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	23.13	20.56	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.25	20.68	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.11	20.54	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.26	19.69	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.05	20.48	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.35	20.78	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.11	20.54	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.27	19.7	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.03	20.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.12	20.55	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.07	20.5	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.16	19.59	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.46	19.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.52	19.95	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.4	19.83	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.34	18.77	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.37	19.8	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.45	19.88	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.48	19.91	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.29	18.72	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.45	19.88	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.53	19.96	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.45	19.88	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.29	18.72	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.63	19.06	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.56	18.99	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.38	18.81	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.29	17.72	38.45	PASS

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Band5	1.4MHz	64QAM	20525	1RB#0	21.36	18.79	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.46	18.89	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.29	18.72	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.25	17.68	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.37	18.8	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.31	18.74	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.25	18.68	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.19	17.62	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.28	20.71	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.29	20.72	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.19	20.62	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.3	19.73	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.23	20.66	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.25	20.68	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.15	20.58	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.29	19.72	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.18	20.61	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.18	20.61	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.05	20.48	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.25	19.68	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.63	20.06	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.69	20.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.46	19.89	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.4	18.83	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.59	20.02	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.65	20.08	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.42	19.85	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.3	18.73	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.47	19.9	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.55	19.98	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.37	19.8	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.31	18.74	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.53	18.96	38.45	PASS

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Band5	3MHz	64QAM	20415	1RB#8	21.62	19.05	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.41	18.84	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.32	17.75	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.52	18.95	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.56	18.99	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.51	18.94	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.31	17.74	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.4	18.83	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.58	19.01	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.44	18.87	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.32	17.75	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.33	20.76	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.22	20.65	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.19	20.62	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.39	19.82	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.3	20.73	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.25	20.68	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.21	20.64	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.24	19.67	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.21	20.64	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.17	20.6	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.16	20.59	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.22	19.65	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.75	20.18	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.6	20.03	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.48	19.91	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.38	18.81	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.67	20.1	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.57	20	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.57	20	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.26	18.69	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.53	19.96	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.55	19.98	38.45	PASS

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Band5	5MHz	16QAM	20625	1RB#24	22.38	19.81	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.21	18.64	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.63	19.06	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.49	18.92	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.5	18.93	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.43	17.86	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.53	18.96	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.37	18.8	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.41	18.84	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.29	17.72	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.38	18.81	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.44	18.87	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.43	18.86	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.22	17.65	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.39	20.82	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.15	20.58	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.15	20.58	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.45	19.88	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.25	20.68	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.28	20.71	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.25	20.68	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.26	19.69	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.2	20.63	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.28	20.71	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.12	20.55	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.2	19.63	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.56	19.99	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.72	20.15	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.5	19.93	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.38	18.81	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.66	20.09	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.57	20	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.5	19.93	38.45	PASS

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Band5	10MHz	16QAM	20525	50RB#0	21.3	18.73	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.64	20.07	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.47	19.9	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.48	19.91	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.31	18.74	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.48	18.91	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.42	18.85	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.43	18.86	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.45	17.88	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.44	18.87	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.46	18.89	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.34	18.77	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.29	17.72	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.44	18.87	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.38	18.81	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.3	18.73	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.28	17.71	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	5.36	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.54	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.14	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.22	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.94	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.60	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.62	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.46	13	PASS

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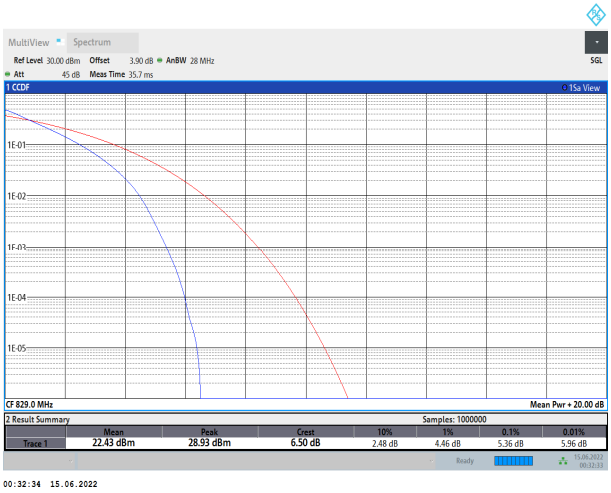
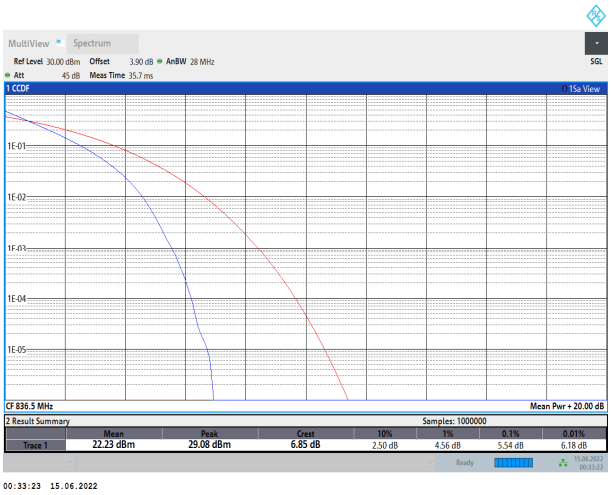
Test Graphs

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



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



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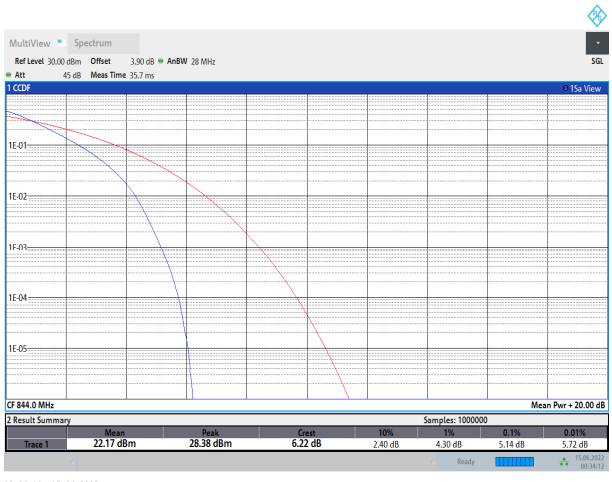
Band5-10MHz-QPSK-20600-50RB#0


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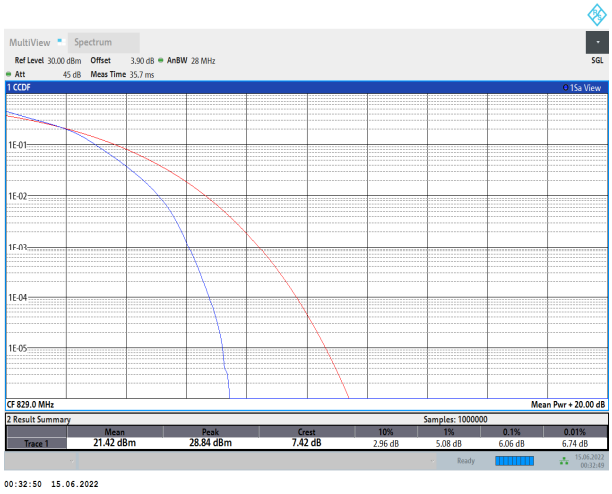

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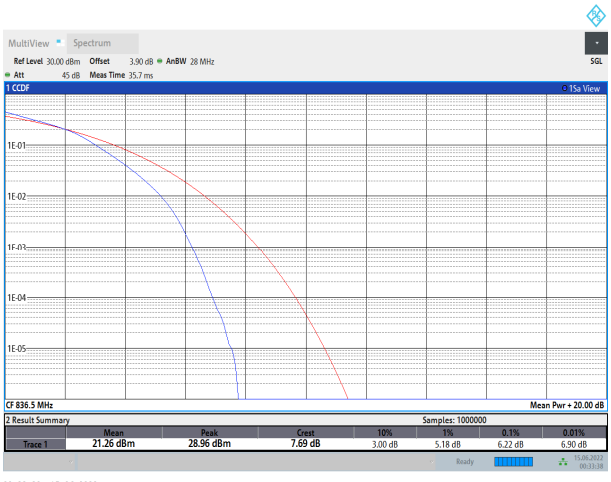
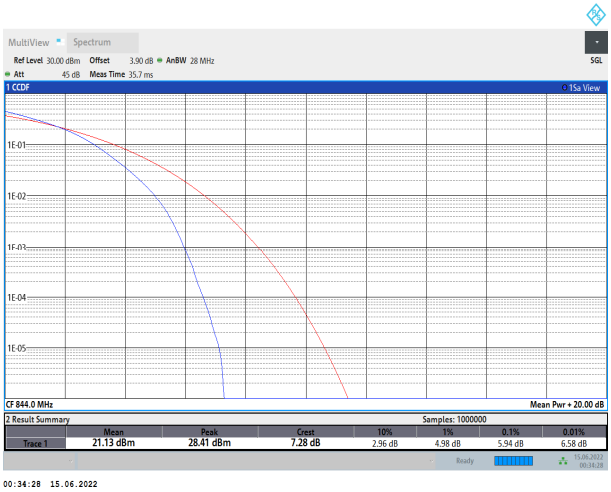
Band5-10MHz-16QAM-20525-50RB#0



