



Report No.: SEWM2305000159RG01

Rev.: 01

Page: 1 of 41

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	23.23	23.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.53	23.59	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.56	23.62	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.44	22.5	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.34	23.4	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.34	23.4	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.32	23.38	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.4	22.46	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.31	23.37	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.22	23.28	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.98	23.04	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.42	22.48	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.62	22.68	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.81	22.87	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.65	22.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.8	21.86	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.59	22.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.73	22.79	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.73	22.79	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.57	21.63	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.72	22.78	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.68	22.74	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.46	22.52	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.46	21.52	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.2	23.26	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.72	23.78	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.74	23.8	38.45	PASS



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Report No.: SEWM2305000159RG01

Rev.: 01

Page: 3 of 41

Band5	3MHz	QPSK	20415	15RB#0	22.68	22.74	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.25	23.31	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.4	23.46	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.25	23.31	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.4	22.46	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.43	23.49	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.45	23.51	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.97	23.03	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.46	22.52	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.6	22.66	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.87	22.93	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.07	23.13	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.74	21.8	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.66	22.72	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.71	22.77	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.56	22.62	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.5	21.56	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.76	22.82	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.82	22.88	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.47	22.53	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.55	21.61	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.59	23.65	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.87	23.93	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.99	24.05	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.9	22.96	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.51	23.57	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.37	23.43	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.5	23.56	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.51	22.57	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.88	23.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.59	23.65	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.24	23.3	38.45	PASS



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Report No.: SEWM2305000159RG01

Rev.: 01

Page: 4 of 41

Band5	5MHz	QPSK	20625	25RB#0	22.77	22.83	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23	23.06	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.28	23.34	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.31	23.37	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.98	22.04	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.92	22.98	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.65	22.71	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.89	22.95	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.59	21.65	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.22	23.28	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.95	23.01	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.77	22.83	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.81	21.87	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.69	23.75	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.12	24.18	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.6	23.66	38.45	PASS
Band5	10MHz	QPSK	20450	27RB#0	22.96	23.02	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.54	23.6	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.43	23.49	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.65	23.71	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.56	22.62	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.65	23.71	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.79	23.85	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.36	23.42	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.8	22.86	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23	23.06	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.51	23.57	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.88	22.94	38.45	PASS
Band5	10MHz	16QAM	20450	27RB#0	23.32	23.38	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.94	23	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.75	22.81	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.99	23.05	38.45	PASS



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Report No.: SEWM2305000159RG01

Rev.: 01

Page: 5 of 41

Band5	10MHz	16QAM	20525	27RB#0	23.15	23.21	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.13	23.19	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.32	23.38	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.7	22.76	38.45	PASS
Band5	10MHz	16QAM	20600	27RB#0	23.12	23.18	38.45	PASS



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Rev.: 01

Page: 6 of 41

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.52	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.80	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.60	13	PASS



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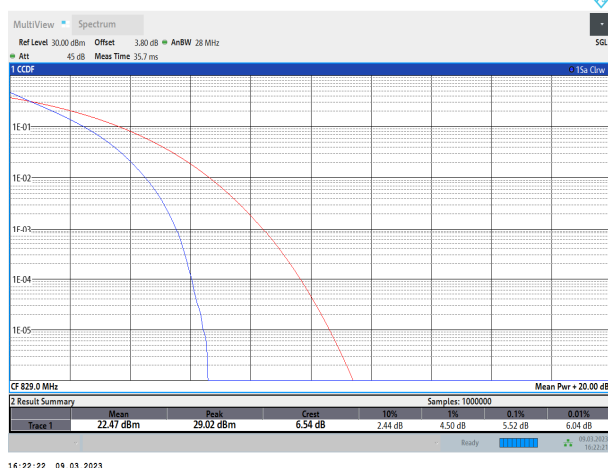
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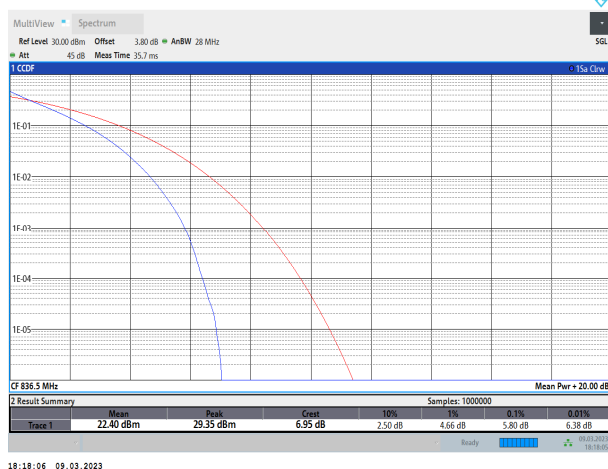
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Test Graphs

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



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



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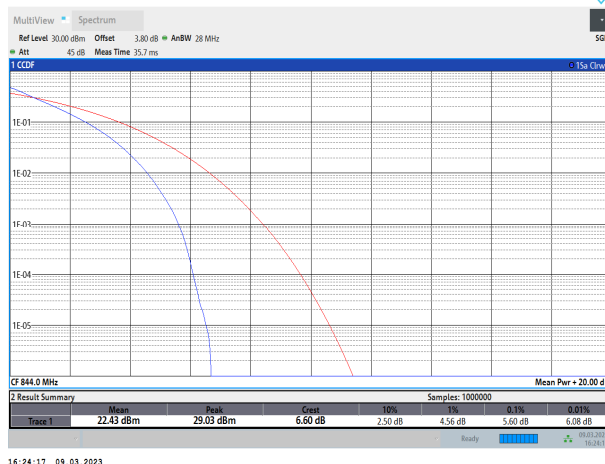
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Report No.: SEWM2305000159RG01

Rev.: 01

Page: 8 of 41

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



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Report No.: SEWM2305000159RG01

Rev.: 01

Page: 9 of 41

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	5MHz	QPSK	20525	25RB#0	PASS	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS	PASS



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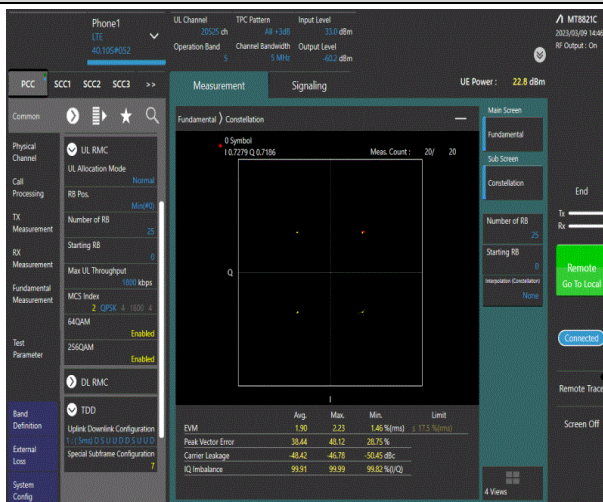
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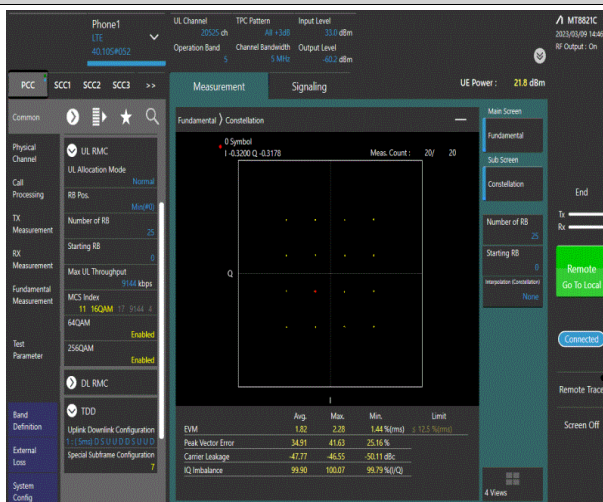
Page: 10 of 41

