

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	11.6"Tablet
Test Model:	100043279
Sample ID:	20210528-22-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-RF180814.	

Contents

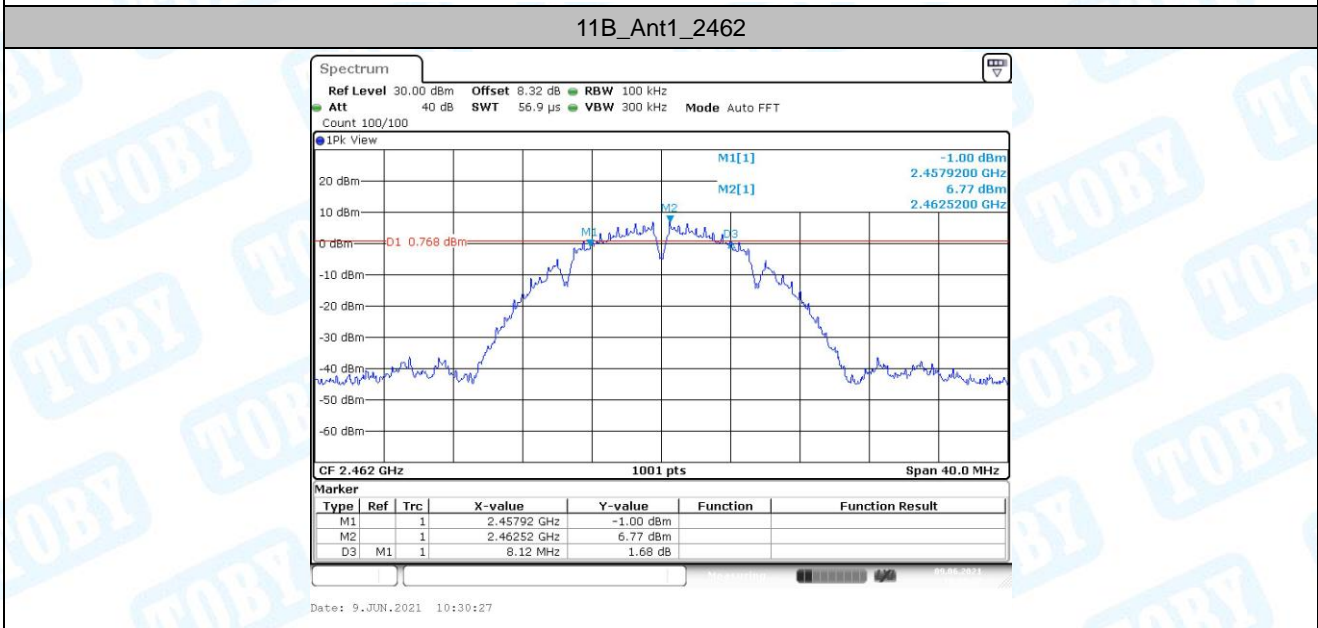
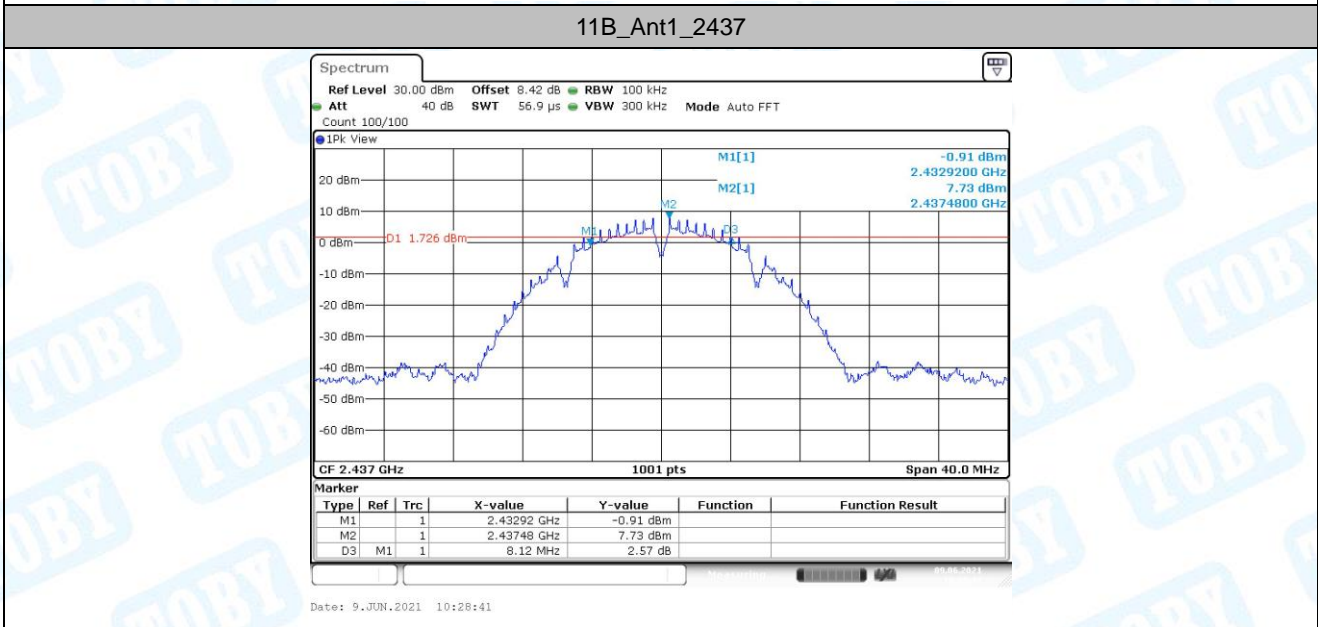
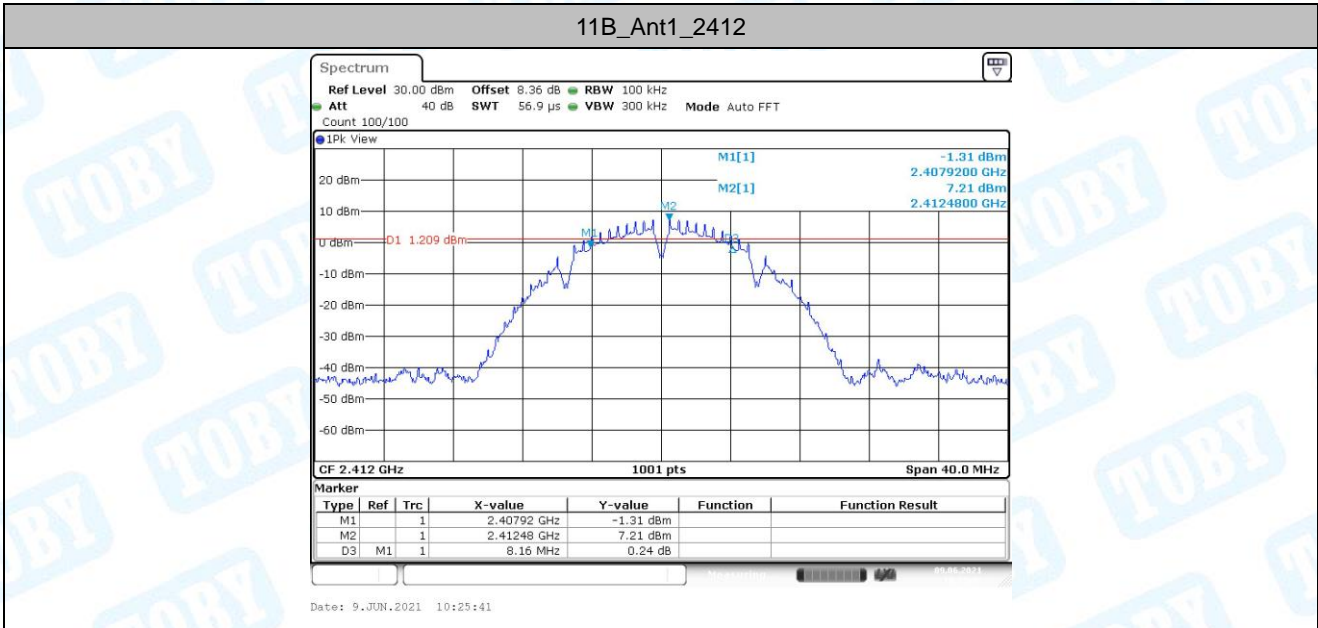
1. DTS Bandwidth.....	3
1.1. Test Result.....	3
1.2. Test Graphs	4
2. Occupied Channel Bandwidth.....	8
2.1. Test Result.....	8
2.2. Test Graphs	9
3. Maximum conducted output power.....	13
3.1. Test Result.....	13
4. Maximum power spectral density	14
4.1. Test Result.....	14
4.2. Test Graphs	15
5. Band edge measurements	19
5.1. Test Result.....	19
5.2. Test Graphs	20
6. Conducted Spurious Emission.....	23
6.1. Test Result.....	23
6.2. Test Graphs	24
7. Duty Cycle	36
7.1. Test Result.....	36
7.2. Test Graphs	37
8. Emissions in Restricted Bands.....	41
8.1. Test Result.....	41
8.2. Test Graphs	42

1. DTS Bandwidth

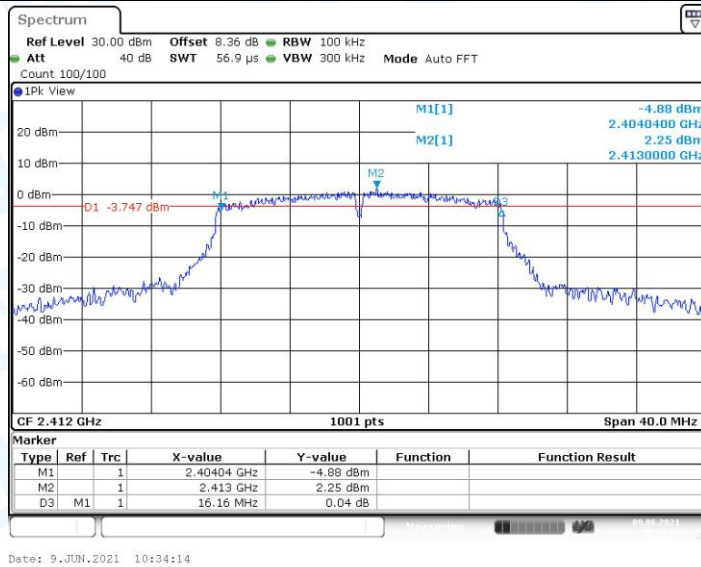
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.160	2407.920	2416.080	0.5	PASS
		2437	8.120	2432.920	2441.040	0.5	PASS
		2462	8.120	2457.920	2466.040	0.5	PASS
11G	Ant1	2412	16.160	2404.040	2420.200	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.160	2420.840	0.5	PASS
		2437	17.680	2428.160	2445.840	0.5	PASS
		2462	17.680	2453.160	2470.840	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.400	2439.840	0.5	PASS
		2437	36.240	2418.760	2455.000	0.5	PASS
		2452	35.840	2433.760	2469.600	0.5	PASS

