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Appendix B.4

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	24.54	27.22	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.12	26.8	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.52	27.2	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.78	26.46	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.12	26.8	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.36	27.04	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.52	27.2	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.79	26.47	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.12	26.8	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.49	27.17	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.63	27.31	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.8	26.48	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.95	26.63	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.87	26.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.94	26.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.93	25.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.77	26.45	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.93	26.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.81	26.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.82	25.5	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.81	26.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	24.02	26.7	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.8	26.48	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.84	25.52	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.96	25.64	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	23.09	25.77	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.94	25.62	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	21.87	24.55	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.89	25.57	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.85	25.53	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.94	25.62	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.85	24.53	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.92	25.6	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.87	25.55	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.96	25.64	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.85	24.53	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	19.91	22.59	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	20.03	22.71	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	19.79	22.47	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	19.86	22.54	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	19.8	22.48	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	19.92	22.6	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.86	22.54	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	19.81	22.49	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	19.77	22.45	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.9	22.58	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.89	22.57	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	19.81	22.49	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.13	26.81	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.58	27.26	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.52	27.2	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.88	26.56	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.31	26.99	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.45	27.13	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.36	27.04	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.78	26.46	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.22	26.9	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.52	27.2	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.31	26.99	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.87	26.55	38.45	PASS



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Band5	3MHz	16QAM	20415	1RB#0	23.83	26.51	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.97	26.65	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.88	26.56	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.89	25.57	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.05	26.73	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.96	26.64	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.04	26.72	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.79	25.47	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.89	26.57	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	24.05	26.73	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.88	26.56	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.86	25.54	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.86	25.54	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	23.01	25.69	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	23.01	25.69	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.88	24.56	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	23.09	25.77	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	23.05	25.73	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.94	25.62	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.78	24.46	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.88	25.56	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	23.1	25.78	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.93	25.61	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.87	24.55	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.91	22.59	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.86	22.54	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	19.85	22.53	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	19.9	22.58	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	19.78	22.46	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	19.86	22.54	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	19.98	22.66	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	19.74	22.42	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	19.81	22.49	38.45	PASS



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Band5	3MHz	256QAM	20635	1RB#14	19.99	22.67	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	19.85	22.53	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.52	27.2	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.64	27.32	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.52	27.2	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.87	26.55	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.36	27.04	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.12	26.8	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.36	27.04	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.83	26.51	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.31	26.99	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.49	27.17	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.52	27.2	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.76	26.44	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.97	26.65	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.79	26.47	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.89	26.57	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.86	25.54	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.99	26.67	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.96	26.64	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	24.03	26.71	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.84	25.52	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	24.12	26.8	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.92	26.6	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.98	26.66	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.8	25.48	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	23.01	25.69	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	23.09	25.77	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	23.08	25.76	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.94	24.62	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.89	25.57	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.98	25.66	38.45	PASS



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Band5	5MHz	64QAM	20525	25RB#0	21.82	24.5	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	23	25.68	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	23	25.68	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.9	25.58	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.78	24.46	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	19.85	22.53	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	20.07	22.75	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.86	22.54	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	19.87	22.55	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.93	22.61	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.87	22.55	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	19.97	22.65	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	19.79	22.47	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.94	22.62	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.91	22.59	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	19.95	22.63	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	19.75	22.43	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.36	27.04	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.51	27.19	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.59	27.27	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.91	26.59	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.15	26.83	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.31	26.99	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.41	27.09	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.79	26.47	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.36	27.04	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.49	27.17	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.32	27	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.91	26.59	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	24	26.68	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.95	26.63	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.9	26.58	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	22.9	25.58	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.82	26.5	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.99	26.67	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.83	26.51	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.84	25.52	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	24.02	26.7	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.96	26.64	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.84	26.52	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.92	25.6	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	23.11	25.79	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	23.13	25.81	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.76	25.44	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.88	24.56	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.98	25.66	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.96	25.64	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	23.06	25.74	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.84	24.52	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	23.28	25.96	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.97	25.65	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	23.08	25.76	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.89	24.57	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	19.9	22.58	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	19.95	22.63	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	19.94	22.62	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	19.85	22.53	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	19.68	22.36	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	19.99	22.67	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	20.08	22.76	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	19.81	22.49	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	19.93	22.61	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	20.03	22.71	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	19.9	22.58	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	19.88	22.56	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	4.56	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.38	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.86	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.52	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.74	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.78	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.22	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	5.96	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.38	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.54	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.58	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.60	13	PASS



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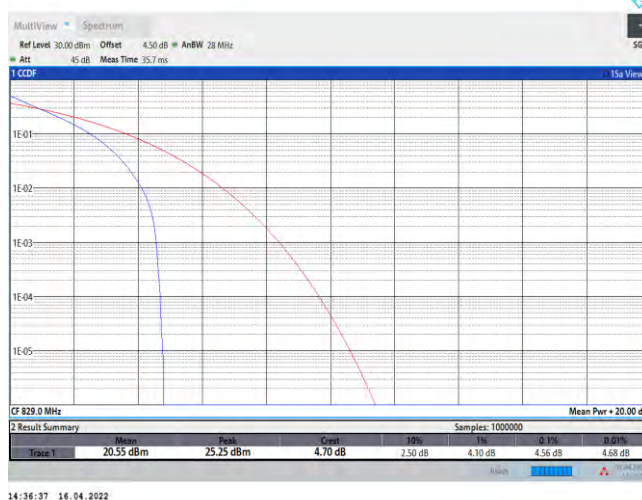
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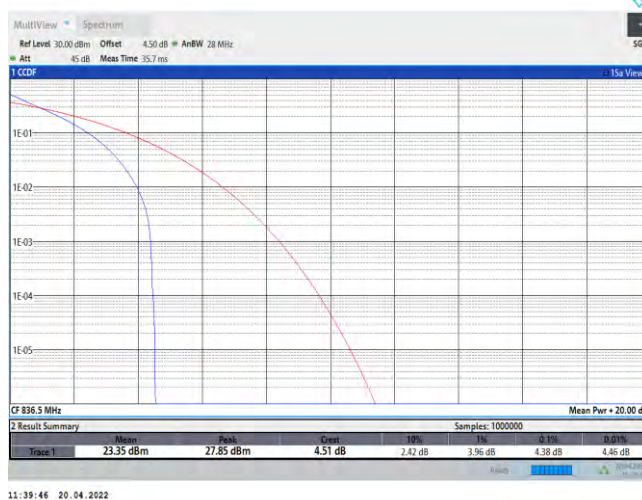
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Test Graphs

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



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



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



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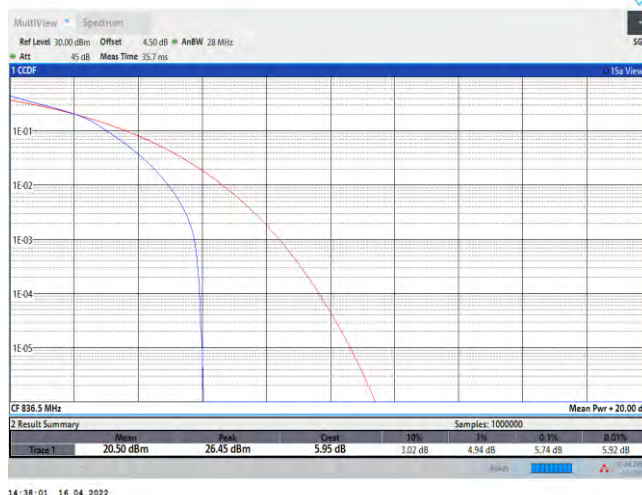
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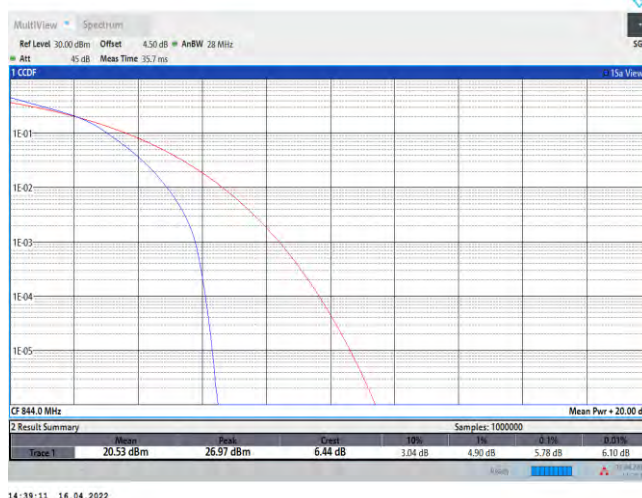
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Band5-10MHz-16QAM-20525-50RB#0



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



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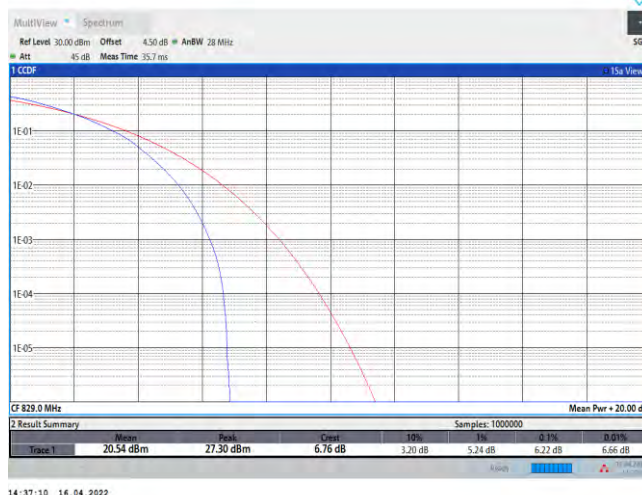
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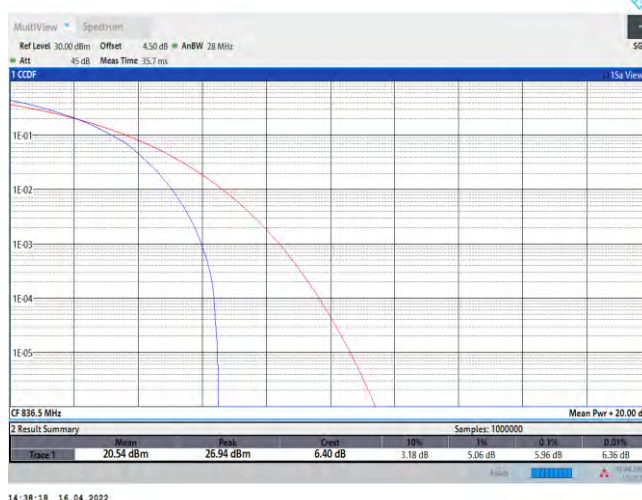
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Band5-10MHz-64QAM-20450-50RB#0



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



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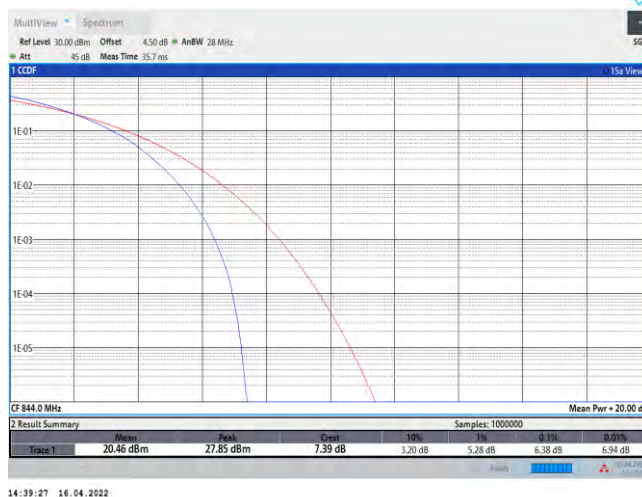
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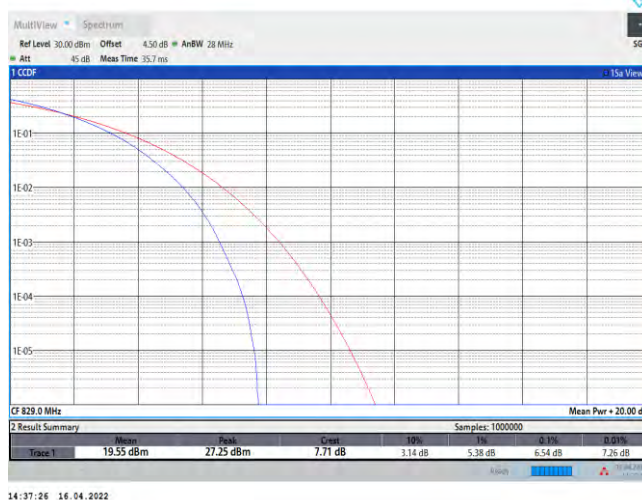
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Band5-10MHz-64QAM-20600-50RB#0



