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Appendix for LTE Band 19

**Applicant: HONGKONG UCLOUDLINK NETWORK TECHNOLOGY
LIMITED**

**Address: Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung
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Product Name: 4G LTE Wireless Router

Model: GLMR21A02

FCC ID: 2AC88-GLMR21A02

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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
Band19	5MHz	QPSK	24025	1RB#0	25.61	PASS
Band19	5MHz	QPSK	24025	1RB#12	25.00	PASS
Band19	5MHz	QPSK	24025	1RB#24	24.92	PASS
Band19	5MHz	QPSK	24025	12RB#0	24.75	PASS
Band19	5MHz	QPSK	24025	12RB#6	24.80	PASS
Band19	5MHz	QPSK	24025	12RB#13	24.85	PASS
Band19	5MHz	QPSK	24025	25RB#0	24.83	PASS
Band19	5MHz	QPSK	24075	1RB#0	24.78	PASS
Band19	5MHz	QPSK	24075	1RB#12	24.75	PASS
Band19	5MHz	QPSK	24075	1RB#24	24.81	PASS
Band19	5MHz	QPSK	24075	12RB#0	24.76	PASS
Band19	5MHz	QPSK	24075	12RB#6	24.80	PASS
Band19	5MHz	QPSK	24075	12RB#13	24.97	PASS
Band19	5MHz	QPSK	24075	25RB#0	24.84	PASS
Band19	5MHz	QPSK	24125	1RB#0	24.95	PASS
Band19	5MHz	QPSK	24125	1RB#12	24.85	PASS
Band19	5MHz	QPSK	24125	1RB#24	24.65	PASS
Band19	5MHz	QPSK	24125	12RB#0	24.86	PASS
Band19	5MHz	QPSK	24125	12RB#6	24.86	PASS
Band19	5MHz	QPSK	24125	12RB#13	24.80	PASS
Band19	5MHz	QPSK	24125	25RB#0	24.89	PASS
Band19	5MHz	16QAM	24025	1RB#0	24.74	PASS
Band19	5MHz	16QAM	24025	1RB#12	24.62	PASS
Band19	5MHz	16QAM	24025	1RB#24	24.69	PASS
Band19	5MHz	16QAM	24025	12RB#0	24.82	PASS
Band19	5MHz	16QAM	24025	12RB#6	24.79	PASS
Band19	5MHz	16QAM	24025	12RB#13	24.87	PASS
Band19	5MHz	16QAM	24025	25RB#0	23.68	PASS
Band19	5MHz	16QAM	24075	1RB#0	25.00	PASS
Band19	5MHz	16QAM	24075	1RB#12	24.84	PASS
Band19	5MHz	16QAM	24075	1RB#24	24.99	PASS
Band19	5MHz	16QAM	24075	12RB#0	24.79	PASS
Band19	5MHz	16QAM	24075	12RB#6	24.81	PASS

Band19	5MHz	16QAM	24075	12RB#13	24.84	PASS
Band19	5MHz	16QAM	24075	25RB#0	23.74	PASS
Band19	5MHz	16QAM	24125	1RB#0	24.89	PASS
Band19	5MHz	16QAM	24125	1RB#12	24.71	PASS
Band19	5MHz	16QAM	24125	1RB#24	24.75	PASS
Band19	5MHz	16QAM	24125	12RB#0	24.86	PASS
Band19	5MHz	16QAM	24125	12RB#6	24.87	PASS
Band19	5MHz	16QAM	24125	12RB#13	24.80	PASS
Band19	5MHz	16QAM	24125	25RB#0	23.70	PASS
Band19	10MHz	QPSK	24050	1RB#0	24.60	PASS
Band19	10MHz	QPSK	24050	1RB#24	24.01	PASS
Band19	10MHz	QPSK	24050	1RB#49	24.66	PASS
Band19	10MHz	QPSK	24050	25RB#0	24.84	PASS
Band19	10MHz	QPSK	24050	25RB#12	24.79	PASS
Band19	10MHz	QPSK	24050	25RB#25	24.02	PASS
Band19	10MHz	QPSK	24050	50RB#0	24.91	PASS
Band19	10MHz	QPSK	24075	1RB#0	24.92	PASS
Band19	10MHz	QPSK	24075	1RB#24	24.12	PASS
Band19	10MHz	QPSK	24075	1RB#49	24.89	PASS
Band19	10MHz	QPSK	24075	25RB#0	24.93	PASS
Band19	10MHz	QPSK	24075	25RB#12	24.90	PASS
Band19	10MHz	QPSK	24075	25RB#25	24.90	PASS
Band19	10MHz	QPSK	24075	50RB#0	24.87	PASS
Band19	10MHz	QPSK	24100	1RB#0	24.69	PASS
Band19	10MHz	QPSK	24100	1RB#24	24.75	PASS
Band19	10MHz	QPSK	24100	1RB#49	24.62	PASS
Band19	10MHz	QPSK	24100	25RB#0	24.92	PASS
Band19	10MHz	QPSK	24100	25RB#12	24.88	PASS
Band19	10MHz	QPSK	24100	25RB#25	24.84	PASS
Band19	10MHz	QPSK	24100	50RB#0	24.91	PASS
Band19	10MHz	16QAM	24050	1RB#0	24.61	PASS
Band19	10MHz	16QAM	24050	1RB#24	24.90	PASS
Band19	10MHz	16QAM	24050	1RB#49	24.64	PASS
Band19	10MHz	16QAM	24050	25RB#0	24.81	PASS
Band19	10MHz	16QAM	24050	25RB#12	24.78	PASS
Band19	10MHz	16QAM	24050	25RB#25	24.87	PASS
Band19	10MHz	16QAM	24050	50RB#0	23.87	PASS
Band19	10MHz	16QAM	24075	1RB#0	24.64	PASS

Band19	10MHz	16QAM	24075	1RB#24	25.42	PASS
Band19	10MHz	16QAM	24075	1RB#49	25.60	PASS
Band19	10MHz	16QAM	24075	25RB#0	24.89	PASS
Band19	10MHz	16QAM	24075	25RB#12	24.91	PASS
Band19	10MHz	16QAM	24075	25RB#25	24.89	PASS
Band19	10MHz	16QAM	24075	50RB#0	23.98	PASS
Band19	10MHz	16QAM	24100	1RB#0	24.70	PASS
Band19	10MHz	16QAM	24100	1RB#24	24.83	PASS
Band19	10MHz	16QAM	24100	1RB#49	24.96	PASS
Band19	10MHz	16QAM	24100	25RB#0	24.95	PASS
Band19	10MHz	16QAM	24100	25RB#12	24.89	PASS
Band19	10MHz	16QAM	24100	25RB#25	24.79	PASS
Band19	10MHz	16QAM	24100	50RB#0	23.78	PASS
Band19	15MHz	QPSK	24075	1RB#0	25.54	PASS
Band19	15MHz	QPSK	24075	1RB#38	24.82	PASS
Band19	15MHz	QPSK	24075	1RB#74	24.59	PASS
Band19	15MHz	QPSK	24075	38RB#0	24.91	PASS
Band19	15MHz	QPSK	24075	38RB#18	24.91	PASS
Band19	15MHz	QPSK	24075	38RB#37	24.55	PASS
Band19	15MHz	QPSK	24075	75RB#0	24.87	PASS
Band19	15MHz	16QAM	24075	1RB#0	24.29	PASS
Band19	15MHz	16QAM	24075	1RB#38	24.89	PASS
Band19	15MHz	16QAM	24075	1RB#74	24.84	PASS
Band19	15MHz	16QAM	24075	38RB#0	24.88	PASS
Band19	15MHz	16QAM	24075	38RB#18	24.86	PASS
Band19	15MHz	16QAM	24075	38RB#37	24.58	PASS
Band19	15MHz	16QAM	24075	75RB#0	23.87	PASS

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band19	5MHz	QPSK	24025	1RB#0	4.99	13	PASS
Band19	5MHz	QPSK	24025	25RB#0	5.48	13	PASS
Band19	5MHzS	QPSK	24075	1RB#0	4.67	13	PASS
Band19	5MHz	QPSK	24075	25RB#0	5.10	13	PASS
Band19	5MHz	QPSK	24125	1RB#0	4.43	13	PASS
Band19	5MHz	QPSK	24125	25RB#0	5.30	13	PASS
Band19	5MHz	16QAM	24025	1RB#0	6.03	13	PASS
Band19	5MHz	16QAM	24025	25RB#0	6.35	13	PASS
Band19	5MHz	16QAM	24075	1RB#0	5.48	13	PASS
Band19	5MHz	16QAM	24075	25RB#0	6.00	13	PASS
Band19	5MHz	16QAM	24125	1RB#0	8.46	13	PASS
Band19	5MHz	16QAM	24125	25RB#0	6.20	13	PASS
Band19	10MHz	QPSK	24050	1RB#0	4.87	13	PASS
Band19	10MHz	QPSK	24050	50RB#0	4.87	13	PASS
Band19	10MHz	QPSK	24075	1RB#0	4.87	13	PASS
Band19	10MHz	QPSK	24075	50RB#0	4.87	13	PASS
Band19	10MHz	QPSK	24100	1RB#0	4.87	13	PASS
Band19	10MHz	QPSK	24100	50RB#0	4.87	13	PASS
Band19	10MHz	16QAM	24050	1RB#0	4.87	13	PASS
Band19	10MHz	16QAM	24050	50RB#0	4.87	13	PASS
Band19	10MHz	16QAM	24075	1RB#0	4.87	13	PASS
Band19	10MHz	16QAM	24075	50RB#0	4.87	13	PASS
Band19	10MHz	16QAM	24100	1RB#0	4.87	13	PASS
Band19	10MHz	16QAM	24100	50RB#0	4.87	13	PASS
Band19	15MHz	QPSK	24075	1RB#0	4.93	13	PASS
Band19	15MHz	QPSK	24075	75RB#0	5.28	13	PASS
Band19	15MHz	16QAM	24075	1RB#0	5.97	13	PASS
Band19	15MHz	16QAM	24075	75RB#0	6.12	13	PASS

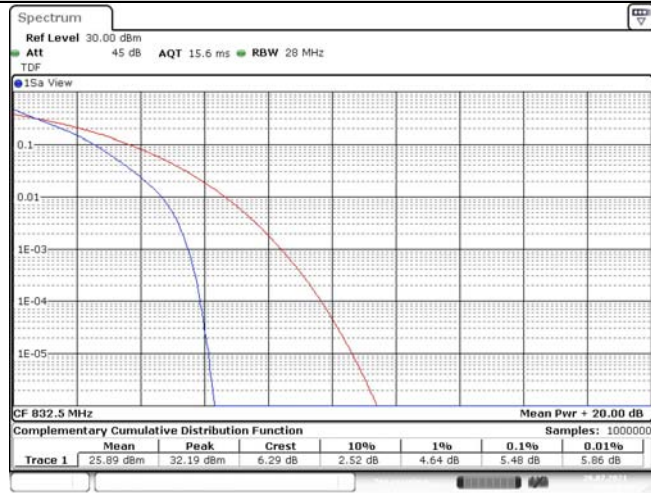
Test Graphs

Band19-5MHz-QPSK-24025-1RB#0



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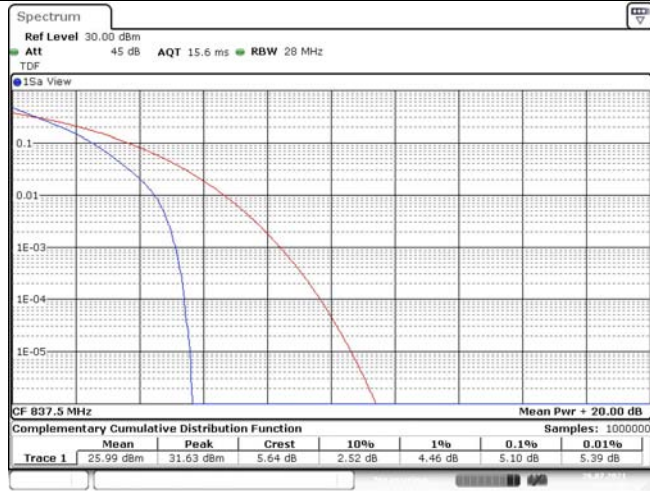
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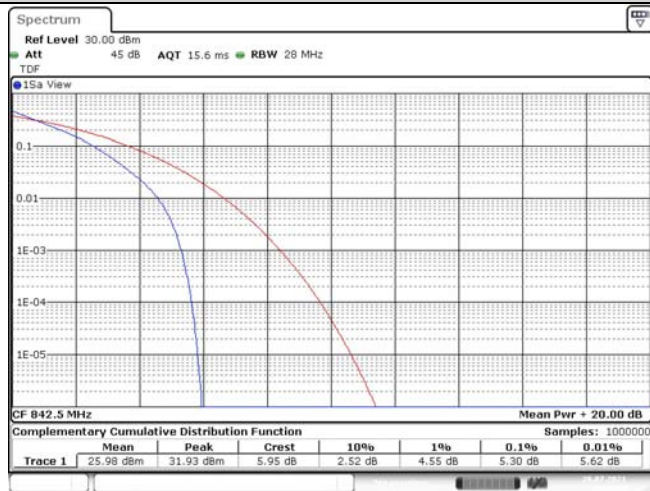
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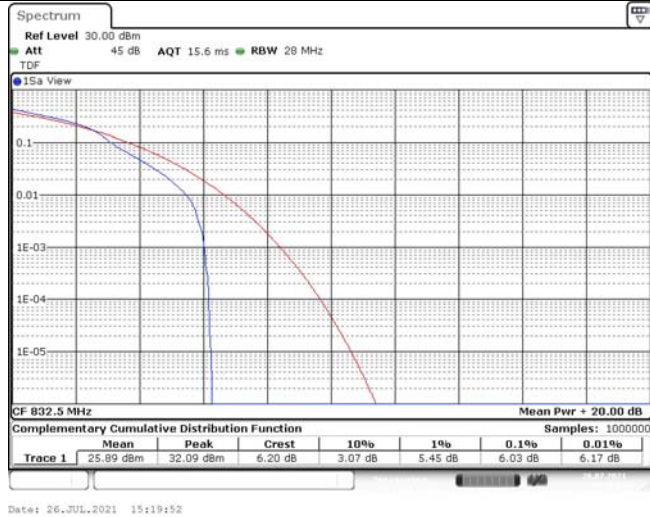
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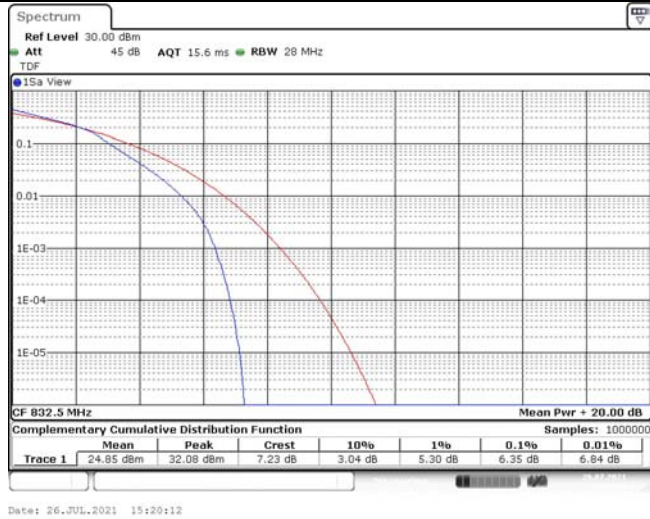


