

Test Result

ANT 1:

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-26.82	≤8	PASS
		2437	-25.26	≤8	PASS
		2462	-26.43	≤8	PASS
11G	Ant1	2412	-23.07	≤8	PASS
		2437	-21.82	≤8	PASS
		2462	-22.52	≤8	PASS
11N20SISO	Ant1	2412	-26.34	≤8	PASS
		2437	-25.13	≤8	PASS
		2462	-25.82	≤8	PASS
11N40SISO	Ant1	2422	-25.52	≤8	PASS
		2437	-24.65	≤8	PASS
		2452	-24.93	≤8	PASS

ANT 2:

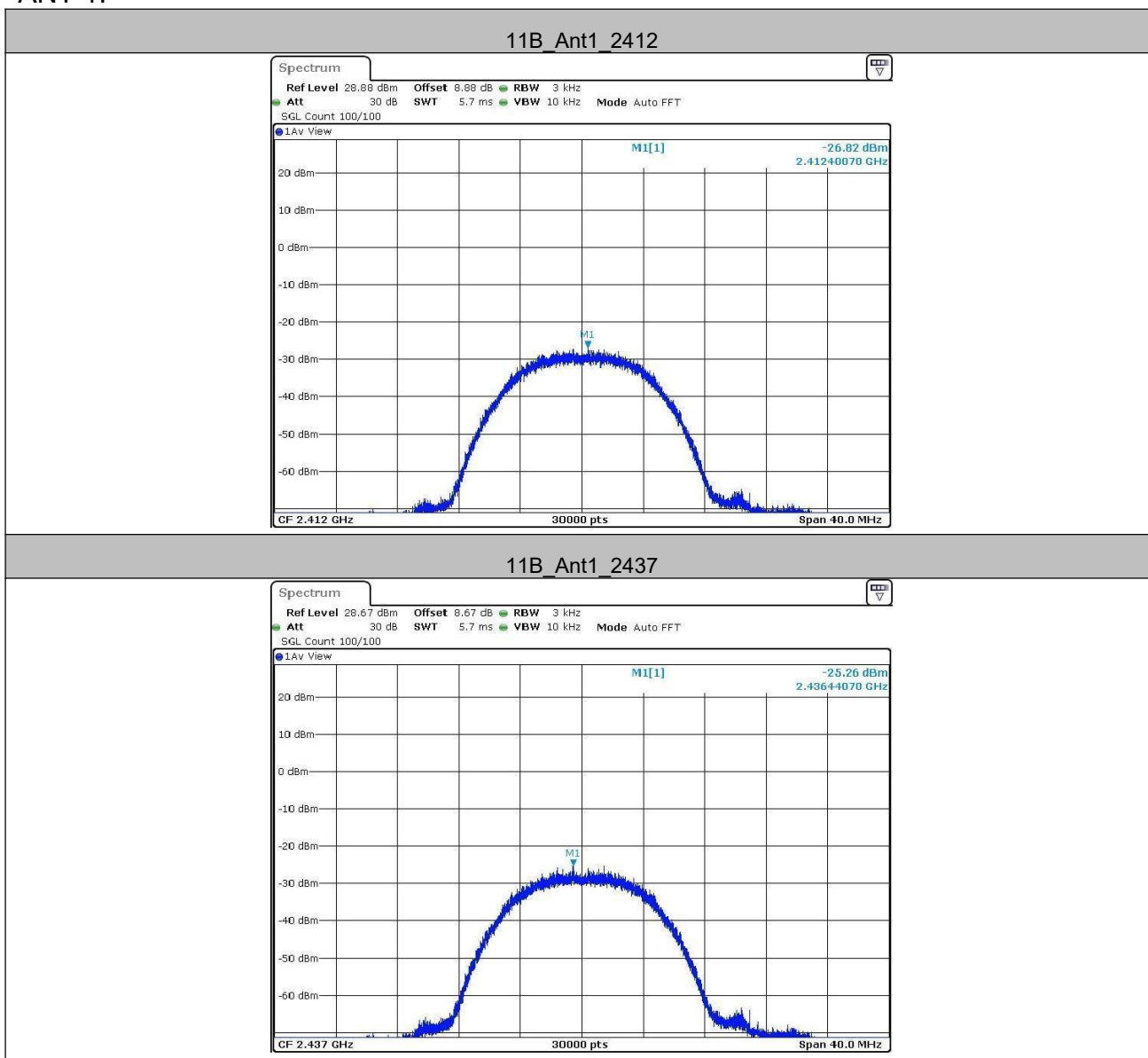
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant2	2412	-25.1	≤8	PASS
		2437	-23.42	≤8	PASS
		2462	-23.5	≤8	PASS
11G	Ant2	2412	-20.19	≤8	PASS
		2437	-18.56	≤8	PASS
		2462	-19.06	≤8	PASS
11N20SISO	Ant2	2412	-23.47	≤8	PASS
		2437	-22.18	≤8	PASS
		2462	-22.8	≤8	PASS
11N40SISO	Ant2	2422	-22.56	≤8	PASS
		2437	-21.75	≤8	PASS
		2452	-22.46	≤8	PASS

ANT1+ANT2:

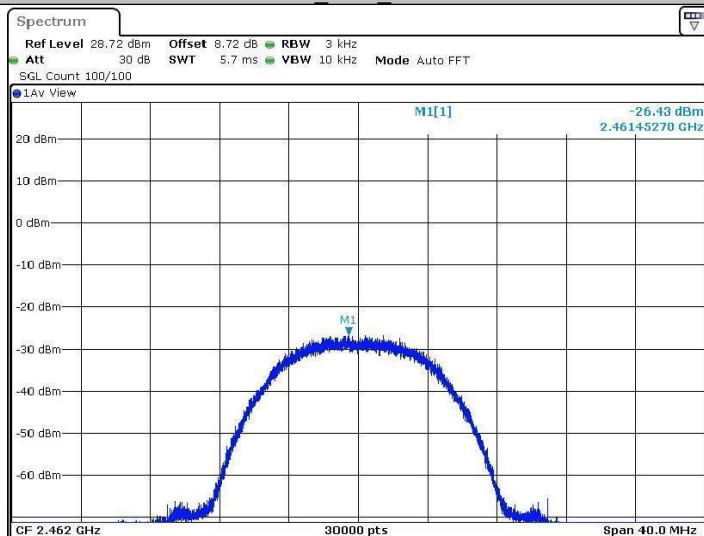
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11N20SISO	Ant1+Ant2	2412	-21.66	≤5.99	PASS
		2437	-20.40	≤5.99	PASS
		2462	-21.04	≤5.99	PASS
11N40SISO	Ant1+Ant2	2422	-20.78	≤5.99	PASS
		2437	-19.95	≤5.99	PASS
		2452	-20.51	≤5.99	PASS

Test Graphs

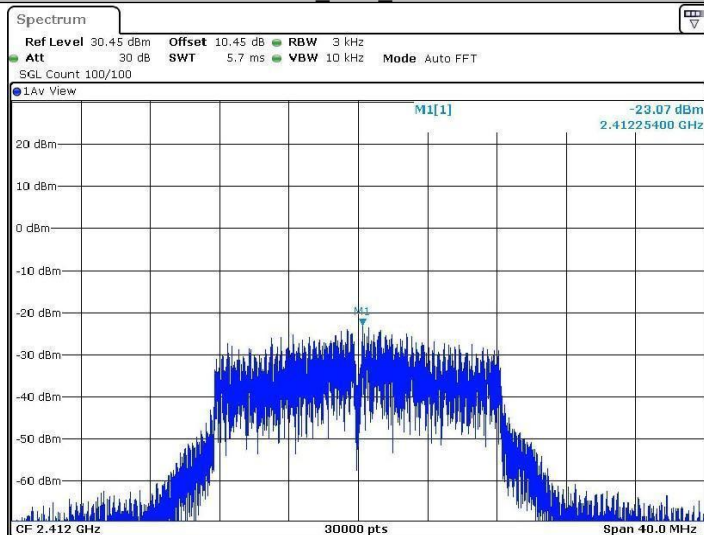
ANT 1:



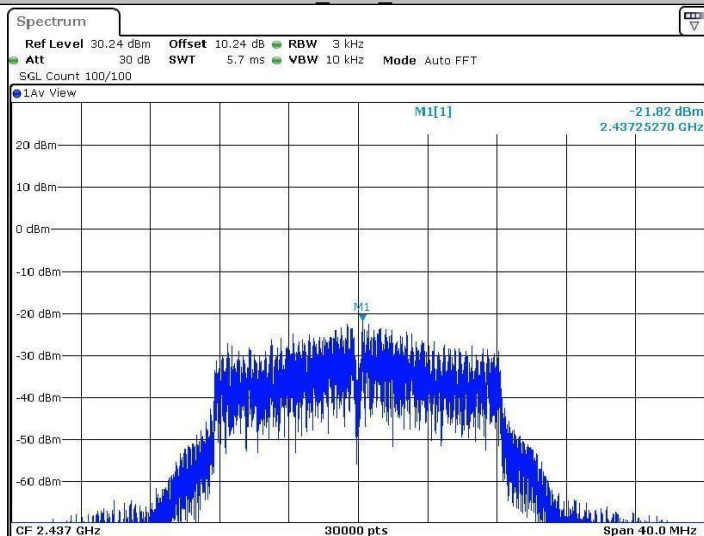
11B_Ant1_2462



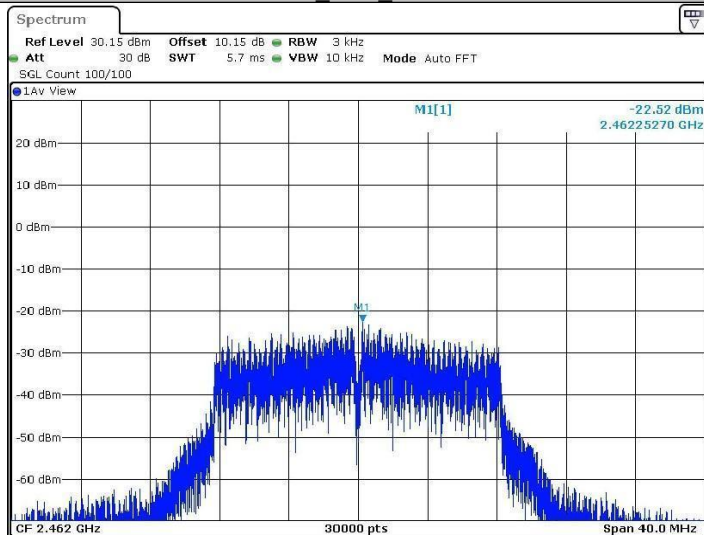
11G_Ant1_2412



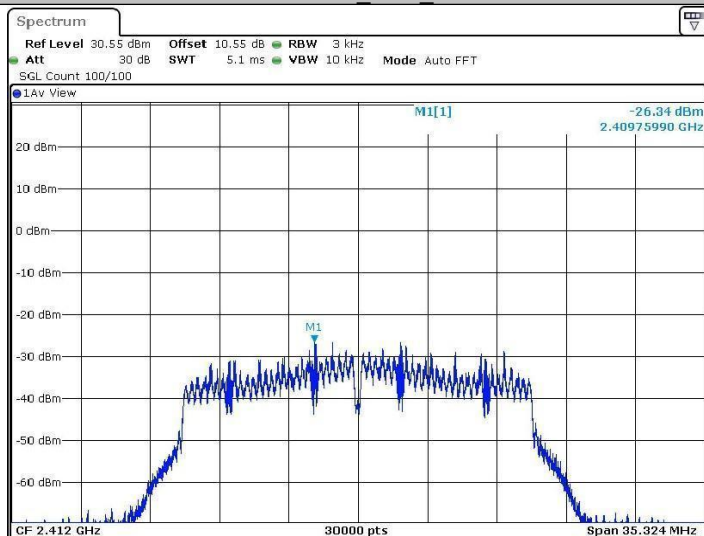
11G_Ant1_2437



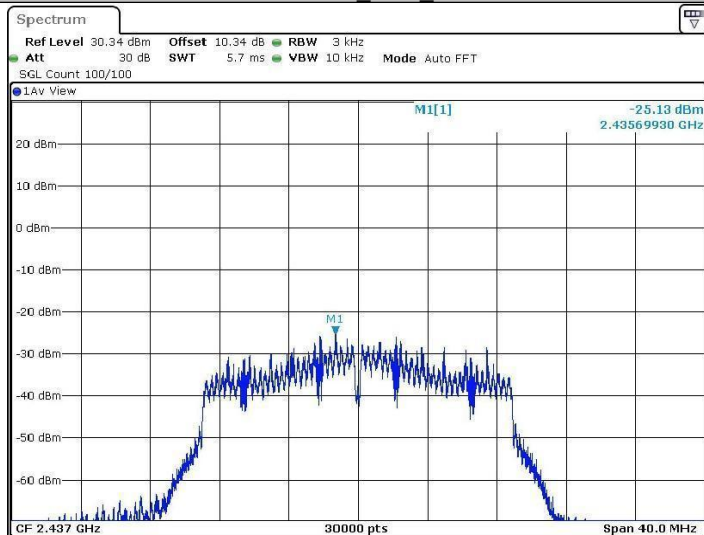
11G_Ant1_2462



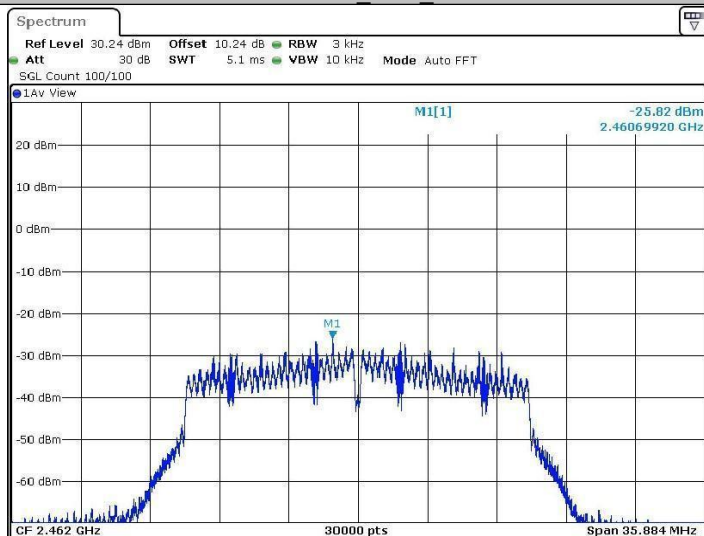
11N20SISO_Ant1_2412



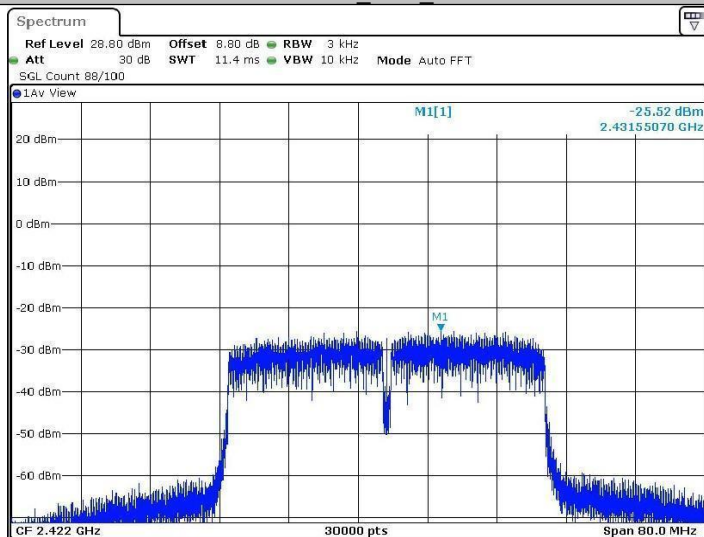
11N20SISO_Ant1_2437



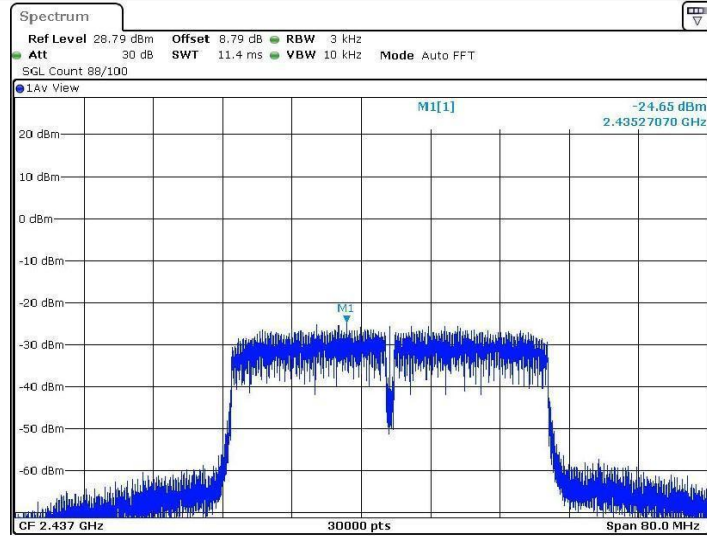
11N20SISO_Ant1_2462



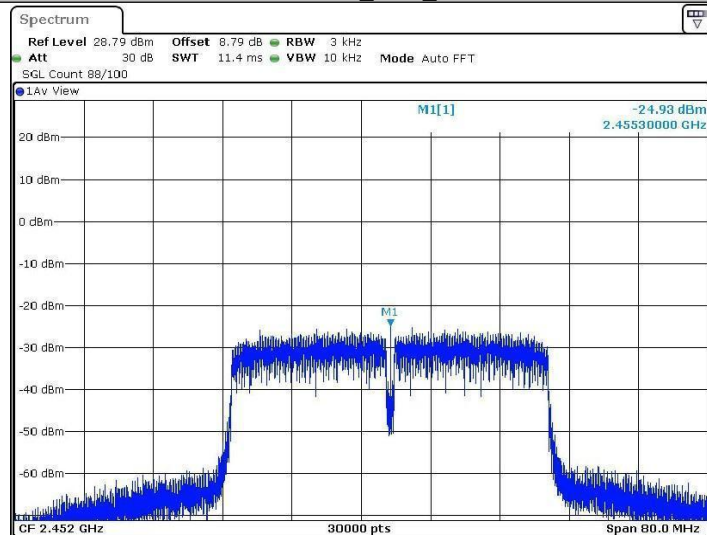
11N40SISO_Ant1_2422



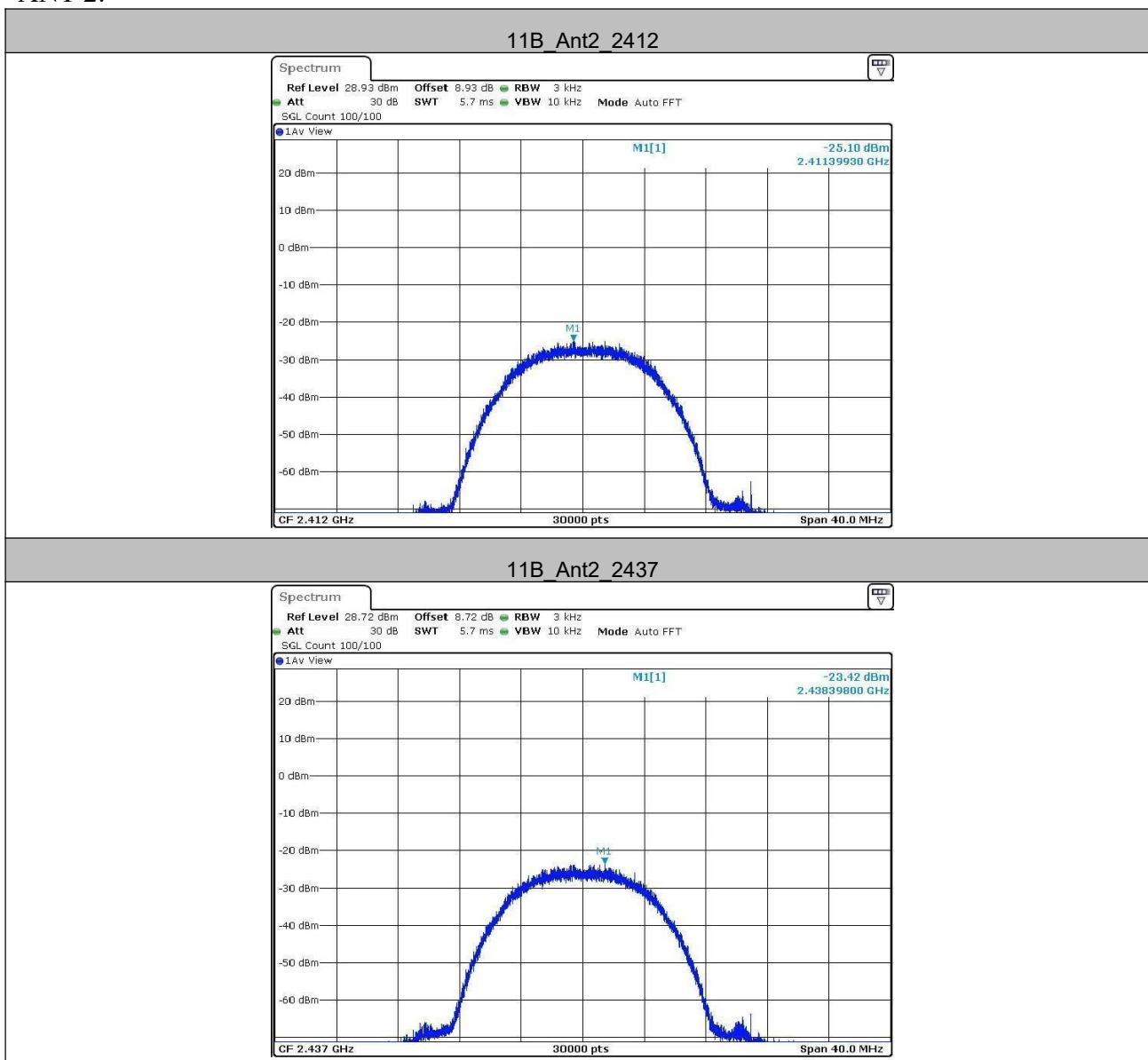
11N40SISO_Ant1_2437



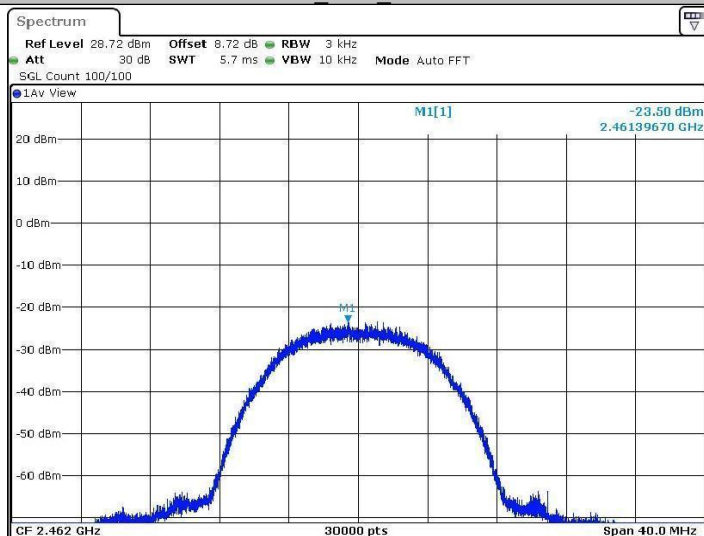
11N40SISO_Ant1_2452



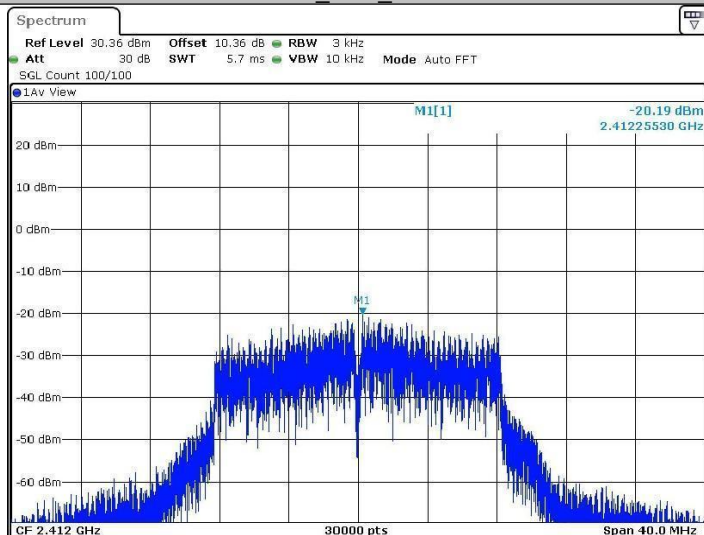
ANT 2:



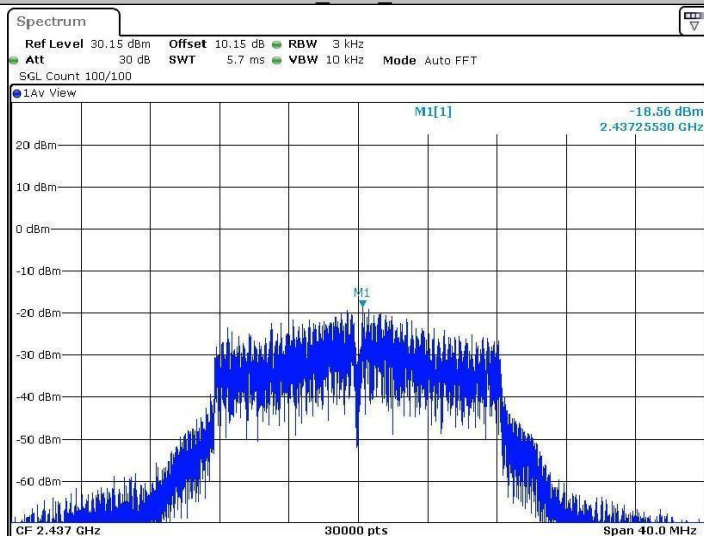
11B_Ant2_2462



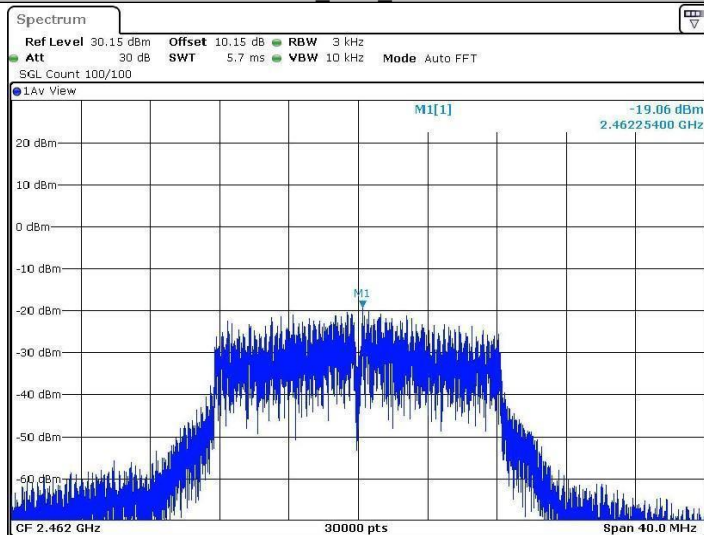
11G_Ant2_2412



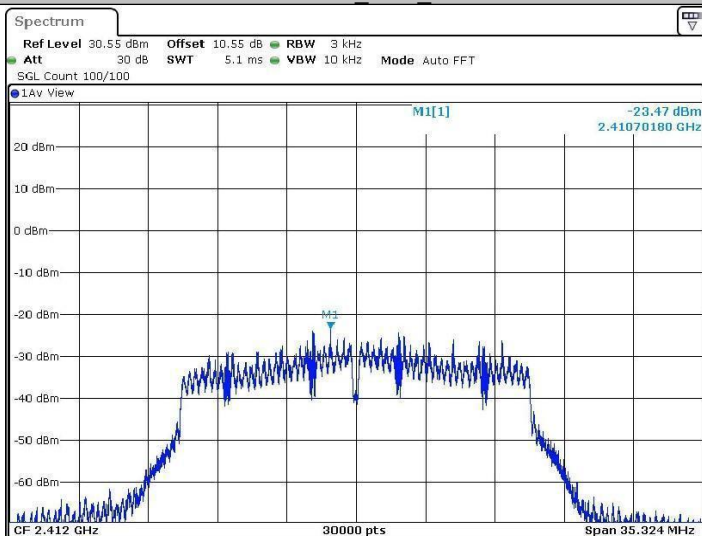
11G_Ant2_2437



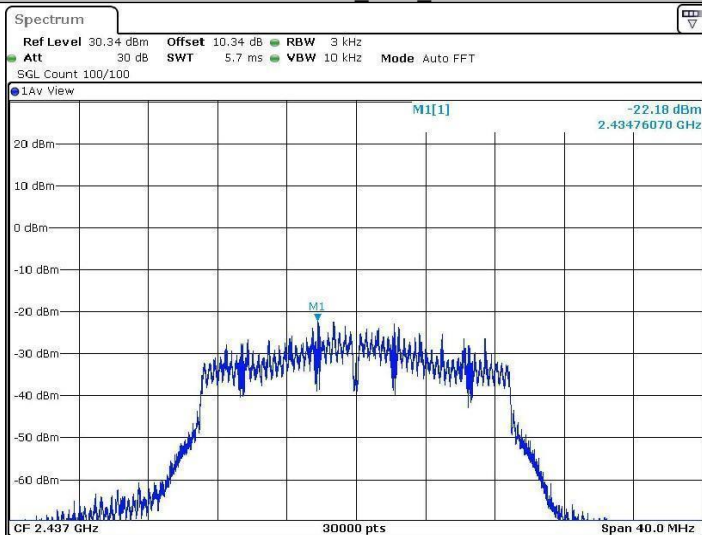
11G_Ant2_2462



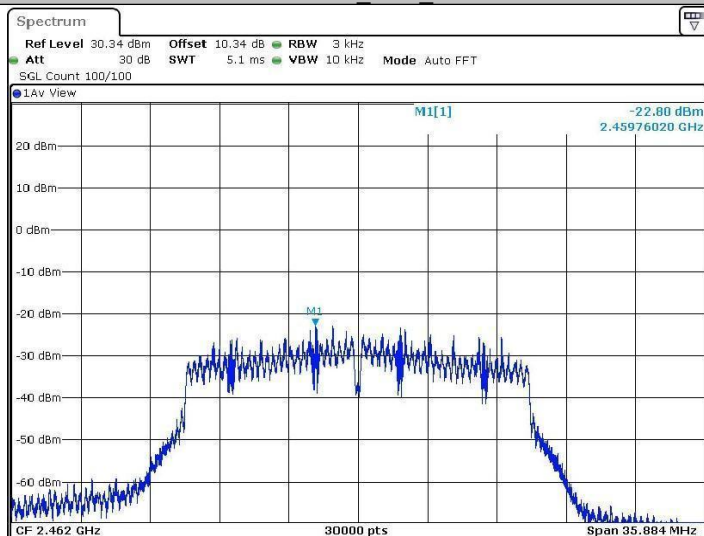
11N20SISO_Ant2_2412



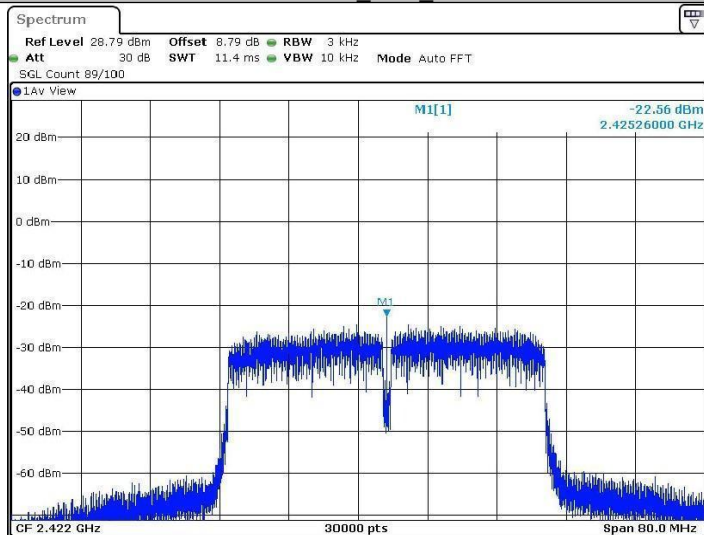
11N20SISO_Ant2_2437



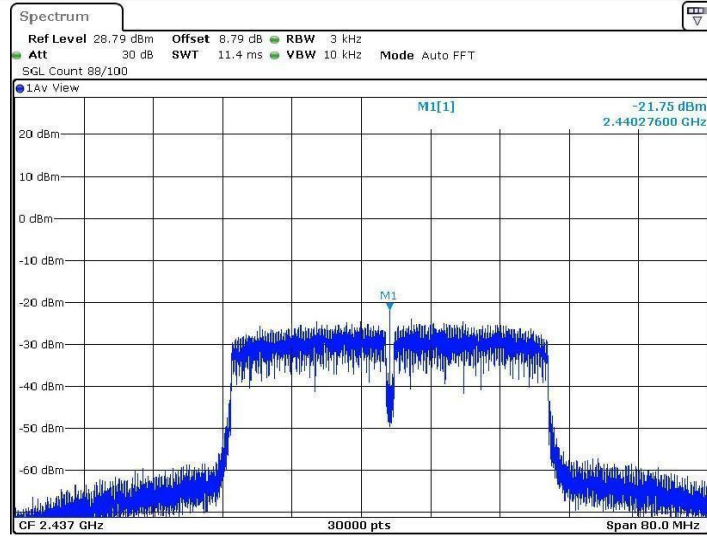
11N20SISO_Ant2_2462



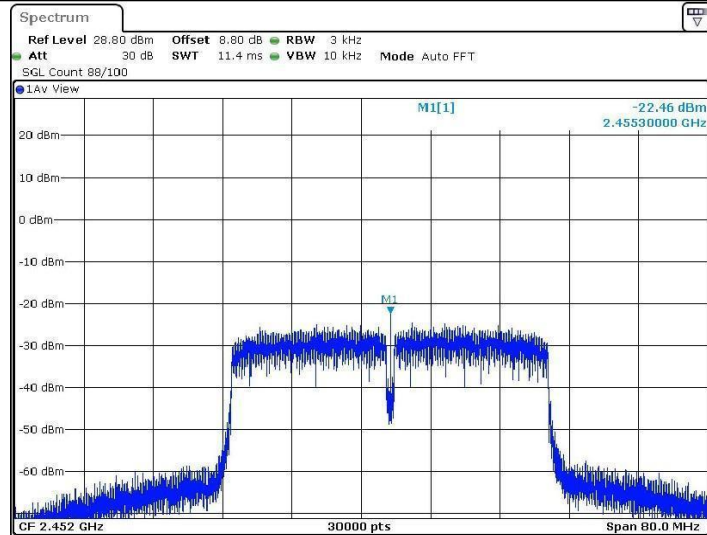
11N40SISO_Ant2_2422



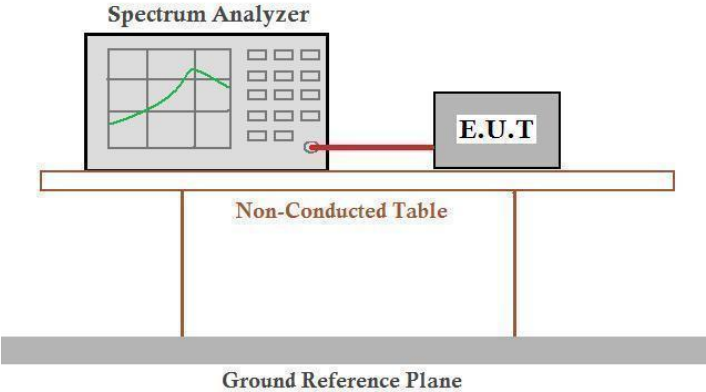
11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



5.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

Test Result

ANT 1:

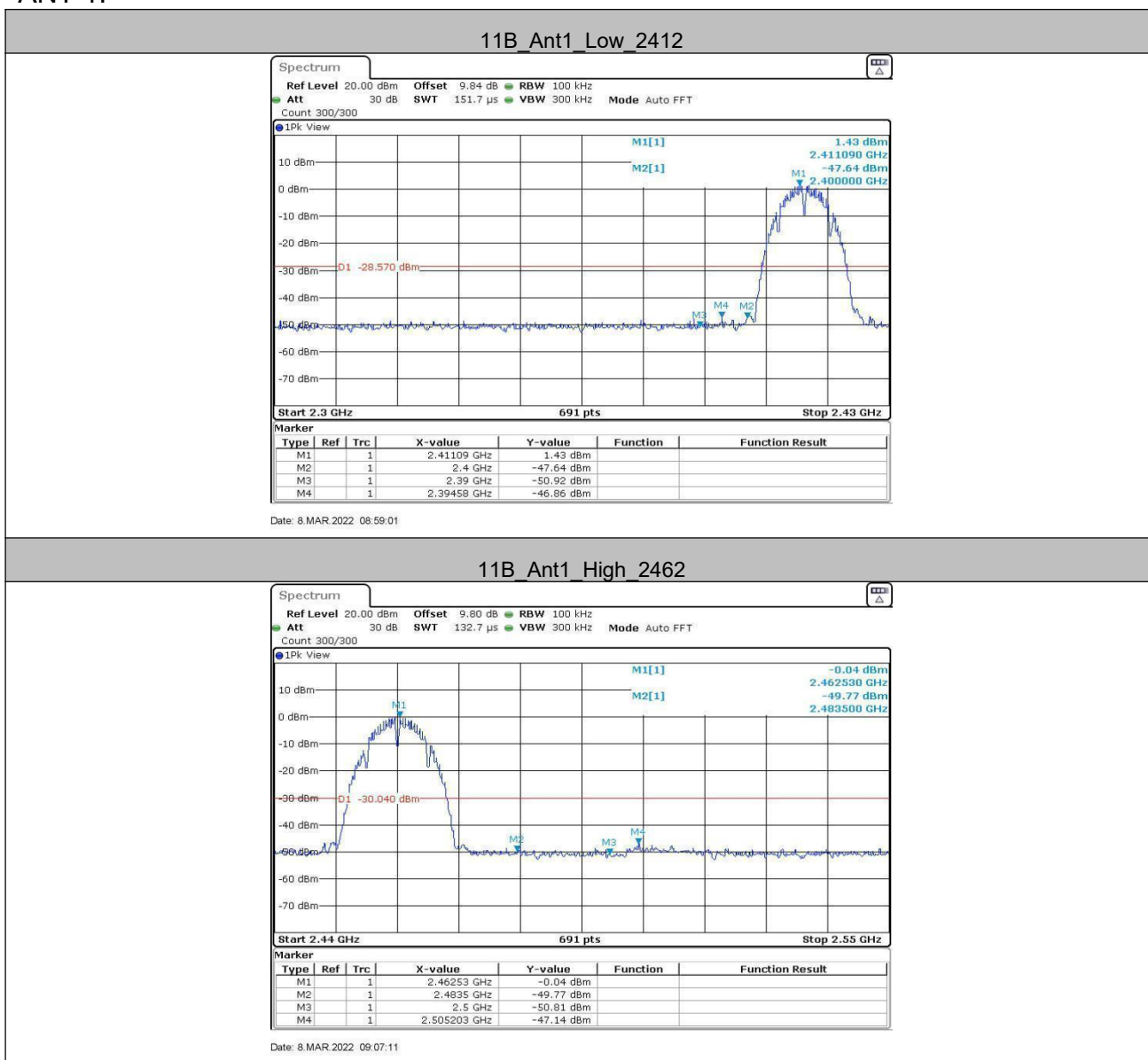
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.43	-46.86	≤-28.57	PASS
		High	2462	-0.04	-47.14	≤-30.04	PASS
11G	Ant1	Low	2412	-7.94	-44.97	≤-37.94	PASS
		High	2462	-9.96	-47.49	≤-39.96	PASS
11N20SISO	Ant1	Low	2412	-5.40	-43.93	≤-35.4	PASS
		High	2462	-7.34	-46.92	≤-37.34	PASS
11N40SISO	Ant1	Low	2422	-6.26	-46.93	≤-36.26	PASS
		High	2452	-5.66	-43.29	≤-35.66	PASS

ANT 2:

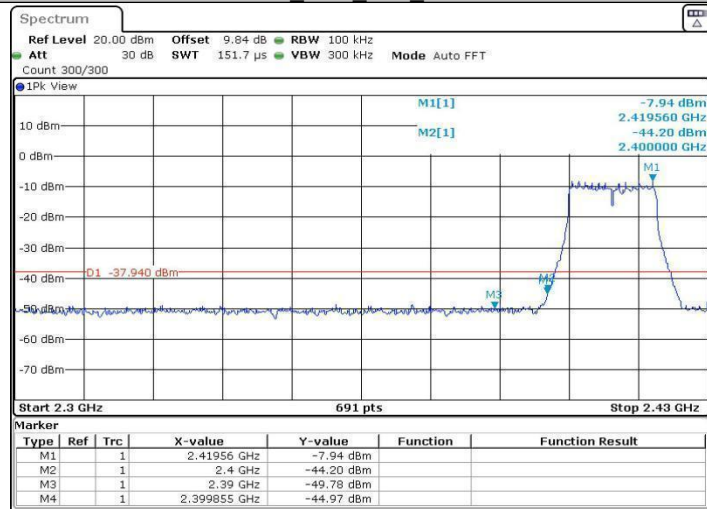
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	Low	2412	2.15	-44.58	≤-27.85	PASS
		High	2462	3.18	-47.8	≤-26.82	PASS
11G	Ant2	Low	2412	-5.04	-39.11	≤-35.04	PASS
		High	2462	-5.15	-46.69	≤-35.15	PASS
11N20SISO	Ant2	Low	2412	-3.66	-38.43	≤-33.66	PASS
		High	2462	-2.42	-47.5	≤-32.42	PASS
11N40SISO	Ant2	Low	2422	-5.43	-45.89	≤-35.43	PASS
		High	2452	-4.25	-41.29	≤-34.25	PASS

5.6.1 Test Graphs

ANT 1:



11G_Ant1_Low_2412



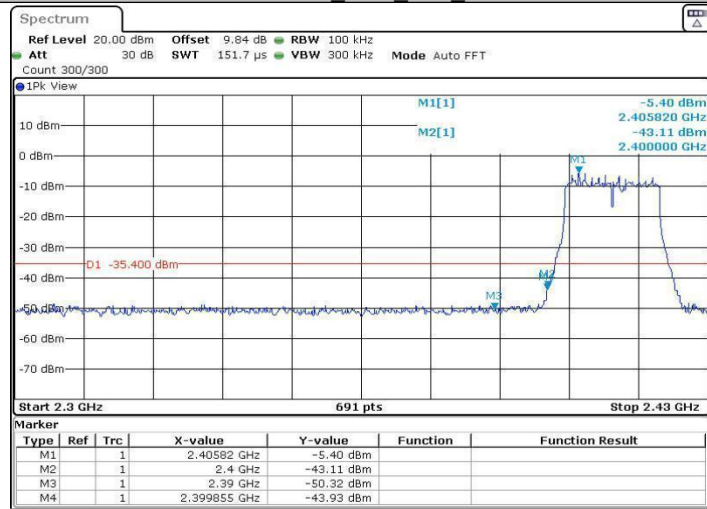
Date: 8.MAR.2022 09:15:56

11G_Ant1_High_2462



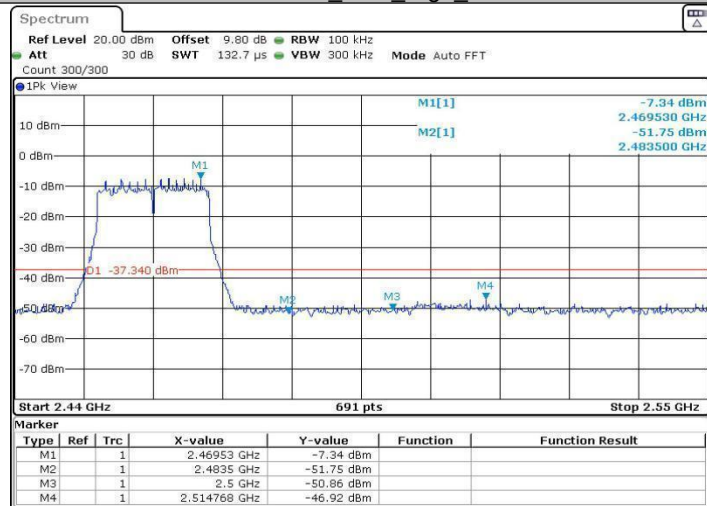
Date: 8.MAR.2022 09:22:02

11N20SISO_Ant1_Low_2412



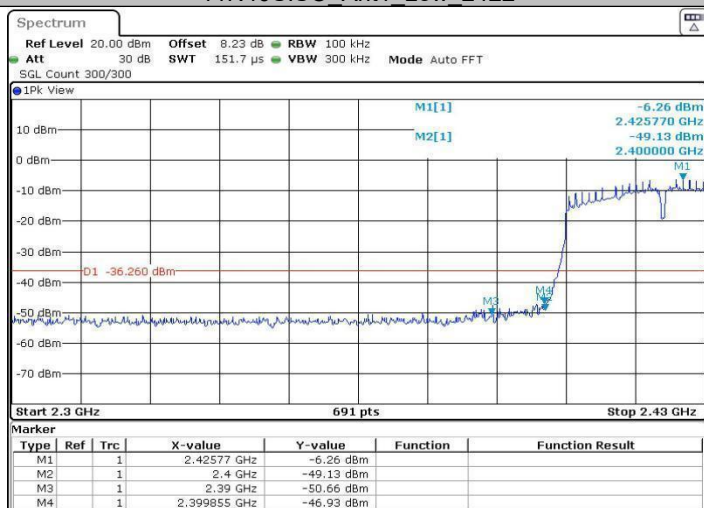
Date: 8.MAR.2022 09:25:51

11N20SISO_Ant1_High_2462



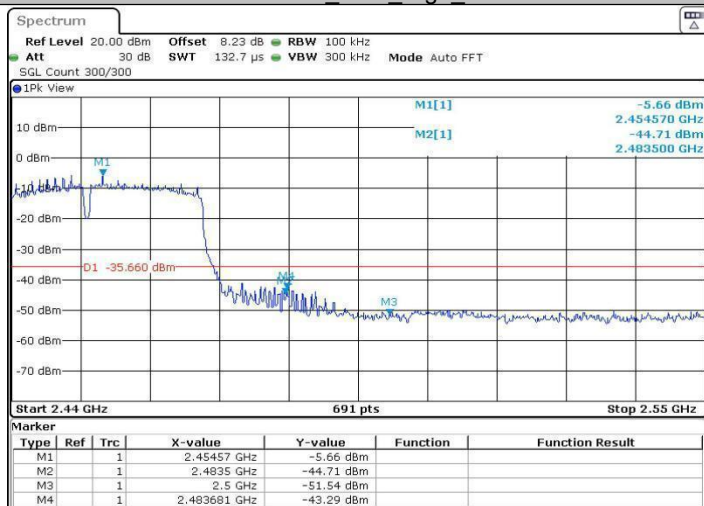
Date: 8.MAR.2022 09:34:25

11N40SISO_Ant1_Low_2422



Date: 19 SEP 2022 07:44:11

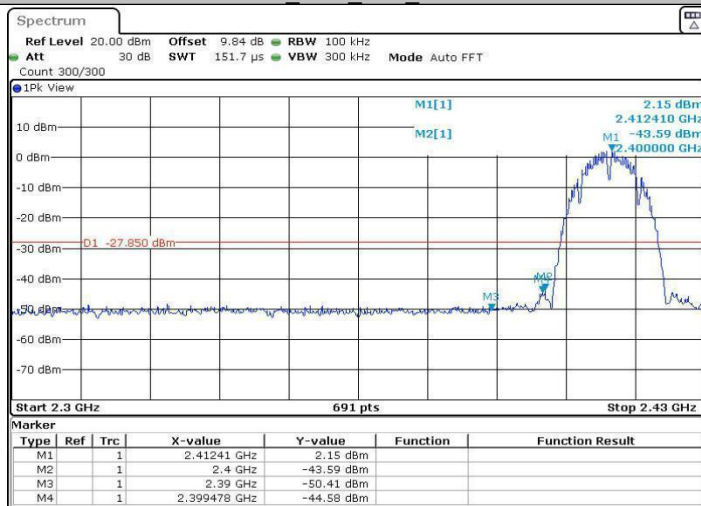
11N40SISO_Ant1_High_2452



Date: 19 SEP 2022 07:48:45

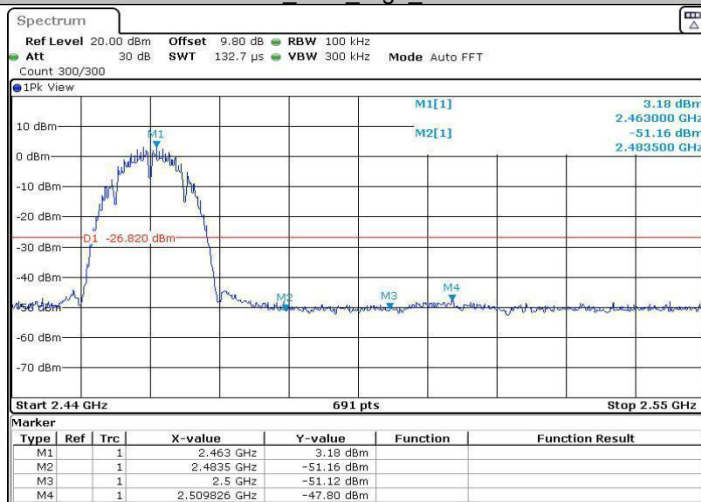
ANT 2:

11B Ant2 Low 2412



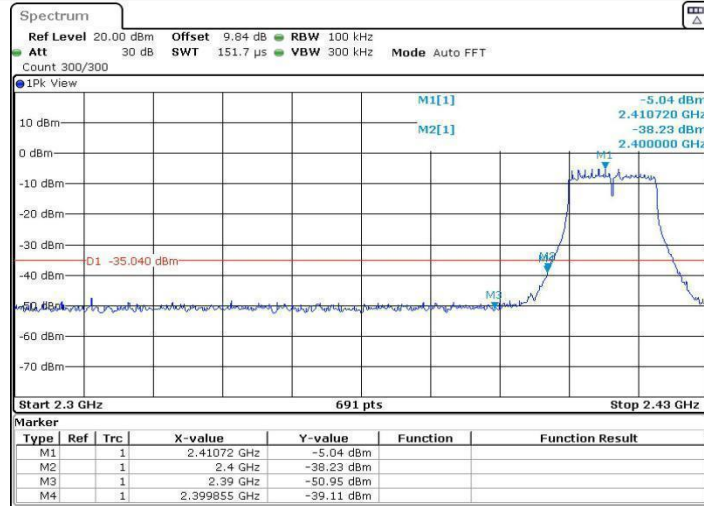
Date: 13.APR.2022 03:39:40

11B Ant2 High 2462



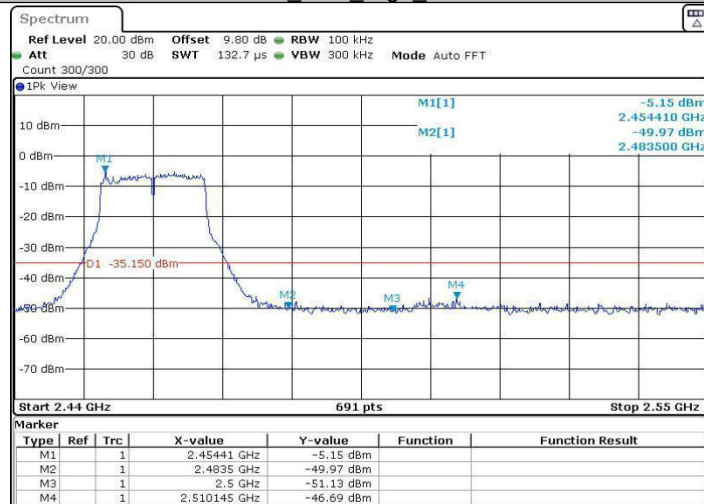
Date: 13.APR.2022 03:55:14

11G Ant2 Low 2412



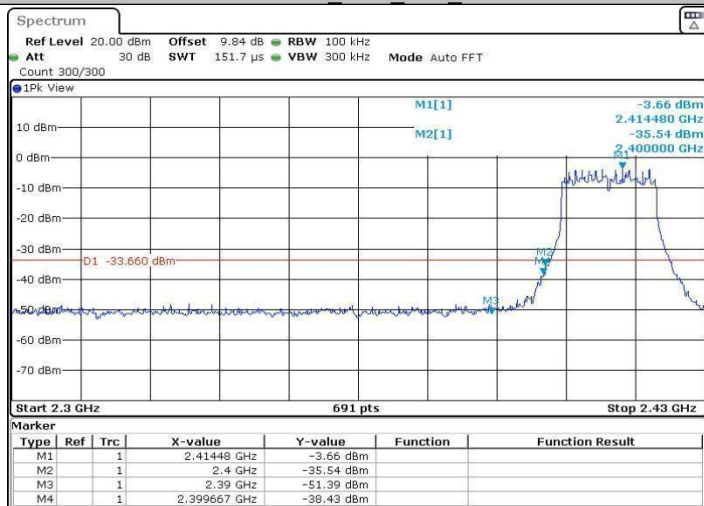
Date: 13 APR.2022 03:58:23

11G Ant2 High 2462



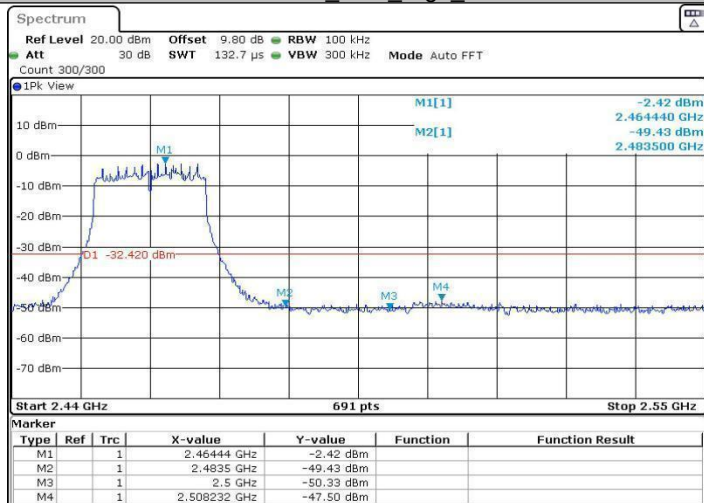
Date: 13 APR.2022 04:21:19

11N20SISO_Ant2_Low_2412



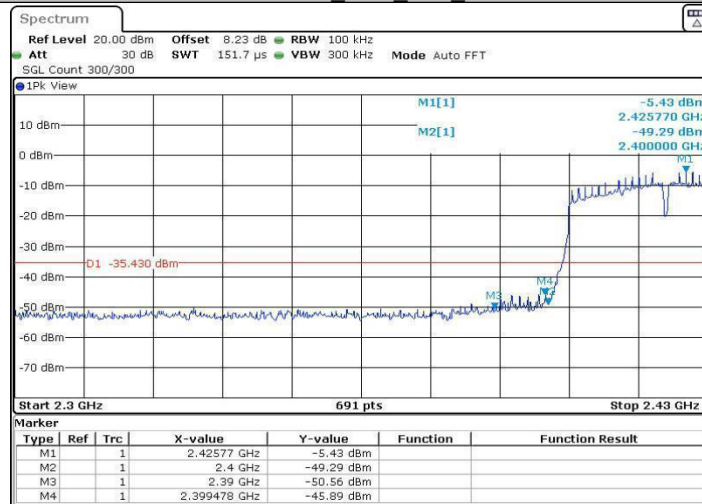
Date: 13 APR 2022 04:24:57

11N20SISO_Ant2_High_2462



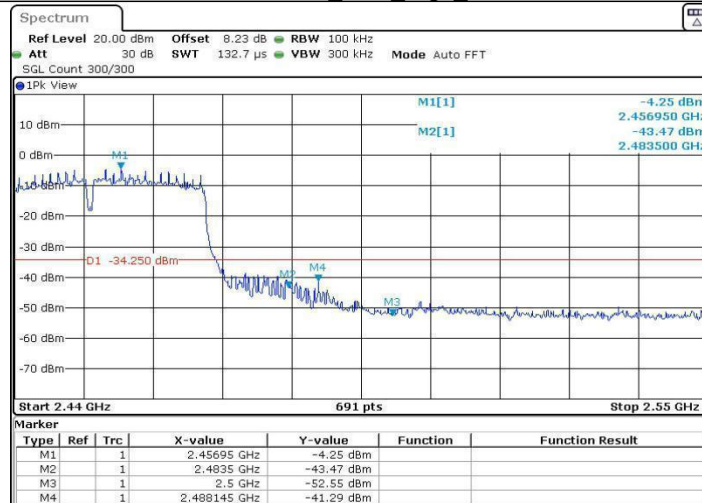
Date: 13 APR 2022 04:31:22

11N40SISO_Ant2_Low_2422



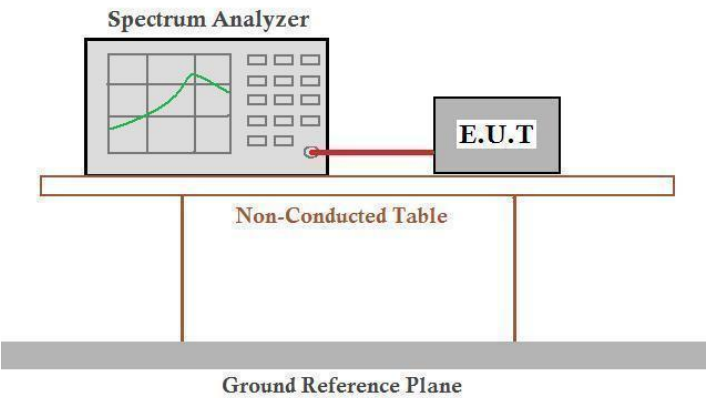
Date: 19 SEP.2022 08:44:31

11N40SISO_Ant2_High_2452



Date: 19 SEP.2022 08:53:38

5.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

Test Result

ANT 1:

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.60	1.60	---	PASS
			30~1000	1.60	-56.37	≤-28.4	PASS
			1000~26500	1.60	-52.6	≤-28.4	PASS
		2437	Reference	2.13	2.13	---	PASS
			30~1000	2.13	-56.82	≤-27.87	PASS
			1000~26500	2.13	-52.01	≤-27.87	PASS
		2462	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-56.03	≤-30.11	PASS
			1000~26500	-0.11	-53.23	≤-30.11	PASS
11G	Ant1	2412	Reference	-6.87	-6.87	---	PASS
			30~1000	-6.87	-56.29	≤-36.87	PASS
			1000~26500	-6.87	-53.76	≤-36.87	PASS
		2437	Reference	-6.48	-6.48	---	PASS
			30~1000	-6.48	-55.99	≤-36.48	PASS
			1000~26500	-6.48	-53.74	≤-36.48	PASS
		2462	Reference	-8.05	-8.05	---	PASS
			30~1000	-8.05	-56.89	≤-38.05	PASS
			1000~26500	-8.05	-52.63	≤-38.05	PASS
11N20SISO	Ant1	2412	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-56.87	≤-35.24	PASS
			1000~26500	-5.24	-52.85	≤-35.24	PASS
		2437	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-56.51	≤-35.13	PASS
			1000~26500	-5.13	-53.61	≤-35.13	PASS
		2462	Reference	-7.22	-7.22	---	PASS
			30~1000	-7.22	-57.02	≤-37.22	PASS
			1000~26500	-7.22	-53.59	≤-37.22	PASS
11N40SISO	Ant1	2422	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-58.84	≤-35.64	PASS
			1000~26500	-5.64	-55.34	≤-35.64	PASS
		2437	Reference	-5.42	-5.42	---	PASS
			30~1000	-5.42	-58.21	≤-35.42	PASS
			1000~26500	-5.42	-54.54	≤-35.42	PASS

		2452	Reference	-5.15	-5.15	---	PASS
			30~1000	-5.15	-58.8	≤ -35.15	PASS
			1000~26500	-5.15	-54.83	≤ -35.15	PASS

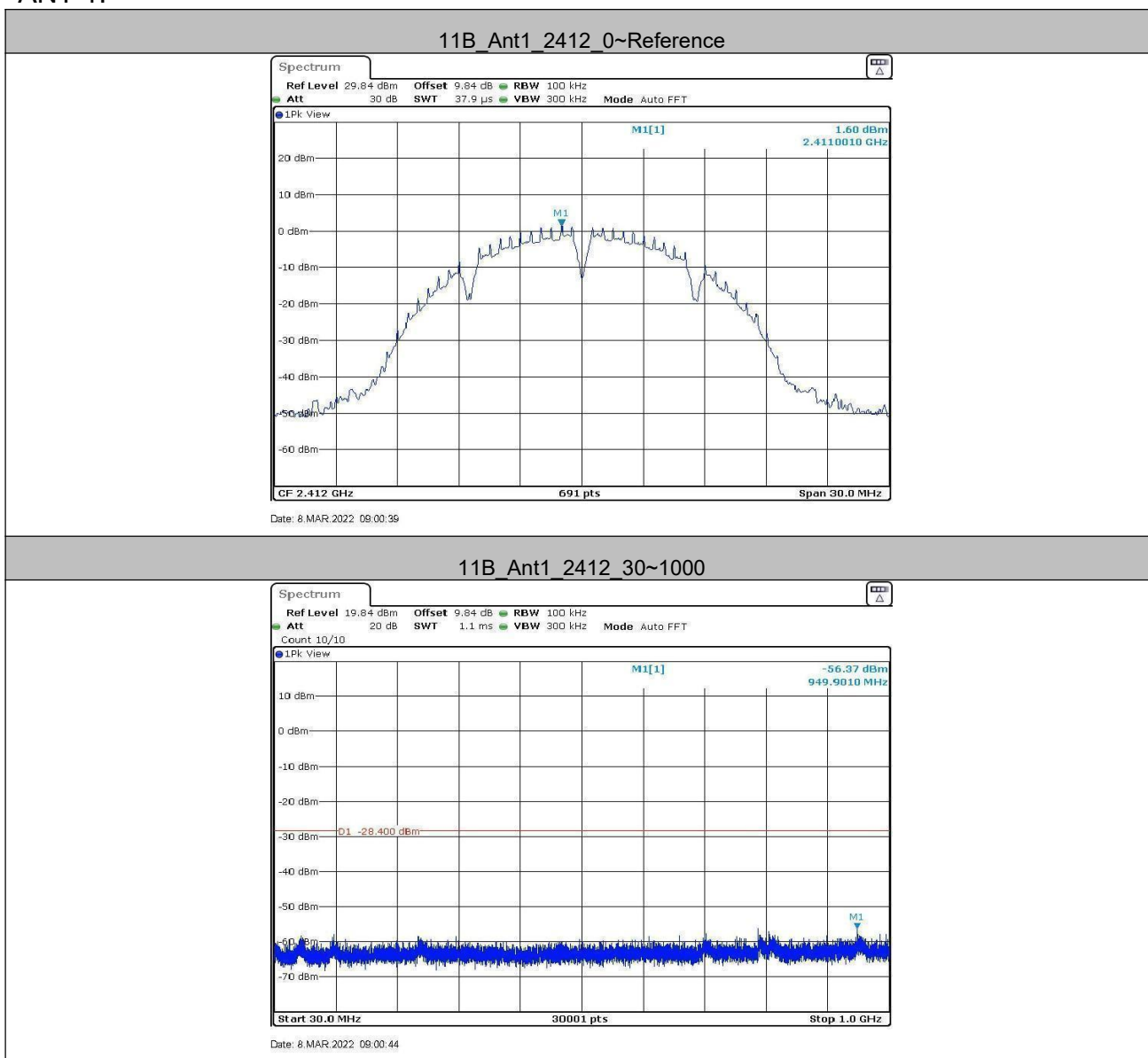
ANT 2:

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-56.15	≤ -27.81	PASS
			1000~26500	2.19	-52.58	≤ -27.81	PASS
		2437	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-56.36	≤ -26.16	PASS
			1000~26500	3.84	-53.4	≤ -26.16	PASS
		2462	Reference	3.12	3.12	---	PASS
			30~1000	3.12	-57.22	≤ -26.88	PASS
			1000~26500	3.12	-53.51	≤ -26.88	PASS
11G	Ant1	2412	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-57.6	≤ -34.04	PASS
			1000~26500	-4.04	-53.26	≤ -34.04	PASS
		2437	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-56.6	≤ -32.77	PASS
			1000~26500	-2.77	-52.91	≤ -32.77	PASS
		2462	Reference	-3.14	-3.14	---	PASS
			30~1000	-3.14	-56.9	≤ -33.14	PASS
			1000~26500	-3.14	-53.55	≤ -33.14	PASS
11N20SISO	Ant1	2412	Reference	-3.42	-3.42	---	PASS
			30~1000	-3.42	-56.88	≤ -33.42	PASS
			1000~26500	-3.42	-52.82	≤ -33.42	PASS
		2437	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-57.01	≤ -32.18	PASS
			1000~26500	-2.18	-53.19	≤ -32.18	PASS
		2462	Reference	-2.48	-2.48	---	PASS
			30~1000	-2.48	-55.97	≤ -32.48	PASS
			1000~26500	-2.48	-53.97	≤ -32.48	PASS
11N40SISO	Ant1	2422	Reference	-5.54	-5.54	---	PASS
			30~1000	-5.54	-59.19	≤ -35.54	PASS
			1000~26500	-5.54	-55.9	≤ -35.54	PASS

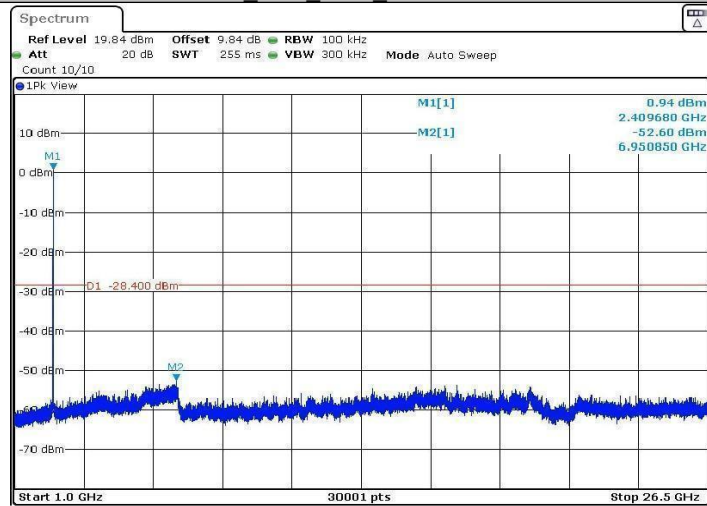
		2437	Reference	-5.19	-5.19	---	PASS
			30~1000	-5.19	-58.54	≤ -35.19	PASS
			1000~26500	-5.19	-54.47	≤ -35.19	PASS
		2452	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-56.15	≤ -27.81	PASS
			1000~26500	2.19	-52.58	≤ -27.81	PASS

Test Graphs

ANT 1:

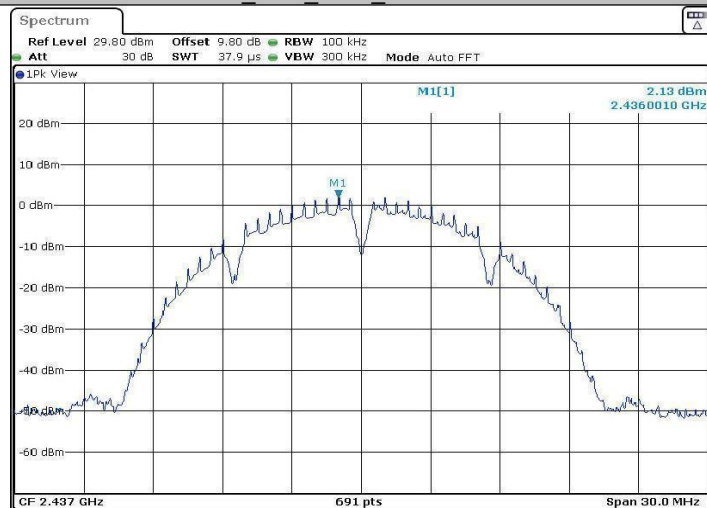


11B_Ant1_2412_1000~26500



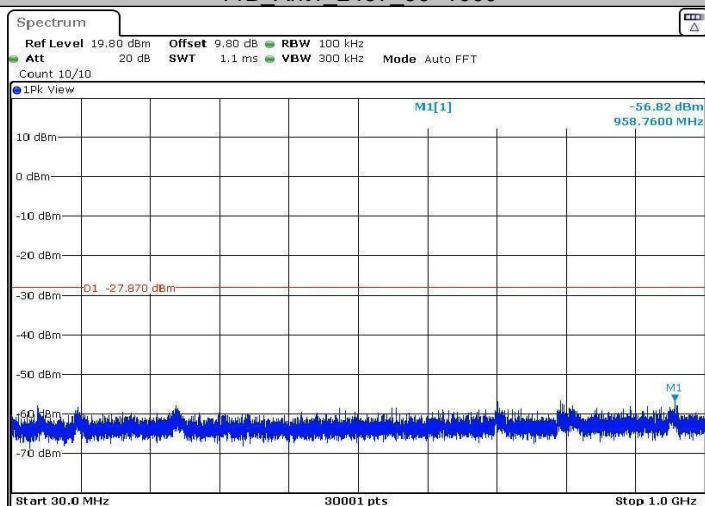
Date: 8.MAR.2022 09:01:06

11B_Ant1_2437_0~Reference



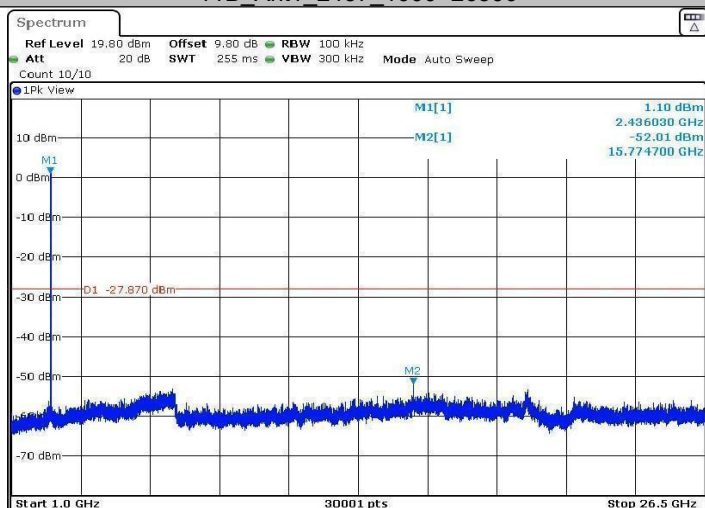
Date: 8.MAR.2022 09:05:02

11B_Ant1_2437_30~1000



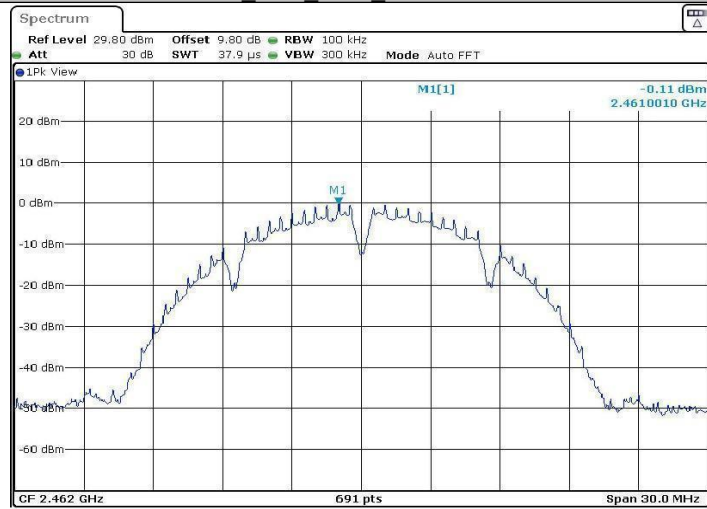
Date: 8.MAR.2022 09:05:06

11B_Ant1_2437_1000~26500



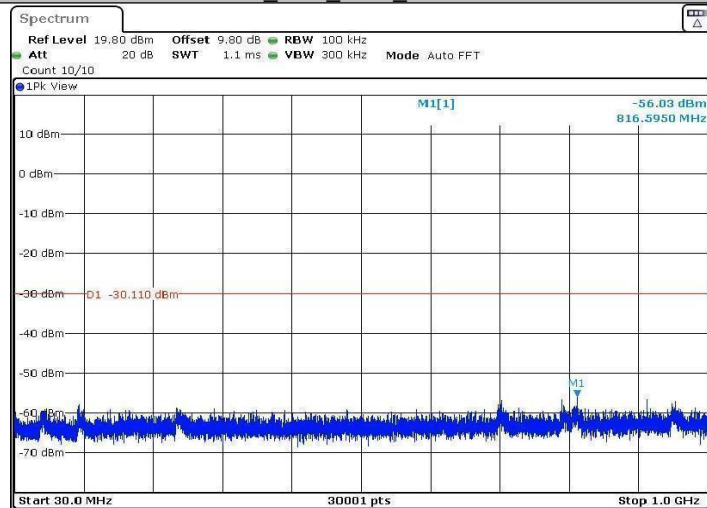
Date: 8.MAR.2022 09:05:28

11B_Ant1_2462_0~Reference



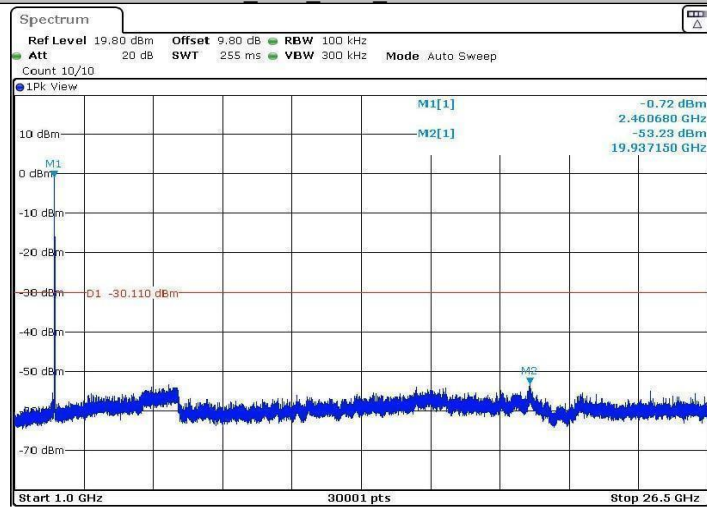
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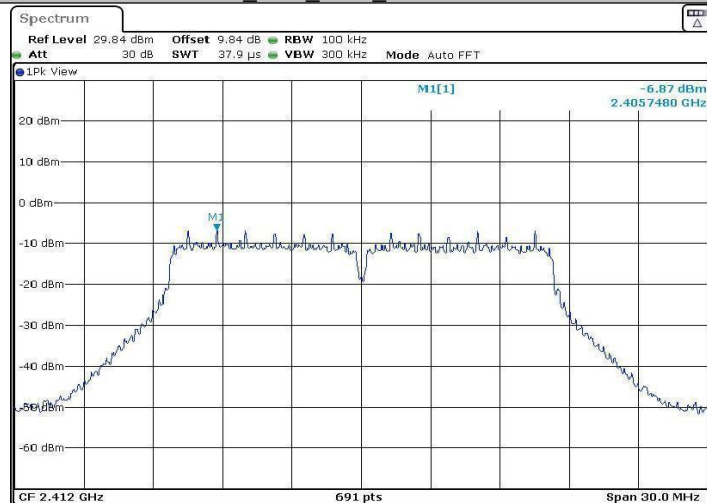
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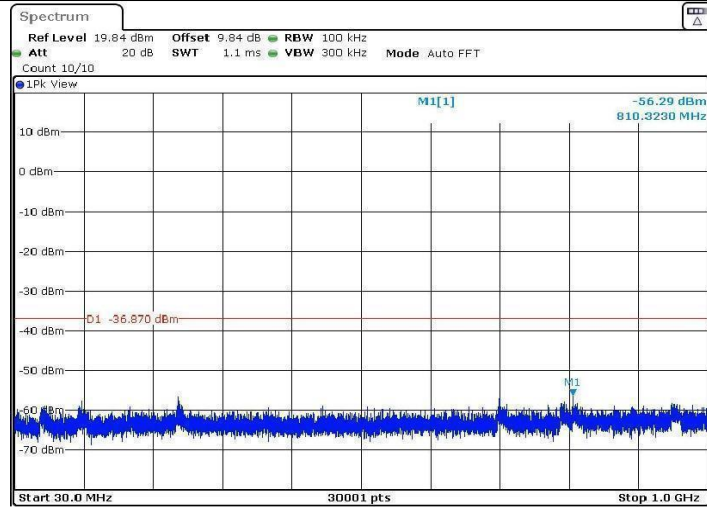
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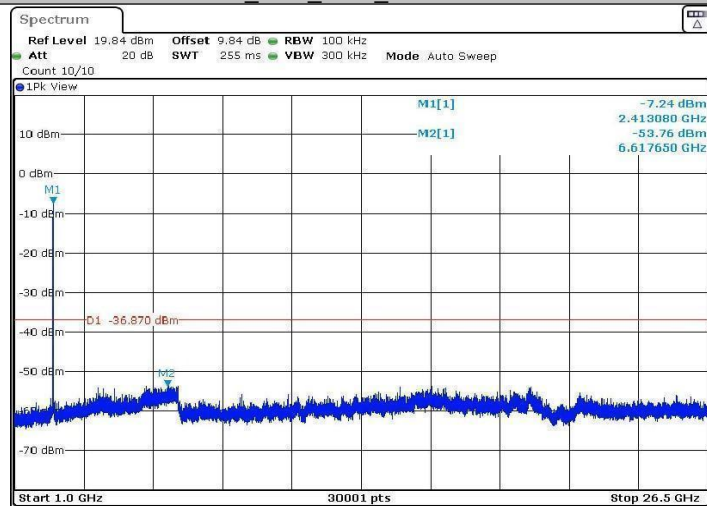
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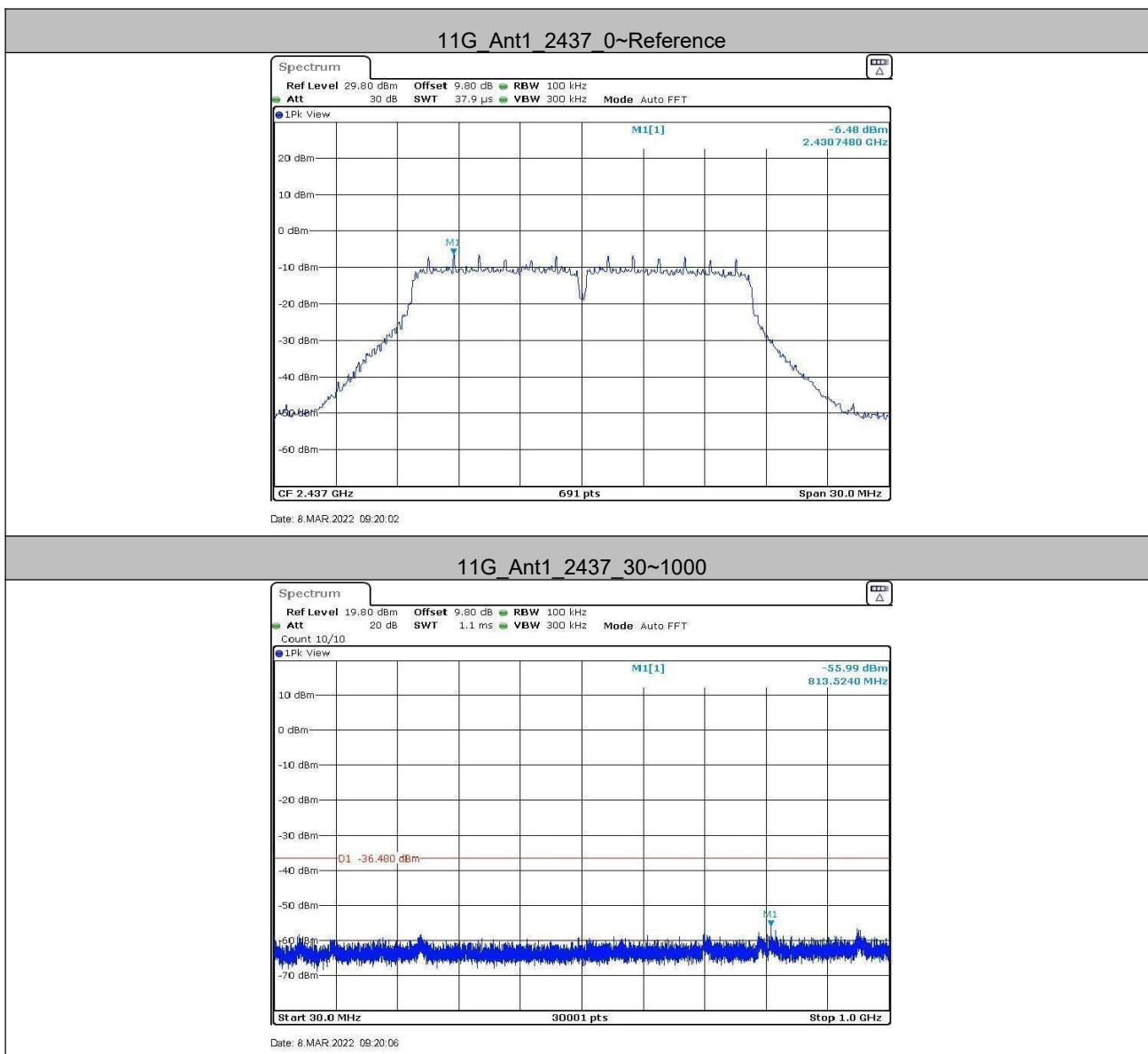


