

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.660	2402.336	0.5	PASS
		2440	0.672	2439.660	2440.332	0.5	PASS
		2480	0.668	2479.660	2480.328	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



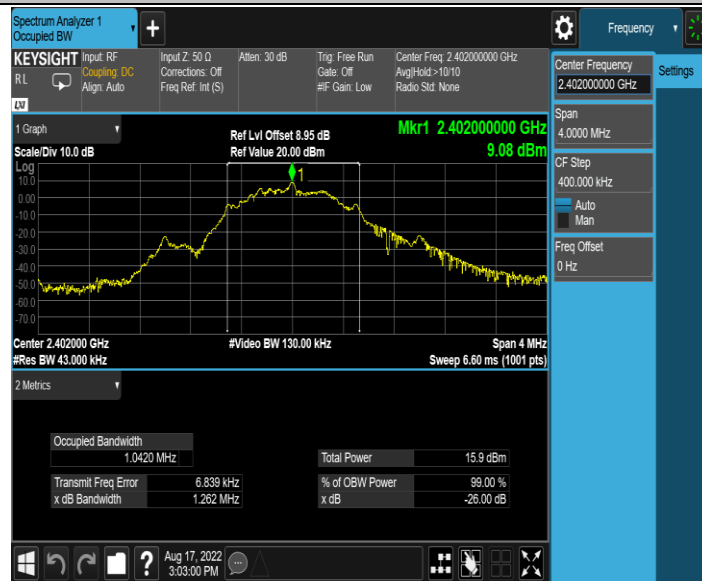
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0391	2401.485	2402.524	---	---
		2440	1.0458	2439.485	2440.531	---	---
		2480	1.0505	2479.491	2480.542	---	---

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	9.64	≤30	10.72	≤36	PASS
		2440	9.86	≤30	10.94	≤36	PASS
		2480	10.04	≤30	11.12	≤36	PASS

Appendix D: Maximum power spectral density

Test Result

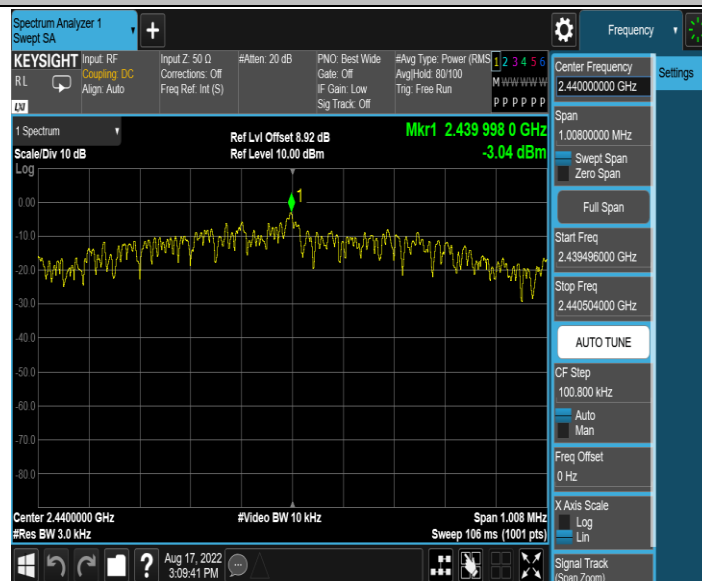
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.16	≤8.00	PASS
		2440	-3.04	≤8.00	PASS
		2480	-2.79	≤8.00	PASS

