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Appendix B.10

LTE Band 26(814-824)



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Transmitter Conducted Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	24.03	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	24.00	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	24.05	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	23.09	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.86	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.94	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.86	50	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.95	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.89	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.95	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.90	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.96	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	23.38	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	23.32	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.37	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	22.11	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	23.41	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.32	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	23.23	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	22.03	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	23.44	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	23.31	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	23.33	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	22.07	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	22.30	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#2	22.22	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	22.21	50	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	21.08	50	PASS



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Band26	1.4MHz	64QAM	26740	1RB#0	22.11	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	22.15	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	22.13	50	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	21.05	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	22.23	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	22.39	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	22.13	50	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	21.05	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	24.04	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	24.02	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.86	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	23.11	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.90	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.93	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.82	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	23.04	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.94	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.91	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.89	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	23.03	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	23.41	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	23.23	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	23.29	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	22.10	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.29	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	23.27	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	23.27	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	22.08	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	23.22	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	23.35	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	23.38	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	22.05	50	PASS



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Band26	3MHz	64QAM	26705	1RB#8	22.22	50	PASS
Band26	3MHz	64QAM	26705	1RB#14	22.13	50	PASS
Band26	3MHz	64QAM	26705	15RB#0	21.12	50	PASS
Band26	3MHz	64QAM	26740	1RB#0	22.26	50	PASS
Band26	3MHz	64QAM	26740	1RB#8	22.27	50	PASS
Band26	3MHz	64QAM	26740	1RB#14	22.17	50	PASS
Band26	3MHz	64QAM	26740	15RB#0	21.05	50	PASS
Band26	3MHz	64QAM	26775	1RB#0	22.17	50	PASS
Band26	3MHz	64QAM	26775	1RB#8	22.28	50	PASS
Band26	3MHz	64QAM	26775	1RB#14	22.22	50	PASS
Band26	3MHz	64QAM	26775	15RB#0	20.98	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	24.02	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.96	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.88	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	23.04	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.98	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.97	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.85	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	23.05	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.93	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.85	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.86	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	23.01	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.40	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	23.48	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	23.23	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	22.13	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	23.38	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	23.29	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	23.37	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	22.06	50	PASS



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Band26	5MHz	16QAM	26765	1RB#12	23.24	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	23.22	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	22.00	50	PASS
Band26	5MHz	64QAM	26715	1RB#0	22.28	50	PASS
Band26	5MHz	64QAM	26715	1RB#12	22.32	50	PASS
Band26	5MHz	64QAM	26715	1RB#24	22.20	50	PASS
Band26	5MHz	64QAM	26715	25RB#0	21.07	50	PASS
Band26	5MHz	64QAM	26740	1RB#0	22.30	50	PASS
Band26	5MHz	64QAM	26740	1RB#12	22.33	50	PASS
Band26	5MHz	64QAM	26740	1RB#24	22.17	50	PASS
Band26	5MHz	64QAM	26740	25RB#0	21.04	50	PASS
Band26	5MHz	64QAM	26765	1RB#0	22.15	50	PASS
Band26	5MHz	64QAM	26765	1RB#12	22.23	50	PASS
Band26	5MHz	64QAM	26765	1RB#24	22.18	50	PASS
Band26	5MHz	64QAM	26765	25RB#0	21.07	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	24.08	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.93	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.84	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	23.02	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.28	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	23.38	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	23.20	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	22.11	50	PASS
Band26	10MHz	64QAM	26740	1RB#0	22.35	50	PASS
Band26	10MHz	64QAM	26740	1RB#24	22.21	50	PASS
Band26	10MHz	64QAM	26740	1RB#49	22.19	50	PASS
Band26	10MHz	64QAM	26740	50RB#0	21.03	50	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.22	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.02	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.36	13	PASS



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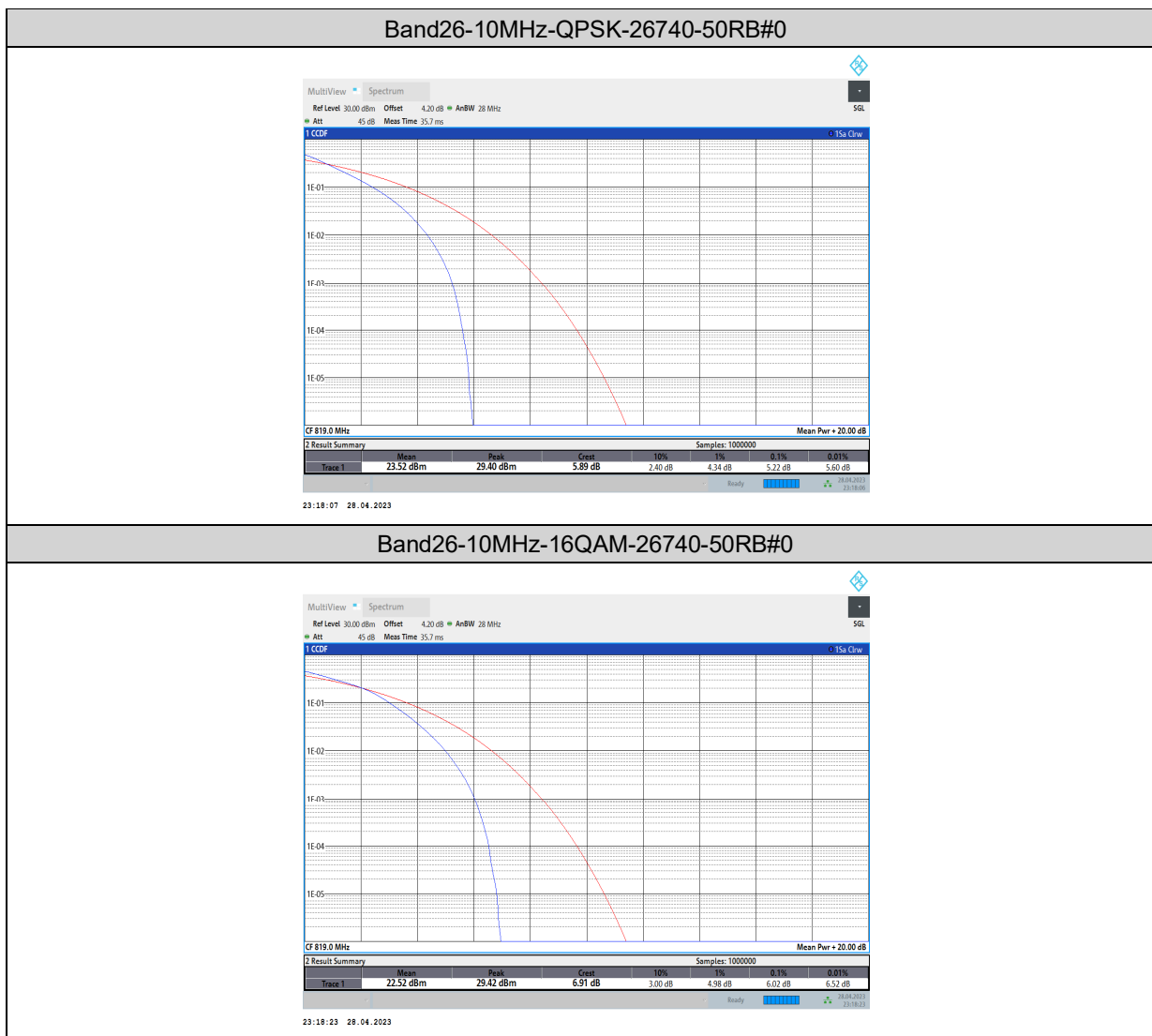
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Test Graphs



