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Appendix B.9

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	22.85	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	22.91	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	22.81	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	21.89	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	22.82	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	22.86	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	22.77	50	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	21.87	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	22.79	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	22.85	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	22.88	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	21.92	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.14	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.17	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.04	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.13	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.22	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.04	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	20.99	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.06	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.21	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.09	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.01	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	22.9	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	22.9	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	22.85	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	21.93	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	22.87	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	22.83	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	22.8	50	PASS



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Band26	3MHz	QPSK	26740	15RB#0	21.89	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	22.83	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	22.84	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	22.97	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	21.97	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.26	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.13	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.15	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	20.95	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.16	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.15	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.16	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	20.97	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.07	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.18	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.2	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.01	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	22.9	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	22.9	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	22.82	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	21.93	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	22.88	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	22.85	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	22.83	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	21.92	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	22.86	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	22.88	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	22.82	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	21.9	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.28	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.19	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.03	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	20.95	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.22	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.05	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.1	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	20.96	50	PASS



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Band26	5MHz	16QAM	26765	1RB#0	22.17	50	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.07	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.1	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	20.94	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	22.93	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	22.87	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	22.8	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	21.92	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.27	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.21	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.12	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	20.93	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	5.52	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.28	13	PASS



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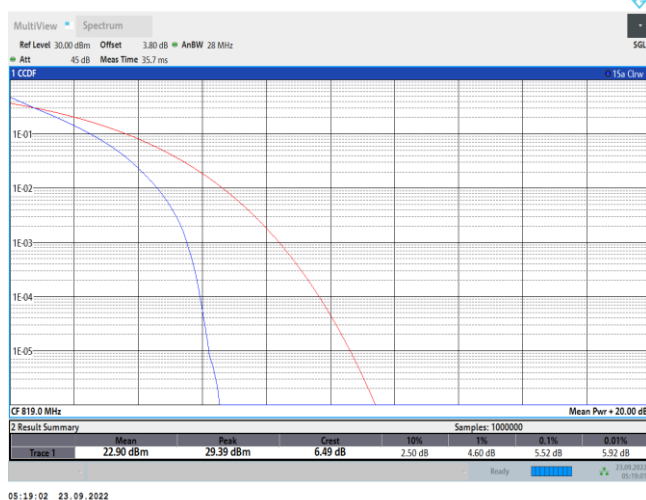
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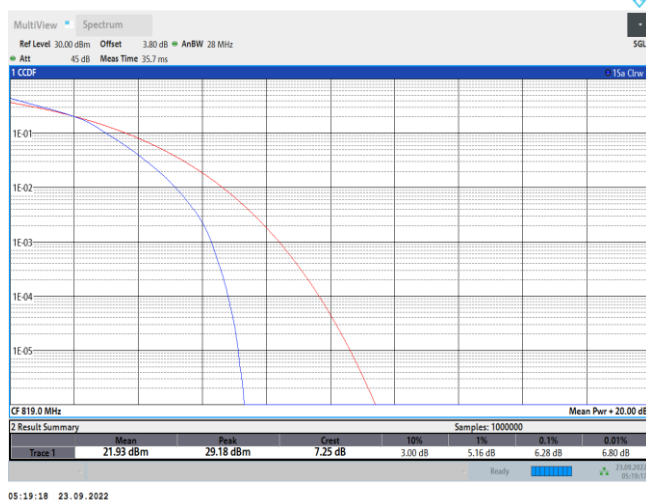
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Test Graphs

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



Band26-10MHz-16QAM-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



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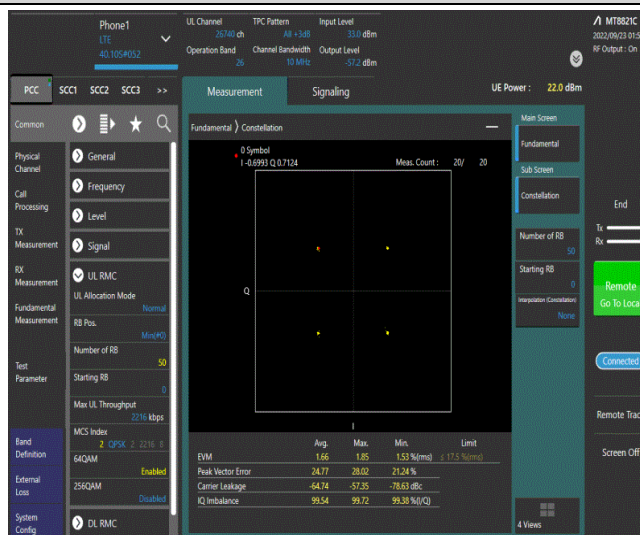
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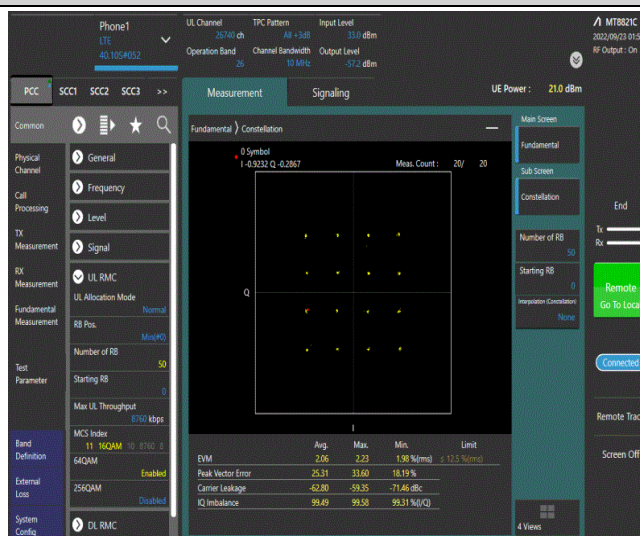
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Test Graphs

