

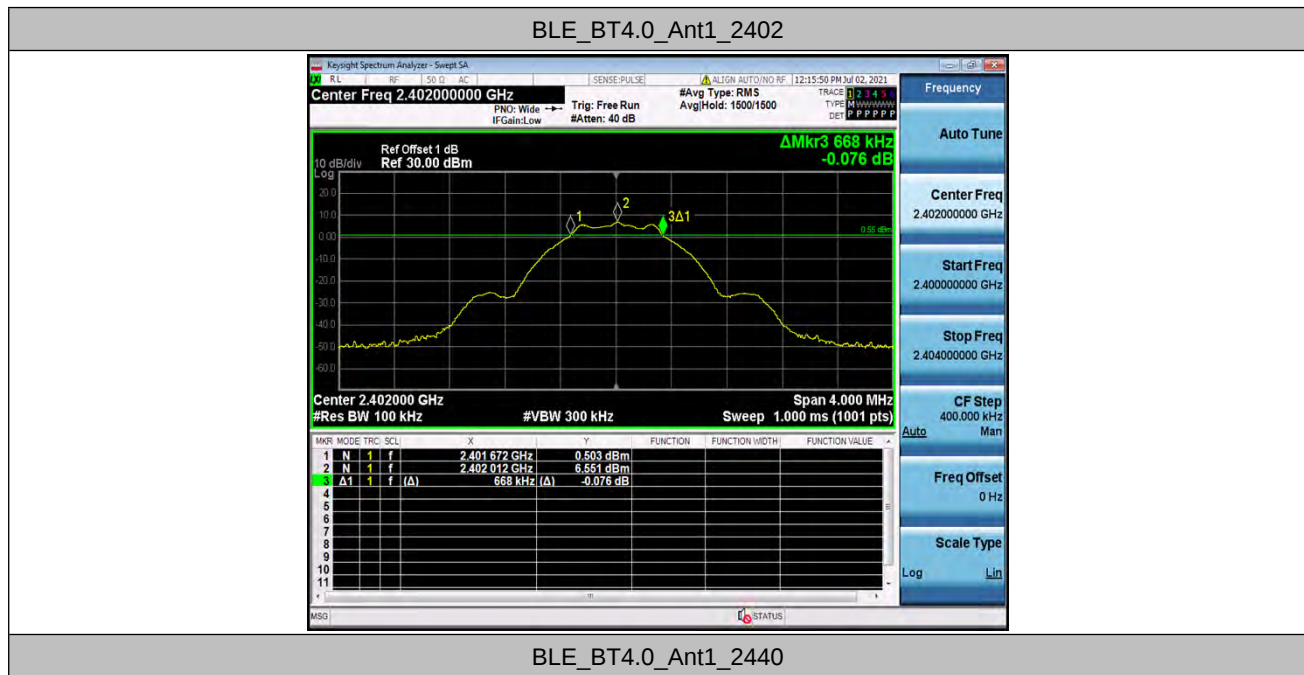
Annex for FCC BLE

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	0.668	2401.672	2402.340	0.5	PASS
		2440	0.676	2439.668	2440.344	0.5	PASS
		2480	0.676	2479.668	2480.344	0.5	PASS
BLE_BT5.0	Ant1	2402	1.136	2401.448	2402.584	0.5	PASS
		2440	1.176	2439.416	2440.592	0.5	PASS
		2480	1.140	2479.444	2480.584	0.5	PASS

