

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.668	2402.384	0.5	PASS
BLE_1M	Ant1	2440	0.740	2439.656	2440.396	0.5	PASS
BLE_1M	Ant1	2480	0.736	2479.660	2480.396	0.5	PASS

Test Graphs



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1209	2401.4724	2402.5933	---	---
BLE_1M	Ant1	2440	1.1878	2439.4449	2440.6327	---	---
BLE_1M	Ant1	2480	1.1954	2479.4303	2480.6257	---	---

Test Graphs

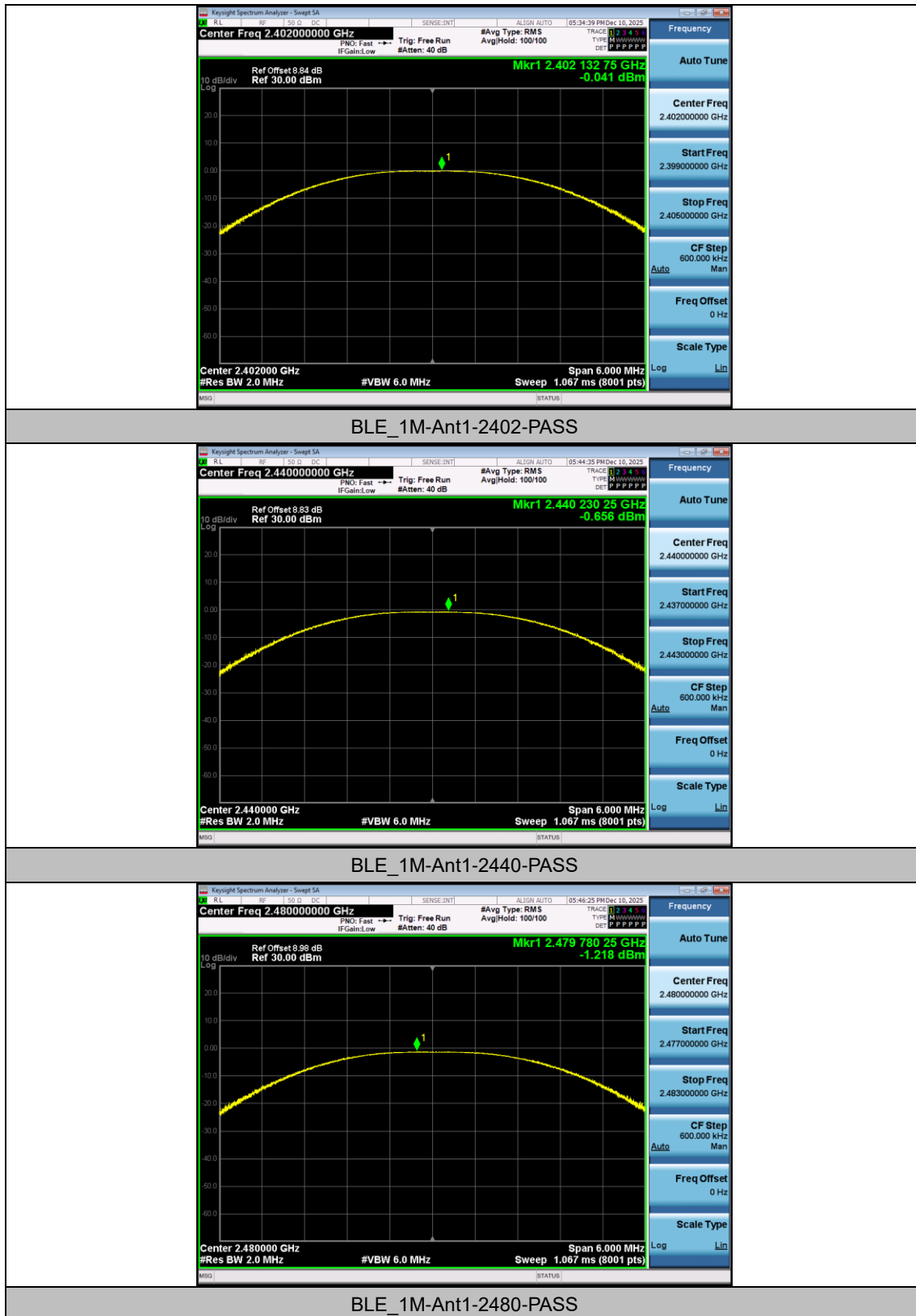


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.04	≤30	1.66	≤36	PASS
BLE_1M	Ant1	2440	-0.66	≤30	1.04	≤36	PASS
BLE_1M	Ant1	2480	-1.22	≤30	0.48	≤36	PASS

