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Appendix B.19

LTE CA_5B



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	1RB#0-0RB#0	24.09	24.94	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	24.2	25.05	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	24.24	25.09	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	24.3	25.15	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	24.22	25.07	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	24.26	25.11	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	23.47	24.32	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	22.2	23.05	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	23.62	24.47	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	22.32	23.17	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	23.75	24.6	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	22.31	23.16	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	22.45	23.3	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	21.21	22.06	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	22.56	23.41	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	21.32	22.17	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	22.43	23.28	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	21.26	22.11	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	24.09	24.94	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	24.24	25.09	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	24.22	25.07	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	24.28	25.13	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	24.25	25.1	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	24.19	25.04	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	23.53	24.38	38.45	PASS



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5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	22.21	23.06	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	23.81	24.66	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	22.31	23.16	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	23.79	24.64	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	22.22	23.07	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	22.4	23.25	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	21.22	22.07	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	22.51	23.36	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	21.33	22.18	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	22.41	23.26	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	21.21	22.06	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	24.07	24.92	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	24.19	25.04	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	24.17	25.02	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	24.26	25.11	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	24.19	25.04	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	24.18	25.03	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	23.7	24.55	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	22.22	23.07	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	23.53	24.38	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	22.3	23.15	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	23.55	24.4	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	22.19	23.04	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	22.51	23.36	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	21.23	22.08	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	22.52	23.37	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	21.33	22.18	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	22.54	23.39	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	21.2	22.05	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	6.28	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	6.16	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	5.98	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	7.18	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	7.02	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	6.94	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	7.44	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	7.28	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	7.20	13	PASS

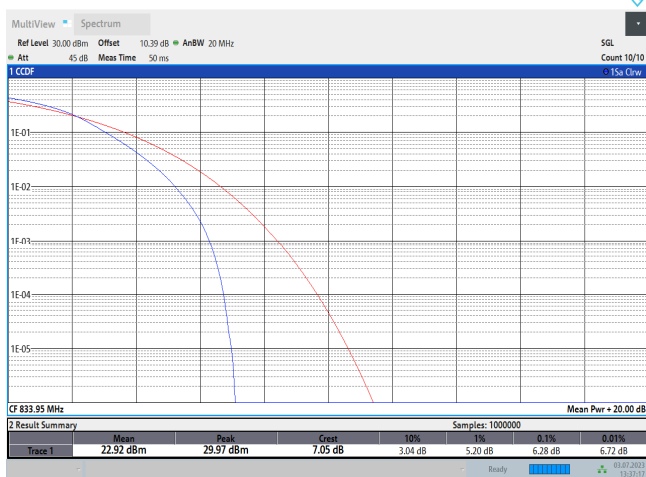


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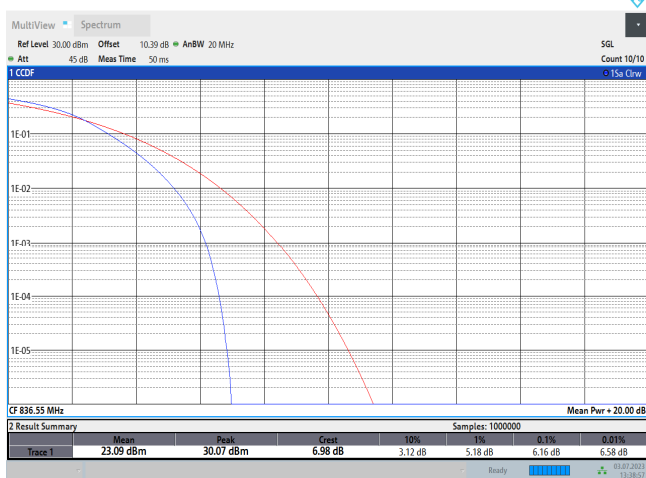
Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



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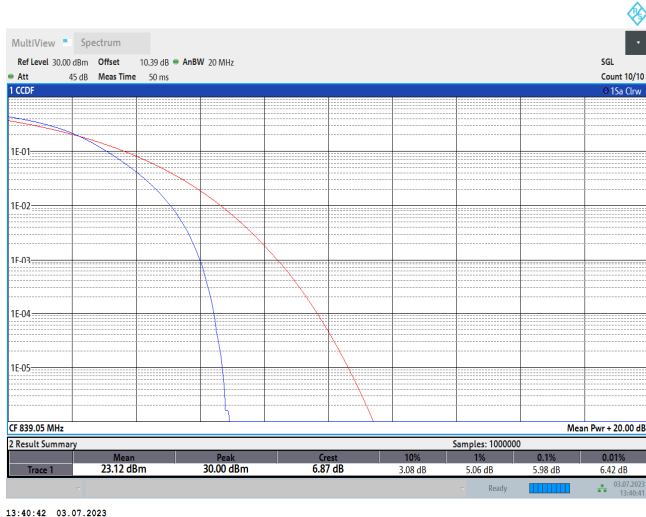
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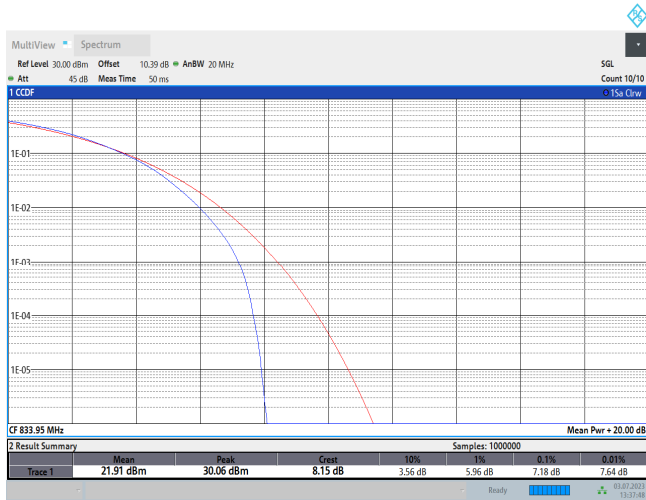
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



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5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



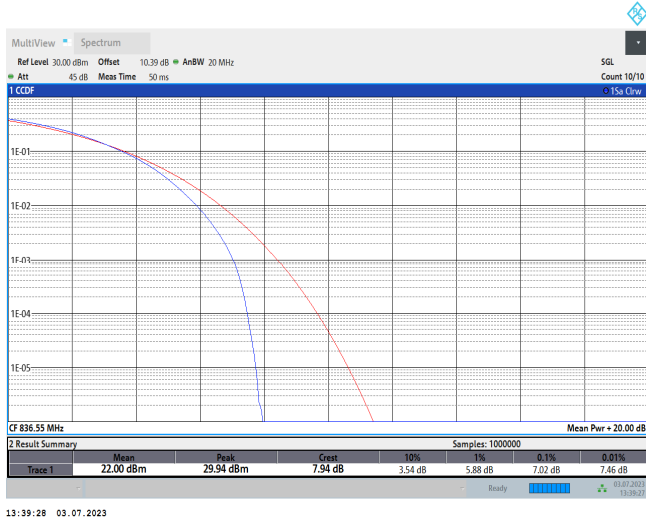
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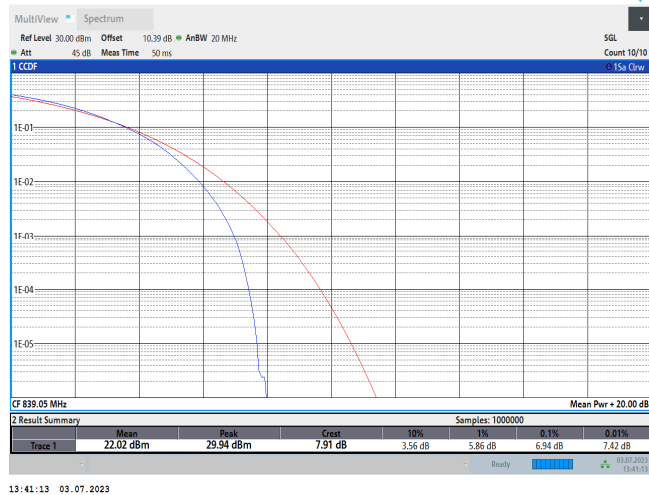
5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



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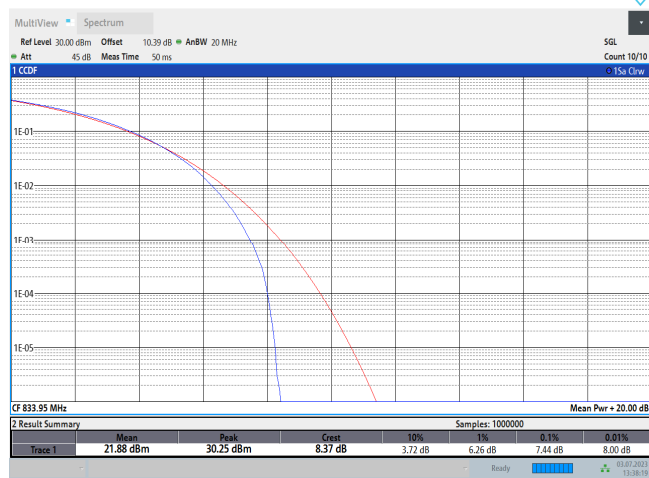
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5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



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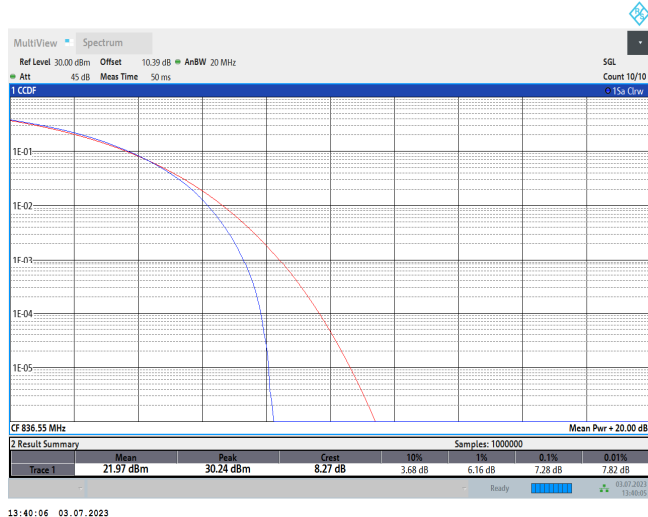


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5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



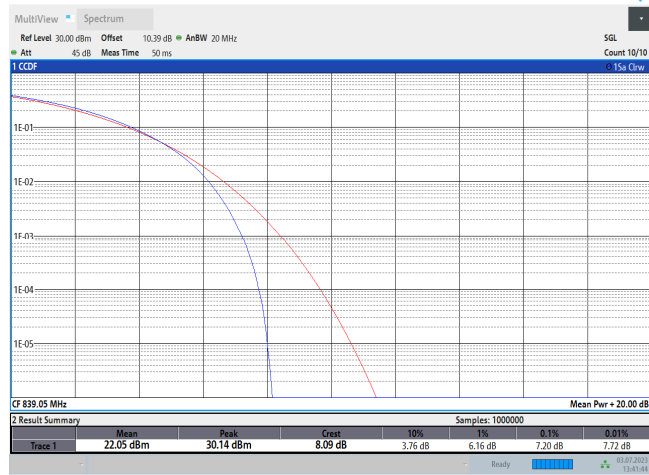
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5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



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Modulation Characteristics

Test Result

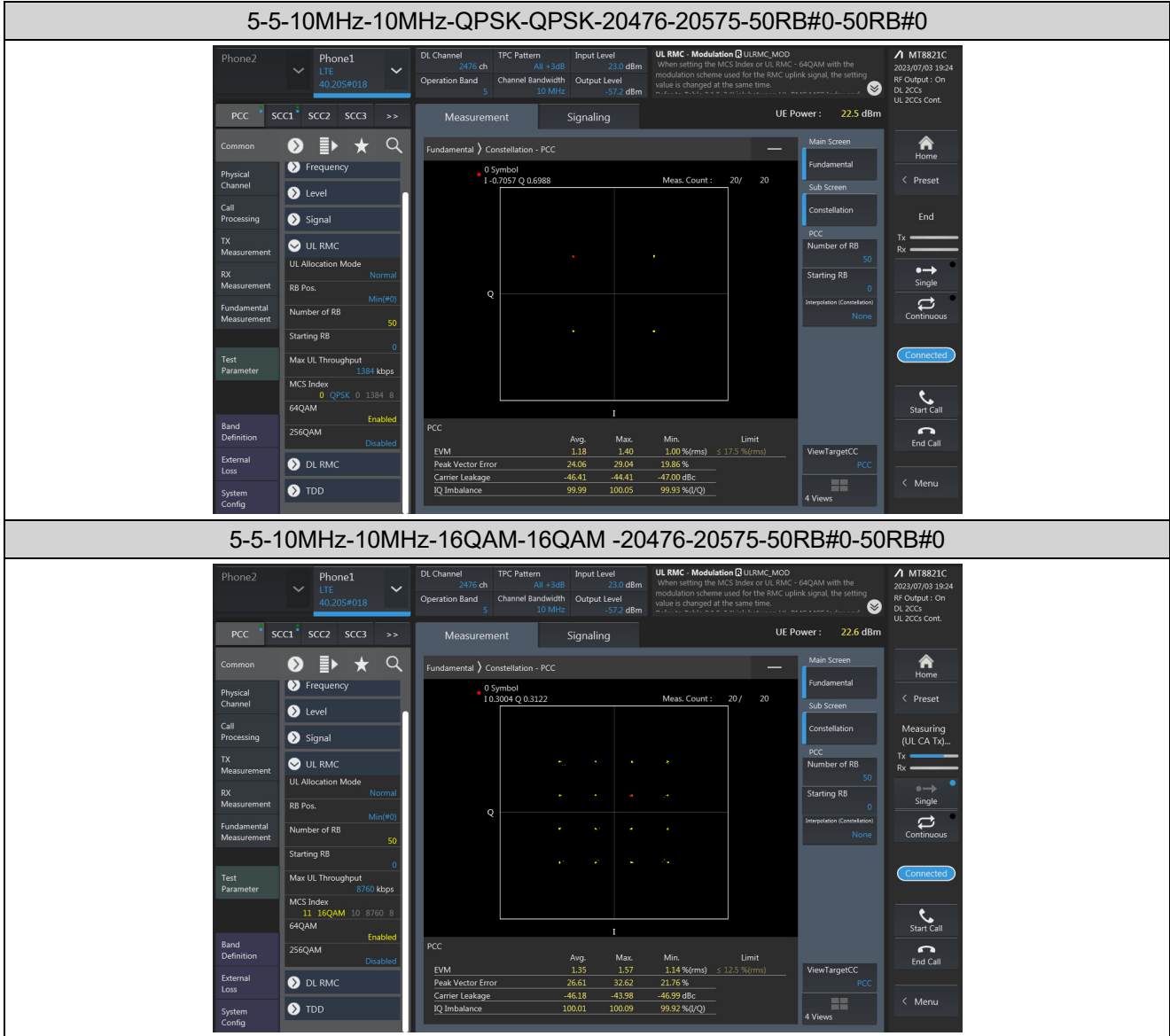
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	PASS	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	PASS	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	PASS	PASS



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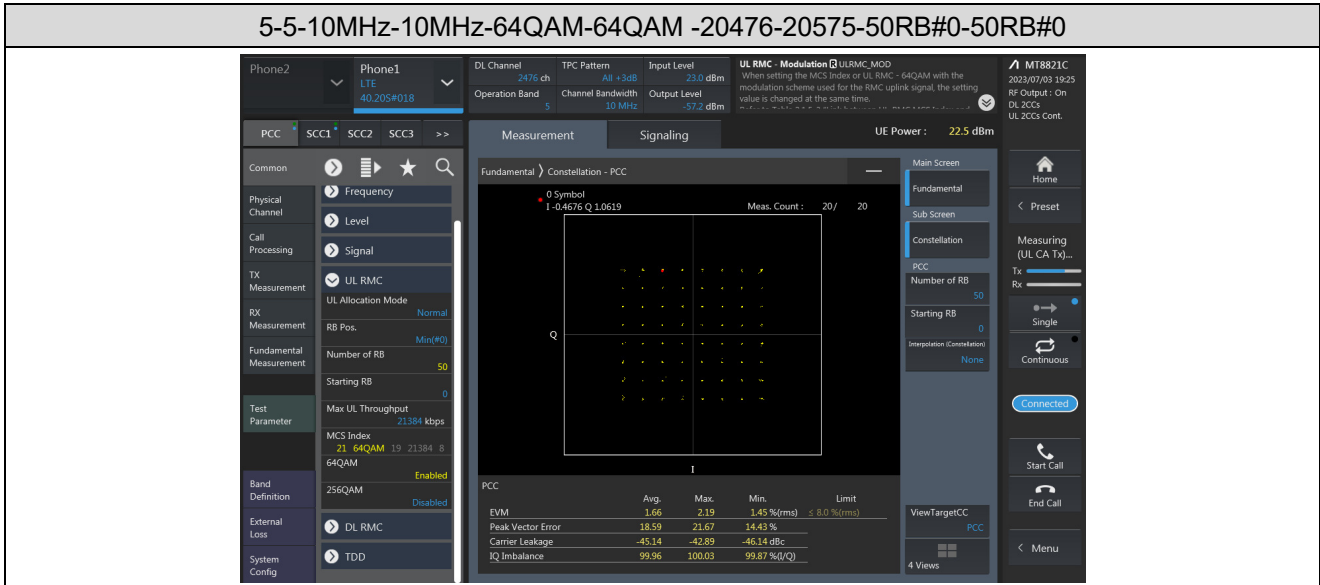
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	18.842	20.16	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.82	20.16	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	18.783	20.16	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	18.8	20.08	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.779	20.16	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	18.767	20.08	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	18.79	20.28	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.765	20.28	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	18.734	20.28	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	13.883	14.88	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.843	14.85	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	13.859	14.85	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	13.877	14.85	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.861	14.82	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	13.847	14.79	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	13.88	14.94	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.85	14.91	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	13.843	14.94	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	13.861	14.73	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.845	14.73	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	13.826	14.67	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	13.853	14.73	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.833	14.73	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	13.804	14.73	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	13.848	14.76	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.846	14.73	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	13.816	14.76	PASS

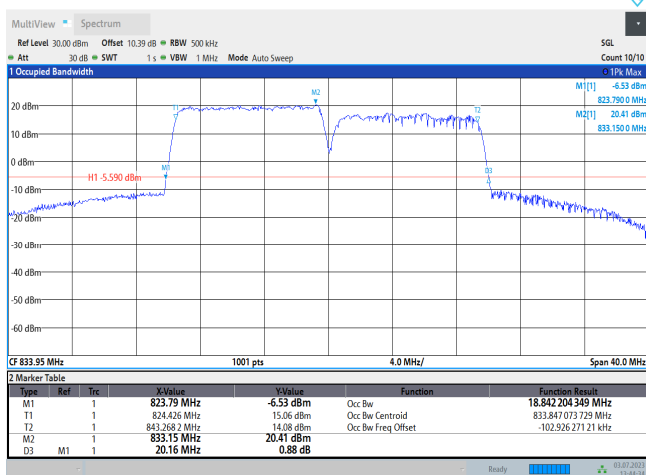


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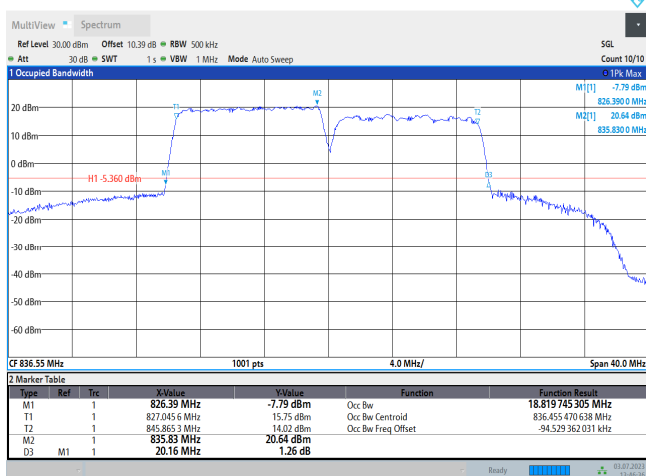
Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



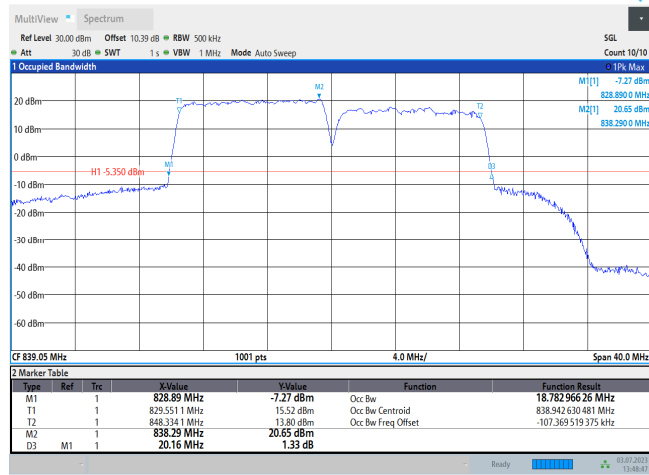
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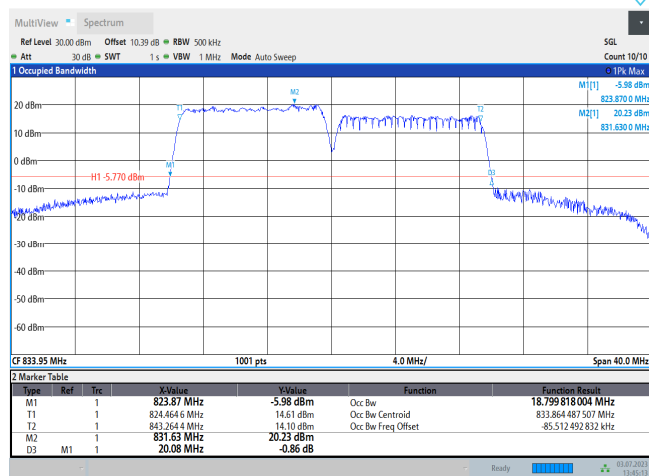
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



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5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



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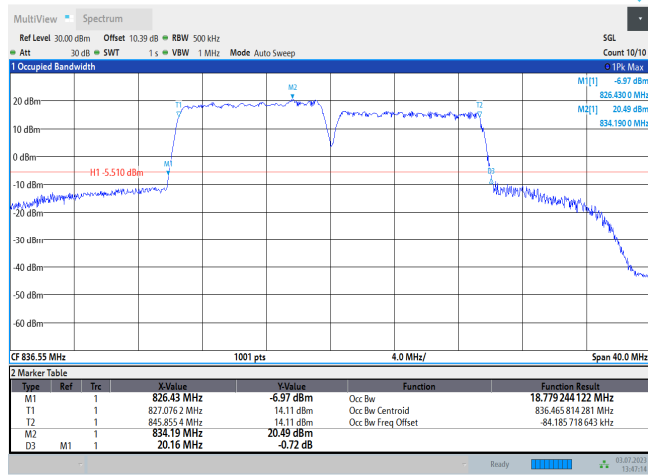


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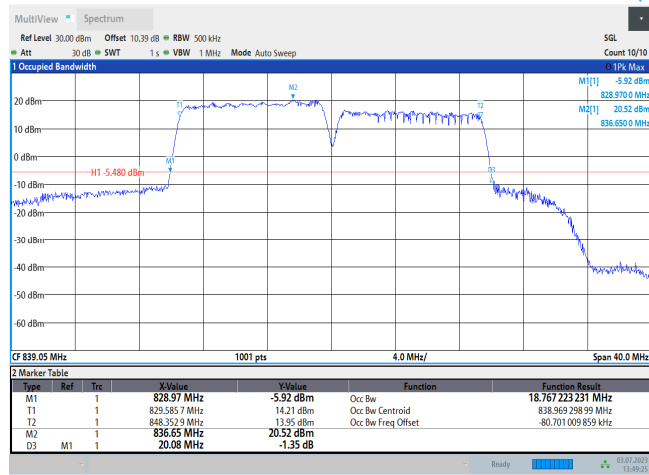


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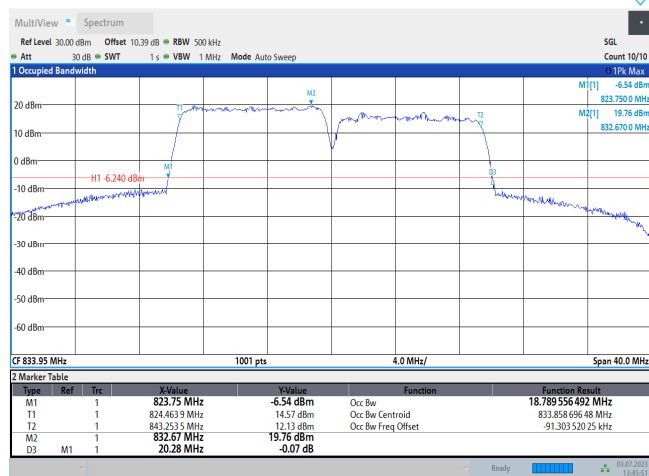
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5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



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 Rev.: 01
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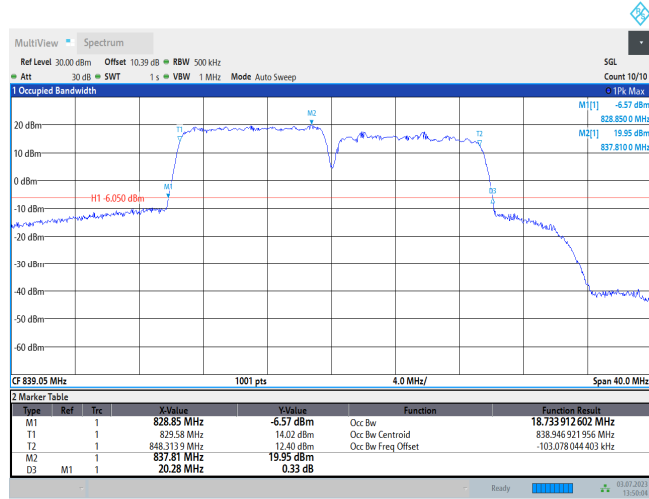
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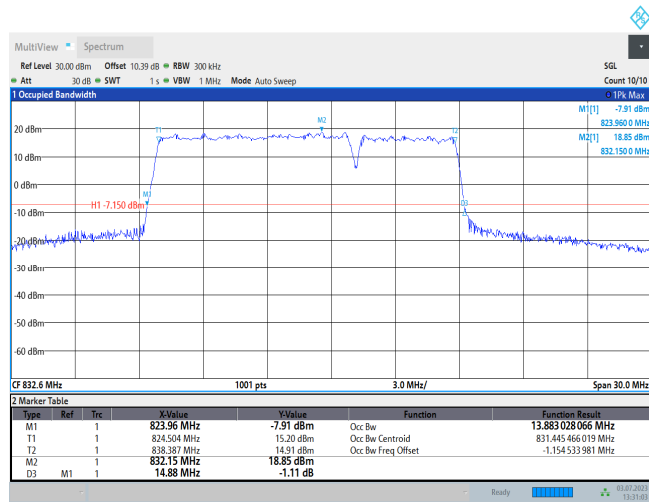
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5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



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5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



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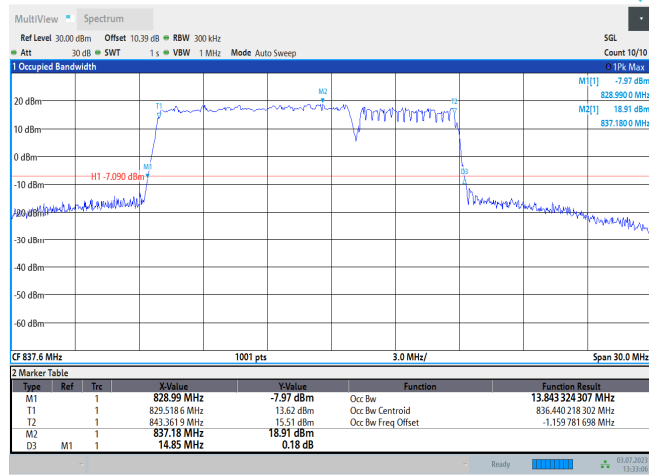


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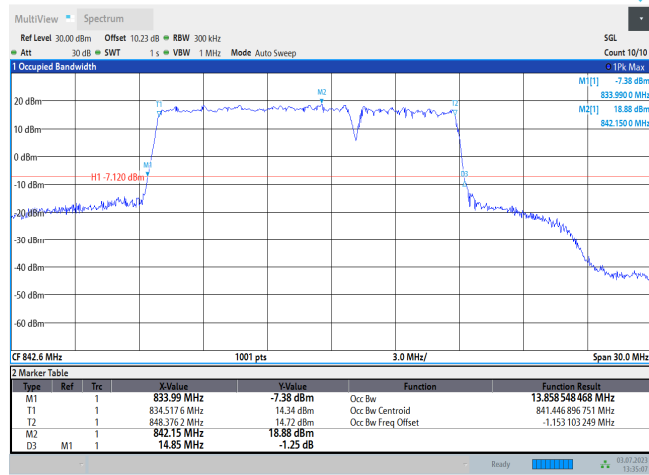


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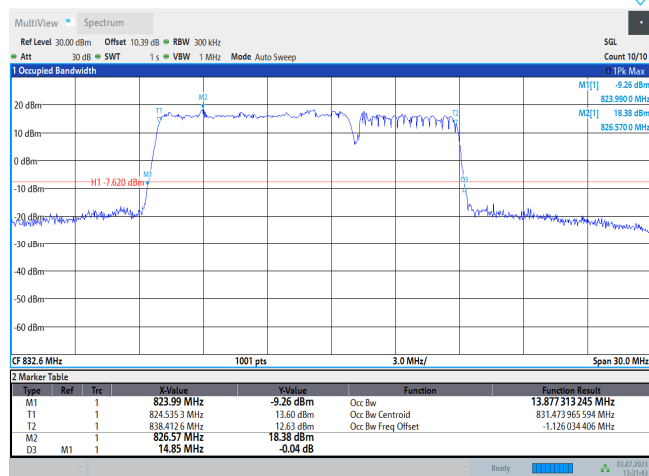
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5-5-10MHz-5MHz-16QAM-16QAM-20450-20522-50RB#0-25RB#0



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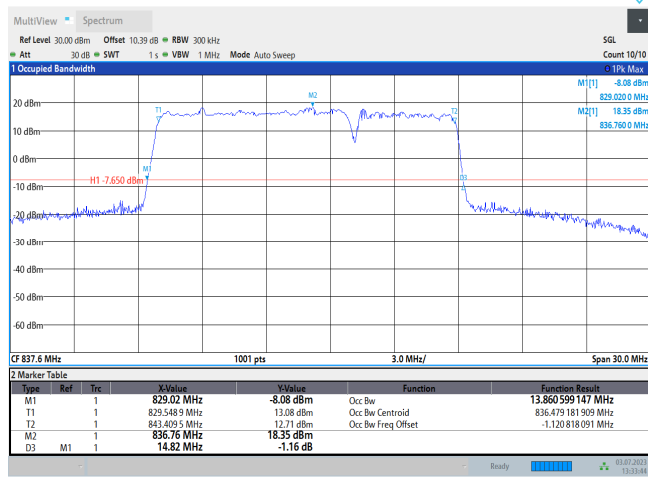


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5-5-10MHz-5MHz-16QAM-16QAM-20500-20572-50RB#0-25RB#0



13:33:45 03.07.2023

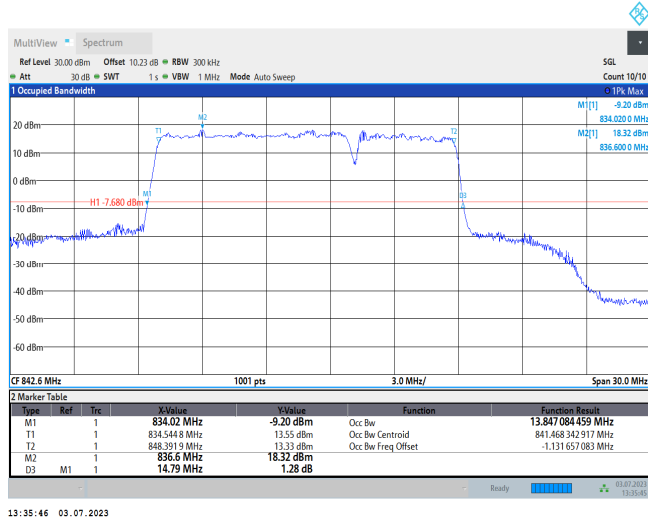


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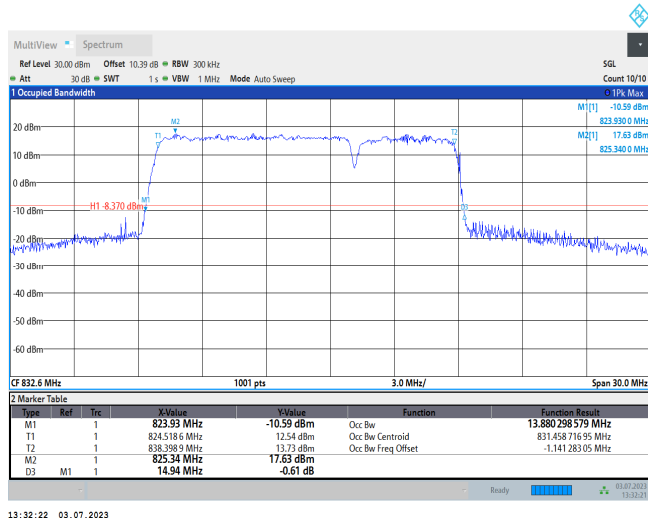
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5-5-10MHz-5MHz-16QAM-16QAM-20550-20622-50RB#0-25RB#0



13:35:46 03.07.2023

5-5-10MHz-5MHz-64QAM-64QAM-20450-20522-50RB#0-25RB#0

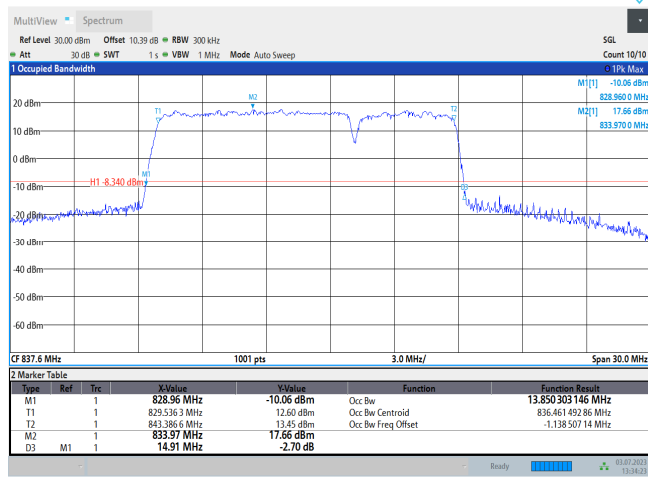


13:32:22 03.07.2023



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5-5-10MHz-5MHz-64QAM-64QAM-20500-20572-50RB#0-25RB#0



13:34:23 03.07.2023



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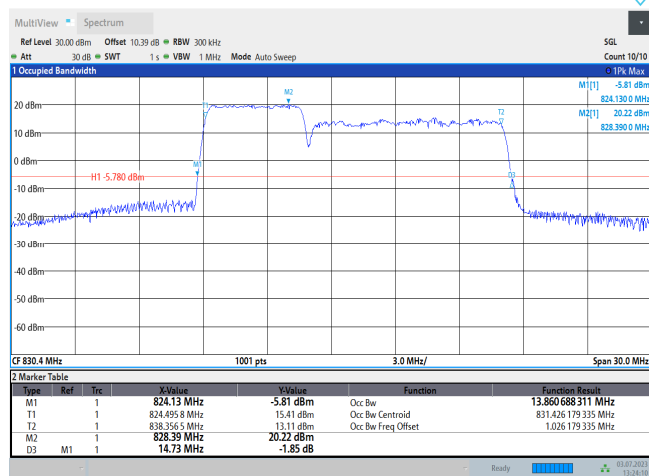
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5-5-10MHz-5MHz-64QAM-64QAM-20550-20622-50RB#0-25RB#0



13:36:25 03.07.2023

5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



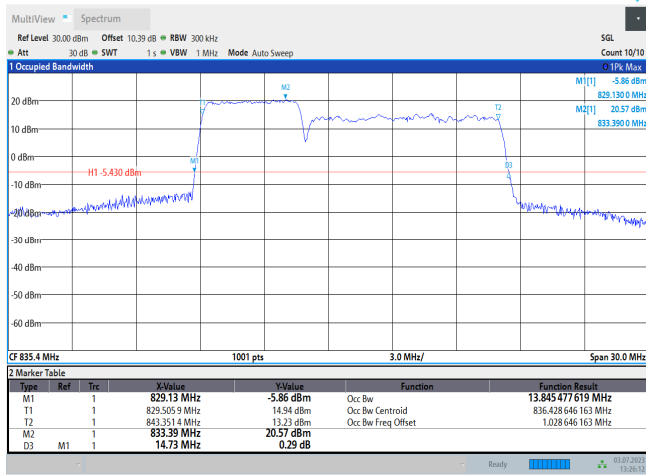
13:24:11 03.07.2023



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5-5-5MHz-10MHz-QPSK-QPSK-20478-20550-25RB#0-50RB#0



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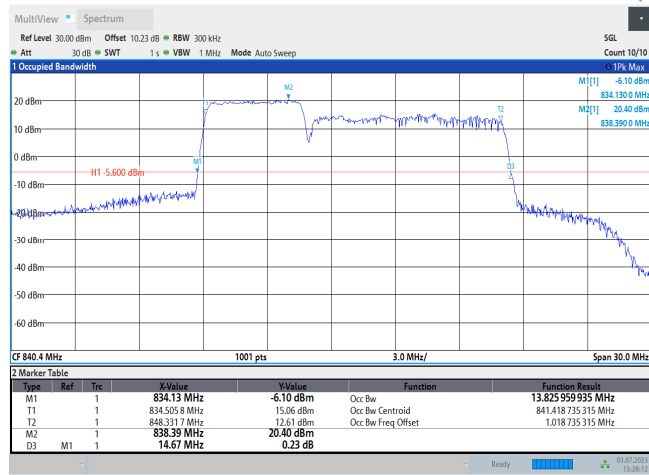


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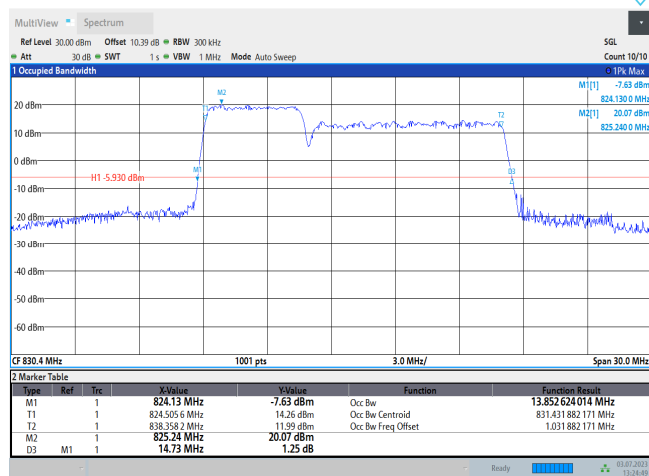
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5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



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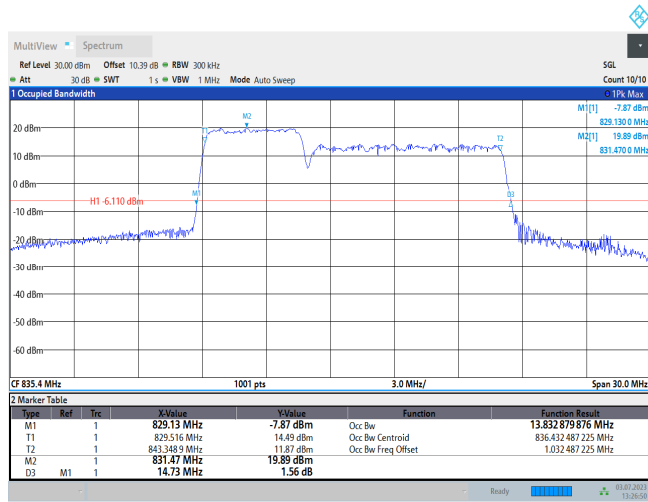
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13:26:51 03.07.2023

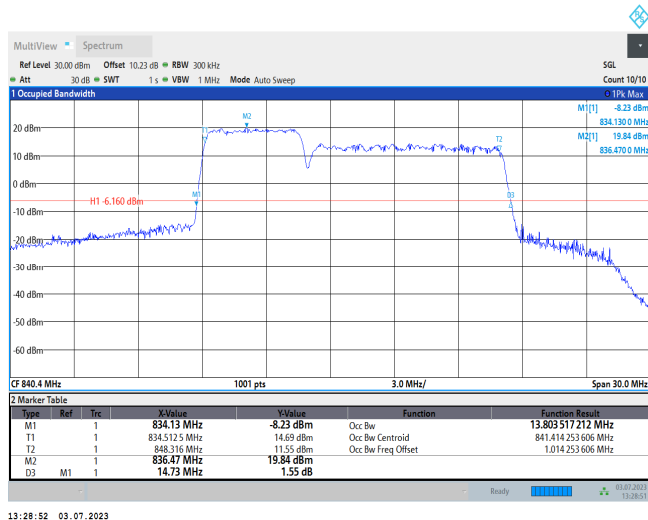


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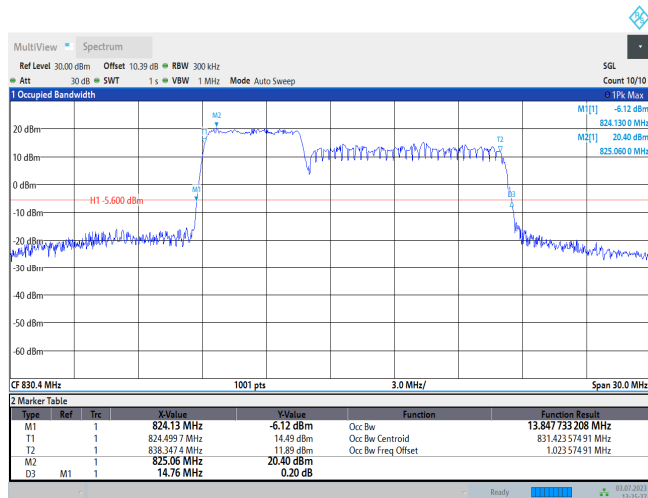
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5-5-5MHz-10MHz-16QAM-16QAM-20528-20600-25RB#0-50RB#0



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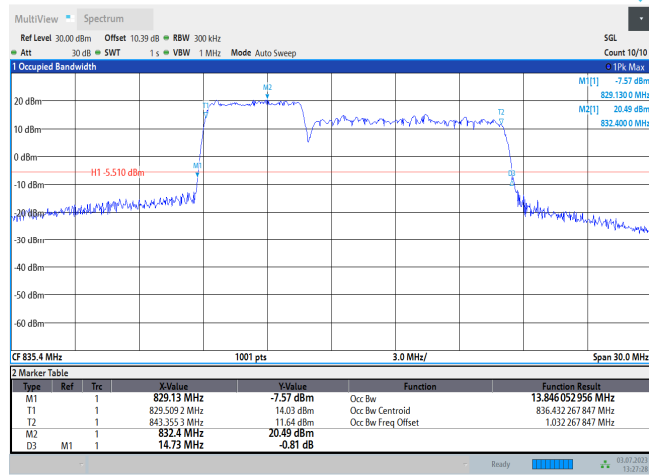
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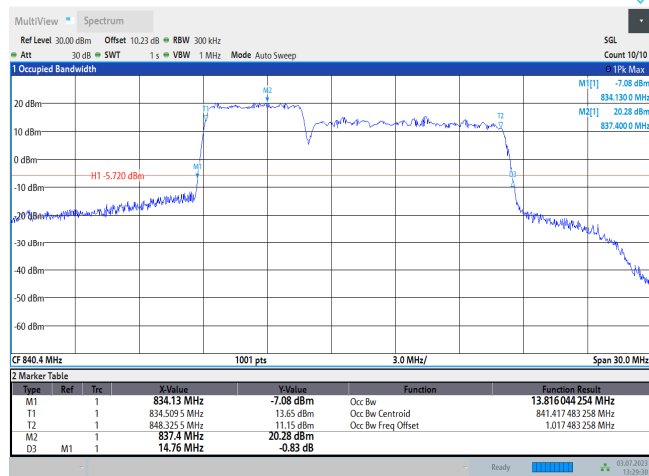
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5-5-5MHz-10MHz-64QAM-64QAM-20478-20550-25RB#0-50RB#0



13:27:29 03.07.2023

5-5-5MHz-10MHz-64QAM-64QAM-20528-20600-25RB#0-50RB#0



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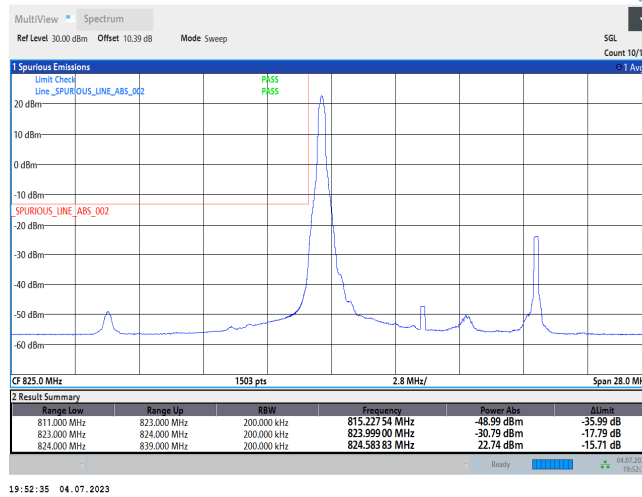
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Band Edge

Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0



19:52:35 04.07.2023

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0

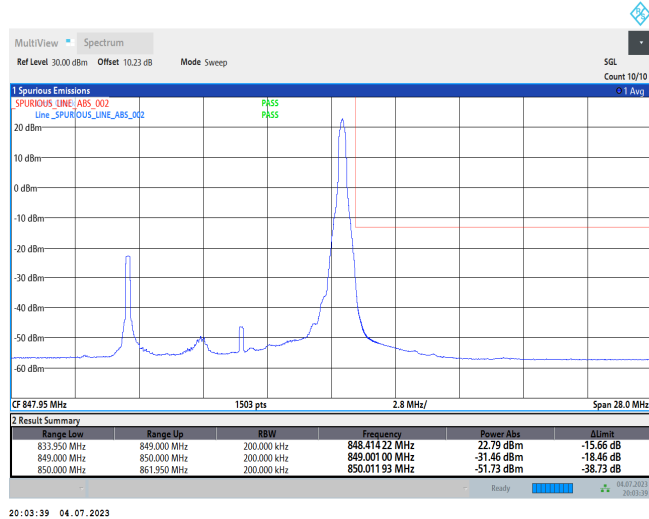


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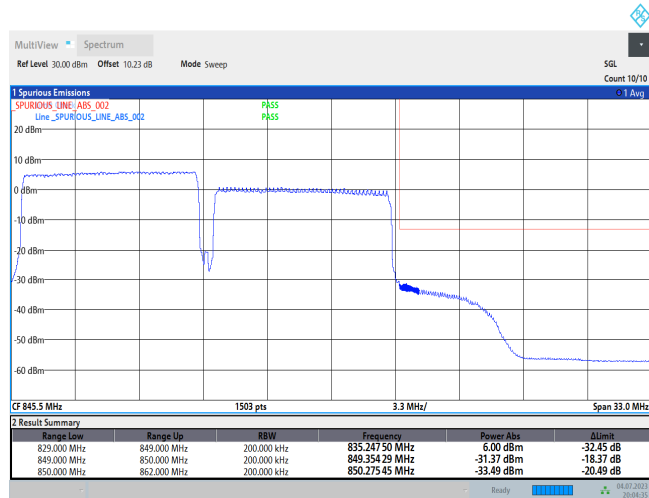
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-0RB#0-1RB#49



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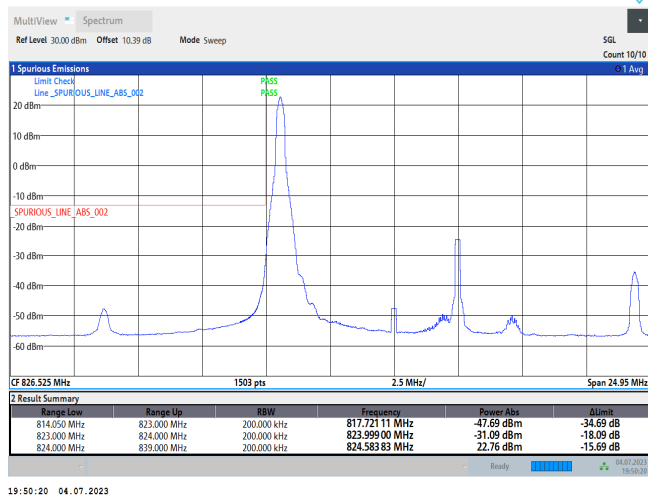
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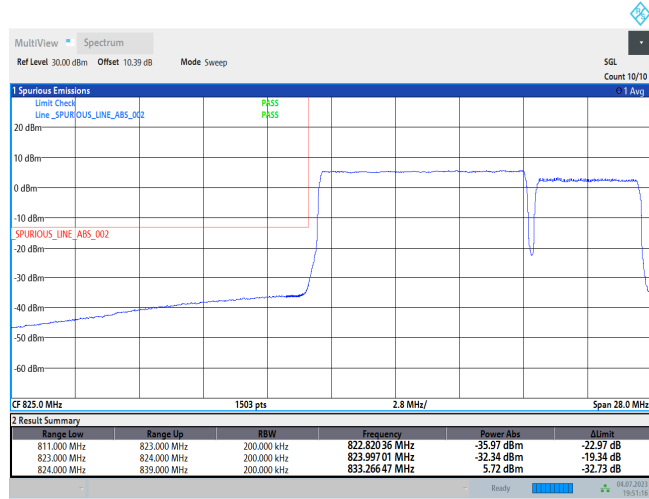


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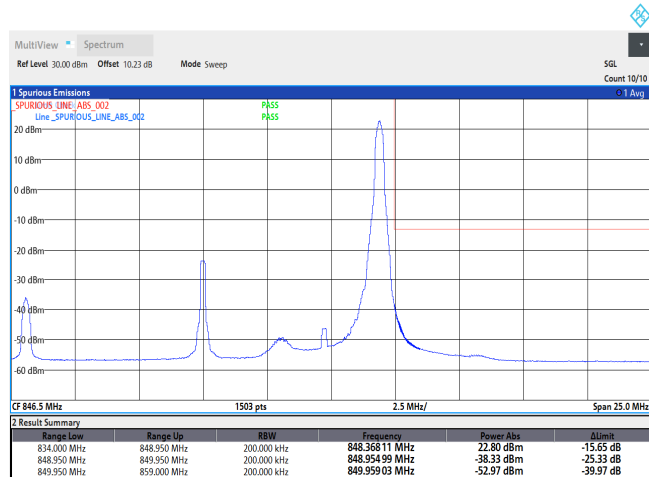
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5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



19:51:17 04.07.2023

5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-0RB#0-1RB#24



20:00:51 04.07.2023



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5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



20:01:48 04.07.2023

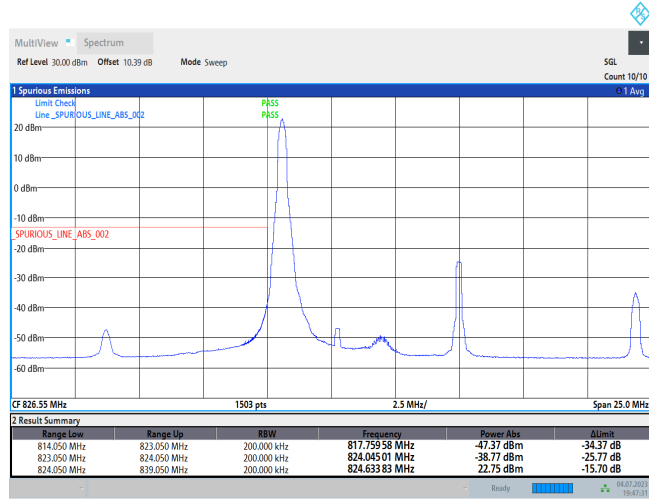


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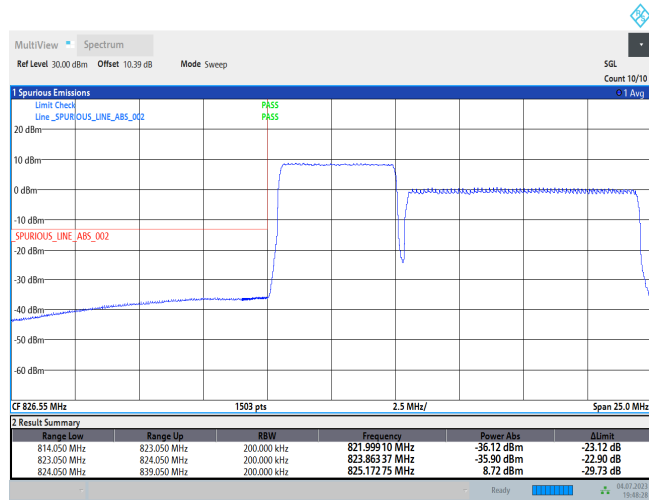
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5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



19:47:32 04.07.2023

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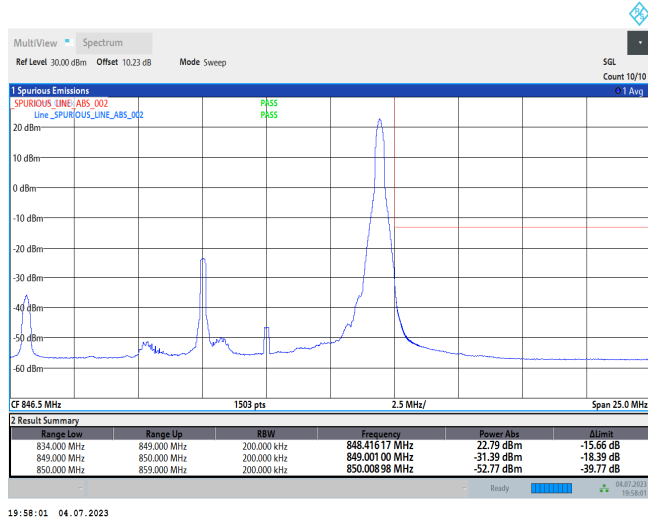
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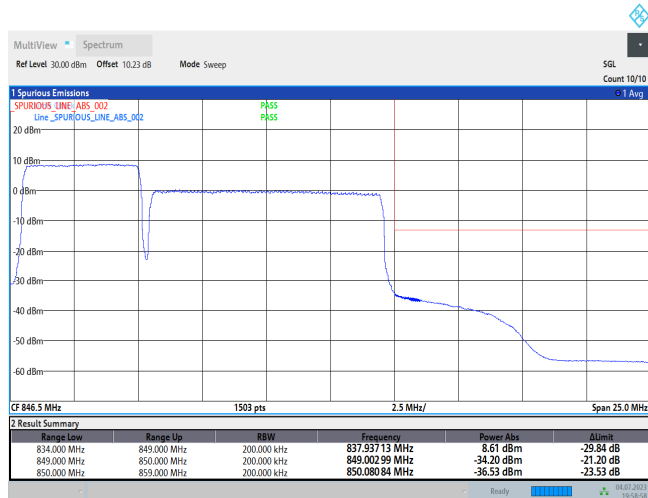
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5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



19:58:01 04.07.2023

5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



19:58:58 04.07.2023

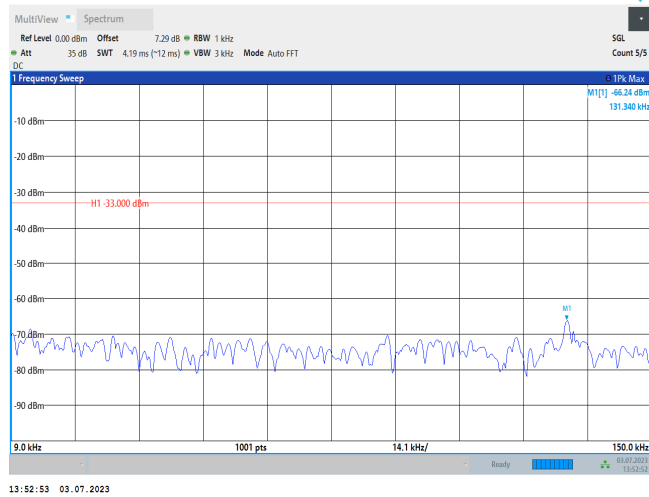


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Conducted Spurious Emission

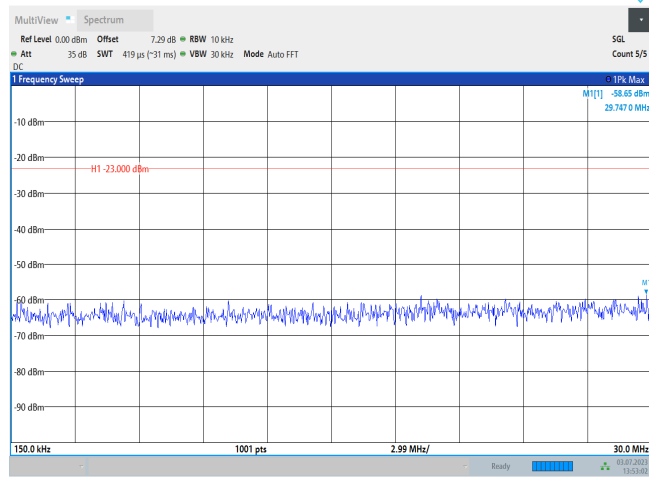
Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.009~0.15MHz



13:52:53 03.07.2023

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.15~30MHz

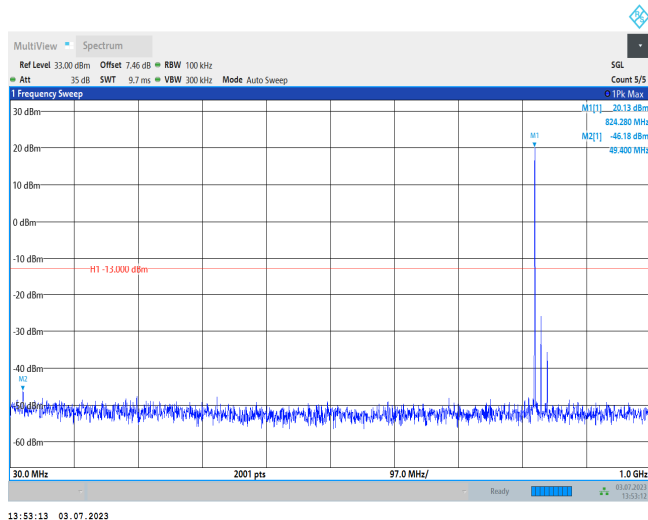


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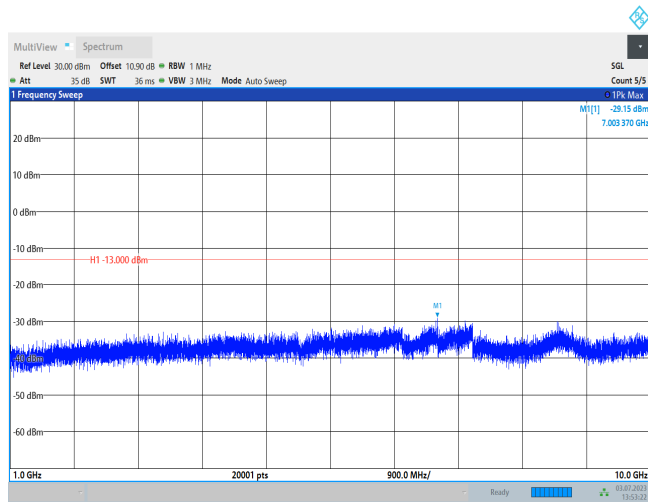
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5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-30~1000MHz



13:53:13 03.07.2023

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-1000~10000MHz



13:53:22 03.07.2023

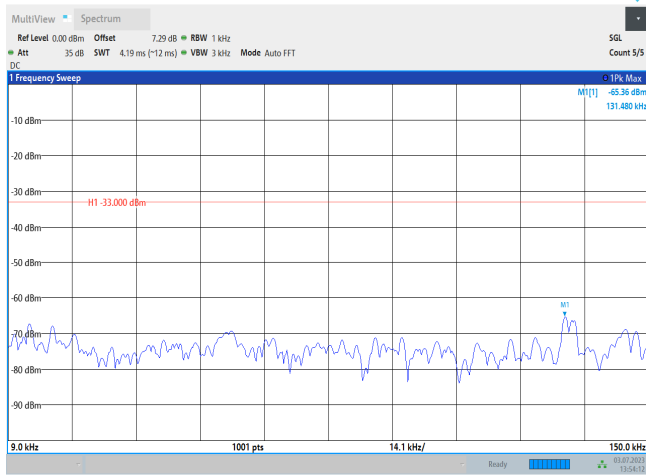


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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.009~0.15MHz



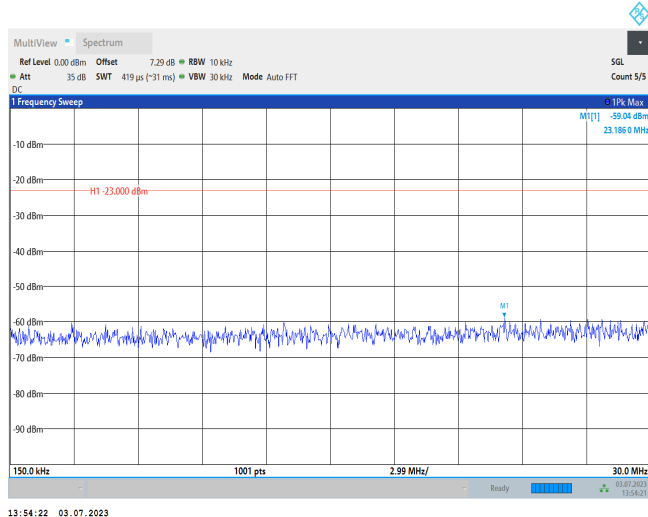
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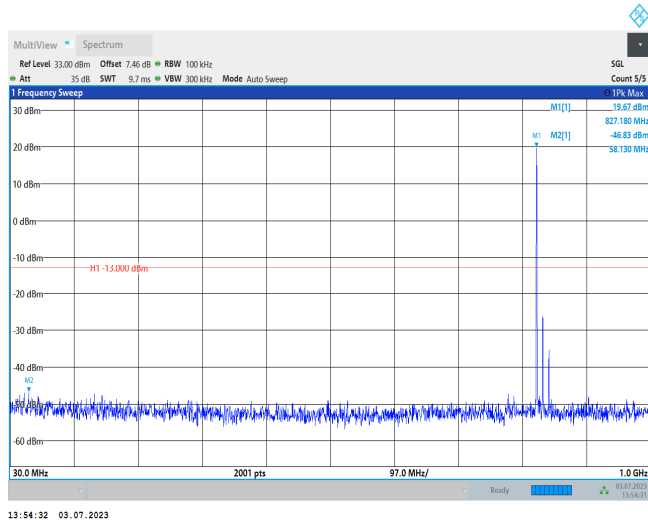
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.15~30MHz



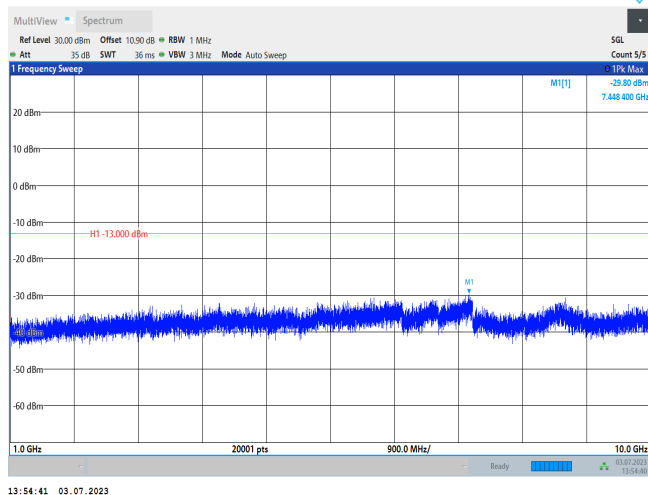
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 Wireless Laboratory

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 Rev.: 01
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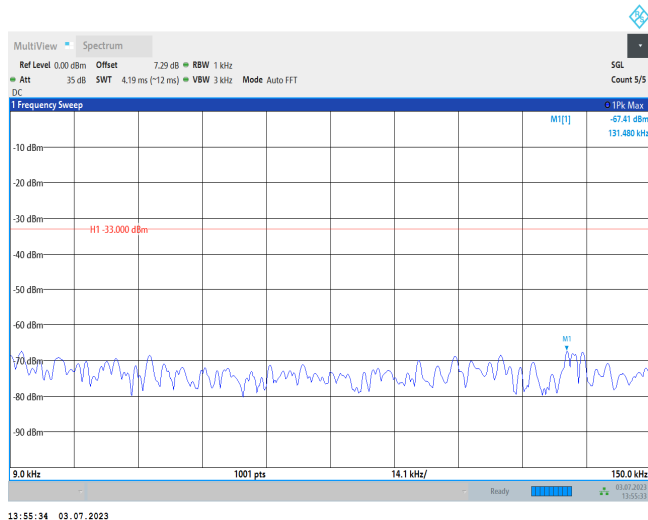
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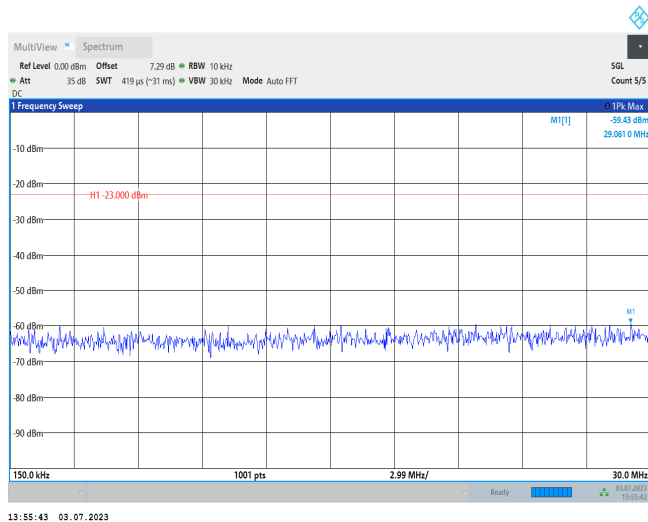
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.15~30MHz

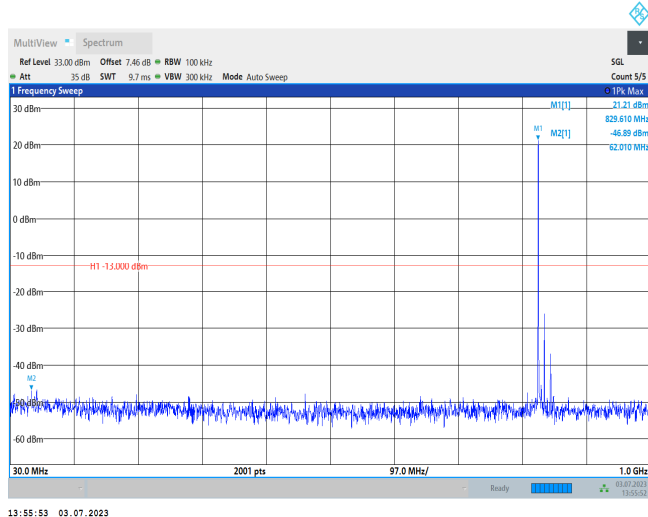


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 Rev.: 01
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



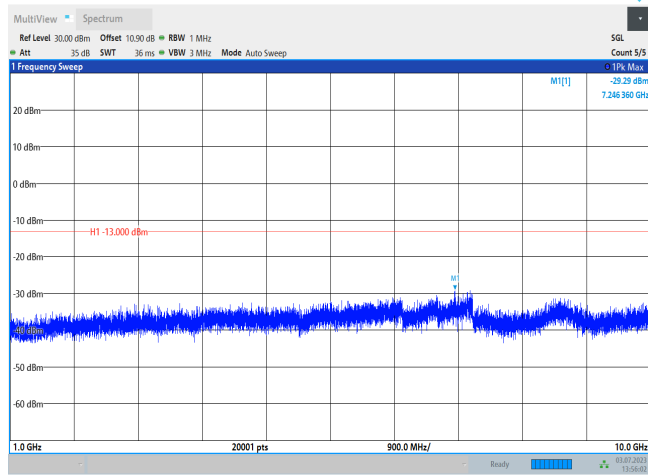
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-1000~10000MHz



13:56:02 03.07.2023



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Field Strength of Spurious Radiation

Test Band = LTE CA_5B_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1767.9107	49.98	-47.36	25.14	-67.50	-13.00	54.50	150	20	Horizontal
2	3045.6018	48.56	-45.77	28.78	-63.69	-13.00	50.69	211	358	Horizontal
3	3993.8798	48.89	-43.98	29.81	-60.54	-13.00	47.54	114	131	Horizontal
4	5582.9833	47.72	-41.50	32.46	-56.58	-13.00	43.58	324	188	Horizontal
5	7370.4548	45.83	-38.48	36.58	-51.33	-13.00	38.33	150	153	Horizontal
6	9106.4443	44.05	-35.50	37.01	-49.70	-13.00	36.70	112	148	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1616.7047	49.10	-47.58	25.23	-68.51	-13.00	55.51	214	345	Vertical
2	2110.2844	48.41	-46.88	26.74	-66.99	-13.00	53.99	364	243	Vertical
3	2811.5925	48.31	-46.06	28.30	-64.71	-13.00	51.71	221	238	Vertical
4	3711.9885	48.74	-44.56	29.37	-61.71	-13.00	48.71	197	216	Vertical
5	5147.0059	48.12	-42.59	31.78	-57.95	-13.00	44.95	357	181	Vertical
6	7851.074	45.00	-37.69	36.79	-51.16	-13.00	38.16	264	256	Vertical



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Test Band = LTE CA_5B_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1806.7923	48.84	-47.31	25.43	-68.30	-13.00	55.30	244	212	Horizontal
2	2436.0974	49.31	-46.64	27.54	-65.05	-13.00	52.05	263	118	Horizontal
3	3517.9407	48.15	-45.28	29.06	-63.33	-13.00	50.33	325	51	Horizontal
4	5586.9435	47.72	-41.47	32.50	-56.51	-13.00	43.51	178	230	Horizontal
5	7863.3145	45.13	-37.64	36.72	-51.05	-13.00	38.05	259	345	Horizontal
6	9620.1848	43.54	-35.93	37.92	-49.73	-13.00	36.73	321	283	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1661.7065	48.92	-47.50	25.41	-68.43	-13.00	55.43	226	257	Vertical
2	2083.2833	48.60	-46.88	26.63	-66.91	-13.00	53.91	325	6	Vertical
3	3074.403	48.18	-45.84	28.85	-64.07	-13.00	51.07	217	226	Vertical
4	5077.8831	48.49	-42.74	31.54	-57.97	-13.00	44.97	118	163	Vertical
5	7386.6555	45.77	-38.41	36.65	-51.25	-13.00	38.25	256	293	Vertical
6	9202.5681	44.03	-36.22	37.50	-49.95	-13.00	36.95	221	159	Vertical



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Test Band = LTE CA_5B_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1779.0712	54.22	-47.35	25.23	-63.16	-13.00	54.66	244	257	Horizontal
2	2112.0845	48.88	-46.89	26.73	-66.54	-13.00	53.54	189	51	Horizontal
3	3523.7009	47.84	-45.23	29.05	-63.60	-13.00	50.60	225	253	Horizontal
4	3899.916	48.82	-44.41	29.70	-61.15	-13.00	48.15	369	262	Horizontal
5	5602.7841	47.52	-41.39	32.59	-56.54	-13.00	43.54	210	37	Horizontal
6	8085.0834	44.61	-37.17	36.50	-51.32	-13.00	38.32	141	212	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1394.2158	49.32	-47.42	24.92	-68.44	-13.00	55.44	241	24	Vertical
2	1765.7506	49.86	-47.36	25.13	-67.63	-13.00	54.63	364	291	Vertical
3	2436.4575	49.25	-46.64	27.55	-65.10	-13.00	52.10	119	72	Vertical
4	3674.907	48.83	-44.48	29.30	-61.61	-13.00	48.61	247	117	Vertical
5	4820.1128	48.29	-42.90	30.72	-59.15	-13.00	46.15	224	291	Vertical
6	7425.177	45.77	-38.36	36.75	-51.10	-13.00	38.10	368	175	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VH	NT	6.00	0.007215	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VL	NT	-2.70	-0.003247	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VN	NT	-0.20	-0.000241	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-30	3.80	0.004570	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-20	5.00	0.006013	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-10	5.00	0.006013	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	0	6.80	0.008177	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	10	9.20	0.011063	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	20	6.10	0.007335	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	30	2.40	0.002886	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	40	0.90	0.001082	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	50	3.40	0.004089	±2.5	PASS

---End of Attachment---



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