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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	22.37	21.03	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.48	21.14	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.59	21.25	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.45	20.11	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.98	21.64	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.64	21.3	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.51	21.17	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.43	20.09	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.01	21.67	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.47	21.13	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.54	21.2	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.55	20.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.59	20.25	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.56	20.22	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.48	20.14	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.46	19.12	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.62	20.28	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.82	20.48	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.79	20.45	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.57	19.23	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.59	20.25	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.8	20.46	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.7	20.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.58	19.24	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.75	19.41	38.45	PASS



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Band5	1.4MHz	64QAM	20407	1RB#2	20.7	19.36	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.66	19.32	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	19.47	18.13	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	20.62	19.28	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	20.78	19.44	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.5	19.16	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.45	18.11	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.77	19.43	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.72	19.38	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.73	19.39	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.52	18.18	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	17.5	16.16	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	17.54	16.2	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	17.59	16.25	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	17.51	16.17	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	17.46	16.12	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	17.59	16.25	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	17.64	16.3	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	17.46	16.12	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	17.53	16.19	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	17.61	16.27	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	17.64	16.3	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	17.61	16.27	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.38	21.04	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.52	21.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.42	21.08	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.5	20.16	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.85	21.51	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.65	21.31	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.52	21.18	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.53	20.19	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.36	21.02	38.45	PASS



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Band5	3MHz	QPSK	20635	1RB#8	22.67	21.33	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.65	21.31	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.46	20.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.36	20.02	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.52	20.18	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.45	20.11	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.46	19.12	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.49	20.15	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.64	20.3	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.6	20.26	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.56	19.22	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.63	20.29	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.79	20.45	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.64	20.3	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.54	19.2	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.56	19.22	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.74	19.4	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.61	19.27	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.48	18.14	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	20.74	19.4	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.81	19.47	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	20.66	19.32	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.64	18.3	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	20.51	19.17	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	20.7	19.36	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.74	19.4	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.5	18.16	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	17.49	16.15	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	17.49	16.15	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	17.5	16.16	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	17.52	16.18	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	17.5	16.16	38.45	PASS



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Band5	3MHz	256QAM	20525	1RB#8	17.73	16.39	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#14	17.62	16.28	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	17.57	16.23	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	17.53	16.19	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	17.64	16.3	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	17.61	16.27	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	17.42	16.08	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.49	21.15	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.44	21.1	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.4	21.06	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.39	20.05	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.74	21.4	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.67	21.33	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.62	21.28	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.56	20.22	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.63	21.29	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.57	21.23	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.57	21.23	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.55	20.21	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.49	20.15	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.7	20.36	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.55	20.21	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.52	19.18	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.57	20.23	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.52	20.18	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.74	20.4	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.62	19.28	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.63	20.29	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.64	20.3	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.6	20.26	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.6	19.26	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.57	19.23	38.45	PASS



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Band5	5MHz	64QAM	20425	1RB#24	20.51	19.17	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.44	18.1	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	20.62	19.28	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	20.7	19.36	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	20.79	19.45	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	19.56	18.22	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.69	19.35	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	20.63	19.29	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.67	19.33	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.47	18.13	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	17.52	16.18	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	17.53	16.19	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	17.45	16.11	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	17.54	16.2	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	17.44	16.1	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	17.73	16.39	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	17.8	16.46	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	17.55	16.21	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	17.64	16.3	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	17.55	16.21	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	17.61	16.27	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	17.53	16.19	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.4	21.06	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.5	21.16	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.42	21.08	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.48	20.14	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.54	21.2	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.58	21.24	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.58	21.24	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.58	20.24	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.41	21.07	38.45	PASS



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Band5	10MHz	QPSK	20600	1RB#24	22.64	21.3	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.54	21.2	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.63	20.29	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.57	20.23	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.63	20.29	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.57	20.23	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.52	19.18	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.58	20.24	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.63	20.29	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.67	20.33	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.55	19.21	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.76	20.42	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.84	20.5	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.65	20.31	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.57	19.23	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.63	19.29	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.9	19.56	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	20.44	19.1	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.6	18.26	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.5	19.16	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	20.7	19.36	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.86	19.52	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.6	18.26	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	20.88	19.54	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	20.84	19.5	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	20.7	19.36	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.6	18.26	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	17.54	16.2	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	17.64	16.3	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	17.68	16.34	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	17.57	16.23	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	17.57	16.23	38.45	PASS



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Band5	10MHz	256QAM	20525	1RB#24	17.74	16.4	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#49	17.86	16.52	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	17.48	16.14	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	17.62	16.28	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	17.92	16.58	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	17.82	16.48	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	17.62	16.28	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	5.24	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.44	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.40	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.08	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.38	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.26	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.66	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.84	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.70	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.92	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.96	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.94	13	PASS



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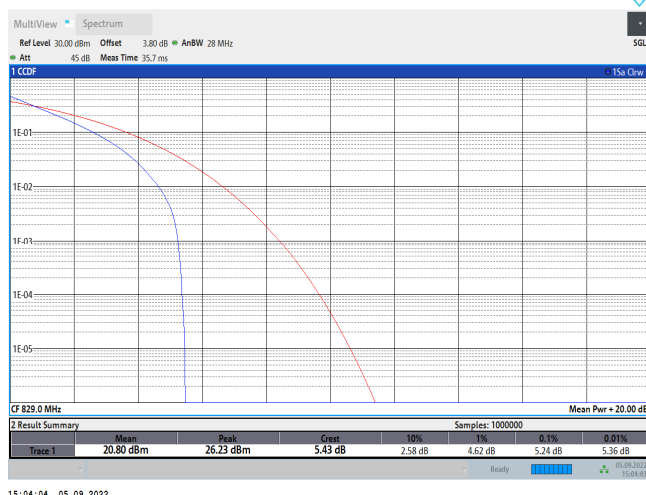
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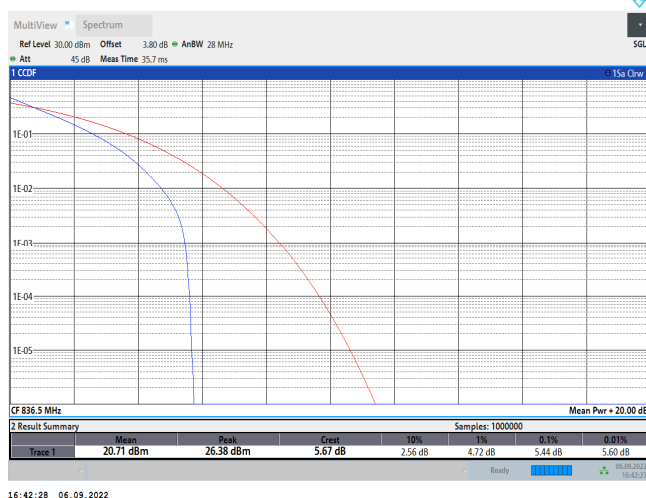
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Test Graphs

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



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



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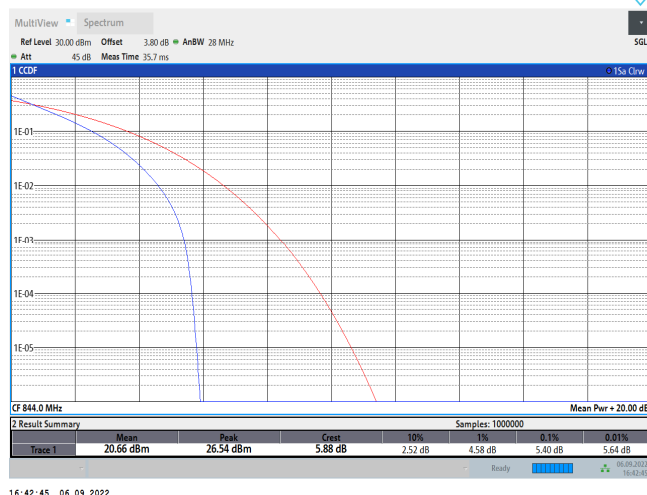
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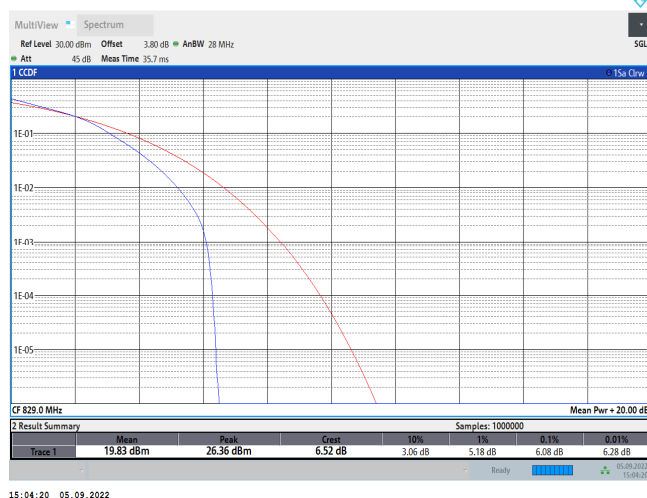
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Band5-10MHz-QPSK-20600-50RB#0



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



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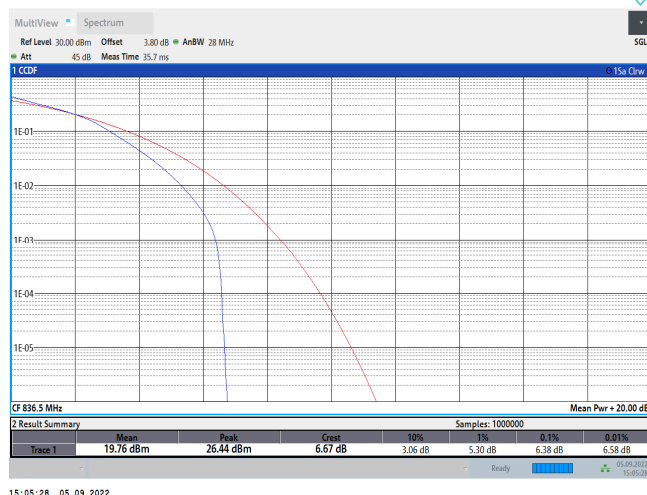
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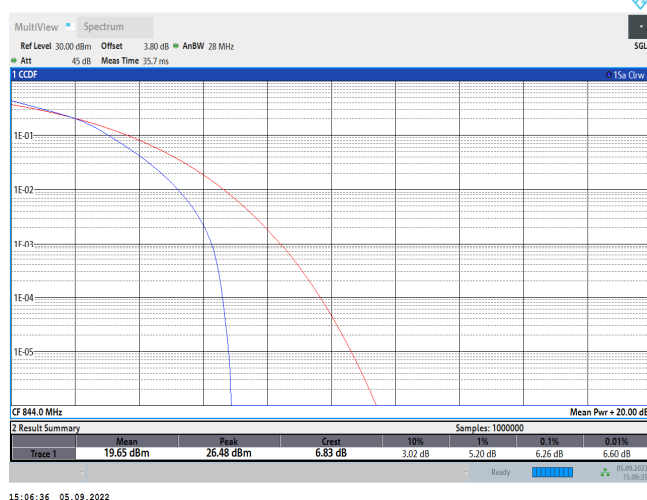
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Band5-10MHz-16QAM-20525-50RB#0



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



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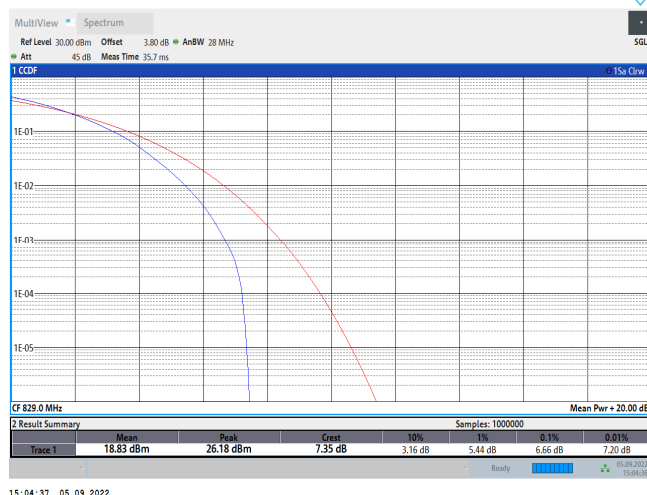
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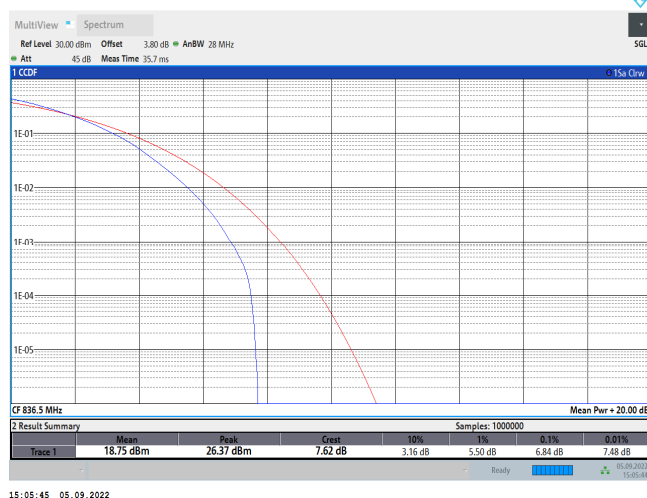
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Band5-10MHz-64QAM-20450-50RB#0



