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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	23.41	27.41	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	22.54	26.54	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	23.43	27.43	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	22.64	26.64	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	23.52	27.52	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	22.73	26.73	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	22.79	26.79	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	21.53	25.53	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	22.95	26.95	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	21.59	25.59	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	23.11	27.11	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	21.69	25.69	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	21.78	25.78	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	20.53	24.53	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	21.79	25.79	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	20.61	24.61	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	21.84	25.84	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	20.72	24.72	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	23.44	27.44	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	22.53	26.53	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	23.53	27.53	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	22.67	26.67	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	23.63	27.63	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	22.67	26.67	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	23.02	27.02	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	21.52	25.52	33	PASS



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7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	23.00	27	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	21.66	25.66	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	23.14	27.14	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	21.67	25.67	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	21.77	25.77	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	20.49	24.49	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	21.81	25.81	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	20.63	24.63	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	21.98	25.98	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	20.67	24.67	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	23.50	27.5	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	22.56	26.56	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	23.49	27.49	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	22.67	26.67	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	23.57	27.57	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	22.77	26.77	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	22.90	26.9	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	21.53	25.53	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	23.13	27.13	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	21.63	25.63	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	23.15	27.15	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	21.71	25.71	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	21.79	25.79	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	20.53	24.53	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	21.77	25.77	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	20.62	24.62	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	21.96	25.96	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	20.70	24.7	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	23.47	27.47	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	22.52	26.52	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	23.45	27.45	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	22.59	26.59	33	PASS



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7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	23.64	27.64	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	22.66	26.66	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	22.91	26.91	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	21.53	25.53	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	23.05	27.05	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	21.62	25.62	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	23.27	27.27	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	21.63	25.63	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	21.73	25.73	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	20.50	24.5	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	21.84	25.84	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	20.61	24.61	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	21.98	25.98	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	20.65	24.65	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	22.42	26.42	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	23.50	27.5	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	22.73	26.73	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	23.52	27.52	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	22.76	26.76	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	23.55	27.55	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	21.38	25.38	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	23.06	27.06	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	21.71	25.71	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	23.15	27.15	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	21.73	25.73	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	23.10	27.1	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	20.41	24.41	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	21.86	25.86	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	20.68	24.68	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	21.83	25.83	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	20.77	24.77	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	21.89	25.89	33	PASS



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7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	22.43	26.43	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	23.49	27.49	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	22.71	26.71	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	23.45	27.45	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	22.72	26.72	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	23.61	27.61	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	21.41	25.41	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	23.09	27.09	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	21.64	25.64	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	22.87	26.87	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	21.68	25.68	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	23.13	27.13	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	20.41	24.41	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	21.72	25.72	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	20.66	24.66	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	21.78	25.78	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	20.71	24.71	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	21.96	25.96	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	22.42	26.42	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	23.47	27.47	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	22.65	26.65	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	23.53	27.53	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	22.77	26.77	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	23.66	27.66	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	21.42	25.42	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	22.97	26.97	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	21.63	25.63	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	23.16	27.16	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	21.75	25.75	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	23.11	27.11	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	20.41	24.41	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	21.80	25.8	33	PASS



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7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	20.63	24.63	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	21.91	25.91	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	20.74	24.74	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	21.91	25.91	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	6.06	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	6.14	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	6.18	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	7.18	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	7.12	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	7.30	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	7.54	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	7.48	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	7.60	13	PASS



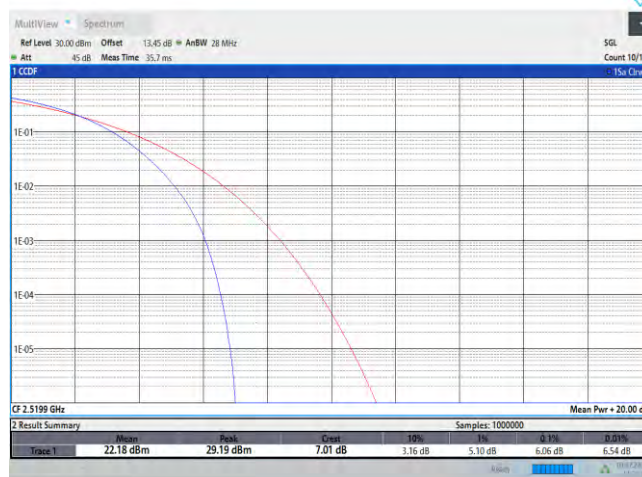
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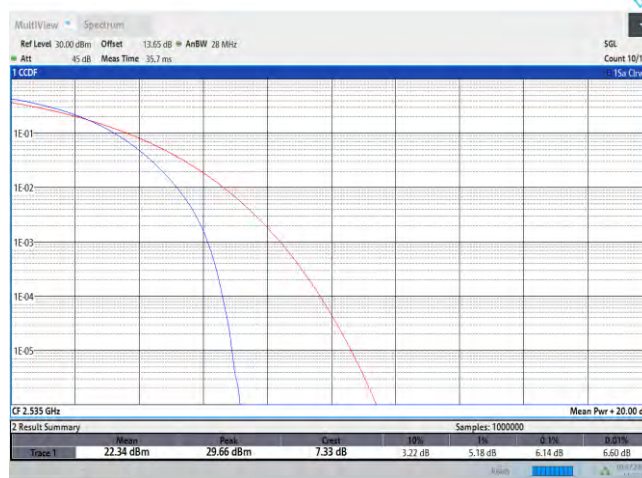
Test Graphs

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



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



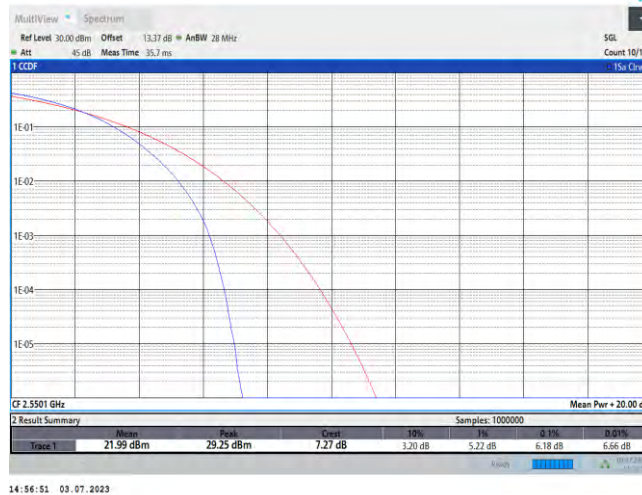
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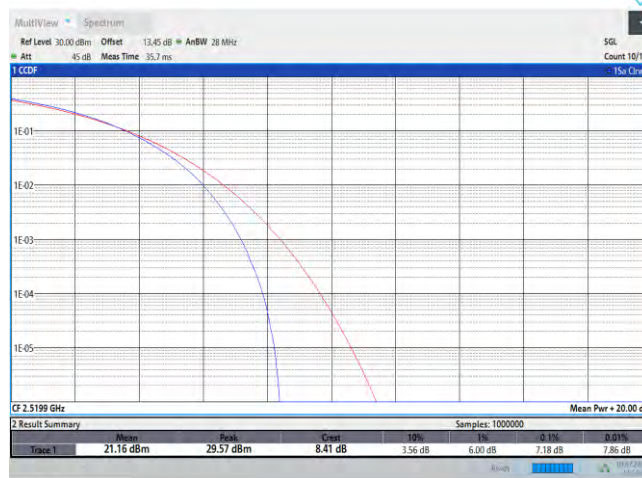
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



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



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



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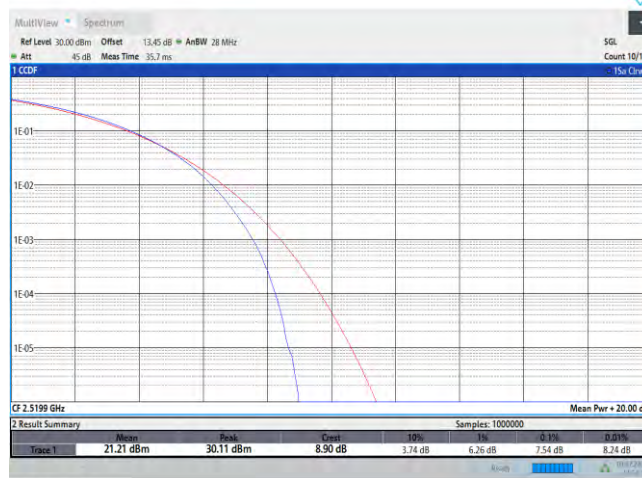
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7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



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

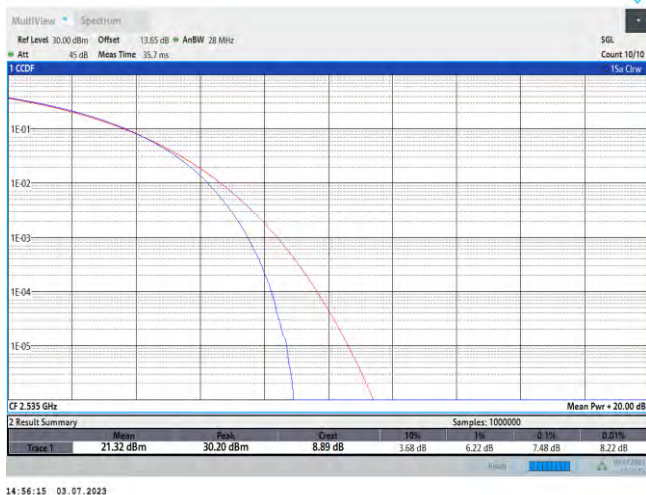


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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



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



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	PASS	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	PASS	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	PASS	PASS

