

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	22.73	22.71	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.21	23.19	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.06	23.04	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.94	21.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.82	22.8	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.89	22.87	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.84	22.82	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.83	21.81	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23	22.98	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.88	22.86	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.78	22.76	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.02	22	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.6	21.58	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.59	22.57	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.15	22.13	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.88	20.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.67	21.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.48	22.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.19	22.17	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.87	20.85	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.5	21.48	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.69	21.67	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.59	21.57	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.86	20.84	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.92	20.9	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.32	21.3	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.71	20.69	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.9	19.88	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.49	21.47	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.04	21.02	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	20.77	20.75	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.97	19.95	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	20.82	20.8	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.35	21.33	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.18	21.16	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.94	19.92	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.08	23.06	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.77	22.75	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.82	22.8	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.94	21.92	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.98	22.96	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.8	22.78	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.78	22.76	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.02	22	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23	22.98	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.01	22.99	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.73	22.71	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.04	22.02	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.35	21.33	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.68	21.66	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.61	21.59	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.04	21.02	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.96	21.94	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.05	22.03	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.55	21.53	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.12	21.1	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.37	21.35	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.49	21.47	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.41	21.39	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	21.04	21.02	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	20.64	20.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.64	20.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.66	20.64	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.2	20.18	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.1	21.08	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	20.82	20.8	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	20.83	20.81	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.95	19.93	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.23	21.21	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	20.61	20.59	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.03	21.01	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.11	20.09	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.79	22.77	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.02	23	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.82	22.8	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.92	21.9	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.91	22.89	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.89	22.87	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.85	22.83	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.99	21.97	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.87	22.85	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.97	22.95	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.91	22.89	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.07	22.05	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.36	21.34	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.88	21.86	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.94	21.92	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.1	21.08	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.59	21.57	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.86	21.84	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.69	21.67	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	21.08	21.06	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.6	21.58	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.76	21.74	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.45	21.43	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.96	20.94	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	20.63	20.61	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.1	21.08	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	20.95	20.93	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.79	19.77	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	20.79	20.77	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.01	20.99	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	20.68	20.66	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.12	20.1	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.71	20.69	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.12	21.1	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.73	20.71	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.21	20.19	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.82	22.8	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.99	22.97	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.84	22.82	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.02	22	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.78	22.76	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.14	23.12	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.57	22.55	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.94	21.92	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.76	22.74	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.26	23.24	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.68	22.66	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.15	22.13	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.07	22.05	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.76	21.74	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.47	21.45	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	20.9	20.88	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.83	21.81	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.37	22.35	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.42	21.4	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.01	20.99	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.61	21.59	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.89	21.87	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.67	21.65	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.04	21.02	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	20.82	20.8	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21	20.98	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.16	21.14	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.97	19.95	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	20.71	20.69	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.02	21	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	20.61	20.59	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.98	19.96	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	20.84	20.82	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.35	21.33	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	20.84	20.82	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.1	20.08	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

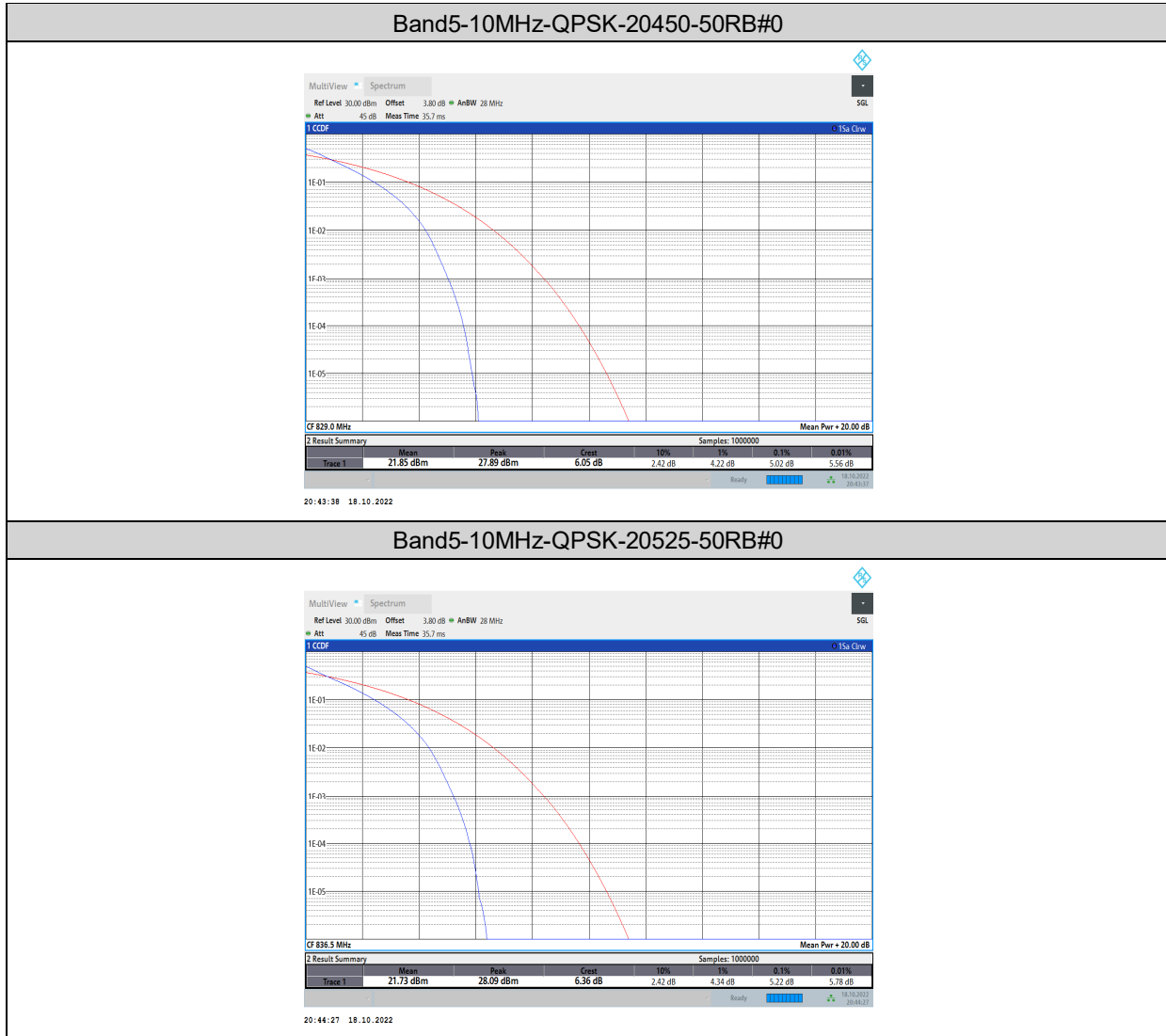
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.02	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.22	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.04	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.78	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.96	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.88	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.30	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.46	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.38	13	PASS



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Test Graphs

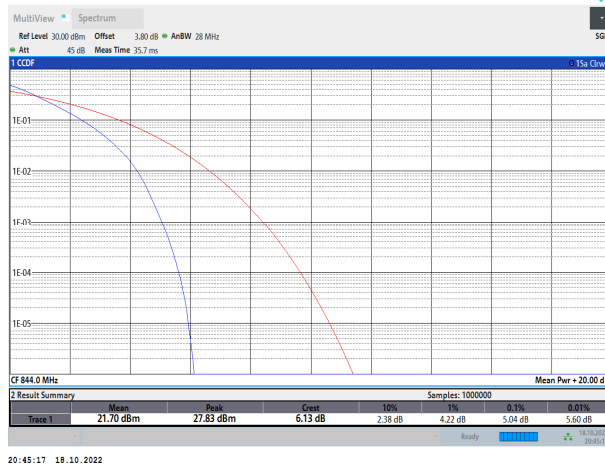


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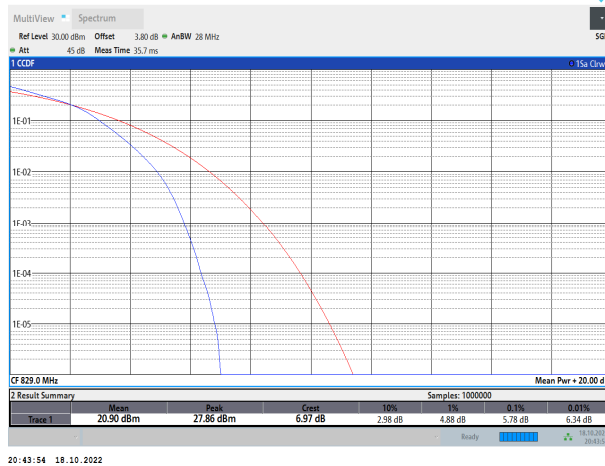
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Band5-10MHz-QPSK-20600-50RB#0



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

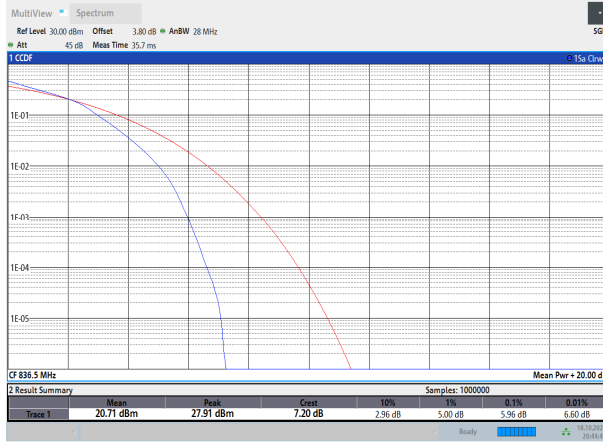


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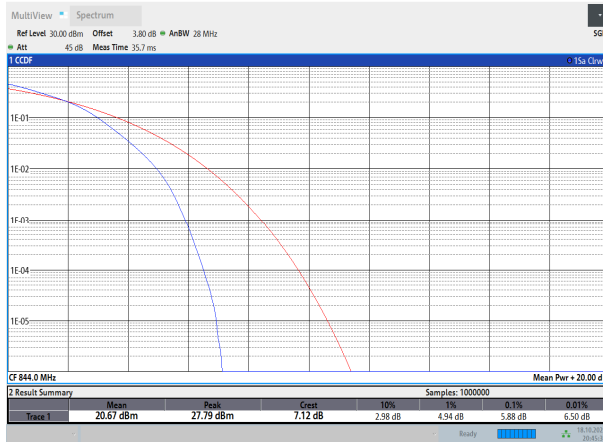
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Band5-10MHz-16QAM-20525-50RB#0



20:44:44 18.10.2022

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



20:45:34 18.10.2022

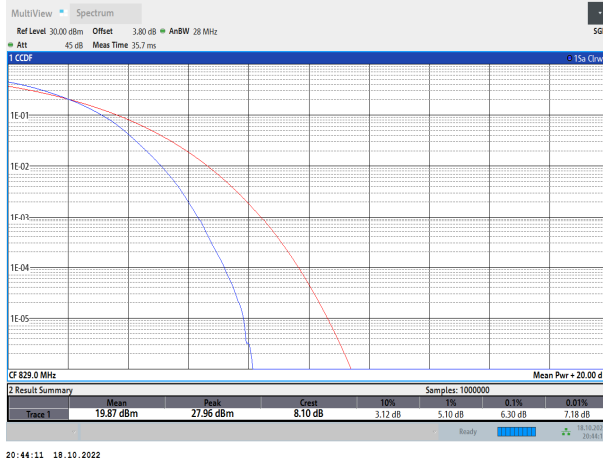


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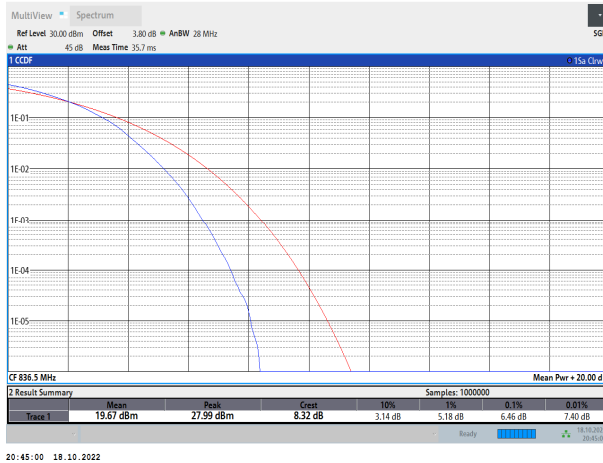
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Band5-10MHz-64QAM-20450-50RB#0



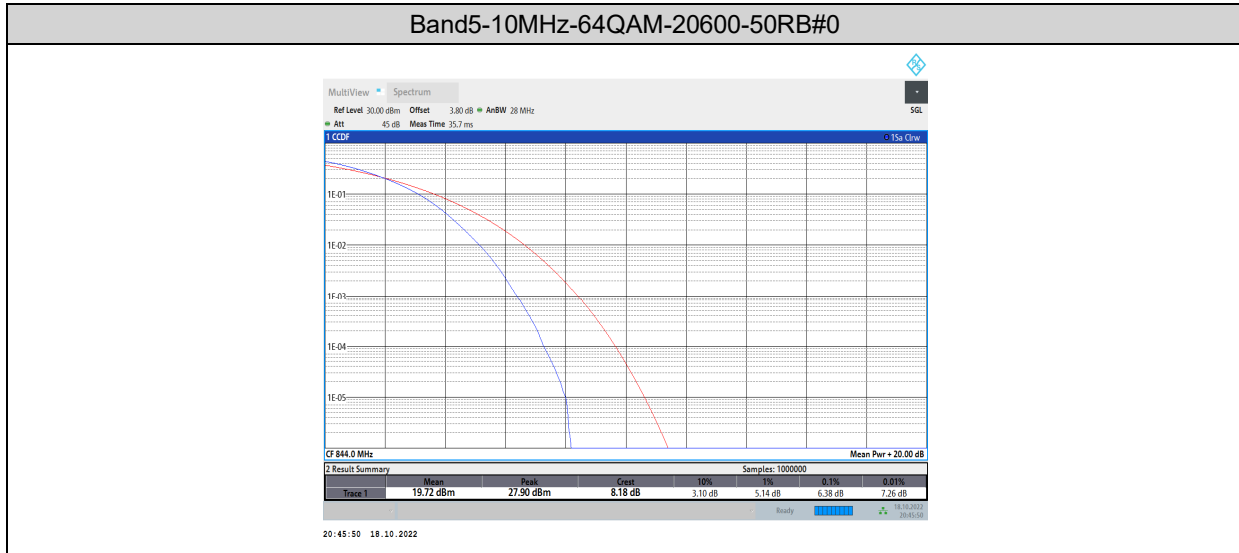
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Modulation Characteristics

Test Result

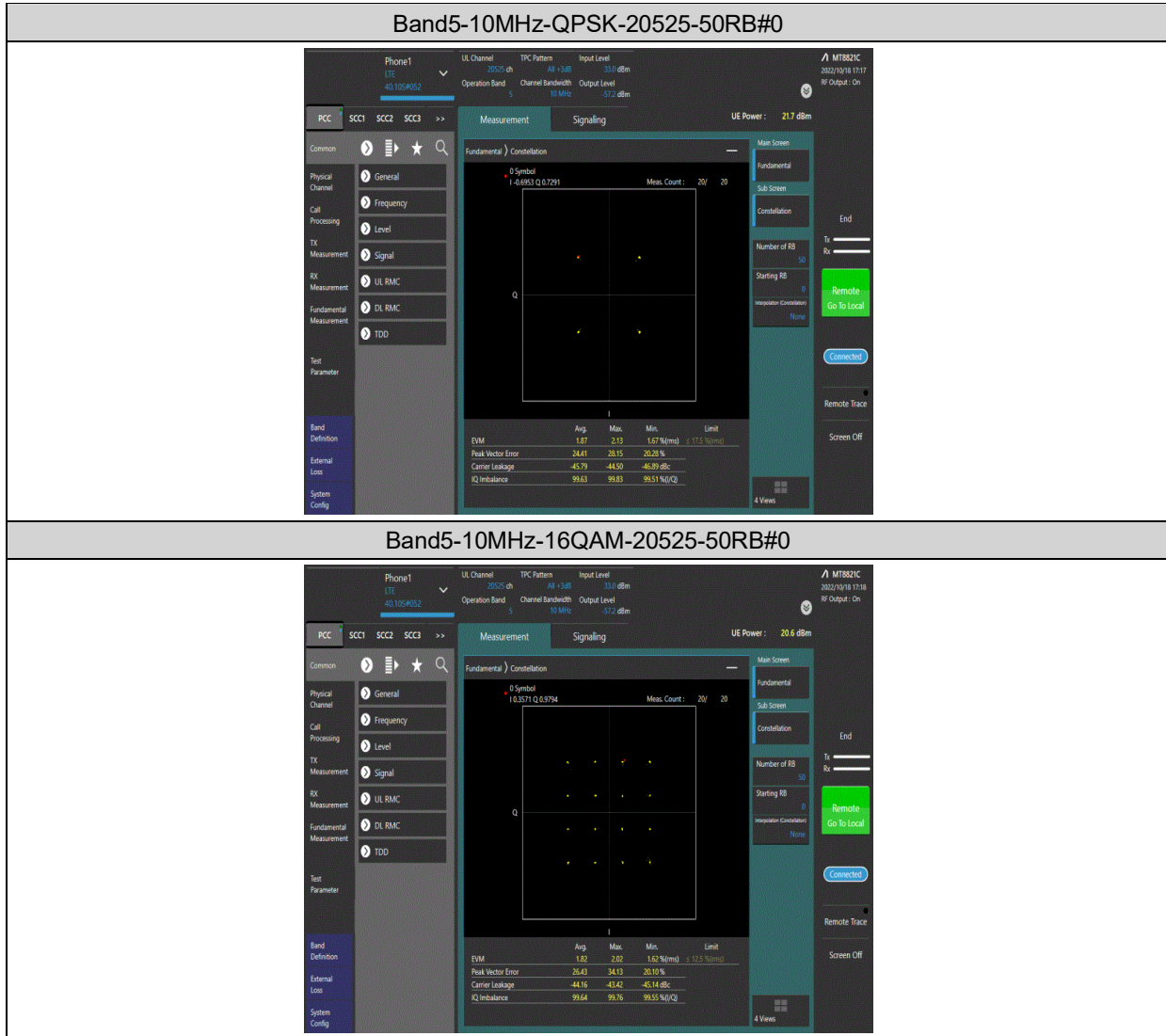
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS



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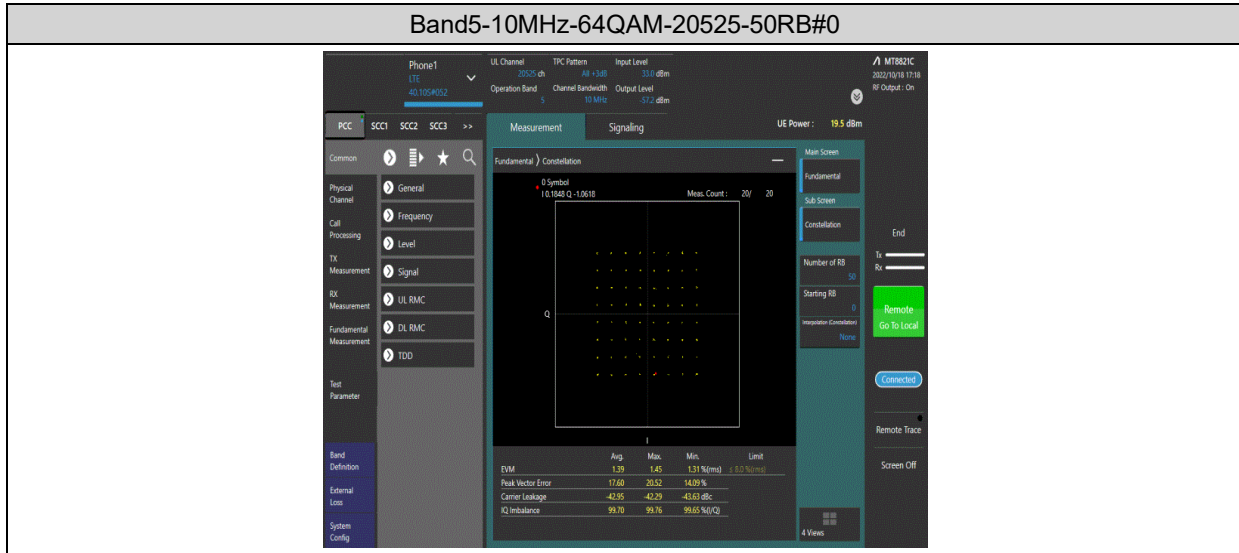
Test Graphs



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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	1.086	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.086	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.086	1.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.097	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.095	1.28	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.096	1.30	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.69	2.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.693	2.96	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.692	2.96	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.687	2.96	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.98	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.689	2.96	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.687	2.95	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.689	2.96	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.687	2.95	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.88	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.468	4.91	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.468	4.89	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.468	4.93	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.47	4.92	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.468	4.95	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.482	4.91	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.48	4.93	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.475	4.93	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.913	9.64	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.74	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9	9.60	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.897	9.66	PASS



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Report No.: SEWA221000060RG01

Rev.: 01

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Band5	10MHz	16QAM	20525	50RB#0	8.915	9.70	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.886	9.62	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.915	9.70	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.926	9.68	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.888	9.60	PASS

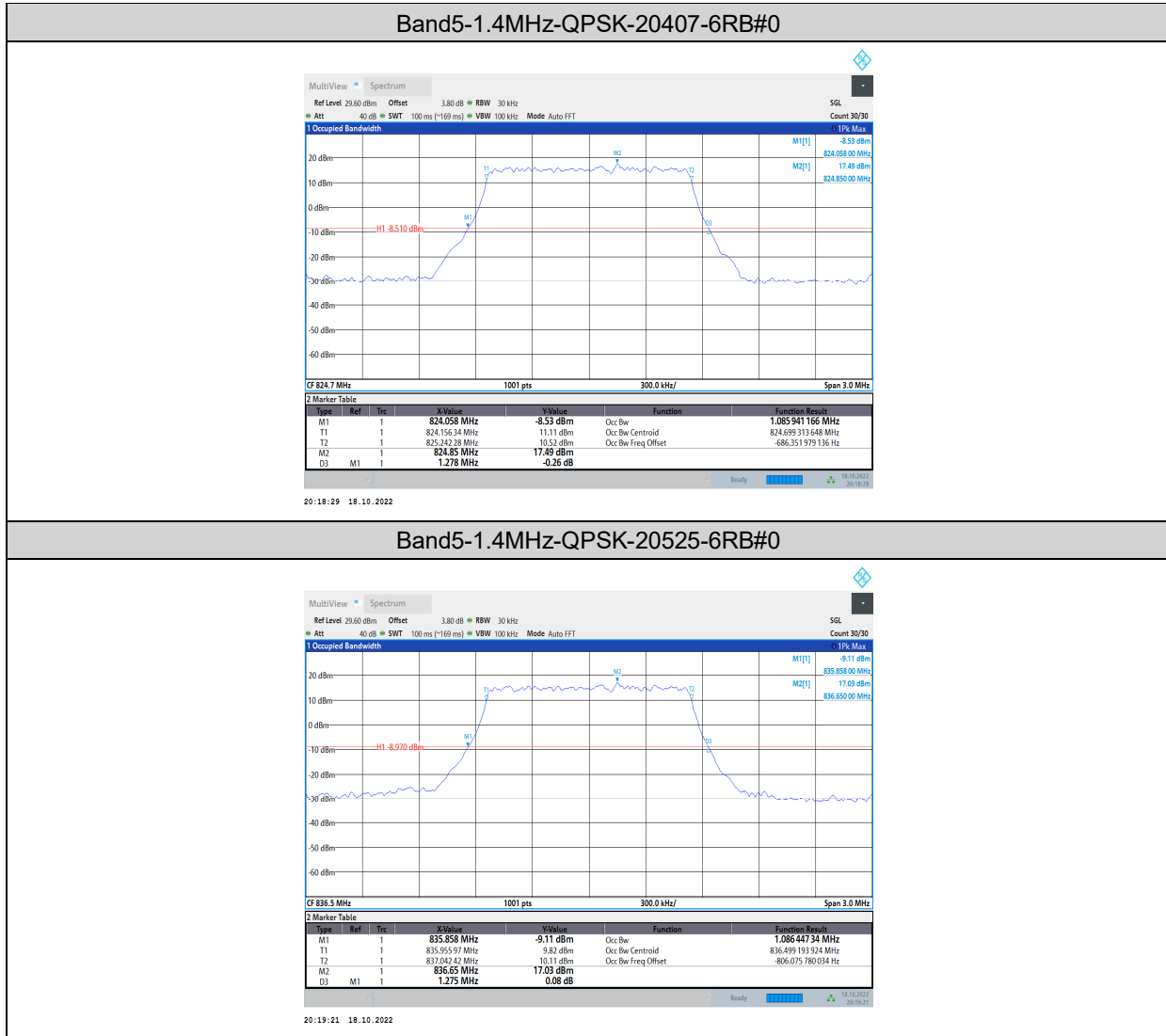


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Test Graphs

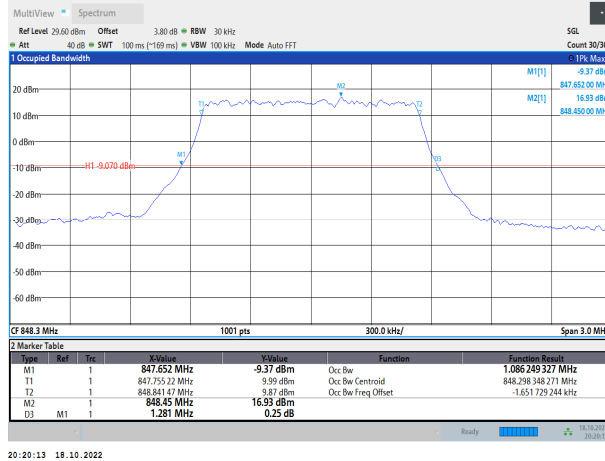


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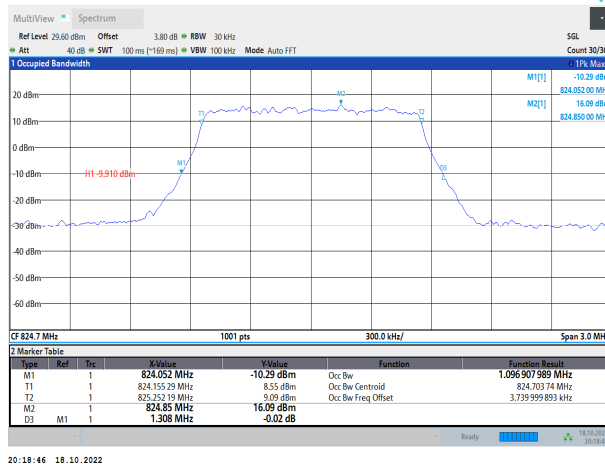
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Band5-1.4MHz-QPSK-20643-6RB#0



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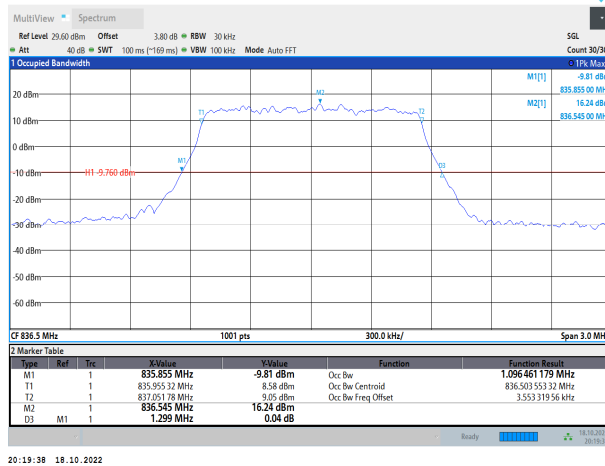


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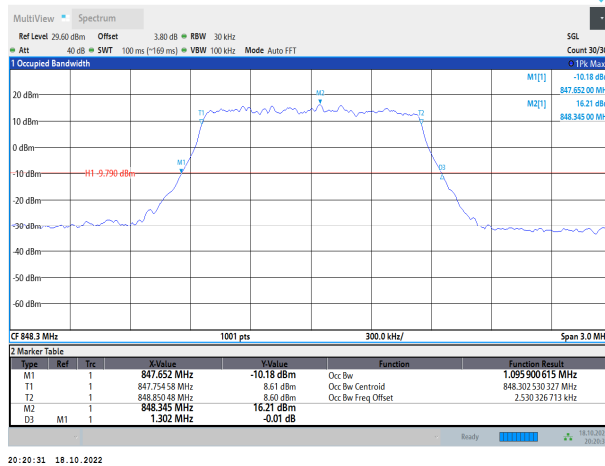
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Band5-1.4MHz-16QAM-20643-6RB#0

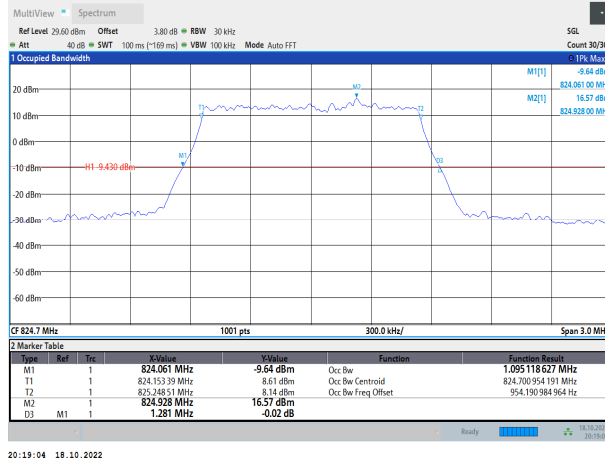


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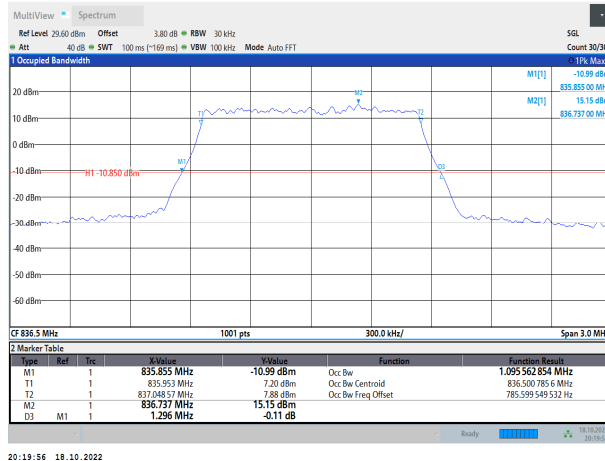
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Band5-1.4MHz-64QAM-20407-6RB#0



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

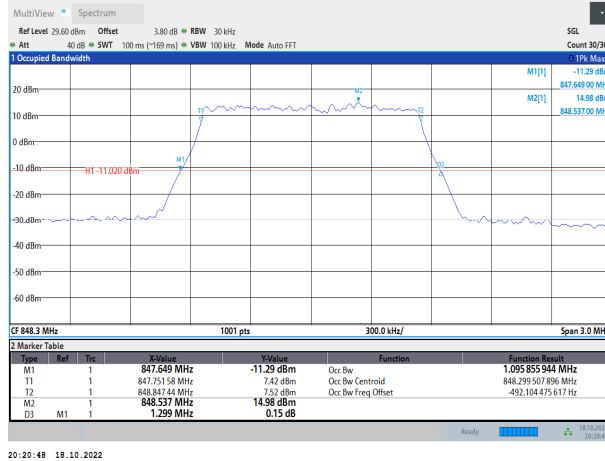


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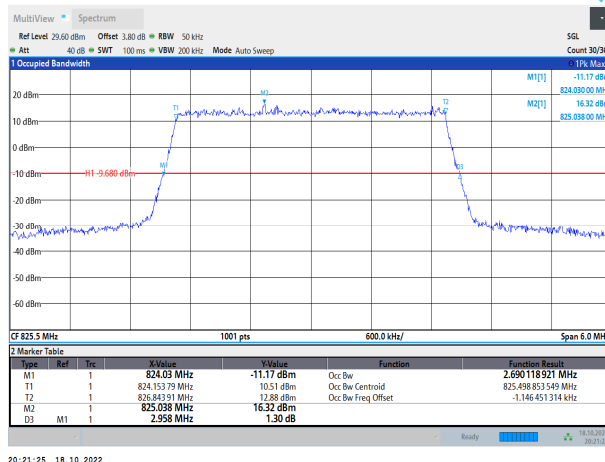
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Band5-1.4MHz-64QAM-20643-6RB#0