Test Graphs

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



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



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	1.088	1.29	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.29	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.29	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.096	1.30	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.095	1.30	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	3.02	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.689	3.00	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.693	3.00	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.691	3.03	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.689	3.00	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.687	3.00	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.47	4.94	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.465	4.93	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.91	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.468	4.98	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.468	4.99	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.46	4.96	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.936	9.86	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.945	9.98	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.927	9.88	PASS
Band5	10MHz	16QAM	20450	27RB#0	4.878	5.88	PASS
Band5	10MHz	16QAM	20525	27RB#0	4.887	5.96	PASS
Band5	10MHz	16QAM	20600	27RB#0	4.884	5.88	PASS



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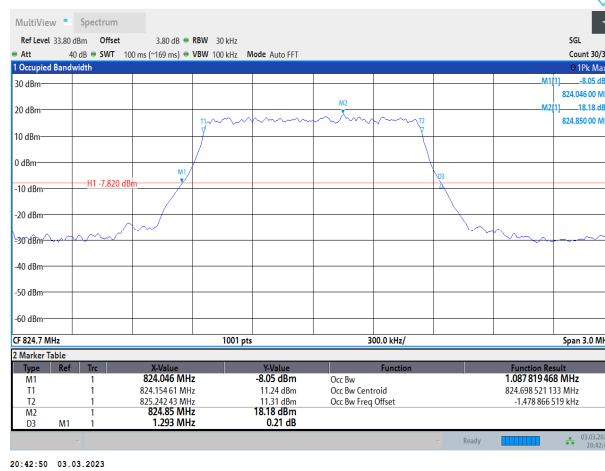
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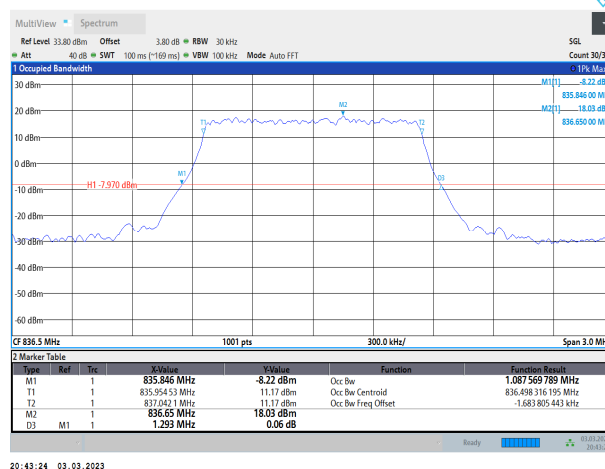
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Test Graphs

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



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



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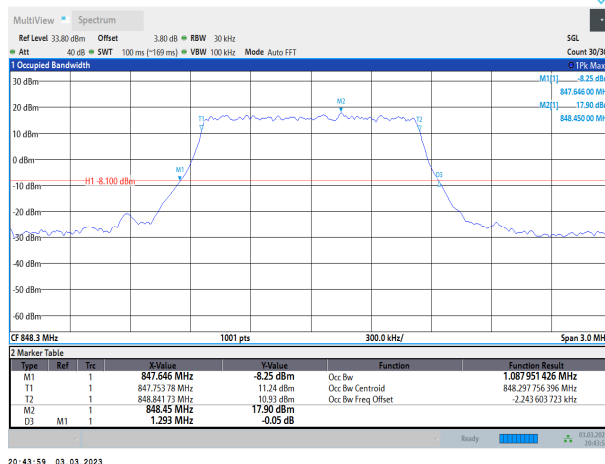
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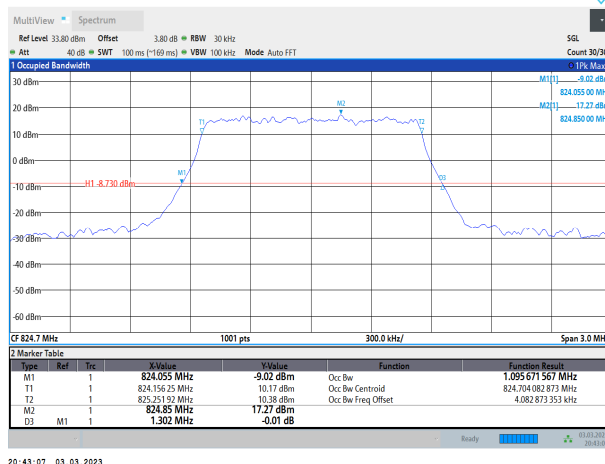
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Page: 13 of 41

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



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

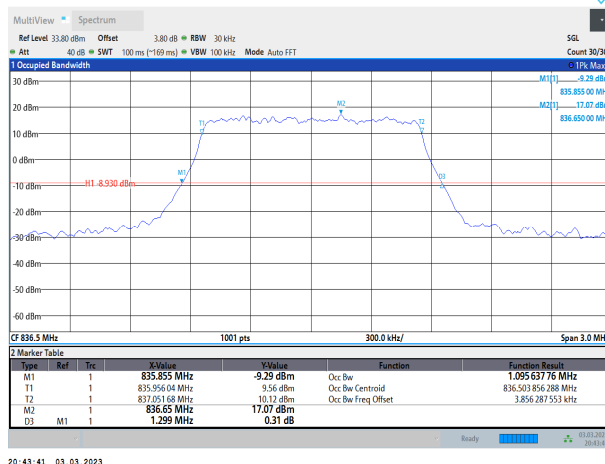


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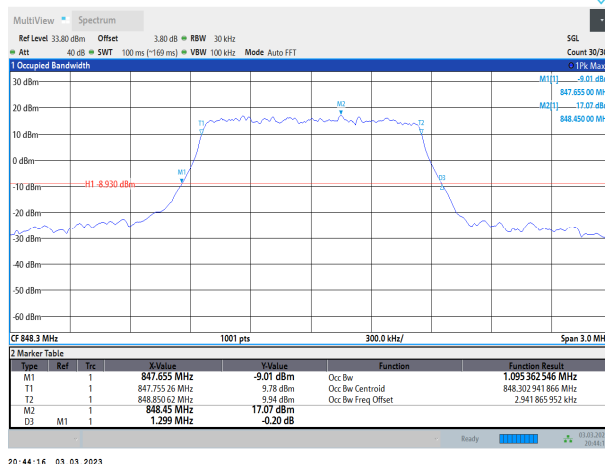
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Page: 14 of 41

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



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



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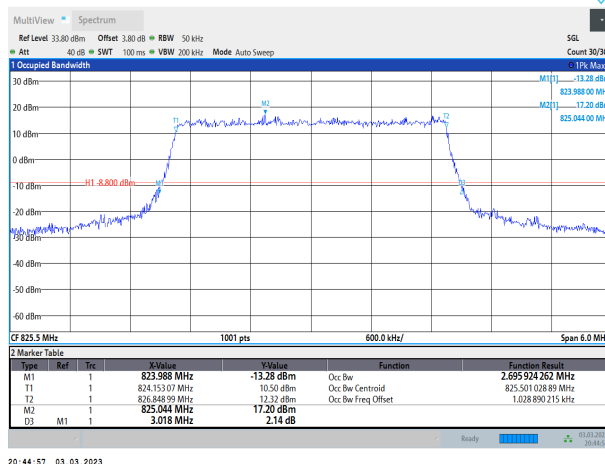
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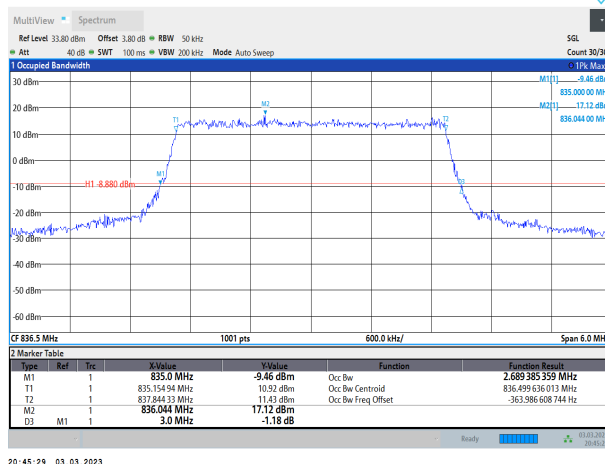
Page: 15 of 41