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



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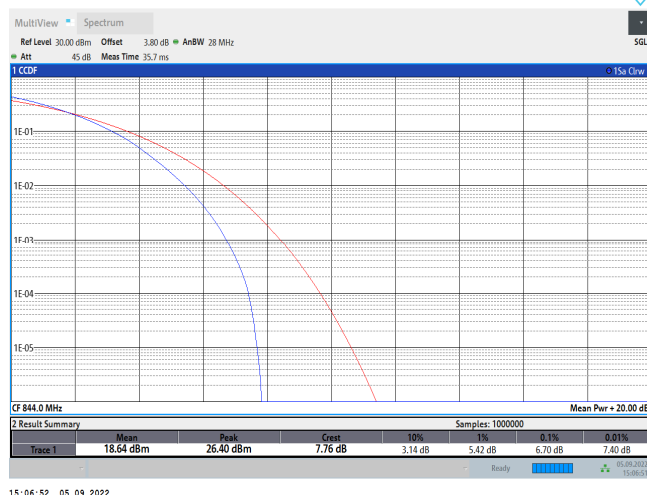
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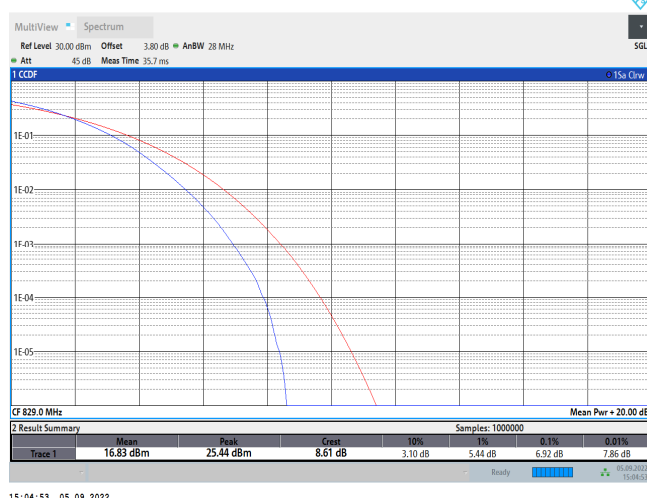
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Band5-10MHz-64QAM-20600-50RB#0



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



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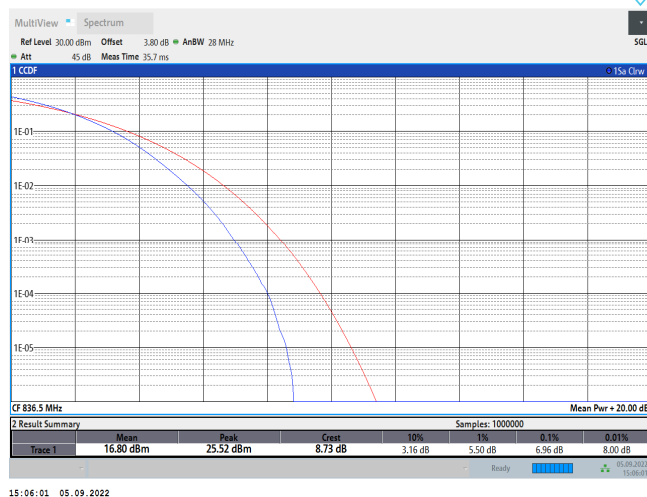
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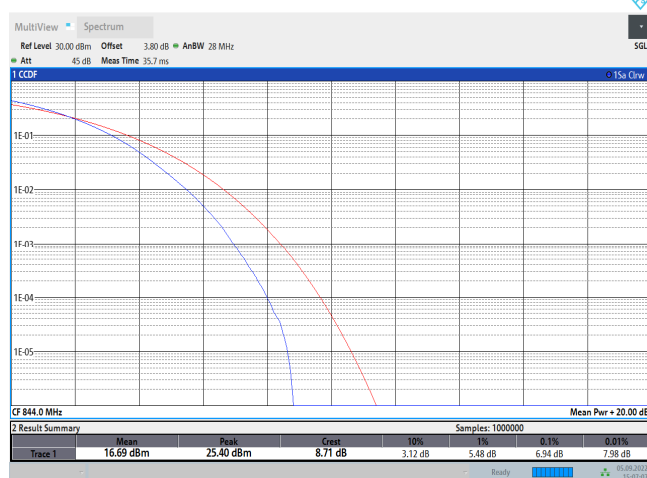
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Band5-10MHz-256QAM-20600-50RB#0



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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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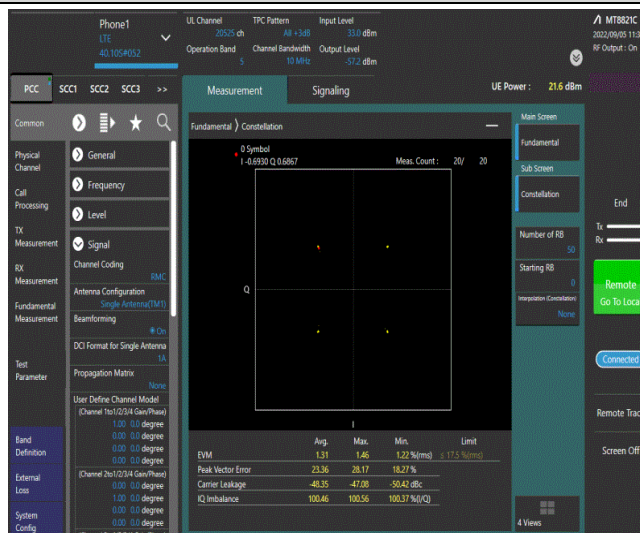
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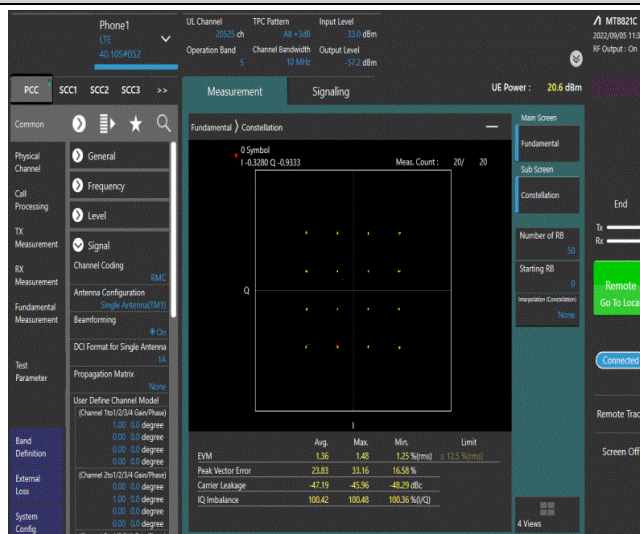
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Test Graphs

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



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



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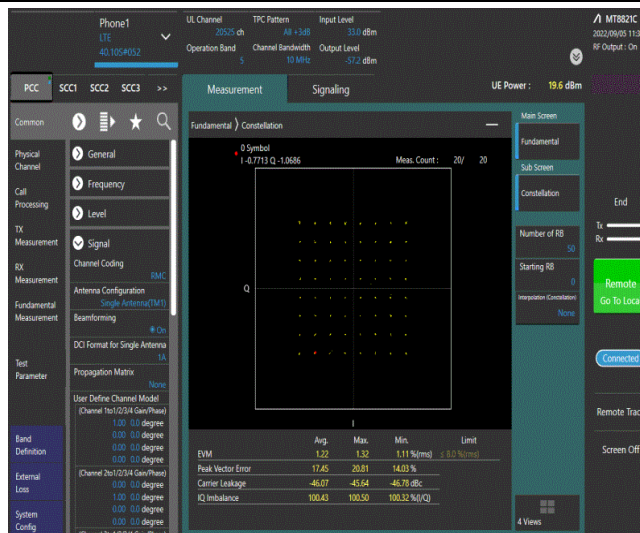
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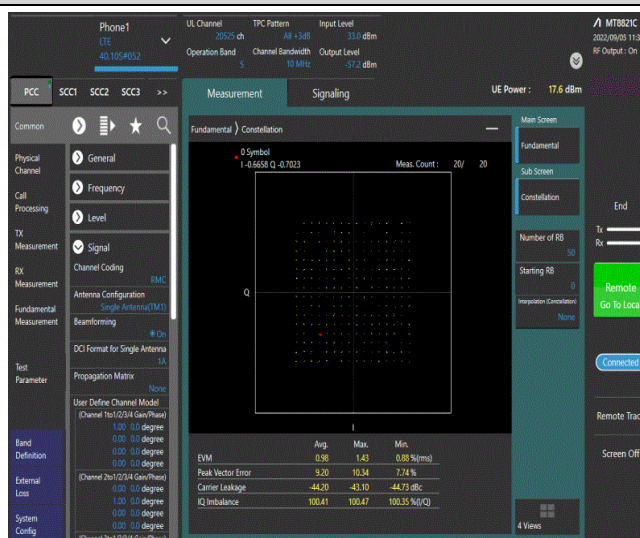
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Band5-10MHz-64QAM-20525-50RB#0



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	1.105	1.37	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.109	1.37	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.103	1.38	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.109	1.38	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.107	1.42	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.107	1.37	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.104	1.37	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.108	1.38	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.109	1.42	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	1.103	1.37	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.106	1.39	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	1.105	1.37	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.694	3.05	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.694	3.05	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.702	3.10	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.696	3.07	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.698	3.07	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.697	3.04	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.698	3.01	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.695	3.02	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.703	3.05	PASS
Band5	3MHz	256QAM	20415	15RB#0	2.698	3.03	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.702	3.08	PASS
Band5	3MHz	256QAM	20635	15RB#0	2.701	3.07	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.475	5.05	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.48	5.09	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	5.08	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.479	5.05	PASS



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Band5	5MHz	16QAM	20525	25RB#0	4.479	5.04	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	5.05	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.476	5.03	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.474	5.09	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.481	5.08	PASS
Band5	5MHz	256QAM	20425	25RB#0	4.471	5.04	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.477	5.01	PASS
Band5	5MHz	256QAM	20625	25RB#0	4.479	5.04	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.945	9.82	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.933	9.78	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.934	9.86	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.935	9.74	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.939	9.88	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.947	9.78	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.943	9.86	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.934	9.78	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.937	9.94	PASS
Band5	10MHz	256QAM	20450	50RB#0	8.945	9.92	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.933	9.76	PASS
Band5	10MHz	256QAM	20600	50RB#0	8.935	9.76	PASS



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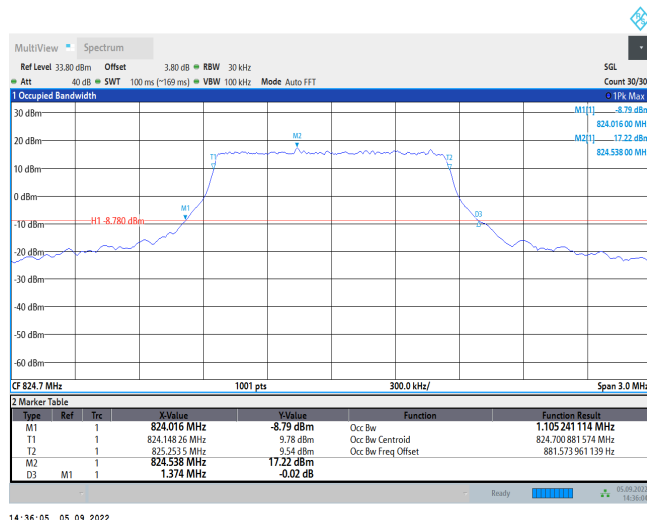
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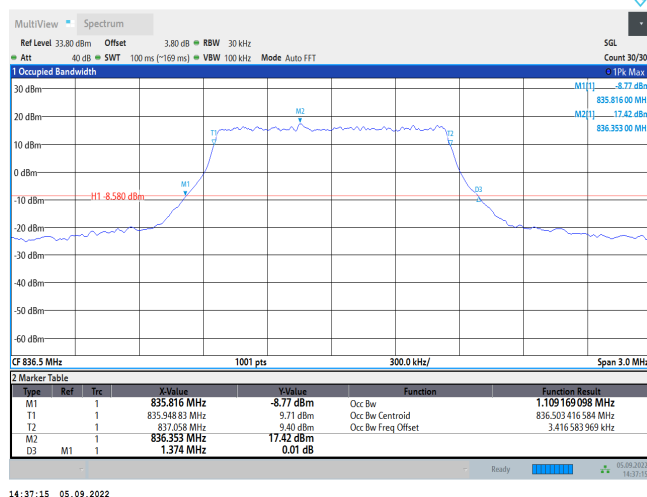
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Test Graphs

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



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



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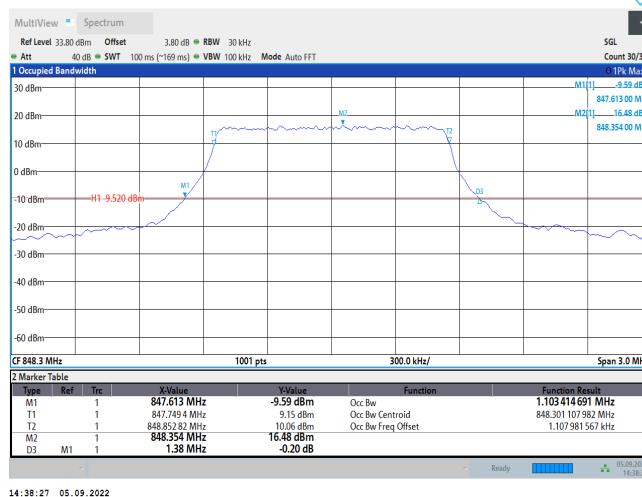
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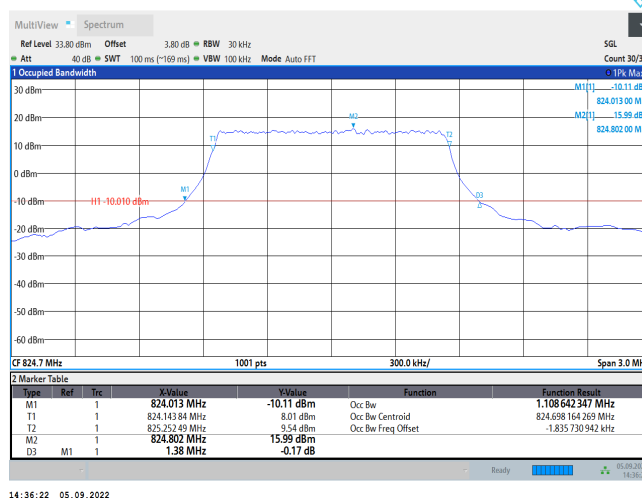
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Band5-1.4MHz-QPSK-20643-6RB#0



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



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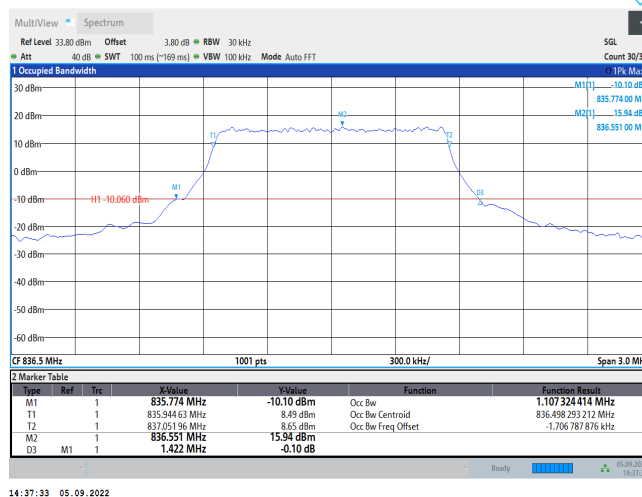
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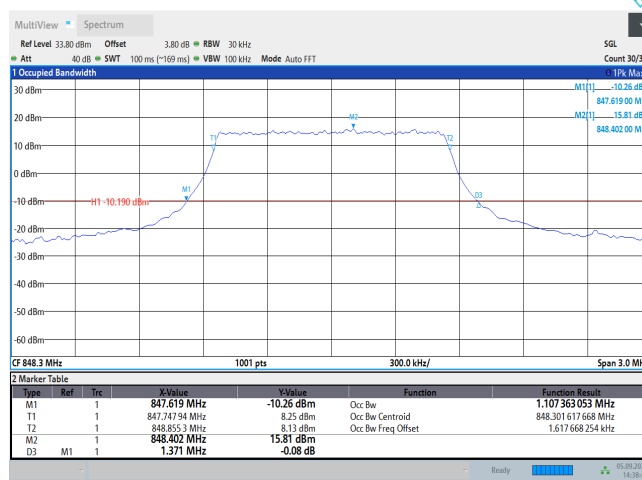
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Band5-1.4MHz-16QAM-20525-6RB#0



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



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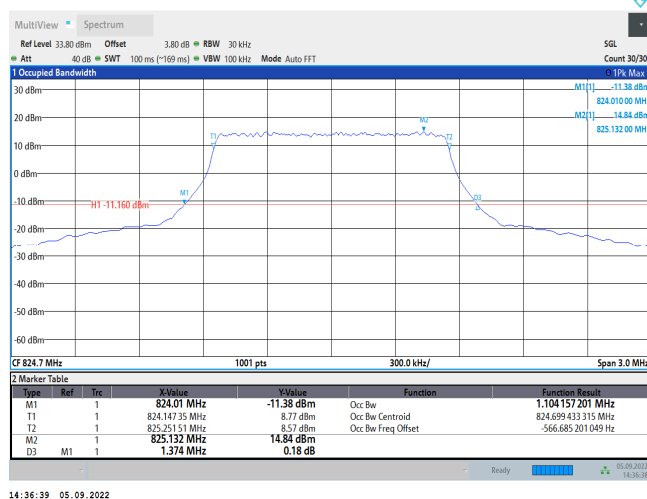
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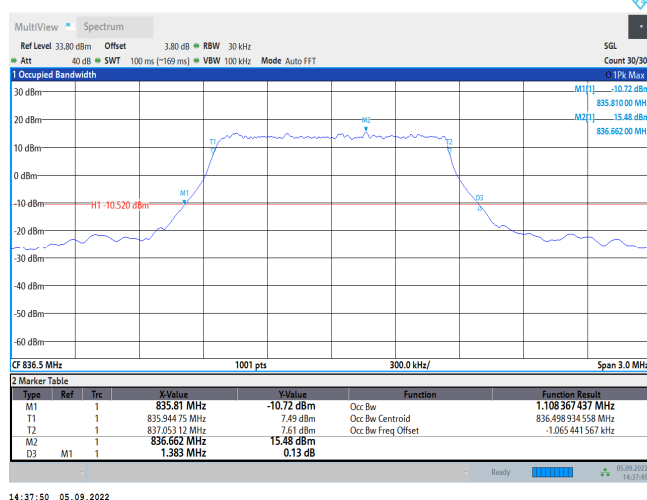
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Band5-1.4MHz-64QAM-20407-6RB#0



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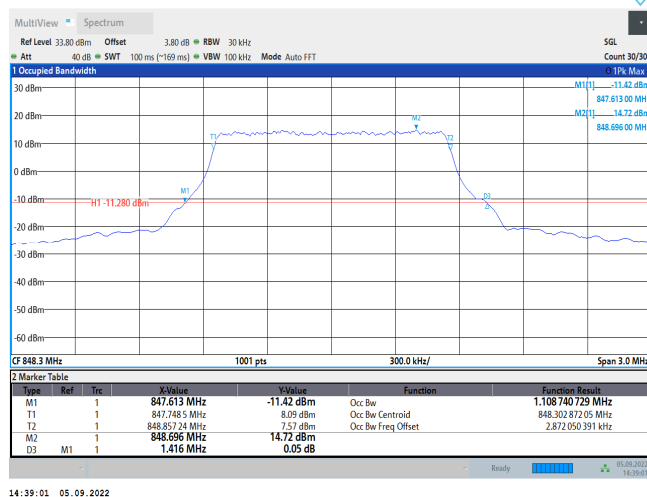
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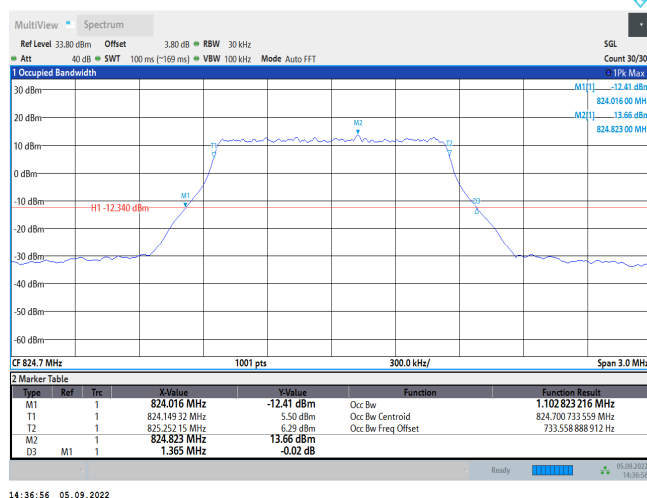
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Band5-1.4MHz-64QAM-20643-6RB#0



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Band5-1.4MHz-256QAM-20407-6RB#0



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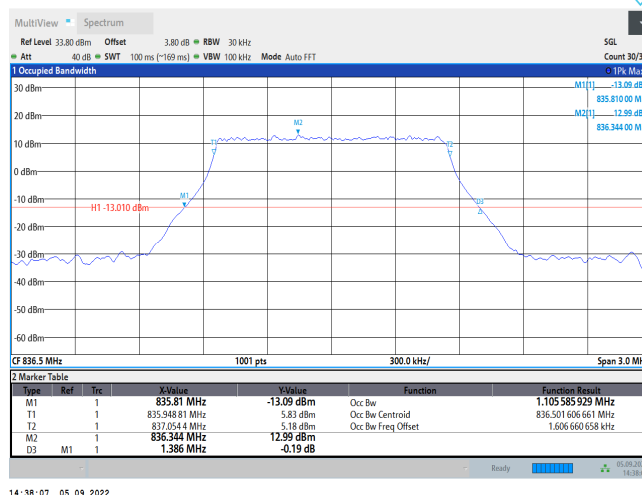
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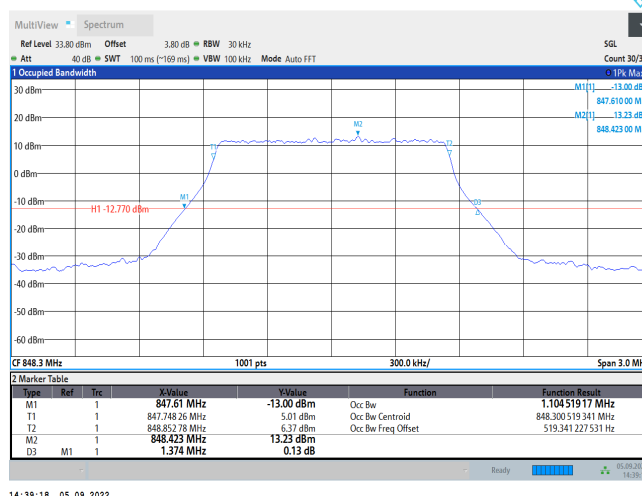
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Band5-1.4MHz-256QAM-20525-6RB#0



Band5-1.4MHz-256QAM-20643-6RB#0



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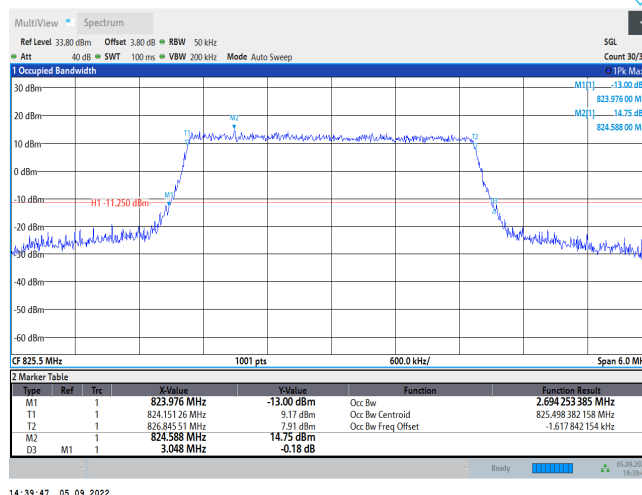
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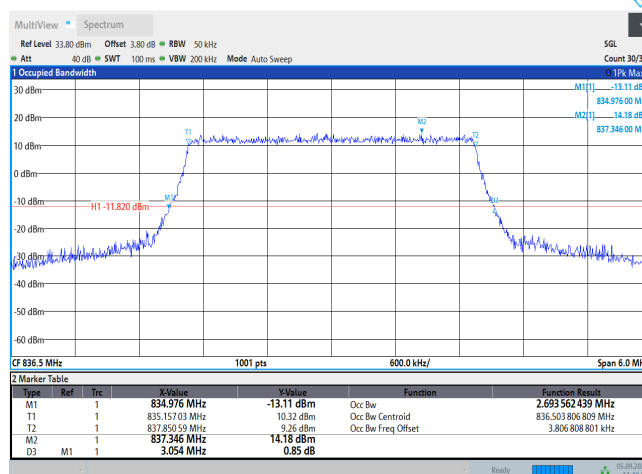
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14:39:47 05.09.2022

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



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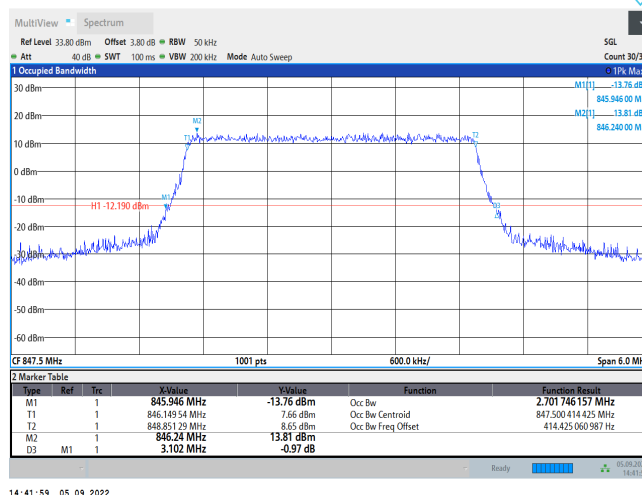
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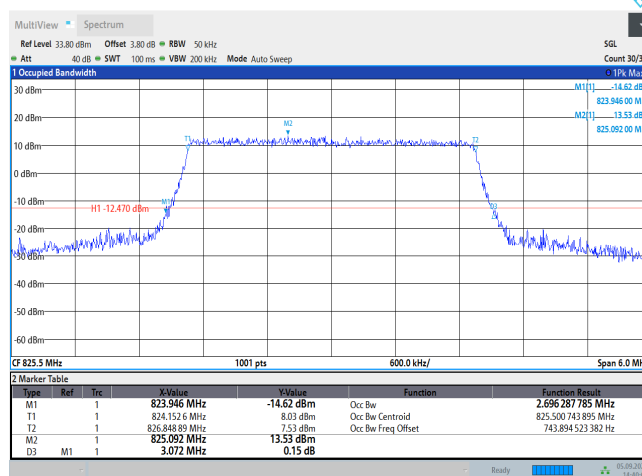
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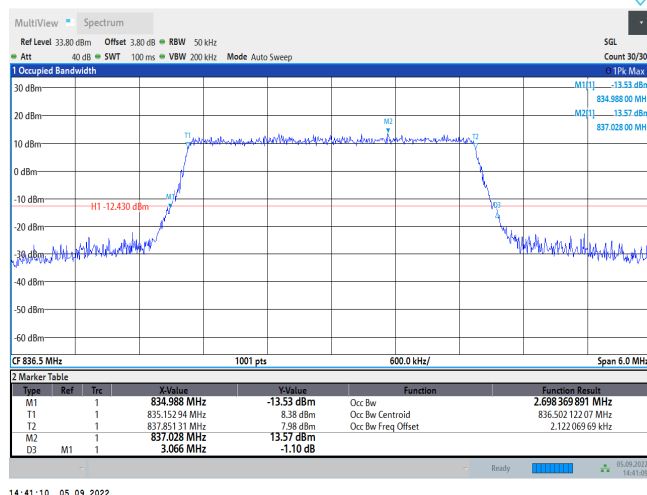
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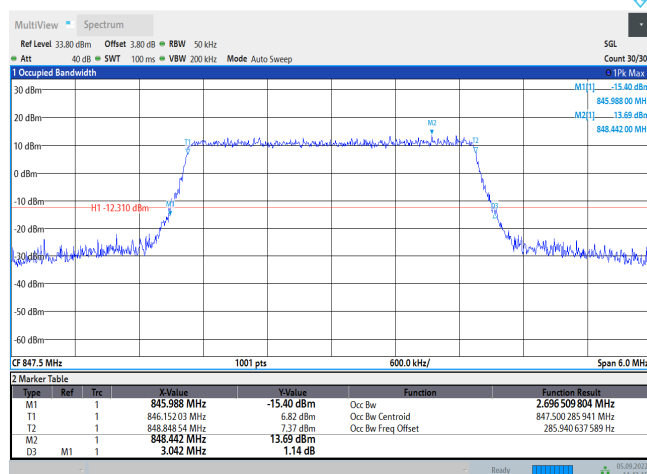
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Band5-3MHz-16QAM-20635-15RB#0



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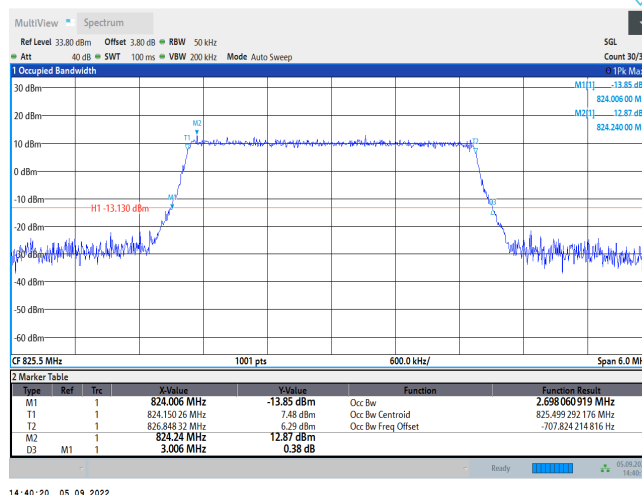
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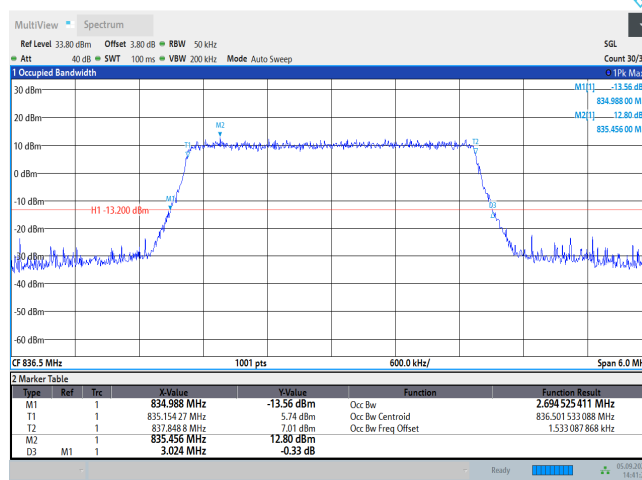
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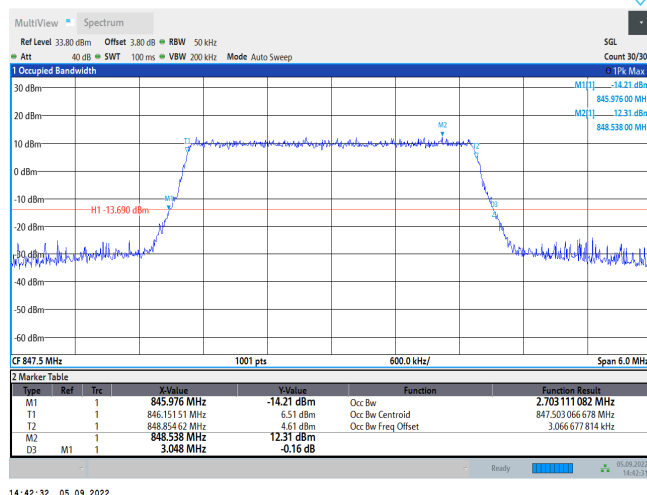
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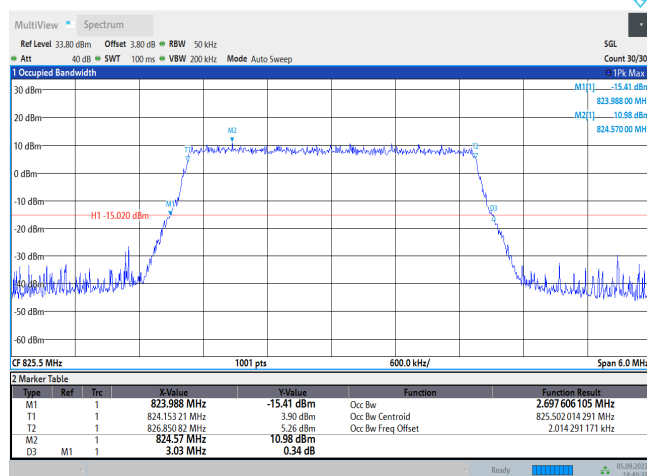
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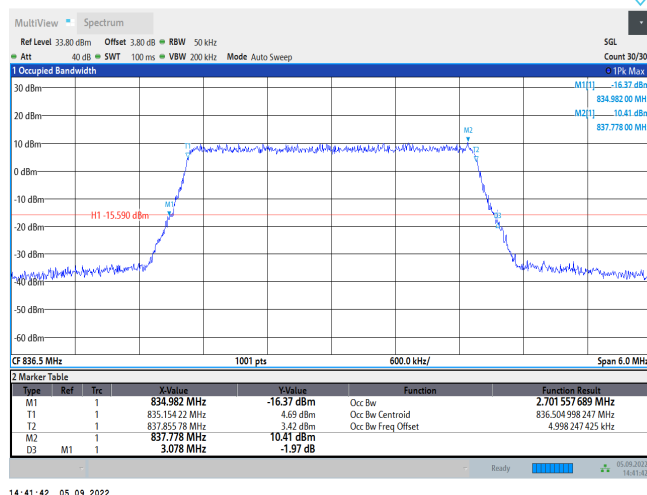
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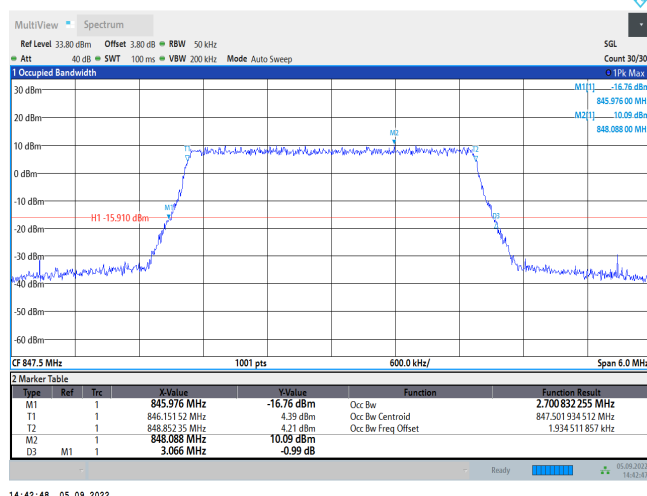
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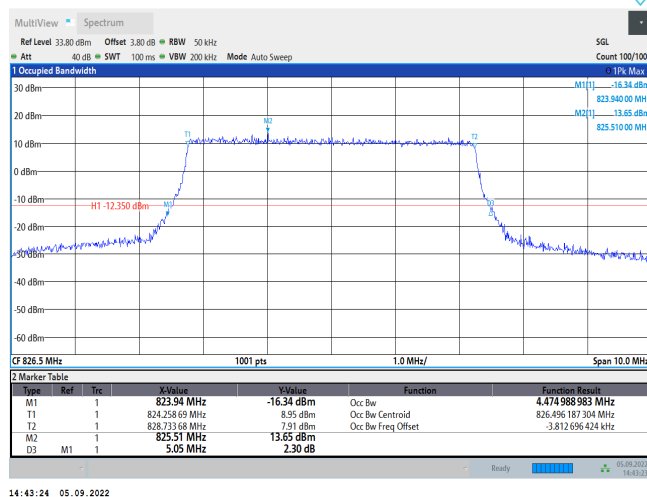
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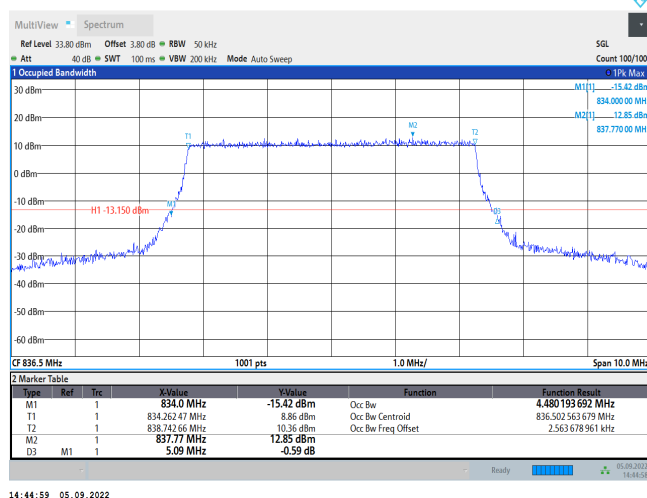
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Band5-5MHz-QPSK-20425-25RB#0



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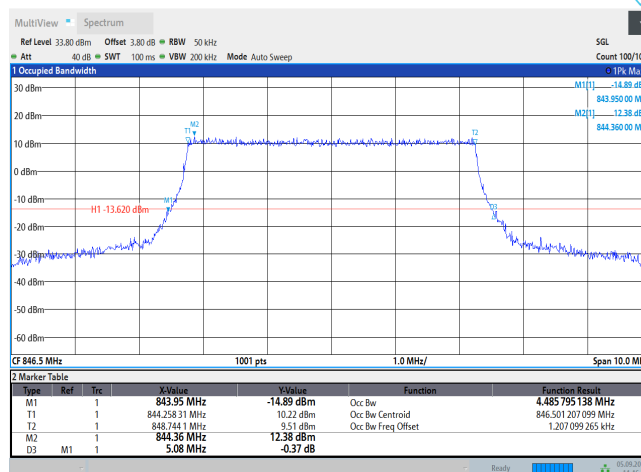
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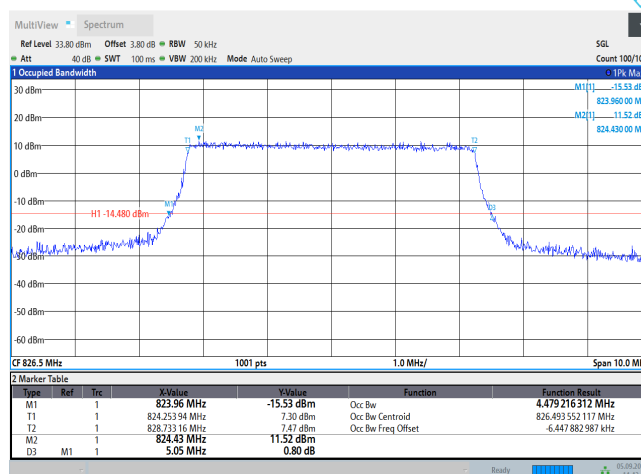
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Band5-5MHz-16QAM-20425-25RB#0



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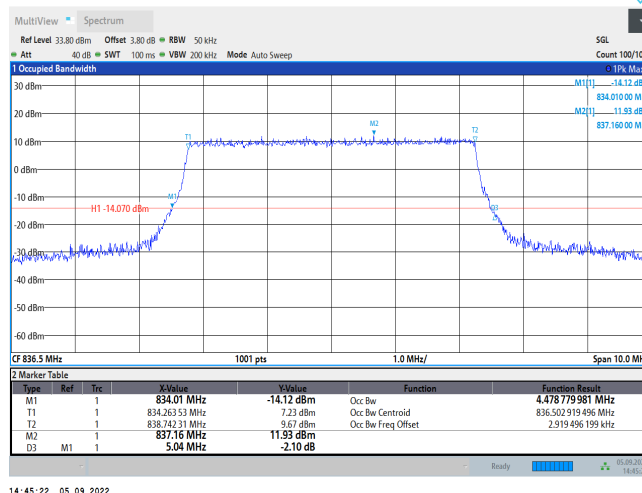
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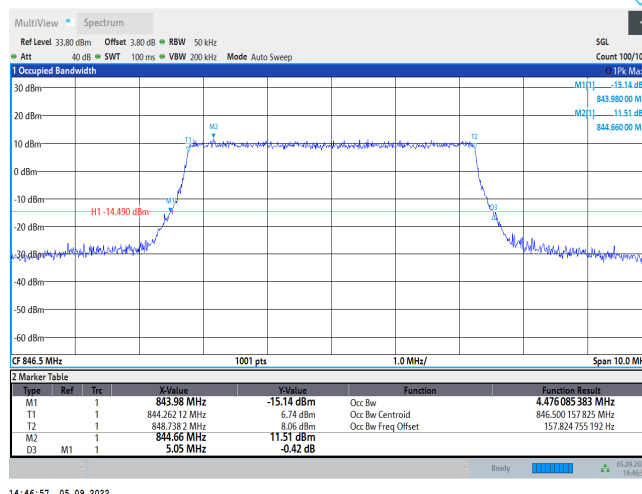
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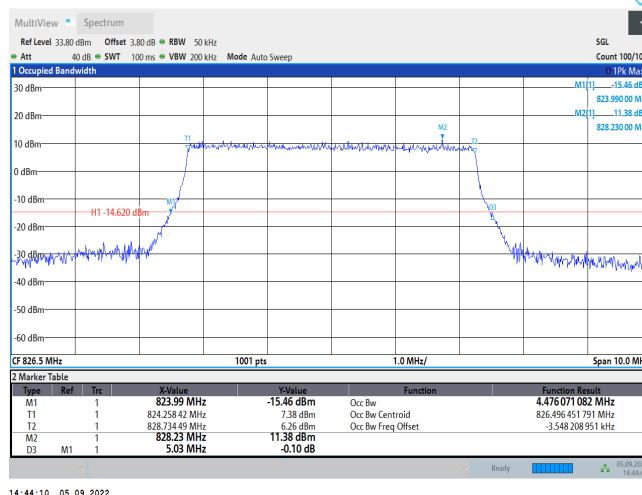
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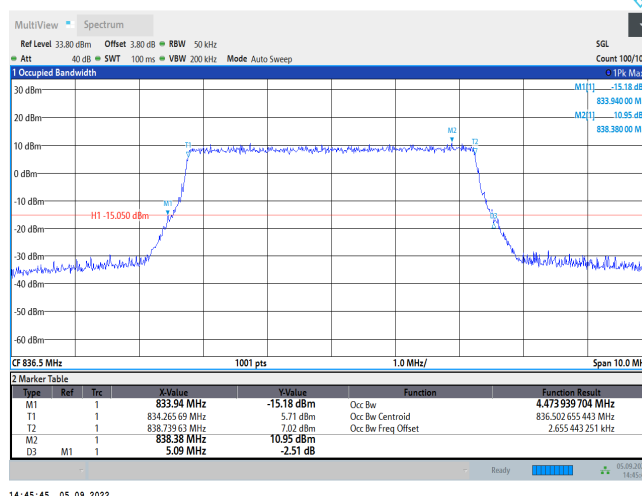
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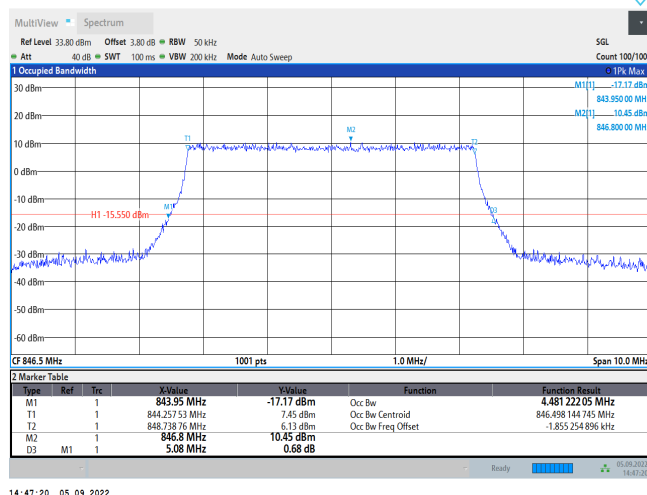
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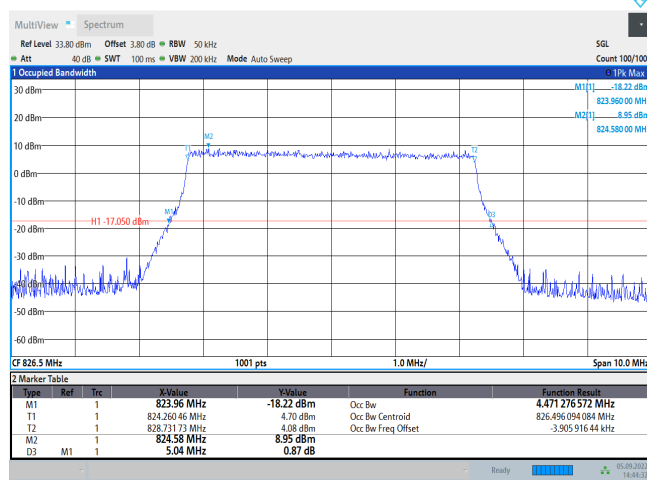
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Band5-5MHz-256QAM-20425-25RB#0



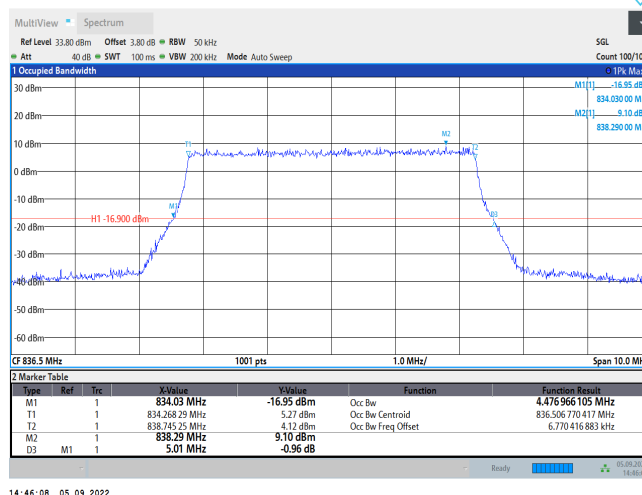
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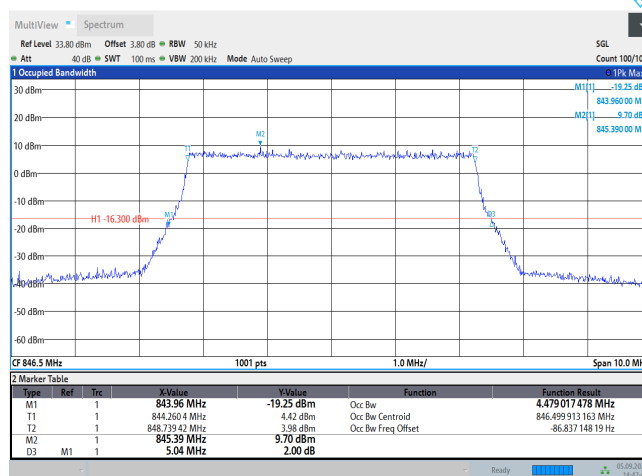
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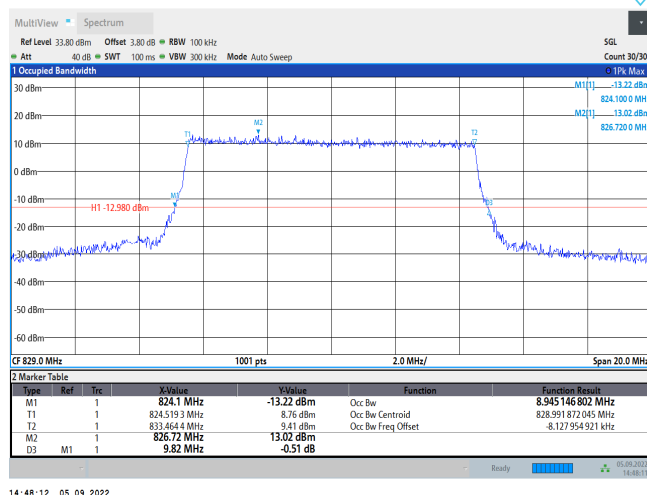
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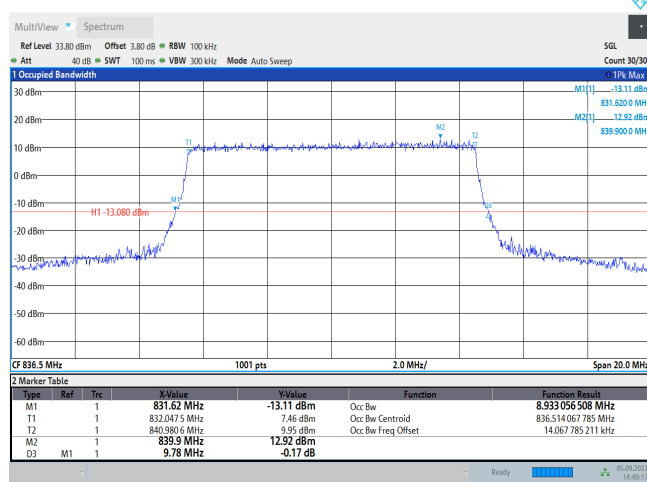
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Band5-10MHz-QPSK-20525-50RB#0



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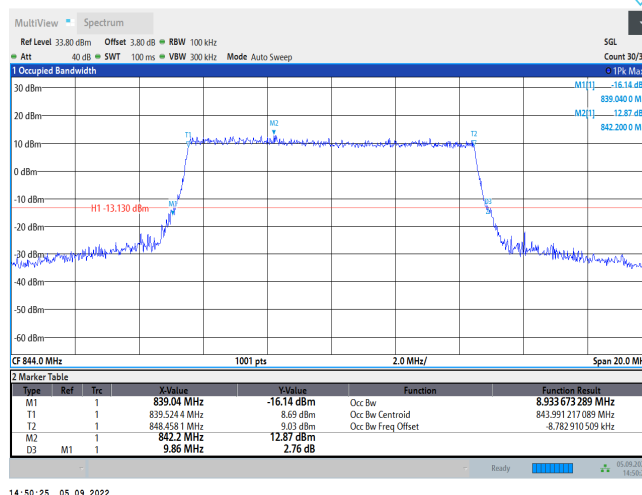
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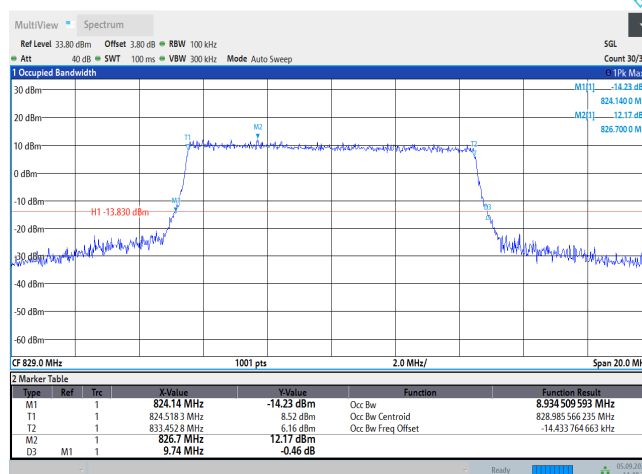
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Band5-10MHz-16QAM-20450-50RB#0



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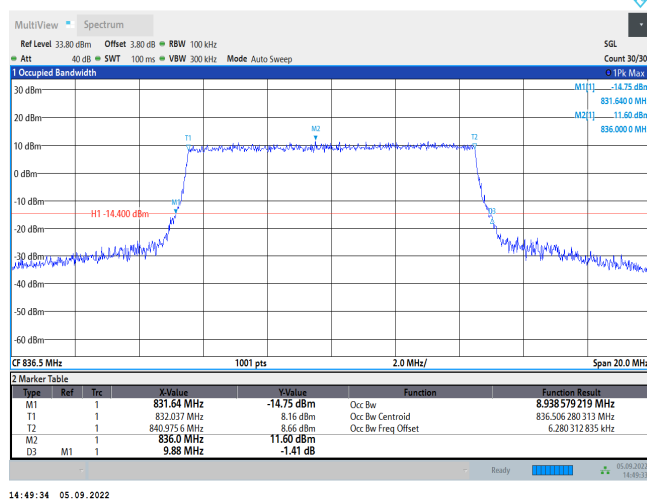
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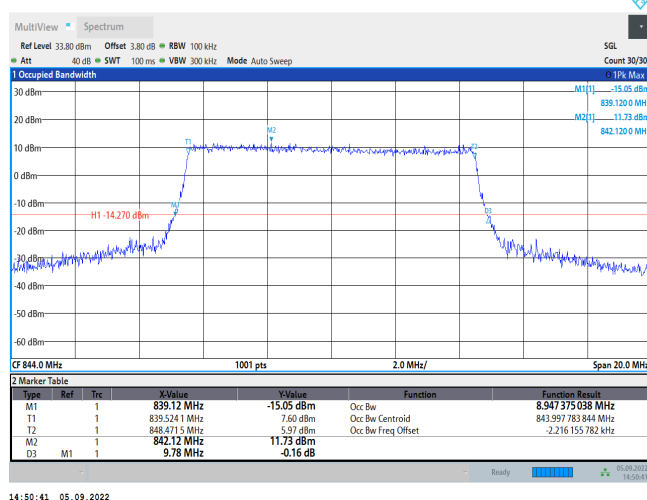
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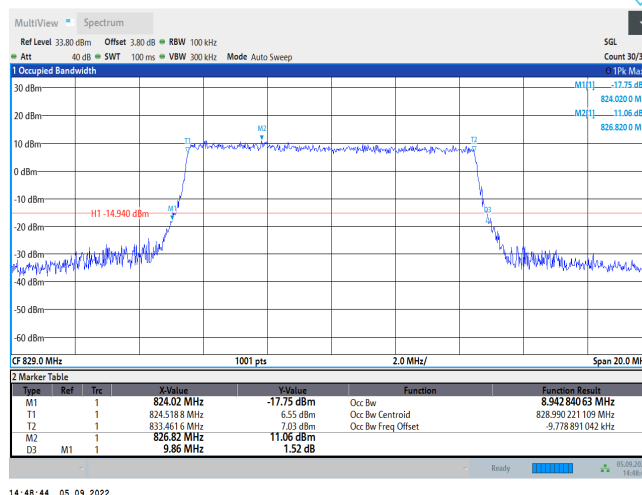
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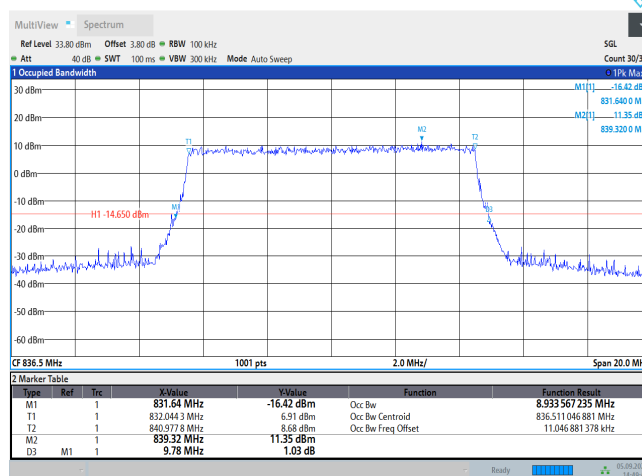
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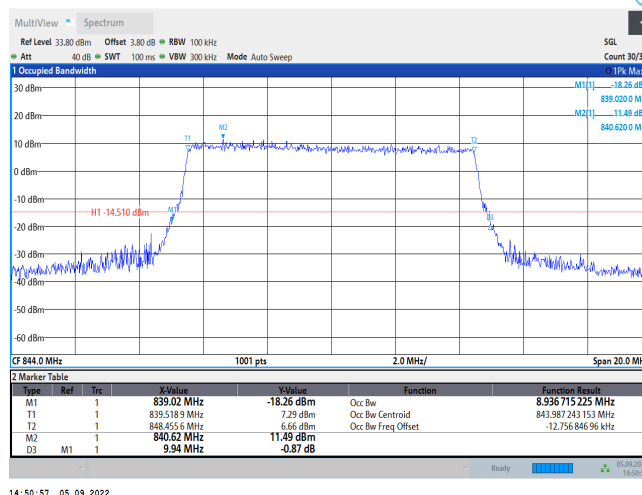
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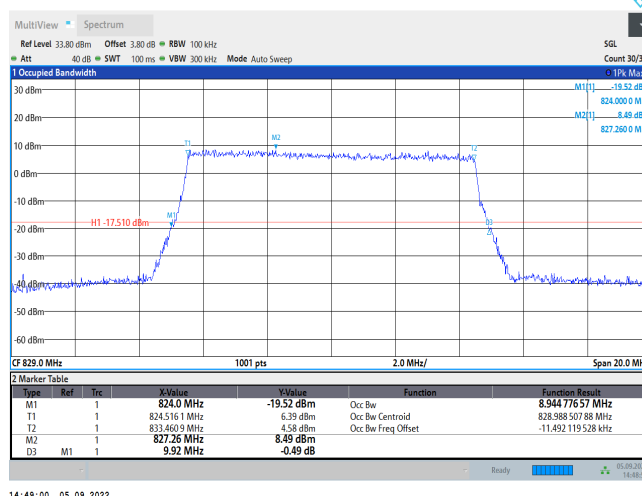
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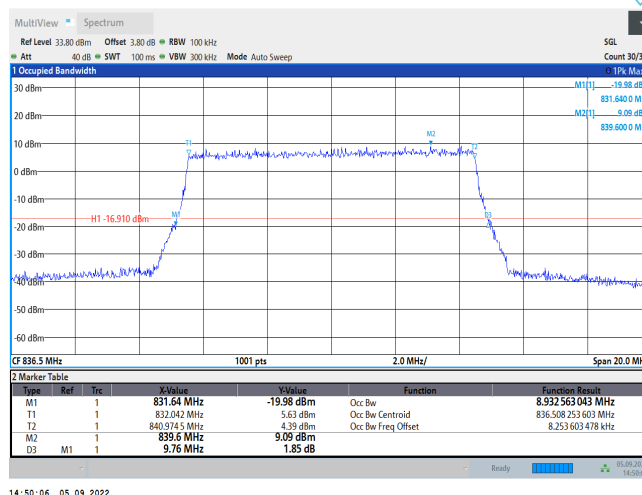
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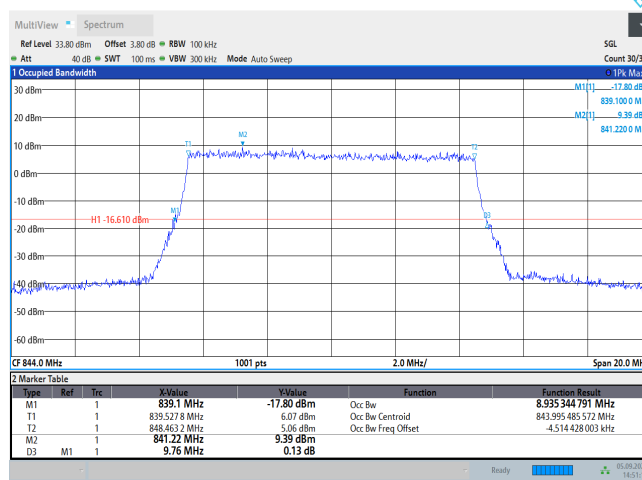
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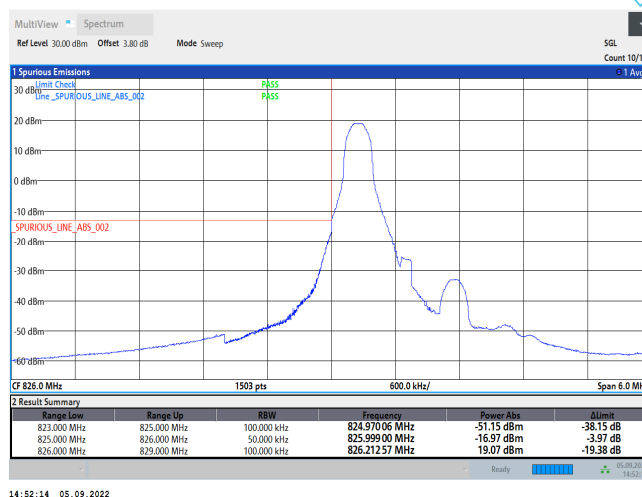
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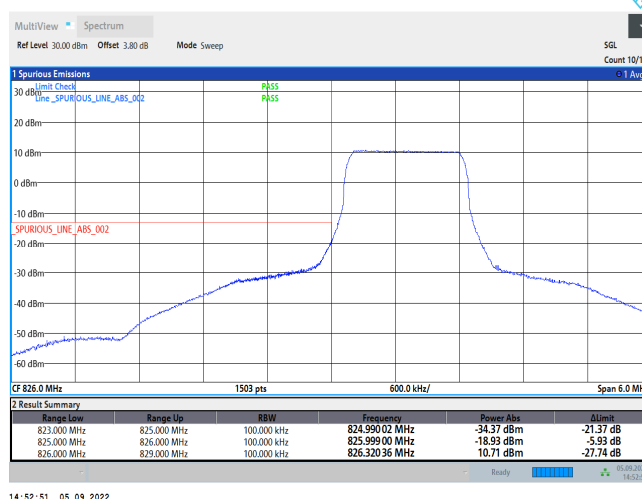
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Test Graphs

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



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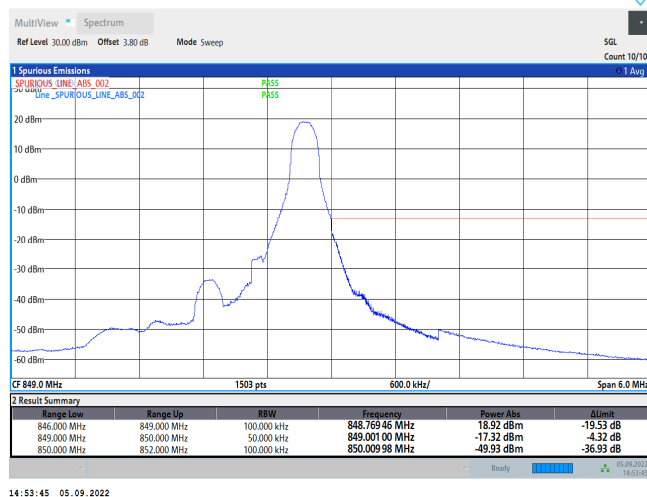
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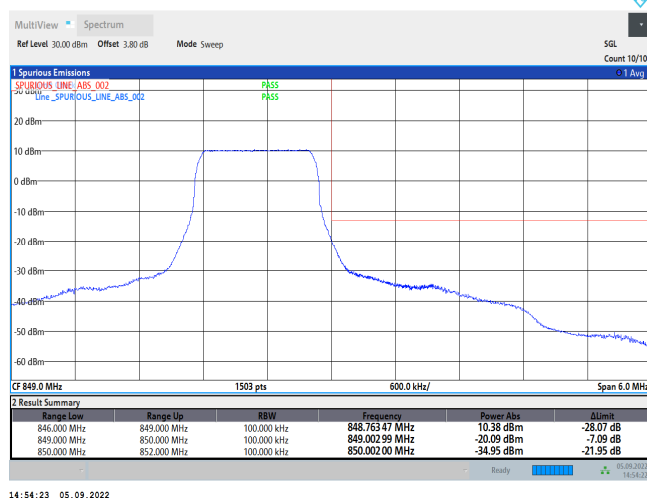
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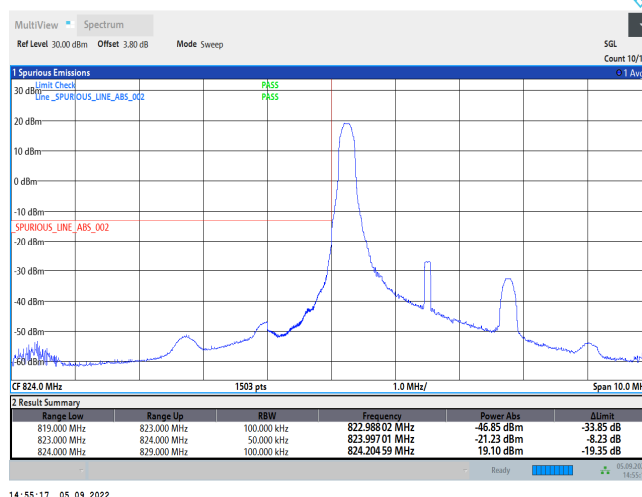
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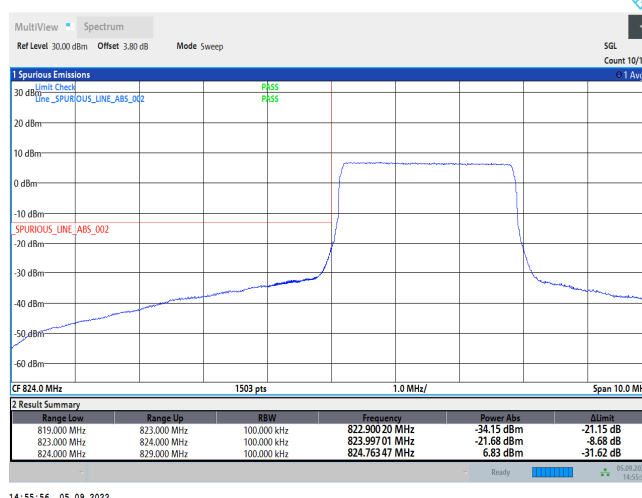
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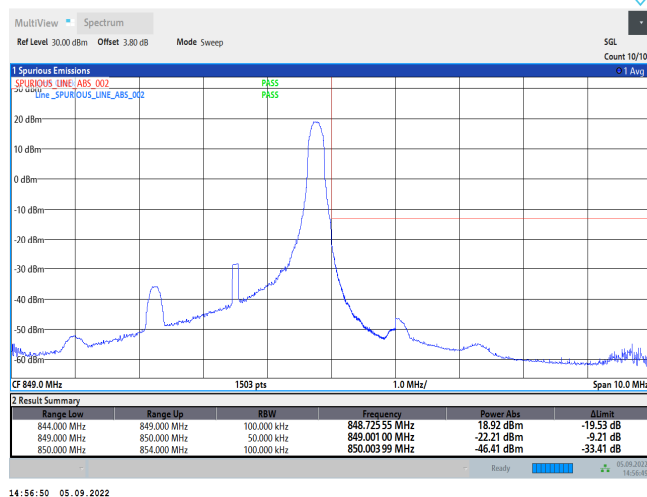
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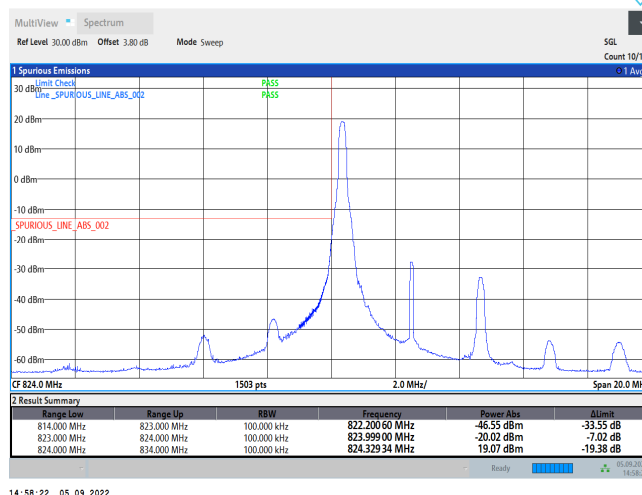
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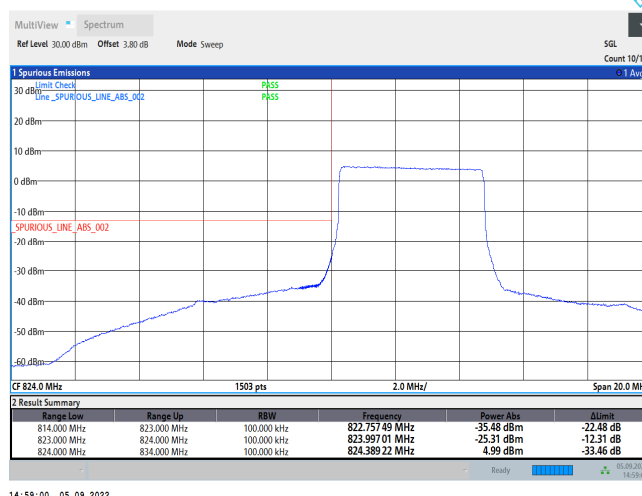
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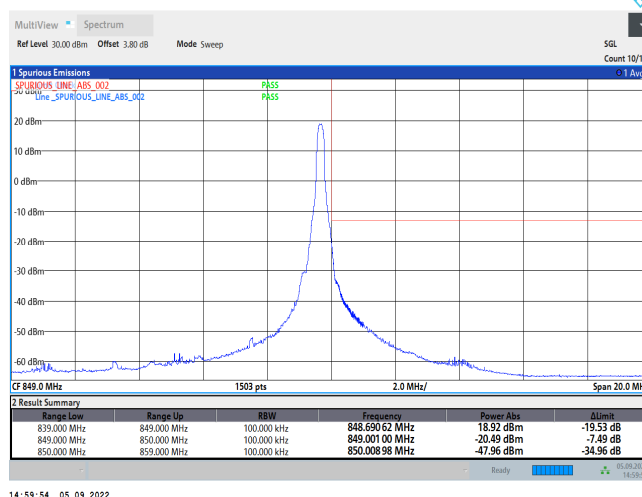
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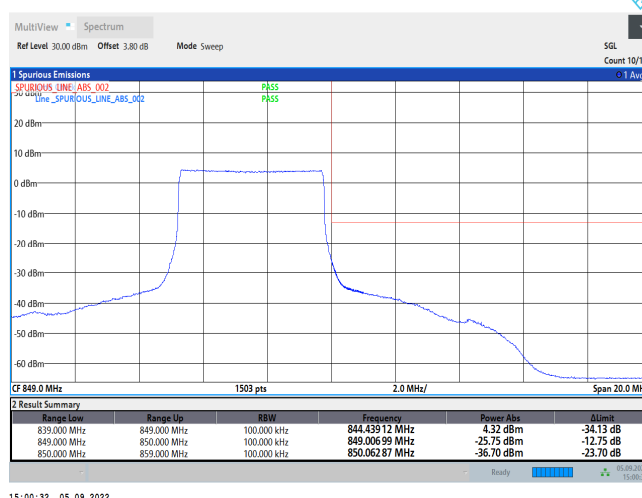
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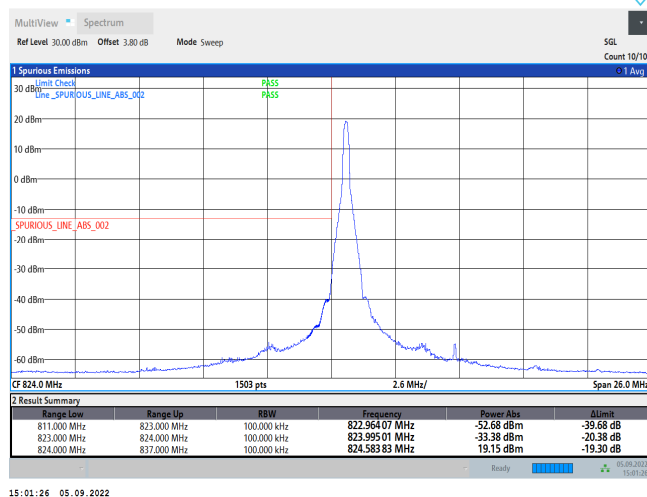
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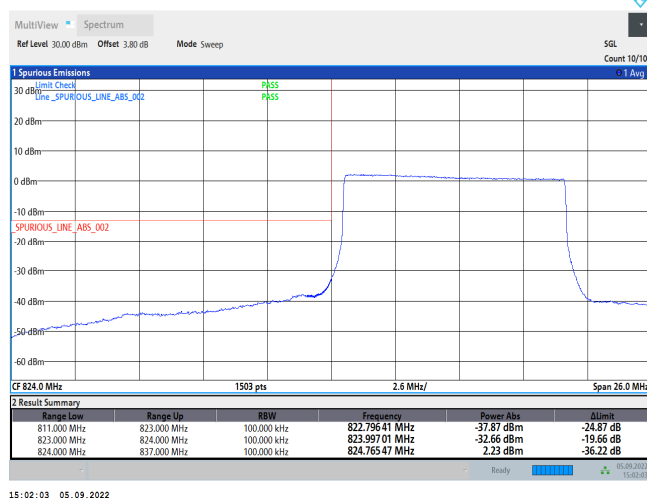
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Band5-10MHz-QPSK-20450-1RB#0



