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Rev.: 01

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Appendix B.6

LTE CA_5B



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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	21.51	18.94	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	20.27	17.7	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	21.56	18.99	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	20.26	17.69	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	21.57	19	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	20.09	17.52	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	20.77	18.2	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	19.29	16.72	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	20.82	18.25	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	19.26	16.69	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	20.79	18.22	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	19.09	16.52	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	19.74	17.17	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	19.26	16.69	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	19.82	17.25	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	19.27	16.7	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	19.83	17.26	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	19.11	16.54	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	1RB#0-0RB#0	16.84	14.27	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	17.42	14.85	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	1RB#0-0RB#0	16.87	14.3	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	17.41	14.84	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	1RB#0-0RB#0	16.85	14.28	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	17.02	14.45	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	21.55	18.98	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	20.15	17.58	38.45	PASS



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5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	21.63	19.06	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	20.07	17.5	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	21.72	19.15	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	19.94	17.37	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	20.82	18.25	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	19.13	16.56	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	20.88	18.31	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	19.08	16.51	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	20.98	18.41	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	18.94	16.37	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	19.84	17.27	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	19.12	16.55	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	19.85	17.28	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	19.08	16.51	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	19.98	17.41	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	18.94	16.37	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	1RB#0-0RB#0	16.82	14.25	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	17.26	14.69	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	1RB#0-0RB#0	16.94	14.37	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	17.21	14.64	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	1RB#0-0RB#0	16.81	14.24	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	16.88	14.31	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	22.06	19.49	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	1RB#0-0RB#0	21.92	19.35	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	22.12	19.55	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	1RB#0-0RB#0	22.03	19.46	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	22.19	19.62	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	1RB#0-0RB#0	22.16	19.59	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	22.04	19.47	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	1RB#0-0RB#0	22.14	19.57	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	22.16	19.59	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	1RB#0-0RB#0	22.25	19.68	38.45	PASS



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5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	22.18	19.61	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	1RB#0-0RB#0	22.35	19.78	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	22.04	19.47	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	1RB#0-0RB#0	22.16	19.59	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	22.14	19.57	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	1RB#0-0RB#0	22.31	19.74	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	22.18	19.61	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	1RB#0-0RB#0	22.37	19.8	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	22.07	19.5	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	1RB#0-0RB#0	22.2	19.63	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	22.14	19.57	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	1RB#0-0RB#0	22.3	19.73	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	22.21	19.64	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	1RB#0-0RB#0	22.41	19.84	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	21.56	18.99	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	20.02	17.45	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	21.58	19.01	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	20.04	17.47	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	21.66	19.09	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	19.93	17.36	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	20.87	18.3	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	19	16.43	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	20.81	18.24	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	19	16.43	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	20.96	18.39	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	18.92	16.35	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	19.91	17.34	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	19.02	16.45	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	19.84	17.27	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	18.99	16.42	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	19.92	17.35	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	18.91	16.34	38.45	PASS



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5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	1RB#0-0RB#0	16.92	14.35	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	17.16	14.59	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	1RB#0-0RB#0	16.85	14.28	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	17.15	14.58	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	1RB#0-0RB#0	16.81	14.24	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	16.85	14.28	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	1RB#0-0RB#0	21.66	19.09	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	22.01	19.44	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	1RB#0-0RB#0	21.76	19.19	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	22.05	19.48	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	1RB#0-0RB#0	21.82	19.25	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	22.17	19.6	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	1RB#0-0RB#0	21.92	19.35	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	22.04	19.47	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	1RB#0-0RB#0	22	19.43	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	22.07	19.5	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	1RB#0-0RB#0	22.08	19.51	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	22.19	19.62	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	1RB#0-0RB#0	21.97	19.4	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	22.01	19.44	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	1RB#0-0RB#0	22.06	19.49	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	22.09	19.52	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	1RB#0-0RB#0	22.12	19.55	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	22.17	19.6	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	1RB#0-0RB#0	21.9	19.33	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	22.05	19.48	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	1RB#0-0RB#0	22.08	19.51	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	22.07	19.5	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	1RB#0-0RB#0	22.07	19.5	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	22.19	19.62	38.45	PASS



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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	5.44	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	5.76	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	5.64	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	5.98	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	6.52	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	6.74	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	6.26	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	6.72	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	7.06	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	6.54	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	6.62	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	6.98	13	PASS



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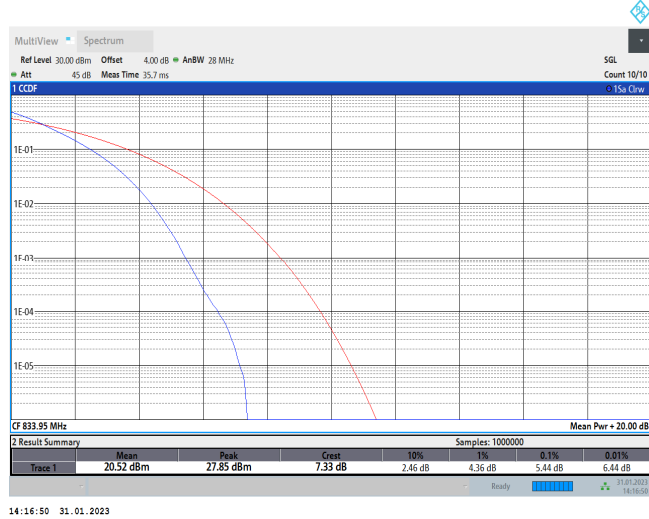
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Wireless Laboratories

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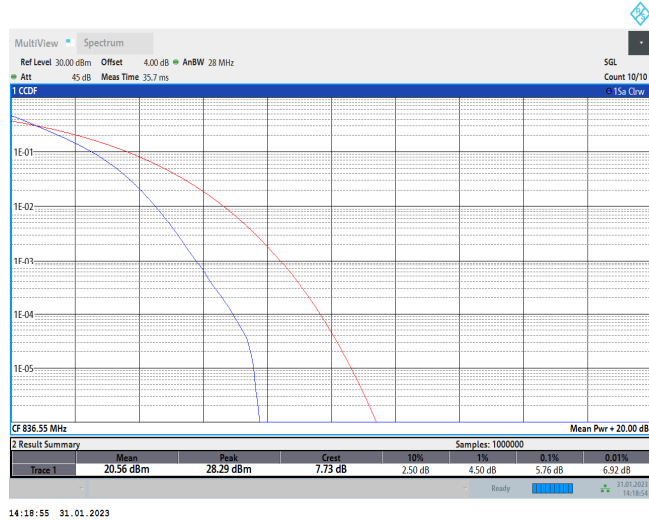
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Test Graphs

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



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

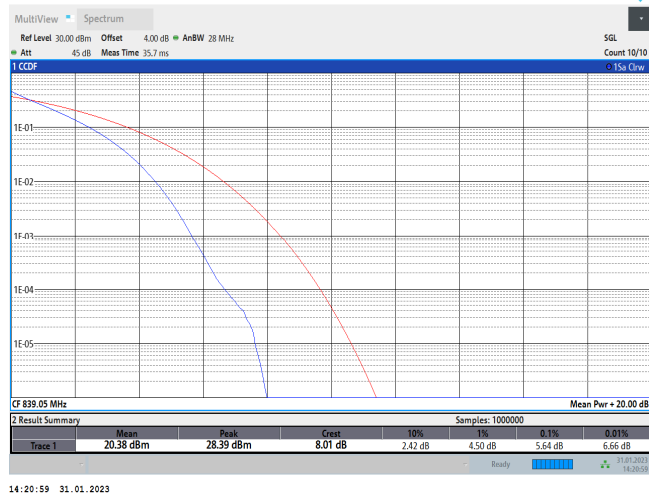


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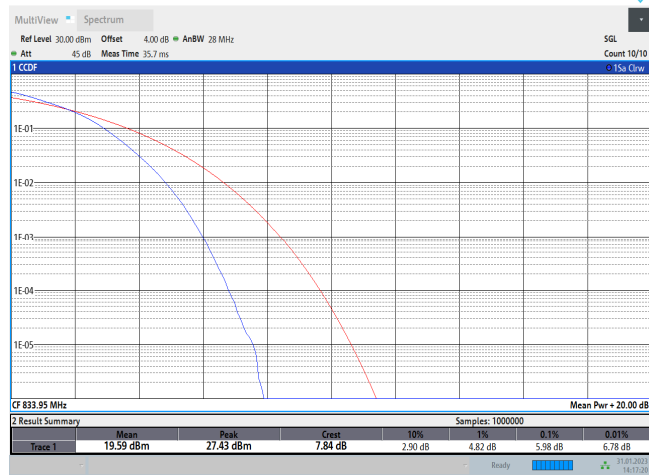
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



14:20:59 31. 01. 2023

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



14:17:21 31. 01. 2023

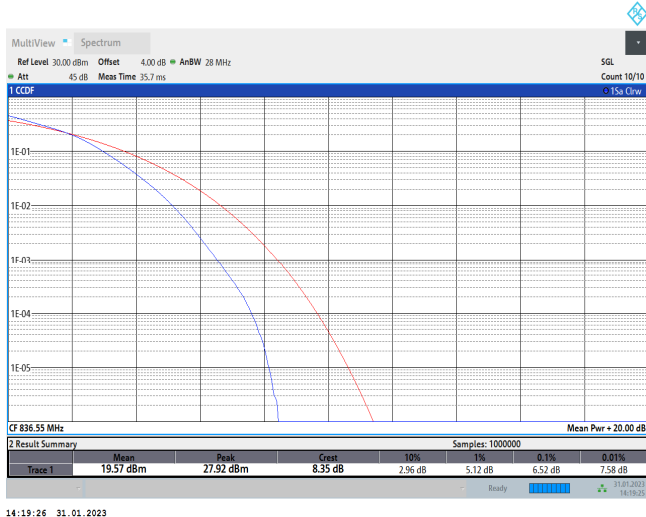


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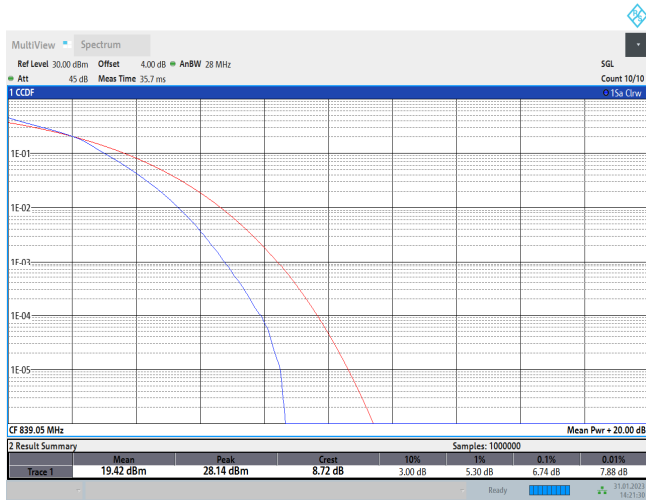
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5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



14:19:26 31.01.2023

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



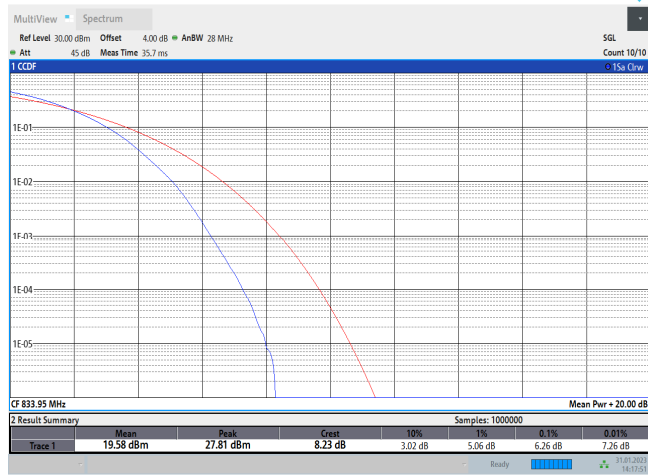
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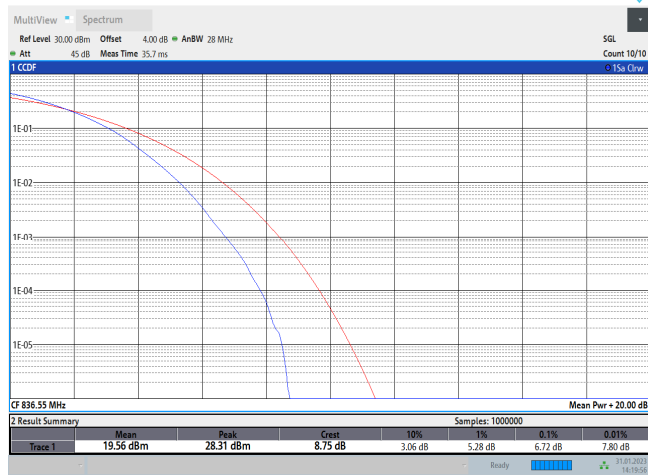
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5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



14:17:52 31. 01. 2023

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



14:19:57 31. 01. 2023



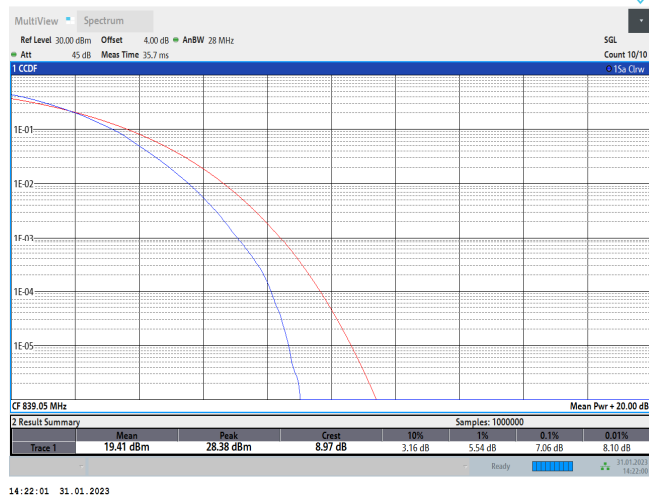
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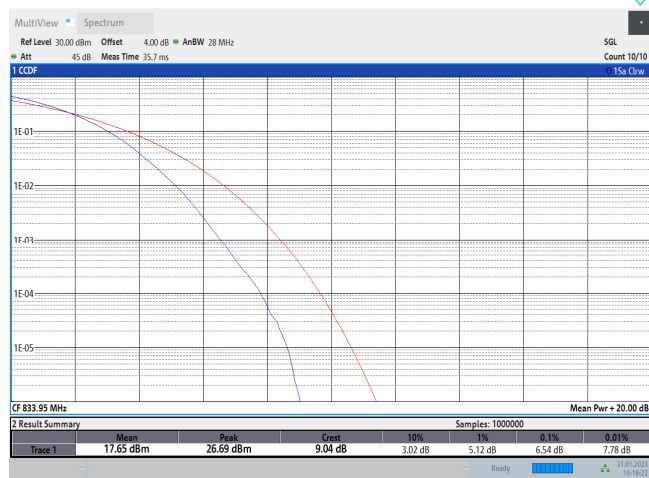
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5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



