

Appendix for WCDMA Band 4

Product Name: Smart Phone

Model No: Black G4

AppendixA: Average Power Output Data

Test Result

WCDMA - Average Power (dBm)			
Band	WCDMA Band IV		
Channel	1313	1413	1512
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2k	22.15	22.09	22.11
HSDPA Subtest-1	20.58	20.54	20.53
HSDPA Subtest-2	20.08	20.03	20.09
HSDPA Subtest-3	19.87	19.77	19.76
HSDPA Subtest-4	19.51	19.44	19.33
HSUPA Subtest-1	20.17	20.18	20.12
HSUPA Subtest-2	19.71	19.63	19.59
HSUPA Subtest-3	19.44	19.41	19.37
HSUPA Subtest-4	19.15	19.16	19.22
HSUPA Subtest-5	18.76	18.86	18.86

AppendixB:Peak-to-Average Ratio

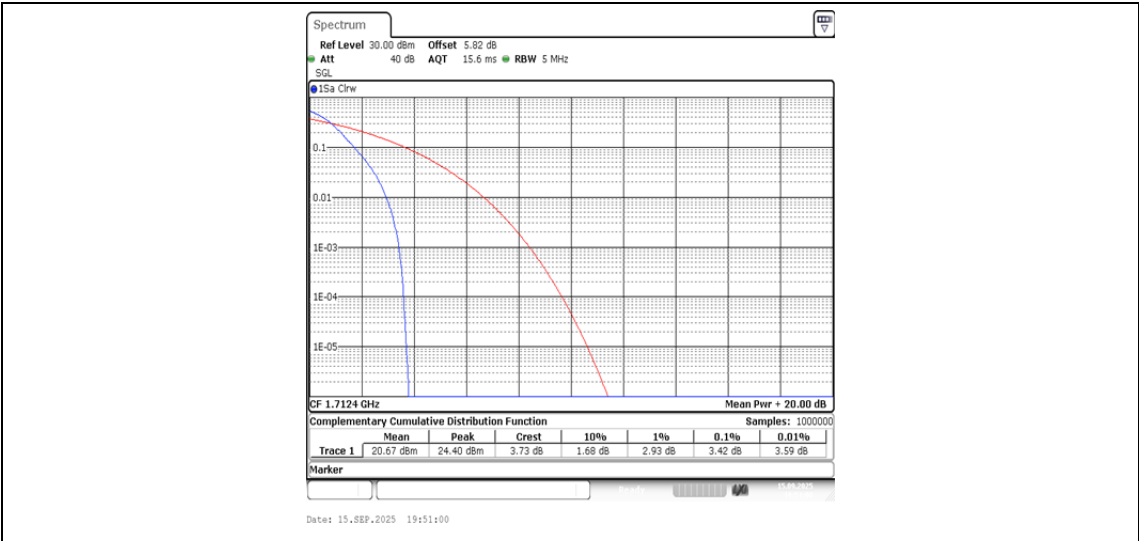
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.42	13	PASS
Band4	1413	3.33	13	PASS
Band4	1513	3.39	13	PASS

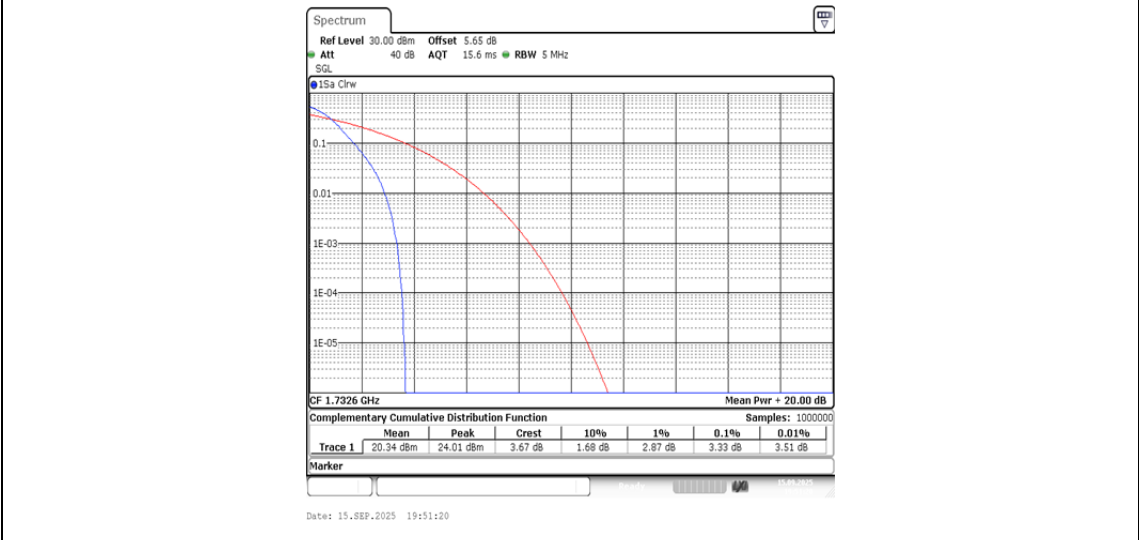
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3.42	13	PASS
Band4	1312	2	3.62	13	PASS
Band4	1312	3	3.83	13	PASS
Band4	1312	4	3.86	13	PASS
Band4	1413	1	3.39	13	PASS
Band4	1413	2	3.57	13	PASS
Band4	1413	3	3.8	13	PASS
Band4	1413	4	3.86	13	PASS
Band4	1513	1	3.39	13	PASS
Band4	1513	2	3.62	13	PASS
Band4	1513	3	3.8	13	PASS
Band4	1513	4	3.83	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	4.78	13	PASS
Band4	1312	2	5.86	13	PASS
Band4	1312	3	5.45	13	PASS
Band4	1312	4	5.88	13	PASS
Band4	1312	5	4.55	13	PASS
Band4	1413	1	4.72	13	PASS
Band4	1413	2	5.77	13	PASS
Band4	1413	3	5.3	13	PASS
Band4	1413	4	5.8	13	PASS
Band4	1413	5	4.52	13	PASS
Band4	1513	1	4.72	13	PASS
Band4	1513	2	5.86	13	PASS
Band4	1513	3	5.39	13	PASS
Band4	1513	4	5.86	13	PASS
Band4	1513	5	4.52	13	PASS

