

Report No.: SEWM2304000122RG01

Rev.: 01

Page: 1 of 71

Appendix B.21

LTE CA_5B



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 2 of 71

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	1RB#0-0RB#0	23.72	24.25	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	22.62	23.15	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	23.78	24.31	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	22.67	23.2	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	23.74	24.27	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	22.7	23.23	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	22.94	23.47	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	21.68	22.21	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	22.98	23.51	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	21.66	22.19	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	22.93	23.46	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	21.7	22.23	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	22.02	22.55	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	21.66	22.19	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	22.07	22.6	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	21.65	22.18	38.45	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 3 of 71

5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	21.99	22.5 2	38.4 5	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	21.76	22.2 9	38.4 5	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	1RB#0-0RB#0	19.22	19.7 5	38.4 5	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	19.68	20.2 1	38.4 5	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	1RB#0-0RB#0	19.13	19.6 6	38.4 5	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	19.66	20.1 9	38.4 5	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	1RB#0-0RB#0	19.01	19.5 4	38.4 5	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	19.71	20.2 4	38.4 5	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	23.92	24.4 5	38.4 5	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	22.68	23.2 1	38.4 5	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	23.91	24.4 4	38.4 5	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	22.69	23.2 2	38.4 5	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	23.84	24.3 7	38.4 5	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	22.73	23.2 6	38.4 5	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	22.95	23.4 8	38.4 5	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	21.69	22.2 2	38.4 5	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	23	23.5 3	38.4 5	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	21.7	22.2 3	38.4 5	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	23.09	23.6 2	38.4 5	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 4 of 71

5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	21.75	22.2 8	38.4 5	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	22.14	22.6 7	38.4 5	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	21.65	22.1 8	38.4 5	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	22.05	22.5 8	38.4 5	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	21.66	22.1 9	38.4 5	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	22.2	22.7 3	38.4 5	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	21.79	22.3 2	38.4 5	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	1RB#0-0RB#0	19.18	19.7 1	38.4 5	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	19.69	20.2 2	38.4 5	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	1RB#0-0RB#0	19.07	19.6	38.4 5	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	19.71	20.2 4	38.4 5	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	1RB#0-0RB#0	18.95	19.4 8	38.4 5	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	19.78	20.3 1	38.4 5	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	24.78	25.3 1	38.4 5	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	1RB#0-0RB#0	24.07	24.6	38.4 5	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	24.8	25.3 3	38.4 5	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	1RB#0-0RB#0	23.89	24.4 2	38.4 5	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	24.81	25.3 4	38.4 5	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	1RB#0-0RB#0	24.04	24.5 7	38.4 5	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 5 of 71

5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	24.46	24.9 9	38.4 5	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	1RB#0-0RB#0	24.06	24.5 9	38.4 5	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	24.5	25.0 3	38.4 5	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	1RB#0-0RB#0	24.1	24.6 3	38.4 5	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	24.22	24.7 5	38.4 5	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	1RB#0-0RB#0	24.28	24.8 1	38.4 5	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	23.67	24.2	38.4 5	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	1RB#0-0RB#0	24.33	24.8 6	38.4 5	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	23.55	24.0 8	38.4 5	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	1RB#0-0RB#0	24.2	24.7 3	38.4 5	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	23.34	23.8 7	38.4 5	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	1RB#0-0RB#0	24.29	24.8 2	38.4 5	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	22.81	23.3 4	38.4 5	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	1RB#0-0RB#0	23.05	23.5 8	38.4 5	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	22.62	23.1 5	38.4 5	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	1RB#0-0RB#0	22.46	22.9 9	38.4 5	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	22.39	22.9 2	38.4 5	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	1RB#0-0RB#0	22.65	23.1 8	38.4 5	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	23.9	24.4 3	38.4 5	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 6 of 71

5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	22.65	23.1 8	38.4 5	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	23.8	24.3 3	38.4 5	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	22.63	23.1 6	38.4 5	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	23.83	24.3 6	38.4 5	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	22.68	23.2 1	38.4 5	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	23.23	23.7 6	38.4 5	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	21.69	22.2 2	38.4 5	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	23	23.5 3	38.4 5	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	21.63	22.1 6	38.4 5	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	23.08	23.6 1	38.4 5	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	21.78	22.3 1	38.4 5	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	22.1	22.6 3	38.4 5	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	21.73	22.2 6	38.4 5	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	22.14	22.6 7	38.4 5	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	21.73	22.2 6	38.4 5	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	22.16	22.6 9	38.4 5	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	21.75	22.2 8	38.4 5	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	1RB#0-0RB#0	19.08	19.6 1	38.4 5	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	19.7	20.2 3	38.4 5	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 7 of 71

5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	1RB#0-0RB#0	19.07	19.6	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	19.65	20.18	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	1RB#0-0RB#0	19.04	19.57	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	19.78	20.31	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	1RB#0-0RB#0	24.01	24.54	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	24.72	25.25	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	1RB#0-0RB#0	23.91	24.44	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	24.8	25.33	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	1RB#0-0RB#0	24.03	24.56	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	24.8	25.33	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	1RB#0-0RB#0	24.19	24.72	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	24.36	24.89	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	1RB#0-0RB#0	24.13	24.66	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	24.51	25.04	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	1RB#0-0RB#0	24.21	24.74	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	24.14	24.67	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	1RB#0-0RB#0	24.23	24.76	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	23.7	24.23	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	1RB#0-0RB#0	24.33	24.86	38.45	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 8 of 71

5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	23.67	24.2	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	1RB#0-0RB#0	24.24	24.77	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	23.2	23.73	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	1RB#0-0RB#0	23.12	23.65	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	22.82	23.35	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	1RB#0-0RB#0	22.48	23.01	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	22.62	23.15	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	1RB#0-0RB#0	22.76	23.29	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	22.25	22.78	38.45	PASS



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Rev.: 01

Page: 9 of 71

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	5.98	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	6.06	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	6.04	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	6.58	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	6.68	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	6.72	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	6.74	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	6.82	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	6.78	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	7.22	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	7.30	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	7.24	13	PASS



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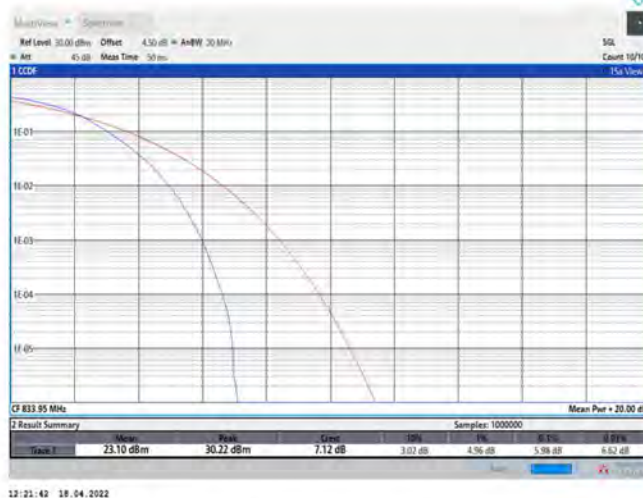
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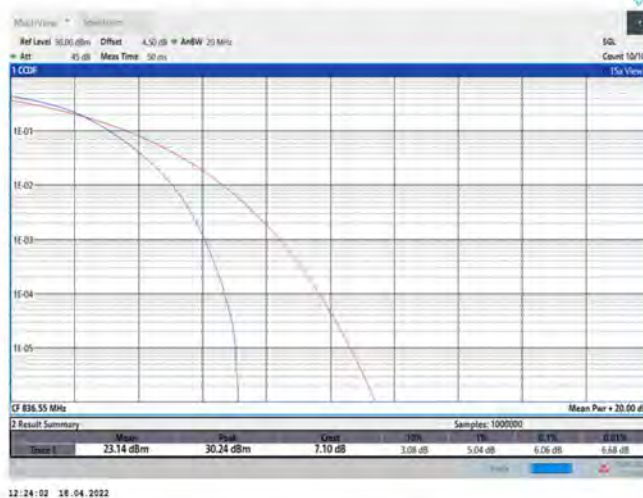
Page: 10 of 71

Test Graphs

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



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



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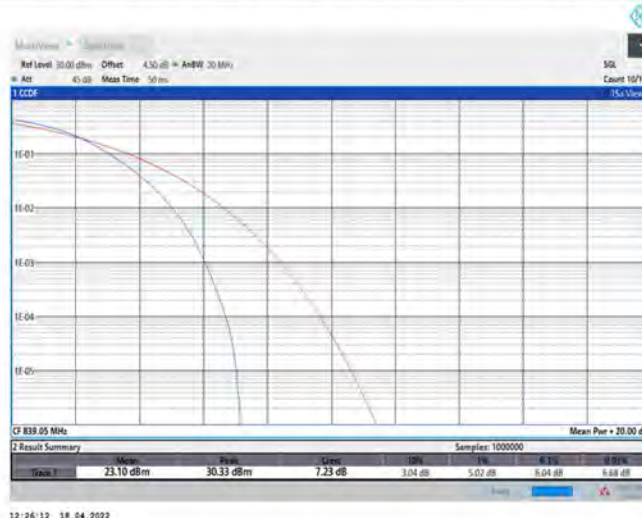
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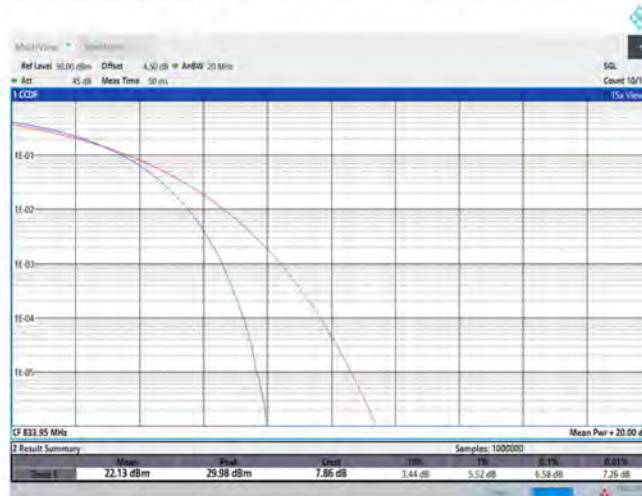
Page: 11 of 71

