



CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
Tel: +86-755-27521059 Fax: +86-755-27521011 [Http://www.sz-ctc.org.cn](http://www.sz-ctc.org.cn)

Appendix for LTE Band 13

Applicant: AIR-U Co., Ltd.

**Address: Yamaki 2nd BLDG, 8F, 3-4-2, Nishishinbashi, Minato-ku,
Tokyo, Japan**

Product Name: 4G Wireless Data Terminal

Model: CAW23A301

FCC ID: 2ATHM-CAW23A301

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1 Summary of Test Results Data and Graph

1.1. Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.37	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.35	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.13	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.38	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.33	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.33	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.27	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.16	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.33	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.95	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.38	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.29	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.22	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.18	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.41	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.34	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.23	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.26	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.30	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.17	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.20	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.10	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.29	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.89	PASS
Band13	5MHz	16QAM	23205	12RB#0	23.34	PASS
Band13	5MHz	16QAM	23205	12RB#6	23.33	PASS
Band13	5MHz	16QAM	23205	12RB#13	23.36	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.20	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.09	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.28	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.19	PASS
Band13	5MHz	16QAM	23230	12RB#0	23.38	PASS
Band13	5MHz	16QAM	23230	12RB#6	23.30	PASS

Band13	5MHz	16QAM	23230	12RB#13	23.22	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.36	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.04	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.21	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.79	PASS
Band13	5MHz	16QAM	23255	12RB#0	23.29	PASS
Band13	5MHz	16QAM	23255	12RB#6	23.30	PASS
Band13	5MHz	16QAM	23255	12RB#13	23.14	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.18	PASS

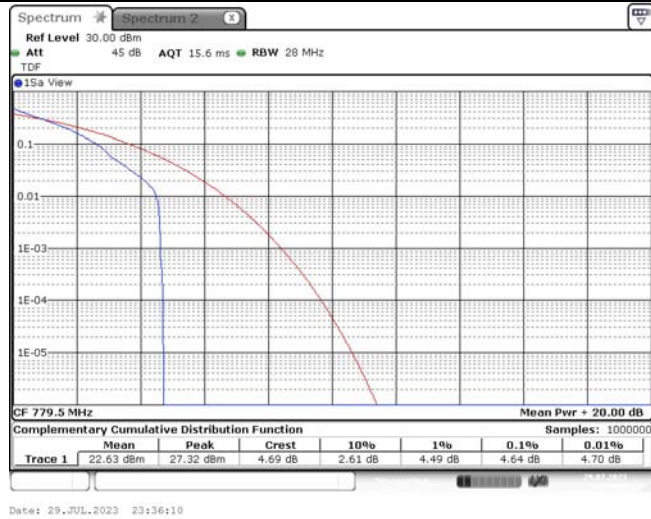
1.2. Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.64	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.19	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.55	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.10	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.41	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.22	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.57	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.00	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.39	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.91	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.25	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.00	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.61	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.07	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.65	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.97	13	PASS

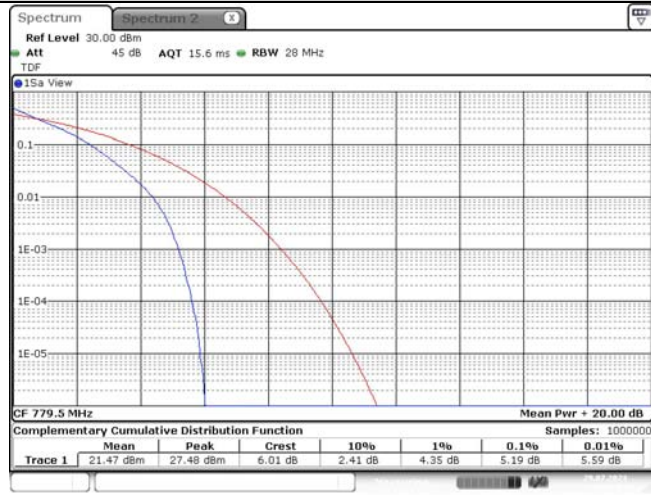
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



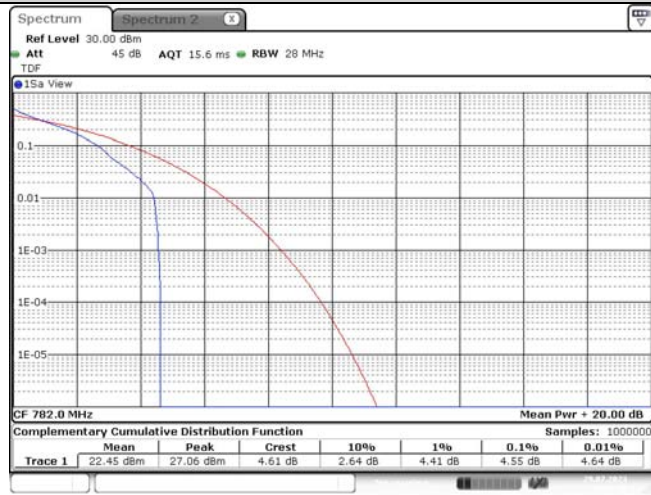
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Band13-5MHz-QPSK-23205-25RB#0



