

Appendix: 2.4G Wi-Fi

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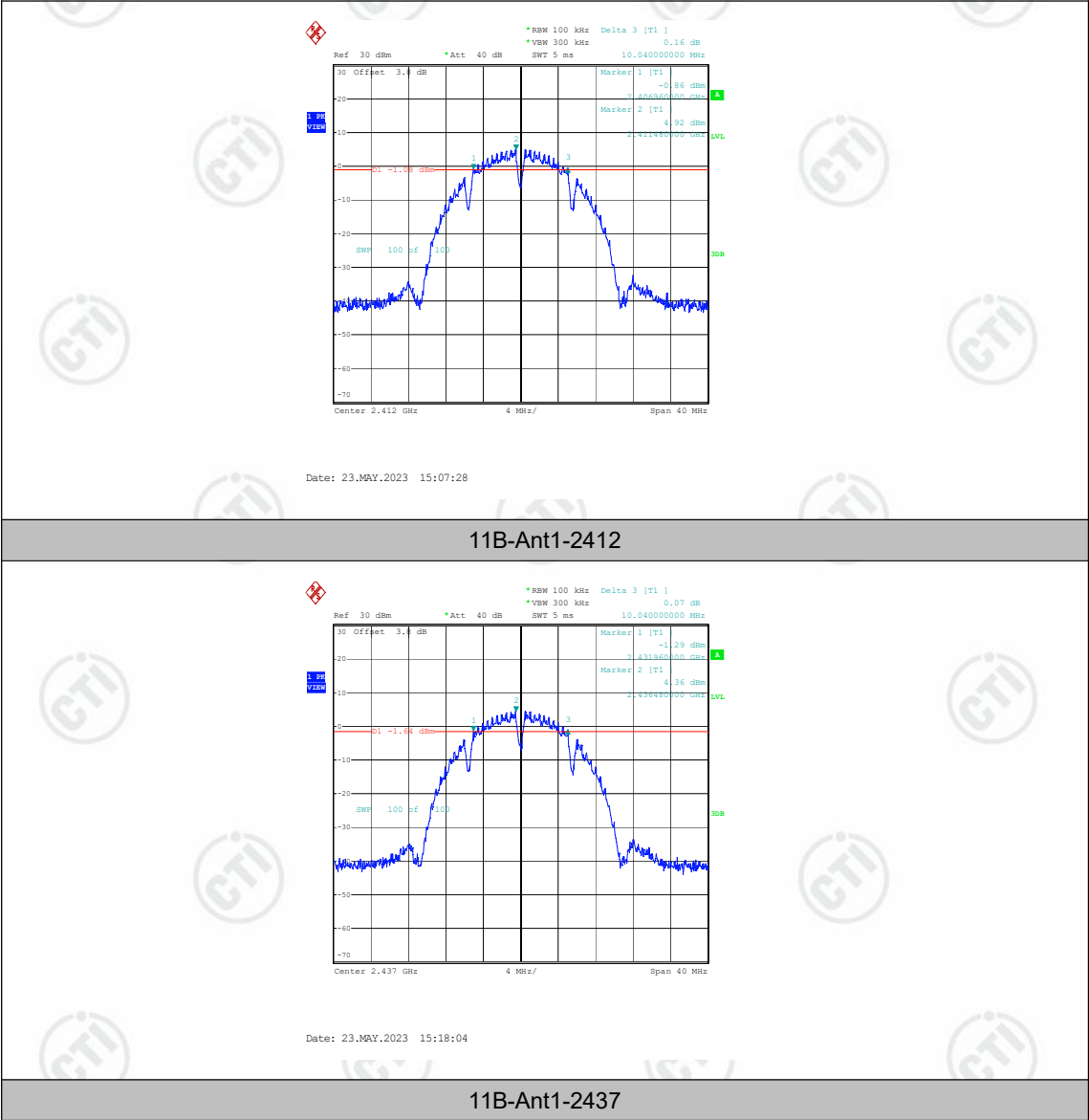
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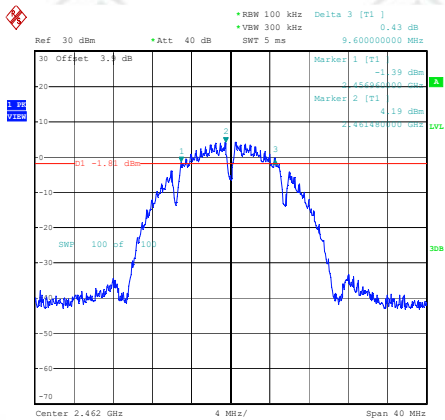
Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.04	2406.96	2417.00	0.5	PASS
11B	Ant1	2437	10.04	2431.96	2442.00	0.5	PASS
11B	Ant1	2462	9.60	2456.96	2466.56	0.5	PASS
11G	Ant1	2412	16.48	2403.76	2420.24	0.5	PASS
11G	Ant1	2437	16.52	2428.72	2445.24	0.5	PASS
11G	Ant1	2462	16.56	2453.72	2470.28	0.5	PASS
11N20SISO	Ant1	2412	17.76	2403.12	2420.88	0.5	PASS
11N20SISO	Ant1	2437	17.76	2428.12	2445.88	0.5	PASS
11N20SISO	Ant1	2462	17.76	2453.12	2470.88	0.5	PASS

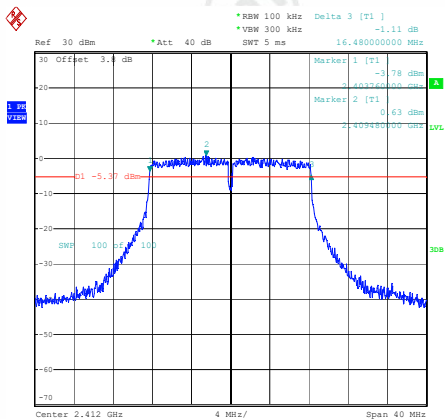
Test Graphs





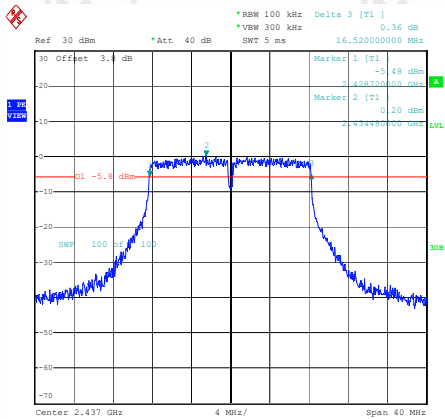
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11B-Ant1-2462

