

Report No.: SEWM2308000314RG01

Rev.: 01

Page: 1 of 31

Appendix B.9

LTE Band 26(814-824)



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 2 of 31

Transmitter Conducted Power Output

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	24.27	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	24.28	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	24.25	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	23.35	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	24.59	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	24.33	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	24.31	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	23.38	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	24.6	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	24.37	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	24.36	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	23.39	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	23.41	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	23.52	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.38	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	22.57	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	23.43	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.54	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	23.4	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	22.58	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	23.42	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	23.51	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	23.47	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	22.59	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	22.71	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#2	22.76	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	22.74	50.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 3 of 31

Band26	1.4MHz	64QAM	26697	6RB#0	21.58	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#0	22.72	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	22.73	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	22.62	50.00	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	21.62	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	22.74	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	22.74	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	22.72	50.00	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	21.57	50.00	PASS
Band26	1.4MHz	256QAM	26697	1RB#0	19.67	50.00	PASS
Band26	1.4MHz	256QAM	26697	1RB#2	19.6	50.00	PASS
Band26	1.4MHz	256QAM	26697	1RB#5	19.55	50.00	PASS
Band26	1.4MHz	256QAM	26697	6RB#0	19.48	50.00	PASS
Band26	1.4MHz	256QAM	26740	1RB#0	19.65	50.00	PASS
Band26	1.4MHz	256QAM	26740	1RB#2	19.66	50.00	PASS
Band26	1.4MHz	256QAM	26740	1RB#5	19.61	50.00	PASS
Band26	1.4MHz	256QAM	26740	6RB#0	19.54	50.00	PASS
Band26	1.4MHz	256QAM	26783	1RB#0	19.71	50.00	PASS
Band26	1.4MHz	256QAM	26783	1RB#2	19.67	50.00	PASS
Band26	1.4MHz	256QAM	26783	1RB#5	19.66	50.00	PASS
Band26	1.4MHz	256QAM	26783	6RB#0	19.57	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	24.32	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	24.31	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	24.31	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	23.36	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	24.59	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	24.3	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	24.36	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	23.41	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	24.59	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	24.36	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	24.36	50.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 4 of 31

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Band26	3MHz	16QAM	26705	1RB#0	23.39	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	23.47	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	23.38	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	22.58	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.46	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	23.47	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	23.44	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	22.59	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	23.47	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	23.5	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	23.45	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	22.67	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#0	22.72	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#8	22.68	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#14	22.68	50.00	PASS
Band26	3MHz	64QAM	26705	15RB#0	21.59	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#0	22.74	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#8	22.77	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#14	22.66	50.00	PASS
Band26	3MHz	64QAM	26740	15RB#0	21.62	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#0	22.7	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#8	22.74	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#14	22.73	50.00	PASS
Band26	3MHz	64QAM	26775	15RB#0	21.66	50.00	PASS
Band26	3MHz	256QAM	26705	1RB#0	19.66	50.00	PASS
Band26	3MHz	256QAM	26705	1RB#8	19.69	50.00	PASS
Band26	3MHz	256QAM	26705	1RB#14	19.61	50.00	PASS
Band26	3MHz	256QAM	26705	15RB#0	19.55	50.00	PASS
Band26	3MHz	256QAM	26740	1RB#0	19.72	50.00	PASS
Band26	3MHz	256QAM	26740	1RB#8	19.6	50.00	PASS
Band26	3MHz	256QAM	26740	1RB#14	19.6	50.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 5 of 31

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Band26	3MHz	256QAM	26775	1RB#0	19.71	50.00	PASS
Band26	3MHz	256QAM	26775	1RB#8	19.64	50.00	PASS
Band26	3MHz	256QAM	26775	1RB#14	19.75	50.00	PASS
Band26	3MHz	256QAM	26775	15RB#0	19.64	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	24.1	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	24.22	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	24.03	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	23.34	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	24.47	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	24.26	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	24.17	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	23.37	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	24.44	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	24.35	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	24.25	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	23.33	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.46	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	23.44	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	23.47	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	22.61	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	23.48	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	23.48	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	23.5	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	22.63	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	23.46	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	23.5	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	23.5	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	22.65	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#0	22.75	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#12	22.76	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#24	22.72	50.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 6 of 31

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Band26	5MHz	64QAM	26740	1RB#0	22.7	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#12	22.76	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#24	22.78	50.00	PASS
Band26	5MHz	64QAM	26740	25RB#0	21.58	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#0	22.73	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#12	22.73	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#24	22.78	50.00	PASS
Band26	5MHz	64QAM	26765	25RB#0	21.61	50.00	PASS
Band26	5MHz	256QAM	26715	1RB#0	19.61	50.00	PASS
Band26	5MHz	256QAM	26715	1RB#12	19.65	50.00	PASS
Band26	5MHz	256QAM	26715	1RB#24	19.68	50.00	PASS
Band26	5MHz	256QAM	26715	25RB#0	19.6	50.00	PASS
Band26	5MHz	256QAM	26740	1RB#0	19.68	50.00	PASS
Band26	5MHz	256QAM	26740	1RB#12	19.68	50.00	PASS
Band26	5MHz	256QAM	26740	1RB#24	19.73	50.00	PASS
Band26	5MHz	256QAM	26740	25RB#0	19.59	50.00	PASS
Band26	5MHz	256QAM	26765	1RB#0	19.7	50.00	PASS
Band26	5MHz	256QAM	26765	1RB#12	19.73	50.00	PASS
Band26	5MHz	256QAM	26765	1RB#24	19.73	50.00	PASS
Band26	5MHz	256QAM	26765	25RB#0	19.59	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	24.27	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	24.32	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	24.38	50.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	23.44	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.47	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	23.51	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	23.53	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	22.6	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#0	22.75	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#24	22.72	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#49	22.79	50.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 7 of 31