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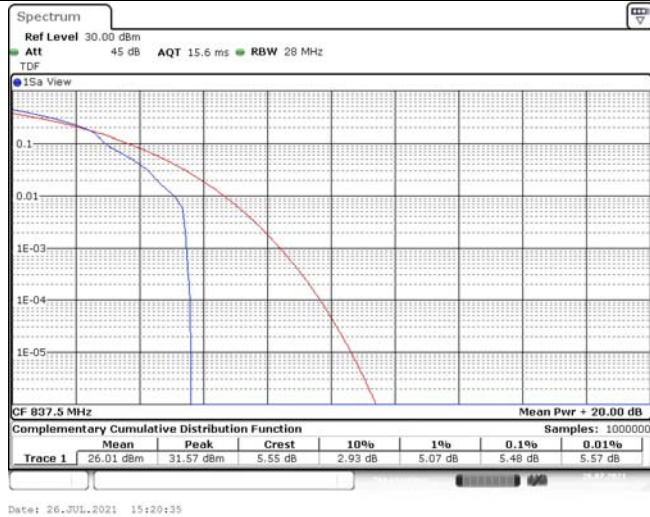
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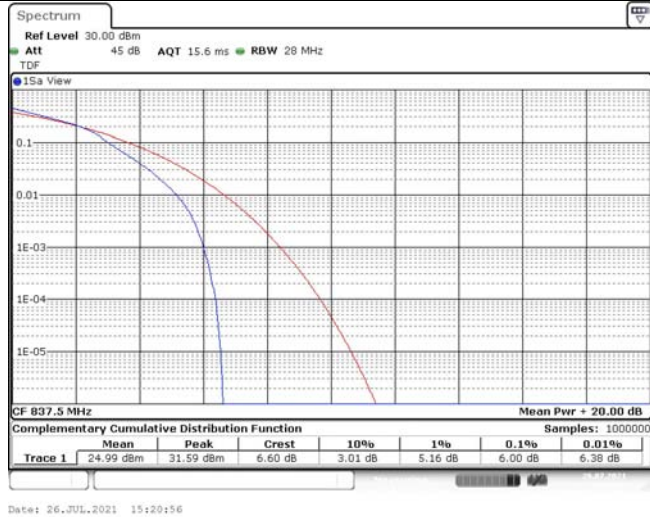
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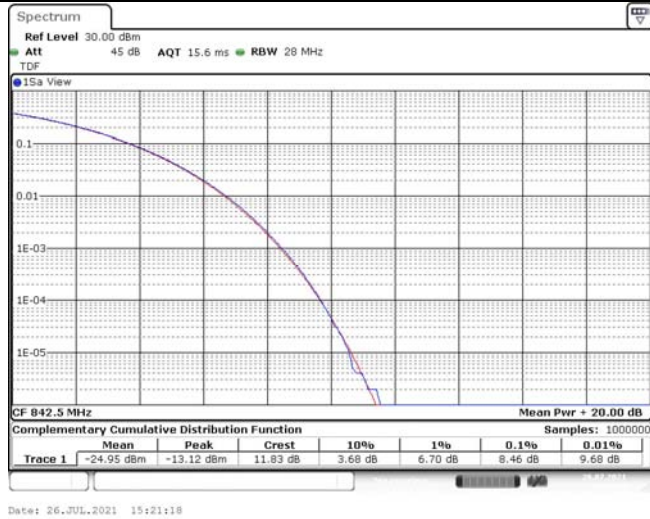
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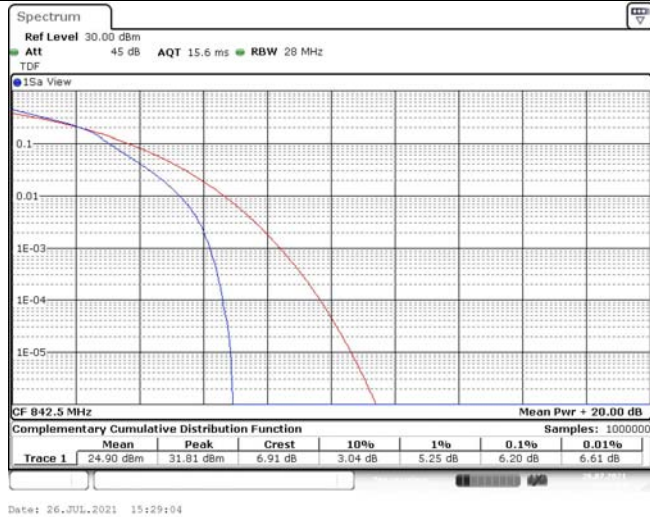
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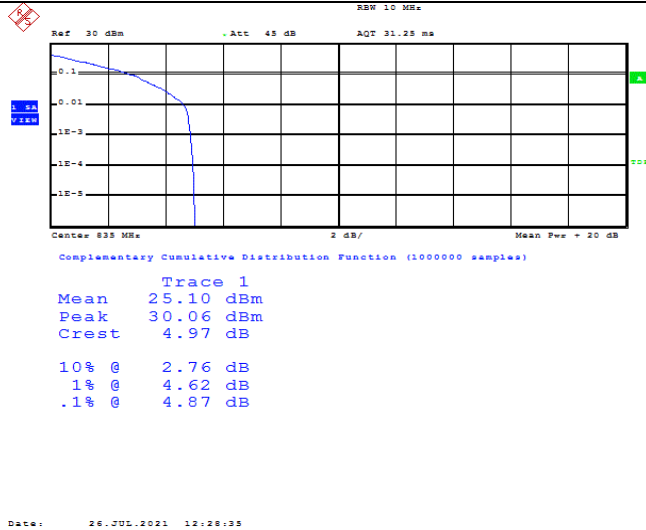
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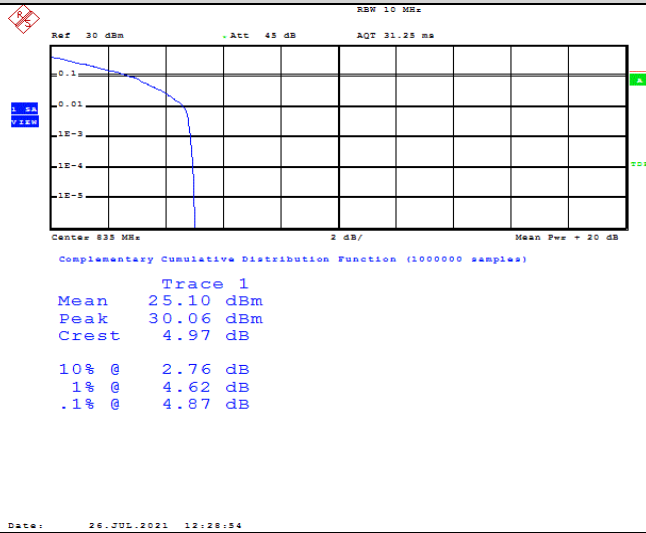
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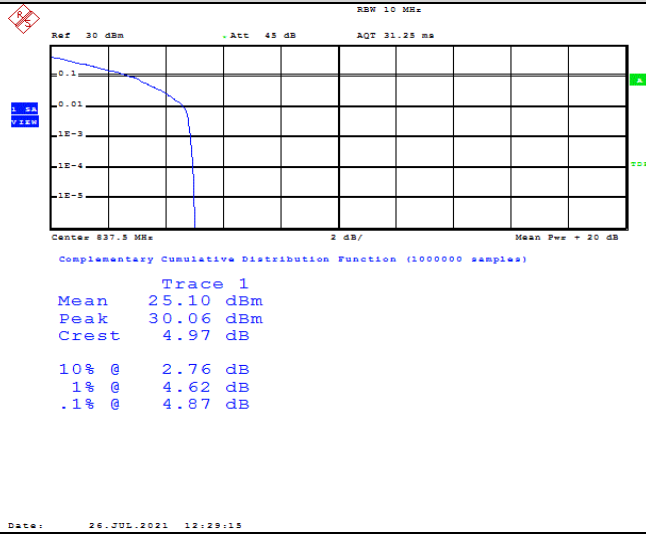
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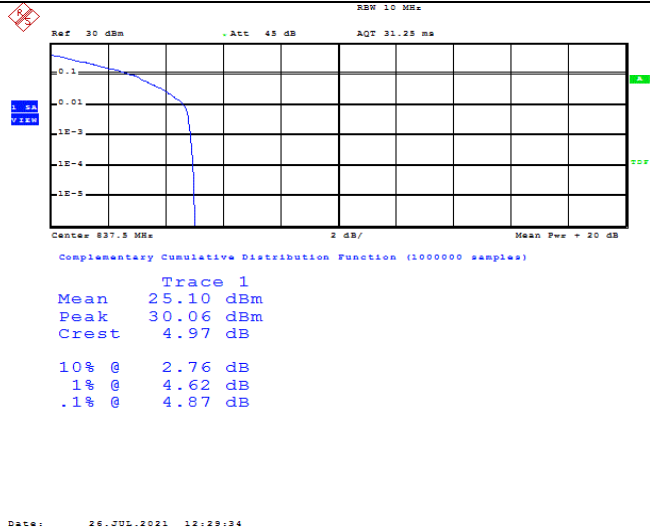
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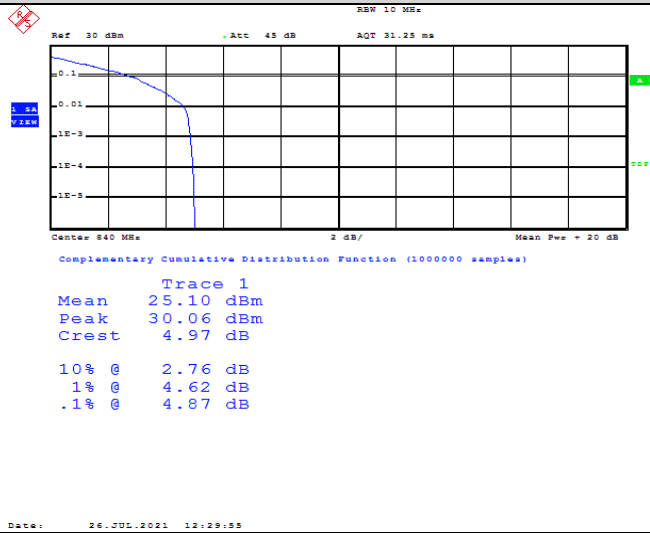
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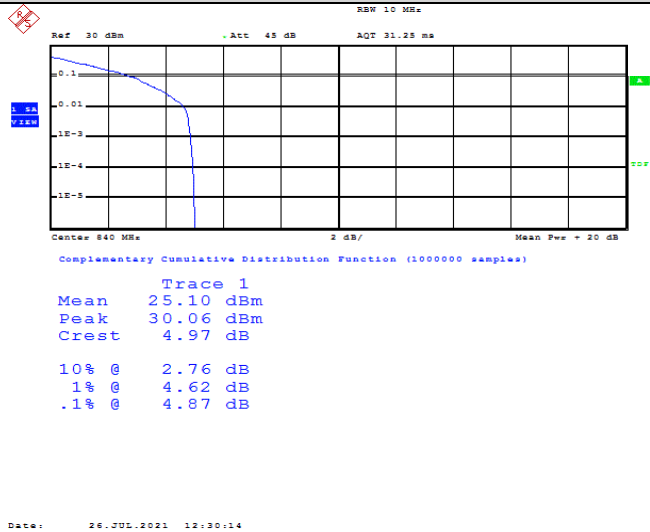
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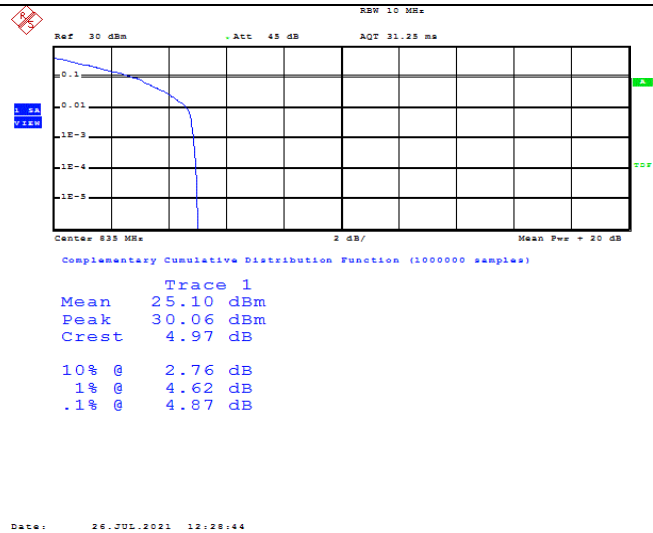
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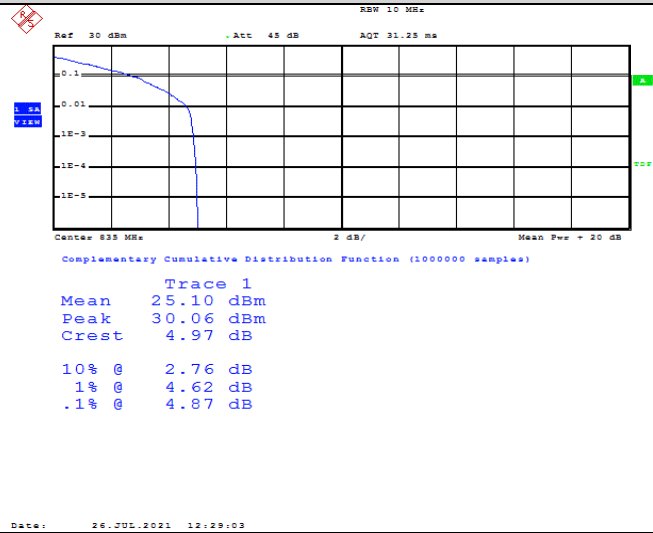
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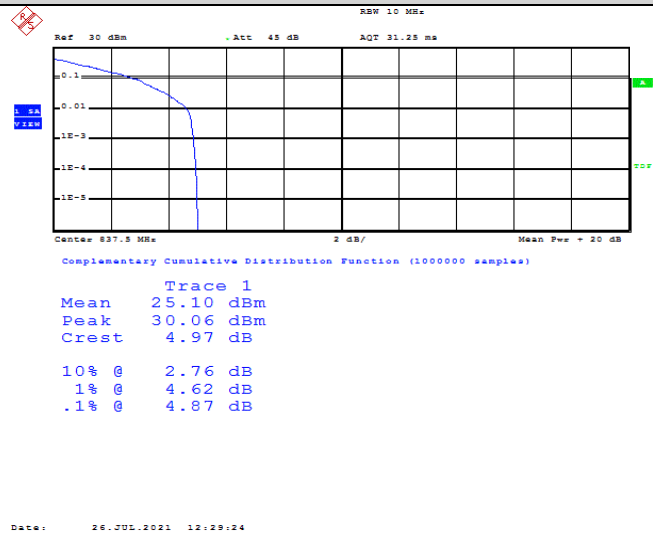
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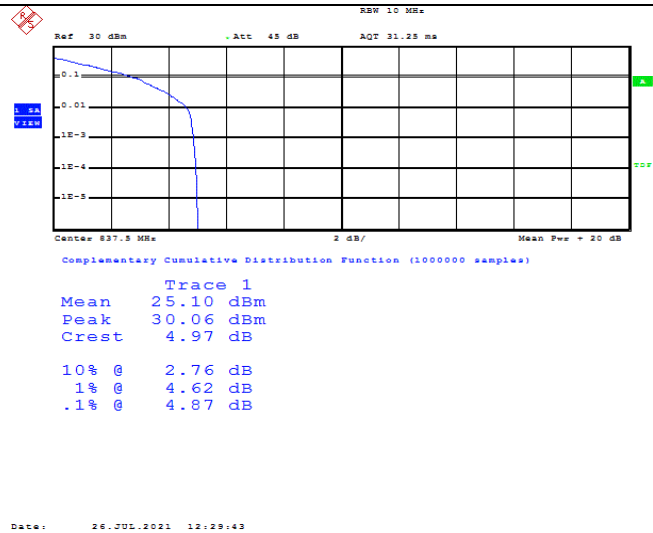
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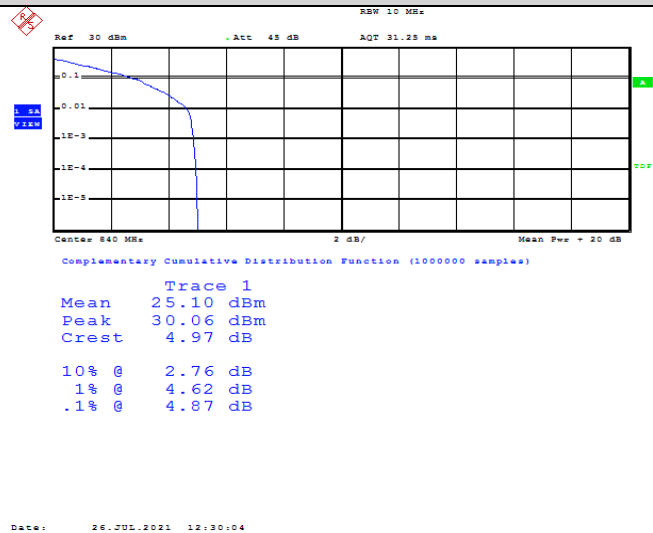
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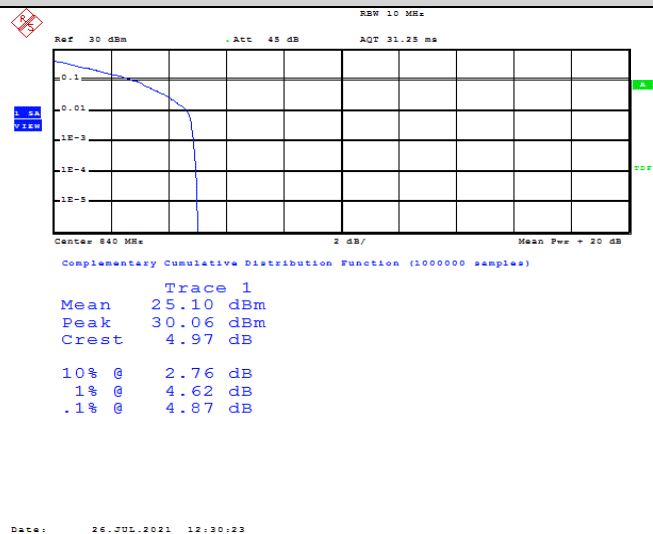
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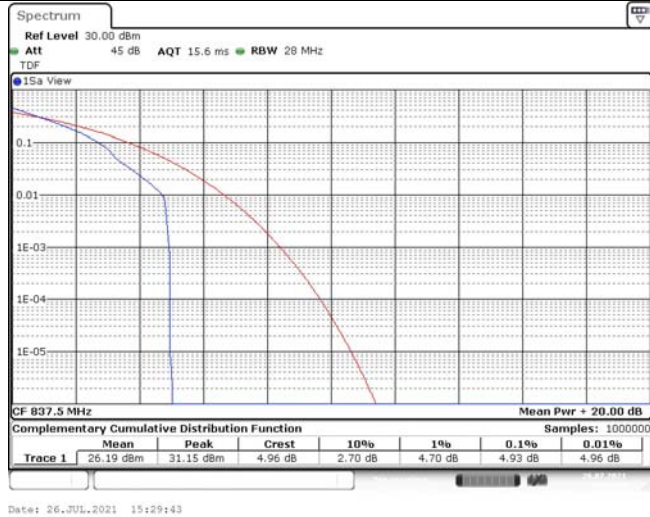
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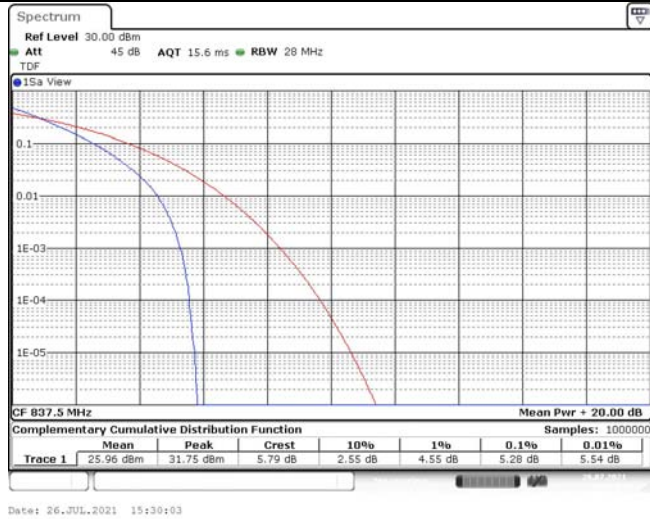
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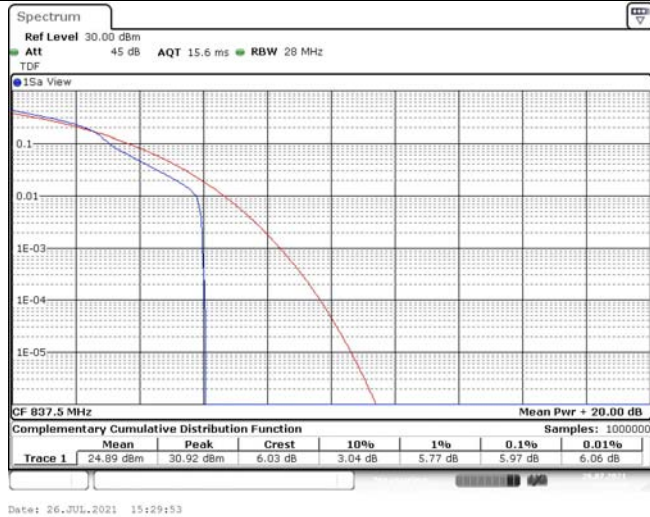
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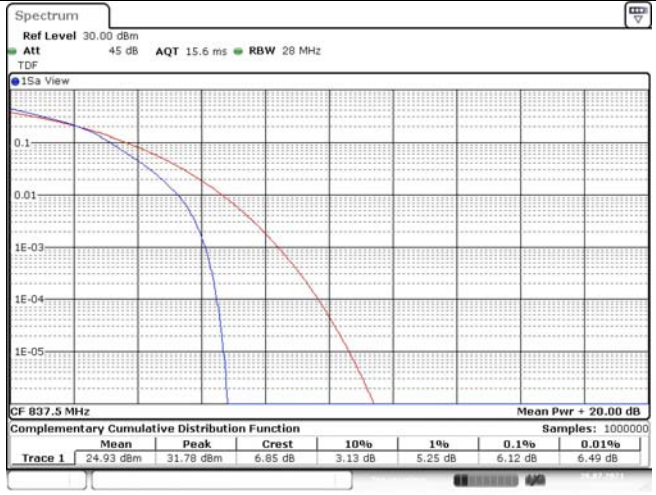
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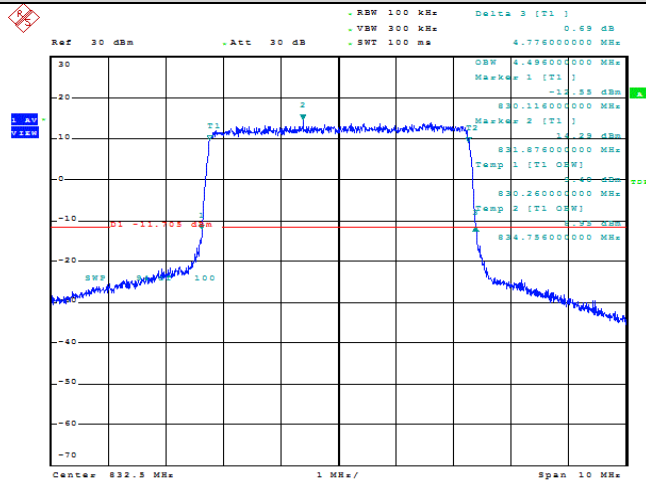
1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band19	5MHz	QPSK	24025	25RB#0	4.496	4.776	PASS
Band19	5MHz	QPSK	24075	25RB#0	4.504	4.768	PASS
Band19	5MHz	QPSK	24125	25RB#0	4.512	4.784	PASS
Band19	5MHz	16QAM	24025	25RB#0	4.504	4.784	PASS
Band19	5MHz	16QAM	24075	25RB#0	4.504	4.776	PASS
Band19	5MHz	16QAM	24125	25RB#0	4.512	4.784	PASS
Band19	10MHz	QPSK	24050	50RB#0	9.006	9.840	PASS
Band19	10MHz	QPSK	24075	50RB#0	8.942	9.615	PASS
Band19	10MHz	QPSK	24100	50RB#0	9.006	9.679	PASS
Band19	10MHz	16QAM	24050	50RB#0	8.974	9.647	PASS
Band19	10MHz	16QAM	24075	50RB#0	8.974	9.615	PASS
Band19	10MHz	16QAM	24100	50RB#0	8.974	9.647	PASS
Band19	15MHz	QPSK	24075	75RB#0	13.51	14.519	PASS
Band19	15MHz	16QAM	24075	75RB#0	13.413	14.423	PASS

