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Appendix B.3

LTE Band 5



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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
Band5	1.4MHz	QPSK	20407	1RB#0	22.81	21.98	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.92	22.09	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.69	21.86	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.73	20.9	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.96	22.13	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23	22.17	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.86	22.03	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.82	20.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.89	22.06	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.98	22.15	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23	22.17	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22	21.17	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.15	21.32	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.93	21.1	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.79	20.96	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.77	19.94	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.1	21.27	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.11	21.28	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.96	21.13	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.88	20.05	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.03	21.2	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.23	21.4	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22	21.17	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.97	20.14	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.95	20.12	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	20.95	20.12	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.98	20.15	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.83	19	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.01	20.18	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.06	20.23	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.09	20.26	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.81	18.98	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.11	20.28	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.24	20.41	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.24	20.41	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.09	19.26	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	17.83	17	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	17.91	17.08	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	17.77	16.94	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	17.79	16.96	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	17.9	17.07	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	18.15	17.32	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	18.09	17.26	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	17.88	17.05	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	18.15	17.32	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	18.15	17.32	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	18.02	17.19	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	18.01	17.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.8	21.97	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.83	22	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.71	21.88	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.84	21.01	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.93	22.1	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.93	22.1	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.84	22.01	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.85	21.02	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.01	22.18	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23	22.17	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.94	22.11	38.45	PASS



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Band5	3MHz	QPSK	20635	15RB#0	22.03	21.2	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.78	20.95	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.04	21.21	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.83	21	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.83	20	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.03	21.2	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.18	21.35	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.04	21.21	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.89	20.06	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.09	21.26	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.18	21.35	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.08	21.25	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.05	20.22	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21	20.17	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.02	20.19	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.9	20.07	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.84	19.01	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.17	20.34	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.21	20.38	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.08	20.25	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.87	19.04	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.05	20.22	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.34	20.51	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.26	20.43	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.09	19.26	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	17.79	16.96	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	17.89	17.06	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	17.94	17.11	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	17.91	17.08	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	17.91	17.08	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	18.17	17.34	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	18	17.17	38.45	PASS



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Band5	3MHz	256QAM	20635	1RB#0	18.06	17.23	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	18.25	17.42	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	18.14	17.31	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	18.07	17.24	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.9	22.07	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.81	21.98	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.86	22.03	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.84	21.01	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.87	22.04	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.92	22.09	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.91	22.08	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.84	21.01	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.02	22.19	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.97	22.14	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.95	22.12	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.97	21.14	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.91	21.08	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.97	21.14	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.94	21.11	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.88	20.05	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.9	21.07	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.04	21.21	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.91	21.08	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.87	20.04	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.18	21.35	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.15	21.32	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.17	21.34	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.98	20.15	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.06	20.23	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.04	20.21	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	20.8	19.97	38.45	PASS



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Band5	5MHz	64QAM	20525	1RB#0	21.14	20.31	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.25	20.42	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.01	20.18	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.88	19.05	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.17	20.34	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.36	20.53	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.19	20.36	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.96	19.13	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	17.99	17.16	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	18.05	17.22	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	17.9	17.07	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	17.91	17.08	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	18.02	17.19	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	18.27	17.44	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	18.05	17.22	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	17.98	17.15	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	18.13	17.3	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	18.14	17.31	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	17.94	17.11	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	18.05	17.22	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.85	22.02	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.95	22.12	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.87	22.04	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.87	21.04	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.85	22.02	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.89	22.06	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.93	22.1	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.94	21.11	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.92	22.09	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.02	22.19	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.98	22.15	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.08	21.25	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.04	21.21	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.1	21.27	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.97	21.14	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.93	20.1	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.95	21.12	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.03	21.2	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.04	21.21	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.94	20.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.15	21.32	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.26	21.43	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.34	21.51	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.05	20.22	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.03	20.2	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.04	20.21	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.08	20.25	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.89	19.06	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.17	20.34	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.14	20.31	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.92	20.09	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.93	19.1	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.15	20.32	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.25	20.42	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.24	20.41	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.09	19.26	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	17.84	17.01	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	18.09	17.26	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	18.13	17.3	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	17.93	17.1	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	18.06	17.23	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	18.08	17.25	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	18.09	17.26	38.45	PASS



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Band5	10MHz	256QAM	20525	50RB#0	17.98	17.15	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	18.07	17.24	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	18.33	17.5	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	18.11	17.28	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	18.08	17.25	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
Band5	10MHz	QPSK	20450	50RB#0	5.26	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.12	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.14	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.78	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.86	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.66	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.32	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.34	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.84	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.58	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.76	13	PASS



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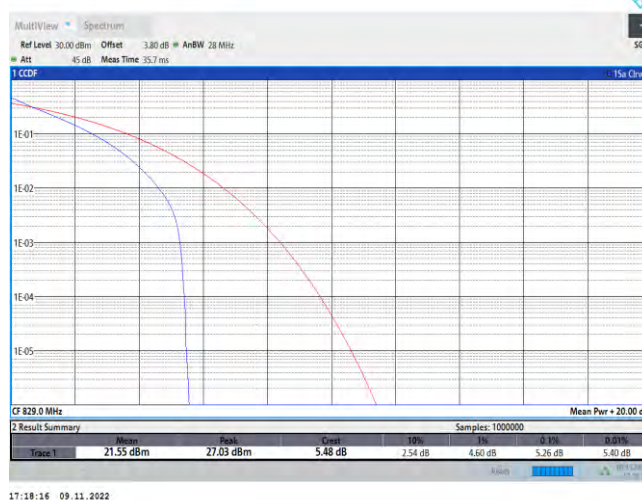
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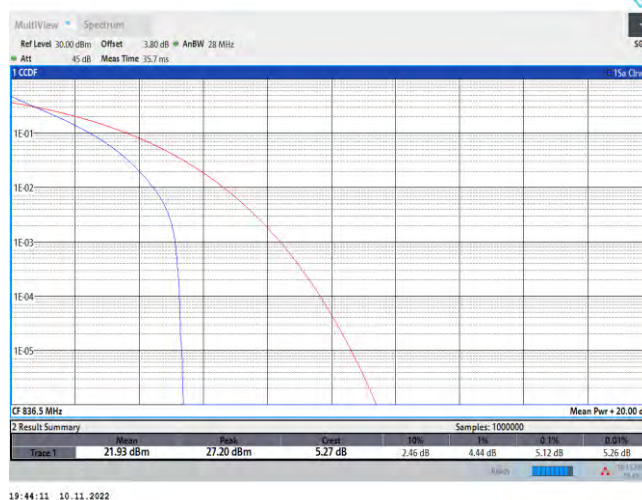
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Test Graphs

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



Band5-10MHz-QPSK-20525-50RB#0



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19:44:28 10.11.2022

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



17:18:33 09.11.2022



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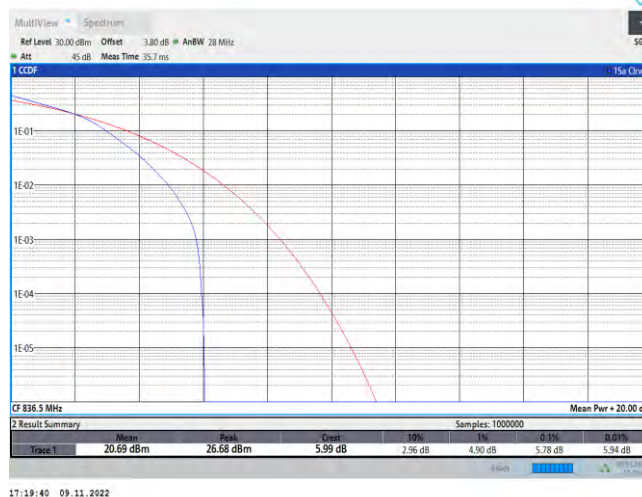
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Band5-10MHz-16QAM-20525-50RB#0



17:19:40 09.11.2022

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



17:20:48 09.11.2022



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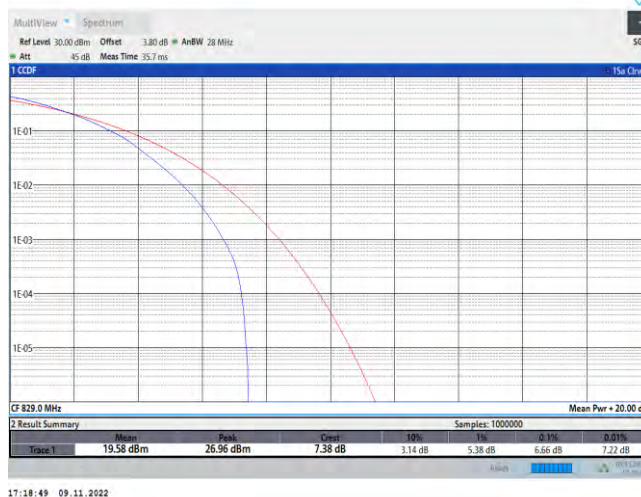
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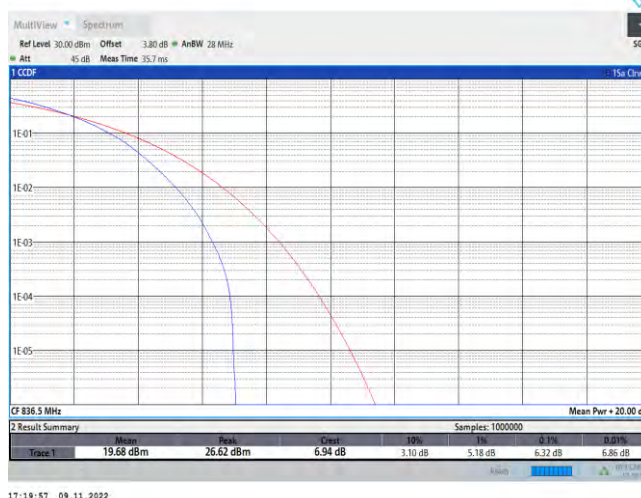
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Band5-10MHz-64QAM-20450-50RB#0



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



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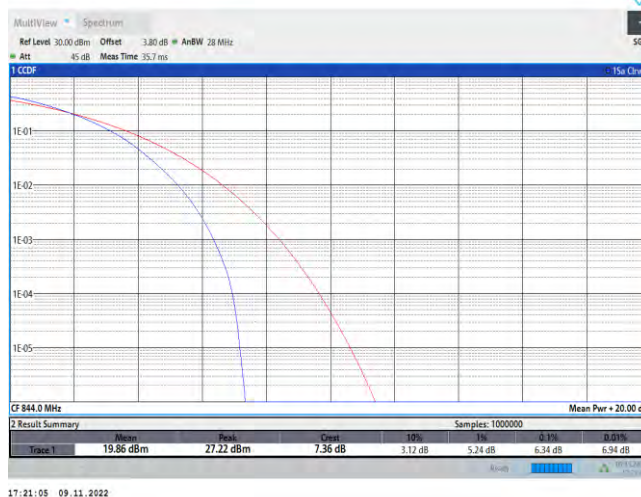
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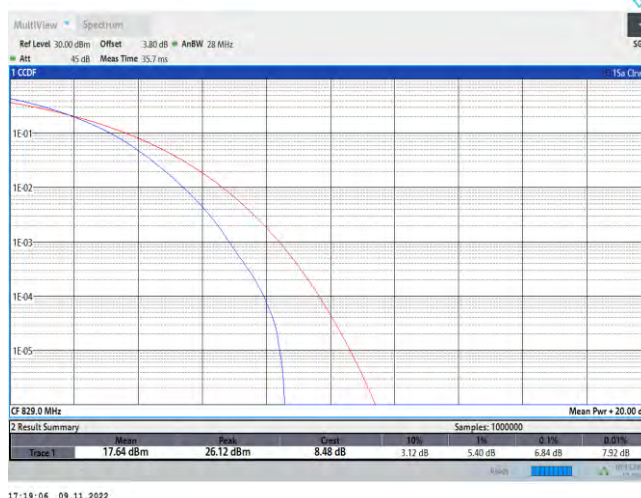
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Band5-10MHz-64QAM-20600-50RB#0