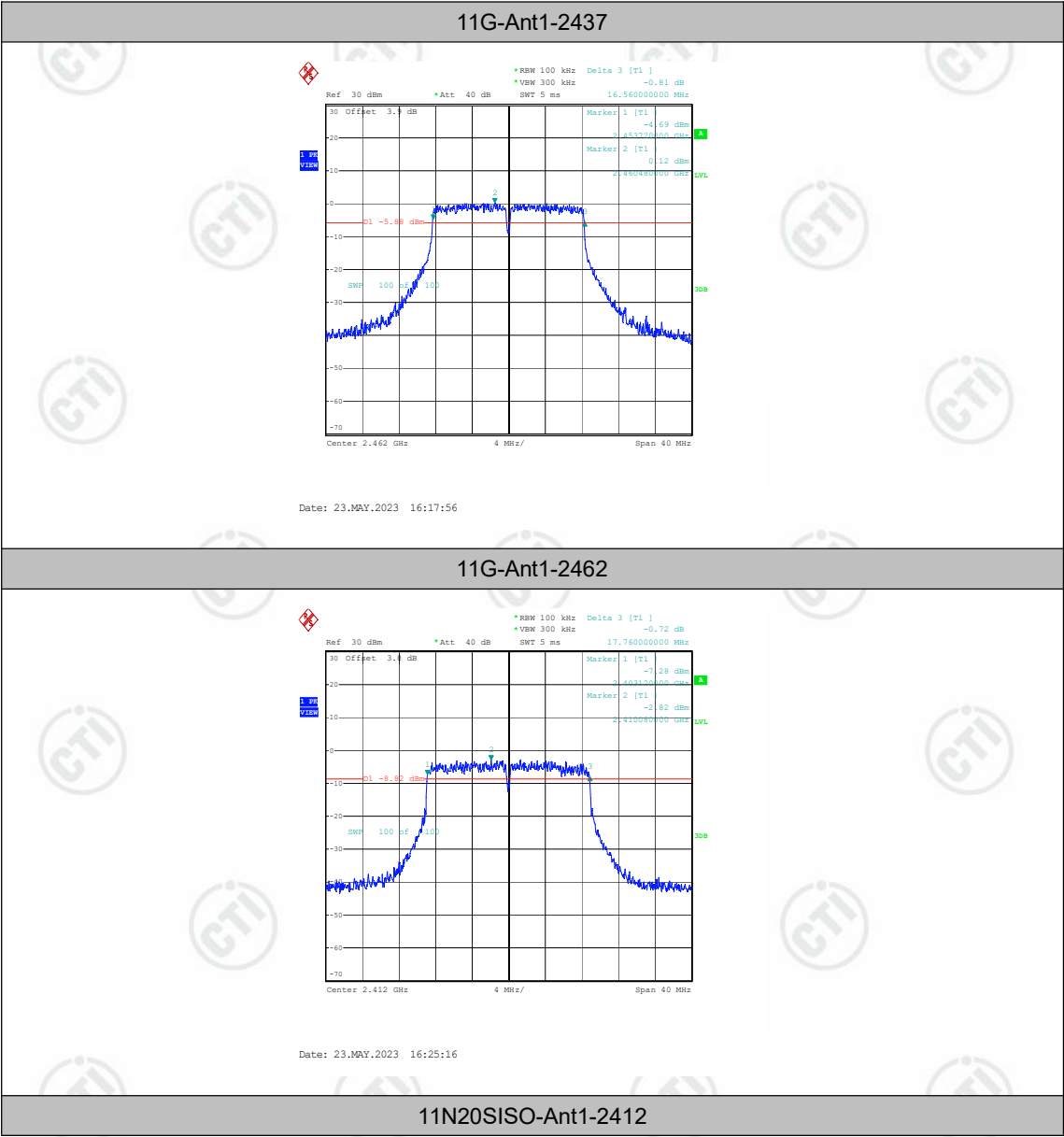


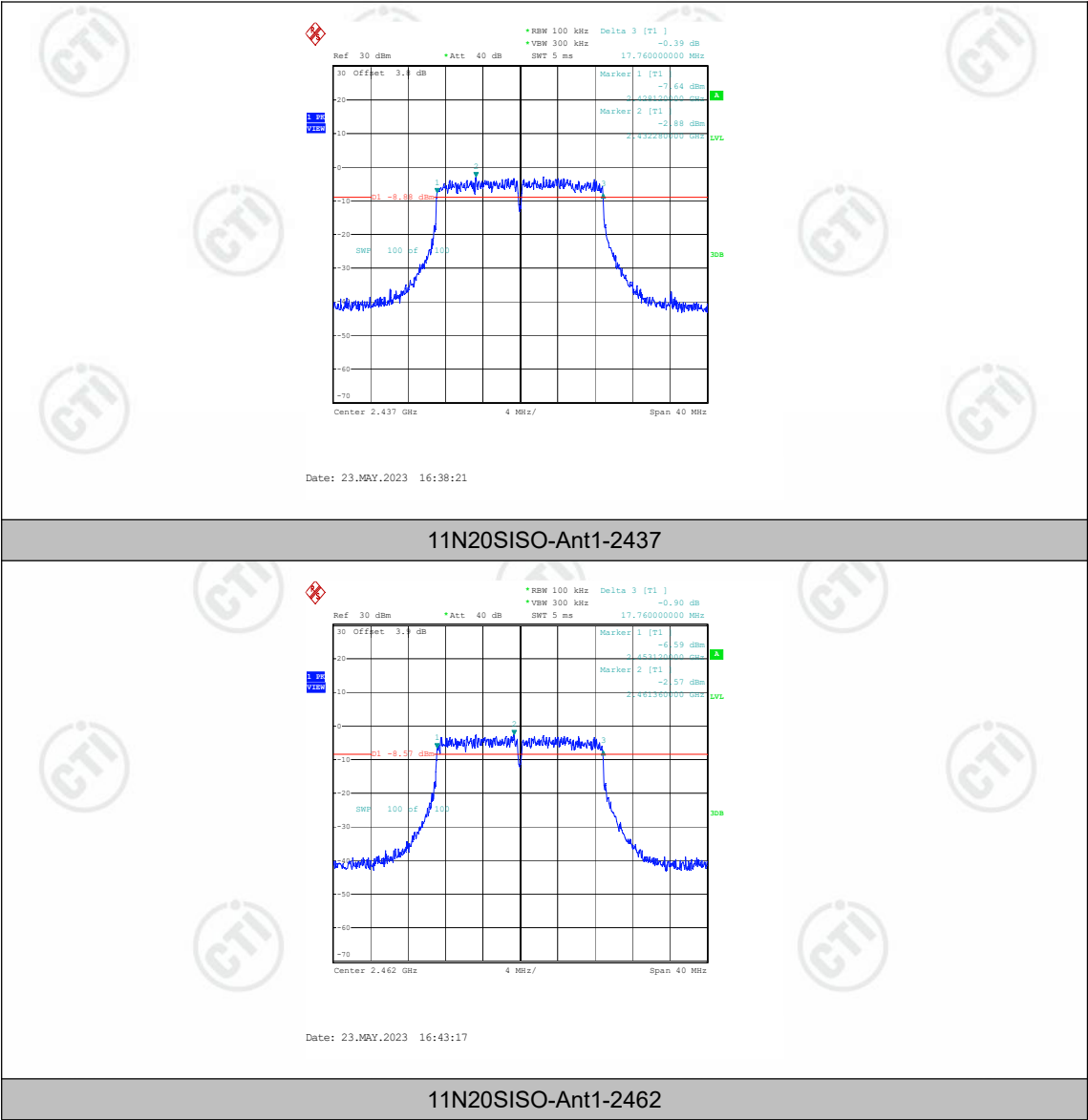
Date: 23.MAY.2023 15:52:17

11G-Ant1-2412



Date: 23.MAY.2023 16:05:29



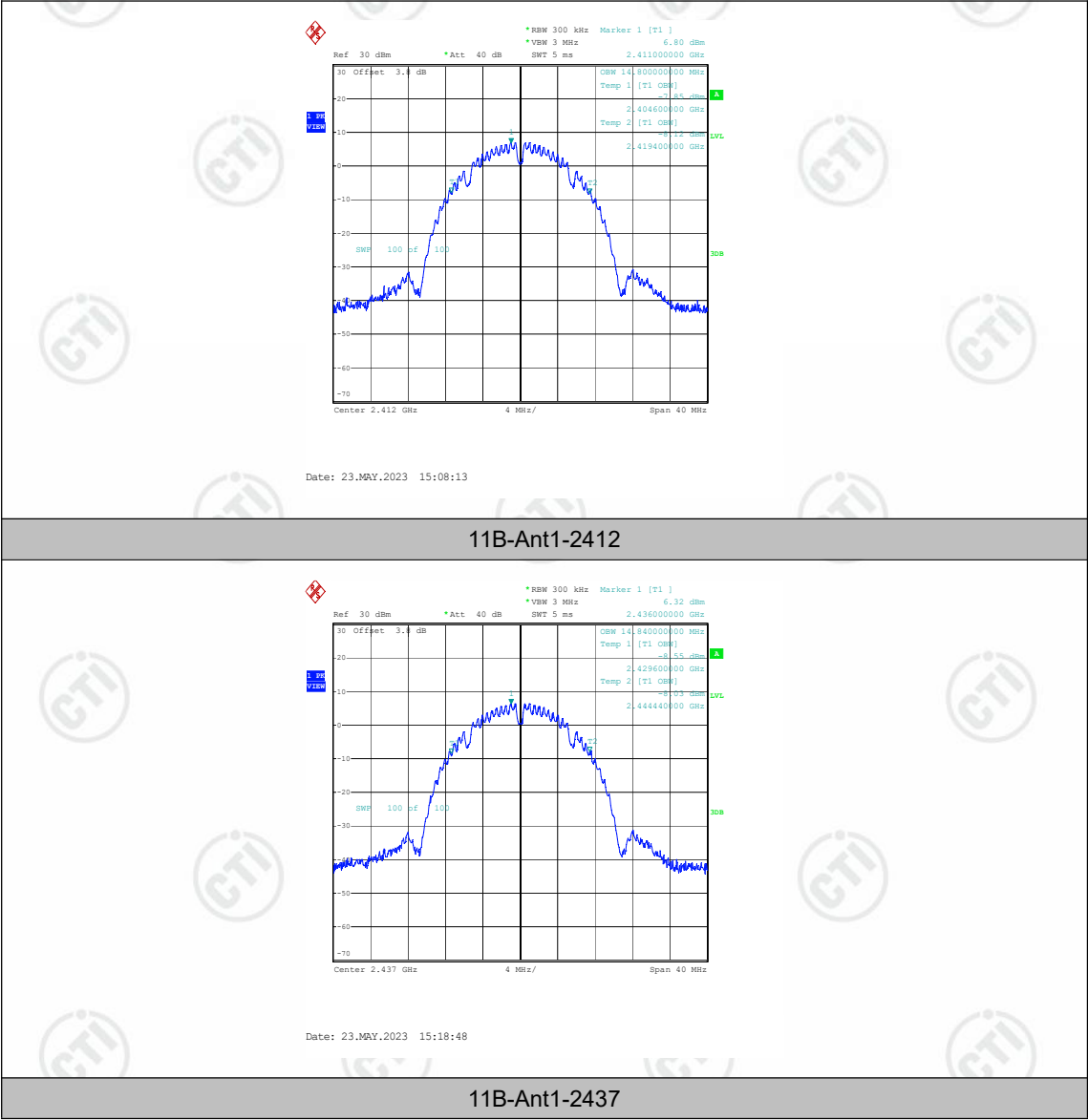


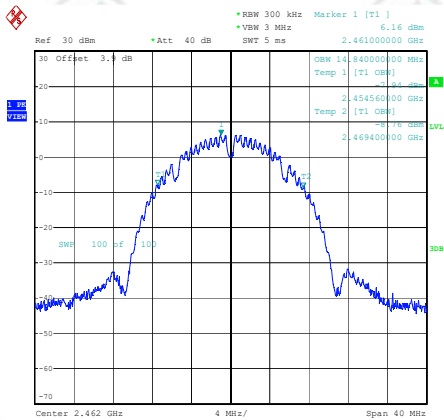
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.8	---	---
11B	Ant1	2437	14.84	---	---
11B	Ant1	2462	14.84	---	---
11G	Ant1	2412	16.96	---	---
11G	Ant1	2437	17	---	---
11G	Ant1	2462	17	---	---
11N20SISO	Ant1	2412	17.84	---	---
11N20SISO	Ant1	2437	17.92	---	---
11N20SISO	Ant1	2462	17.88	---	---

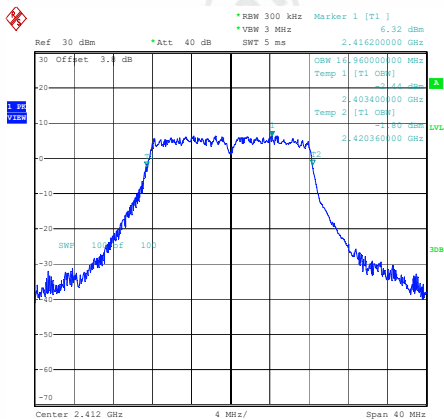
Test Graphs





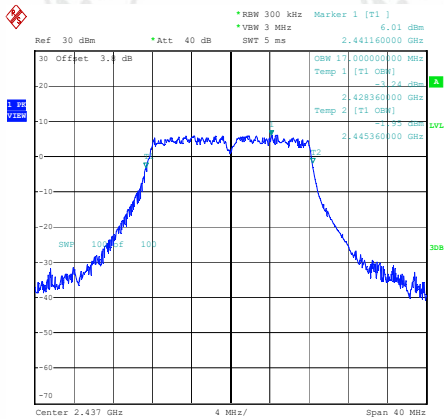
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11B-Ant1-2462