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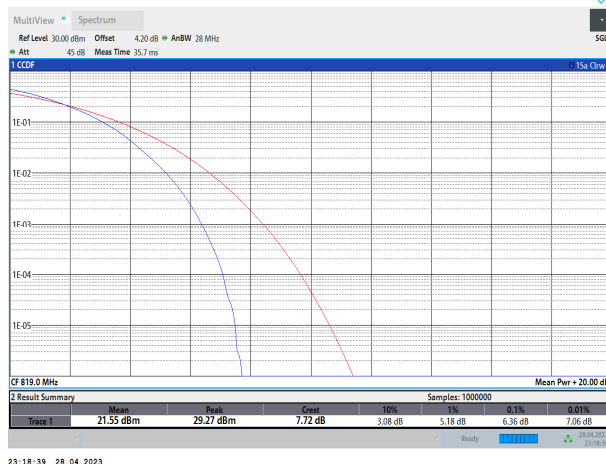
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Band26-10MHz-64QAM-26740-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS
Band26	10MHz	64QAM	26740	50RB#0	PASS	PASS



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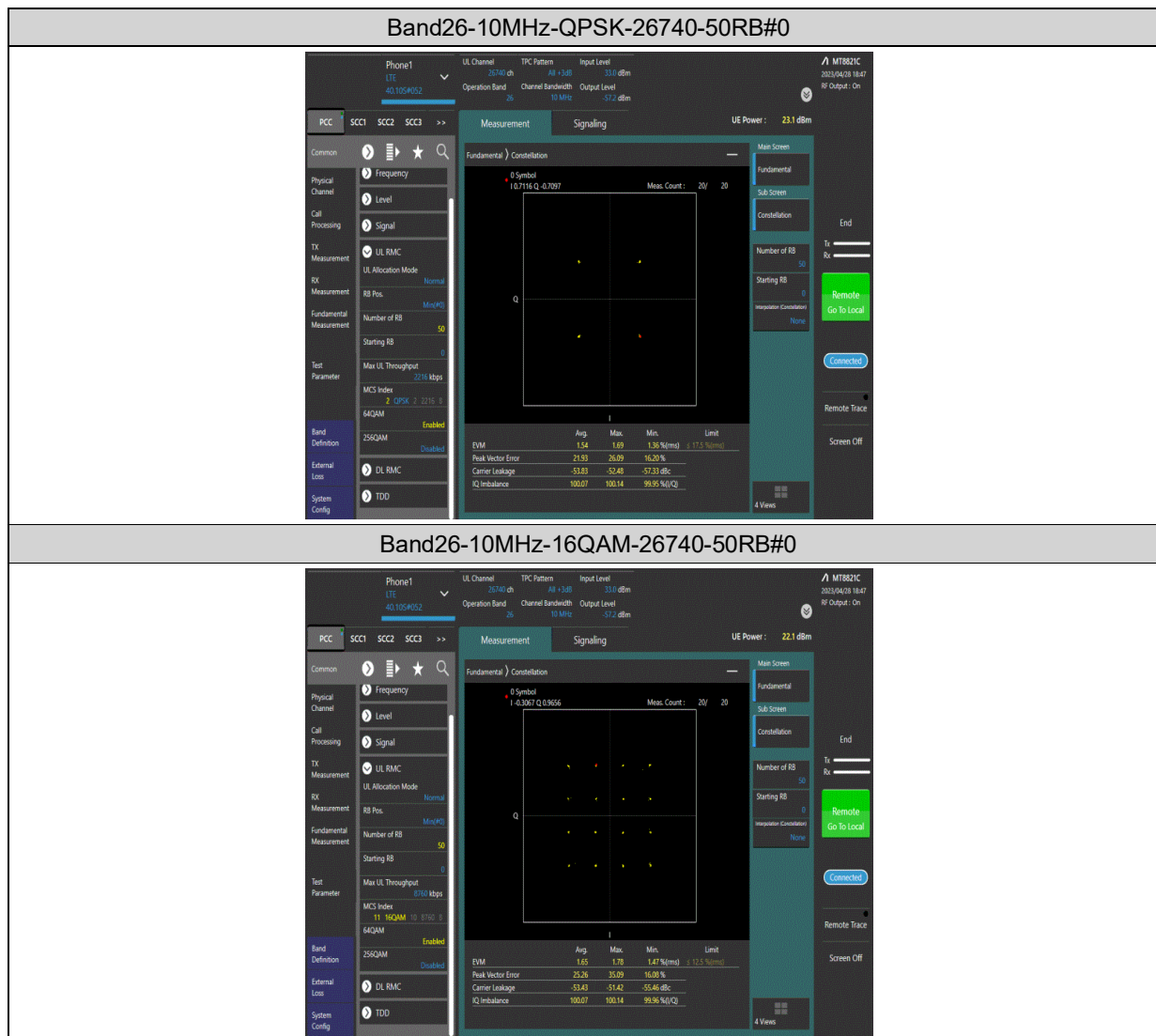
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Test Graphs



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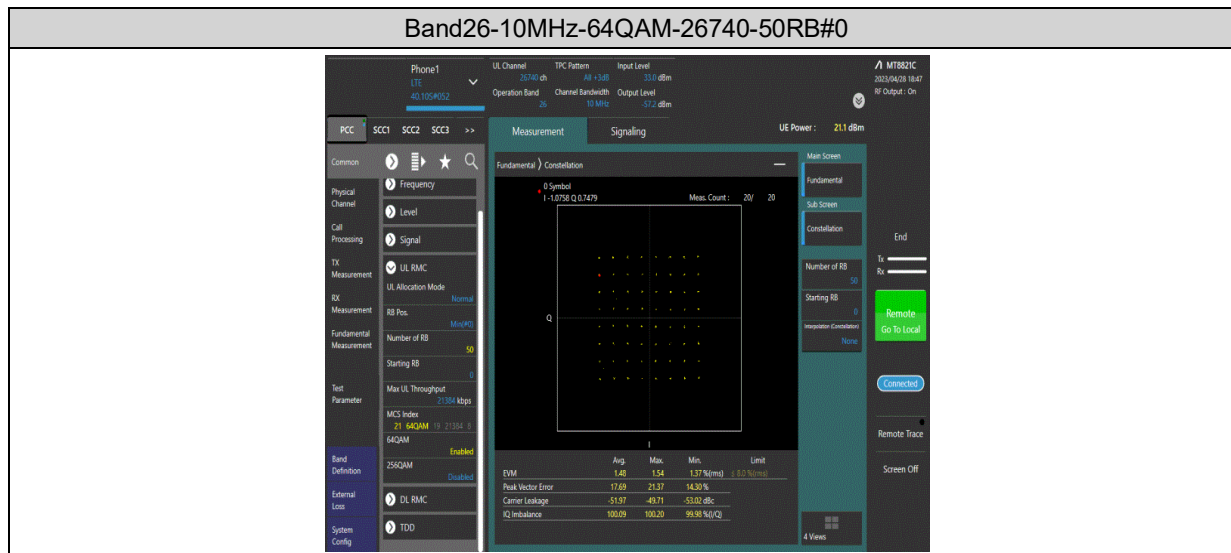
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Band26-10MHz-64QAM-26740-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.089	1.32	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.112	1.39	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.102	1.32	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.101	1.31	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.094	1.38	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.106	1.32	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.107	1.36	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.099	1.33	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.098	1.35	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.705	3.03	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.688	3.04	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.700	2.99	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.691	2.96	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.709	3.01	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.701	3.06	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.704	3.03	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.692	3.02	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.688	3.05	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.477	5.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.480	4.94	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.473	4.92	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.478	5.06	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.483	4.96	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.493	4.89	PASS
Band26	5MHz	64QAM	26715	25RB#0	4.477	4.93	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.468	4.92	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.489	5.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.956	9.58	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.940	9.52	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.964	9.62	PASS



