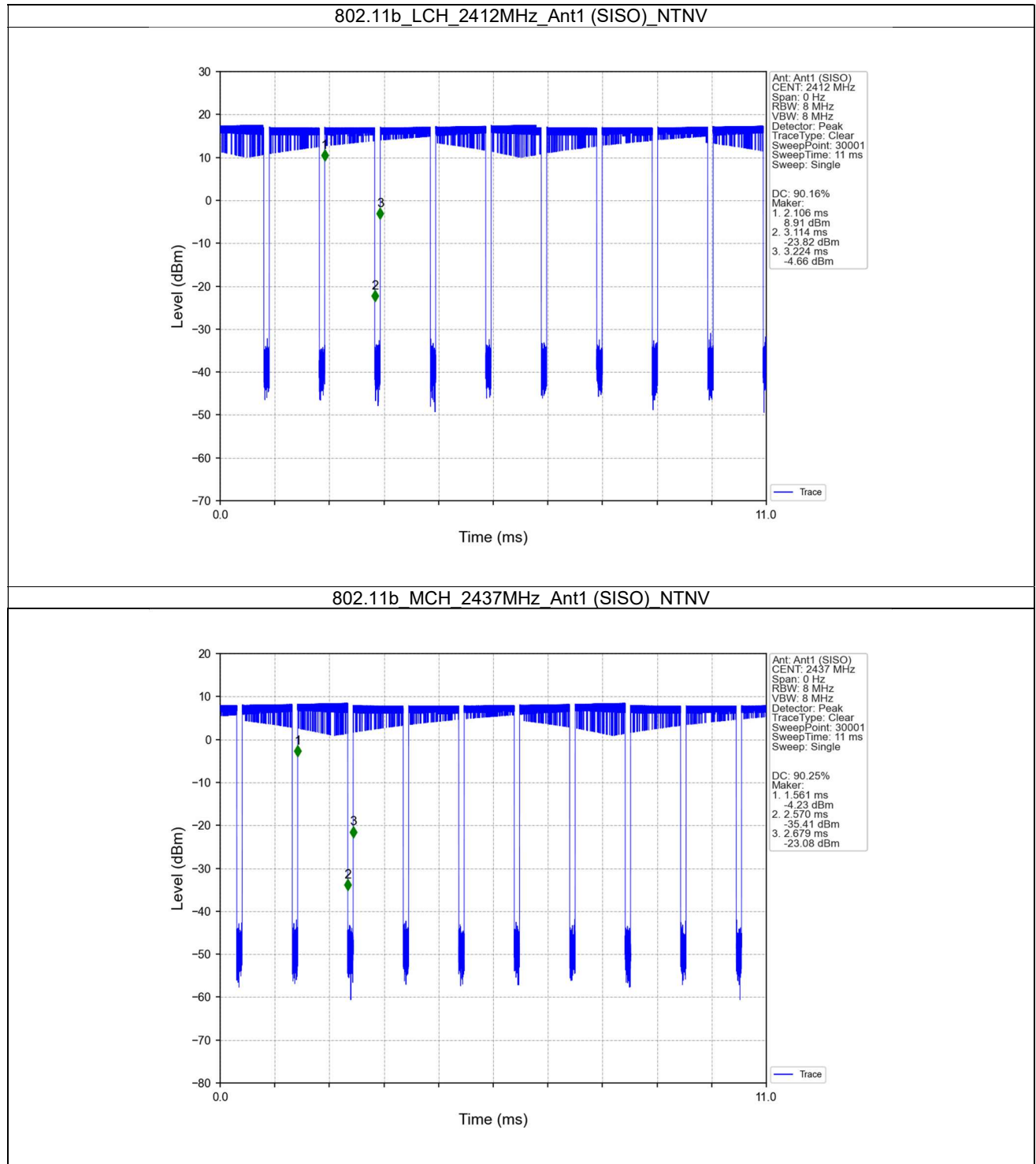


Product Name :Aroma Diffuser**Mode: THEPLUG-IN****FCC ID : 2BSFY-THEPLUG-IN****1. Duty Cycle****1.1 Test Result****1.1.1 Ant1**

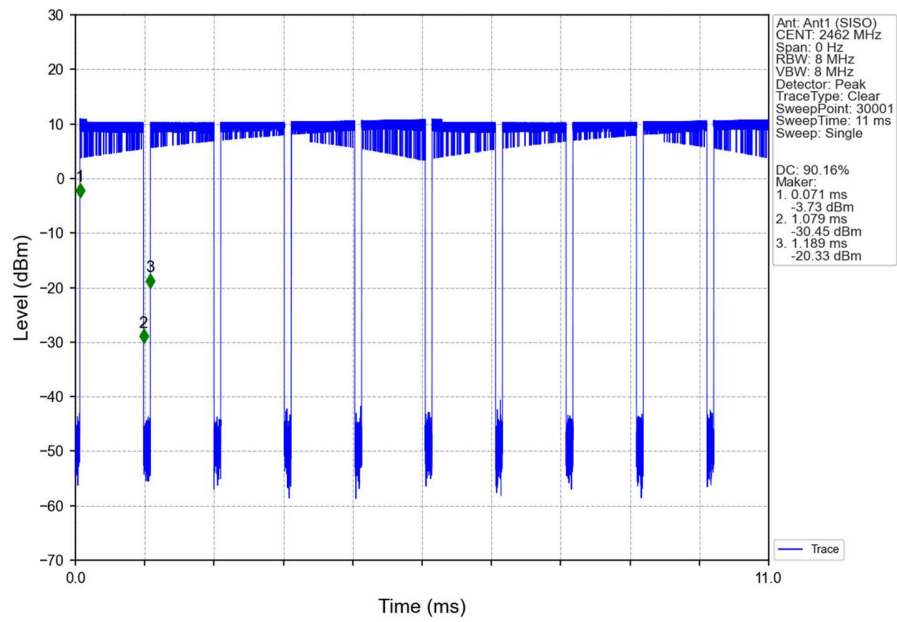
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.008	1.118	90.16	0.45	0.09
		2437	1.009	1.118	90.25	0.45	0.09
		2462	1.008	1.118	90.16	0.45	0.09
802.11g	SISO	2412	0.618	0.682	90.62	0.43	0.16
		2437	0.618	0.682	90.62	0.43	0.16
		2462	0.618	0.682	90.62	0.43	0.16
802.11n (HT20)	SISO	2412	0.614	0.679	90.43	0.44	0.28
		2437	0.614	0.679	90.43	0.44	0.25
		2462	0.614	0.679	90.43	0.44	0.25

1.2 Test Graph

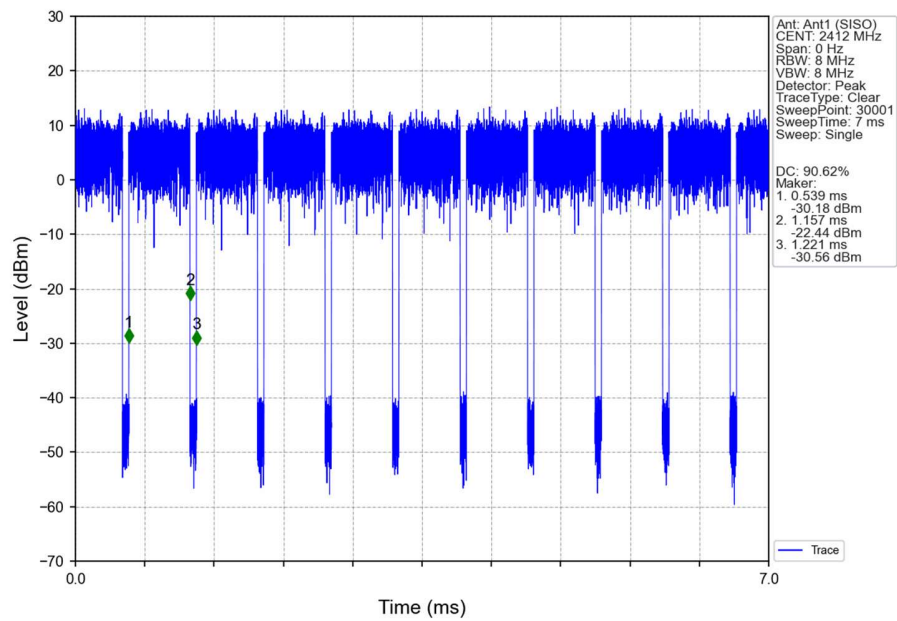
1.2.1 Ant1



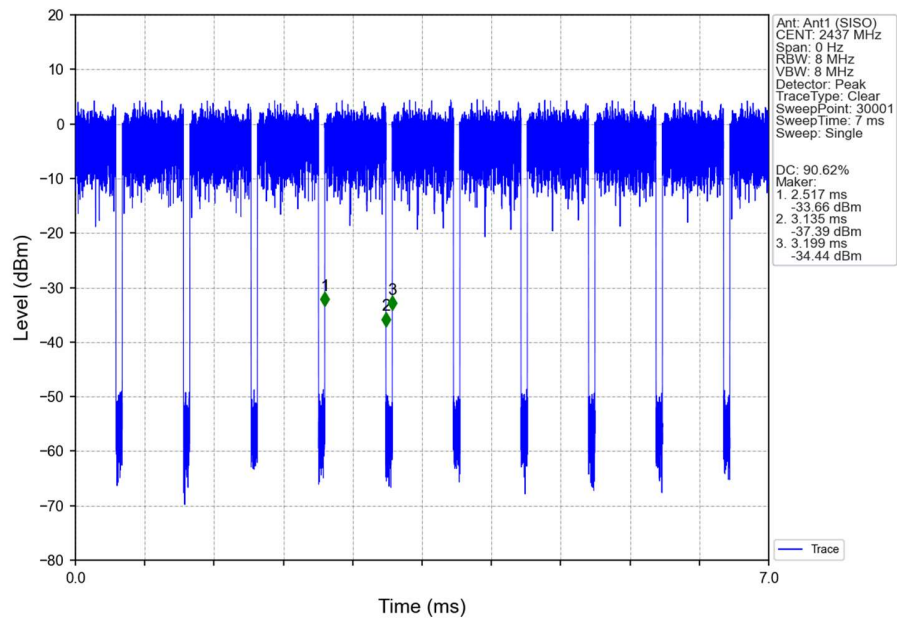
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



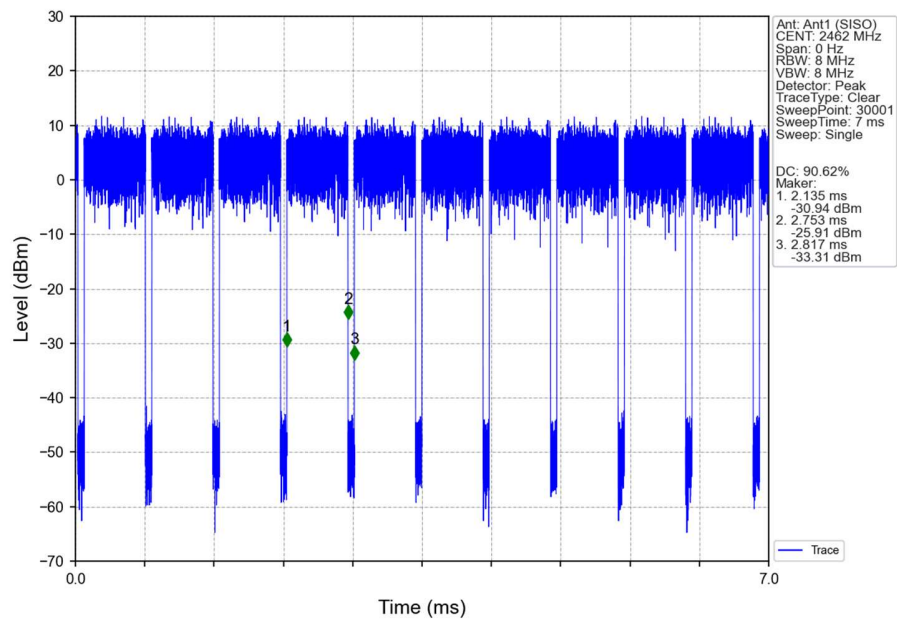
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

