



## Appendix for Test report



## Appendix A: DTS (6 dB) Bandwidth

### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.120	2407.960	2416.080	---	PASS
		2437	8.200	2432.920	2441.120	---	PASS
		2462	8.640	2457.440	2466.080	---	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	---	PASS
		2417	16.440	2408.800	2425.240	---	PASS
		2437	16.440	2428.800	2445.240	---	PASS
		2457	16.440	2448.800	2465.240	---	PASS
		2462	16.480	2453.760	2470.240	---	PASS
11N20SISO	Ant1	2412	17.680	2403.200	2420.880	---	PASS
		2417	17.400	2408.440	2425.840	---	PASS
		2437	17.680	2428.160	2445.840	---	PASS
		2457	17.400	2448.440	2465.840	---	PASS
		2462	17.640	2453.200	2470.840	---	PASS
11N40SISO	Ant1	2422	17.760	2413.120	2430.880	---	PASS
		2427	17.760	2418.120	2435.880	---	PASS
		2437	17.760	2428.120	2445.880	---	PASS
		2447	17.360	2438.520	2455.880	---	PASS
		2452	17.680	2443.200	2460.880	---	PASS



### Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462



11G\_Ant1\_2412



11G\_Ant1\_2417



11G\_Ant1\_2437



11G\_Ant1\_2457



11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2417



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2457

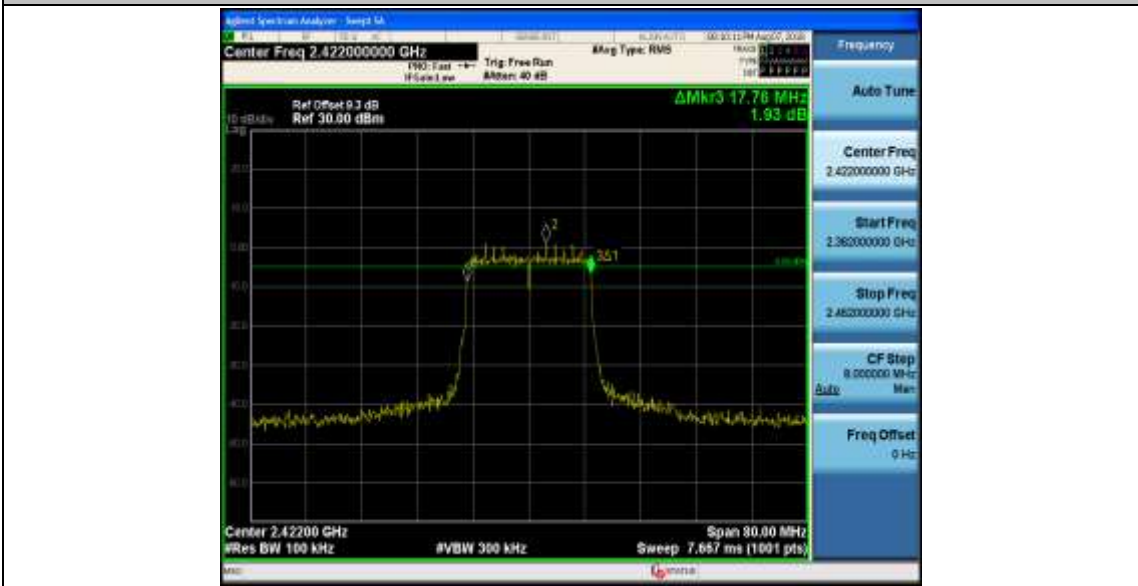


11N20SISO\_Ant1\_2462

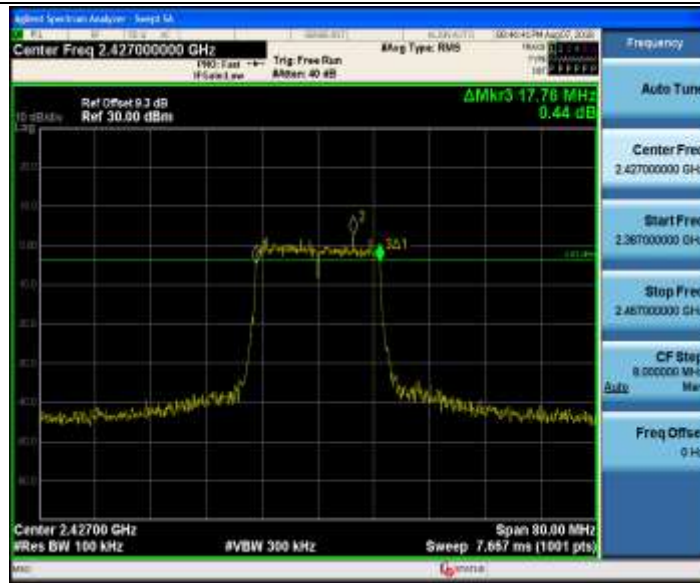




11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2427



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2447



11N40SISO\_Ant1\_2452





## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.971	2406.738	2417.709	---	PASS
		2437	11.011	2431.581	2442.592	---	PASS
		2462	11.036	2456.451	2467.487	---	PASS
11G	Ant1	2412	16.718	2403.737	2420.455	---	PASS
		2417	16.767	2408.667	2425.434	---	PASS
		2437	16.957	2428.579	2445.536	---	PASS
		2457	16.684	2448.736	2465.420	---	PASS
		2462	16.797	2453.618	2470.415	---	PASS
11N20SISO	Ant1	2412	17.754	2403.206	2420.960	---	PASS
		2417	17.706	2408.218	2425.924	---	PASS
		2437	17.803	2428.142	2445.945	---	PASS
		2457	17.663	2448.205	2465.868	---	PASS
		2462	17.721	2453.167	2470.888	---	PASS
11N40SISO	Ant1	2422	18.009	2413.112	2431.121	---	PASS
		2427	17.962	2418.063	2436.025	---	PASS
		2437	18.039	2428.078	2446.117	---	PASS
		2447	17.996	2438.197	2456.193	---	PASS
		2452	18.012	2443.115	2461.127	---	PASS



### Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462



11G\_Ant1\_2412



11G\_Ant1\_2417



11G\_Ant1\_2437



11G\_Ant1\_2457





11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

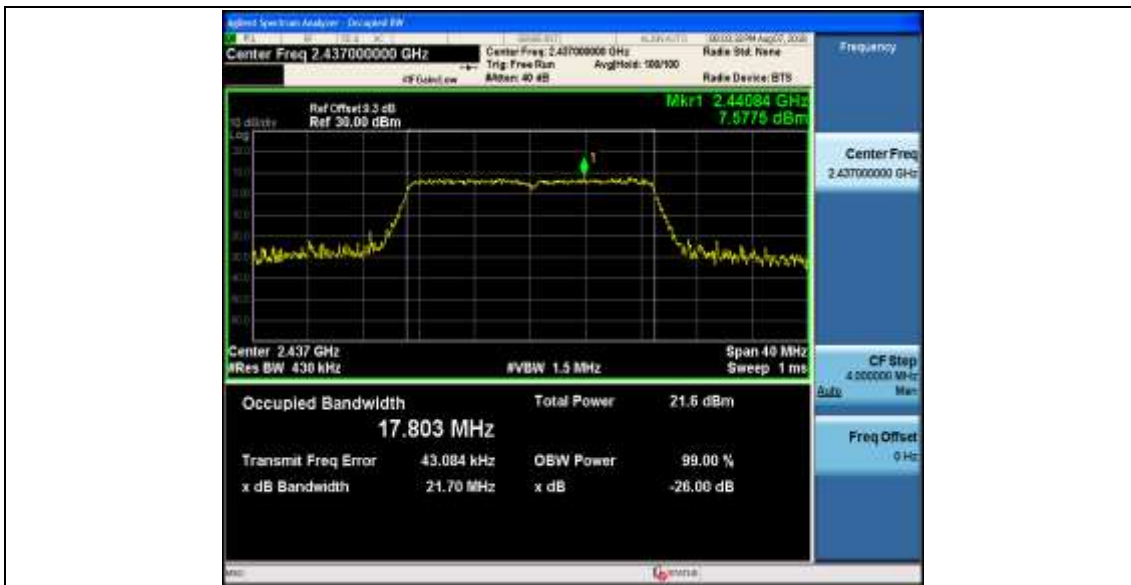




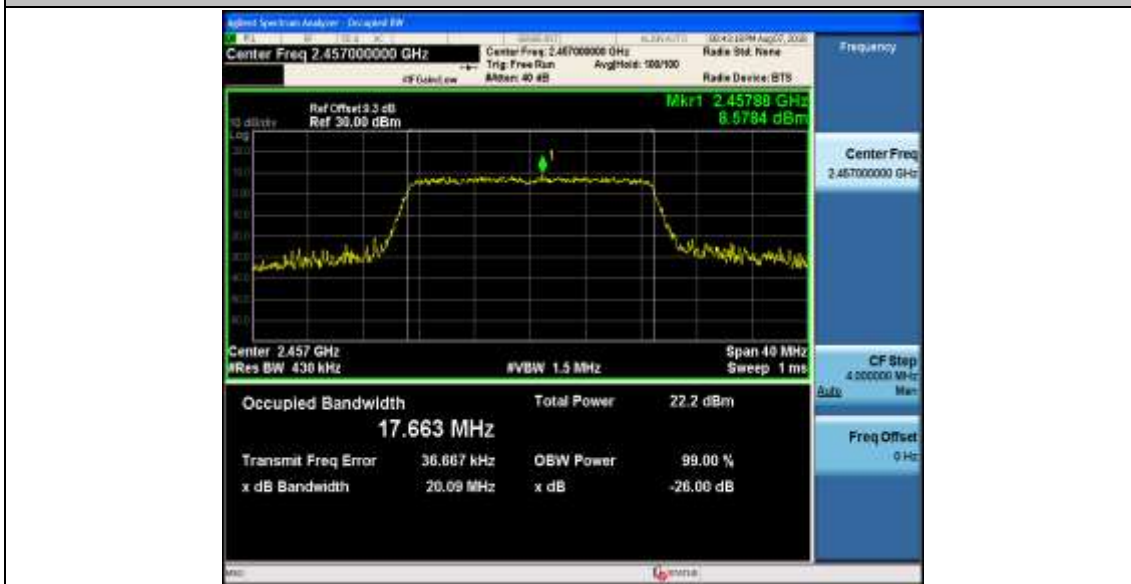
11N20SISO\_Ant1\_2417



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2457



11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2427



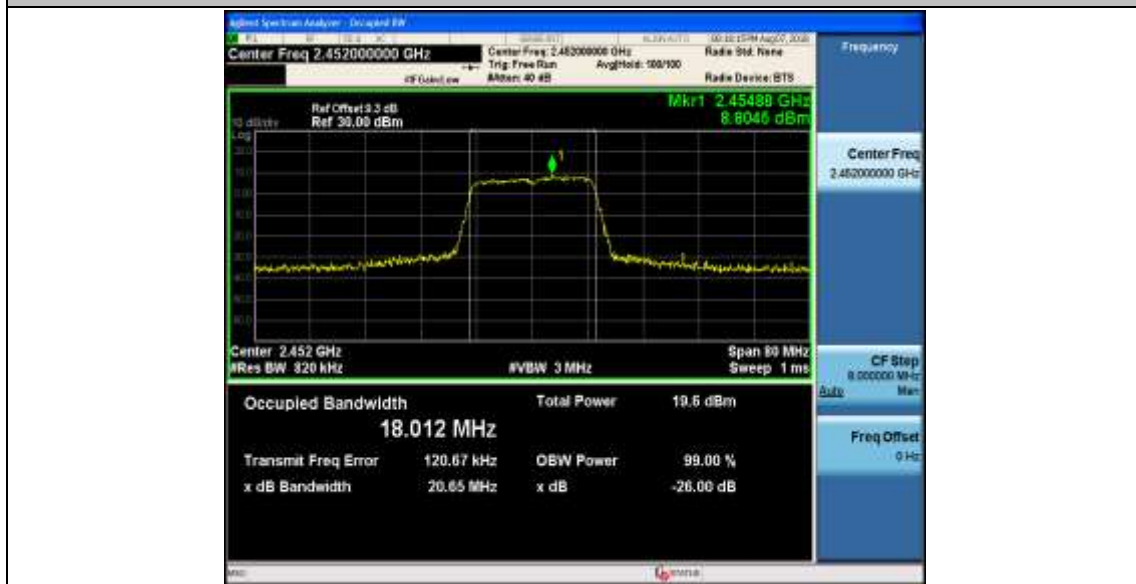
11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2447



11N40SISO\_Ant1\_2452





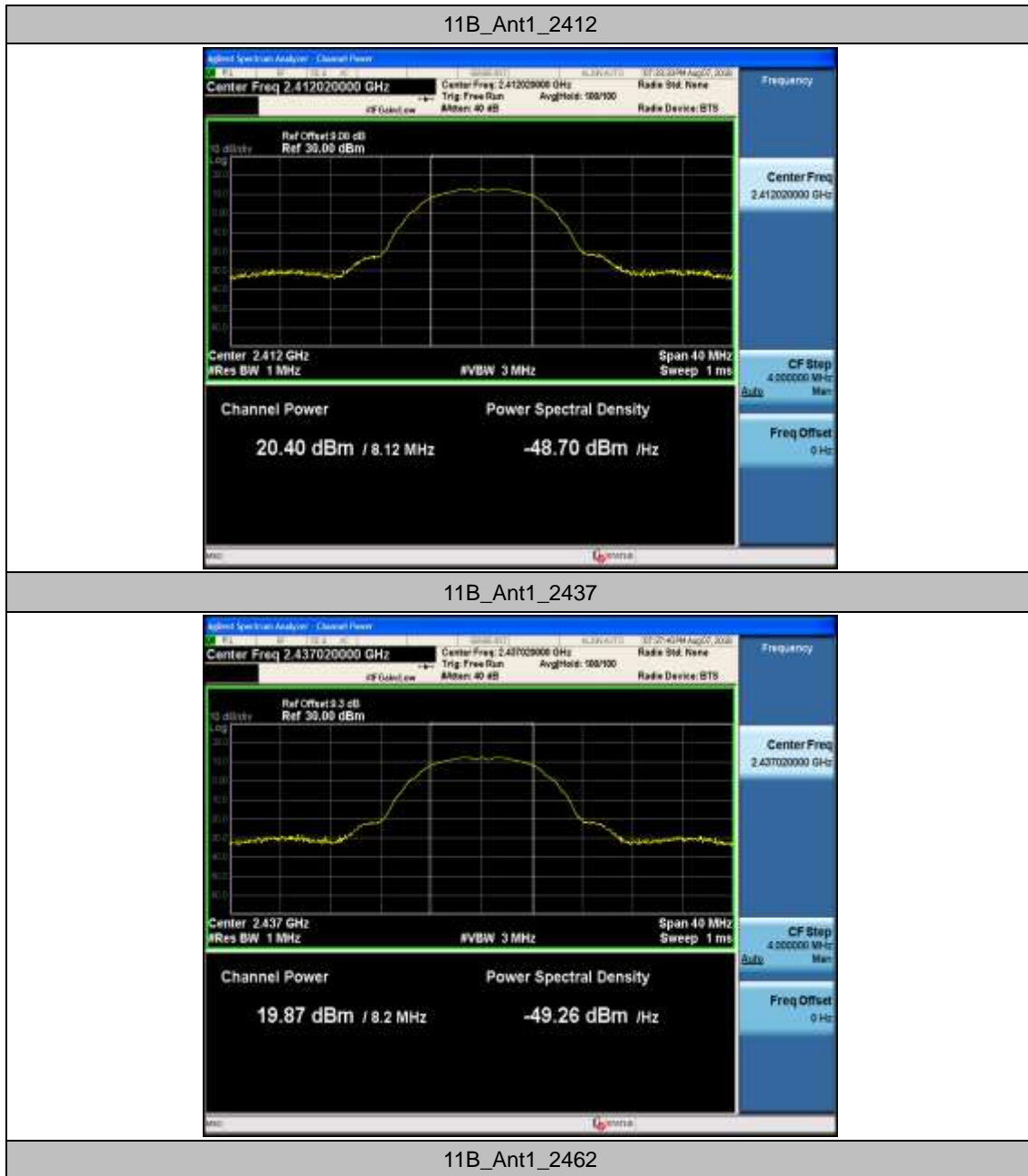
## Appendix C: Maximum Peak conducted output power

### Test Result

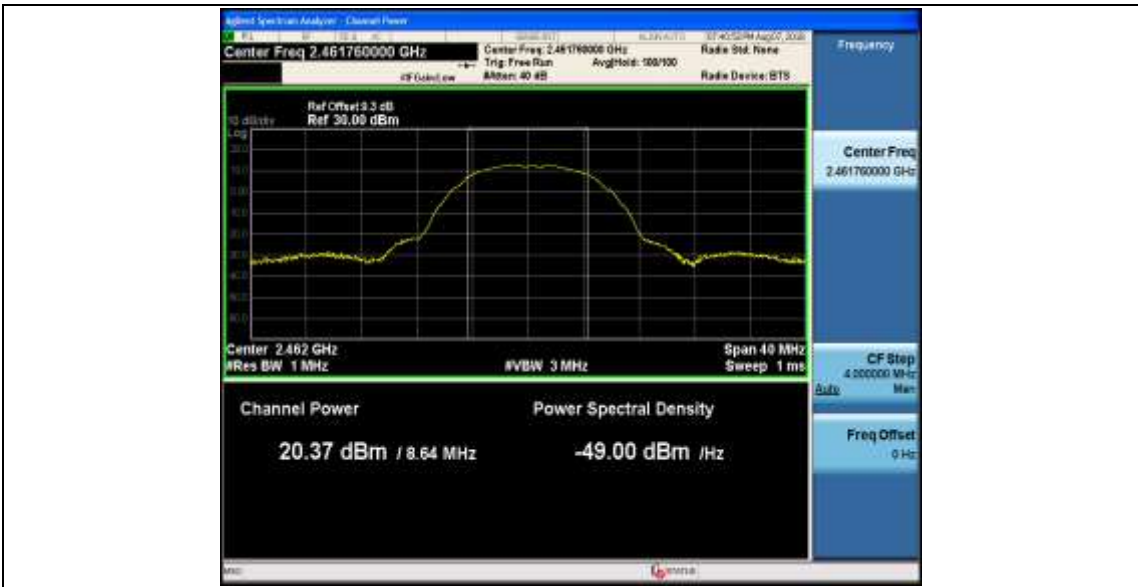
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	20.40	30	PASS
		2437	19.88	30	PASS
		2462	20.37	30	PASS
11G	Ant1	2412	22.25	30	PASS
		2417	24.90	30	PASS
		2437	24.76	30	PASS
		2457	25.41	30	PASS
		2462	22.40	30	PASS
11N20SISO	Ant1	2412	20.80	30	PASS
		2417	23.42	30	PASS
		2437	22.56	30	PASS
		2457	23.10	30	PASS
		2462	20.93	30	PASS
11N40SISO	Ant1	2422	19.75	30	PASS
		2427	21.53	30	PASS
		2437	21.43	30	PASS
		2447	21.91	30	PASS
		2452	19.83	30	PASS