Test Graphs Peak

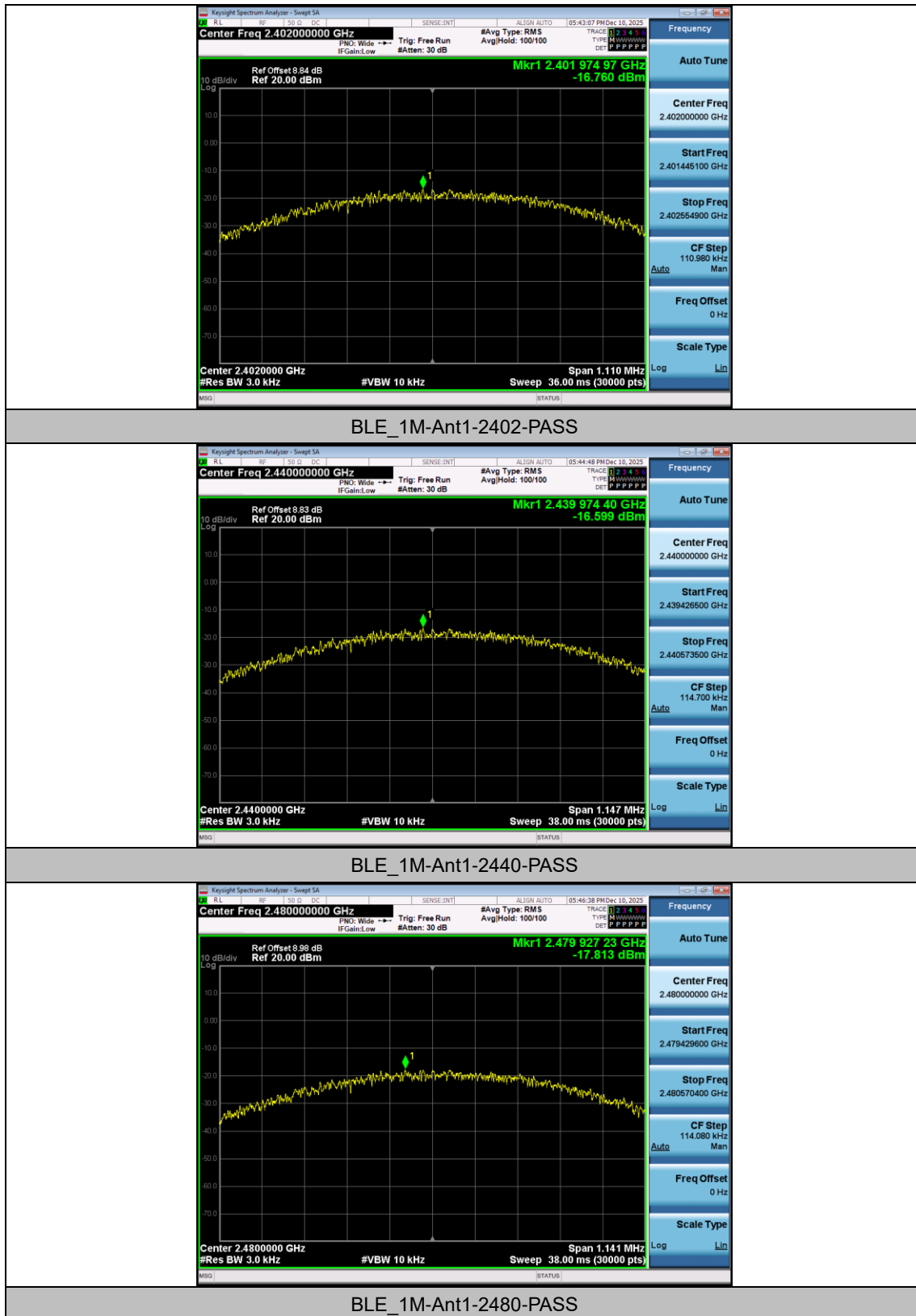


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.76	≤8.00	PASS
BLE_1M	Ant1	2440	-16.60	≤8.00	PASS
BLE_1M	Ant1	2480	-17.81	≤8.00	PASS