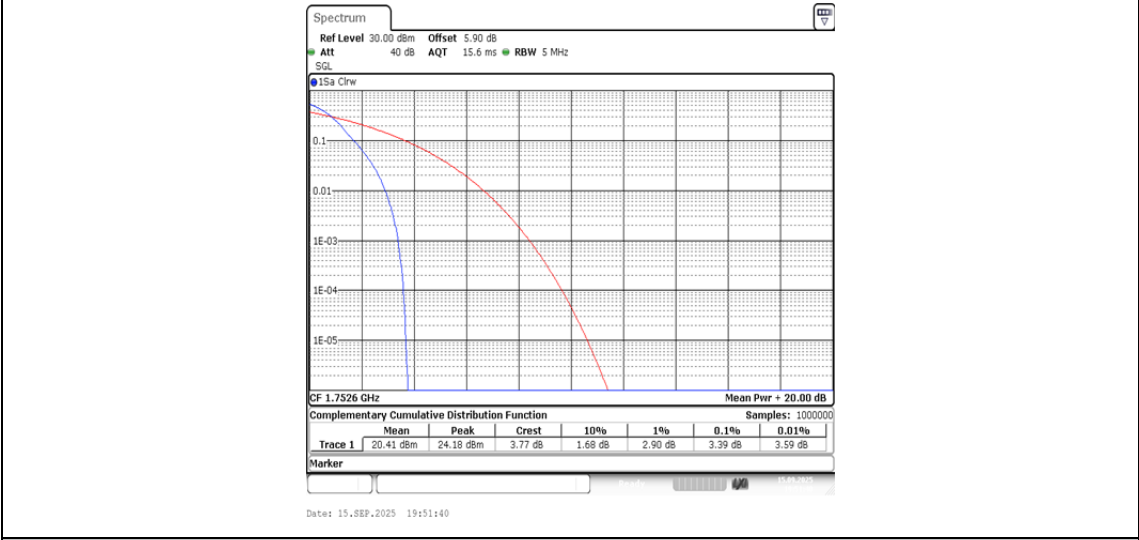
Test Graphs



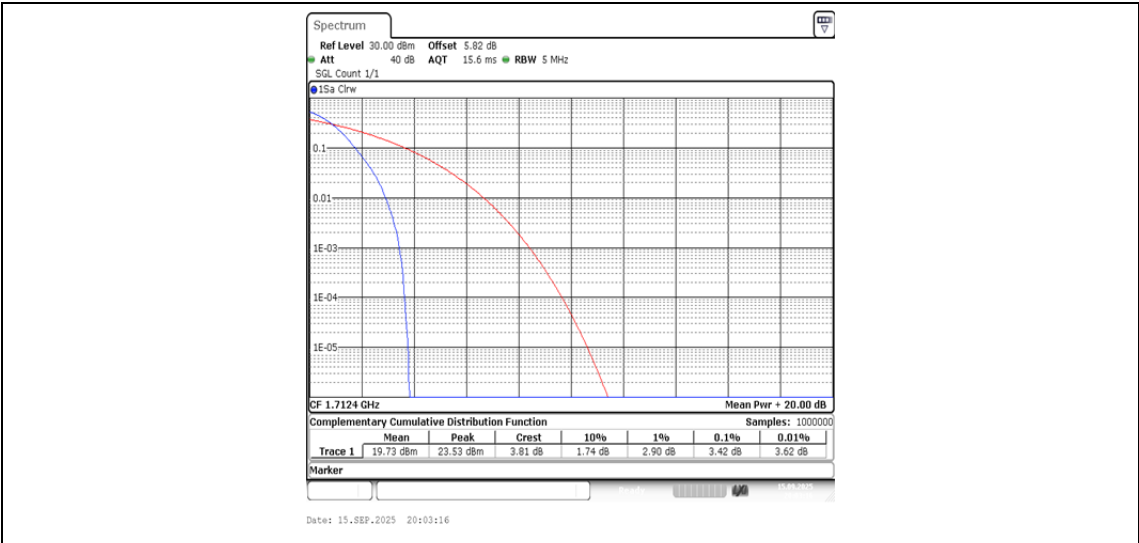
Band4-1312-PASS



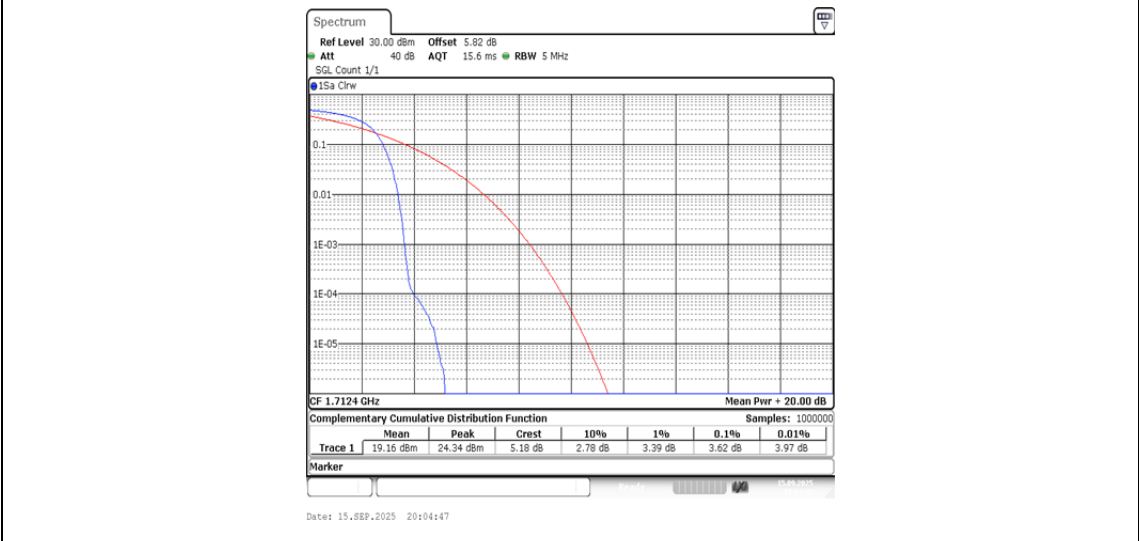
Band4-1413-PASS



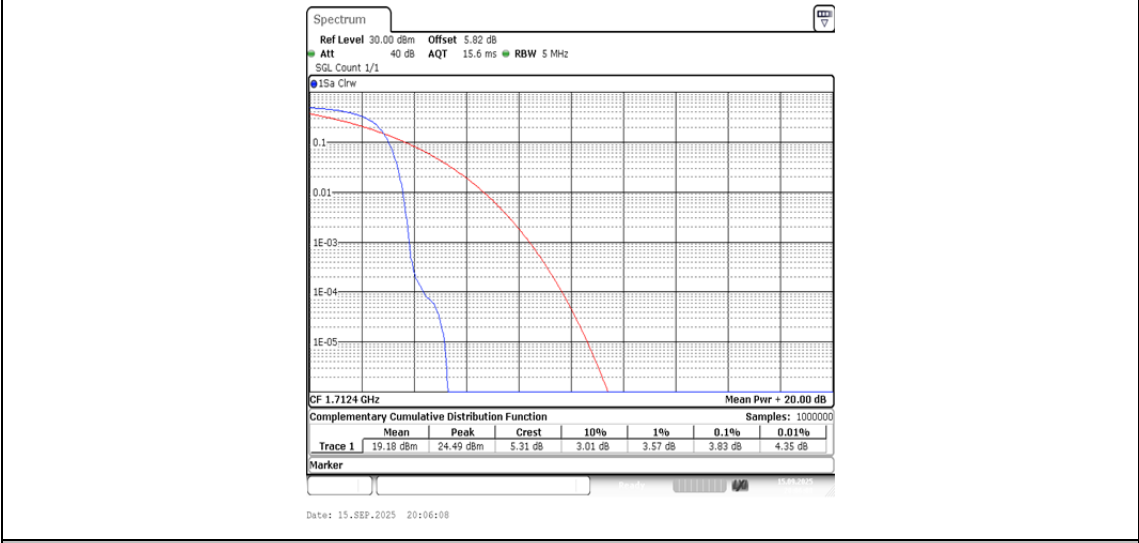
Band4-1513-PASS



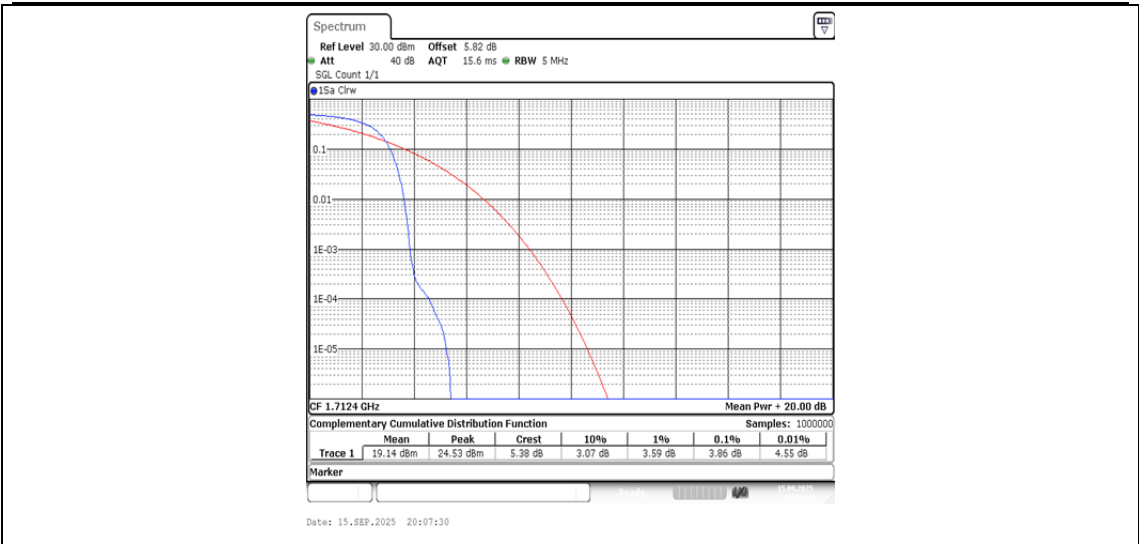
Band4-1312-1-PASS



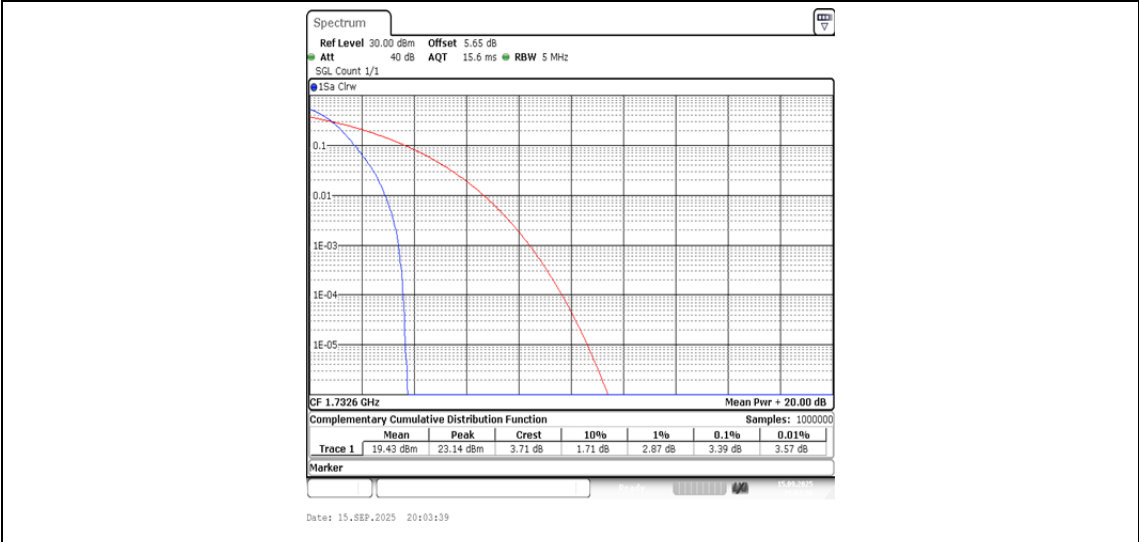
Band4-1312-2-PASS



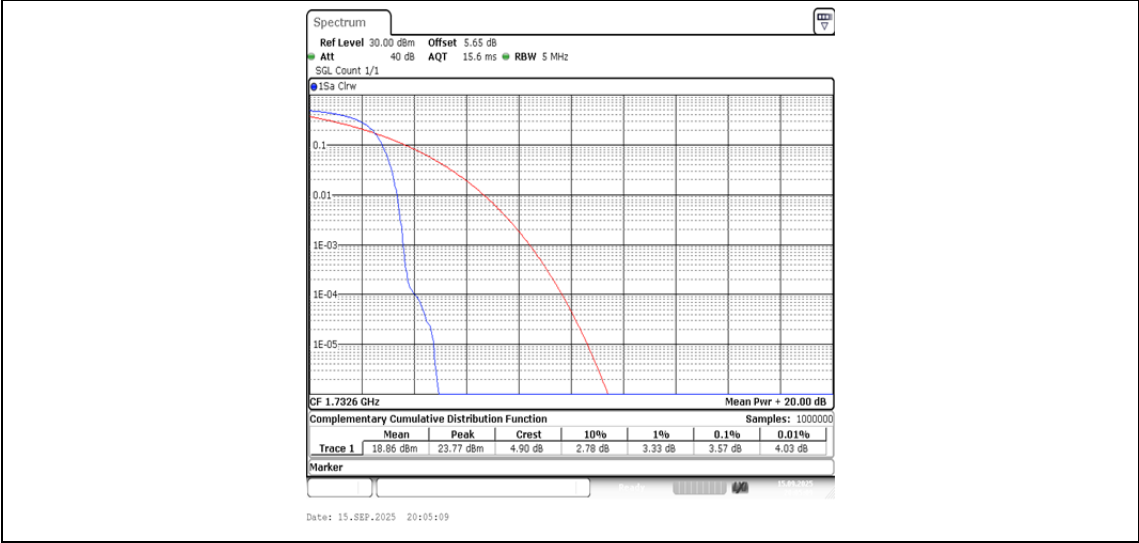
Band4-1312-3-PASS



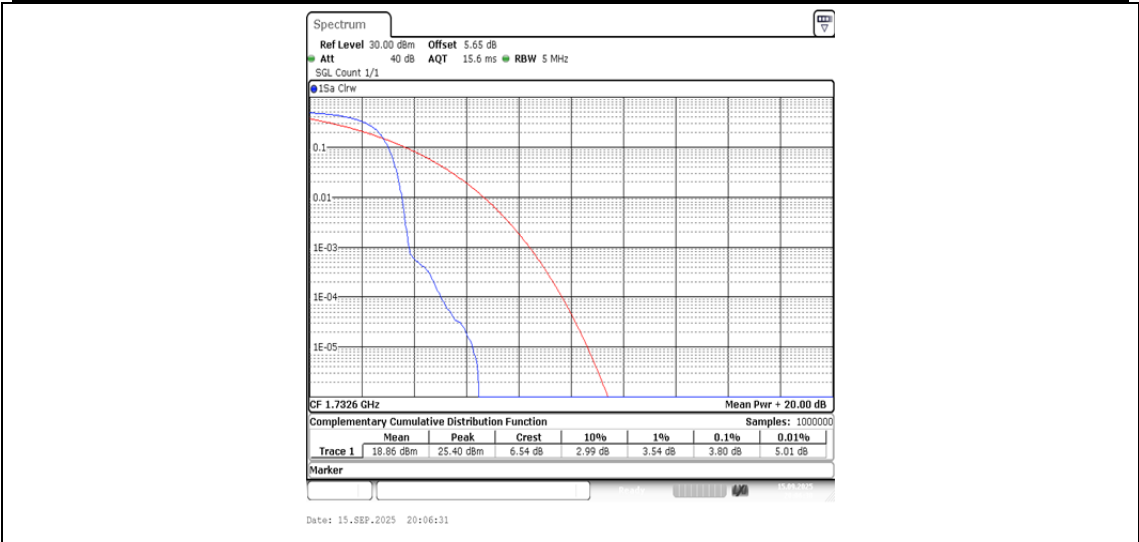
Band4-1312-4-PASS



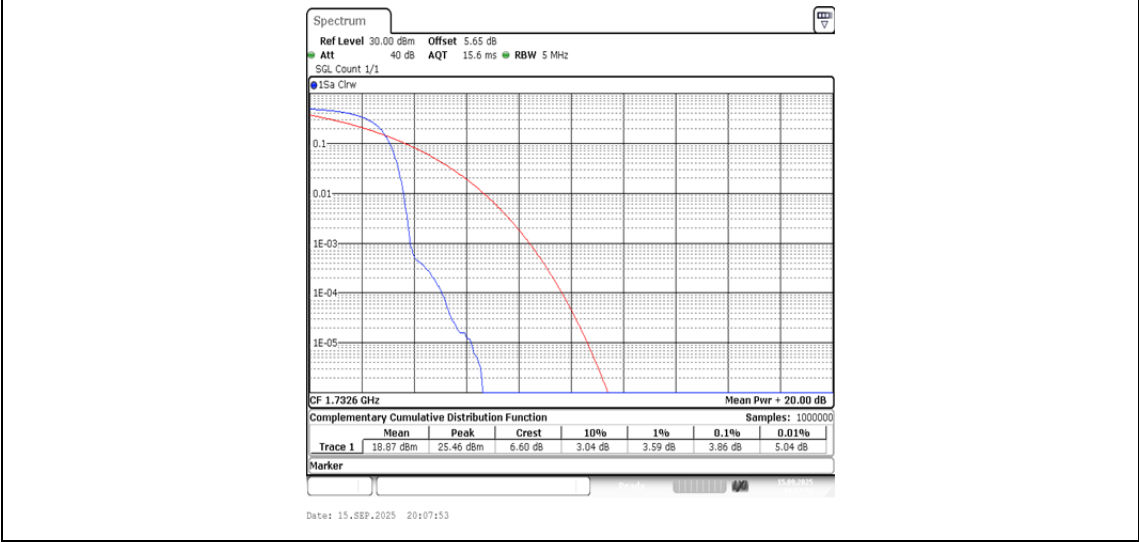
Band4-1413-1-PASS



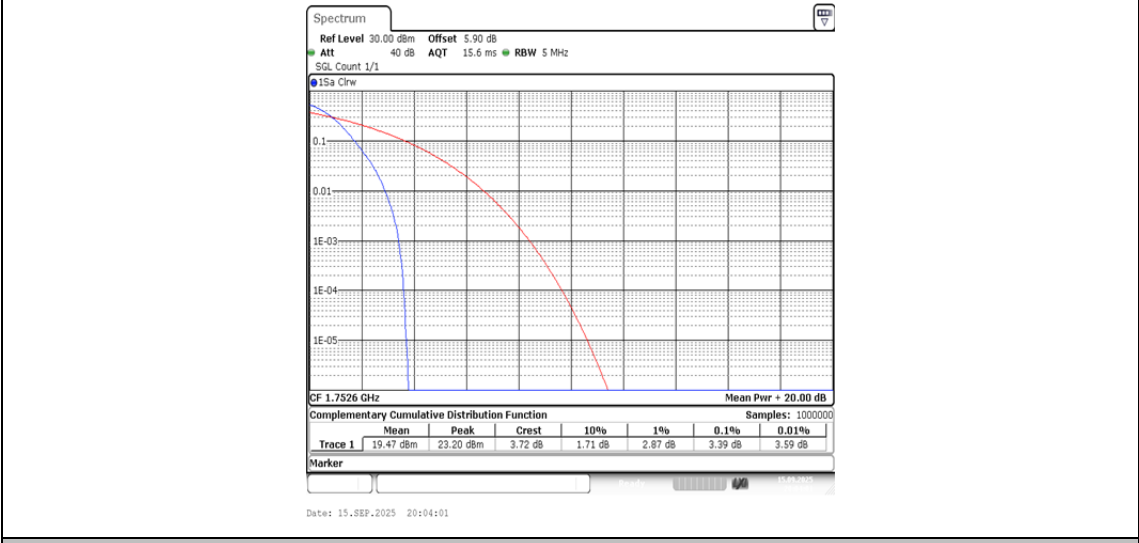
Band4-1413-2-PASS



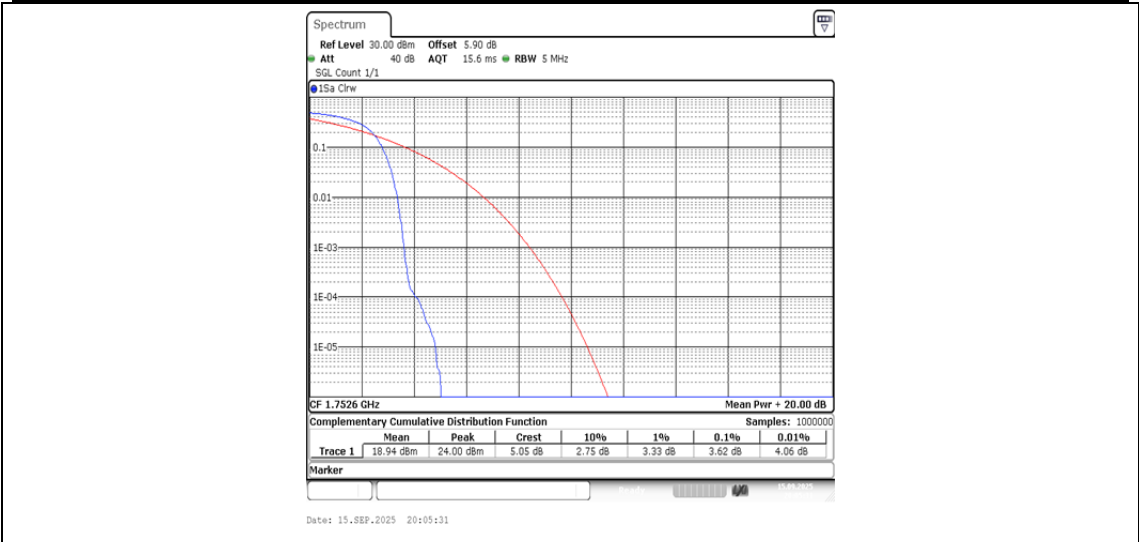
Band4-1413-3-PASS



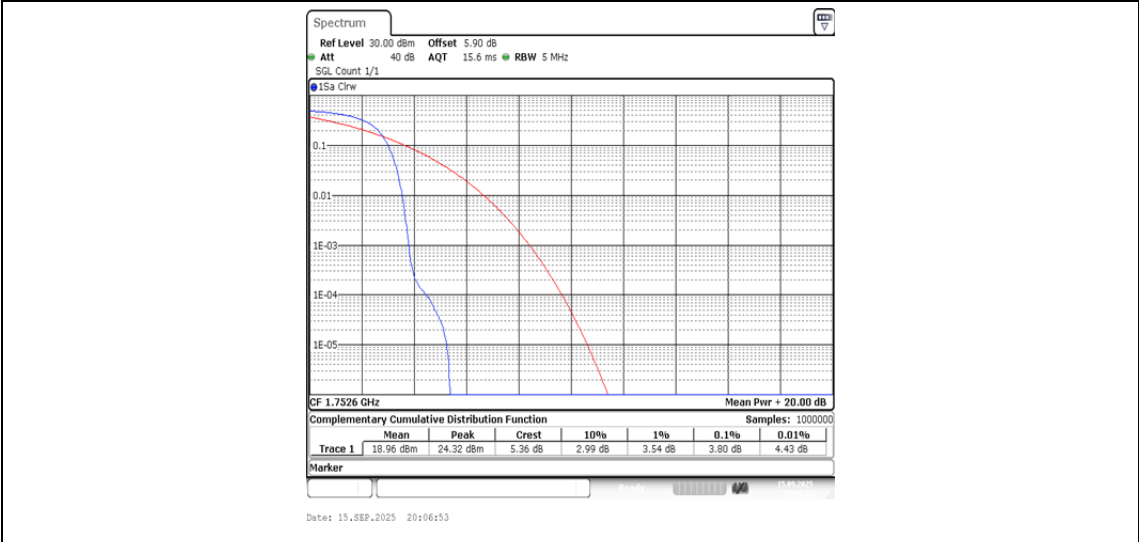
Band4-1413-4-PASS



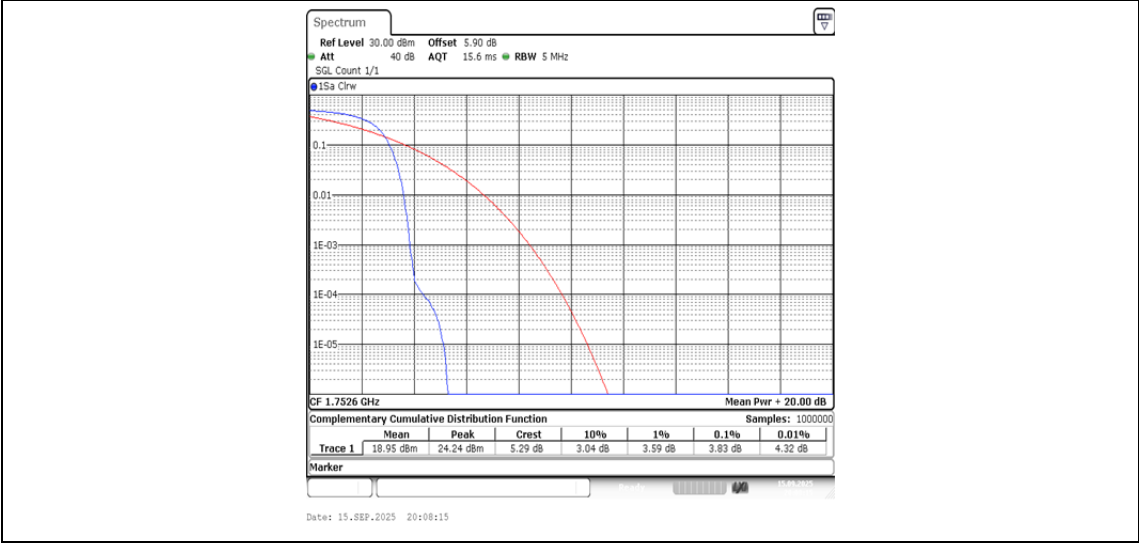
Band4-1513-1-PASS



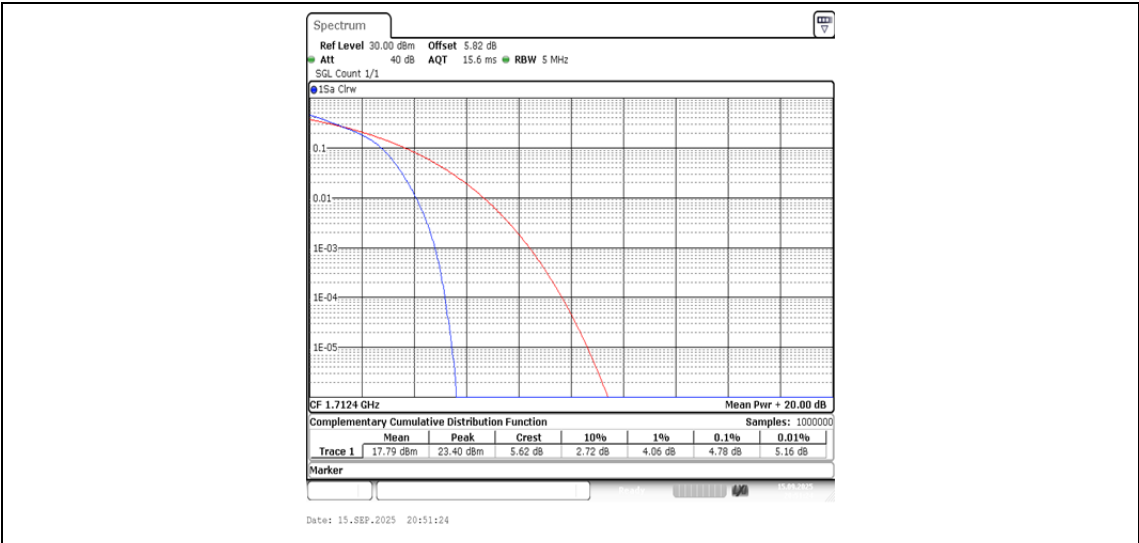
Band4-1513-2-PASS



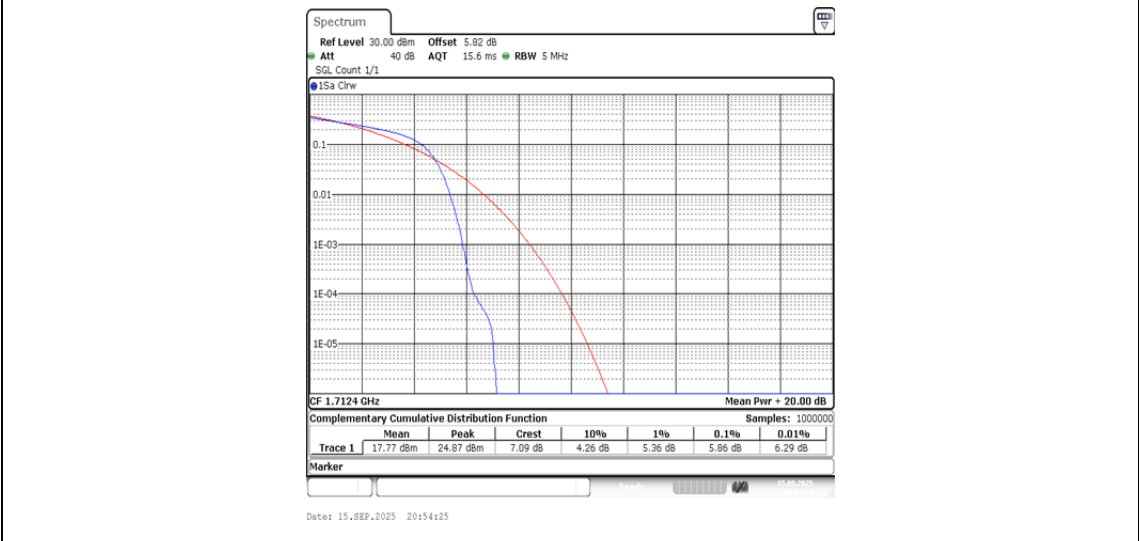
Band4-1513-3-PASS



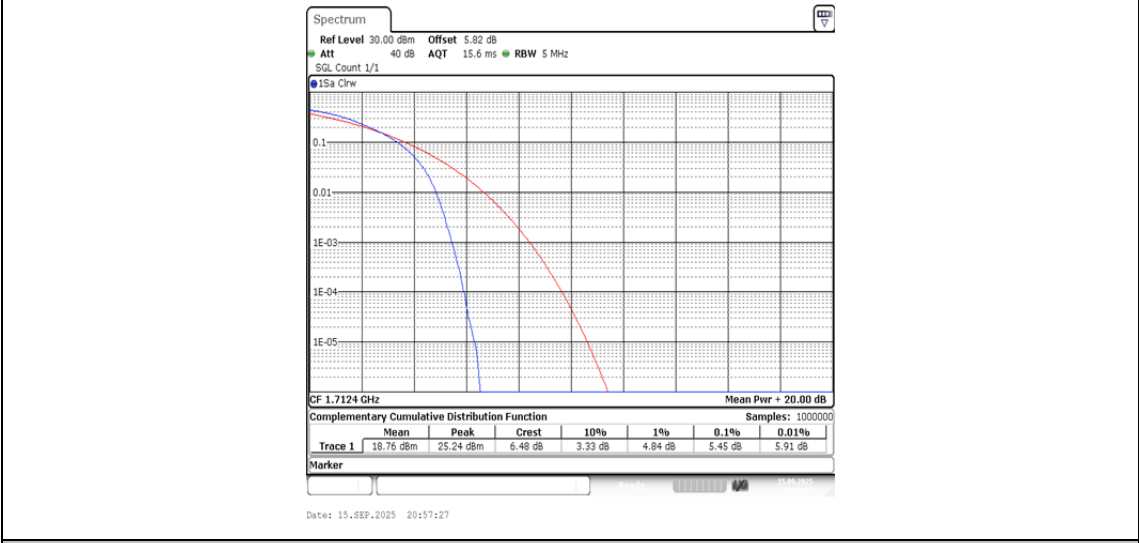
Band4-1513-4-PASS



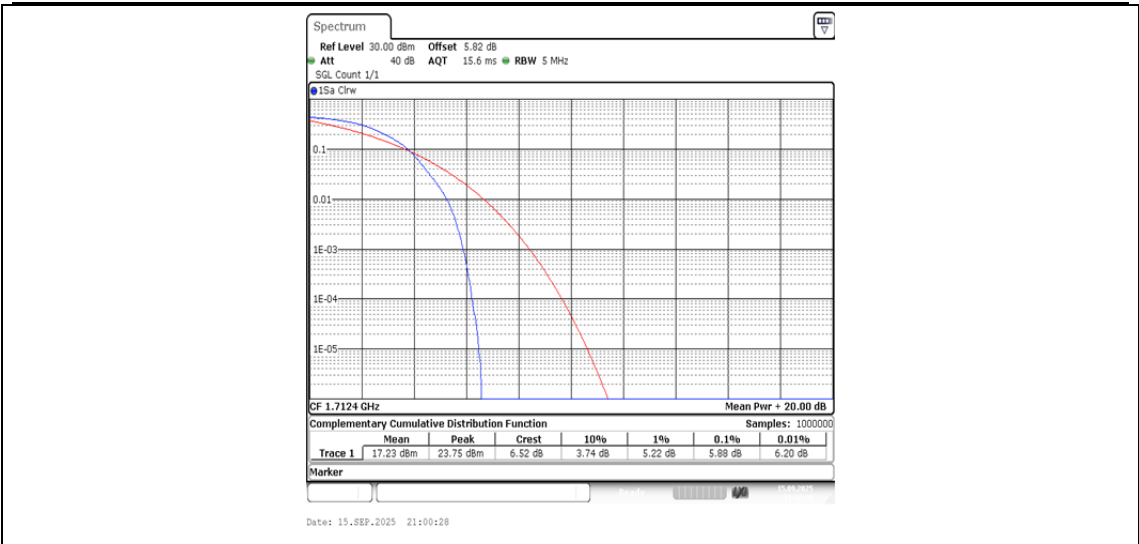
Band4-1312-1-PASS



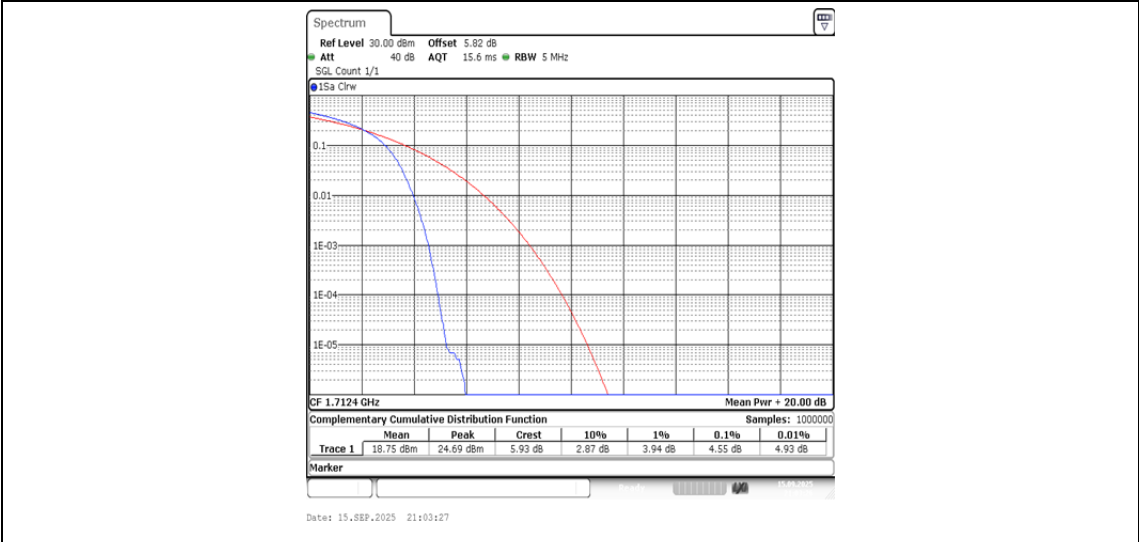
Band4-1312-2-PASS



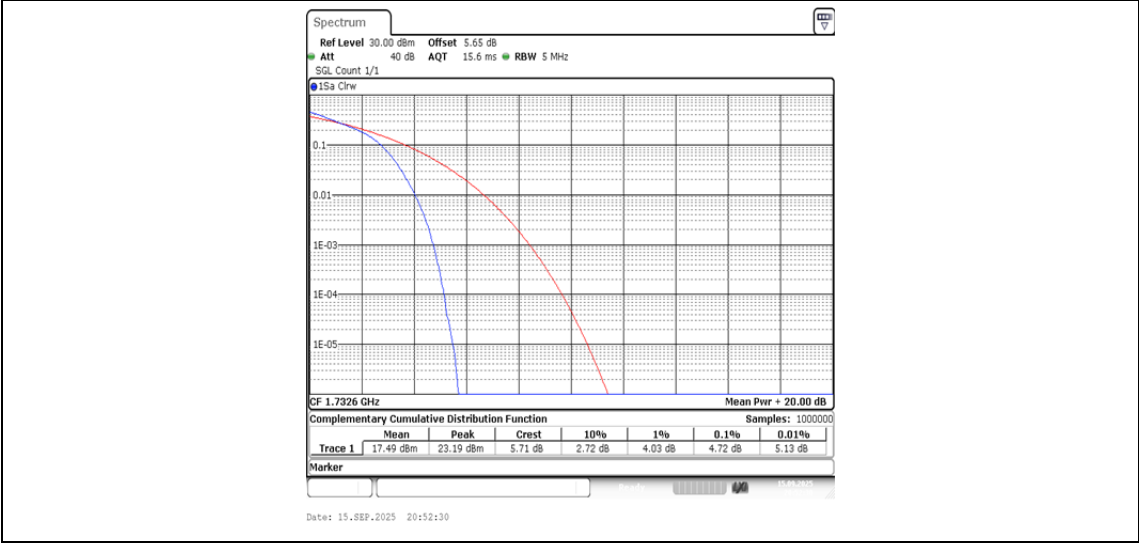
Band4-1312-3-PASS



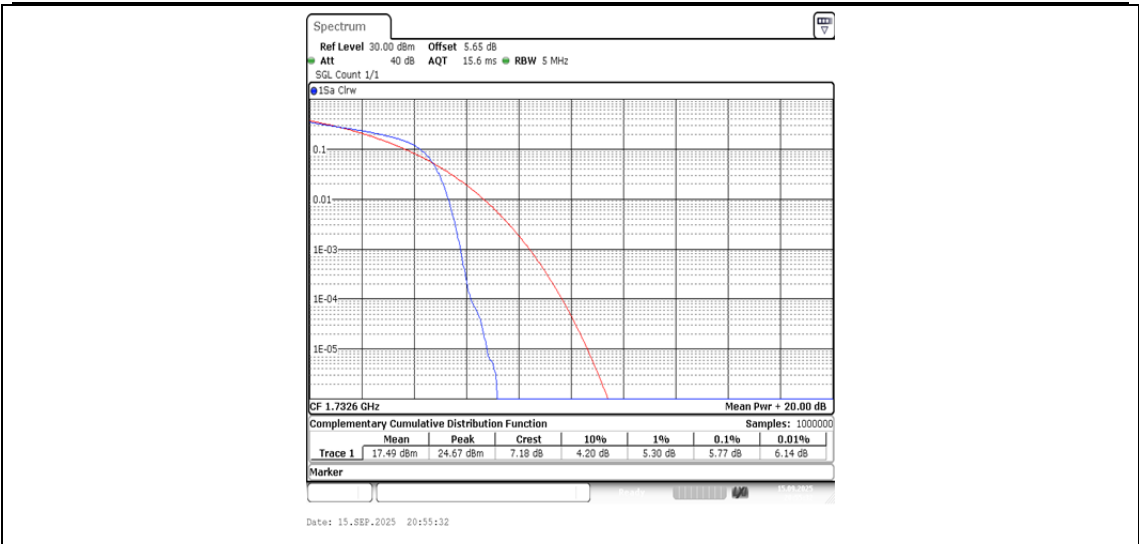
Band4-1312-4-PASS