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



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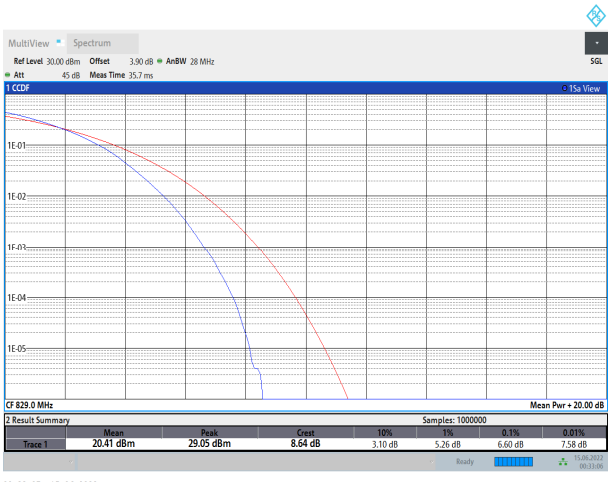
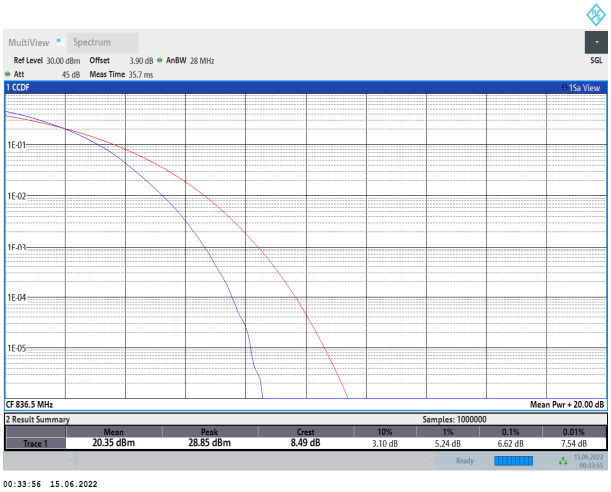
Band5-10MHz-64QAM-20450-50RB#0



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



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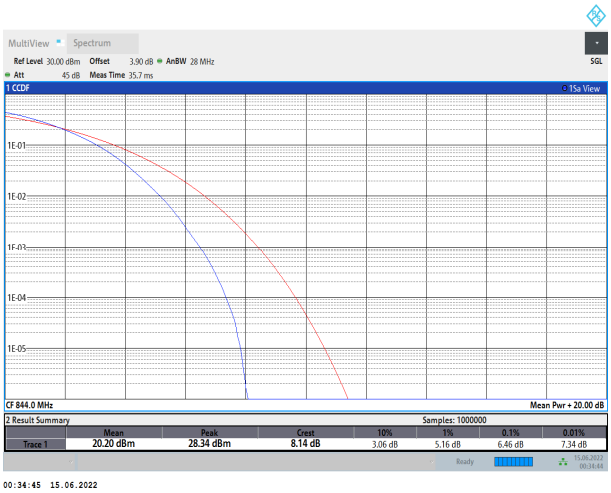
Band5-10MHz-64QAM-20600-50RB#0


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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

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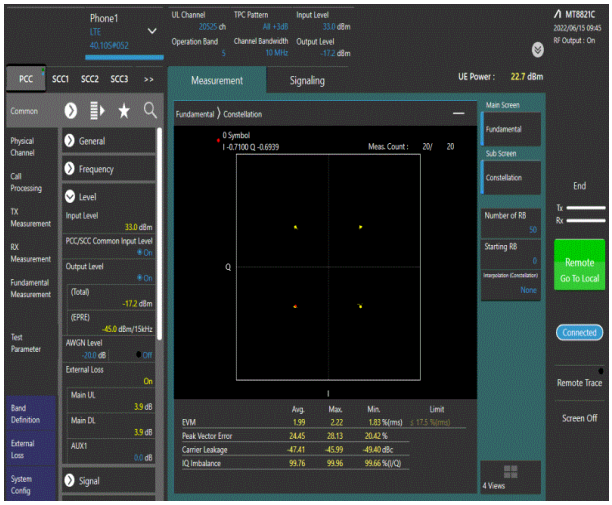
Test Graphs

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


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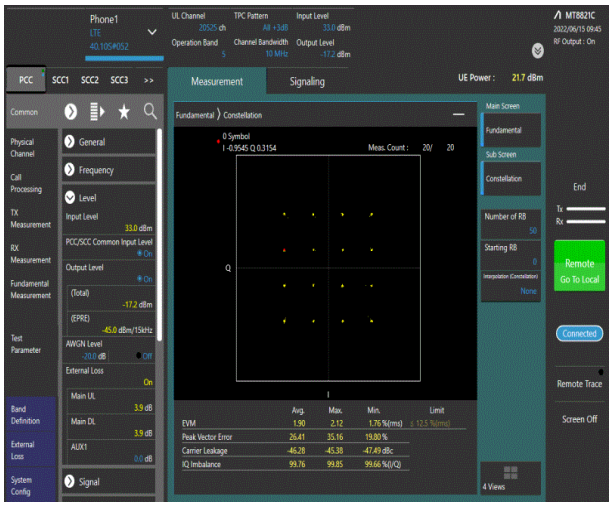

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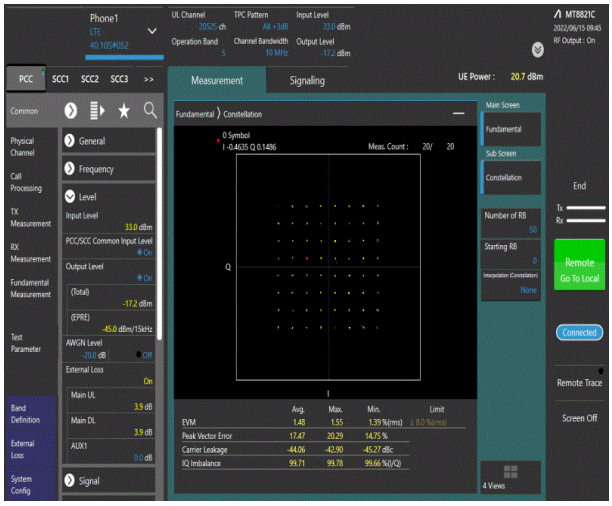

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.084	1.23	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.092	1.24	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.096	1.24	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.090	1.24	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.091	1.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.69	2.97	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.692	2.98	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.695	2.99	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.683	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	2.97	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.690	2.98	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.685	2.98	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.688	2.95	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.688	2.97	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.468	4.88	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.470	4.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.467	4.89	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.465	4.90	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.465	4.90	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.91	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.475	4.91	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.479	4.90	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.478	4.89	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.927	9.60	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.924	9.68	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.902	9.58	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.905	9.62	PASS

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Band5	10MHz	16QAM	20525	50RB#0	8.905	9.62	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.885	9.58	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.919	9.64	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.919	9.62	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.907	9.58	PASS

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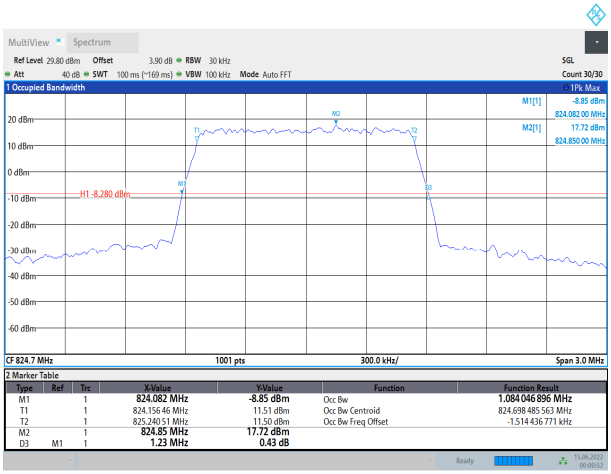
Test Graphs

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



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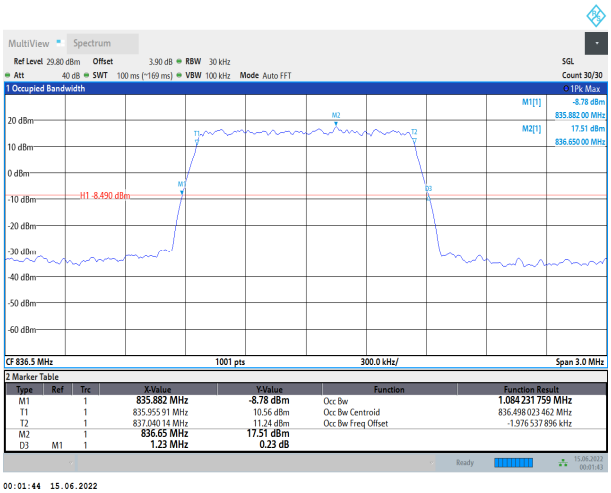

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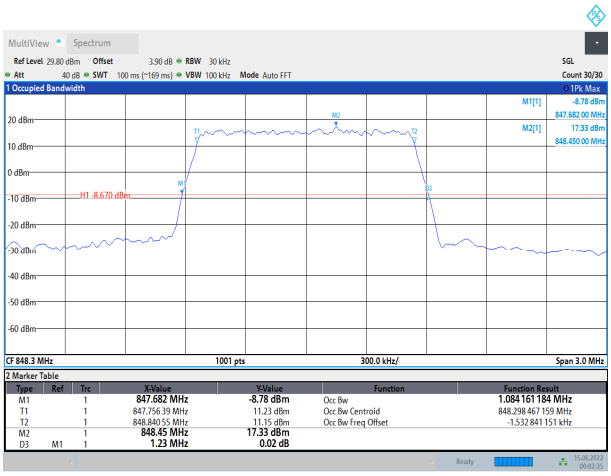
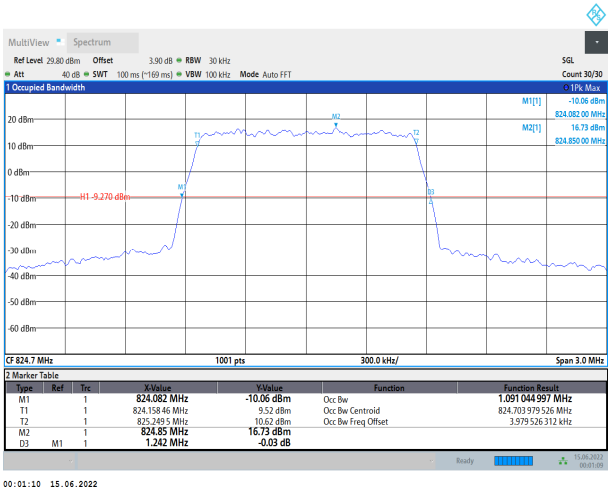
Band5-1.4MHz-QPSK-20643-6RB#0