Test Graphs

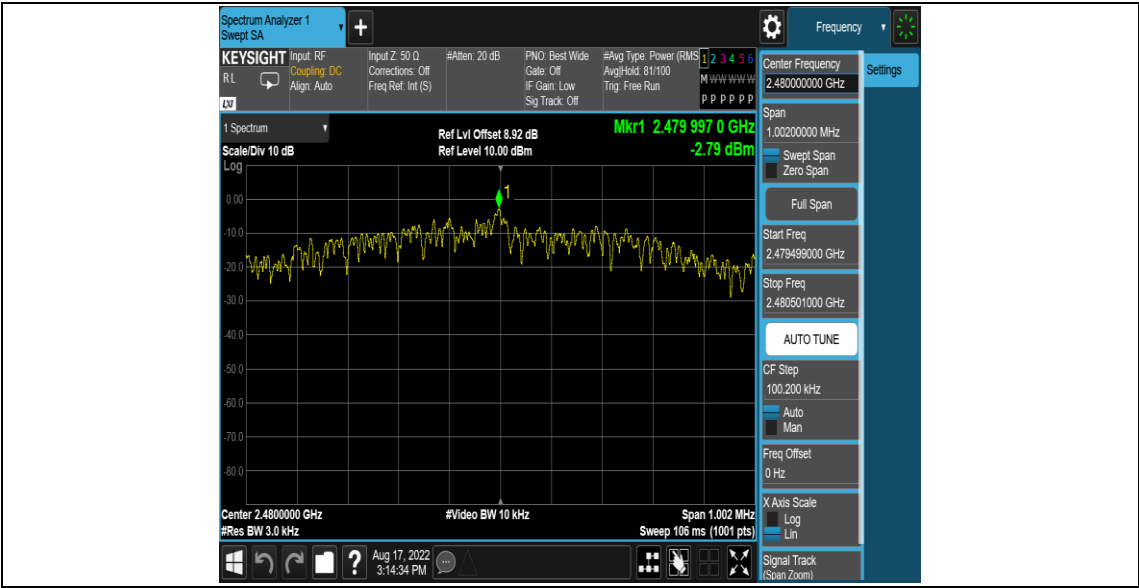
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.00	9.14
		2440	2440.00	9.38
		2480	2480.00	9.55

Test Graphs

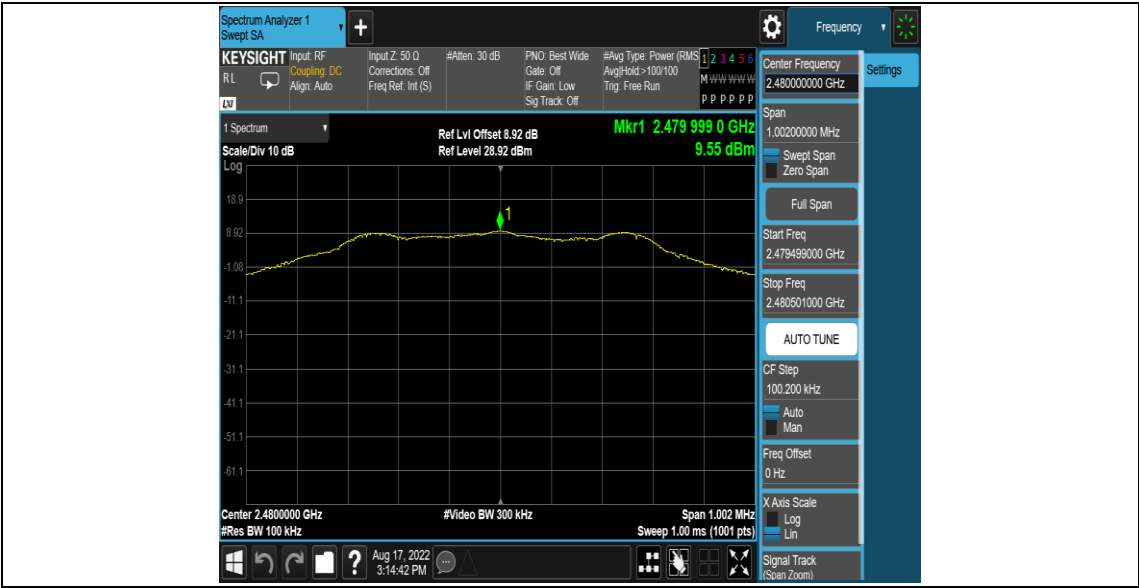
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