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



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



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6dB 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	1.085	1.23	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.086	1.23	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.086	1.23	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.092	1.24	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.091	1.24	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.092	1.24	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.699	2.97	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.7	2.97	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.694	2.98	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.689	2.98	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.692	2.99	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.691	2.99	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.473	4.89	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.473	4.89	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.477	4.89	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.47	4.90	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.468	4.91	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.473	4.91	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.934	9.66	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.914	9.62	PASS



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Test Graphs

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



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



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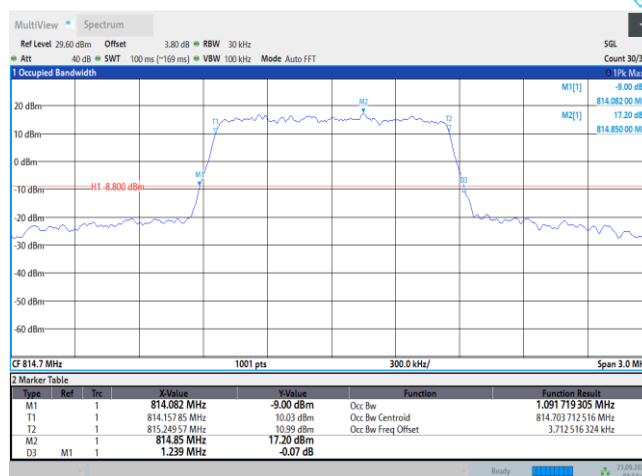
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Band26-1.4MHz-QPSK-26783-6RB#0



04:56:09 23.09.2022

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



04:54:43 23.09.2022



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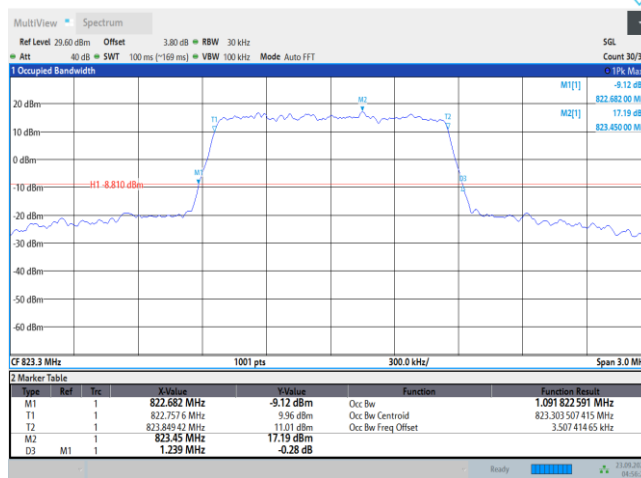
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04:56:26 23.09.2022



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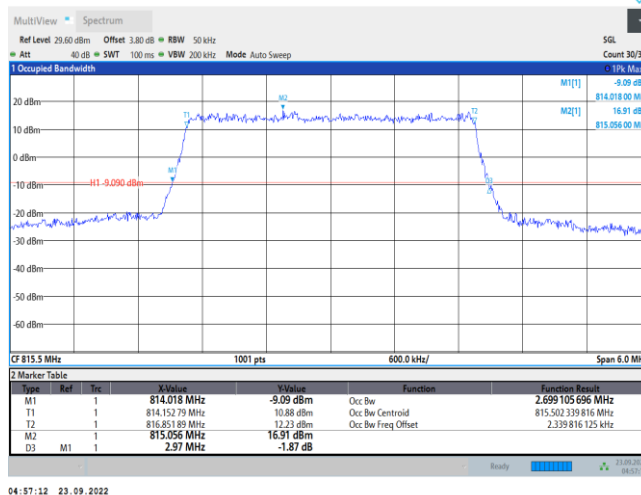
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Band26-3MHz-QPSK-26705-15RB#0