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



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



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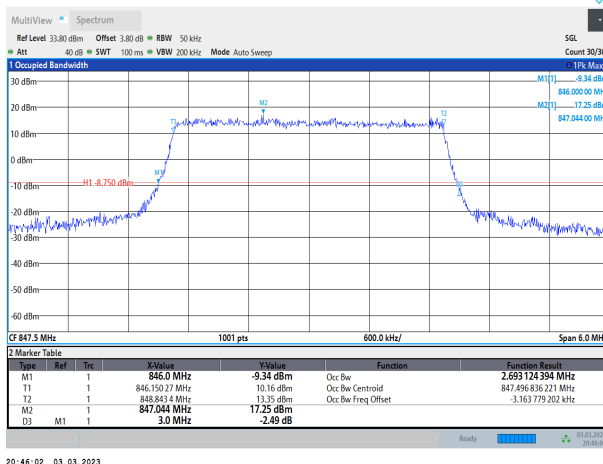
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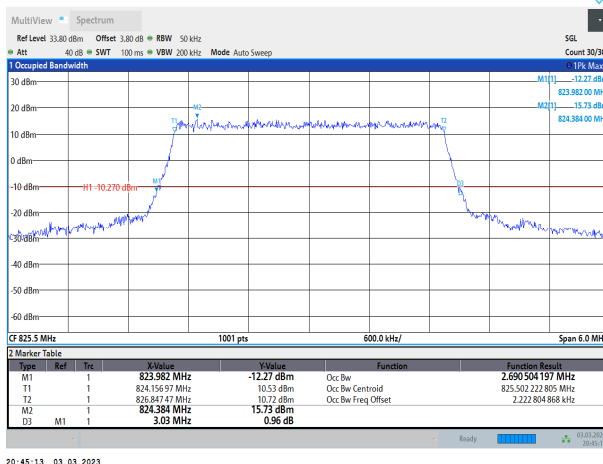
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Page: 16 of 41