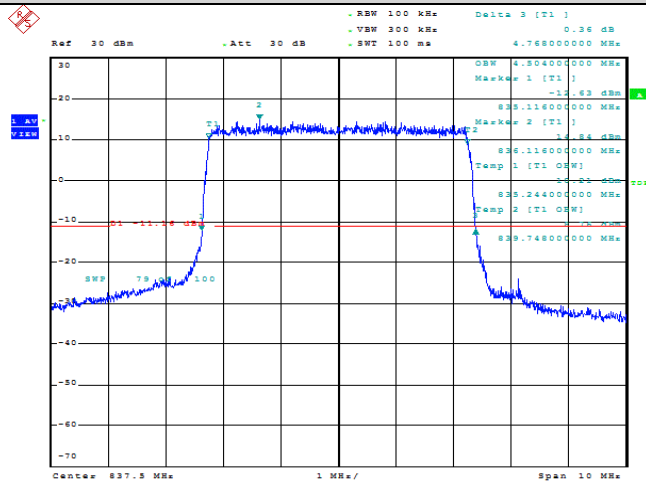
Test Graphs

Band19-5MHz-QPSK-24025-25RB#0-4.496



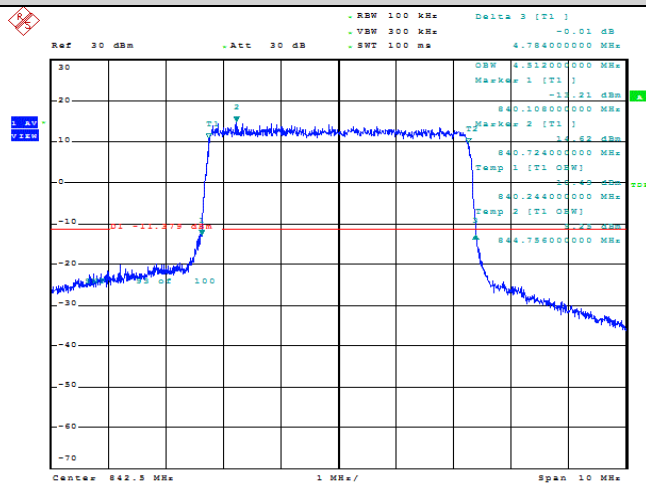
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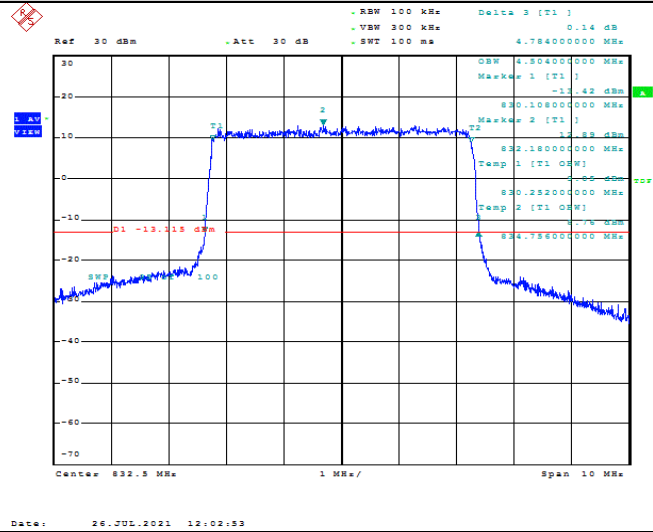
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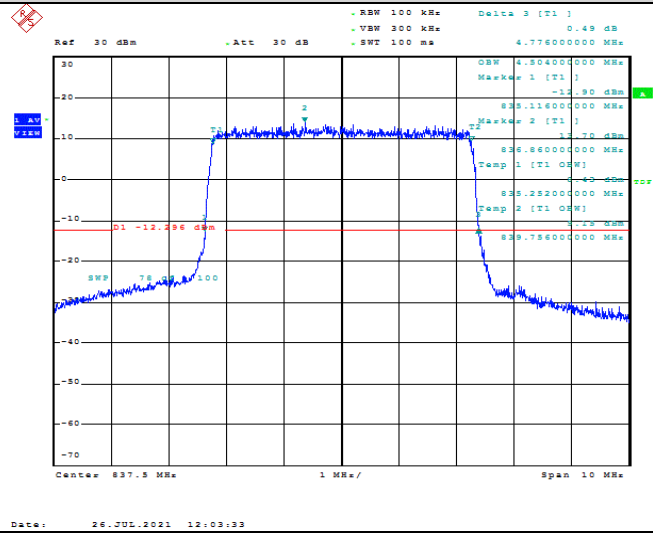


