

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BDCJ-E6P

Company : Xi'an Vidoar Technologies Co., Ltd.

EUT : Helmet Smart HUD

Model Number : E6+

Report No. : CTA26040700403

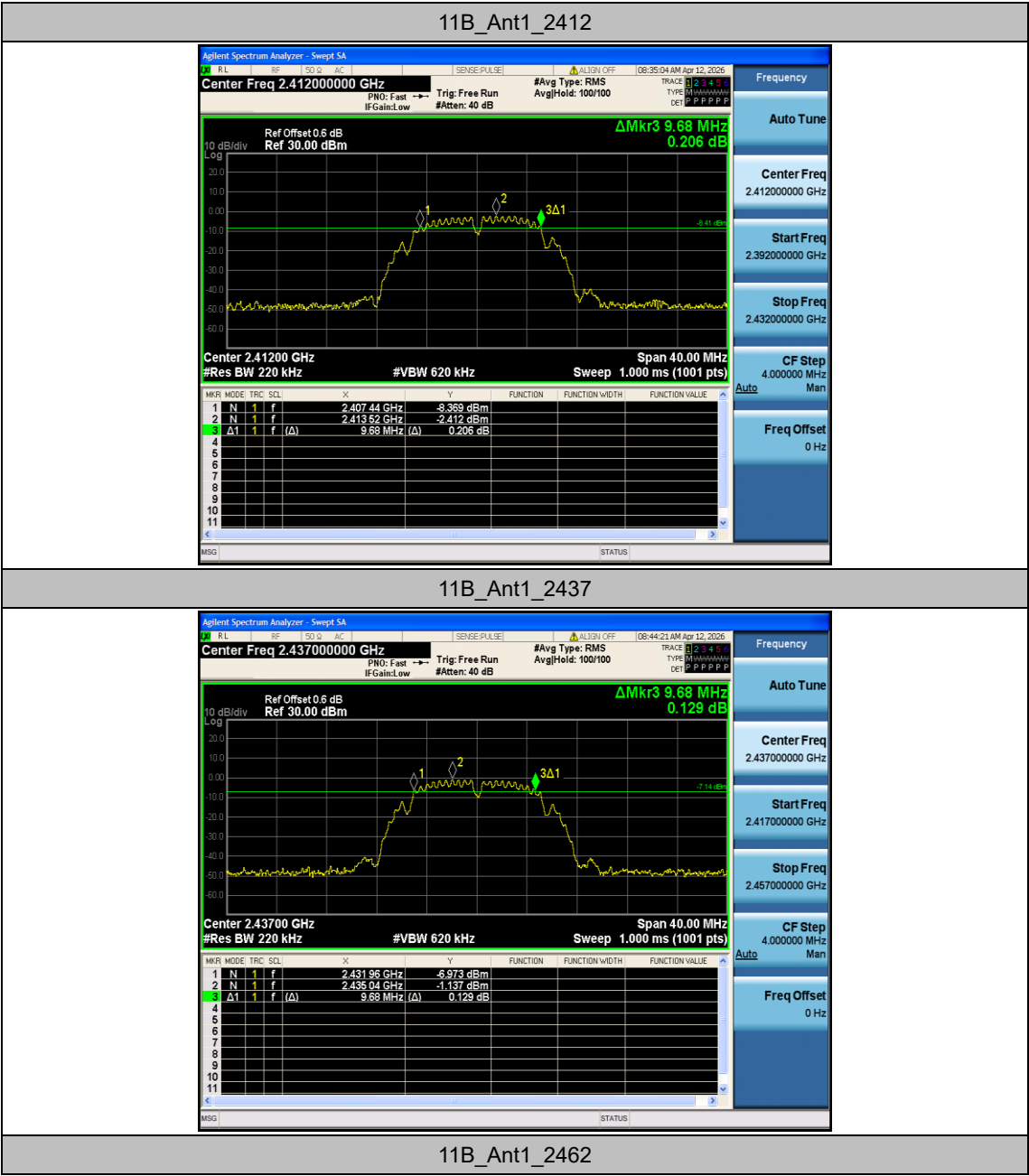
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

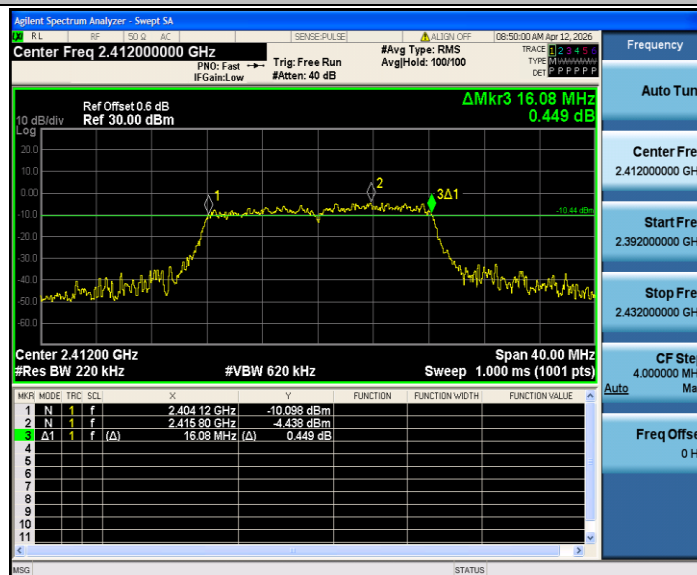
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.680	2407.440	2417.120	0.5	PASS
		2437	9.680	2431.960	2441.640	0.5	PASS
		2462	10.080	2457.000	2467.080	0.5	PASS
11G	Ant1	2412	16.080	2404.120	2420.200	0.5	PASS
		2437	16.200	2428.840	2445.040	0.5	PASS
		2462	16.360	2453.880	2470.240	0.5	PASS
11N20SISO	Ant1	2412	16.680	2404.040	2420.720	0.5	PASS
		2437	16.720	2428.320	2445.040	0.5	PASS
		2462	17.320	2453.480	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.200	2404.800	2440.000	0.5	PASS
		2437	35.760	2419.080	2454.840	0.5	PASS
		2452	36.160	2433.840	2470.000	0.5	PASS

Test Graphs

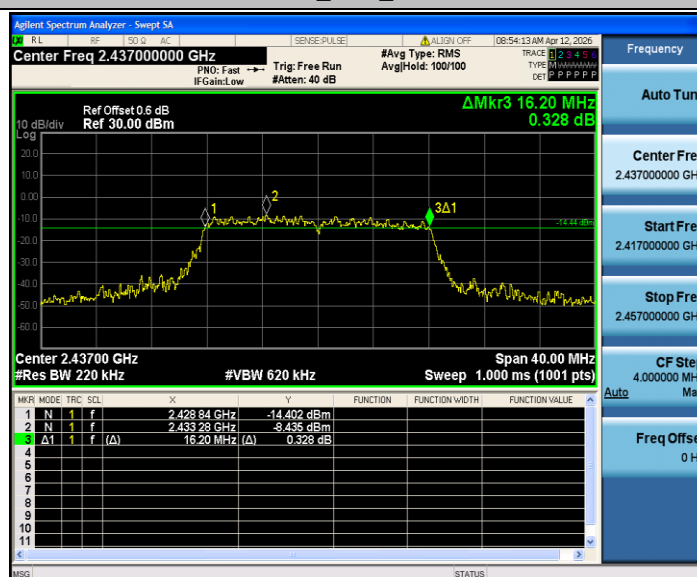




11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



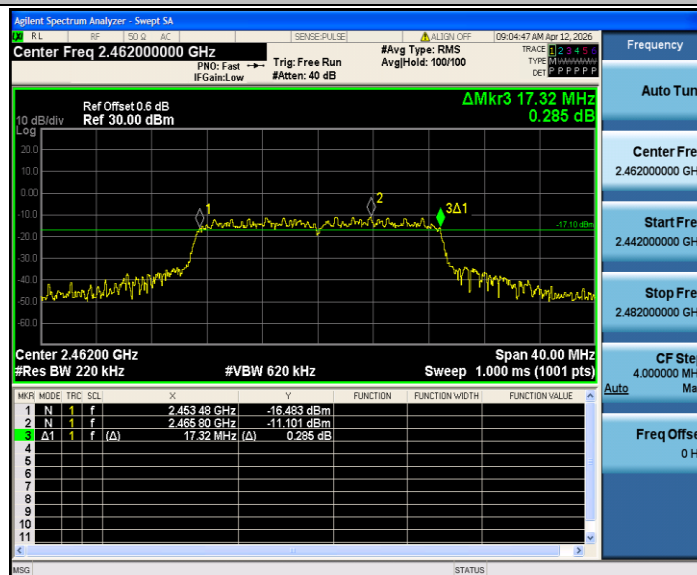
11N20SISO_Ant1_2412



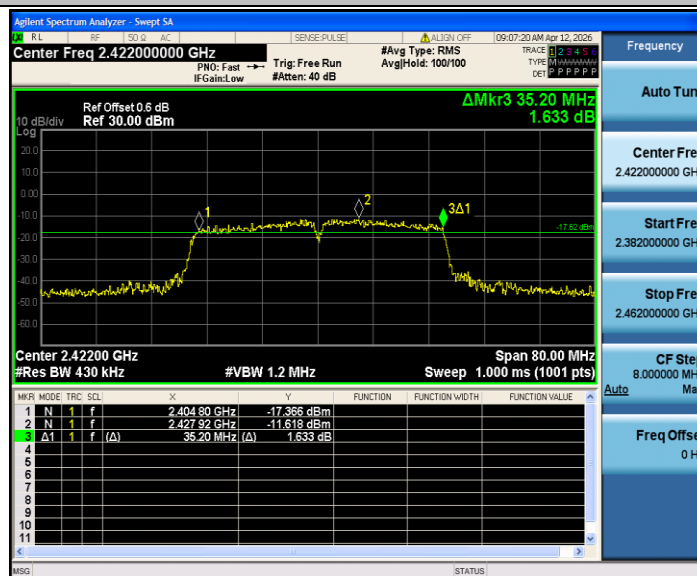
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