Band5-10MHz-256QAM-20450-50RB#0



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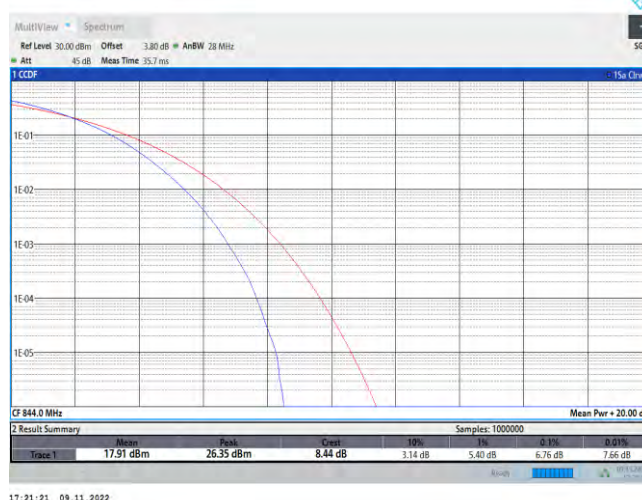
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Band5-10MHz-256QAM-20525-50RB#0



Band5-10MHz-256QAM-20600-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	256QAM	20525	50RB#0	PASS	PASS



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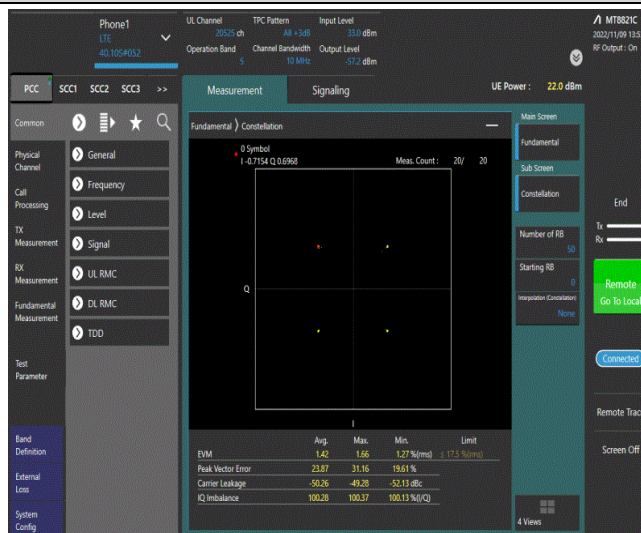
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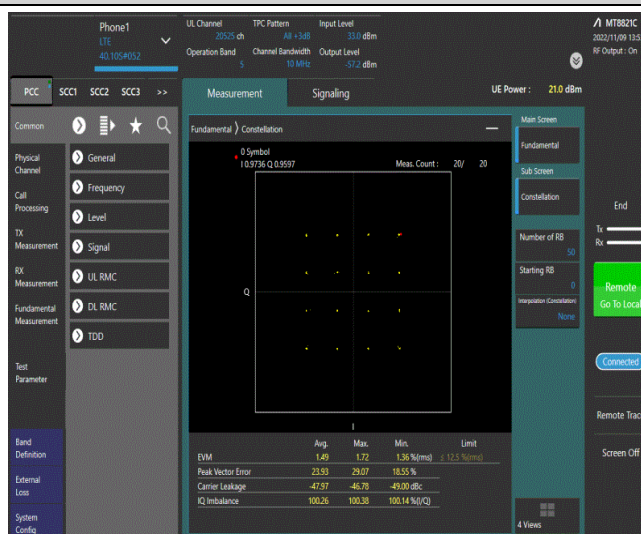
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Test Graphs

Band5-10MHz-QPSK-20525-50RB#0



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



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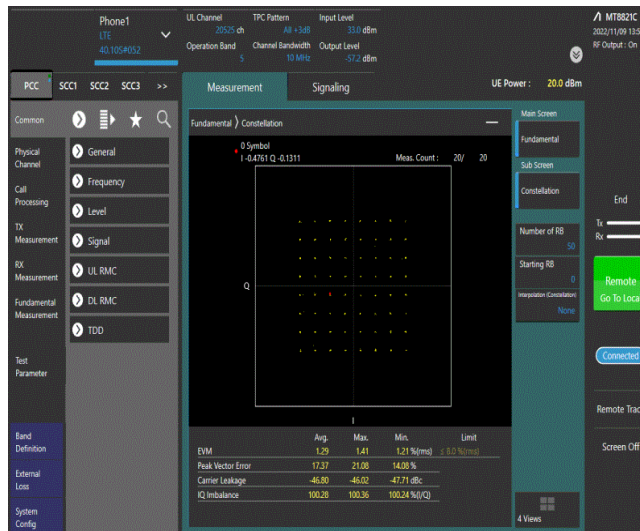
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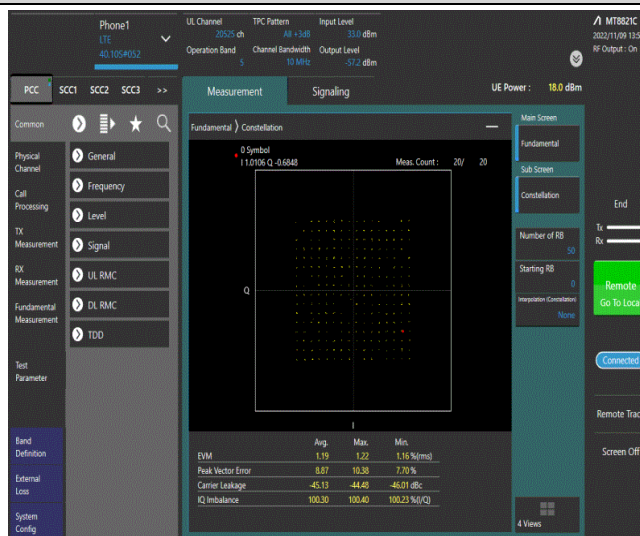
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Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-256QAM-20525-50RB#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
Band5	1.4MHz	QPSK	20407	6RB#0	1.106	1.40	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.107	1.39	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.108	1.44	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.11	1.39	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.106	1.39	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.113	1.40	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.108	1.41	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.106	1.38	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.109	1.48	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.104	1.37	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.106	1.40	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.105	1.38	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7	3.02	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.701	3.07	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.698	3.05	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7	3.05	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.701	3.07	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.699	3.03	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.698	3.04	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.7	3.07	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.698	3.04	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.695	3.08	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.694	3.05	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.701	3.04	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.479	4.99	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.473	5.03	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	5.00	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.483	5.05	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.474	5.02	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.478	5.03	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.478	5.06	PASS



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Band5	5MHz	64QAM	20525	25RB#0	4.478	5.03	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.478	5.06	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.473	5.04	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.471	5.06	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.477	5.04	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.964	9.94	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.909	9.70	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.959	9.96	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.953	9.78	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.922	9.72	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.969	9.82	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.953	9.86	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.933	9.76	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.949	9.80	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.957	9.88	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.907	9.78	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.955	9.80	PASS



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Test Graphs

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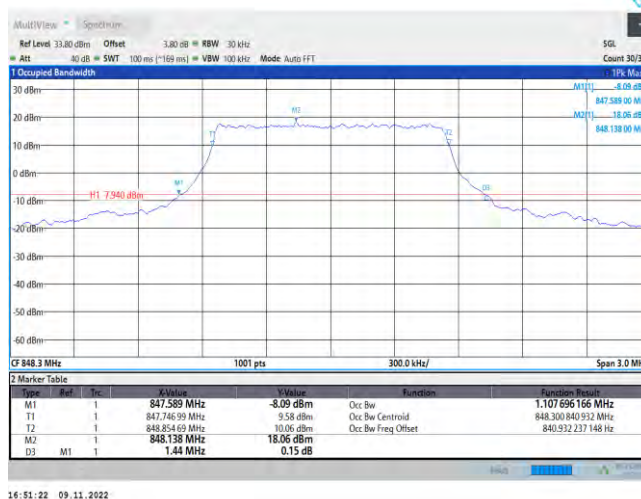
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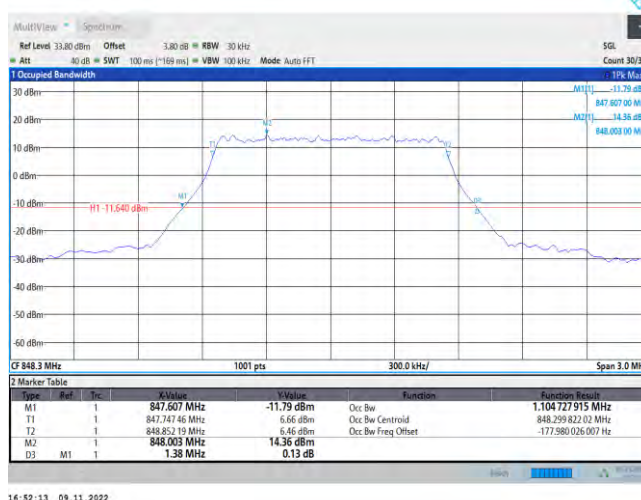
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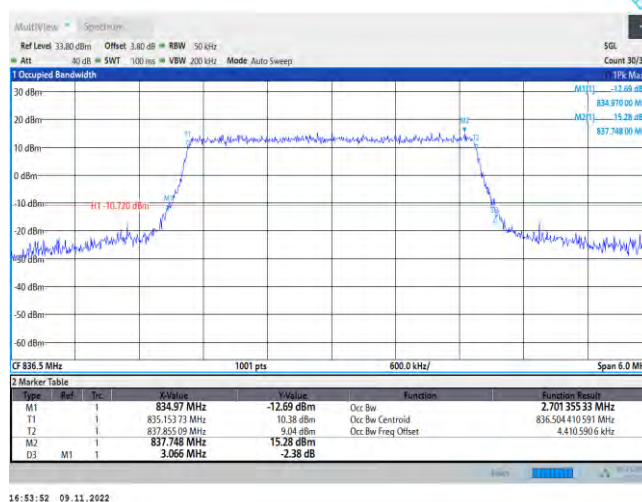
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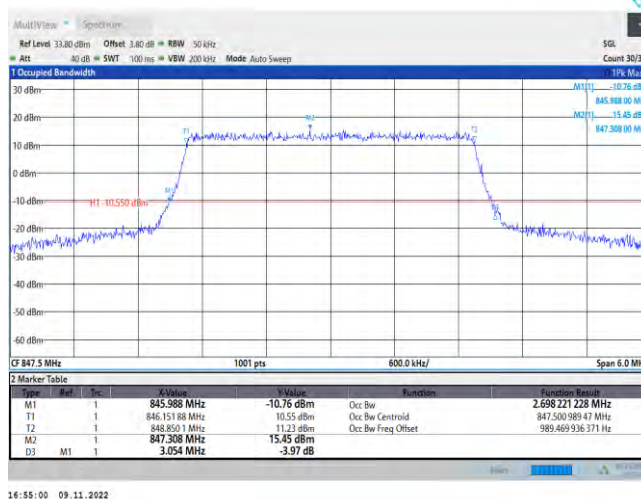
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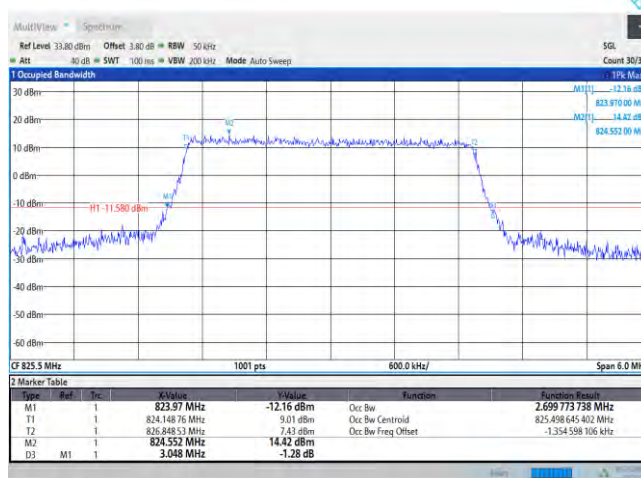
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Band5-3MHz-16QAM-20415-15RB#0