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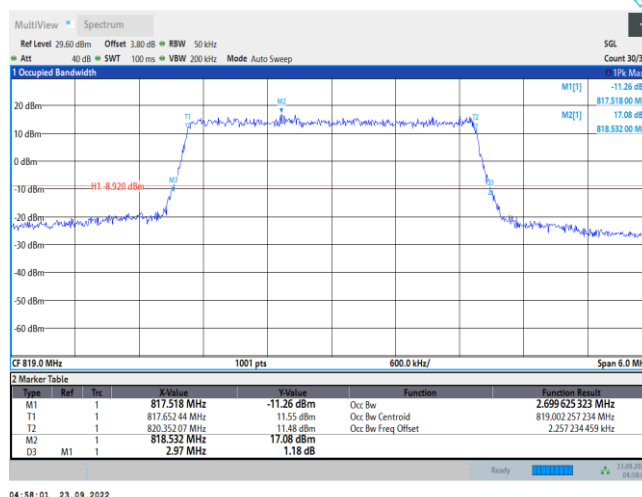
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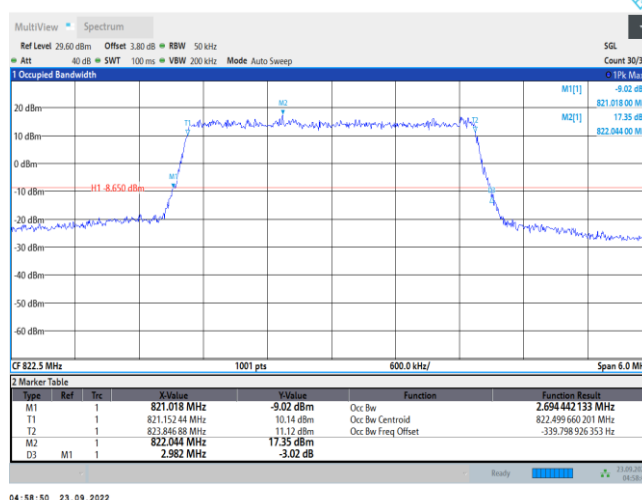
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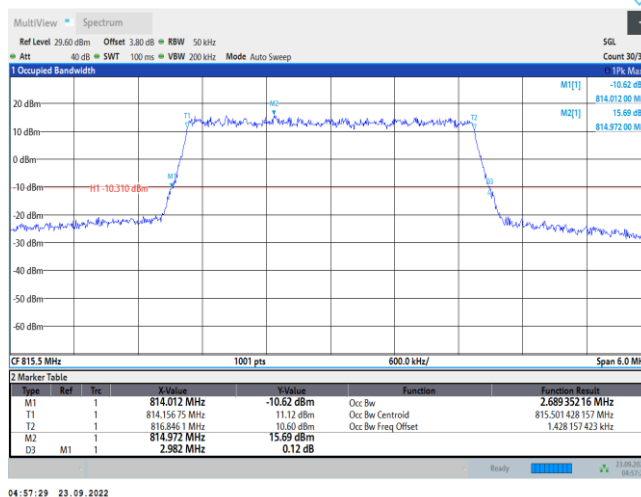
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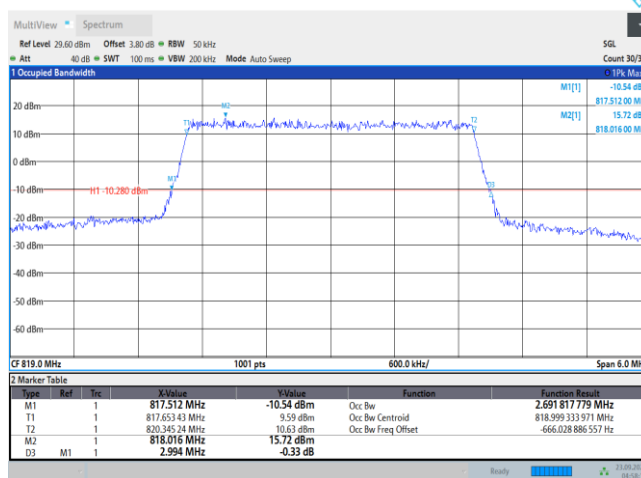
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Band26-3MHz-16QAM-26740-15RB#0



