

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
GFSK	Ant1	2403	0.6044	0.5	PASS
		2442	0.6014	0.5	PASS
		2480	0.6035	0.5	PASS

Test Graphs



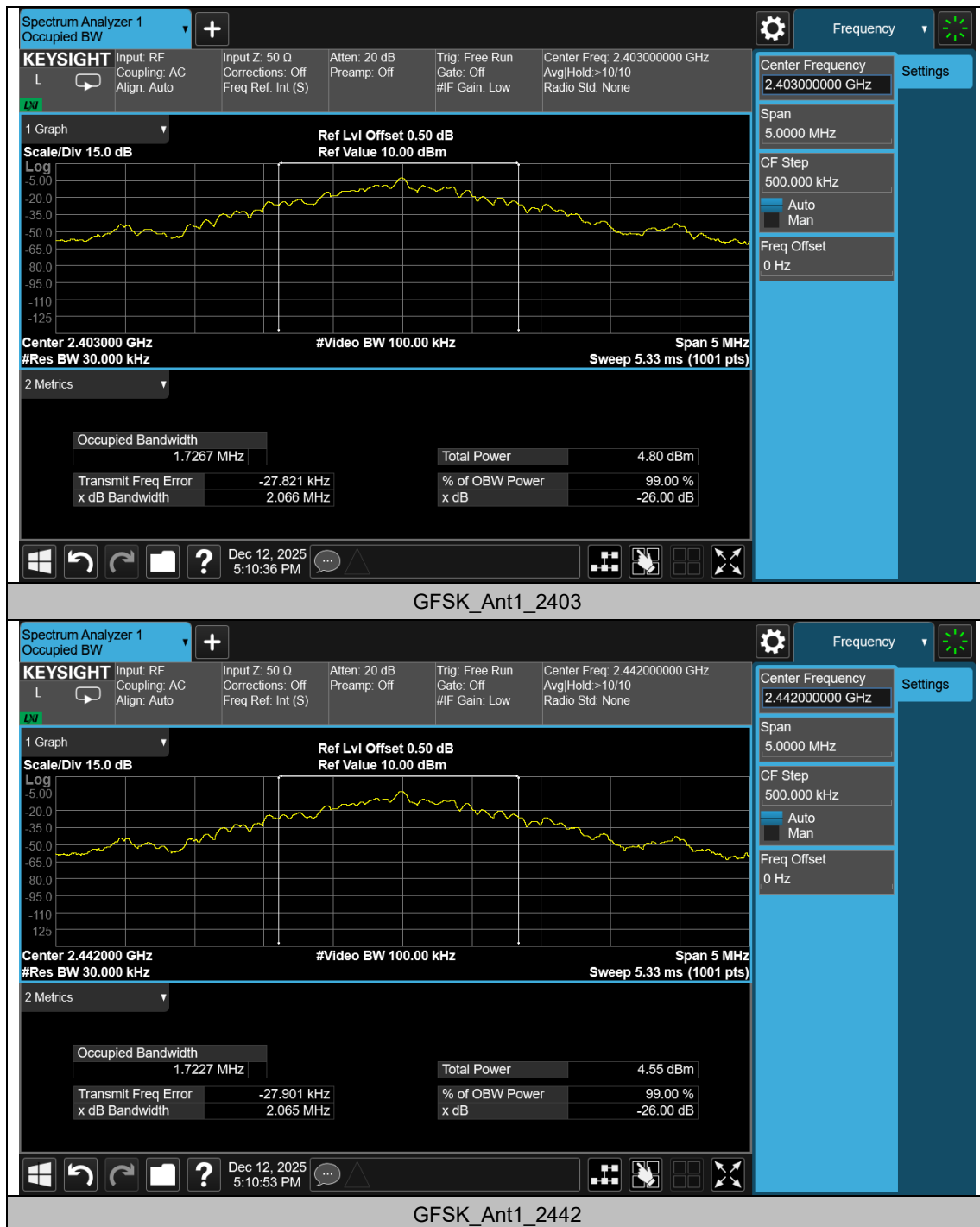


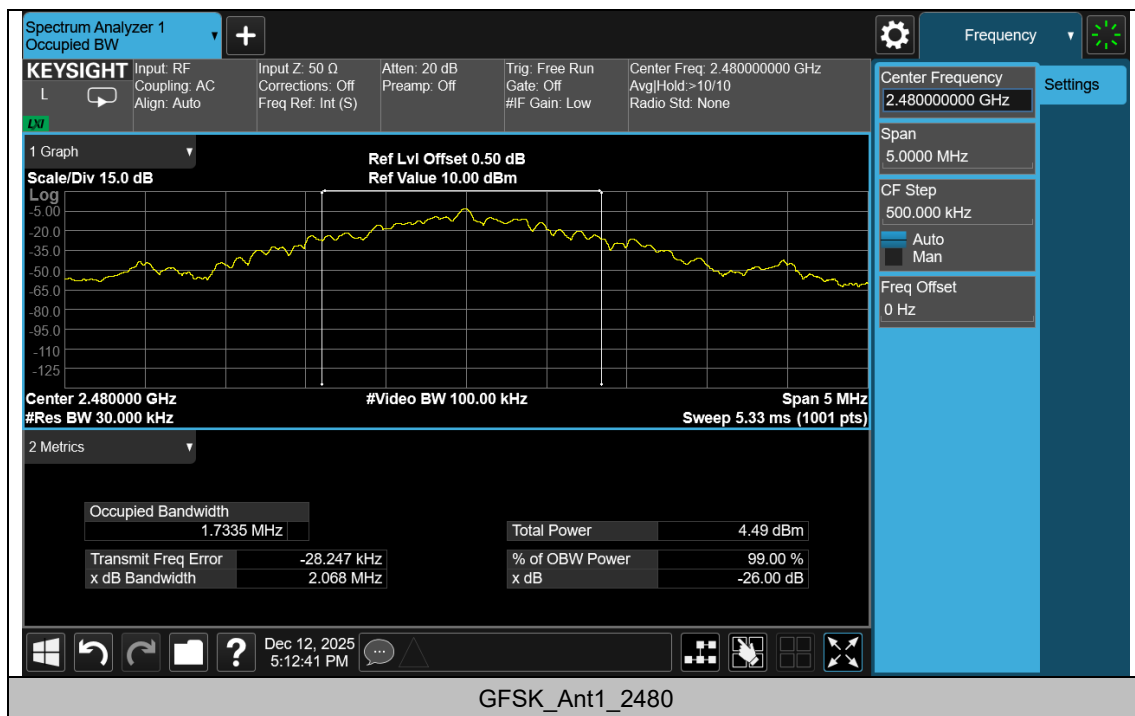
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	Limit[MHz]	Verdict
GFSK	Ant1	2403	2.066	---	---
		2442	2.065	---	---
		2480	2.068	---	---