Test Graphs

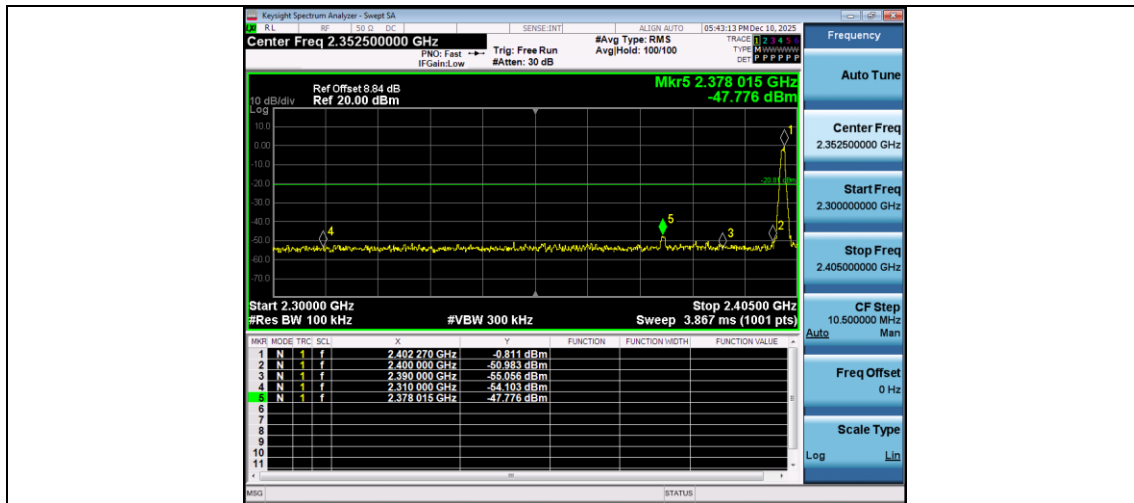


Appendix E: Band edge measurements

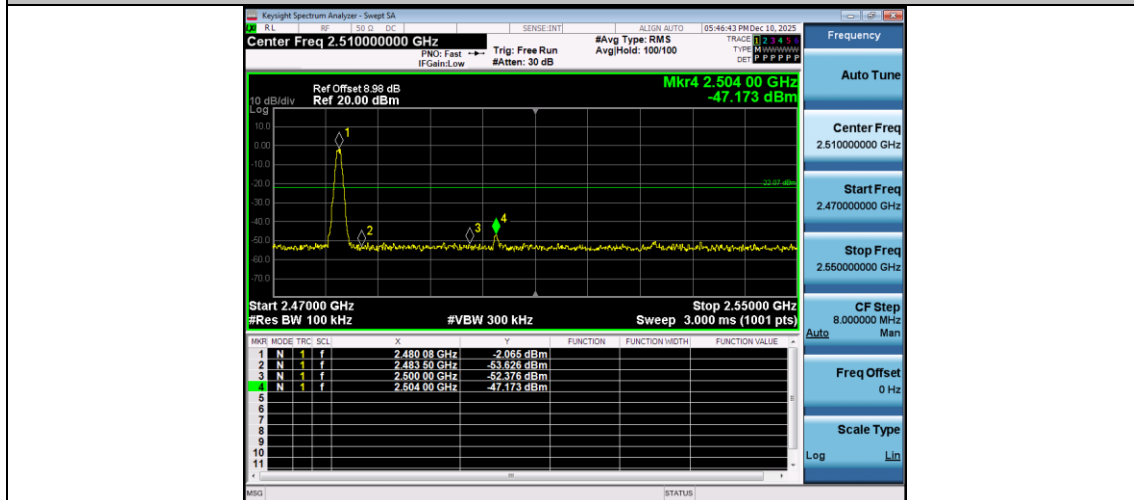
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.81	-47.78	≤-20.81	PASS
BLE_1M	Ant1	High	2480	-2.07	-47.17	≤-22.07	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS



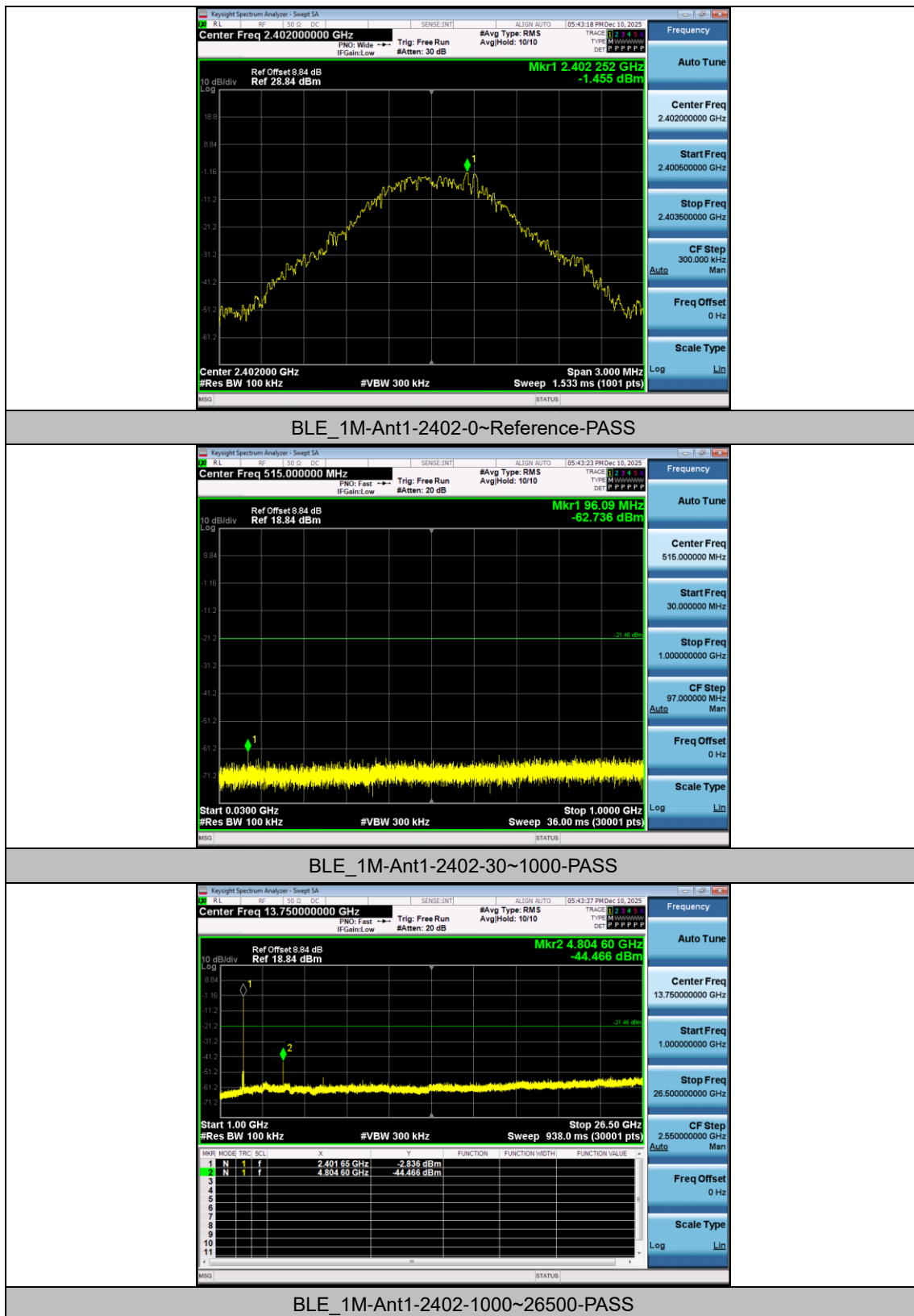
BLE_1M-Ant1-2480-PASS

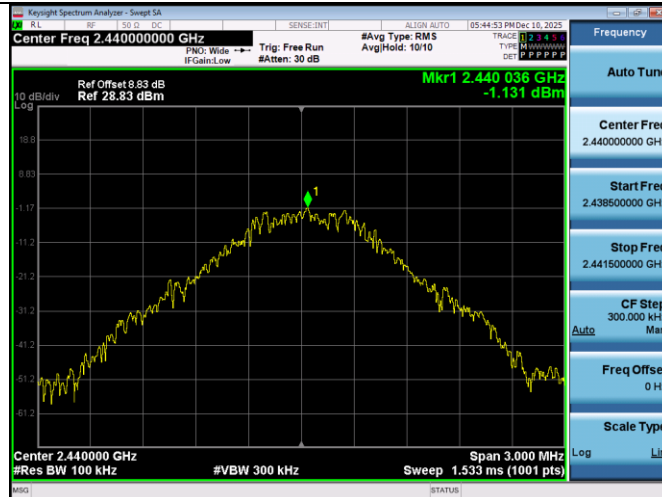
Appendix G: Conducted Spurious Emission

Test Result

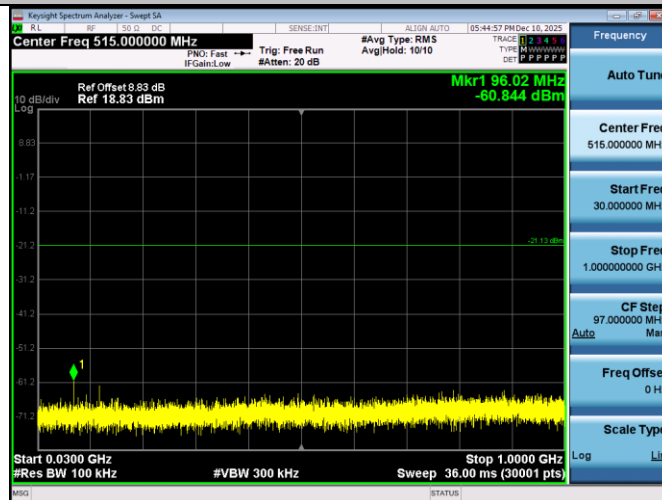
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.46	-1.46	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.46	-62.74	≤-21.46	PASS
BLE_1M	Ant1	2402	1000~26500	-1.46	-44.47	≤-21.46	PASS
BLE_1M	Ant1	2440	0~Reference	-1.13	-1.13	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.13	-60.84	≤-21.13	PASS
BLE_1M	Ant1	2440	1000~26500	-1.13	-43.11	≤-21.13	PASS
BLE_1M	Ant1	2480	0~Reference	-2.48	-2.48	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.48	-62.04	≤-22.48	PASS
BLE_1M	Ant1	2480	1000~26500	-2.48	-41.78	≤-22.48	PASS