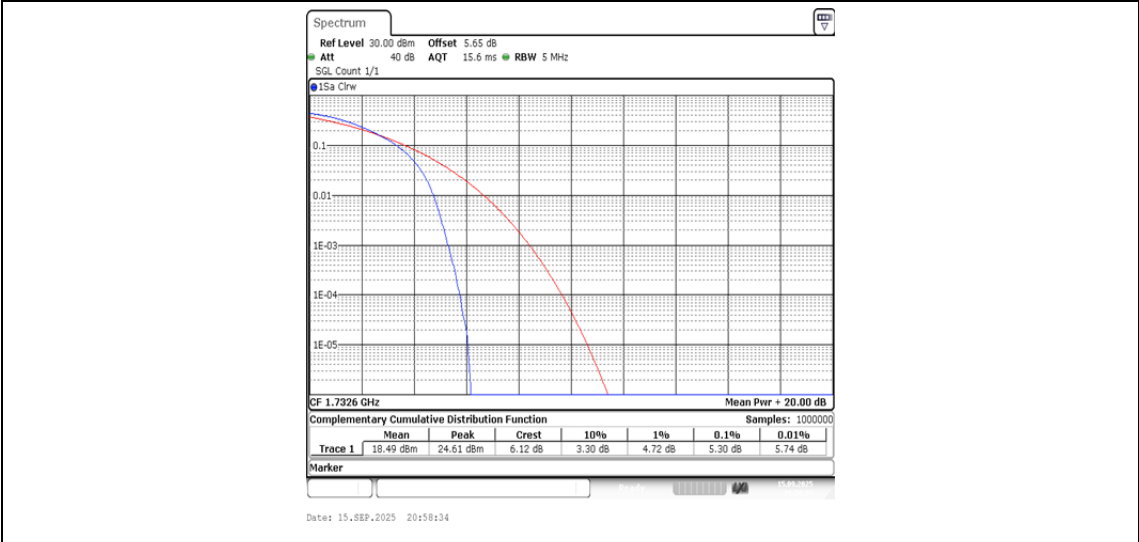
Band4-1312-5-PASS



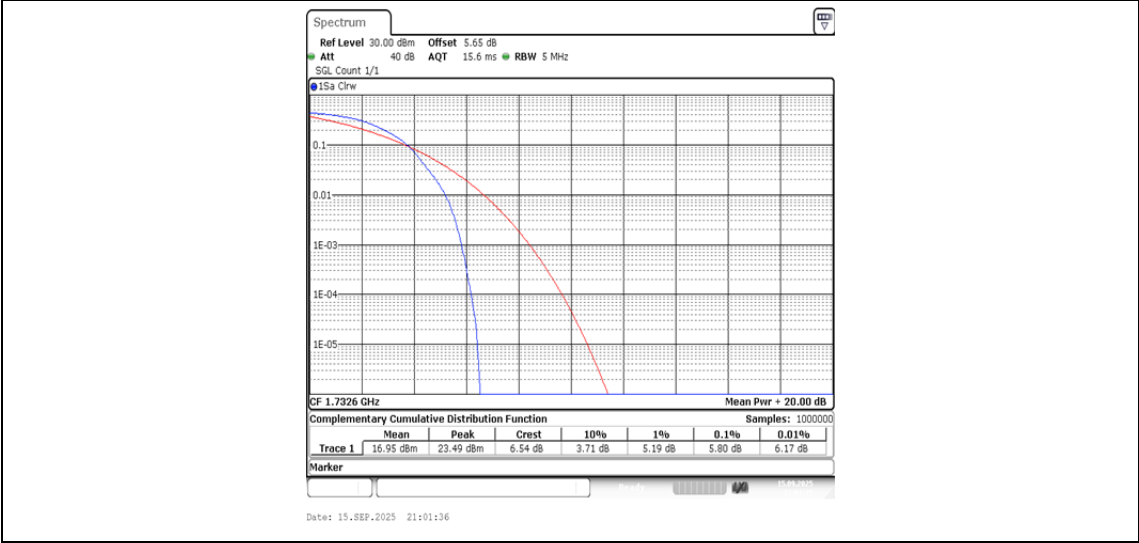
Band4-1413-1-PASS



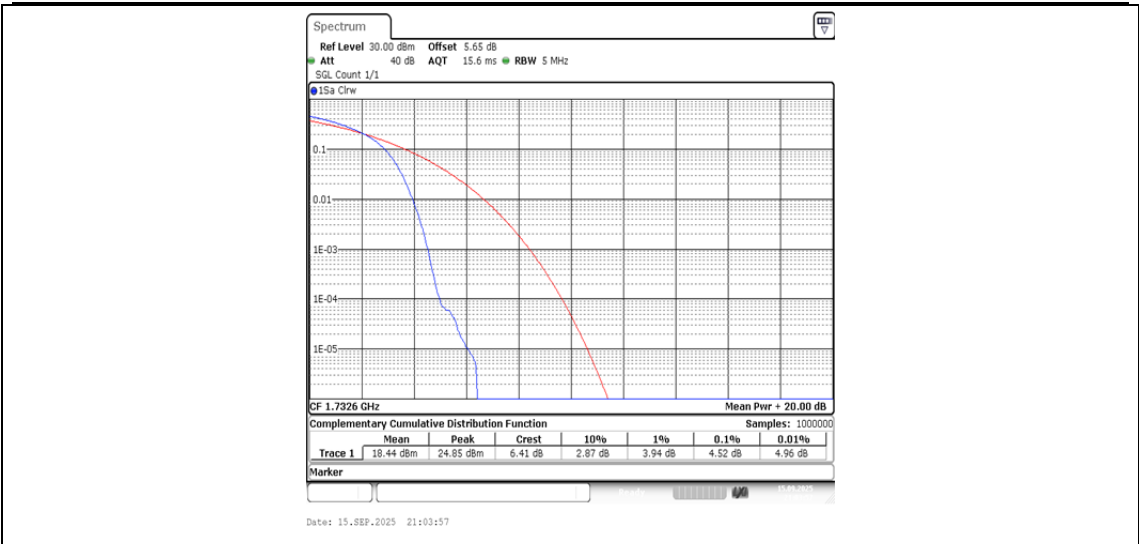
Band4-1413-2-PASS



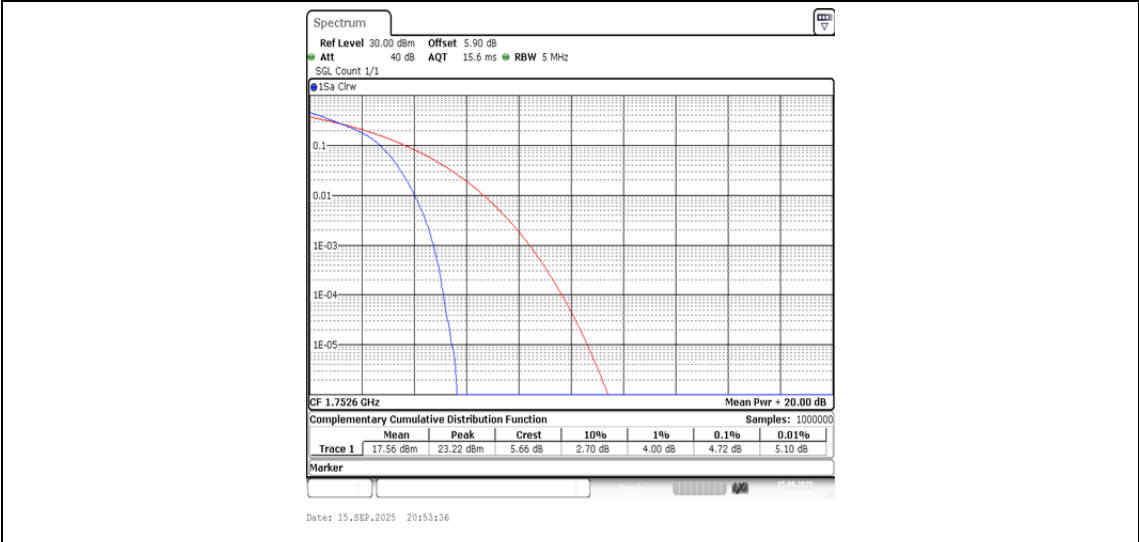
Band4-1413-3-PASS



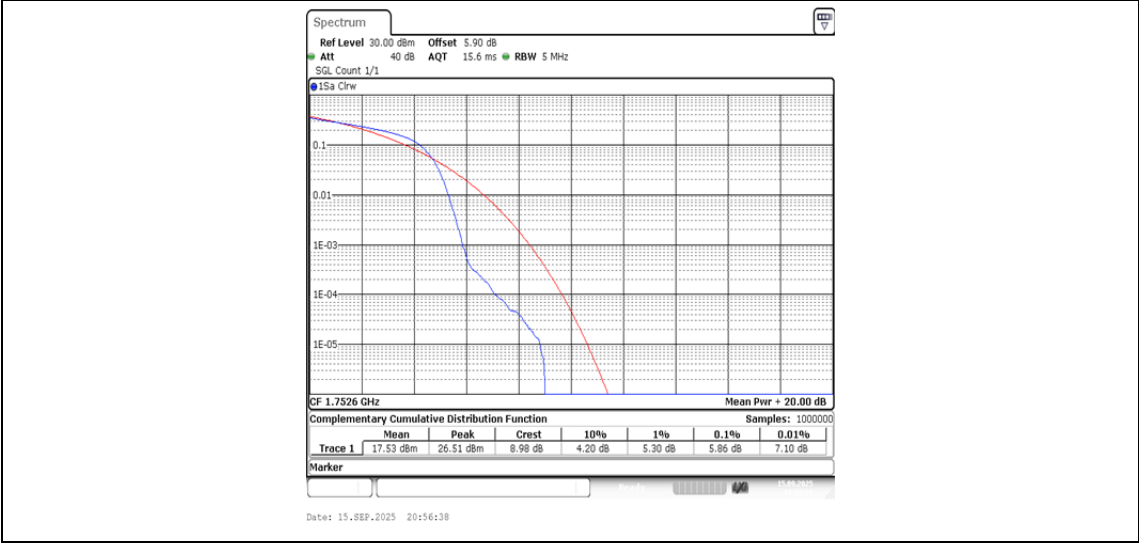
Band4-1413-4-PASS



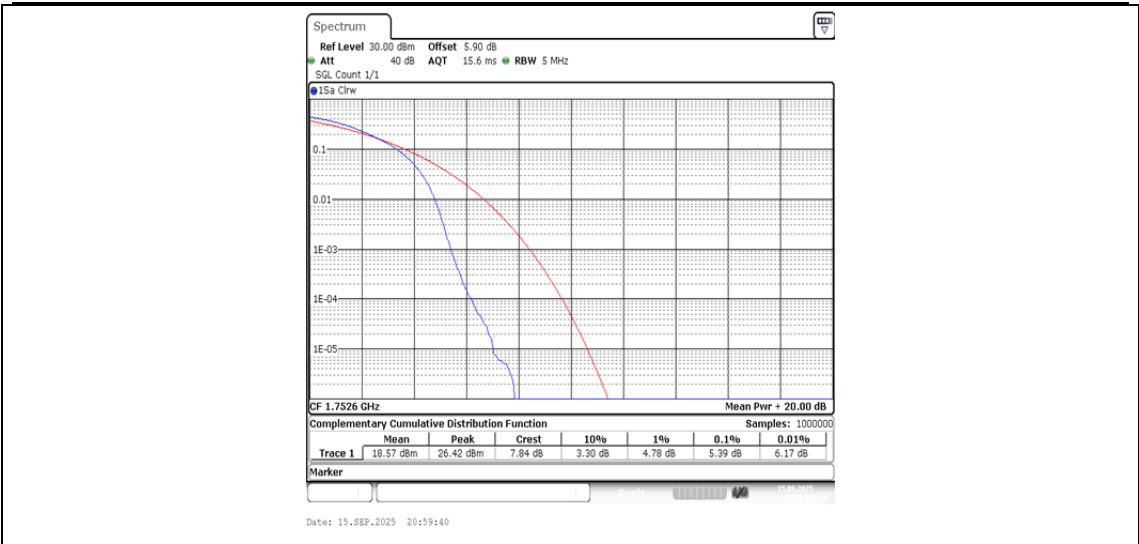
Band4-1413-5-PASS



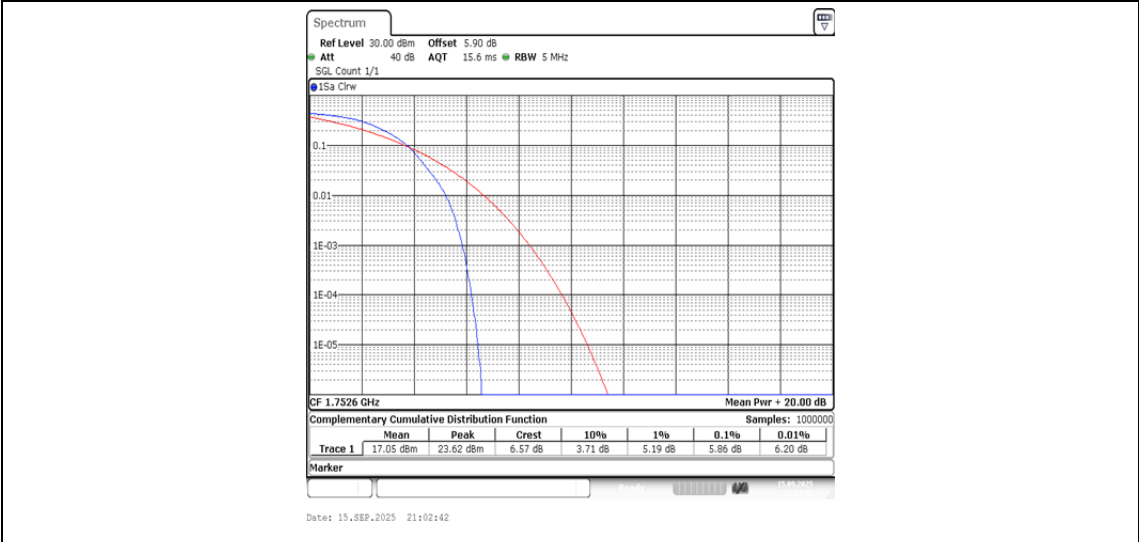
Band4-1513-1-PASS



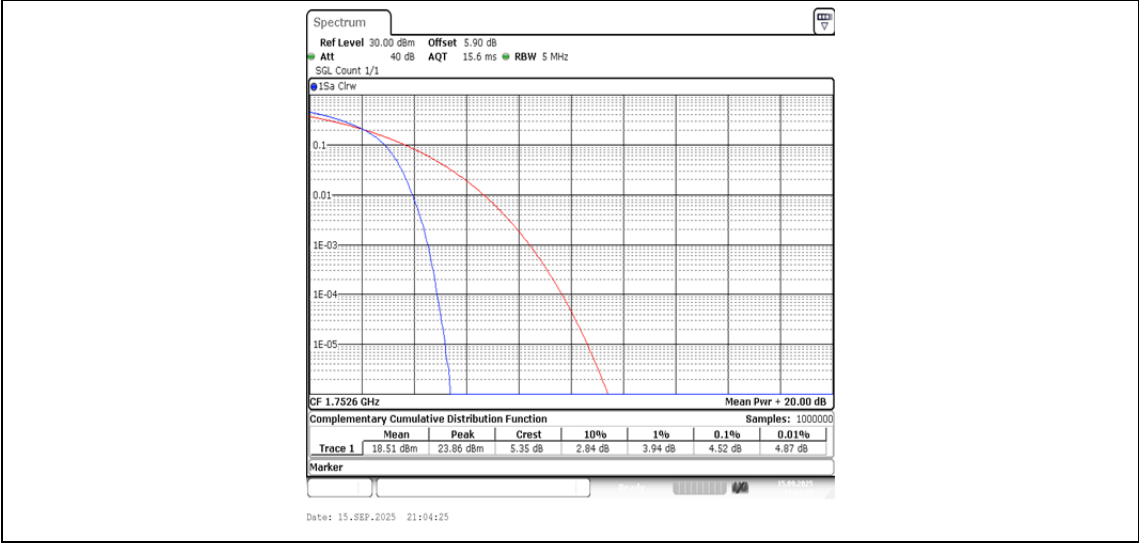
Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



Band4-1513-5-PASS

AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

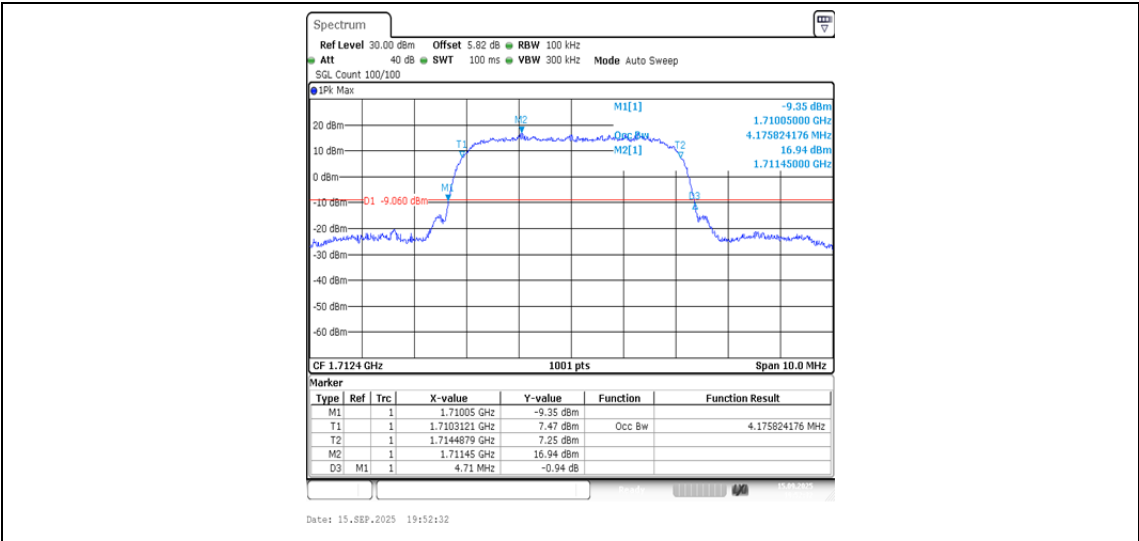
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.176	4.71	---	PASS
Band4	1413	4.176	4.70	---	PASS
Band4	1513	4.166	4.72	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.176	4.72	---	PASS
Band4	1312	2	4.176	4.74	---	PASS
Band4	1312	3	4.186	4.76	---	PASS
Band4	1312	4	4.186	4.76	---	PASS
Band4	1413	1	4.166	4.71	---	PASS
Band4	1413	2	4.176	4.73	---	PASS
Band4	1413	3	4.176	4.75	---	PASS
Band4	1413	4	4.186	4.76	---	PASS
Band4	1513	1	4.166	4.71	---	PASS
Band4	1513	2	4.186	4.73	---	PASS
Band4	1513	3	4.186	4.75	---	PASS
Band4	1513	4	4.176	4.73	---	PASS