Test Graphs





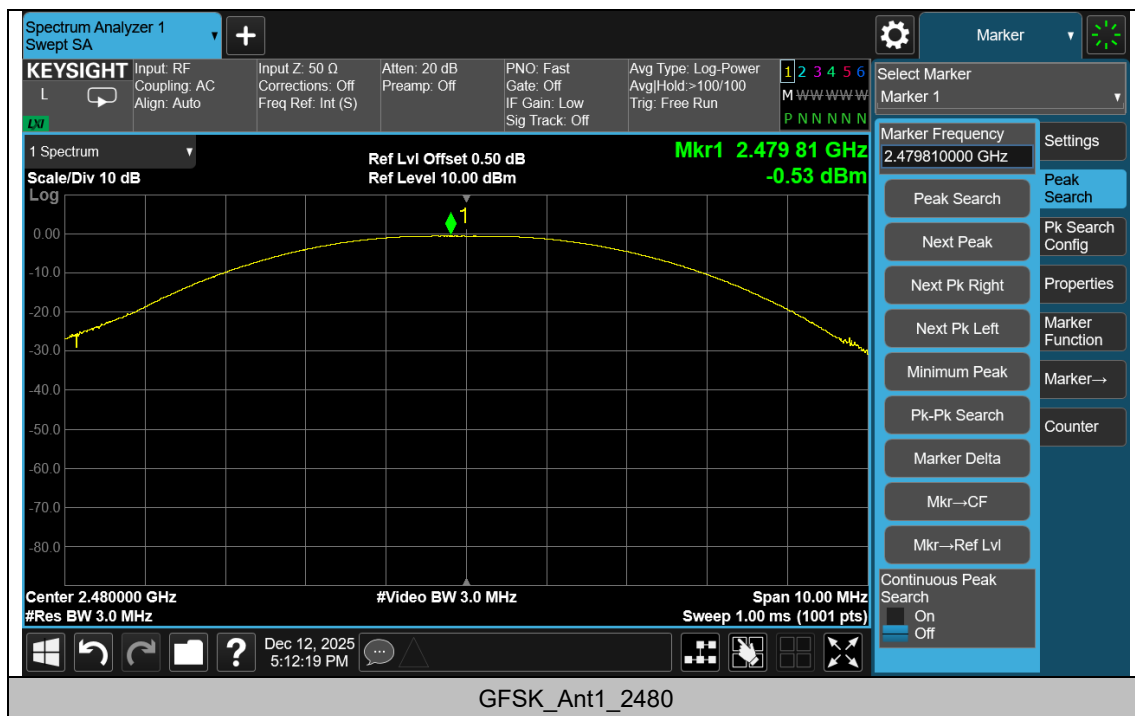
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
GFSK	Ant1	2403	-0.36	≤30	PASS
		2442	-0.52	≤30	PASS
		2480	-0.53	≤30	PASS

