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Appendix B.16

LTE Band 26(814-824)



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Transmitter Conducted Power Output Test ResultAnt0

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.28	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.40	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.23	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.35	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.23	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.34	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.19	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.30	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.25	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.41	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.25	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.35	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.59	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.56	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.43	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.46	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.43	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.64	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.40	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.41	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.56	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.60	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.42	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.42	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.26	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.30	50.00	PASS



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Band26	3MHz	QPSK	26705	1RB#14	23.24	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.32	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.27	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.25	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.31	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.30	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.33	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.32	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.30	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.30	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.55	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.57	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.45	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.34	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.51	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.42	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.58	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.31	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.55	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.45	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.53	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.33	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.25	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.47	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.15	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.32	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.16	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.45	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.18	50.00	PASS



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Band26	5MHz	QPSK	26740	25RB#0	22.26	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.13	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.49	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.17	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.28	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.56	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.64	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.41	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.35	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.35	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.72	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.34	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.26	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.38	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.69	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.37	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.28	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.32	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.38	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.26	50.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.29	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.55	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.53	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.47	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.29	50.00	PASS



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Peak-to-Average Ratio(CCDF) Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	5.32	13	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	5.14	13	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	5.36	13	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	6.16	13	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	5.98	13	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	6.20	13	PASS
Band26	3MHz	QPSK	26705	15RB#0	5.22	13	PASS
Band26	3MHz	QPSK	26740	15RB#0	5.16	13	PASS
Band26	3MHz	QPSK	26775	15RB#0	5.44	13	PASS
Band26	3MHz	16QAM	26705	15RB#0	6.08	13	PASS
Band26	3MHz	16QAM	26740	15RB#0	6.02	13	PASS
Band26	3MHz	16QAM	26775	15RB#0	6.18	13	PASS
Band26	5MHz	QPSK	26715	25RB#0	5.22	13	PASS
Band26	5MHz	QPSK	26740	25RB#0	5.24	13	PASS
Band26	5MHz	QPSK	26765	25RB#0	5.36	13	PASS
Band26	5MHz	16QAM	26715	25RB#0	5.94	13	PASS
Band26	5MHz	16QAM	26740	25RB#0	5.98	13	PASS
Band26	5MHz	16QAM	26765	25RB#0	6.08	13	PASS
Band26	10MHz	QPSK	26740	50RB#0	5.38	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.08	13	PASS



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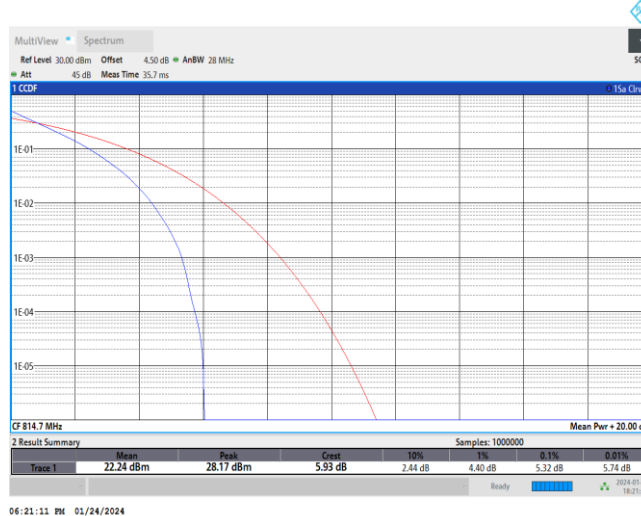
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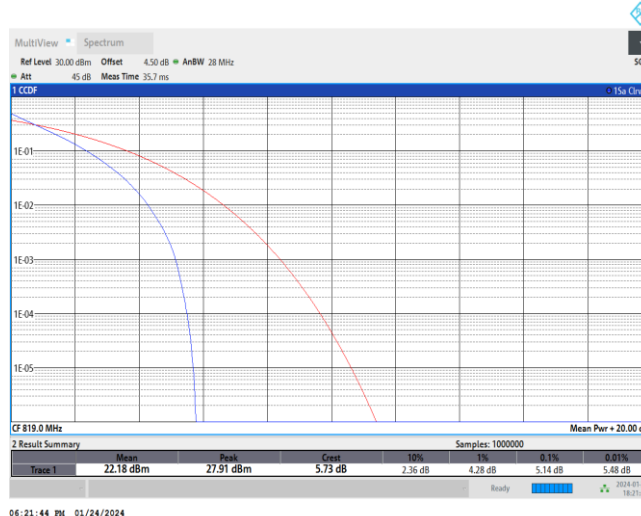
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Test Graphs

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



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



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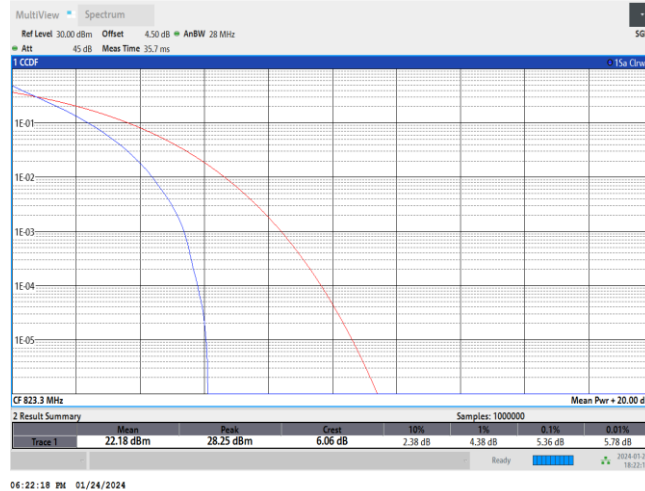
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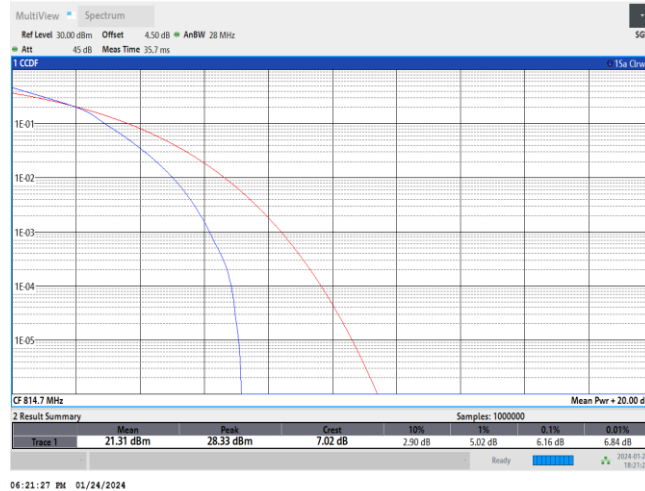
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Band26-1.4MHz-QPSK-26783-6RB#0