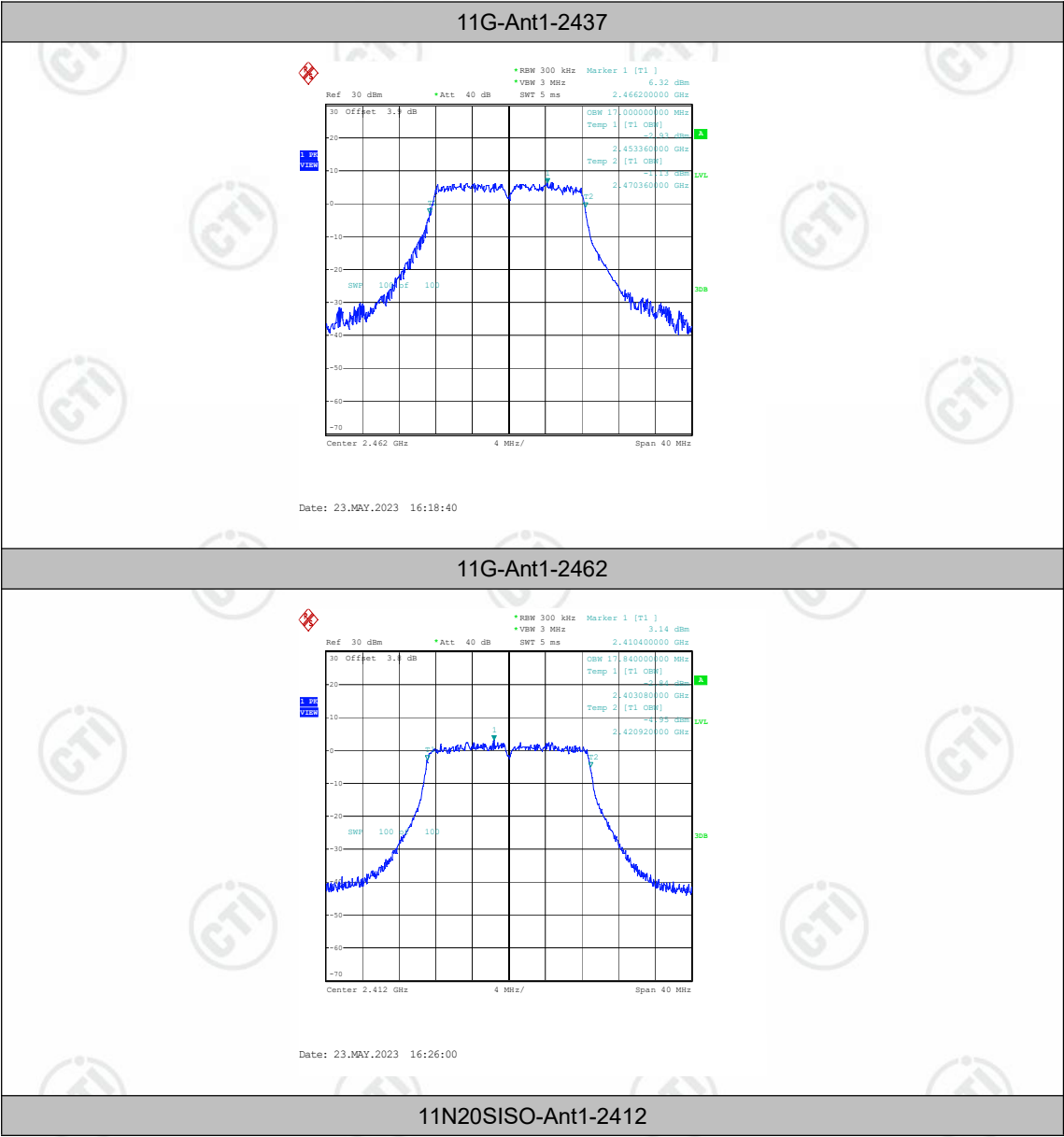


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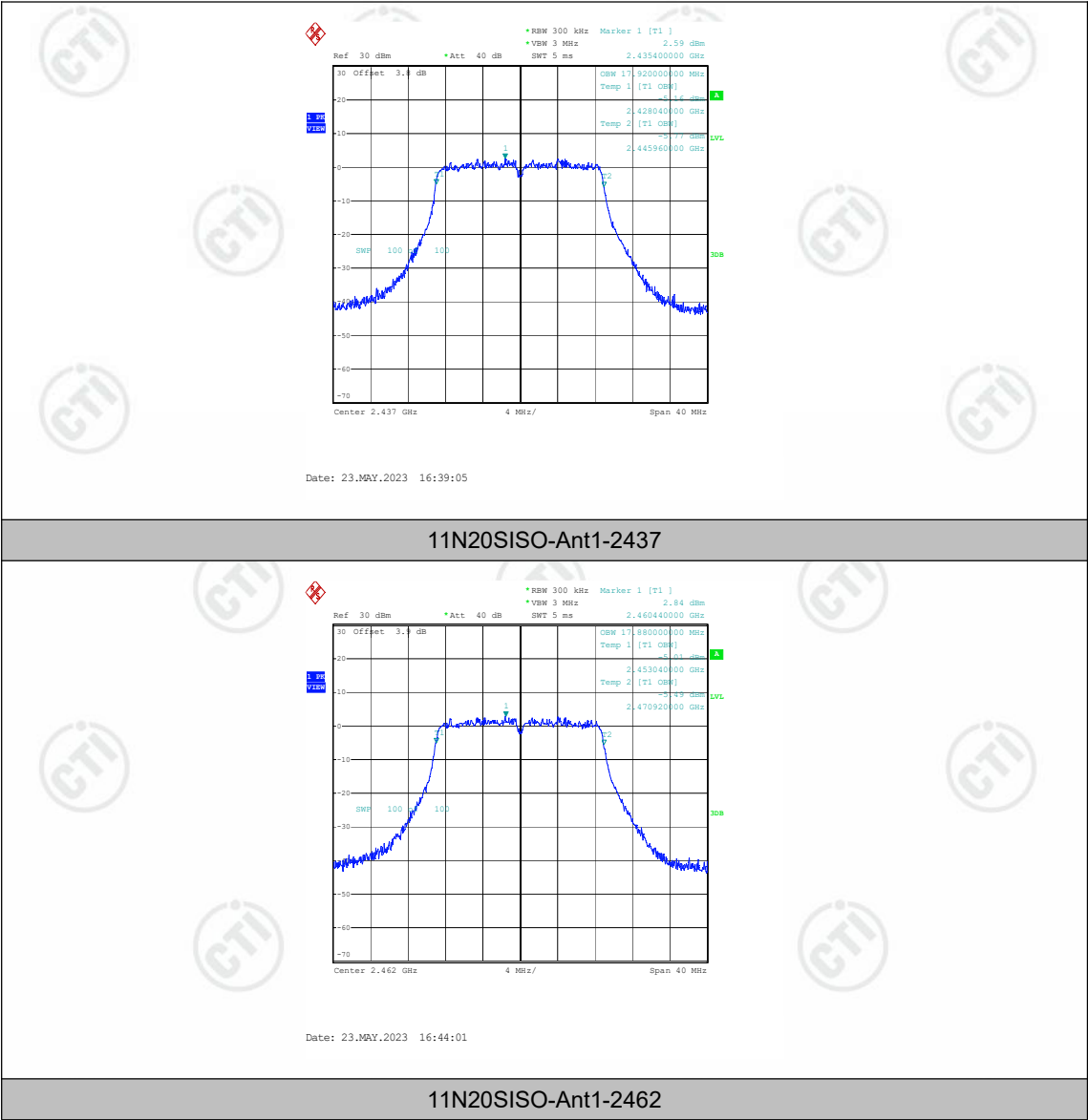
11G-Ant1-2412



Date: 23.MAY.2023 16:06:13



11N20SISO-Ant1-2412

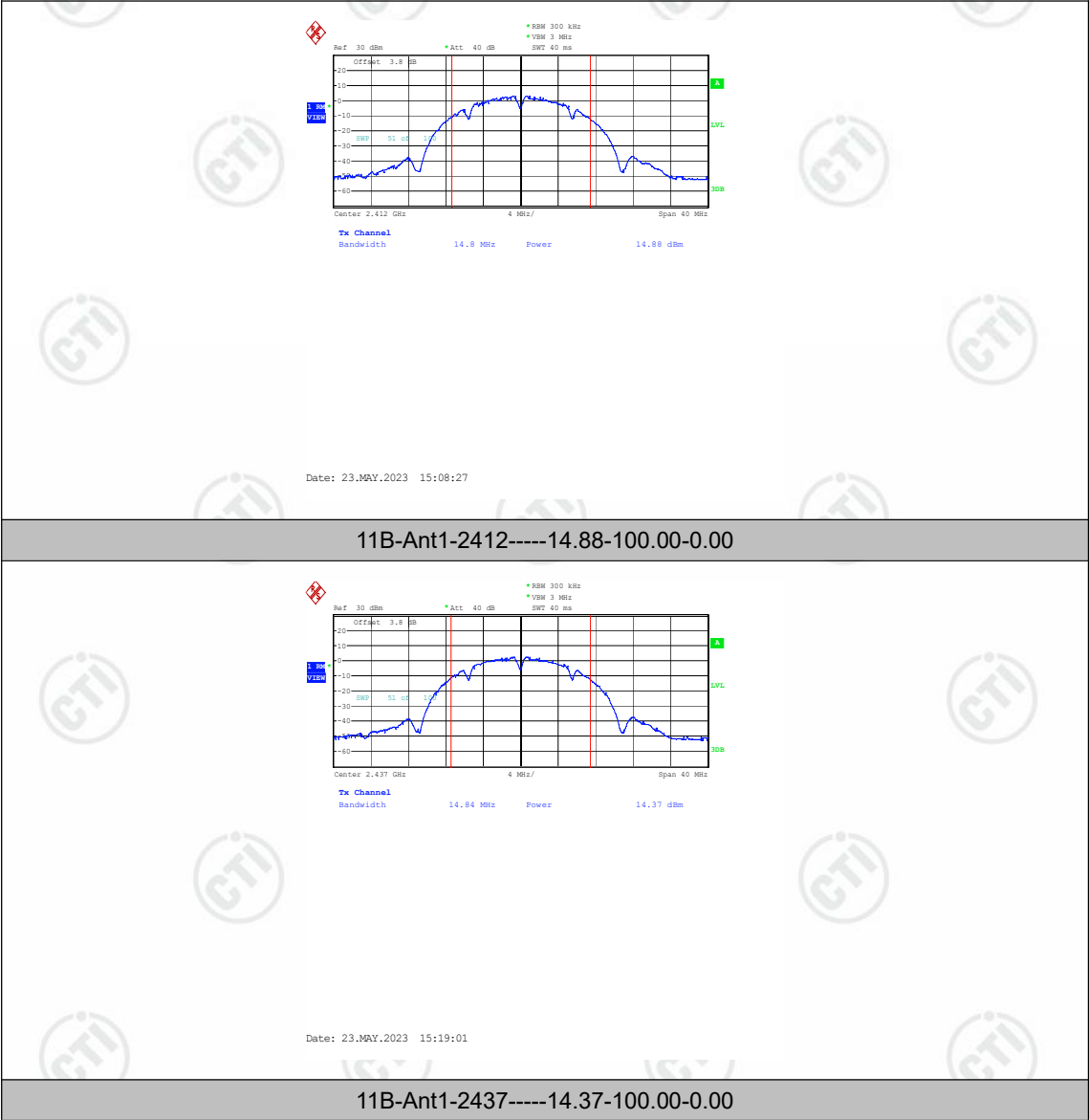


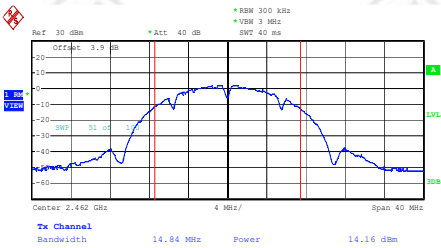
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency [MHz]	Peak Power [dBm]	Conducted Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	14.88	≤30.00	17.53	≤36.00	PASS
11B	Ant1	2437	14.37	≤30.00	17.02	≤36.00	PASS
11B	Ant1	2462	14.16	≤30.00	16.81	≤36.00	PASS
11G	Ant1	2412	14.67	≤30.00	17.32	≤36.00	PASS
11G	Ant1	2437	14.33	≤30.00	16.98	≤36.00	PASS
11G	Ant1	2462	14.67	≤30.00	17.32	≤36.00	PASS
11N20SISO	Ant1	2412	10.61	≤30.00	13.26	≤36.00	PASS
11N20SISO	Ant1	2437	10.35	≤30.00	13.00	≤36.00	PASS
11N20SISO	Ant1	2462	10.72	≤30.00	13.37	≤36.00	PASS