20:20:48 18.10.2022

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



20:21:25 18.10.2022

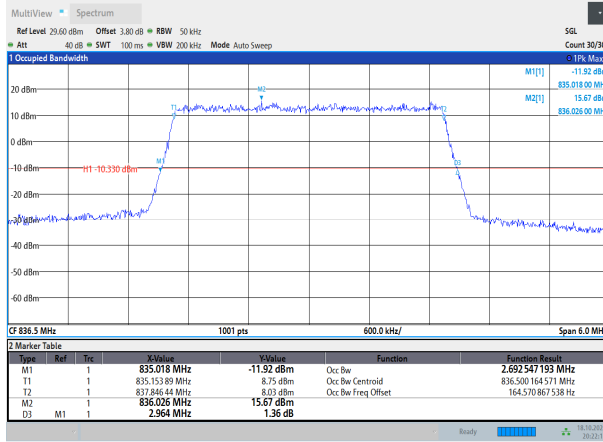


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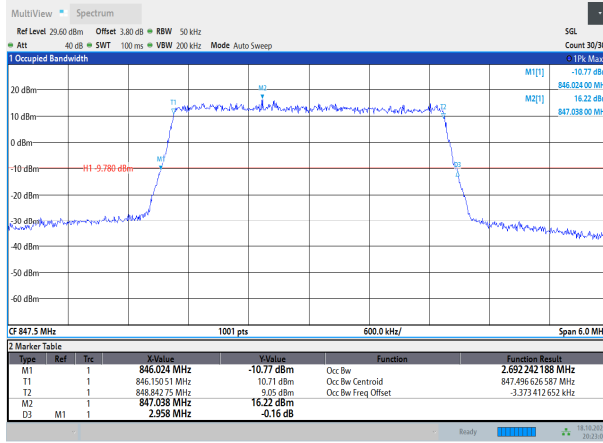
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Band5-3MHz-QPSK-20525-15RB#0



20:22:15 18.10.2022

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



20:23:04 18.10.2022

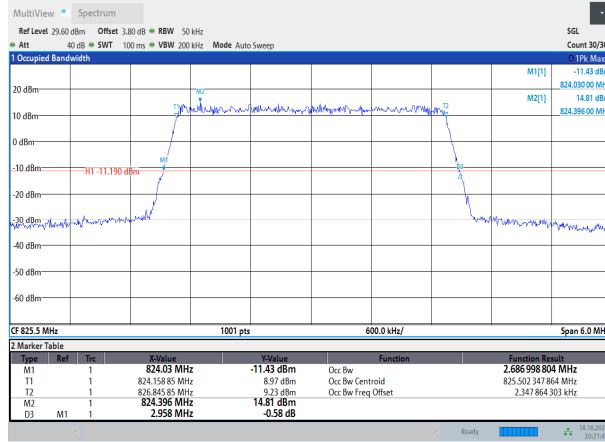


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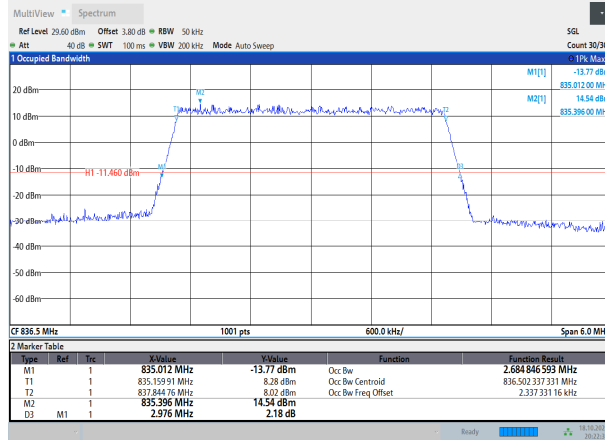
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Band5-3MHz-16QAM-20415-15RB#0



20:21:41 18.10.2022

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



20:22:31 18.10.2022

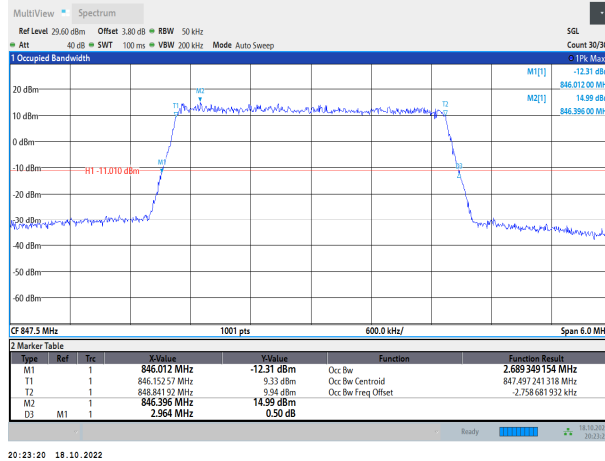


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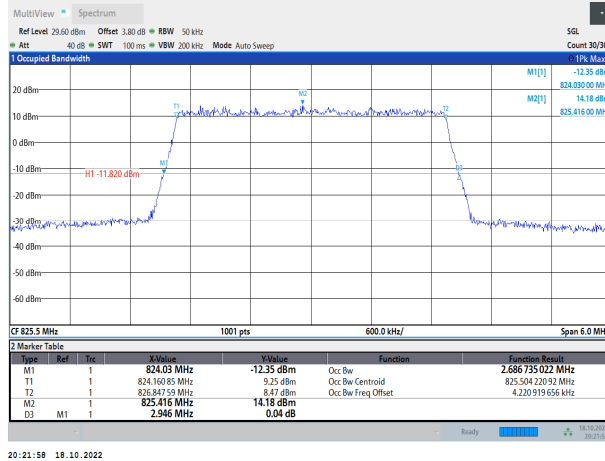
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Band5-3MHz-16QAM-20635-15RB#0



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

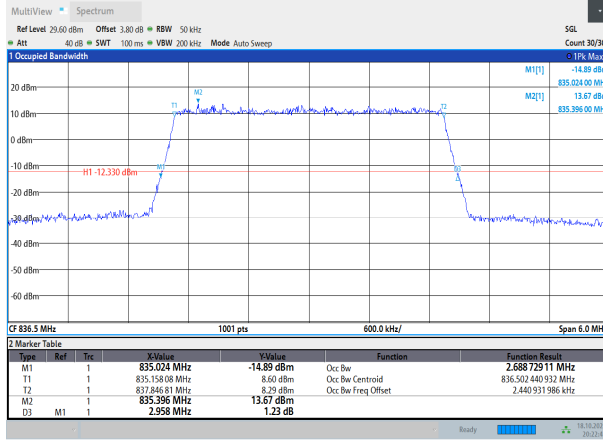


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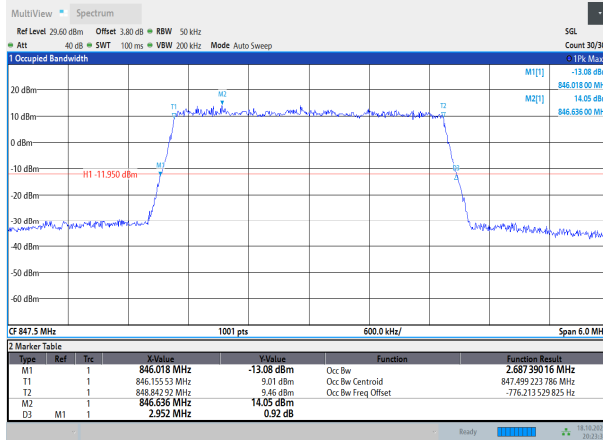
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Band5-3MHz-64QAM-20525-15RB#0



20:22:47 18.10.2022

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



20:23:36 18.10.2022

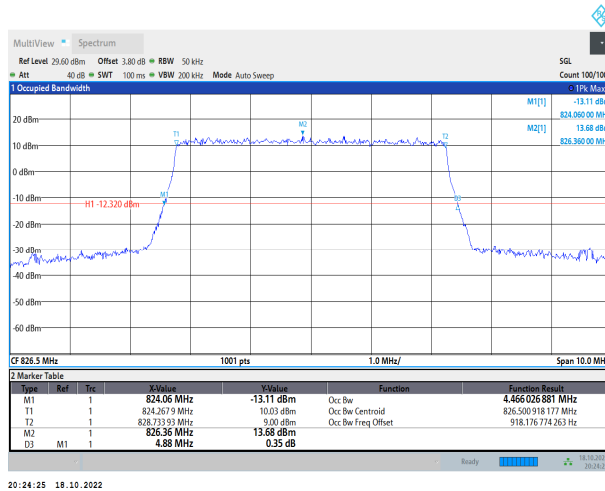


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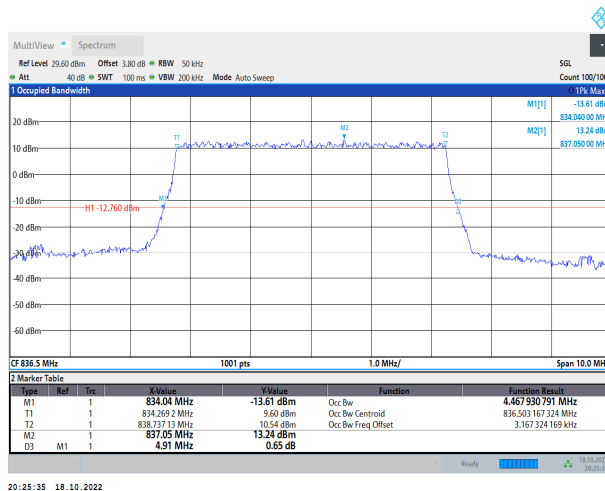
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Band5-5MHz-QPSK-20425-25RB#0



20:24:25 18.10.2022

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



20:25:35 18.10.2022

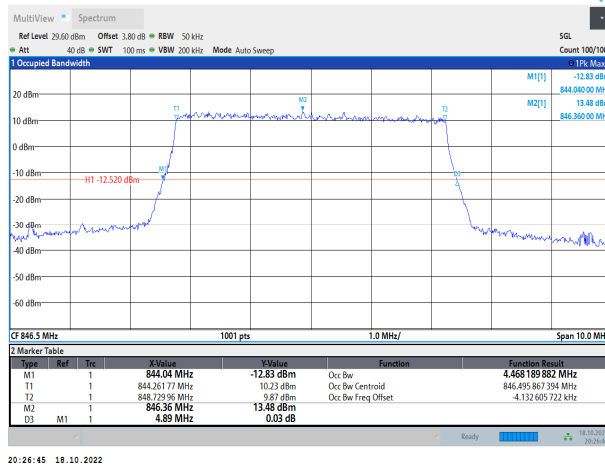


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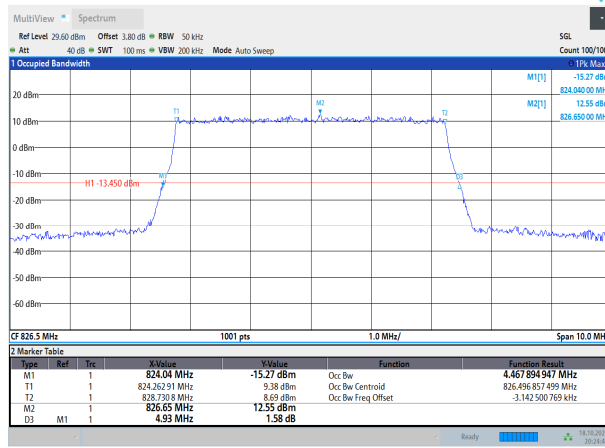
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Band5-5MHz-QPSK-20625-25RB#0



