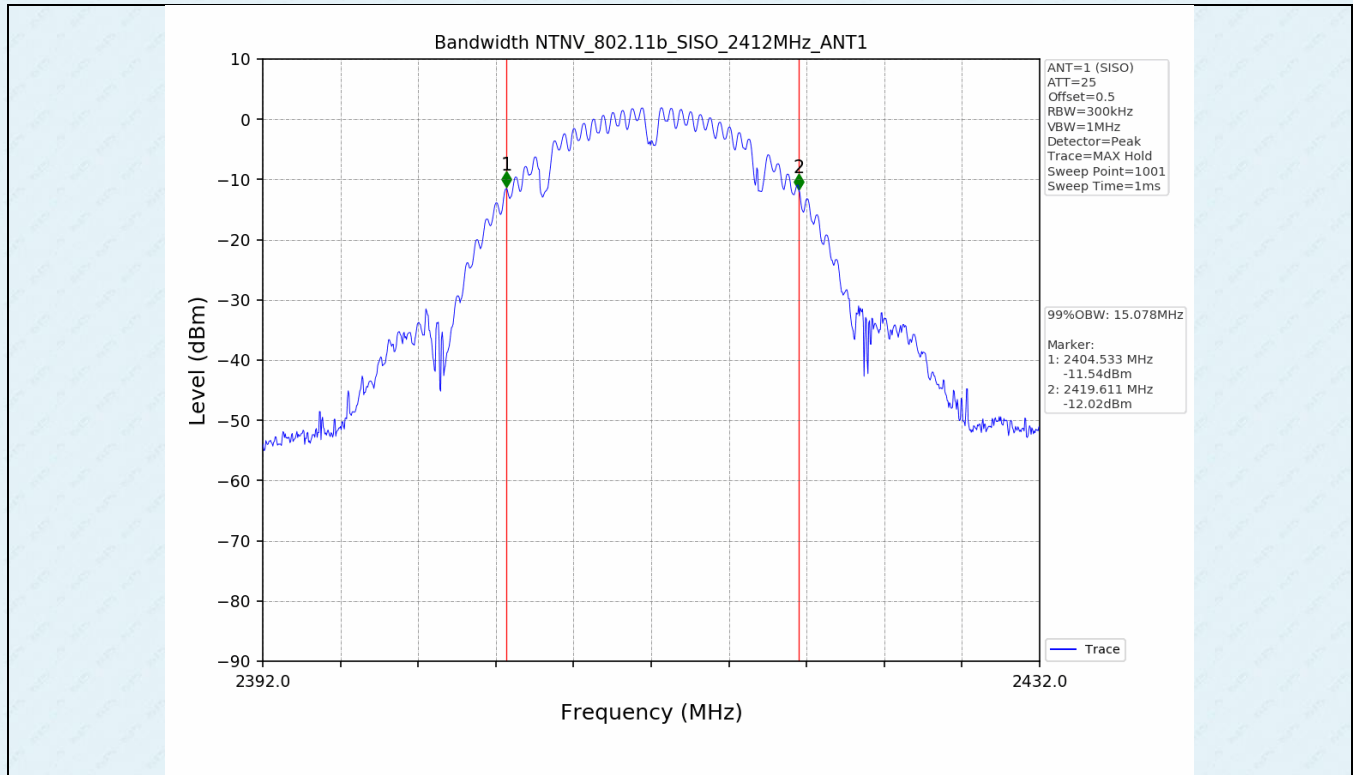


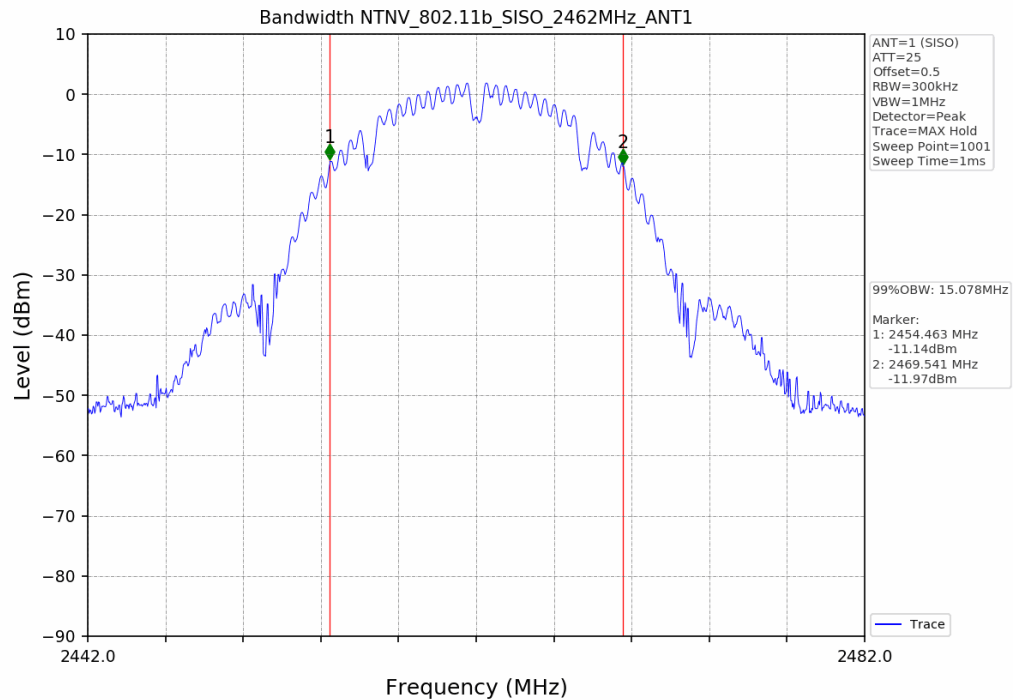
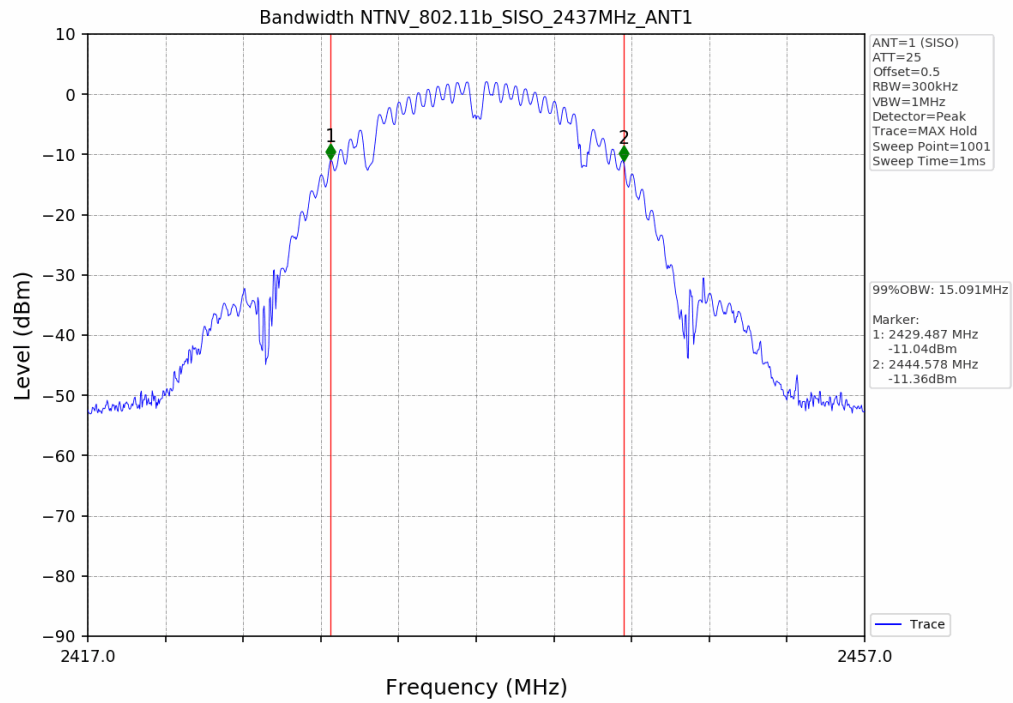


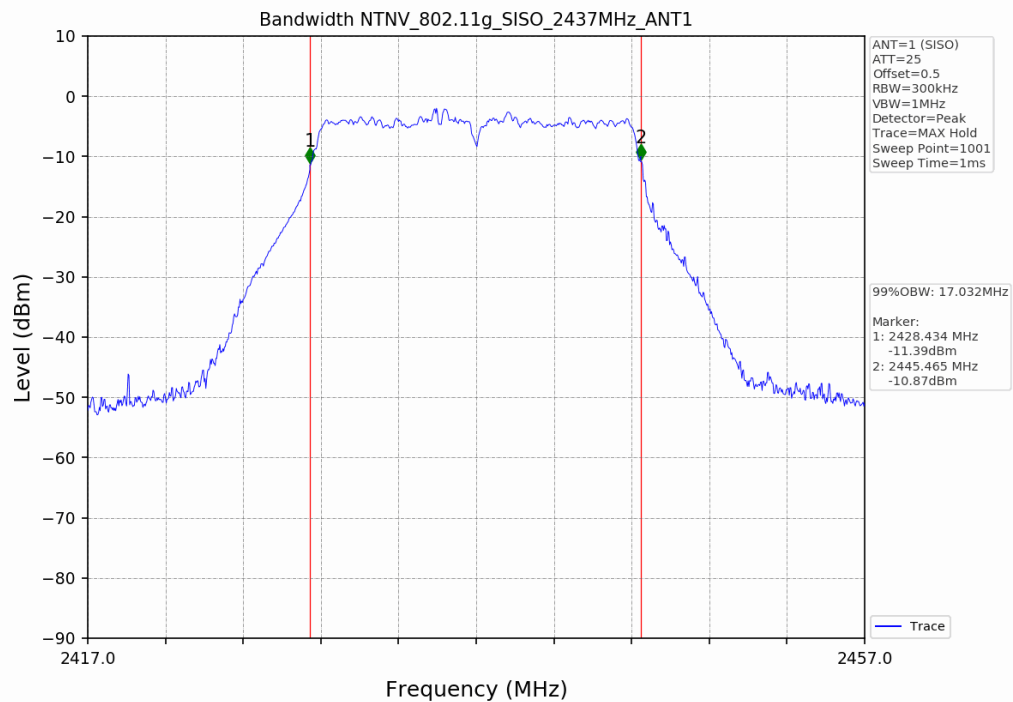
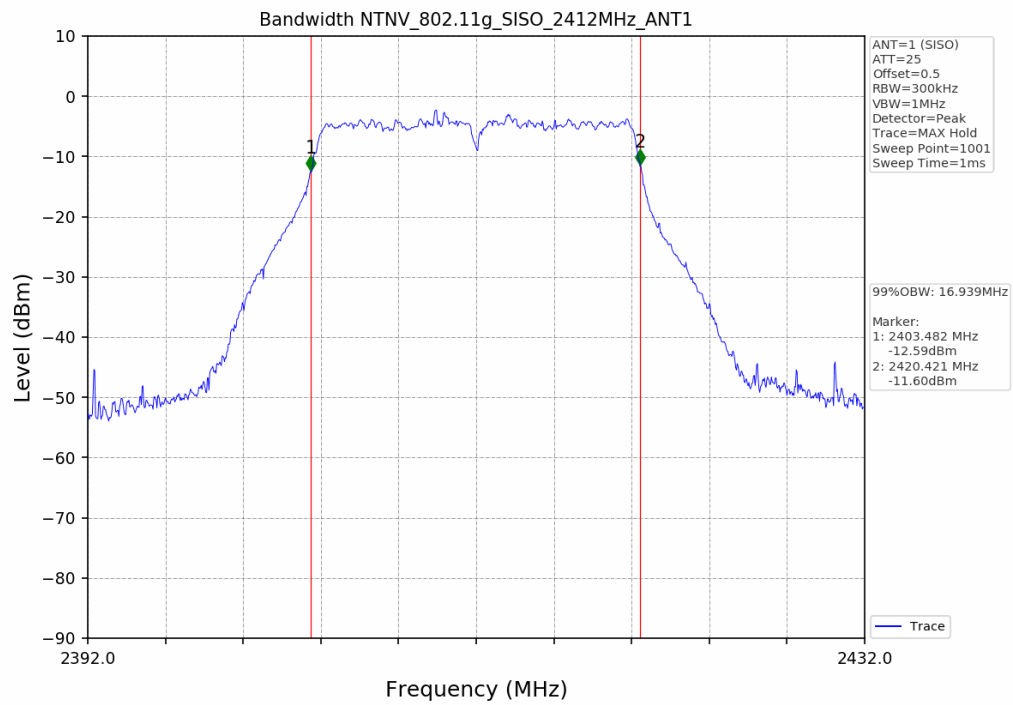


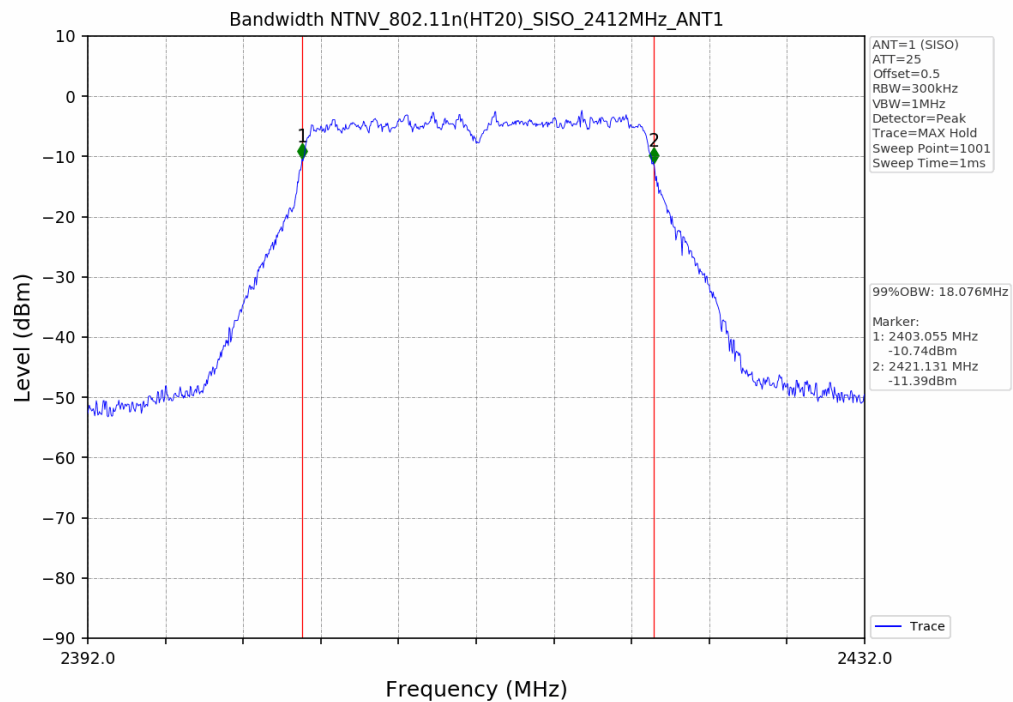
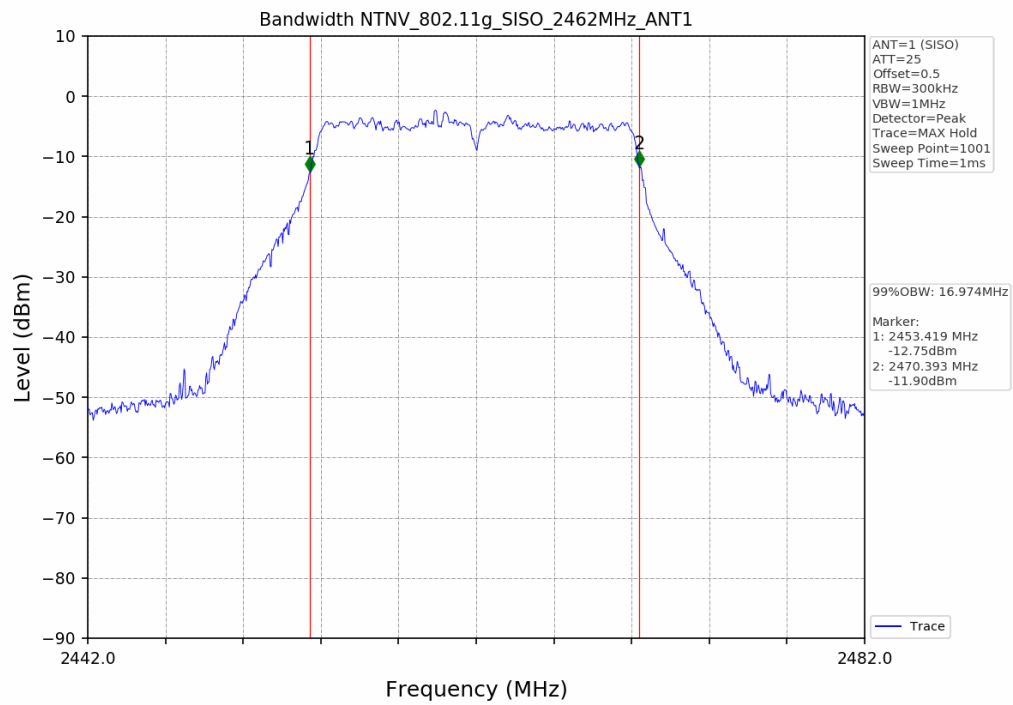


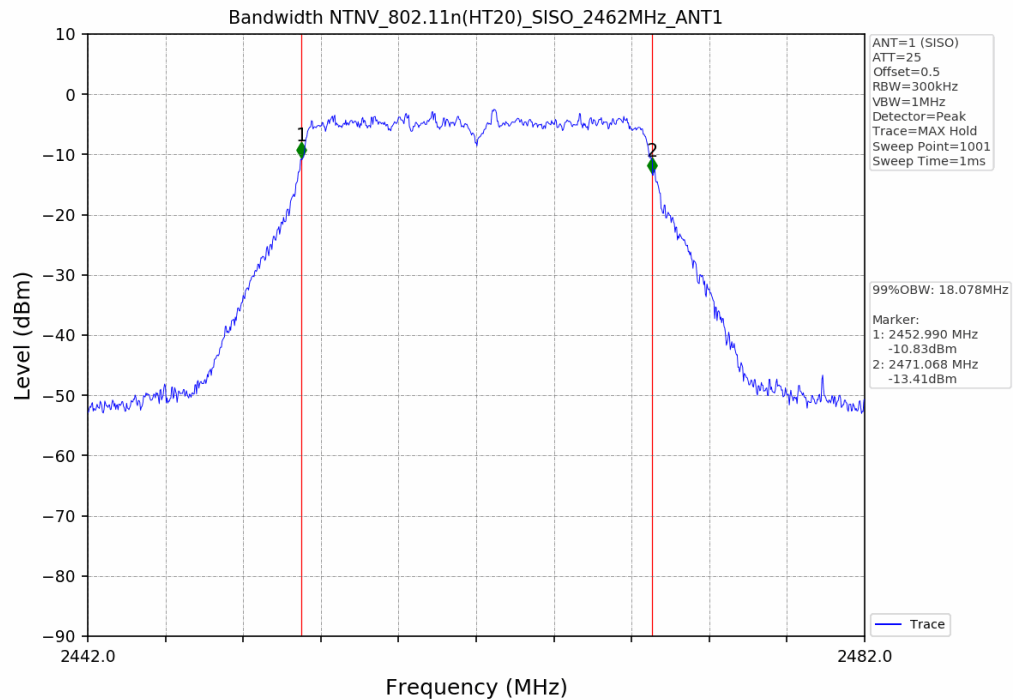