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



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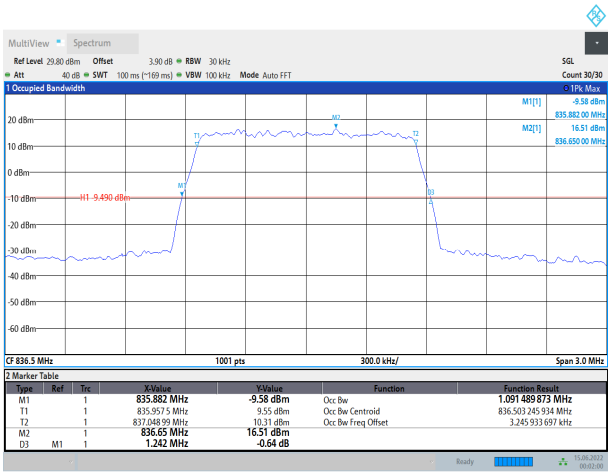
Band5-1.4MHz-16QAM-20525-6RB#0



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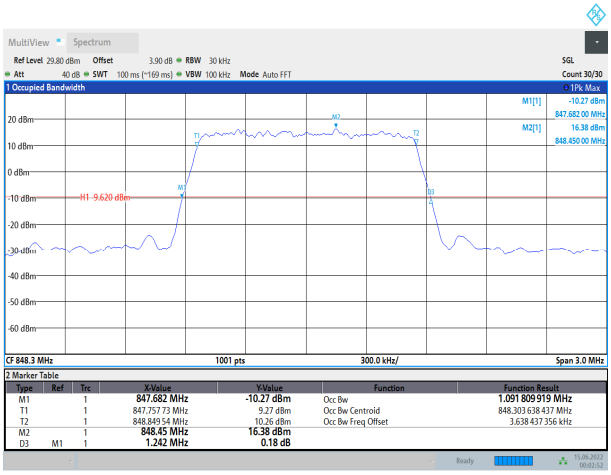

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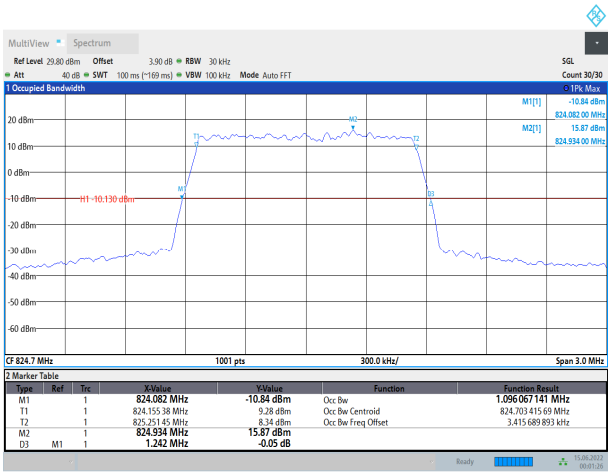
Band5-1.4MHz-64QAM-20407-6RB#0



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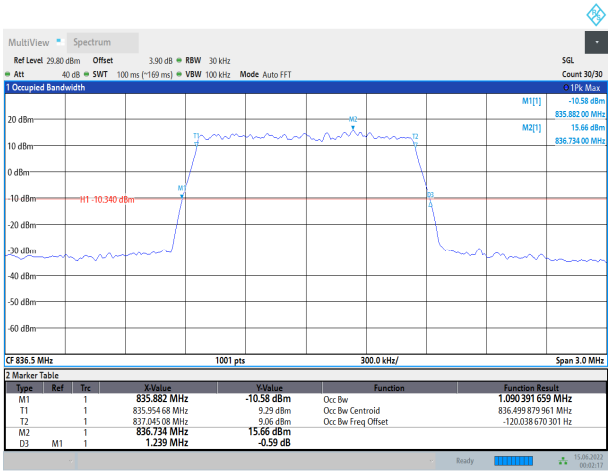
Band5-1.4MHz-64QAM-20525-6RB#0



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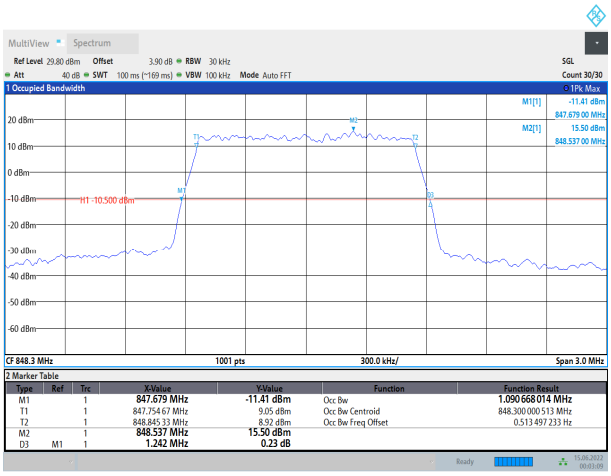
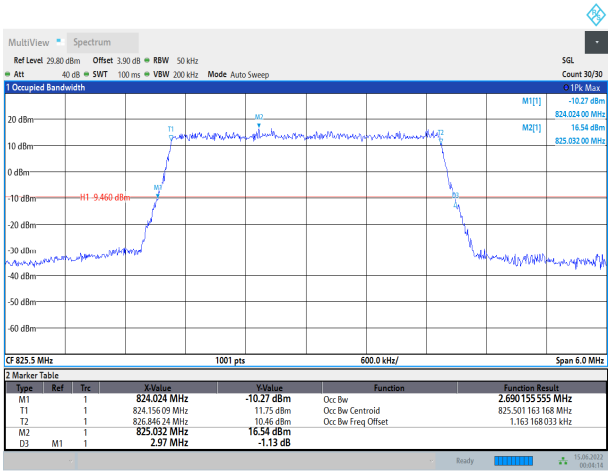
Band5-1.4MHz-64QAM-20643-6RB#0



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



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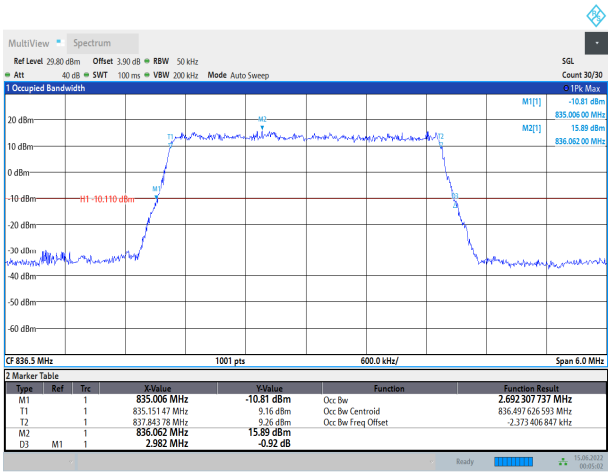
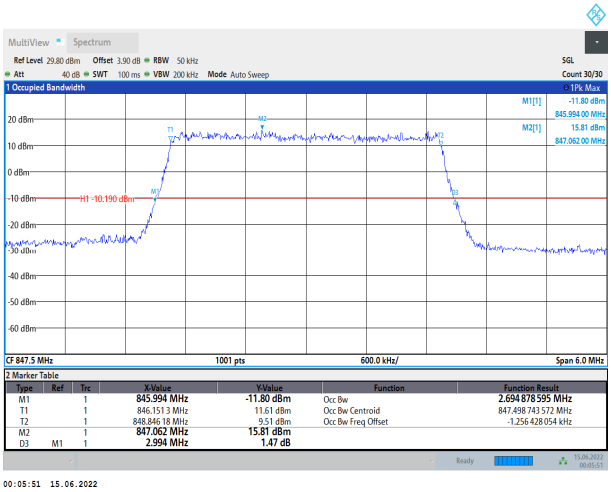


Band5-3MHz-QPSK-20635-15RB#0



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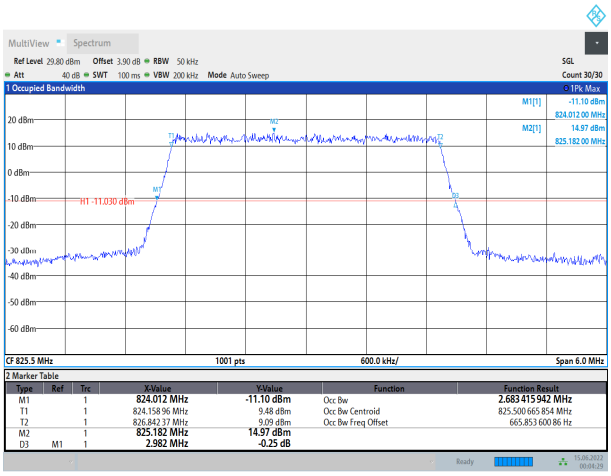
Band5-3MHz-16QAM-20415-15RB#0



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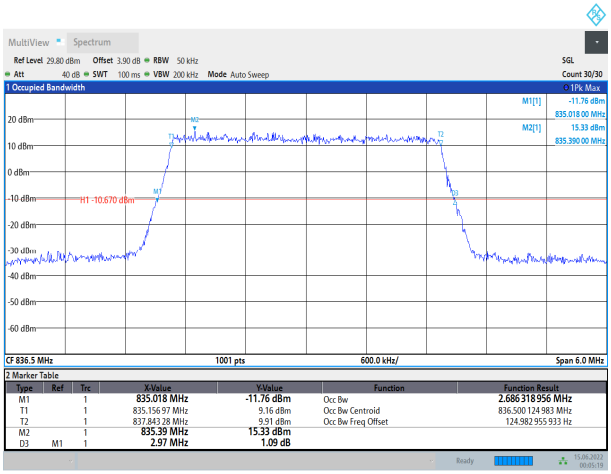