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



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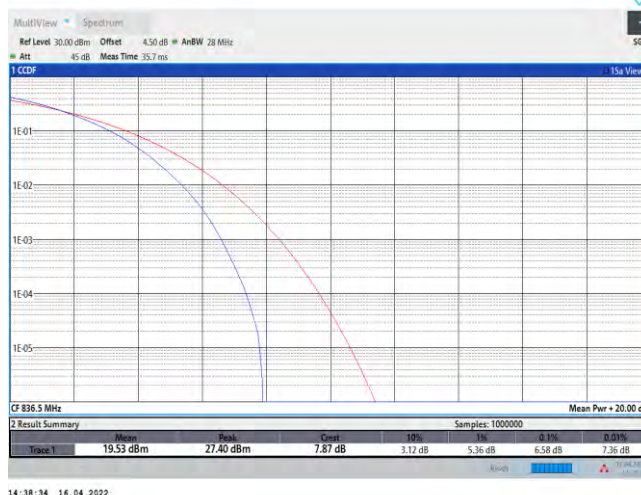
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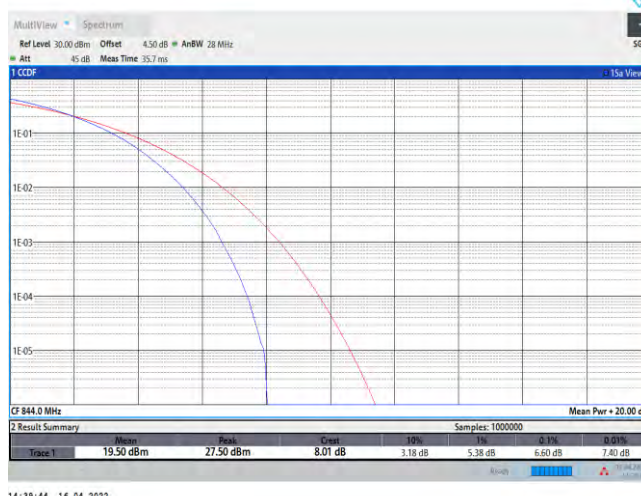
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Band5-10MHz-256QAM-20600-50RB#0



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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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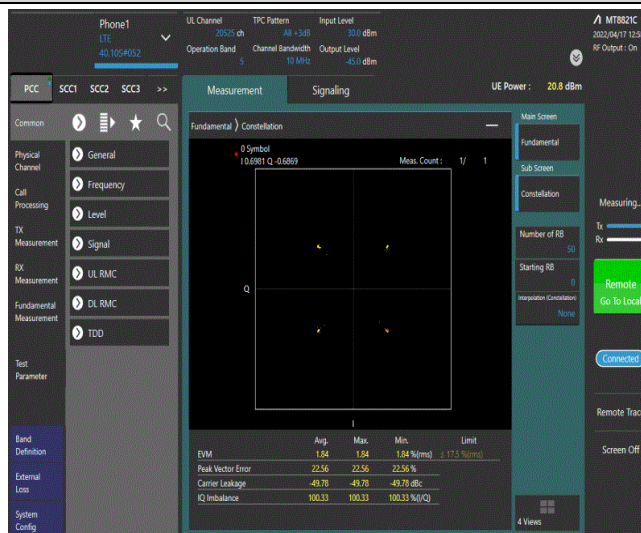
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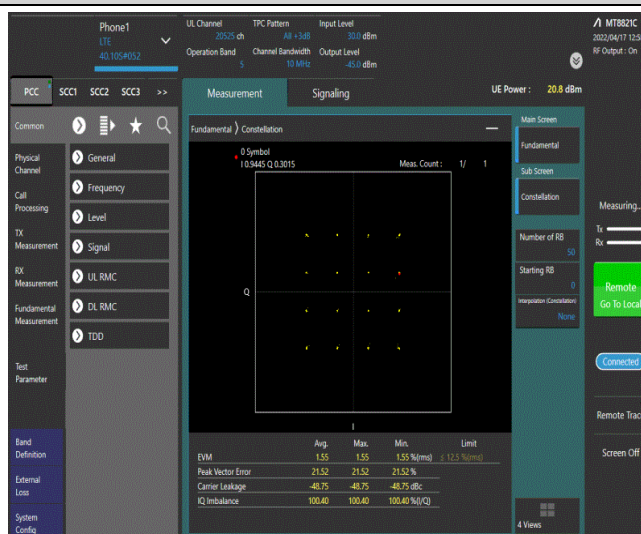
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Test Graphs

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



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



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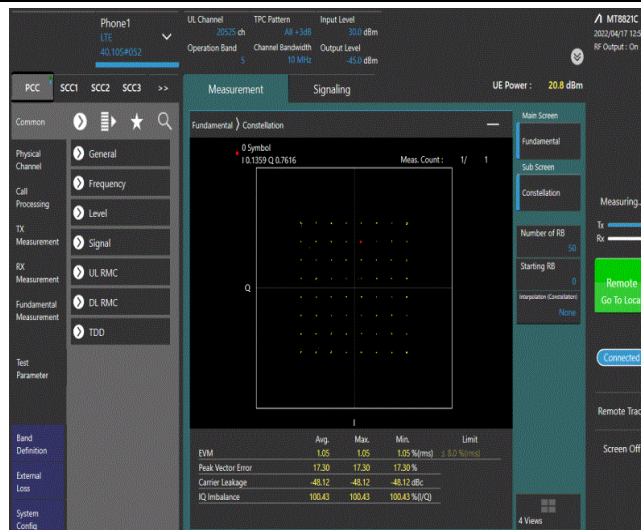
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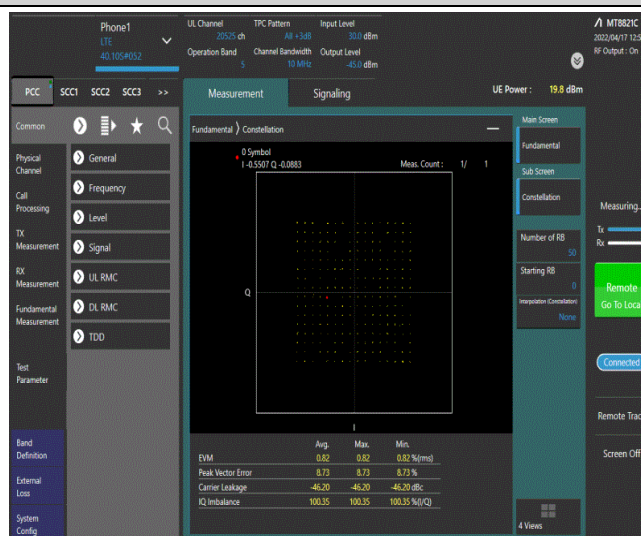
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Band5-10MHz-64QAM-20525-50RB#0



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	1.39	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.105	1.39	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.101	1.38	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.104	1.39	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.105	1.40	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.103	1.38	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.105	1.38	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.107	1.38	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.112	1.39	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.109	1.39	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.104	1.38	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.107	1.40	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.703	3.10	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.702	3.07	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	3.09	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.696	3.04	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.698	3.02	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.699	3.05	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.697	3.03	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.695	3.05	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.696	3.04	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.701	3.05	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.696	3.04	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.696	2.99	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.48	5.08	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.482	5.07	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.478	5.07	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.474	5.01	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.478	5.09	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.481	4.97	PASS



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Band5	5MHz	64QAM	20425	25RB#0	4.477	5.06	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.48	5.00	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.482	5.03	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.475	5.06	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.475	5.06	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.48	4.98	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.943	9.88	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.941	9.86	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.80	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.935	9.78	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.94	9.82	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.933	9.84	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.931	9.86	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.926	9.80	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.939	9.80	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.929	9.82	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.92	9.82	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.939	9.72	PASS



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Test Graphs

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



Band5-1.4MHz-QPSK-20525-6RB#0



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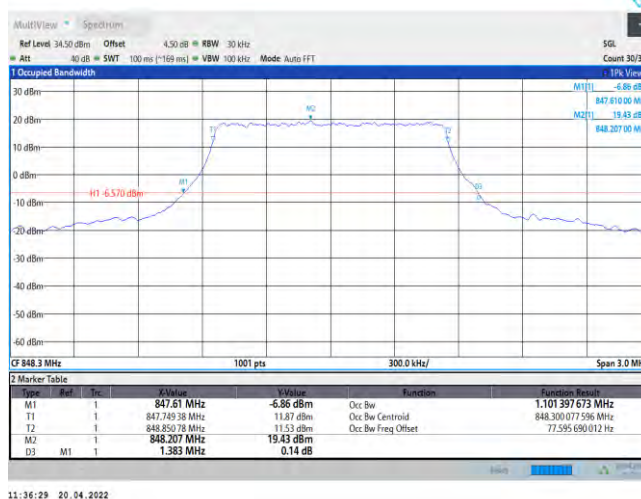
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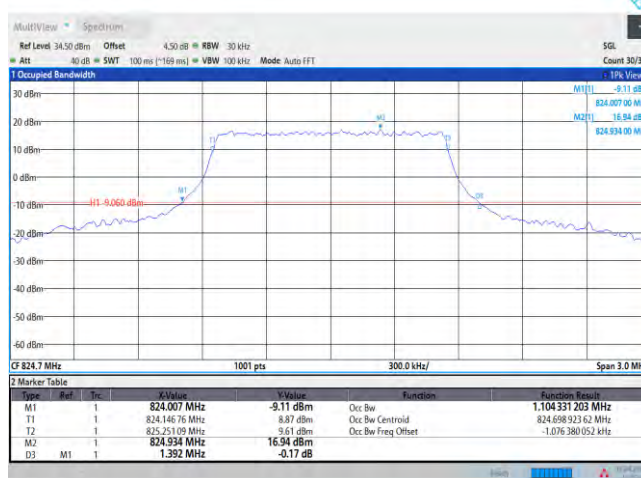
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Band5-1.4MHz-QPSK-20643-6RB#0



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



14:05:06 16.04.2022



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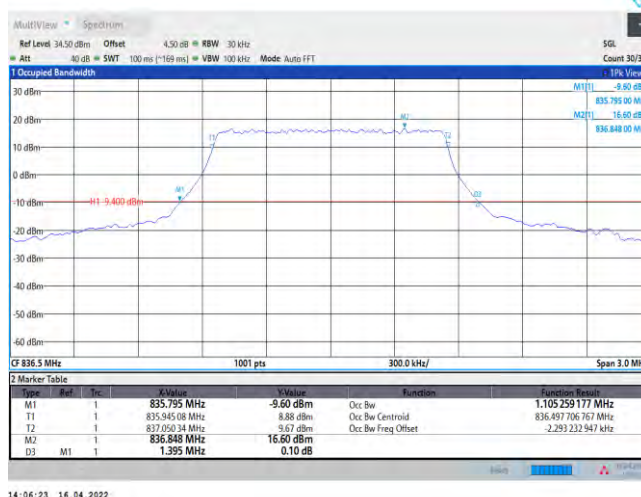
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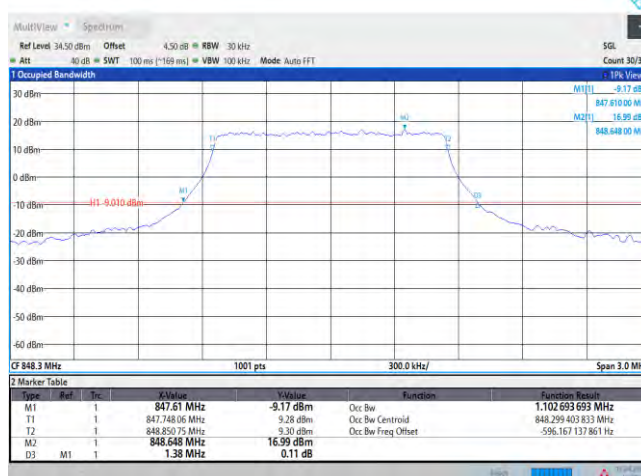
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Band5-1.4MHz-16QAM-20643-6RB#0