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



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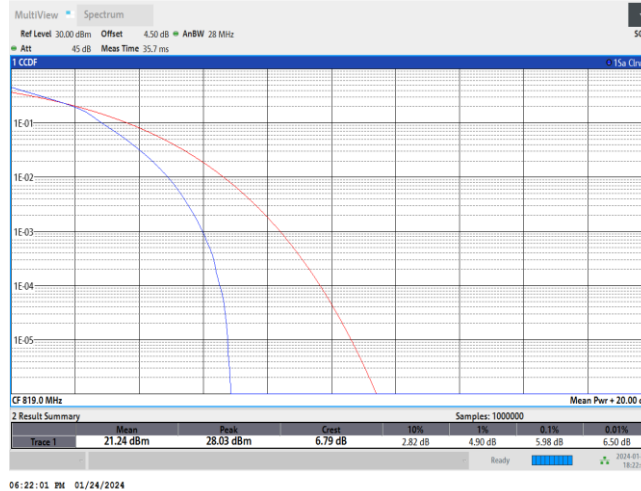
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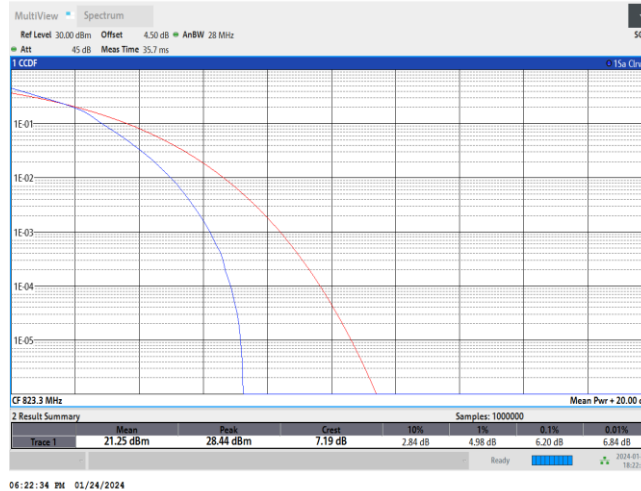
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Band26-1.4MHz-16QAM-26740-6RB#0



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



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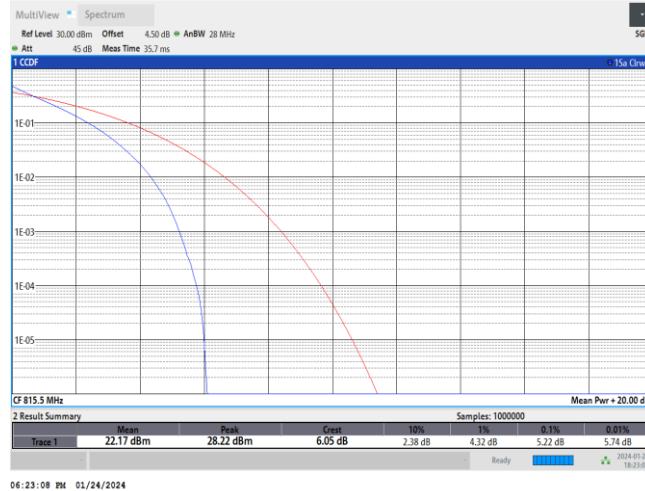
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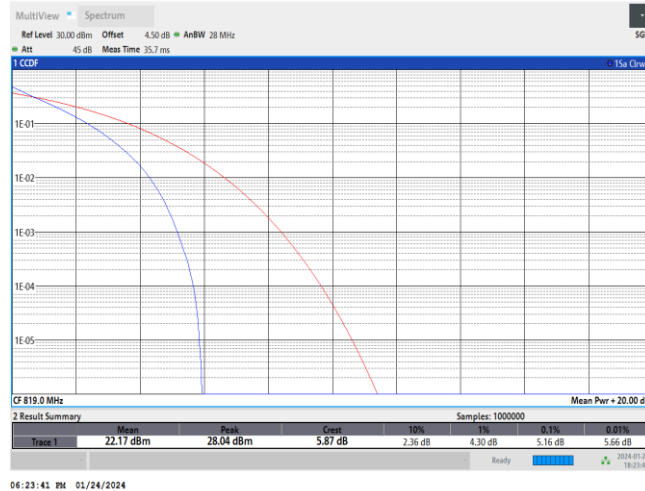
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Band26-3MHz-QPSK-26705-15RB#0



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



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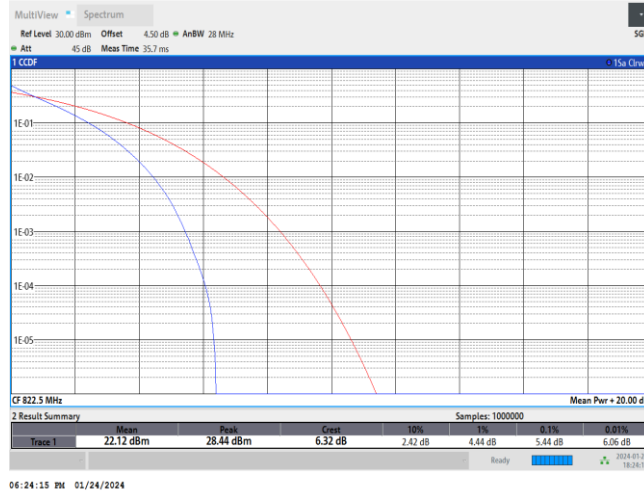
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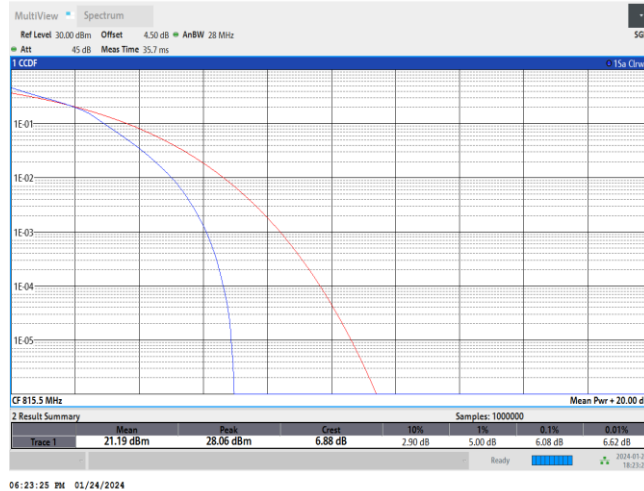
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Band26-3MHz-QPSK-26775-15RB#0