Band26	10MHz	64QAM	26740	50RB#0	21.59	50.00	PASS
Band26	10MHz	256QAM	26740	1RB#0	19.73	50.00	PASS
Band26	10MHz	256QAM	26740	1RB#24	19.66	50.00	PASS
Band26	10MHz	256QAM	26740	1RB#49	19.72	50.00	PASS
Band26	10MHz	256QAM	26740	50RB#0	19.62	50.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 8 of 31

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	4.88	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.56	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.02	13	PASS
Band26	10MHz	256QAM	26740	50RB#0	6.36	13	PASS



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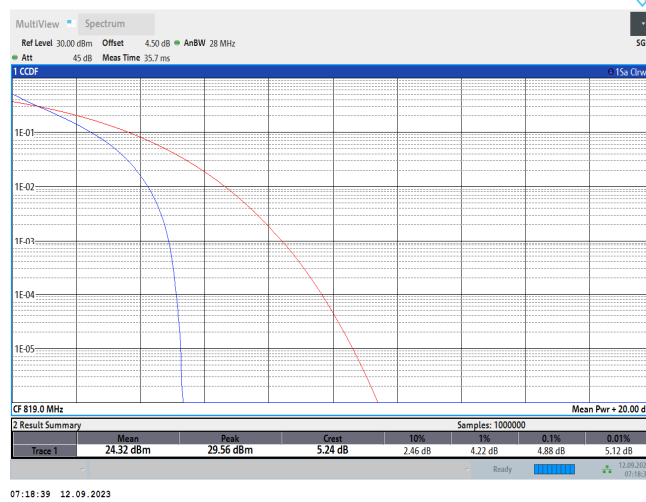
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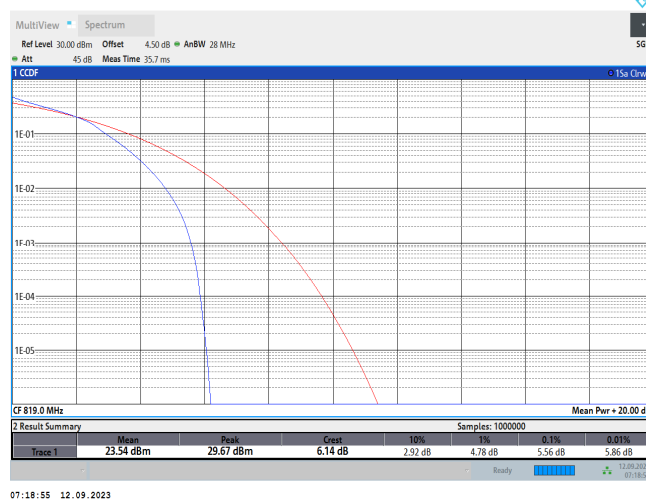
Page: 9 of 31

Test Graphs

Band26-10MHz-QPSK-26740-50RB#0



Band26-10MHz-16QAM-26740-50RB#0



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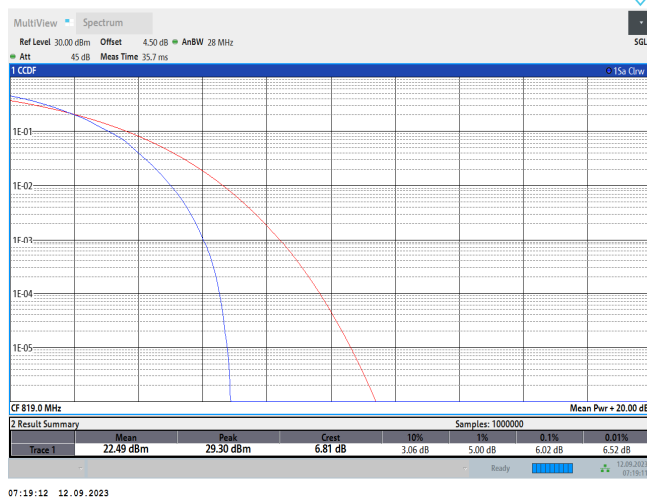
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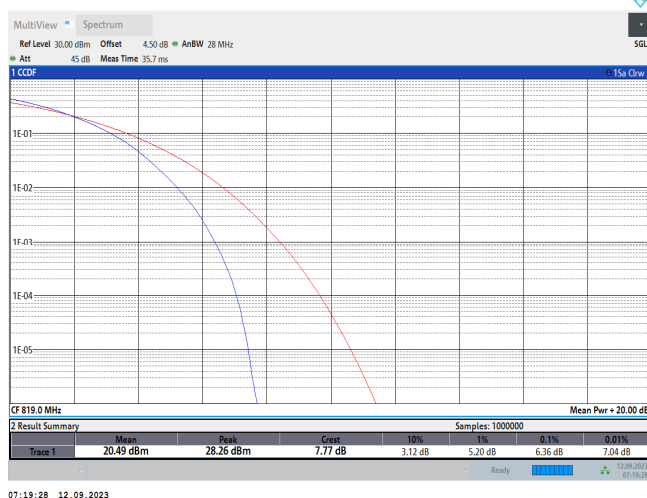
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Page: 10 of 31

Band26-10MHz-64QAM-26740-50RB#0



Band26-10MHz-256QAM-26740-50RB#0



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Rev.: 01

Page: 11 of 31

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26740	6RB#0	1.095	1.28	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.097	1.31	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.097	1.31	PASS
Band26	1.4MHz	256QAM	26740	6RB#0	1.087	1.29	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.7	2.95	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.696	2.94	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.692	2.92	PASS
Band26	3MHz	256QAM	26740	15RB#0	2.691	2.94	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.467	4.84	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.468	4.86	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.469	4.86	PASS
Band26	5MHz	256QAM	26740	25RB#0	4.471	4.84	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.925	9.64	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.93	9.70	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.943	9.70	PASS
Band26	10MHz	256QAM	26740	50RB#0	8.925	9.56	PASS



