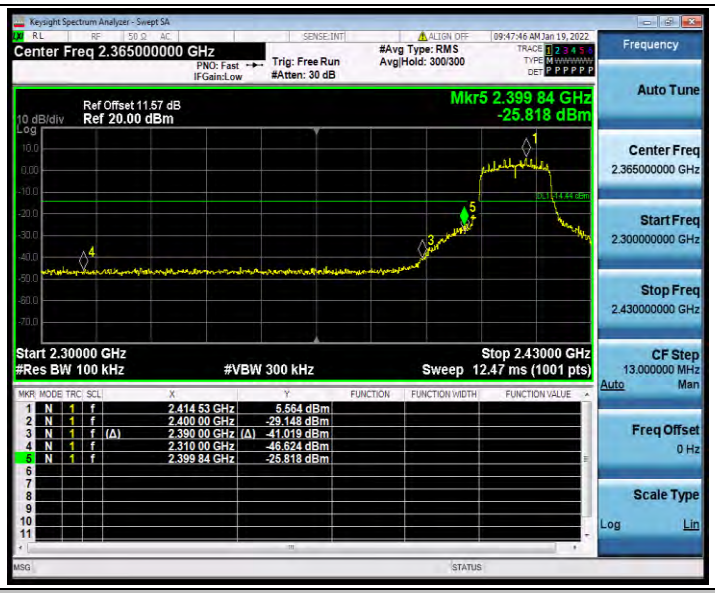
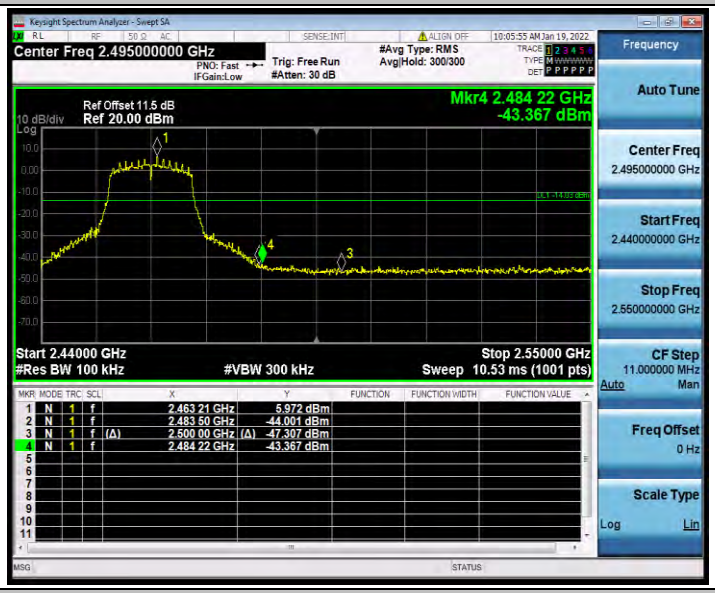
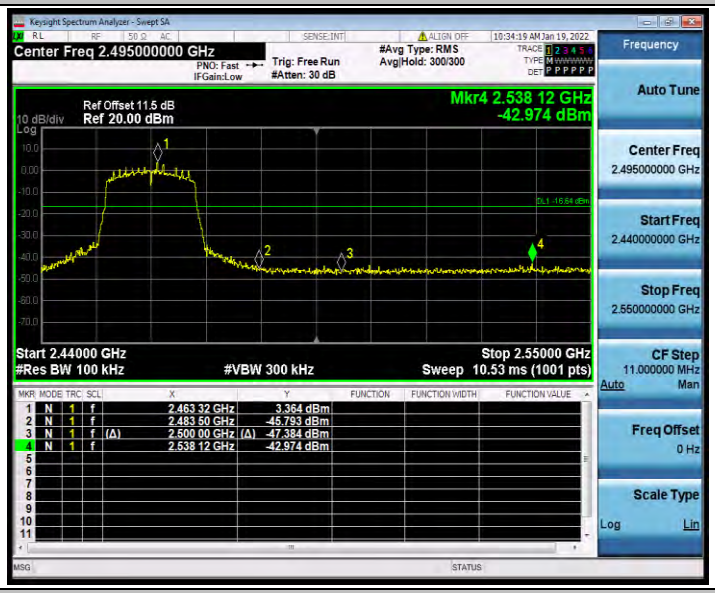


11G_Ant1_Low_2412



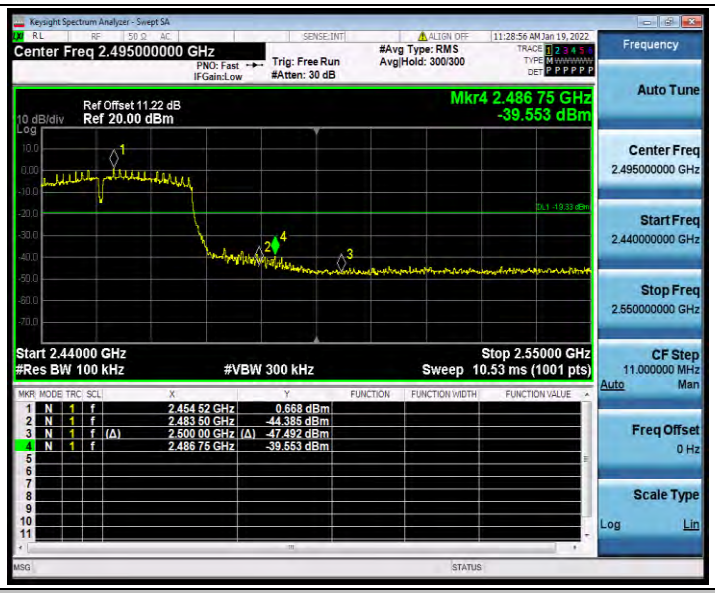
11G_Ant1_High_2462

11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

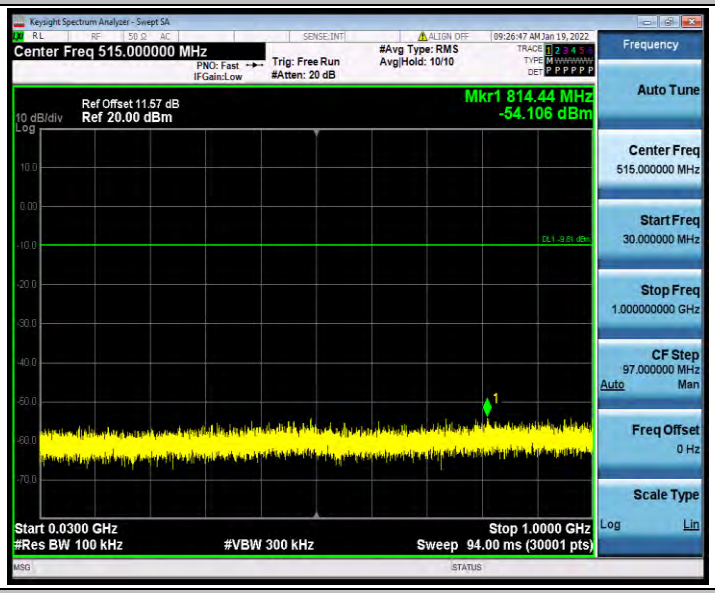
Conducted Spurious Emission

Test Result

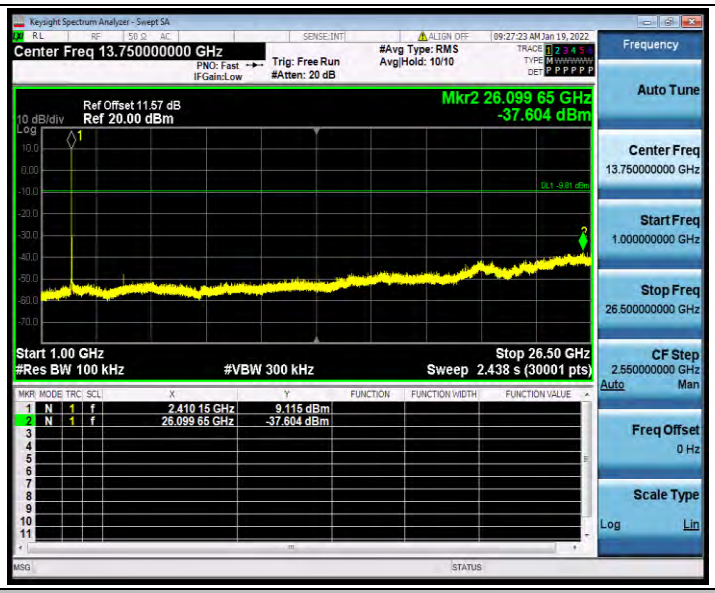
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	10.19	10.19	---	PASS
			30~1000	10.19	-54.11	≤-9.81	PASS
			1000~26500	10.19	-37.6	≤-9.81	PASS
		2437	Reference	9.13	9.13	---	PASS
			30~1000	9.13	-54.38	≤-10.87	PASS
			1000~26500	9.13	-38.13	≤-10.87	PASS
		2462	Reference	10.08	10.08	---	PASS
			30~1000	10.08	-53.09	≤-9.92	PASS
			1000~26500	10.08	-38.29	≤-9.92	PASS
11G	Ant1	2412	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-54.4	≤-16.63	PASS
			1000~26500	3.37	-36.93	≤-16.63	PASS
		2437	Reference	5.70	5.70	---	PASS
			30~1000	5.70	-54.27	≤-14.3	PASS
			1000~26500	5.70	-37.95	≤-14.3	PASS
		2462	Reference	2.61	2.61	---	PASS
			30~1000	2.61	-54.21	≤-17.39	PASS
			1000~26500	2.61	-38.07	≤-17.39	PASS
11N20SISO	Ant1	2412	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-53.78	≤-15.71	PASS
			1000~26500	4.29	-37.49	≤-15.71	PASS
		2437	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-53.72	≤-19.61	PASS
			1000~26500	0.40	-36.96	≤-19.61	PASS
		2462	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-52.75	≤-18.38	PASS
			1000~26500	1.62	-37.66	≤-18.38	PASS
11N40SISO	Ant1	2422	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-53.76	≤-20.35	PASS
			1000~26500	-0.35	-38.39	≤-20.35	PASS
		2437	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-53.73	≤-20.65	PASS
			1000~26500	-0.65	-37.17	≤-20.65	PASS
		2452	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-53.99	≤-21.88	PASS
			1000~26500	-1.88	-38.38	≤-21.88	PASS

