Appendix B.16

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	22.65	19.4	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	21.47	18.22	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	22.66	19.41	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	21.44	18.19	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	22.7	19.45	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	21.52	18.27	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	21.85	18.6	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	20.54	17.29	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	21.68	18.43	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	20.5	17.25	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	21.87	18.62	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	20.56	17.31	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	20.88	17.63	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	20.49	17.24	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	20.89	17.64	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	20.49	17.24	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	20.9	17.65	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	20.51	17.26	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	1RB#0-0RB#0	17.95	14.7	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	18.5	15.25	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	1RB#0-0RB#0	17.91	14.66	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.49	15.24	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	1RB#0-0RB#0	17.77	14.52	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.5	15.25	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	22.64	19.39	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	21.48	18.23	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	22.53	19.28	38.45	PASS

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5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	21.53	18.28	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	22.56	19.31	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	21.55	18.3	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	21.92	18.67	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	20.52	17.27	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	21.87	18.62	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	20.45	17.2	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	21.83	18.58	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	20.58	17.33	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	20.93	17.68	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	20.47	17.22	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	20.84	17.59	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	20.49	17.24	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	20.84	17.59	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	20.55	17.3	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	1RB#0-0RB#0	17.98	14.73	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	18.43	15.18	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	1RB#0-0RB#0	17.87	14.62	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	18.45	15.2	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	1RB#0-0RB#0	17.99	14.74	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	18.55	15.3	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	23.56	20.31	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	1RB#0-0RB#0	22.8	19.55	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	23.61	20.36	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	1RB#0-0RB#0	22.68	19.43	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	23.74	20.49	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	1RB#0-0RB#0	22.76	19.51	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	23.64	20.39	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	1RB#0-0RB#0	23.04	19.79	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	23.95	20.7	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	1RB#0-0RB#0	22.86	19.61	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	23.87	20.62	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	1RB#0-0RB#0	23.18	19.93	38.45	PASS

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5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	23.66	20.41	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	1RB#0-0RB#0	23.16	19.91	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	23.68	20.43	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	1RB#0-0RB#0	23.17	19.92	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	23.78	20.53	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	1RB#0-0RB#0	23.01	19.76	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	23.63	20.38	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	1RB#0-0RB#0	23.12	19.87	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	23.8	20.55	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	1RB#0-0RB#0	23.19	19.94	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	23.81	20.56	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	1RB#0-0RB#0	23.12	19.87	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	22.68	19.43	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	21.46	18.21	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	22.72	19.47	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	21.44	18.19	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	22.73	19.48	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	21.59	18.34	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	21.91	18.66	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	20.56	17.31	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	21.86	18.61	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	20.52	17.27	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	21.83	18.58	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	20.59	17.34	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	21.04	17.79	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	20.52	17.27	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	20.8	17.55	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	20.42	17.17	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	21.04	17.79	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	20.55	17.3	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	1RB#0-0RB#0	17.94	14.69	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	18.45	15.2	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	1RB#0-0RB#0	17.92	14.67	38.45	PASS

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5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	18.47	15.22	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	1RB#0-0RB#0	17.87	14.62	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	18.51	15.26	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	1RB#0-0RB#0	22.8	19.55	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	23.6	20.35	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	1RB#0-0RB#0	22.75	19.5	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	23.62	20.37	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	1RB#0-0RB#0	22.85	19.6	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	23.72	20.47	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	1RB#0-0RB#0	23.17	19.92	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	23.77	20.52	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	1RB#0-0RB#0	22.94	19.69	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	24.35	21.1	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	1RB#0-0RB#0	23	19.75	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	23.68	20.43	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	1RB#0-0RB#0	23.13	19.88	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	23.74	20.49	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	1RB#0-0RB#0	23.11	19.86	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	23.63	20.38	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	1RB#0-0RB#0	23.27	20.02	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	23.63	20.38	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	1RB#0-0RB#0	23.13	19.88	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	23.65	20.4	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	1RB#0-0RB#0	23.07	19.82	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	23.63	20.38	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	1RB#0-0RB#0	23.09	19.84	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	23.62	20.37	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	6.34	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	6.34	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	6.26	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	6.84	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	6.84	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	6.86	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	6.94	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	6.90	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	6.90	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	7.30	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	7.34	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	7.34	13	PASS

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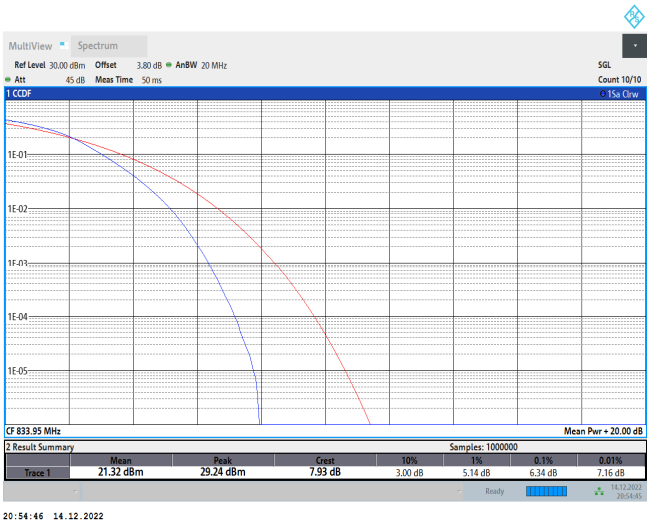
Test Graphs

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



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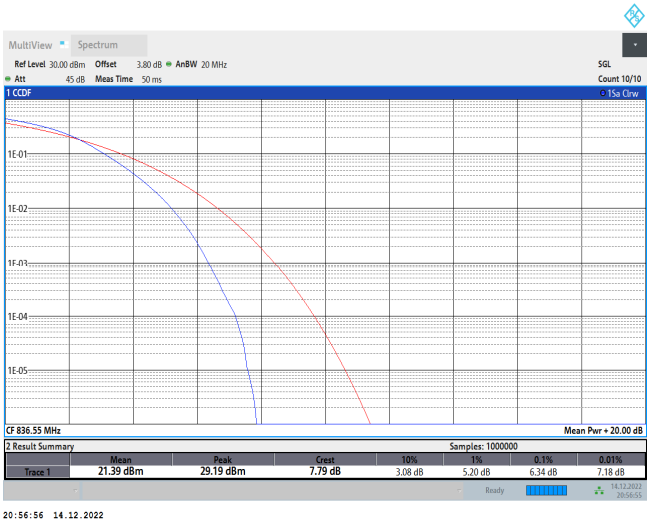

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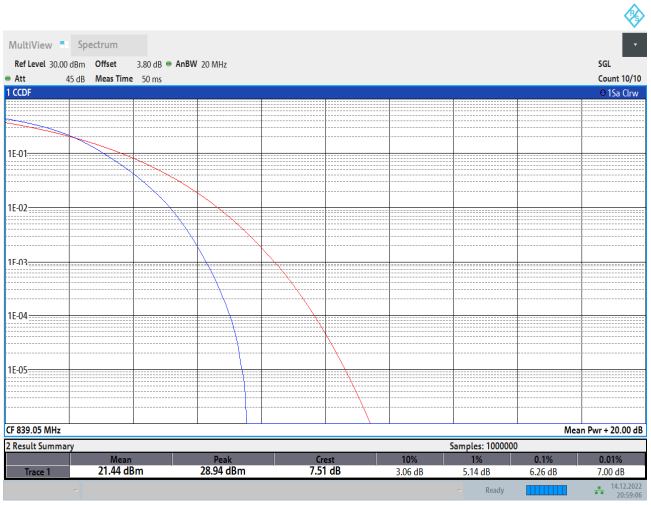
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



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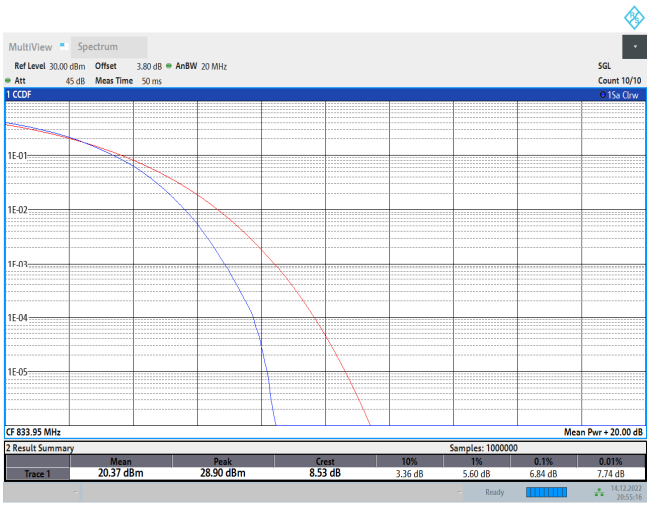

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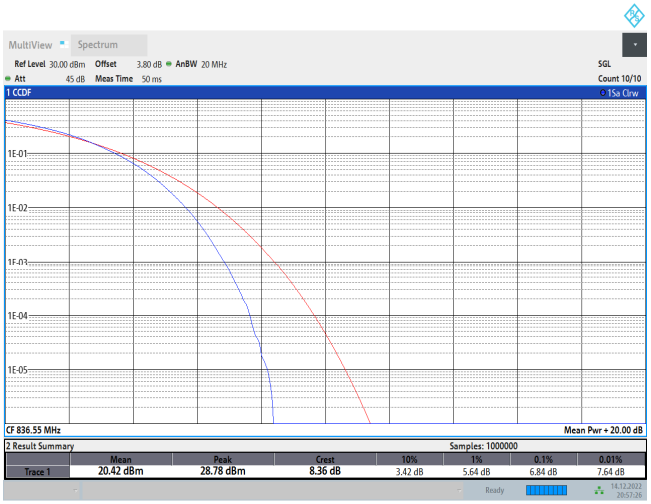
5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



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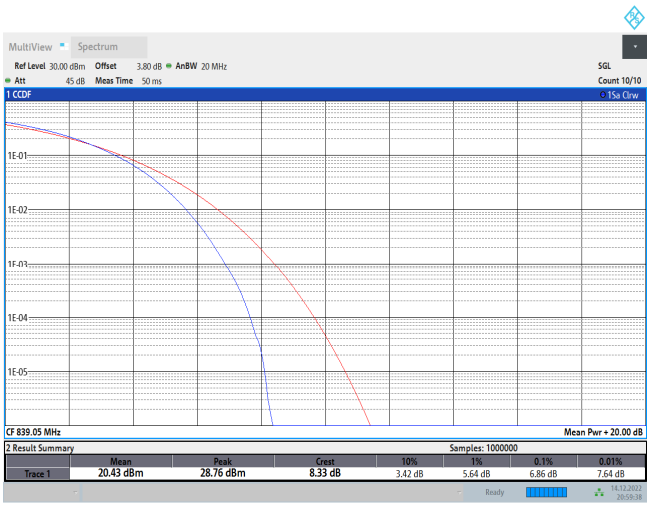

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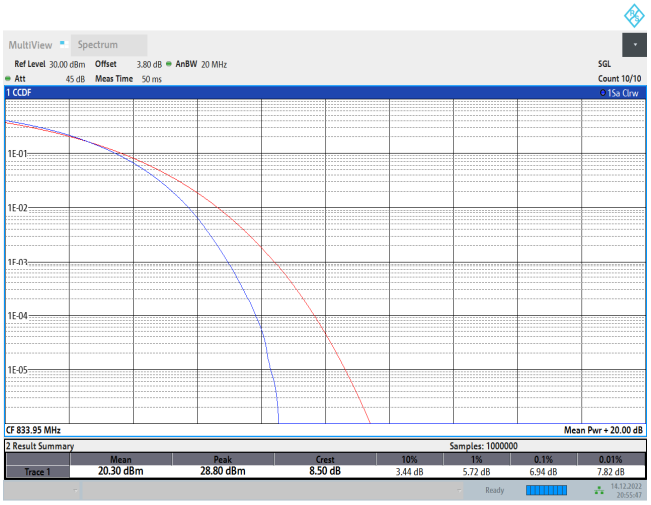
5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



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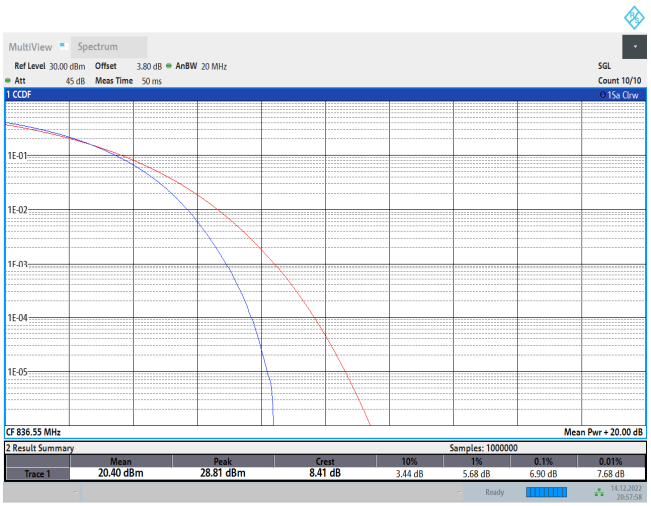
5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



20:57:58 14.12.2022

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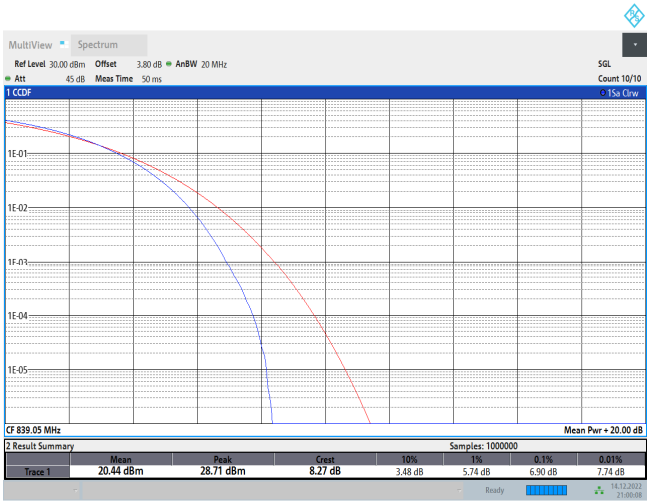
5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



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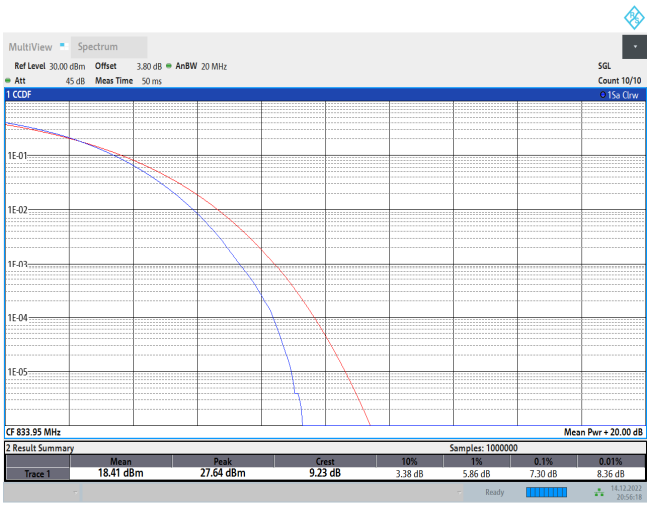

20:56:18 14.12.2022

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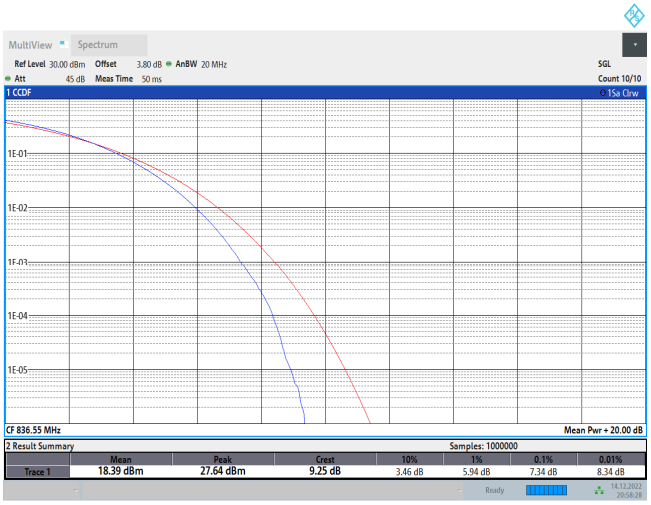

