

FCC2021-0012-RF

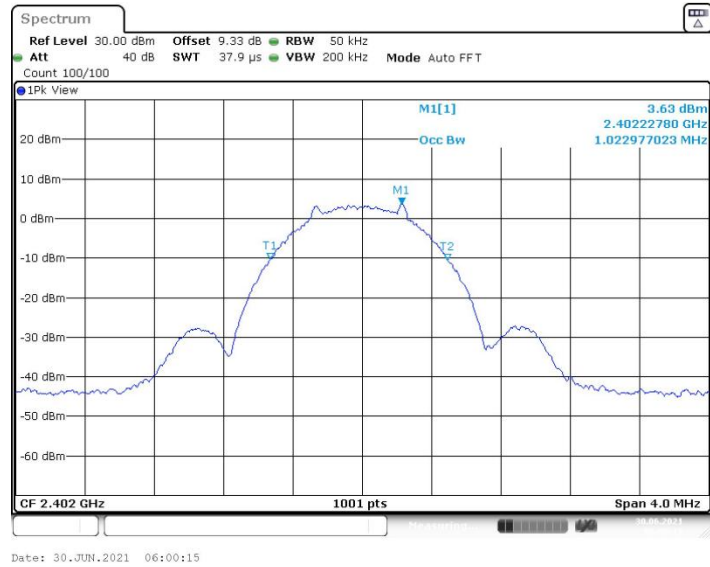
Occupied Channel Bandwidth

Test Result

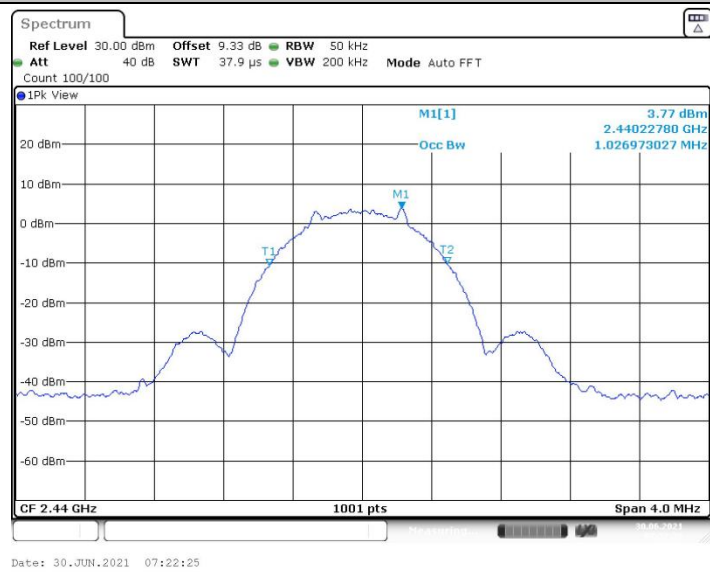
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.023	2401.469	2402.492	---	PASS
		2440	1.027	2439.465	2440.492	---	PASS
		2480	1.031	2479.465	2480.496	---	PASS

Test Graphs

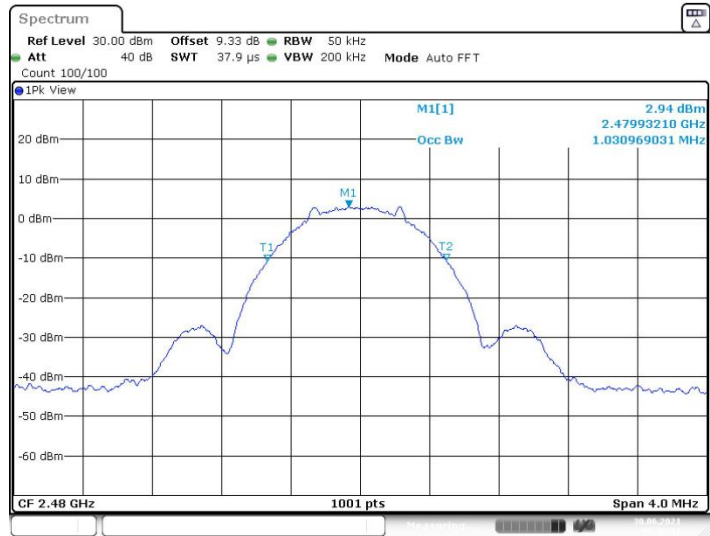
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Date: 30.JUN.2021 07:30:40