Test Graphs

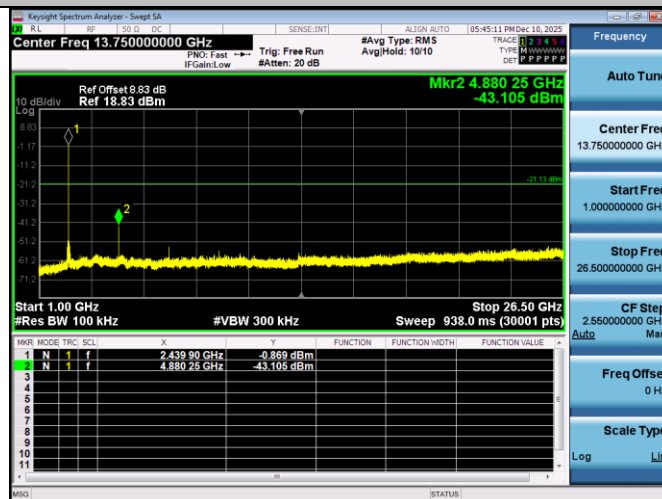




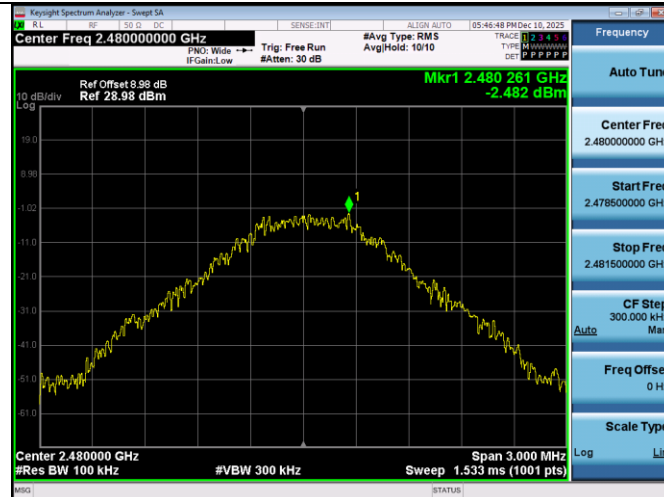
BLE_1M-Ant1-2440-0~Reference-PASS



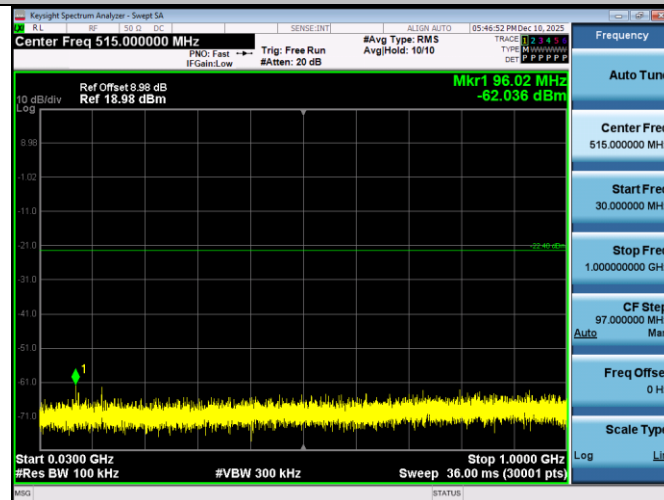
BLE_1M-Ant1-2440-30~1000-PASS



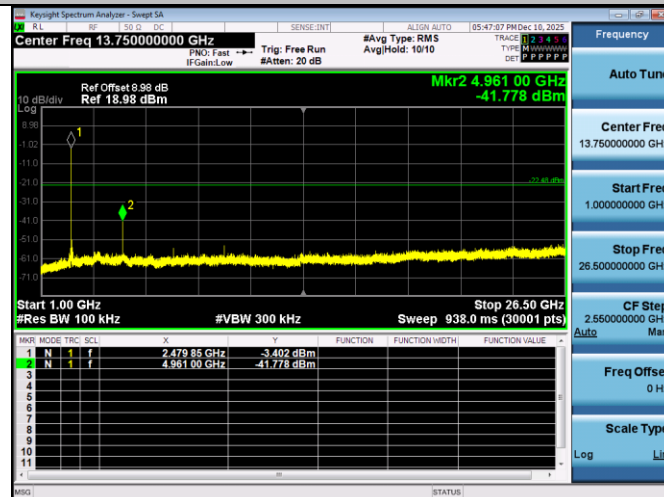
BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



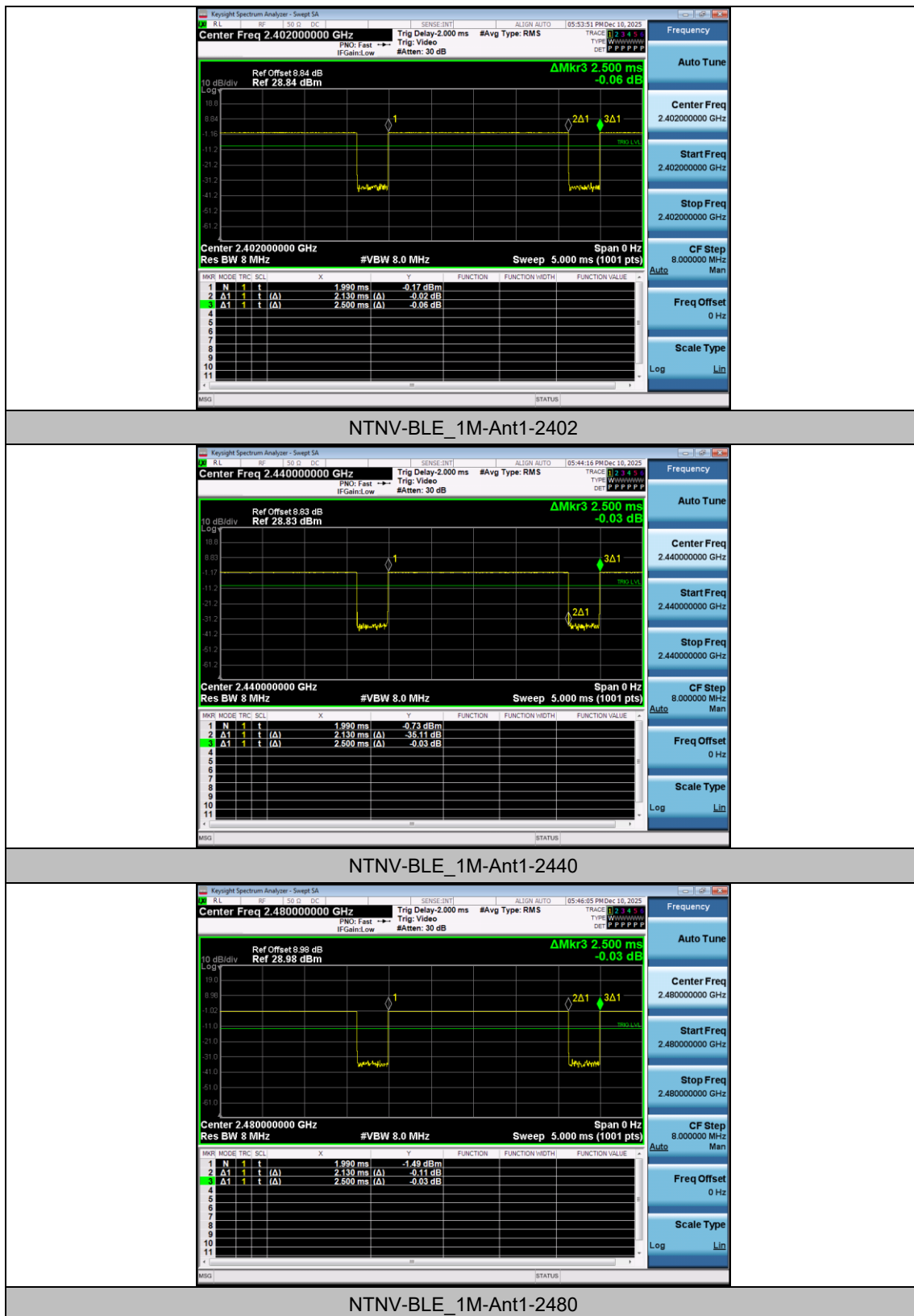
BLE_1M-Ant1-2480-1000~26500-PASS

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
BLE_1M	Ant1	2440	2.13	2.50	85.20
BLE_1M	Ant1	2480	2.13	2.50	85.20

