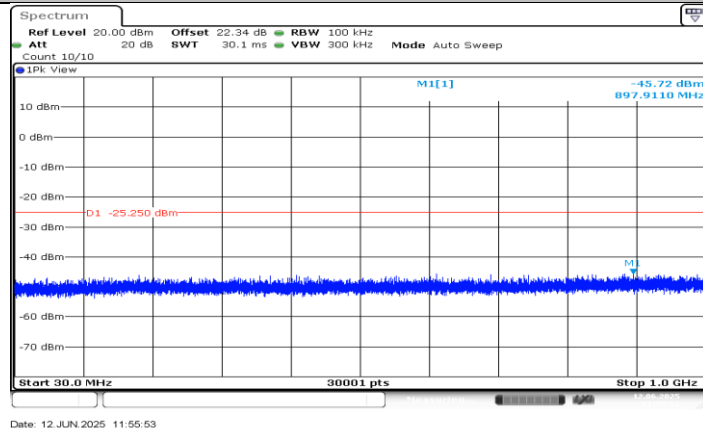
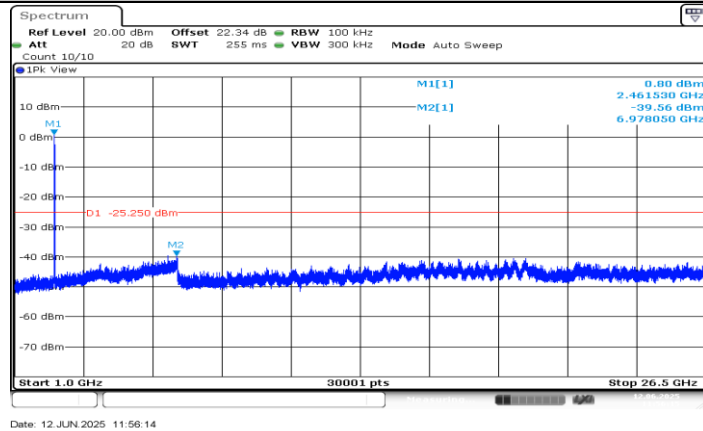


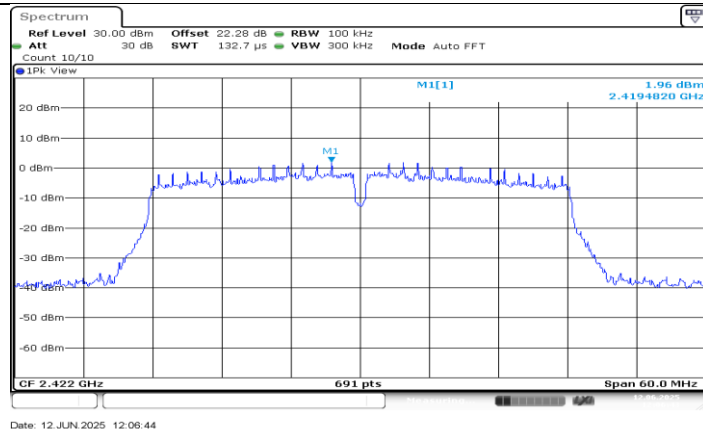
11N20SISO\_Ant0\_2462\_0~Reference



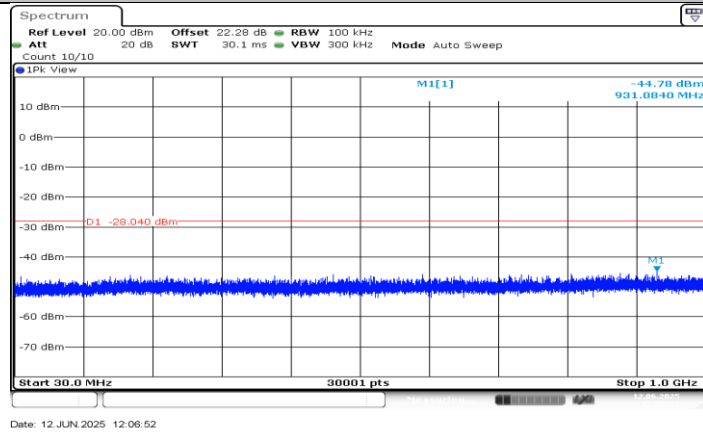
11N20SISO\_Ant0\_2462\_30~1000



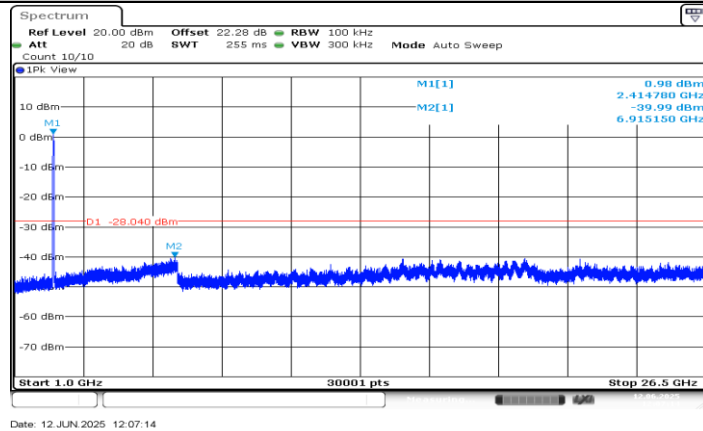
11N20SISO\_Ant0\_2462\_1000~26500



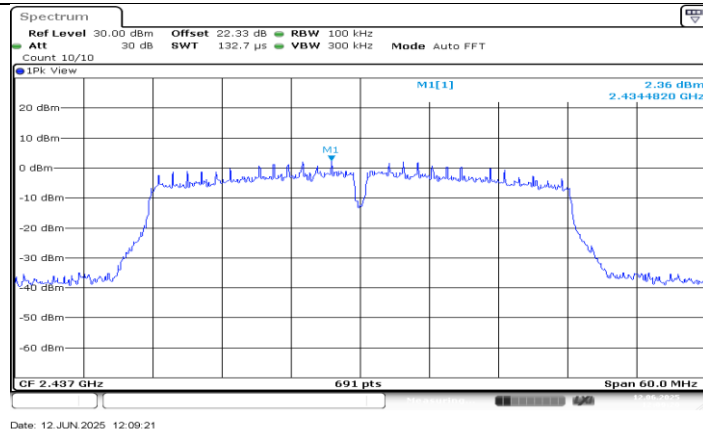
#### 11N40SISO\_Ant0\_2422\_0~Reference



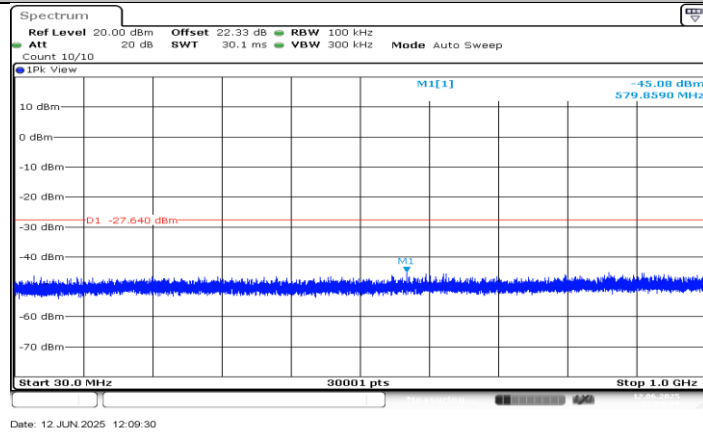
#### 11N40SISO\_Ant0\_2422\_30~1000



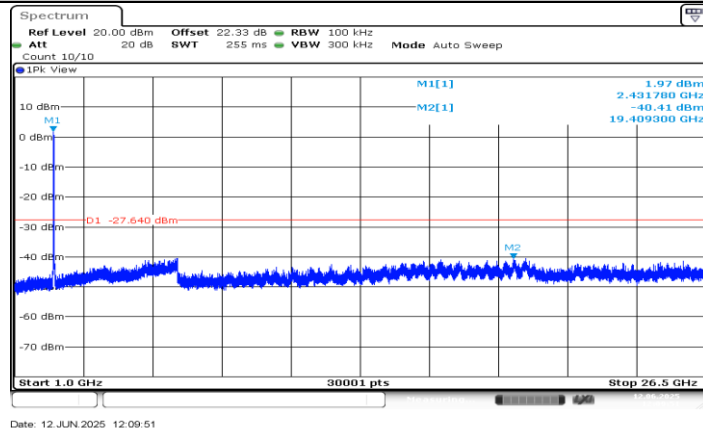
#### 11N40SISO\_Ant0\_2422\_1000~26500



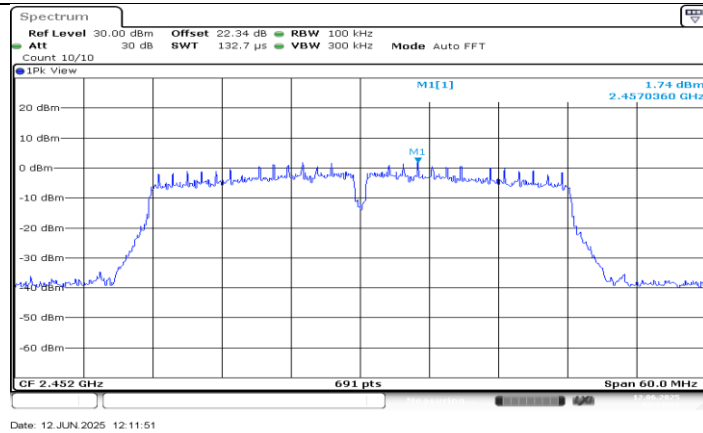
11N40SISO\_Ant0\_2437\_0~Reference



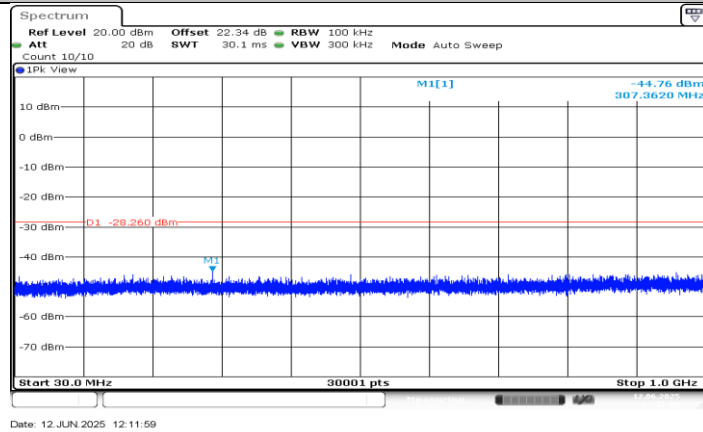
11N40SISO\_Ant0\_2437\_30~1000



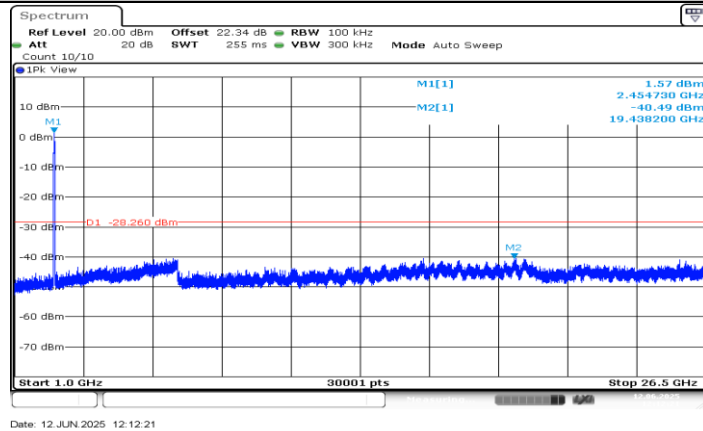
11N40SISO\_Ant0\_2437\_1000~26500



11N40SISO\_Ant0\_2452\_0~Reference



11N40SISO\_Ant0\_2452\_30~1000



11N40SISO\_Ant0\_2452\_1000~26500

**11.7. APPENDIX G1: DUTY CYCLE****11.7.1. Test Result**

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	8.37	8.41	0.9952	99.52	0.02	0.12	0.01
11G	1.38	1.43	0.9650	96.50	0.15	0.72	1
11N20SISO	1.29	1.33	0.9699	96.99	0.13	0.78	1
11N40SISO	0.64	0.68	0.9412	94.12	0.26	1.56	2

Note:

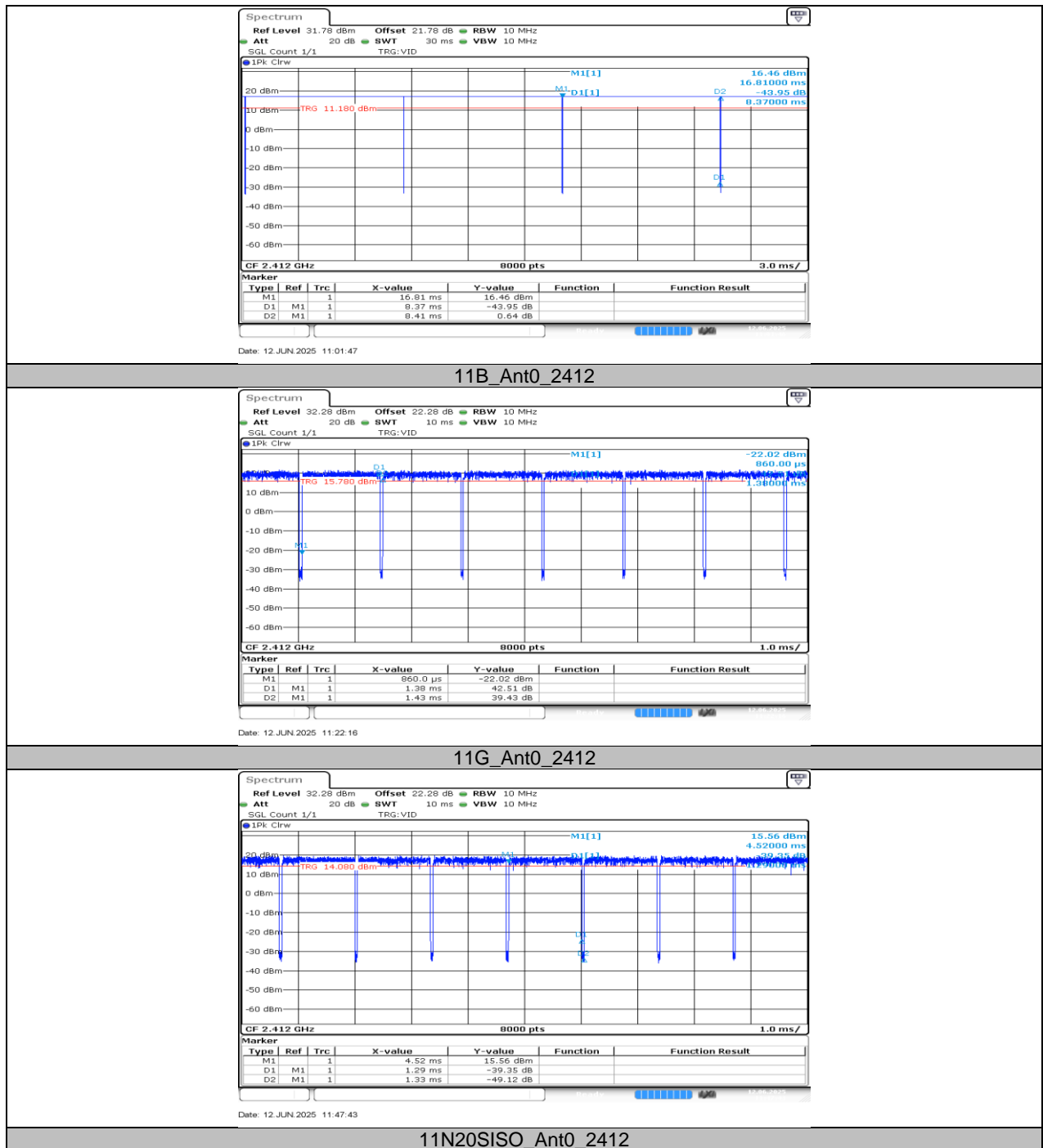
Duty Cycle Correction Factor= $10\log(1/x)$ .