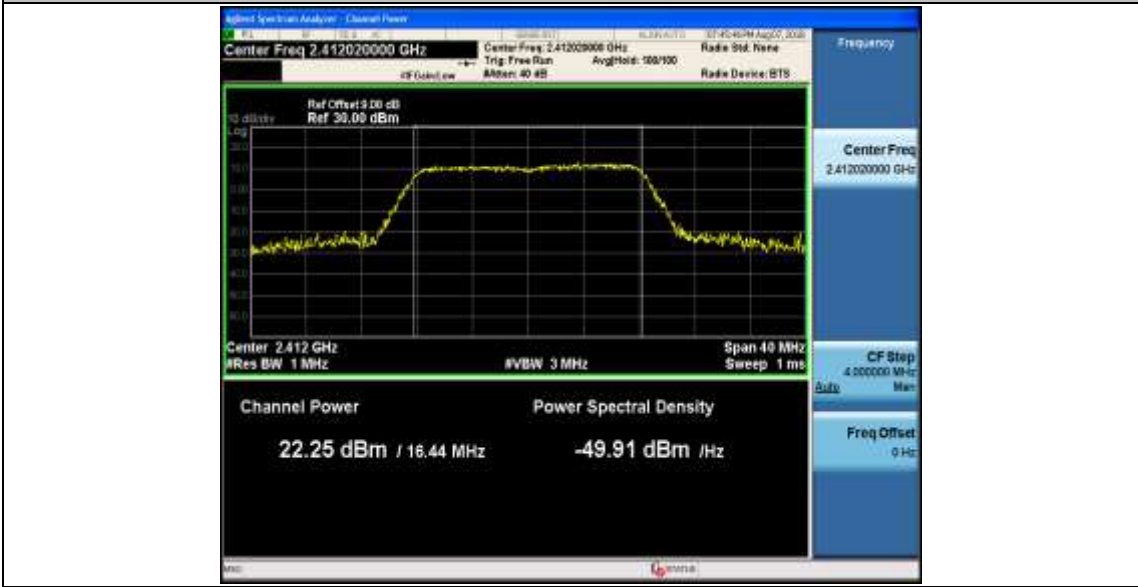
### Test Graphs







11G\_Ant1\_2412



11G\_Ant1\_2417

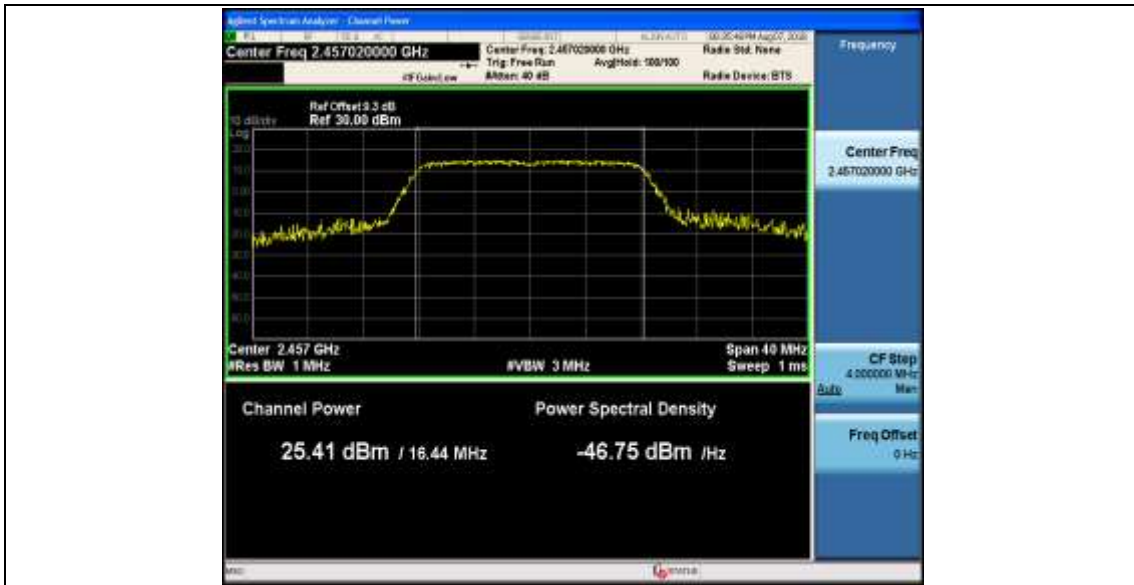




11G\_Ant1\_2437



11G\_Ant1\_2457



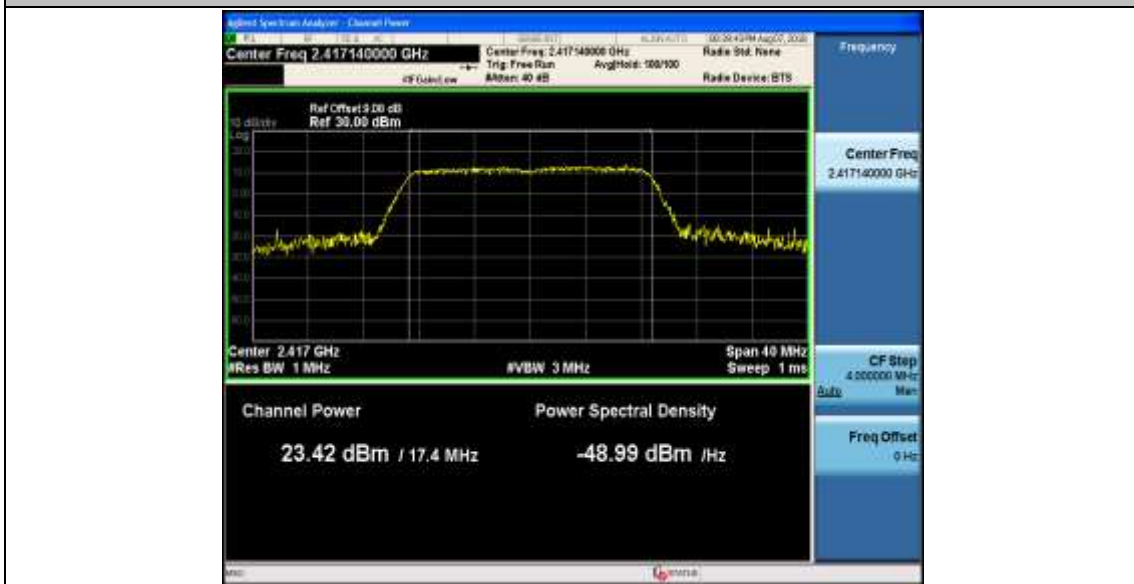
11G\_Ant1\_2462



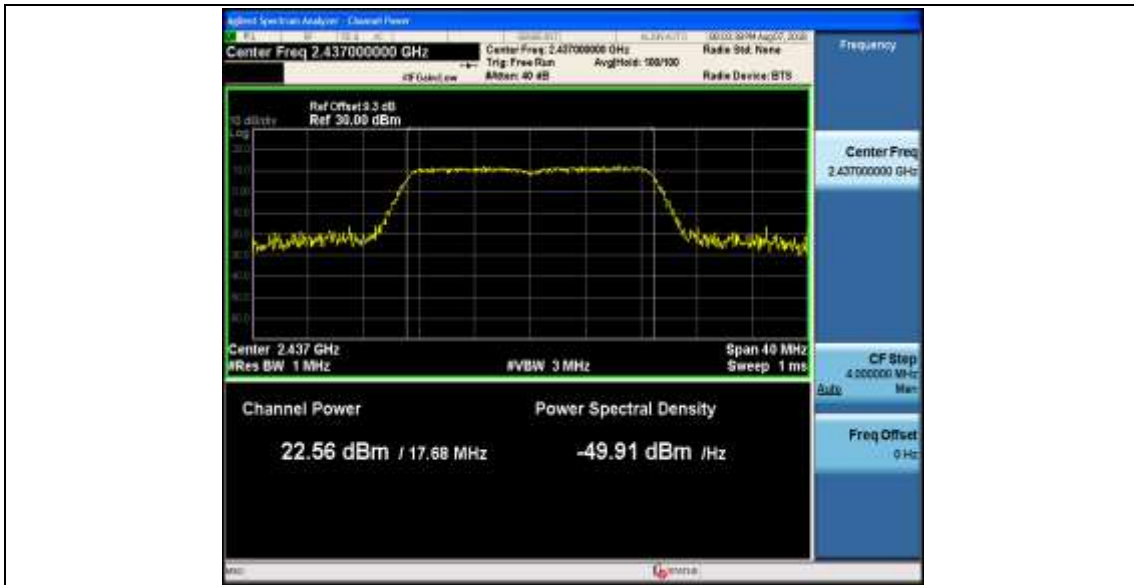
11N20SISO\_Ant1\_2412



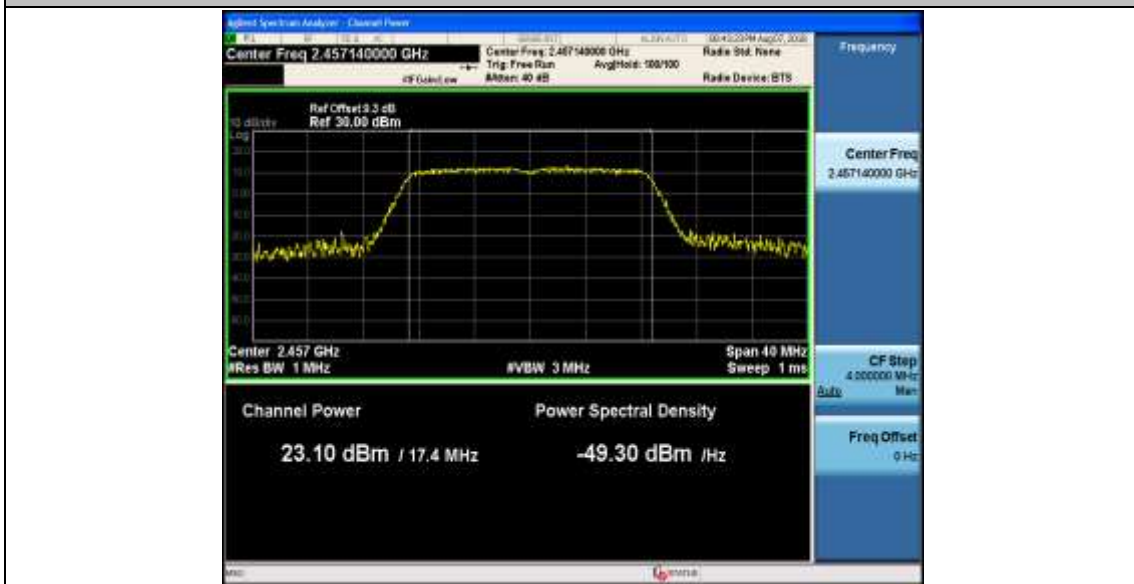
11N20SISO\_Ant1\_2417



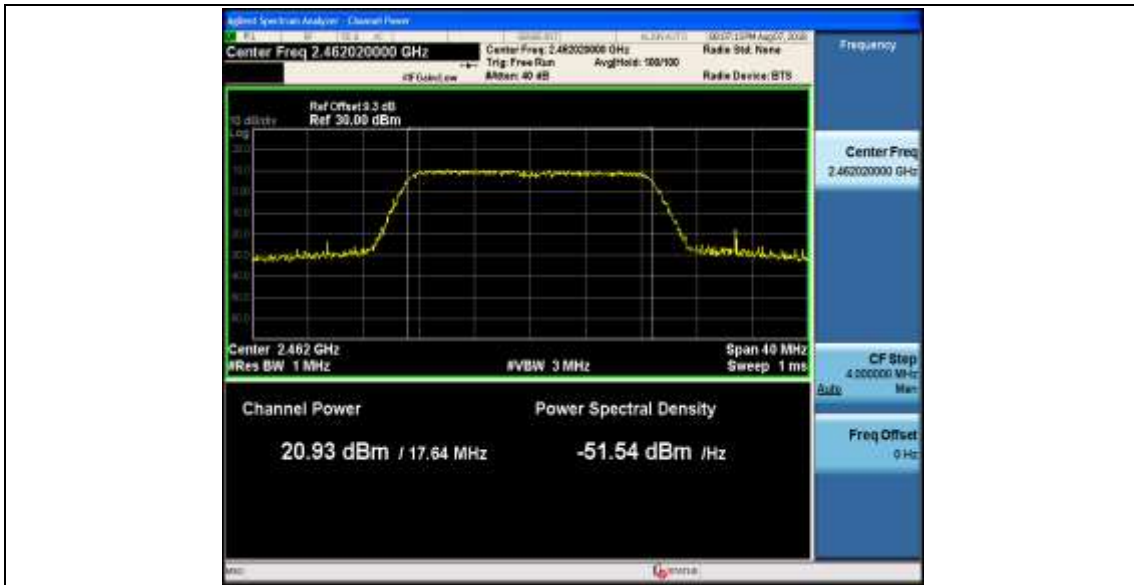
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2457



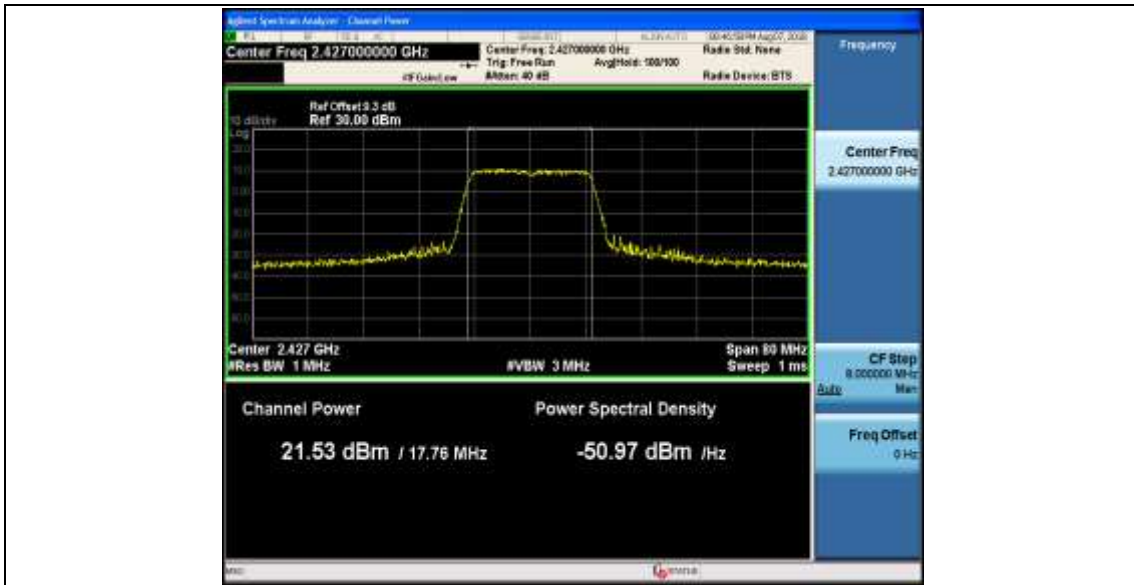
11N20SISO\_Ant1\_2462



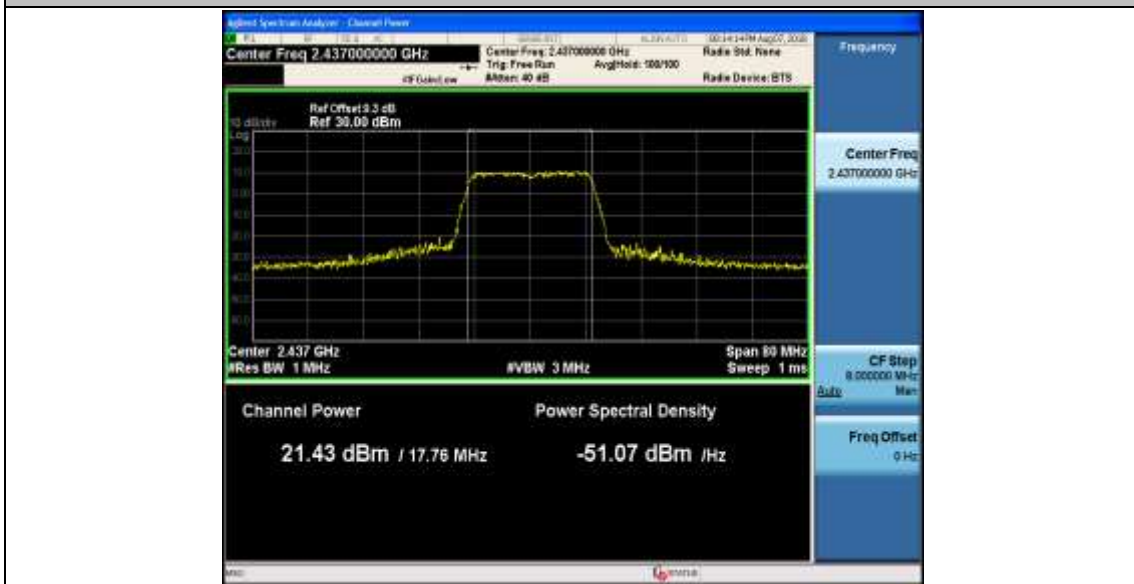
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2427