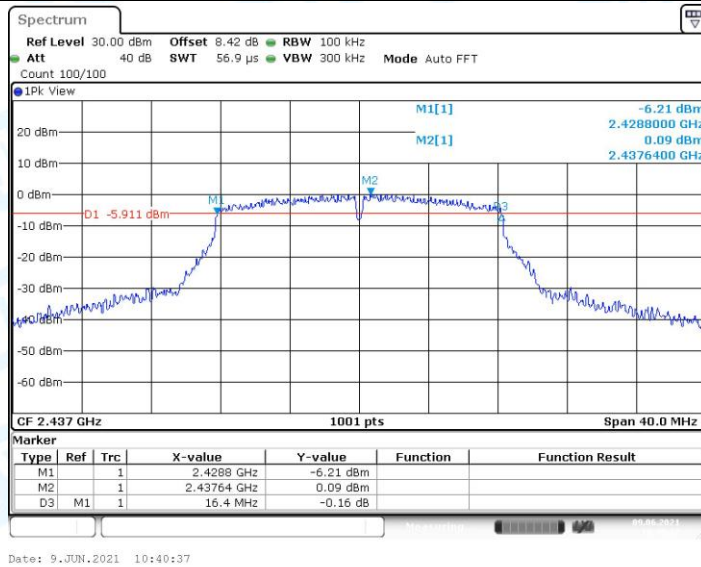
1.2. Test Graphs



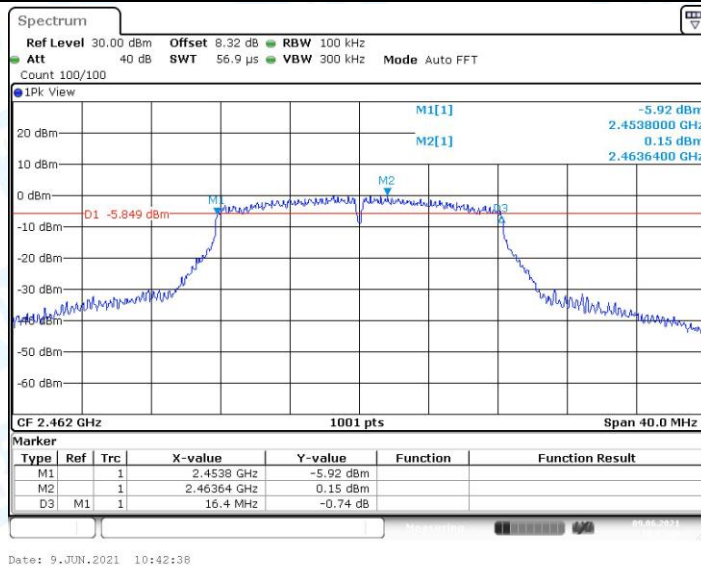
11G_Ant1_2412



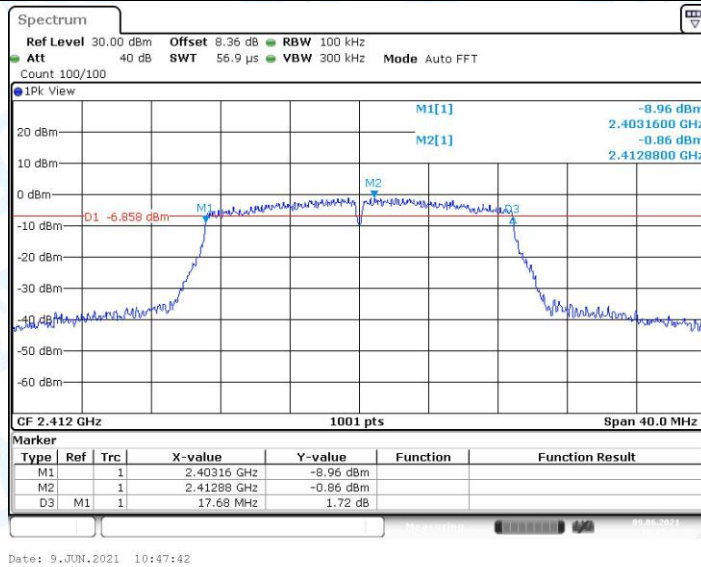
11G_Ant1_2437



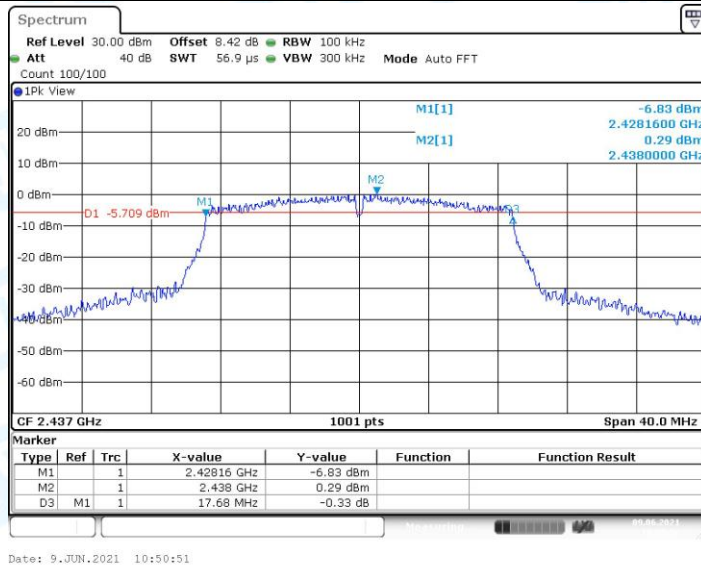
11G_Ant1_2462



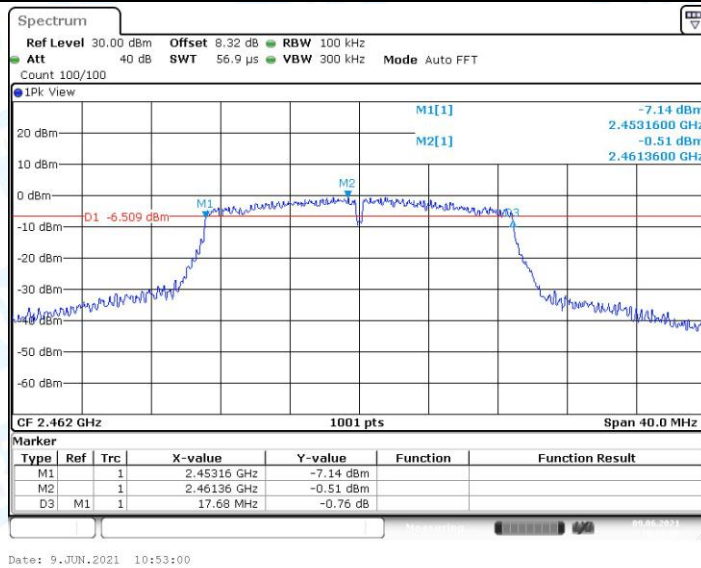
11N20SISO_Ant1_2412



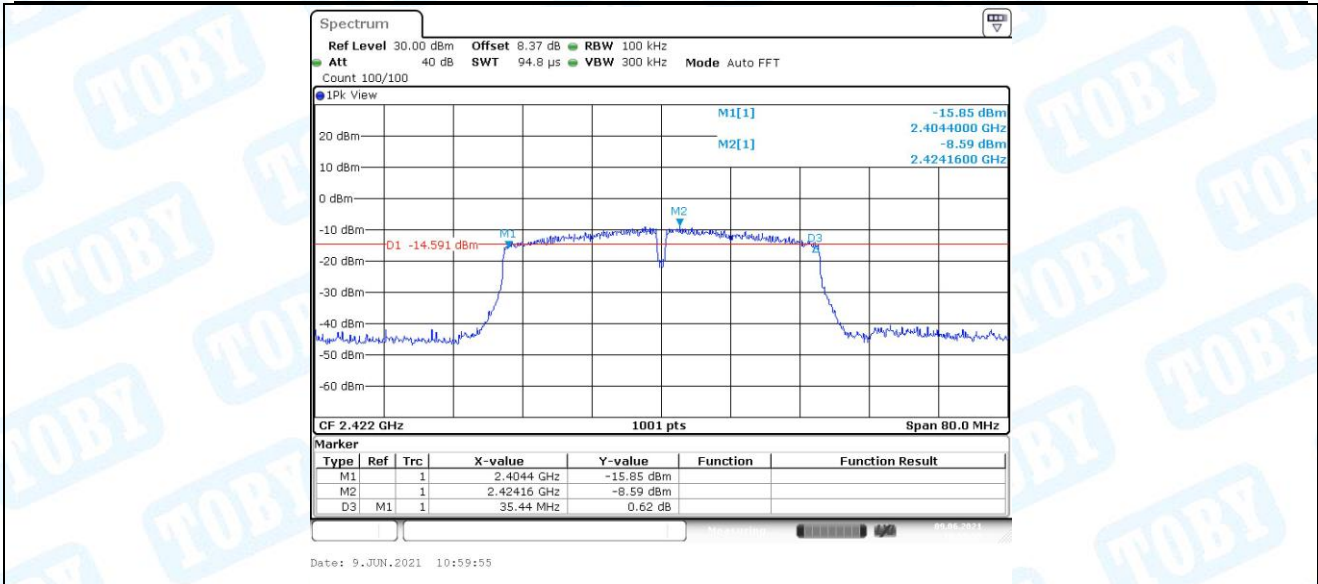
11N20SISO_Ant1_2437



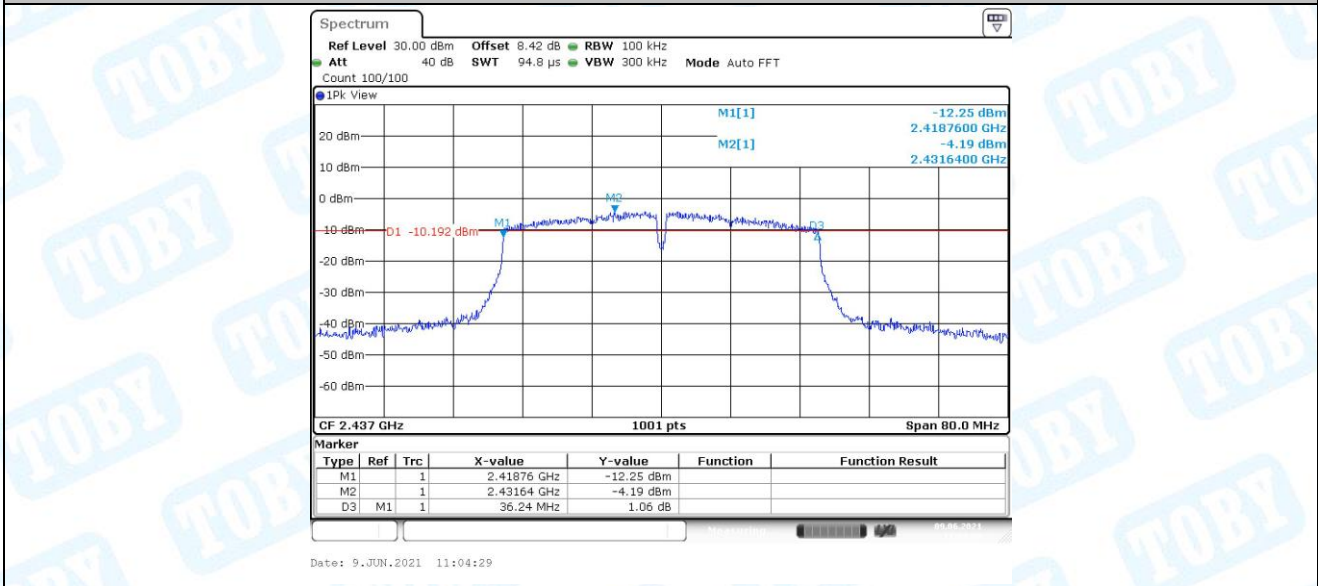
11N20SISO_Ant1_2462



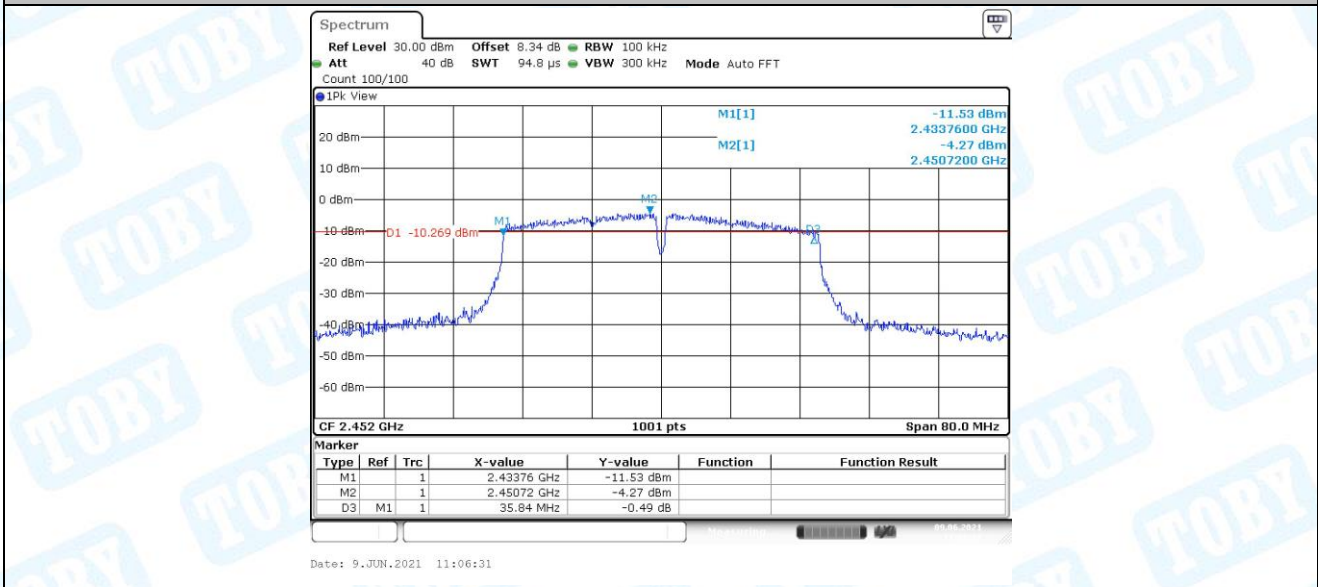
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