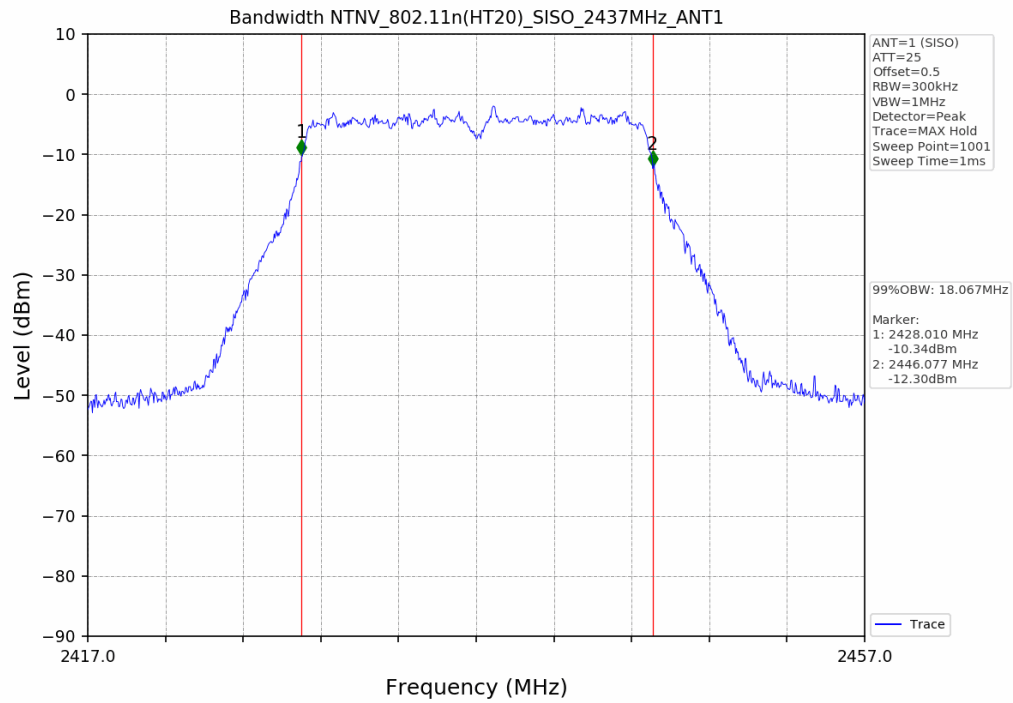
ANT 2:

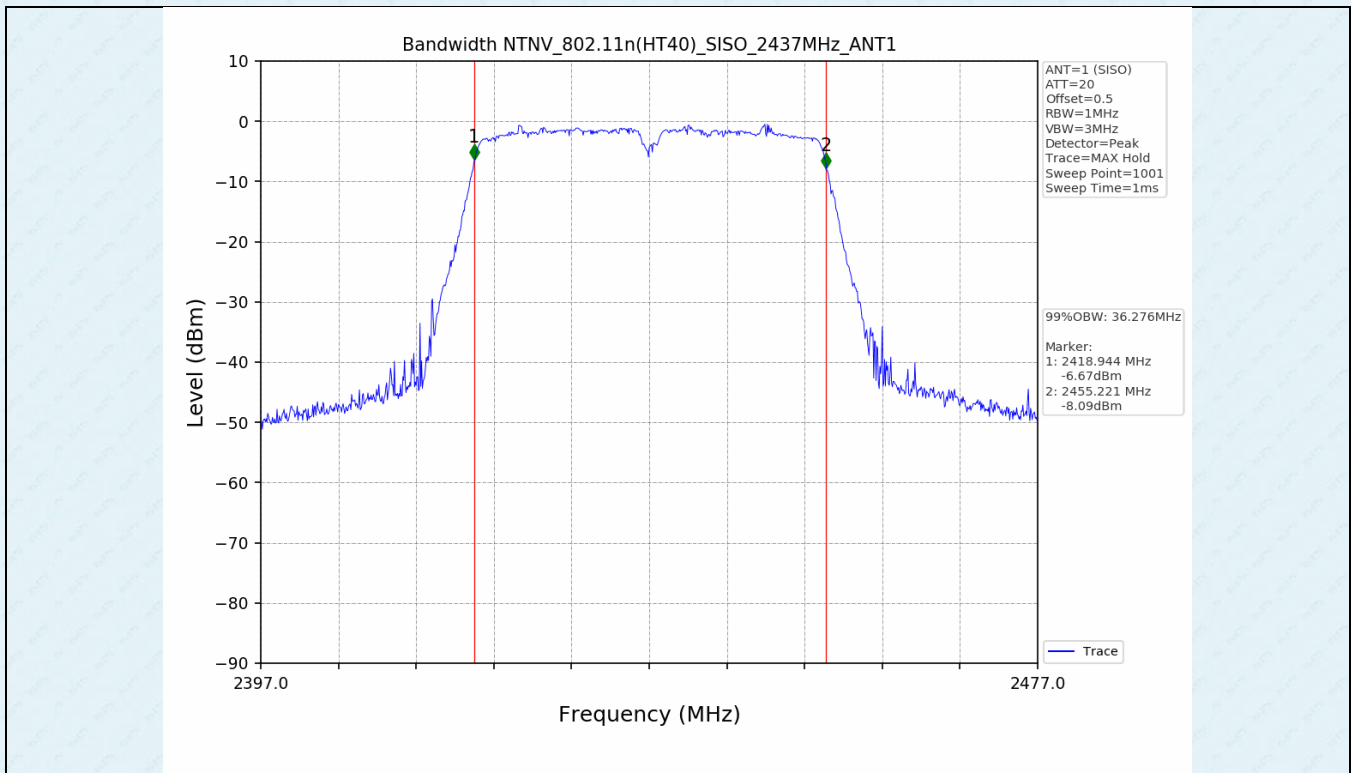
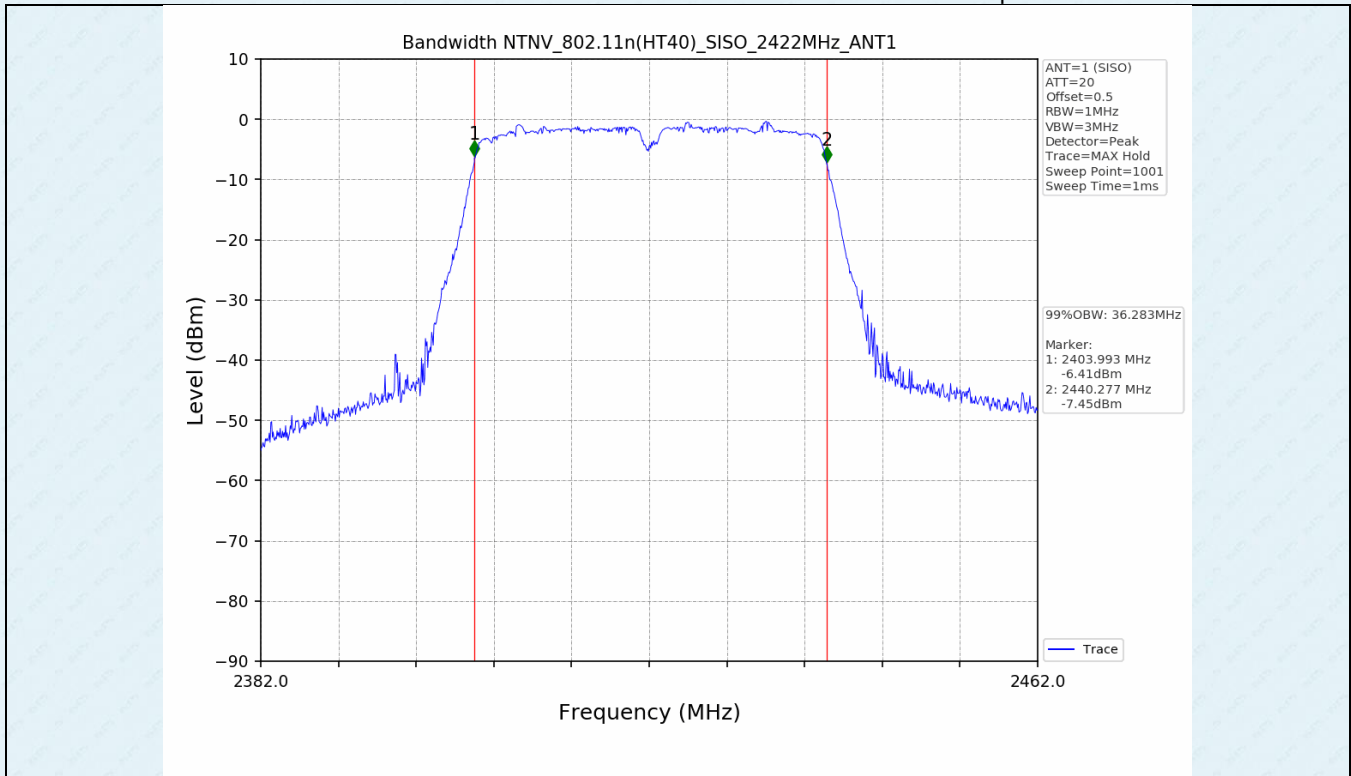


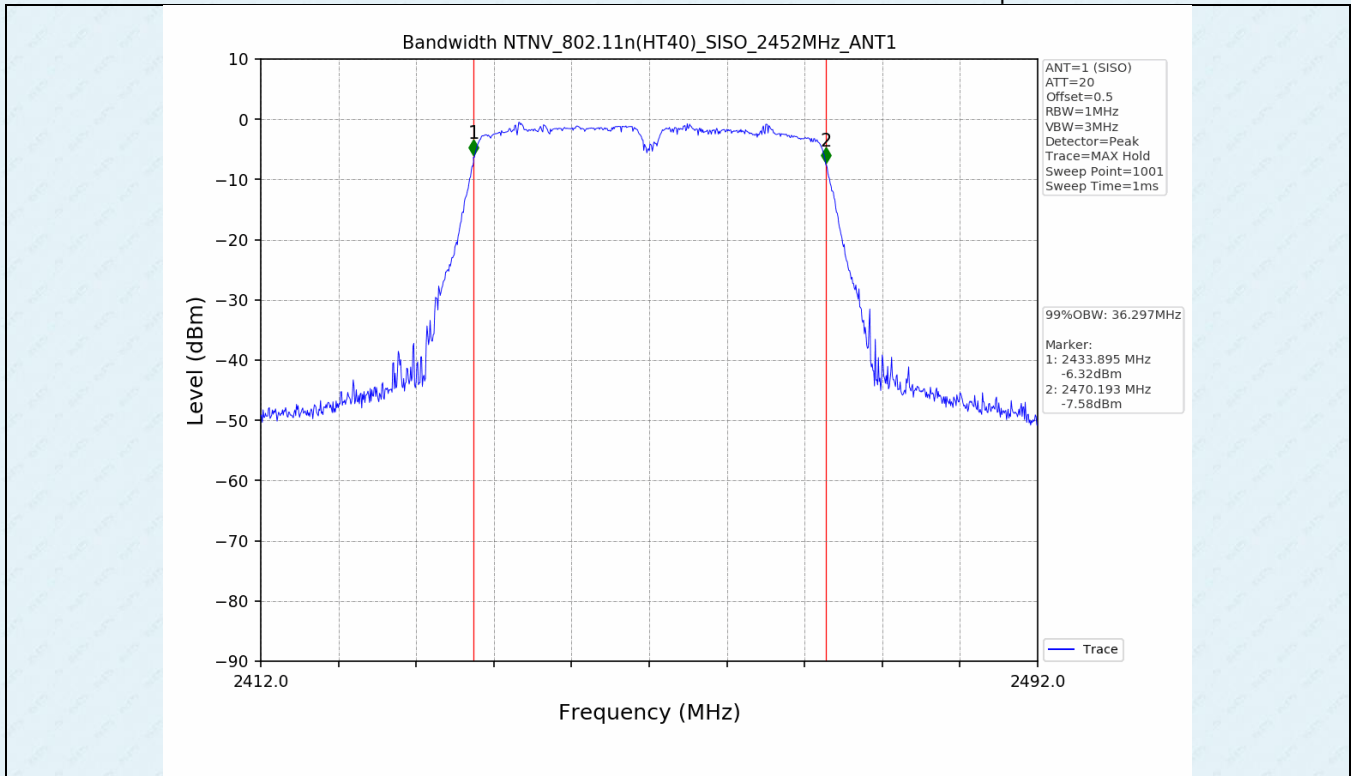












3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	12.79	30	PASS
	2437	SISO	13.08	30	PASS
	2462	SISO	13.17	30	PASS