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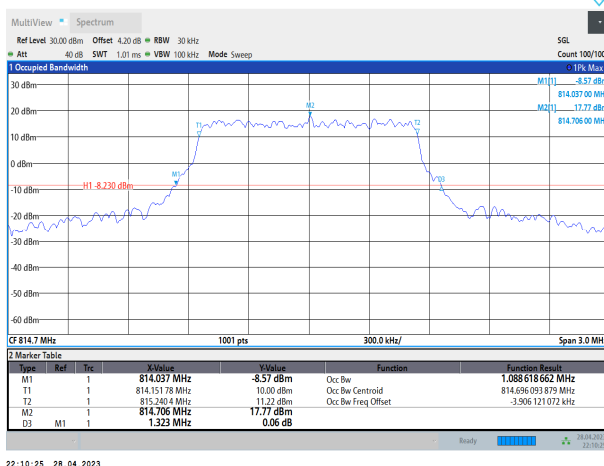
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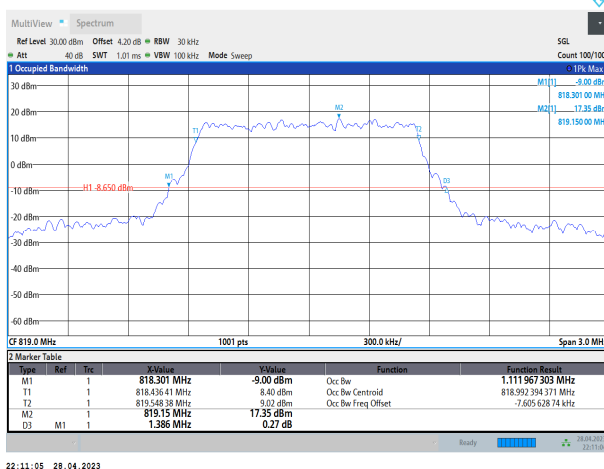
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Test Graphs

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



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

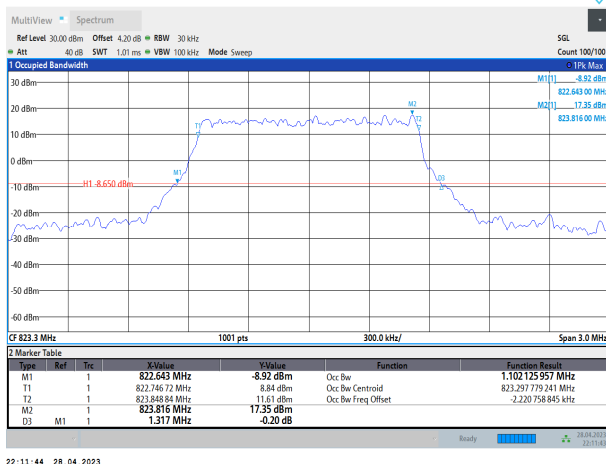


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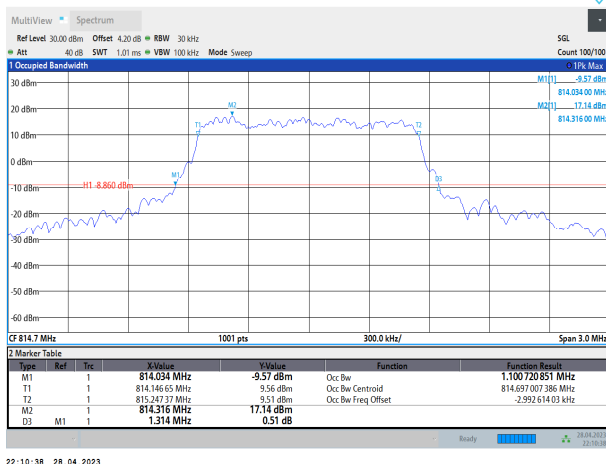
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Band26-1.4MHz-QPSK-26783-6RB#0



22:11:44 28.04.2023

Band26-1.4MHz-16QAM-26697-6RB#0



22:10:38 28.04.2023



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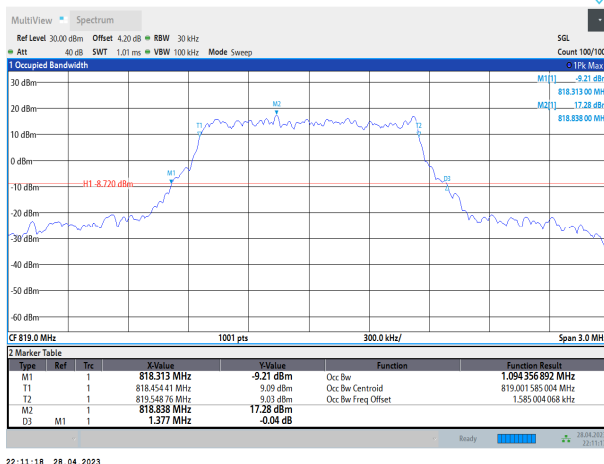
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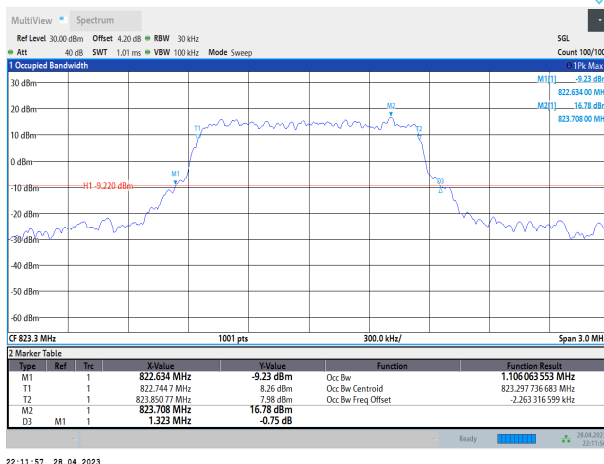
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Band26-1.4MHz-16QAM-26740-6RB#0



Band26-1.4MHz-16QAM-26783-6RB#0



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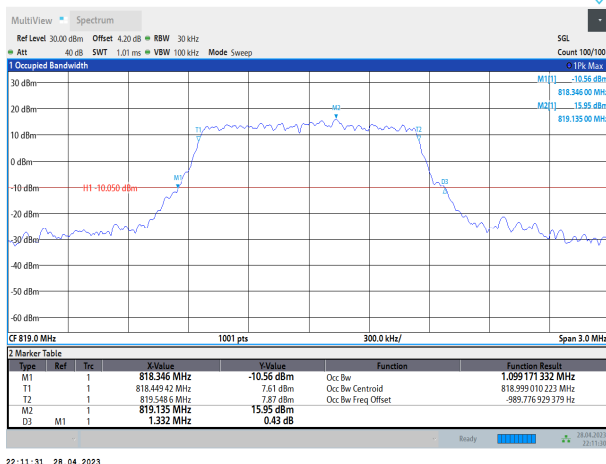
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Band26-1.4MHz-64QAM-26697-6RB#0



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



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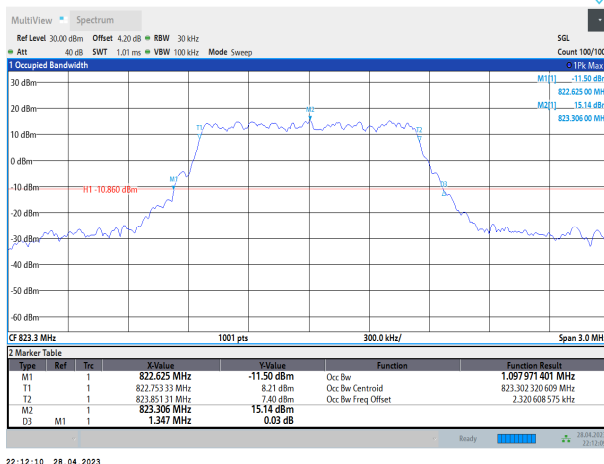
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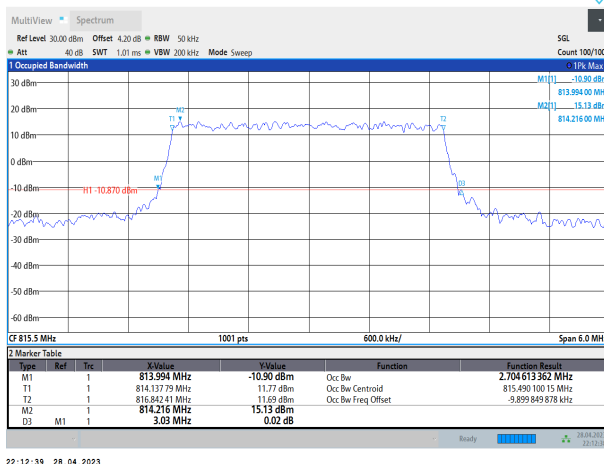
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Band26-3MHz-QPSK-26705-15RB#0



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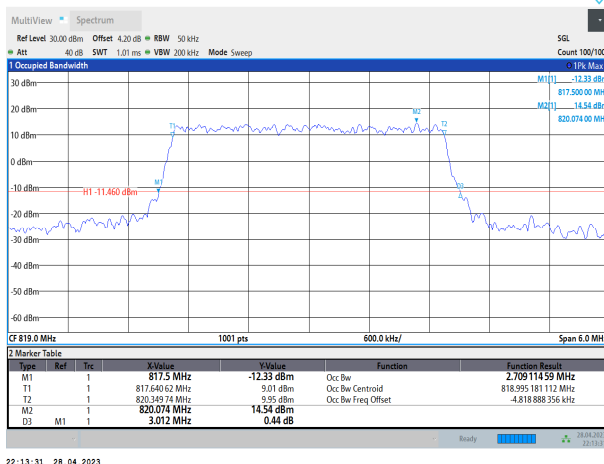
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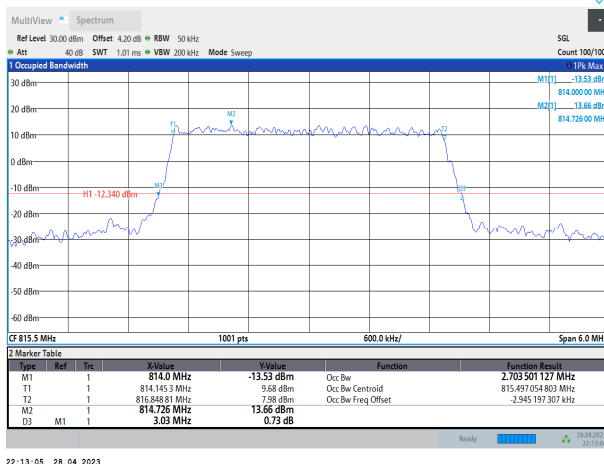
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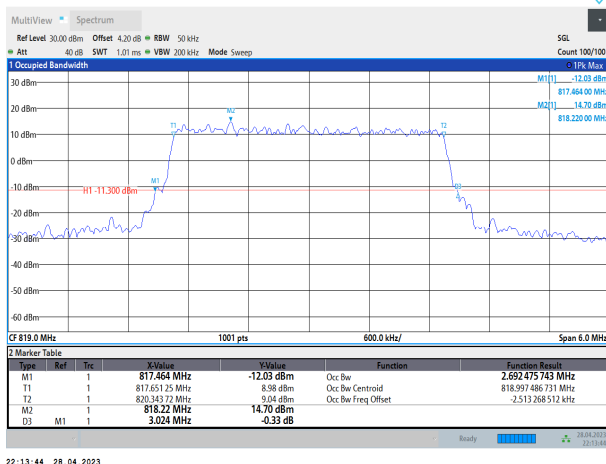