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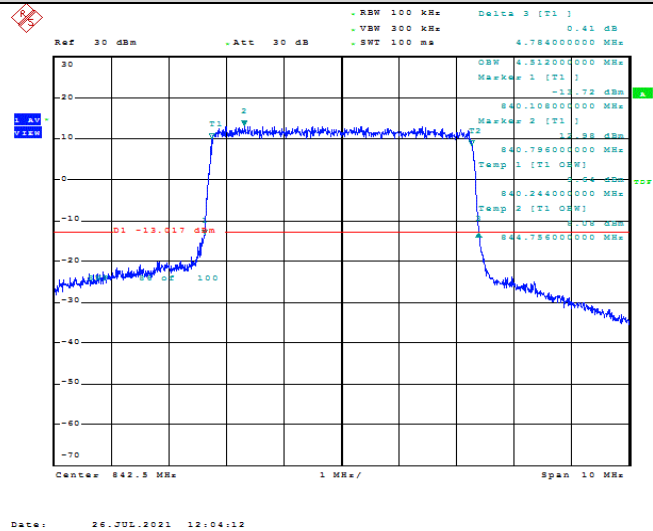
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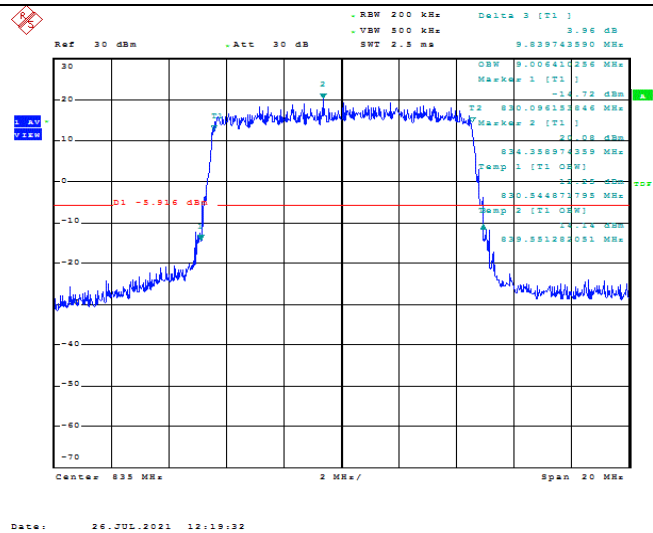
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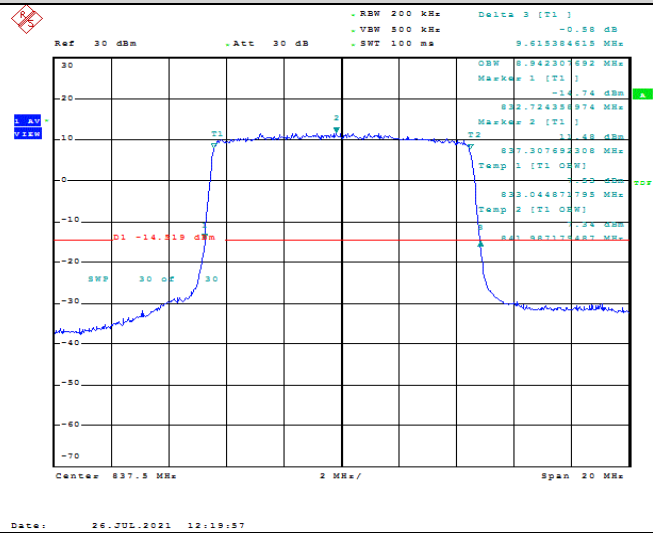
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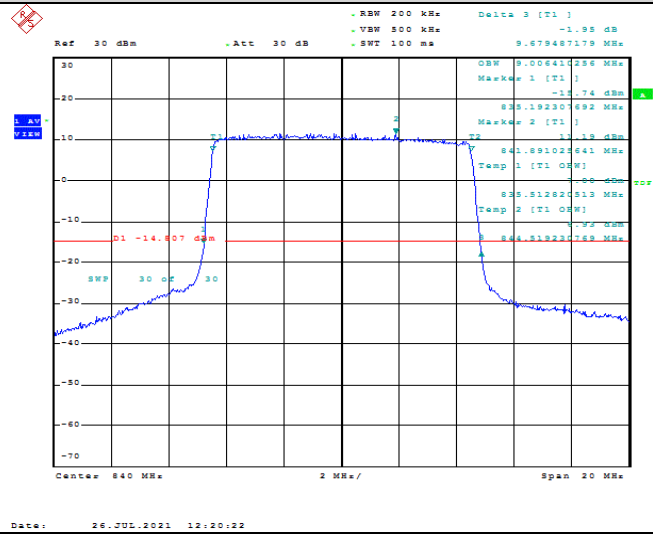
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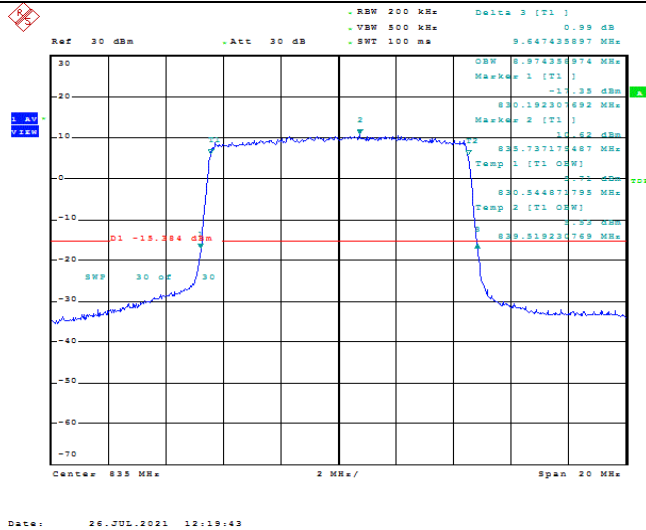
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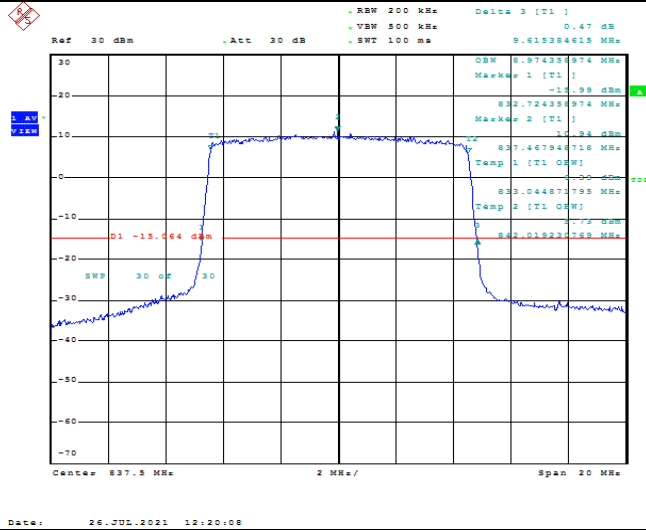
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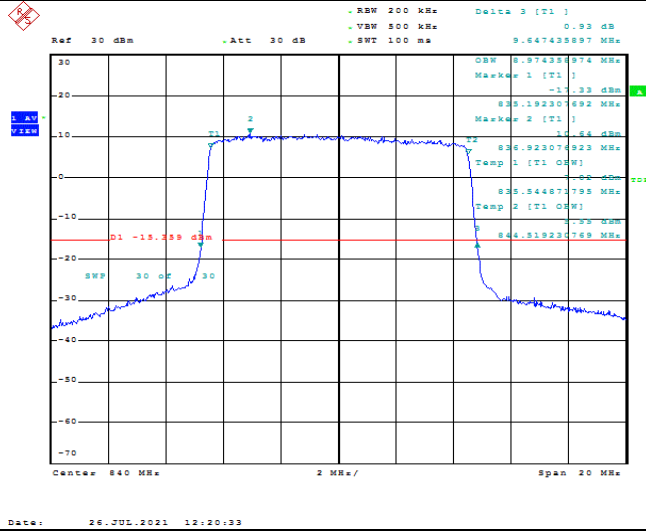
Band19-10MHz-16QAM-24050-50RB#0-8.974



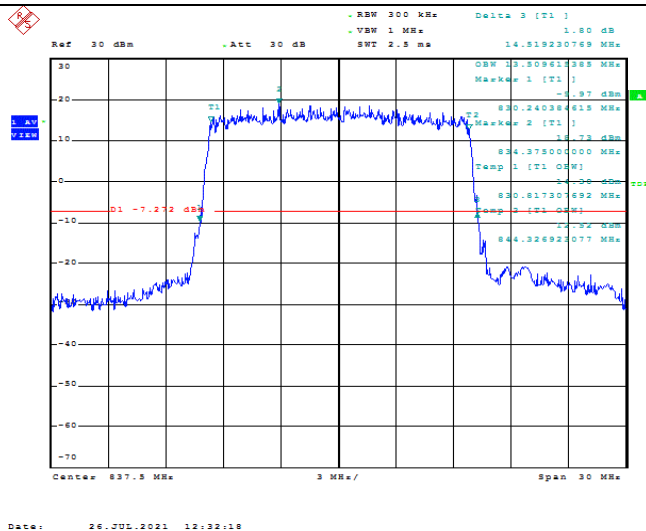
Band19-10MHz-16QAM-24075-50RB#0-8.974



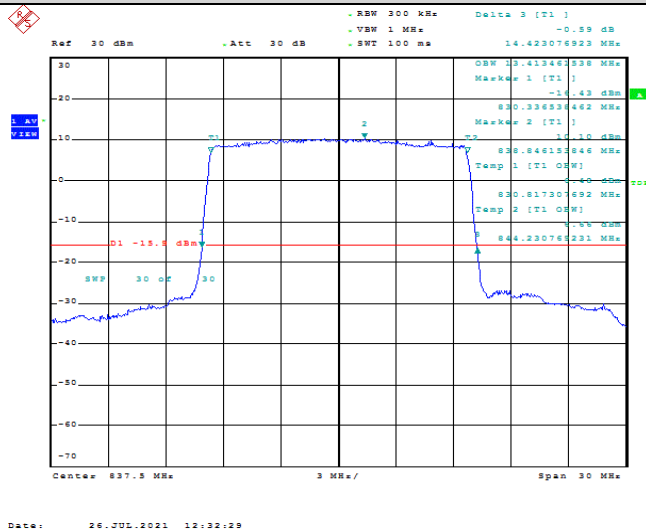
Band19-10MHz-16QAM-24100-50RB#0-8.974



Band19-15MHz-QPSK-24075-75RB#0-13.51



Band19-15MHz-16QAM-24075-75RB#0-13.413



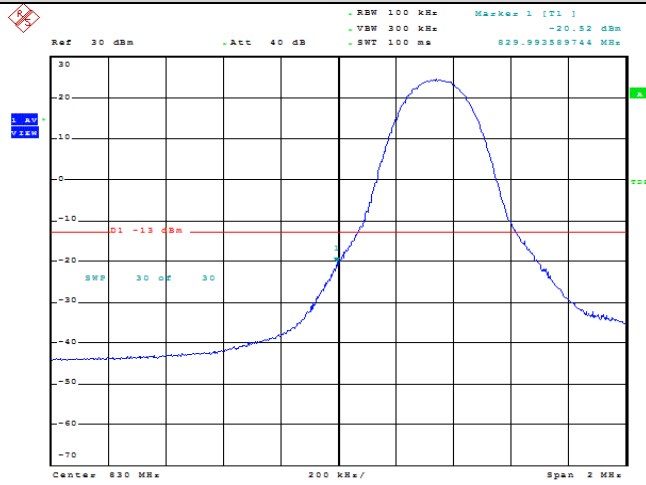
1.4. Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band19	5MHz	QPSK	24025	1RB#0	-20.52	PASS
Band19	5MHz	QPSK	24025	1RB#24	-47.50	PASS
Band19	5MHz	QPSK	24025	25RB#0	-23.45	PASS
Band19	5MHz	QPSK	24125	1RB#0	-46.94	PASS
Band19	5MHz	QPSK	24125	1RB#24	-19.06	PASS
Band19	5MHz	QPSK	24125	25RB#0	-24.93	PASS
Band19	5MHz	16QAM	24025	1RB#0	-20.78	PASS
Band19	5MHz	16QAM	24025	1RB#24	-47.67	PASS
Band19	5MHz	16QAM	24025	25RB#0	-23.70	PASS
Band19	5MHz	16QAM	24125	1RB#0	-47.21	PASS
Band19	5MHz	16QAM	24125	1RB#24	-21.08	PASS
Band19	5MHz	16QAM	24125	25RB#0	-25.25	PASS
Band19	10MHz	QPSK	24050	1RB#0	-31.88	PASS
Band19	10MHz	QPSK	24050	1RB#49	-49.43	PASS
Band19	10MHz	QPSK	24050	50RB#0	-28.75	PASS
Band19	10MHz	QPSK	24100	1RB#0	-49.85	PASS
Band19	10MHz	QPSK	24100	1RB#49	-31.50	PASS
Band19	10MHz	QPSK	24100	50RB#0	-29.59	PASS
Band19	10MHz	16QAM	24050	1RB#0	-31.93	PASS
Band19	10MHz	16QAM	24050	1RB#49	-50.11	PASS
Band19	10MHz	16QAM	24050	50RB#0	-29.55	PASS
Band19	10MHz	16QAM	24100	1RB#0	-49.94	PASS
Band19	10MHz	16QAM	24100	1RB#49	-32.05	PASS
Band19	10MHz	16QAM	24100	50RB#0	-30.31	PASS

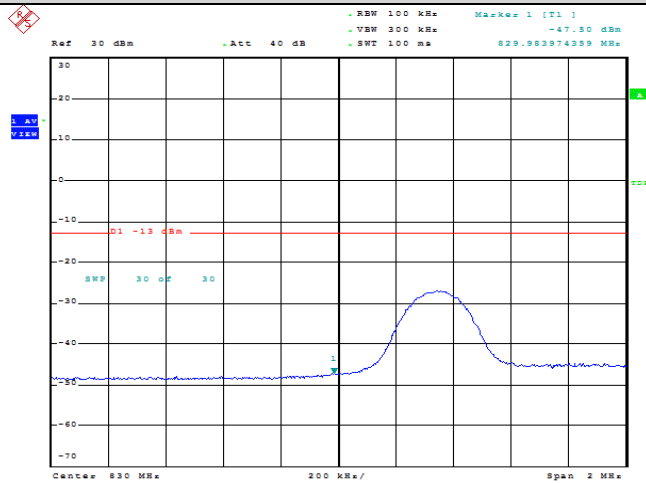
Test Graphs

Band19-5MHz-QPSK-24025-1RB#0



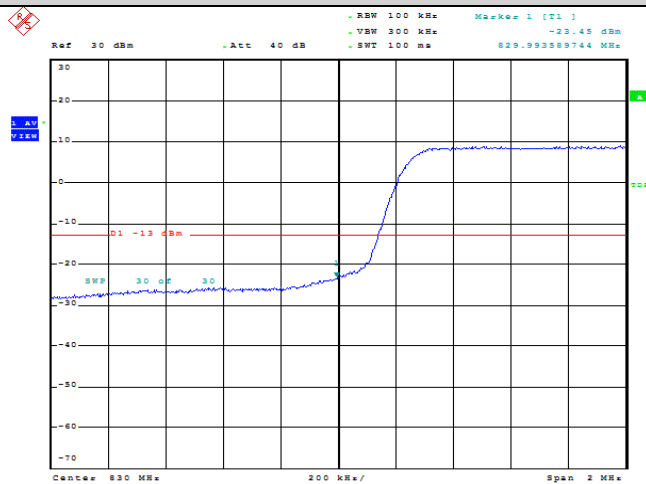
Date: 26.JUL.2021 14:39:25

Band19-5MHz-QPSK-24025-1RB#24



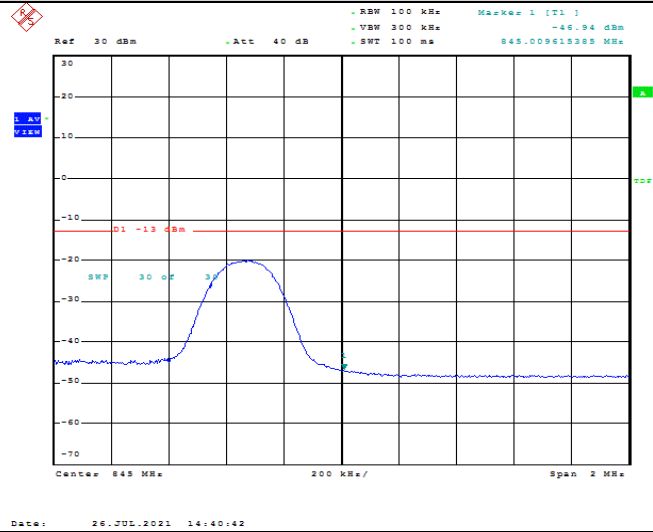
Date: 26.JUL.2021 14:39:46

Band19-5MHz-QPSK-24025-25RB#0

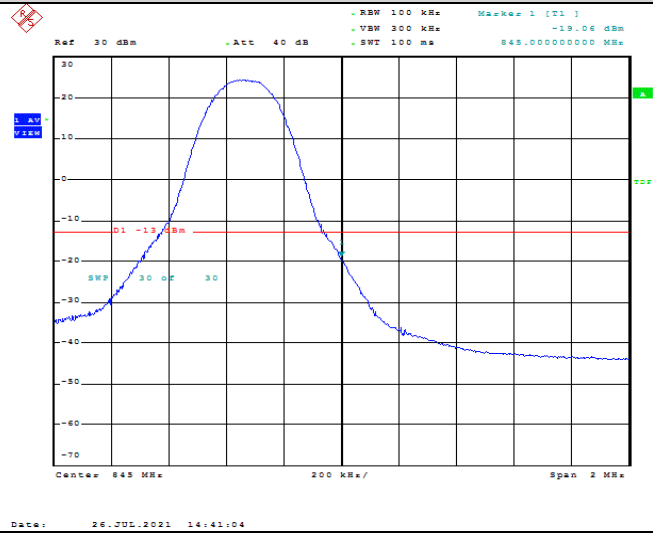


Date: 26.JUL.2021 14:40:07

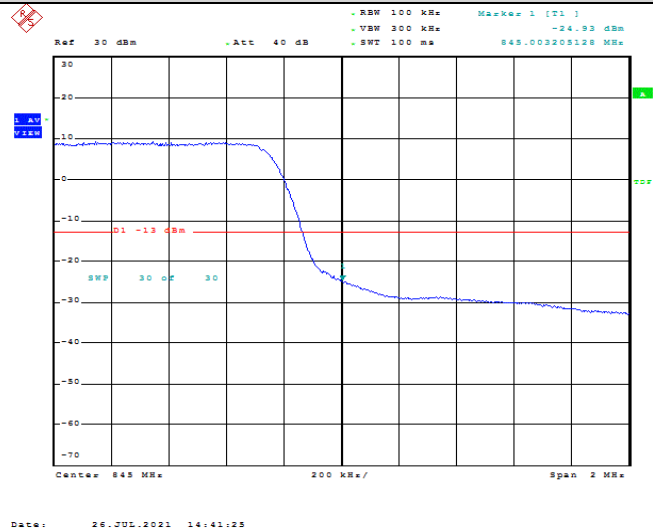
Band19-5MHz-QPSK-24125-1RB#0



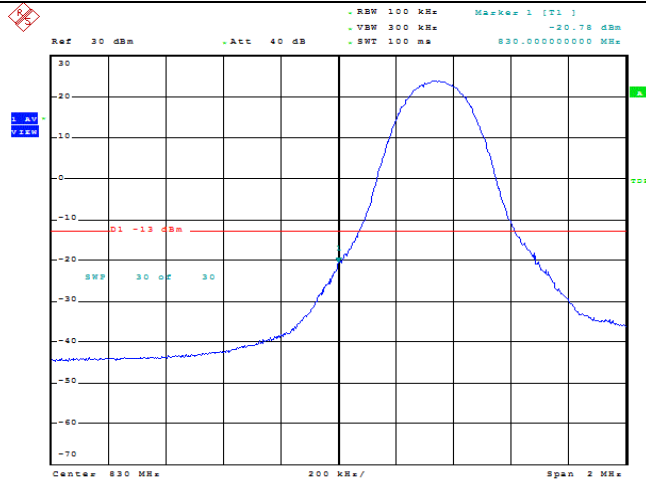
Band19-5MHz-QPSK-24125-1RB#24



Band19-5MHz-QPSK-24125-25RB#0

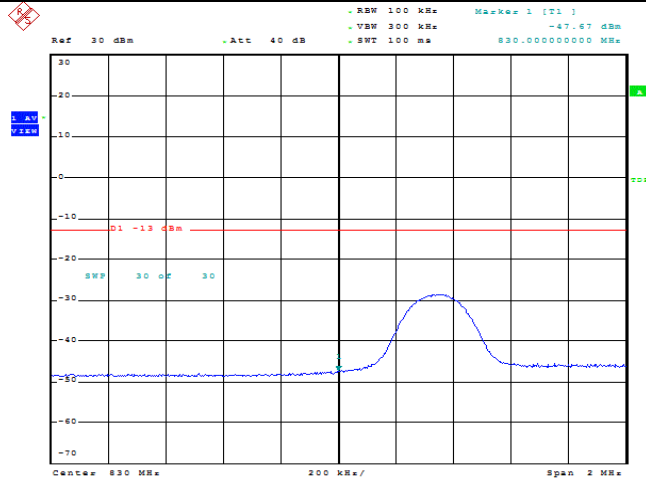


Band19-5MHz-16QAM-24025-1RB#0



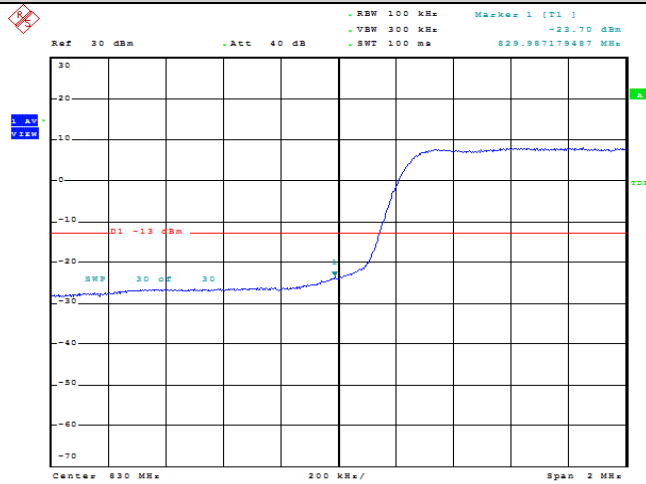
Date: 26.JUL.2021 14:39:35

Band19-5MHz-16QAM-24025-1RB#24



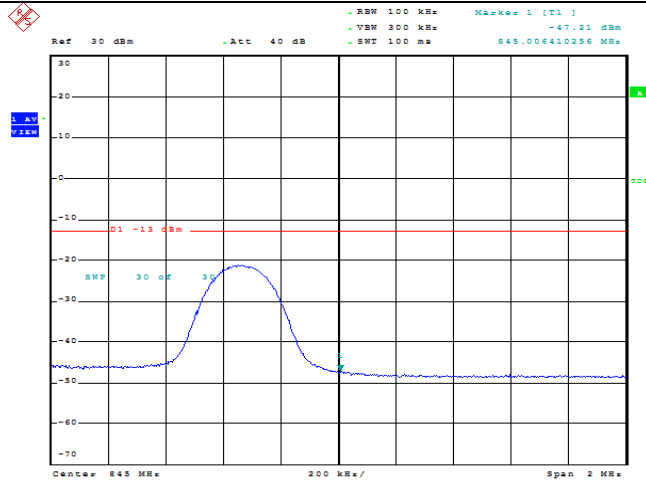
Date: 26.JUL.2021 14:39:56

Band19-5MHz-16QAM-24025-25RB#0



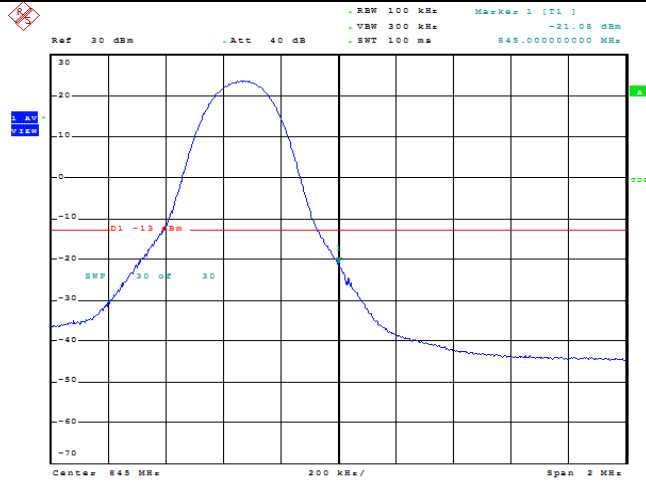
Date: 26.JUL.2021 14:40:18

Band19-5MHz-16QAM-24125-1RB#0



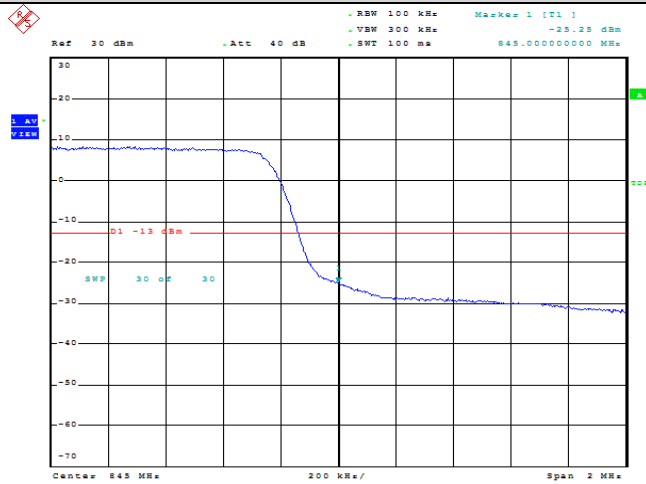
Date: 26.JUL.2021 14:40:53

Band19-5MHz-16QAM-24125-1RB#24



Date: 26.JUL.2021 14:41:14

Band19-5MHz-16QAM-24125-25RB#0



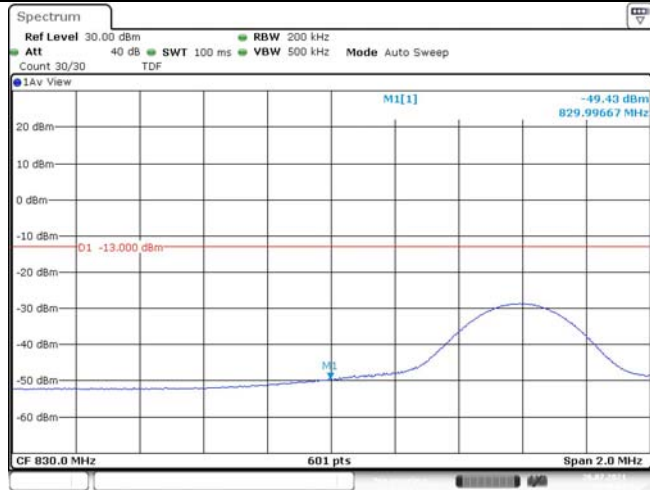
Date: 26.JUL.2021 14:41:36

Band19-10MHz-QPSK-24050-1RB#0



Date: 26.JUL.2021 18:44:02

Band19-10MHz-QPSK-24050-1RB#49



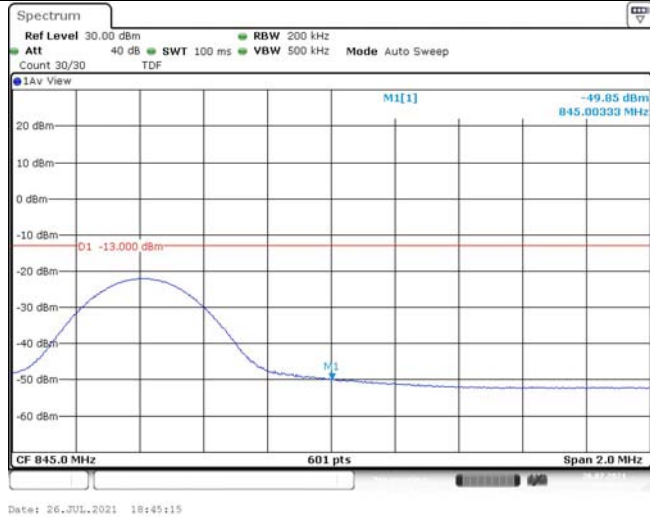
Date: 26.JUL.2021 18:44:23

Band19-10MHz-QPSK-24050-50RB#0



Date: 26.JUL.2021 18:44:45

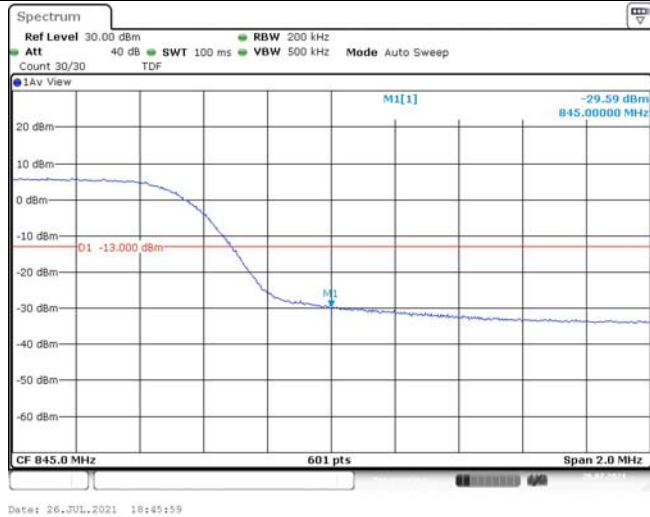
Band19-10MHz-QPSK-24100-1RB#0



Band19-10MHz-QPSK-24100-1RB#49



Band19-10MHz-QPSK-24100-50RB#0

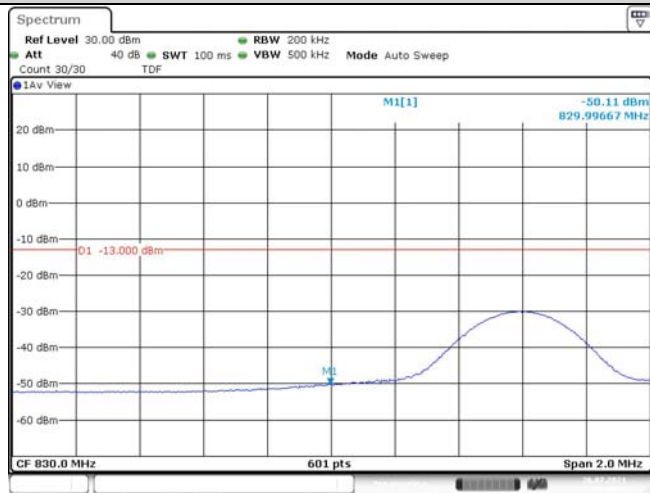


Band19-10MHz-16QAM-24050-1RB#0



Date: 26.JUL.2021 18:44:13

Band19-10MHz-16QAM-24050-1RB#49



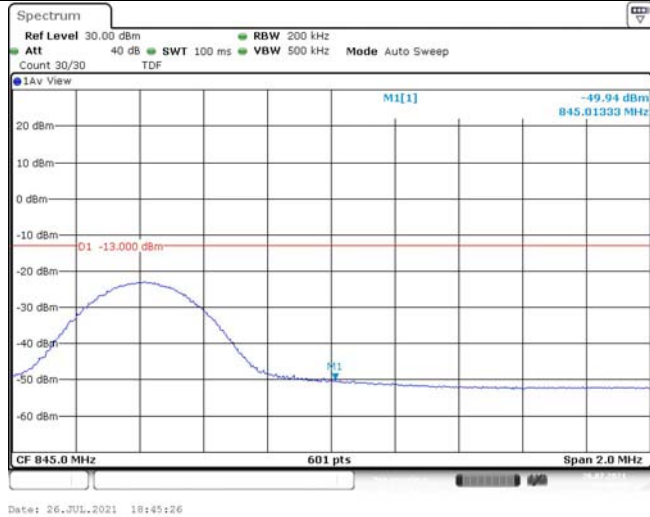
Date: 26.JUL.2021 18:44:34

Band19-10MHz-16QAM-24050-50RB#0



Date: 26.JUL.2021 18:44:56

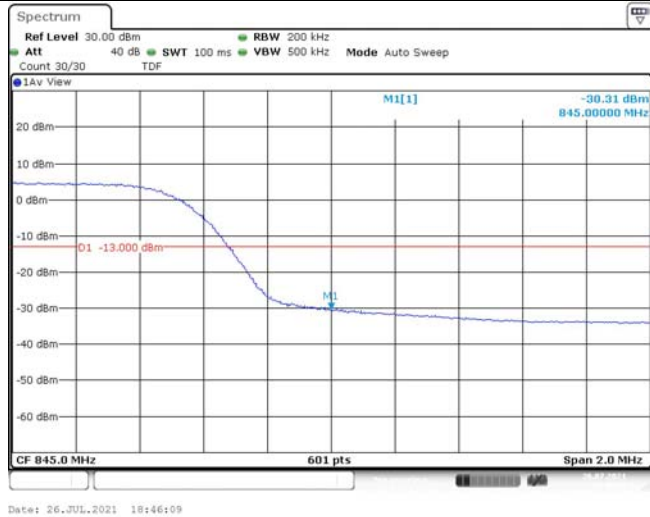
Band19-10MHz-16QAM-24100-1RB#0



Band19-10MHz-16QAM-24100-1RB#49



Band19-10MHz-16QAM-24100-50RB#0



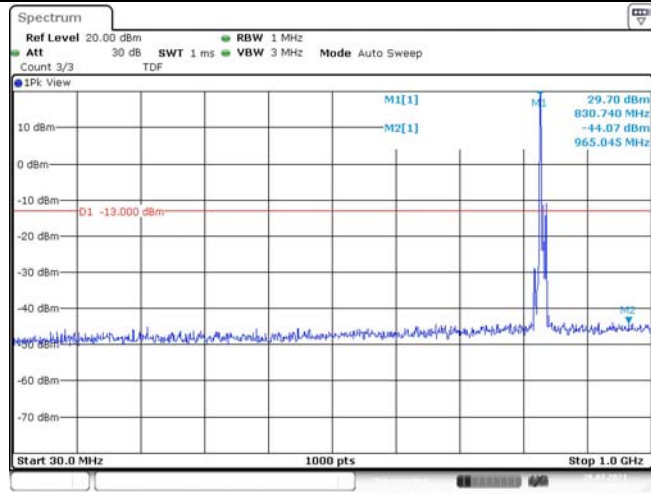
1.5. Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band19	5MHz	QPSK	24025	1RB#0	Range1:30~1000MHz	-44.07	PASS
Band19	5MHz	QPSK	24025	1RB#0	Range1:1000~10000MHz	-29.5	PASS
Band19	5MHz	QPSK	24075	1RB#0	Range1:30~1000MHz	-42.5	PASS
Band19	5MHz	QPSK	24075	1RB#0	Range1:1000~10000MHz	-28.82	PASS
Band19	5MHz	QPSK	24125	1RB#0	Range1:30~1000MHz	-44.07	PASS