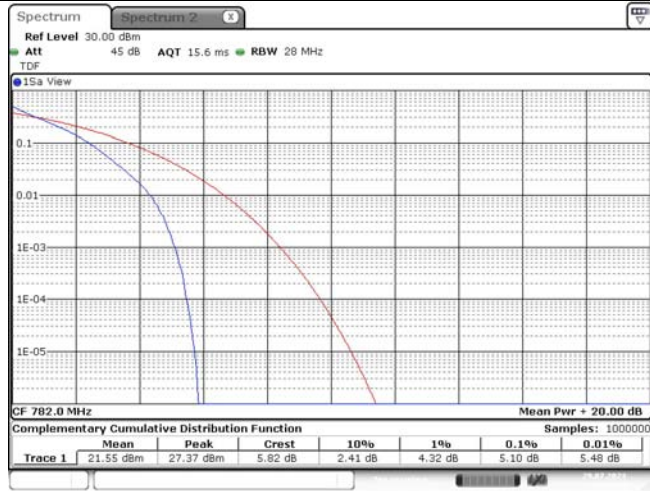
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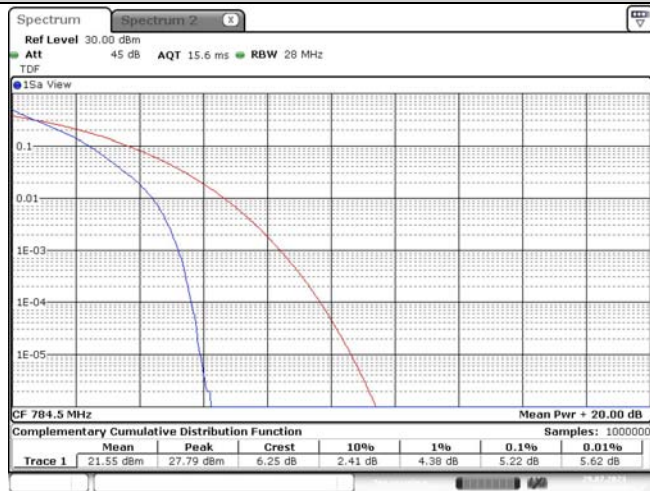
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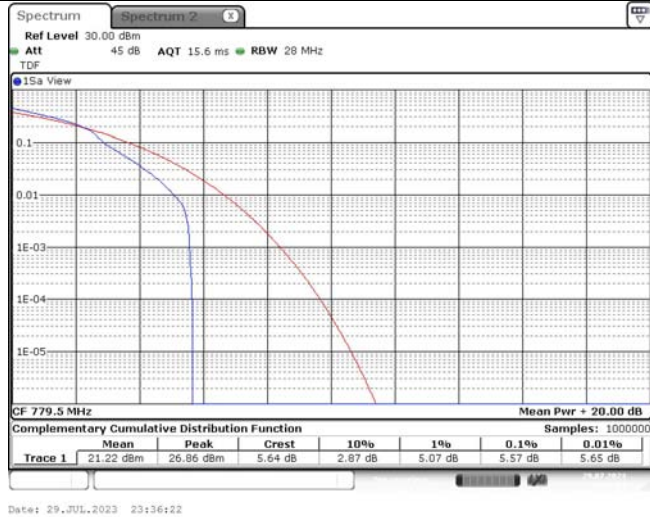
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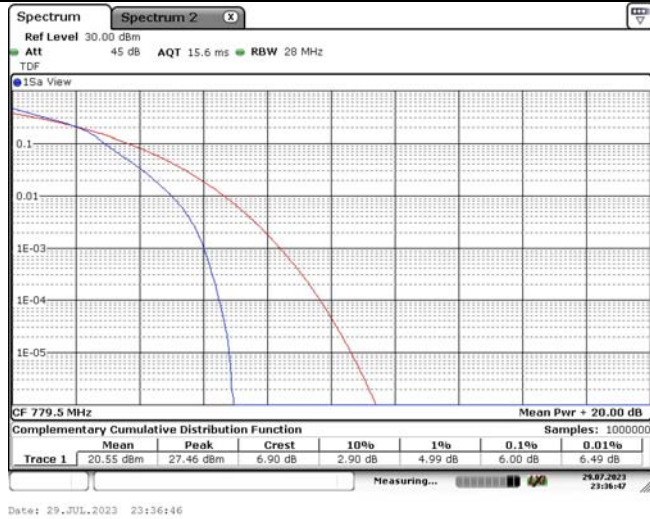


