Appendix B

E-UTRA Band 5

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.12	17.37	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.16	17.41	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.02	17.27	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.90	17.15	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.84	17.09	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.88	17.13	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.97	16.22	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.04	17.29	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.85	17.1	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.05	17.3	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.85	17.1	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.87	17.12	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.85	17.1	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.83	16.08	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.83	17.08	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.91	17.16	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.96	17.21	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.74	16.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.65	16.9	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.63	16.88	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.68	15.93	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.00	15.25	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.89	15.14	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.01	15.26	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	20.89	15.14	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#1	20.93	15.18	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	20.99	15.24	38.45	PASS

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Band5	1.4MHz	64QAM	20407	6RB#0	20.03	14.28	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.82	15.07	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.11	15.36	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.76	15.01	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	20.95	15.2	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#1	20.70	14.95	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	20.72	14.97	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.83	14.08	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.99	15.24	38.45	FAIL
Band5	1.4MHz	64QAM	20643	1RB#0	21.06	15.31	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.77	15.02	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	21.00	15.25	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#1	20.73	14.98	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	20.63	14.88	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.63	13.88	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.10	16.35	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.03	16.28	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.09	16.34	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.90	16.15	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.93	16.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.99	16.24	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.12	15.37	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.95	16.2	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.20	16.45	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.78	16.03	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.96	16.21	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.82	16.07	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.86	16.11	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.93	15.18	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.14	16.39	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.09	16.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.89	16.14	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.04	16.29	38.45	PASS

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Band5	1.4MHz	16QAM	20643	3RB#1	21.86	16.11	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.73	15.98	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.70	14.95	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.81	17.06	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	**22.86**	17.11	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.84	17.09	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.90	16.15	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.91	16.16	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.00	16.25	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.89	16.14	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.75	17	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.67	16.92	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.79	17.04	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.87	16.12	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.87	16.12	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.89	16.14	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.83	16.08	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.68	16.93	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.83	17.08	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.74	16.99	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.77	16.02	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.76	16.01	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.67	15.92	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.70	15.95	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.79	15.04	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.82	15.07	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.02	15.27	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	19.90	14.15	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#0	19.90	14.15	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	19.85	14.1	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.82	14.07	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.09	15.34	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	20.77	15.02	38.45	PASS

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Band5	3MHz	64QAM	20525	1RB#8	20.94	15.19	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	19.94	14.19	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	19.90	14.15	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	19.85	14.1	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.74	13.99	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.27	15.52	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.91	15.16	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	20.76	15.01	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	19.87	14.12	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	19.68	13.93	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	19.61	13.86	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.63	13.88	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.94	16.19	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.95	16.2	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.17	16.42	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.98	15.23	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.90	15.15	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.00	15.25	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.95	15.2	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.18	16.43	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.91	16.16	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.05	16.3	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.94	15.19	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.97	15.22	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.98	15.23	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.79	15.04	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.27	16.52	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.93	16.18	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.80	16.05	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.92	15.17	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.75	15	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.72	14.97	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.74	14.99	38.45	PASS

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Band5	5MHz	QPSK	20425	1RB#24	22.80	17.05	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.78	17.03	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.81	17.06	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.95	16.2	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.98	16.23	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.93	16.18	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.00	16.25	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.61	16.86	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.59	16.84	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	**22.83**	17.08	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.90	16.15	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.89	16.14	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.95	16.2	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.92	16.17	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.74	16.99	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.77	17.02	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.70	16.95	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.86	16.11	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.80	16.05	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.76	16.01	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.73	15.98	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.04	15.29	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	20.92	15.17	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.89	15.14	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	19.78	14.03	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	19.99	14.24	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	19.87	14.12	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.98	14.23	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.01	15.26	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	20.95	15.2	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.15	15.4	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#13	19.93	14.18	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	19.70	13.95	38.45	PASS

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Band5	5MHz	64QAM	20525	12RB#6	19.81	14.06	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.90	14.15	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.87	15.12	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.64	14.89	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.90	15.15	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	19.77	14.02	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	19.86	14.11	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	19.77	14.02	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.73	13.98	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.14	16.39	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.93	16.18	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.94	16.19	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.89	15.14	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.07	15.32	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.90	15.15	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.01	15.26	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.07	16.32	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.98	16.23	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.16	16.41	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.94	15.19	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.85	15.1	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.96	15.21	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.90	15.15	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.02	16.27	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.73	15.98	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.03	16.28	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.87	15.12	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.89	15.14	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.78	15.03	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.79	15.04	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.04	17.29	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.86	17.11	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.18	17.43	38.45	PASS

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Band5	10MHz	QPSK	20450	25RB#12	22.07	16.32	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.90	16.15	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.14	16.39	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.01	16.26	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.04	17.29	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.79	17.04	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	**23.19**	17.44	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.95	16.2	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.90	16.15	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.02	16.27	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.87	16.12	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.95	17.2	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.89	17.14	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.11	17.36	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.02	16.27	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.91	16.16	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.95	16.2	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.03	16.28	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.90	15.15	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.11	15.36	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.77	15.02	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	19.84	14.09	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	19.90	14.15	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	20.08	14.33	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.97	14.22	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.90	15.15	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	20.96	15.21	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.03	15.28	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	20.00	14.25	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	19.75	14	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	19.98	14.23	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.79	14.04	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.23	15.48	38.45	PASS

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Band5	10MHz	64QAM	20600	1RB#0	21.16	15.41	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.14	15.39	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	19.89	14.14	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	19.84	14.09	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#12	19.82	14.07	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.84	14.09	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.93	16.18	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.13	16.38	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.90	16.15	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.97	15.22	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.92	15.17	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.17	15.42	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.02	15.27	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.05	16.3	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.98	16.23	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.07	16.32	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.01	15.26	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.88	15.13	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.04	15.29	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.85	15.1	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.23	16.48	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.28	16.53	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.20	16.45	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.98	15.23	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.97	15.22	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.83	15.08	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.91	15.16	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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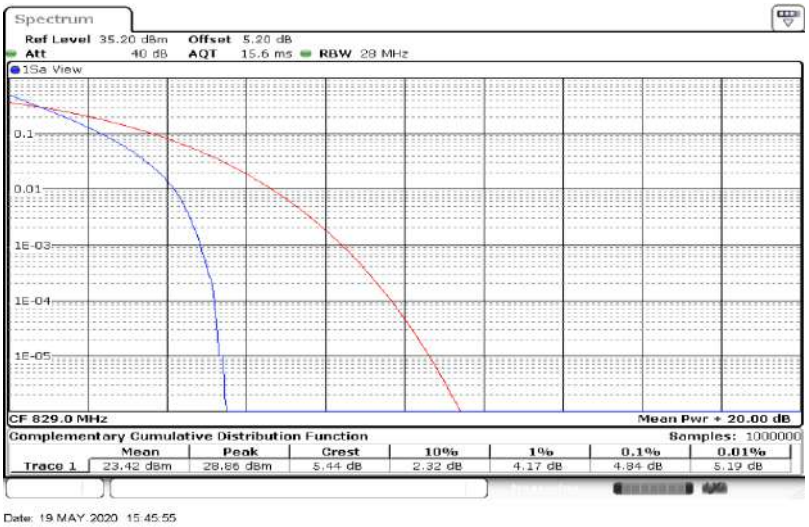
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.84	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.10	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.75	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.35	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.67	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.29	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.74	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.88	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.57	13	PASS

2.2. Test Plots

Band5-10MHz-QPSK-20450-50RB#0



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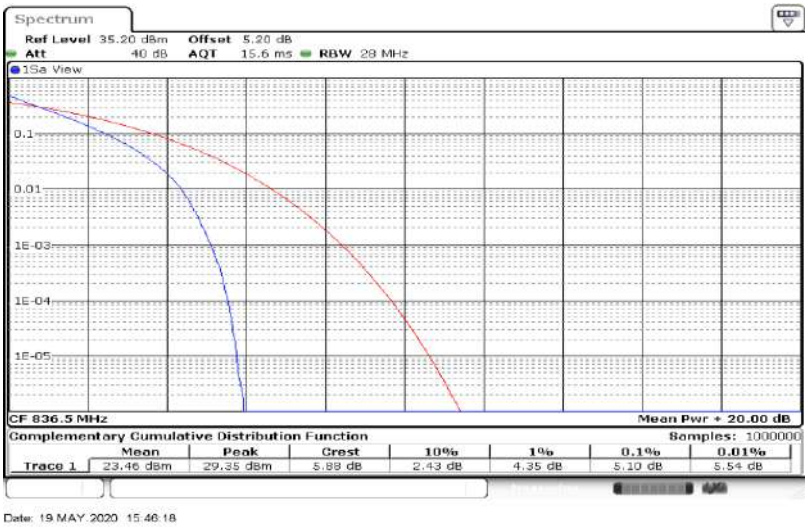
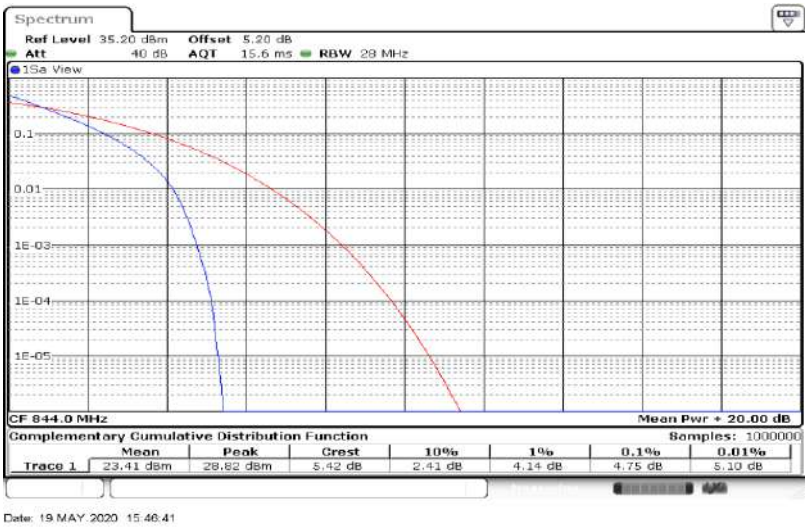


Band5-10MHz-QPSK-20600-50RB#0



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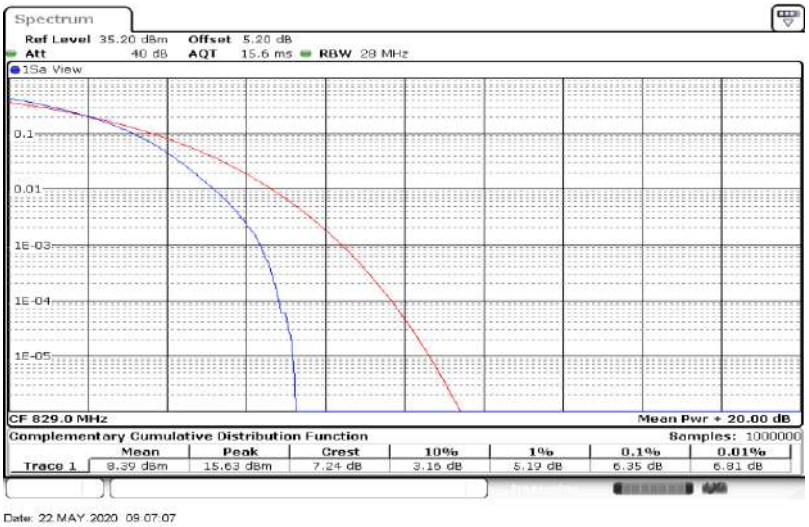
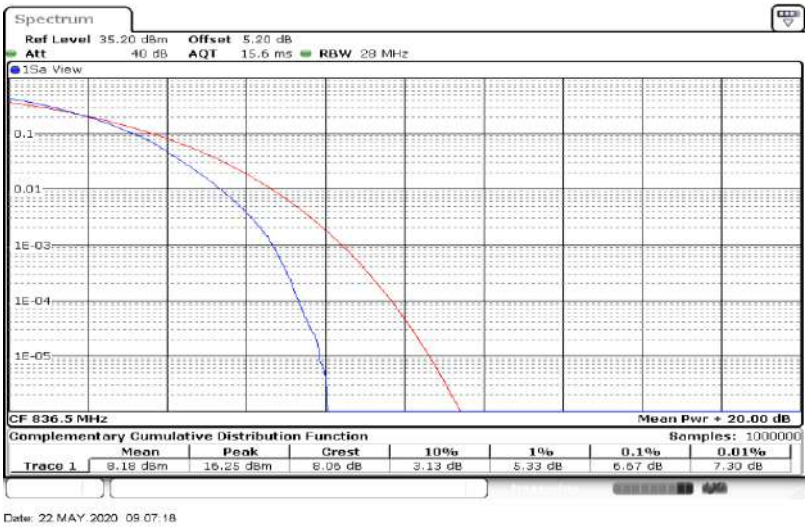


Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-64QAM-20600-50RB#0

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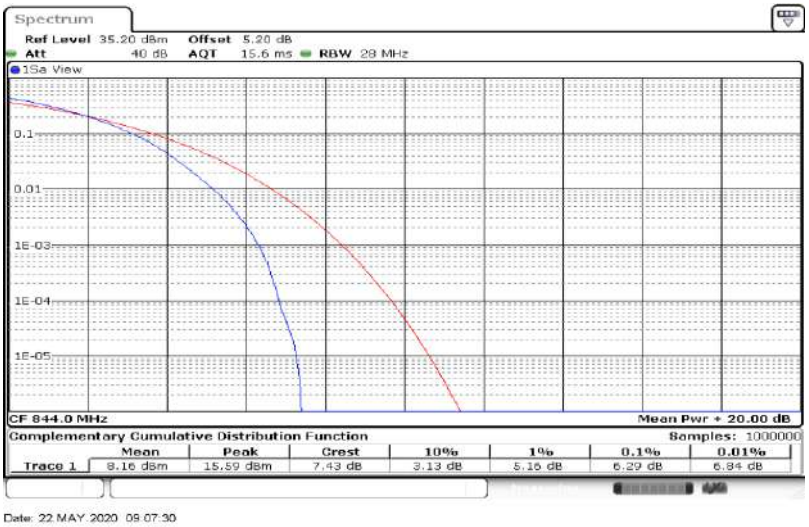
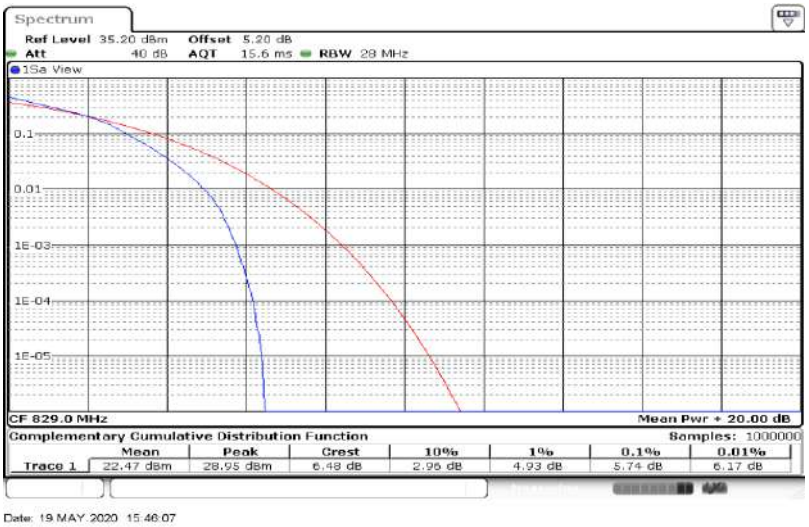


Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0

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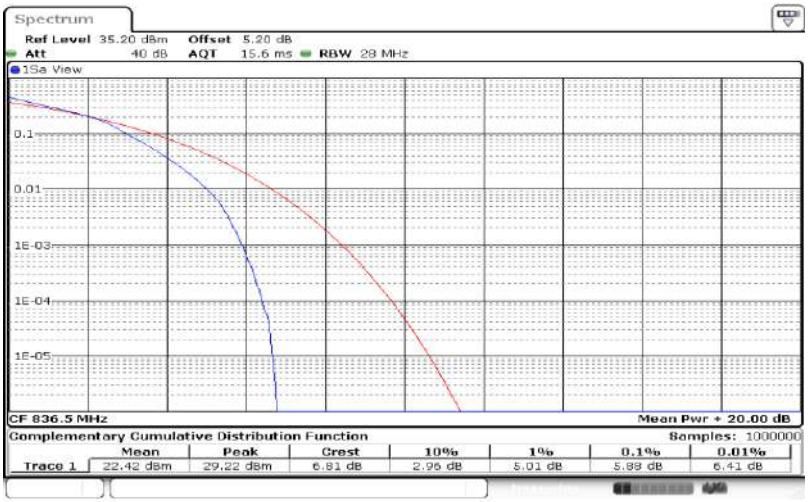

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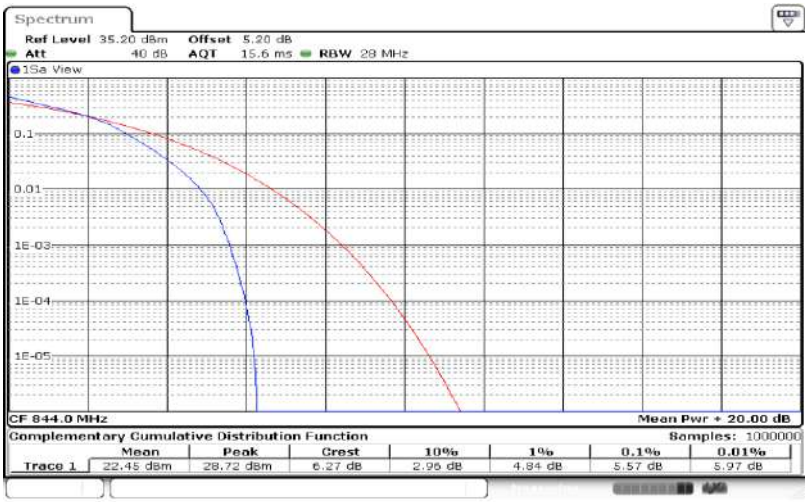
Band5-10MHz-16QAM-20600-50RB#0