Test Graphs Peak



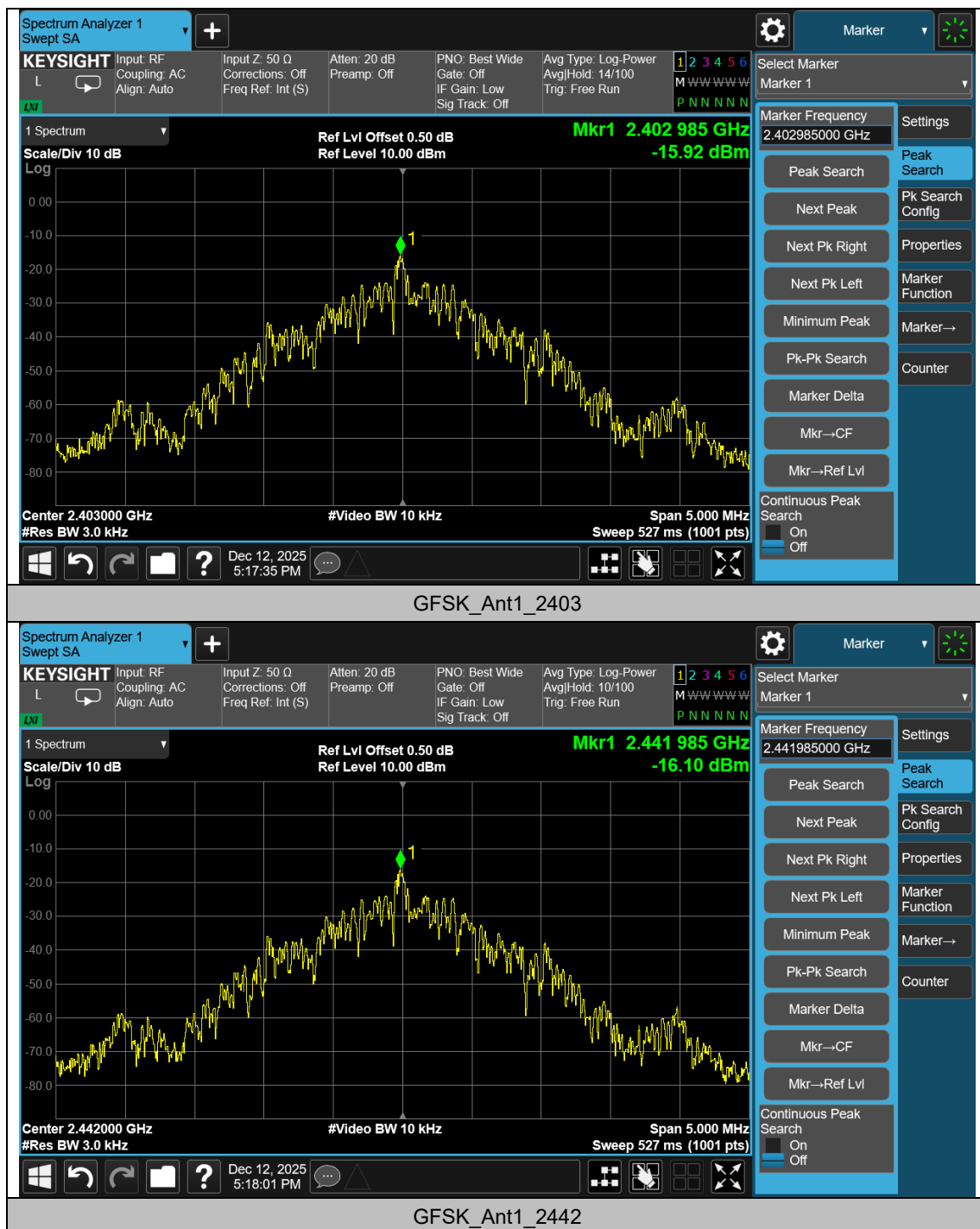


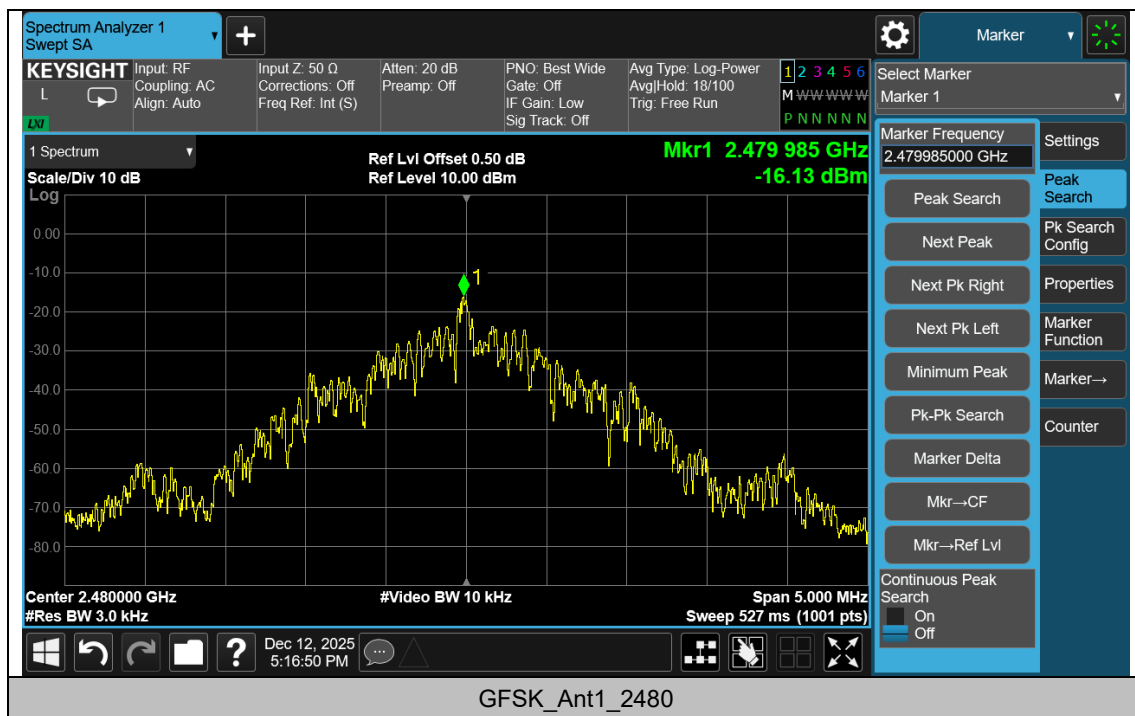
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
GFSK	Ant1	2403	-15.92	≤8.00	PASS
		2442	-16.10	≤8.00	PASS
		2480	-16.13	≤8.00	PASS

