

Report No.: SEWA2303000029RG01

Rev.: 01

Page: 1 of 67

Appendix B.19

LTE CA_5B



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 2 of 67

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	22.57	9.74	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	20.72	7.89	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	22.54	9.71	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	20.7	7.87	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	22.6	9.77	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	20.7	7.87	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	21.77	8.94	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	19.79	6.96	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	21.8	8.97	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	19.69	6.86	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	21.78	8.95	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	19.74	6.91	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	20.78	7.95	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	19.76	6.93	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	20.94	8.11	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	19.69	6.86	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	20.86	8.03	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	19.72	6.89	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	1RB#0-0RB#0	17.66	4.83	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	17.72	4.89	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	1RB#0-0RB#0	17.75	4.92	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	17.66	4.83	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	1RB#0-0RB#0	17.78	4.95	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	17.67	4.84	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	22.47	9.64	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	20.76	7.93	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	22.5	9.67	38.45	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 3 of 67

5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	20.74	7.91	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	22.55	9.72	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	20.82	7.99	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	21.76	8.93	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	19.77	6.94	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	21.8	8.97	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	19.74	6.91	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	21.93	9.1	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	19.83	7	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	20.82	7.99	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	19.85	7.02	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	20.88	8.05	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	19.78	6.95	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	20.81	7.98	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	19.81	6.98	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	1RB#0-0RB#0	17.72	4.89	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	17.73	4.9	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	1RB#0-0RB#0	17.72	4.89	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	17.77	4.94	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	1RB#0-0RB#0	17.74	4.91	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	17.83	5	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	22.82	9.99	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	1RB#0-0RB#0	22.8	9.97	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	22.8	9.97	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	1RB#0-0RB#0	22.82	9.99	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	22.9	10.07	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	1RB#0-0RB#0	22.81	9.98	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	22.83	10	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	1RB#0-0RB#0	23.07	10.24	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	22.83	10	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	1RB#0-0RB#0	23.1	10.27	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	22.92	10.09	38.45	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 4 of 67

5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	1RB#0-0RB#0	23.12	10.29	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	22.88	10.05	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	1RB#0-0RB#0	23.15	10.32	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	22.89	10.06	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	1RB#0-0RB#0	23.15	10.32	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	22.93	10.1	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	1RB#0-0RB#0	23.11	10.28	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	22.81	9.98	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	1RB#0-0RB#0	23.04	10.21	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	22.83	10	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	1RB#0-0RB#0	23.01	10.18	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	22.95	10.12	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	1RB#0-0RB#0	23.11	10.28	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	22.53	9.7	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	20.75	7.92	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	22.45	9.62	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	20.67	7.84	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	22.45	9.62	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	20.77	7.94	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	21.76	8.93	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	19.79	6.96	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	21.73	8.9	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	19.69	6.86	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	21.78	8.95	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	19.73	6.9	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	20.88	8.05	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	19.75	6.92	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	20.66	7.83	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	19.72	6.89	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	20.8	7.97	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	19.75	6.92	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	1RB#0-0RB#0	17.64	4.81	38.45	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 5 of 67

5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	17.73	4.9	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	1RB#0-0RB#0	17.69	4.86	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	17.74	4.91	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	1RB#0-0RB#0	17.79	4.96	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	17.77	4.94	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	1RB#0-0RB#0	22.51	9.68	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	22.85	10.02	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	1RB#0-0RB#0	22.53	9.7	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	22.79	9.96	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	1RB#0-0RB#0	22.6	9.77	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	22.87	10.04	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	1RB#0-0RB#0	22.85	10.02	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	22.83	10	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	1RB#0-0RB#0	22.78	9.95	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	22.79	9.96	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	1RB#0-0RB#0	22.92	10.09	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	22.87	10.04	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	1RB#0-0RB#0	22.91	10.08	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	22.8	9.97	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	1RB#0-0RB#0	22.98	10.15	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	22.79	9.96	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	1RB#0-0RB#0	22.93	10.1	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	22.86	10.03	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	1RB#0-0RB#0	22.82	9.99	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	22.78	9.95	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	1RB#0-0RB#0	22.79	9.96	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	22.76	9.93	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	1RB#0-0RB#0	22.81	9.98	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	22.85	10.02	38.45	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 6 of 67

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	6.18	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	6.18	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	6.86	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	6.86	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	6.80	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	7.18	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	7.12	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	7.08	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	7.32	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	7.24	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	7.08	13	PASS



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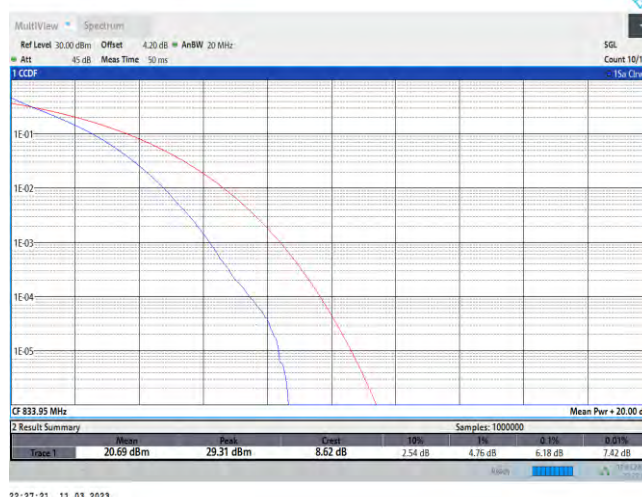
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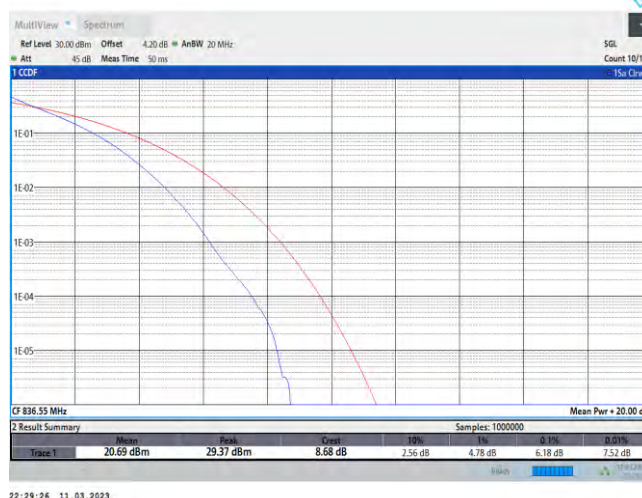
Page: 7 of 67

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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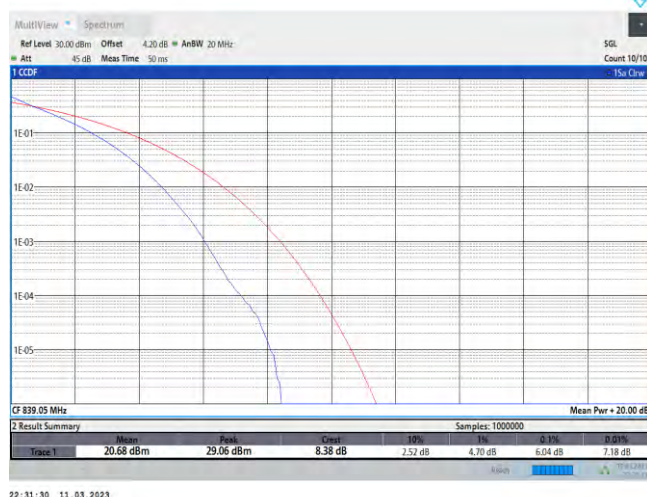
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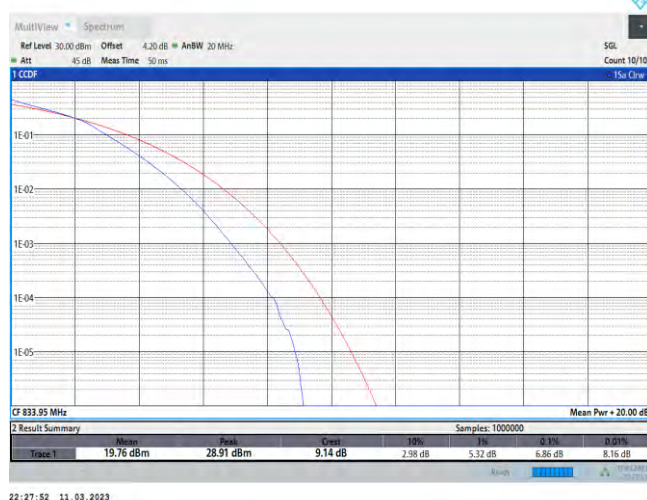
Rev.: 01

Page: 8 of 67

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



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



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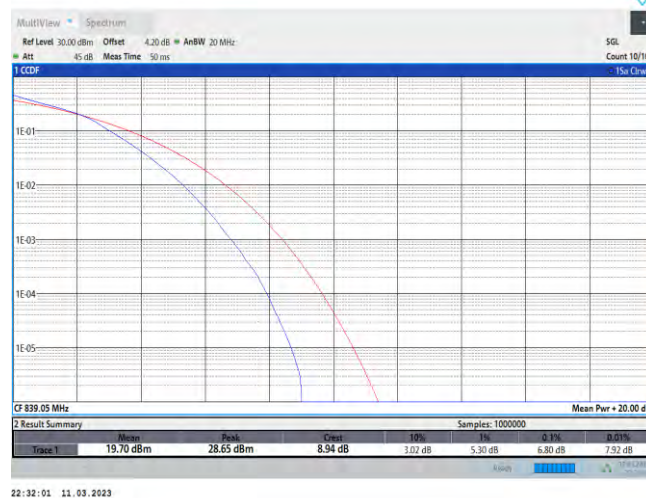
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Page: 9 of 67

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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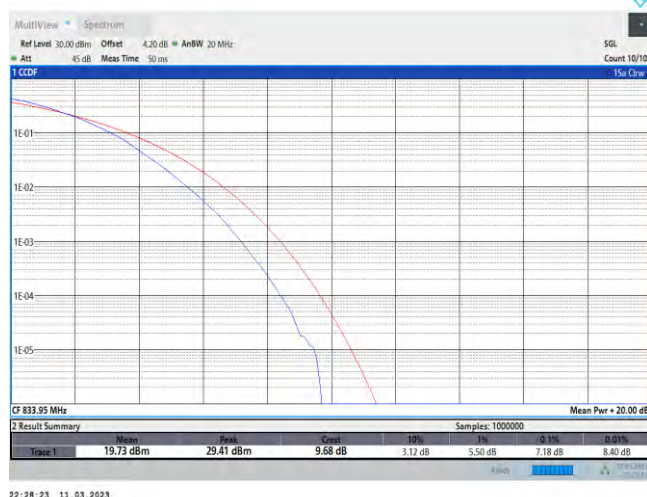
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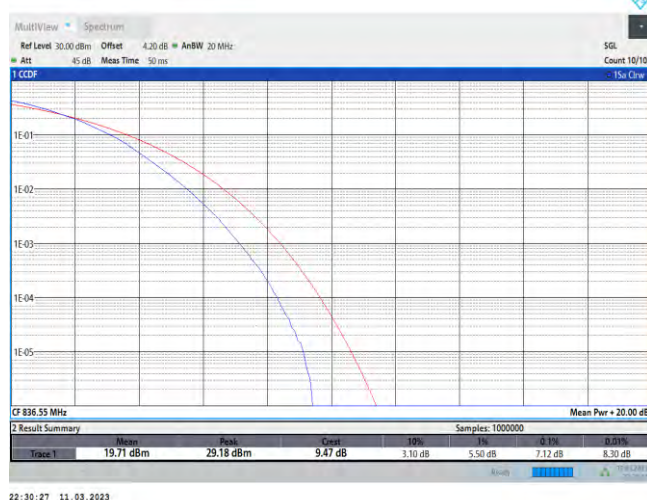
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Page: 10 of 67

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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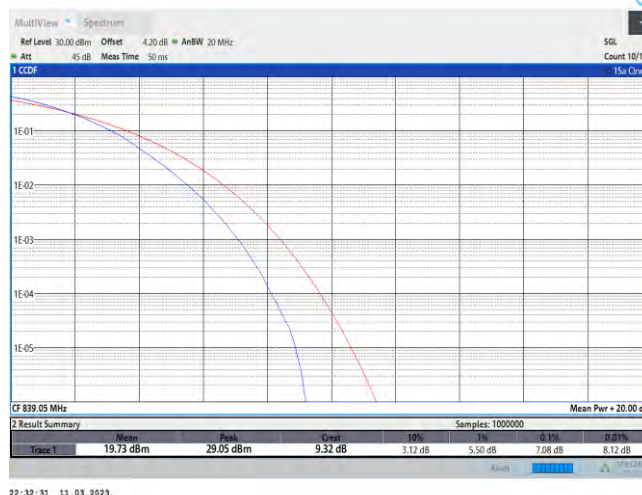
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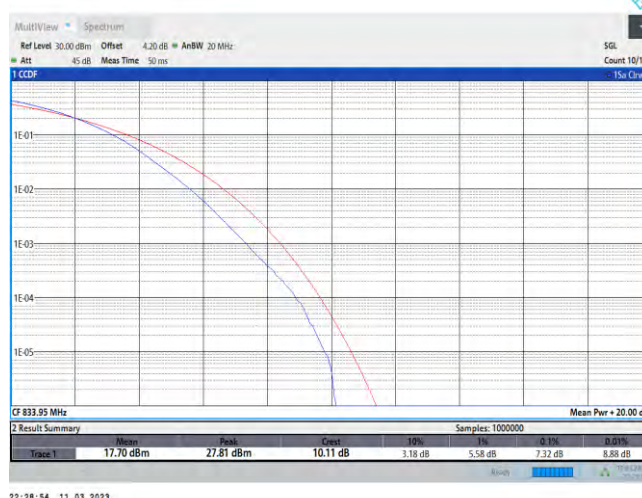
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Page: 11 of 67

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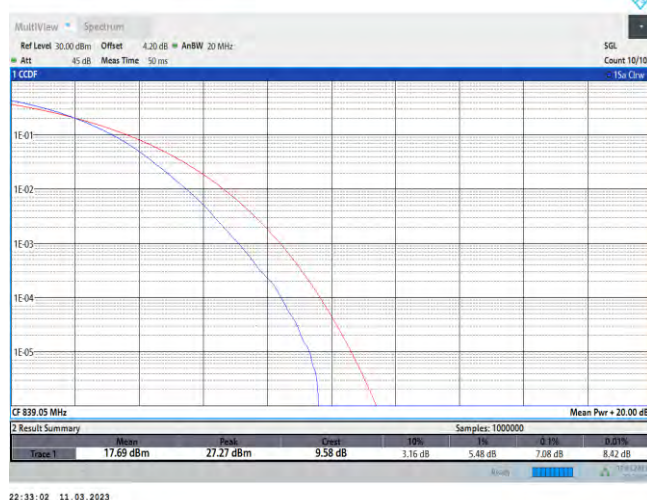
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5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



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



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 13 of 67

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result
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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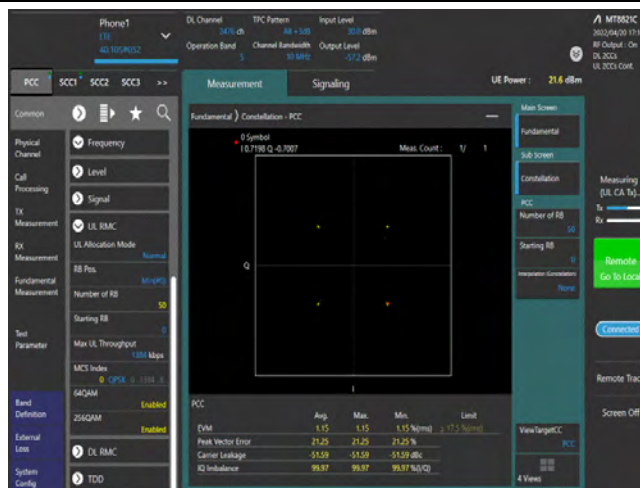
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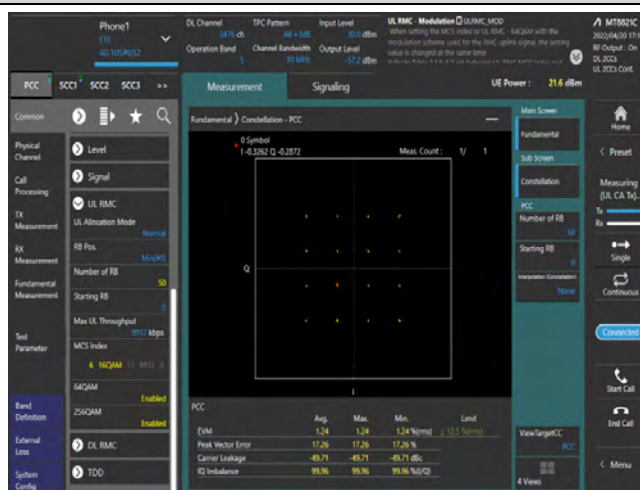
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 Rev.: 01
 Page: 14 of 67

Test Graphs

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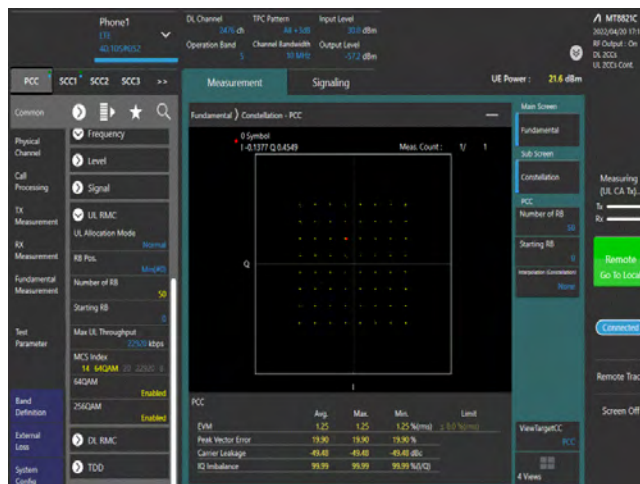
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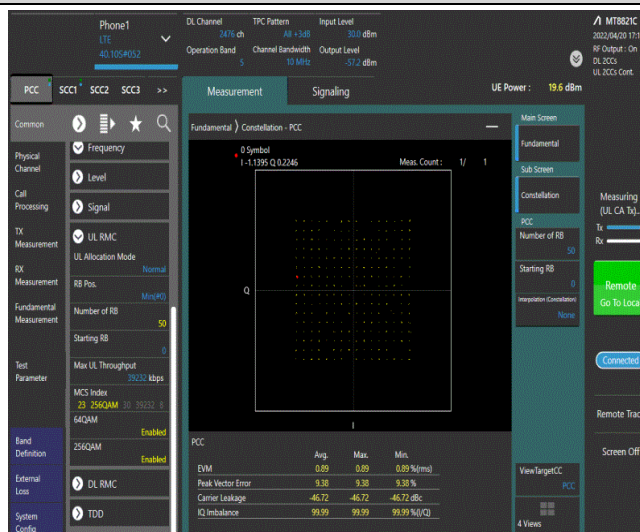
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5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



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	18.834	20.08	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.802	20.20	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	18.796	20.20	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	18.794	20.12	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.786	20.00	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	18.779	20.12	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	18.783	20.16	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.775	20.12	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	18.69	20.04	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	18.781	20.08	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.755	20.12	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.73	20.08	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	13.863	14.82	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.852	14.76	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	13.829	14.79	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	13.857	14.73	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.826	14.73	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	13.819	14.82	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	13.859	14.85	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.829	14.76	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	13.798	14.76	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	13.877	14.85	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	13.838	14.79	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	13.845	14.88	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	7.447	7.95	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	7.455	7.94	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	7.451	7.94	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	7.447	7.94	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	7.457	7.95	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	7.439	7.92	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	7.431	7.95	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 17 of 67

5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	7.455	8.00	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	7.439	7.97	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	7.448	7.97	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	7.479	7.97	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	7.467	7.95	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	13.841	14.79	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.803	14.79	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	13.81	14.76	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	13.816	14.64	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.794	14.58	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	13.81	14.64	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	13.847	14.73	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.815	14.70	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	13.808	14.61	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	13.832	14.70	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	13.813	14.73	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	13.781	14.64	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	7.468	8.03	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	7.473	8.03	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	7.468	8.00	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	7.499	8.06	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	7.495	8.02	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	7.476	8.06	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	7.493	8.06	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	7.48	8.02	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	7.481	8.02	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	7.486	8.05	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	7.478	8.06	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	7.48	8.05	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 18 of 67

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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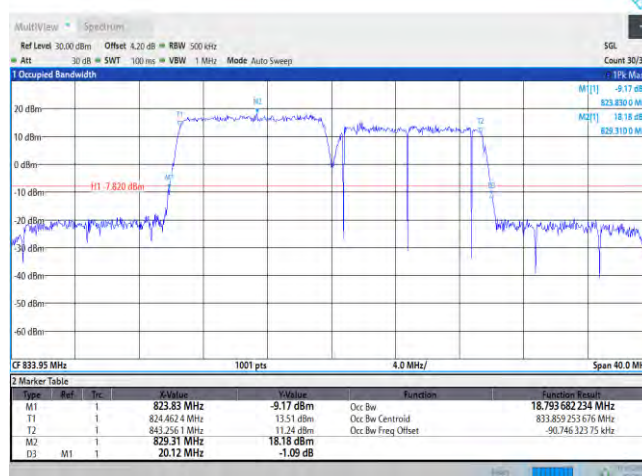
Page: 19 of 67

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



22:37:58 11.03.2023

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



22:34:16 11.03.2023



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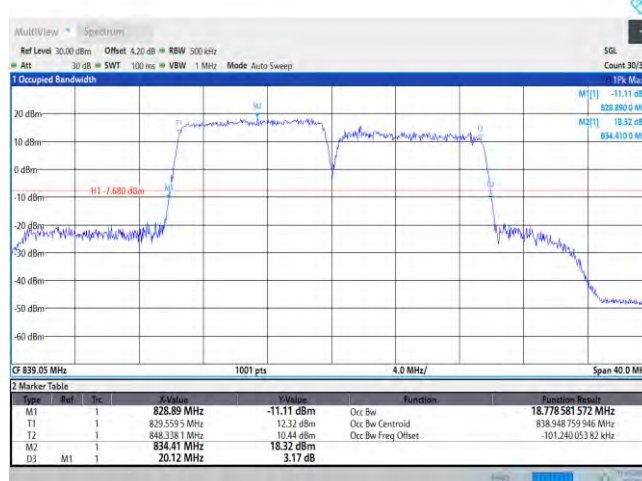
Page: 20 of 67

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



22:36:22 11.03.2023

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



22:38:29 11.03.2023



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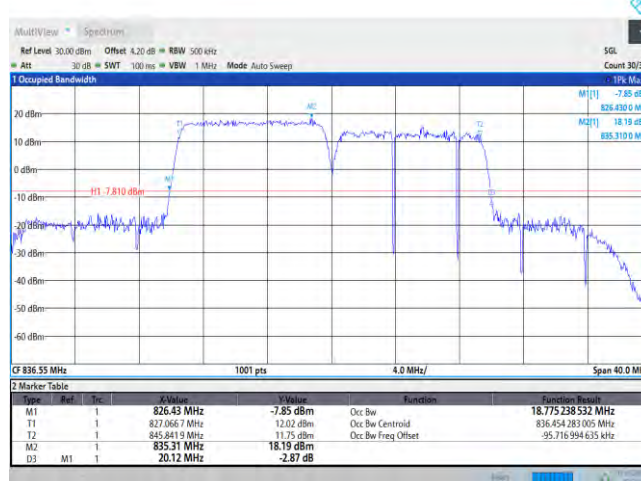
Page: 21 of 67

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



22:34:47 11.03.2023

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



22:36:54 11.03.2023



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Rev.: 01

Page: 22 of 67

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



22:39:00 11.03.2023

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



22:35:19 11.03.2023



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Rev.: 01

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



22:37:25 11.03.2023

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



22:39:32 11.03.2023



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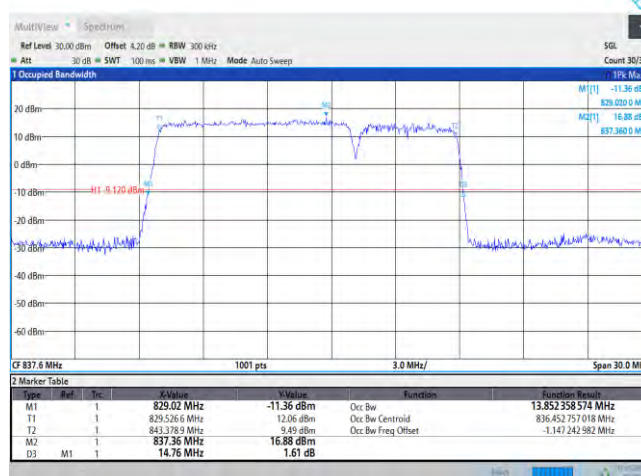
Page: 24 of 67

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



22:08:07 11.03.2023

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



22:10:13 11.03.2023



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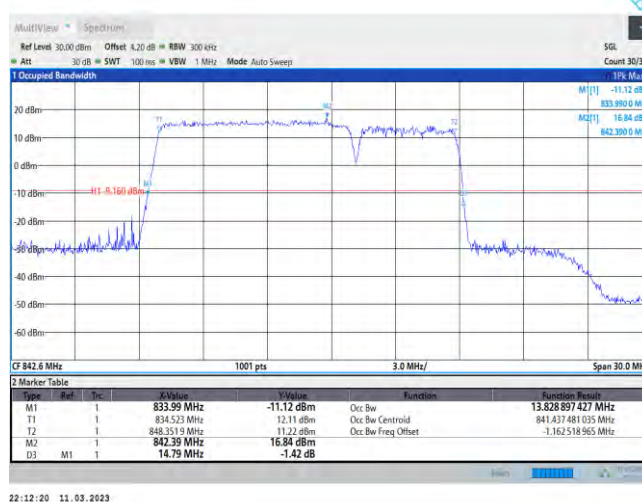
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 25 of 67

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



22:12:20 11.03.2023

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



22:08:38 11.03.2023



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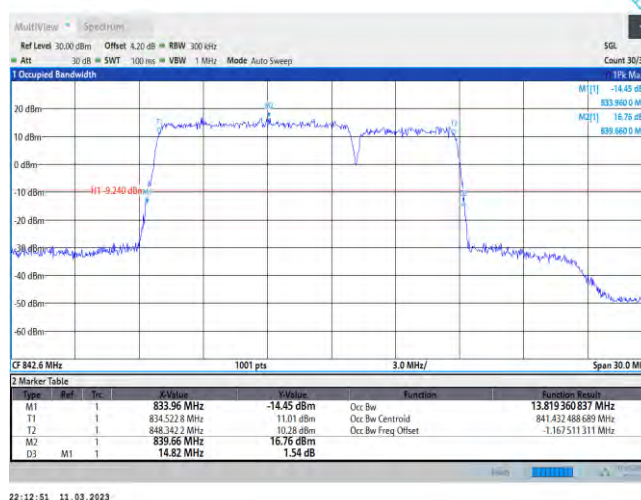
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5-5-10MHz-5MHz-16QAM-16QAM-20500-20572-50RB#0-25RB#0



22:10:45 11.03.2023

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



22:12:51 11.03.2023



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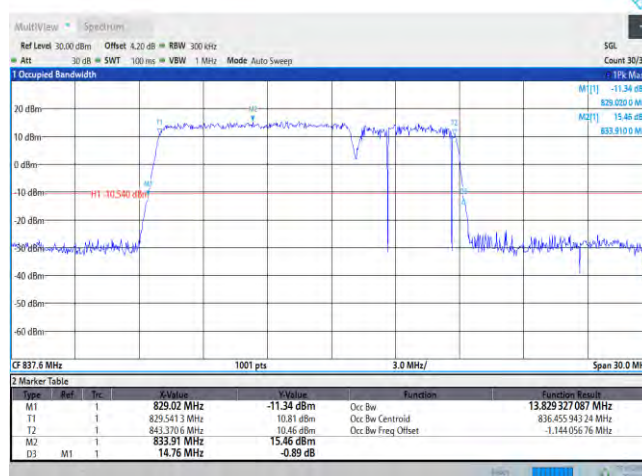
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5-5-10MHz-5MHz-64QAM-64QAM-20450-20522-50RB#0-25RB#0



22:09:09 11.03.2023

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



22:11:16 11.03.2023



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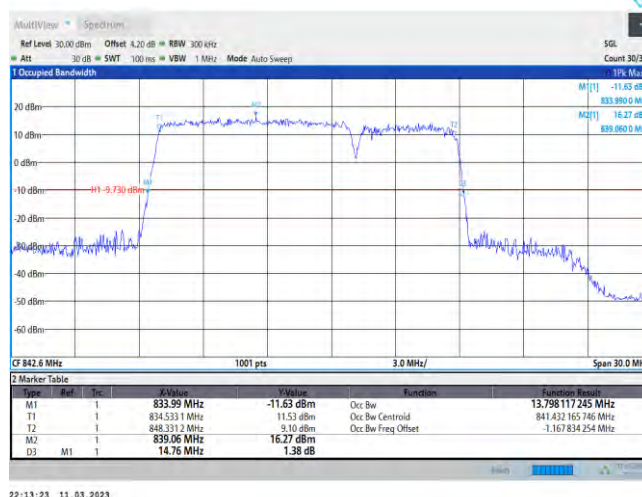
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 28 of 67

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



22:13:23 11.03.2023

5-5-10MHz-5MHz-256QAM-256QAM-20450-20522-50RB#0-25RB#0



22:09:41 11.03.2023



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 29 of 67

5-5-10MHz-5MHz-256QAM-256QAM-20500-20572-50RB#0-25RB#0



22:11:47 11.03.2023

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22:13:54 11.03.2023



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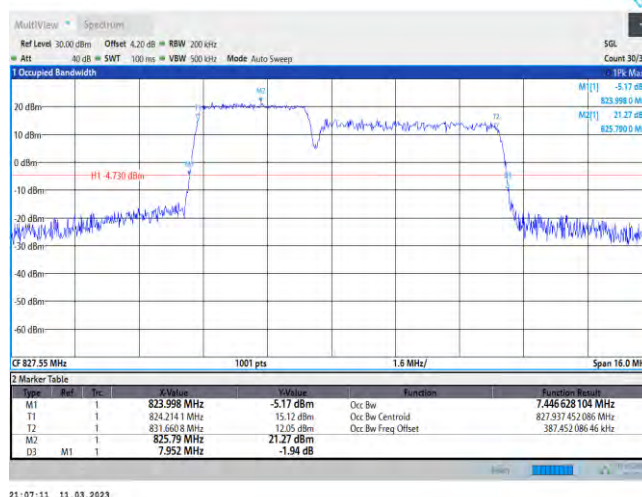
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 30 of 67

5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



21:07:11 11.03.2023

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



21:09:19 11.03.2023



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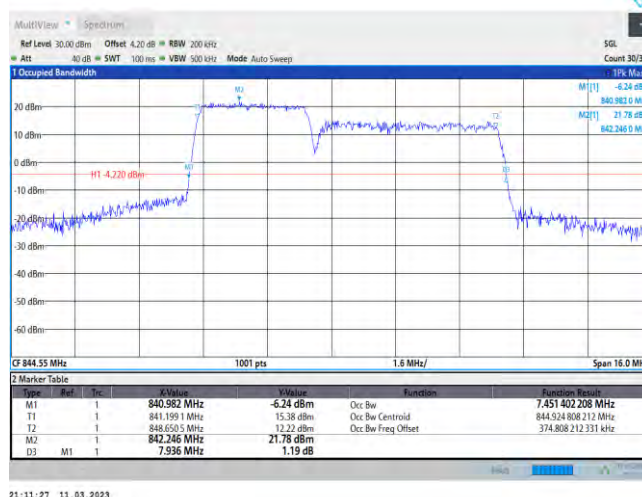
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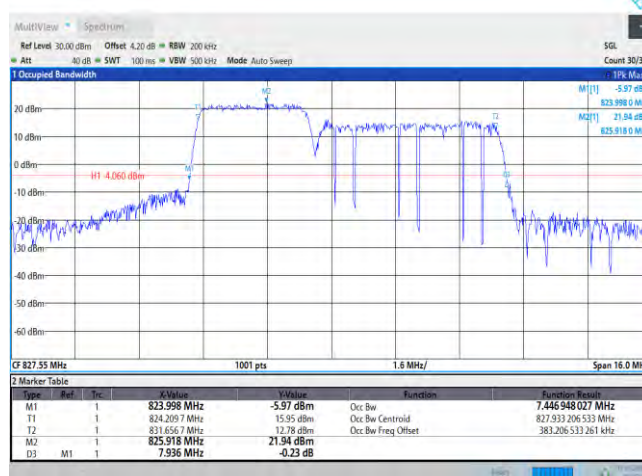
Page: 31 of 67