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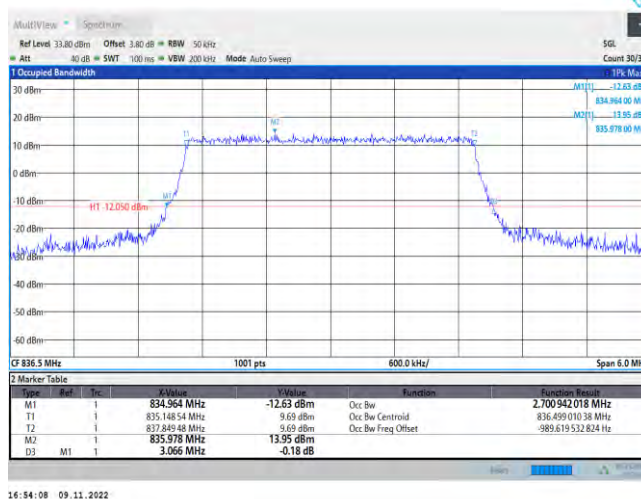
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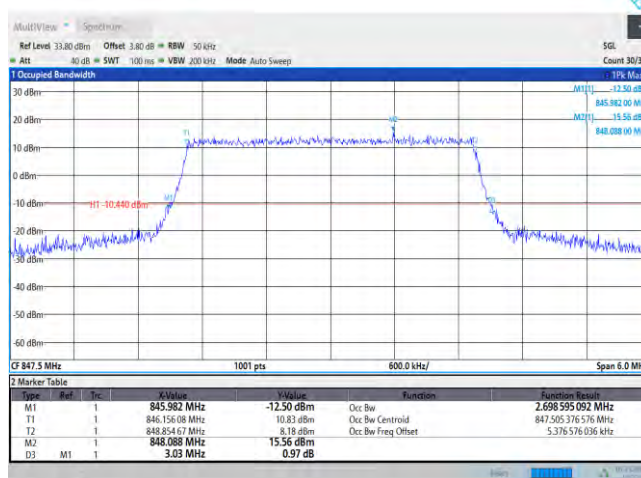
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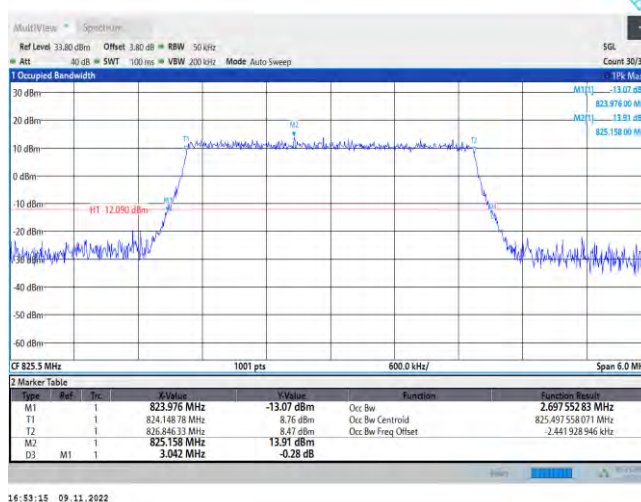
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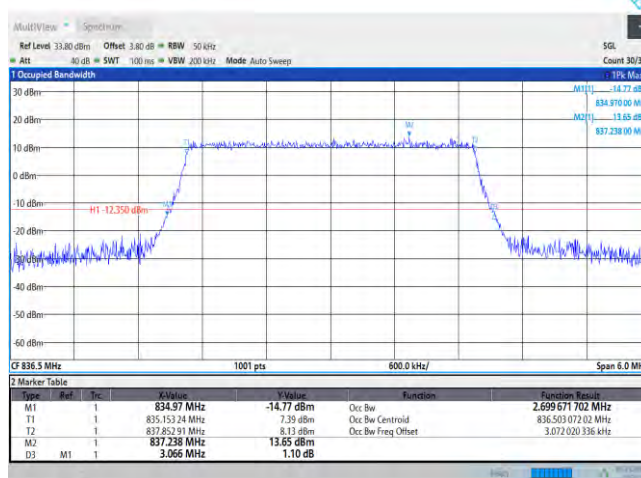
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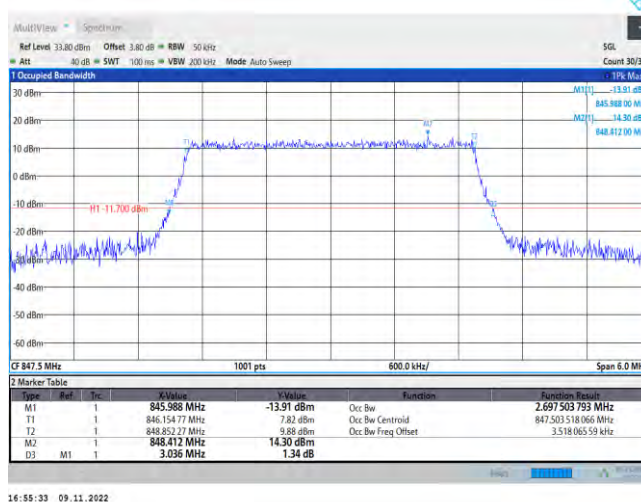
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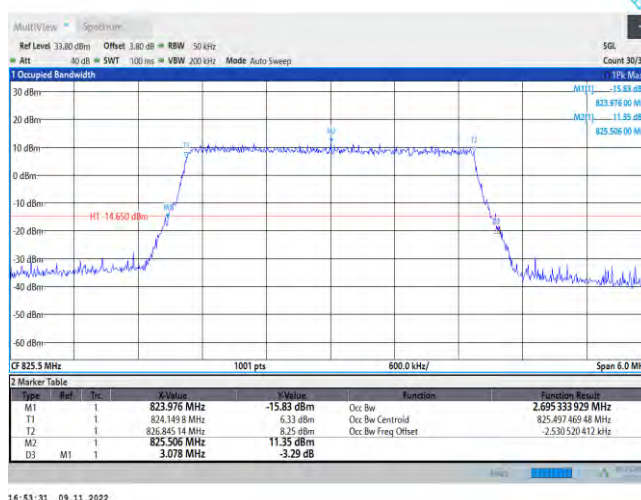
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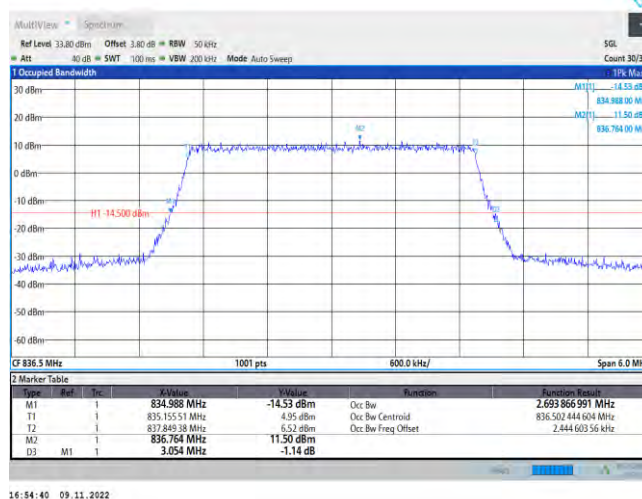
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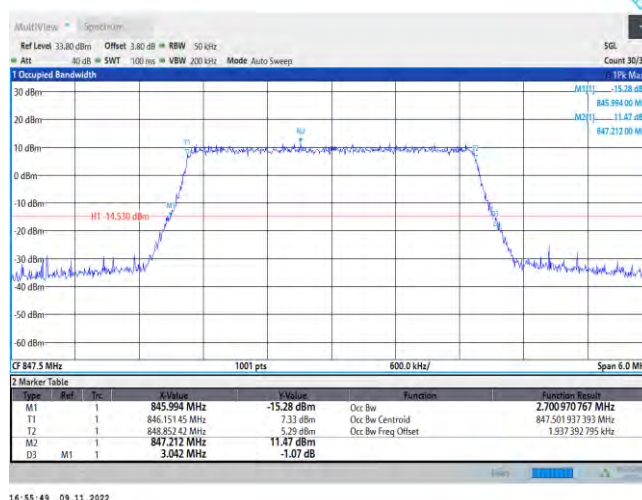
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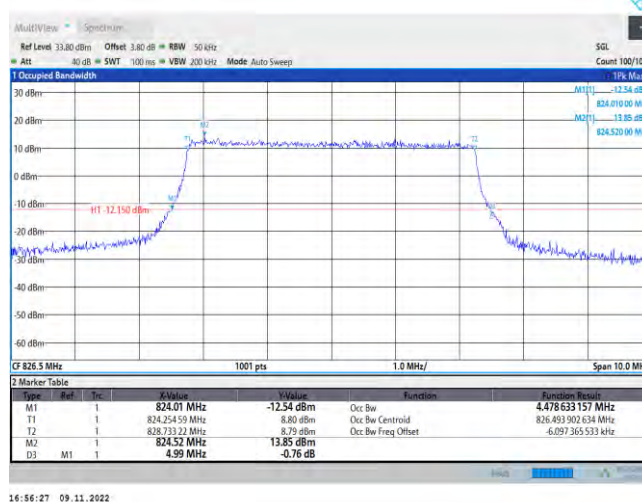
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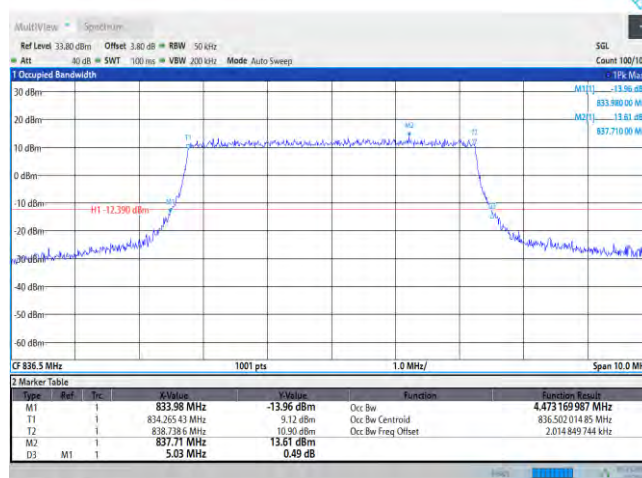
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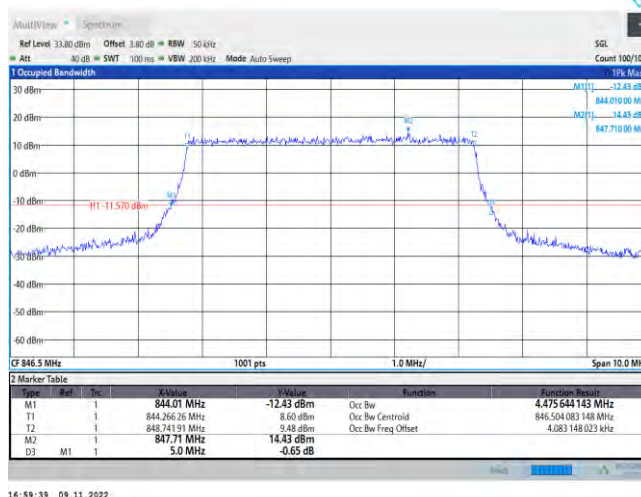
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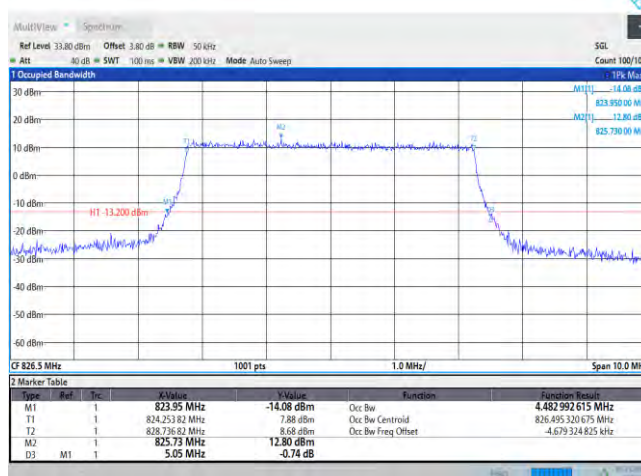
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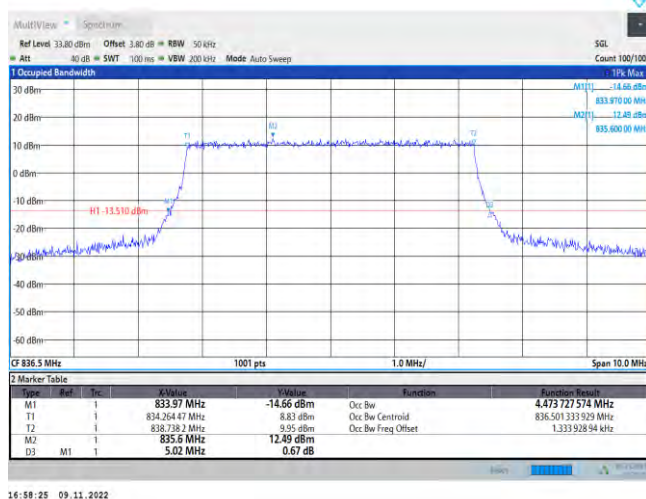
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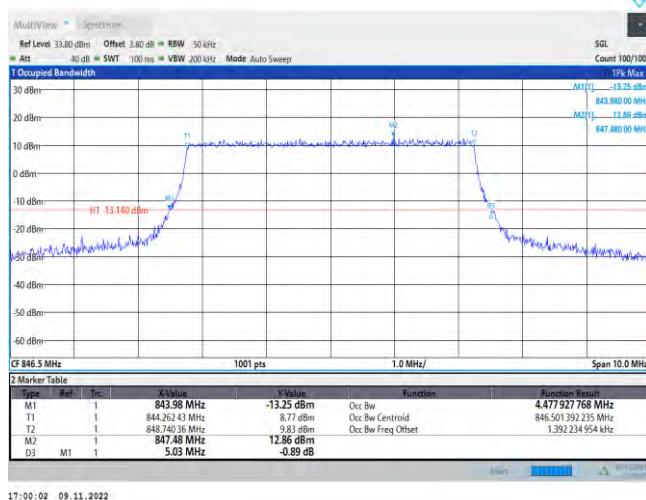
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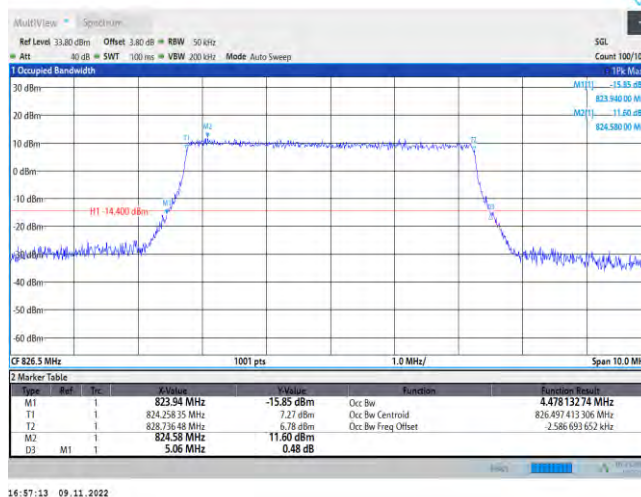
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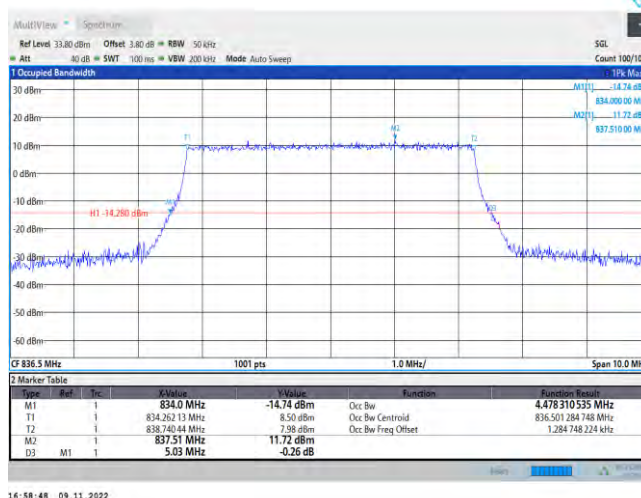
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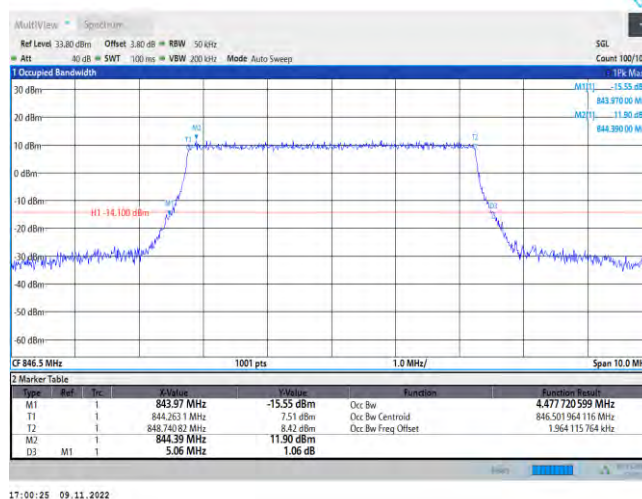
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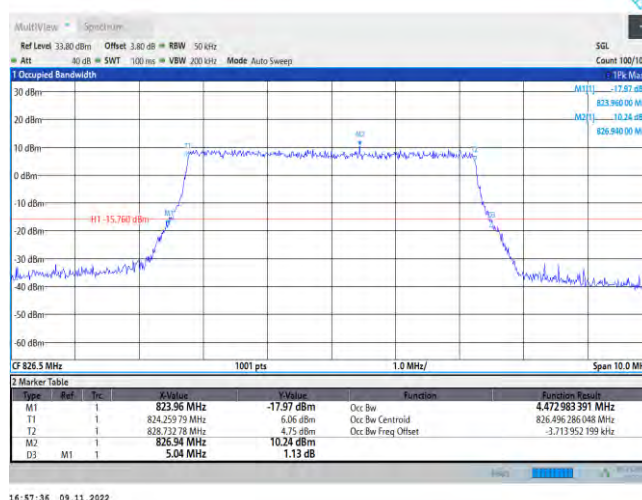
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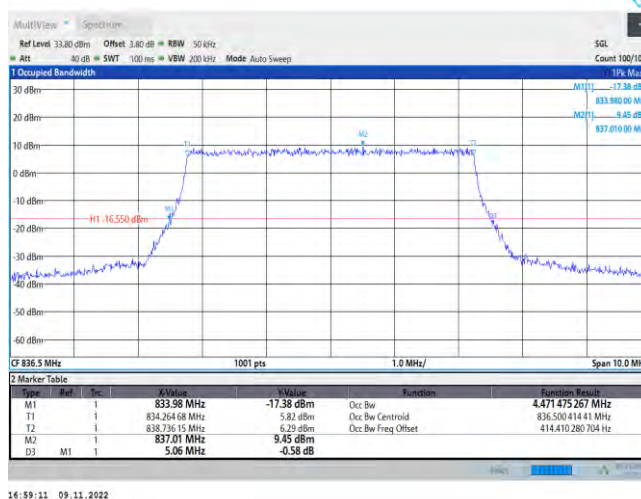
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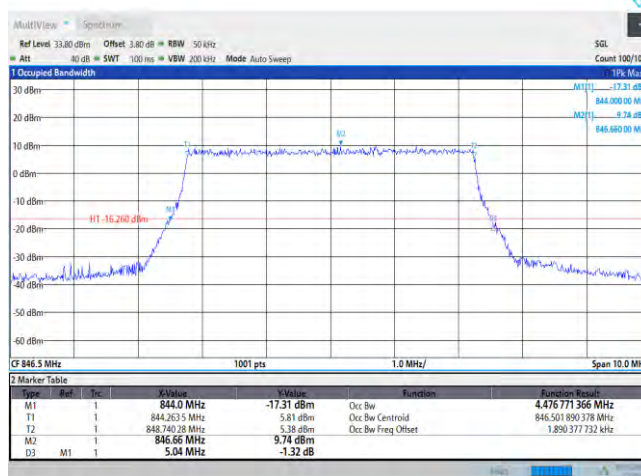
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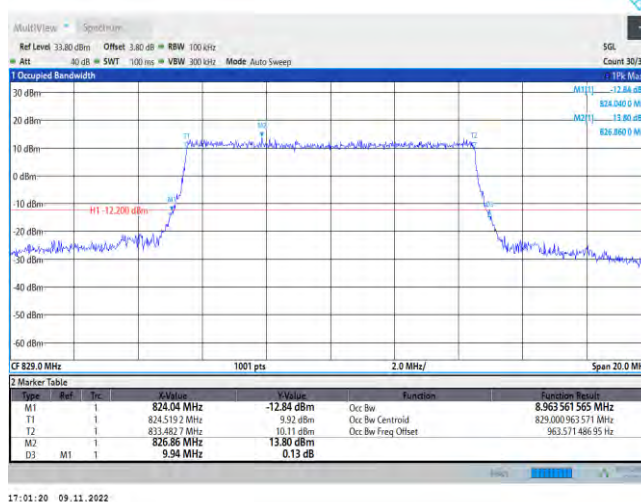
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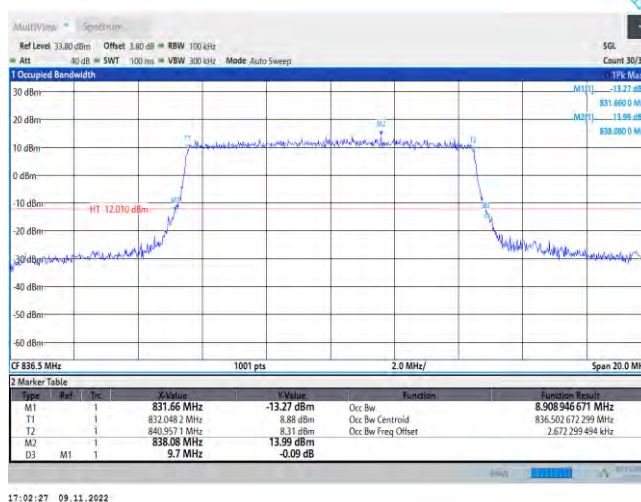
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Band5-10MHz-QPSK-20450-50RB#0