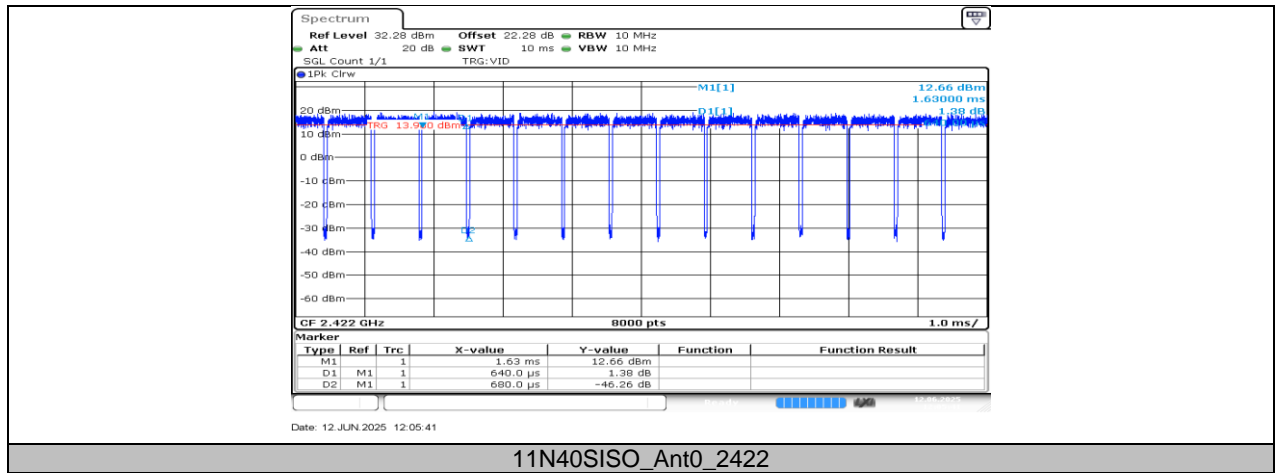
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

## 11.7.2. Test Graphs





## 12. TEST DATA for ANT1

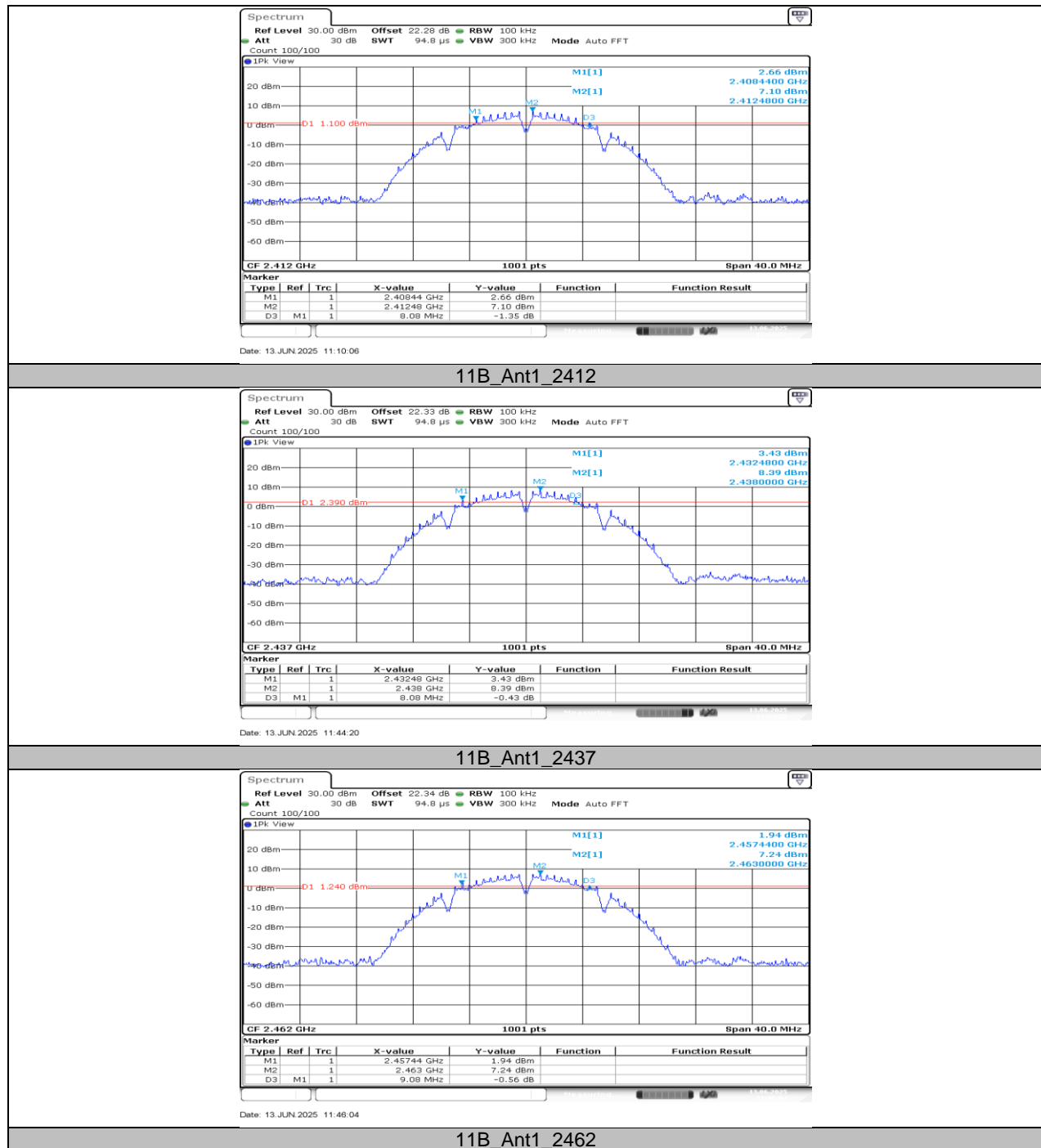
### 12.1. APPENDIX A2: DTS BANDWIDTH

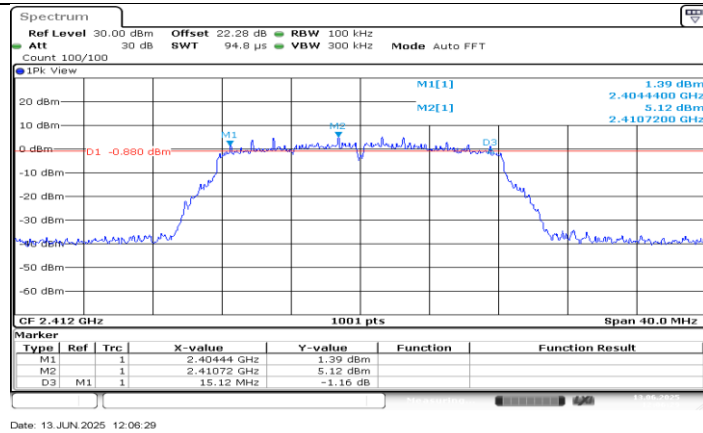
#### 12.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.08	2408.44	2416.52	$\geq 0.5$	PASS
		2437	8.08	2432.48	2440.56	$\geq 0.5$	PASS
		2462	9.08	2457.44	2466.52	$\geq 0.5$	PASS
11G	Ant1	2412	15.12	2404.44	2419.56	$\geq 0.5$	PASS
		2437	15.12	2429.44	2444.56	$\geq 0.5$	PASS
		2462	16.00	2454.12	2470.12	$\geq 0.5$	PASS
11N20SISO	Ant1	2412	15.12	2404.44	2419.56	$\geq 0.5$	PASS
		2437	15.12	2429.44	2444.56	$\geq 0.5$	PASS
		2462	15.08	2454.44	2469.52	$\geq 0.5$	PASS
11N40SISO	Ant1	2422	35.12	2404.48	2439.60	$\geq 0.5$	PASS
		2437	35.12	2419.48	2454.60	$\geq 0.5$	PASS
		2452	35.12	2434.48	2469.60	$\geq 0.5$	PASS

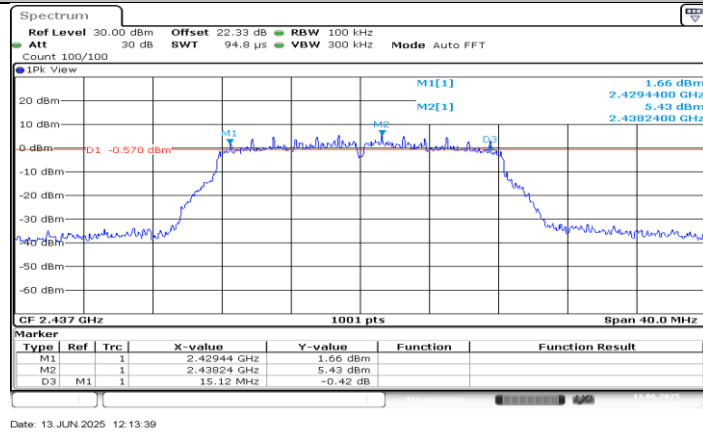


## 12.1.2. Test Graphs

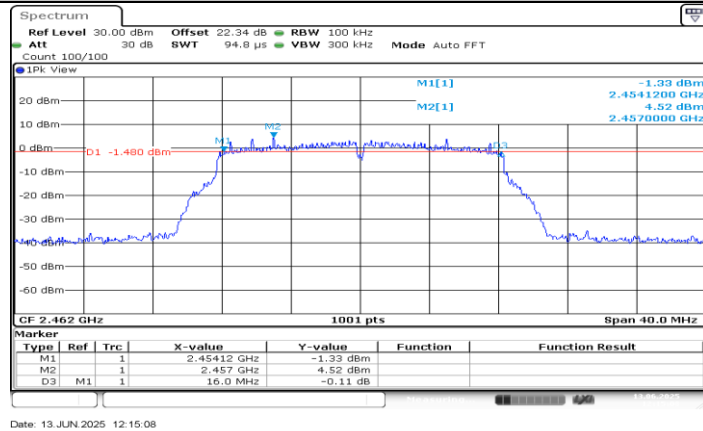




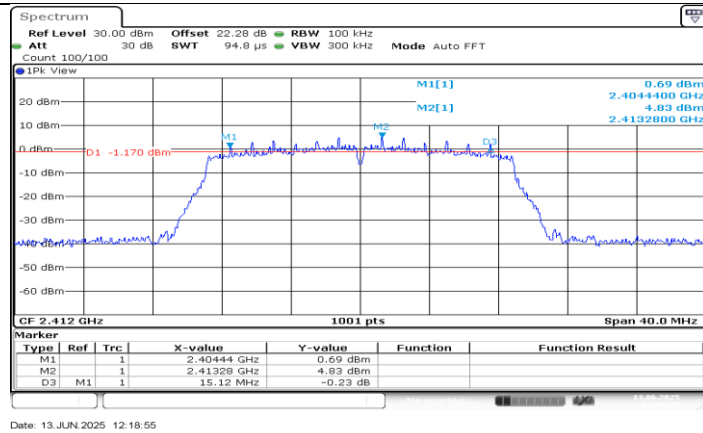
11G\_Ant1\_2412



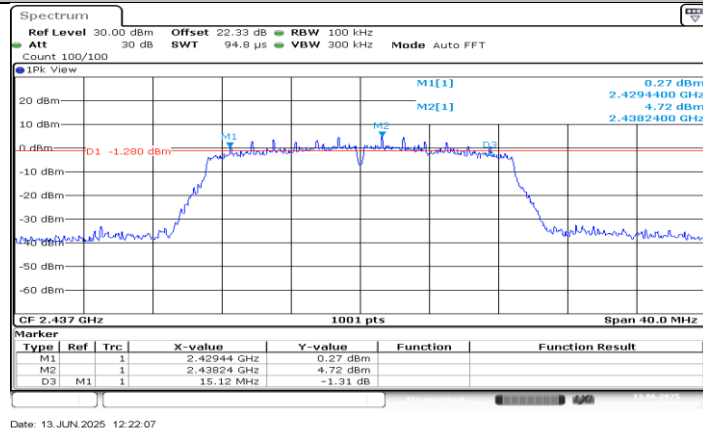
11G\_Ant1\_2437



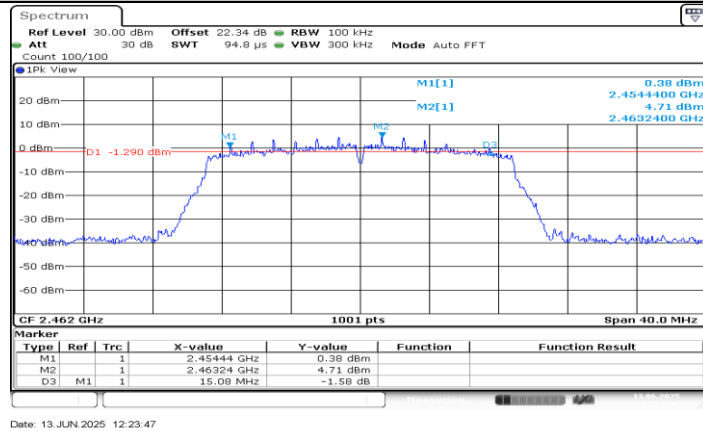
11G\_Ant1\_2462



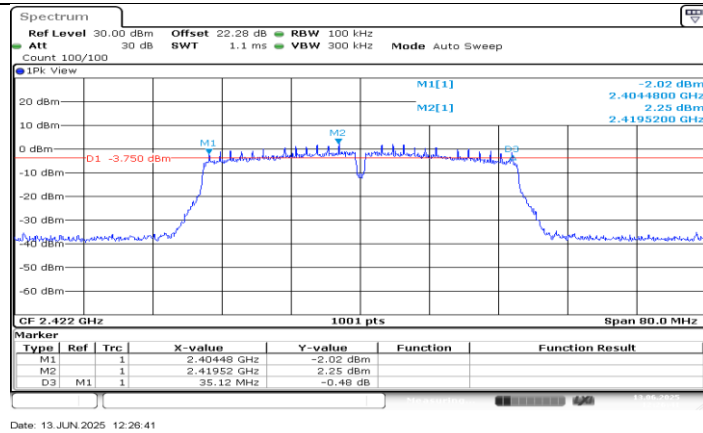
11N20SISO\_Ant1\_2412



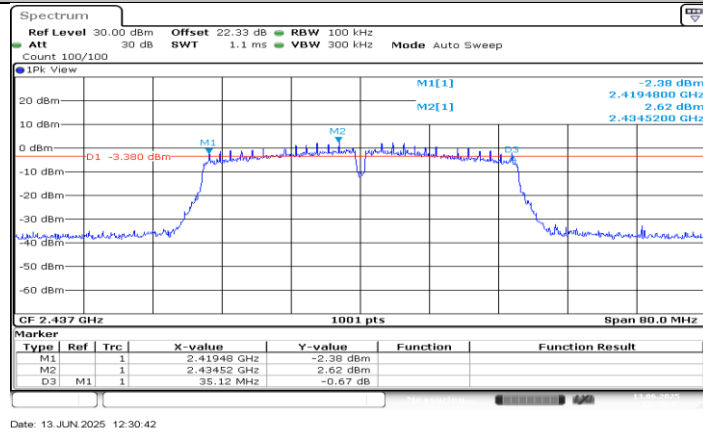
11N20SISO\_Ant1\_2437



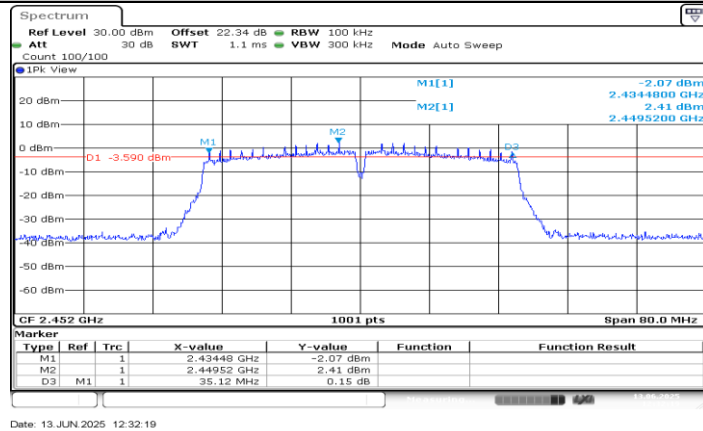
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