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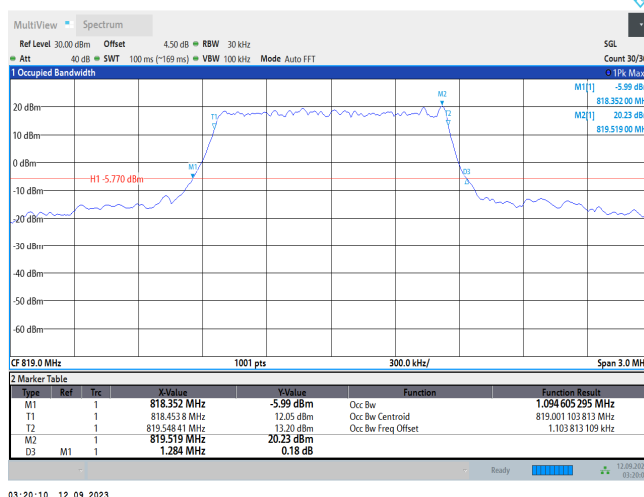
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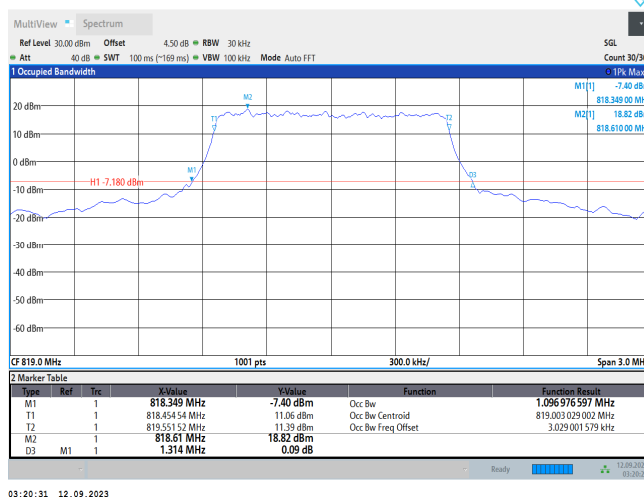
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Test Graphs

Band26-1.4MHz-QPSK-26740-6RB#0



Band26-1.4MHz-16QAM-26740-6RB#0



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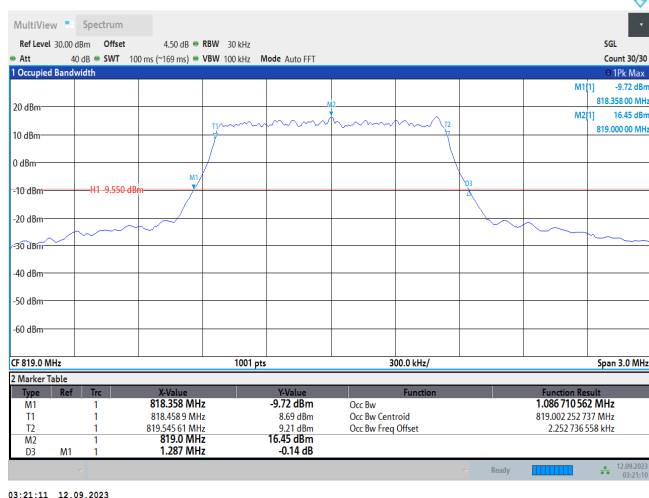
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Page: 13 of 31

Band26-1.4MHz-64QAM-26740-6RB#0



Band26-1.4MHz-256QAM-26740-6RB#0

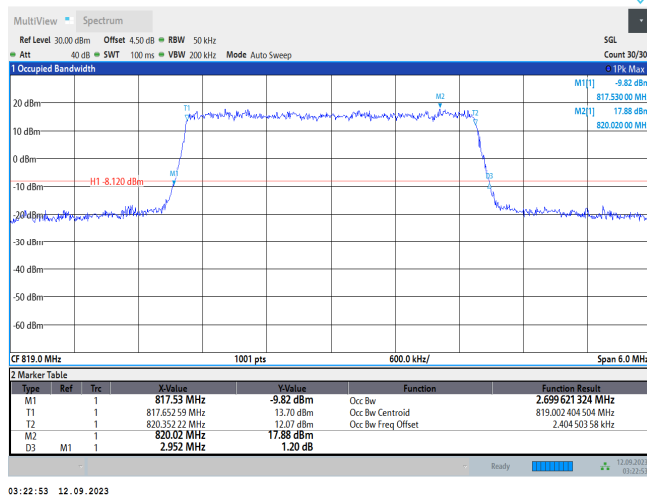


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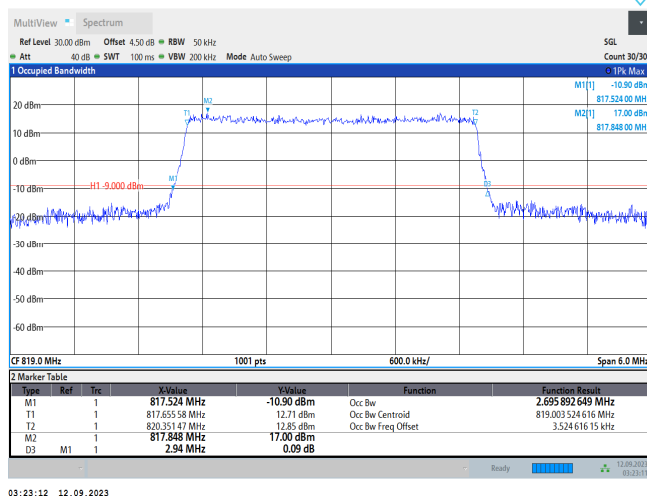
Page: 14 of 31

Band26-3MHz-QPSK-26740-15RB#0



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Band26-3MHz-16QAM-26740-15RB#0



