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# Appendix B.4

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.01	19.56	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.13	19.68	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.97	19.52	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.08	18.63	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.22	19.77	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.18	19.73	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.01	19.56	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.08	18.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23	19.55	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.97	19.52	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.77	19.32	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.94	18.49	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.53	19.08	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.37	18.92	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.3	18.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.14	17.69	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.32	18.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.57	19.12	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.3	18.85	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.15	17.7	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.53	19.08	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.37	18.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.19	18.74	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.12	17.67	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21	17.55	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.05	17.6	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.78	17.33	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	19.82	16.37	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.24	17.79	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.25	17.8	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.49	18.04	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.05	16.6	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.18	17.73	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	20.79	17.34	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	20.65	17.2	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.6	16.15	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.15	19.7	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.15	19.7	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.1	19.65	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.14	18.69	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.19	19.74	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.27	19.82	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.19	19.74	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.19	18.74	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.12	19.67	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.21	19.76	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.98	19.53	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.15	18.7	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.53	19.08	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.54	19.09	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.44	18.99	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.21	17.76	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.52	19.07	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.62	19.17	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.31	18.86	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.07	17.62	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.4	18.95	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.35	18.9	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.28	18.83	38.45	PASS



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Band5	3MHz	16QAM	20635	15RB#0	21.15	17.7	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.26	17.81	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	20.68	17.23	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	20.44	16.99	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.63	16.18	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.51	18.06	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.45	18	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.36	17.91	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.24	16.79	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.17	17.72	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.18	17.73	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	20.76	17.31	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.23	16.78	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.09	19.64	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.9	19.45	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.05	19.6	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.13	18.68	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.19	19.74	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.09	19.64	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.15	19.7	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.13	18.68	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.02	19.57	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.96	19.51	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.05	19.6	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.1	18.65	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.49	19.04	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.44	18.99	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.42	18.97	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.18	17.73	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.52	19.07	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.61	19.16	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.57	19.12	38.45	PASS



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Band5	5MHz	16QAM	20525	25RB#0	21.16	17.71	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.39	18.94	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.15	18.7	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.31	18.86	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.07	17.62	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.38	17.93	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	20.59	17.14	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	20.52	17.07	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	19.59	16.14	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.37	17.92	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.36	17.91	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.31	17.86	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.18	16.73	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	20.77	17.32	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.21	17.76	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	20.69	17.24	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.84	16.39	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.09	19.64	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.05	19.6	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.03	19.58	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.18	18.73	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.12	19.67	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.11	19.66	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.07	19.62	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.12	18.67	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.06	19.61	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.98	19.53	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.04	19.59	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.24	18.79	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.46	19.01	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.45	19	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.48	19.03	38.45	PASS



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Band5	10MHz	16QAM	20450	50RB#0	21.2	17.75	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.64	19.19	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.37	18.92	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.38	18.93	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.19	17.74	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.42	18.97	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.25	18.8	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.15	18.7	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.22	17.77	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.3	17.85	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	20.66	17.21	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.37	17.92	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	19.94	16.49	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.41	17.96	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.44	17.99	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.19	17.74	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.27	16.82	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.24	17.79	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	20.88	17.43	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.04	17.59	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20	16.55	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	5.40	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.98	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.20	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.14	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.84	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.04	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.80	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.36	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.48	13	PASS

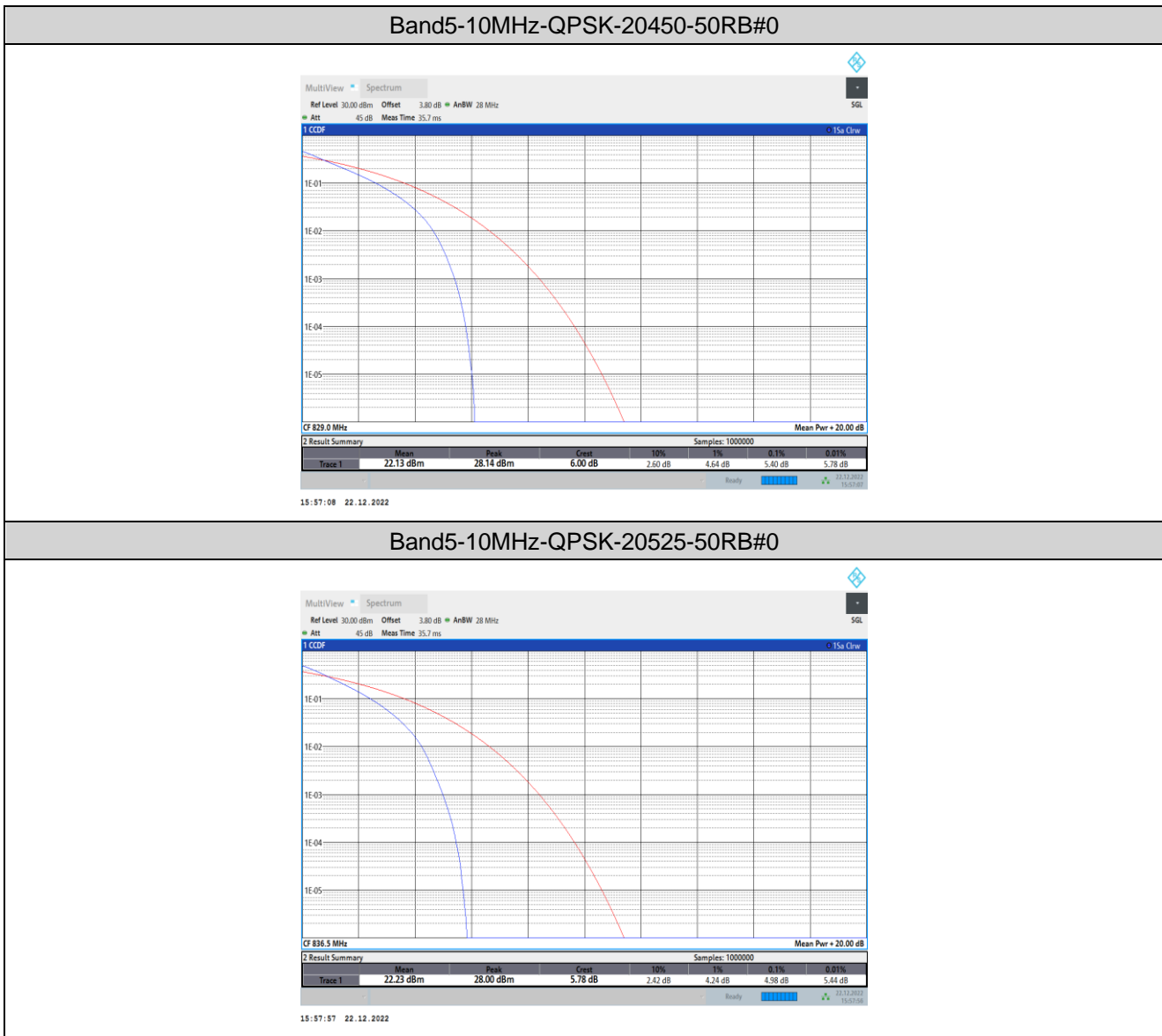


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Test Graphs



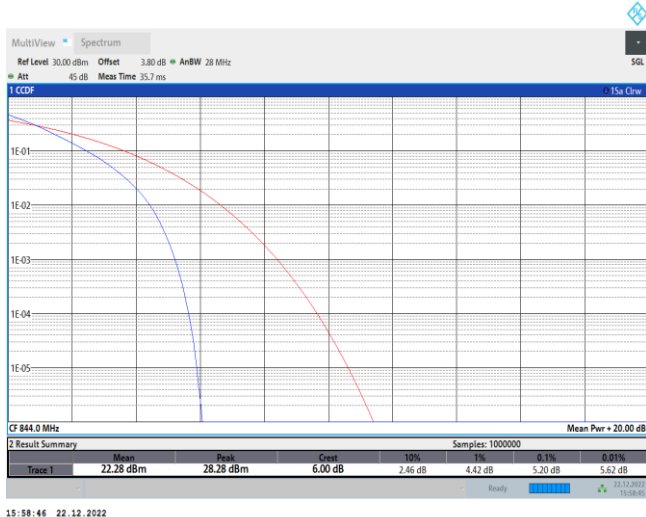
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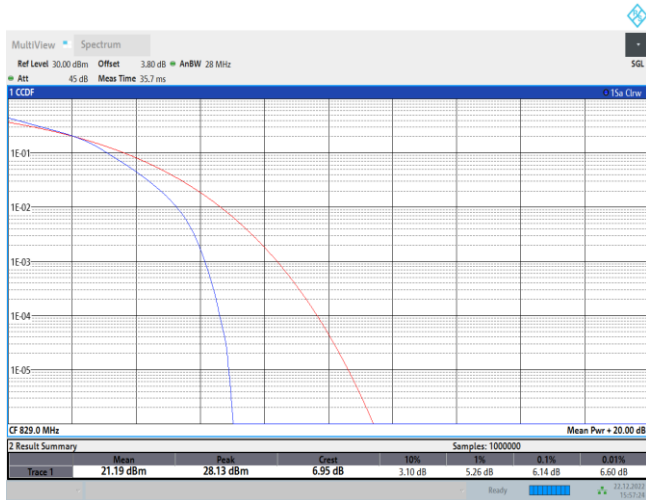