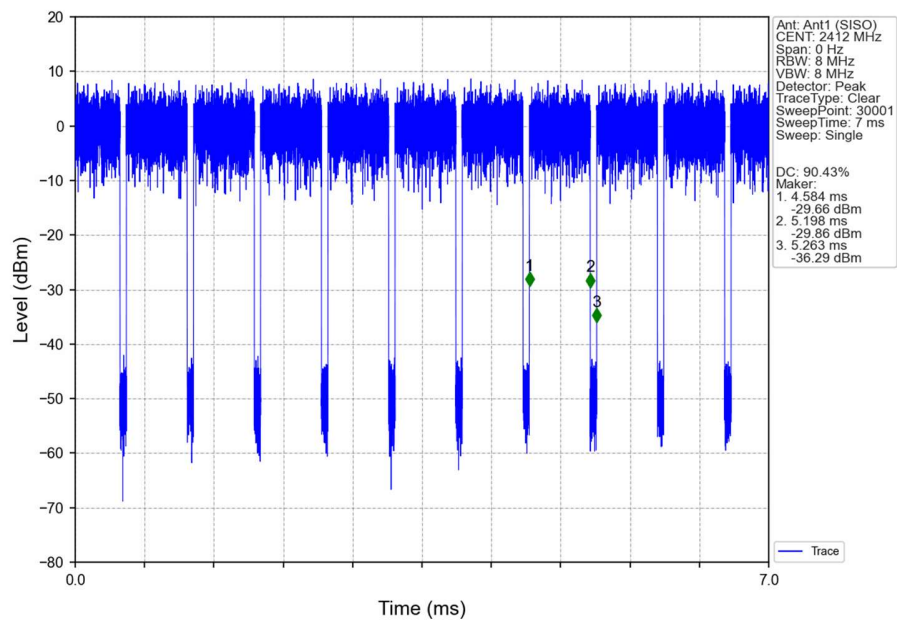


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

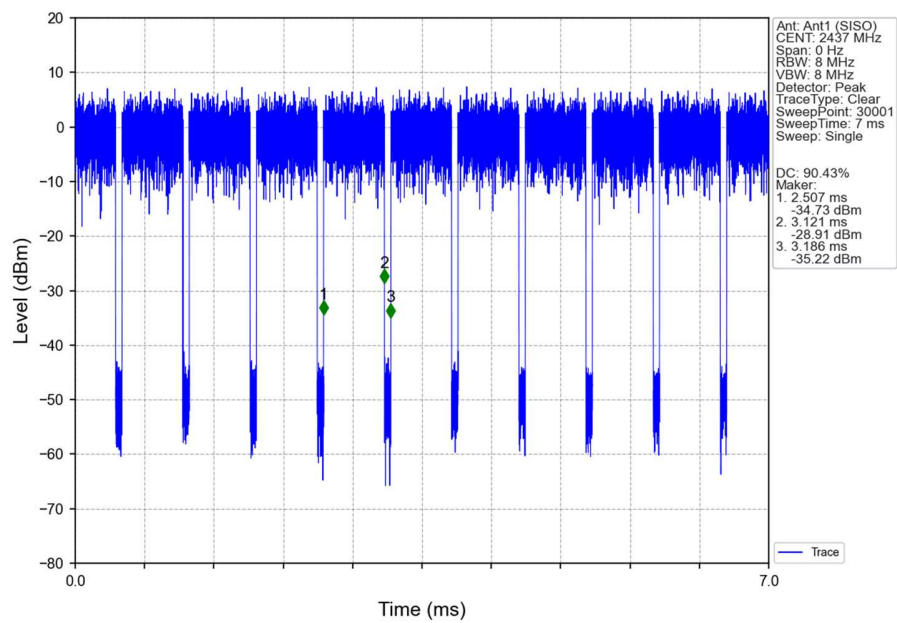


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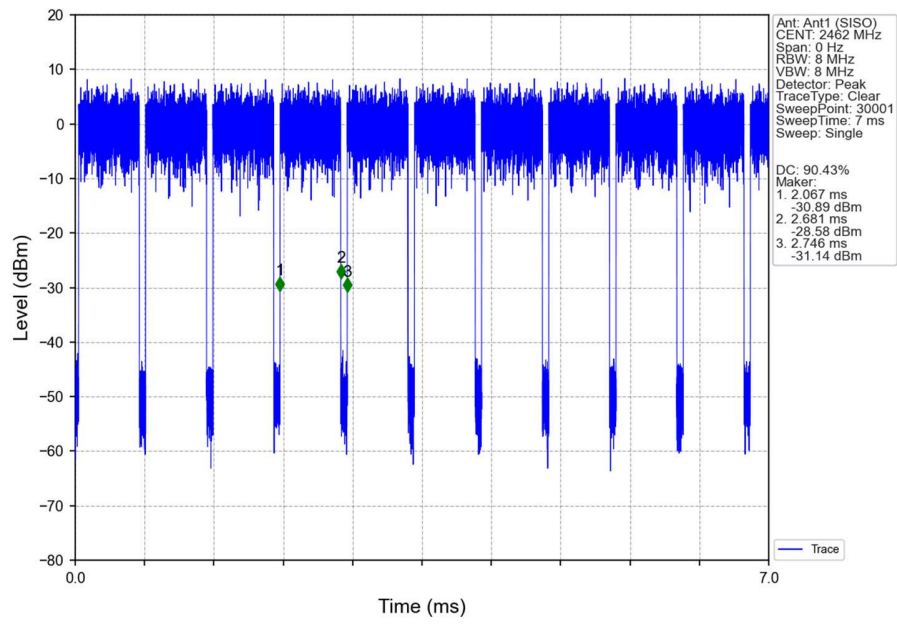
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

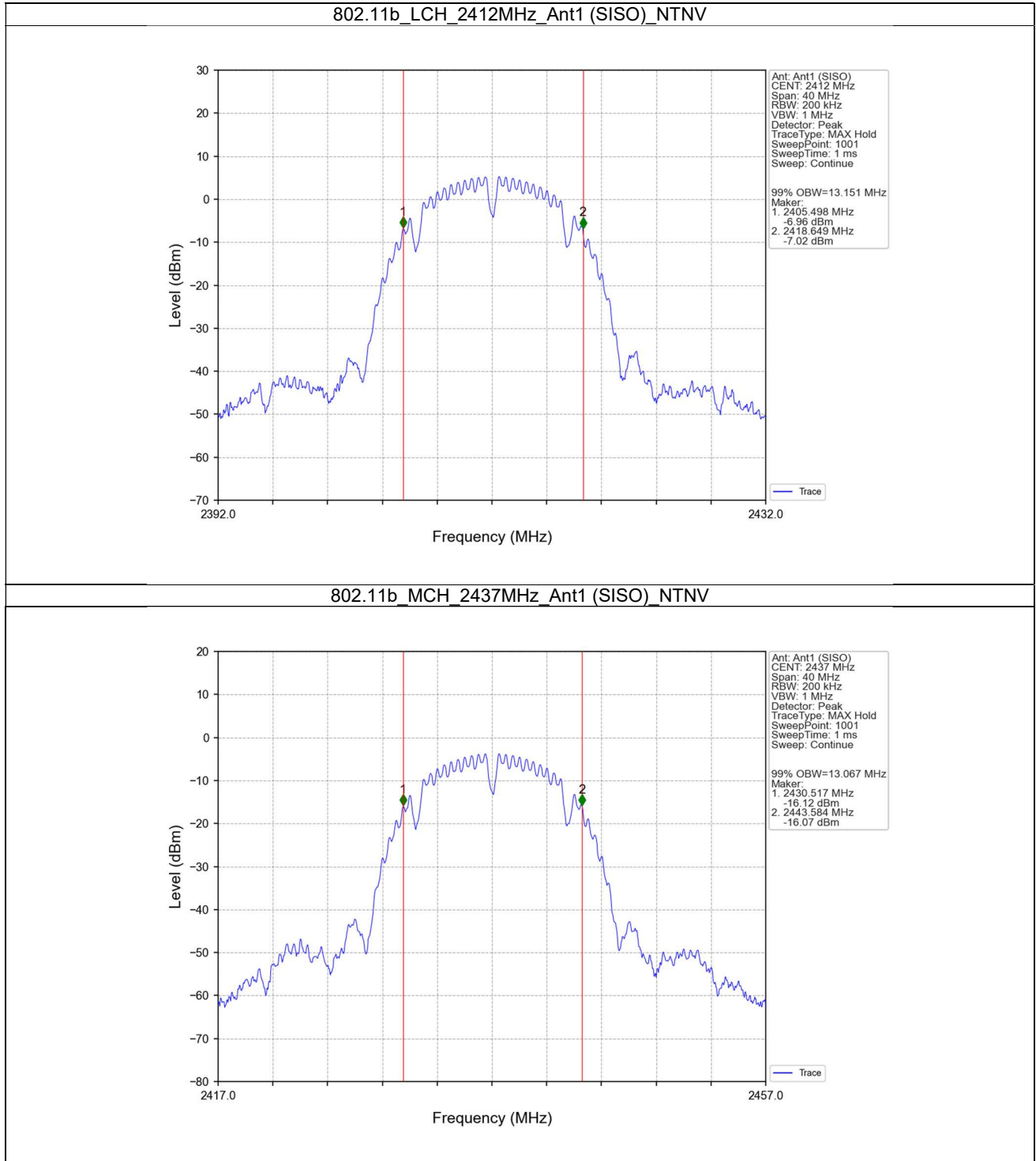
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.151	/	Pass
		2437	1	13.067	/	Pass
		2462	1	13.015	/	Pass
802.11g	SISO	2412	1	16.913	/	Pass
		2437	1	16.940	/	Pass
		2462	1	16.933	/	Pass
802.11n (HT20)	SISO	2412	1	17.957	/	Pass
		2437	1	17.976	/	Pass
		2462	1	17.982	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.671	≥ 0.5	Pass
		2437	1	10.075	≥ 0.5	Pass
		2462	1	9.645	≥ 0.5	Pass
802.11g	SISO	2412	1	16.567	≥ 0.5	Pass
		2437	1	16.571	≥ 0.5	Pass
		2462	1	16.484	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.699	≥ 0.5	Pass
		2437	1	17.702	≥ 0.5	Pass
		2462	1	17.705	≥ 0.5	Pass