Test Graphs

11B_Ant1_2412_0~Reference

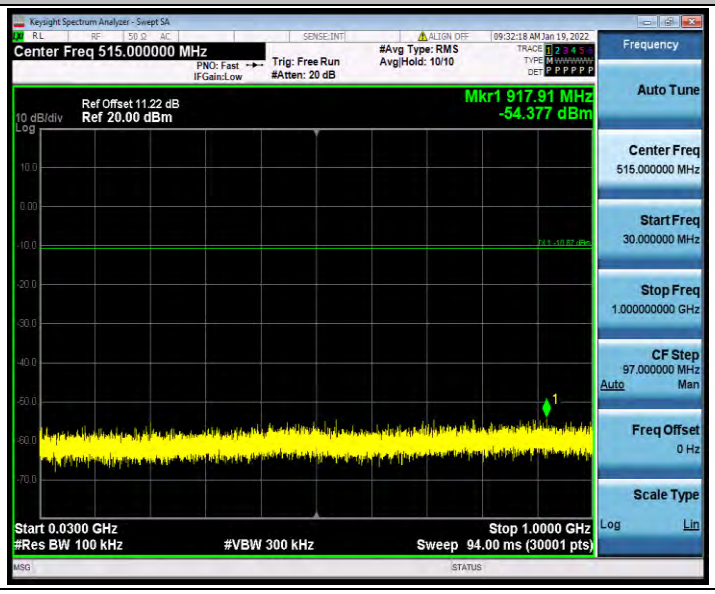


11B_Ant1_2412_30~1000

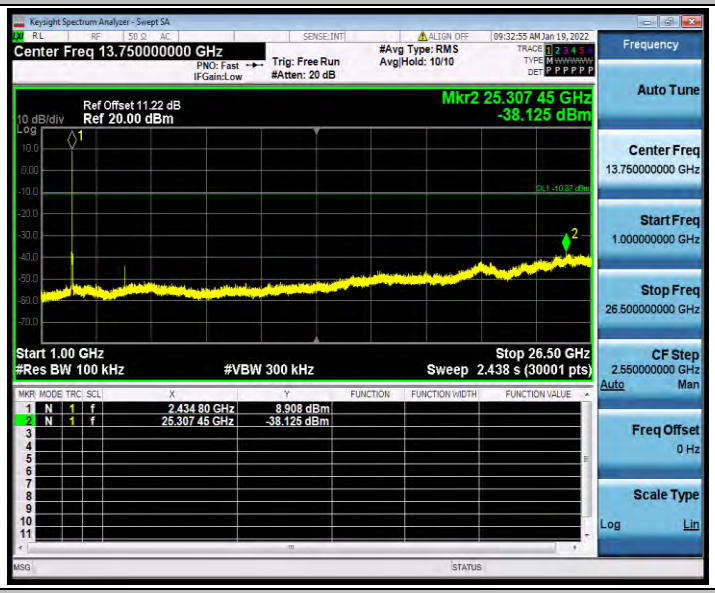


11B_Ant1_2412_1000~26500

11B_Ant1_2437_0~Reference

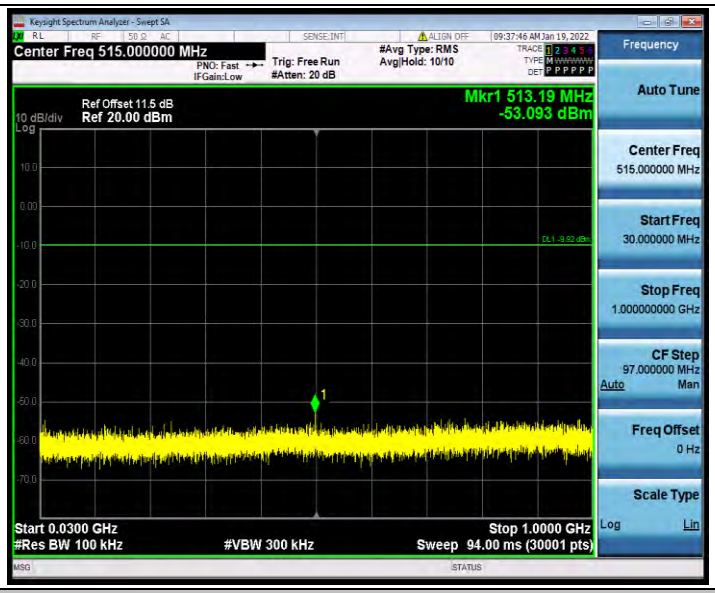


11B_Ant1_2437_30~1000

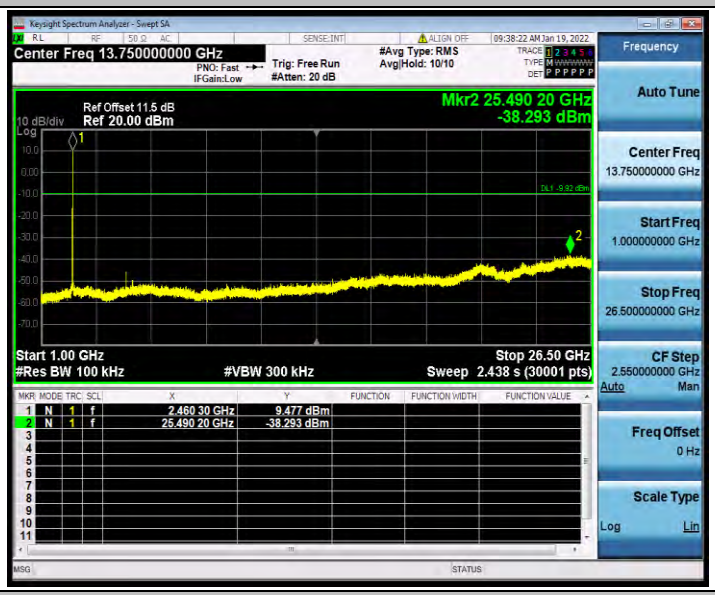


11B_Ant1_2437_1000~26500

11B_Ant1_2462_0~Reference

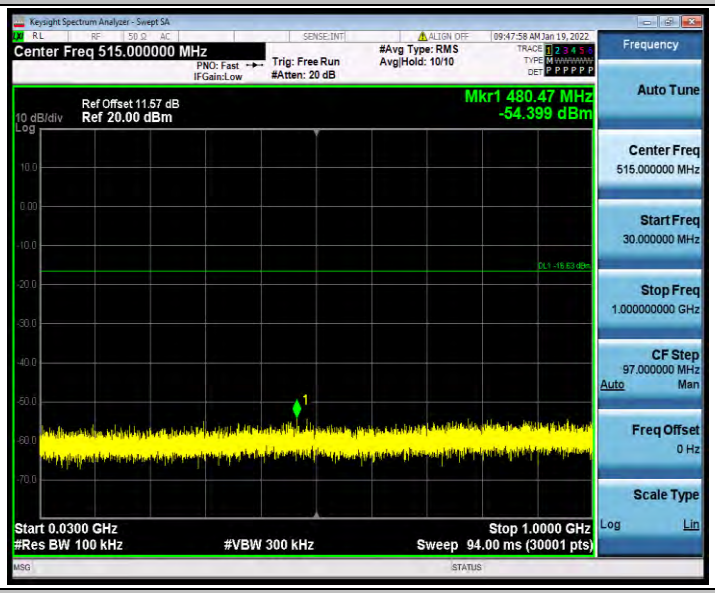


11B_Ant1_2462_30~1000



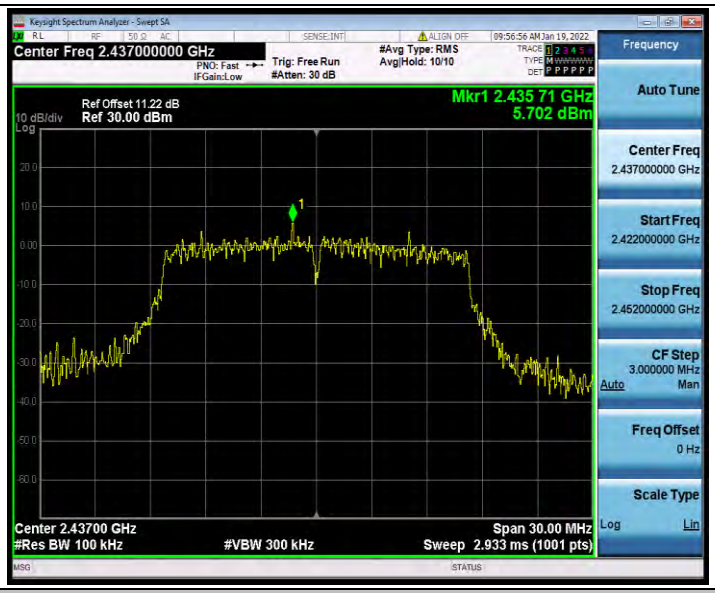
11B_Ant1_2462_1000~26500

11G_Ant1_2412_0~Reference

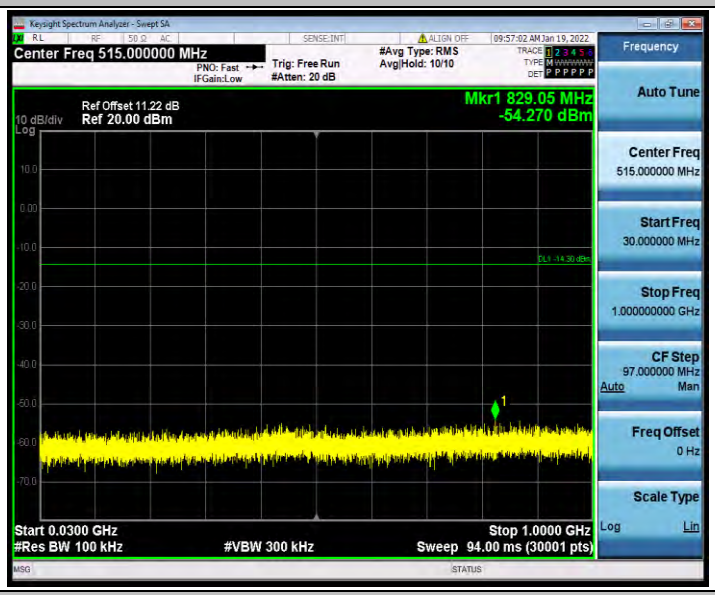


11G_Ant1_2412_30~1000

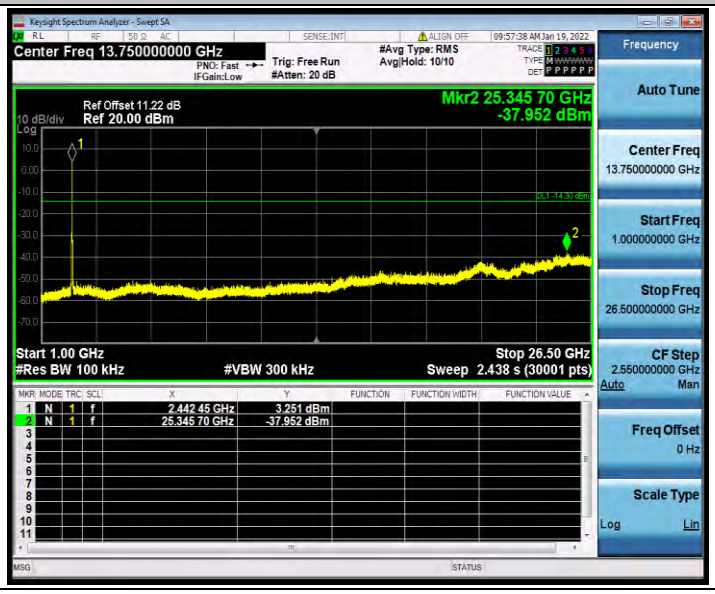
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