20:24:45 18.10.2022

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



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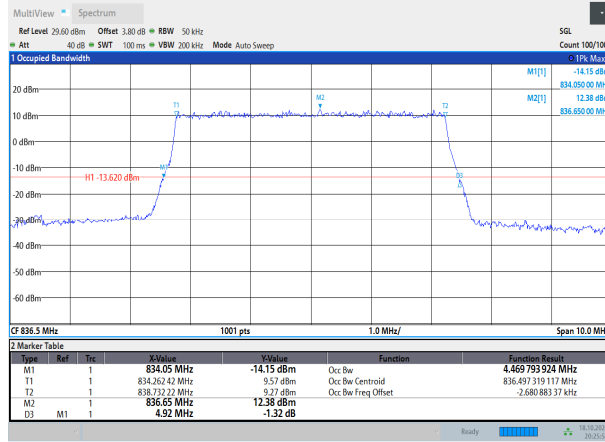


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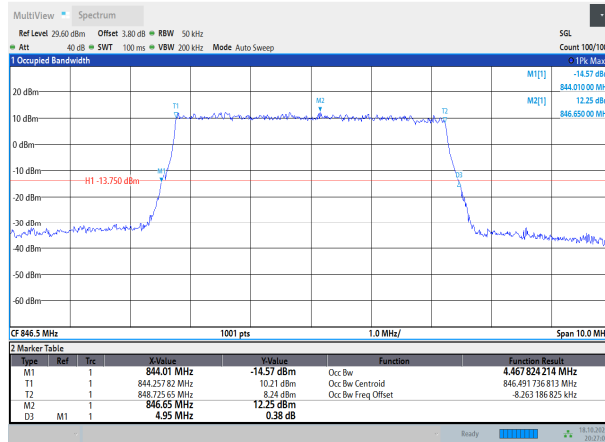
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Band5-5MHz-16QAM-20525-25RB#0



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



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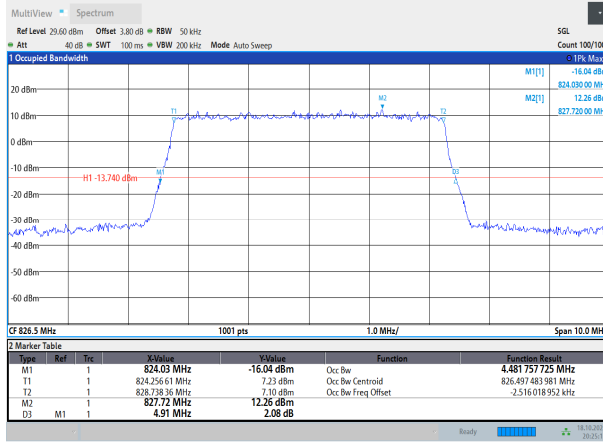


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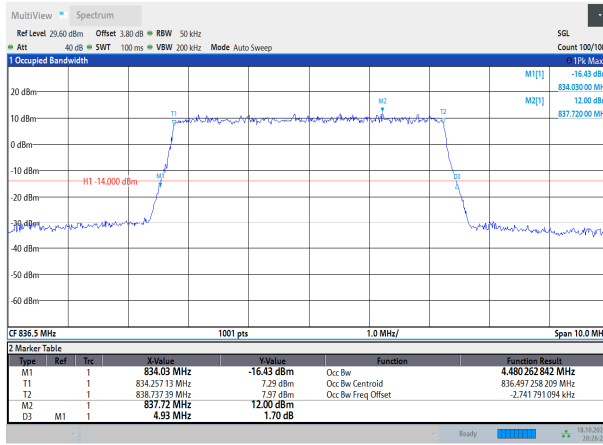
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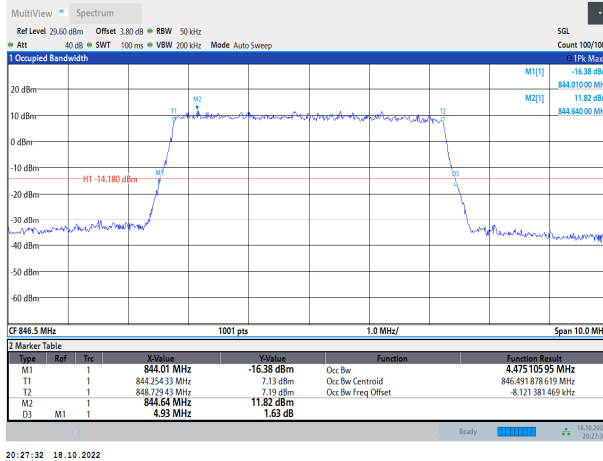


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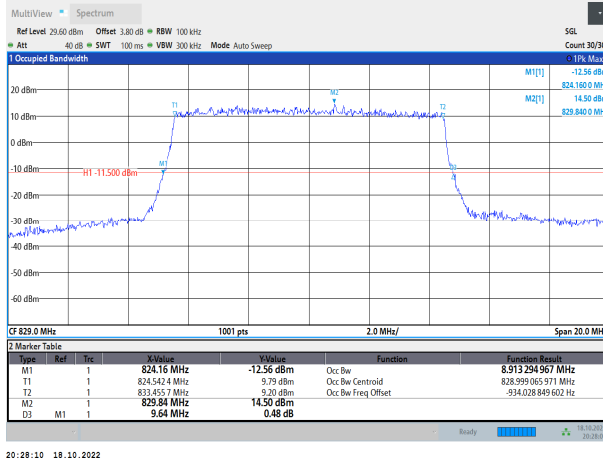
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Band5-10MHz-QPSK-20450-50RB#0

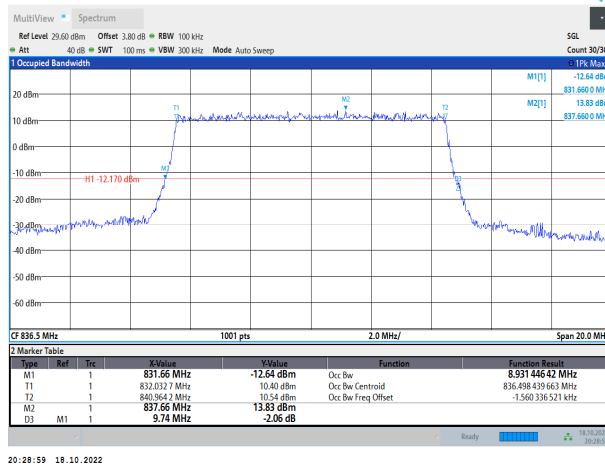


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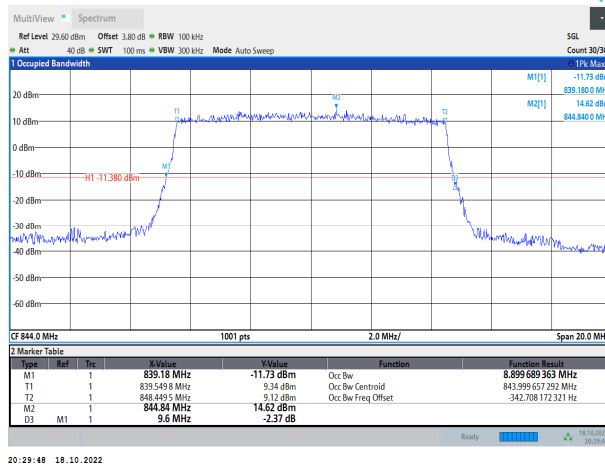
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Band5-10MHz-QPSK-20525-50RB#0



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

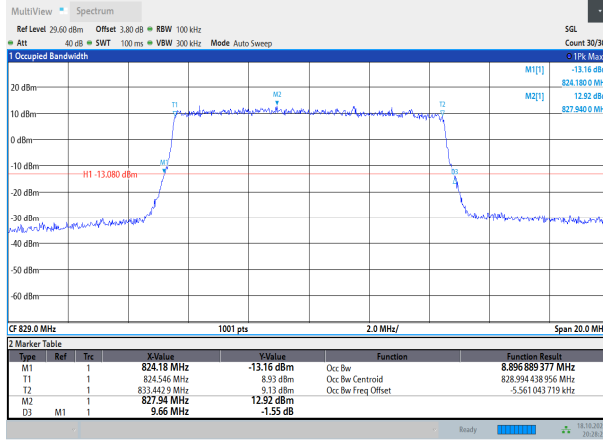


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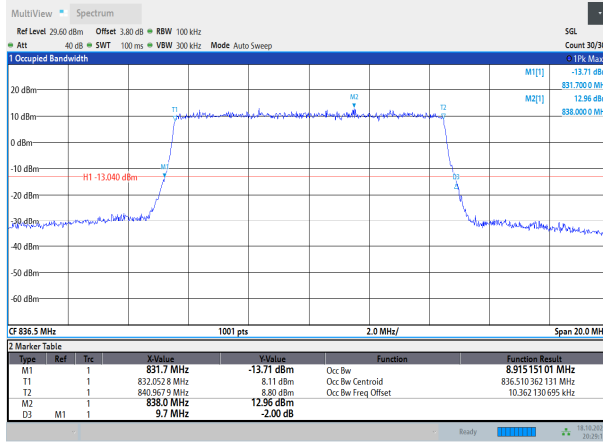
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Band5-10MHz-16QAM-20450-50RB#0



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

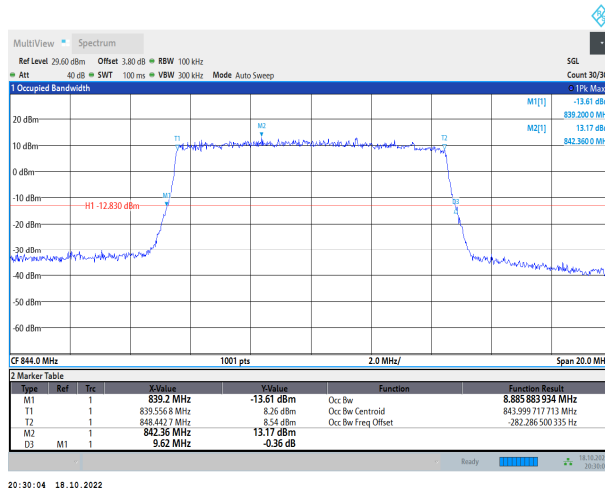


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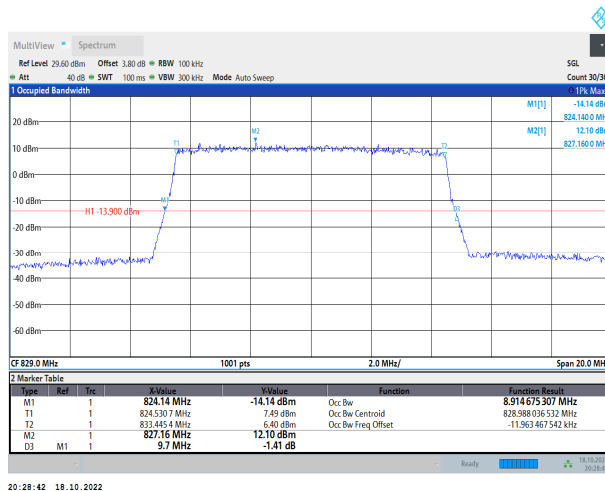
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Band5-10MHz-16QAM-20600-50RB#0