03:23:12 12.09.2023



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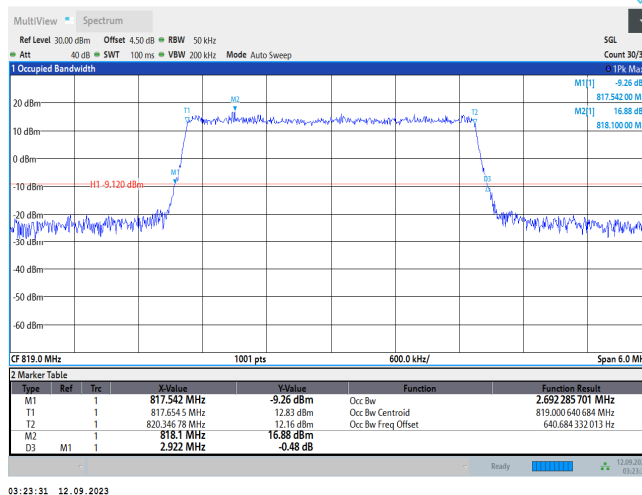
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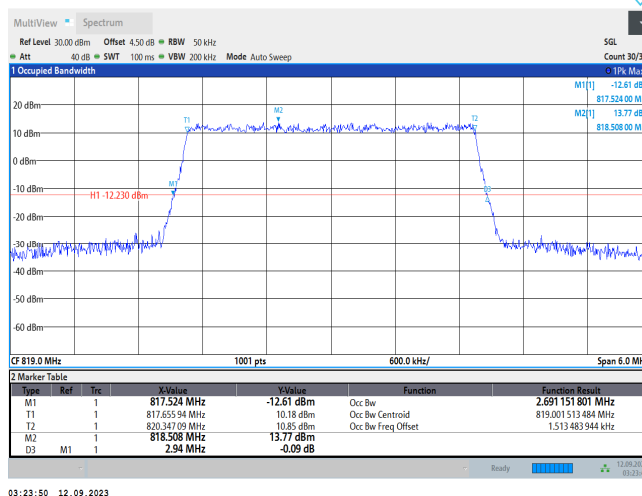
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Band26-3MHz-64QAM-26740-15RB#0



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Band26-3MHz-256QAM-26740-15RB#0



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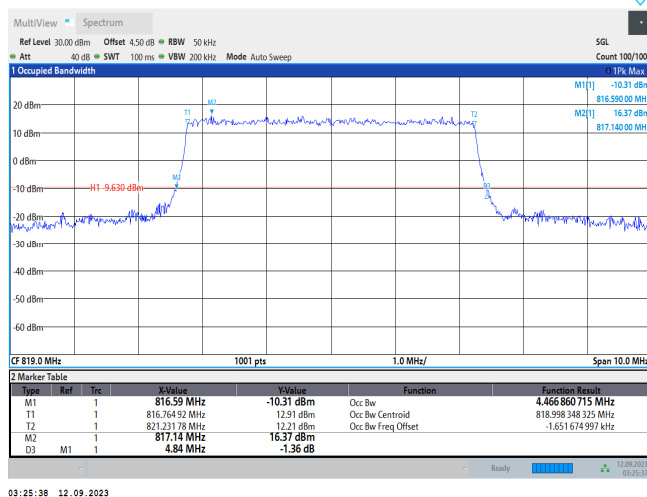
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Rev.: 01

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Band26-5MHz-QPSK-26740-25RB#0



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Band26-5MHz-16QAM-26740-25RB#0



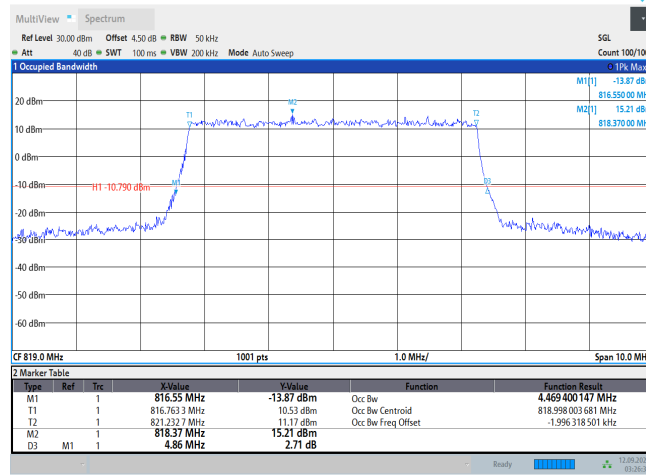
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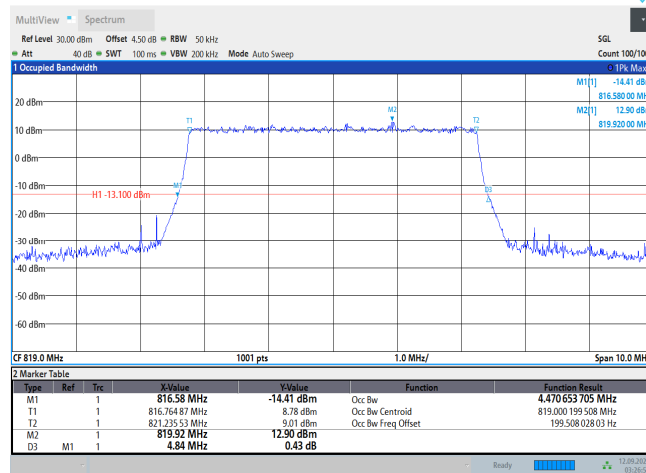
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Band26-5MHz-64QAM-26740-25RB#0



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Band26-5MHz-256QAM-26740-25RB#0