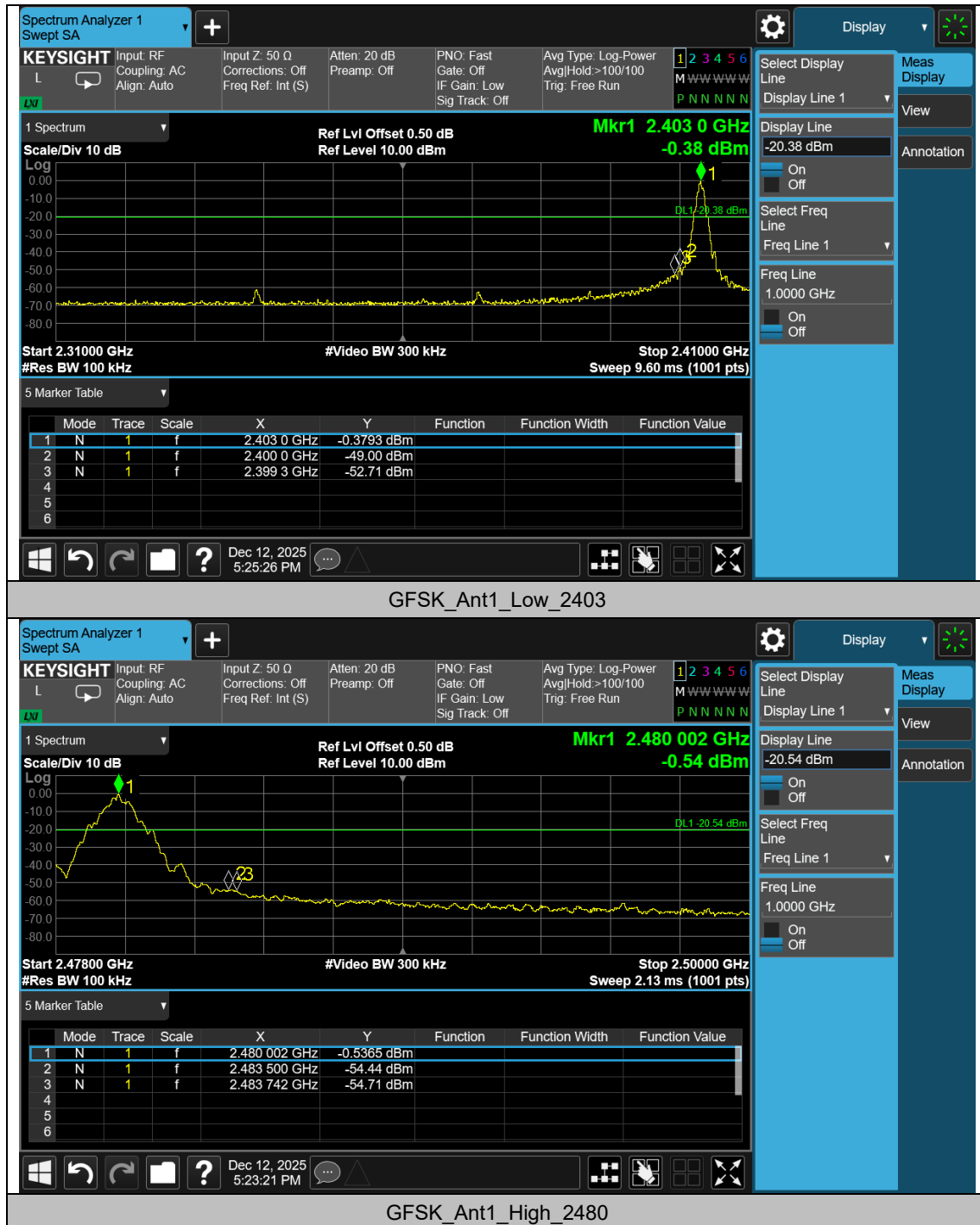
Test Graphs





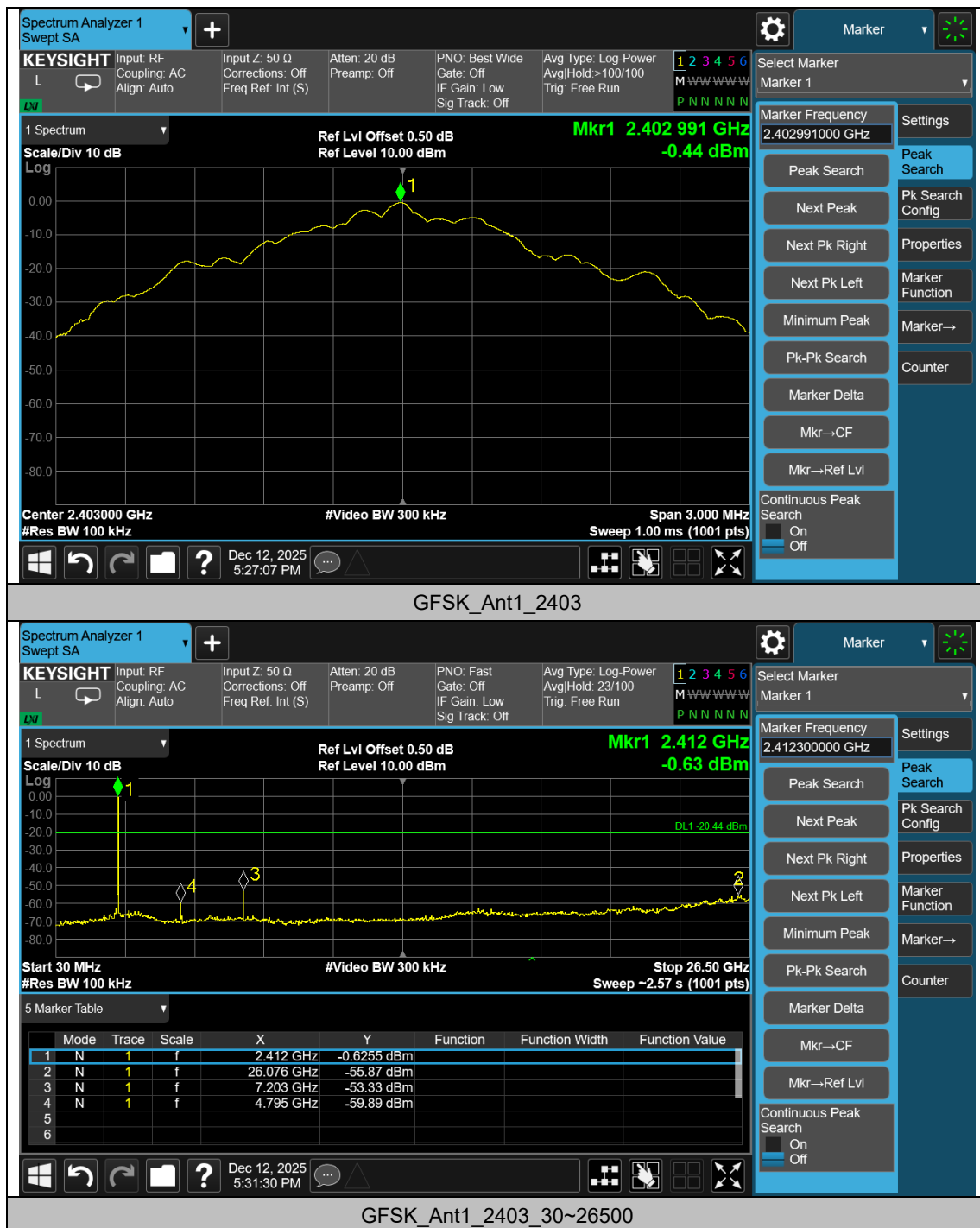
Appendix E: Band edge measurements

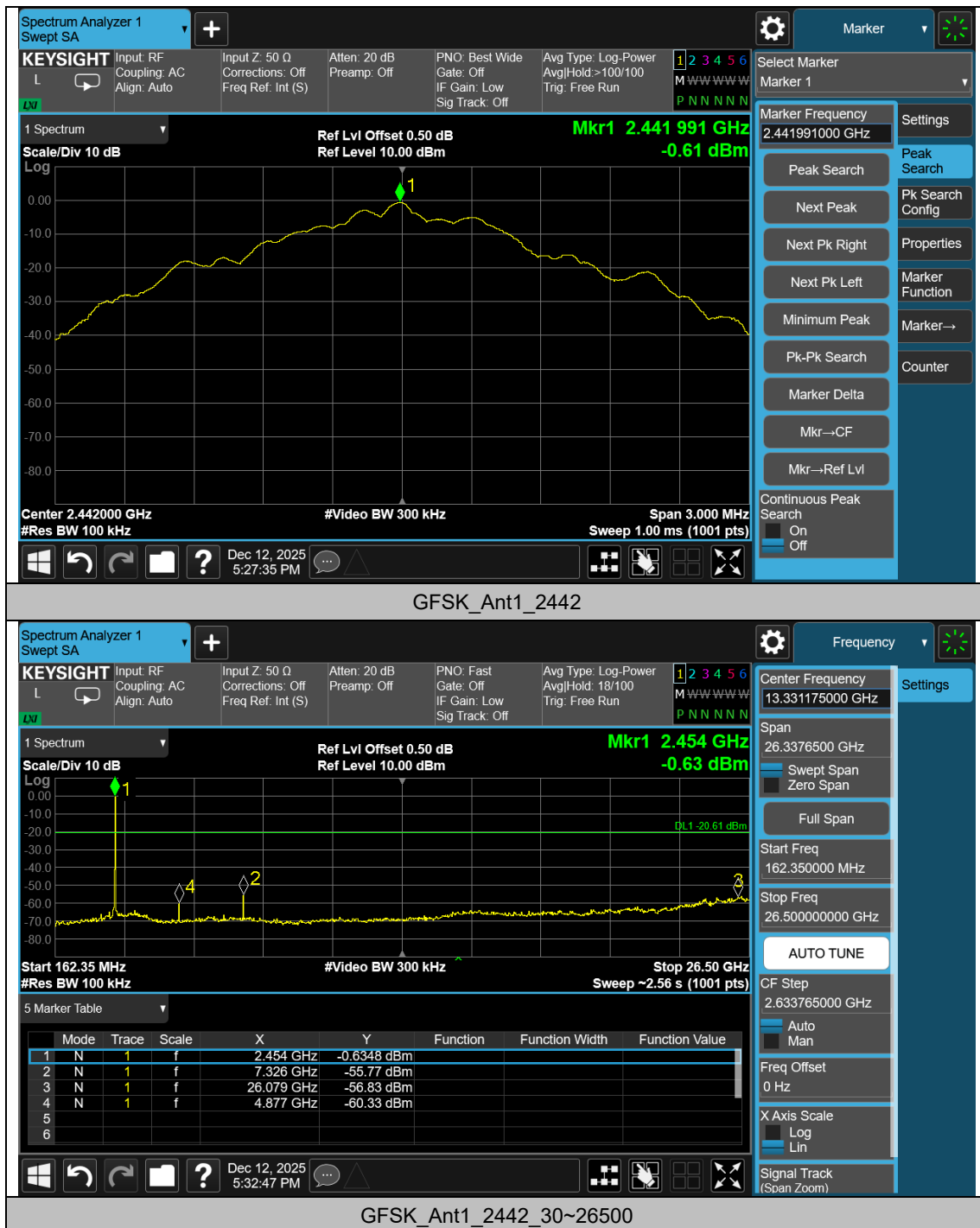
Test Result

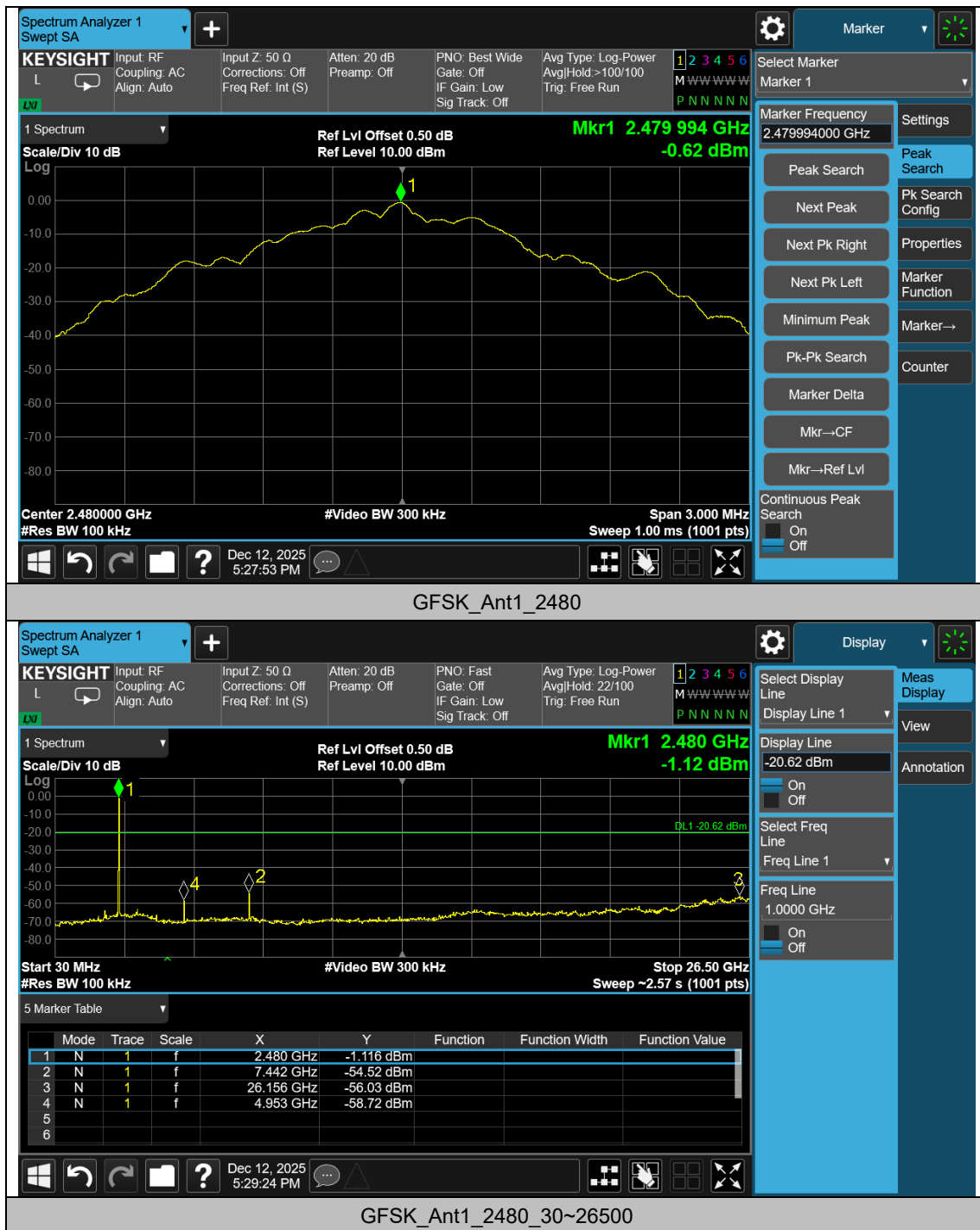


Appendix F: Conducted Spurious Emission

Test Result





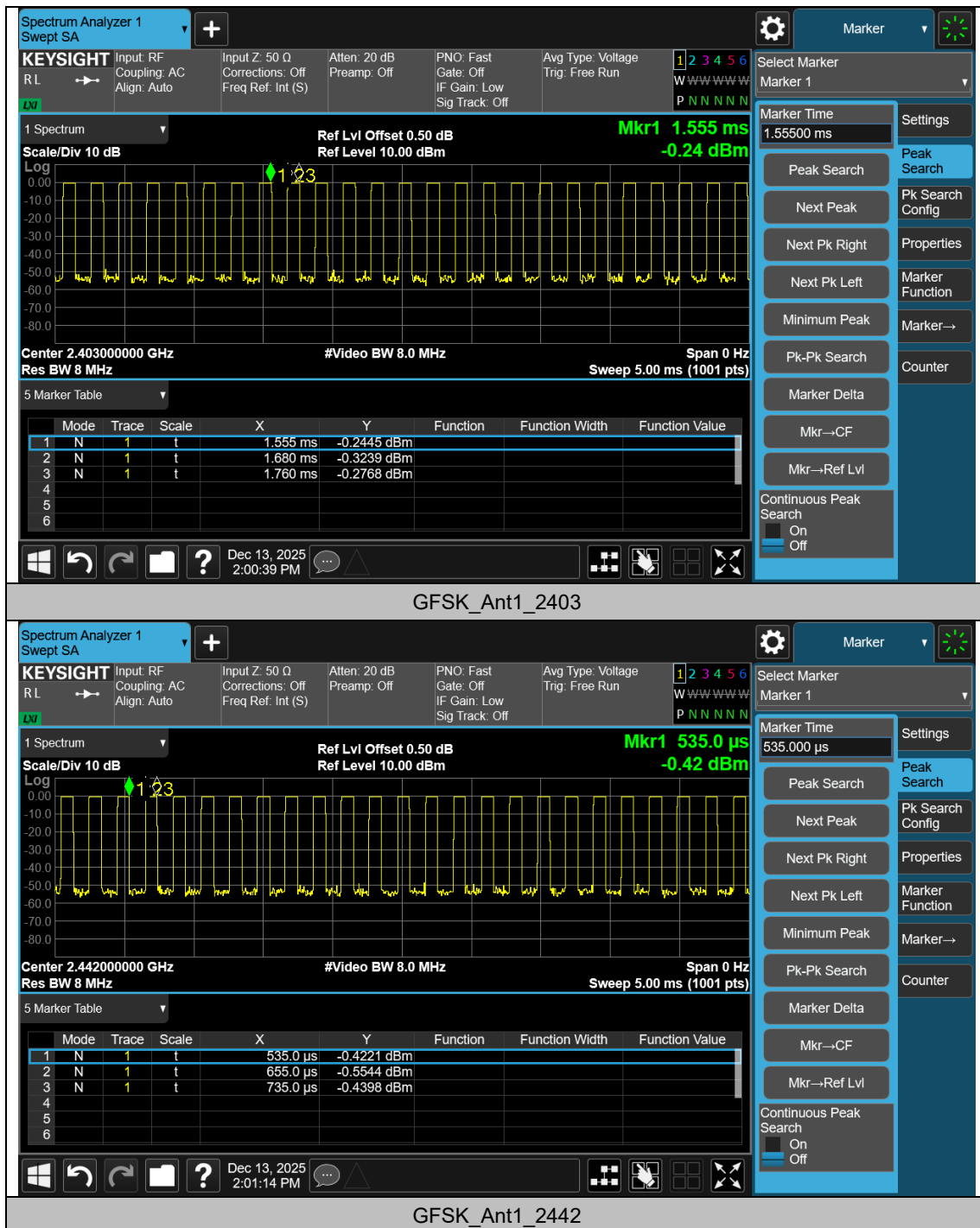


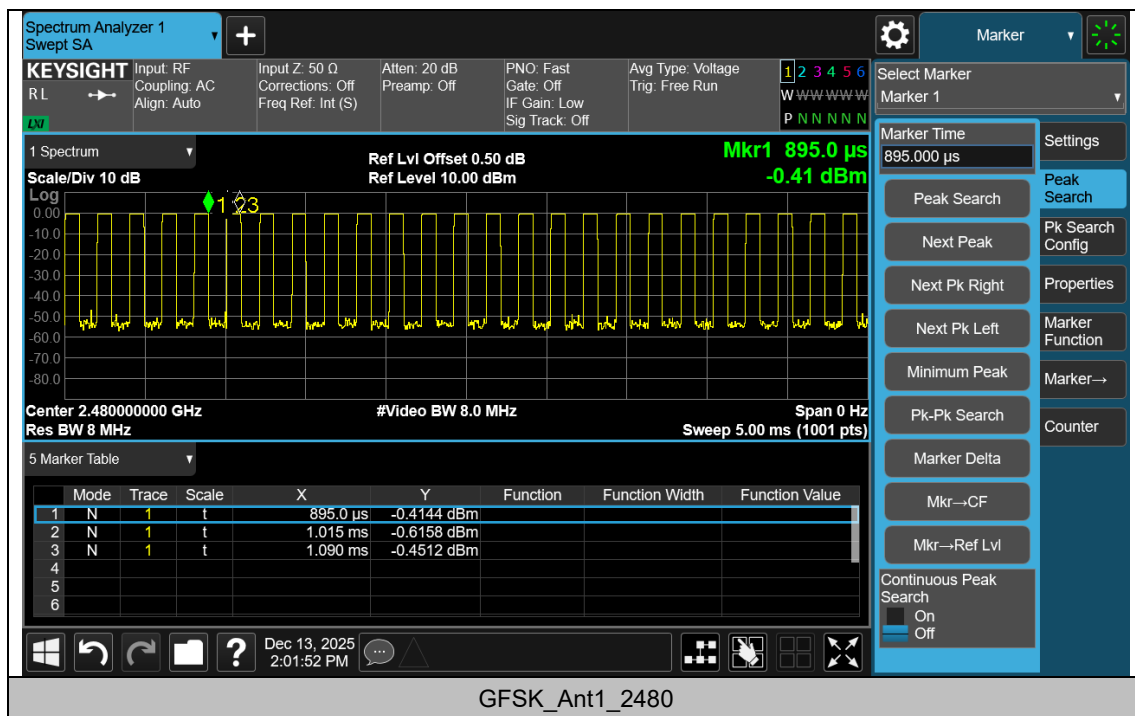
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
GFSK	Ant1	2403	0.08	0.205	39.02
		2442	0.08	0.2	40
		2480	0.075	0.195	38.46

Test Graphs





Appendix H: Emissions in Restricted Bands

Test Result

Mode:	GFSK-2403
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Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	3.12	27.23	30.35	74.00	43.65	54.00	150	158	Horizontal	PASS