Band26-3MHz-16QAM-26705-15RB#0



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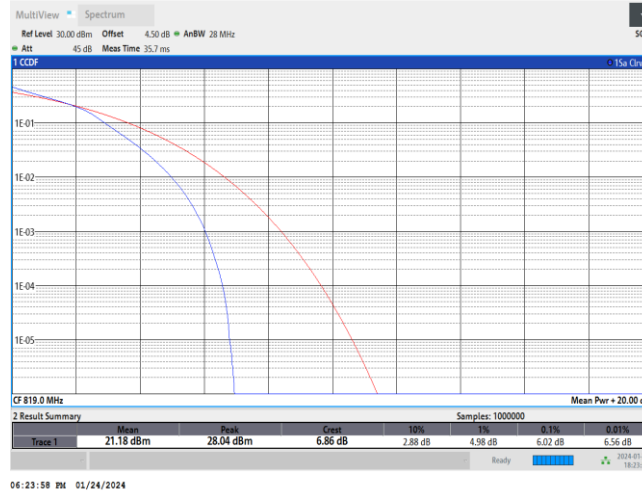
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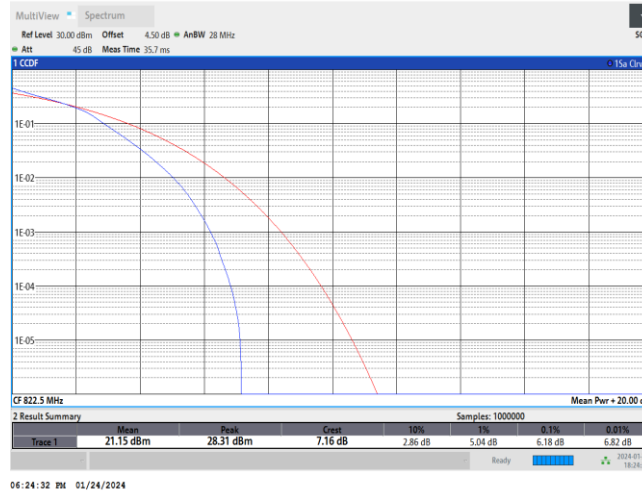
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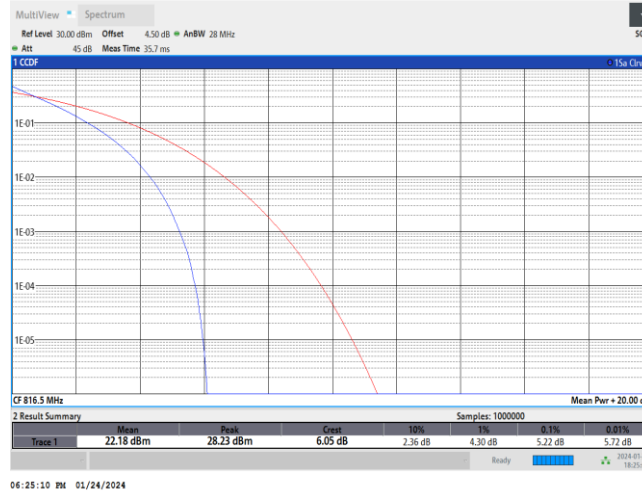
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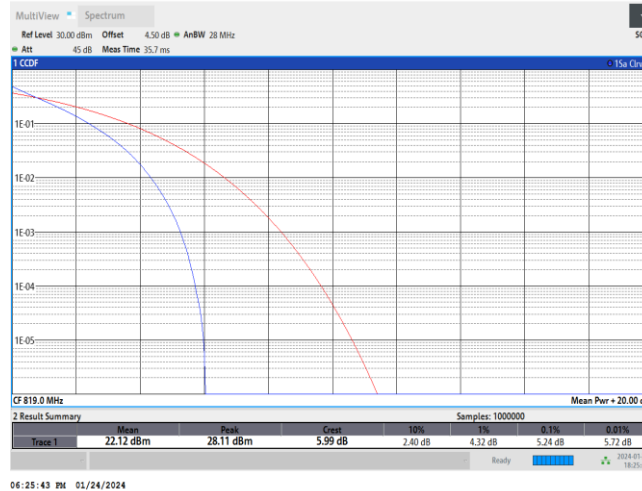
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Band26-5MHz-QPSK-26715-25RB#0



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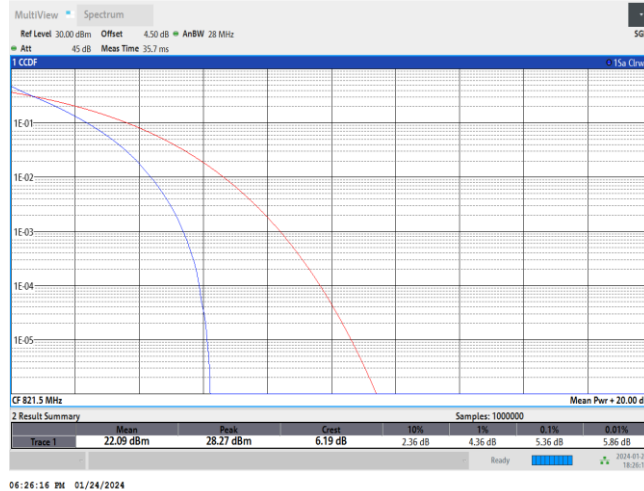
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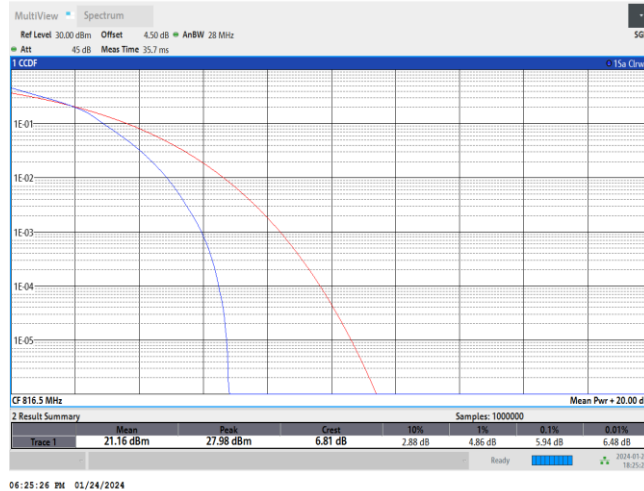
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Band26-5MHz-16QAM-26715-25RB#0