14:22:01 31. 01. 2023

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



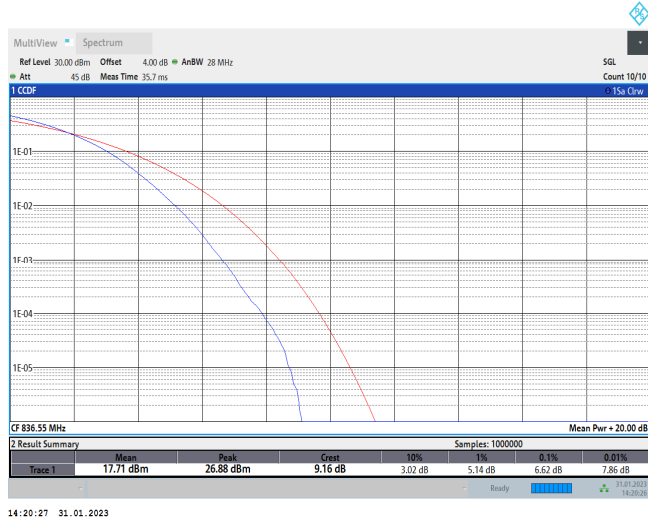
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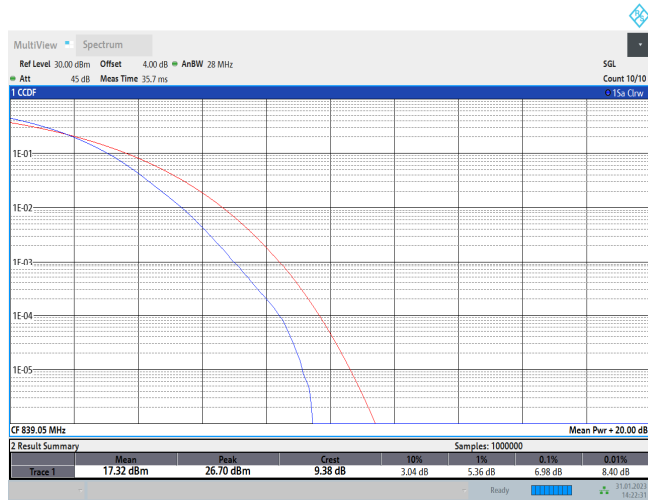
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5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



14:20:27 31. 01. 2023

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



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	6.34	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	6.84	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	6.90	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	7.34	PASS



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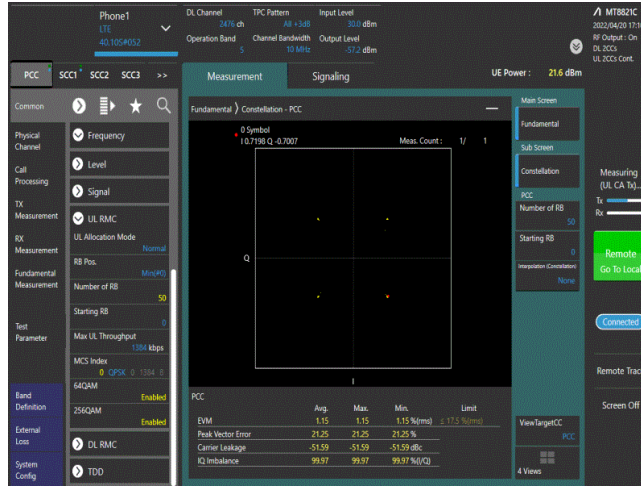
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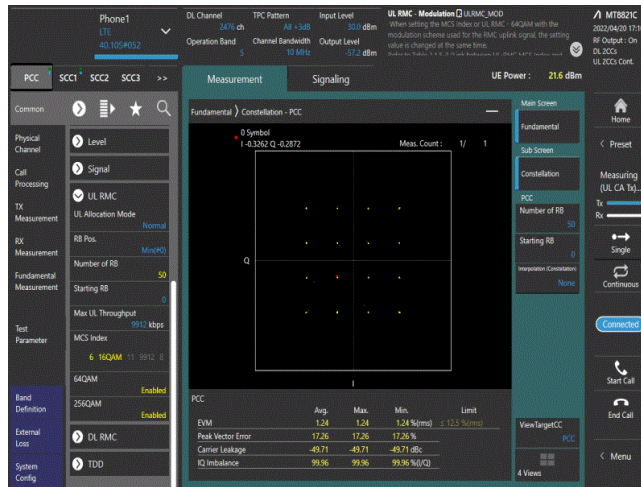
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Test Graphs

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

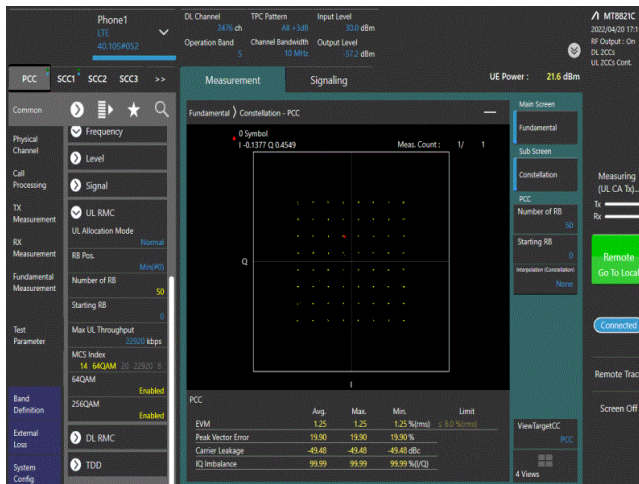


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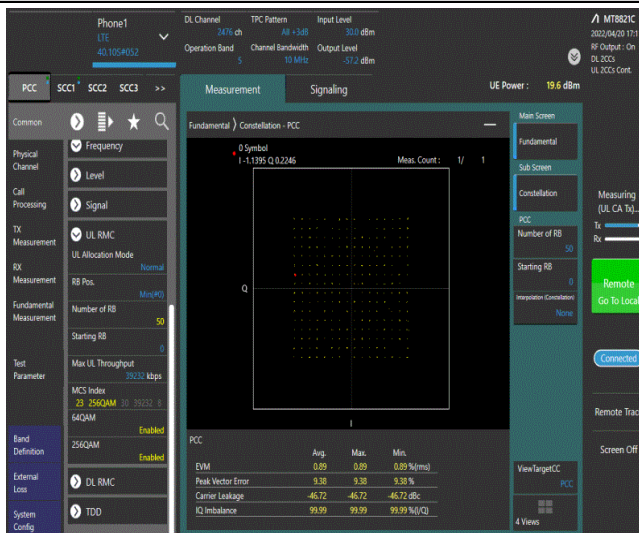
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5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



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	18.872	20.20	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.872	20.20	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	18.813	20.16	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	18.818	20.08	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.839	20.12	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	18.769	20.16	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	18.808	20.12	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.796	20.12	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	18.807	20.16	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	18.804	20.20	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.813	20.16	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.762	20.12	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	13.872	14.79	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.897	14.82	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	13.823	14.76	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	13.837	14.76	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.86	14.76	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	13.791	14.73	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	13.833	14.79	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.881	14.85	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	13.782	14.82	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	13.841	14.91	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	13.908	14.94	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	13.808	14.76	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	7.419	7.95	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	7.49	7.95	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	7.432	7.94	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	7.417	7.95	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	7.479	7.95	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	7.394	7.94	PASS



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5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	7.401	7.98	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	7.479	8.34	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	7.392	7.95	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	7.436	7.90	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	7.513	7.98	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	7.444	7.95	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	13.767	14.73	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.88	14.82	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	13.805	14.64	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	13.78	14.61	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.889	14.67	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	13.809	14.61	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	13.773	14.61	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.872	14.70	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	13.815	14.67	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	13.744	14.61	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	13.849	14.76	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	13.789	14.70	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	7.453	8.02	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	7.478	8.05	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	7.46	8.03	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	7.478	8.03	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	7.503	8.06	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	7.465	8.10	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	7.469	8.10	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	7.499	8.08	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	7.458	8.02	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	7.47	8.06	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	7.511	8.08	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	7.474	8.08	PASS



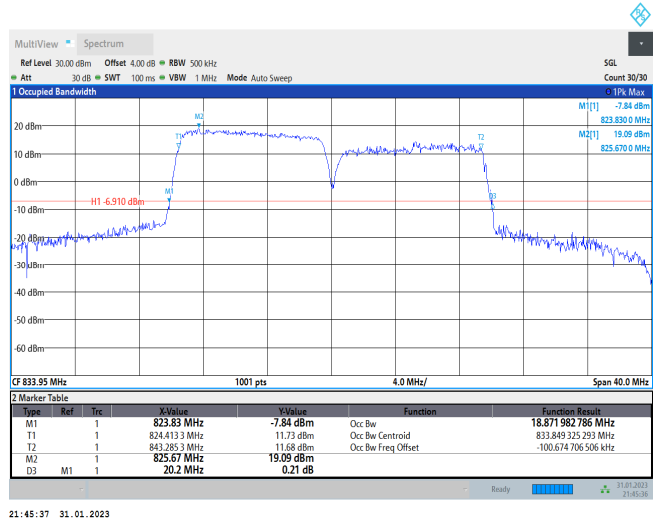
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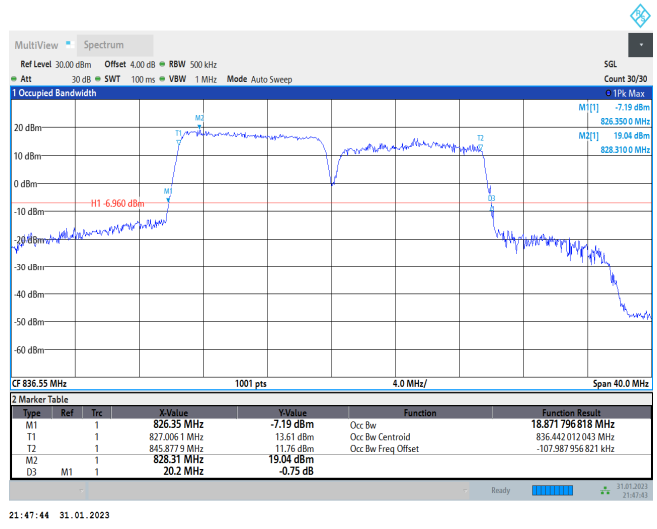
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Test Graphs

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



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

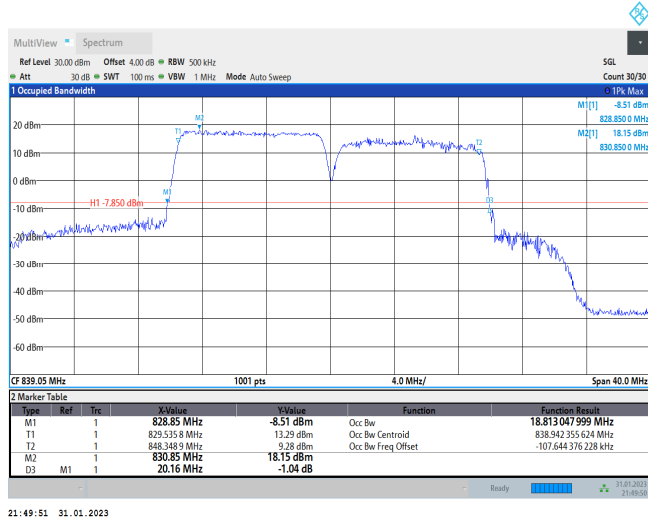


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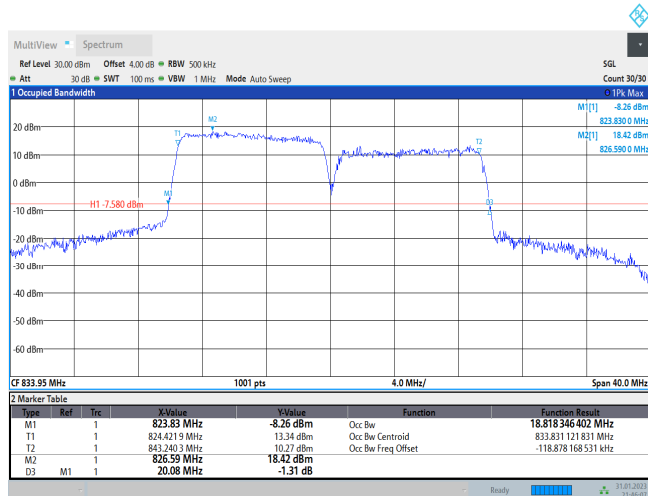
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



21:49:51 31.01.2023

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



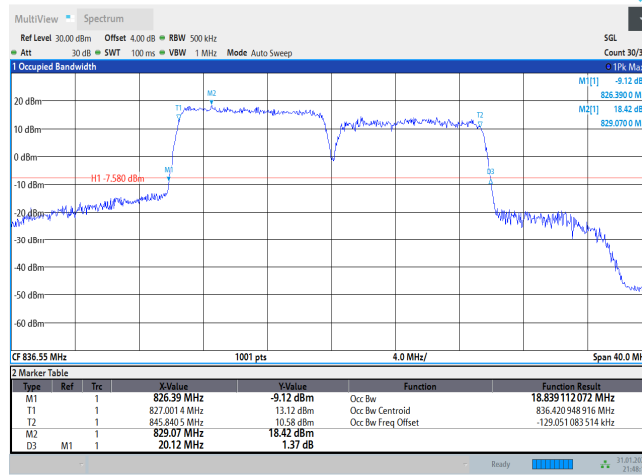
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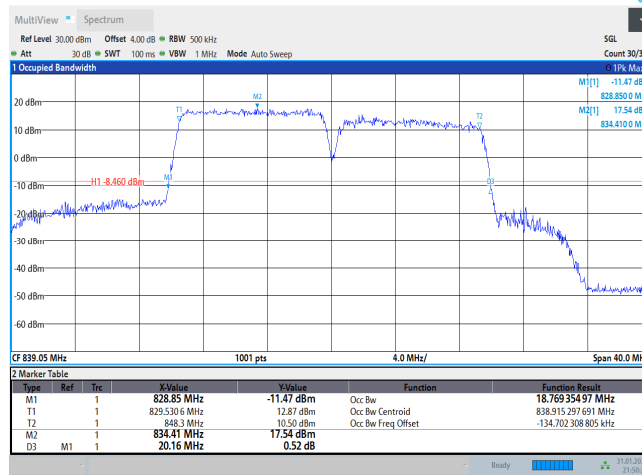
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5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



21:48:15 31.01.2023

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



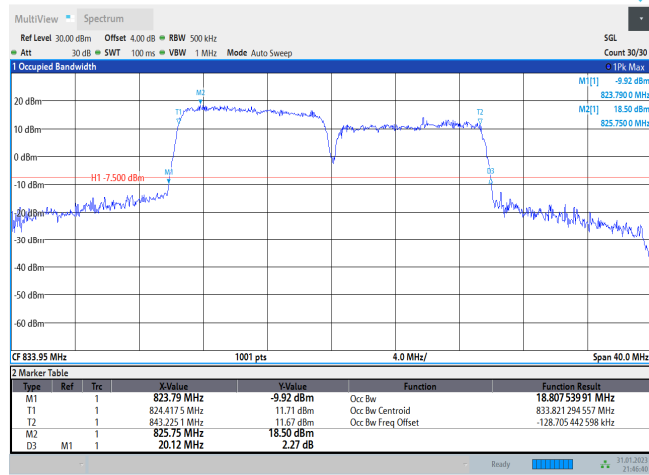
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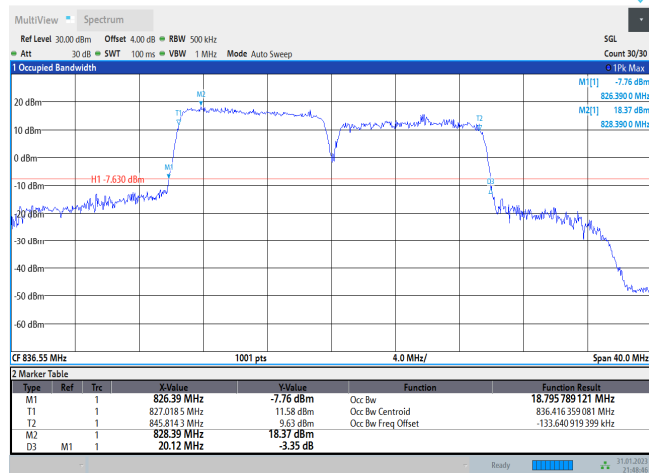
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5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