Test Graphs



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	Verdict
1	2310	47.22	6.96	74.00	26.78	150	317	Vertical	PASS
2	2319.2	48.54	7.16	74.00	25.46	150	308	Vertical	PASS
3	2334.48	48.44	7.10	74.00	25.56	150	98	Vertical	PASS
4	2364.88	50.46	7.54	74.00	23.54	150	181	Vertical	PASS
5	2368.8	50.47	7.51	74.00	23.53	150	181	Vertical	PASS
6	2390	47.93	8.28	74.00	26.07	150	286	Vertical	PASS

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	48.02	6.96	74.00	25.98	150	169	Horizontal	PASS
2	2326.96	49.05	7.15	74.00	24.95	150	94	Horizontal	PASS
3	2335.44	48.40	7.10	74.00	25.60	150	42	Horizontal	PASS
4	2355.28	49.17	7.36	74.00	24.83	150	99	Horizontal	PASS
5	2373.92	48.95	7.80	74.00	25.05	150	326	Horizontal	PASS
6	2390	49.10	8.28	74.00	24.90	150	156	Horizontal	PASS

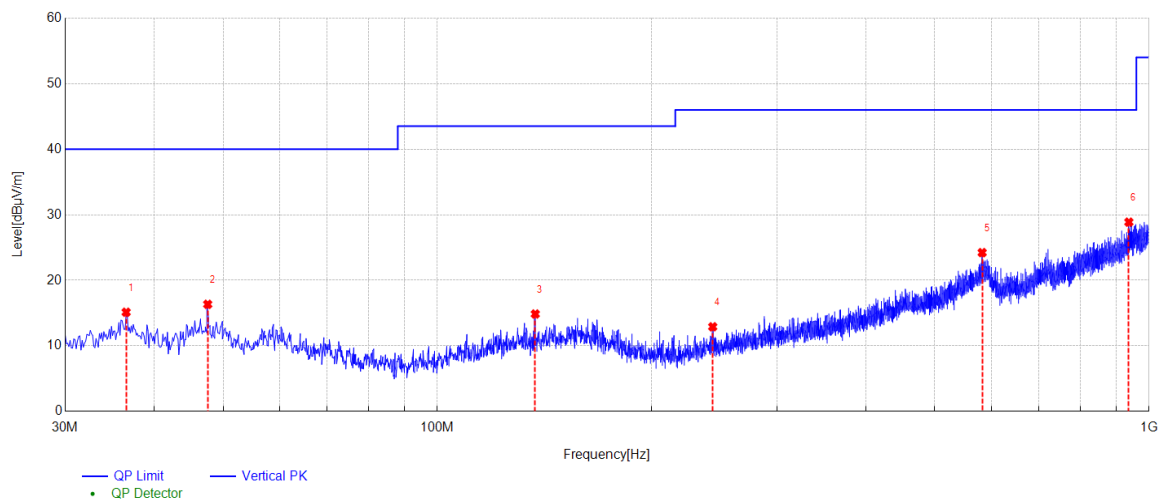
Mode:	1M-2480
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Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	7.53	55.55	74.00	18.45	47.74	54.00	6.26	150	108	Vertical	PASS
2	2485.8595	7.55	56.64	74.00	17.36	45.66	54.00	8.34	150	320	Vertical	PASS
3	2488.12	7.55	56.54	74.00	17.46	44.80	54.00	9.20	150	1	Vertical	PASS
4	2491.288	7.64	56.67	74.00	17.33	45.23	54.00	8.77	150	15	Vertical	PASS
5	2494.4725	7.67	56.78	74.00	17.22	42.24	54.00	11.76	150	284	Vertical	PASS
6	2500	7.60	55.69	74.00	18.31	41.96	54.00	12.04	150	313	Vertical	PASS

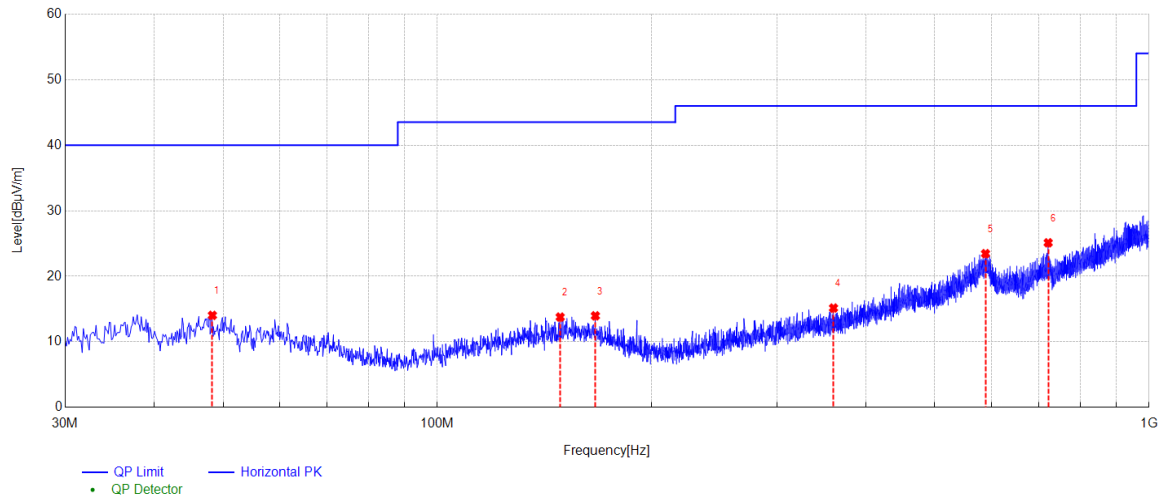
Final Data List												
NO.	Freq. [MHz]	Factor [dB/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	7.53	55.25	74.00	18.75	47.54	54.00	6.46	150	173	Horizontal	PASS
2	2485.414	7.58	56.30	74.00	17.70	47.91	54.00	6.09	150	347	Horizontal	PASS
3	2488.2025	7.56	56.59	74.00	17.41	46.54	54.00	7.46	150	195	Horizontal	PASS
4	2494.027	7.68	55.94	74.00	18.06	44.20	54.00	9.80	150	302	Horizontal	PASS
5	2495.908	7.65	56.90	74.00	17.10	44.15	54.00	9.85	150	252	Horizontal	PASS
6	2500	7.60	54.62	74.00	19.38	41.90	54.00	12.10	150	212	Horizontal	PASS

