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APPENDIX A.1: EFFECTIVE (ISOTROPIC) RADIATED POWER

Test Result

WCDMA

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	23.00	33	PASS
Band2	9400	22.56	33	PASS
Band2	9538	22.73	33	PASS

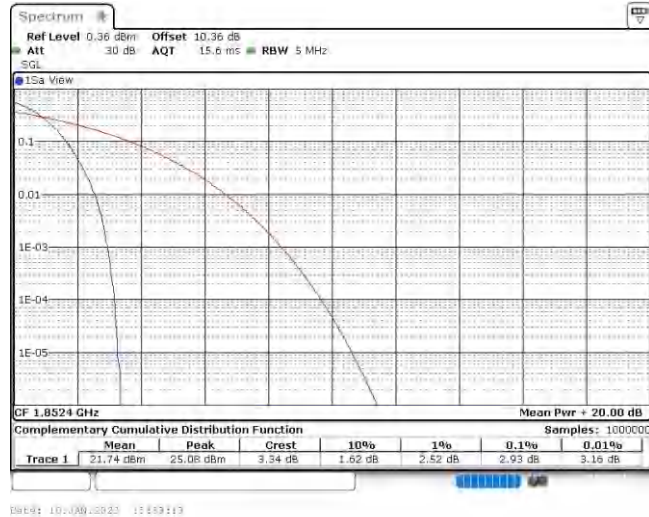
APPENDIX A.2: PEAK-TO AVERAGE RATIO

Test Result

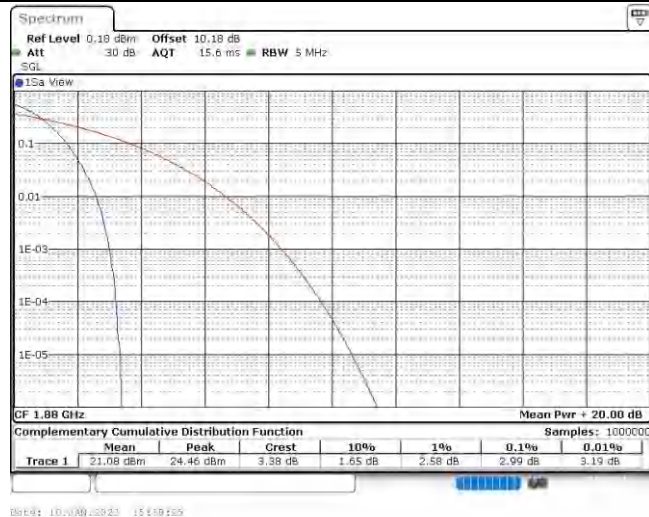
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	2.93	13	PASS
Band2	9400	2.99	13	PASS
Band2	9538	3.07	13	PASS

Test Graphs

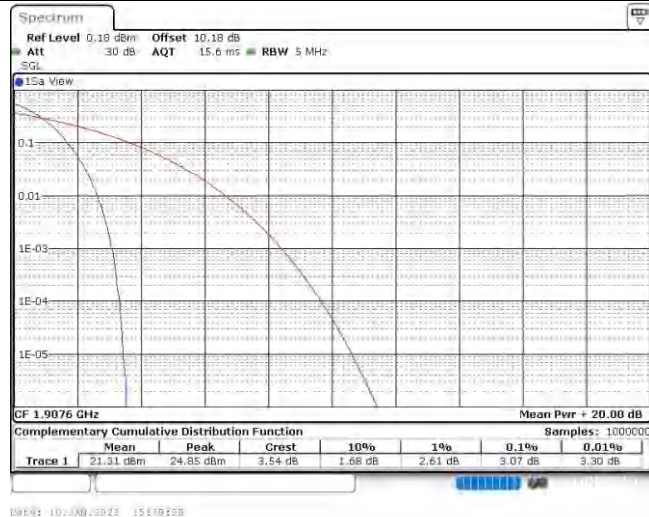
Band2-9262



Band2-9400



Band2-9538



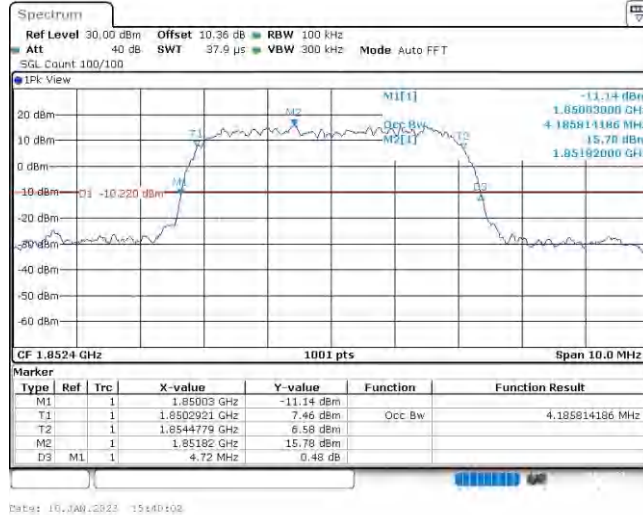
APPENDIX A.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

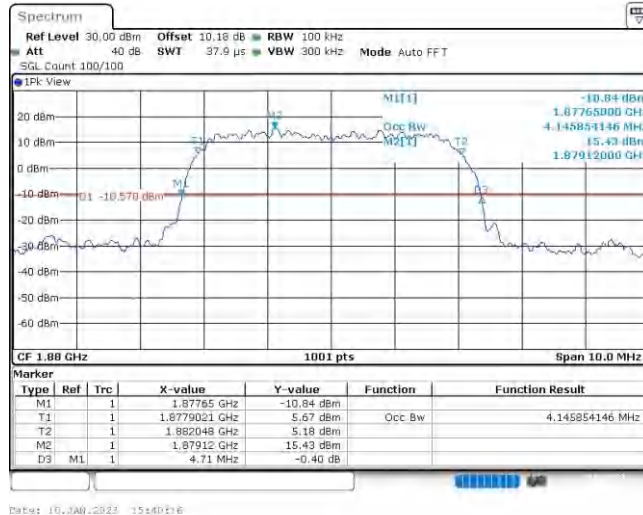
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.186	4.72	---	PASS
Band2	9400	4.146	4.71	---	PASS
Band2	9538	4.196	4.71	---	PASS

Test Graphs

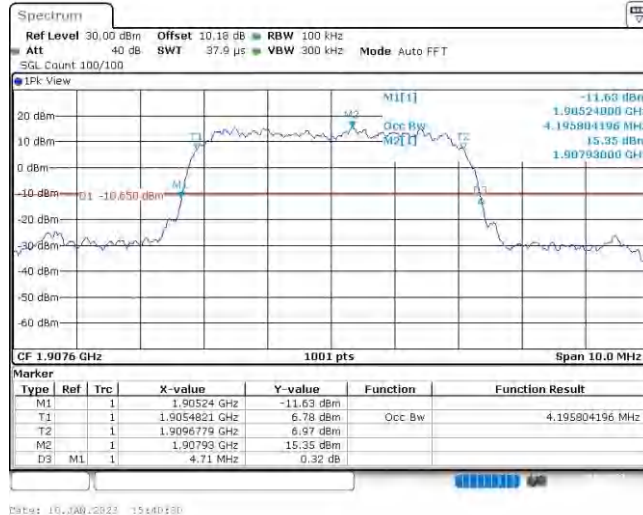
Band2-9262-4.72



Band2-9400-4.71



Band2-9538-4.71



APPENDIX A.4: BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.84	-23.70	-13	PASS
Band2	9538	1910.00	-25.32	-13	PASS

Test Graphs



APPENDIX A.5: CONDUCTED SPURIOUS EMISSIONS

Test Result

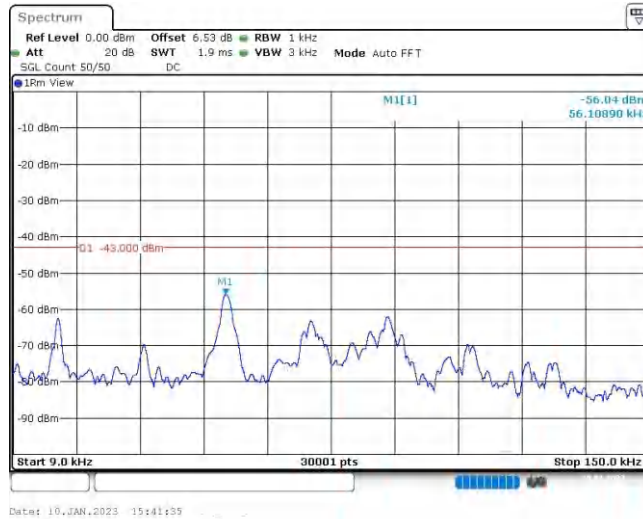
General:

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.06	-56.04	-43	PASS
Band2	9262	0.15~30MHz	22.53	-63.17	-33	PASS
Band2	9262	30~1000MHz	927.14	-38.21	-13	PASS
Band2	9262	1000~3000MHz	2975.4	-43.1	-13	PASS
Band2	9262	3000~10000MHz	6916.02	-50.17	-13	PASS
Band2	9262	10000~20000MHz	15588.98	-42.6	-13	PASS
Band2	9400	0.009~0.15MHz	0.06	-57.76	-43	PASS
Band2	9400	0.15~30MHz	0.3	-63.53	-33	PASS
Band2	9400	30~1000MHz	885.17	-37.76	-13	PASS
Band2	9400	1000~3000MHz	2964.4	-43.15	-13	PASS
Band2	9400	3000~10000MHz	6900.39	-50.23	-13	PASS
Band2	9400	10000~20000MHz	15859.3	-42.65	-13	PASS
Band2	9538	0.009~0.15MHz	0.06	-54.89	-43	PASS
Band2	9538	0.15~30MHz	3.84	-63.19	-33	PASS
Band2	9538	30~1000MHz	632.66	-37.73	-13	PASS
Band2	9538	1000~3000MHz	2968.2	-43.22	-13	PASS
Band2	9538	3000~10000MHz	6910.89	-50.21	-13	PASS
Band2	9538	10000~20000MHz	15881.64	-42.79	-13	PASS

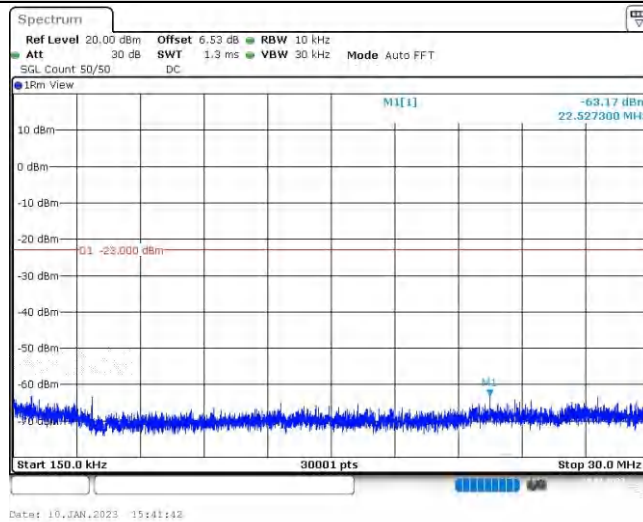
Test Graphs

General:

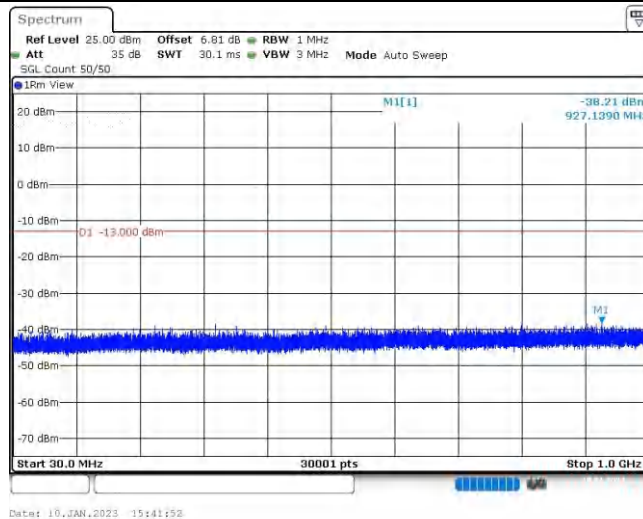
Band2-9262-0.009~0.15MHz



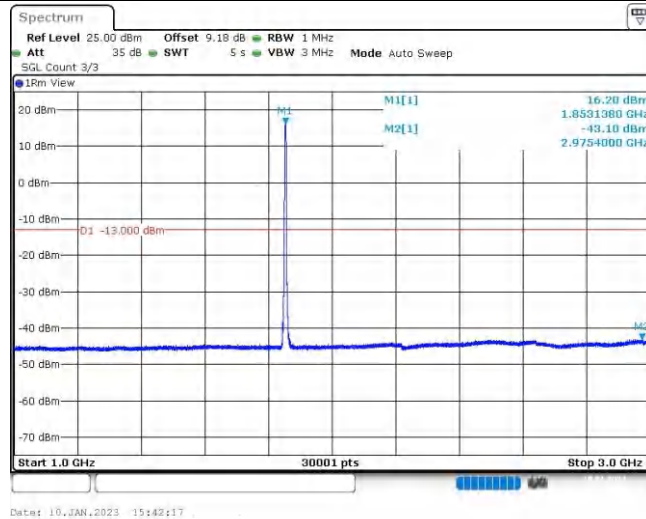
Band2-9262-0.15~30MHz



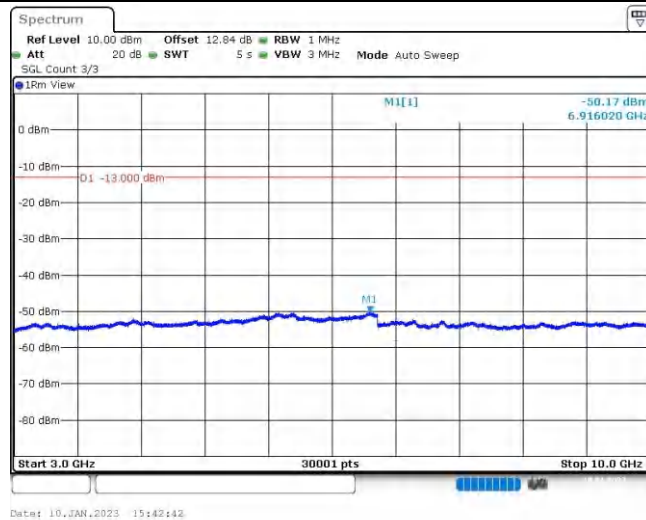
Band2-9262-30~1000MHz



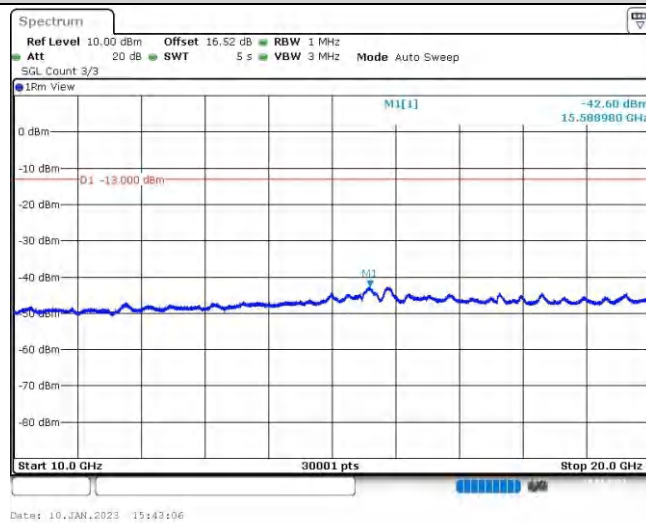
Band2-9262-1000~3000MHz



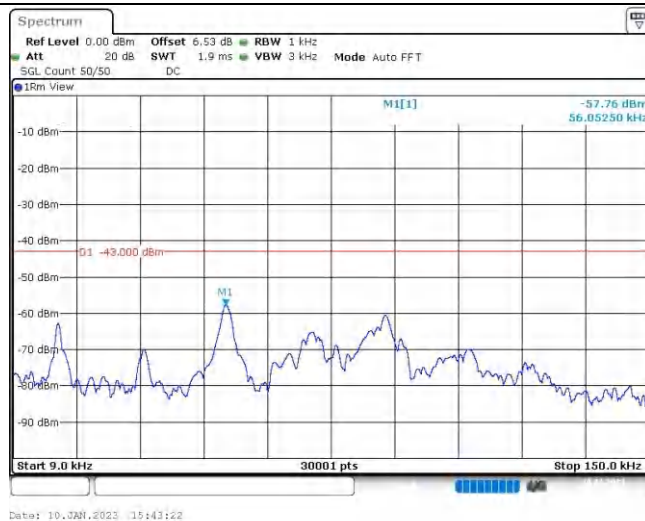
Band2-9262-3000~10000MHz



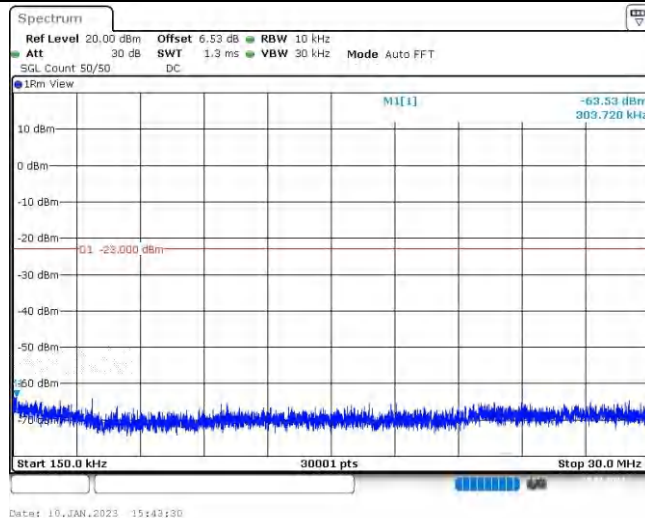
Band2-9262-10000~20000MHz



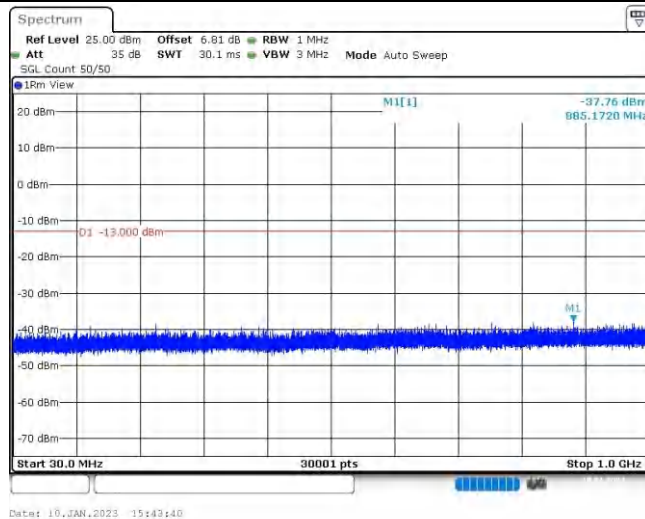
Band2-9400-0.009~0.15MHz



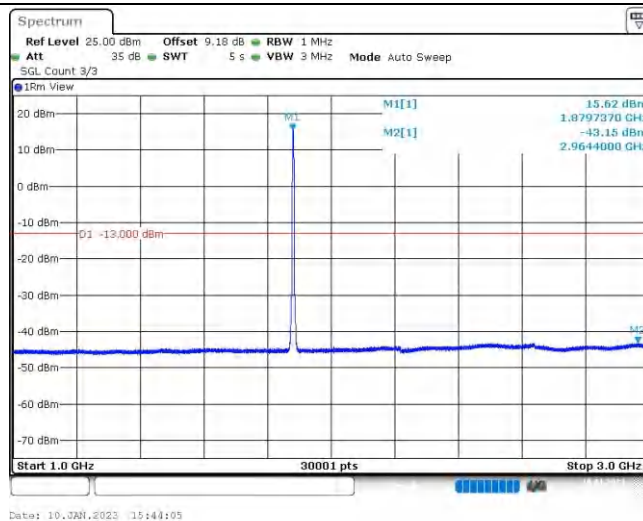
Band2-9400-0.15~30MHz



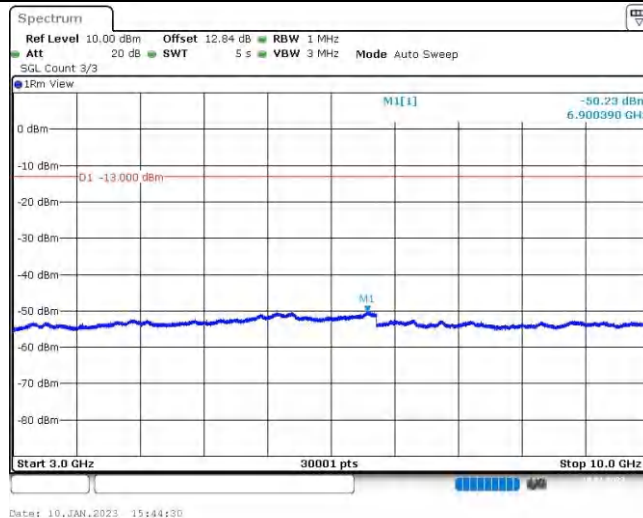
Band2-9400-30~1000MHz



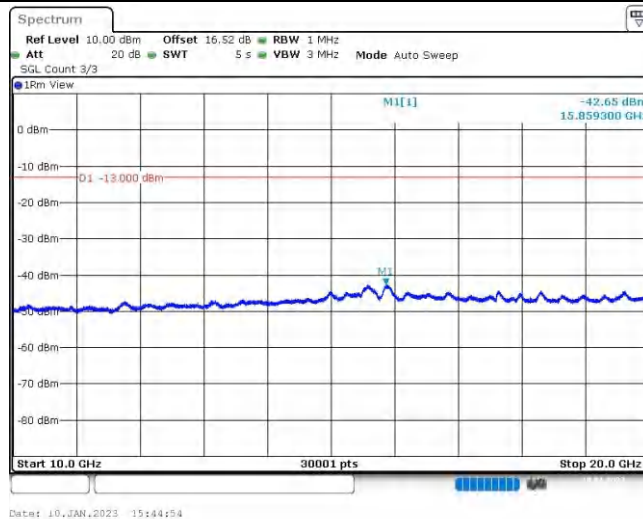
Band2-9400-1000~3000MHz



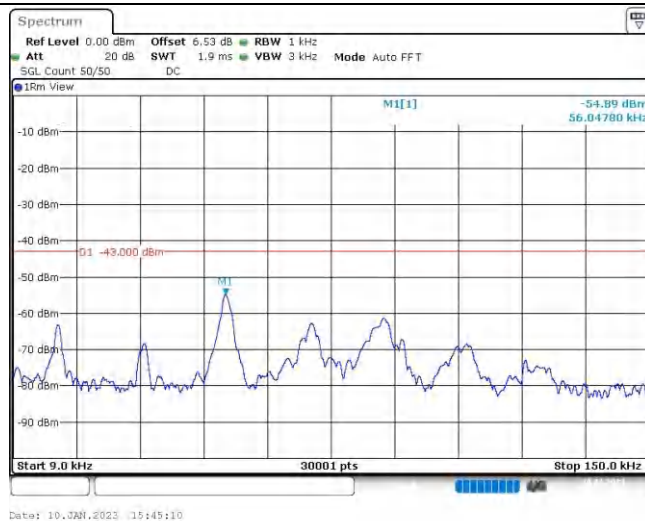
Band2-9400-3000~10000MHz



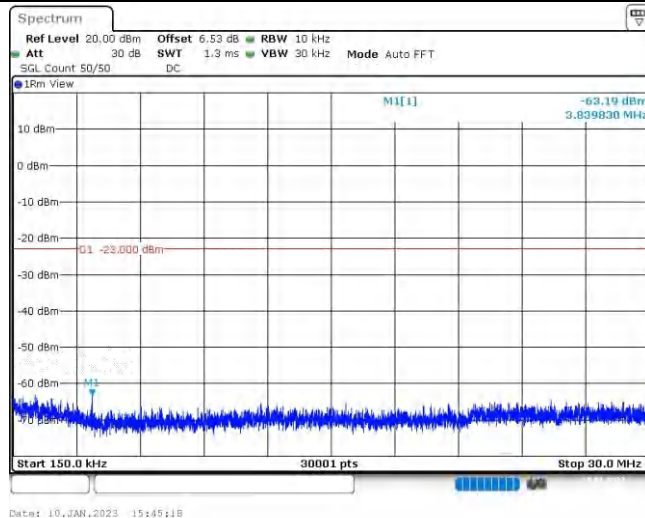
Band2-9400-10000~20000MHz



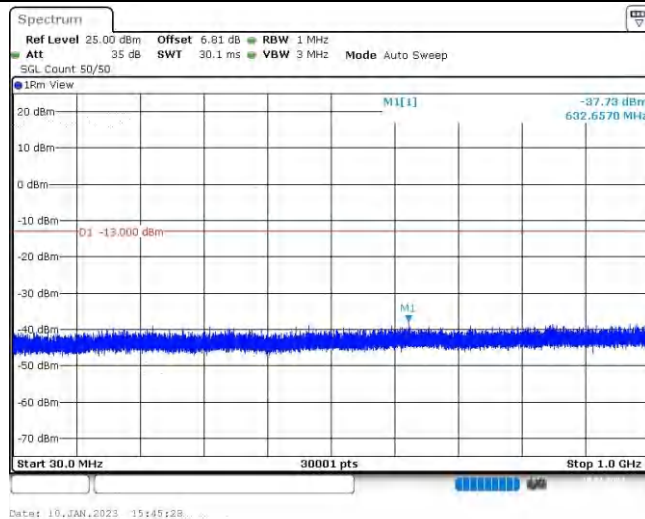
Band2-9538-0.009~0.15MHz



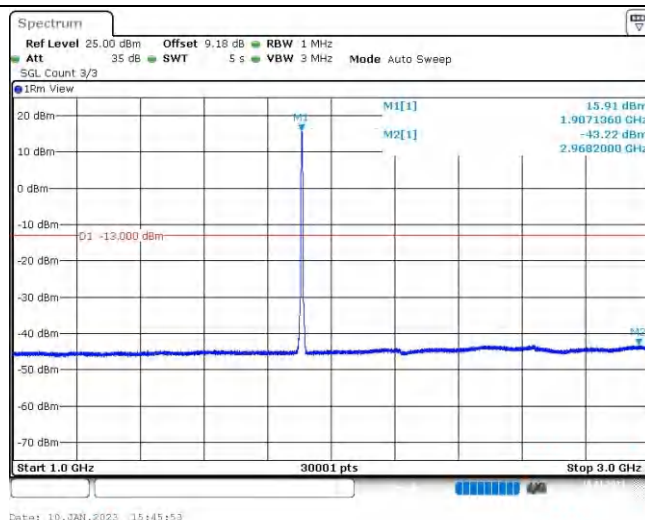
Band2-9538-0.15~30MHz



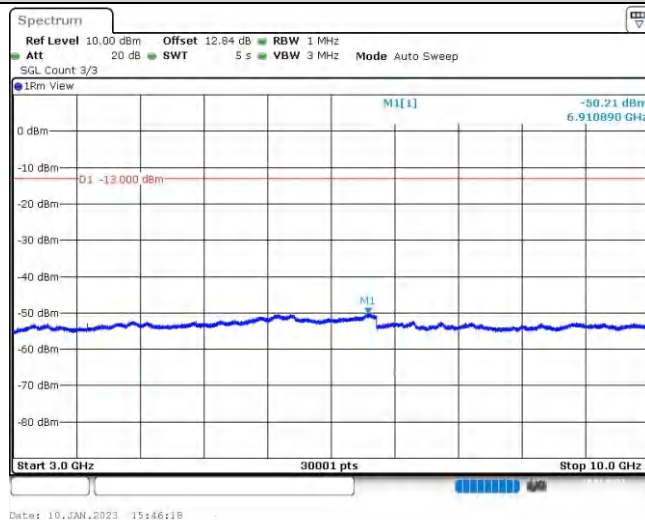
Band2-9538-30~1000MHz



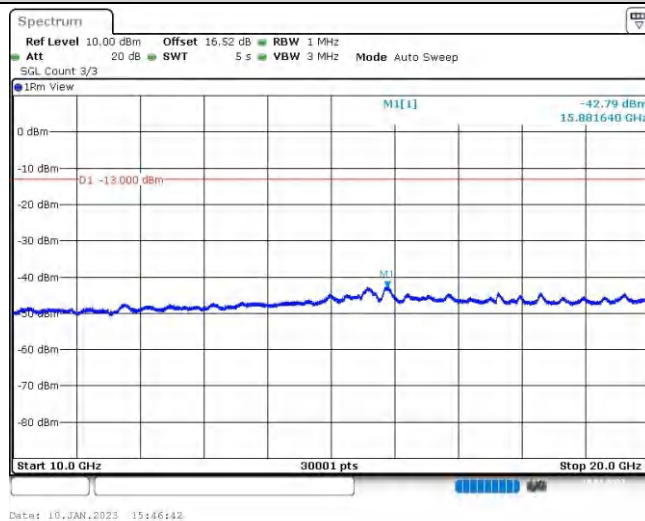
Band2-9538-1000~3000MHz



Band2-9538-3000~10000MHz



Band2-9538-10000~20000MHz



APPENDIX A.6: FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	-11.48	-0.006197	±2.5	PASS
Band2	9262	VN	NT	-14.86	-0.008022	±2.5	PASS
Band2	9262	VH	NT	-14.54	-0.007849	±2.5	PASS
Band2	9400	VL	NT	-12.68	-0.006745	±2.5	PASS
Band2	9400	VN	NT	-13.62	-0.007245	±2.5	PASS
Band2	9400	VH	NT	-8.90	-0.004734	±2.5	PASS
Band2	9538	VL	NT	-14.42	-0.007559	±2.5	PASS
Band2	9538	VN	NT	-13.58	-0.007119	±2.5	PASS
Band2	9538	VH	NT	-11.24	-0.005892	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	-11.19	-0.006041	±2.5	PASS
Band2	9262	NV	-20	-14.61	-0.007887	±2.5	PASS
Band2	9262	NV	0	-10.23	-0.005523	±2.5	PASS
Band2	9262	NV	10	-13.95	-0.007531	±2.5	PASS
Band2	9262	NV	20	-10.54	-0.005690	±2.5	PASS
Band2	9262	NV	30	-12.40	-0.006694	±2.5	PASS
Band2	9262	NV	40	-12.32	-0.006651	±2.5	PASS
Band2	9262	NV	50	-11.84	-0.006392	±2.5	PASS
Band2	9262	NV	55	-14.63	-0.007898	±2.5	PASS
Band2	9400	NV	-30	-11.34	-0.006032	±2.5	PASS
Band2	9400	NV	-20	-11.75	-0.006250	±2.5	PASS
Band2	9400	NV	0	-13.78	-0.007330	±2.5	PASS
Band2	9400	NV	10	-12.75	-0.006782	±2.5	PASS
Band2	9400	NV	20	-7.60	-0.004043	±2.5	PASS
Band2	9400	NV	30	-9.16	-0.004872	±2.5	PASS
Band2	9400	NV	40	-8.53	-0.004537	±2.5	PASS
Band2	9400	NV	50	-10.12	-0.005383	±2.5	PASS
Band2	9400	NV	55	-11.42	-0.006074	±2.5	PASS
Band2	9538	NV	-30	-12.34	-0.006469	±2.5	PASS
Band2	9538	NV	-20	-13.36	-0.007004	±2.5	PASS
Band2	9538	NV	0	-13.04	-0.006836	±2.5	PASS
Band2	9538	NV	10	-11.23	-0.005887	±2.5	PASS
Band2	9538	NV	20	-14.33	-0.007512	±2.5	PASS
Band2	9538	NV	30	-14.42	-0.007559	±2.5	PASS
Band2	9538	NV	40	-9.93	-0.005205	±2.5	PASS
Band2	9538	NV	50	-11.36	-0.005955	±2.5	PASS
Band2	9538	NV	55	-13.40	-0.007025	±2.5	PASS

APPENDIX B: TEST RESULTS FOR UTRA OPERATING BAND 4

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APPENDIX B.1: EFFECTIVE (ISOTROPIC) RADIATED POWER

Test Result

WCDMA

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	23.18	30	PASS
Band4	1413	23.14	30	PASS
Band4	1513	23.09	30	PASS

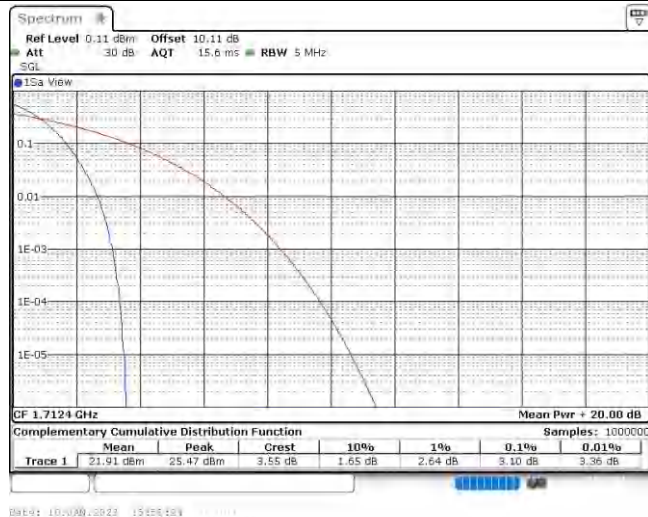
APPENDIX B.2: PEAK-TO AVERAGE RATIO

Test Result

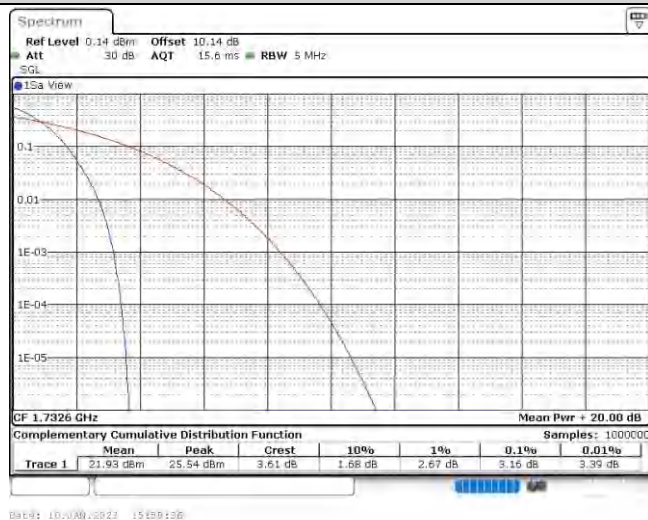
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	3.1	13	PASS
Band4	1413	3.16	13	PASS
Band4	1513	3.1	13	PASS

Test Graphs

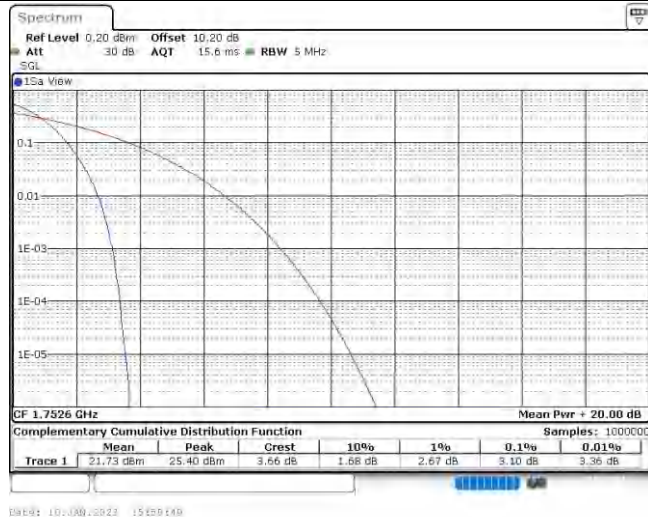
Band4-1312



Band4-1413



Band4-1513



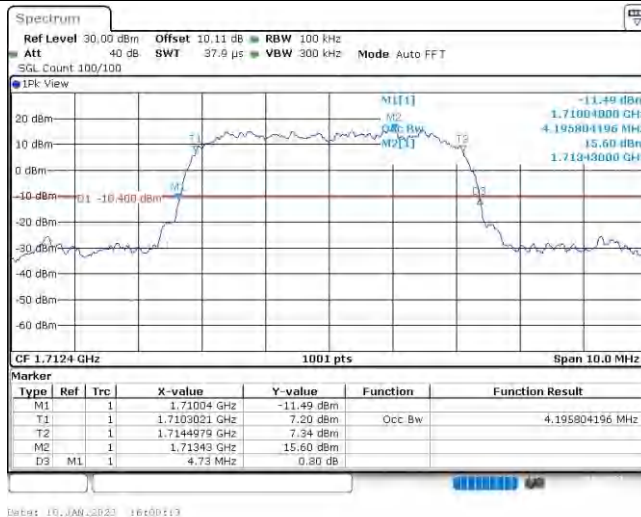
APPENDIX B.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

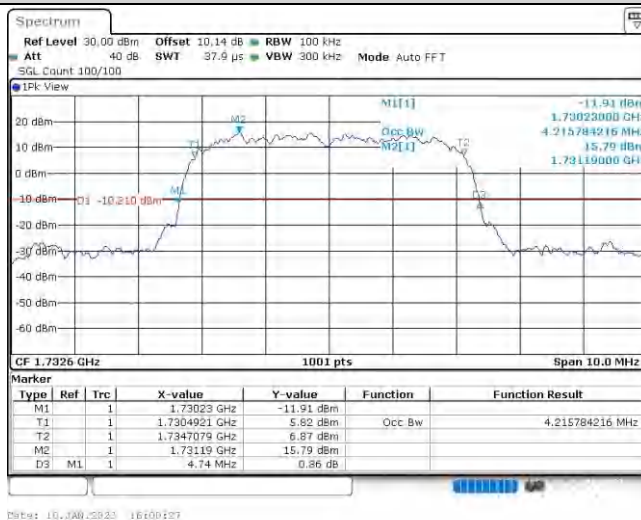
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	4.196	4.73	---	PASS
Band4	1413	4.216	4.74	---	PASS
Band4	1513	4.176	4.71	---	PASS

Test Graphs

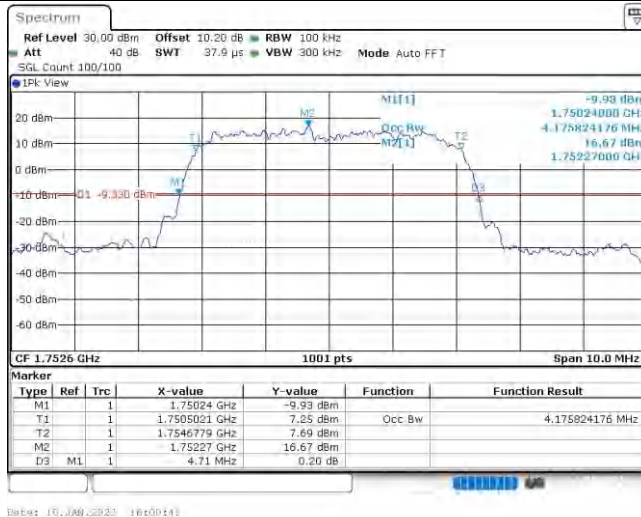
Band4-1312-4.73



Band4-1413-4.74



Band4-1513-4.71



APPENDIX B.4: BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.89	-22.03	-13	PASS
Band4	1513	1755.12	-21.52	-13	PASS

Test Graphs



APPENDIX B.5: CONDUCTED SPURIOUS EMISSIONS

Test Result

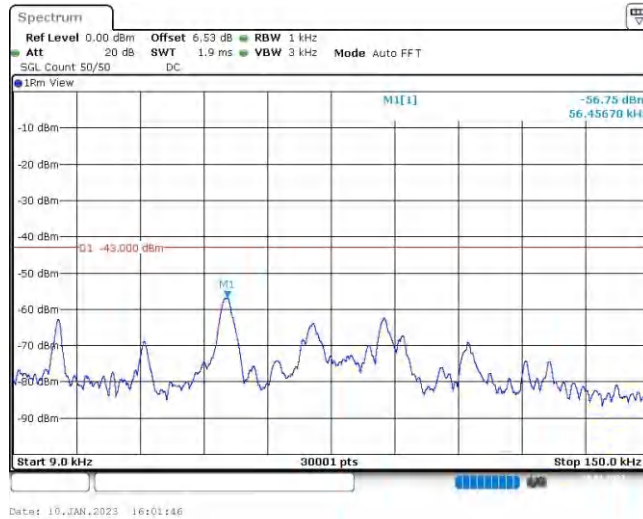
General:

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.06	-56.75	-43	PASS
Band4	1312	0.15~30MHz	0.17	-62.58	-33	PASS
Band4	1312	30~1000MHz	963.35	-36.99	-13	PASS
Band4	1312	1000~3000MHz	2941.07	-43.18	-13	PASS
Band4	1312	3000~10000MHz	6910.65	-50.25	-13	PASS
Band4	1312	10000~20000MHz	15854.3	-42.71	-13	PASS
Band4	1413	0.009~0.15MHz	0.06	-58.11	-43	PASS
Band4	1413	0.15~30MHz	0.16	-63.08	-33	PASS
Band4	1413	30~1000MHz	974.18	-37.19	-13	PASS
Band4	1413	1000~3000MHz	2966.53	-42.91	-13	PASS
Band4	1413	3000~10000MHz	6928.15	-50.08	-13	PASS
Band4	1413	10000~20000MHz	15860.97	-42.69	-13	PASS
Band4	1513	0.009~0.15MHz	0.06	-56.42	-43	PASS
Band4	1513	0.15~30MHz	0.21	-60.21	-33	PASS
Band4	1513	30~1000MHz	921.64	-38.46	-13	PASS
Band4	1513	1000~3000MHz	2637.13	-43.09	-13	PASS
Band4	1513	3000~10000MHz	6076.05	-50.27	-13	PASS
Band4	1513	10000~20000MHz	15571.65	-42.79	-13	PASS

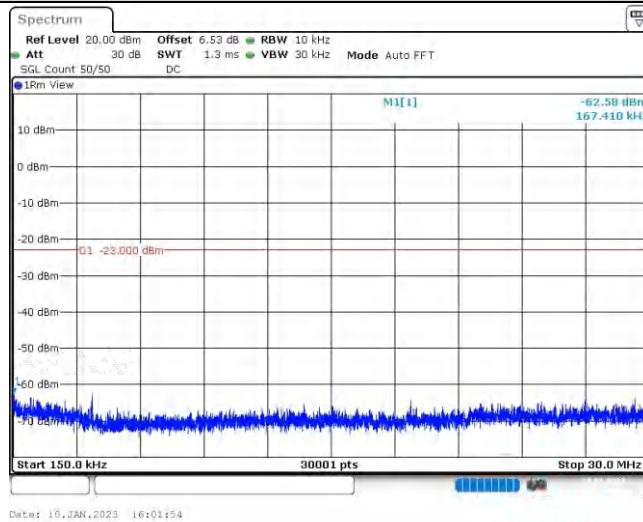
Test Graphs

General:

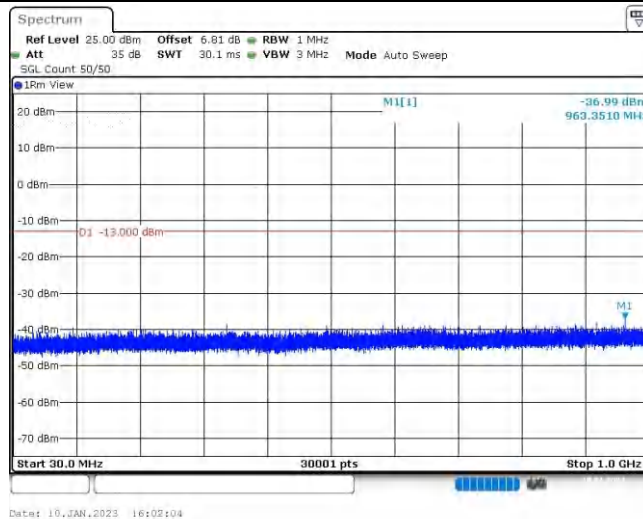
Band4-1312-0.009~0.15MHz



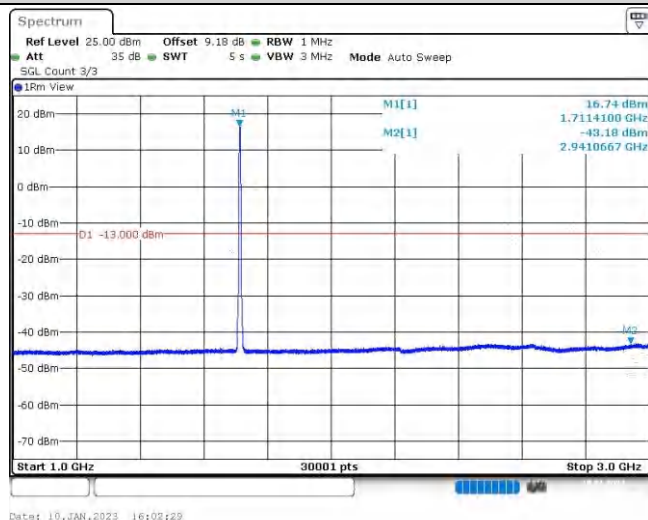
Band4-1312-0.15~30MHz



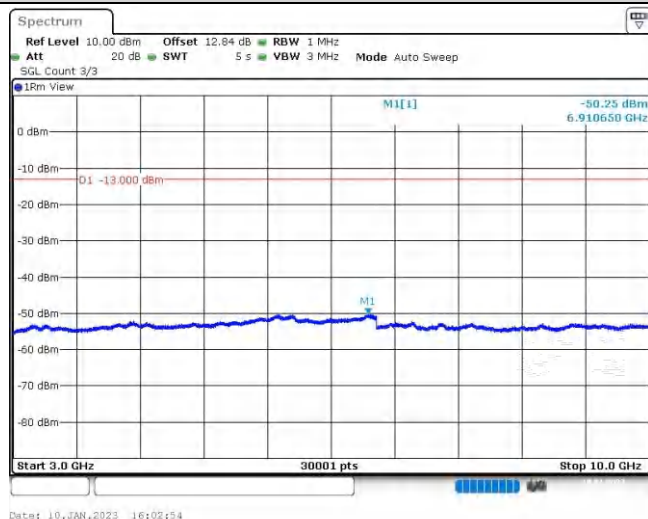
Band4-1312-30~1000MHz



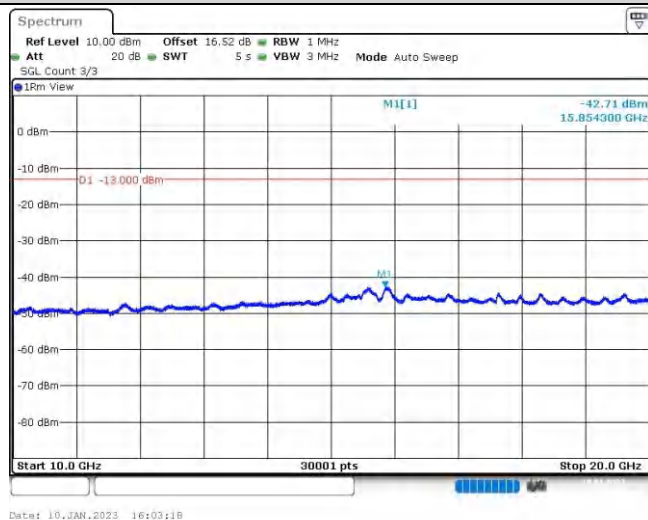
Band4-1312-1000~3000MHz



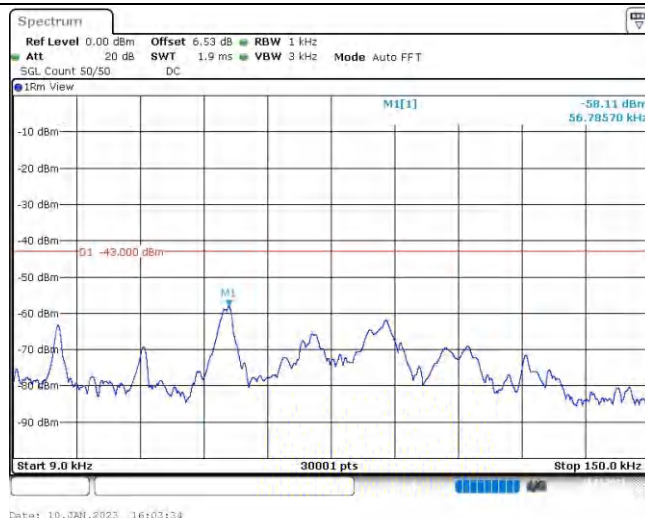
Band4-1312-3000~10000MHz



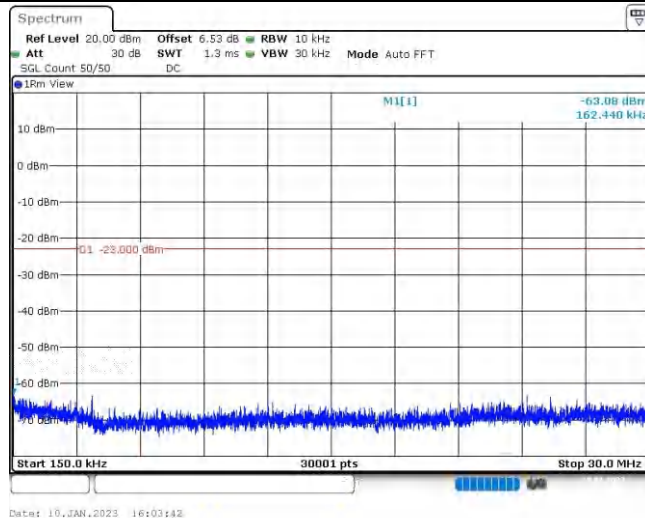
Band4-1312-10000~20000MHz



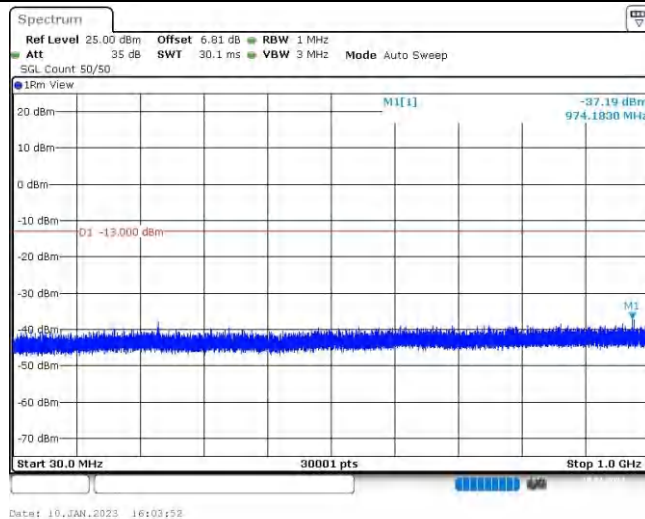
Band4-1413-0.009~0.15MHz



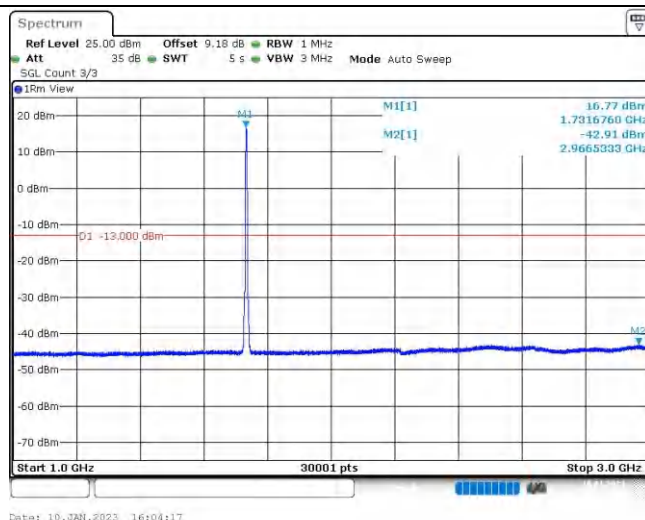
Band4-1413-0.15~30MHz



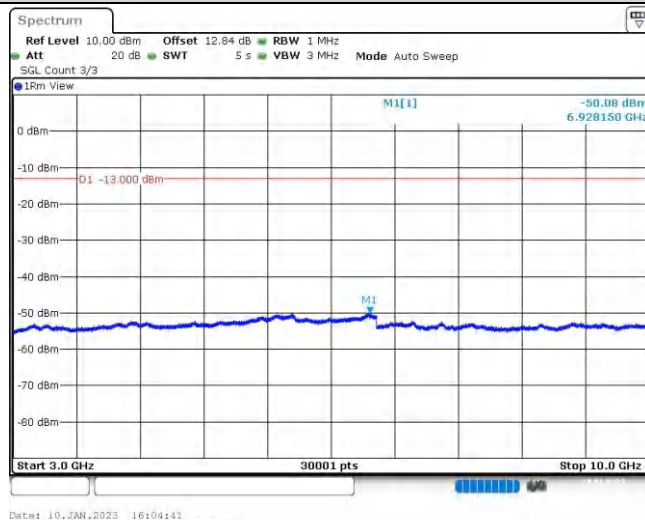
Band4-1413-30~1000MHz



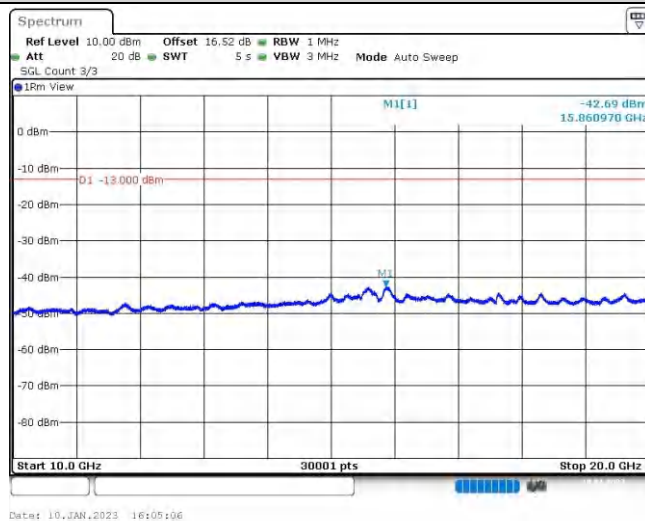
Band4-1413-1000~3000MHz



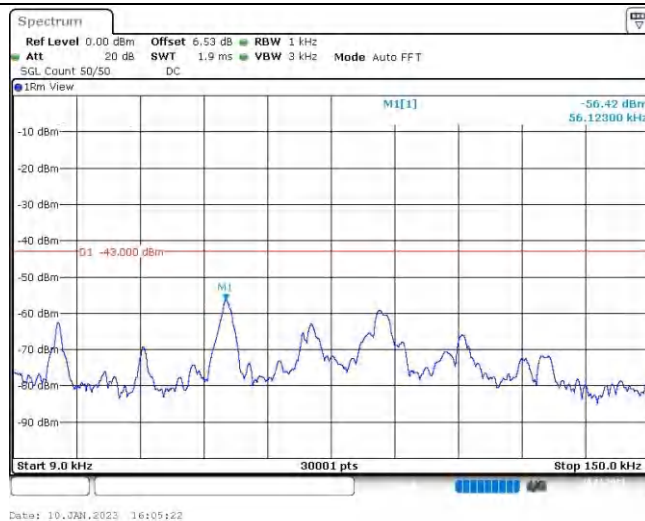
Band4-1413-3000~10000MHz



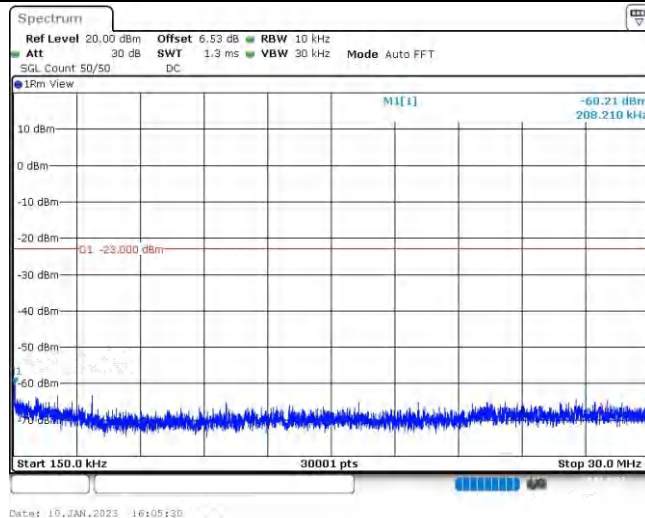
Band4-1413-10000~20000MHz



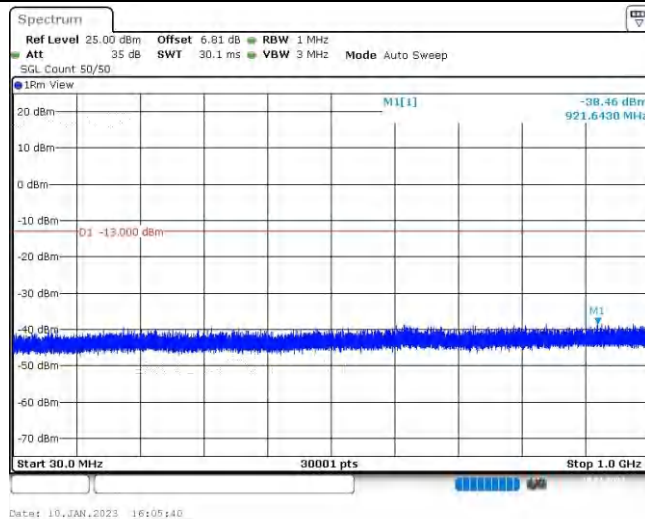
Band4-1513-0.009~0.15MHz



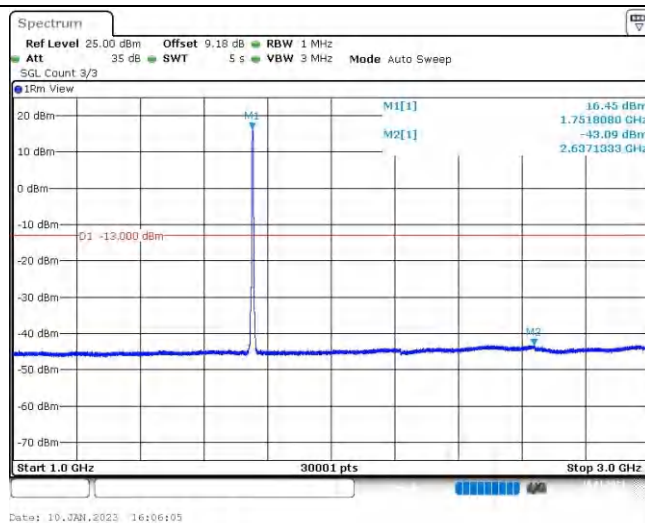
Band4-1513-0.15~30MHz



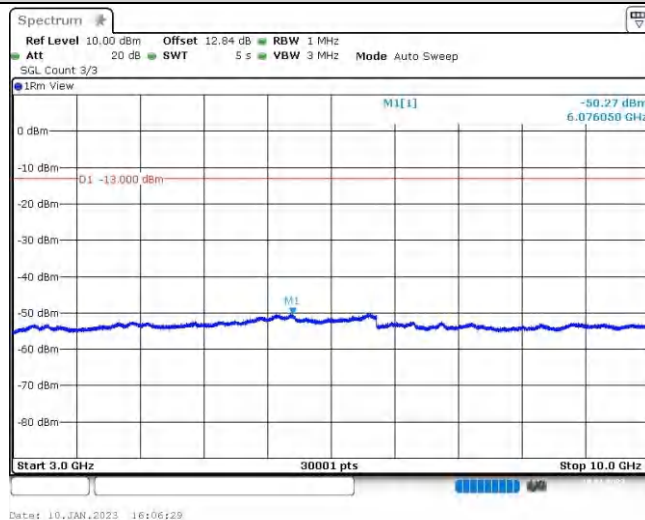
Band4-1513-30~1000MHz



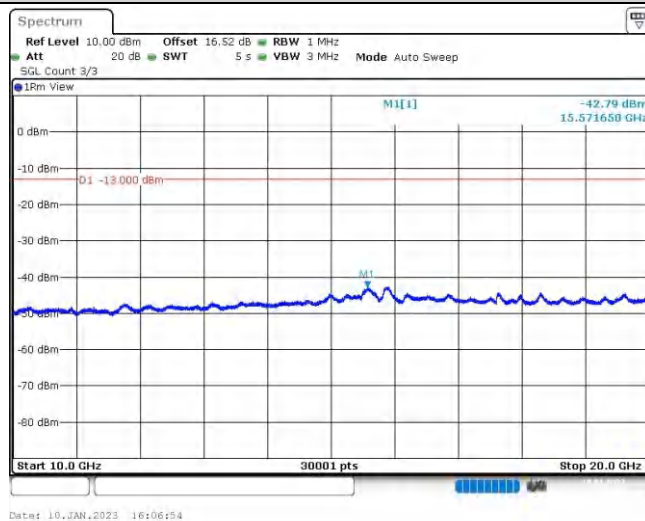
Band4-1513-1000~3000MHz



Band4-1513-3000~10000MHz



Band4-1513-10000~20000MHz



APPENDIX B.6: FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	-9.83	-0.005740	±2.5	PASS
Band4	1312	VN	NT	-12.26	-0.007160	±2.5	PASS
Band4	1312	VH	NT	-9.65	-0.005635	±2.5	PASS
Band4	1413	VL	NT	-14.68	-0.008473	±2.5	PASS
Band4	1413	VN	NT	-15.08	-0.008704	±2.5	PASS
Band4	1413	VH	NT	-14.71	-0.008490	±2.5	PASS
Band4	1513	VL	NT	-11.00	-0.006276	±2.5	PASS
Band4	1513	VN	NT	-11.33	-0.006465	±2.5	PASS
Band4	1513	VH	NT	-8.58	-0.004896	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	-16.18	-0.009449	±2.5	PASS
Band4	1312	NV	-20	-11.70	-0.006833	±2.5	PASS
Band4	1312	NV	0	-14.84	-0.008666	±2.5	PASS
Band4	1312	NV	10	-15.91	-0.009291	±2.5	PASS
Band4	1312	NV	20	-15.87	-0.009268	±2.5	PASS
Band4	1312	NV	30	-14.15	-0.008263	±2.5	PASS
Band4	1312	NV	40	-12.89	-0.007527	±2.5	PASS
Band4	1312	NV	50	-15.71	-0.009174	±2.5	PASS
Band4	1312	NV	55	-10.14	-0.005922	±2.5	PASS
Band4	1413	NV	-30	-13.39	-0.007728	±2.5	PASS
Band4	1413	NV	-20	-13.34	-0.007699	±2.5	PASS
Band4	1413	NV	0	-12.74	-0.007353	±2.5	PASS
Band4	1413	NV	10	-12.18	-0.007030	±2.5	PASS
Band4	1413	NV	20	-11.17	-0.006447	±2.5	PASS
Band4	1413	NV	30	-10.49	-0.006054	±2.5	PASS
Band4	1413	NV	40	-9.96	-0.005749	±2.5	PASS
Band4	1413	NV	50	-15.25	-0.008802	±2.5	PASS
Band4	1413	NV	55	-15.16	-0.008750	±2.5	PASS
Band4	1513	NV	-30	-7.22	-0.004120	±2.5	PASS
Band4	1513	NV	-20	-10.39	-0.005928	±2.5	PASS
Band4	1513	NV	0	-11.22	-0.006402	±2.5	PASS
Band4	1513	NV	10	-9.66	-0.005512	±2.5	PASS
Band4	1513	NV	20	-9.31	-0.005312	±2.5	PASS
Band4	1513	NV	30	-10.05	-0.005734	±2.5	PASS
Band4	1513	NV	40	-10.71	-0.006111	±2.5	PASS
Band4	1513	NV	50	-7.65	-0.004365	±2.5	PASS
Band4	1513	NV	55	-7.20	-0.004108	±2.5	PASS

APPENDIX C: TEST RESULTS FOR UTRA OPERATING BAND 5

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APPENDIX C.1: EFFECTIVE (ISOTROPIC) RADIATED POWER

Test Result

WCDMA

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band5	4132	23.24	38.5	PASS
Band5	4182	23.54	38.5	PASS
Band5	4233	23.68	38.5	PASS

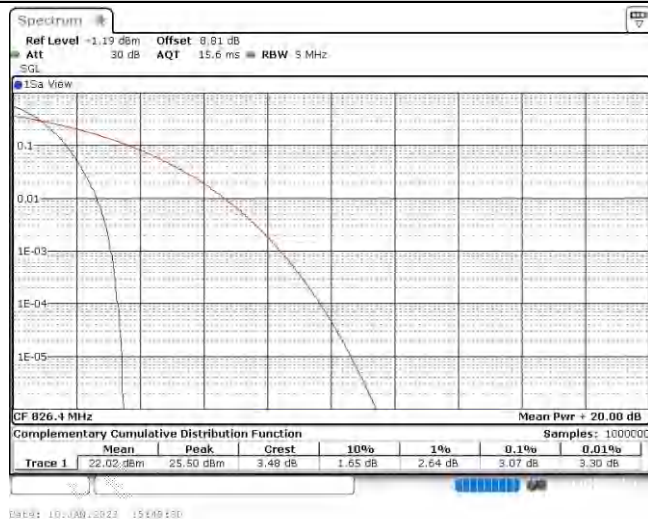
APPENDIX C.2: PEAK-TO AVERAGE RATIO

Test Result

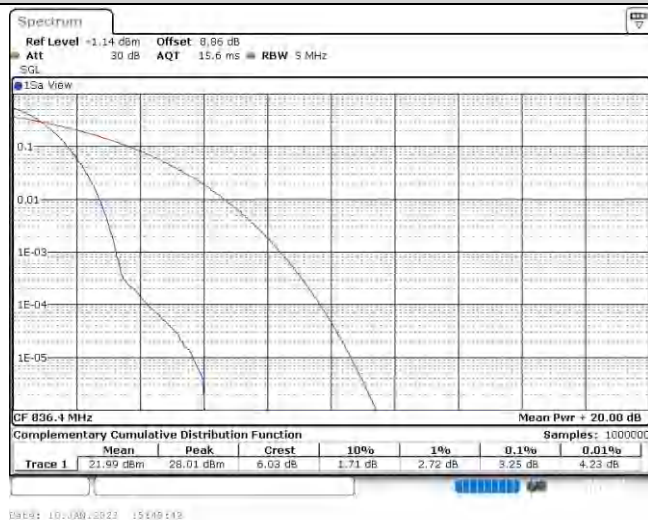
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.07	13	PASS
Band5	4182	3.25	13	PASS
Band5	4233	3.16	13	PASS

Test Graphs

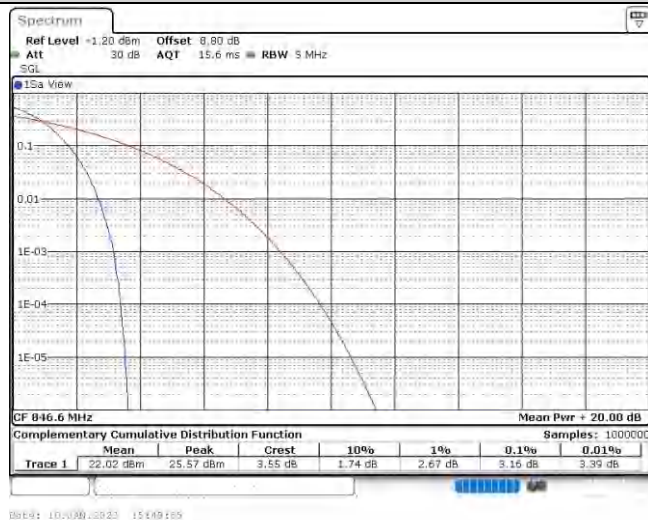
Band5-4132



Band5-4182



Band5-4233



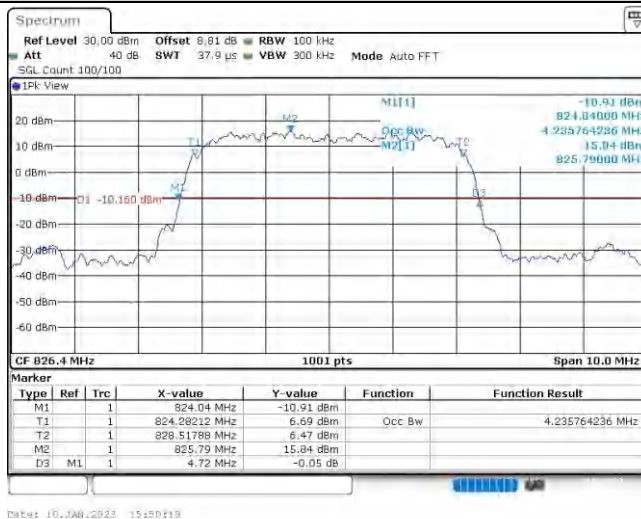
APPENDIX C.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

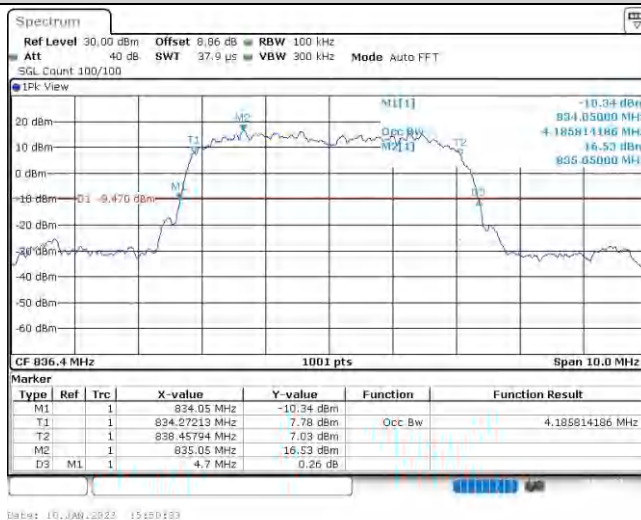
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band5	4132	4.236	4.72	---	PASS
Band5	4182	4.186	4.70	---	PASS
Band5	4233	4.166	4.72	---	PASS

Test Graphs

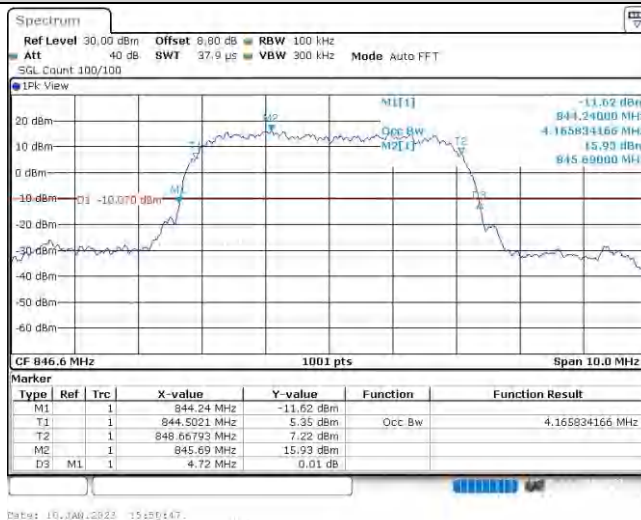
Band5-4132-4.72



Band5-4182-4.70



Band5-4233-4.72



APPENDIX C.4: BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.86	-22.24	-13	PASS
Band5	4233	849.09	-23.50	-13	PASS

Test Graphs



APPENDIX C.5: CONDUCTED SPURIOUS EMISSIONS

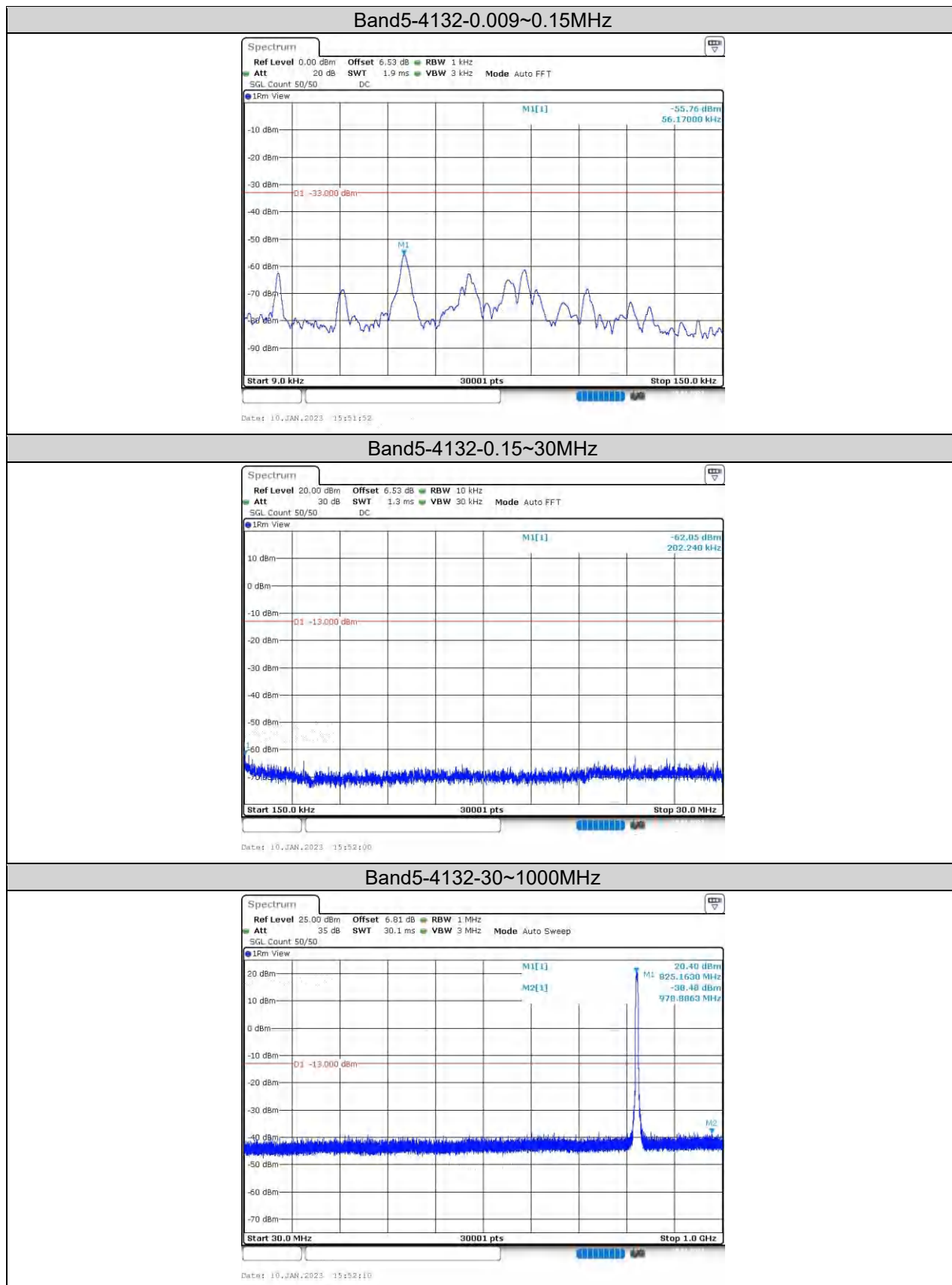
Test Result

General:

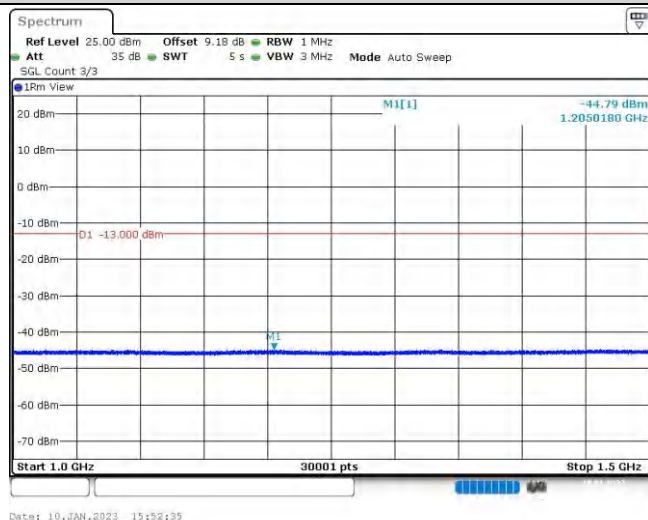
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	0.009~0.15MHz	0.06	-55.76	-33	PASS
Band5	4132	0.15~30MHz	0.2	-62.05	-23	PASS
Band5	4132	30~1000MHz	978.89	-38.48	-13	PASS
Band5	4132	1000~1500MHz	1205.02	-44.79	-13	PASS
Band5	4132	1500~3000MHz	2967.63	-41.21	-13	PASS
Band5	4132	3000~10000MHz	6908.79	-50.26	-13	PASS
Band5	4132	10000~18000MHz	15858.34	-47.59	-13	PASS
Band5	4182	0.009~0.15MHz	0.06	-54.19	-33	PASS
Band5	4182	0.15~30MHz	0.61	-62.97	-23	PASS
Band5	4182	30~1000MHz	951.95	-37.68	-13	PASS
Band5	4182	1000~1500MHz	1454.98	-44.69	-13	PASS
Band5	4182	1500~3000MHz	2954.18	-41.09	-13	PASS
Band5	4182	3000~10000MHz	6910.65	-50.2	-13	PASS
Band5	4182	10000~18000MHz	15866.87	-47.82	-13	PASS
Band5	4233	0.009~0.15MHz	0.06	-54.87	-33	PASS
Band5	4233	0.15~30MHz	0.62	-63.61	-23	PASS
Band5	4233	30~1000MHz	961.56	-38.42	-13	PASS
Band5	4233	1000~1500MHz	1452.09	-44.63	-13	PASS
Band5	4233	1500~3000MHz	2975.53	-41.18	-13	PASS
Band5	4233	3000~10000MHz	6909.25	-50.21	-13	PASS
Band5	4233	10000~18000MHz	15895.94	-47.62	-13	PASS

Test Graphs

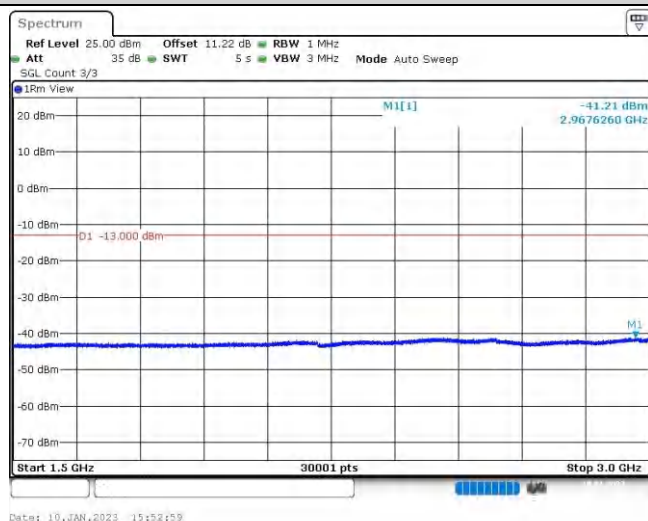
General:



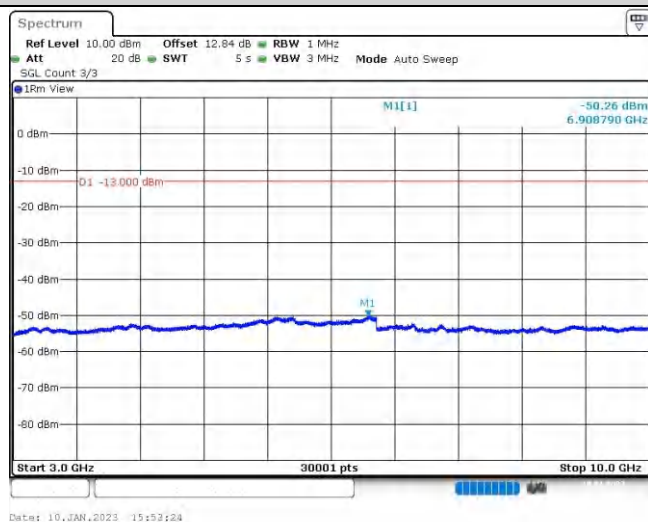
Band5-4132-1000~1500MHz



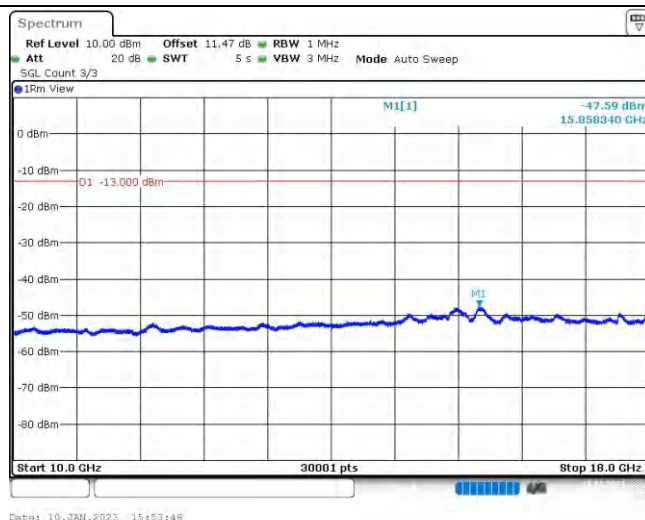
Band5-4132-1500~3000MHz



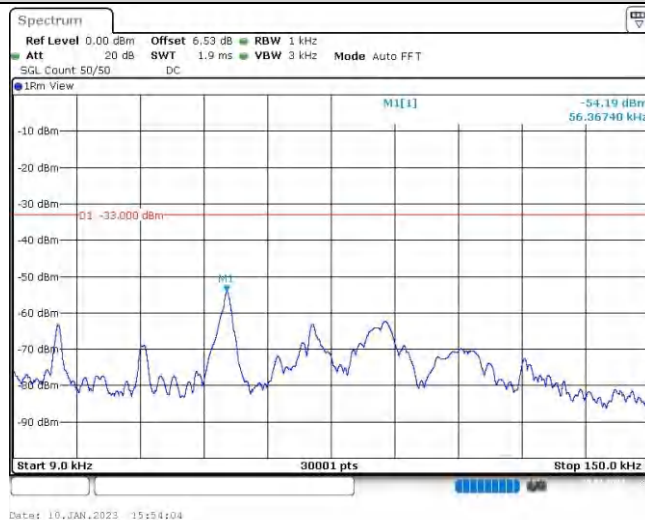
Band5-4132-3000~10000MHz



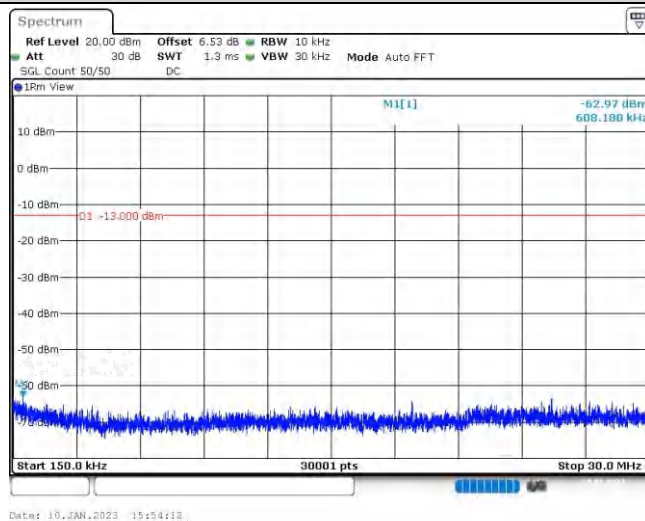
Band5-4132-10000~18000MHz



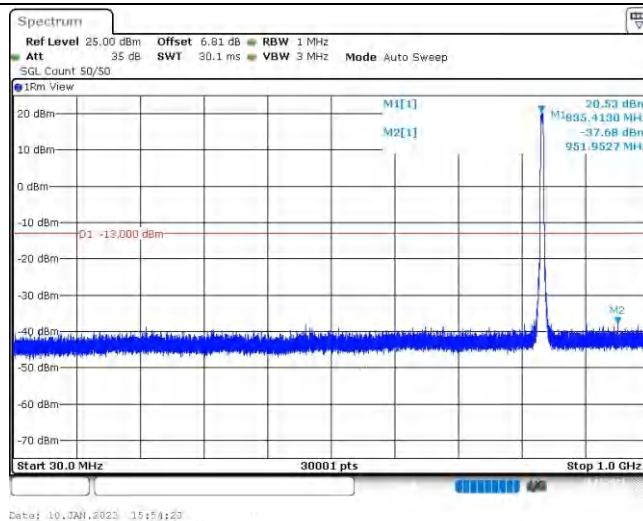
Band5-4182-0.009~0.15MHz



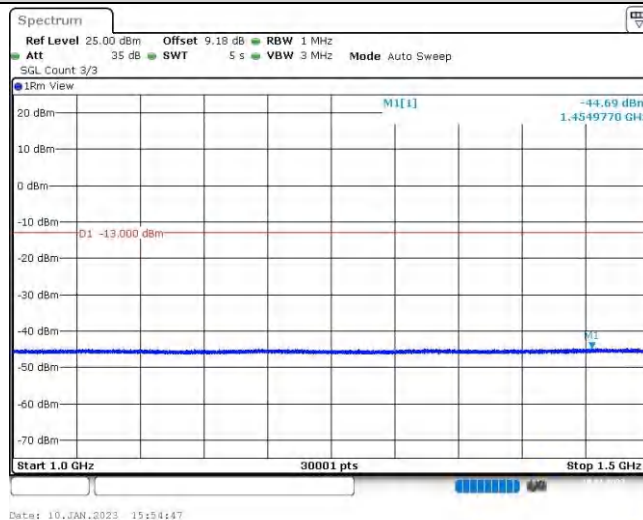
Band5-4182-0.15~30MHz



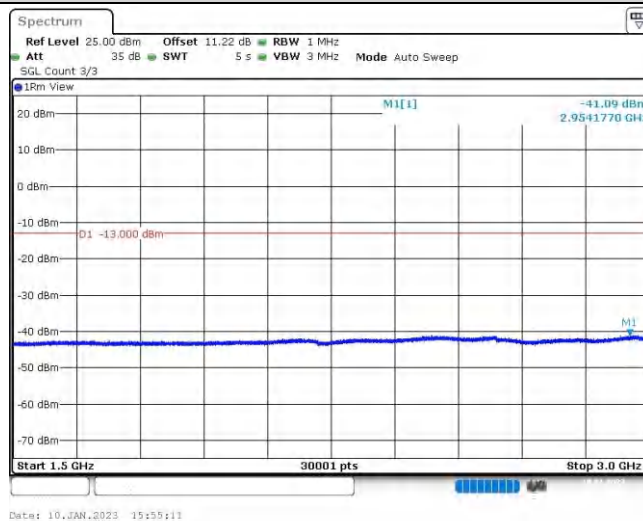
Band5-4182-30~1000MHz



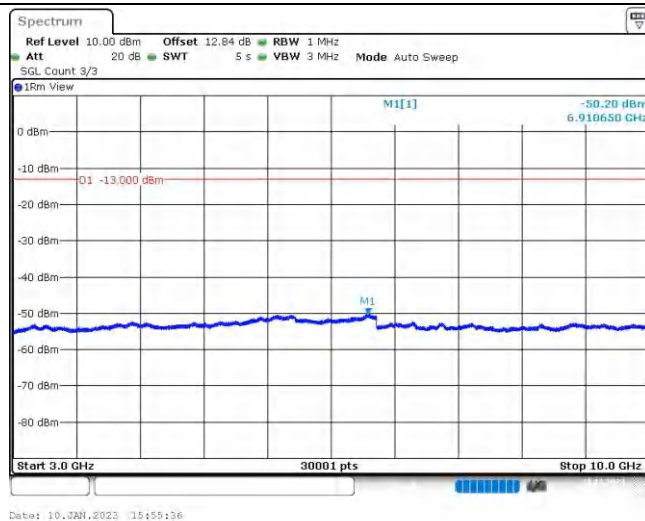
Band5-4182-1000~1500MHz



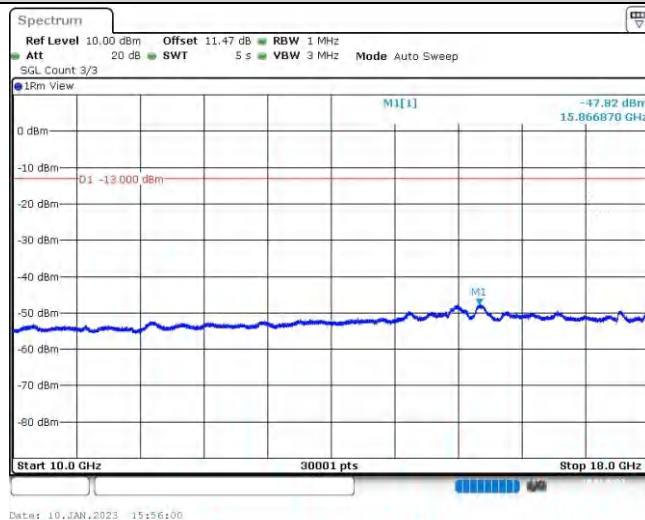
Band5-4182-1500~3000MHz



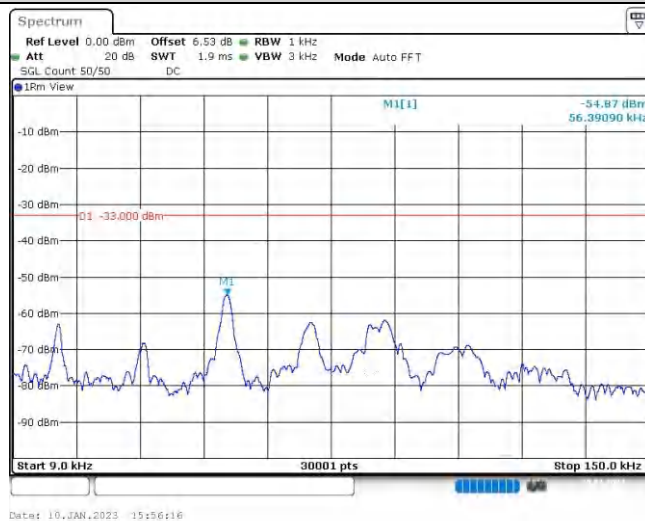
Band5-4182-3000~10000MHz



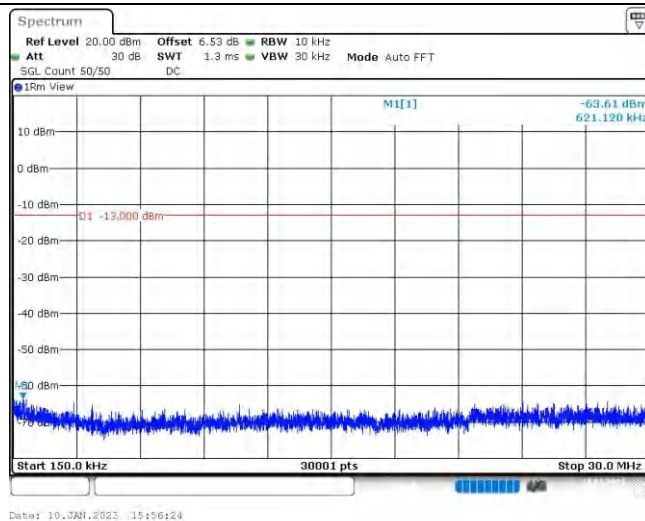
Band5-4182-10000~18000MHz



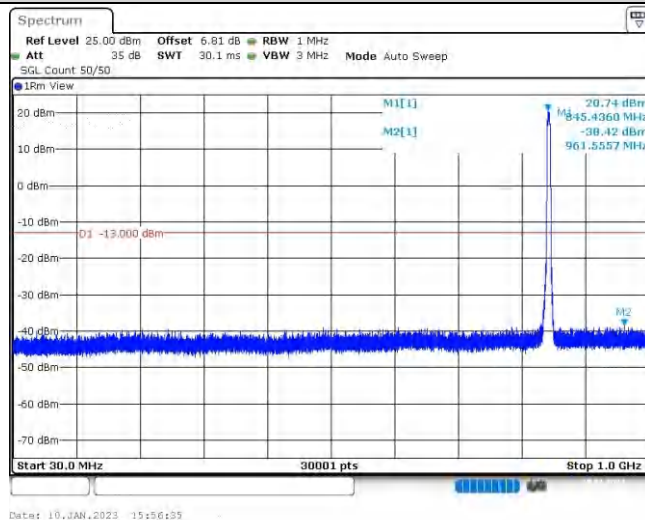
Band5-4233-0.009~0.15MHz



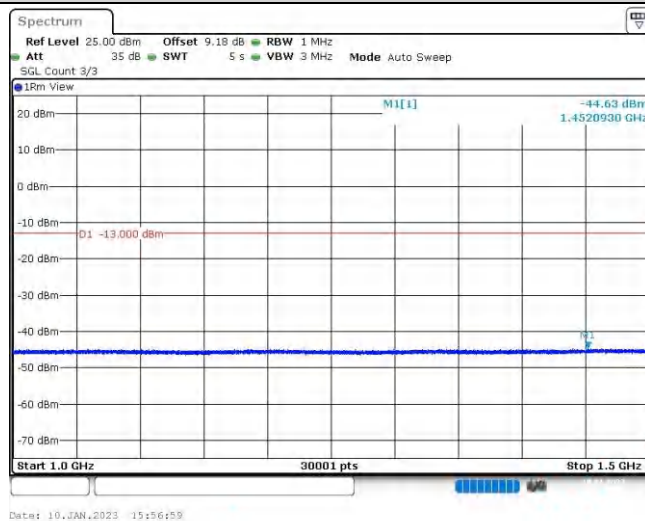
Band5-4233-0.15~30MHz



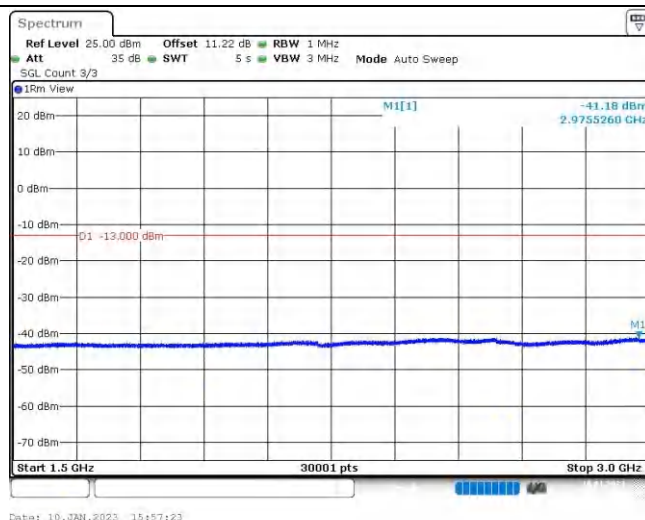
Band5-4233-30~1000MHz



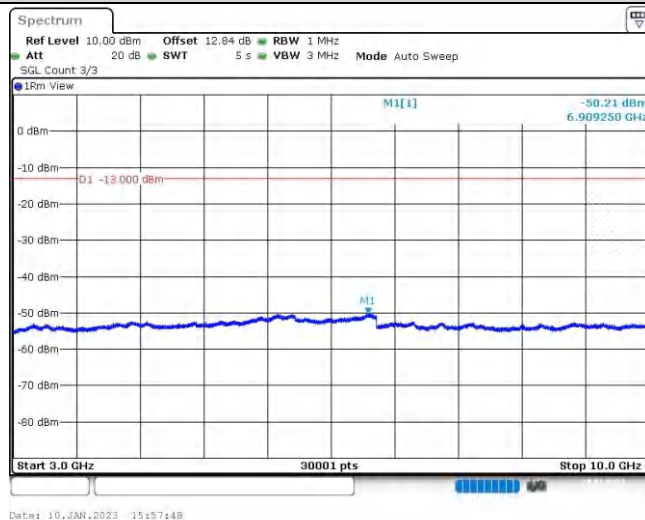
Band5-4233-1000~1500MHz



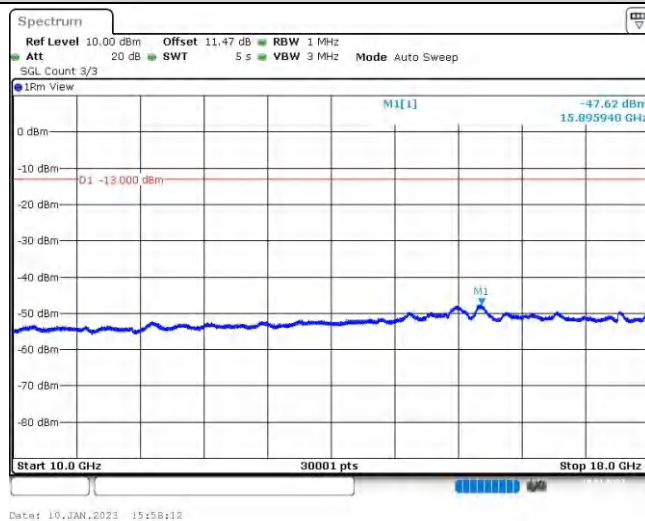
Band5-4233-1500~3000MHz



Band5-4233-3000~10000MHz



Band5-4233-10000~18000MHz



APPENDIX C.6: FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	-7.55	-0.009136	±2.5	PASS
Band5	4132	VN	NT	-8.15	-0.009862	±2.5	PASS
Band5	4132	VH	NT	-11.82	-0.014303	±2.5	PASS
Band5	4182	VL	NT	-10.26	-0.012267	±2.5	PASS
Band5	4182	VN	NT	-10.16	-0.012147	±2.5	PASS
Band5	4182	VH	NT	-11.45	-0.013690	±2.5	PASS
Band5	4233	VL	NT	-10.39	-0.012273	±2.5	PASS
Band5	4233	VN	NT	-10.26	-0.012119	±2.5	PASS
Band5	4233	VH	NT	-11.77	-0.013903	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	-12.79	-0.015477	±2.5	PASS
Band5	4132	NV	-20	-8.03	-0.009717	±2.5	PASS
Band5	4132	NV	0	-13.77	-0.016663	±2.5	PASS
Band5	4132	NV	10	-9.32	-0.011278	±2.5	PASS
Band5	4132	NV	20	-9.98	-0.012076	±2.5	PASS
Band5	4132	NV	30	-8.80	-0.010649	±2.5	PASS
Band5	4132	NV	40	-9.28	-0.011229	±2.5	PASS
Band5	4132	NV	50	-11.31	-0.013686	±2.5	PASS
Band5	4132	NV	55	-11.47	-0.013879	±2.5	PASS
Band5	4182	NV	-30	-11.73	-0.014024	±2.5	PASS
Band5	4182	NV	-20	-7.87	-0.009409	±2.5	PASS
Band5	4182	NV	0	-10.12	-0.012099	±2.5	PASS
Band5	4182	NV	10	-13.94	-0.016667	±2.5	PASS
Band5	4182	NV	20	-7.21	-0.008620	±2.5	PASS
Band5	4182	NV	30	-11.67	-0.013953	±2.5	PASS
Band5	4182	NV	40	-7.85	-0.009385	±2.5	PASS
Band5	4182	NV	50	-12.25	-0.014646	±2.5	PASS
Band5	4182	NV	55	-6.39	-0.007640	±2.5	PASS
Band5	4233	NV	-30	-9.88	-0.011670	±2.5	PASS
Band5	4233	NV	-20	-11.80	-0.013938	±2.5	PASS
Band5	4233	NV	0	-10.62	-0.012544	±2.5	PASS
Band5	4233	NV	10	-11.06	-0.013064	±2.5	PASS
Band5	4233	NV	20	-9.13	-0.010784	±2.5	PASS
Band5	4233	NV	30	-9.18	-0.010843	±2.5	PASS
Band5	4233	NV	40	-12.06	-0.014245	±2.5	PASS
Band5	4233	NV	50	-10.98	-0.012970	±2.5	PASS
Band5	4233	NV	55	-11.87	-0.014021	±2.5	PASS