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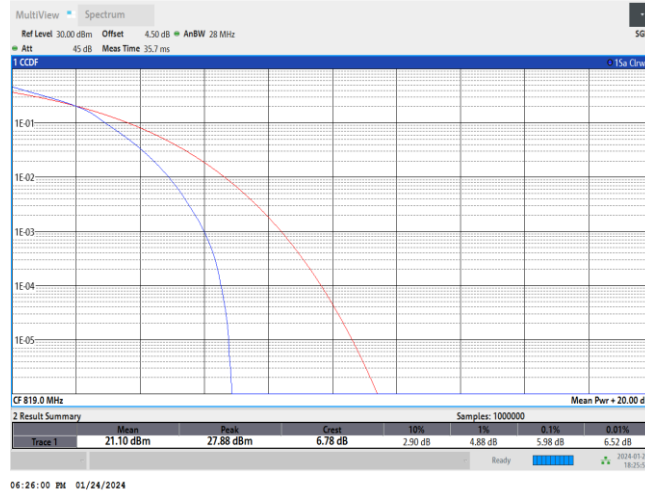
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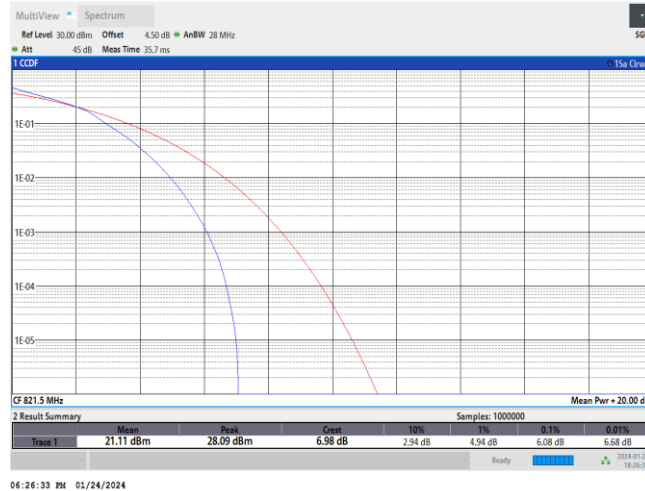
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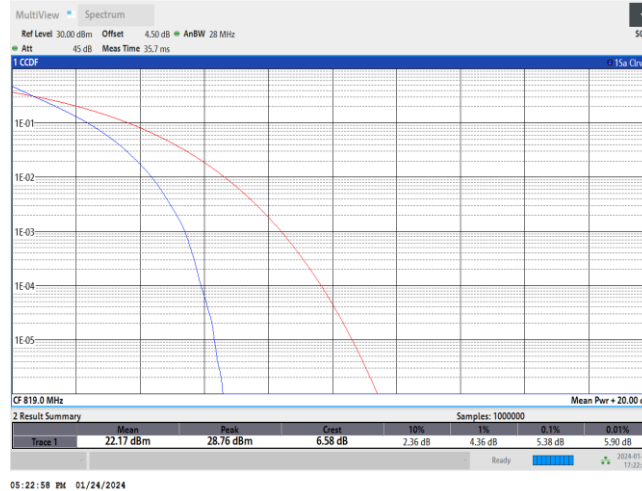
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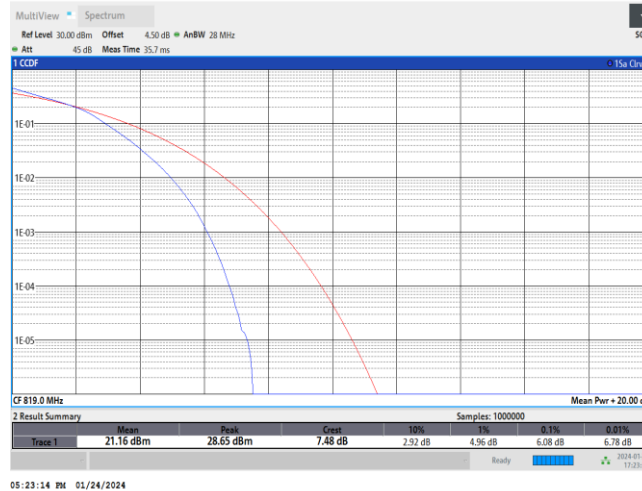
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Band26-10MHz-QPSK-26740-50RB#0



Band26-10MHz-16QAM-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	26740	6RB#0	1.085	1.28	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.097	1.30	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.687	2.92	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.677	2.91	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.466	4.82	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.466	4.82	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.935	9.58	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.909	9.56	PASS



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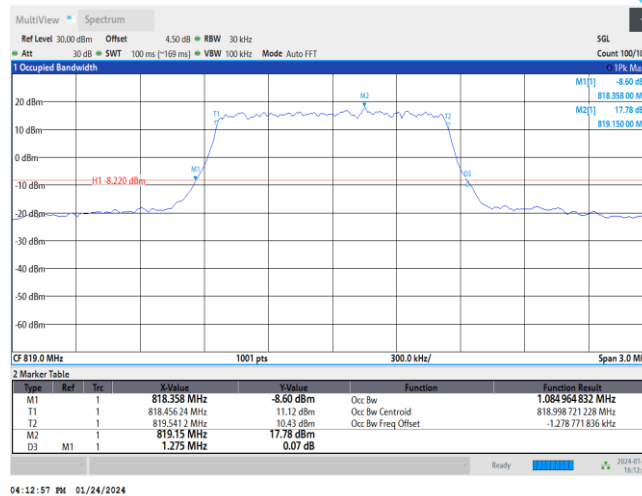
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Test Graphs