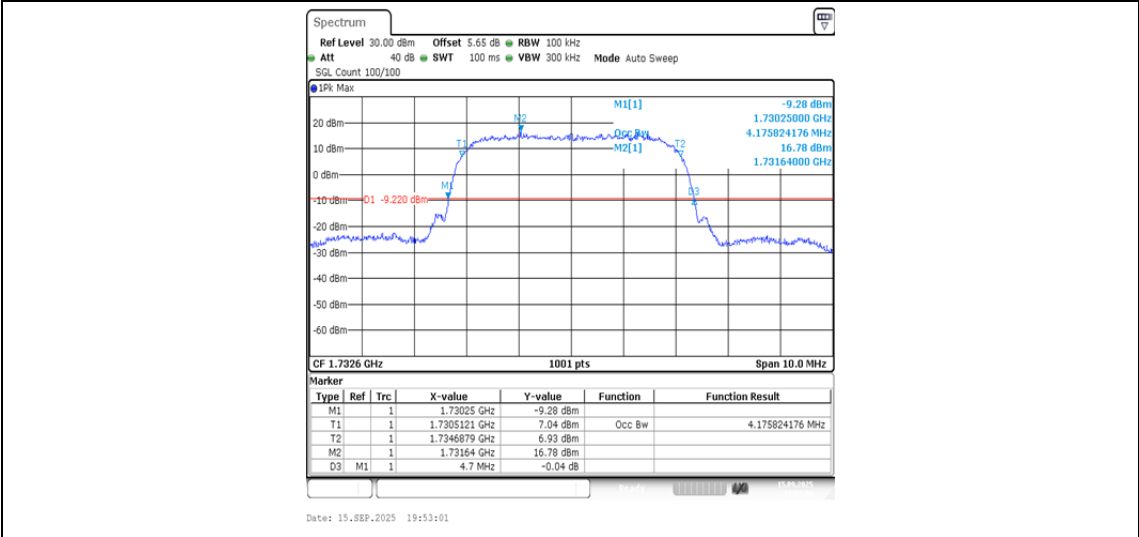
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.196	4.73	---	PASS
Band4	1312	2	4.206	4.76	---	PASS
Band4	1312	3	4.196	4.73	---	PASS
Band4	1312	4	4.226	5.43	---	PASS
Band4	1312	5	4.176	4.72	---	PASS
Band4	1413	1	4.186	4.72	---	PASS
Band4	1413	2	4.216	5.34	---	PASS
Band4	1413	3	4.226	5.04	---	PASS
Band4	1413	4	4.206	4.75	---	PASS
Band4	1413	5	4.176	4.79	---	PASS
Band4	1513	1	4.186	4.73	---	PASS

Band4	1513	2	4.206	4.77	---	PASS
Band4	1513	3	4.206	4.75	---	PASS
Band4	1513	4	4.206	4.75	---	PASS
Band4	1513	5	4.186	4.73	---	PASS