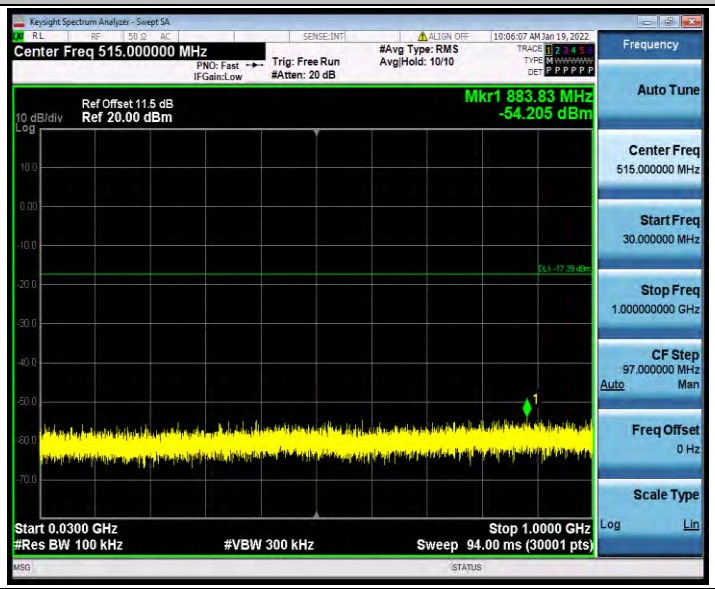


11G_Ant1_2437_30~1000

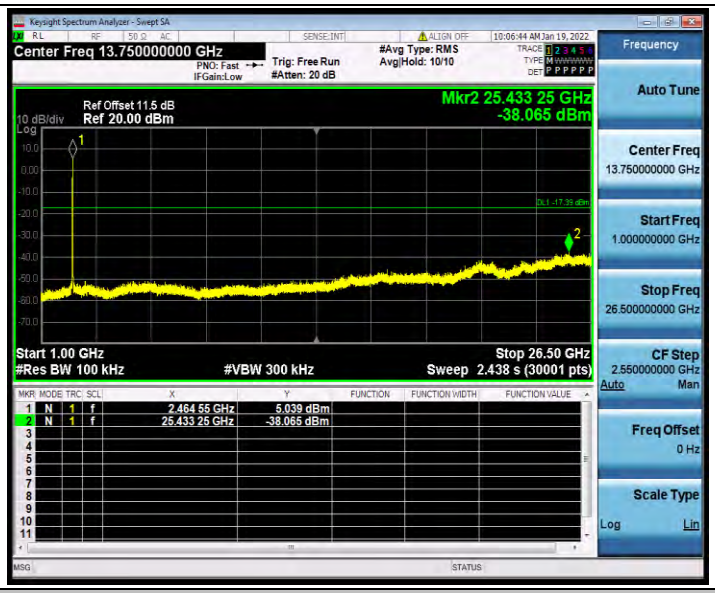


11G_Ant1_2437_1000~26500

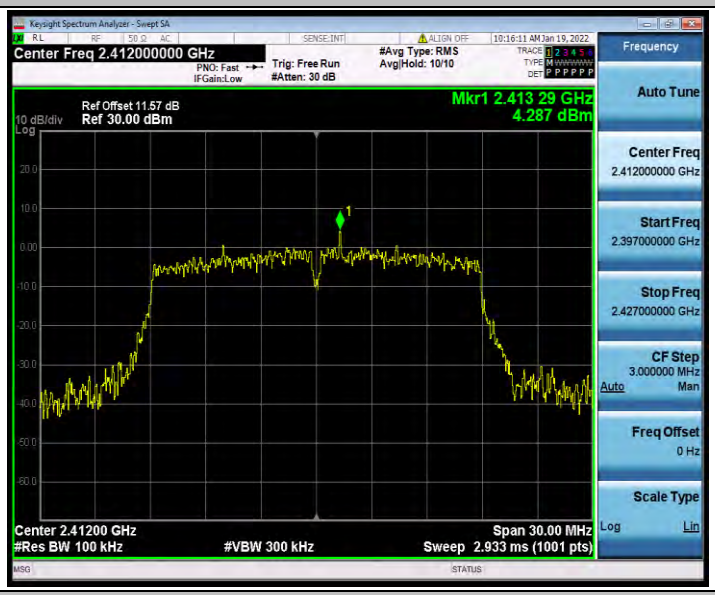
11G_Ant1_2462_0~Reference



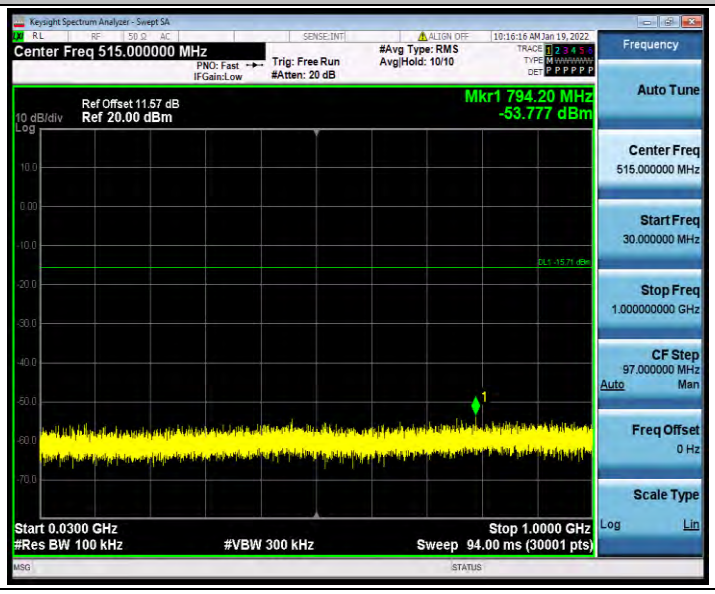
11G_Ant1_2462_30~1000



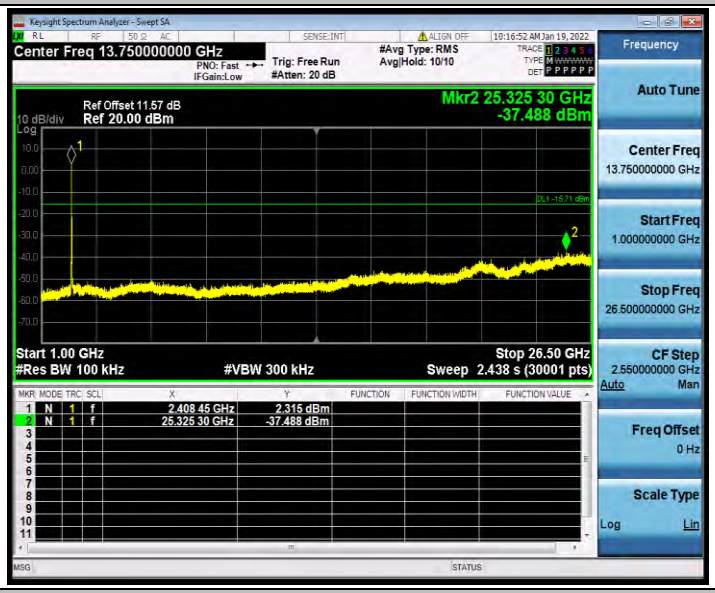
11G_Ant1_2462_1000~26500



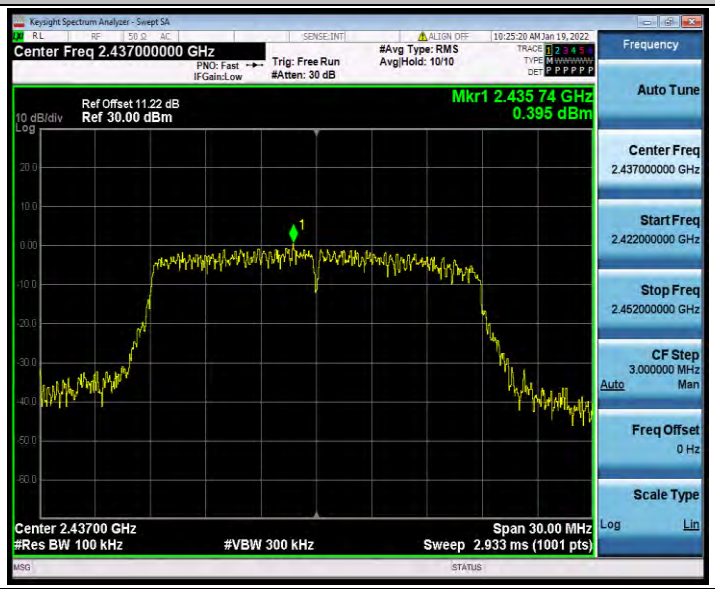
11N20SISO_Ant1_2412_0~Reference



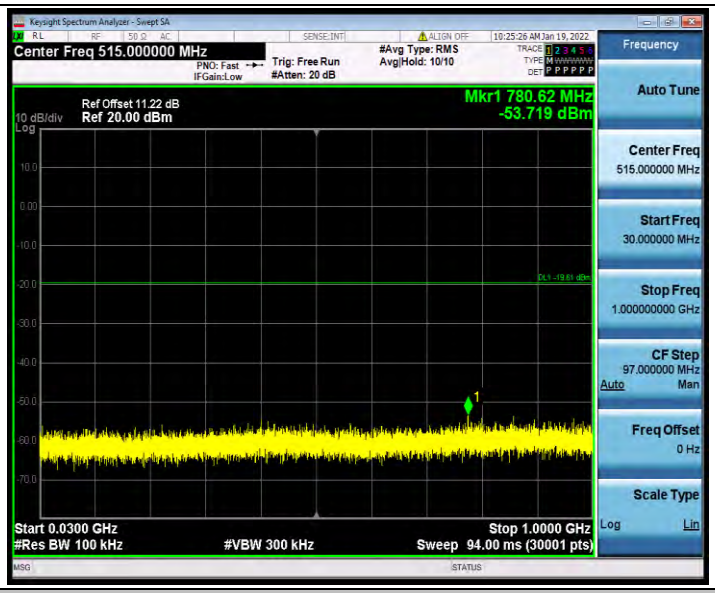
11N20SISO_Ant1_2412_30~1000



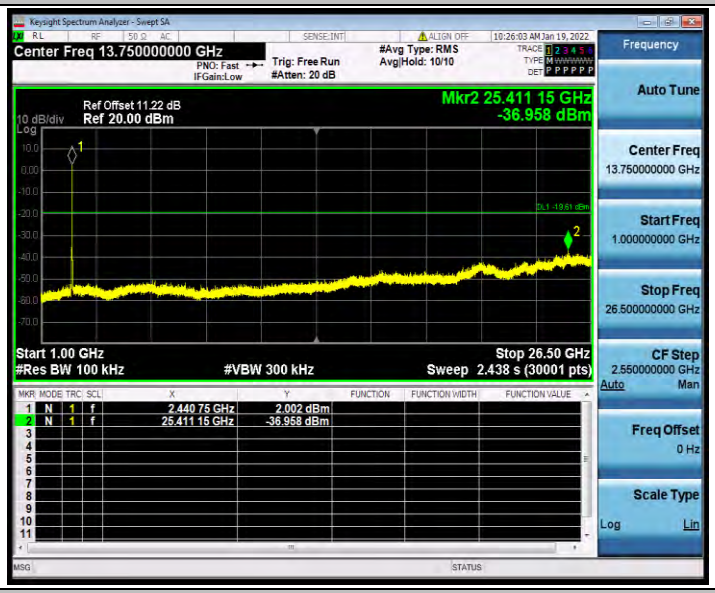
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference

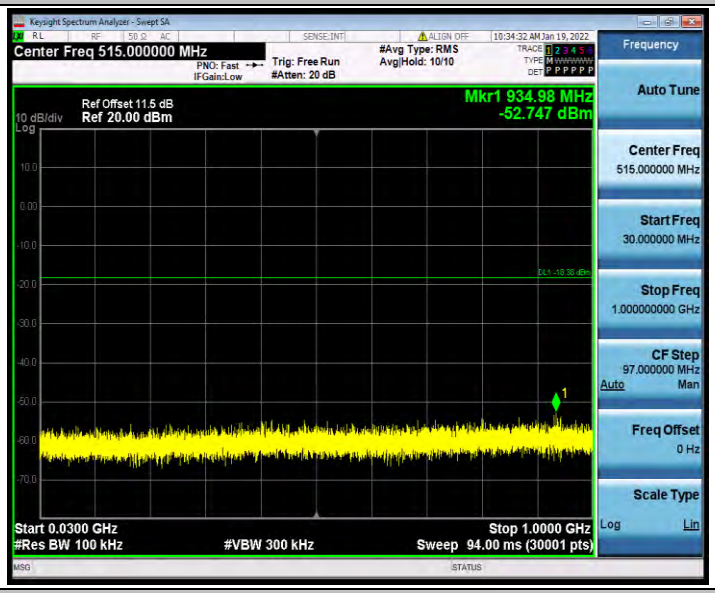


11N20SISO_Ant1_2437_30~1000

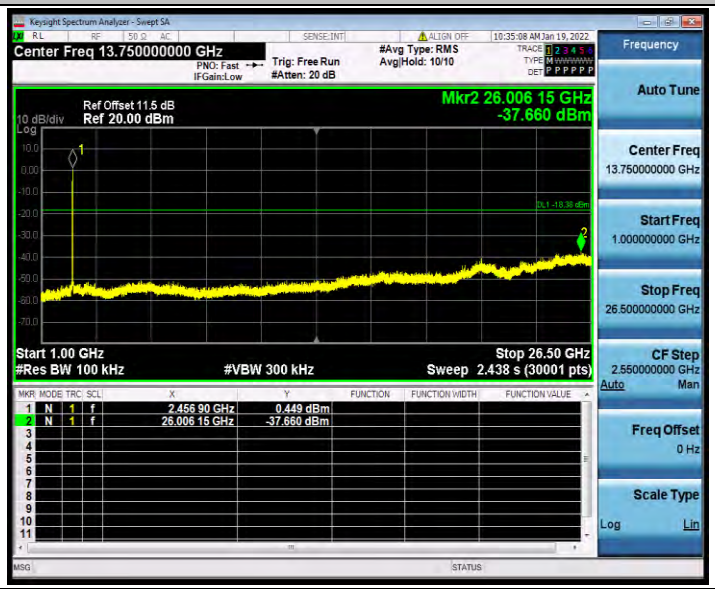


11N20SISO_Ant1_2437_1000~26500

11N20SISO_Ant1_2462_0~Reference

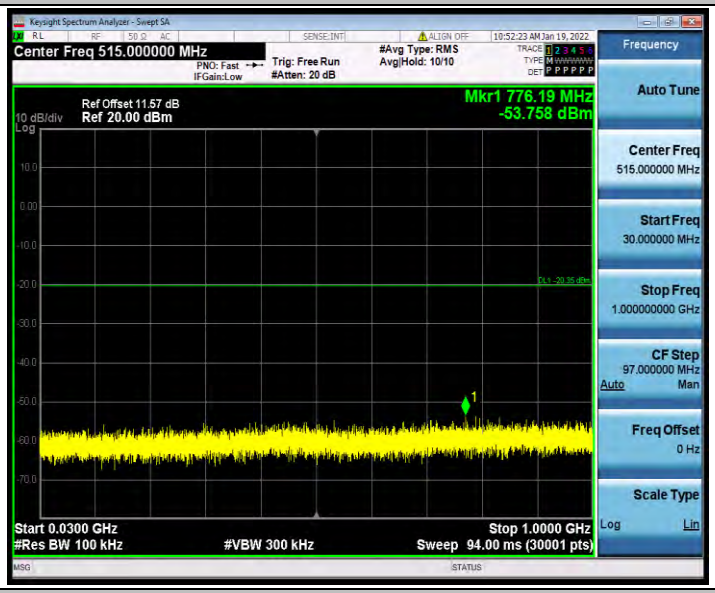


11N20SISO_Ant1_2462_30~1000

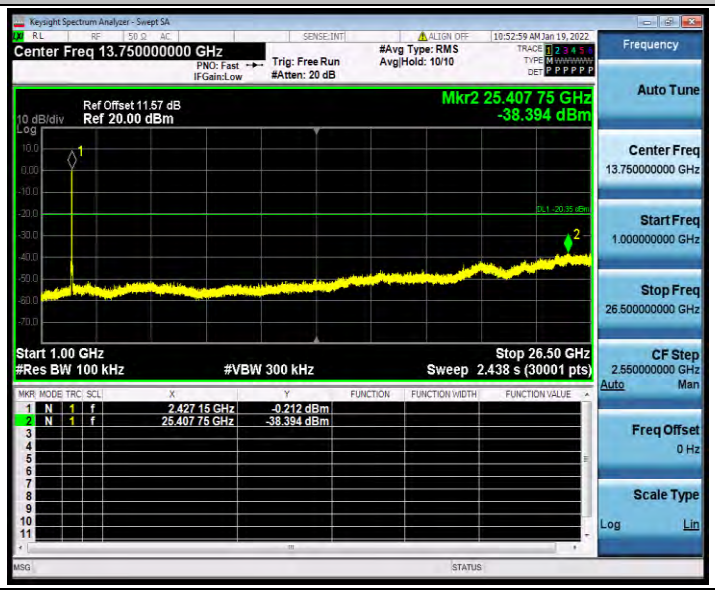


11N20SISO_Ant1_2462_1000~26500

11N40SISO_Ant1_2422_0~Reference

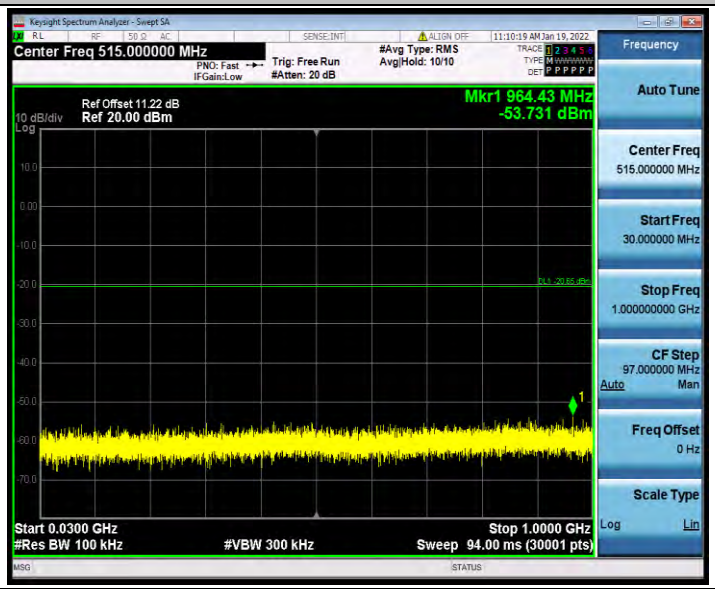


11N40SISO_Ant1_2422_30~1000

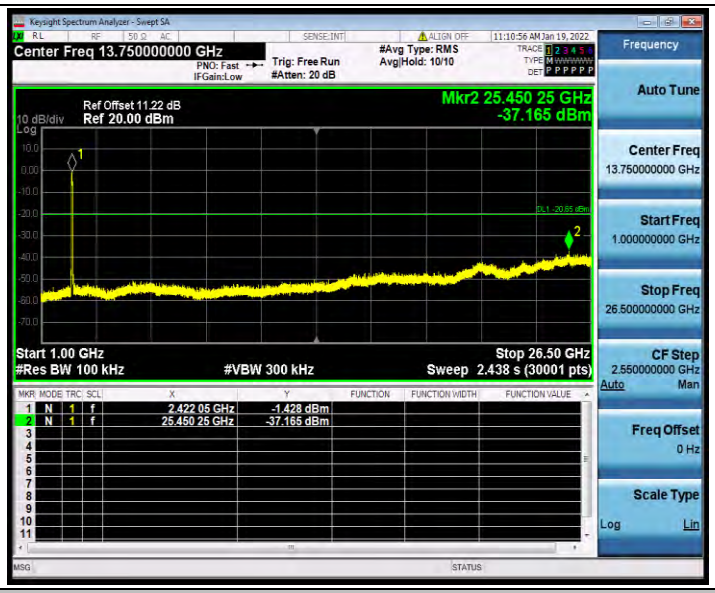


11N40SISO_Ant1_2422_1000~26500

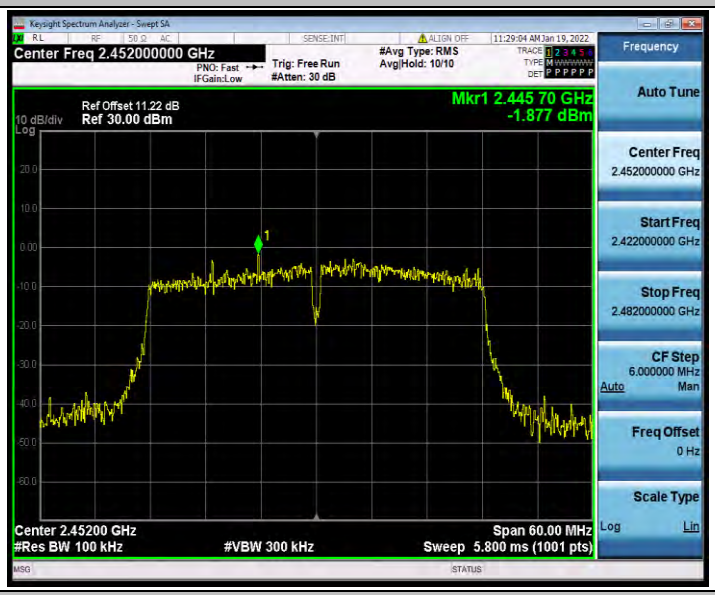
11N40SISO_Ant1_2437_0~Reference



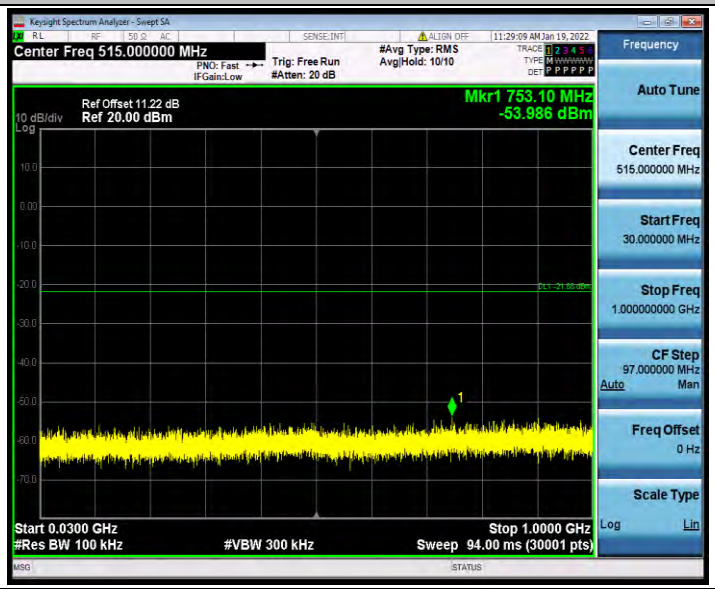
11N40SISO_Ant1_2437_30~1000



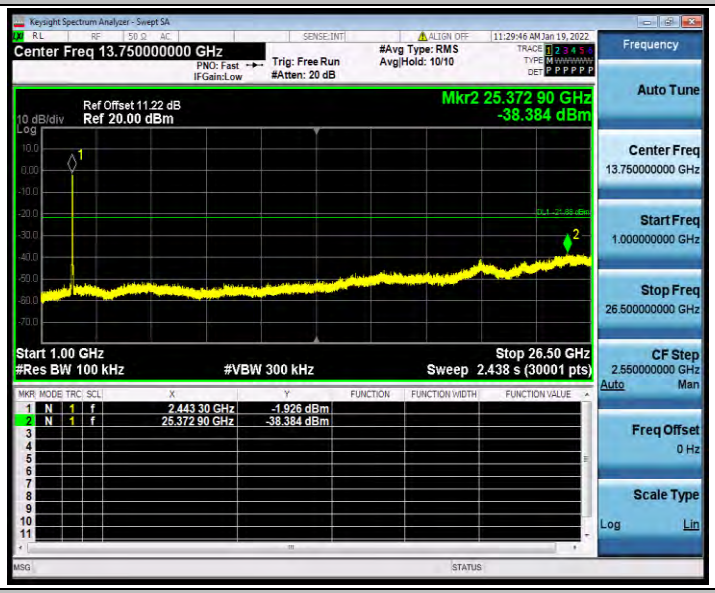
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