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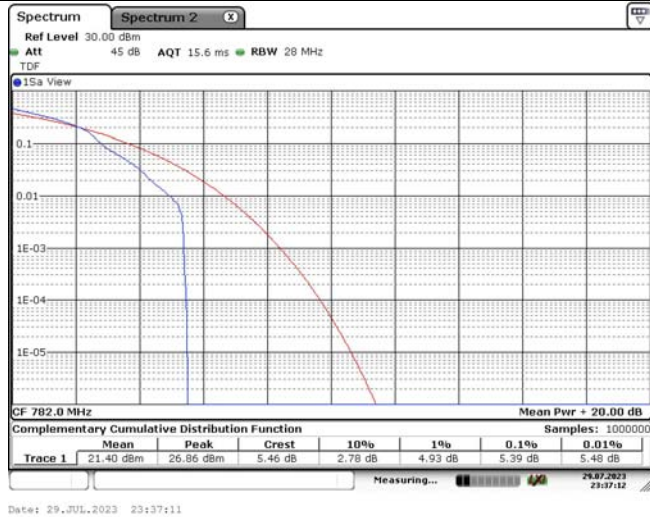
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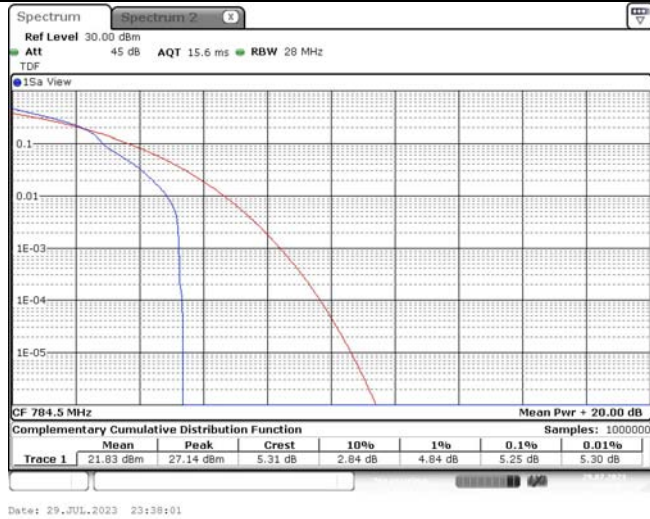
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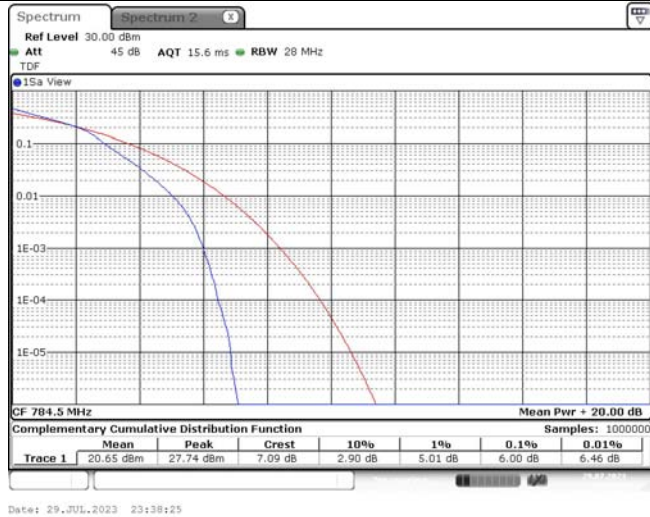
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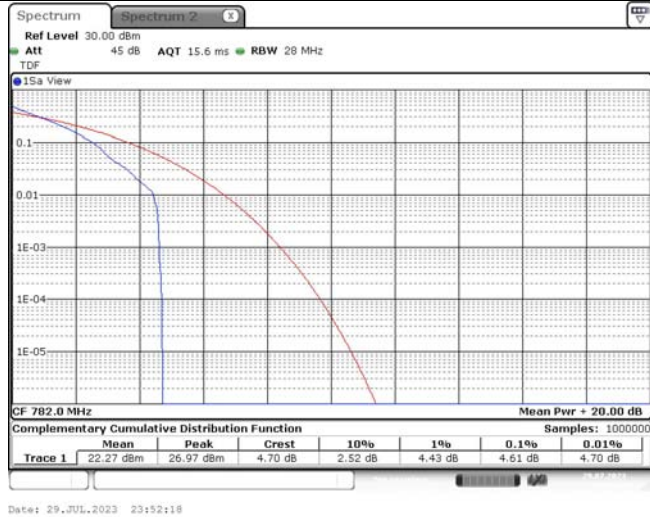
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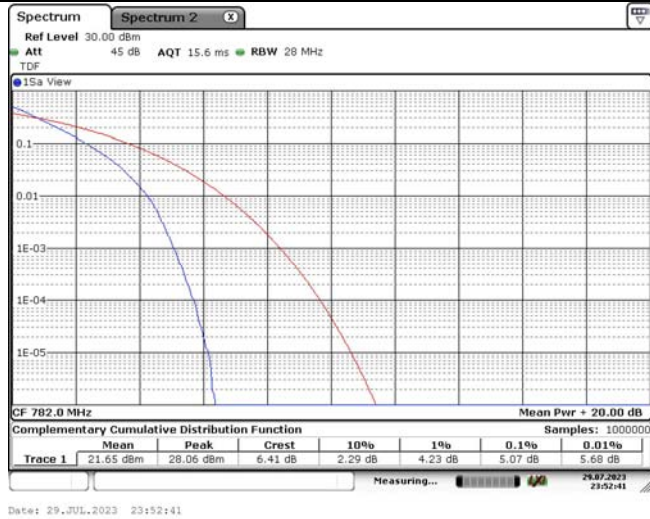
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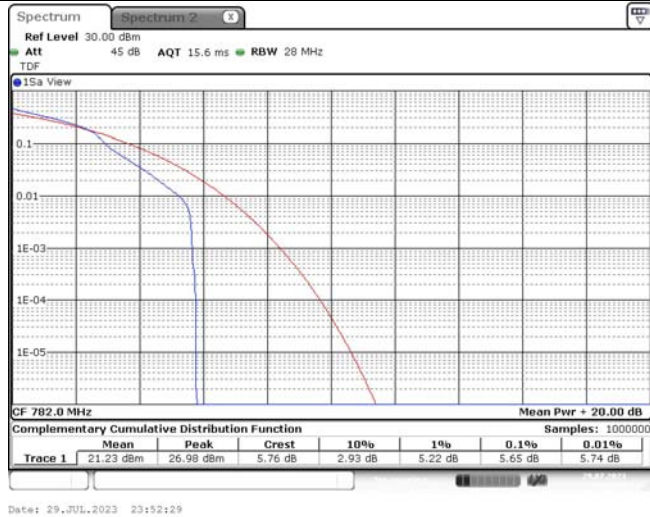
Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-50RB#0



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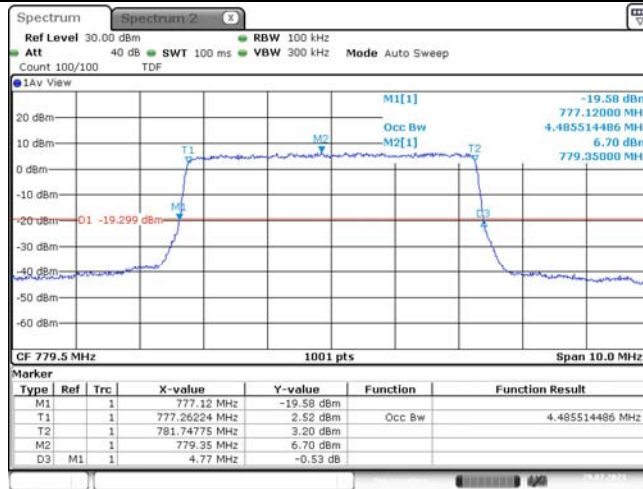
1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.486	4.770	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.486	4.770	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.505	4.800	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.486	4.770	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.496	4.780	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.515	4.780	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.952	9.533	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.918	9.533	PASS