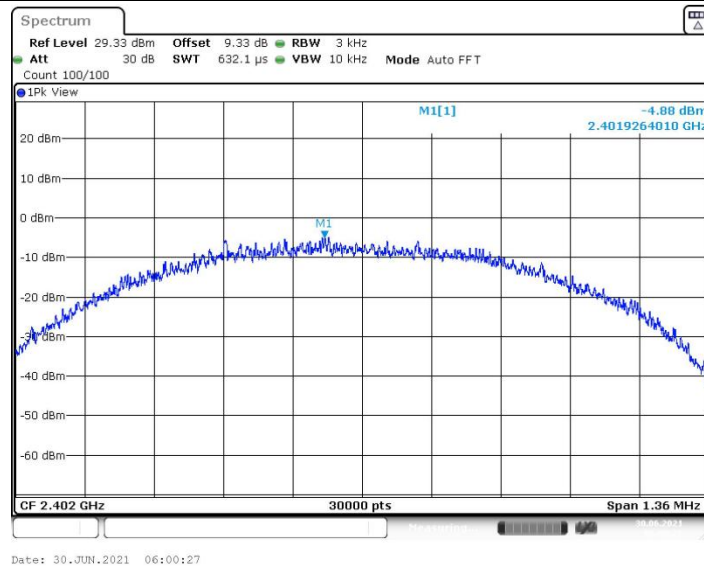
Maximum power spectral density

Test Result

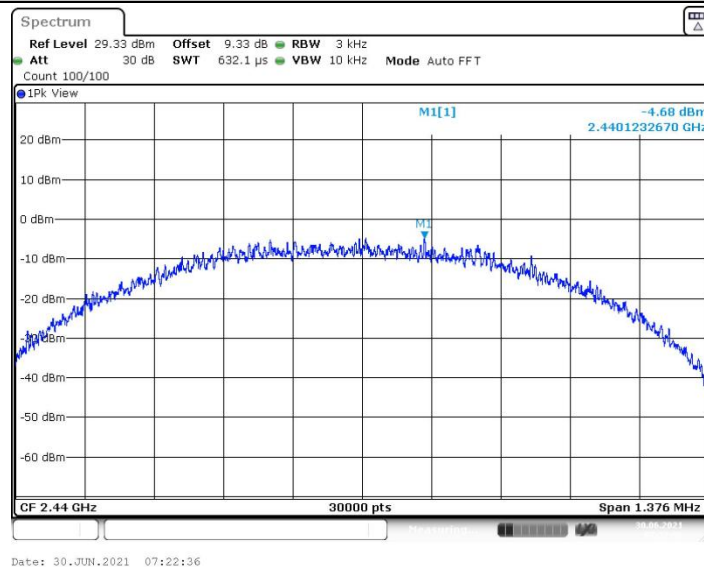
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.88	<=8	PASS
		2440	-4.68	<=8	PASS
		2480	-4.7	<=8	PASS

Test Graphs

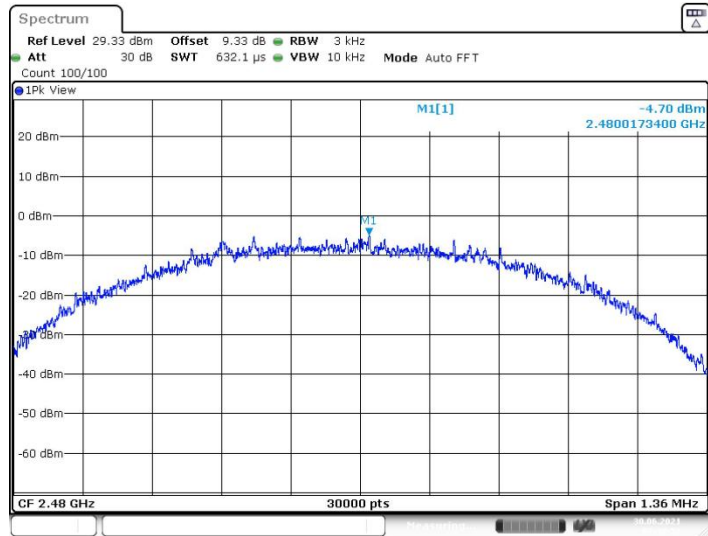
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Date: 30.JUN.2021 07:30:52