802.11g	2412	SISO	13.52	30	PASS
	2437	SISO	13.87	30	PASS
	2462	SISO	13.81	30	PASS
802.11n(HT20)	2412	SISO	13.60	30	PASS
	2437	SISO	13.88	30	PASS
	2462	SISO	13.83	30	PASS
802.11n(HT40)	2422	SISO	13.10	30	PASS
	2437	SISO	13.15	30	PASS
	2452	SISO	13.21	30	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 2		
802.11b	2412	SISO	13.19	30	PASS
	2437	SISO	13.37	30	PASS
	2462	SISO	13.12	30	PASS
802.11g	2412	SISO	13.56	30	PASS
	2437	SISO	13.87	30	PASS
	2462	SISO	13.45	30	PASS
802.11n(HT20)	2412	SISO	13.65	30	PASS
	2437	SISO	13.96	30	PASS
	2462	SISO	13.52	30	PASS
802.11n(HT40)	2422	SISO	13.16	30	PASS
	2437	SISO	13.13	30	PASS
	2452	SISO	13.06	30	PASS

Test Mode	Frequency (MHz)	Tx Type	Peak Output Power (dBm)	Limits (dBm)	Verdict
802.11n(HT20)	2412	MIMO	16.64	30	PASS
	2437	MIMO	16.93	30	PASS
	2462	MIMO	16.69	30	PASS
802.11n(HT40)	2422	MIMO	16.14	30	PASS
	2437	MIMO	16.15	30	PASS
	2452	MIMO	16.45	30	PASS

4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-4.72	≤8	PASS