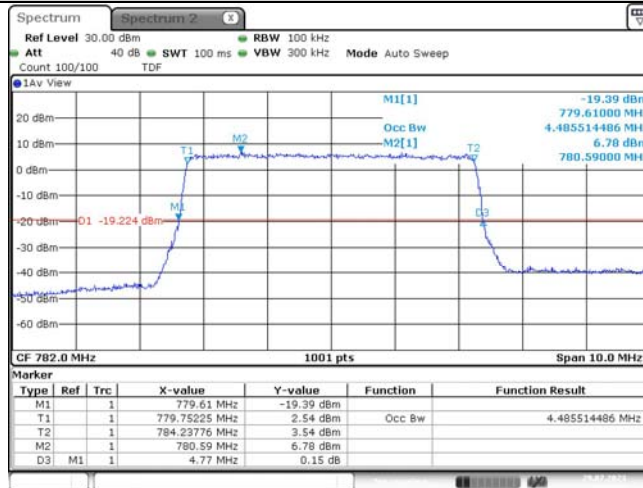
Test Graphs

Band13-5MHz-QPSK-23205-25RB#0-4.486



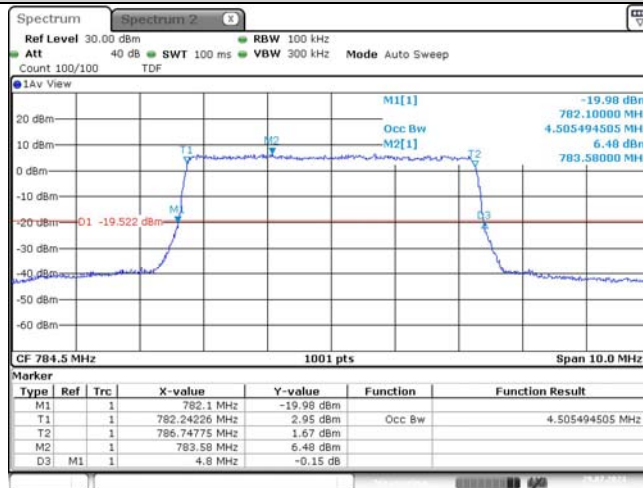
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Band13-5MHz-QPSK-23230-25RB#0-4.486



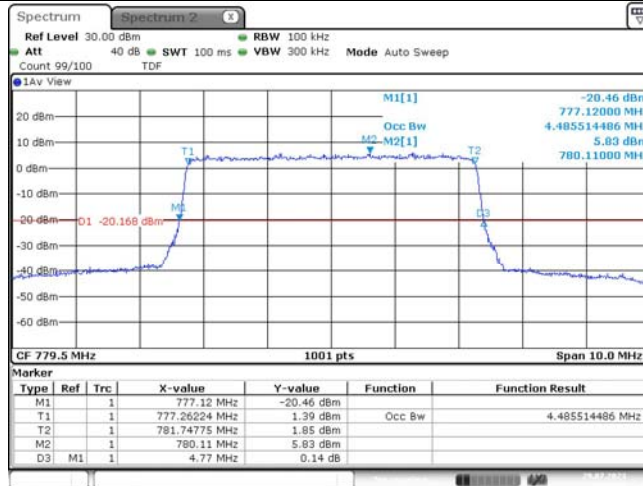
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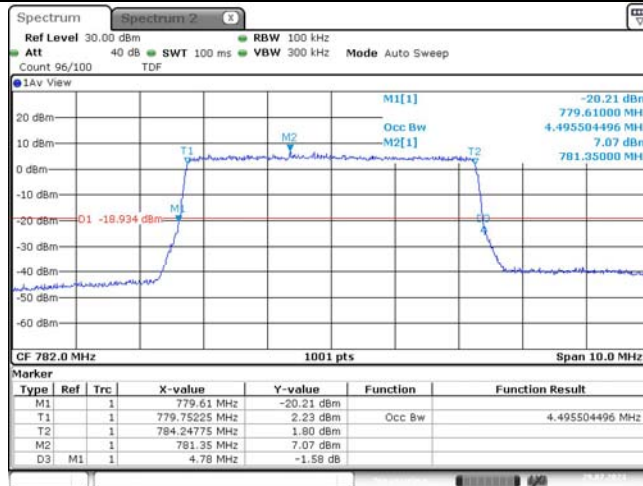


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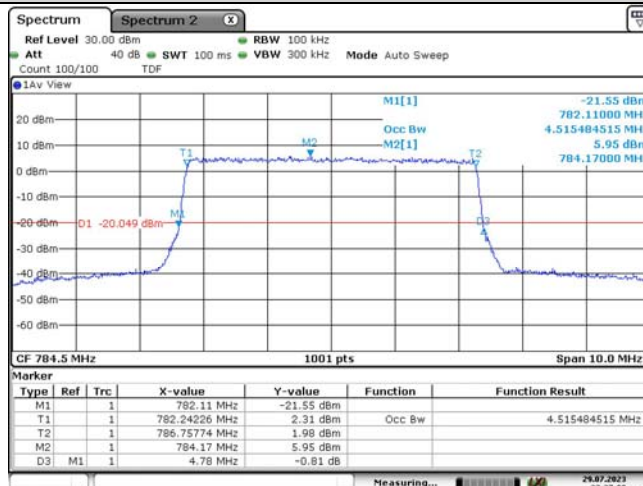
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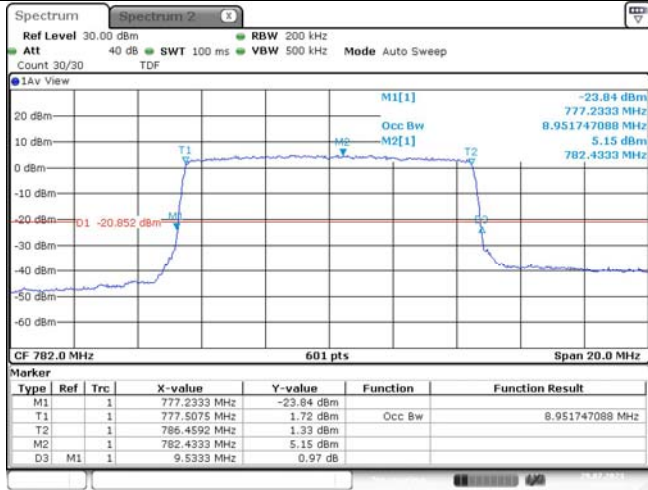
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Band13-5MHz-16QAM-23255-25RB#0-4.515