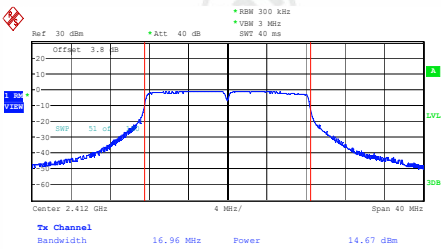
Test Graphs Peak





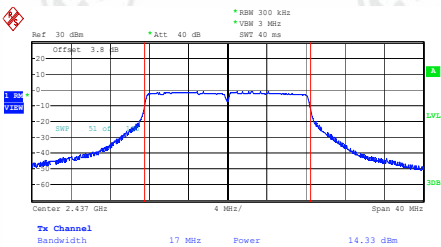
Date: 23.MAY.2023 15:23:27

11B-Ant1-2462-----14.16-100.00-0.00

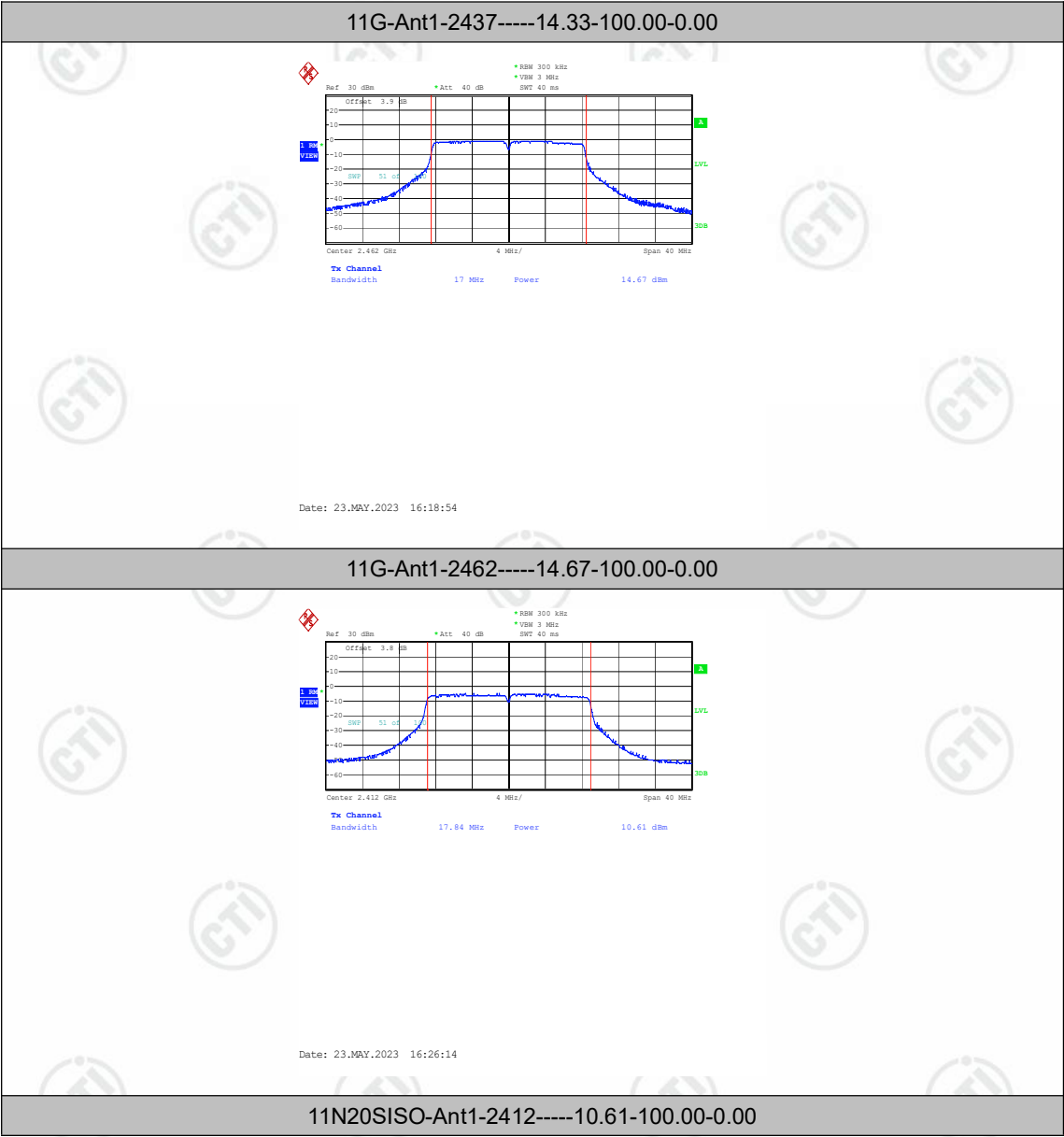


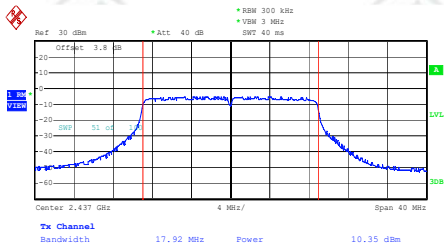
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11G-Ant1-2412-----14.67-100.00-0.00



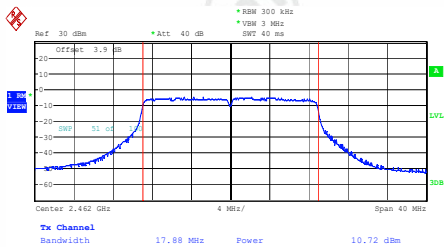
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Date: 23.MAY.2023 16:39:19

11N20SISO-Ant1-2437-----10.35-100.00-0.00



Date: 23.MAY.2023 16:44:15

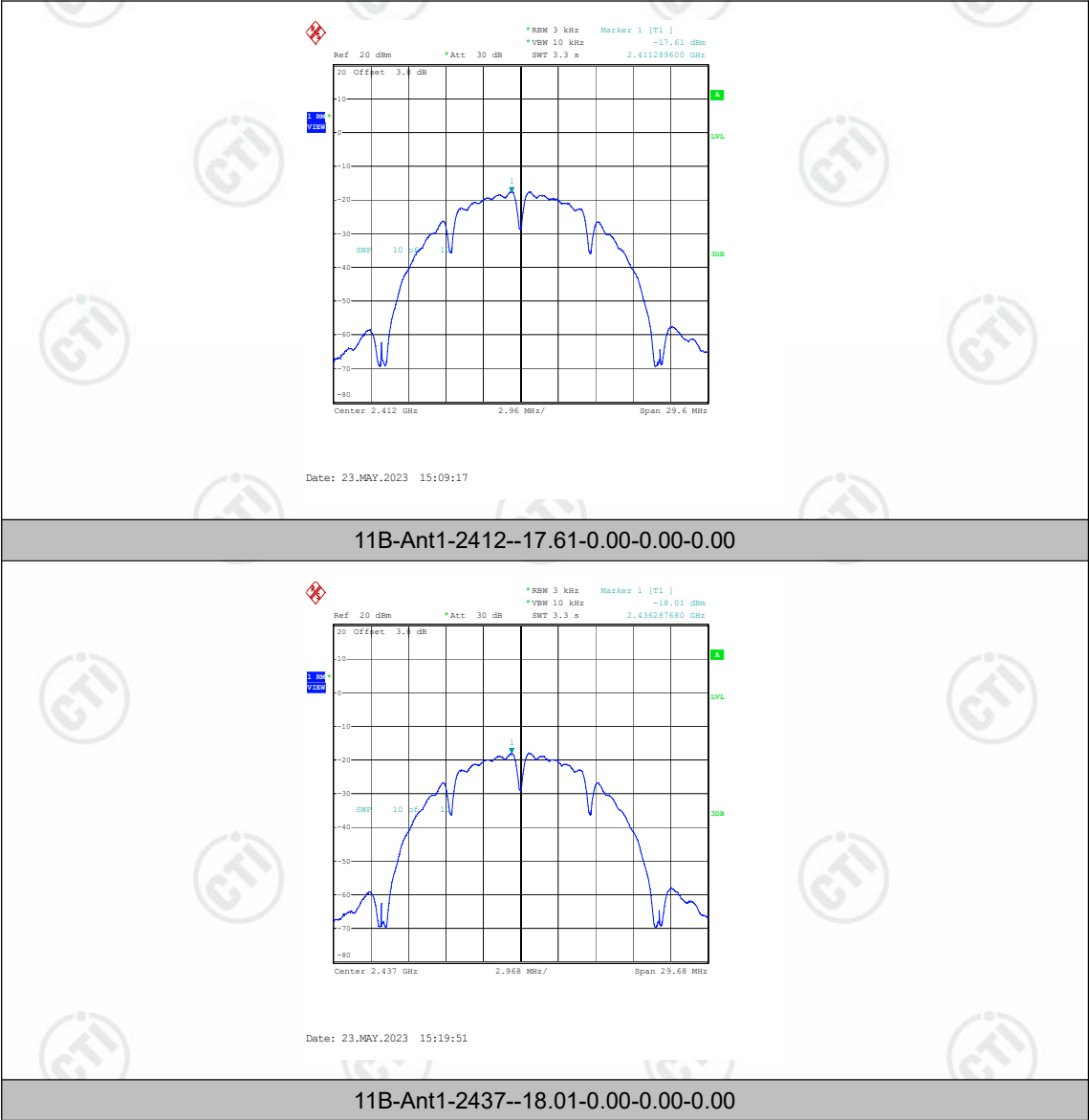
11N20SISO-Ant1-2462-----10.72-100.00-0.00

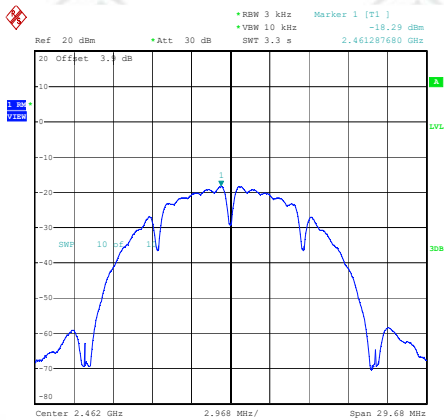
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-17.61	≤8.00	PASS
11B	Ant1	2437	-18.01	≤8.00	PASS
11B	Ant1	2462	-18.29	≤8.00	PASS
11G	Ant1	2412	-20.24	≤8.00	PASS
11G	Ant1	2437	-20.46	≤8.00	PASS
11G	Ant1	2462	-20.22	≤8.00	PASS
11N20SISO	Ant1	2412	-24.15	≤8.00	PASS
11N20SISO	Ant1	2437	-24.65	≤8.00	PASS
11N20SISO	Ant1	2462	-24	≤8.00	PASS

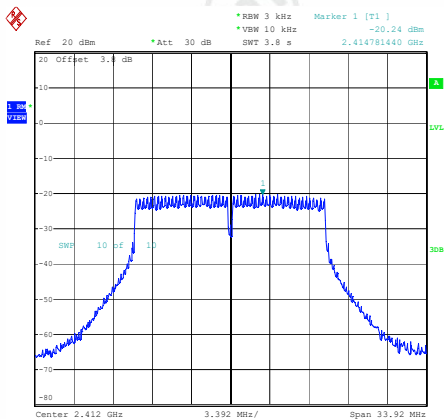
Test Graphs





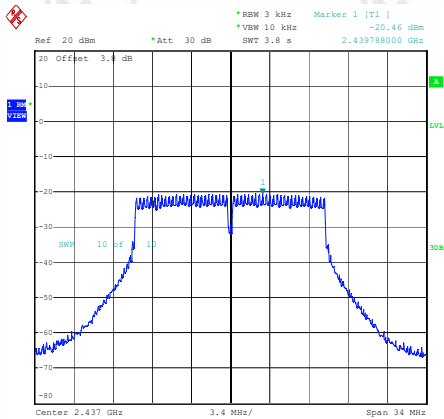
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11B-Ant1-2462--18.29-0.00-0.00-0.00

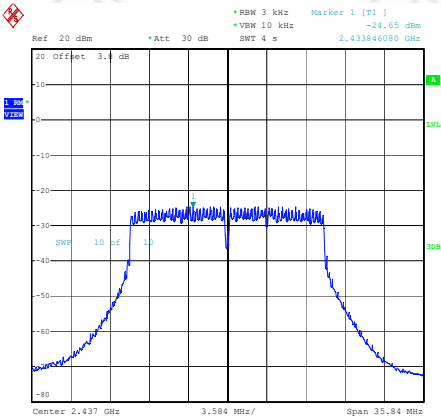


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11G-Ant1-2412--20.24-0.00-0.00-0.00