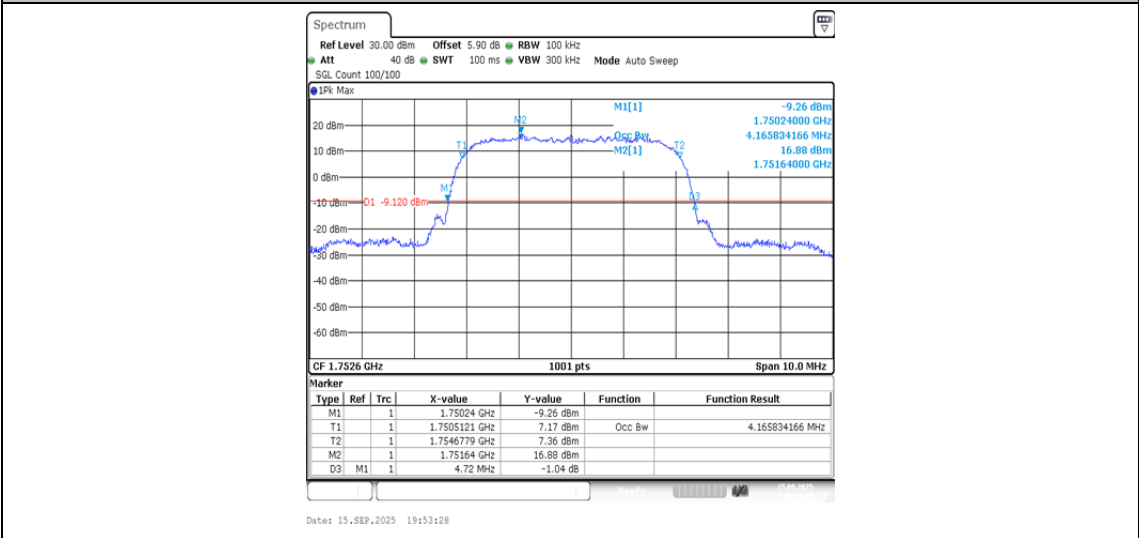
Test Graphs



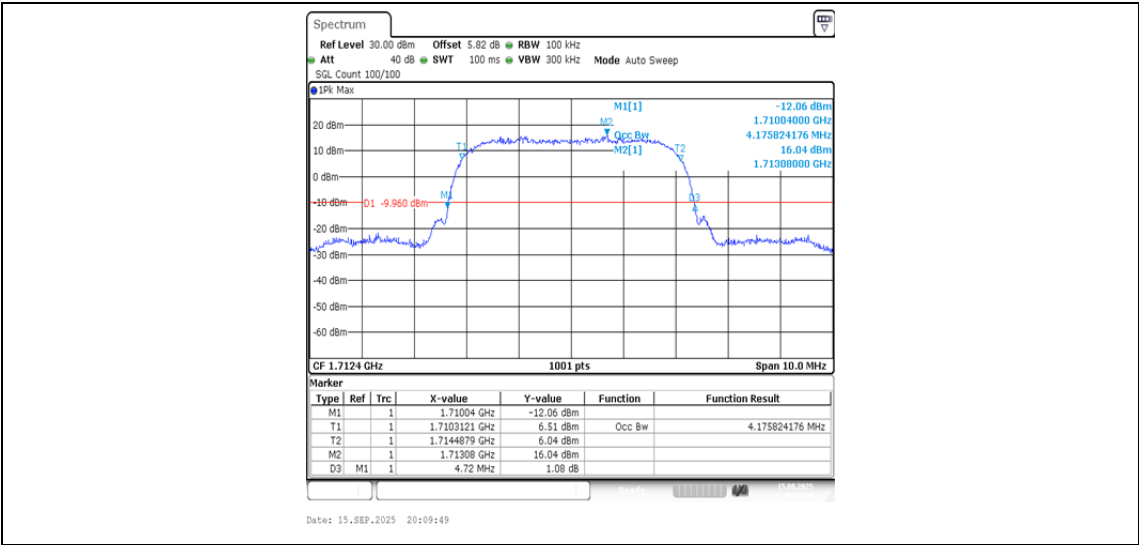
Band4-1312-PASS



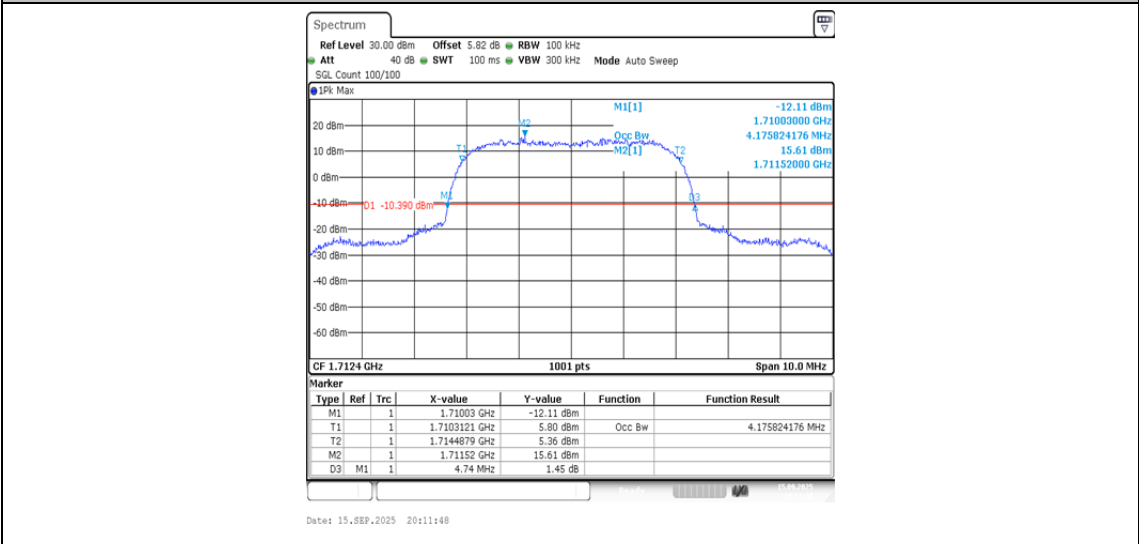
Band4-1413-PASS



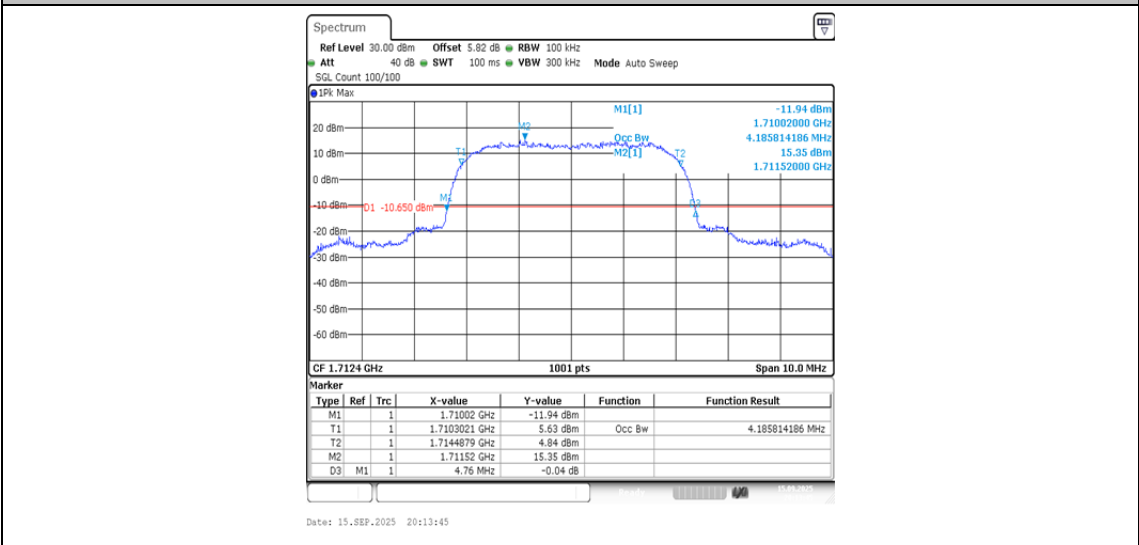
Band4-1513-PASS



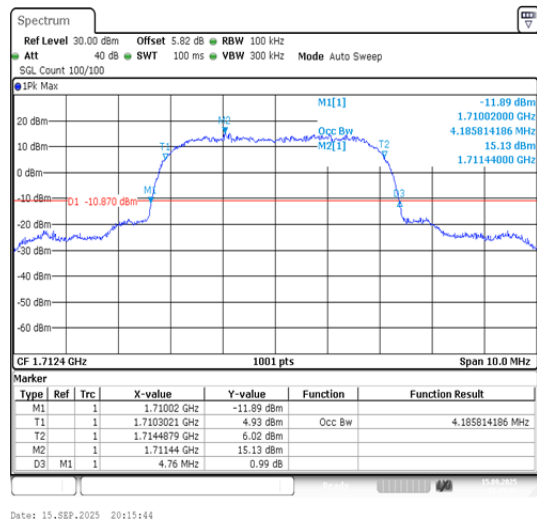
Band4-1312-1-PASS



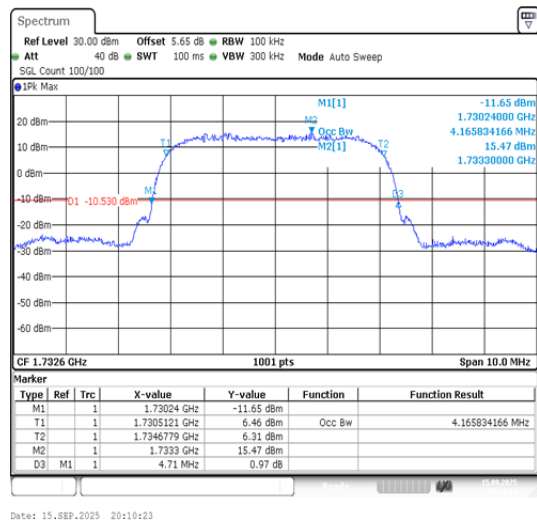
Band4-1312-2-PASS



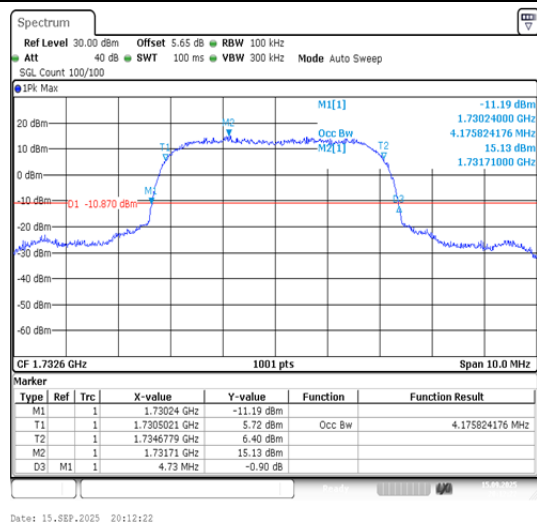
Band4-1312-3-PASS



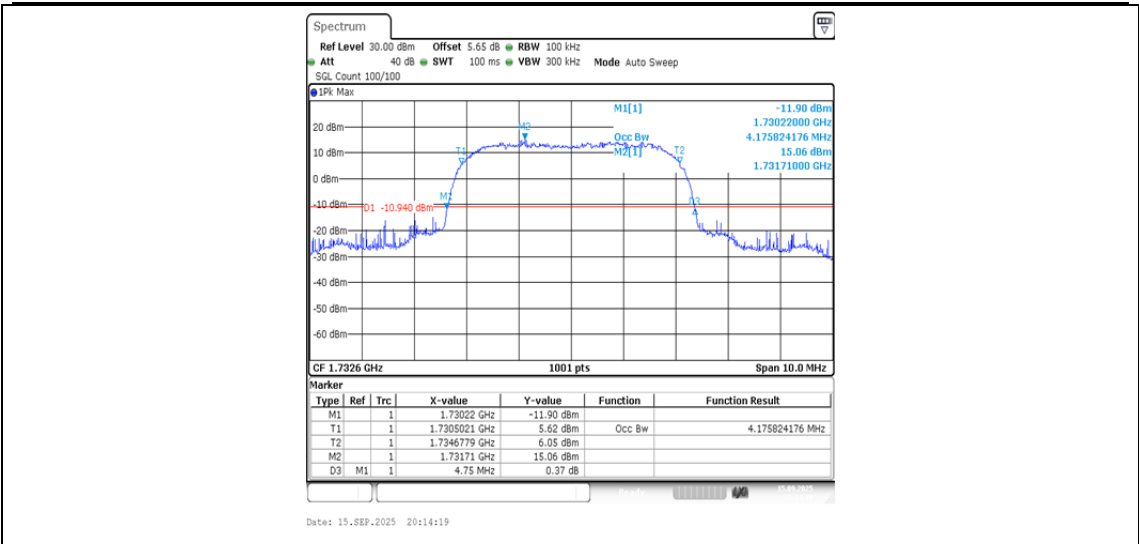
Band4-1312-4-PASS



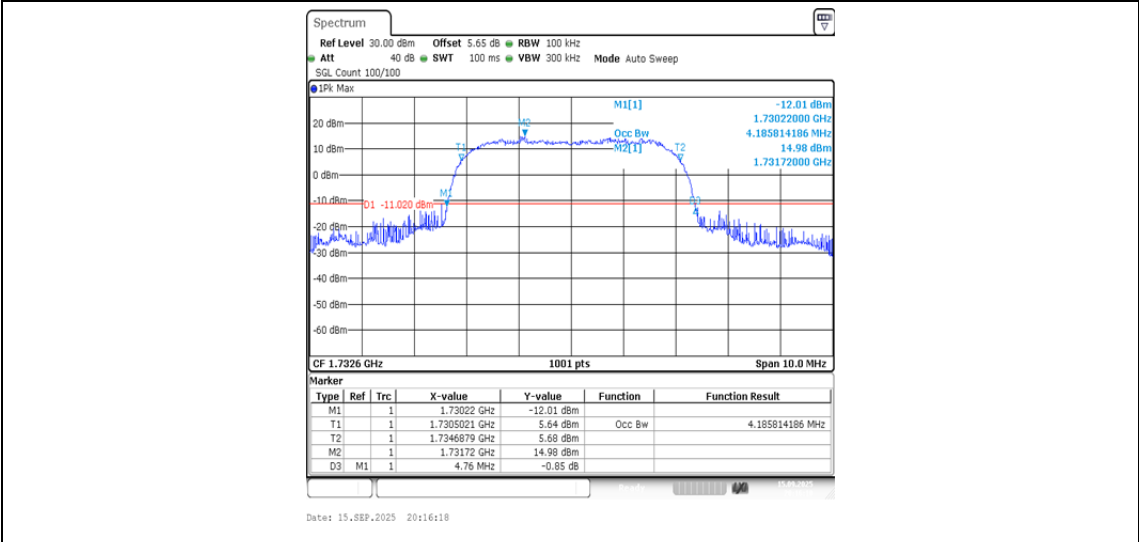
Band4-1413-1-PASS



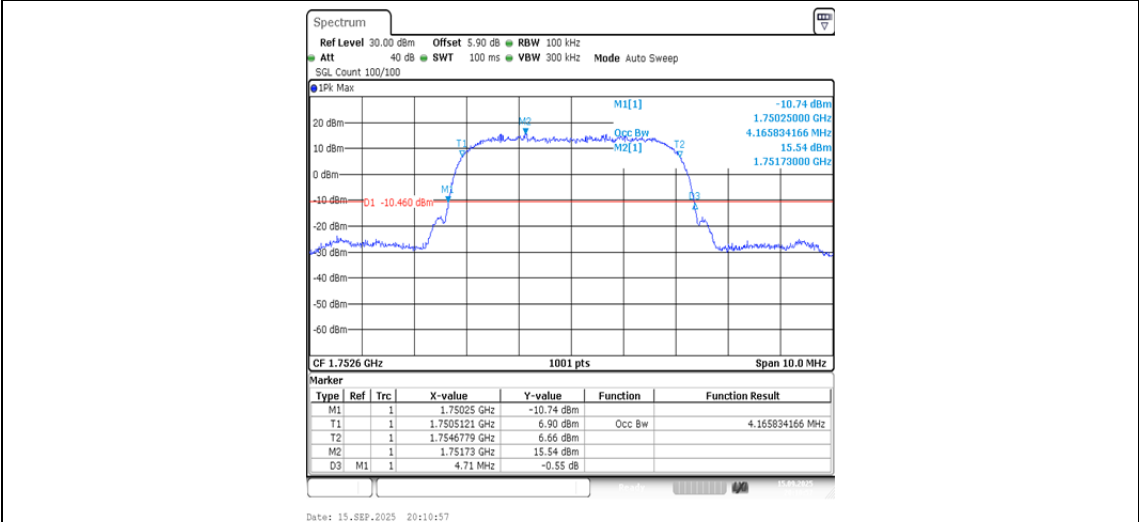
Band4-1413-2-PASS



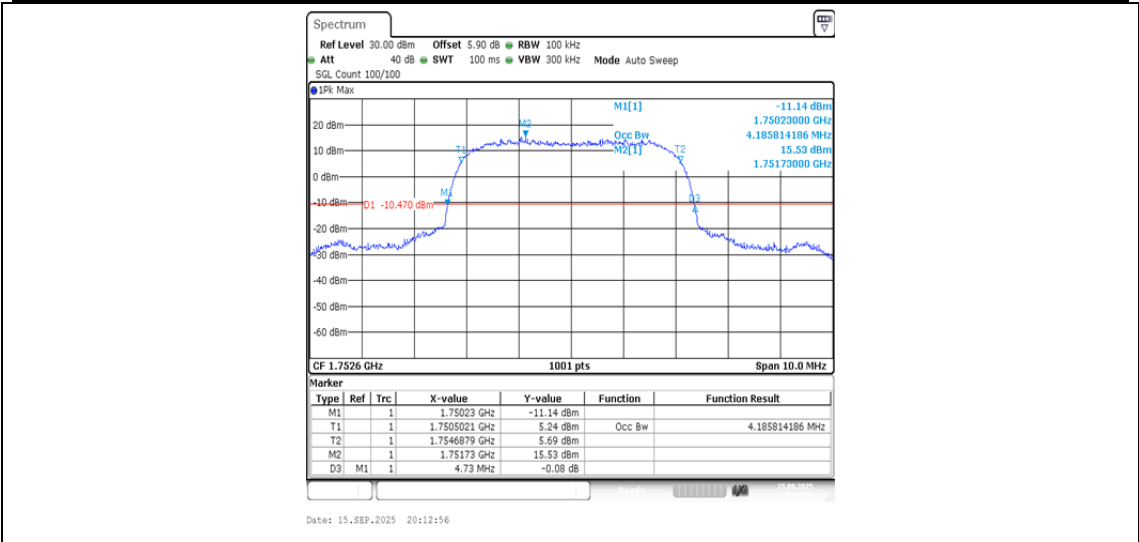
Band4-1413-3-PASS



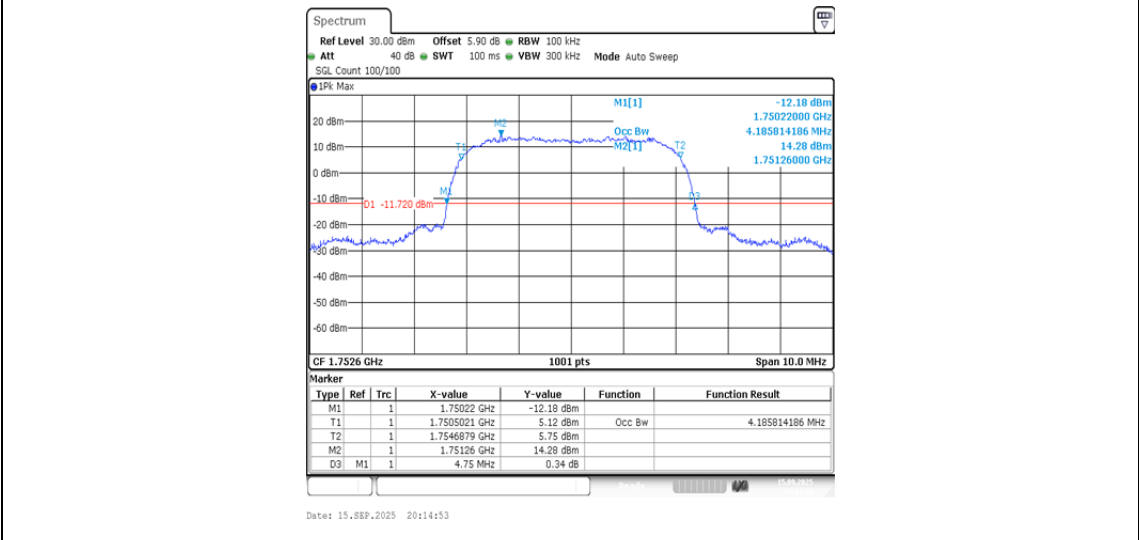
Band4-1413-4-PASS



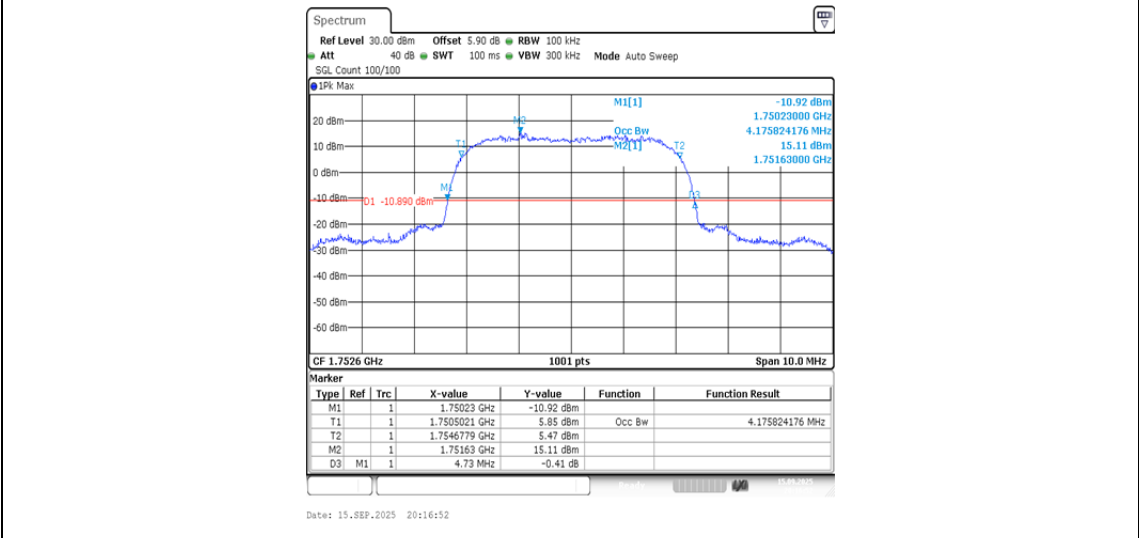
Band4-1513-1-PASS



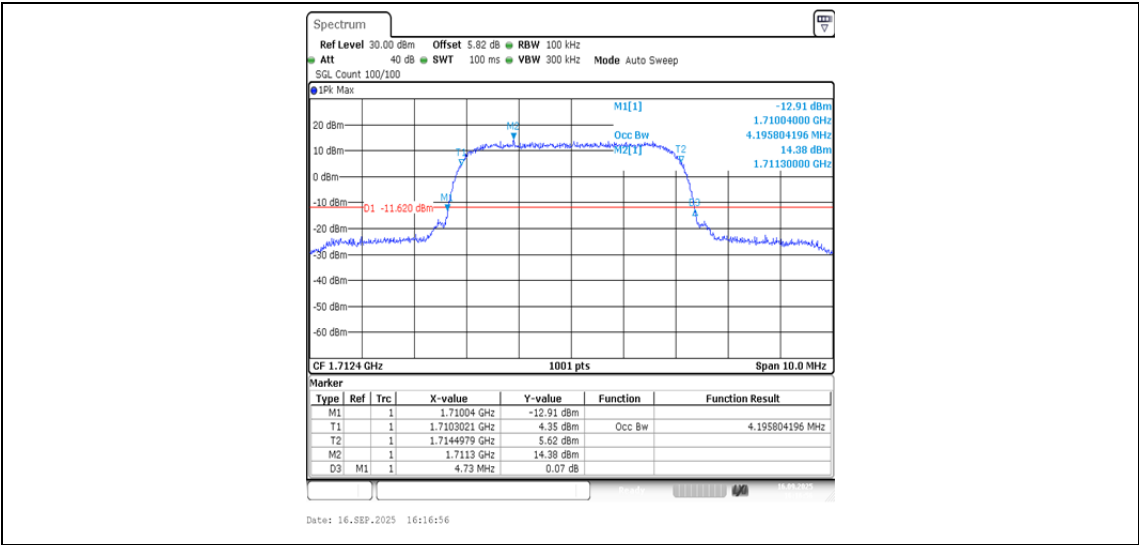
Band4-1513-2-PASS



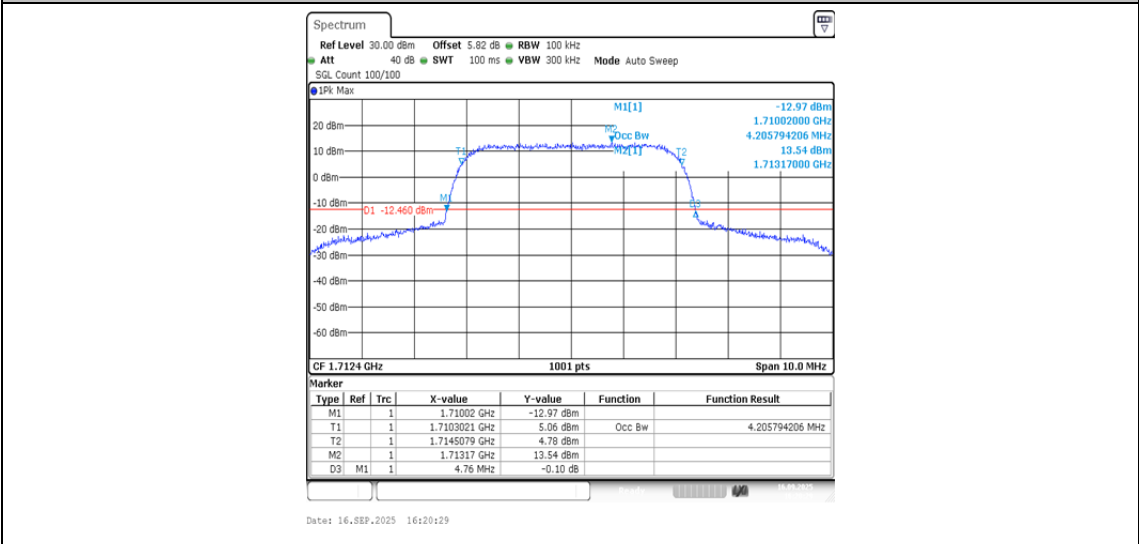
Band4-1513-3-PASS



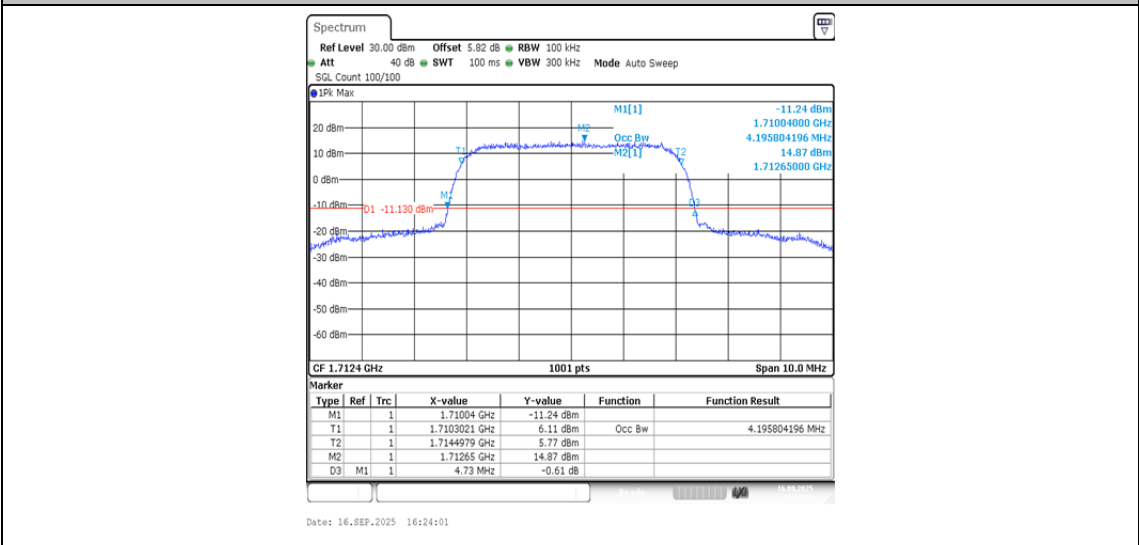
Band4-1513-4-PASS

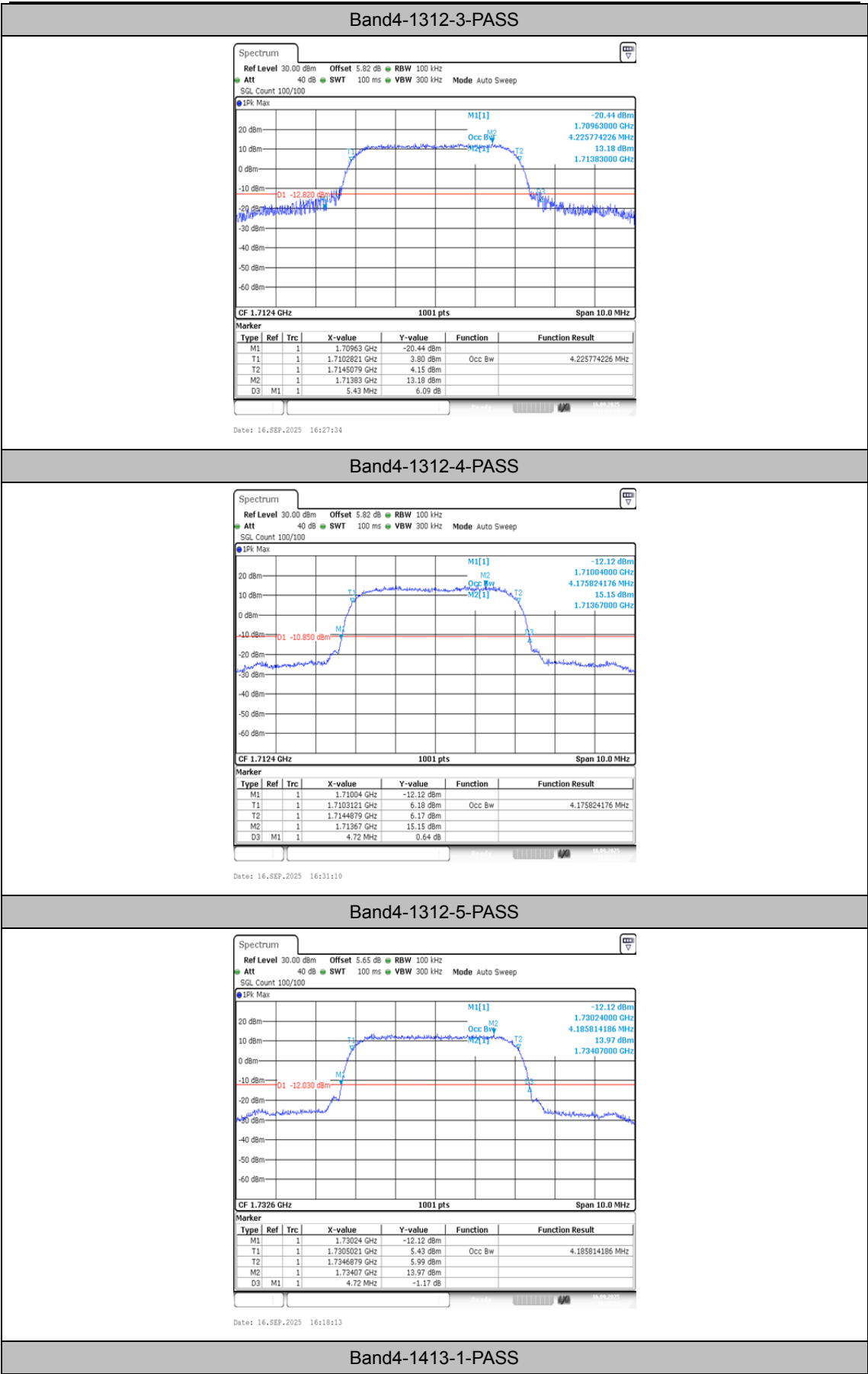


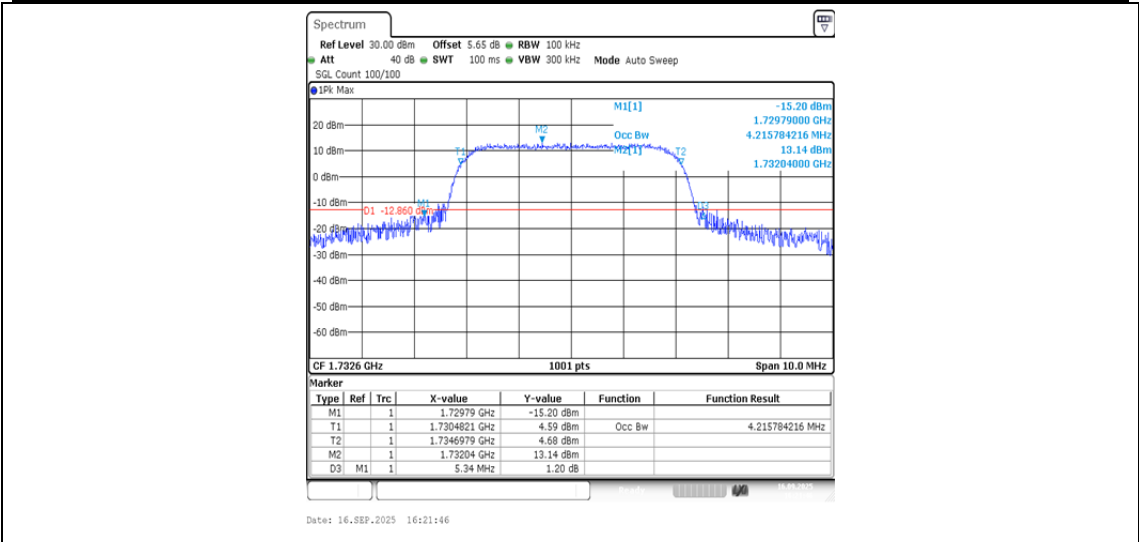
Band4-1312-1-PASS



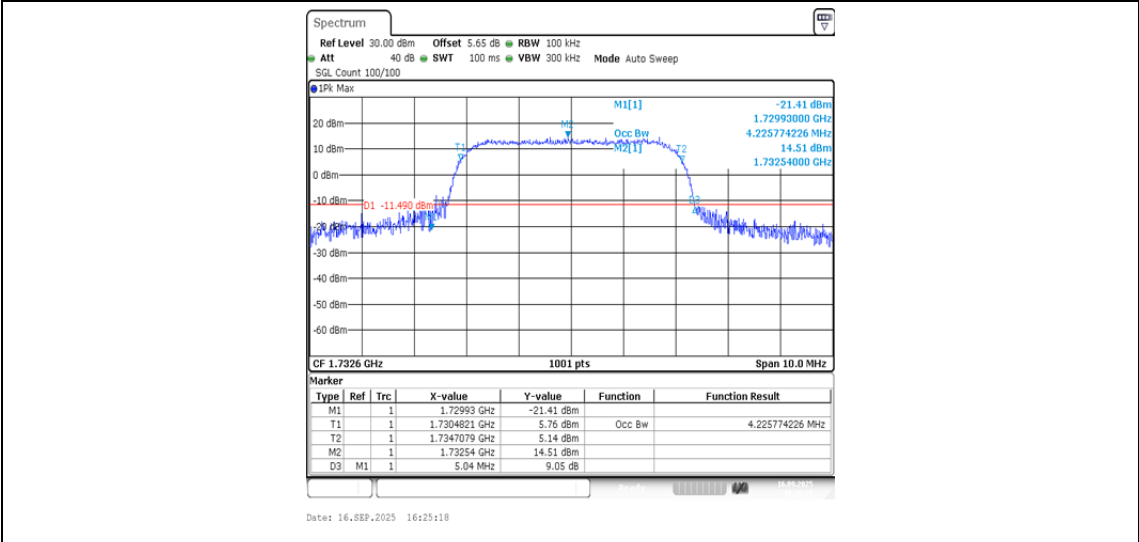
Band4-1312-2-PASS



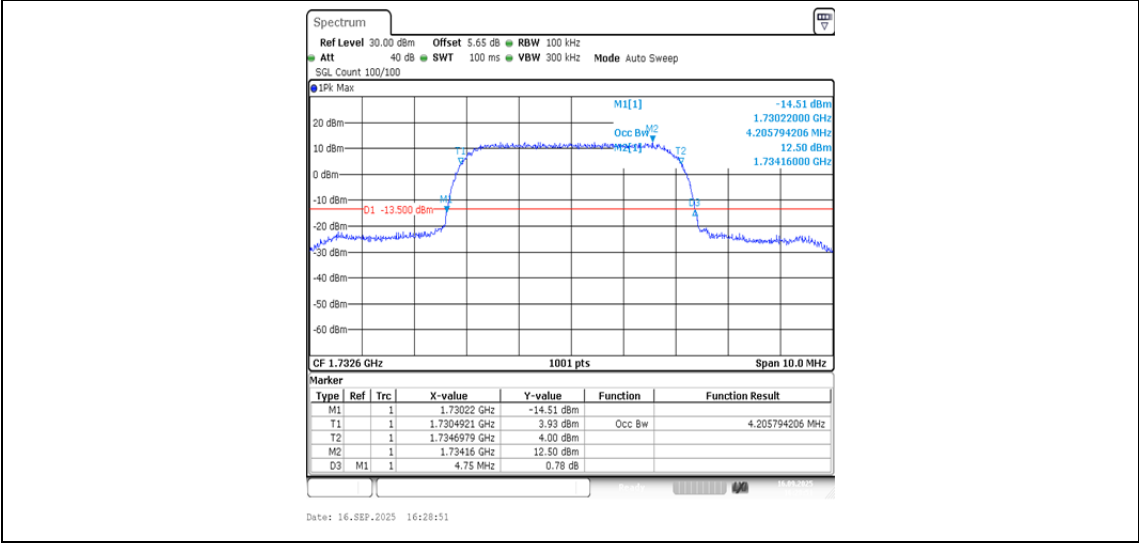




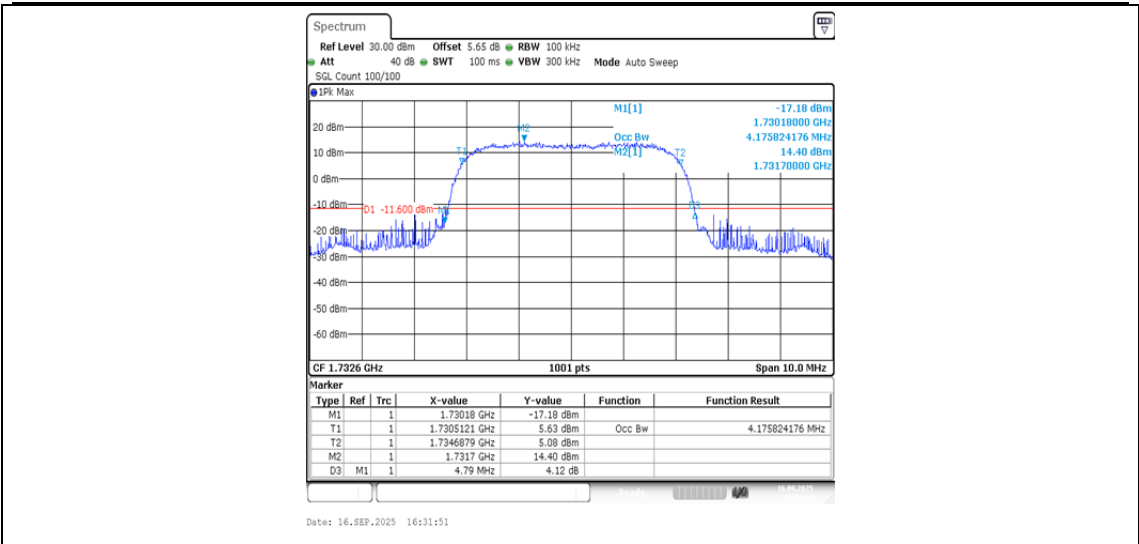
Band4-1413-2-PASS



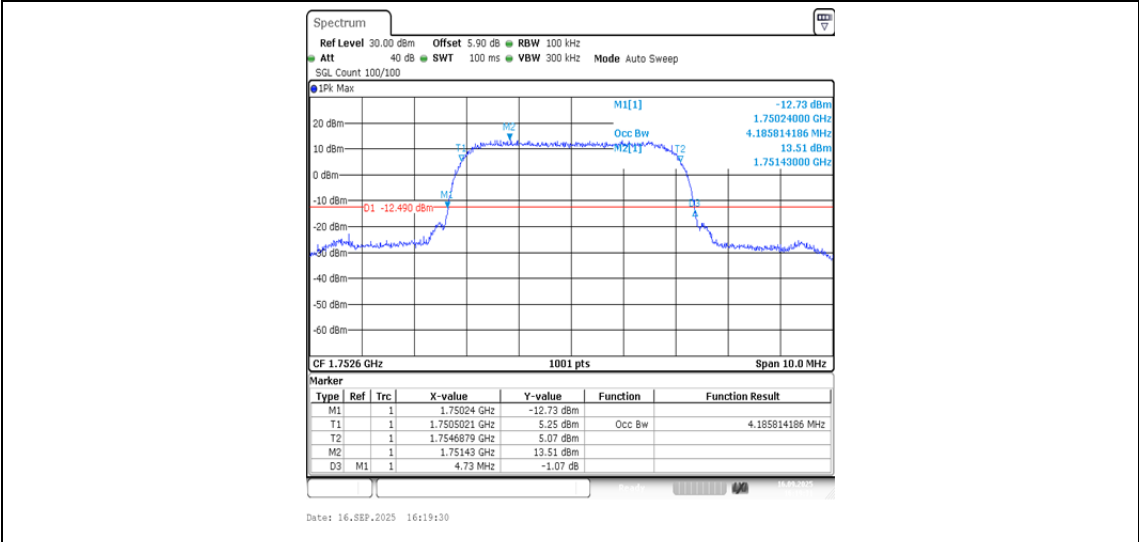
Band4-1413-3-PASS