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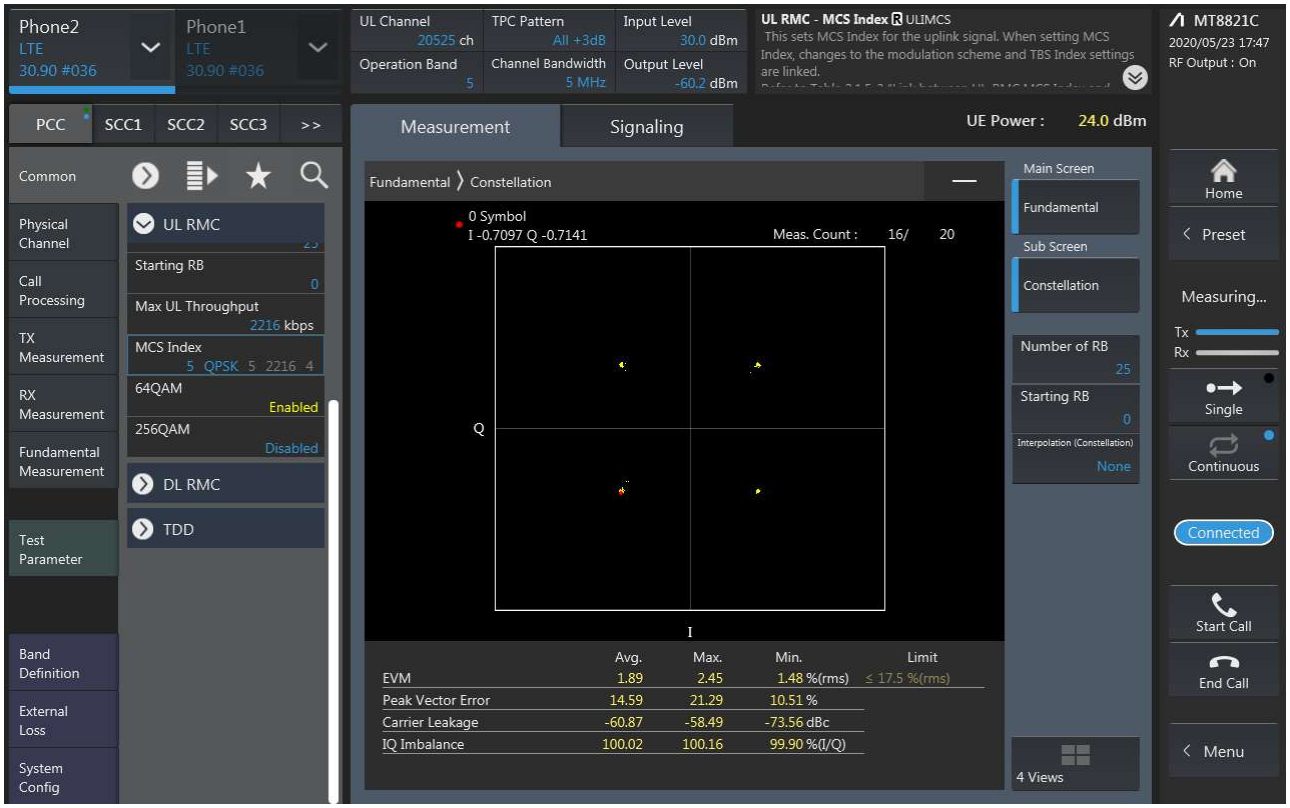
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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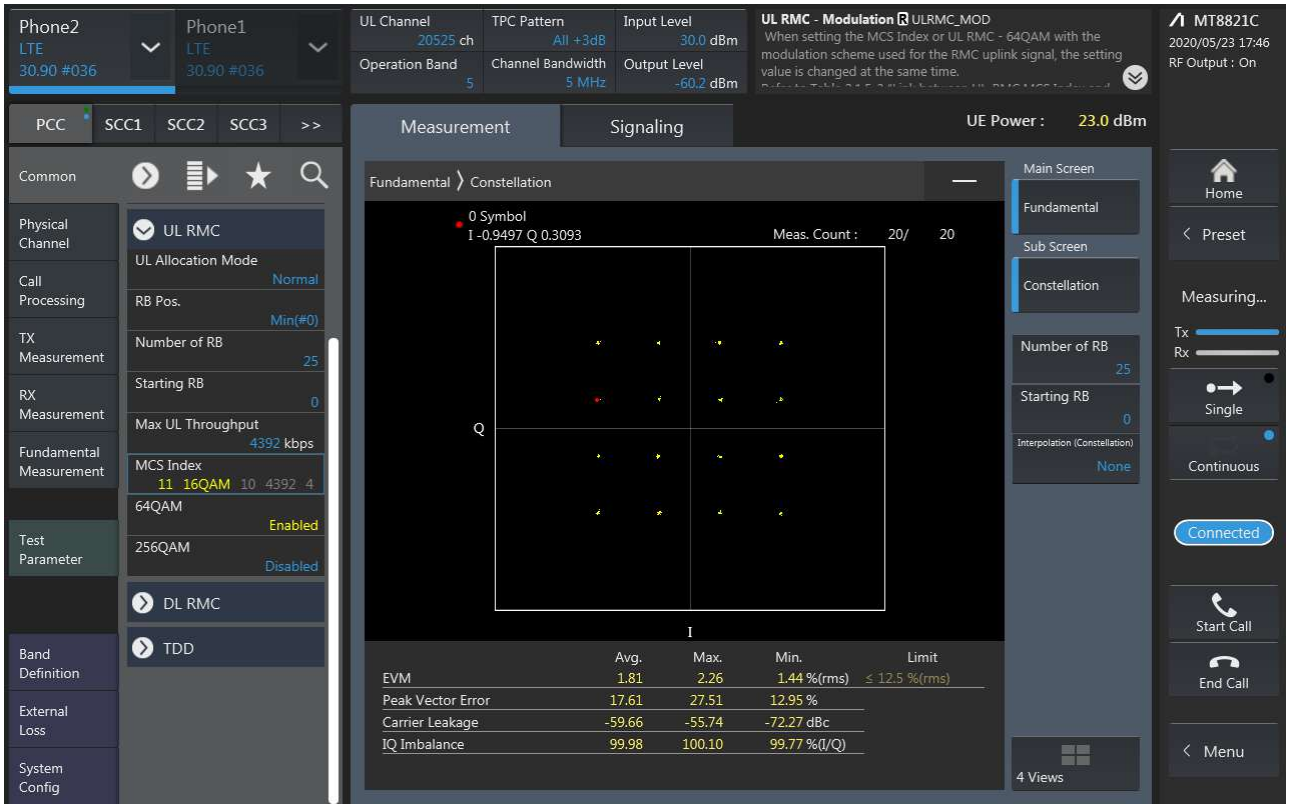
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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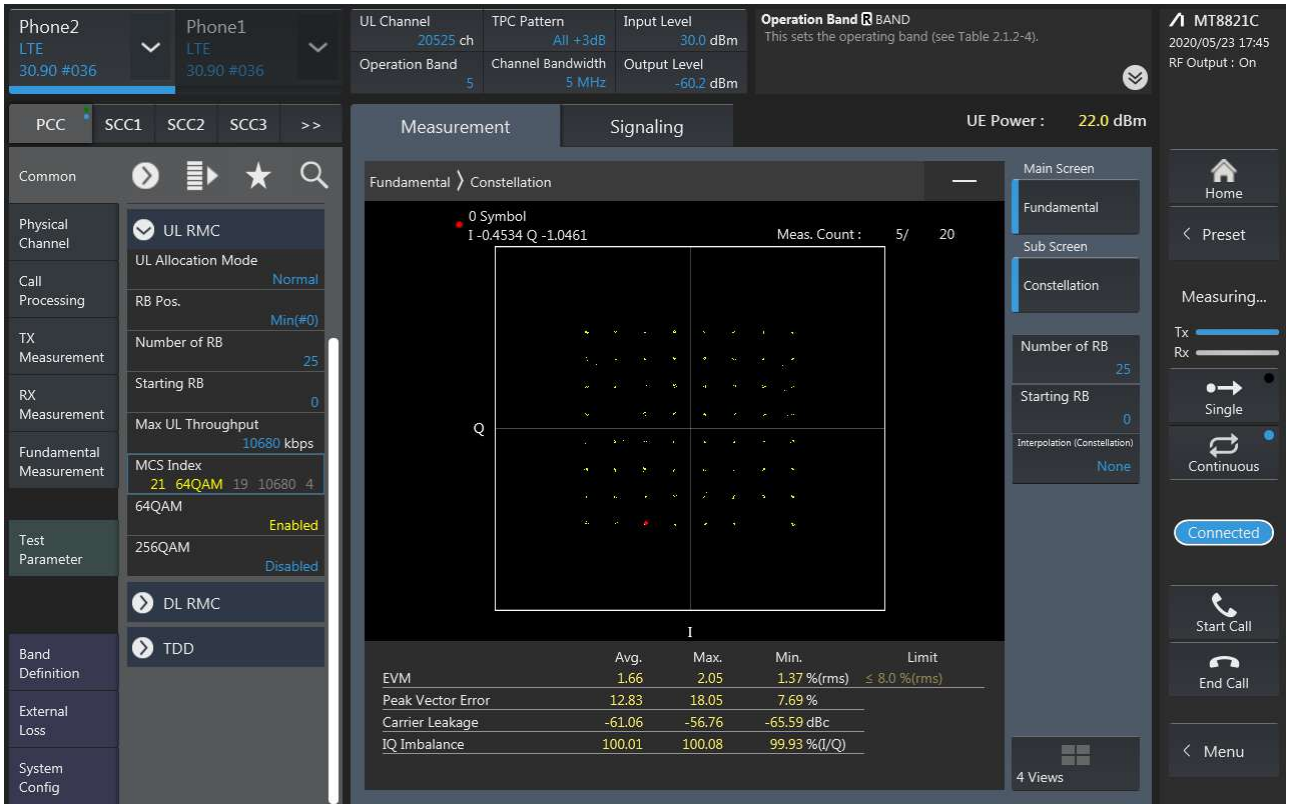
3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.296	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.299	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.278	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.284	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.994	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	2.976	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.691	2.982	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.970	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.970	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.976	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.976	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.950	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.910	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.930	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.476	4.890	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.466	4.910	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.466	4.900	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.960	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.960	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.950	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.951	9.740	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.700	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.911	9.640	PASS

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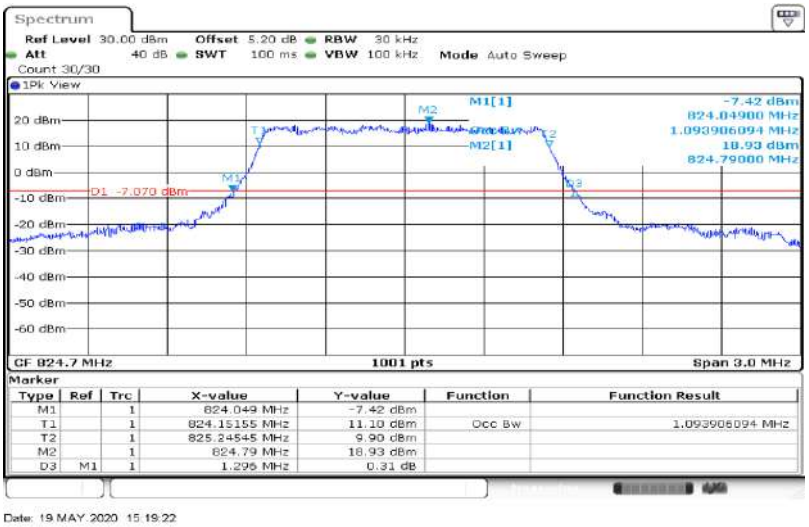
Band5	10MHz	64QAM	20525	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.911	9.640	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.800	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.800	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.700	PASS

4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094



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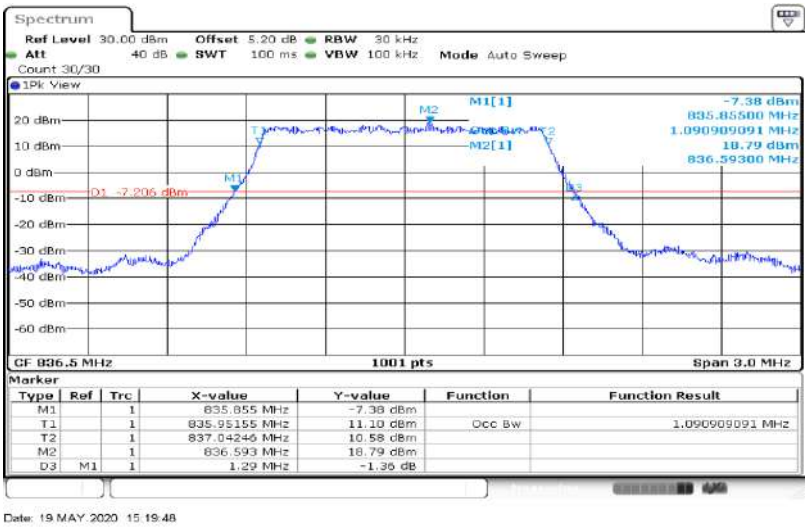

Band5-1.4MHz-QPSK-20643-6RB#0-1.091

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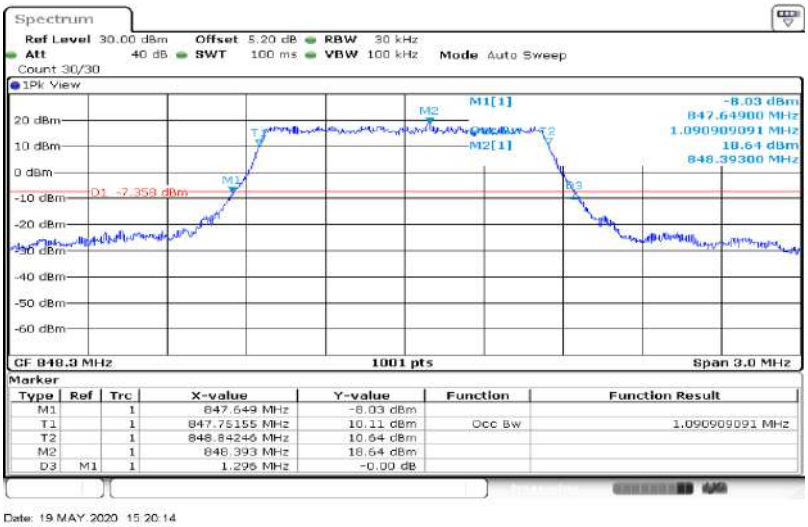

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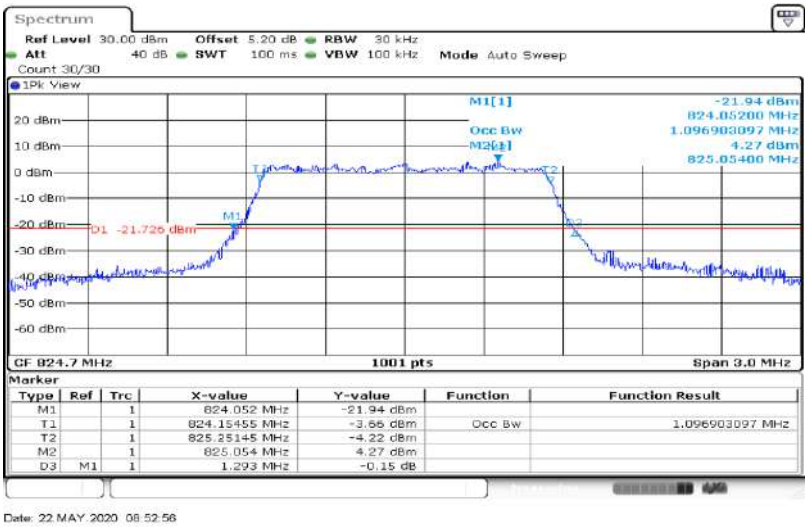

Band5-1.4MHz-64QAM-20525-6RB#0-1.097

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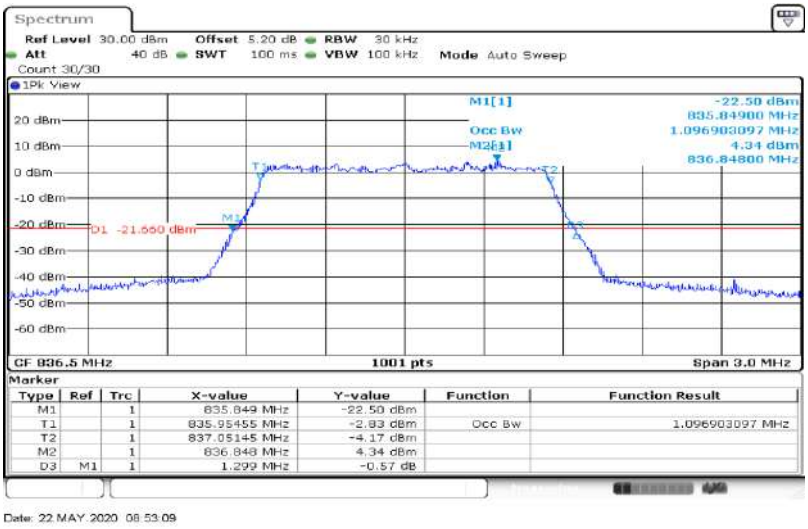

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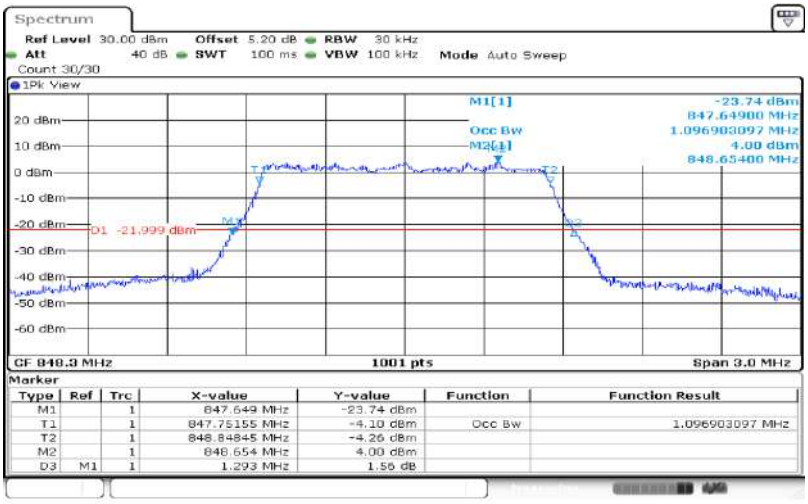

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Band5-1.4MHz-16QAM-20407-6RB#0-1.091

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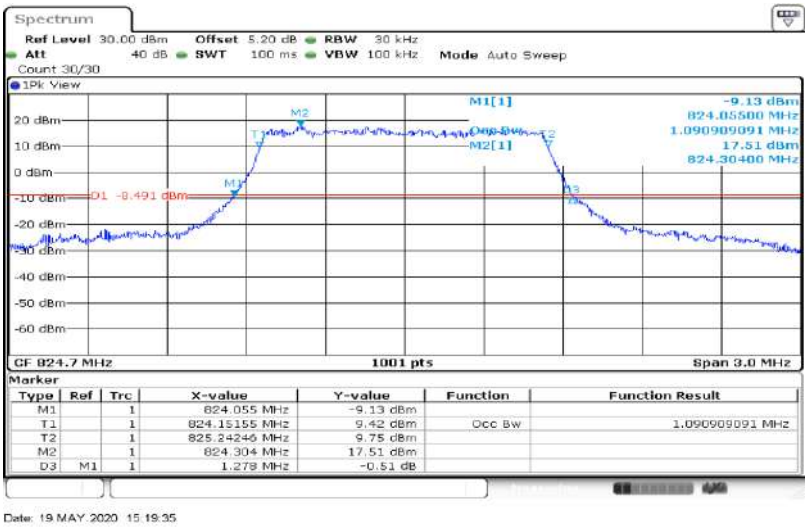

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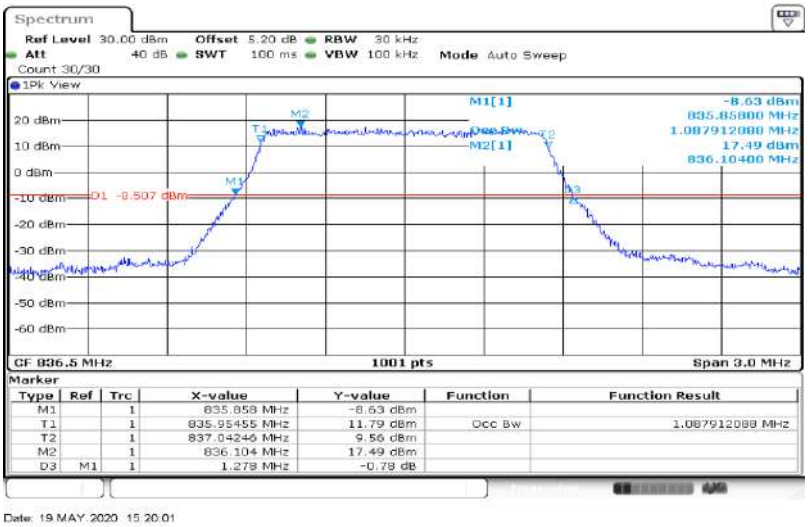

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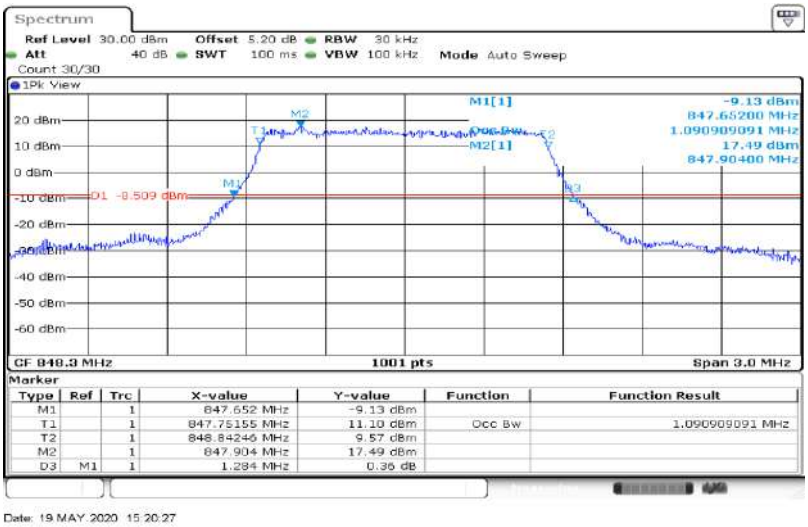