2	2321.36	3.33	27.34	30.67	74.00	43.33	54.00	150	40	Horizontal	PASS
3	2334.24	3.27	27.34	30.61	74.00	43.39	54.00	150	263	Horizontal	PASS
4	2345.28	3.50	27.35	30.85	74.00	43.15	54.00	150	353	Horizontal	PASS
5	2364.96	3.69	27.19	30.88	74.00	43.12	54.00	150	292	Horizontal	PASS
6	2390	4.38	27.41	31.79	74.00	42.21	54.00	150	71	Horizontal	PASS

Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	2310	3.12	27.22	30.34	74.00	43.66	54.00	150	112	Vertical	PASS
2	2320.24	3.34	27.31	30.65	74.00	43.35	54.00	150	265	Vertical	PASS
3	2343.84	3.44	27.37	30.81	74.00	43.19	54.00	150	325	Vertical	PASS
4	2354.4	3.52	27.34	30.86	74.00	43.14	54.00	150	313	Vertical	PASS
5	2365.04	3.69	27.13	30.82	74.00	43.18	54.00	150	61	Vertical	PASS
6	2390	4.38	27.41	31.79	74.00	42.21	54.00	150	118	Vertical	PASS

Mode:	GFSK-2480
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Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	3.46	34.84	38.30	74.00	35.70	54.00	150	59	Horizontal	PASS
2	2484.8695	3.53	34.76	38.29	74.00	35.71	54.00	150	59	Horizontal	PASS
3	2488.3345	3.49	34.75	38.24	74.00	35.76	54.00	150	203	Horizontal	PASS
4	2492.014	3.56	34.71	38.27	74.00	35.73	54.00	150	117	Horizontal	PASS
5	2495.215	3.56	34.68	38.24	74.00	35.76	54.00	150	210	Horizontal	PASS
6	2500	3.50	34.66	38.16	74.00	35.84	54.00	150	212	Horizontal	PASS

Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	2483.5	3.46	34.75	38.21	74.00	35.79	54.00	150	36	Vertical	PASS
2	2485.2985	3.52	34.7	38.22	74.00	35.78	54.00	150	34	Vertical	PASS
3	2489.0275	3.56	34.71	38.27	74.00	35.73	54.00	150	52	Vertical	PASS
4	2491.5355	3.56	34.7	38.26	74.00	35.74	54.00	150	262	Vertical	PASS
5	2493.895	3.59	34.69	38.28	74.00	35.72	54.00	150	313	Vertical	PASS
6	2500	3.50	34.65	38.15	74.00	35.85	54.00	150	95	Vertical	PASS

Appendix I: Spurious emissions

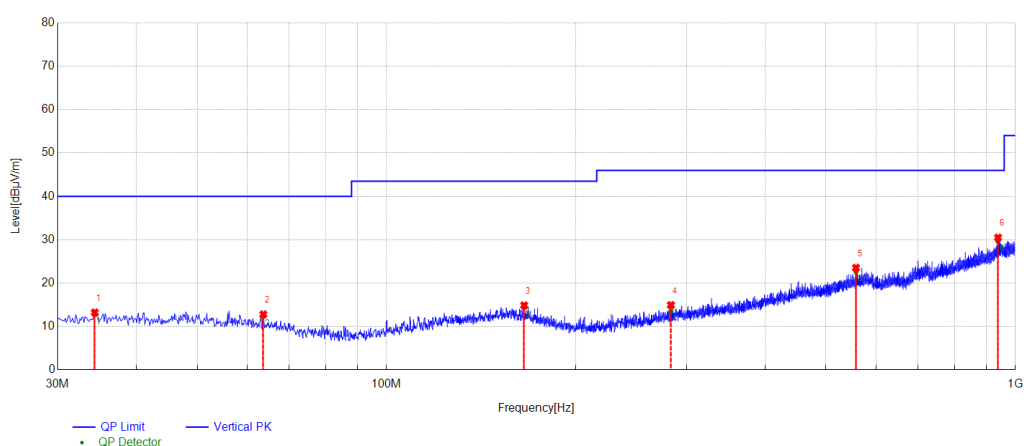
Test Result

Note:

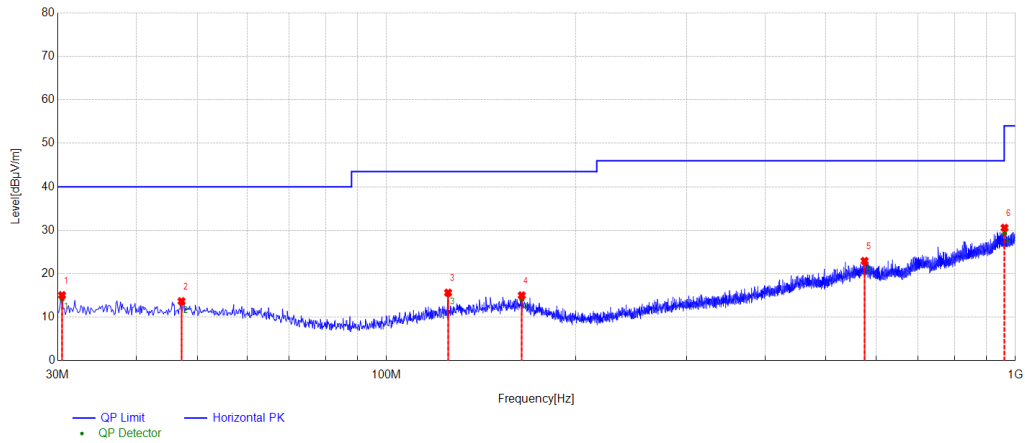
The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels. The test data of the worst-case (2442MHz) condition was recorded in this report.

The measurement results above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz are reported.



QP Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	34.3650	-16.27	12.78	40.00	27.22	100	53	Vertical	PASS
2	63.7075	-17.30	12.35	40.00	27.65	100	270	Vertical	PASS
3	165.5575	-16.08	14.41	43.50	29.09	200	172	Vertical	PASS
4	283.2912	-16.61	13.52	46.00	32.48	200	219	Vertical	PASS
5	557.9225	-9.83	22.66	46.00	23.34	100	192	Vertical	PASS
6	938.5262	-1.65	29.62	46.00	16.38	200	320	Vertical	PASS



QP Final Data List									
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	30.4850	-16.40	14.15	40.00	25.85	200	153	Horizontal	PASS
2	47.2175	-16.03	13.30	40.00	26.70	100	311	Horizontal	PASS
3	125.3025	-17.20	15.27	43.50	28.23	200	315	Horizontal	PASS
4	164.1025	-15.92	14.10	43.50	29.40	100	186	Horizontal	PASS
5	575.8675	-9.29	22.56	46.00	23.44	100	65	Horizontal	PASS
6	961.2000	-1.49	29.22	54.00	24.78	100	238	Horizontal	PASS

Mode:	GFSK-2403
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Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	3429	-20.06	58.04	37.98	74.00	36.02	54.00	150	30	Horizontal	PASS
2	4887	-13.81	54.5	40.69	74.00	33.31	54.00	150	352	Horizontal	PASS
3	5585.25	-13.20	55.18	41.98	74.00	32.02	54.00	150	348	Horizontal	PASS
4	6462	-9.98	53.21	43.23	74.00	30.77	54.00	150	316	Horizontal	PASS
5	7209.75	-9.08	58.1	49.02	74.00	24.98	54.00	150	238	Horizontal	PASS
6	11595.75	-2.50	50.55	48.05	74.00	25.95	54.00	150	304	Horizontal	PASS

Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	3370.5	-19.91	58.17	38.26	74.00	35.74	54.00	150	324	Vertical	PASS
2	5020.5	-13.60	54.55	40.95	74.00	33.05	54.00	150	270	Vertical	PASS
3	7209	-9.14	59.63	50.49	74.00	23.51	54.00	150	216	Vertical	PASS
4	9832.5	-4.28	50.65	46.37	74.00	27.63	54.00	150	63	Vertical	PASS
5	11881.5	-1.40	48.98	47.58	74.00	26.42	54.00	150	270	Vertical	PASS
6	13991.25	0.96	49.25	50.21	74.00	23.79	54.00	150	4	Vertical	PASS

Mode:	GFSK-2442
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Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	3951	-17.31	56.02	38.71	74.00	35.29	54.00	150	167	Horizontal	PASS
2	5591.25	-13.16	54.59	41.43	74.00	32.57	54.00	150	360	Horizontal	PASS
3	6528.75	-10.40	55.12	44.72	74.00	29.28	54.00	150	96	Horizontal	PASS
4	7326	-9.20	59.82	50.62	74.00	23.38	54.00	150	229	Horizontal	PASS
5	8140.5	-7.61	52.83	45.22	74.00	28.78	54.00	150	360	Horizontal	PASS
6	10880.25	-3.46	51.06	47.60	74.00	26.40	54.00	150	360	Horizontal	PASS

Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	3947.25	-17.43	55.52	38.09	74.00	35.91	54.00	150	133	Vertical	PASS
2	5537.25	-12.94	54.52	41.58	74.00	32.42	54.00	150	166	Vertical	PASS
3	7326	-9.20	59.18	49.98	74.00	24.02	54.00	150	80	Vertical	PASS
4	9954.75	-4.01	51.29	47.28	74.00	26.72	54.00	150	179	Vertical	PASS
5	11607.75	-2.32	50.35	48.03	74.00	25.97	54.00	150	179	Vertical	PASS
6	13698	0.80	50.02	50.82	74.00	23.18	54.00	150	220	Vertical	PASS

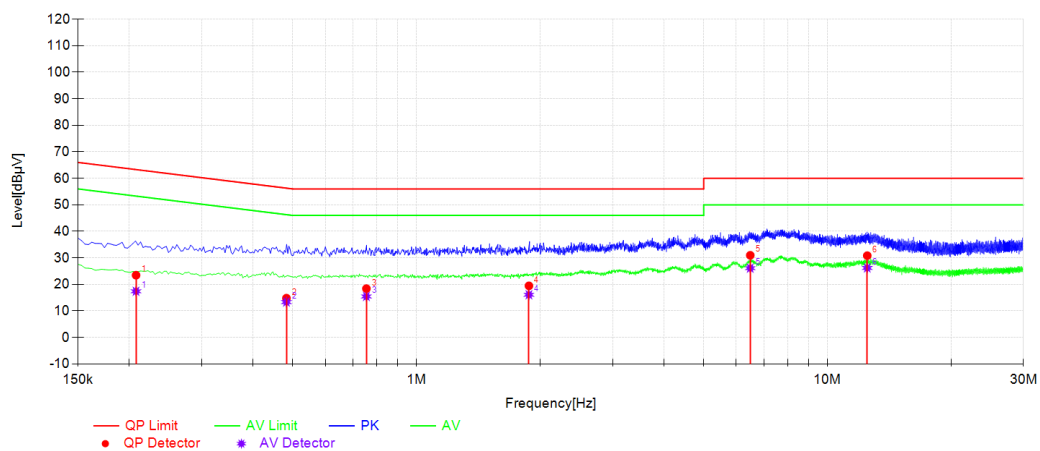
Mode:	GFSK-2480
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Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	3738.75	-18.79	56.46	37.67	74.00	36.33	54.00	150	348	Horizontal	PASS
2	5043	-13.25	54.4	41.15	74.00	32.85	54.00	150	124	Horizontal	PASS
3	5936.25	-12.26	55.33	43.07	74.00	30.93	54.00	150	99	Horizontal	PASS
4	7440	-8.89	58.9	50.01	74.00	23.99	54.00	150	186	Horizontal	PASS
5	9529.5	-4.69	51.46	46.77	74.00	27.23	54.00	150	327	Horizontal	PASS
6	14385	1.36	48.68	50.04	74.00	23.96	54.00	150	9	Horizontal	PASS

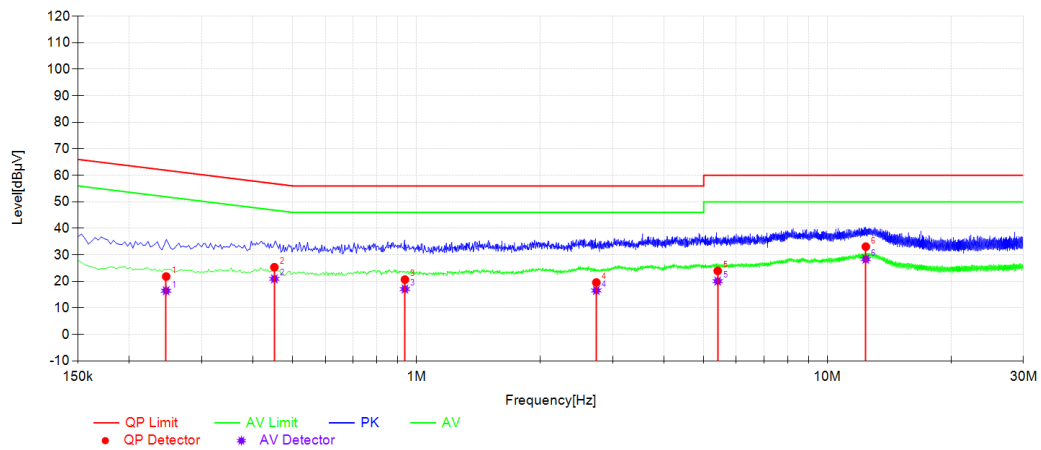
Final Data List											
NO.	Frequency [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	AV Limit [dBμV/m]	Height [cm]	Angle [°]	Polarity	Verdict
1	3846.75	-17.83	56.11	38.28	74.00	35.72	54.00	150	360	Vertical	PASS
2	4902.75	-13.41	54.63	41.22	74.00	32.78	54.00	150	150	Vertical	PASS
3	6148.5	-10.59	53.5	42.91	74.00	31.09	54.00	150	360	Vertical	PASS
4	7440.75	-8.90	59.16	50.26	74.00	23.74	54.00	150	360	Vertical	PASS
5	9547.5	-4.77	51.46	46.69	74.00	27.31	54.00	150	360	Vertical	PASS
6	11253.75	-3.08	50.9	47.82	74.00	26.18	54.00	150	96	Vertical	PASS

Appendix J: Conducted emission

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	0.2076	10.35	23.48	63.30	39.82	17.41	53.30	35.89	L1	PASS
2	0.4823	10.26	14.82	56.30	41.48	13.34	46.30	32.96	L1	PASS
3	0.7550	10.28	18.42	56.00	37.58	15.47	46.00	30.53	L1	PASS
4	1.8774	10.29	19.47	56.00	36.53	16.09	46.00	29.91	L1	PASS
5	6.4894	10.40	30.98	60.00	29.02	26.12	50.00	23.88	L1	PASS
6	12.5026	10.50	30.85	60.00	29.15	26.21	50.00	23.79	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	0.2458	10.33	21.84	61.90	40.06	16.49	51.90	35.41	N	PASS
2	0.4508	10.27	25.34	56.86	31.52	20.95	46.86	25.91	N	PASS
3	0.9370	10.26	20.69	56.00	35.31	17.11	46.00	28.89	N	PASS
4	2.7390	10.39	19.59	56.00	36.41	16.59	46.00	29.41	N	PASS
5	5.4089	10.41	23.97	60.00	36.03	20.08	50.00	29.92	N	PASS
6	12.4035	10.55	33.11	60.00	26.89	28.37	50.00	21.63	N	PASS