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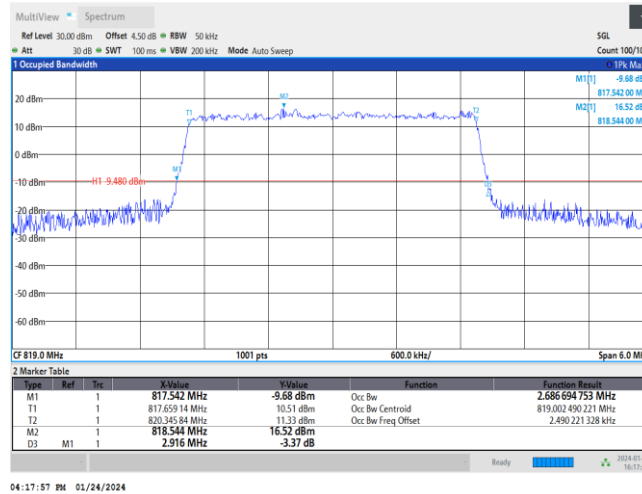
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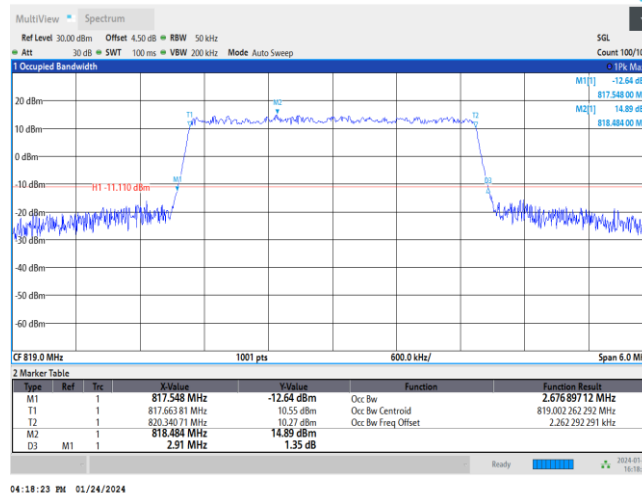
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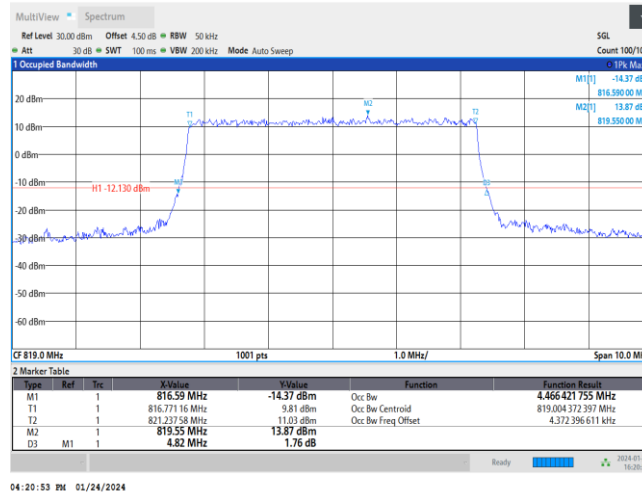
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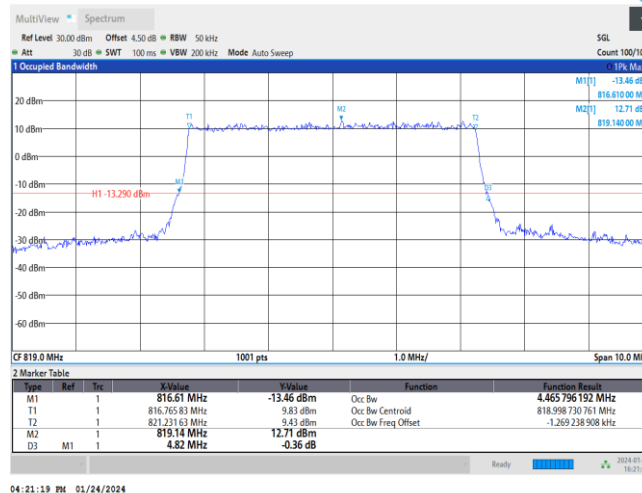
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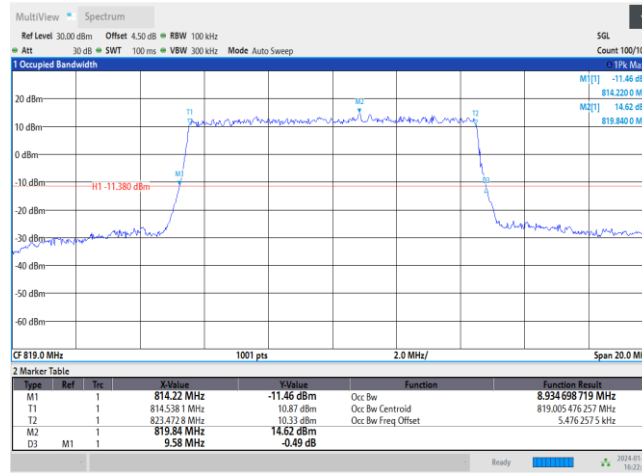
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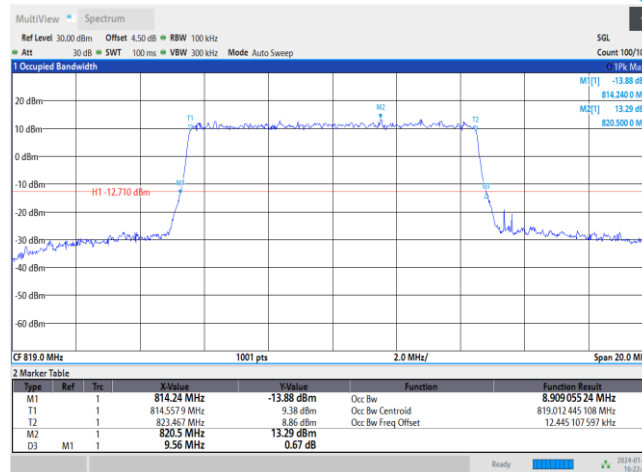
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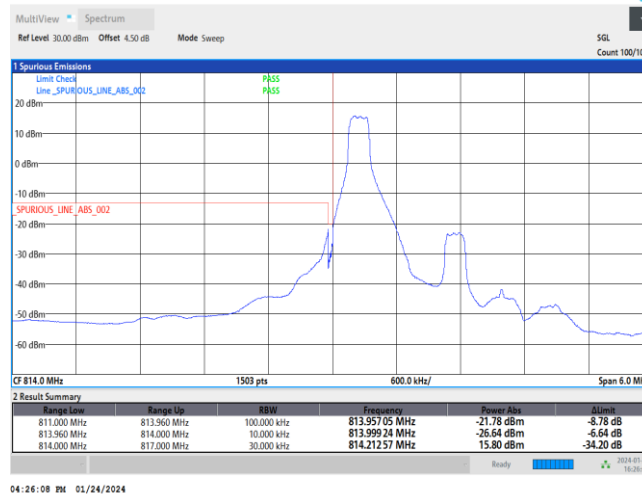
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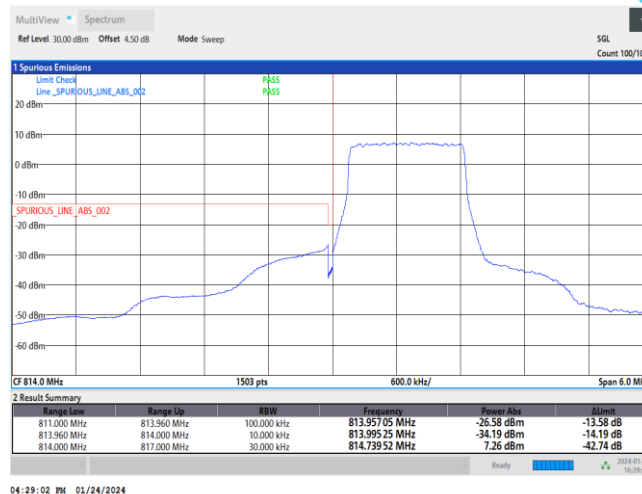
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Band Edge Test Graphs