Test Graphs





BLE_BT4.0_Ant1_2480



BLE_BT5.0_Ant1_2402



BLE_BT5.0_Ant1_2440



BLE_BT5.0_Ant1_2480

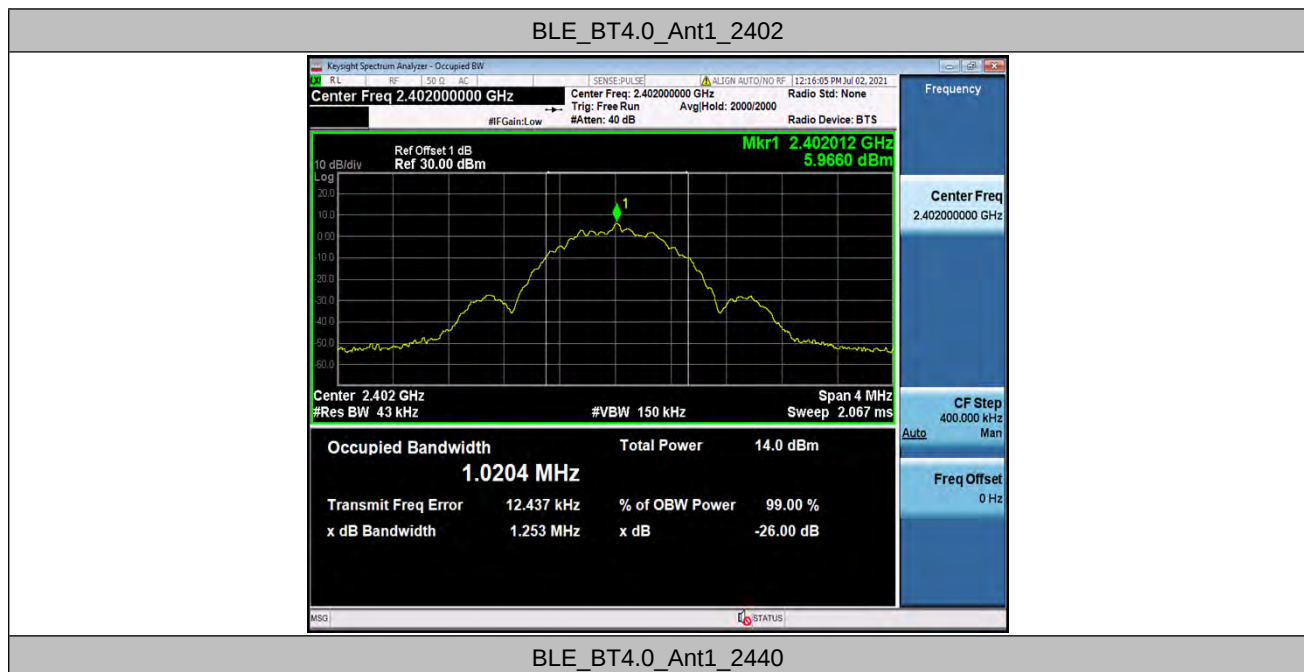


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	1.0204	2401.502	2402.523	---	PASS
		2440	1.0234	2439.501	2440.524	---	PASS
		2480	1.0331	2479.489	2480.523	---	PASS
BLE_BT5.0	Ant1	2402	2.0590	2400.998	2403.057	---	PASS
		2440	2.0565	2438.999	2441.056	---	PASS
		2480	2.0534	2478.999	2481.053	---	PASS

Test Graphs





BLE_BT4.0_Ant1_2480



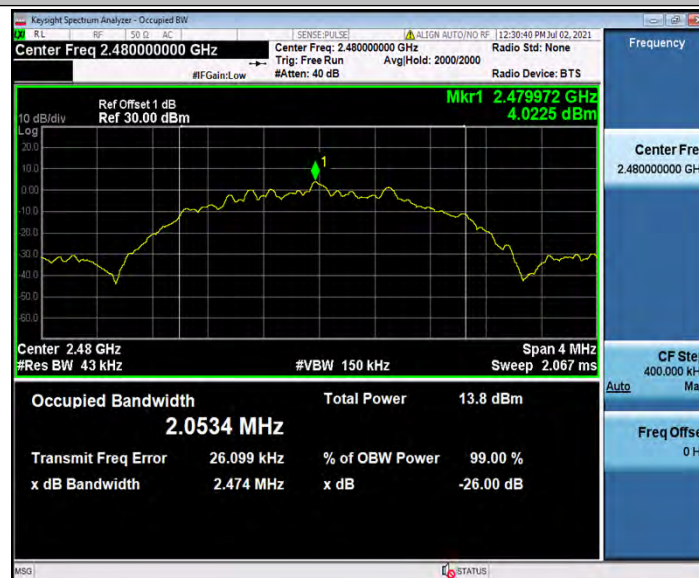
BLE_BT5.0_Ant1_2402



BLE_BT5.0_Ant1_2440



BLE_BT5.0_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	6.60	<=30	PASS
		2440	6.71	<=30	PASS
		2480	6.62	<=30	PASS
BLE_BT5.0	Ant1	2402	6.57	<=30	PASS
		2440	6.74	<=30	PASS
		2480	6.66	<=30	PASS