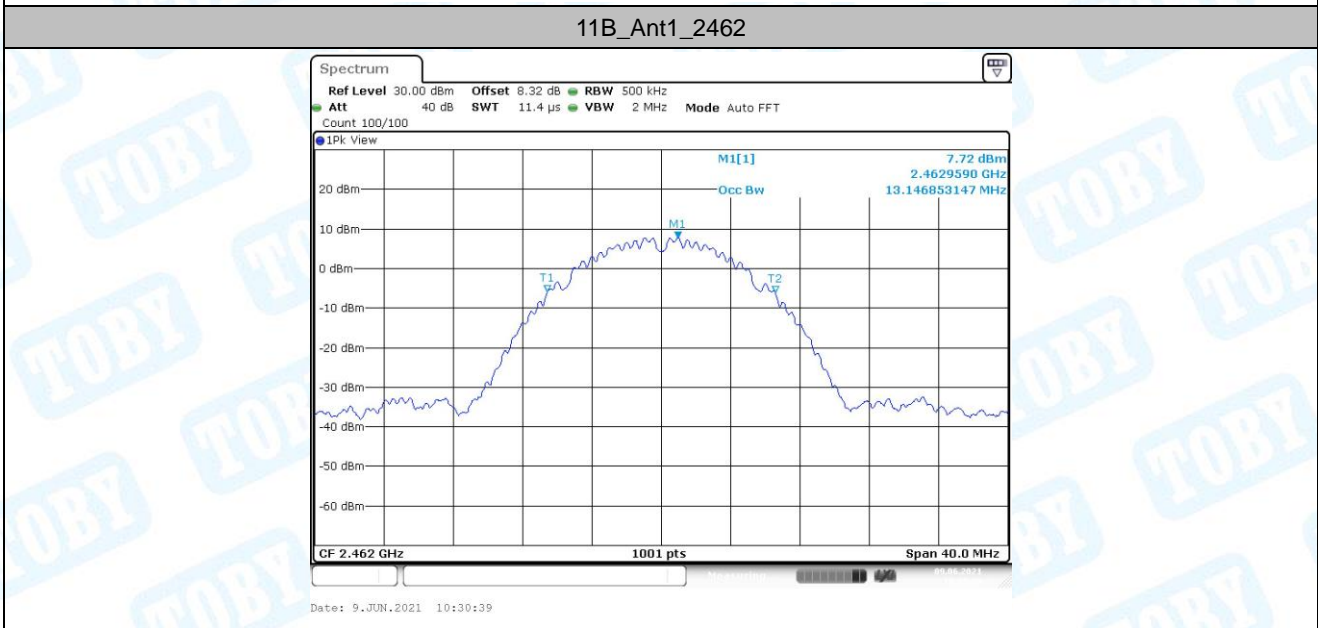
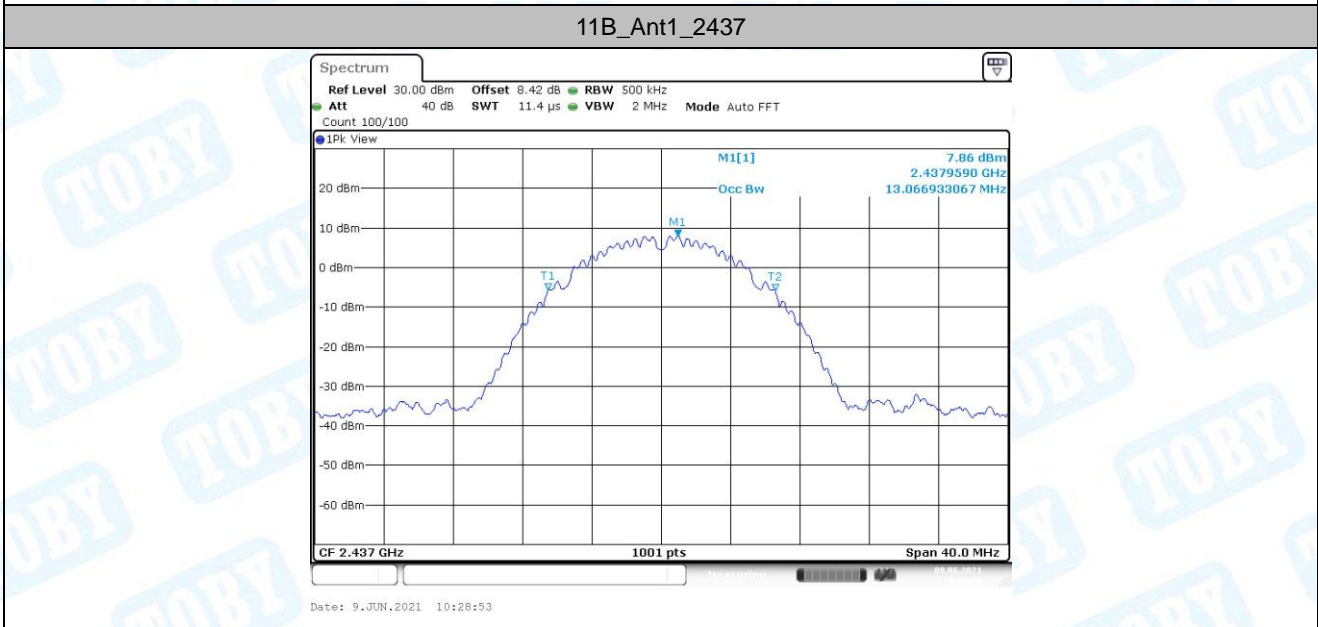
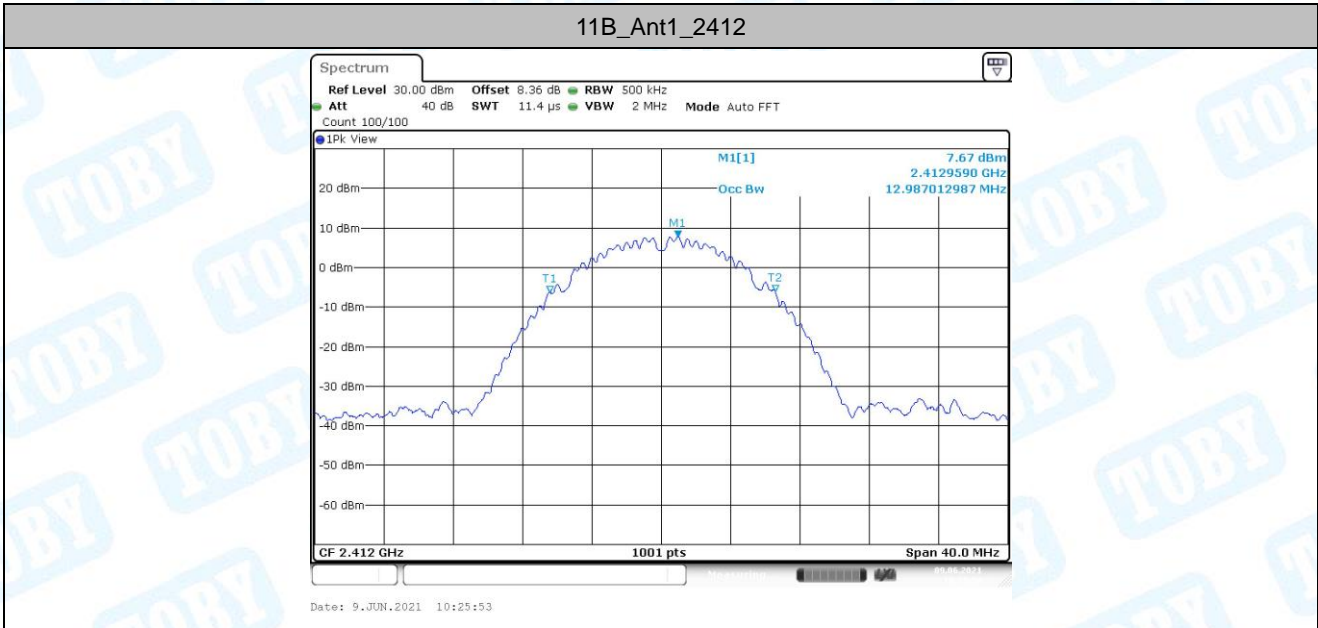


2. Occupied Channel Bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.987	2405.566	2418.553	---	PASS
		2437	13.067	2430.487	2443.553	---	PASS
		2462	13.147	2455.407	2468.553	---	PASS
11G	Ant1	2412	17.103	2403.608	2420.711	---	PASS
		2437	17.143	2428.528	2445.671	---	PASS
		2462	17.063	2453.449	2470.511	---	PASS
11N20SISO	Ant1	2412	17.822	2403.129	2420.951	---	PASS
		2437	18.102	2427.969	2446.071	---	PASS
		2462	17.982	2453.009	2470.991	---	PASS
11N40SISO	Ant1	2422	36.204	2404.018	2440.222	---	PASS
		2437	36.044	2419.018	2455.062	---	PASS
		2452	36.044	2433.858	2469.902	---	PASS

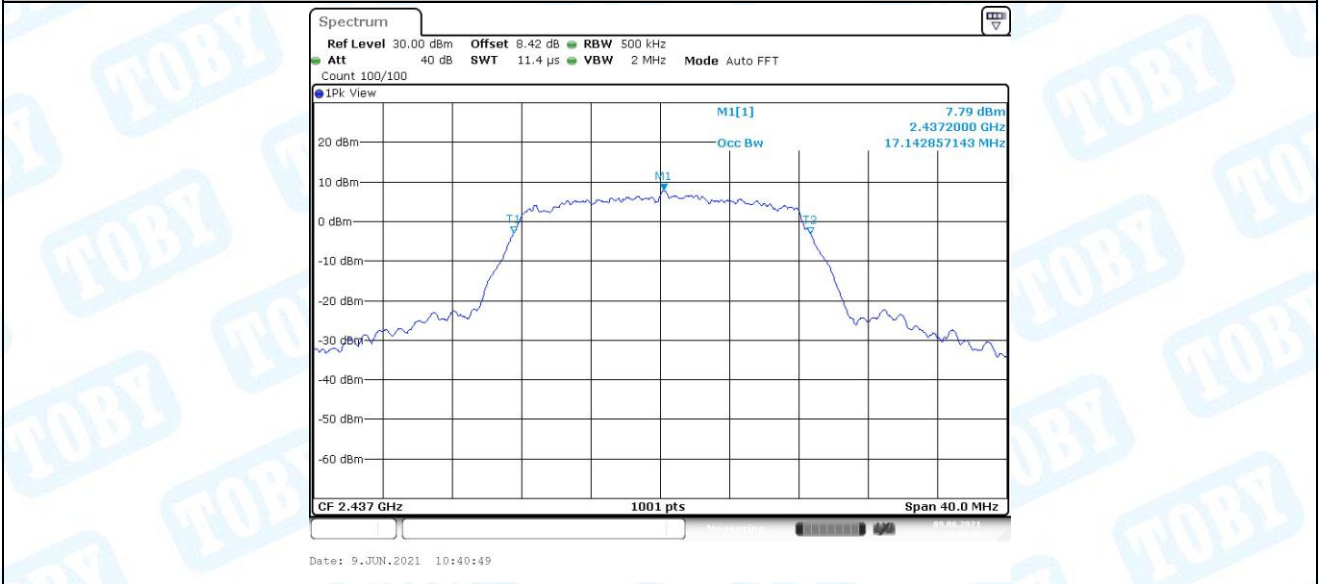
2.2. Test Graphs



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



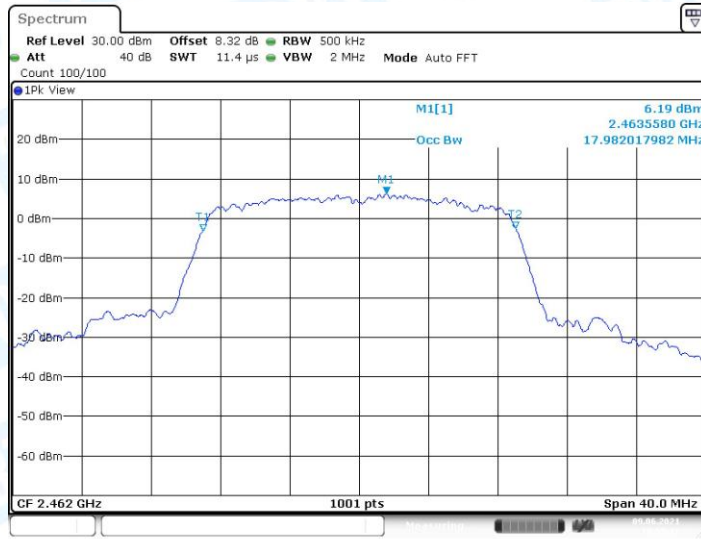
Date: 9. JUN. 2021 10:47:54

11N20SISO_Ant1_2437



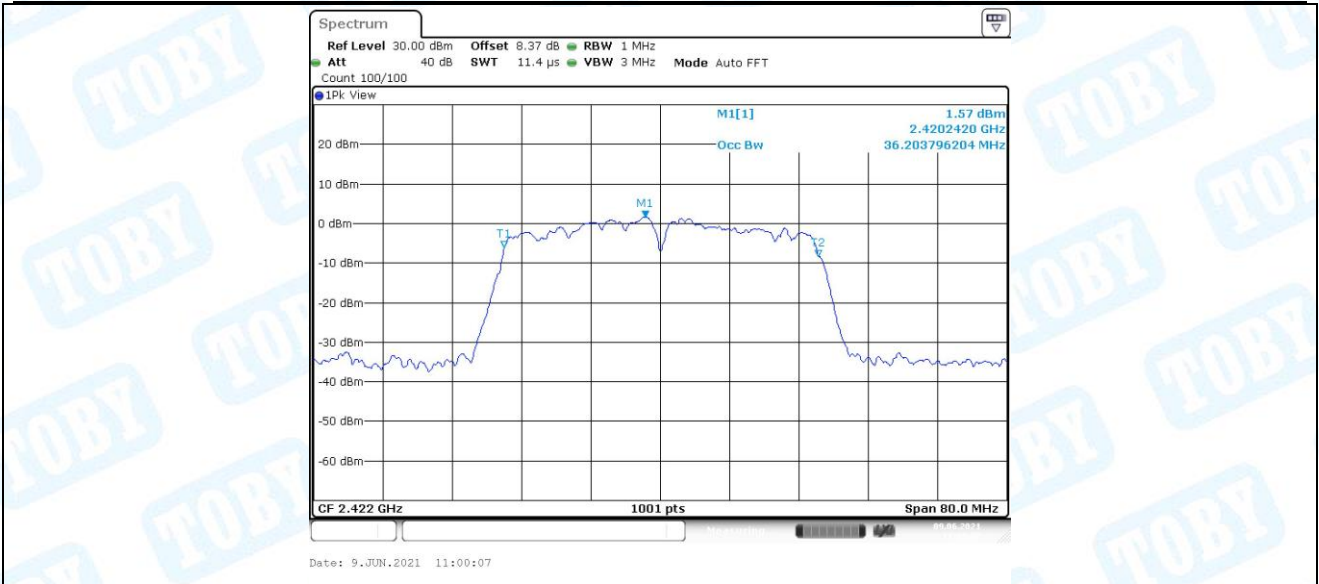
Date: 9. JUN. 2021 10:51:03

11N20SISO_Ant1_2462

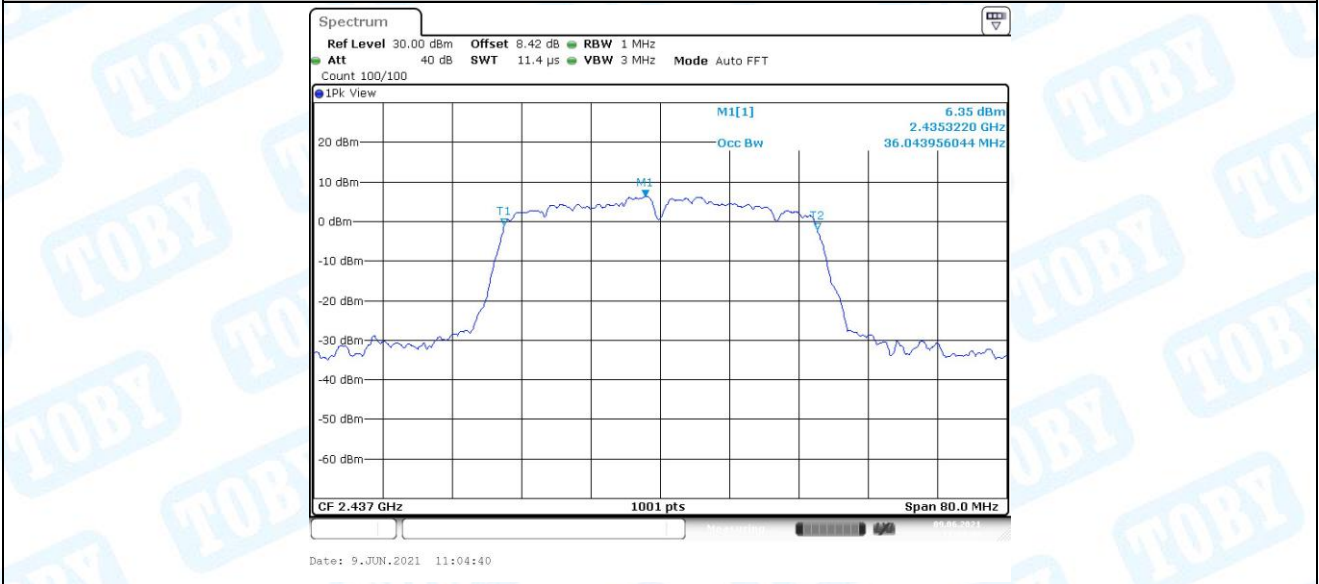


Date: 9. JUN. 2021 10:53:12

11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



3. Maximum conducted output power

3.1. Test Result

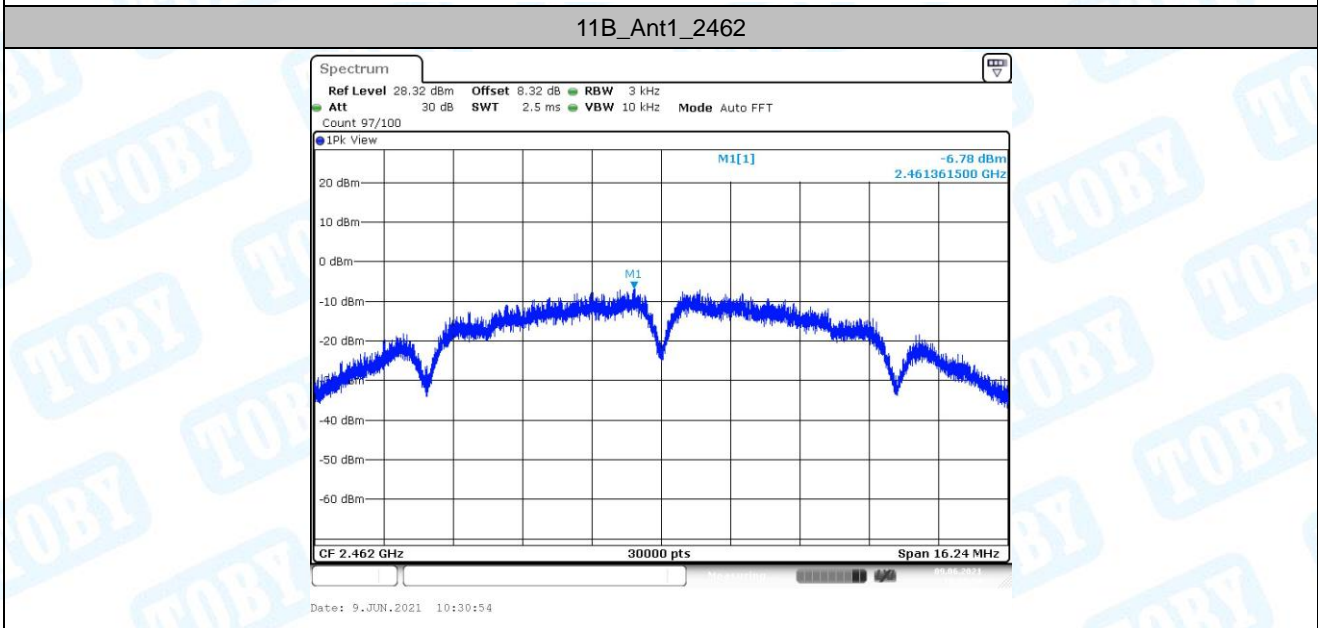
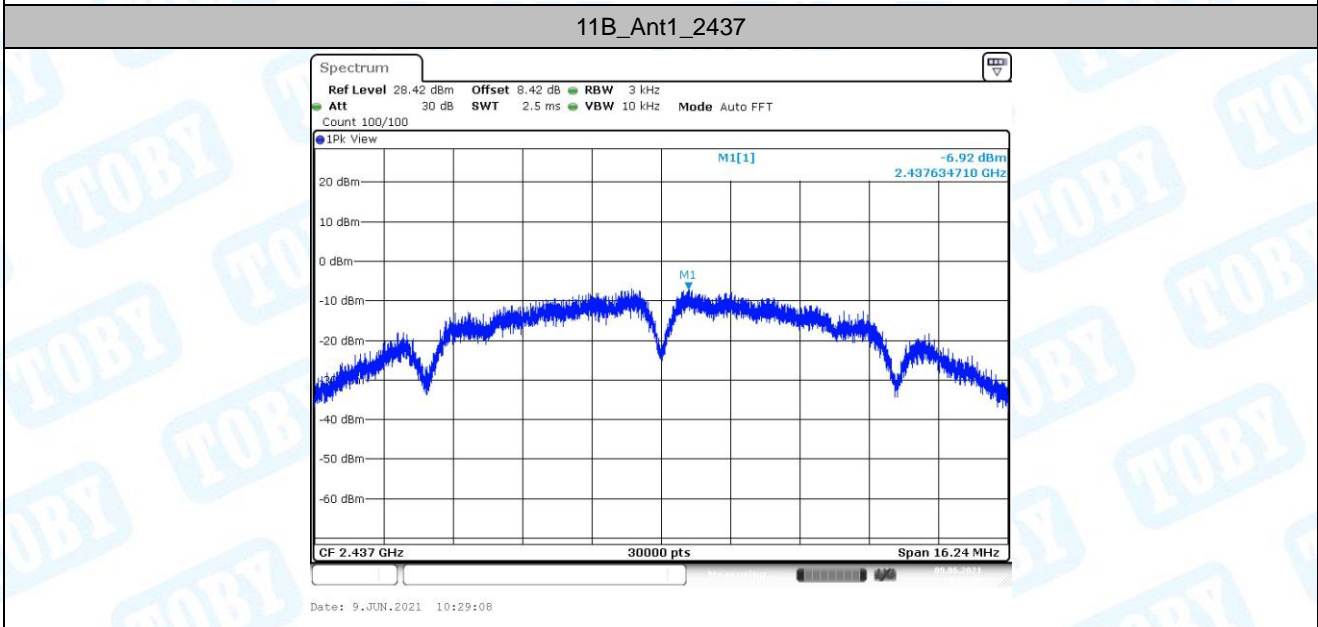
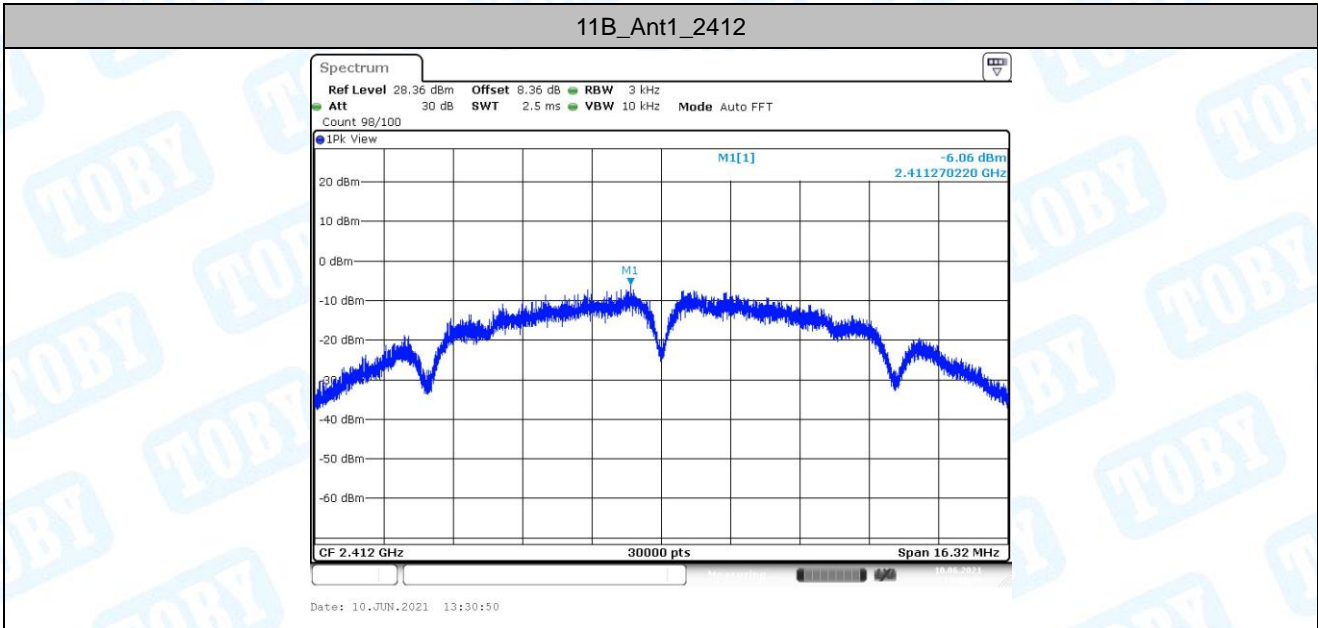
TestMode	Antenna	Channel	Power [dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.42	<=30	19.70	<=36	PASS
		2437	18.60	<=30	19.88	<=36	PASS
		2462	18.52	<=30	19.80	<=36	PASS
11G	Ant1	2412	18.13	<=30	19.41	<=36	PASS
		2437	18.75	<=30	20.03	<=36	PASS
		2462	18.45	<=30	19.73	<=36	PASS
11N20SISO	Ant1	2412	17.76	<=30	19.04	<=36	PASS
		2437	16.20	<=30	17.48	<=36	PASS
		2462	18.50	<=30	19.78	<=36	PASS
11N40SISO	Ant1	2422	16.13	<=30	17.41	<=36	PASS
		2437	16.50	<=30	17.78	<=36	PASS
		2452	16.32	<=30	17.60	<=36	PASS

4. Maximum power spectral density

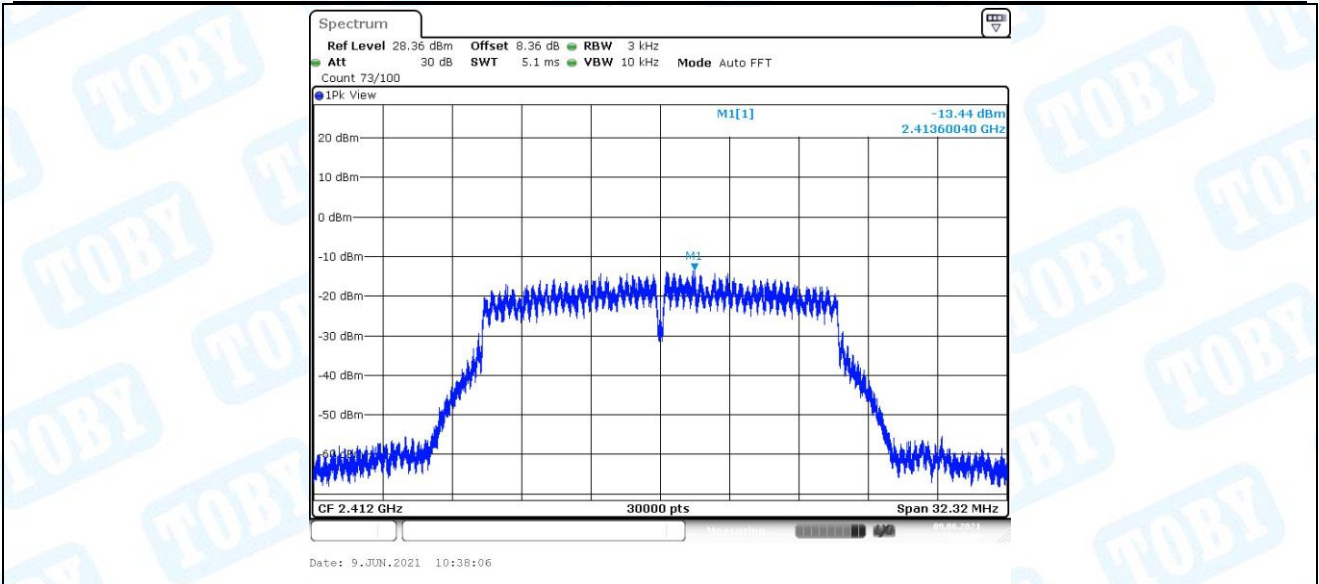
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.06	<=8	PASS
		2437	-6.92	<=8	PASS
		2462	-6.78	<=8	PASS
11G	Ant1	2412	-13.44	<=8	PASS
		2437	-15.4	<=8	PASS
		2462	-13.78	<=8	PASS
11N20SISO	Ant1	2412	-11.95	<=8	PASS
		2437	-10.78	<=8	PASS
		2462	-11.35	<=8	PASS
11N40SISO	Ant1	2422	-19.43	<=8	PASS
		2437	-17.93	<=8	PASS
		2452	-18.51	<=8	PASS