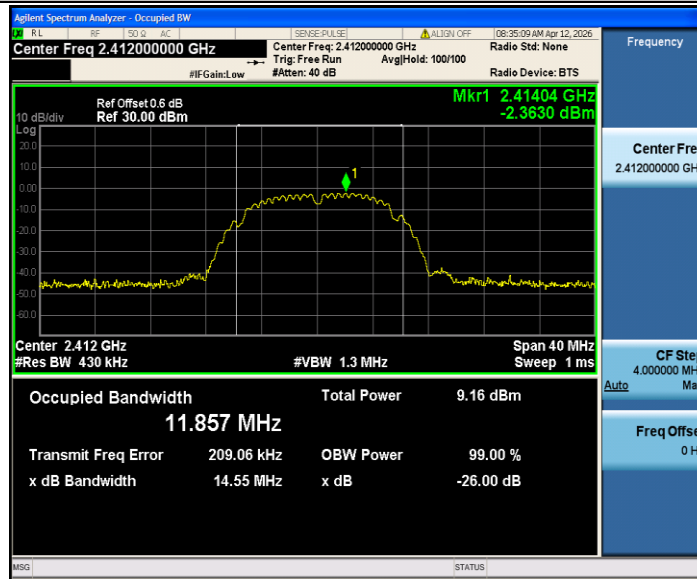
Appendix B: Occupied Channel Bandwidth

Test Result

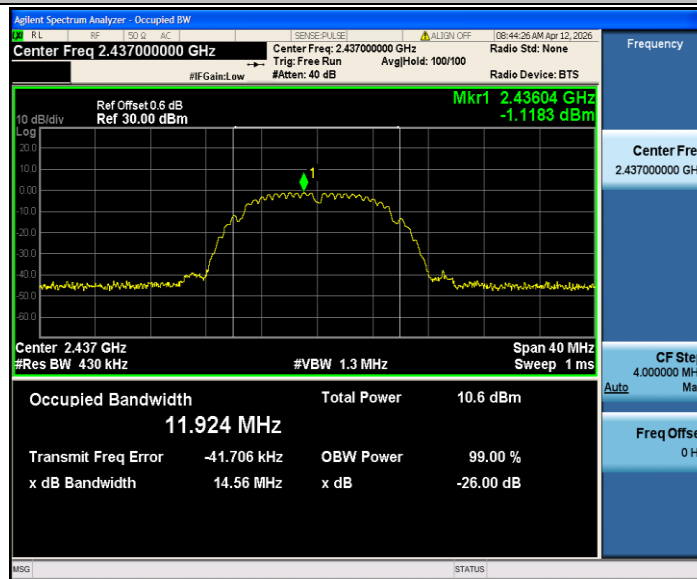
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.857	2406.2806	2418.1376	---	---
		2437	11.924	2430.9963	2442.9203	---	---
		2462	12.008	2456.0403	2468.0483	---	---
11G	Ant1	2412	16.661	2403.7966	2420.4576	---	---
		2437	16.698	2428.5994	2445.2974	---	---
		2462	16.842	2453.6384	2470.4804	---	---
11N20SISO	Ant1	2412	17.762	2403.2881	2421.0501	---	---
		2437	17.672	2428.0885	2445.7605	---	---
		2462	17.813	2453.1755	2470.9885	---	---
11N40SISO	Ant1	2422	35.930	2404.2338	2440.1638	---	---
		2437	36.188	2418.8378	2455.0258	---	---
		2452	36.734	2433.4943	2470.2283	---	---

