

Appendix A: DTS Bandwidth

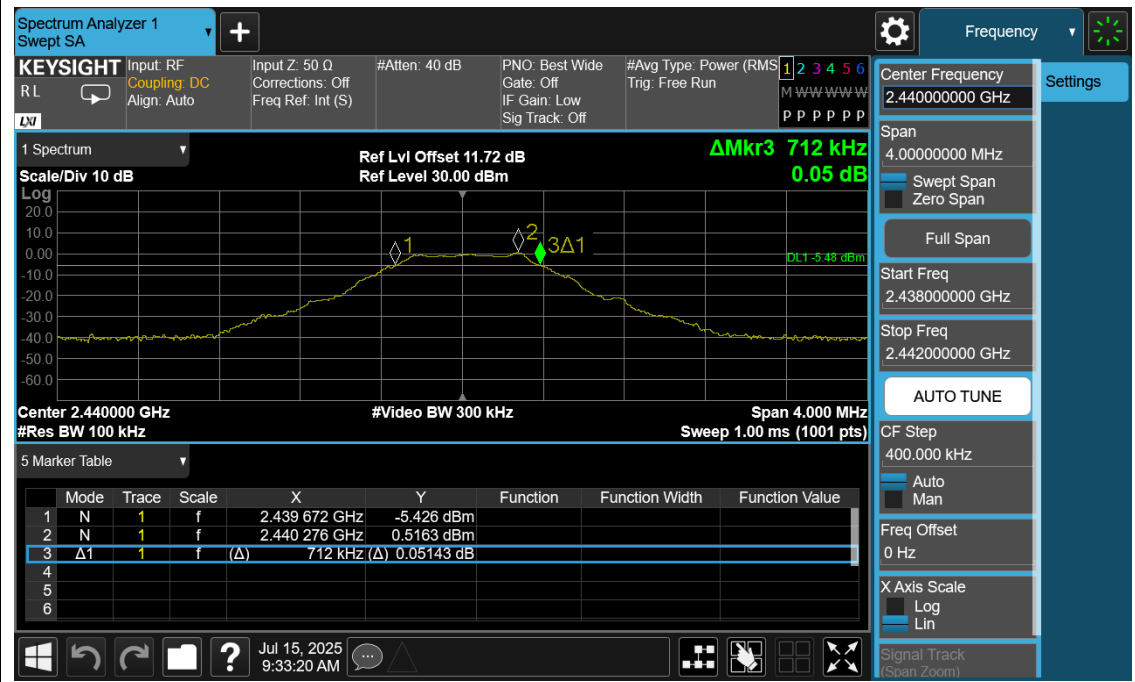
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.744	2401.644	2402.388	0.5	PASS
		2440	0.712	2439.672	2440.384	0.5	PASS
		2480	0.728	2479.656	2480.384	0.5	PASS

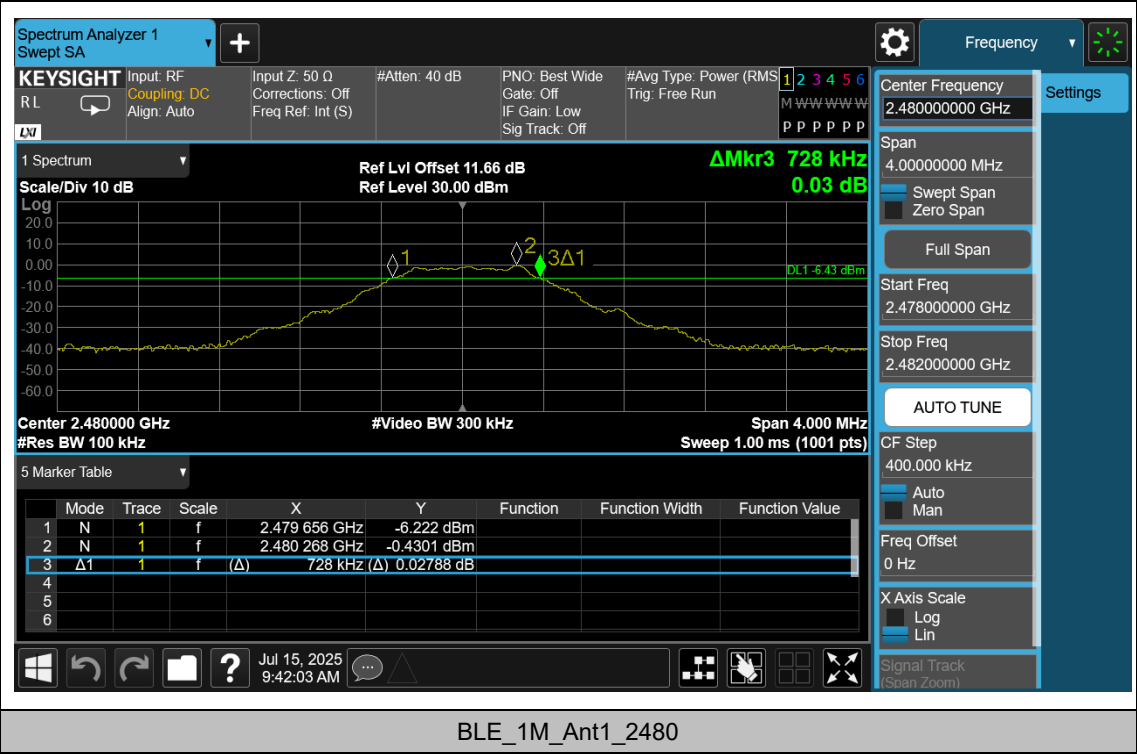
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