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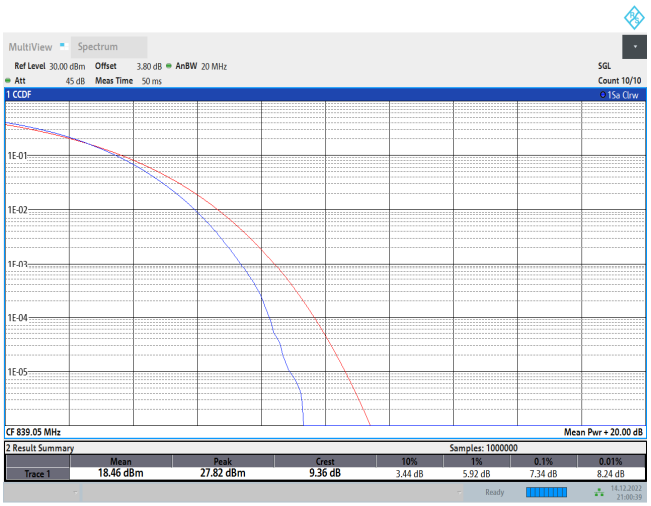

21:00:39 14.12.2022

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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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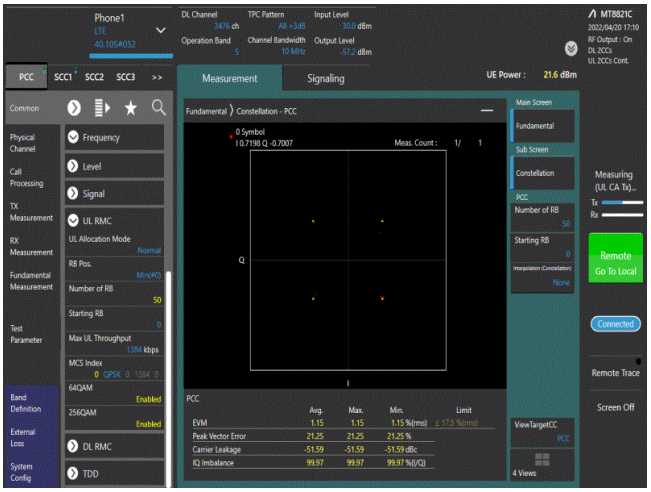
Test Graphs

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



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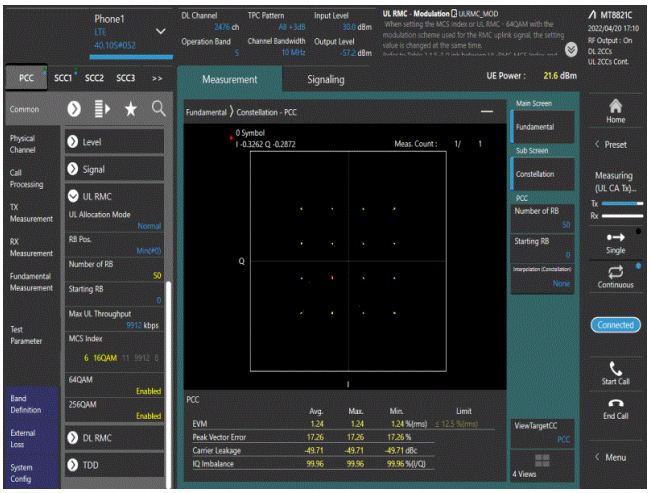

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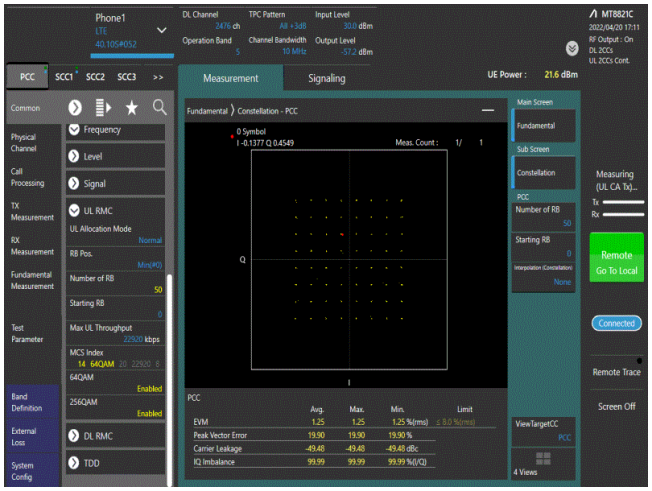
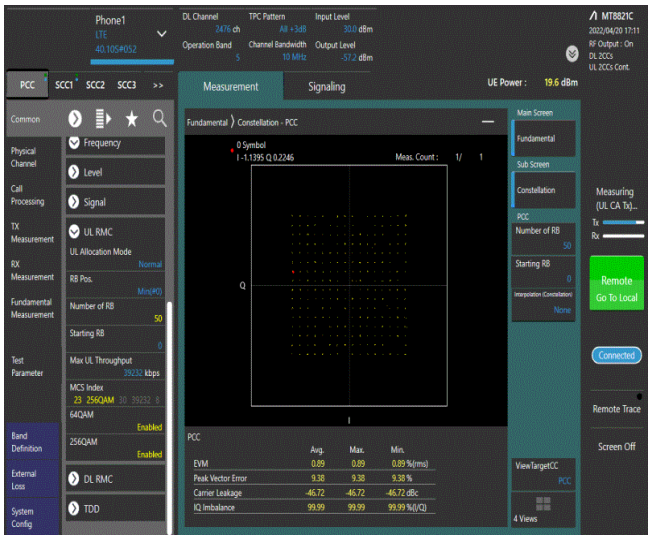
5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



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	18.791	20.28	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.858	20.32	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	18.843	20.24	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	18.843	20.20	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.826	20.28	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	18.819	20.28	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	18.8	20.28	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.858	20.36	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	18.782	20.32	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	18.826	20.40	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.827	20.20	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.789	20.36	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	13.863	15.09	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.948	15.09	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	13.871	15.09	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	13.868	15.09	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.934	15.09	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	13.908	15.03	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	13.861	15.06	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.931	15.12	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	13.907	15.06	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	13.857	14.97	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	13.929	15.09	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	13.857	15.09	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	7.477	8.10	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	7.514	8.22	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	7.492	8.08	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	7.505	8.10	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	7.532	8.93	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	7.494	9.10	PASS

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

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5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	7.489	8.80	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	7.545	9.66	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	7.501	8.99	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	7.505	8.62	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	7.547	9.81	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	7.523	9.82	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	13.844	14.91	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.893	14.85	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	13.85	14.85	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	13.806	14.79	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.877	14.91	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	13.83	14.73	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	13.833	14.85	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.879	14.88	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	13.82	14.79	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	13.765	14.91	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	13.905	14.91	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	13.828	14.79	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	7.507	8.21	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	7.519	8.29	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	7.519	8.24	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	7.503	8.69	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	7.539	9.42	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	7.509	9.55	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	7.525	10.90	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	7.564	10.13	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	7.544	10.32	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	7.534	8.30	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	7.554	10.46	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	7.533	11.94	PASS

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Test Graphs

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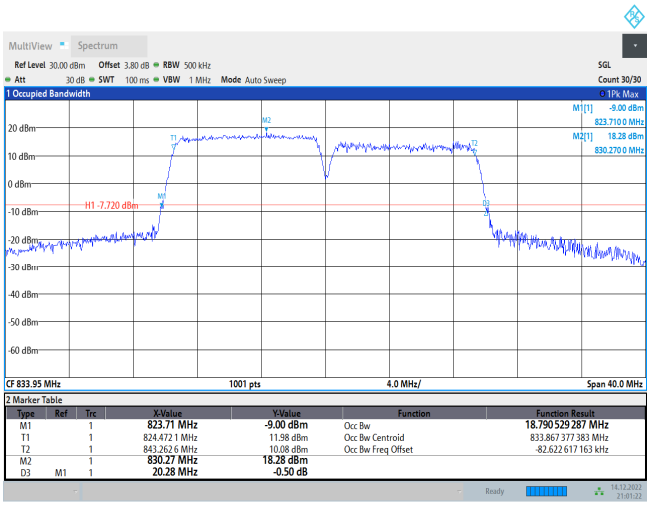

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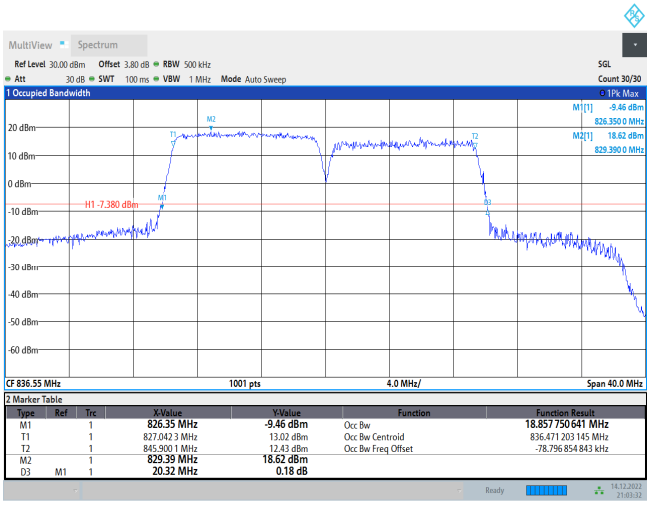
5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



21:03:32 14.12.2022

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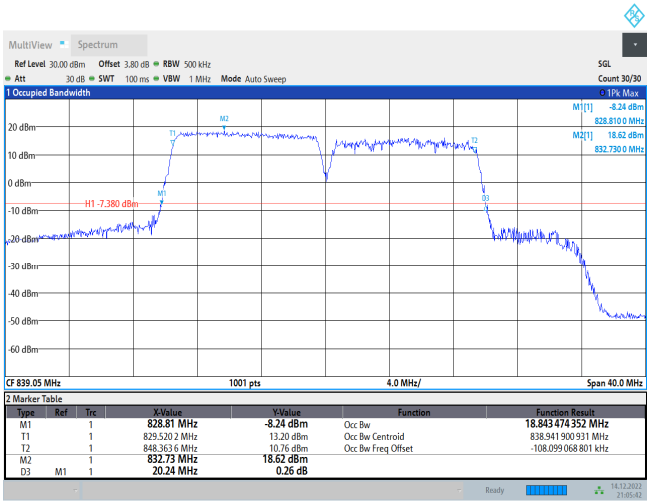

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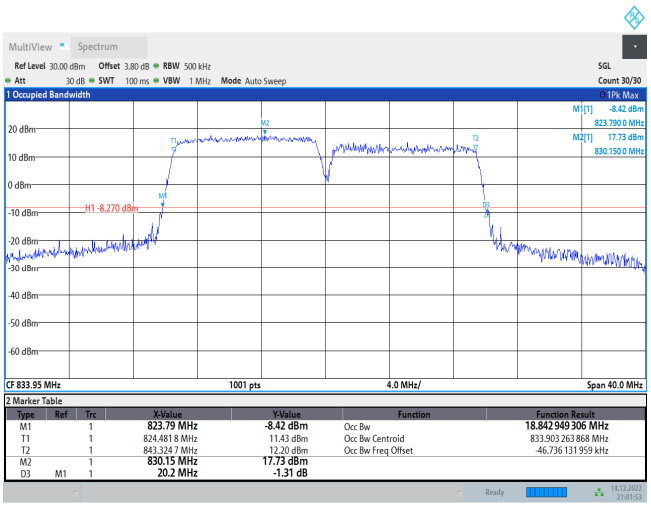

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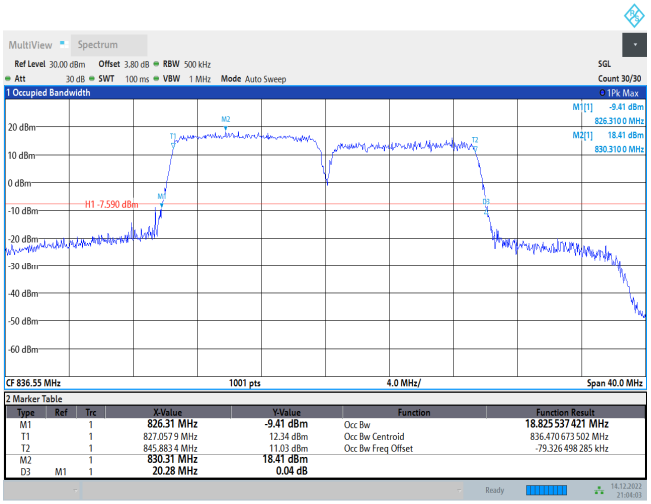

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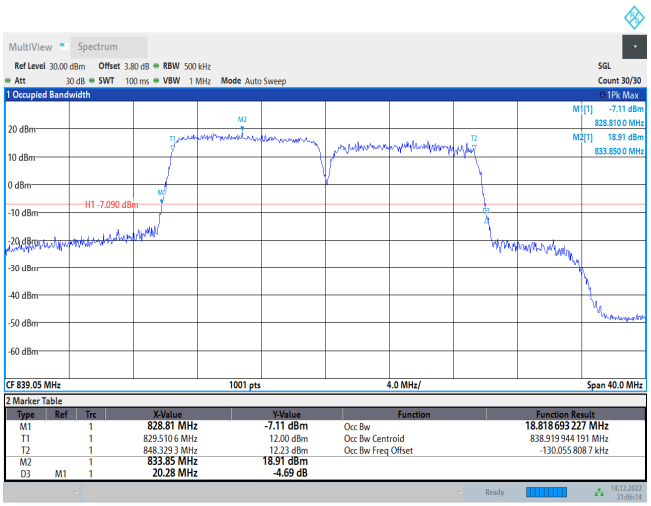

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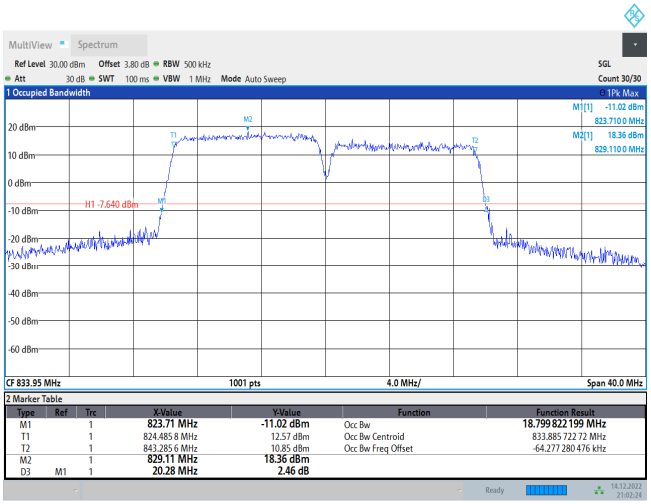
5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



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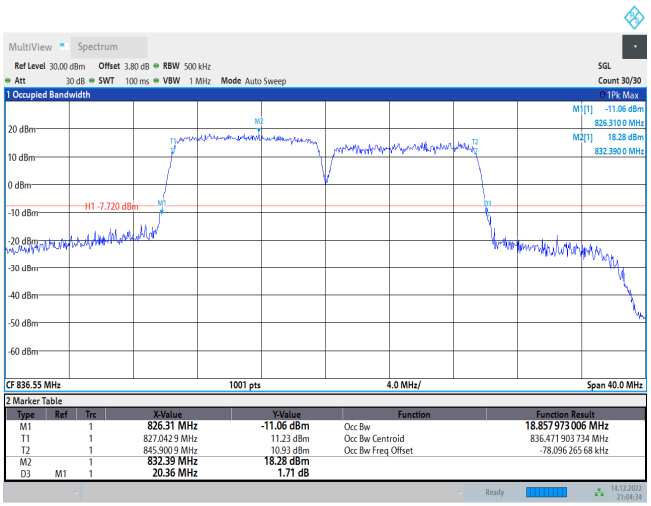
5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