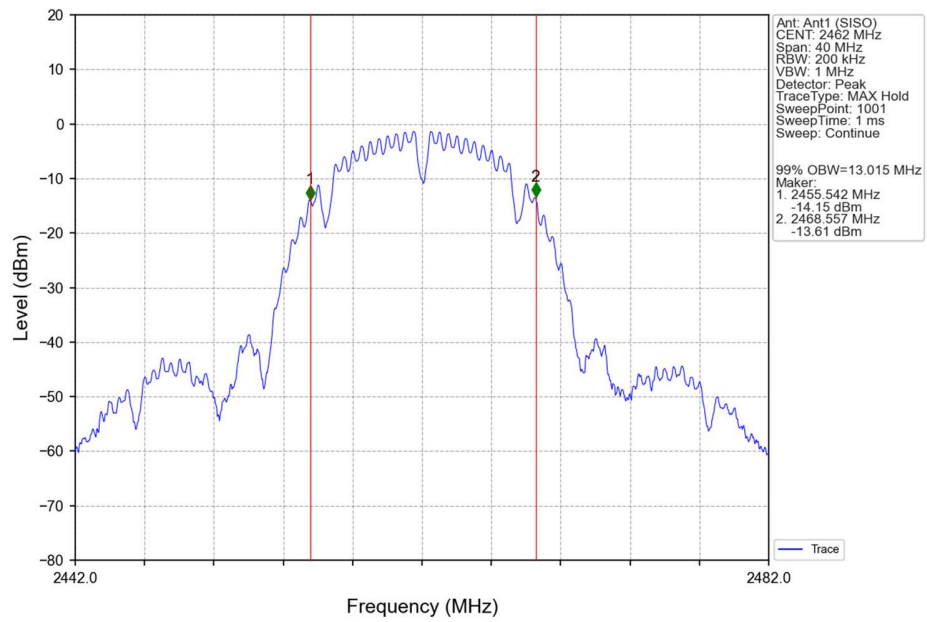
2.2 Test Graph

2.2.1 OBW

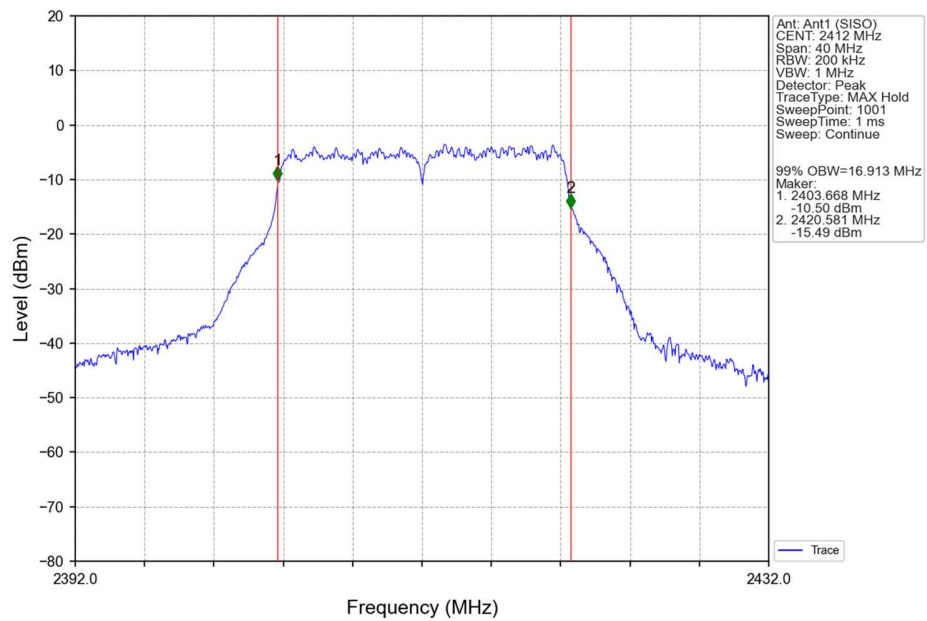


Report: BKC26063170FE

802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

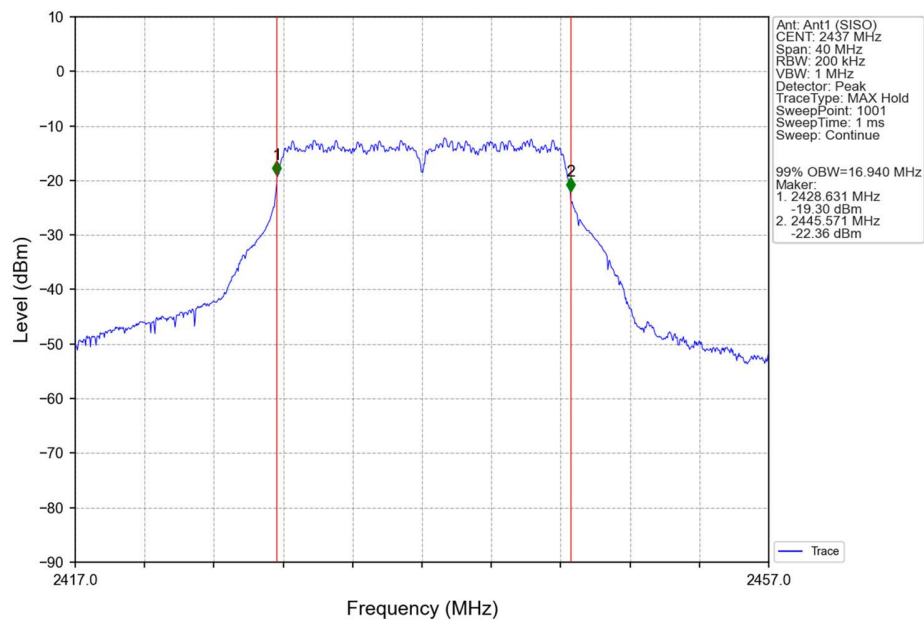


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

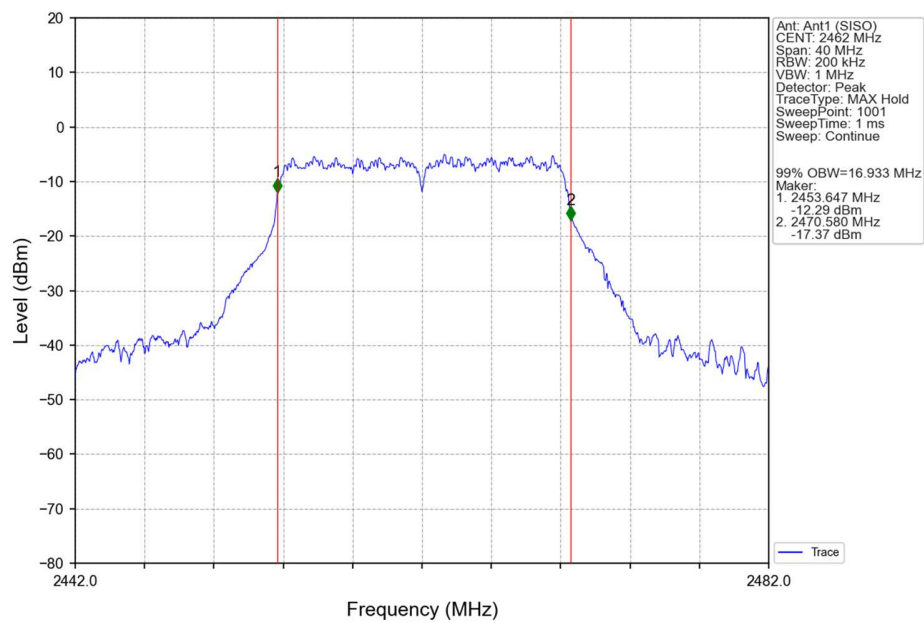


Report: BKC26063170FE

802.11g_MCH_2437MHz_Ant1 (SISO) NTN

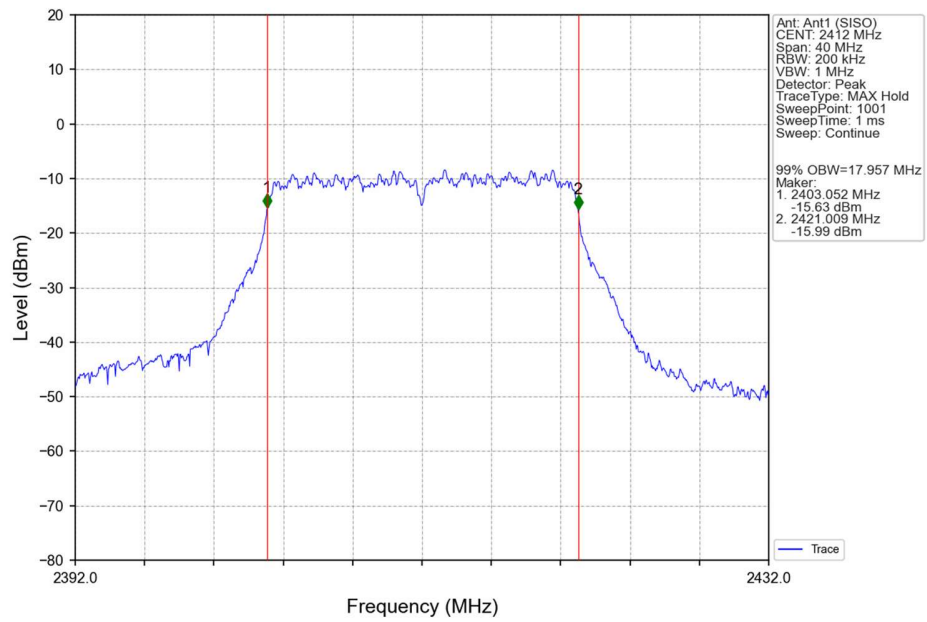


802.11g_HCH_2462MHz_Ant1 (SISO) NTN

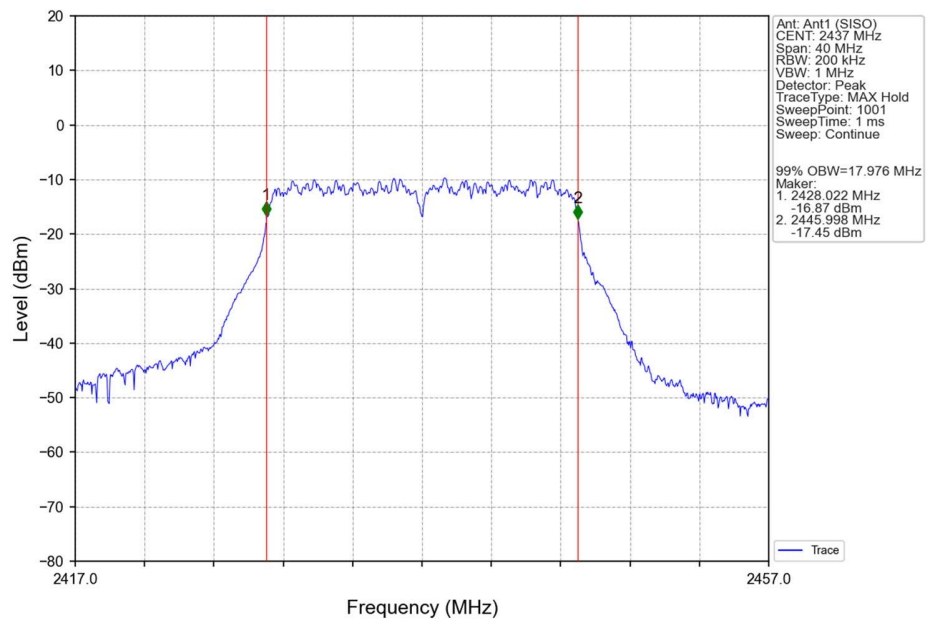


Report: BKC26063170FE

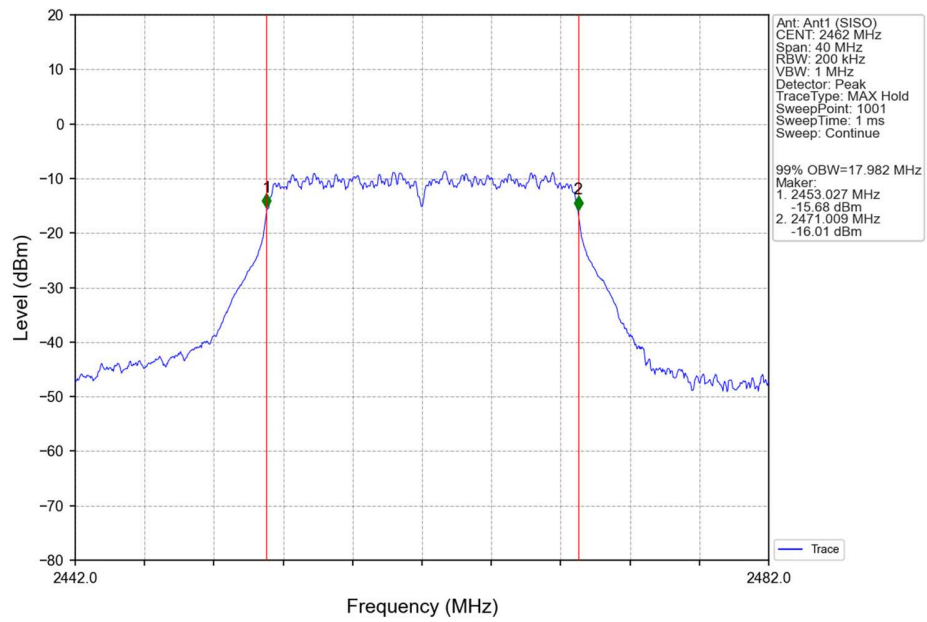
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



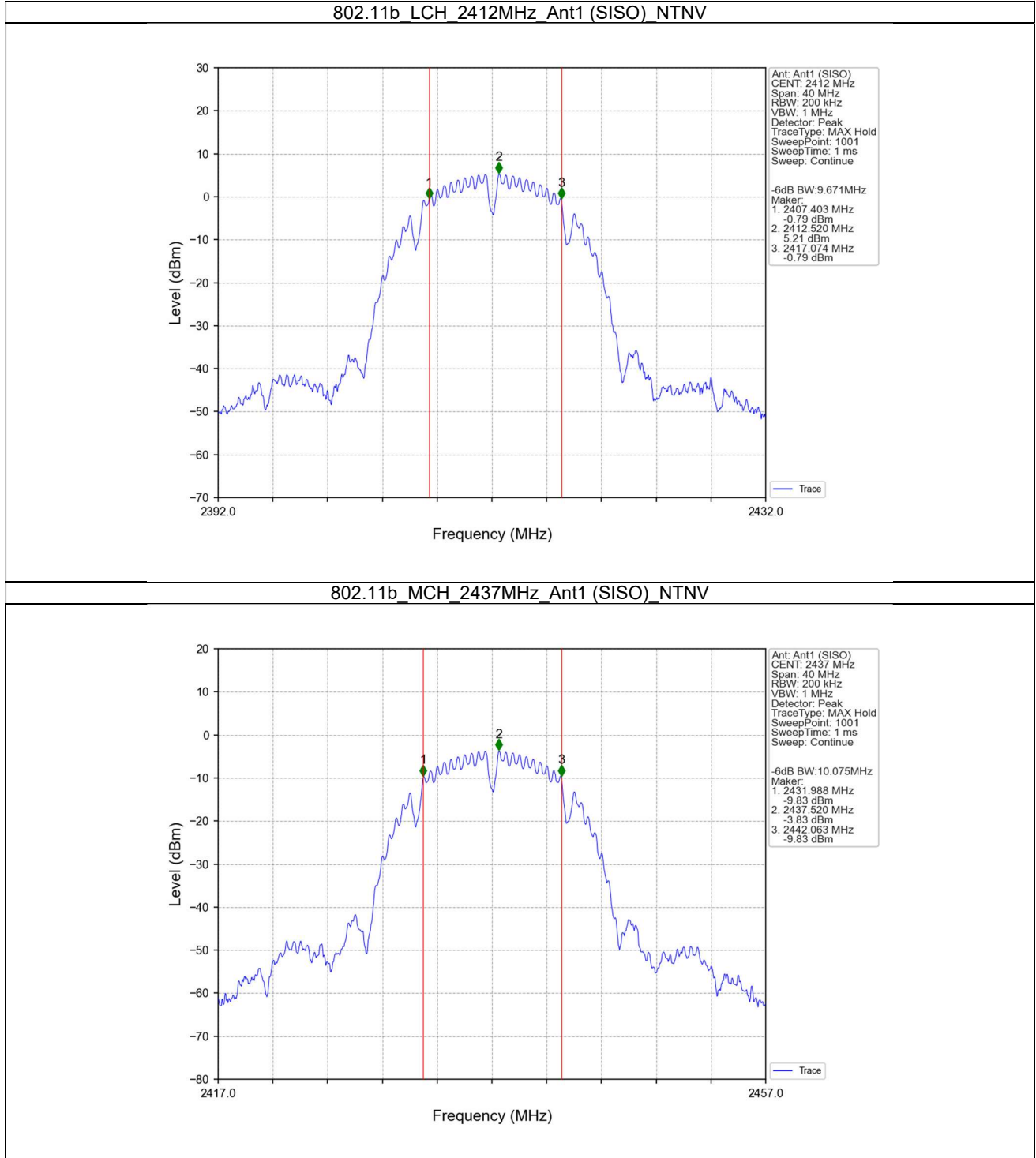
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