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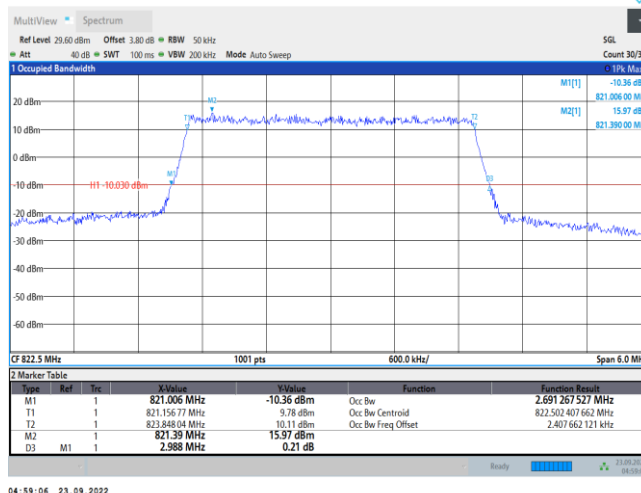
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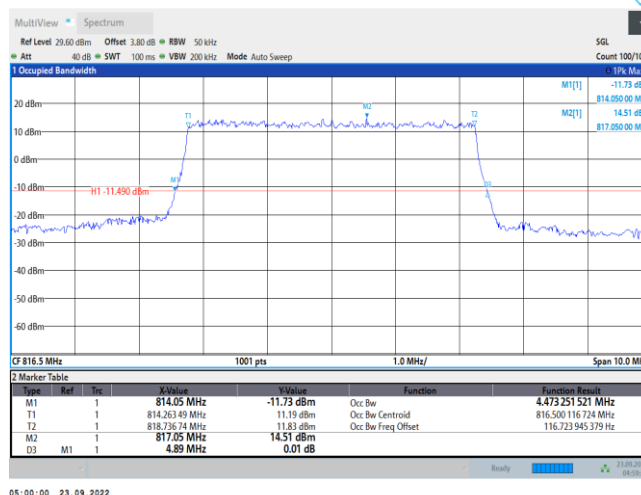
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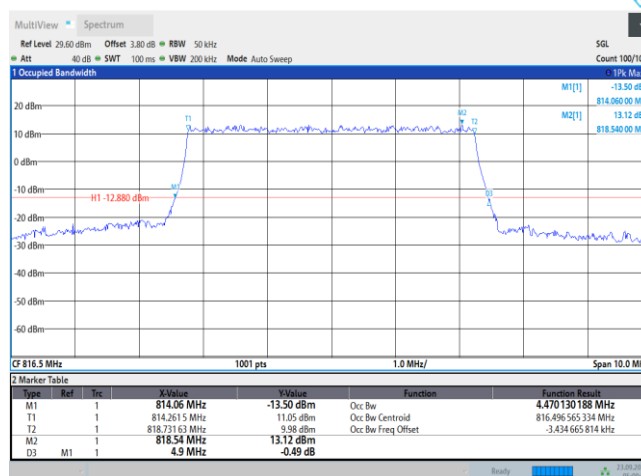
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Band26-5MHz-16QAM-26715-25RB#0



05:00:23 23.09.2022



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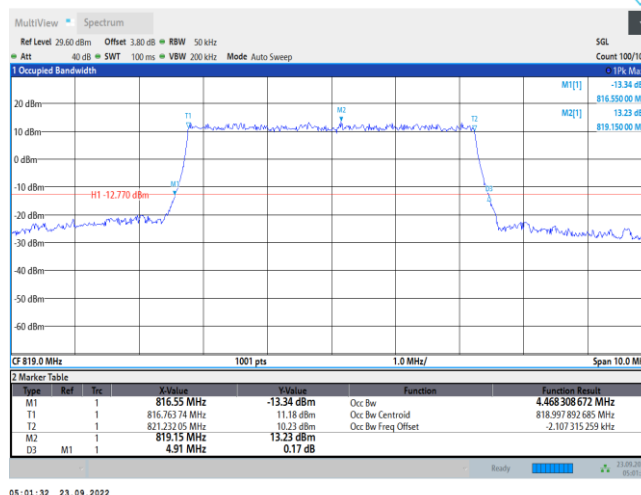
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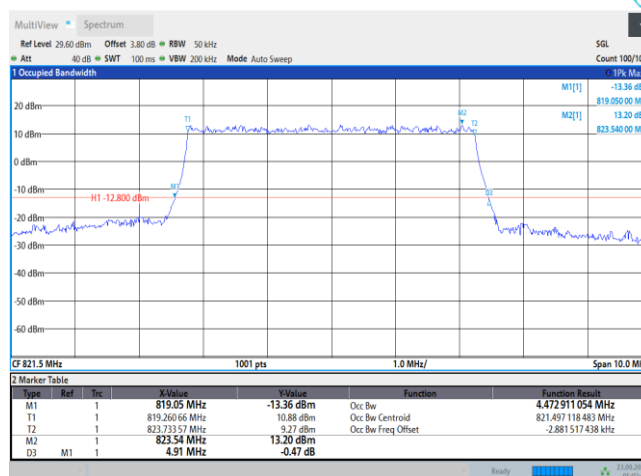
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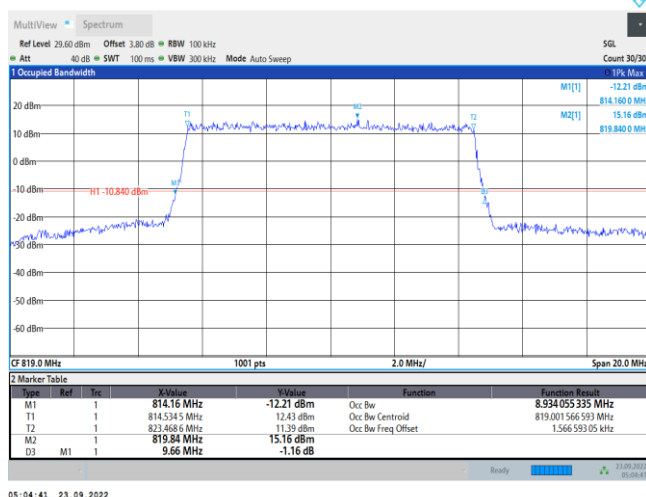
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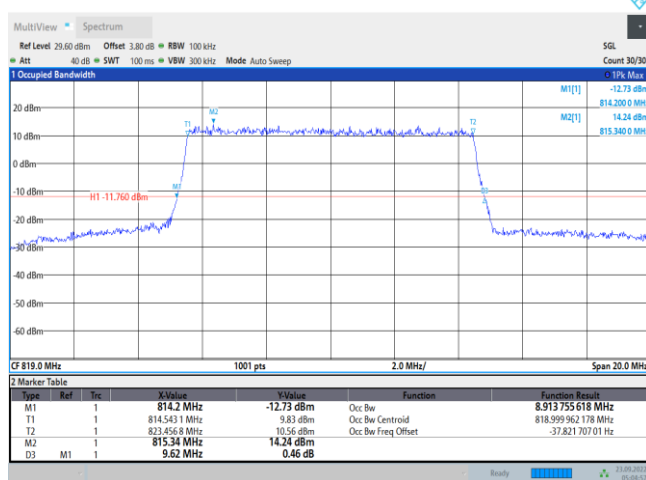
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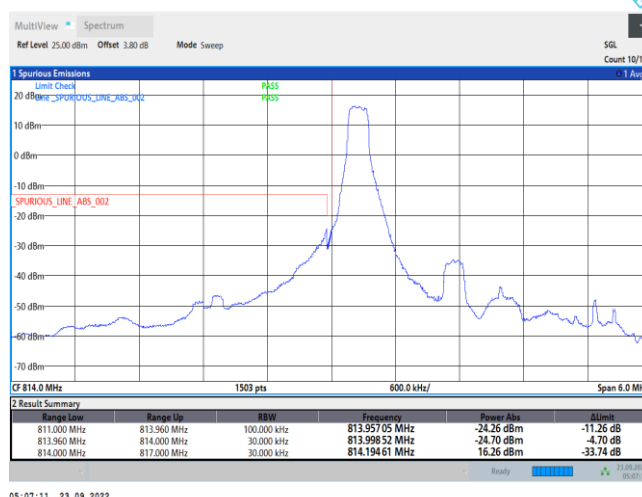
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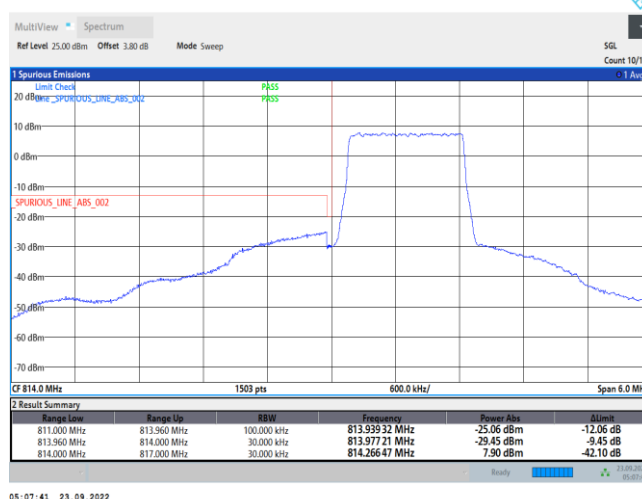
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Test Graphs