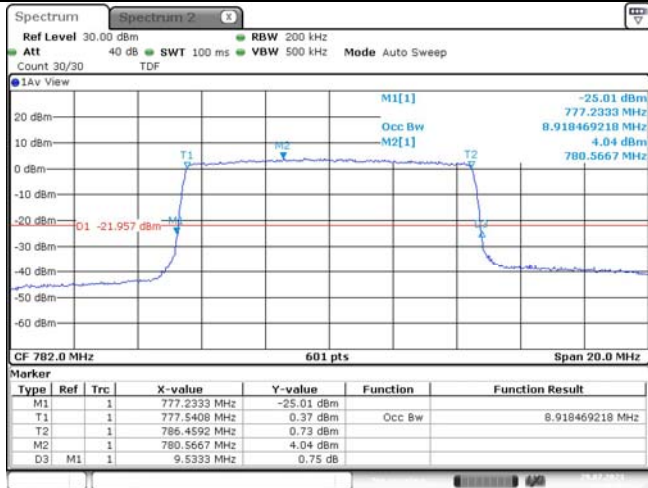


Band13-10MHz-QPSK-23230-50RB#0-8.952



Date: 29.JUL.2023 23:43:51

Band13-10MHz-16QAM-23230-50RB#0-8.918



Date: 29.JUL.2023 23:44:07

1.4. Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-26.50	PASS
Band13	5MHz	QPSK	23205	1RB#24	-54.71	PASS
Band13	5MHz	QPSK	23205	25RB#0	-33.72	PASS
Band13	5MHz	QPSK	23255	1RB#0	-54.53	PASS
Band13	5MHz	QPSK	23255	1RB#24	-27.54	PASS
Band13	5MHz	QPSK	23255	25RB#0	-34.04	PASS
Band13	5MHz	16QAM	23205	1RB#0	-28.68	PASS
Band13	5MHz	16QAM	23205	1RB#24	-55.04	PASS
Band13	5MHz	16QAM	23205	25RB#0	-34.47	PASS
Band13	5MHz	16QAM	23255	1RB#0	-54.88	PASS
Band13	5MHz	16QAM	23255	1RB#24	-28.15	PASS
Band13	5MHz	16QAM	23255	25RB#0	-34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	-15.53,-46.64	PASS
Band13	10MHz	QPSK	23230	1RB#49	-46.68,-13.75	PASS
Band13	10MHz	QPSK	23230	50RB#0	-30.39,-28.35	PASS
Band13	10MHz	16QAM	23230	1RB#0	-17.08,-47.04	PASS
Band13	10MHz	16QAM	23230	1RB#49	-47.21,-15.26	PASS
Band13	10MHz	16QAM	23230	50RB#0	-31.24,-29.66	PASS

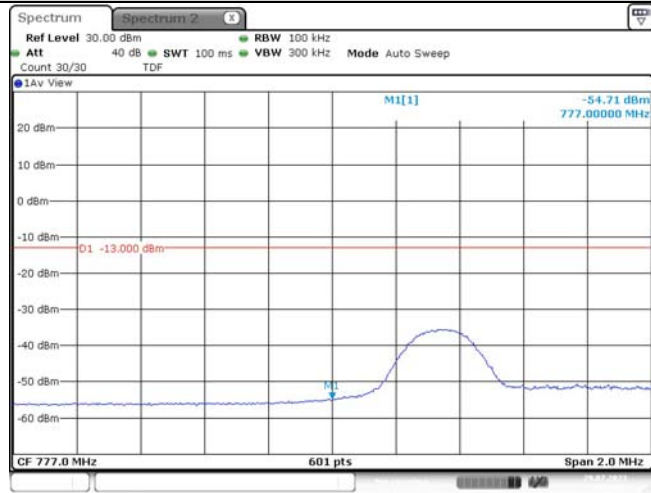
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



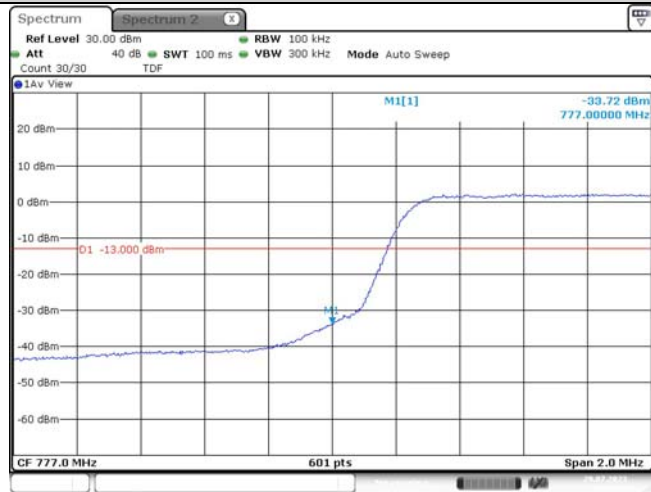
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Date: 29.JUL.2023 23:27:56