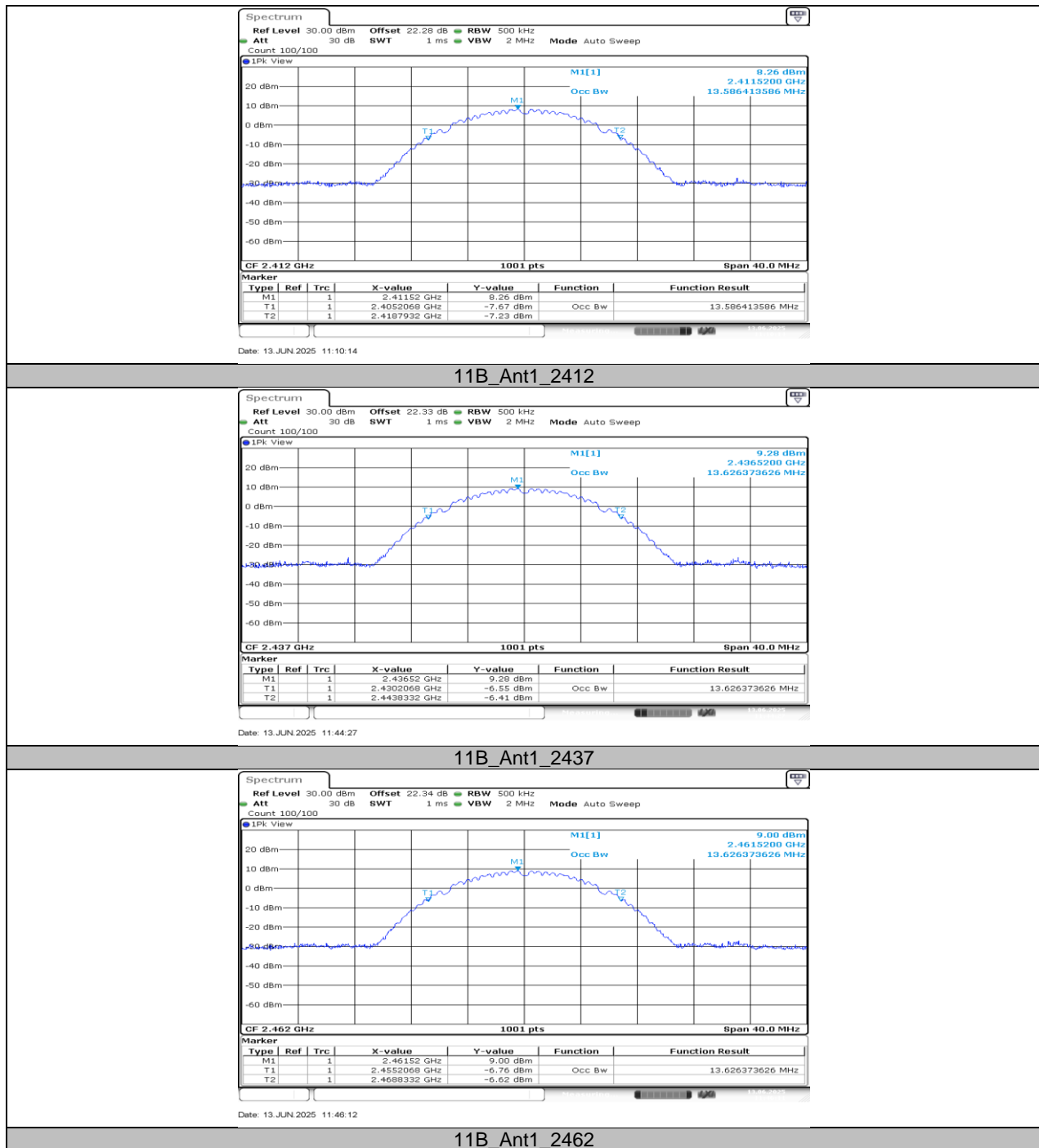
11N40SISO\_Ant1\_2452

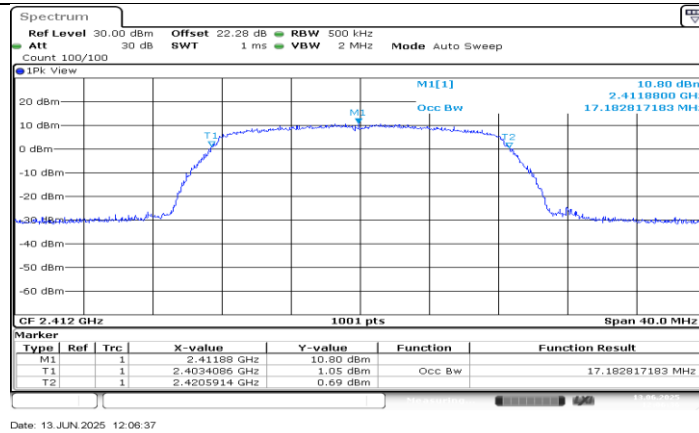
## 12.2. APPENDIX B2: OCCUPIED CHANNEL BANDWIDTH

### 12.2.1. Test Result

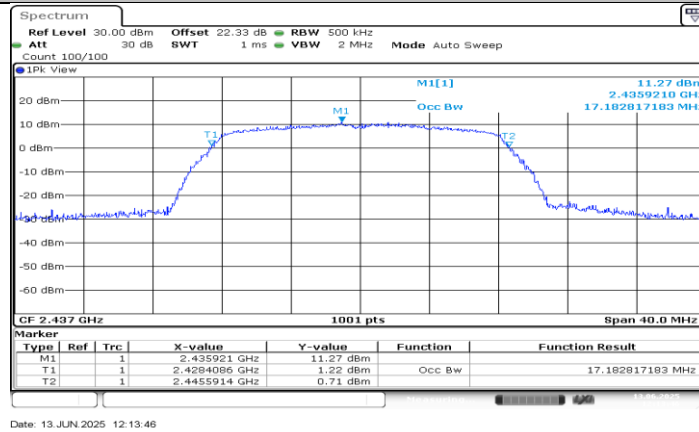
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	13.586	2405.2068	2418.7932	PASS
		2437	13.626	2430.2068	2443.8332	PASS
		2462	13.626	2455.2068	2468.8332	PASS
11G	Ant1	2412	17.183	2403.4086	2420.5914	PASS
		2437	17.183	2428.4086	2445.5914	PASS
		2462	17.183	2453.4086	2470.5914	PASS
11N20SISO	Ant1	2412	18.022	2403.0090	2421.0310	PASS
		2437	18.062	2427.9690	2446.0310	PASS
		2462	18.062	2453.0090	2471.0709	PASS
11N40SISO	Ant1	2422	36.523	2403.7782	2440.3017	PASS
		2437	36.364	2418.8581	2455.2218	PASS
		2452	36.364	2433.8581	2470.2218	PASS

## 12.2.2. Test Graphs

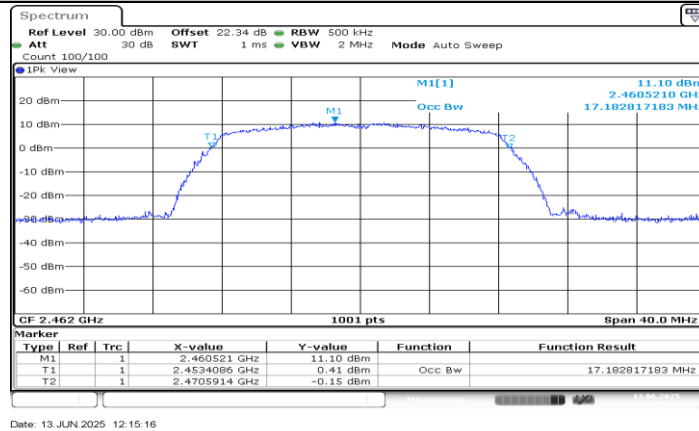




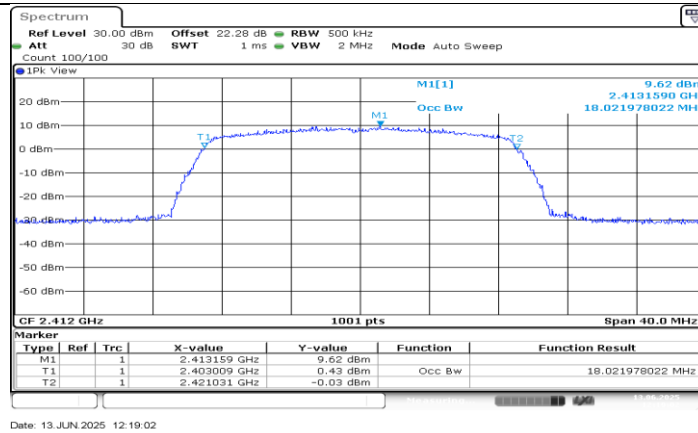
11G\_Ant1\_2412



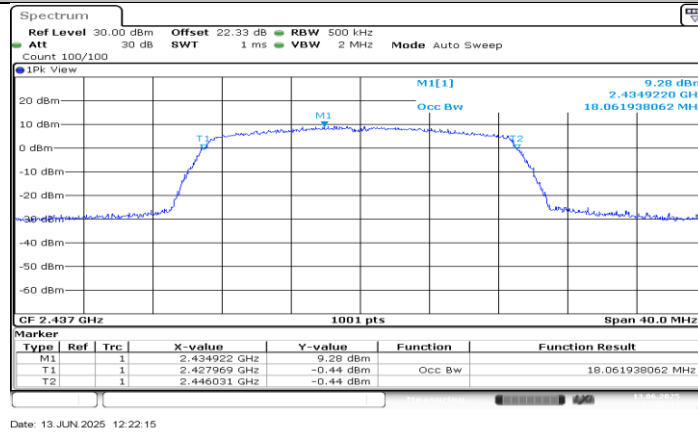
11G\_Ant1\_2437



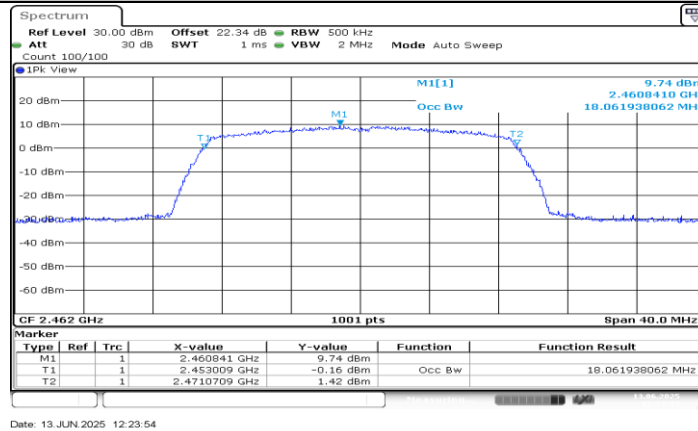
11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

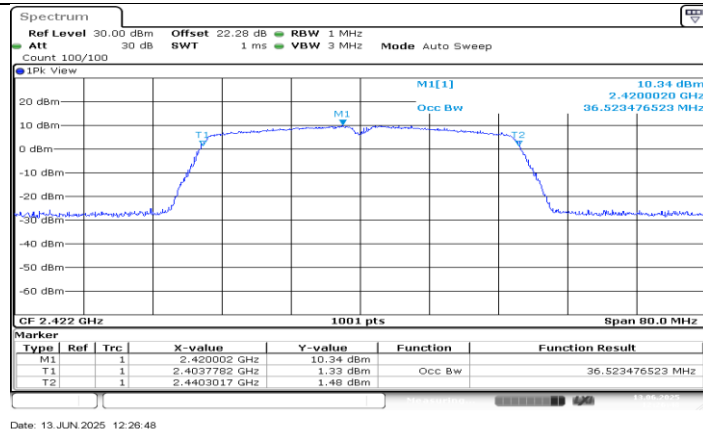


11N20SISO\_Ant1\_2437

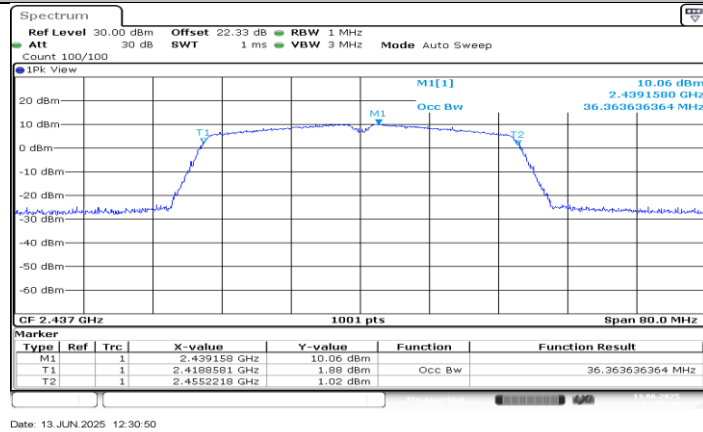


11N20SISO\_Ant1\_2462

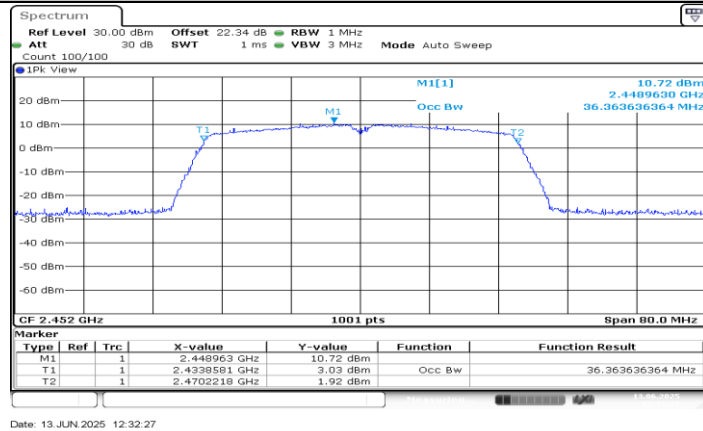




11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

## 12.3. APPENDIX C2: MAXIMUM CONDUCTED OUTPUT POWER

### 12.3.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.20	≤30.00	PASS
		2437	16.66	≤30.00	PASS
		2462	16.38	≤30.00	PASS
11G	Ant1	2412	15.60	≤30.00	PASS
		2437	15.66	≤30.00	PASS
		2462	15.75	≤30.00	PASS
11N20SISO	Ant1	2412	14.66	≤30.00	PASS
		2437	14.51	≤30.00	PASS
		2462	14.59	≤30.00	PASS
11N40SISO	Ant1	2422	14.52	≤30.00	PASS
		2437	14.55	≤30.00	PASS
		2452	14.63	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