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



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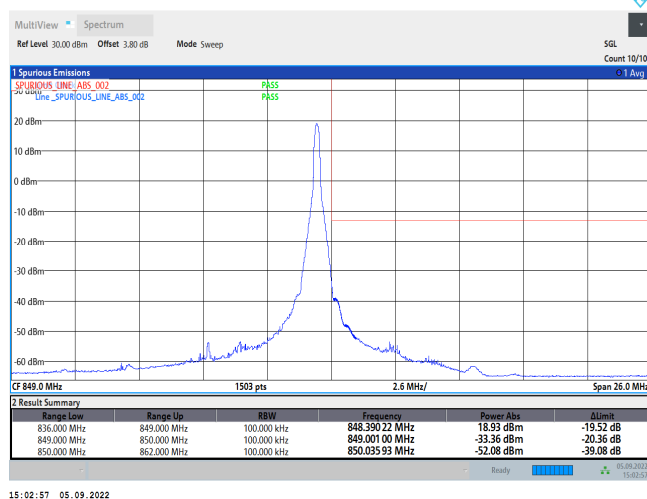
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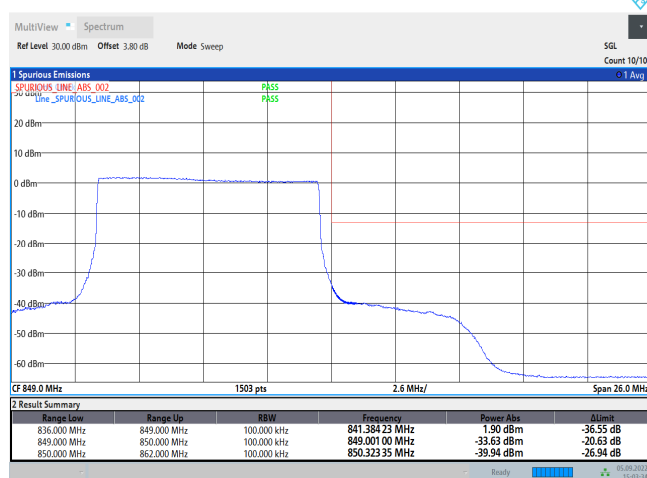
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Band5-10MHz-QPSK-20600-1RB#49



15:02:57 05.09.2022

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



15:03:34 05.09.2022



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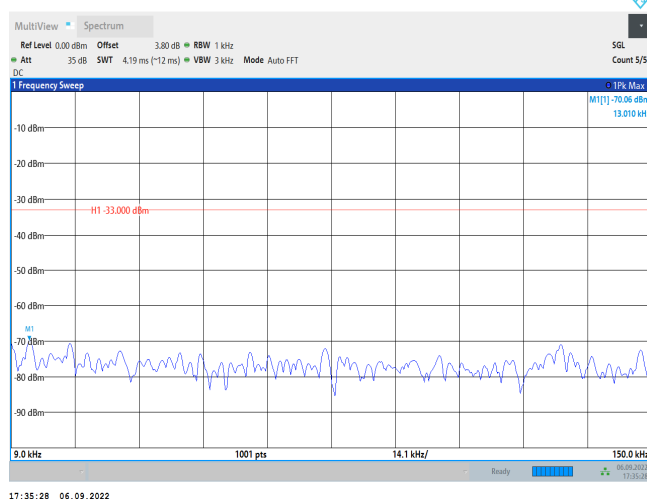
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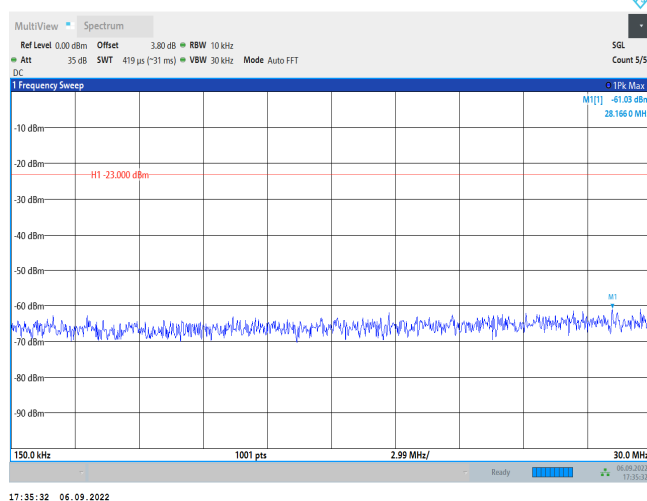
Conducted Spurious Emission

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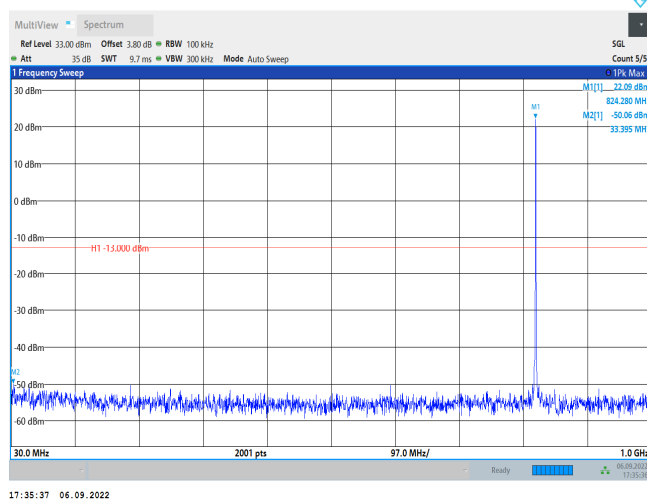
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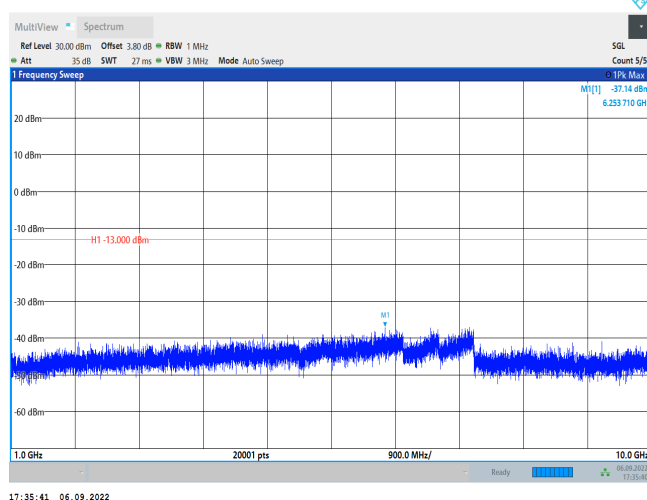
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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



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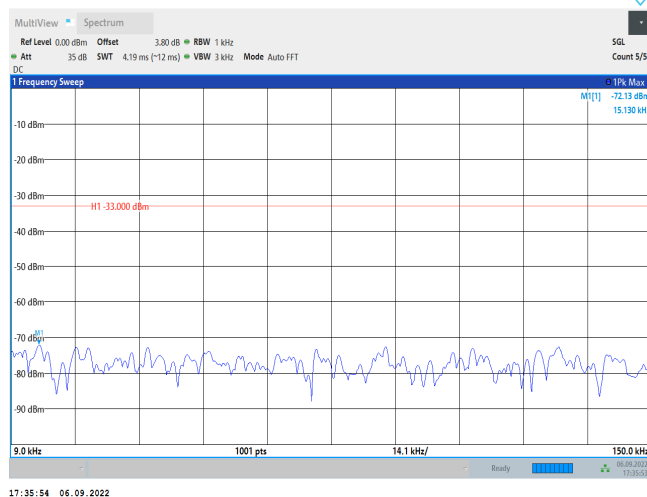
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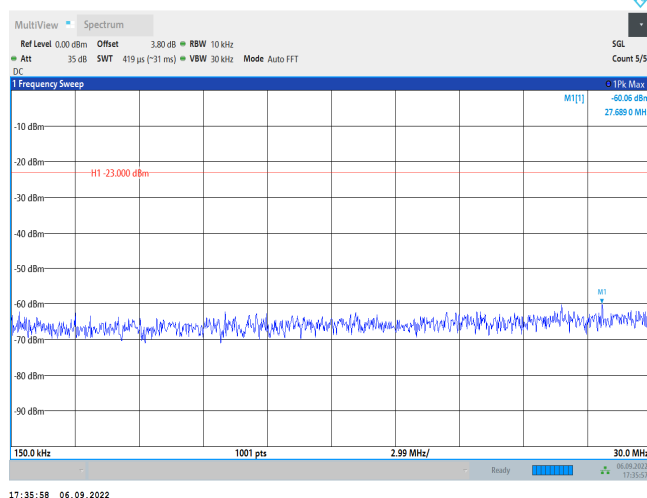
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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