Band5-10MHz-QPSK-20600-50RB#0



15:58:46 22.12.2022

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



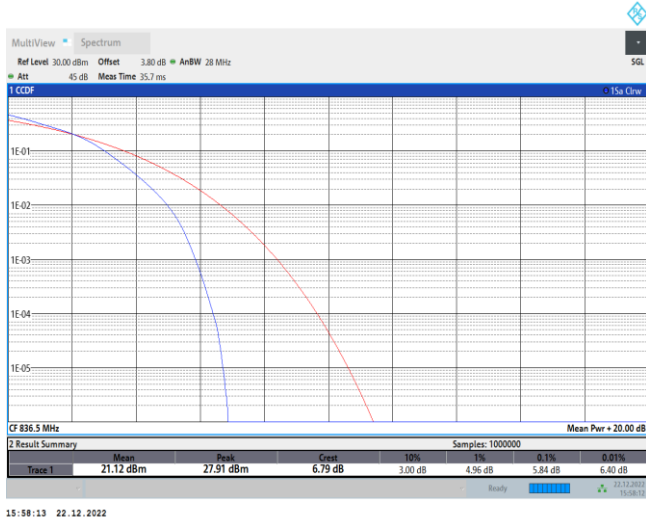
15:57:24 22.12.2022



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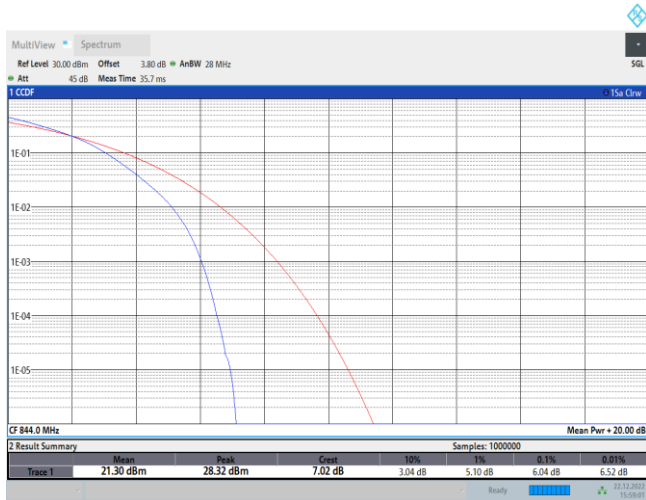
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Band5-10MHz-16QAM-20525-50RB#0



15:58:13 22.12.2022

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



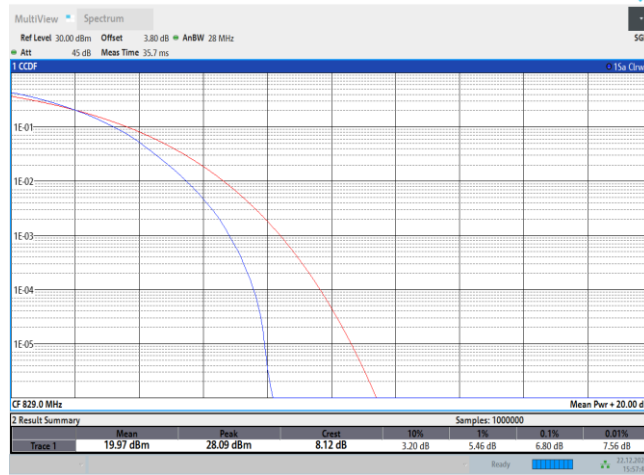
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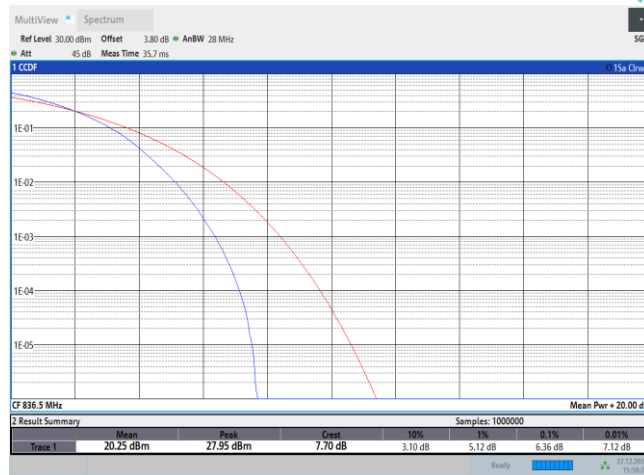
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Band5-10MHz-64QAM-20450-50RB#0



15:57:40 22.12.2022

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



15:58:29 22.12.2022

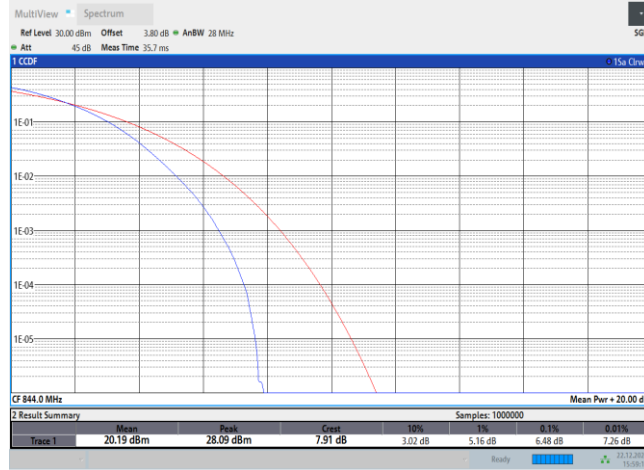


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Band5-10MHz-64QAM-20600-50RB#0



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Rev.: 01

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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



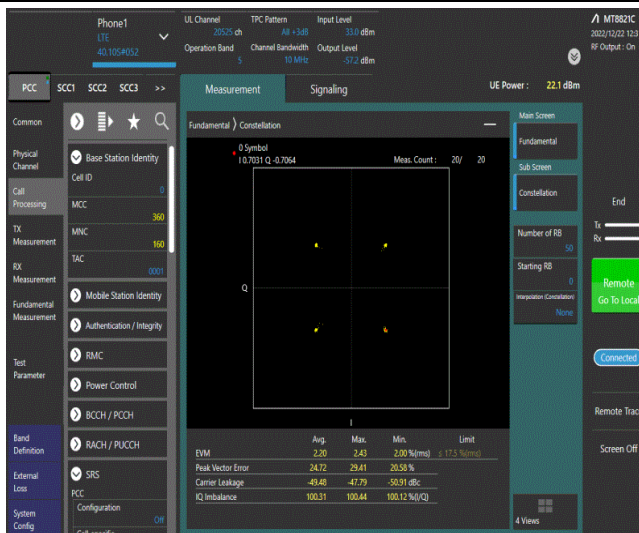
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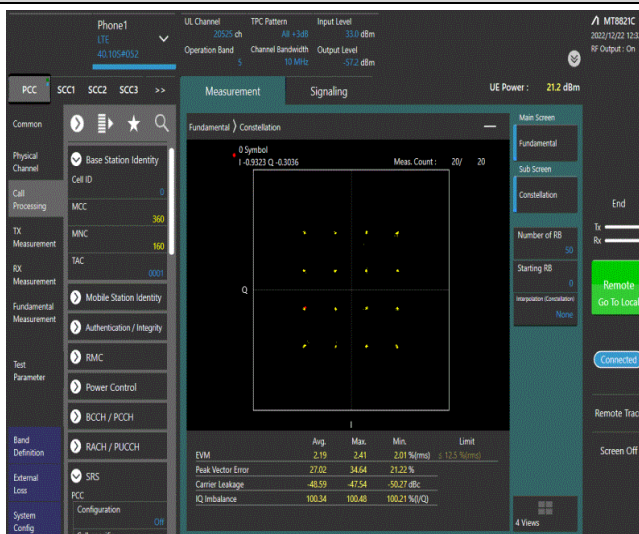
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Test Graphs