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



12:26:12 18.04.2022

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



12:22:13 18.04.2022



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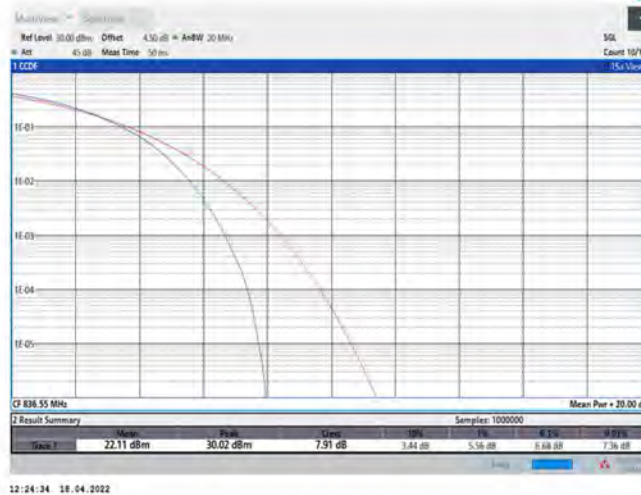
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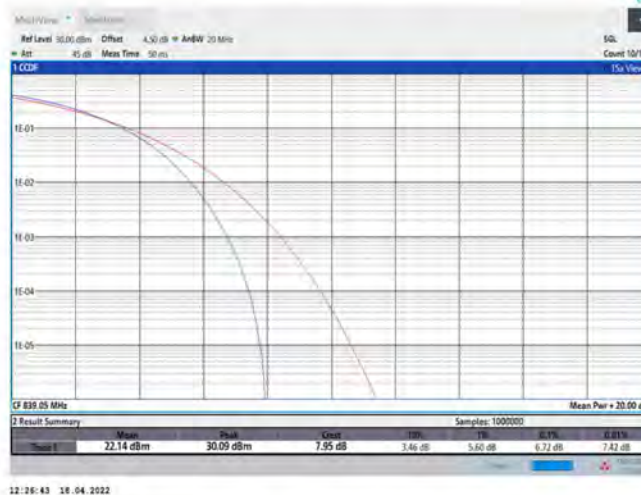
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Page: 12 of 71

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



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



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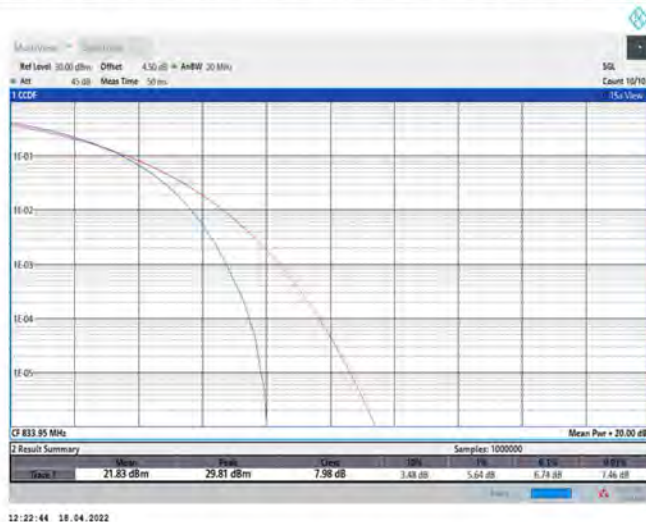
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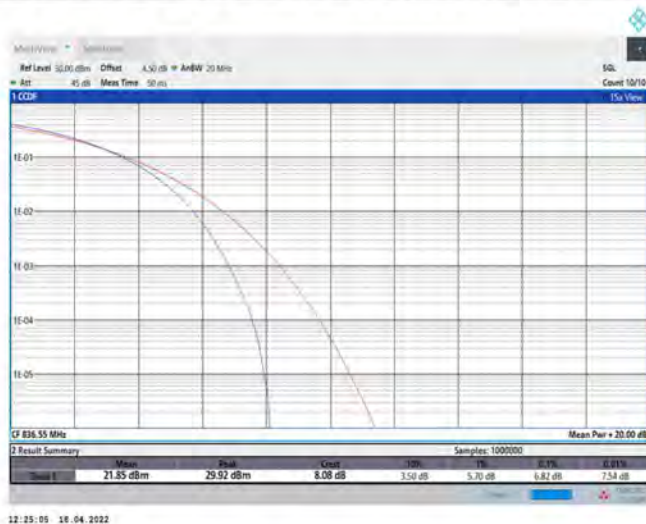
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5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



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



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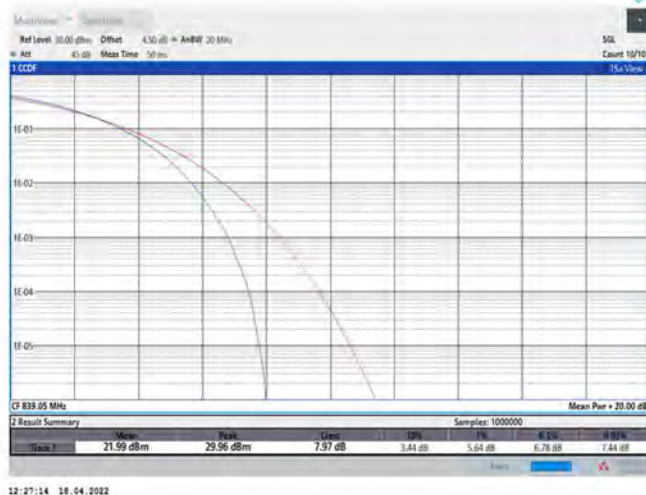
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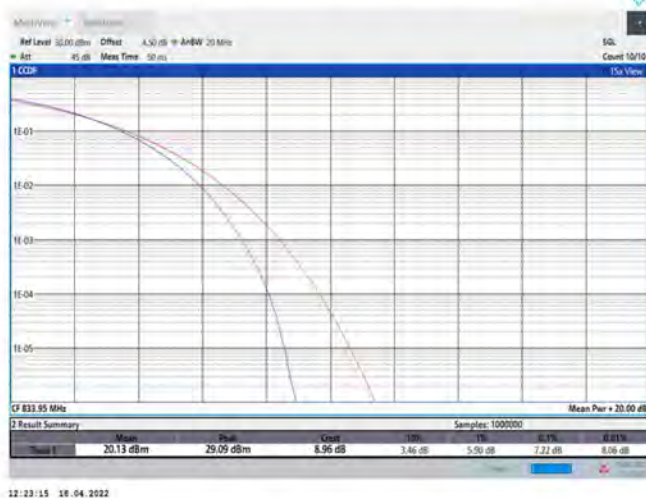
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5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



5-5-10MHz-10MHz-256QAM-256QAM-20450-20549-50RB#0-50RB#0



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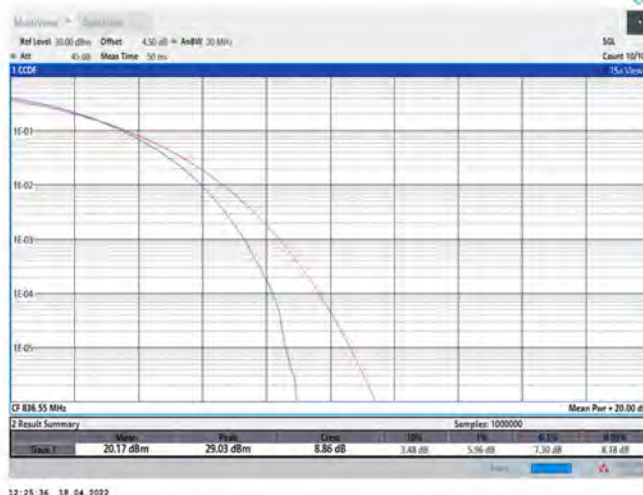
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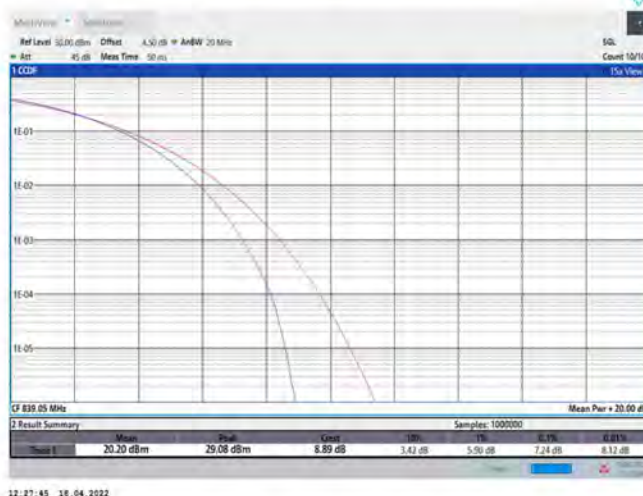
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5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



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Rev.: 01

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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	Result	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	PASS



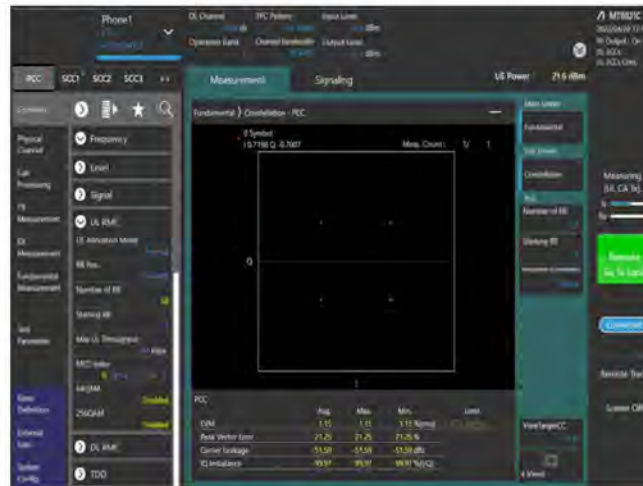
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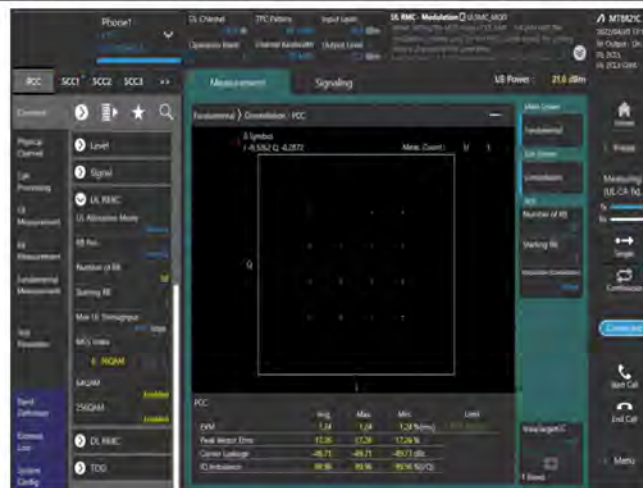
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



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



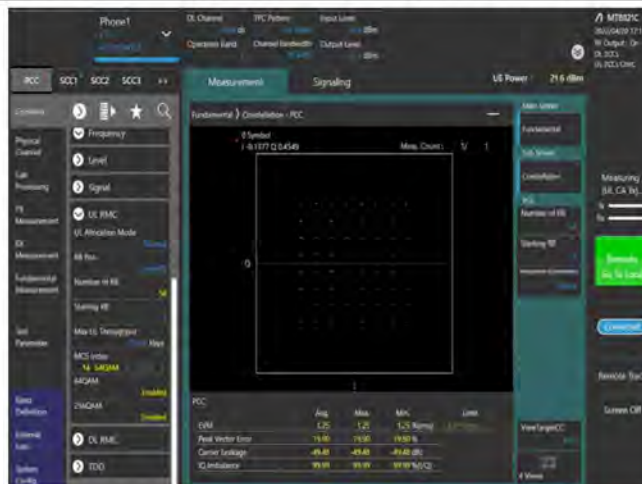
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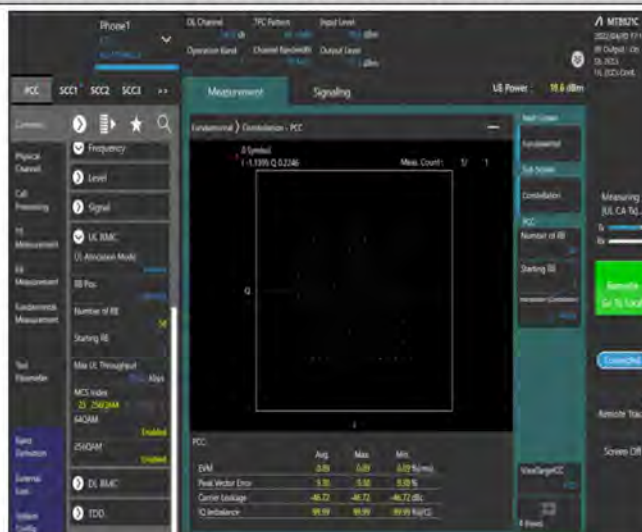
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5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#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
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	18.830	20.48	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.836	20.36	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	18.803	20.32	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	18.828	20.28	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.826	20.28	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	18.786	20.40	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	18.814	20.32	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.779	20.20	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	18.801	20.28	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	18.829	20.16	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.766	20.20	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.768	20.36	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	13.931	15.12	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.860	15.03	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	13.901	15.09	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	13.900	15.09	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.880	15.09	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	13.858	15.03	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	13.895	15.12	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.879	15.03	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	13.872	15.03	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	13.907	15.18	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	13.870	15.00	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	13.886	15.00	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	7.518	8.35	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	7.476	8.16	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	7.504	8.16	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	7.487	8.11	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	7.493	8.13	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	7.492	8.10	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 20 of 71

5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	7.473	8.13	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	7.473	8.08	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	7.490	8.06	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	7.486	8.06	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	7.465	8.03	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	7.478	8.06	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	13.903	14.97	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.857	14.88	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	13.827	14.85	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	13.867	14.91	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.838	14.82	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	13.858	14.79	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	13.890	14.82	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.852	14.82	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	13.86	14.85	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	13.876	14.91	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	13.801	14.85	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	13.806	14.85	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	7.522	8.37	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	7.509	8.22	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	7.487	8.24	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	7.505	8.26	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	7.482	8.18	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	7.512	8.19	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	7.515	8.21	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	7.463	8.19	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	7.493	8.19	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	7.488	8.18	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	7.486	8.19	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	7.489	8.21	PASS



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Test Graphs

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



12:28:25 19.04.2022

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



14:19:13 20.04.2022



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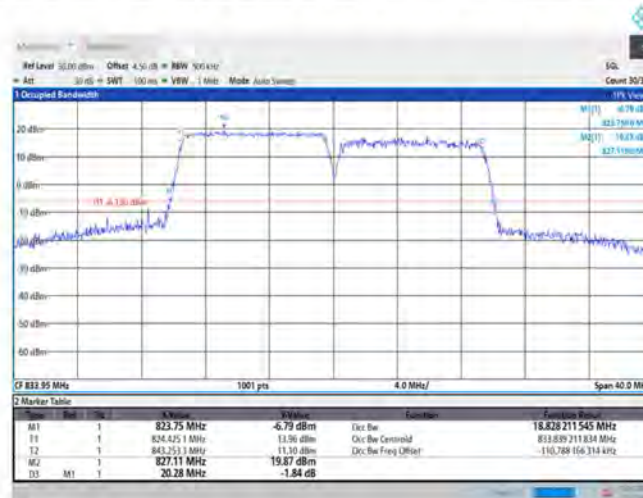
Page: 22 of 71

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



14:19:30 20.04.2022

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



12:28:57 18.04.2022



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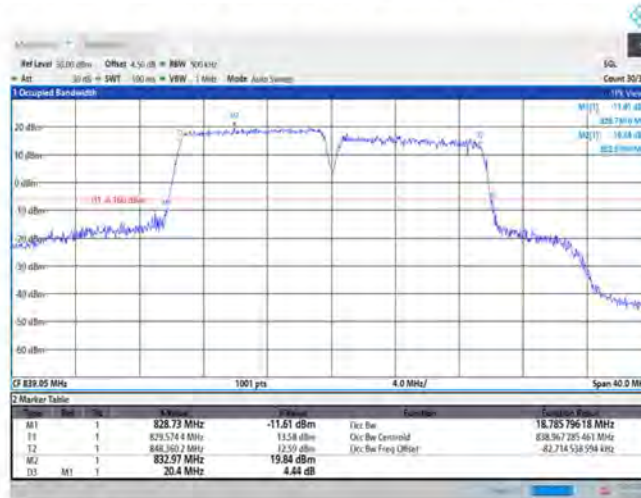
Page: 23 of 71

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



12:31:10 18.04.2022

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



12:33:23 18.04.2022



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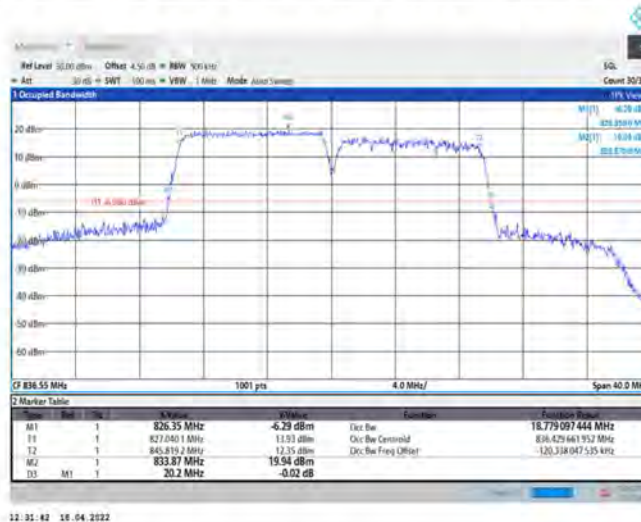
Rev.: 01

Page: 24 of 71

5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



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



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 25 of 71

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



5-5-10MHz-10MHz-256QAM-256QAM-20450-20549-50RB#0-50RB#0



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Rev.: 01

Page: 26 of 71

5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



5-5-10MHz-10MHz-256QAM-256QAM-20501-20600-50RB#0-50RB#0



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Rev.: 01

Page: 27 of 71

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



11:54:18 18.04.2022

5-5-10MHz-5MHz-QPSK-QPSK-20500-20572-50RB#0-25RB#0



14:17:17 20.04.2022



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Rev.: 01

Page: 28 of 71

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



14:17:54 20.04.2022

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



11:54:50 18.04.2022



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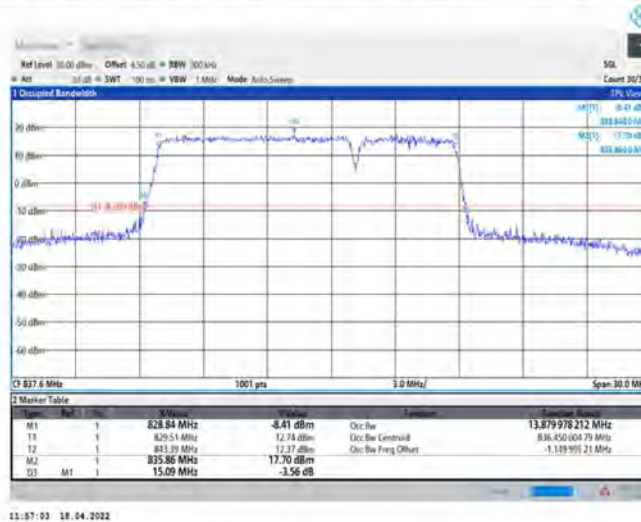
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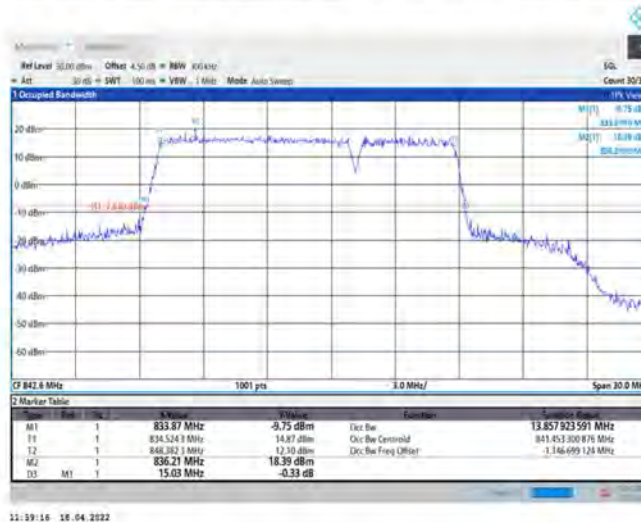
Rev.: 01

Page: 29 of 71

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



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



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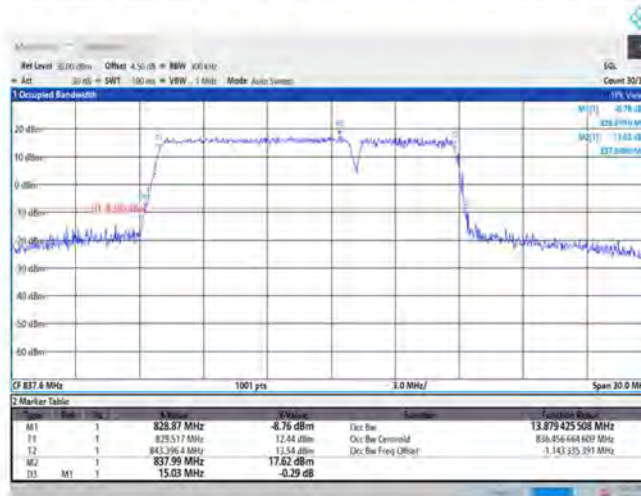
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11:55:21 18.04.2022

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



11:57:34 18.04.2022



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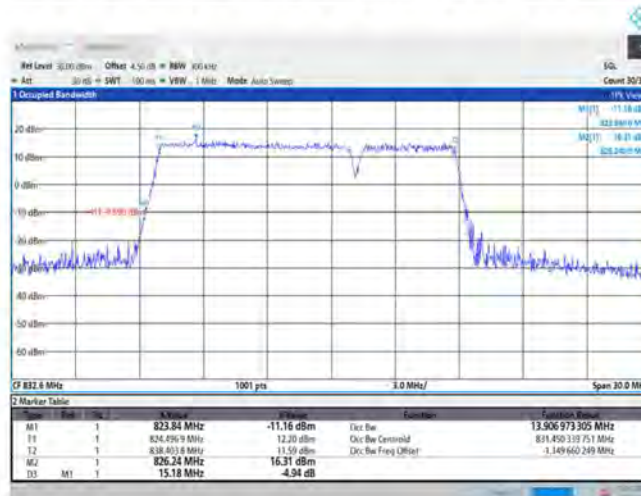
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11:39:48 18.04.2022

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11:39:53 18.04.2022



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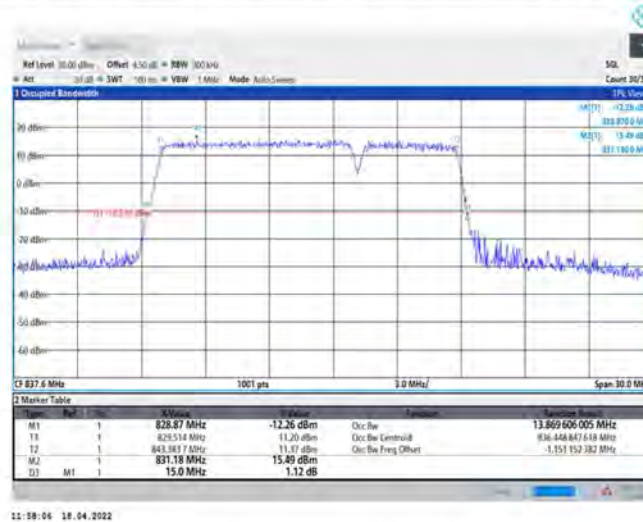
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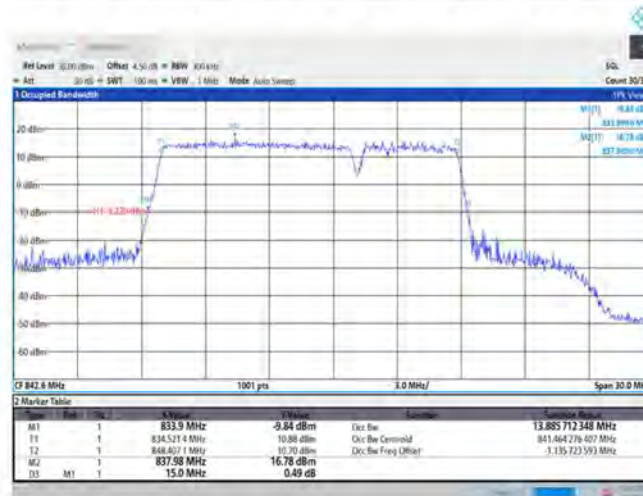
Page: 32 of 71

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11:58:06 18.04.2022

5-5-10MHz-5MHz-256QAM-256QAM-20550-20622-50RB#0-25RB#0



12:20:19 18.04.2022



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Rev.: 01

Page: 33 of 71

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09:36:44 18.04.2022

5-5-3MHz-5MHz-QPSK-QPSK-20501-20540-15RB#0-25RB#0



14:12:29 20.04.2022



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Rev.: 01

Page: 34 of 71

5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-15RB#0-25RB#0



5-5-3MHz-5MHz-16QAM-16QAM-20416-20455-15RB#0-25RB#0



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Page: 35 of 71

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09:39:28 18.04.2022

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09:41:39 18.04.2022



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 36 of 71

5-5-3MHz-5MHz-64QAM-64QAM-20416-20455-15RB#0-25RB#0



5-5-3MHz-5MHz-64QAM-64QAM-20501-20540-15RB#0-25RB#0



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 37 of 71

5-5-3MHz-5MHz-64QAM-64QAM-20586-20625-15RB#0-25RB#0



5-5-3MHz-5MHz-256QAM-256QAM-20416-20455-15RB#0-25RB#0



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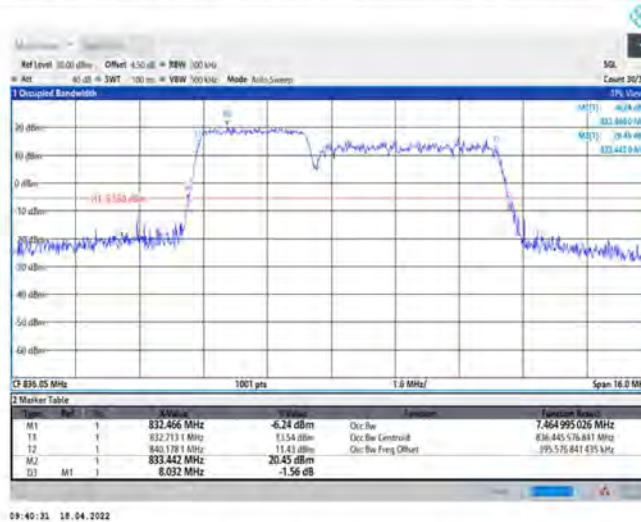
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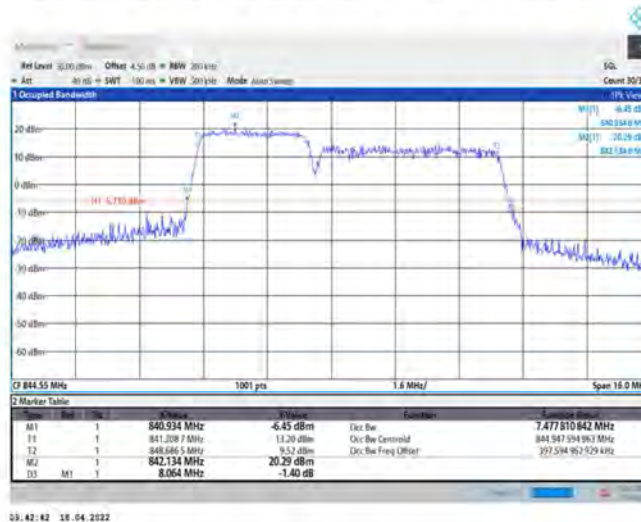
Rev.: 01

Page: 38 of 71

5-5-3MHz-5MHz-256QAM-256QAM-20501-20540-15RB#0-25RB#0



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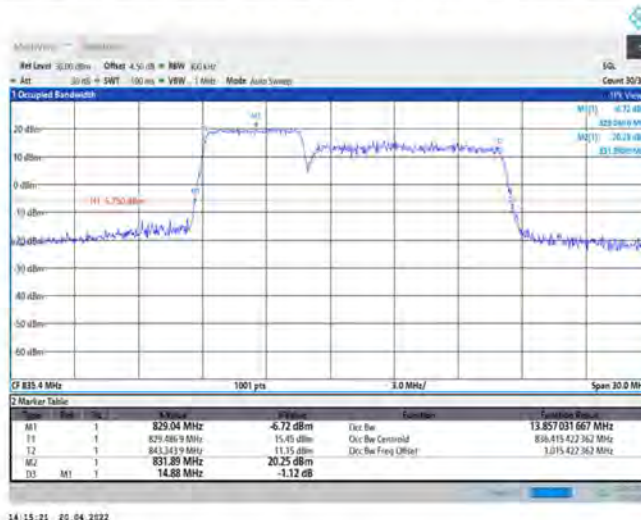
Rev.: 01

Page: 39 of 71

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



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



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 40 of 71

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



5-5-5MHz-10MHz-16QAM-16QAM-20428-20500-25RB#0-50RB#0



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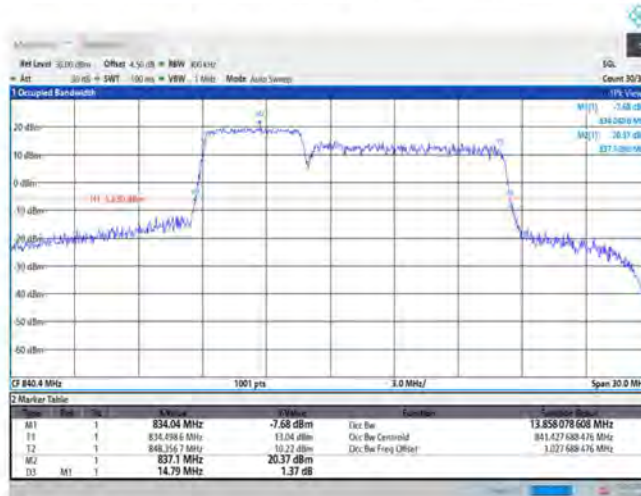
Page: 41 of 71

5-5-5MHz-10MHz-16QAM-16QAM-20478-20550-25RB#0-50RB#0



11:01:43 18.04.2022

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



11:03:58 18.04.2022



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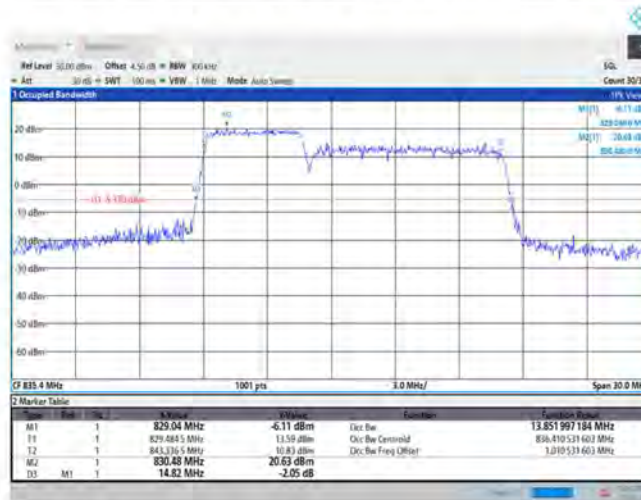
Page: 42 of 71

5-5-5MHz-10MHz-64QAM-64QAM-20428-20500-25RB#0-50RB#0



11:00:04 18.04.2022

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



11:02:17 18.04.2022



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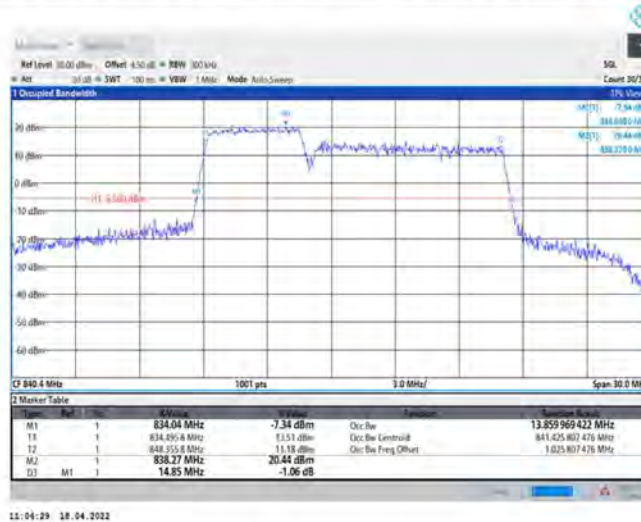
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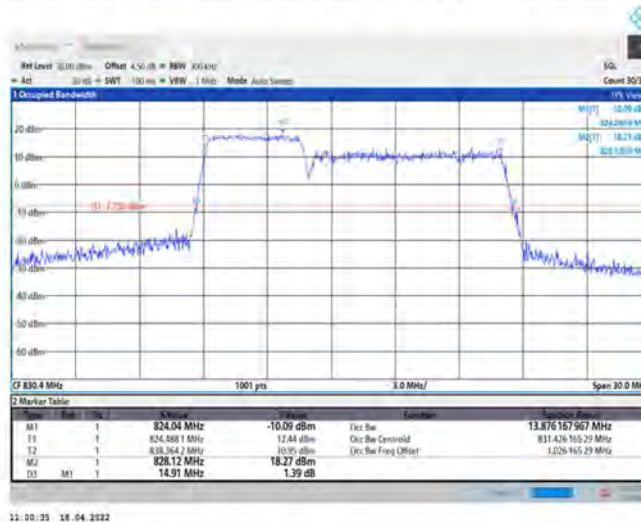
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5-5-5MHz-10MHz-64QAM-64QAM-20528-20600-25RB#0-50RB#0



11:04:29 18.04.2022

5-5-5MHz-10MHz-256QAM-256QAM-20428-20500-25RB#0-50RB#0



11:00:35 18.04.2022



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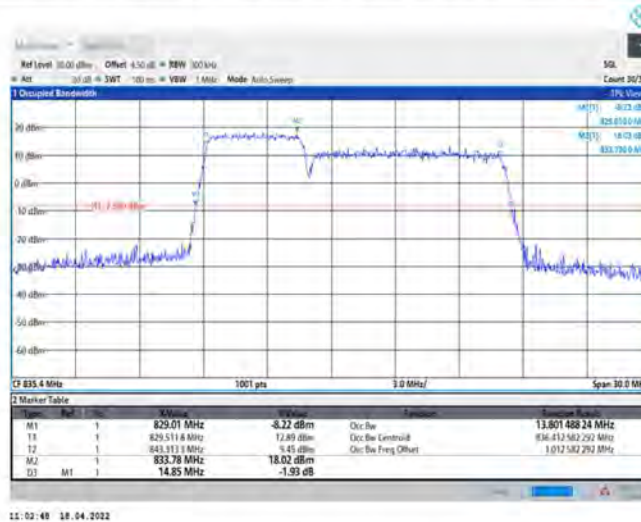
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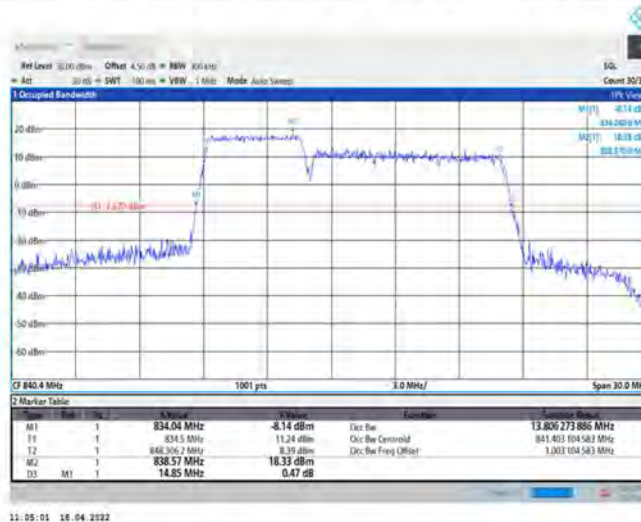
Rev.: 01

Page: 44 of 71

5-5-5MHz-10MHz-256QAM-256QAM-20478-20550-25RB#0-50RB#0



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Rev.: 01

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5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



10:01:58 18.04.2022

5-5-5MHz-3MHz-QPSK-QPSK-20510-20549-25RB#0-15RB#0



14:13:48 20.04.2022



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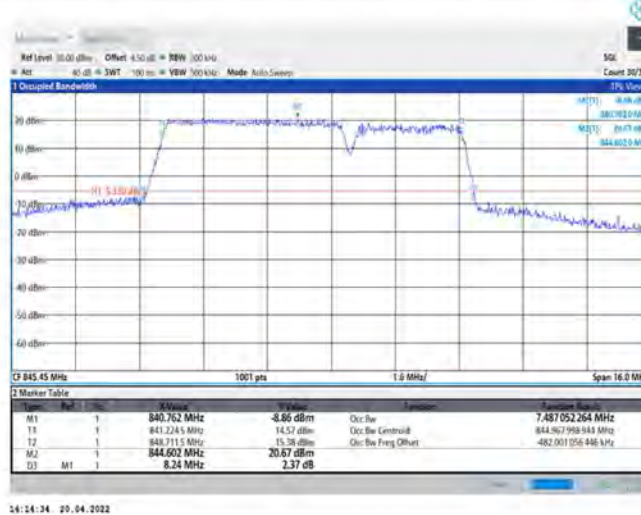
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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 46 of 71

5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-25RB#0-15RB#0



14:14:34 20.04.2022

5-5-5MHz-3MHz-16QAM-16QAM-20425-20464-25RB#0-15RB#0



10:12:30 18.04.2022



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 47 of 71

5-5-5MHz-3MHz-16QAM-16QAM-20510-20549-25RB#0-15RB#0



5-5-5MHz-3MHz-16QAM-16QAM-20595-20634-25RB#0-15RB#0



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Rev.: 01

Page: 48 of 71

5-5-5MHz-3MHz-64QAM-64QAM-20425-20464-25RB#0-15RB#0



10:03:01 18.04.2022

5-5-5MHz-3MHz-64QAM-64QAM-20510-20549-25RB#0-15RB#0



10:05:14 18.04.2022



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Rev.: 01

Page: 49 of 71

5-5-5MHz-3MHz-64QAM-64QAM-20595-20634-25RB#0-15RB#0



10:07:24 18.04.2022

5-5-5MHz-3MHz-256QAM-256QAM-20425-20464-25RB#0-15RB#0



10:03:32 18.04.2022



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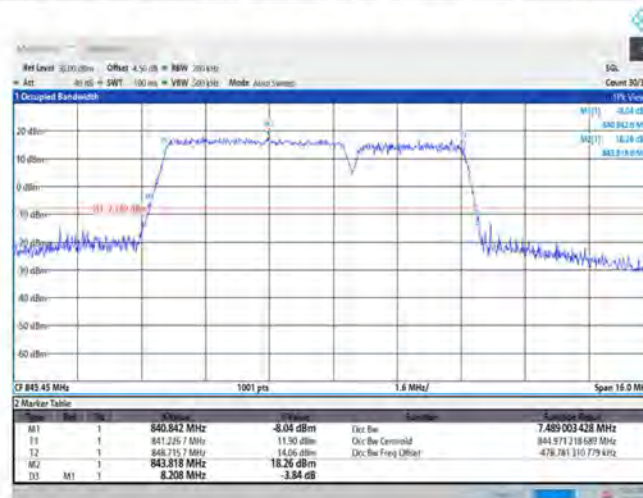
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5-5-5MHz-3MHz-256QAM-256QAM-20510-20549-25RB#0-15RB#0



10:05:43 18.04.2022

5-5-5MHz-3MHz-256QAM-256QAM-20595-20634-25RB#0-15RB#0



10:07:56 18.04.2022



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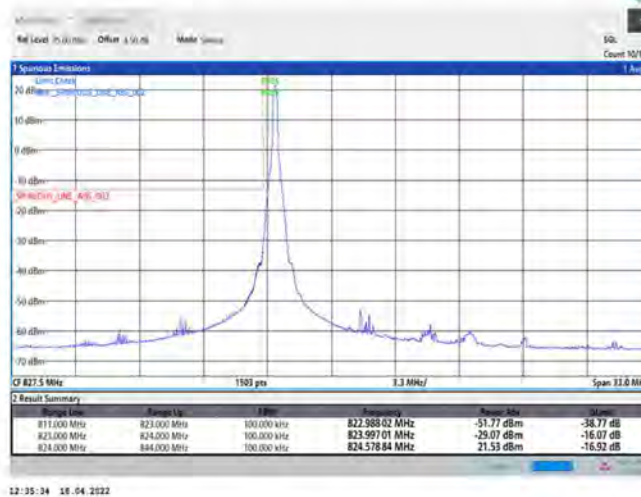
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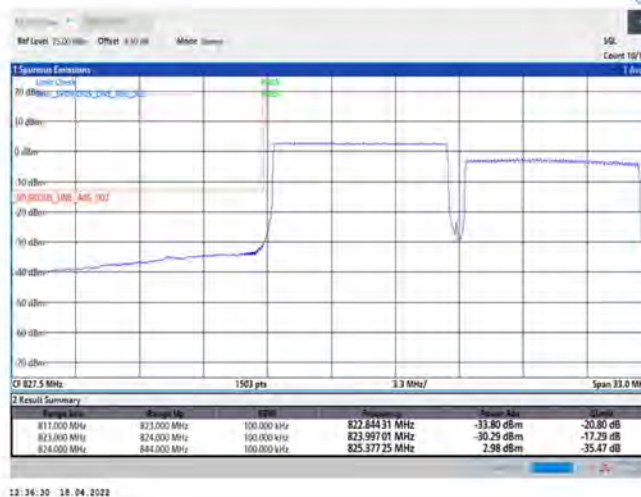
Band Edge

Test Graphs

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



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



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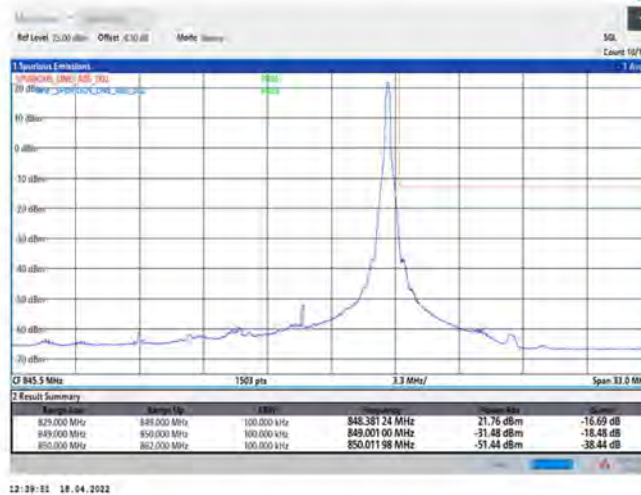
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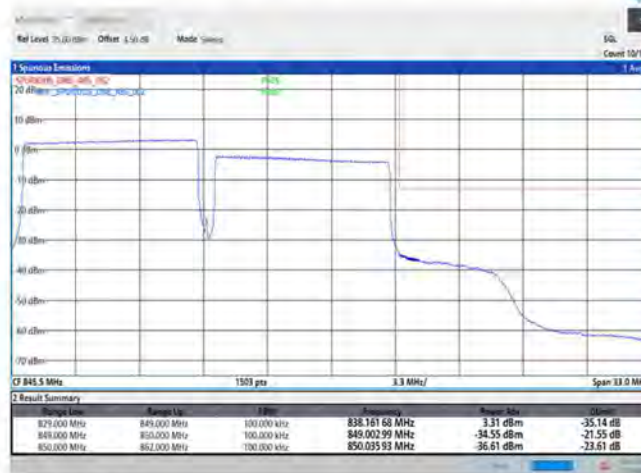
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12:39:55 18.04.2022