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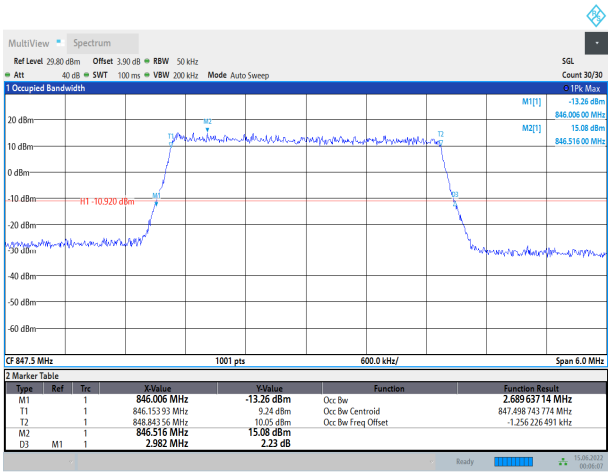
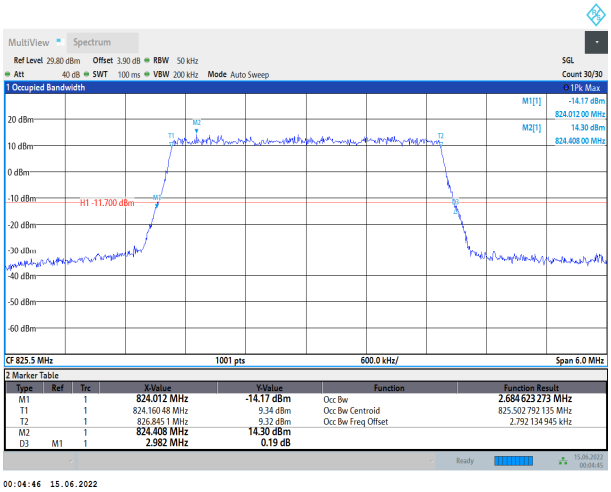
Band5-3MHz-16QAM-20635-15RB#0



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



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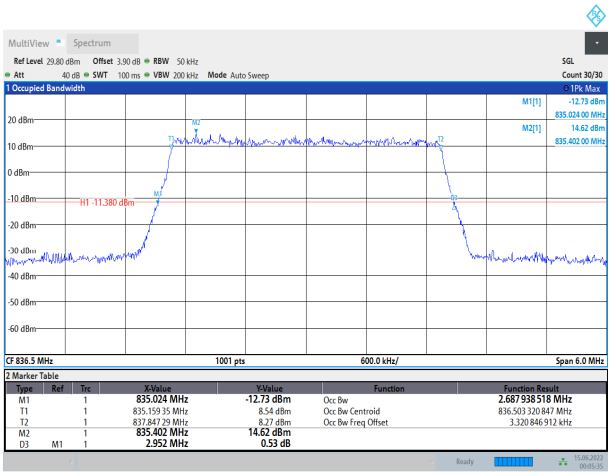

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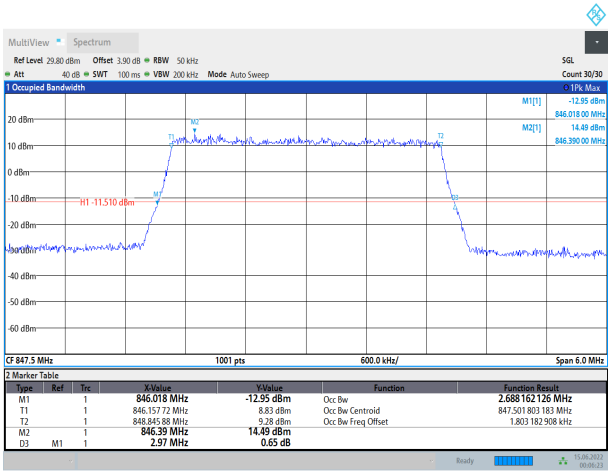
Band5-3MHz-64QAM-20635-15RB#0



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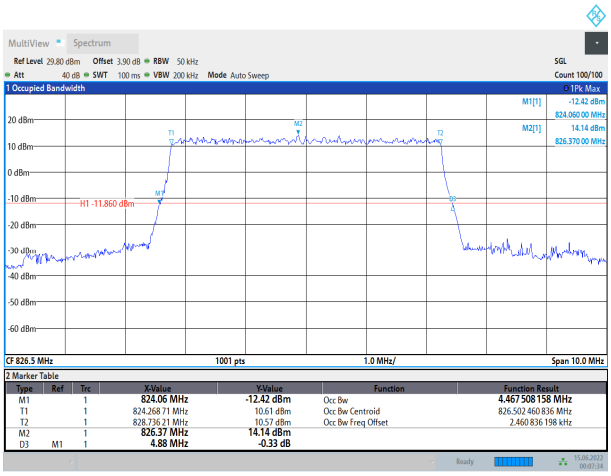
Band5-5MHz-QPSK-20425-25RB#0



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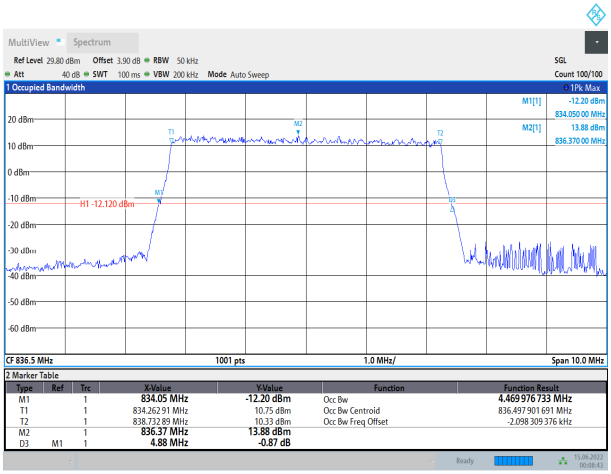
Band5-5MHz-QPSK-20525-25RB#0



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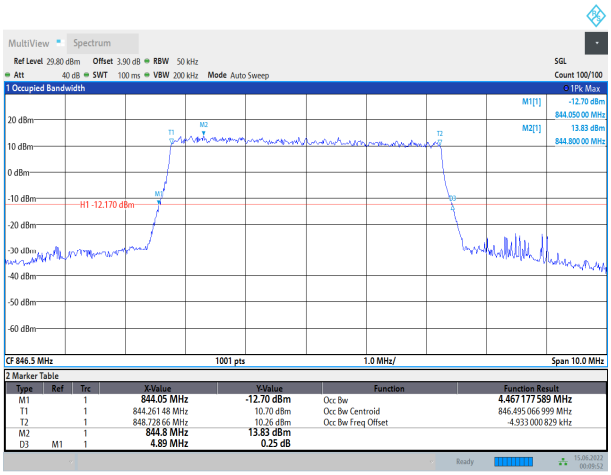
Band5-5MHz-QPSK-20625-25RB#0



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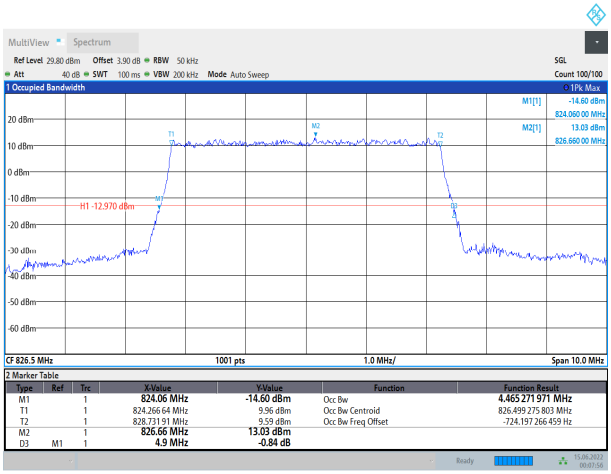

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Band5-5MHz-16QAM-20525-25RB#0

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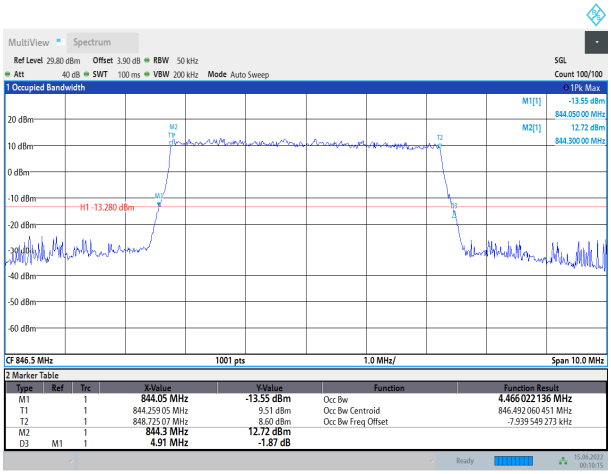
Band5-5MHz-16QAM-20625-25RB#0



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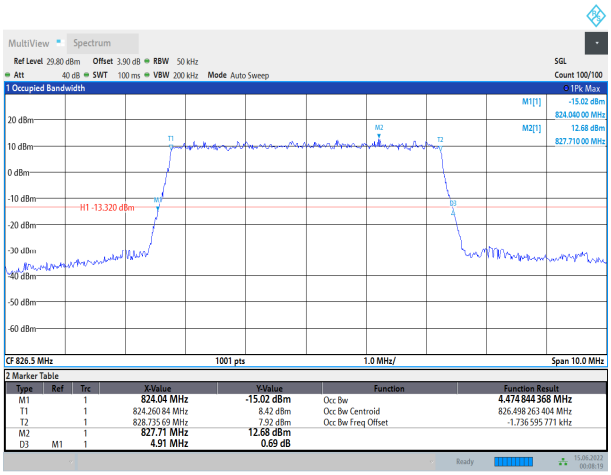

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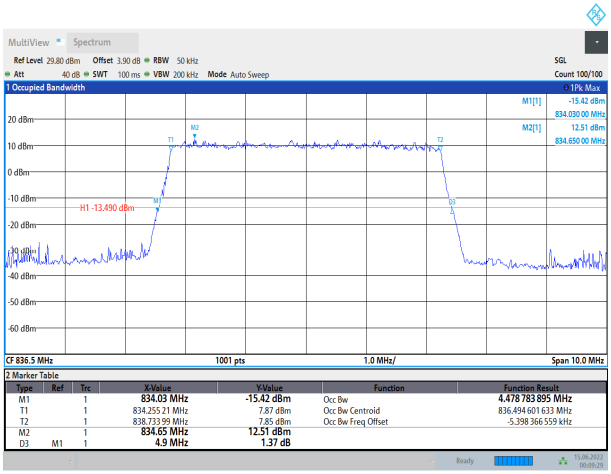