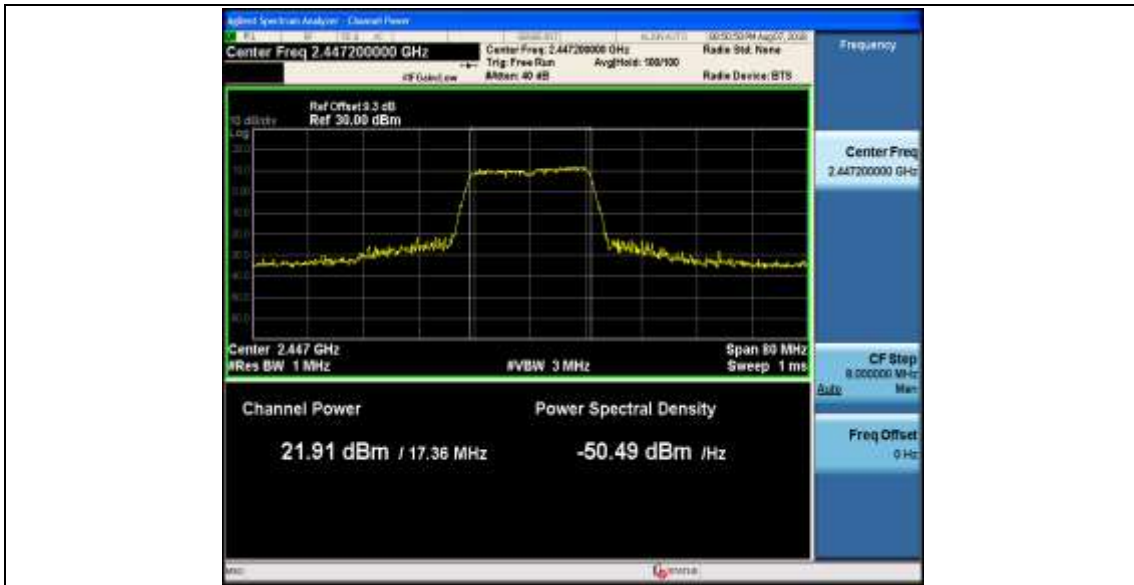


11N40SISO\_Ant1\_2437

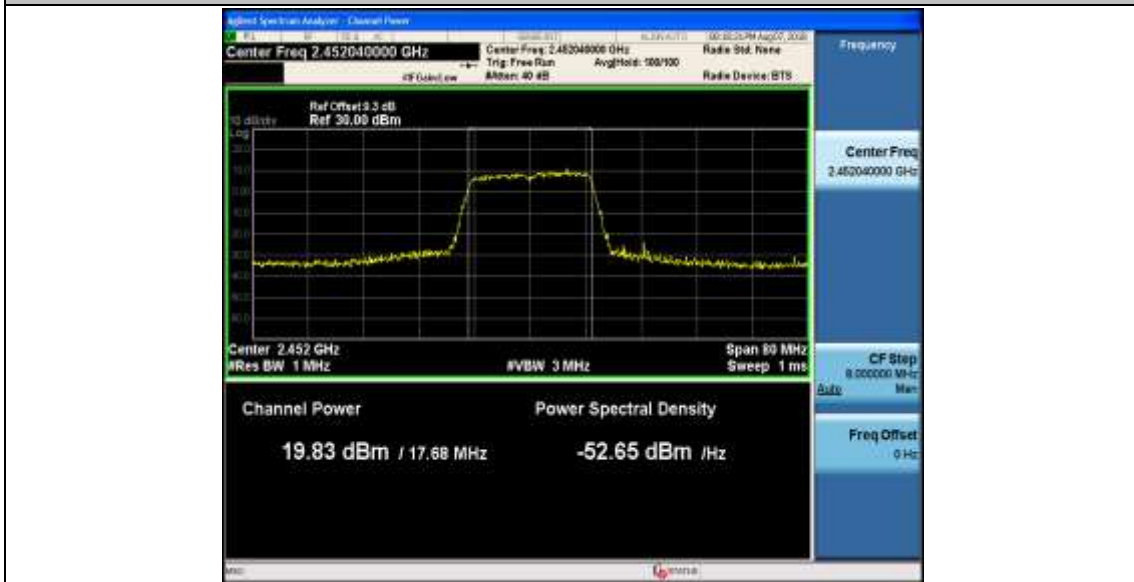


11N40SISO\_Ant1\_2447





11N40SISO\_Ant1\_2452





## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result	Limit	Verdict
11B	Ant1	2412	-0.26	8	PASS
		2437	1.73	8	PASS
		2462	-0.57	8	PASS
11G	Ant1	2412	-4.49	8	PASS
		2417	-0.67	8	PASS
		2437	-2.1	8	PASS
		2457	-3.2	8	PASS
		2462	-5.66	8	PASS
11N20SISO	Ant1	2412	-8.5	8	PASS
		2417	-4.29	8	PASS
		2437	-5.11	8	PASS
		2457	-3.37	8	PASS
		2462	-6.16	8	PASS
11N40SISO	Ant1	2422	-9.04	8	PASS
		2427	-4.72	8	PASS
		2437	-5.67	8	PASS
		2447	-4.51	8	PASS
		2452	-4.33	8	PASS





### Test Graphs

11B\_Ant1\_2412



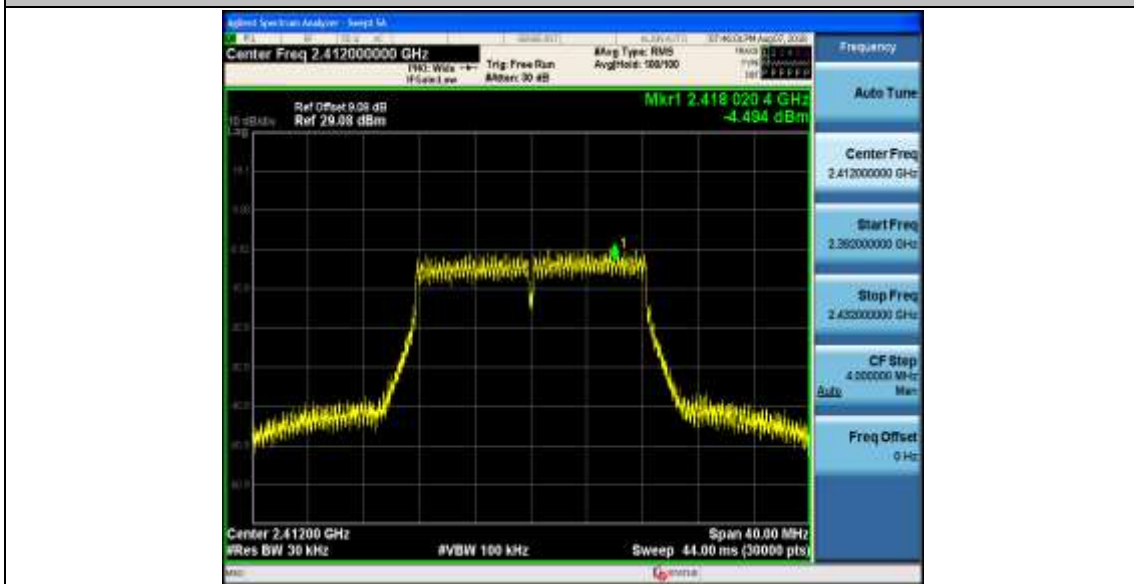
11B\_Ant1\_2437



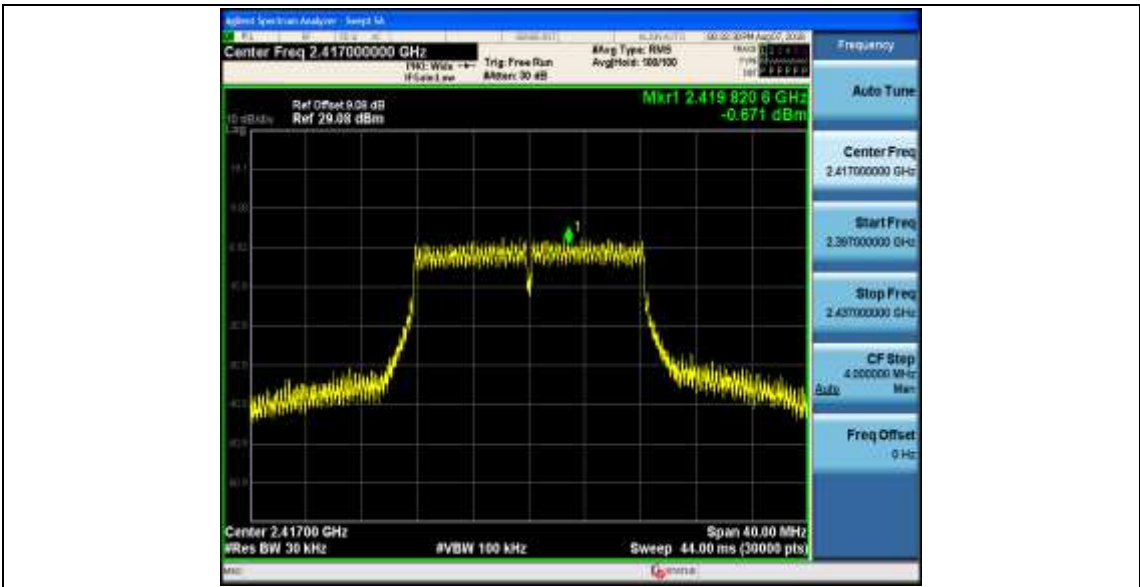
11B\_Ant1\_2462



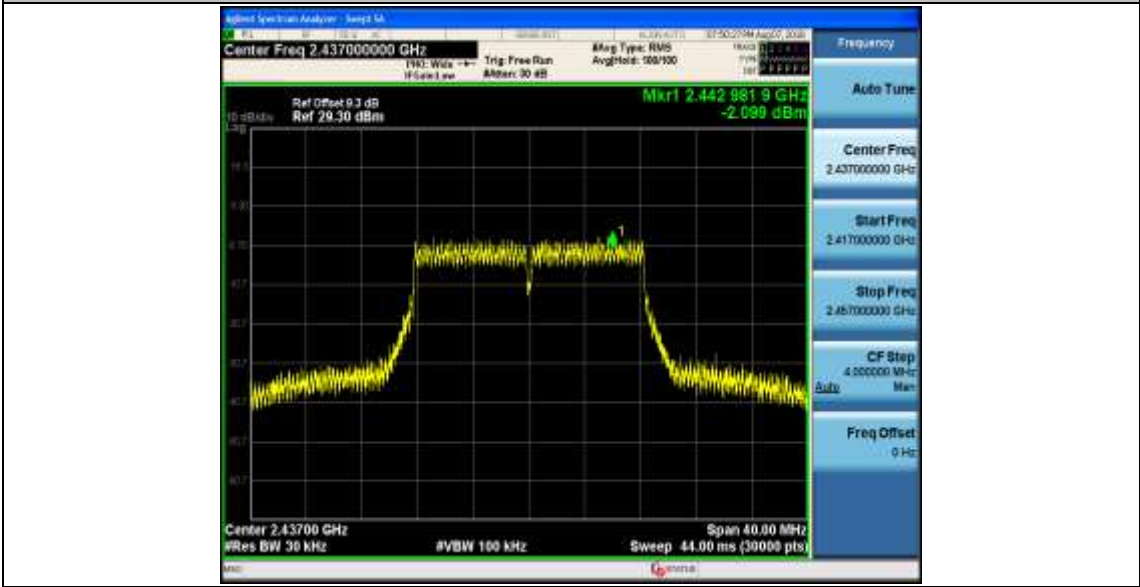
11G\_Ant1\_2412



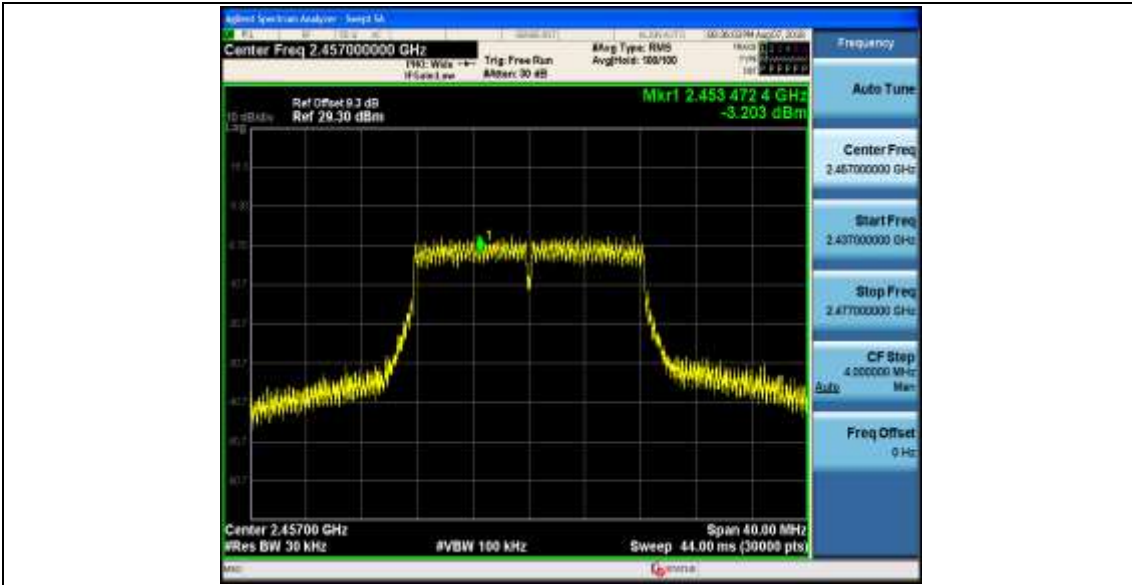
11G\_Ant1\_2417



11G\_Ant1\_2437



11G\_Ant1\_2457



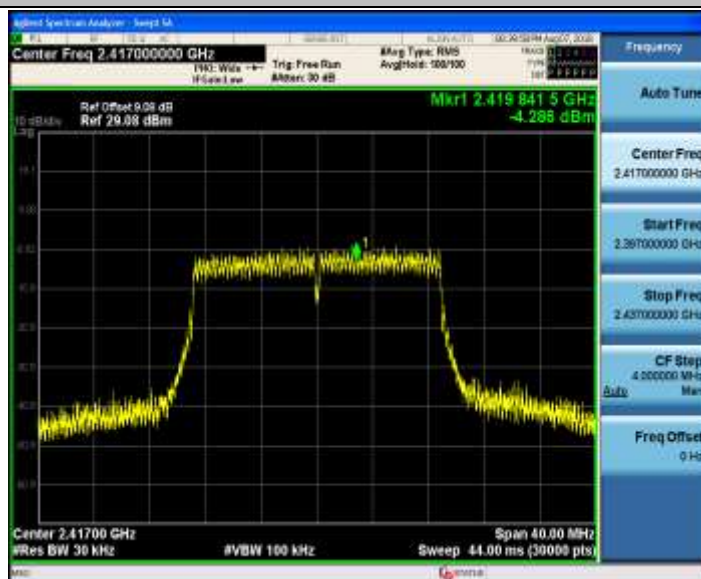
11G\_Ant1\_2462



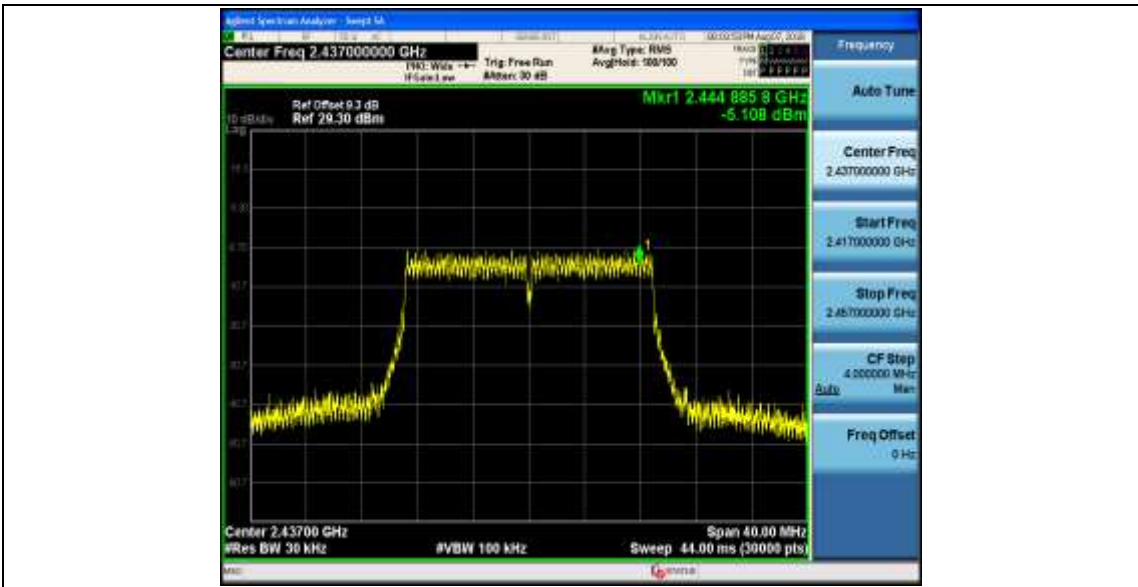
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2417