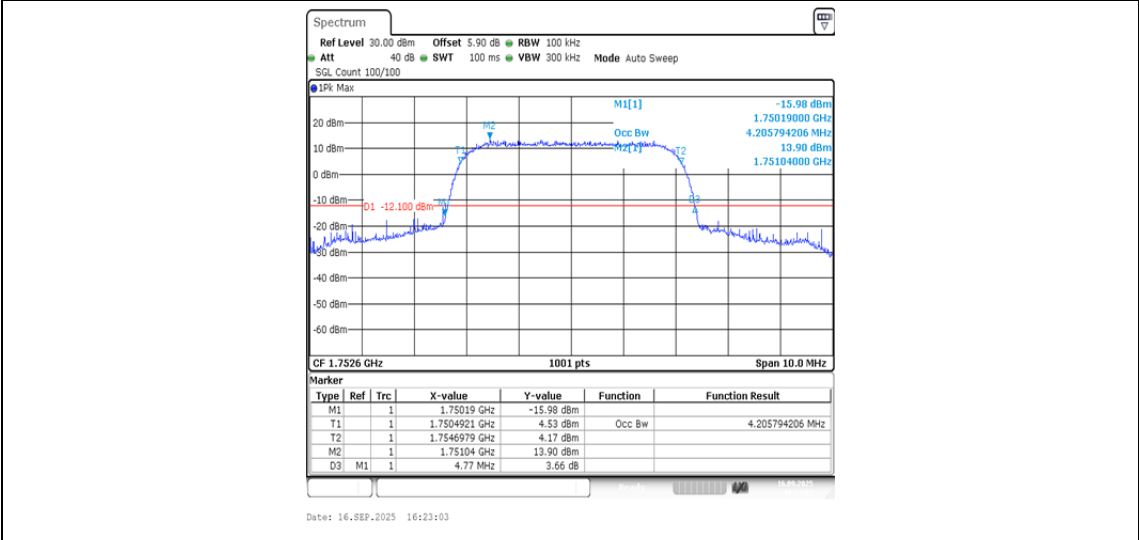
Band4-1413-4-PASS



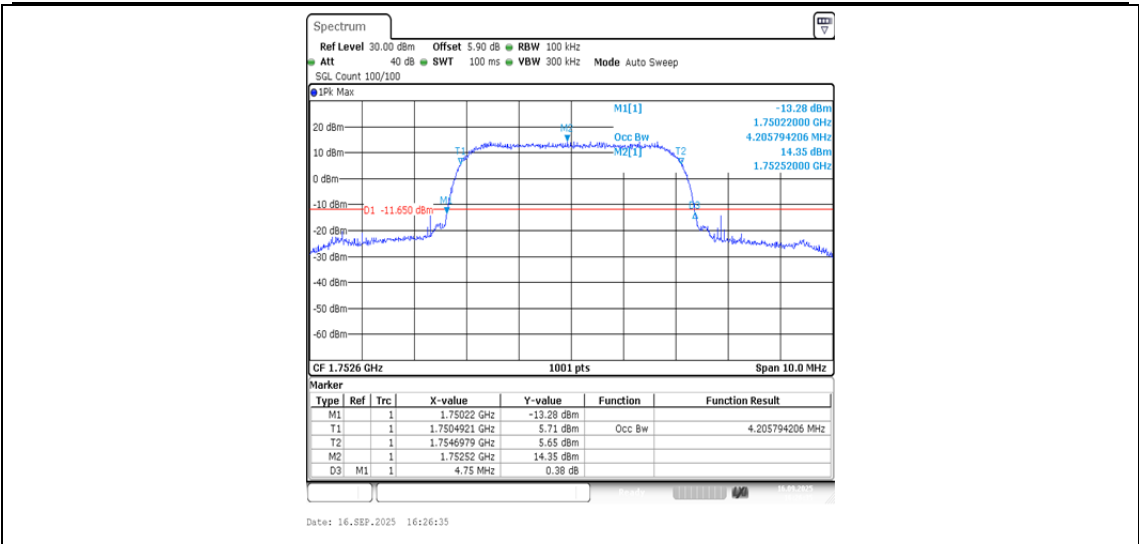
Band4-1413-5-PASS



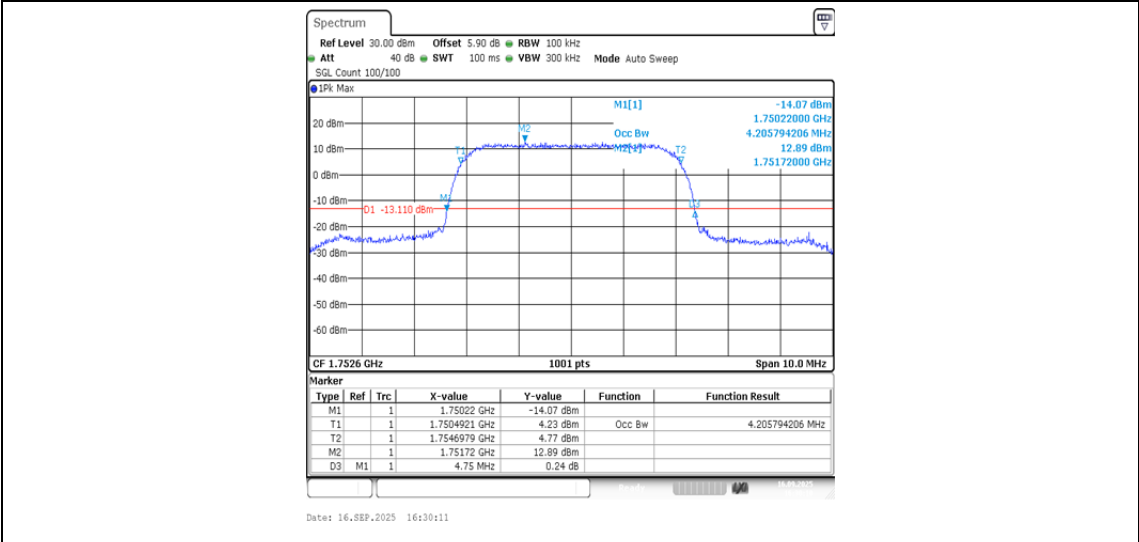
Band4-1513-1-PASS



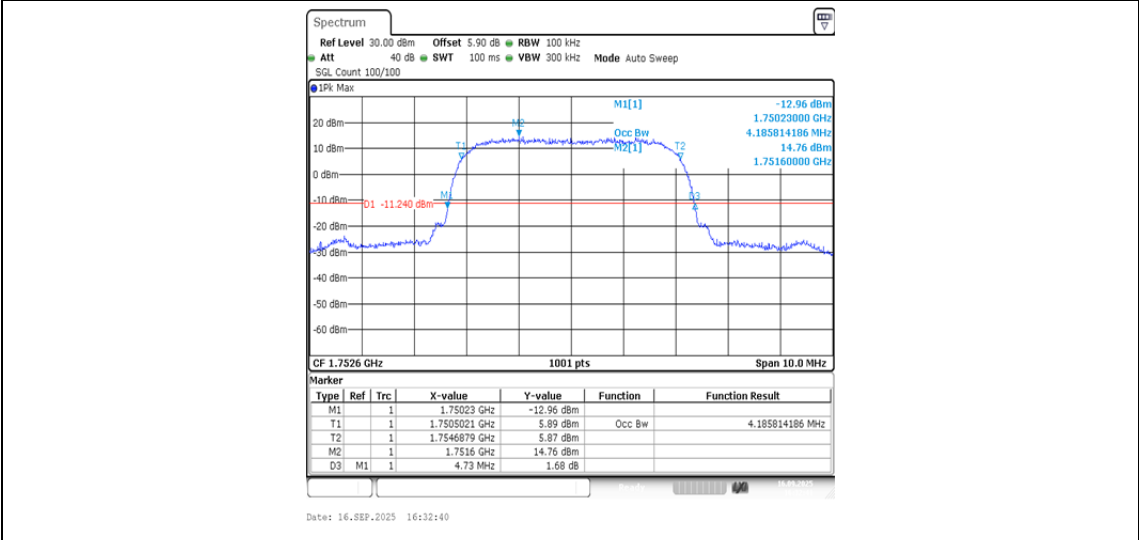
Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



Band4-1513-5-PASS

AppendixD:Band Edge

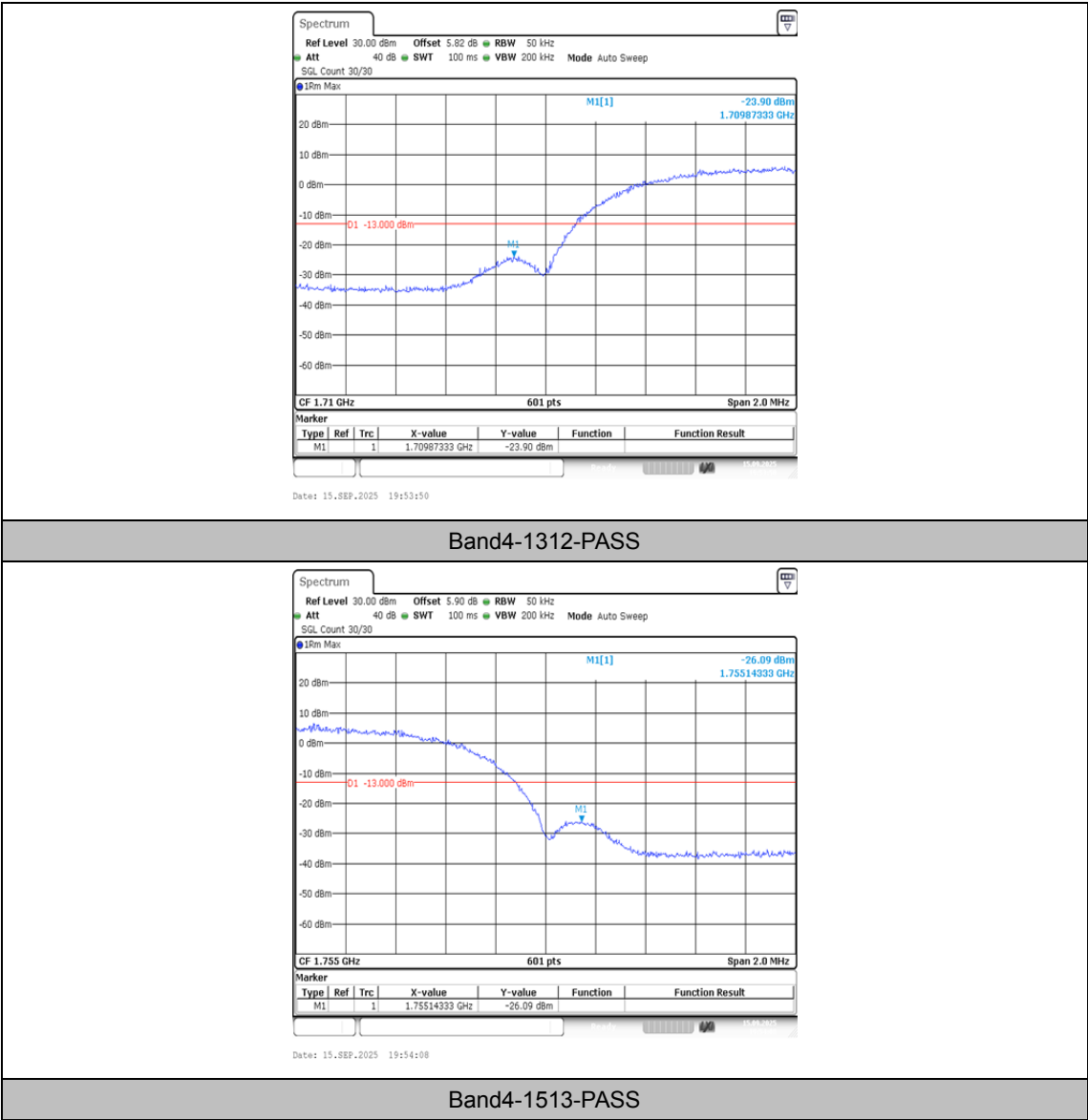
Test Result

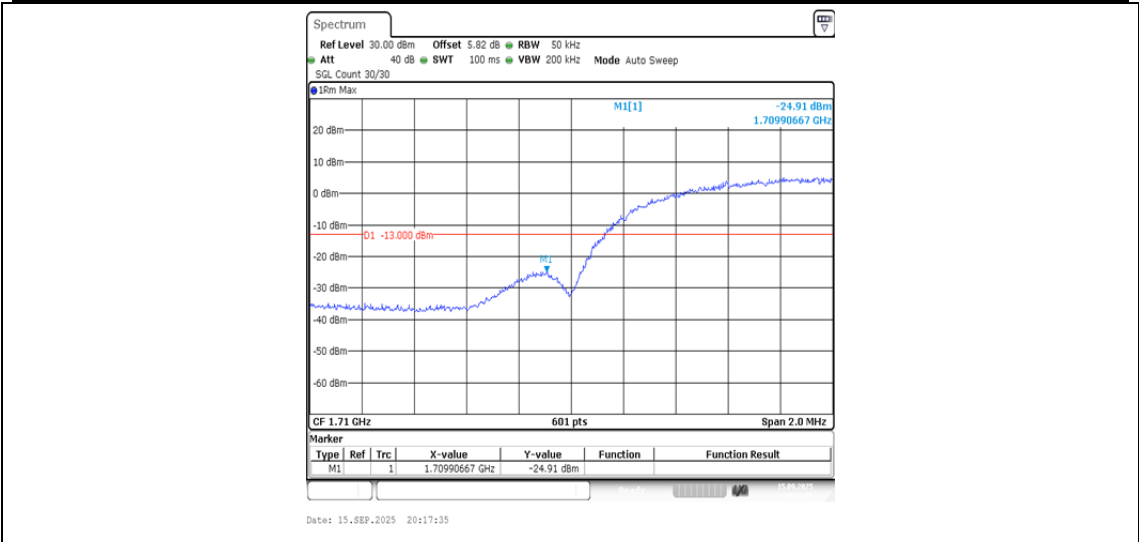
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.87	-23.90	-13	PASS
Band4	1513	1755.14	-26.09	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.91	-24.91	-13	PASS
Band4	1312	2	1709.86	-27.22	-13	PASS
Band4	1312	3	1710.00	-26.31	-13	PASS
Band4	1312	4	1710.00	-26.06	-13	PASS
Band4	1513	1	1755.11	-25.98	-13	PASS
Band4	1513	2	1755.11	-28.73	-13	PASS
Band4	1513	3	1755.00	-28.27	-13	PASS
Band4	1513	4	1755.00	-28.98	-13	PASS

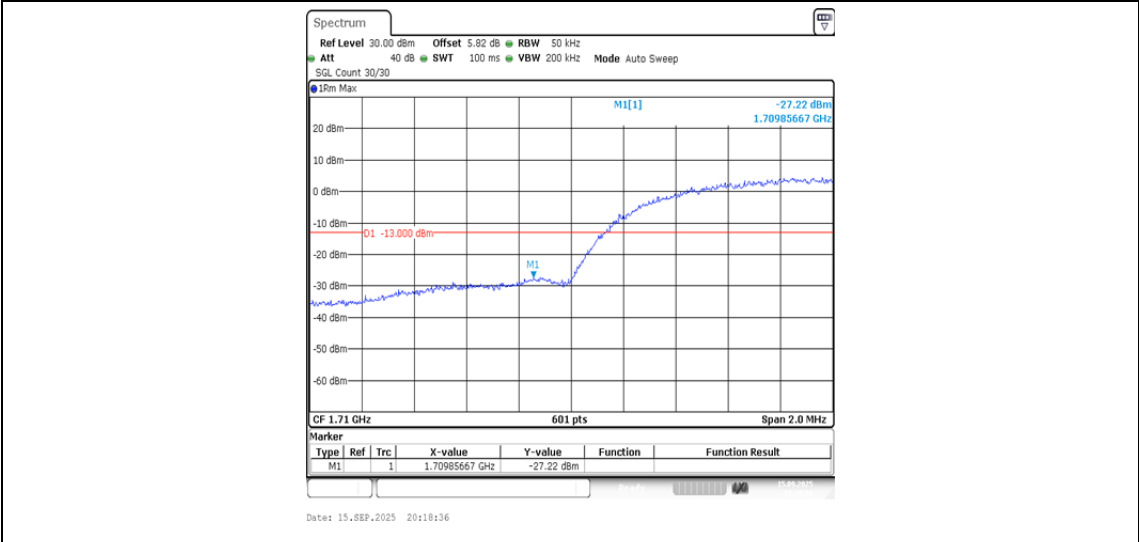
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.89	-26.71	-13	PASS
Band4	1312	2	1709.99	-26.66	-13	PASS
Band4	1312	3	1709.85	-26.05	-13	PASS
Band4	1312	4	1709.99	-25.77	-13	PASS
Band4	1312	5	1709.88	-25.80	-13	PASS
Band4	1513	1	1755.12	-28.16	-13	PASS
Band4	1513	2	1755.08	-28.09	-13	PASS
Band4	1513	3	1755.13	-27.06	-13	PASS
Band4	1513	4	1755.10	-29.99	-13	PASS
Band4	1513	5	1755.12	-28.58	-13	PASS