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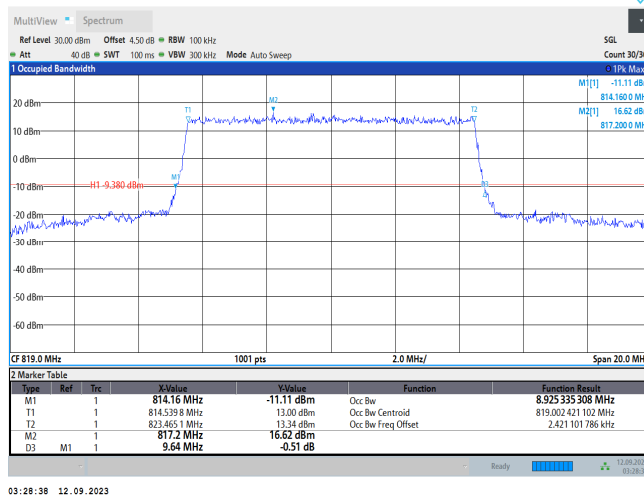
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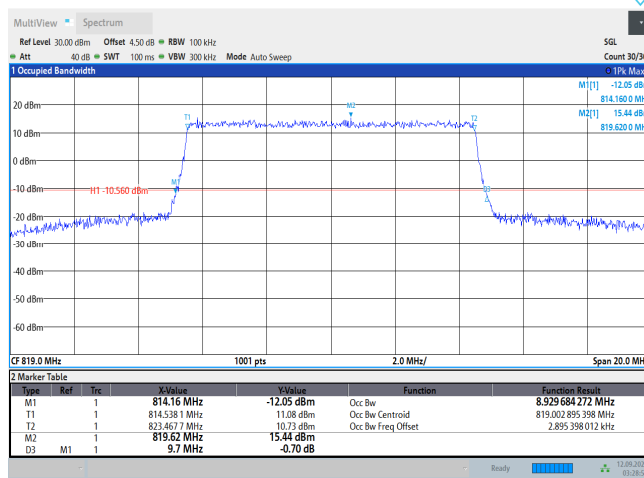
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Band26-10MHz-QPSK-26740-50RB#0



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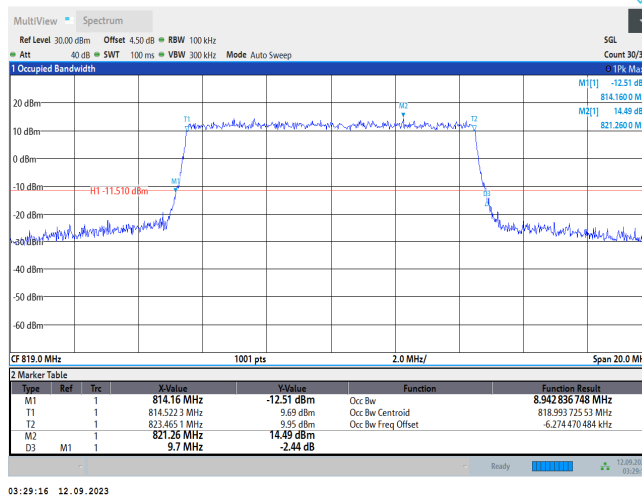
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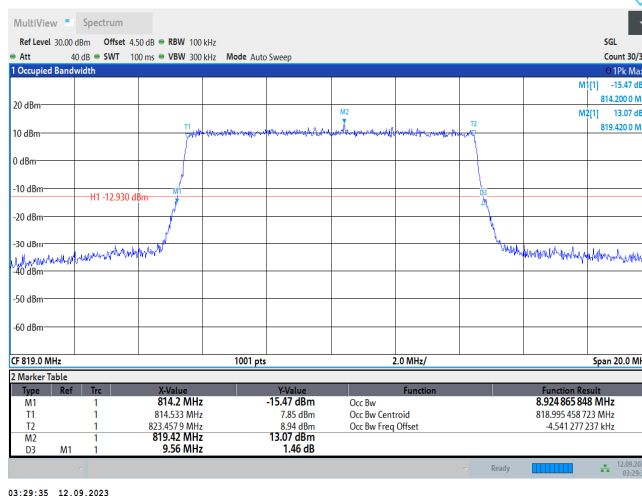
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Band26-10MHz-64QAM-26740-50RB#0



Band26-10MHz-256QAM-26740-50RB#0



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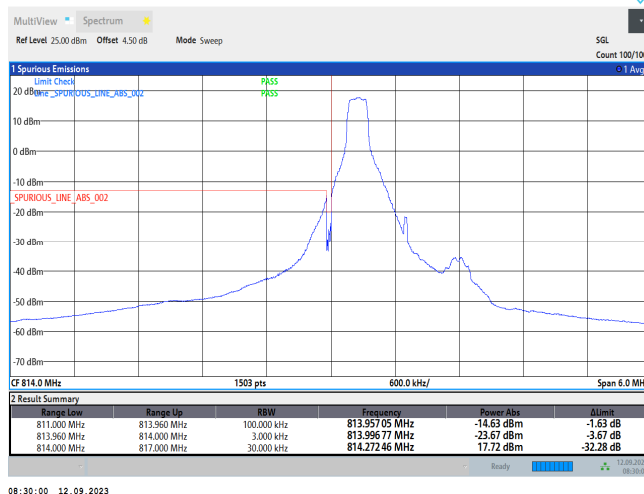
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Page: 20 of 31

Band Edge

Test Graphs

Band26-1.4MHz-QPSK-26697-1RB#0



Band26-1.4MHz-QPSK-26697-6RB#0



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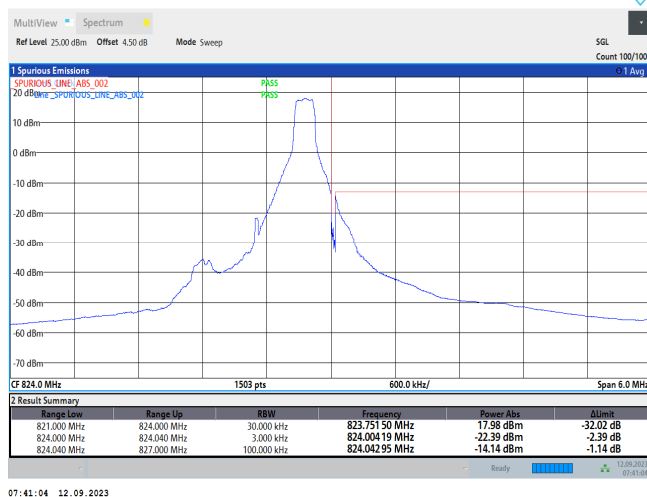
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Rev.: 01