Band19	5MHz	QPSK	24125	1RB#0	Range1:1000~10000MHz	-29.21	PASS
Band19	5MHz	16QAM	24025	1RB#0	Range1:30~1000MHz	-42.94	PASS
Band19	5MHz	16QAM	24025	1RB#0	Range1:1000~10000MHz	-31.51	PASS
Band19	5MHz	16QAM	24075	1RB#0	Range1:30~1000MHz	-42.94	PASS
Band19	5MHz	16QAM	24075	1RB#0	Range1:1000~10000MHz	-29.4	PASS
Band19	5MHz	16QAM	24125	1RB#0	Range1:30~1000MHz	-43.42	PASS
Band19	5MHz	16QAM	24125	1RB#0	Range1:1000~10000MHz	-25.37	PASS
Band19	10MHz	QPSK	24050	1RB#0	Range1:30~1000MHz	-43.98	PASS
Band19	10MHz	QPSK	24050	1RB#0	Range1:1000~10000MHz	-26.75	PASS
Band19	10MHz	QPSK	24075	1RB#0	Range1:30~1000MHz	-43.91	PASS
Band19	10MHz	QPSK	24075	1RB#0	Range1:1000~10000MHz	-27.81	PASS
Band19	10MHz	QPSK	24100	1RB#0	Range1:30~1000MHz	-43.32	PASS
Band19	10MHz	QPSK	24100	1RB#0	Range1:1000~10000MHz	-28.45	PASS
Band19	10MHz	16QAM	24050	1RB#0	Range1:30~1000MHz	-43.72	PASS
Band19	10MHz	16QAM	24050	1RB#0	Range1:1000~10000MHz	-31.15	PASS
Band19	10MHz	16QAM	24075	1RB#0	Range1:30~1000MHz	-43.15	PASS
Band19	10MHz	16QAM	24075	1RB#0	Range1:1000~10000MHz	-27.73	PASS
Band19	10MHz	16QAM	24100	1RB#0	Range1:30~1000MHz	-43.37	PASS
Band19	10MHz	16QAM	24100	1RB#0	Range1:1000~10000MHz	-28.8	PASS
Band19	15MHz	QPSK	24075	1RB#0	Range1:30~1000MHz	-43.1	PASS
Band19	15MHz	QPSK	24075	1RB#0	Range1:1000~10000MHz	-29.7	PASS
Band19	15MHz	16QAM	24075	1RB#0	Range1:30~1000MHz	-43.91	PASS
Band19	15MHz	16QAM	24075	1RB#0	Range1:1000~10000MHz	-27.91	PASS

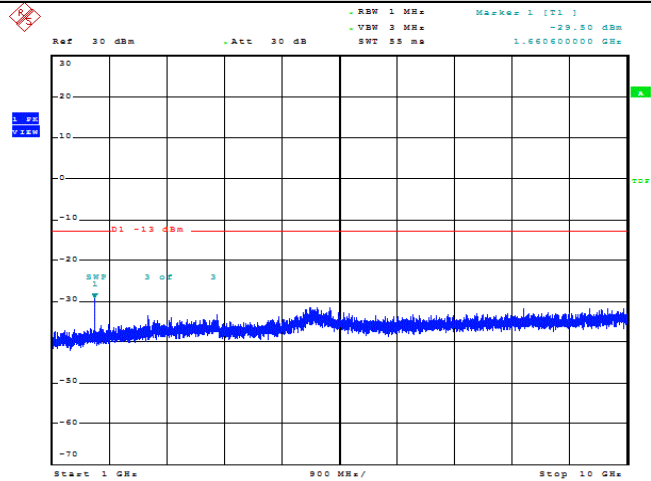
Test Graphs

Band19-5MHz-QPSK-24025-1RB#0-Range1:30~1000MHz



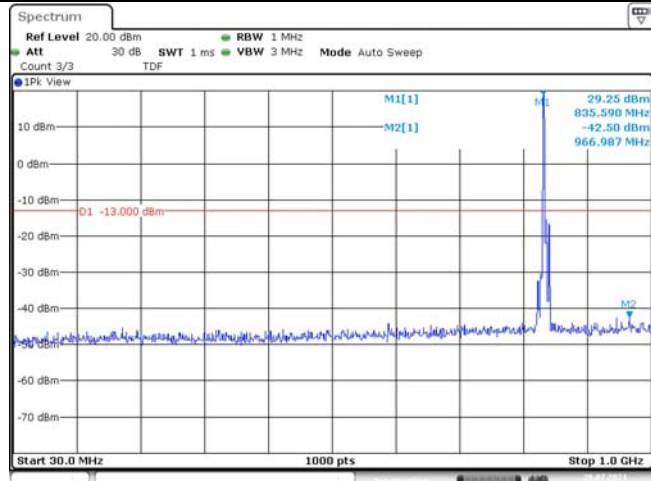
Date: 26.JUL.2021 18:49:14

Band19-5MHz-QPSK-24025-1RB#0-Range1:1000~10000MHz



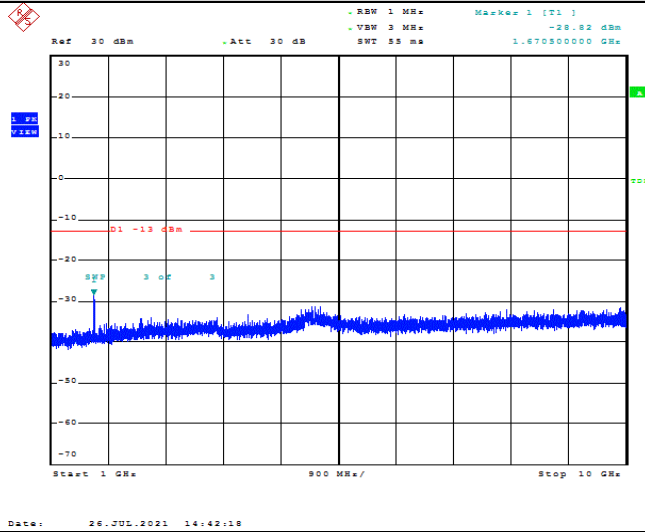
Date: 26.JUL.2021 14:41:50

Band19-5MHz-QPSK-24075-1RB#0-Range1:30~1000MHz

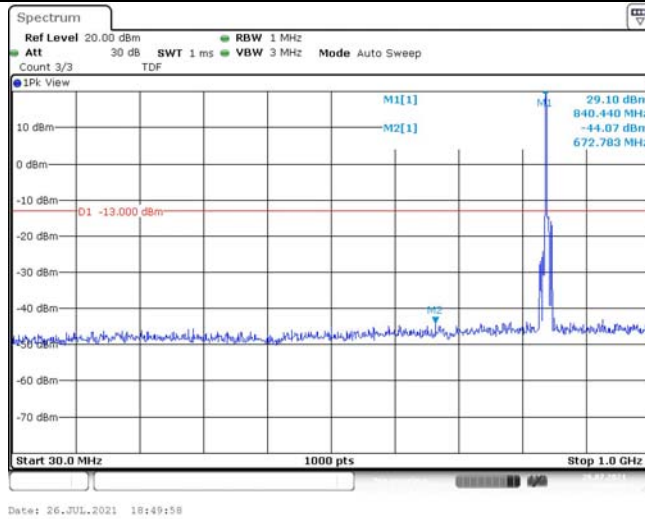


Date: 26.JUL.2021 18:49:36

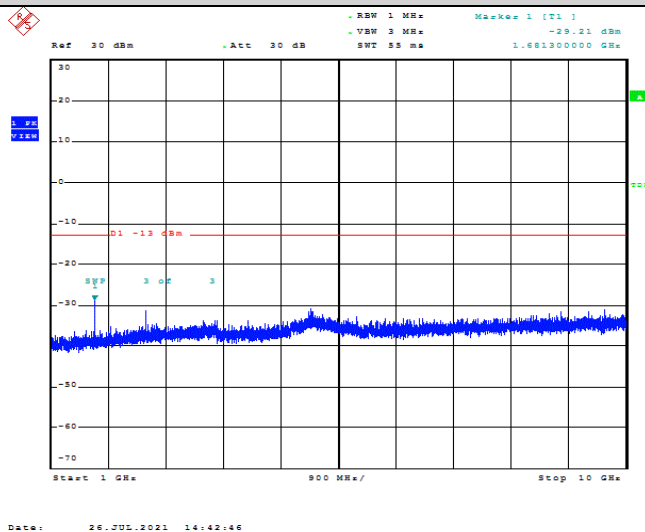
Band19-5MHz-QPSK-24075-1RB#0-Range1:1000~10000MHz



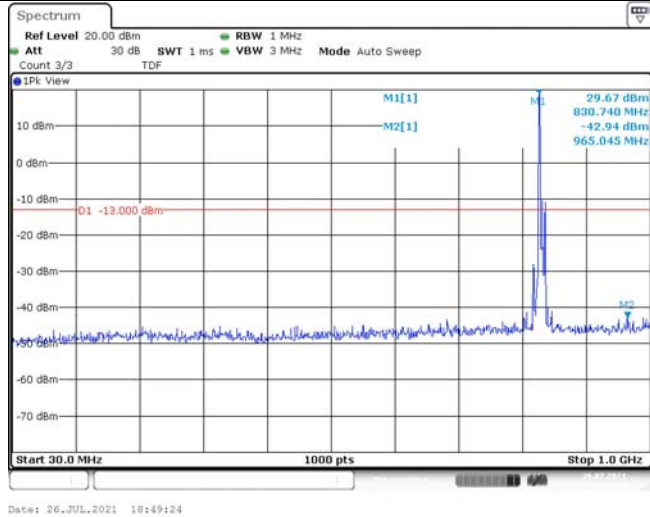
Band19-5MHz-QPSK-24125-1RB#0-Range1:30~1000MHz



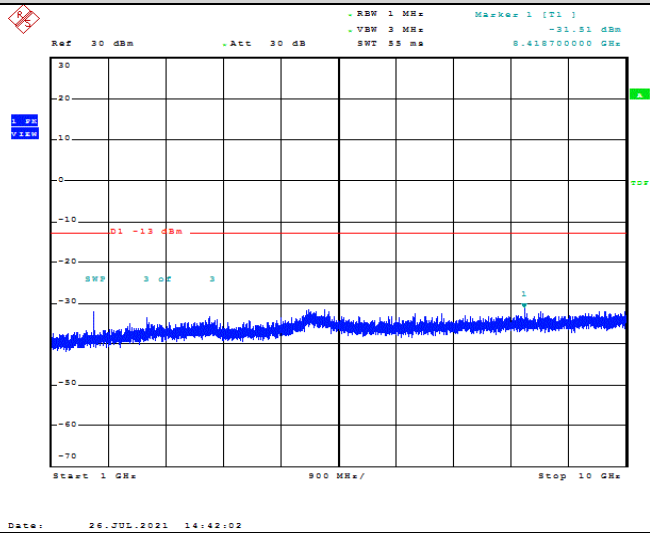
Band19-5MHz-QPSK-24125-1RB#0-Range1:1000~10000MHz



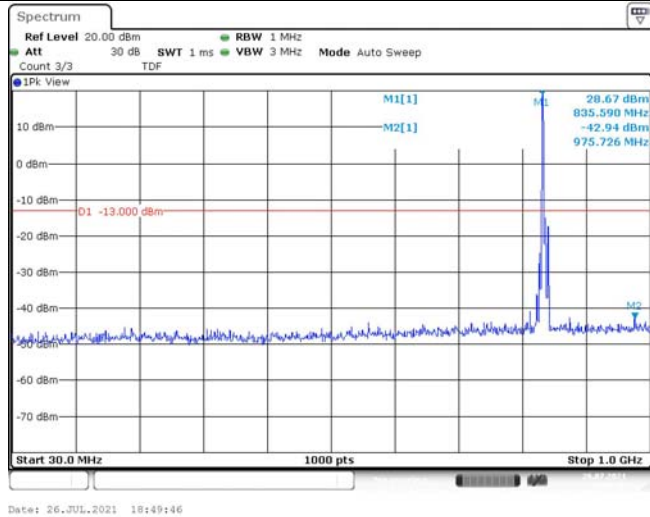
Band19-5MHz-16QAM-24025-1RB#0-Range1:30~1000MHz



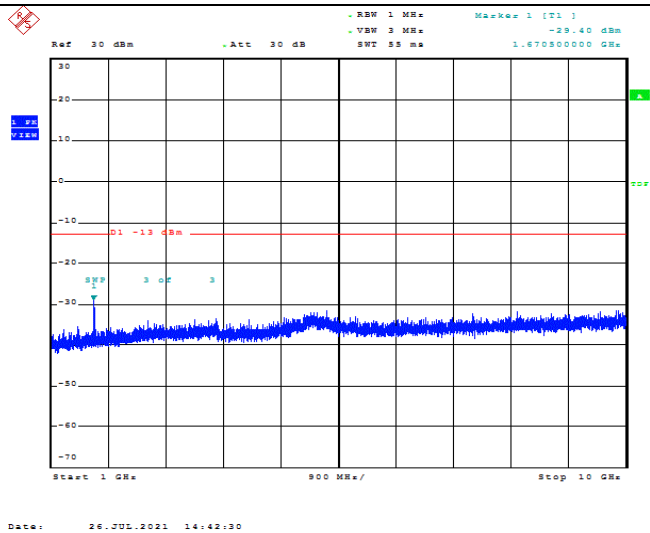
Band19-5MHz-16QAM-24025-1RB#0-Range1:1000~10000MHz