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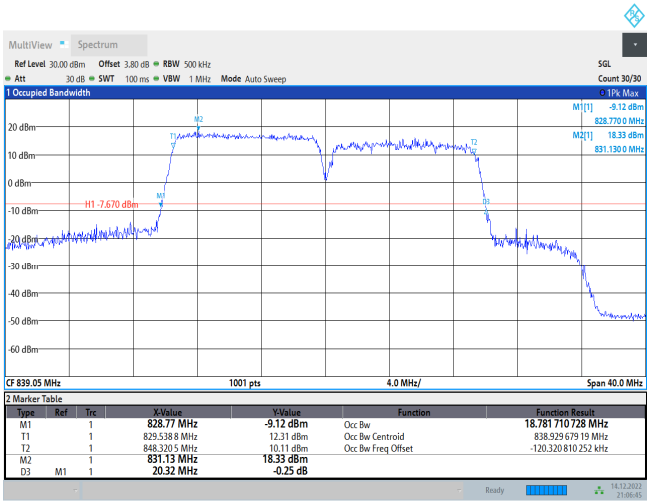
5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



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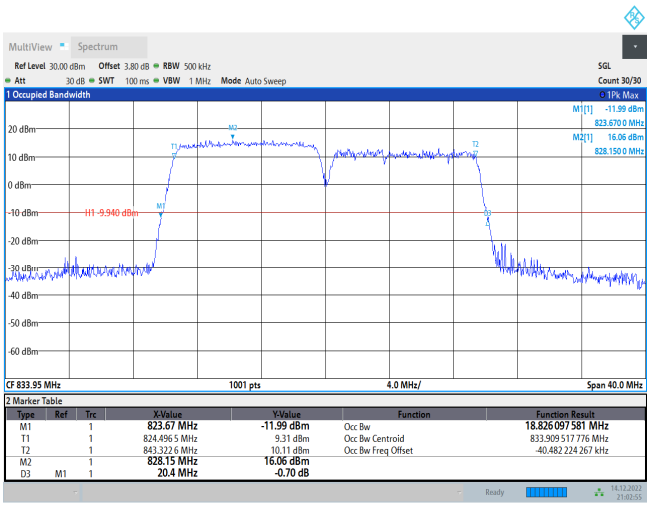

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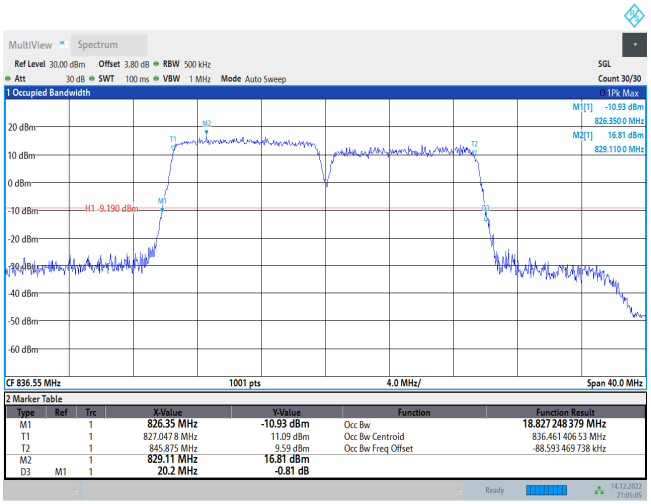

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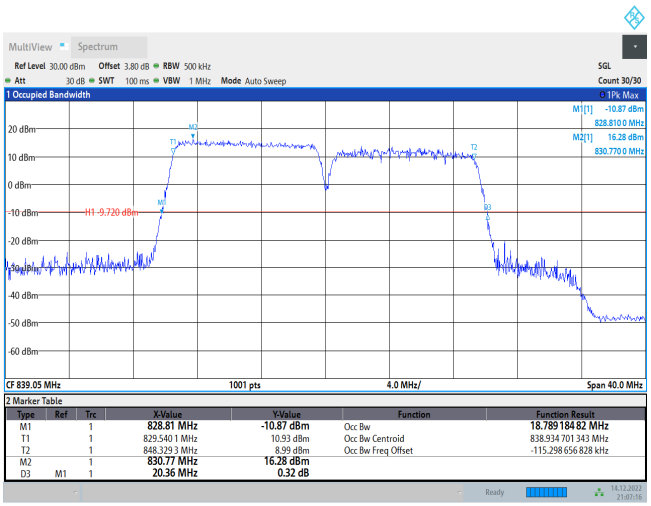

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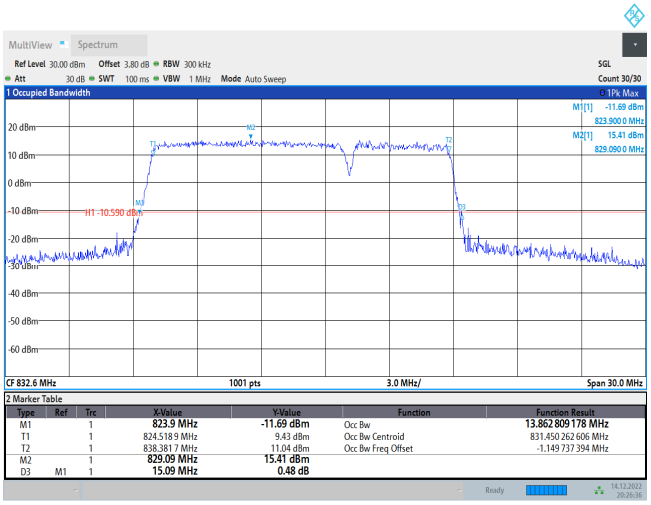
5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



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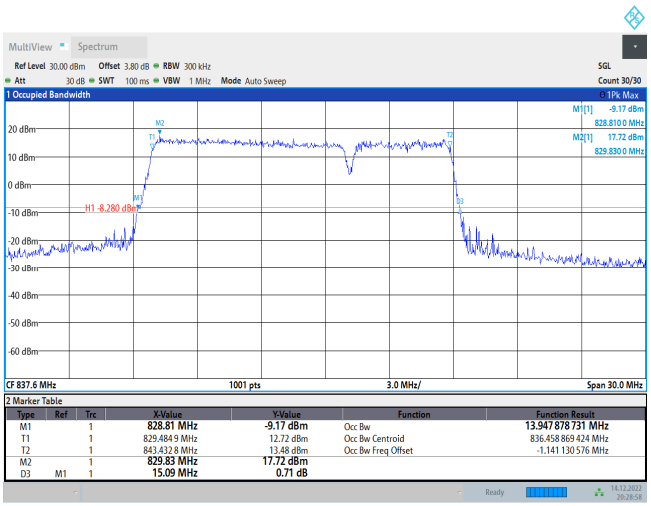

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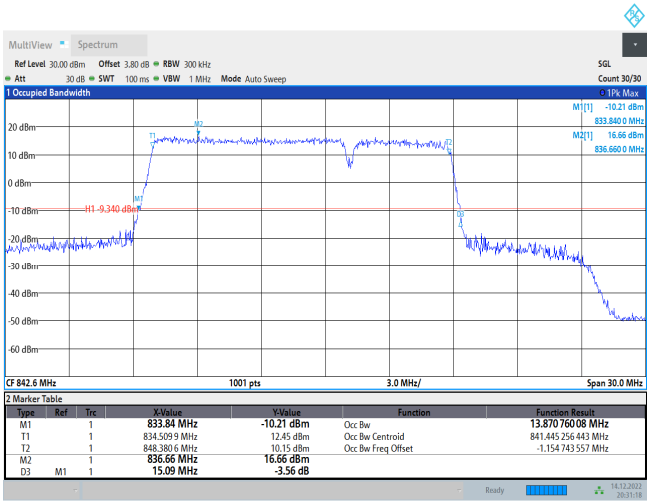

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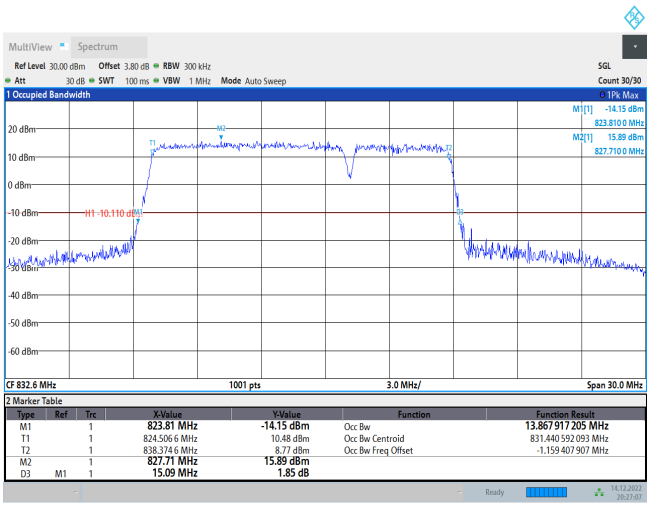

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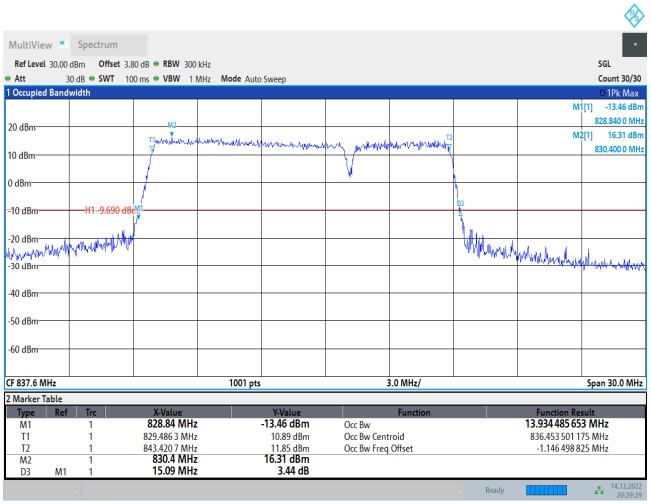

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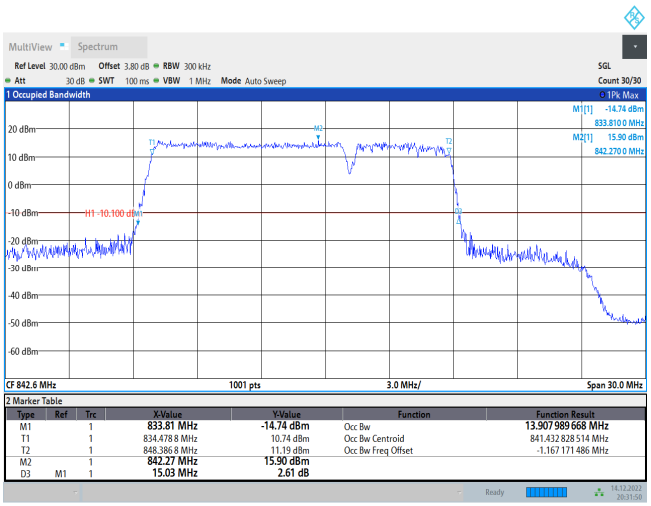

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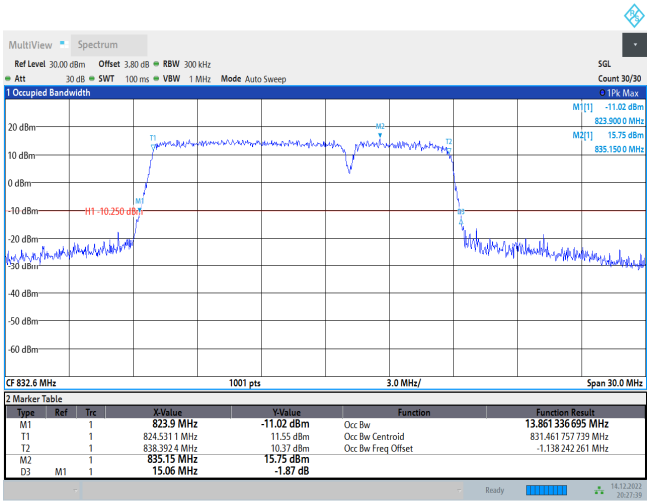
5-5-10MHz-5MHz-64QAM-64QAM-20450-20522-50RB#0-25RB#0



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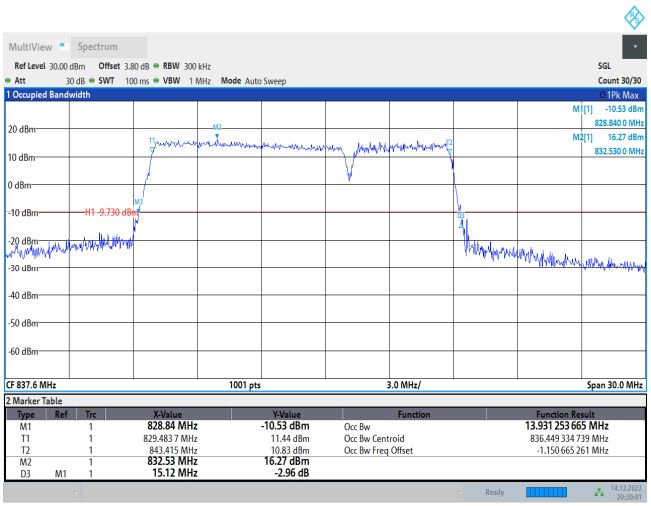

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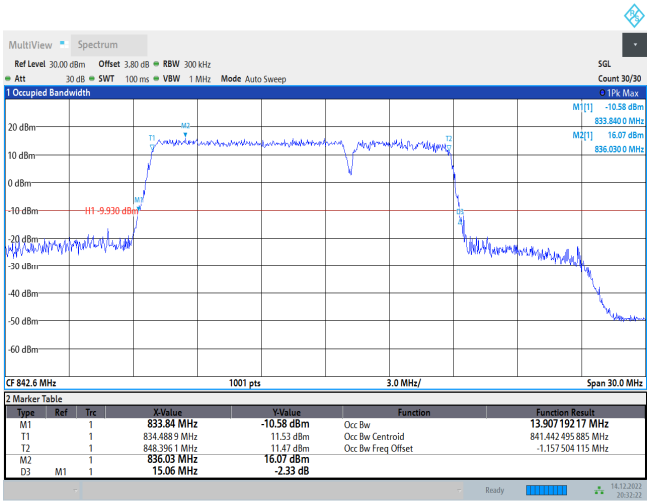
5-5-10MHz-5MHz-64QAM-64QAM-20550-20622-50RB#0-25RB#0



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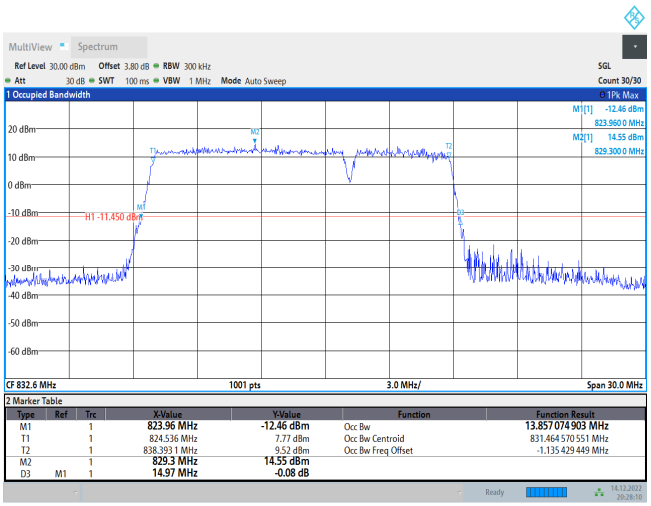

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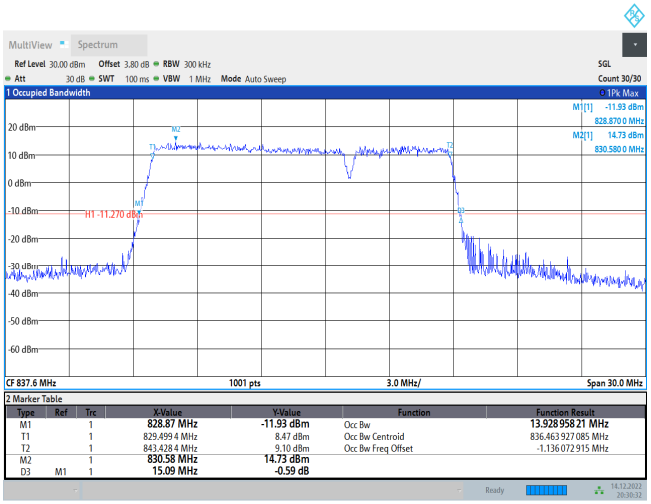

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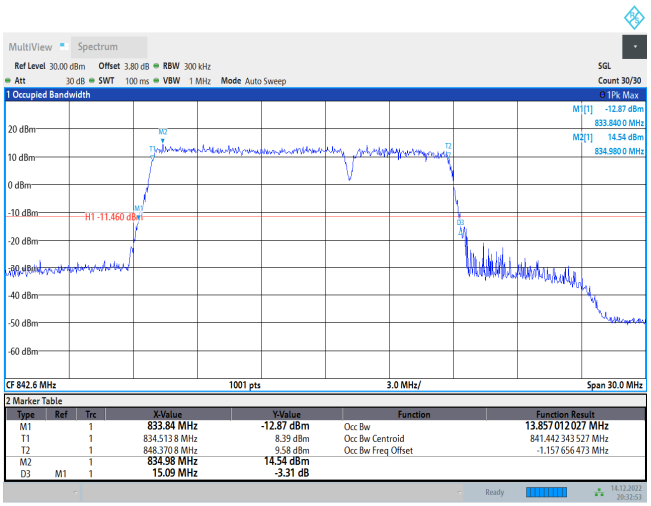

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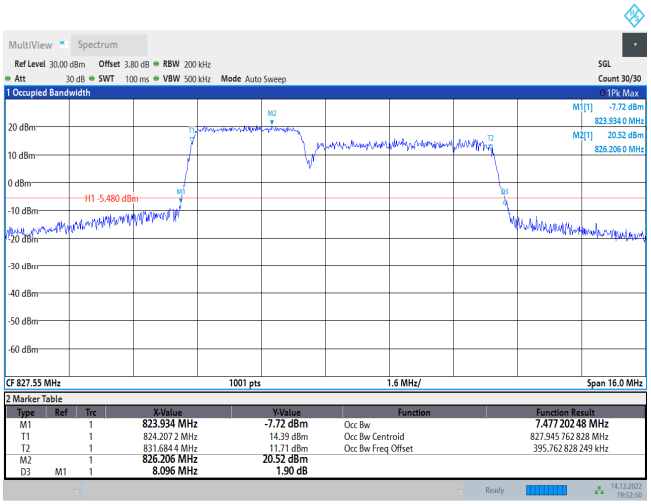
5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



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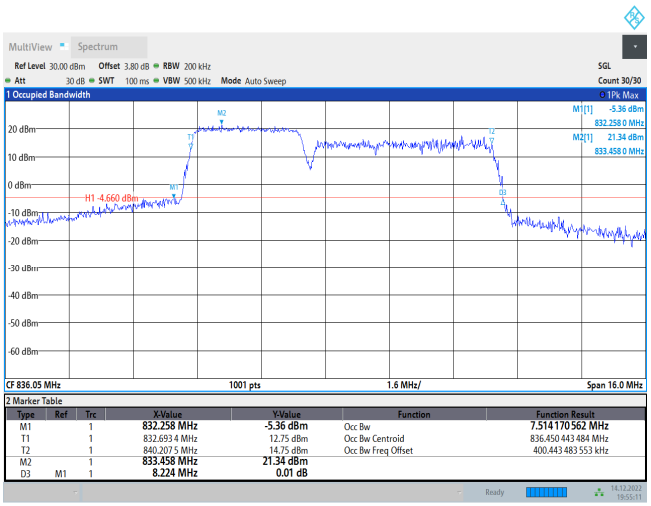

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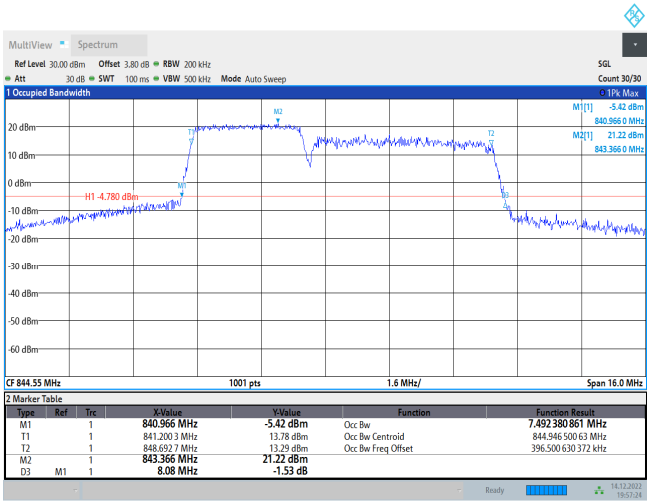

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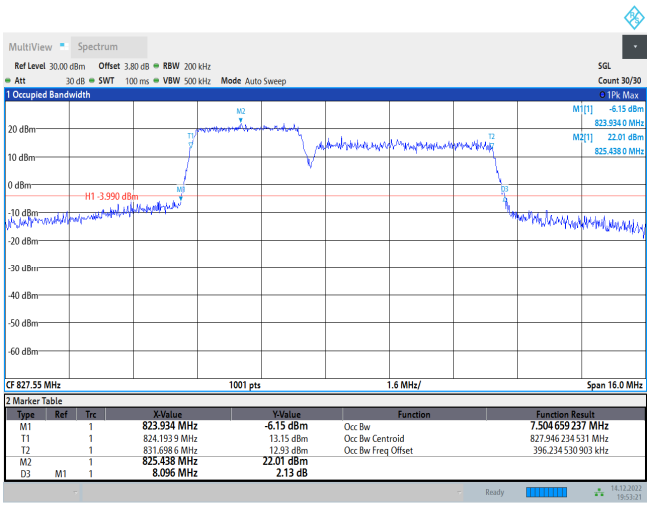

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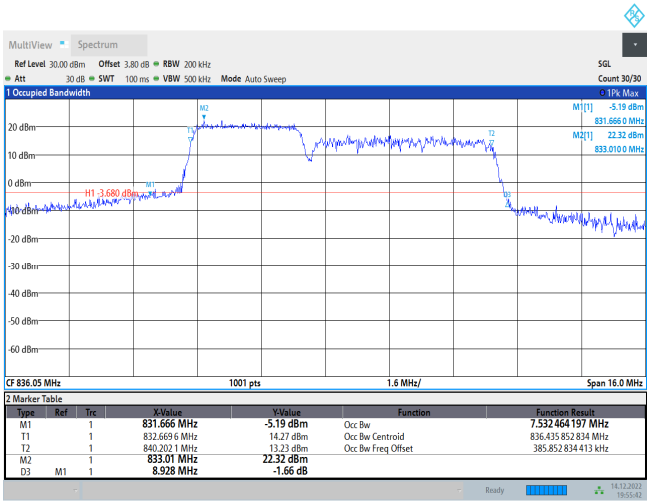
5-5-3MHz-5MHz-16QAM-16QAM-20501-20540-15RB#0-25RB#0



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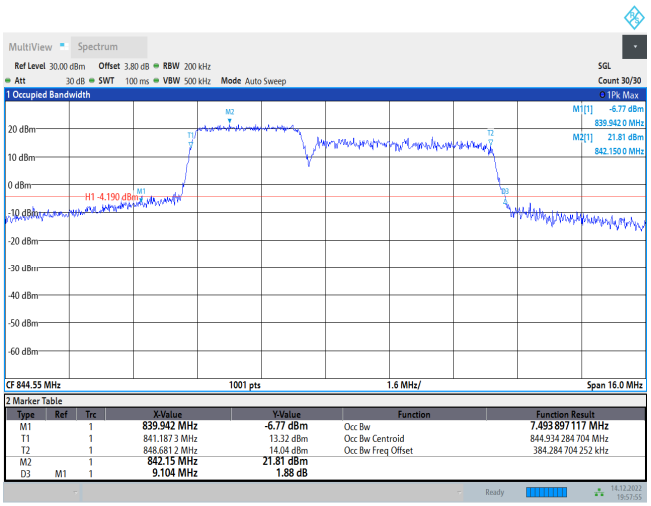

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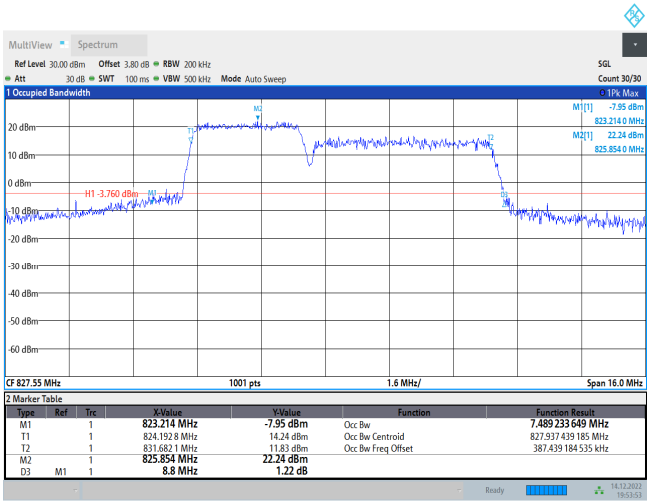

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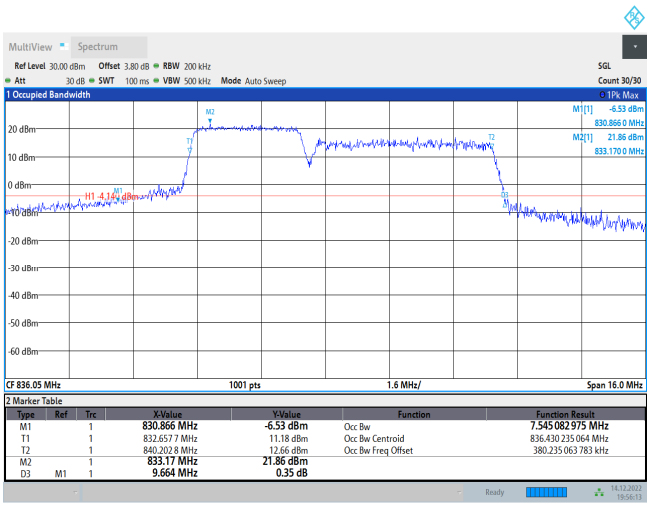

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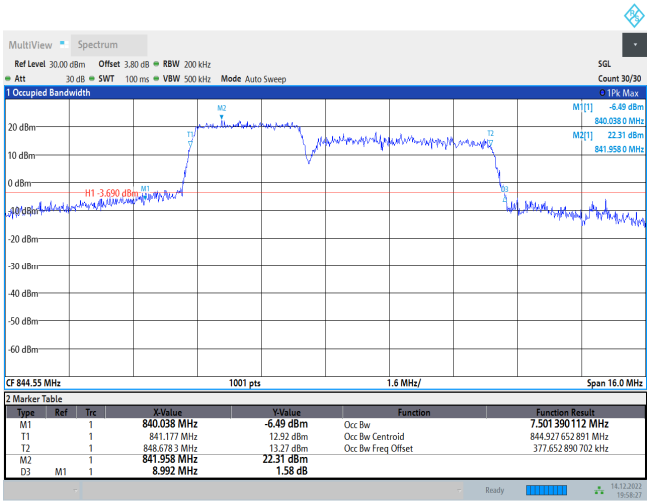

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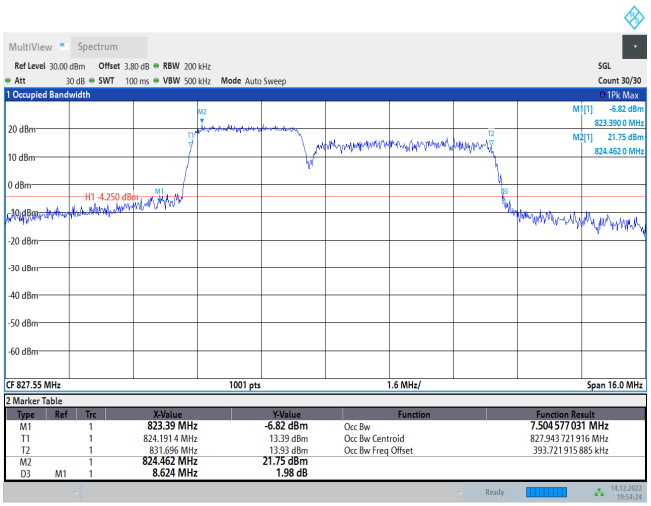

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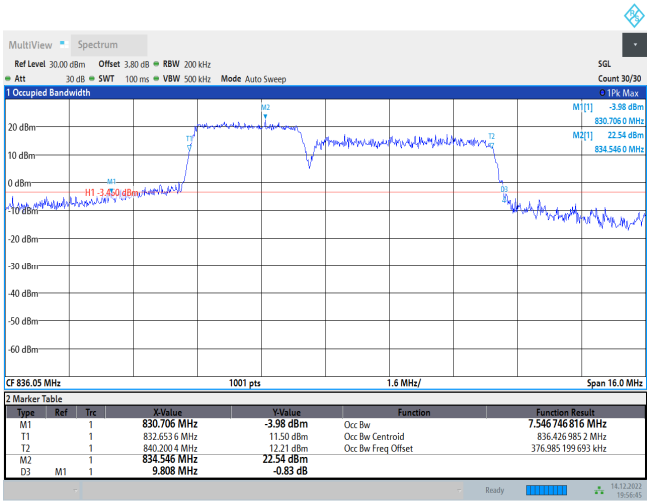

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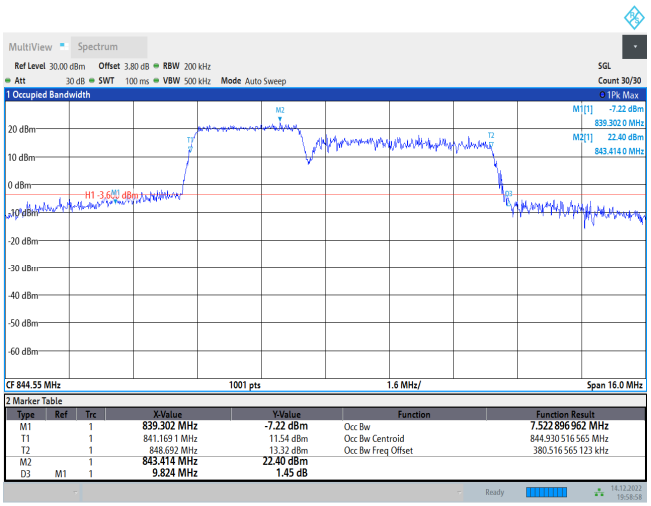

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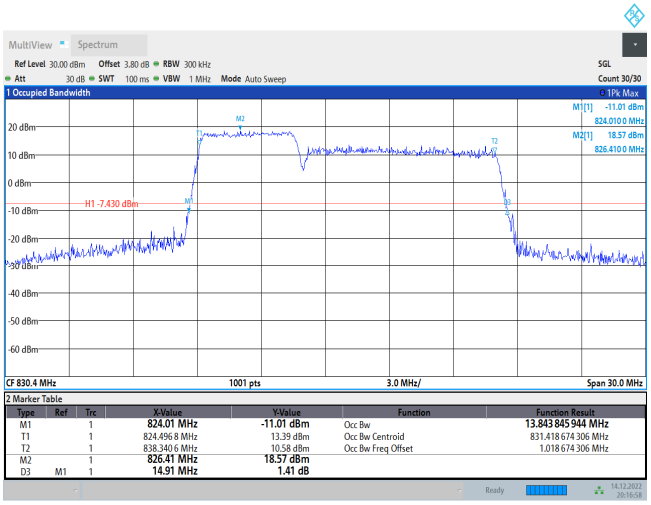
5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



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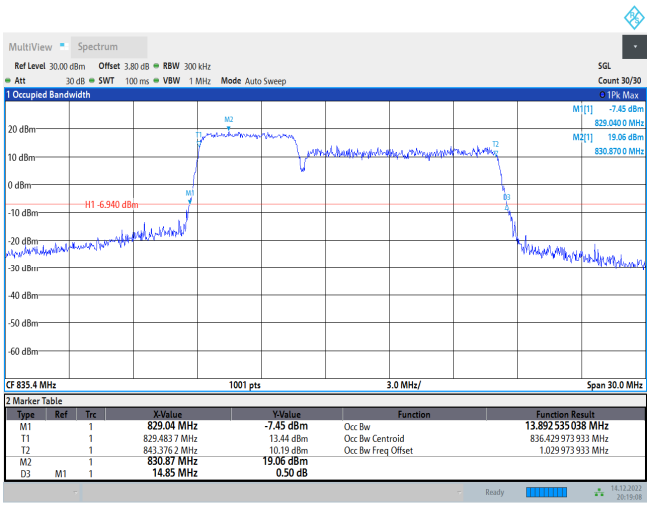

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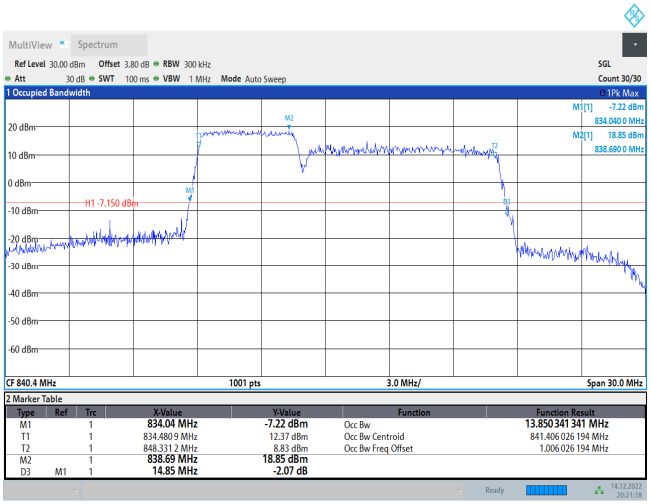

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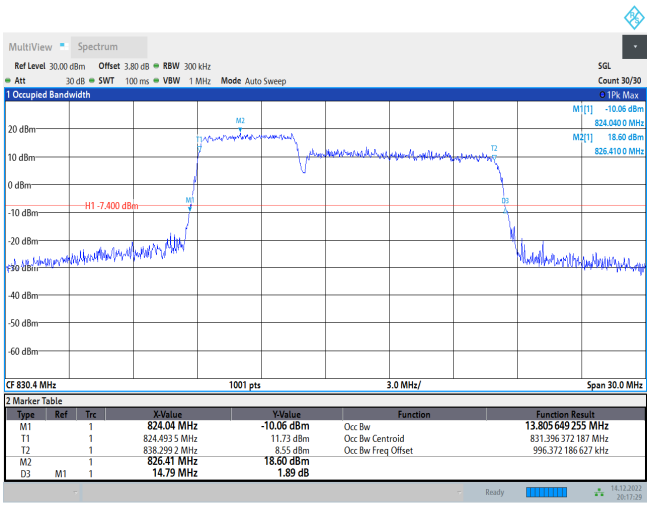

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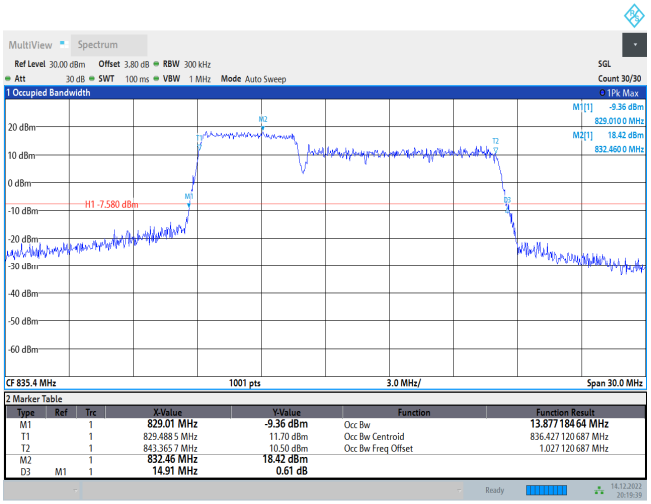

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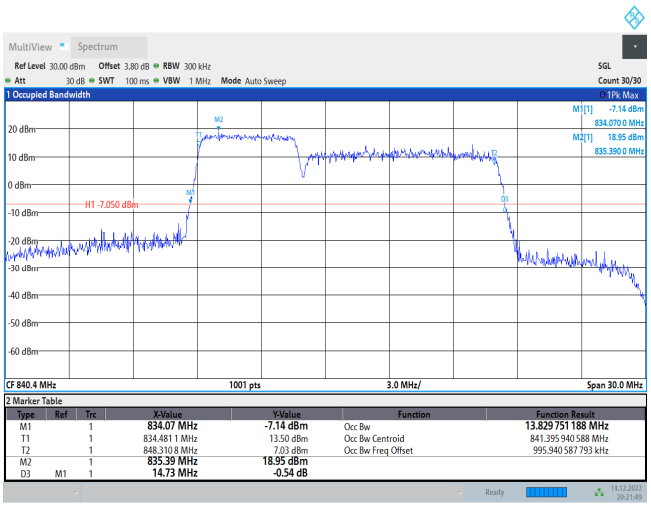

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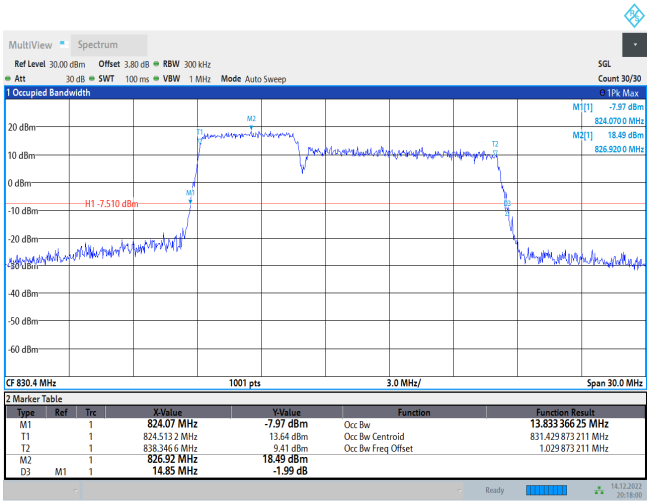

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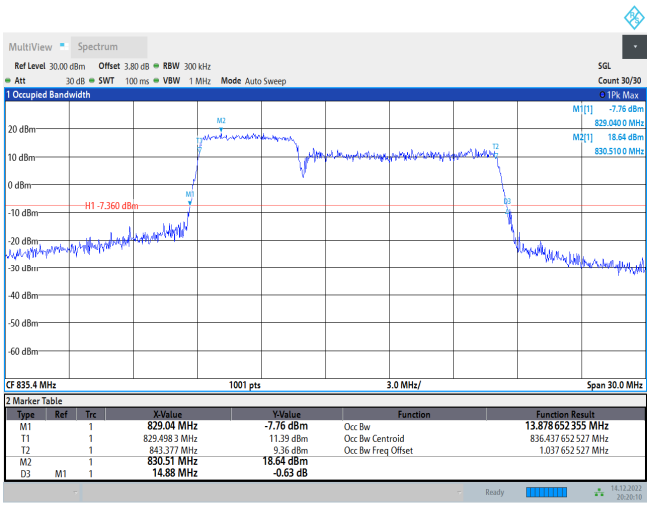

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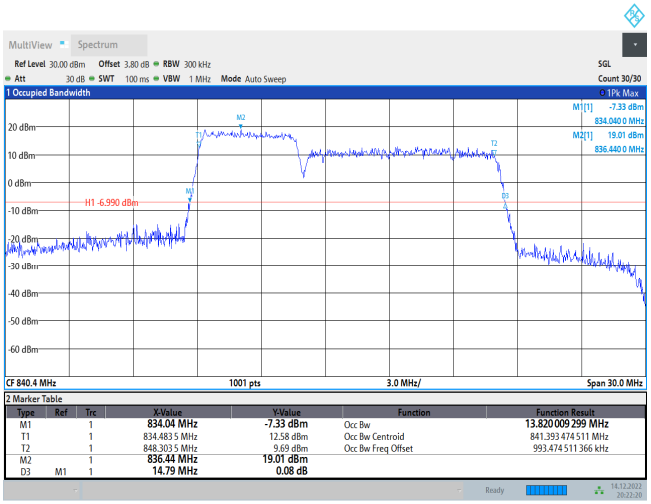

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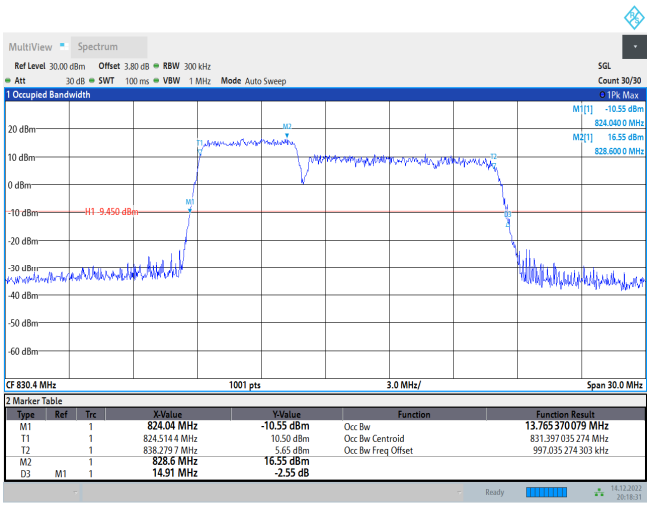

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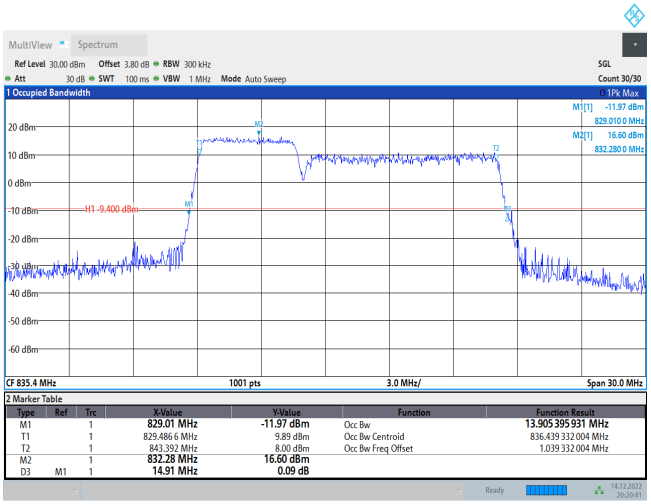

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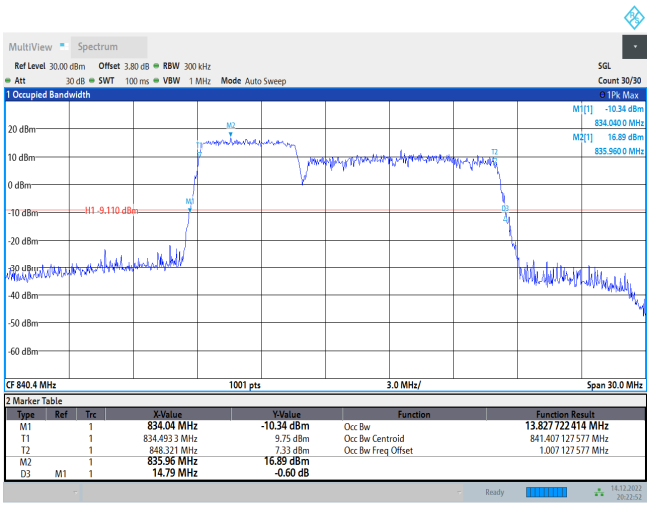

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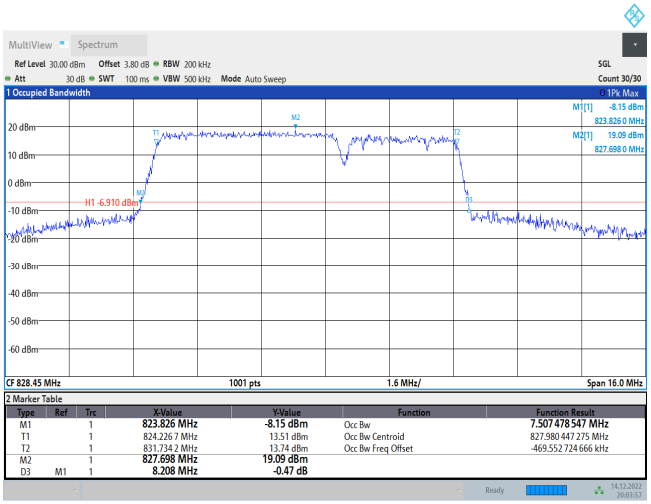

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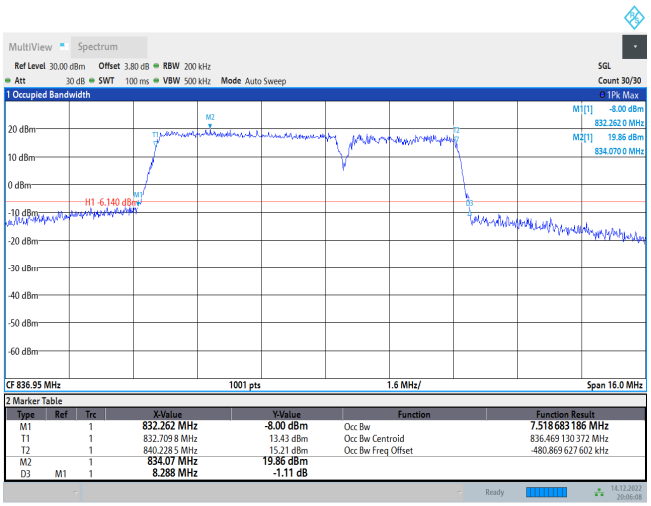

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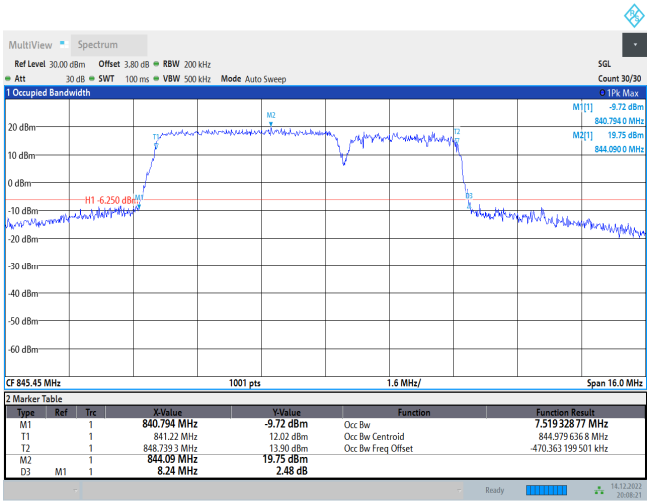

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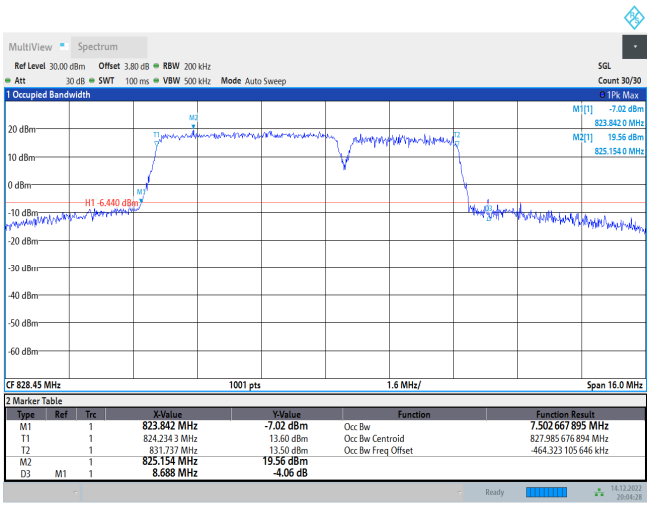