	2437	SISO	-5.88	≤8	PASS
	2462	SISO	-6.16	≤8	PASS
802.11g	2412	SISO	-21.38	≤8	PASS
	2437	SISO	-21.13	≤8	PASS
	2462	SISO	-20.97	≤8	PASS
802.11n(HT20)	2412	SISO	-20.82	≤8	PASS
	2437	SISO	-19.30	≤8	PASS
	2462	SISO	-20.24	≤8	PASS
802.11n(HT40)	2422	SISO	-23.38	≤8	PASS
	2437	SISO	-23.38	≤8	PASS
	2452	SISO	-23.65	≤8	PASS

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-4.35	≤8	PASS
	2437	SISO	-4.15	≤8	PASS
	2462	SISO	-6.04	≤8	PASS
802.11g	2412	SISO	-20.97	≤8	PASS
	2437	SISO	-20.99	≤8	PASS
	2462	SISO	-21.48	≤8	PASS
802.11n(HT20)	2412	SISO	-20.48	≤8	PASS
	2437	SISO	-20.40	≤8	PASS
	2462	SISO	-20.75	≤8	PASS
802.11n(HT40)	2422	SISO	-22.75	≤8	PASS
	2437	SISO	-22.77	≤8	PASS
	2452	SISO	-23.35	≤8	PASS

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
802.11n(HT20)	2412	MIMO	-17.9	≤8	PASS
	2437	MIMO	-16.8	≤8	PASS
	2462	MIMO	-17.48	≤8	PASS
802.11n(HT40)	2422	MIMO	-20.04	≤8	PASS
	2437	MIMO	-20.05	≤8	PASS
	2452	MIMO	-20.49	≤8	PASS

4.2 Test Graph

ANT 1:

