

# Appendix B.18

## LTE CA\_7C



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant31:

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	22.35	24.65	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	20.71	23.01	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	22.15	24.45	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	20.58	22.88	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	22.27	24.57	33.00	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	20.57	22.87	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	21.94	24.24	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	19.71	22.01	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	21.40	23.70	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	19.84	22.14	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	21.80	24.10	33.00	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	19.74	22.04	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	20.71	23.01	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	19.71	22.01	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	20.48	22.78	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	19.57	21.87	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	20.36	22.66	33.00	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	19.76	22.06	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	22.78	25.08	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	20.64	22.94	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	22.63	24.93	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	20.92	23.22	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	22.81	25.11	33.00	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	20.87	23.17	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	21.91	24.21	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	19.91	22.21	33.00	PASS



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7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	21.62	23.92	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	19.95	22.25	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	21.92	24.22	33.00	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	19.80	22.10	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	21.04	23.34	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	19.99	22.29	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	20.49	22.79	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	19.89	22.19	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	20.85	23.15	33.00	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	19.97	22.27	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	22.47	24.77	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	20.56	22.86	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	22.41	24.71	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	21.04	23.34	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	22.42	24.72	33.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	21.02	23.32	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	21.87	24.17	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	19.75	22.05	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	21.78	24.08	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	20.14	22.44	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	21.71	24.01	33.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	19.73	22.03	33.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	20.85	23.15	33.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	19.69	21.99	33.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	20.38	22.68	33.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	20.10	22.40	33.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	20.67	22.97	33.00	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	19.66	21.96	33.00	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	22.18	24.48	33.00	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	20.62	22.92	33.00	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	22.26	24.56	33.00	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	20.78	23.08	33.00	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	22.45	24.75	33.00	PASS



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7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	20.94	23.24	33.00	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	22.02	24.32	33.00	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	19.55	21.85	33.00	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	21.55	23.85	33.00	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	19.96	22.26	33.00	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	21.59	23.89	33.00	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	19.77	22.07	33.00	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	20.85	23.15	33.00	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	19.70	22.00	33.00	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	20.54	22.84	33.00	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	19.88	22.18	33.00	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	20.43	22.73	33.00	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	19.86	22.16	33.00	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	22.48	24.78	33.00	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	20.68	22.98	33.00	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	22.60	24.90	33.00	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	20.63	22.93	33.00	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	22.76	25.06	33.00	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	20.75	23.05	33.00	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	22.21	24.51	33.00	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	19.90	22.20	33.00	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	21.62	23.92	33.00	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	20.10	22.40	33.00	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	21.75	24.05	33.00	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	19.92	22.22	33.00	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	21.02	23.32	33.00	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	19.97	22.27	33.00	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	20.55	22.85	33.00	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	20.07	22.37	33.00	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	20.69	22.99	33.00	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	19.73	22.03	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	22.41	24.71	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	20.57	22.87	33.00	PASS



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7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	22.32	24.62	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	20.75	23.05	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	22.32	24.62	33.00	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	20.65	22.95	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	22.17	24.47	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	19.71	22.01	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	21.63	23.93	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	19.78	22.08	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	21.82	24.12	33.00	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	19.75	22.05	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	20.70	23.00	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	19.63	21.93	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	20.54	22.84	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	19.87	22.17	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	20.82	23.12	33.00	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	19.74	22.04	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	20.53	22.83	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	22.14	24.44	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	20.85	23.15	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	21.99	24.29	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	20.79	23.09	33.00	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	21.80	24.10	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	19.55	21.85	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	21.51	23.81	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	19.64	21.94	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	21.46	23.76	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	19.43	21.73	33.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	21.44	23.74	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	19.36	21.66	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	20.27	22.57	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	19.77	22.07	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	20.32	22.62	33.00	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	19.74	22.04	33.00	PASS



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7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	20.33	22.63	33.00	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	21001-21199	100RB#0-100RB#0	7.94	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	7.86	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	8.30	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	8.32	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	8.32	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	8.32	13	PASS

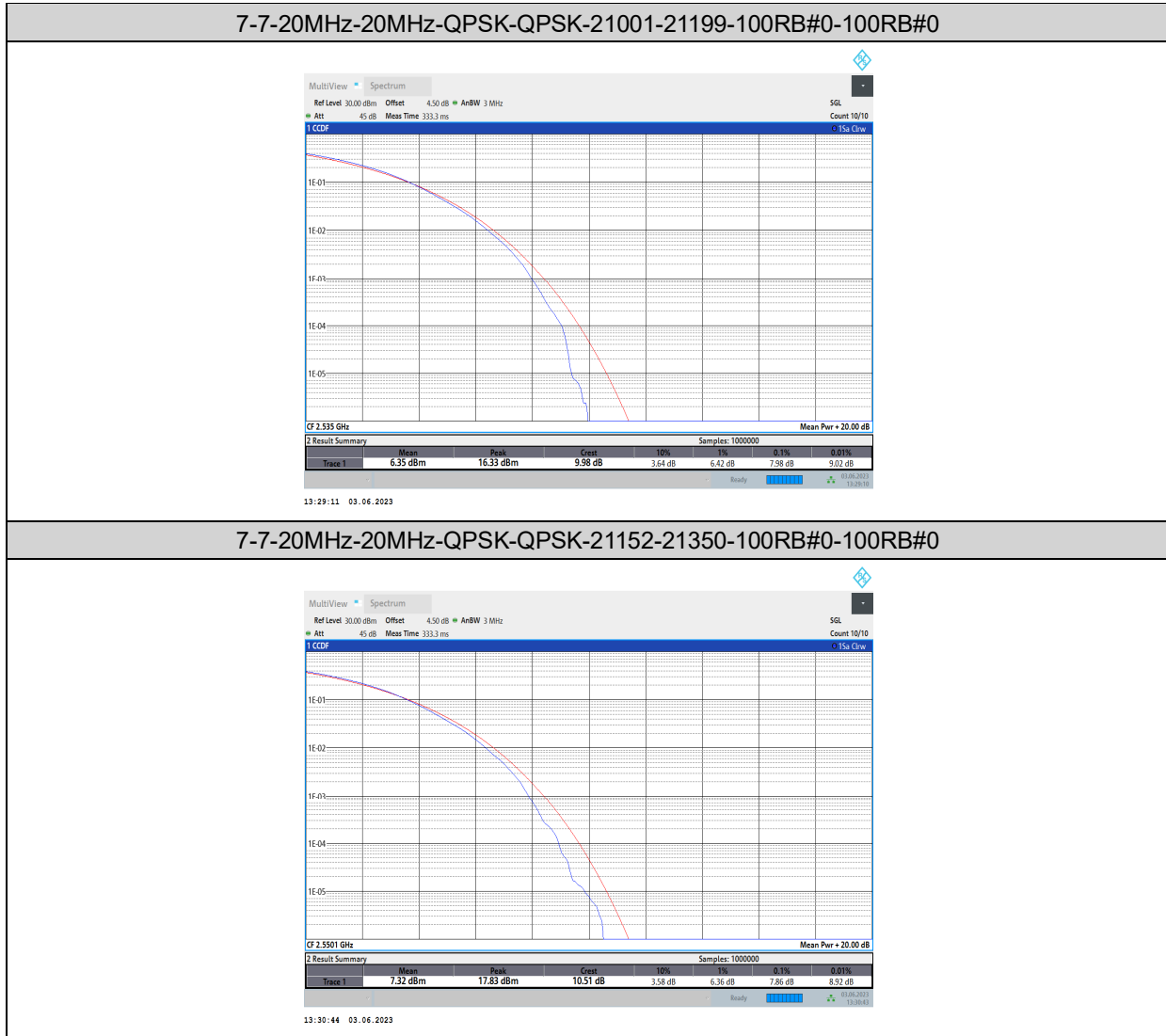


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Test Graphs



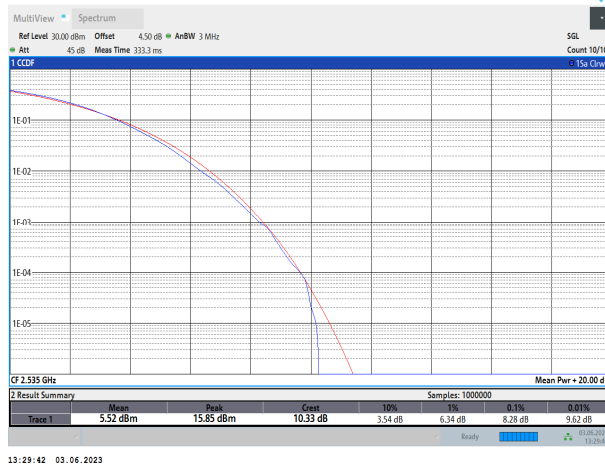
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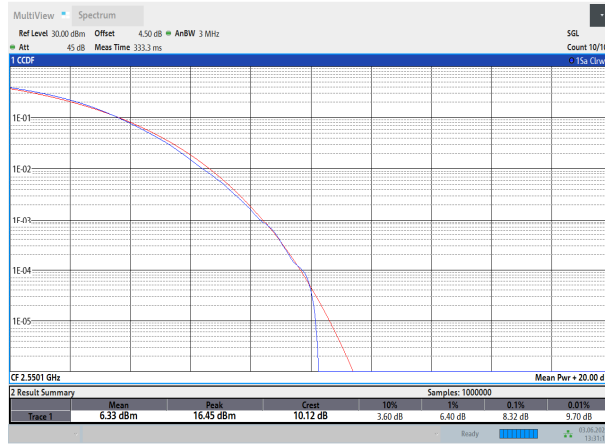


7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



13:29:42 03.06.2023

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



13:31:14 03.06.2023

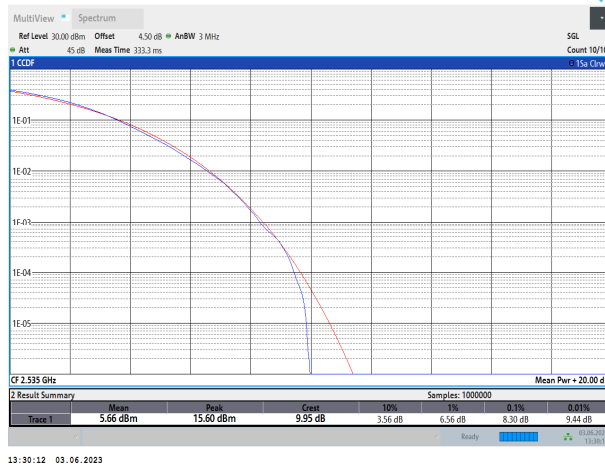


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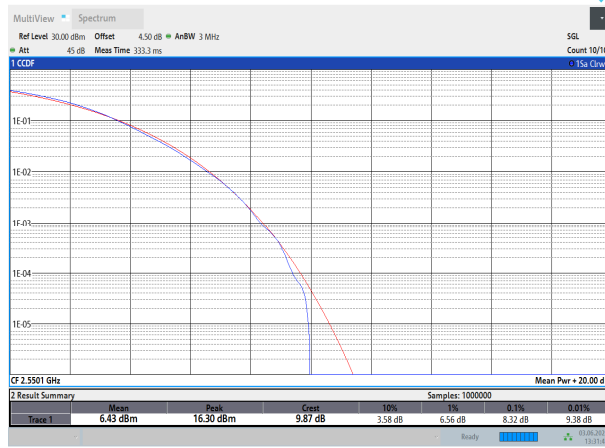
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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



13:30:12 03.06.2023

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



13:31:45 03.06.2023



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## Modulation Characteristics

### Test Result

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

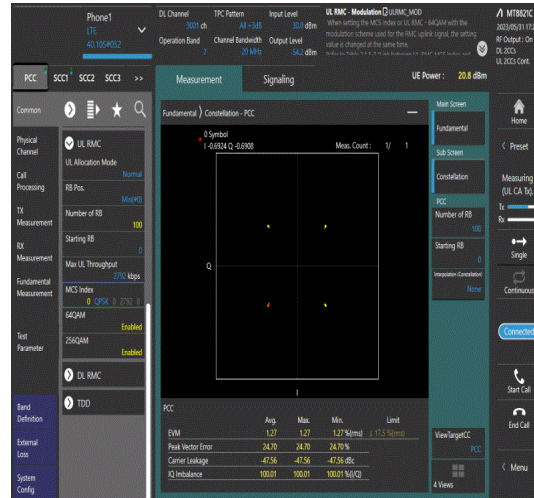


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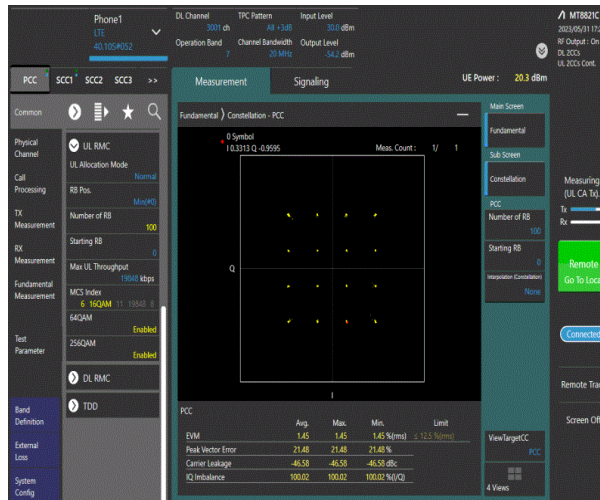
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Test Graphs

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



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

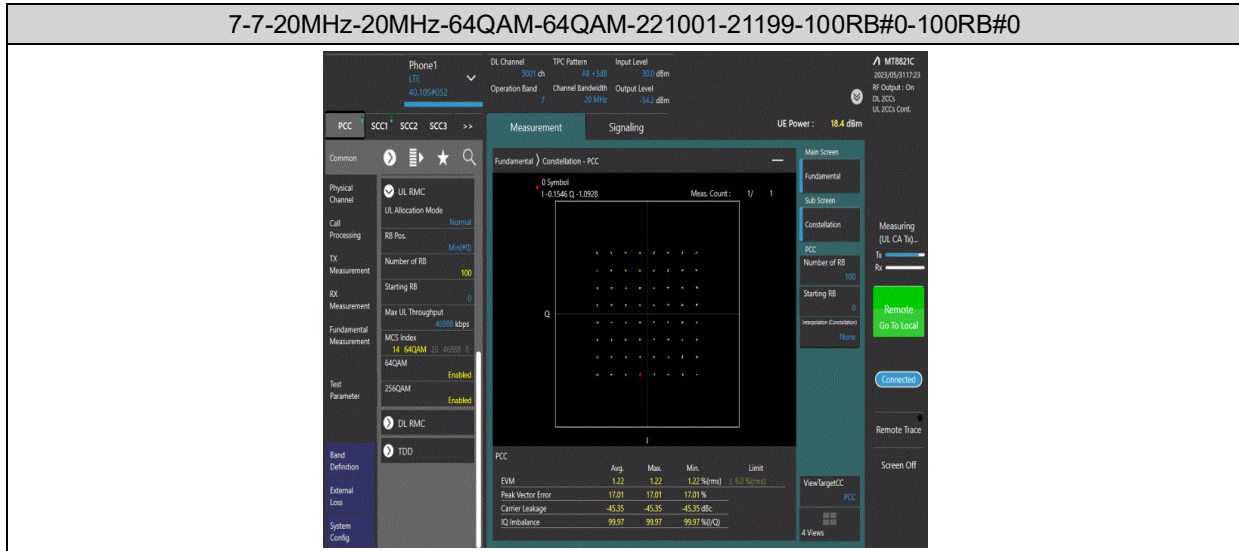


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7-7-20MHz-20MHz-64QAM-64QAM-221001-21199-100RB#0-100RB#0



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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	27.591	29.28	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.645	29.22	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.595	29.22	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.579	29.10	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.6	29.10	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.68	29.10	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.476	29.16	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.514	29.16	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	27.545	29.10	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.074	24.60	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.047	24.55	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.108	24.70	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.055	24.55	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.04	24.65	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	23.012	24.65	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.212	30.00	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.195	29.94	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.282	30.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.28	29.94	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.177	29.88	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	28.171	29.88	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.556	34.30	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.491	34.37	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.599	34.37	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.542	34.30	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.519	34.30	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	32.385	34.23	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.794	29.52	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.652	29.46	PASS



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7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.752	29.40	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.593	29.22	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.702	29.52	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	27.528	29.40	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.574	34.58	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.559	34.51	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.571	34.44	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.581	34.44	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.45	34.37	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	32.425	34.37	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.719	40.56	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.723	40.48	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.707	40.24	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.718	40.24	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.528	40.16	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	37.561	40.24	PASS

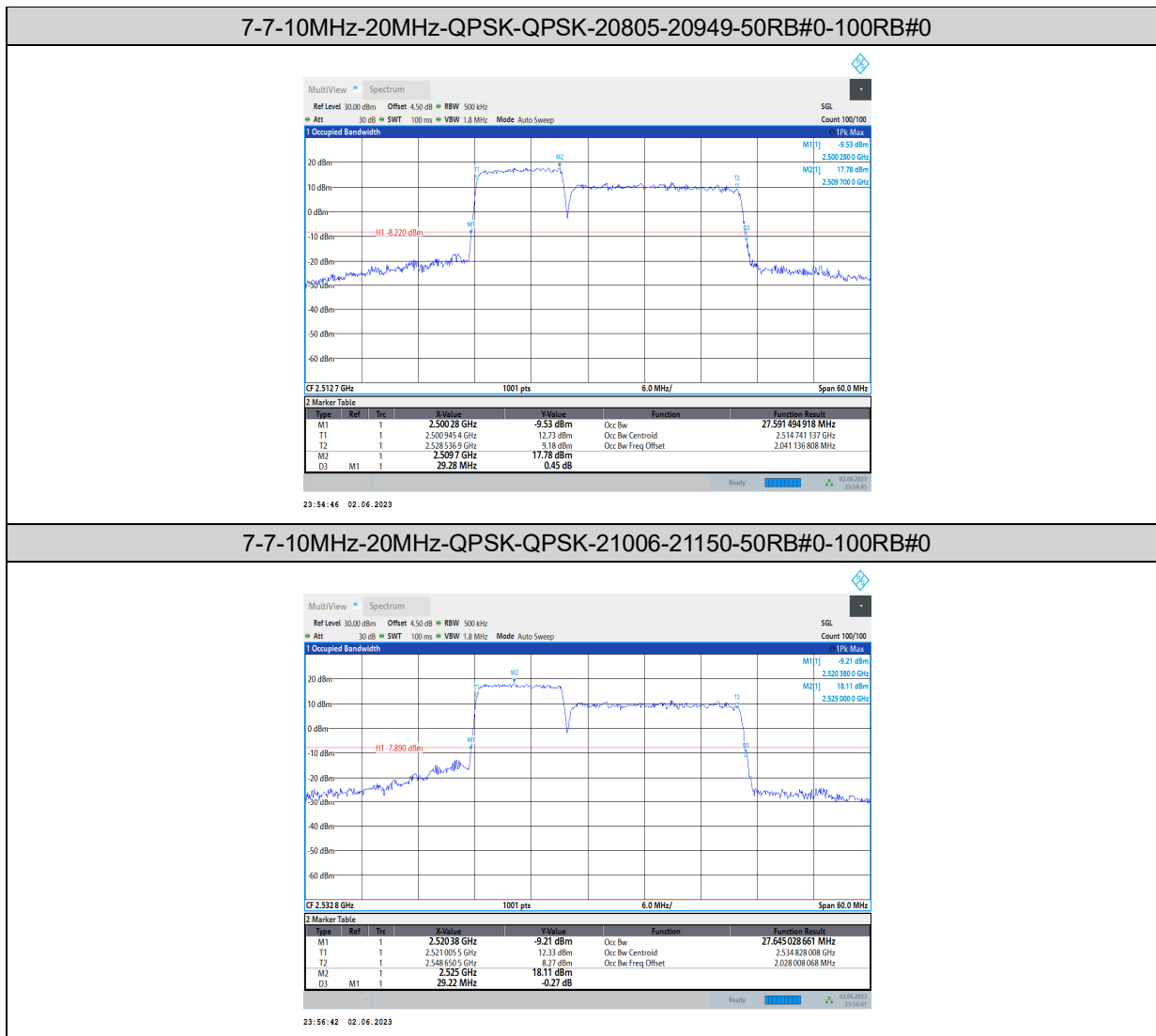


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Test Graphs



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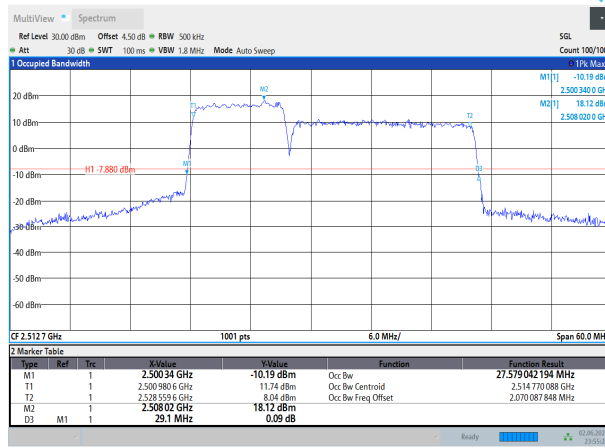


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23:58:38 02.06.2023

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



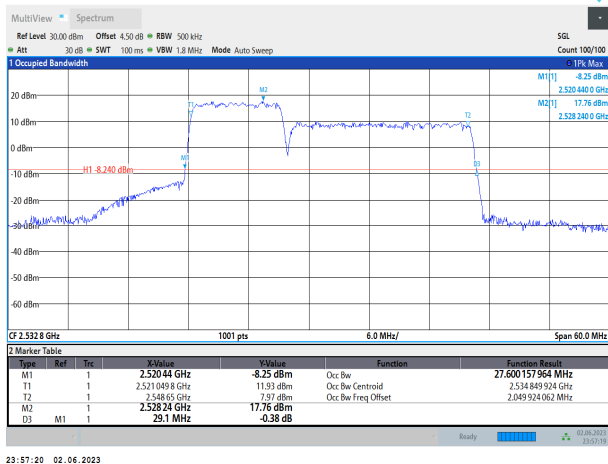
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23:57:20 02.06.2023

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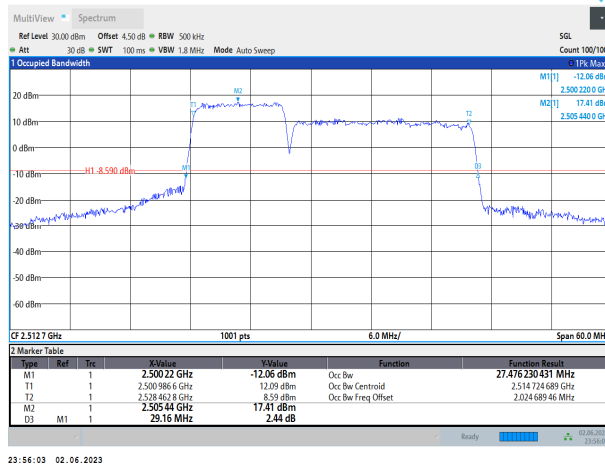
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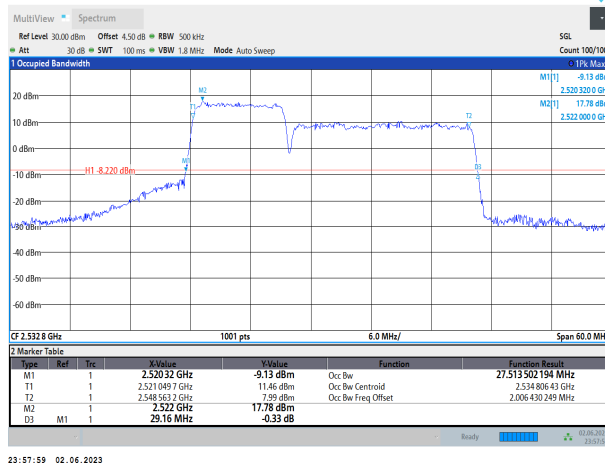
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7-7-10MHz-20MHz-64QAM-64QAM-20805-20949-50RB#0-100RB#0



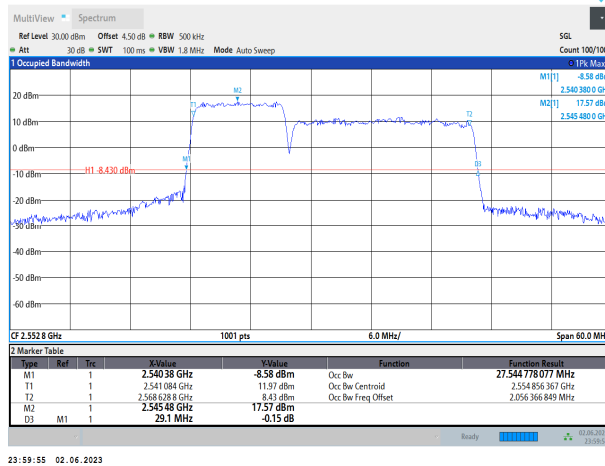
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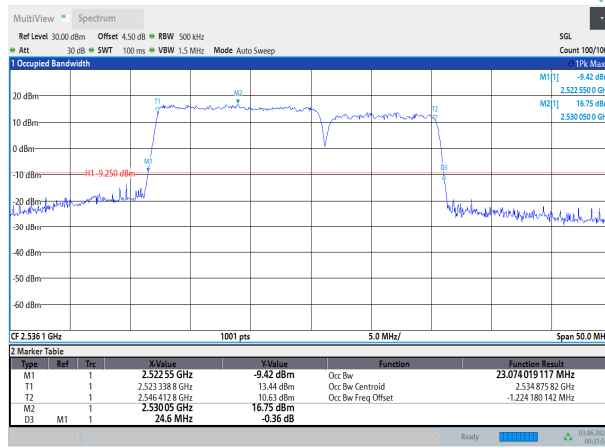
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7-7-10MHz-20MHz-64QAM-64QAM-21206-21350-50RB#0-100RB#0



23:59:55 02.06.2023

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



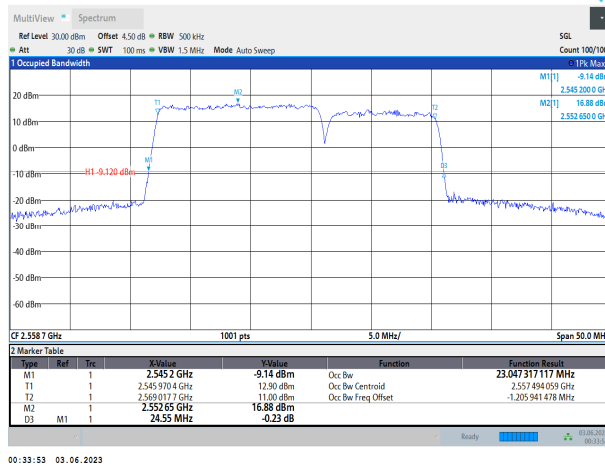
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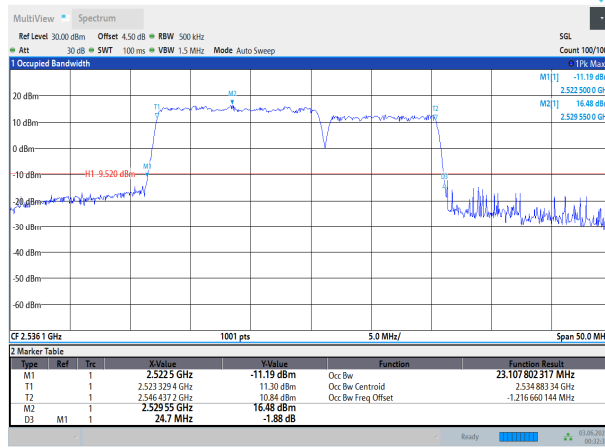
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



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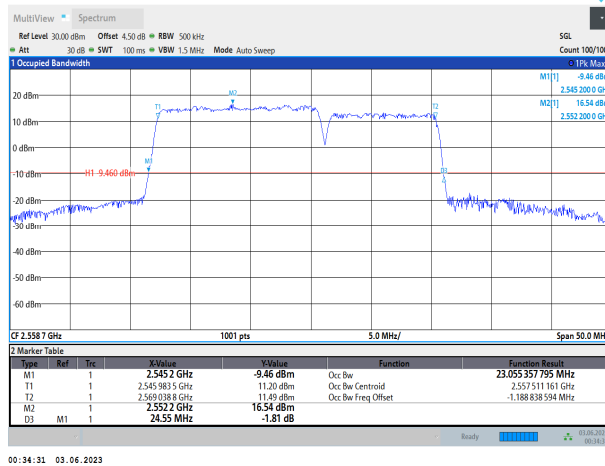
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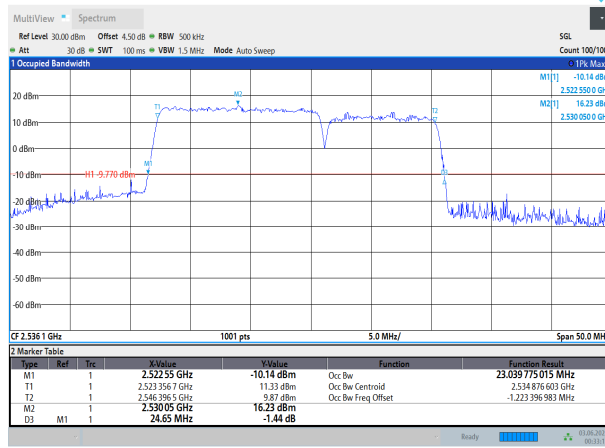
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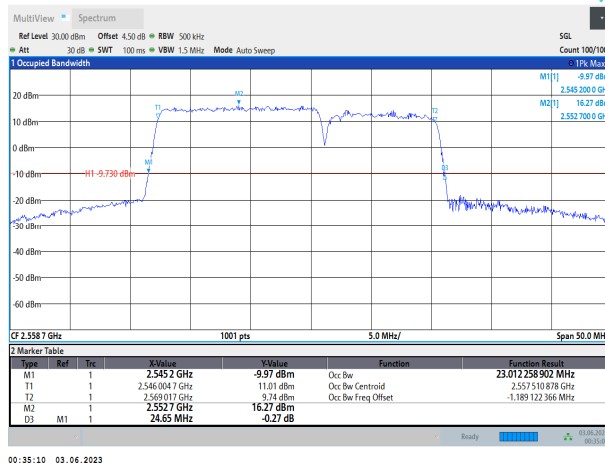


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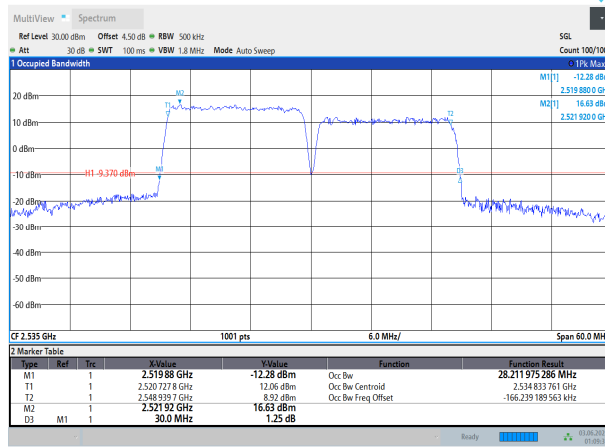
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00:35:10 03.06.2023

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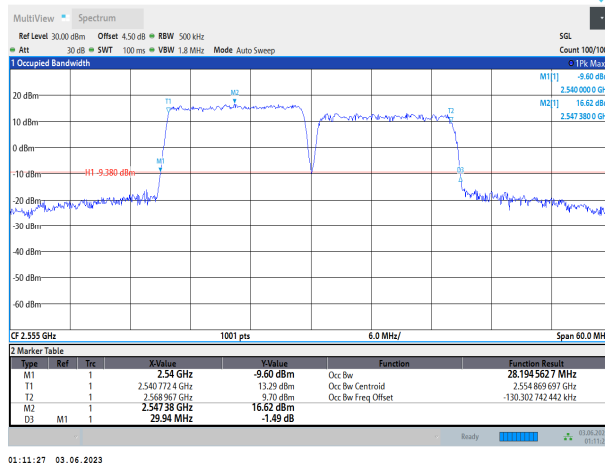
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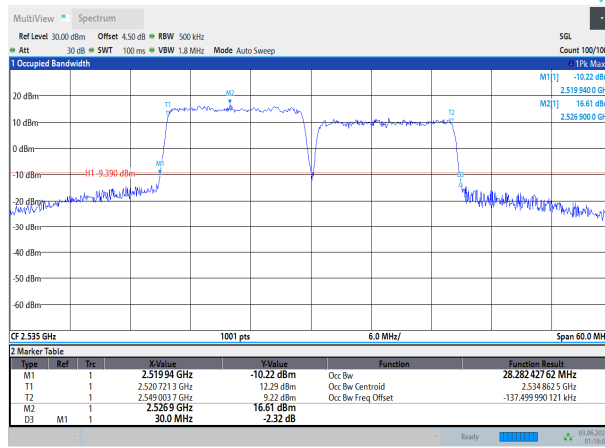
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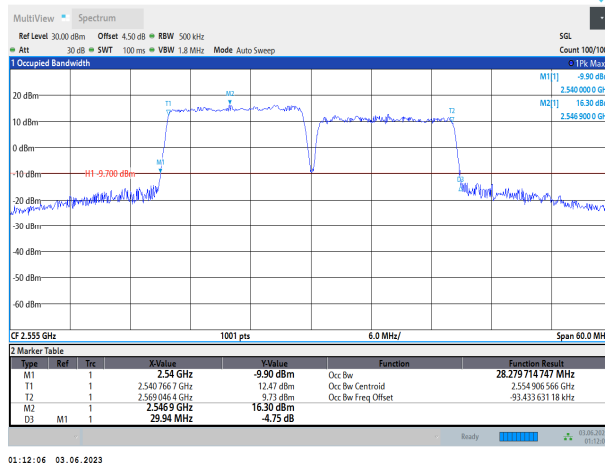


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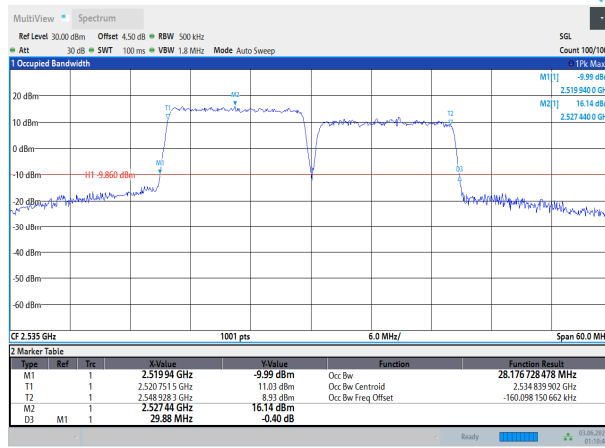


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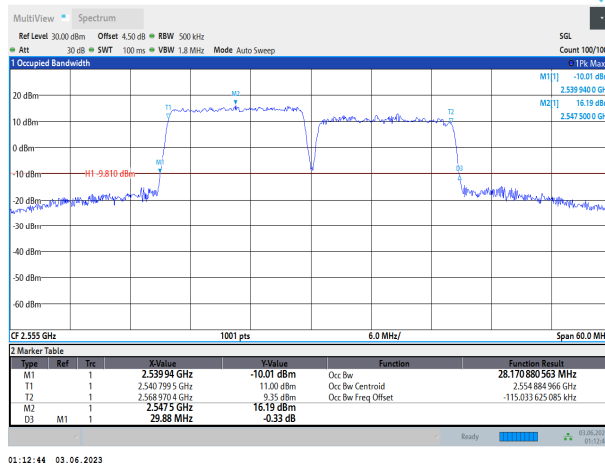


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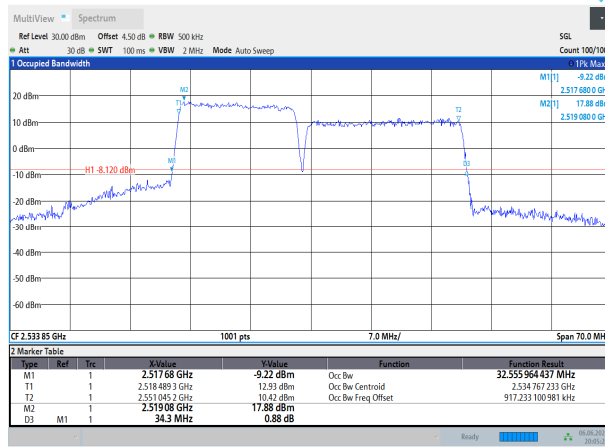
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01:12:44 03.06.2023

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



20:05:23 06.06.2023



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



20:07:19 06.06.2023

7-7-15MHz-20MHz-16QAM-16QAM-21003-21174-75RB#0-100RB#0



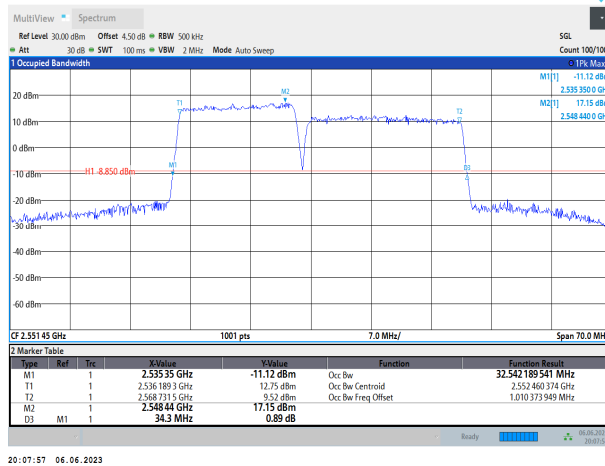
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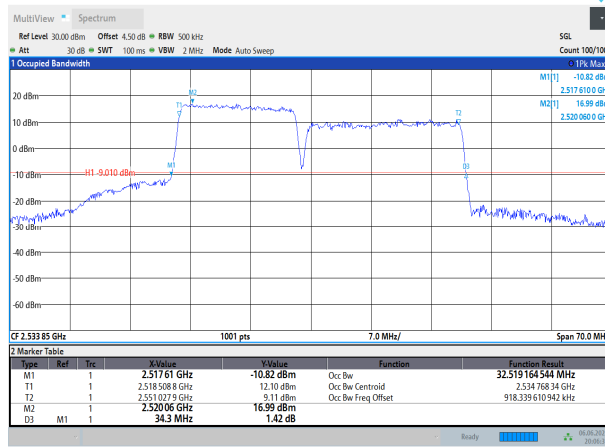
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7-7-15MHz-20MHz-16QAM-16QAM-21179-21350-75RB#0-100RB#0



20:07:57 06.06.2023

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20:06:40 06.06.2023

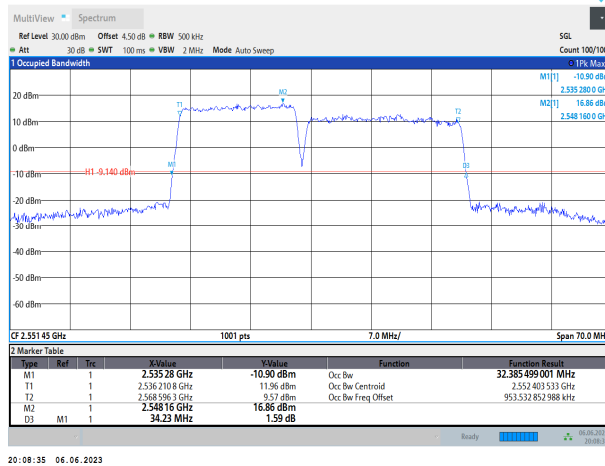


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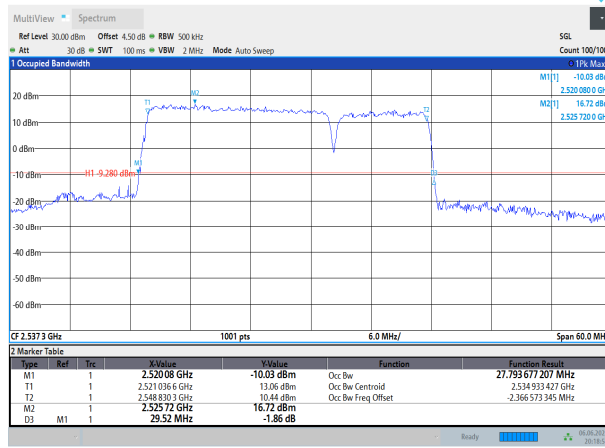
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7-7-15MHz-20MHz-64QAM-64QAM-21179-21350-75RB#0-100RB#0



20:08:35 06.06.2023

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



20:18:58 06.06.2023



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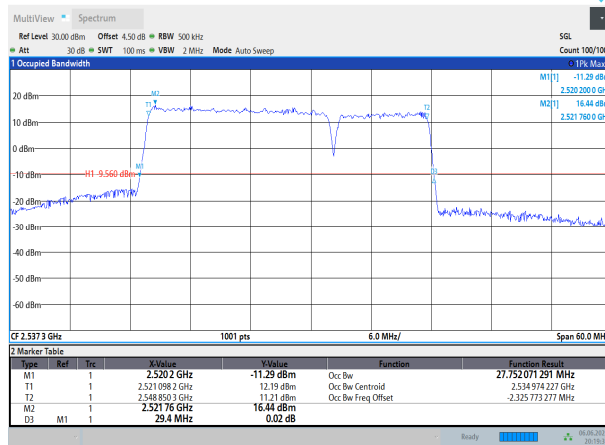
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



20:20:54 06.06.2023

7-7-20MHz-10MHz-16QAM-16QAM-21051-21195-100RB#0-50RB#0



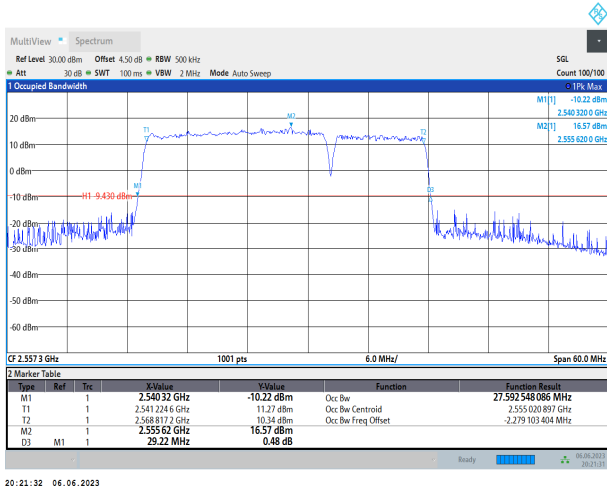
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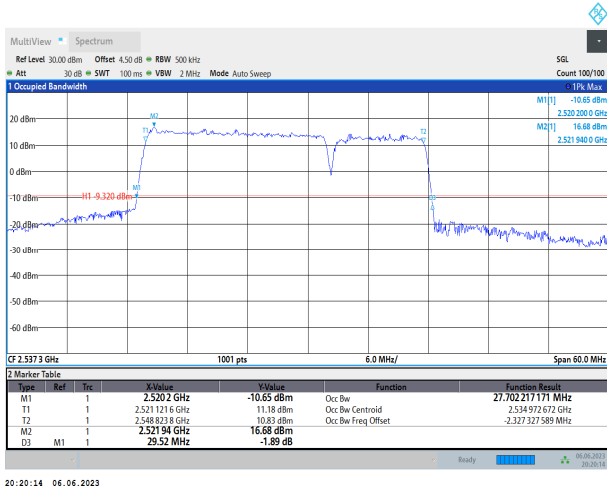
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7-7-20MHz-10MHz-16QAM-16QAM-21251-21395-100RB#0-50RB#0



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

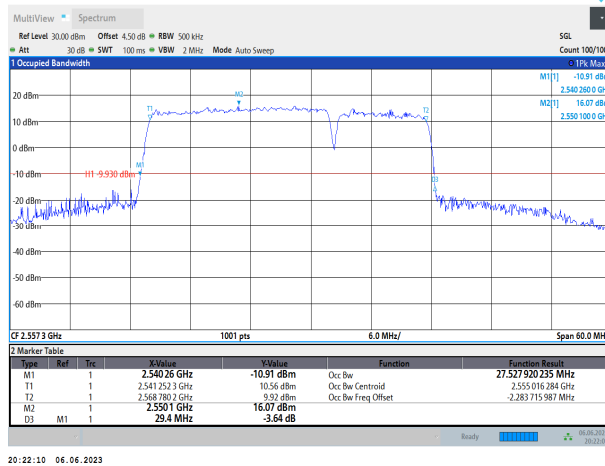


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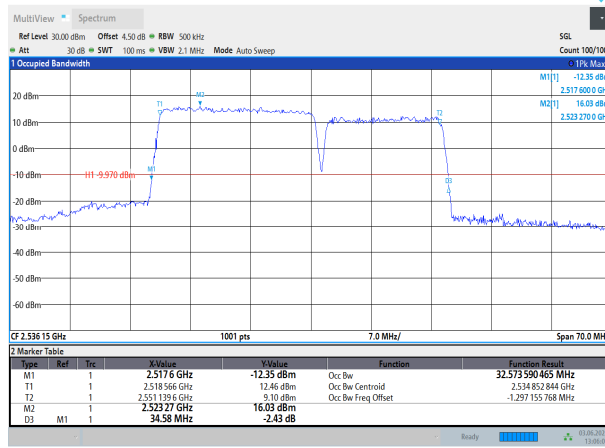
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7-7-20MHz-10MHz-64QAM-64QAM-21251-21395-100RB#0-50RB#0



20:22:10 06.06.2023

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



13:06:10 03.06.2023

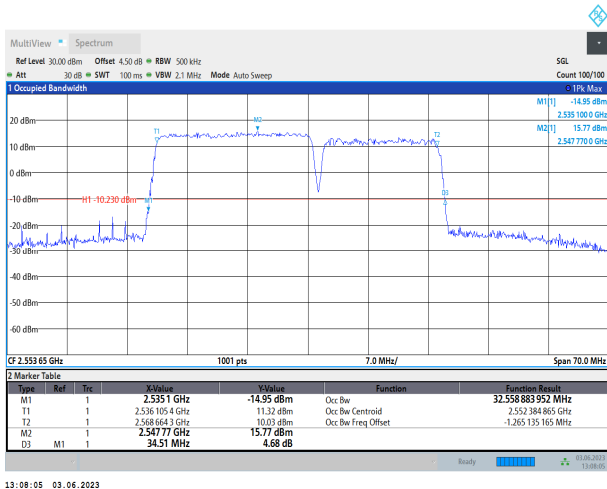


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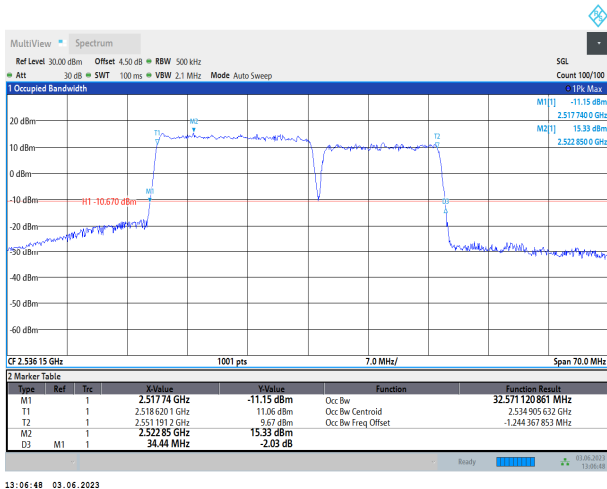


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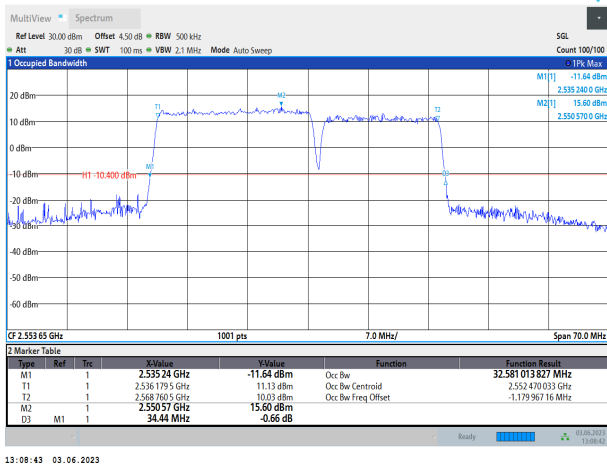
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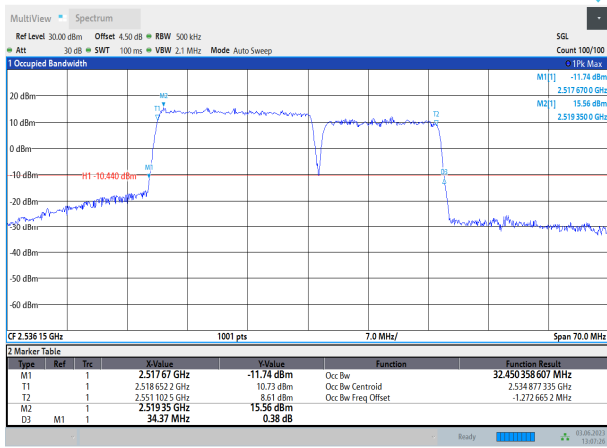
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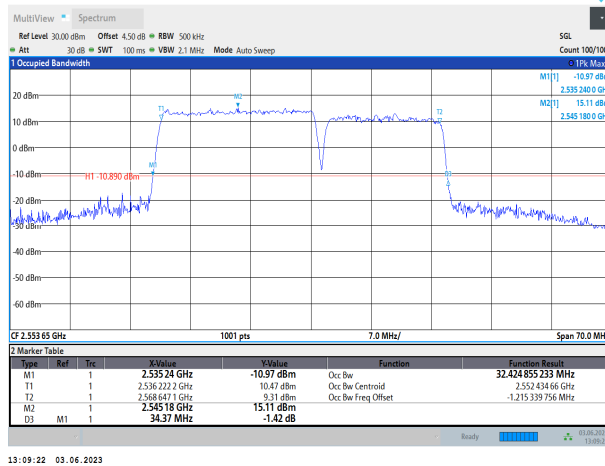
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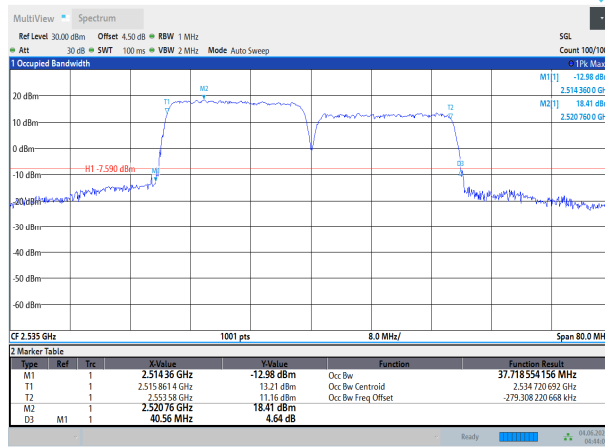
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13:09:22 03.06.2023

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



04:44:02 04.06.2023

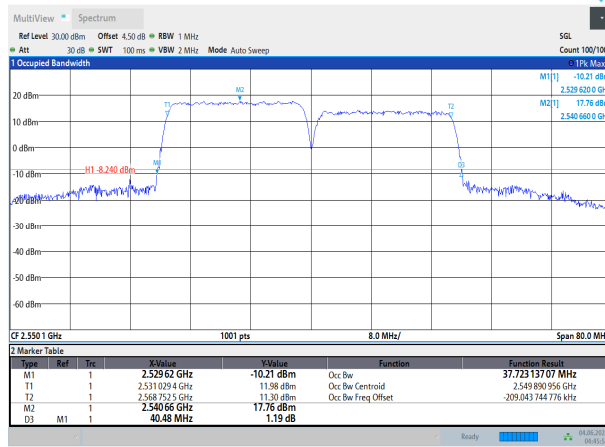


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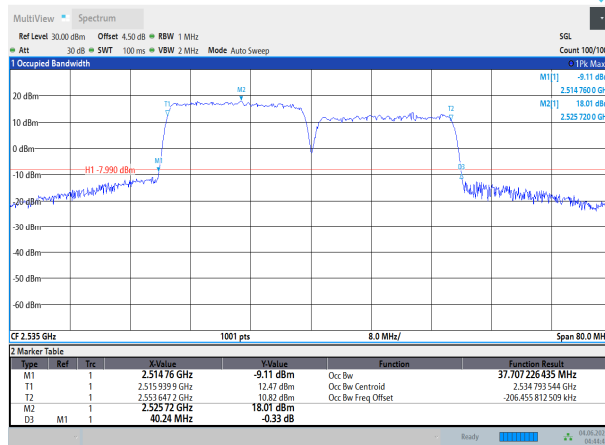
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



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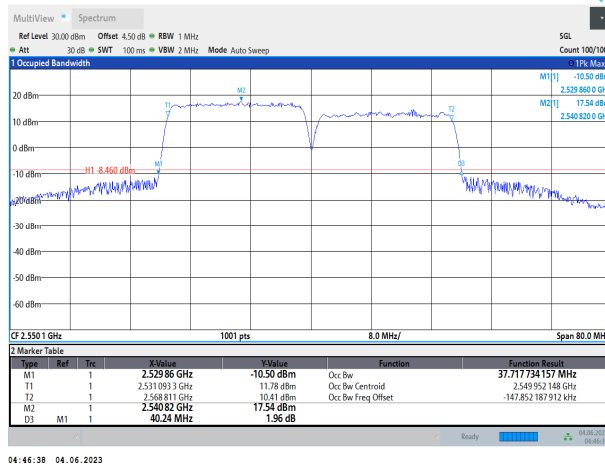
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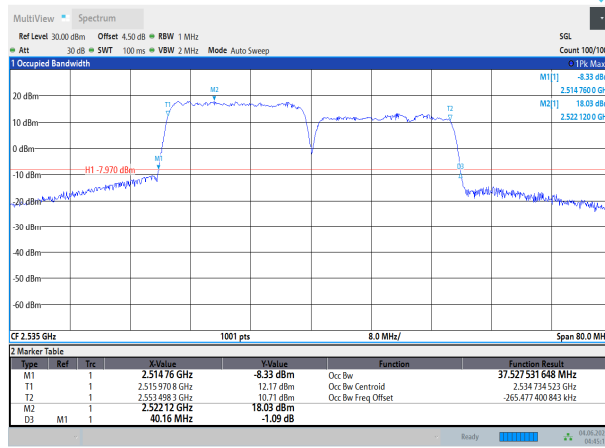
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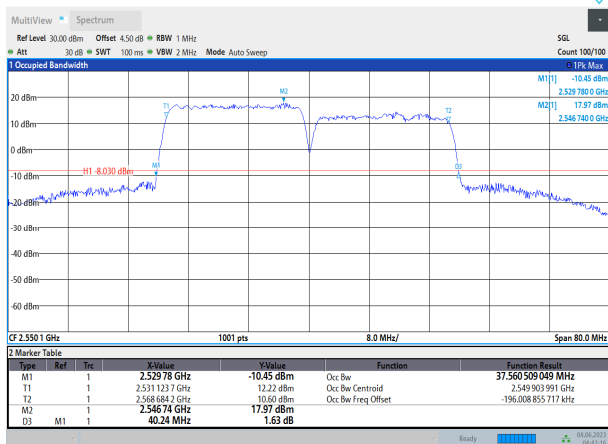


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7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



04:47:17 04.06.2023



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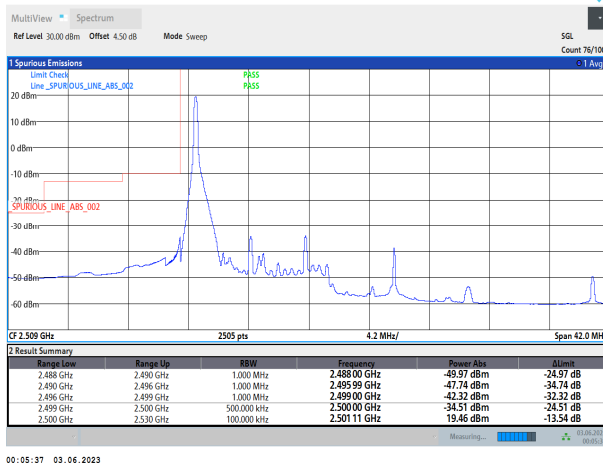
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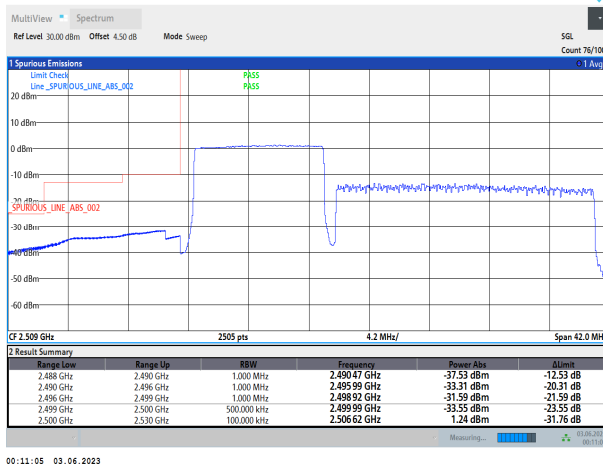
## Band Edge

## Test Graphs

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



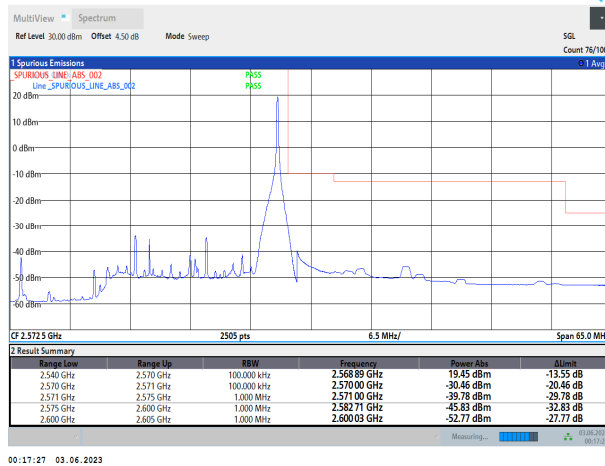
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



00:17:27 03.06.2023

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



00:22:54 03.06.2023



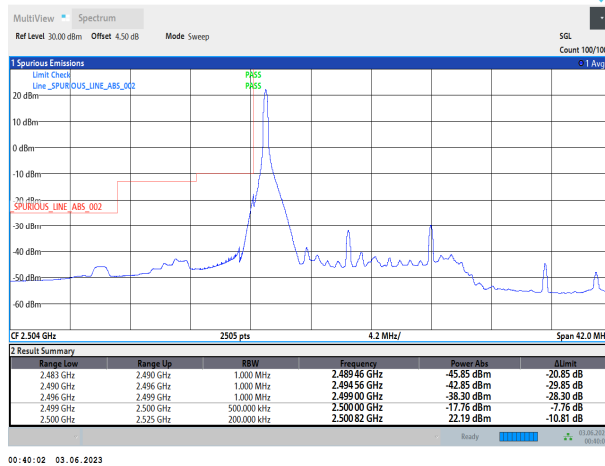
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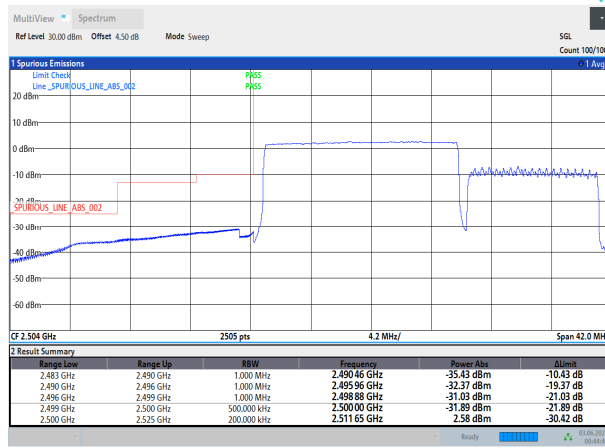


7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



00:40:02 03.06.2023

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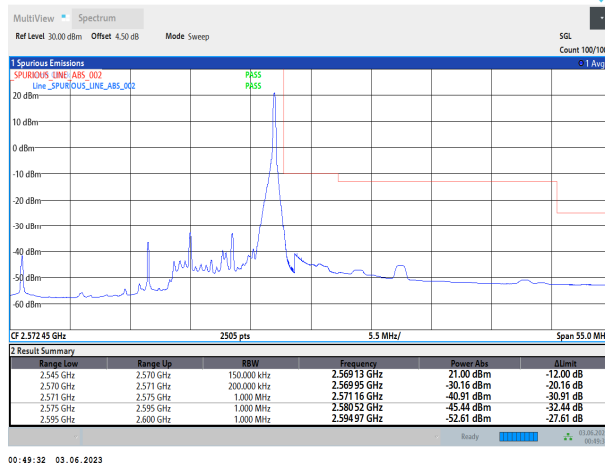


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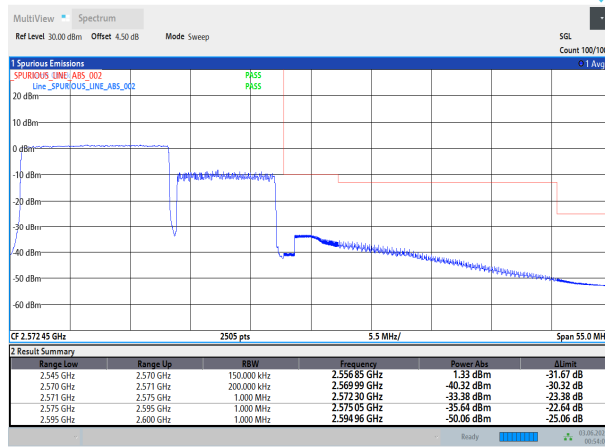
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



00:49:32 03.06.2023

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



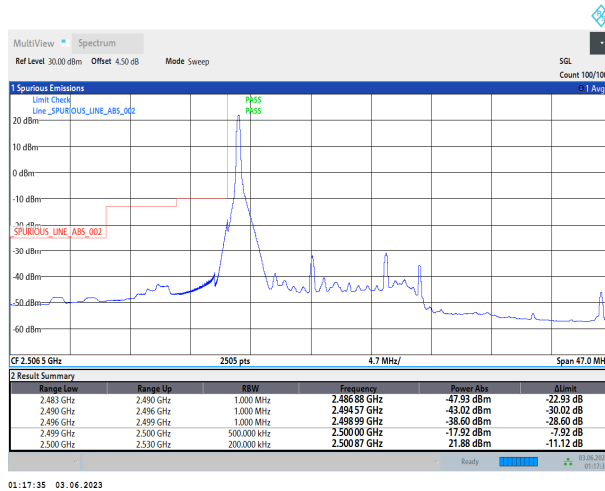
00:54:09 03.06.2023



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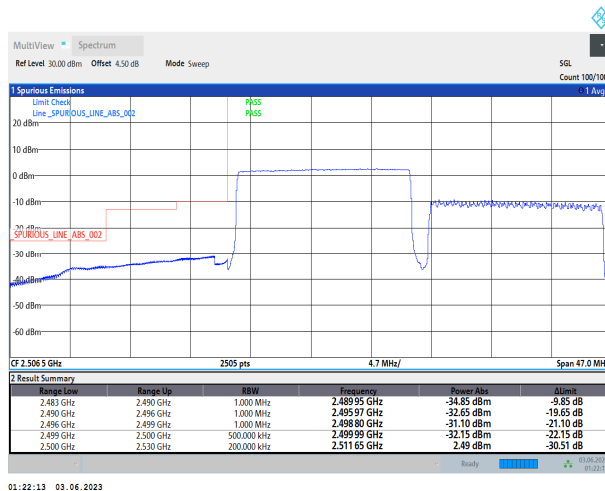
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.7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



01:17:35 03.06.2023

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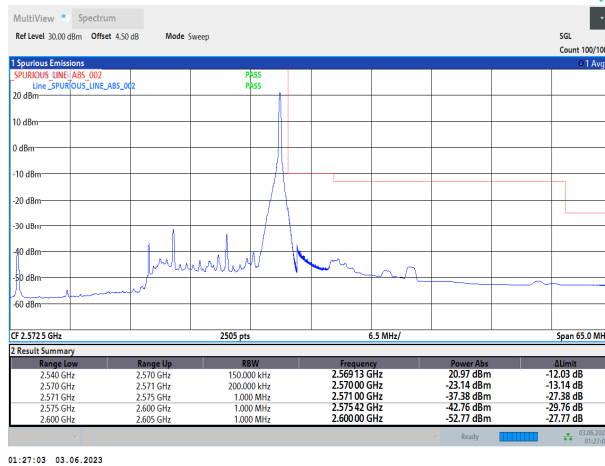
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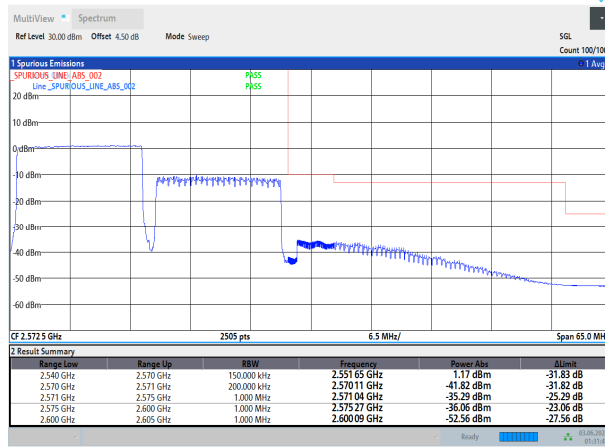
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



01:27:03 03.06.2023

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



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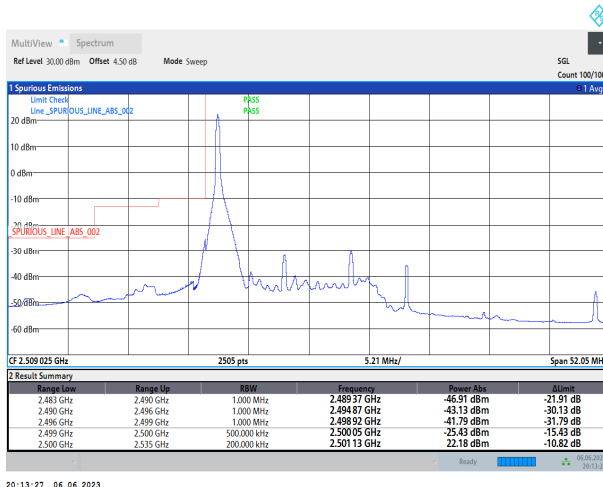


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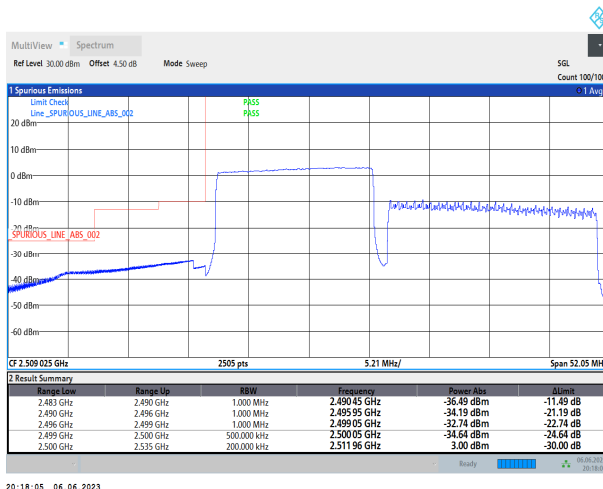
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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0



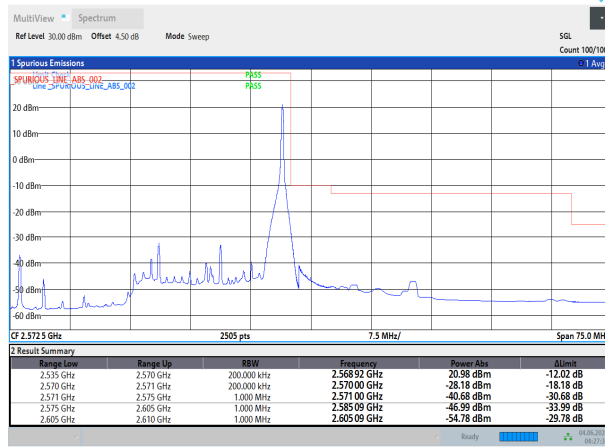
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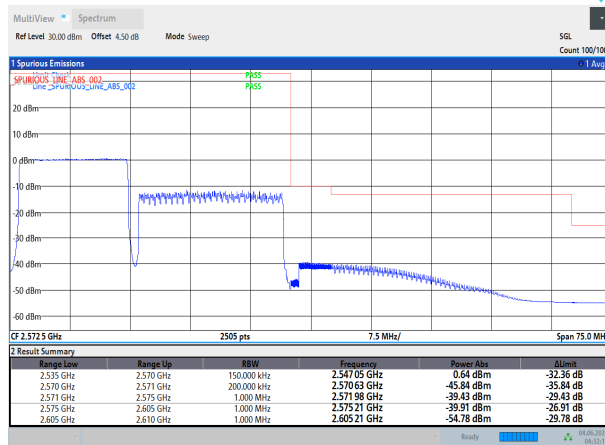
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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



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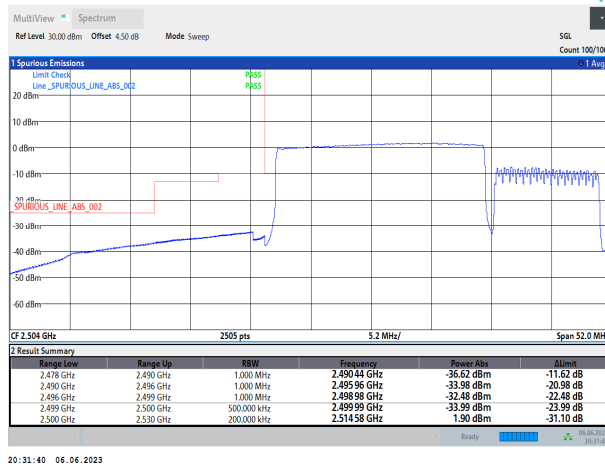


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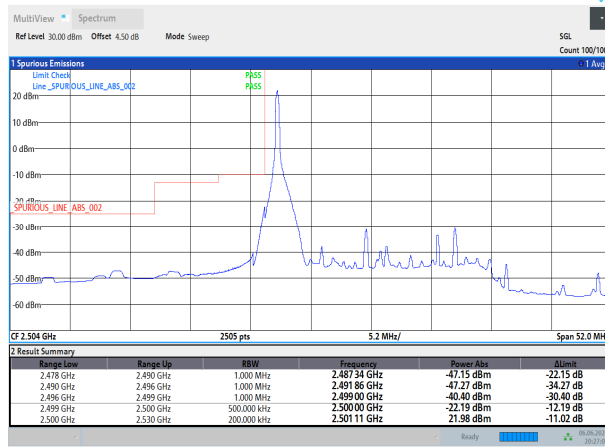
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



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20:27:03 06.06.2023

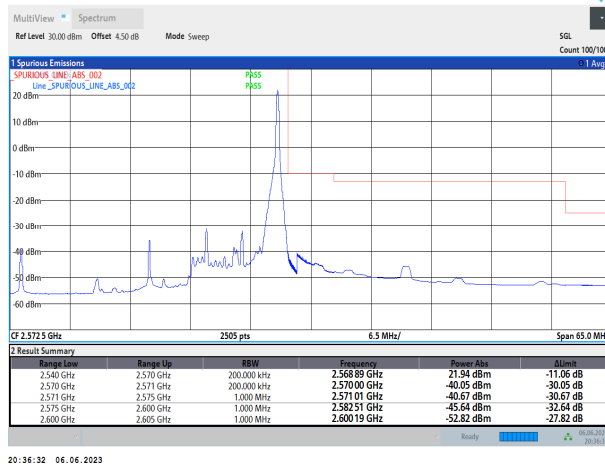


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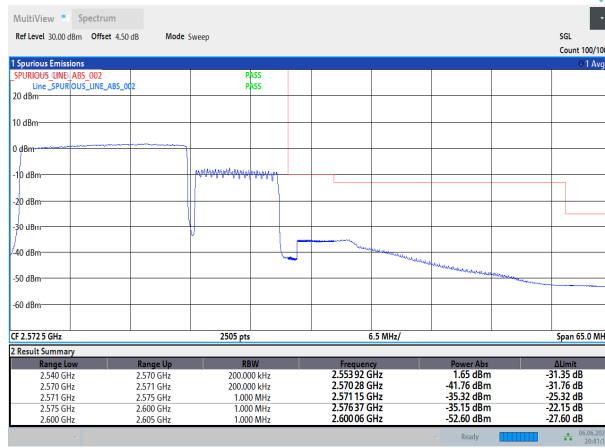
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



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20:41:10 06.06.2023

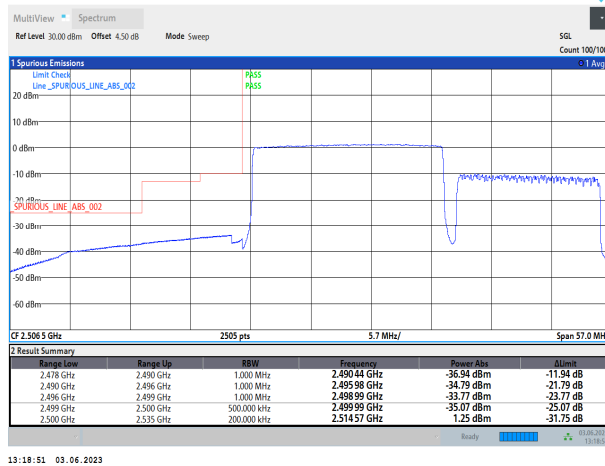


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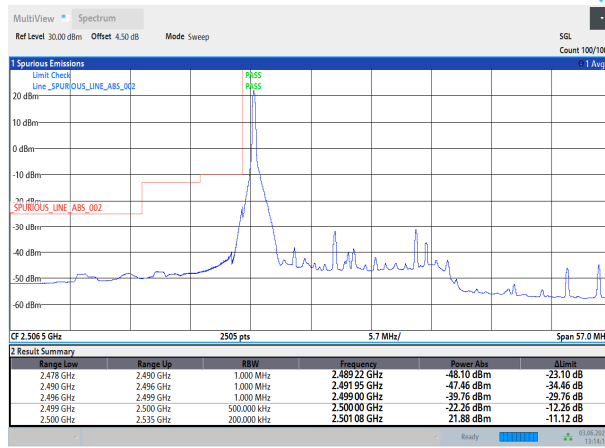


7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



13:18:51 03.06.2023

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



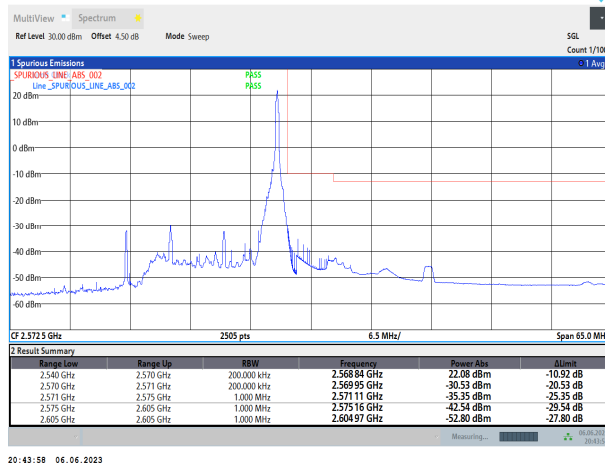
13:14:14 03.06.2023



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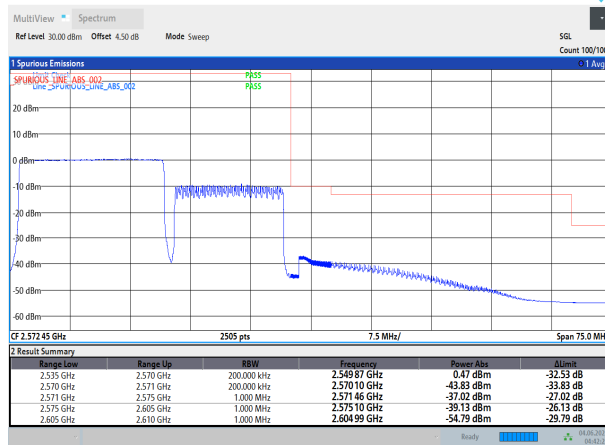
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



20:43:58 06.06.2023

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



04:42:29 04.06.2023

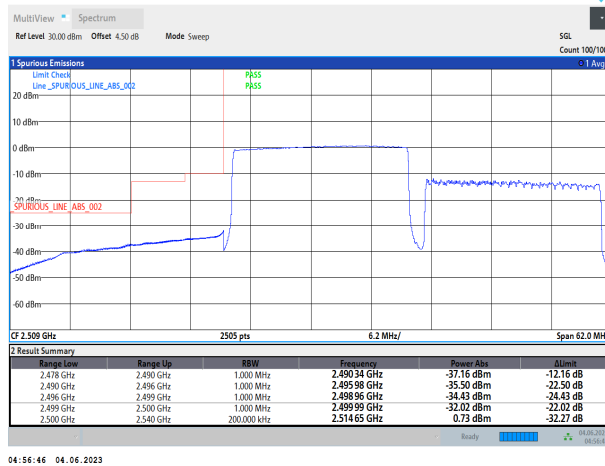


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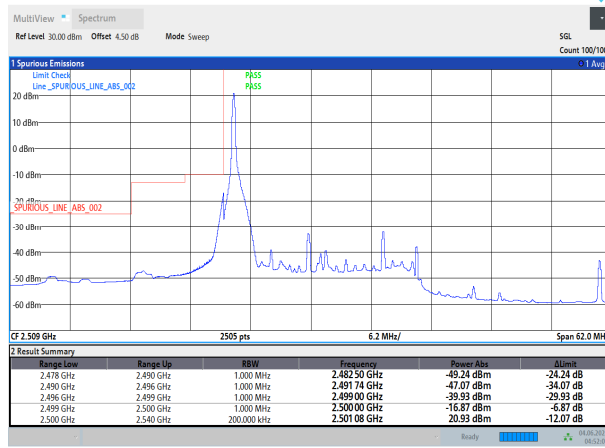
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



04:56:46 04.06.2023

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



04:52:08 04.06.2023

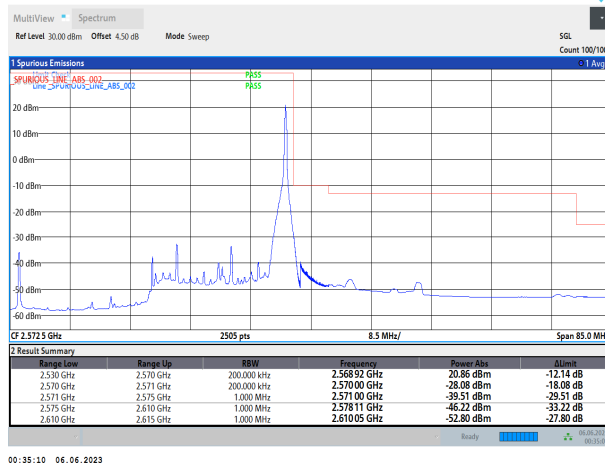


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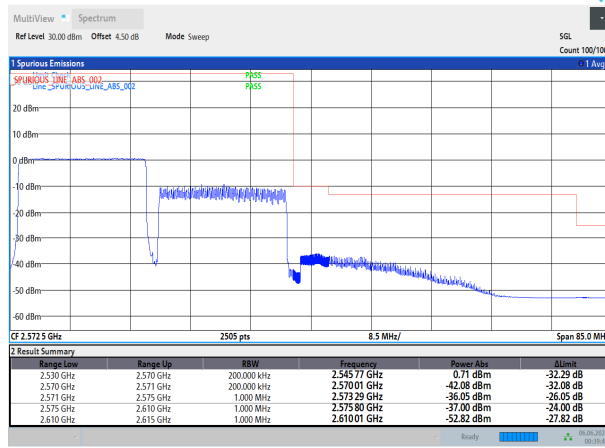
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



00:35:10 06.06.2023

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



00:39:48 06.06.2023



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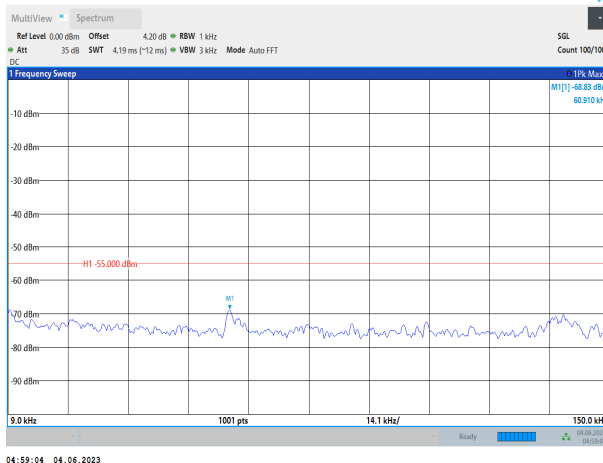
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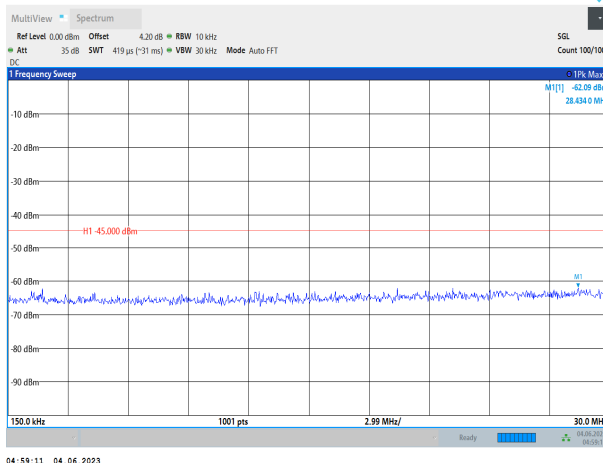
## Conducted Spurious Emission

### Test Graphs

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



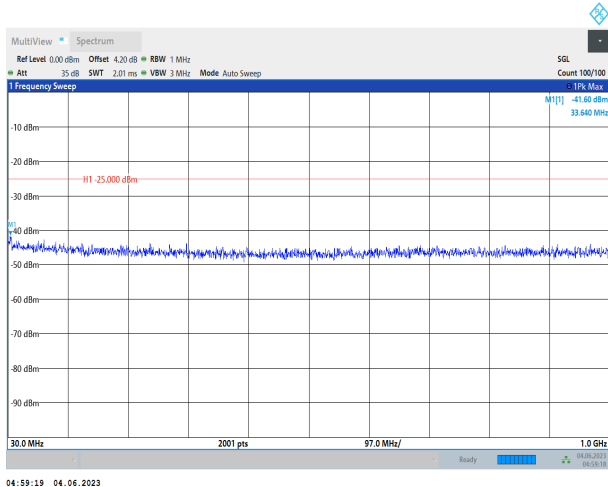
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



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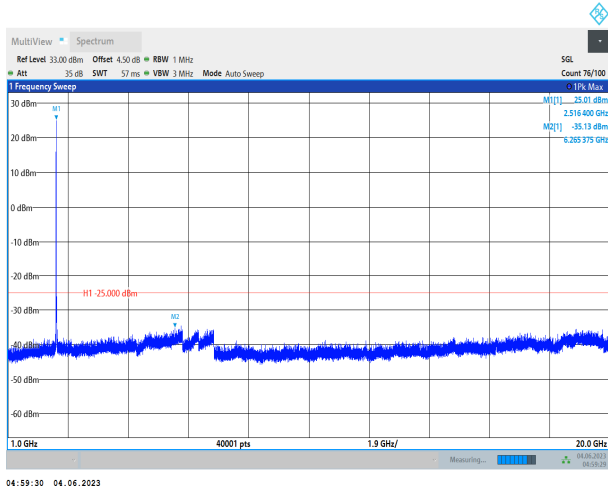
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



04:59:19 04.06.2023

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



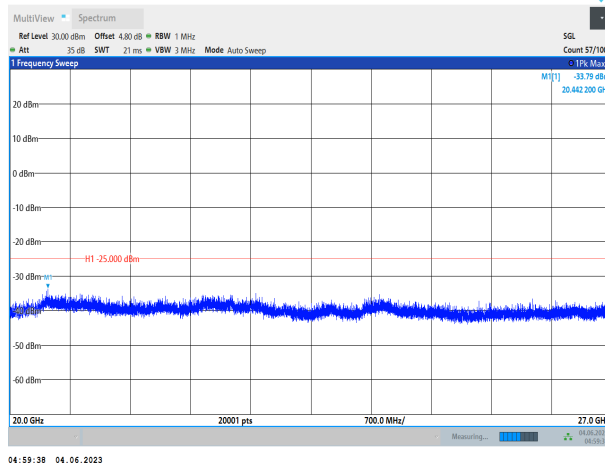
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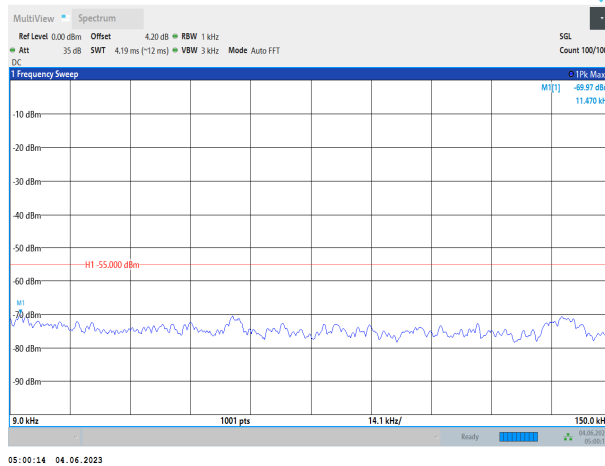
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



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

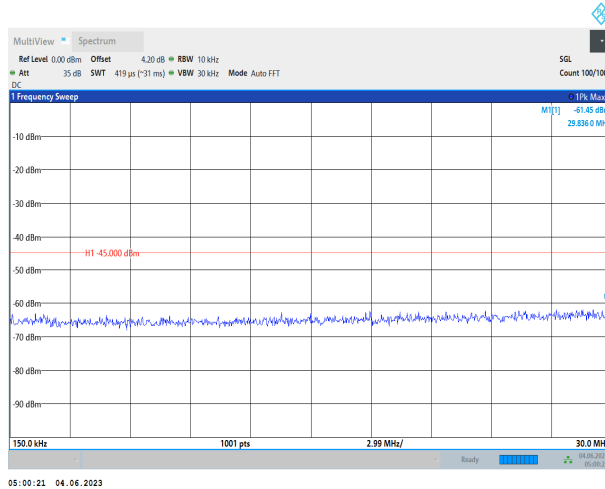


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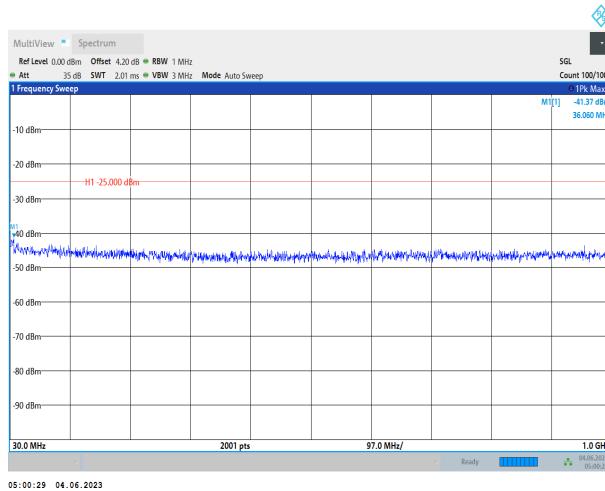
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



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



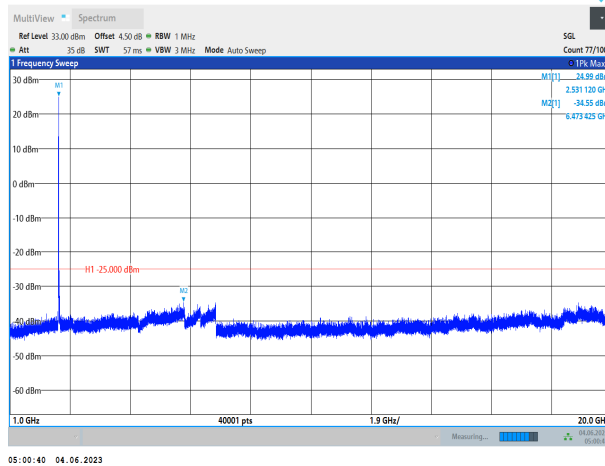
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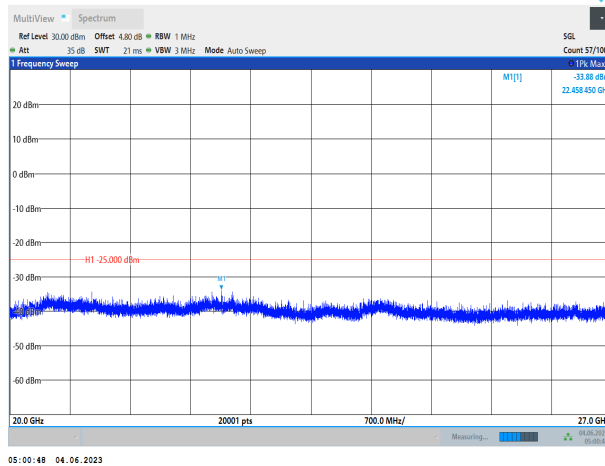
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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 = UL CA\_7C\_TM1\_Ant13

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	40.56	-44.92	32.60	-67.02	-25.00	42.02	214	46	Horizontal
2	7503.27	38.63	-41.59	36.51	-61.71	-25.00	36.71	182	65	Horizontal
3	10004.36	33.82	-37.13	38.50	-60.07	-25.00	35.07	137	237	Horizontal
4	12505.45	32.41	-35.23	39.11	-58.97	-25.00	33.97	189	357	Horizontal
5	15006.54	31.36	-34.00	39.19	-58.71	-25.00	33.71	245	46	Horizontal
6	17507.63	30.00	-31.88	40.63	-56.51	-25.00	31.51	219	320	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	40.85	-44.92	32.60	-66.73	-25.00	41.73	213	156	Vertical
2	7503.27	38.70	-41.59	36.51	-61.64	-25.00	36.64	167	51	Vertical
3	10004.36	33.95	-37.13	38.50	-59.94	-25.00	34.94	284	135	Vertical
4	12505.45	32.64	-35.23	39.11	-58.74	-25.00	33.74	176	113	Vertical
5	15006.54	30.59	-34.00	39.19	-59.48	-25.00	34.48	293	135	Vertical
6	17507.63	29.64	-31.88	40.63	-56.87	-25.00	31.87	142	51	Vertical



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**Test Band = UL\_CA\_7C\_TM1\_Ant13**
**Test Channel = Mid Channel**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.38	41.42	-44.73	32.60	-65.97	-25.00	40.97	148	11	Horizontal
2	7548.27	37.86	-41.44	36.60	-62.24	-25.00	37.24	176	87	Horizontal
3	10064.76	34.14	-36.93	38.57	-59.48	-25.00	34.48	235	234	Horizontal
4	12580.95	31.40	-34.68	39.18	-59.36	-25.00	34.36	189	11	Horizontal
5	15097.14	31.94	-34.35	39.07	-58.60	-25.00	33.60	246	1	Horizontal
6	17613.33	31.13	-31.69	41.05	-54.76	-25.00	29.76	106	320	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.38	41.25	-44.73	32.60	-66.14	-25.00	41.14	304	279	Vertical
2	7548.27	37.78	-41.44	36.60	-62.32	-25.00	37.32	179	196	Vertical
3	10064.76	34.07	-36.93	38.57	-59.55	-25.00	34.55	256	321	Vertical
4	12580.95	31.83	-34.68	39.18	-58.93	-25.00	33.93	211	258	Vertical
5	15097.14	31.90	-34.35	39.07	-58.64	-25.00	33.64	142	72	Vertical
6	17613.33	30.77	-31.69	41.05	-55.12	-25.00	30.12	160	341	Vertical



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**Test Band = UL CA\_7C\_TM1\_Ant13**
**Test Channel = High Channel**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.58	41.52	-44.53	32.60	-65.67	-25.00	40.67	218	357	Horizontal
2	7593.87	38.32	-41.28	36.69	-61.53	-25.00	36.53	144	27	Horizontal
3	10125.16	33.32	-36.74	38.64	-60.05	-25.00	35.05	237	212	Horizontal
4	12656.45	32.12	-34.87	39.26	-58.75	-25.00	33.75	148	27	Horizontal
5	15187.74	31.56	-32.71	38.96	-57.45	-25.00	32.45	206	297	Horizontal
6	17719.03	30.00	-30.94	41.48	-54.72	-25.00	29.72	191	357	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.58	40.96	-44.53	32.60	-66.23	-25.00	41.23	215	0	Vertical
2	7593.87	37.76	-41.28	36.69	-62.09	-25.00	37.09	174	260	Vertical
3	10125.16	34.38	-36.74	38.64	-58.99	-25.00	33.99	166	6	Vertical
4	12656.45	32.85	-34.87	39.26	-58.02	-25.00	33.02	295	56	Vertical
5	15187.74	31.51	-32.71	38.96	-57.50	-25.00	32.50	172	117	Vertical
6	17719.03	29.76	-30.94	41.48	-54.96	-25.00	29.96	203	179	Vertical



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Test Band = UL\_CA\_7C\_TM1\_Ant31

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	43.13	-44.92	32.60	-64.45	-25.00	39.45	217	216	Horizontal
2	7503.27	46.12	-41.59	36.51	-54.22	-25.00	29.22	188	32	Horizontal
3	10004.36	33.28	-37.13	38.50	-60.61	-25.00	35.61	159	1	Horizontal
4	12505.45	31.70	-35.23	39.11	-59.68	-25.00	34.68	264	216	Horizontal
5	15006.54	31.44	-34.00	39.19	-58.63	-25.00	33.63	173	277	Horizontal
6	17507.63	30.10	-31.88	40.63	-56.41	-25.00	31.41	206	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7503	46.61	-41.59	36.51	-53.73	-25.00	28.73	258	298	Vertical
2	5002.18	43.65	-44.92	32.60	-63.93	-25.00	38.93	179	298	Vertical
3	10004.36	35.99	-37.13	38.50	-57.90	-25.00	32.90	217	215	Vertical
4	12505.45	32.52	-35.23	39.11	-58.86	-25.00	33.86	278	151	Vertical
5	15006.54	31.17	-34.00	39.19	-58.90	-25.00	33.90	209	258	Vertical
6	17507.63	29.35	-31.88	40.63	-57.16	-25.00	32.16	271	130	Vertical



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**Test Band = UL\_CA\_7C\_TM1\_Ant31**  
**Test Channel = Mid Channel**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.38	43.06	-44.73	32.60	-64.33	-25.00	39.33	217	220	Horizontal
2	7548.27	45.49	-41.44	36.60	-54.61	-25.00	29.61	185	320	Horizontal
3	10064.76	34.28	-36.93	38.57	-59.34	-25.00	34.34	219	357	Horizontal
4	12580.95	31.93	-34.68	39.18	-58.83	-25.00	33.83	263	301	Horizontal
5	15097.14	31.73	-34.35	39.07	-58.81	-25.00	33.81	147	260	Horizontal
6	17613.33	30.43	-31.69	41.05	-55.46	-25.00	30.46	182	301	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.38	43.25	-44.73	32.60	-64.14	-25.00	39.14	174	319	Vertical
2	7548.27	46.69	-41.44	36.60	-53.41	-25.00	28.41	205	278	Vertical
3	10064.76	33.55	-36.93	38.57	-60.07	-25.00	35.07	168	194	Vertical
4	12580.95	32.30	-34.68	39.18	-58.46	-25.00	33.46	259	278	Vertical
5	15097.14	31.83	-34.35	39.07	-58.71	-25.00	33.71	177	12	Vertical
6	17613.33	30.80	-31.69	41.05	-55.09	-25.00	30.09	213	235	Vertical



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**Test Band = UL CA\_7C\_TM1\_Ant31**
**Test Channel = High Channel**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.58	41.44	-44.53	32.60	-65.75	-25.00	40.75	247	236	Horizontal
2	7593.87	43.53	-41.28	36.69	-56.32	-25.00	31.32	189	236	Horizontal
3	10125.16	33.78	-36.74	38.64	-59.59	-25.00	34.59	263	175	Horizontal
4	12656.45	32.23	-34.87	39.26	-58.64	-25.00	33.64	277	113	Horizontal
5	15187.74	31.49	-32.71	38.96	-57.52	-25.00	32.52	185	340	Horizontal
6	17719.03	29.49	-30.94	41.48	-55.23	-25.00	30.23	162	132	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.58	41.60	-44.53	32.60	-65.59	-25.00	40.59	244	341	Vertical
2	7593.87	42.84	-41.28	36.69	-57.01	-25.00	32.01	179	215	Vertical
3	10125.16	33.71	-36.74	38.64	-59.66	-25.00	34.66	263	108	Vertical
4	12656.45	31.74	-34.87	39.26	-59.13	-25.00	34.13	241	279	Vertical
5	15187.74	31.39	-32.71	38.96	-57.62	-25.00	32.62	175	0	Vertical
6	17719.03	30.35	-30.94	41.48	-54.37	-25.00	29.37	167	301	Vertical

Remark:

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

 $AF = \text{Antenna Factor (dB/m)}$ 
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Pre-amplifier (dB)}$ 
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$ 
 $\text{Margin} = \text{Limit} - \text{Level}$ 


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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	45.60	0.023651	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	54.20	0.022533	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	42.00	0.01456	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	52.70	0.021078	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	43.60	0.019233	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	45.50	0.019123	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	52.40	0.021325	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	48.10	0.016532	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	55.20	0.020687	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	46.60	0.018565	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	65.70	0.026056	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	35.50	0.014681	PASS

---End of Attachment---



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