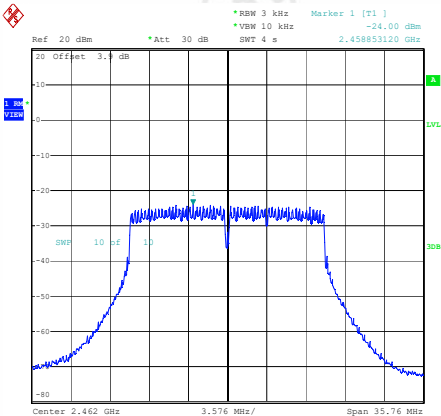


Date: 23.MAY.2023 16:07:23



Date: 23.MAY.2023 16:40:18

11N20SISO-Ant1-2437--24.65-0.00-0.00-0.00



Date: 23.MAY.2023 16:45:14

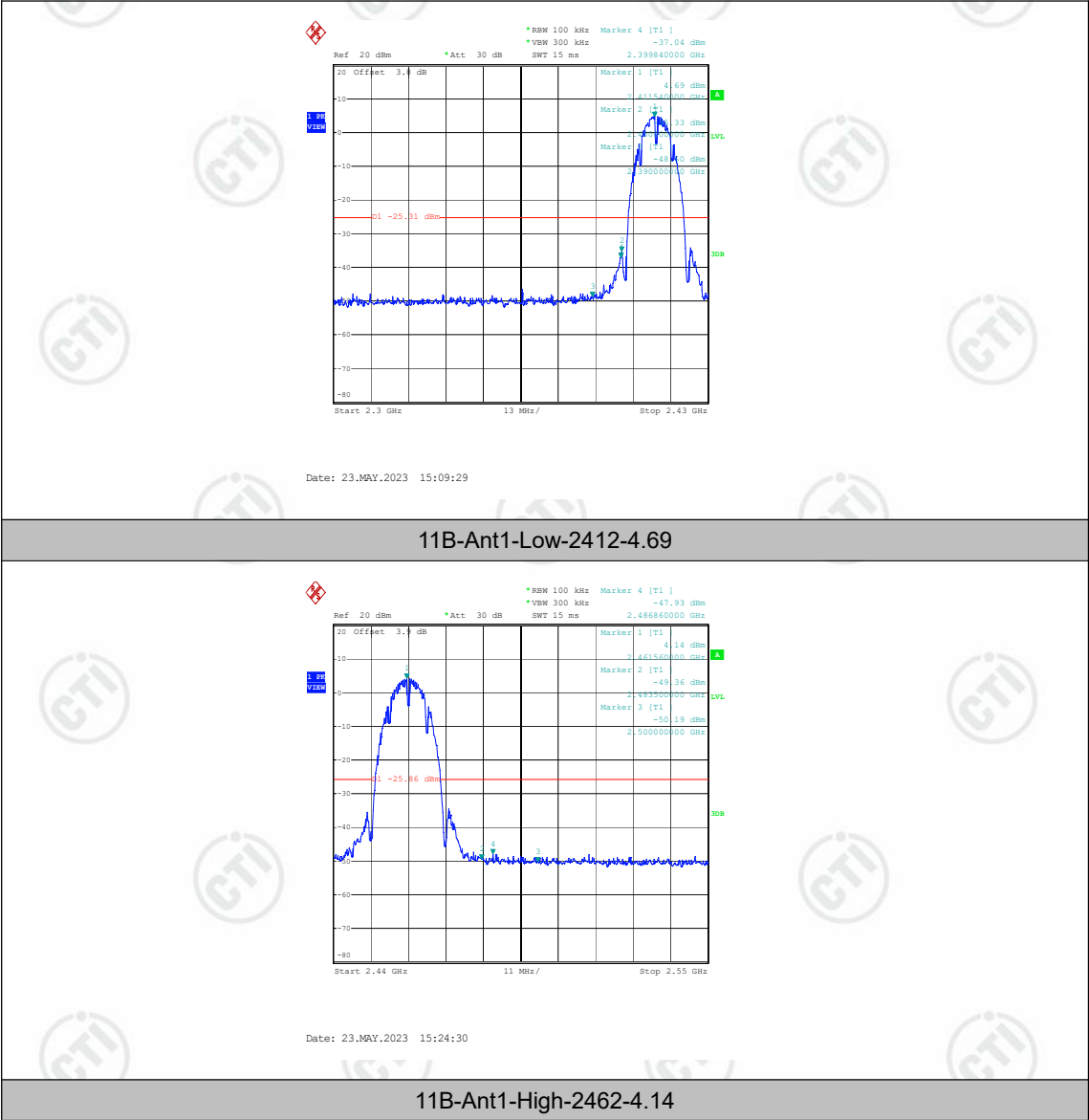
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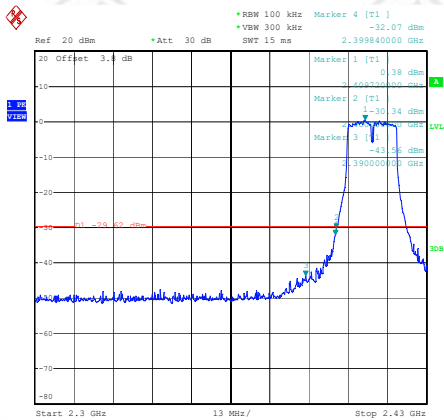
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	4.69	-37.04	≤-25.31	PASS
11B	Ant1	High	2462	4.14	-47.93	≤-25.86	PASS
11G	Ant1	Low	2412	0.38	-32.07	≤-29.62	PASS
11G	Ant1	High	2462	0.27	-43.71	≤-29.73	PASS
11N20SISO	Ant1	Low	2412	-2.77	-37.88	≤-32.77	PASS
11N20SISO	Ant1	High	2462	-2.46	-47.32	≤-32.46	PASS

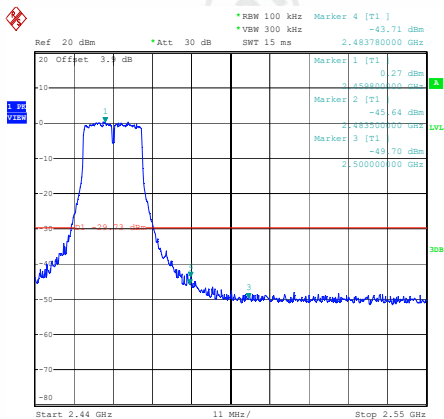
Test Graphs





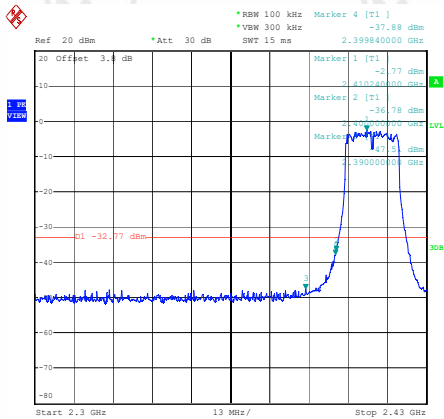
Date: 23.MAY.2023 15:54:23

11G-Ant1-Low-2412-0.38

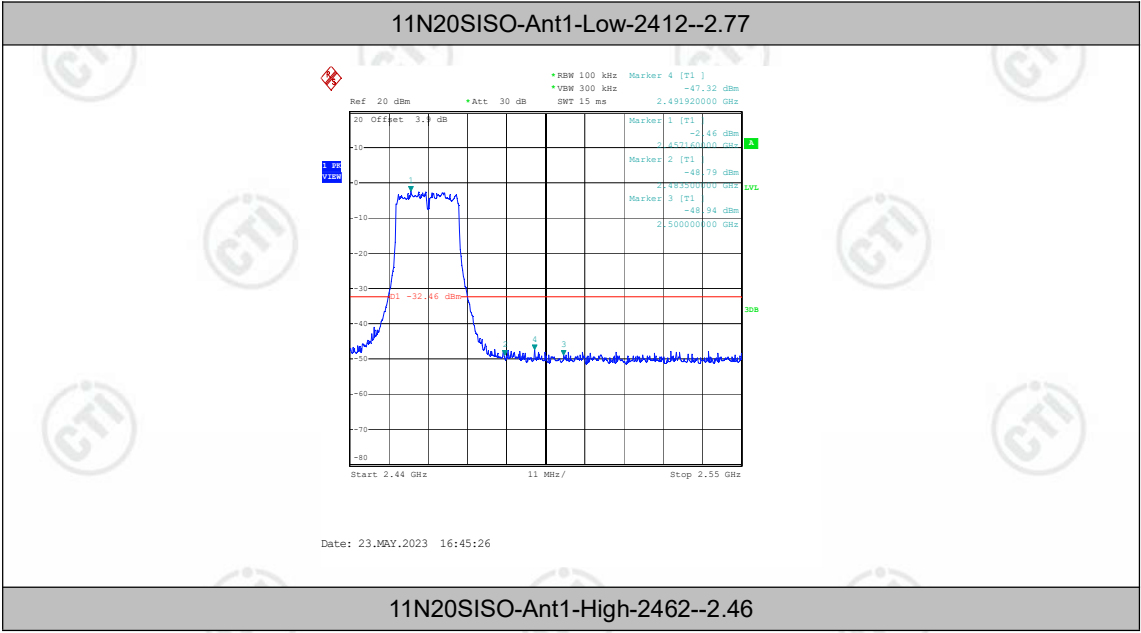


Date: 23.MAY.2023 16:20:03

11G-Ant1-High-2462-0.27

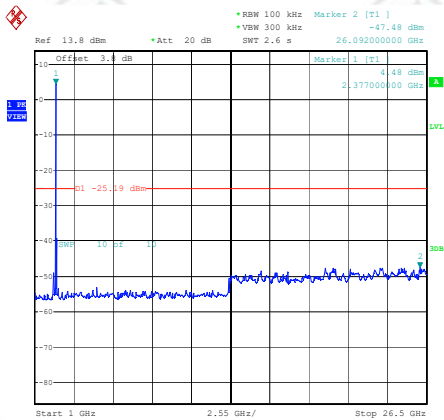


Date: 23.MAY.2023 16:27:25



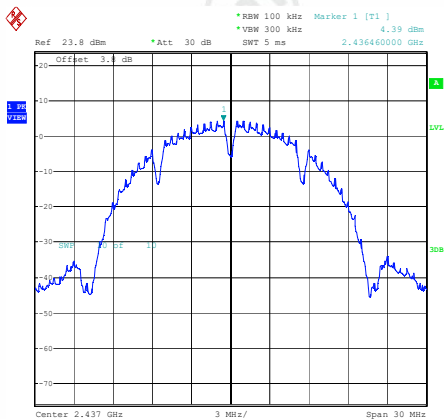
Appendix F: Conducted Spurious Emission**Test Result**

Test Mode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.81	4.81	---	PASS
11B	Ant1	2412	30~1000	4.81	-35.08	≤ -25.19	PASS
11B	Ant1	2412	1000~26500	4.81	-47.48	≤ -25.19	PASS
11B	Ant1	2437	0~Reference	4.39	4.39	---	PASS
11B	Ant1	2437	30~1000	4.39	-36.4	≤ -25.61	PASS
11B	Ant1	2437	1000~26500	4.39	-47.32	≤ -25.61	PASS
11B	Ant1	2462	0~Reference	4.12	4.12	---	PASS
11B	Ant1	2462	30~1000	4.12	-36.16	≤ -25.88	PASS
11B	Ant1	2462	1000~26500	4.12	-47.23	≤ -25.88	PASS
11G	Ant1	2412	0~Reference	0.51	0.51	---	PASS
11G	Ant1	2412	30~1000	0.51	-42.92	≤ -29.49	PASS
11G	Ant1	2412	1000~26500	0.51	-46.56	≤ -29.49	PASS
11G	Ant1	2437	0~Reference	0.16	0.16	---	PASS
11G	Ant1	2437	30~1000	0.16	-42.23	≤ -29.84	PASS
11G	Ant1	2437	1000~26500	0.16	-47.26	≤ -29.84	PASS
11G	Ant1	2462	0~Reference	0.42	0.42	---	PASS
11G	Ant1	2462	30~1000	0.42	-40.74	≤ -29.58	PASS
11G	Ant1	2462	1000~26500	0.42	-46.84	≤ -29.58	PASS
11N20SISO	Ant1	2412	0~Reference	-2.67	-2.67	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.67	-50.28	≤ -32.67	PASS
11N20SISO	Ant1	2412	1000~26500	-2.67	-46.85	≤ -32.67	PASS
11N20SISO	Ant1	2437	0~Reference	-2.83	-2.83	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.83	-52.15	≤ -32.83	PASS
11N20SISO	Ant1	2437	1000~26500	-2.83	-47.03	≤ -32.83	PASS
11N20SISO	Ant1	2462	0~Reference	-2.47	-2.47	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.47	-49.99	≤ -32.47	PASS
11N20SISO	Ant1	2462	1000~26500	-2.47	-47.14	≤ -32.47	PASS