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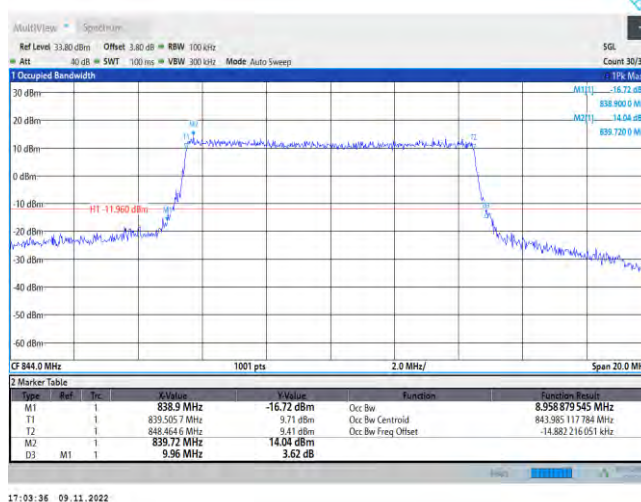
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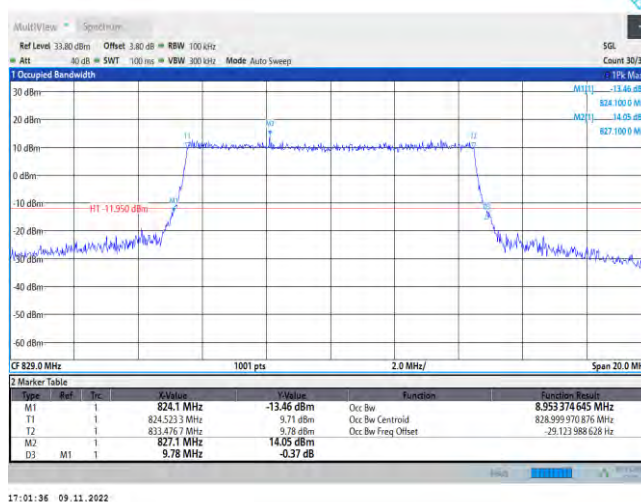
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Band5-10MHz-QPSK-20600-50RB#0