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



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



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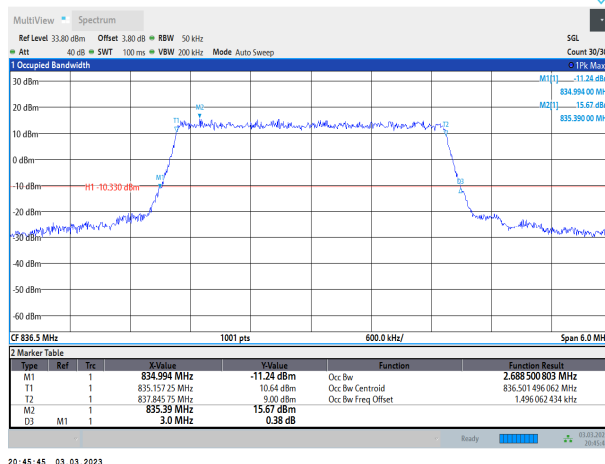
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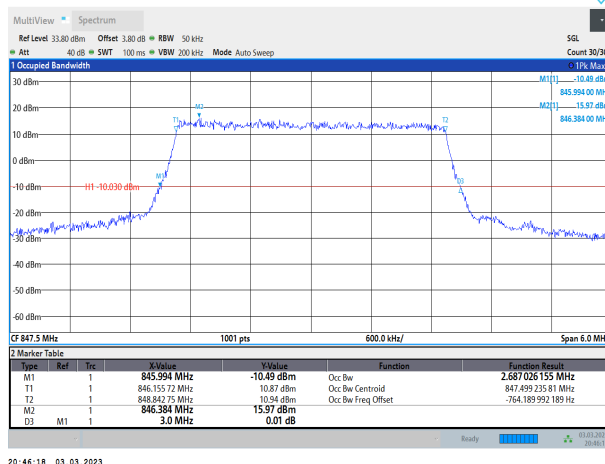
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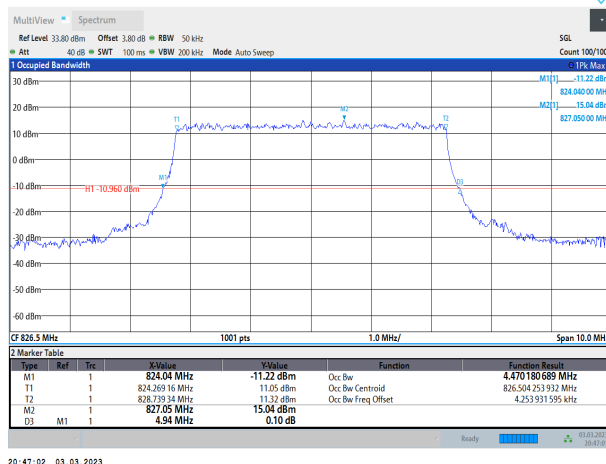
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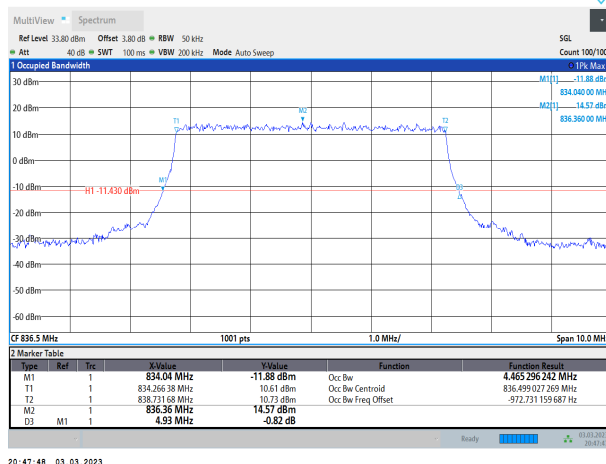
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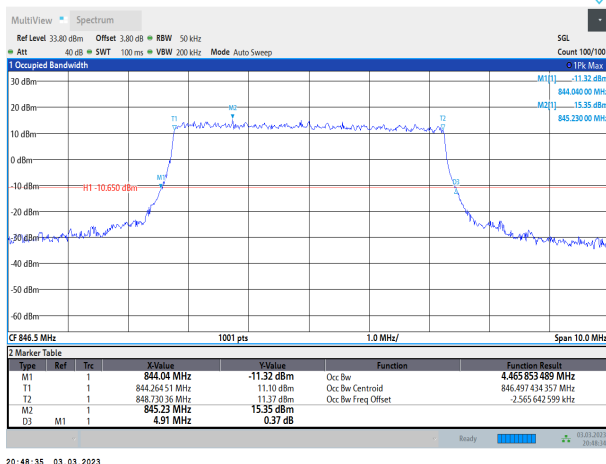
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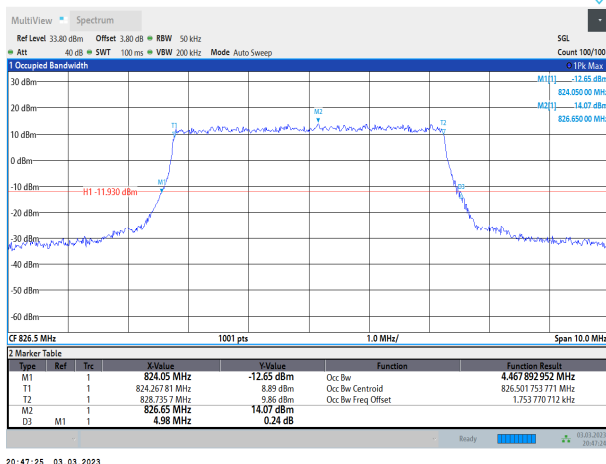
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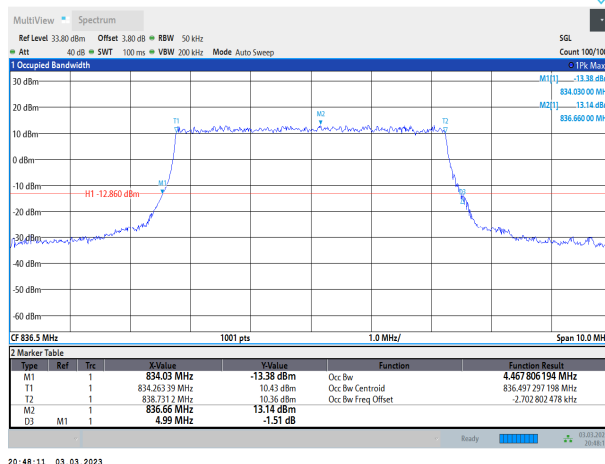
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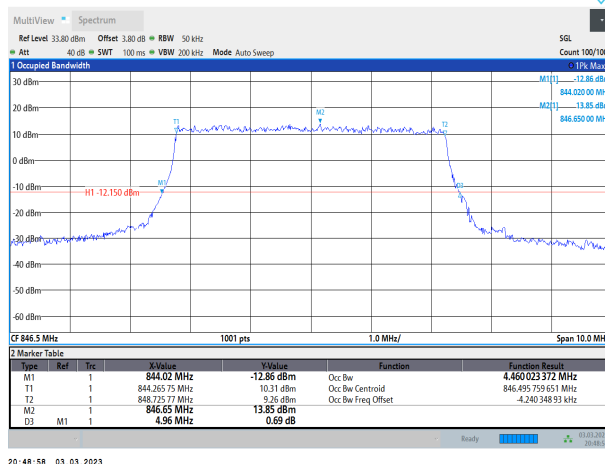
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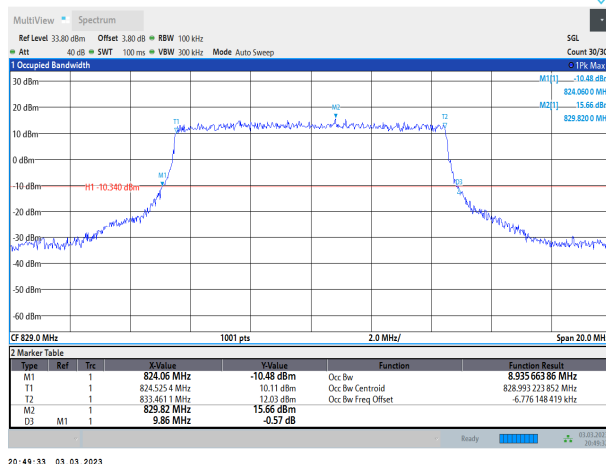
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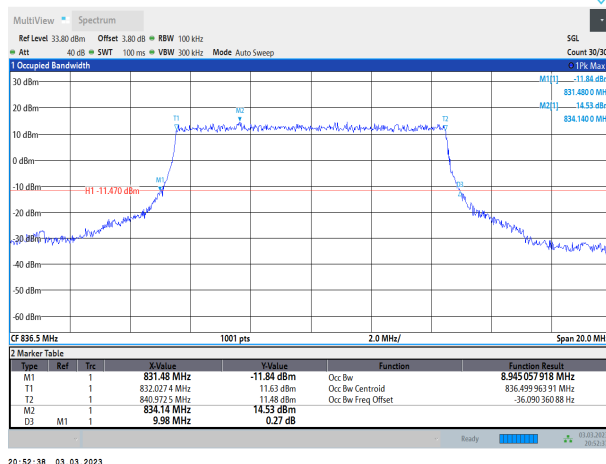
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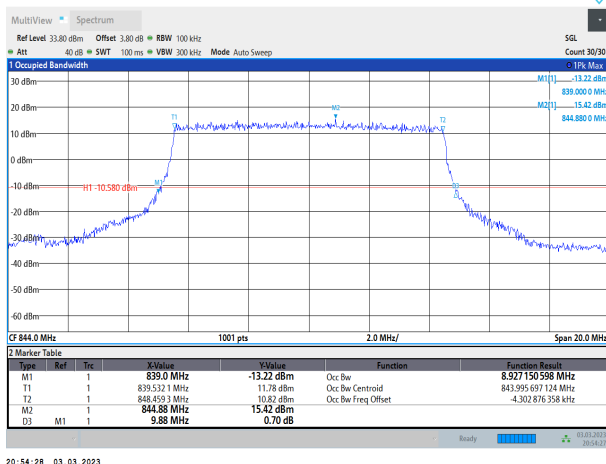


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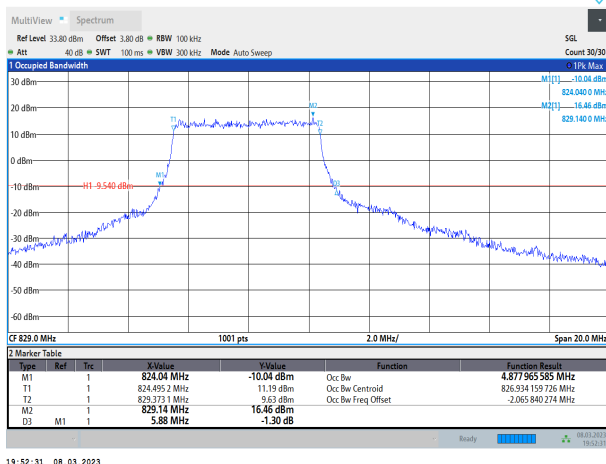
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Page: 22 of 41

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



Band5-10MHz-16QAM-20450-27RB#0



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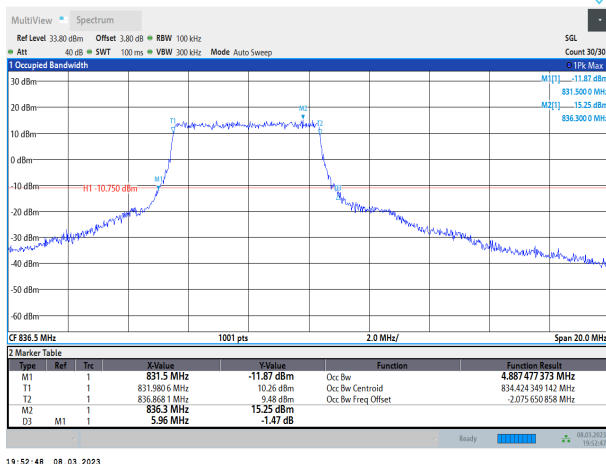
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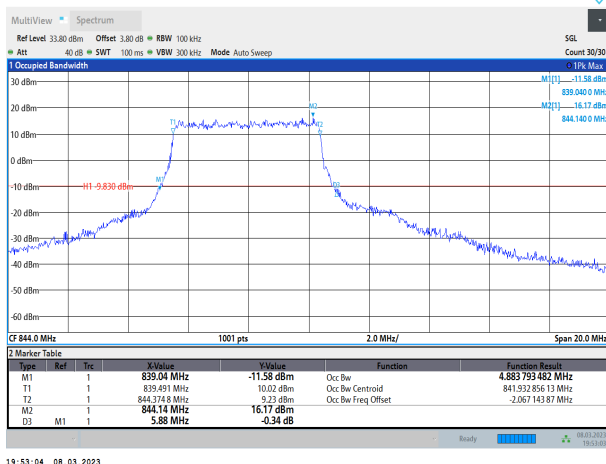
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Page: 23 of 41