Test Graphs

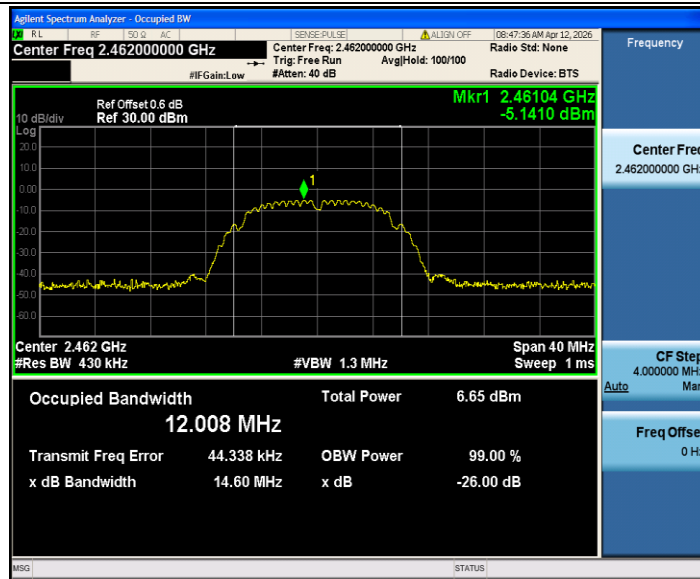
11B_Ant1_2412



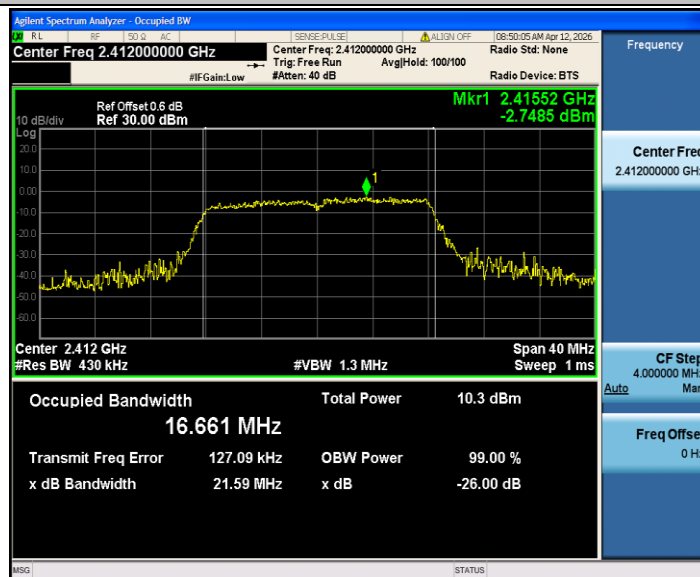
11B_Ant1_2437



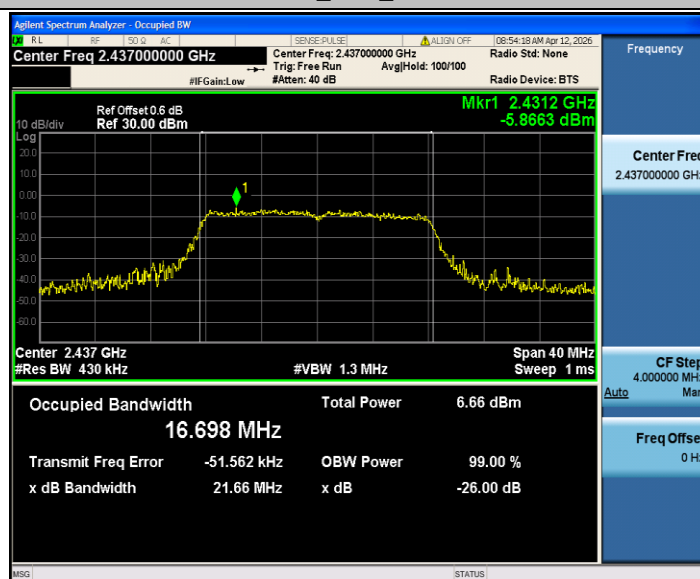
11B_Ant1_2462



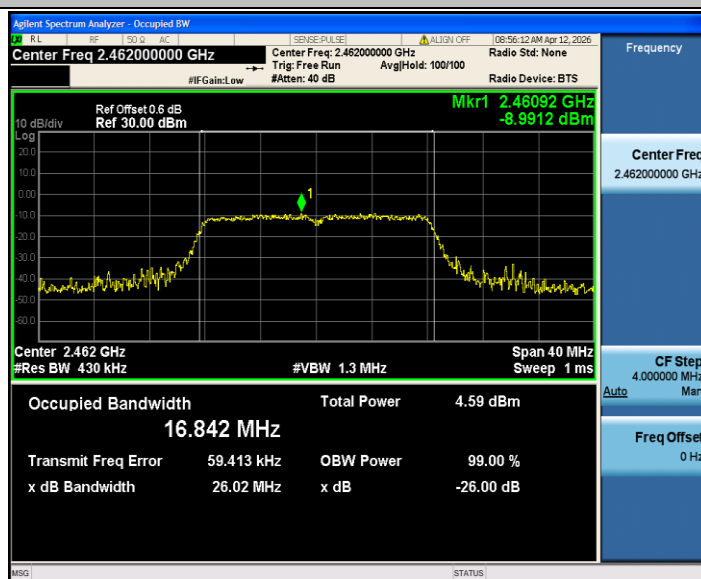
11G_Ant1_2412



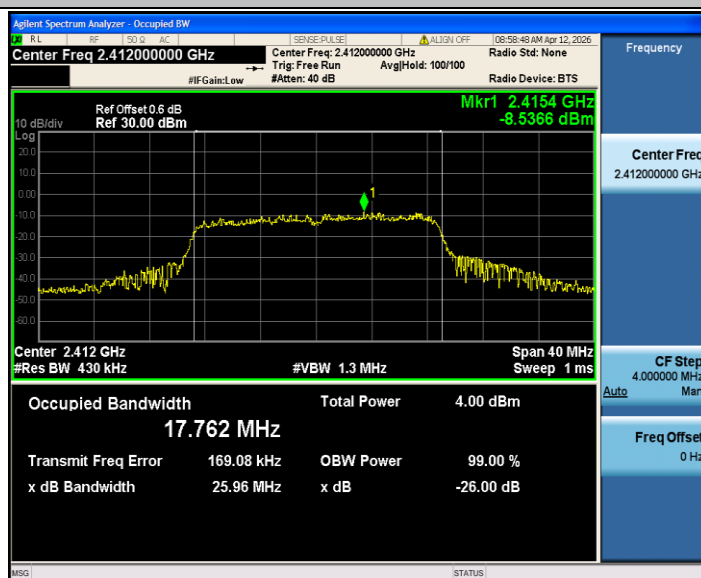
11G_Ant1_2437



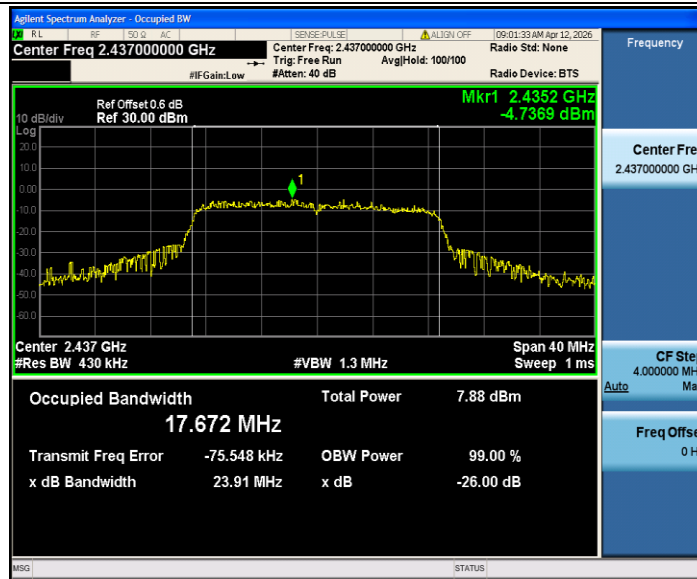
11G_Ant1_2462



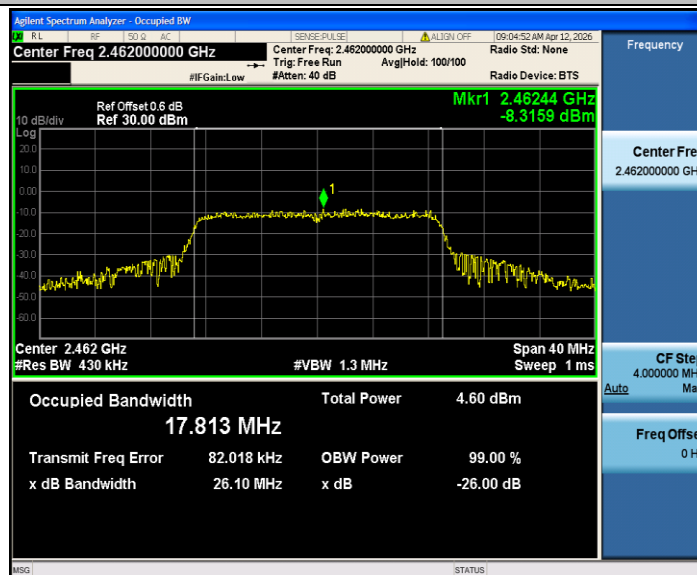
11N20SISO_Ant1_2412



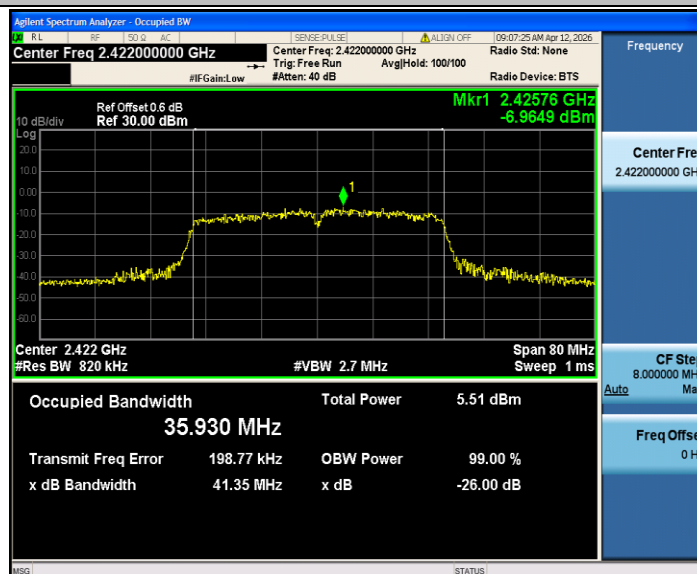
11N20SISO_Ant1_2437



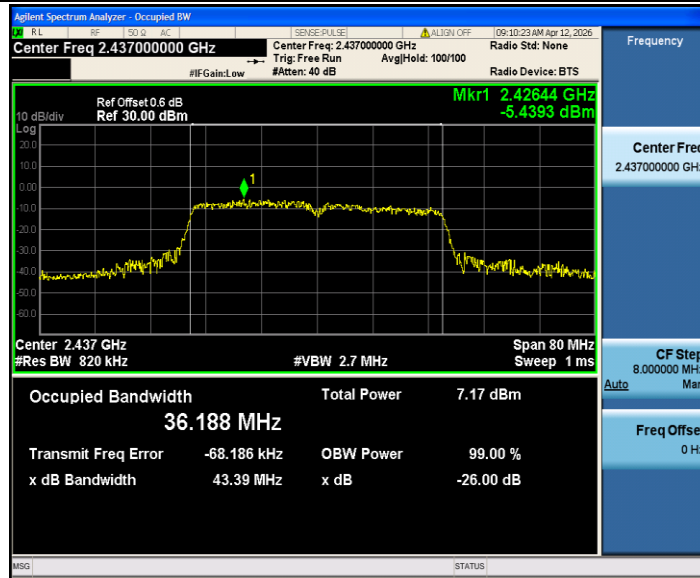
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	7.73	≤30.00	PASS
		2437	8.62	≤30.00	PASS
		2462	6.50	≤30.00	PASS
11G	Ant1	2412	5.11	≤30.00	PASS
		2437	7.77	≤30.00	PASS
		2462	5.71	≤30.00	PASS
11N20SISO	Ant1	2412	4.88	≤30.00	PASS
		2437	7.68	≤30.00	PASS
		2462	5.51	≤30.00	PASS
11N40SISO	Ant1	2422	5.57	≤30.00	PASS
		2437	7.32	≤30.00	PASS
		2452	4.92	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.01	≤8.00	PASS
		2437	-16.74	≤8.00	PASS
		2462	-19.57	≤8.00	PASS
11G	Ant1	2412	-27.25	≤8.00	PASS
		2437	-24.25	≤8.00	PASS
		2462	-28.31	≤8.00	PASS
11N20SISO	Ant1	2412	-27.24	≤8.00	PASS
		2437	-25.78	≤8.00	PASS
		2462	-27.48	≤8.00	PASS
11N40SISO	Ant1	2422	-30.30	≤8.00	PASS
		2437	-27.88	≤8.00	PASS
		2452	-31.21	≤8.00	PASS