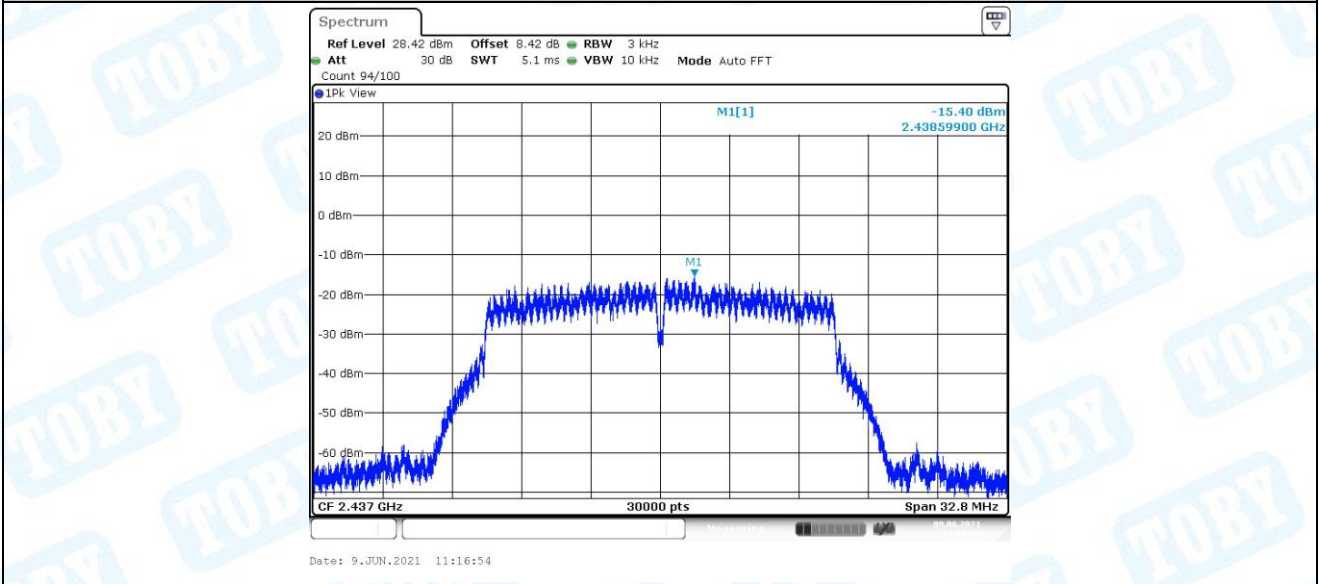
4.2. Test Graphs



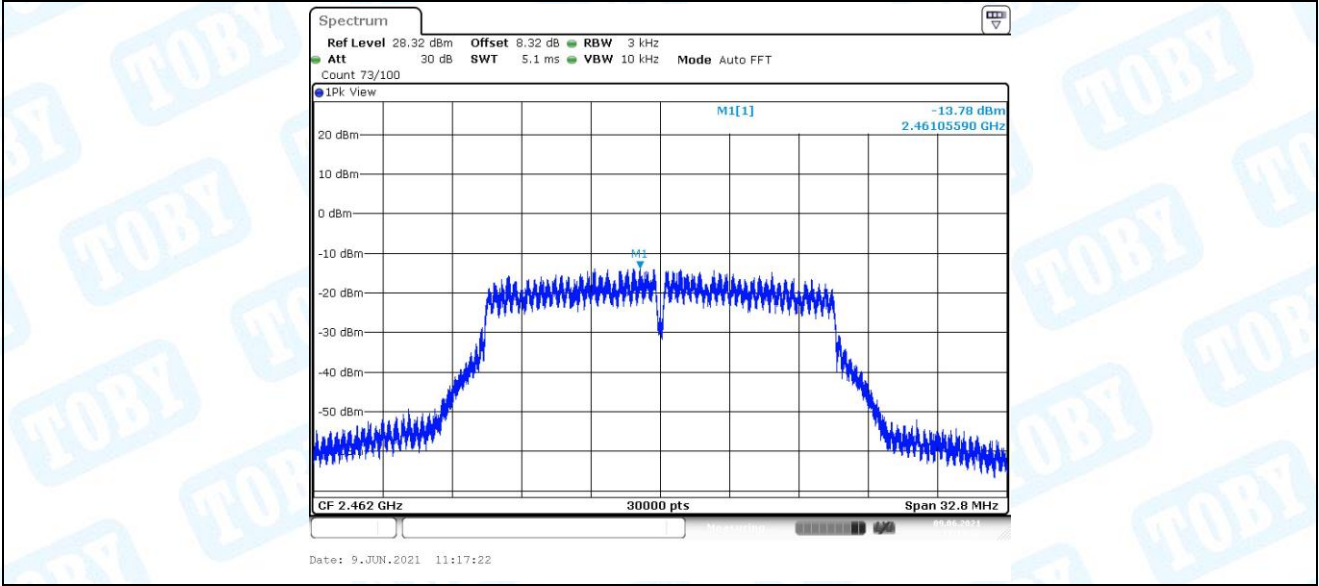
11G_Ant1_2412



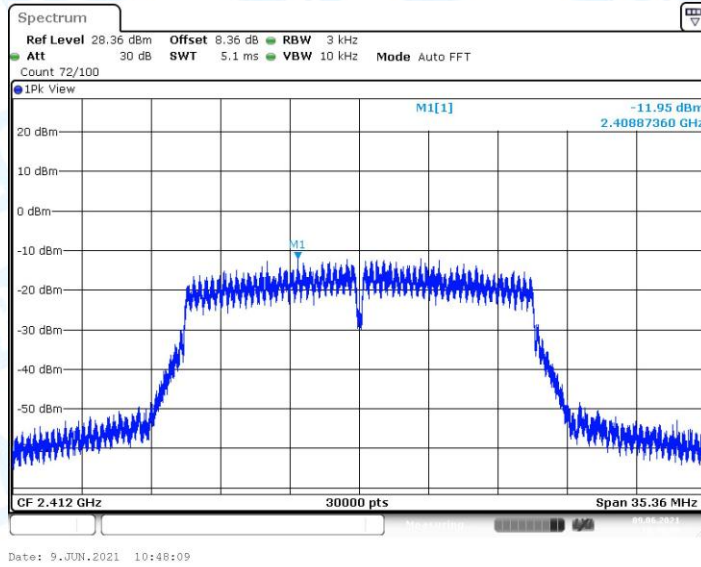
11G_Ant1_2437



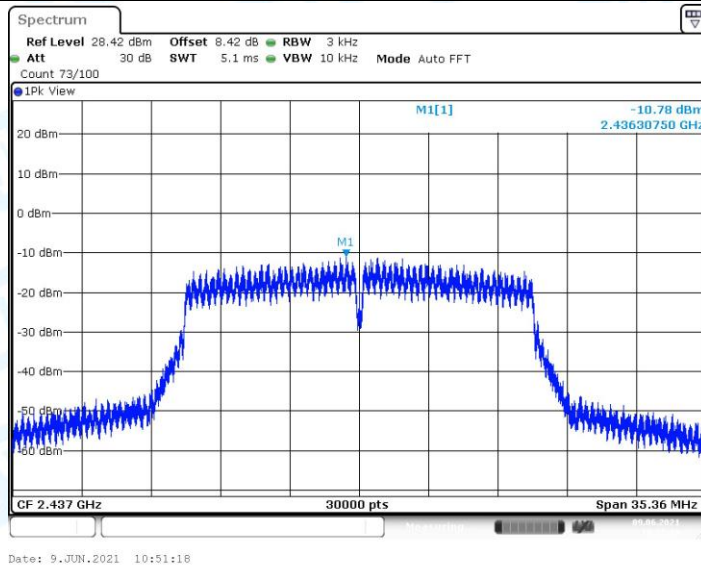
11G_Ant1_2462



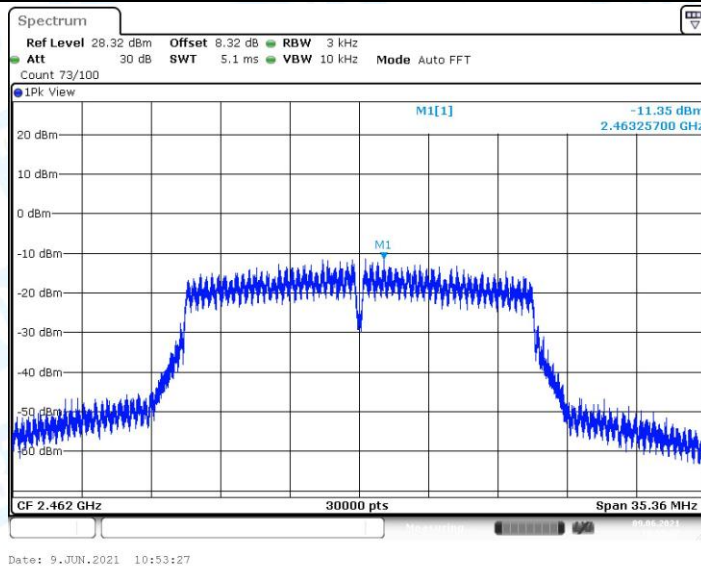
11N20SISO_Ant1_2412



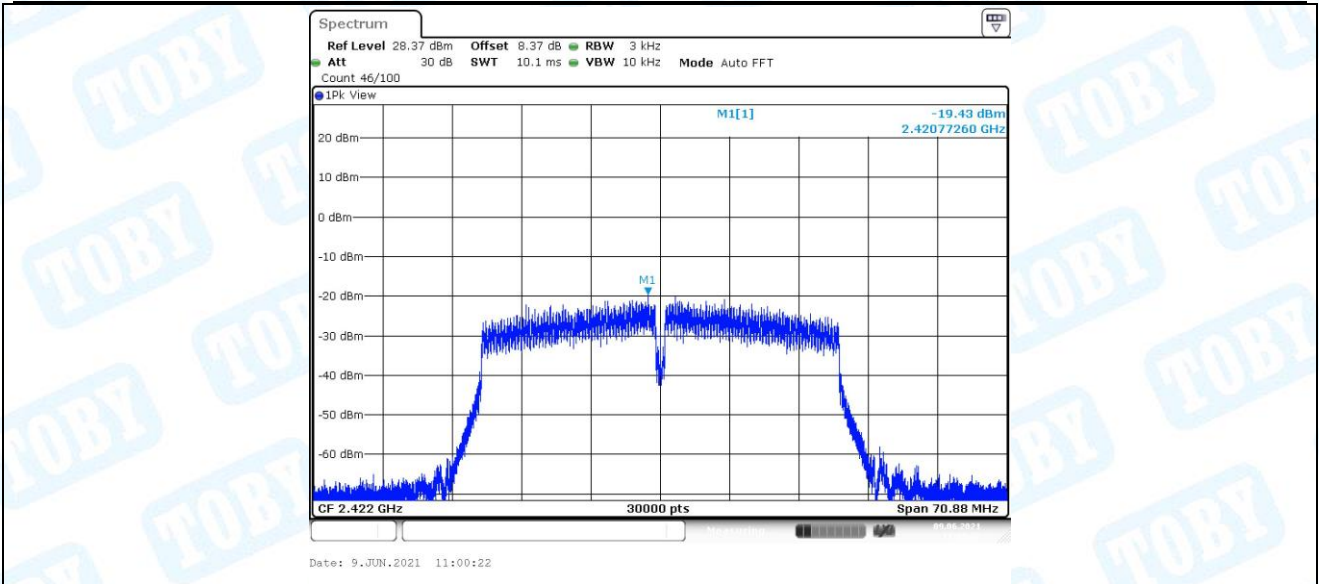
11N20SISO_Ant1_2437



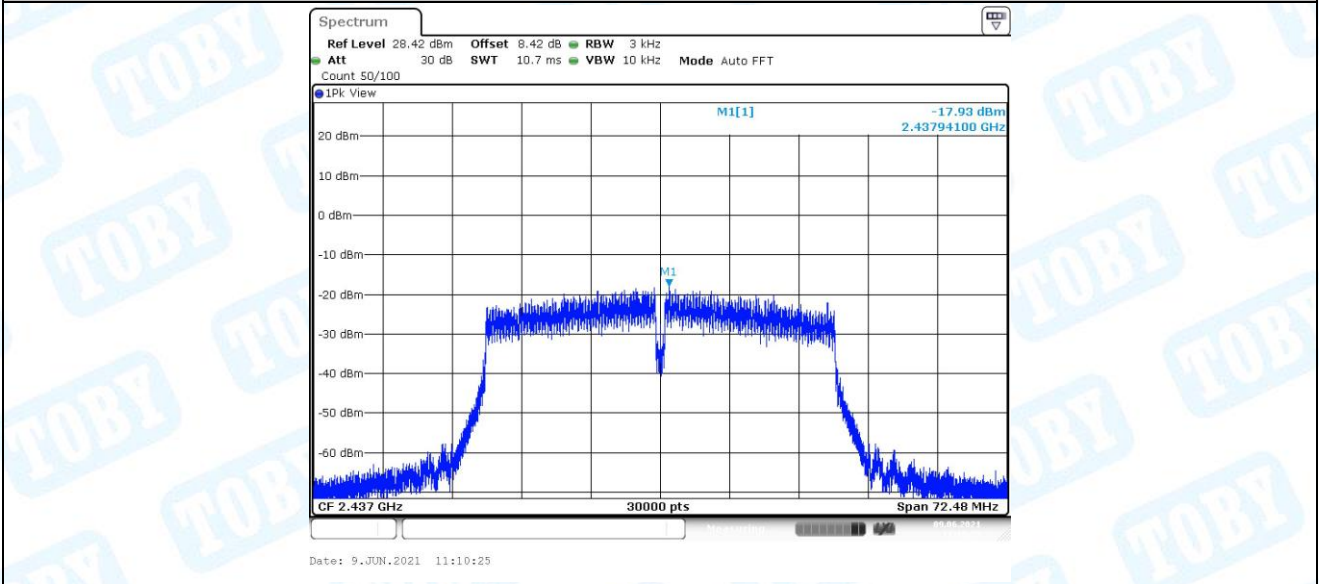
11N20SISO_Ant1_2462



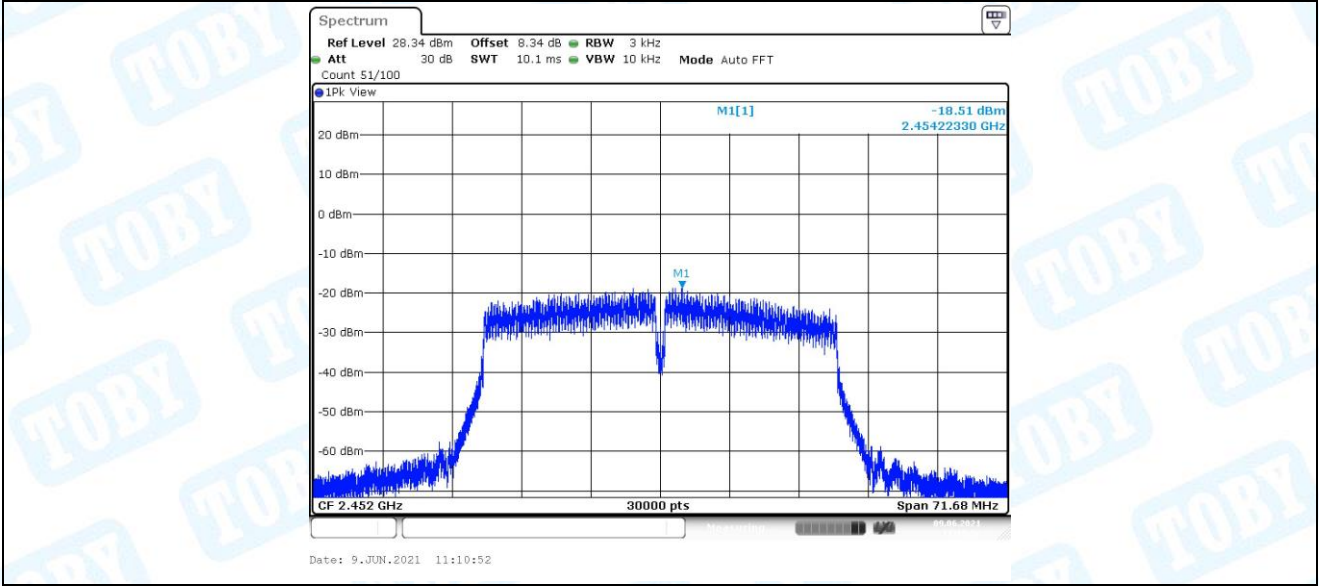
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

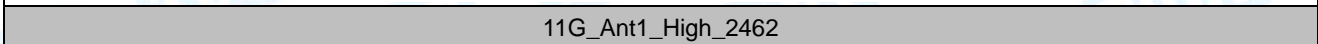