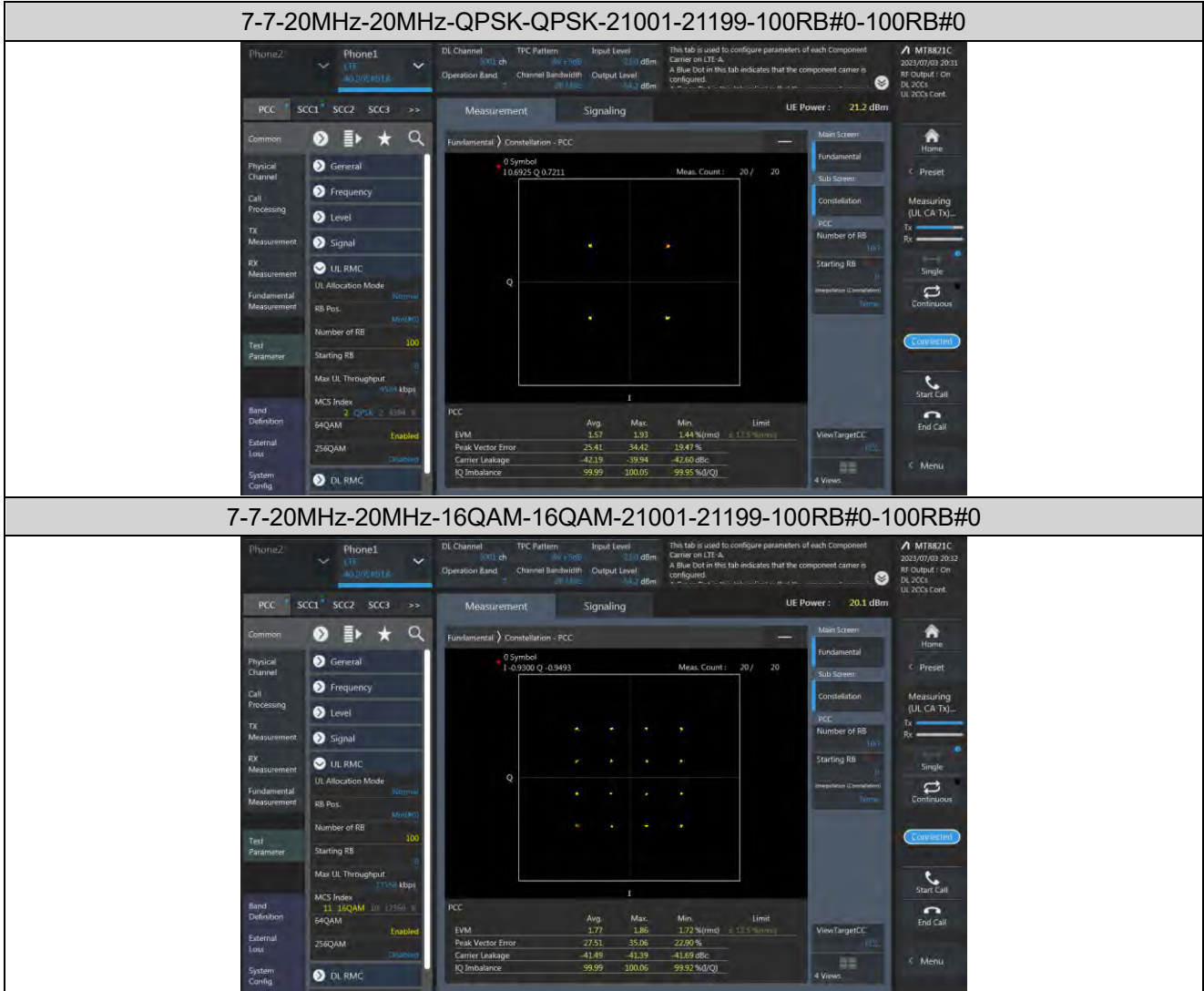


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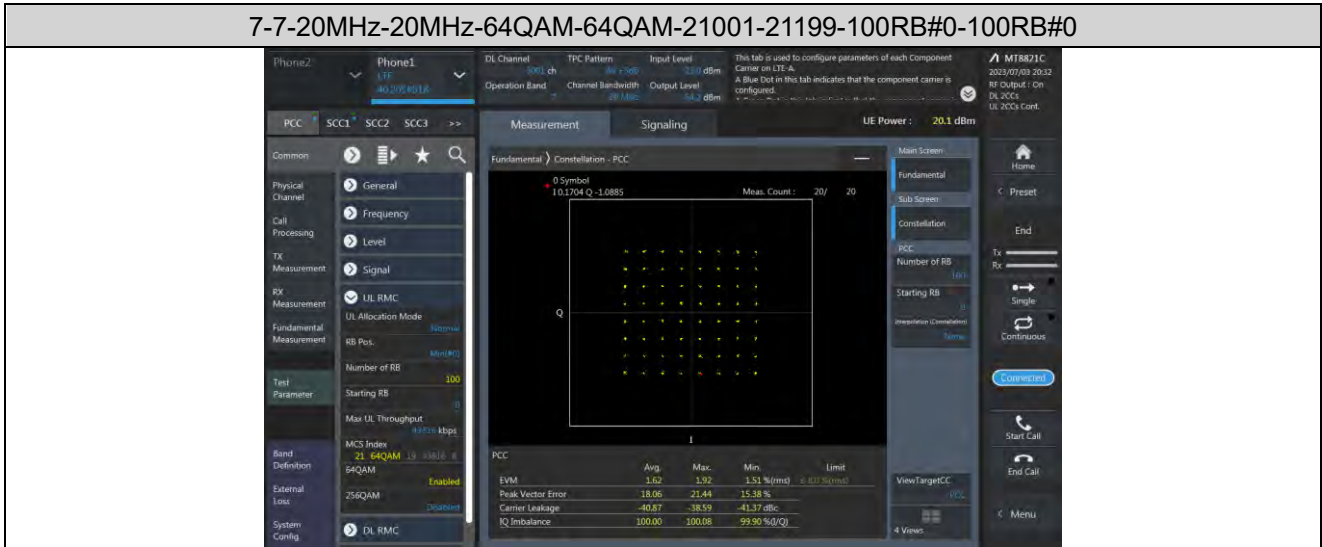
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	27.705	29.34	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.691	29.34	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.669	29.34	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.722	29.28	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.683	29.22	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.651	29.16	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.636	29.22	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.596	29.22	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	27.562	29.22	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.126	24.65	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.113	24.65	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.13	24.70	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.118	24.85	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.102	24.75	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.108	24.80	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	23.067	24.80	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.057	24.75	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	23.051	24.80	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	28.303	30.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.307	30.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.271	30.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	28.325	30.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.314	30.06	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.292	30.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	28.221	30.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.215	30.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	28.186	30.06	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	32.573	34.44	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.544	34.51	PASS



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7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.537	34.37	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	32.611	34.44	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.57	34.37	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.593	34.51	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	32.481	34.37	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.5	34.37	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	32.456	34.37	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	27.78	29.58	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.811	29.58	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.767	29.52	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	27.689	29.40	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.714	29.46	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.703	29.46	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	27.658	29.46	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.66	29.52	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	27.635	29.52	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	32.776	34.65	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.673	34.65	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.656	34.58	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	32.585	34.51	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.58	34.37	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.572	34.44	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	32.479	34.51	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.487	34.44	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	32.463	34.51	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	37.752	40.56	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.807	40.72	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.774	40.64	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	37.701	40.32	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.744	40.24	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.713	40.40	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	37.541	40.32	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.575	40.32	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	37.556	40.32	PASS



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Test Graphs

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



14:14:48 03.07.2023

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



14:16:49 03.07.2023



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



14:18:50 03.07.2023

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



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



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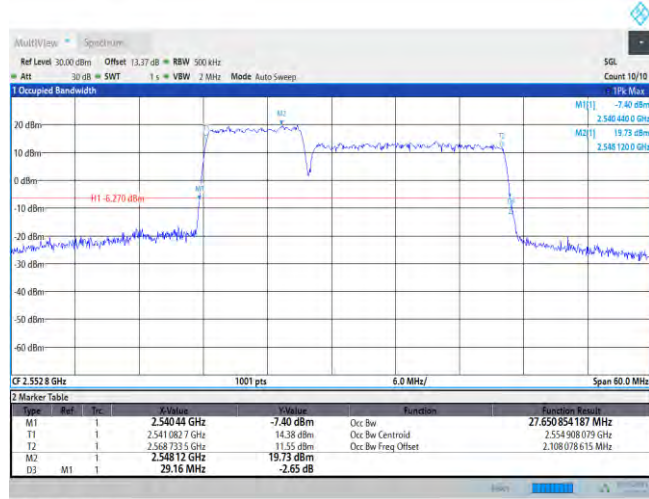


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7-7-10MHz-20MHz-16QAM-16QAM-21206-21350-50RB#0-100RB#0



14:19:28 03.07.2023

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



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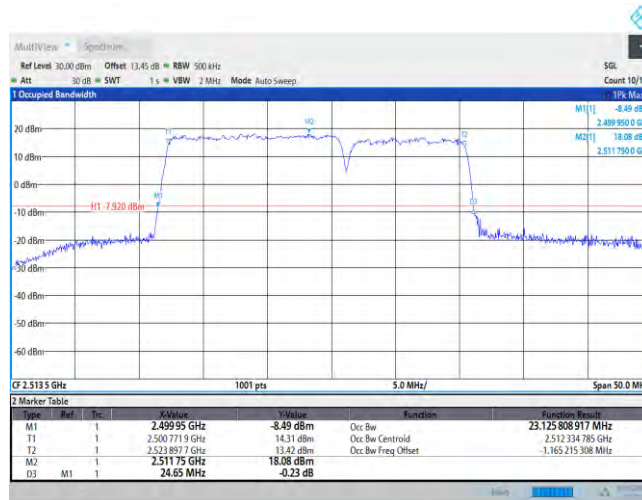
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7-7-10MHz-20MHz-64QAM-64QAM-21206-21350-50RB#0-100RB#0



14:20:07 03.07.2023

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



14:21:18 03.07.2023



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



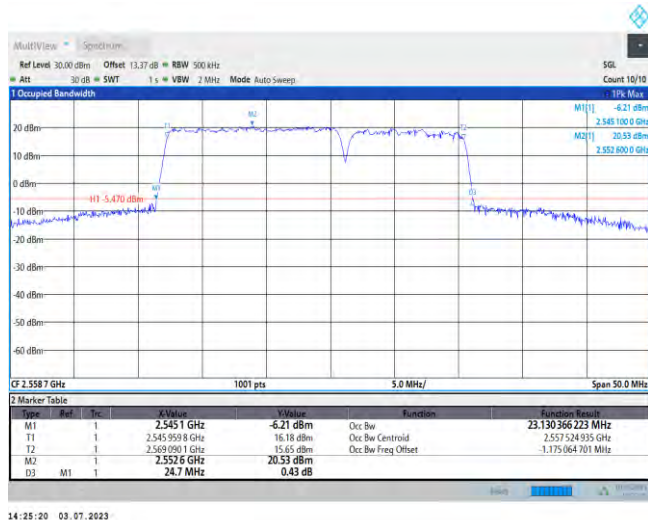
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



14:25:20 03.07.2023

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



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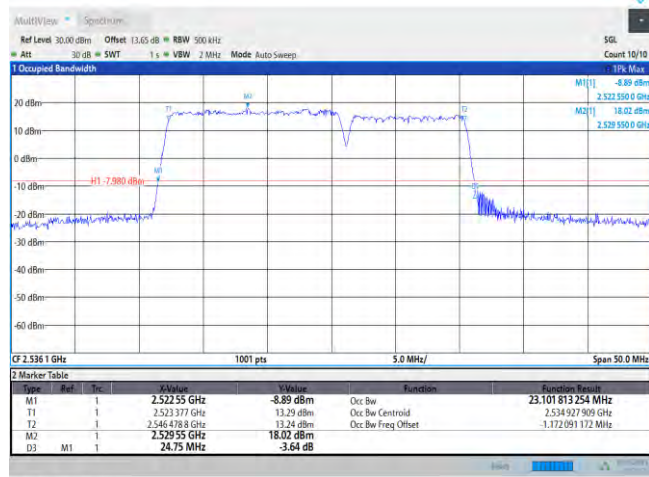