Test Graphs

11B_Ant1_2412



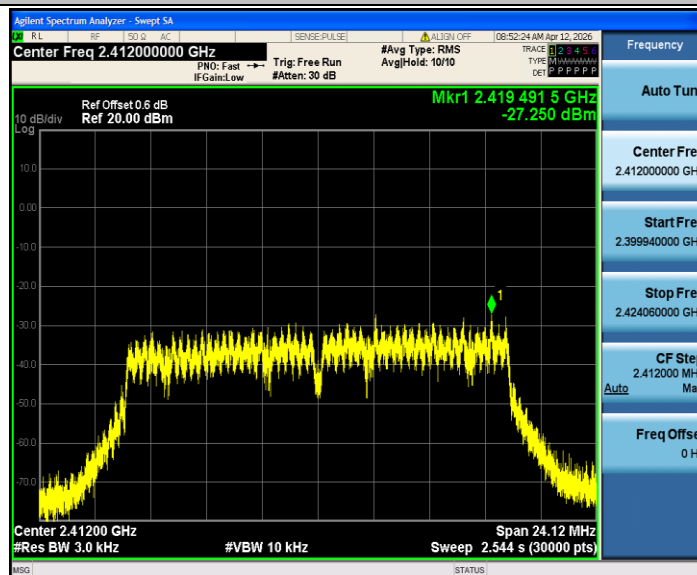
11B_Ant1_2437



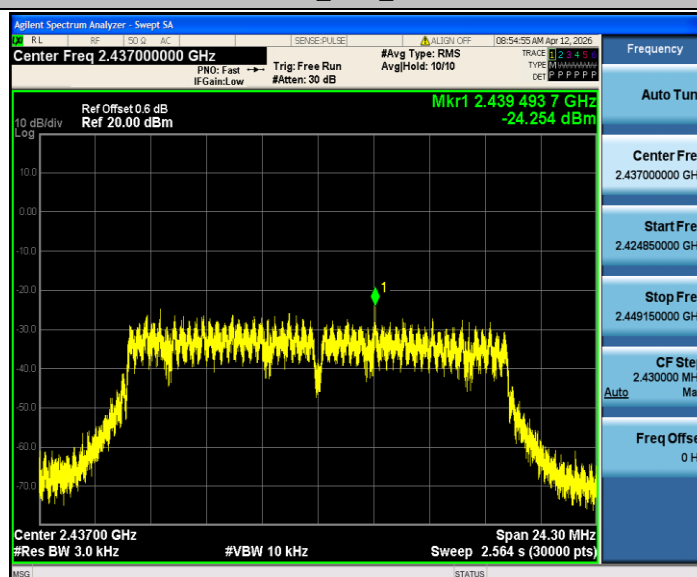
11B_Ant1_2462



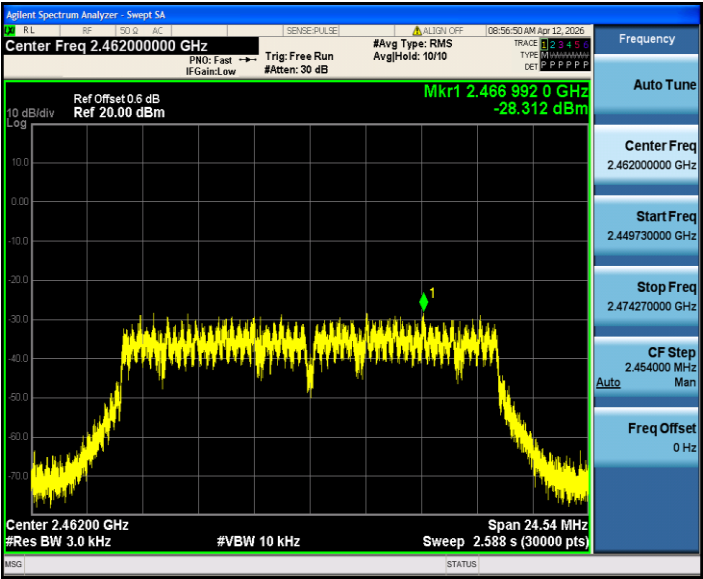
11G_Ant1_2412



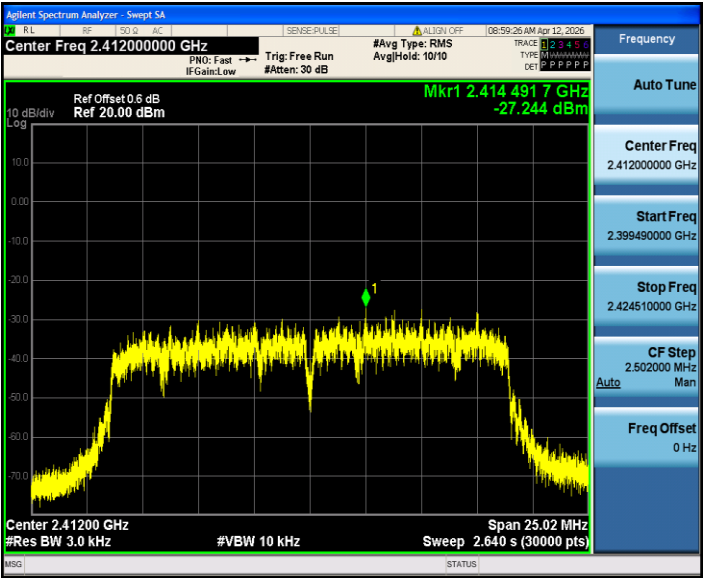
11G_Ant1_2437



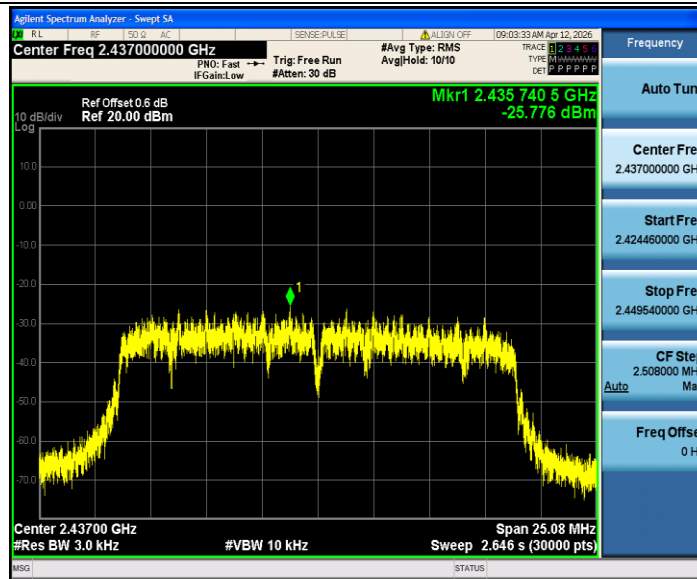
11G_Ant1_2462



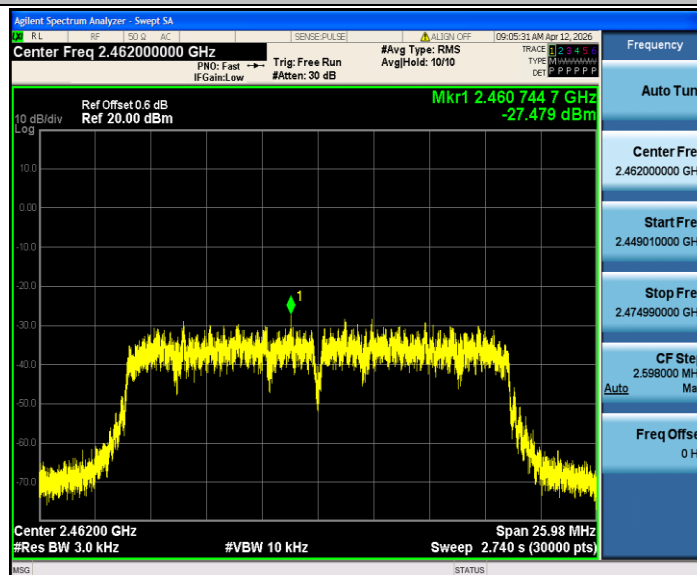
11N20SISO_Ant1_2412



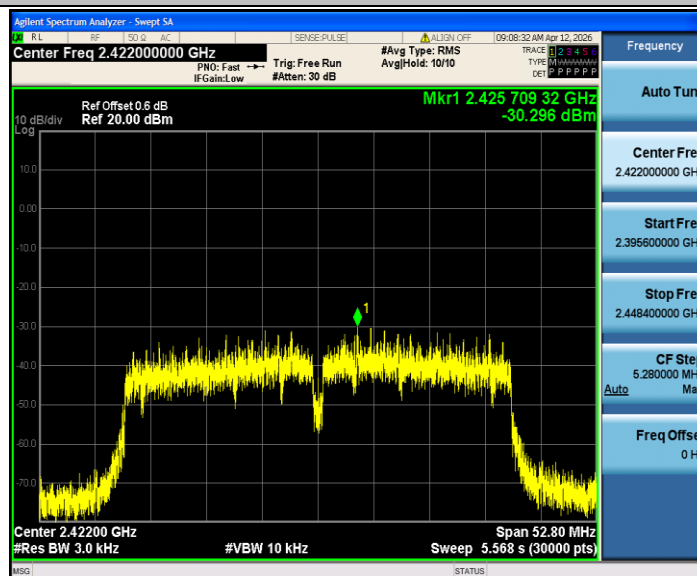
11N20SISO_Ant1_2437



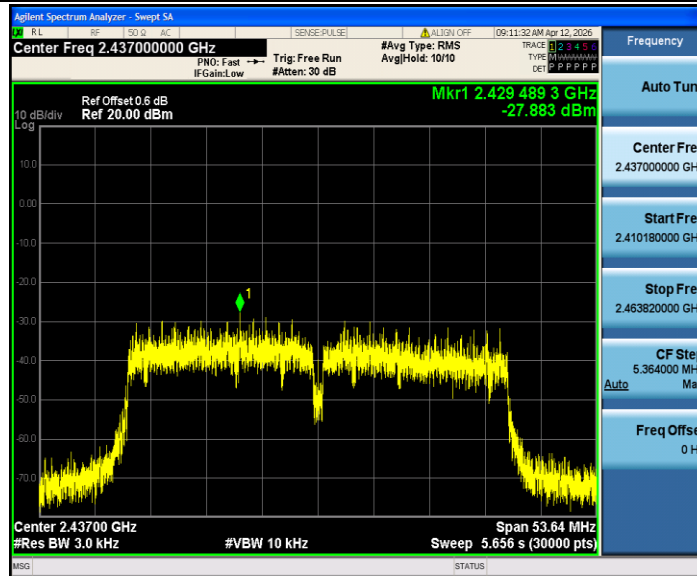
11N20SISO_Ant1_2462



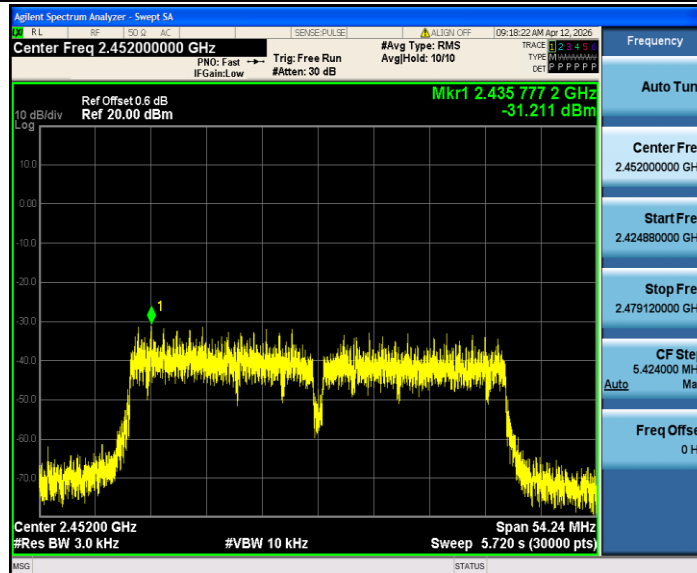