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



21:11:27 11.03.2023

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



21:07:42 11.03.2023



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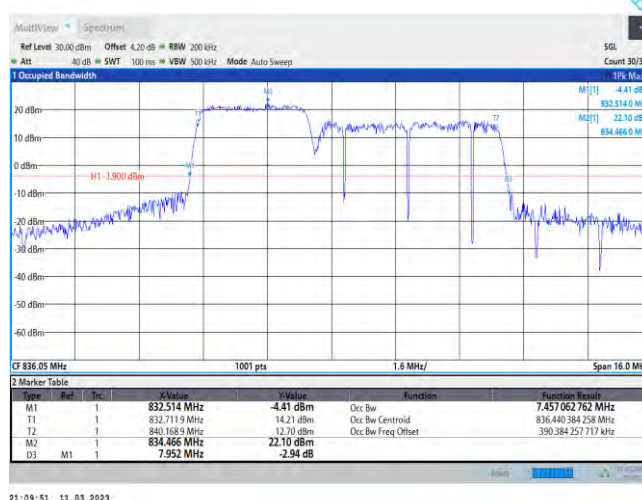
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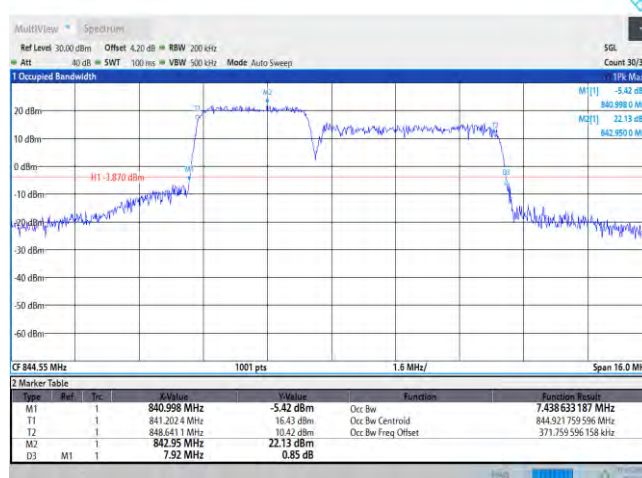
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5-5-3MHz-5MHz-16QAM-16QAM-20501-20540-15RB#0-25RB#0



21:09:51 11.03.2023

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21:11:59 11.03.2023



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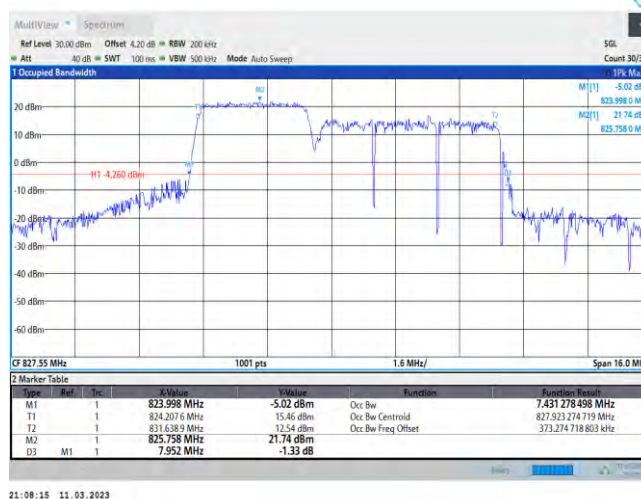
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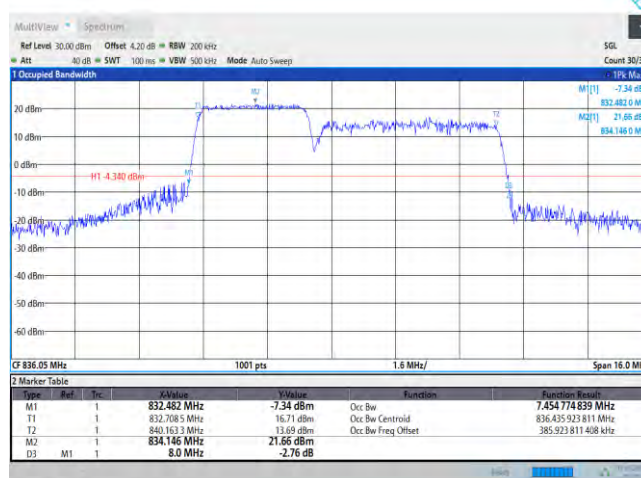
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21:08:15 11.03.2023

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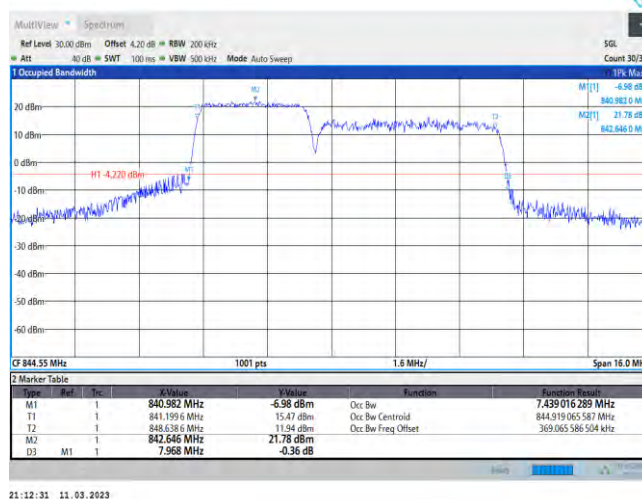
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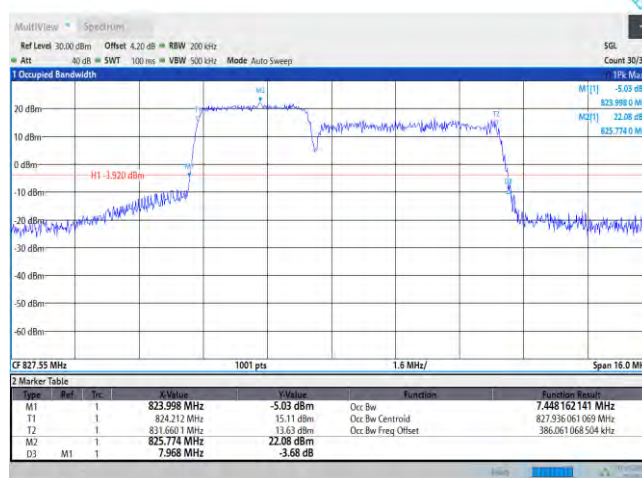
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21:12:31 11.03.2023

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21:08:46 11.03.2023



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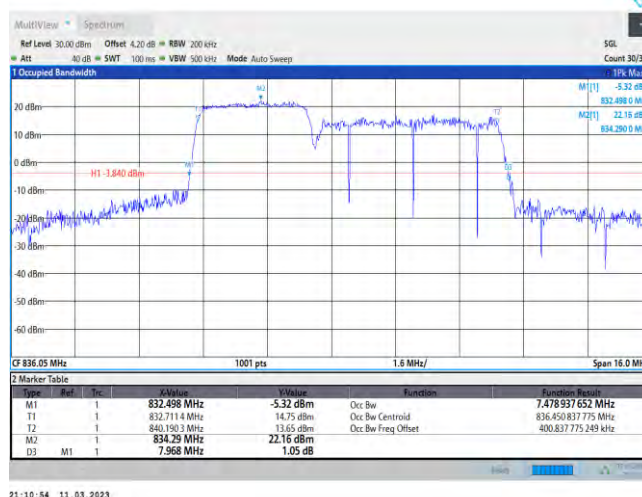
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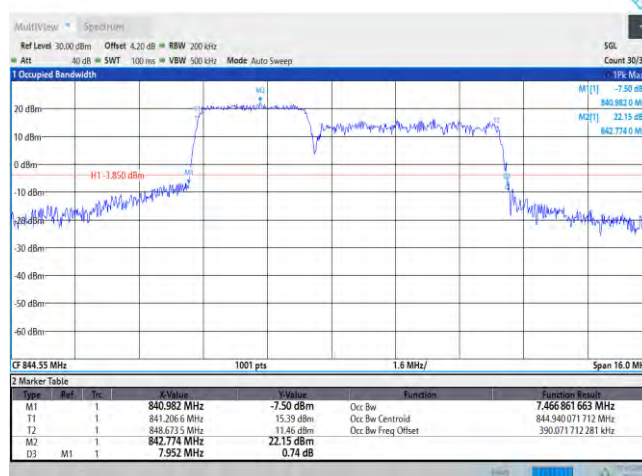
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5-5-3MHz-5MHz-256QAM-256QAM-20501-20540-15RB#0-25RB#0



21:10:54 11.03.2023

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21:13:03 11.03.2023



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 36 of 67

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



21:48:54 11.03.2023

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21:51:01 11.03.2023



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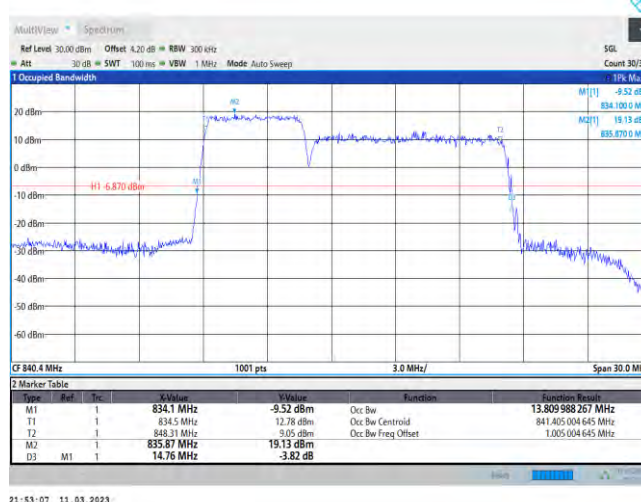
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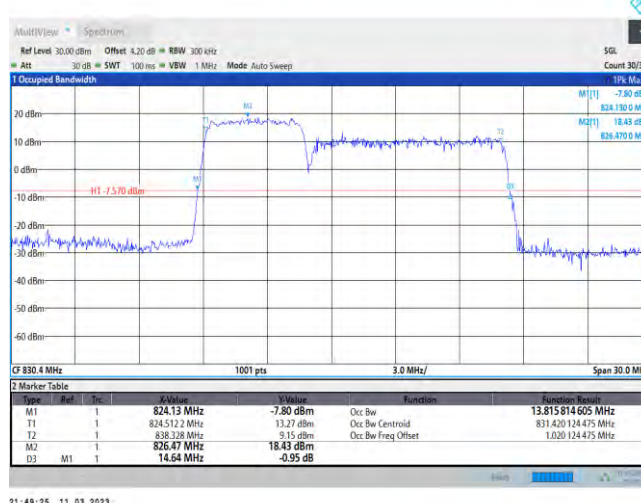
Page: 37 of 67