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



12:40:47 18.04.2022



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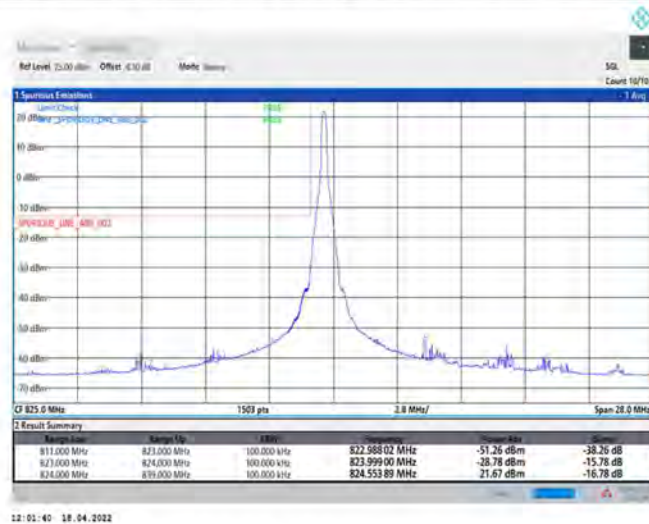
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5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



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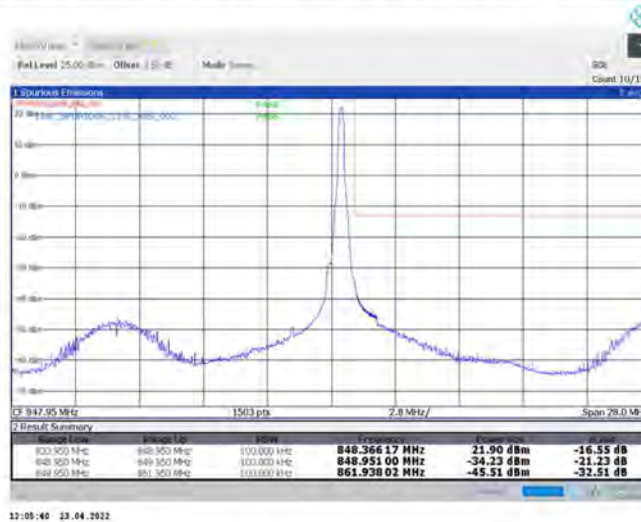
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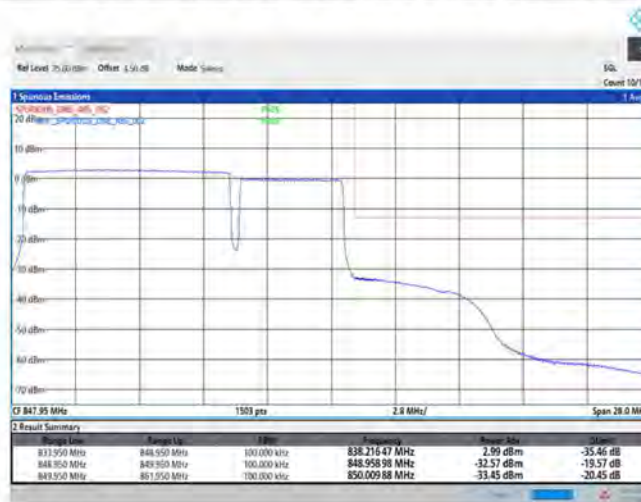
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12:05:40 23.04.2022

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12:10:46 16.04.2022



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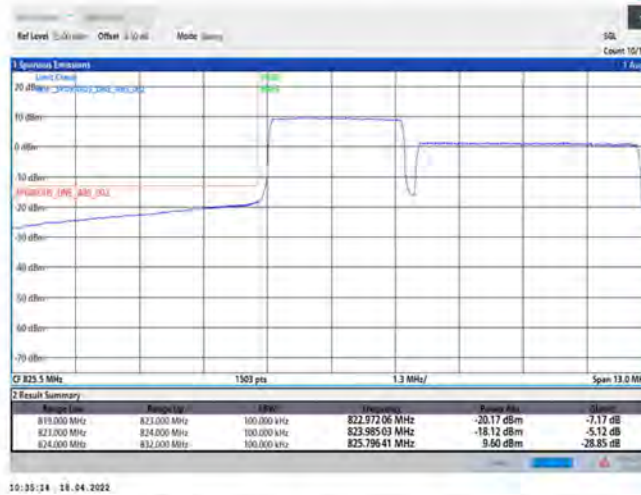
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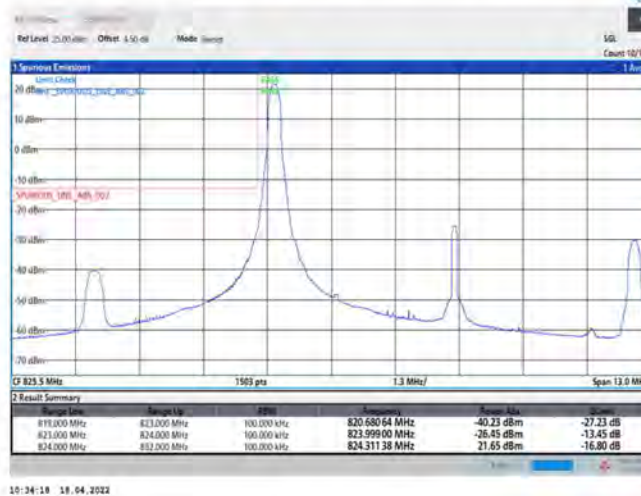
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10:35:34 18.04.2022

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10:34:18 18.04.2022



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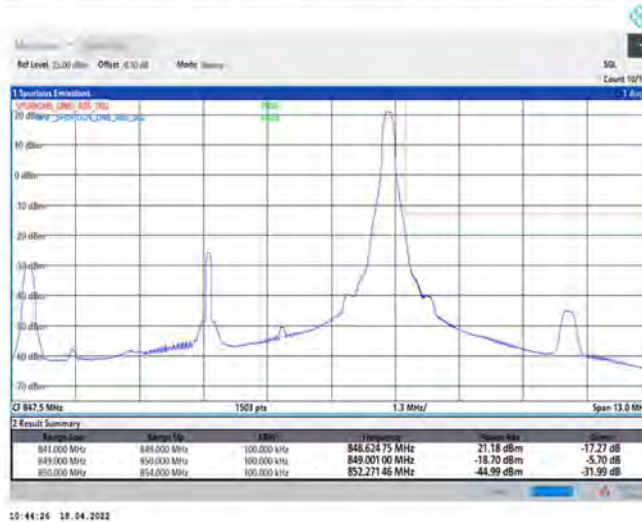
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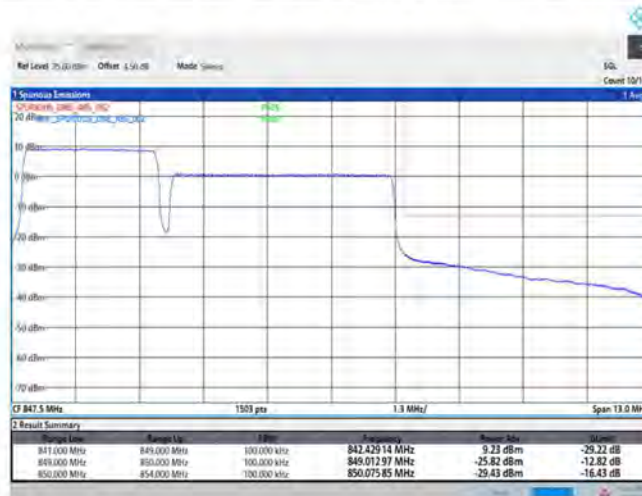
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10:44:26 18.04.2022

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10:45:22 18.04.2022



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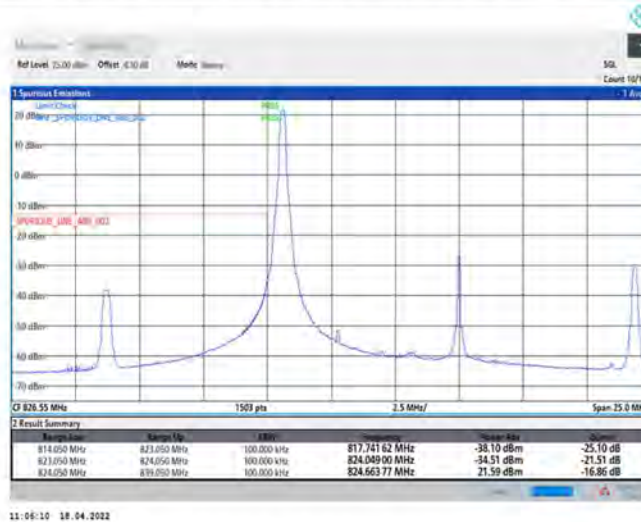
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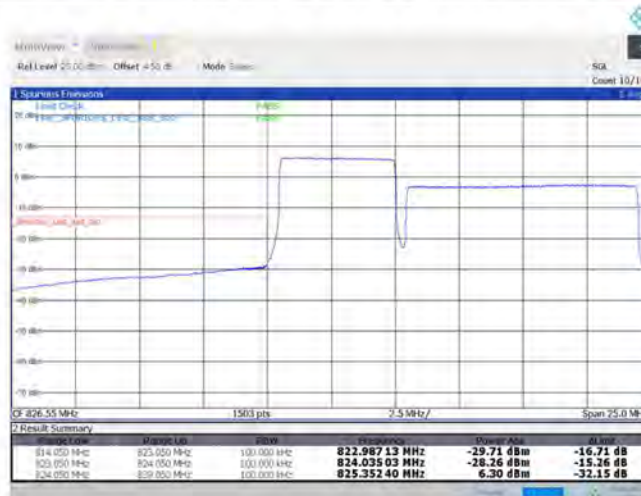
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5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