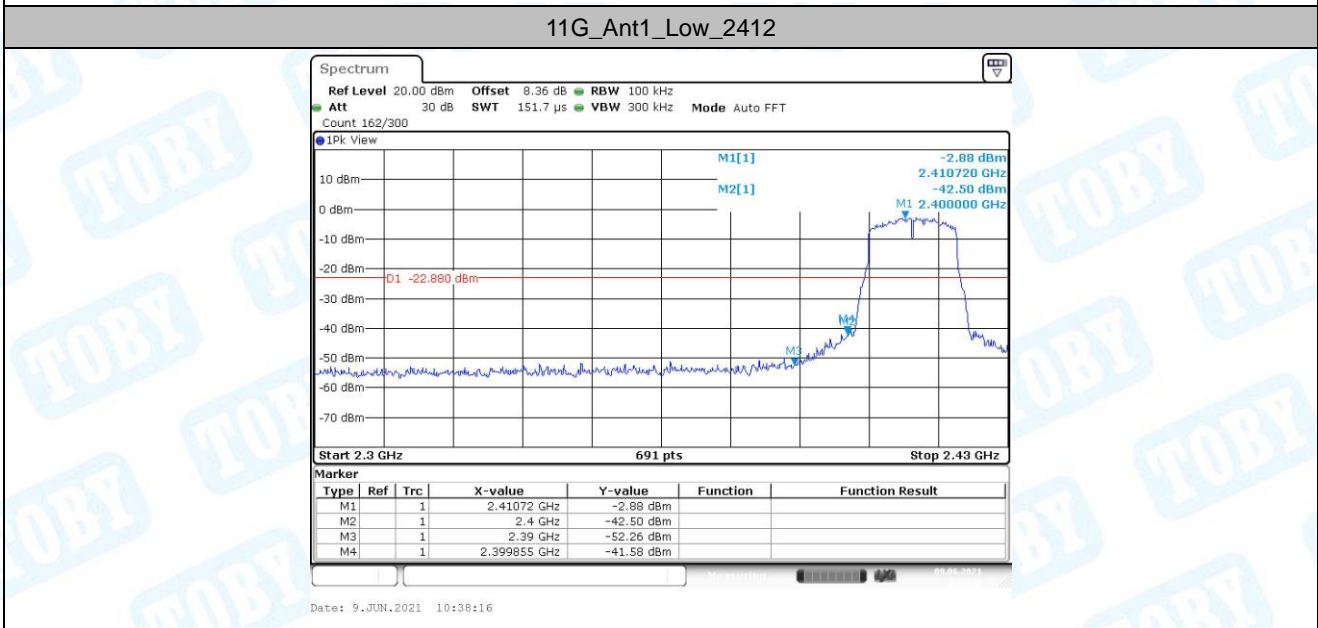
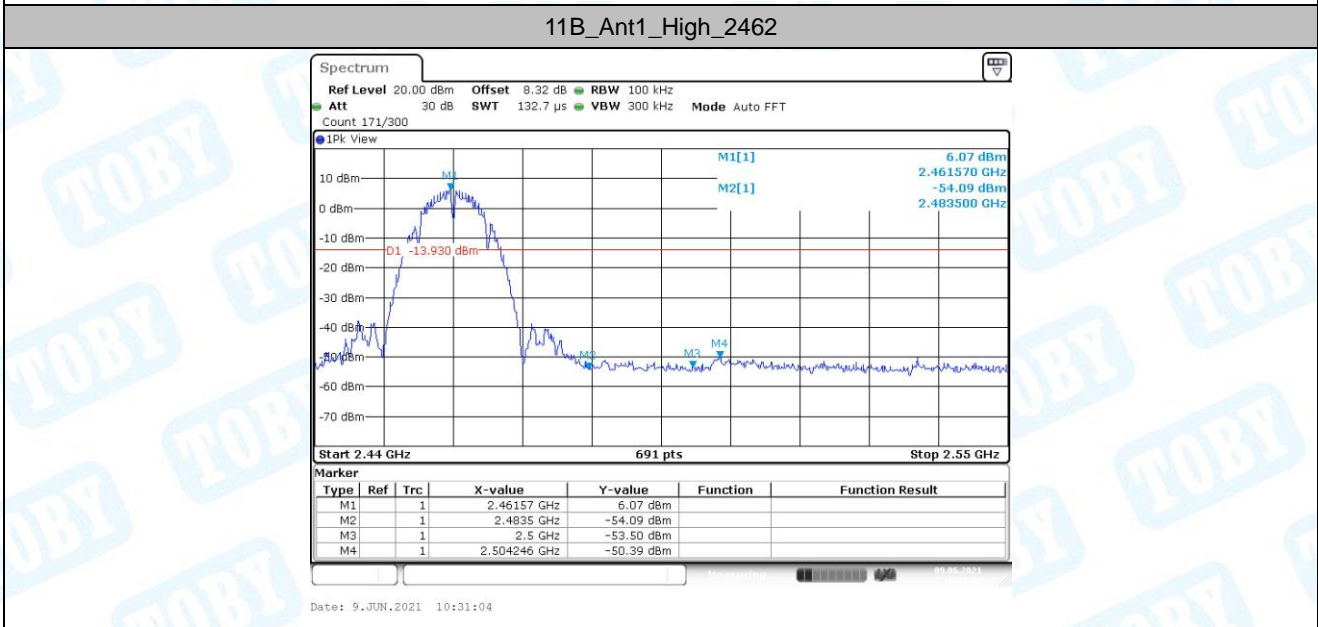
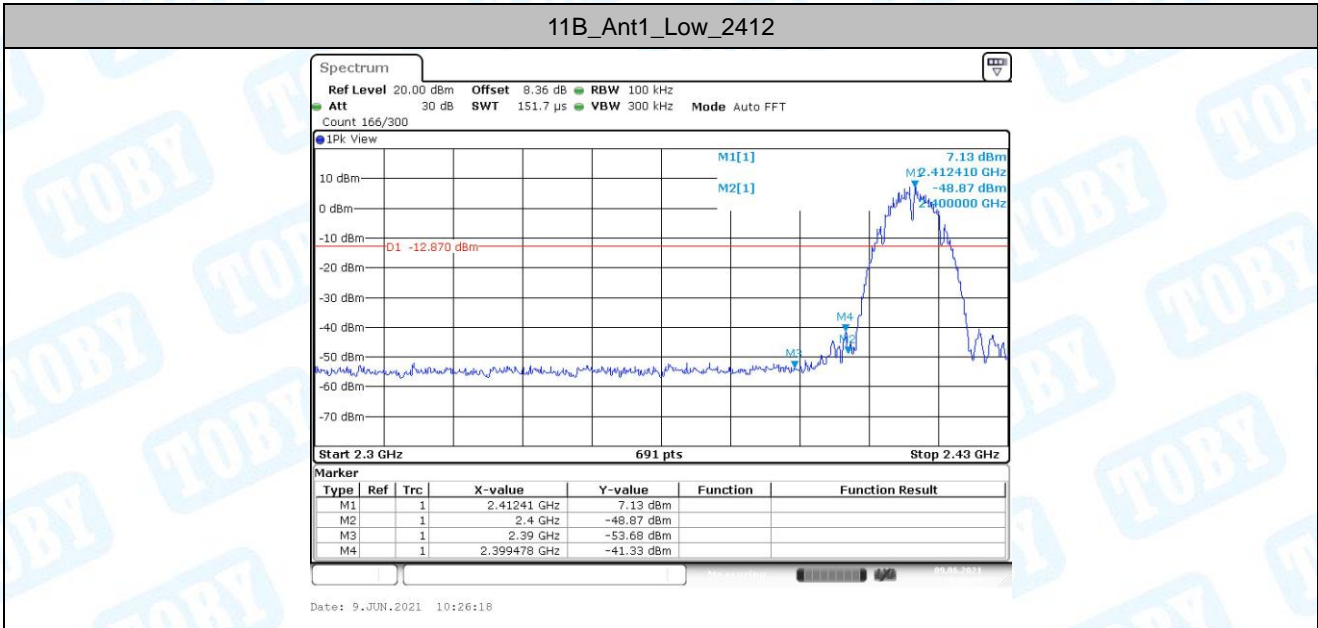


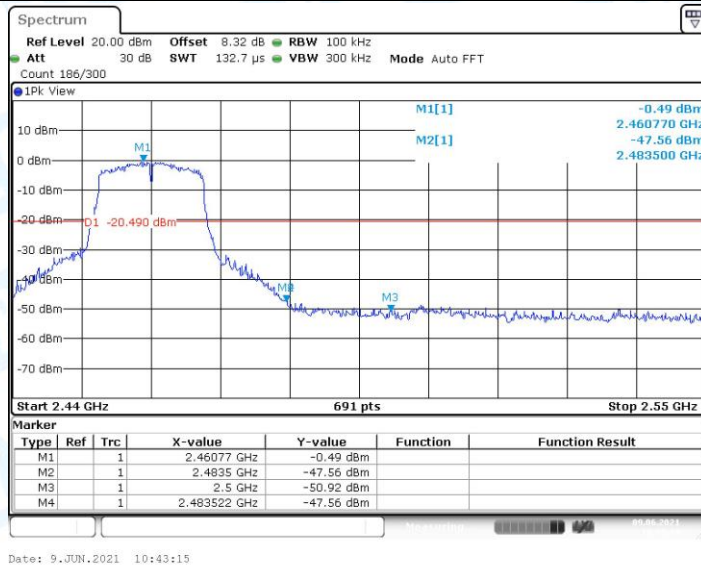
5. Band edge measurements

5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.13	-41.33	<=-12.87	PASS
		High	2462	6.07	-50.39	<=-13.93	PASS
11G	Ant1	Low	2412	-2.88	-41.58	<=-22.88	PASS
		High	2462	-0.49	-47.56	<=-20.49	PASS
11N20SISO	Ant1	Low	2412	-0.88	-35.96	<=-20.88	PASS
		High	2462	-0.29	-45.93	<=-20.29	PASS
11N40SISO	Ant1	Low	2422	-8.91	-48.87	<=-28.91	PASS
		High	2452	-3.88	-42.21	<=-23.88	PASS