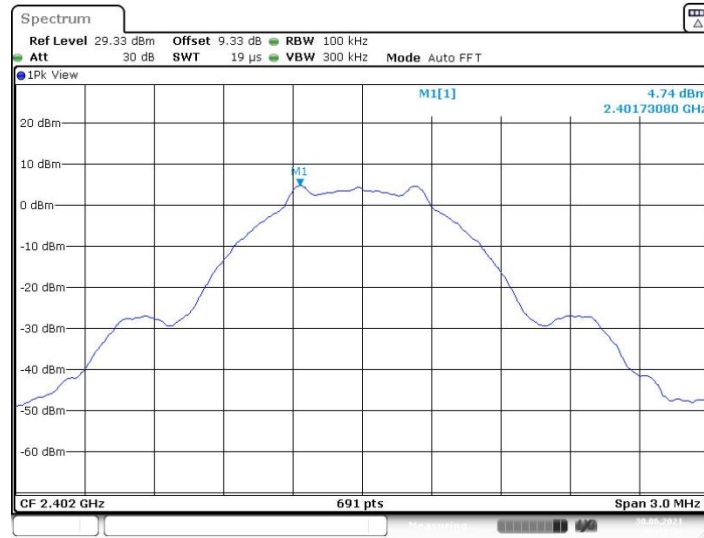
Conducted Spurious Emission

Test Result

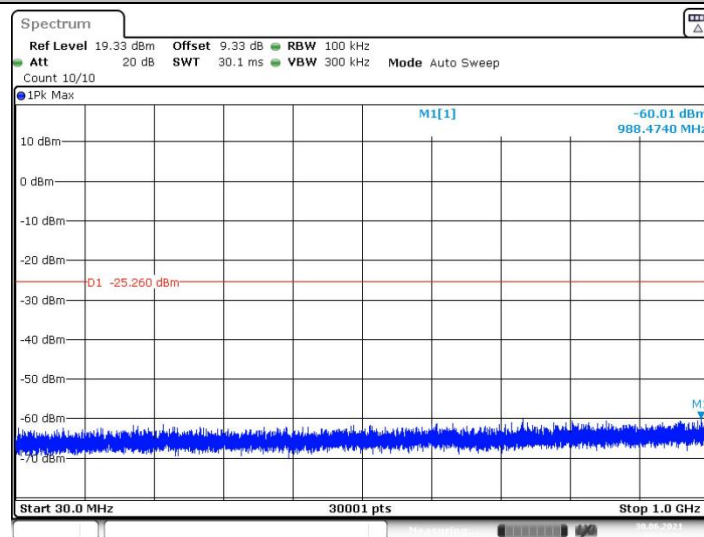
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.74	4.74	---	PASS
			30~1000	4.74	-60.01	<=-25.26	PASS
			1000~26500	4.74	-48.95	<=-25.26	PASS
		2440	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-60.17	<=-25.31	PASS
			1000~26500	4.69	-49.12	<=-25.31	PASS
		2480	Reference	4.56	4.56	---	PASS
			30~1000	4.56	-60.14	<=-25.44	PASS
			1000~26500	4.56	-49.35	<=-25.44	PASS

Test Graphs

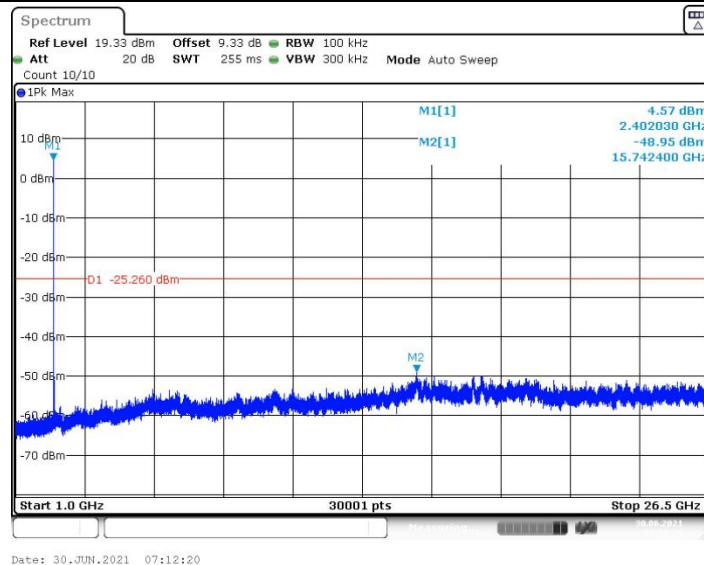
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