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2457

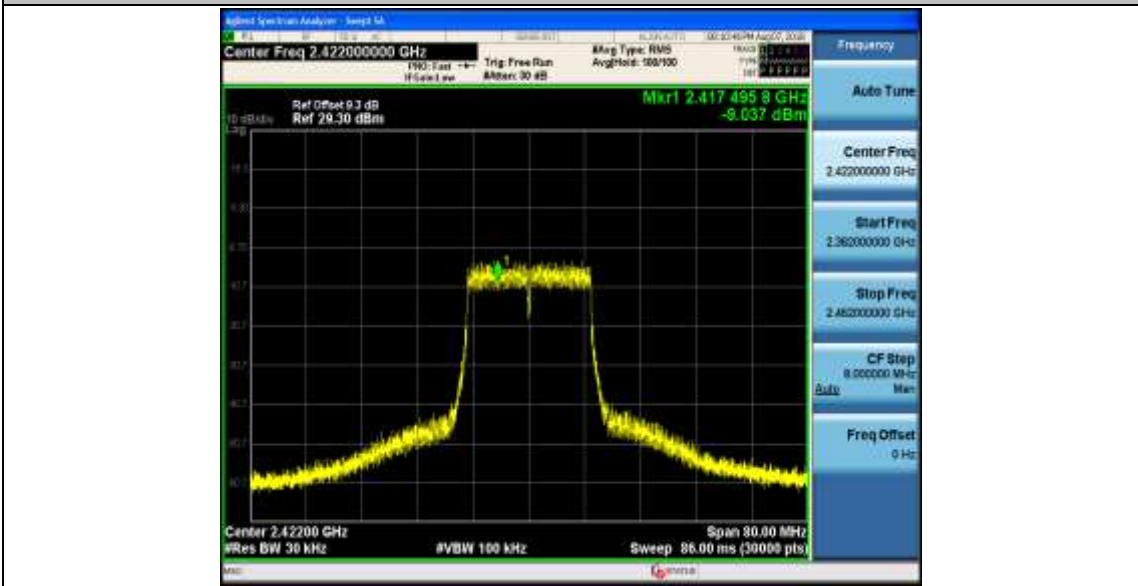


11N20SISO\_Ant1\_2462

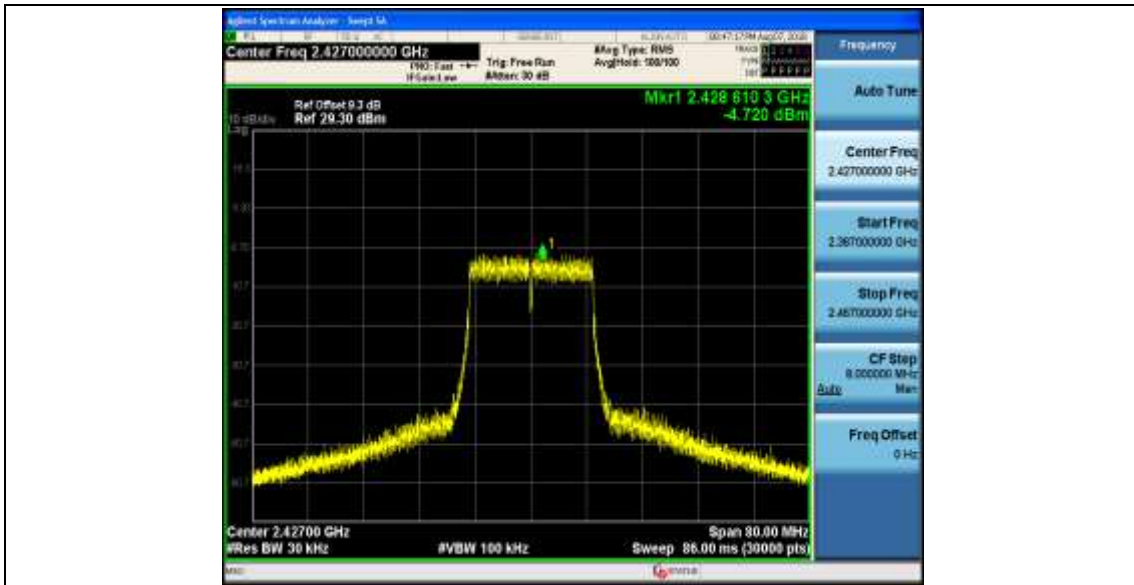




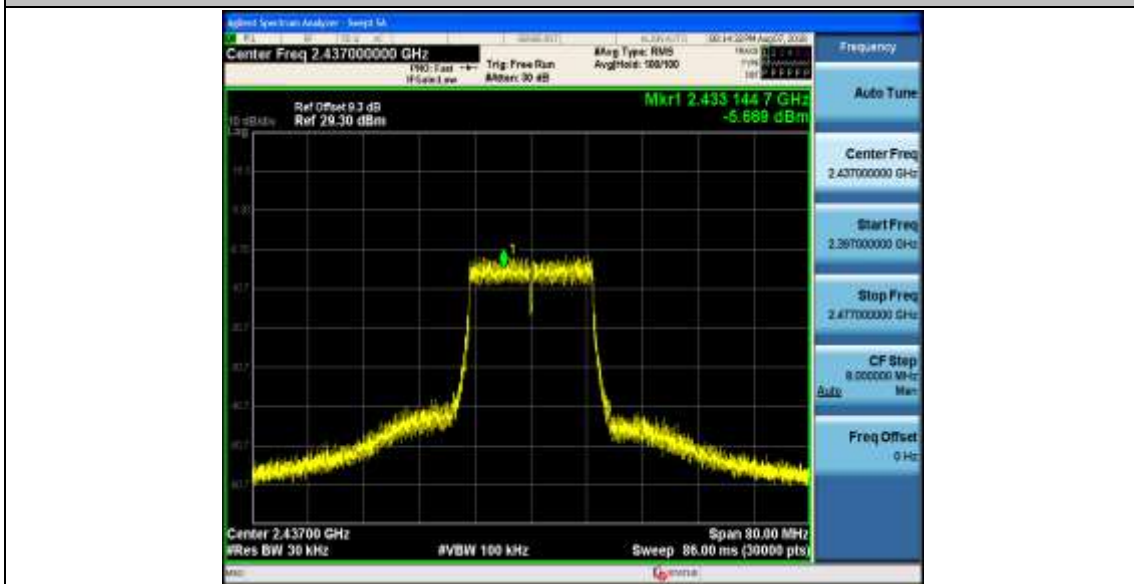
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2427

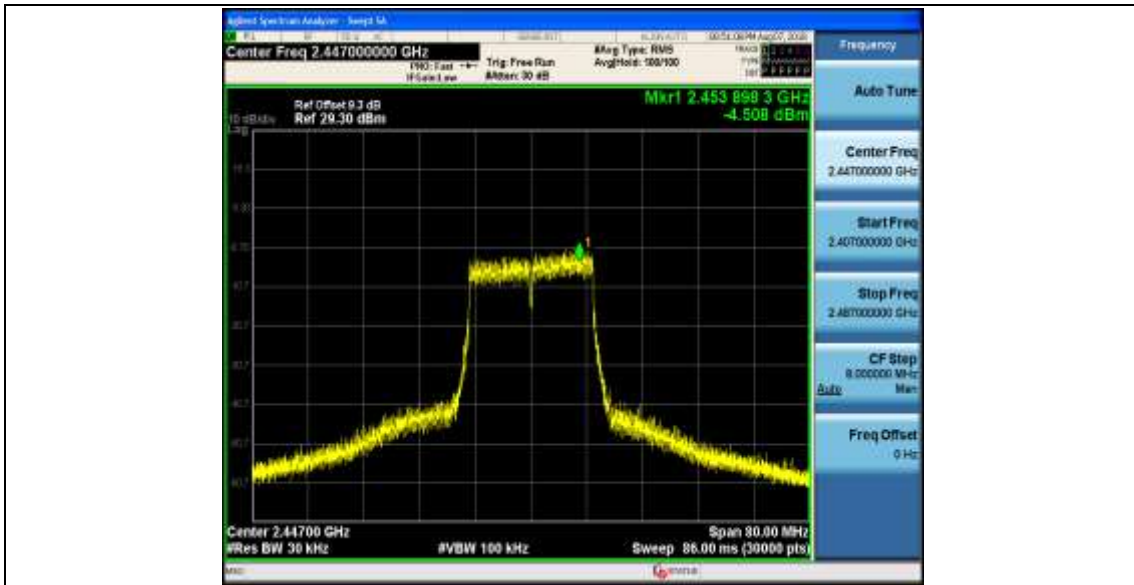


11N40SISO\_Ant1\_2437

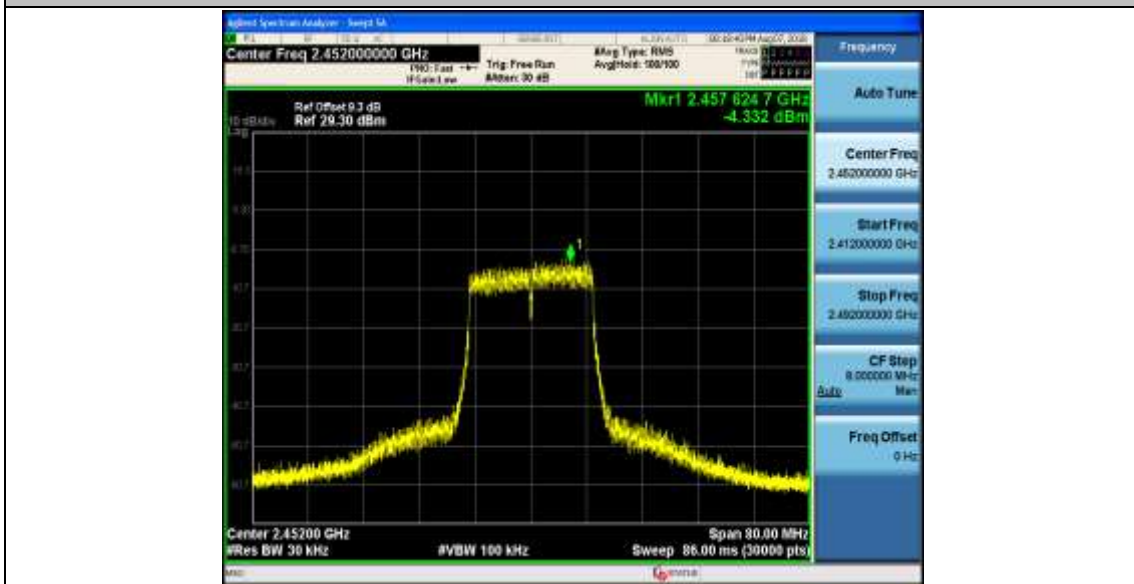


11N40SISO\_Ant1\_2447





11N40SISO\_Ant1\_2452





## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.46	-39.22	-10.54	PASS
		High	2462	9.23	-45.42	-10.77	PASS
11G	Ant1	Low	2412	3.97	-32.55	-16.03	PASS
			2417	6.85	-29.66	-13.15	PASS
		High	2457	7.36	-42.65	-12.64	PASS
			2462	4.15	-43.48	-15.85	PASS
11N20SISO	Ant1	Low	2412	2.71	-35.41	-17.29	PASS
			2417	4.83	-34.81	-15.17	PASS
		High	2457	4.26	-45.73	-15.74	PASS
			2462	2.60	-44.71	-17.4	PASS
11N40SISO	Ant1	Low	2422	1.27	-44.01	-18.73	PASS
			2427	3.08	-45.26	-16.92	PASS
		High	2447	3.92	-50.9	-16.08	PASS
			2452	1.93	-51.4	-18.07	PASS



### Test Graphs

11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412



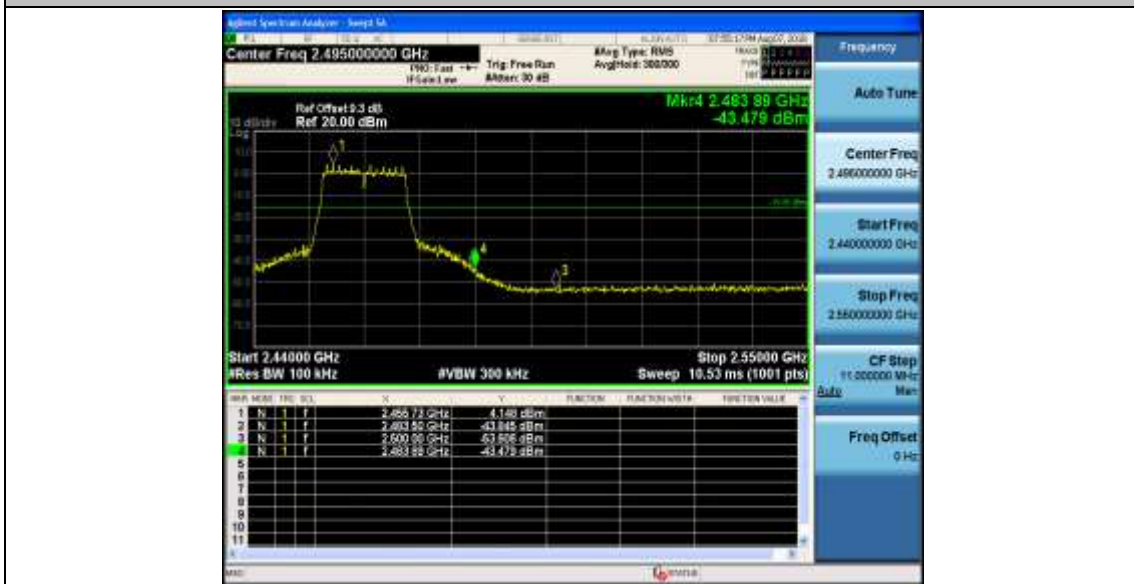
11G\_Ant1\_Low\_2417



11G\_Ant1\_High\_2457



11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant1\_Low\_2417

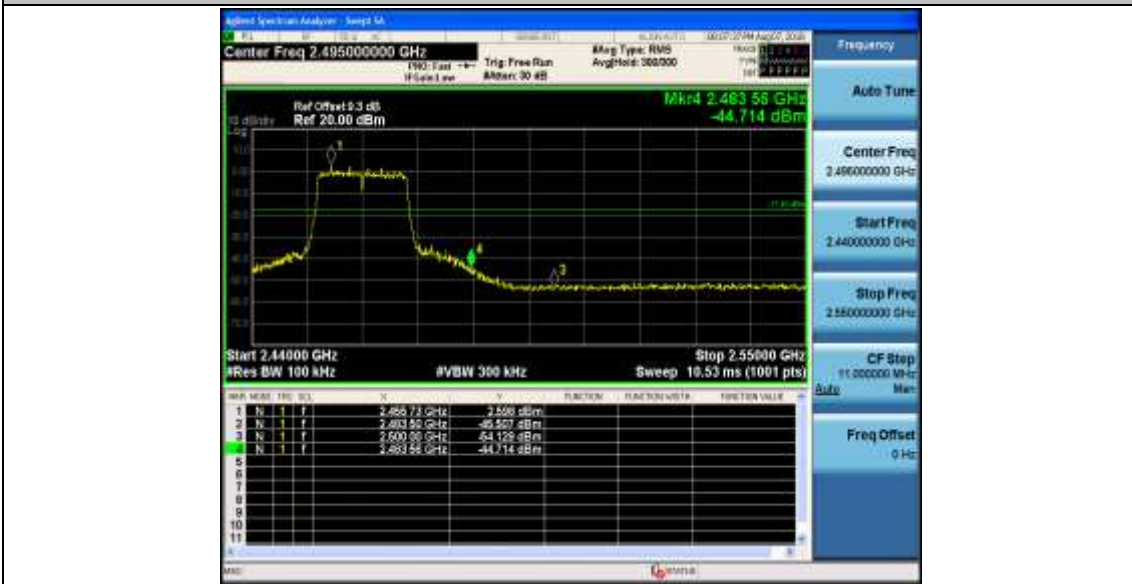


11N20SISO\_Ant1\_High\_2457





11N20SISO\_Ant1\_High\_2462



11N40SISO\_Ant1\_Low\_2422





11N40SISO\_Ant1\_Low\_2427



11N40SISO\_Ant1\_High\_2447



11N40SISO\_Ant1\_High\_2452





## Appendix F: Unwanted Emissions into Non-Restricted Frequency Bands

### Test Result

TestMode	Antenna	Channel	FreqRange	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	Reference	9.08	9.08	---	PASS
			0.009~30	9.08	-73.41	-20.92	PASS
			30~1000	9.08	-62.68	-10.92	PASS
			1000~26500	9.08	-44.89	-10.92	PASS
		2437	Reference	8.82	8.82	---	PASS
			0.009~30	8.82	-73.3	-21.18	PASS
			30~1000	8.82	-63.04	-11.18	PASS
			1000~26500	8.82	-45.54	-11.18	PASS
		2462	Reference	9.15	9.15	---	PASS
			0.009~30	9.15	-74.67	-20.85	PASS
			30~1000	9.15	-62.61	-10.85	PASS
			1000~26500	9.15	-44.39	-10.85	PASS
11G	Ant1	2412	Reference	3.71	3.71	---	PASS
			0.009~30	3.71	-73.42	-26.29	PASS
			30~1000	3.71	-63.05	-16.29	PASS
			1000~26500	3.71	-45.31	-16.29	PASS
		2417	Reference	6.31	6.31	---	PASS
			0.009~30	6.31	-75.02	-23.69	PASS
			30~1000	6.31	-63.23	-13.69	PASS
			1000~26500	6.31	-41.6	-13.69	PASS
		2437	Reference	5.84	5.84	---	PASS
			0.009~30	5.84	-74.88	-24.16	PASS
			30~1000	5.84	-63.18	-14.16	PASS
			1000~26500	5.84	-46.45	-14.16	PASS
		2457	Reference	7.41	7.41	---	PASS
			0.009~30	7.41	-73.87	-22.59	PASS
			30~1000	7.41	-63.19	-12.59	PASS
			1000~26500	7.41	-46.72	-12.59	PASS
		2462	Reference	4.02	4.02	---	PASS
			0.009~30	4.02	-75.13	-25.98	PASS



			30~1000	4.02	-63.46	-15.98	PASS
			1000~26500	4.02	-42.95	-15.98	PASS
11N20SI SO	Ant1	2412	Reference	2.59	2.59	---	PASS
			0.009~30	2.59	-74.99	-27.41	PASS
			30~1000	2.59	-63.57	-17.41	PASS
			1000~26500	2.59	-43.52	-17.41	PASS
		2417	Reference	4.84	4.84	---	PASS
			0.009~30	4.84	-75.4	-25.16	PASS
			30~1000	4.84	-63.79	-15.16	PASS
			1000~26500	4.84	-43.38	-15.16	PASS
		2437	Reference	3.97	3.97	---	PASS
			0.009~30	3.97	-75.35	-26.03	PASS
			30~1000	3.97	-63.3	-16.03	PASS
			1000~26500	3.97	-44.53	-16.03	PASS
		2457	Reference	3.79	3.79	---	PASS
			0.009~30	3.79	-74.92	-26.21	PASS
			30~1000	3.79	-63.19	-16.21	PASS
			1000~26500	3.79	-44.35	-16.21	PASS
		2462	Reference	1.69	1.69	---	PASS
			0.009~30	1.69	-75.16	-28.31	PASS
			30~1000	1.69	-62.98	-18.31	PASS
			1000~26500	1.69	-45.41	-18.31	PASS
11N40SI SO	Ant1	2422	Reference	1.53	1.53	---	PASS
			0.009~30	1.53	-74.52	-28.47	PASS
			30~1000	1.53	-63.75	-18.47	PASS
			1000~26500	1.53	-45.5	-18.47	PASS
		2427	Reference	2.62	2.62	---	PASS
			0.009~30	2.62	-74.83	-27.38	PASS
			30~1000	2.62	-63.12	-17.38	PASS
			1000~26500	2.62	-44.74	-17.38	PASS
		2437	Reference	2.48	2.48	---	PASS
			0.009~30	2.48	-75.18	-27.52	PASS
			30~1000	2.48	-62.78	-17.52	PASS
			1000~26500	2.48	-46.14	-17.52	PASS
		2447	Reference	2.89	2.89	---	PASS
			0.009~30	2.89	-75.4	-27.11	PASS
			30~1000	2.89	-63.69	-17.11	PASS
			1000~26500	2.89	-44.2	-17.11	PASS