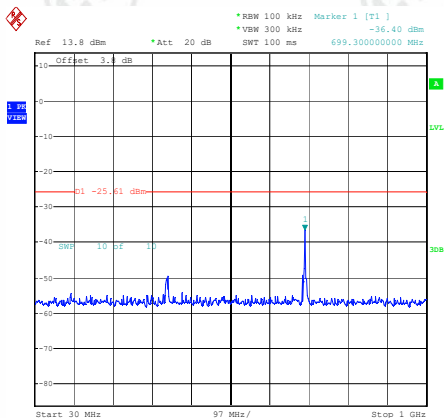
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11B-Ant1-2412-1000~26500-4.81

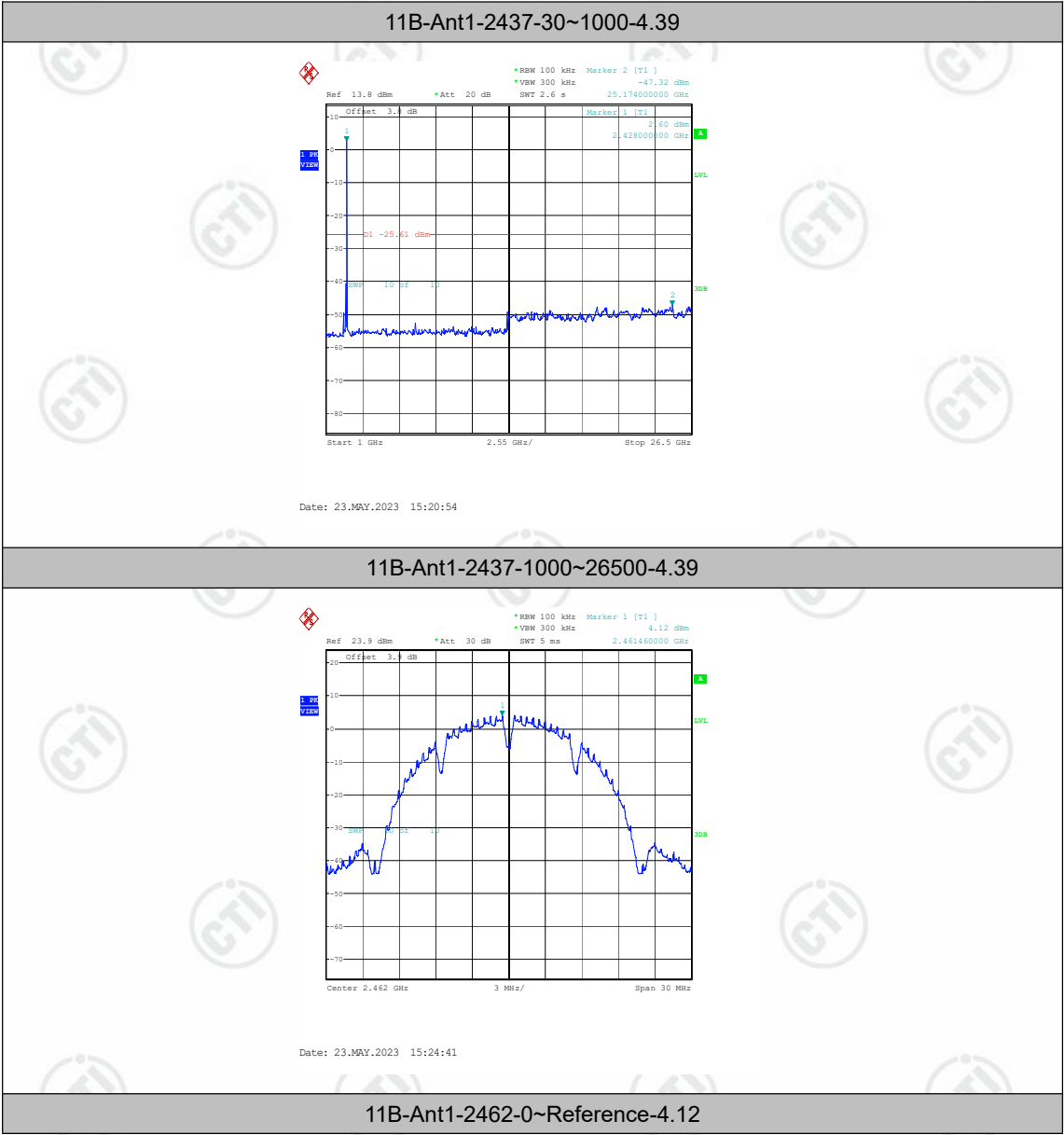


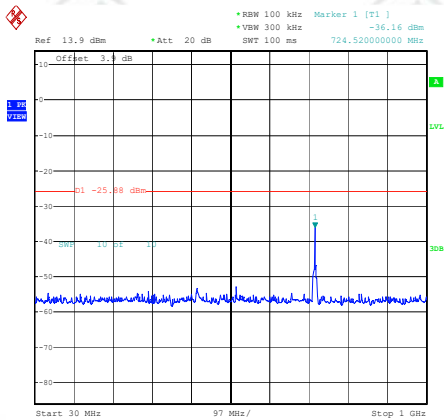
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11B-Ant1-2437-0~Reference-4.39



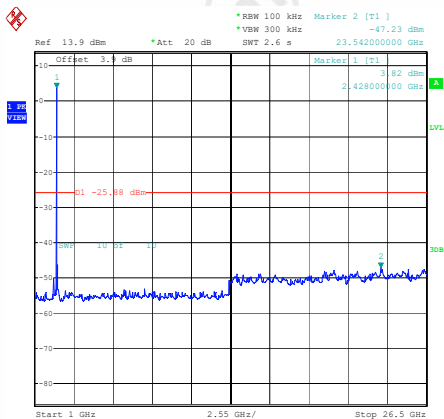
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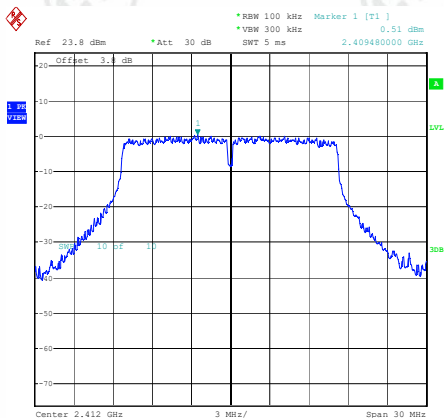
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11B-Ant1-2462-30~1000-4.12

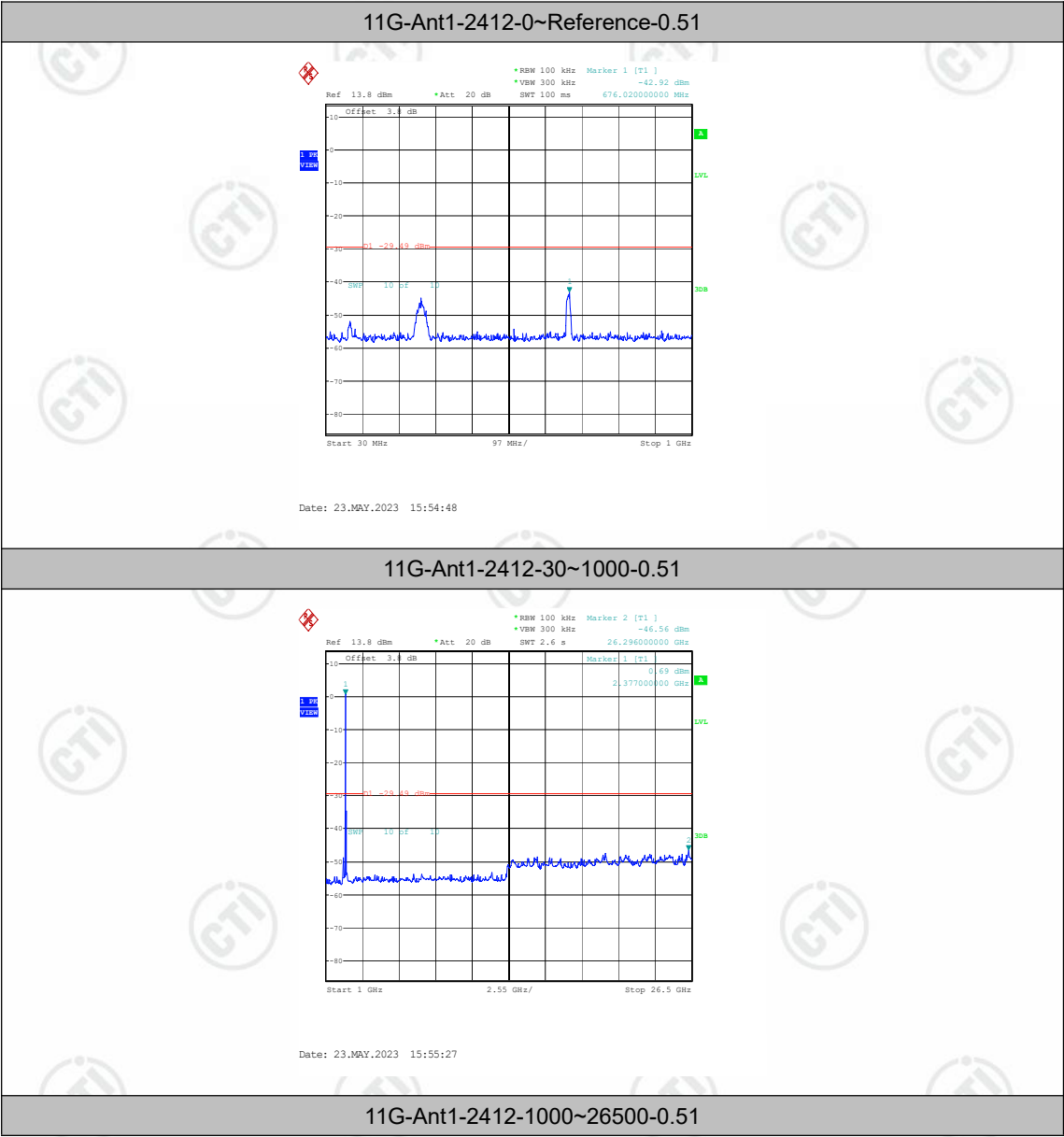


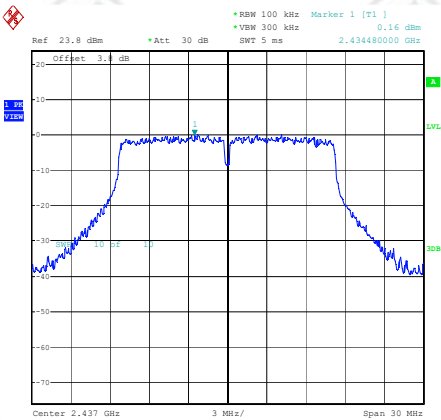
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11B-Ant1-2462-1000~26500-4.12