Band13-5MHz-QPSK-23205-25RB#0



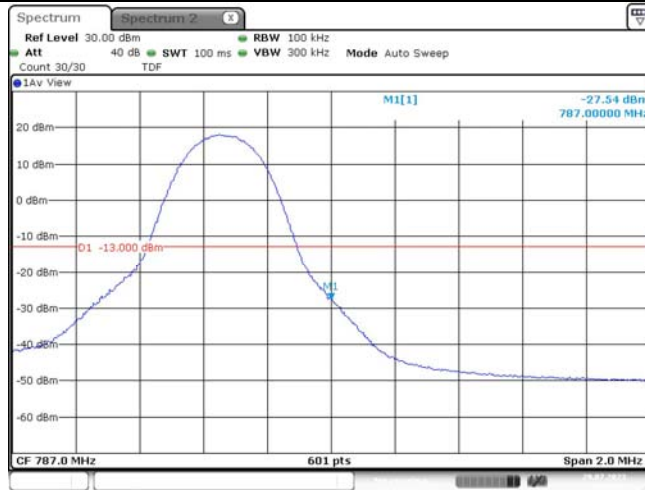
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Band13-5MHz-QPSK-23255-1RB#0



Date: 29.JUL.2023 23:29:01

Band13-5MHz-QPSK-23255-1RB#24



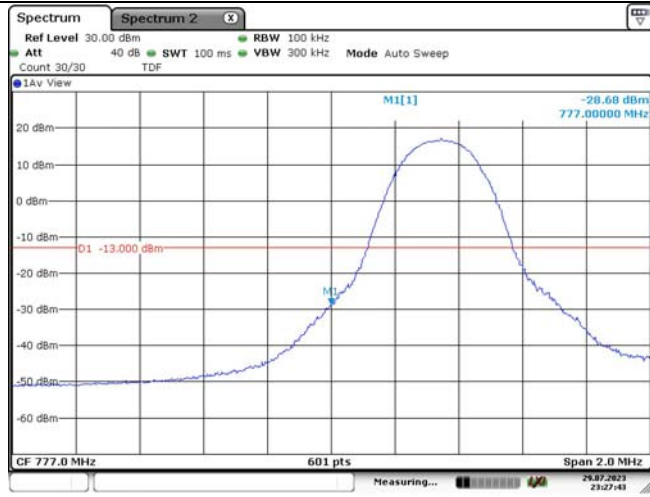
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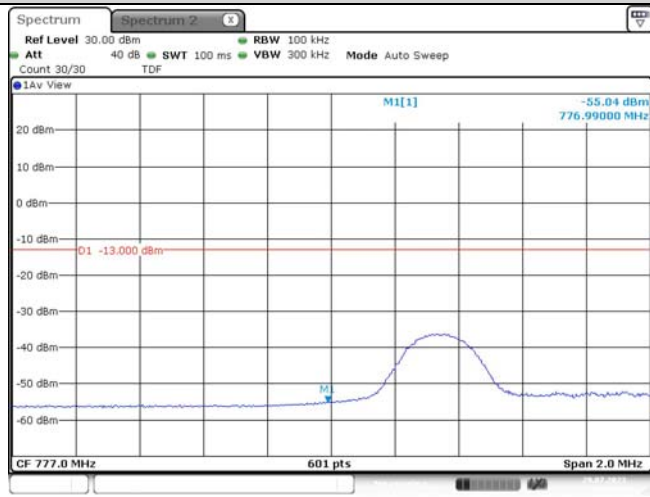


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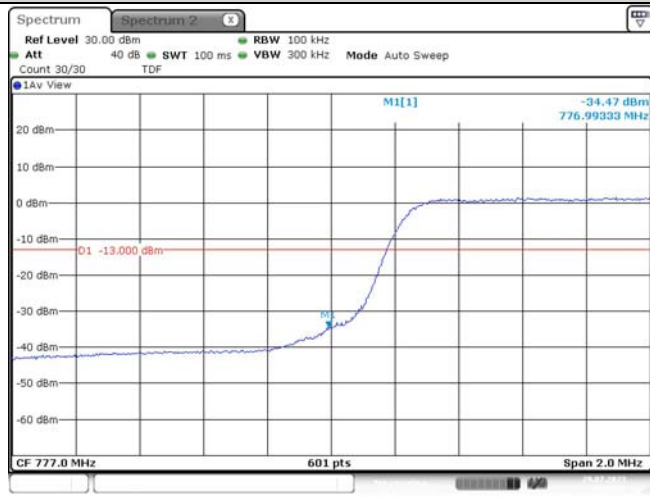
Band13-5MHz-16QAM-23205-1RB#0



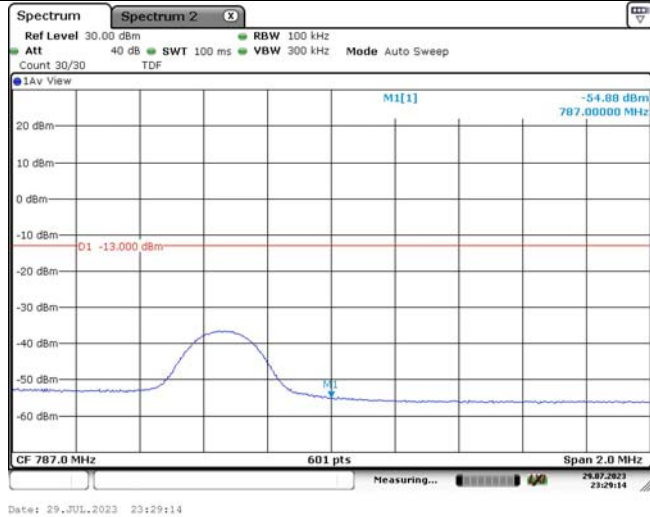
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Band13-5MHz-16QAM-23205-25RB#0