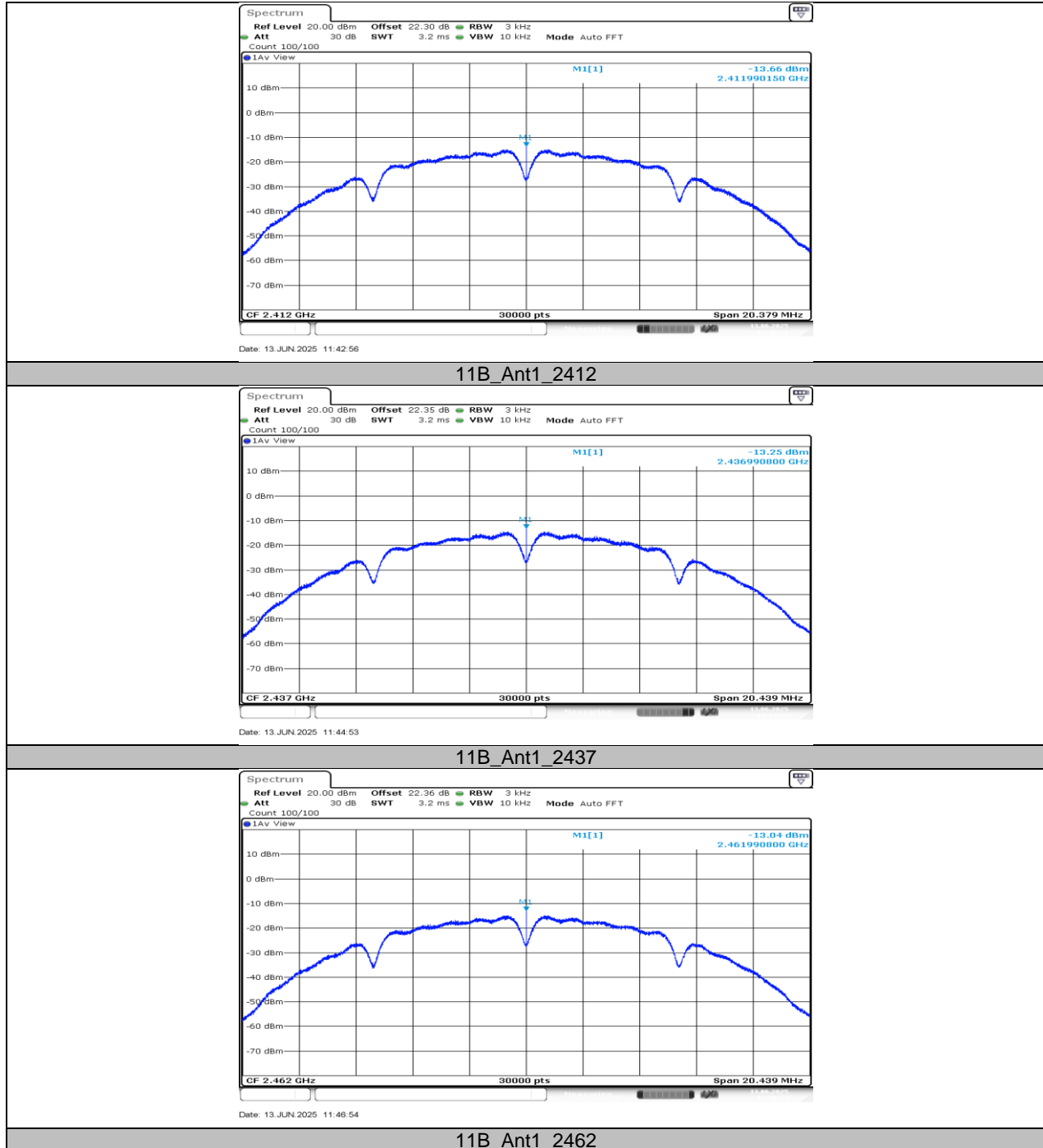
## 12.4. APPENDIX D2: MAXIMUM POWER SPECTRAL DENSITY

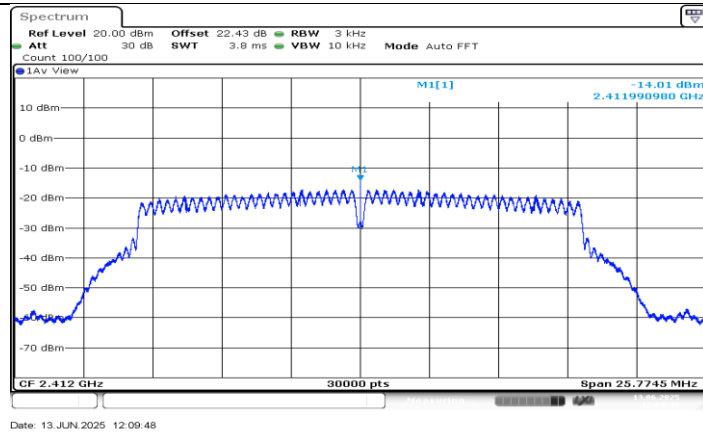
### 12.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.66	≤8.00	PASS
		2437	-13.25	≤8.00	PASS
		2462	-13.04	≤8.00	PASS
11G	Ant1	2412	-14.01	≤8.00	PASS
		2437	-13.26	≤8.00	PASS
		2462	-13.47	≤8.00	PASS
11N20SISO	Ant1	2412	-18.08	≤8.00	PASS
		2437	-18.02	≤8.00	PASS
		2462	-18.14	≤8.00	PASS
11N40SISO	Ant1	2422	-19.60	≤8.00	PASS
		2437	-19.30	≤8.00	PASS
		2452	-18.97	≤8.00	PASS

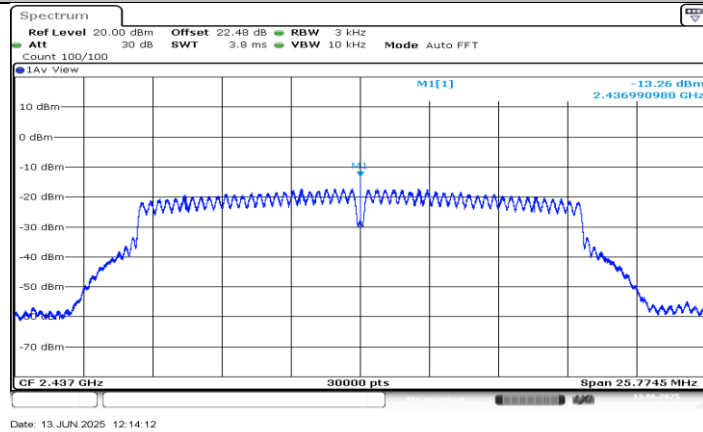
Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

