



# Appendix for 2.4G WLAN



## 1 Appendix A: DTS (6 dB) Bandwidth

### 1.1 Test Result

#### 1.1.1 11b20SISO

Test Mode	Channel	Antenna	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B20SISO	2412	Ant1	9.7	2407.28	2416.99	DTS ≥ 0.5	PASS
	2437	Ant1	10.02	2431.98	2442.0	DTS ≥ 0.5	PASS
	2462	Ant1	9.56	2456.98	2466.53	DTS ≥ 0.5	PASS

#### 1.1.2 11g20SISO

Test Mode	Channel	Antenna	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11G20SISO	2412	Ant1	16.52	2403.72	2420.25	DTS ≥ 0.5	PASS
	2437	Ant1	16.38	2428.8	2445.18	DTS ≥ 0.5	PASS
	2462	Ant1	16.39	2453.78	2470.17	DTS ≥ 0.5	PASS

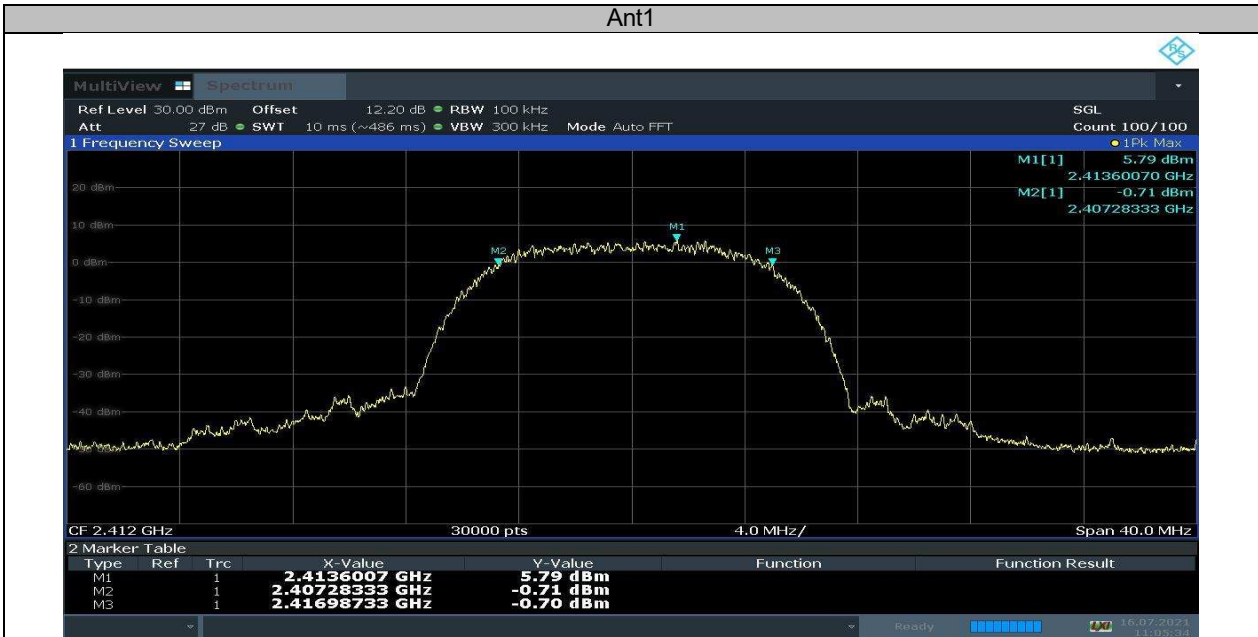
#### 1.1.3 11n20SISO

Test Mode	Channel	Antenna	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11N20SISO	2412	Ant1	17.74	2403.11	2420.85	DTS ≥ 0.5	PASS
	2437	Ant1	17.61	2428.19	2445.79	DTS ≥ 0.5	PASS
	2462	Ant1	17.6	2453.18	2470.78	DTS ≥ 0.5	PASS

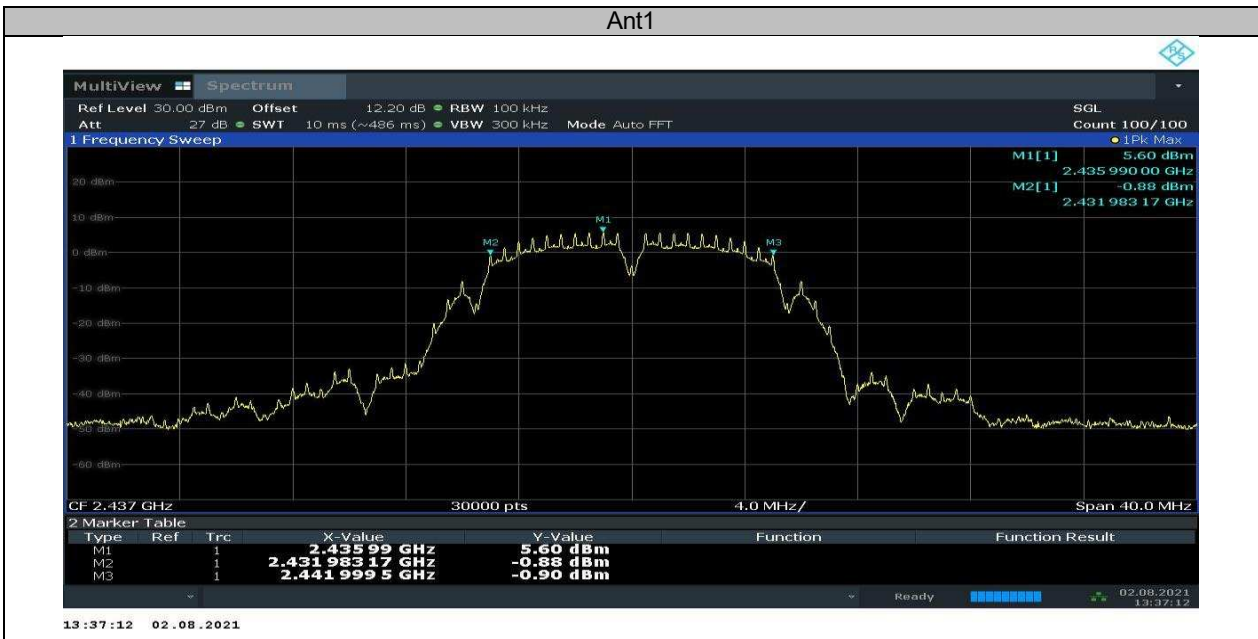


### 1.2 Test Graphs

#### 1.2.1 11b20SISO\_2412

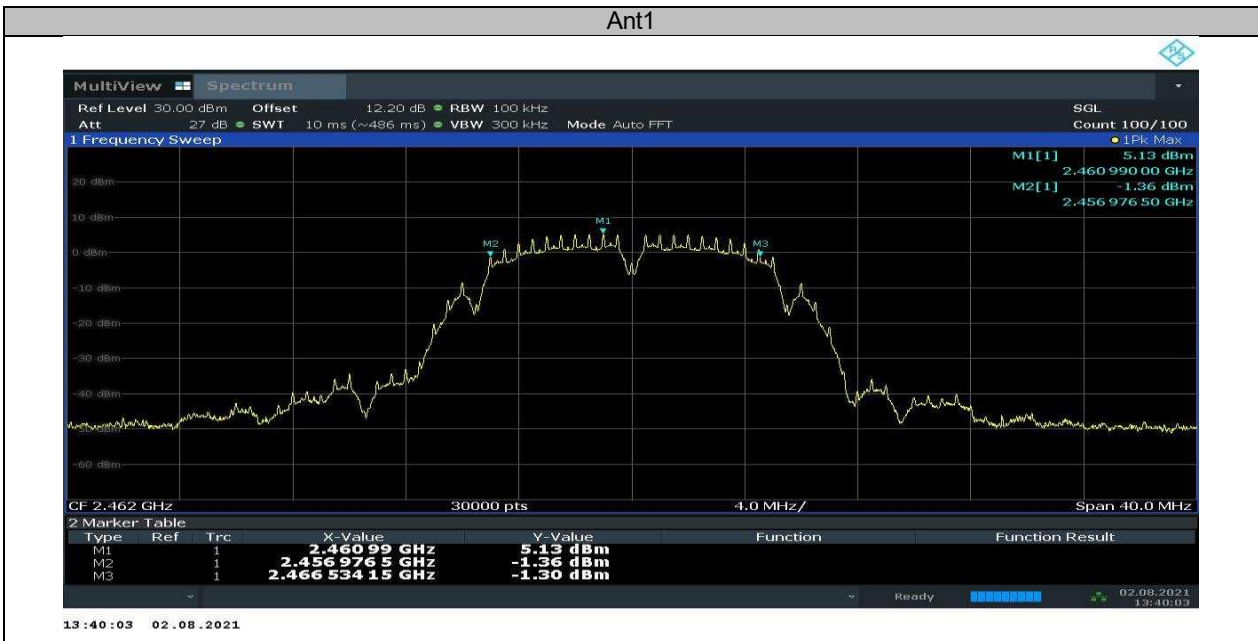


#### 1.2.2 11b20SISO\_2437

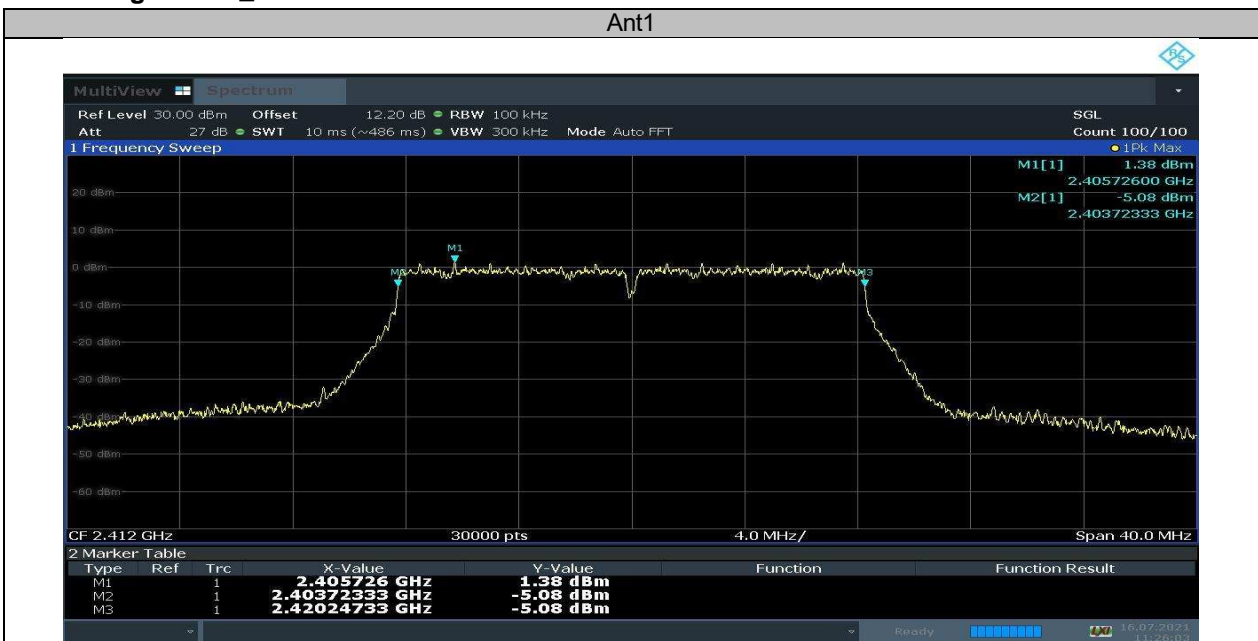




### 1.2.3 11b20SISO\_2462

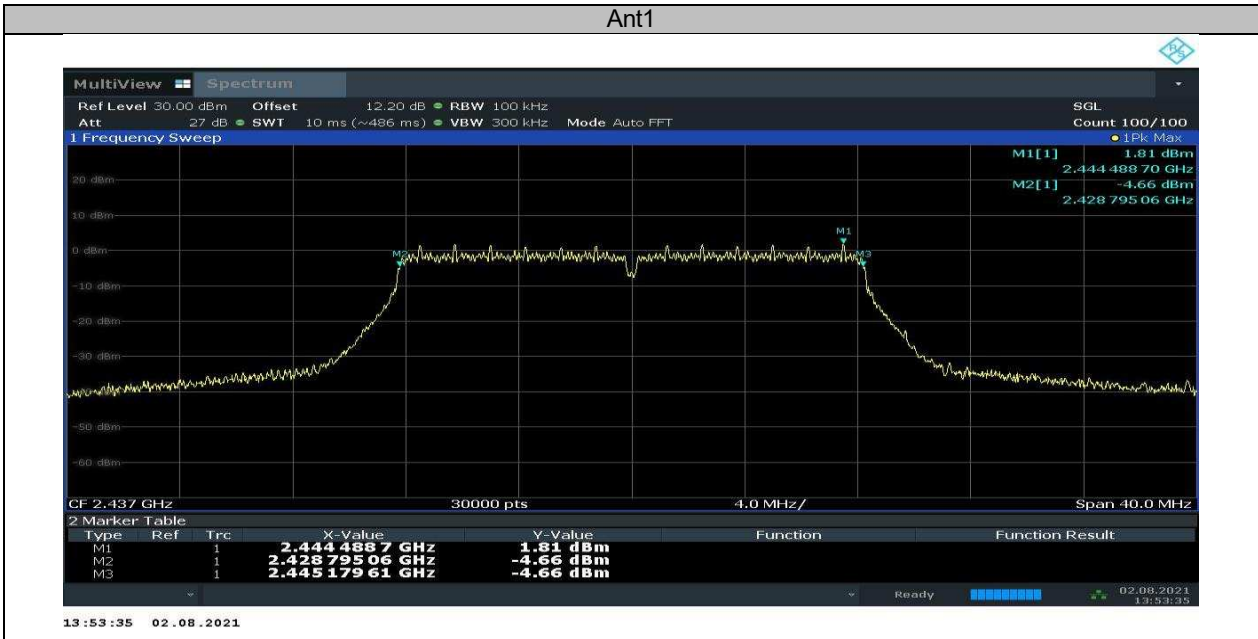


### 1.2.4 11g20SISO\_2412

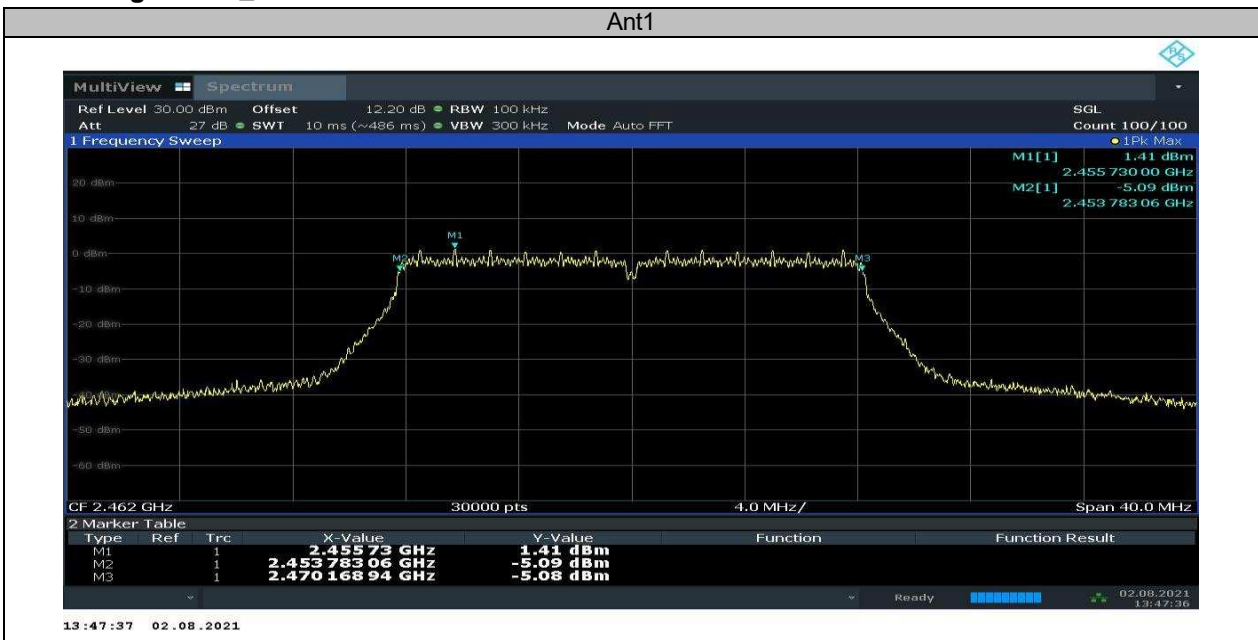




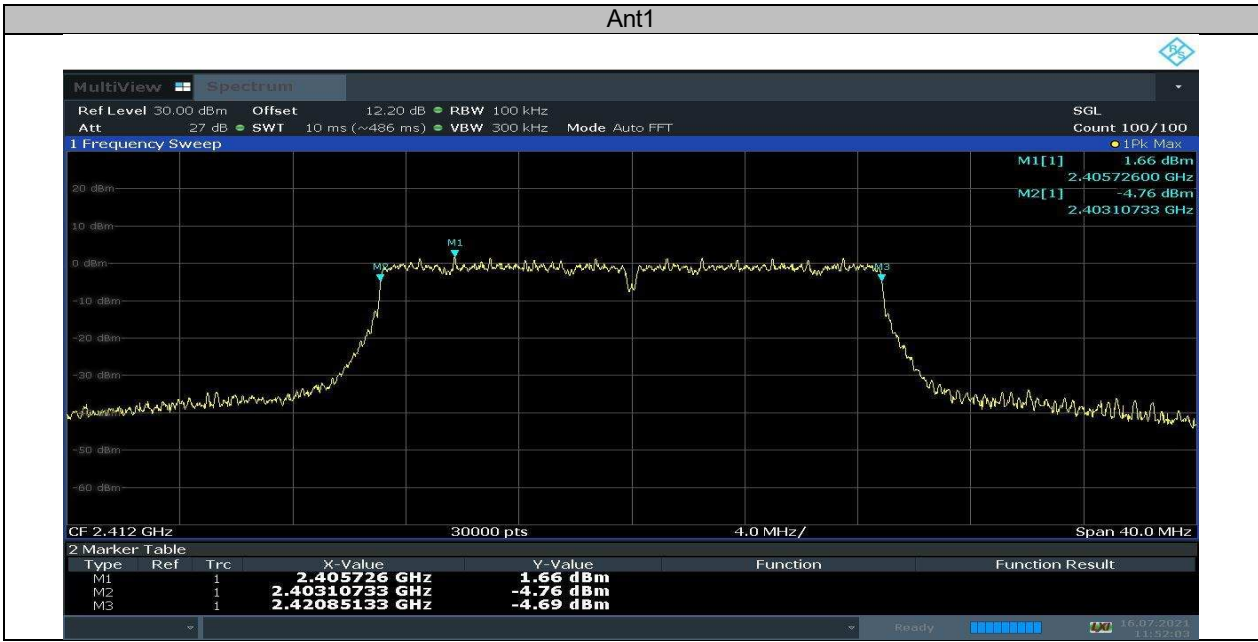
### 1.2.5 11g20SISO\_2437



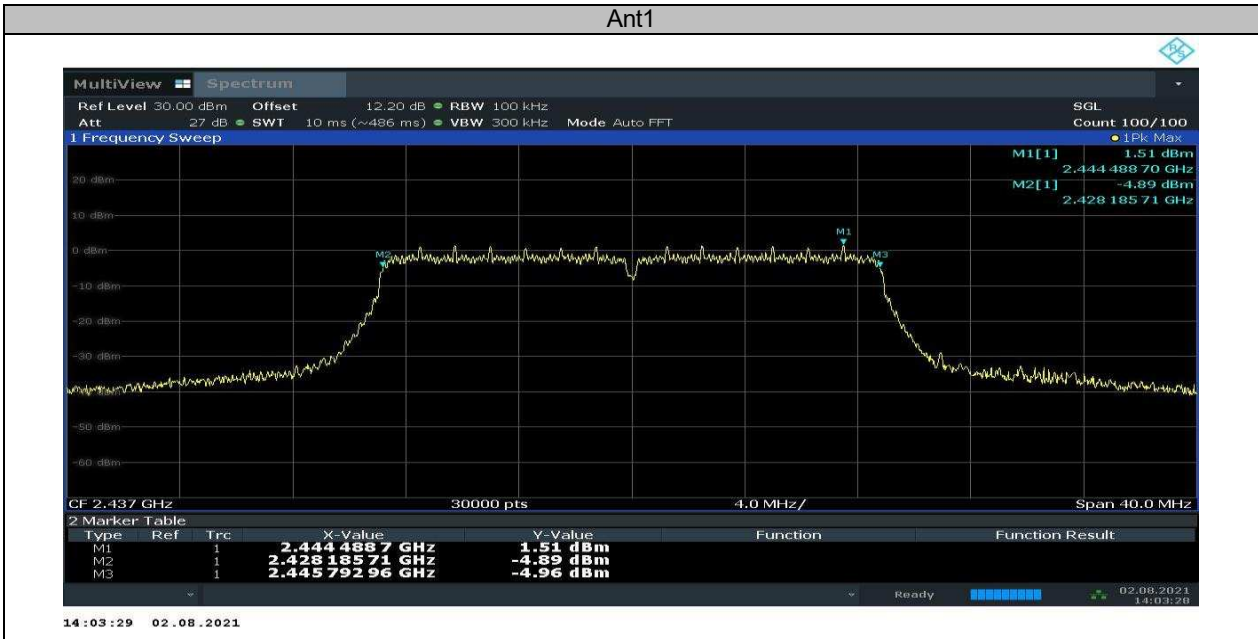
### 1.2.6 11g20SISO\_2462



1.2.7 11n20SISO\_2412

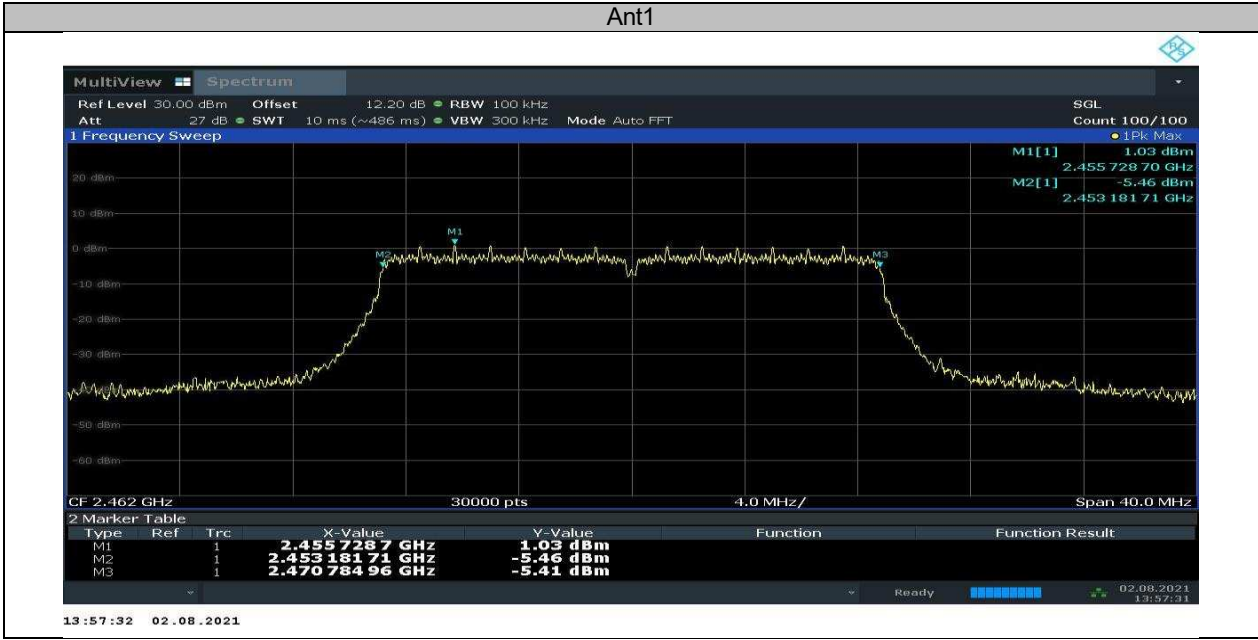


1.2.8 11n20SISO\_2437





1.2.9 11n20SISO\_2462





## 2 Appendix B: Occupied Channel Bandwidth

### 2.1 Test Result

#### 2.1.1 11b20SISO

Test Mode	Channel	Antenna	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B20SISO	2412	Ant1	11.41	2406.27	2417.68	---	PASS
	2437	Ant1	11.18	2431.4	2442.58	---	PASS
	2462	Ant1	11.21	2456.35	2467.56	---	PASS

#### 2.1.2 11g20SISO

Test Mode	Channel	Antenna	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11G20SISO	2412	Ant1	16.71	2403.63	2420.33	---	PASS
	2437	Ant1	16.72	2428.63	2445.35	---	PASS
	2462	Ant1	16.72	2453.62	2470.34	---	PASS

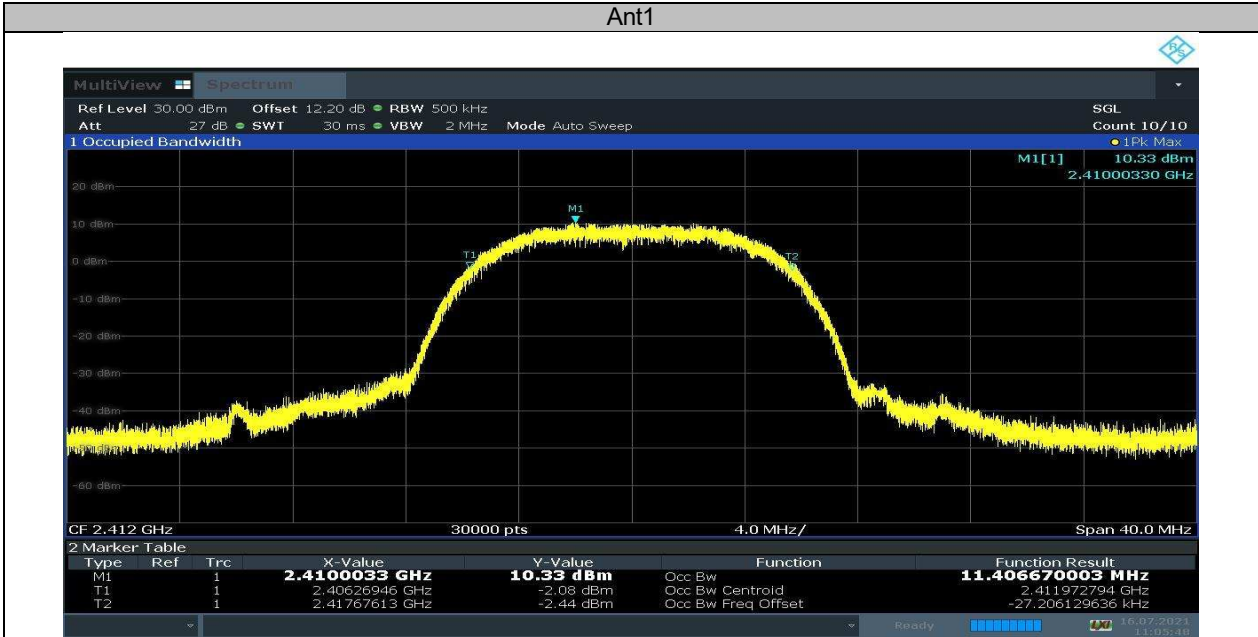
#### 2.1.3 11n20SISO

Test Mode	Channel	Antenna	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11N20SISO	2412	Ant1	17.78	2403.09	2420.88	---	PASS
	2437	Ant1	17.79	2428.1	2445.88	---	PASS
	2462	Ant1	17.76	2453.09	2470.85	---	PASS



## 2.2 Test Graphs

### 2.2.1 11b20SISO\_2412



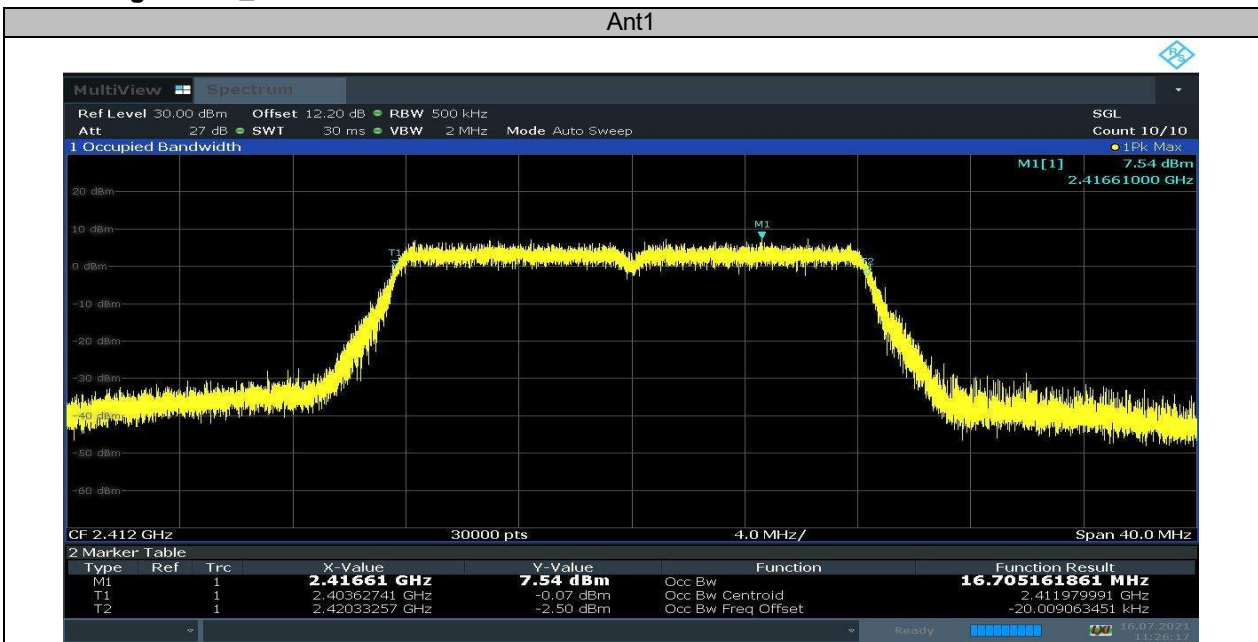
### 2.2.2 11b20SISO\_2437



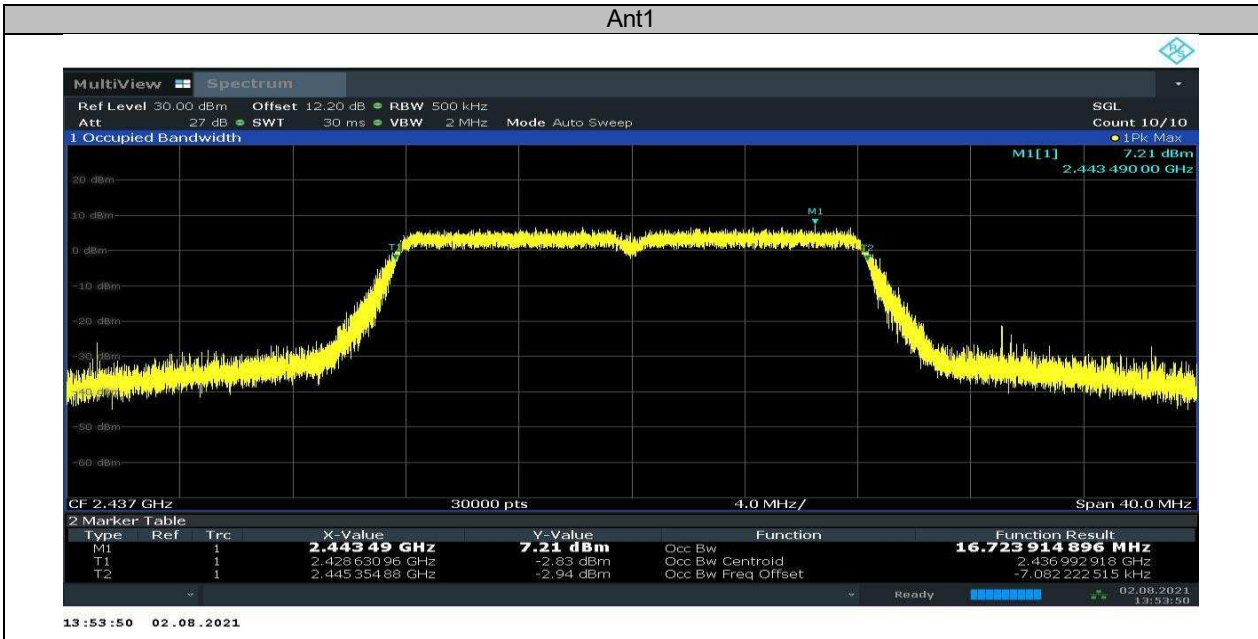
2.2.3 11b20SISO\_2462



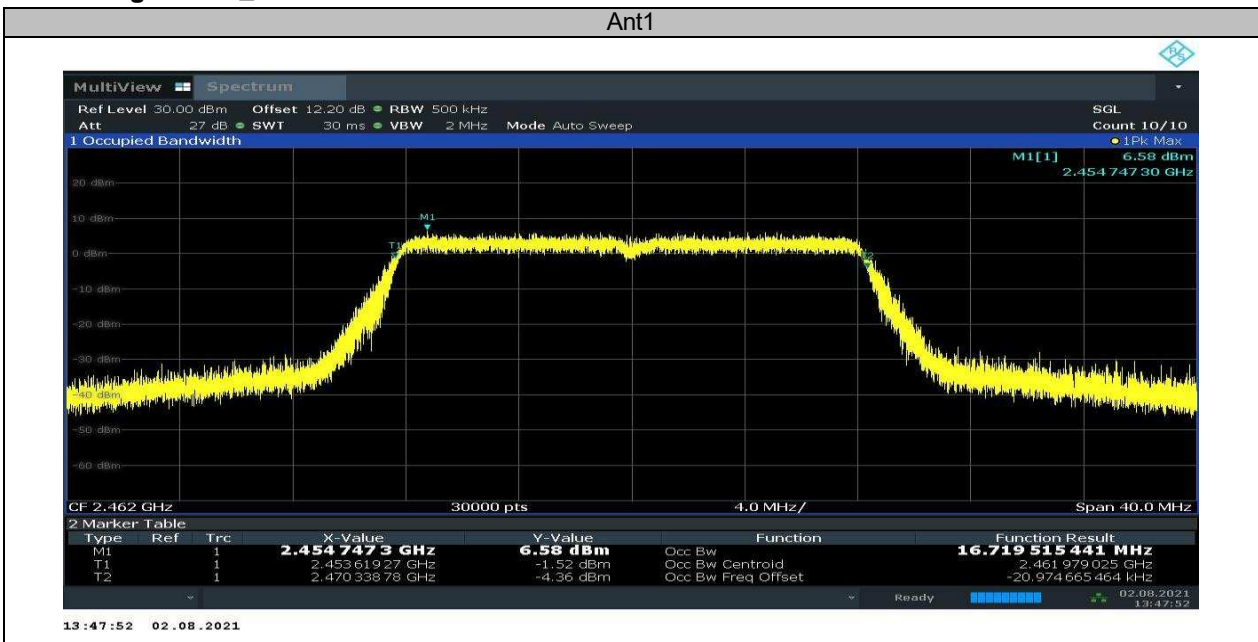
2.2.4 11g20SISO\_2412



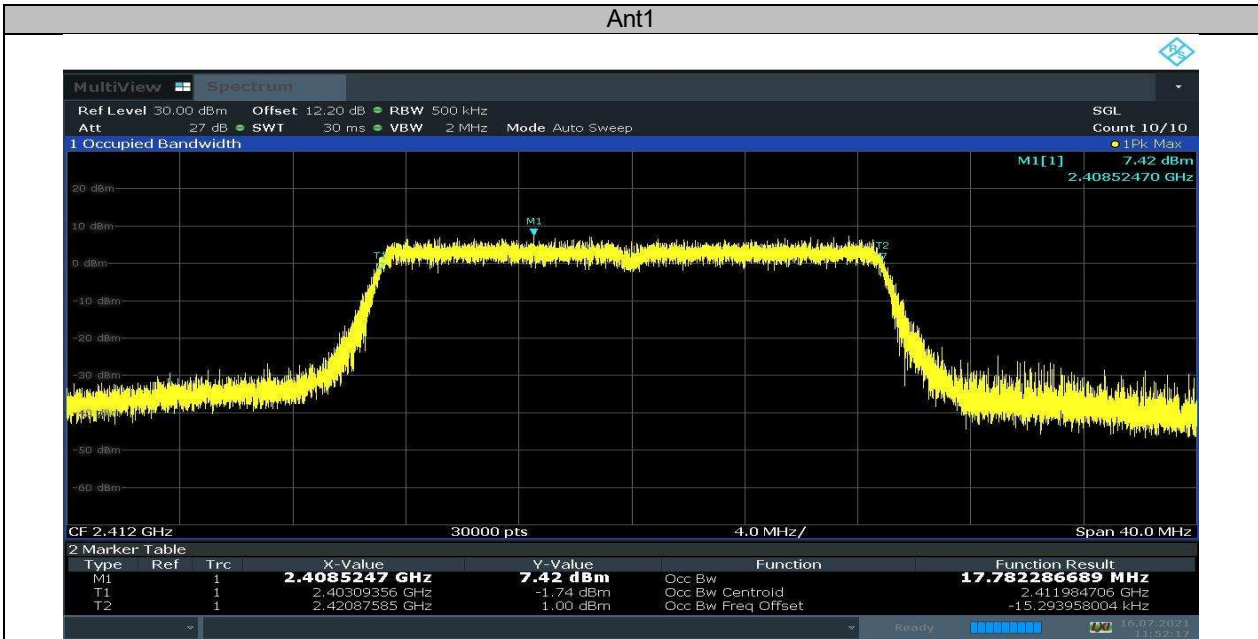
2.2.5 11g20SISO\_2437



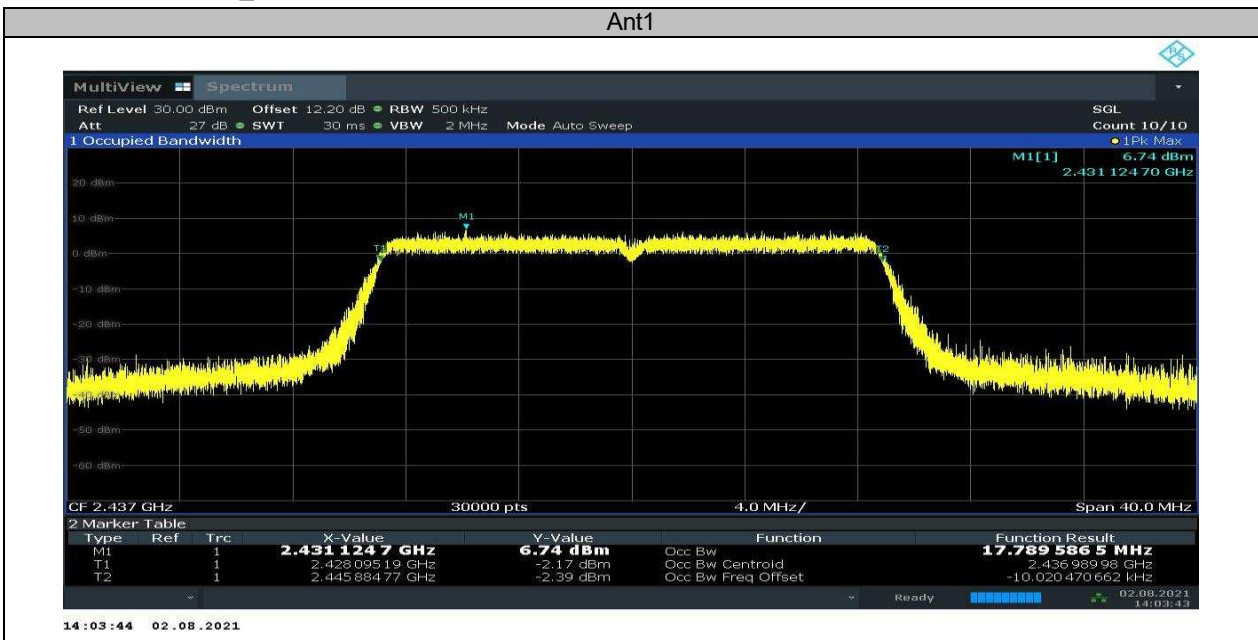
2.2.6 11g20SISO\_2462



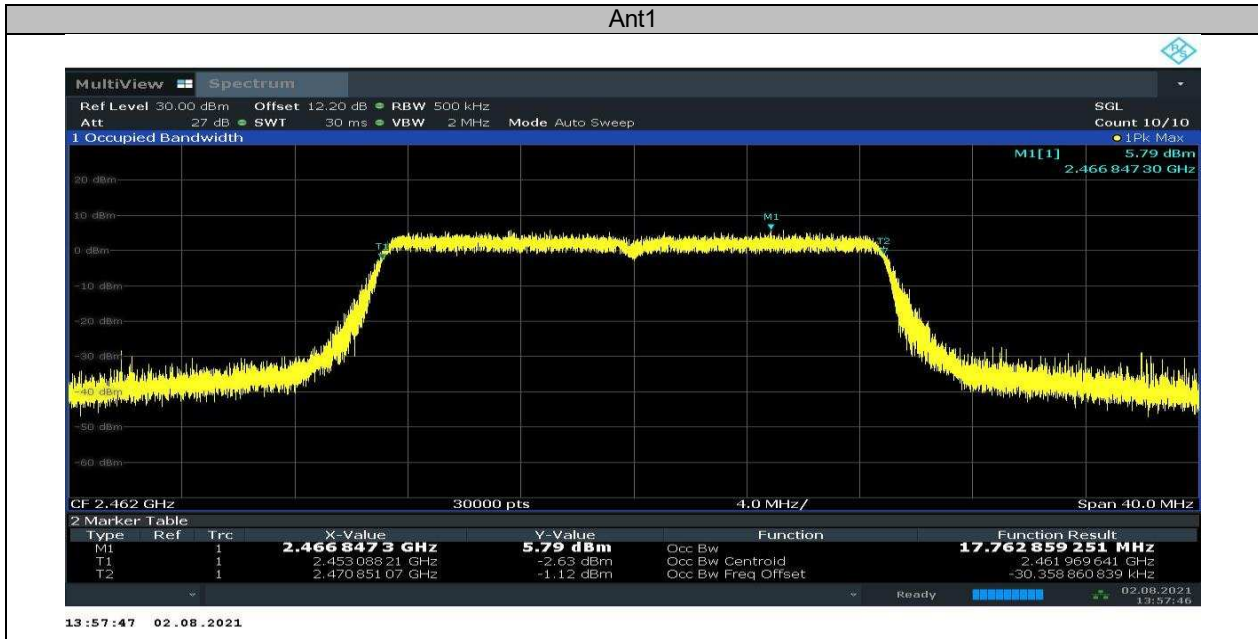
2.2.7 11n20SISO\_2412



2.2.8 11n20SISO\_2437



## 2.2.9 11n20SISO\_2462





### 3 Appendix C: Duty Cycle

#### 3.1 Test Result

##### 3.1.1 11b20SISO

Test Mode	Channel	Antenna	Transmission Duration [ms]	Transmission Period [ms]	Duty cycle [%]	Limit	Verdict
11B20SISO	2437	Ant1	16.41	16.44	99.84	---	PASS

##### 3.1.2 11g20SISO

Test Mode	Channel	Antenna	Transmission Duration [ms]	Transmission Period [ms]	Duty cycle [%]	Limit	Verdict
11G20SISO	2437	Ant1	2.73	2.77	98.73	---	PASS

##### 3.1.3 11n20SISO

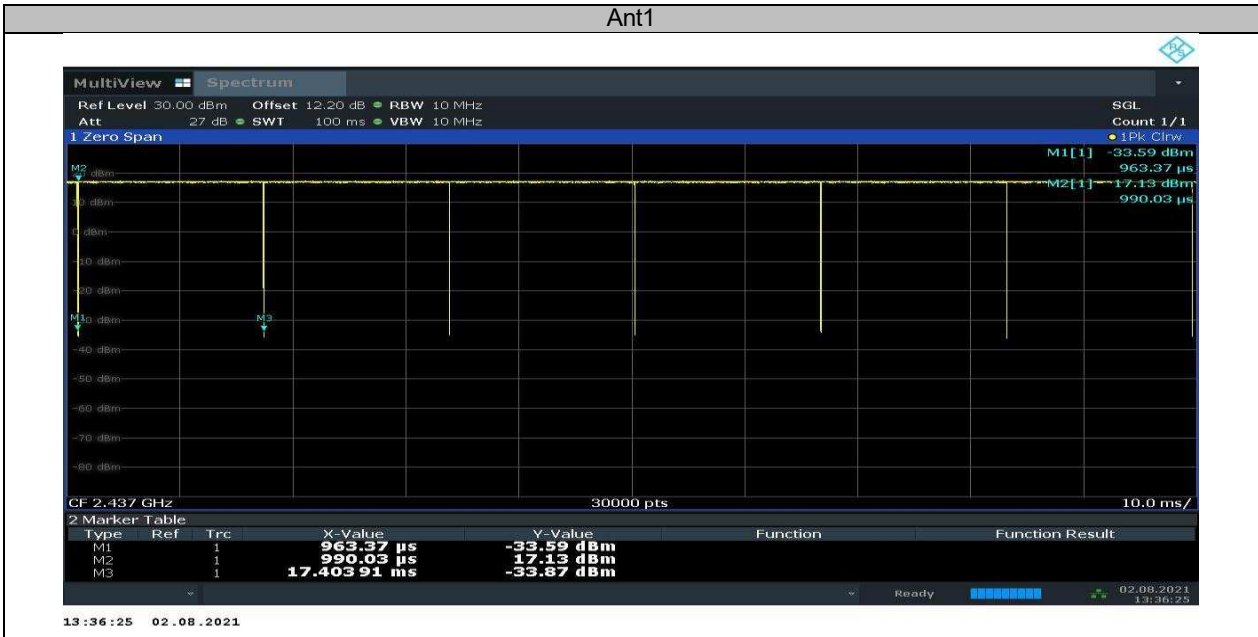
Test Mode	Channel	Antenna	Transmission Duration [ms]	Transmission Period [ms]	Duty cycle [%]	Limit	Verdict
11N20SISO	2437	Ant1	2.54	2.57	98.68	---	PASS



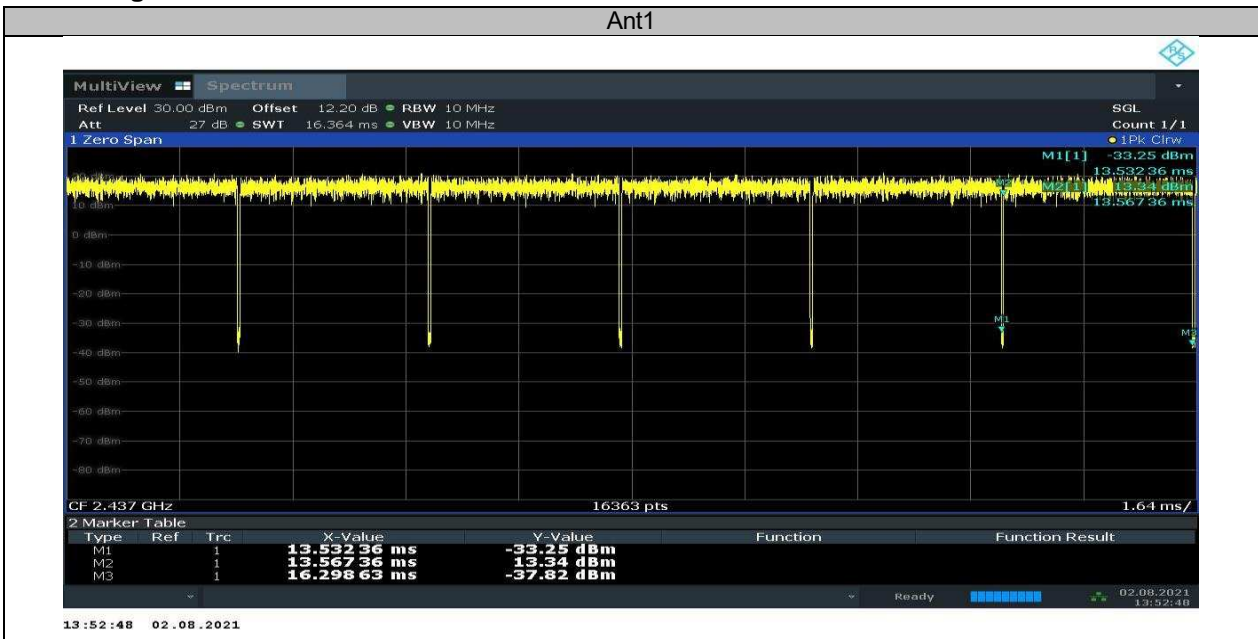


### 3.2 Test Graphs

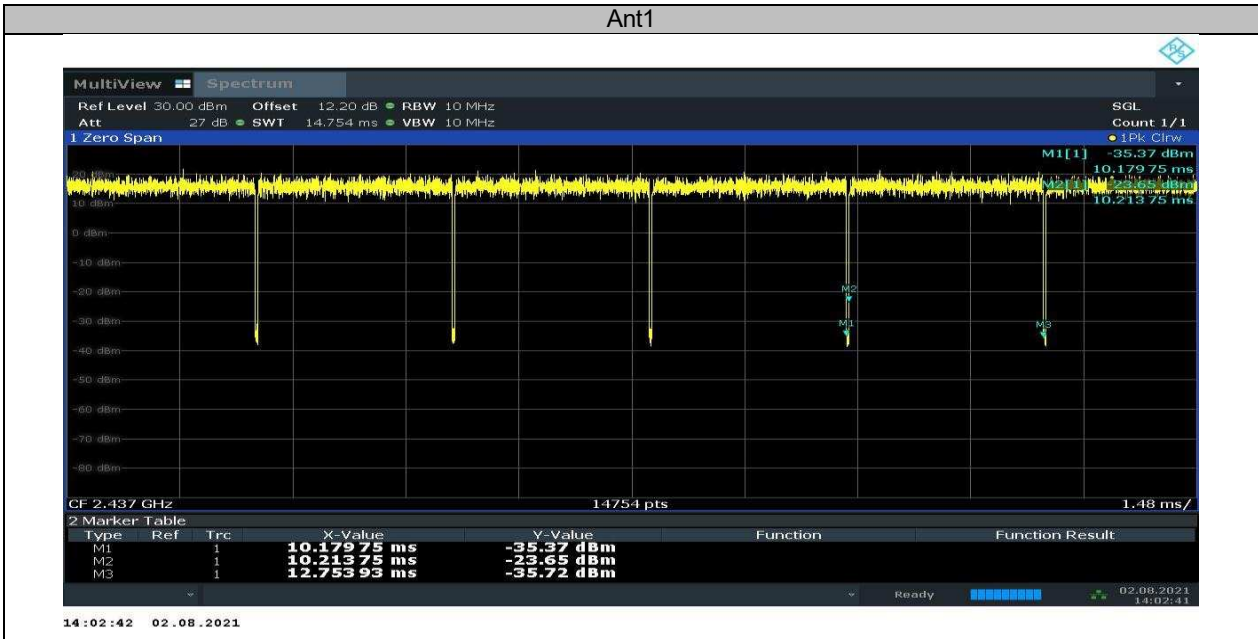
#### 3.2.1 11b20SISO\_2437



#### 3.2.2 11g20SISO\_2437



3.2.3 11n20SISO\_2437







## 4 Appendix D : Maximum Average Output Power

### 4.1 Test Result

Note1: The Duty Cycle Factor is compensated in the Conducted Result.

#### 4.1.1 11b20SISO

Test Mode	Channel	Antenna	Conducted Result[dBm]	Conducted Limit[dBm]	EIRP Result[dBm]	EIRP Limit[dBm]	Verdict
11B20SISO	2412	Ant1	15.79	30	12.79	36	PASS
	2437	Ant1	15.0	30	12.0	36	PASS
	2462	Ant1	14.43	30	11.43	36	PASS

#### 4.1.2 11g20SISO

Test Mode	Channel	Antenna	Conducted Result[dBm]	Conducted Limit[dBm]	EIRP Result[dBm]	EIRP Limit[dBm]	Verdict
11G20SISO	2412	Ant1	13.36	30	10.36	36	PASS
	2437	Ant1	13.41	30	10.41	36	PASS
	2462	Ant1	13.92	30	10.92	36	PASS

#### 4.1.3 11n20SISO

Test Mode	Channel	Antenna	Conducted Result[dBm]	Conducted Limit[dBm]	EIRP Result[dBm]	EIRP Limit[dBm]	Verdict
11N20SISO	2412	Ant1	13.76	30	10.76	36	PASS
	2437	Ant1	13.1	30	10.1	36	PASS
	2462	Ant1	13.53	30	13.53	36	PASS



## 5 Appendix E: Maximum Power Spectral Density Level

### 5.1 Test Result

Note1: The Duty Cycle Factor is compensated in the Conducted Result.

#### 5.1.1 11b20SISO

Test Mode	Channel	Antenna	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
11B20SISO	2412	Ant1	-13.51	8	PASS
	2437	Ant1	-14.73	8	PASS
	2462	Ant1	-14.93	8	PASS

#### 5.1.2 11g20SISO

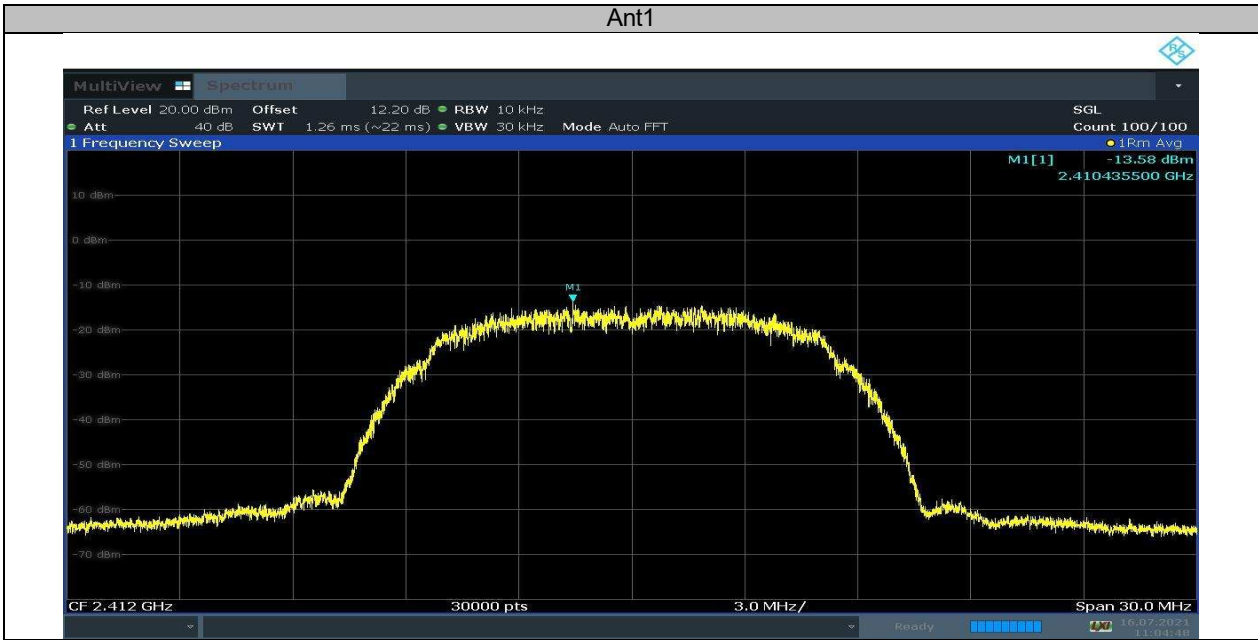
Test Mode	Channel	Antenna	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
11G20SISO	2412	Ant1	-16.72	8	PASS
	2437	Ant1	-17.3	8	PASS
	2462	Ant1	-16.65	8	PASS

#### 5.1.3 11n20SISO

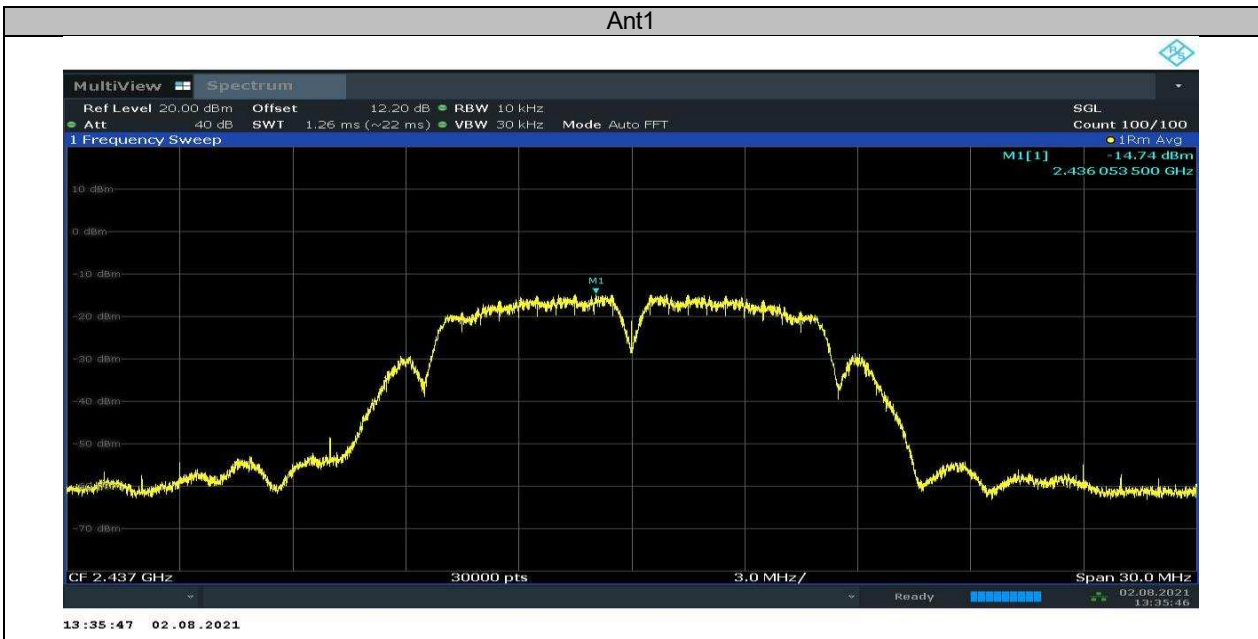
Test Mode	Channel	Antenna	Result[dBm/10kHz]	Limit[dBm/3kHz]	Verdict
11N20SISO	2412	Ant1	-16.81	8	PASS
	2437	Ant1	-17.79	8	PASS
	2462	Ant1	-16.89	8	PASS

## 5.2 Test Graphs

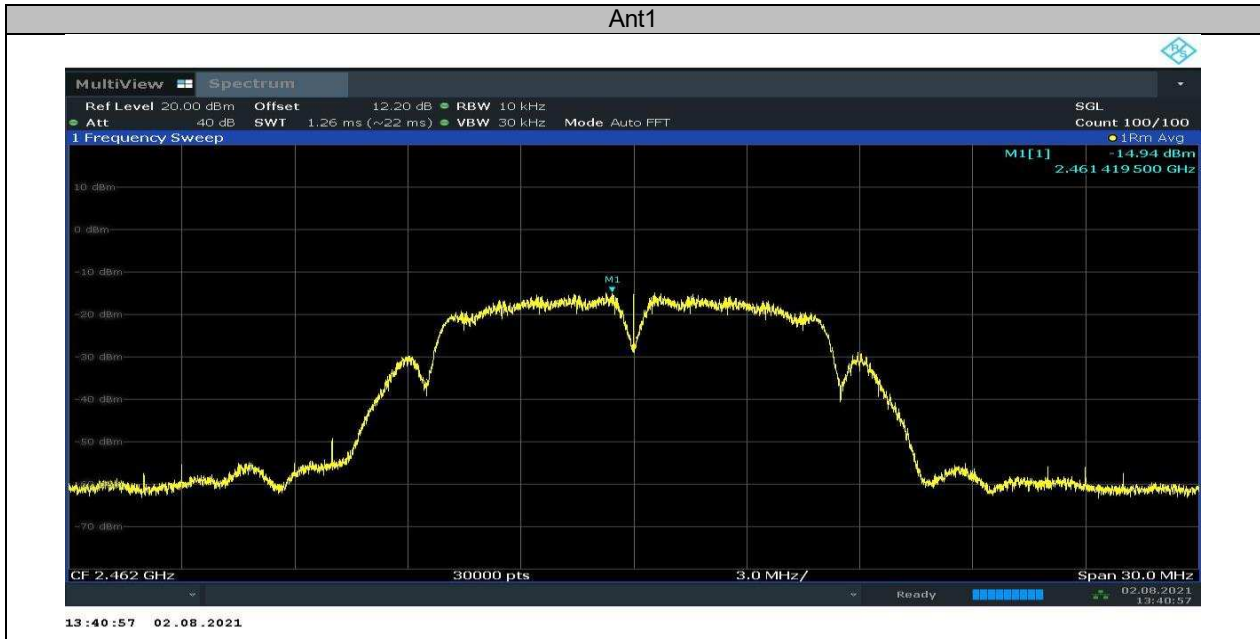
### 5.2.1 11b20SISO\_2412



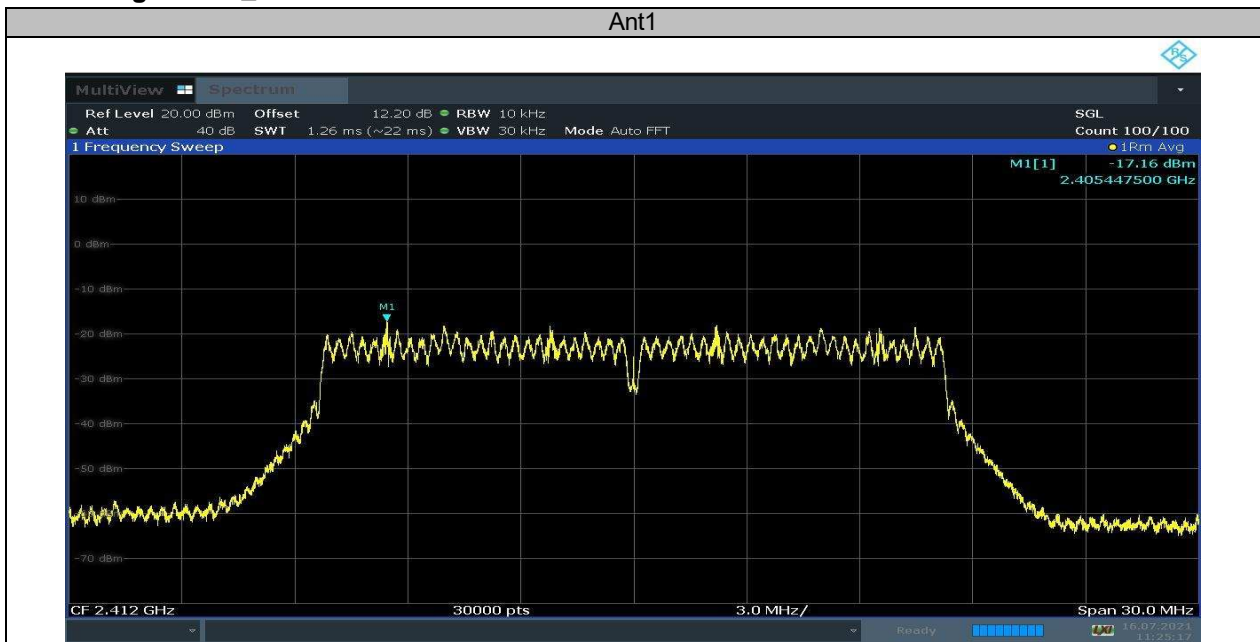
### 5.2.2 11b20SISO\_2437



### 5.2.3 11b20SISO\_2462



### 5.2.4 11g20SISO\_2412



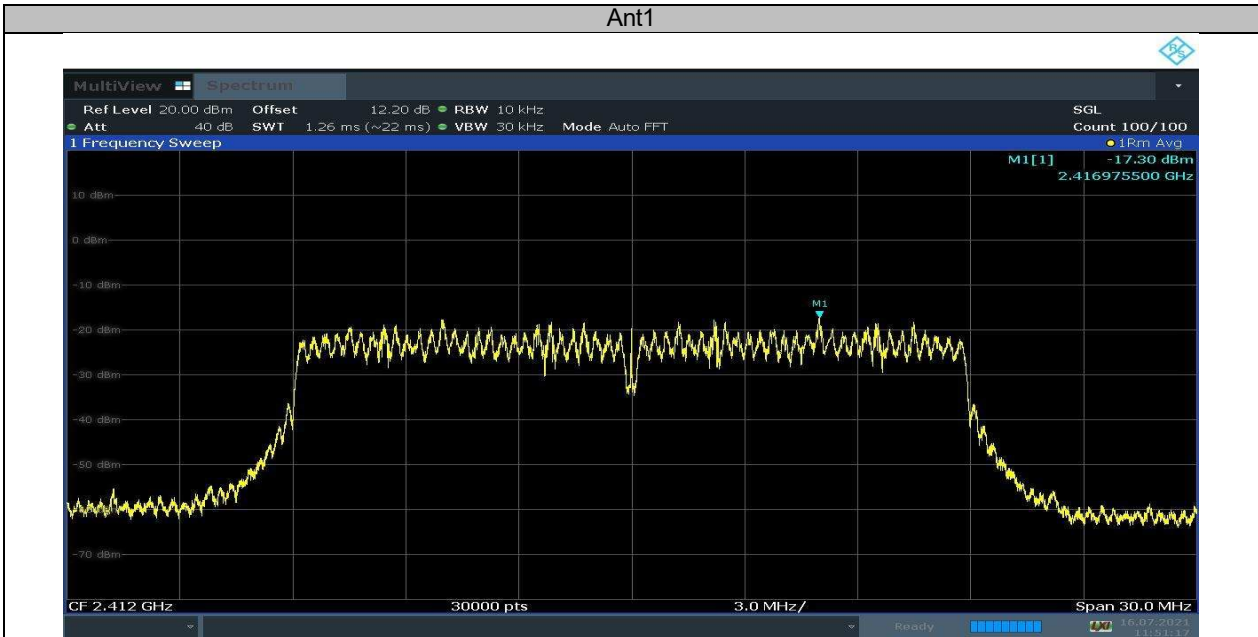
### 5.2.5 11g20SISO\_2437



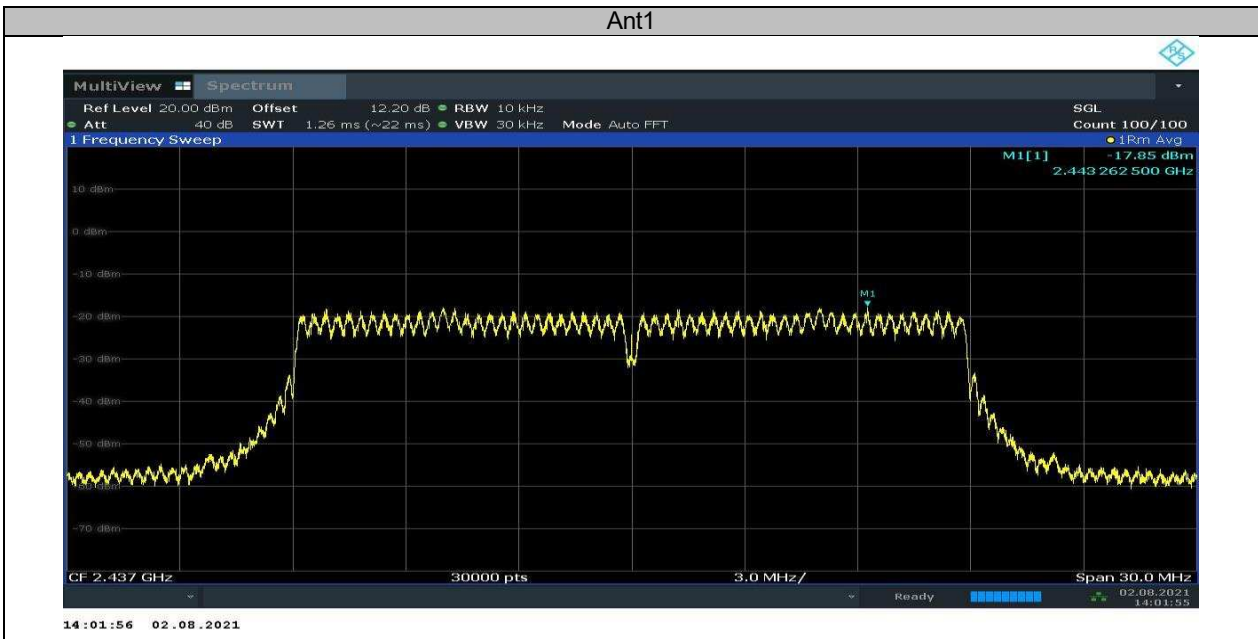
### 5.2.6 11g20SISO\_2462



### 5.2.7 11n20SISO\_2412

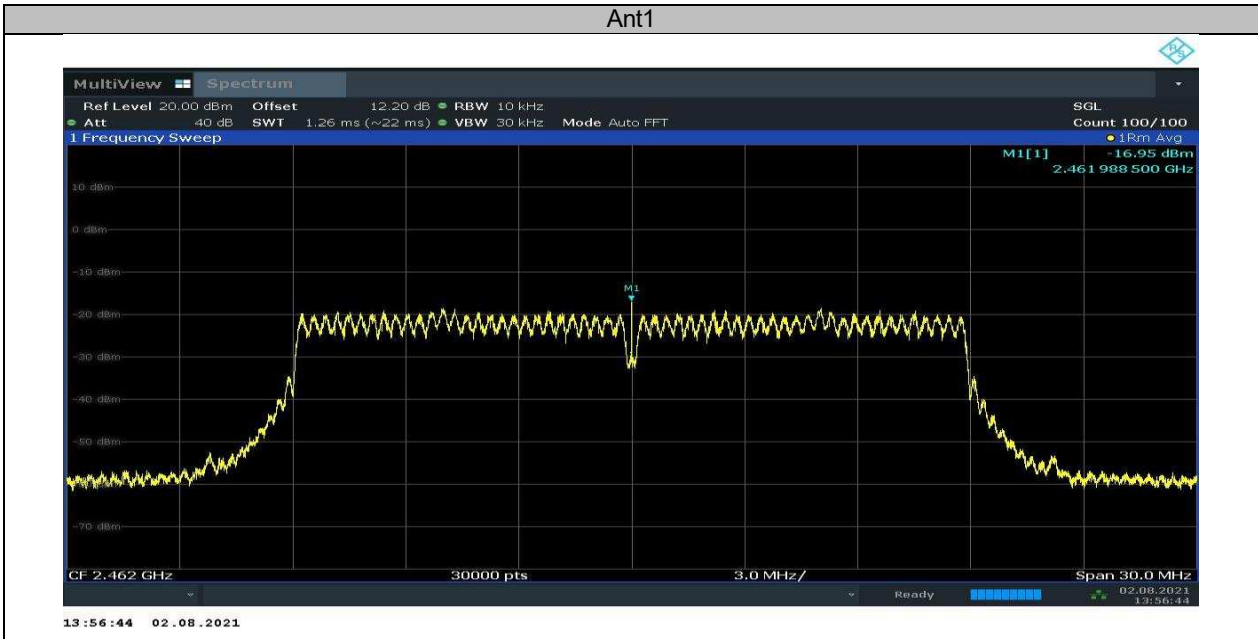


### 5.2.8 11n20SISO\_2437





### 5.2.9 11n20SISO\_2462





## 6 Appendix F: Band Edges Compliance

### 6.1 Test Results

#### 6.1.1 11b20SISO

Test Mode	Channel	ChName	Antenna	RefLevel[dBm]	Result-left[dBm]	Result-right[dBm]	Limit[dBm]	Verdict
11B20SISO	2412	Low	Ant1	4.68	-44.71	-51.87	-25.32	PASS
	2462	High	Ant1	4.32	-51.36	-48.37	-25.62	PASS

#### 6.1.2 11g20SISO

Test Mode	Channel	ChName	Antenna	RefLevel[dBm]	Result-left[dBm]	Result-right[dBm]	Limit[dBm]	Verdict
11G20SISO	2412	Low	Ant1	0.91	-36.86	-53.25	-29.09	PASS
	2462	High	Ant1	-1.37	-51.73	-47.18	-29.98	PASS

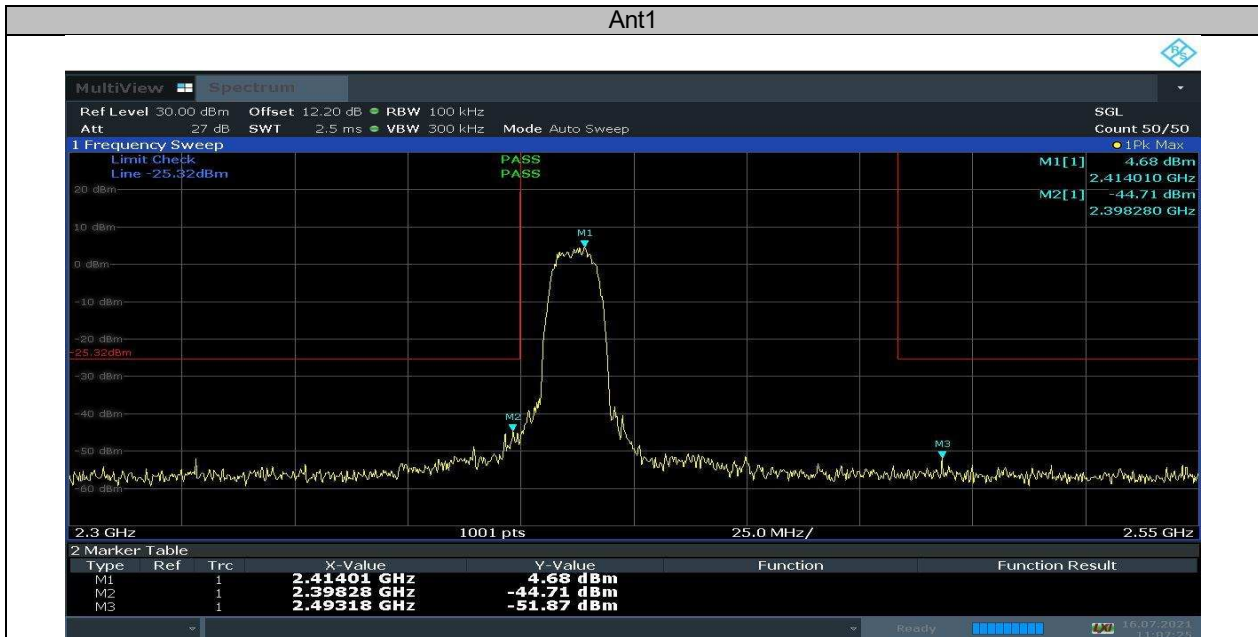
#### 6.1.3 11n20SISO

Test Mode	Channel	ChName	Antenna	RefLevel[dBm]	Result-left[dBm]	Result-right[dBm]	Limit[dBm]	Verdict
11N20SISO	2412	Low	Ant1	0.94	-36.78	-52.43	-29.06	PASS
	2462	High	Ant1	-2.17	-51.9	-45.73	-29.62	PASS

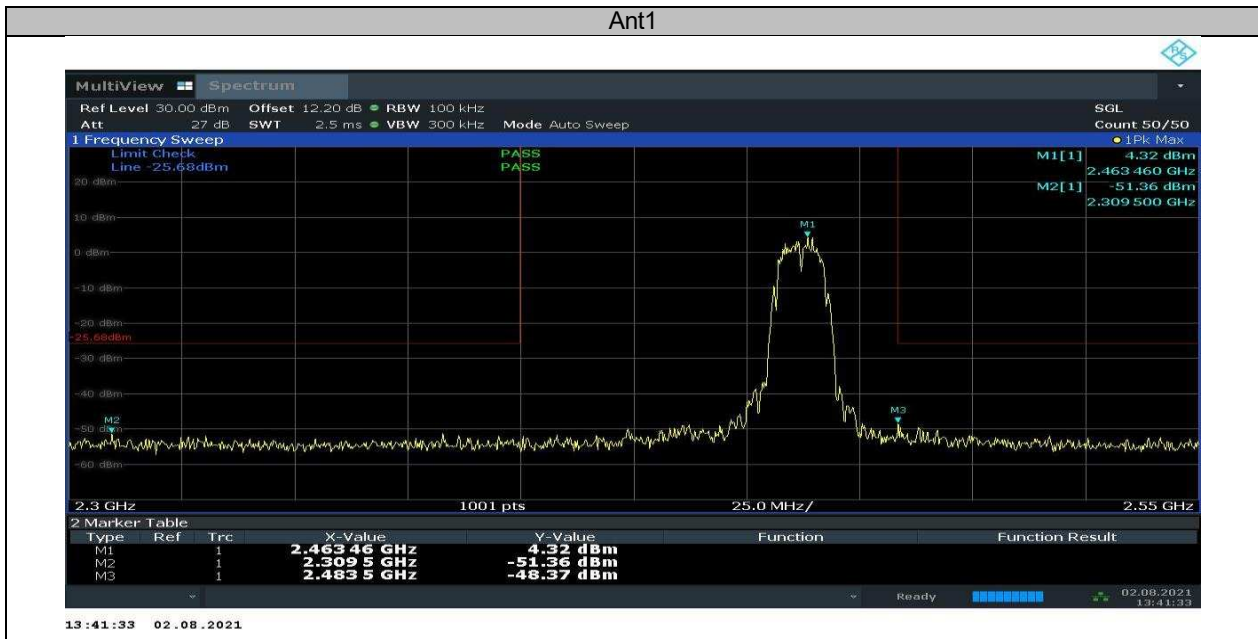


## 6.2 Test Graphs

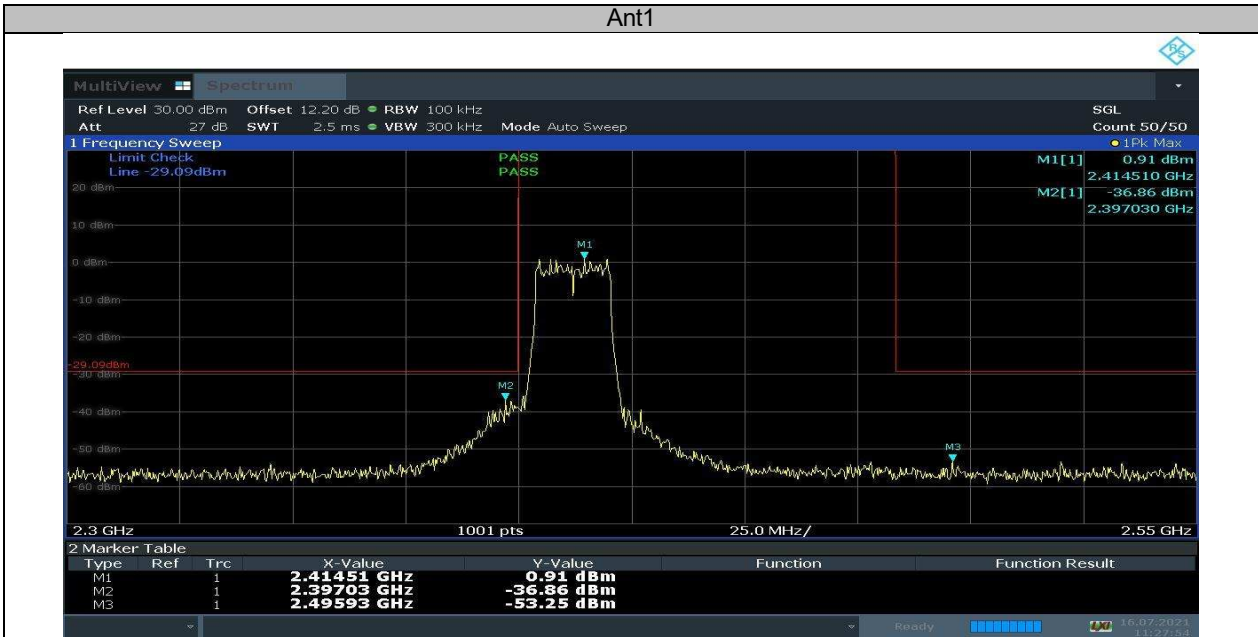
### 6.2.1 11b20SISO\_2412



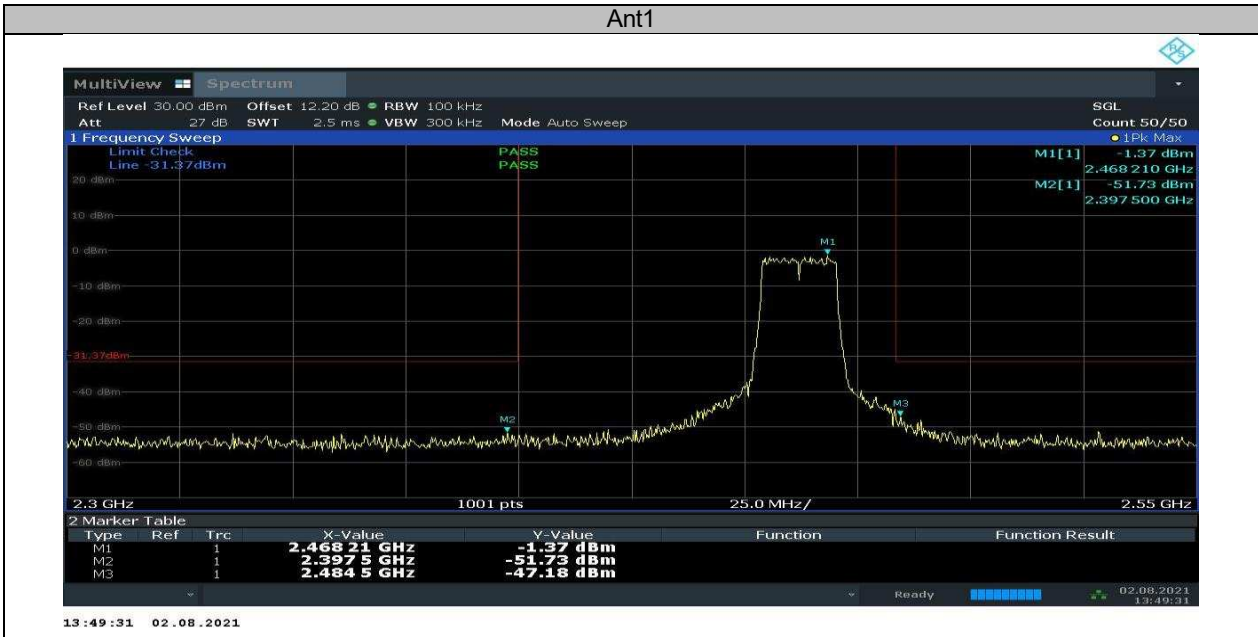
### 6.2.2 11b20SISO\_2462



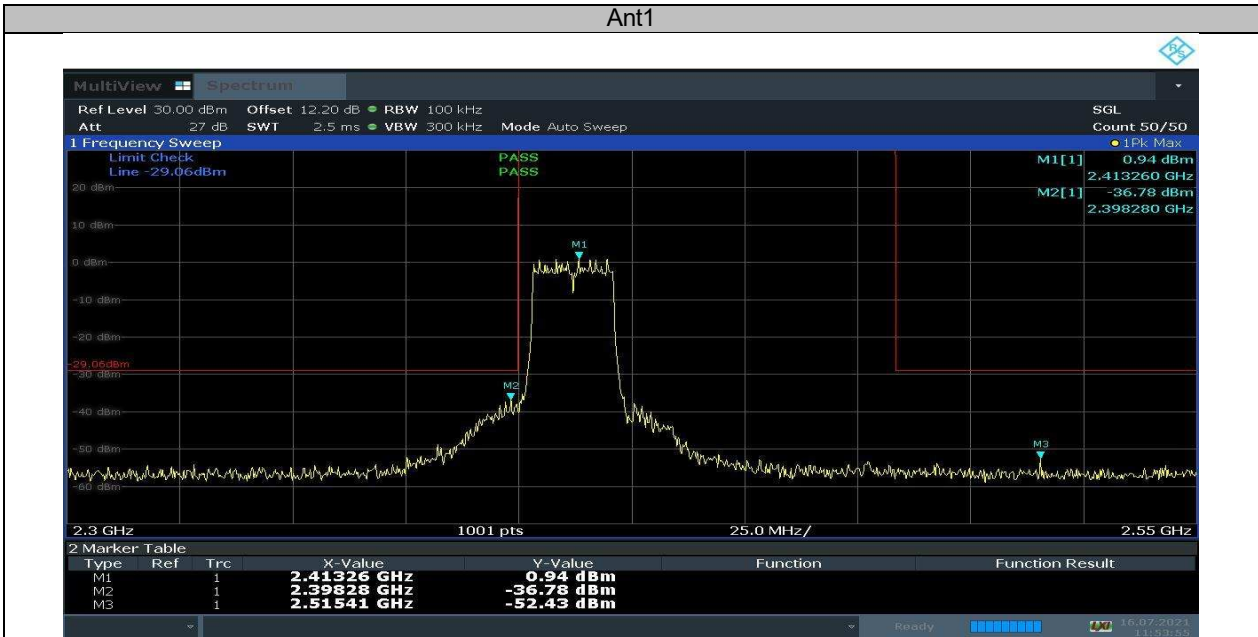
### 6.2.3 11g20SISO\_2412



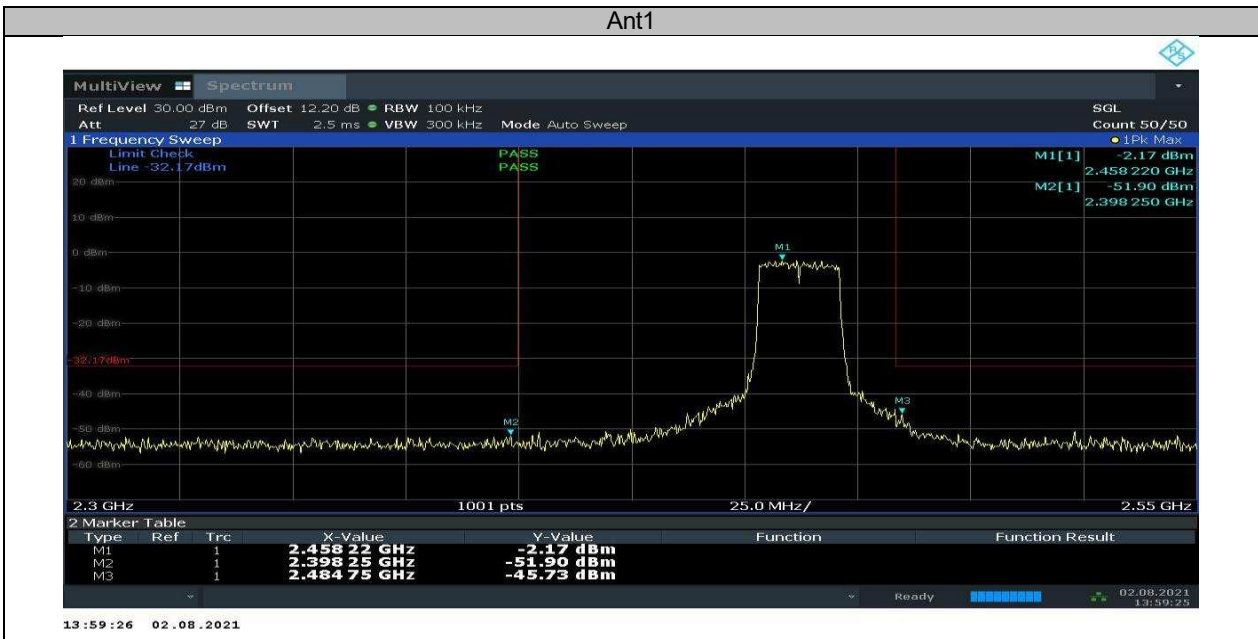
### 6.2.4 11g20SISO\_2462



6.2.5 11n20SISO\_2412



6.2.6 11n20SISO\_2462





## 7 Appendix G: Unwanted Emissions into Non-Restricted Frequency Bands

### 7.1 Test Results

#### 7.1.1 11b20SISO

Test Mode	Channel	Antenna	RefLevel[dBm/100kHz]	Result[dBm]	Limit[dBm/100kHz]	Verdict
11B20SISO	2412	Ant1	5.76	<limit	-24.24	PASS
	2437	Ant1	6.65	<limit	-23.35	PASS
	2462	Ant1	5.03	<limit	-24.97	PASS

#### 7.1.2 11g20SISO

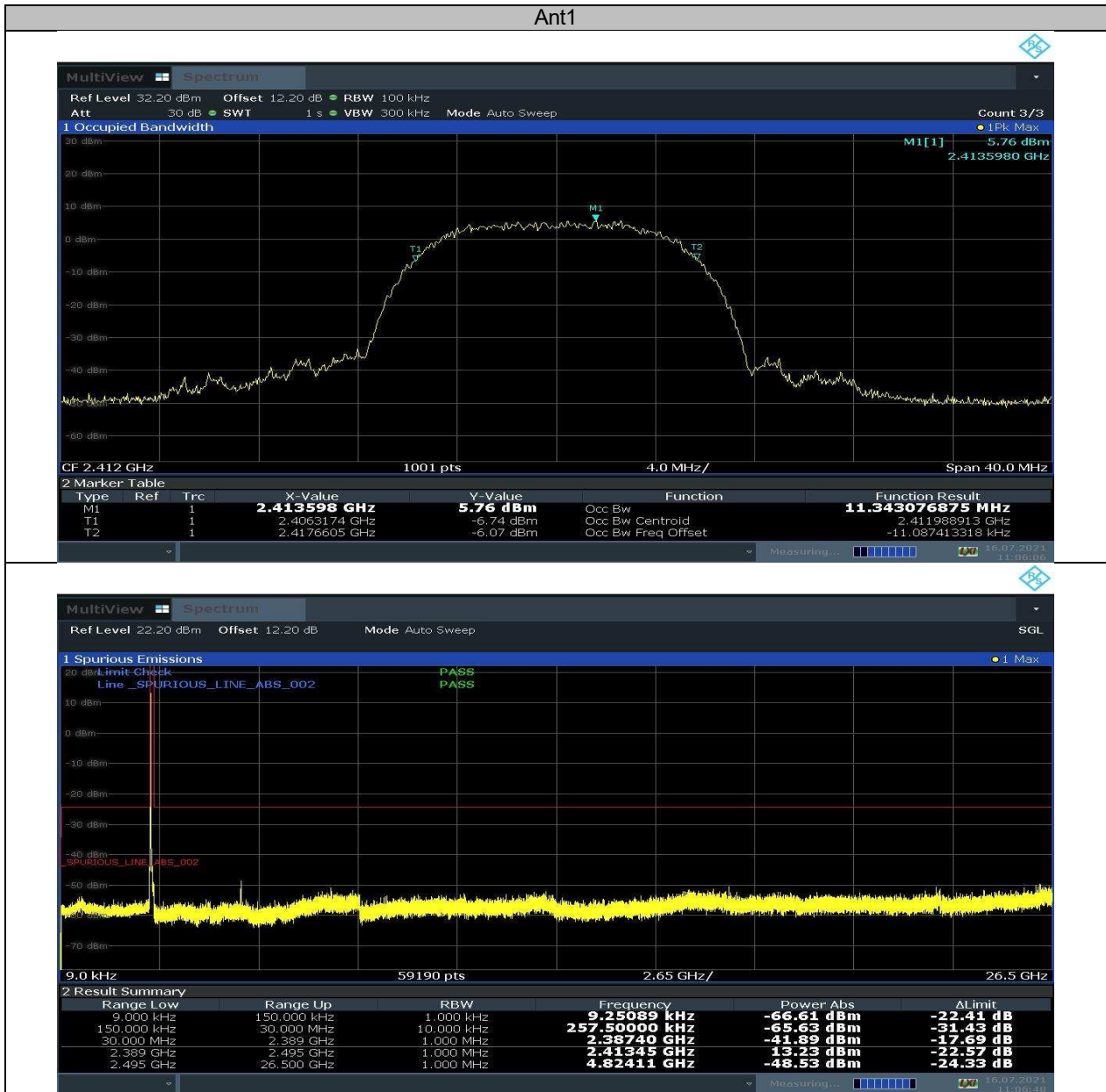
Test Mode	Channel	Antenna	RefLevel[dBm/100kHz]	Result[dBm]	Limit[dBm/100kHz]	Verdict
11G20SISO	2412	Ant1	1.46	<limit	-28.54	PASS
	2437	Ant1	0.79	<limit	-29.21	PASS
	2462	Ant1	1.52	<limit	-28.48	PASS

#### 7.1.3 11n20SISO

Test Mode	Channel	Antenna	RefLevel[dBm/100kHz]	Result[dBm]	Limit[dBm/100kHz]	Verdict
11N20SISO	2412	Ant1	1.63	<limit	-28.37	PASS
	2437	Ant1	1.61	<limit	-28.39	PASS
	2462	Ant1	1.15	<limit	-28.85	PASS

## 7.2 Test Graphs

### 7.2.1 11b20SISO\_2412



7.2.2 11b20SISO\_2437

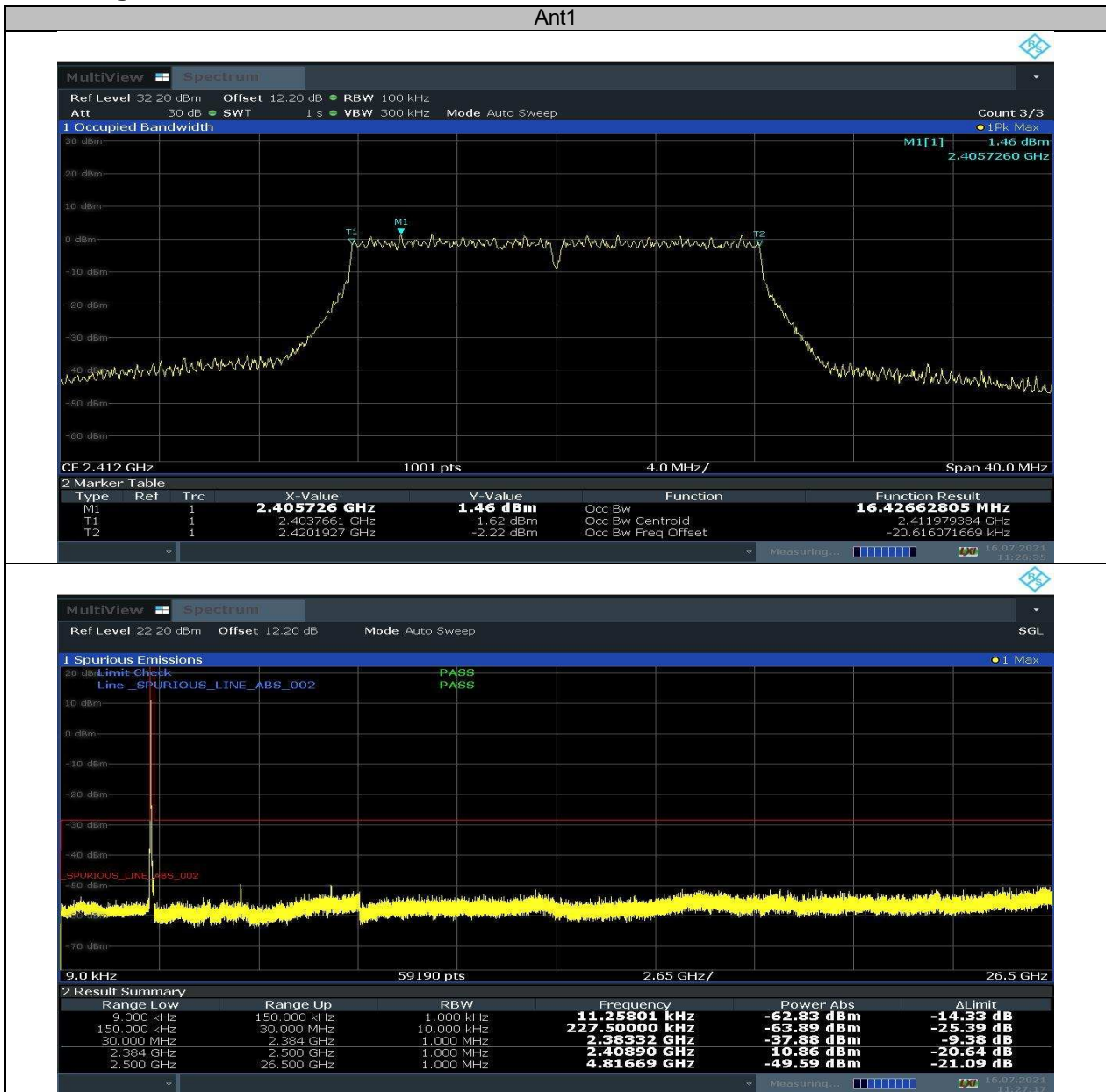




7.2.3 11b20SISO\_2462

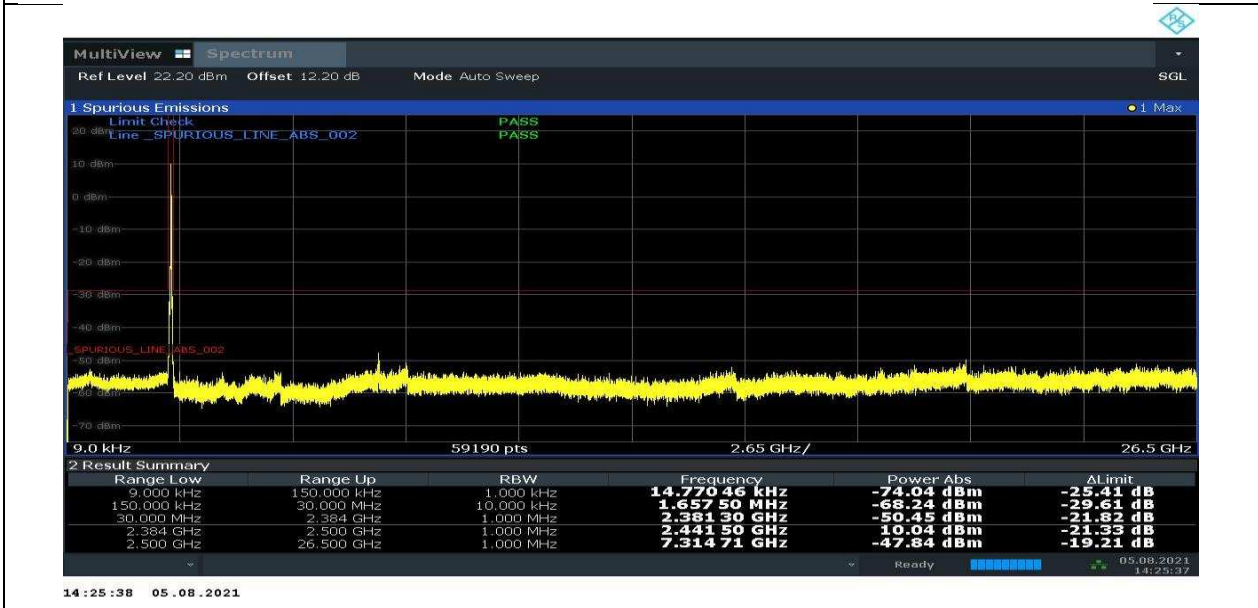


7.2.4 11g20SISO\_2412

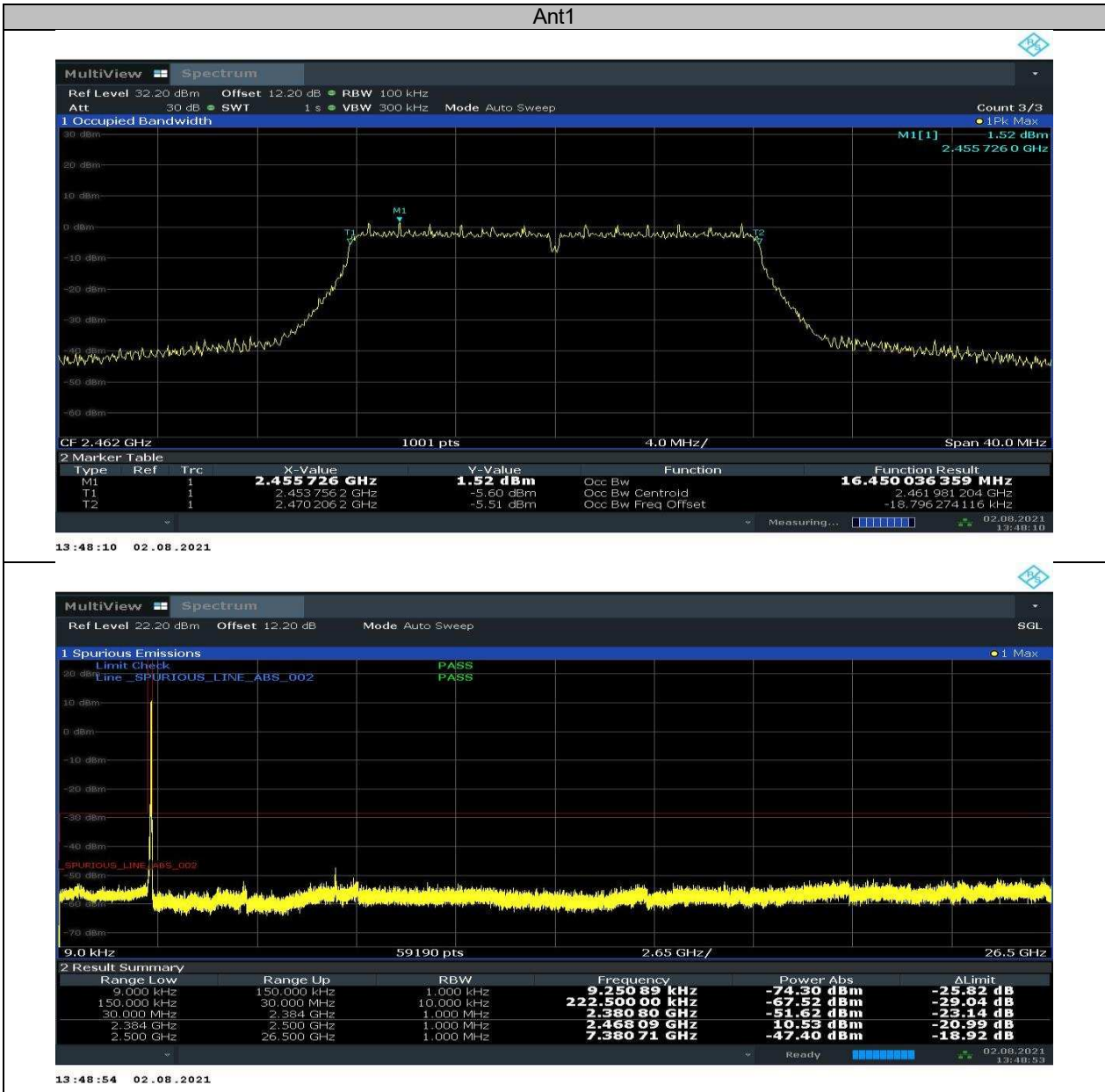




7.2.5 11g20SISO\_2437

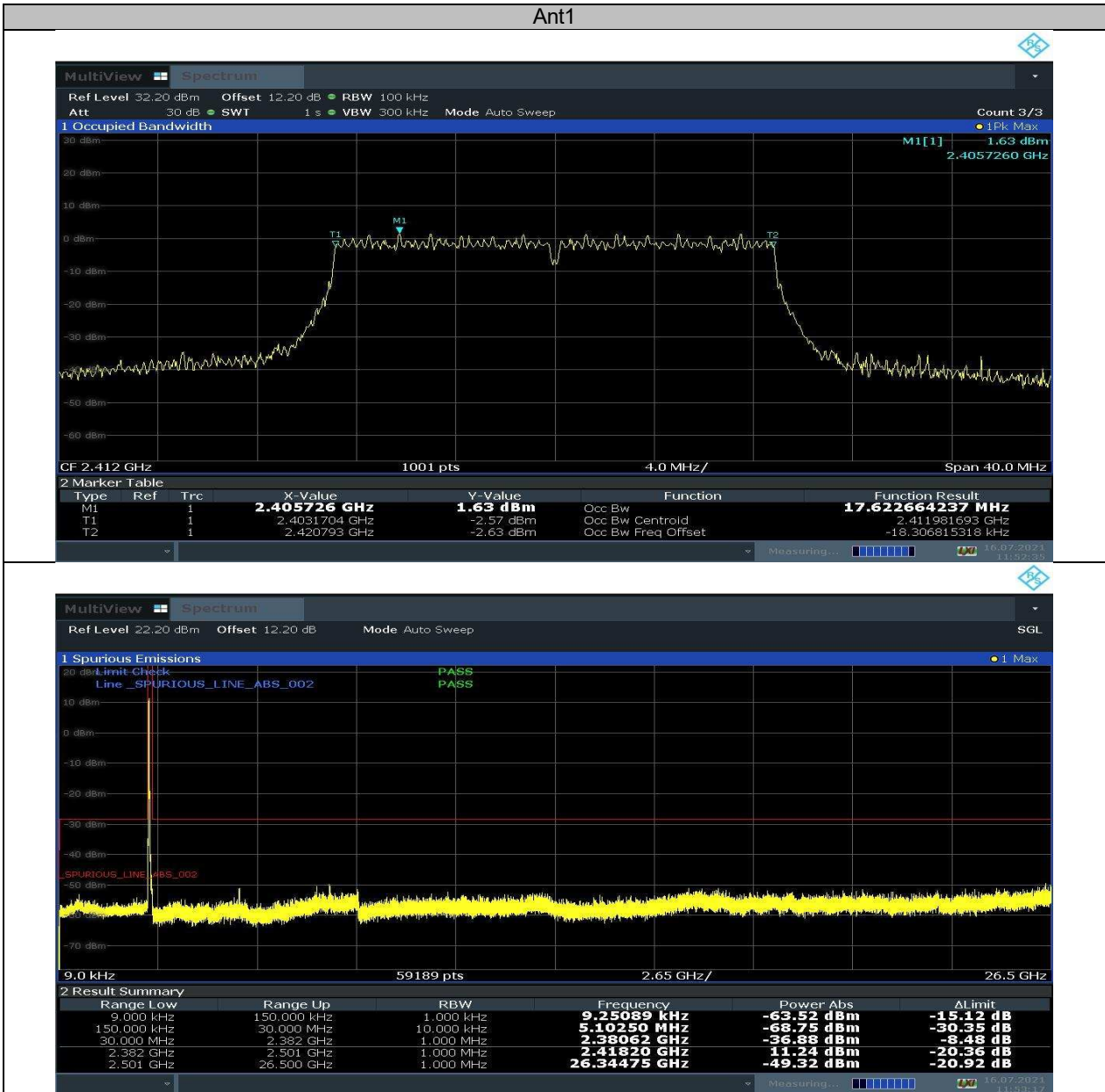


7.2.6 11g20SISO\_2462

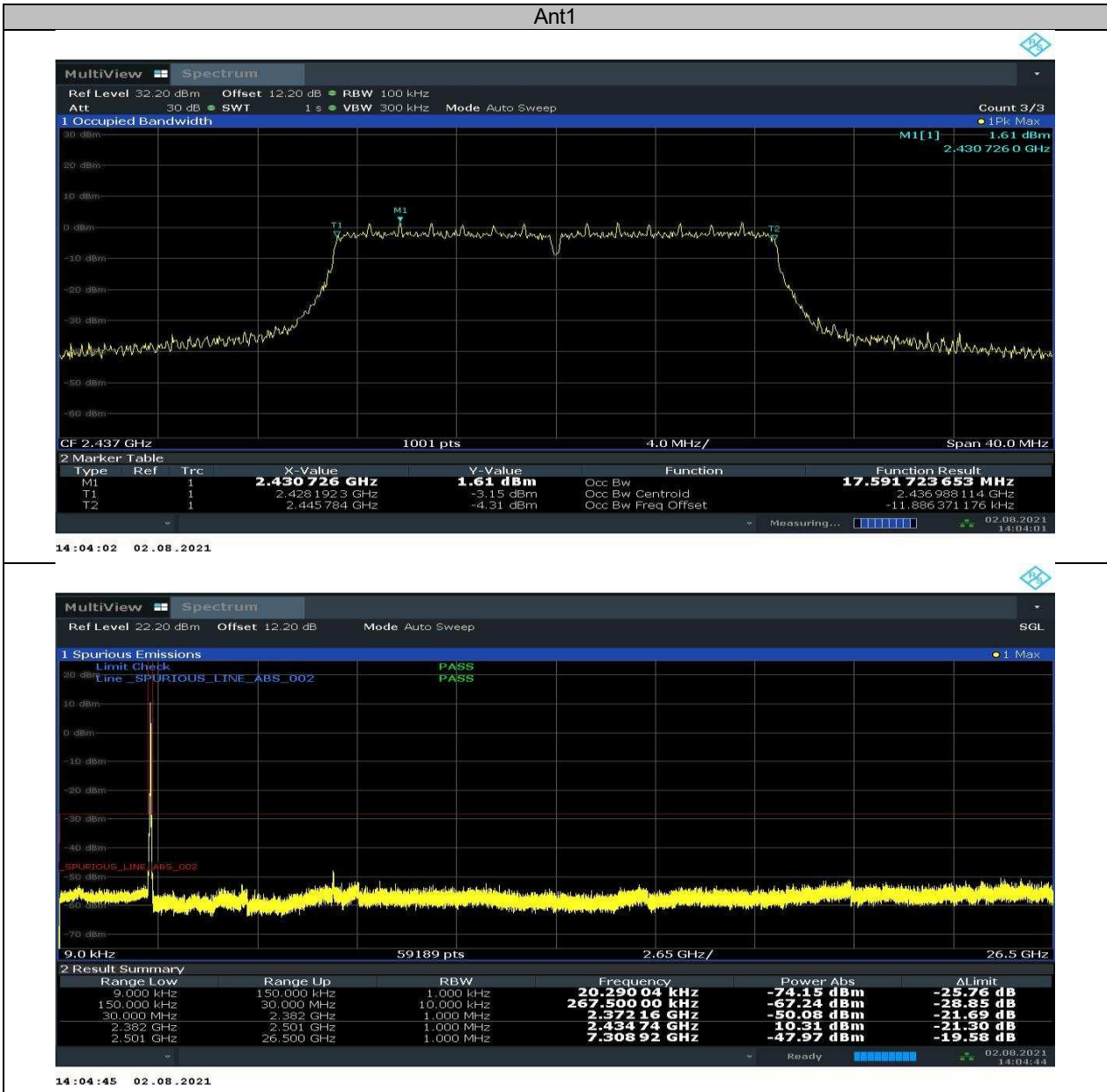




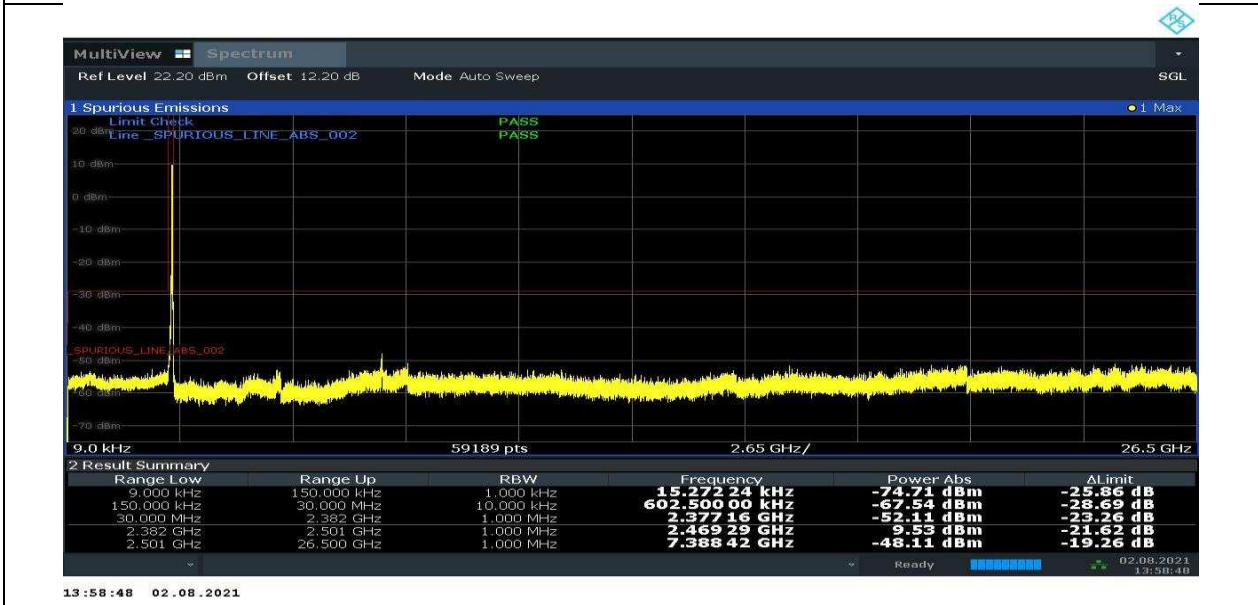
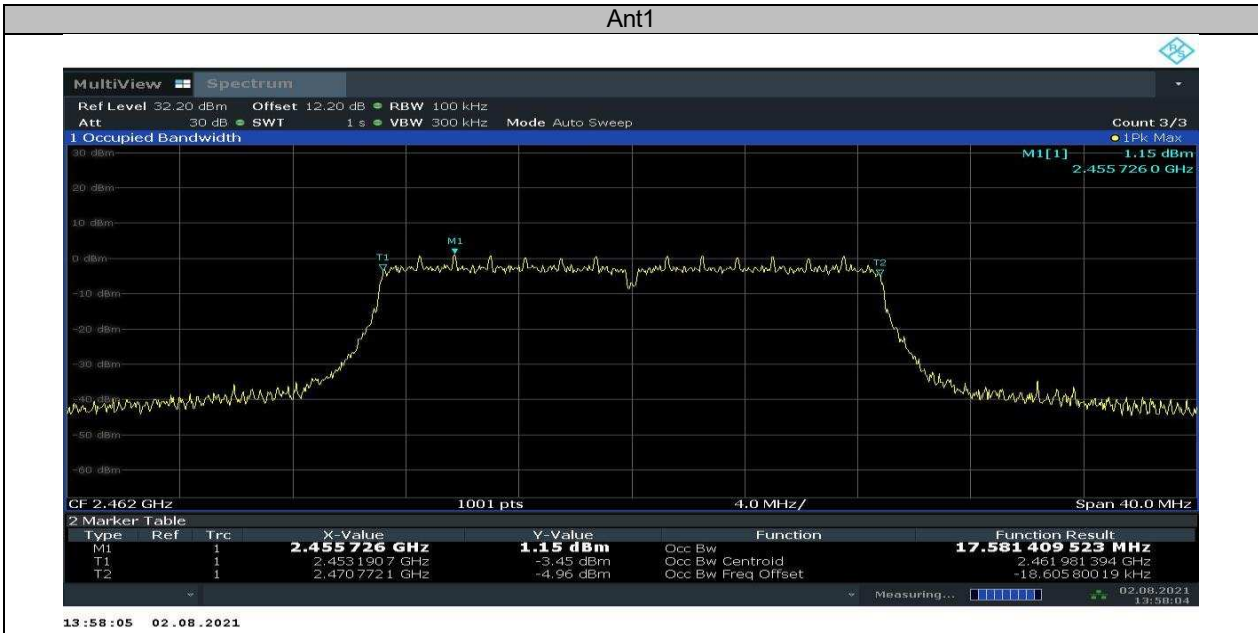
### 7.2.7 11n20SISO\_2412



7.2.8 11n20SISO\_2437



7.2.9 11n20SISO\_2462



END