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



21:53:07 11.03.2023

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



21:49:25 11.03.2023



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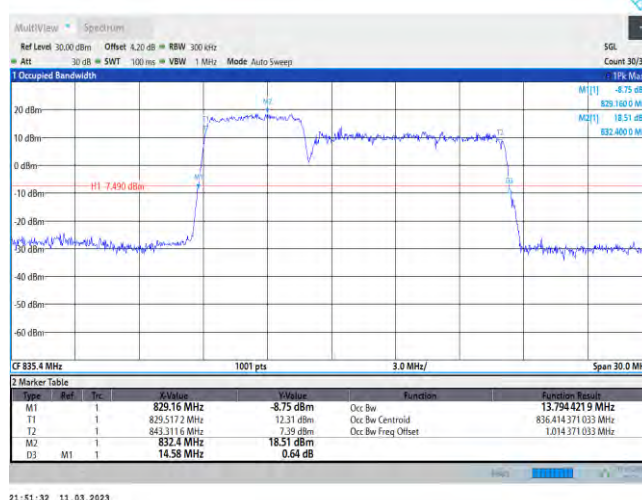
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 38 of 67

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



21:51:32 11.03.2023

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



21:53:39 11.03.2023



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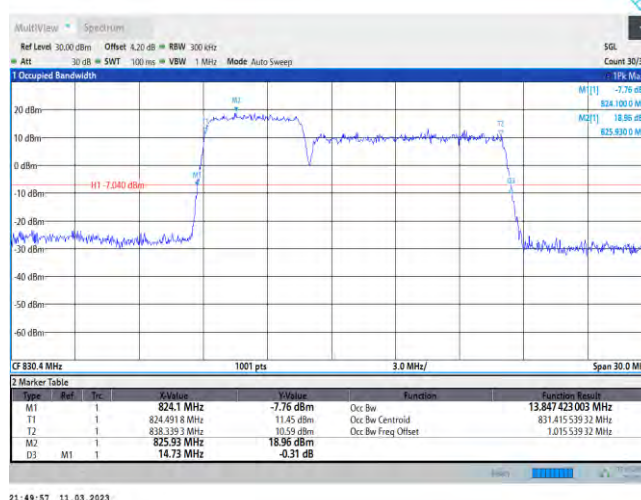
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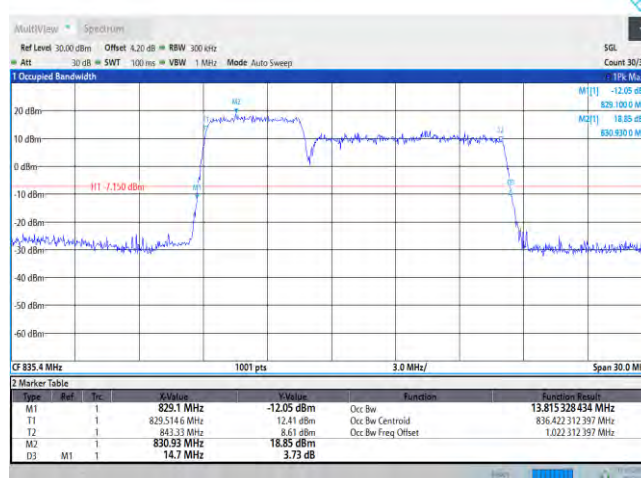
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5-5-5MHz-10MHz-64QAM-64QAM-20428-20500-25RB#0-50RB#0



21:49:57 11.03.2023

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



21:52:04 11.03.2023



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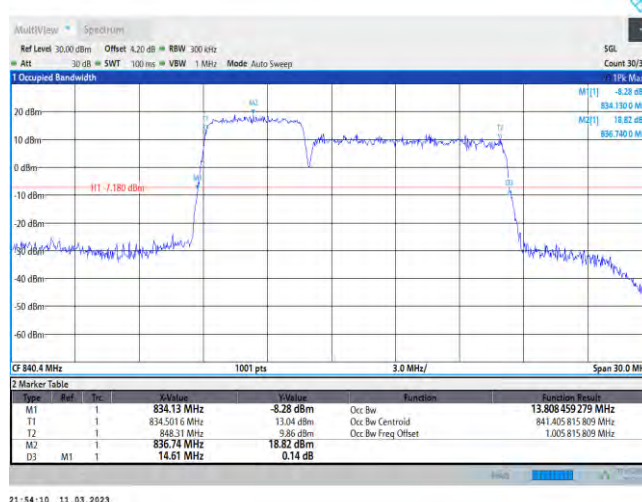
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 40 of 67

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



21:54:10 11.03.2023

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



21:50:28 11.03.2023



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Rev.: 01

Page: 41 of 67

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21:52:35 11.03.2023

5-5-5MHz-10MHz-256QAM-256QAM-20528-20600-25RB#0-50RB#0



21:54:42 11.03.2023



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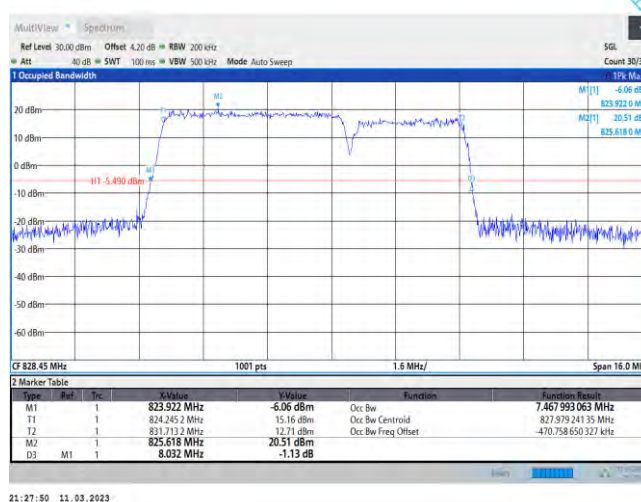
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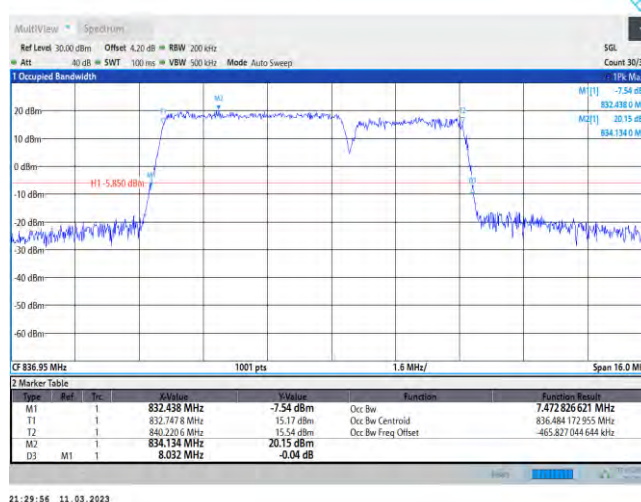
Rev.: 01

Page: 42 of 67

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



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



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Report No.: SEWA2303000029RG01

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Page: 43 of 67

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



21:32:03 11.03.2023

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



21:28:21 11.03.2023



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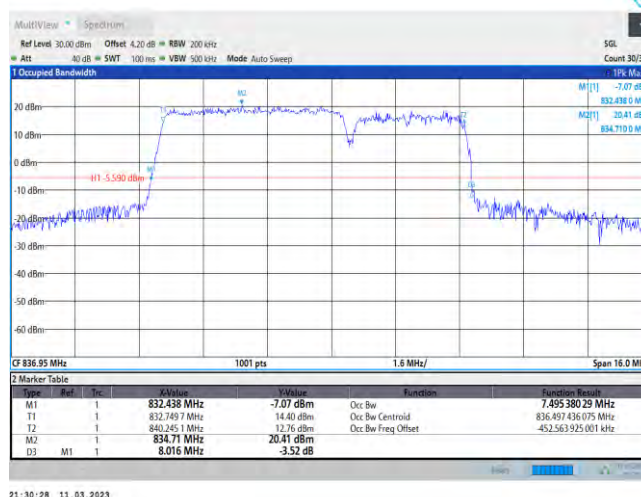
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Rev.: 01

Page: 44 of 67

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



21:30:28 11.03.2023

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



21:32:34 11.03.2023



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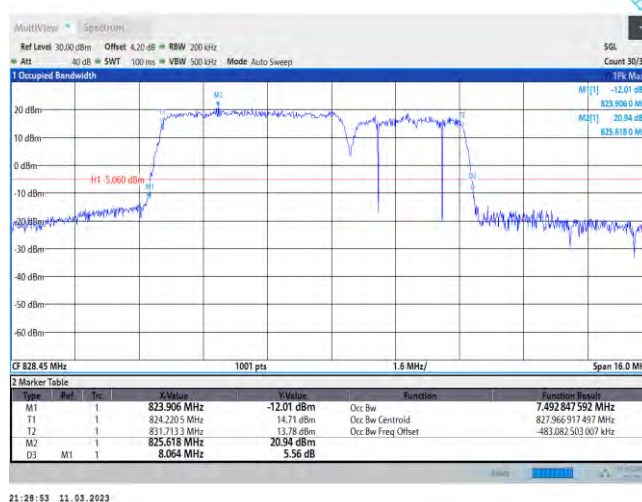
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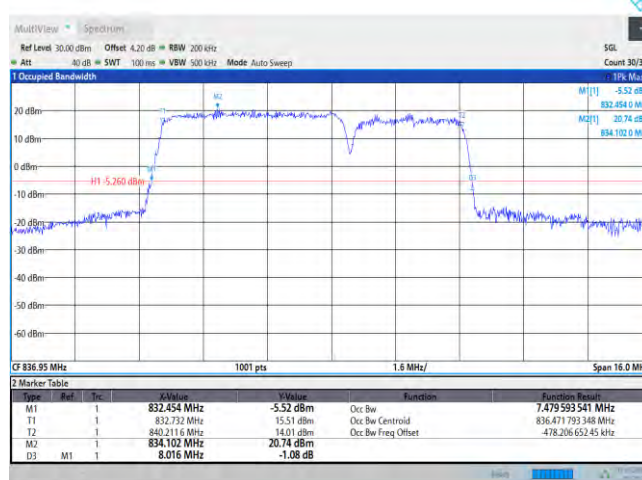
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21:28:53 11.03.2023

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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 46 of 67

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



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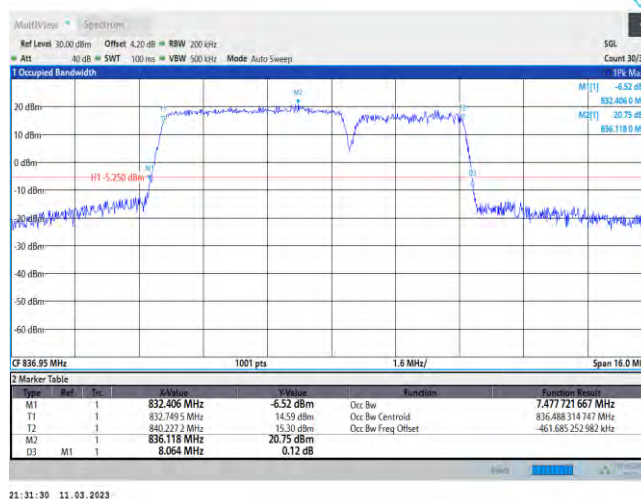
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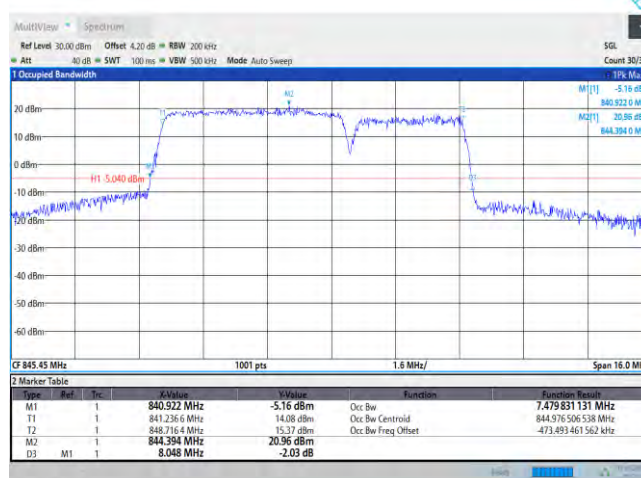
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5-5-5MHz-3MHz-256QAM-256QAM-20510-20549-25RB#0-15RB#0