Band5-10MHz-16QAM-20525-27RB#0



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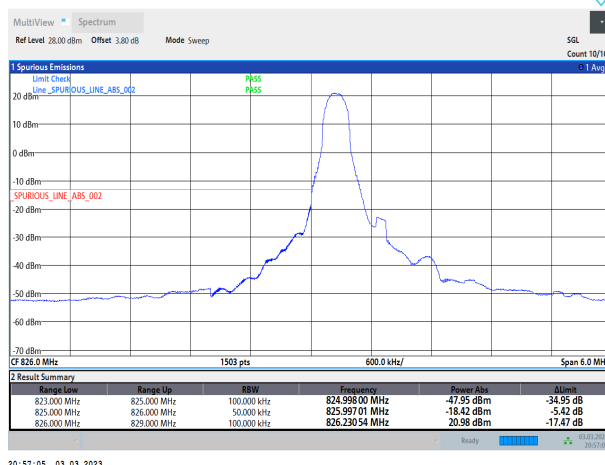
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Page: 24 of 41

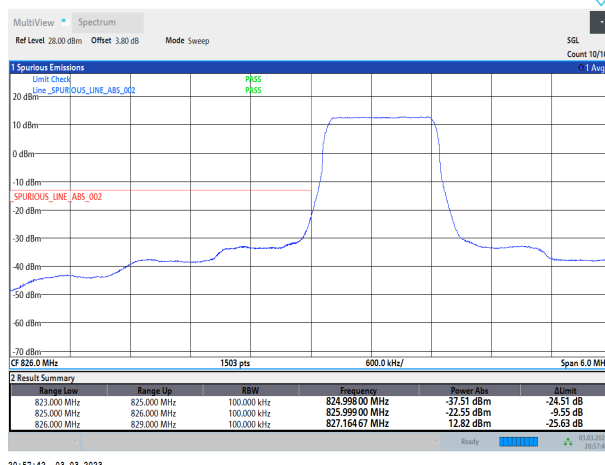
Band Edge

Test Graphs

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



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



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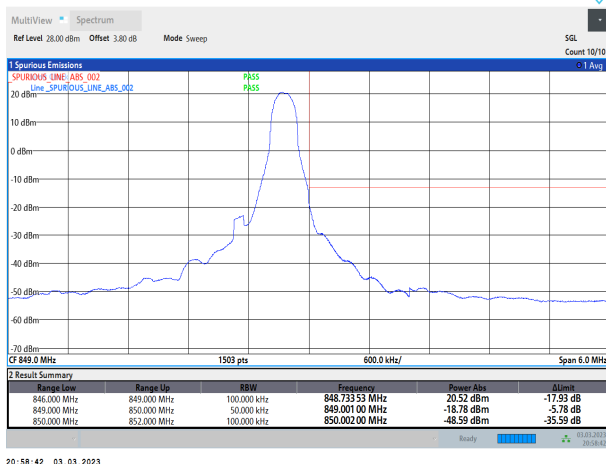
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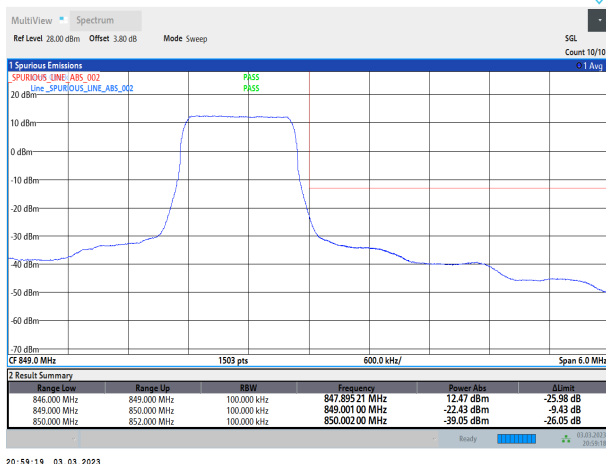
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Band5-1.4MHz-QPSK-20643-1RB#5



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



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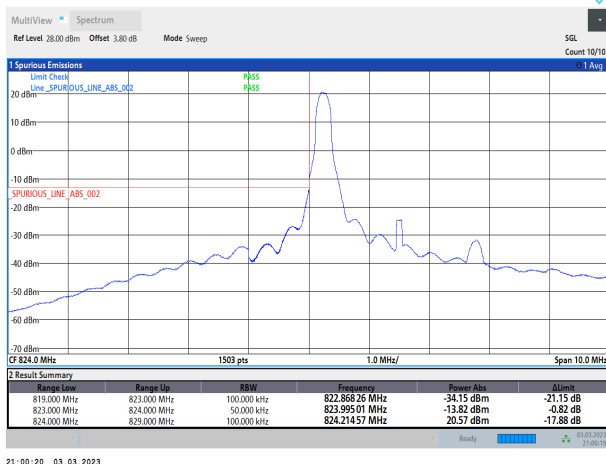
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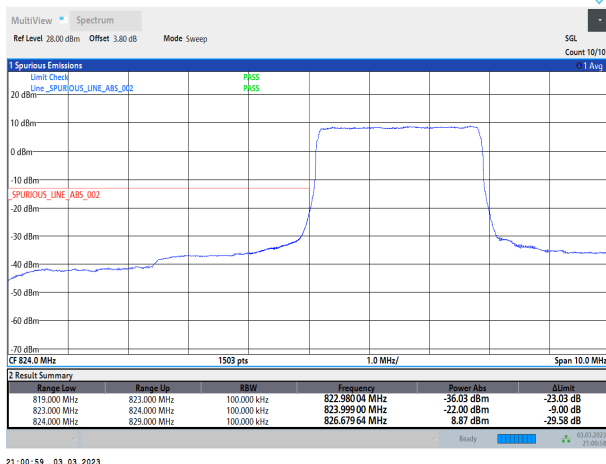
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Band5-3MHz-QPSK-20415-1RB#0