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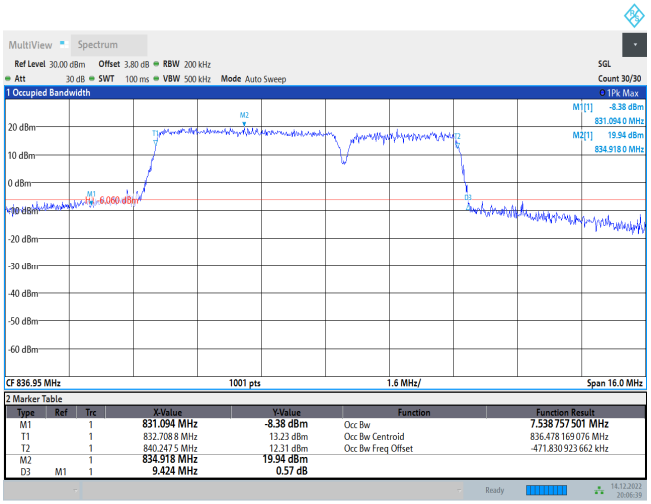
5-5-5MHz-3MHz-16QAM-16QAM-20510-20549-25RB#0-15RB#0



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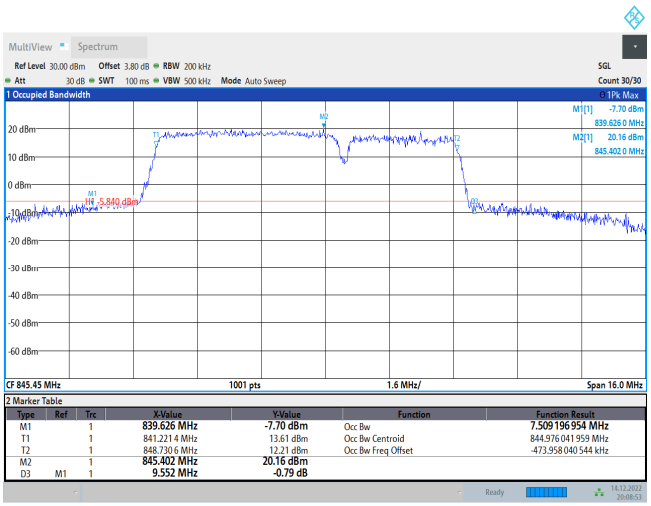

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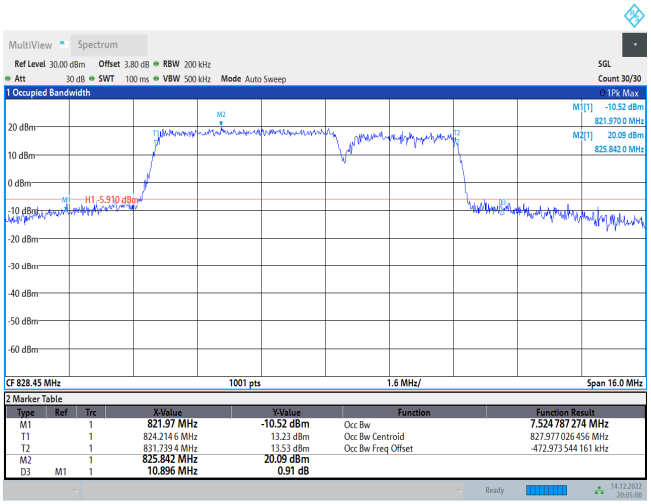

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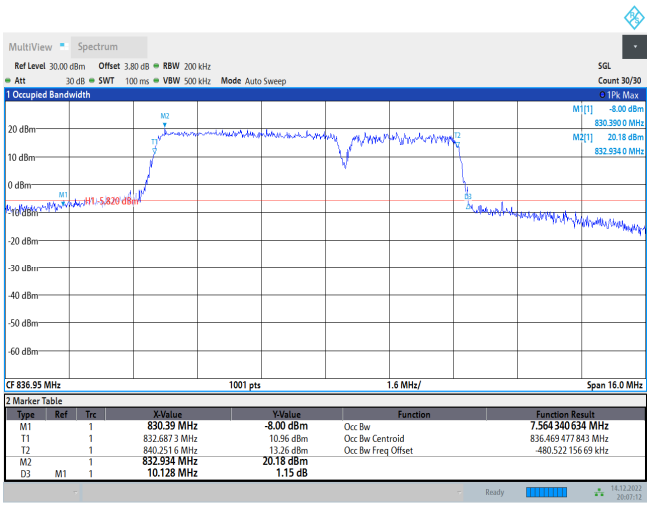

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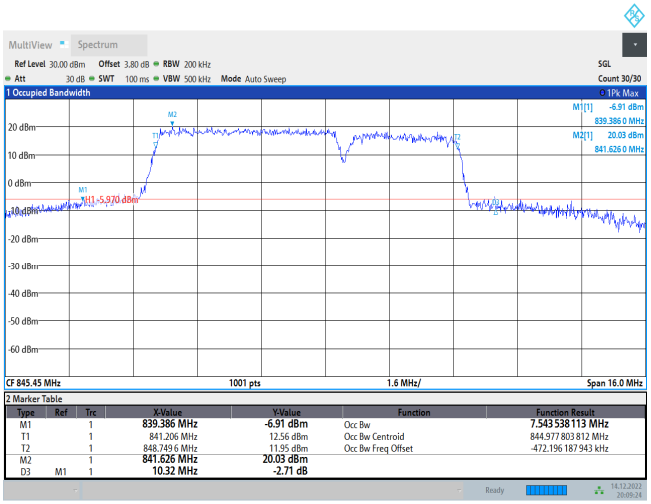

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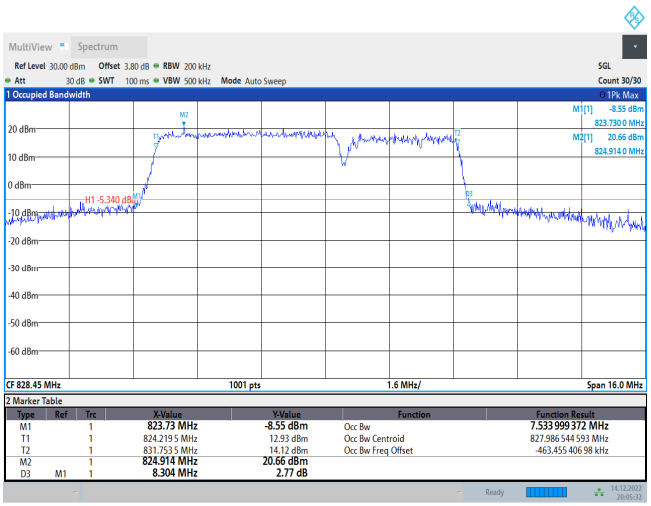

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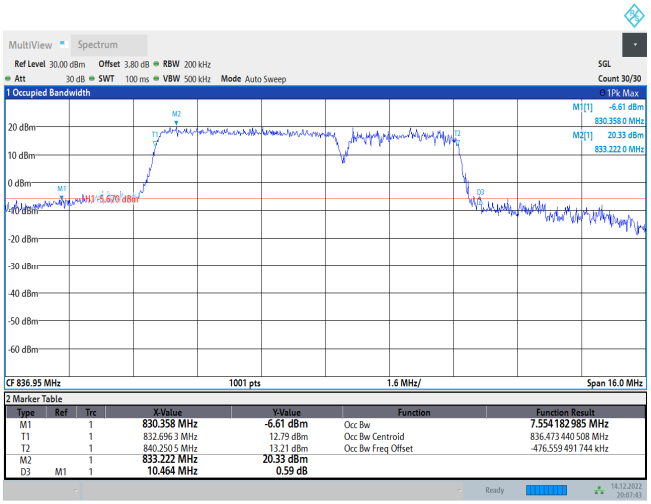

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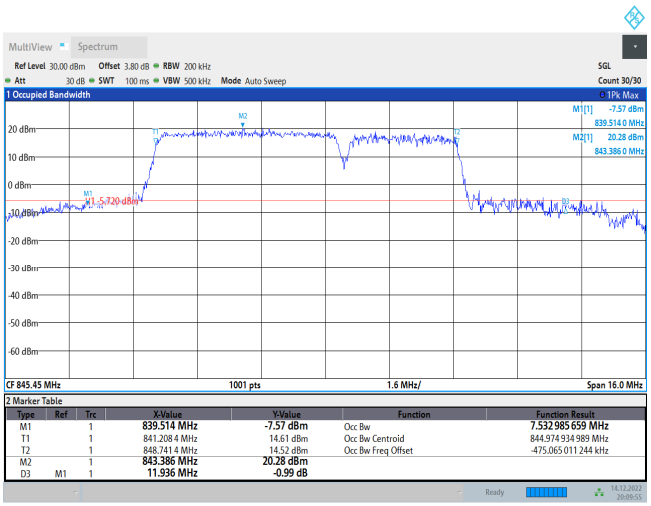

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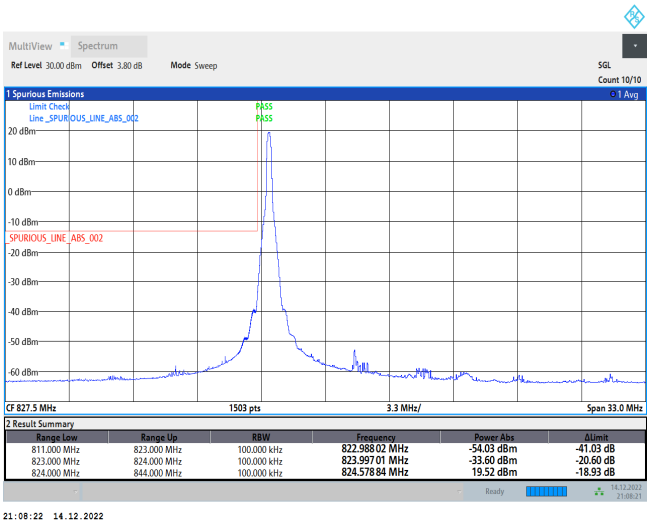
Band Edge

Test Graphs

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



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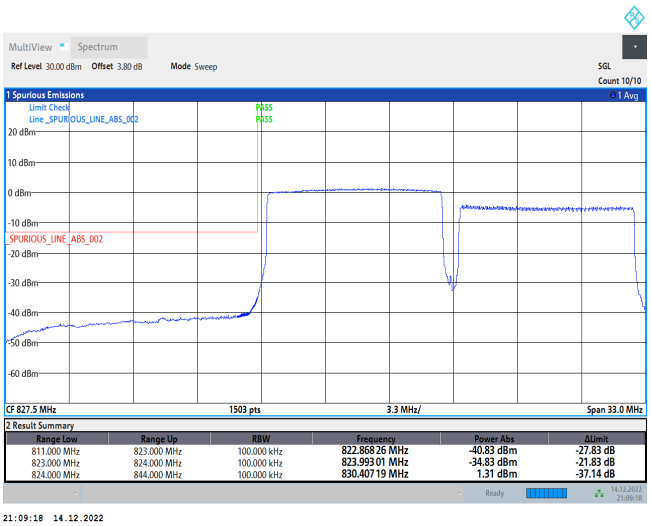

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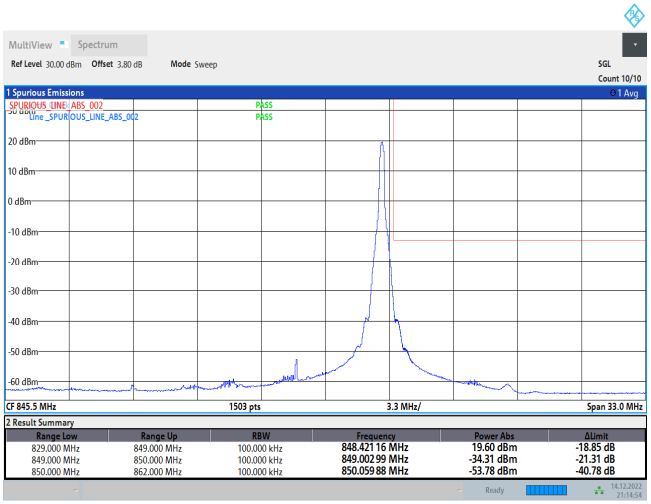

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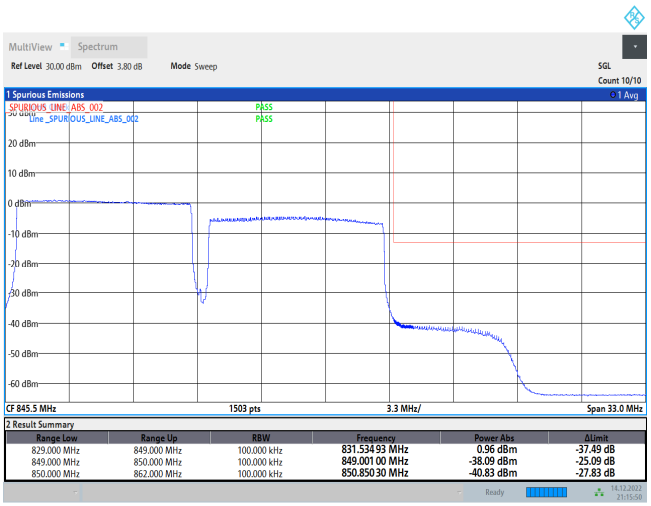

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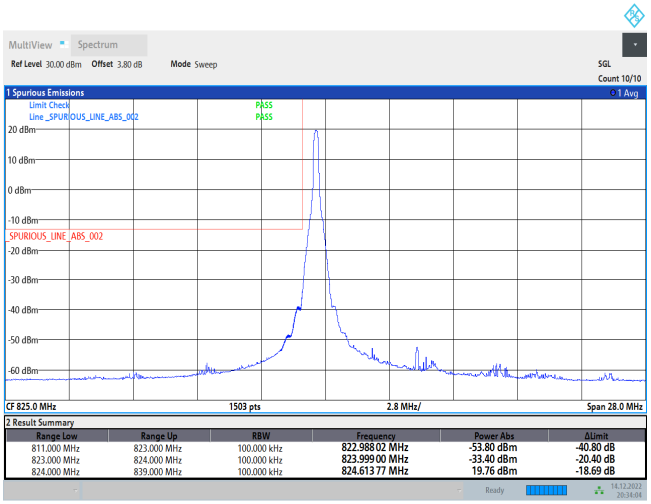

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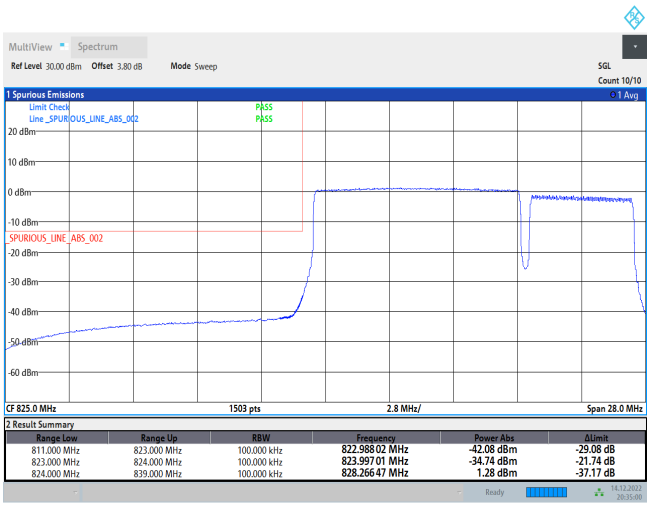

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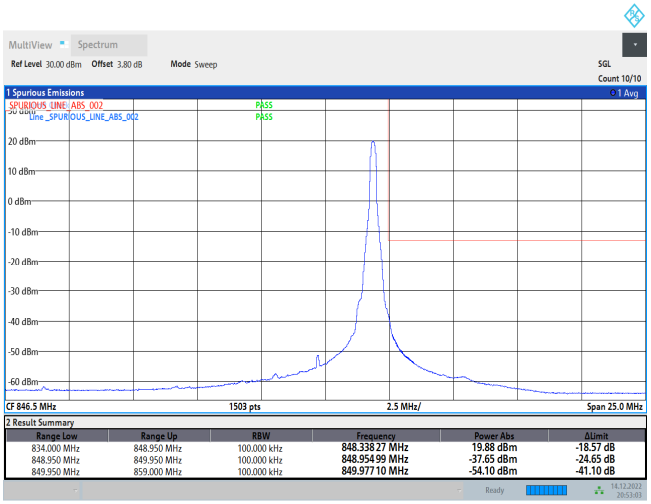
5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-0RB#0-1RB#24