21:31:30 11.03.2023

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21:33:37 11.03.2023



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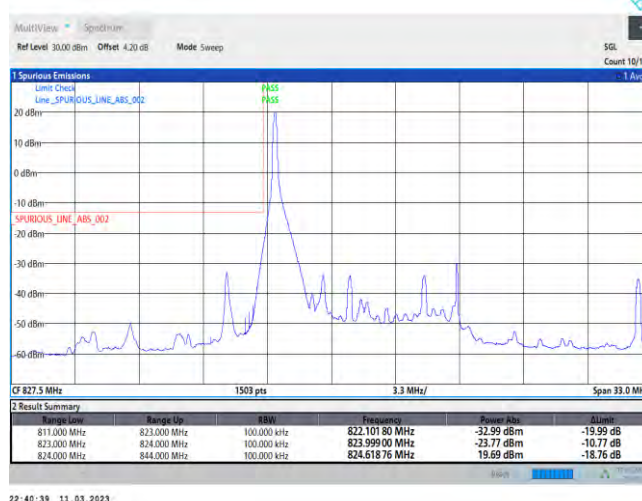
Rev.: 01

Page: 48 of 67

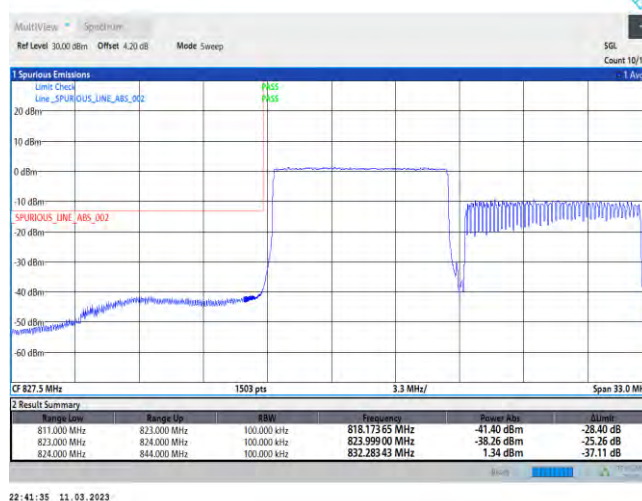
Band Edge

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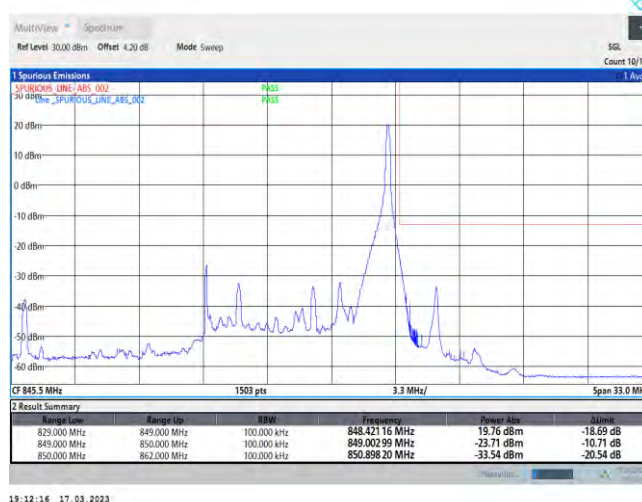
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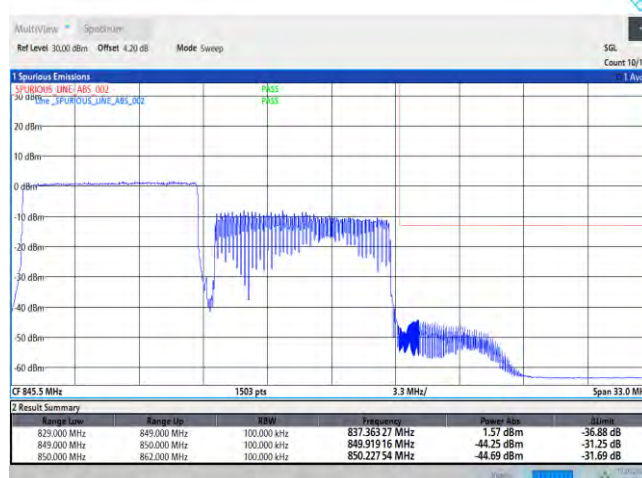
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-0RB#0-1RB#49



19:12:16 17.03.2023

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



19:15:27 17.03.2023



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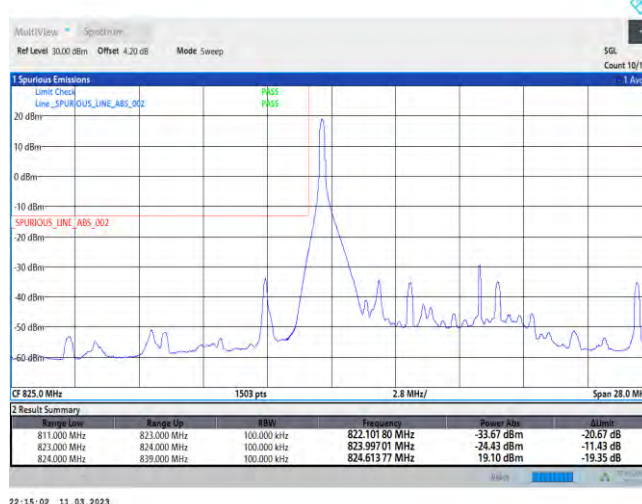
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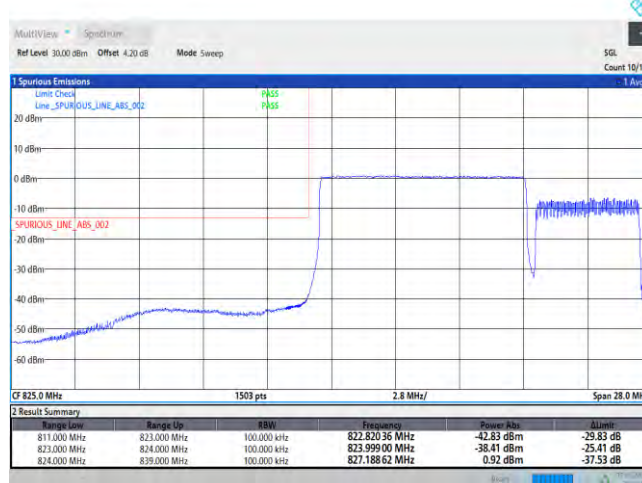
Page: 50 of 67

5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-1RB#0-0RB#0



22:15:02 11.03.2023

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



22:15:58 11.03.2023



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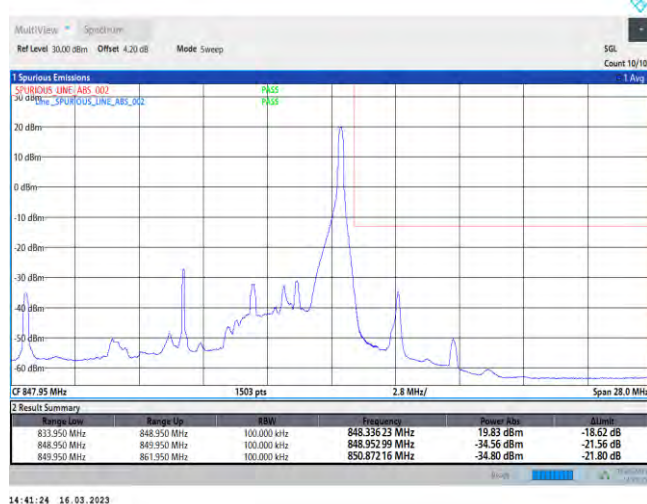
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 51 of 67

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



14:41:24 16.03.2023

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



14:42:20 16.03.2023



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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 52 of 67

5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



21:15:08 11.03.2023

5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-1RB#0-0RB#0



21:14:12 11.03.2023



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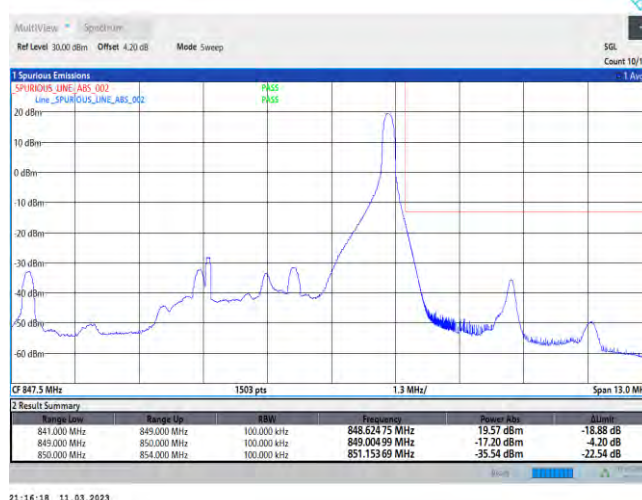
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 53 of 67

5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-0RB#0-1RB#24



21:16:18 11.03.2023

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



21:17:14 11.03.2023



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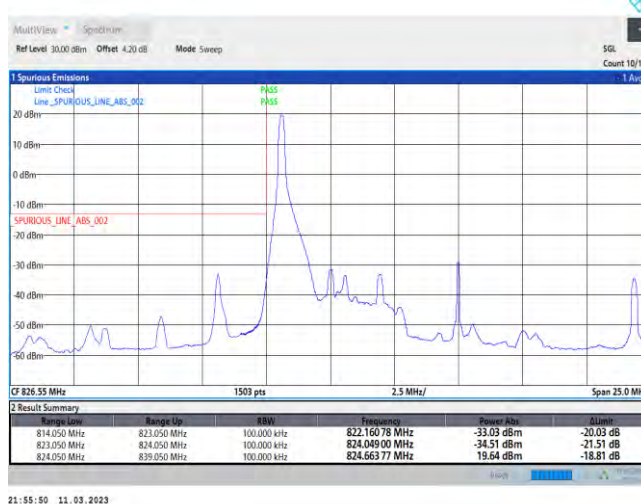
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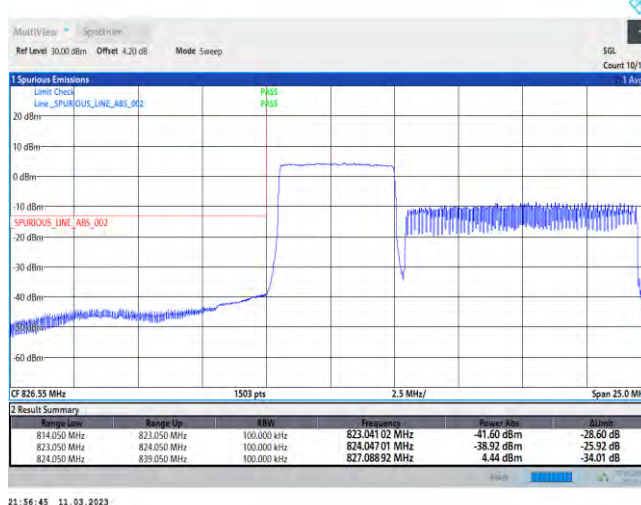
Page: 54 of 67