11:06:10 18.04.2022

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11:59:29 22.04.2022



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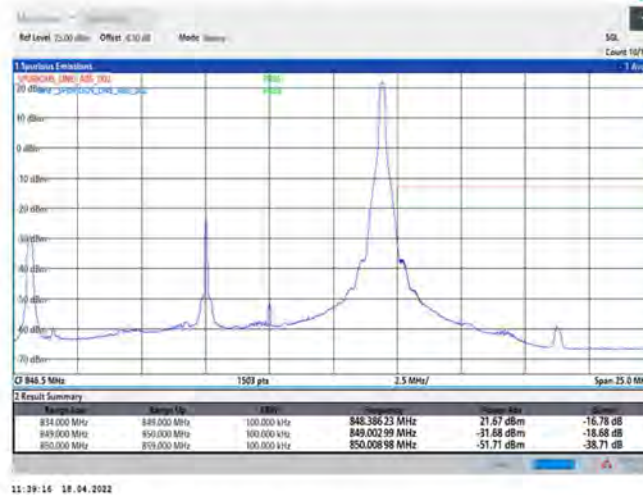
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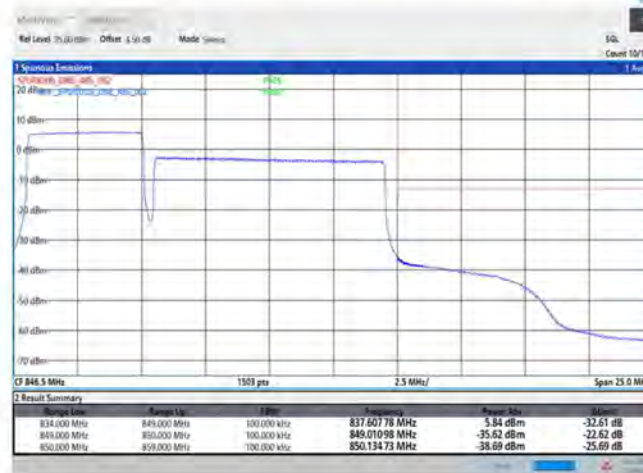
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11:39:16 18.04.2022

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11:40:13 18.04.2022



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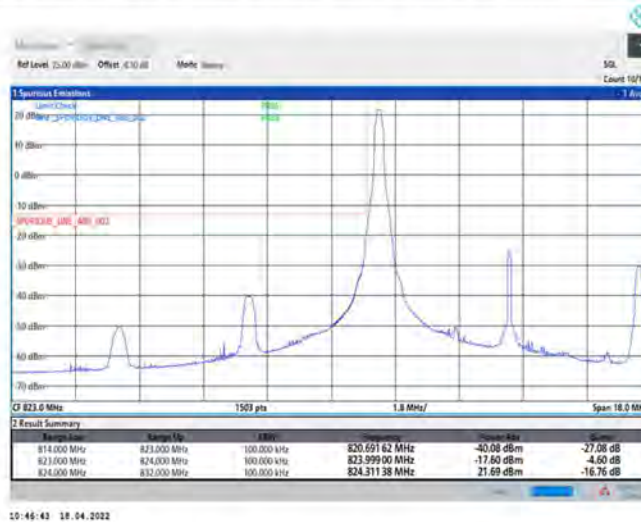
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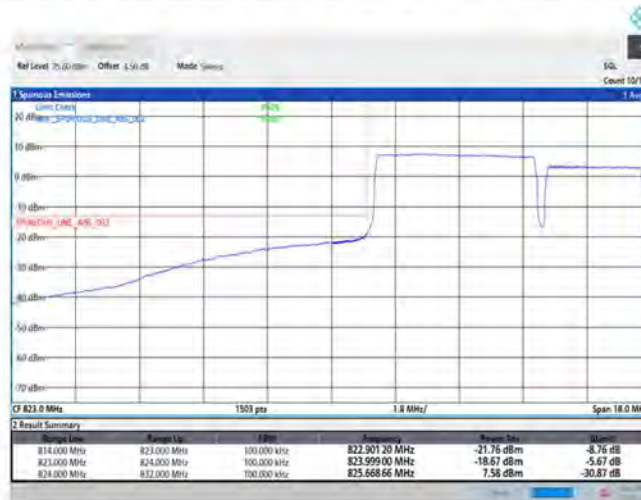
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10:46:43 18.04.2022

5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



10:47:39 18.04.2022



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Rev.: 01

Page: 60 of 71

5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-0RB#0-1RB#14



5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-25RB#0-15RB#0



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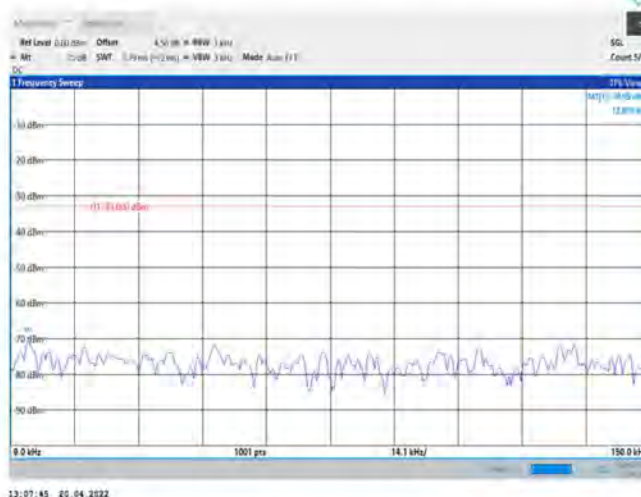
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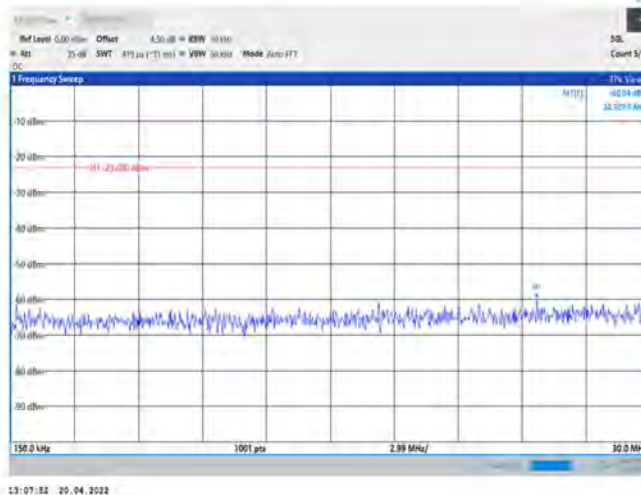
Conducted Spurious Emission

Test Graphs

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



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



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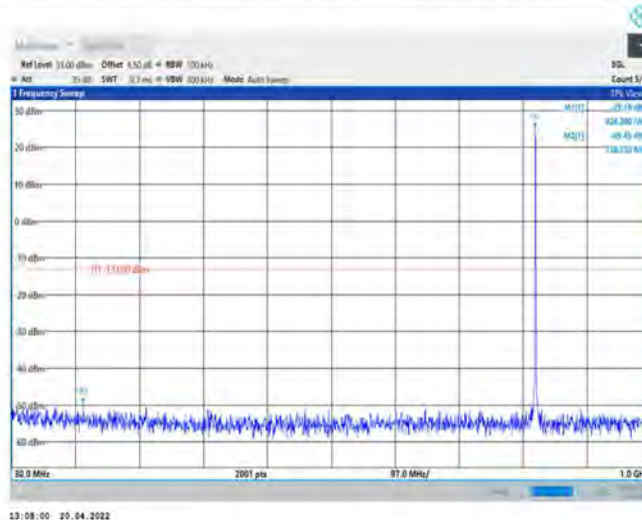
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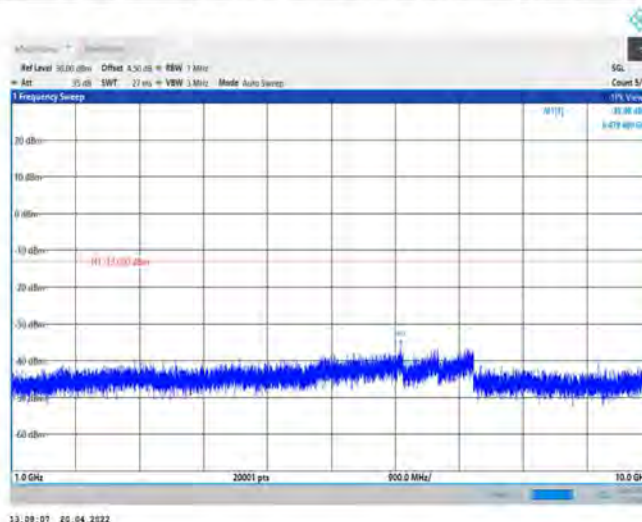
Rev.: 01

Page: 62 of 71

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



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



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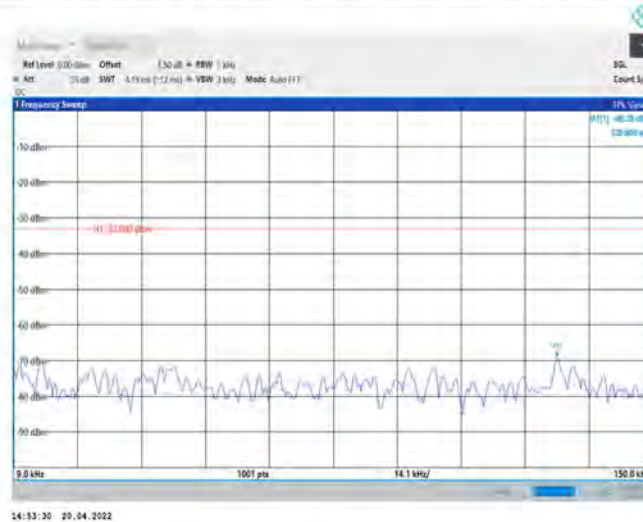
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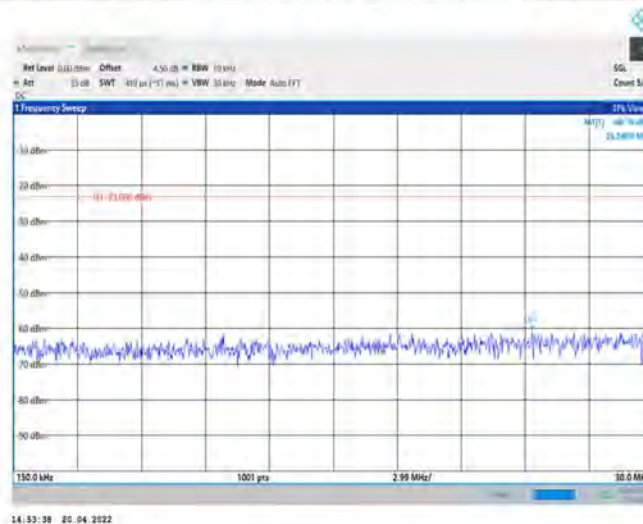
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Page: 63 of 71