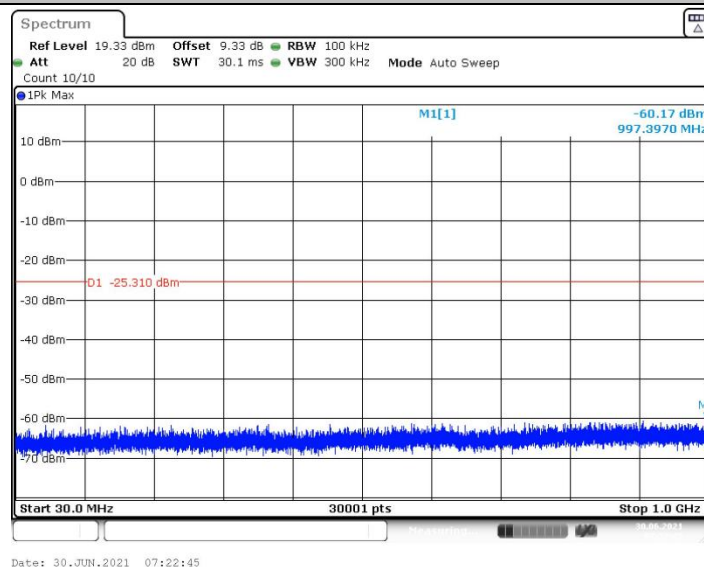
BLE_1M_Ant1_2402_1000~26500



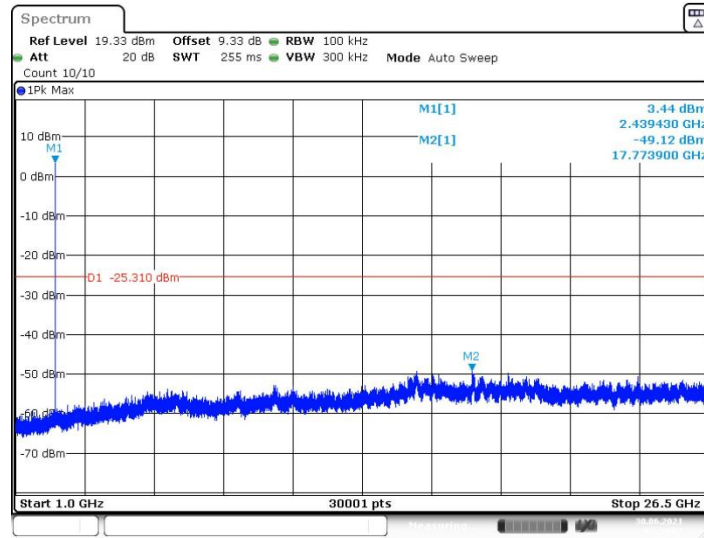
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