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



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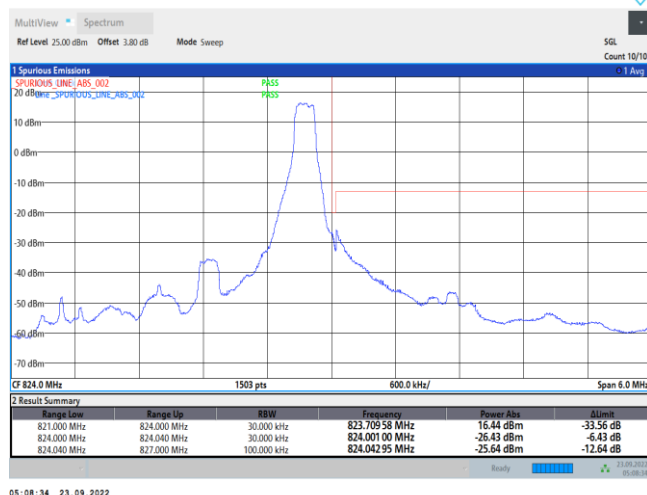
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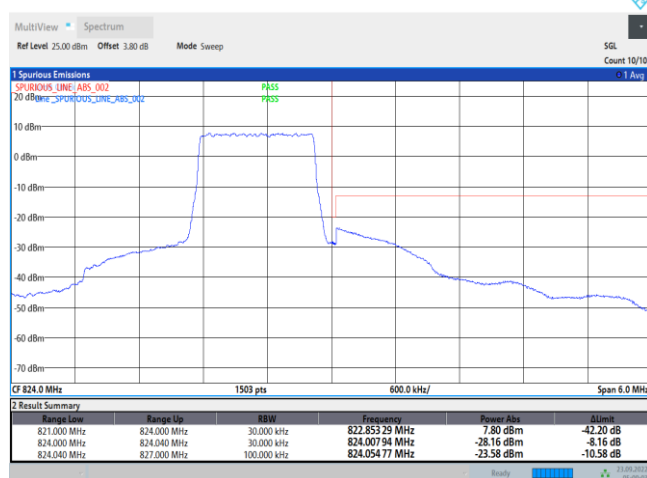
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05:08:34 23.09.2022