## 12.4.2. Test Graphs

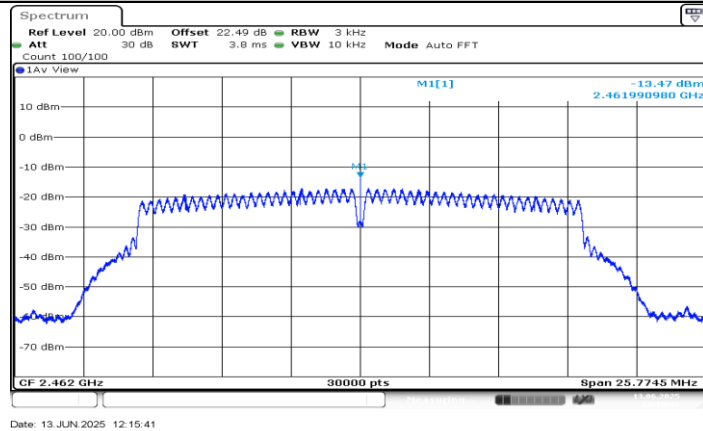




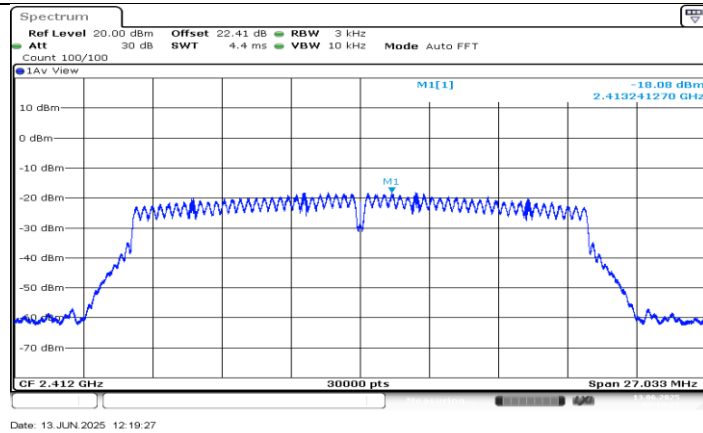
11G\_Ant1\_2412



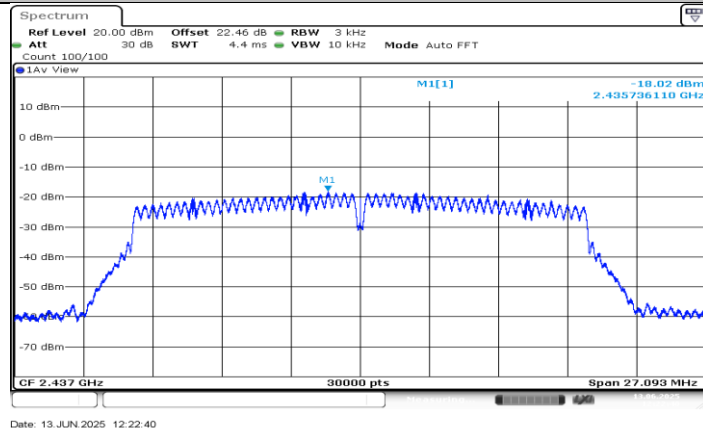
11G\_Ant1\_2437



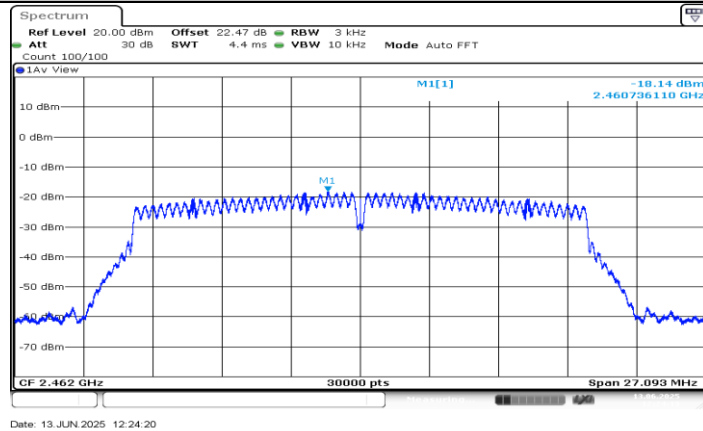
11G\_Ant1\_2462



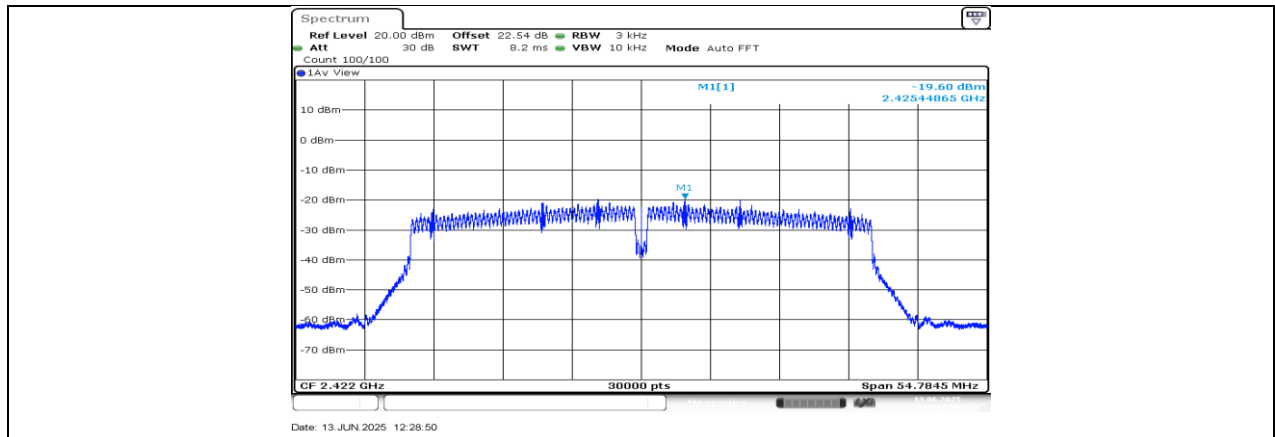
11N20SISO\_Ant1\_2412



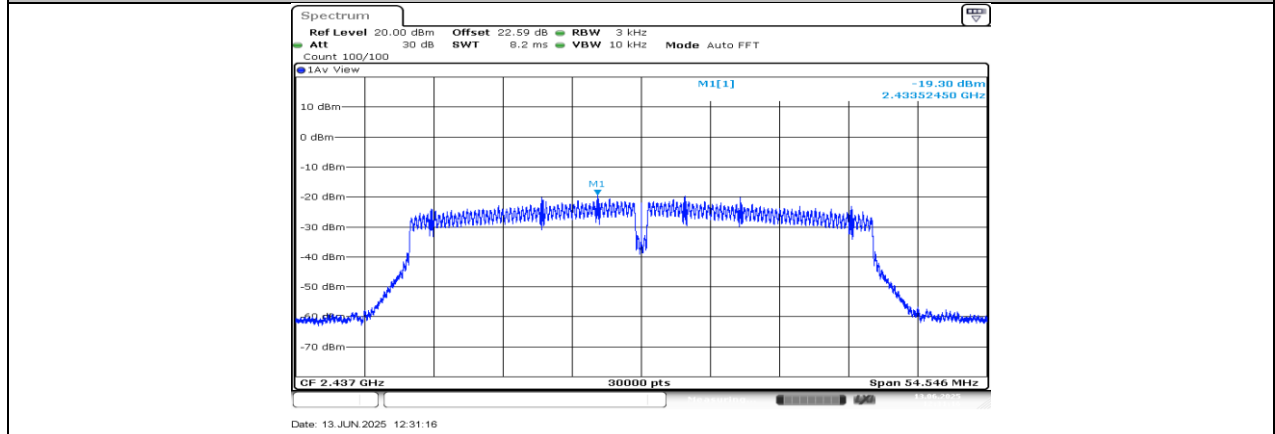
11N20SISO\_Ant1\_2437



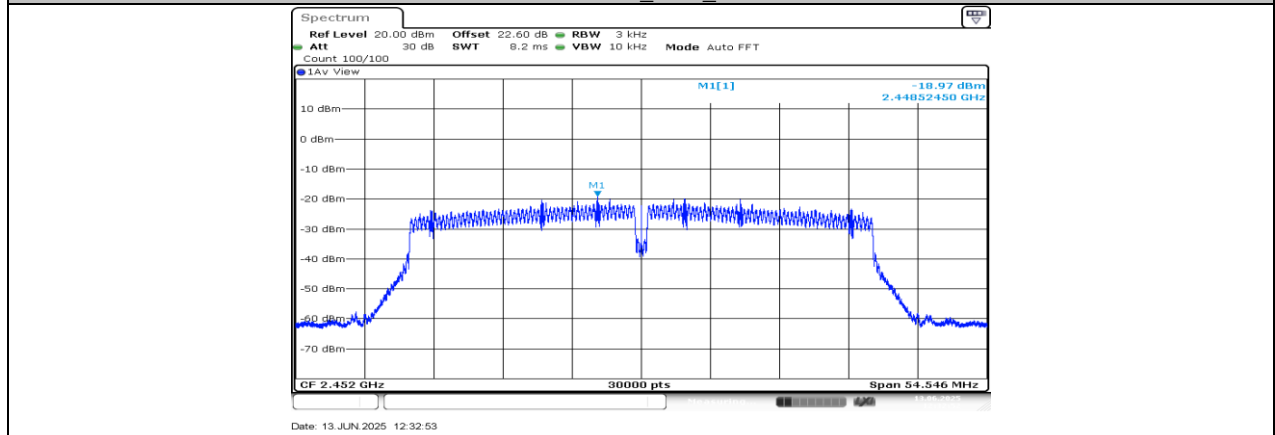
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

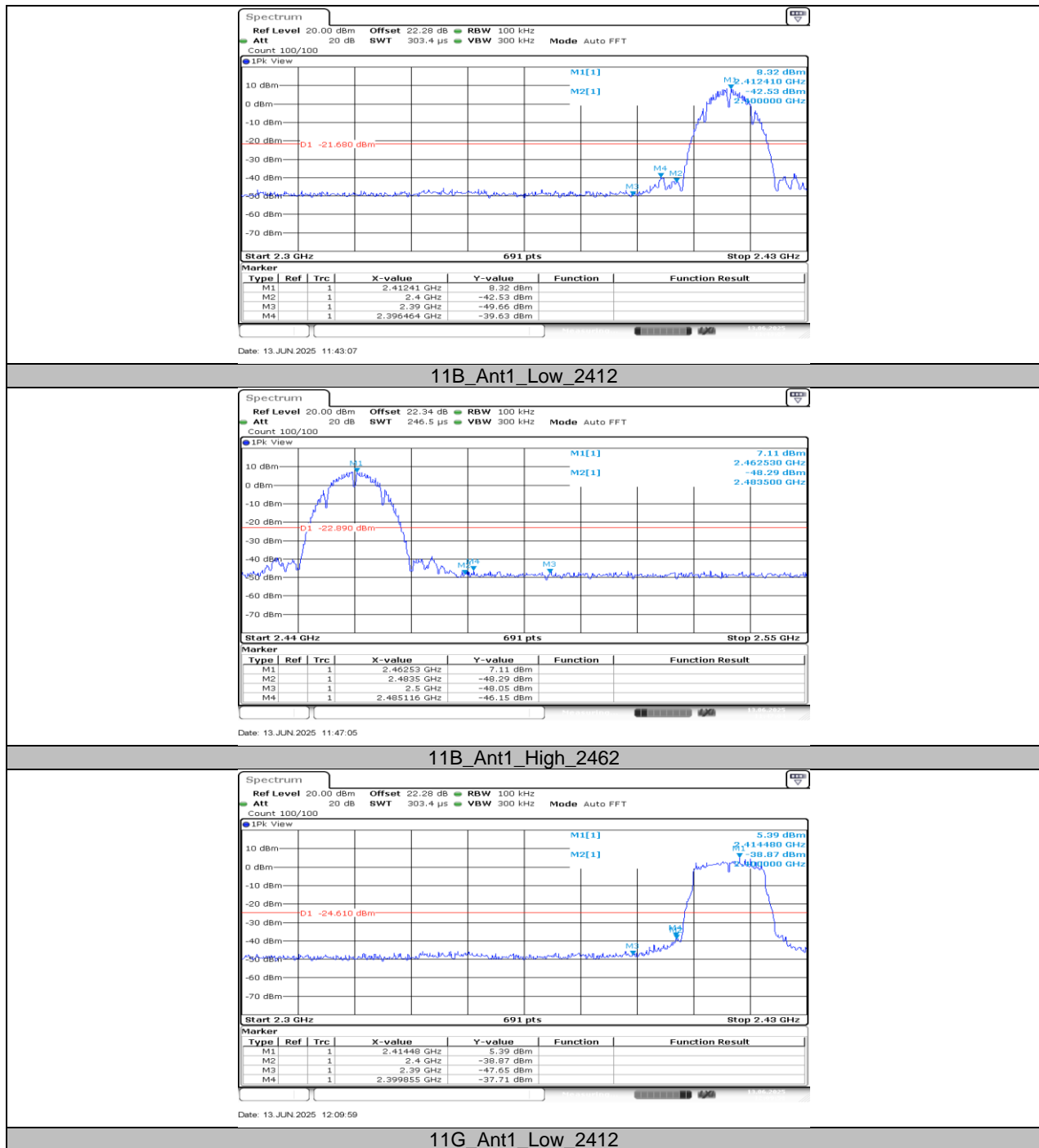
## 12.5. APPENDIX E2: BAND EDGE MEASUREMENTS

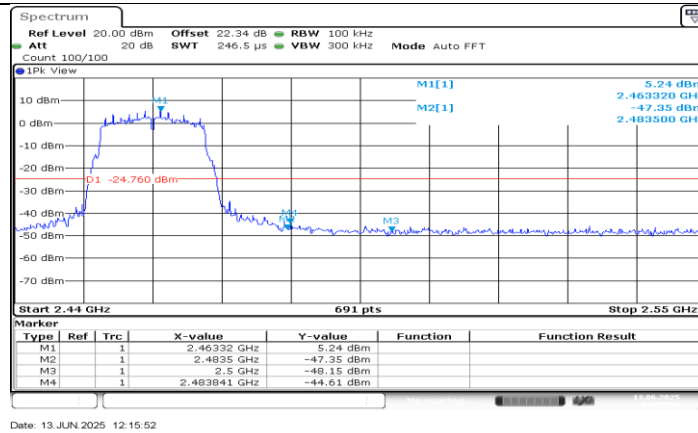
### 12.5.1. Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.32	-39.63	$\leq -21.68$	PASS
		High	2462	7.11	-46.15	$\leq -22.89$	PASS
11G	Ant1	Low	2412	5.39	-37.71	$\leq -24.61$	PASS
		High	2462	5.24	-44.61	$\leq -24.76$	PASS
11N20SISO	Ant1	Low	2412	4.45	-40.08	$\leq -25.55$	PASS
		High	2462	3.20	-45.92	$\leq -26.8$	PASS
11N40SISO	Ant1	Low	2422	1.65	-37.12	$\leq -28.35$	PASS
		High	2452	1.73	-43.43	$\leq -28.27$	PASS

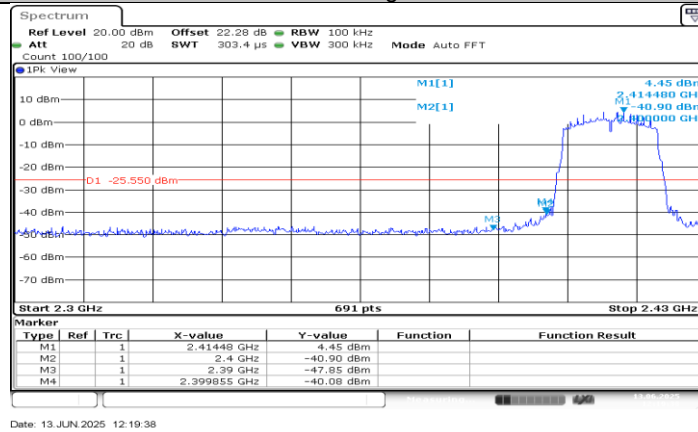


## 12.5.2. Test Graphs

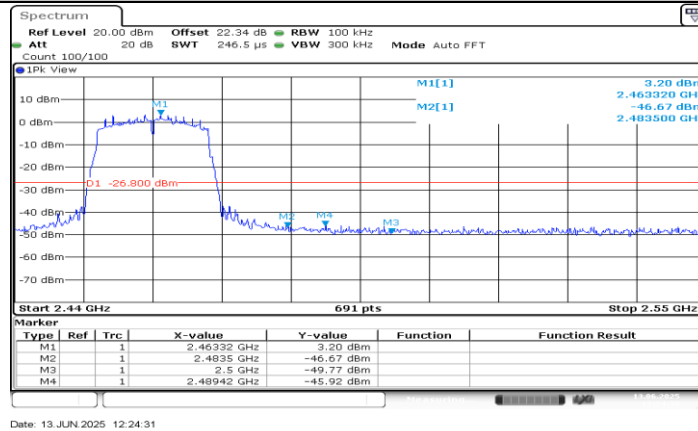




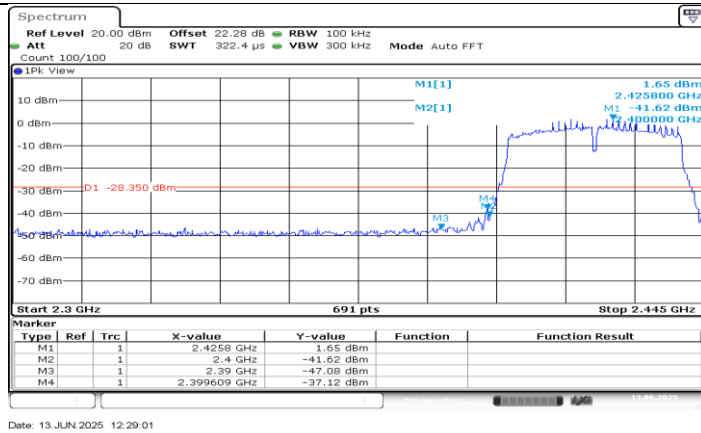
11G\_Ant1\_High\_2462



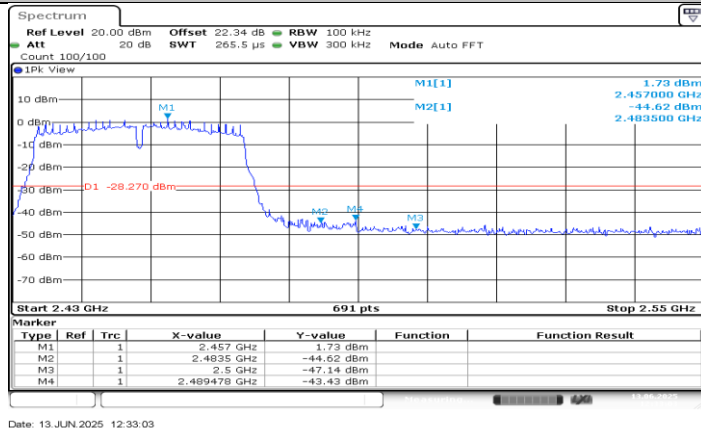
11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant1\_High\_2462



11N40SISO\_Ant1\_Low\_2422



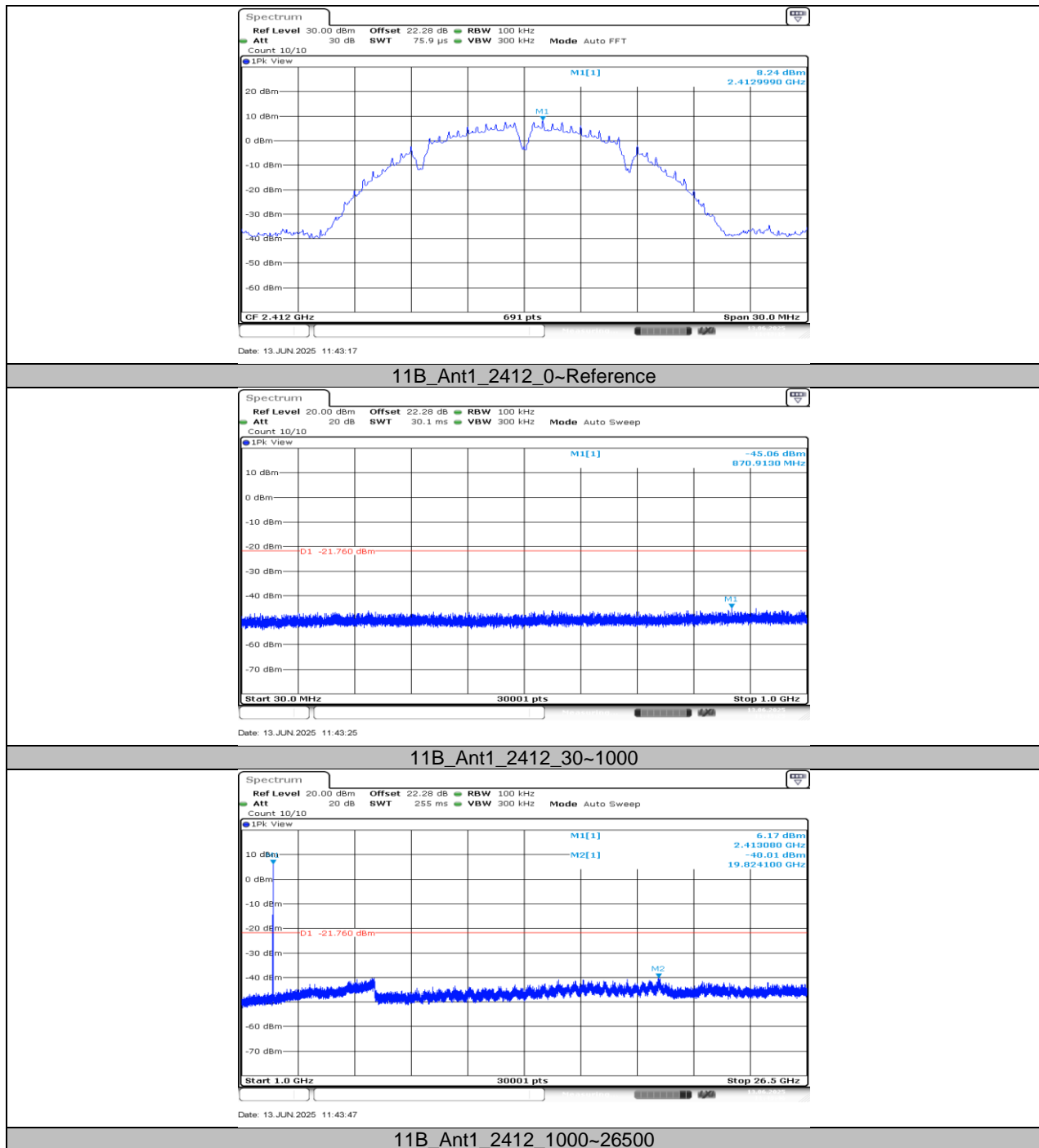
11N40SISO\_Ant1\_High\_2452

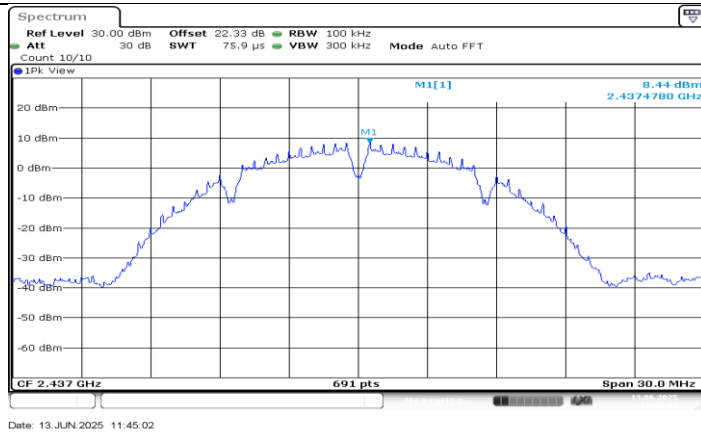
## 12.6. APPENDIX F2: CONDUCTED SPURIOUS EMISSION

### 12.6.1. Test Result

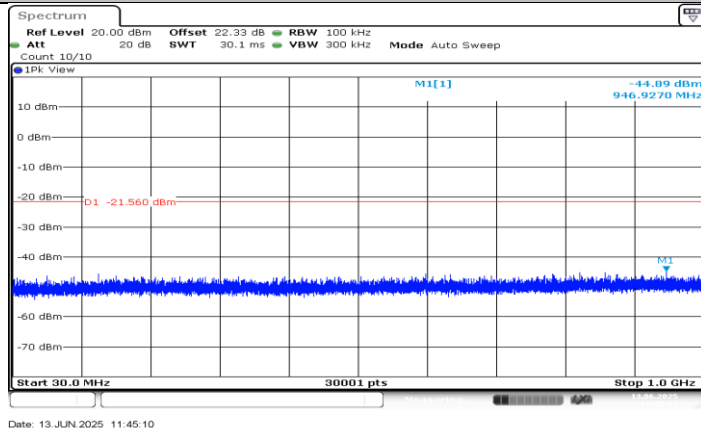
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	8.24	---	PASS
			30~1000	-45.06	$\leq -21.76$	PASS
			1000~26500	-40.01	$\leq -21.76$	PASS
		2437	Reference	8.44	---	PASS
			30~1000	-44.89	$\leq -21.56$	PASS
			1000~26500	-39.56	$\leq -21.56$	PASS
		2462	Reference	8.14	---	PASS
			30~1000	-44.82	$\leq -21.86$	PASS
			1000~26500	-38.96	$\leq -21.86$	PASS
11G	Ant1	2412	Reference	5.11	---	PASS
			30~1000	-45.29	$\leq -24.89$	PASS
			1000~26500	-40.15	$\leq -24.89$	PASS
		2437	Reference	5.76	---	PASS
			30~1000	-44.25	$\leq -24.24$	PASS
			1000~26500	-40.1	$\leq -24.24$	PASS
		2462	Reference	6.06	---	PASS
			30~1000	-45.09	$\leq -23.94$	PASS
			1000~26500	-39.89	$\leq -23.94$	PASS
11N20SISO	Ant1	2412	Reference	4.89	---	PASS
			30~1000	-44.94	$\leq -25.11$	PASS
			1000~26500	-40.82	$\leq -25.11$	PASS
		2437	Reference	4.78	---	PASS
			30~1000	-45.06	$\leq -25.22$	PASS
			1000~26500	-40.06	$\leq -25.22$	PASS
		2462	Reference	4.83	---	PASS
			30~1000	-45	$\leq -25.17$	PASS
			1000~26500	-40.42	$\leq -25.17$	PASS
11N40SISO	Ant1	2422	Reference	2.11	---	PASS
			30~1000	-45.05	$\leq -27.89$	PASS
			1000~26500	-40.1	$\leq -27.89$	PASS
		2437	Reference	2.21	---	PASS
			30~1000	-45.06	$\leq -27.79$	PASS
			1000~26500	-39.43	$\leq -27.79$	PASS
		2452	Reference	1.84	---	PASS
			30~1000	-45.29	$\leq -28.16$	PASS
			1000~26500	-39.67	$\leq -28.16$	PASS