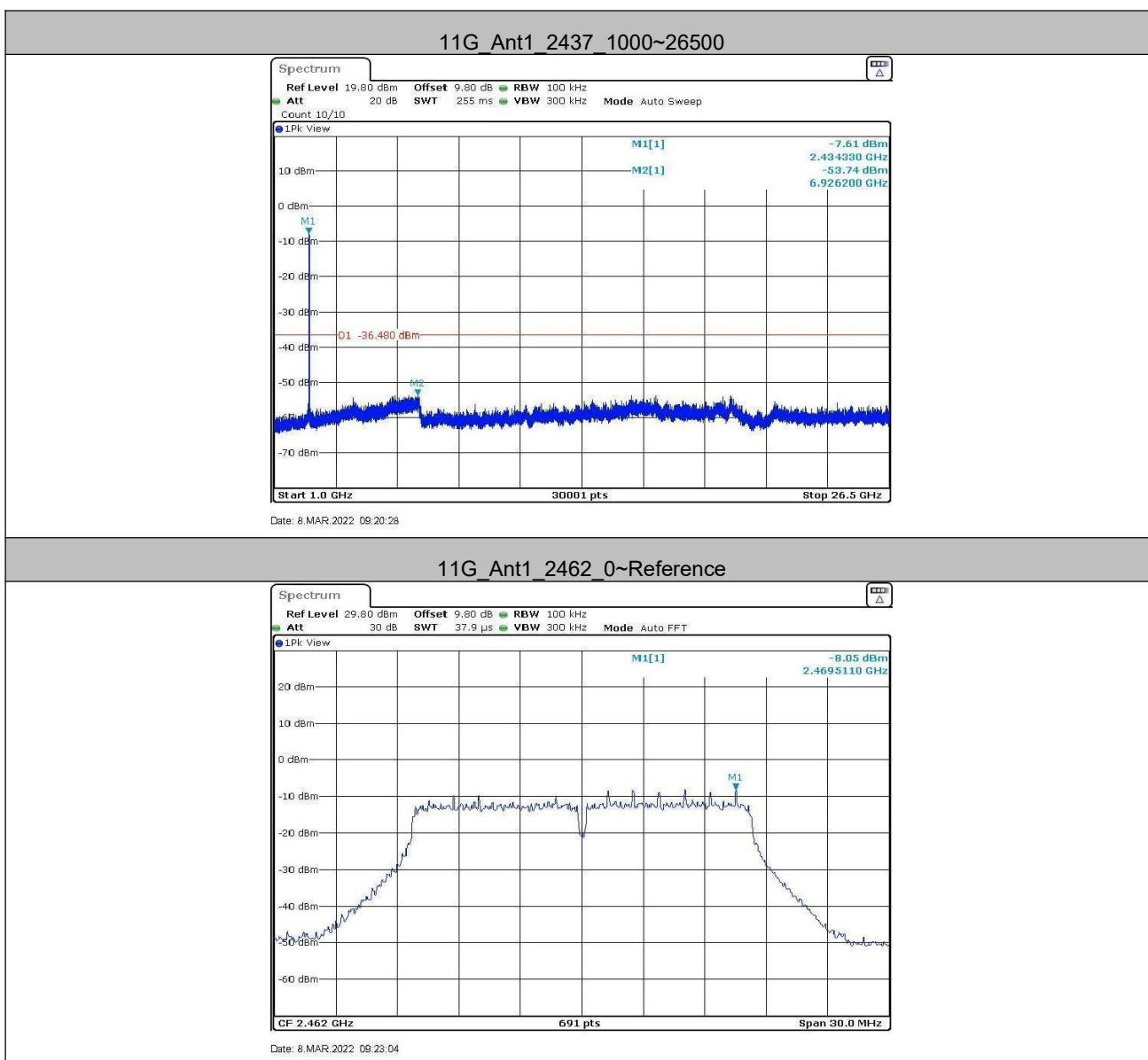
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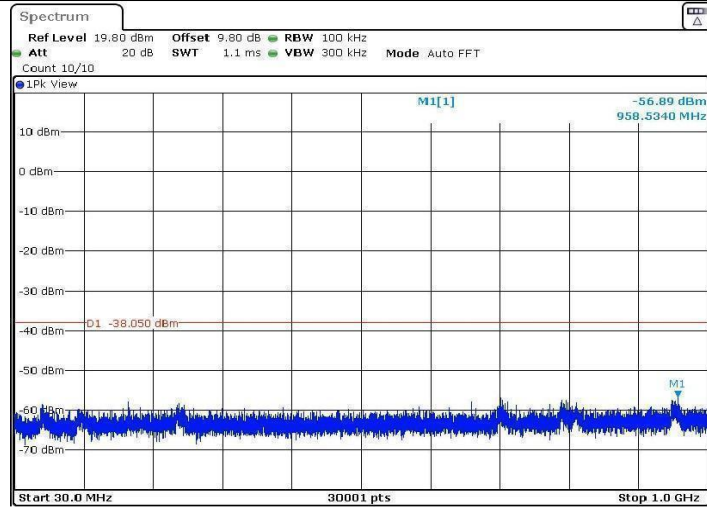


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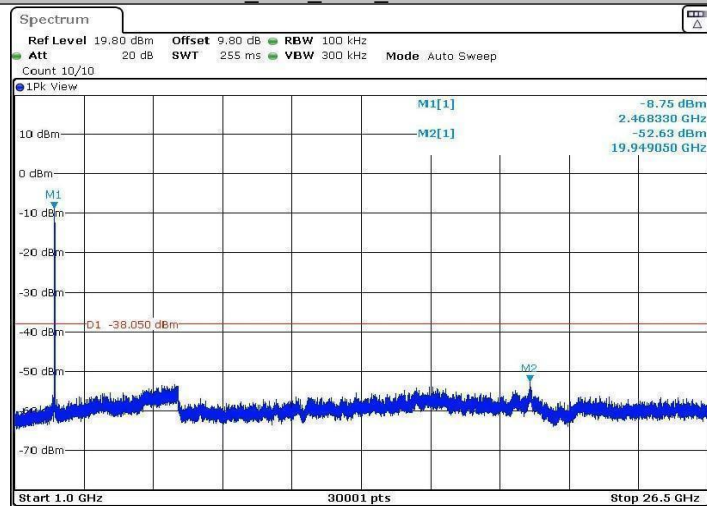


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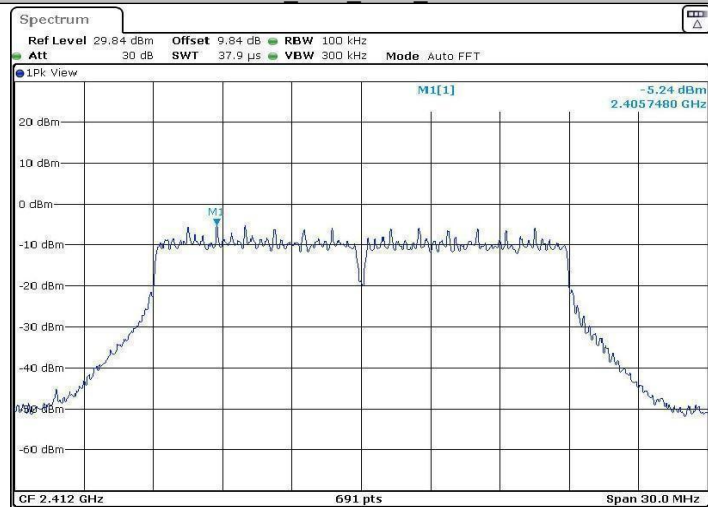
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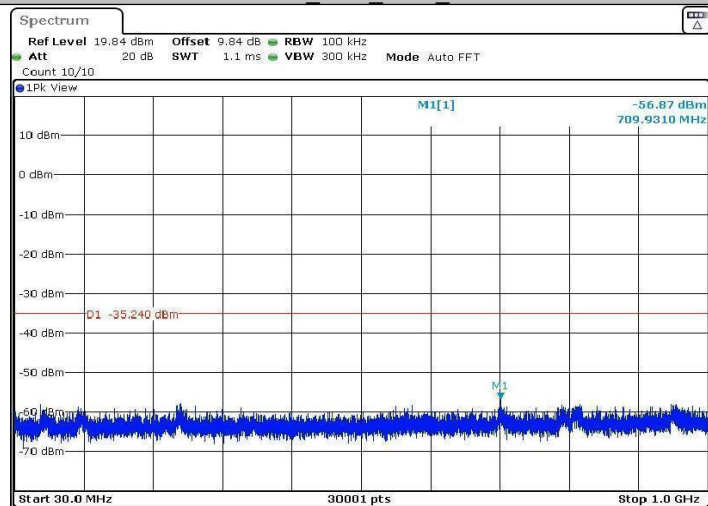
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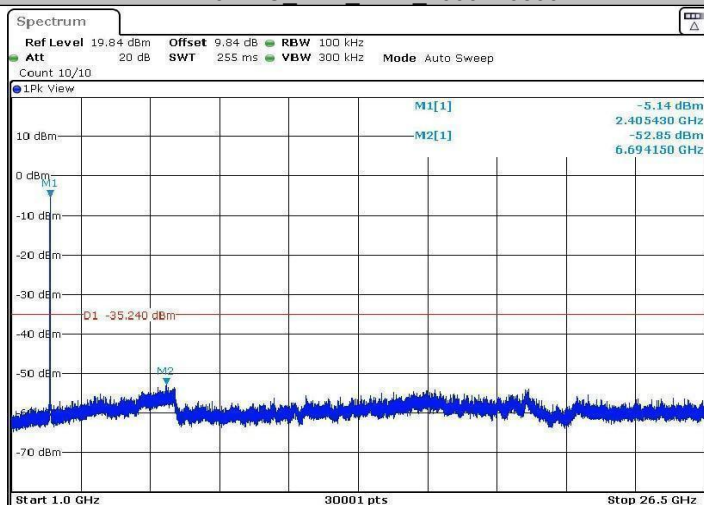
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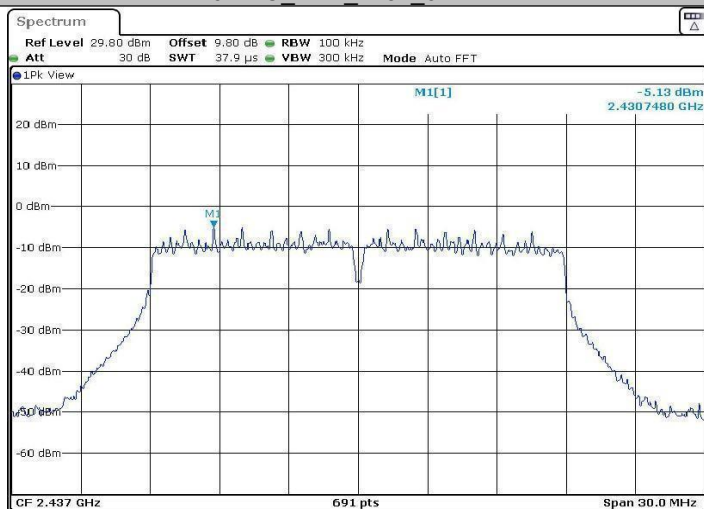
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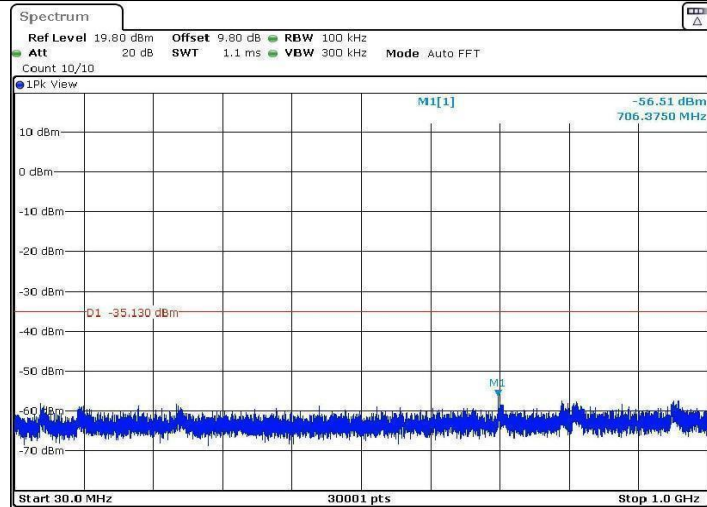
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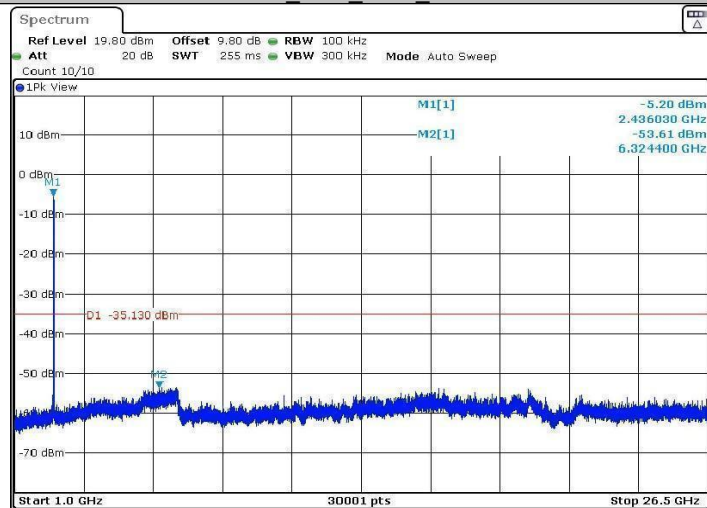
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11N20SISO_Ant1_2437_30~1000



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Date: 8 MAR 2022 09:32:17