Test Graphs

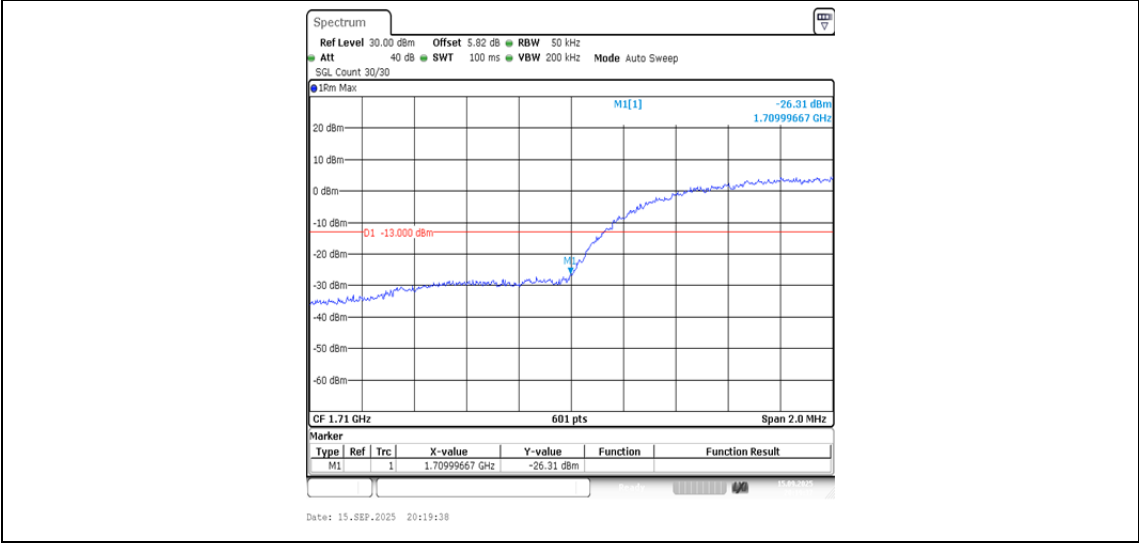




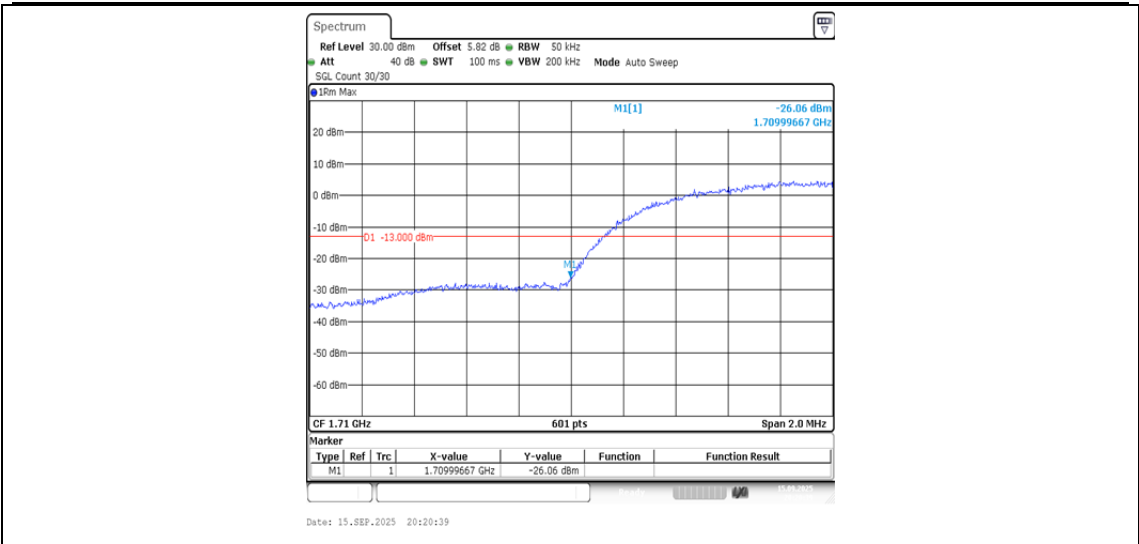
Band4-1312-1-PASS



Band4-1312-2-PASS



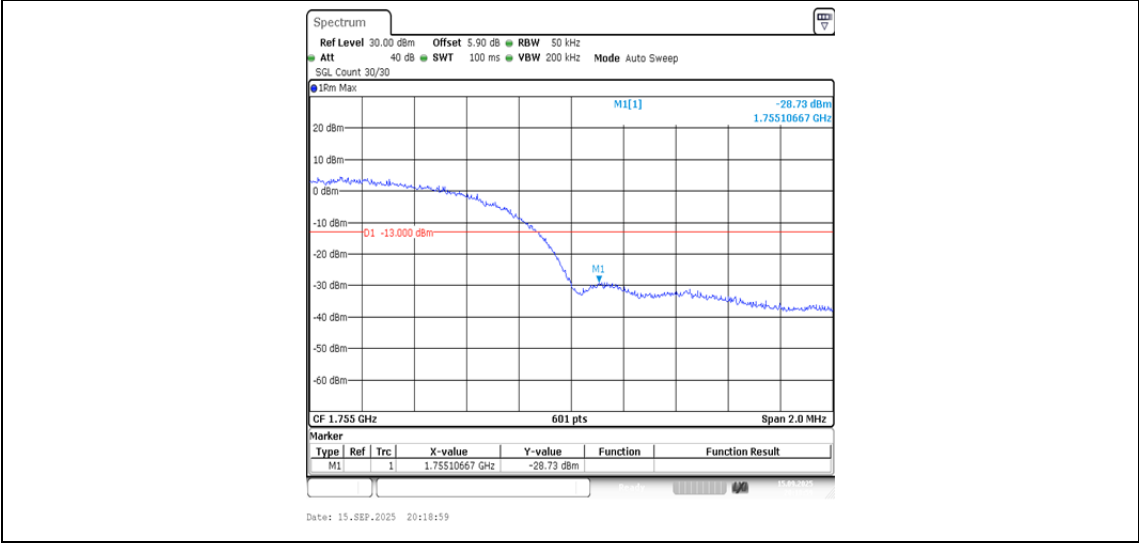
Band4-1312-3-PASS



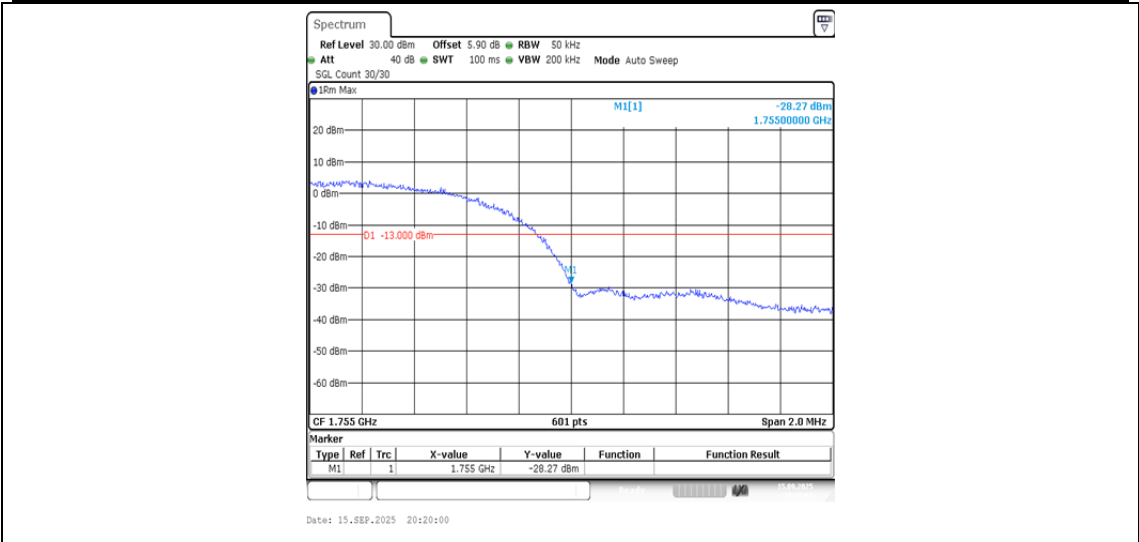
Band4-1312-4-PASS



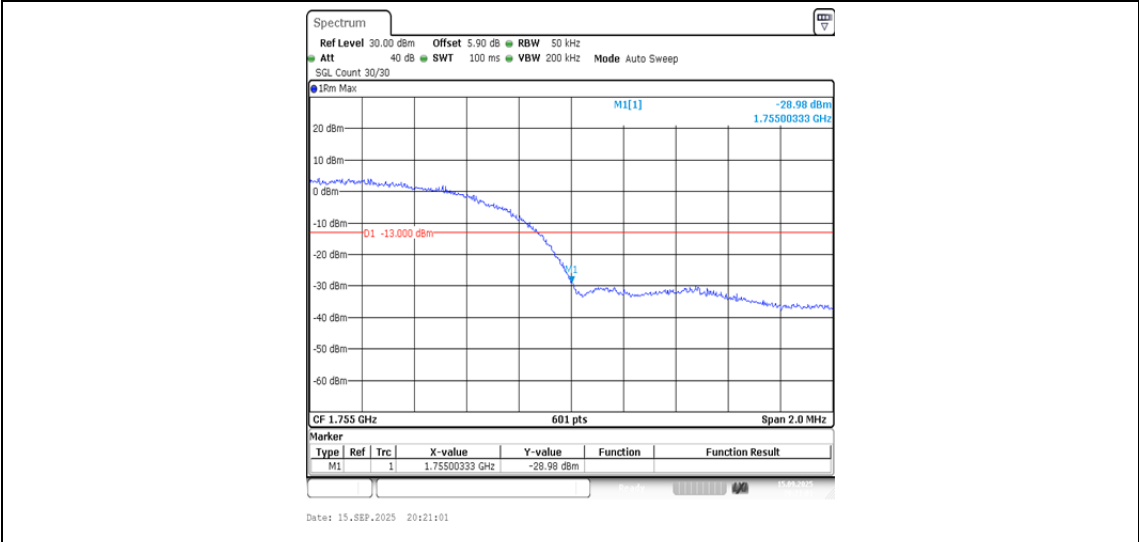
Band4-1513-1-PASS



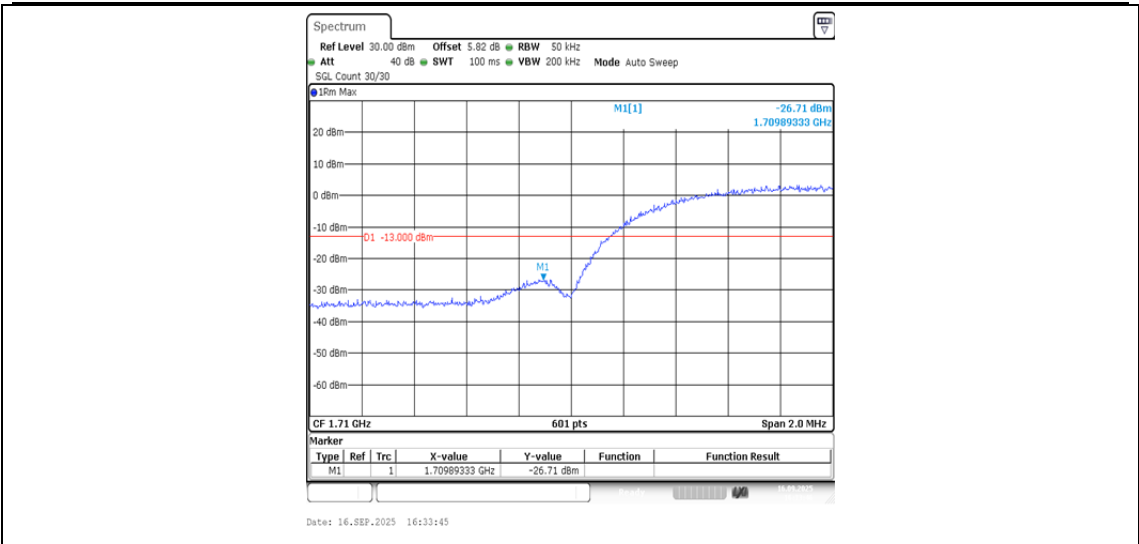
Band4-1513-2-PASS



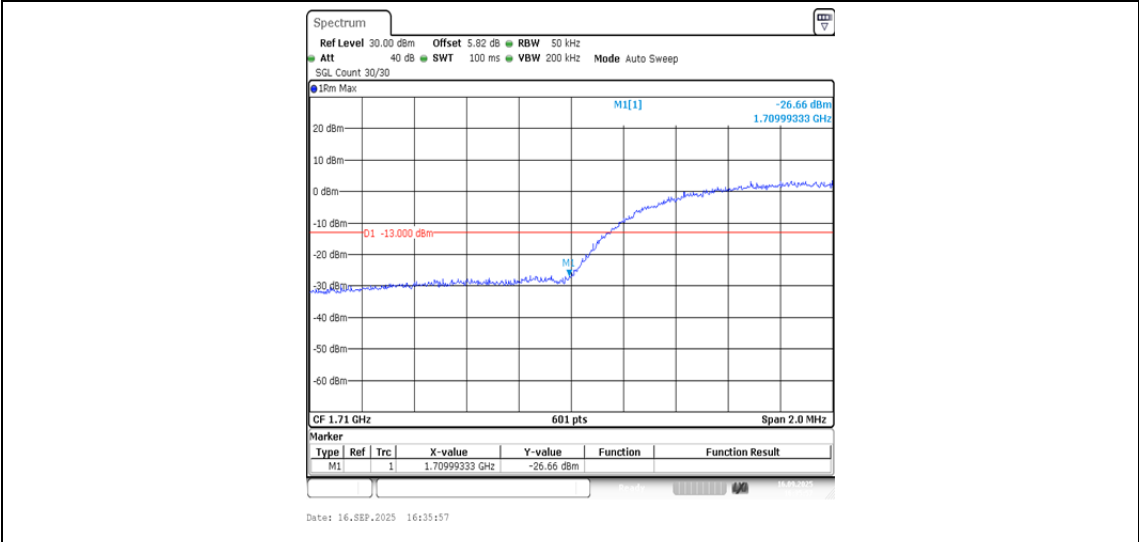
Band4-1513-3-PASS



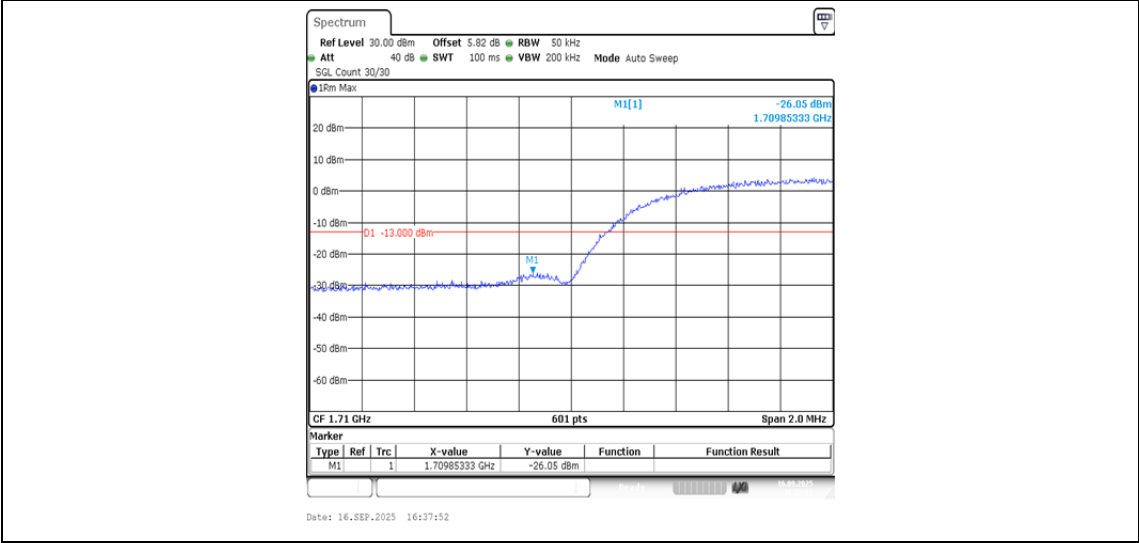
Band4-1513-4-PASS



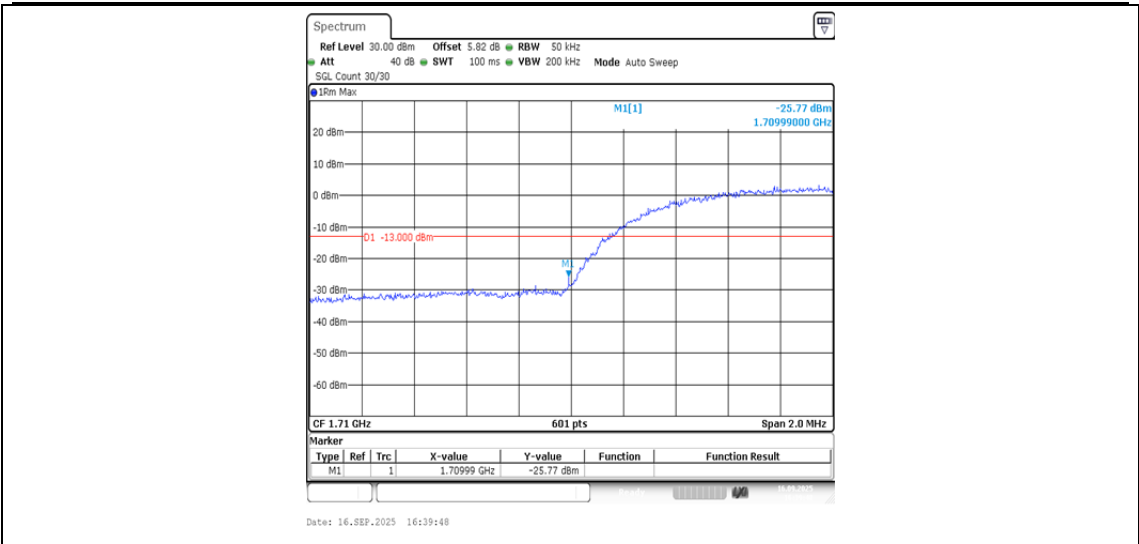
Band4-1312-1-PASS



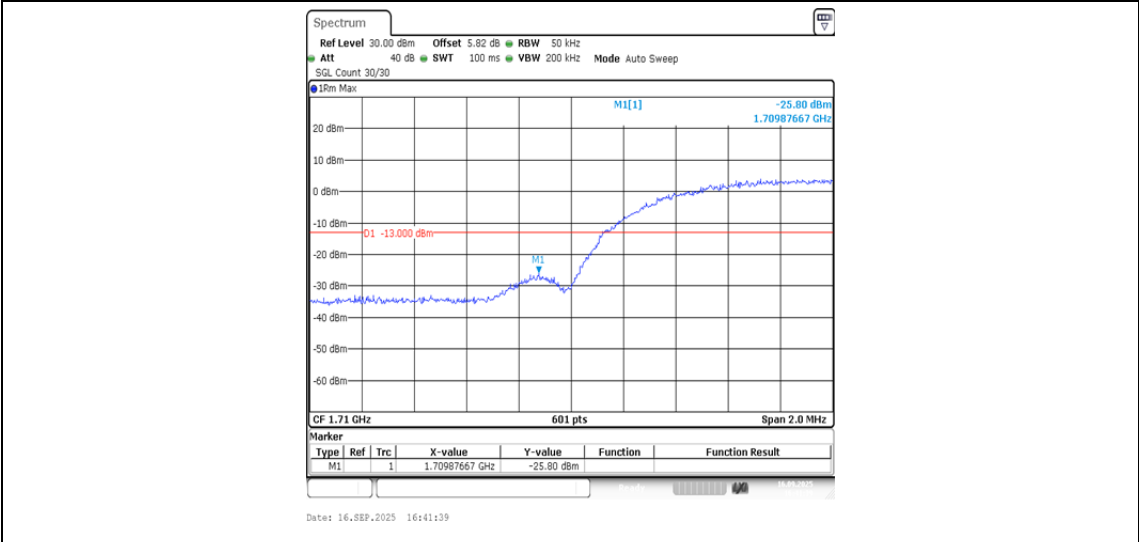
Band4-1312-2-PASS



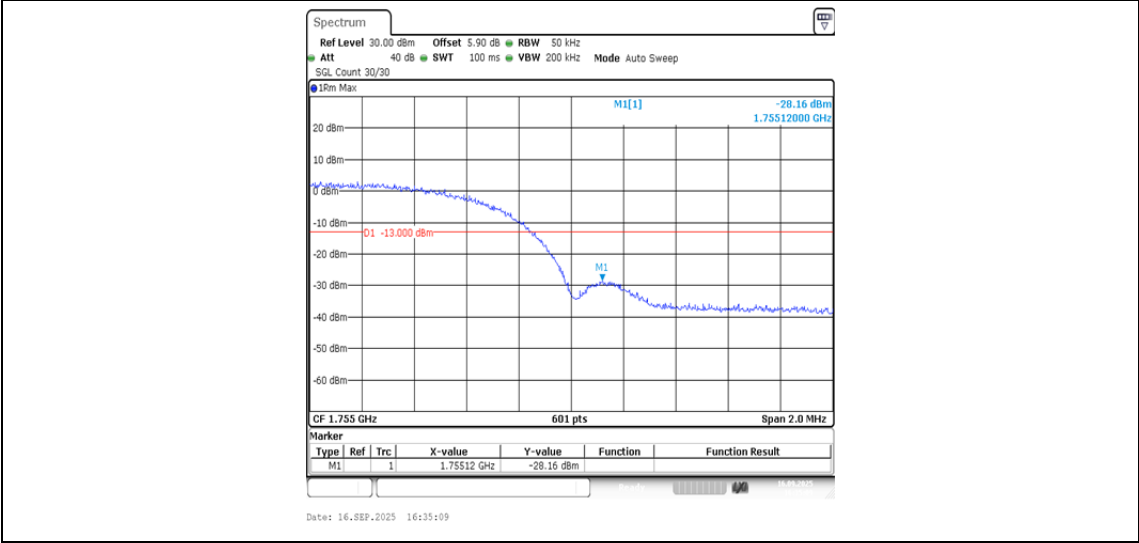
Band4-1312-3-PASS



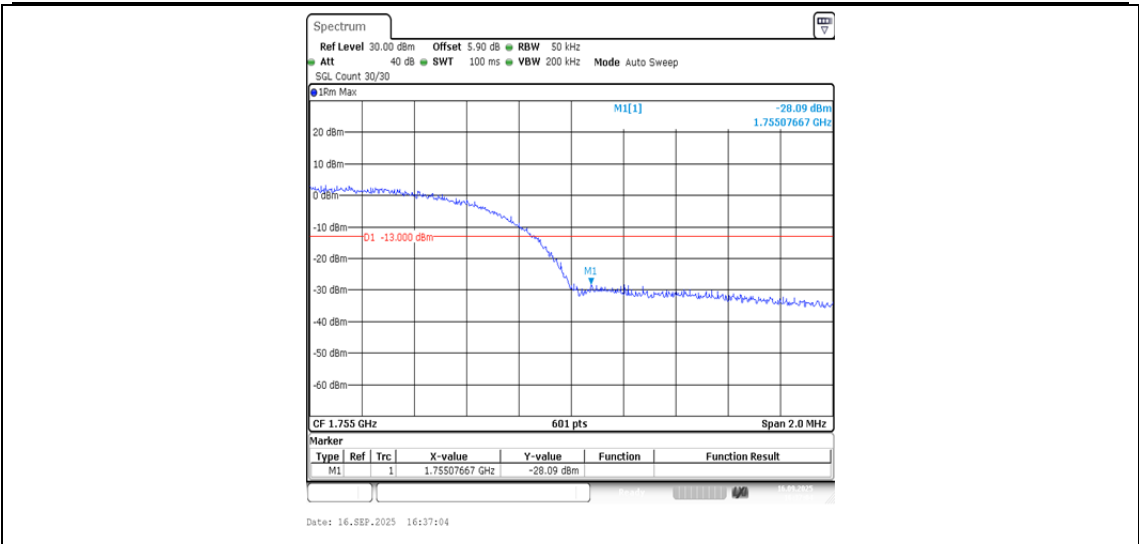
Band4-1312-4-PASS



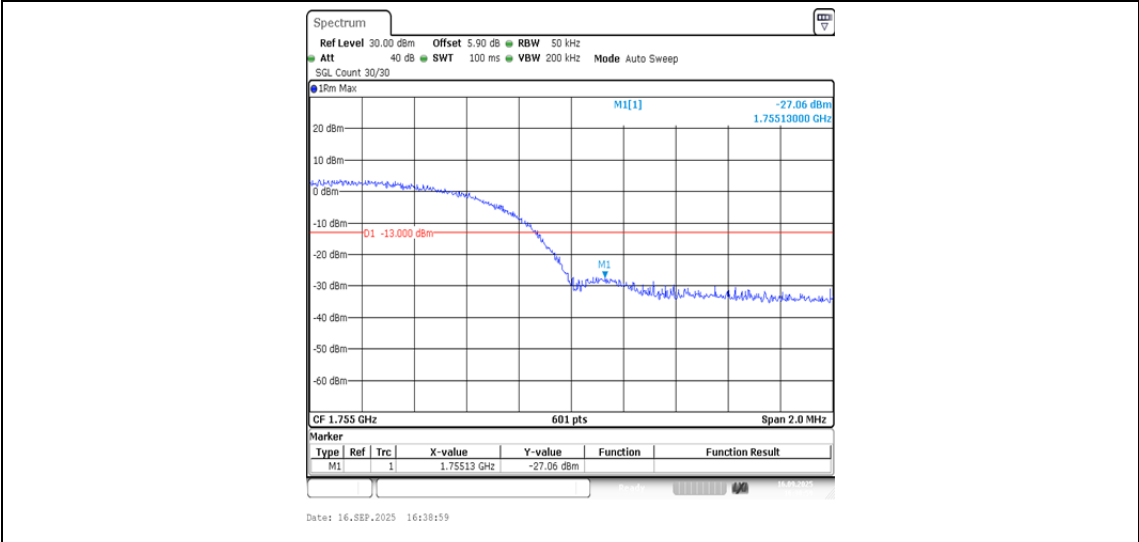
Band4-1312-5-PASS



Band4-1513-1-PASS



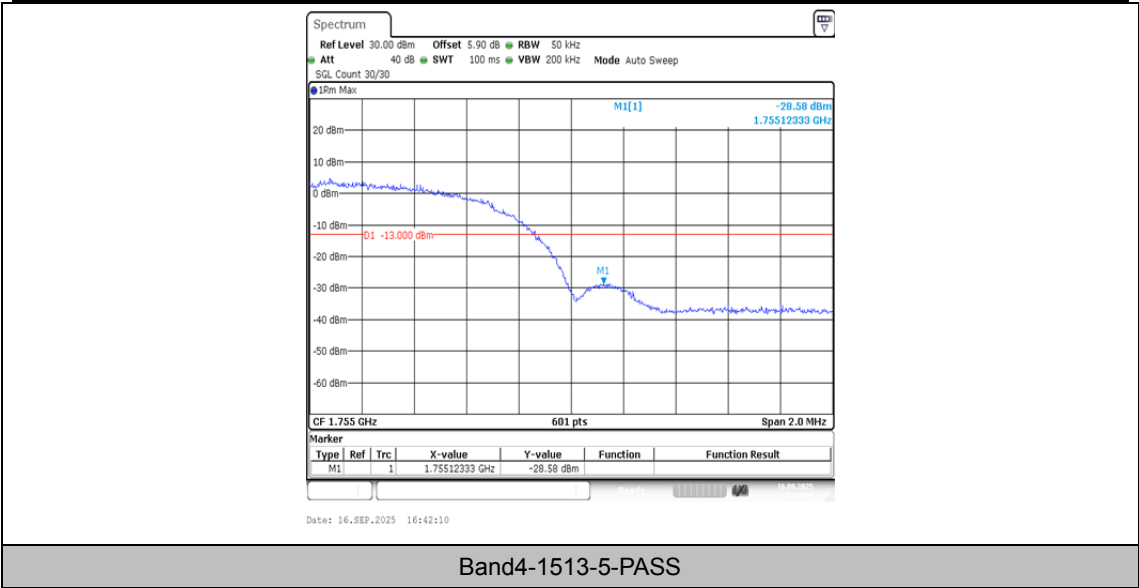
Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



AppendixE:Conducted SpuriousEmission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.01	-69.34	-43	PASS
Band4	1312	0.15~30MHz	23.88	-64.87	-33	PASS
Band4	1312	30~1000MHz	971.82	-49.8	-13	PASS
Band4	1312	1000~30000MHz	6547.7	-40.65	-13	PASS
Band4	1312	3000~20000MHz	6823.8	-37.54	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-69.32	-43	PASS
Band4	1413	0.15~30MHz	24.54	-65.58	-33	PASS
Band4	1413	30~1000MHz	954.85	-49.66	-13	PASS
Band4	1413	1000~30000MHz	6504.2	-40.68	-13	PASS
Band4	1413	3000~20000MHz	6851	-37.39	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-68.19	-43	PASS
Band4	1513	0.15~30MHz	23.76	-64.72	-33	PASS
Band4	1513	30~1000MHz	983.66	-49.8	-13	PASS
Band4	1513	1000~30000MHz	6808.7	-40.5	-13	PASS
Band4	1513	3000~20000MHz	6830.6	-37.27	-13	PASS

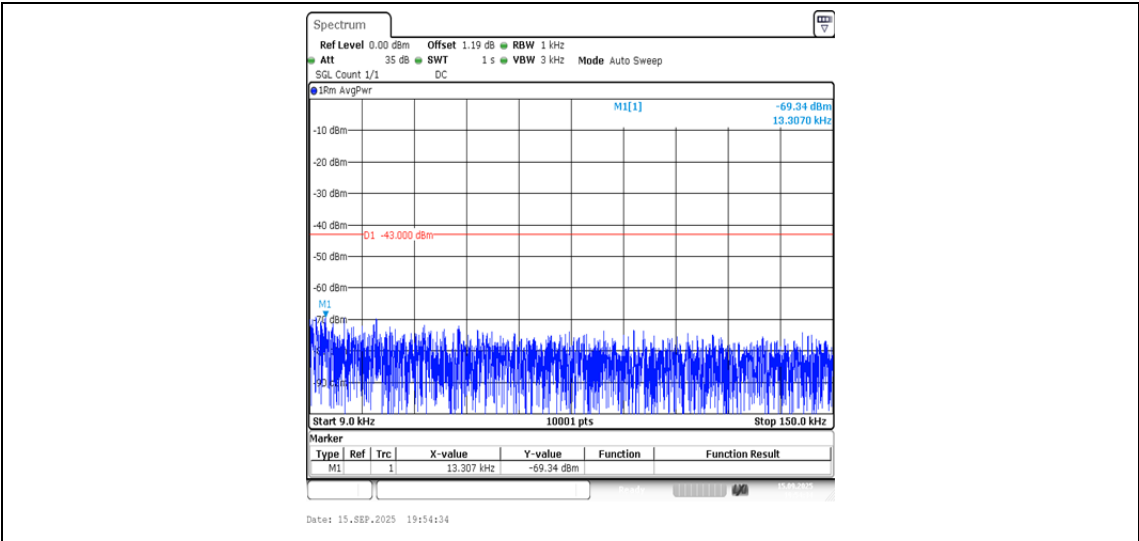
Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.009~0.15MHz	0.01	-69.24	-43	PASS
Band4	1312	1	0.15~30MHz	24.12	-64.9	-33	PASS
Band4	1312	1	30~1000MHz	881.33	-49.62	-13	PASS
Band4	1312	1	1000~30000MHz	6916	-40.58	-13	PASS
Band4	1312	1	3000~20000MHz	6964.9	-37.61	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.01	-68.82	-43	PASS
Band4	1312	2	0.15~30MHz	29.08	-66.2	-33	PASS
Band4	1312	2	30~1000MHz	991.61	-49.75	-13	PASS
Band4	1312	2	1000~30000MHz	6797.1	-40.68	-13	PASS
Band4	1312	2	3000~20000MHz	6533.1	-37.75	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.01	-70.26	-43	PASS
Band4	1312	3	0.15~30MHz	29.74	-65.64	-33	PASS
Band4	1312	3	30~1000MHz	974.15	-49.92	-13	PASS
Band4	1312	3	1000~30000MHz	6196.8	-40.69	-13	PASS
Band4	1312	3	3000~20000MHz	6895.2	-37.69	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.01	-67.46	-43	PASS
Band4	1312	4	0.15~30MHz	25.06	-64.52	-33	PASS
Band4	1312	4	30~1000MHz	917.22	-49.59	-13	PASS
Band4	1312	4	1000~30000MHz	6486.8	-40.37	-13	PASS

Band4	1312	4	3000~20000MHz	6997.2	-37.81	-13	PASS
Band4	1413	1	0.009~0.15MHz	0.01	-70.84	-43	PASS
Band4	1413	1	0.15~30MHz	21.91	-65.1	-33	PASS
Band4	1413	1	30~1000MHz	996.46	-49.73	-13	PASS
Band4	1413	1	1000~30000MHz	6831.9	-40.79	-13	PASS
Band4	1413	1	3000~20000MHz	6900.3	-37.79	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.02	-70.02	-43	PASS
Band4	1413	2	0.15~30MHz	0.15	-65.19	-33	PASS
Band4	1413	2	30~1000MHz	964.55	-49.76	-13	PASS
Band4	1413	2	1000~30000MHz	6840.6	-40.62	-13	PASS
Band4	1413	2	3000~20000MHz	6511	-37.54	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.01	-69.87	-43	PASS
Band4	1413	3	0.15~30MHz	27.72	-65.83	-33	PASS
Band4	1413	3	30~1000MHz	977.16	-49.77	-13	PASS
Band4	1413	3	1000~30000MHz	6916	-40.42	-13	PASS
Band4	1413	3	3000~20000MHz	6913.9	-37.59	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.01	-69.79	-43	PASS
Band4	1413	4	0.15~30MHz	25.86	-64.39	-33	PASS
Band4	1413	4	30~1000MHz	956.69	-49.74	-13	PASS
Band4	1413	4	1000~30000MHz	6834.8	-40.68	-13	PASS
Band4	1413	4	3000~20000MHz	6988.7	-37.69	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.01	-70.36	-43	PASS
Band4	1513	1	0.15~30MHz	24.72	-65.91	-33	PASS
Band4	1513	1	30~1000MHz	887.93	-49.54	-13	PASS
Band4	1513	1	1000~30000MHz	6869.6	-40.45	-13	PASS
Band4	1513	1	3000~20000MHz	6560.3	-37.74	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.02	-68.95	-43	PASS
Band4	1513	2	0.15~30MHz	25.98	-65.58	-33	PASS
Band4	1513	2	30~1000MHz	990.16	-49.65	-13	PASS
Band4	1513	2	1000~30000MHz	6521.6	-40.6	-13	PASS
Band4	1513	2	3000~20000MHz	6908.8	-37.51	-13	PASS
Band4	1513	3	0.009~0.15MHz	0.01	-68.12	-43	PASS