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



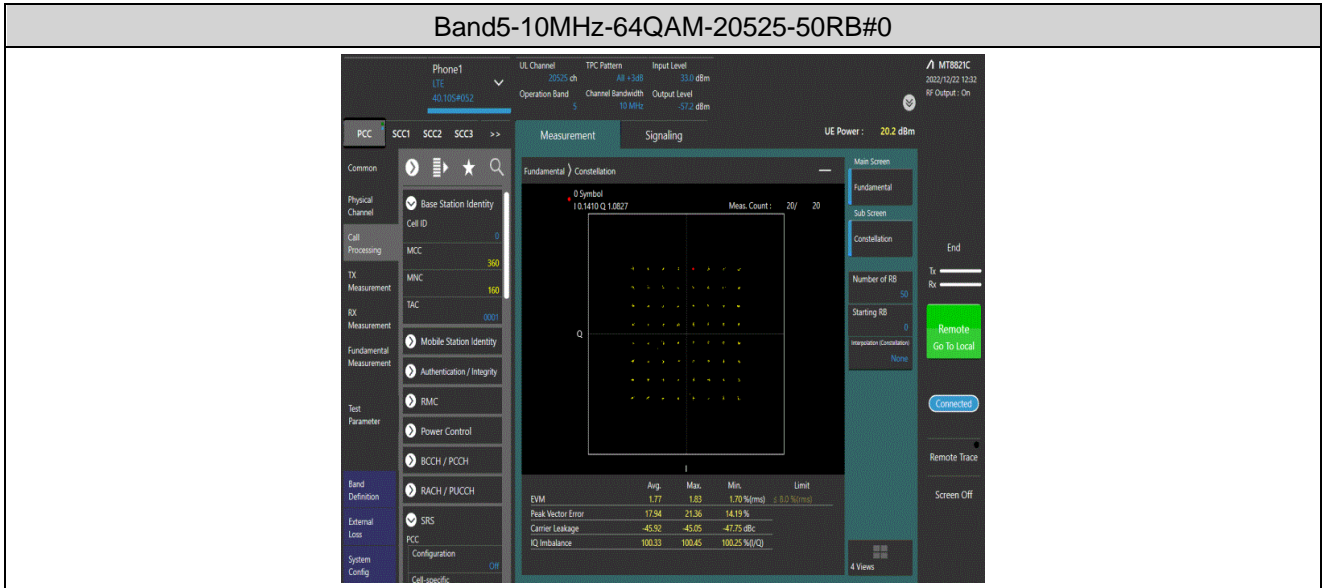
Band5-10MHz-16QAM-20525-50RB#0



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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	1.084	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	1.092	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.092	1.25	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.093	1.25	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.09	1.24	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.091	1.24	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.091	1.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.695	2.96	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.693	2.98	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.691	2.97	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.689	2.99	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.686	2.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.98	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.689	2.97	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.686	2.95	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.686	2.96	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.475	4.89	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.467	4.89	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.468	4.87	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.47	4.89	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.465	4.92	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.463	4.90	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.483	4.91	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.473	4.90	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.472	4.90	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.974	9.72	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.896	9.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.945	9.70	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.938	9.66	PASS



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Band5	10MHz	16QAM	20525	50RB#0	8.882	9.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.918	9.64	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.952	9.68	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.897	9.58	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.942	9.64	PASS



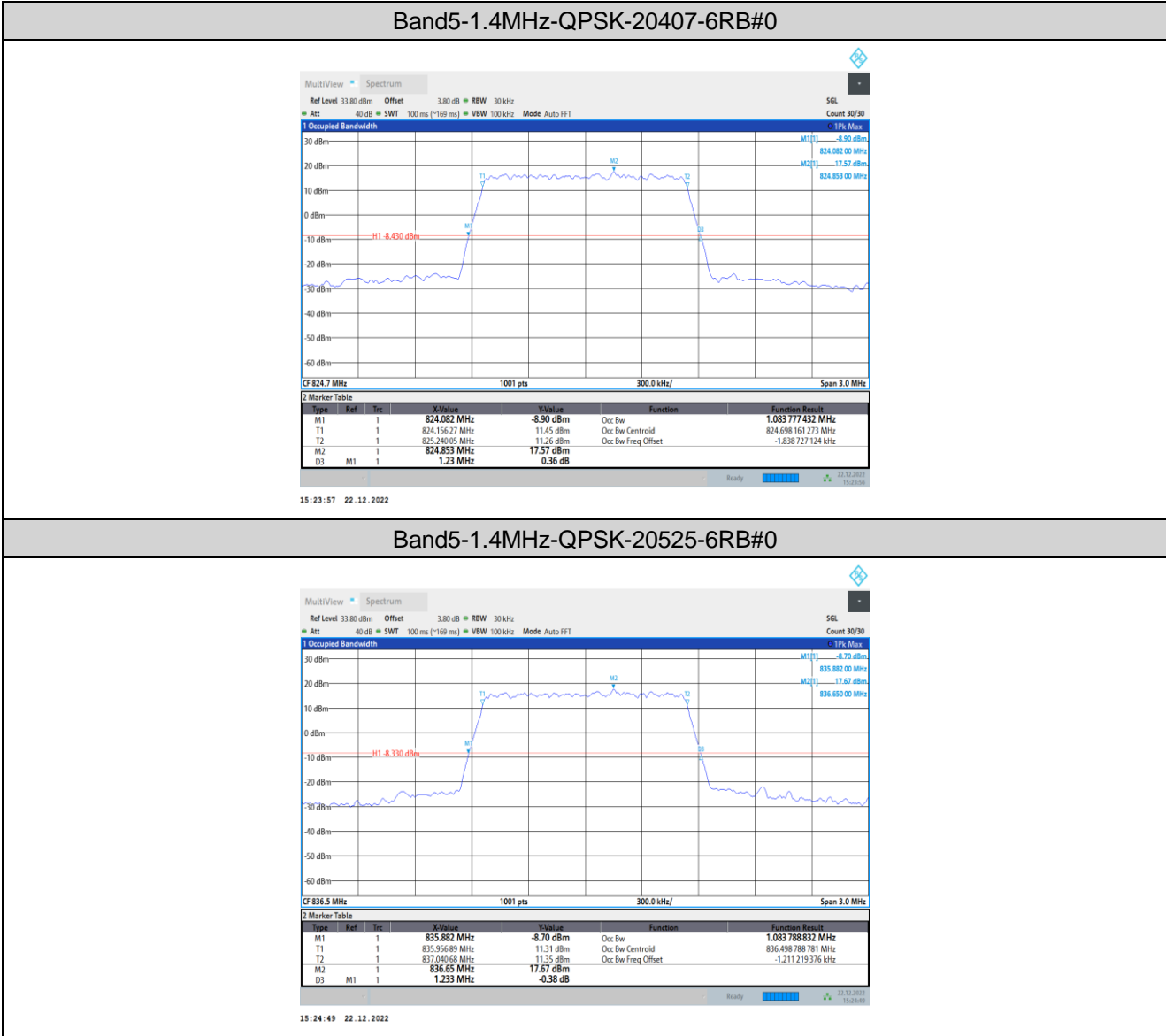
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Test Graphs

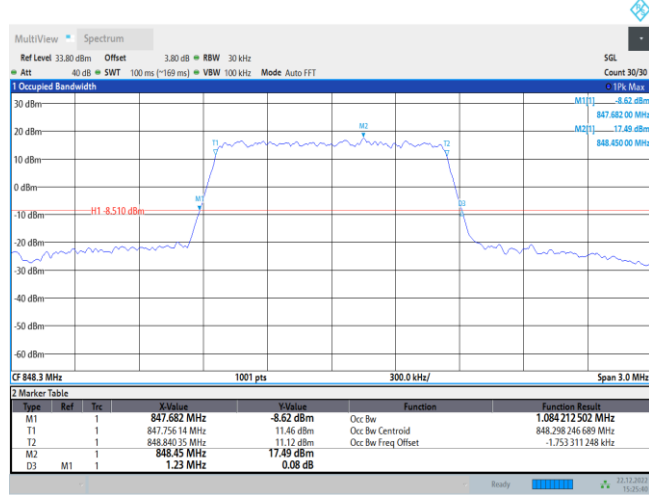


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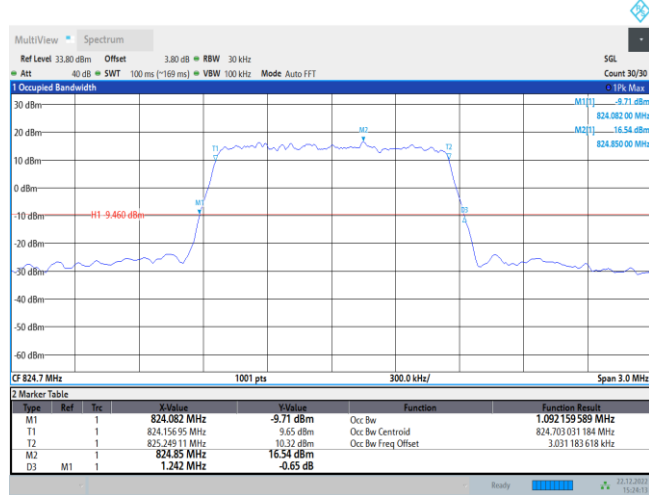
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Band5-1.4MHz-QPSK-20643-6RB#0