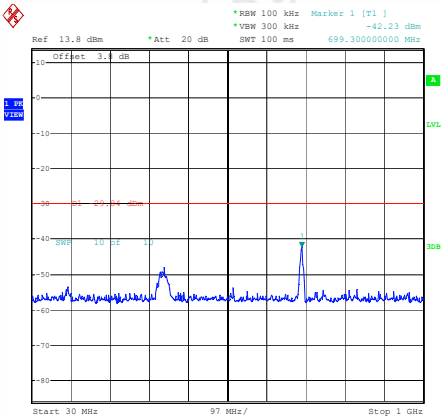
Date: 23.MAY.2023 15:54:35





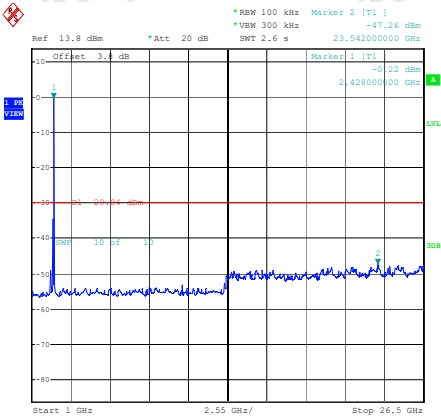
Date: 23.MAY.2023 16:07:35

11G-Ant1-2437-0~Reference-0.16

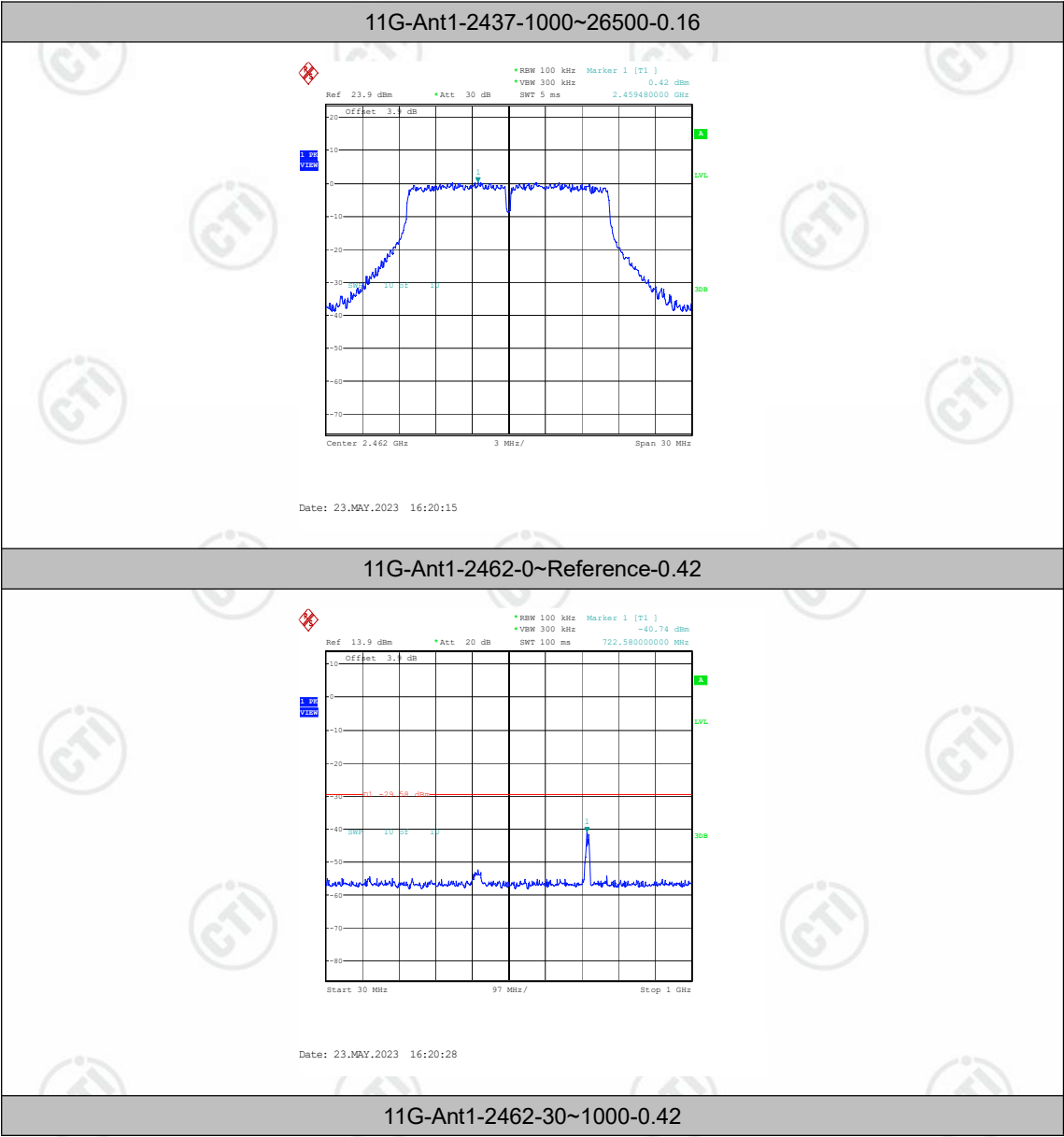


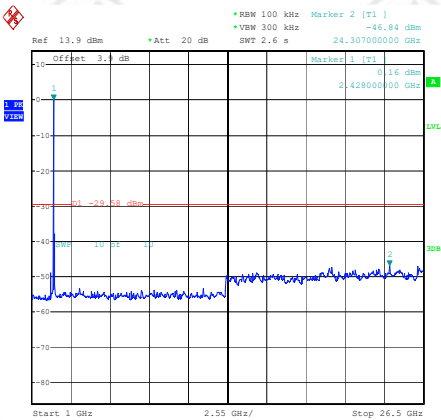
Date: 23.MAY.2023 16:07:47

11G-Ant1-2437-30~1000-0.16



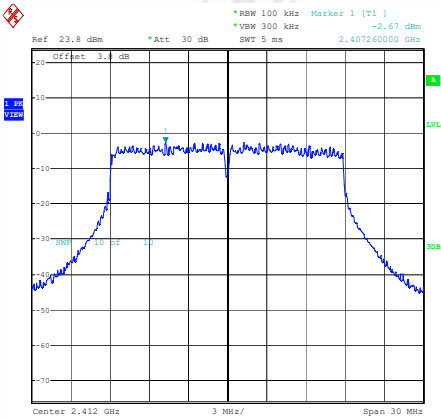
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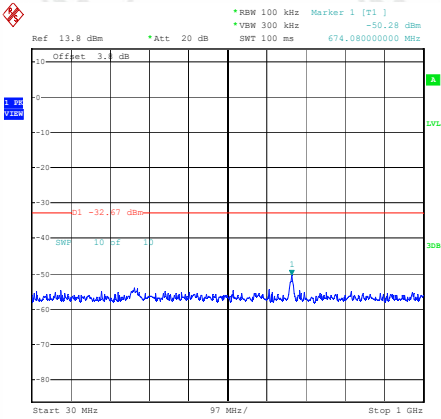
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11G-Ant1-2462-1000~26500-0.42