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



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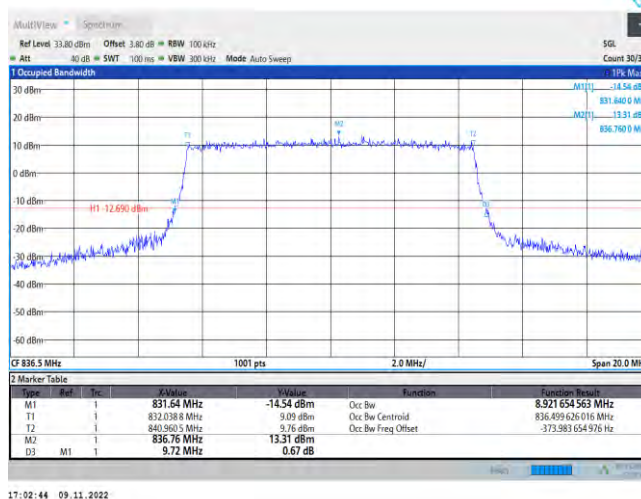
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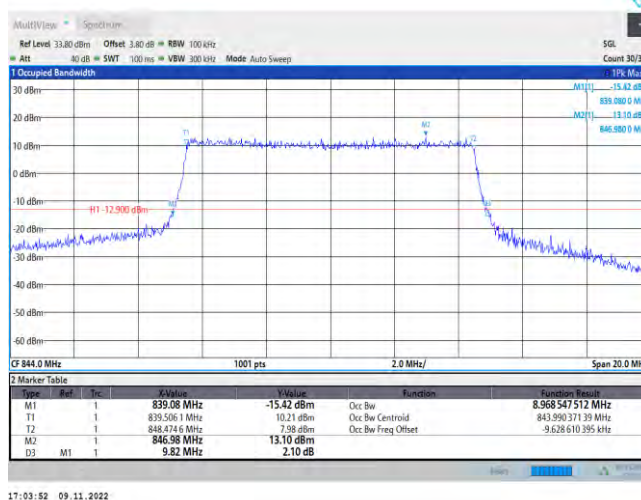
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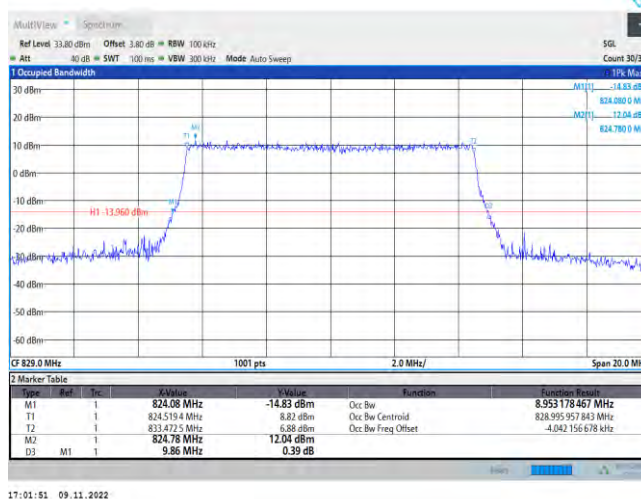
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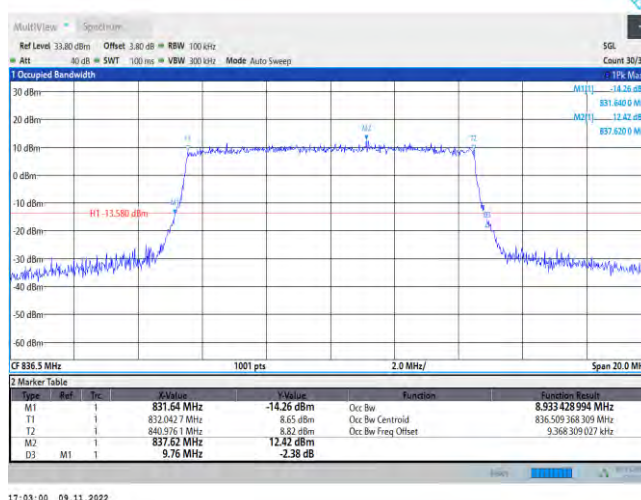
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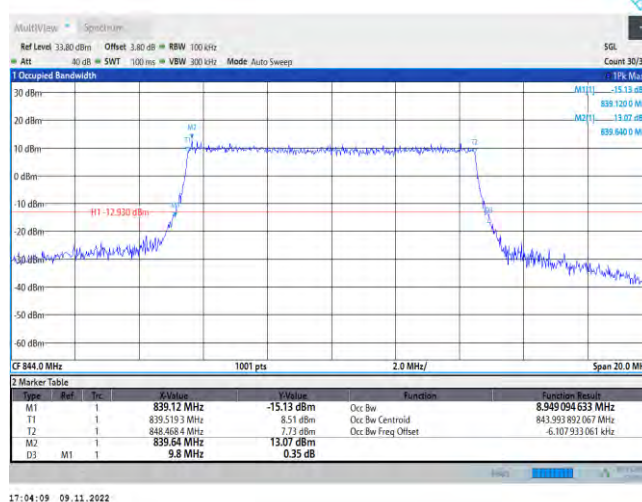
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Band5-10MHz-256QAM-20450-50RB#0



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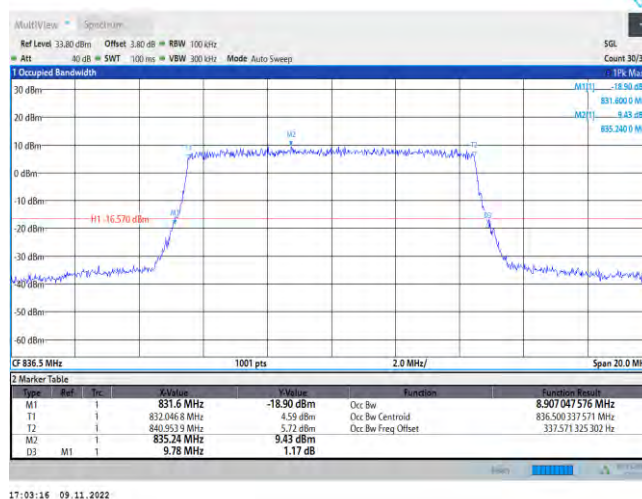
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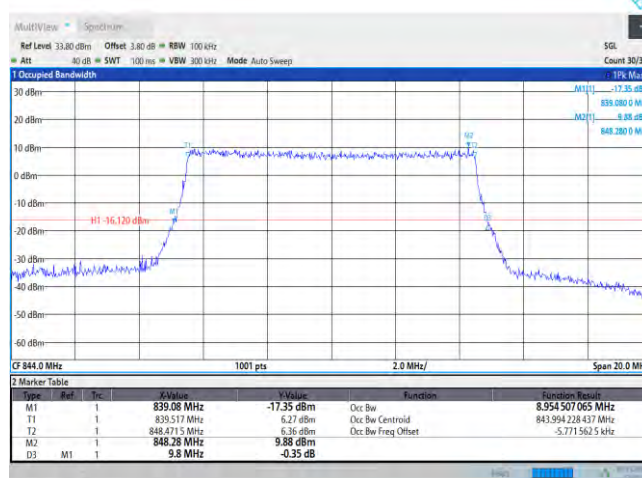
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Band5-10MHz-256QAM-20600-50RB#0



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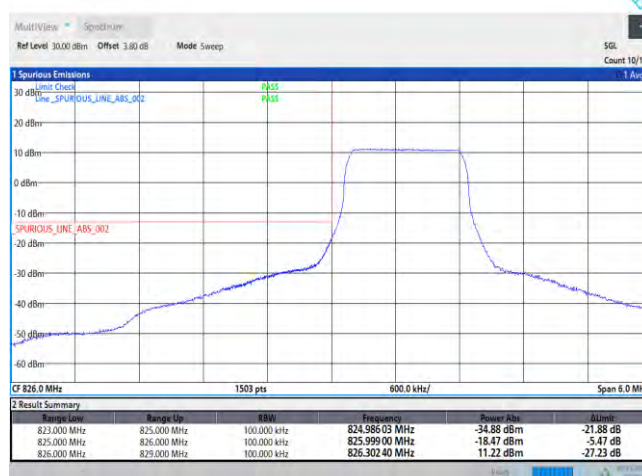
Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