15:25:41 22.12.2022

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



15:24:14 22.12.2022

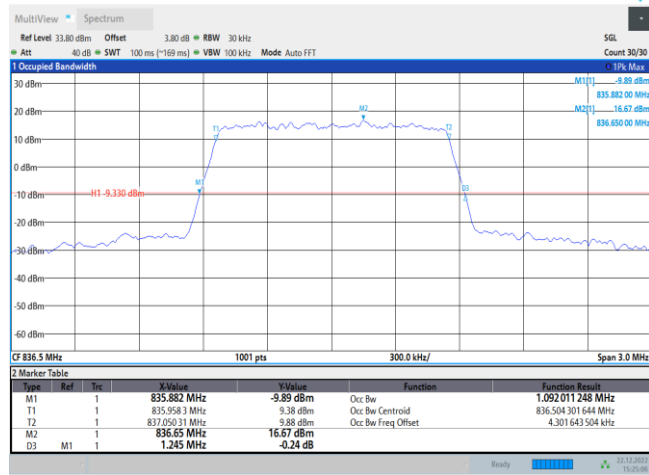


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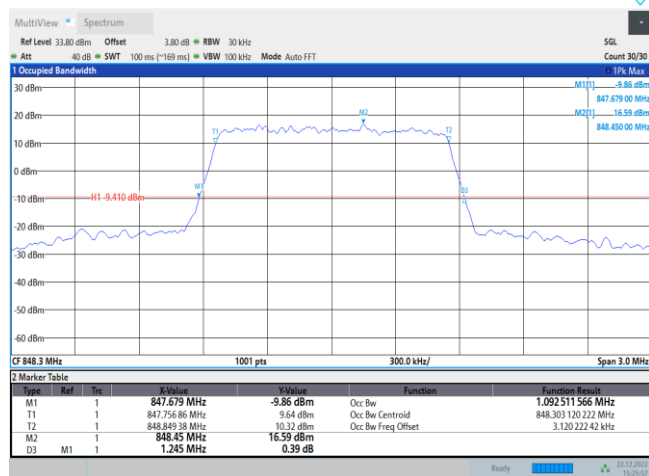
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Band5-1.4MHz-16QAM-20525-6RB#0



15:25:06 22.12.2022

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



15:25:58 22.12.2022

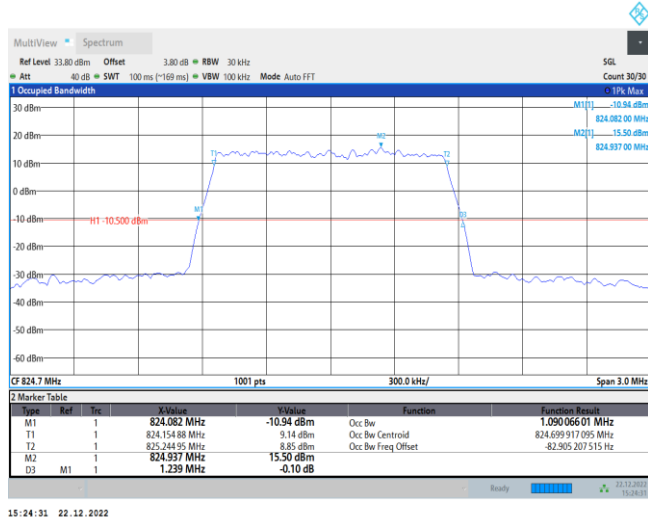


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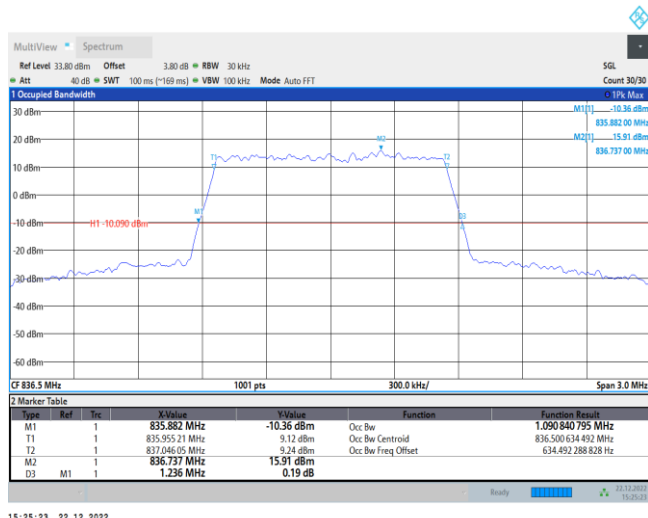
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Band5-1.4MHz-64QAM-20407-6RB#0



15:24:31 22.12.2022

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



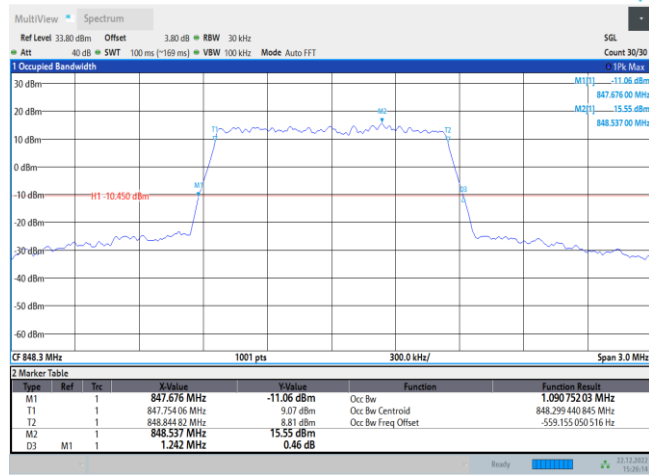
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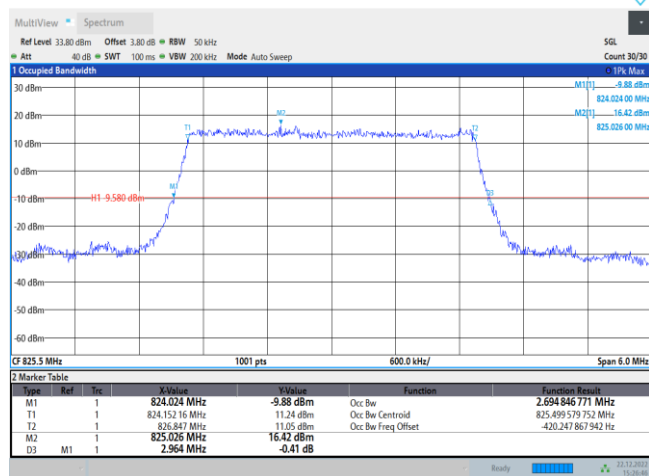
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Band5-1.4MHz-64QAM-20643-6RB#0



15:26:15 22.12.2022

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



15:26:46 22.12.2022



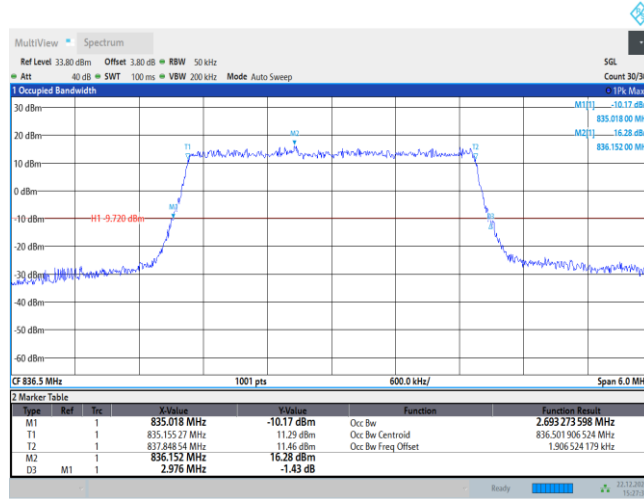
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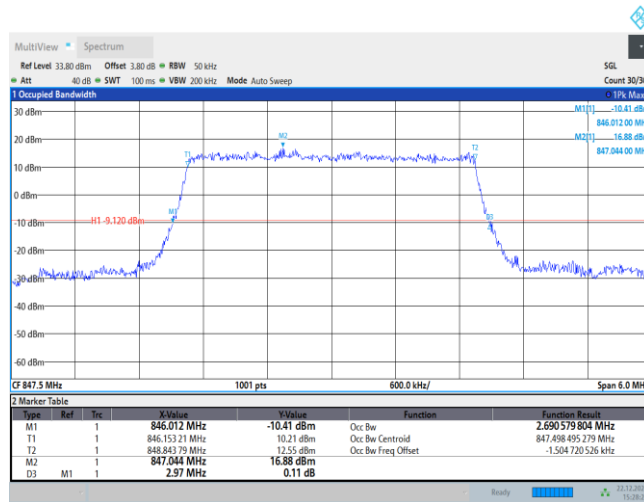
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Band5-3MHz-QPSK-20525-15RB#0