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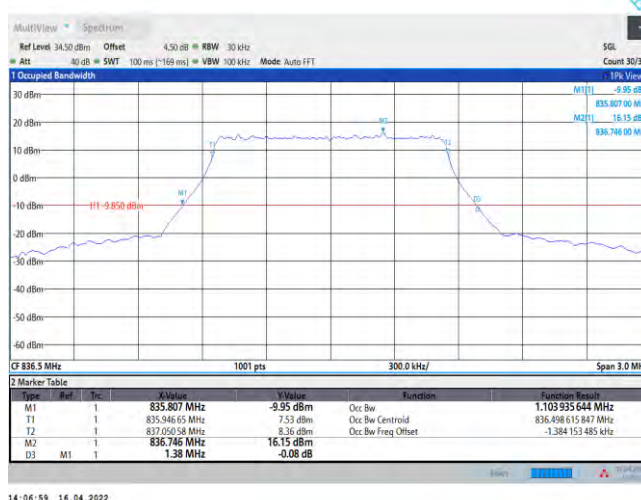
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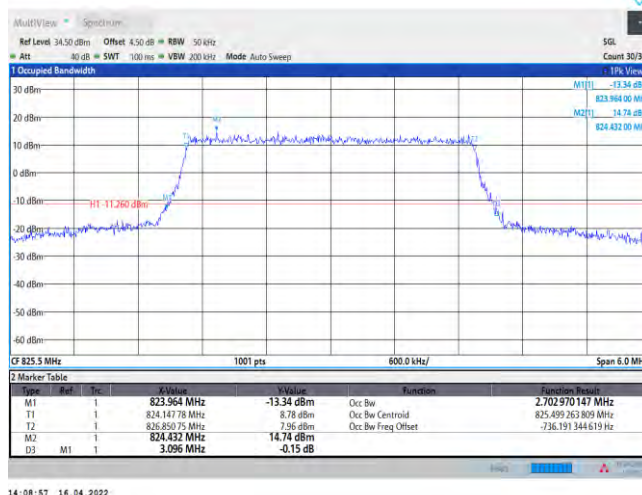
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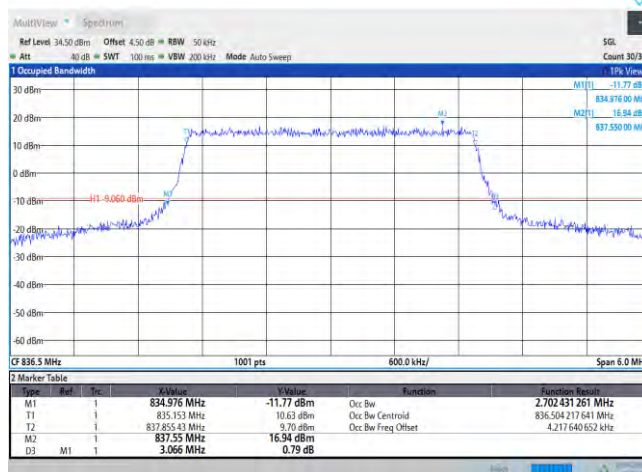
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Band5-3MHz-QPSK-20415-15RB#0



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Band5-3MHz-QPSK-20525-15RB#0



11:37:00 20.04.2022



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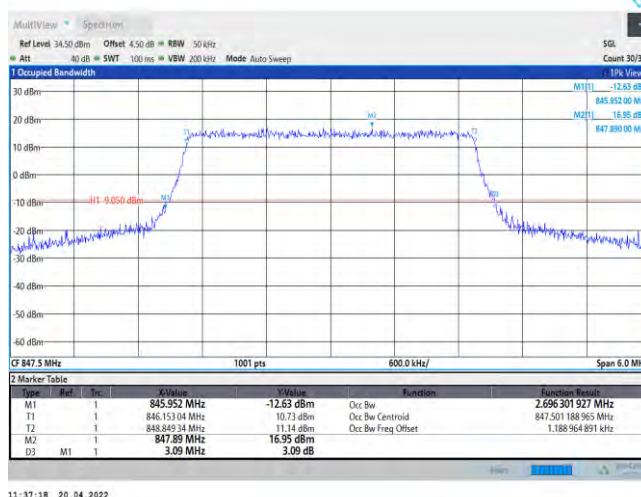
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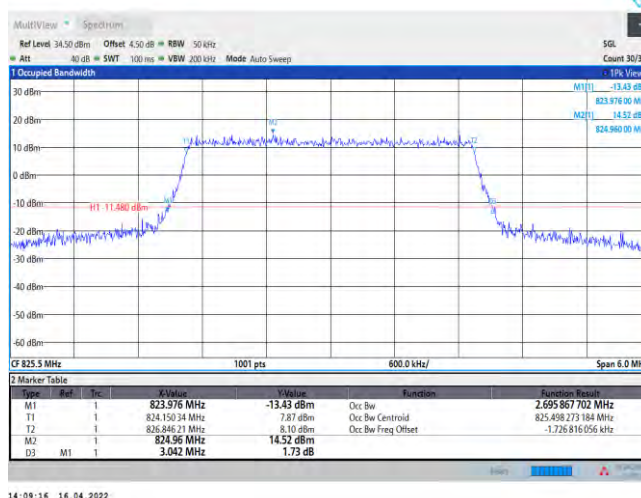
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Band5-3MHz-QPSK-20635-15RB#0



11:37:18 20.04.2022

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



14:09:16 16.04.2022



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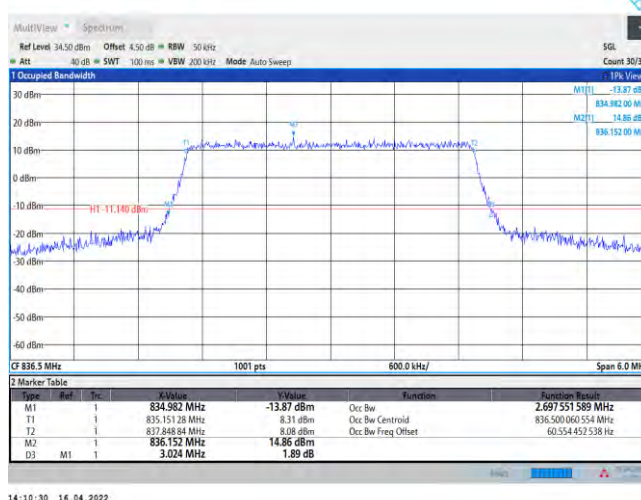
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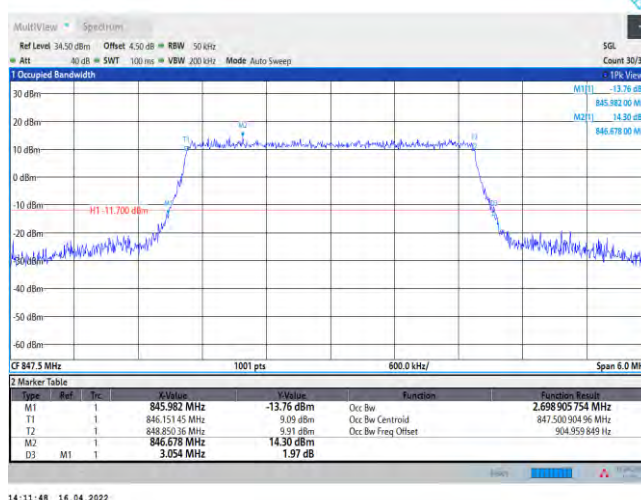
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Band5-3MHz-16QAM-20525-15RB#0



Band5-3MHz-16QAM-20635-15RB#0



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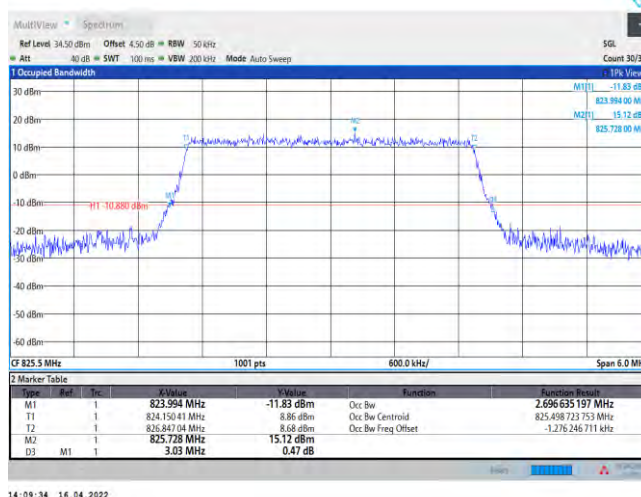
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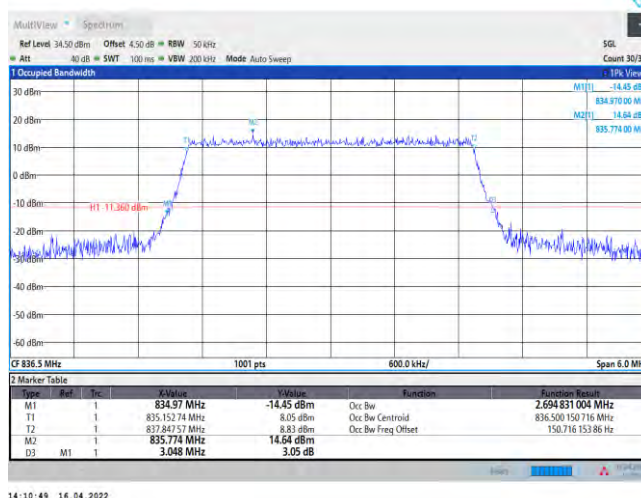
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Band5-3MHz-64QAM-20415-15RB#0



14:09:34 16.04.2022

Band5-3MHz-64QAM-20525-15RB#0



14:10:49 16.04.2022



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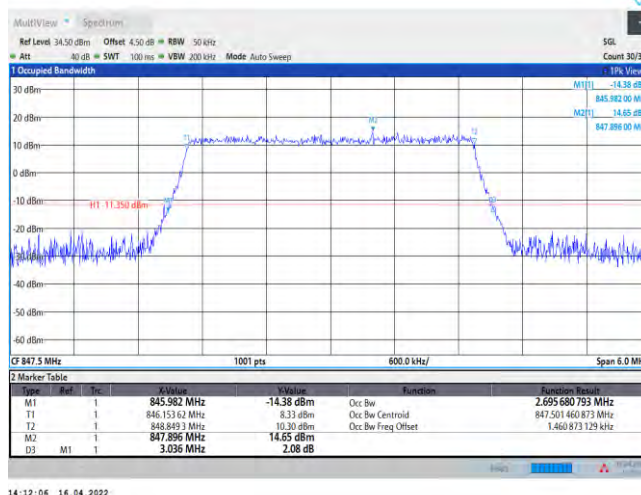
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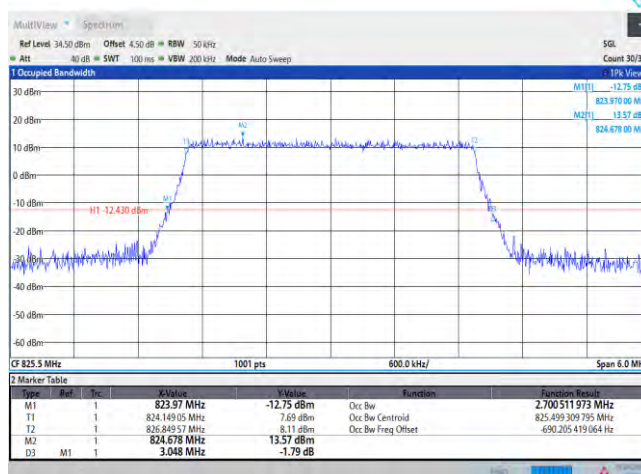
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14:12:06 16.04.2022