Band13-5MHz-16QAM-23255-1RB#0



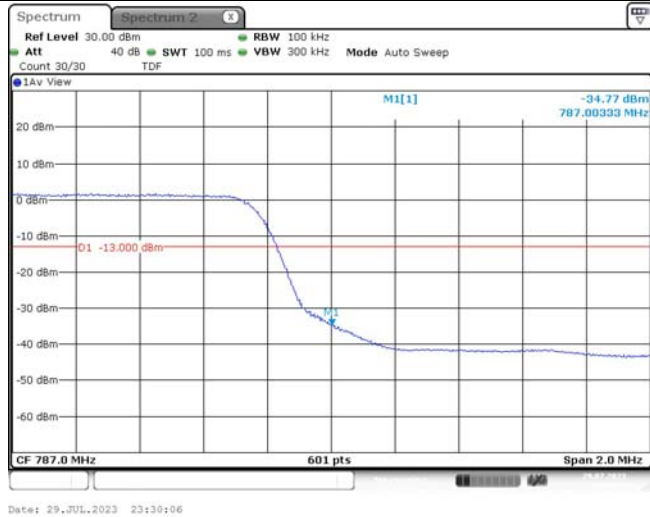
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Band13-5MHz-16QAM-23255-1RB#24



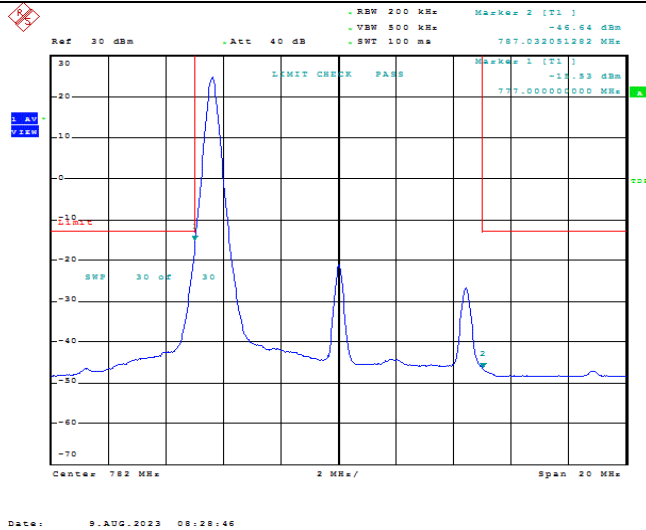
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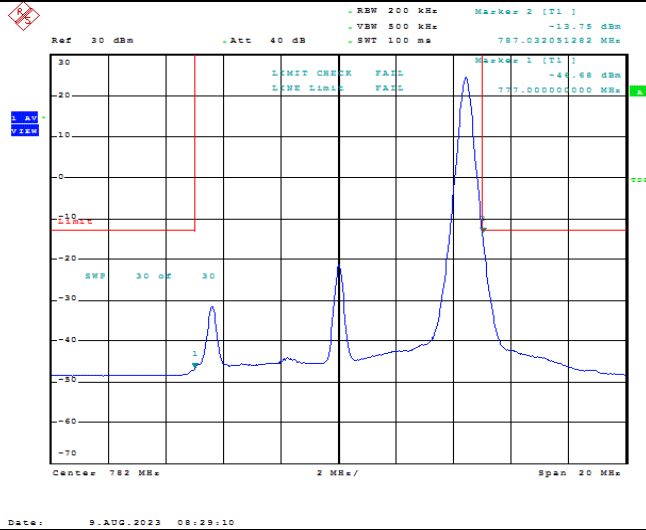


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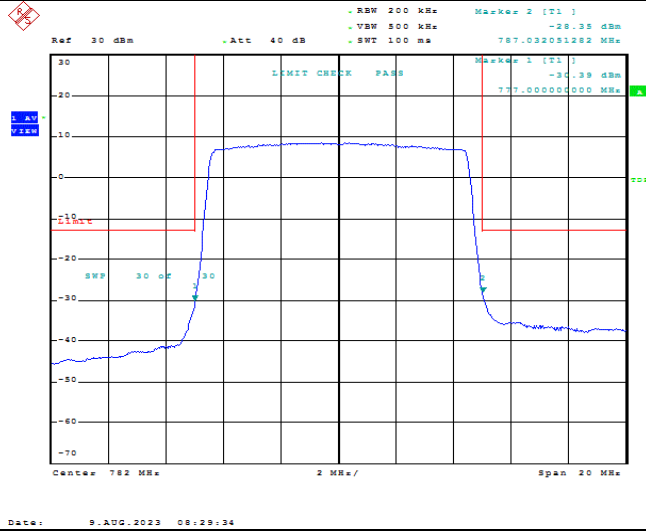
Band13-10MHz-QPSK-23230-1RB#0