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



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



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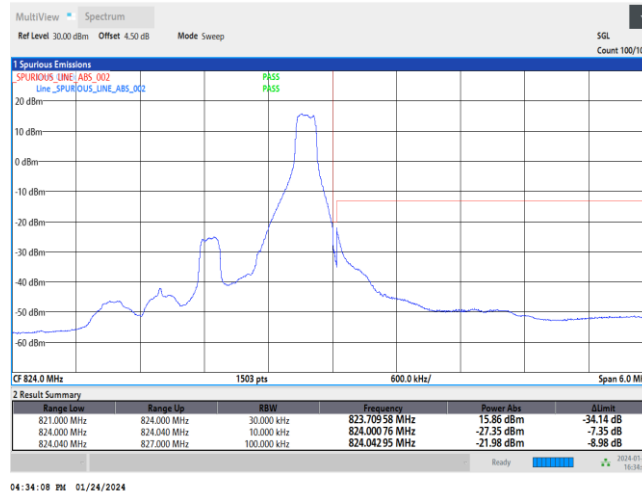
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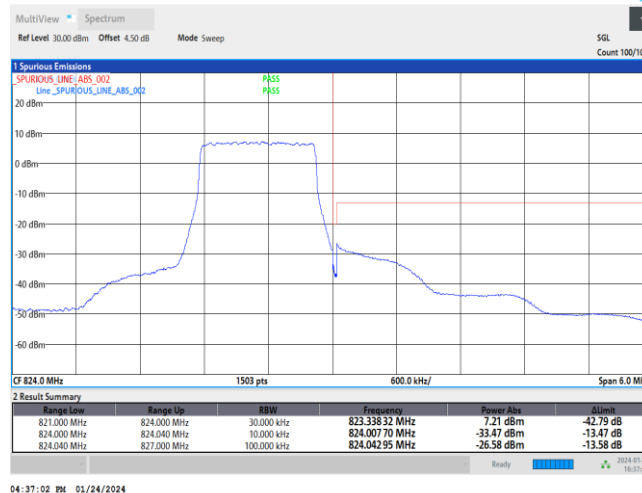
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Band26-1.4MHz-QPSK-26783-1RB#5



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



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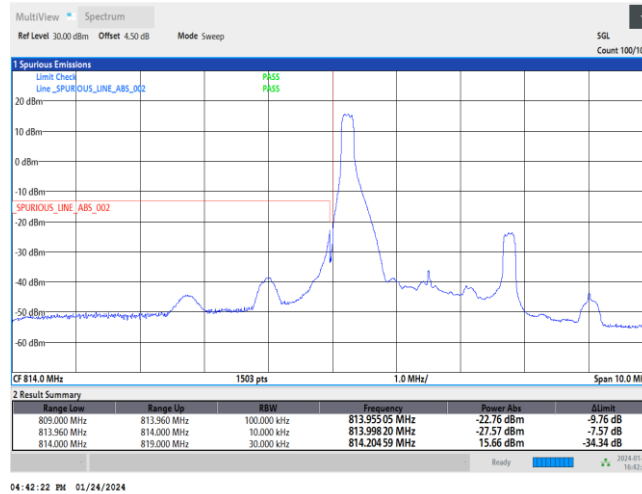
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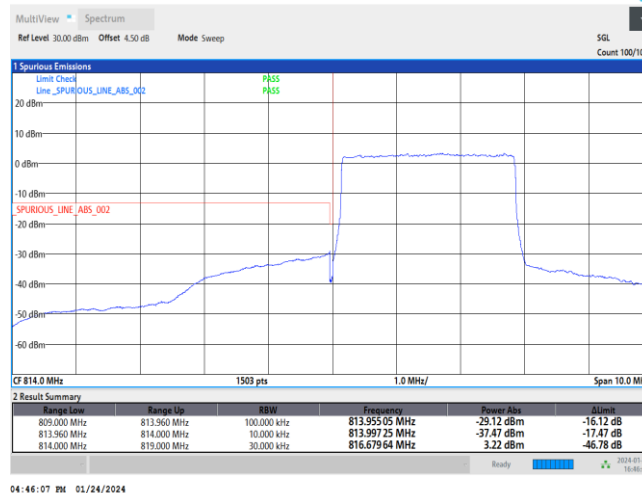
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Band26-3MHz-QPSK-26705-1RB#0