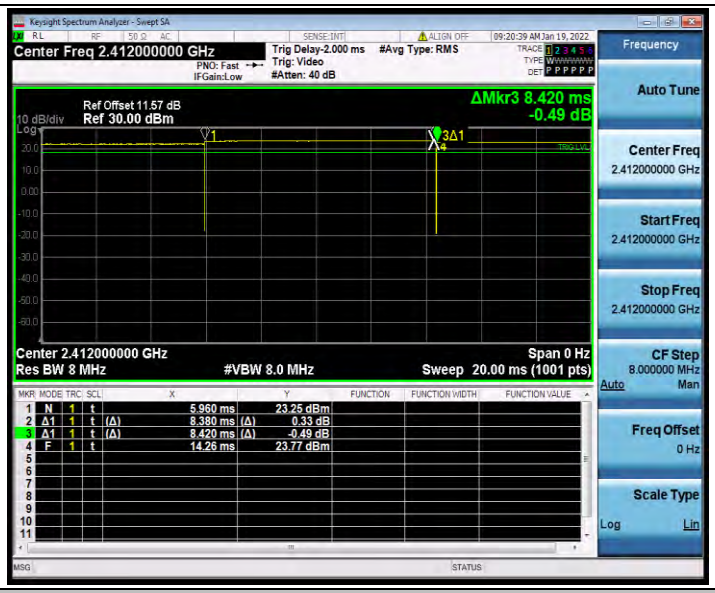
11N40SISO_Ant1_2452_1000~26500

Duty Cycle

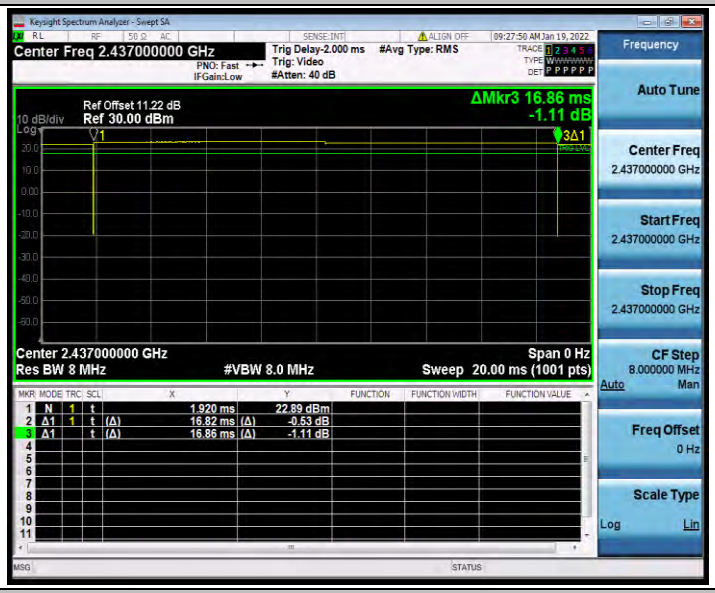
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.42	99.52	---	PASS
		2437	16.82	16.86	99.76	---	PASS
		2462	8.38	8.42	99.52	---	PASS
11G	Ant1	2412	1.39	1.44	96.53	---	PASS
		2437	1.39	1.44	96.53	---	PASS
		2462	1.39	1.44	96.53	---	PASS
11N20SISO	Ant1	2412	1.30	1.35	96.30	---	PASS
		2437	1.30	1.35	96.30	---	PASS
		2462	1.30	1.35	96.30	---	PASS
11N40SISO	Ant1	2422	0.64	0.69	92.75	---	PASS
		2437	0.64	0.69	92.75	---	PASS
		2452	0.64	0.69	92.75	---	PASS