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



21:55:50 11.03.2023

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



21:56:45 11.03.2023



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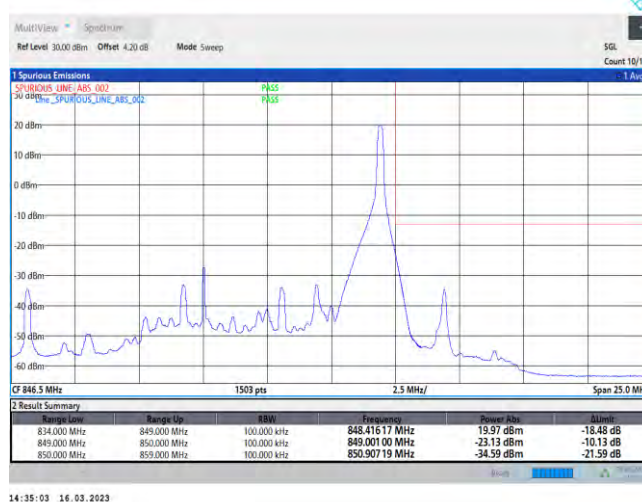
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Report No.: SEWA2303000029RG01

Rev.: 01

Page: 55 of 67

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



14:35:03 16.03.2023

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



14:35:59 16.03.2023



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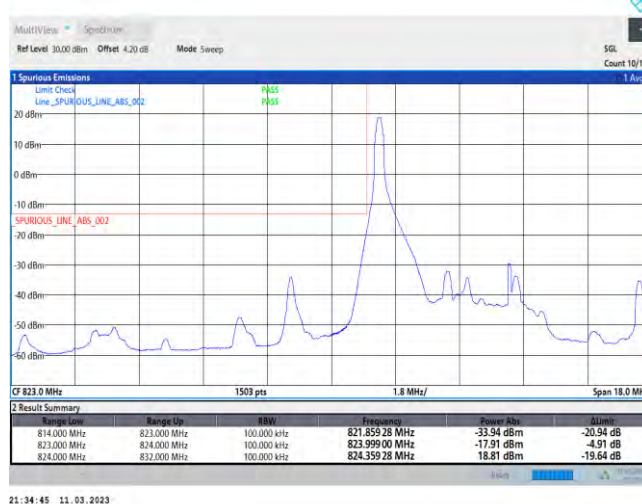
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5-5MHz-3MHz-QPSK-QPSK-20425-20464-1RB#0-0RB#0



21:34:45 11.03.2023

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



21:35:40 11.03.2023



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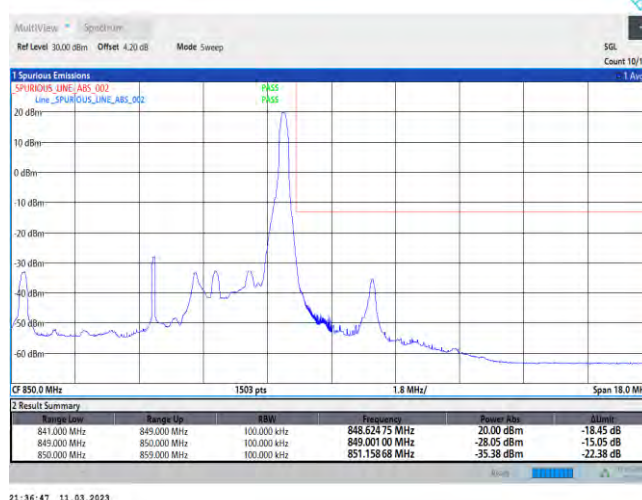
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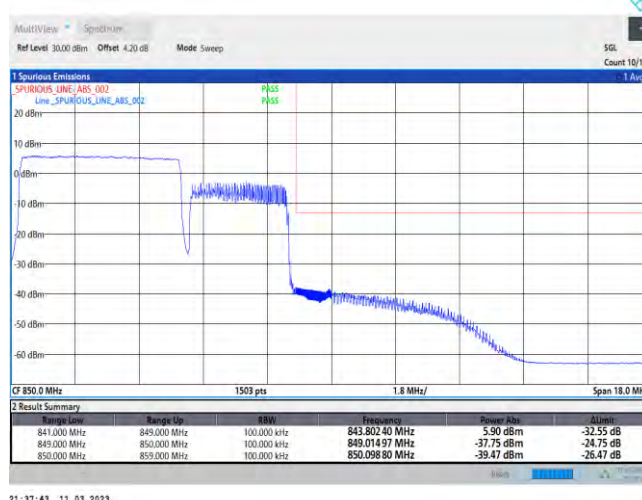
Page: 57 of 67

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



21:36:47 11.03.2023

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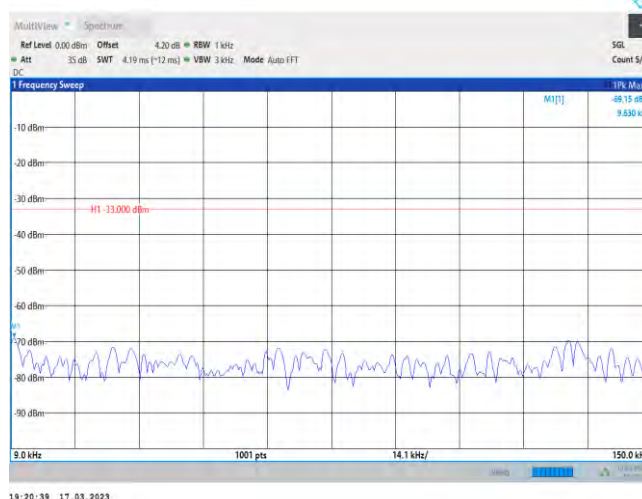
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Page: 58 of 67

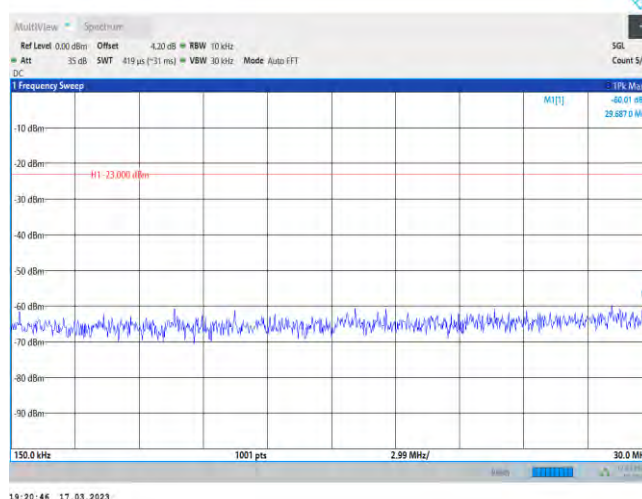
Conducted Spurious Emission

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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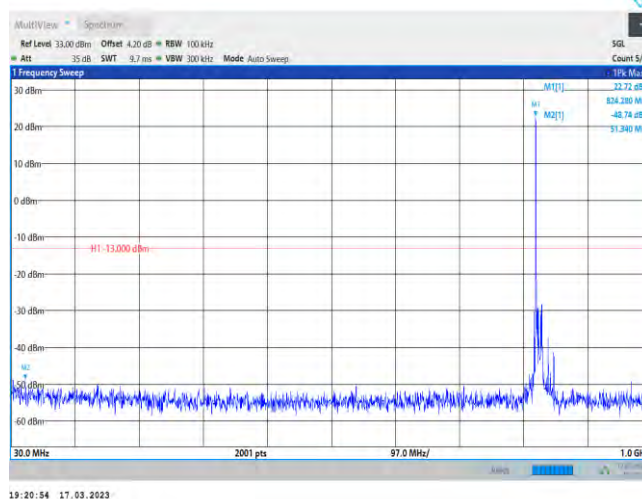
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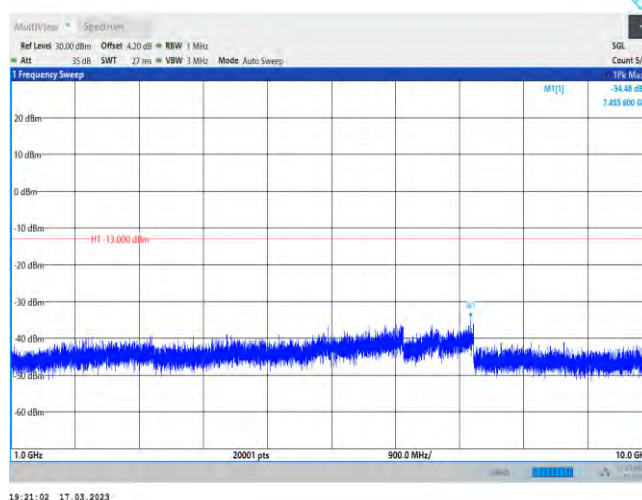
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Page: 59 of 67

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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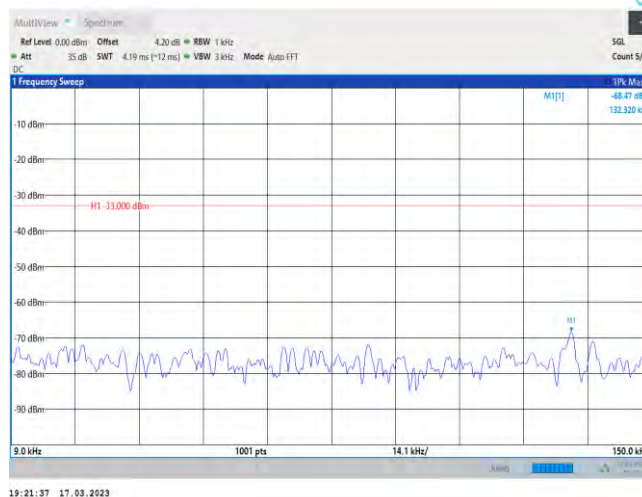
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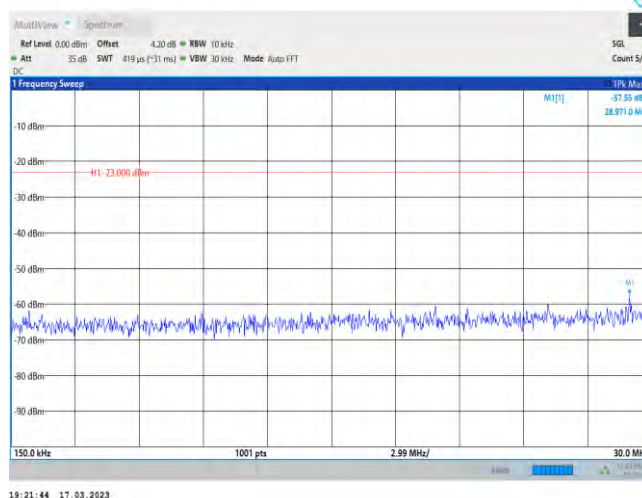
Rev.: 01