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7-7-15MHz-10MHz-16QAM-16QAM-21277-21397-75RB#0-50RB#0



14:25:58 03.07.2023

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14:26:37 03.07.2023

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



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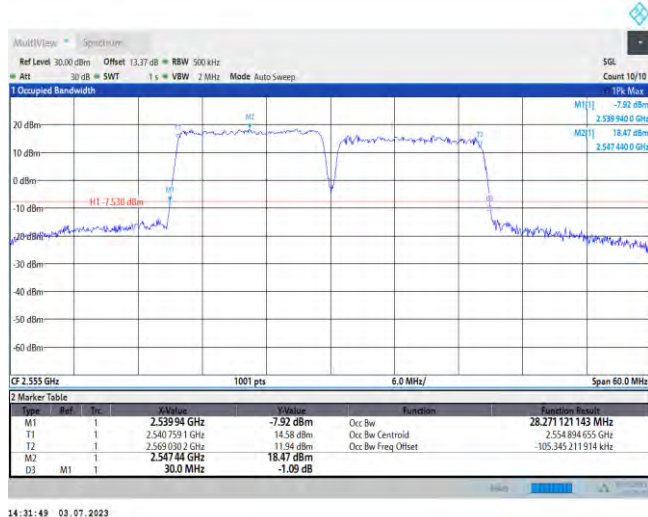


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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



14:31:49 03.07.2023

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



14:28:26 03.07.2023



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



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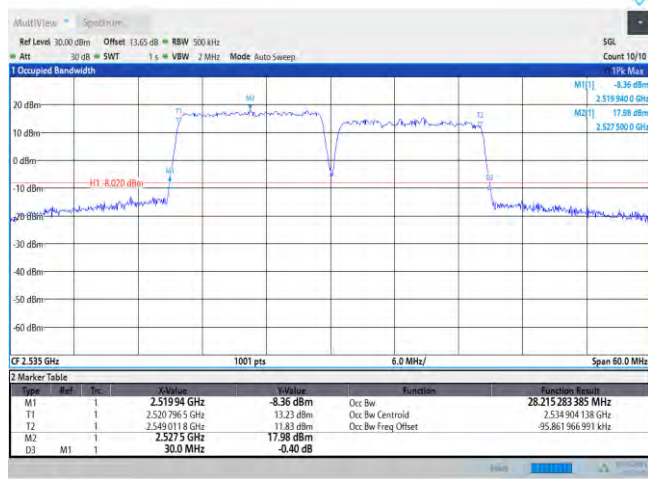
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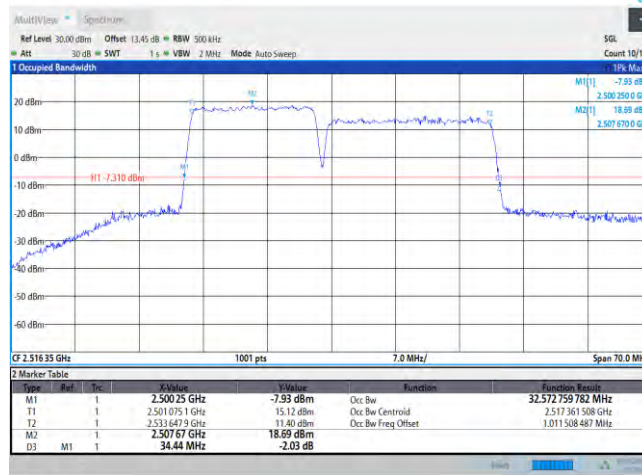
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14:33:07 03.07.2023

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14:34:07 03.07.2023



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Report No.: XEWM2306000327RG01
 Rev.: 01
 Page: 36 of 89

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



14:36:09 03.07.2023



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



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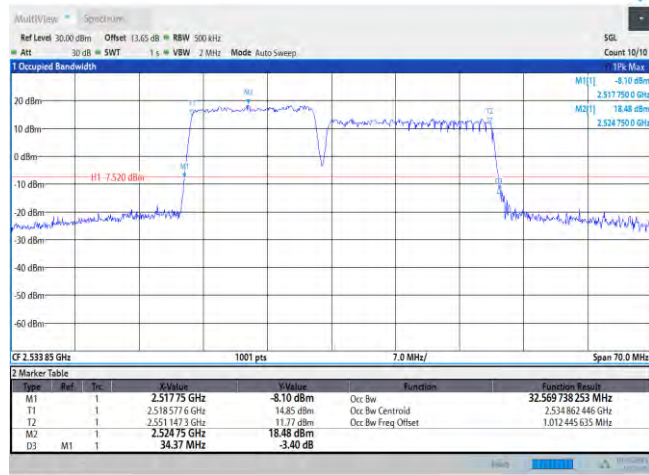
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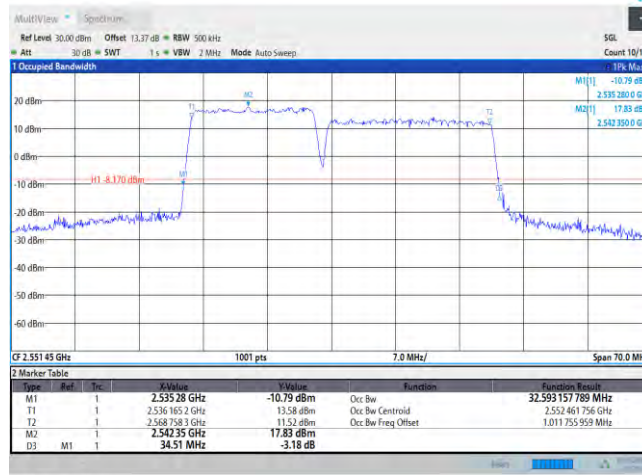


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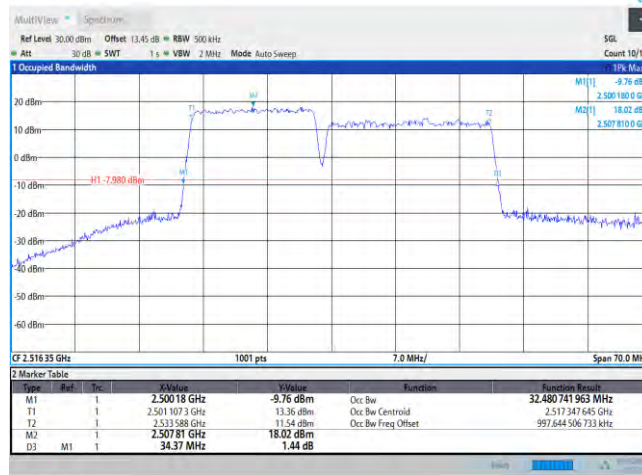
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7-7-15MHz-20MHz-16QAM-16QAM-21179-21350-75RB#0-100RB#0



14:38:49 03.07.2023

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14:35:25 03.07.2023



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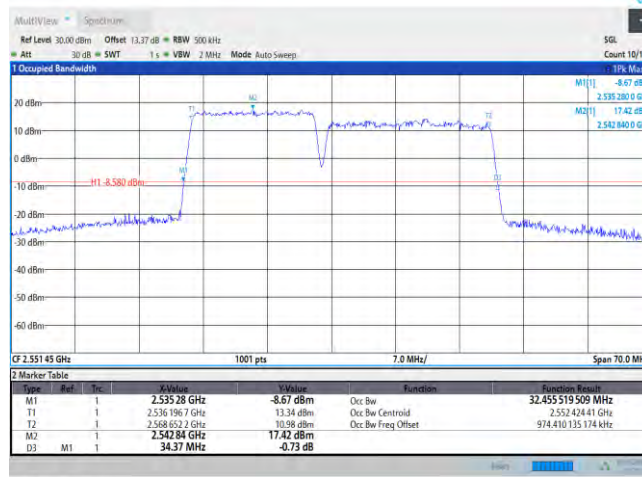


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14:40:30 03.07.2023



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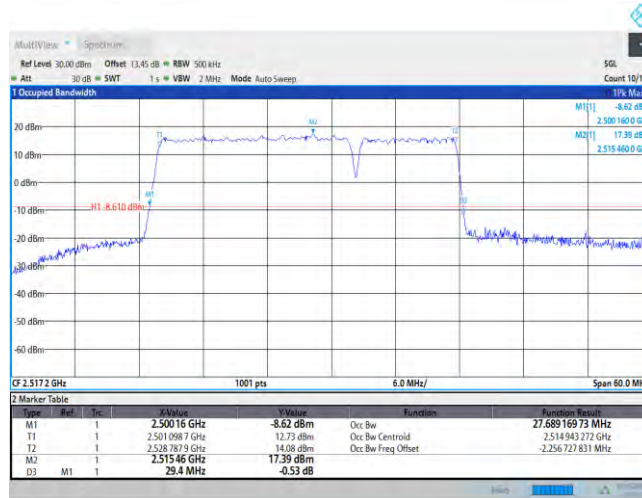
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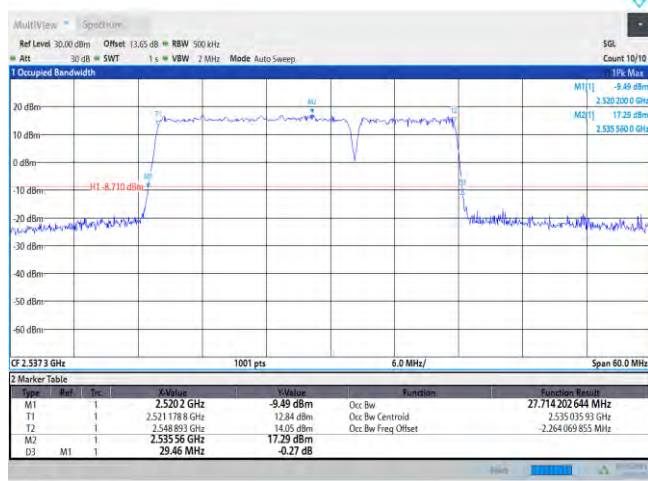
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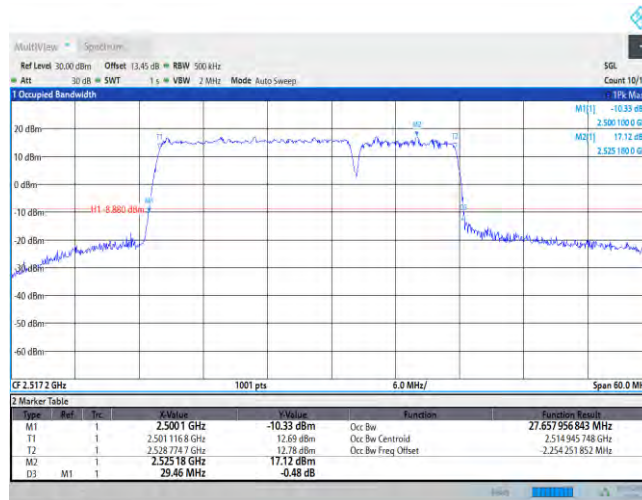
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7-7-20MHz-10MHz-16QAM-16QAM-21251-21395-100RB#0-50RB#0