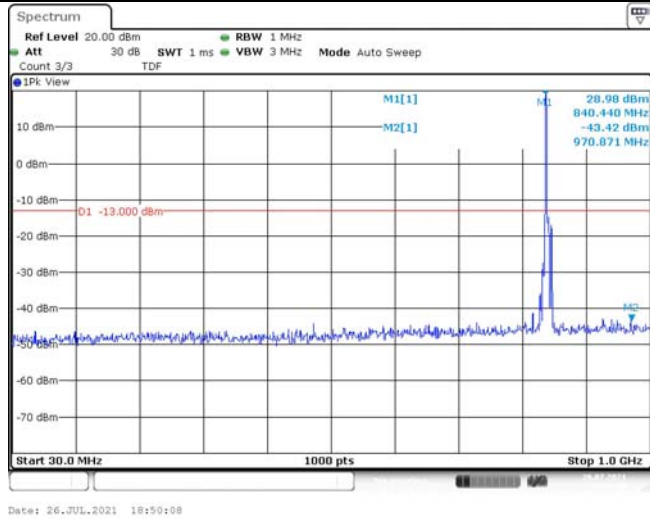
Band19-5MHz-16QAM-24075-1RB#0-Range1:30~1000MHz



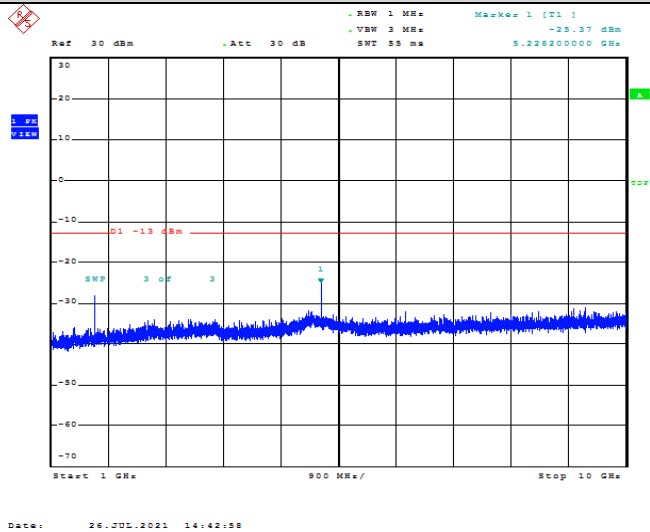
Band19-5MHz-16QAM-24075-1RB#0-Range1:1000~10000MHz



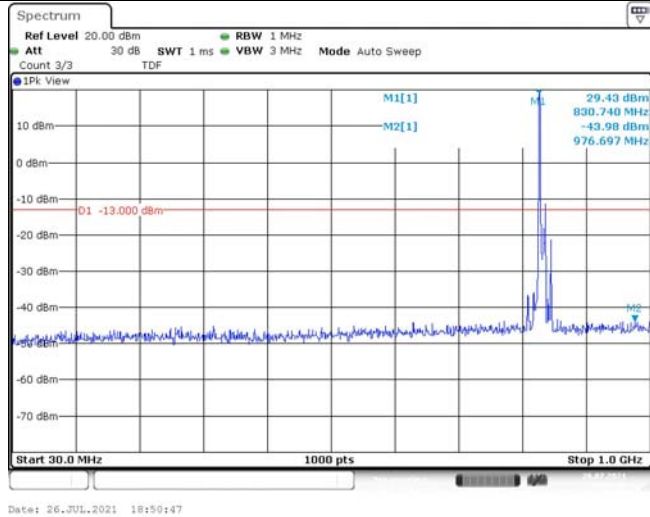
Band19-5MHz-16QAM-24125-1RB#0-Range1:30~1000MHz



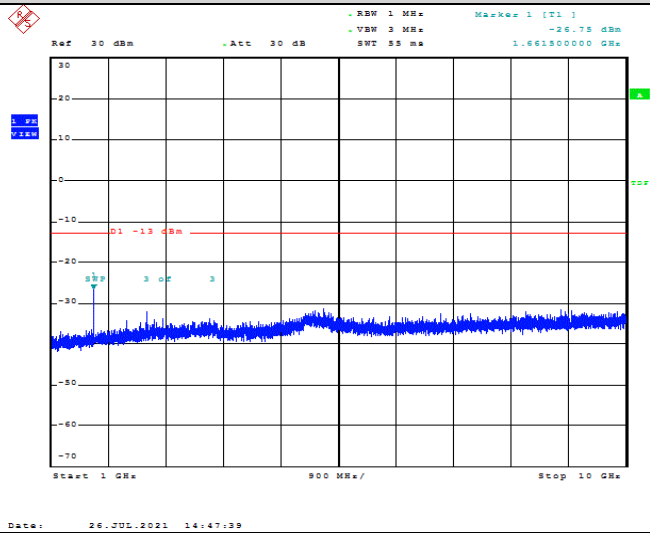
Band19-5MHz-16QAM-24125-1RB#0-Range1:1000~10000MHz



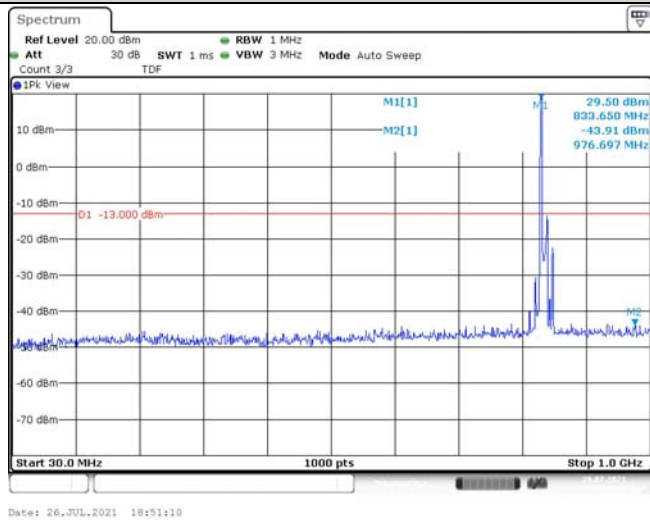
Band19-10MHz-QPSK-24050-1RB#0-Range1:30~1000MHz



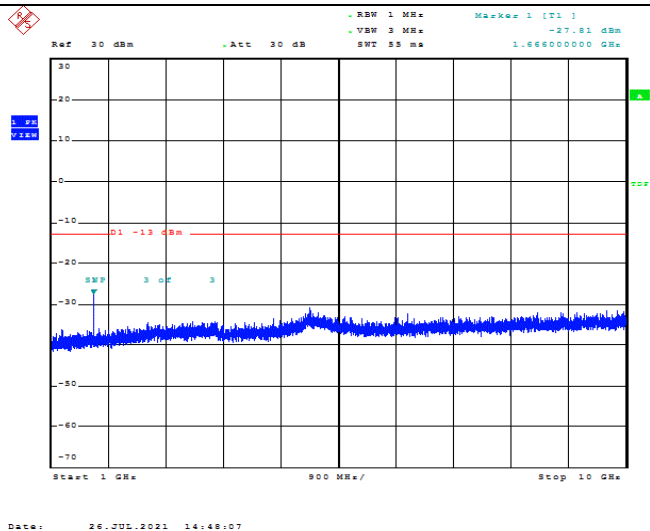
Band19-10MHz-QPSK-24050-1RB#0-Range1:1000~10000MHz



Band19-10MHz-QPSK-24075-1RB#0-Range1:30~1000MHz

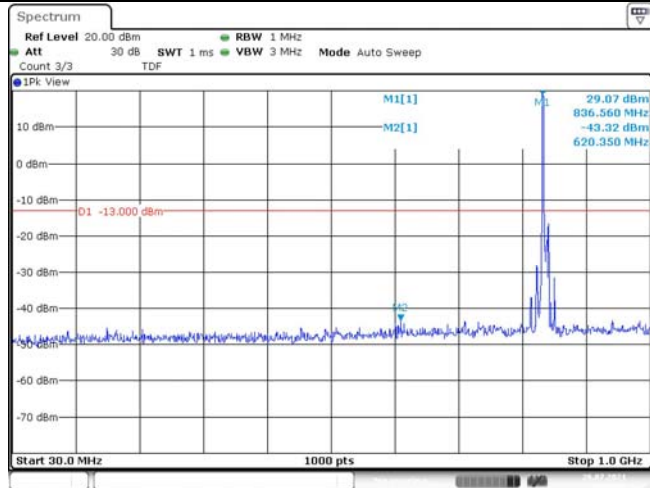


Band19-10MHz-QPSK-24075-1RB#0-Range1:1000~10000MHz



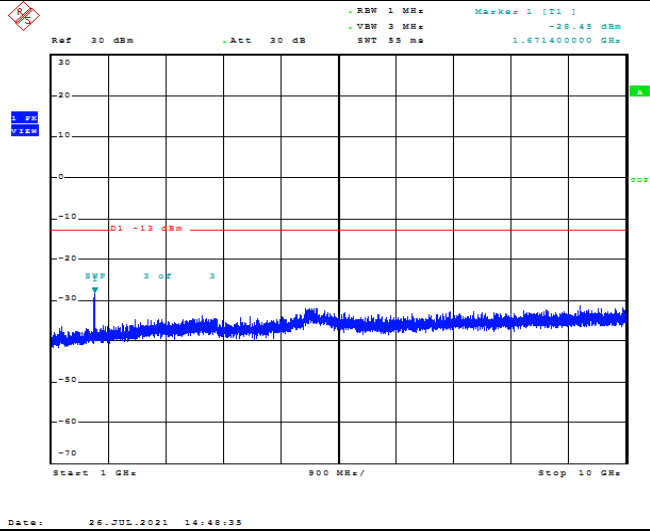
Date: 26.JUL.2021 14:48:07

Band19-10MHz-QPSK-24100-1RB#0-Range1:30~1000MHz



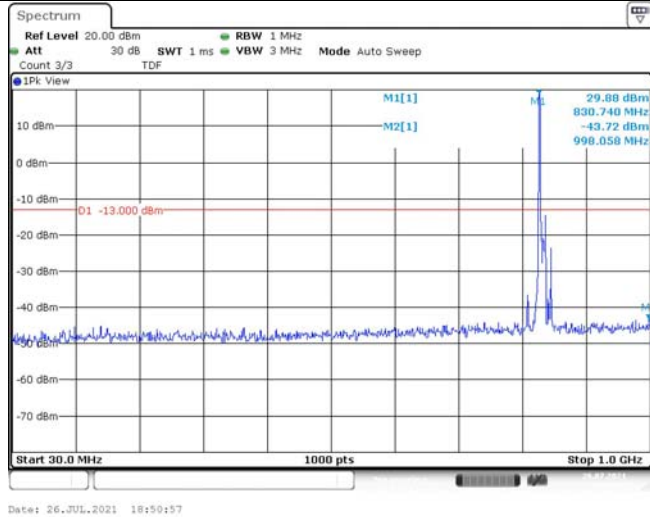
Date: 26.JUL.2021 18:51:32

Band19-10MHz-QPSK-24100-1RB#0-Range1:1000~10000MHz

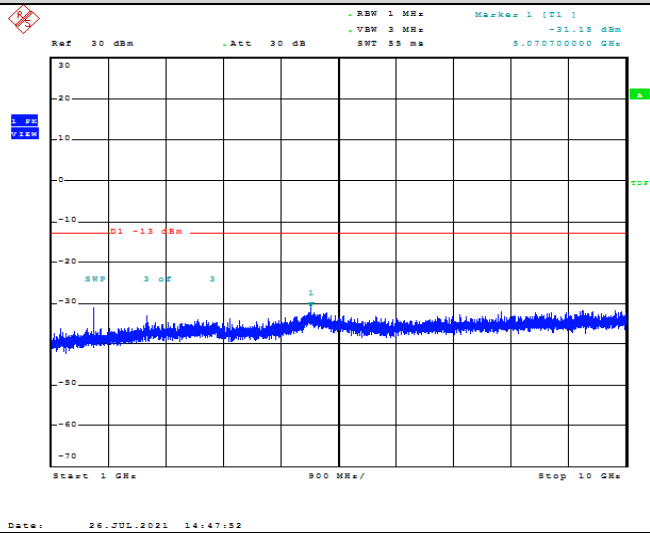


Date: 26.JUL.2021 14:48:35

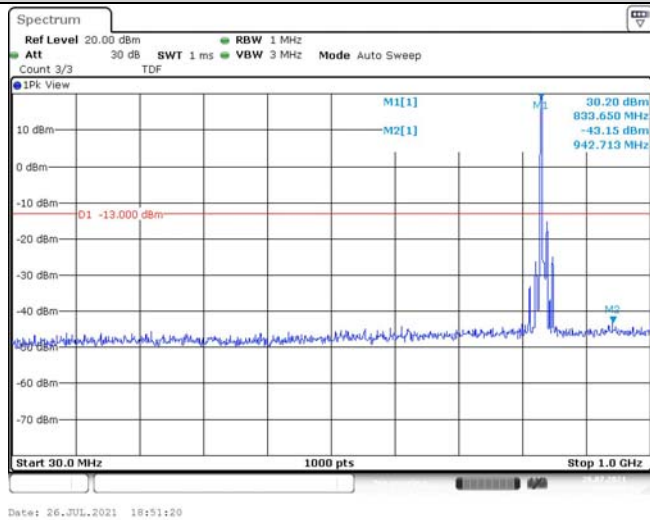
Band19-10MHz-16QAM-24050-1RB#0-Range1:30~1000MHz



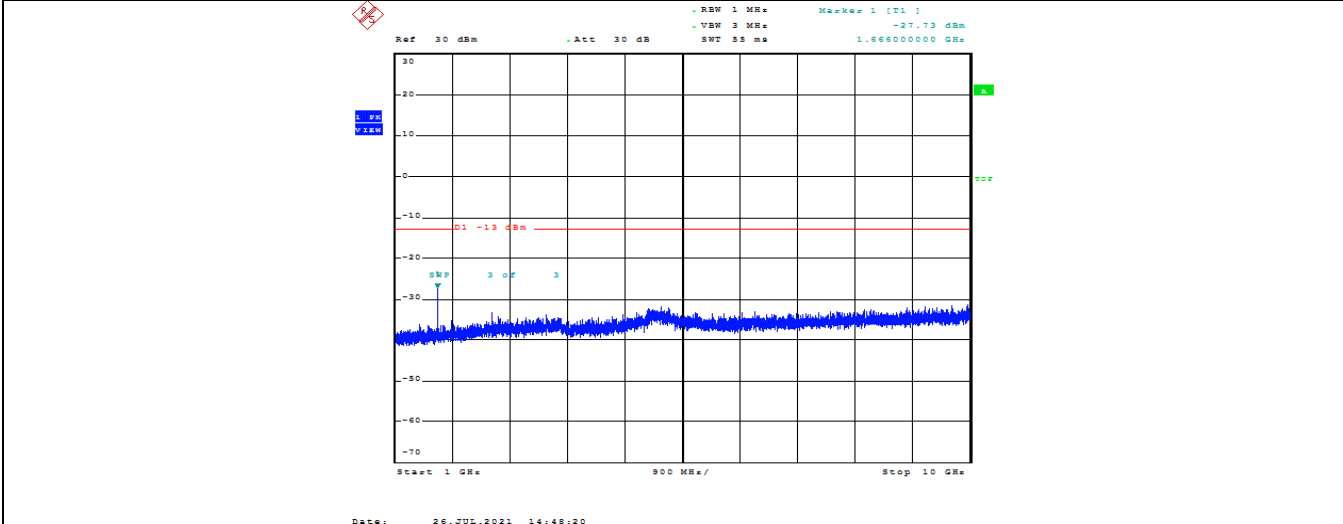
Band19-10MHz-16QAM-24050-1RB#0-Range1:1000~10000MHz