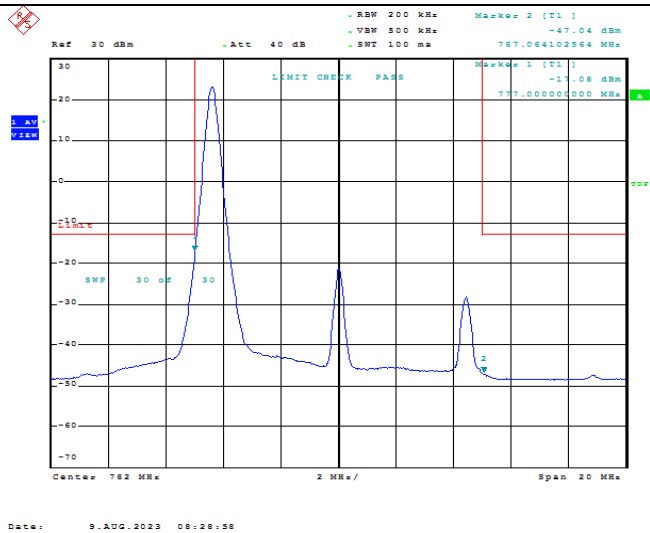
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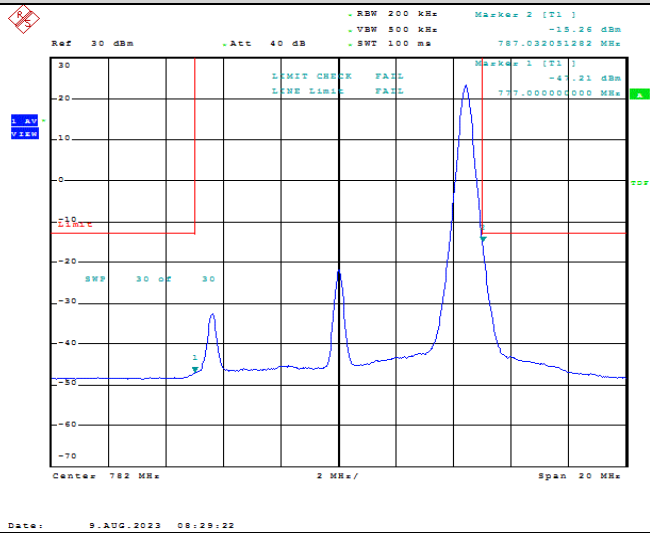
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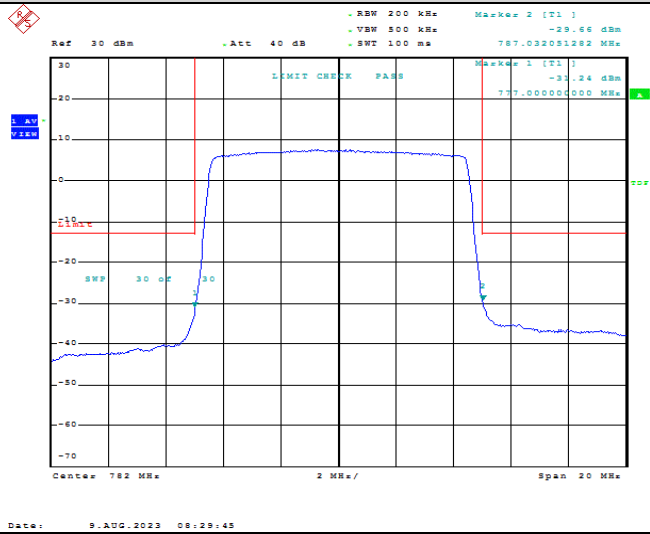
Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-1RB#49



Band13-10MHz-16QAM-23230-50RB#0



1.5. Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-47.07	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:763~775MHz	-56.8	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:793~805MHz	-72.22	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-27.93	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range1:1559~1610MHz	-51.01	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:1559~1610MHz	-54.28	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-47.06	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-65.88	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-47.82	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-28.28	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:1559~1610MHz	-52.75	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-46.93	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:763~775MHz	-64.27	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:793~805MHz	-69.45	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-27.26	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:1559~1610MHz	-53.27	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-47.49	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:763~775MHz	-57.78	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:793~805MHz	-72.9	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-28.01	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:1559~1610MHz	-51.38	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:1559~1610MHz	-56.53	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-47.02	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-67.19	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-47.28	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-28.06	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:1559~1610MHz	-53.07	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-47.01	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:763~775MHz	-65.47	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:793~805MHz	-70.11	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-28.08	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:1559~1610MHz	-52.69	PASS

Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-47.66	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-57.54	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-52.55	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-27.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-54.85	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-47.52	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-57.96	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-52.62	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-27.49	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-55.99	PASS

Test Graphs

1.6. Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-2.06	-0.002643	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-2.73	-0.003502	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-4.41	-0.005657	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-2.59	-0.003312	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	2.19	0.002801	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	-3.43	-0.004386	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-1.42	-0.001810	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	2.53	0.003225	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-1.75	-0.002231	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-2.89	-0.003708	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-2.47	-0.003169	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-3.43	-0.004400	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-3.40	-0.004348	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-2.30	-0.002941	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	1.90	0.002430	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	1.07	0.001364	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	2.25	0.002868	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	2.20	0.002804	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.73	-0.002212	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-2.33	-0.002980	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	1.73	0.002212	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-1.92	-0.002455	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	2.10	0.002685	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	1.53	0.001957	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-3.28	-0.004208	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-4.19	-0.005375	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-3.00	-0.003849	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	-3.82	-0.004901	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	40	-2.73	-0.003502	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	-1.42	-0.001822	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-2.89	-0.003696	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-2.30	-0.002941	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-1.30	-0.001662	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	1.22	0.001560	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	-1.63	-0.002084	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	-2.17	-0.002775	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	1.96	0.002498	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	2.45	0.003123	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-1.62	-0.002065	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	-2.53	-0.003225	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	-2.20	-0.002804	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	1.53	0.001950	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	1.26	0.001616	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-2.29	-0.002938	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-4.32	-0.005542	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	-2.49	-0.003194	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	-3.39	-0.004349	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	-3.58	-0.004593	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-1.32	-0.001688	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-2.03	-0.002596	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-1.49	-0.001905	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	-2.76	-0.003529	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	2.30	0.002941	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	-2.50	-0.003197	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	2.57	0.003276	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-3.08	-0.003926	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	-3.36	-0.004283	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	-1.26	-0.001606	±2.5	PASS

Band13	5MHz	16QAM	23255	25RB#0	NV	40	-2.36	-0.003008	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	-1.73	-0.002205	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-3.30	-0.004220	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-2.95	-0.003772	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-3.53	-0.004514	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.40	-0.003069	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	1.57	0.002008	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-2.93	-0.003747	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-2.50	-0.003197	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-1.65	-0.002110	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-2.55	-0.003261	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-2.72	-0.003478	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	2.25	0.002877	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-3.15	-0.004028	±2.5	PASS

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