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Band5-1.4MHz-QPSK-20427-6RB#0



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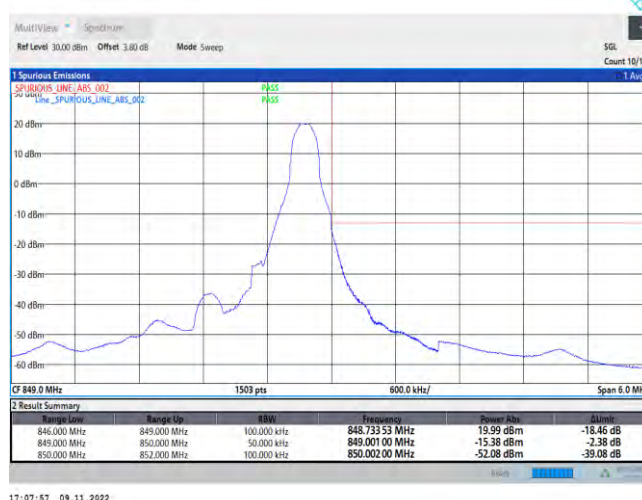
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Band5-1.4MHz-QPSK-20643-6RB#0



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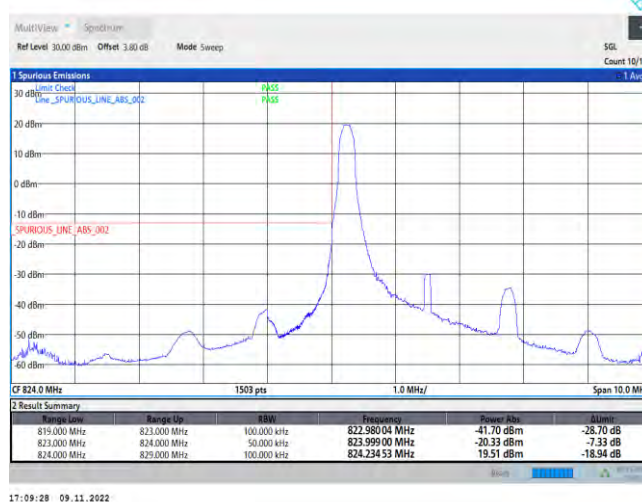
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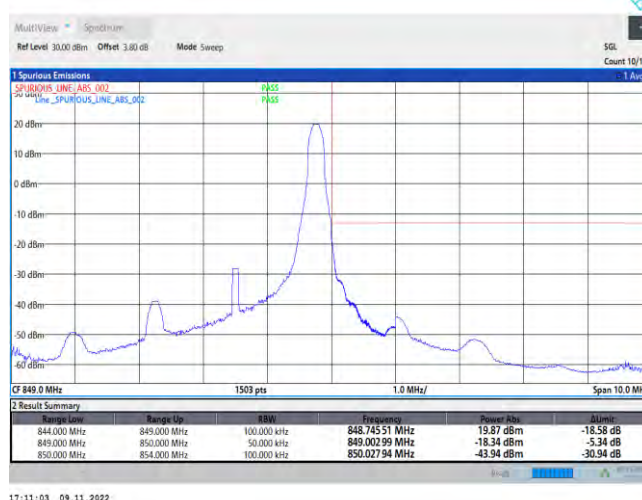
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Band5-3MHz-QPSK-20635-15RB#0



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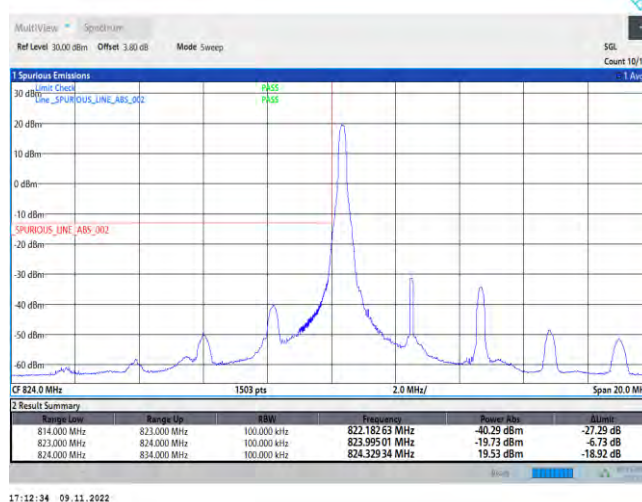
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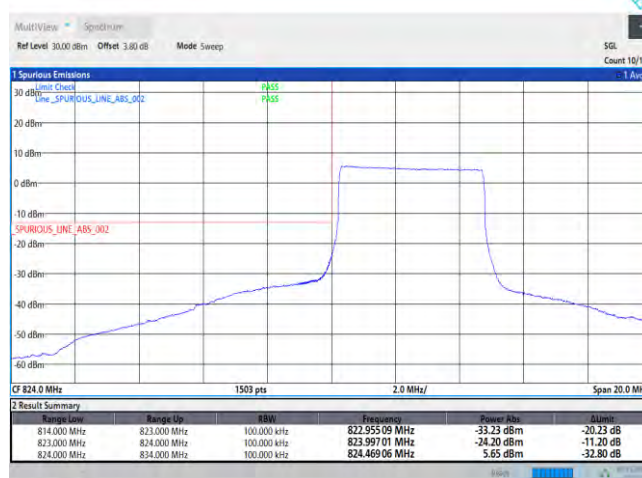
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Band5-5MHz-QPSK-20425-25RB#0



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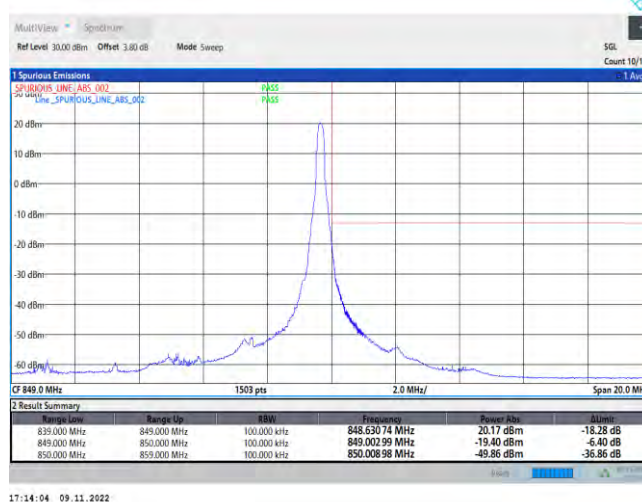
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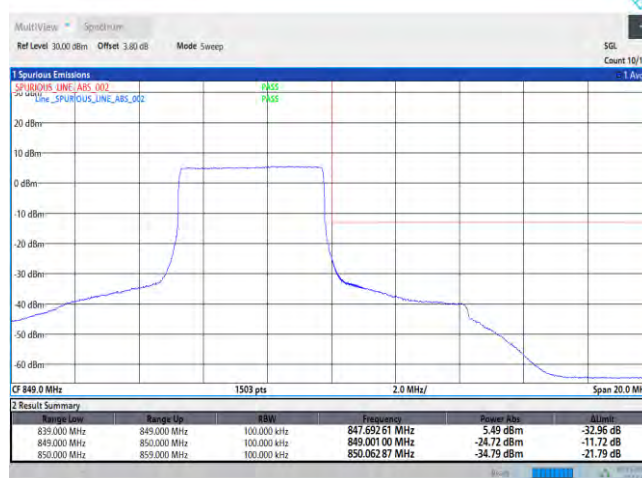
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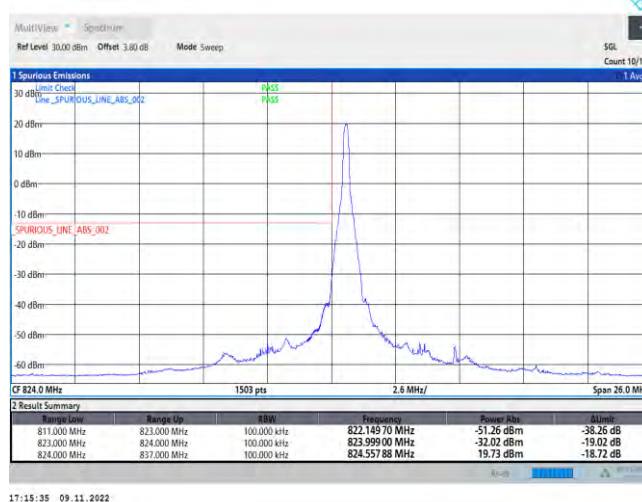
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Band5-10MHz-QPSK-20450-1RB#0



17:15:35 09.11.2022

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



17:16:12 09.11.2022



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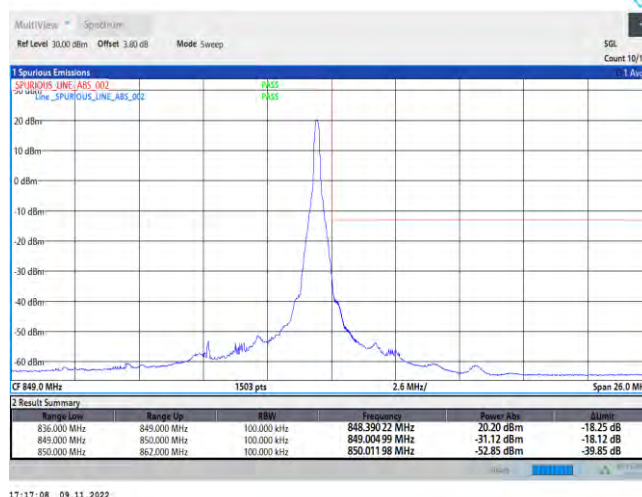
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Band5-10MHz-QPSK-20600-1RB#49



17:17:08 09.11.2022

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



17:17:45 09.11.2022



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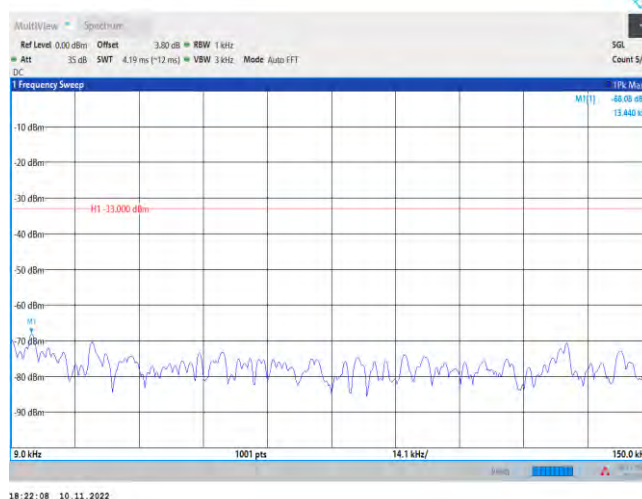
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Conducted Spurious Emission

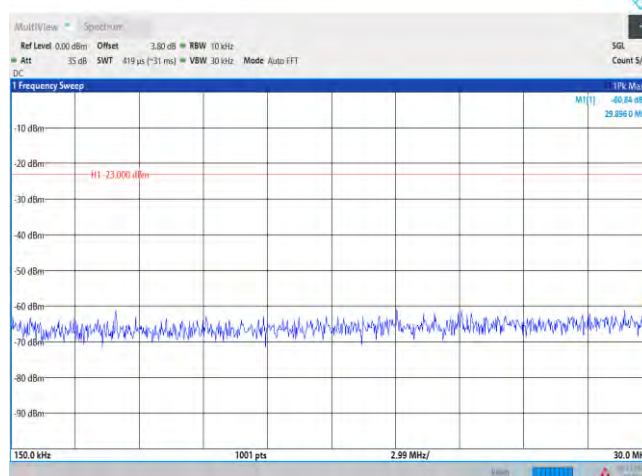
Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



18:22:08 10.11.2022

Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



18:22:11 10.11.2022



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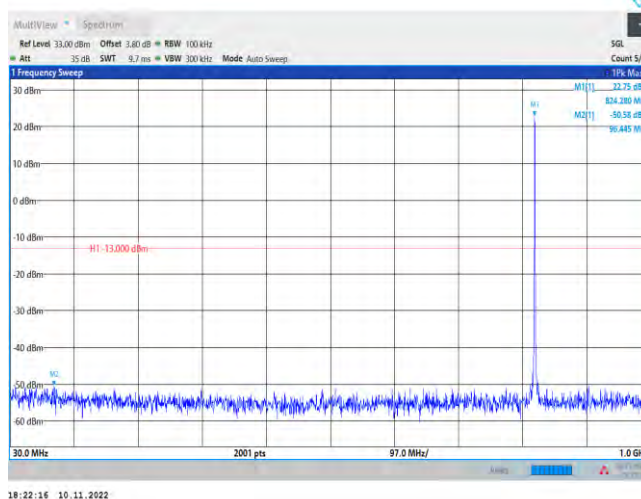
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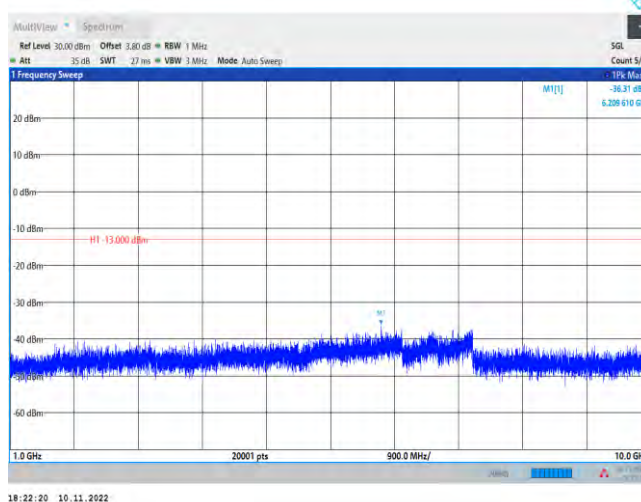
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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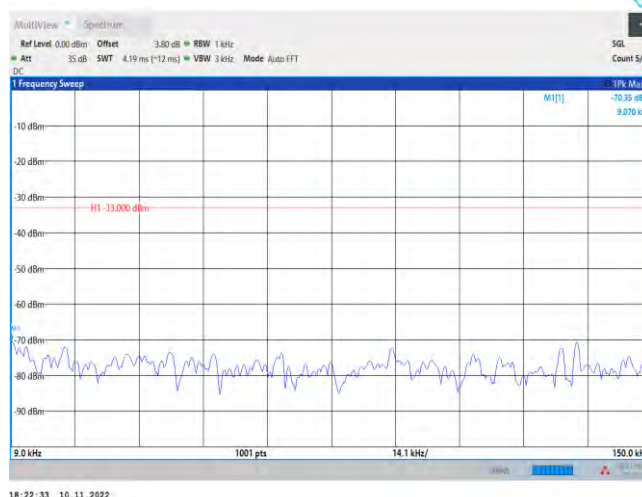
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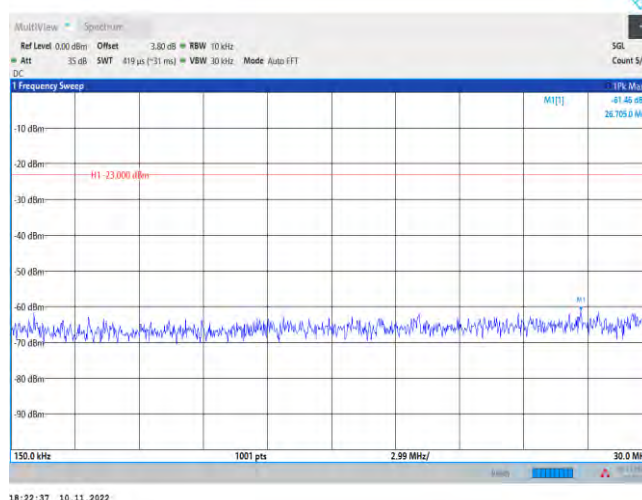
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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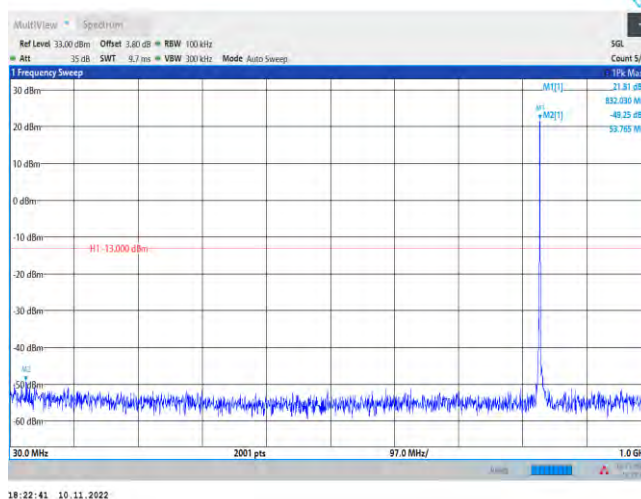
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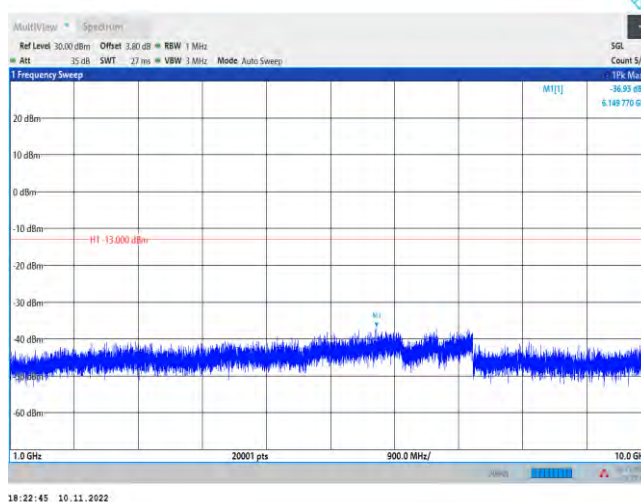
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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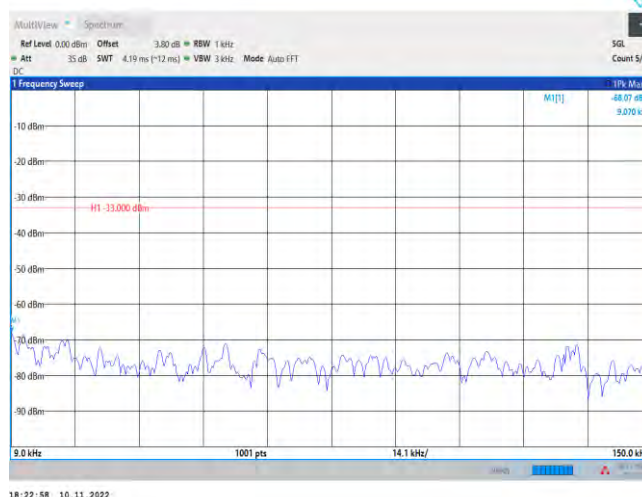
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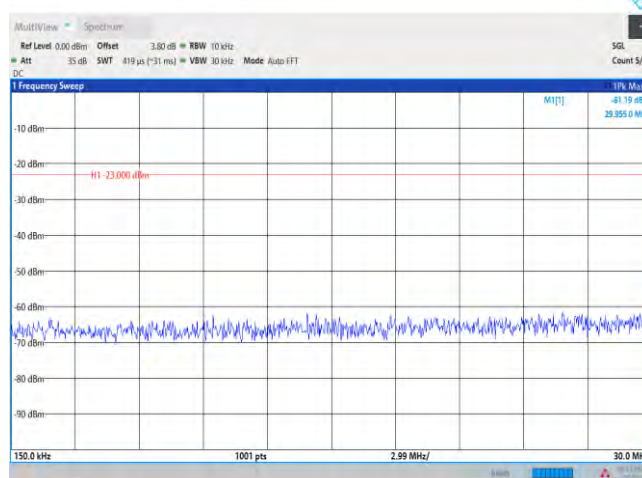
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



18:22:58 10.11.2022

Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



18:23:02 10.11.2022



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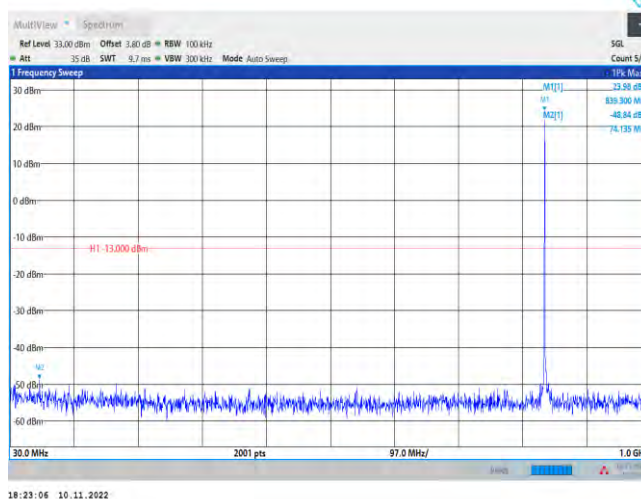
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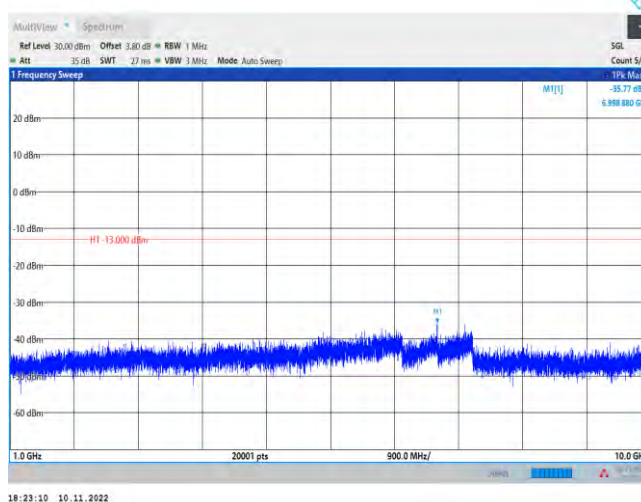
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_ 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	71.27	-48.38	25.58	-46.80	-13.00	33.80	263	360	Horizontal
2	2473.77	46.80	-46.96	27.85	-67.57	-13.00	54.57	254	295	Horizontal
3	3298.36	48.70	-46.11	29.48	-63.19	-13.00	50.19	142	148	Horizontal
4	4122.95	51.56	-45.34	30.80	-58.24	-13.00	45.24	285	340	Horizontal
5	4947.54	41.24	-45.08	32.48	-66.63	-13.00	53.63	296	324	Horizontal
6	5772.13	38.39	-43.52	33.47	-66.92	-13.00	53.92	224	58	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	67.19	-48.38	25.58	-50.88	-13.00	37.88	166	181	Vertical
2	4947.5	46.98	-45.08	32.47	-60.89	-13.00	47.89	295	242	Vertical
3	2473.77	47.14	-46.96	27.85	-67.23	-13.00	54.23	284	271	Vertical
4	3298.36	52.02	-46.11	29.48	-59.87	-13.00	46.87	142	19	Vertical
5	4122.95	53.19	-45.34	30.80	-56.61	-13.00	43.61	263	78	Vertical
6	5772.13	38.75	-43.52	33.47	-66.56	-13.00	53.56	245	138	Vertical



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Test Band = LTE Band 5_ 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	1664.18	71.41	-48.34	25.57	-46.62	-13.00	33.62	163	3	Horizontal
2	2496.27	46.09	-46.77	27.89	-68.05	-13.00	55.05	225	14	Horizontal
3	3328.36	47.26	-46.16	29.47	-64.69	-13.00	51.69	142	193	Horizontal
4	4160.45	48.43	-45.23	30.86	-61.20	-13.00	48.20	296	179	Horizontal
5	4992.54	40.81	-45.02	32.58	-66.89	-13.00	53.89	241	223	Horizontal
6	5824.63	39.88	-43.43	33.64	-65.17	-13.00	52.17	142	296	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	1664	68.26	-48.34	25.57	-49.77	-13.00	36.77	296	194	Vertical
2	2496.27	48.12	-46.77	27.89	-66.02	-13.00	53.02	265	135	Vertical
3	3328.36	50.76	-46.16	29.47	-61.19	-13.00	48.19	284	194	Vertical
4	4160.45	51.87	-45.23	30.86	-57.76	-13.00	44.76	142	106	Vertical
5	4992.54	43.77	-45.02	32.58	-63.93	-13.00	50.93	255	255	Vertical
6	5824.63	40.01	-43.43	33.64	-65.04	-13.00	52.04	263	286	Vertical



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Test Band = LTE Band 5_ 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	1679.18	74.08	-48.30	25.56	-43.92	-13.00	30.92	169	3	Horizontal
2	2518.77	46.44	-46.84	27.96	-67.69	-13.00	54.69	265	15	Horizontal
3	3358.36	46.43	-46.21	29.46	-65.58	-13.00	52.58	284	340	Horizontal
4	4197.95	51.35	-45.12	30.92	-58.11	-13.00	45.11	196	340	Horizontal
5	5037.54	40.38	-44.85	32.60	-67.13	-13.00	54.13	362	162	Horizontal
6	5887.13	38.60	-43.24	33.84	-66.06	-13.00	53.06	221	58	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	1679.18	66.89	-48.30	25.56	-51.11	-13.00	38.11	142	185	Vertical
2	2518.77	48.67	-46.84	27.96	-65.46	-13.00	52.46	263	260	Vertical
3	3358.36	51.64	-46.21	29.46	-60.37	-13.00	47.37	265	213	Vertical
4	4197.95	52.25	-45.12	30.92	-57.21	-13.00	44.21	295	96	Vertical
5	5037.54	42.61	-44.85	32.60	-64.90	-13.00	51.90	284	260	Vertical
6	5887.13	38.43	-43.24	33.84	-66.23	-13.00	53.23	144	289	Vertical



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Test Band = CA Band 5A-7A_ 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	1649.18	40.05	-25.29	25.58	-54.92	-25.00	29.92	185	329	Horizontal
2	2473.77	37.11	-24.01	27.85	-54.31	-25.00	29.31	263	118	Horizontal
3	3298.36	50.82	-45.88	29.48	-60.83	-25.00	35.83	265	349	Horizontal
4	5002.18	40.17	-44.92	32.60	-67.41	-25.00	42.41	241	126	Horizontal
5	7503.27	38.86	-41.59	36.51	-61.48	-25.00	36.48	142	105	Horizontal
6	10004.36	33.16	-37.13	38.50	-60.73	-25.00	35.73	255	360	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	1649.18	38.92	-25.29	25.58	-56.05	-25.00	31.05	142	338	Vertical
2	2473.77	37.47	-24.01	27.85	-53.95	-25.00	28.95	285	276	Vertical
3	3298.36	56.78	-45.88	29.48	-54.87	-25.00	29.87	263	208	Vertical
4	5002.18	40.54	-44.92	32.60	-67.04	-25.00	42.04	265	186	Vertical
5	7503.27	39.05	-41.59	36.51	-61.29	-25.00	36.29	241	314	Vertical
6	10004.36	34.30	-37.13	38.50	-59.59	-25.00	34.59	196	358	Vertical



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Test Band = CA Band 5A-7A_ 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	1664.18	39.11	-25.24	25.57	-55.82	-25.00	30.82	296	149	Horizontal
2	2496.27	37.86	-23.89	27.89	-53.40	-25.00	28.40	265	329	Horizontal
3	3328.36	49.26	-45.89	29.47	-62.43	-25.00	37.43	284	346	Horizontal
4	5052.18	41.57	-44.60	32.60	-65.69	-25.00	40.69	142	60	Horizontal
5	7578.27	38.35	-41.33	36.66	-61.59	-25.00	36.59	263	224	Horizontal
6	10104.36	33.71	-36.80	38.61	-59.73	-25.00	34.73	221	19	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	1664.18	38.80	-25.24	25.57	-56.13	-25.00	31.13	196	162	Vertical
2	2496.27	37.70	-23.89	27.89	-53.56	-25.00	28.56	265	300	Vertical
3	3328.36	51.14	-45.89	29.47	-60.55	-25.00	35.55	241	222	Vertical
4	5052.18	41.07	-44.60	32.60	-66.19	-25.00	41.19	142	3	Vertical
5	7578.27	37.90	-41.33	36.66	-62.04	-25.00	37.04	263	324	Vertical
6	10104.36	34.14	-36.80	38.61	-59.30	-25.00	34.30	221	98	Vertical



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Test Band = CA Band 5A-7A_ 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	1679.18	40.88	-25.19	25.56	-54.01	-25.00	29.01	196	329	Horizontal
2	2518.77	37.81	-23.91	27.96	-53.39	-25.00	28.39	265	170	Horizontal
3	3358.36	50.19	-45.91	29.46	-61.52	-25.00	36.52	241	357	Horizontal
4	5102.18	40.51	-44.29	32.60	-66.44	-25.00	41.44	142	186	Horizontal
5	7653.27	37.36	-41.30	36.81	-62.39	-25.00	37.39	255	229	Horizontal
6	10204.36	34.97	-36.56	38.72	-58.13	-25.00	33.13	286	41	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	1679.18	38.24	-25.19	25.56	-56.65	-25.00	31.65	196	203	Vertical
2	2518.77	37.86	-23.91	27.96	-53.34	-25.00	28.34	265	107	Vertical
3	3358.36	54.39	-45.91	29.46	-57.32	-25.00	32.32	284	356	Vertical
4	5102.18	41.30	-44.29	32.60	-65.65	-25.00	40.65	142	124	Vertical
5	7653.27	37.19	-41.30	36.81	-62.56	-25.00	37.56	263	267	Vertical
6	10204.36	35.61	-36.56	38.72	-57.49	-25.00	32.49	244	205	Vertical



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Test Band = CA Band 5A-12A_ 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	1399.18	47.19	-48.73	25.40	-71.40	-13.00	58.40	296	9	Horizontal
2	1649.18	59.90	-48.38	25.58	-58.17	-13.00	45.17	265	121	Horizontal
3	2098.77	42.91	-47.88	27.10	-73.13	-13.00	60.13	241	121	Horizontal
4	2473.77	45.21	-46.96	27.85	-69.16	-13.00	56.16	142	241	Horizontal
5	2798.36	42.73	-46.69	28.91	-70.30	-13.00	57.30	263	1	Horizontal
6	3298.36	49.23	-46.11	29.48	-62.66	-13.00	49.66	221	346	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	1399.18	45.84	-48.73	25.40	-72.75	-13.00	59.75	196	190	Vertical
2	1649.18	58.52	-48.38	25.58	-59.55	-13.00	46.55	265	339	Vertical
3	2098.77	43.18	-47.88	27.10	-72.86	-13.00	59.86	284	247	Vertical
4	2473.77	47.76	-46.96	27.85	-66.61	-13.00	53.61	174	145	Vertical
5	2798.36	42.04	-46.69	28.91	-70.99	-13.00	57.99	142	233	Vertical
6	3298.36	52.88	-46.11	29.48	-59.01	-13.00	46.01	263	348	Vertical



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Test Band = CA Band 5A-12A_ 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	1406.18	45.57	-48.71	25.41	-73.00	-13.00	60.00	296	23	Horizontal
2	1664.18	59.01	-48.34	25.57	-59.02	-13.00	46.02	265	157	Horizontal
3	2109.27	43.43	-47.87	27.12	-72.58	-13.00	59.58	284	200	Horizontal
4	2496.27	45.97	-46.77	27.89	-68.17	-13.00	55.17	142	5	Horizontal
5	2812.36	42.86	-46.70	28.96	-70.13	-13.00	57.13	256	127	Horizontal
6	3328.36	47.78	-46.16	29.47	-64.17	-13.00	51.17	263	346	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	1406.18	45.04	-48.71	25.41	-73.53	-13.00	60.53	142	359	Vertical
2	1664.18	59.69	-48.34	25.57	-58.34	-13.00	45.34	285	132	Vertical
3	2109.27	43.64	-47.87	27.12	-72.37	-13.00	59.37	263	236	Vertical
4	2496.27	48.45	-46.77	27.89	-65.69	-13.00	52.69	265	322	Vertical
5	2812.36	42.37	-46.70	28.96	-70.62	-13.00	57.62	241	251	Vertical
6	3328.36	50.39	-46.16	29.47	-61.56	-13.00	48.56	142	360	Vertical



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Test Band = CA Band 5A-12A_ 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	1413.18	45.17	-48.70	25.41	-73.37	-13.00	60.37	263	126	Horizontal
2	1679.18	57.96	-48.30	25.56	-60.04	-13.00	47.04	296	2	Horizontal
3	2119.77	44.20	-47.85	27.14	-71.77	-13.00	58.77	265	53	Horizontal
4	2518.77	46.41	-46.84	27.96	-67.72	-13.00	54.72	241	53	Horizontal
5	2826.36	42.67	-46.71	29.01	-70.29	-13.00	57.29	142	156	Horizontal
6	3358.36	48.85	-46.21	29.46	-63.16	-13.00	50.16	287	346	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	1413.18	45.01	-48.70	25.41	-73.53	-13.00	60.53	196	206	Vertical
2	1679.18	58.43	-48.30	25.56	-59.57	-13.00	46.57	265	249	Vertical
3	2119.77	43.99	-47.85	27.14	-71.98	-13.00	58.98	284	192	Vertical
4	2518.77	50.91	-46.84	27.96	-63.22	-13.00	50.22	142	264	Vertical
5	2826.36	42.95	-46.71	29.01	-70.01	-13.00	57.01	263	294	Vertical
6	3358.36	53.09	-46.21	29.46	-58.92	-13.00	45.92	254	355	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.90	-0.002271	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.90	0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.30	-0.001554	±2.5	PASS

---End of Attachment---



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