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



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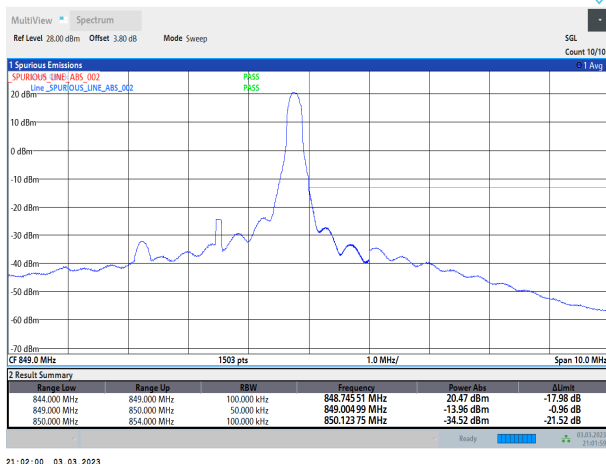
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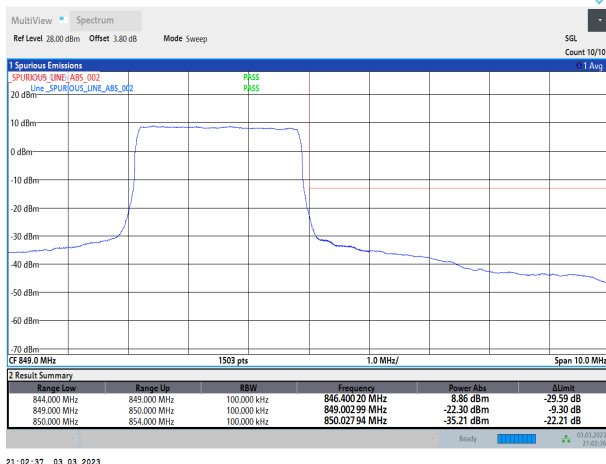
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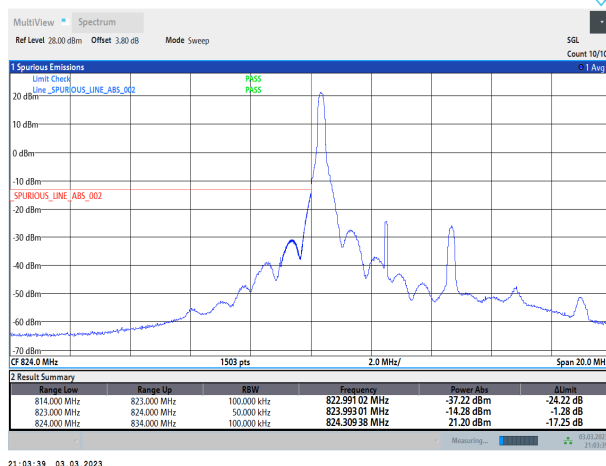
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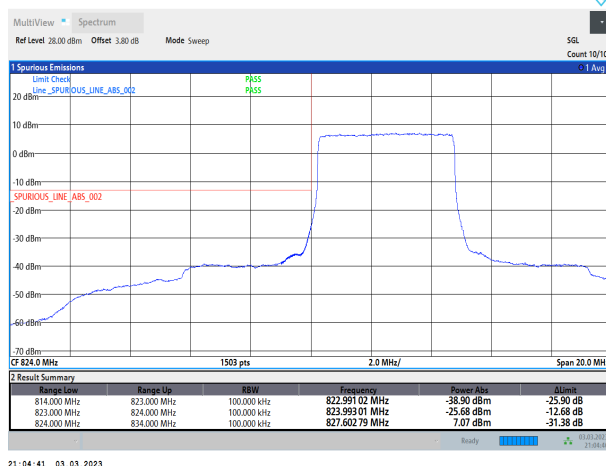
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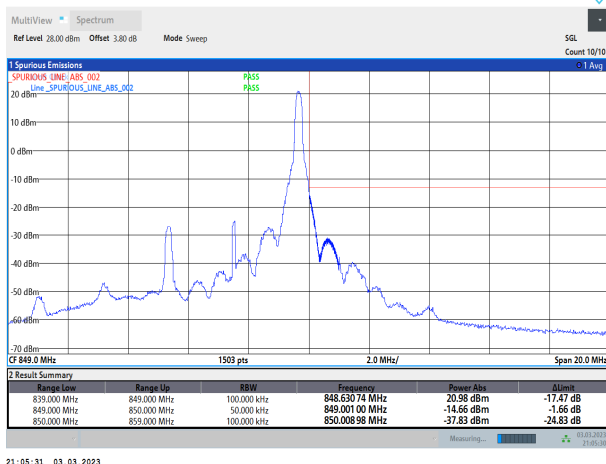
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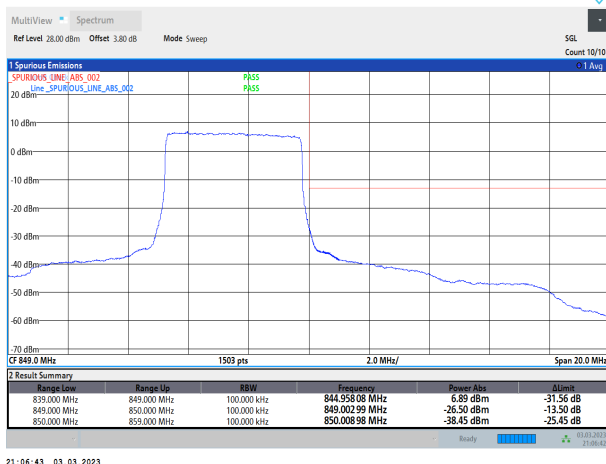
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Band5-5MHz-QPSK-20625-25RB#0



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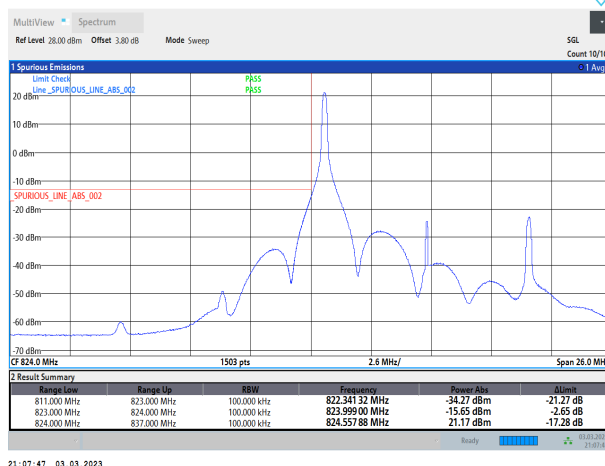
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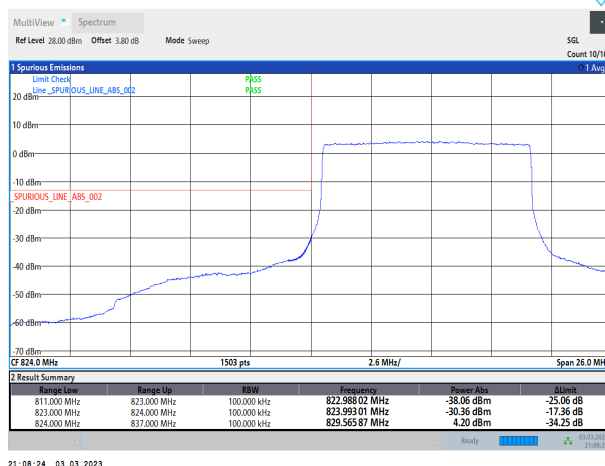
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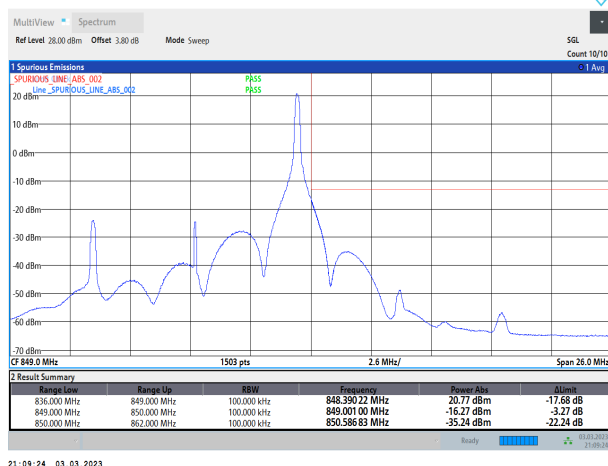
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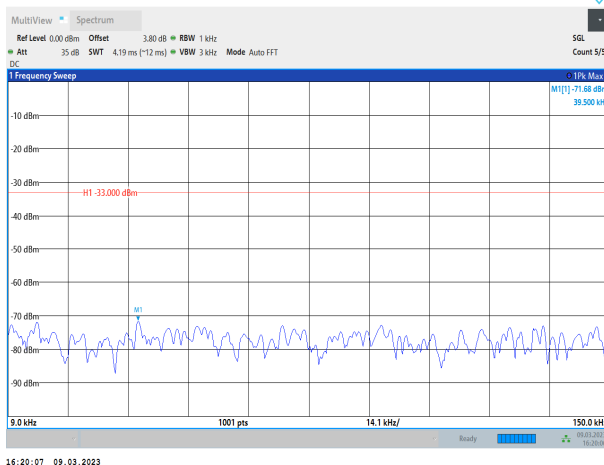
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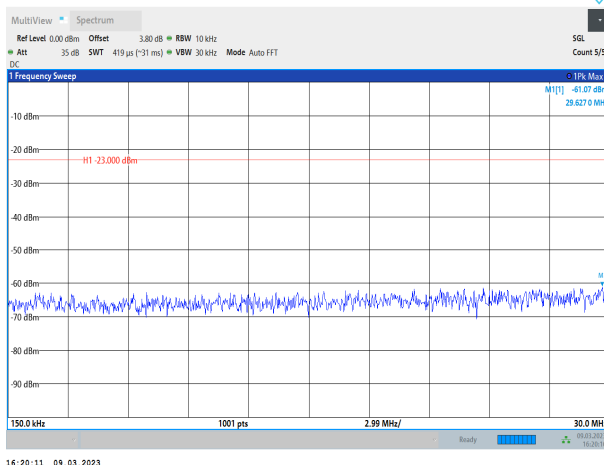
Conducted Spurious Emission