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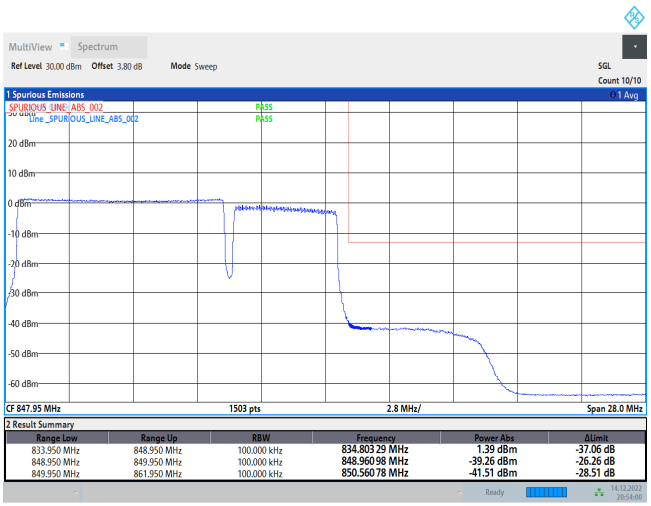

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

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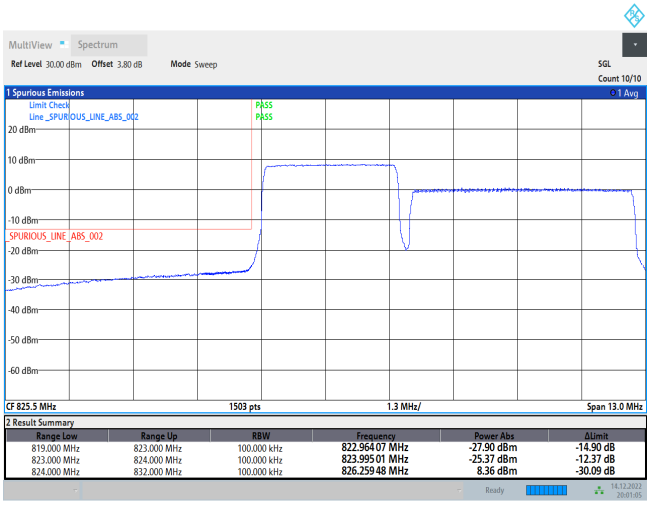
5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-15RB#0-25RB#0



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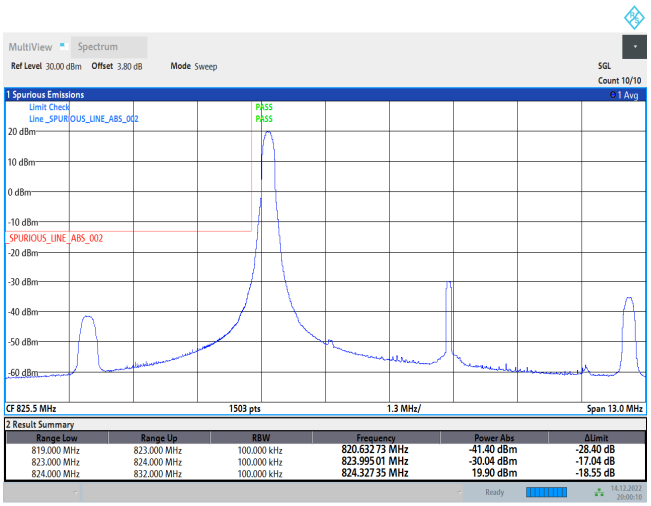

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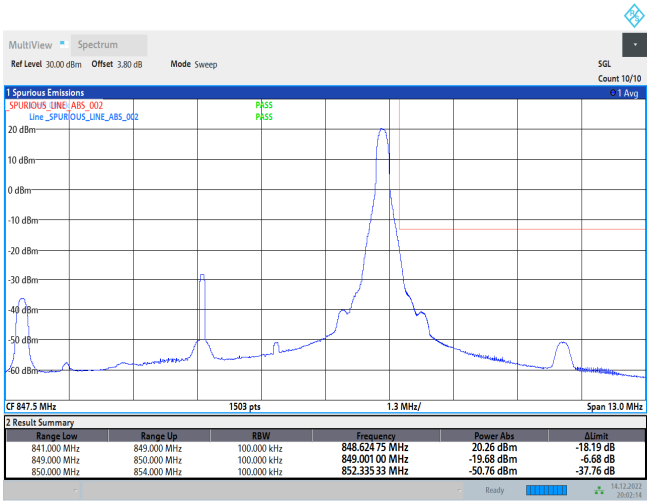
5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-0RB#0-1RB#24



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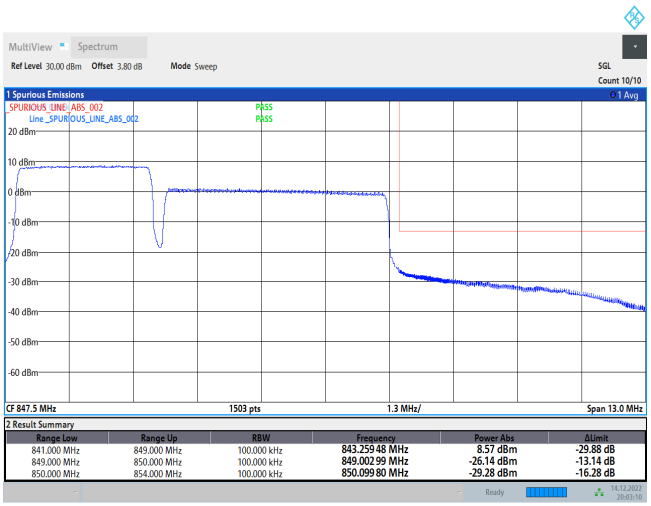

20:03:11 14.12.2022

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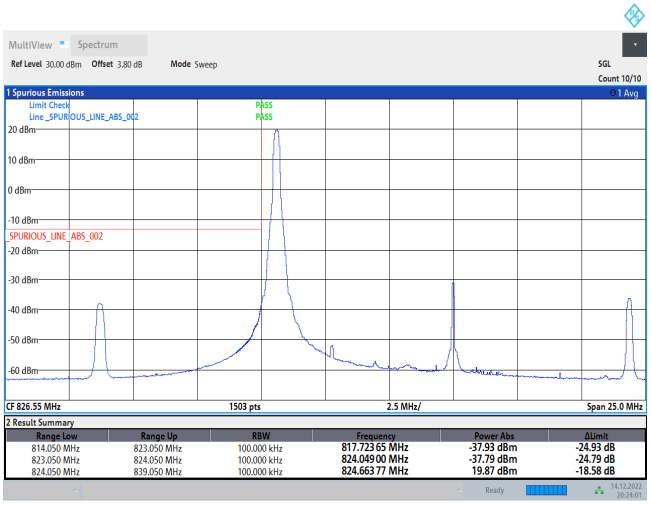
5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



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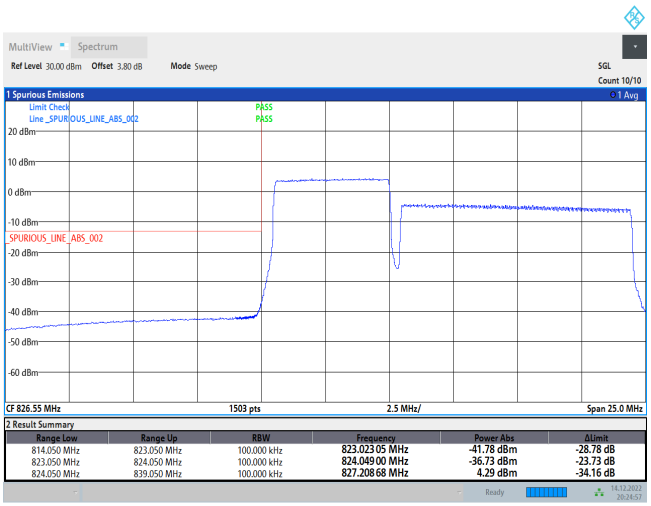

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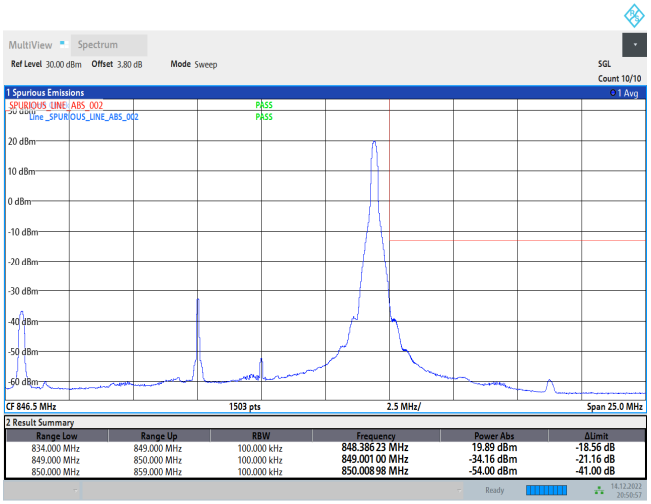
5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



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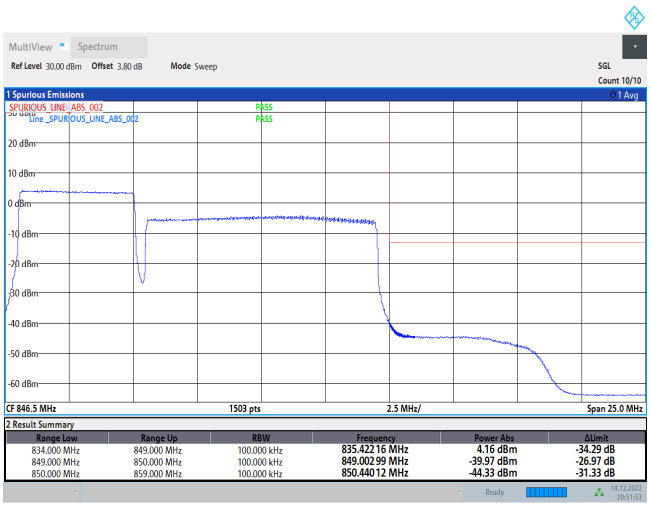

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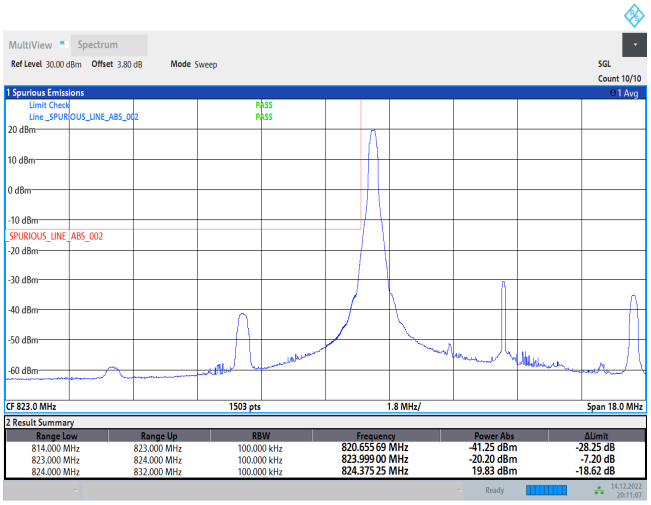
5-5-5MHz-3MHz-QPSK-QPSK-20425-20464-1RB#0-0RB#0



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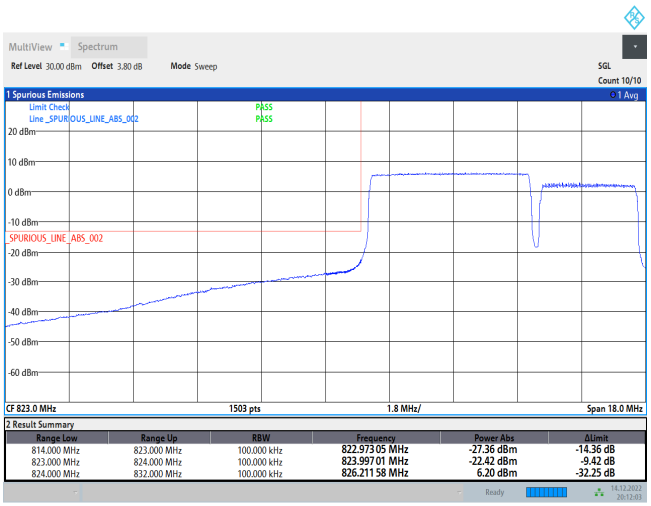

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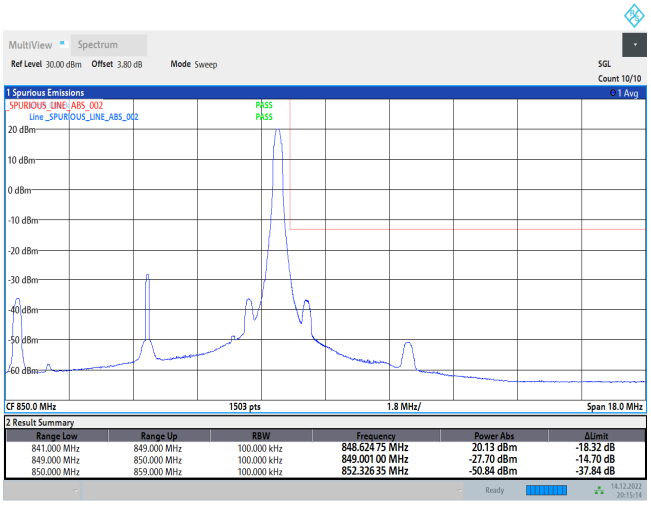
5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-0RB#0-1RB#14



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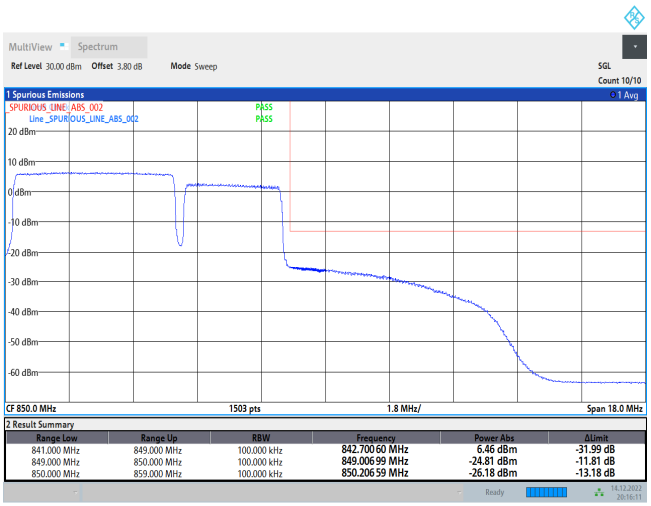

20:16:11 14.12.2022

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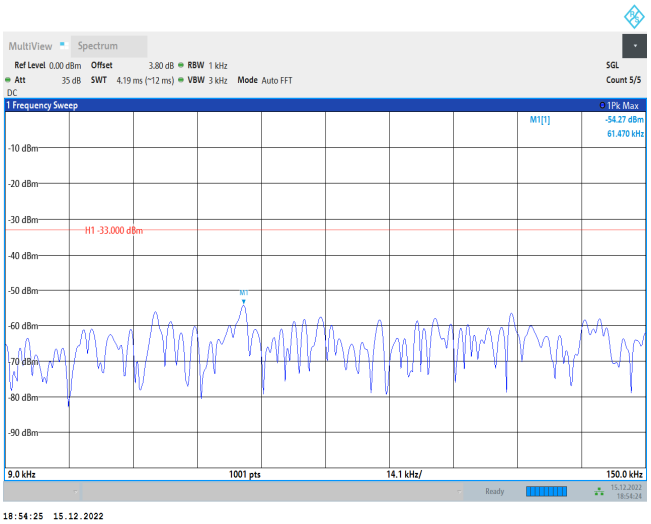
Conducted Spurious Emission