21:46:40 31. 01. 2023

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



21:48:47 31. 01. 2023

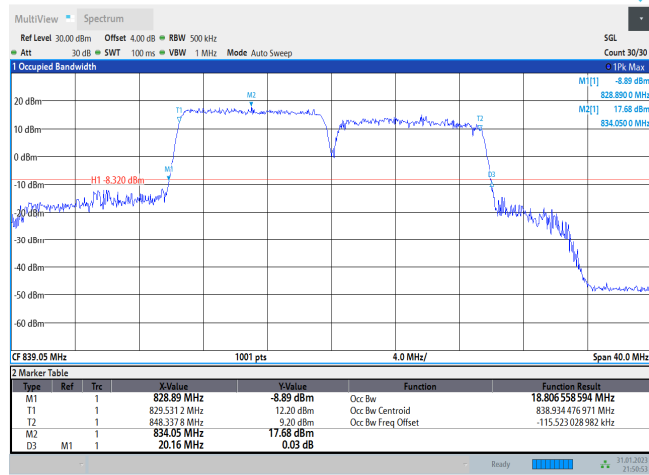


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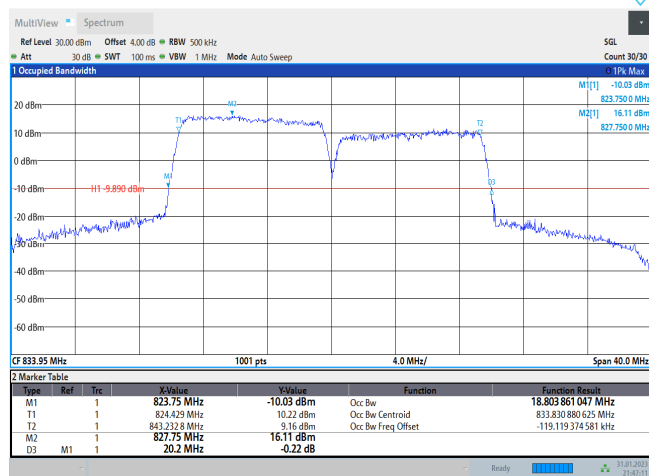
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5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



21:50:54 31.01.2023

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



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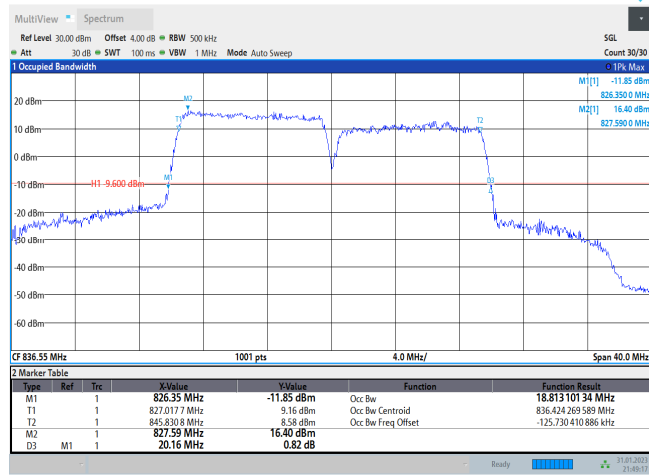
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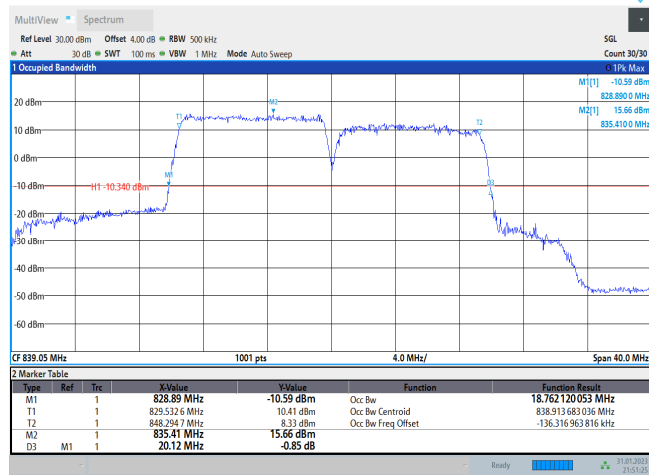
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5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



21:49:18 31.01.2023

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



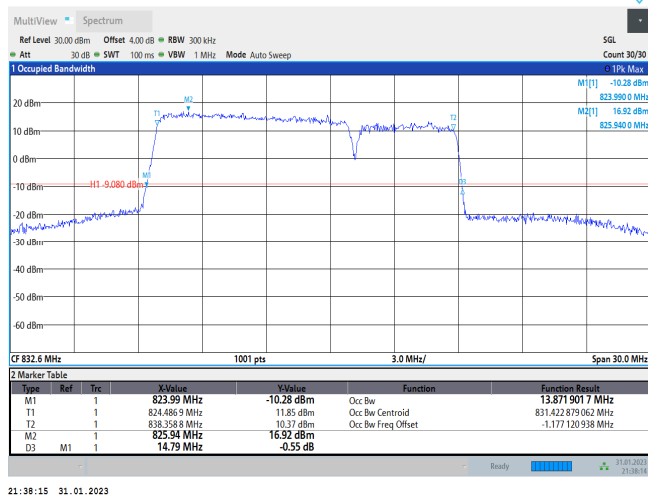
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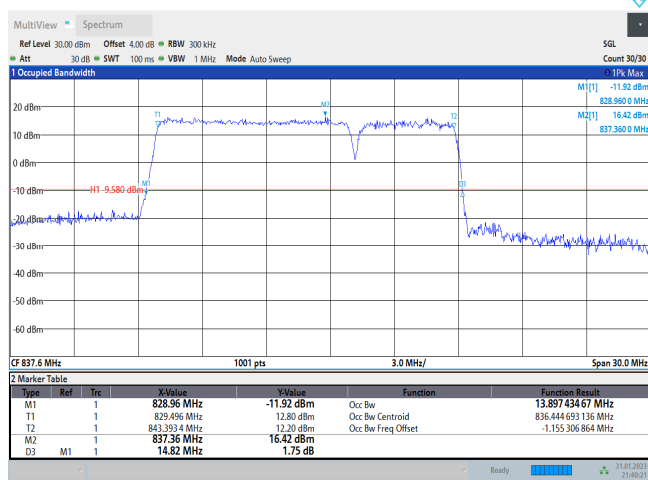
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5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



21:38:15 31.01.2023

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



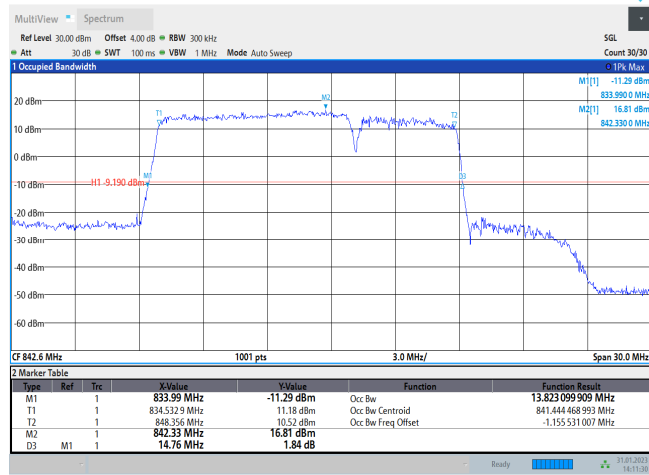
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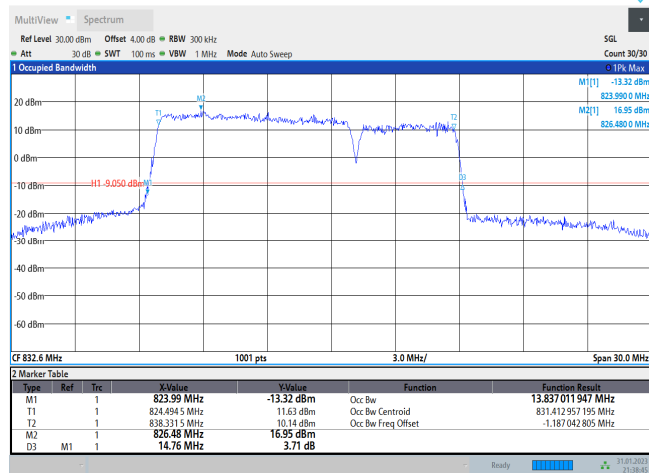
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5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



14:11:31 31.01.2023

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



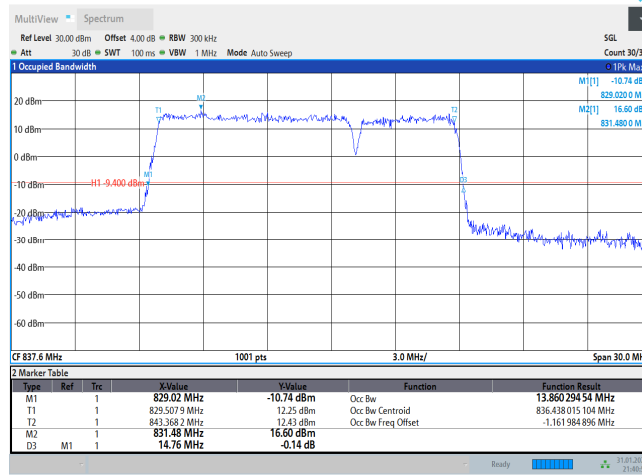
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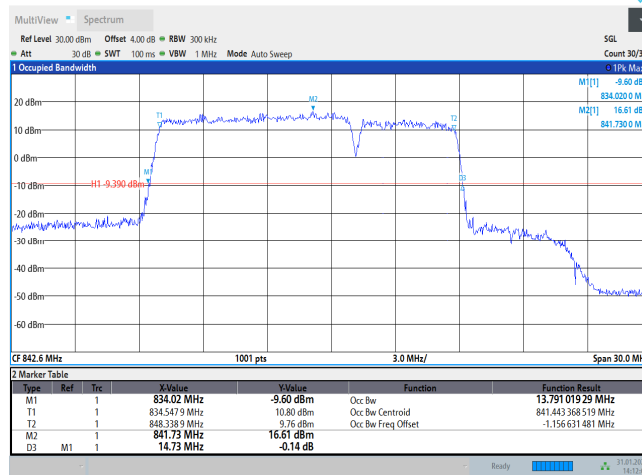
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5-5-10MHz-5MHz-16QAM-16QAM-20500-20572-50RB#0-25RB#0



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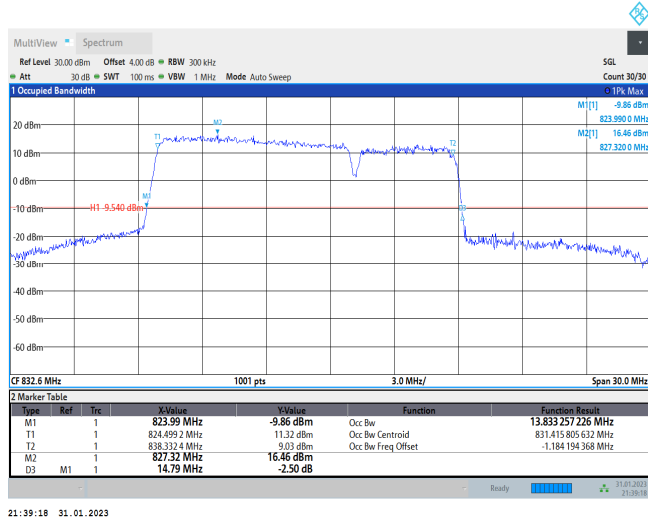
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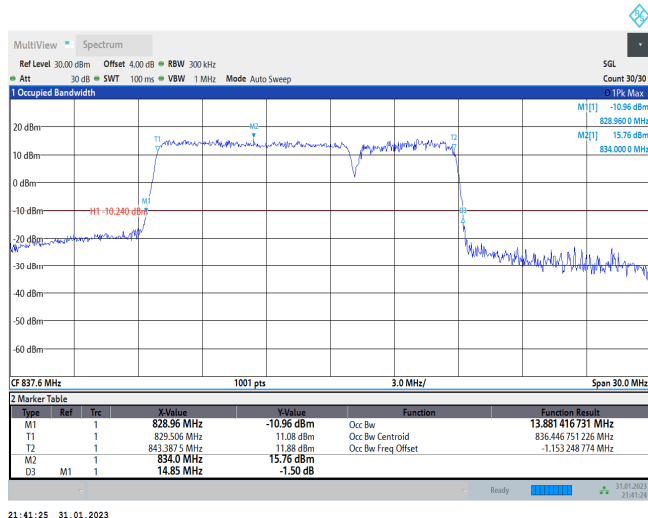
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5-5-10MHz-5MHz-64QAM-64QAM-20500-20572-50RB#0-25RB#0

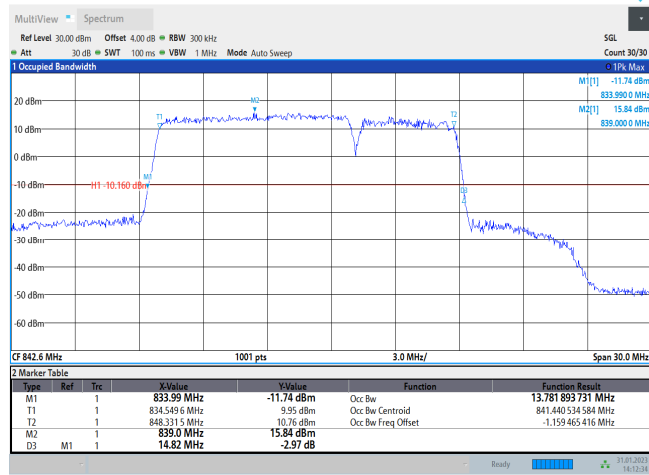


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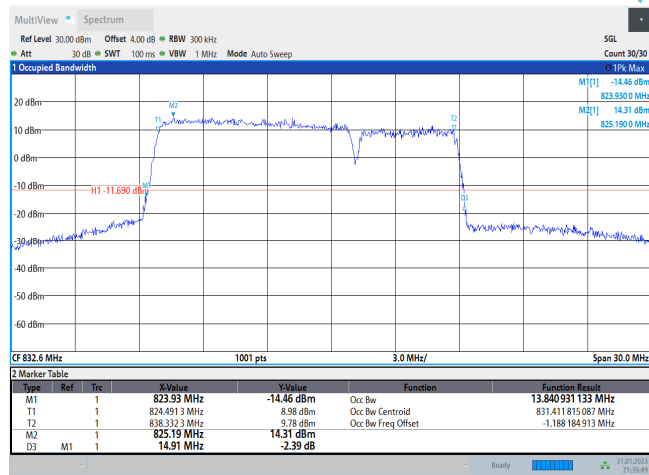
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5-5-10MHz-5MHz-64QAM-64QAM-20550-20622-50RB#0-25RB#0



14:12:34 31.01.2023

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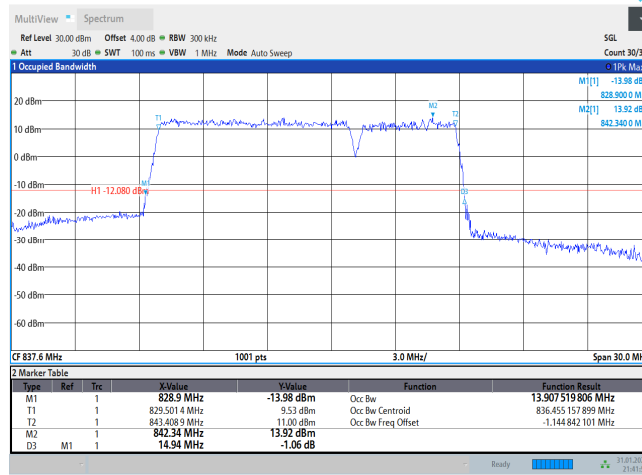
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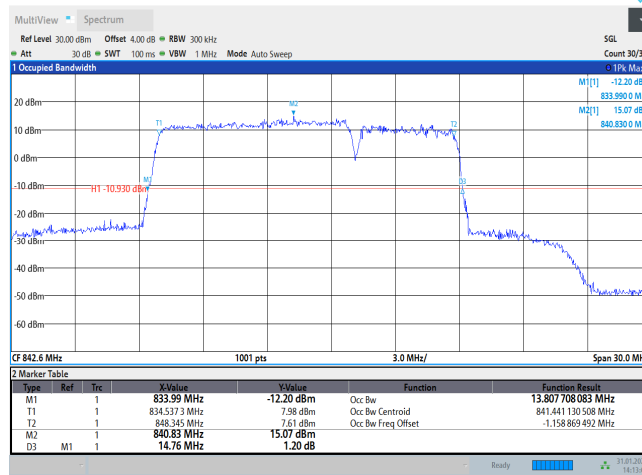
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5-5-10MHz-5MHz-256QAM-256QAM-20500-20572-50RB#0-25RB#0



21:41:56 31.01.2023

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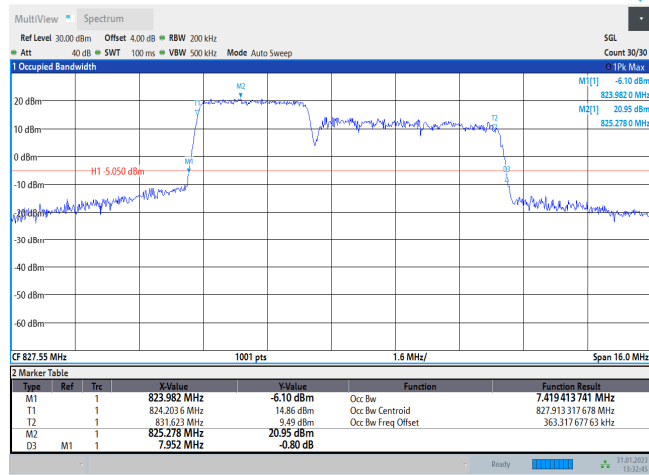
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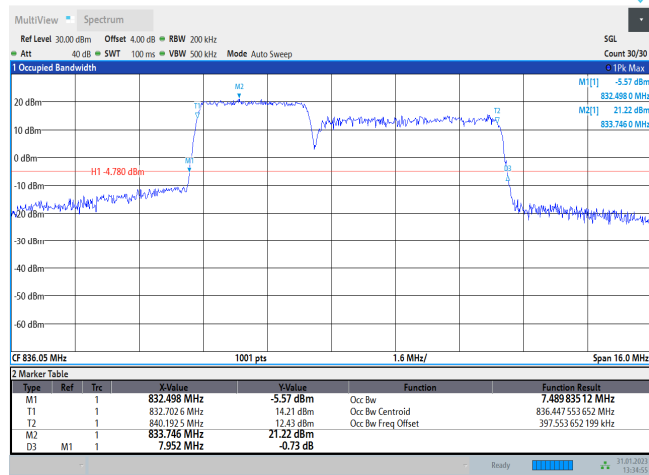
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5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



13:32:45 31.01.2023

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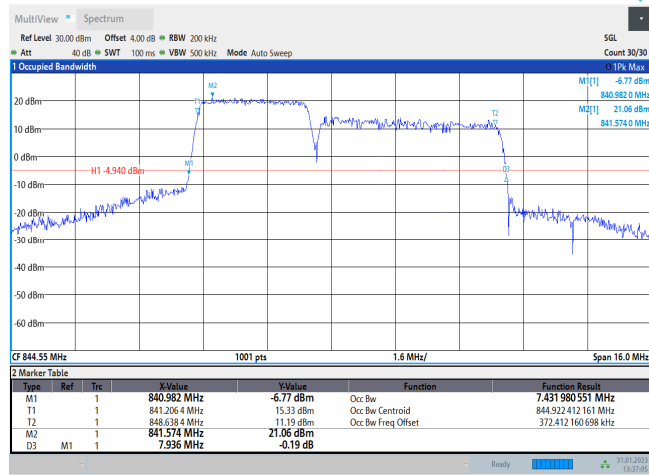
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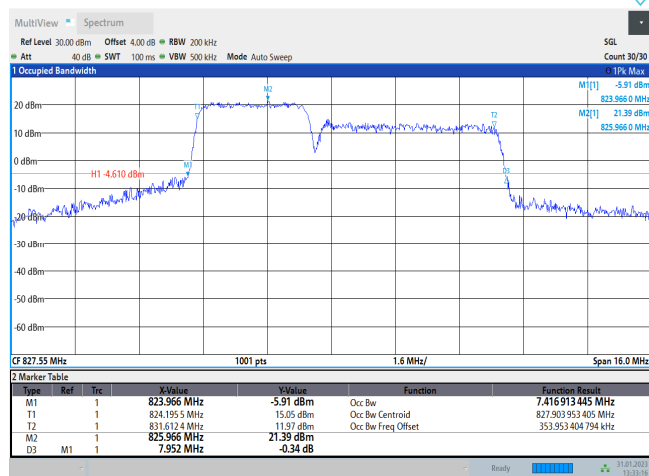
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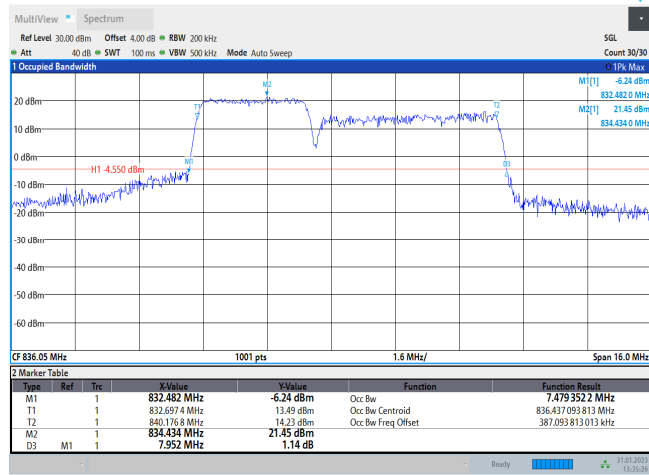
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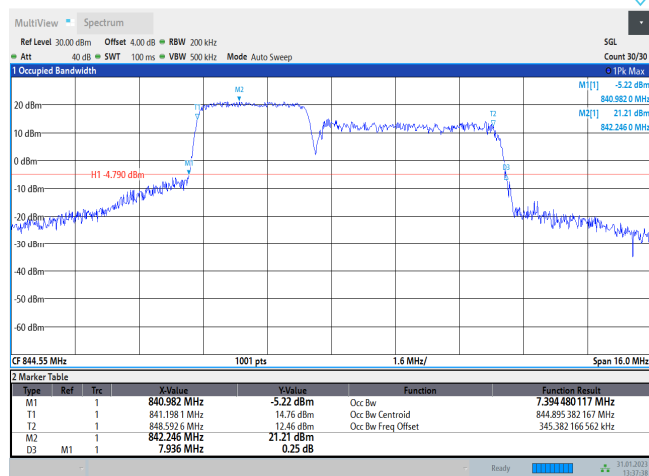
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13:35:27 31. 01. 2023

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13:37:38 31. 01. 2023



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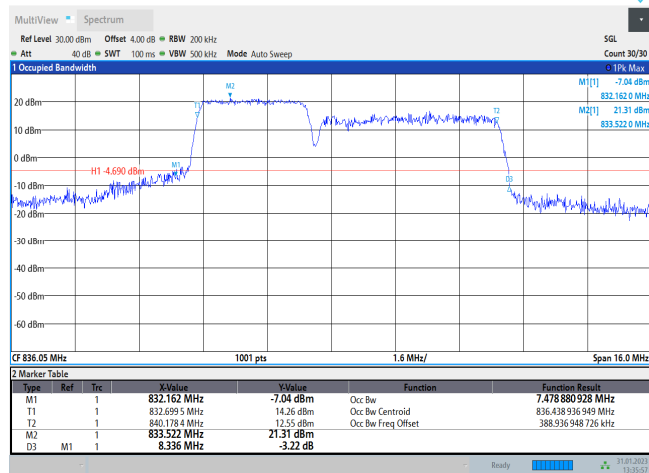
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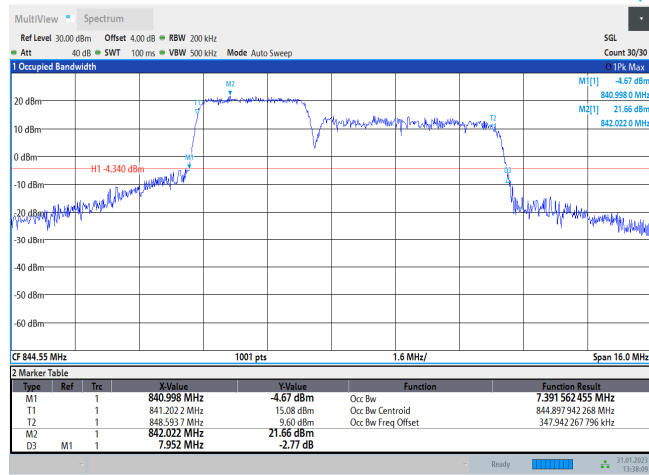
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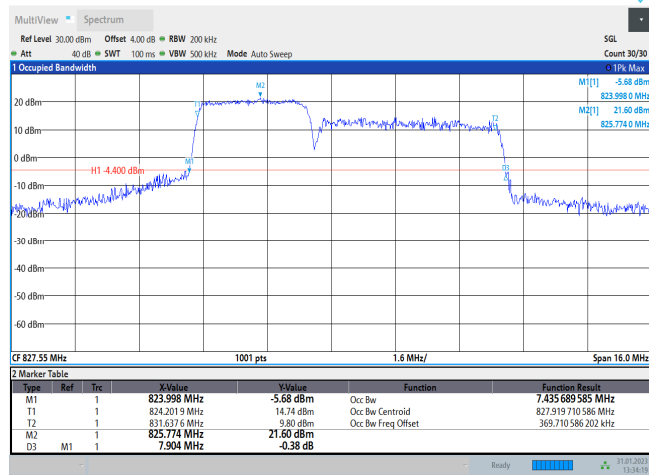
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5-5-3MHz-5MHz-64QAM-64QAM-20586-20625-15RB#0-25RB#0



13:38:09 31.01.2023

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



13:34:19 31.01.2023



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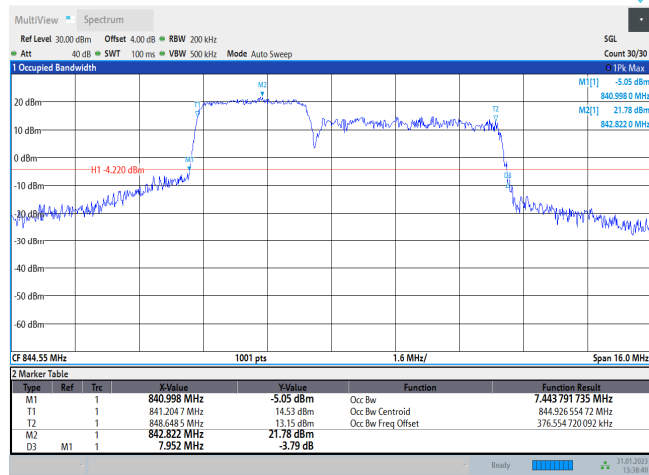
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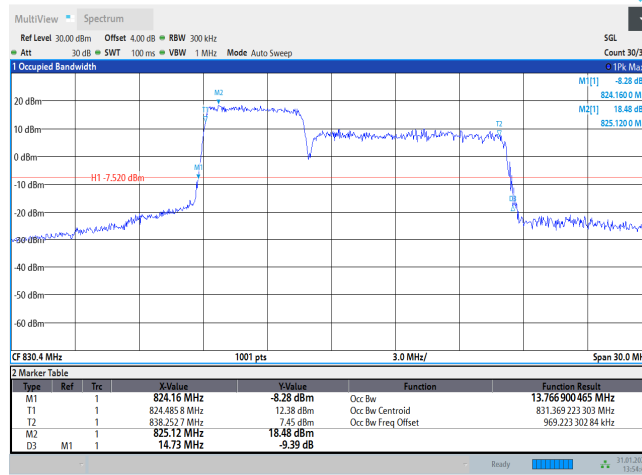


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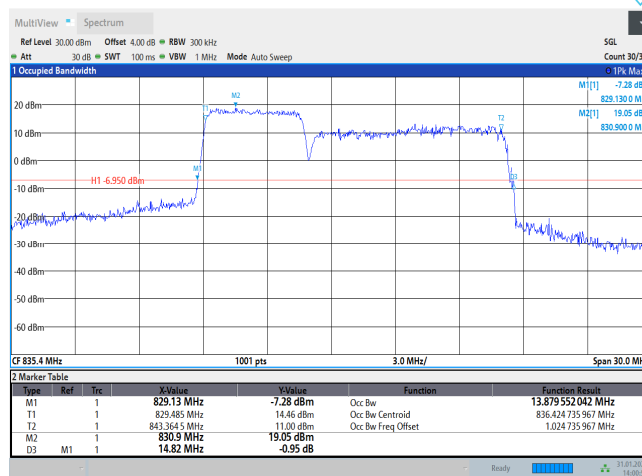
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5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



13:54:47 31.01.2023

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



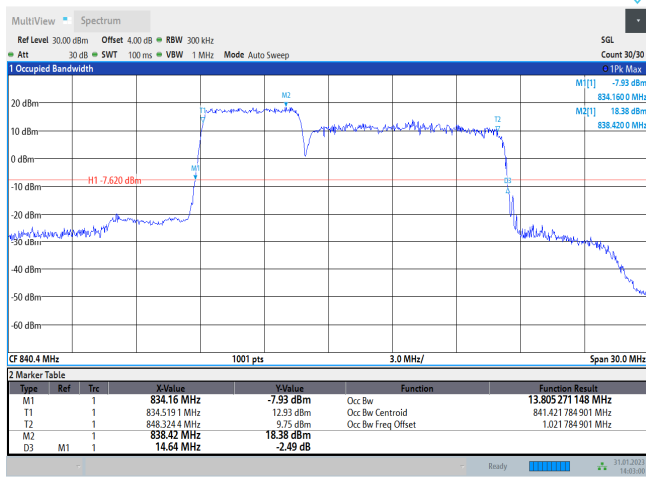
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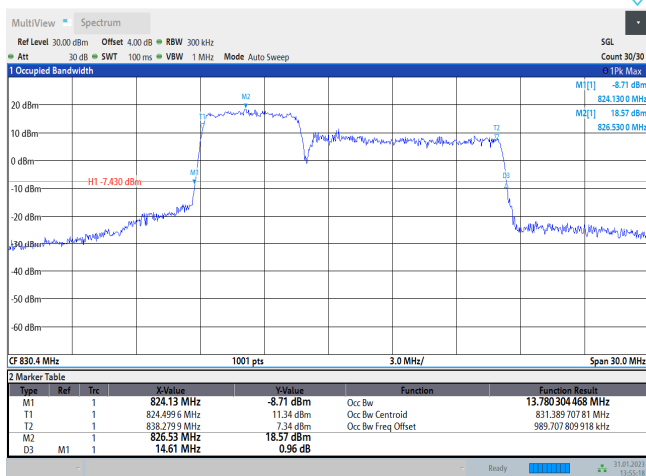
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5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



14:03:01 31.01.2023

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



13:55:18 31.01.2023



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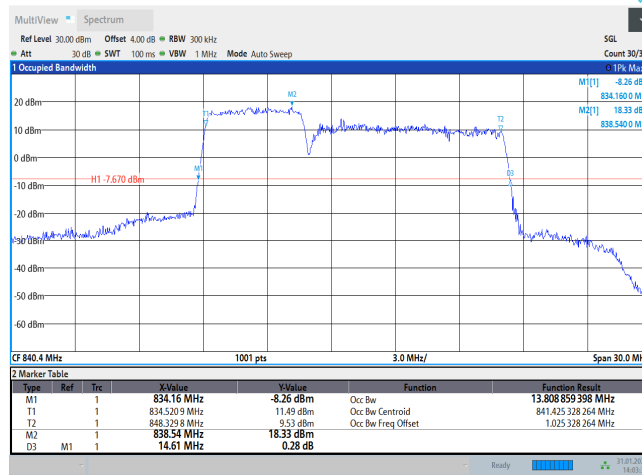
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5-5-5MHz-10MHz-16QAM-16QAM-20478-20550-25RB#0-50RB#0



14:01:25 31.01.2023

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



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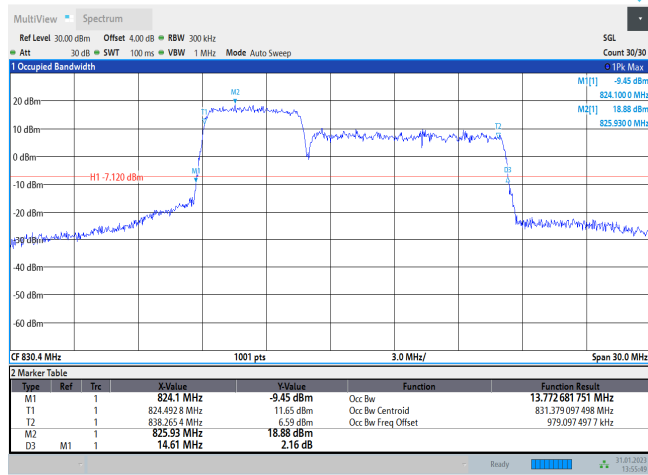


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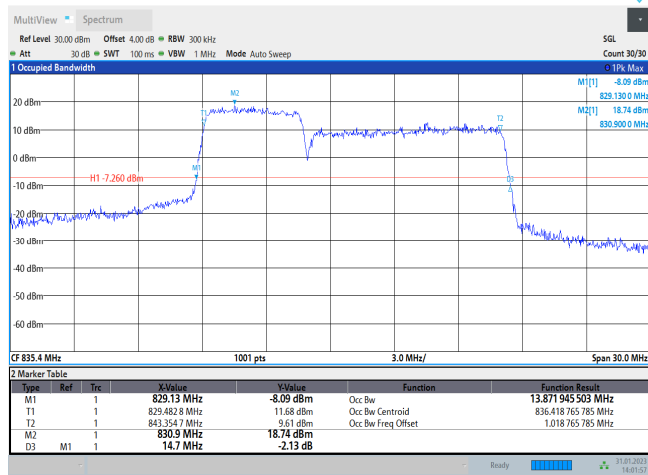
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5-5-5MHz-10MHz-64QAM-64QAM-20428-20500-25RB#0-50RB#0



13:55:50 31.01.2023

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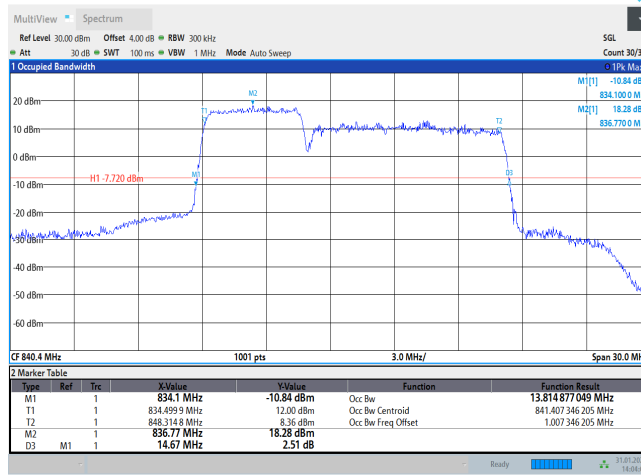
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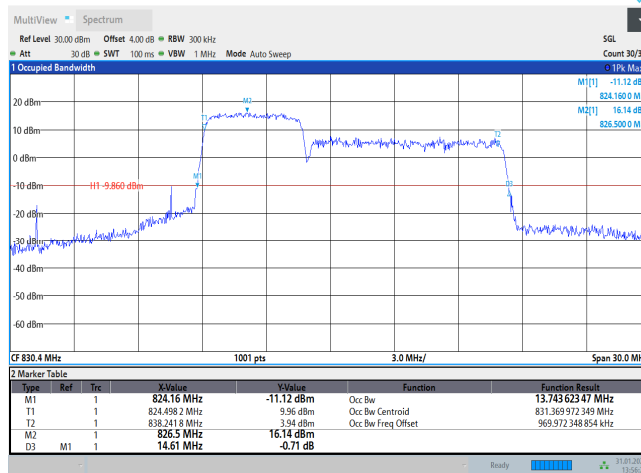
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14:04:04 31.01.2023

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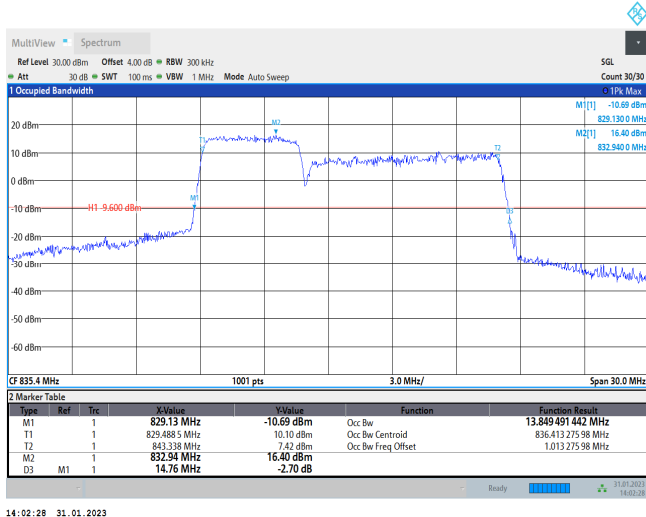
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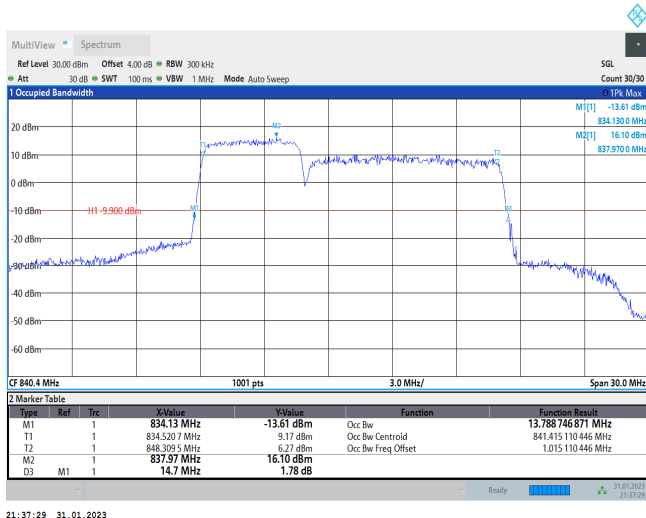
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5-5-5MHz-10MHz-256QAM-256QAM-20478-20550-25RB#0-50RB#0



14:02:28 31.01.2023

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21:37:29 31.01.2023

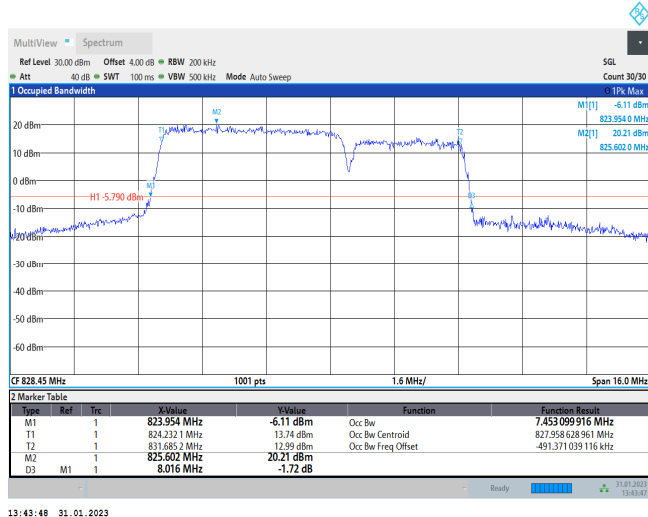


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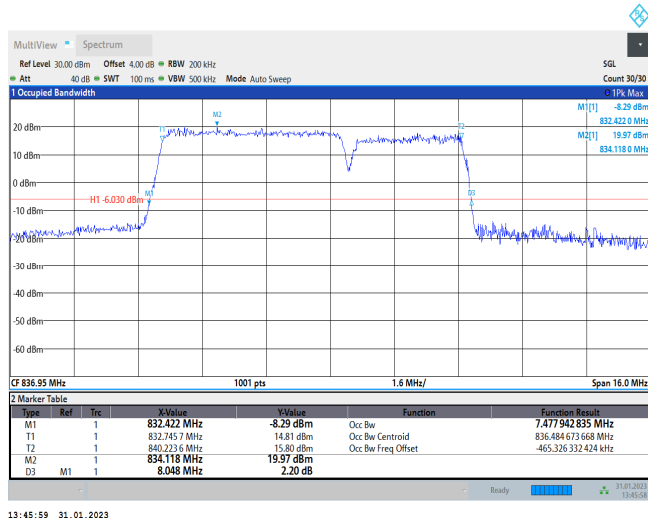
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5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



13:43:48 31.01.2023

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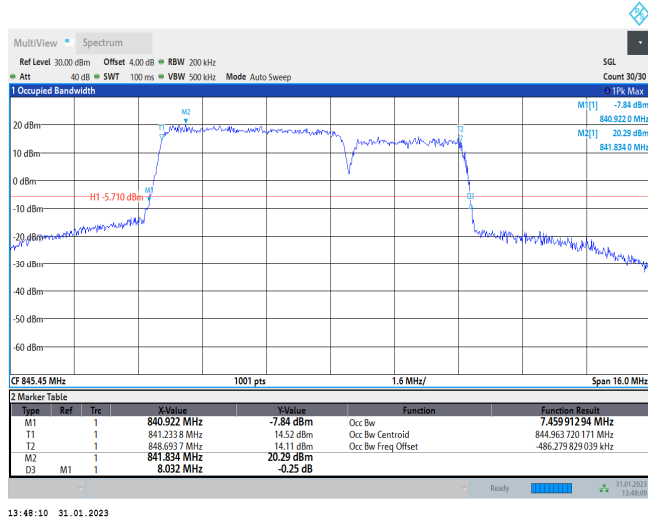
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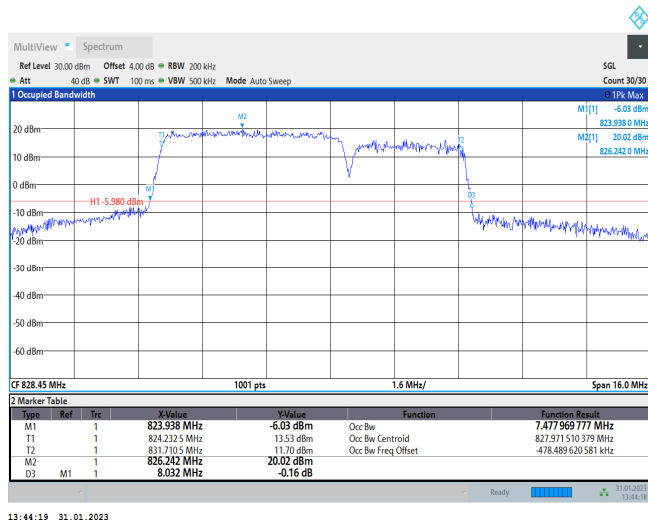
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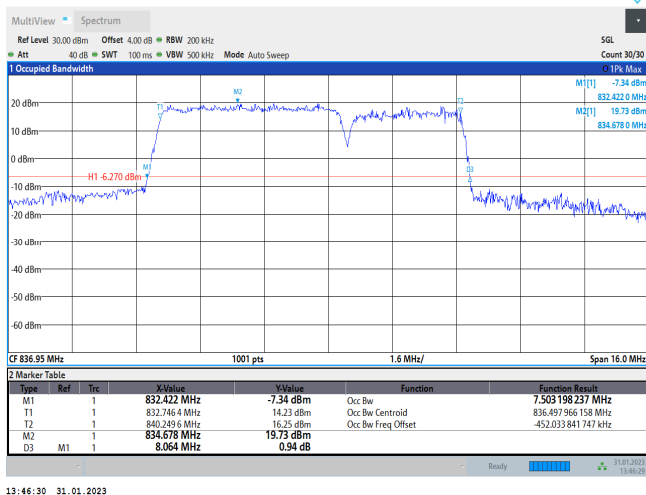
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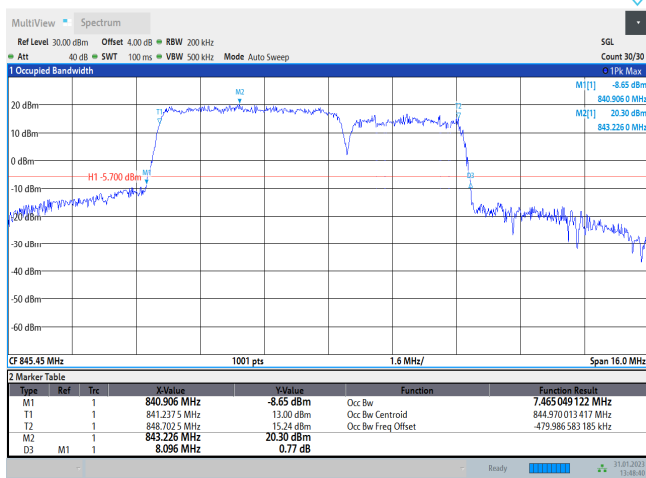
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5-5-5MHz-3MHz-16QAM-16QAM-20510-20549-25RB#0-15RB#0



13:46:30 31.01.2023

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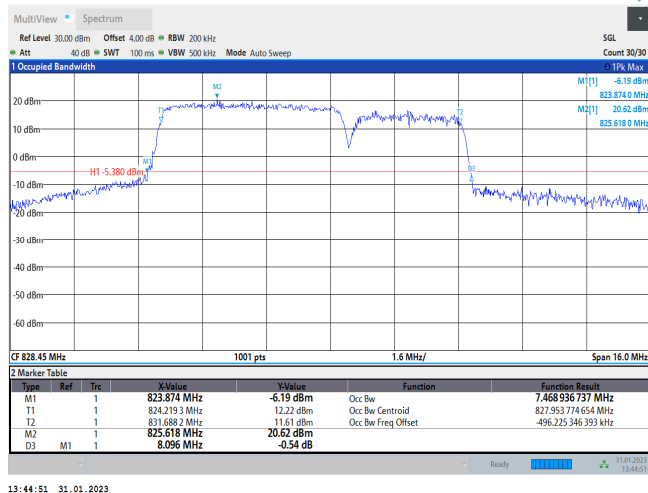
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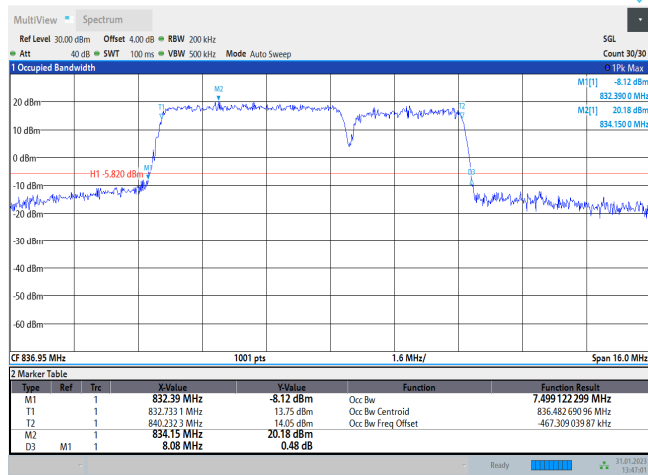
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5-5-5MHz-3MHz-64QAM-64QAM-20425-20464-25RB#0-15RB#0



13:44:51 31.01.2023

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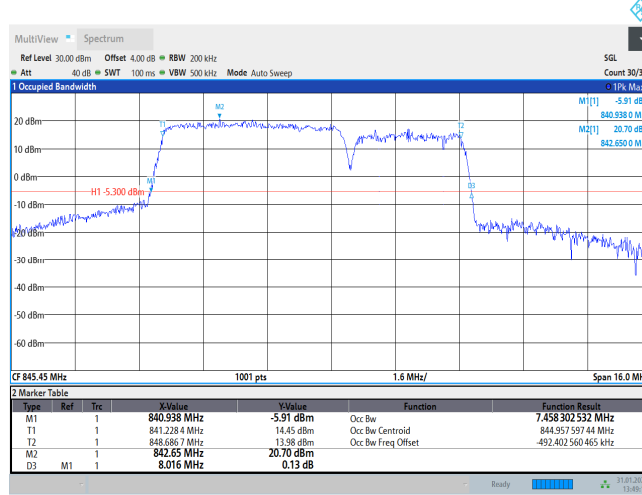
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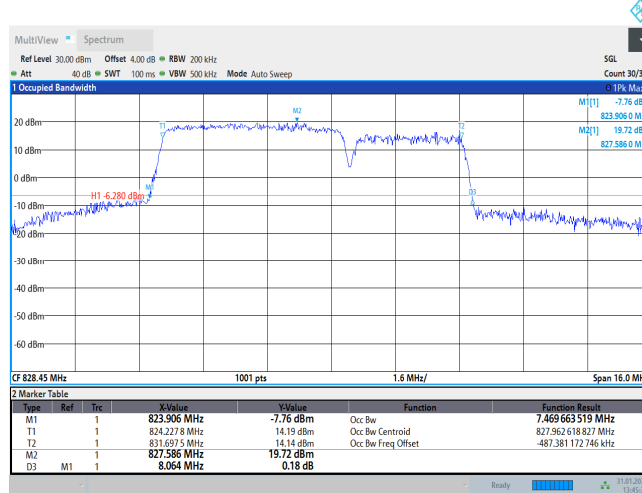
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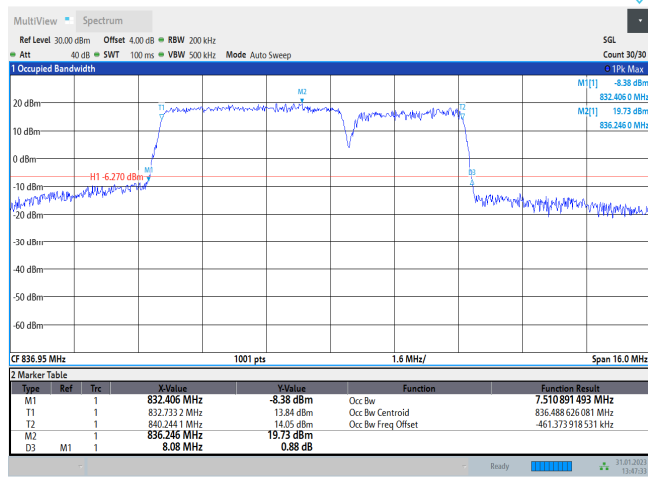
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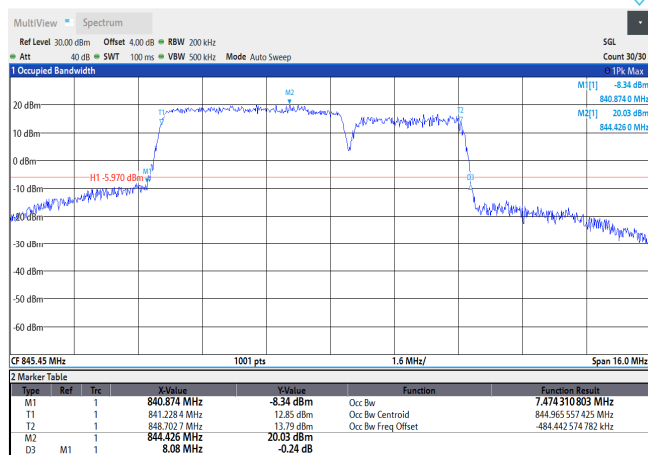
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5-5-5MHz-3MHz-256QAM-256QAM-20510-20549-25RB#0-15RB#0



13:47:33 31.01.2023

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



13:49:44 31.01.2023



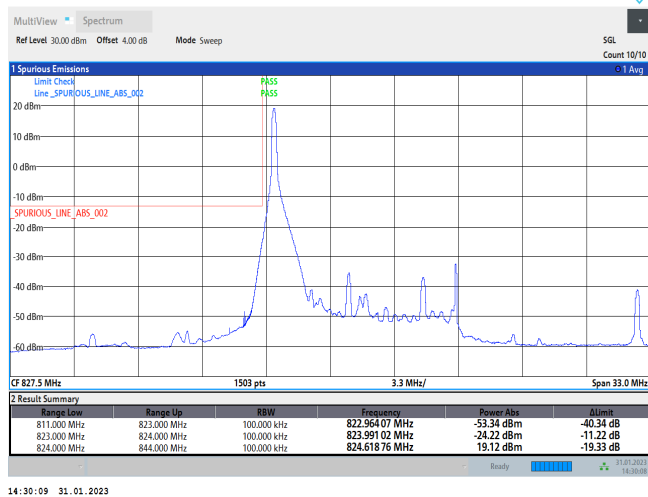
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Band Edge

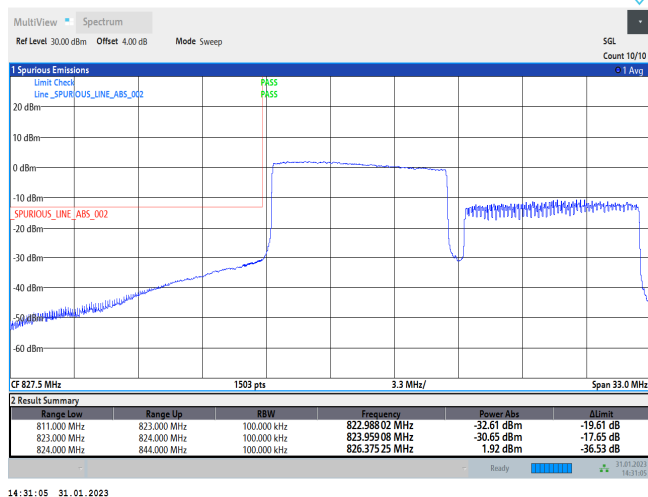
Test Graphs

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



14:30:09 31.01.2023

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



14:31:05 31.01.2023

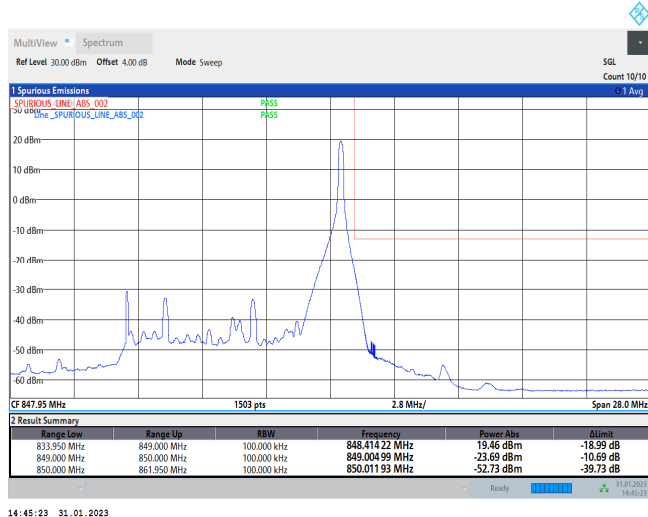


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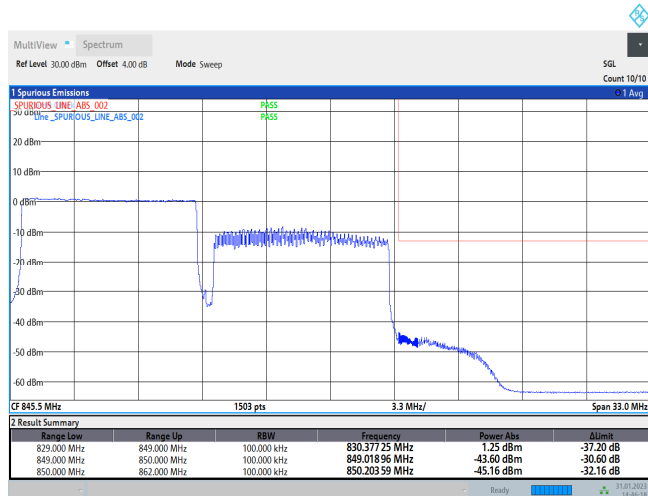
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-0RB#0-1RB#49



14:45:23 31. 01. 2023

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



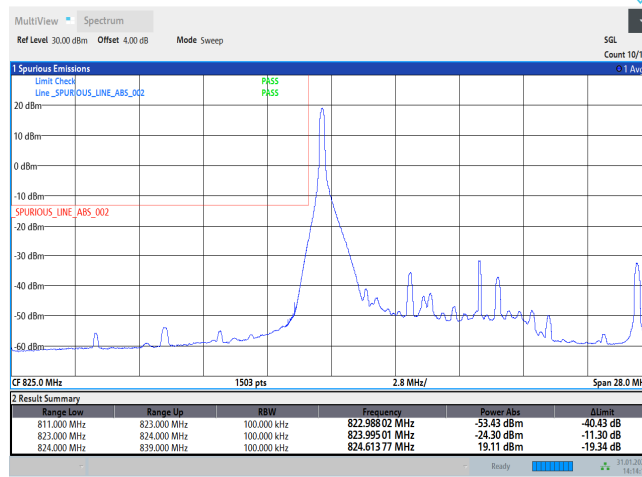
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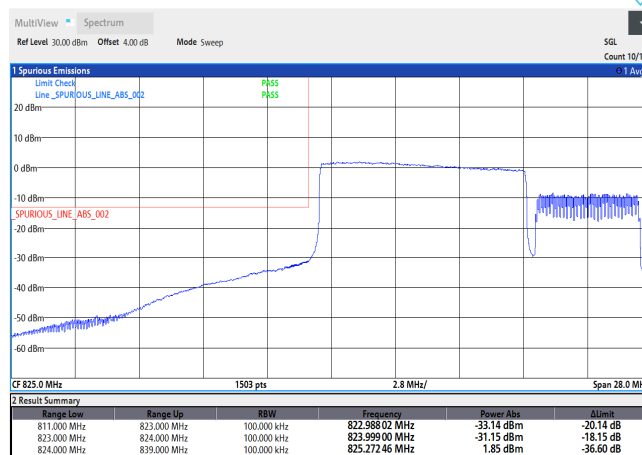
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5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-1RB#0-0RB#0



14:14:17 31. 01. 2023

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



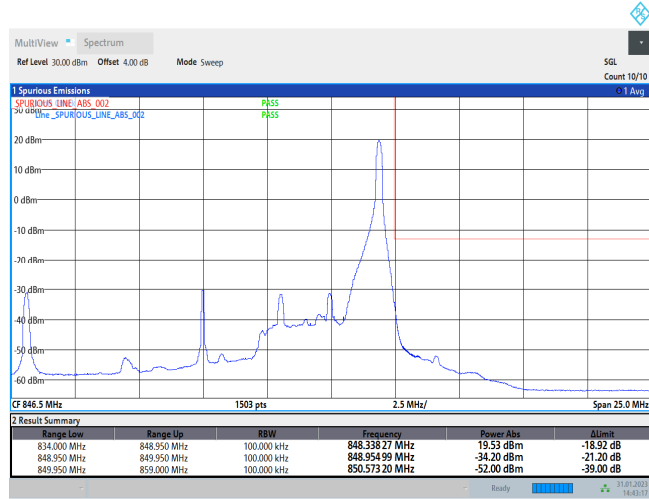
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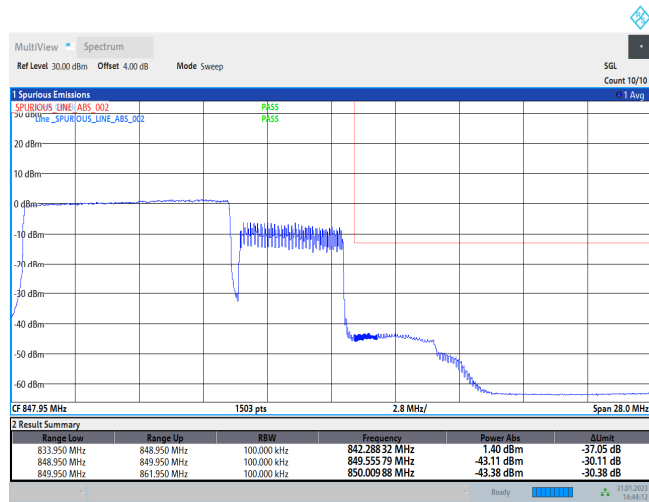
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5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-0RB#0-1RB#24