Test Graphs

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



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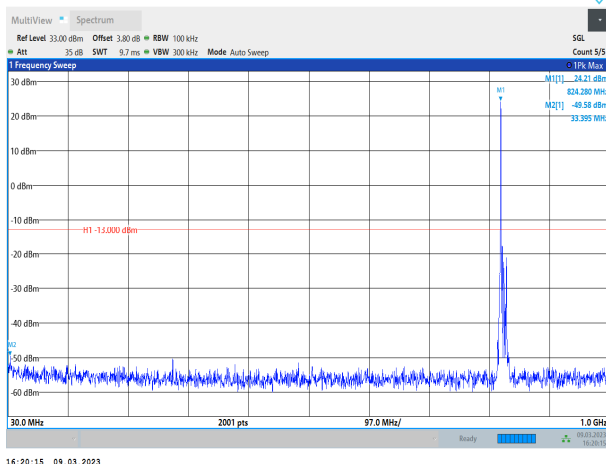
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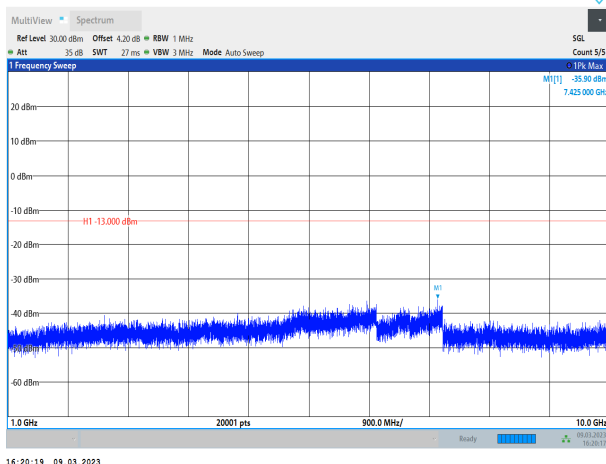
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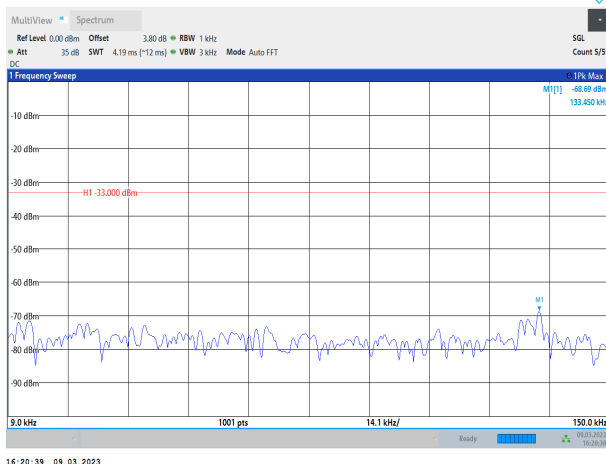
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Report No.: SEWM2305000159RG01

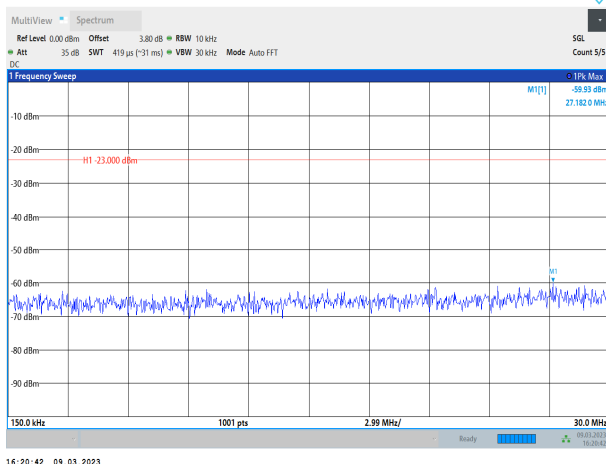
Rev.: 01

Page: 34 of 41

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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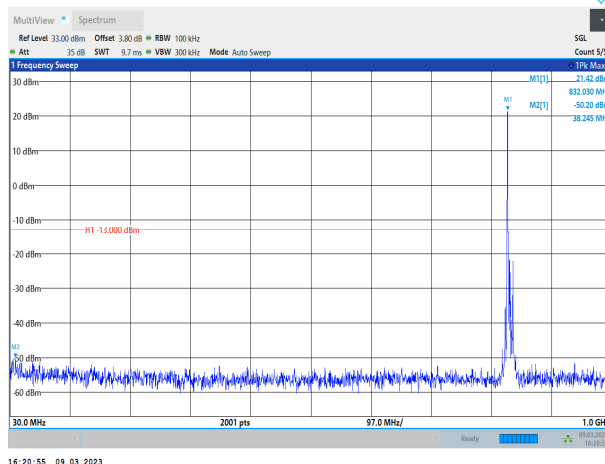
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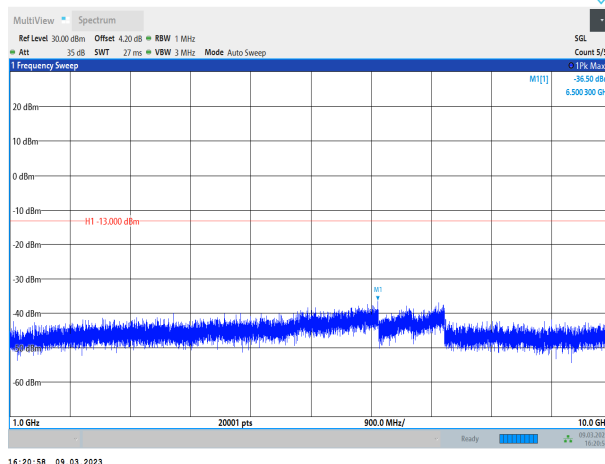
Rev.: 01