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



05:09:04 23.09.2022



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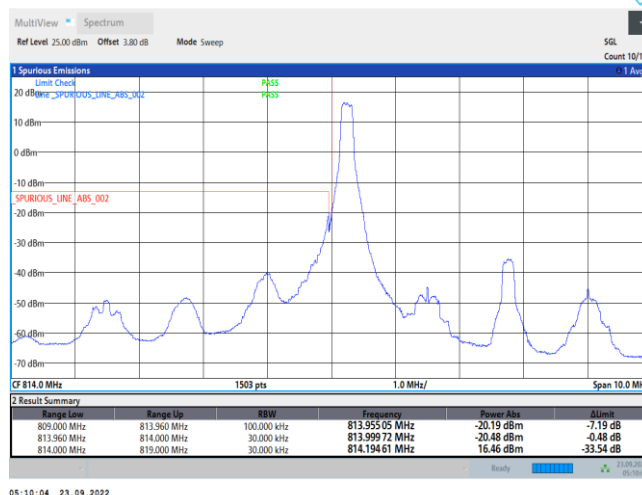
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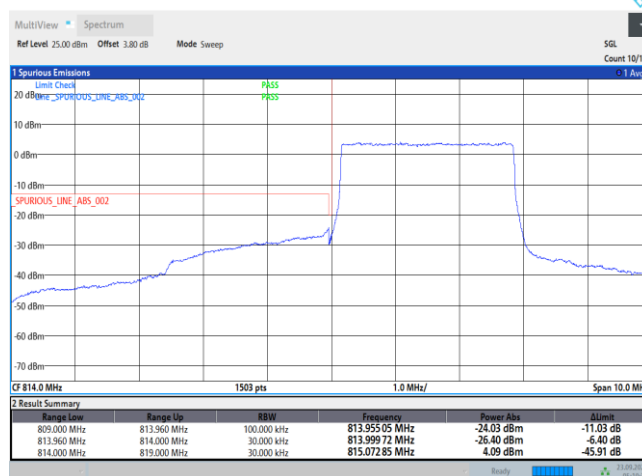
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Band26-3MHz-QPSK-26705-1RB#0



05:10:04 23.09.2022

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



05:10:39 23.09.2022



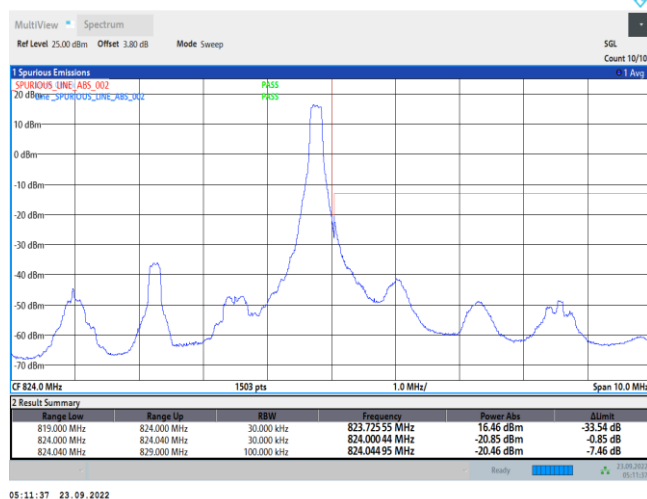
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Band26-3MHz-QPSK-26775-1RB#14



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



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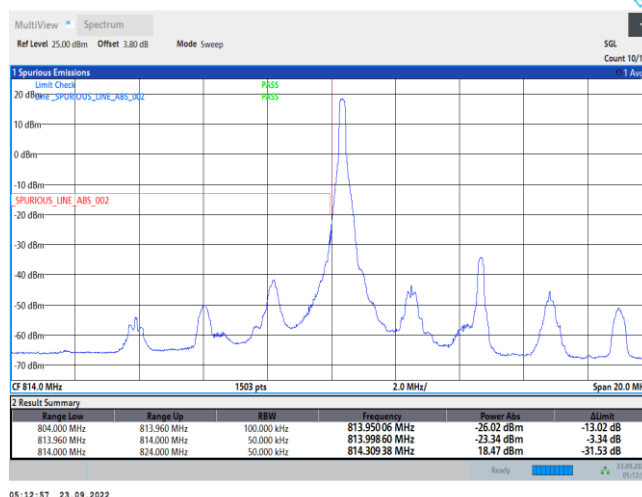
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Band26-5MHz-QPSK-26715-1RB#0