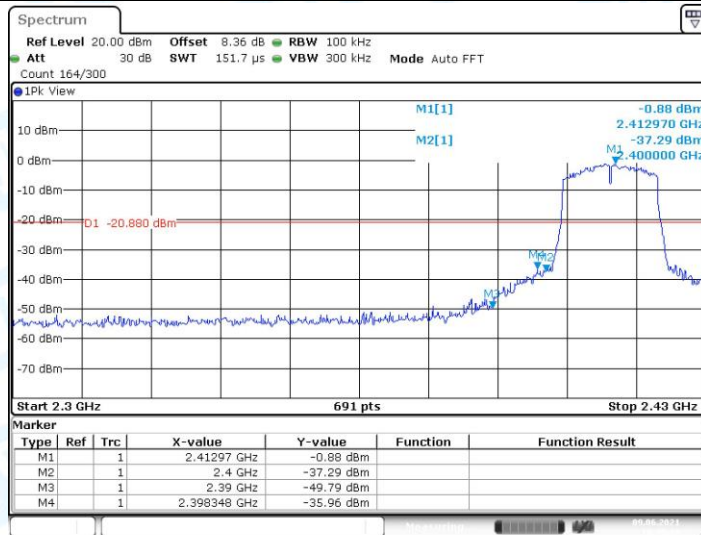
5.2. Test Graphs





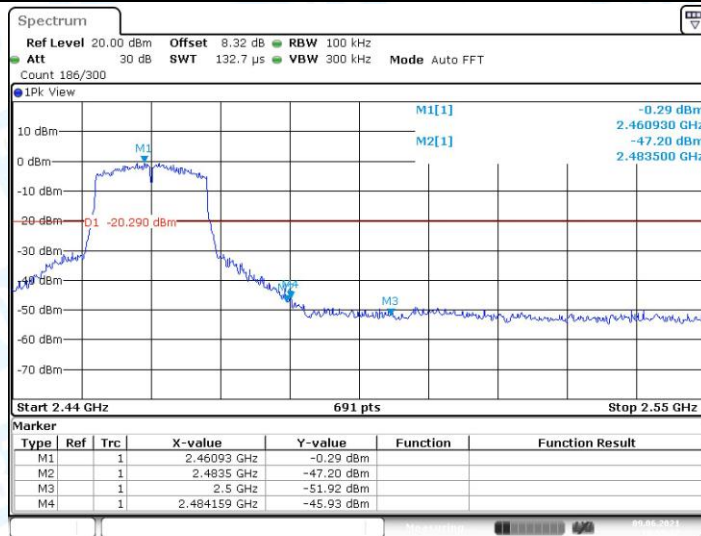
Date: 9.JUN.2021 10:43:15

11N20SISO_Ant1_Low_2412



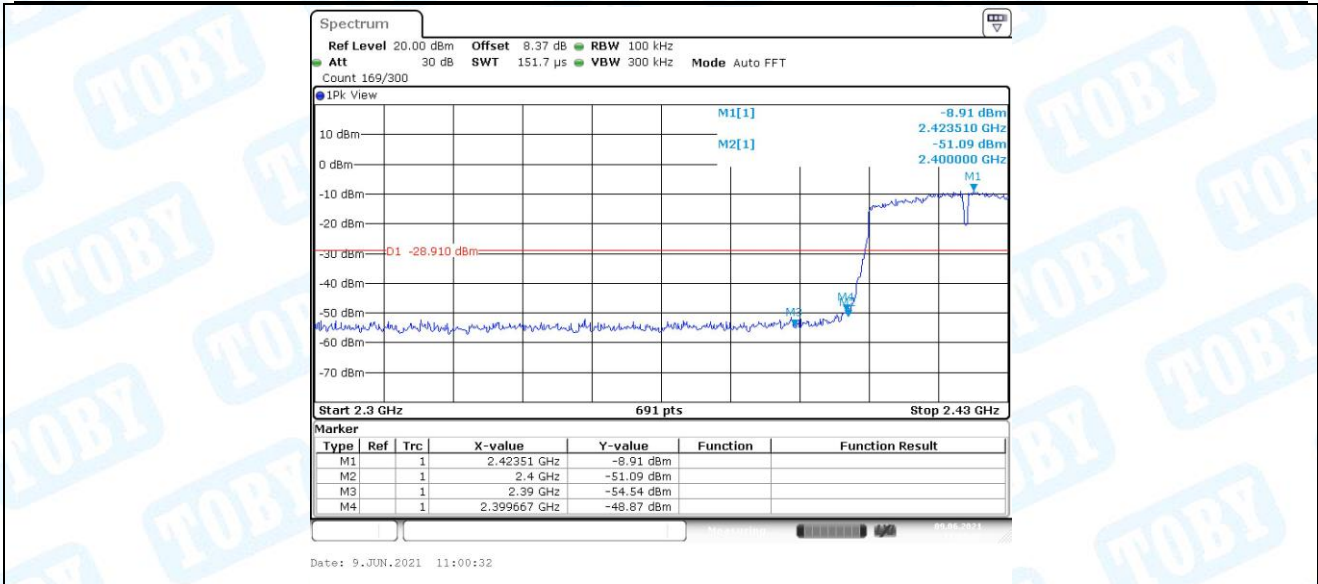
Date: 9.JUN.2021 10:48:19

11N20SISO_Ant1_High_2462

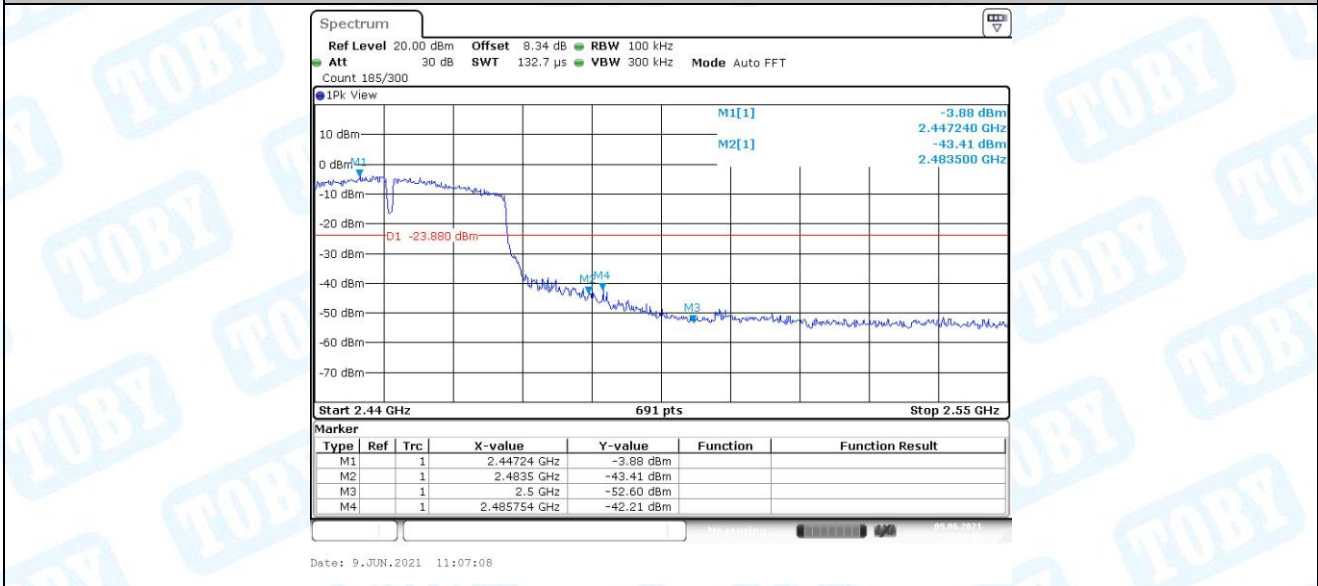


Date: 9.JUN.2021 10:53:37

11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

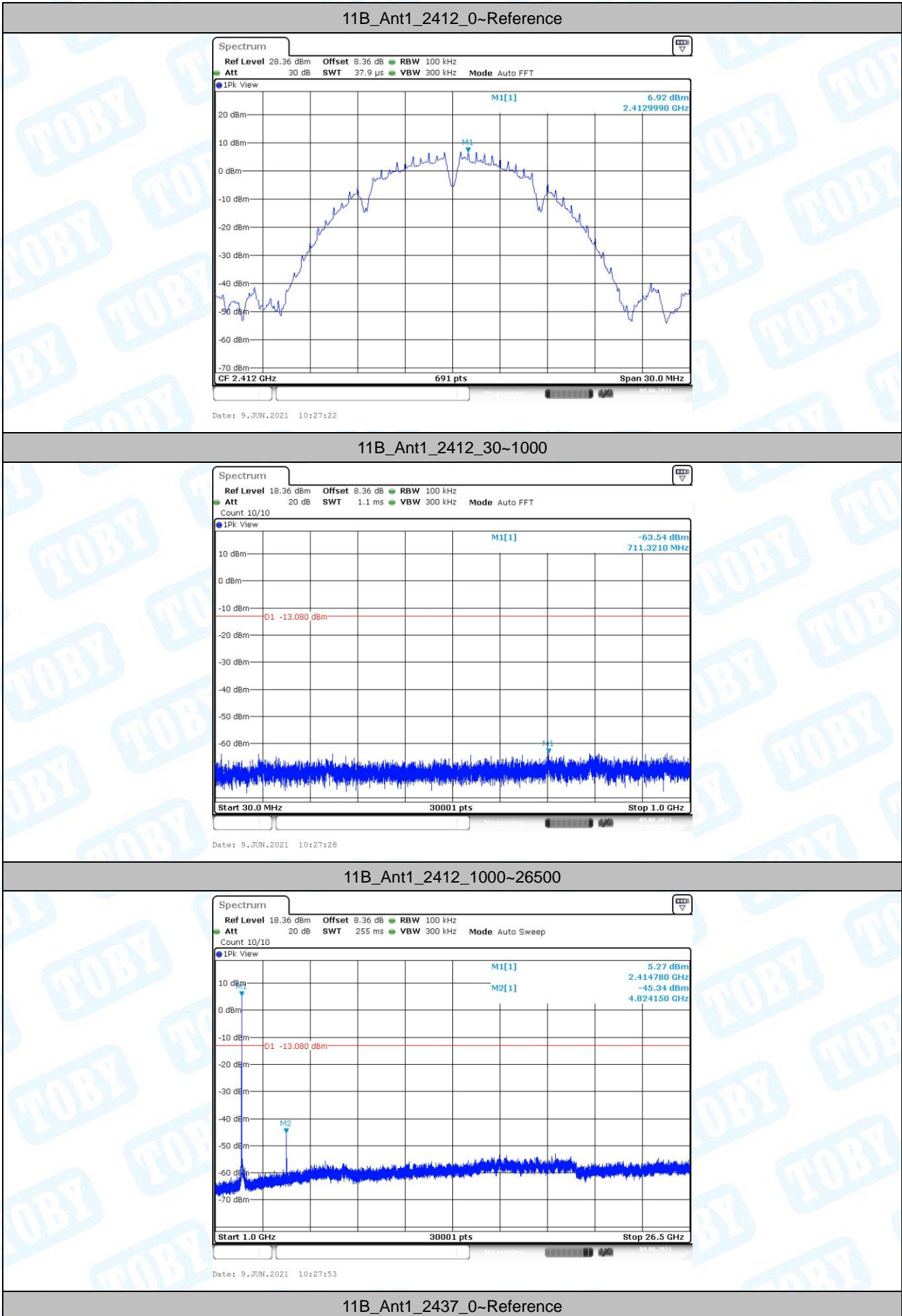


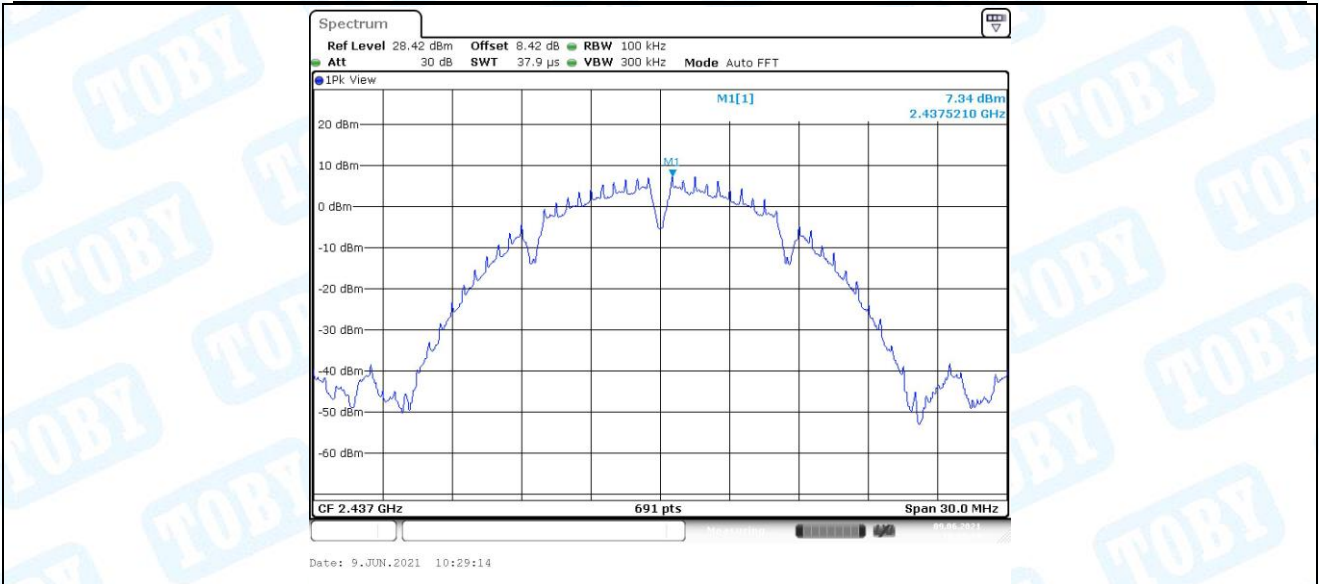
6. Conducted Spurious Emission

6.1. Test Result

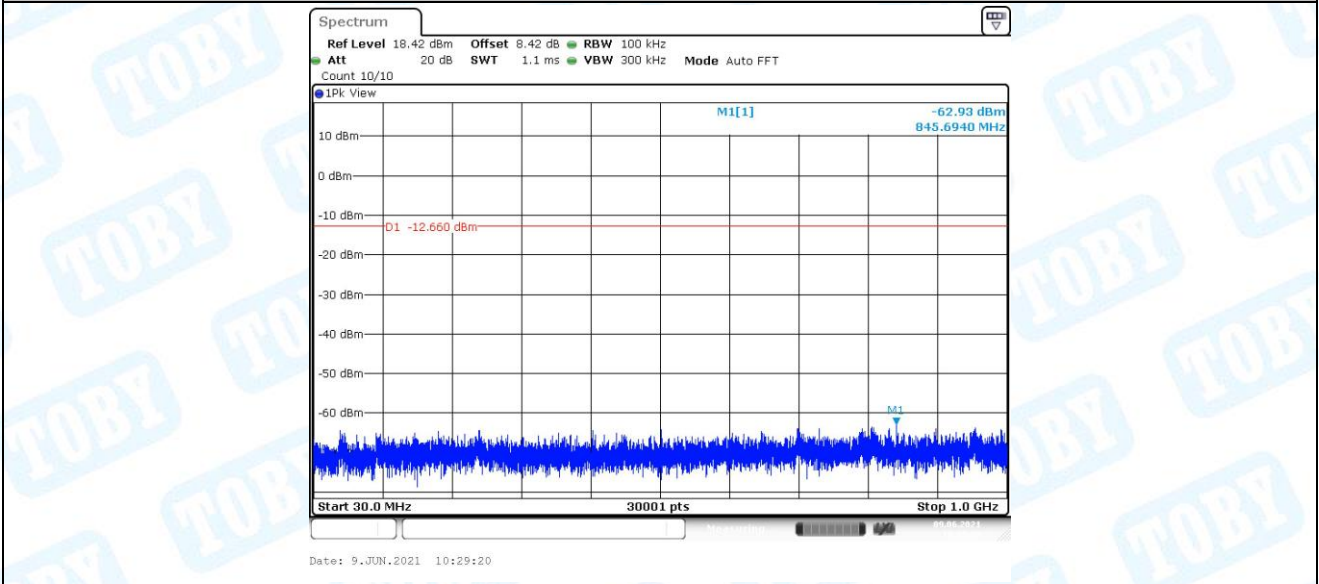
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.92	6.92	---	PASS
			30~1000	6.92	-63.54	<=-13.08	PASS
			1000~26500	6.92	-45.34	<=-13.08	PASS
		2437	Reference	7.34	7.34	---	PASS
			30~1000	7.34	-62.93	<=-12.66	PASS
			1000~26500	7.34	-46.34	<=-12.66	PASS
		2462	Reference	6.74	6.74	---	PASS
			30~1000	6.74	-63.09	<=-13.26	PASS
			1000~26500	6.74	-47.2	<=-13.26	PASS
11G	Ant1	2412	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-61.91	<=-18.91	PASS
			1000~26500	1.09	-53.6	<=-18.91	PASS
		2437	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-62.95	<=-19.64	PASS
			1000~26500	0.36	-53.31	<=-19.64	PASS