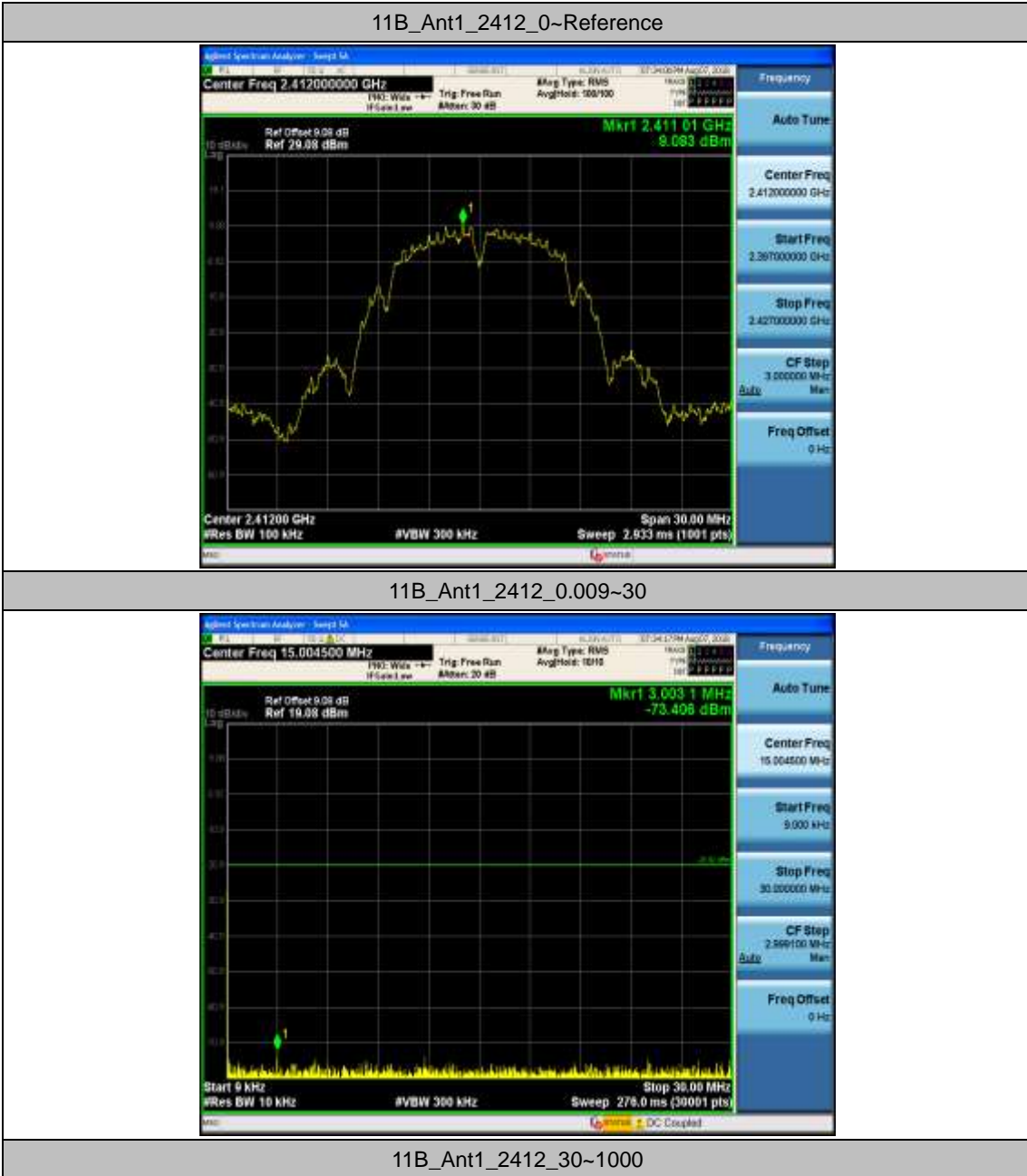
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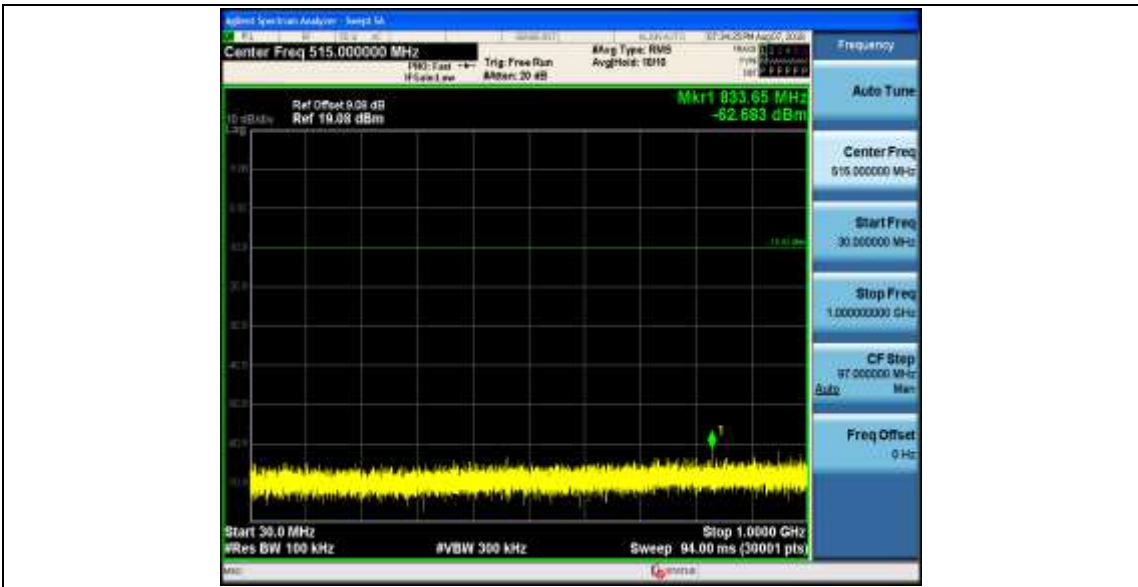
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		2452	Reference	1.81	1.81	---	PASS
			0.009~30	1.81	-75.01	-28.19	PASS
			30~1000	1.81	-62.31	-18.19	PASS
			1000~26500	1.81	-47.29	-18.19	PASS



### Test Graphs





11B\_Ant1\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference

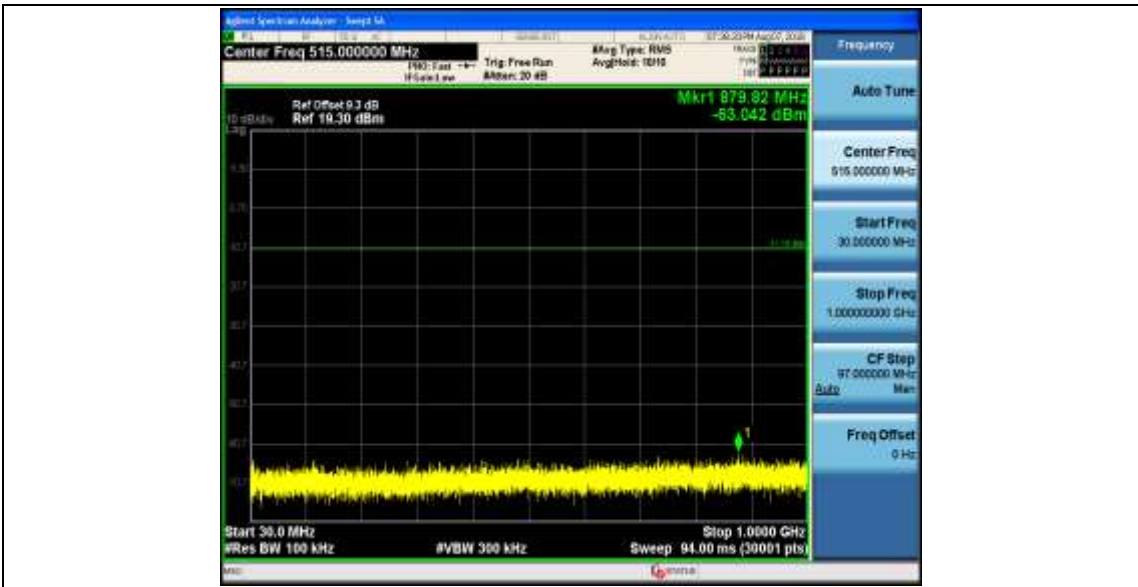




11B\_Ant1\_2437\_0.009~30



11B\_Ant1\_2437\_30~1000



11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference



11B\_Ant1\_2462\_0.009~30



11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500



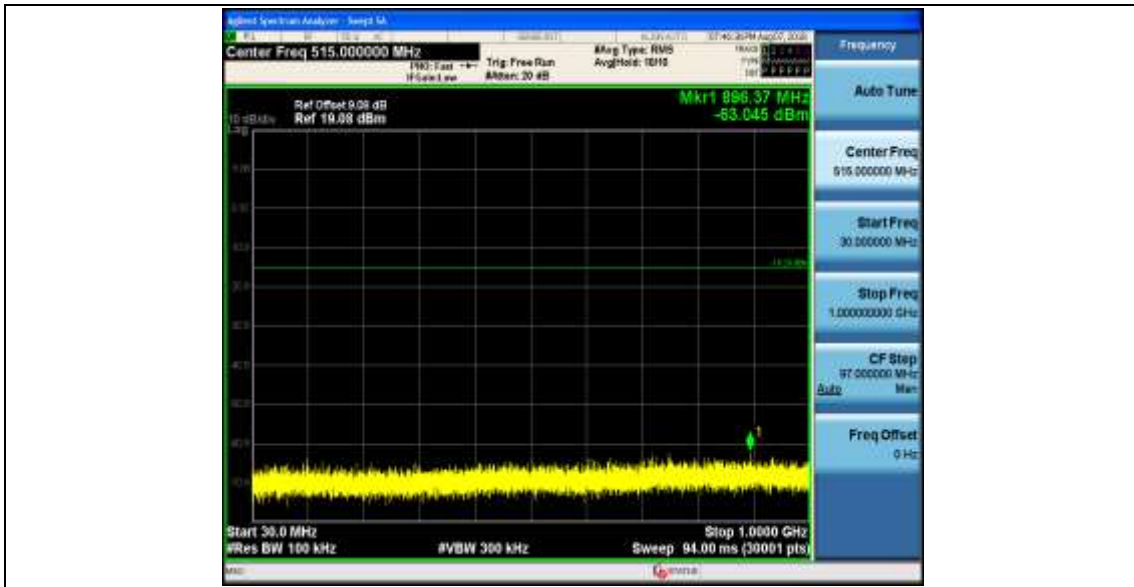
11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_0.009~30



11G\_Ant1\_2412\_30~1000



11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2417\_0~Reference



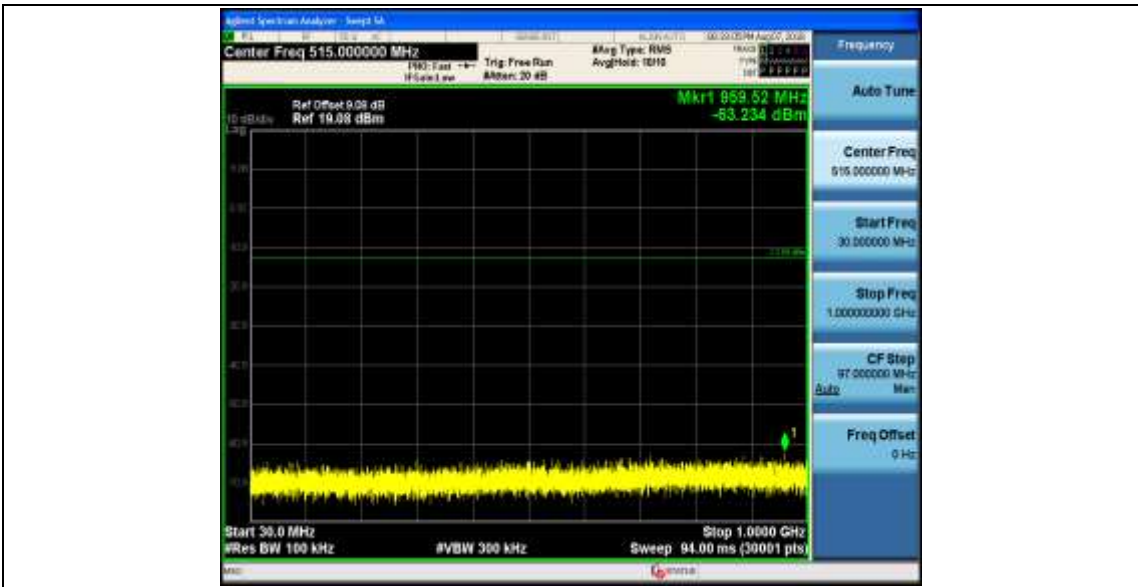


11G\_Ant1\_2417\_0.009~30



11G\_Ant1\_2417\_30~1000





11G\_Ant1\_2417\_1000~26500



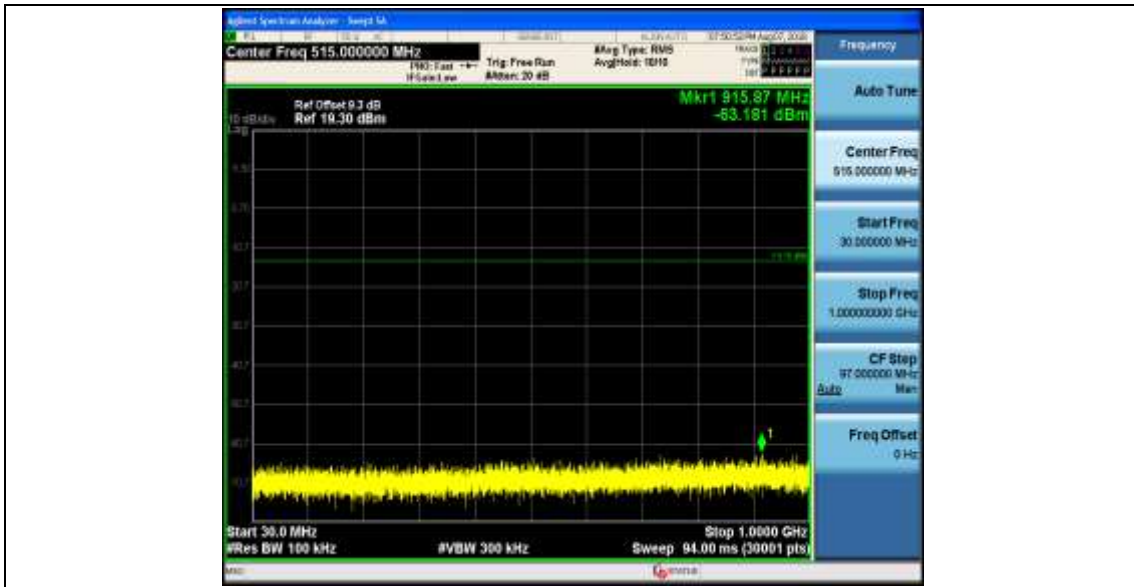
11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_0.009~30