Band5-3MHz-256QAM-20415-15RB#0



14:09:52 16.04.2022



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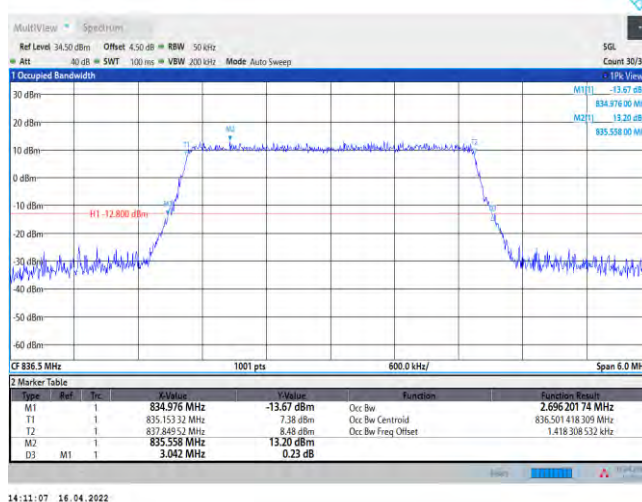
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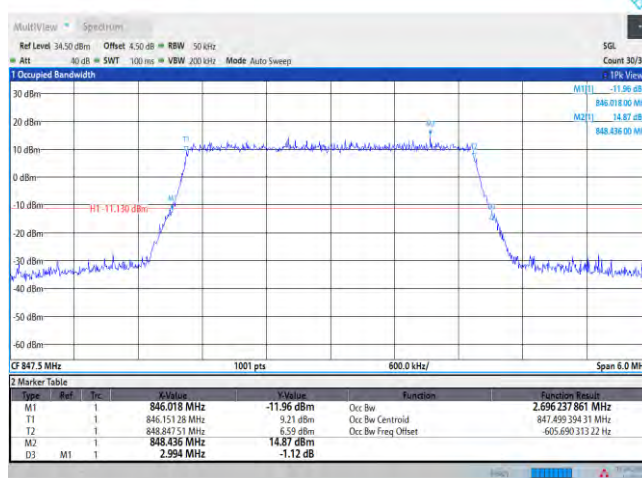
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Band5-3MHz-256QAM-20635-15RB#0



14:12:24 16.04.2022



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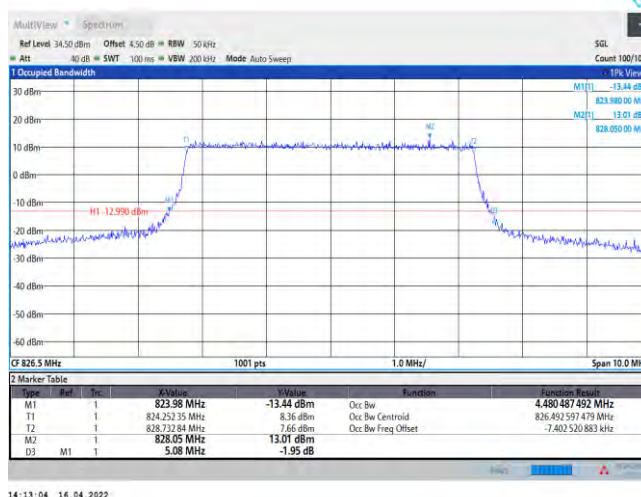
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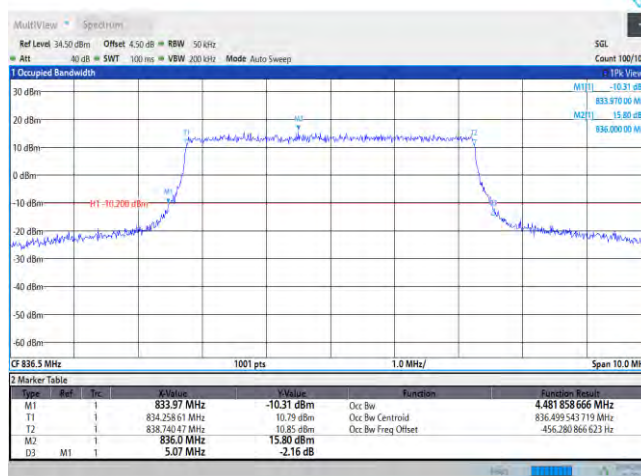
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14:13:04 16.04.2022

Band5-5MHz-QPSK-20525-25RB#0



11:37:58 20.04.2022



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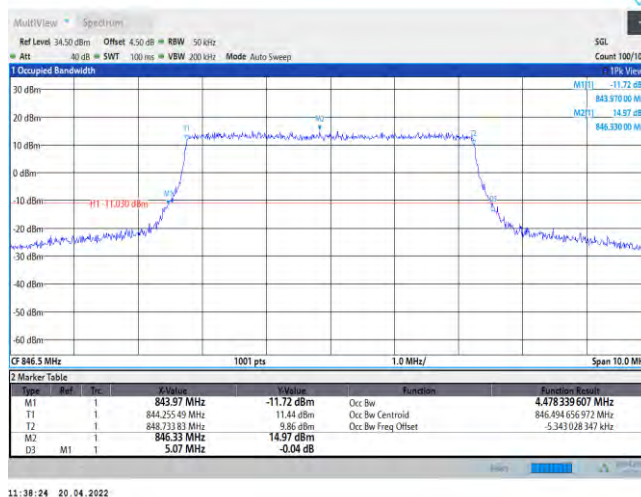
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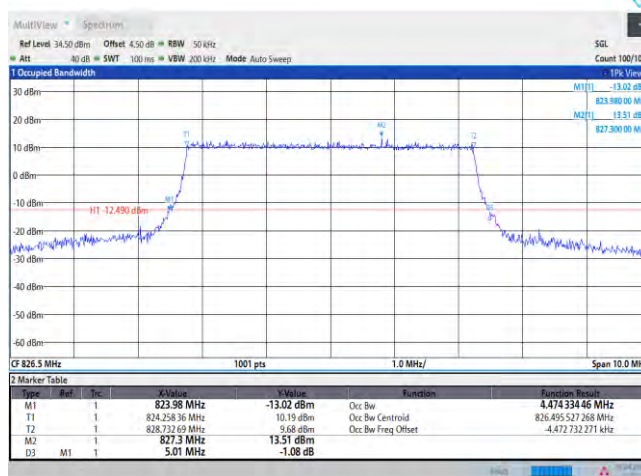
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11:38:24 20.04.2022

Band5-5MHz-16QAM-20425-25RB#0



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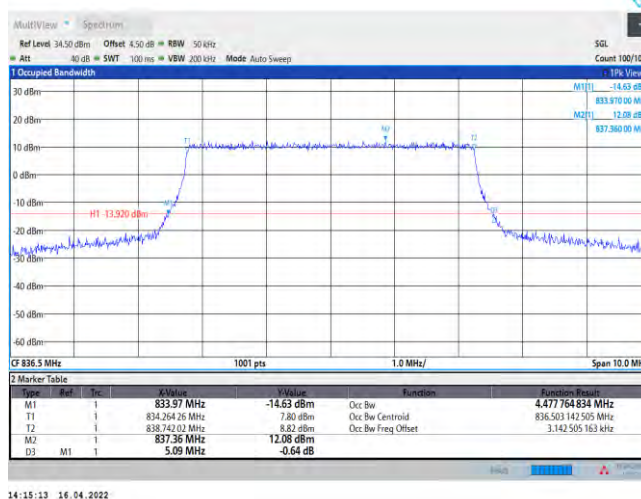
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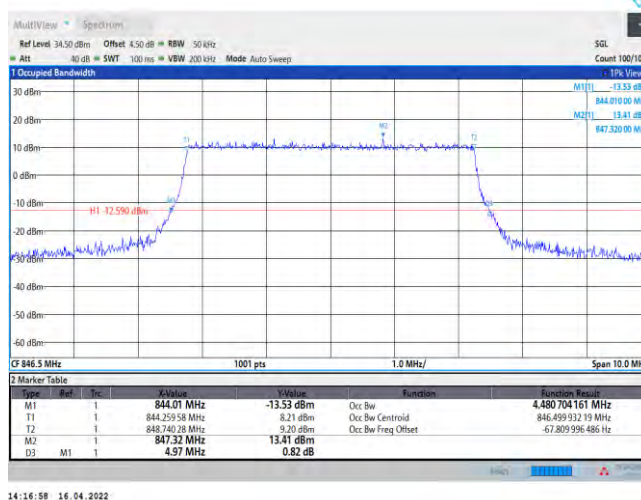
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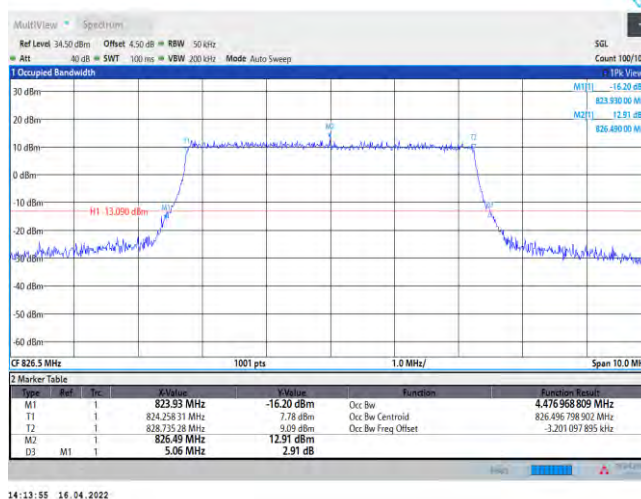
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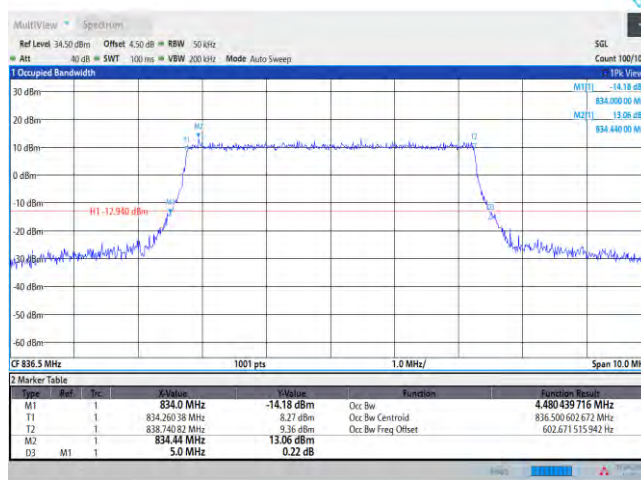
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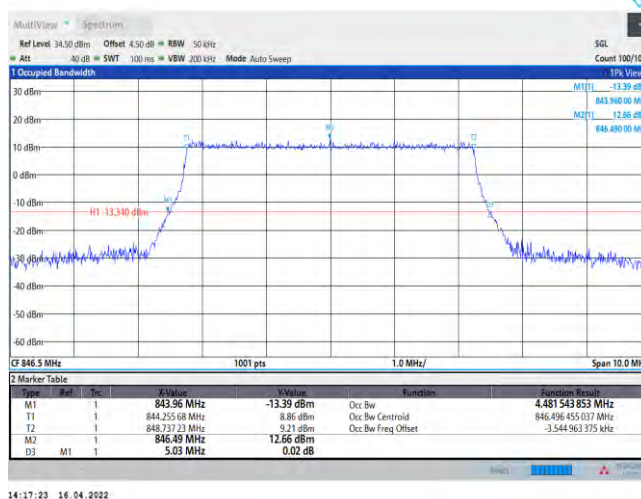
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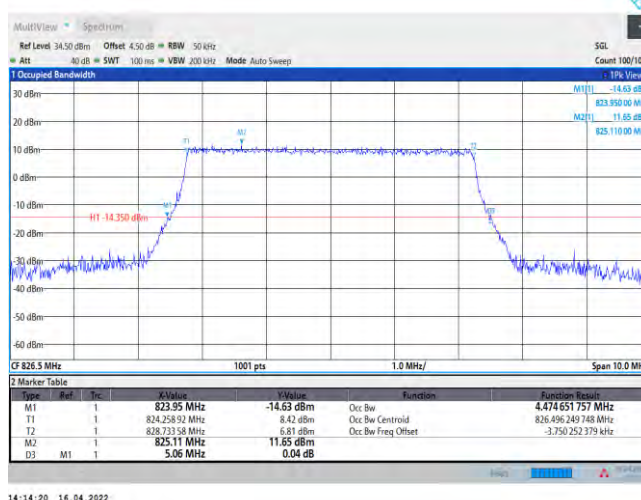
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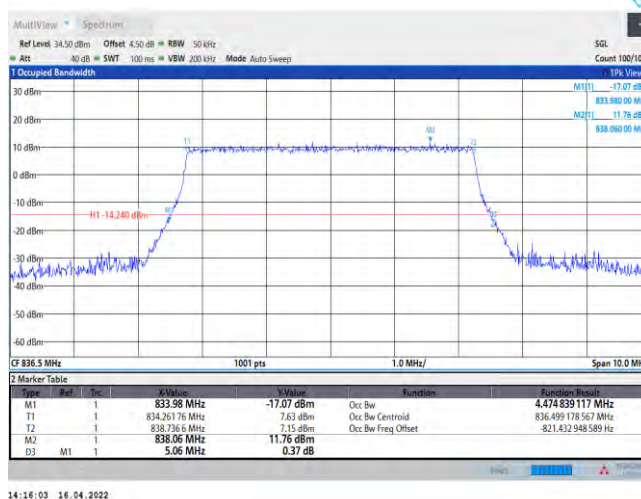
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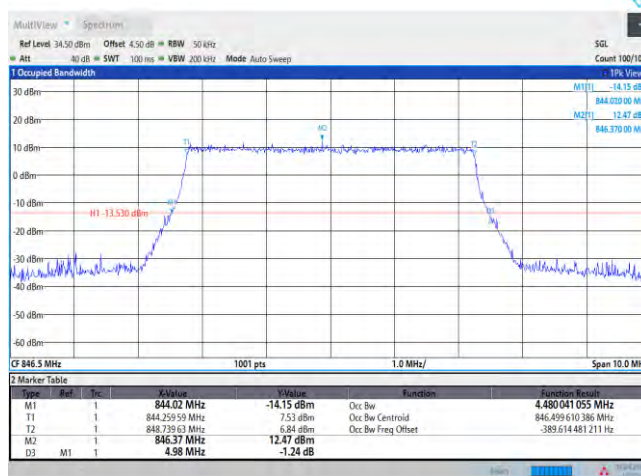
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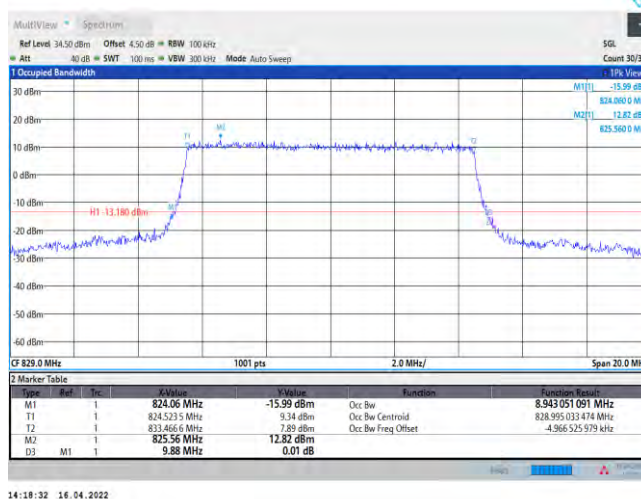
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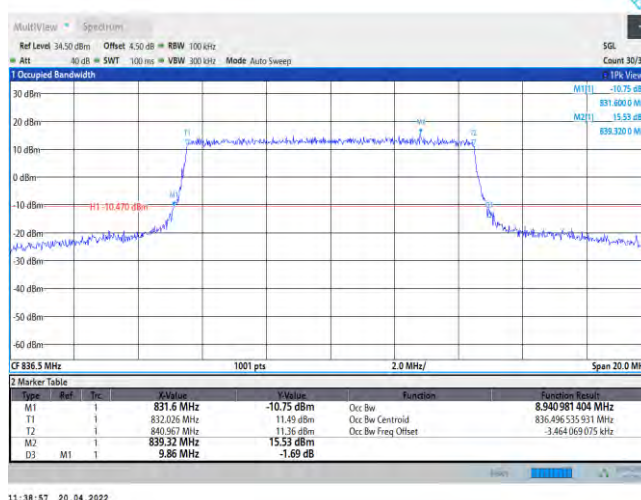
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Band5-10MHz-QPSK-20525-50RB#0