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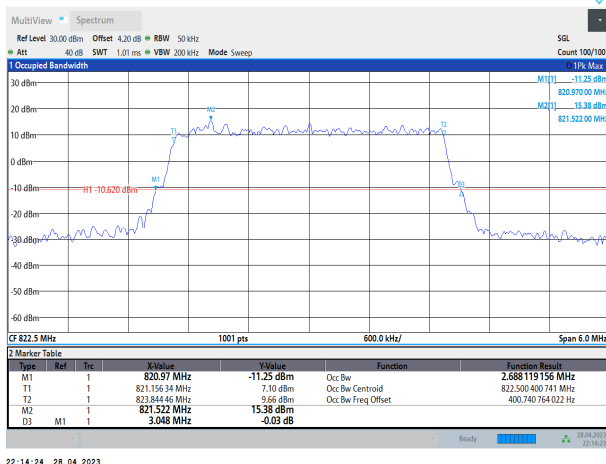
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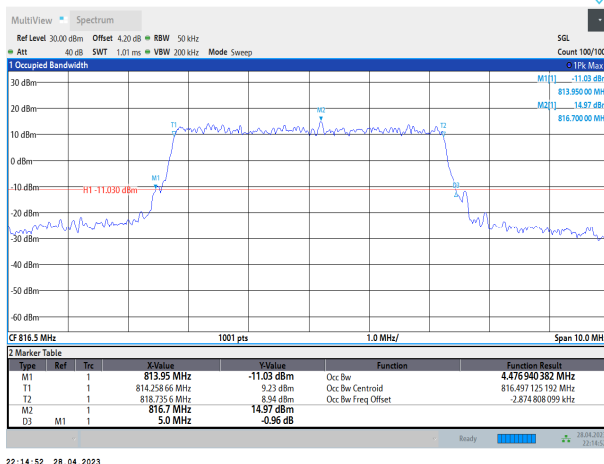
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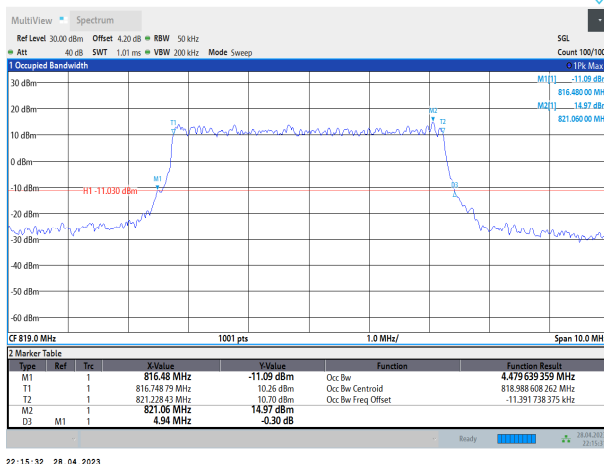
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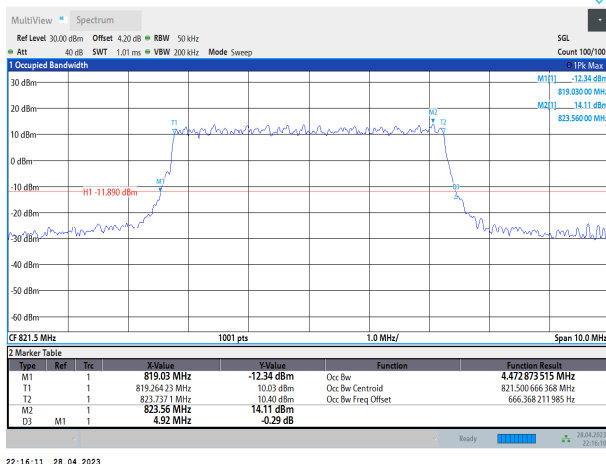


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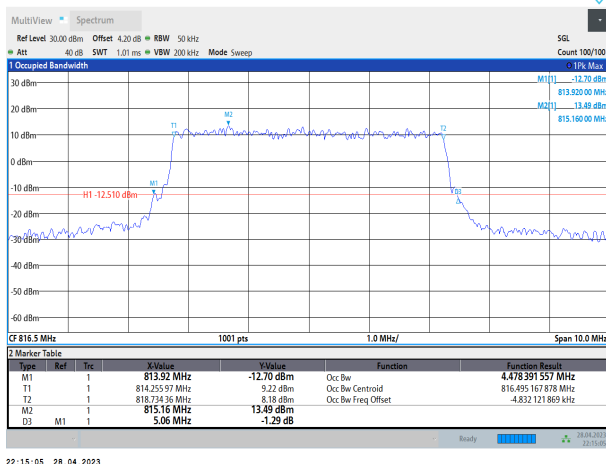
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Band26-5MHz-QPSK-26765-25RB#0



Band26-5MHz-16QAM-26715-25RB#0

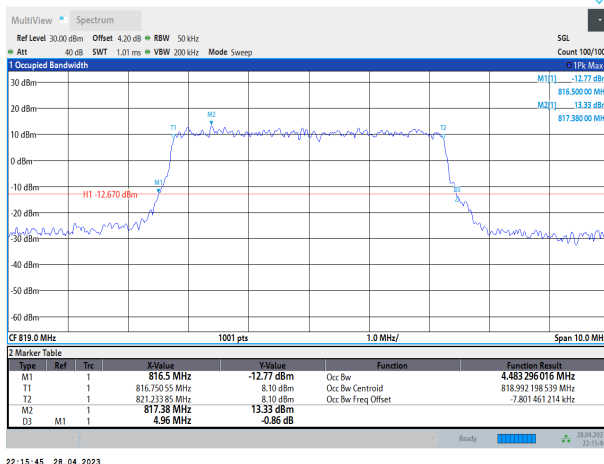


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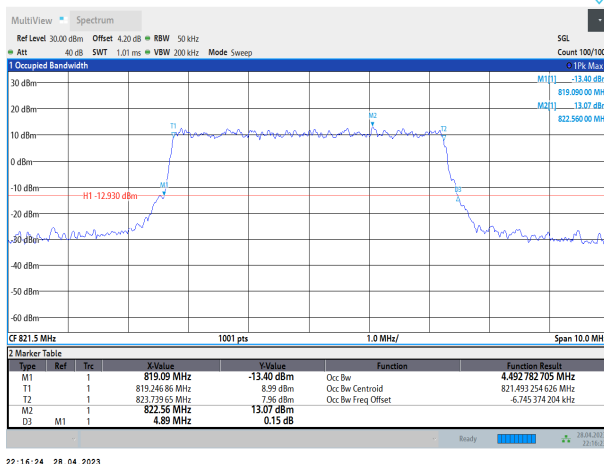
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Band26-5MHz-16QAM-26740-25RB#0



Band26-5MHz-16QAM-26765-25RB#0



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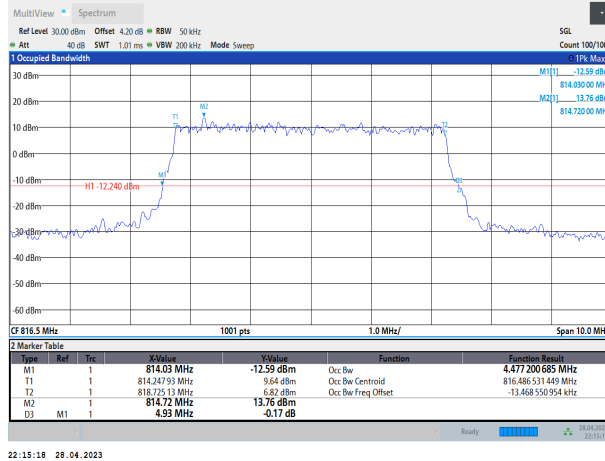
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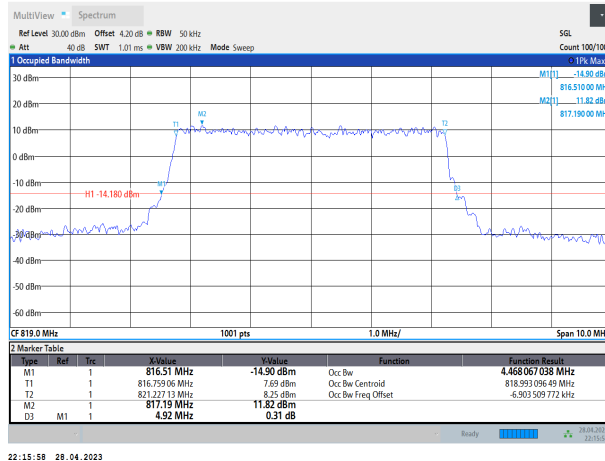
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Band26-5MHz-64QAM-26715-25RB#0