EIRP:

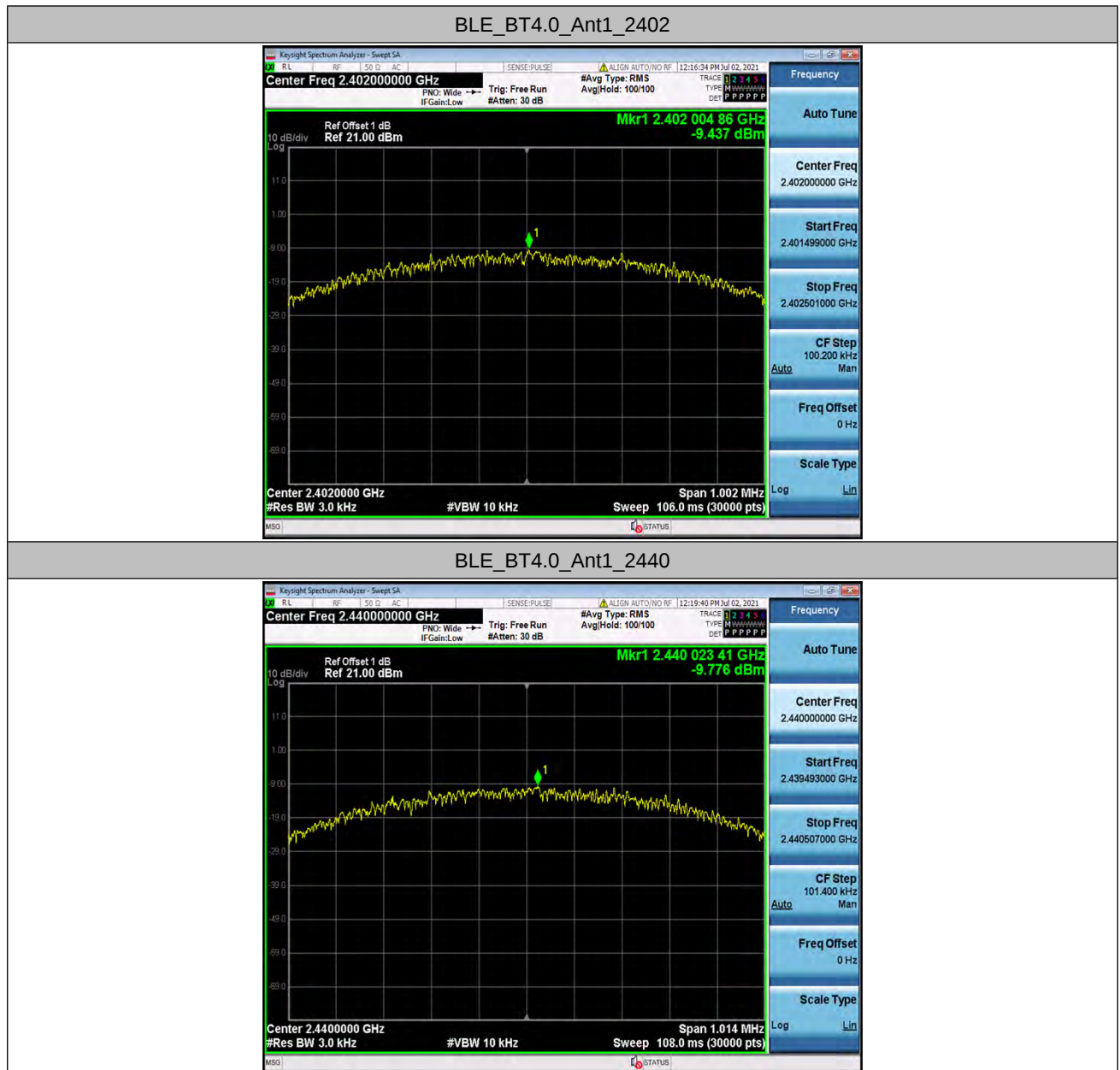
TestMode	Antenna	Channel	Result[dBm]	Antenna Gain [dBi]	EIRP [dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	6.60	3.57	10.17	<=36	PASS
		2440	6.71	3.57	10.28	<=36	PASS
		2480	6.62	3.57	10.19	<=36	PASS
BLE_BT5.0	Ant1	2402	6.57	3.57	10.14	<=36	PASS
		2440	6.74	3.57	10.31	<=36	PASS
		2480	6.66	3.57	10.23	<=36	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT4.0	Ant1	2402	-9.44	<=8	PASS
		2440	-9.78	<=8	PASS
		2480	-8.91	<=8	PASS
BLE_BT5.0	Ant1	2402	-11.77	<=8	PASS
		2440	-11.62	<=8	PASS
		2480	-10.32	<=8	PASS

