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Appendix B.20

LTE CA_7C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	1RB#0-0RB#0	21.15	22.41	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	19.39	20.65	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	21.12	22.38	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	19.6	20.86	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	21.35	22.61	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	19.57	20.83	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	20.35	21.61	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	18.59	19.85	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	20.32	21.58	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	18.66	19.92	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	20.48	21.74	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	18.66	19.92	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	19.41	20.67	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	18.63	19.89	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	19.41	20.67	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	18.49	19.75	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	19.61	20.87	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	18.66	19.92	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	1RB#0-0RB#0	16.41	17.67	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	50RB#0-100RB#0	16.43	17.69	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	1RB#0-0RB#0	16.23	17.49	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	16.78	18.04	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	1RB#0-0RB#0	16.55	17.81	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	50RB#0-100RB#0	16.64	17.9	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	21.54	22.8	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	19.46	20.72	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	21.57	22.83	33	PASS



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7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	19.62	20.88	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	21.76	23.02	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	19.68	20.94	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	20.93	22.19	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	18.45	19.71	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	21.07	22.33	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	18.71	19.97	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	21.06	22.32	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	18.71	19.97	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	19.89	21.15	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	18.48	19.74	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	20.07	21.33	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	18.81	20.07	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	20.26	21.52	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	18.74	20	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	1RB#0-0RB#0	16.82	18.08	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	75RB#0-50RB#0	16.51	17.77	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	1RB#0-0RB#0	16.77	18.03	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	16.61	17.87	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	1RB#0-0RB#0	16.9	18.16	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	75RB#0-50RB#0	16.75	18.01	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	21.41	22.67	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	19.42	20.68	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	21.46	22.72	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	19.52	20.78	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	21.57	22.83	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	19.63	20.89	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	20.78	22.04	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	18.52	19.78	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	20.62	21.88	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	18.54	19.8	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	20.69	21.95	33	PASS



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7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	18.78	20.04	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	19.63	20.89	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	18.53	19.79	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	19.57	20.83	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	18.65	19.91	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	19.91	21.17	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	18.69	19.95	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	1RB#0-0RB#0	16.6	17.86	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	75RB#0-75RB#0	16.52	17.78	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	1RB#0-0RB#0	16.81	18.07	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	16.65	17.91	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	1RB#0-0RB#0	16.66	17.92	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	75RB#0-75RB#0	16.71	17.97	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	21.31	22.57	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	19.47	20.73	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	21.32	22.58	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	19.7	20.96	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	21.53	22.79	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	19.75	21.01	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	20.68	21.94	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	18.48	19.74	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	20.72	21.98	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	18.55	19.81	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	20.74	22	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	18.71	19.97	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	19.74	21	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	18.54	19.8	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	19.65	20.91	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	18.56	19.82	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	19.67	20.93	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	18.67	19.93	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	1RB#0-0RB#0	16.68	17.94	33	PASS



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7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	75RB#0-100RB#0	16.52	17.78	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	1RB#0-0RB#0	16.57	17.83	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	16.75	18.01	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	1RB#0-0RB#0	16.73	17.99	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	75RB#0-100RB#0	16.69	17.95	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	19.5	20.76	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	21.13	22.39	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	19.55	20.81	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	21.1	22.36	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	19.59	20.85	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	21.29	22.55	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	18.42	19.68	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	20.46	21.72	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	18.58	19.84	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	20.56	21.82	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	18.69	19.95	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	20.58	21.84	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	18.6	19.86	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	19.45	20.71	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	18.59	19.85	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	19.48	20.74	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	18.74	20	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	19.54	20.8	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	100RB#0-50RB#0	16.6	17.86	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	1RB#0-0RB#0	16.51	17.77	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	16.61	17.87	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	1RB#0-0RB#0	16.34	17.6	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	100RB#0-50RB#0	16.59	17.85	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	1RB#0-0RB#0	16.59	17.85	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	19.5	20.76	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	21.2	22.46	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	19.53	20.79	33	PASS



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7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	21.17	22.43	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	19.48	20.74	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	21.26	22.52	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	18.26	19.52	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	20.41	21.67	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	18.55	19.81	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	20.46	21.72	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	18.83	20.09	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	20.57	21.83	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	18.55	19.81	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	19.58	20.84	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	18.68	19.94	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	19.4	20.66	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	18.68	19.94	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	19.59	20.85	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	100RB#0-75RB#0	16.46	17.72	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	1RB#0-0RB#0	16.35	17.61	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	16.62	17.88	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	1RB#0-0RB#0	16.45	17.71	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	100RB#0-75RB#0	16.8	18.06	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	1RB#0-0RB#0	16.53	17.79	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	19.4	20.66	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	21.18	22.44	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	19.56	20.82	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	21.16	22.42	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	19.59	20.85	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	21.18	22.44	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	18.5	19.76	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	20.47	21.73	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	18.62	19.88	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	20.47	21.73	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	18.71	19.97	33	PASS



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7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	20.51	21.77	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	18.34	19.6	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	19.55	20.81	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	18.5	19.76	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	19.5	20.76	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	18.76	20.02	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	19.56	20.82	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	16.36	17.62	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	1RB#0-0RB#0	16.44	17.7	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	16.34	17.6	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	1RB#0-0RB#0	16.41	17.67	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	16.53	17.79	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	1RB#0-0RB#0	16.33	17.59	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	6.08	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	5.56	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	5.66	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	6.62	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	6.62	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	6.66	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	6.98	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	6.86	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	7.14	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	7.20	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	6.80	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	6.90	13	PASS



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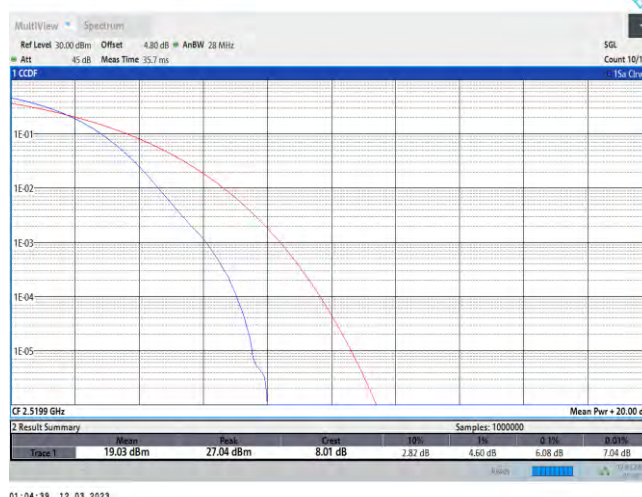
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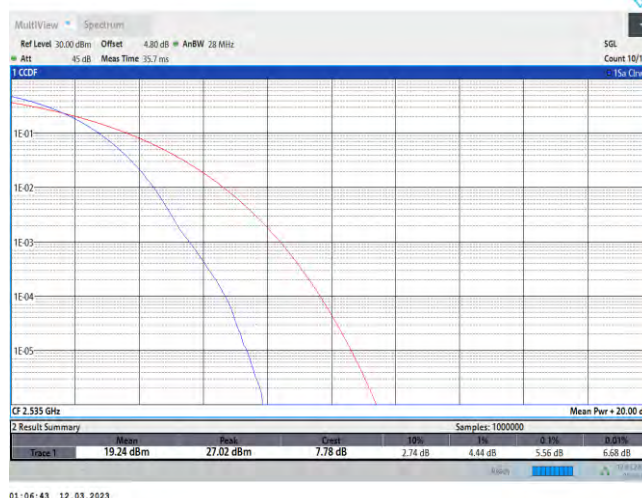
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Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



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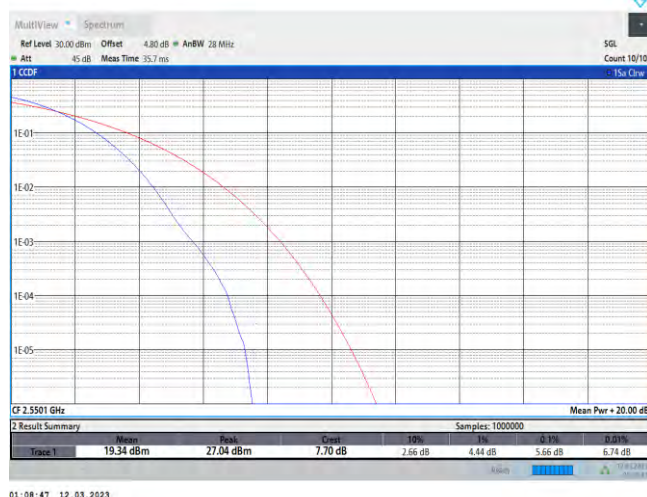
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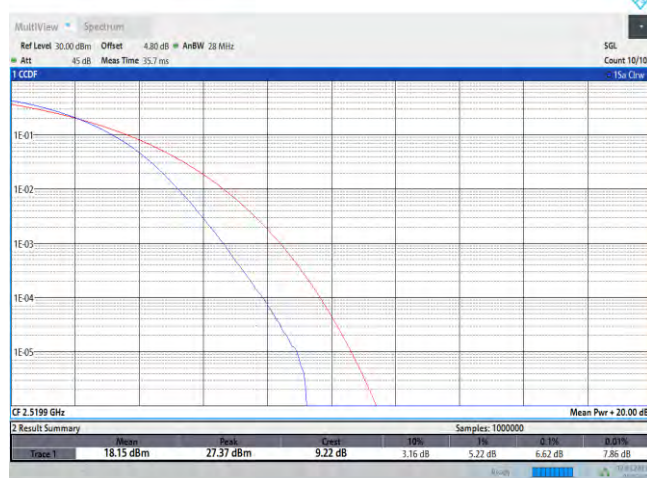
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7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



01:05:09 12.03.2023



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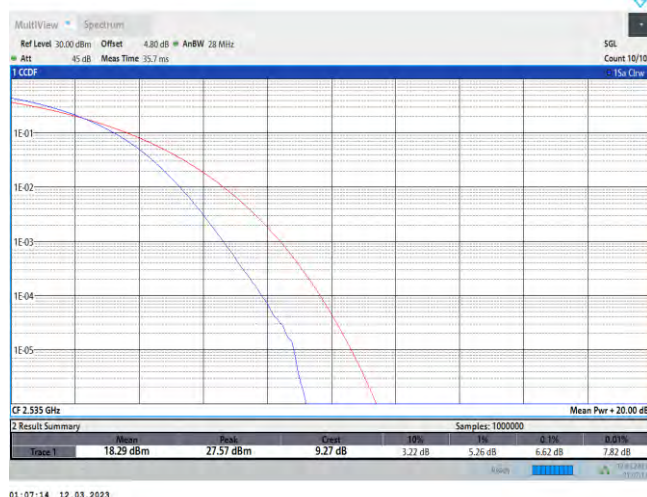
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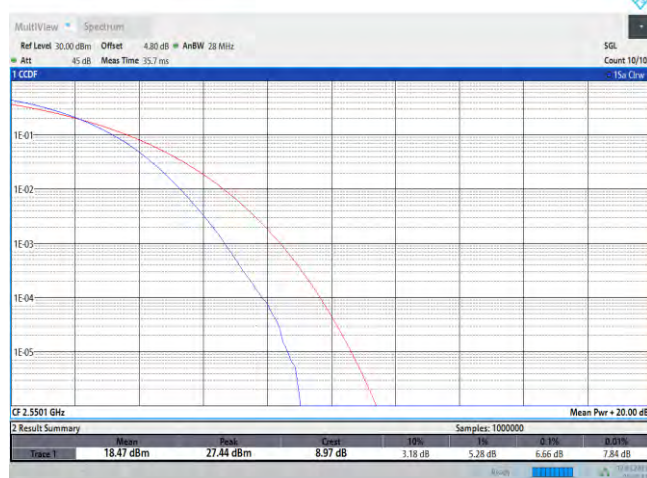
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



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7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



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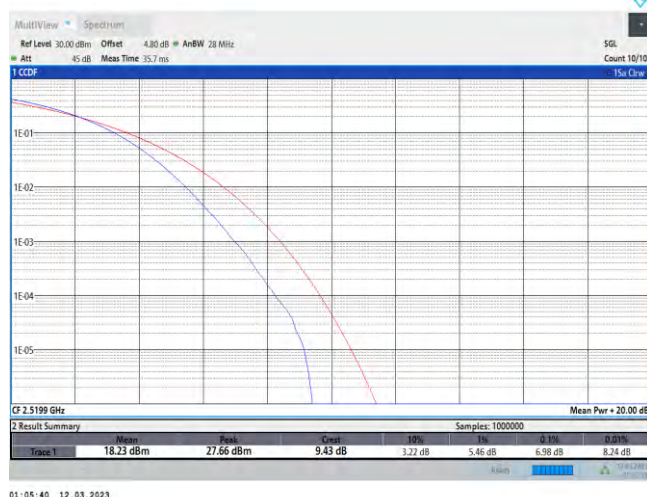
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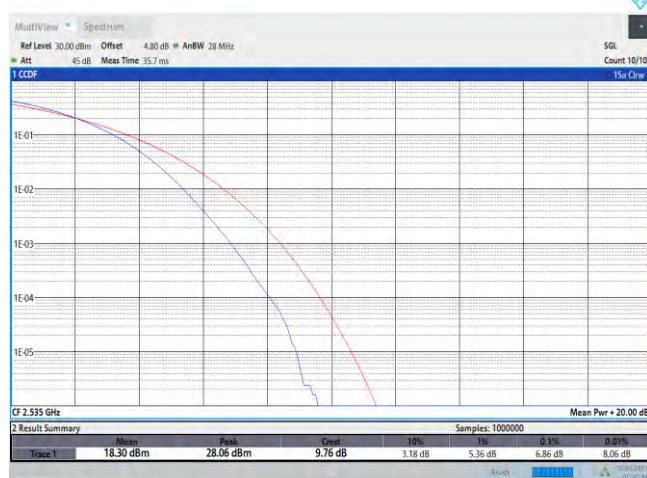
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7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



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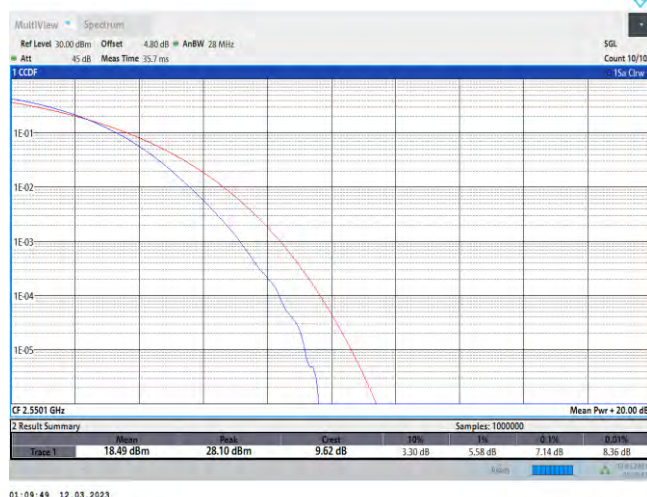
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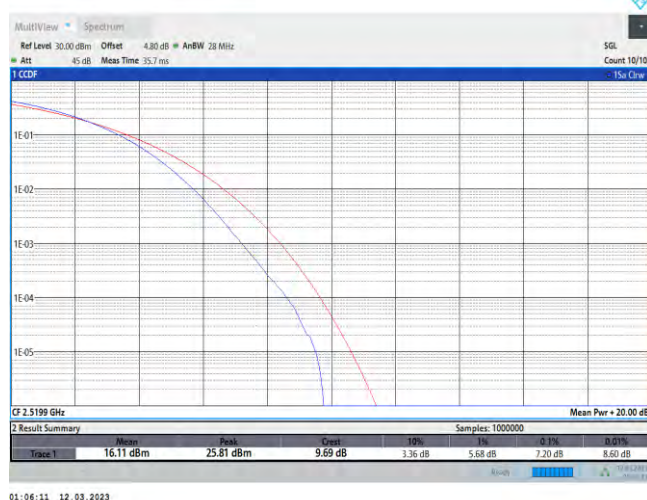
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7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



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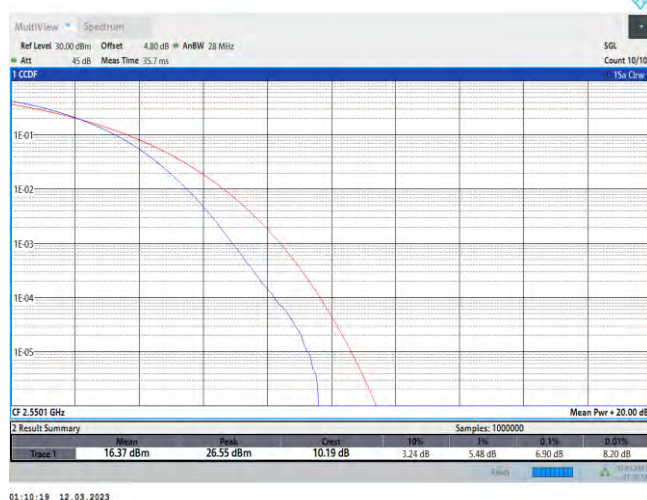
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7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	50RB#0-50RB#0	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	50RB#0-50RB#0	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	50RB#0-50RB#0	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	50RB#0-50RB#0	PASS



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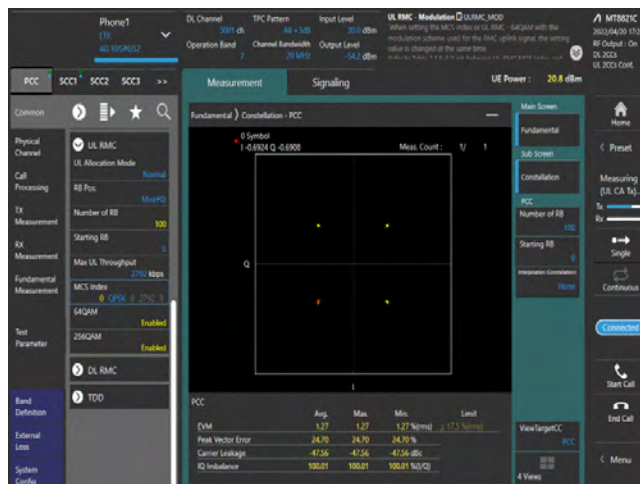
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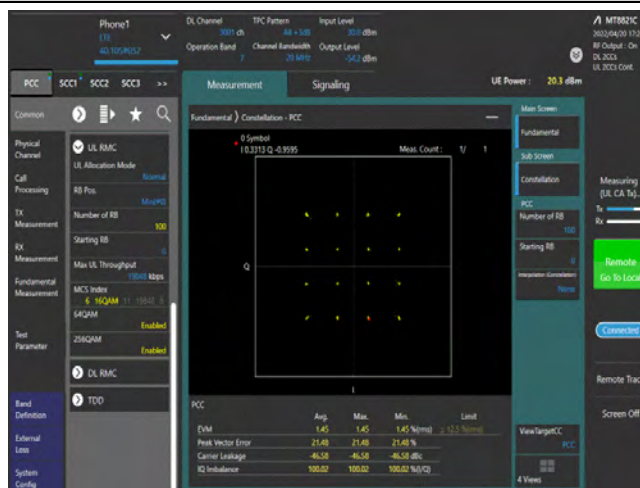
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-16QAM-16QAM -21001-21199-100RB#0-100RB#0



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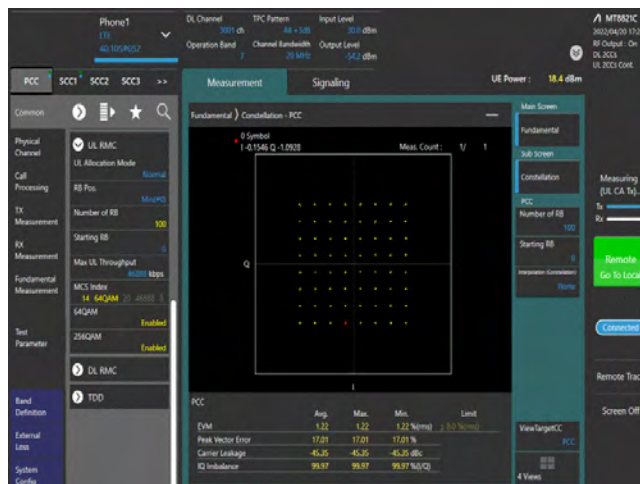
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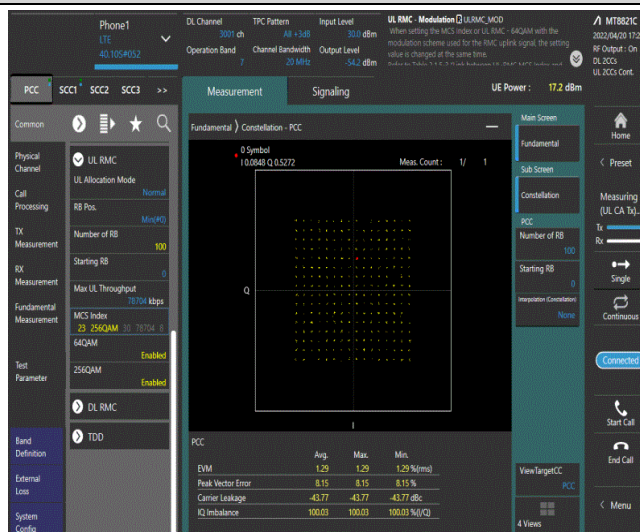
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7-7-20MHz-20MHz-64QAM-64QAM-221001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	27.618	29.04	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.536	29.10	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.542	29.10	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.648	29.16	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.589	29.16	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.587	29.10	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.598	29.16	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.495	29.04	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	27.502	29.16	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	50RB#0-100RB#0	27.618	29.04	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	27.547	29.10	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	50RB#0-100RB#0	27.506	29.10	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.114	24.80	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.079	24.70	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.07	24.75	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.09	24.60	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.076	24.55	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.047	24.55	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	23.078	24.60	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.066	24.65	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	23.017	24.60	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	75RB#0-50RB#0	23.105	24.55	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	23.082	24.55	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	75RB#0-50RB#0	23.049	24.55	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	28.232	30.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.212	30.12	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.21	29.94	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	28.222	29.82	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.19	30.48	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.155	29.88	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	28.201	30.00	PASS



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7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.234	30.06	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	28.151	29.94	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	75RB#0-75RB#0	28.22	29.76	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	28.221	29.82	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	75RB#0-75RB#0	28.199	29.88	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	32.429	34.16	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.41	34.09	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.44	34.30	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	32.489	34.09	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.493	34.16	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.477	34.16	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	32.423	34.16	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.398	34.23	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	32.379	34.16	PASS
7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	75RB#0-100RB#0	32.438	34.23	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	32.437	34.23	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	75RB#0-100RB#0	32.394	34.16	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	27.695	29.34	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.676	29.46	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.68	29.28	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	27.649	29.34	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.697	29.28	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.664	29.34	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	27.638	29.28	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.674	29.34	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	27.597	29.28	PASS
7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	100RB#0-50RB#0	27.635	29.22	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	27.628	29.46	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	100RB#0-50RB#0	27.641	29.34	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	32.486	34.30	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.519	34.16	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.542	34.30	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	32.489	34.23	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.544	34.30	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.477	34.30	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	32.443	34.44	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.492	34.23	PASS



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7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	32.472	34.37	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	100RB#0-75RB#0	32.478	34.23	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	32.52	34.16	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	100RB#0-75RB#0	32.482	34.30	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	37.574	40.16	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.569	40.16	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.583	40.24	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	37.574	40.24	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.603	40.24	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.596	40.08	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	37.479	40.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.513	40.08	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	37.501	40.08	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	37.578	40.08	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	37.538	40.08	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	37.562	40.16	PASS



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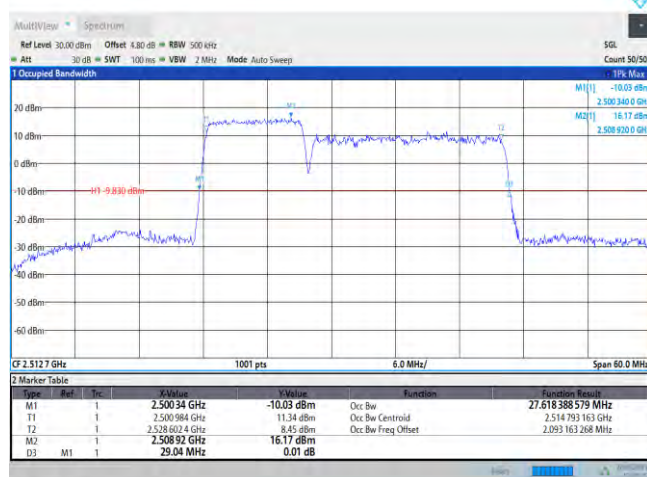
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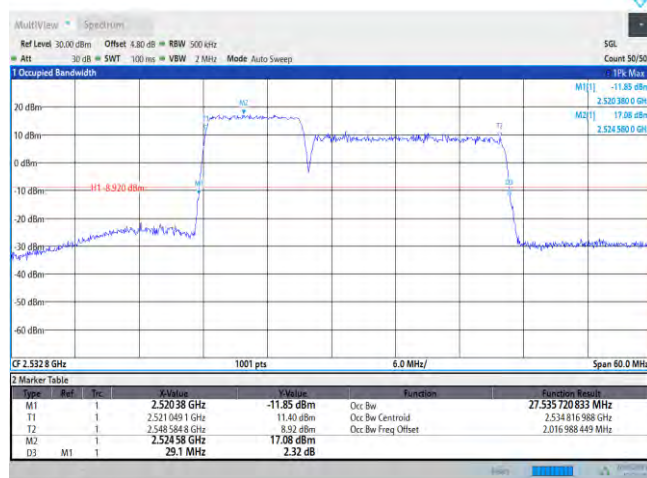
Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0



13:49:16 20.03.2023

7-7-10MHz-20MHz-QPSK-QPSK-21006-21150-50RB#0-100RB#0



13:51:25 20.03.2023



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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



13:53:33 20.03.2023

7-7-10MHz-20MHz-16QAM-16QAM-20805-20949-50RB#0-100RB#0



13:49:48 20.03.2023



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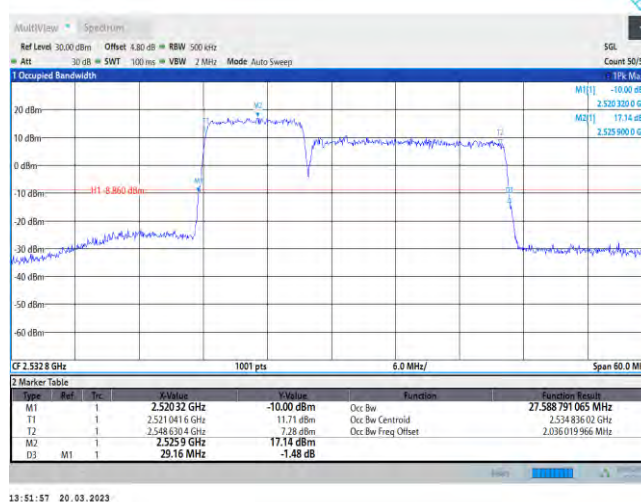
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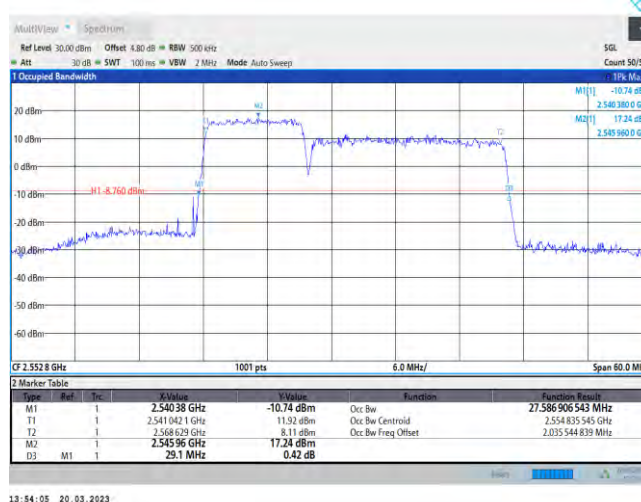
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7-7-10MHz-20MHz-16QAM-16QAM-21006-21150-50RB#0-100RB#0



7-7-10MHz-20MHz-16QAM-16QAM-21206-21350-50RB#0-100RB#0



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7-7-10MHz-20MHz-64QAM-64QAM-20805-20949-50RB#0-100RB#0



13:50:20 20.03.2023

7-7-10MHz-20MHz-64QAM-64QAM-21006-21150-50RB#0-100RB#0



13:52:29 20.03.2023



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13:54:37 20.03.2023

7-7-10MHz-20MHz-256QAM-256QAM-20805-20949-50RB#0-100RB#0



13:50:52 20.03.2023



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7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



14:15:54 20.03.2023

7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0



14:18:03 20.03.2023



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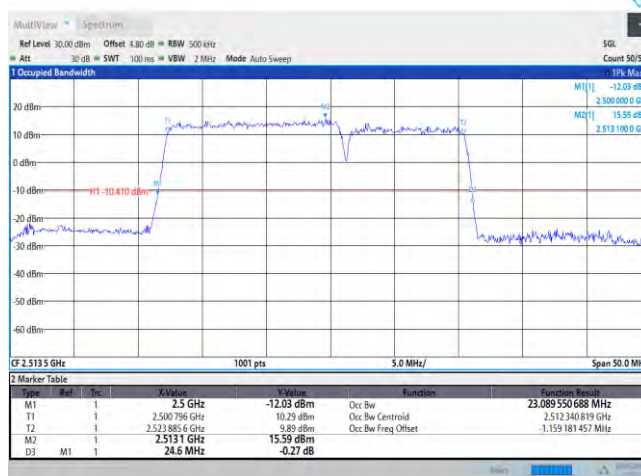
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



14:20:11 20.03.2023

7-7-15MHz-10MHz-16QAM-16QAM-20825-20945-75RB#0-50RB#0



14:16:26 20.03.2023



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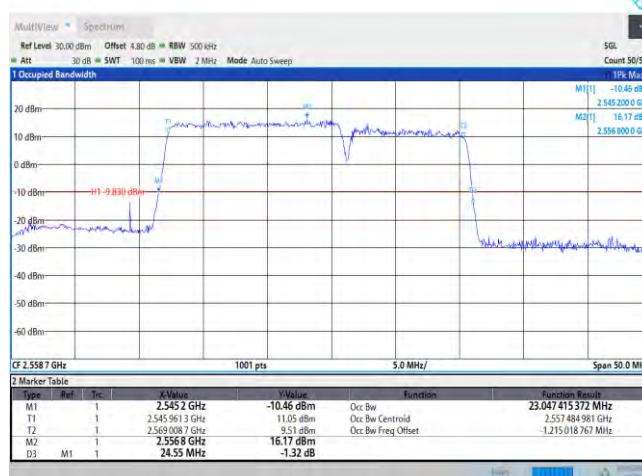
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7-7-15MHz-10MHz-16QAM-16QAM-21051-21171-75RB#0-50RB#0



14:18:35 20.03.2023

7-7-15MHz-10MHz-16QAM-16QAM-21277-21397-75RB#0-50RB#0



14:20:43 20.03.2023



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7-7-15MHz-10MHz-64QAM-64QAM-20825-20945-75RB#0-50RB#0



14:16:58 20.03.2023

7-7-15MHz-10MHz-64QAM-64QAM-21051-21171-75RB#0-50RB#0



14:19:06 20.03.2023



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14:21:15 20.03.2023

7-7-15MHz-10MHz-256QAM-256QAM-20825-20945-75RB#0-50RB#0



14:17:30 20.03.2023



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14:19:38 20.03.2023

7-7-15MHz-10MHz-256QAM-256QAM-21277-21397-75RB#0-50RB#0



14:21:47 20.03.2023



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7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0



14:33:40 20.03.2023

7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0



14:35:48 20.03.2023



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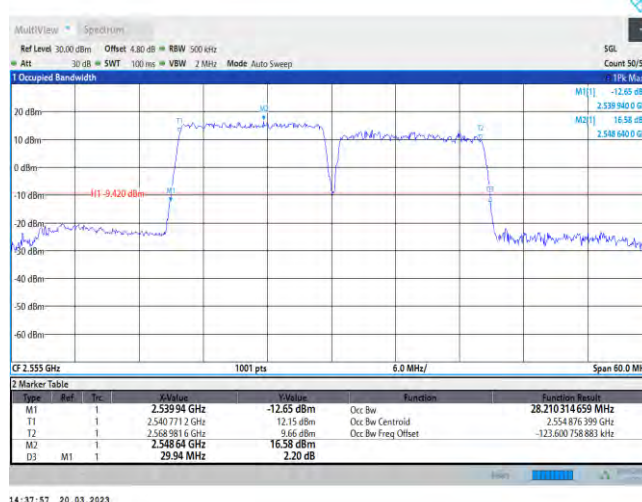
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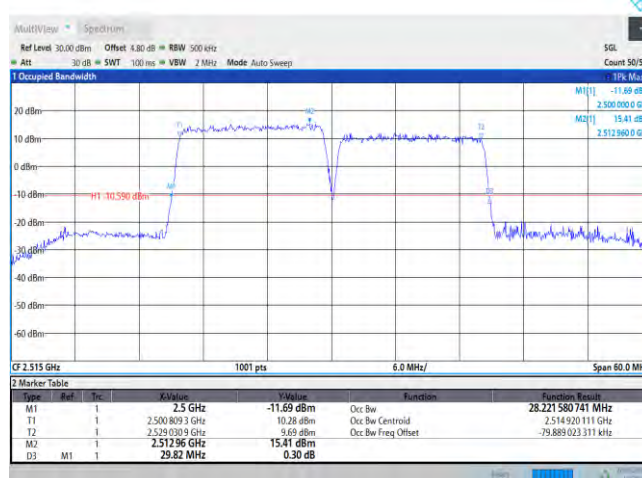
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14:37:57 20.03.2023

7-7-15MHz-15MHz-16QAM-16QAM-20825-20975-75RB#0-75RB#0



14:34:12 20.03.2023



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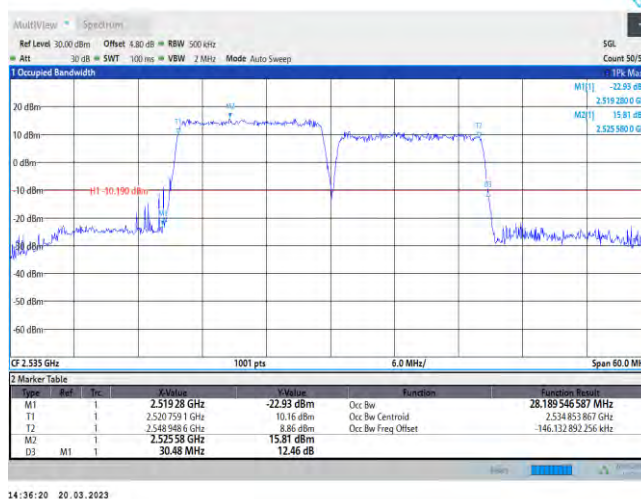
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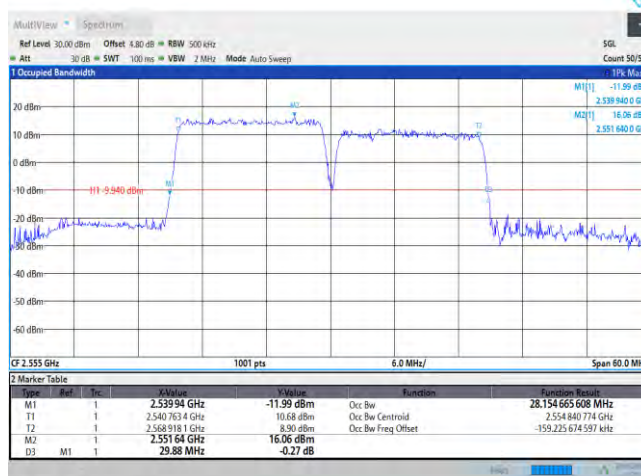
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7-7-15MHz-15MHz-16QAM-16QAM-21025-21175-75RB#0-75RB#0



14:36:20 20.03.2023

7-7-15MHz-15MHz-16QAM-16QAM-21225-21375-75RB#0-75RB#0



14:38:29 20.03.2023



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7-7-15MHz-15MHz-64QAM-64QAM-21025-21175-75RB#0-75RB#0



14:36:53 20.03.2023



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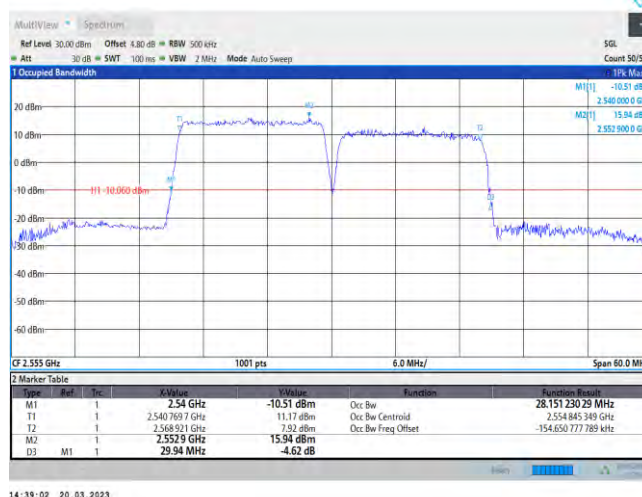
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14:39:02 20.03.2023

7-7-15MHz-15MHz-256QAM-256QAM-20825-20975-75RB#0-75RB#0



14:35:15 20.03.2023



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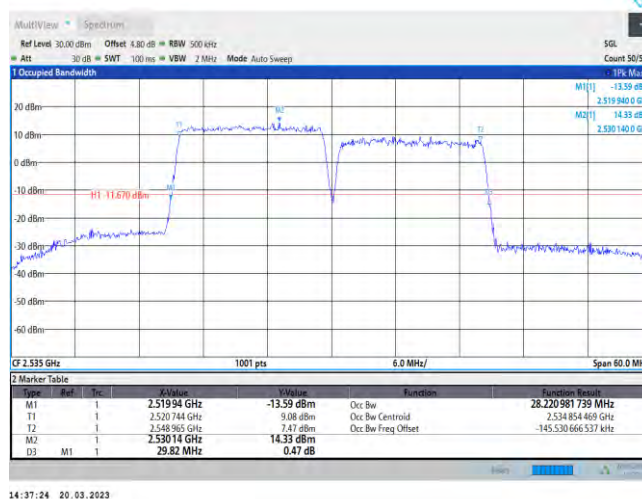
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7-7-15MHz-15MHz-256QAM-256QAM-21225-21375-75RB#0-75RB#0



14:39:33 20.03.2023



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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0



14:48:22 20.03.2023

7-7-15MHz-20MHz-QPSK-QPSK-21003-21174-75RB#0-100RB#0



14:50:31 20.03.2023



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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0



14:52:39 20.03.2023

7-7-15MHz-20MHz-16QAM-16QAM-20828-20999-75RB#0-100RB#0



14:48:54 20.03.2023



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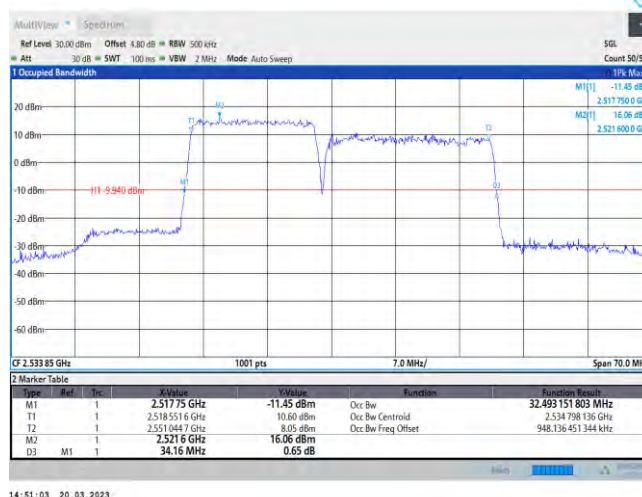
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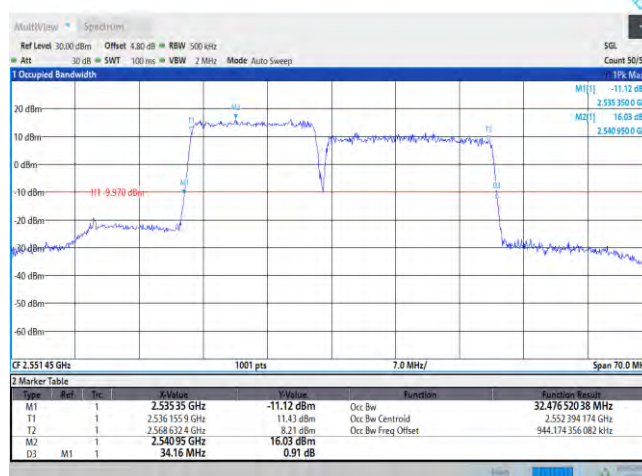
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14:51:03 20.03.2023

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14:53:11 20.03.2023



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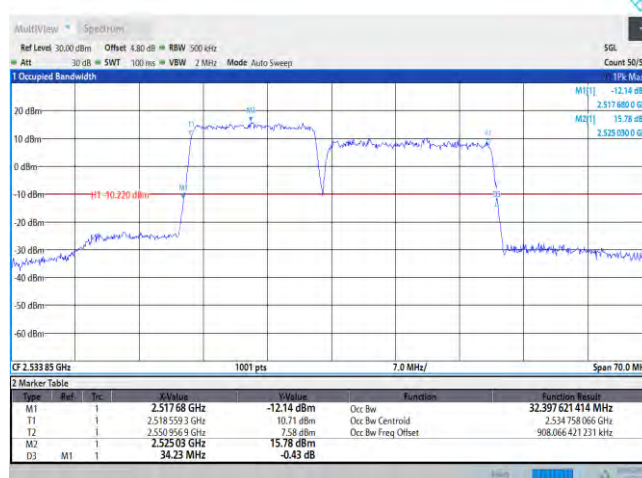
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7-7-15MHz-20MHz-64QAM-64QAM-20828-20999-75RB#0-100RB#0



14:49:26 20.03.2023

7-7-15MHz-20MHz-64QAM-64QAM-21003-21174-75RB#0-100RB#0



14:51:35 20.03.2023



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14:49:58 20.03.2023



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14:52:06 20.03.2023

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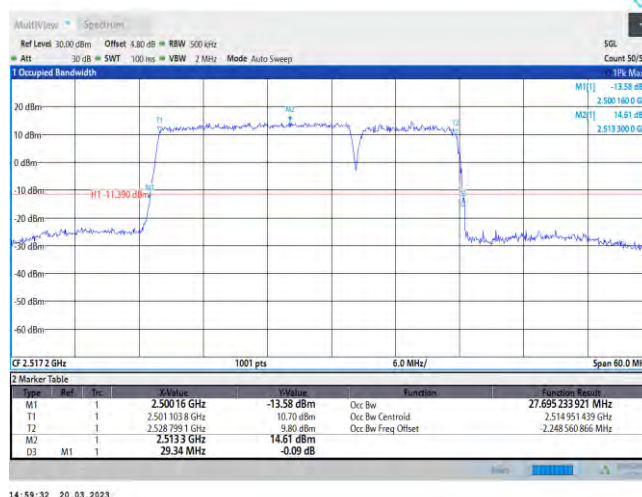
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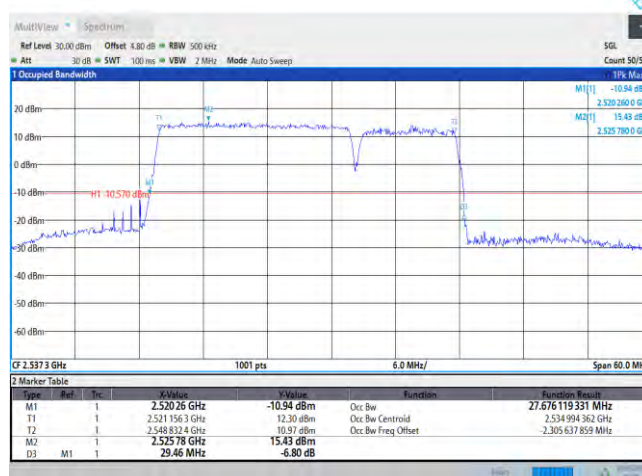
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14:59:32 20.03.2023

7-7-20MHz-10MHz-QPSK-QPSK-21051-21195-100RB#0-50RB#0



15:01:40 20.03.2023



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15:03:48 20.03.2023

7-7-20MHz-10MHz-16QAM-16QAM-20850-20994-100RB#0-50RB#0



15:00:04 20.03.2023



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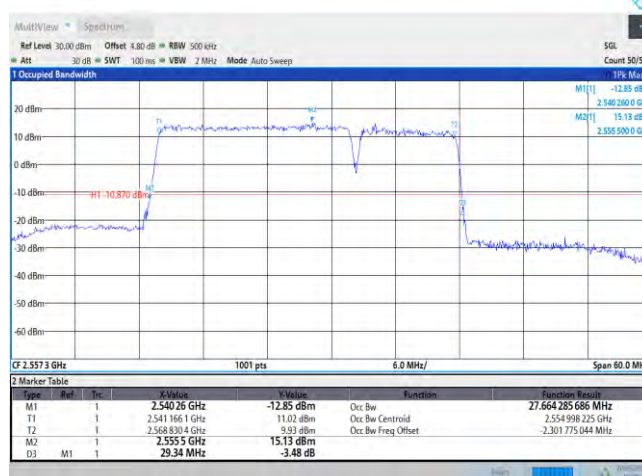
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15:02:12 20.03.2023

7-7-20MHz-10MHz-16QAM-16QAM-21251-21395-100RB#0-50RB#0



15:04:20 20.03.2023



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15:00:36 20.03.2023

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15:02:44 20.03.2023



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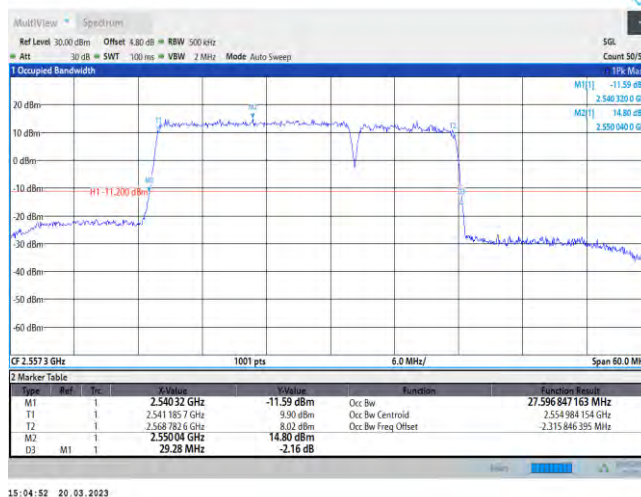
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15:04:52 20.03.2023

7-7-20MHz-10MHz-256QAM-256QAM-20850-20994-100RB#0-50RB#0



15:01:07 20.03.2023



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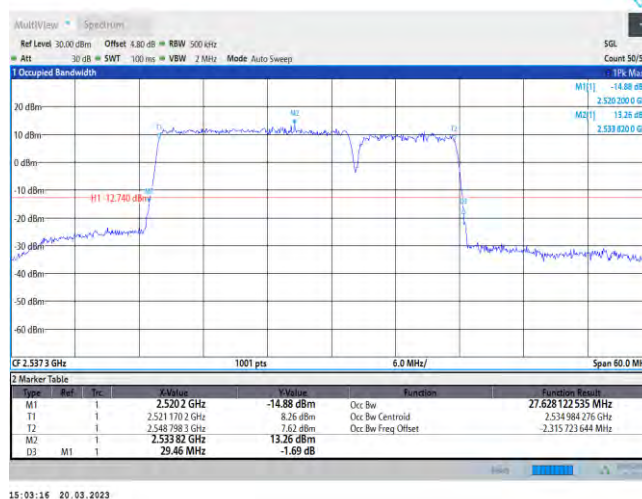
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15:03:16 20.03.2023

7-7-20MHz-10MHz-256QAM-256QAM-21251-21395-100RB#0-50RB#0



15:05:24 20.03.2023



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15:14:03 20.03.2023

7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



15:16:11 20.03.2023



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15:18:19 20.03.2023

7-7-20MHz-15MHz-16QAM-16QAM-20850-21021-100RB#0-75RB#0



15:14:34 20.03.2023



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15:16:43 20.03.2023

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15:18:51 20.03.2023



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15:15:06 20.03.2023

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15:17:15 20.03.2023



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15:15:38 20.03.2023



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15:19:55 20.03.2023



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15:28:06 20.03.2023



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7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



15:26:18 20.03.2023



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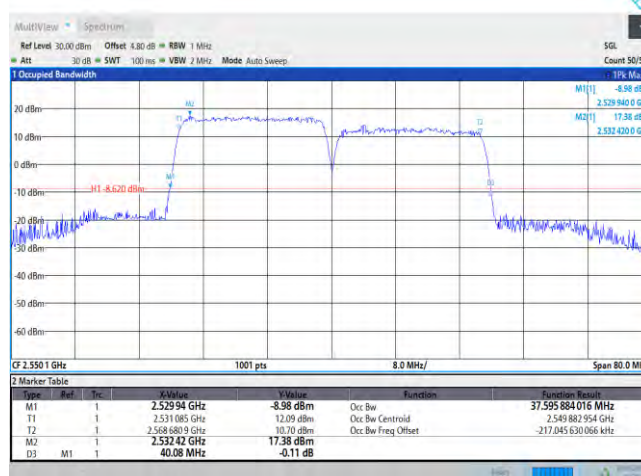
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



15:28:38 20.03.2023

7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



15:30:47 20.03.2023



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7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



15:27:01 20.03.2023

7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



15:29:10 20.03.2023



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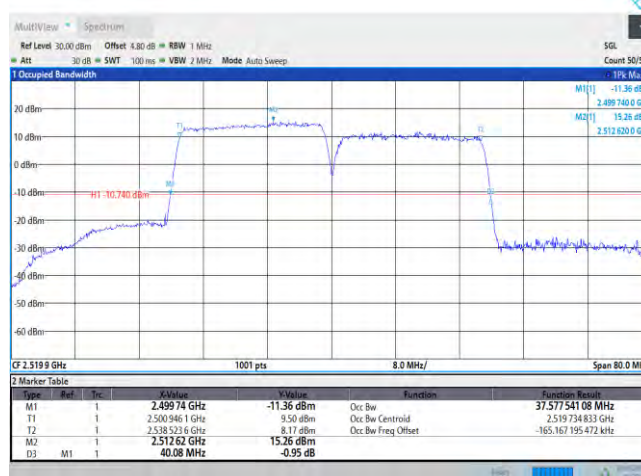
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7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



15:31:19 20.03.2023

7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



15:27:33 20.03.2023



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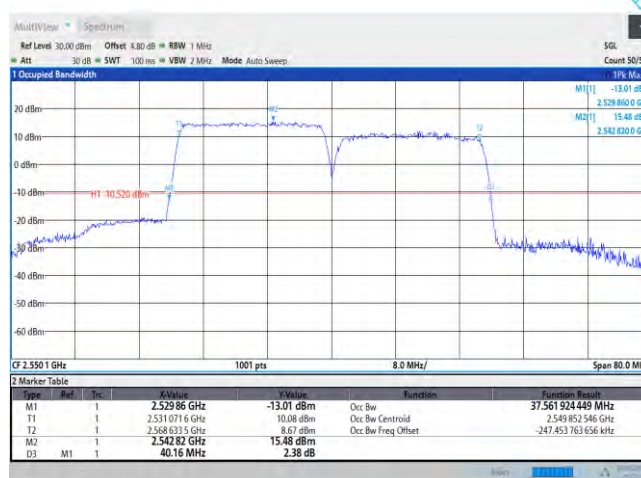
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7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



15:29:42 20.03.2023

7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



15:31:51 20.03.2023



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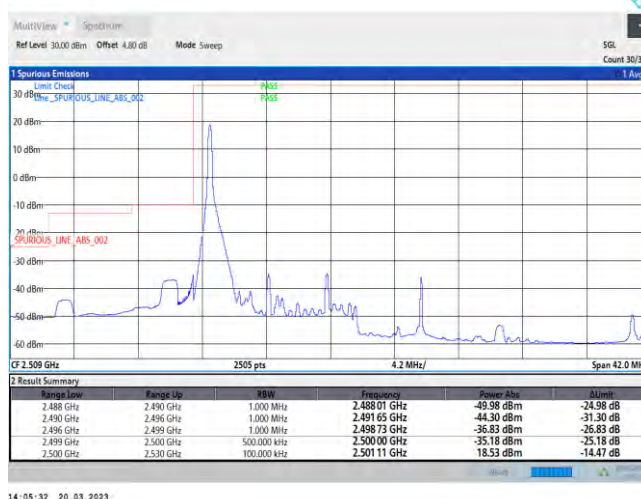
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Band Edge

Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



14:05:32 20.03.2023

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0



14:08:29 20.03.2023



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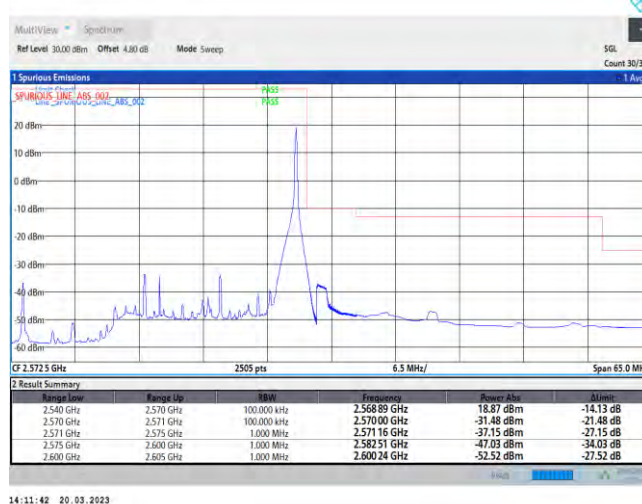
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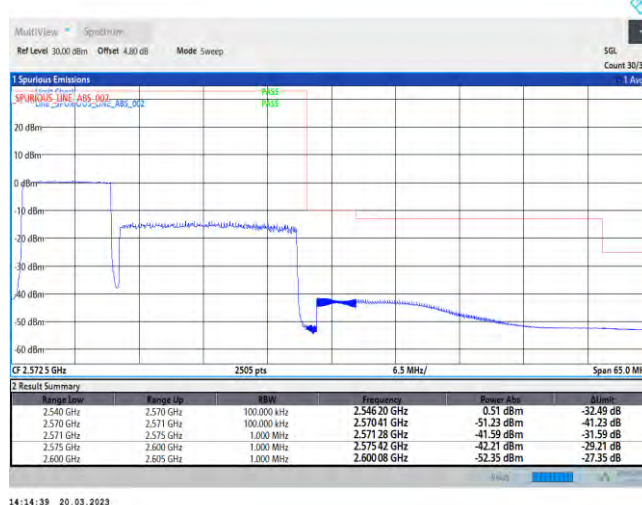
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



14:11:42 20.03.2023

7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



14:14:39 20.03.2023



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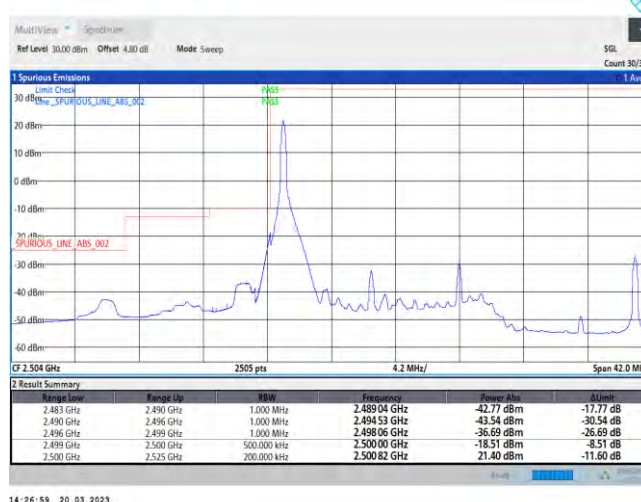
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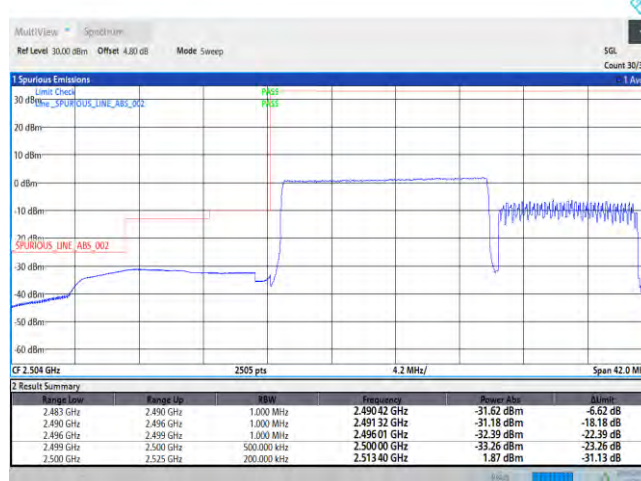
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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



14:26:59 20.03.2023

7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



14:28:41 20.03.2023



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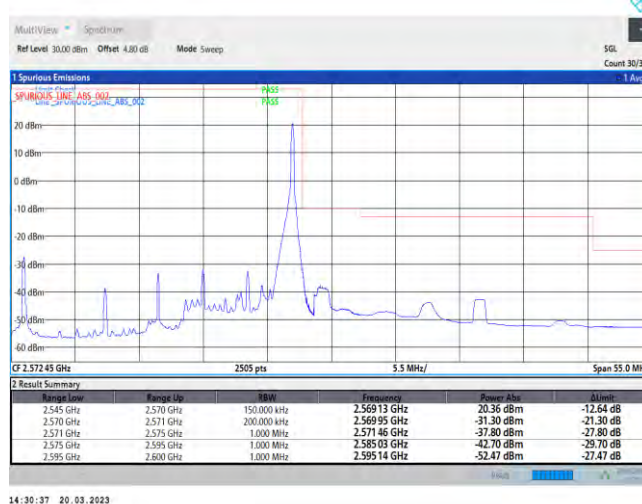
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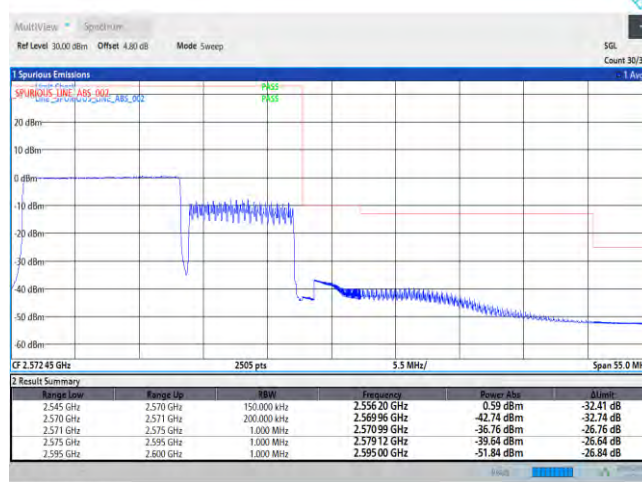
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



14:30:37 20.03.2023

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14:32:19 20.03.2023



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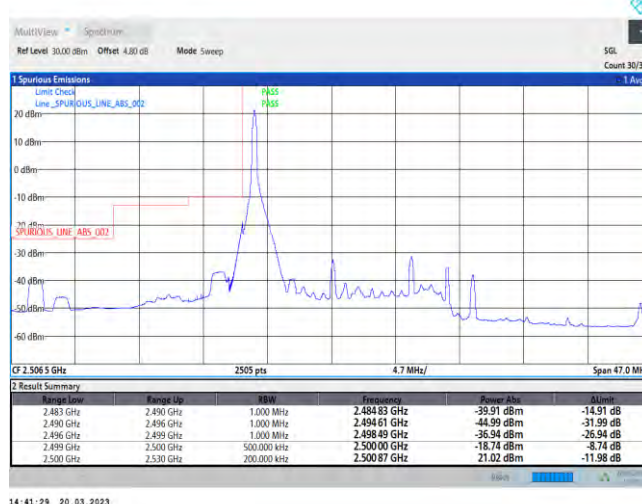
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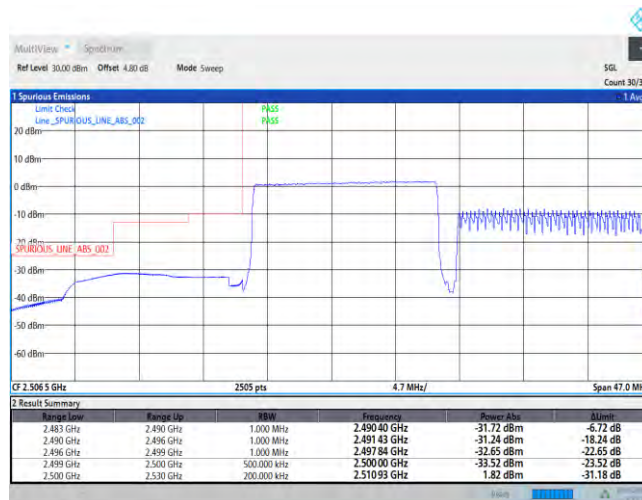
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



14:41:29 20.03.2023

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14:43:11 20.03.2023



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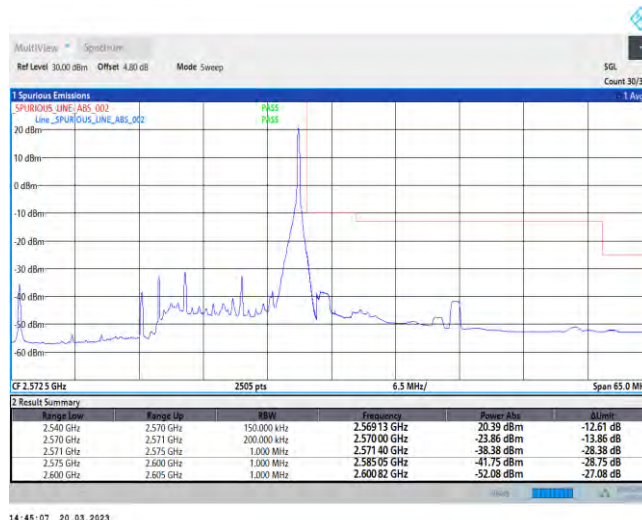
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



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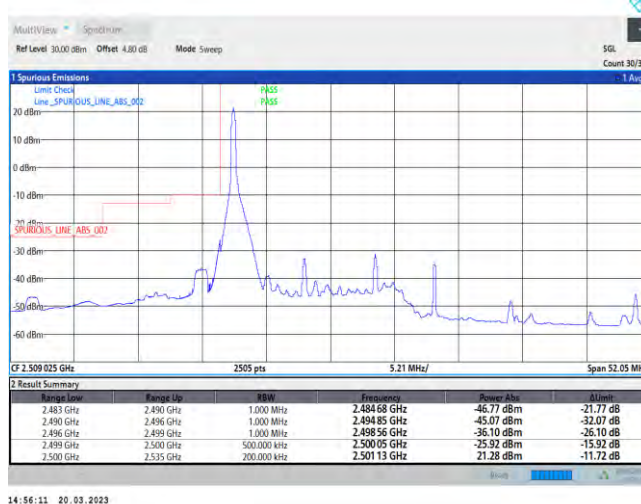
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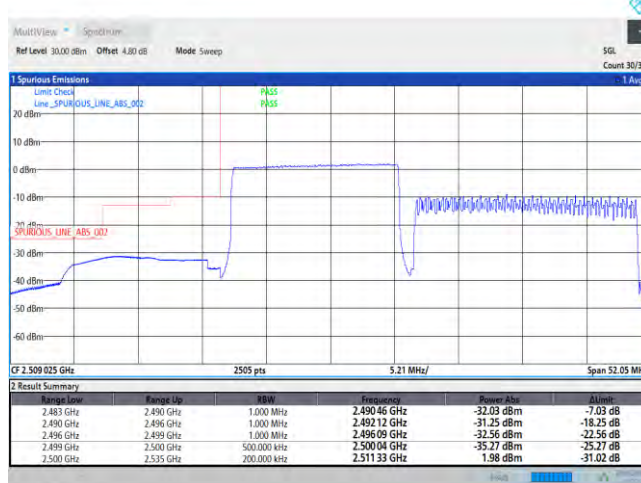
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14:56:11 20.03.2023

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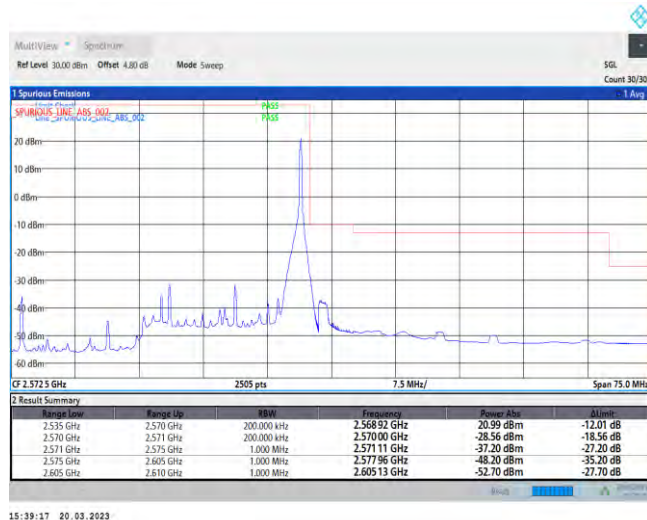
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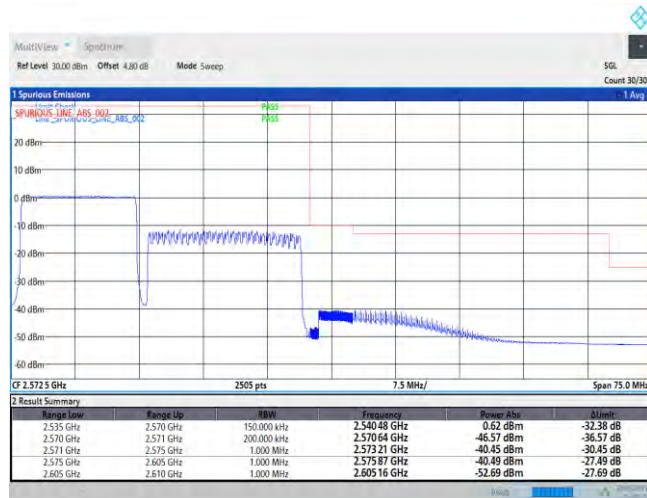
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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



15:39:17 20.03.2023

7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0



15:40:59 20.03.2023



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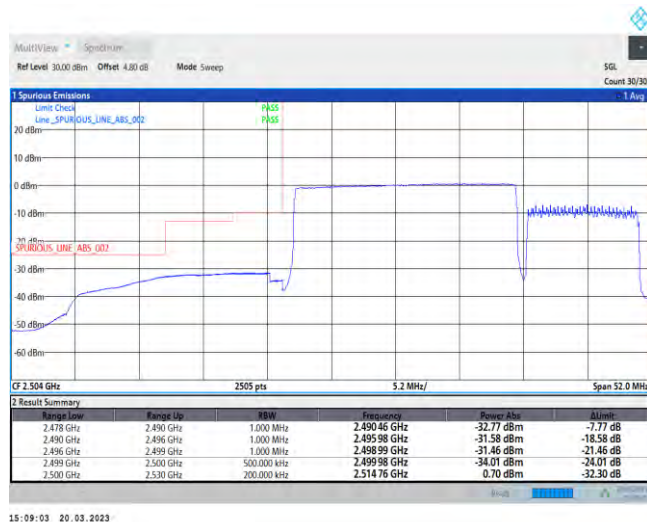
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



15:09:03 20.03.2023

7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0



15:07:21 20.03.2023



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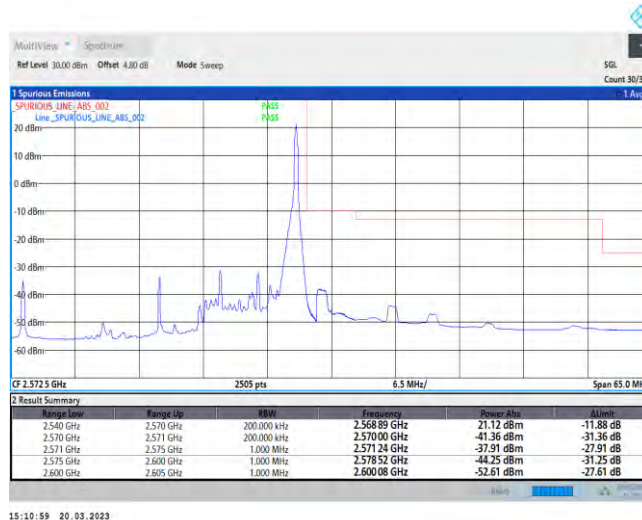
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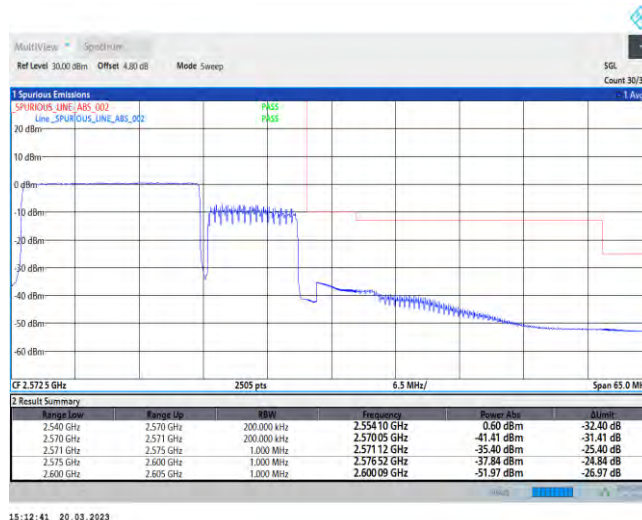
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



15:10:59 20.03.2023

7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



15:12:41 20.03.2023



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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



15:23:34 20.03.2023

7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0



15:21:51 20.03.2023



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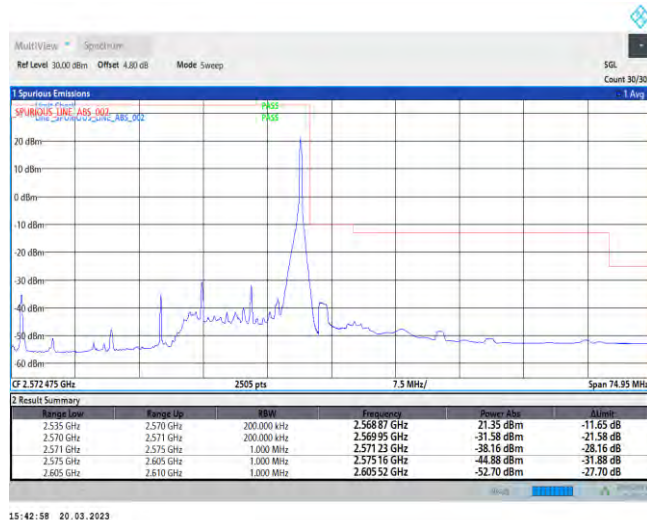
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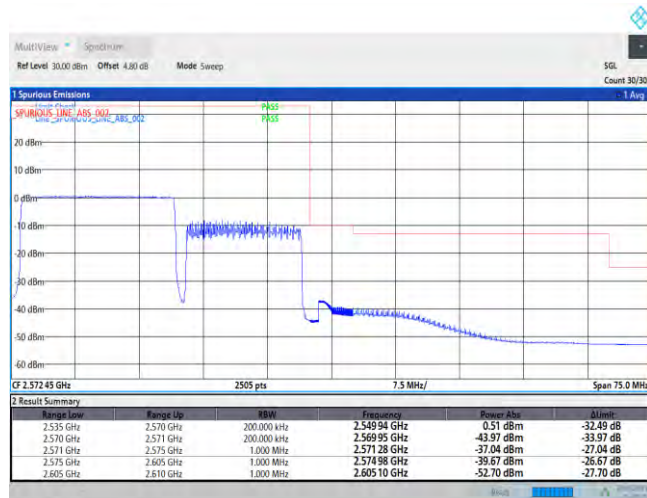
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



15:42:58 20.03.2023

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15:44:40 20.03.2023



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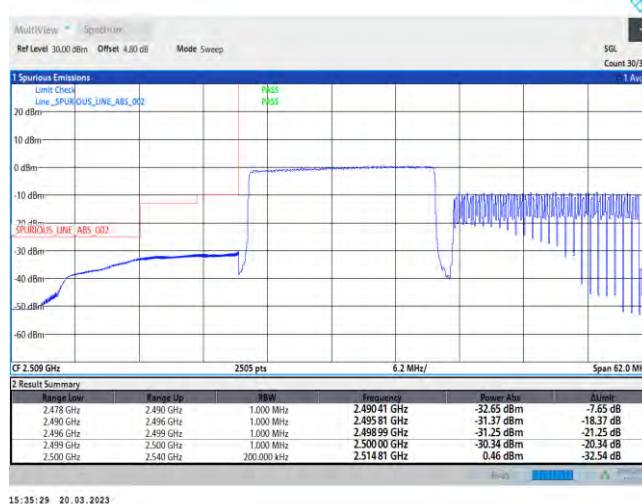
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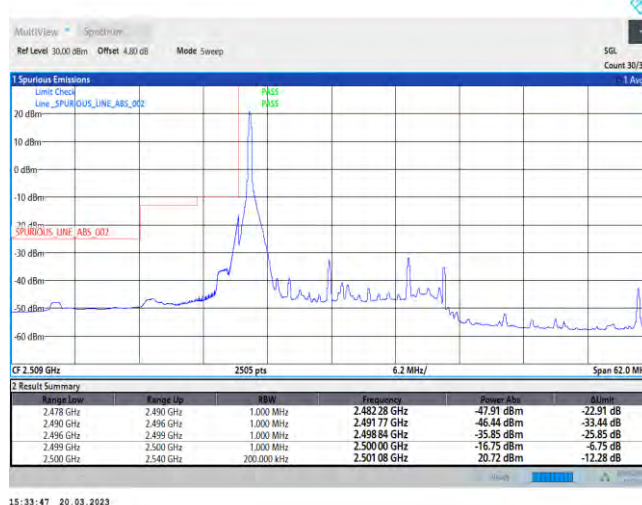
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



15:35:29 20.03.2023

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



15:33:47 20.03.2023



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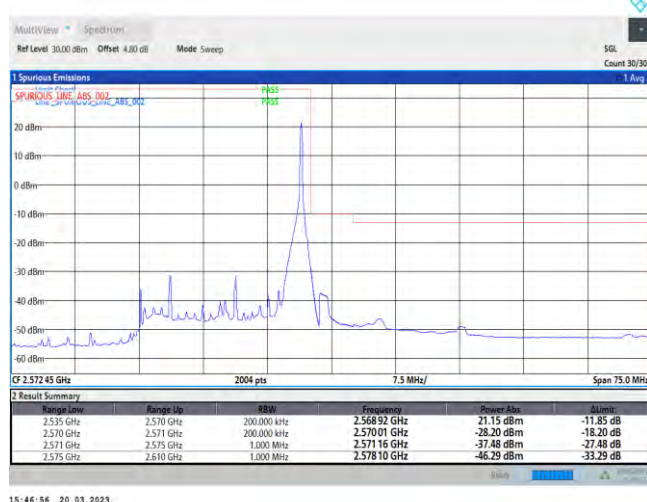
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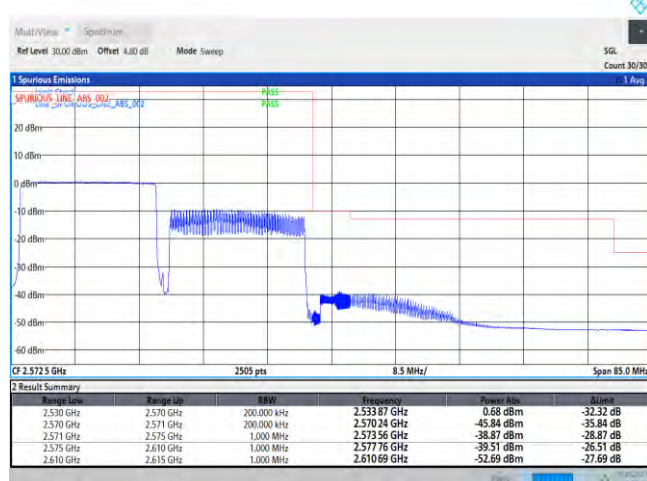
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



15:46:56 20.03.2023

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



15:11:20 16.03.2023



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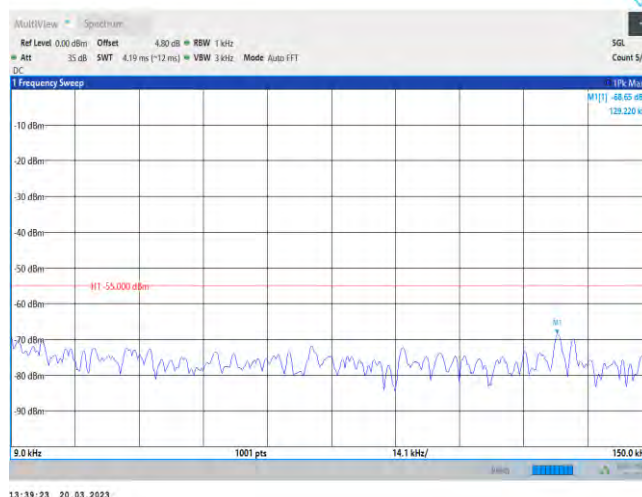
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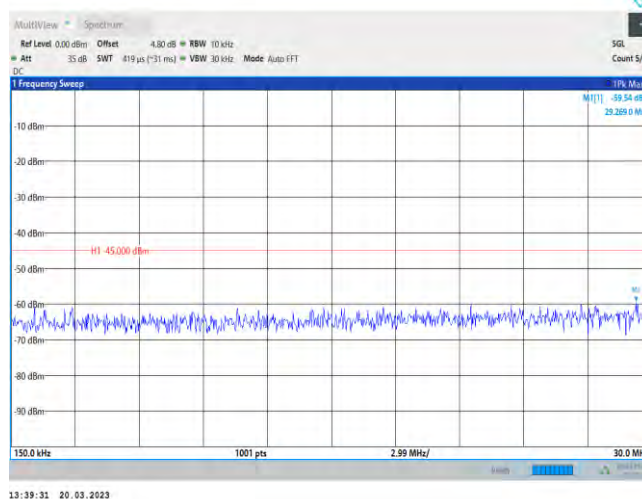
Conducted Spurious Emission

Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



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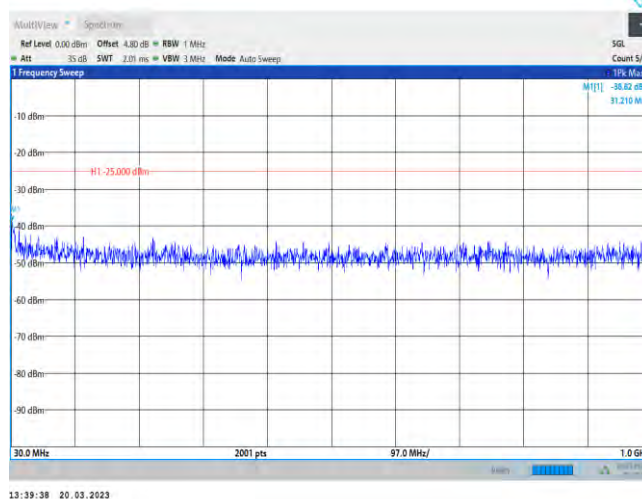
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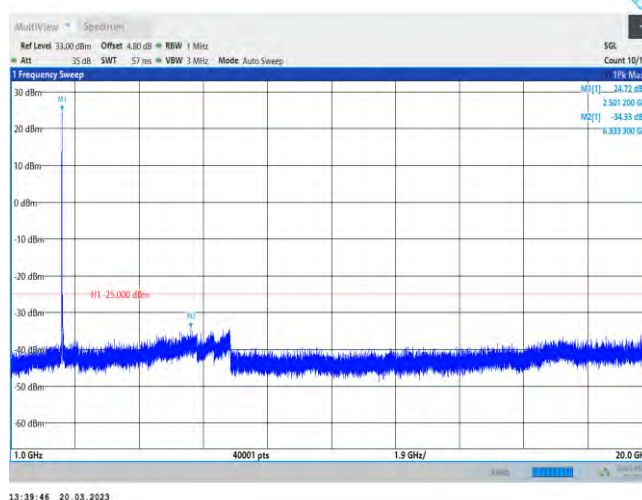
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz



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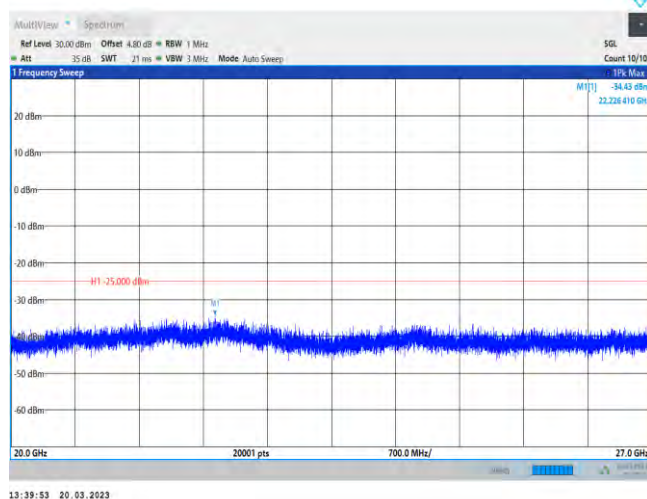
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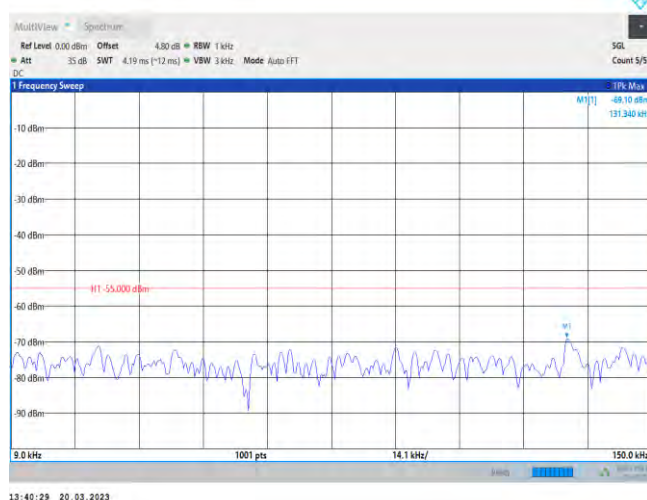
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



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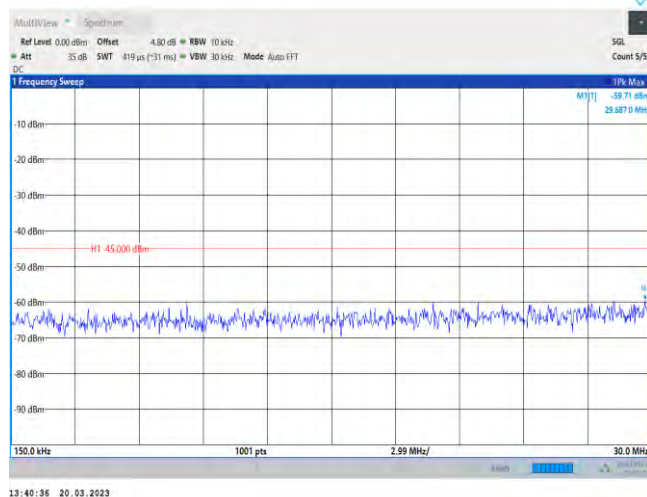
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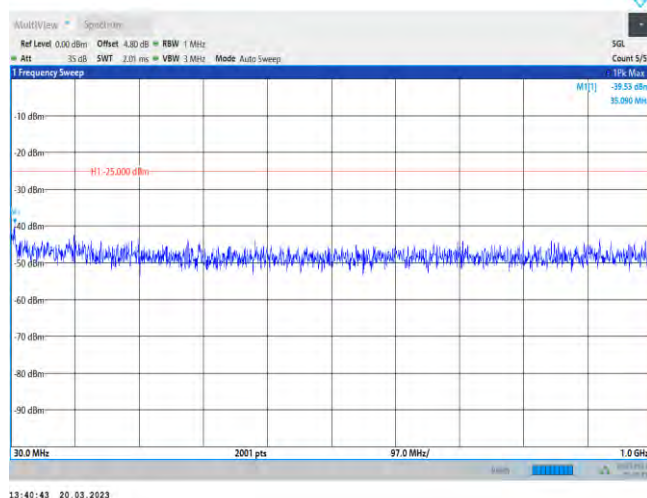
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



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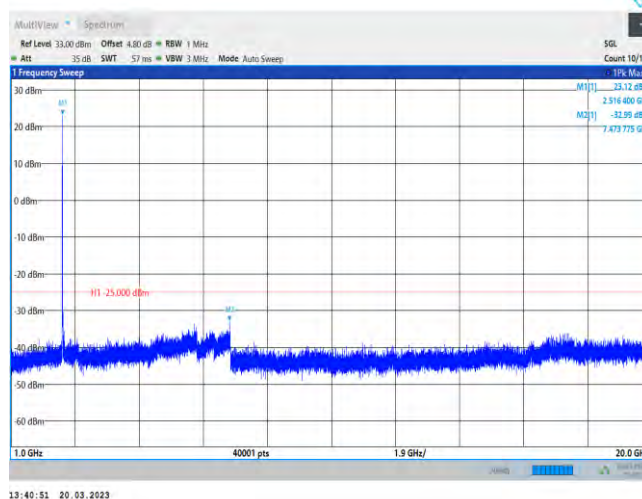
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Report No.: SEWA2303000029RG01

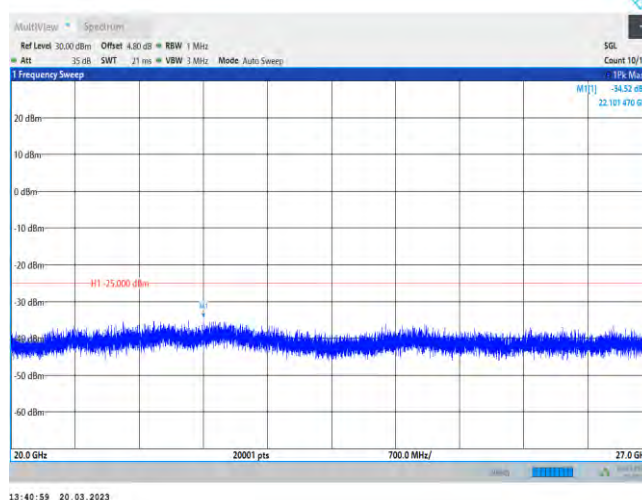
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



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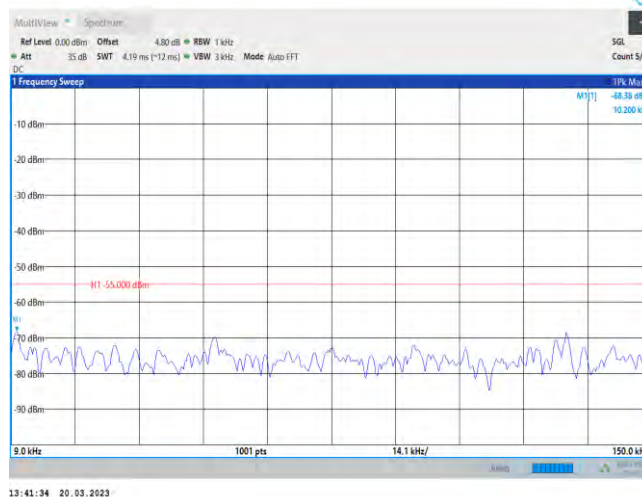
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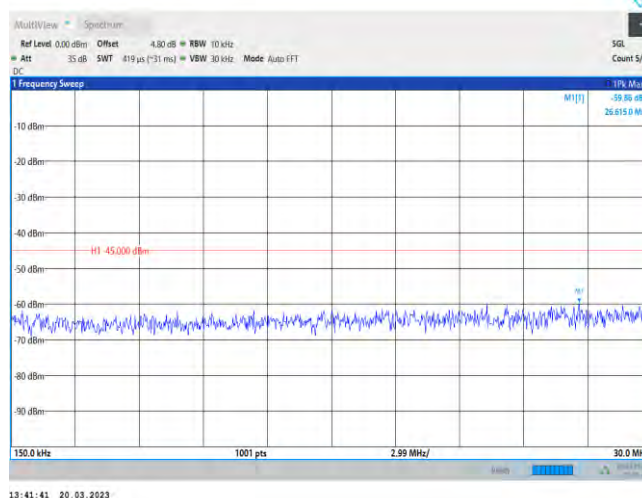
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



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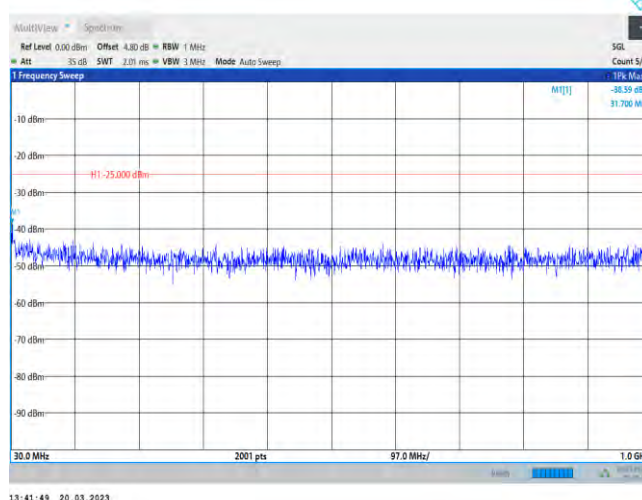
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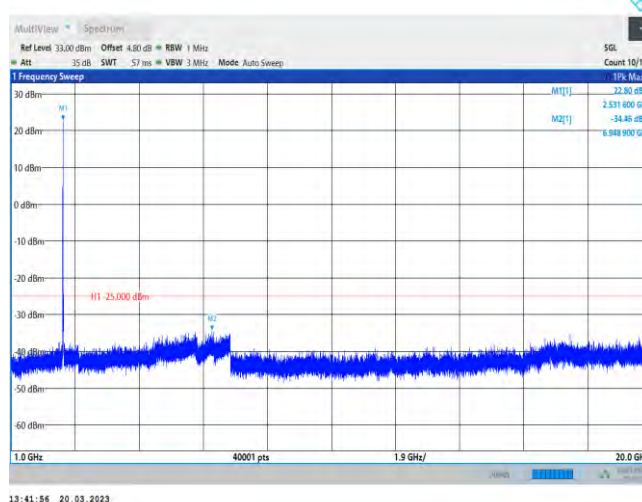
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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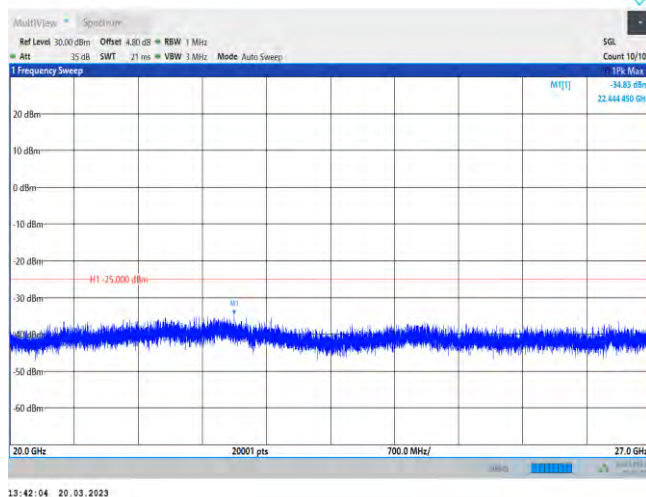
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band7C_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5010.75	49.05	-45.61	32.89	-58.94	-25.00	33.94	213	60	Horizontal
2	7516.5	56.99	-43.11	36.43	-44.94	-25.00	19.94	268	16	Horizontal
3	10022.25	39.75	-39.21	38.53	-56.20	-25.00	31.20	175	197	Horizontal
4	12505.4500	32.88	-36.99	39.18	-60.19	-25.00	35.19	169	317	Horizontal
5	15006.5400	30.04	-34.65	39.21	-60.66	-25.00	35.66	225	360	Horizontal
6	17507.6300	32.01	-34.95	39.22	-58.98	-25.00	33.98	182	4	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5010.75	52.57	-45.61	32.89	-55.42	-25.00	30.42	287	271	Vertical
2	7516.5	63.47	-43.11	36.43	-38.46	-25.00	13.46	132	120	Vertical
3	10022.25	47.50	-39.21	38.53	-48.45	-25.00	23.45	196	105	Vertical
4	12505.4500	32.31	-36.99	39.18	-60.76	-25.00	35.76	224	360	Vertical
5	15006.5400	29.97	-34.65	39.21	-60.73	-25.00	35.73	217	353	Vertical
6	17507.6300	32.22	-34.95	39.22	-58.77	-25.00	33.77	156	121	Vertical



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Test Band = LTE Band7C_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5041.5	48.42	-45.53	32.90	-59.47	-25.00	34.47	228	60	Horizontal
2	7562.25	53.88	-43.01	36.41	-47.98	-25.00	22.98	164	16	Horizontal
3	10064.7600	34.83	-39.16	38.59	-61.00	-25.00	36.00	146	359	Horizontal
4	12580.9500	31.48	-37.49	39.26	-62.01	-25.00	37.01	218	269	Horizontal
5	15097.1400	29.95	-34.94	39.09	-61.16	-25.00	36.16	227	134	Horizontal
6	17613.3300	31.93	-33.34	39.62	-57.05	-25.00	32.05	149	343	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5041.5	54.49	-45.53	32.90	-53.40	-25.00	28.40	143	299	Vertical
2	7562.25	61.25	-43.01	36.41	-40.61	-25.00	15.61	297	88	Vertical
3	10083	43.48	-39.14	38.62	-52.30	-25.00	27.30	185	103	Vertical
4	12580.9500	31.59	-37.49	39.26	-61.90	-25.00	36.90	256	240	Vertical
5	15097.1400	29.96	-34.94	39.09	-61.15	-25.00	36.15	213	344	Vertical
6	17613.3300	31.34	-33.34	39.62	-57.64	-25.00	32.64	174	165	Vertical



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Test Band = LTE Band7C_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5071.5	50.11	-45.45	32.92	-57.68	-25.00	32.68	245	60	Horizontal
2	7607.25	54.00	-42.94	36.40	-47.80	-25.00	22.80	162	194	Horizontal
3	10143	37.18	-39.28	38.72	-58.64	-25.00	33.64	268	120	Horizontal
4	12656.4500	32.99	-37.08	39.38	-59.97	-25.00	34.97	183	3	Horizontal
5	15187.7400	30.19	-34.04	38.97	-60.15	-25.00	35.15	148	360	Horizontal
6	17719.0300	31.78	-34.15	40.30	-57.33	-25.00	32.33	220	118	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5071.5	56.02	-45.45	32.92	-51.77	-25.00	26.77	208	282	Vertical
2	7607.25	62.16	-42.94	36.40	-39.64	-25.00	14.64	214	121	Vertical
3	10143	46.34	-39.28	38.72	-49.48	-25.00	24.48	199	106	Vertical
4	12656.4500	31.92	-37.08	39.38	-61.04	-25.00	36.04	258	90	Vertical
5	15187.7400	30.32	-34.04	38.97	-60.02	-25.00	35.02	273	222	Vertical
6	17719.0300	31.71	-34.15	40.30	-57.40	-25.00	32.40	215	225	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VH	NT	47.60	0.018851	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VL	NT	57.20	0.022653	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	VN	NT	50.00	0.019801	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-30	50.70	0.020078	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-20	49.60	0.019643	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	-10	48.50	0.019207	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	0	53.40	0.021148	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	10	41.10	0.016277	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	20	52.20	0.020672	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	30	46.90	0.018574	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	40	65.80	0.026058	PASS
7-7	20MHz-20MHz	QPSK -QPSK	21001-21199	100RB#0-100RB#0	NV	50	37.50	0.014851	PASS

---End of Attachment---



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