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



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



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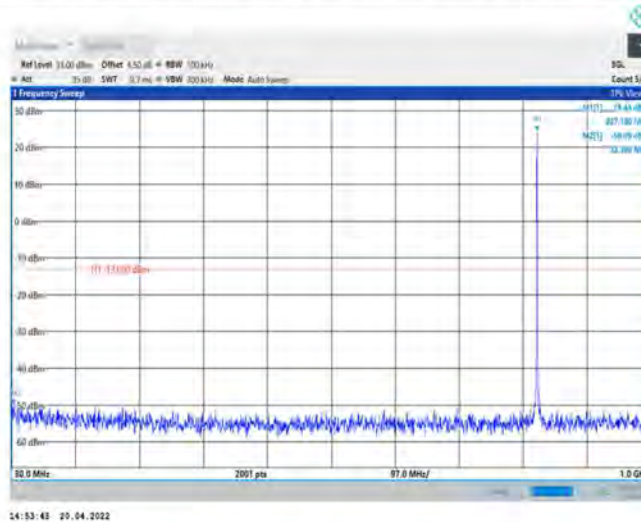
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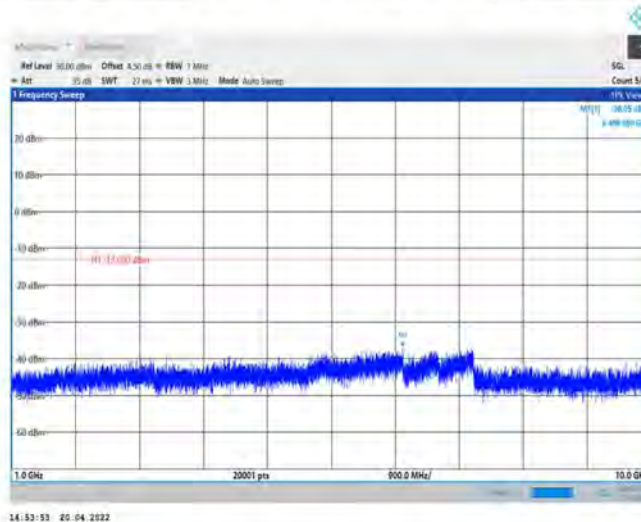
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Page: 64 of 71

5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-1000~10000MHz



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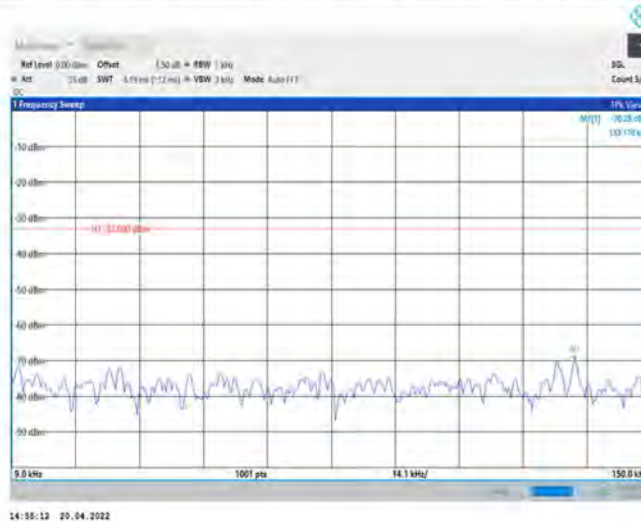
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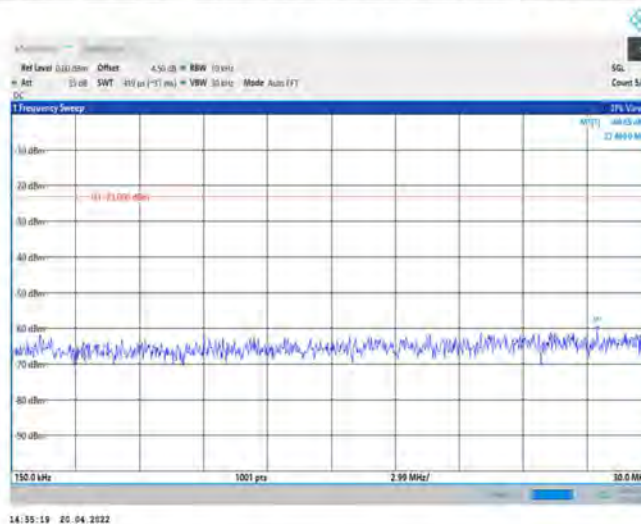
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Page: 65 of 71

5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



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



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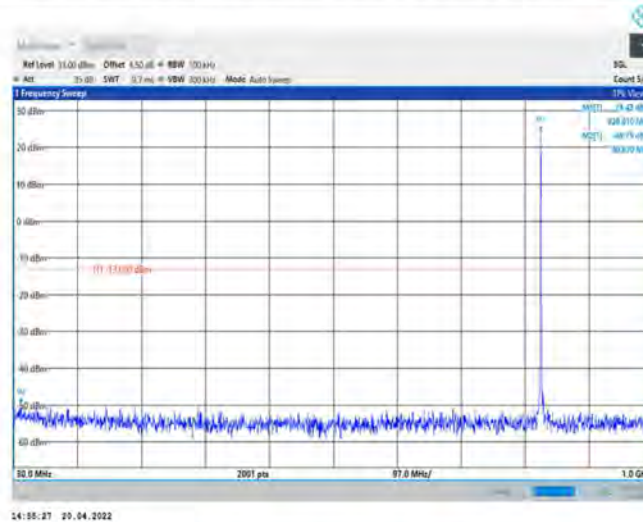
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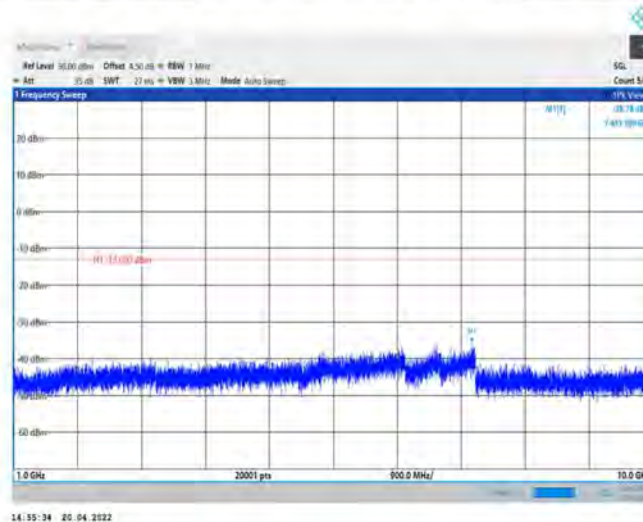
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Page: 66 of 71

5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



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



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Rev.: 01

Page: 67 of 71

Field Strength of Spurious Radiation

Test Band = UL CA Band 5B_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.18	56.97	-118.07	-61.10	-13.00	48.10	263	227	Horizontal
2	2436	57.62	-114.77	-57.15	-13.00	44.15	251	341	Horizontal
3	3298.36	52.23	-111.89	-59.66	-13.00	46.66	175	123	Horizontal
4	4122.95	49.52	-109.80	-60.28	-13.00	47.28	262	310	Horizontal
5	4947.54	51.36	-107.87	-56.51	-13.00	43.51	241	196	Horizontal
6	5772.1	50.77	-105.31	-54.54	-13.00	41.54	186	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.18	54.35	-118.07	-63.72	-13.00	50.72	263	360	Vertical
2	2432	67.49	-114.81	-47.32	-13.00	34.32	251	177	Vertical
3	3298.36	51.85	-111.89	-60.04	-13.00	47.04	174	71	Vertical
4	4122.95	48.93	-109.80	-60.87	-13.00	47.87	262	39	Vertical
5	4947.54	51.03	-107.87	-56.84	-13.00	43.84	251	126	Vertical
6	5772.1	50.28	-105.31	-55.03	-13.00	42.03	184	227	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 68 of 71

Test Band = UL CA Band 5B_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654	58.01	-118.06	-60.05	-13.00	47.05	263	235	Horizontal
2	2481.57	56.25	-114.29	-58.04	-13.00	45.04	251	111	Horizontal
3	3308.76	51.91	-111.91	-60.00	-13.00	47.00	174	235	Horizontal
4	4135.95	48.87	-109.74	-60.87	-13.00	47.87	186	193	Horizontal
5	4963.14	51.61	-107.81	-56.20	-13.00	43.20	264	0	Horizontal
6	5790.33	51.19	-105.24	-54.05	-13.00	41.05	188	308	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.36	53.29	-118.05	-64.76	-13.00	51.76	262	123	Vertical
2	2454	65.78	-114.58	-48.80	-13.00	35.80	268	290	Vertical
3	3308.76	50.80	-111.91	-61.11	-13.00	48.11	284	228	Vertical
4	4135.95	49.54	-109.74	-60.20	-13.00	47.20	176	360	Vertical
5	4963.14	50.70	-107.81	-57.11	-13.00	44.11	362	218	Vertical
6	5790.33	50.70	-105.24	-54.54	-13.00	41.54	305	348	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 69 of 71

Test Band = UL CA Band 5B_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1749.38	52.86	-118.03	-65.17	-13.00	52.17	263	207	Horizontal
2	2624.07	52.28	-114.12	-61.84	-13.00	48.84	251	1	Horizontal
3	3498.76	50.83	-111.91	-61.08	-13.00	48.08	142	331	Horizontal
4	4373.45	49.62	-108.89	-59.27	-13.00	46.27	262	29	Horizontal
5	5248.14	51.61	-106.72	-55.11	-13.00	42.11	281	12	Horizontal
6	6122.83	49.70	-103.73	-54.03	-13.00	41.03	176	186	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1749.38	53.39	-118.03	-64.64	-13.00	51.64	263	90	Vertical
2	2624.07	52.29	-114.12	-61.83	-13.00	48.83	251	50	Vertical
3	3498.76	50.93	-111.91	-60.98	-13.00	47.98	174	175	Vertical
4	4373.45	49.97	-108.89	-58.92	-13.00	45.92	284	300	Vertical
5	5248.14	52.01	-106.72	-54.71	-13.00	41.71	264	319	Vertical
6	6122.83	50.15	-103.73	-53.58	-13.00	40.58	188	3	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 70 of 71

Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 - 50RB#0	VH	NT	0.72	0.000866	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 - 50RB#0	VL	NT	0.73	0.000878	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 - 50RB#0	VN	NT	0.01	0.000012	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	-30	0.40	0.000481	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	-20	0.63	0.000758	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	-10	0.47	0.000565	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	0	0.66	0.000794	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	10	0.97	0.001166	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	20	0.65	0.000782	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	30	0.49	0.000589	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0 -50RB#0	NV	40	0.04	0.000048	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0	NV	50	0.53	0.000637	±2.5	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 71 of 71

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