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	36.5475	15.14	-16.09	40.00	24.86	200	330	Vertical	PASS
2	47.5812	16.35	-16.04	40.00	23.65	200	250	Vertical	PASS
3	137.306	14.87	-16.66	43.50	28.63	200	150	Vertical	PASS
4	243.763	12.92	-18.09	46.00	33.08	100	20	Vertical	PASS
5	582.778	24.23	-9.05	46.00	21.77	200	120	Vertical	PASS
6	936.828	28.88	-1.72	46.00	17.12	100	190	Vertical	PASS



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	48.3088	14.05	-16.08	40.00	25.95	100	250	Horizontal	PASS
2	148.825	13.79	-15.96	43.50	29.71	200	330	Horizontal	PASS
3	166.770	13.98	-16.15	43.50	29.52	100	130	Horizontal	PASS
4	360.285	15.17	-14.61	46.00	30.83	100	140	Horizontal	PASS
5	589.205	23.46	-8.77	46.00	22.54	200	80	Horizontal	PASS
6	721.610	25.12	-6.42	46.00	20.88	100	230	Horizontal	PASS

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	Verdict
1	1225.6	42.92	2.47	74.00	31.08	150	327	Vertical	PASS
2	1800.4	44.37	5.24	74.00	29.63	150	310	Vertical	PASS
3	3948	45.39	-15.52	74.00	28.61	150	201	Vertical	PASS
4	6087	43.65	-11.63	74.00	30.35	150	228	Vertical	PASS
5	7117.5	45.40	-10.81	74.00	28.60	150	172	Vertical	PASS
6	11222.2	46.97	-3.37	74.00	27.03	150	172	Vertical	PASS

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1317.2	42.95	2.63	74.00	31.05	150	196	Horizontal	PASS
2	1907.2	45.01	6.14	74.00	28.99	150	320	Horizontal	PASS
3	3594.75	41.30	-16.65	74.00	32.70	150	116	Horizontal	PASS
4	5494.5	42.46	-12.66	74.00	31.54	150	257	Horizontal	PASS
5	6970.5	43.08	-10.89	74.00	30.92	150	145	Horizontal	PASS
6	11241	46.46	-3.93	74.00	27.54	150	257	Horizontal	PASS

Mode:	1M-2440
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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1213.2	42.95	2.53	74.00	31.05	150	313	Vertical	PASS
2	1960.8	45.73	6.51	74.00	28.27	150	269	Vertical	PASS
3	3950.25	47.05	-15.41	74.00	26.95	150	103	Vertical	PASS
4	6591	44.37	-10.90	74.00	29.63	150	103	Vertical	PASS
5	9096.75	43.93	-8.04	74.00	30.07	150	159	Vertical	PASS
6	14436	47.75	0.11	74.00	26.25	150	103	Vertical	PASS

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1235.6	42.62	2.51	74.00	31.38	150	94	Horizontal	PASS
2	1864.8	44.42	5.96	74.00	29.58	150	146	Horizontal	PASS
3	3844.5	42.33	-15.70	74.00	31.67	150	159	Horizontal	PASS
4	5667	42.96	-12.38	74.00	31.04	150	188	Horizontal	PASS
5	6145.5	44.42	-10.81	74.00	29.58	150	40	Horizontal	PASS
6	14283	48.97	0.74	74.00	25.03	150	125	Horizontal	PASS