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

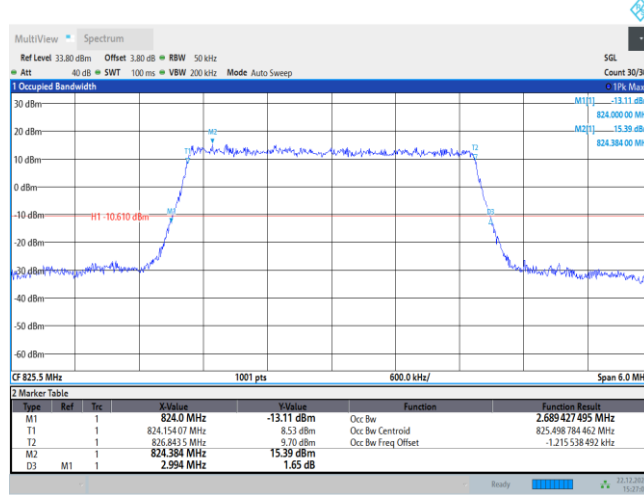


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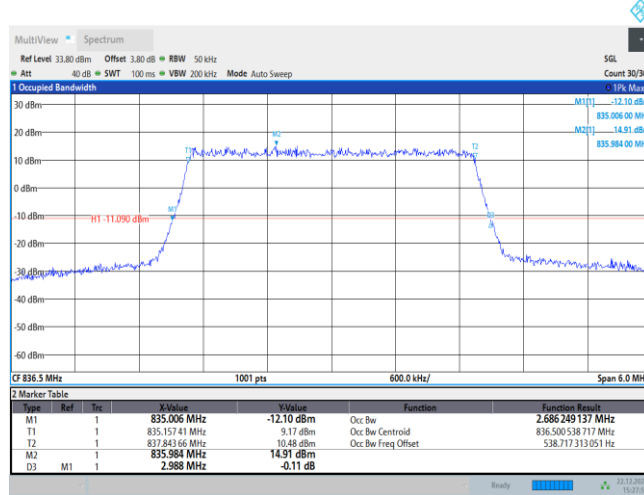
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Band5-3MHz-16QAM-20415-15RB#0



15:27:03 22.12.2022

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



15:27:51 22.12.2022



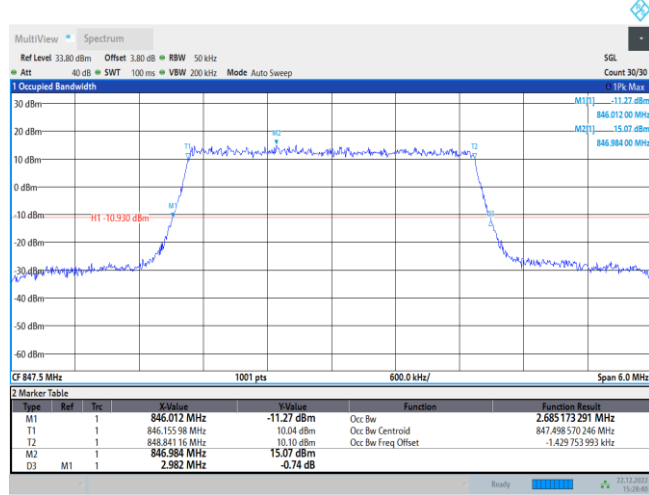
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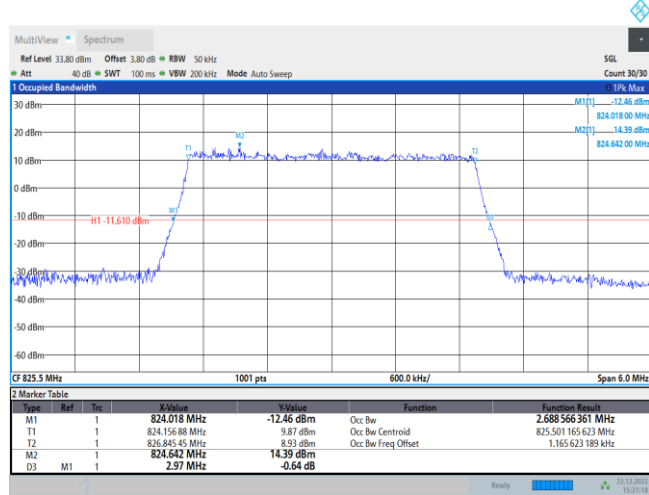


Band5-3MHz-16QAM-20635-15RB#0



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



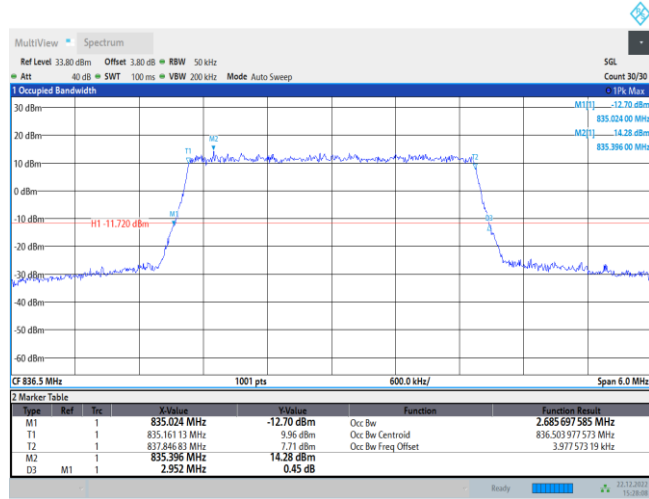
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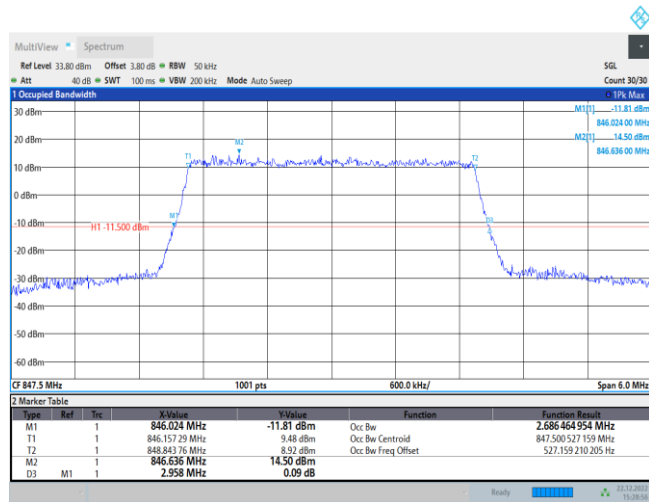
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Band5-3MHz-64QAM-20525-15RB#0



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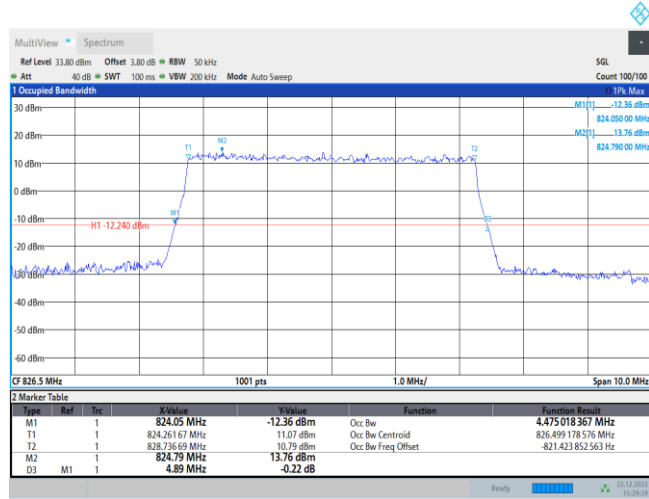
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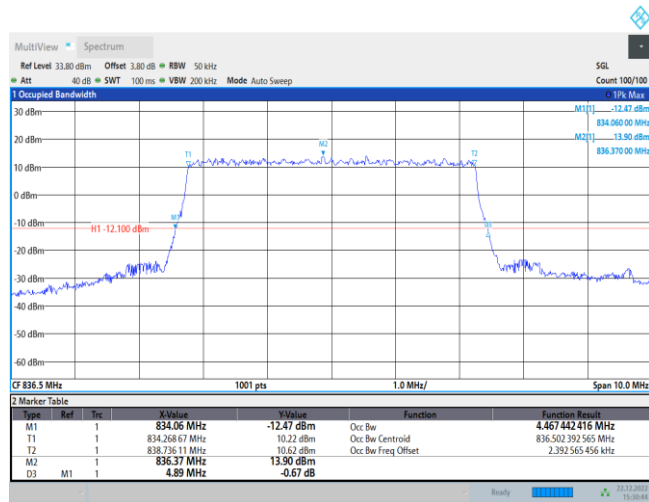
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15:29:35 22.12.2022