11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



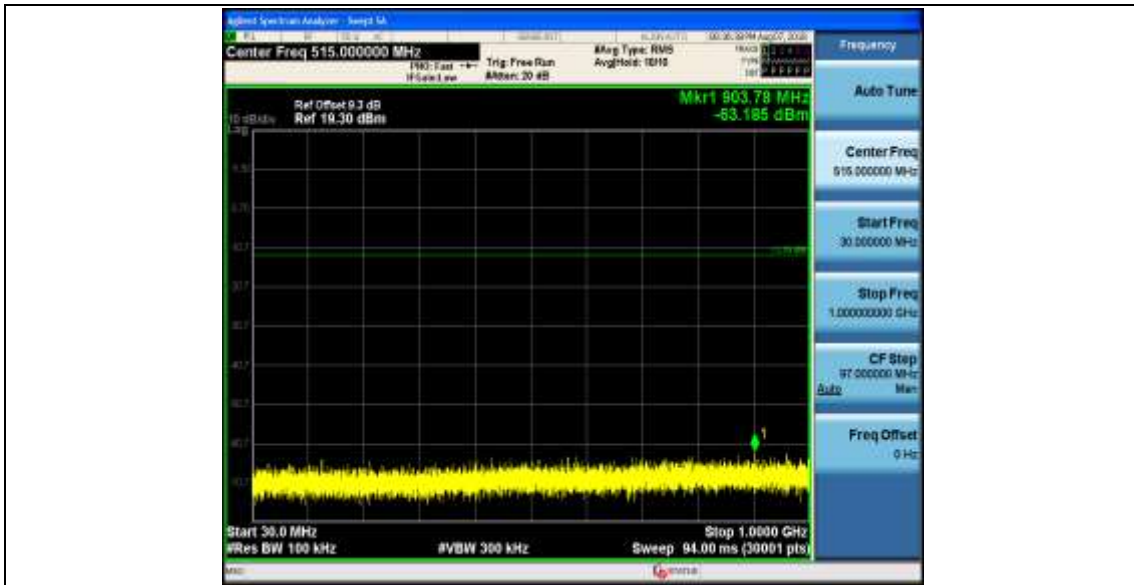
11G\_Ant1\_2457\_0~Reference



11G\_Ant1\_2457\_0.009~30



11G\_Ant1\_2457\_30~1000



11G\_Ant1\_2457\_1000~26500



11G\_Ant1\_2462\_0~Reference

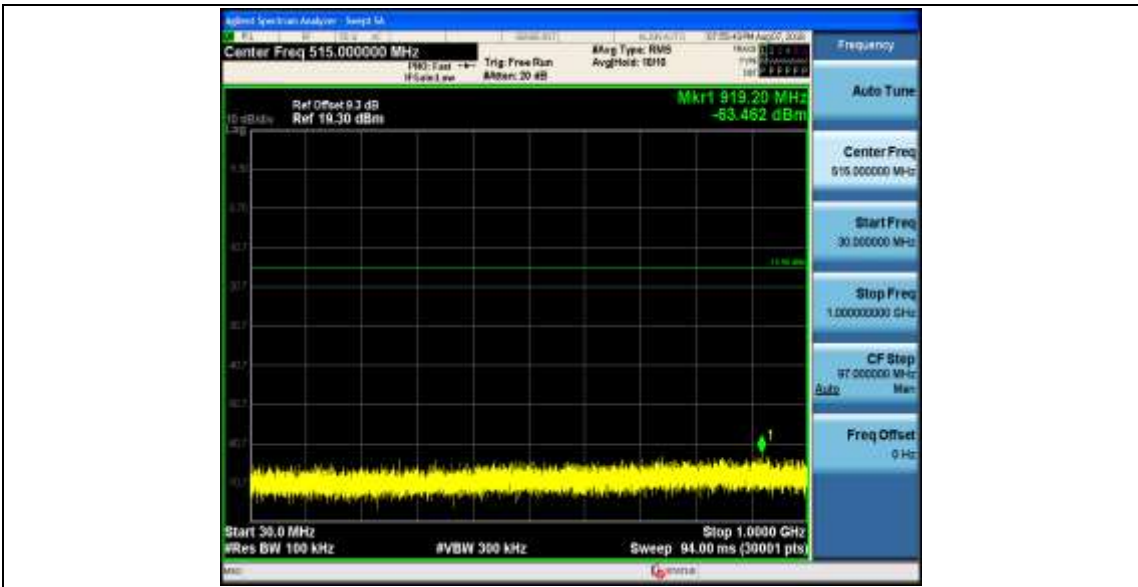


11G\_Ant1\_2462\_0.009~30



11G\_Ant1\_2462\_30~1000





11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0~Reference

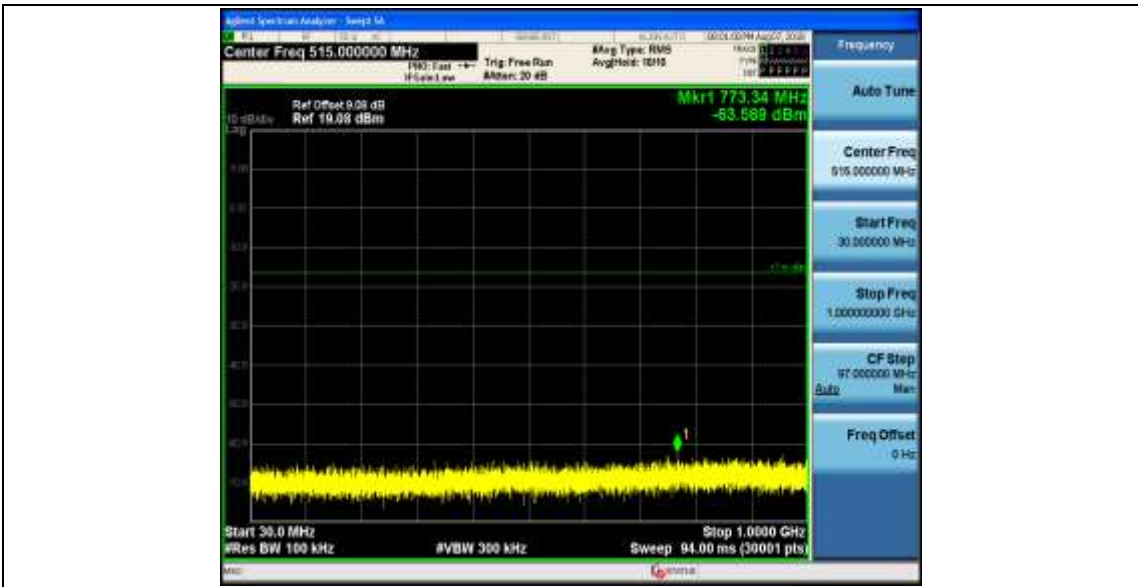




11N20SISO\_Ant1\_2412\_0.009~30



11N20SISO\_Ant1\_2412\_30~1000



11N20SISO\_Ant1\_2412\_1000~26500



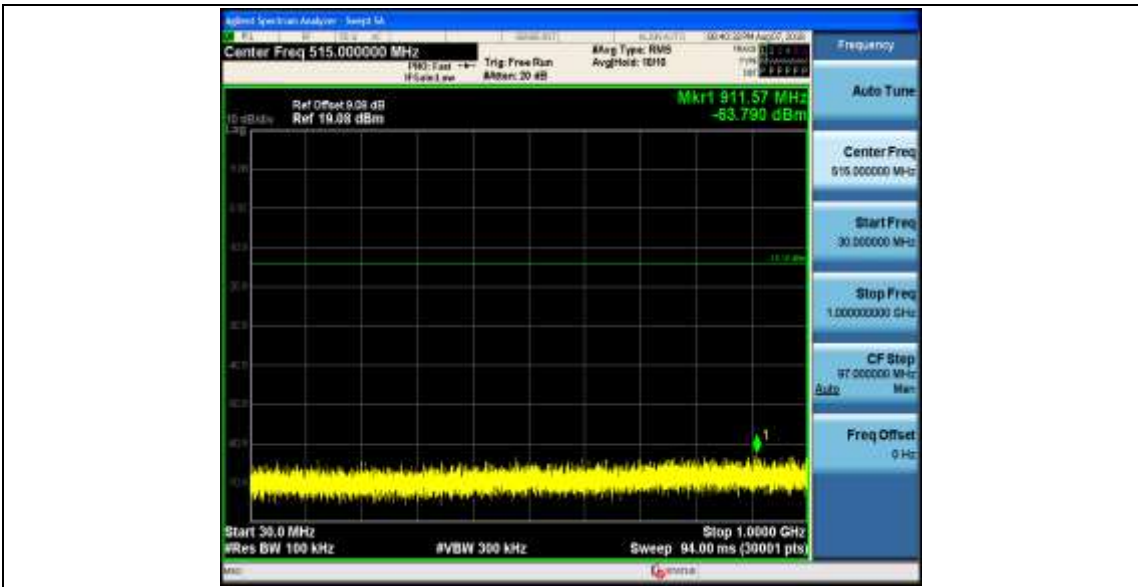
11N20SISO\_Ant1\_2417\_0~Reference



11N20SISO\_Ant1\_2417\_0.009~30



11N20SISO\_Ant1\_2417\_30~1000



11N20SISO\_Ant1\_2417\_1000~26500



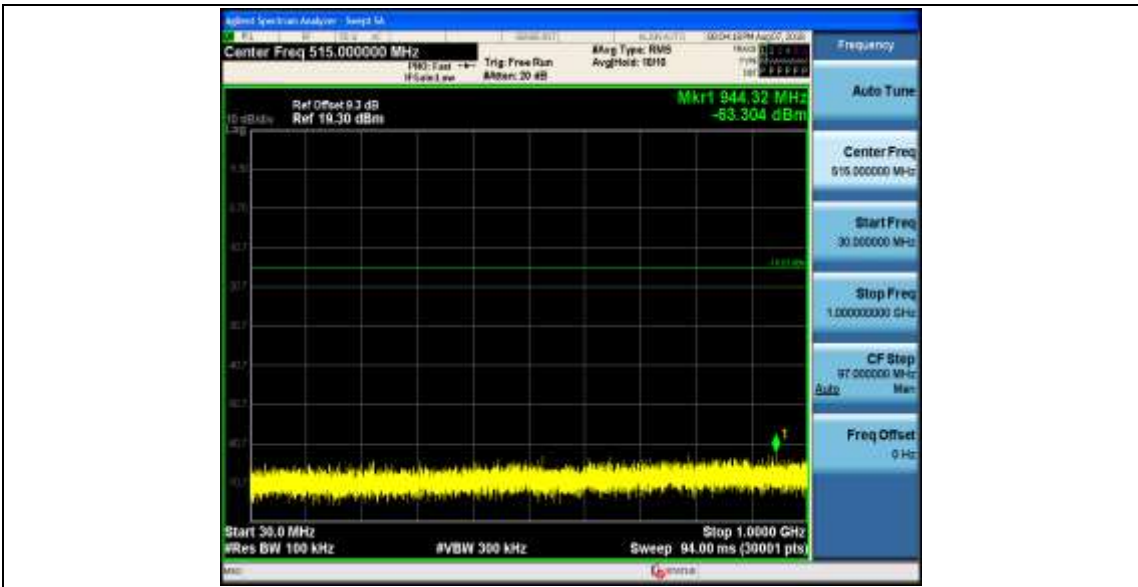
11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_0.009~30