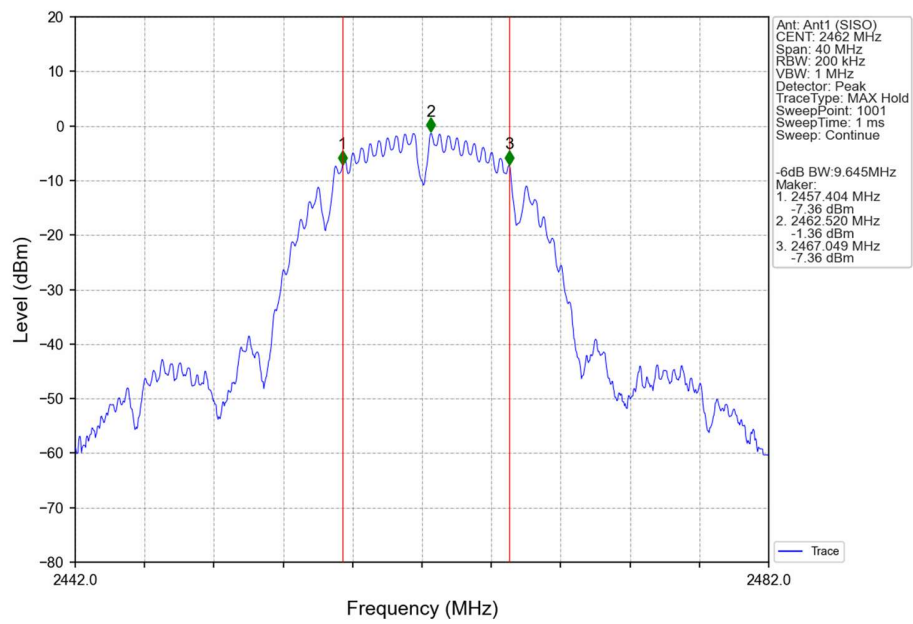


2.2.2 6dB BW

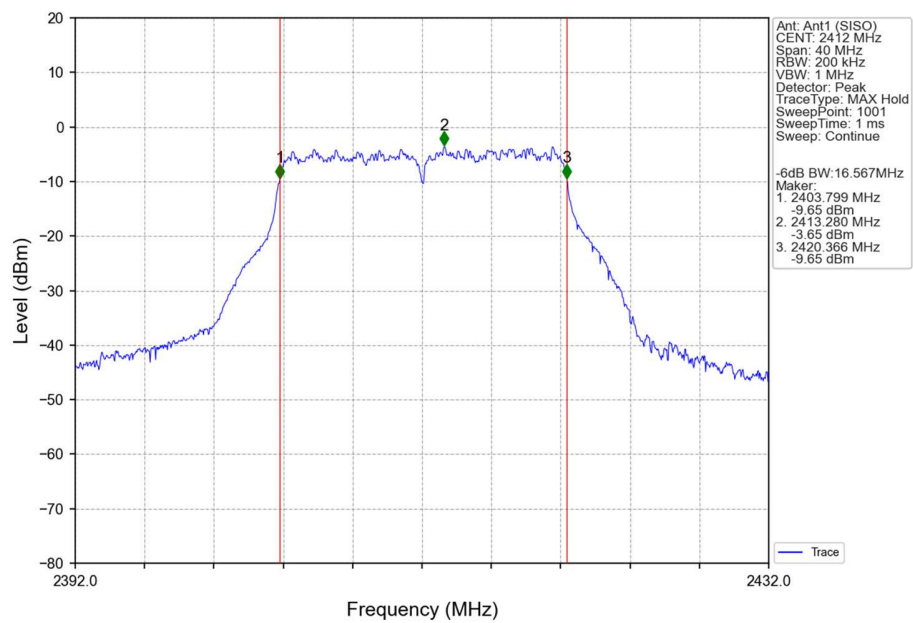


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

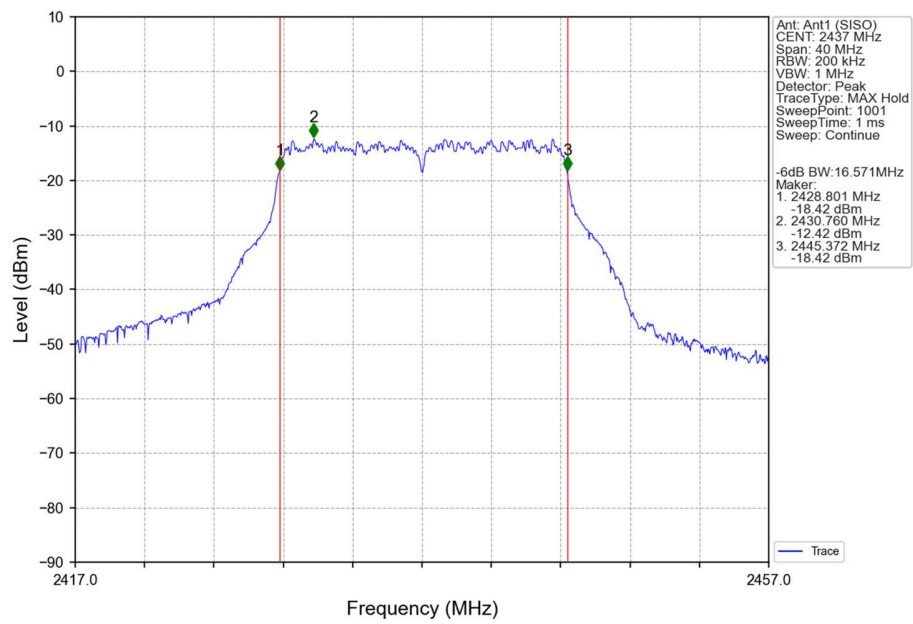


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

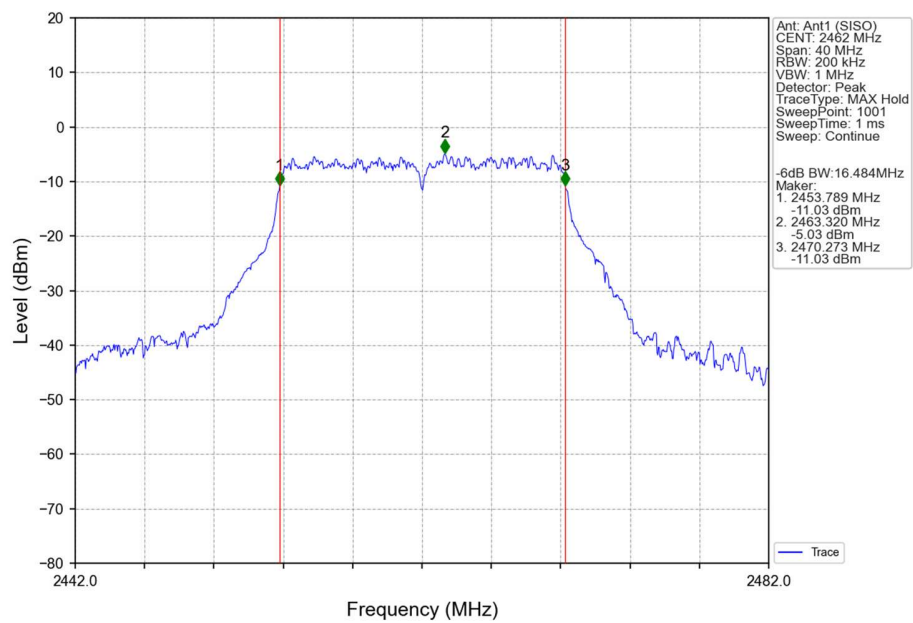


Report: BKC26063170FE

802.11g_MCH_2437MHz_Ant1 (SISO) NTN

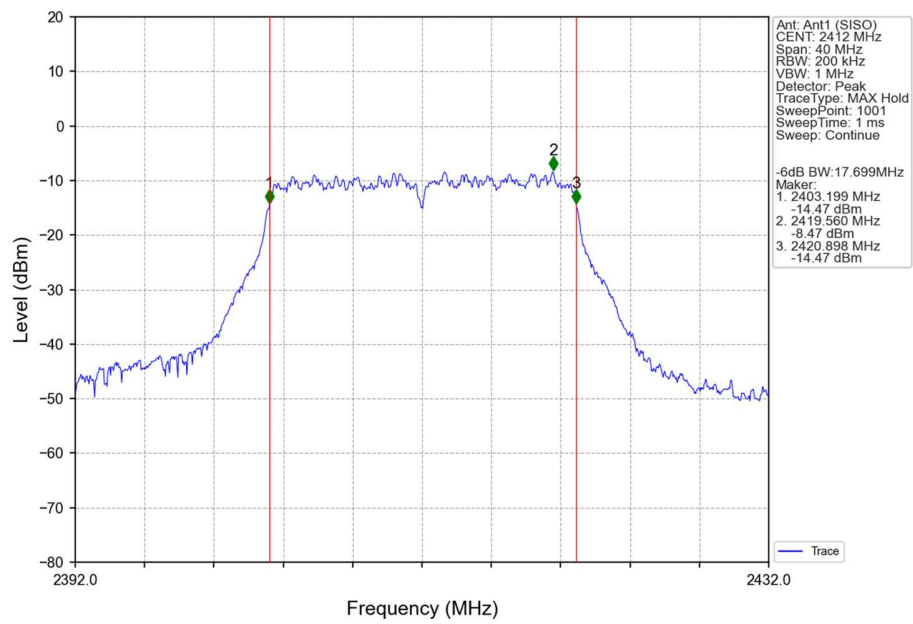


802.11g_HCH_2462MHz_Ant1 (SISO) NTN

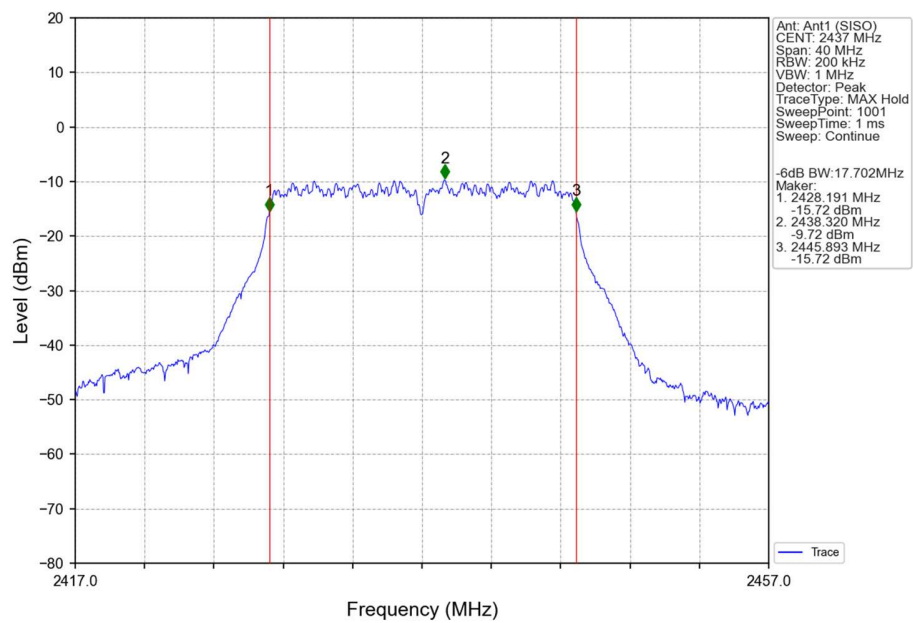


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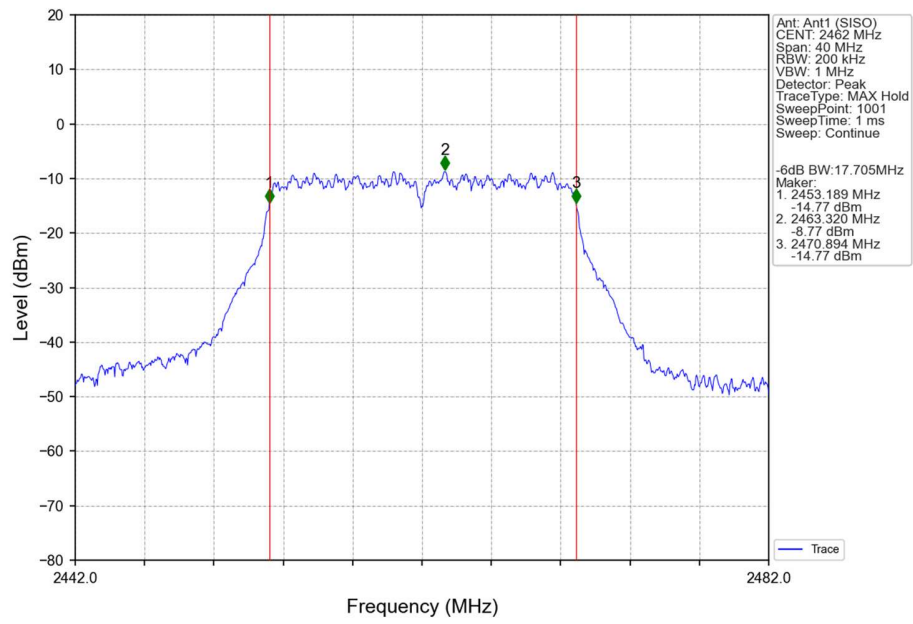
802.11n(HT20) LCH 2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20) MCH 2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			Conducted Power	Duty Cycle Factor (dB)	Total Conducted Power	Limit	
802.11b	SISO	2412	10.13	0.45	10.58	<=30	Pass
		2437	10.84	0.45	11.29	<=30	Pass
		2462	10.74	0.45	11.19	<=30	Pass
802.11g	SISO	2412	9.55	0.43	9.98	<=30	Pass
		2437	9.65	0.43	10.08	<=30	Pass
		2462	9.23	0.43	9.66	<=30	Pass
802.11n (HT20)	SISO	2412	9.61	0.44	10.05	<=30	Pass
		2437	9.72	0.44	10.16	<=30	Pass
		2462	9.35	0.44	9.79	<=30	Pass
Note1: Antenna Gain: Ant1: 3.16dBi;							