Page: 21 of 31

Band26-1.4MHz-QPSK-26783-1RB#5



07:41:04 12.09.2023

Band26-1.4MHz-QPSK-26783-6RB#0



04:09:04 12.09.2023



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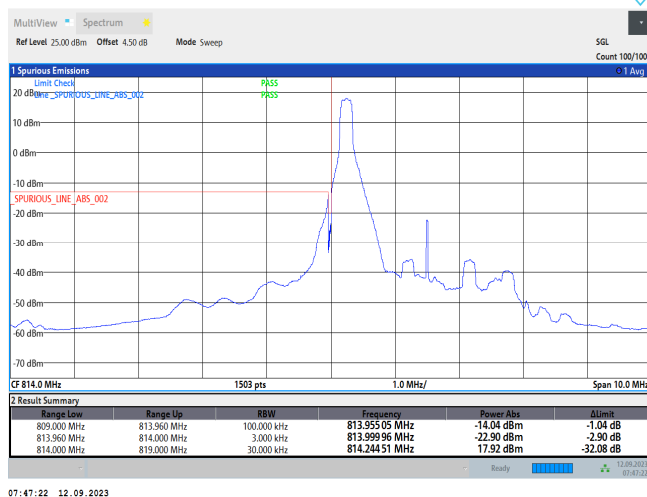
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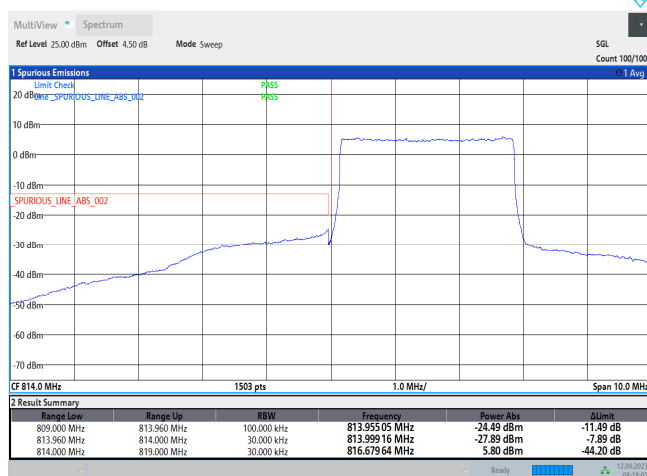
Page: 22 of 31

Band26-3MHz-QPSK-26705-1RB#0



07:47:22 12.09.2023

Band26-3MHz-QPSK-26705-15RB#0



04:18:08 12.09.2023



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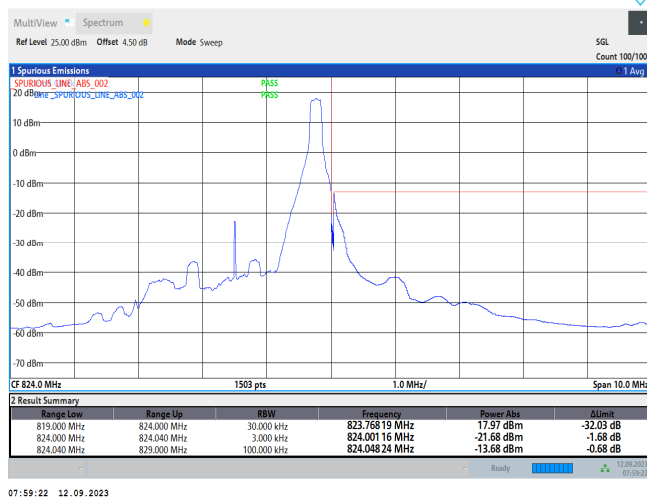
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Rev.: 01

Page: 23 of 31

Band26-3MHz-QPSK-26775-1RB#14



07:59:22 12.09.2023

Band26-3MHz-QPSK-26775-15RB#0



04:26:51 12.09.2023



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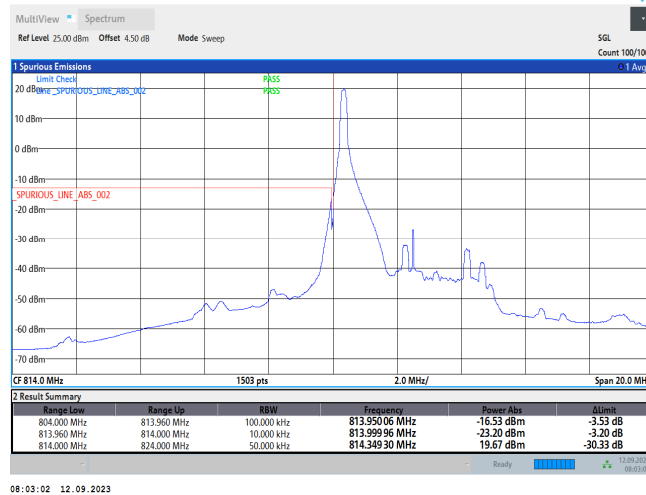
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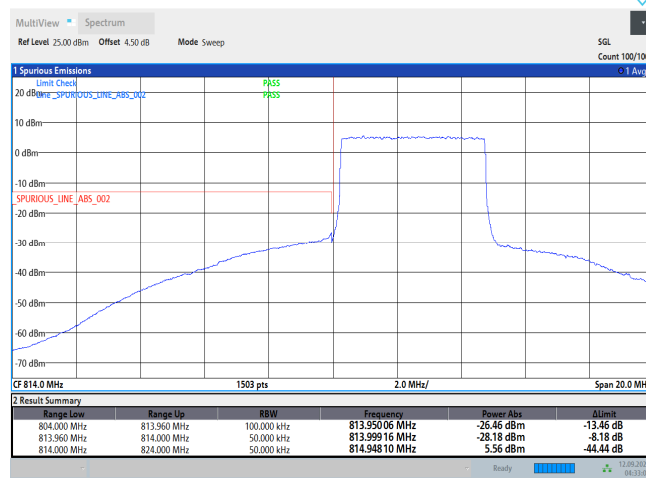
Page: 24 of 31