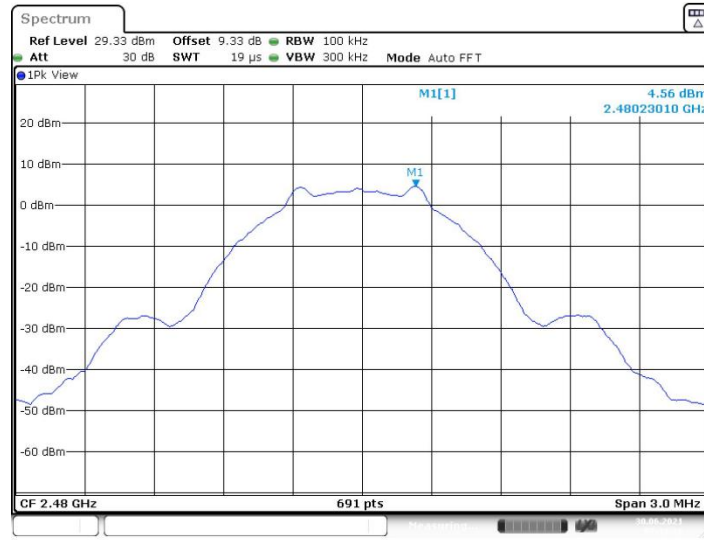


BLE_1M_Ant1_2440_1000~26500



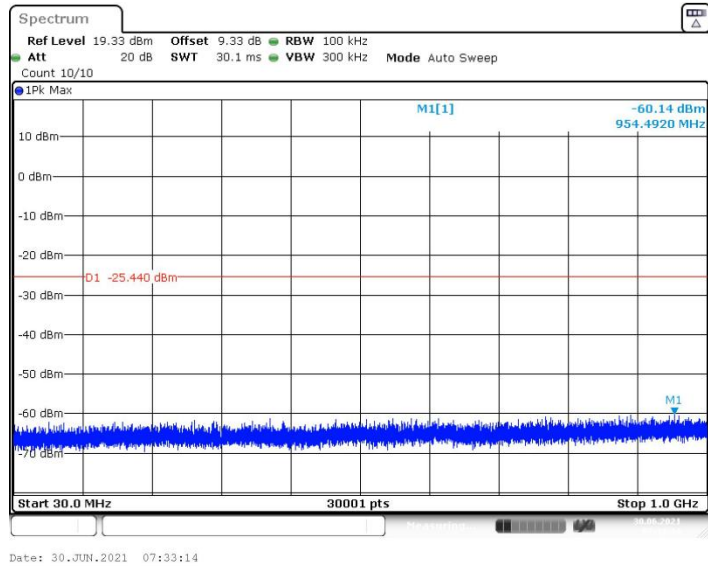
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BLE_1M_Ant1_2480_0~Reference

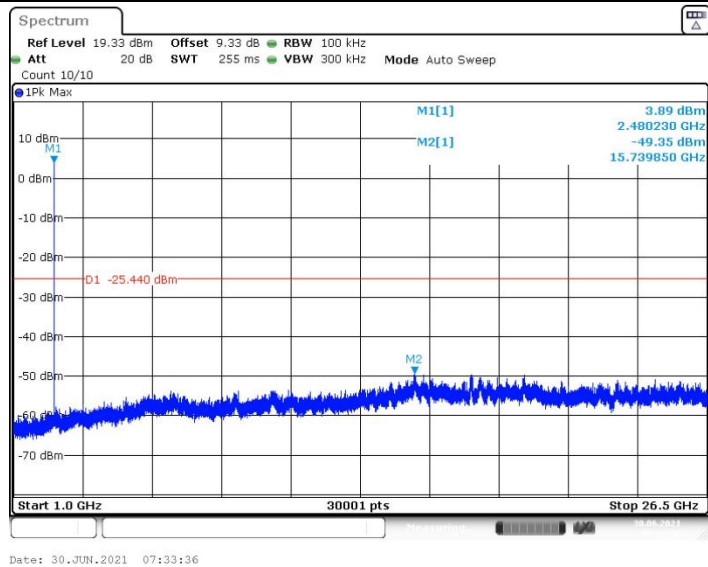


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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix H: Emissions in Restricted Bands

Test Result

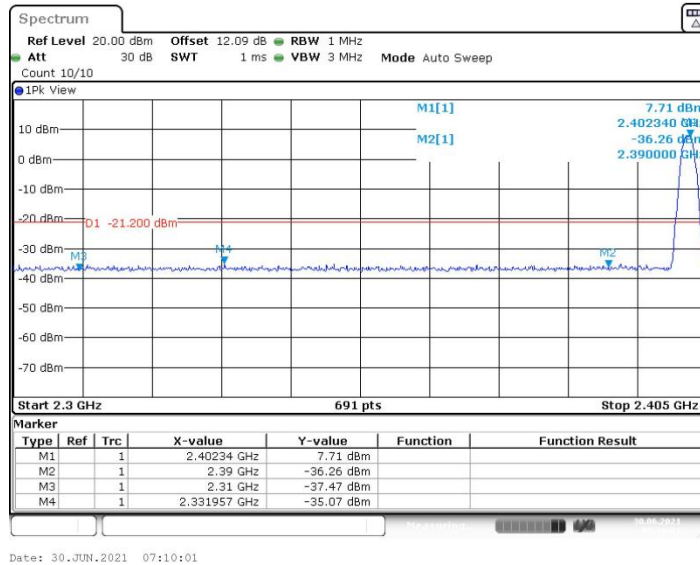
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-49.72	<=-41.20	PASS
				AV	2338.348	-49.07	<=-41.20	PASS
				AV	2390.000	-49.69	<=-41.20	PASS
				Peak	2310.000	-37.47	<=-21.20	PASS
				Peak	2331.957	-35.07	<=-21.20	PASS
				Peak	2390.000	-36.26	<=-21.20	PASS
		High	2480	AV	2483.500	-48.83	<=-41.20	PASS
				AV	2500.000	-48.9	<=-41.20	PASS
				Peak	2483.500	-35.75	<=-21.20	PASS
				Peak	2491.333	-34.17	<=-21.20	PASS
				Peak	2500.000	-36.43	<=-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.

Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_High_2480_AV