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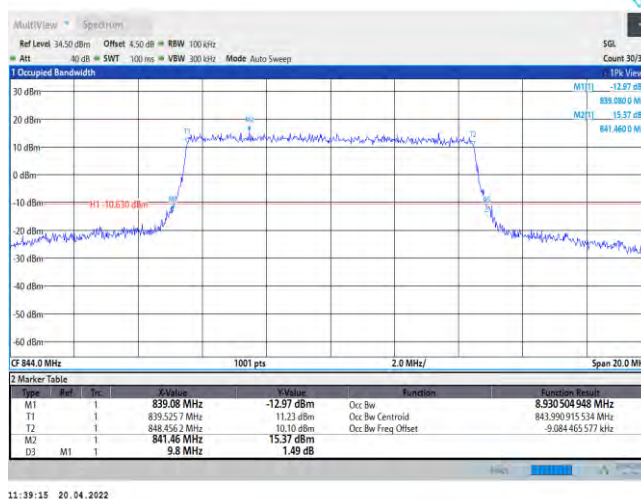
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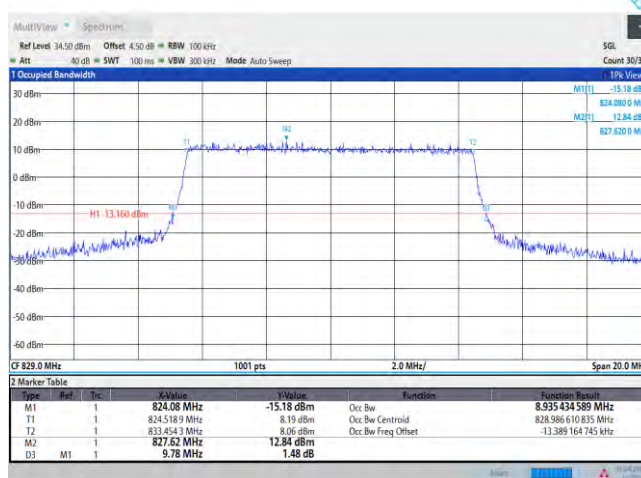
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11:39:15 20.04.2022

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



14:18:50 16.04.2022



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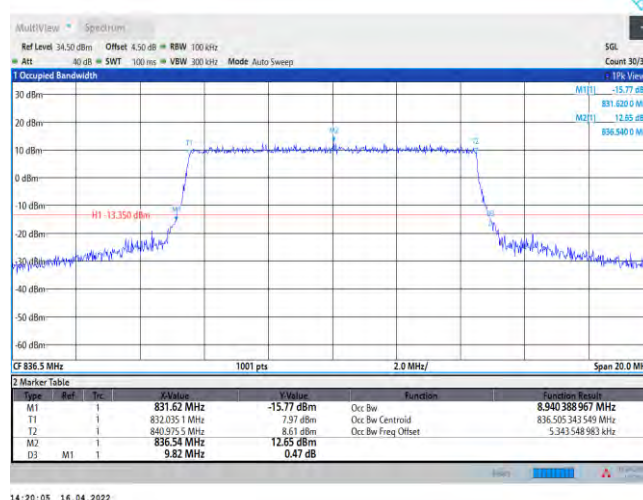
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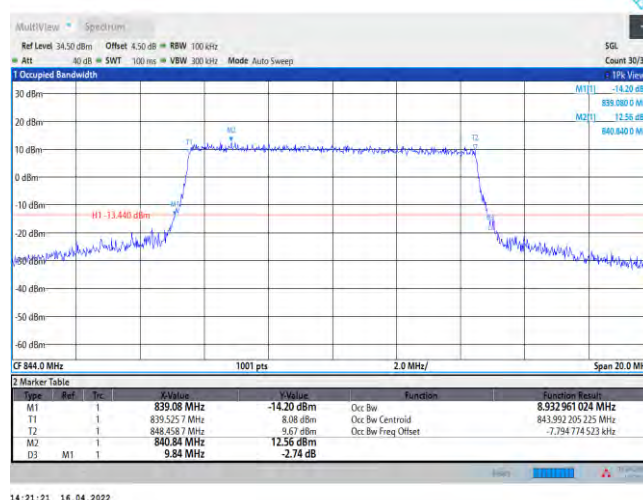
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14:20:05 16.04.2022

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



14:21:21 16.04.2022



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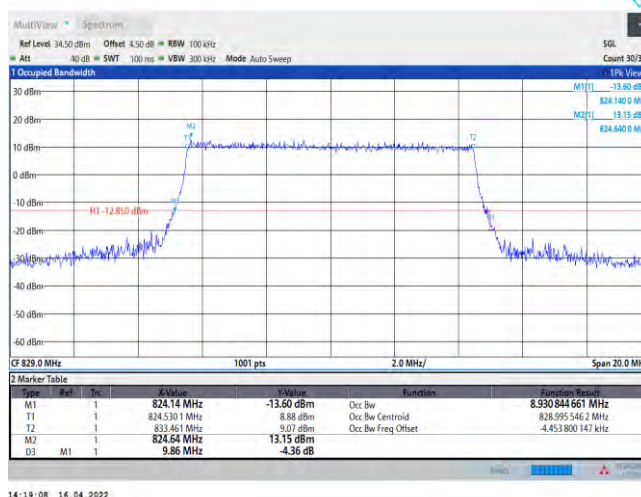
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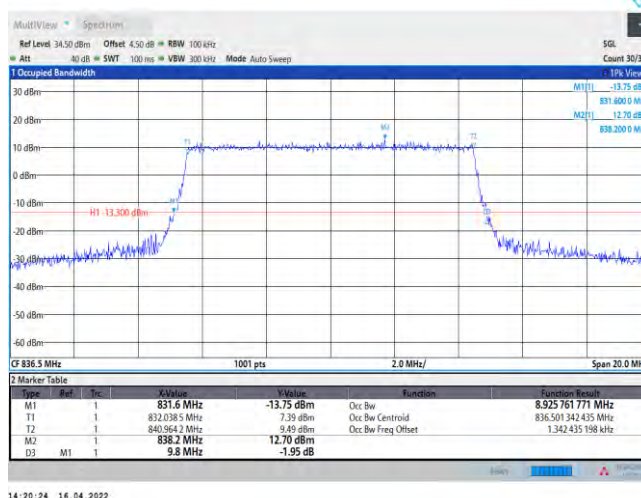
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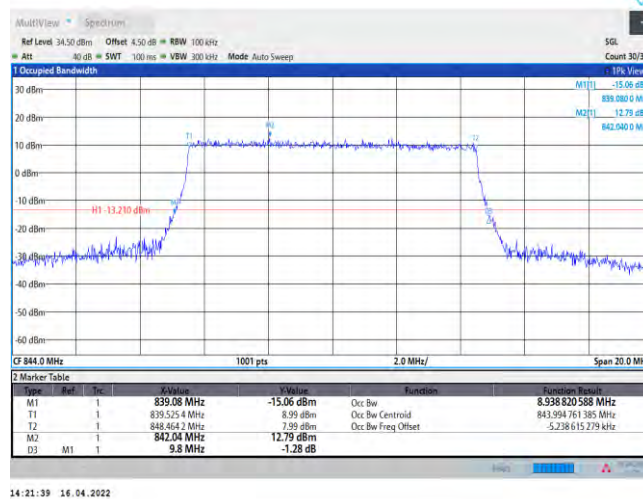
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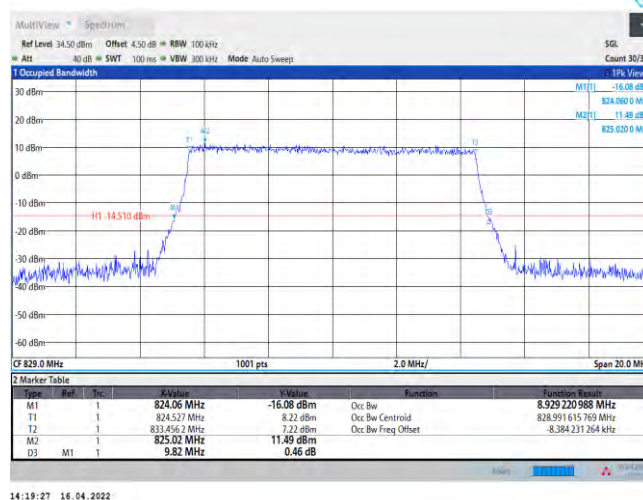
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Band5-10MHz-256QAM-20450-50RB#0