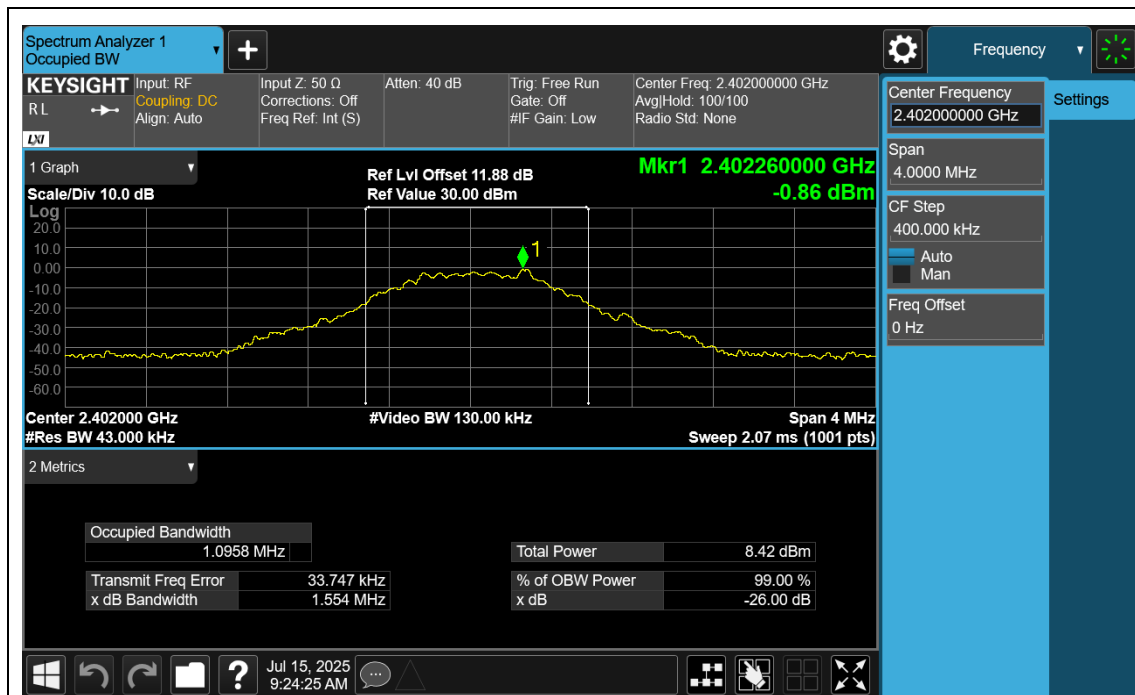


Appendix B: Occupied Channel Bandwidth

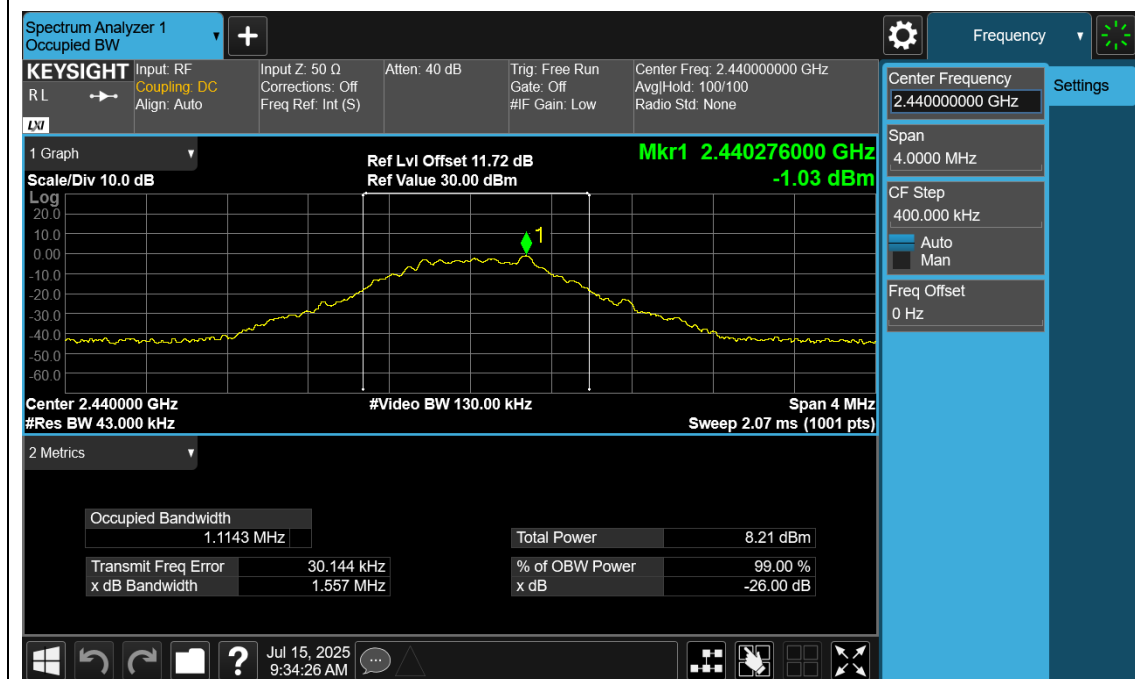
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0958	2401.4859	2402.5817	---	---
		2440	1.1143	2439.4730	2440.5873	---	---
		2480	1.1260	2479.4665	2480.5925	---	---

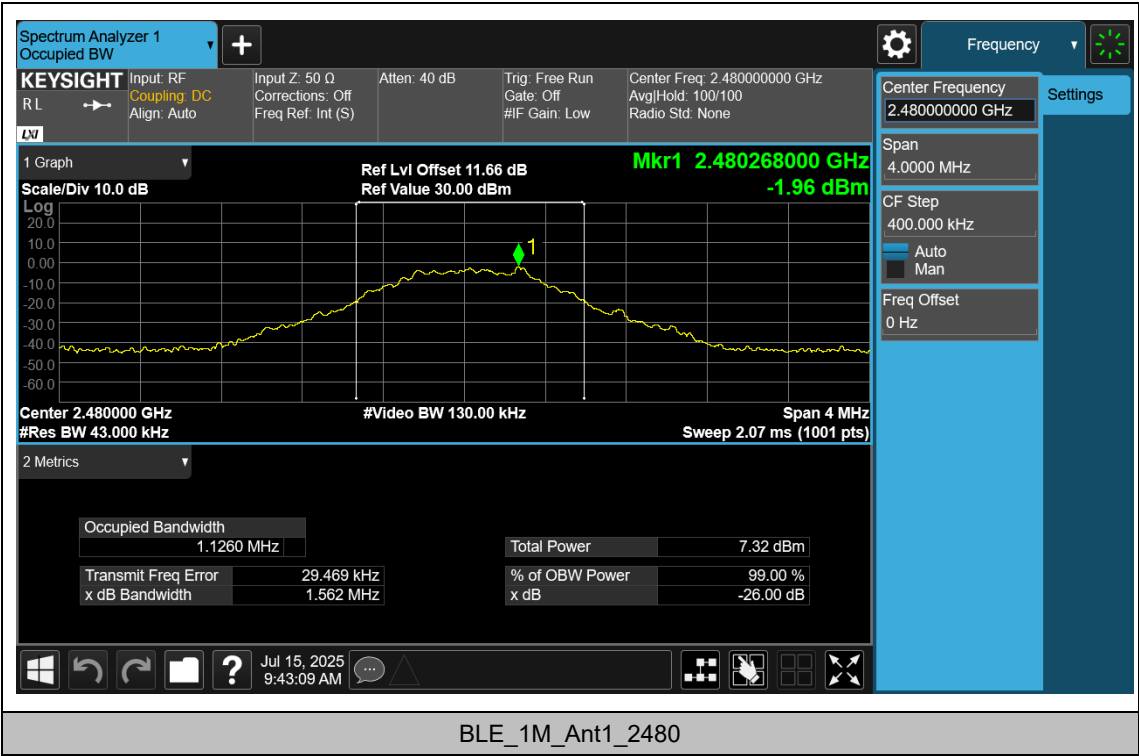
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

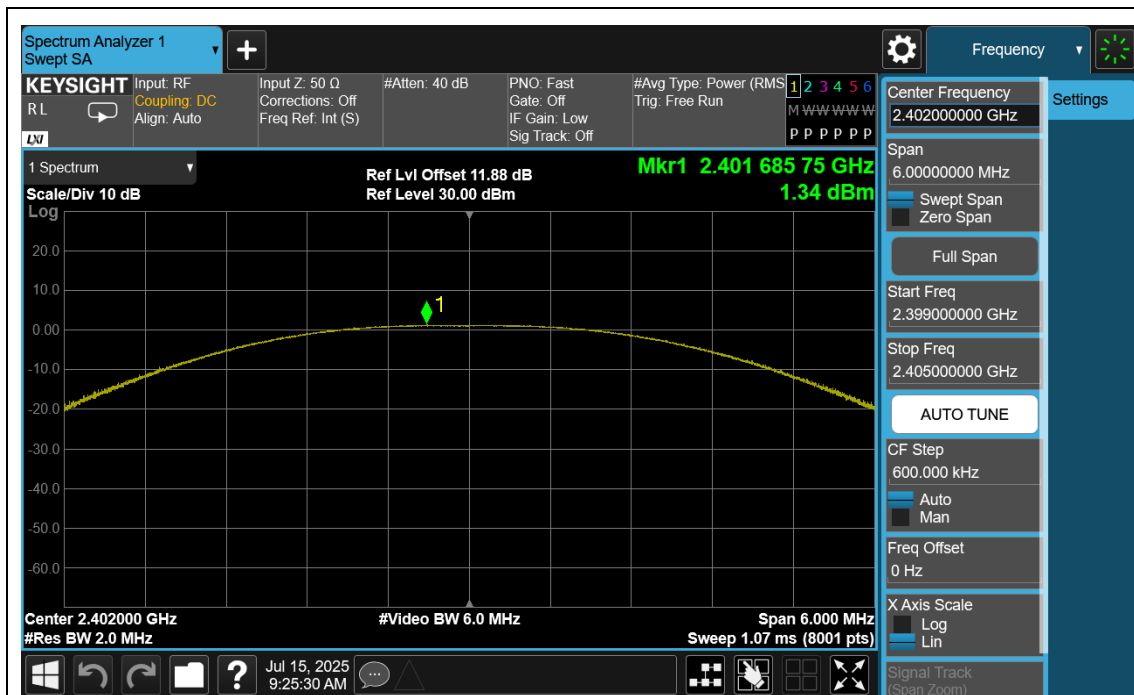


Appendix C: Maximum conducted output power

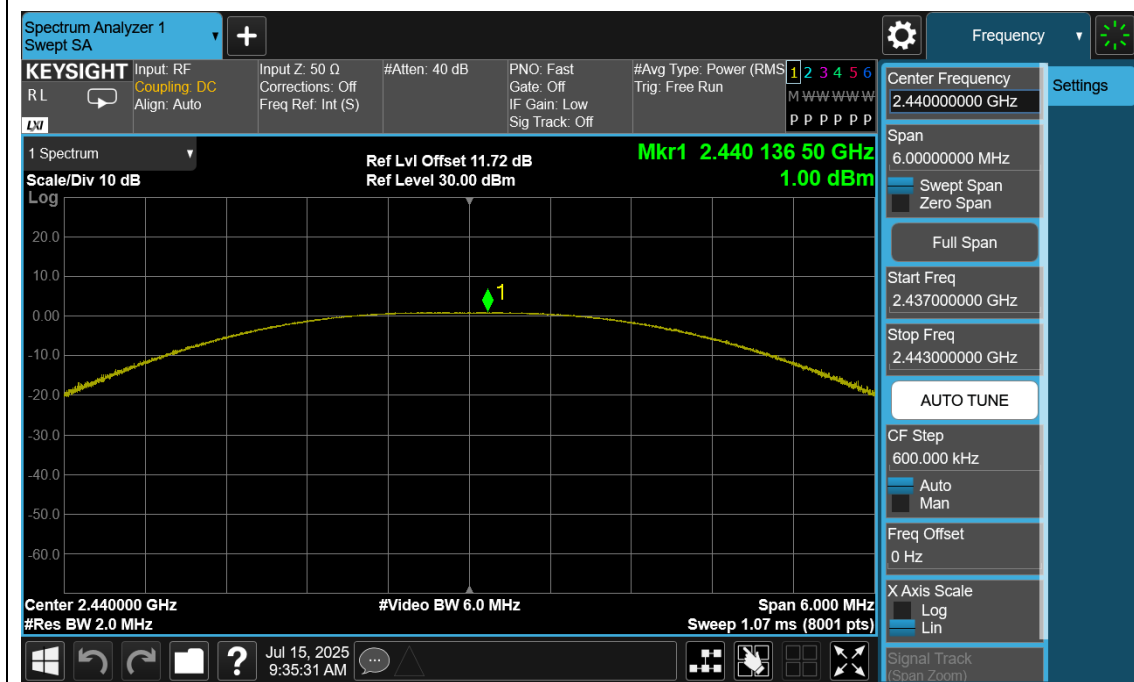
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.34	≤30	6.64	≤36	PASS
		2440	1.00	≤30	6.30	≤36	PASS
		2480	0.18	≤30	5.48	≤36	PASS