4. Maximum Power Spectral Density

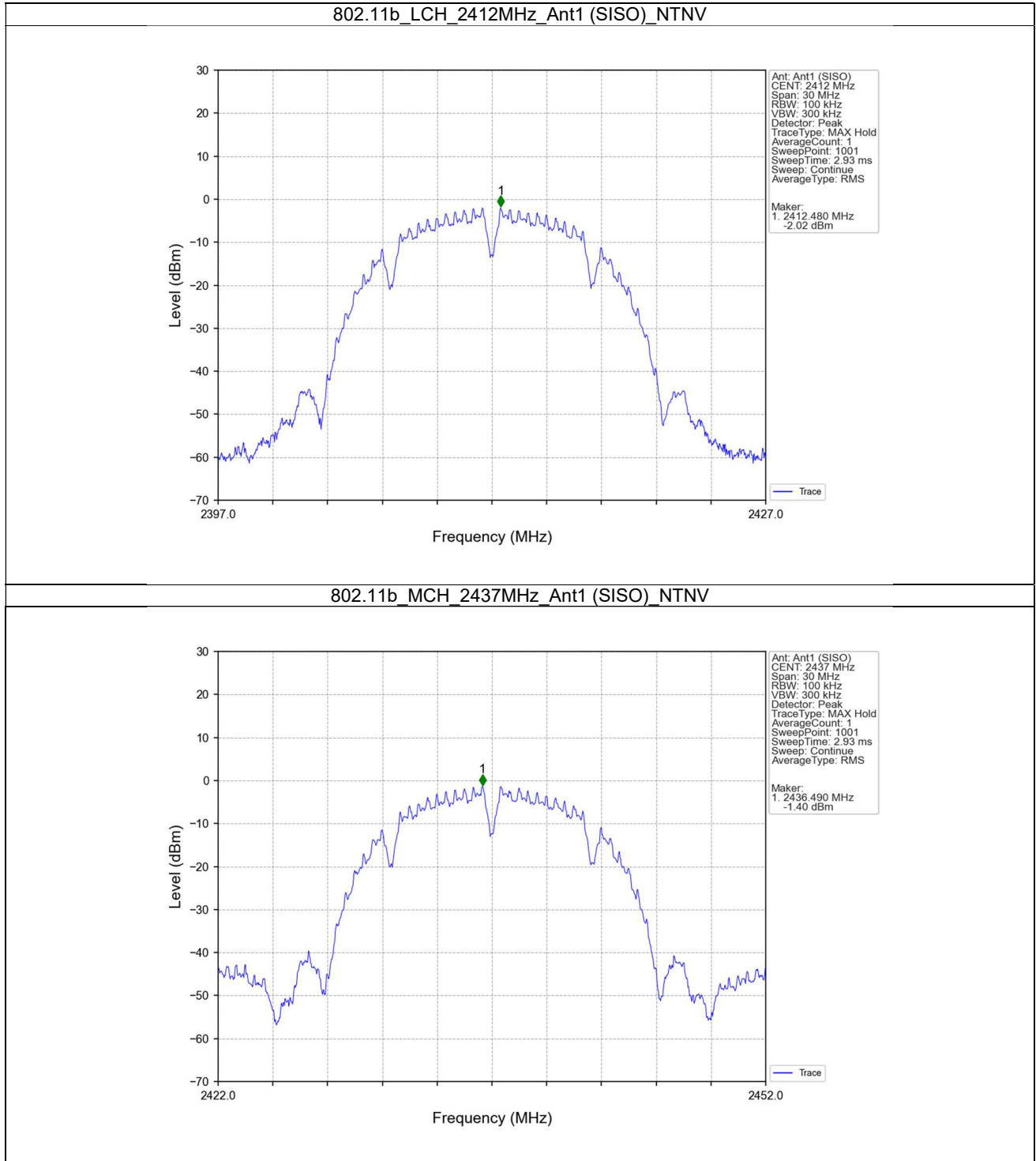
4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD		Verdict
			ANT1 (dBm/100Khz)	Limit (dBm/3Khz)	
802.11b	SISO	2412	-2.02	<=8	Pass
		2437	-1.40	<=8	Pass
		2462	-1.34	<=8	Pass
802.11g	SISO	2412	-9.59	<=8	Pass
		2437	-9.39	<=8	Pass
		2462	-9.76	<=8	Pass
802.11n (HT20)	SISO	2412	-9.60	<=8	Pass
		2437	-9.49	<=8	Pass
		2462	-9.67	<=8	Pass
Note1: Antenna Gain: Ant1: 3.16dBi; Note2: The Duty Cycle Factor has been compensated in the test graph.					