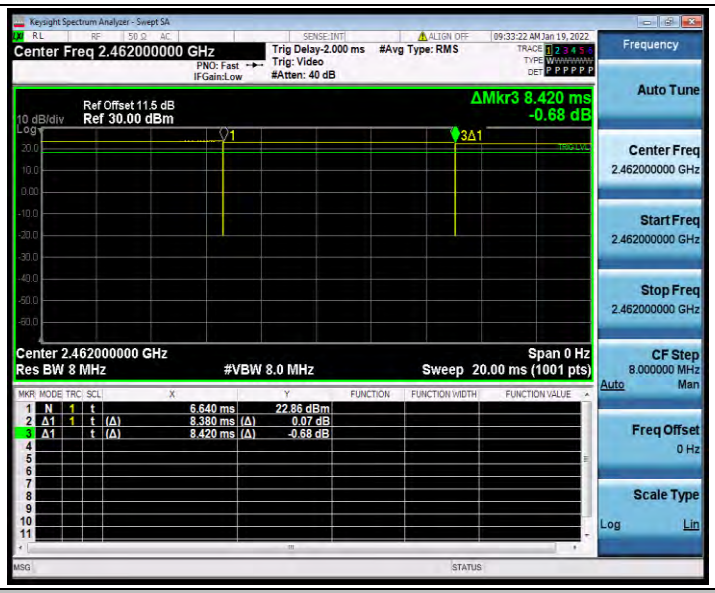
Test Graphs



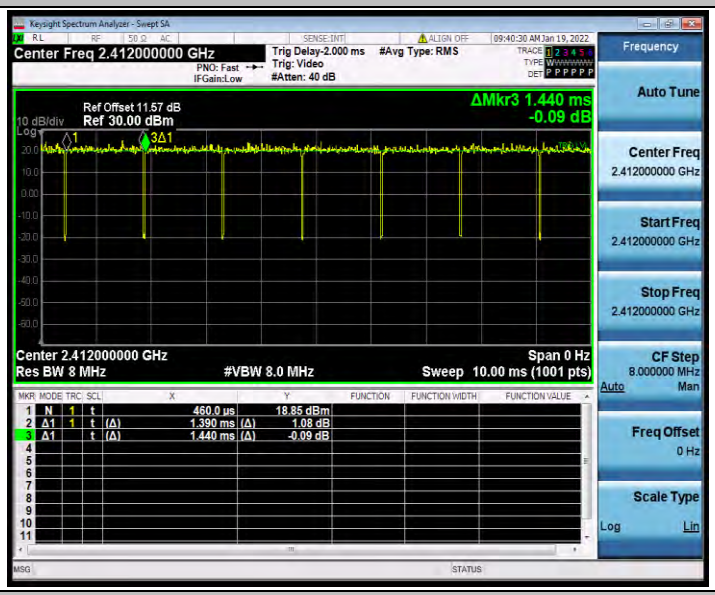
11B_Ant1_2412



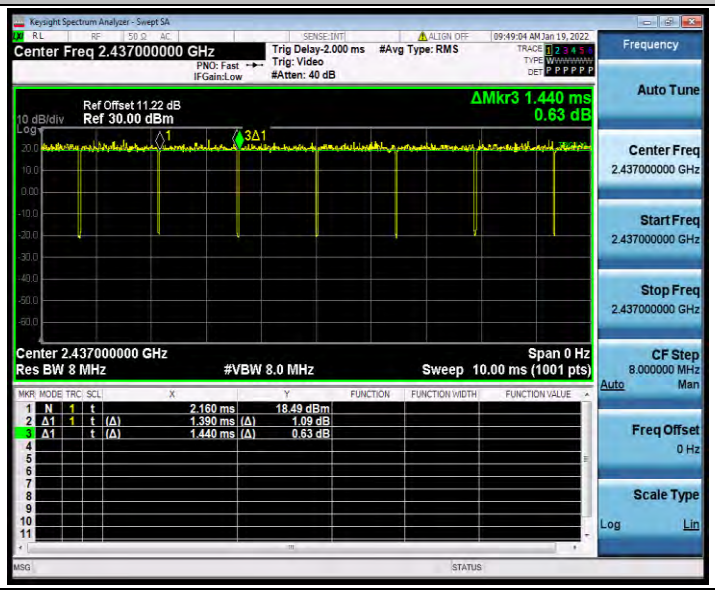
11B_Ant1_2437



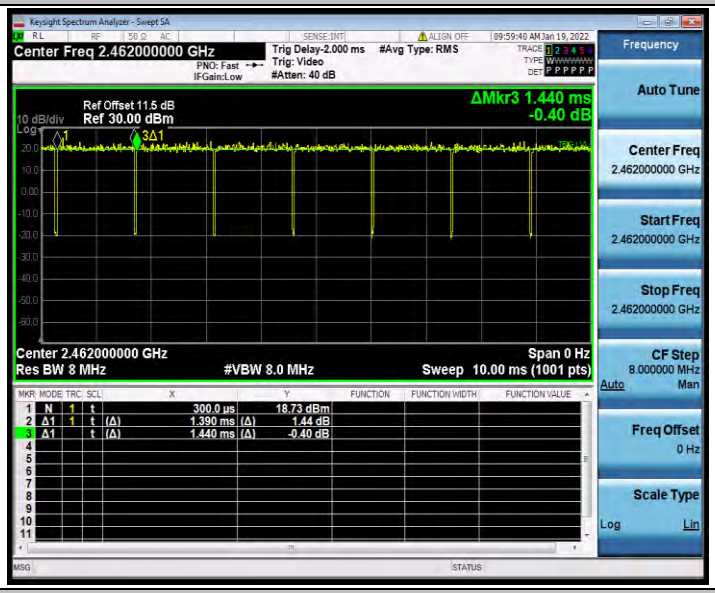
11B_Ant1_2462



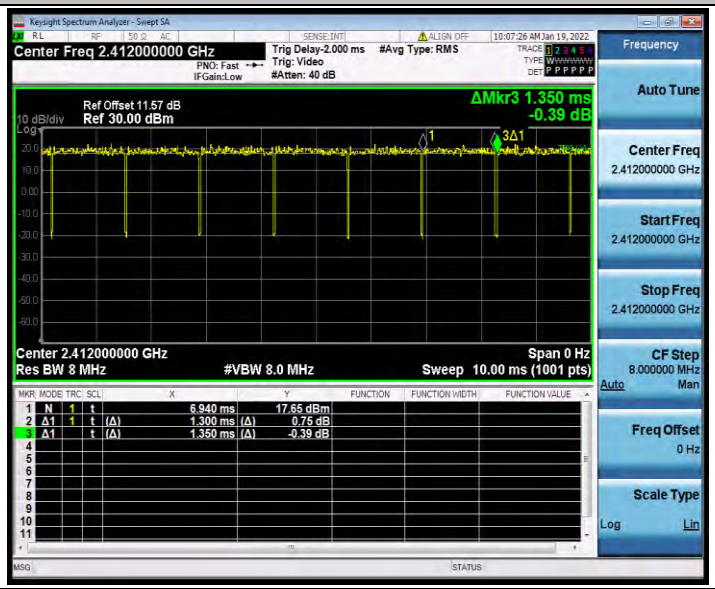
11G_Ant1_2412



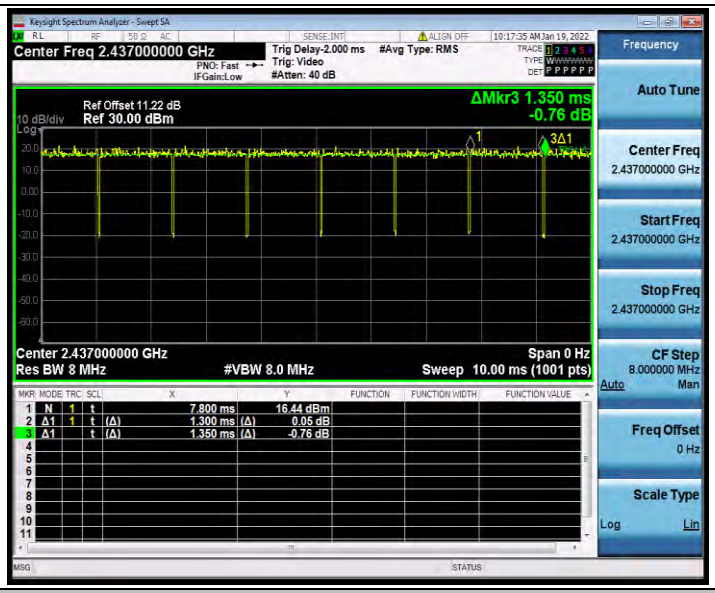