11N20SISO\_Ant1\_2437\_30~1000



11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2457\_0~Reference



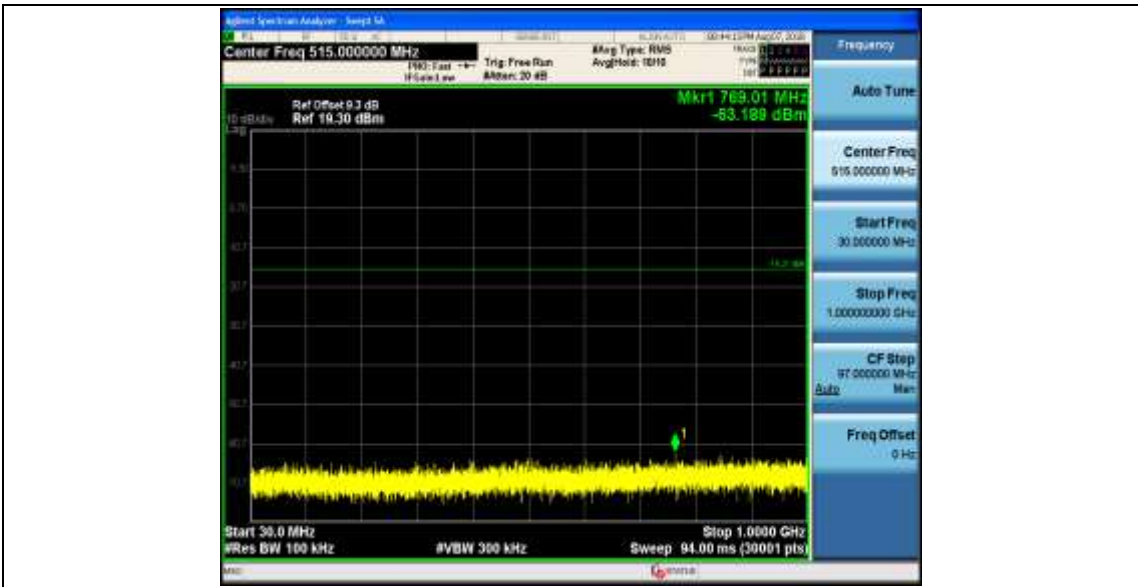


11N20SISO\_Ant1\_2457\_0.009~30



11N20SISO\_Ant1\_2457\_30~1000





11N20SISO\_Ant1\_2457\_1000~26500



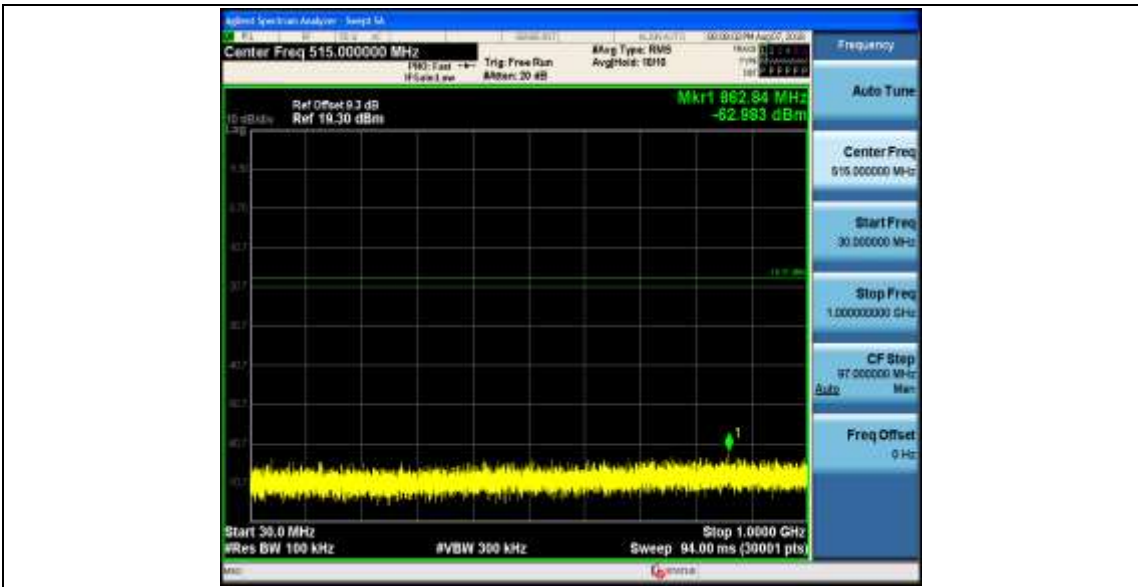
11N20SISO\_Ant1\_2462\_0~Reference



11N20SISO\_Ant1\_2462\_0.009~30



11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_0~Reference



11N40SISO\_Ant1\_2422\_0.009~30



11N40SISO\_Ant1\_2422\_30~1000



11N40SISO\_Ant1\_2422\_1000~26500



11N40SISO\_Ant1\_2427\_0~Reference

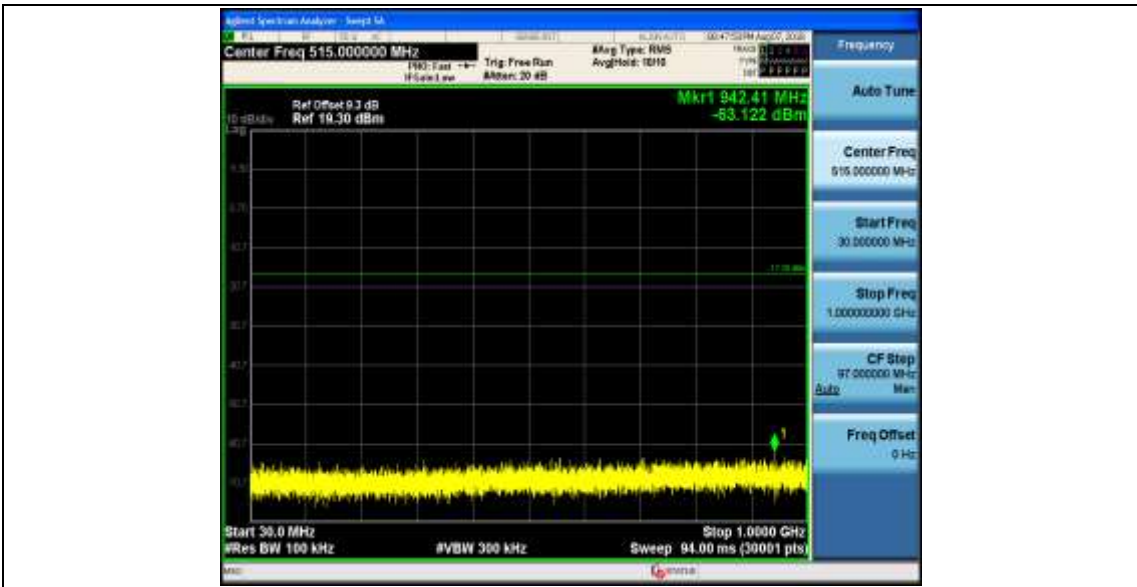


11N40SISO\_Ant1\_2427\_0.009~30



11N40SISO\_Ant1\_2427\_30~1000





11N40SISO\_Ant1\_2427\_1000~26500



11N40SISO\_Ant1\_2437\_0~Reference

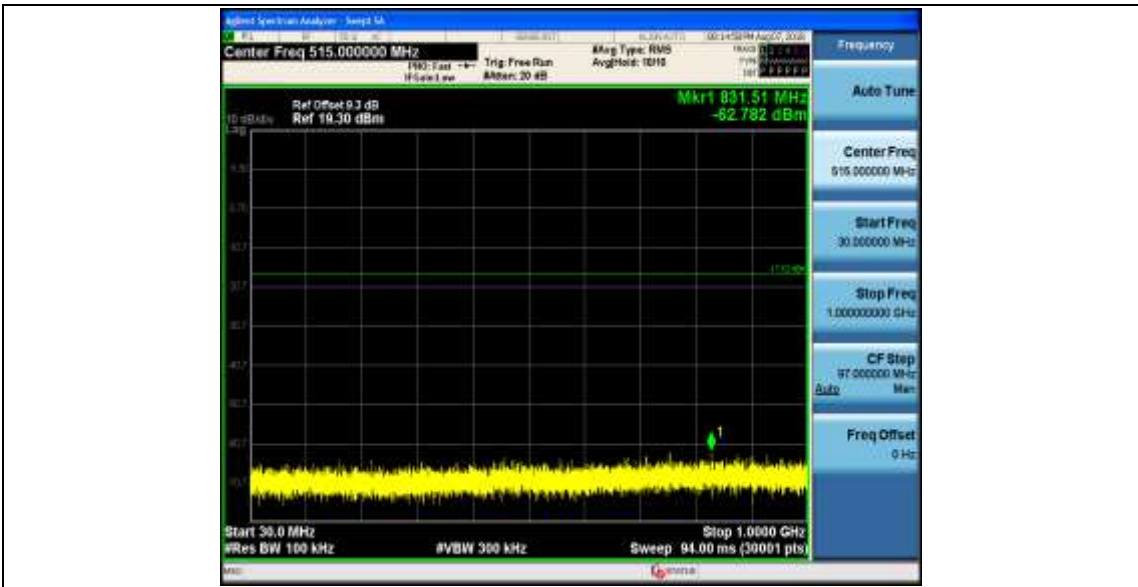




11N40SISO\_Ant1\_2437\_0.009~30



11N40SISO\_Ant1\_2437\_30~1000



11N40SISO\_Ant1\_2437\_1000~26500



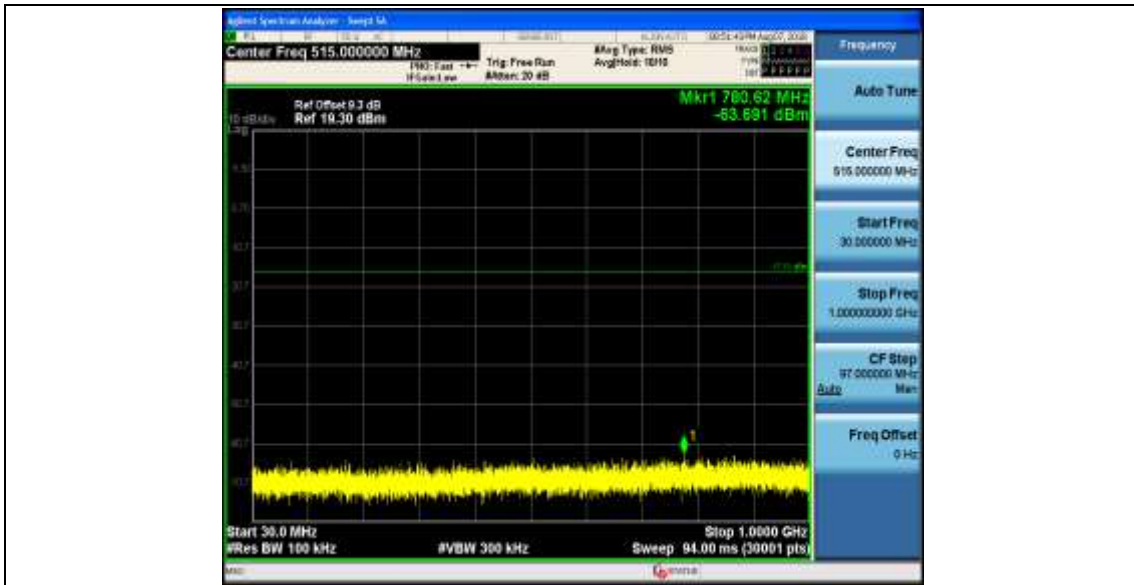
11N40SISO\_Ant1\_2447\_0~Reference



11N40SISO\_Ant1\_2447\_0.009~30



11N40SISO\_Ant1\_2447\_30~1000



11N40SISO\_Ant1\_2447\_1000~26500



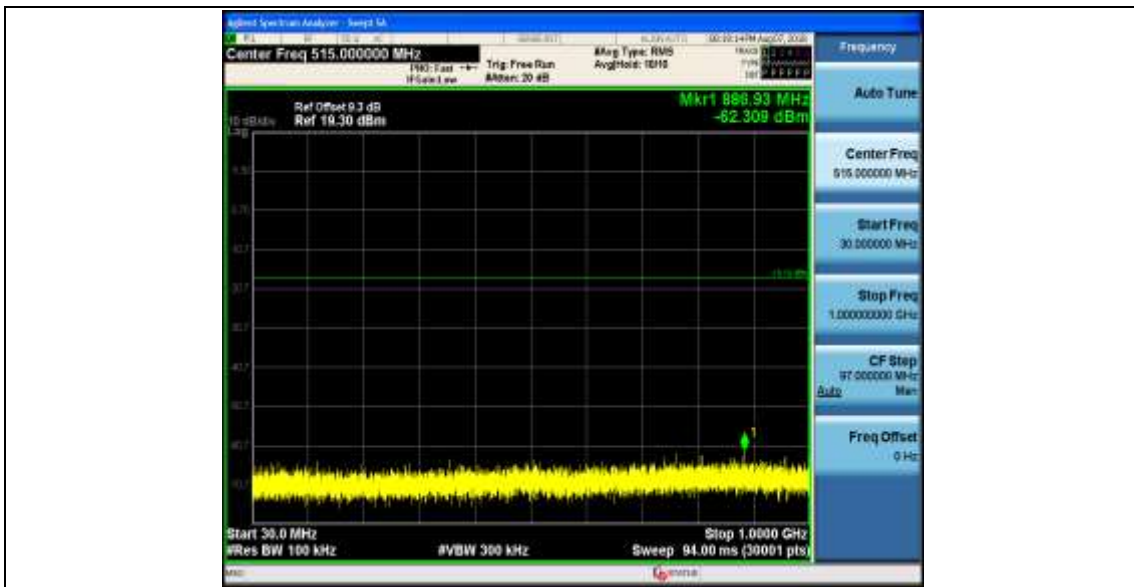
11N40SISO\_Ant1\_2452\_0~Reference



11N40SISO\_Ant1\_2452\_0.009~30



11N40SISO\_Ant1\_2452\_30~1000



11N40SISO\_Ant1\_2452\_1000~26500





## Appendix G: Duty Cycle

### Test Result

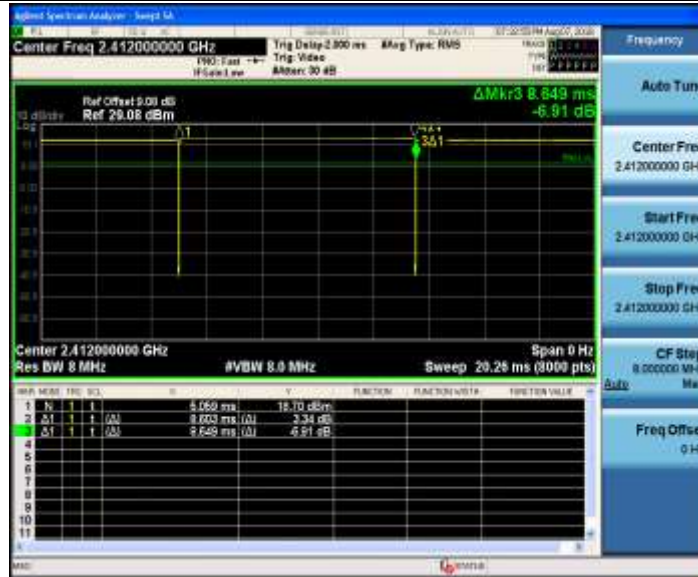
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.60	8.65	99.47
		2437	8.60	8.65	99.47
		2462	8.60	8.65	99.44
11G	Ant1	2412	2.06	2.11	97.66
		2417	2.06	2.11	97.72
		2437	2.06	2.11	97.66
		2457	2.06	2.11	97.72
		2462	2.06	2.11	97.66
11N20SISO	Ant1	2412	2.59	2.64	98.18
		2417	2.59	2.64	98.13
		2437	2.59	2.64	98.13
		2457	2.59	2.64	98.13
		2462	2.59	2.64	98.18
11N40SISO	Ant1	2422	2.59	2.64	98.18
		2427	2.59	2.64	98.18
		2437	2.59	2.64	98.13
		2447	2.59	2.64	98.13
		2452	2.59	2.64	98.13





### Test Graphs

11B\_Ant1\_2412



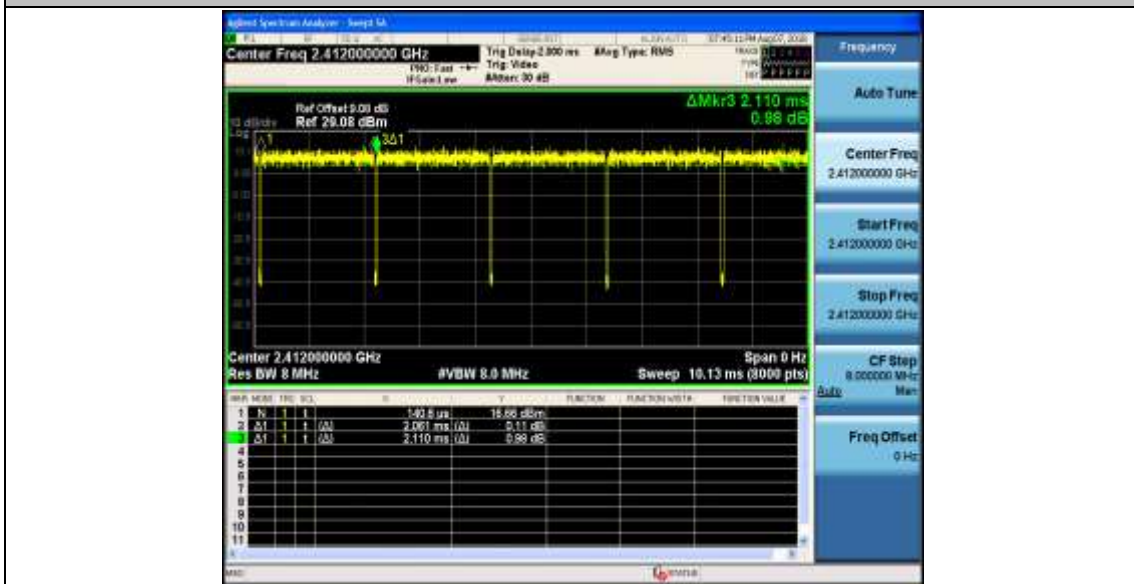
11B\_Ant1\_2437



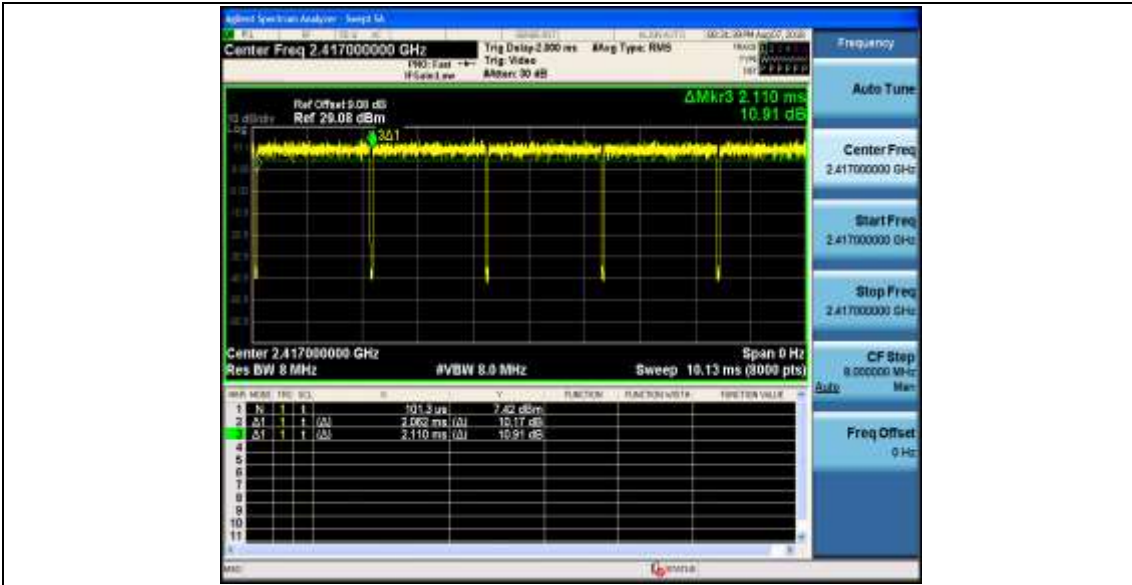
11B\_Ant1\_2462



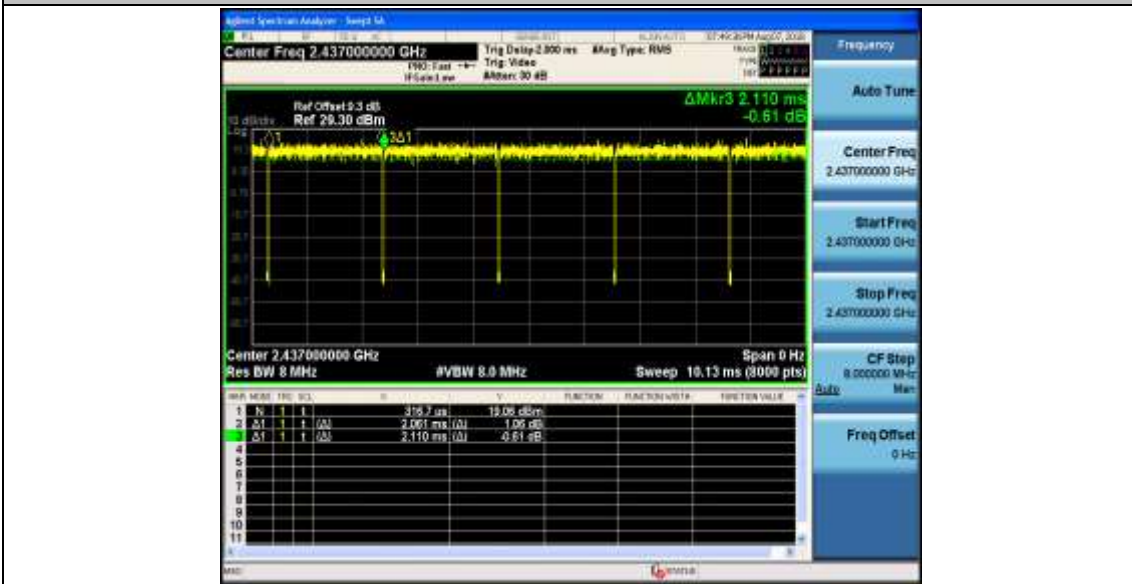
11G\_Ant1\_2412



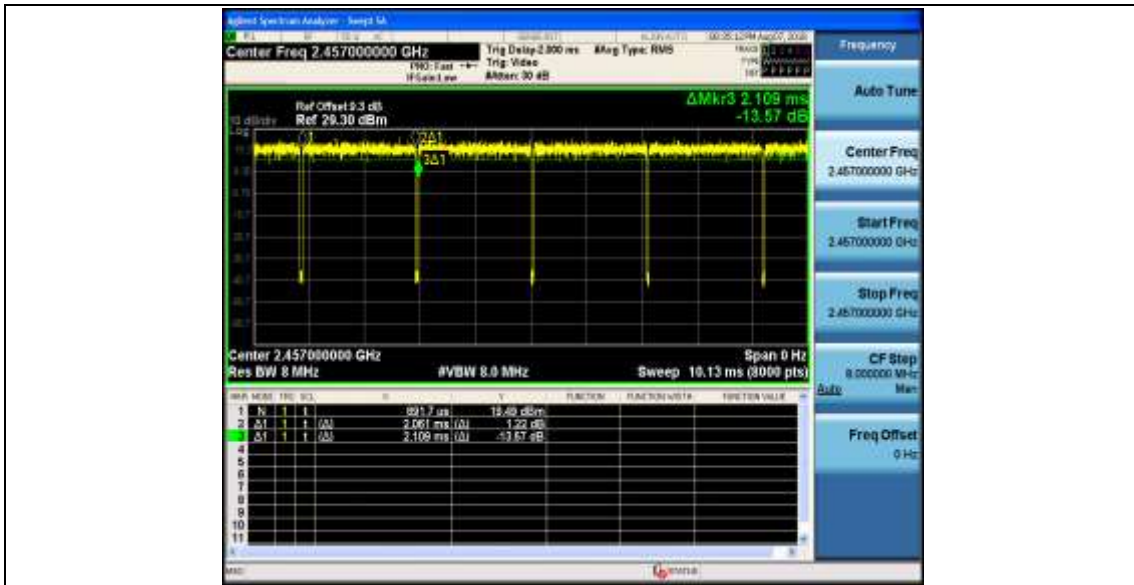
11G\_Ant1\_2417



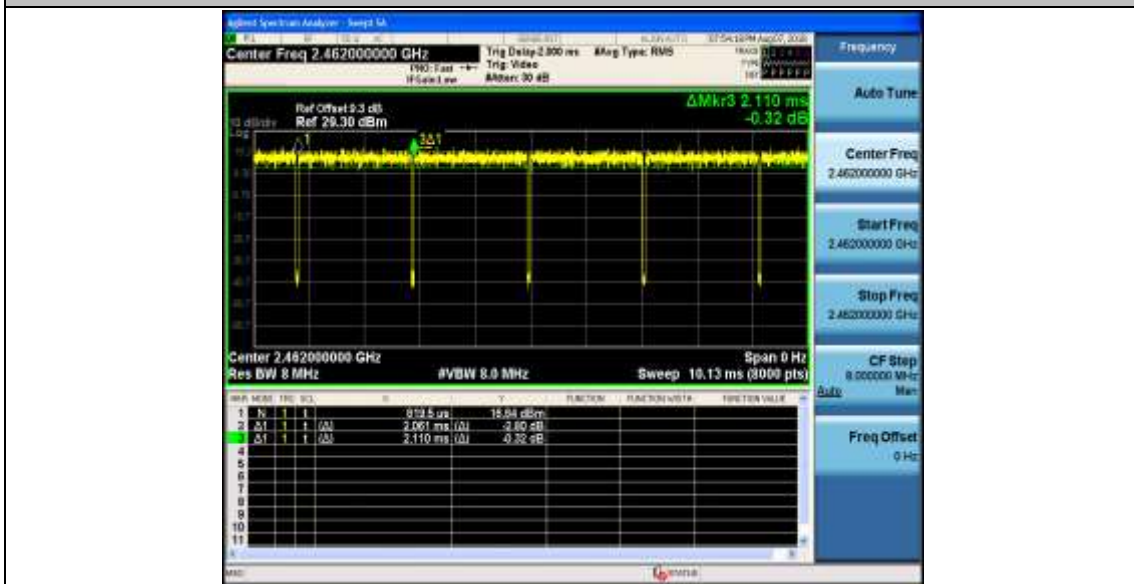
11G\_Ant1\_2437



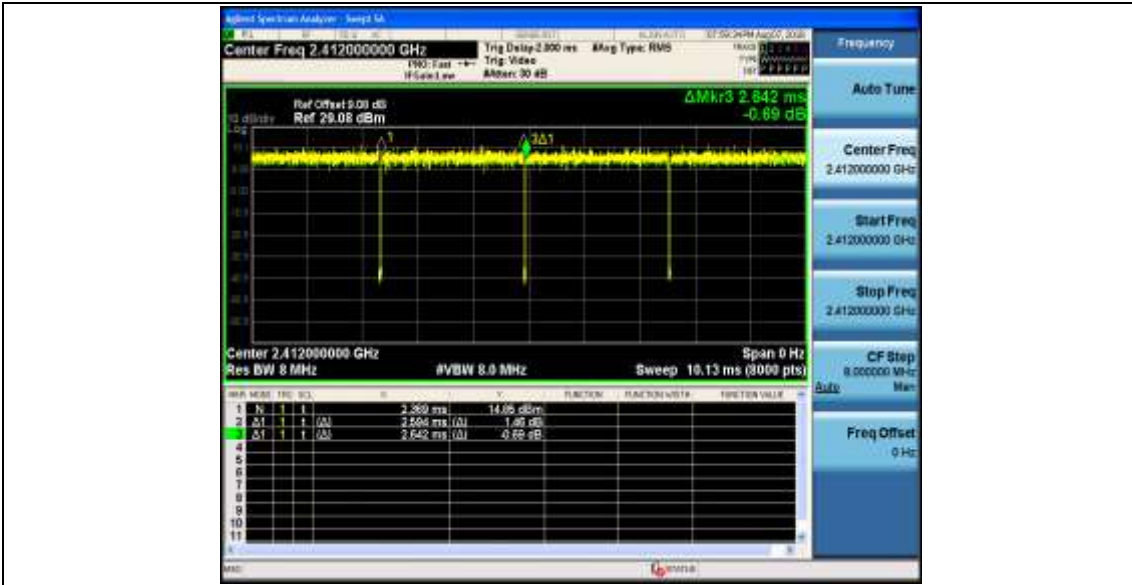
11G\_Ant1\_2457



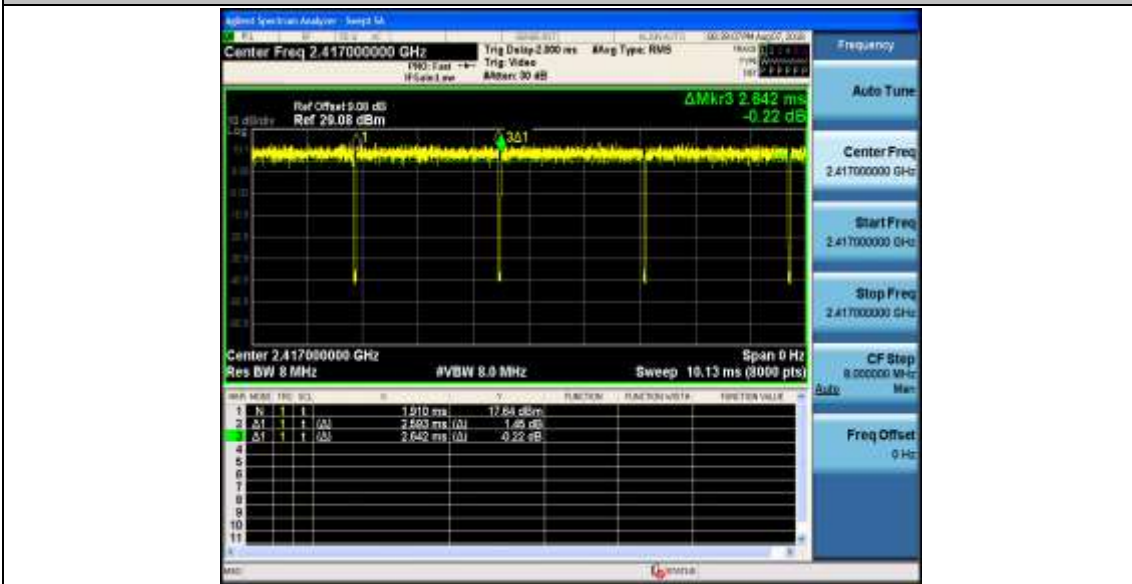
11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