Test Graphs



BLE_BT4.0_Ant1_2480



BLE_BT5.0_Ant1_2402



BLE_BT5.0_Ant1_2440



BLE_BT5.0_Ant1_2480



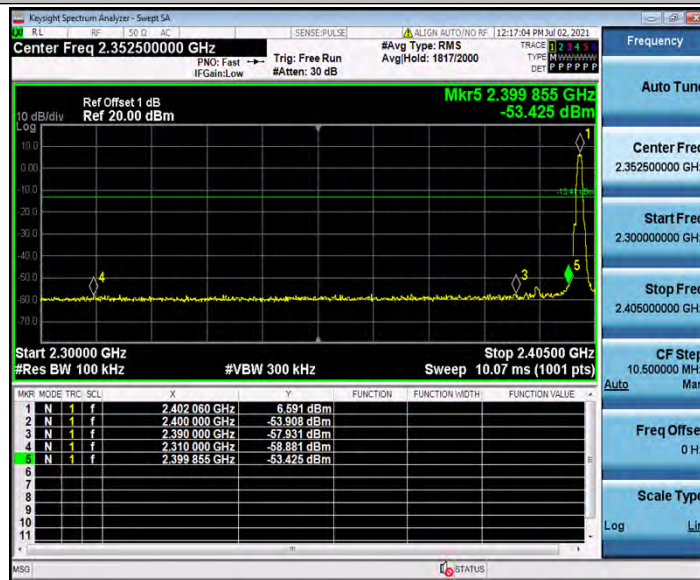
Appendix E: Band edge measurements

Test Result

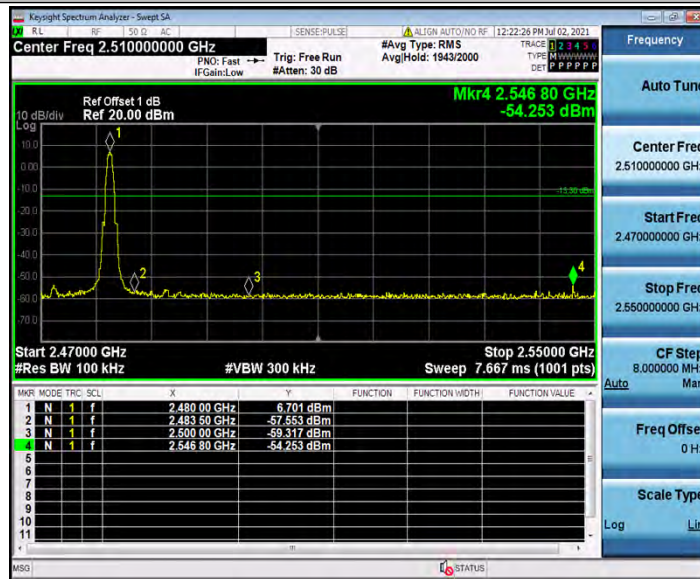
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	Low	2402	6.59	-53.43	<=-13.41	PASS
		High	2480	6.70	-54.25	<=-13.3	PASS
BLE_BT5.0	Ant1	Low	2402	6.40	-26.97	<=-13.6	PASS
		High	2480	6.50	-53.77	<=-13.5	PASS