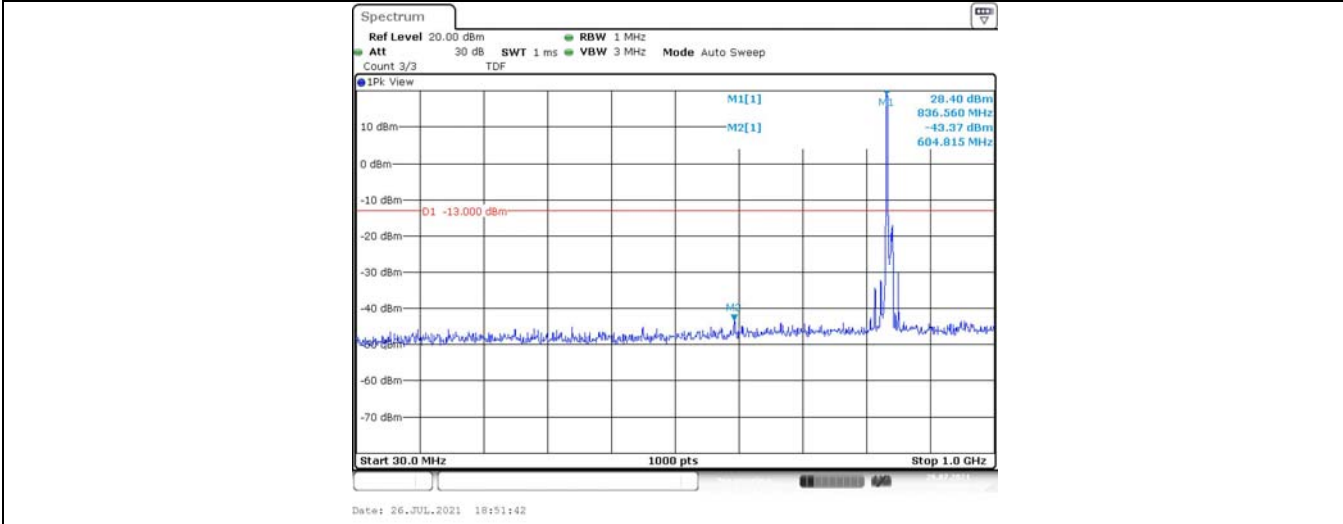
Band19-10MHz-16QAM-24075-1RB#0-Range1:30~1000MHz



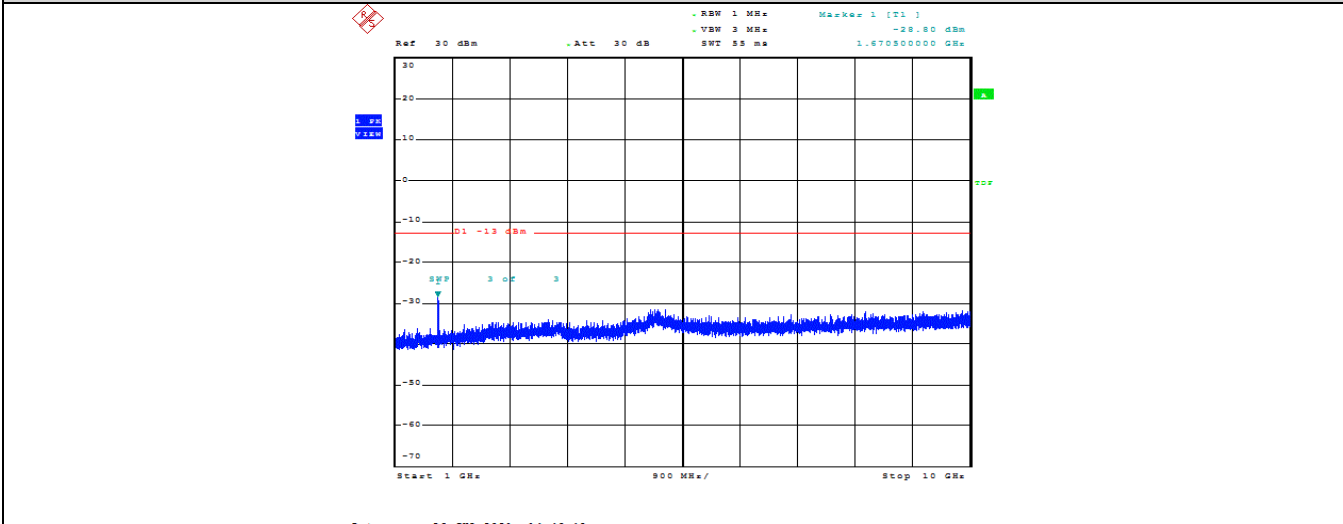
Band19-10MHz-16QAM-24075-1RB#0-Range1:1000~10000MHz



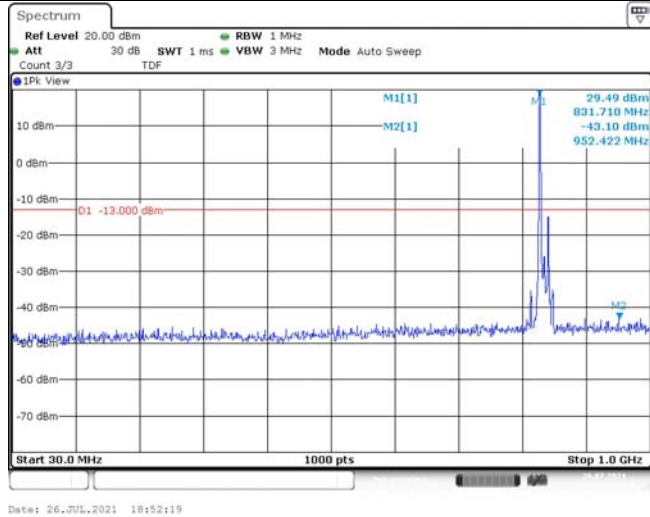
Band19-10MHz-16QAM-24100-1RB#0-Range1:30~1000MHz



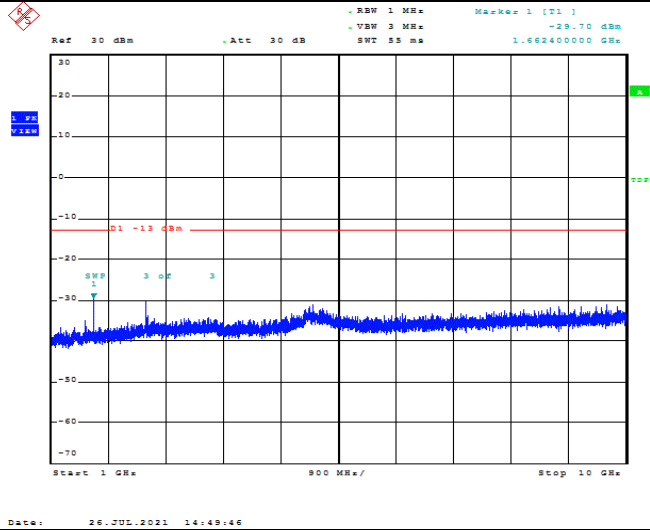
Band19-10MHz-16QAM-24100-1RB#0-Range1:1000~10000MHz



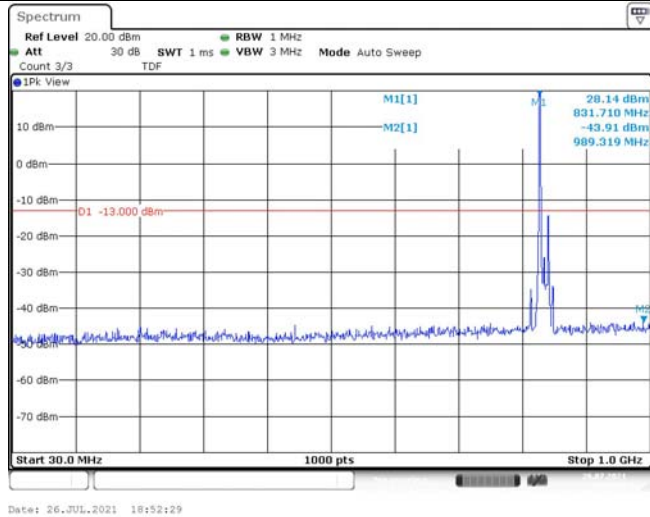
Band19-15MHz-QPSK-24075-1RB#0-Range1:30~1000MHz



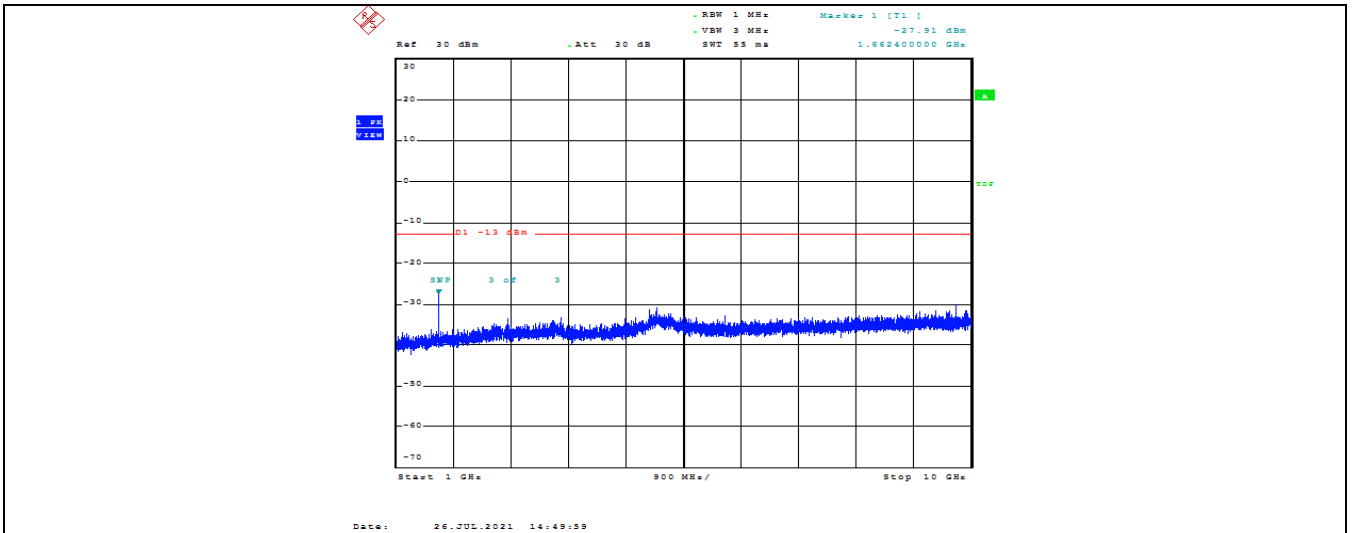
Band19-15MHz-QPSK-24075-1RB#0-Range1:1000~10000MHz



Band19-15MHz-16QAM-24075-1RB#0-Range1:30~1000MHz



Band19-15MHz-16QAM-24075-1RB#0-Range1:1000~10000MHz



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
Band19	5MHz	QPSK	24025	25RB#0	VL	NT	-2.85	-0.003423	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	VN	NT	-2.32	-0.002787	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	VH	NT	-2.90	-0.003483	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	VL	NT	2.12	0.002531	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	VN	NT	-1.47	-0.001755	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	VH	NT	-2.62	-0.003128	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	VL	NT	-1.49	-0.001769	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	VN	NT	-2.69	-0.003193	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	VH	NT	-3.12	-0.003703	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	VL	NT	-2.90	-0.003483	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	VN	NT	-2.75	-0.003303	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	VH	NT	-2.65	-0.003183	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	VL	NT	1.47	0.001755	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	VN	NT	1.80	0.002149	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	VH	NT	3.43	0.004096	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	VL	NT	1.56	0.001852	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	VN	NT	-3.15	-0.003739	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	VH	NT	-2.46	-0.002920	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	VL	NT	-1.36	-0.001629	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	VN	NT	-1.60	-0.001916	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	VH	NT	-2.50	-0.002994	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	VL	NT	-1.56	-0.001863	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	VN	NT	-2.49	-0.002973	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	VH	NT	2.73	0.003260	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	VL	NT	-3.78	-0.004500	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	VN	NT	-3.19	-0.003798	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	VH	NT	-2.92	-0.003476	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	VL	NT	-2.10	-0.002515	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	VN	NT	-1.07	-0.001281	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	VH	NT	-1.75	-0.002096	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	VL	NT	3.02	0.003606	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	VN	NT	-0.96	-0.001146	±2.5	PASS

Band19	10MHz	16QAM	24075	50RB#0	VH	NT	-2.42	-0.002890	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	VL	NT	-2.02	-0.002405	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	VN	NT	-4.61	-0.005488	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	VH	NT	-3.72	-0.004429	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	VL	NT	2.63	0.003140	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	VN	NT	-1.72	-0.002054	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	VH	NT	2.37	0.002830	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	VL	NT	-1.96	-0.002340	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	VN	NT	1.42	0.001696	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	VH	NT	2.75	0.003284	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band19	5MHz	QPSK	24025	25RB#0	NV	0	-1.92	-0.002306	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	10	-2.55	-0.003063	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	20	-2.42	-0.002907	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	30	-2.86	-0.003435	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	40	-1.96	-0.002354	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	45	-1.32	-0.001586	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	0	-1.39	-0.001660	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	10	-1.56	-0.001863	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	20	-2.06	-0.002460	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	30	1.95	0.002328	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	40	2.25	0.002687	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	45	1.96	0.002340	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	0	-2.37	-0.002813	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	10	-1.43	-0.001697	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	20	-2.37	-0.002813	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	30	-1.37	-0.001626	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	40	1.85	0.002196	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	45	-2.43	-0.002884	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	0	-2.98	-0.003580	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	10	-4.03	-0.004841	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	20	-1.59	-0.001910	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	30	-3.85	-0.004625	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	40	-3.86	-0.004637	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	45	-3.56	-0.004276	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	0	1.10	0.001313	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	10	-1.34	-0.001600	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	20	-1.86	-0.002221	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	30	-2.53	-0.003021	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	40	3.05	0.003642	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	45	2.16	0.002579	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	0	-3.43	-0.004071	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	10	-2.53	-0.003003	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	20	1.93	0.002291	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	30	-2.42	-0.002872	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	40	-4.43	-0.005258	±2.5	PASS

Band19	5MHz	16QAM	24125	25RB#0	NV	45	1.03	0.001223	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	0	-1.73	-0.002072	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	10	-2.05	-0.002455	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	20	-3.22	-0.003856	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	30	-2.53	-0.003030	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	40	-1.67	-0.002000	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	45	-2.62	-0.003138	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	0	2.00	0.002388	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	10	-2.33	-0.002782	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	20	-3.79	-0.004525	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	30	-2.00	-0.002388	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	40	2.13	0.002543	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	45	1.60	0.001910	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	0	-2.89	-0.003440	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	10	-2.89	-0.003440	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	20	-3.66	-0.004357	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	30	-2.26	-0.002690	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	40	-4.05	-0.004821	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	45	-2.49	-0.002964	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	0	1.10	0.001317	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	10	1.54	0.001844	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	20	1.34	0.001605	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	30	-2.96	-0.003545	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	40	-3.13	-0.003749	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	45	2.15	0.002575	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	0	-1.67	-0.001994	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	10	2.78	0.003319	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	20	-2.72	-0.003248	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	30	1.99	0.002376	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	40	-2.49	-0.002973	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	45	2.70	0.003224	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	0	-5.01	-0.005964	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	10	-2.75	-0.003274	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	20	-3.92	-0.004667	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	30	-3.63	-0.004321	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	40	-3.71	-0.004417	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	45	-2.96	-0.003524	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	0	1.32	0.001576	±2.5	PASS

Band19	15MHz	QPSK	24075	75RB#0	NV	10	-1.70	-0.002030	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	20	-1.83	-0.002185	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	30	-2.68	-0.003200	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	40	1.79	0.002137	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	45	-3.25	-0.003881	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	0	-2.68	-0.003200	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	10	-3.35	-0.004000	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	20	-2.39	-0.002854	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	30	-2.65	-0.003164	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	40	-2.59	-0.003093	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	45	-1.79	-0.002137	±2.5	PASS

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