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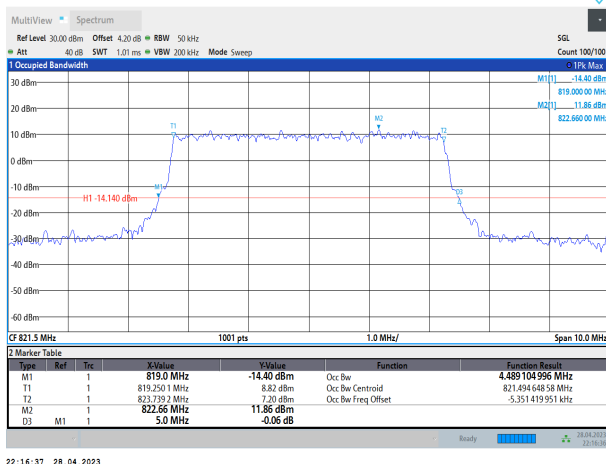
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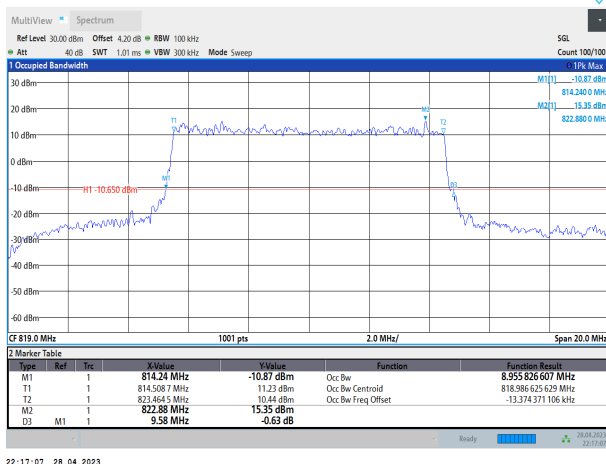
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Band26-10MHz-QPSK-26740-50RB#0



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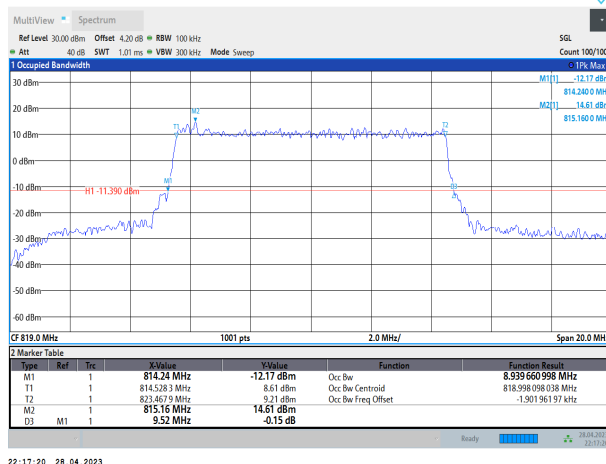
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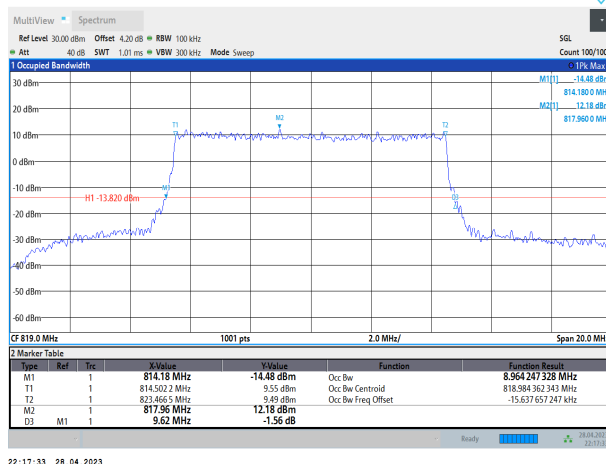
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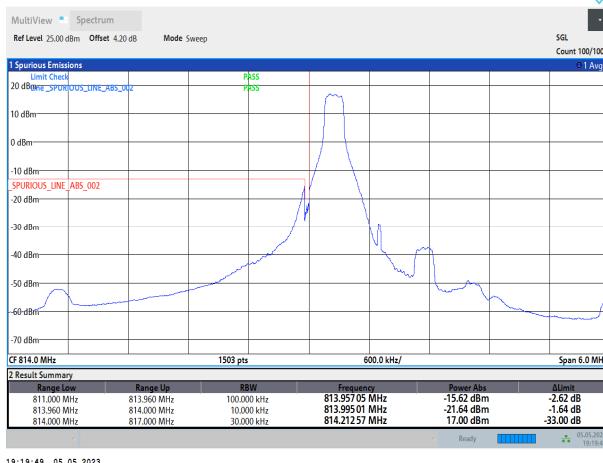
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Band Edge

Test Graphs

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



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



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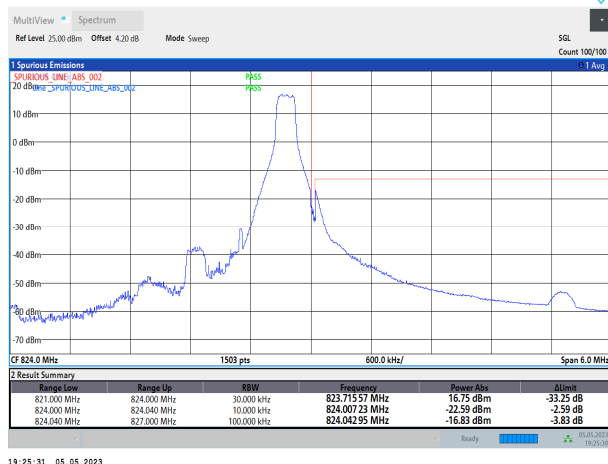
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Band26-1.4MHz-QPSK-26783-1RB#5



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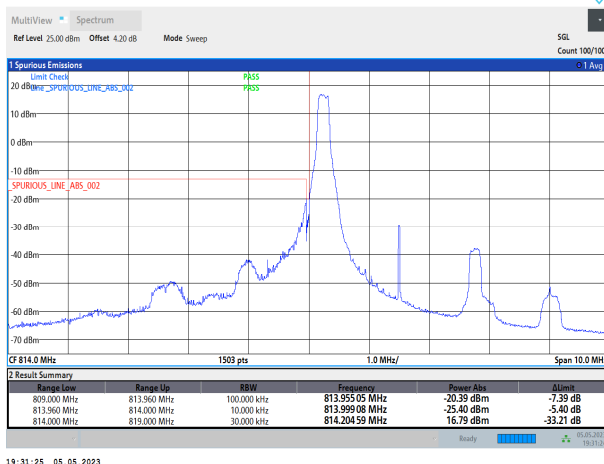
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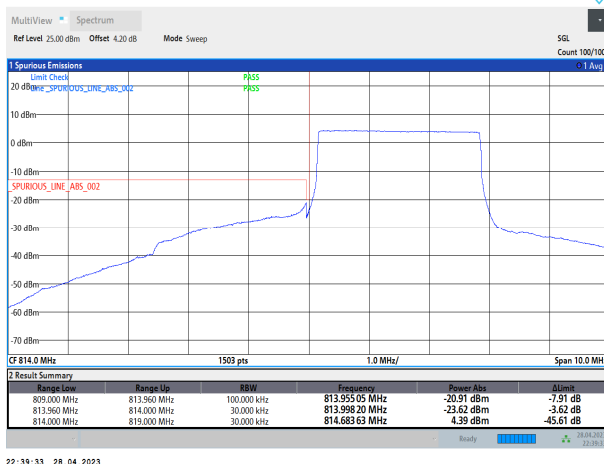
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Band26-3MHz-QPSK-26705-1RB#0