Band26-5MHz-QPSK-26715-1RB#0



08:03:02 12.09.2023

Band26-5MHz-QPSK-26715-25RB#0



04:33:05 12.09.2023



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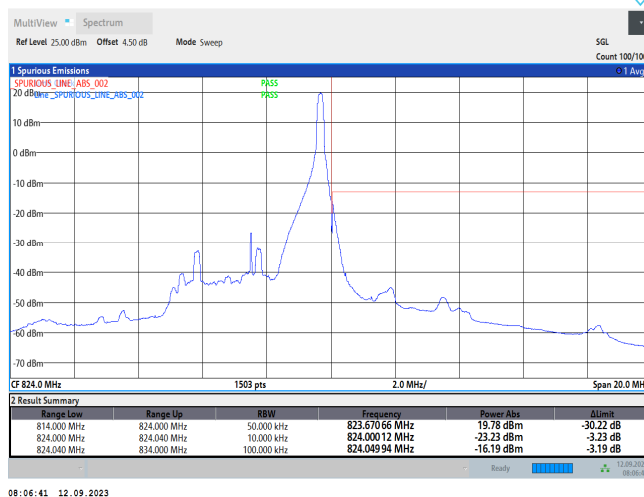
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Rev.: 01

Page: 25 of 31

Band26-5MHz-QPSK-26765-1RB#24



08:06:41 12.09.2023

Band26-5MHz-QPSK-26765-25RB#0



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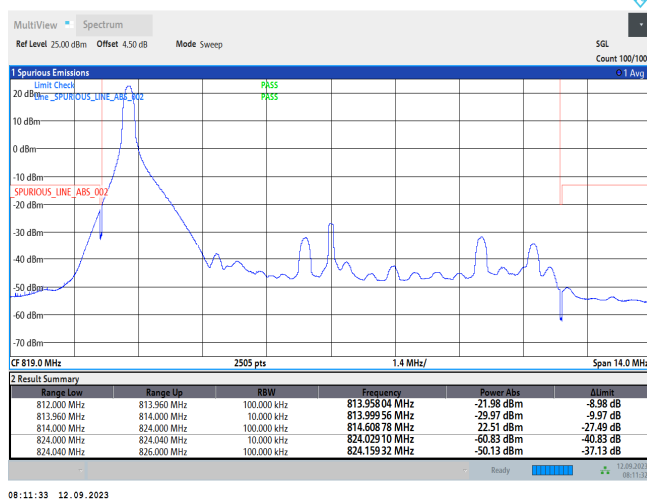
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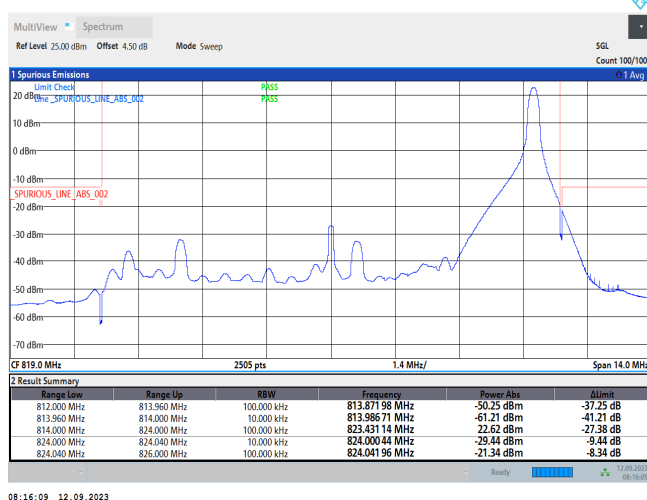
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Band26-10MHz-QPSK-26740-1RB#0



Band26-10MHz-QPSK-26740-1RB#49



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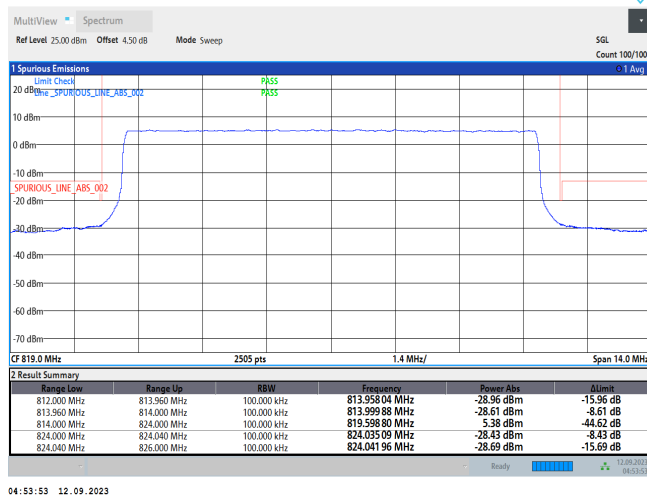
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Page: 27 of 31