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



05:13:26 23.09.2022



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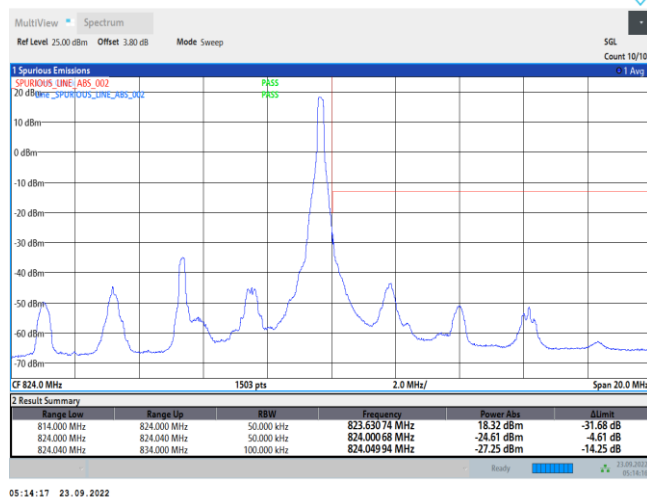
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Band26-5MHz-QPSK-26765-1RB#24



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



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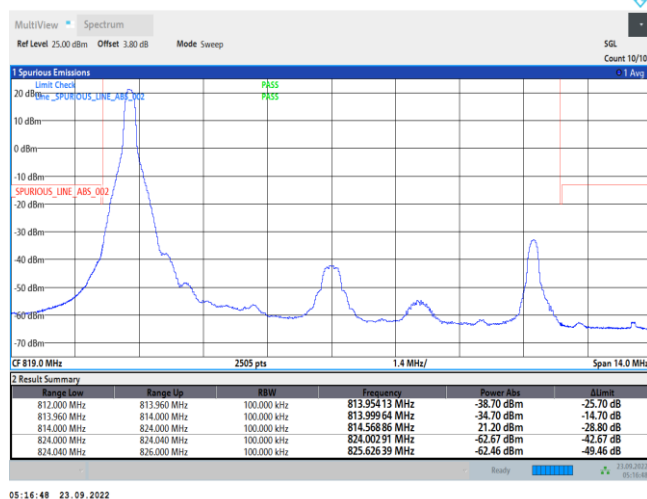
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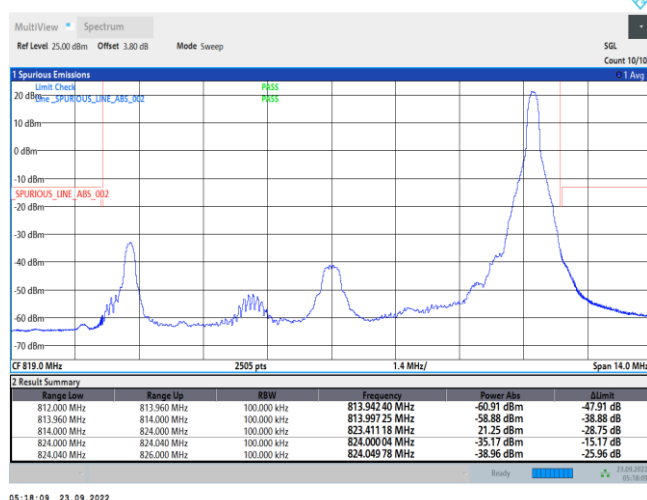
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Band26-10MHz-QPSK-26740-1RB#0



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



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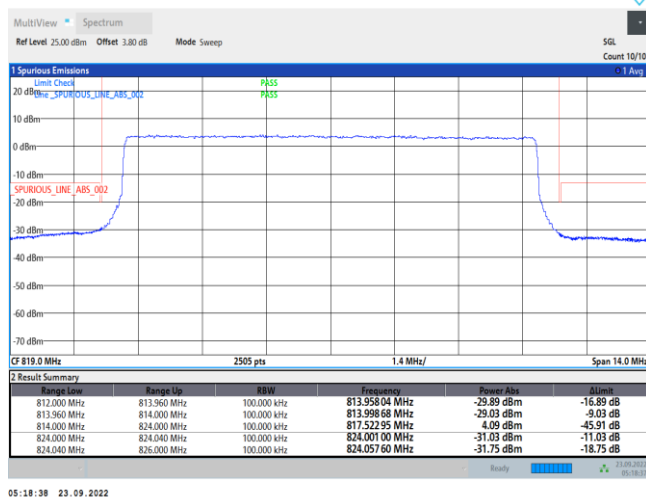
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Band26-10MHz-QPSK-26740-50RB#0