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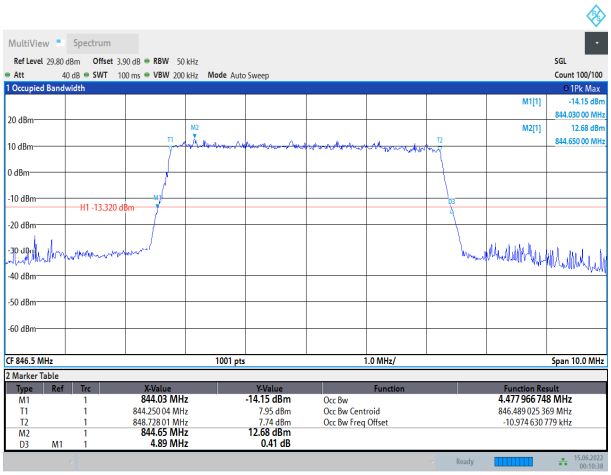
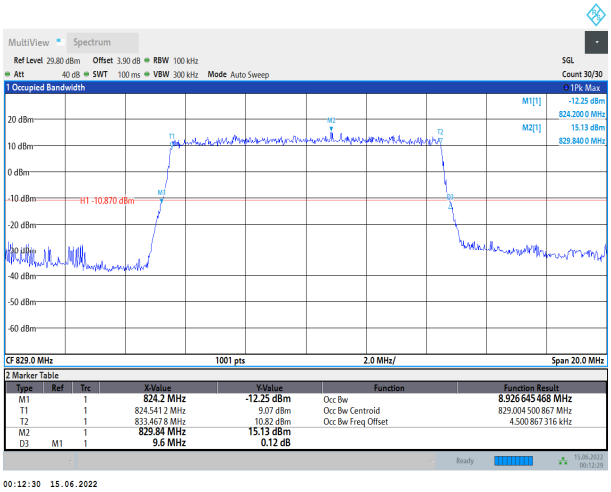


Band5-10MHz-QPSK-20450-50RB#0



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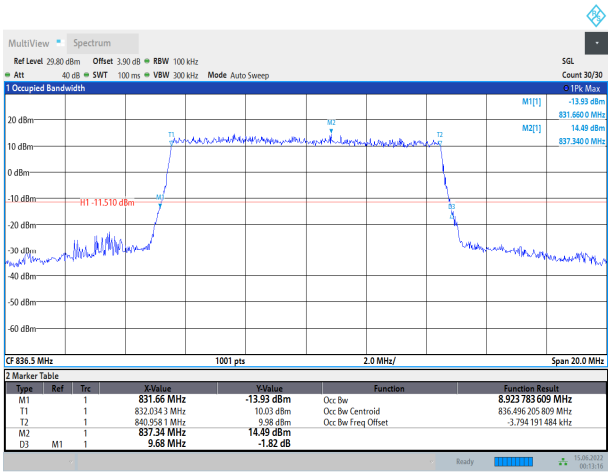
Band5-10MHz-QPSK-20525-50RB#0



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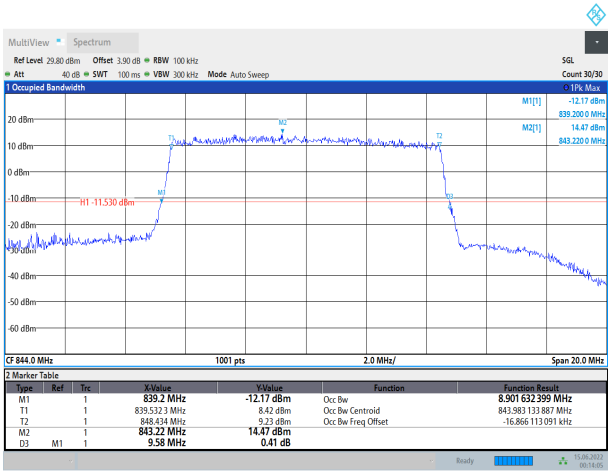

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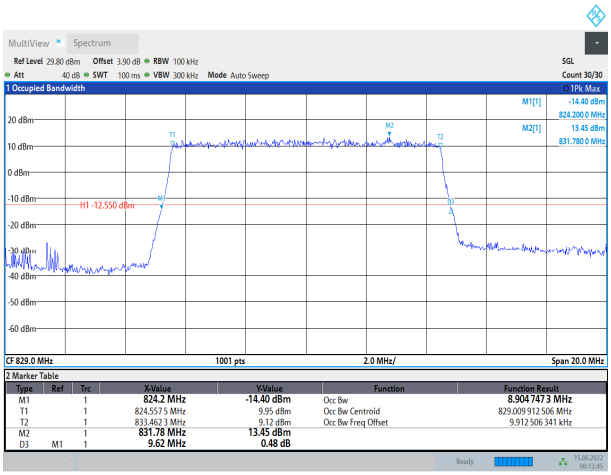

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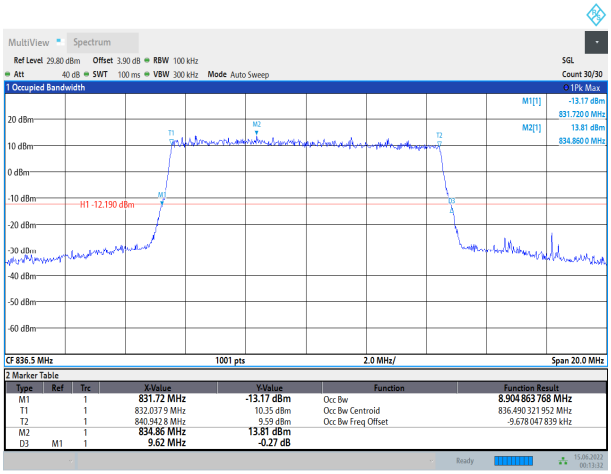
Band5-10MHz-16QAM-20525-50RB#0



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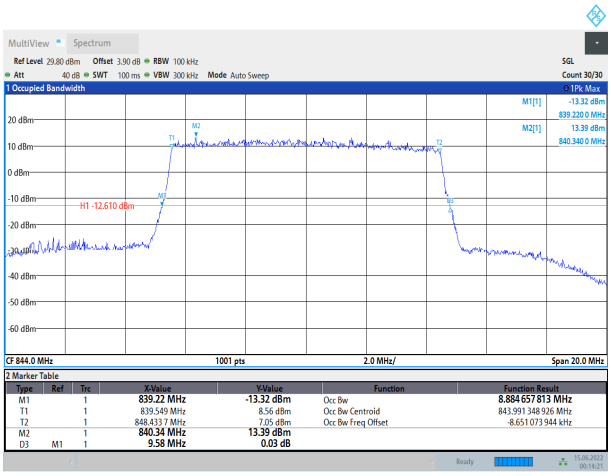

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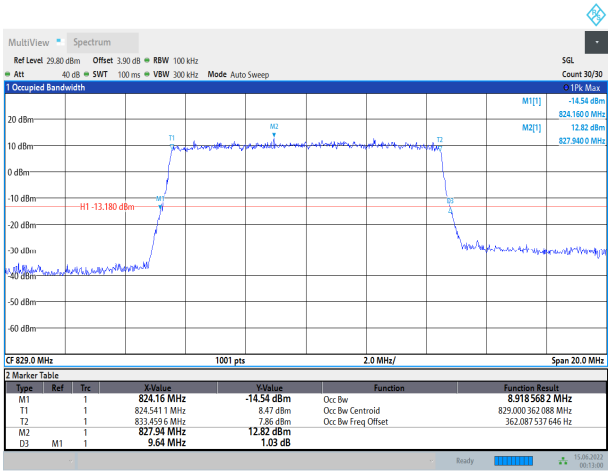

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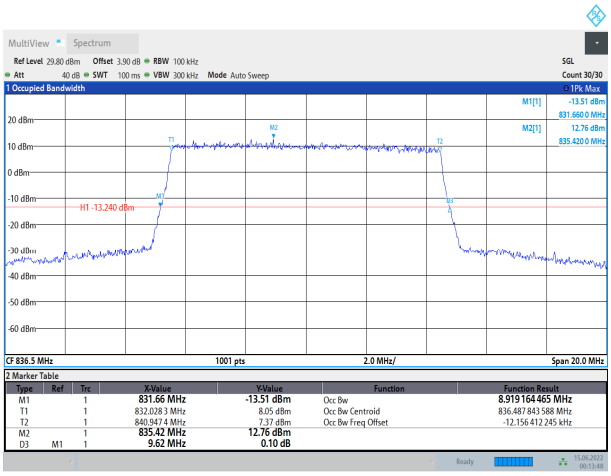

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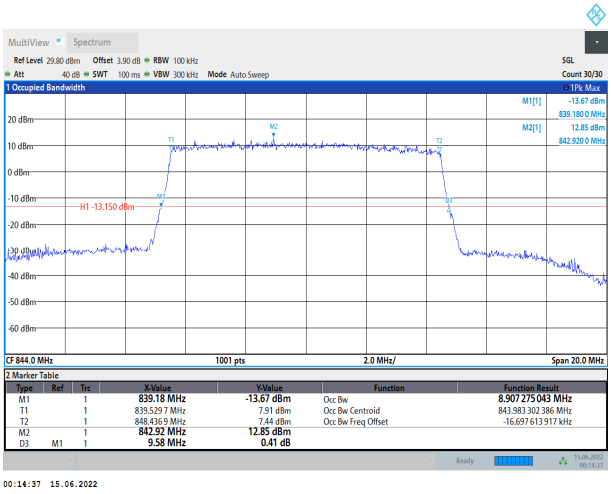

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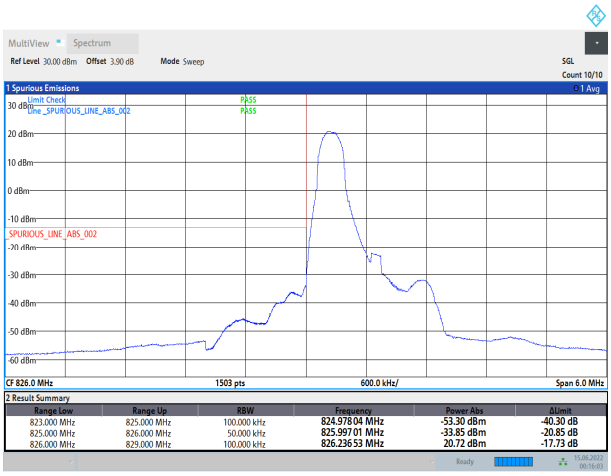
Band Edge

Test Graphs

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



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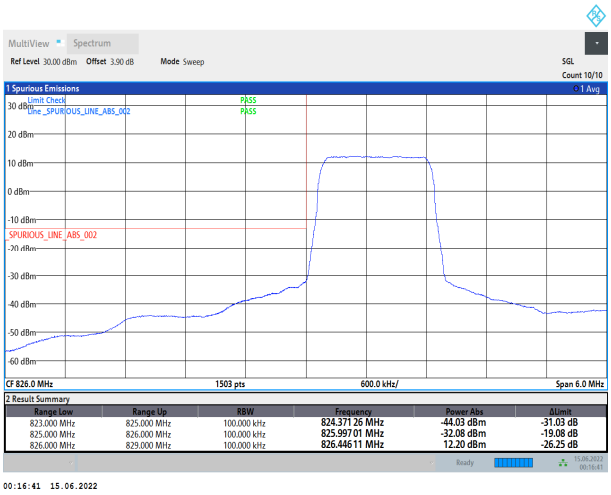

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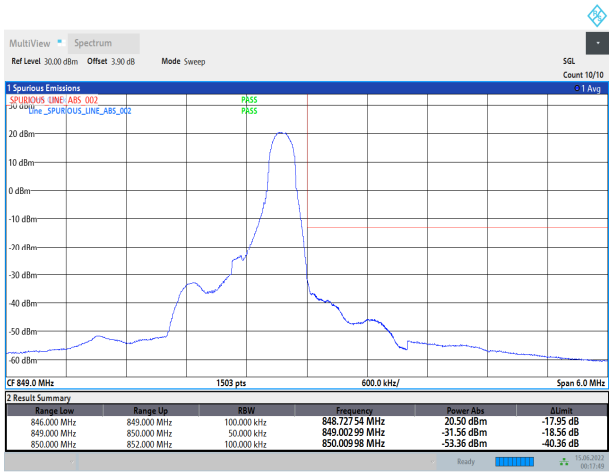
Band5-1.4MHz-QPSK-20643-1RB#5



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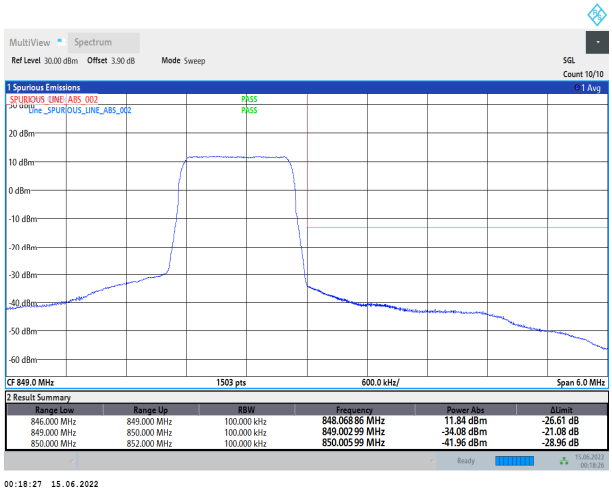

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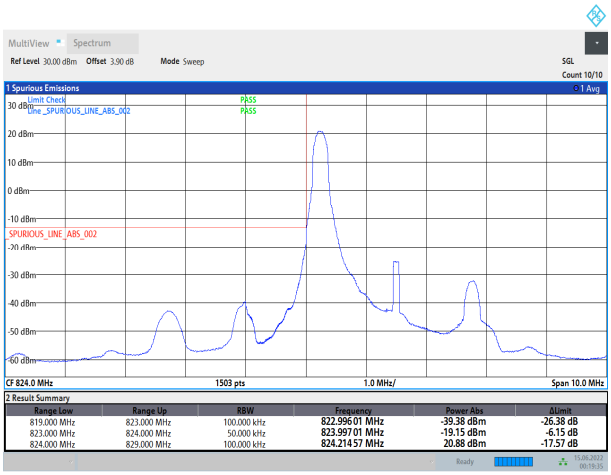
Band5-3MHz-QPSK-20415-1RB#0



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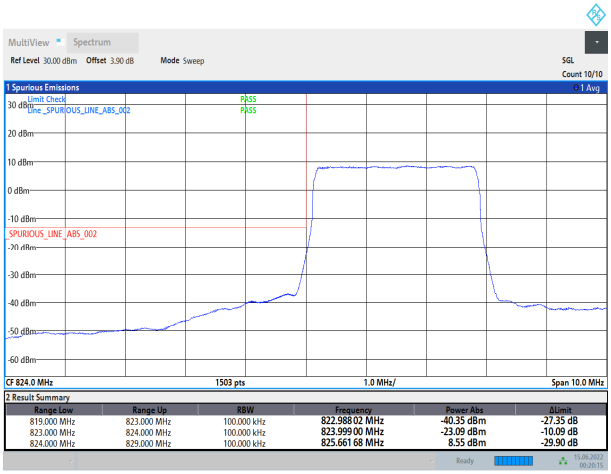
Band5-3MHz-QPSK-20415-15RB#0



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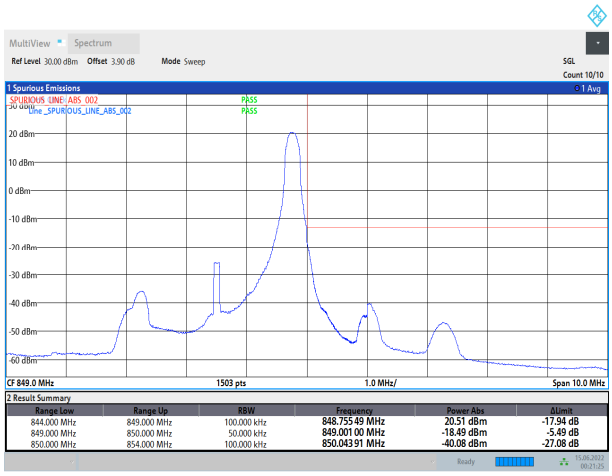
Band5-3MHz-QPSK-20635-1RB#14



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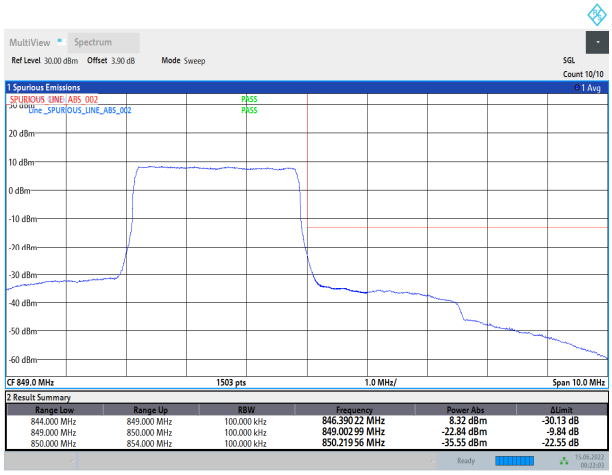
Band5-3MHz-QPSK-20635-15RB#0



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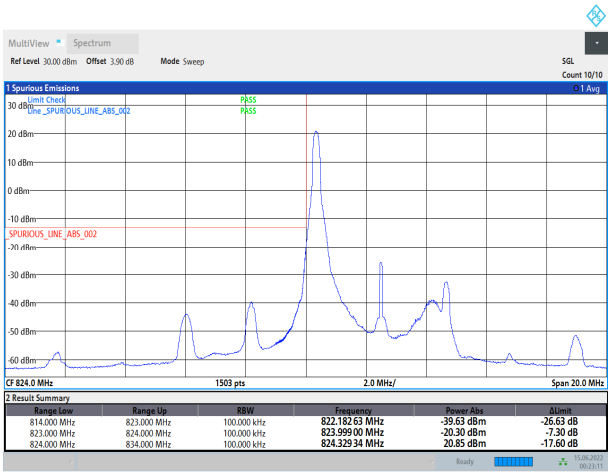
Band5-5MHz-QPSK-20425-1RB#0



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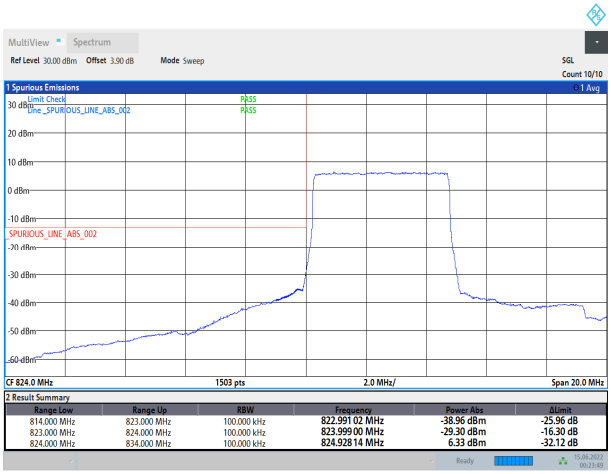
Band5-5MHz-QPSK-20425-25RB#0



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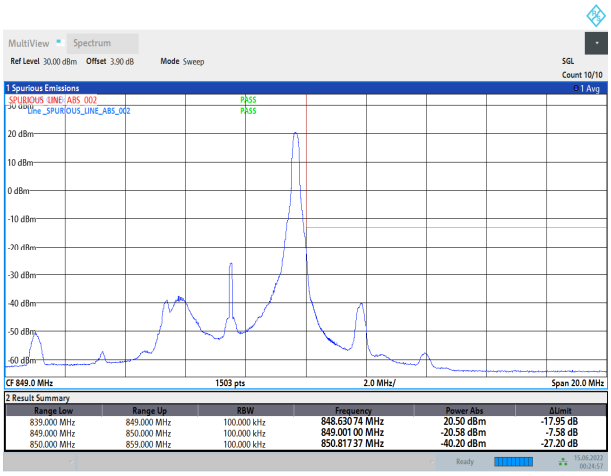
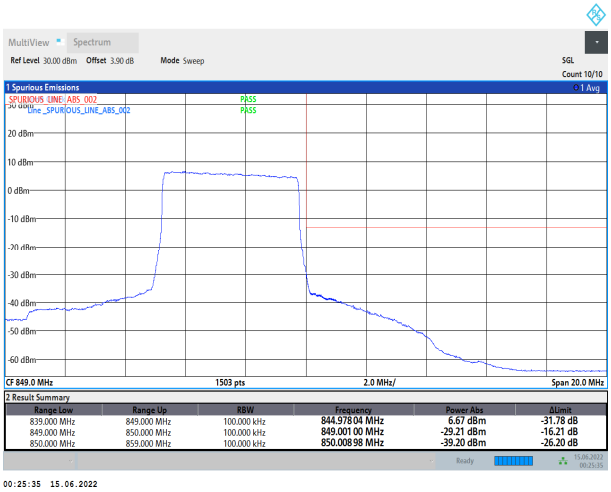
Band5-5MHz-QPSK-20625-1RB#24



Band5-5MHz-QPSK-20625-25RB#0



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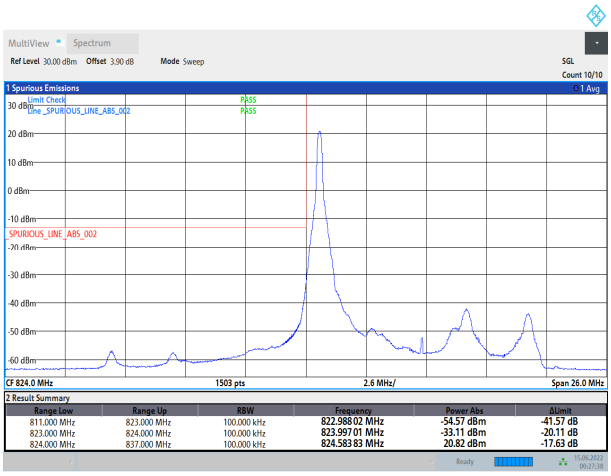
Band5-10MHz-QPSK-20450-1RB#0



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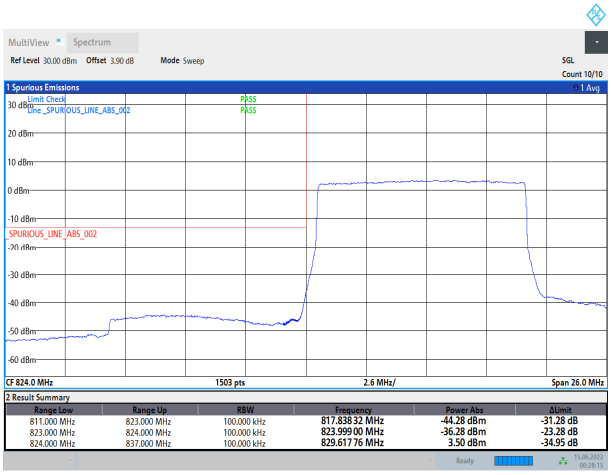
Band5-10MHz-QPSK-20450-50RB#0



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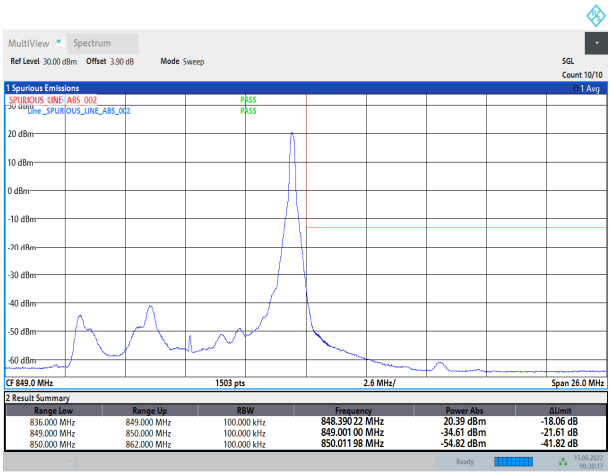
Band5-10MHz-QPSK-20600-1RB#49



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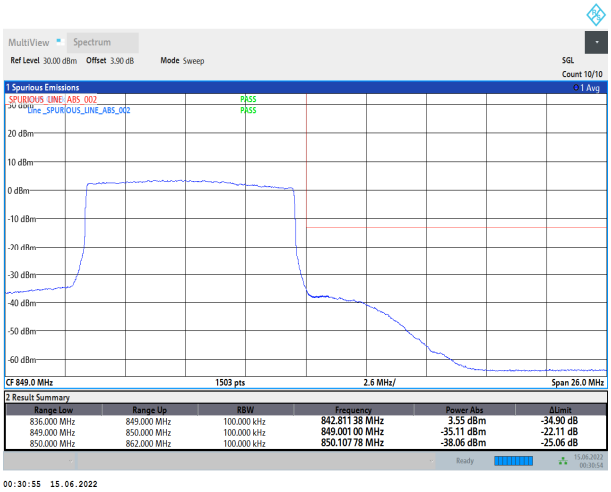

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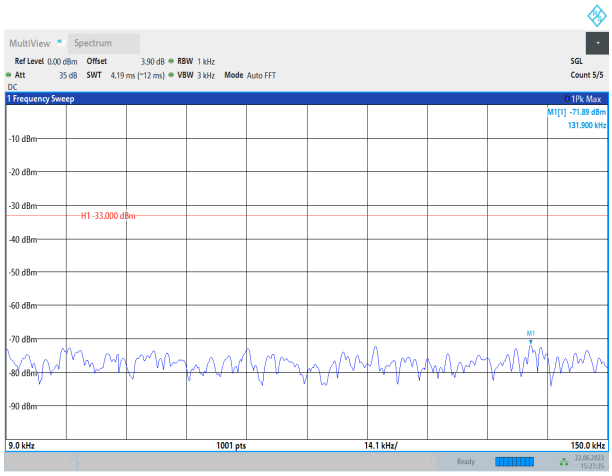
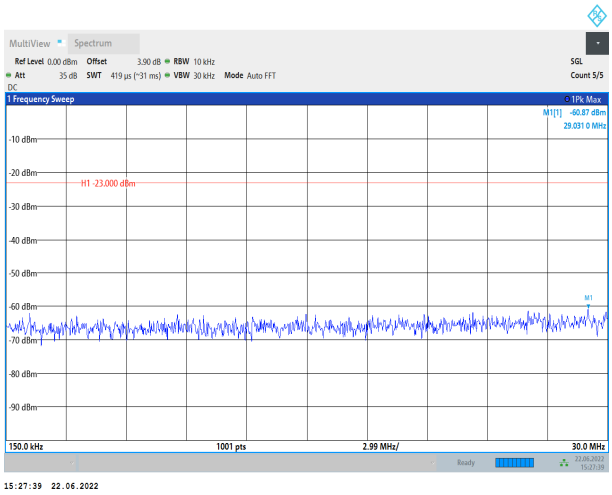
Conducted Spurious Emission

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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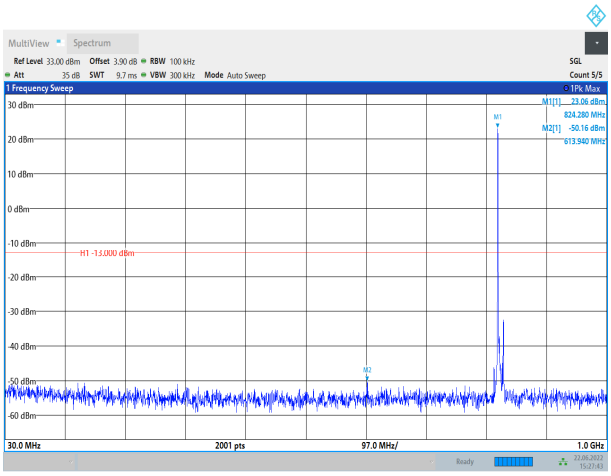
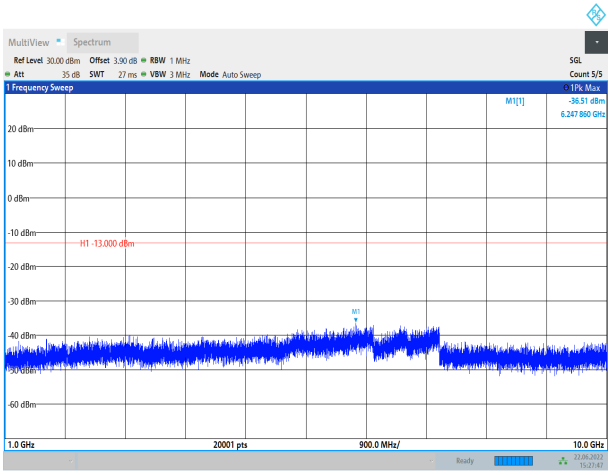


Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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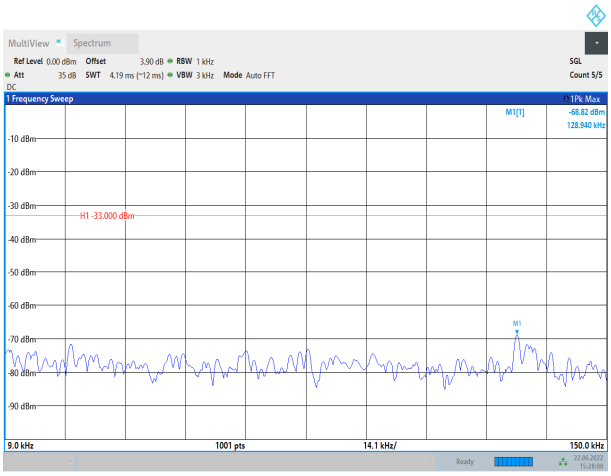
Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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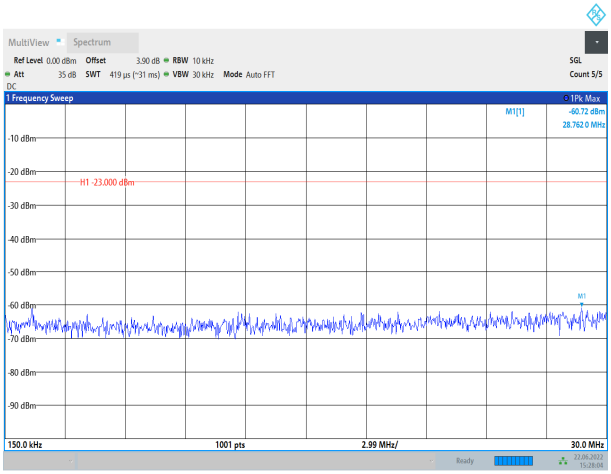
Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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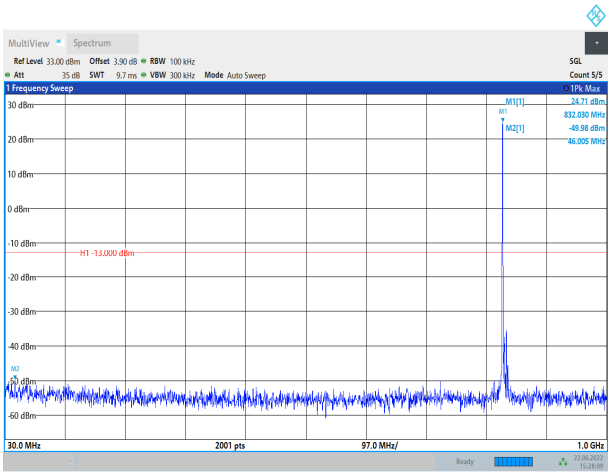
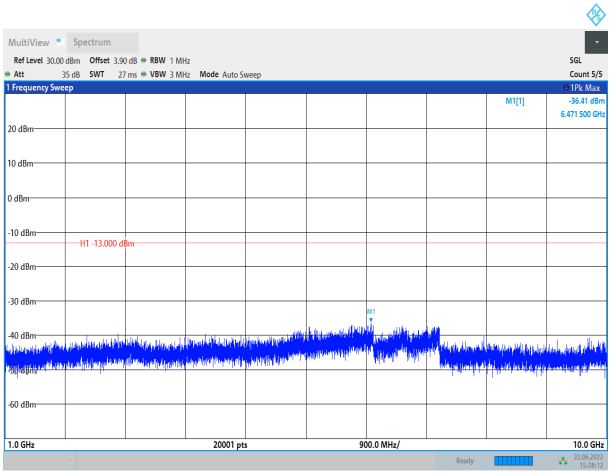
Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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



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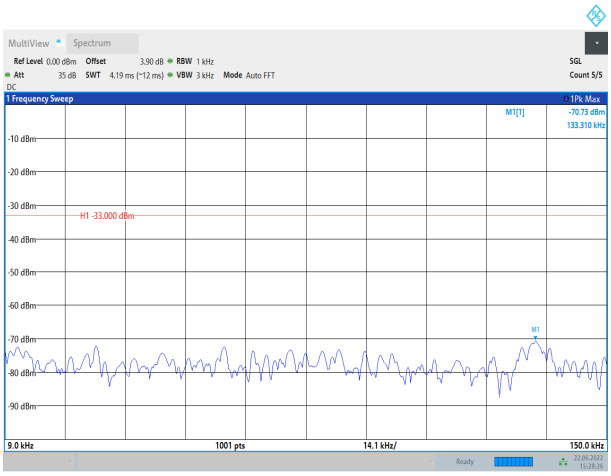
Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



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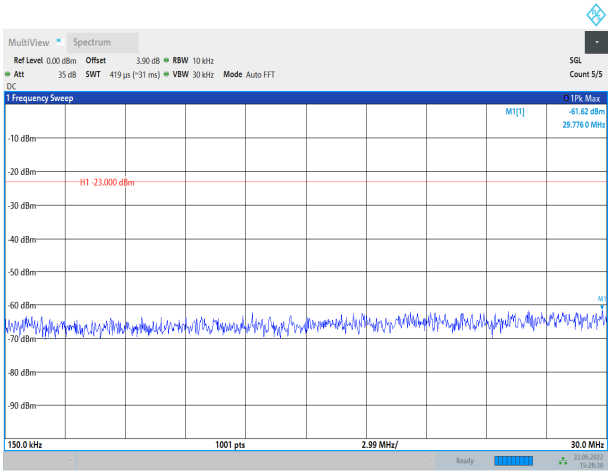
Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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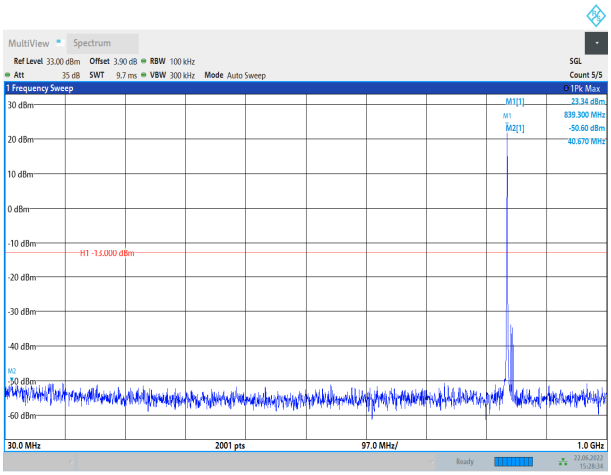
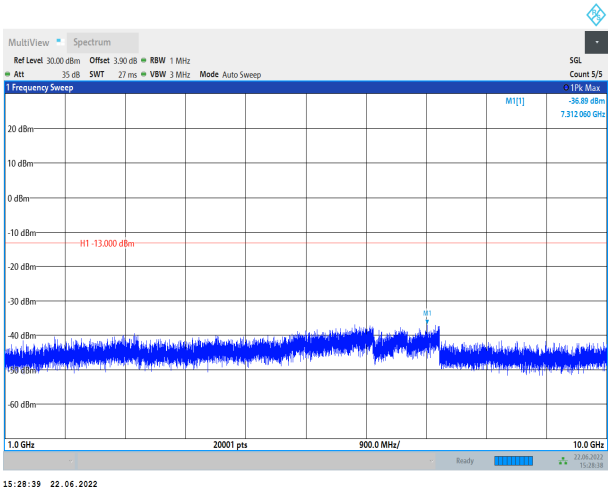


Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	50.72	-118.11	-67.39	-13.00	54.39	261	0	Horizontal
2	2473.7700	50.57	-114.89	-64.32	-13.00	51.32	294	0	Horizontal
3	3298.3600	51.41	-112.38	-60.97	-13.00	47.97	137	357	Horizontal
4	4122.9500	48.43	-110.19	-61.76	-13.00	48.76	234	242	Horizontal
5	4947.5400	49.49	-108.22	-58.73	-13.00	45.73	167	0	Horizontal
6	5772.1300	48.02	-106.25	-58.23	-13.00	45.23	127	307	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	51.95	-118.11	-66.16	-13.00	53.16	134	53	Vertical
2	2473.7700	50.80	-114.89	-64.09	-13.00	51.09	192	12	Vertical
3	3298.3600	51.07	-112.38	-61.31	-13.00	48.31	264	105	Vertical
4	4122.9500	48.93	-110.19	-61.26	-13.00	48.26	182	331	Vertical
5	4947.5400	49.02	-108.22	-59.20	-13.00	46.20	194	53	Vertical
6	5772.1300	48.96	-106.25	-57.29	-13.00	44.29	267	356	Vertical

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Wireless Laboratory

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Test Band = LTE Band 5_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	51.02	-118.09	-67.07	-13.00	54.07	261	95	Horizontal
2	2496.2700	51.28	-114.78	-63.50	-13.00	50.50	249	280	Horizontal
3	3328.3600	50.40	-112.38	-61.98	-13.00	48.98	234	3	Horizontal
4	4160.4500	49.14	-110.16	-61.02	-13.00	48.02	164	280	Horizontal
5	4992.5400	48.20	-108.19	-59.99	-13.00	46.99	192	0	Horizontal
6	5824.6300	48.38	-106.20	-57.82	-13.00	44.82	182	68	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	51.30	-118.09	-66.79	-13.00	53.79	162	12	Vertical
2	2496.2700	51.57	-114.78	-63.21	-13.00	50.21	192	184	Vertical
3	3328.3600	50.41	-112.38	-61.97	-13.00	48.97	137	3	Vertical
4	4160.4500	49.21	-110.16	-60.95	-13.00	47.95	261	25	Vertical
5	4992.5400	48.19	-108.19	-60.00	-13.00	47.00	281	3	Vertical
6	5824.6300	48.17	-106.20	-58.03	-13.00	45.03	167	359	Vertical

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Test Band = LTE Band 5_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	52.28	-118.06	-65.78	-13.00	52.78	182	189	Horizontal
2	2518.7700	50.72	-114.63	-63.91	-13.00	50.91	192	356	Horizontal
3	3358.3600	51.85	-112.38	-60.53	-13.00	47.53	264	189	Horizontal
4	4197.9500	48.40	-110.12	-61.72	-13.00	48.72	291	176	Horizontal
5	5037.5400	47.93	-108.01	-60.08	-13.00	47.08	237	228	Horizontal
6	5887.1300	48.79	-106.27	-57.48	-13.00	44.48	172	332	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	52.51	-118.06	-65.55	-13.00	52.55	182	279	Vertical
2	2518.7700	52.03	-114.63	-62.60	-13.00	49.60	293	360	Vertical
3	3358.3600	51.27	-112.38	-61.11	-13.00	48.11	272	356	Vertical
4	4197.9500	48.94	-110.12	-61.18	-13.00	48.18	192	147	Vertical
5	5037.5400	48.38	-108.01	-59.63	-13.00	46.63	172	360	Vertical
6	5887.1300	49.17	-106.27	-57.10	-13.00	44.10	237	344	Vertical

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	3.20	0.003825	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	1.20	0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-5.30	-0.006336	±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	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.20	0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.60	-0.003108	±2.5	PASS

---End of Attachment---

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