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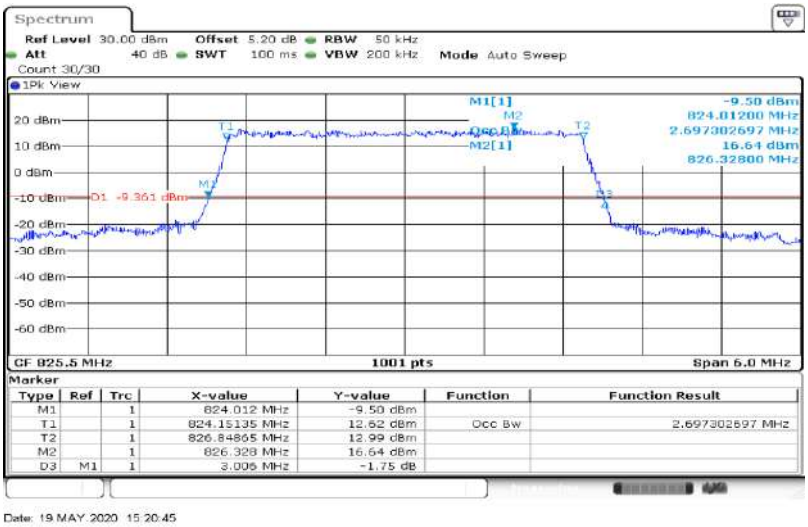

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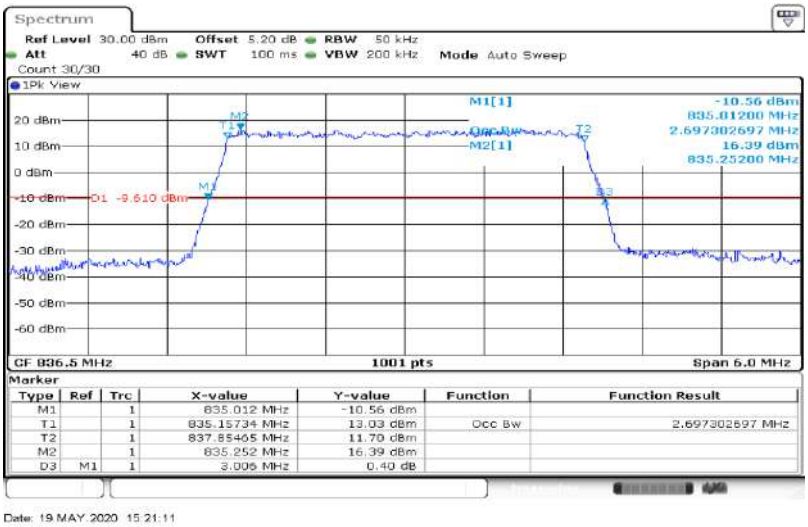

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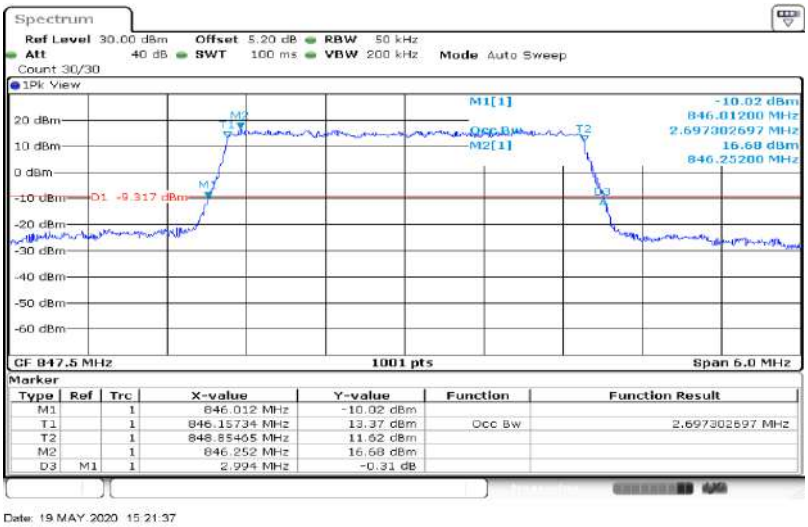

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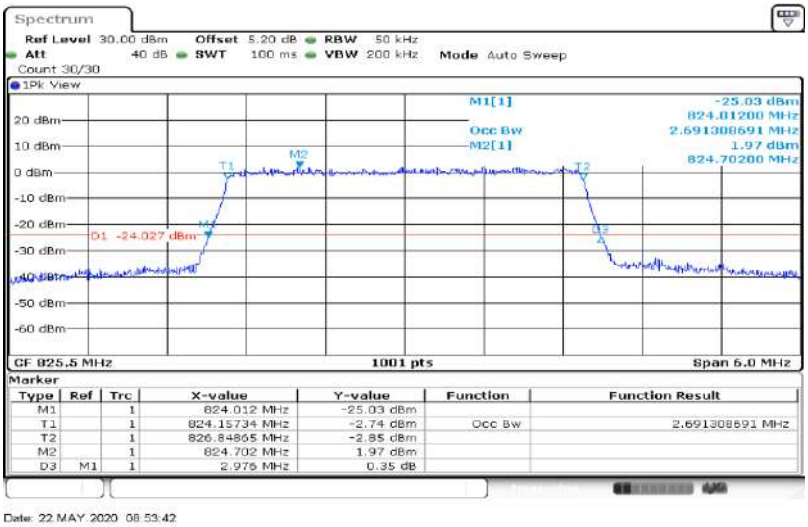

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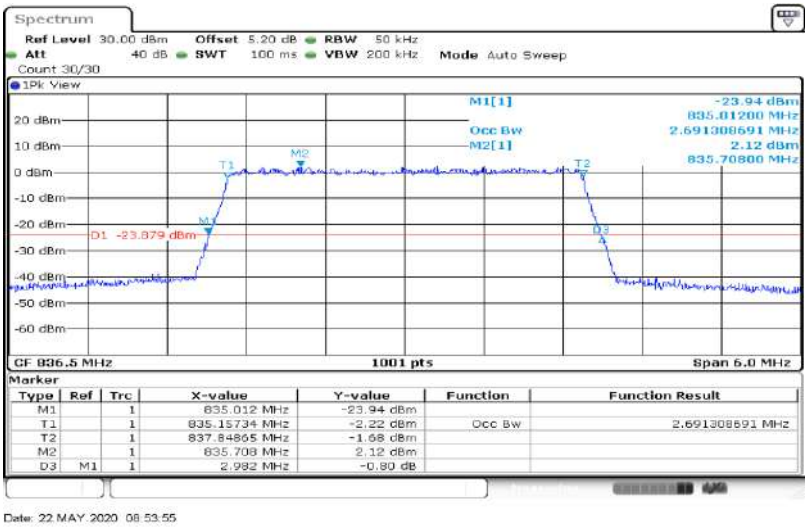

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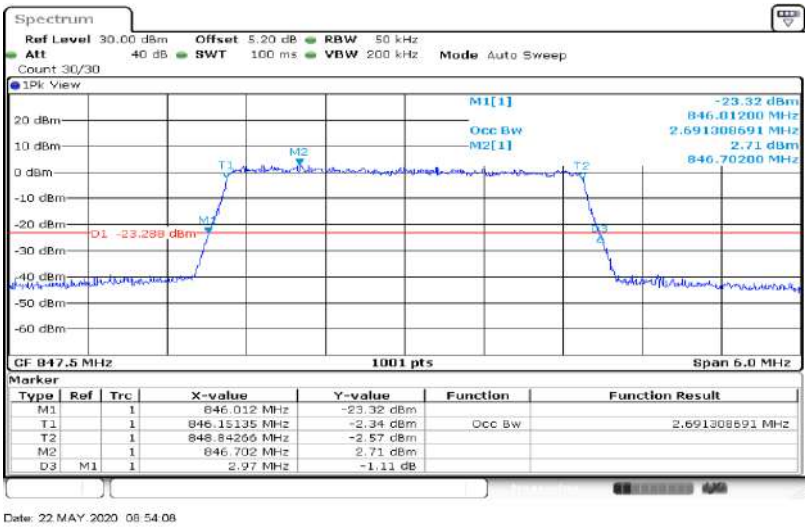
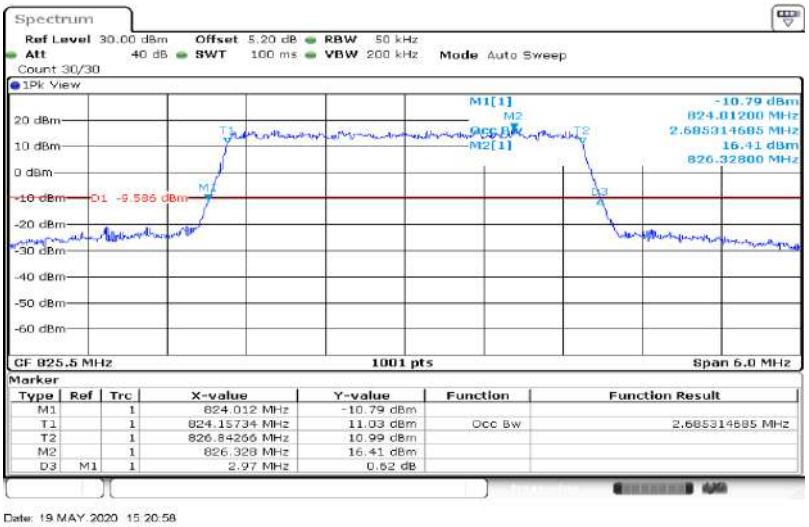


Band5-3MHz-16QAM-20415-15RB#0-2.685



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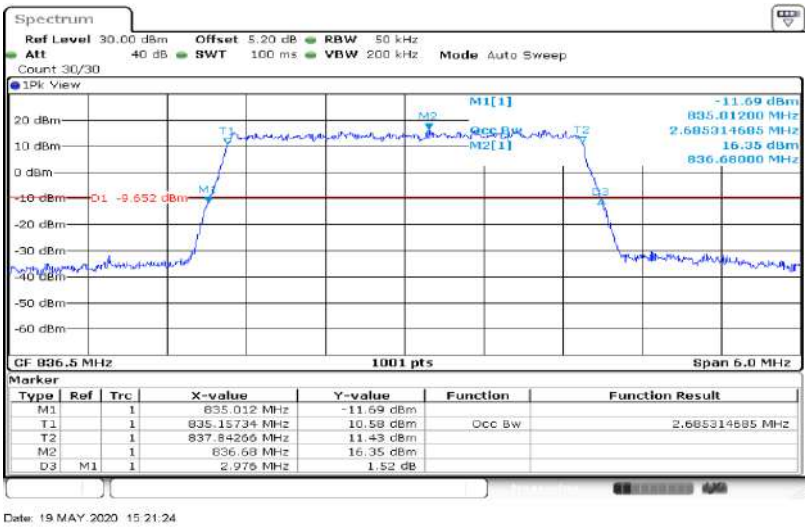

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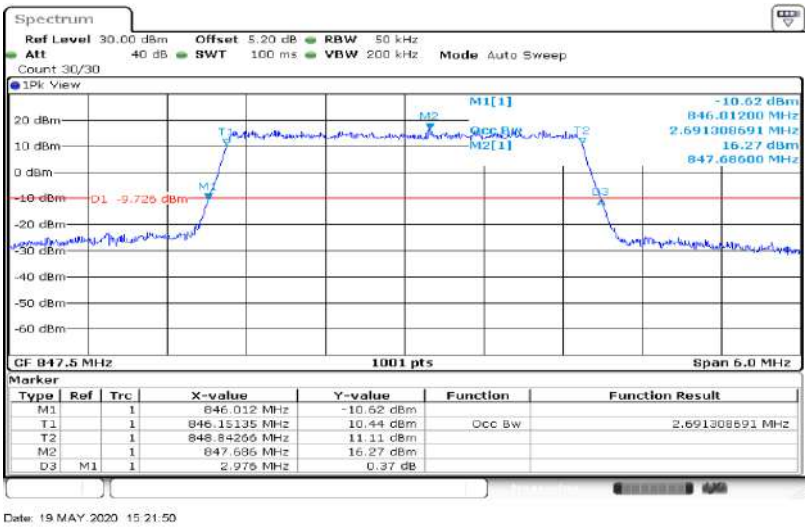

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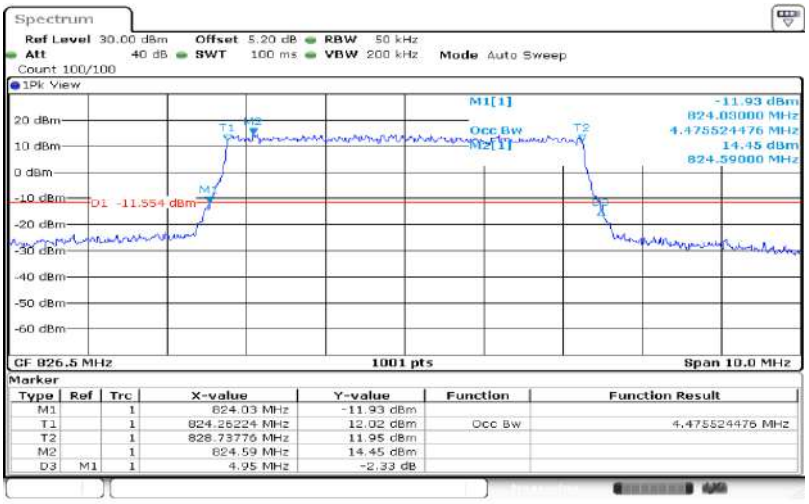

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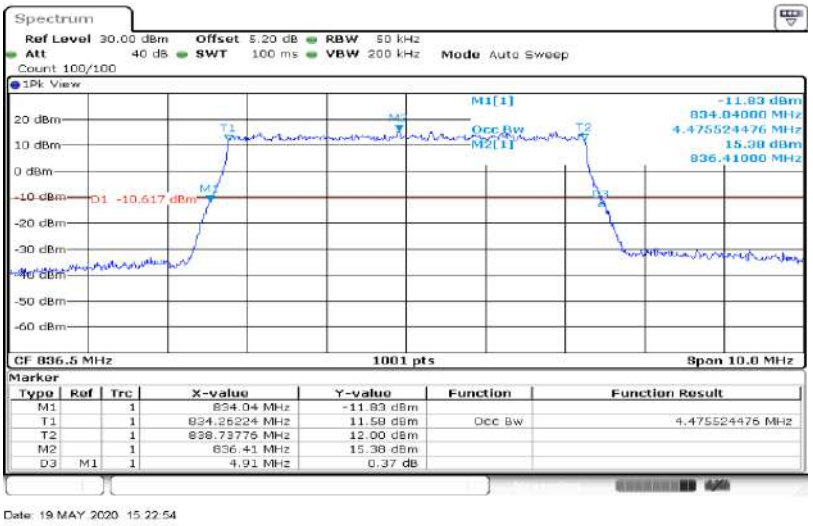

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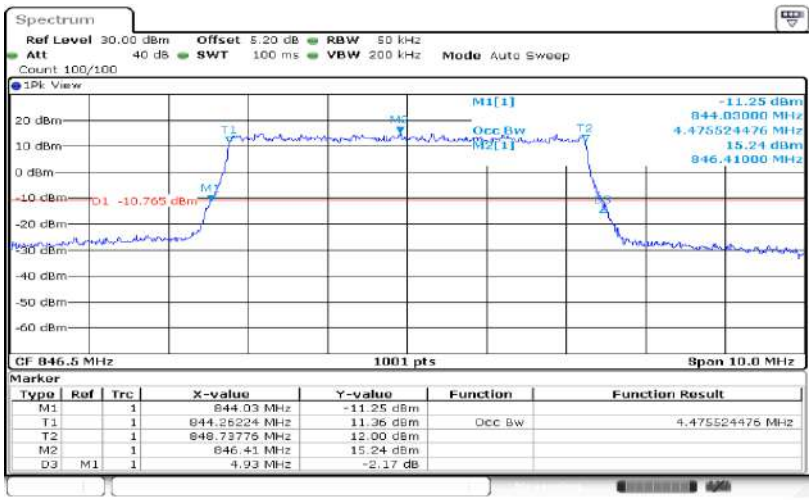

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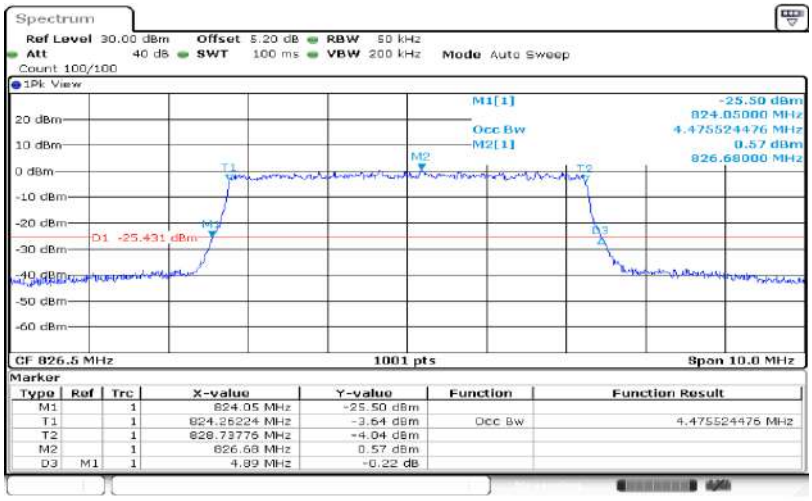

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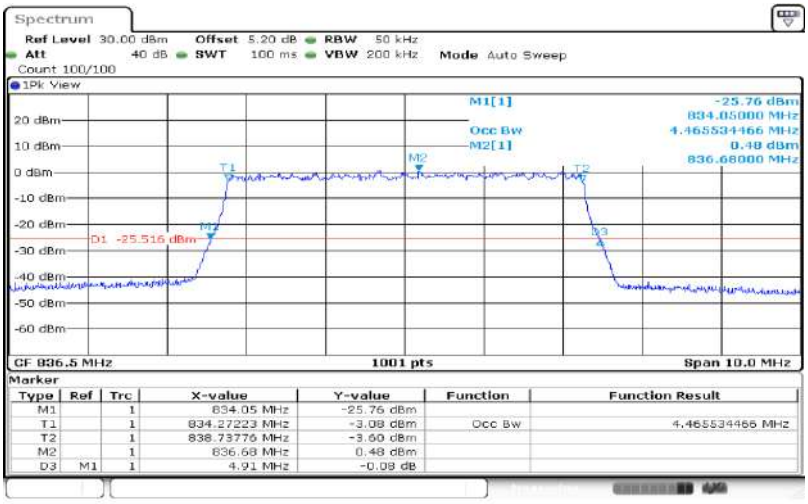

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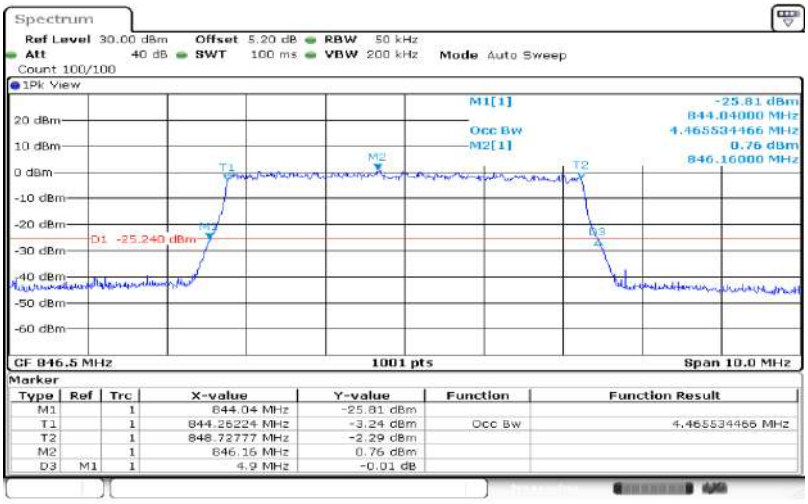

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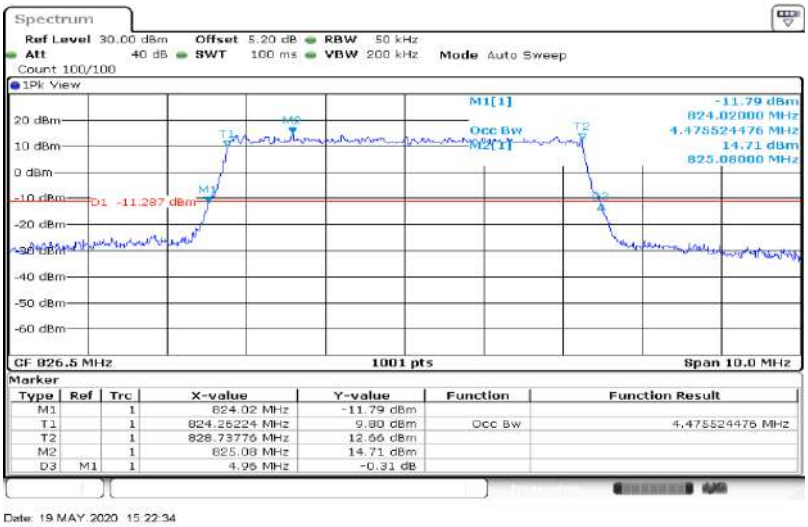

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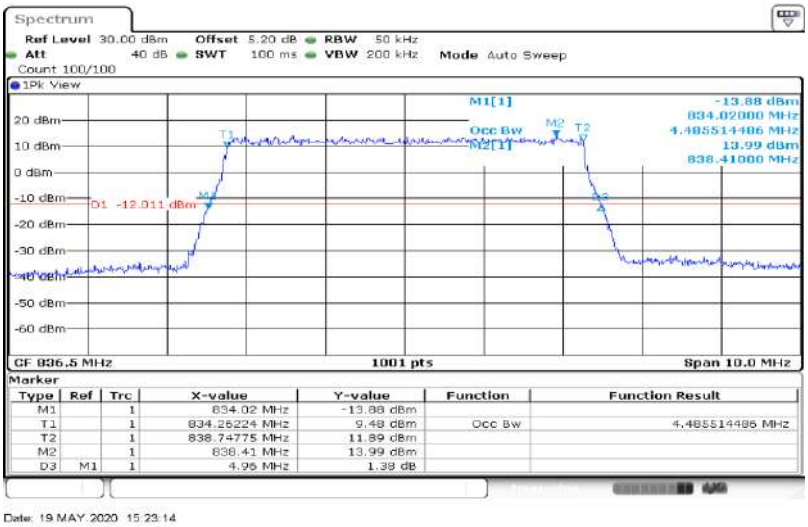

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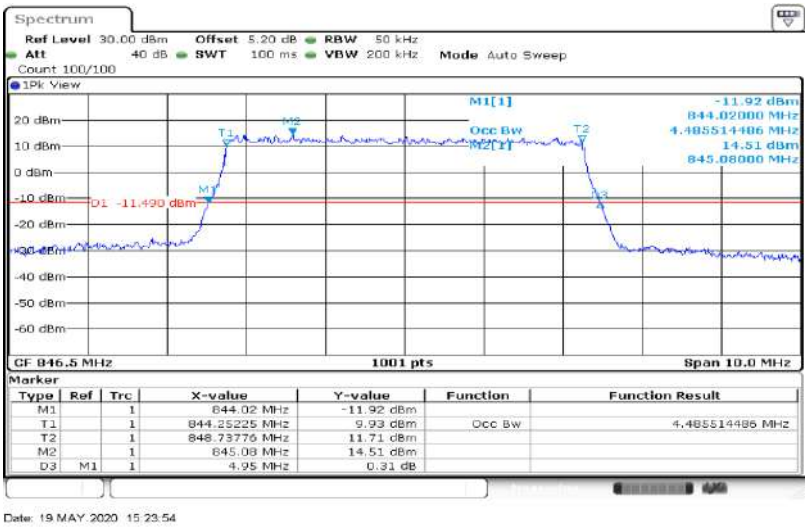

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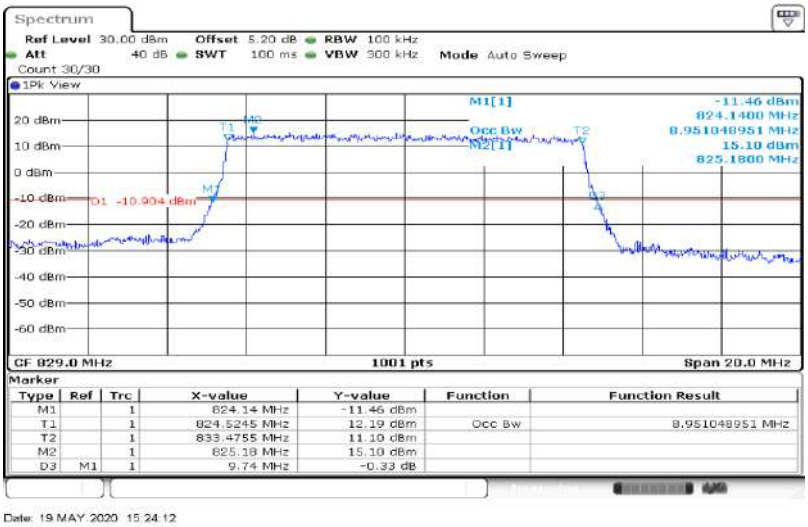

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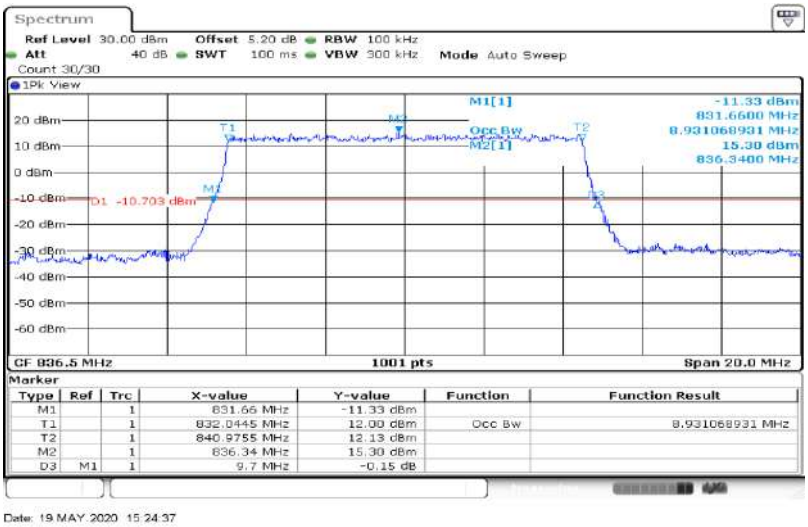
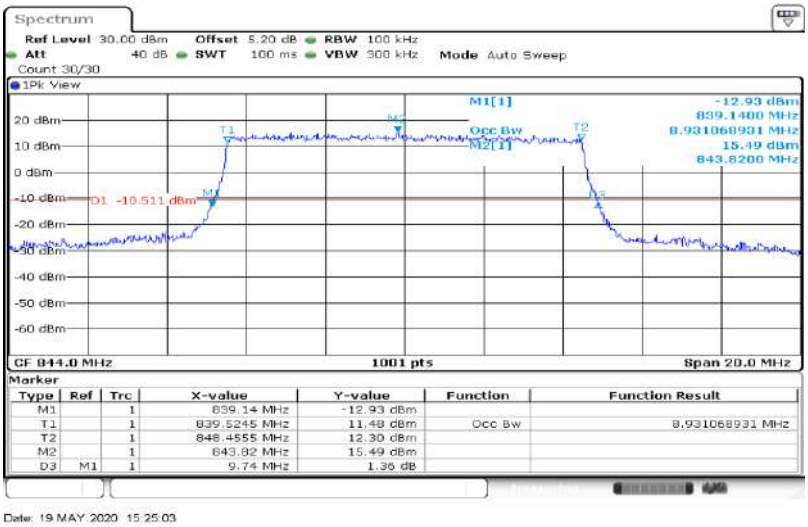


Band5-10MHz-QPSK-20600-50RB#0-8.931



Band5-10MHz-64QAM-20450-50RB#0-8.911

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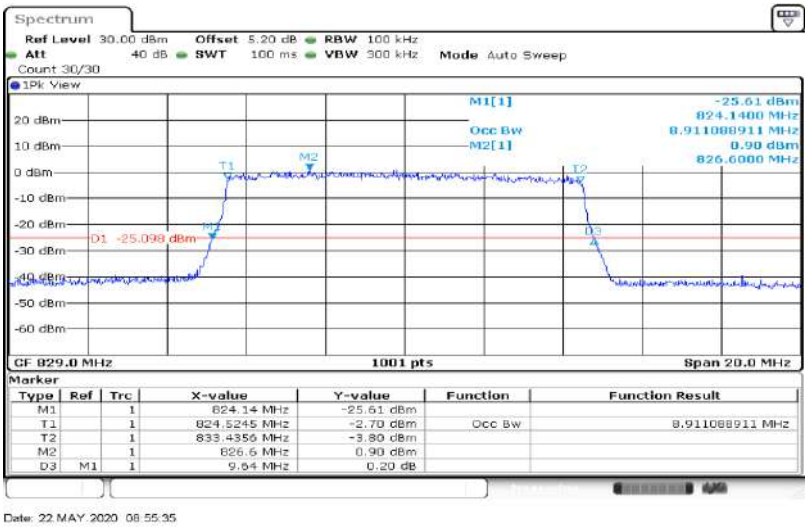

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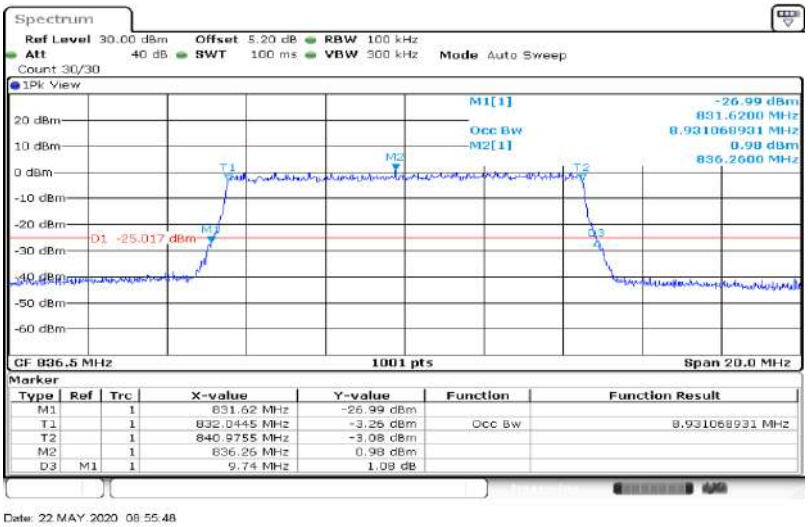

Band5-10MHz-64QAM-20600-50RB#0-8.911

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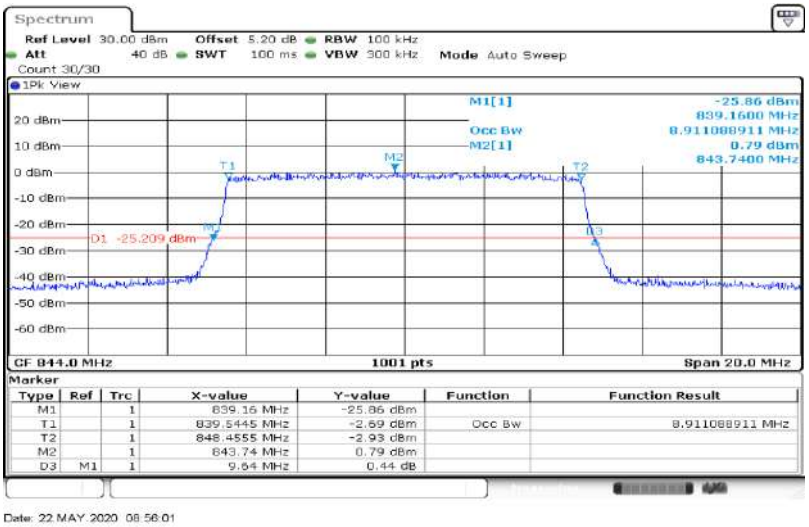

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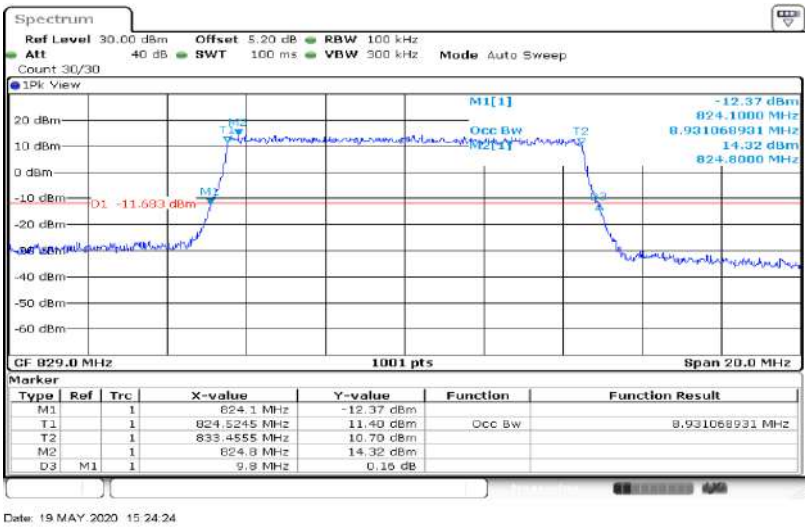

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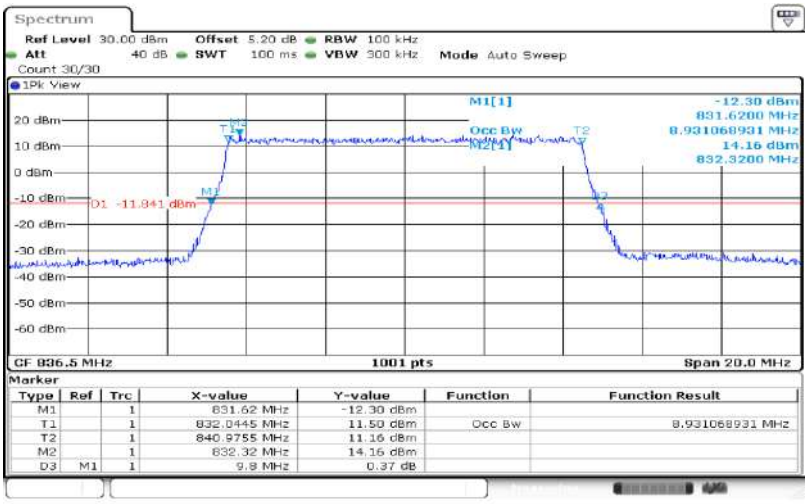

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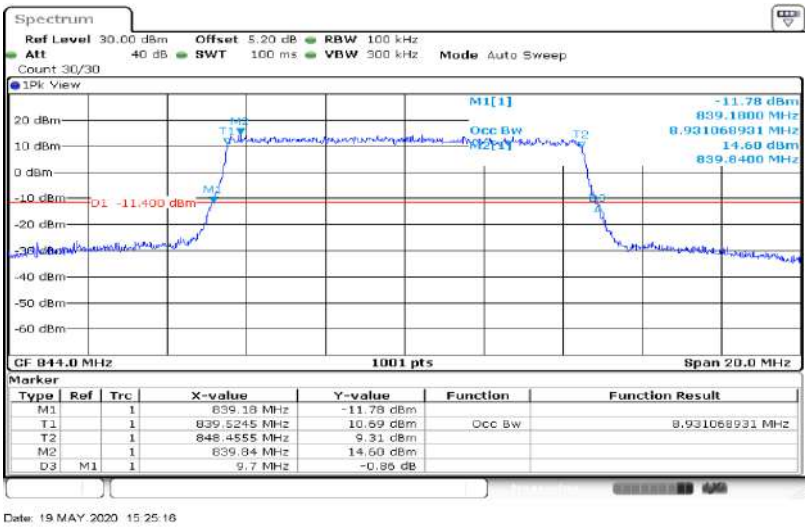

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5. Band Edge Compliance

5.1. Test Plots

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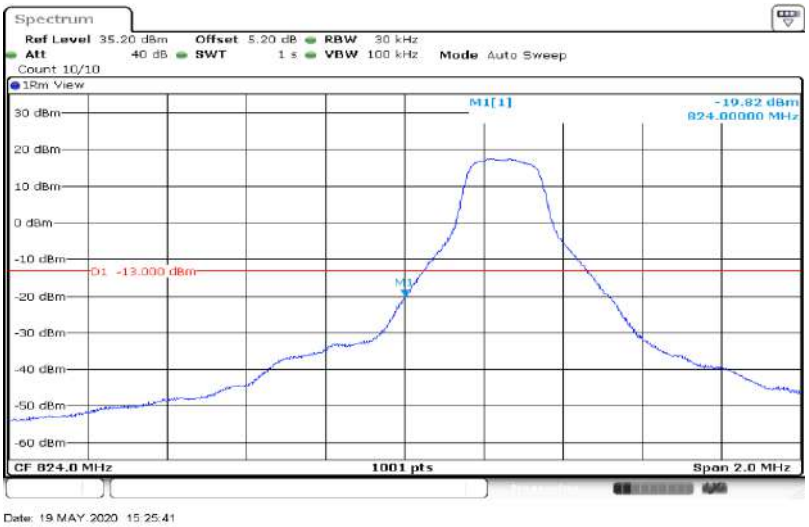

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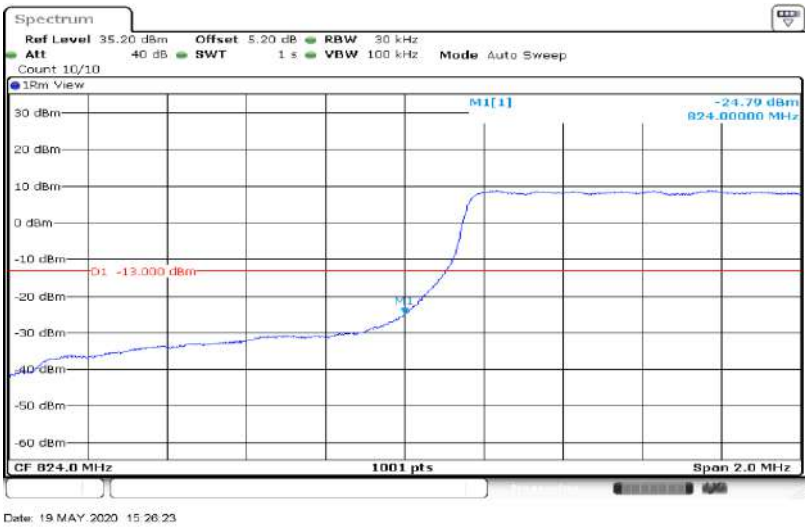

Band5-1.4MHz-QPSK-20643-1RB#5

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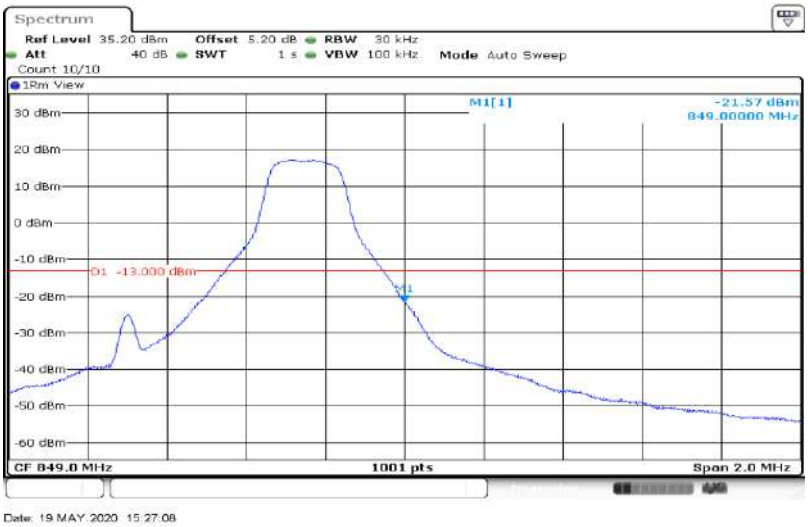

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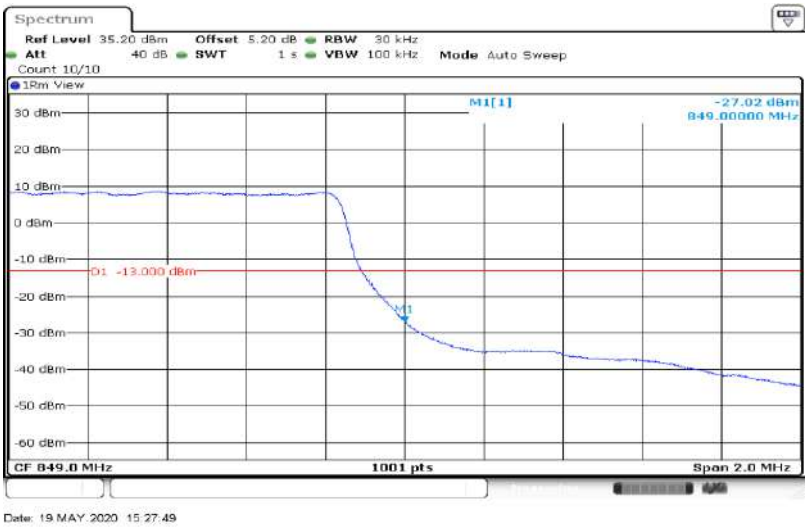

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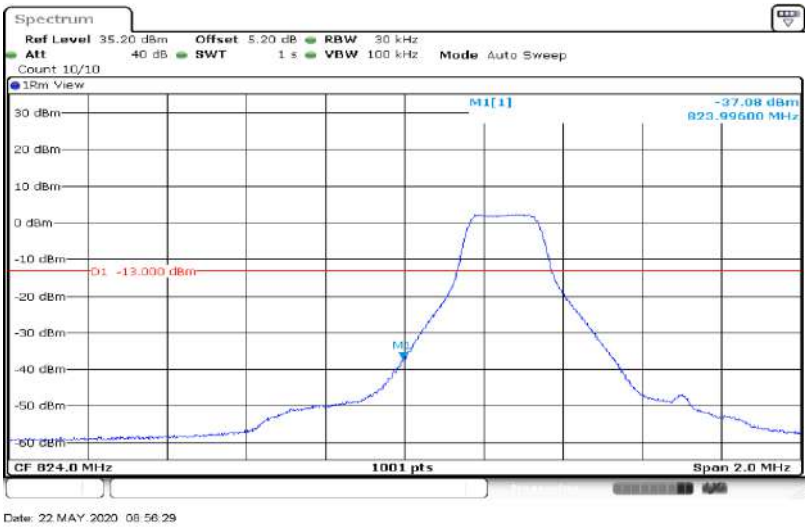

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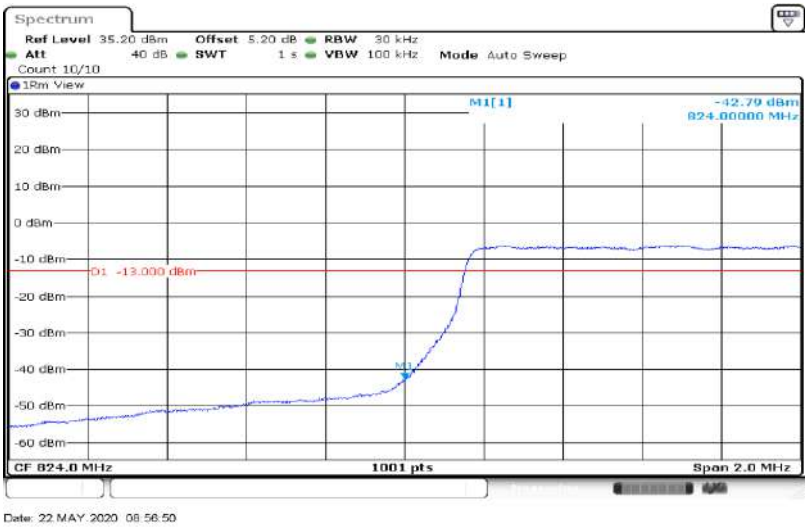

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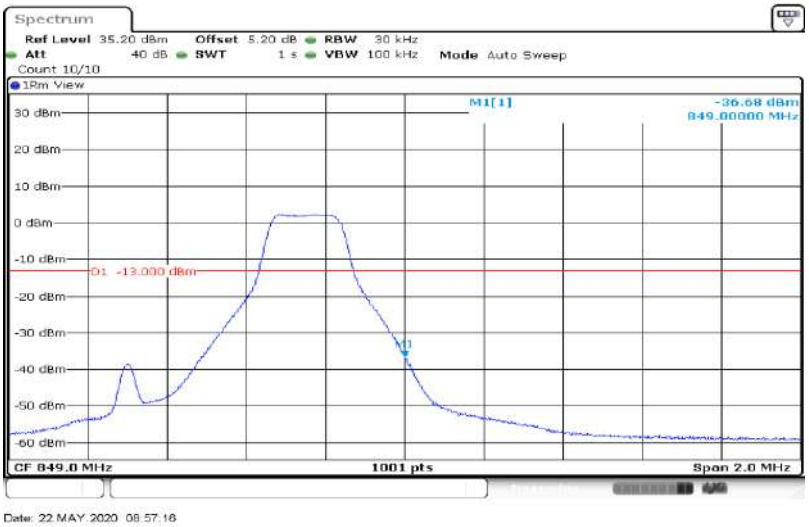

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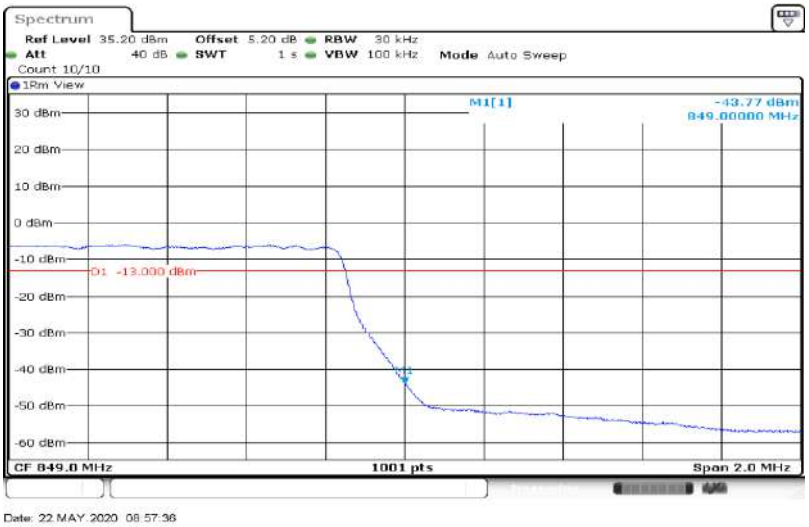

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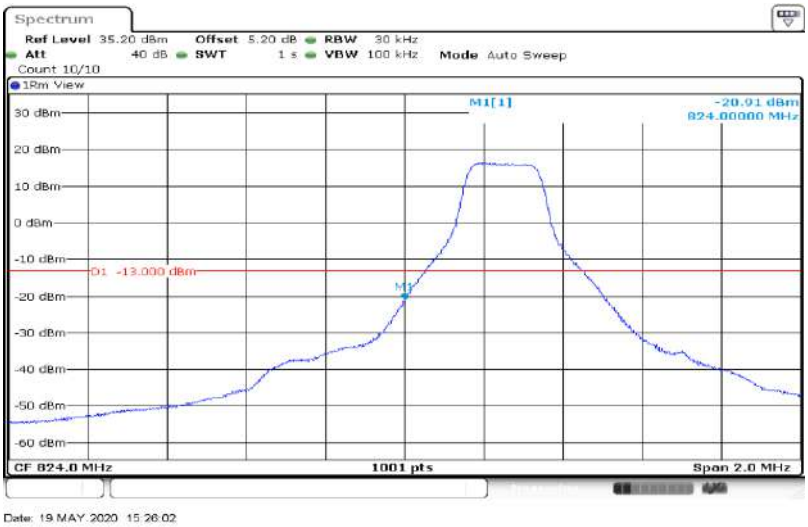

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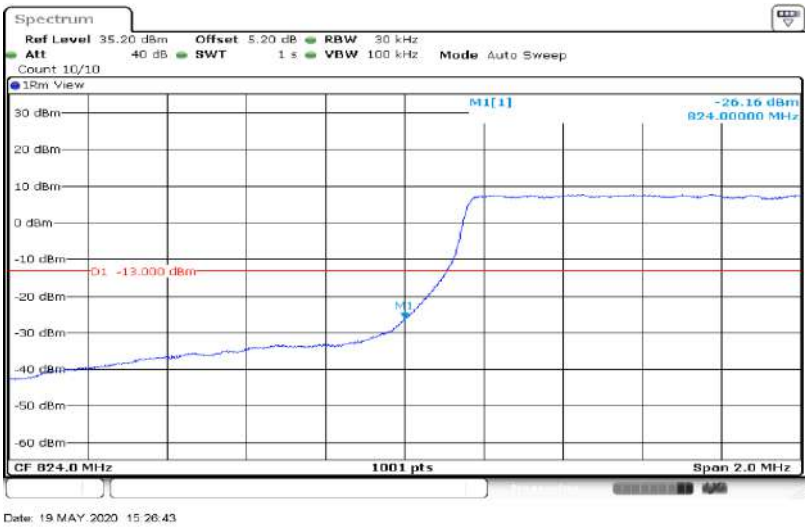

Band5-1.4MHz-16QAM-20643-1RB#5

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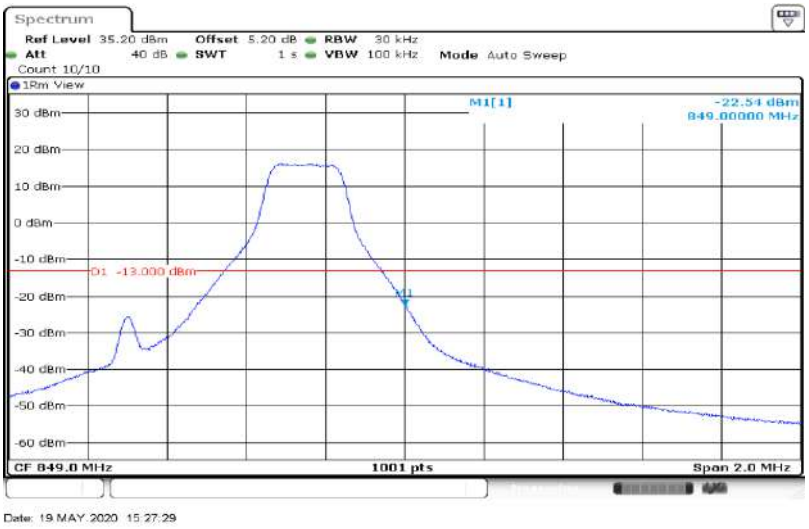

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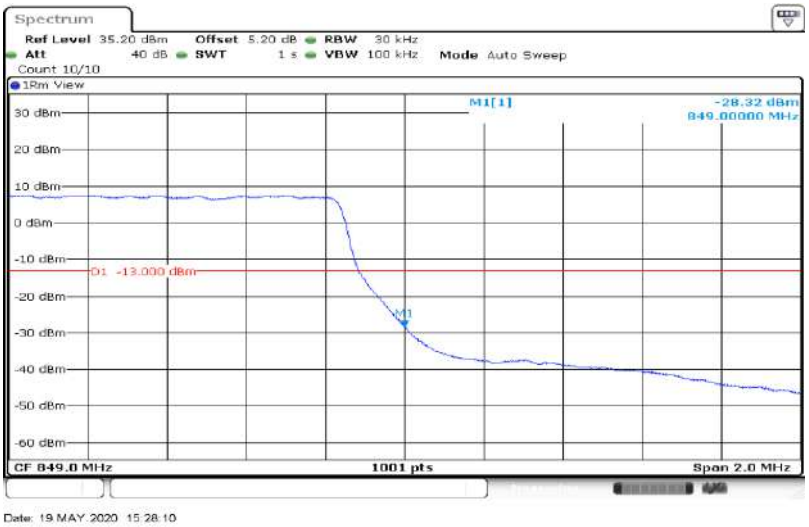

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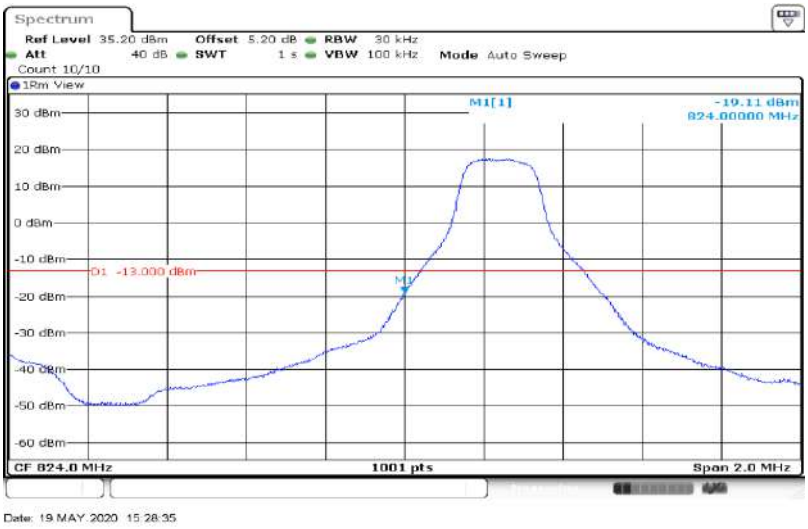

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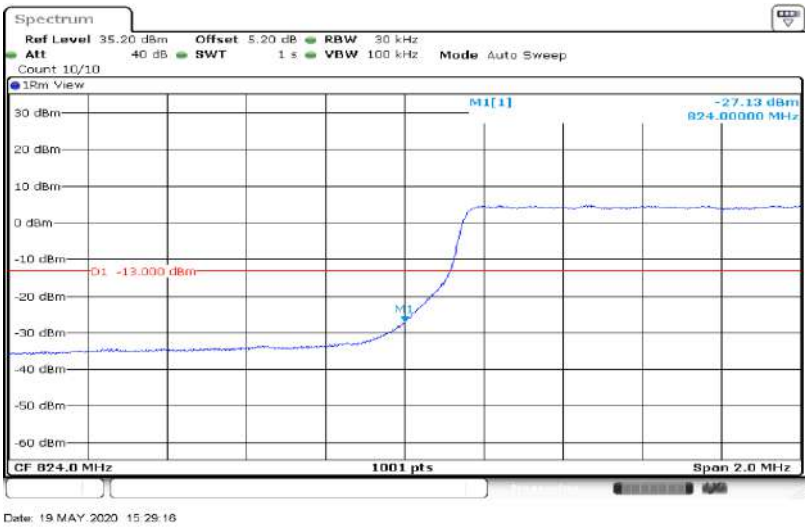

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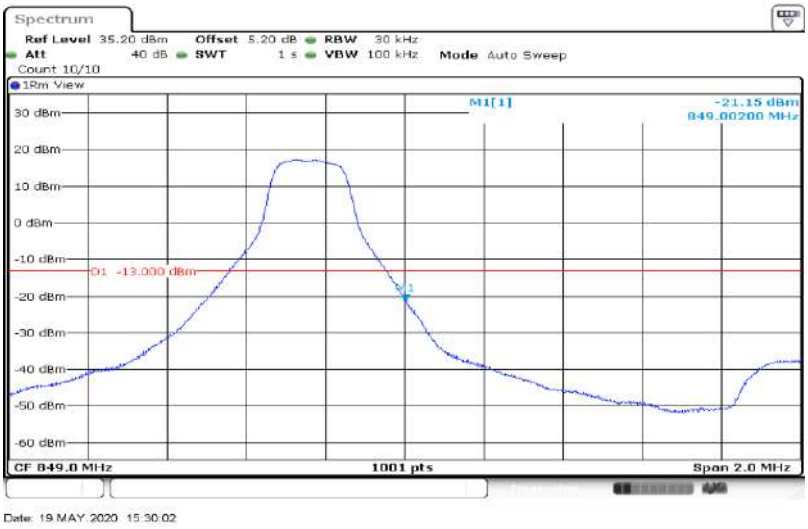

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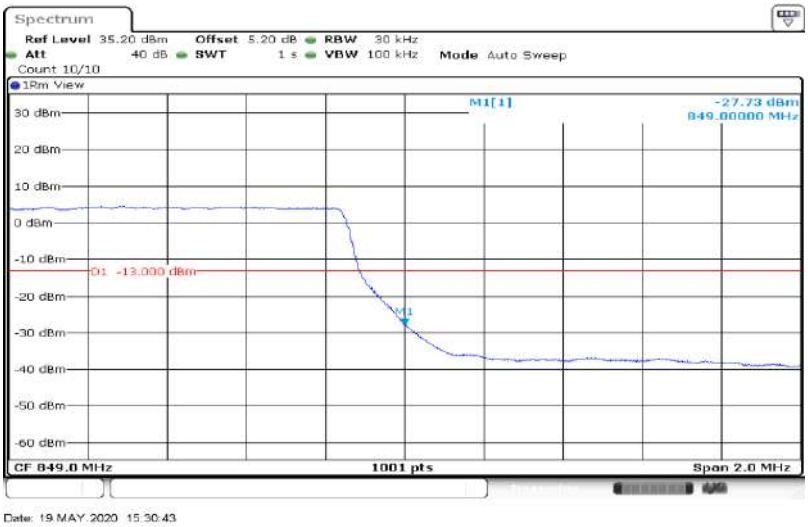

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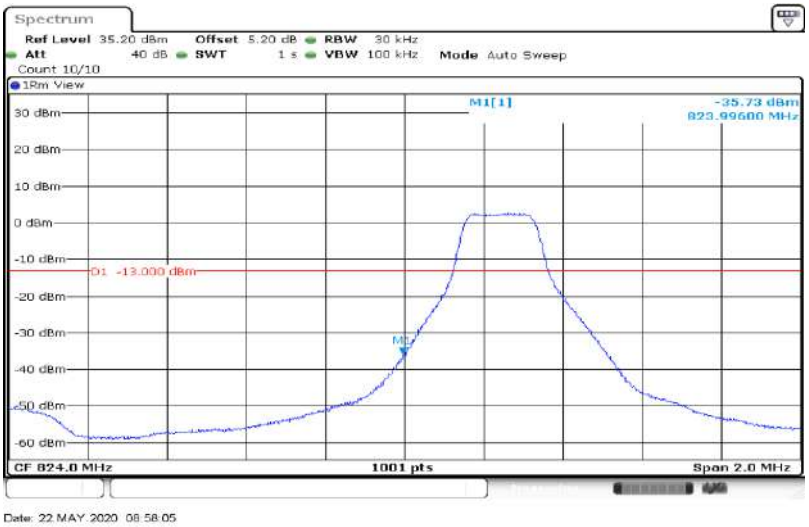

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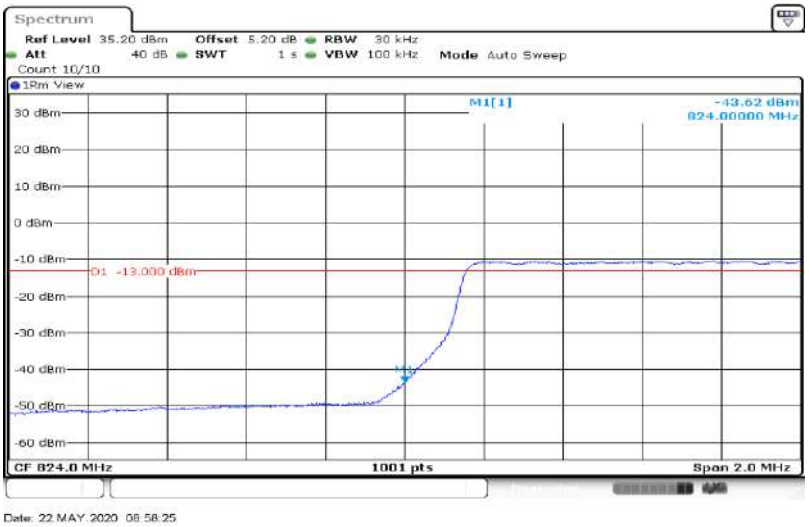

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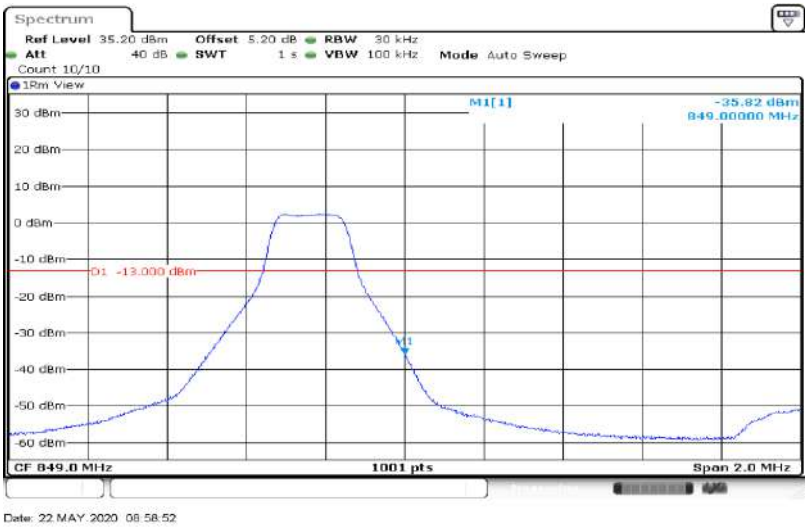

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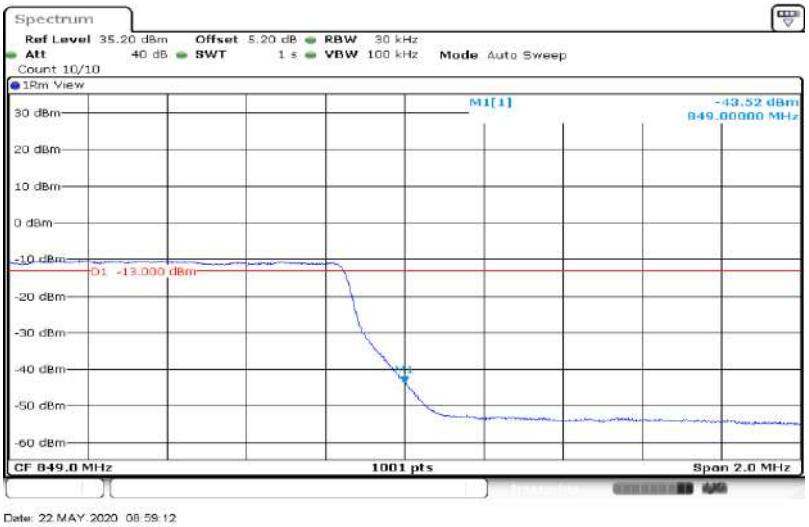

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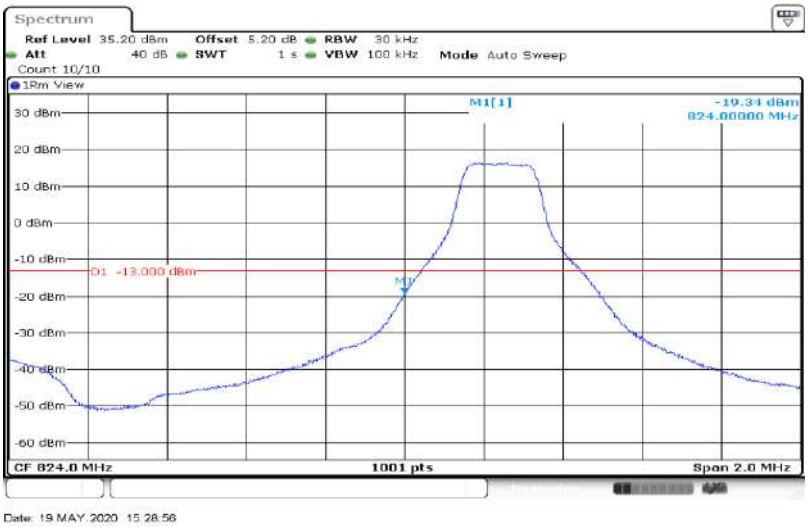

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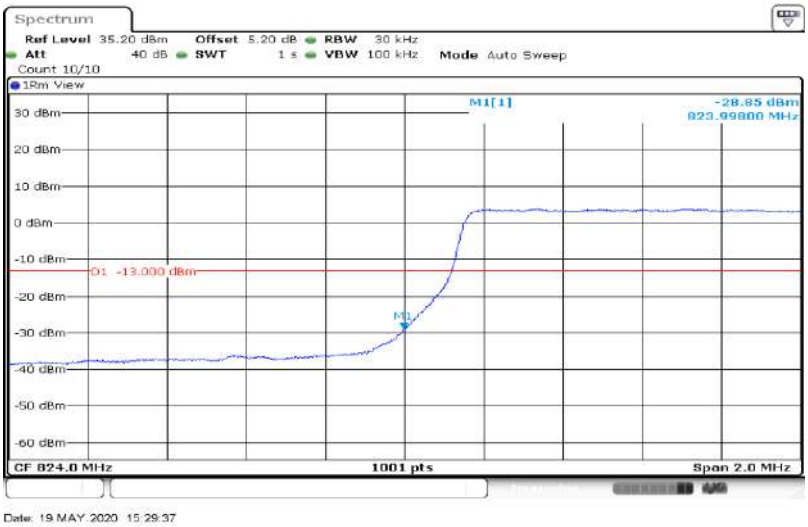

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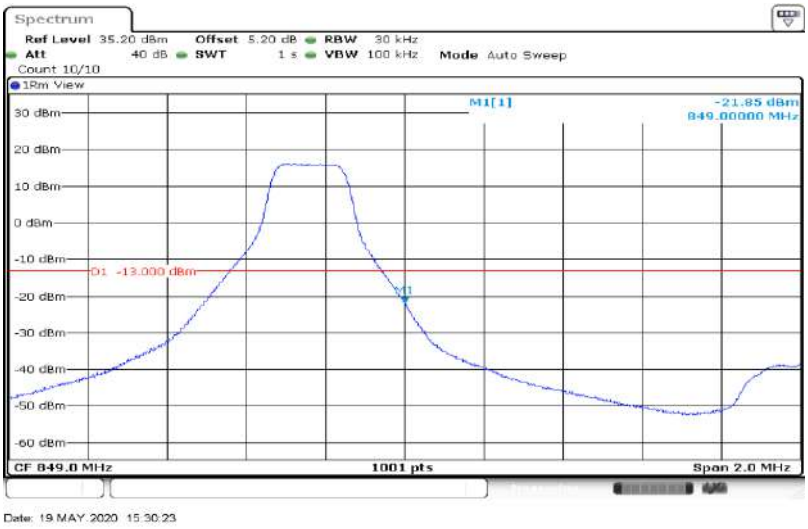

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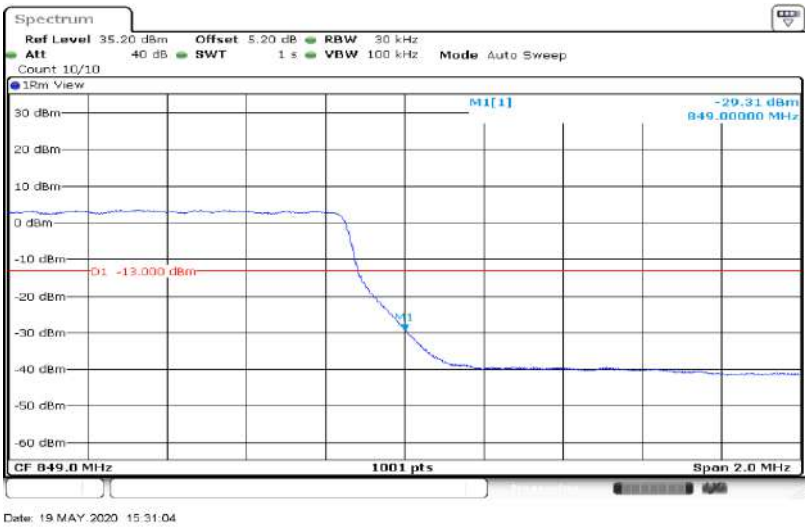

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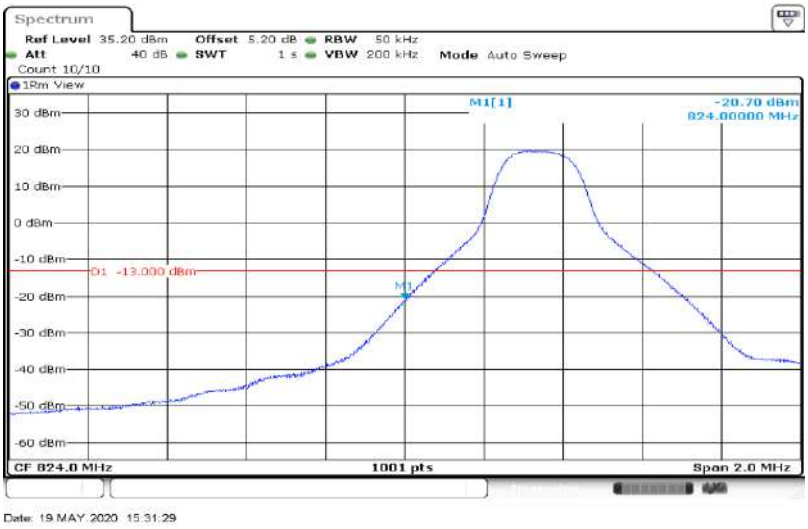

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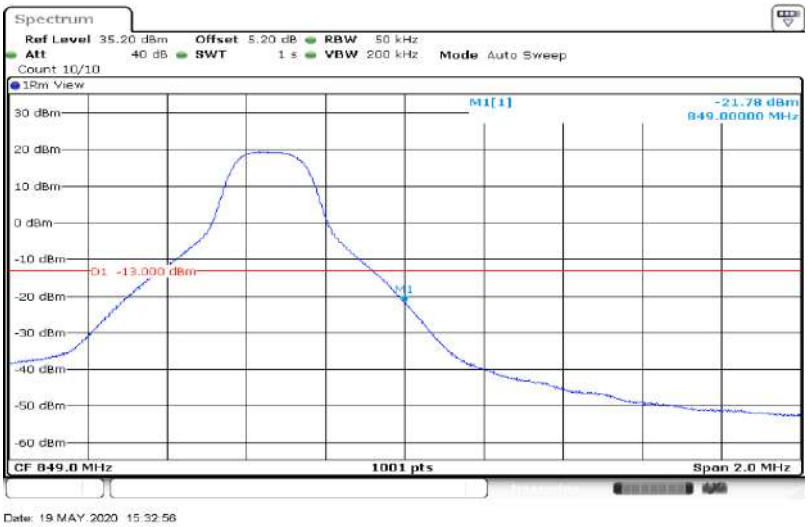

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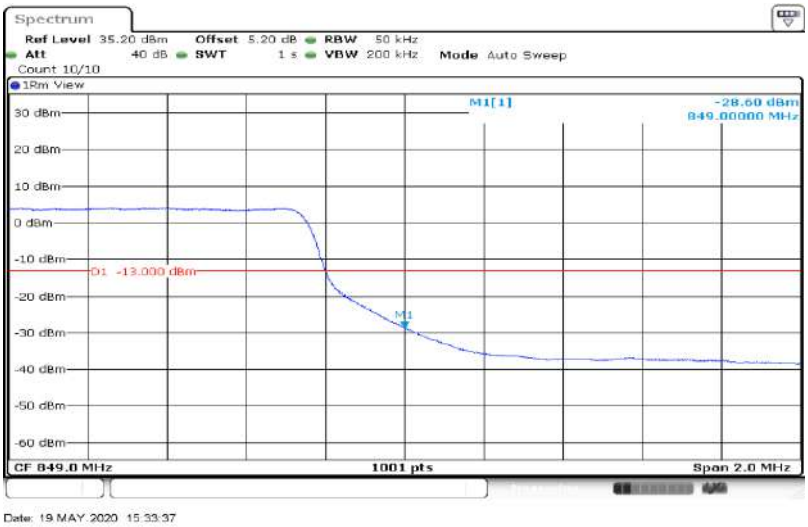

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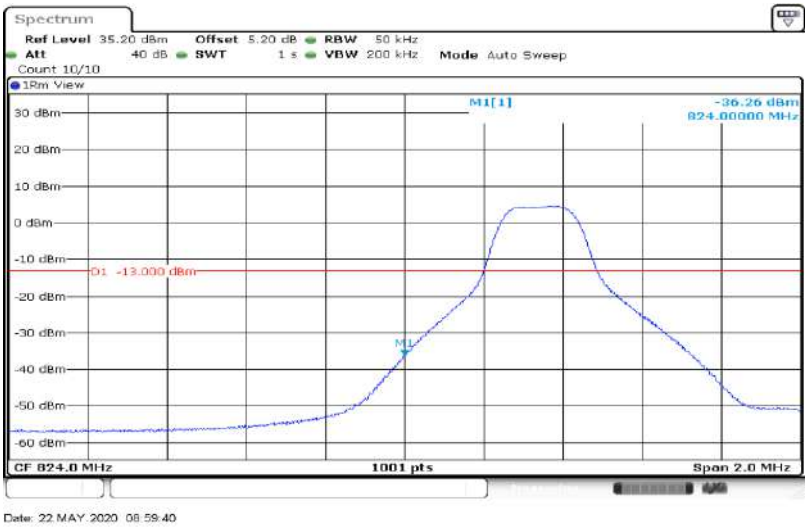

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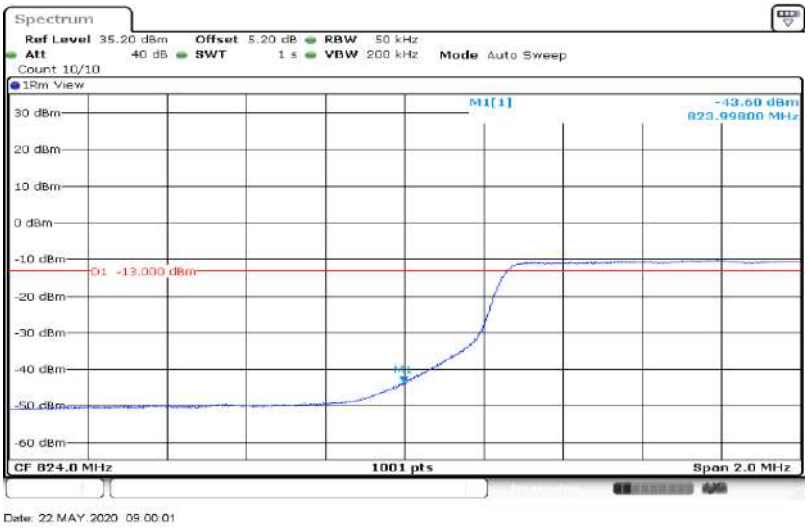

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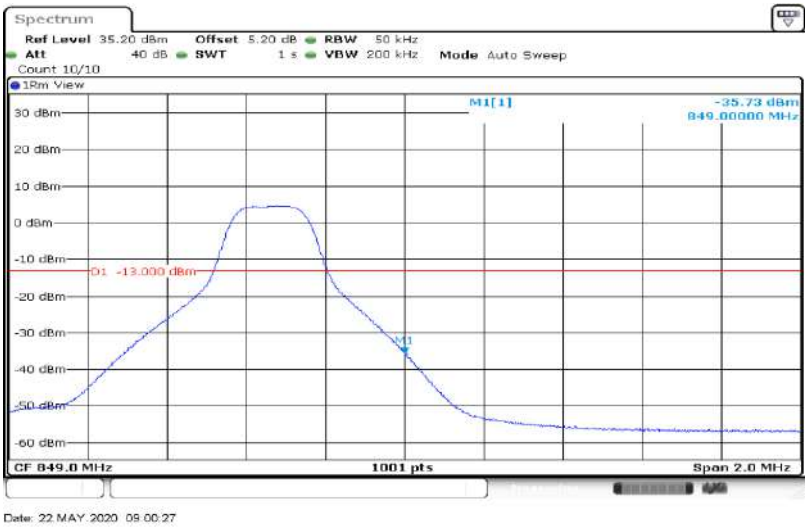

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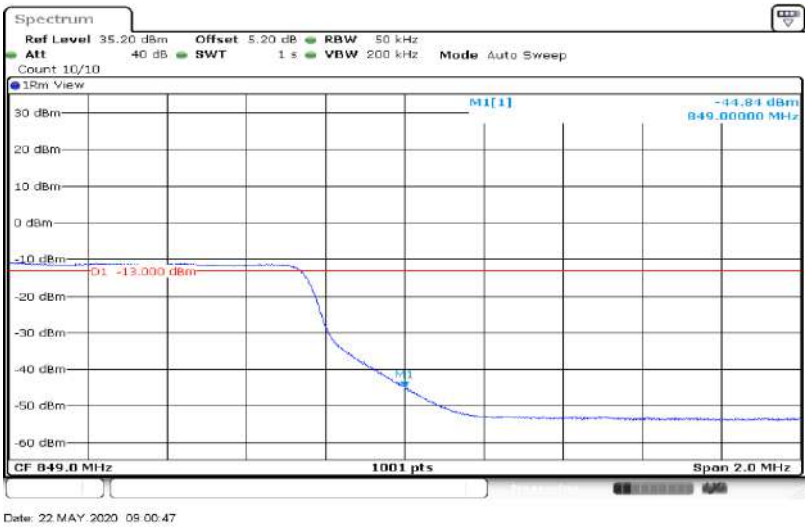

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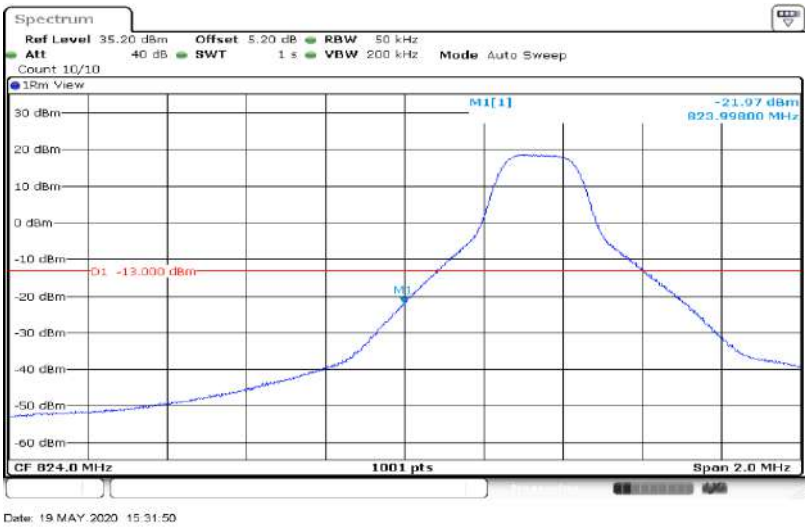

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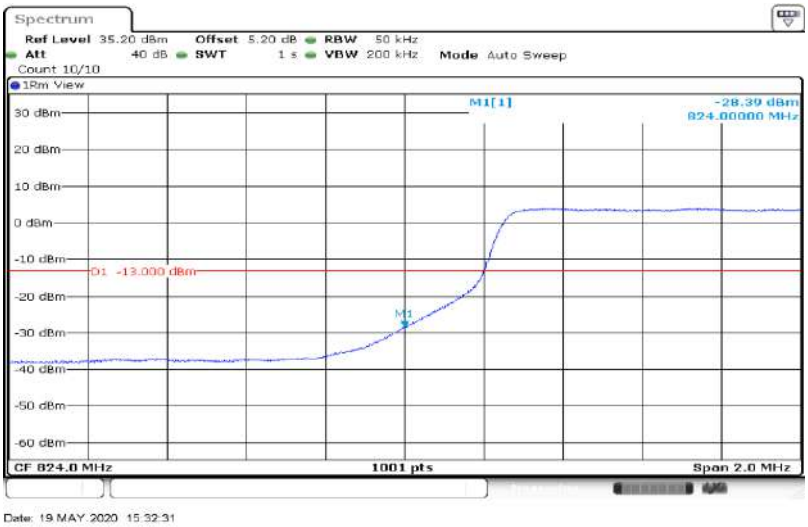

Band5-5MHz-16QAM-20625-1RB#24

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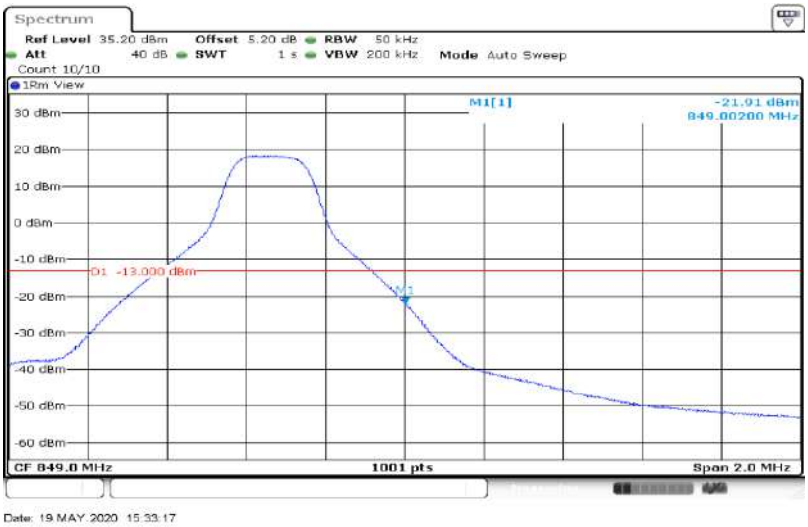
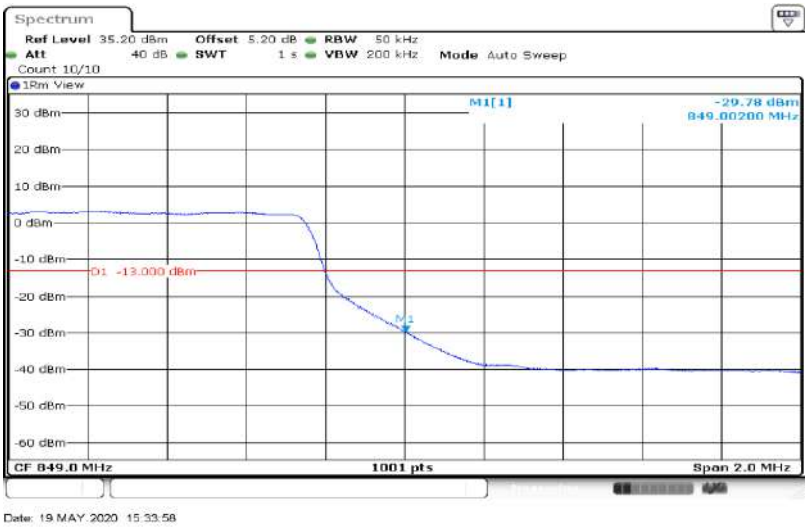