Band4	1513	3	0.15~30MHz	24.51	-64.97	-33	PASS
Band4	1513	3	30~1000MHz	992	-49.66	-13	PASS
Band4	1513	3	1000~30000MHz	6985.6	-40.56	-13	PASS
Band4	1513	3	3000~20000MHz	6511	-37.75	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.01	-69.81	-43	PASS
Band4	1513	4	0.15~30MHz	26.84	-65.07	-33	PASS
Band4	1513	4	30~1000MHz	985.21	-49.74	-13	PASS
Band4	1513	4	1000~30000MHz	6797.1	-40.48	-13	PASS
Band4	1513	4	3000~20000MHz	6866.3	-37.72	-13	PASS

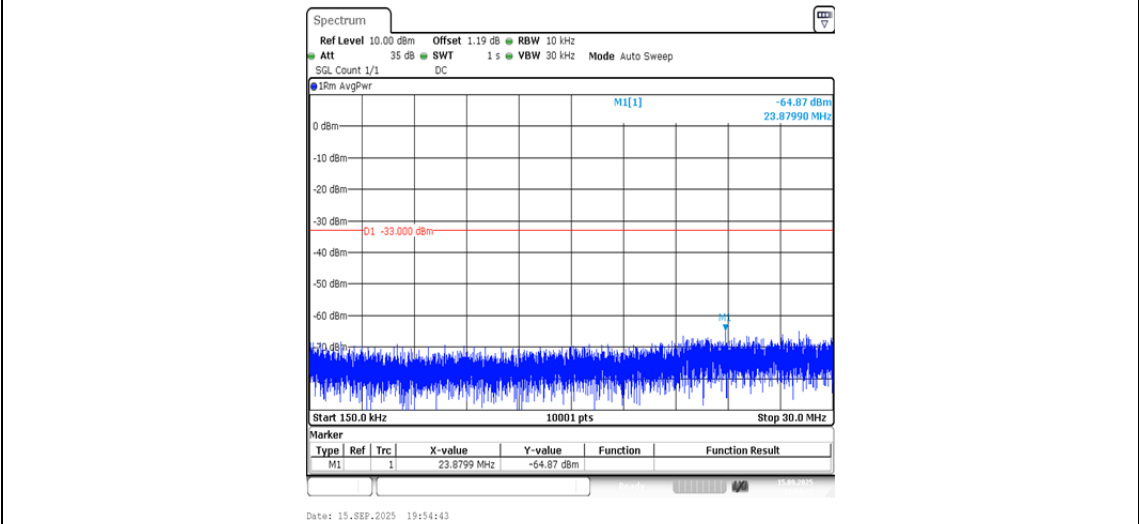
Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.009~0.15MHz	0.01	-68.18	-43	PASS
Band4	1312	1	0.15~30MHz	0.28	-65.5	-33	PASS
Band4	1312	1	30~1000MHz	939.72	-49.79	-13	PASS
Band4	1312	1	1000~30000MHz	6773.9	-40.43	-13	PASS
Band4	1312	1	3000~20000MHz	6864.6	-38	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.01	-68.72	-43	PASS
Band4	1312	2	0.15~30MHz	24.27	-64.44	-33	PASS
Band4	1312	2	30~1000MHz	982.01	-49.67	-13	PASS
Band4	1312	2	1000~30000MHz	6933.4	-40.59	-13	PASS
Band4	1312	2	3000~20000MHz	6856.1	-37.7	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.01	-68.96	-43	PASS
Band4	1312	3	0.15~30MHz	27.95	-63.6	-33	PASS
Band4	1312	3	30~1000MHz	937.49	-49.73	-13	PASS
Band4	1312	3	1000~30000MHz	6866.7	-40.78	-13	PASS
Band4	1312	3	3000~20000MHz	6519.5	-37.63	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.01	-70.6	-43	PASS
Band4	1312	4	0.15~30MHz	22.34	-65.49	-33	PASS
Band4	1312	4	30~1000MHz	948.45	-49.6	-13	PASS
Band4	1312	4	1000~30000MHz	6985.6	-40.63	-13	PASS
Band4	1312	4	3000~20000MHz	6548.4	-37.75	-13	PASS
Band4	1312	5	0.009~0.15MHz	0.01	-69.88	-43	PASS
Band4	1312	5	0.15~30MHz	28.17	-63.55	-33	PASS
Band4	1312	5	30~1000MHz	988.22	-49.58	-13	PASS
Band4	1312	5	1000~30000MHz	6884.1	-40.67	-13	PASS
Band4	1312	5	3000~20000MHz	6927.5	-37.85	-13	PASS
Band4	1413	1	0.009~0.15MHz	0.01	-70.91	-43	PASS
Band4	1413	1	0.15~30MHz	23.44	-65.57	-33	PASS
Band4	1413	1	30~1000MHz	969.59	-49.45	-13	PASS
Band4	1413	1	1000~30000MHz	6510	-40.71	-13	PASS
Band4	1413	1	3000~20000MHz	6917.3	-37.82	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.02	-69.84	-43	PASS
Band4	1413	2	0.15~30MHz	26.58	-65.46	-33	PASS
Band4	1413	2	30~1000MHz	966.78	-49.62	-13	PASS
Band4	1413	2	1000~30000MHz	6504.2	-40.55	-13	PASS
Band4	1413	2	3000~20000MHz	6854.4	-37.68	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.01	-70.9	-43	PASS
Band4	1413	3	0.15~30MHz	22.7	-65.23	-33	PASS
Band4	1413	3	30~1000MHz	992.77	-49.72	-13	PASS
Band4	1413	3	1000~30000MHz	6530.3	-40.8	-13	PASS

Band4	1413	3	3000~20000MHz	6978.5	-37.85	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.01	-68.03	-43	PASS
Band4	1413	4	0.15~30MHz	29.64	-64.37	-33	PASS
Band4	1413	4	30~1000MHz	942.34	-49.71	-13	PASS
Band4	1413	4	1000~30000MHz	6721.7	-40.82	-13	PASS
Band4	1413	4	3000~20000MHz	6541.6	-37.81	-13	PASS
Band4	1413	5	0.009~0.15MHz	0.02	-71.39	-43	PASS
Band4	1413	5	0.15~30MHz	26.7	-65.35	-33	PASS
Band4	1413	5	30~1000MHz	945.83	-49.67	-13	PASS
Band4	1413	5	1000~30000MHz	6939.2	-40.64	-13	PASS
Band4	1413	5	3000~20000MHz	6903.7	-37.79	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.03	-70.15	-43	PASS
Band4	1513	1	0.15~30MHz	28.2	-65.14	-33	PASS
Band4	1513	1	30~1000MHz	945.93	-49.83	-13	PASS
Band4	1513	1	1000~30000MHz	6568	-40.53	-13	PASS
Band4	1513	1	3000~20000MHz	6845.9	-37.69	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.01	-68.37	-43	PASS
Band4	1513	2	0.15~30MHz	26.78	-65.21	-33	PASS
Band4	1513	2	30~1000MHz	934.87	-49.65	-13	PASS
Band4	1513	2	1000~30000MHz	6863.8	-40.79	-13	PASS
Band4	1513	2	3000~20000MHz	6990.4	-37.51	-13	PASS
Band4	1513	3	0.009~0.15MHz	0.01	-68.69	-43	PASS
Band4	1513	3	0.15~30MHz	25.78	-65.91	-33	PASS
Band4	1513	3	30~1000MHz	990.25	-49.46	-13	PASS
Band4	1513	3	1000~30000MHz	6846.4	-40.41	-13	PASS
Band4	1513	3	3000~20000MHz	6556.9	-37.75	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.01	-68.36	-43	PASS
Band4	1513	4	0.15~30MHz	27.79	-65.31	-33	PASS
Band4	1513	4	30~1000MHz	996.65	-49.66	-13	PASS
Band4	1513	4	1000~30000MHz	6829	-40.65	-13	PASS
Band4	1513	4	3000~20000MHz	6851	-37.61	-13	PASS
Band4	1513	5	0.009~0.15MHz	0.02	-69.88	-43	PASS
Band4	1513	5	0.15~30MHz	28.54	-65.11	-33	PASS
Band4	1513	5	30~1000MHz	926.53	-49.81	-13	PASS
Band4	1513	5	1000~30000MHz	6521.6	-40.59	-13	PASS
Band4	1513	5	3000~20000MHz	6847.6	-37.68	-13	PASS

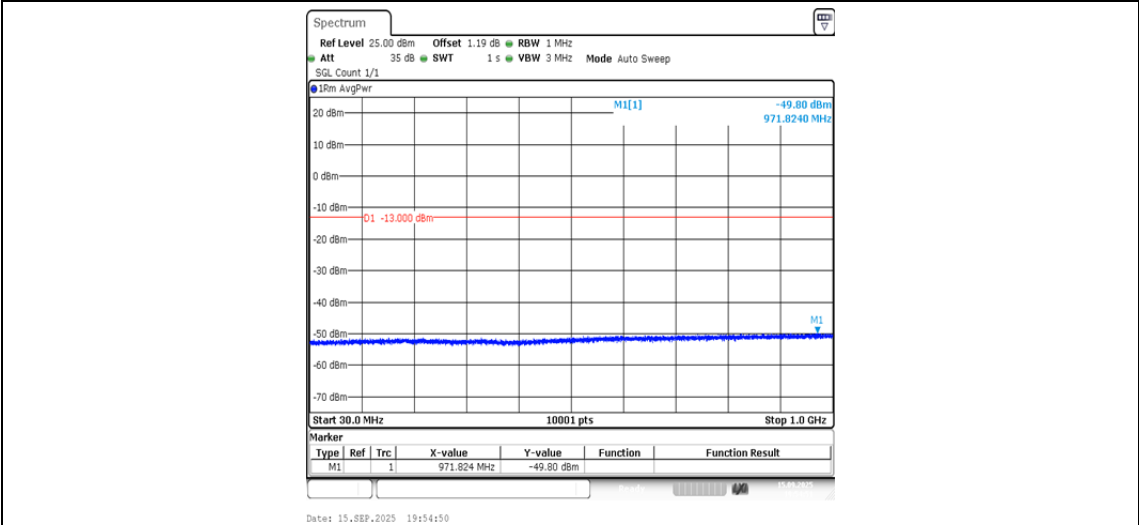
Test Graphs



Band4-1312-0.009~0.15MHz-PASS



Band4-1312-0.15~30MHz-PASS



Band4-1312-30~1000MHz-PASS