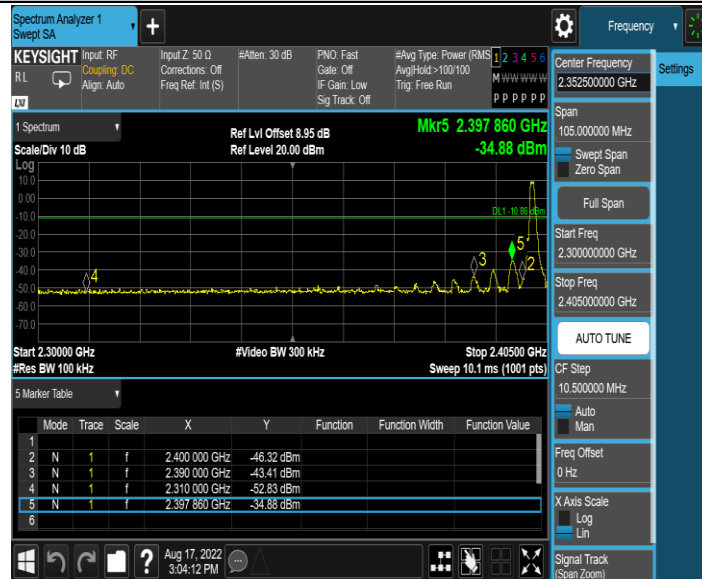
Appendix E: Band edge measurements

Test Result

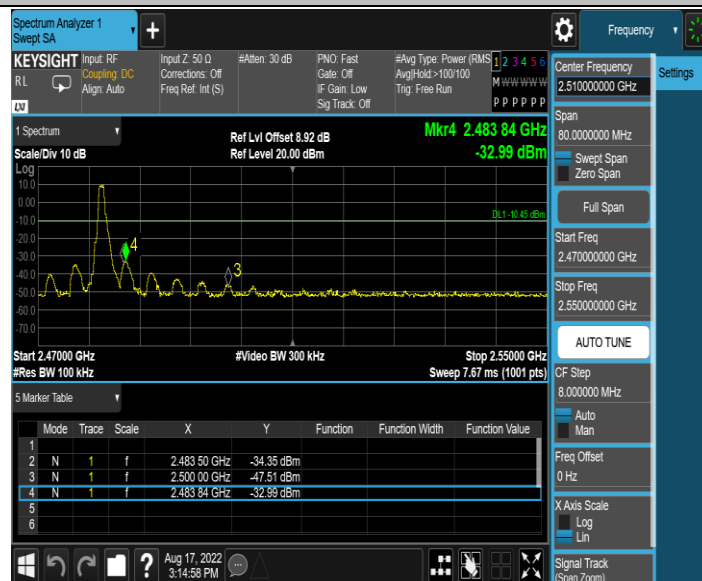
TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	9.14	-34.88	≤-10.86	PASS
		High	2480	9.55	-32.99	≤-10.45	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