Band5-5MHz-16QAM-20625-25RB#0



Band5-10MHz-QPSK-20450-1RB#0

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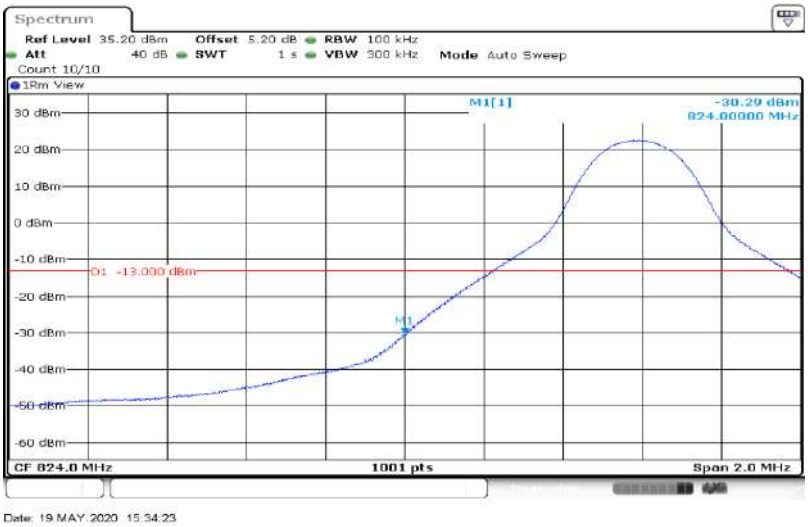
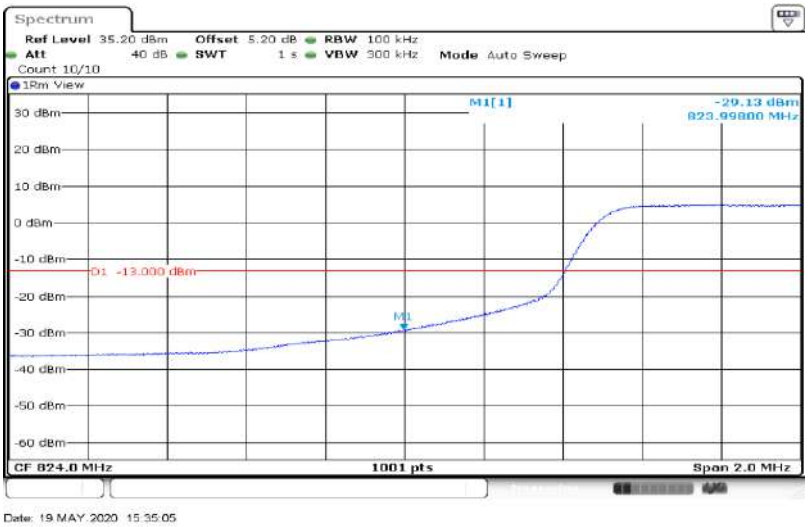


Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20600-1RB#49

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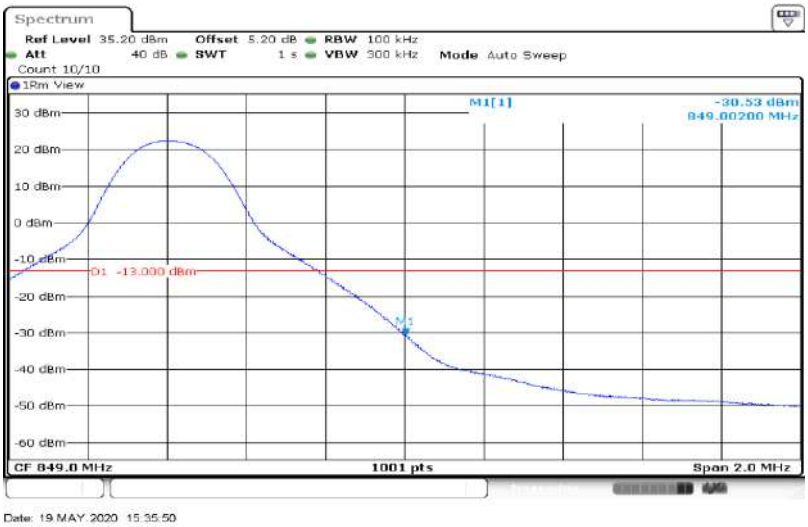
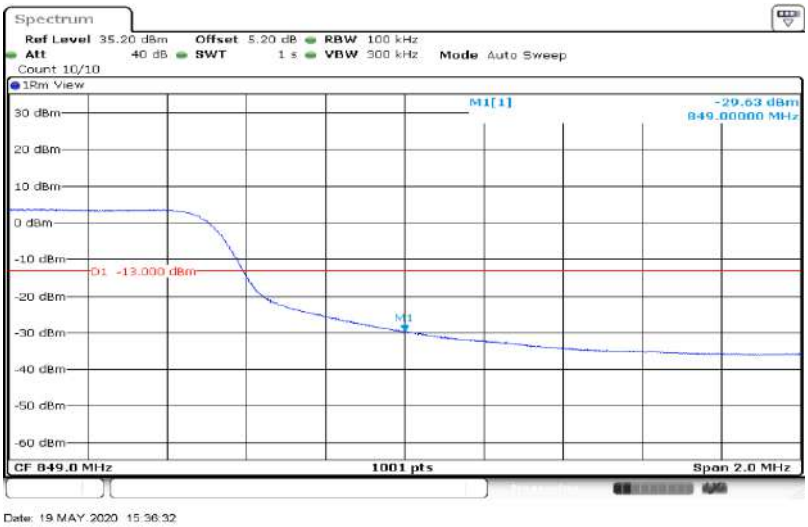


Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-64QAM-20450-1RB#0

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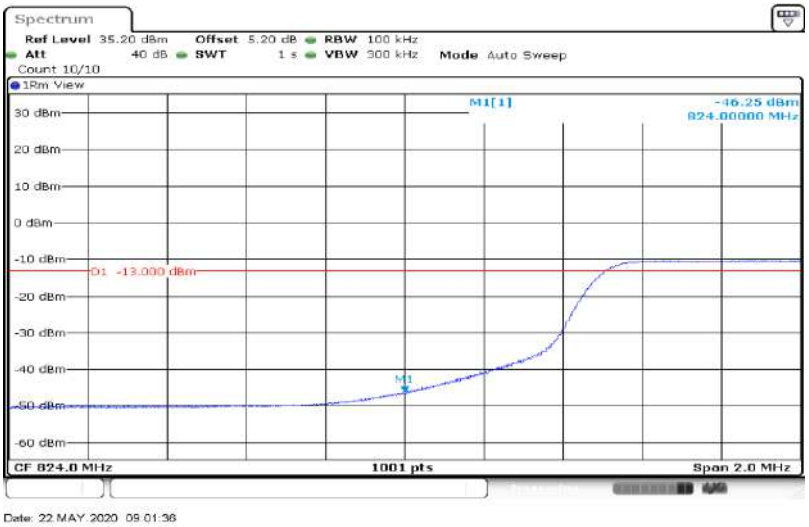
Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20600-1RB#49

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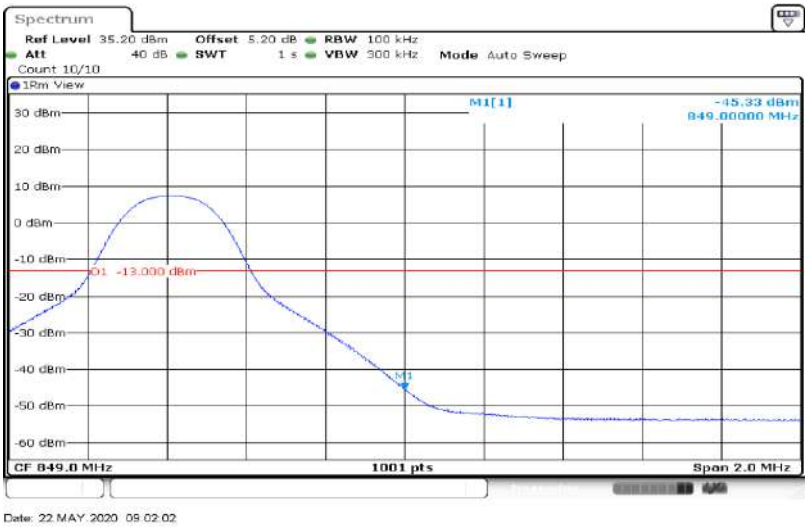
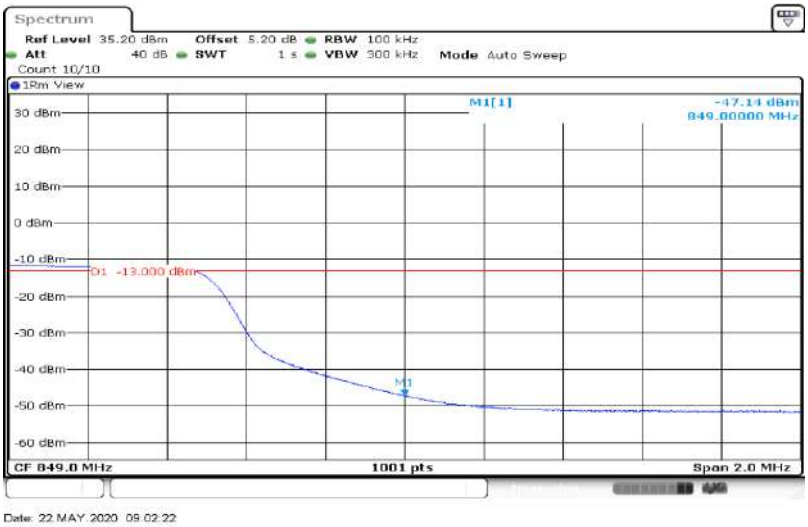


Band5-10MHz-64QAM-20600-50RB#0



Band5-10MHz-16QAM-20450-1RB#0

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Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20600-1RB#49

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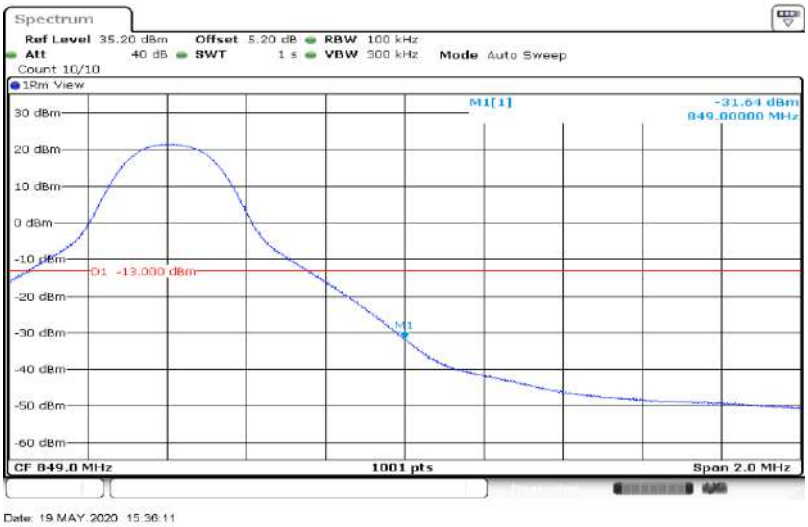
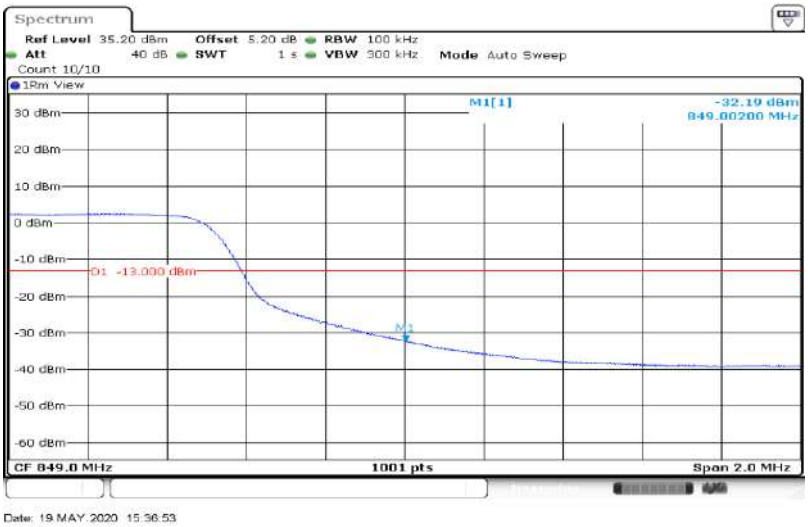


Band5-10MHz-16QAM-20600-50RB#0



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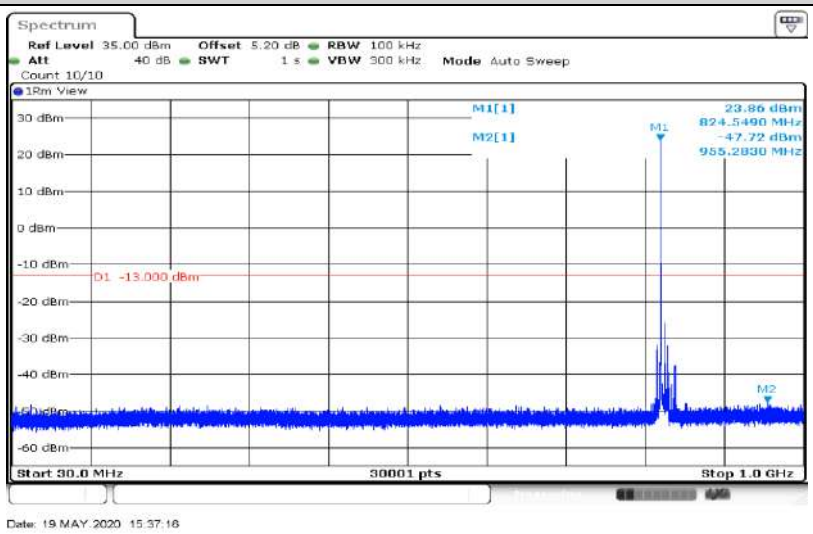
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

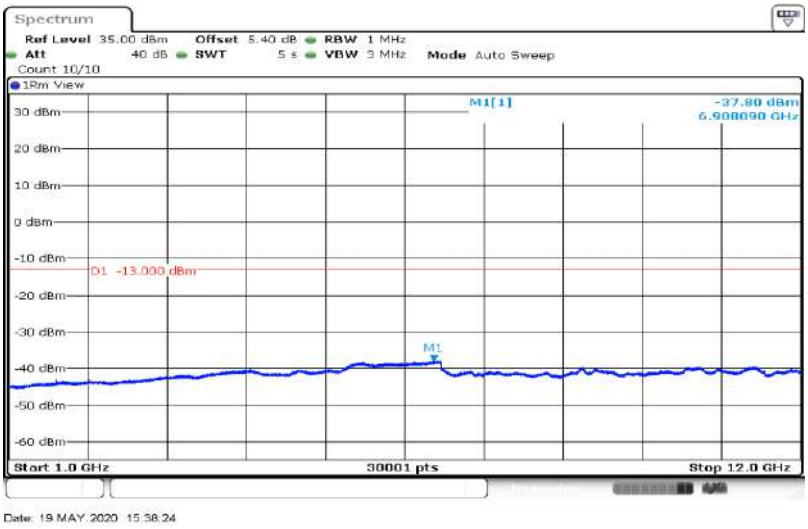
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

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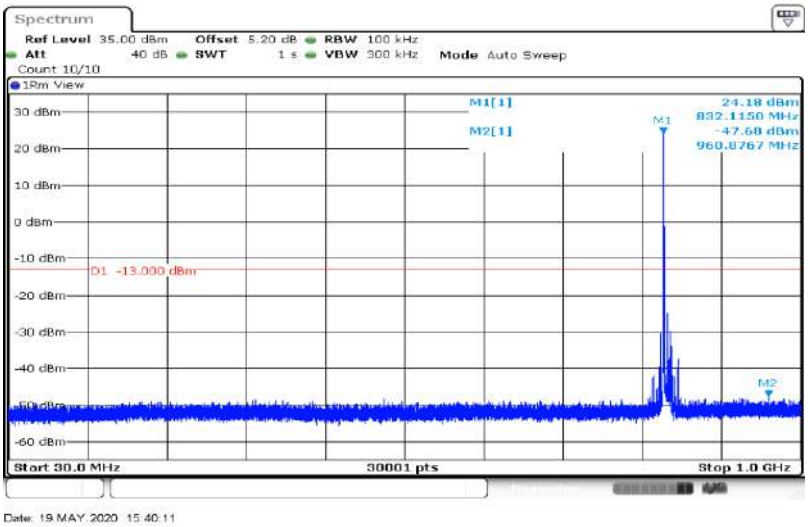

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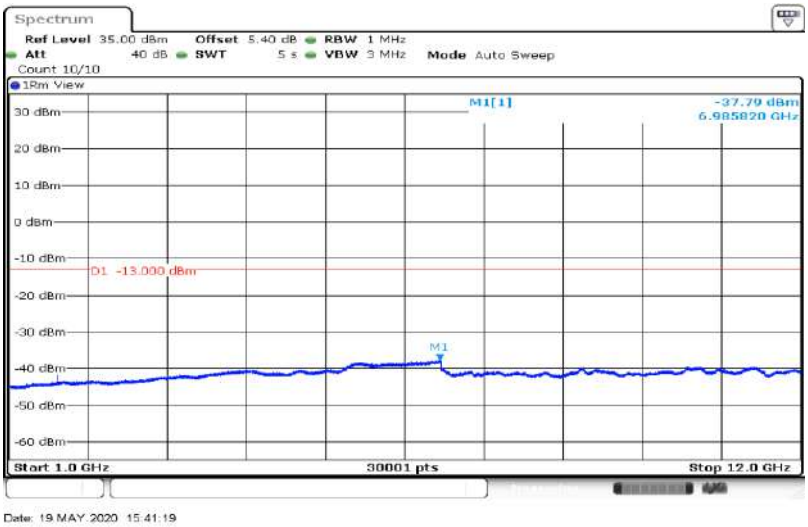

Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz

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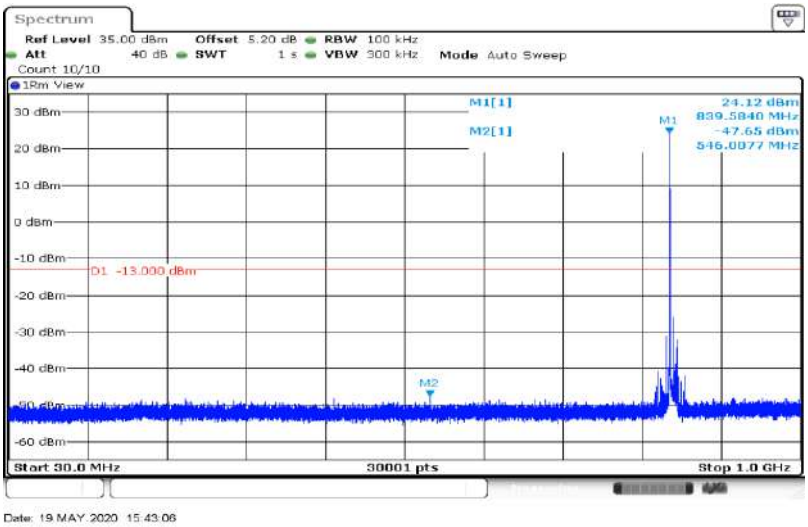
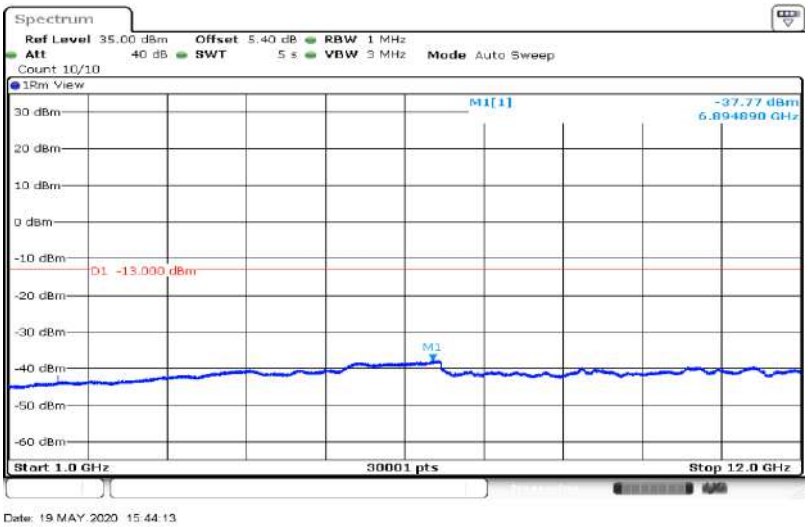