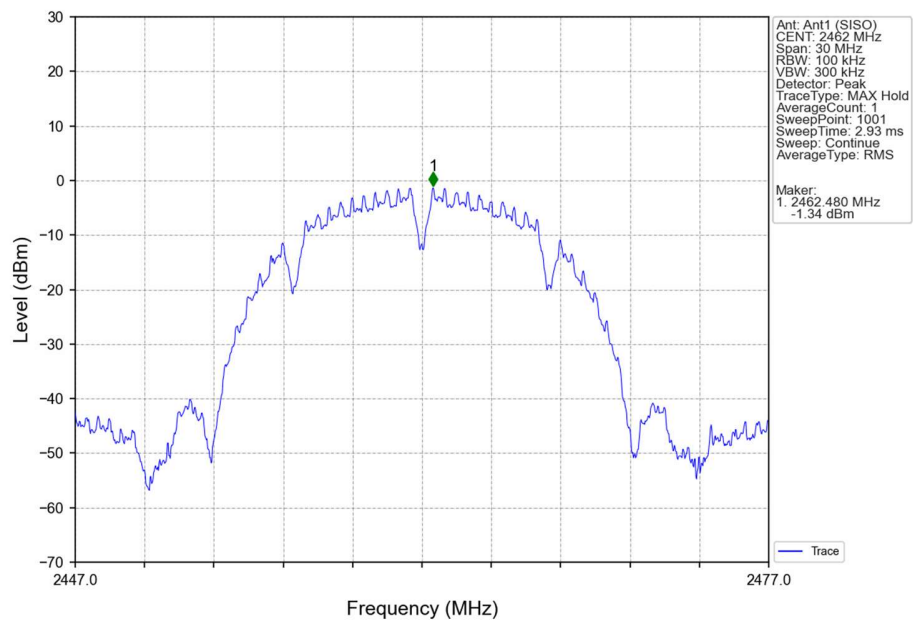
4.2 Test Graph

4.2.1 PSD

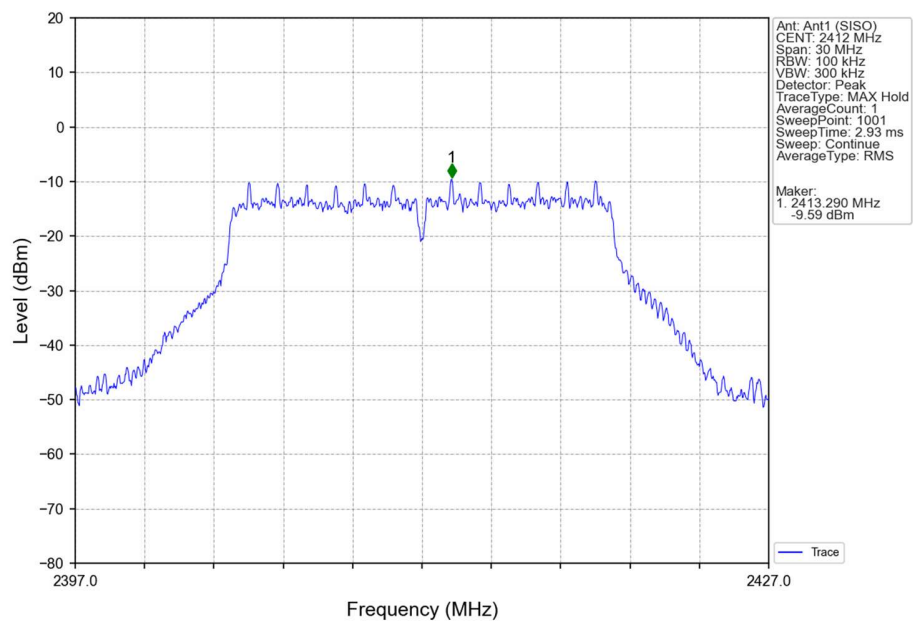


Report: BKC26063170FE

802.11b_HCH_2462MHz_Ant1 (SISO) NTN

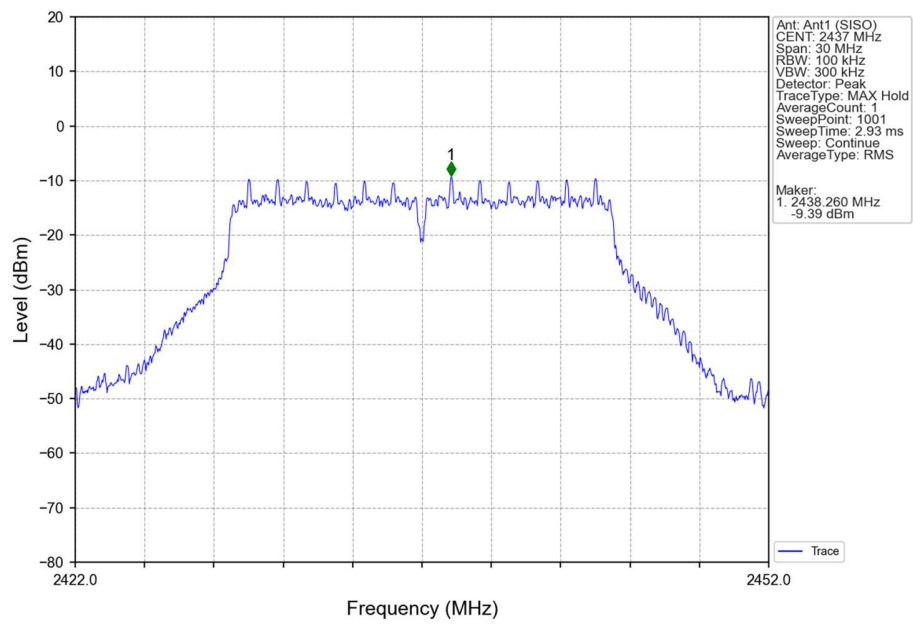


802.11g_LCH_2412MHz_Ant1 (SISO) NTN

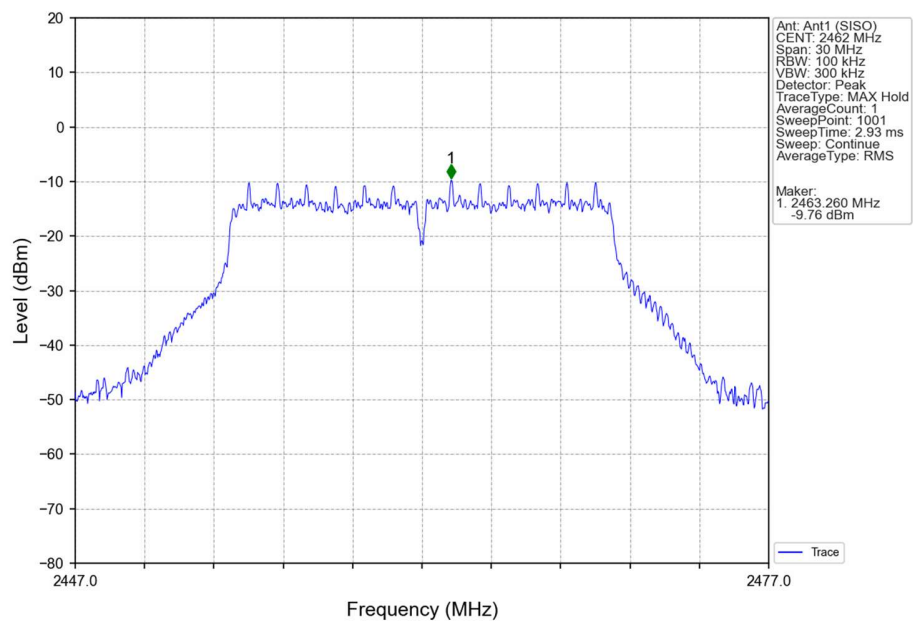


Report: BKC26063170FE

802.11g_MCH_2437MHz_Ant1 (SISO) NTN

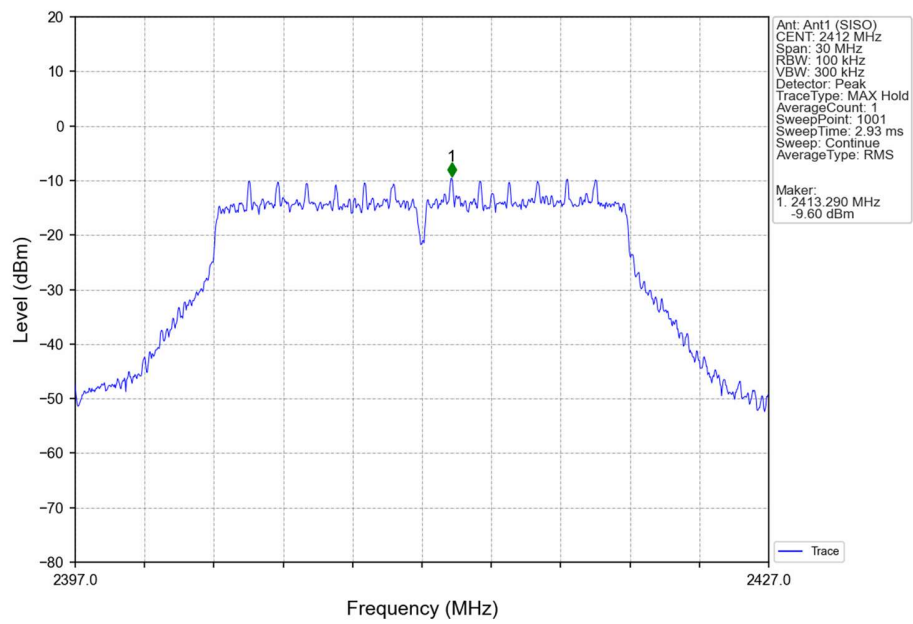


802.11g_HCH_2462MHz_Ant1 (SISO) NTN

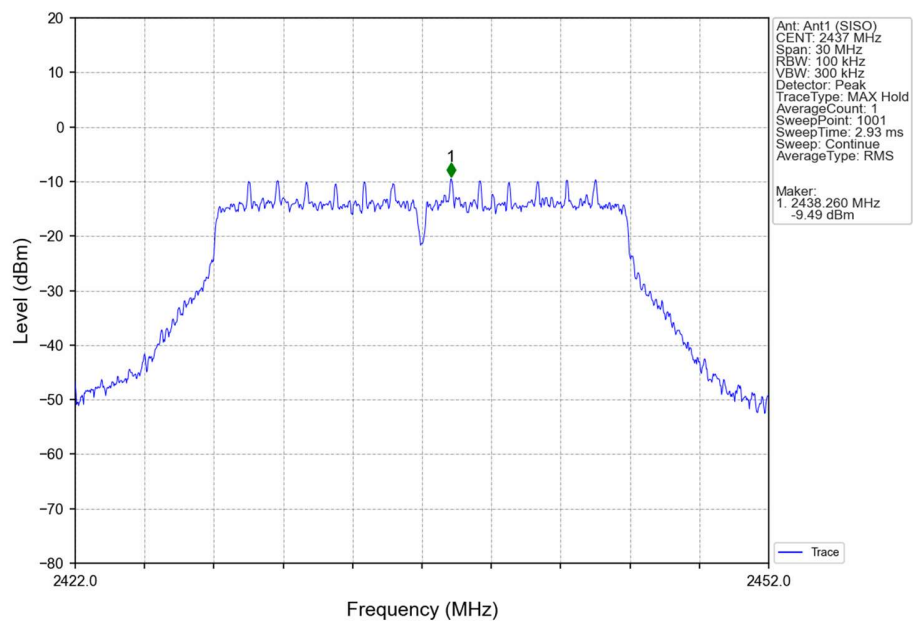


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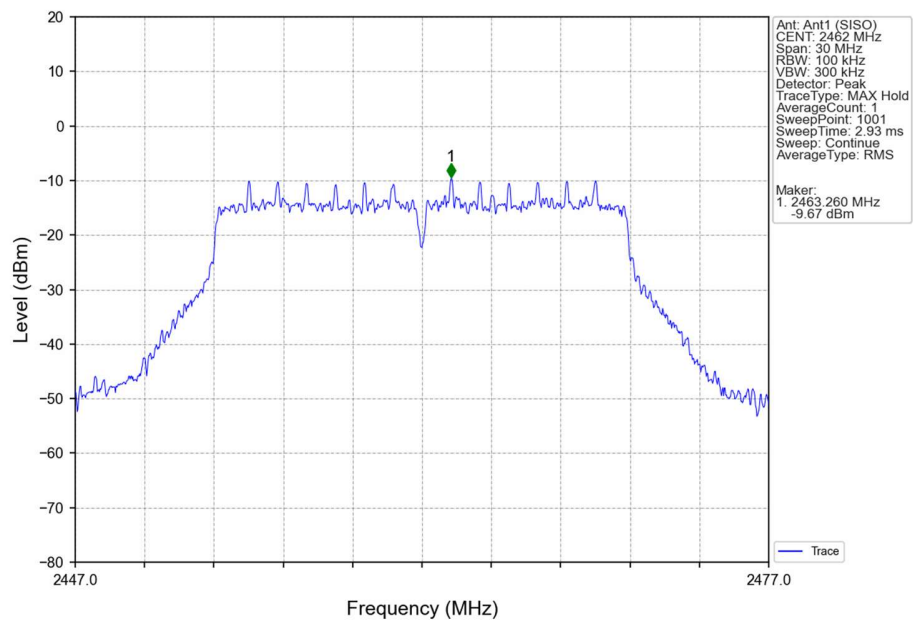
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

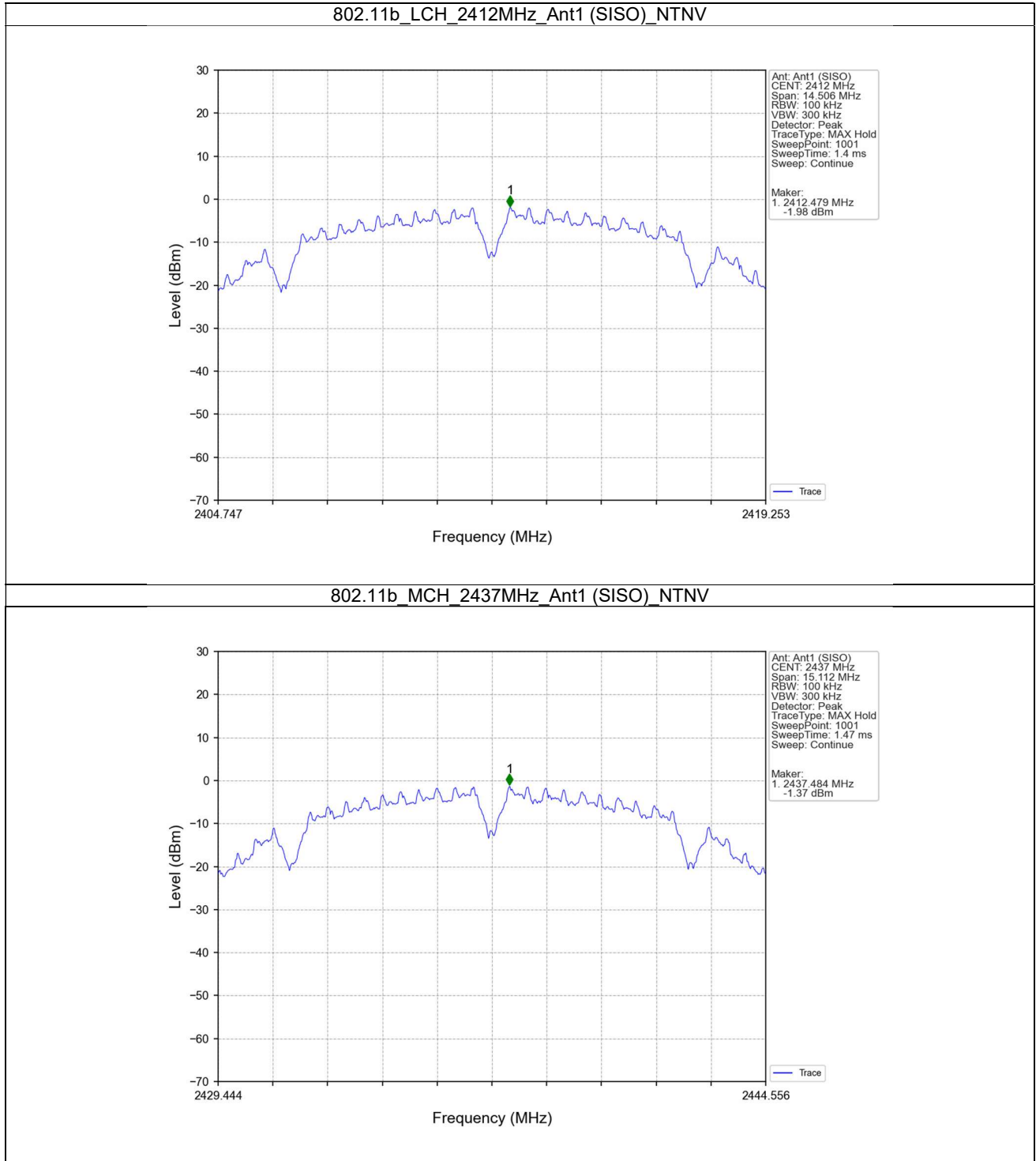
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-1.98
		2437	1	-1.37
		2462	1	-1.40
802.11g	SISO	2412	1	-9.51
		2437	1	-9.64
		2462	1	-9.91
802.11n (HT20)	SISO	2412	1	-9.77
		2437	1	-9.39
		2462	1	-9.65

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-1.98	-21.98	Pass
		2437	1	-1.37	-21.37	Pass
		2462	1	-1.40	-21.40	Pass
802.11g	SISO	2412	1	-9.51	-29.51	Pass
		2437	1	-9.64	-29.64	Pass
		2462	1	-9.91	-29.91	Pass
802.11n (HT20)	SISO	2412	1	-9.77	-29.77	Pass
		2437	1	-9.39	-29.39	Pass
		2462	1	-9.65	-29.65	Pass

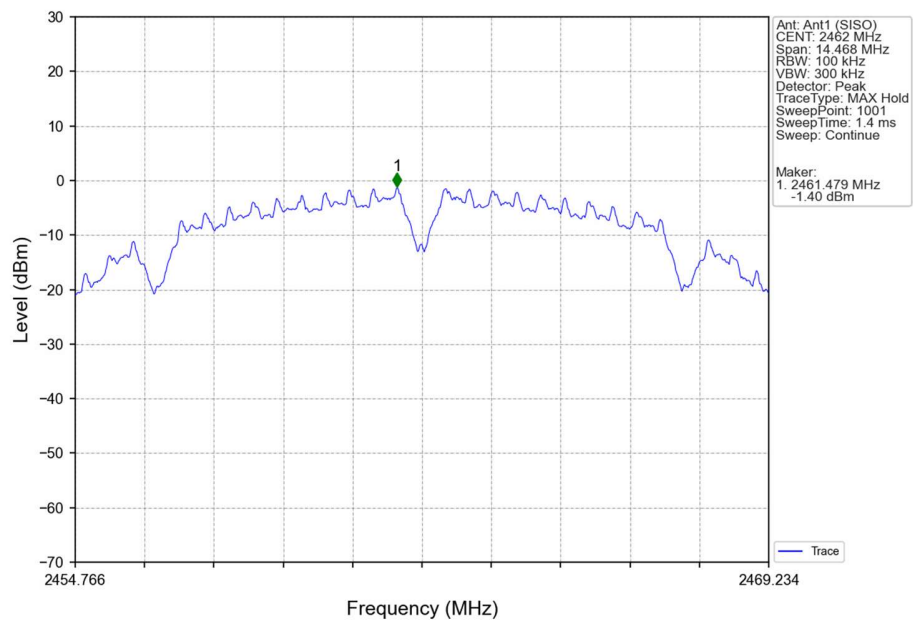
5.2 Test Graph

5.2.1 Ref

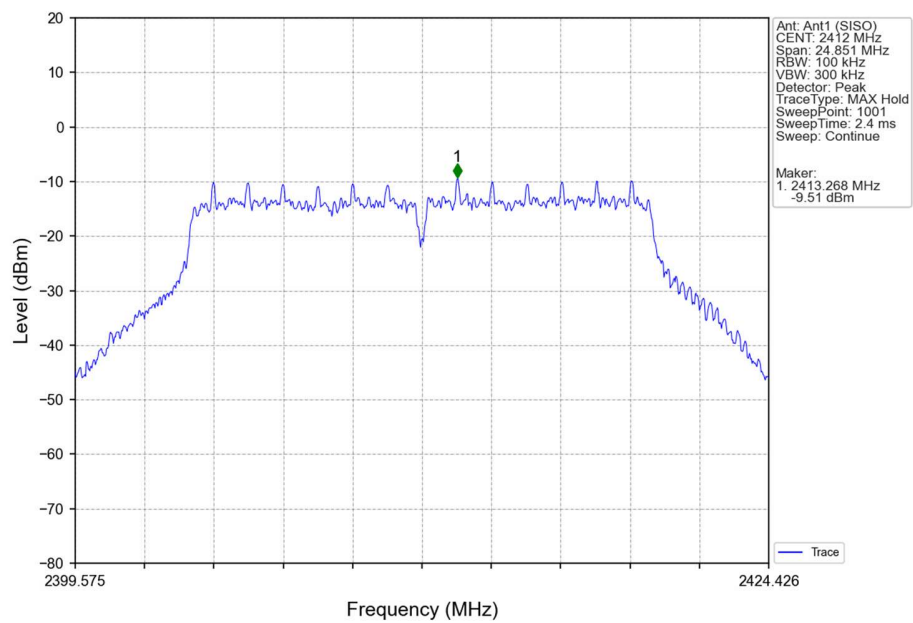


Report: BKC26063170FE

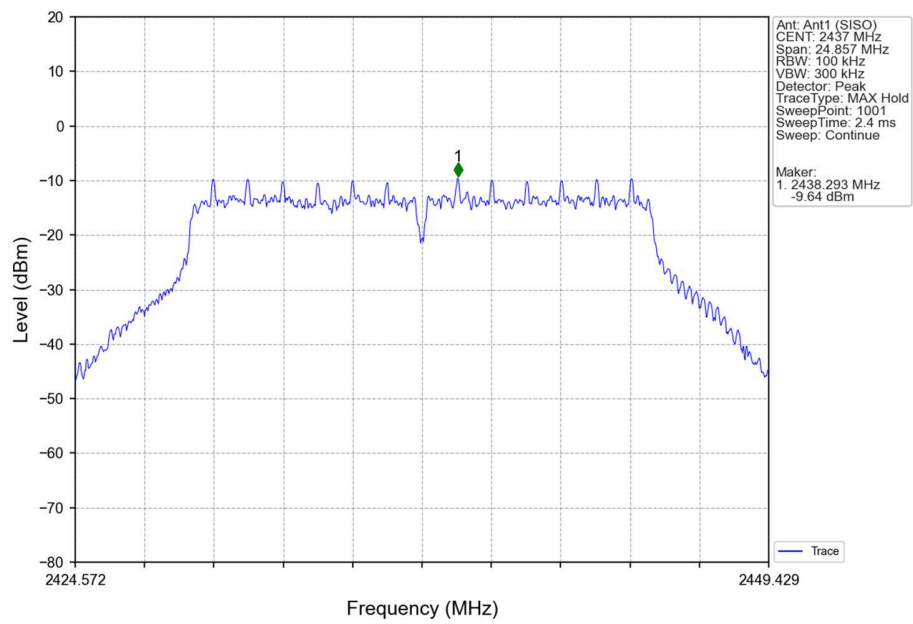
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



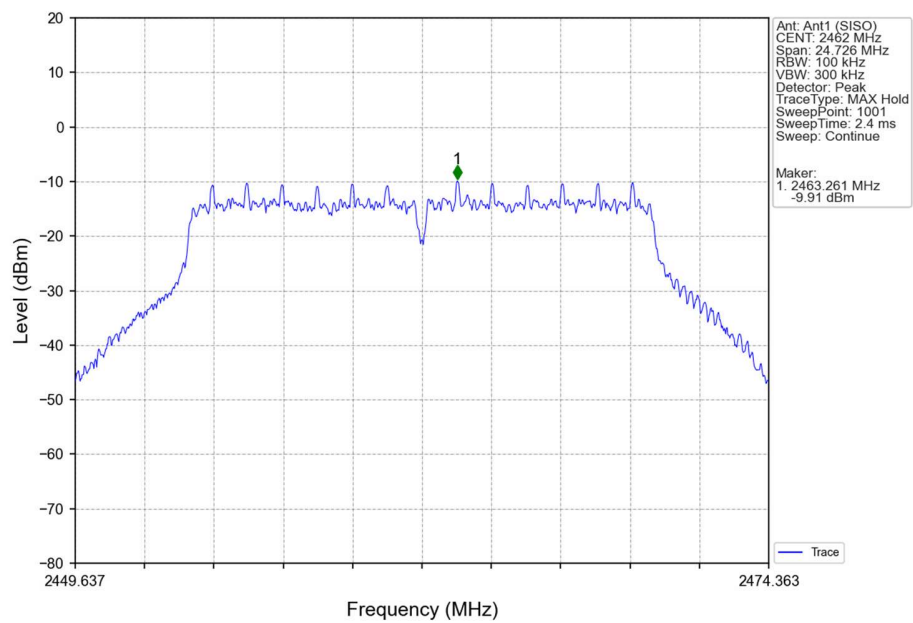
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

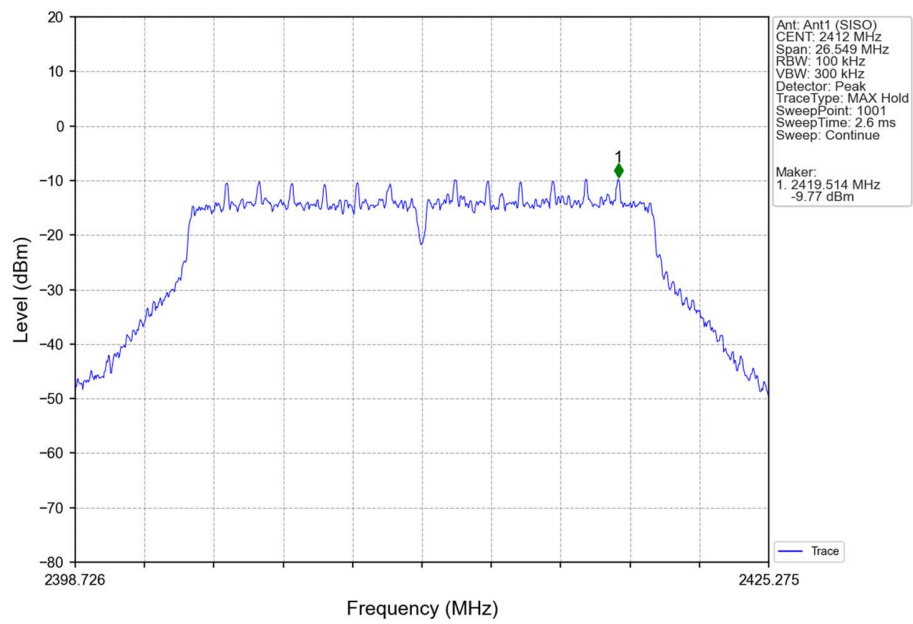


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

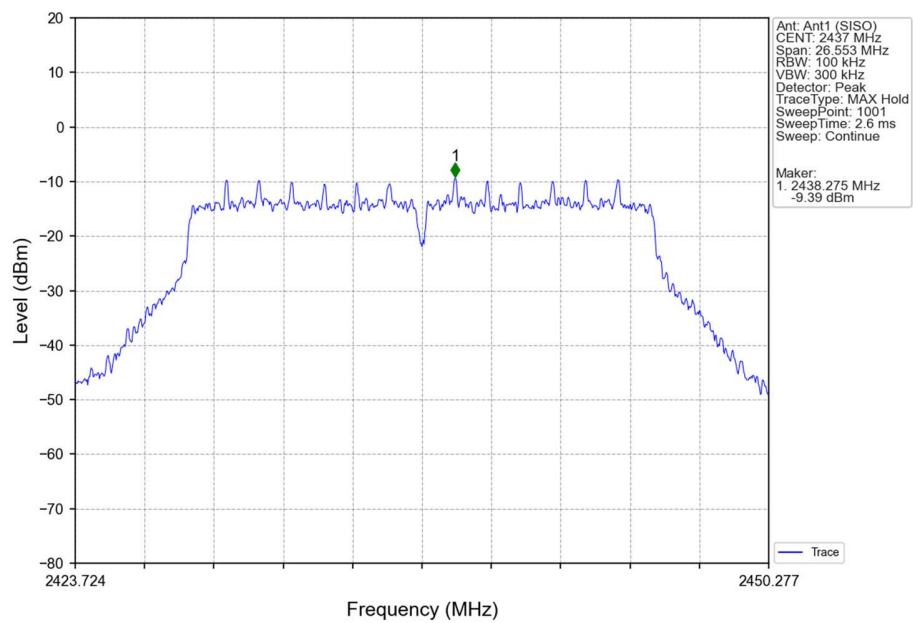


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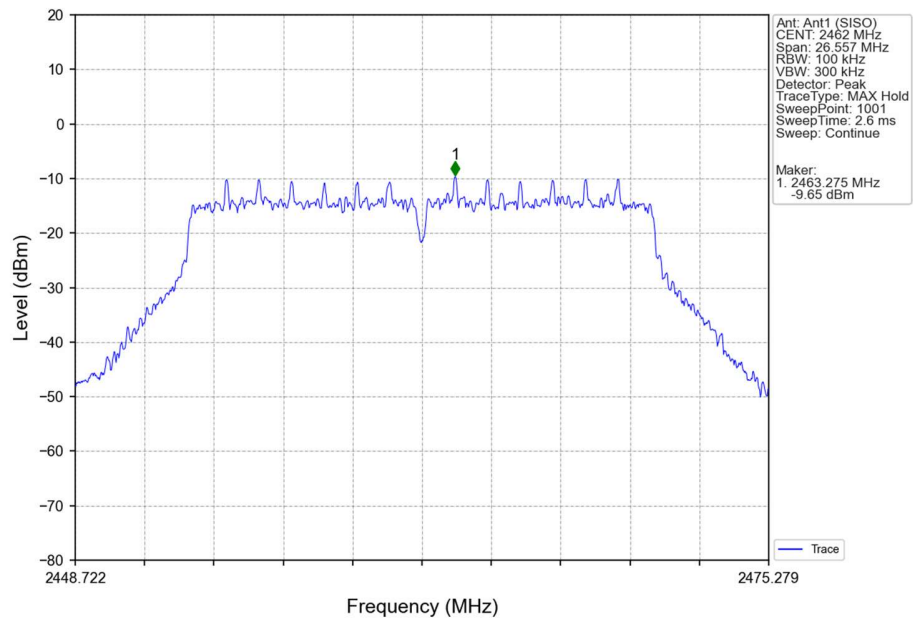
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



5.2.2 CSE