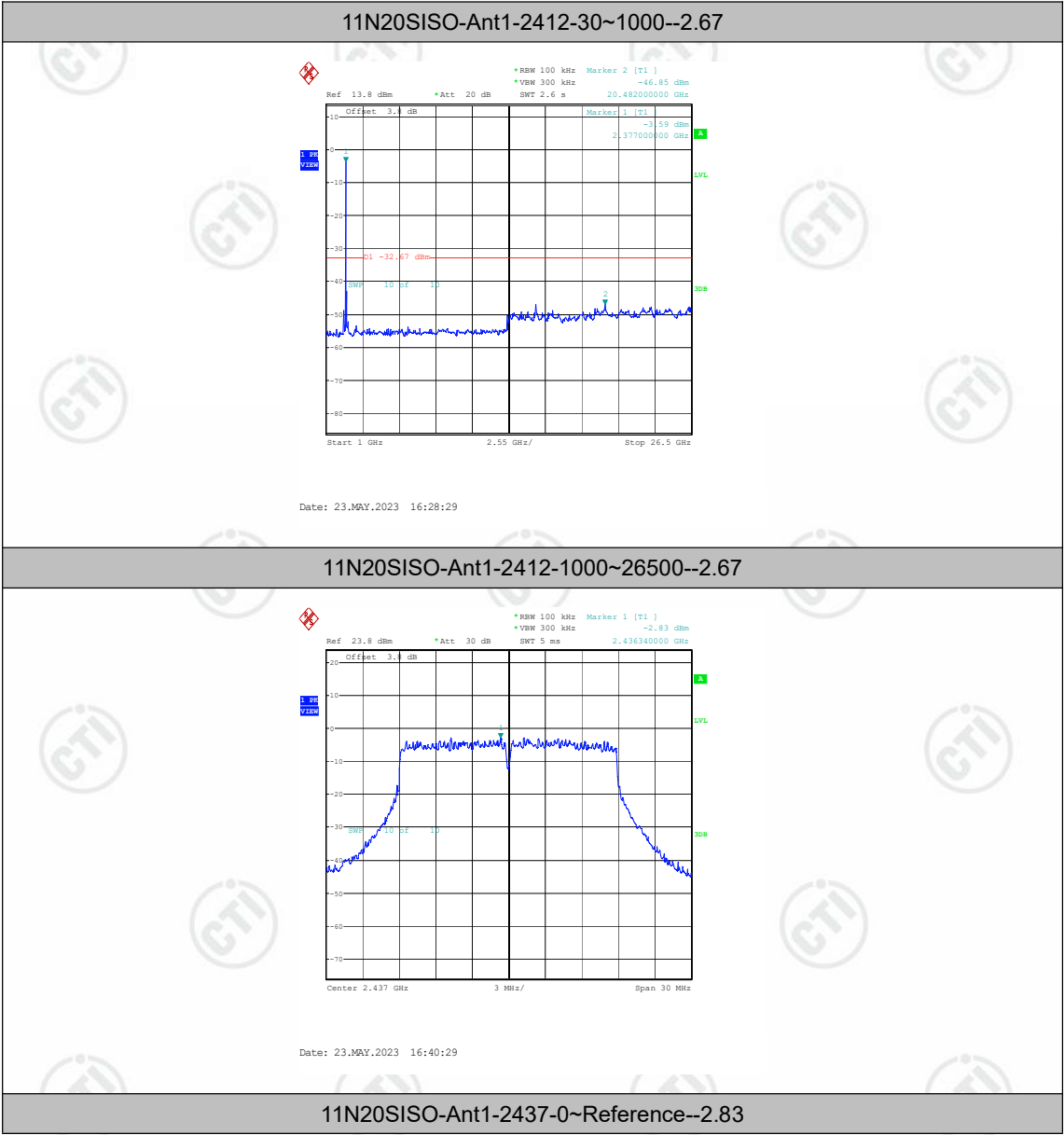


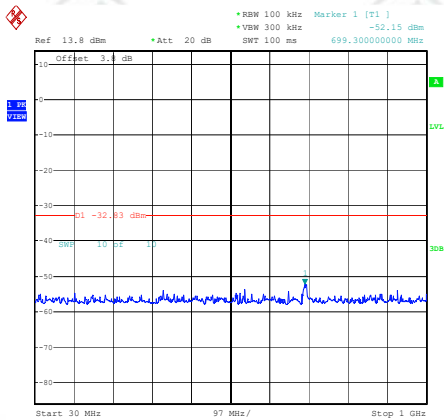
Date: 23.MAY.2023 16:27:37

11N20SISO-Ant1-2412-0~Reference--2.67



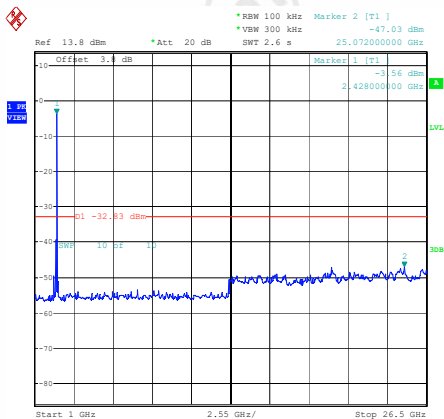
Date: 23.MAY.2023 16:27:50





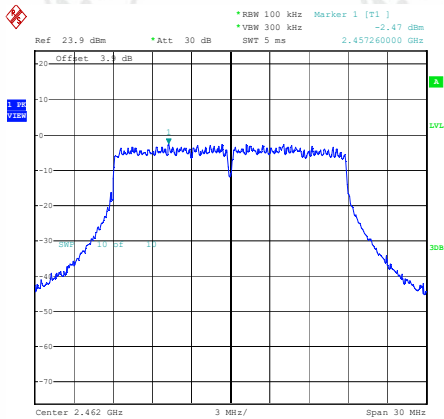
Date: 23.MAY.2023 16:40:42

11N20SISO-Ant1-2437-30~1000--2.83



Date: 23.MAY.2023 16:41:21

11N20SISO-Ant1-2437-1000~26500--2.83



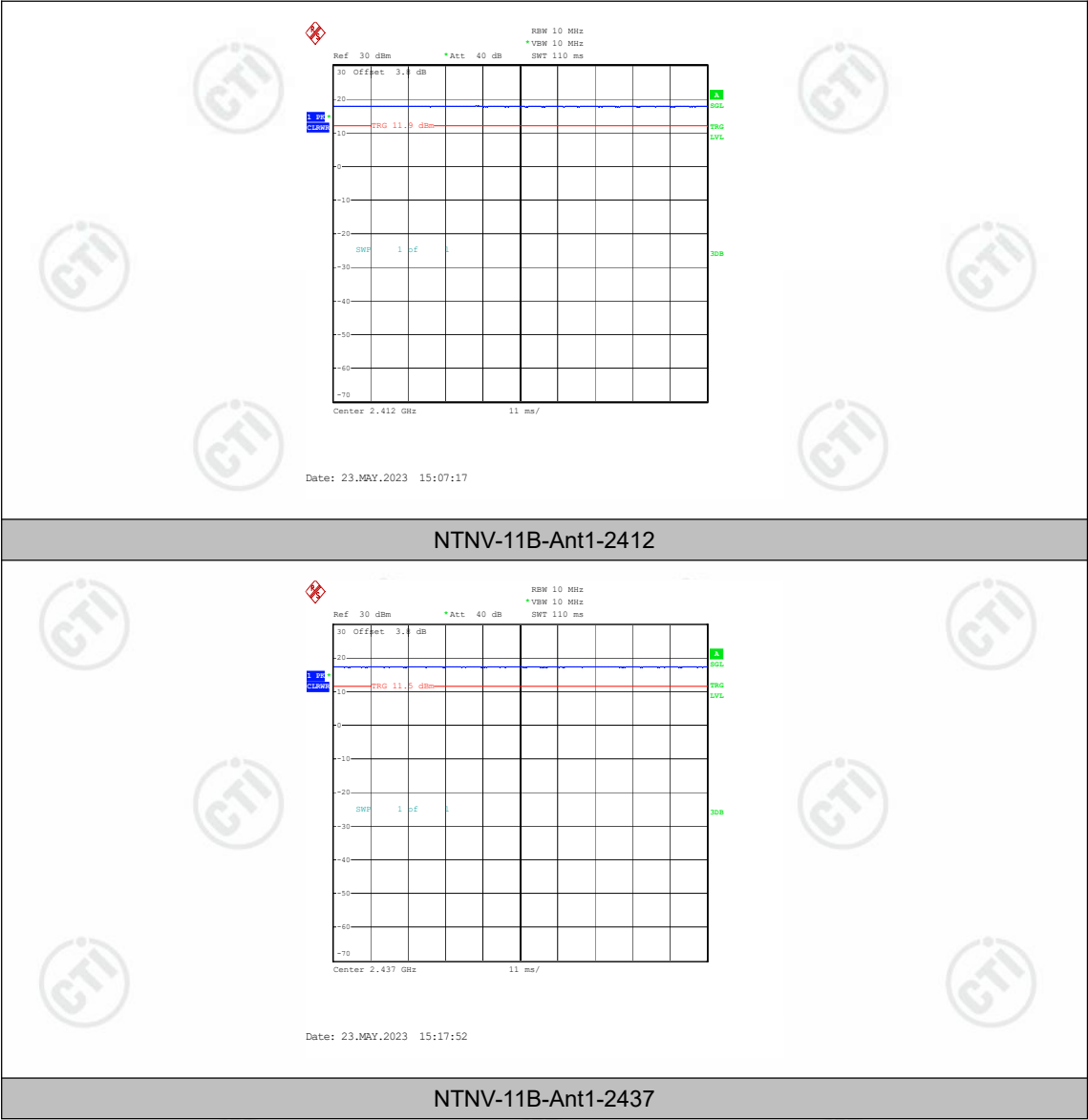
Date: 23.MAY.2023 16:45:38

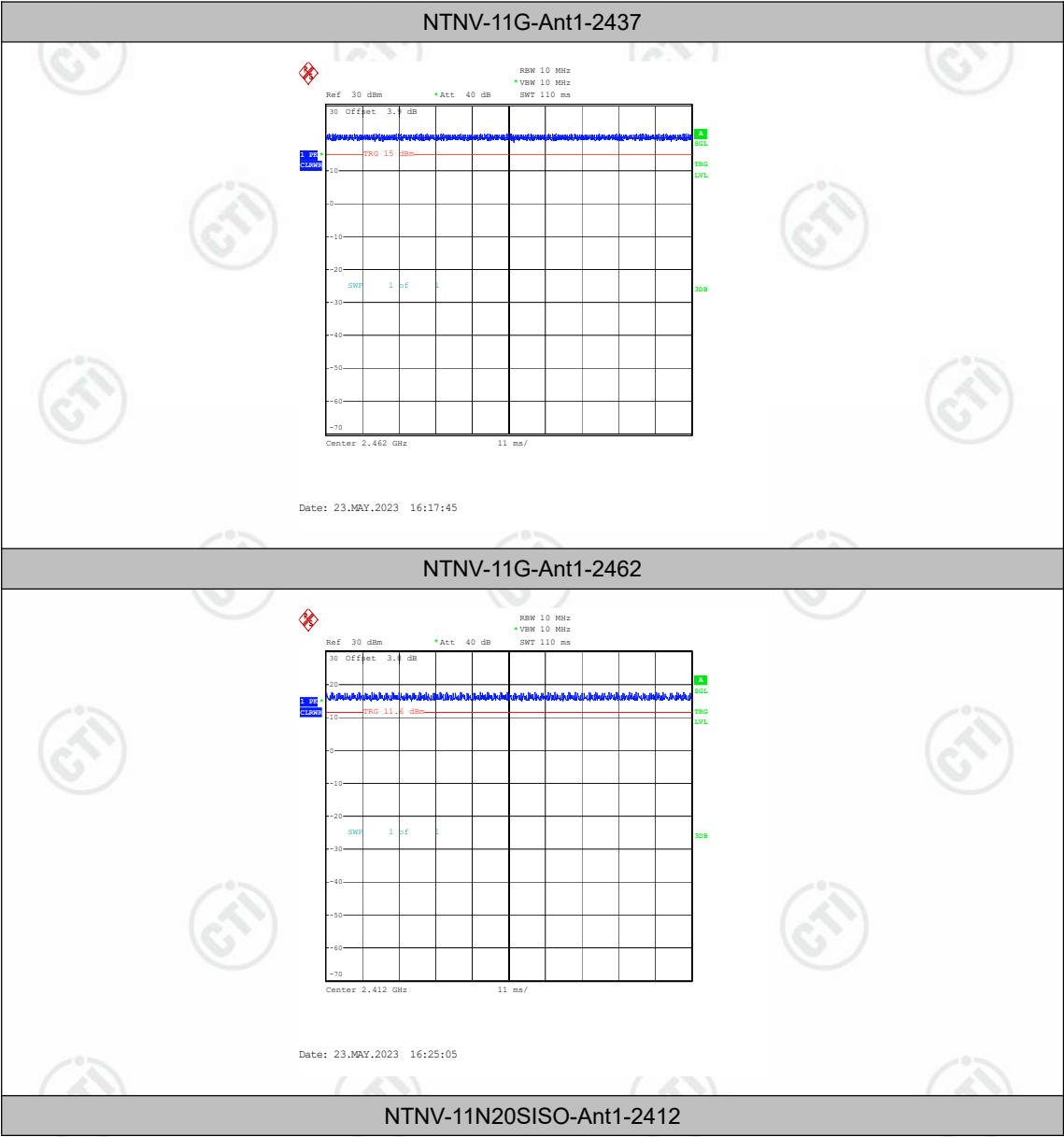
Appendix G: Duty Cycle

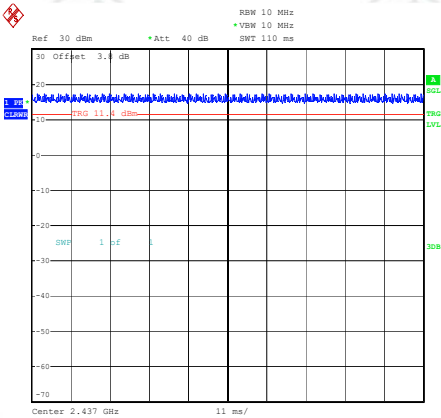
Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	110.00	110.00	100.00	0.00
11B	Ant1	2437	110.00	110.00	100.00	0.00
11B	Ant1	2462	110.00	110.00	100.00	0.00
11G	Ant1	2412	110.00	110.00	100.00	0.00
11G	Ant1	2437	110.00	110.00	100.00	0.00
11G	Ant1	2462	110.00	110.00	100.00	0.00
11N20SISO	Ant1	2412	110.00	110.00	100.00	0.00
11N20SISO	Ant1	2437	110.00	110.00	100.00	0.00
11N20SISO	Ant1	2462	110.00	110.00	100.00	0.00

Test Graphs

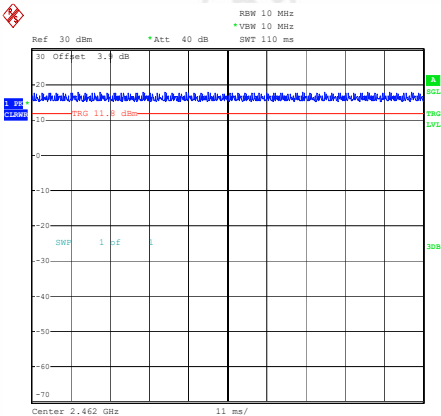






Date: 23.MAY.2023 16:38:09

NTNV-11N20SISO-Ant1-2437



Date: 23.MAY.2023 16:43:06

NTNV-11N20SISO-Ant1-2462

*** End of Report ***