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz



Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz

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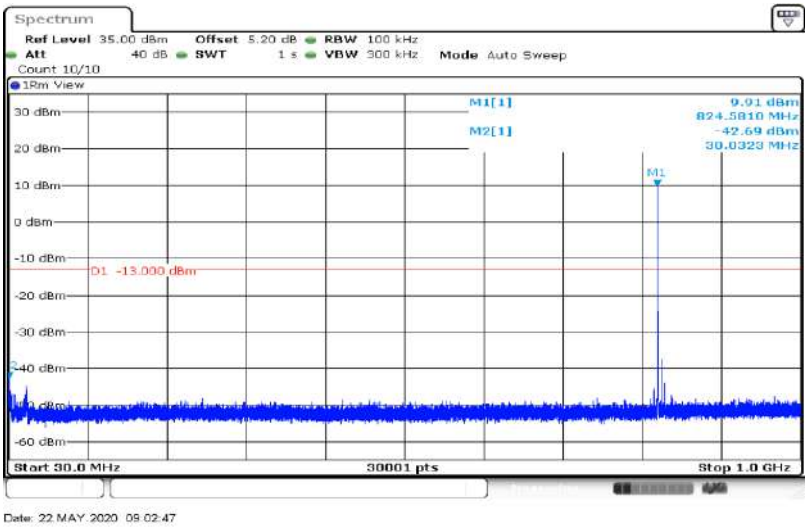
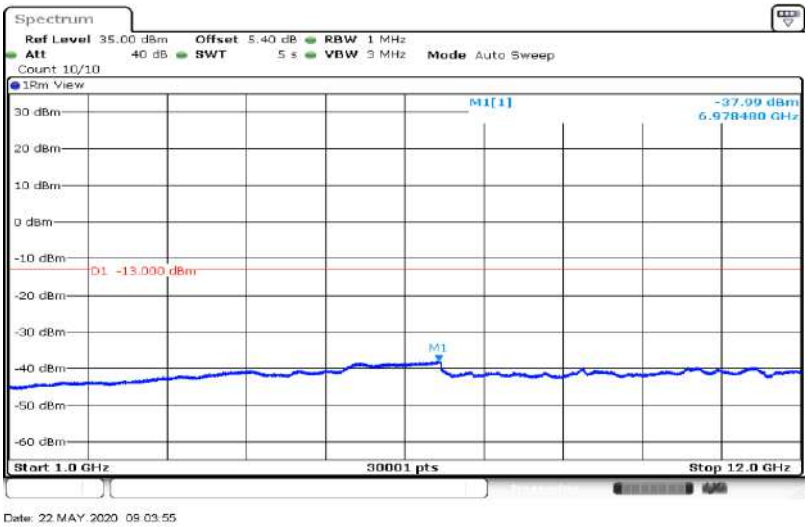


Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~12000MHz



Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz

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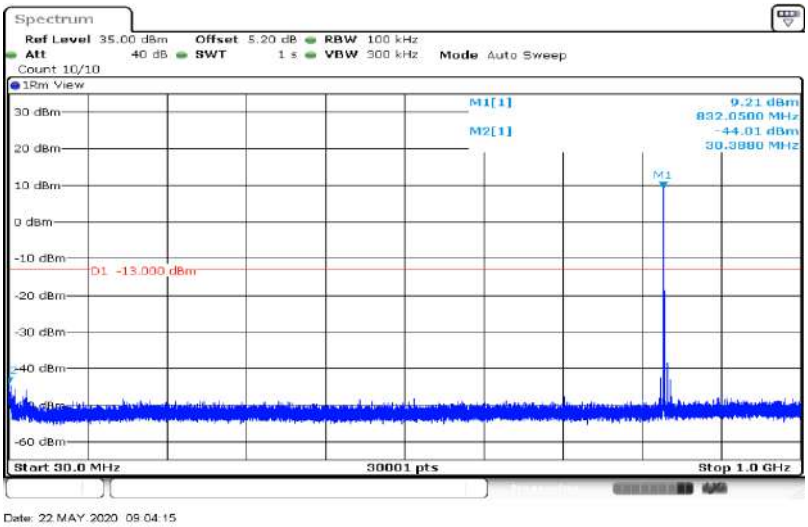

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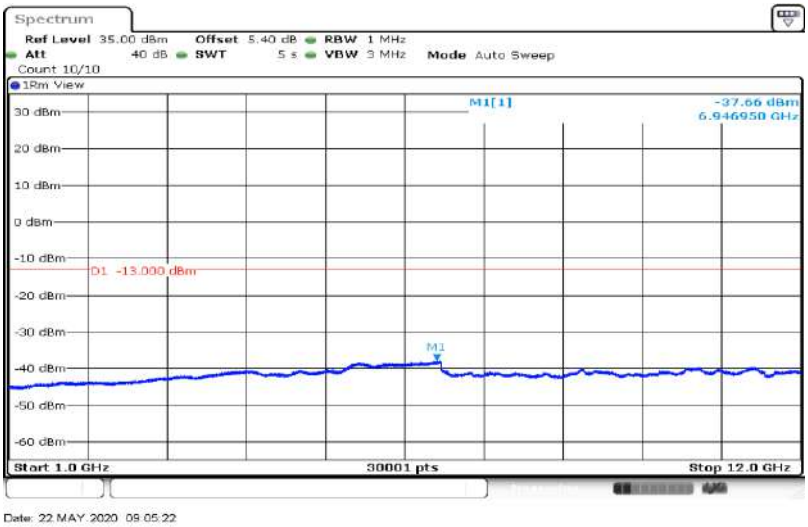

Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz

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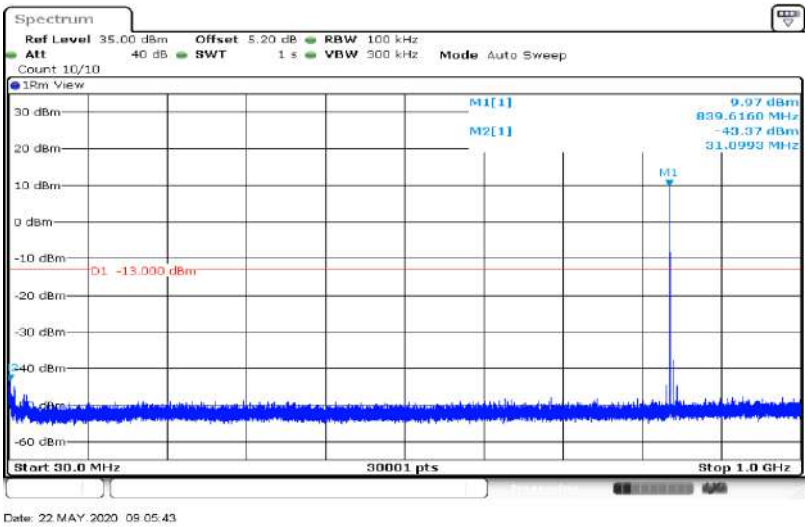

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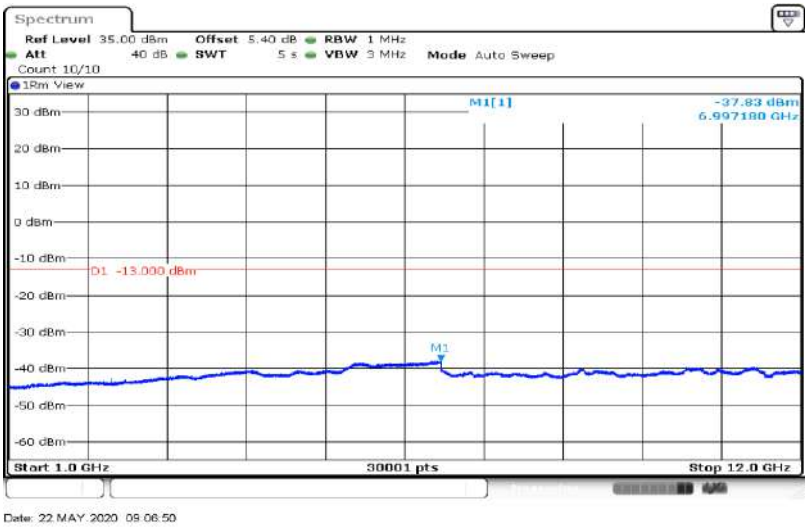

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz

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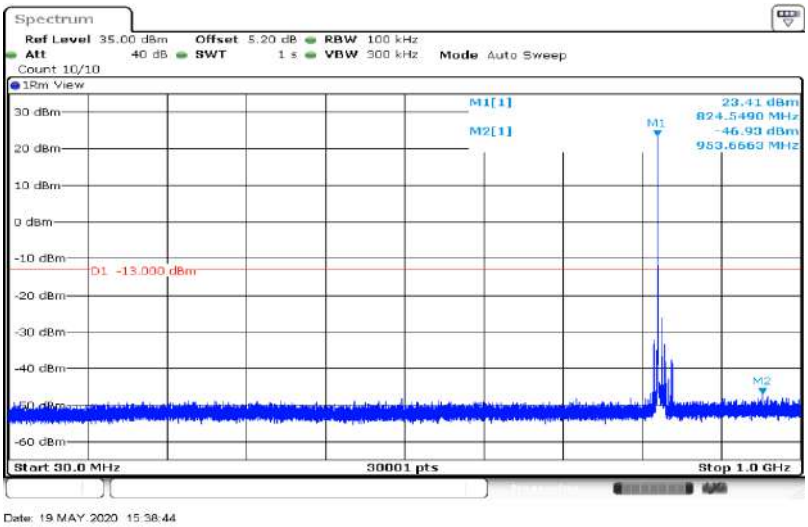

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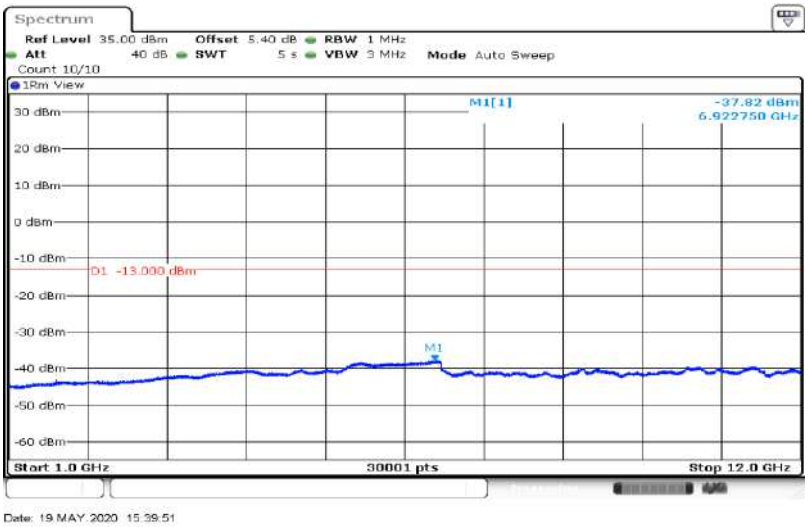

Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz

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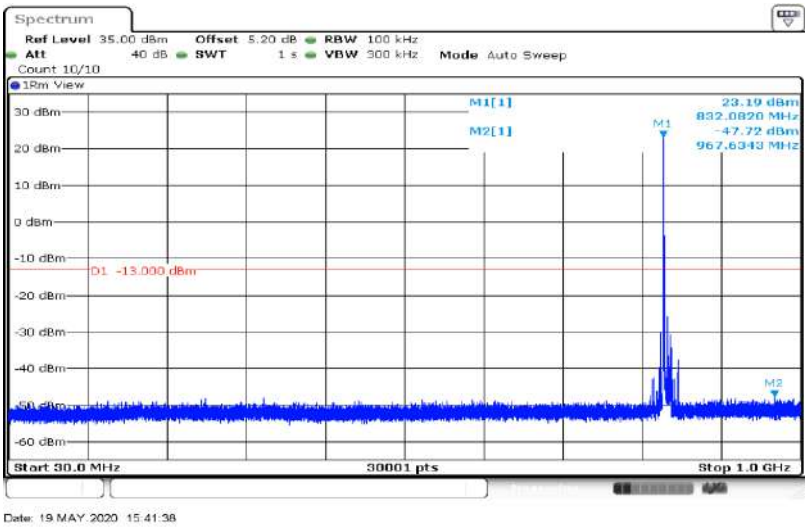
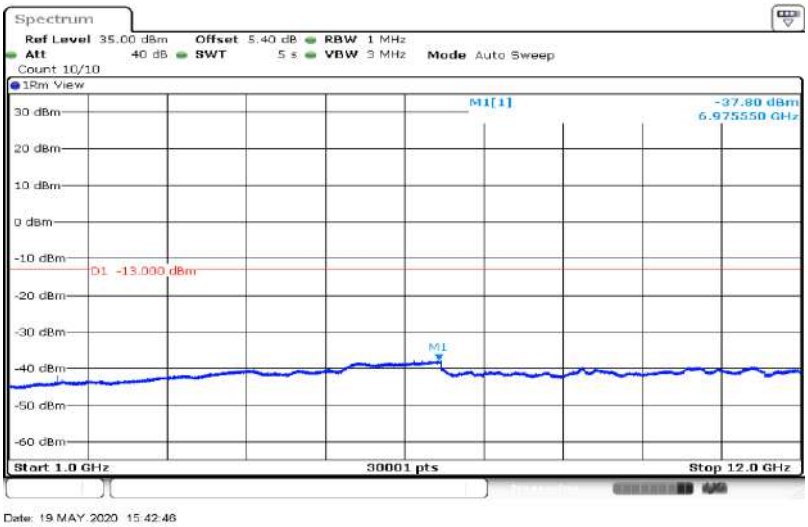


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz

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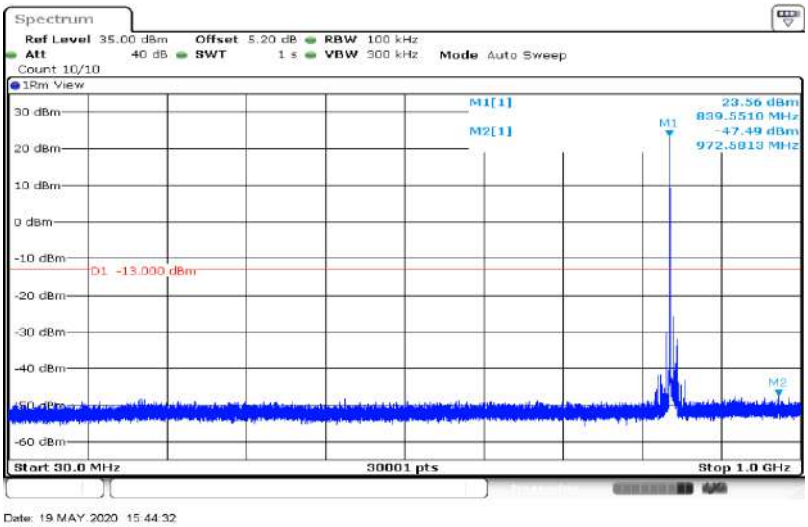

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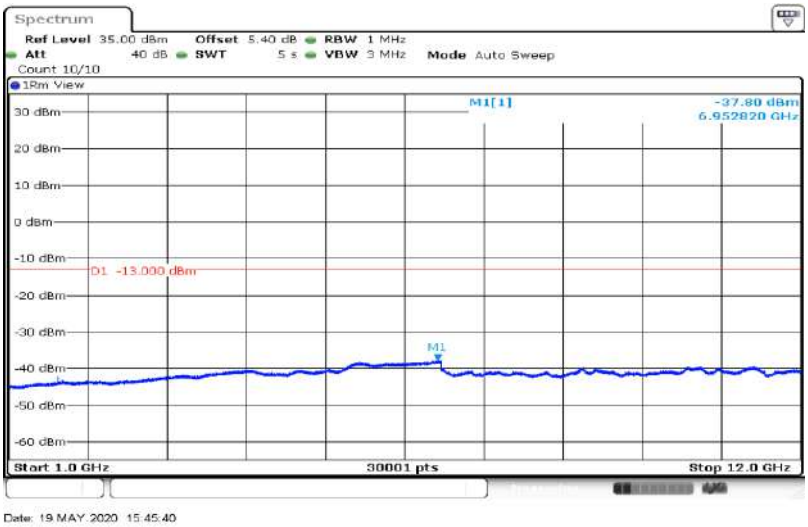

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.8835	-62.51	-13.00	49.51	175	135	Vertical
480.4420	-64.26	-13.00	51.26	166	325	Vertical
1648.9298	-53.02	-13.00	40.02	125	4	Vertical
3298.2099	-61.17	-13.00	48.17	284	231	Vertical
4123.0374	-60.02	-13.00	47.02	163	103	Vertical
8613.1871	-56.08	-13.00	43.08	294	356	Vertical
40.3795	-61.95	-13.00	48.95	196	198	Horizontal
535.9773	-62.17	-13.00	49.17	154	40	Horizontal
1648.9298	-50.35	-13.00	37.35	111	184	Horizontal
3298.4099	-57.81	-13.00	44.81	141	166	Horizontal
4122.8374	-59.88	-13.00	46.88	137	325	Horizontal
8749.3916	-55.75	-13.00	42.75	199	8	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.3685	-62.00	-13.00	49.00	176	199	Vertical
599.2245	-61.13	-13.00	48.13	145	230	Vertical
1664.1328	-57.63	-13.00	44.63	111	187	Vertical
3328.6110	-61.90	-13.00	48.90	139	230	Vertical
4160.2387	-60.29	-13.00	47.29	178	104	Vertical
8776.9926	-54.87	-13.00	41.87	124	104	Vertical
41.9316	-62.40	-13.00	49.40	196	293	Horizontal
539.0815	-62.49	-13.00	49.49	142	261	Horizontal
1664.1328	-52.59	-13.00	39.59	222	22	Horizontal
3328.2109	-58.69	-13.00	45.69	175	167	Horizontal
4160.4387	-61.04	-13.00	48.04	263	325	Horizontal
8799.5933	-54.97	-13.00	41.97	278	325	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.1560	-63.24	-13.00	50.24	263	199	Vertical
576.7193	-62.43	-13.00	49.43	211	10	Vertical
1678.9358	-56.84	-13.00	43.84	278	162	Vertical
3358.8120	-63.54	-13.00	50.54	264	230	Vertical
5037.6679	-60.60	-13.00	47.60	111	230	Vertical
8864.5955	-54.64	-13.00	41.64	126	199	Vertical
39.5550	-63.02	-13.00	50.02	232	356	Horizontal
566.5338	-62.22	-13.00	49.22	152	41	Horizontal
1678.9358	-53.54	-13.00	40.54	166	126	Horizontal
3358.6120	-59.89	-13.00	46.89	177	167	Horizontal
5037.6679	-61.59	-13.00	48.59	263	72	Horizontal
8858.3953	-55.17	-13.00	42.17	194	72	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	4.20	0.005066	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	0.80	0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	0.30	0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.90	0.001066	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	0.20	0.000241	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	0.90	0.001066	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	1.40	0.001689	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	0.80	0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	1.10	0.001315	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.70	-0.000829	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

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Band5	10MHz	QPSK	20450	50RB#0	NV	-30	1.00	0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	1.80	0.002171	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	1.40	0.001689	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	1.70	0.002051	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	1.00	0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	0.90	0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	0.90	0.001086	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	0.80	0.000948	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	0.50	0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	-2.20	-0.002654	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-2.40	-0.002895	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	0.90	0.001086	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	0.10	0.000120	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	1.00	0.001195	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-2.10	-0.002510	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-2.10	-0.002510	±2.5	PASS

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Band5	10MHz	64QAM	20525	50RB#0	NV	40	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	1.50	0.001777	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	1.00	0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	0.40	0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	2.30	0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	0.40	0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	0.80	0.000965	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	0.90	0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.80	0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.30	0.000359	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.60	0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	1.40	0.001659	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.50	-0.000592	±2.5	PASS

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