Page: 35 of 41

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



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



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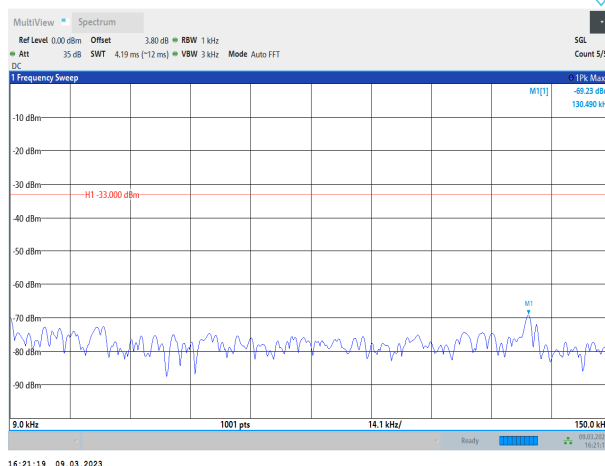
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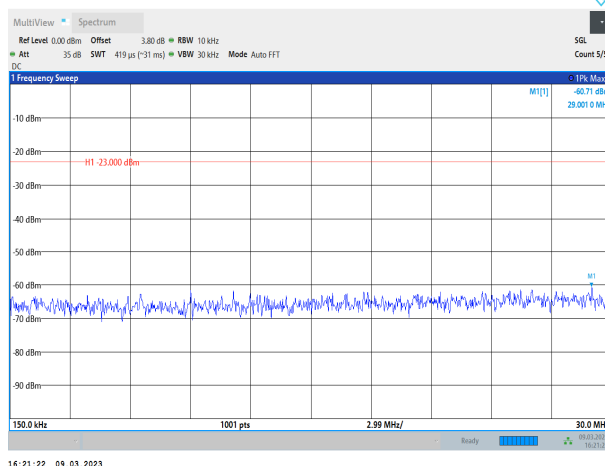
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Page: 36 of 41

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



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



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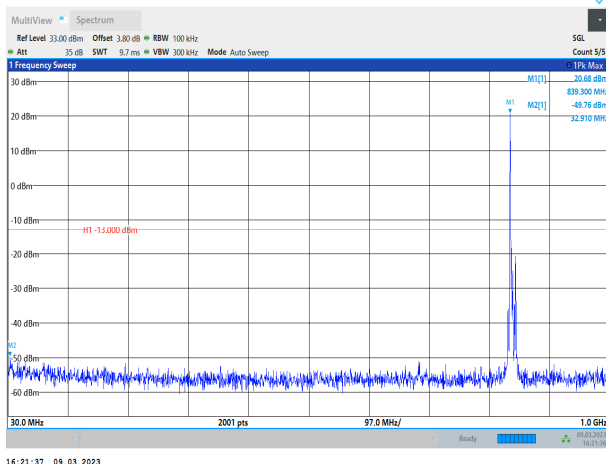
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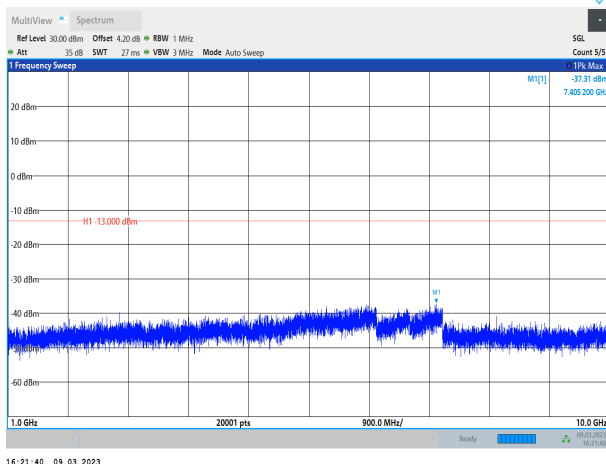
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Page: 37 of 41

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



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



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Report No.: SEWM2305000159RG01

Rev.: 01

Page: 38 of 41

Field Strength of Spurious Radiation

Test Band = LTE Band 5_QPSK_10MHz_TM1
Test Channel = Low Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	53.36	-48.38	25.58	-64.71	-13.00	51.71	162	13	Horizontal
2	2473.77	49.79	-46.96	27.85	-64.58	-13.00	51.58	241	154	Horizontal
3	3298.36	45.94	-46.11	29.48	-65.95	-13.00	52.95	168	139	Horizontal
4	4122.95	41.30	-45.34	30.80	-68.50	-13.00	55.50	209	184	Horizontal
5	4947.54	40.38	-45.08	32.48	-67.49	-13.00	54.49	238	301	Horizontal
6	5772.13	38.03	-43.52	33.47	-67.28	-13.00	54.28	214	1	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	1649.18	48.48	-48.38	25.58	-69.59	-13.00	56.59	147	99	Vertical
2	2473.77	63.80	-46.96	27.85	-50.57	-13.00	37.57	216	277	Vertical
3	3298.36	45.18	-46.11	29.48	-66.71	-13.00	53.71	225	247	Vertical
4	4122.95	43.17	-45.34	30.80	-66.63	-13.00	53.63	248	233	Vertical
5	4947.54	40.63	-45.08	32.48	-67.24	-13.00	54.24	159	360	Vertical
6	5772.13	38.77	-43.52	33.47	-66.54	-13.00	53.54	186	337	Vertical



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Report No.: SEWM2305000159RG01

Rev.: 01

Page: 39 of 41

Test Band = LTE Band 5_QPSK_10MHz_TM1
Test Channel = Mid Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	57.23	-48.34	25.57	-60.80	-13.00	47.80	185	317	Horizontal
2	2496.27	45.12	-46.77	27.89	-69.02	-13.00	56.02	213	156	Horizontal
3	3328.36	44.20	-46.16	29.47	-67.75	-13.00	54.75	221	54	Horizontal
4	4160.45	42.10	-45.23	30.86	-67.53	-13.00	54.53	245	69	Horizontal
5	4992.54	39.63	-45.02	32.58	-68.07	-13.00	55.07	156	230	Horizontal
6	5824.63	39.83	-43.43	33.64	-65.22	-13.00	52.22	205	358	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	1664.18	52.87	-48.34	25.57	-65.16	-13.00	52.16	234	115	Vertical
2	2496.27	55.76	-46.77	27.89	-58.38	-13.00	45.38	154	205	Vertical
3	3328.36	43.61	-46.16	29.47	-68.34	-13.00	55.34	176	248	Vertical
4	4160.45	42.04	-45.23	30.86	-67.59	-13.00	54.59	159	337	Vertical
5	4992.54	40.47	-45.02	32.58	-67.23	-13.00	54.23	215	360	Vertical
6	5824.63	39.54	-43.43	33.64	-65.51	-13.00	52.51	238	308	Vertical



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Rev.: 01

Page: 40 of 41

Test Band = LTE Band 5_QPSK_10MHz_TM1
Test Channel = High Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	61.29	-48.30	25.56	-56.71	-13.00	43.71	142	230	Horizontal
2	2518.77	46.06	-46.84	27.96	-68.07	-13.00	55.07	231	38	Horizontal
3	3358.36	45.40	-46.21	29.46	-66.61	-13.00	53.61	225	100	Horizontal
4	4197.95	42.68	-45.12	30.92	-66.78	-13.00	53.78	168	216	Horizontal
5	5037.54	39.92	-44.85	32.60	-67.59	-13.00	54.59	174	230	Horizontal
6	5887.13	39.30	-43.24	33.84	-65.36	-13.00	52.36	215	0	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	1679.18	59.58	-48.30	25.56	-58.42	-13.00	45.42	209	325	Vertical
2	2518.77	60.17	-46.84	27.96	-53.96	-13.00	40.96	149	146	Vertical
3	3358.36	44.61	-46.21	29.46	-67.40	-13.00	54.40	285	279	Vertical
4	4197.95	43.25	-45.12	30.92	-66.21	-13.00	53.21	165	358	Vertical
5	5037.54	40.05	-44.85	32.60	-67.46	-13.00	54.46	220	101	Vertical
6	5887.13	39.18	-43.24	33.84	-65.48	-13.00	52.48	178	3	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Rev.: 01

Page: 41 of 41

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	-5.40	-0.006455	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-3.10	-0.003706	±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	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-3.80	-0.004543	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-4.00	-0.004782	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-3.80	-0.004543	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.50	0.000598	±2.5	PASS

---End of Attachment---



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