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



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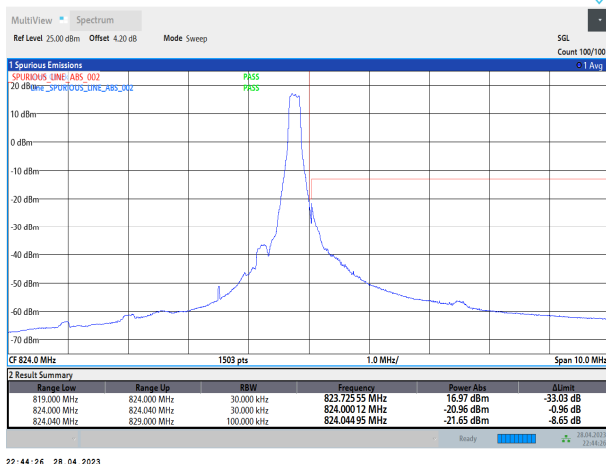
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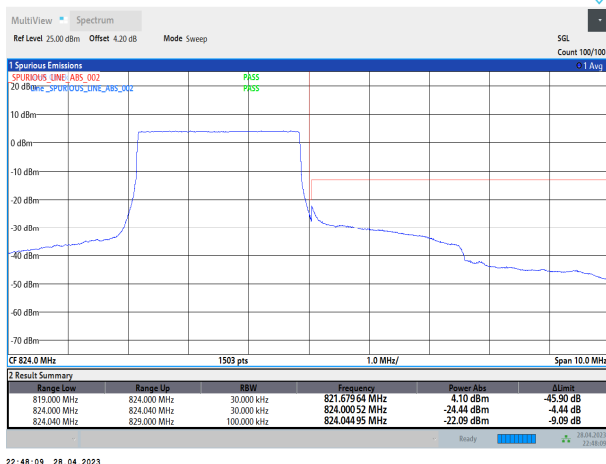
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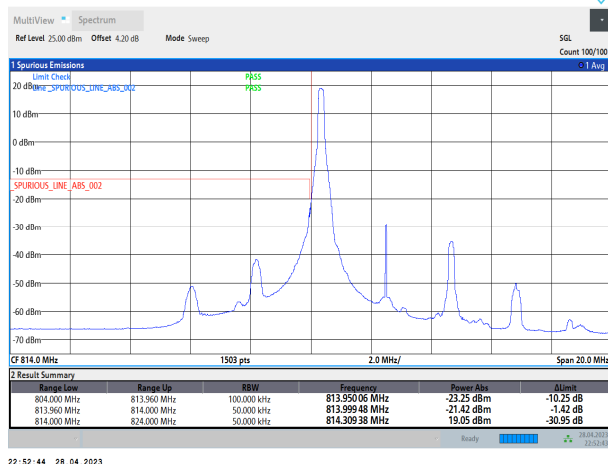
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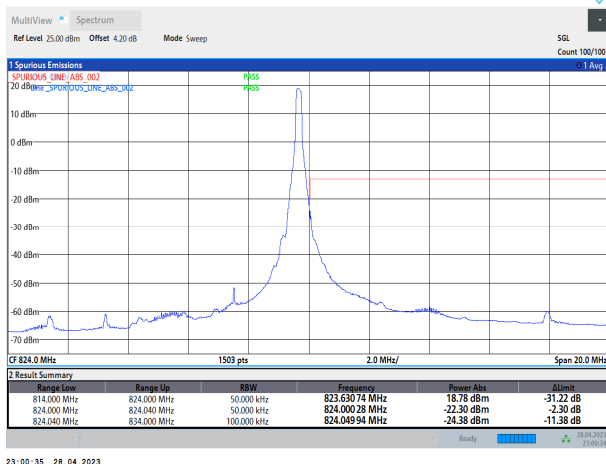
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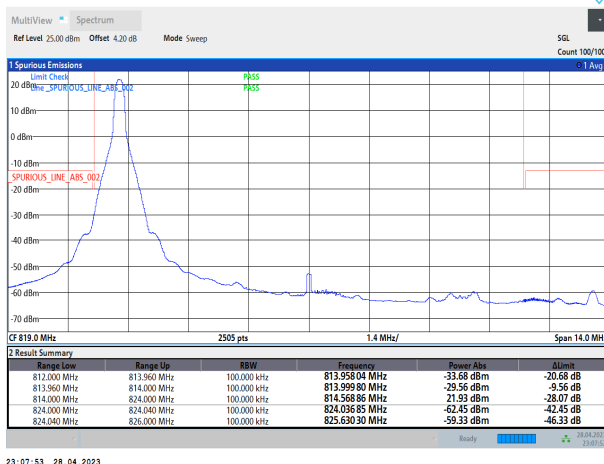
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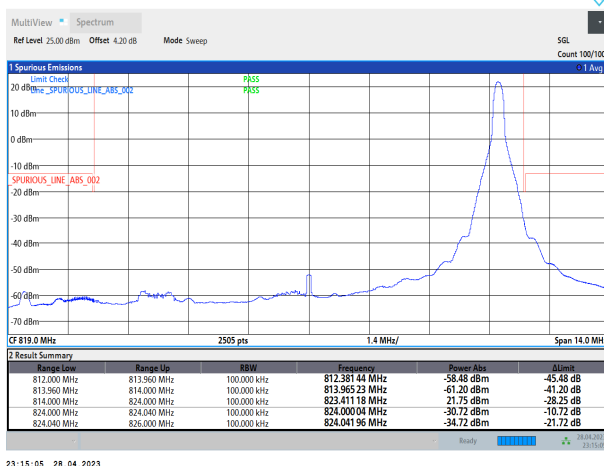
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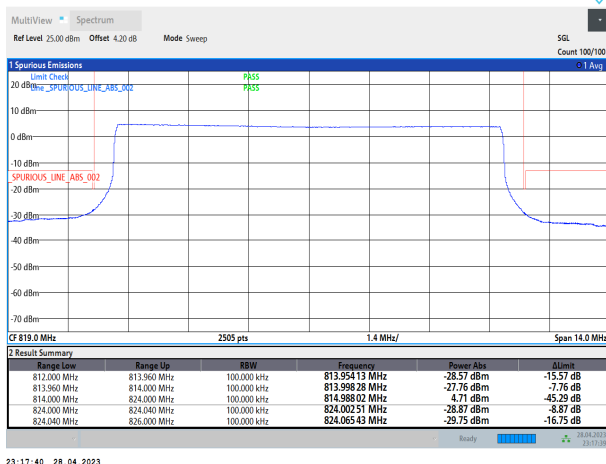
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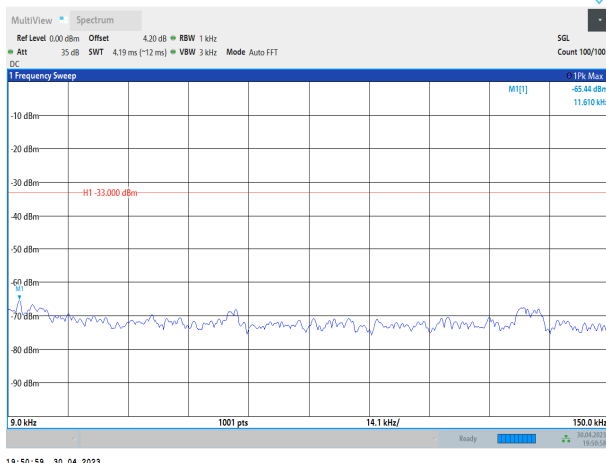
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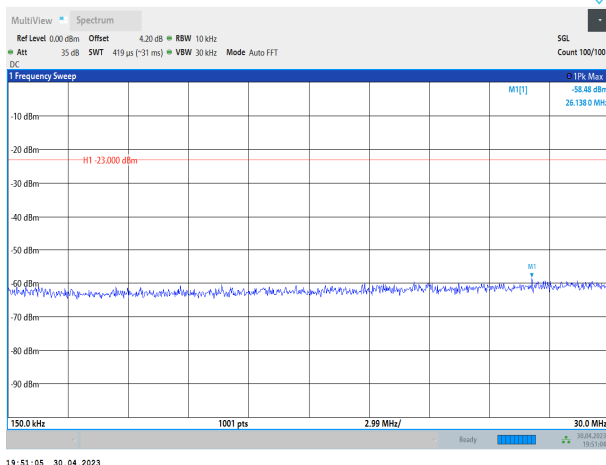
Conducted Spurious Emission