14:43:17 31. 01. 2023

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



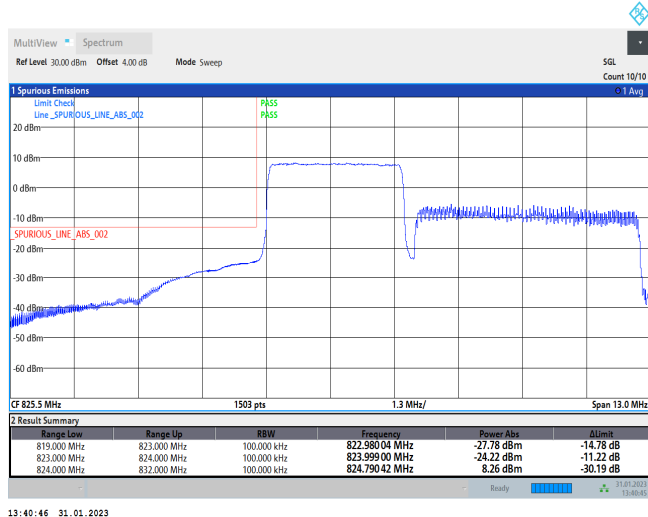
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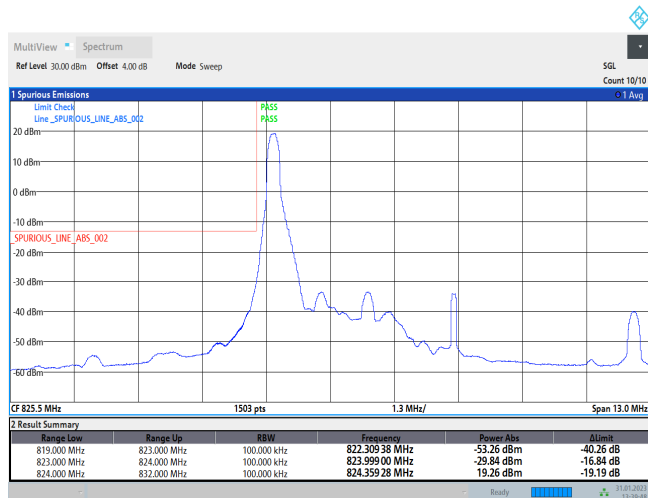
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5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



13:40:46 31.01.2023

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



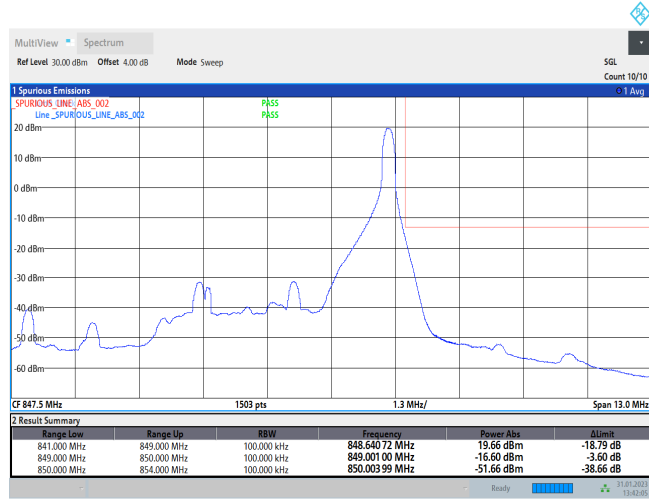
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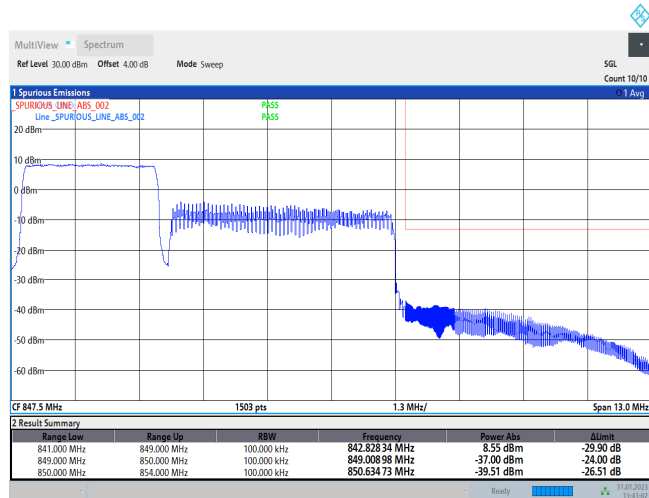
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5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-0RB#0-1RB#24



13:42:06 31.01.2023

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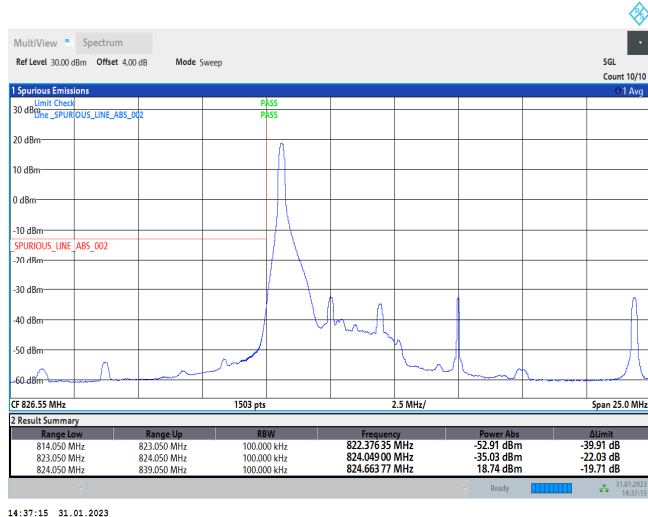
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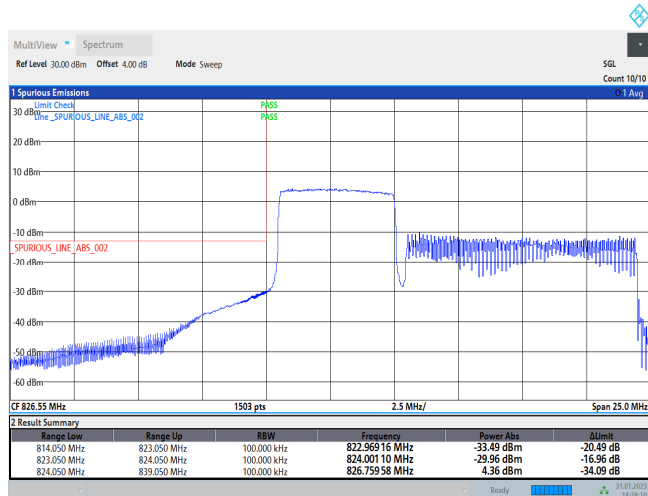
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5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



14:37:15 31.01.2023

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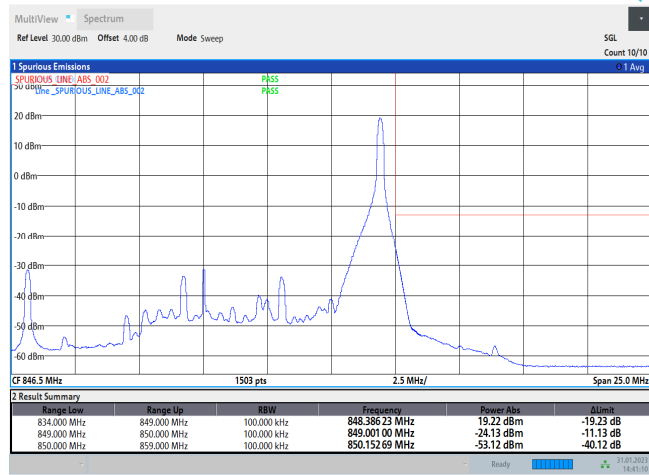
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5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



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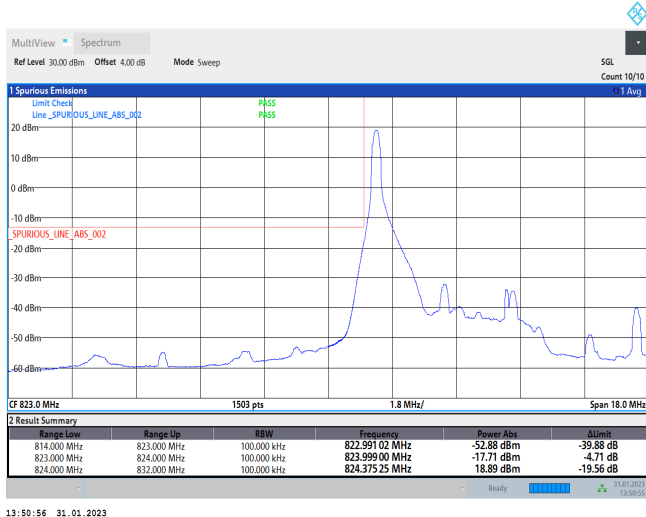
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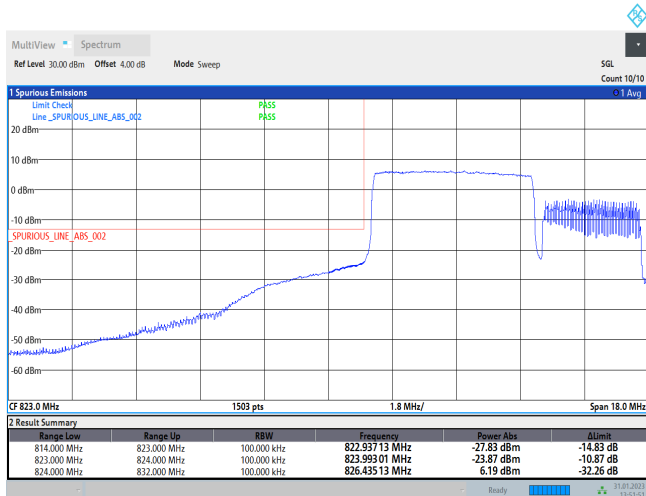
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5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-1RB#0-0RB#0



13:50:56 31.01.2023

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



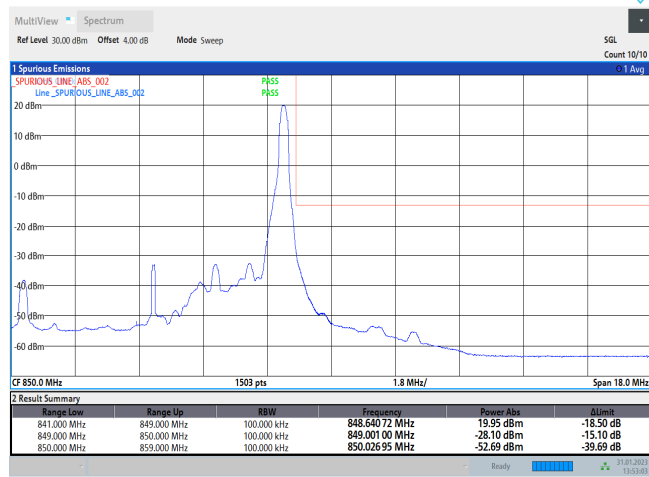
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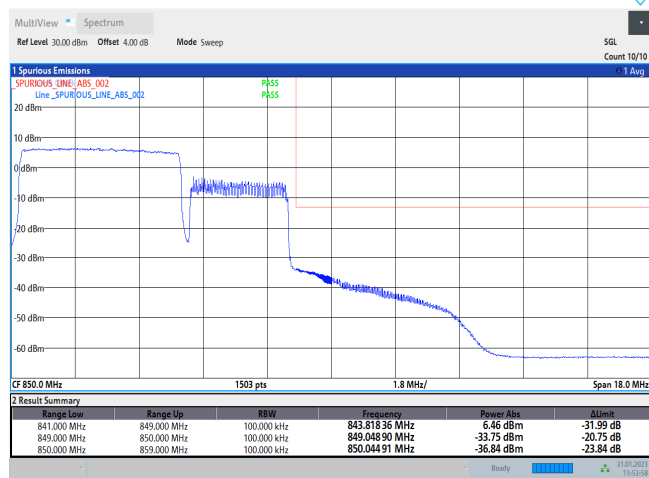
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5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-0RB#0-1RB#14