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



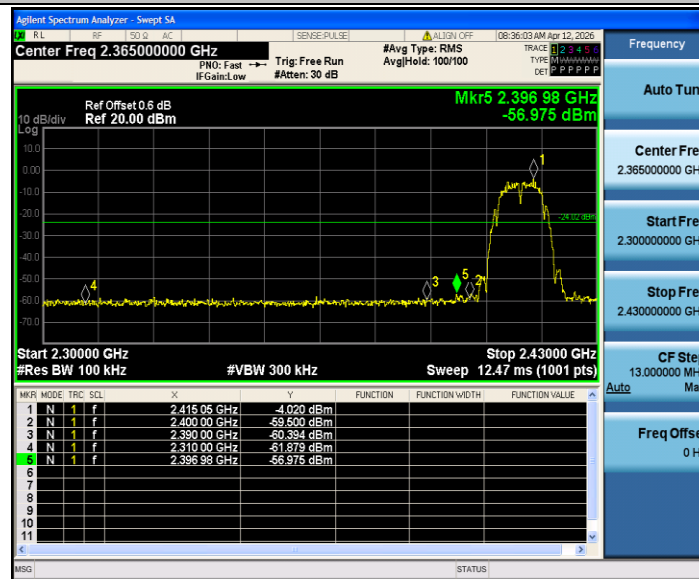
Appendix E: Band edge measurements

Test Result

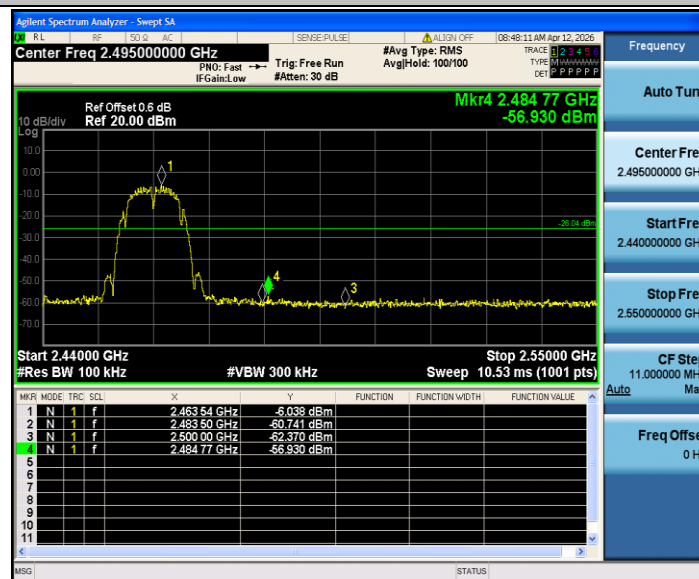
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.02	-56.98	≤-24.02	PASS
		High	2462	-6.04	-56.93	≤-26.04	PASS
11G	Ant1	Low	2412	-12.10	-47.35	≤-32.1	PASS
		High	2462	-12.43	-56.76	≤-32.43	PASS
11N20SISO	Ant1	Low	2412	-12.21	-47.61	≤-32.21	PASS
		High	2462	-11.88	-57.13	≤-31.88	PASS
11N40SISO	Ant1	Low	2422	-13.91	-47.02	≤-33.91	PASS
		High	2452	-14.68	-50.75	≤-34.68	PASS

Test Graphs

11B_Ant1_Low_2412



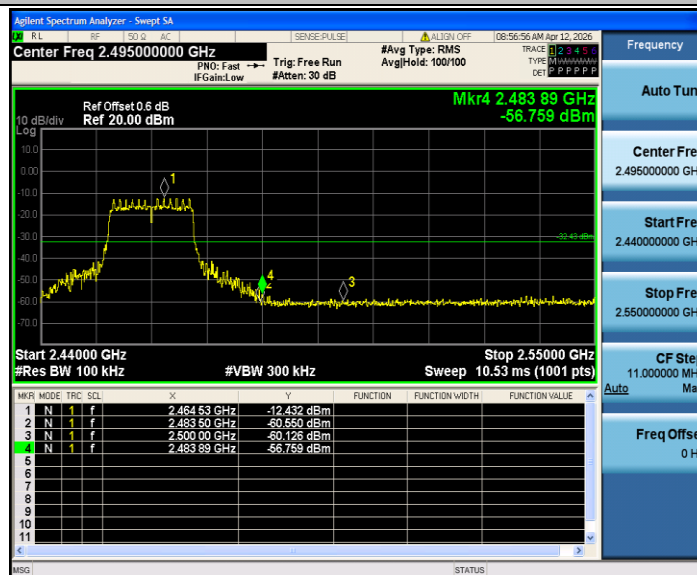
11B_Ant1_High_2462



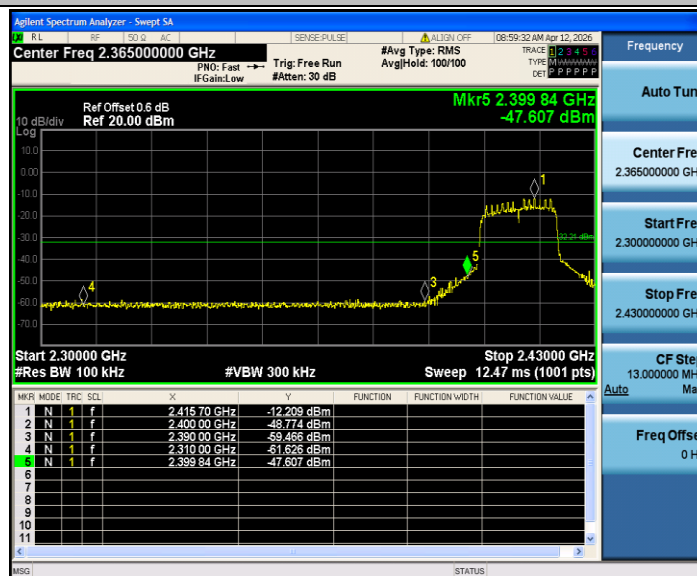
11G_Ant1_Low_2412



11G_Ant1_High_2462



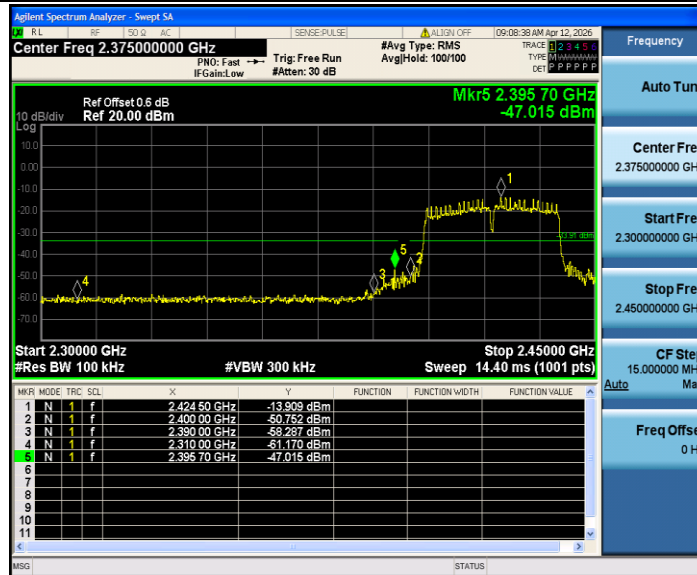
11N20SISO_Ant1_Low_2412



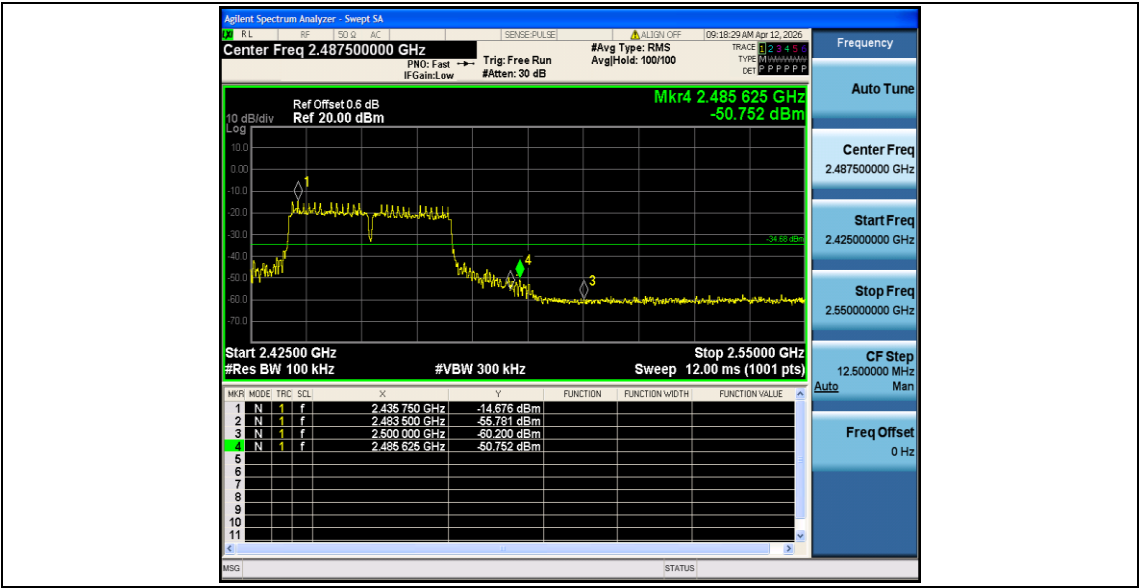
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

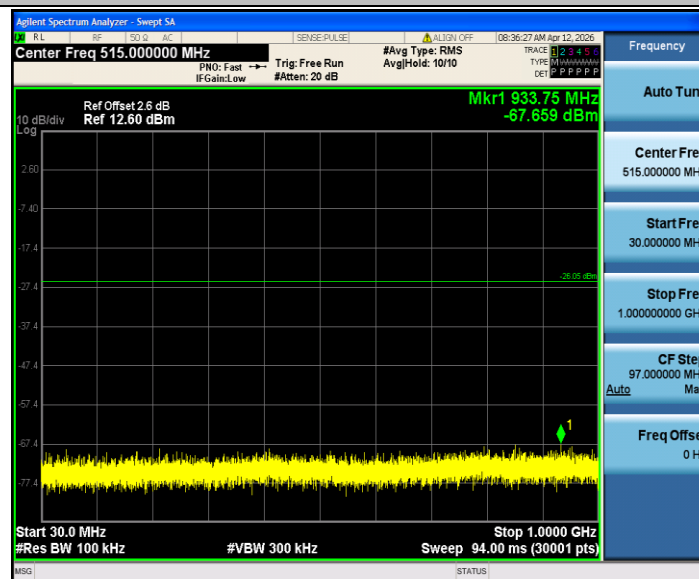
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.05	-6.05	---	PASS
			30~1000	-6.05	-67.66	≤-26.05	PASS
			1000~26500	-6.05	-54.98	≤-26.05	PASS
		2437	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-68.01	≤-24.24	PASS
			1000~26500	-4.24	-55.28	≤-24.24	PASS
		2462	Reference	-7.39	-7.39	---	PASS
			30~1000	-7.39	-67.44	≤-27.39	PASS
			1000~26500	-7.39	-54.69	≤-27.39	PASS
11G	Ant1	2412	Reference	-13.04	-13.04	---	PASS
			30~1000	-13.04	-67.82	≤-33.04	PASS
			1000~26500	-13.04	-54.74	≤-33.04	PASS
		2437	Reference	-9.74	-9.74	---	PASS
			30~1000	-9.74	-68.15	≤-29.74	PASS
			1000~26500	-9.74	-55.2	≤-29.74	PASS
		2462	Reference	-12.75	-12.75	---	PASS
			30~1000	-12.75	-67.42	≤-32.75	PASS
			1000~26500	-12.75	-56.02	≤-32.75	PASS
11N20SISO	Ant1	2412	Reference	-12.63	-12.63	---	PASS
			30~1000	-12.63	-67.95	≤-32.63	PASS
			1000~26500	-12.63	-55.19	≤-32.63	PASS
		2437	Reference	-9.87	-9.87	---	PASS
			30~1000	-9.87	-66.71	≤-29.87	PASS
			1000~26500	-9.87	-55.18	≤-29.87	PASS
		2462	Reference	-12.34	-12.34	---	PASS
			30~1000	-12.34	-67.25	≤-32.34	PASS
			1000~26500	-12.34	-55.52	≤-32.34	PASS
11N40SISO	Ant1	2422	Reference	-13.97	-13.97	---	PASS
			30~1000	-13.97	-67.98	≤-33.97	PASS
			1000~26500	-13.97	-54.77	≤-33.97	PASS
		2437	Reference	-12.54	-12.54	---	PASS
			30~1000	-12.54	-68.2	≤-32.54	PASS
			1000~26500	-12.54	-55.52	≤-32.54	PASS
		2452	Reference	-15.17	-15.17	---	PASS
			30~1000	-15.17	-68.03	≤-35.17	PASS
			1000~26500	-15.17	-55.35	≤-35.17	PASS

Test Graphs

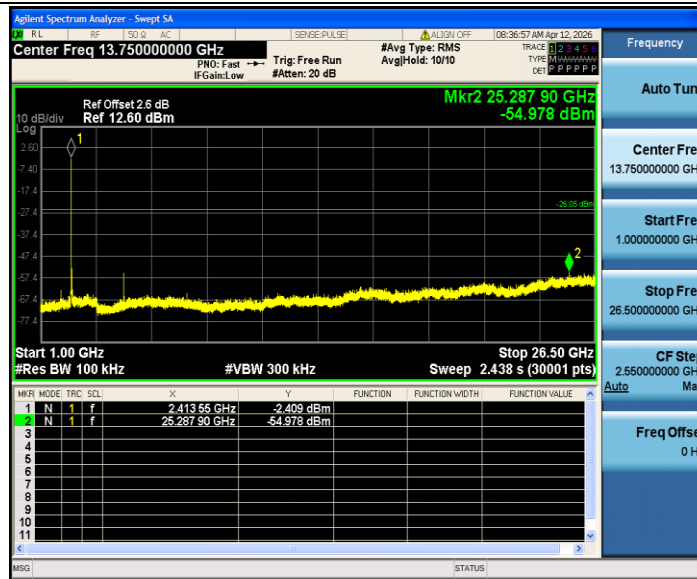
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



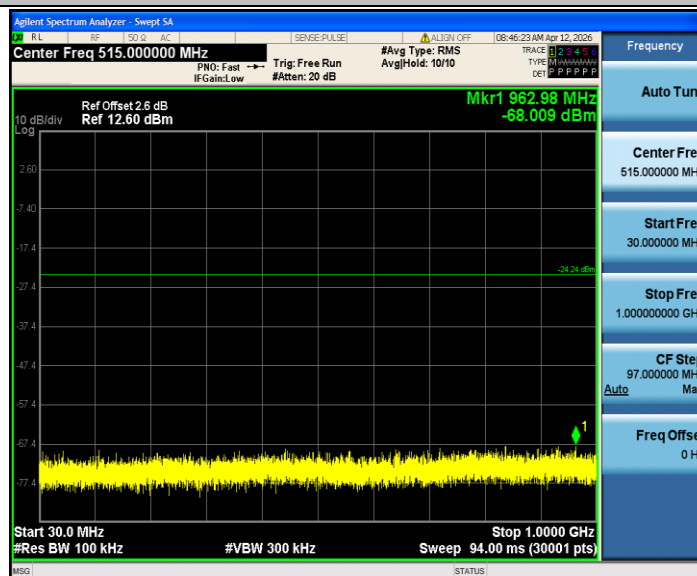
11B_Ant1_2412_1000~26500



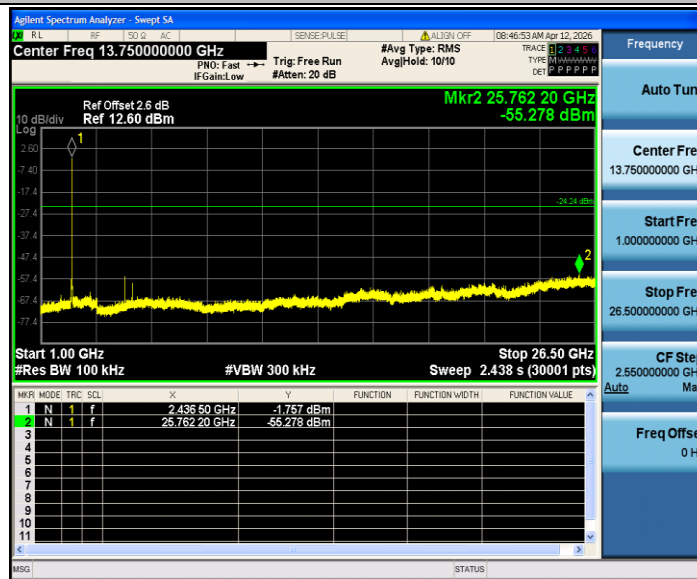
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