Test Graphs

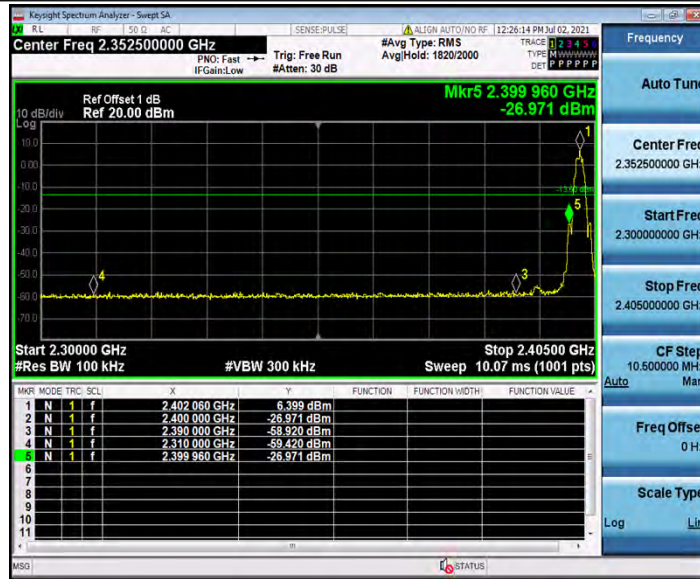
BLE_BT4.0_Ant1_Low_2402



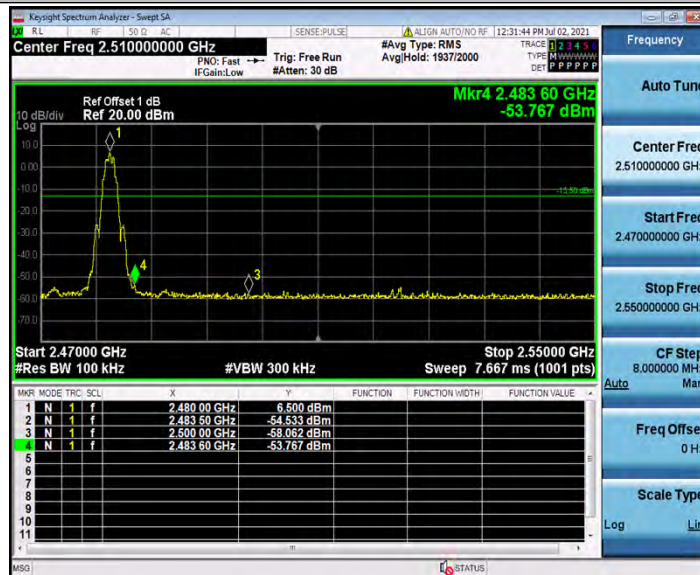
BLE_BT4.0_Ant1_High_2480



BLE_BT5.0_Ant1_Low_2402



BLE_BT5.0_Ant1_High_2480



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	Reference	5.43	5.43	---	PASS
			30~3000	5.43	-49.32	<=-24.57	PASS
			3000~26500	5.43	-43.48	<=-24.57	PASS
		2440	Reference	6.06	6.06	---	PASS
			30~3000	6.06	-50.44	<=-23.94	PASS
			3000~26500	6.06	-45.33	<=-23.94	PASS
		2480	Reference	6.26	6.26	---	PASS
			30~3000	6.26	-48.95	<=-23.74	PASS
			3000~26500	6.26	-45.11	<=-23.74	PASS
BLE_BT5.0	Ant1	2402	Reference	6.33	6.33	---	PASS
			30~3000	6.33	-45.96	<=-23.67	PASS
			3000~26500	6.33	-44.65	<=-23.67	PASS
		2440	Reference	6.53	6.53	---	PASS
			30~3000	6.53	-47.27	<=-23.47	PASS
			3000~26500	6.53	-44.87	<=-23.47	PASS
		2480	Reference	6.23	6.23	---	PASS
			30~3000	6.23	-55.68	<=-23.77	PASS
			3000~26500	6.23	-45.12	<=-23.77	PASS