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



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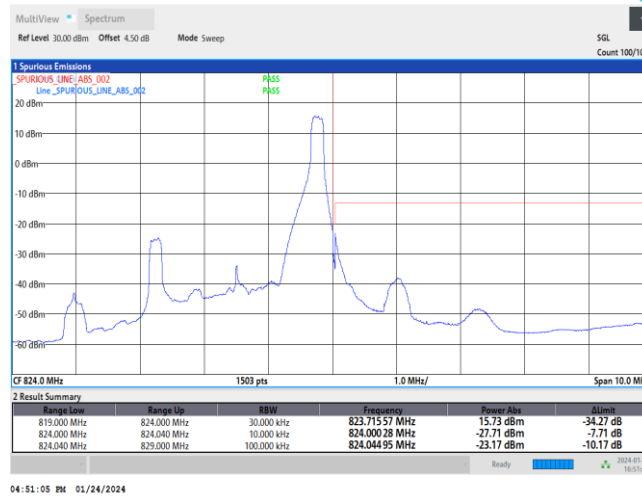
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Band26-3MHz-QPSK-26775-1RB#14



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



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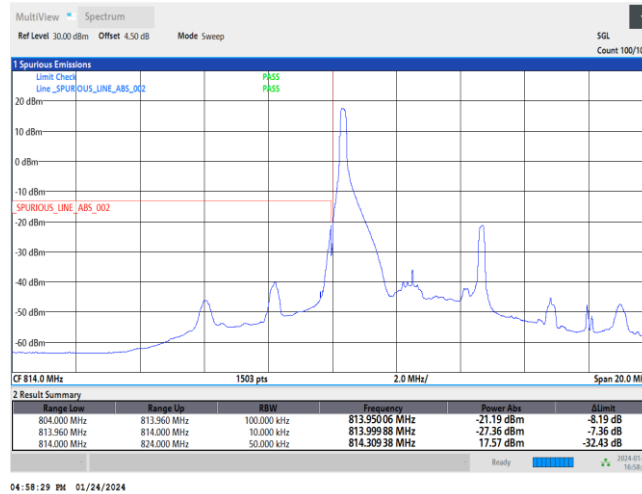
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Band26-5MHz-QPSK-26715-1RB#0



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



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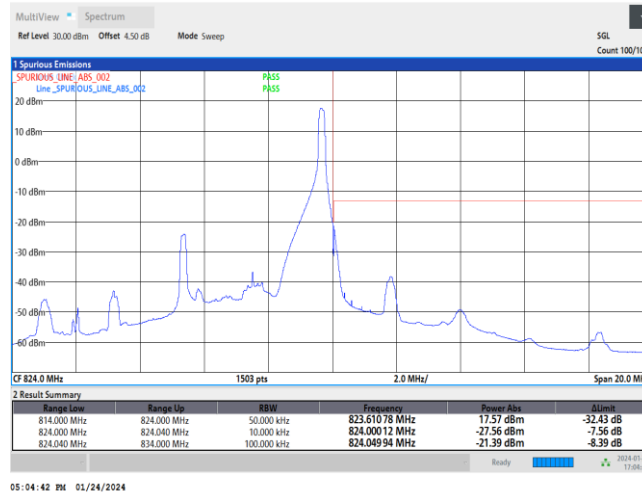
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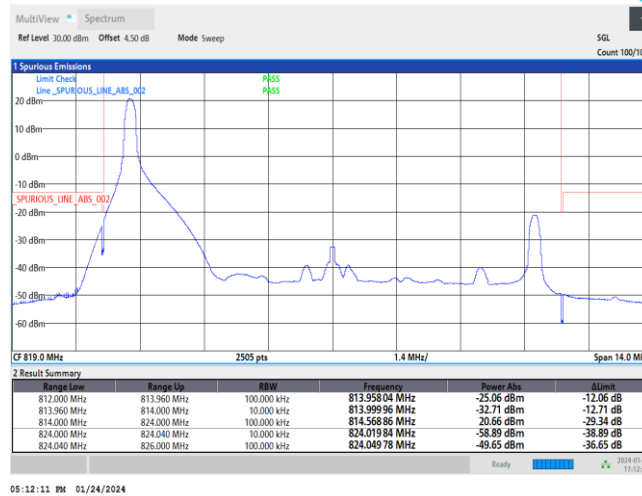
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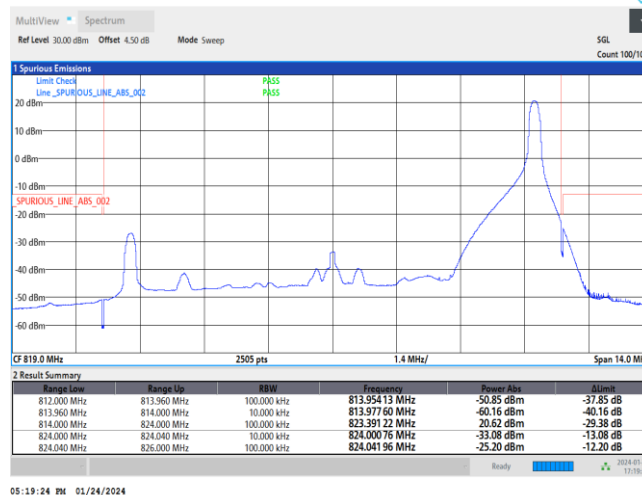
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Band26-10MHz-QPSK-26740-1RB#0



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



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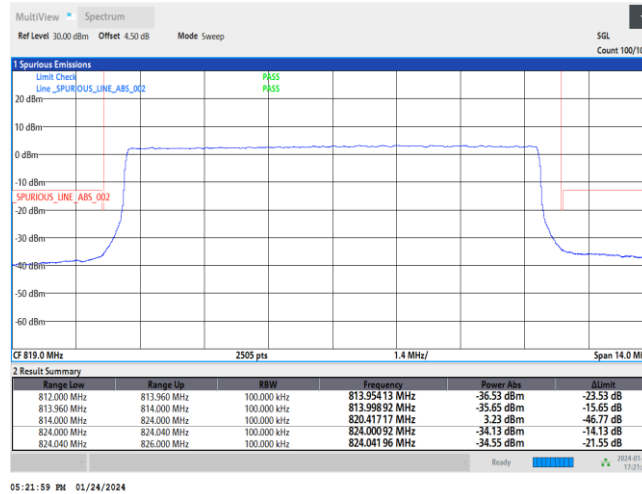
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Band26-10MHz-QPSK-26740-50RB#0