13:53:03 31.01.2023

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



13:53:59 31.01.2023

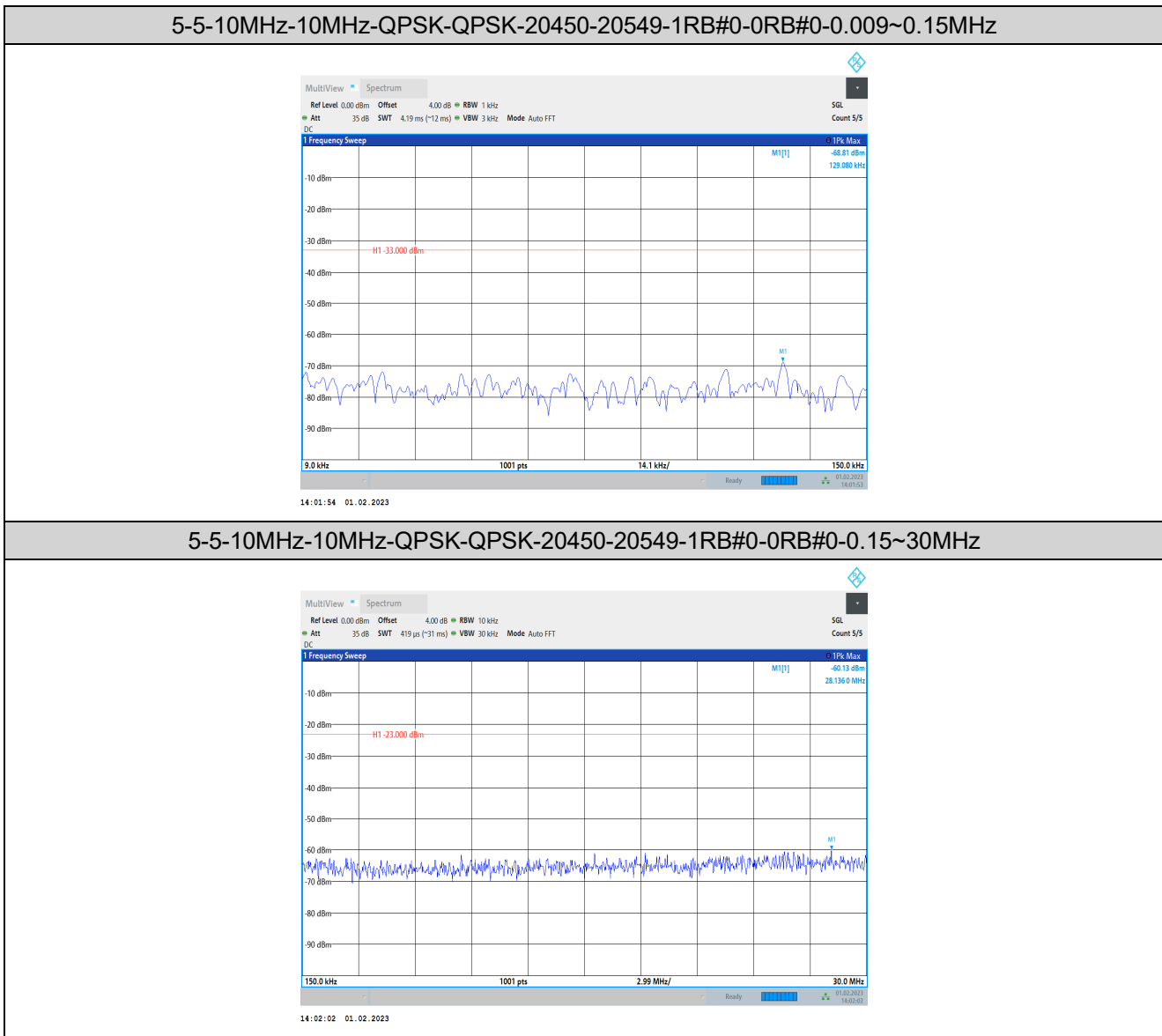


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Conducted Spurious Emission

Test Graphs

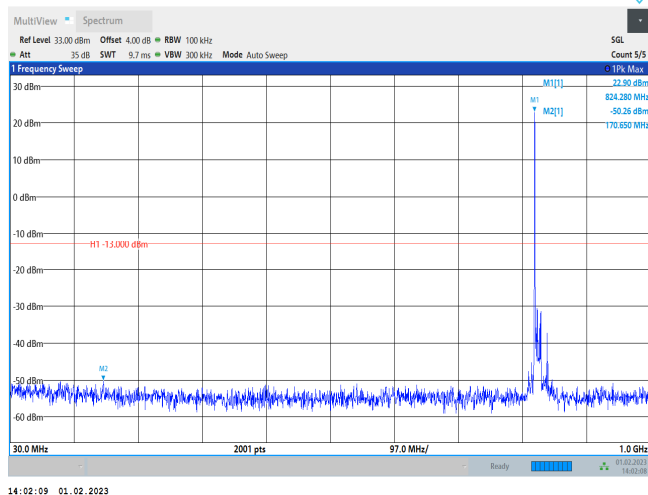


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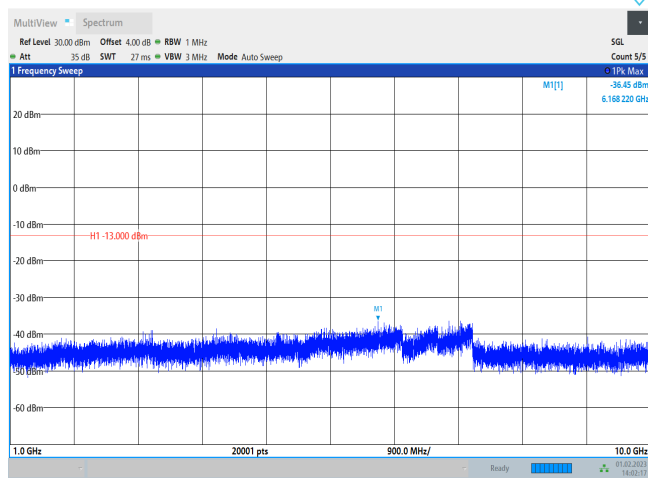
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5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-30~1000MHz



14:02:09 01.02.2023

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



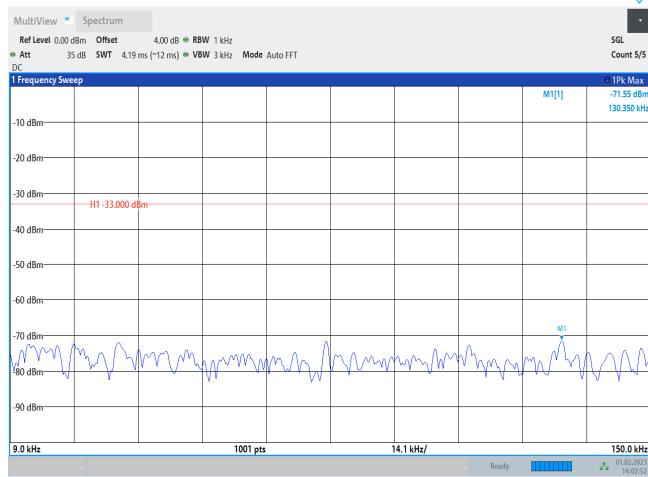
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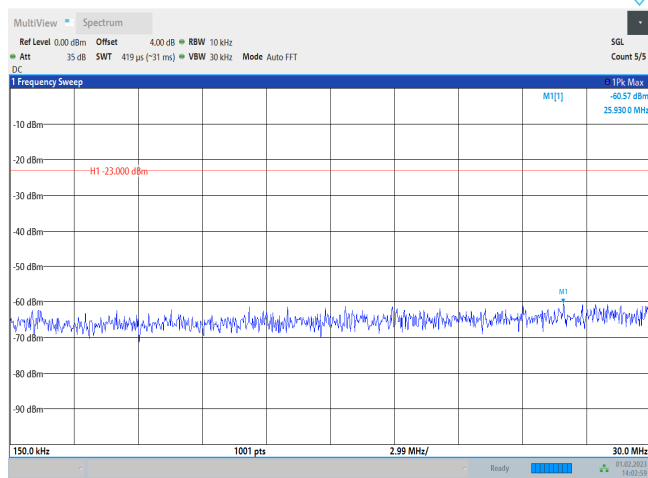
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.009~0.15MHz

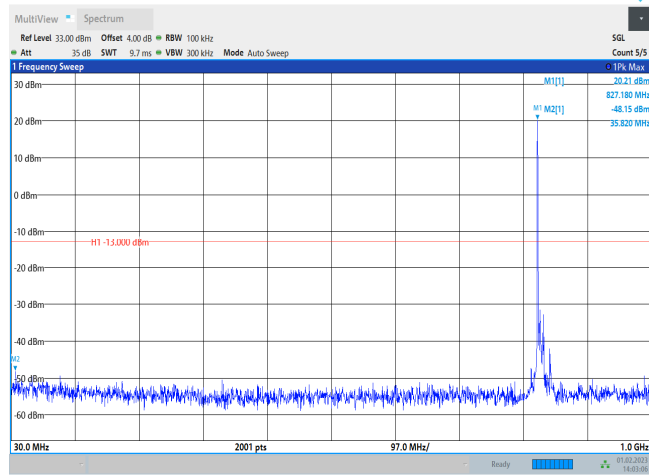


5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.15~30MHz



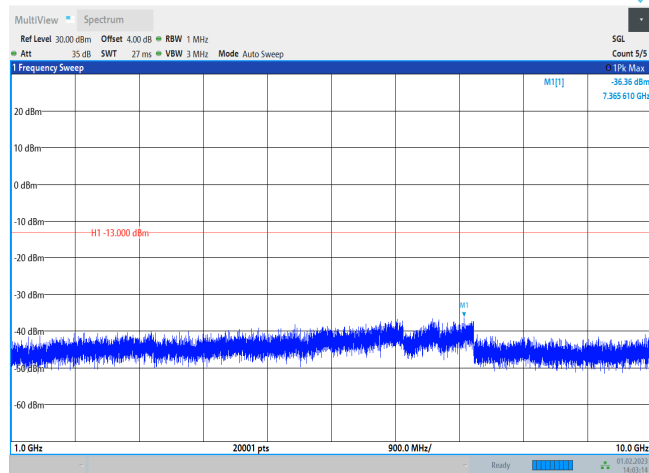
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5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



14:03:07 01.02.2023

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



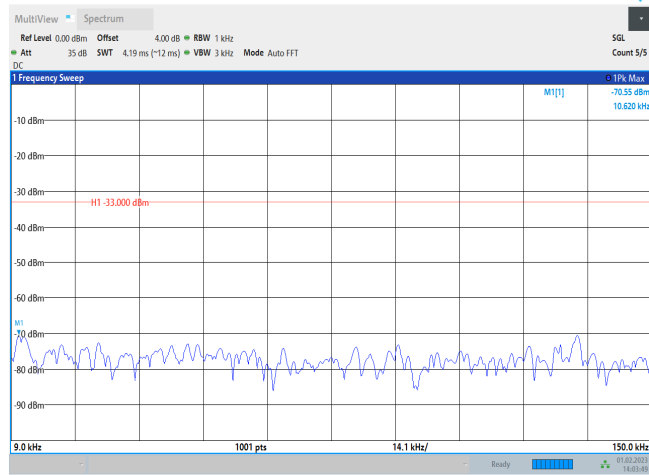
14:03:14 01.02.2023



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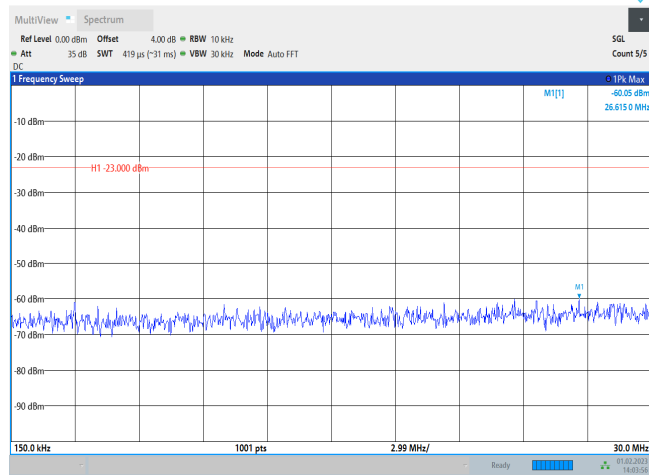
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



14:03:49 01.02.2023

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



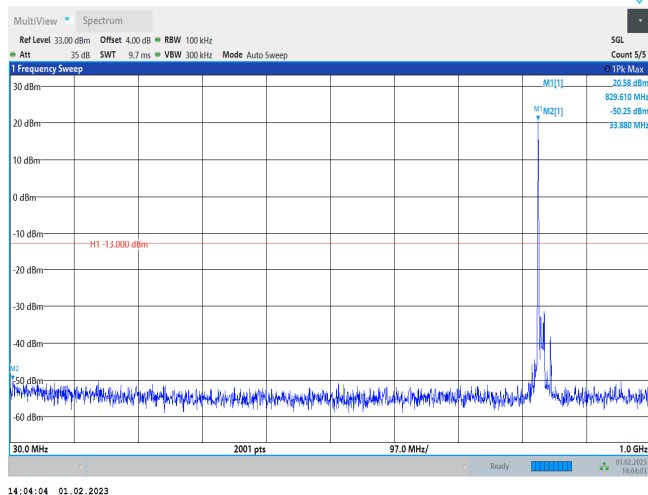
14:03:57 01.02.2023



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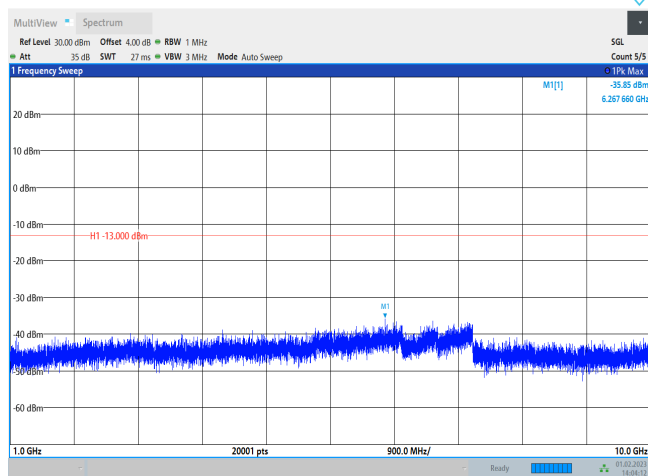
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



14:04:04 01.02.2023

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



14:04:12 01.02.2023



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Field Strength of Spurious Radiation

Test Band = LTE CA_5B_10MHz-10MHz_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	1648.1800	43.09	-48.22	25.37	-75.02	-13.00	62.02	142	267	Horizontal
2	2473.7700	42.51	-47.32	27.69	-72.38	-13.00	59.38	136	174	Horizontal
3	3298.3600	42.41	-46.68	29.56	-69.97	-13.00	56.97	256	293	Horizontal
4	4122.9500	40.79	-45.91	30.99	-69.40	-13.00	56.40	266	267	Horizontal
5	4947.5400	40.82	-45.69	32.73	-67.40	-13.00	54.40	145	226	Horizontal
6	5772.1000	40.04	-44.64	33.65	-66.21	-13.00	53.21	185	38	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	43.09	-48.22	25.37	-75.02	-13.00	62.02	148	125	Vertical
2	2473.7700	42.36	-47.32	27.69	-72.53	-13.00	59.53	168	23	Vertical
3	3298.3600	42.16	-46.68	29.56	-70.22	-13.00	57.22	177	225	Vertical
4	4122.9500	40.89	-45.91	30.99	-69.30	-13.00	56.30	199	352	Vertical
5	4947.5400	41.53	-45.69	32.73	-66.69	-13.00	53.69	153	155	Vertical
6	5772.1000	39.76	-44.64	33.65	-66.49	-13.00	53.49	261	305	Vertical



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Test Band = LTE CA_5B_10MHz-10MHz_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	43.19	-48.21	25.37	-74.91	-13.00	61.91	174	82	Horizontal
2	2481.5700	42.24	-47.30	27.71	-72.61	-13.00	59.61	155	147	Horizontal
3	3308.7600	42.73	-46.67	29.54	-69.65	-13.00	56.65	148	95	Horizontal
4	4135.9500	42.14	-45.92	31.00	-68.04	-13.00	55.04	198	18	Horizontal
5	4963.1400	40.86	-45.73	32.78	-67.35	-13.00	54.35	152	162	Horizontal
6	5790.3300	40.49	-44.65	33.72	-65.71	-13.00	52.71	133	176	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	43.43	-48.21	25.37	-74.67	-13.00	61.67	245	12	Vertical
2	2481.5700	41.97	-47.30	27.71	-72.88	-13.00	59.88	174	351	Vertical
3	3308.7600	42.33	-46.67	29.54	-70.05	-13.00	57.05	156	172	Vertical
4	4135.9500	41.01	-45.92	31.00	-69.17	-13.00	56.17	133	359	Vertical
5	4963.1400	40.29	-45.73	32.78	-67.92	-13.00	54.92	259	225	Vertical
6	5790.3300	39.76	-44.65	33.72	-66.44	-13.00	53.44	147	360	Vertical



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Test Band = LTE CA_5B_10MHz-10MHz_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	47.12	-48.06	25.41	-70.79	-13.00	57.79	247	107	Horizontal
2	2624.0700	56.41	-46.96	28.15	-57.66	-13.00	44.66	148	54	Horizontal
3	3498.7600	42.37	-46.54	29.52	-69.91	-13.00	56.91	195	134	Horizontal
4	4373.4500	41.06	-45.86	31.46	-68.60	-13.00	55.60	182	200	Horizontal
5	5248.1400	40.81	-45.14	32.94	-66.64	-13.00	53.64	133	293	Horizontal
6	6122.8300	39.45	-44.74	34.17	-66.37	-13.00	53.37	231	121	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	47.69	-48.06	25.41	-70.22	-13.00	57.22	247	252	Vertical
2	2624.0700	54.83	-46.96	28.15	-59.24	-13.00	46.24	148	79	Vertical
3	3498.7600	43.17	-46.54	29.52	-69.11	-13.00	56.11	156	356	Vertical
4	4373.4500	40.54	-45.86	31.46	-69.12	-13.00	56.12	291	160	Vertical
5	5248.1400	41.04	-45.14	32.94	-66.41	-13.00	53.41	183	305	Vertical
6	6122.8300	40.15	-44.74	34.17	-65.67	-13.00	52.67	213	53	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

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	18.40	0.022126	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VL	NT	15.80	0.019000	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VN	NT	19.20	0.023088	±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	50	20.00	0.024050	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	40	18.70	0.022487	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	30	19.00	0.022848	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	20	18.90	0.022727	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	10	17.90	0.021525	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	0	18.10	0.021765	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-10	20.10	0.024170	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-20	18.80	0.022607	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-30	19.30	0.023208	±2.5	PASS

---End of Attachment---



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