

## RF Test Data for ZigBee (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	Wireless Follow Focus Controller Kit
<b>Test Model:</b>	3917
<b>Sample ID:</b>	RW-C-202209-0016-16-2#
Environmental Conditions	
<b>Temperature:</b>	25°C
<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 5V
<b>Test Engineer:</b>	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202209-0016-23	



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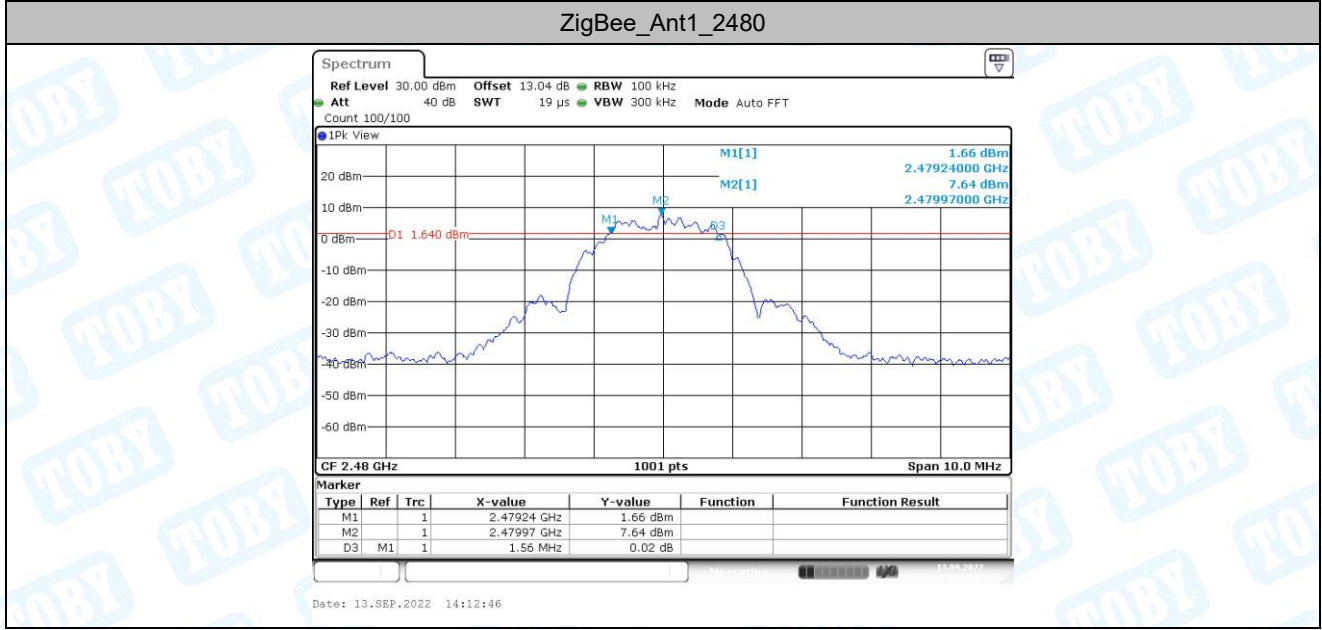
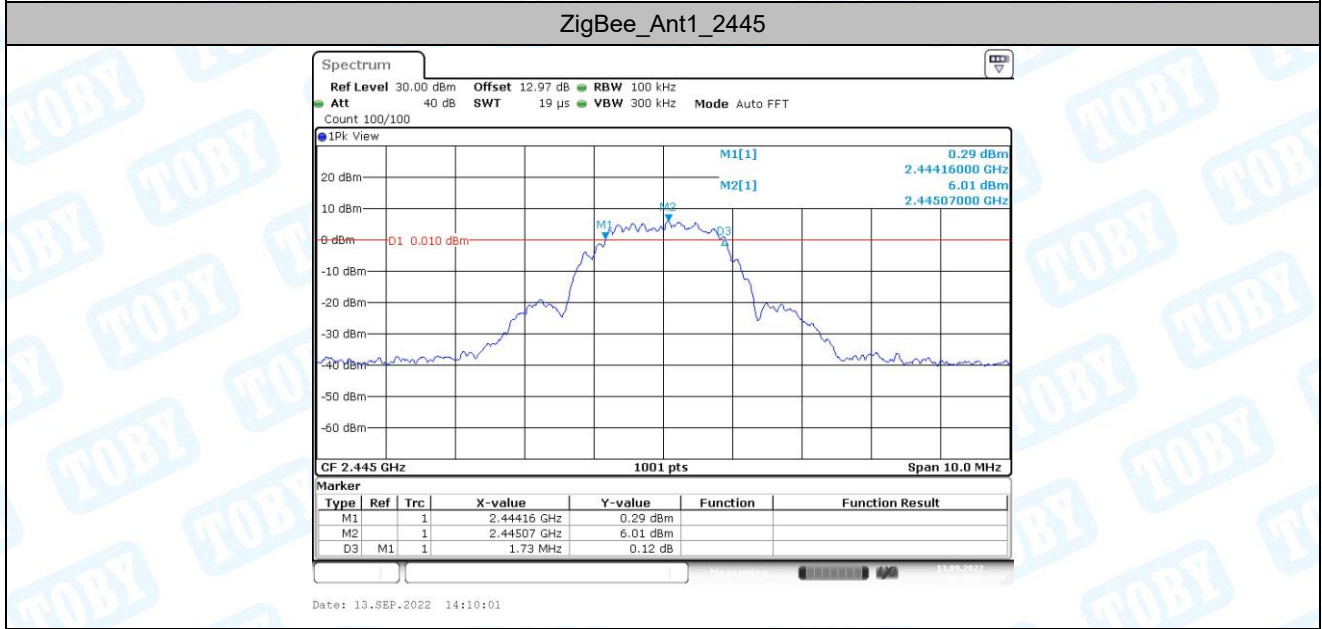
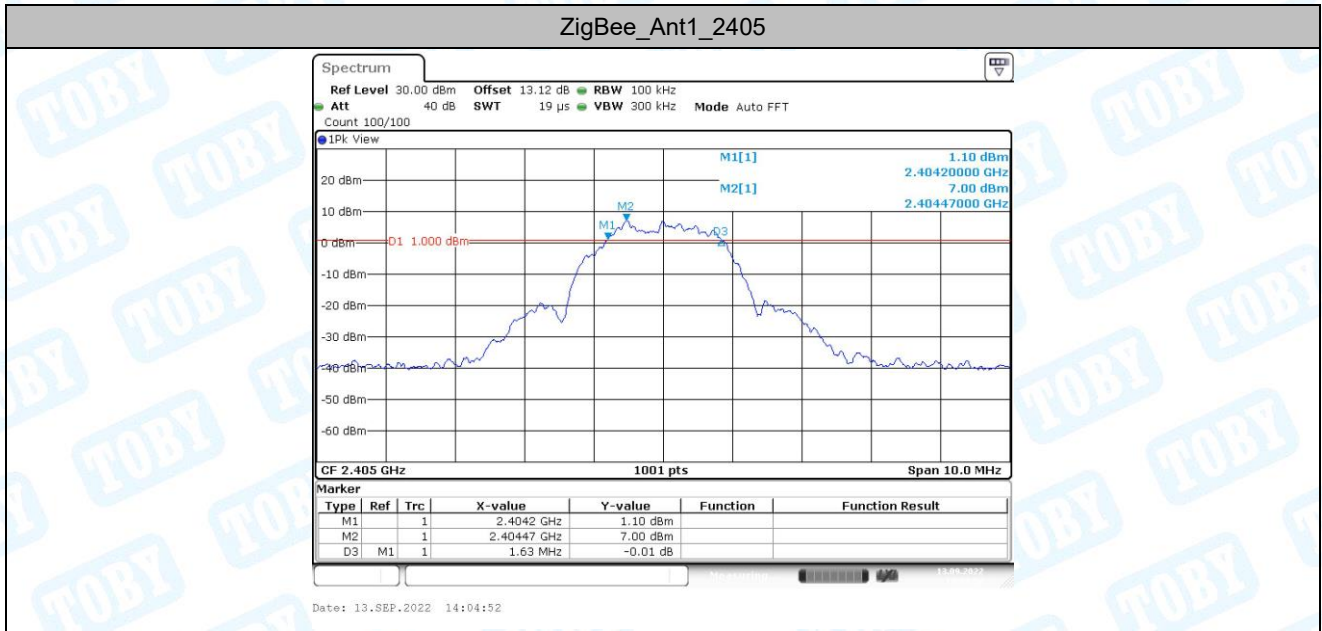


# 1: DTS Bandwidth

## 1.1 Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZigBee	Ant1	2405	1.63	2404.20	2405.83	0.5	PASS
		2445	1.73	2444.16	2445.89	0.5	PASS
		2480	1.56	2479.24	2480.80	0.5	PASS

### 1.2 Test Graphs



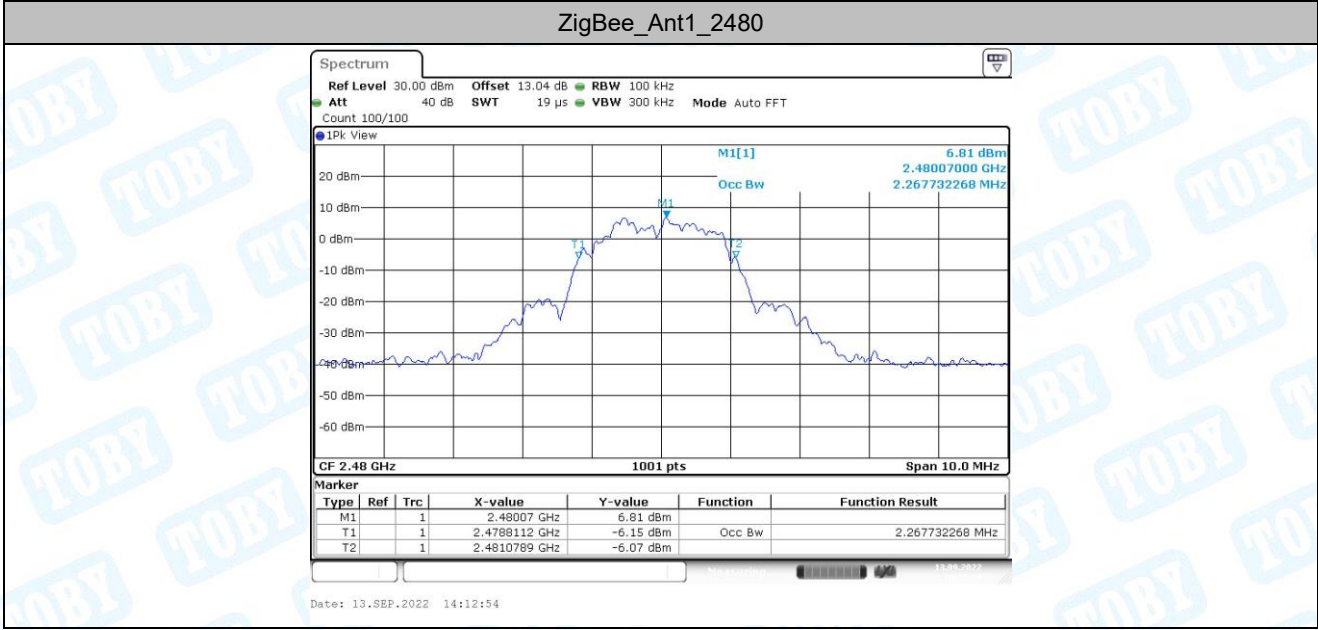
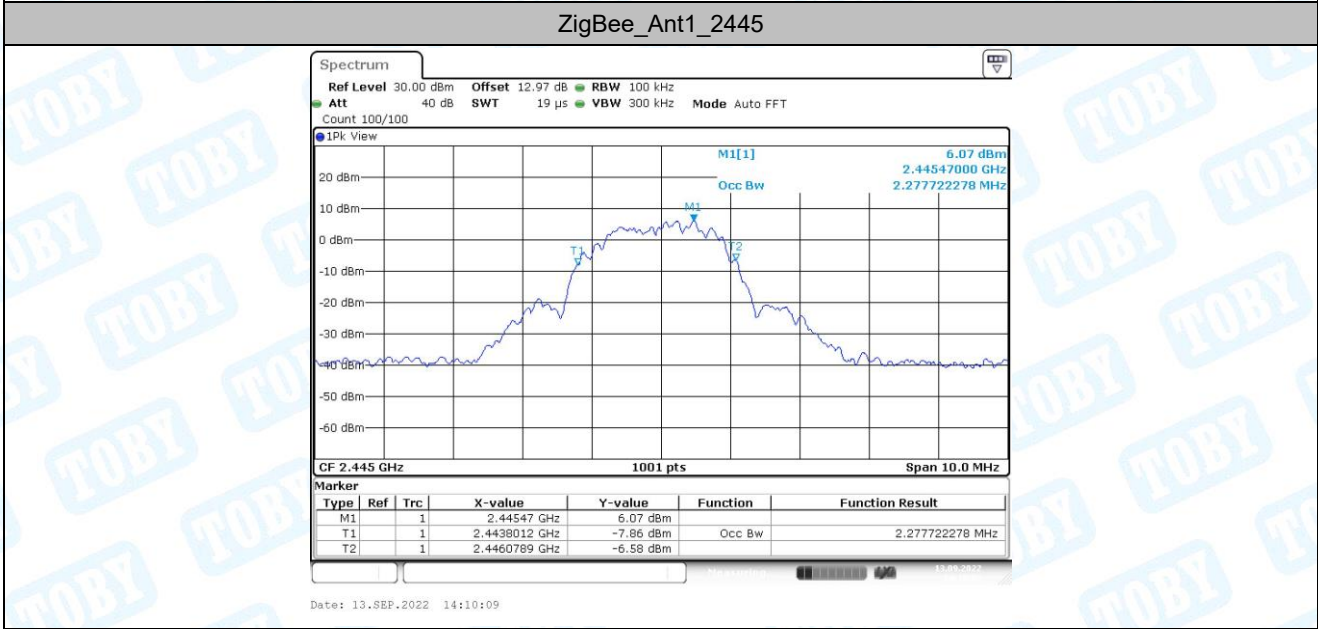
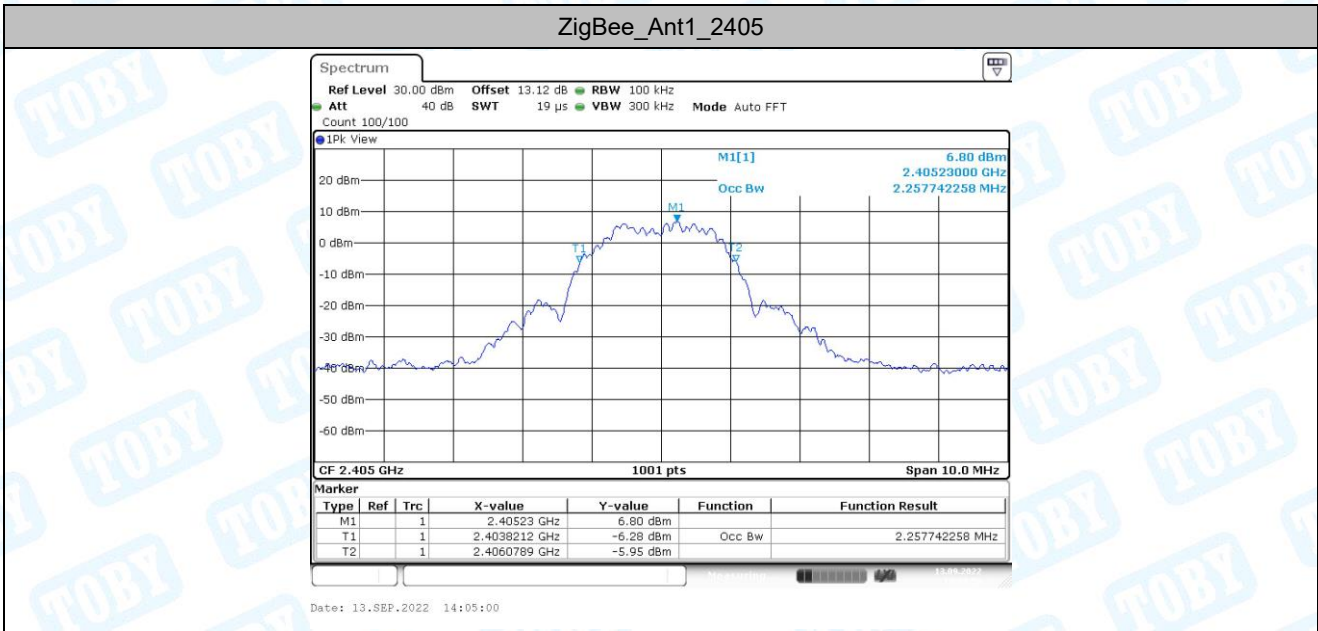


## 2: Occupied Channel Bandwidth

### 2.1 Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZigBee	Ant1	2405	2.258	2403.8212	2406.0789	---	---
		2445	2.278	2443.8012	2446.0789	---	---
		2480	2.268	2478.8112	2481.0789	---	---

## 2.2 Test Graphs





### 3: Maximum conducted output power

#### 3.1 Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	2405	0.79	≤30	PASS
		2445	0.21	≤30	PASS
		2480	0.56	≤30	PASS



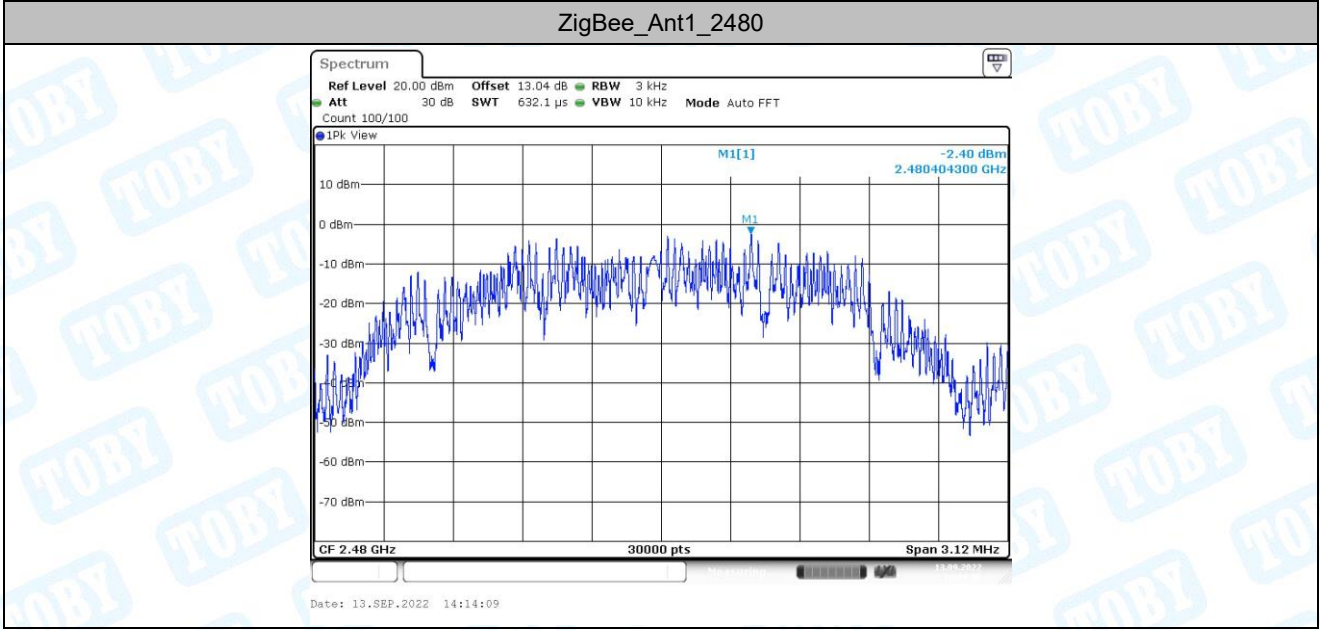
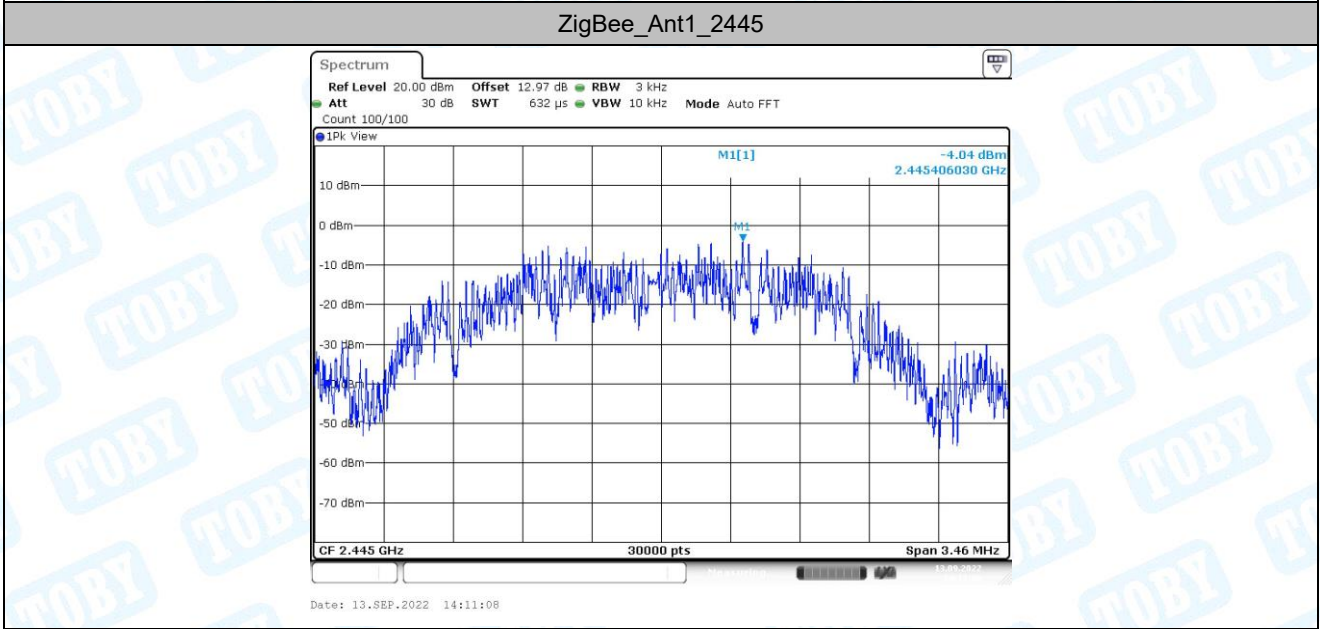
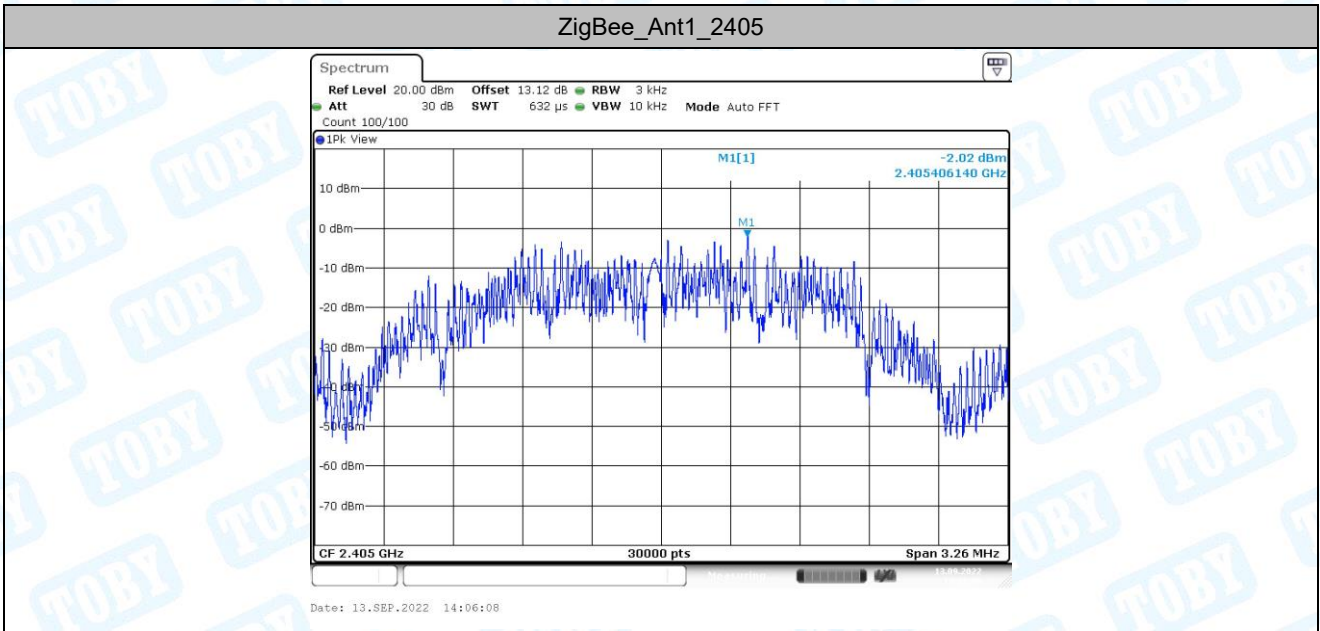
## 4: Maximum power spectral density

### 4.1 Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
ZigBee	Ant1	2405	-2.02	≤8.00	PASS
		2445	-4.04	≤8.00	PASS
		2480	-2.40	≤8.00	PASS



### 4.2 Test Graphs





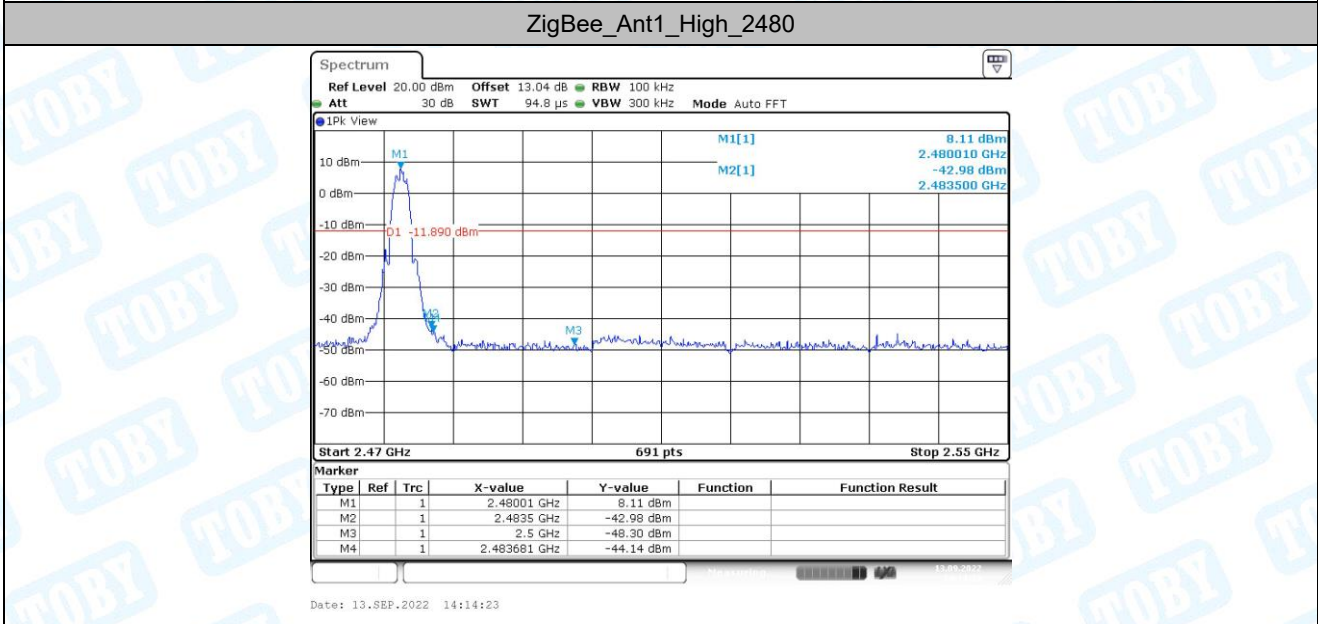
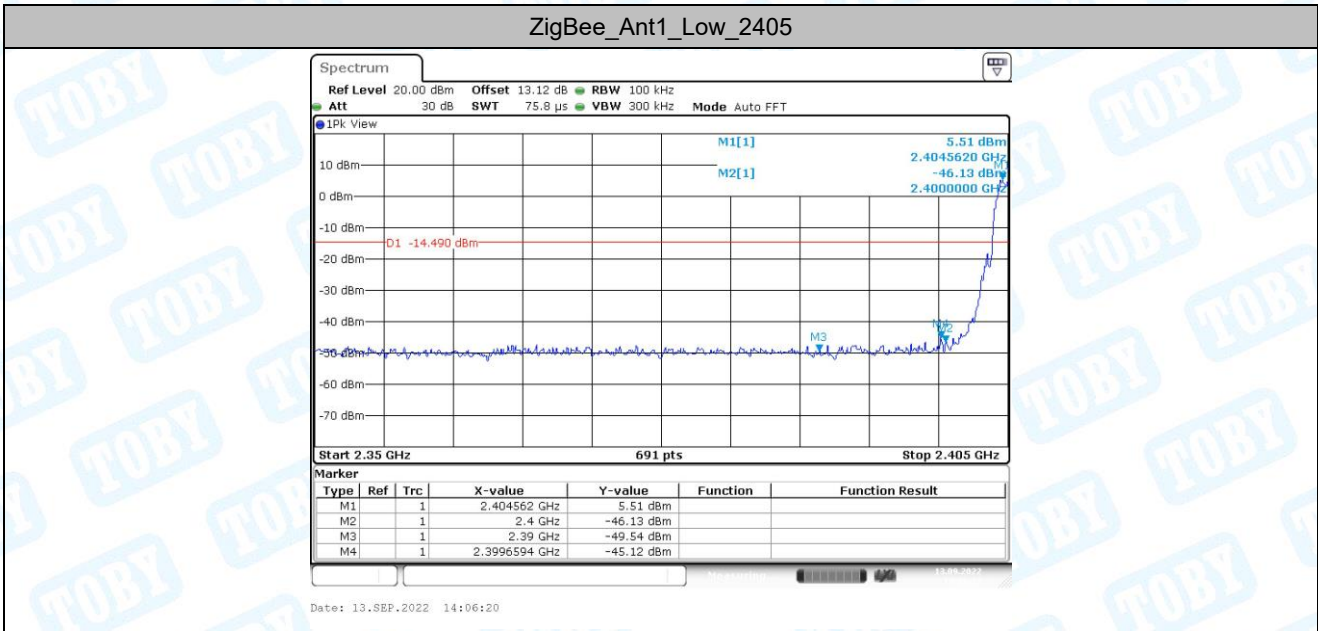
## 5: Band edge measurements

### 5.1 Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	Low	2405	5.51	-45.12	≤-14.49	PASS
		High	2480	8.11	-44.14	≤-11.89	PASS



**5.2 Test Graphs**





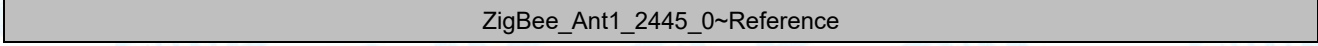
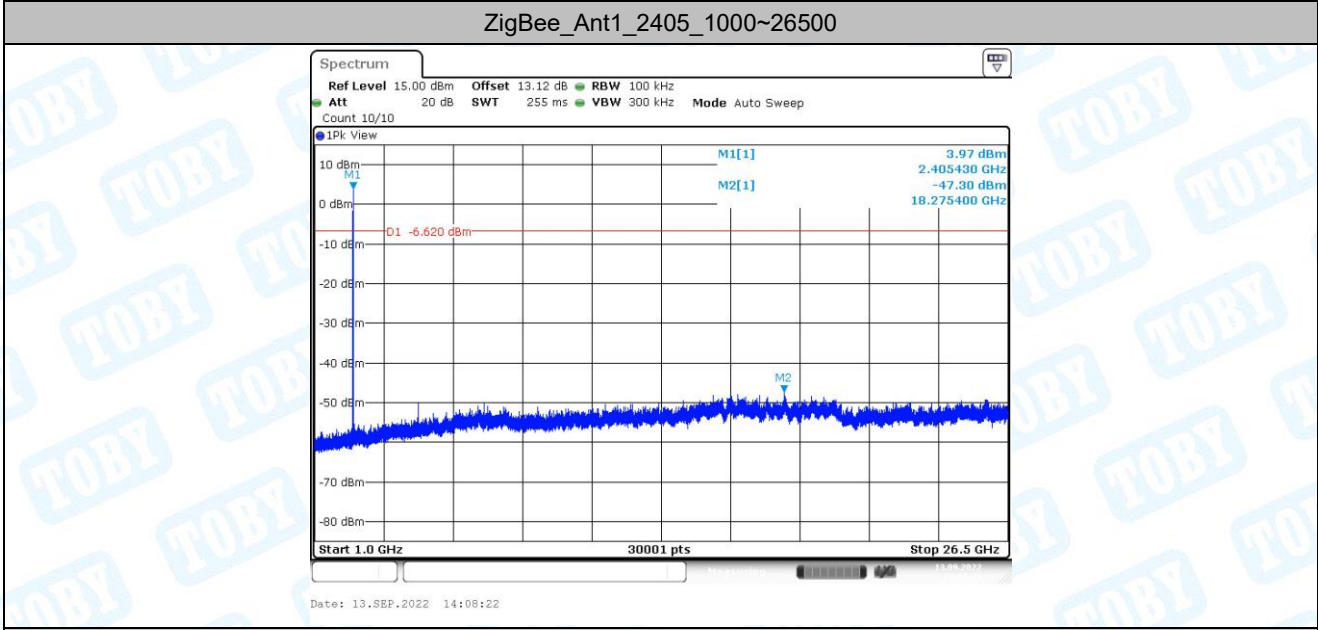
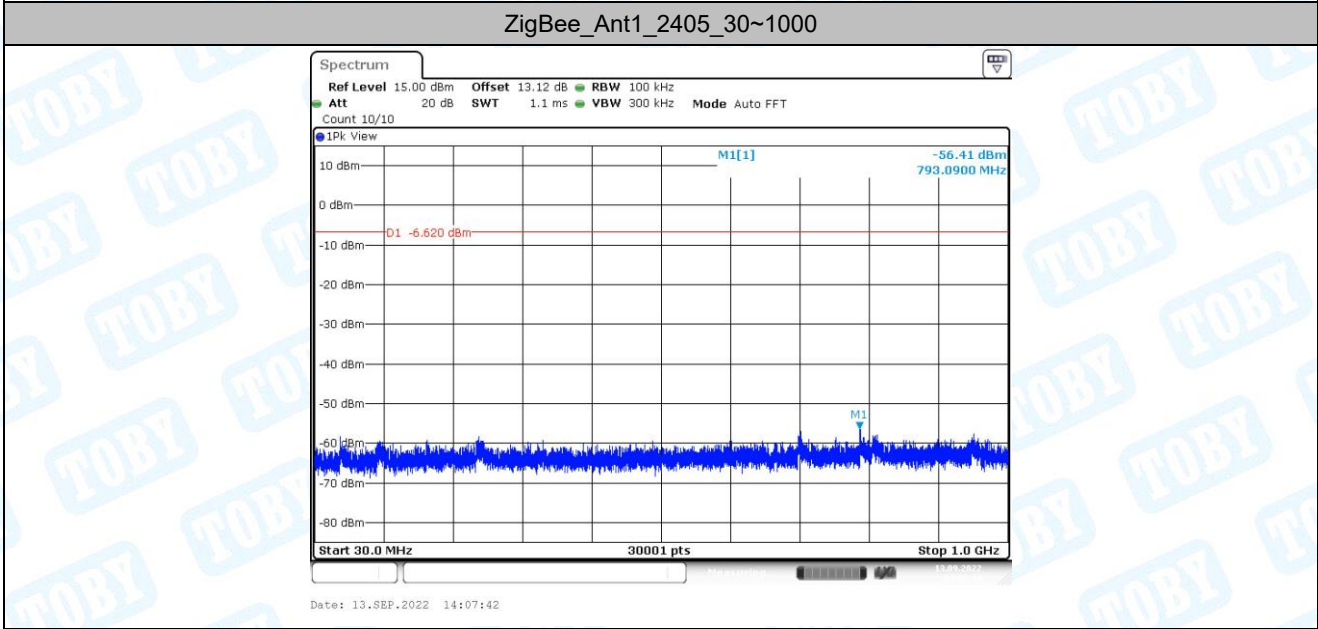
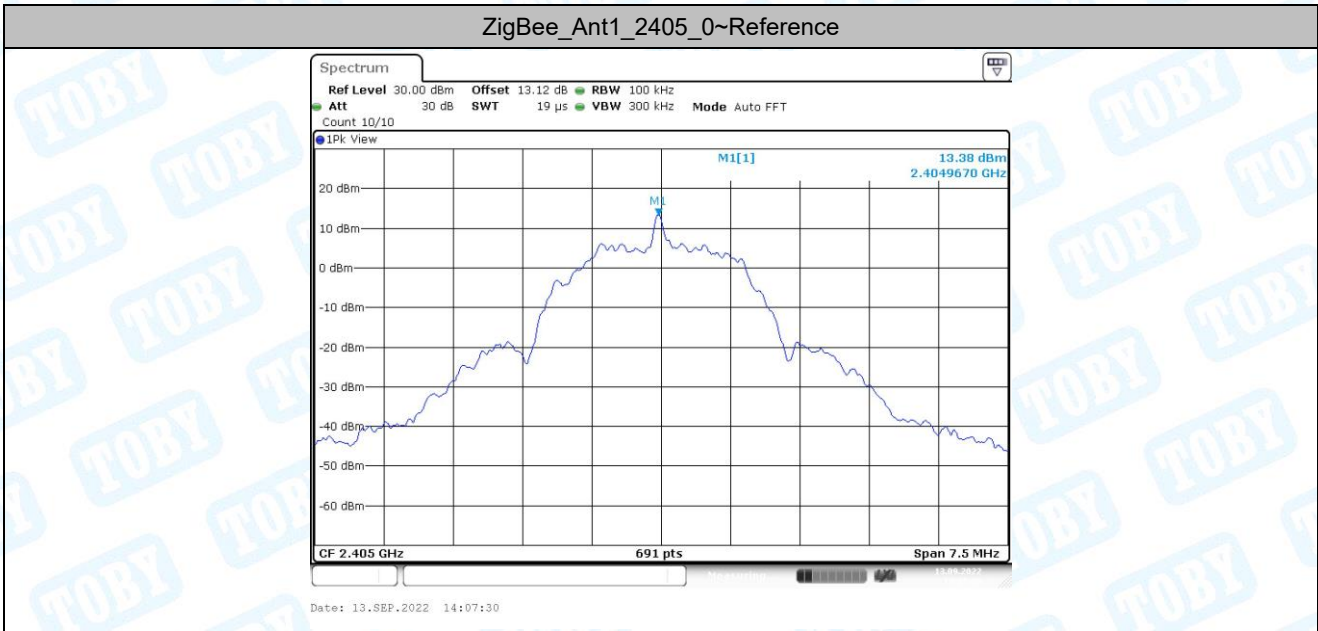
## 6: Conducted Spurious Emission

### 6.1 Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	2405	Reference	13.38	13.38	---	PASS
			30~1000	13.38	-56.41	≤-6.62	PASS
			1000~26500	13.38	-47.3	≤-6.62	PASS
		2445	Reference	11.87	11.87	---	PASS
			30~1000	11.87	-57.32	≤-8.13	PASS
			1000~26500	11.87	-46.62	≤-8.13	PASS
		2480	Reference	7.38	7.38	---	PASS
			30~1000	7.38	-54.96	≤-12.62	PASS
			1000~26500	7.38	-47.96	≤-12.62	PASS



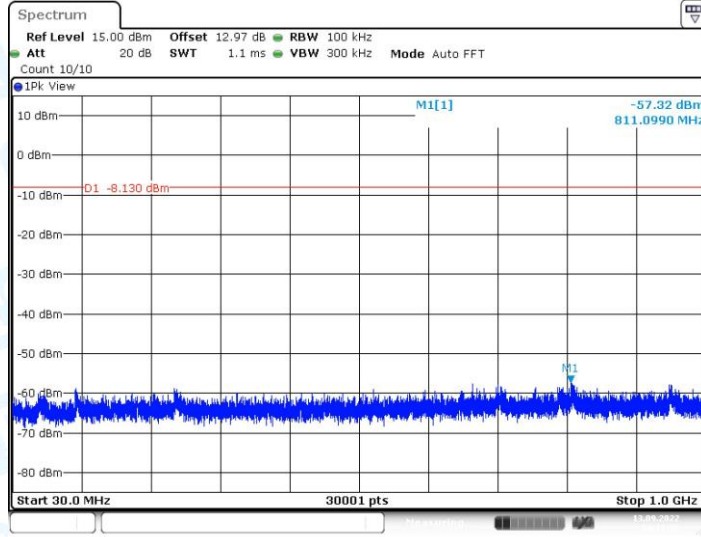
## 6.2 Test Graphs



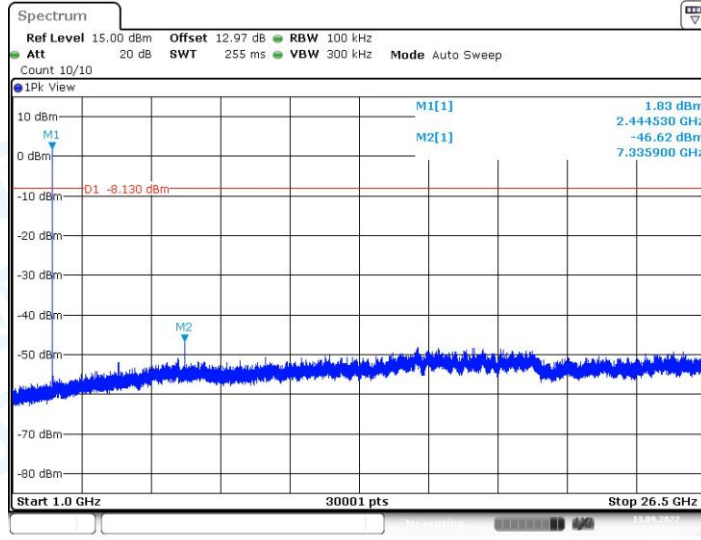




ZigBee\_Ant1\_2445\_30~1000



ZigBee\_Ant1\_2445\_1000~26500

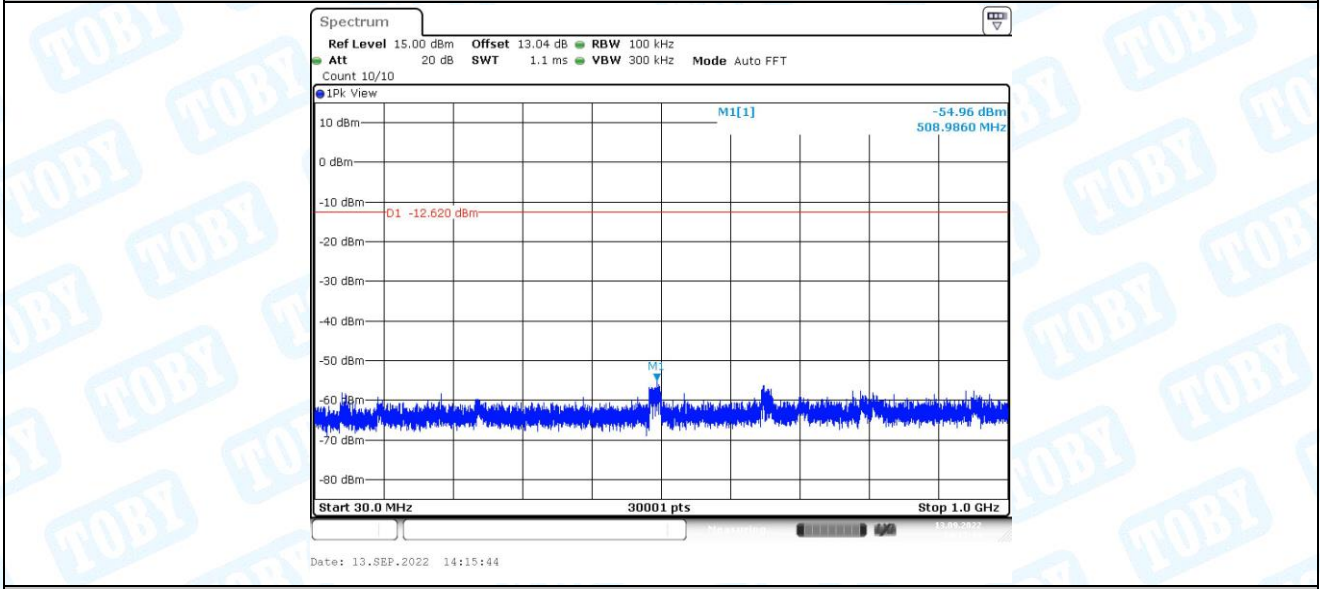


ZigBee\_Ant1\_2480\_0~Reference

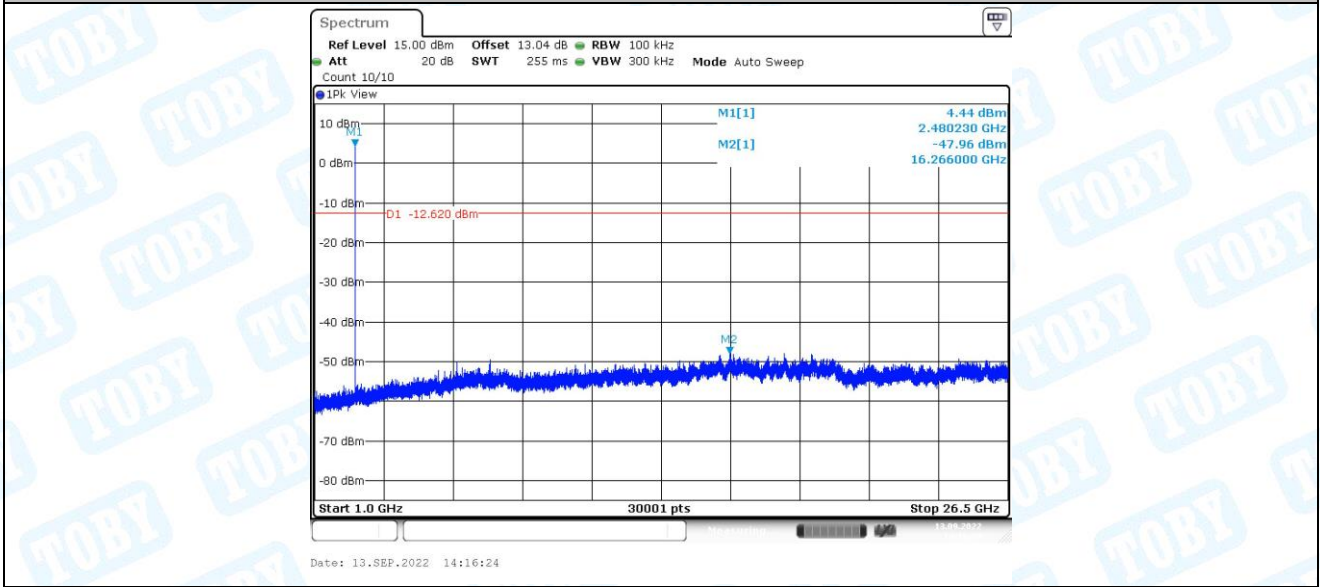




ZigBee\_Ant1\_2480\_30~1000



ZigBee\_Ant1\_2480\_1000~26500



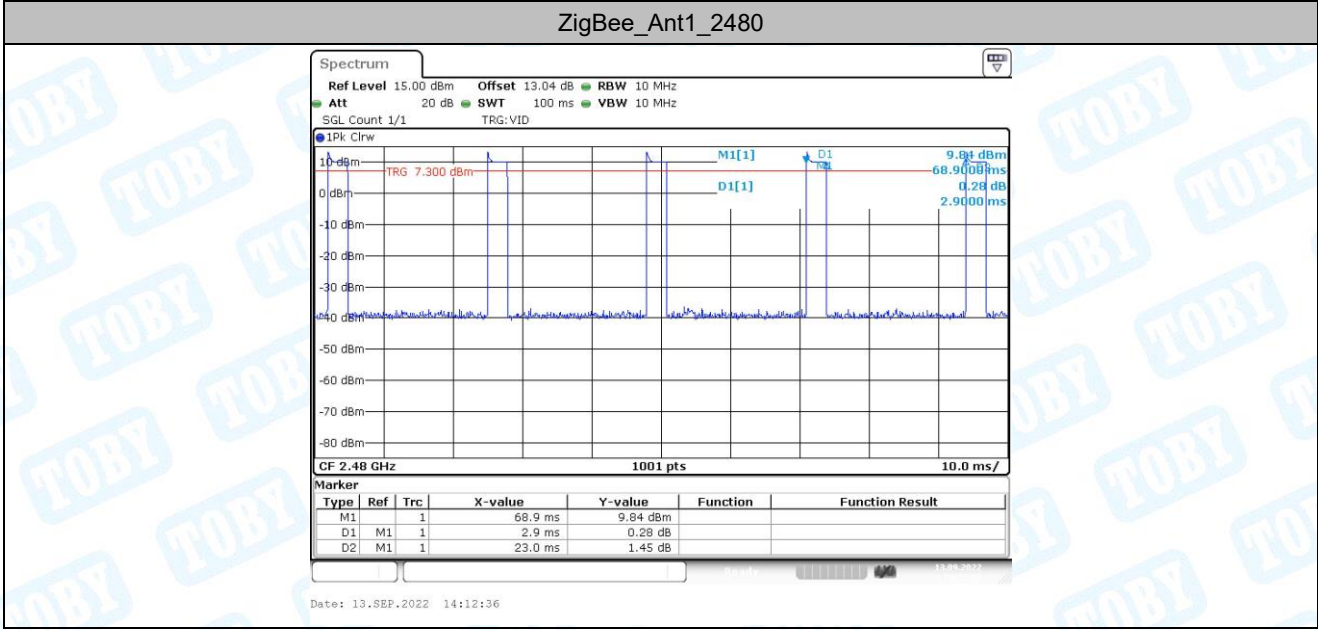
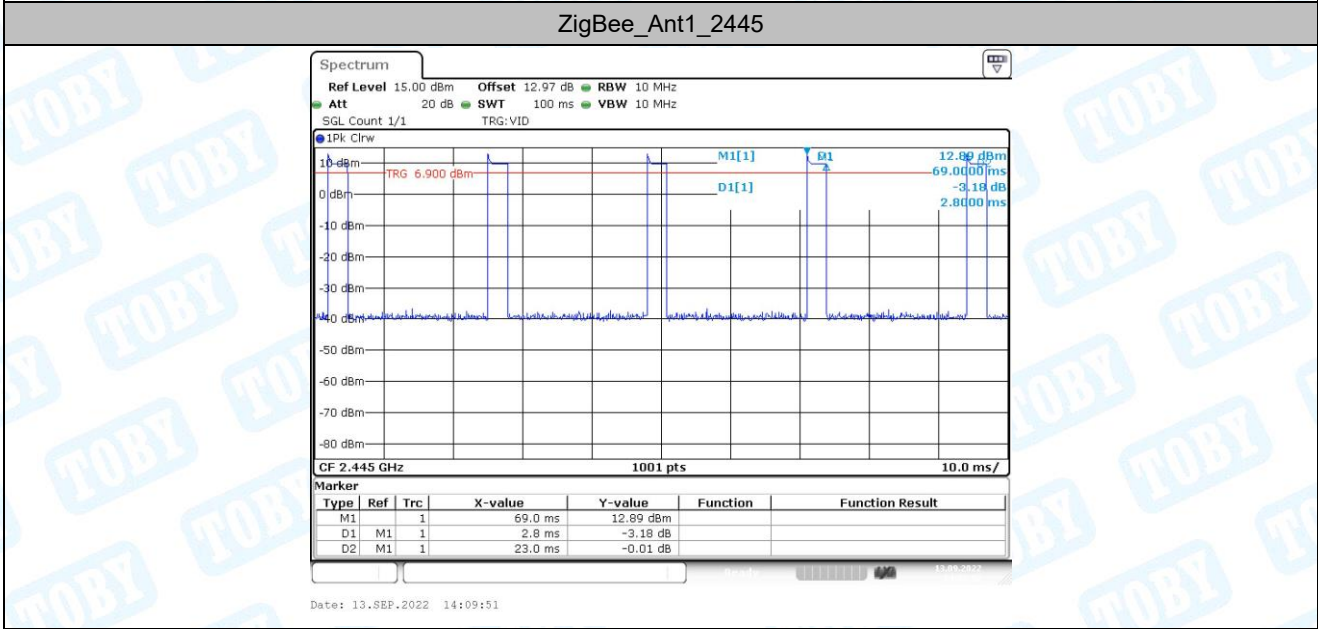
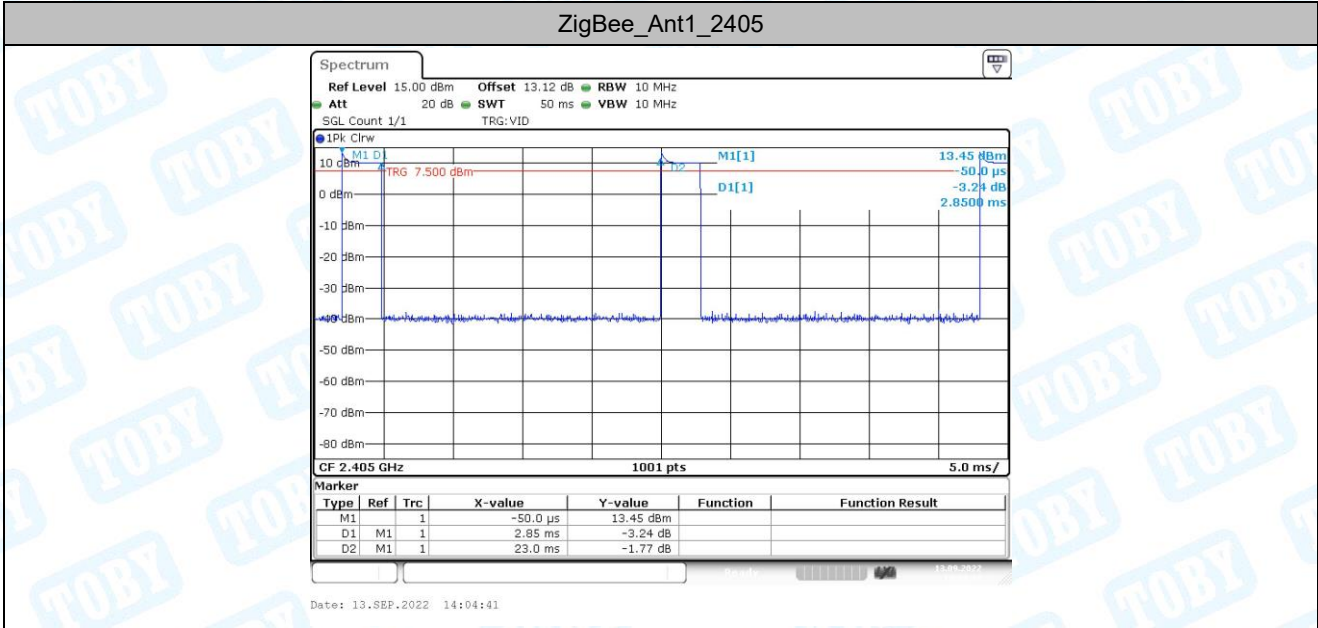
## 7: Duty Cycle

### 7.1 Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]	Limit	Verdict
ZigBee	Ant1	2405	2.85	23.00	12.39	0.351	---	---
		2445	2.80	23.00	12.17	0.357	---	---
		2480	2.90	23.00	12.61	0.345	---	---



### 7.2 Test Graphs





## 8: Emissions in Restricted Bands

### 8.1 Test Result

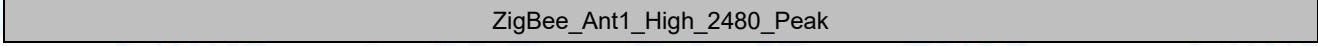
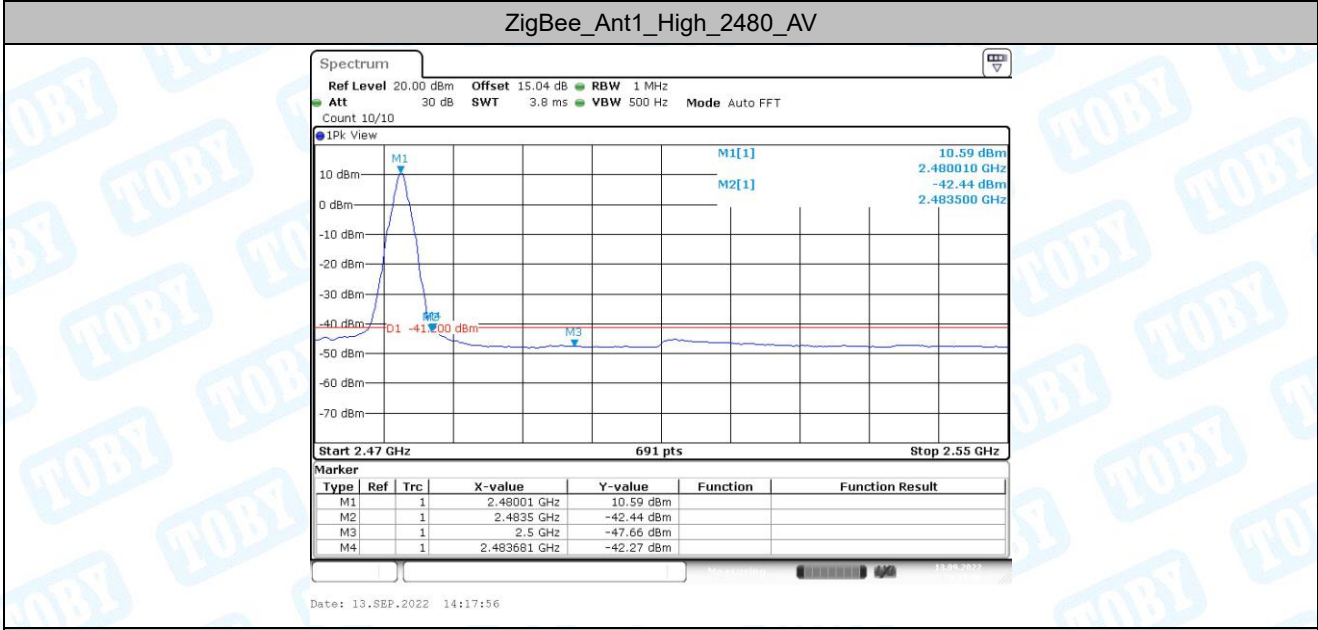
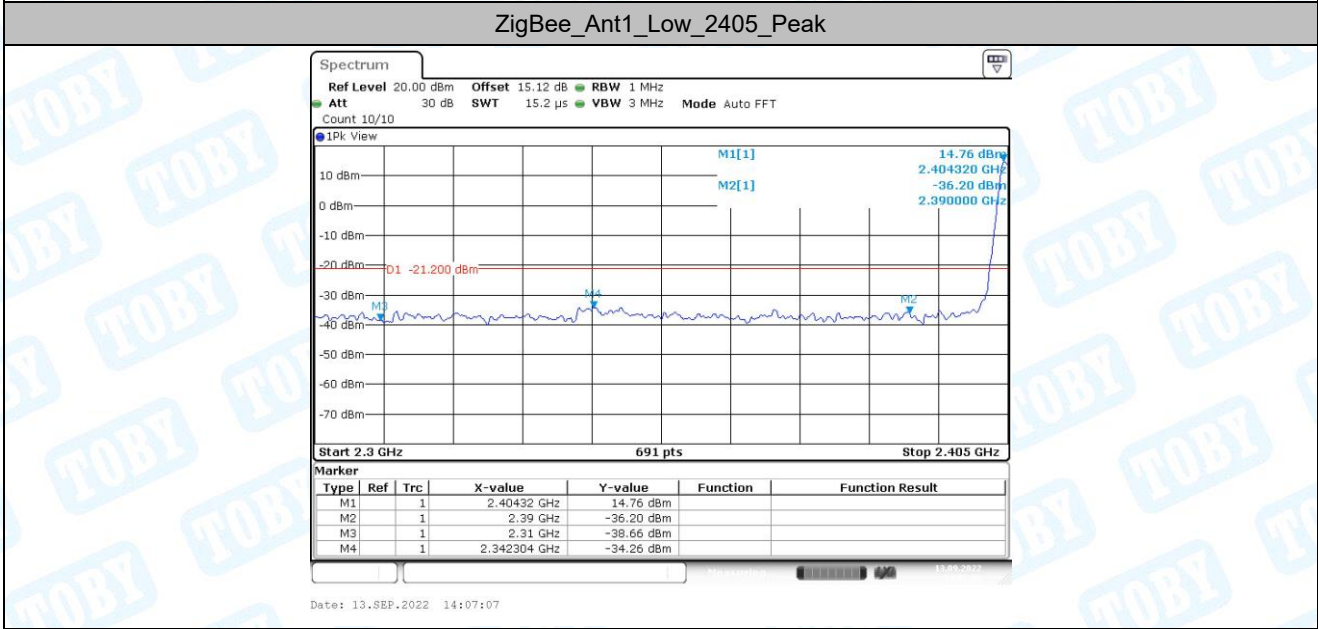
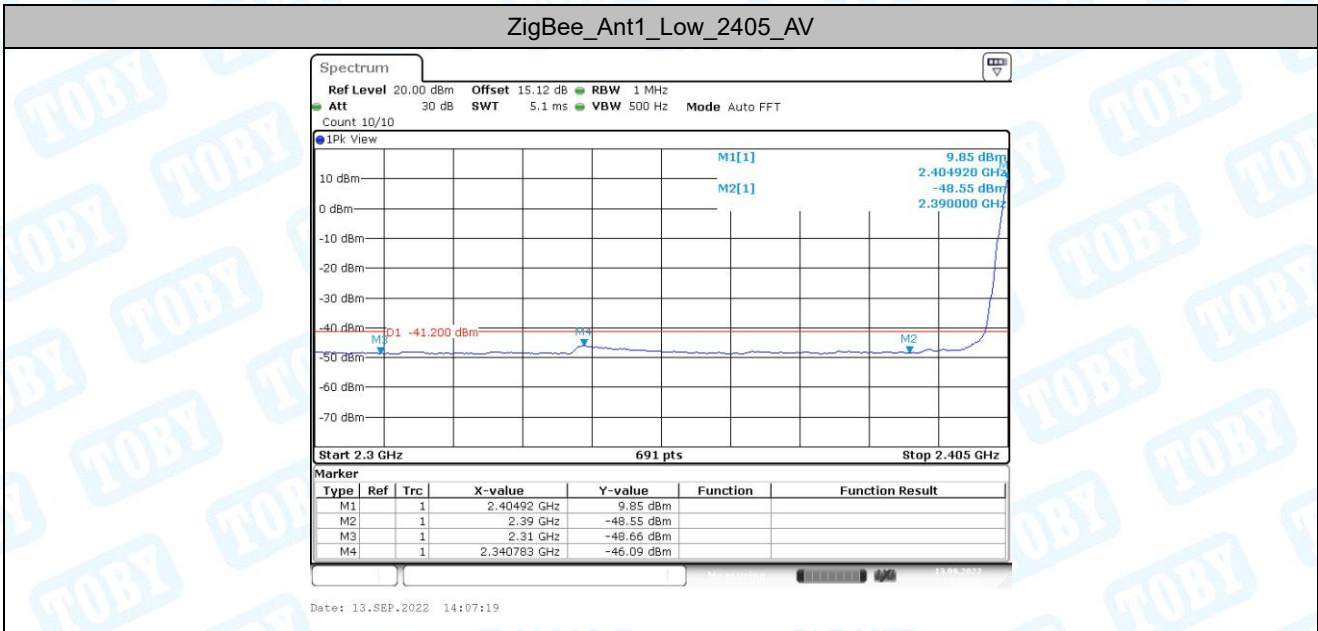
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
ZigBee	Ant1	Low	2405	AV	2310.000	-48.66	≤-41.20	PASS
				AV	2340.783	-46.09	≤-41.20	PASS
				AV	2390.000	-48.55	≤-41.20	PASS
				Peak	2310.000	-38.66	≤-21.20	PASS
				Peak	2342.304	-34.26	≤-21.20	PASS
				Peak	2390.000	-36.2	≤-21.20	PASS
		High	2480	AV	2483.500	-42.44	≤-41.20	PASS
				AV	2483.681	-42.27	≤-41.20	PASS
				AV	2500.000	-47.66	≤-41.20	PASS
				Peak	2483.500	-31.75	≤-21.20	PASS
				Peak	2483.681	-31.18	≤-21.20	PASS
				Peak	2500.000	-36.75	≤-21.20	PASS

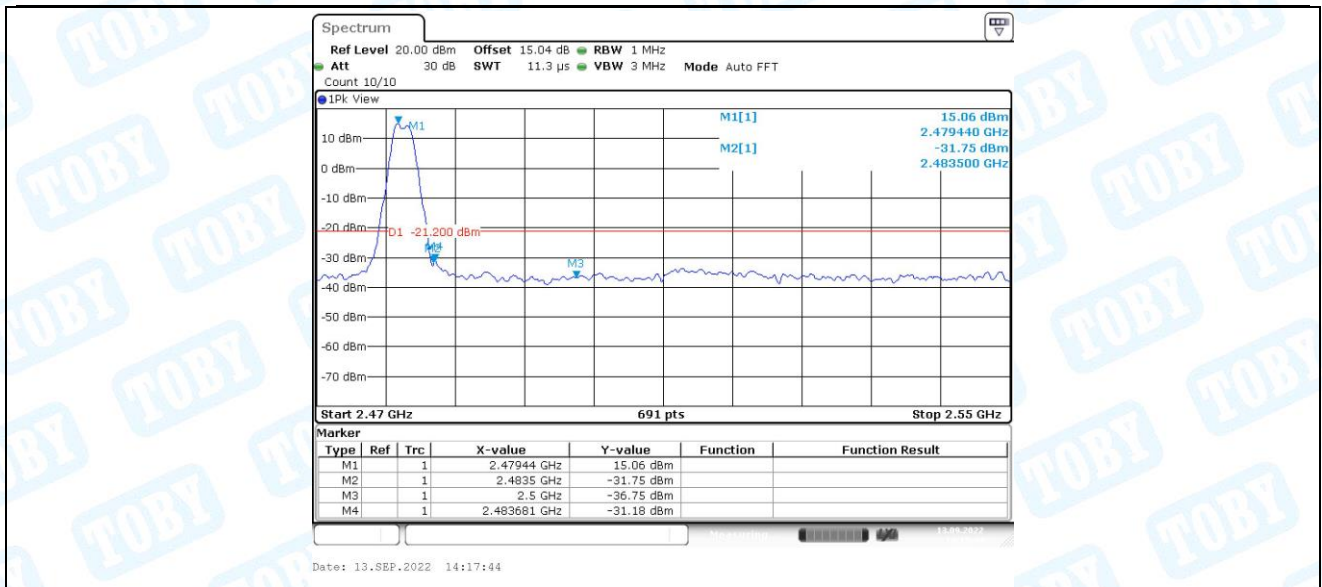
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



### 8.2 Test Graphs





-----END OF THE REPORT-----