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

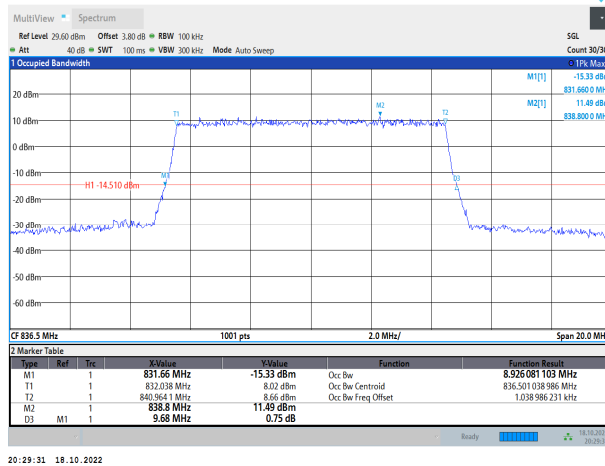


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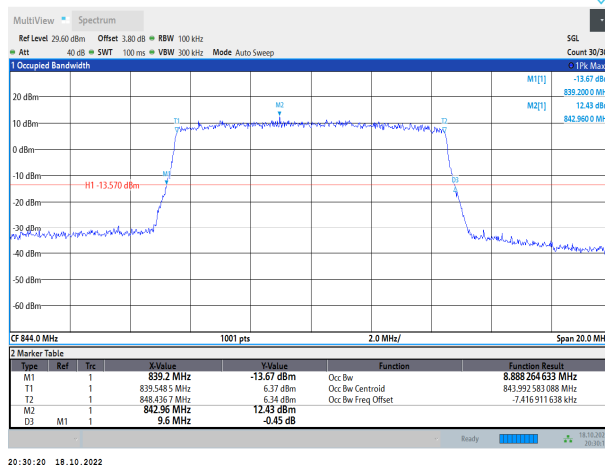
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Band5-10MHz-64QAM-20525-50RB#0



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



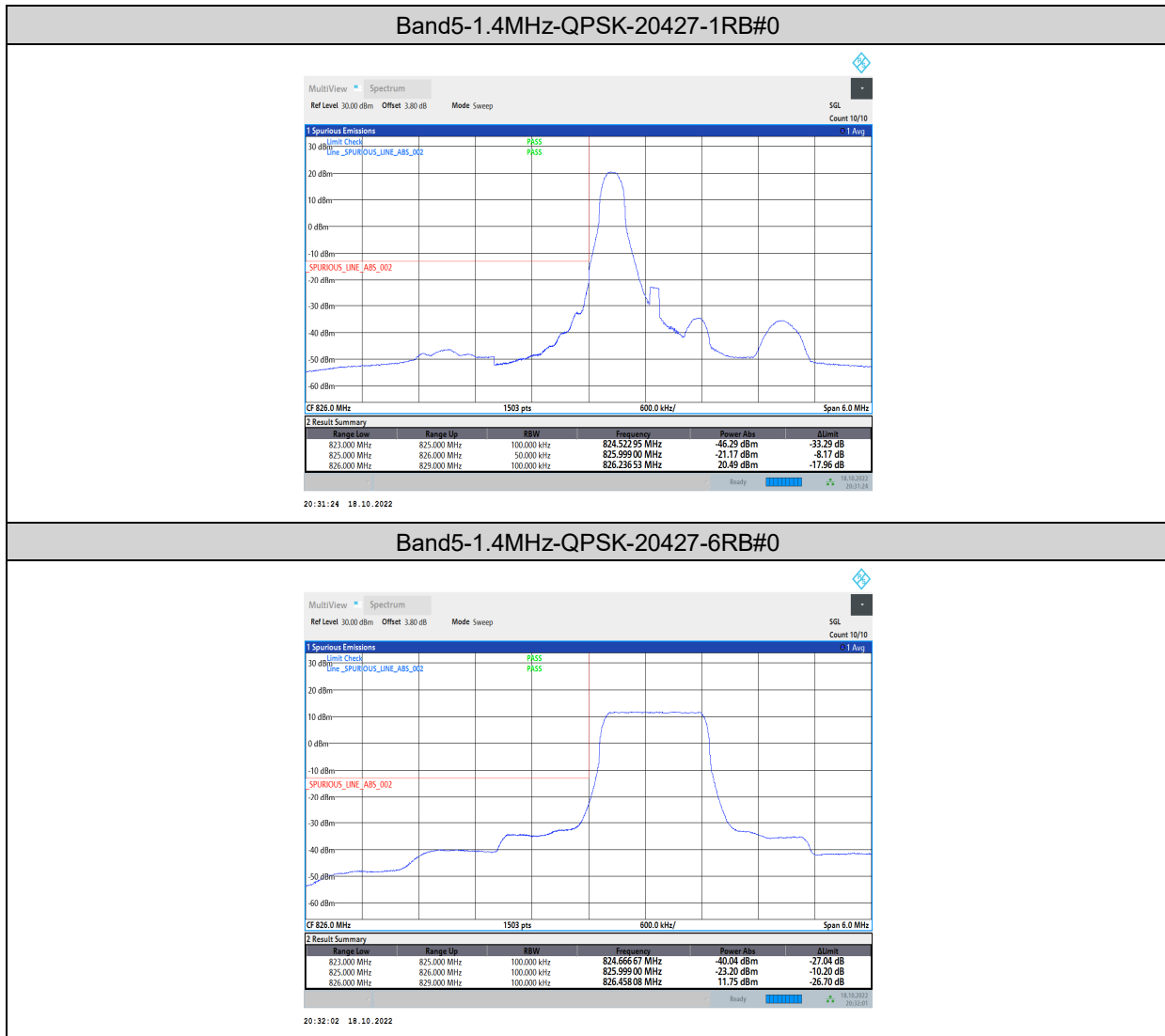
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Band Edge

Test Graphs

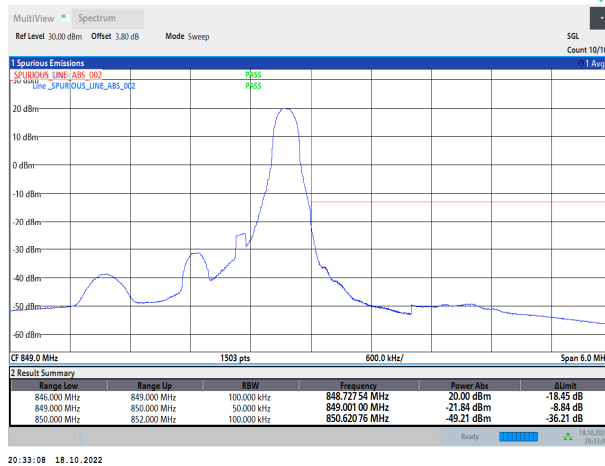


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Band5-1.4MHz-QPSK-20643-1RB#5



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

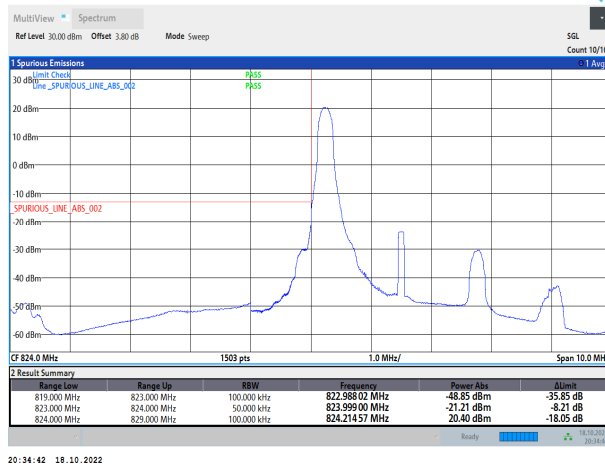


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Band5-3MHz-QPSK-20415-1RB#0



20:34:42 18.10.2022

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



20:35:21 18.10.2022

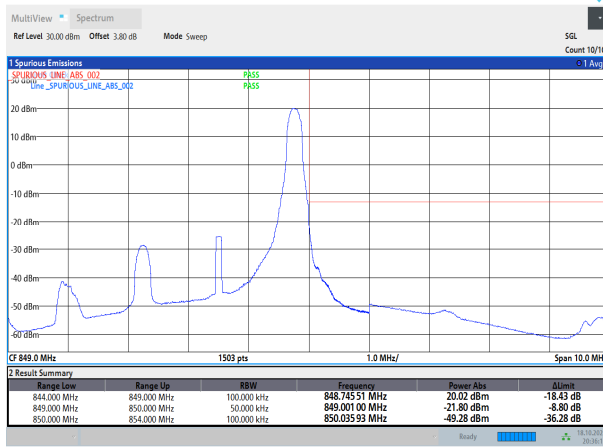


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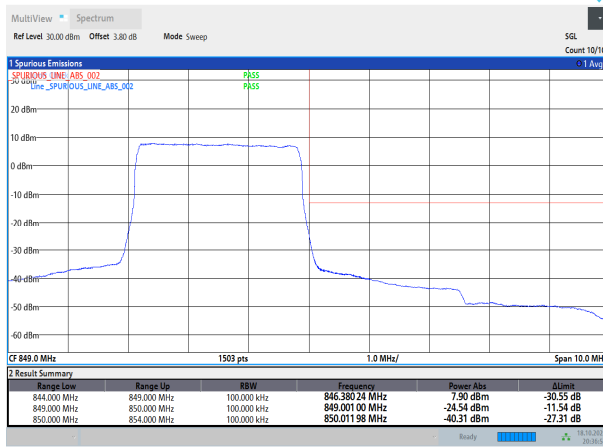
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Band5-3MHz-QPSK-20635-1RB#14



20:36:15 18.10.2022

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



20:36:53 18.10.2022

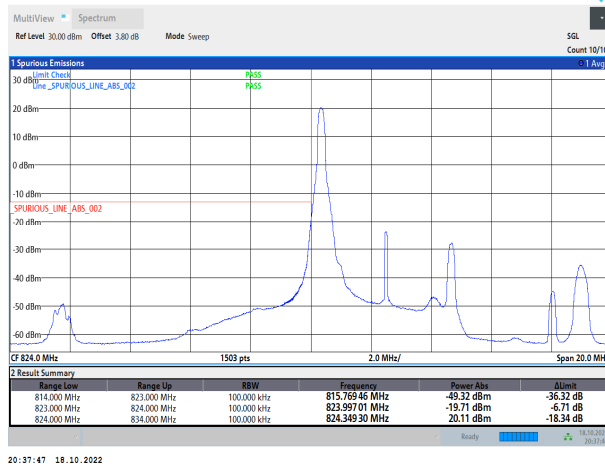


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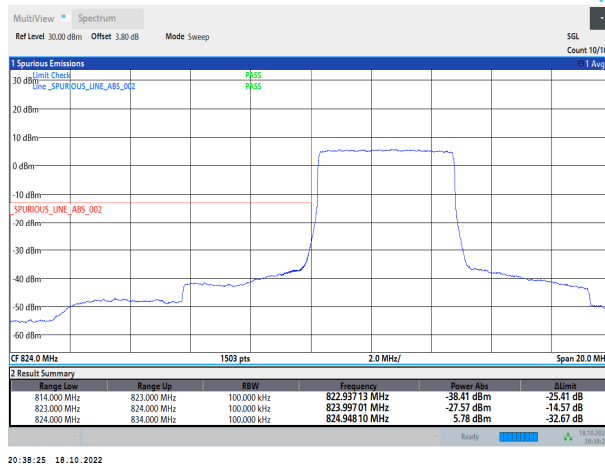
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Band5-5MHz-QPSK-20425-1RB#0



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

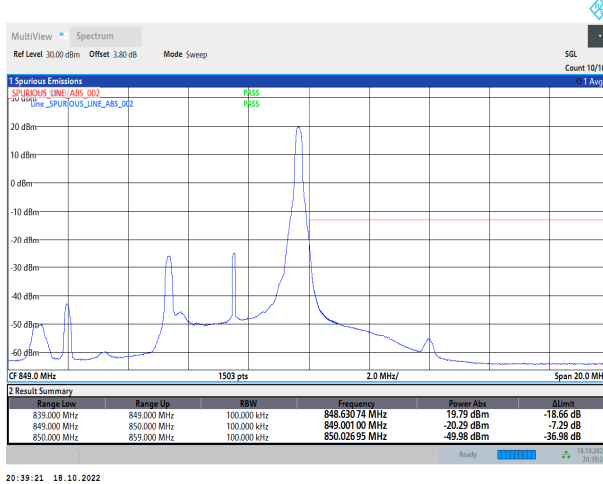


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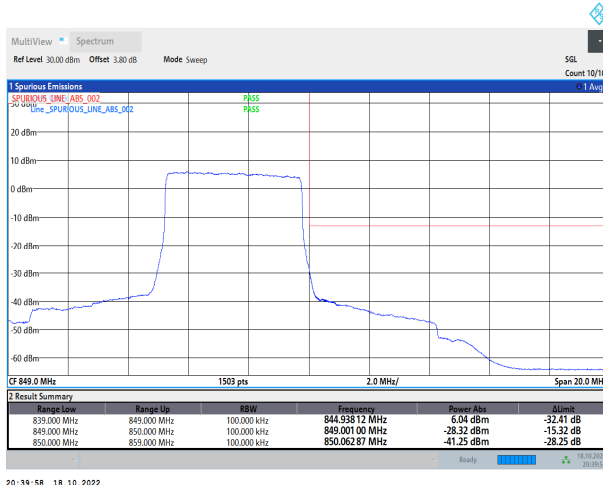
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Band5-5MHz-QPSK-20625-1RB#24



20:39:21 18.10.2022

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



20:39:58 18.10.2022

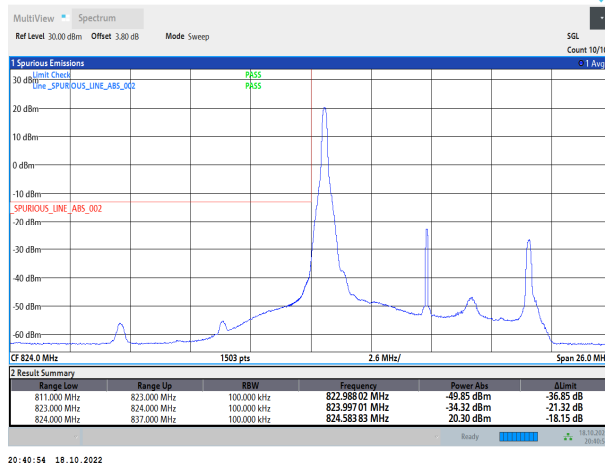


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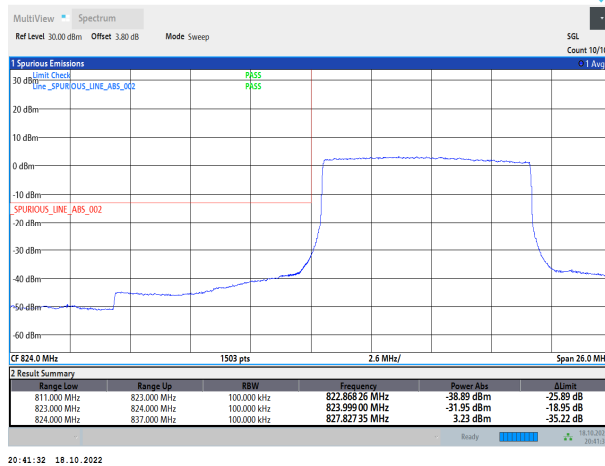
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Band5-10MHz-QPSK-20450-1RB#0



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

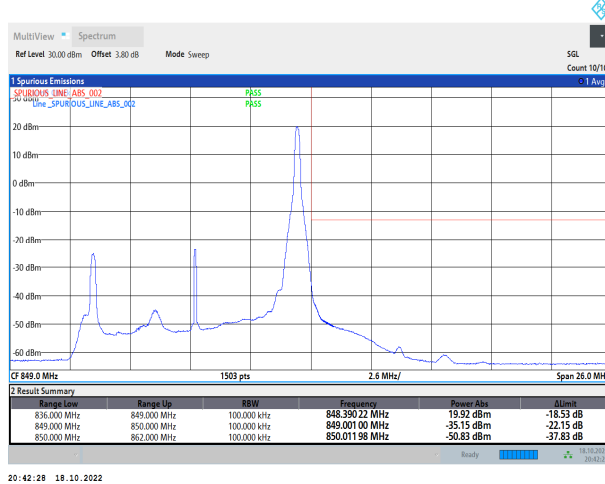


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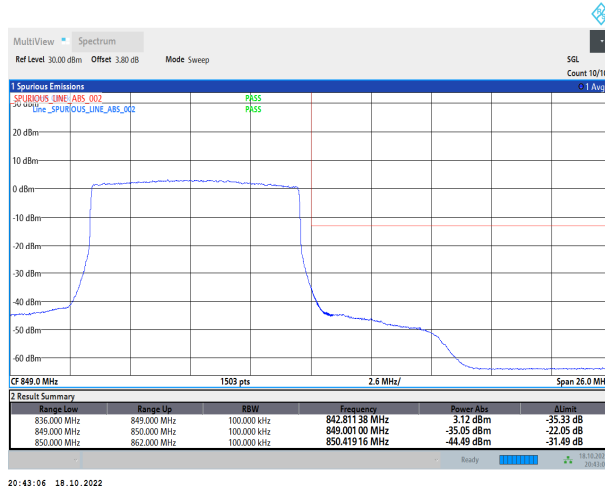
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Band5-10MHz-QPSK-20600-1RB#49



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



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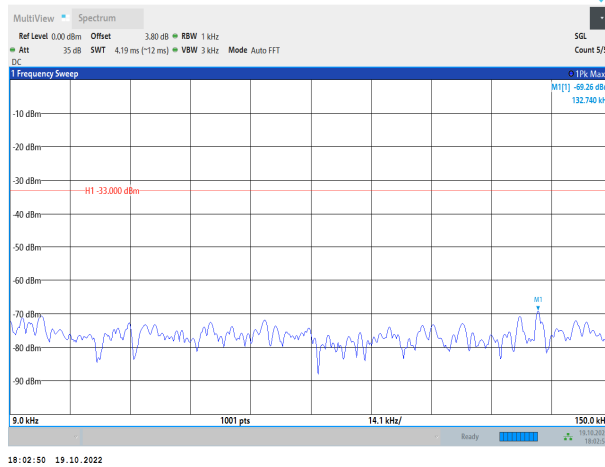
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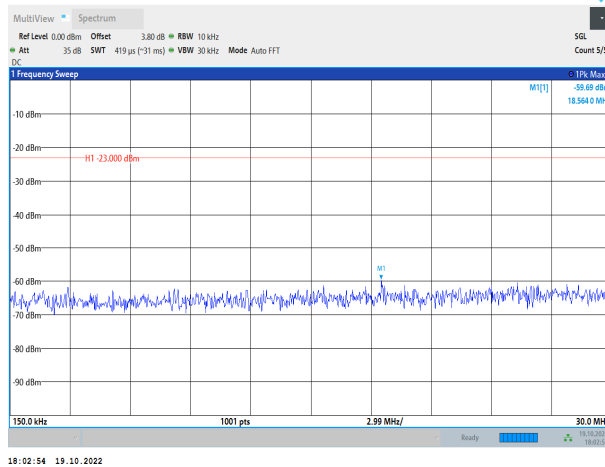
Conducted Spurious Emission

Test Graphs

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



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

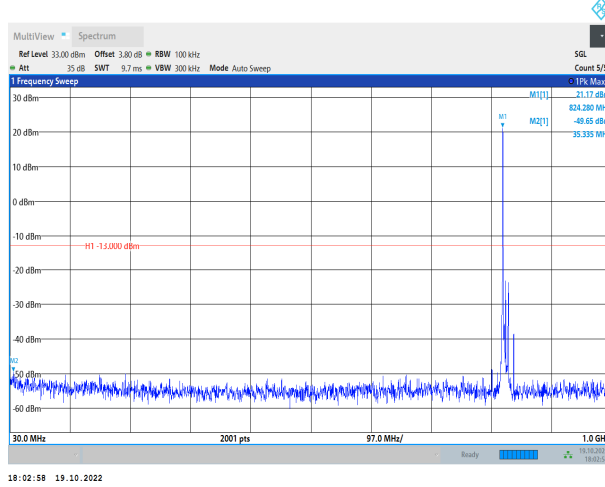


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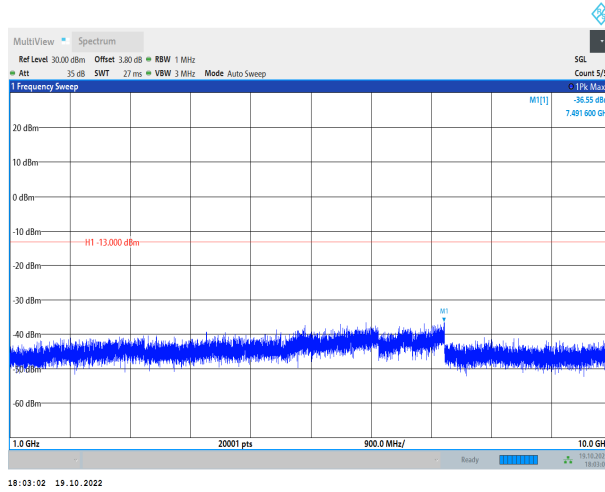
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



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

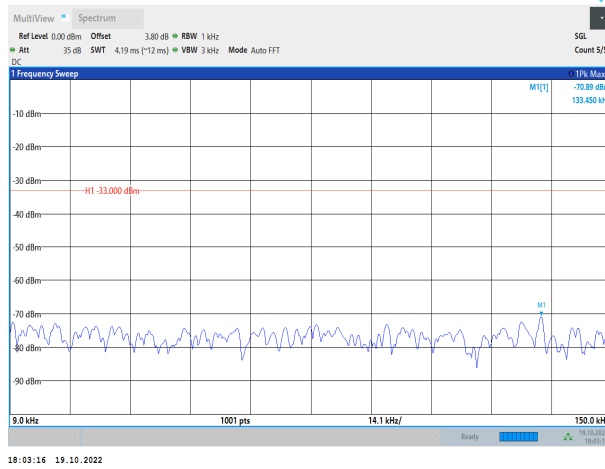


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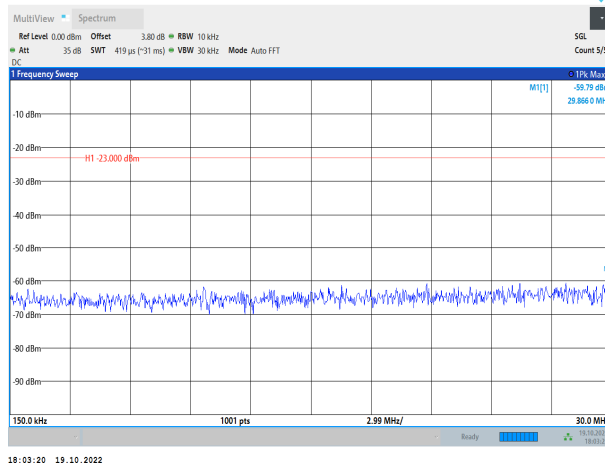
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



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

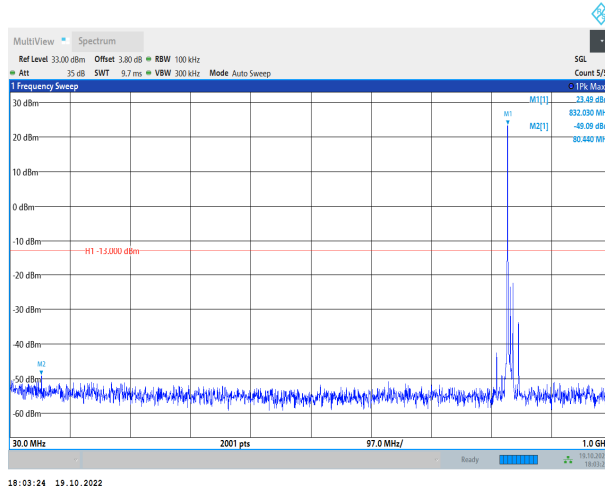


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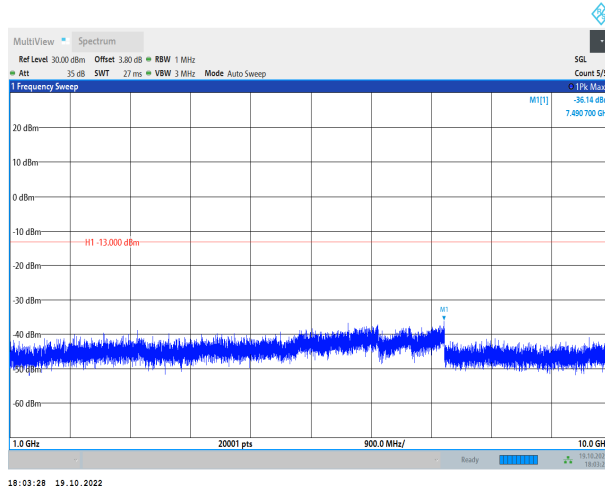
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



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

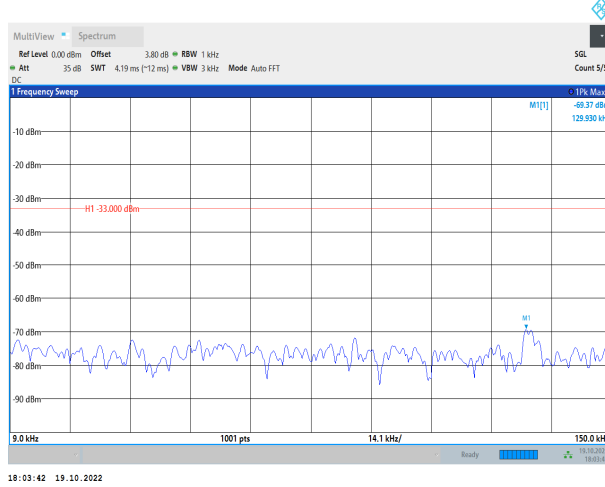


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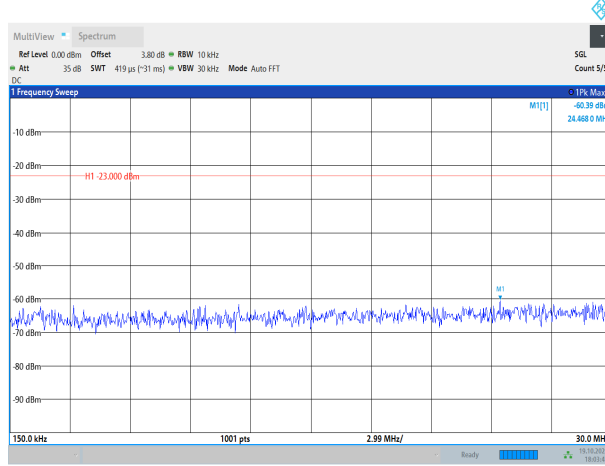
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



18:03:42 19.10.2022

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



18:03:46 19.10.2022

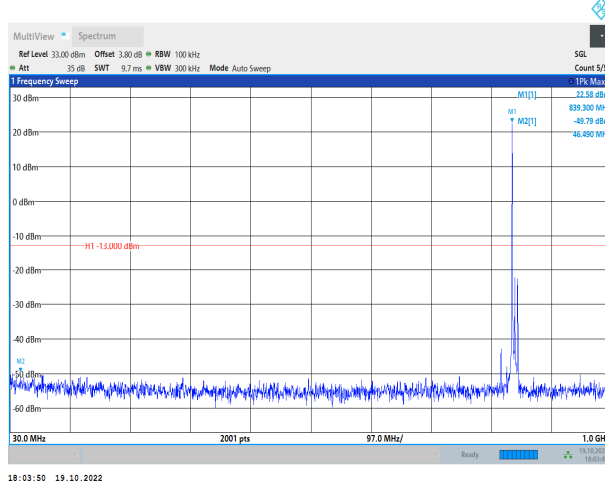


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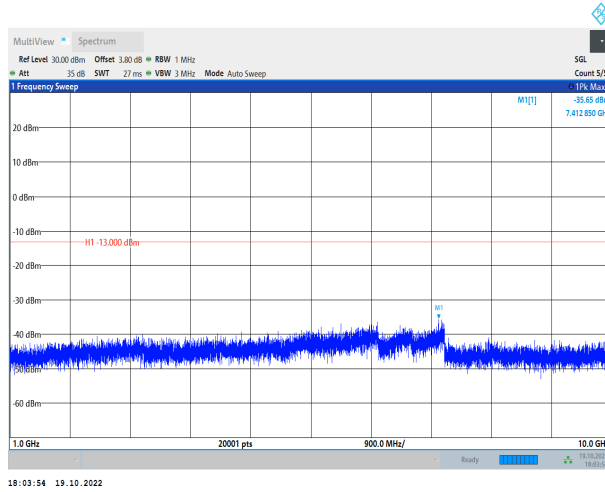
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE 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	59.69	-48.22	25.37	-58.42	-13.00	45.42	125	281	Horizontal
2	2473.7143	63.87	-47.32	27.68	-51.02	-13.00	38.02	144	0	Horizontal
3	3298.3600	51.82	-46.68	29.56	-60.56	-13.00	47.56	136	70	Horizontal
4	4122.9500	48.80	-45.91	30.99	-61.39	-13.00	48.39	256	109	Horizontal
5	4947.5400	49.59	-45.69	32.73	-58.63	-13.00	45.63	258	135	Horizontal
6	5772.1300	47.03	-44.64	33.65	-59.22	-13.00	46.22	196	162	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	53.30	-48.22	25.37	-64.81	-13.00	51.81	224	236	Vertical
2	2473.7700	53.82	-47.32	27.69	-61.07	-13.00	48.07	186	276	Vertical
3	3298.3600	50.57	-46.68	29.56	-61.81	-13.00	48.81	195	130	Vertical
4	4122.9500	48.52	-45.91	30.99	-61.67	-13.00	48.67	175	38	Vertical
5	4947.5400	49.30	-45.69	32.73	-58.92	-13.00	45.92	142	262	Vertical
6	5772.1300	47.25	-44.64	33.65	-59.00	-13.00	46.00	136	171	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	1664.1800	57.97	-48.20	25.38	-60.12	-13.00	47.12	125	177	Horizontal
2	2496.2700	61.46	-47.28	27.76	-53.32	-13.00	40.32	145	0	Horizontal
3	3328.3600	50.67	-46.64	29.52	-61.71	-13.00	48.71	185	31	Horizontal
4	4160.4500	48.47	-45.94	31.04	-61.69	-13.00	48.69	165	11	Horizontal
5	4992.5400	48.78	-45.79	32.86	-59.41	-13.00	46.41	177	11	Horizontal
6	5824.6300	48.78	-44.74	33.80	-57.42	-13.00	44.42	136	348	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	52.54	-48.20	25.38	-65.55	-13.00	52.55	248	348	Vertical
2	2496.2700	52.76	-47.28	27.76	-62.02	-13.00	49.02	195	359	Vertical
3	3328.3600	50.63	-46.64	29.52	-61.75	-13.00	48.75	175	3	Vertical
4	4160.4500	48.26	-45.94	31.04	-61.90	-13.00	48.90	142	78	Vertical
5	4992.5400	50.84	-45.79	32.86	-57.35	-13.00	44.35	166	300	Vertical
6	5824.6300	46.66	-44.74	33.80	-59.54	-13.00	46.54	135	117	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	57.88	-48.18	25.38	-60.18	-13.00	47.18	245	162	Horizontal
2	2518.7700	64.61	-47.21	27.83	-50.02	-13.00	37.02	189	1	Horizontal
3	3358.3600	49.89	-46.60	29.48	-62.49	-13.00	49.49	195	347	Horizontal
4	4197.9500	48.45	-45.96	31.10	-61.67	-13.00	48.67	111	83	Horizontal
5	5037.5400	47.53	-45.65	32.90	-60.48	-13.00	47.48	176	4	Horizontal
6	5887.1300	48.07	-44.93	33.92	-58.20	-13.00	45.20	135	201	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	53.87	-48.18	25.38	-64.19	-13.00	51.19	278	198	Vertical
2	2518.7700	55.23	-47.21	27.83	-59.40	-13.00	46.40	148	13	Vertical
3	3358.3600	49.79	-46.60	29.48	-62.59	-13.00	49.59	195	4	Vertical
4	4197.9500	47.88	-45.96	31.10	-62.24	-13.00	49.24	165	318	Vertical
5	5037.5400	47.47	-45.65	32.90	-60.54	-13.00	47.54	145	237	Vertical
6	5887.1300	49.43	-44.93	33.92	-56.84	-13.00	43.84	129	145	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) - Pre-amplifier (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	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.30	-0.001554	±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	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.70	-0.002032	±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	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.40	-0.001674	±2.5	PASS

---End of Attachment---



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