Test Graphs

BLE_BT4.0_Ant1_2402_0~Reference



BLE_BT4.0_Ant1_2402_30~3000



BLE_BT4.0_Ant1_2402_3000~26500



BLE_BT4.0_Ant1_2440_0~Reference



BLE_BT4.0_Ant1_2440_30~3000



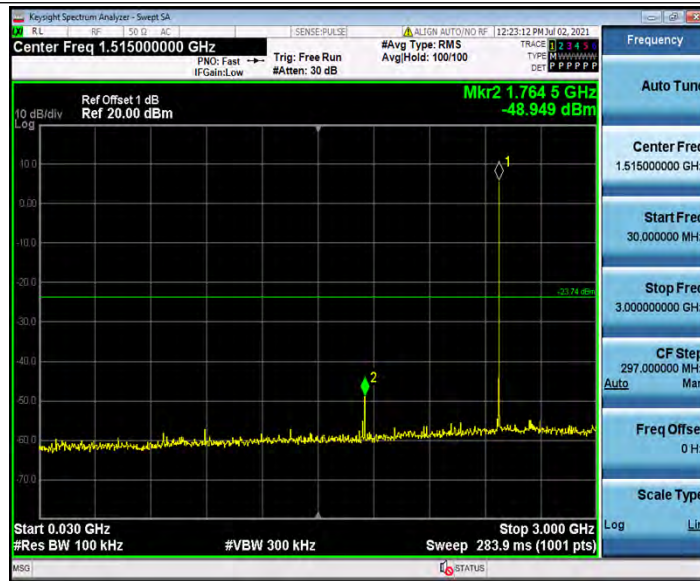
BLE_BT4.0_Ant1_2440_3000~26500



BLE_BT4.0_Ant1_2480_0~Reference



BLE_BT4.0_Ant1_2480_30~3000



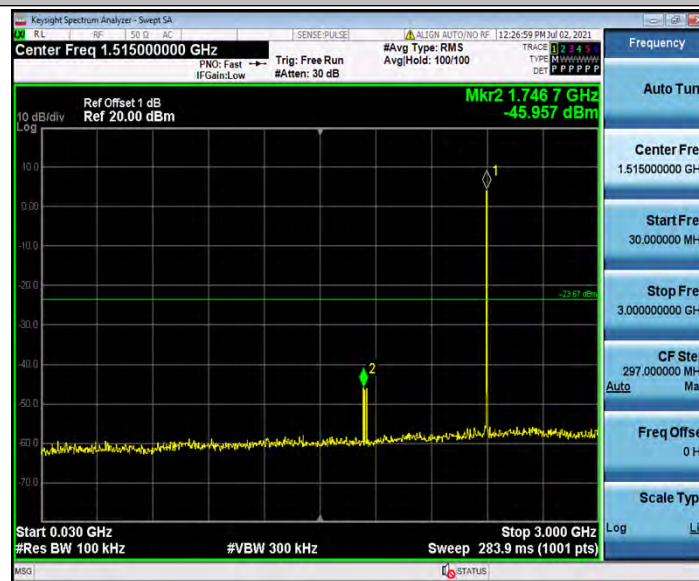
BLE_BT4.0_Ant1_2480_3000~26500



BLE_BT5.0_Ant1_2402_0~Reference



BLE_BT5.0_Ant1_2402_30~3000



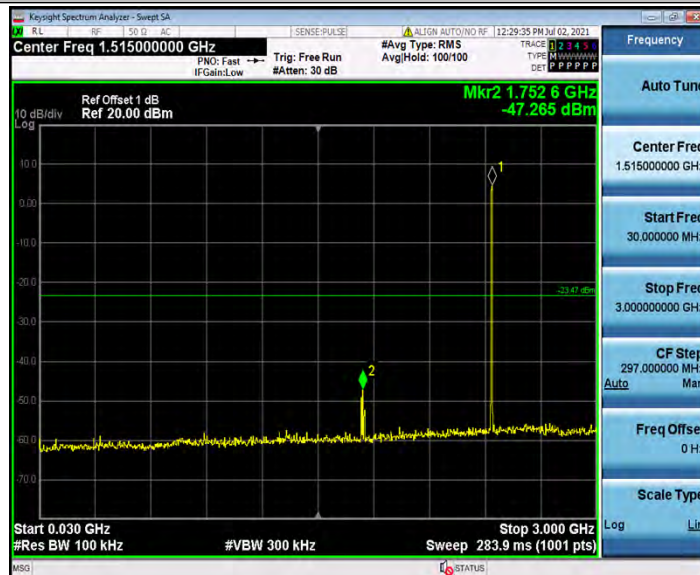
BLE_BT5.0_Ant1_2402_3000~26500



BLE_BT5.0_Ant1_2440_0~Reference



BLE_BT5.0_Ant1_2440_30~3000



BLE_BT5.0_Ant1_2440_3000~26500



BLE_BT5.0_Ant1_2480_0-Reference



BLE_BT5.0_Ant1_2480_30-3000



BLE_BT5.0_Ant1_2480_3000-26500



***** End *****