Page: 60 of 67

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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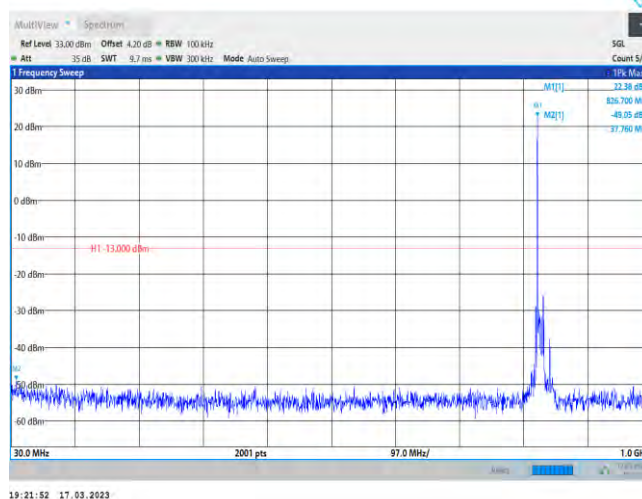
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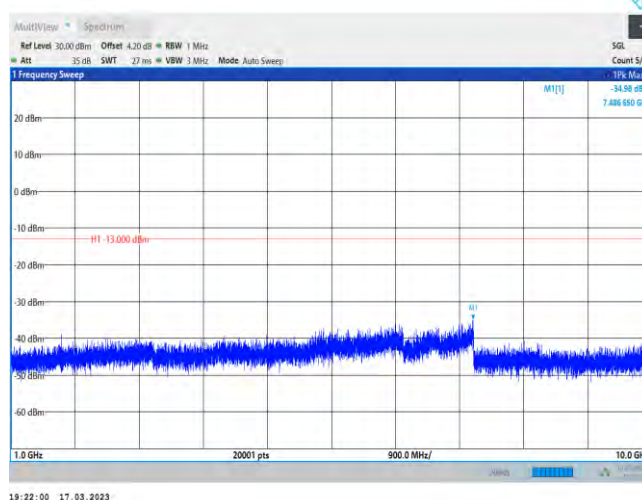
Rev.: 01

Page: 61 of 67

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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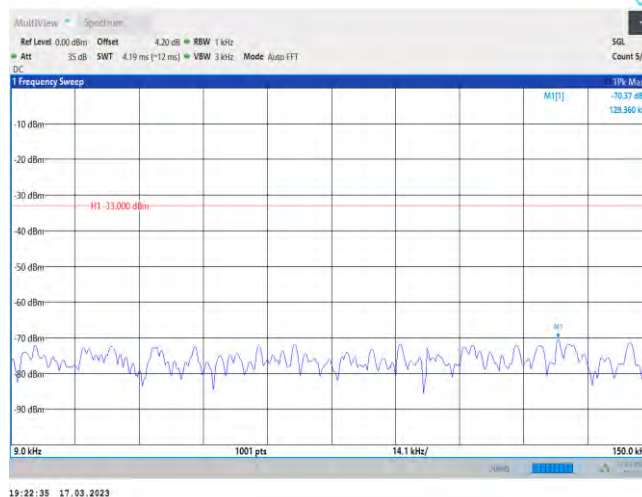
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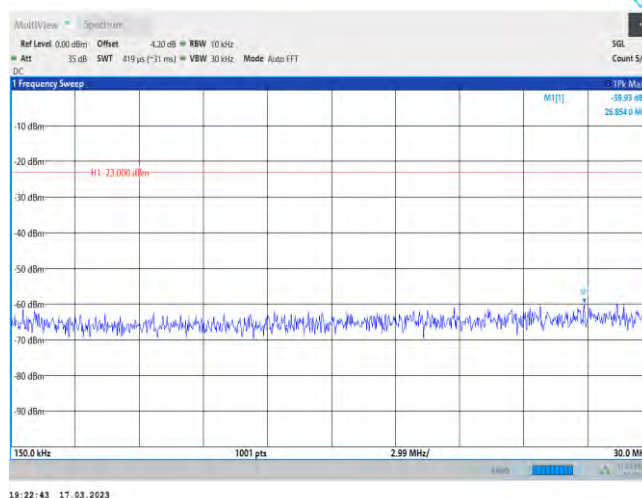
Rev.: 01

Page: 62 of 67

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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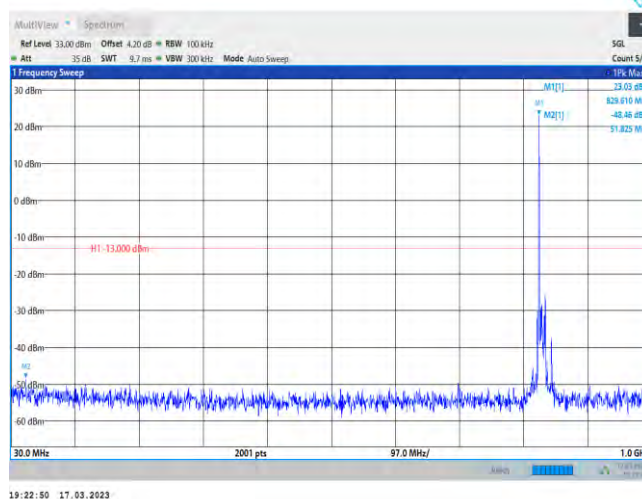
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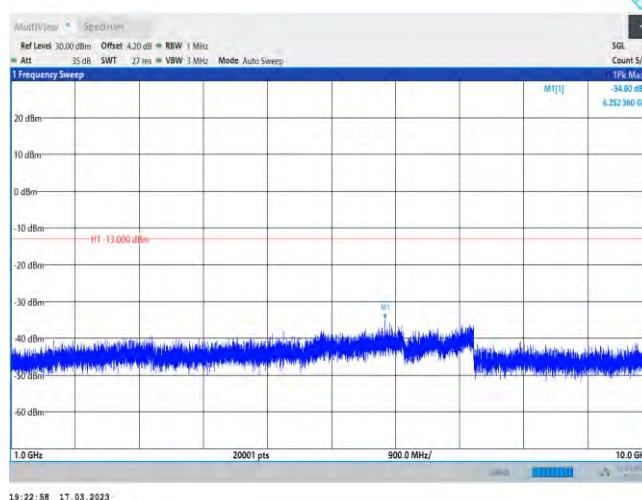
Rev.: 01

Page: 63 of 67

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: 64 of 67

Field Strength of Spurious Radiation

Test Band = LTE Band5B_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	45.73	-48.22	25.37	-72.38	-13.00	59.38	288	164	Horizontal
2	2473.7143	46.80	-47.32	27.68	-68.09	-13.00	55.09	169	98	Horizontal
3	3298.3600	42.46	-46.68	29.56	-69.92	-13.00	56.92	253	203	Horizontal
4	4122.9500	41.49	-45.91	30.99	-68.70	-13.00	55.70	164	5	Horizontal
5	4947.5400	42.16	-45.69	32.73	-66.06	-13.00	53.06	221	190	Horizontal
6	5772.1000	40.15	-44.64	33.65	-66.10	-13.00	53.10	175	111	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.1800	44.97	-48.22	25.37	-73.14	-13.00	60.14	244	146	Vertical
2	2473.7143	49.50	-47.32	27.68	-65.39	-13.00	52.39	176	146	Vertical
3	3298.3600	43.16	-46.68	29.56	-69.22	-13.00	56.22	296	159	Vertical
4	4122.9500	41.35	-45.91	30.99	-68.84	-13.00	55.84	135	360	Vertical
5	4947.5400	41.85	-45.69	32.73	-66.37	-13.00	53.37	248	252	Vertical
6	5772.1000	40.27	-44.64	33.65	-65.98	-13.00	52.98	162	302	Vertical



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Rev.: 01

Page: 65 of 67

Test Band = LTE Band5B_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.3600	43.95	-48.21	25.37	-74.15	-13.00	61.15	247	0	Horizontal
2	2481.5700	43.63	-47.30	27.71	-71.22	-13.00	58.22	187	356	Horizontal
3	3308.7600	42.46	-46.67	29.54	-69.92	-13.00	56.92	155	135	Horizontal
4	4135.9500	41.44	-45.92	31.00	-68.74	-13.00	55.74	167	0	Horizontal
5	4963.1400	41.00	-45.73	32.78	-67.21	-13.00	54.21	218	162	Horizontal
6	5790.3300	40.17	-44.65	33.72	-66.03	-13.00	53.03	199	227	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.3600	44.71	-48.21	25.37	-73.39	-13.00	60.39	274	210	Vertical
2	2481.5700	47.48	-47.30	27.71	-67.37	-13.00	54.37	184	66	Vertical
3	3308.7600	42.91	-46.67	29.54	-69.47	-13.00	56.47	156	277	Vertical
4	4135.9500	41.61	-45.92	31.00	-68.57	-13.00	55.57	163	359	Vertical
5	4963.1400	41.09	-45.73	32.78	-67.12	-13.00	54.12	285	184	Vertical
6	5790.3300	39.92	-44.65	33.72	-66.28	-13.00	53.28	181	330	Vertical



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Rev.: 01

Page: 66 of 67

Test Band = LTE Band5B_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1749.3800	43.92	-48.06	25.41	-73.99	-13.00	60.99	298	9	Horizontal
2	2624.0700	42.99	-46.96	28.15	-71.08	-13.00	58.08	246	294	Horizontal
3	3498.7600	42.45	-46.54	29.52	-69.83	-13.00	56.83	135	1	Horizontal
4	4373.4500	41.00	-45.86	31.46	-68.66	-13.00	55.66	281	320	Horizontal
5	5248.1400	40.87	-45.14	32.94	-66.58	-13.00	53.58	145	307	Horizontal
6	6122.8300	40.10	-44.74	34.17	-65.72	-13.00	52.72	156	201	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1749.3800	43.54	-48.06	25.41	-74.37	-13.00	61.37	244	360	Vertical
2	2624.0700	42.93	-46.96	28.15	-71.14	-13.00	58.14	141	342	Vertical
3	3498.7600	42.80	-46.54	29.52	-69.48	-13.00	56.48	185	317	Vertical
4	4373.4500	41.25	-45.86	31.46	-68.41	-13.00	55.41	220	38	Vertical
5	5248.1400	40.79	-45.14	32.94	-66.66	-13.00	53.66	165	351	Vertical
6	6122.8300	39.53	-44.74	34.17	-66.29	-13.00	53.29	238	290	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Rev.: 01

Page: 67 of 67

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#0-50RB#0	NV	50	0.53	0.000637	±2.5	PASS

---End of Attachment---



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