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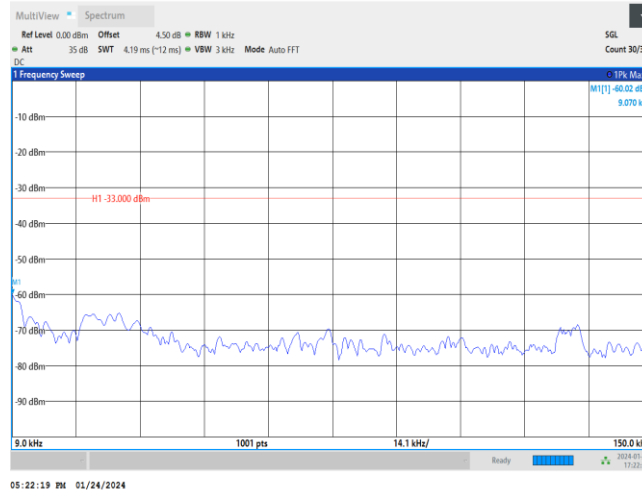
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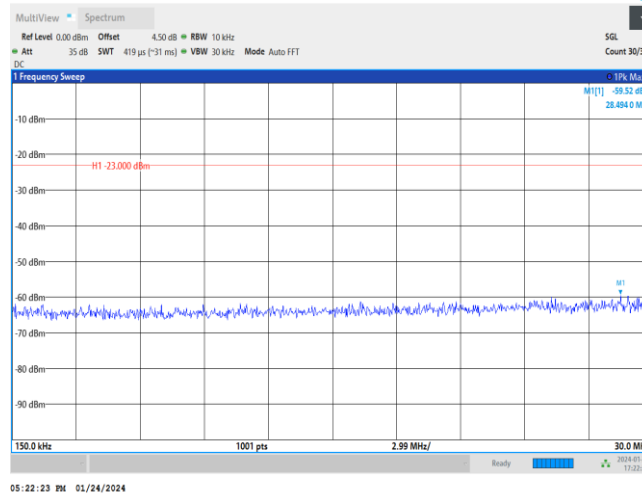
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Conducted Spurious Emission Test Graphs

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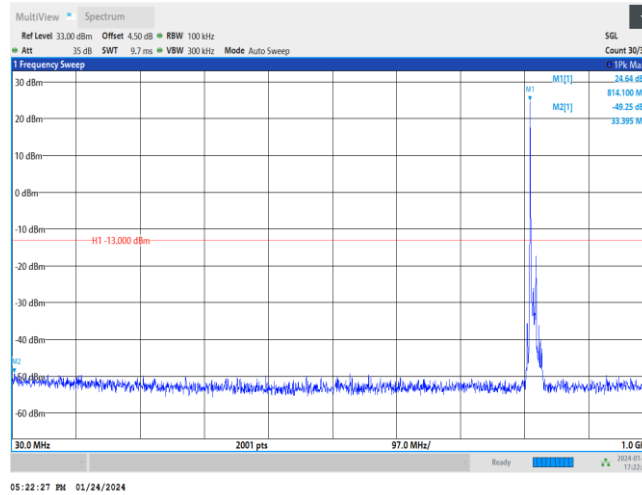
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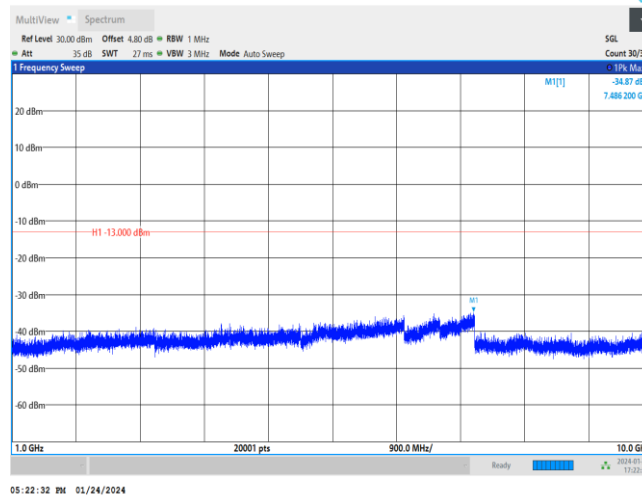
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Band26-10MHz-QPSK-26740-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_26(814-824) _TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629	57.18	-47.56	25.33	-60.31	-13.00	47.31	Horizontal
2	2444	62.77	-46.65	27.58	-51.56	-13.00	38.56	Horizontal
3	3932.5	46.77	-44.26	29.83	-62.92	-13.00	49.92	Horizontal
4	5524.5	51.15	-41.87	32.30	-53.68	-13.00	40.68	Horizontal
5	7408.5	44.42	-38.35	36.72	-52.47	-13.00	39.47	Horizontal
6	9914	41.94	-35.34	38.61	-50.05	-13.00	37.05	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629	57.22	-47.56	25.33	-60.27	-13.00	47.27	Vertical
2	2444	61.44	-46.65	27.58	-52.89	-13.00	39.89	Vertical
3	2612.5	58.94	-46.17	27.90	-54.59	-13.00	41.59	Vertical
4	3792	47.04	-45.12	29.77	-63.57	-13.00	50.57	Vertical
5	5524.5	51.67	-41.87	32.30	-53.16	-13.00	40.16	Vertical
6	7889	43.26	-37.52	36.57	-52.95	-13.00	39.95	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-8.30	-0.010134	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-8.20	-0.010012	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-7.70	-0.009402	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-9.20	-0.011233	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-2.10	-0.002564	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-5.80	-0.007082	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-10.10	-0.012332	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	0.00	0.000000	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-7.20	-0.008791	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-6.30	-0.007692	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-6.40	-0.007814	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-5.60	-0.006838	PASS

---End of Attachment---



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