Band26-10MHz-QPSK-26740-50RB#0



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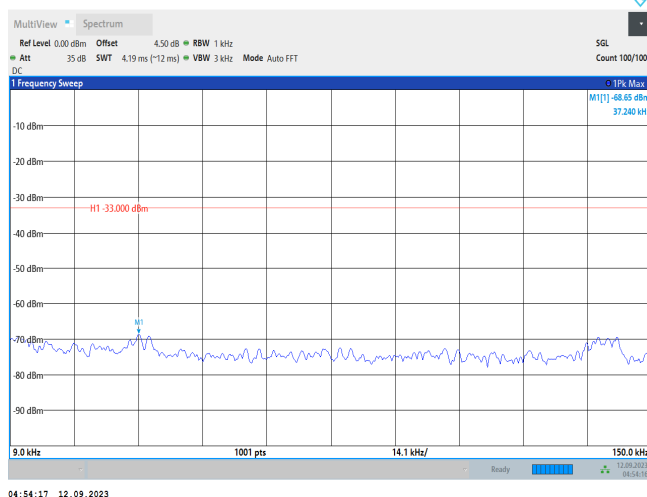
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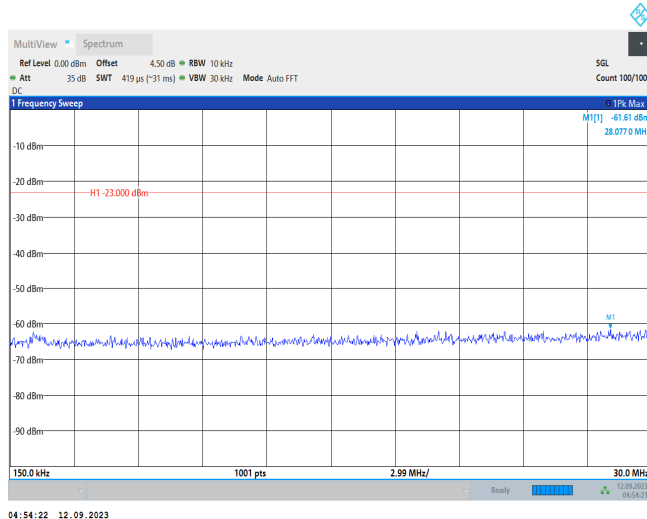
Conducted Spurious Emission

Test Graphs

Band26-10MHz-QPSK-26740-1RB#0-Range1:0.009~0.15MHz



Band26-10MHz-QPSK-26740-1RB#0-Range2:0.15~30MHz

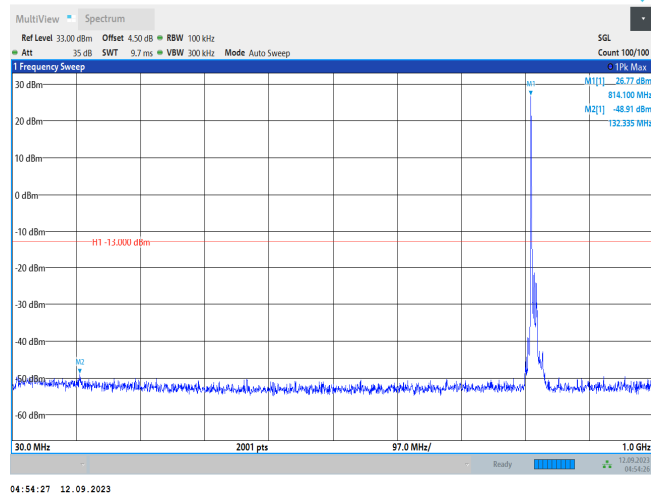


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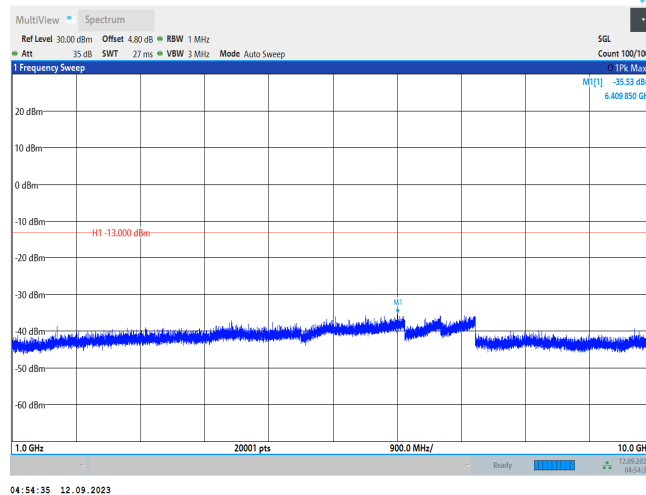
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Band26-10MHz-QPSK-26740-1RB#0-Range3:30~1000MHz



Band26-10MHz-QPSK-26740-1RB#0-Range4:1000~10000MHz



Report No.: SEWM2308000314RG01

Rev.: 01

Page: 30 of 31

Field Strength of Spurious Radiation

Test Band = LTE Band 26 10M_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3258.2222	48.99	-48.63	28.60	-66.29	-13.00	53.29	Horizontal
2	1629.18	56.34	-49.87	25.22	-63.57	-13.00	50.57	Horizontal
3	2443.77	45.75	-49.22	27.23	-71.50	-13.00	58.50	Horizontal
4	4072.95	43.91	-48.28	29.53	-70.10	-13.00	57.10	Horizontal
5	4887.54	43.70	-48.15	31.23	-68.48	-13.00	55.48	Horizontal
6	5702.13	43.67	-47.50	32.74	-66.35	-13.00	53.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3258.2222	48.86	-48.63	28.60	-66.42	-13.00	53.42	Vertical
2	1629.18	55.44	-49.87	25.22	-64.47	-13.00	51.47	Vertical
3	2443.77	45.09	-49.22	27.23	-72.16	-13.00	59.16	Vertical
4	4072.95	43.85	-48.28	29.53	-70.16	-13.00	57.16	Vertical
5	4887.54	43.23	-48.15	31.23	-68.95	-13.00	55.95	Vertical
6	5702.13	43.00	-47.50	32.74	-67.02	-13.00	54.02	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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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 31 of 31

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-4.90	-0.005983	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	0.80	0.000977	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	2.10	0.002564	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-1.10	-0.001343	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-0.60	-0.000733	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	1.80	0.002198	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-1.70	-0.002076	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-0.40	-0.000488	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-0.90	-0.001099	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-4.60	-0.005617	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-2.80	-0.003419	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	0.30	0.000366	PASS

---End of Attachment---



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