		2462	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-62.98	<=-20.07	PASS
			1000~26500	-0.07	-53.1	<=-20.07	PASS
11N20SISO	Ant1	2412	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-62.48	<=-20.71	PASS
			1000~26500	-0.71	-53.57	<=-20.71	PASS
		2437	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-62.23	<=-20.16	PASS
			1000~26500	-0.16	-53.14	<=-20.16	PASS
		2462	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-62.78	<=-20.63	PASS
			1000~26500	-0.63	-52.59	<=-20.63	PASS
11N40SISO	Ant1	2422	Reference	-8.94	-8.94	---	PASS
			30~1000	-8.94	-63.06	<=-28.94	PASS
			1000~26500	-8.94	-53.2	<=-28.94	PASS
		2437	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-61.4	<=-24.02	PASS
			1000~26500	-4.02	-52.72	<=-24.02	PASS
		2452	Reference	-4.03	-4.03	---	PASS
			30~1000	-4.03	-62.18	<=-24.03	PASS
			1000~26500	-4.03	-52.76	<=-24.03	PASS

6.2. Test Graphs

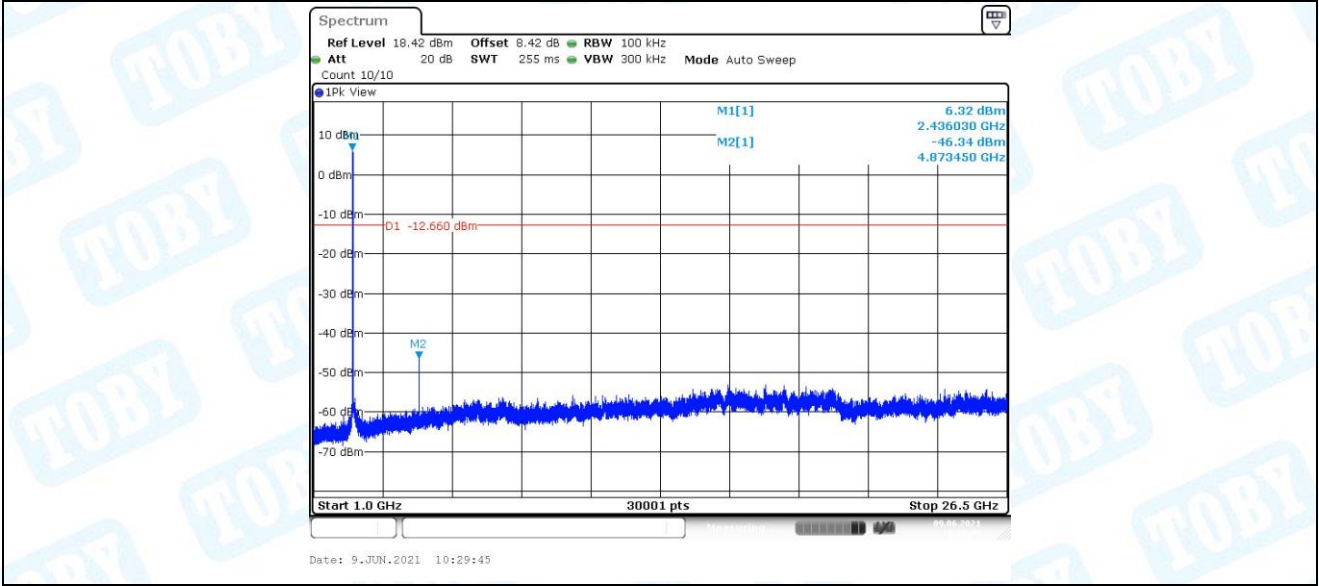




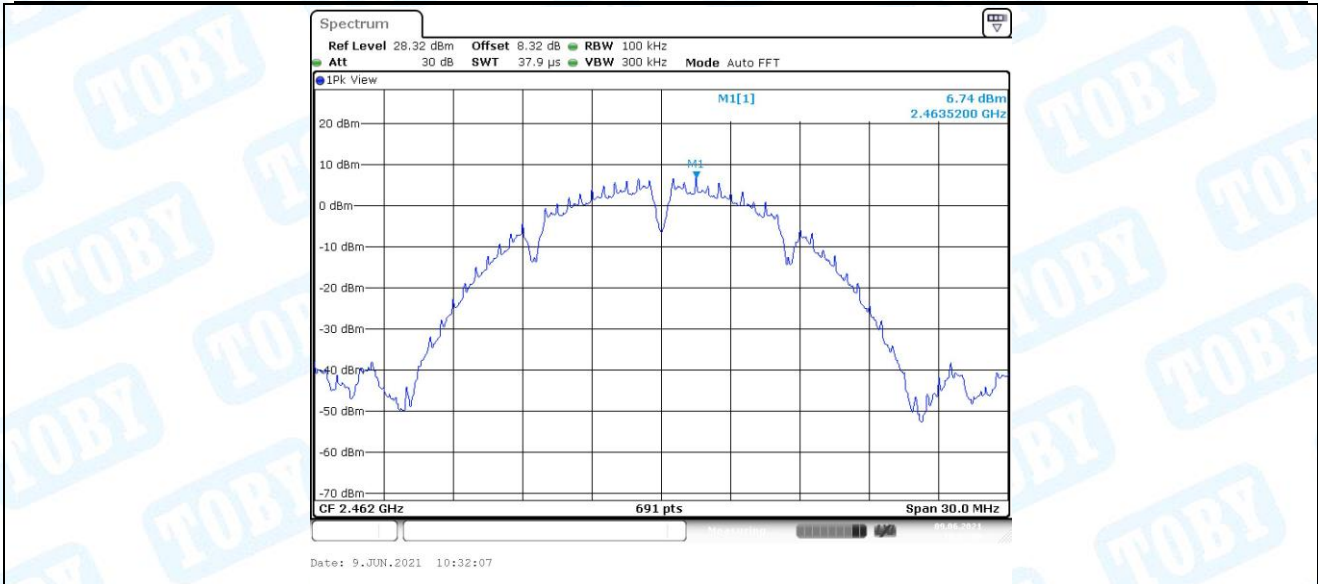
11B_Ant1_2437_30~1000



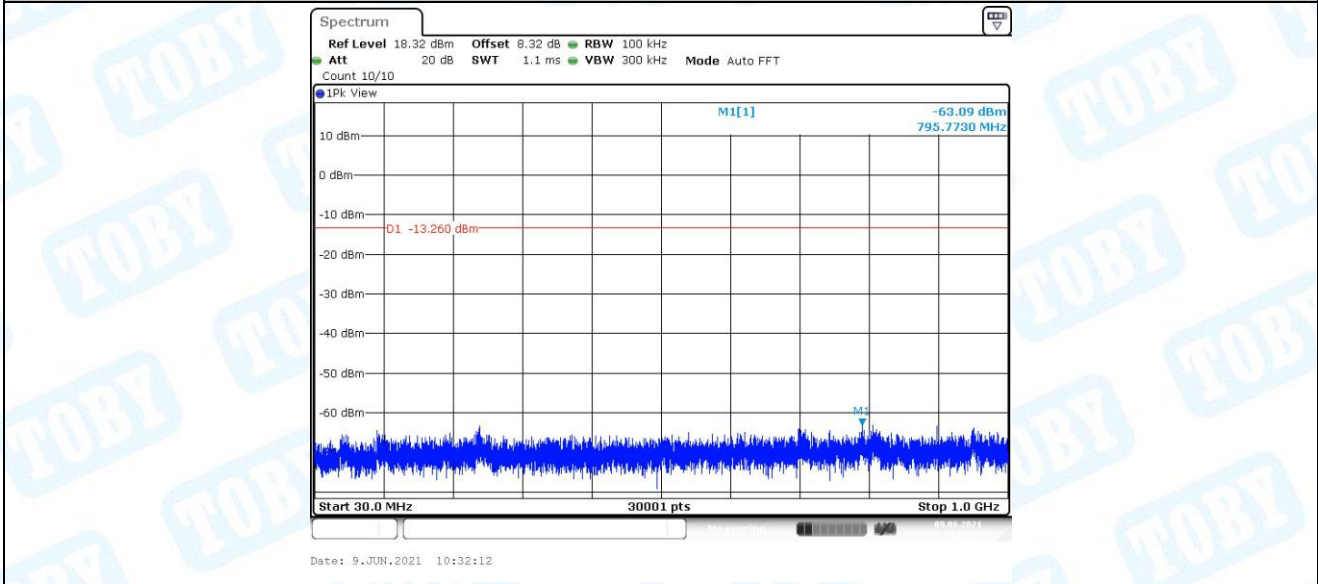
11B_Ant1_2437_1000~26500



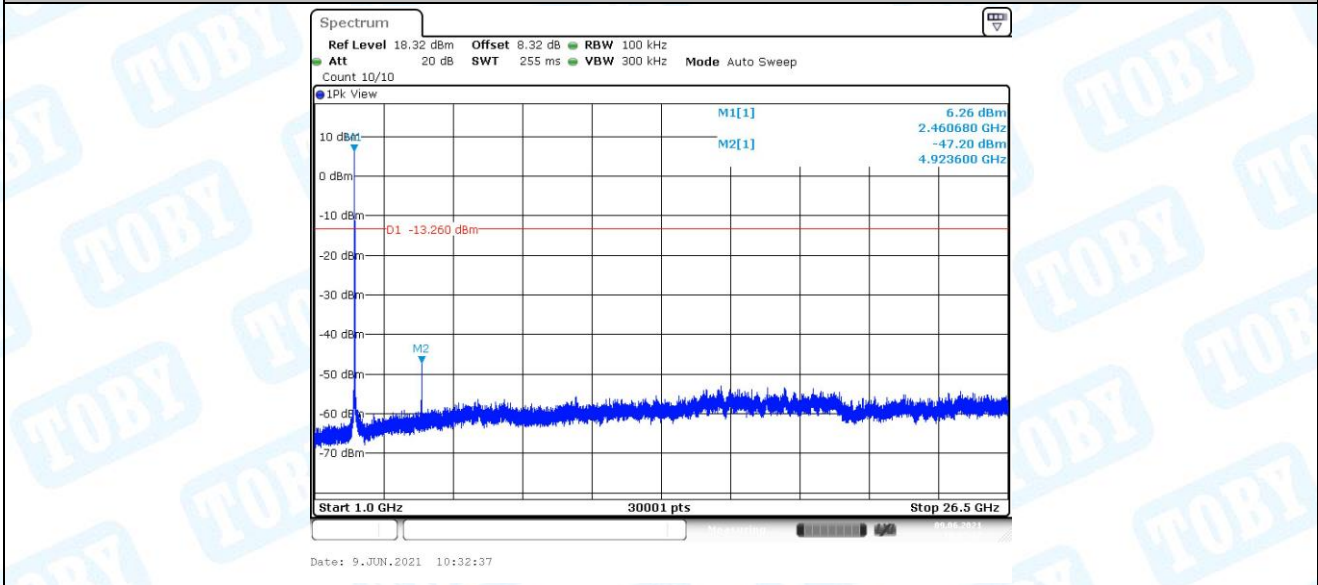
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference