

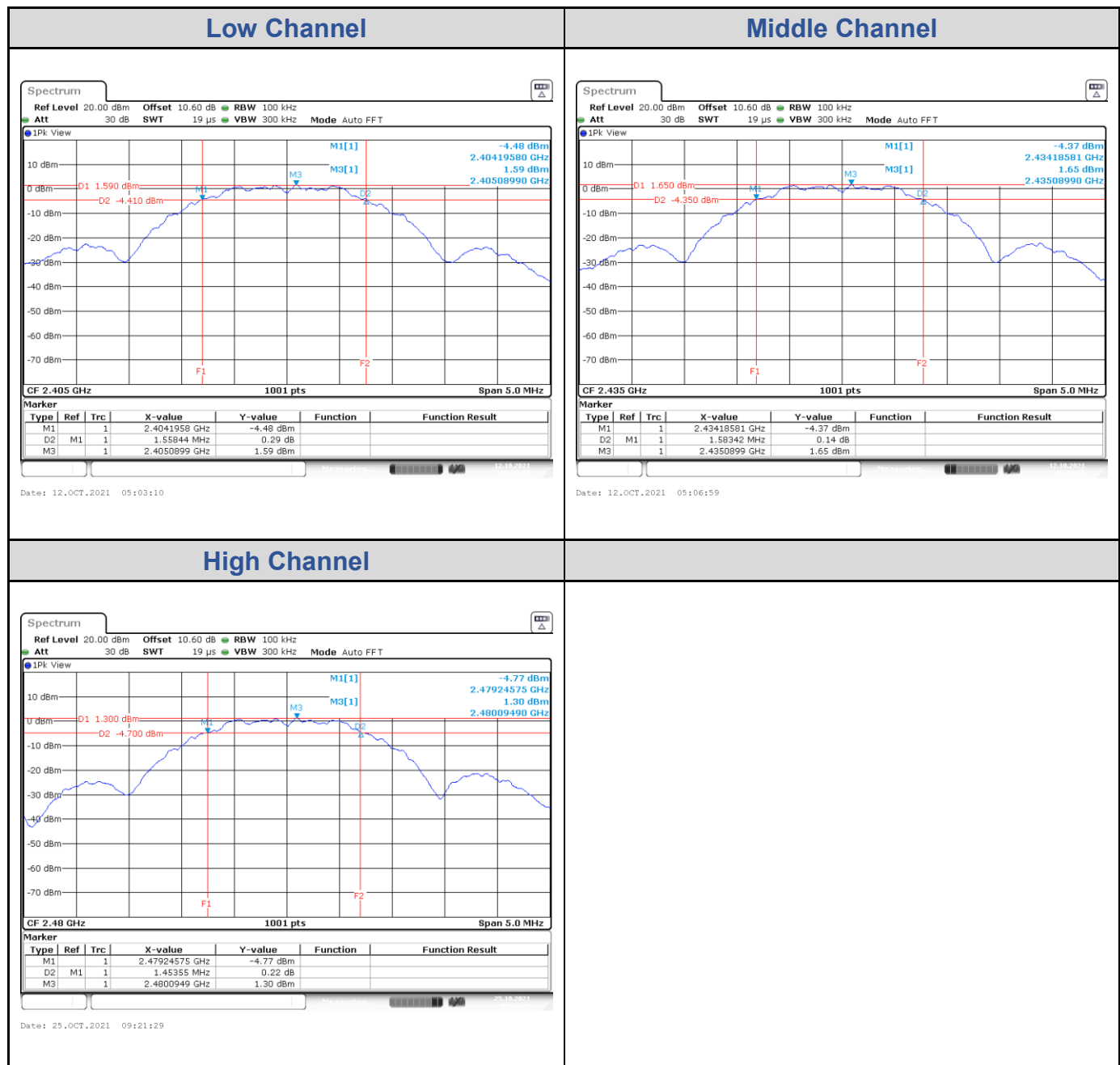
Appendix A: Test Results of Conducted Test for LPA Mode by PCB

Antenna

Test Result of 6 dB Bandwidth

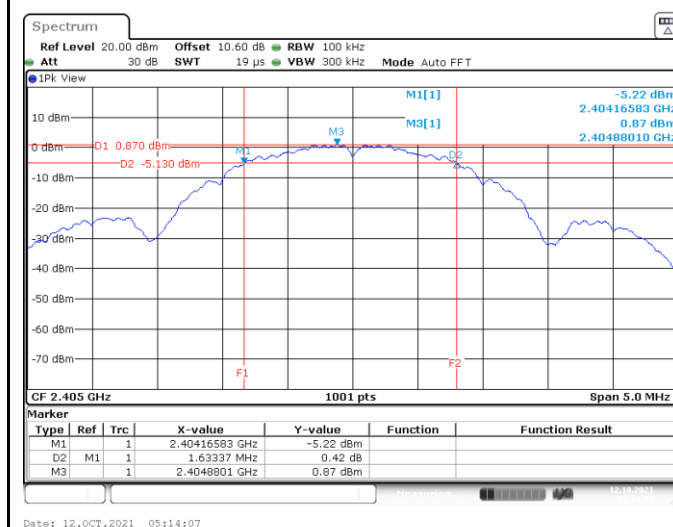
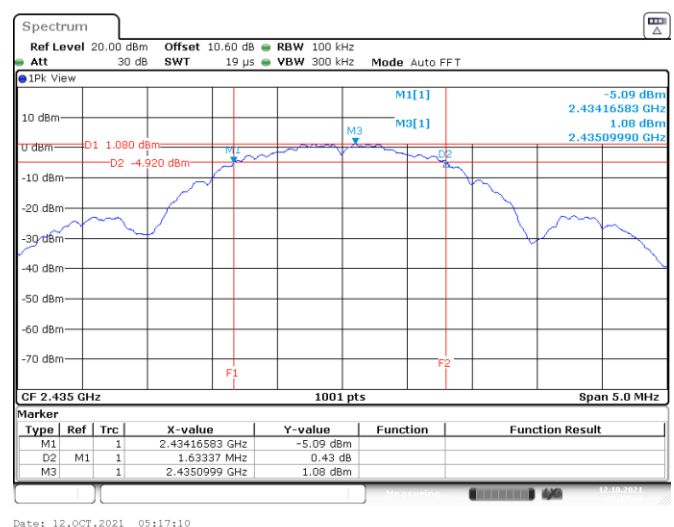
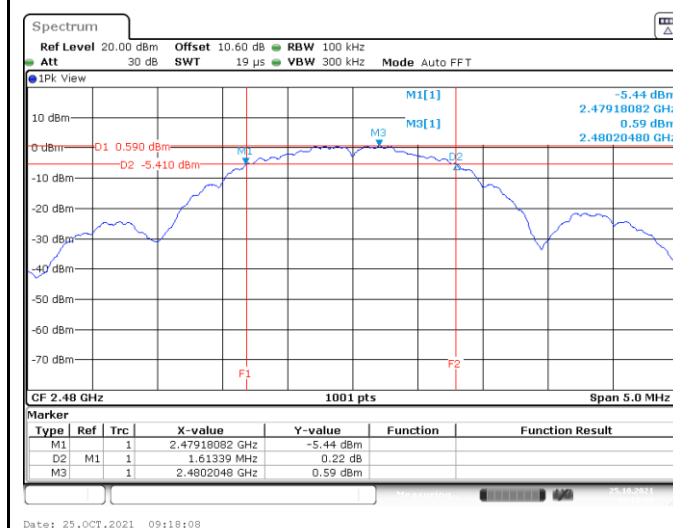
Zigbee_250kHz

Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2405	1558.44	> 500	Pass
Middle Channel	2435	1583.42	> 500	Pass
High Channel	2480	1453.55	> 500	Pass



Zigbee_1Mbps

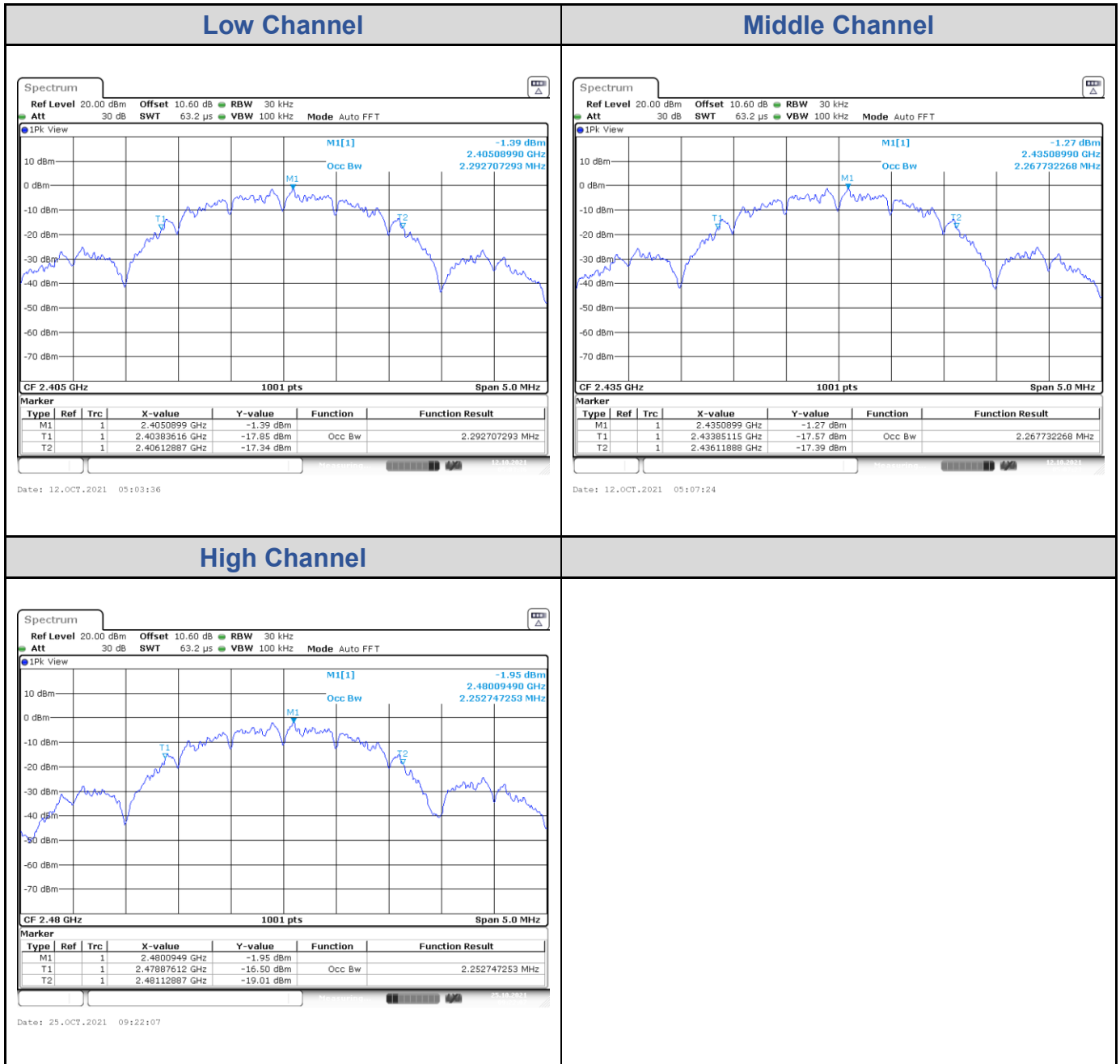
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2405	1633.37	> 500	Pass
Middle Channel	2435	1633.37	> 500	Pass
High Channel	2480	1613.39	> 500	Pass

Low Channel

Middle Channel

High Channel


Test Result of 99% Occupied Bandwidth

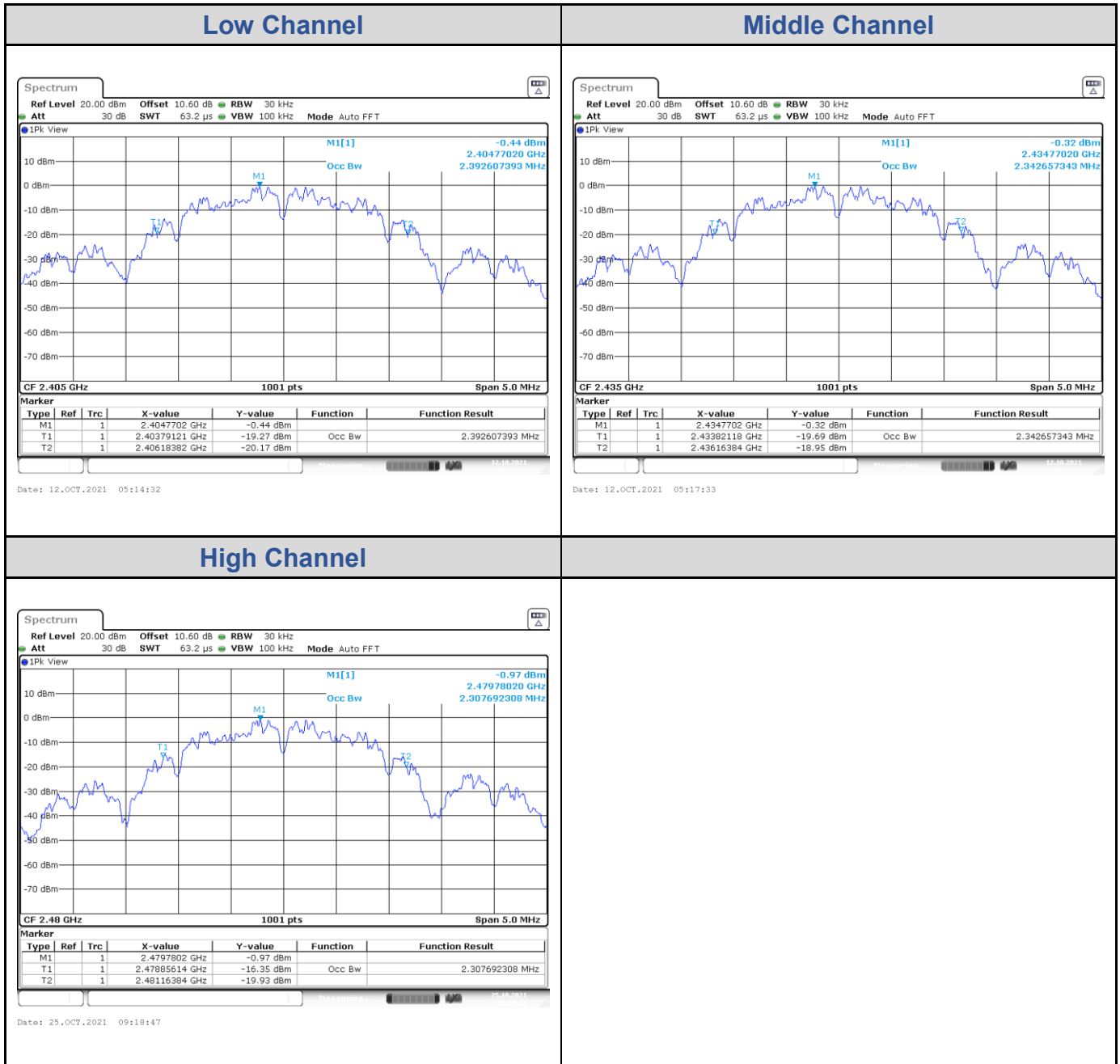
Zigbee_250kHz

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2405	2.29
Middle Channel	2435	2.27
High Channel	2480	2.25



Zigbee_1Mbps

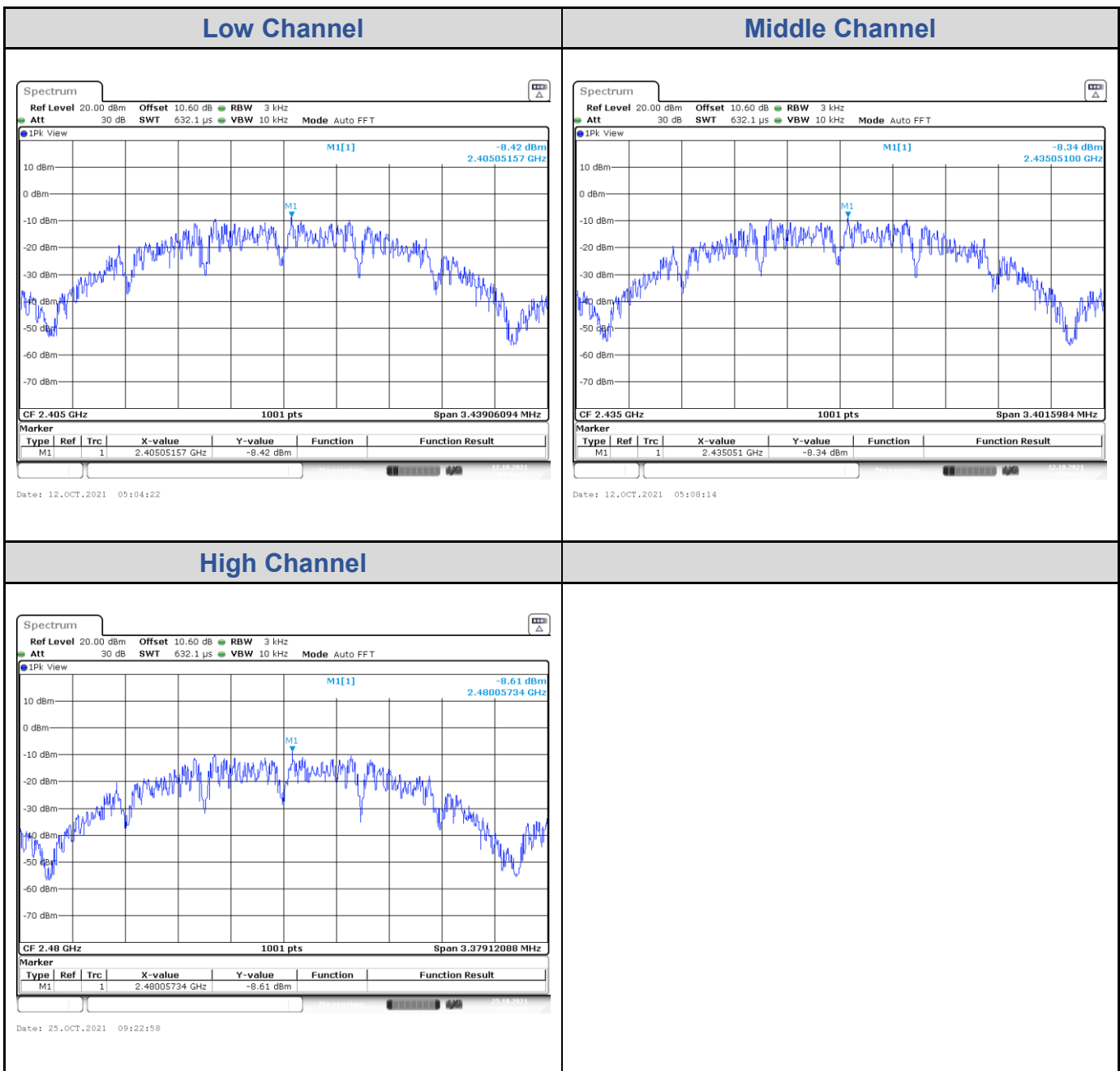
Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2405	2.39
Middle Channel	2435	2.34
High Channel	2480	2.31



Test Result of Power Spectral Density

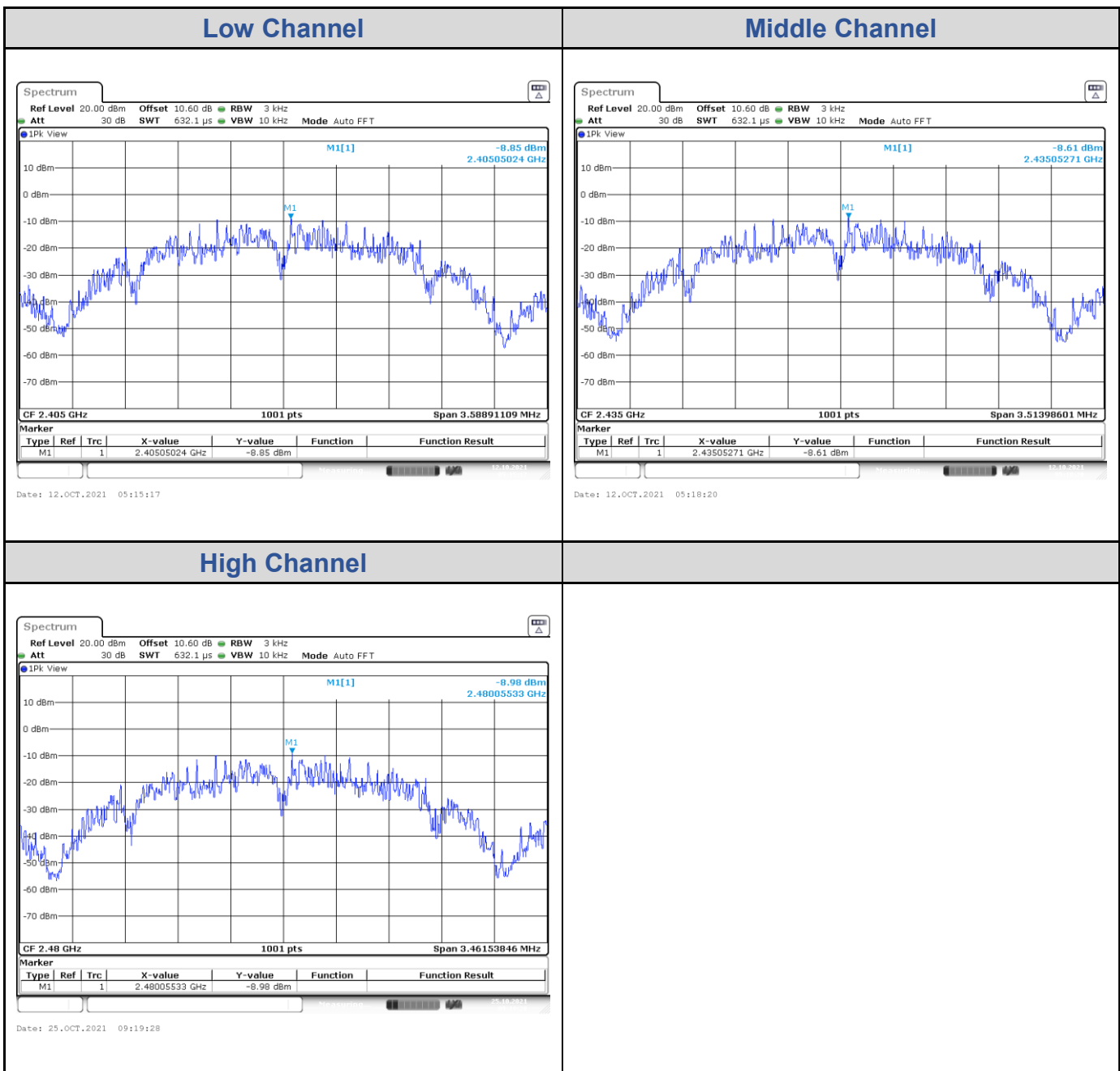
Zigbee_250kHz

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2405	-8.42	8	Pass
Middle Channel	2435	-8.34	8	Pass
High Channel	2480	-8.61	8	Pass



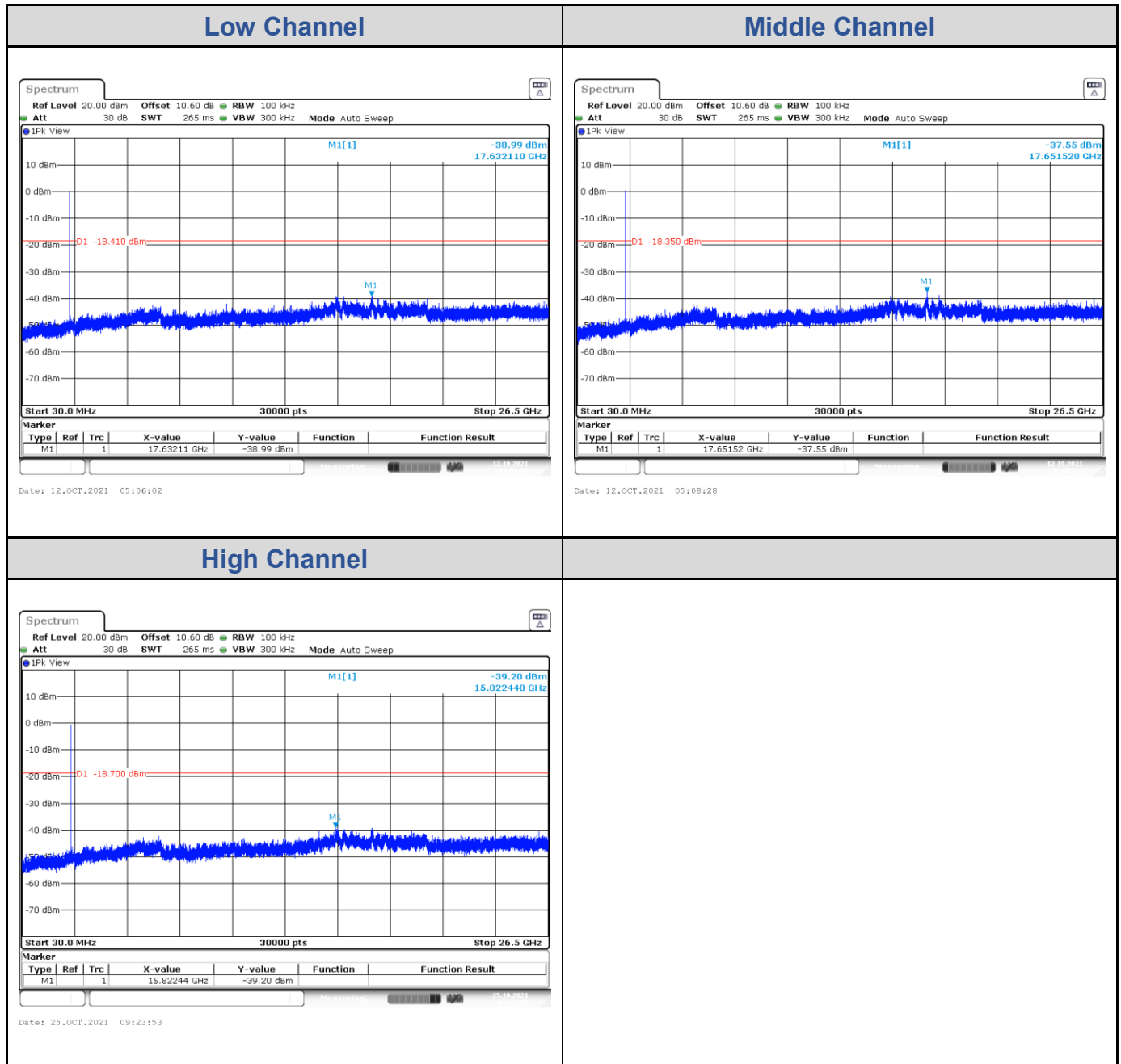
Zigbee_1Mbps

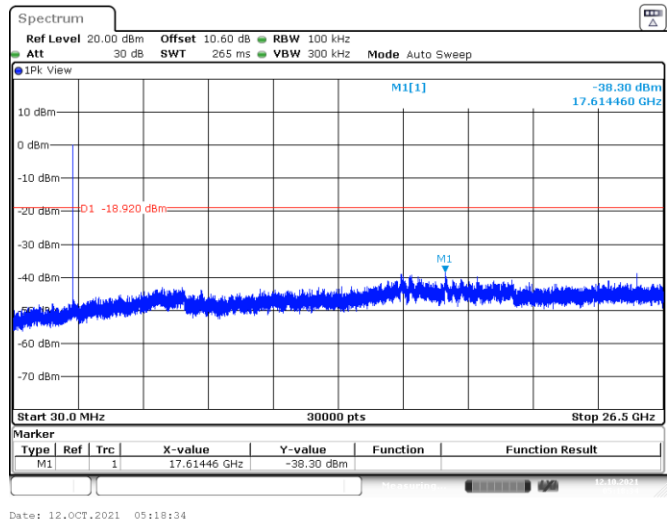
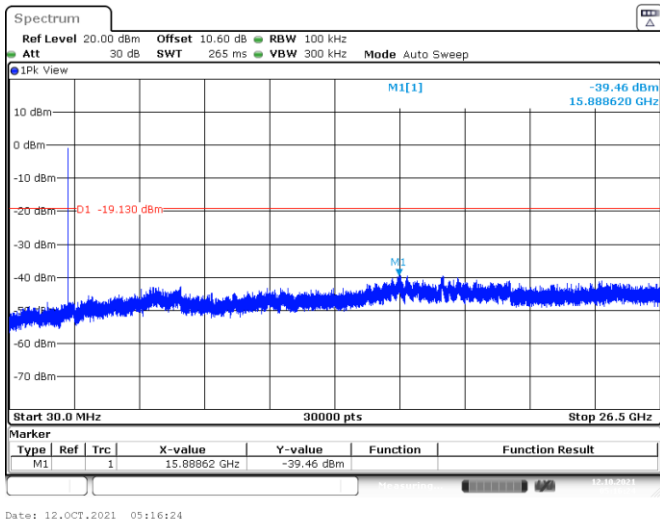
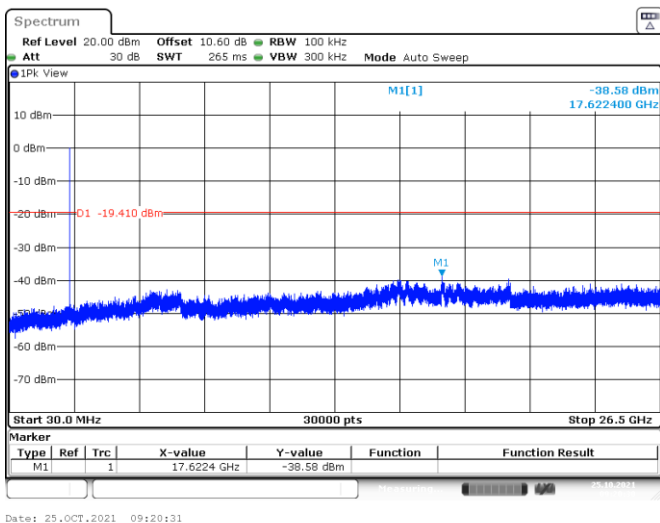
Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2405	-8.85	8	Pass
Middle Channel	2435	-8.61	8	Pass
High Channel	2480	-8.98	8	Pass



Test Result of Conducted Spurious Emissions, Tx Mode

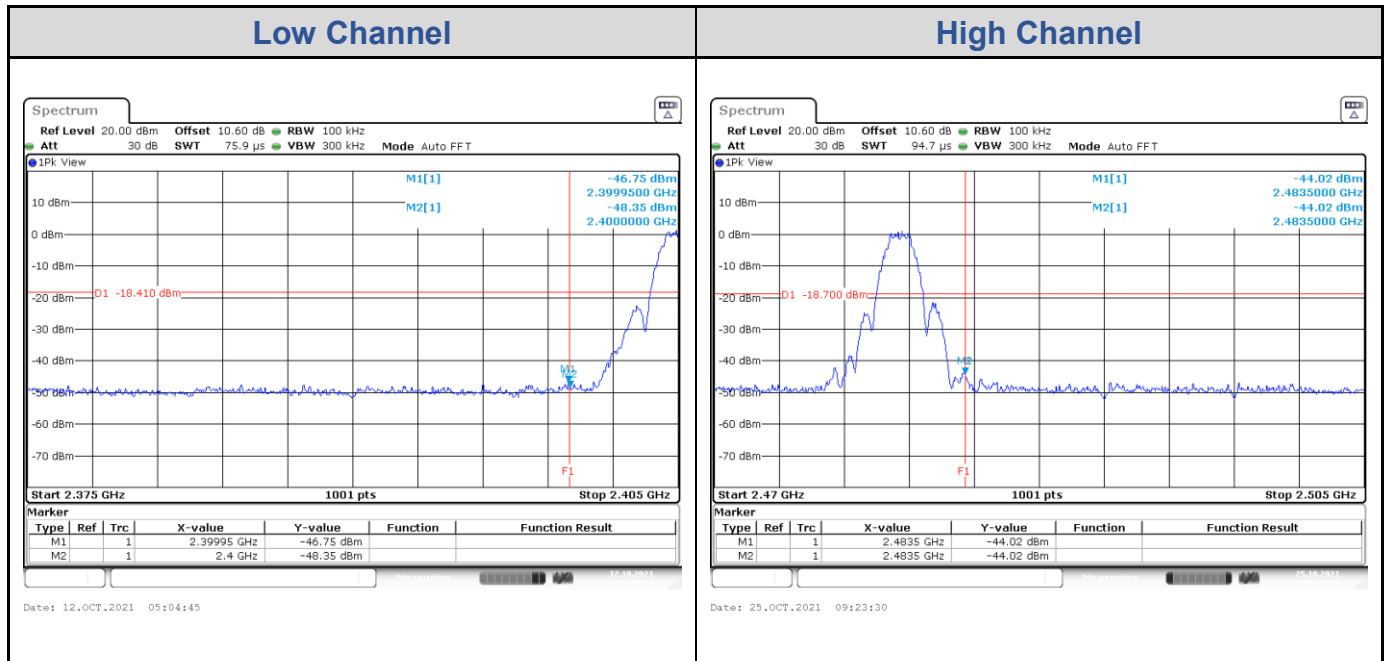
Zigbee_250kHz



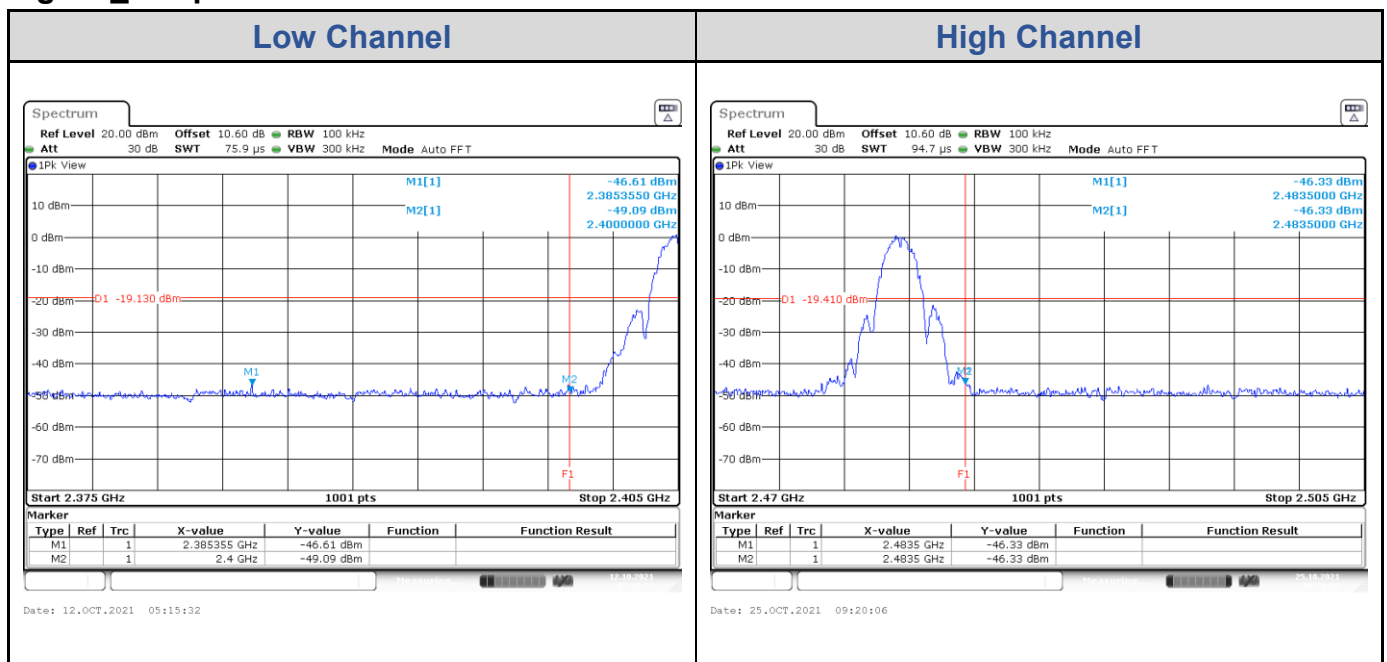
Zigbee_1Mbps
Low Channel
Middle Channel

High Channel


Test Result of Conducted Band Edge, Tx Mode

Zigbee_250kHz



Zigbee_1Mbps



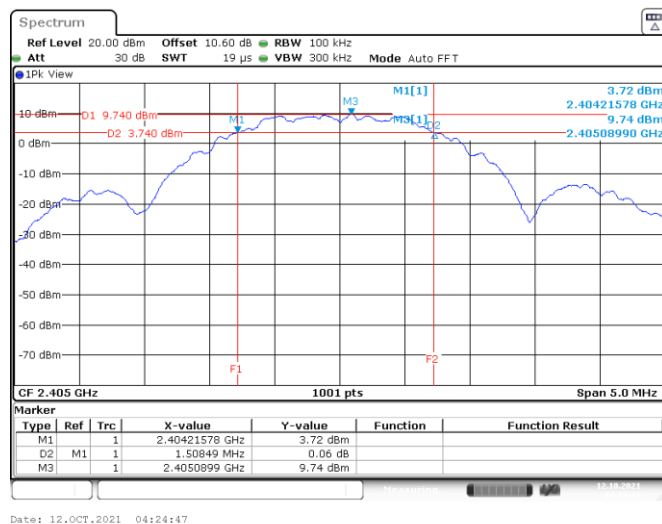
Test Results of Conducted Test for MPA Mode for PCB Antenna

Test Result of 6 dB Bandwidth

Zigbee_250kHz

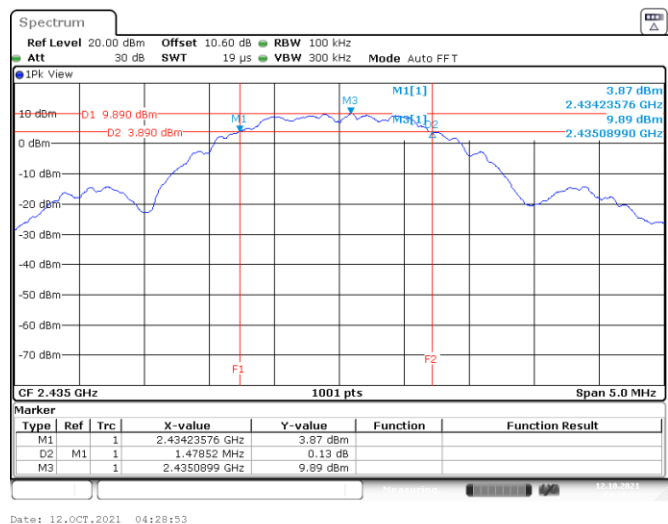
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2405	1508.49	> 500	Pass
Middle Channel	2435	1478.52	> 500	Pass
High Channel	2480	1528.47	> 500	Pass

Low Channel



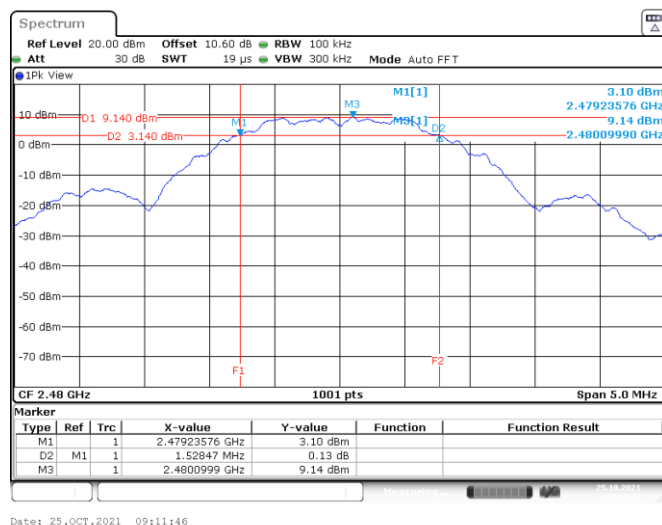
Date: 12.OCT.2021 04:24:47

Middle Channel



Date: 12.OCT.2021 04:28:53

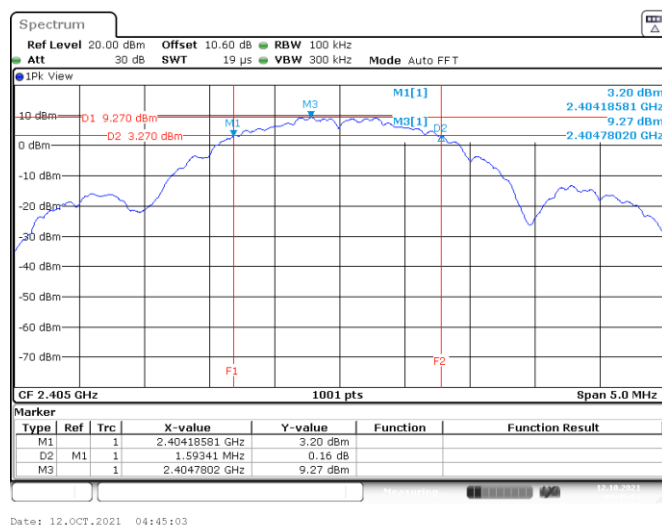
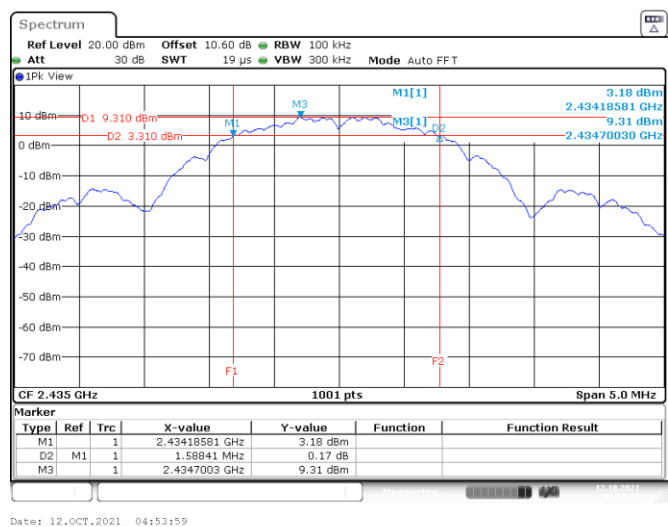
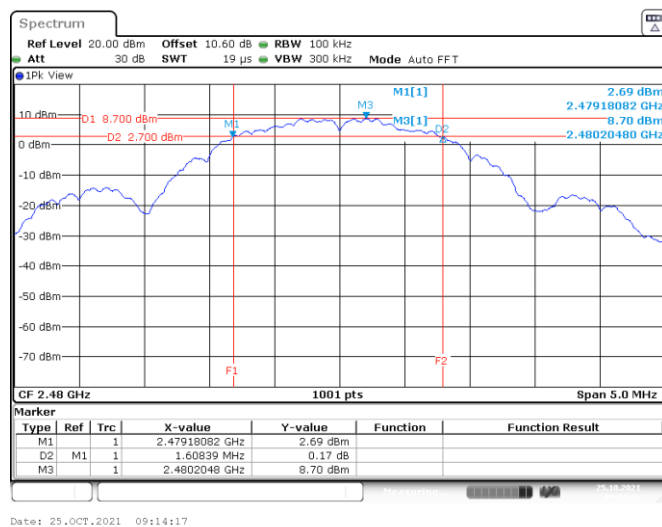
High Channel



Date: 25.OCT.2021 09:11:46

Zigbee_1Mbps

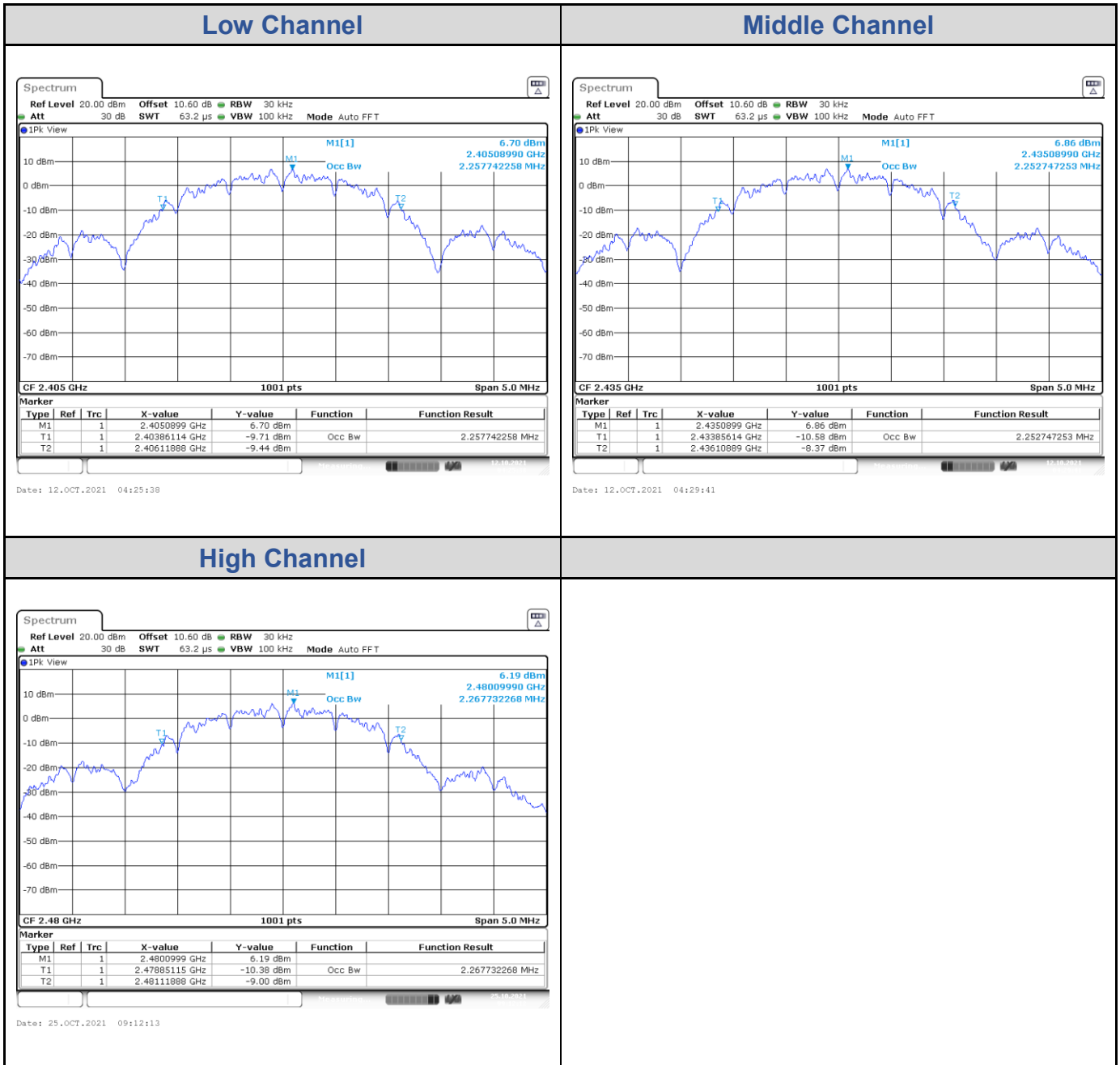
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Limit (kHz)	Result
Low Channel	2405	1593.41	> 500	Pass
Middle Channel	2435	1588.41	> 500	Pass
High Channel	2480	1608.39	> 500	Pass

Low Channel

Middle Channel

High Channel


Test Result of 99% Occupied Bandwidth

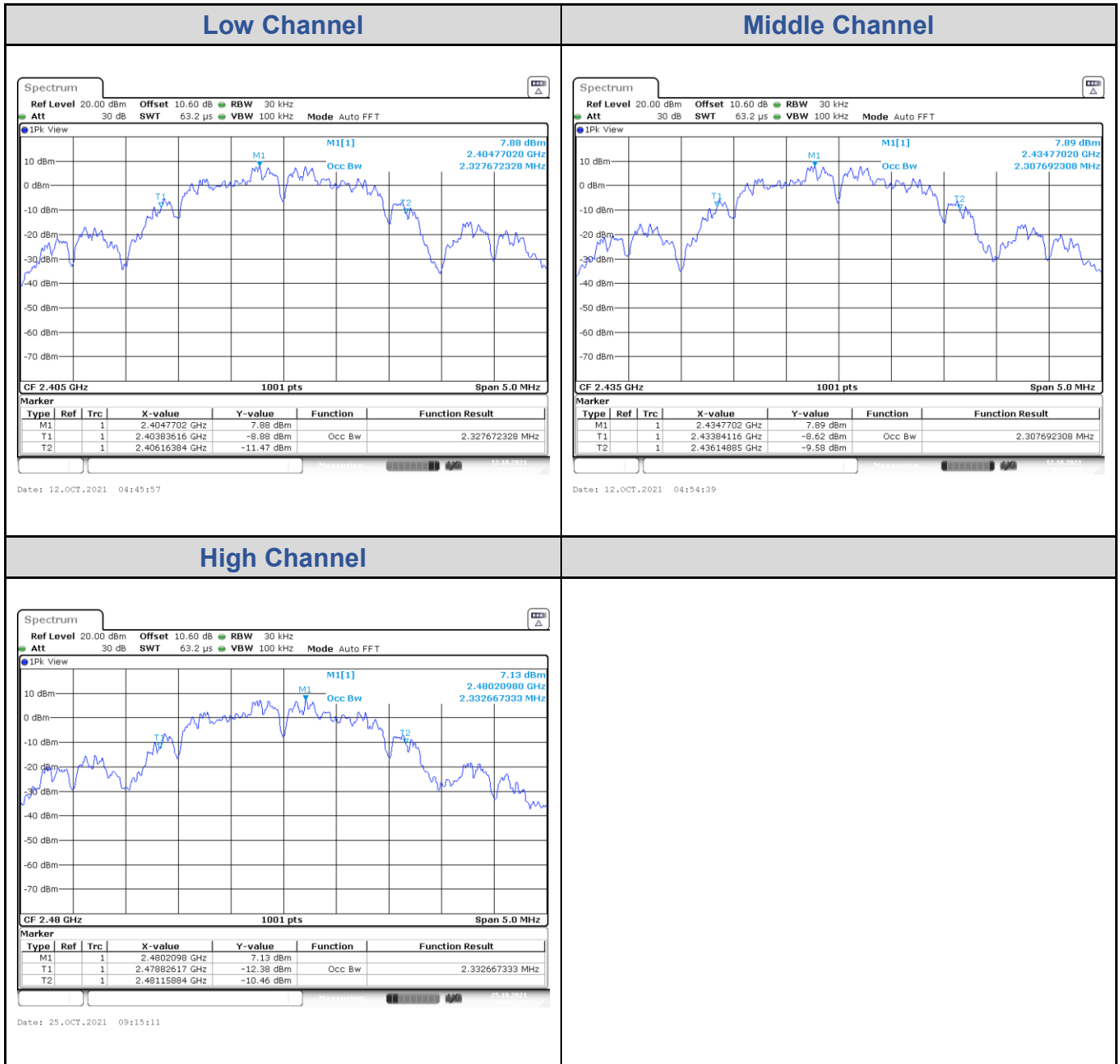
Zigbee_250kHz

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2405	2.26
Middle Channel	2435	2.25
High Channel	2480	2.27



Zigbee_1Mbps

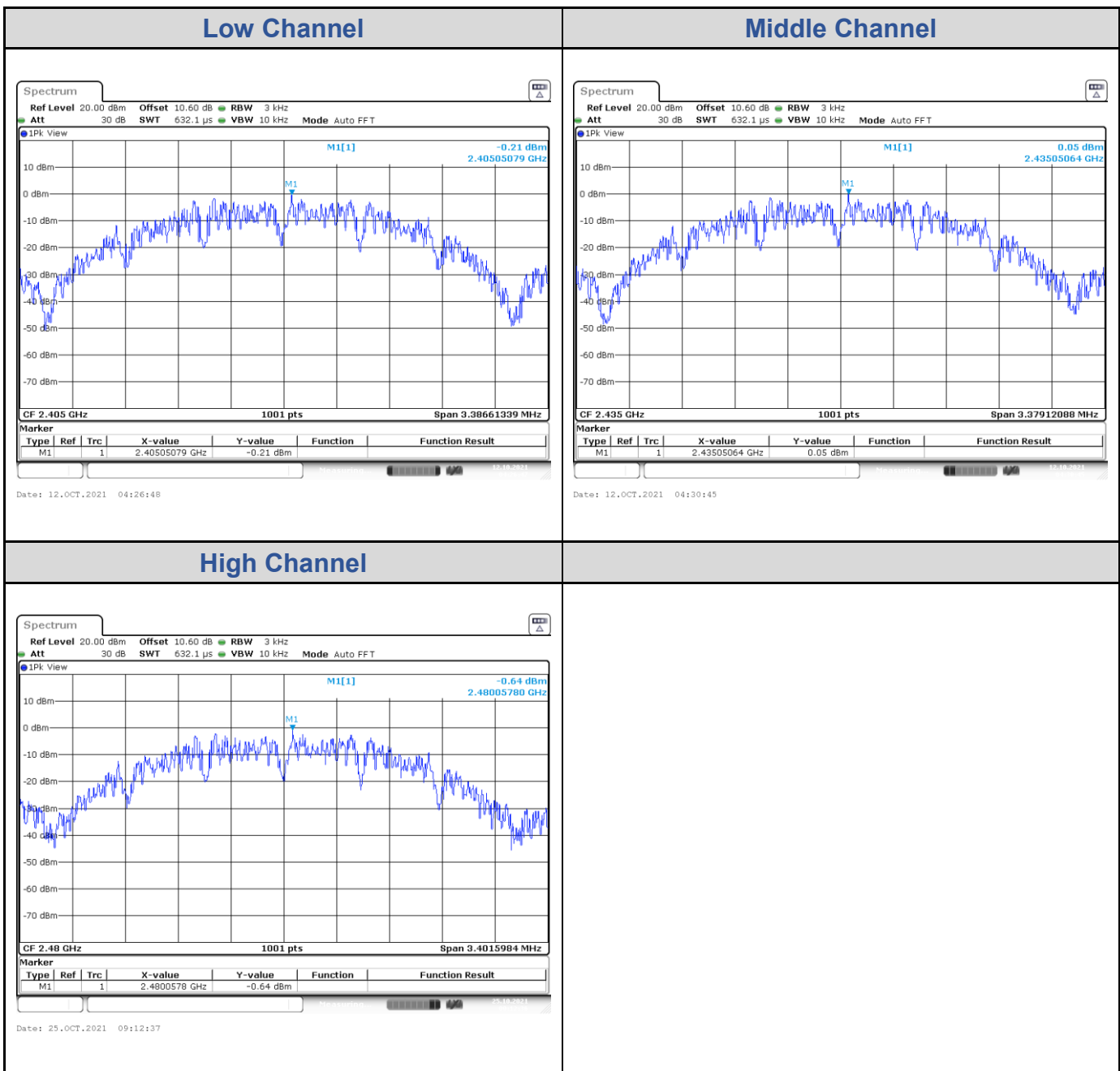
Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2405	2.33
Middle Channel	2435	2.31
High Channel	2480	2.33



Test Result of Power Spectral Density

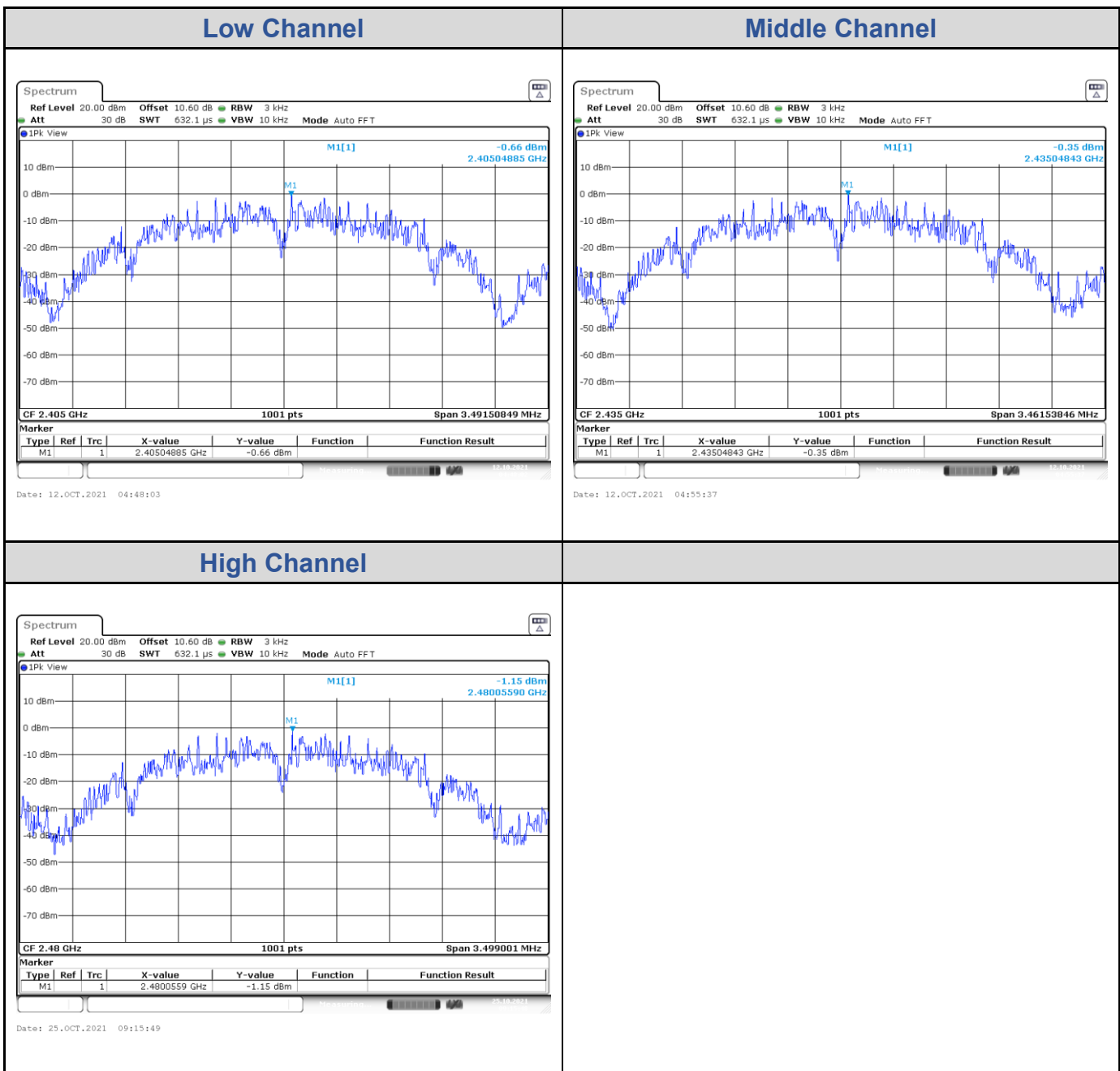
Zigbee_250kHz

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2405	-0.21	8	Pass
Middle Channel	2435	0.05	8	Pass
High Channel	2480	-0.64	8	Pass



Zigbee_1Mbps

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2405	-0.66	8	Pass
Middle Channel	2435	-0.35	8	Pass
High Channel	2480	-1.15	8	Pass

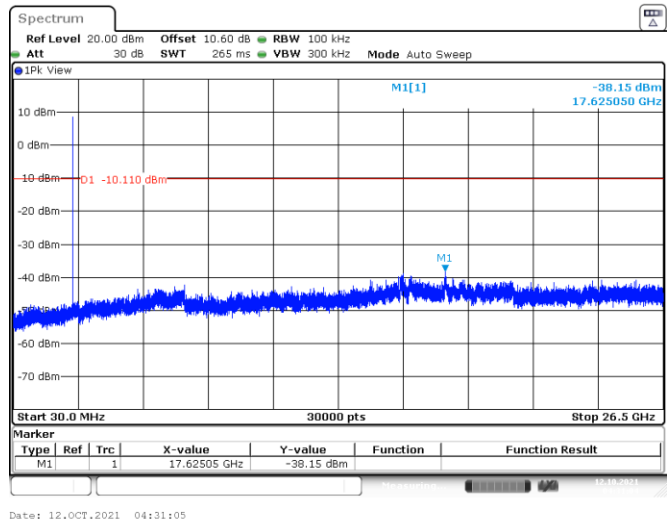
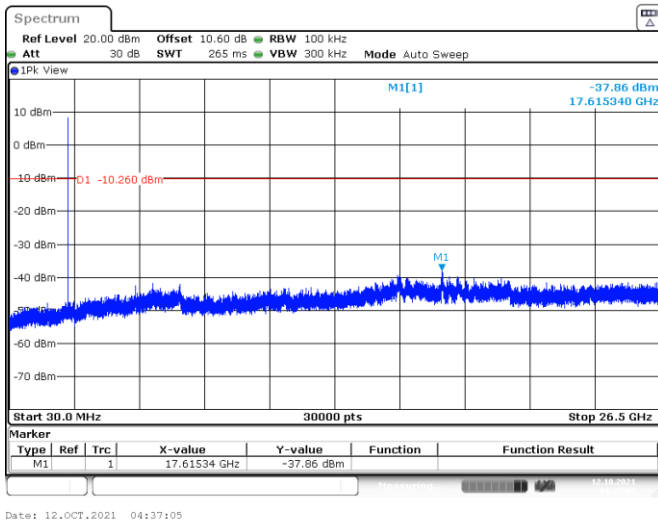


Test Result of Conducted Spurious Emissions, Tx Mode

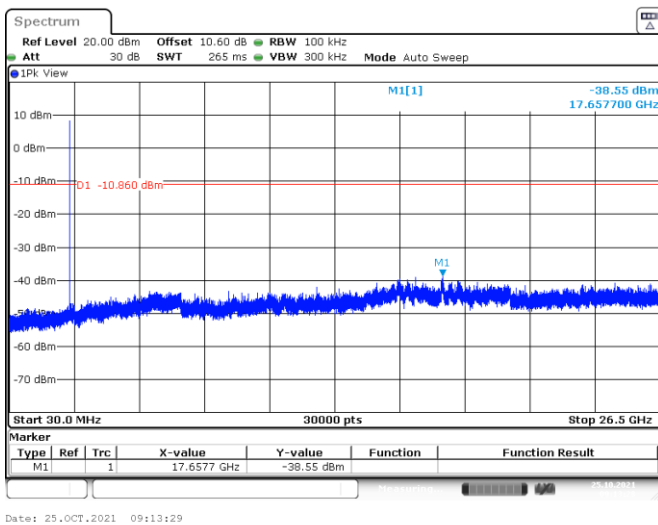
Zigbee_250kHz

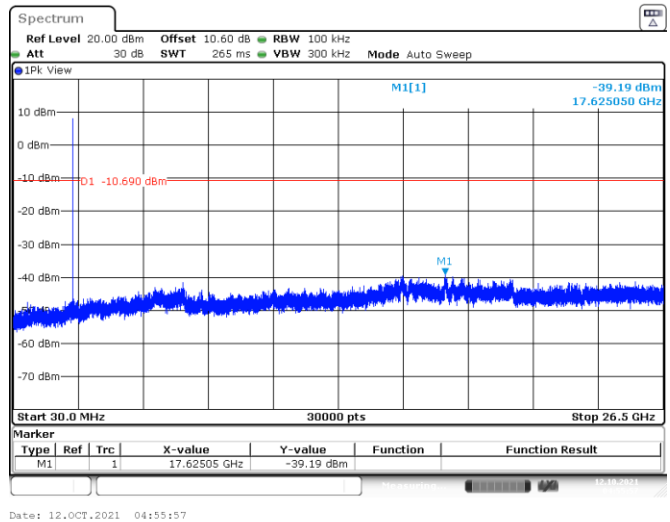
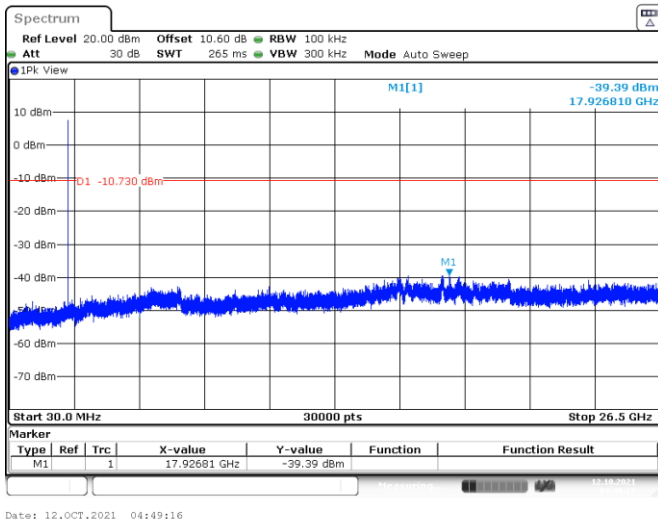
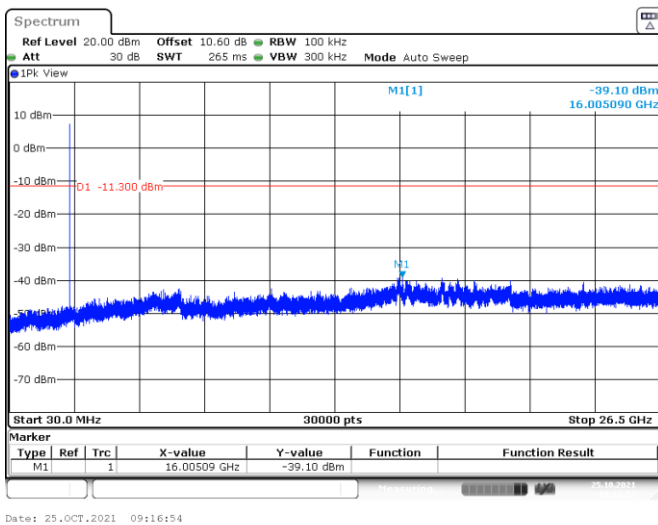
Low Channel

Middle Channel



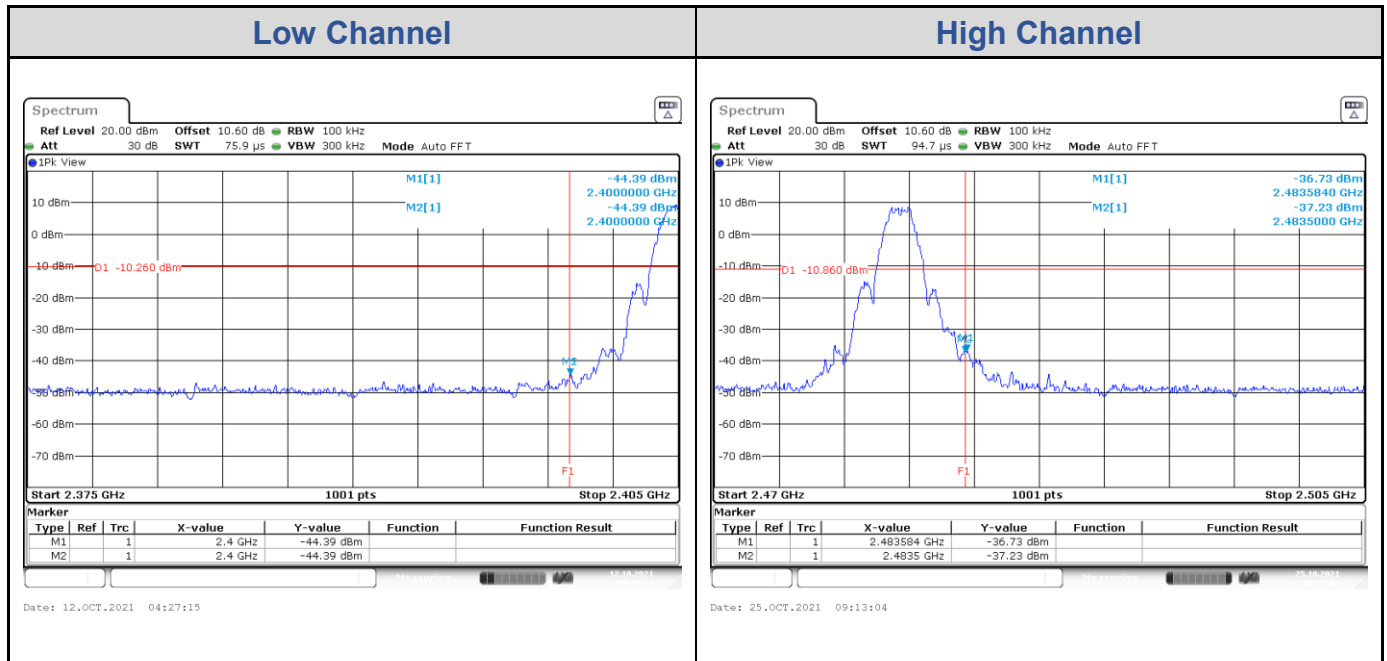
High Channel



Zigbee_1Mbps
Low Channel
Middle Channel

High Channel


Test Result of Conducted Band Edge, Tx Mode

Zigbee_250kHz



Zigbee_1Mbps