11G_Ant1_2437



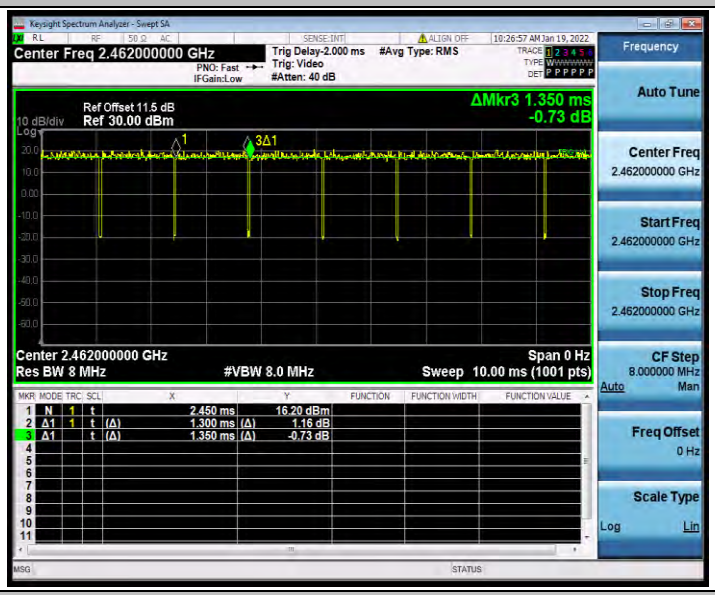
11G_Ant1_2462



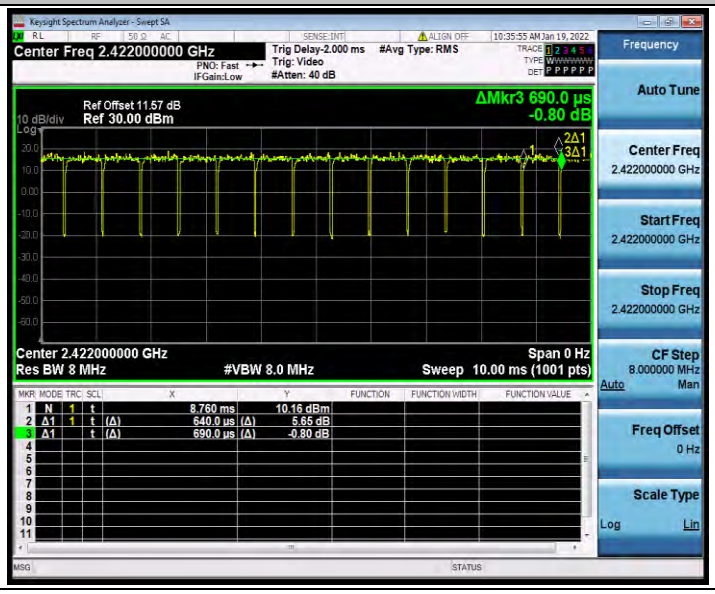
11N20SISO_Ant1_2412



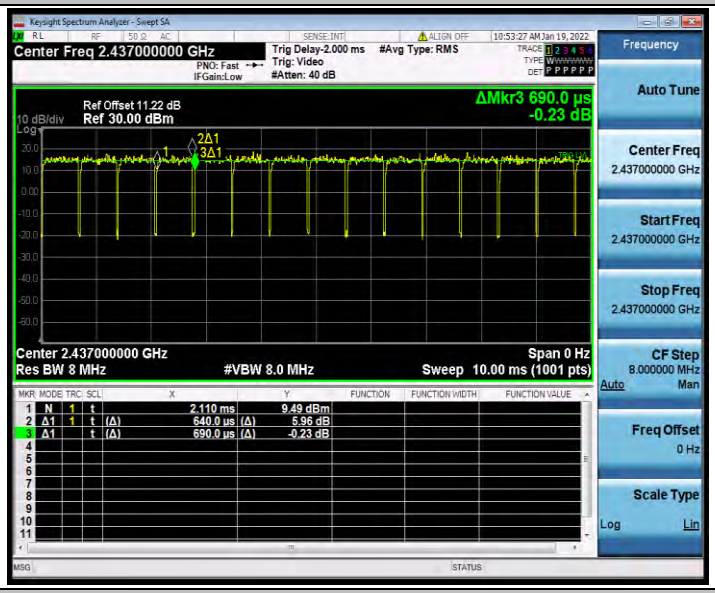
11N20SISO_Ant1_2437



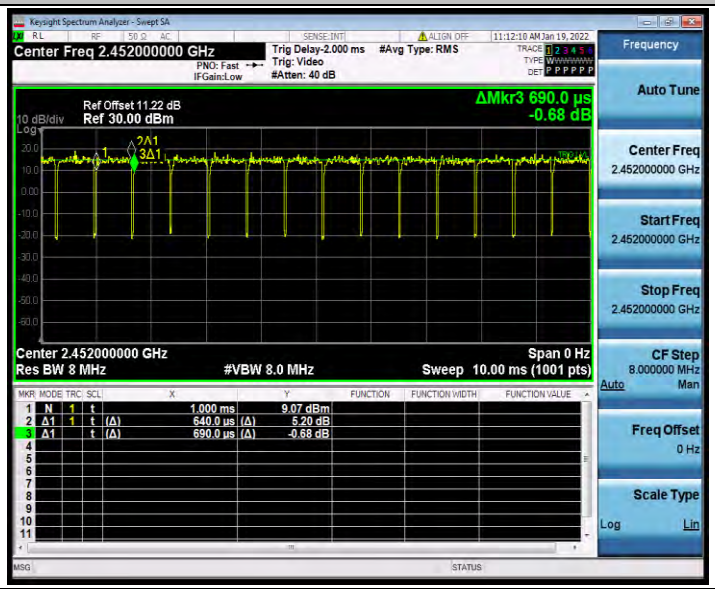
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