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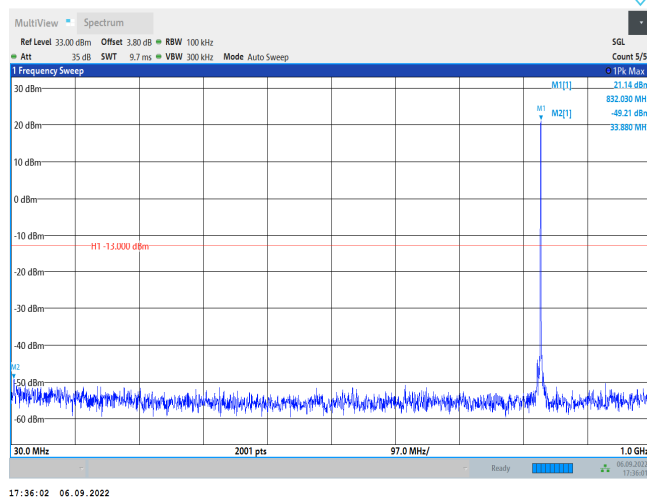
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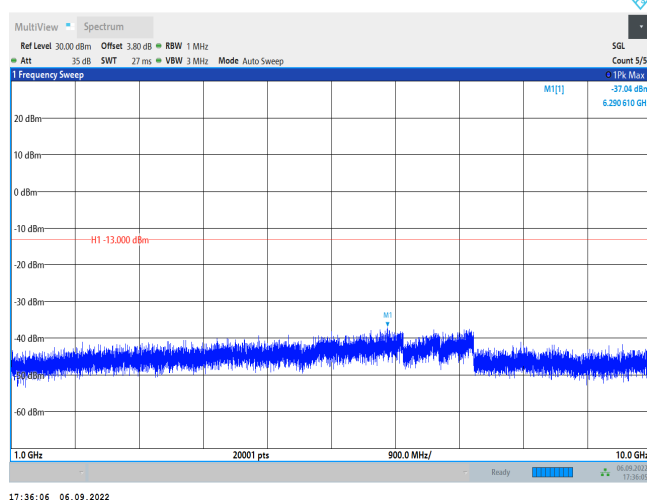
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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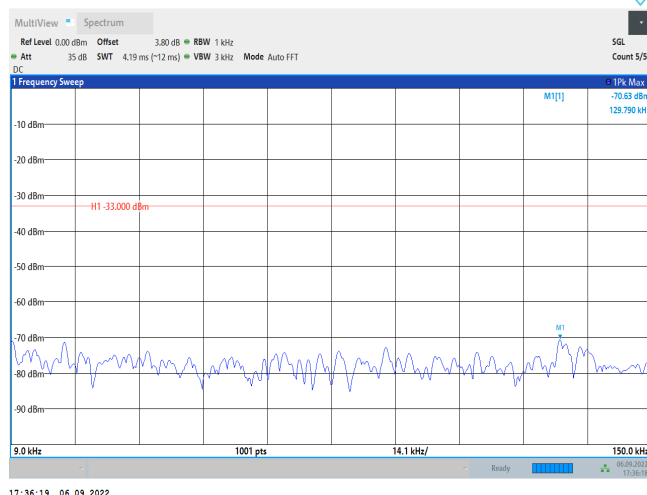
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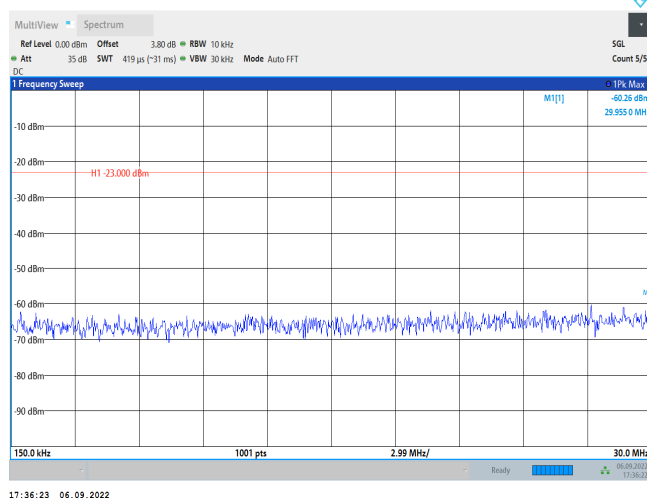
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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



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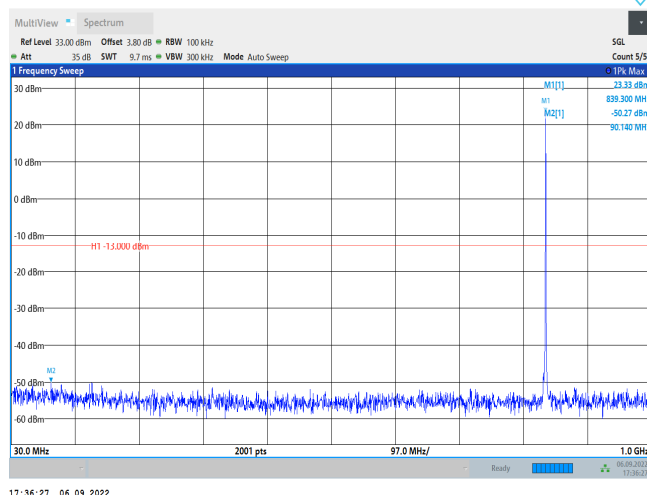
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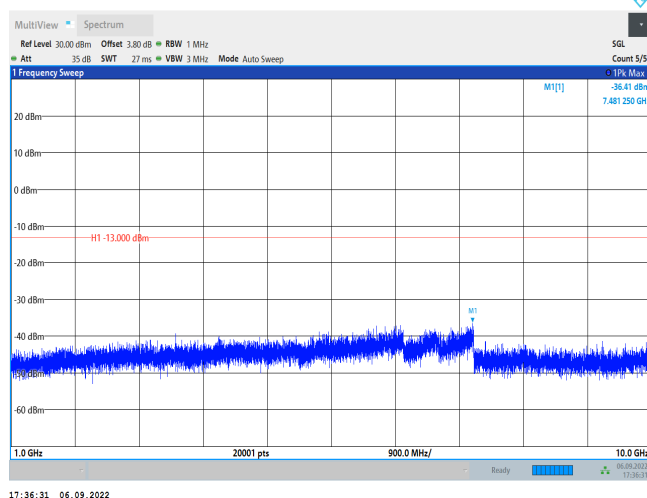
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	65.86	-48.22	25.37	-52.25	-13.00	39.25	215	295	Horizontal
2	2473.7700	50.07	-47.32	27.69	-64.82	-13.00	51.82	145	357	Horizontal
3	3298.3600	50.47	-46.68	29.56	-61.91	-13.00	48.91	236	216	Horizontal
4	4122.9500	49.37	-45.91	30.99	-60.82	-13.00	47.82	255	360	Horizontal
5	4947.5400	49.35	-45.69	32.73	-58.87	-13.00	45.87	145	147	Horizontal
6	5772.1300	49.48	-44.64	33.65	-56.77	-13.00	43.77	192	121	Horizontal

Test Band = LTE Band5_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	67.96	-48.22	25.37	-50.15	-13.00	37.15	284	215	Vertical
2	2473.7700	50.59	-47.32	27.69	-64.30	-13.00	51.30	154	108	Vertical
3	3298.3600	51.51	-46.68	29.56	-60.87	-13.00	47.87	126	254	Vertical
4	4122.9500	49.09	-45.91	30.99	-61.10	-13.00	48.10	295	296	Vertical
5	4947.5400	48.78	-45.69	32.73	-59.44	-13.00	46.44	175	310	Vertical
6	5772.1300	47.92	-44.64	33.65	-58.33	-13.00	45.33	222	96	Vertical



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Test Band = LTE Band5_ TM1**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	70.82	-48.20	25.38	-47.27	-13.00	34.27	214	105	Horizontal
2	2496.2700	51.11	-47.28	27.76	-63.67	-13.00	50.67	261	145	Horizontal
3	3328.3600	49.96	-46.64	29.52	-62.42	-13.00	49.42	186	277	Horizontal
4	4160.4500	48.37	-45.94	31.04	-61.79	-13.00	48.79	145	318	Horizontal
5	4992.5400	48.88	-45.79	32.86	-59.31	-13.00	46.31	291	105	Horizontal
6	5824.6300	46.88	-44.74	33.80	-59.32	-13.00	46.32	131	263	Horizontal

Test Band = LTE Band5_ TM1**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	71.83	-48.20	25.38	-46.26	-13.00	33.26	254	213	Vertical
2	2496.2700	50.04	-47.28	27.76	-64.74	-13.00	51.74	125	52	Vertical
3	3328.3600	50.53	-46.64	29.52	-61.85	-13.00	48.85	185	294	Vertical
4	4160.4500	49.71	-45.94	31.04	-60.45	-13.00	47.45	142	294	Vertical
5	4992.5400	48.58	-45.79	32.86	-59.61	-13.00	46.61	261	80	Vertical
6	5824.6300	48.15	-44.74	33.80	-58.05	-13.00	45.05	291	92	Vertical



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Test Band = LTE Band5_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	76.40	-48.18	25.38	-41.66	-13.00	28.66	210	106	Horizontal
2	2518.7700	51.96	-47.21	27.83	-62.67	-13.00	49.67	236	13	Horizontal
3	3358.3600	49.79	-46.60	29.48	-62.59	-13.00	49.59	251	134	Horizontal
4	4197.9500	48.73	-45.96	31.10	-61.39	-13.00	48.39	142	308	Horizontal
5	5037.5400	48.82	-45.65	32.90	-59.19	-13.00	46.19	185	360	Horizontal
6	5887.1300	49.45	-44.93	33.92	-56.82	-13.00	43.82	142	357	Horizontal

Test Band = LTE Band5_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1678.8571	78.94	-48.19	25.38	-39.12	-13.00	26.12	284	214	Vertical
2	2518.7700	50.92	-47.21	27.83	-63.71	-13.00	50.71	162	162	Vertical
3	3358.3600	50.04	-46.60	29.48	-62.34	-13.00	49.34	133	200	Vertical
4	4197.9500	48.60	-45.96	31.10	-61.52	-13.00	48.52	154	174	Vertical
5	5037.5400	49.14	-45.65	32.90	-58.87	-13.00	45.87	172	67	Vertical
6	5887.1300	48.81	-44.93	33.92	-57.46	-13.00	44.46	190	53	Vertical



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Test Band = LTE 5A_7A_ TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	44.29	-24.82	25.37	-50.42	-25.00	25.42	215	128	Horizontal
2	2473.7700	46.10	-23.55	27.68	-45.02	-25.00	20.02	236	0	Horizontal
3	3298.3600	49.54	-46.45	29.56	-62.61	-25.00	37.61	261	359	Horizontal
4	5002.1800	48.30	-45.63	32.88	-59.71	-25.00	34.71	145	360	Horizontal
5	7503.2700	42.61	-43.13	36.44	-59.34	-25.00	34.34	251	244	Horizontal
6	10004.3600	36.17	-39.23	38.50	-59.83	-25.00	34.83	158	335	Horizontal

Test Band = LTE 5A_7A_ TM1**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	44.13	-24.82	25.37	-50.58	-25.00	25.58	126	0	Vertical
2	2473.7700	46.84	-23.55	27.68	-44.28	-25.00	19.28	142	43	Vertical
3	3298.3600	50.60	-46.45	29.56	-61.55	-25.00	36.55	136	336	Vertical
4	5002.1800	48.32	-45.63	32.88	-59.69	-25.00	34.69	251	167	Vertical
5	7503.2700	42.80	-43.13	36.44	-59.15	-25.00	34.15	148	200	Vertical
6	10004.3600	36.56	-39.23	38.50	-59.44	-25.00	34.44	162	228	Vertical



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Test Band = LTE 5A_7A_TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	44.05	-24.78	25.38	-50.62	-25.00	25.62	248	158	Horizontal
2	2496.2700	45.77	-23.54	27.76	-45.27	-25.00	20.27	175	249	Horizontal
3	3328.3600	49.53	-46.41	29.52	-62.62	-25.00	37.62	146	354	Horizontal
4	5052.1800	47.95	-45.50	32.91	-59.90	-25.00	34.90	266	259	Horizontal
5	7578.2700	43.52	-42.97	36.40	-58.31	-25.00	33.31	251	45	Horizontal
6	10104.3600	36.47	-39.14	38.66	-59.27	-25.00	34.27	199	360	Horizontal

Test Band = LTE 5A_7A_TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	44.76	-24.78	25.38	-49.91	-25.00	24.91	147	357	Vertical
2	2496.2700	46.14	-23.54	27.76	-44.90	-25.00	19.90	133	0	Vertical
3	3328.3600	48.70	-46.41	29.52	-63.45	-25.00	38.45	215	197	Vertical
4	5052.1800	48.02	-45.50	32.91	-59.83	-25.00	34.83	164	60	Vertical
5	7578.2700	43.04	-42.97	36.40	-58.79	-25.00	33.79	184	243	Vertical
6	10104.3600	37.14	-39.14	38.66	-58.60	-25.00	33.60	176	197	Vertical



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Test Band = LTE 5A_7A_TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	43.95	-24.75	25.38	-50.68	-25.00	25.68	145	109	Horizontal
2	2518.7700	45.73	-23.40	27.83	-45.10	-25.00	20.10	268	0	Horizontal
3	3358.3600	49.86	-46.35	29.48	-62.27	-25.00	37.27	158	360	Horizontal
4	5102.1800	45.54	-45.37	32.94	-62.15	-25.00	37.15	194	120	Horizontal
5	7653.2700	41.98	-43.03	36.49	-59.82	-25.00	34.82	172	44	Horizontal
6	10204.3600	36.17	-39.48	38.81	-59.76	-25.00	34.76	130	3	Horizontal

Test Band = LTE 5A_7A_TM1**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	44.16	-24.75	25.38	-50.47	-25.00	25.47	145	136	Vertical
2	2518.7700	47.26	-23.40	27.83	-43.57	-25.00	18.57	195	47	Vertical
3	3358.3600	48.11	-46.35	29.48	-64.02	-25.00	39.02	184	245	Vertical
4	5102.1800	45.66	-45.37	32.94	-62.03	-25.00	37.03	172	31	Vertical
5	7653.2700	41.03	-43.03	36.49	-60.77	-25.00	35.77	122	31	Vertical
6	10204.3600	36.72	-39.48	38.81	-59.21	-25.00	34.21	163	214	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	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.70	-0.000837	±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	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	1.00	0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	1.20	0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	1.50	0.001793	±2.5	PASS

---End of Attachment---



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