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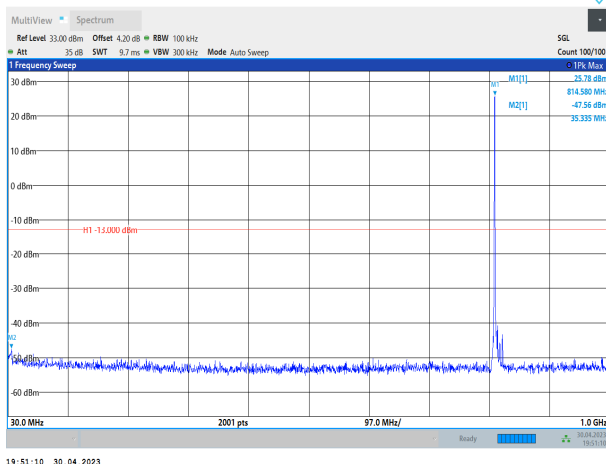
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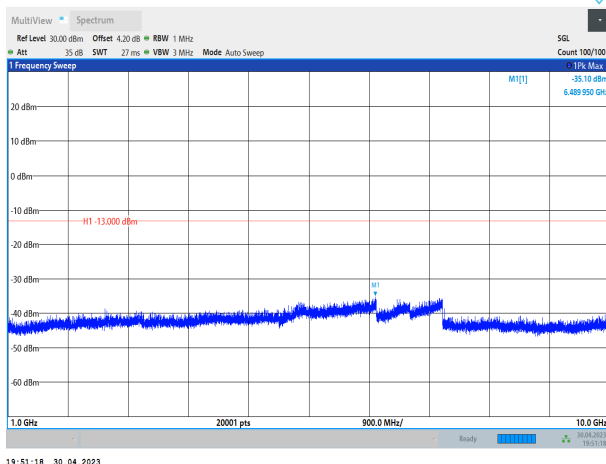
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Band26-10MHz-QPSK-26740-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band26_10MHz _ TM1

Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.1800	43.69	-48.24	25.36	-74.45	-13.00	61.45	218	264	Horizontal
2	2443.7700	42.36	-47.37	27.59	-72.69	-13.00	59.69	147	350	Horizontal
3	3258.3600	42.30	-46.52	29.61	-69.87	-13.00	56.87	156	329	Horizontal
4	4072.9500	41.85	-45.98	30.91	-68.48	-13.00	55.48	236	329	Horizontal
5	4887.5400	41.73	-45.59	32.57	-66.55	-13.00	53.55	259	342	Horizontal
6	5702.1300	40.06	-44.57	33.39	-66.38	-13.00	53.38	291	317	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.1800	43.64	-48.24	25.36	-74.50	-13.00	61.50	214	2	Vertical
2	2443.7700	42.50	-47.37	27.59	-72.55	-13.00	59.55	251	283	Vertical
3	3258.3600	41.93	-46.52	29.61	-70.24	-13.00	57.24	142	295	Vertical
4	4072.9500	41.18	-45.98	30.91	-69.15	-13.00	56.15	136	357	Vertical
5	4887.5400	41.78	-45.59	32.57	-66.50	-13.00	53.50	159	1	Vertical
6	5702.1300	40.38	-44.57	33.39	-66.06	-13.00	53.06	172	322	Vertical



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Test Band = LTE Band26_10MHz _ TM1**Test Channel = Mid ANT4****Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.1800	44.20	-48.24	25.36	-73.94	-13.00	60.94	255	53	Horizontal
2	2443.7700	42.36	-47.37	27.59	-72.69	-13.00	59.69	142	360	Horizontal
3	3258.3600	42.00	-46.52	29.61	-70.17	-13.00	57.17	126	3	Horizontal
4	4072.9500	41.31	-45.98	30.91	-69.02	-13.00	56.02	188	53	Horizontal
5	4887.5400	41.51	-45.59	32.57	-66.77	-13.00	53.77	259	360	Horizontal
6	5702.1300	39.82	-44.57	33.39	-66.62	-13.00	53.62	190	53	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.1800	43.49	-48.24	25.36	-74.65	-13.00	61.65	214	109	Vertical
2	2443.7700	42.96	-47.37	27.59	-72.09	-13.00	59.09	174	294	Vertical
3	3258.3600	42.65	-46.52	29.61	-69.52	-13.00	56.52	158	0	Vertical
4	4072.9500	41.83	-45.98	30.91	-68.50	-13.00	55.50	183	322	Vertical
5	4887.5400	41.67	-45.59	32.57	-66.61	-13.00	53.61	265	255	Vertical
6	5702.1300	39.76	-44.57	33.39	-66.68	-13.00	53.68	129	0	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	1.00	0.001221	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	1.20	0.001465	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	0.10	0.000122	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-2.30	-0.002808	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	0.00	0.000000	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	1.80	0.002198	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-0.30	-0.000366	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-0.40	-0.000488	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	1.20	0.001465	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	0.50	0.000611	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-0.40	-0.000488	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-0.70	-0.000855	PASS

---End of Attachment---



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