14:45:20 03.07.2023

7-7-20MHz-10MHz-64QAM-64QAM-20850-20994-100RB#0-50RB#0



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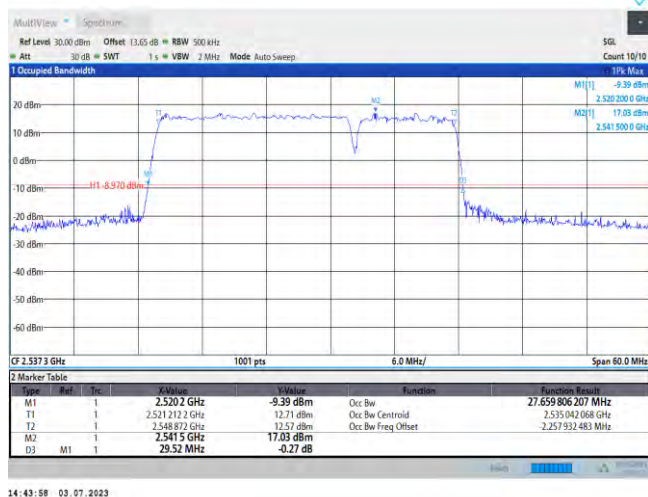


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Report No.: XEWM2306000327RG01
 Rev.: 01
 Page: 46 of 89

7-7-20MHz-10MHz-64QAM-64QAM-21051-21195-100RB#0-50RB#0



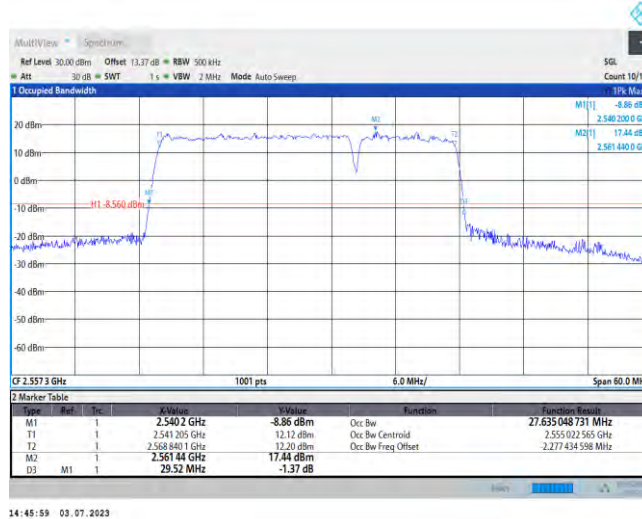
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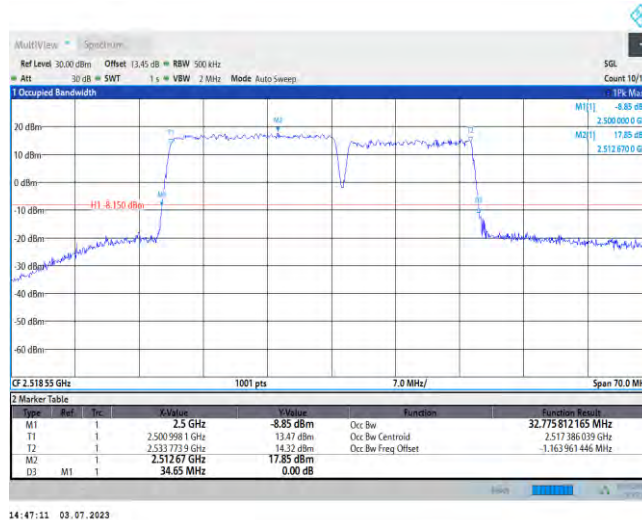
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7-7-20MHz-10MHz-64QAM-64QAM-21251-21395-100RB#0-50RB#0



14:45:59 03.07.2023

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



14:47:11 03.07.2023



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



14:49:12 03.07.2023



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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



14:51:13 03.07.2023

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



14:47:50 03.07.2023



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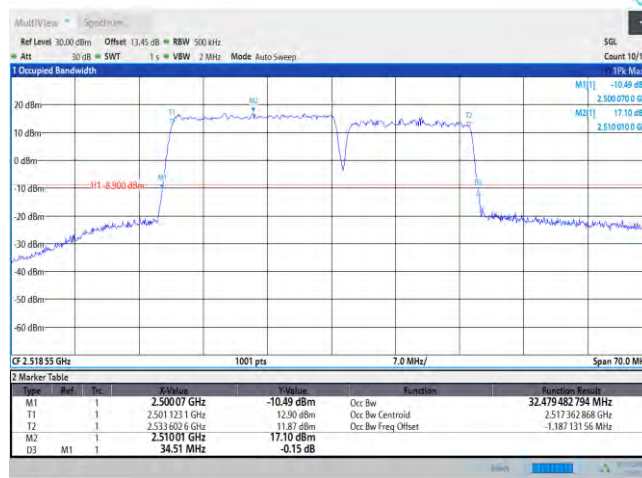
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7-7-20MHz-15MHz-16QAM-16QAM-21201-21372-100RB#0-75RB#0



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7-7-20MHz-15MHz-64QAM-64QAM-20850-21021-100RB#0-75RB#0



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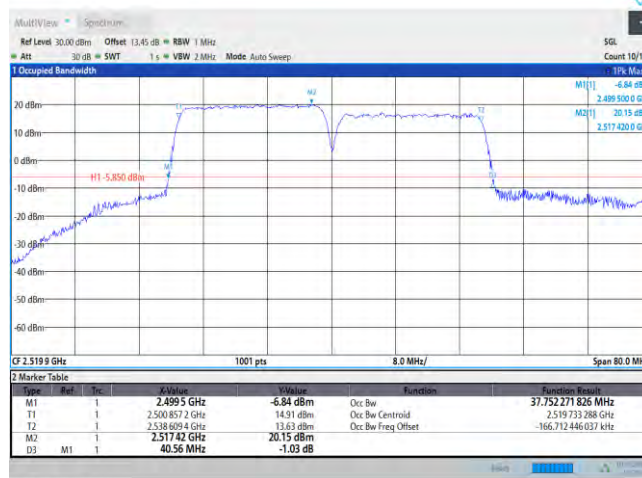
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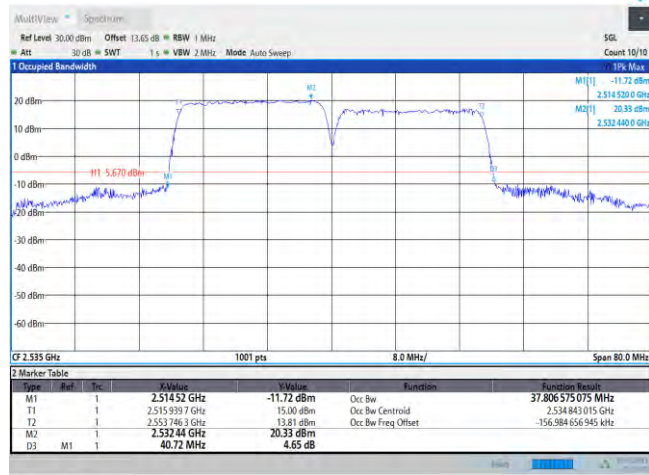
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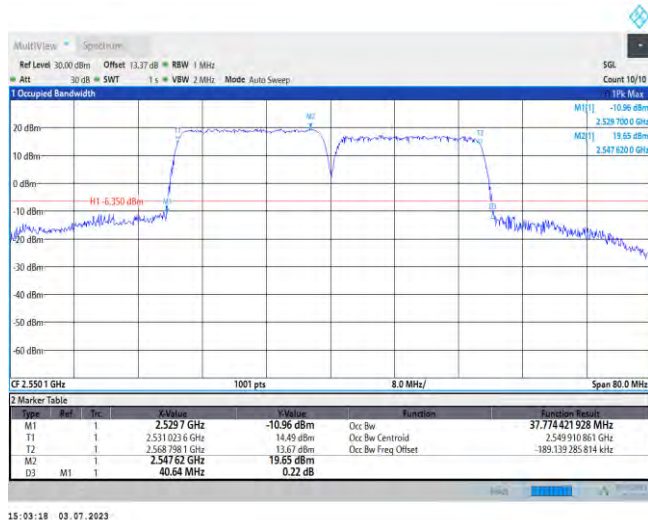
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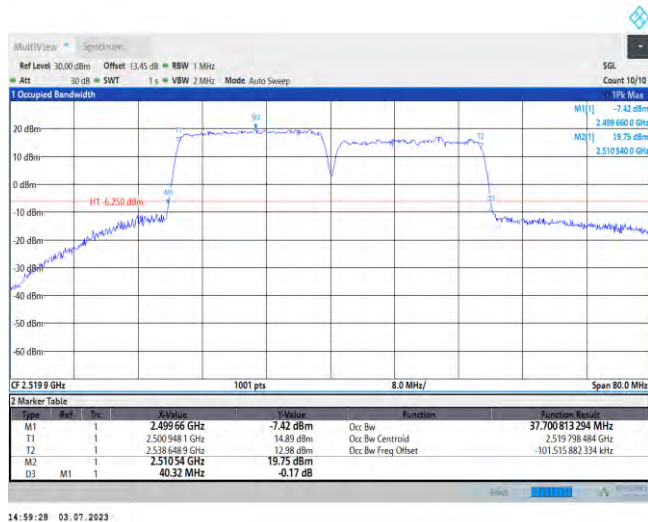
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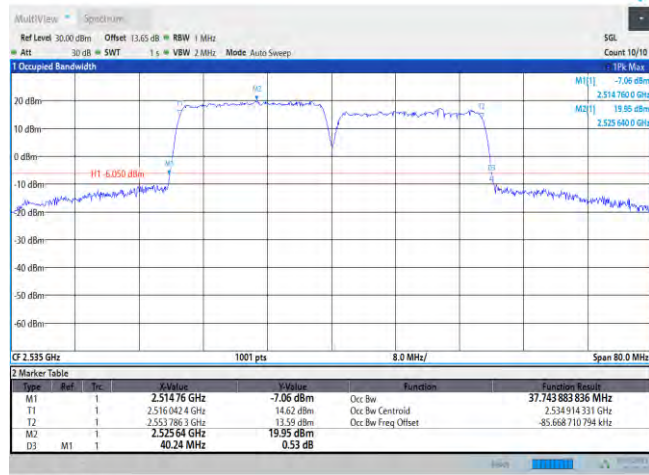