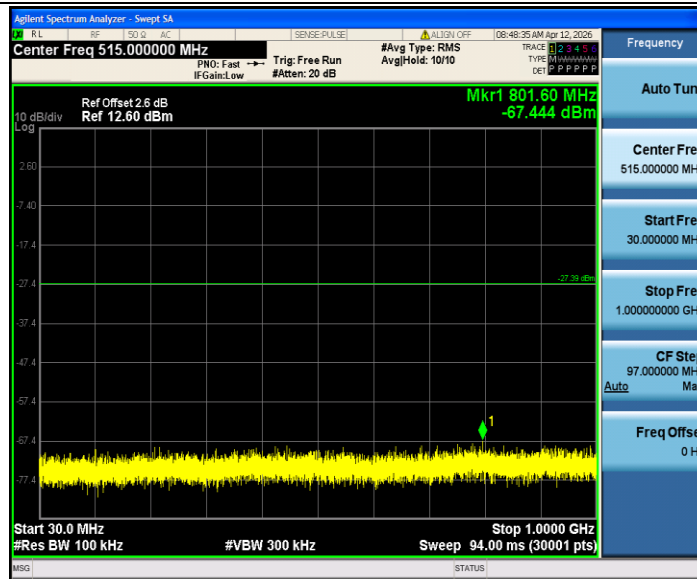
11B_Ant1_2437_1000~26500



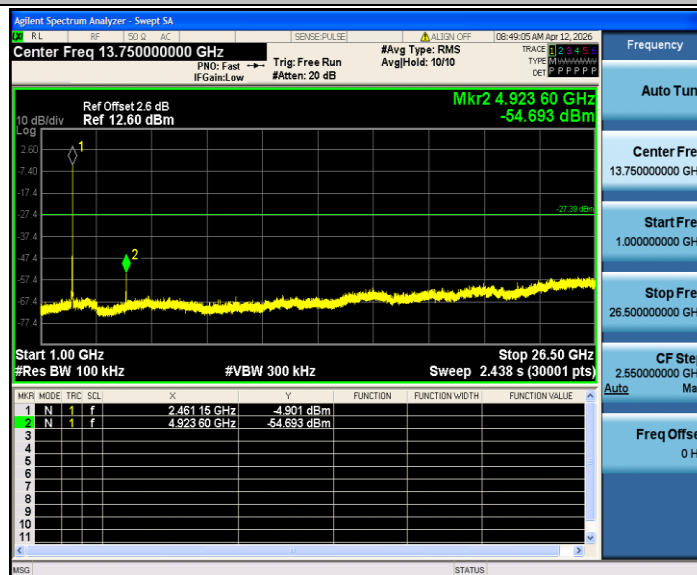
11B_Ant1_2462_0~Reference



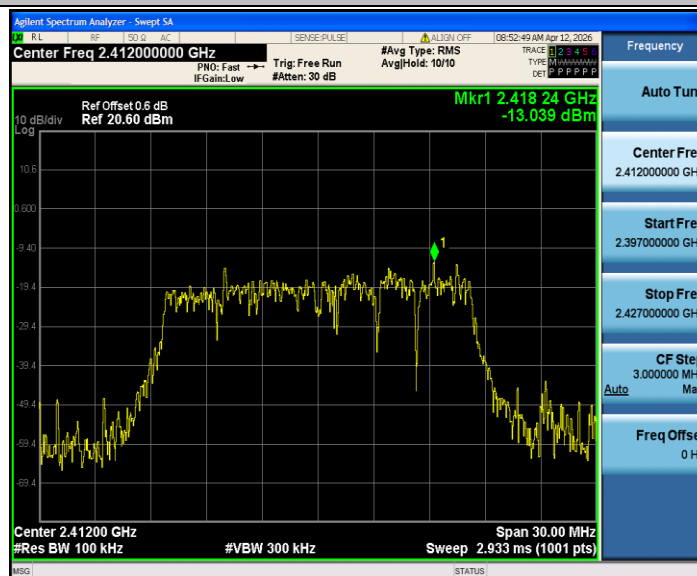
11B_Ant1_2462_30~1000



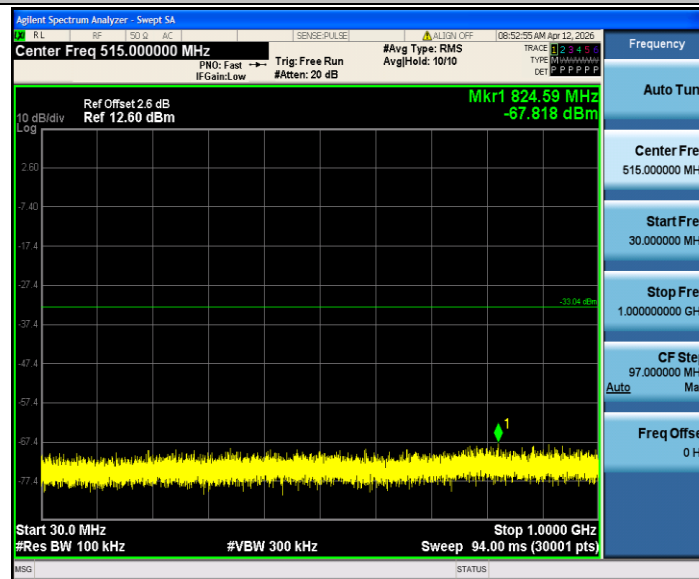
11B_Ant1_2462_1000~26500



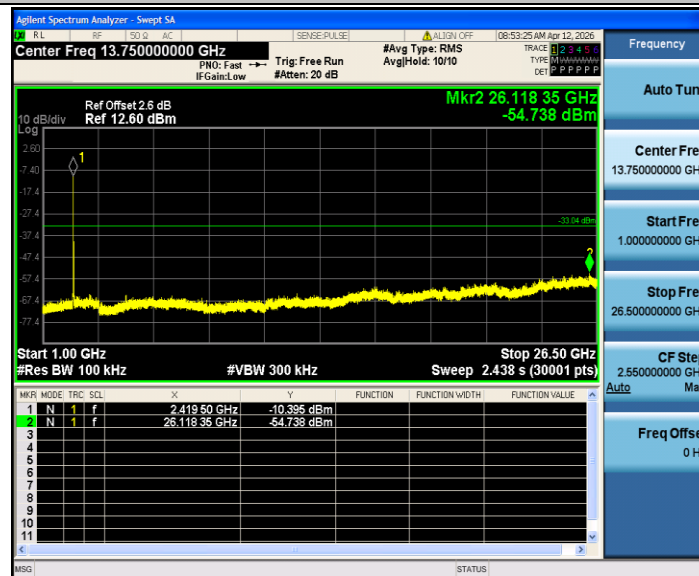
11G_Ant1_2412_0~Reference



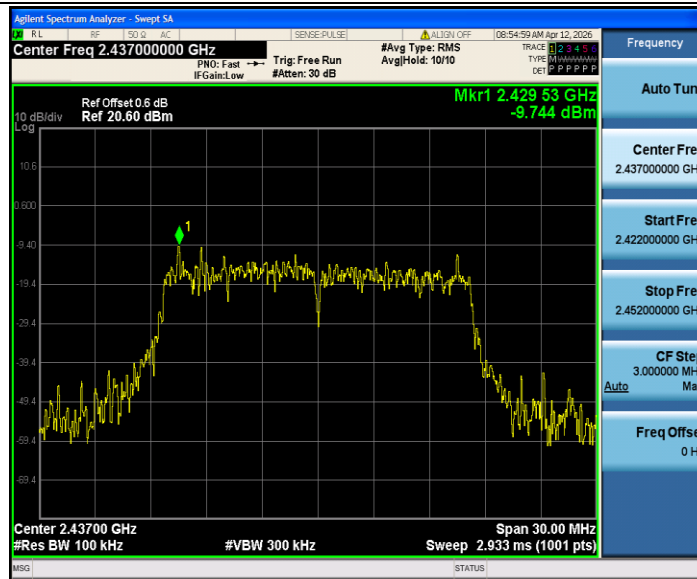
11G_Ant1_2412_30~1000



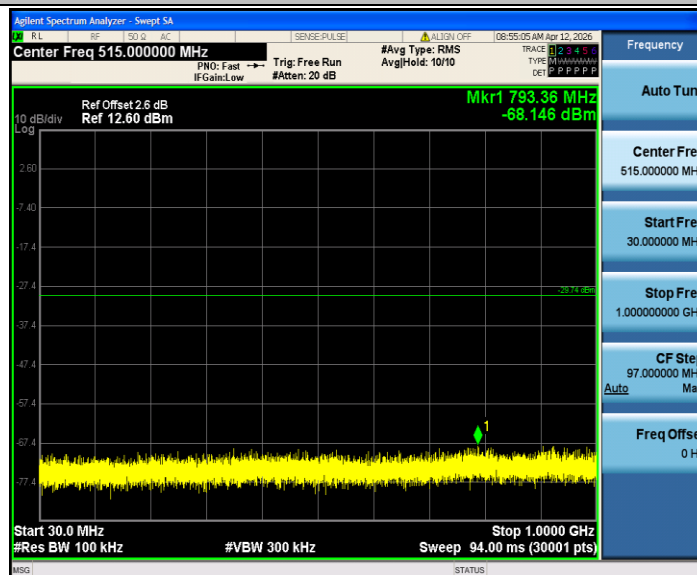
11G_Ant1_2412_1000~26500



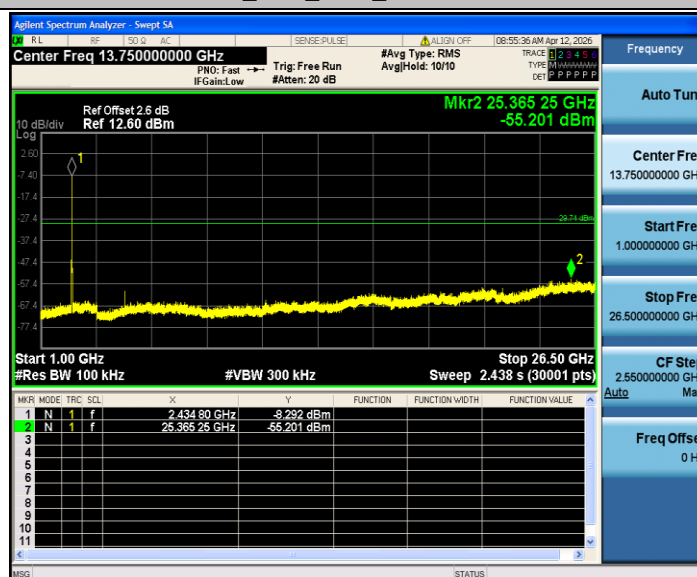
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



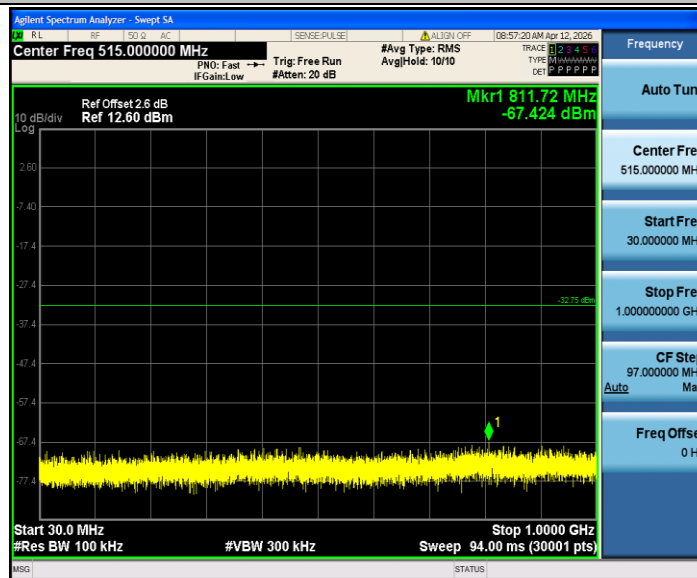
11G_Ant1_2437_1000~26500



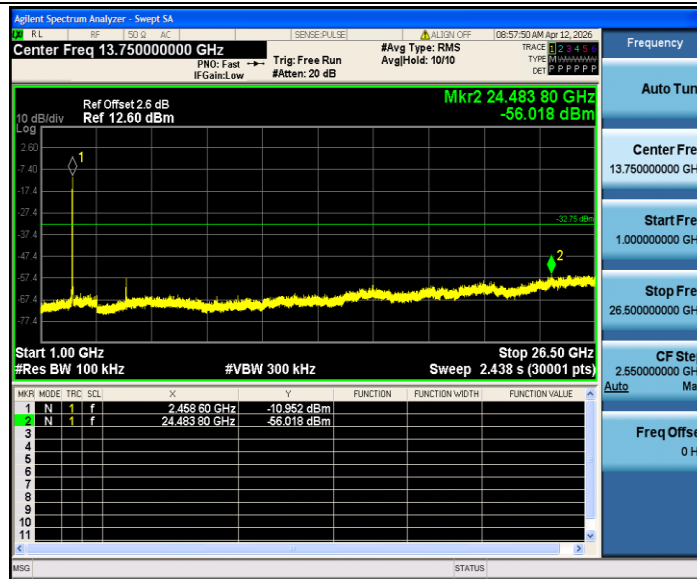
11G_Ant1_2462_0~Reference



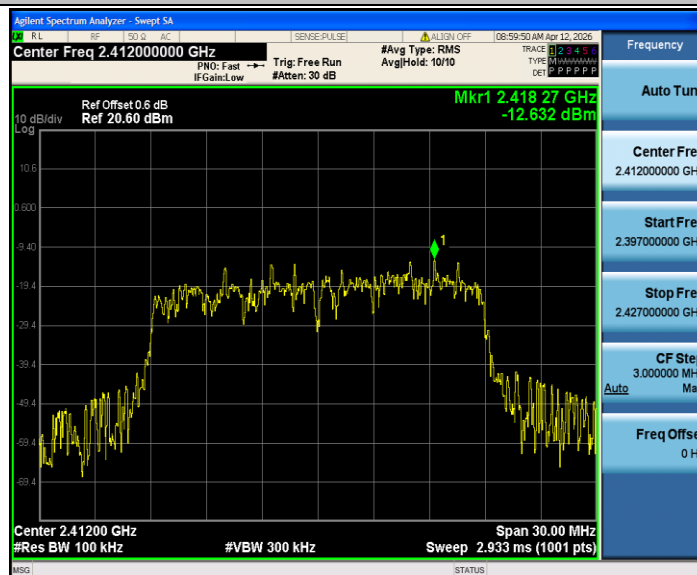
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