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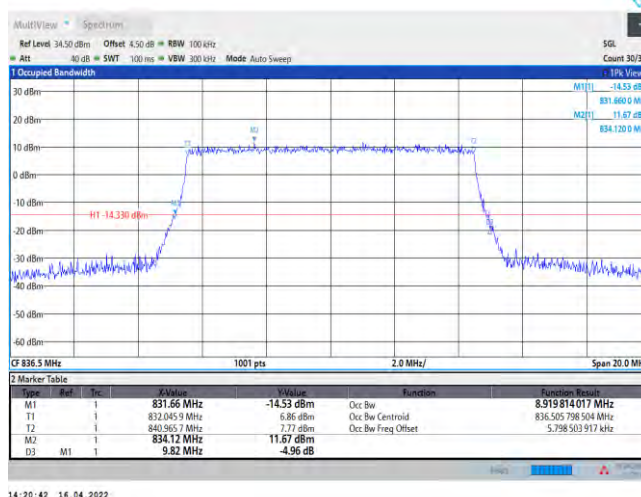
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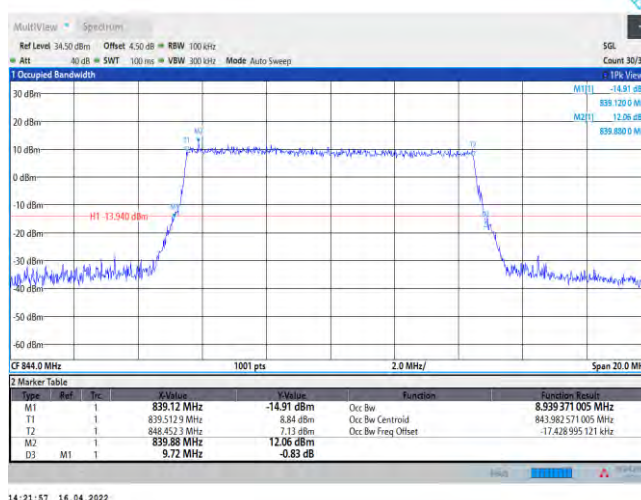
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Band5-10MHz-256QAM-20600-50RB#0



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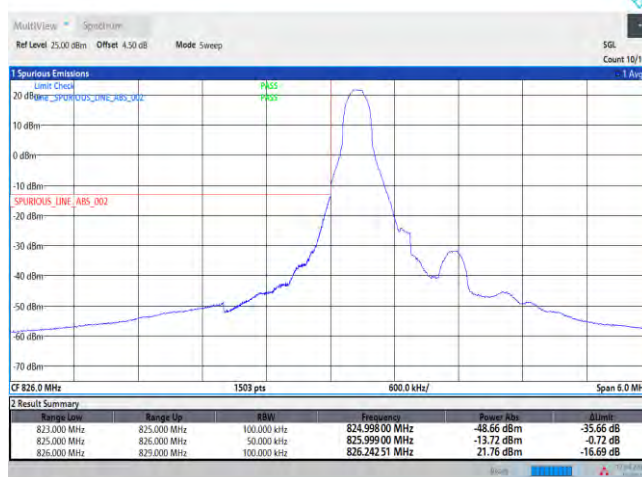
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Band Edge

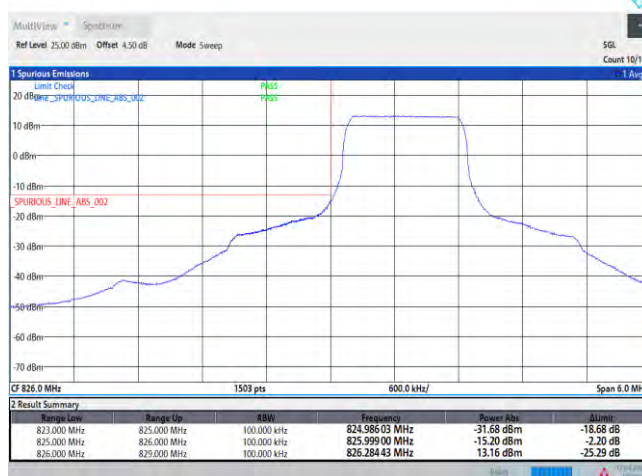
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Band5-1.4MHz-QPSK-20427-1RB#0



17:09:00 17.04.2022

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



17:09:43 17.04.2022



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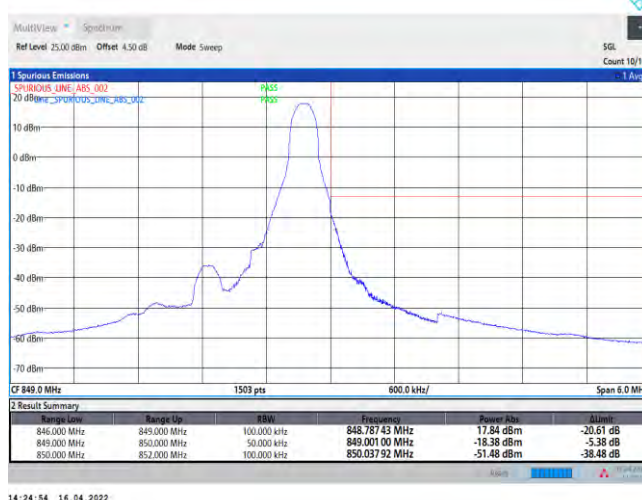
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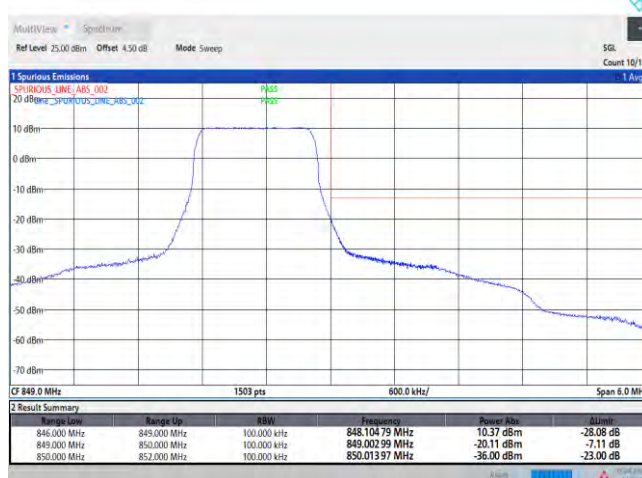
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Band5-1.4MHz-QPSK-20643-1RB#5



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



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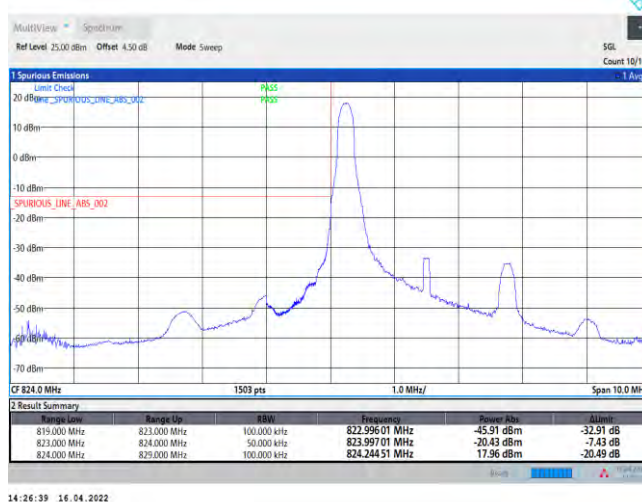
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Band5-3MHz-QPSK-20415-15RB#0



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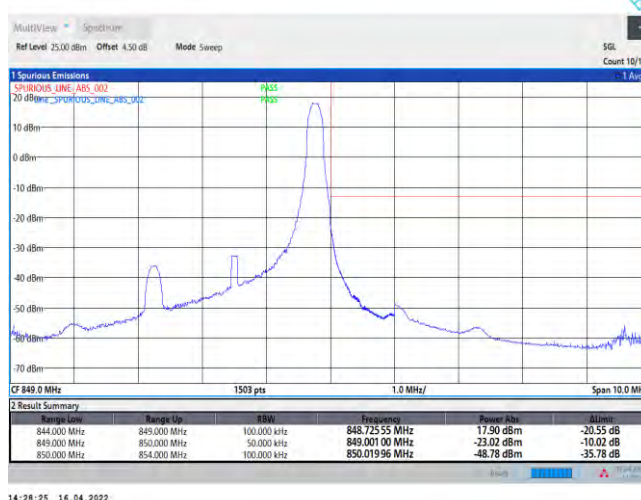
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Band5-3MHz-QPSK-20635-15RB#0



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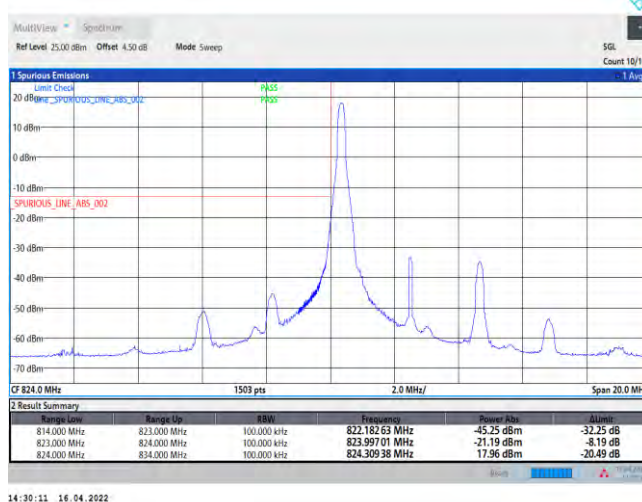
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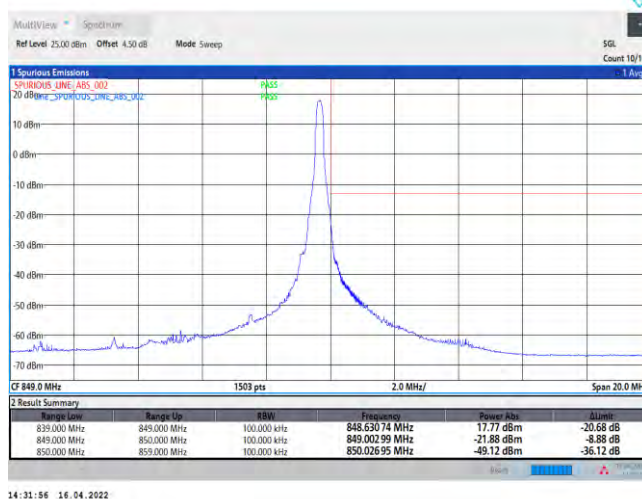
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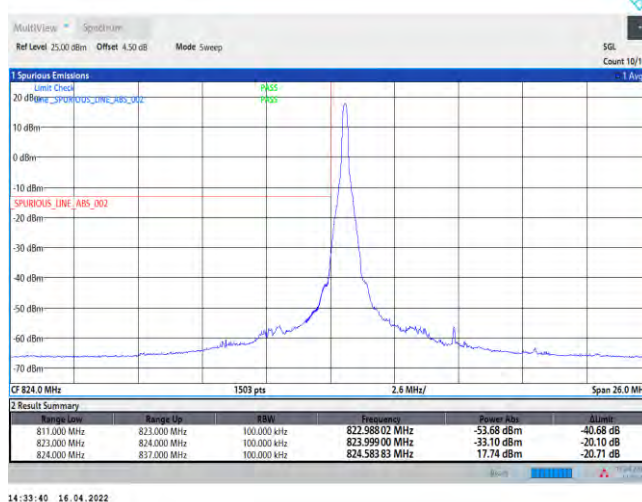
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Band5-10MHz-QPSK-20450-1RB#0



14:33:40 16.04.2022

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



14:34:24 16.04.2022



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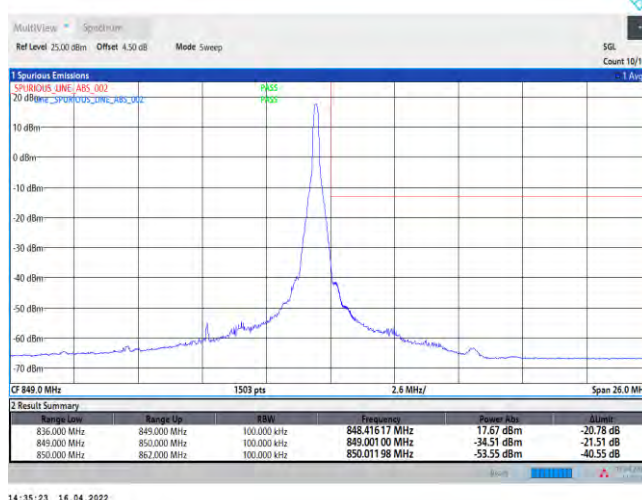
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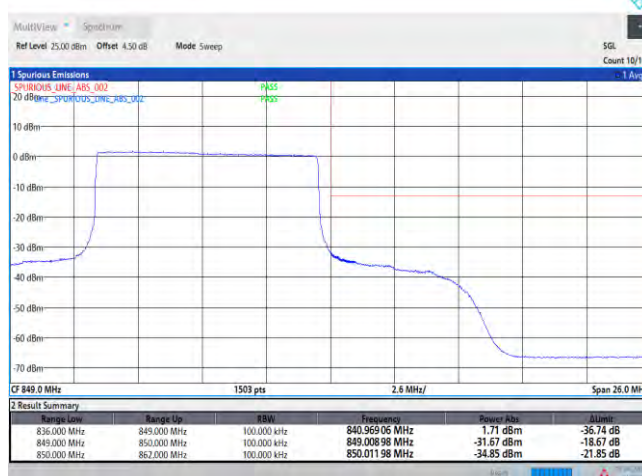
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Band5-10MHz-QPSK-20600-1RB#49



14:35:23 16.04.2022

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



14:36:06 16.04.2022



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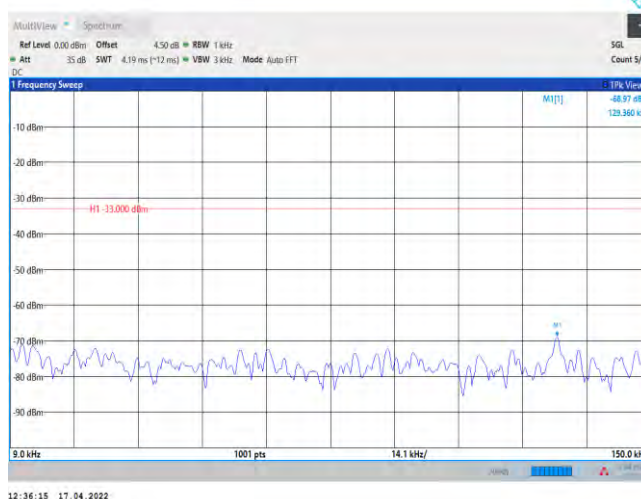
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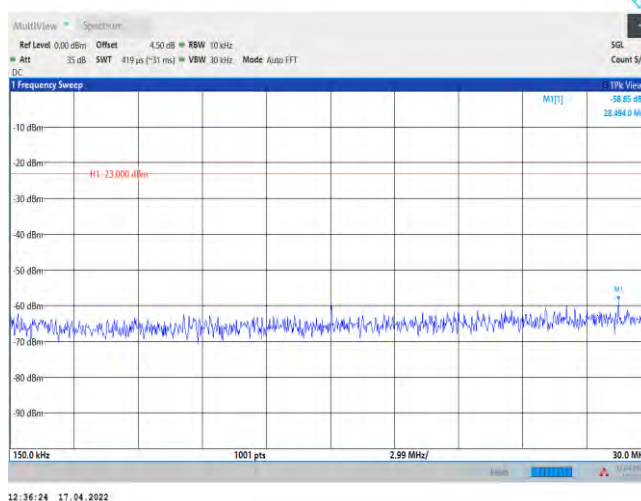
Conducted Spurious Emission

Test Graphs

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



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



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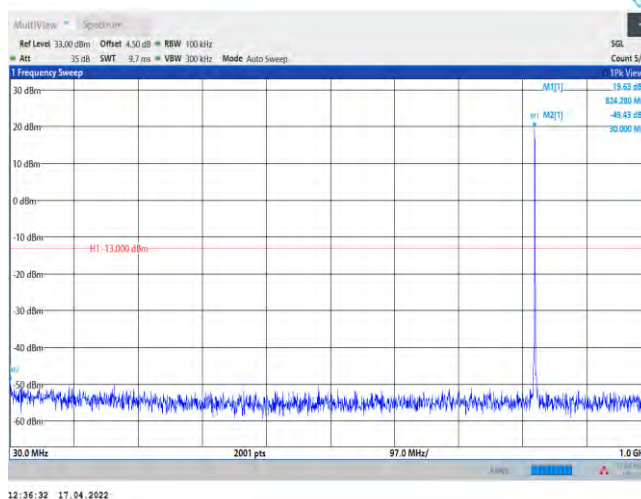
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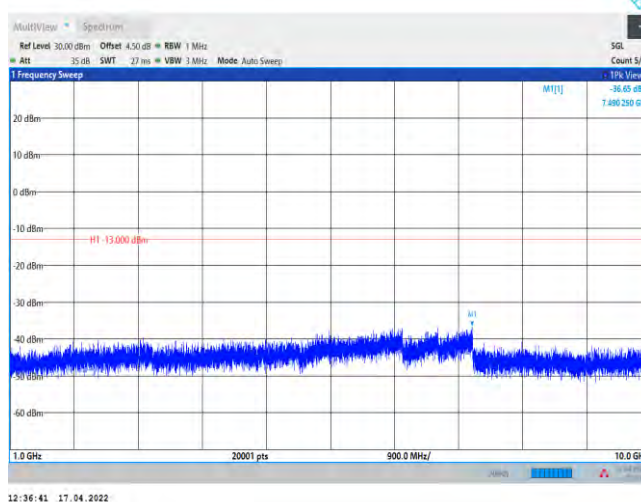
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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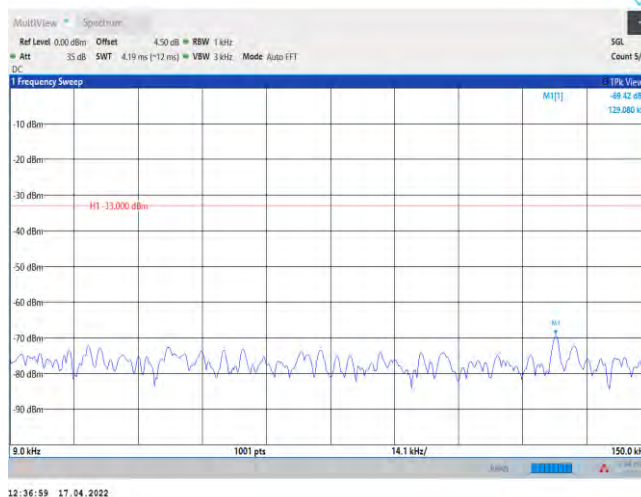
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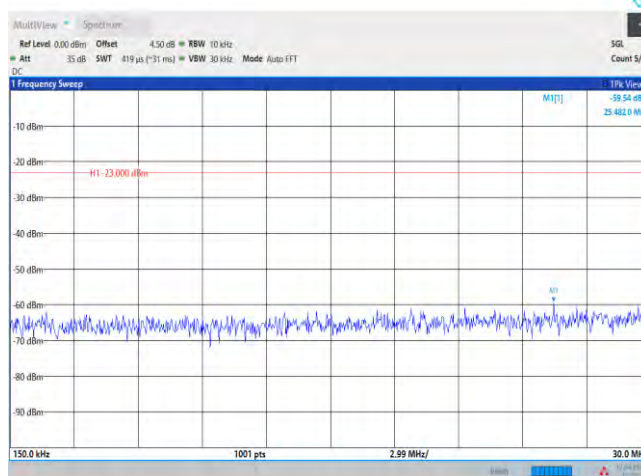
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



12:36:59 17.04.2022

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



12:37:08 17.04.2022



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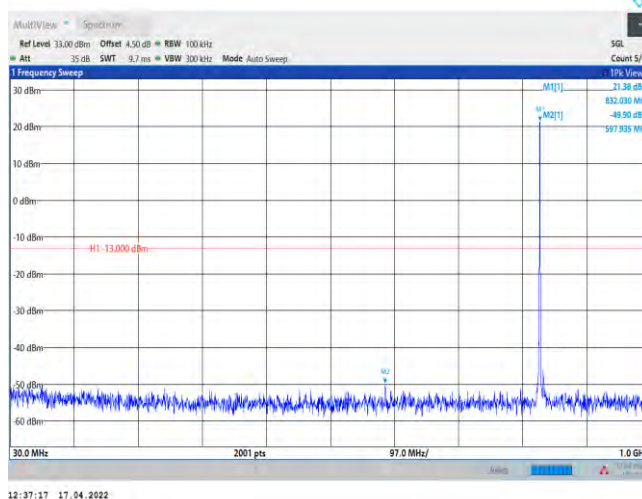
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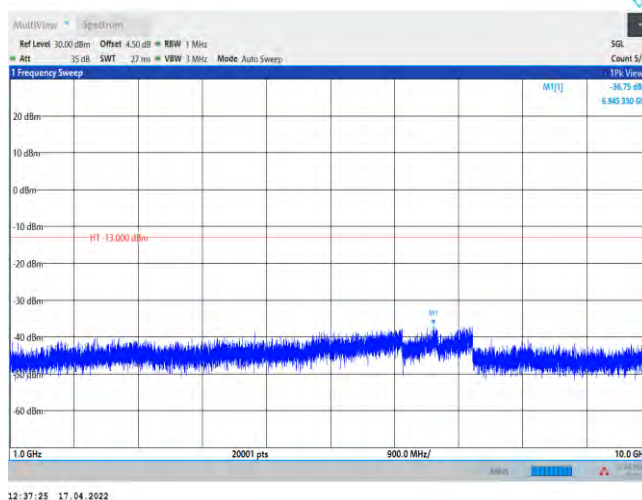
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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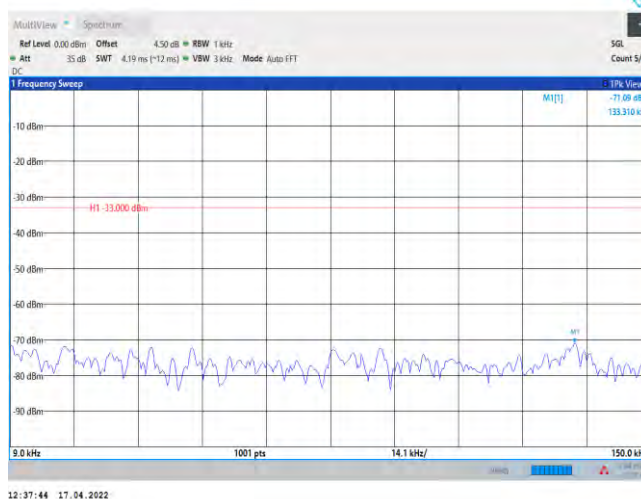
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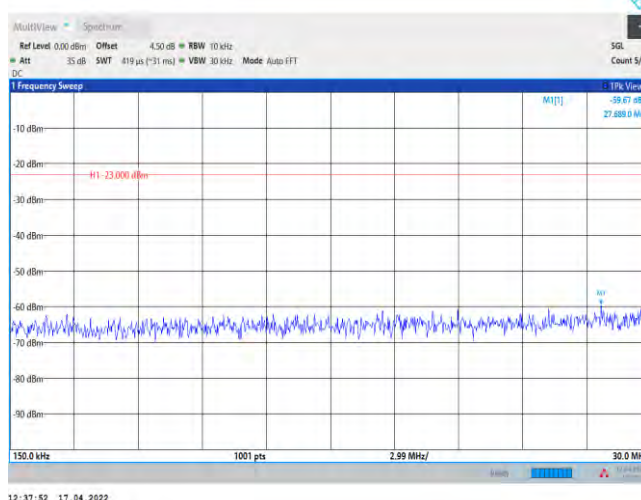
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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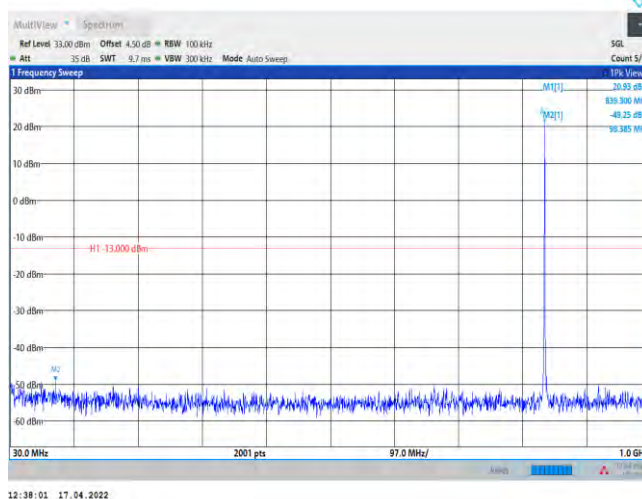
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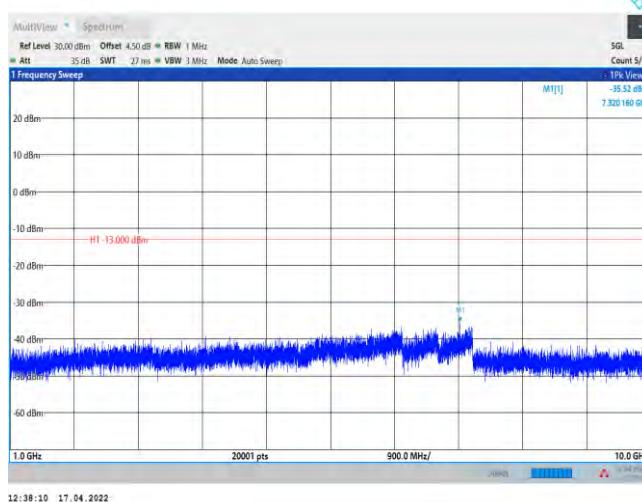
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	58.83	-118.07	-59.24	-13.00	46.24	263	216	Horizontal
2	2473.77	53.16	-114.37	-61.21	-13.00	48.21	241	132	Horizontal
3	3298.36	51.59	-111.89	-60.30	-13.00	47.30	176	300	Horizontal
4	4122.95	48.56	-109.80	-61.24	-13.00	48.24	265	289	Horizontal
5	4947.54	51.47	-107.87	-56.40	-13.00	43.40	241	92	Horizontal
6	5772.13	50.27	-105.31	-55.04	-13.00	42.04	177	348	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	54.32	-118.07	-63.75	-13.00	50.75	263	50	Vertical
2	2432	68.78	-114.81	-46.03	-13.00	33.03	251	258	Vertical
3	3298.36	51.91	-111.89	-59.98	-13.00	46.98	176	62	Vertical
4	4122.95	49.65	-109.80	-60.15	-13.00	47.15	264	62	Vertical
5	4947.54	50.97	-107.87	-56.90	-13.00	43.90	177	40	Vertical
6	5772.13	51.29	-105.31	-54.02	-13.00	41.02	265	0	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	60.42	-118.03	-57.61	-13.00	44.61	263	216	Horizontal
2	2466	66.75	-114.46	-47.71	-13.00	34.71	241	205	Horizontal
3	3328.36	51.19	-111.95	-60.76	-13.00	47.76	175	174	Horizontal
4	4160.45	50.46	-109.62	-59.16	-13.00	46.16	265	359	Horizontal
5	4992.54	50.14	-107.69	-57.55	-13.00	44.55	255	2	Horizontal
6	5824.63	50.85	-105.05	-54.20	-13.00	41.20	177	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	53.76	-118.03	-64.27	-13.00	51.27	263	320	Vertical
2	2496.27	52.47	-114.12	-61.65	-13.00	48.65	254	18	Vertical
3	3328.36	50.93	-111.95	-61.02	-13.00	48.02	177	0	Vertical
4	4160.45	51.82	-109.62	-57.80	-13.00	44.80	166	1	Vertical
5	4992.54	50.49	-107.69	-57.20	-13.00	44.20	266	112	Vertical
6	5824.63	51.07	-105.05	-53.98	-13.00	40.98	324	258	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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	55.52	-118.00	-62.48	-13.00	49.48	263	206	Horizontal
2	2518.77	52.03	-114.13	-62.10	-13.00	49.10	241	186	Horizontal
3	3358.36	51.35	-112.02	-60.67	-13.00	47.67	175	359	Horizontal
4	4197.95	49.58	-109.46	-59.88	-13.00	46.88	266	31	Horizontal
5	5037.54	49.89	-107.51	-57.62	-13.00	44.62	221	186	Horizontal
6	5887.13	51.53	-104.66	-53.13	-13.00	40.13	188	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	53.48	-118.00	-64.52	-13.00	51.52	362	19	Vertical
2	2518.77	51.74	-114.13	-62.39	-13.00	49.39	262	185	Vertical
3	3358.36	51.68	-112.02	-60.34	-13.00	47.34	241	357	Vertical
4	4197.95	49.45	-109.46	-60.01	-13.00	47.01	176	1	Vertical
5	5037.54	49.96	-107.51	-57.55	-13.00	44.55	284	289	Vertical
6	5887.13	50.66	-104.66	-54.00	-13.00	41.00	196	101	Vertical



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Test Band = UL CA Band 2A-5A_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	40.13	-94.97	-54.84	-13.00	41.84	263	246	Horizontal
2	2473.77	40.45	-91.42	-50.97	-13.00	37.97	251	77	Horizontal
3	3298.36	49.93	-111.65	-61.72	-13.00	48.72	174	245	Horizontal
4	3702.18	50.22	-111.07	-60.85	-13.00	47.85	186	341	Horizontal
5	5553.27	49.19	-106.36	-57.17	-13.00	44.17	264	325	Horizontal
6	7404.36	48.51	-100.78	-52.27	-13.00	39.27	188	196	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	39.99	-94.97	-54.98	-13.00	41.98	265	0	Vertical
2	2473.77	41.29	-91.42	-50.13	-13.00	37.13	241	298	Vertical
3	3298.36	51.35	-111.65	-60.30	-13.00	47.30	176	359	Vertical
4	3702.18	50.90	-111.07	-60.17	-13.00	47.17	284	111	Vertical
5	5553.27	50.20	-106.36	-56.16	-13.00	43.16	196	210	Vertical
6	7404.36	49.28	-100.78	-51.50	-13.00	38.50	264	80	Vertical



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Test Band = UL CA Band 2A-5A_TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	41.10	-94.93	-53.83	-13.00	40.83	263	320	Horizontal
2	2496.27	41.19	-91.26	-50.07	-13.00	37.07	241	110	Horizontal
3	3328.36	51.77	-111.69	-59.92	-13.00	46.92	176	246	Horizontal
4	3742.18	52.11	-110.86	-58.75	-13.00	45.75	251	197	Horizontal
5	5613.27	49.72	-106.14	-56.42	-13.00	43.42	145	131	Horizontal
6	7484.36	47.19	-100.43	-53.24	-13.00	40.24	265	351	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	41.09	-94.93	-53.84	-13.00	40.84	241	8	Vertical
2	2496.27	41.33	-91.26	-49.93	-13.00	36.93	175	108	Vertical
3	3328.36	50.74	-111.69	-60.95	-13.00	47.95	265	209	Vertical
4	3742.18	51.54	-110.86	-59.32	-13.00	46.32	284	15	Vertical
5	5613.27	50.28	-106.14	-55.86	-13.00	42.86	196	291	Vertical
6	7484.25	54.45	-100.43	-45.98	-13.00	32.98	362	46	Vertical



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Test Band = UL CA Band 2A-5A_TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	40.73	-94.89	-54.16	-13.00	41.16	263	319	Horizontal
2	2518.77	40.62	-91.20	-50.58	-13.00	37.58	241	160	Horizontal
3	3358.36	51.84	-111.71	-59.87	-13.00	46.87	175	360	Horizontal
4	3782.18	52.31	-110.66	-58.35	-13.00	45.35	265	163	Horizontal
5	5673.27	49.61	-105.88	-56.27	-13.00	43.27	284	15	Horizontal
6	7564.36	48.30	-100.01	-51.71	-13.00	38.71	178	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	40.68	-94.89	-54.21	-13.00	41.21	241	26	Vertical
2	2518.77	41.38	-91.20	-49.82	-13.00	36.82	176	309	Vertical
3	3358.36	50.49	-111.71	-61.22	-13.00	48.22	284	358	Vertical
4	3782.18	52.34	-110.66	-58.32	-13.00	45.32	175	197	Vertical
5	5673.27	48.75	-105.88	-57.13	-13.00	44.13	265	295	Vertical
6	7564.36	52.49	-100.01	-47.52	-13.00	34.52	248	64	Vertical



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Test Band = UL CA Band 4A-5A_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	41.19	-94.97	-53.78	-13.00	40.78	263	26	Horizontal
2	2473.77	42.49	-91.42	-48.93	-13.00	35.93	251	151	Horizontal
3	3298.36	50.21	-111.65	-61.44	-13.00	48.44	175	359	Horizontal
4	3422.18	53.94	-111.71	-57.77	-13.00	44.77	265	192	Horizontal
5	5133.27	50.09	-106.90	-56.81	-13.00	43.81	284	360	Horizontal
6	6844.36	48.01	-101.87	-53.86	-13.00	40.86	179	308	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	40.26	-94.97	-54.71	-13.00	41.71	214	0	Vertical
2	2473.77	41.46	-91.42	-49.96	-13.00	36.96	265	34	Vertical
3	3298.36	50.31	-111.65	-61.34	-13.00	48.34	284	3	Vertical
4	3422.18	52.92	-111.71	-58.79	-13.00	45.79	175	355	Vertical
5	5133.27	49.95	-106.90	-56.95	-13.00	43.95	265	15	Vertical
6	6844.36	48.14	-101.87	-53.73	-13.00	40.73	214	338	Vertical



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Test Band = UL CA Band 4A-5A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	42.63	-94.93	-52.30	-13.00	39.30	210	121	Horizontal
2	2496.27	40.74	-91.26	-50.52	-13.00	37.52	162	9	Horizontal
3	3328.36	50.81	-111.69	-60.88	-13.00	47.88	284	32	Horizontal
4	3447.18	53.40	-111.65	-58.25	-13.00	45.25	176	182	Horizontal
5	5170.77	48.92	-106.85	-57.93	-13.00	44.93	251	49	Horizontal
6	6894.36	48.06	-101.71	-53.65	-13.00	40.65	173	49	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	41.52	-94.93	-53.41	-13.00	40.41	210	300	Vertical
2	2496.27	40.79	-91.26	-50.47	-13.00	37.47	141	288	Vertical
3	3328.36	51.57	-111.69	-60.12	-13.00	47.12	172	130	Vertical
4	3447	55.35	-111.66	-56.31	-13.00	43.31	262	261	Vertical
5	5170.77	48.72	-106.85	-58.13	-13.00	45.13	284	3	Vertical
6	6894.36	48.52	-101.71	-53.19	-13.00	40.19	178	163	Vertical



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Test Band = UL CA Band 4A-5A_TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	42.04	-94.89	-52.85	-13.00	39.85	263	11	Horizontal
2	2518.77	40.51	-91.20	-50.69	-13.00	37.69	241	121	Horizontal
3	3358.36	49.65	-111.71	-62.06	-13.00	49.06	175	148	Horizontal
4	3472.18	53.37	-111.61	-58.24	-13.00	45.24	286	327	Horizontal
5	5208.27	51.87	-106.80	-54.93	-13.00	41.93	241	165	Horizontal
6	6944.36	47.53	-101.67	-54.14	-13.00	41.14	178	327	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	40.67	-94.89	-54.22	-13.00	41.22	263	340	Vertical
2	2518.77	40.83	-91.20	-50.37	-13.00	37.37	244	246	Vertical
3	3358.36	50.83	-111.71	-60.88	-13.00	47.88	177	16	Vertical
4	3472.18	53.82	-111.61	-57.79	-13.00	44.79	255	32	Vertical
5	5208.27	50.25	-106.80	-56.55	-13.00	43.55	265	49	Vertical
6	6944.36	49.50	-101.67	-52.17	-13.00	39.17	173	165	Vertical



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth h	Modulation n	Channel l	RB Configure	Voltage e [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	1.50	0.001793	±2.5	PASS

Temperature										
Band	Bandwidth h	Modulation n	Channel l	RB Configure	Voltage e [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	1.30	0.001554	±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	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	1.40	0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.10	0.000120	±2.5	PASS

The End



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