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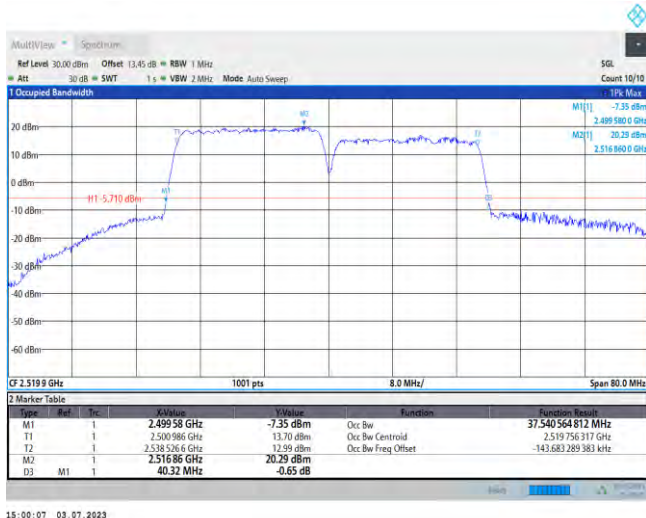
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15:03:56 03.07.2023

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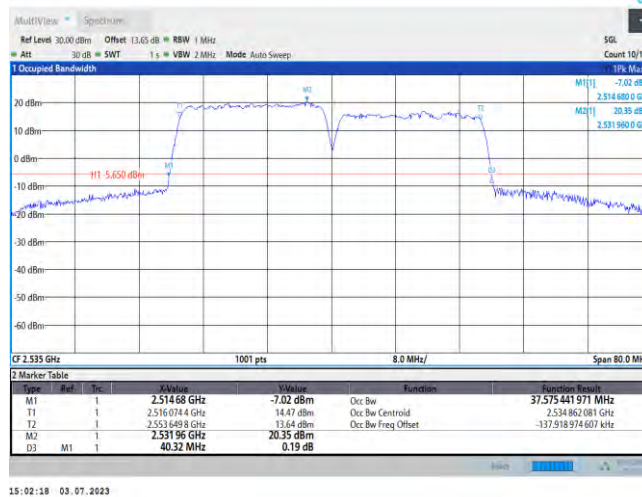


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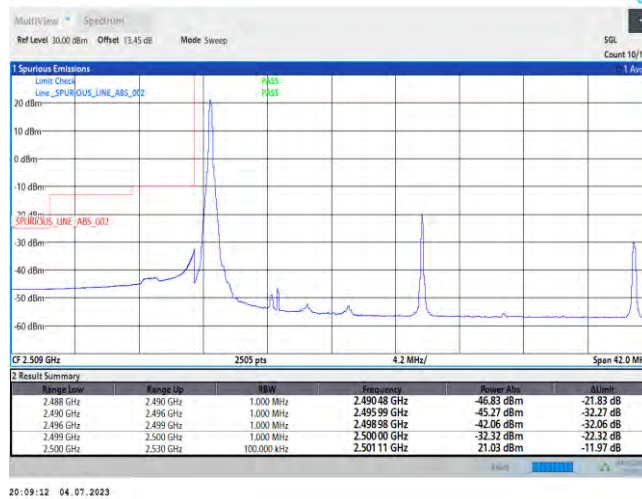
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Band Edge

Test Graphs

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



20:09:12 04.07.2023

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



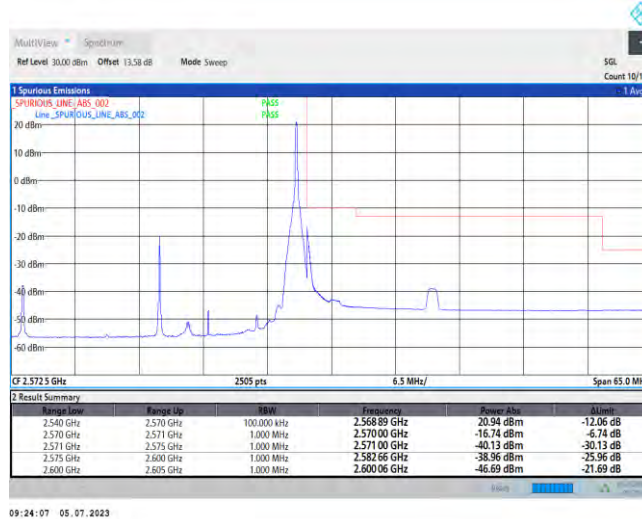
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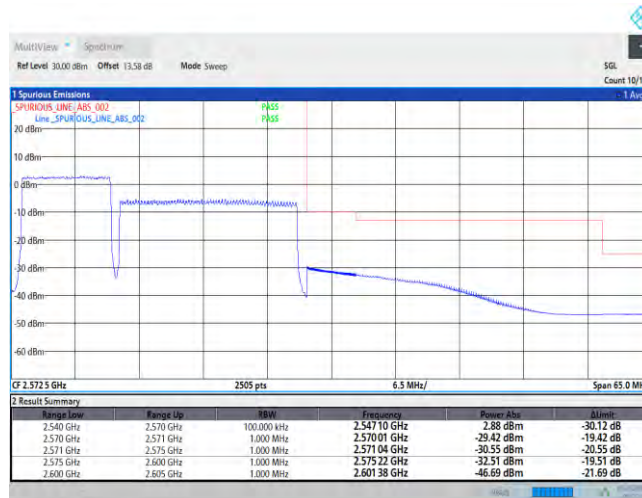
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



09:24:07 05.07.2023

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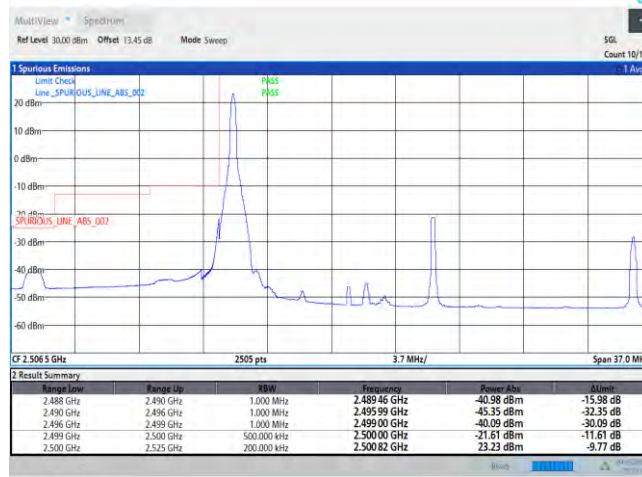
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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



20:12:42 04.07.2023

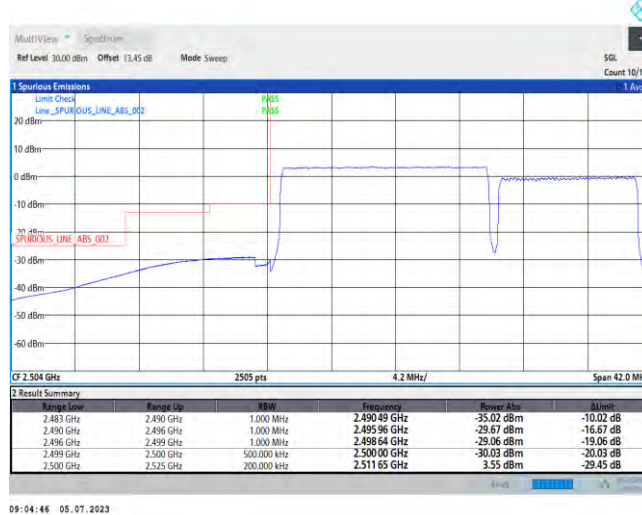


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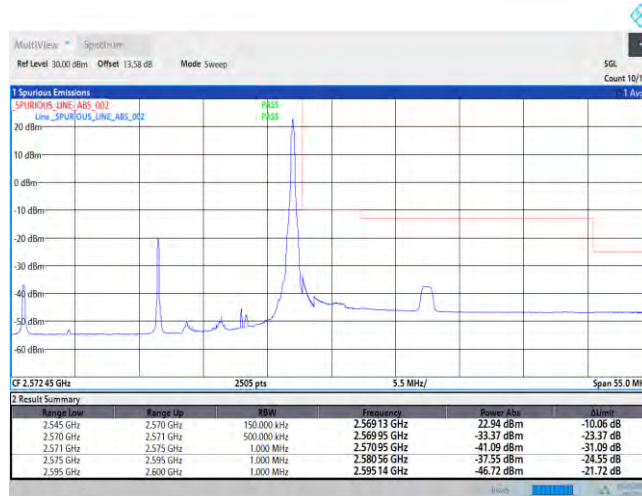
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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



09:04:46 05.07.2023

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



09:27:37 05.07.2023



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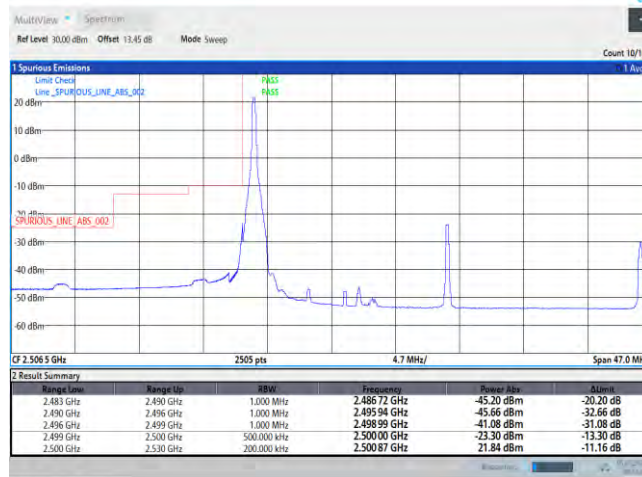
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