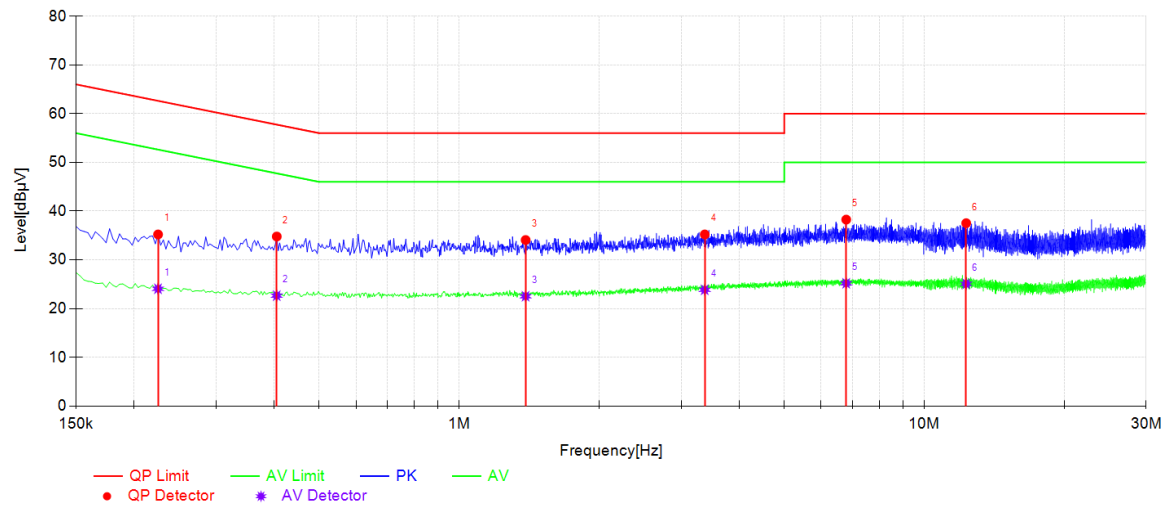
Mode:	1M-2480
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NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1350	42.97	2.52	74.00	31.03	150	132	Vertical	PASS
2	1949.2	45.37	6.18	74.00	28.63	150	108	Vertical	PASS
3	3945.75	44.81	-15.67	74.00	29.19	150	19	Vertical	PASS
4	4730.25	47.47	-14.46	74.00	26.53	150	159	Vertical	PASS
5	6581.25	46.15	-10.87	74.00	27.85	150	103	Vertical	PASS
6	13790.2	47.31	-0.53	74.00	26.69	150	47	Vertical	PASS

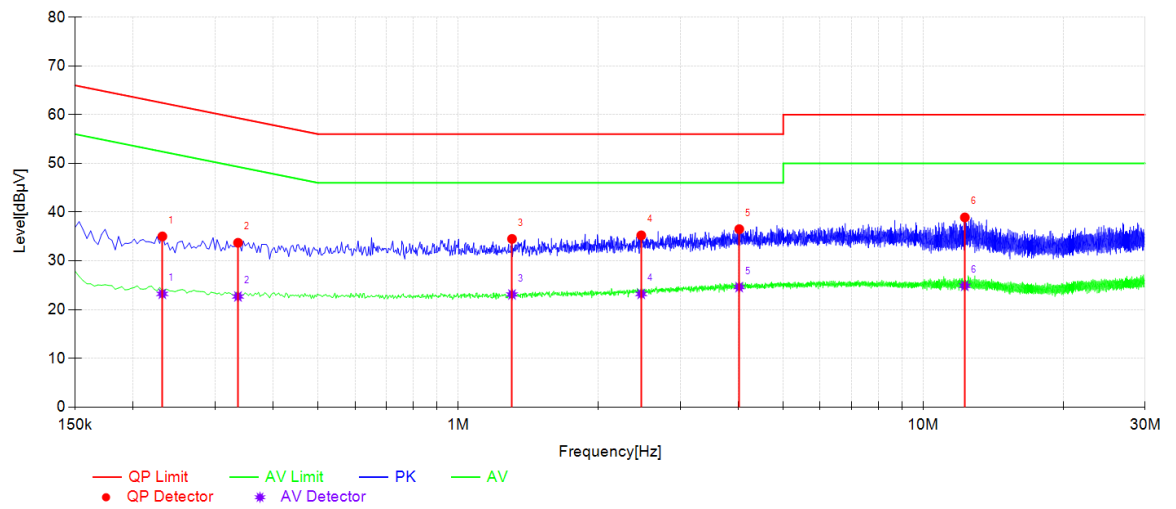
NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	1146	42.17	2.21	74.00	31.83	150	355	Horizontal	PASS
2	1935.6	45.10	6.11	74.00	28.90	150	135	Horizontal	PASS
3	4578.75	42.30	-14.90	74.00	31.70	150	188	Horizontal	PASS
4	6200.25	43.43	-11.23	74.00	30.57	150	104	Horizontal	PASS
5	6686.25	44.20	-11.04	74.00	29.80	150	104	Horizontal	PASS
6	11206.5	46.59	-3.71	74.00	27.41	150	244	Horizontal	PASS

Appendix J: Conducted emission AC power port

Test Result



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.225	10.34	35.23	62.63	27.40	24.07	52.63	28.56	L1	PASS
2	0.405	10.28	34.80	57.75	22.95	22.66	47.75	25.09	L1	PASS
3	1.389	10.33	34.08	56.00	21.92	22.54	46.00	23.46	L1	PASS
4	3.372	10.29	35.23	56.00	20.77	23.86	46.00	22.14	L1	PASS
5	6.795	10.41	38.27	60.00	21.73	25.19	50.00	24.81	L1	PASS
6	12.31	10.50	37.53	60.00	22.47	25.09	50.00	24.91	L1	PASS



Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type	Verdict
1	0.231	10.34	35.03	62.41	27.38	23.23	52.41	29.18	N	PASS
2	0.336	10.30	33.72	59.30	25.58	22.70	49.30	26.60	N	PASS
3	1.305	10.30	34.51	56.00	21.49	23.11	46.00	22.89	N	PASS
4	2.475	10.38	35.24	56.00	20.76	23.22	46.00	22.78	N	PASS
5	4.02	10.40	36.51	56.00	19.49	24.62	46.00	21.38	N	PASS
6	12.286	10.54	38.92	60.00	21.08	24.89	50.00	25.11	N	PASS