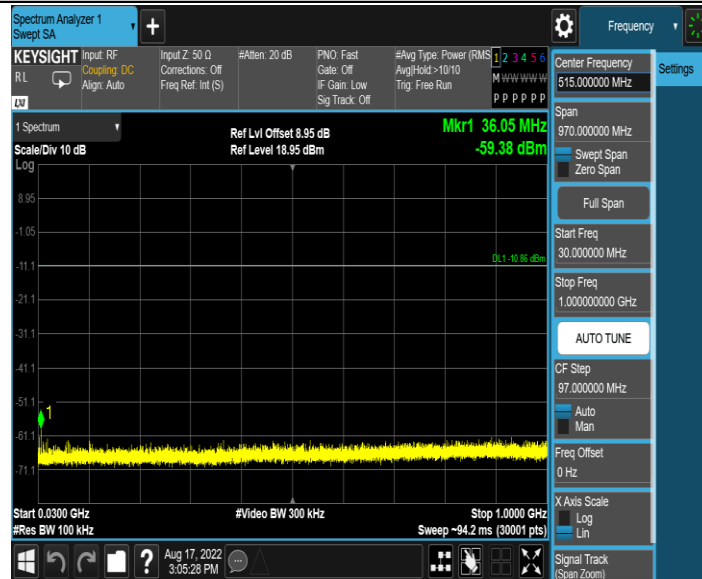
Appendix F: Conducted Spurious Emission

Test Result

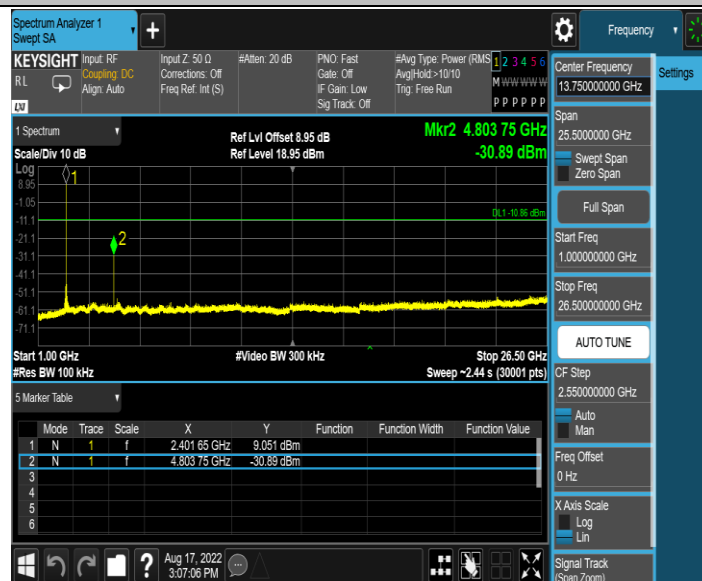
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	9.14	-59.38	≤-10.86	PASS
			1000~26500	9.14	-30.89	≤-10.86	PASS
		2440	30~1000	9.38	-60.59	≤-10.62	PASS
			1000~26500	9.38	-29.43	≤-10.62	PASS
		2480	30~1000	9.55	-61.7	≤-10.45	PASS
			1000~26500	9.55	-29.44	≤-10.45	PASS

Test Graphs

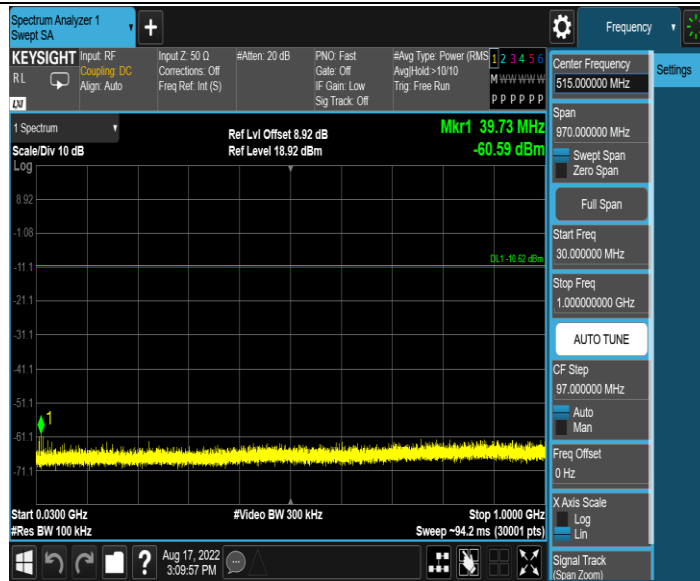
BLE_1M_Ant1_2402_30~1000



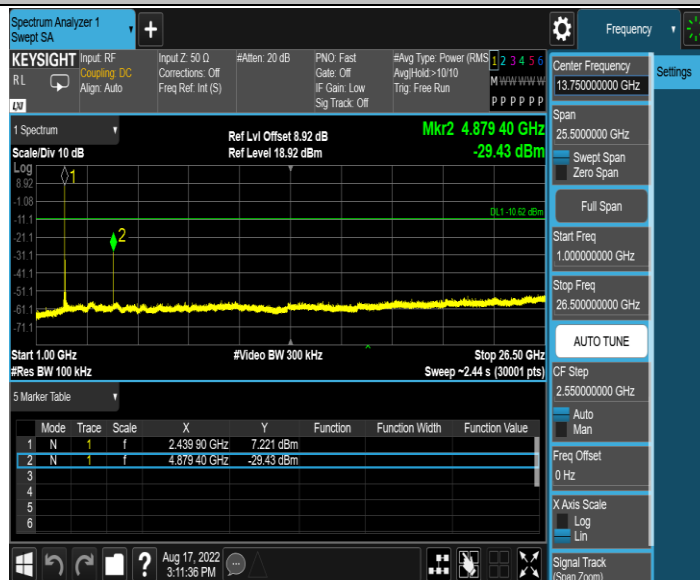
BLE_1M_Ant1_2402_1000~26500



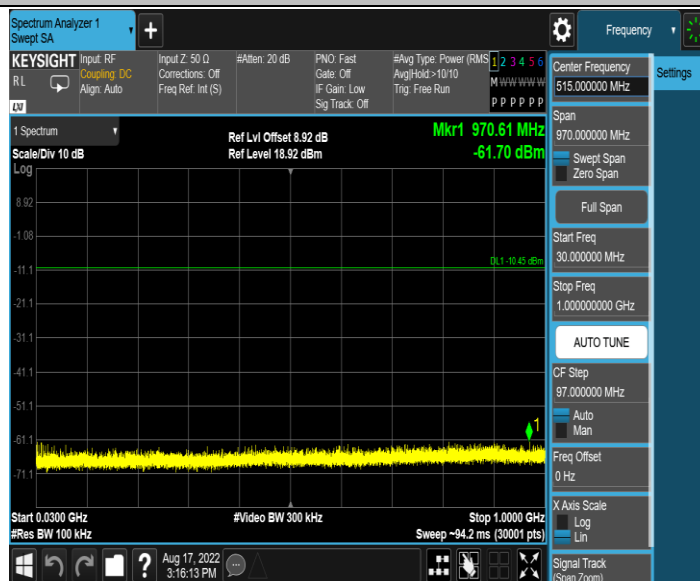
BLE_1M_Ant1_2440_30~1000



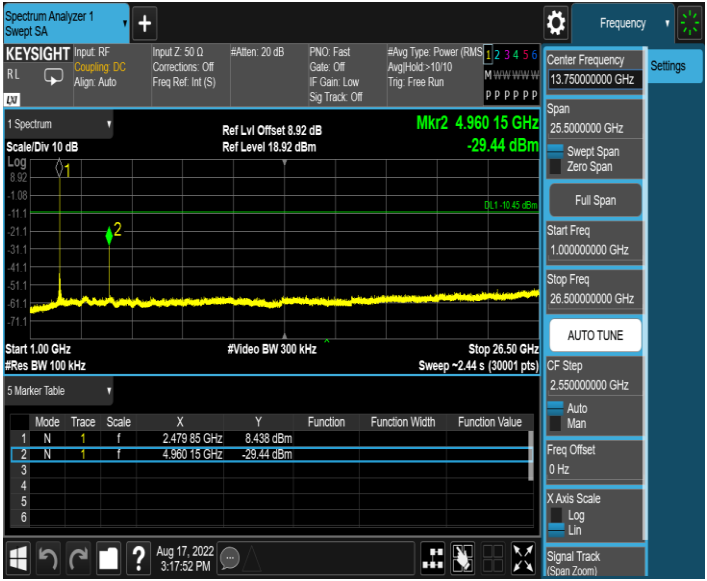
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



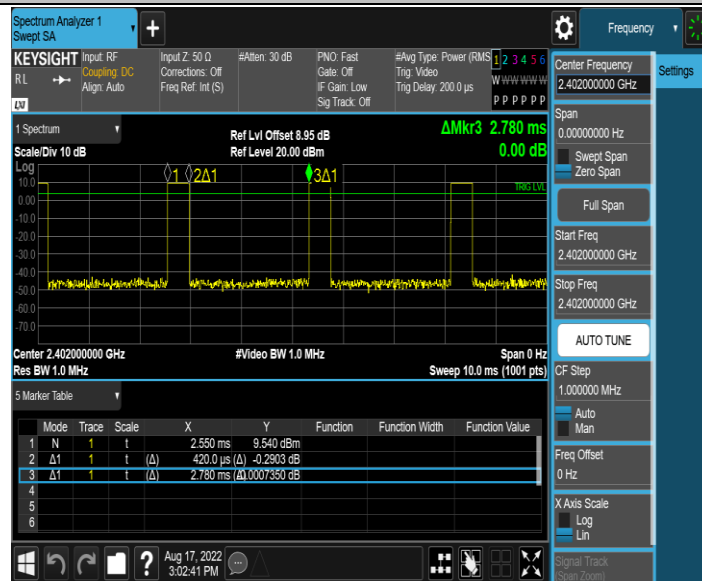
Appendix G: Duty Cycle

Test Result

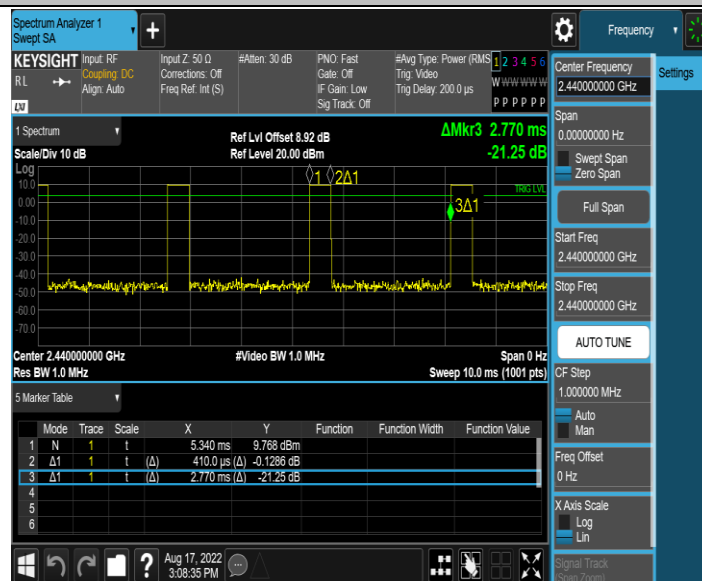
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.42	2.78	15.11	8.21
		2440	0.41	2.77	14.80	8.30
		2480	0.41	2.77	14.80	8.30

Test Graphs

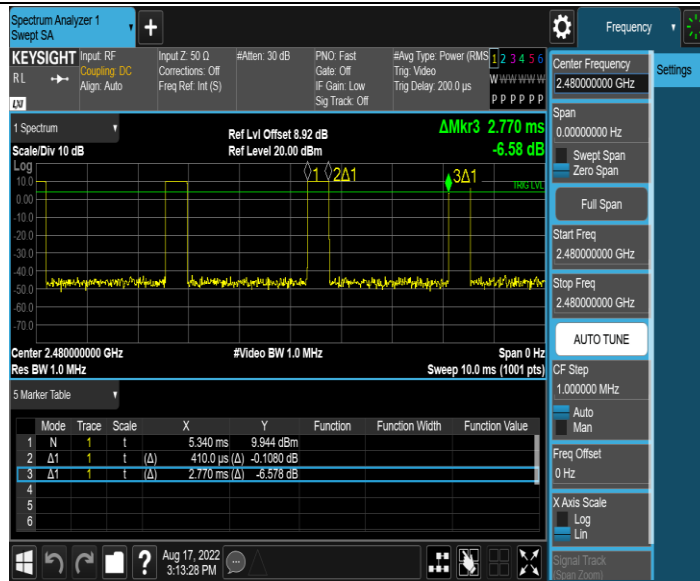
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Appendix H: Emissions in Restricted Bands

Test Result

Mode:	2402
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2310.00	63.53	43.74	-19.79	74.00	30.26	Horizontal	PASS
2	2320.17	65.87	46.10	-19.77	74.00	27.90	Horizontal	PASS
3	2337.38	64.38	44.64	-19.74	74.00	29.36	Horizontal	PASS
4	2345.07	64.51	44.78	-19.73	74.00	29.22	Horizontal	PASS
5	2358.28	65.22	45.94	-19.28	74.00	28.06	Horizontal	PASS
6	2368.05	64.46	45.71	-18.75	74.00	28.29	Horizontal	PASS
7	2390.00	63.21	45.64	-17.57	74.00	28.36	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2310.00	63.38	43.59	-19.79	74.00	30.41	Vertical	PASS
2	2324.33	65.09	45.32	-19.77	74.00	28.68	Vertical	PASS
3	2332.82	64.83	45.08	-19.75	74.00	28.92	Vertical	PASS
4	2347.71	64.55	44.83	-19.72	74.00	29.17	Vertical	PASS
5	2364.85	64.30	45.38	-18.92	74.00	28.62	Vertical	PASS
6	2390.00	63.85	46.28	-17.57	74.00	27.72	Vertical	PASS

Mode:	2480
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2483.50	64.40	46.38	-18.02	74.00	27.62	Horizontal	PASS
2	2484.57	64.32	46.02	-18.30	74.00	27.98	Horizontal	PASS
3	2488.59	64.84	46.03	-18.81	74.00	27.97	Horizontal	PASS
4	2494.68	64.61	45.68	-18.93	74.00	28.32	Horizontal	PASS
5	2496.48	64.49	45.59	-18.90	74.00	28.41	Horizontal	PASS
6	2500.00	63.08	44.23	-18.85	74.00	29.77	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Polarity	Verdict
1	2483.50	64.32	46.30	-18.02	74.00	27.70	Vertical	PASS
2	2488.21	65.06	46.29	-18.77	74.00	27.71	Vertical	PASS
3	2489.32	65.08	46.18	-18.90	74.00	27.82	Vertical	PASS
4	2492.72	65.09	46.14	-18.95	74.00	27.86	Vertical	PASS
5	2494.75	64.76	45.84	-18.92	74.00	28.16	Vertical	PASS
6	2500.00	63.52	44.67	-18.85	74.00	29.33	Vertical	PASS

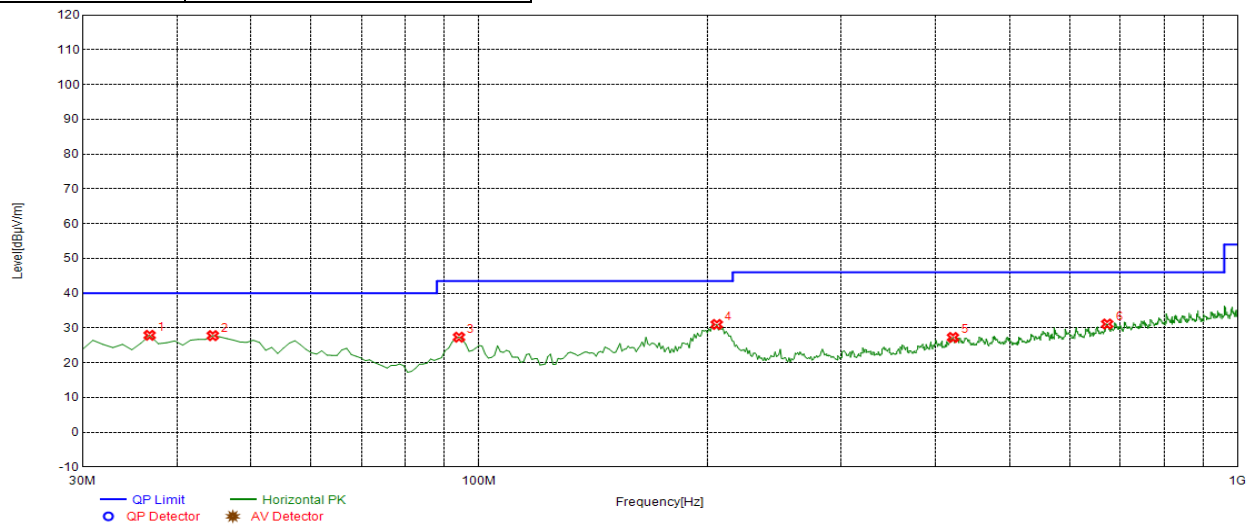
Note:

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

Appendix I: Spurious emissions

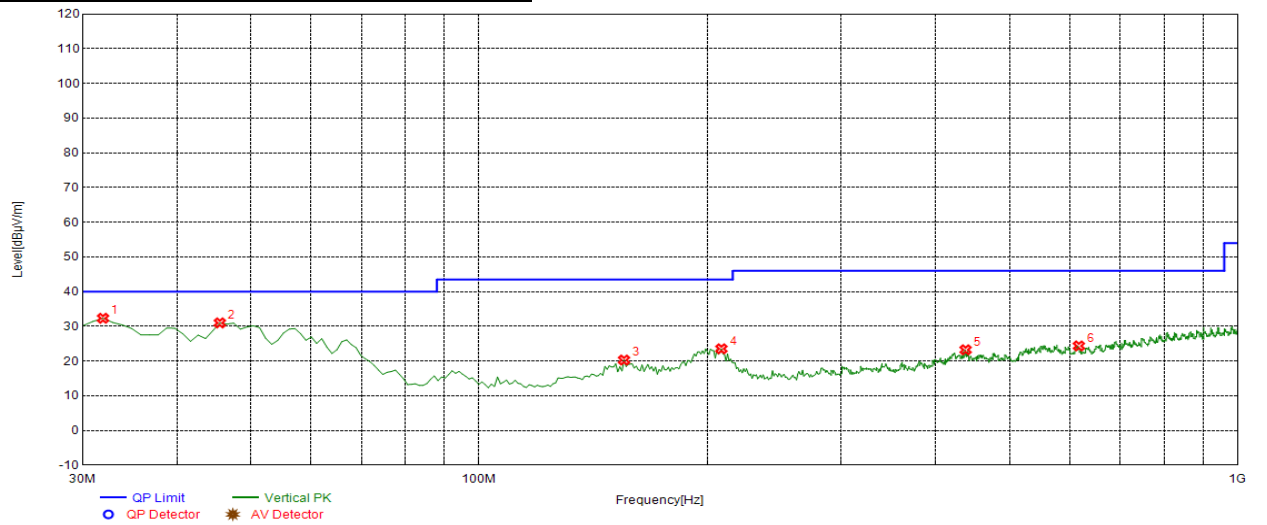
The worst case was recorded.

Mode:	2402
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBµV/m]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Verdict
1	36.7968	44.53	27.90	-16.63	40.00	12.10	Horizontal	PASS
2	44.5646	43.82	27.80	-16.02	40.00	12.20	Horizontal	PASS
3	94.0841	48.40	27.36	-21.04	43.50	16.14	Horizontal	PASS
4	205.745	50.06	31.02	-19.04	43.50	12.48	Horizontal	PASS
5	421.301	40.23	27.28	-12.95	46.00	18.72	Horizontal	PASS
6	672.782	39.29	31.15	-8.14	46.00	14.85	Horizontal	PASS

Mode:	2402
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PK Final Data List

NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	31.9419	49.51	32.35	-17.16	40.00	7.65	Vertical	PASS
2	45.5355	46.96	31.00	-15.96	40.00	9.00	Vertical	PASS
3	155.255	35.97	20.31	-15.66	43.50	23.19	Vertical	PASS
4	208.658	42.62	23.54	-19.08	43.50	19.96	Vertical	PASS
5	437.807	35.83	23.26	-12.57	46.00	22.74	Vertical	PASS
6	617.437	33.19	24.37	-8.82	46.00	21.63	Vertical	PASS

Mode:	2402
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	4803.79	65.35	48.88	-16.47	74.00	25.12	Horizontal	PASS
2	7207.19	69.28	56.53	-12.75	74.00	17.47	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	4803.79	65.05	48.58	-16.47	74.00	25.42	Vertical	PASS
2	7207.19	70.10	57.35	-12.75	74.00	16.65	Vertical	PASS
3	9610.59	64.65	54.82	-9.83	74.00	19.18	Vertical	PASS

Mode:	2440
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	4878.74	66.44	50.12	-16.32	74.00	23.88	Horizontal	PASS
2	7317.12	68.01	55.10	-12.91	74.00	18.90	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	4878.74	67.16	50.84	-16.32	74.00	23.16	Vertical	PASS
2	7322.11	68.67	55.79	-12.88	74.00	18.21	Vertical	PASS
3	9760.49	63.85	54.47	-9.38	74.00	19.53	Vertical	PASS

Mode:	2480
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PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	4958.69	66.93	50.57	-16.36	74.00	23.43	Horizontal	PASS
2	7442.03	67.52	54.79	-12.73	74.00	19.21	Horizontal	PASS

PK Final Data List								
NO.	Freq. [MHz]	PK Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	4958.69	67.07	50.71	-16.36	74.00	23.29	Vertical	PASS
2	7442.03	66.29	53.56	-12.73	74.00	20.44	Vertical	PASS