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



20:18:30 04.07.2023



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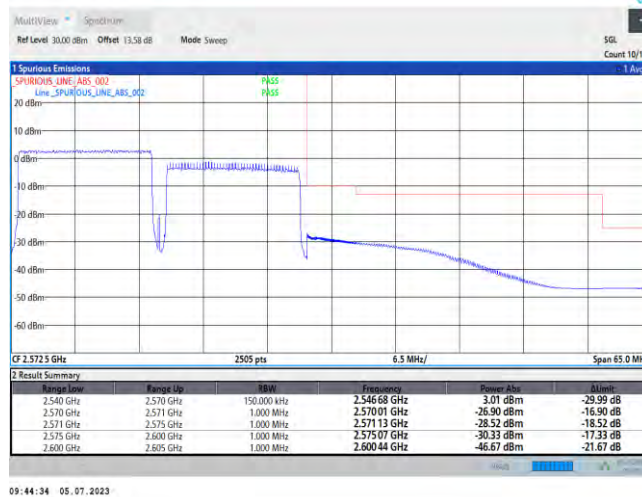
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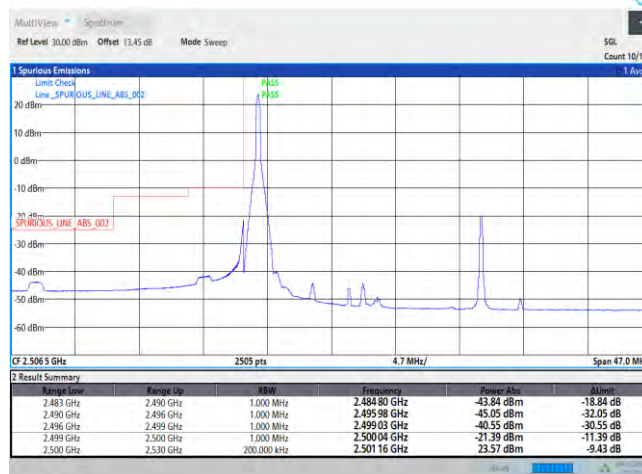
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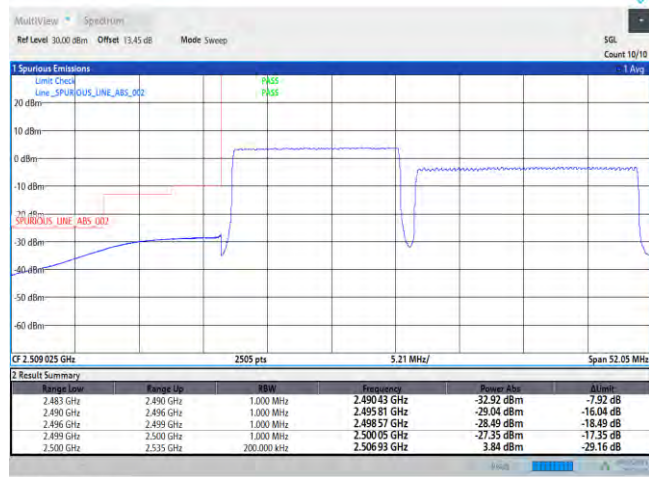
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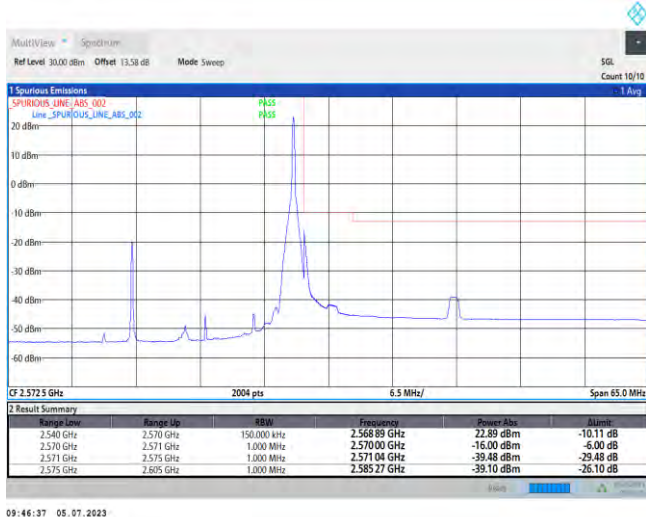


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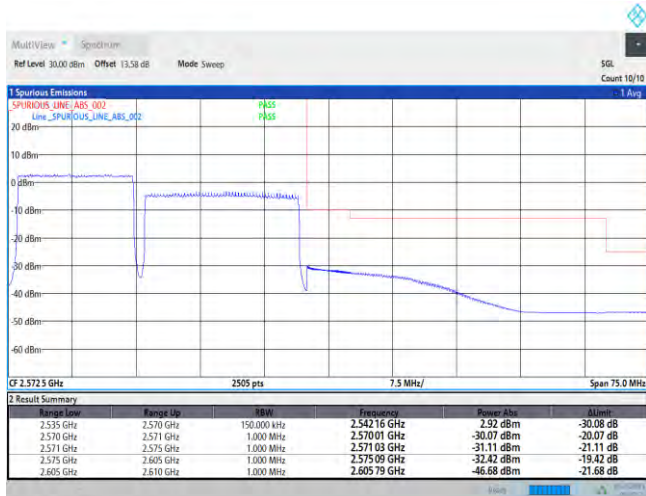
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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



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



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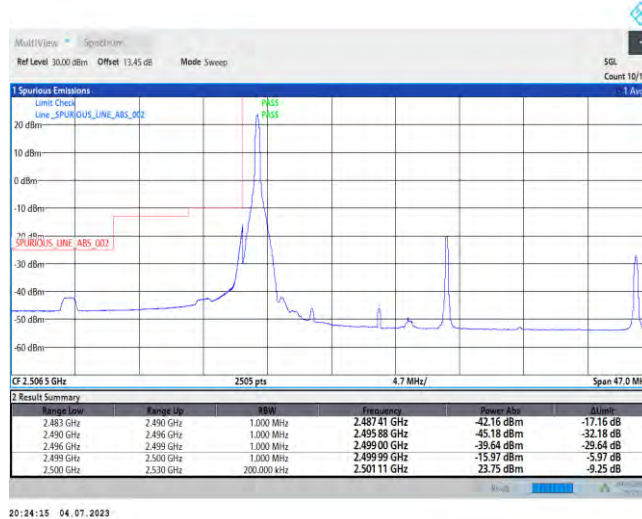


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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0



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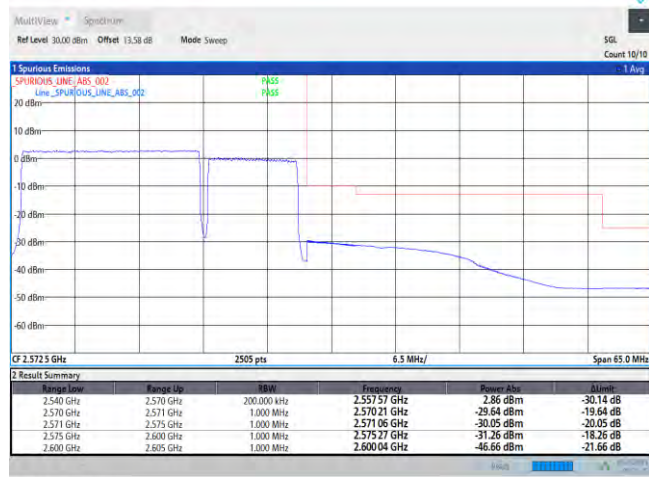
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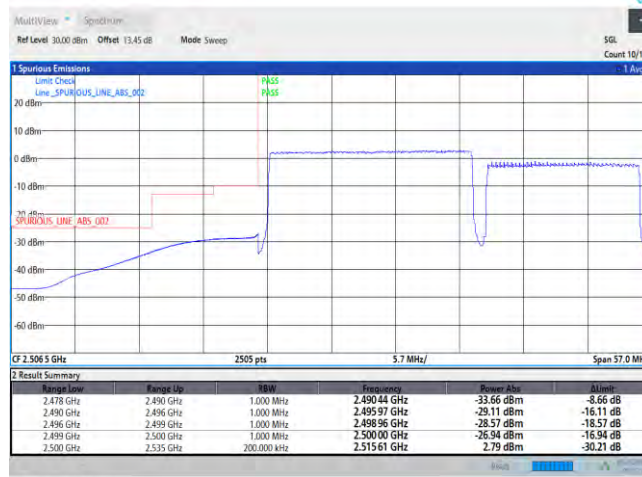


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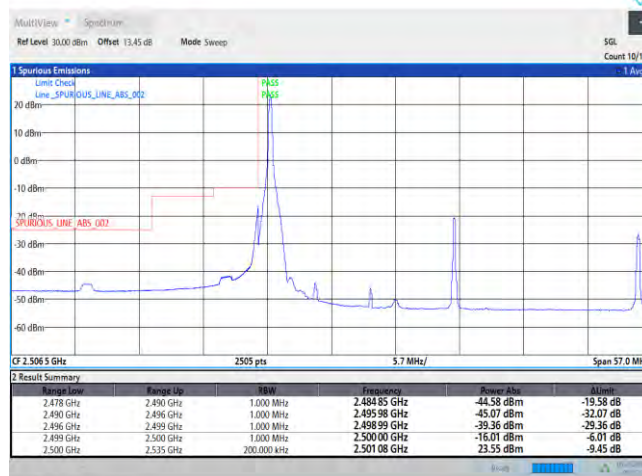
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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



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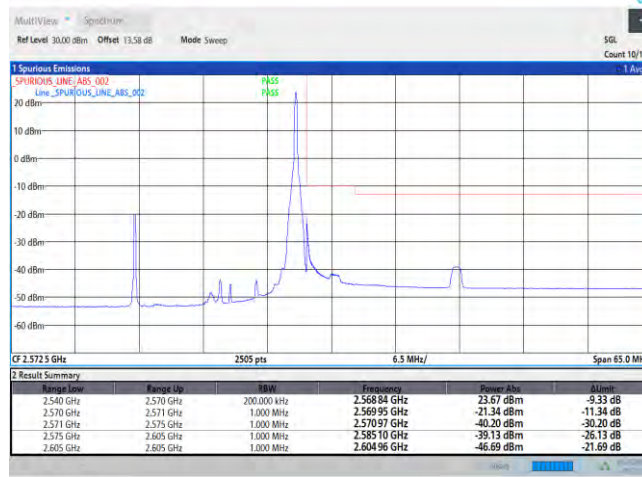
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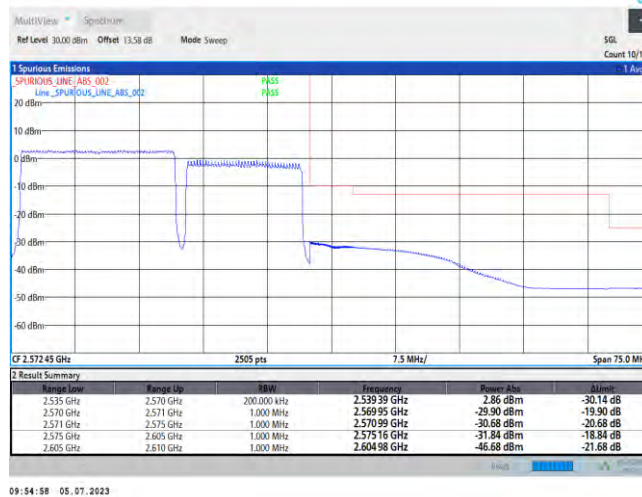


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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



09:54:58 05.07.2023

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



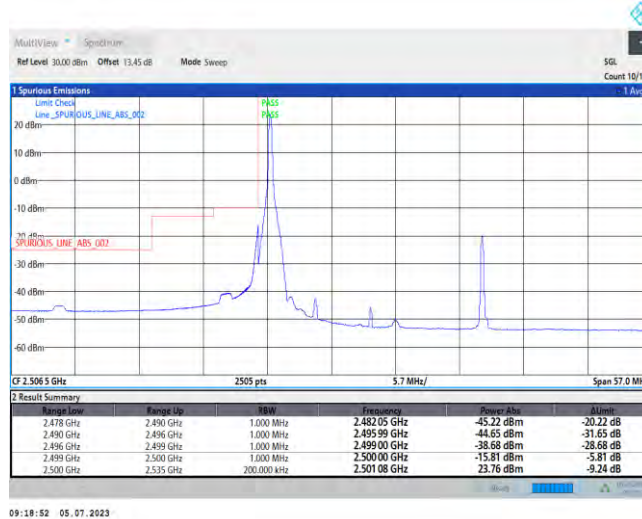
09:20:10 05.07.2023



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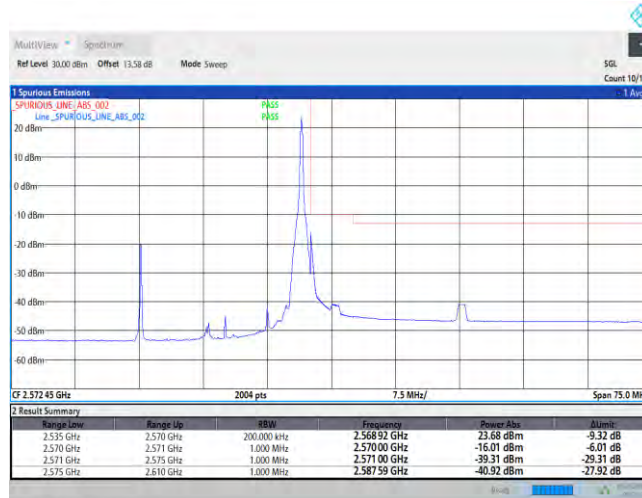
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



09:18:52 05.07.2023

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



09:57:00 05.07.2023



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



09:58:18 05.07.2023



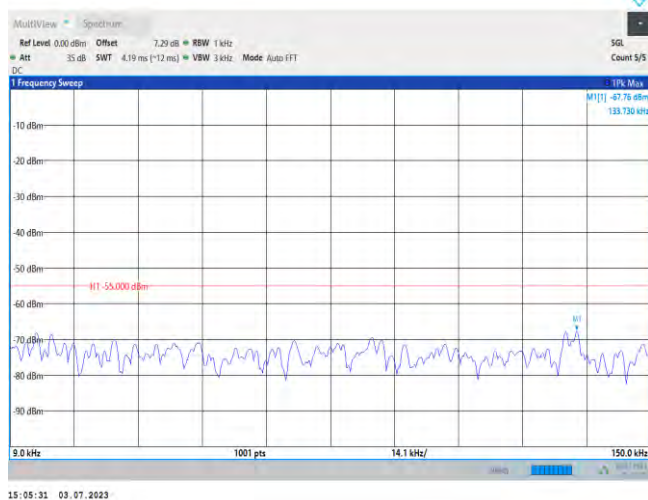
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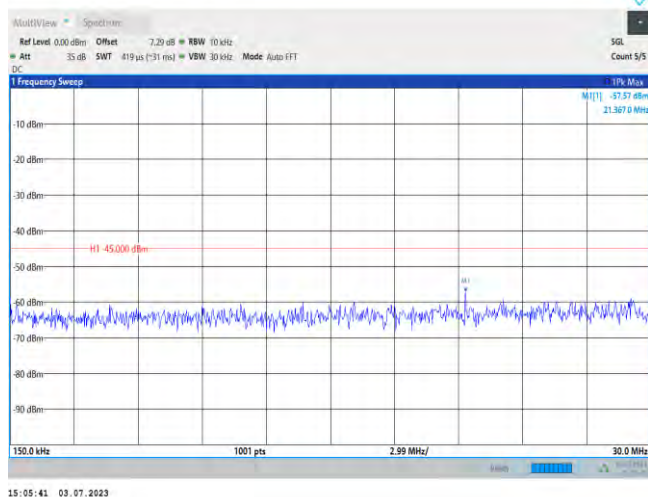
Conducted Spurious Emission

Test Graphs

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

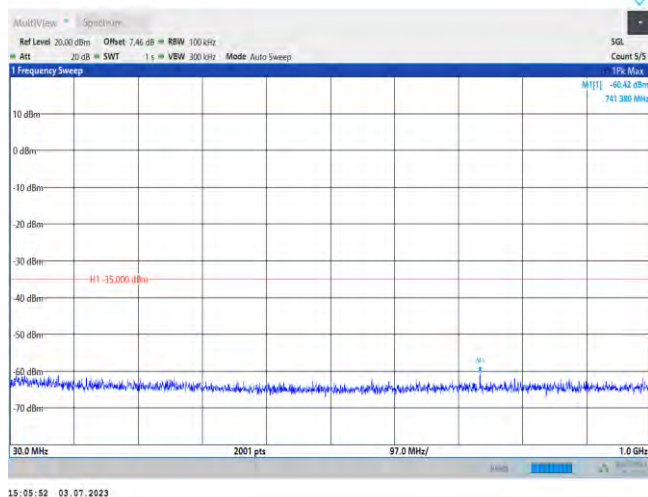


7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



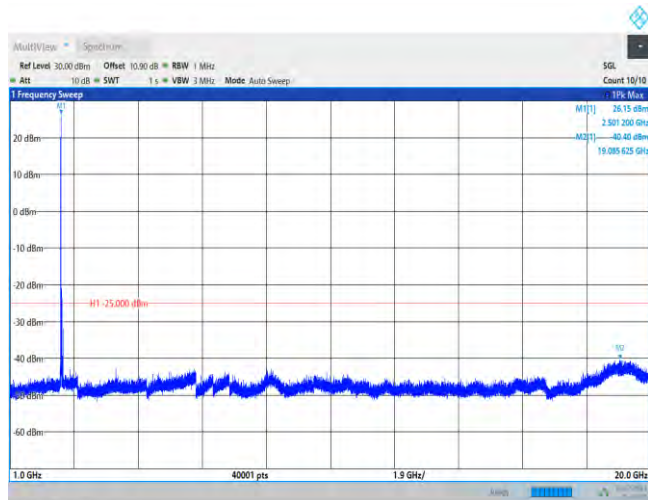
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



15:05:52 03.07.2023

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



15:06:10 03.07.2023

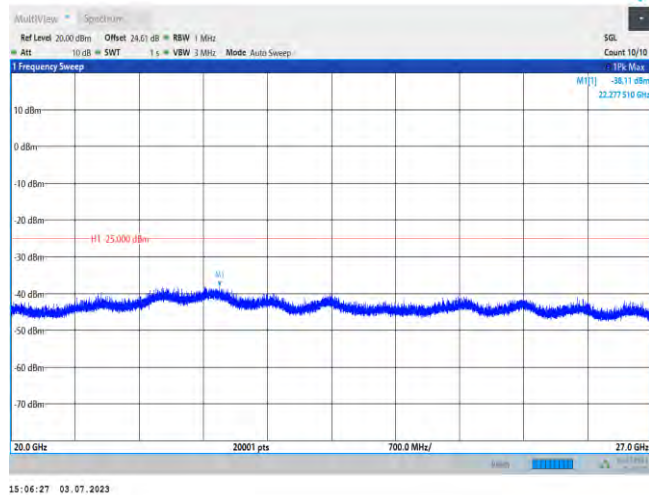


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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



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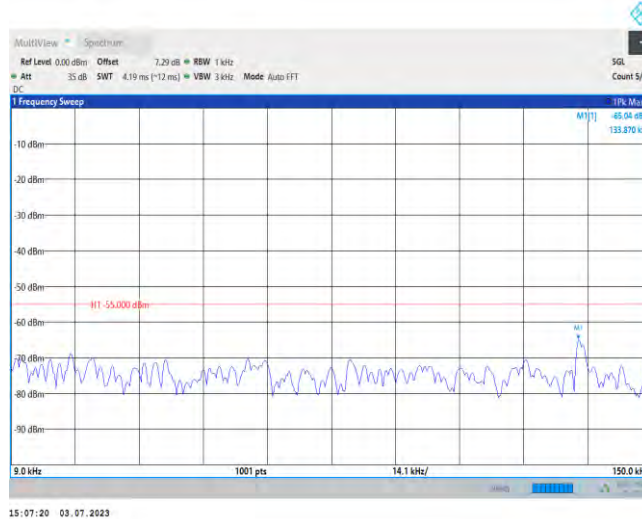


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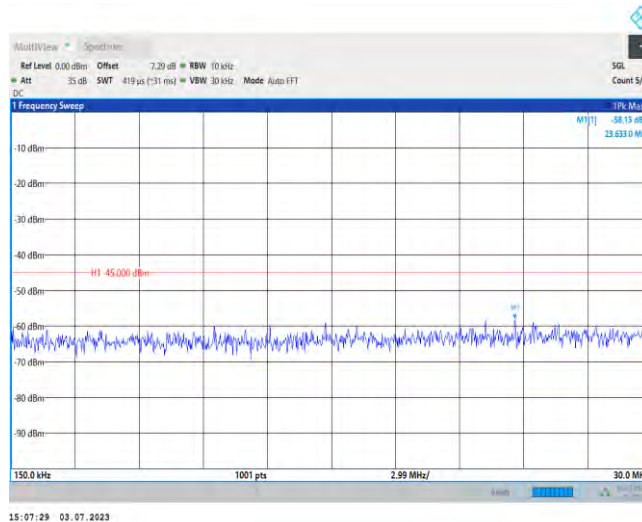
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



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

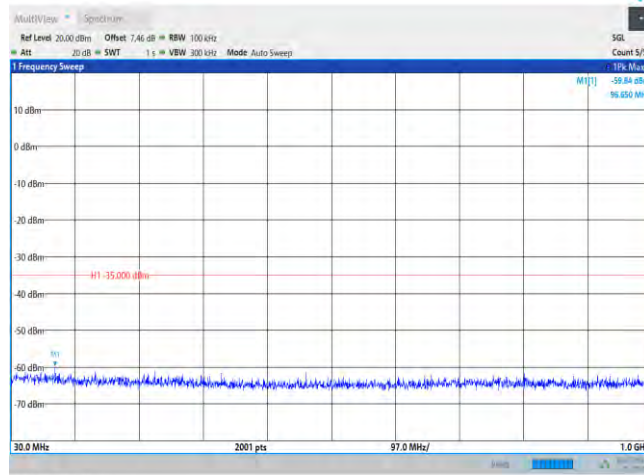


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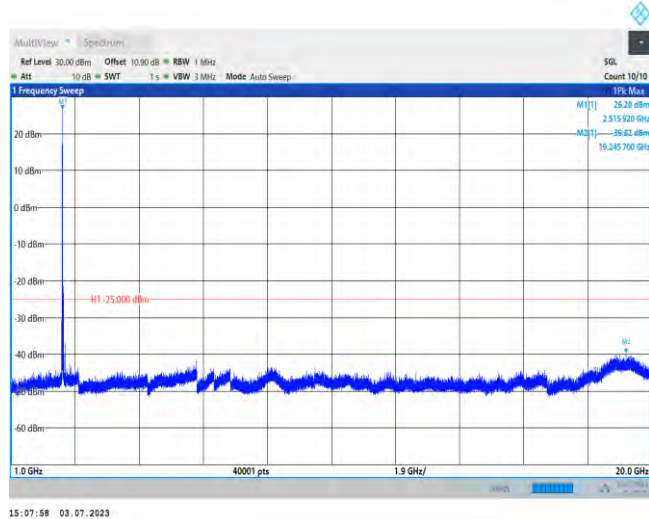
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



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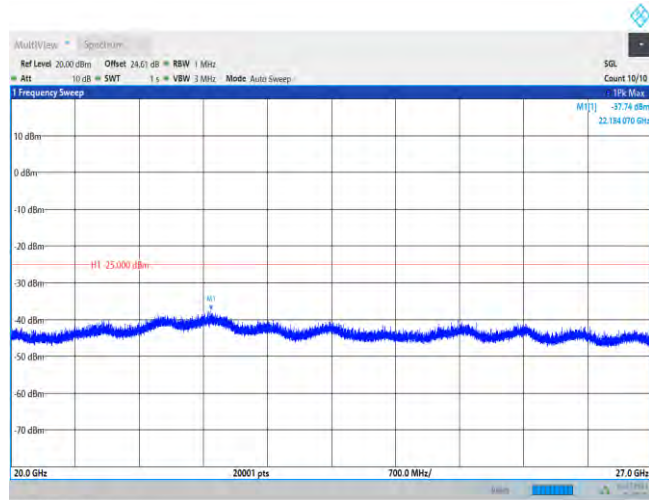
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



15:07:58 03.07.2023

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



15:08:16 03.07.2023



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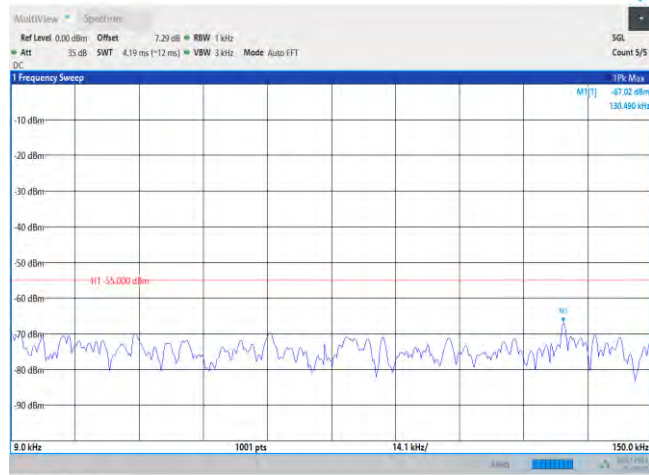
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Report No.: XEWM2306000327RG01

Rev.: 01

Page: 83 of 89

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

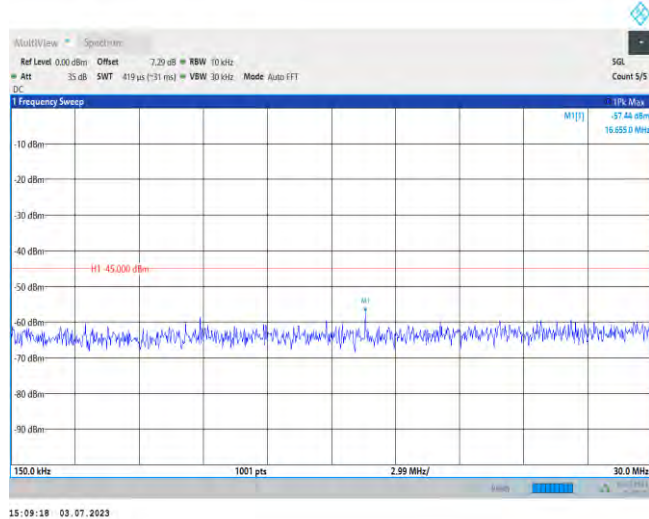


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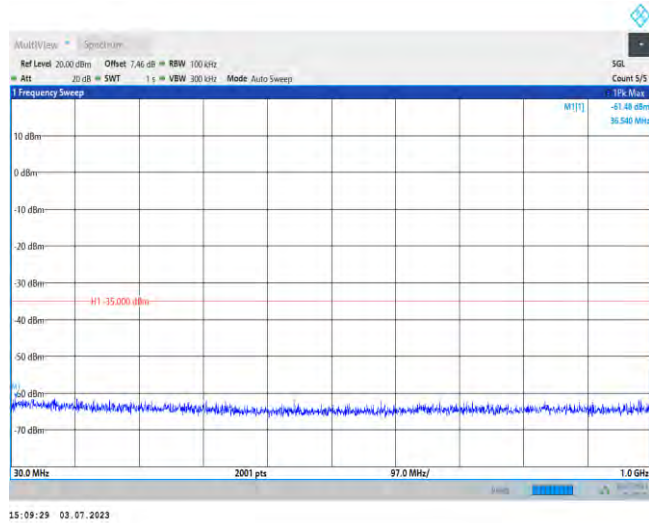
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



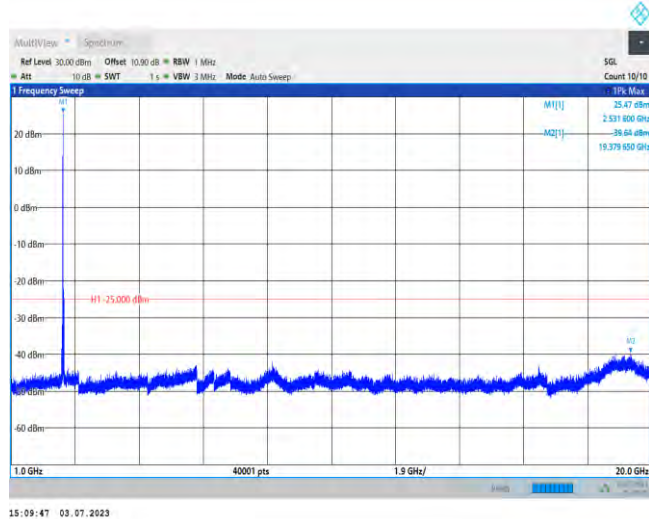
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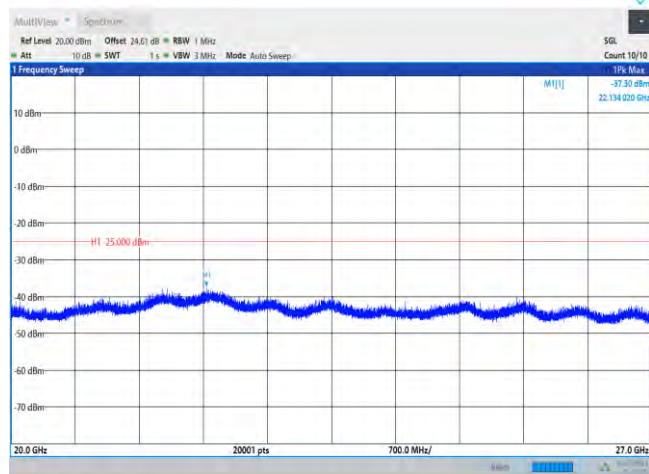
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



15:09:47 03.07.2023

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



15:10:04 03.07.2023



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Field Strength of Spurious Radiation

Test Band = LTE CA_7C_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	2993.3326	39.02	-21.78	28.56	-49.46	-25.00	24.46	221	58	Horizontal
2	5002.2801	48.13	-42.72	31.22	-58.63	-25.00	33.63	163	193	Horizontal
3	7355.5742	45.65	-38.55	36.52	-51.64	-25.00	26.64	332	86	Horizontal
4	9915.2766	43.75	-35.36	38.62	-48.25	-25.00	23.25	189	287	Horizontal
5	10961.7185	44.40	-37.15	40.14	-47.87	-25.00	22.87	226	104	Horizontal
6	16406.3363	42.43	-34.87	38.83	-48.87	-25.00	23.87	320	193	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	2995.1106	39.21	-21.78	28.57	-49.26	-25.00	24.26	245	218	Vertical
2	4185.6474	48.97	-43.65	29.54	-60.40	-25.00	35.40	229	279	Vertical
3	5002.2801	50.20	-42.72	31.22	-56.56	-25.00	31.56	332	341	Vertical
4	7420.3768	45.84	-38.28	36.74	-50.96	-25.00	25.96	221	292	Vertical
5	10940.7176	44.20	-37.25	40.16	-48.15	-25.00	23.15	189	300	Vertical
6	15190.0876	42.41	-35.68	39.76	-48.77	-25.00	23.77	221	243	Vertical



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Test Band = LTE CA_7C_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	2998.222	39.13	-21.77	28.59	-49.31	-25.00	24.31	228	128	Horizontal
2	3937.8375	48.79	-44.19	29.85	-60.81	-25.00	35.81	196	47	Horizontal
3	5192.4877	48.15	-42.55	31.88	-57.78	-25.00	32.78	346	345	Horizontal
4	7732.3893	45.25	-37.67	36.54	-51.14	-25.00	26.14	221	300	Horizontal
5	10932.9173	44.52	-37.28	40.17	-47.85	-25.00	22.85	109	180	Horizontal
6	13691.8277	43.84	-38.00	40.19	-49.23	-25.00	24.23	150	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	2998.8888	38.96	-21.77	28.59	-49.48	-25.00	24.48	378	46	Vertical
2	3919.2368	48.79	-44.19	29.78	-60.88	-25.00	35.88	241	160	Vertical
3	5032.2813	49.55	-42.66	31.46	-56.91	-25.00	31.91	110	345	Vertical
4	7370.5748	45.85	-38.46	36.58	-51.29	-25.00	26.29	361	318	Vertical
5	10947.3179	44.14	-37.22	40.15	-48.19	-25.00	23.19	221	269	Vertical
6	15188.2875	42.48	-35.75	39.77	-48.76	-25.00	23.76	299	192	Vertical



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Test Band = LTE CA_7C_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	2999.111	39.20	-21.77	28.59	-49.24	-25.00	24.24	249	137	Horizontal
2	3921.6369	49.24	-44.19	29.79	-60.42	-25.00	35.42	376	118	Horizontal
3	5124.685	48.38	-42.53	31.65	-57.76	-25.00	32.76	203	349	Horizontal
4	7857.7943	45.24	-37.66	36.75	-50.93	-25.00	25.93	199	65	Horizontal
5	10973.1189	44.16	-37.10	40.13	-48.07	-25.00	23.07	210	69	Horizontal
6	15183.4873	42.68	-35.94	39.80	-48.72	-25.00	23.72	178	327	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	2994.4438	39.26	-21.78	28.57	-49.21	-25.00	24.21	333	74	Vertical
2	3907.2363	49.02	-44.20	29.73	-60.71	-25.00	35.71	294	189	Vertical
3	5062.2825	51.24	-42.60	31.58	-55.04	-25.00	30.04	102	340	Vertical
4	7464.1786	45.67	-38.29	36.83	-51.05	-25.00	26.05	229	87	Vertical
5	11093.7237	44.71	-37.55	40.19	-47.91	-25.00	22.91	311	51	Vertical
6	15187.6875	42.67	-35.77	39.77	-48.59	-25.00	23.59	204	340	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	7.50	0.002970	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	4.90	0.001941	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	-5.90	-0.002337	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	50	19.10	0.007564	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	21.80	0.008633	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	30.40	0.012039	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	17.90	0.007089	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	15.60	0.006178	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	15.00	0.005940	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	17.60	0.006970	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	21.30	0.008435	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	7.10	0.002812	PASS

---End of Attachment---



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