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



15:30:45 22.12.2022

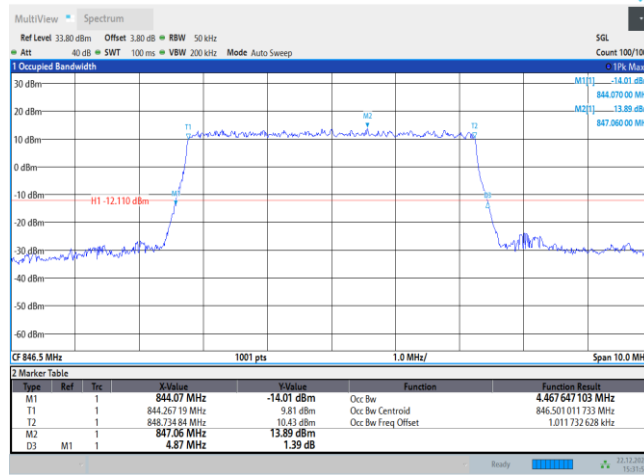


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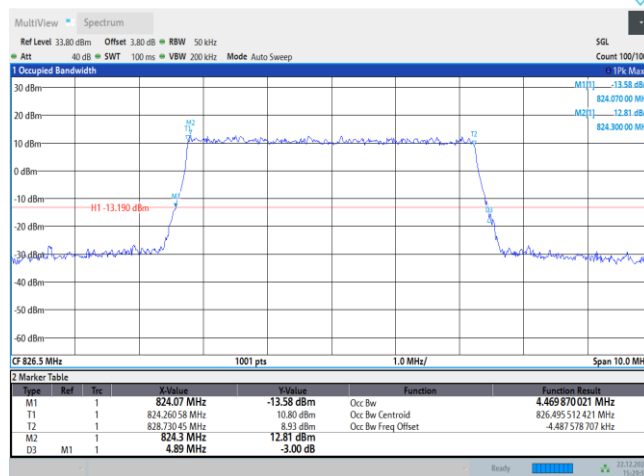
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Band5-5MHz-QPSK-20625-25RB#0



15:31:55 22.12.2022

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



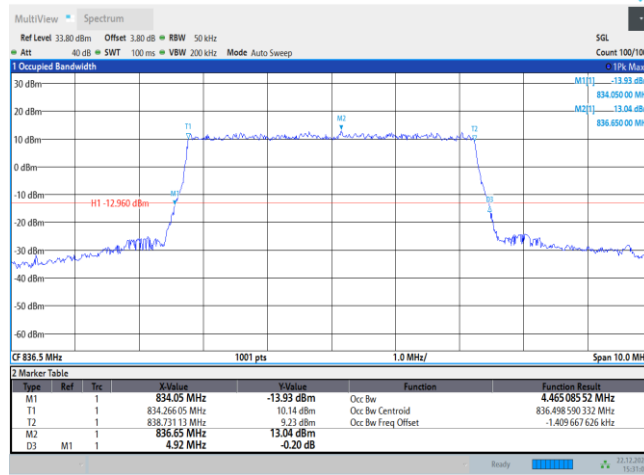
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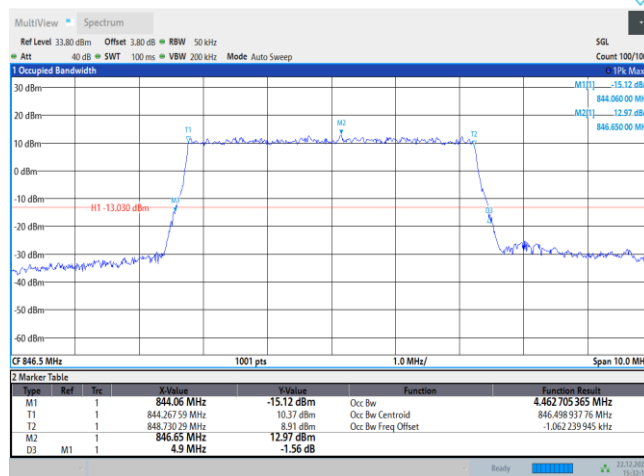
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15:31:08 22.12.2022

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



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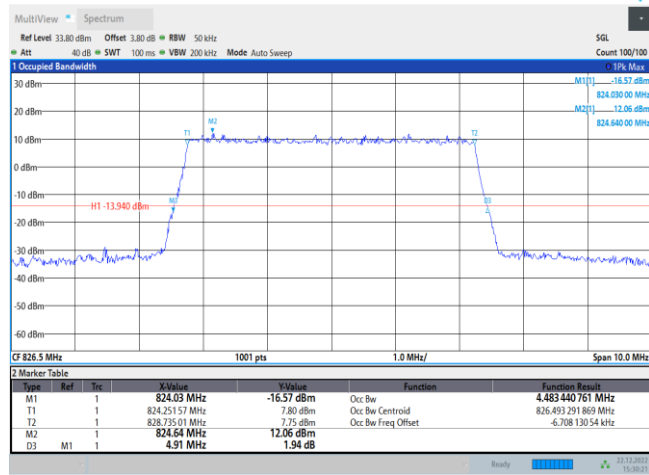


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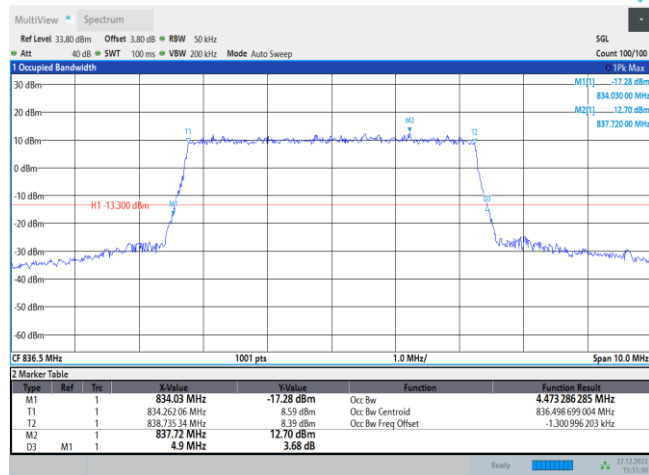
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Band5-5MHz-64QAM-20425-25RB#0



15:30:21 22.12.2022

Band5-5MHz-64QAM-20525-25RB#0



15:31:31 22.12.2022

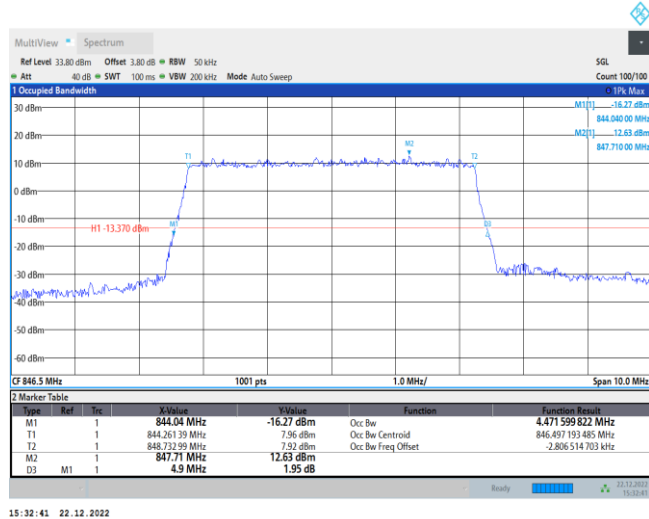


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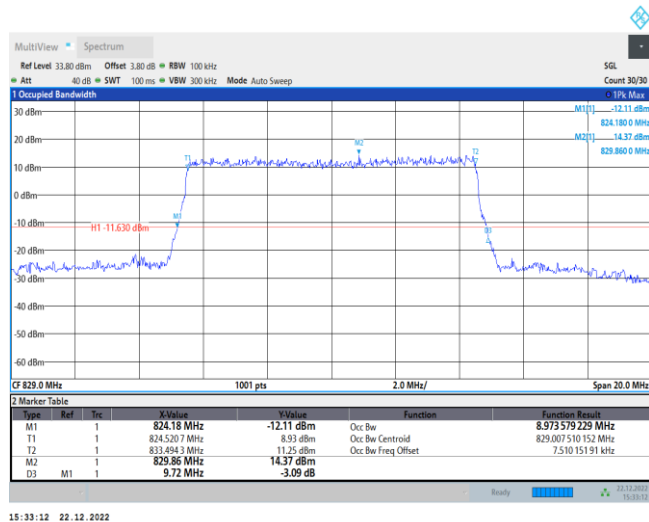
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Band5-10MHz-QPSK-20450-50RB#0



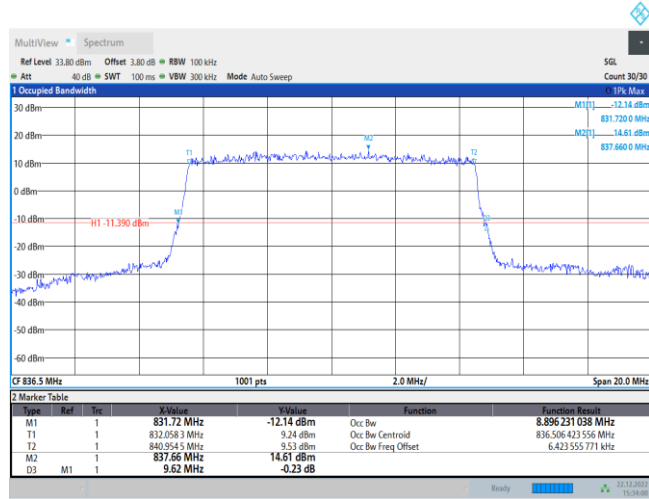
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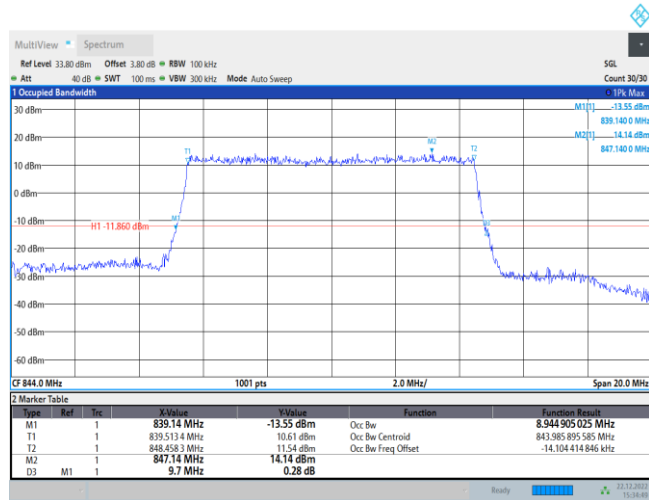
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Band5-10MHz-QPSK-20525-50RB#0



15:34:01 22.12.2022

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



15:34:50 22.12.2022



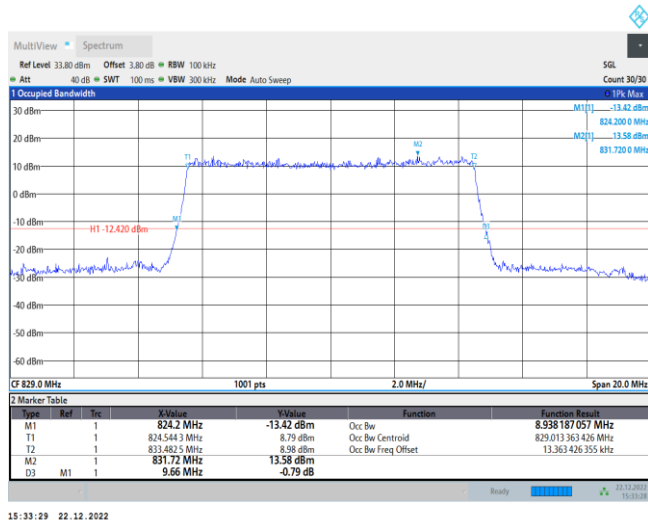
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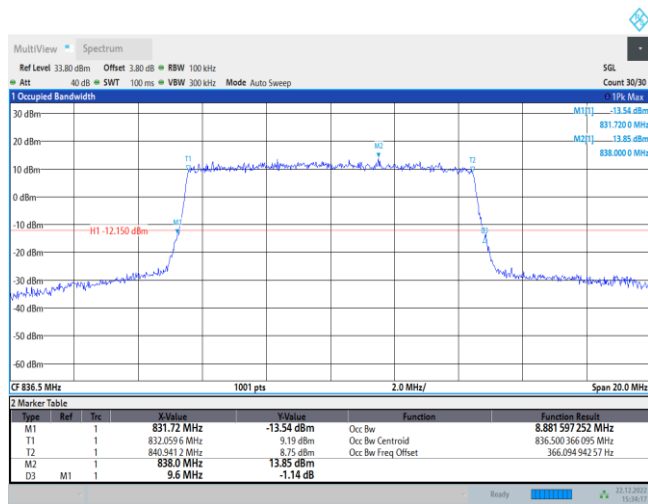


Band5-10MHz-16QAM-20450-50RB#0



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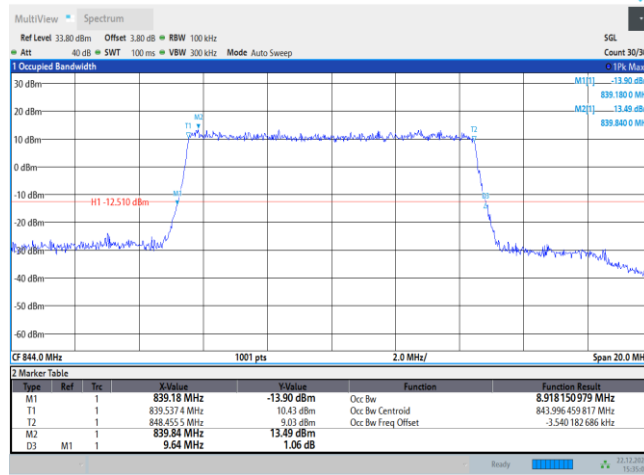
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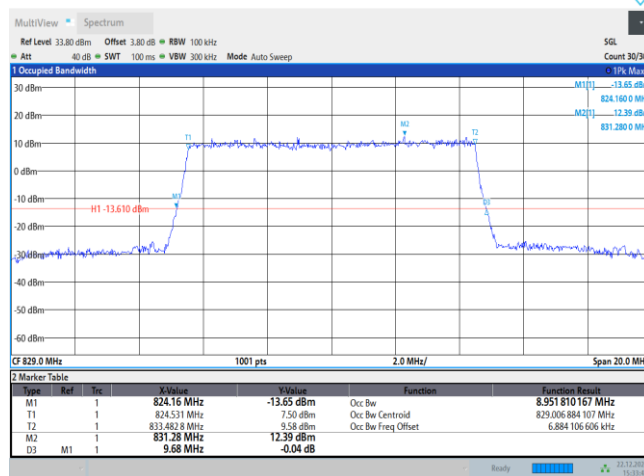
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Band5-10MHz-16QAM-20600-50RB#0



15:35:06 22.12.2022

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



15:33:45 22.12.2022



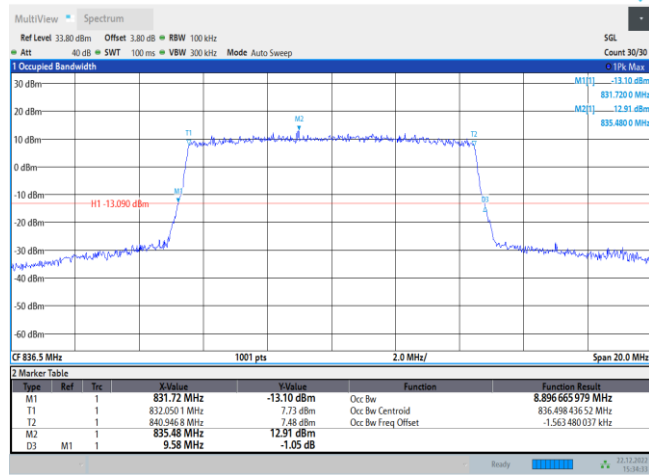
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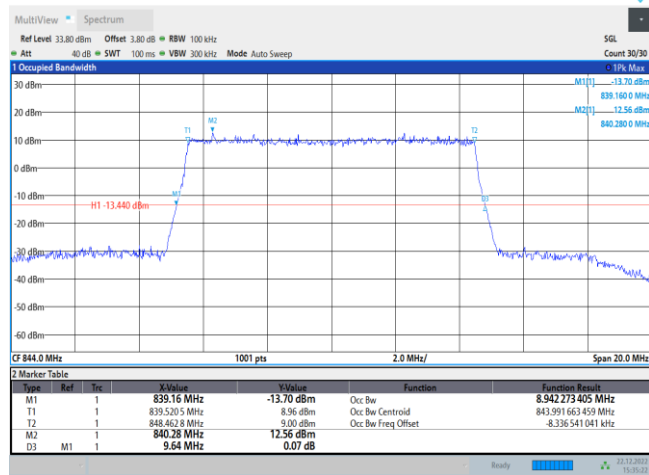
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Band5-10MHz-64QAM-20525-50RB#0



15:34:34 22.12.2022

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



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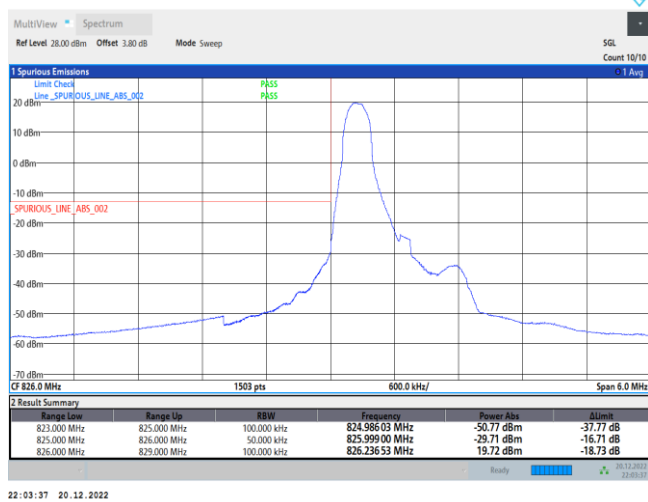
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## Band Edge

## Test Graphs

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



22:03:37 20.12.2022

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



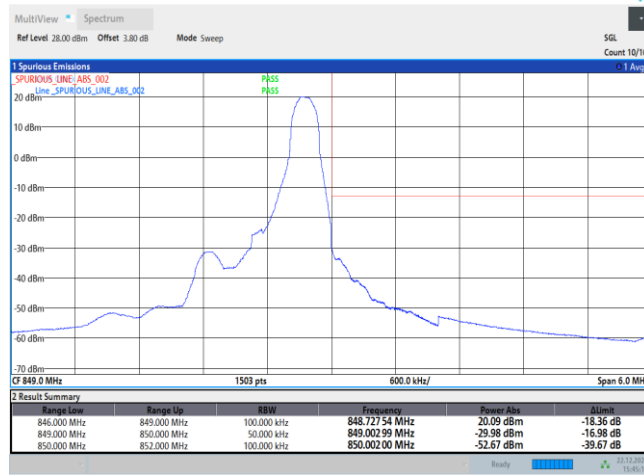
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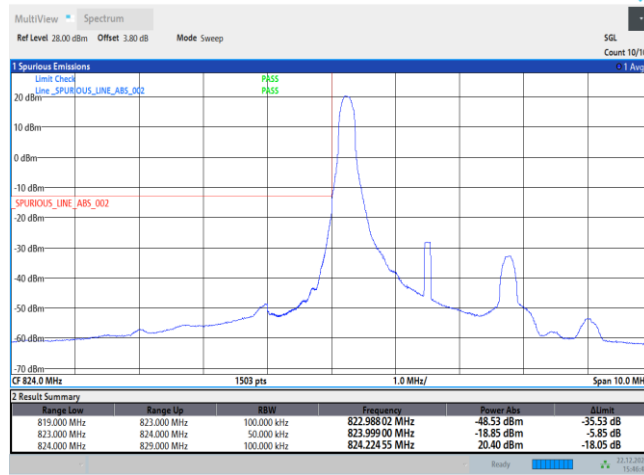
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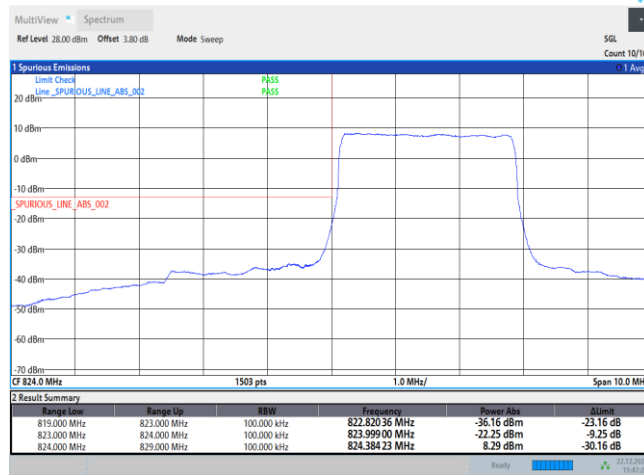
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Band5-3MHz-QPSK-20415-1RB#0



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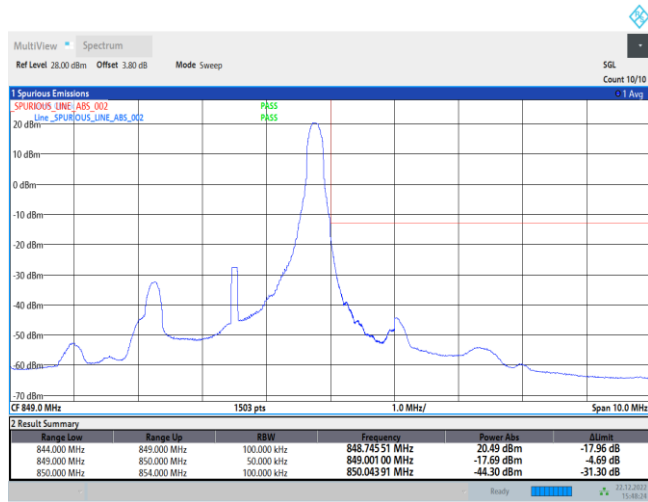
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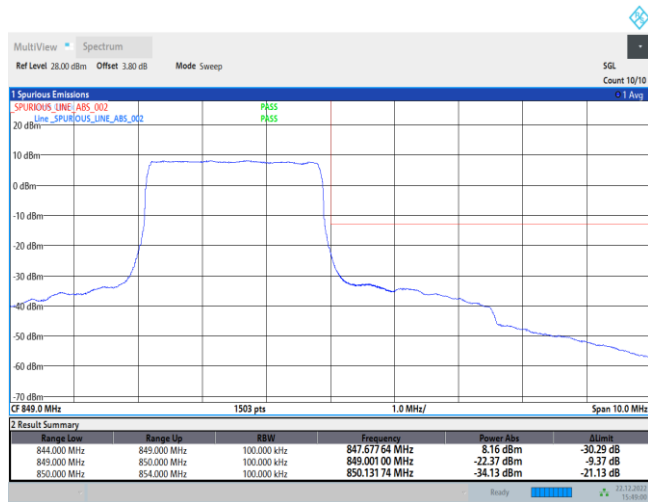
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Band5-3MHz-QPSK-20635-1RB#14



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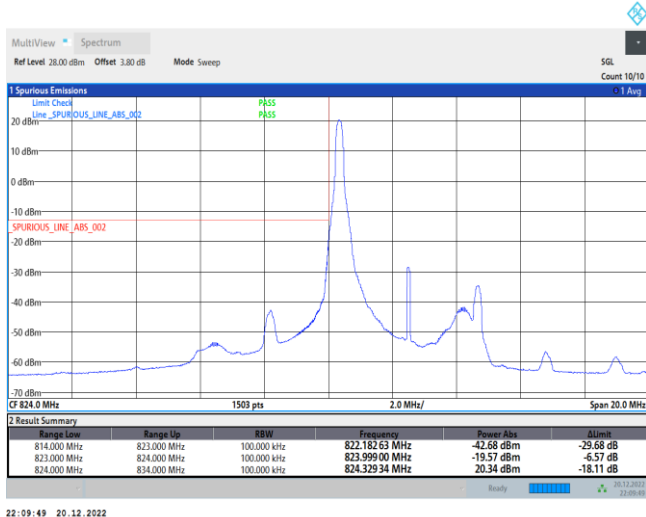


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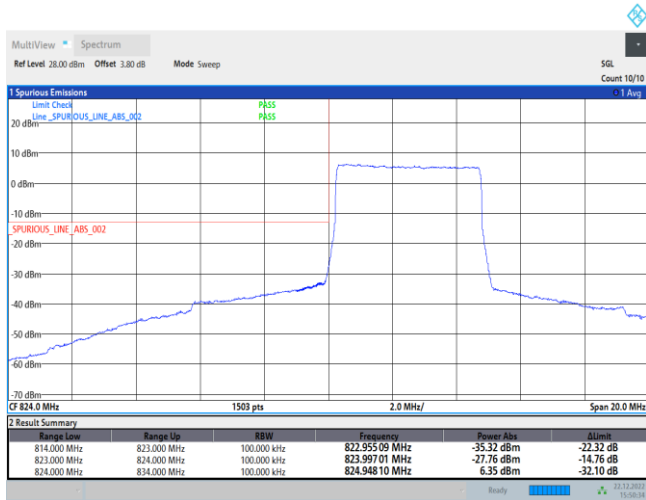
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15:50:35 22.12.2022

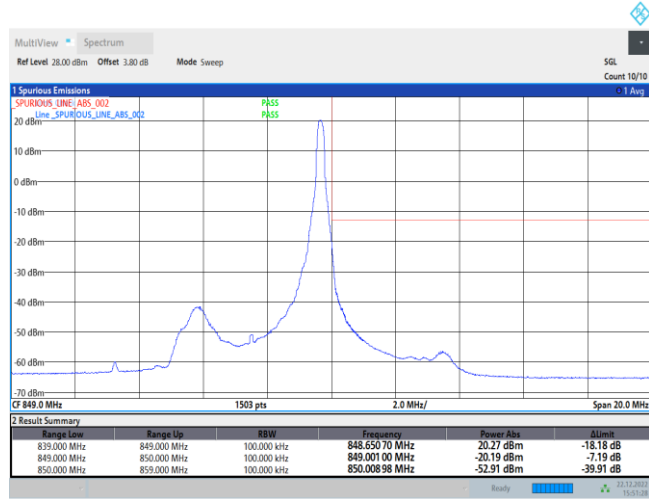


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Band5-5MHz-QPSK-20625-1RB#24



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



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