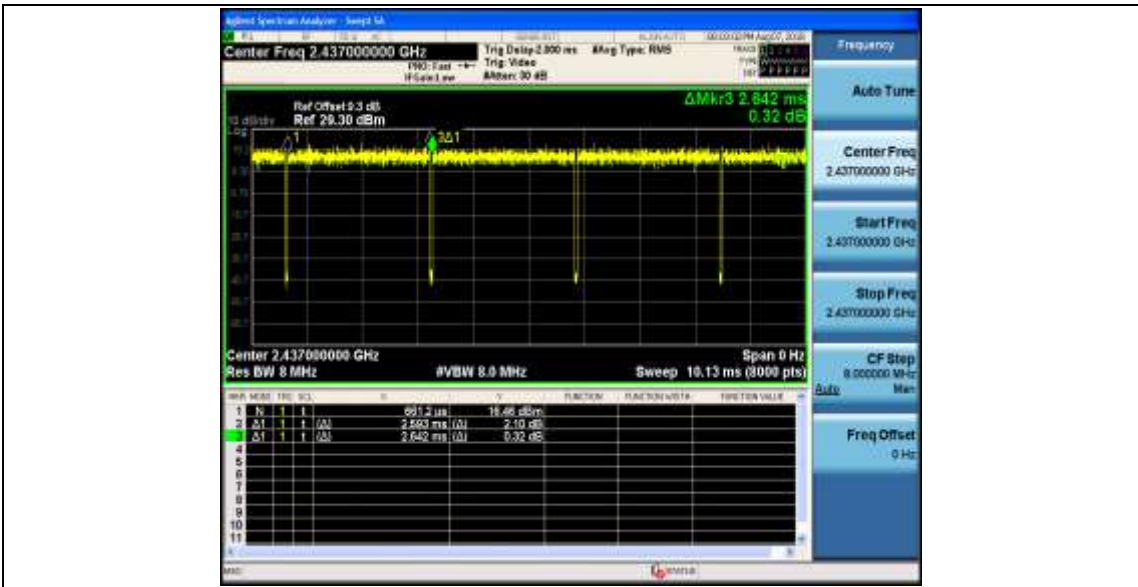


11N20SISO\_Ant1\_2417

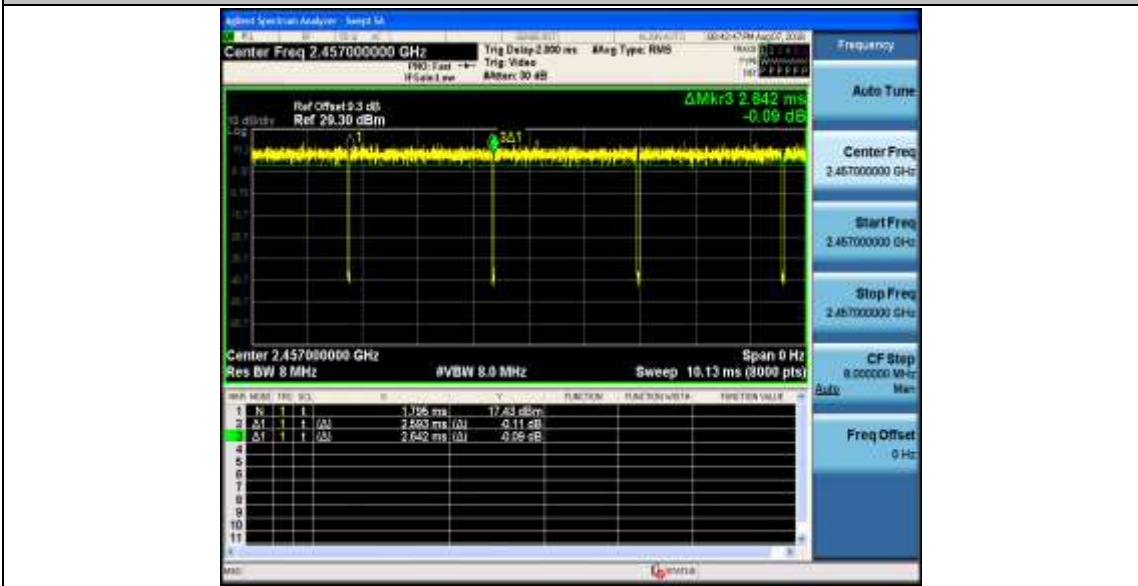


11N20SISO\_Ant1\_2437



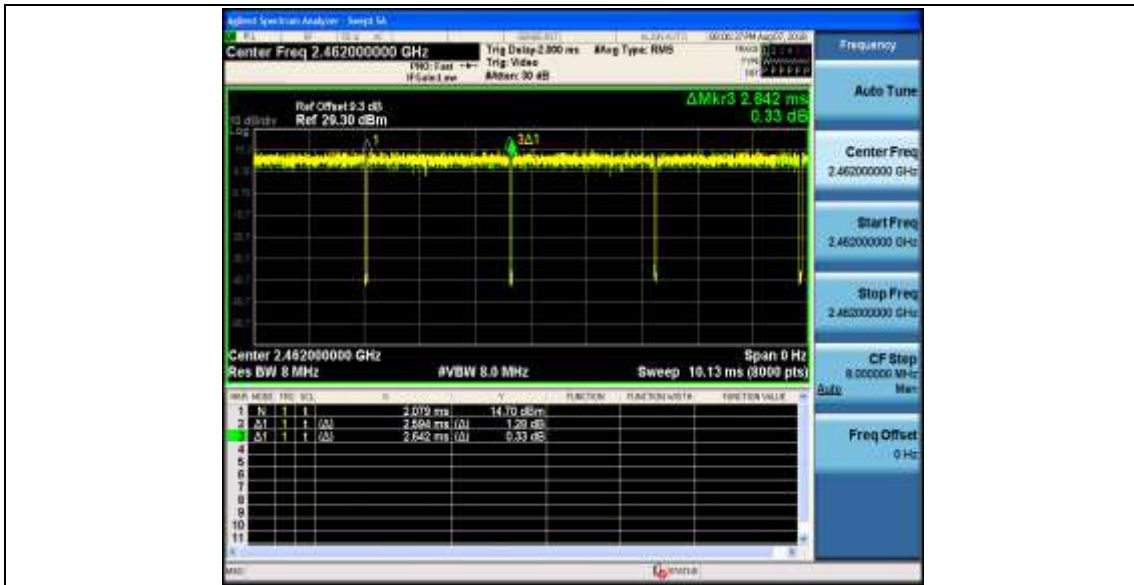


11N20SISO\_Ant1\_2457

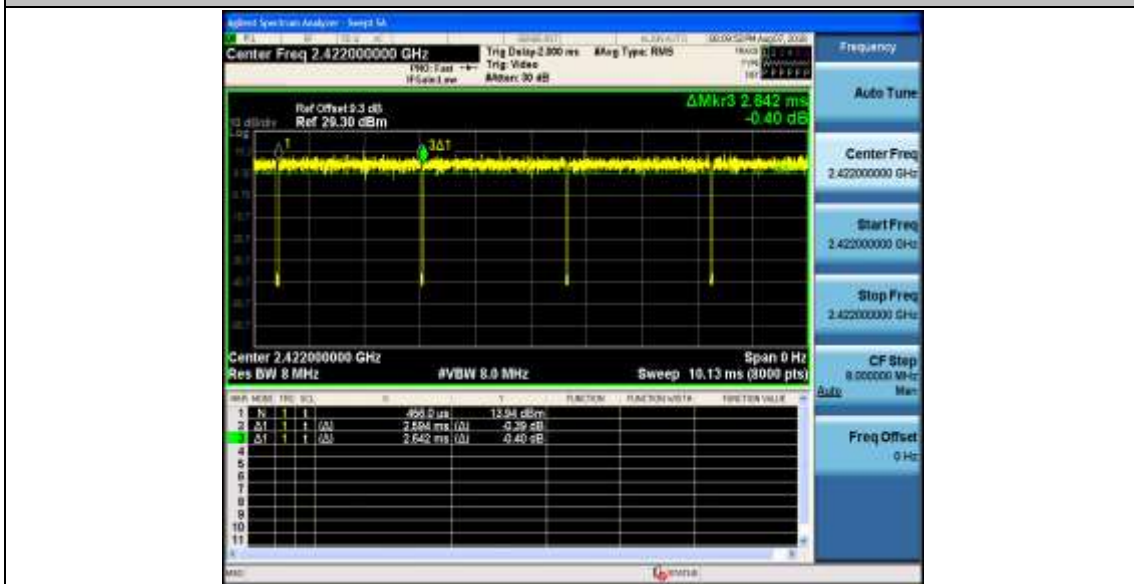


11N20SISO\_Ant1\_2462

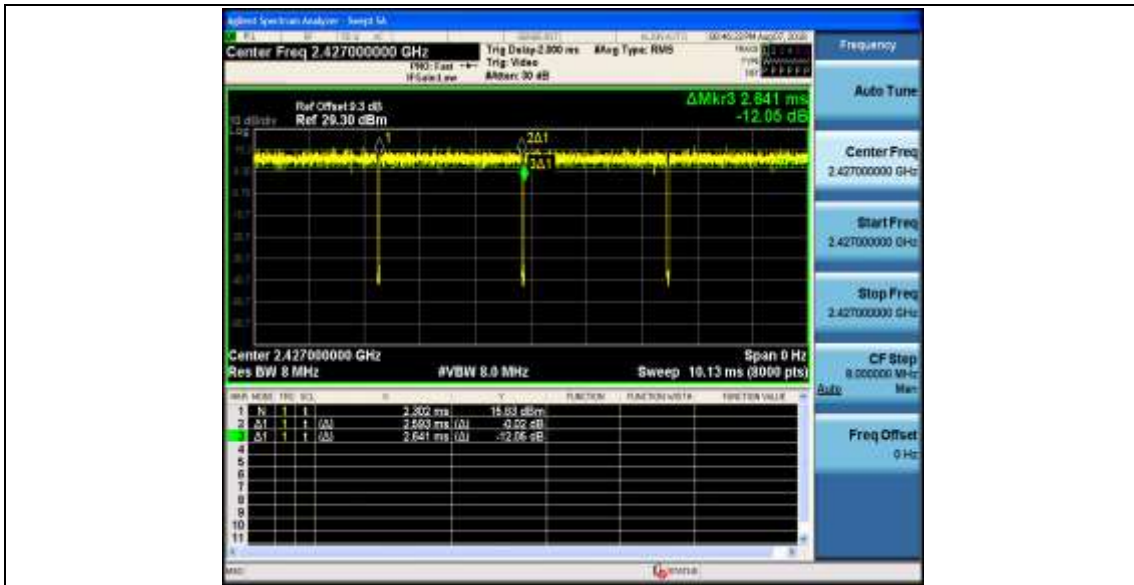




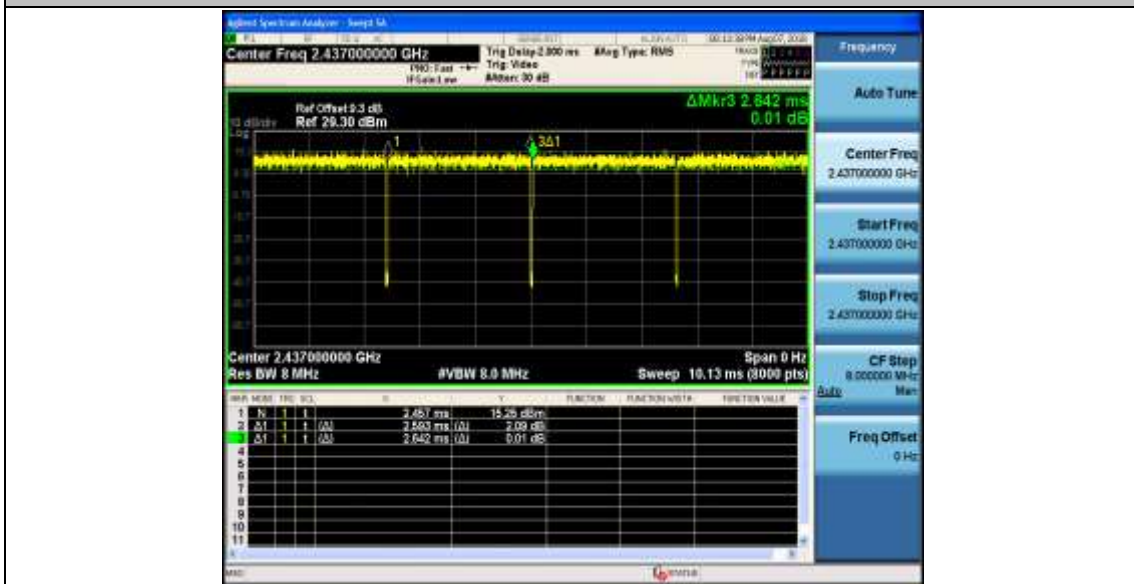
11N40SISO\_Ant1\_2422



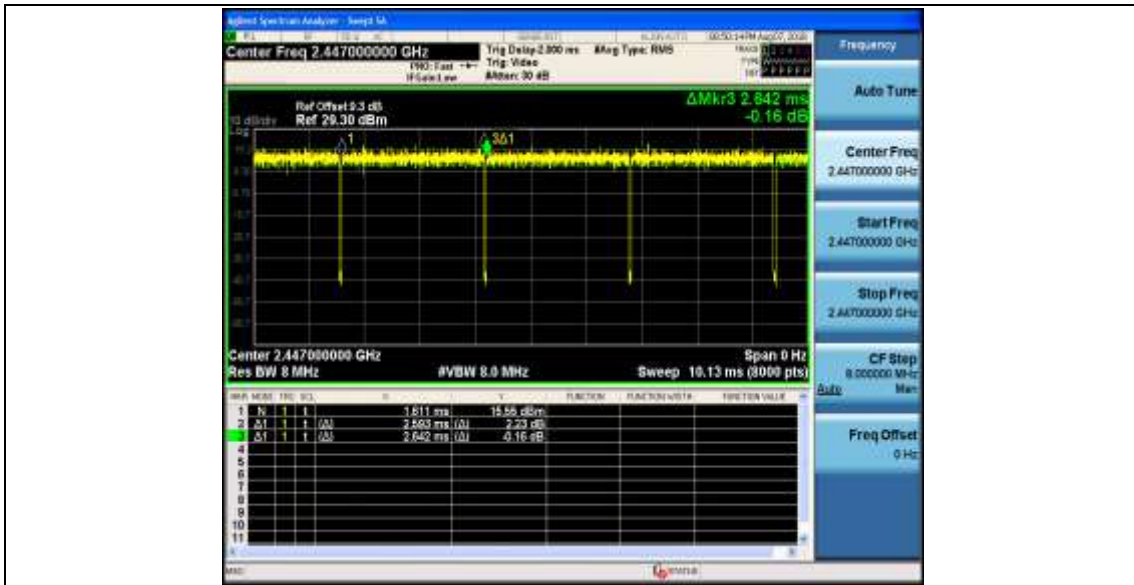
11N40SISO\_Ant1\_2427



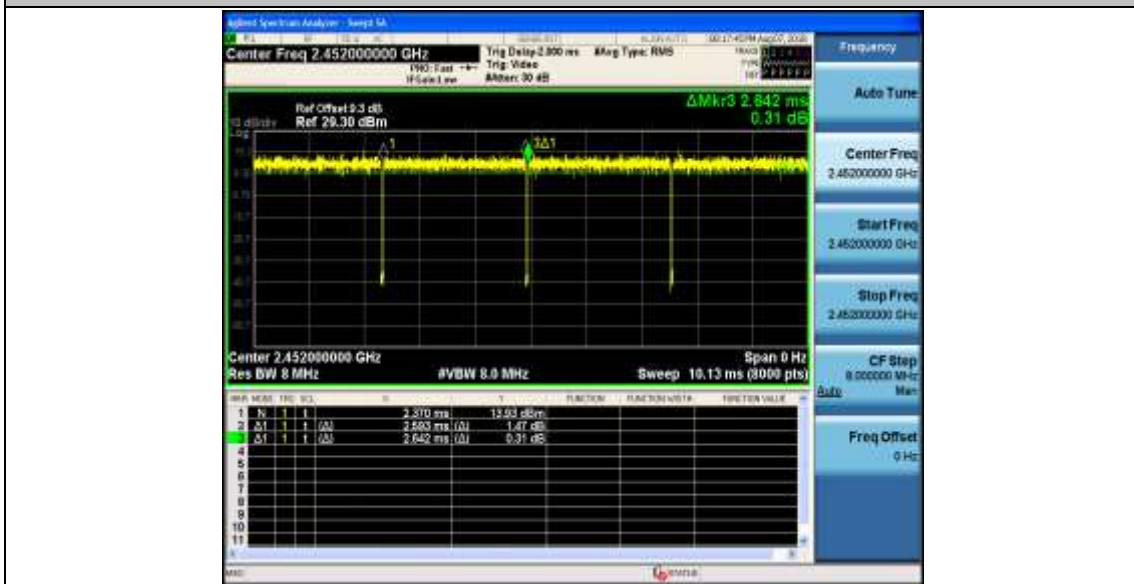
11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2447



11N40SISO\_Ant1\_2452



END