## 12.6.2. Test Graphs

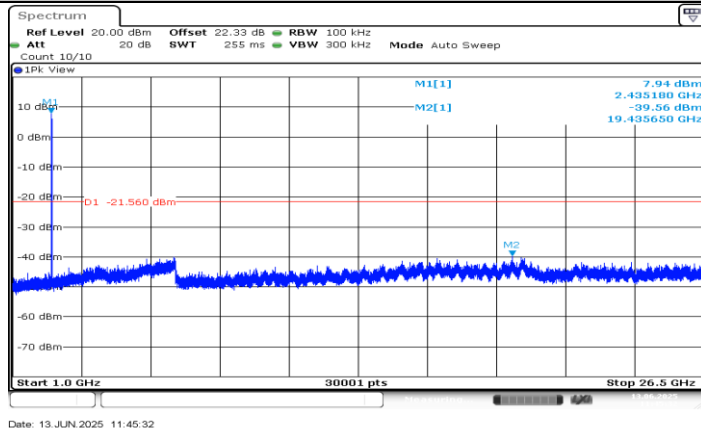




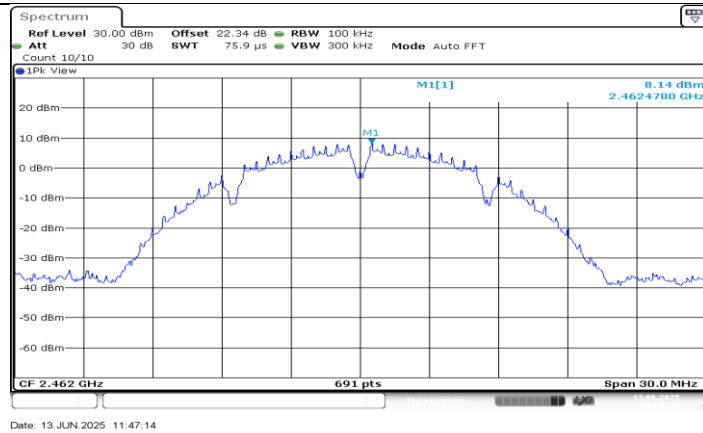
### 11B\_Ant1\_2437\_0~Reference



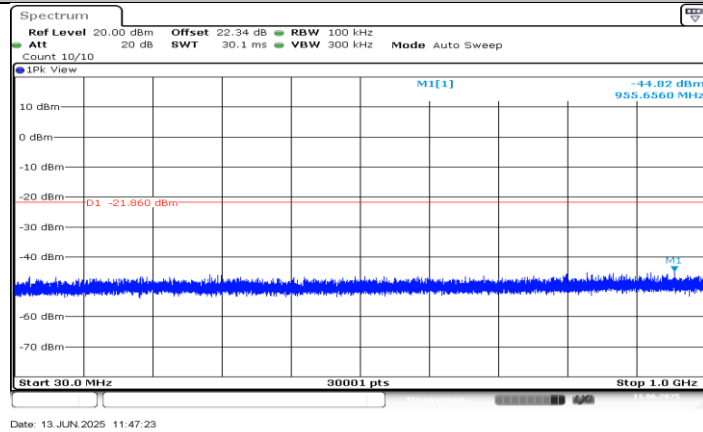
### 11B\_Ant1\_2437\_30~1000



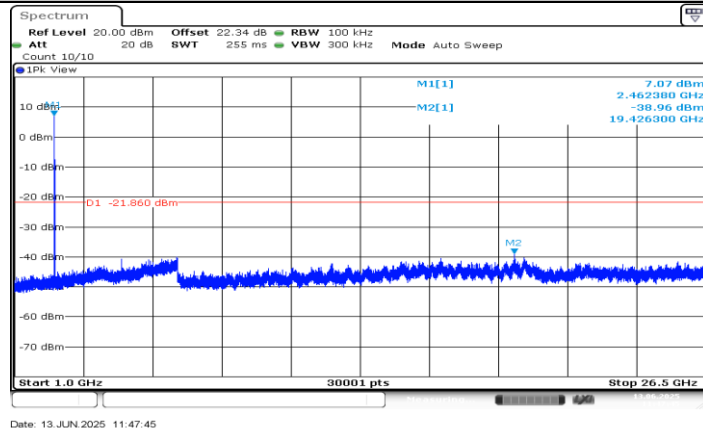
### 11B\_Ant1\_2437\_1000~26500



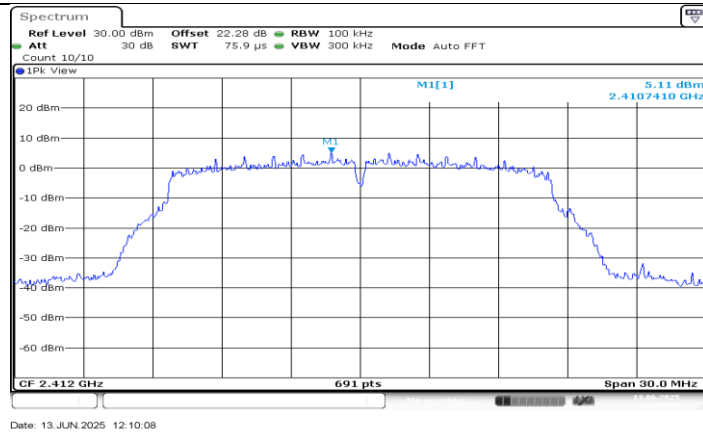
11B\_Ant1\_2462\_0~Reference



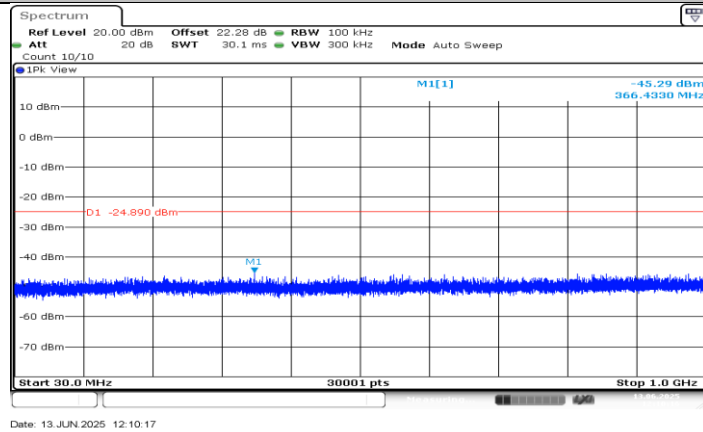
11B\_Ant1\_2462\_30~1000



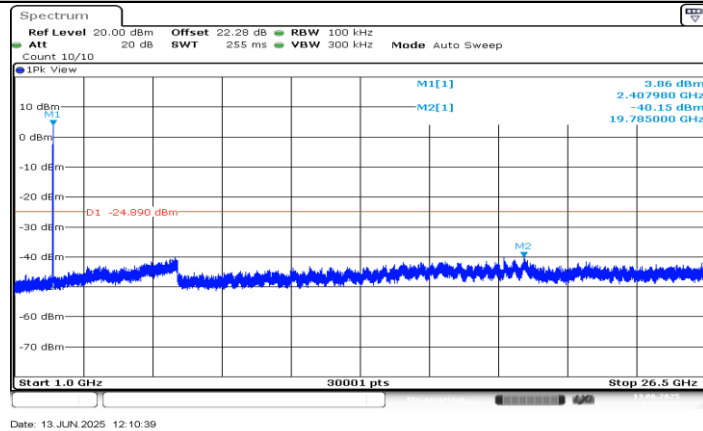
11B\_Ant1\_2462\_1000~26500



### 11G\_Ant1\_2412\_0~Reference

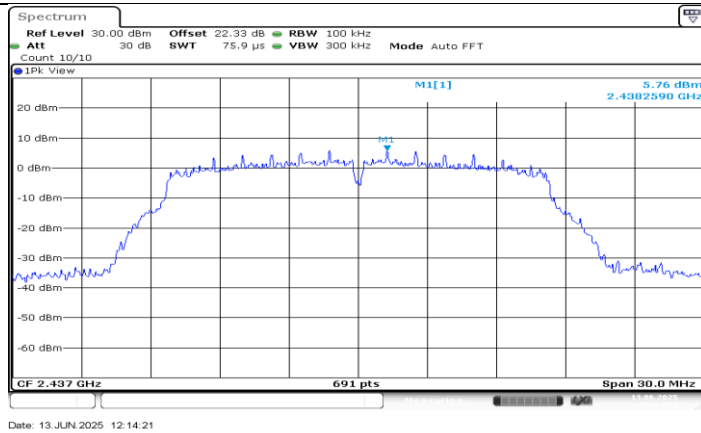


### 11G\_Ant1\_2412\_30~1000

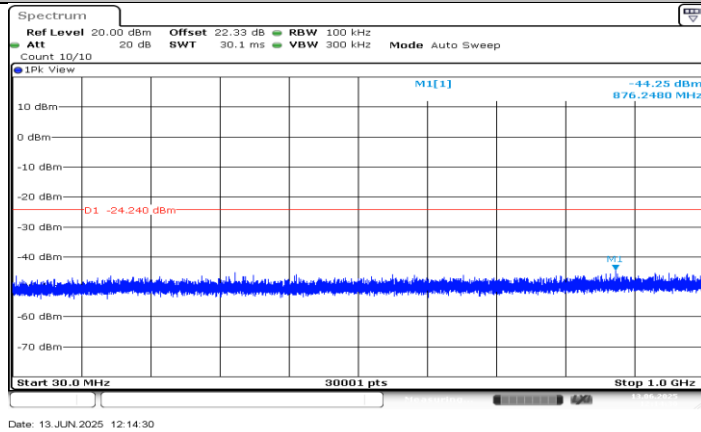


### 11G\_Ant1\_2412\_1000~26500

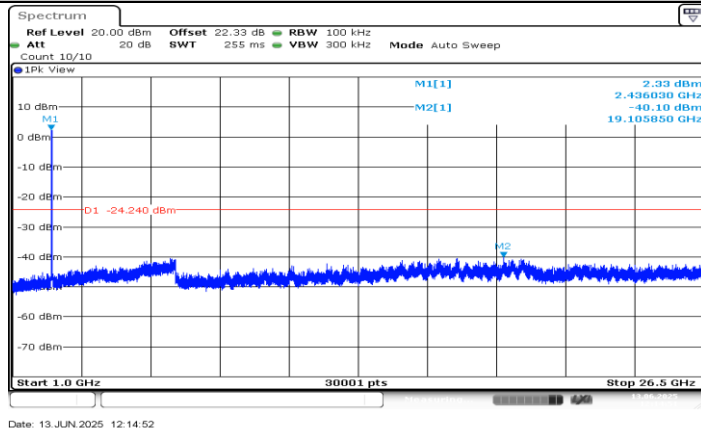




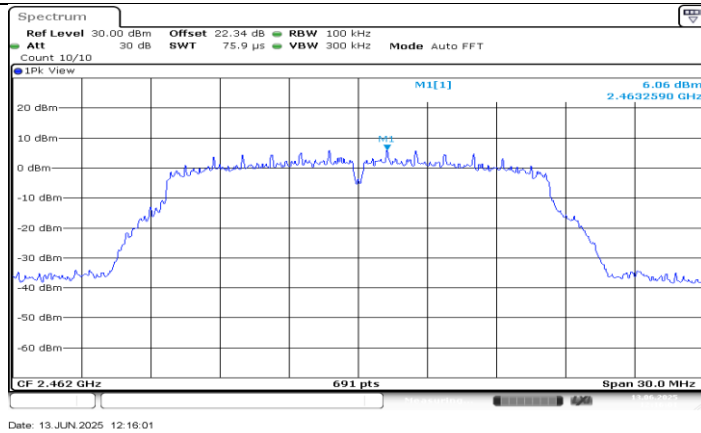
#### 11G\_Ant1\_2437\_0~Reference



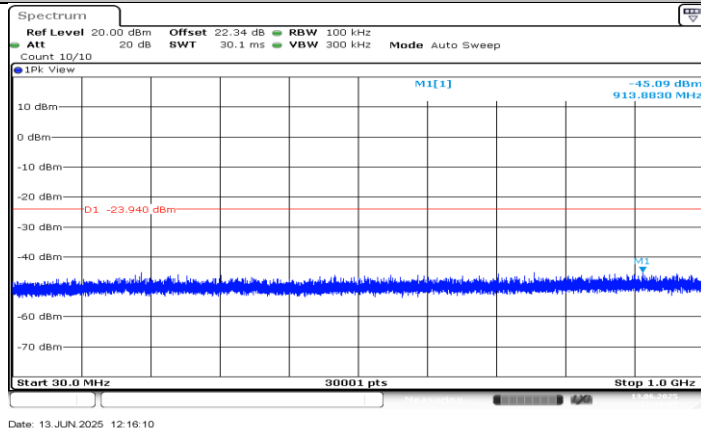
#### 11G\_Ant1\_2437\_30~1000



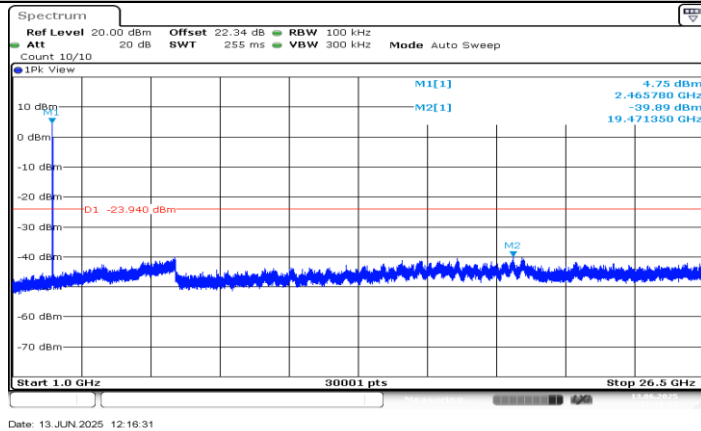
#### 11G\_Ant1\_2437\_1000~26500



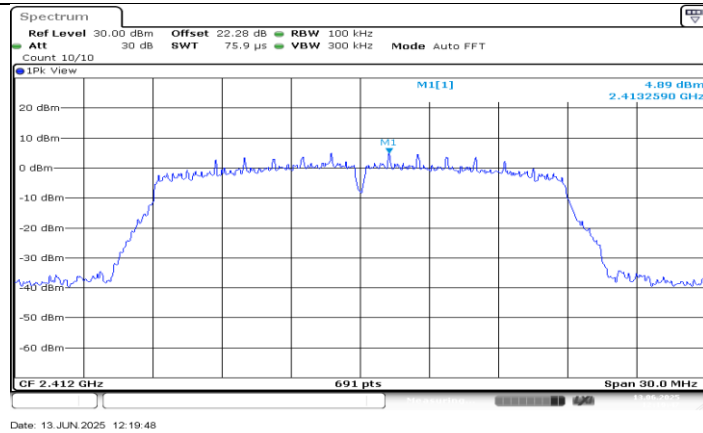
11G\_Ant1\_2462\_0~Reference



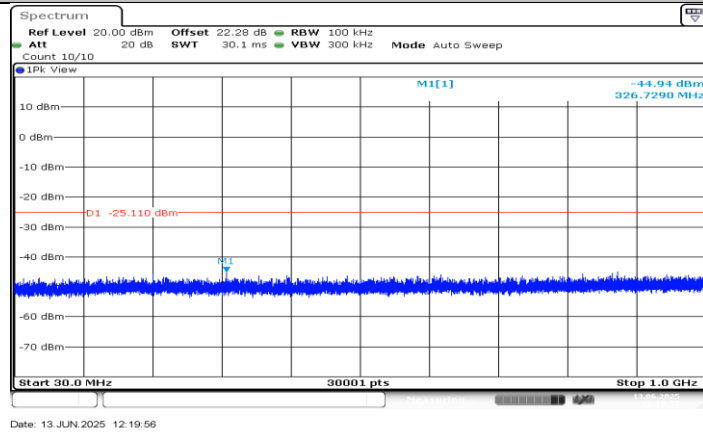
11G\_Ant1\_2462\_30~1000



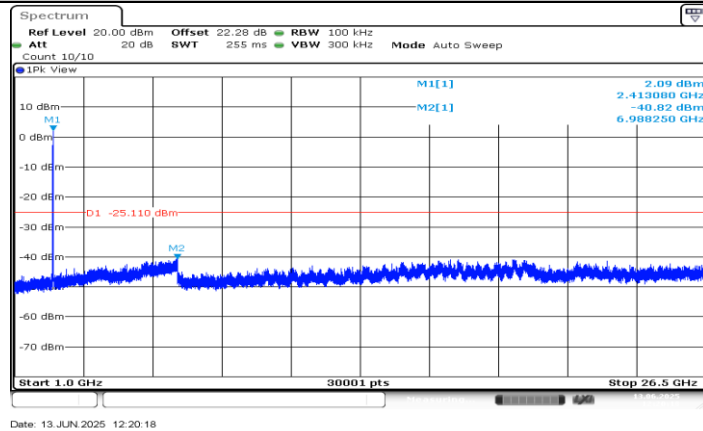
11G\_Ant1\_2462\_1000~26500



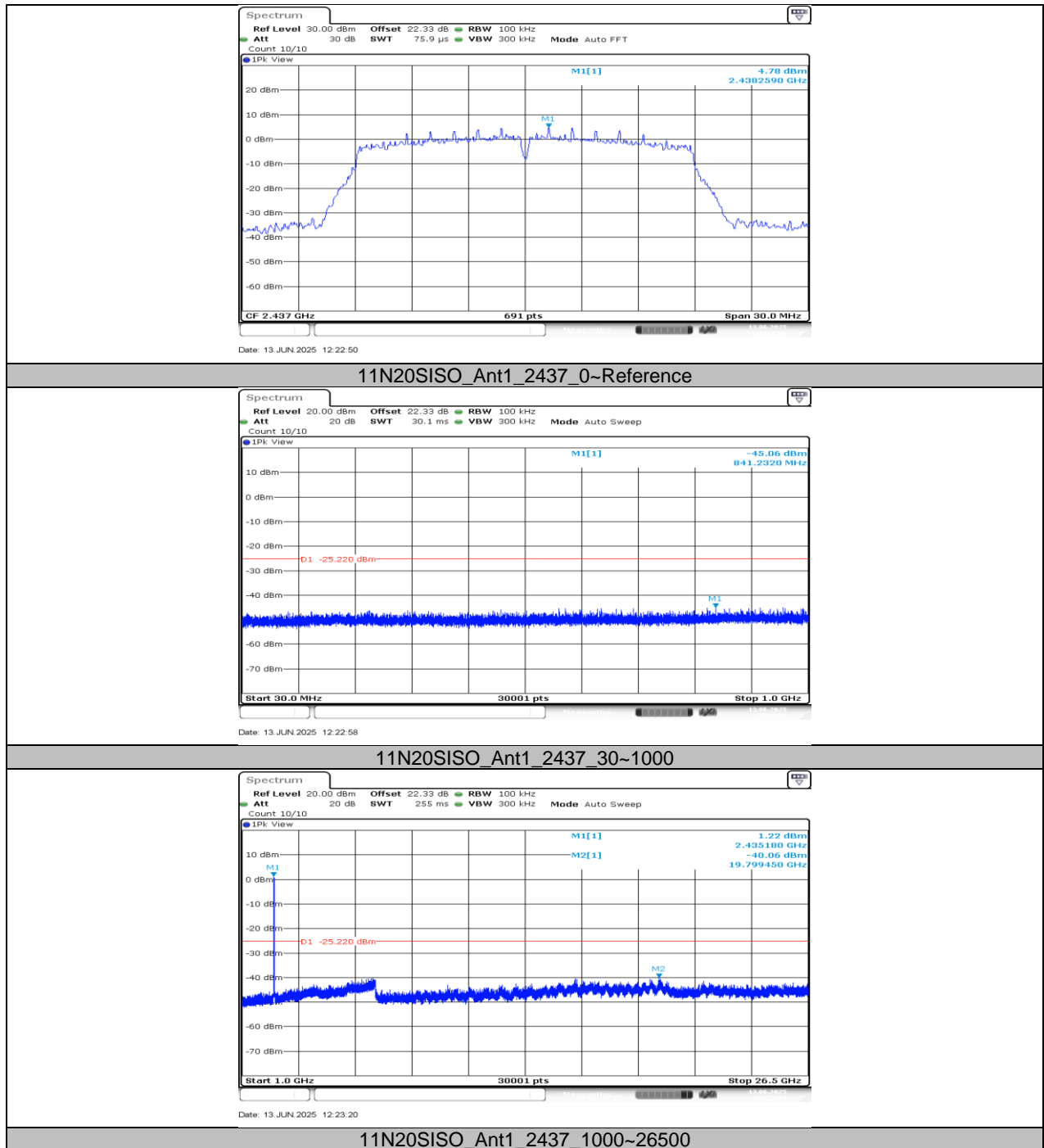
#### 11N20SISO\_Ant1\_2412\_0~Reference

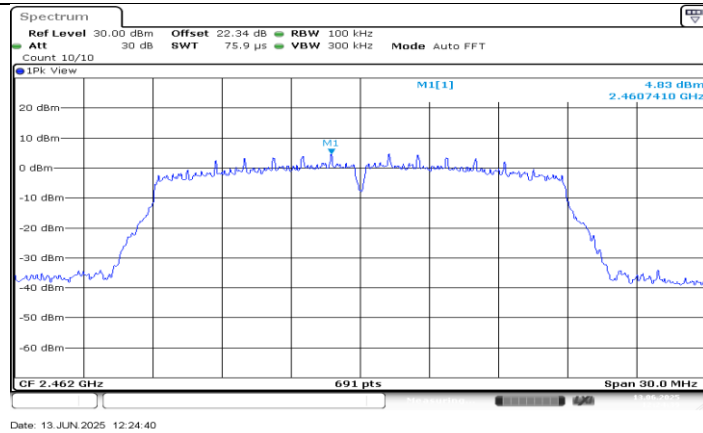


#### 11N20SISO\_Ant1\_2412\_30~1000

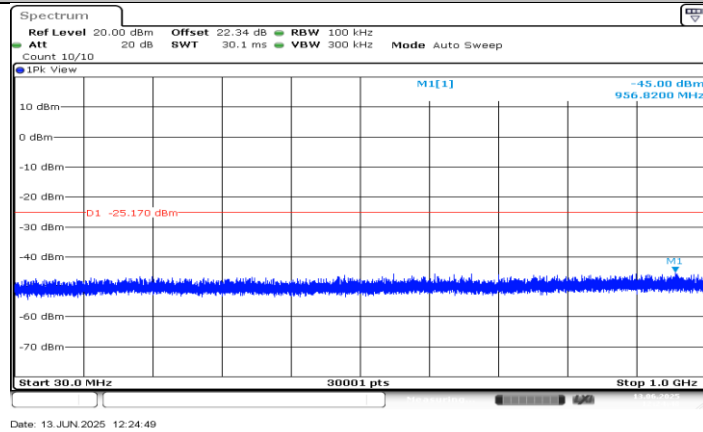


#### 11N20SISO\_Ant1\_2412\_1000~26500

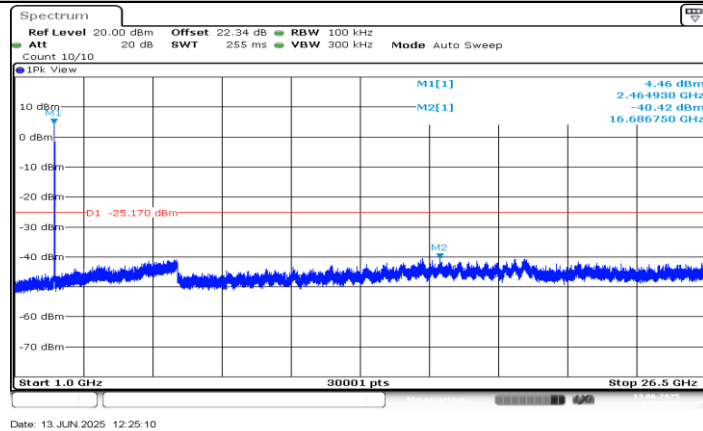




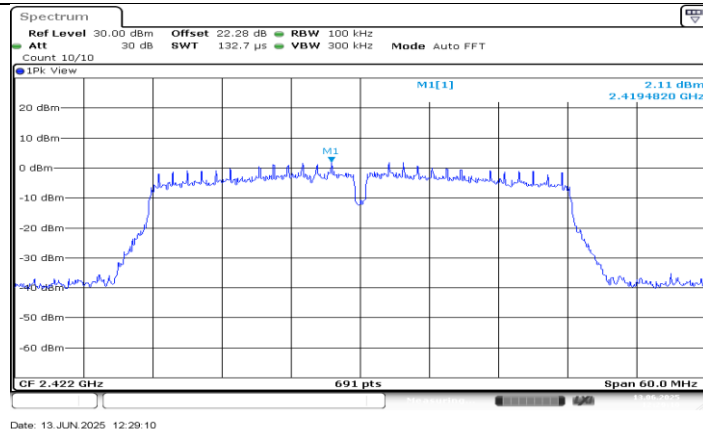
#### 11N20SISO\_Ant1\_2462\_0~Reference



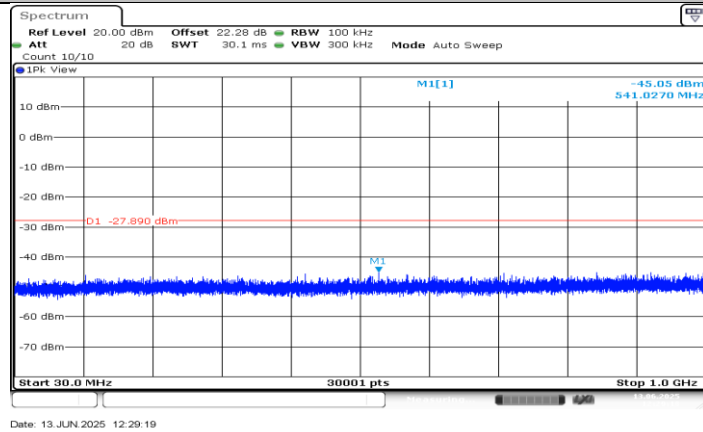
#### 11N20SISO\_Ant1\_2462\_30~1000



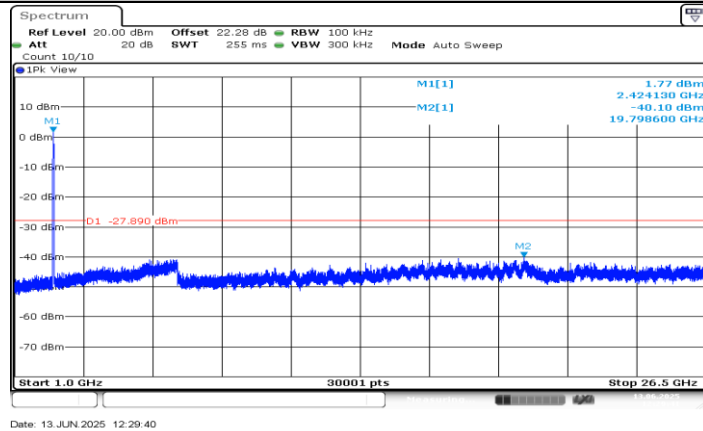
#### 11N20SISO\_Ant1\_2462\_1000~26500



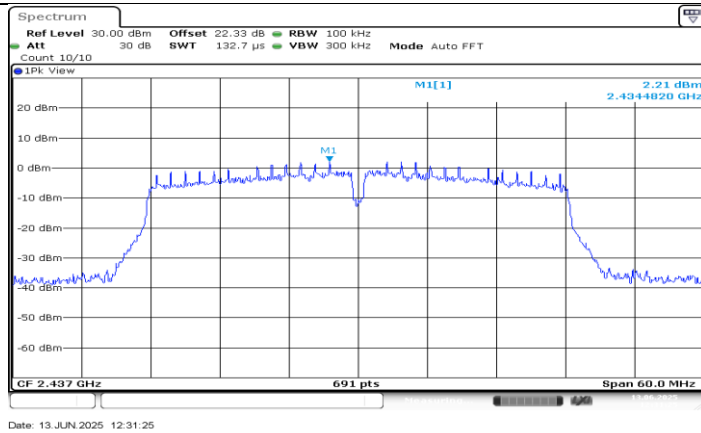
11N40SISO\_Ant1\_2422\_0~Reference



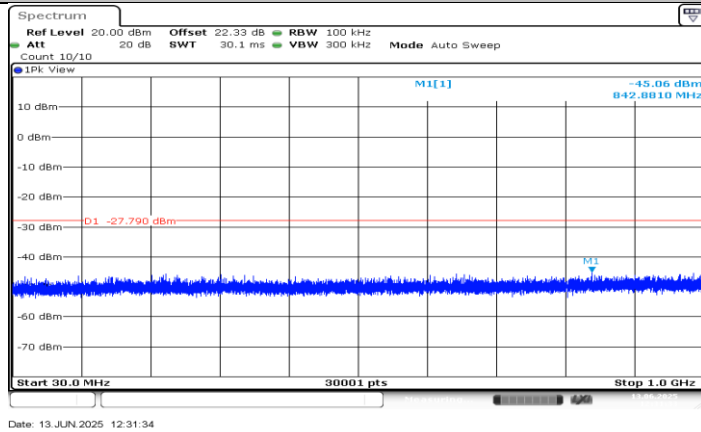
11N40SISO\_Ant1\_2422\_30~1000



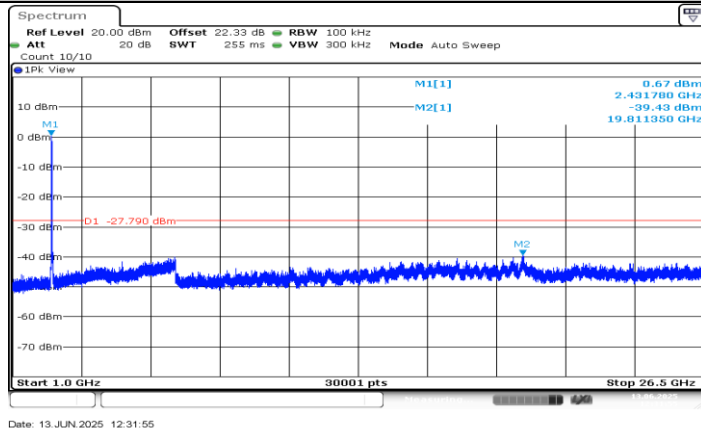
11N40SISO\_Ant1\_2422\_1000~26500



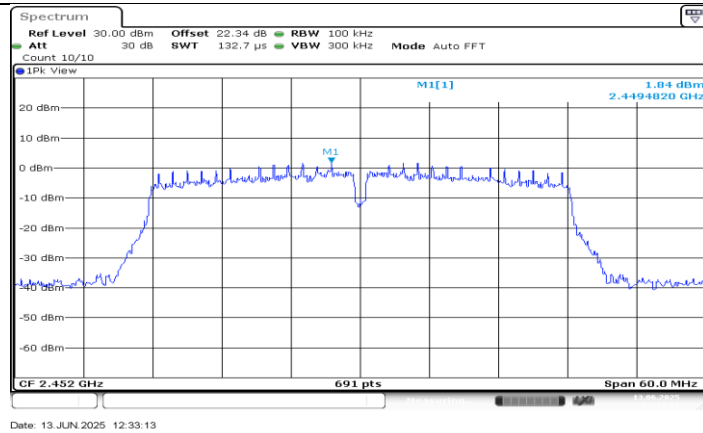
11N40SISO\_Ant1\_2437\_0~Reference



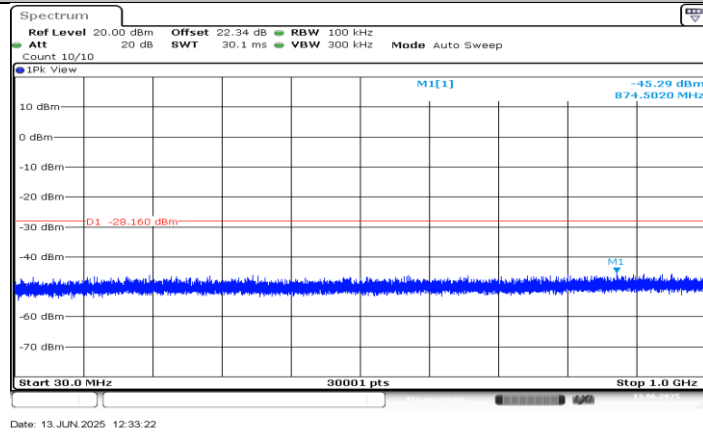
11N40SISO\_Ant1\_2437\_30~1000



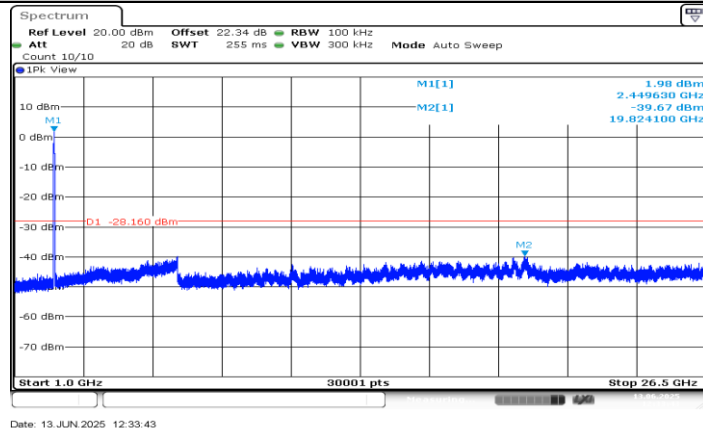
11N40SISO\_Ant1\_2437\_1000~26500



#### 11N40SISO\_Ant1\_2452\_0~Reference



#### 11N40SISO\_Ant1\_2452\_30~1000



#### 11N40SISO\_Ant1\_2452\_1000~26500



**12.7. APPENDIX G2: DUTY CYCLE****12.7.1. Test Result**

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	8.37	8.4	0.9964	99.64	0.02	0.12	0.01
11G	1.38	1.43	0.9650	96.50	0.15	0.72	1
11N20SISO	1.3	1.34	0.9701	97.01	0.13	0.77	1
11N40SISO	0.64	0.68	0.9412	94.12	0.26	1.56	2

Note:

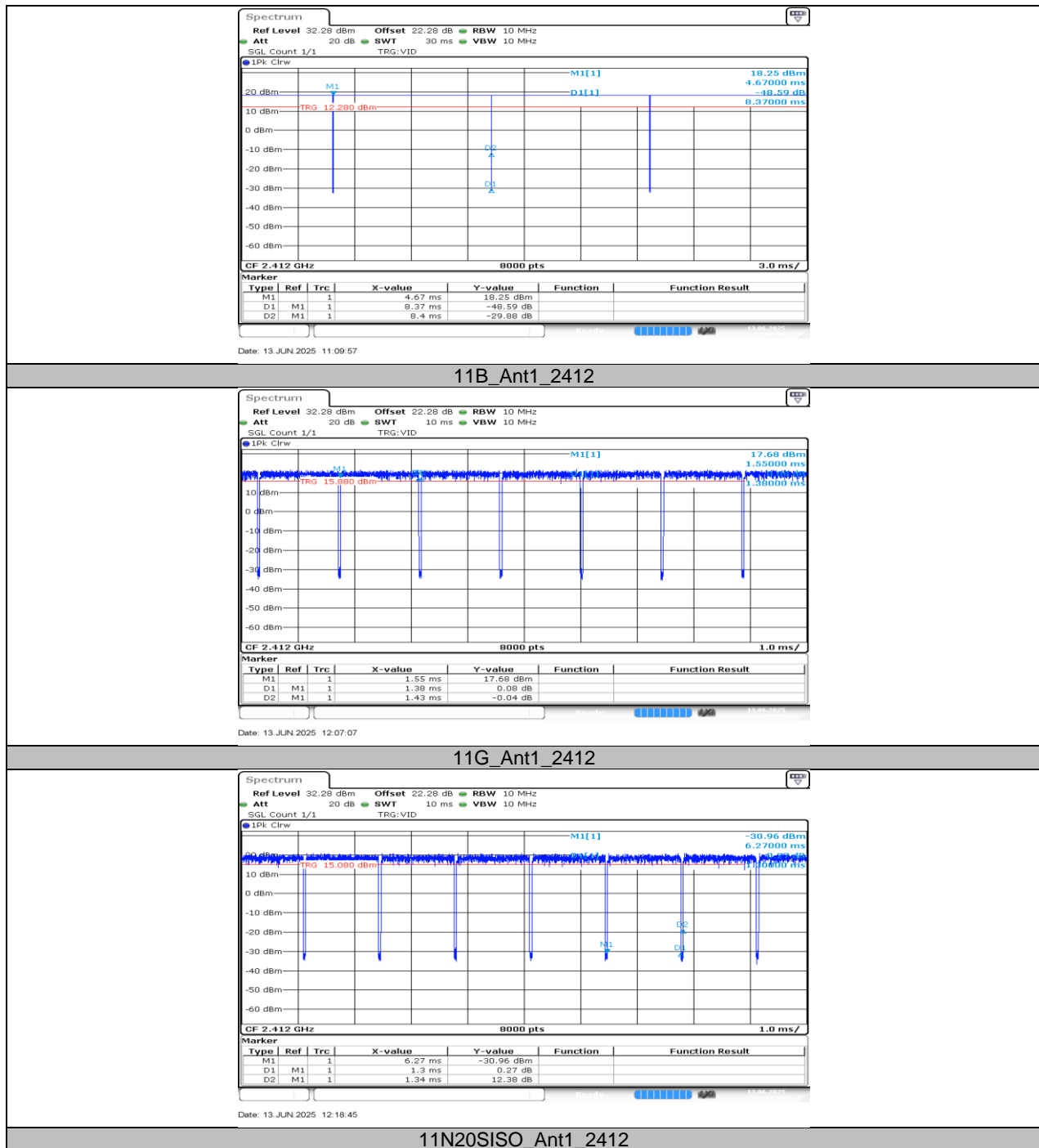
Duty Cycle Correction Factor= $10\log(1/x)$ .

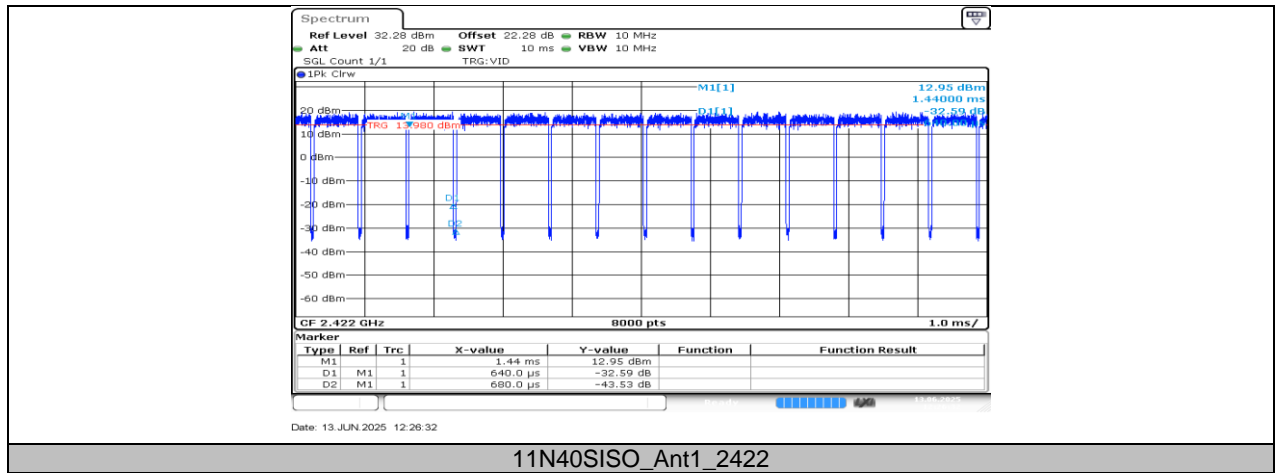
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

## 12.7.2. Test Graphs





END OF REPORT