7 AppendixB

Appendix B：2.4G BLE

Duty Cycle

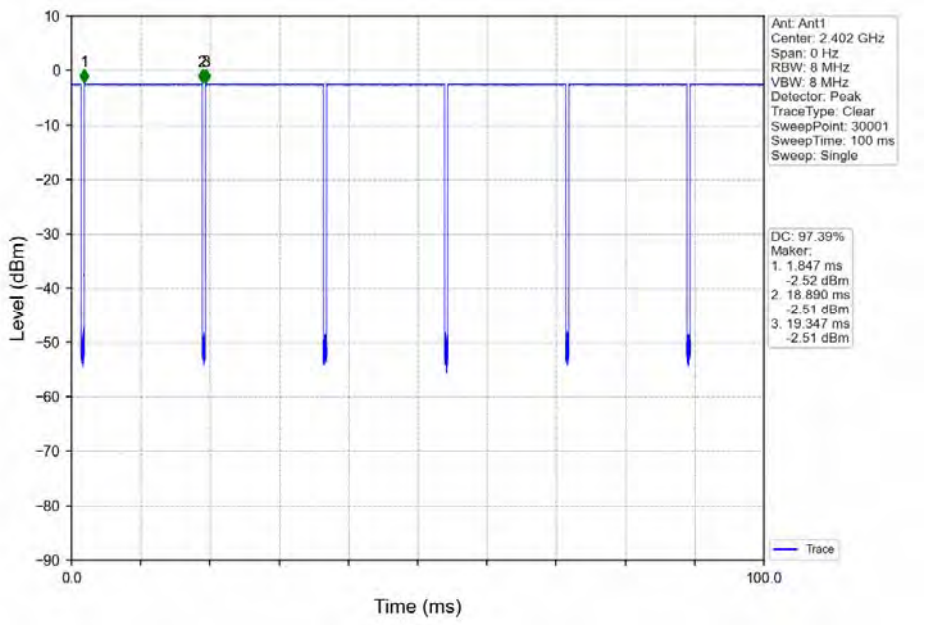
Ant1

Test Result

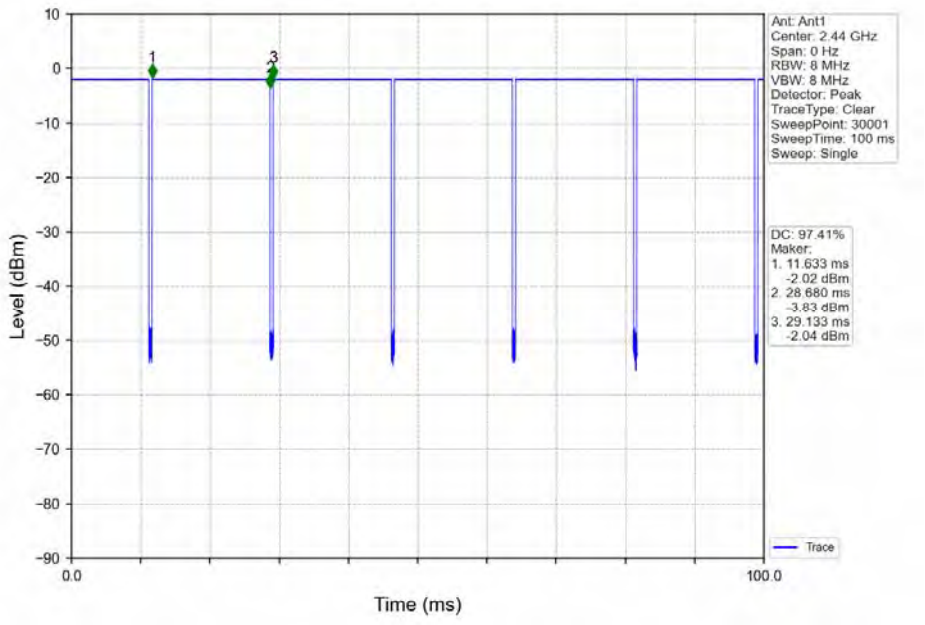
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
S8	SISO	2402	17.043	17.500	97.39	0.11	0.00
		2440	17.047	17.500	97.41	0.11	0.00
		2480	17.047	17.500	97.41	0.11	0.00
S2	SISO	2402	4.547	5.001	90.92	0.41	0.04
		2440	4.547	5.000	90.94	0.41	0.03
		2480	4.547	5.000	90.94	0.41	0.03
1M	SISO	2402	2.124	2.500	84.96	0.71	0.03
		2440	2.124	2.499	84.99	0.71	0.03
		2480	2.124	2.499	84.99	0.71	0.03
2M	SISO	2402	1.069	1.875	57.01	2.44	0.03
		2440	1.069	1.875	57.01	2.44	0.03
		2480	1.069	1.875	57.01	2.44	0.02

Test Graph

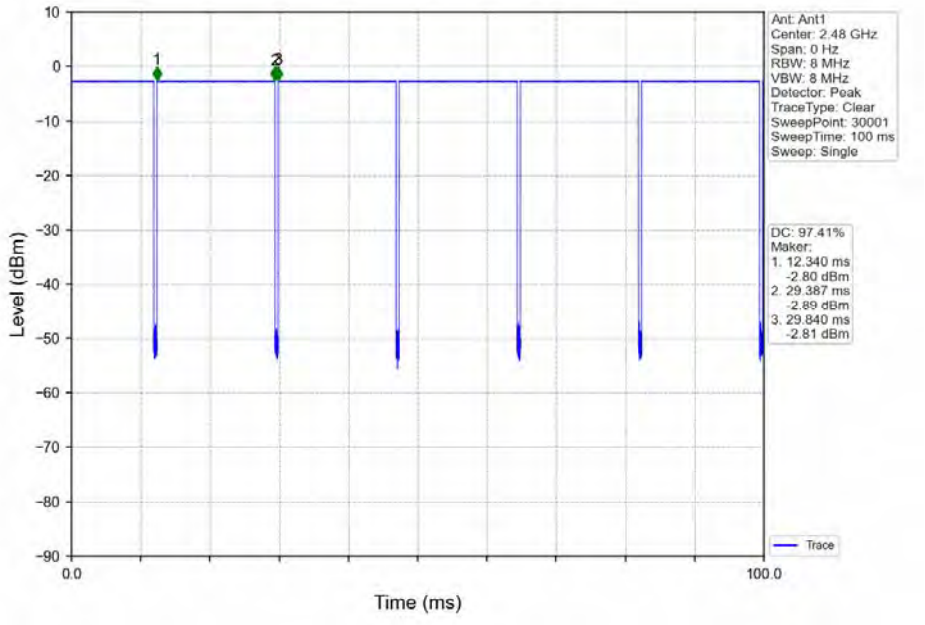
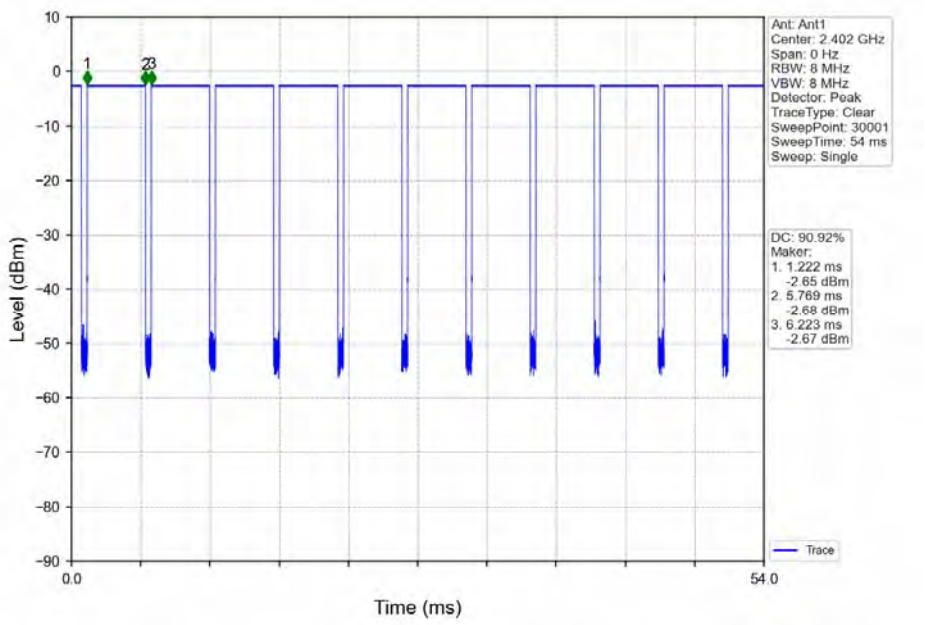
S8_LCH_2402MHz_DataRate=_Ant1_NTNV



S8_MCH_2440MHz_DataRate=_Ant1_NTNV



S8_HCH_2480MHz_DataRate=_Ant1_NTNV



S2_LCH_2402MHz_DataRate=_Ant1_NTNV