Test Graphs

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



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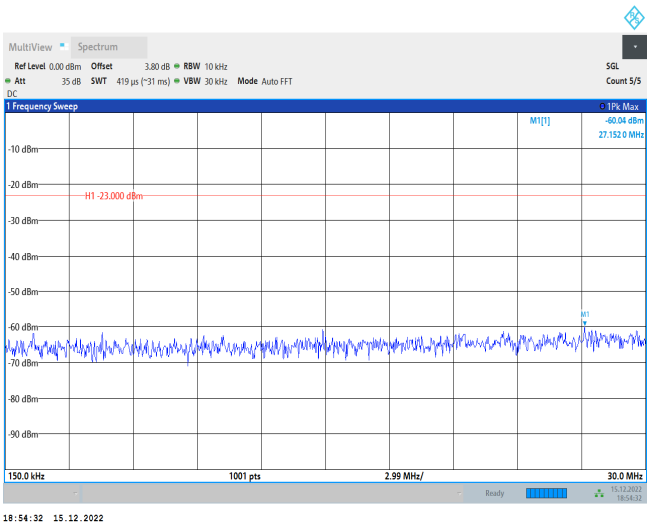

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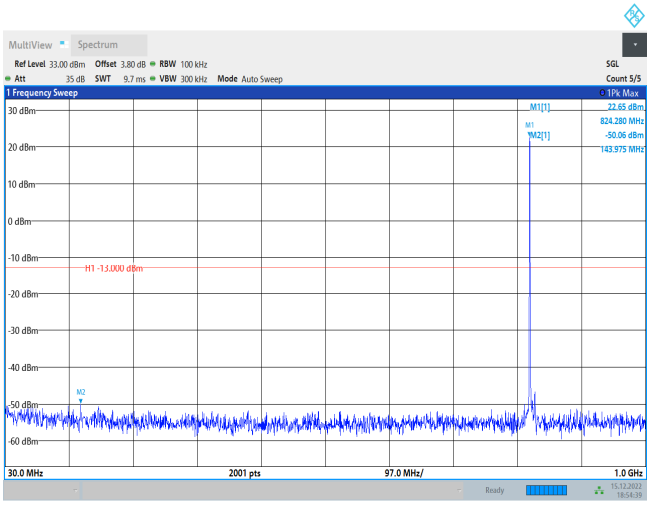

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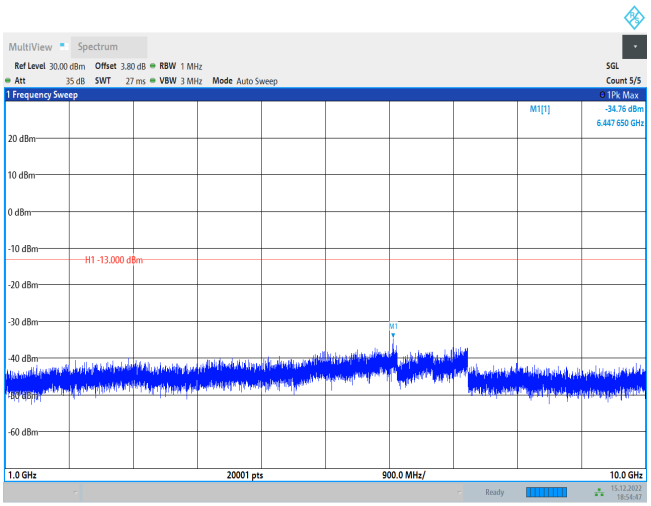

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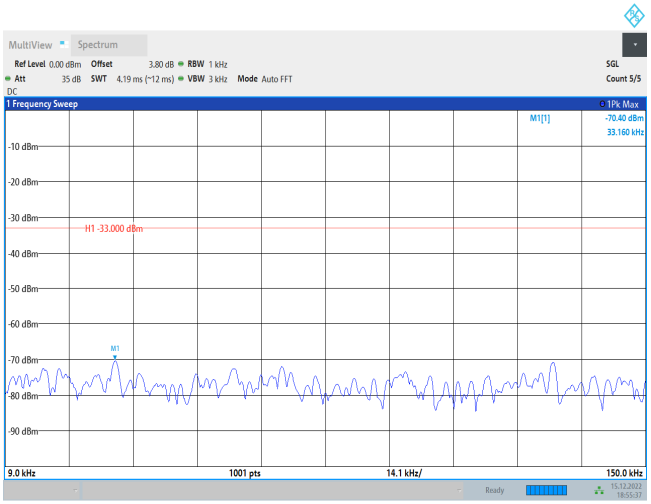
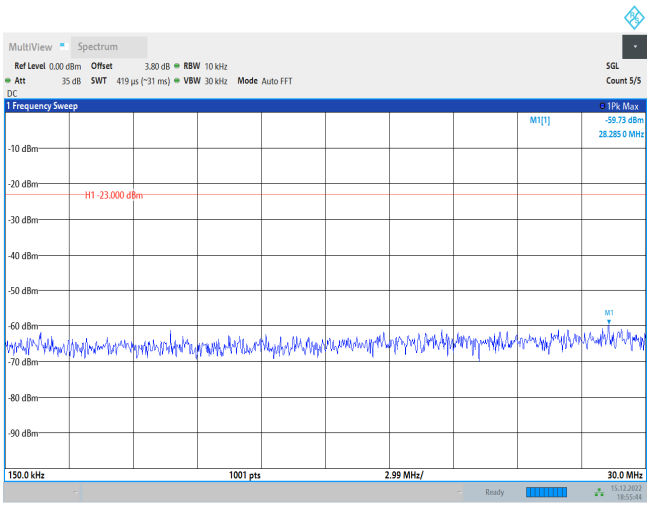
5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.009~0.15MHz



18:55:37 15.12.2022

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



18:55:44 15.12.2022

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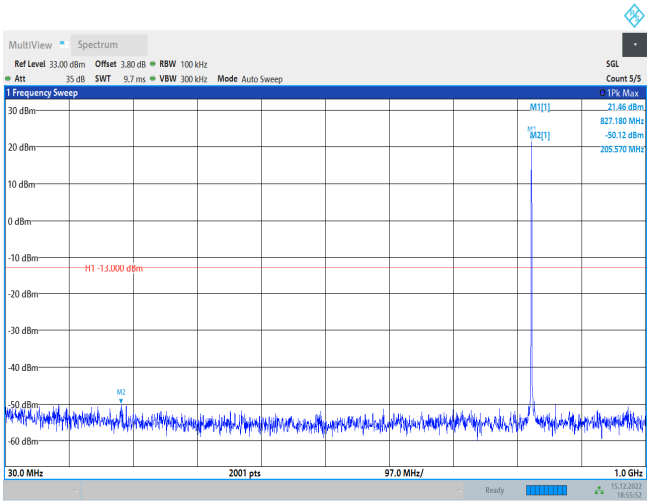
5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



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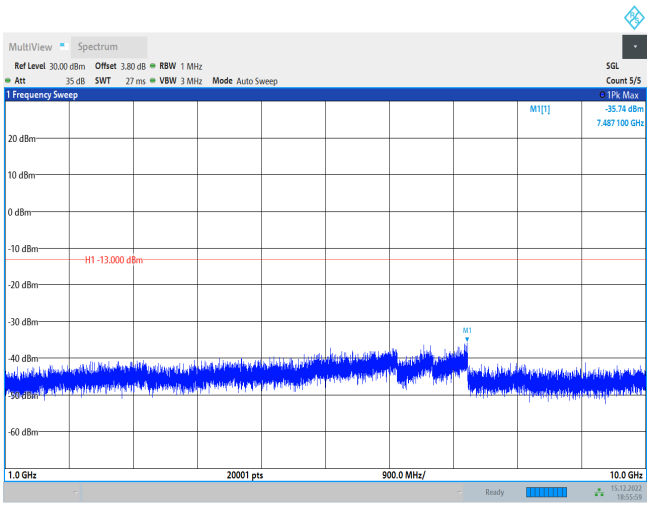

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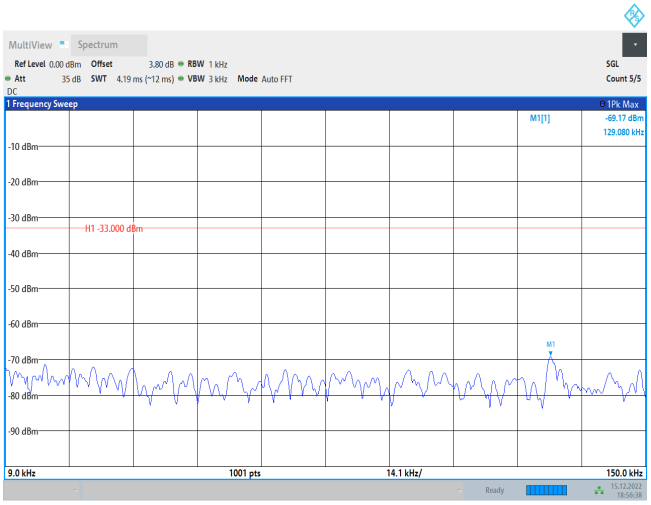
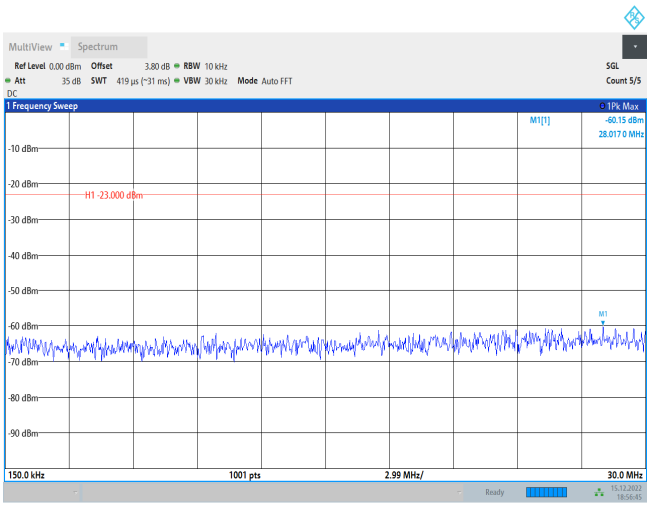
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



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



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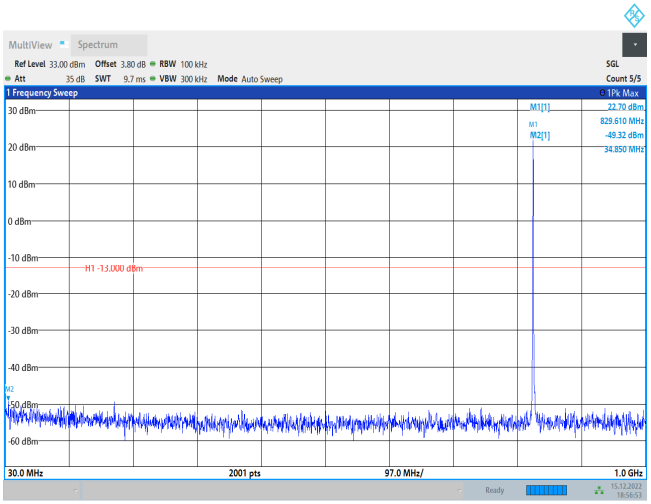
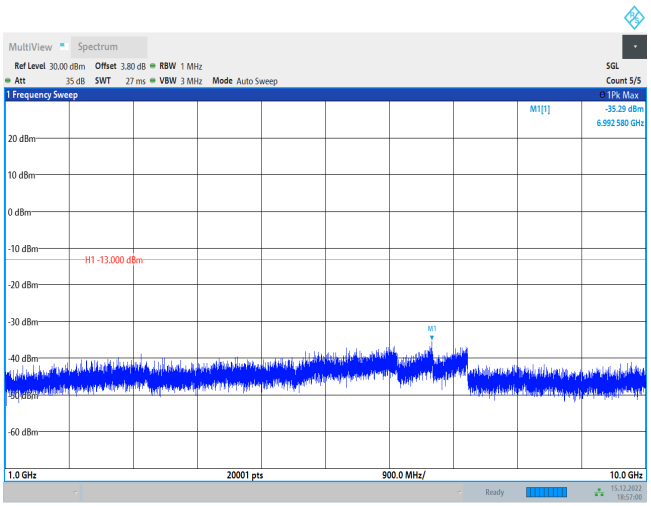


5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = UL CA 5B ANT2_ TM1
Test Channel = Low Channel

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	61.54	-48.38	25.58	-56.53	-13.00	43.53	211	318	Horizontal
2	2473.77	58.47	-46.96	27.85	-55.90	-13.00	42.90	264	331	Horizontal
3	3298.36	49.23	-46.11	29.48	-62.66	-13.00	49.66	321	24	Horizontal
4	4122.95	41.95	-45.34	30.80	-67.85	-13.00	54.85	189	346	Horizontal
5	4947.54	40.75	-45.08	32.48	-67.12	-13.00	54.12	206	185	Horizontal
6	5772.1	39.09	-43.52	33.47	-66.22	-13.00	53.22	132	0	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	1649	61.36	-48.38	25.58	-56.71	-13.00	43.71	236	115	Vertical
2	2473.77	61.26	-46.96	27.85	-53.11	-13.00	40.11	119	56	Vertical
3	3298.36	50.45	-46.11	29.48	-61.44	-13.00	48.44	258	231	Vertical
4	4122.95	42.84	-45.34	30.80	-66.96	-13.00	53.96	336	318	Vertical
5	4947.54	41.59	-45.08	32.48	-66.28	-13.00	53.28	284	360	Vertical
6	5772.1	39.80	-43.52	33.47	-65.51	-13.00	52.51	179	318	Vertical

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Test Band = UL CA 5B ANT2_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.36	61.11	-48.37	25.57	-56.94	-13.00	43.94	245	357	Horizontal
2	2481.57	57.58	-46.89	27.86	-56.71	-13.00	43.71	169	34	Horizontal
3	3308.76	46.56	-46.13	29.48	-65.35	-13.00	52.35	264	332	Horizontal
4	4135.95	42.39	-45.30	30.82	-67.35	-13.00	54.35	136	332	Horizontal
5	4963.14	41.38	-45.06	32.51	-66.43	-13.00	53.43	321	0	Horizontal
6	5790.33	39.80	-43.51	33.53	-65.45	-13.00	52.45	144	34	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	1654.36	59.95	-48.37	25.57	-58.10	-13.00	45.10	215	249	Vertical
2	2481.57	58.05	-46.89	27.86	-56.24	-13.00	43.24	236	57	Vertical
3	3308.76	49.35	-46.13	29.48	-62.56	-13.00	49.56	288	310	Vertical
4	4135.95	42.21	-45.30	30.82	-67.53	-13.00	54.53	341	325	Vertical
5	4963.14	41.11	-45.06	32.51	-66.70	-13.00	53.70	168	175	Vertical
6	5790.33	41.15	-43.51	33.53	-64.10	-13.00	51.10	132	349	Vertical

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Test Band = UL CA 5B ANT2_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1659.5	62.41	-48.35	25.57	-55.63	-13.00	42.63	253	315	Horizontal
2	2489	59.69	-46.83	27.88	-54.53	-13.00	41.53	174	315	Horizontal
3	3318.5	52.06	-46.14	29.47	-59.87	-13.00	46.87	288	331	Horizontal
4	4373.45	41.58	-44.83	31.20	-67.32	-13.00	54.32	314	211	Horizontal
5	5248.14	40.13	-44.06	32.60	-66.59	-13.00	53.59	265	0	Horizontal
6	6122.83	40.37	-42.92	34.45	-63.36	-13.00	50.36	213	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	1659.5	61.41	-48.35	25.57	-56.63	-13.00	43.63	214	248	Vertical
2	2409	64.16	-47.51	27.72	-50.90	-13.00	37.90	188	353	Vertical
3	3319	51.37	-46.14	29.47	-60.56	-13.00	47.56	256	58	Vertical
4	4373.45	40.72	-44.83	31.20	-68.18	-13.00	55.18	312	306	Vertical
5	5248.14	40.07	-44.06	32.60	-66.65	-13.00	53.65	274	291	Vertical
6	6122.83	39.76	-42.92	34.45	-63.97	-13.00	50.97	125	3	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 (℃)	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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	75	37.70	0.014595	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	60	37.30	0.014440	±2.5	PASS
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
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-40	18.90	0.022727	±2.5	PASS

---End of Attachment---

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