05:18:38 23.09.2022



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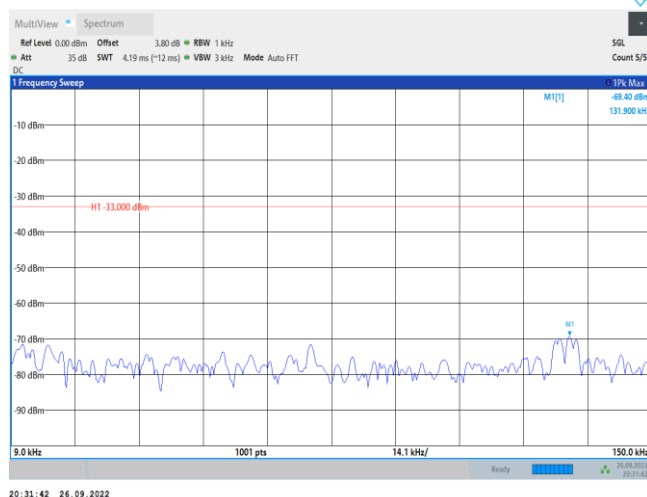
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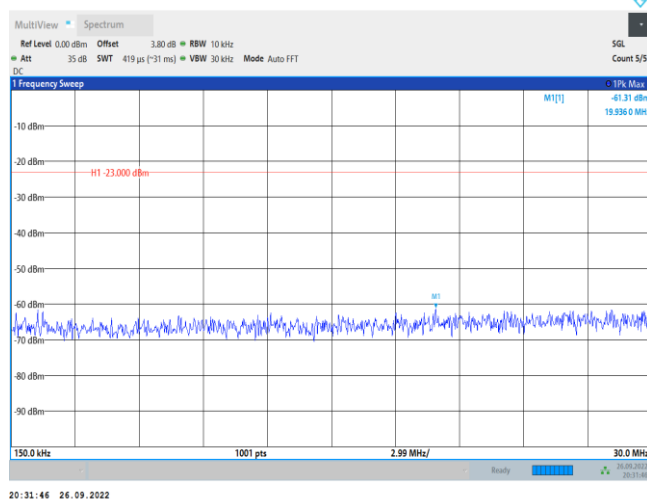
Conducted Spurious Emission

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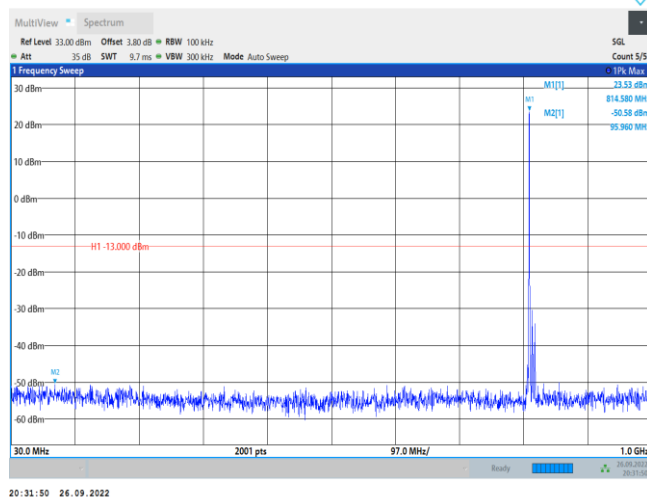
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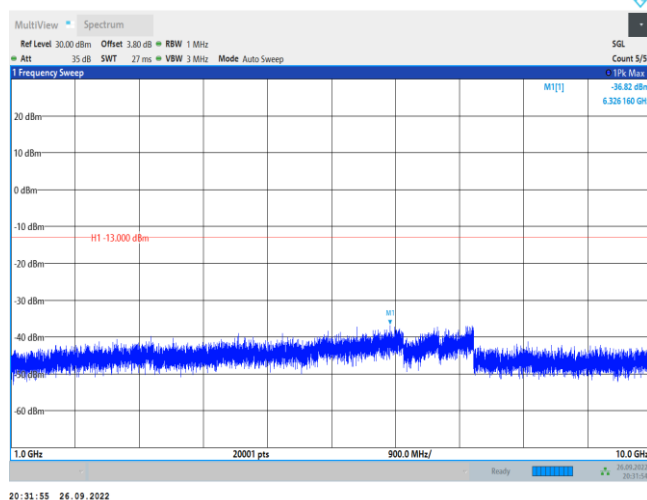
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Band26-10MHz-QPSK-26740-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band26_90S_TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.1800	66.10	-48.24	25.36	-52.04	-13.00	39.04	214	284	Horizontal
2	2443.7700	51.63	-47.37	27.59	-63.42	-13.00	50.42	185	323	Horizontal
3	3258.3600	49.58	-46.52	29.61	-62.59	-13.00	49.59	145	231	Horizontal
4	4072.9500	48.22	-45.98	30.91	-62.11	-13.00	49.11	126	58	Horizontal
5	4887.5400	48.35	-45.59	32.57	-59.93	-13.00	46.93	133	231	Horizontal
6	5702.1300	47.09	-44.57	33.39	-59.35	-13.00	46.35	269	151	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	1629.1429	65.76	-48.25	25.36	-52.38	-13.00	39.38	254	26	Vertical
2	2443.7700	50.95	-47.37	27.59	-64.10	-13.00	51.10	163	40	Vertical
3	3258.3600	50.58	-46.52	29.61	-61.59	-13.00	48.59	256	92	Vertical
4	4072.9500	48.42	-45.98	30.91	-61.91	-13.00	48.91	132	198	Vertical
5	4887.5400	49.37	-45.59	32.57	-58.91	-13.00	45.91	188	26	Vertical
6	5702.1300	47.58	-44.57	33.39	-58.86	-13.00	45.86	194	360	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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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-1.60	-0.001954	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-6.70	-0.008181	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-2.30	-0.002808	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-6.30	-0.007692	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-5.70	-0.006960	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-0.60	-0.000733	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-3.00	-0.003663	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-8.00	-0.009768	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-4.40	-0.005372	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-2.30	-0.002808	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-6.70	-0.008181	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-2.00	-0.002442	±2.5	PASS

---End of Attachment---



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