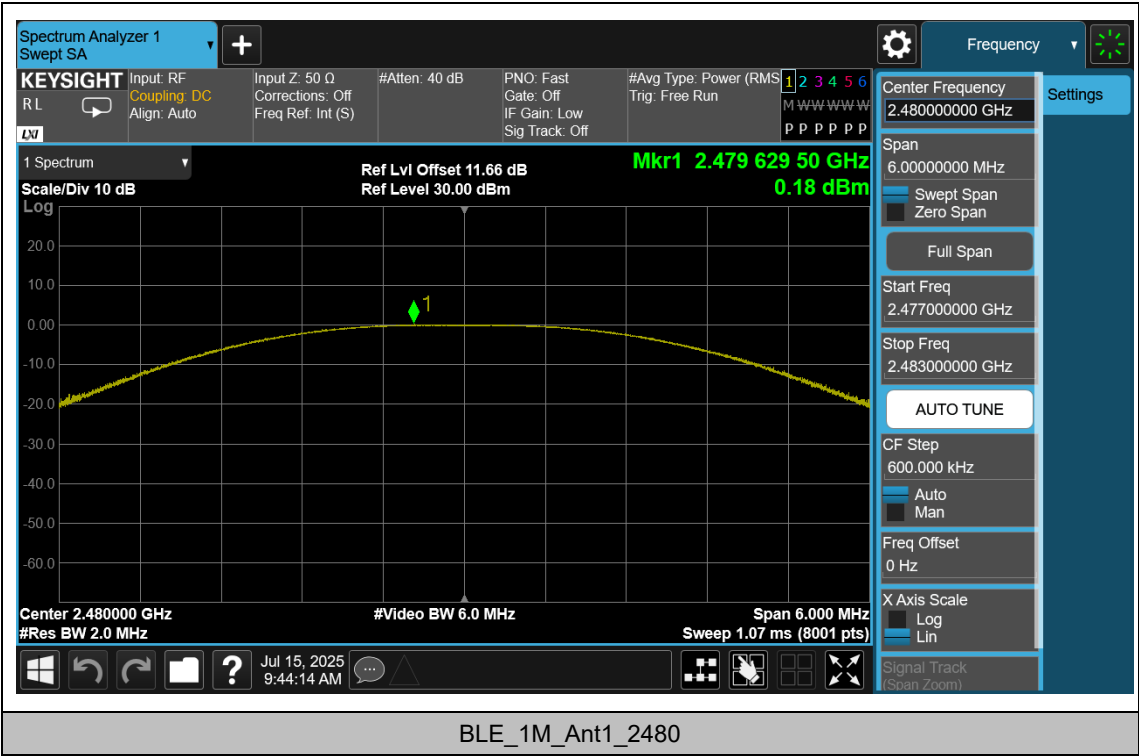
Test Graphs Peak



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

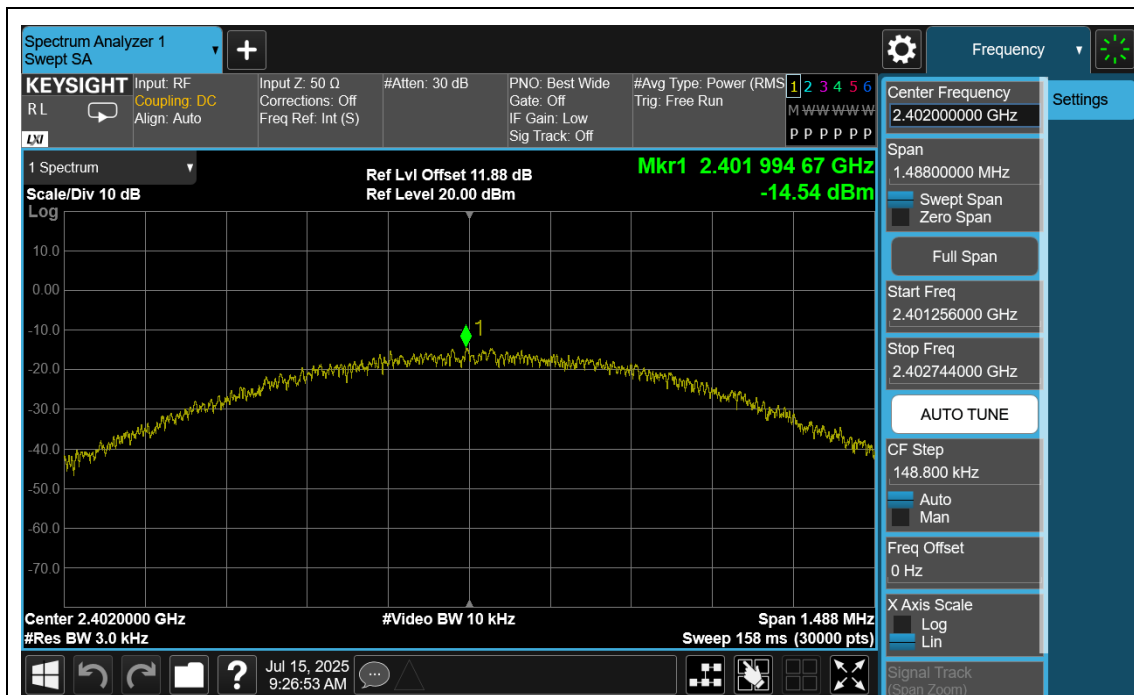


Appendix D: Maximum power spectral density

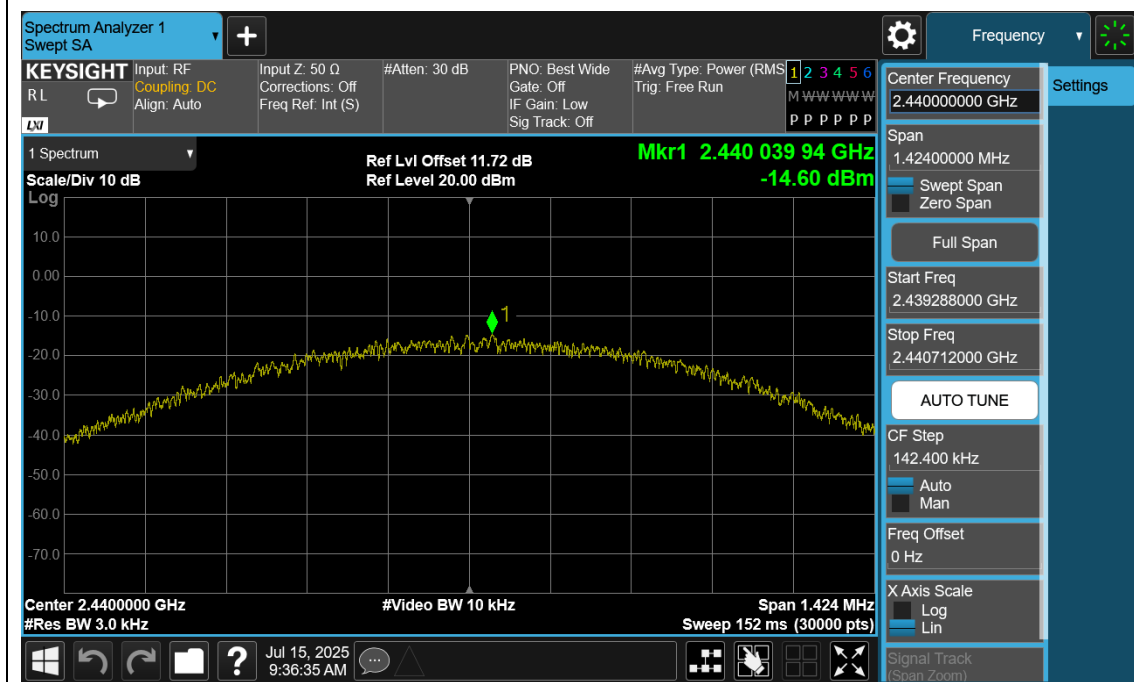
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.54	≤8.00	PASS
		2440	-14.60	≤8.00	PASS
		2480	-15.43	≤8.00	PASS

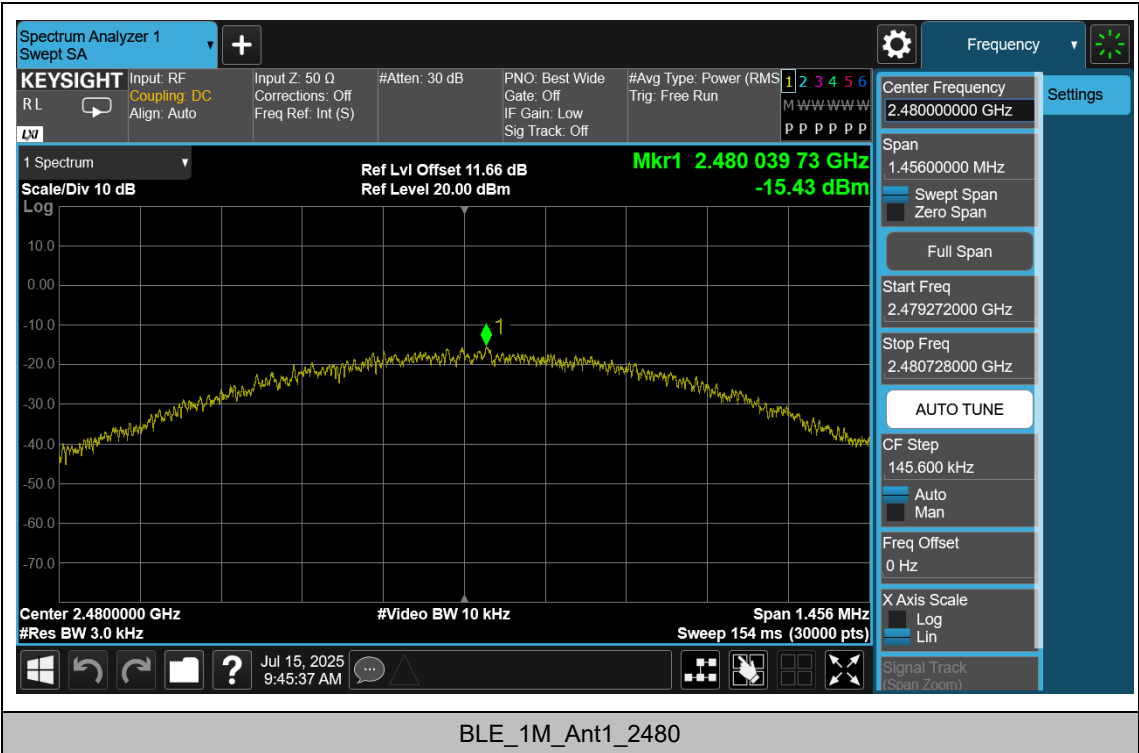
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

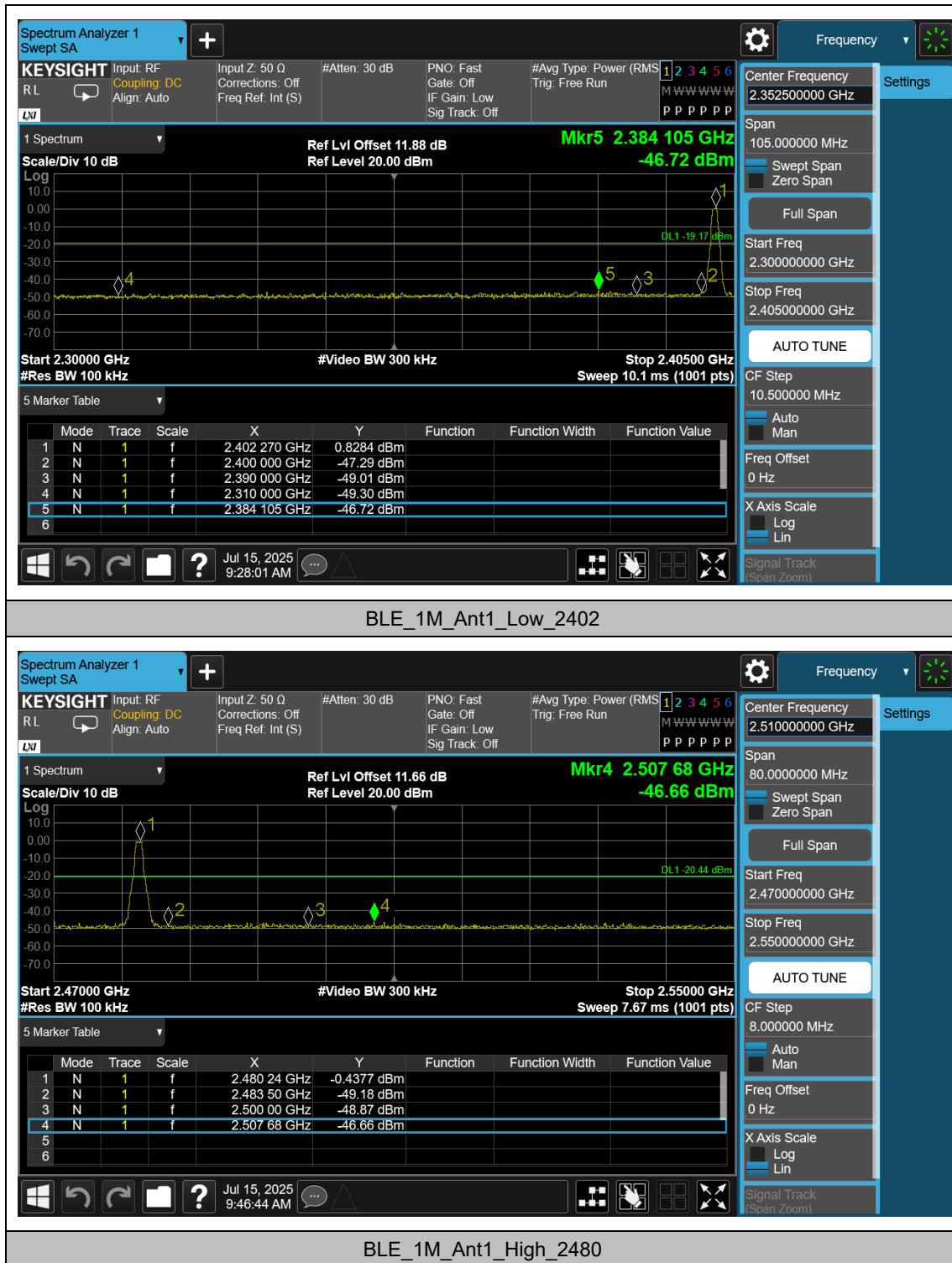


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.83	-46.72	≤-19.17	PASS
		High	2480	-0.44	-46.66	≤-20.44	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

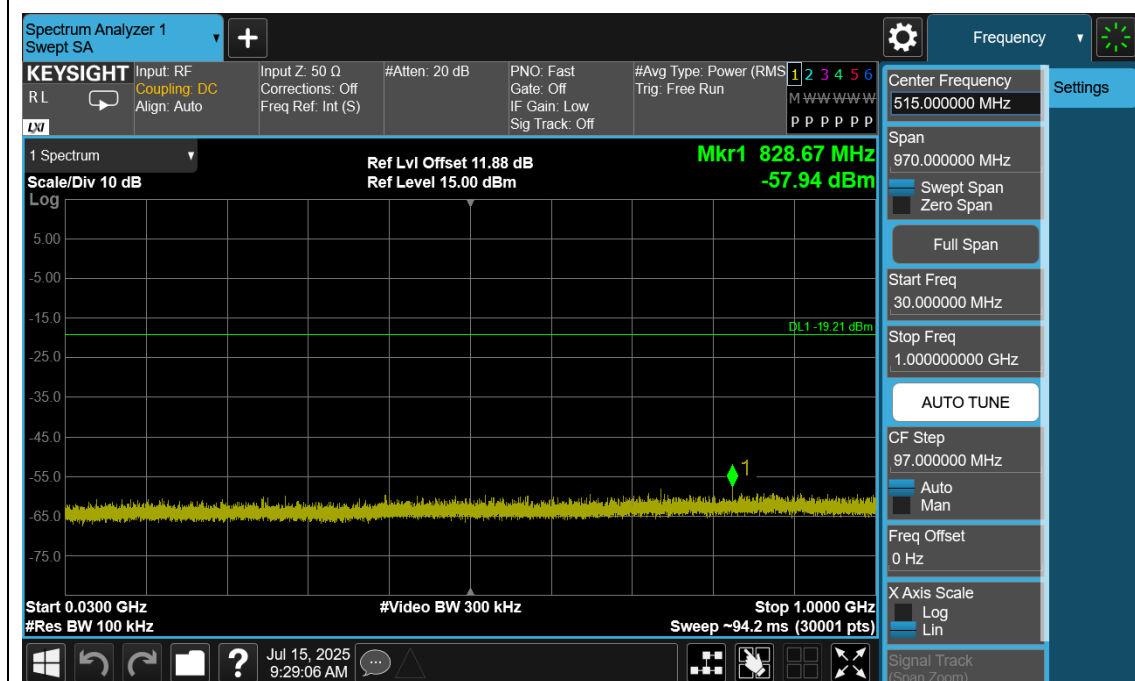
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.79	0.79	---	PASS
			30~1000	0.79	-57.94	≤-19.21	PASS
			1000~26500	0.79	-44.74	≤-19.21	PASS
		2440	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-58.33	≤-19.72	PASS
			1000~26500	0.28	-45.55	≤-19.72	PASS
		2480	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-58.63	≤-20.39	PASS
			1000~26500	-0.39	-49.05	≤-20.39	PASS

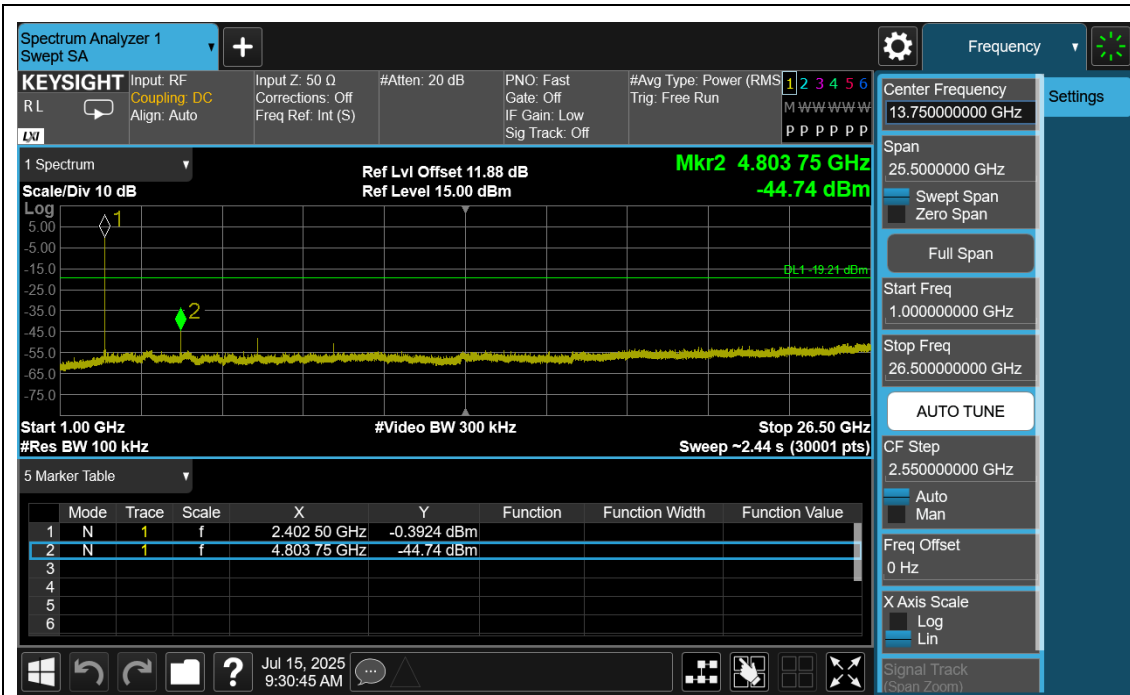
Test Graphs



BLE_1M_Ant1_2402_0~Reference



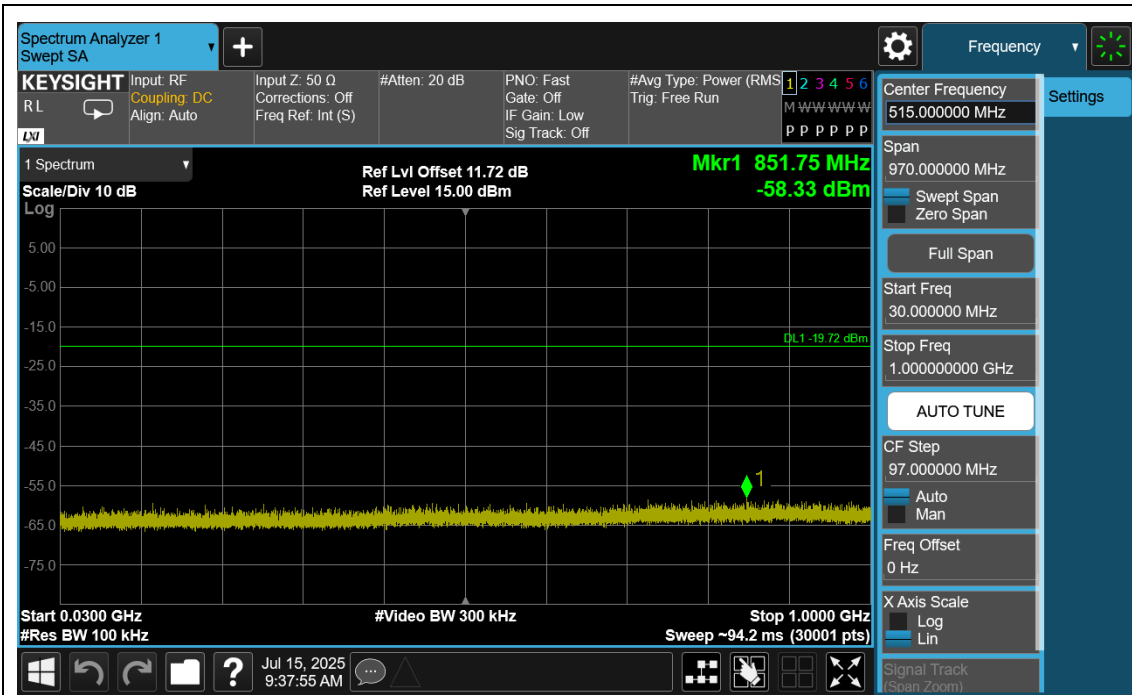
BLE_1M_Ant1_2402_30~1000



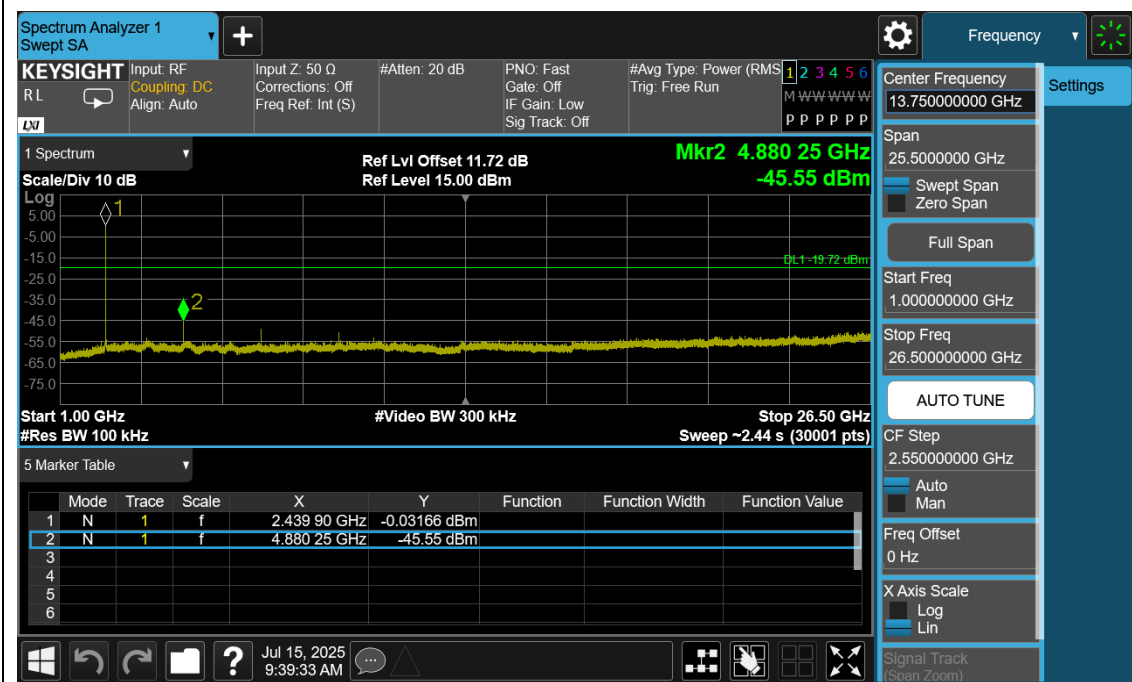
BLE_1M_Ant1_2402_1000~26500



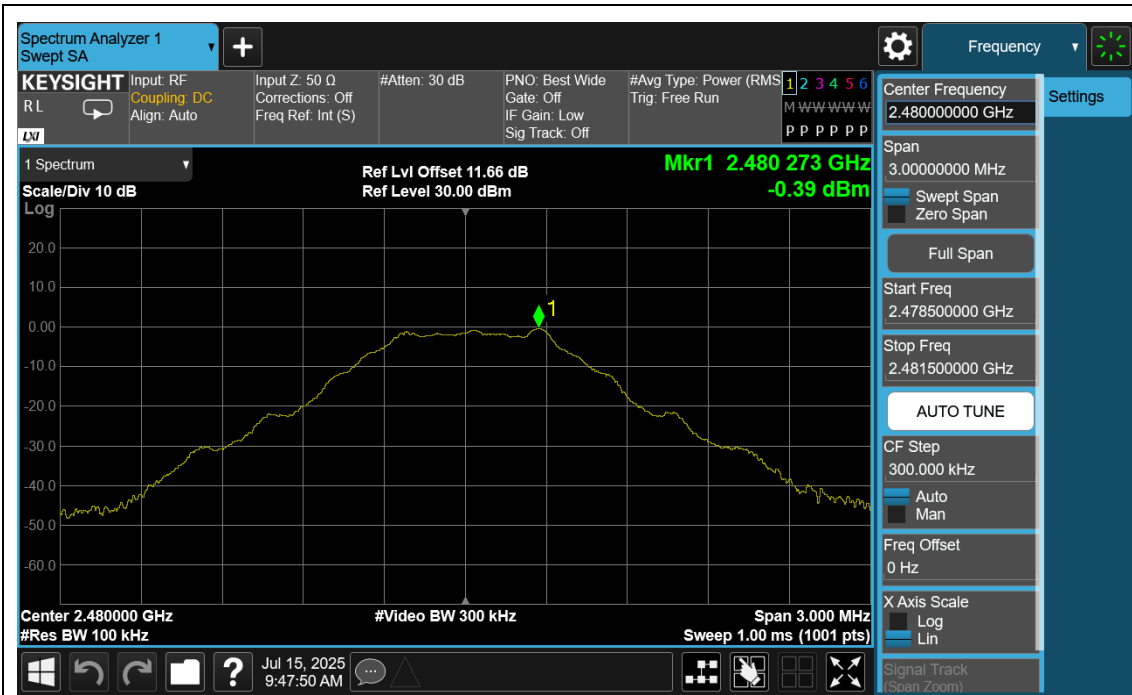
BLE_1M_Ant1_2440_0~Reference



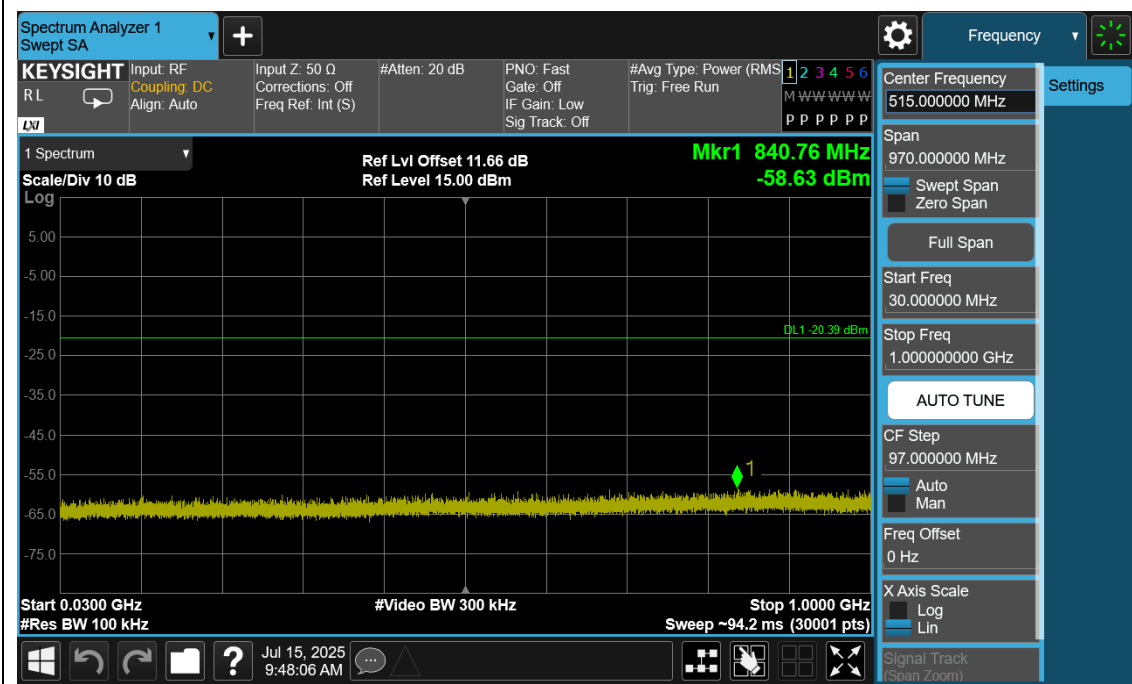
BLE_1M_Ant1_2440_30~1000



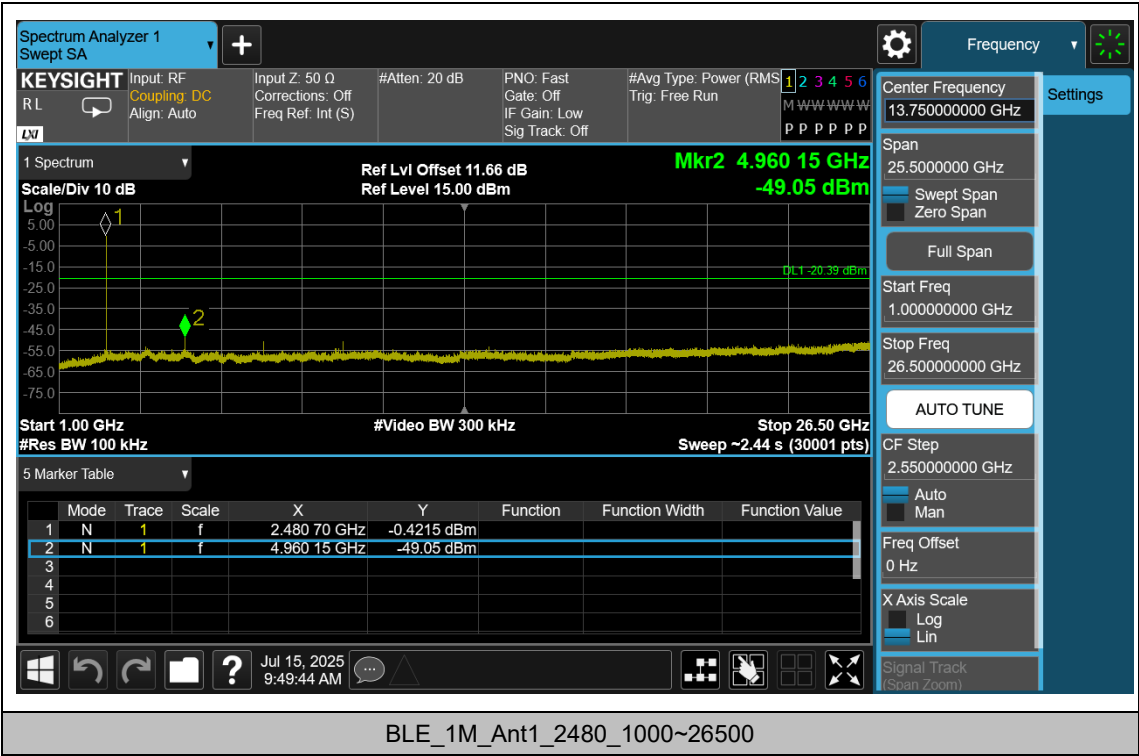
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

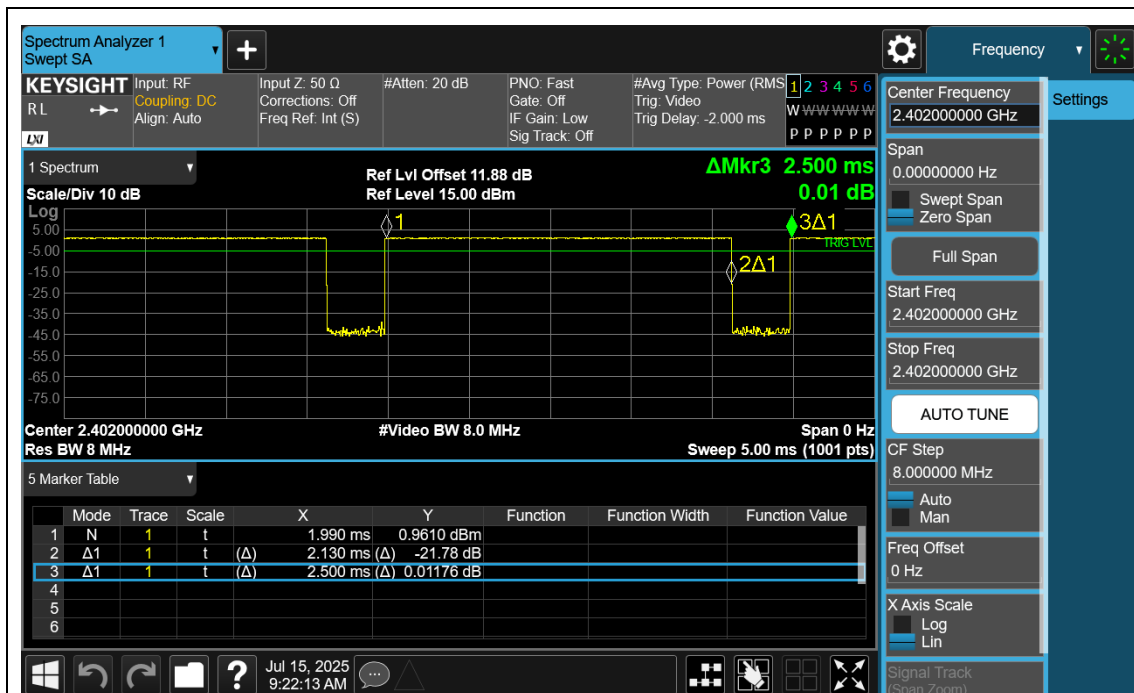


Appendix G: Duty Cycle

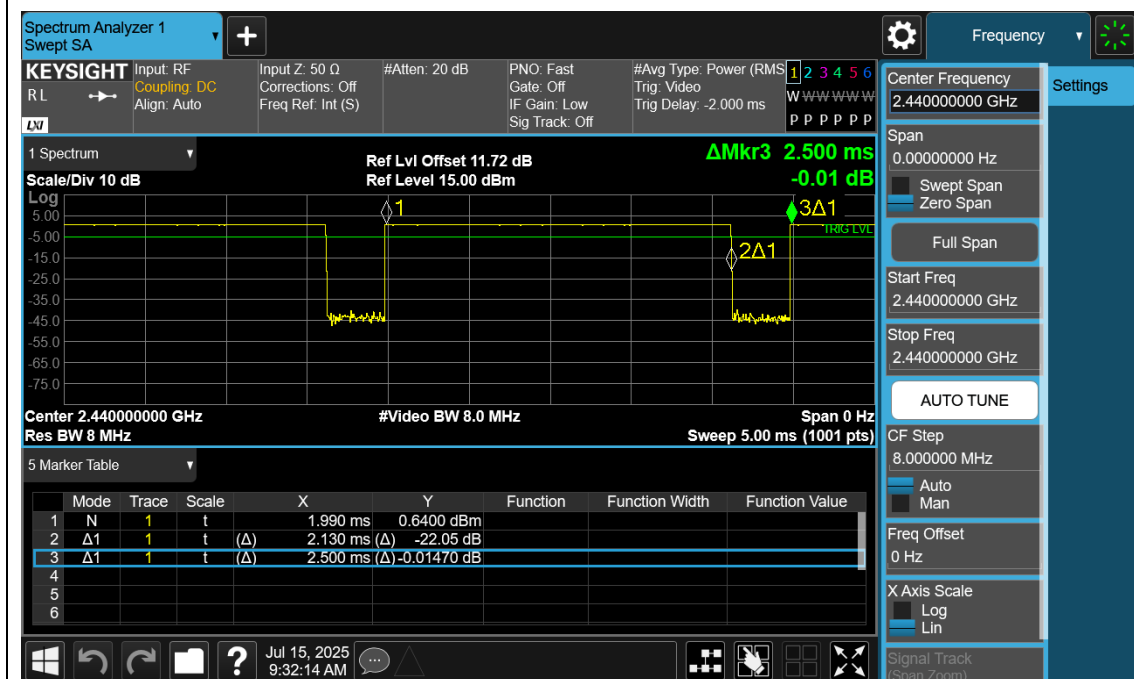
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	2.13	2.50	85.20
		2440	2.13	2.50	85.20
		2480	2.12	2.50	84.80

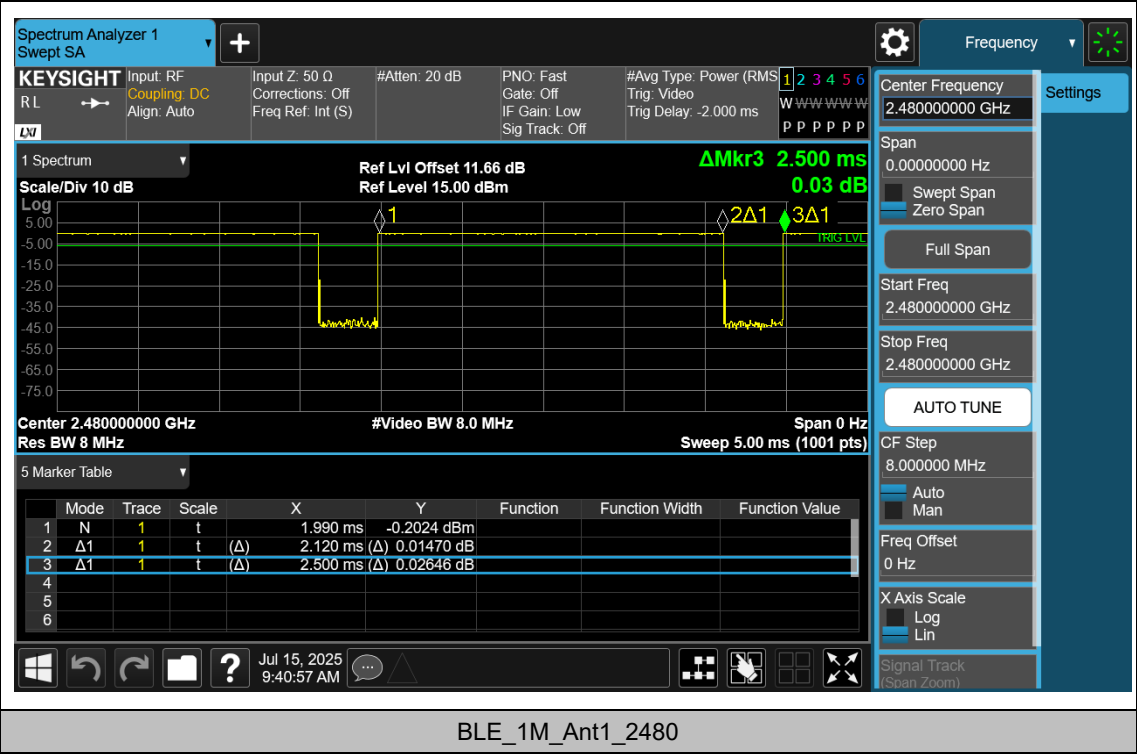
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



Appendix H: Emissions in Restricted Bands

Test Result

Mode:	1M-2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2323.12	50.02	9.17	74.00	23.98	150	282	Horizontal
2	2337.52	51.93	9.19	74.00	22.07	150	102	Horizontal
3	2354.16	51.45	9.27	74.00	22.55	150	225	Horizontal
4	2365.04	50.54	9.52	74.00	23.46	150	276	Horizontal
5	2380.24	51.98	9.89	74.00	22.02	150	204	Horizontal
6	2386.08	52.29	10.23	74.00	21.71	150	99	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2319.76	50.37	9.18	74.00	23.63	150	28	Vertical
2	2341.76	50.69	9.27	74.00	23.31	150	280	Vertical
3	2358.64	51.66	9.35	74.00	22.34	150	303	Vertical
4	2367.44	50.56	9.47	74.00	23.44	150	355	Vertical
5	2378	50.09	9.86	74.00	23.91	150	157	Vertical
6	2387.04	50.76	10.26	74.00	23.24	150	34	Vertical

Mode:	1M-2480
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NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.91	51.40	10.50	74.00	22.60	150	95	Horizontal
2	2488.31	51.69	10.22	74.00	22.31	150	142	Horizontal
3	2490.92	51.31	10.34	74.00	22.69	150	219	Horizontal
4	2493.63	51.65	10.47	74.00	22.35	150	198	Horizontal
5	2495.49	52.17	10.42	74.00	21.83	150	210	Horizontal
6	2498.33	52.31	10.20	74.00	21.69	150	132	Horizontal

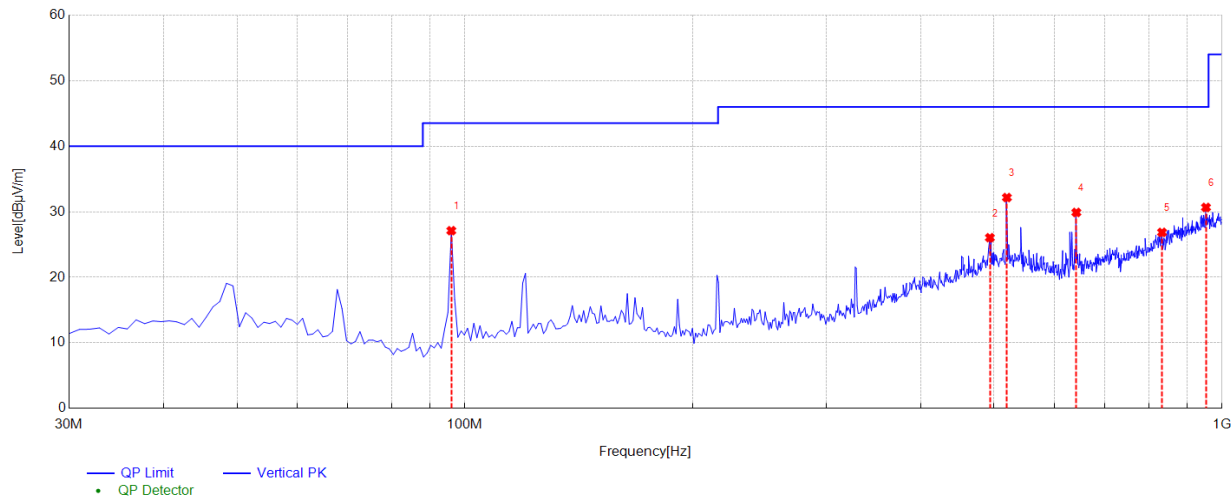
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.26	51.66	10.48	74.00	22.34	150	93	Vertical
2	2488.41	51.37	10.23	74.00	22.63	150	20	Vertical
3	2492.12	50.92	10.40	74.00	23.08	150	223	Vertical
4	2494.57	51.21	10.47	74.00	22.79	150	45	Vertical
5	2497.04	50.75	10.29	74.00	23.25	150	90	Vertical
6	2499.05	52.24	10.24	74.00	21.76	150	90	Vertical

Note:

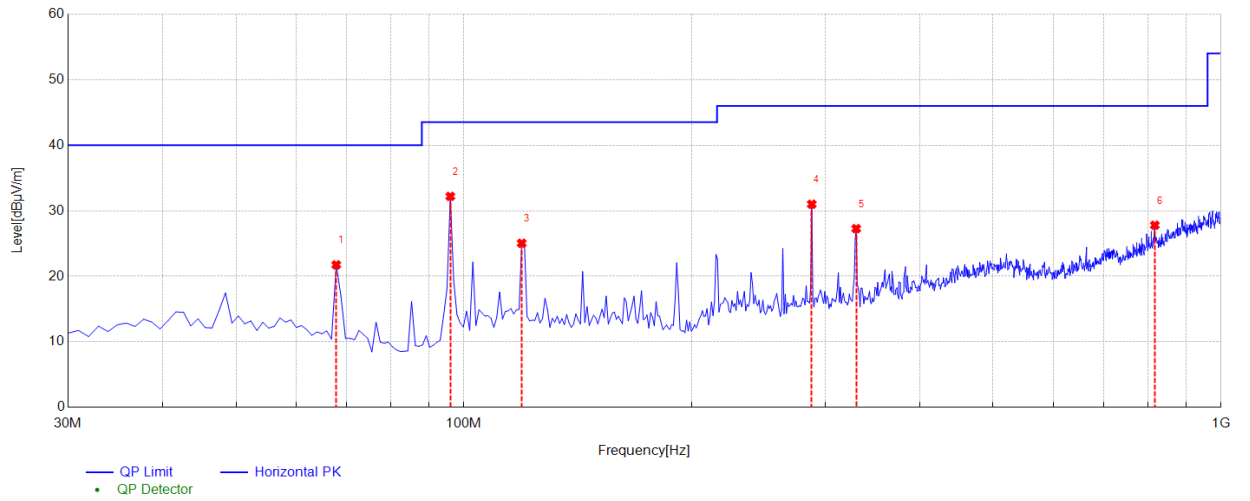
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dB μ V/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Appendix I: Spurious emissions

Test Result



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	95.9600	27.12	-19.81	43.50	16.38	100	124	Vertical	PASS
2	493.660	26.05	-11.06	46.00	19.95	100	168	Vertical	PASS
3	519.850	32.17	-10.45	46.00	13.83	100	213	Vertical	PASS
4	642.070	29.90	-8.06	46.00	16.10	100	213	Vertical	PASS
5	833.160	26.86	-4.24	46.00	19.14	100	13	Vertical	PASS
6	952.470	30.67	-1.37	46.00	15.33	100	301	Vertical	PASS



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	67.8300	21.76	-18.10	40.00	18.24	100	164	Horizontal	PASS
2	95.9600	32.20	-19.81	43.50	11.30	100	162	Horizontal	PASS
3	119.240	25.05	-17.79	43.50	18.45	100	360	Horizontal	PASS
4	288.020	31.00	-16.01	46.00	15.00	100	250	Horizontal	PASS
5	329.730	27.28	-15.31	46.00	18.72	100	245	Horizontal	PASS
6	817.640	27.80	-4.43	46.00	18.20	100	314	Horizontal	PASS

Mode:	BLE 1M-2402
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1340	42.70	1.10	74.00	31.30	150	356	Horizontal
2	3678	41.91	-17.69	74.00	32.09	150	351	Horizontal
3	4905	43.52	-14.35	74.00	30.48	150	191	Horizontal
4	7206	50.34	-12.26	74.00	23.66	150	234	Horizontal
5	9609	48.94	-8.59	74.00	25.06	150	254	Horizontal
6	14253	48.73	-1.16	74.00	25.27	150	315	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1282	41.94	1.13	74.00	32.06	150	89	Vertical
2	1816	43.99	4.38	74.00	30.01	150	6	Vertical
3	3942	42.92	-17.22	74.00	31.08	150	94	Vertical
4	7206	47.73	-12.26	74.00	26.27	150	310	Vertical
5	9609	49.74	-8.59	74.00	24.26	150	325	Vertical
6	14769	50.28	-1.60	74.00	23.72	150	74	Vertical

Mode:	BLE 1M-2440
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1350	41.47	1.07	74.00	32.53	150	131	Horizontal
2	1726	43.60	3.40	74.00	30.40	150	186	Horizontal
3	4284	43.01	-16.38	74.00	30.99	150	163	Horizontal
4	7320	52.42	-11.84	74.00	21.58	150	229	Horizontal
5	9762	49.66	-7.91	74.00	24.34	150	238	Horizontal
6	13848	49.24	-2.44	74.00	24.76	150	85	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1338	42.73	1.10	74.00	31.27	150	246	Vertical
2	1900	45.55	5.27	74.00	28.45	150	46	Vertical
3	5256	46.24	-14.16	74.00	27.76	150	138	Vertical
4	7320	47.79	-11.84	74.00	26.21	150	306	Vertical
5	9759	51.72	-7.90	74.00	22.28	150	297	Vertical
6	14181	48.65	-2.28	74.00	25.35	150	150	Vertical

Mode:	BLE 1M-2480
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1374	41.85	1.16	74.00	32.15	150	253	Horizontal
2	1912	44.86	5.33	74.00	29.14	150	99	Horizontal
3	4509	42.72	-15.89	74.00	31.28	150	345	Horizontal
4	6246	43.58	-12.40	74.00	30.42	150	345	Horizontal
5	8763	45.09	-9.72	74.00	28.91	150	4	Horizontal
6	15366	49.81	-0.28	74.00	24.19	150	358	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1282	41.59	1.13	74.00	32.41	150	256	Vertical
2	1900	45.08	5.27	74.00	28.92	150	60	Vertical
3	4275	41.29	-16.46	74.00	32.71	150	333	Vertical
4	7755	43.97	-11.55	74.00	30.03	150	126	Vertical
5	10602	46.92	-6.89	74.00	27.08	150	100	Vertical
6	15150	49.14	-0.55	74.00	24.86	150	71	Vertical