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Appendix B.14

LTE Band 30



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.32	20.68	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.56	20.92	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.28	20.64	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.46	19.82	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.32	20.68	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.60	20.96	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.30	20.66	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.50	19.86	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.29	20.65	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.61	20.97	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.32	20.68	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.52	19.88	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.56	19.92	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.76	20.12	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.59	19.95	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.45	18.81	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.61	19.97	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.88	20.24	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.58	19.94	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.47	18.83	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.49	19.85	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.87	20.23	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.60	19.96	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.50	18.86	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.45	18.81	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.73	19.09	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.50	18.86	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.43	17.79	23.98	PASS



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中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元11层 邮编: 710086

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Band30	5MHz	64QAM	27710	1RB#0	20.46	18.82	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.68	19.04	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.50	18.86	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.46	17.82	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.47	18.83	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.80	19.16	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.51	18.87	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.47	17.83	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.36	20.72	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.47	20.83	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.39	20.75	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.50	19.86	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.56	19.92	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.64	20.00	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.70	20.06	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.45	18.81	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.51	18.87	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.65	19.01	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.57	18.93	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.43	17.79	23.98	PASS



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EIRP Density Result

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.52	20.88	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.71	21.07	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.66	21.02	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.62	20.98	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.81	21.17	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.78	21.14	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.72	21.08	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.95	21.31	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.84	21.20	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.67	21.03	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.00	21.36	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.94	21.30	23.98	PASS



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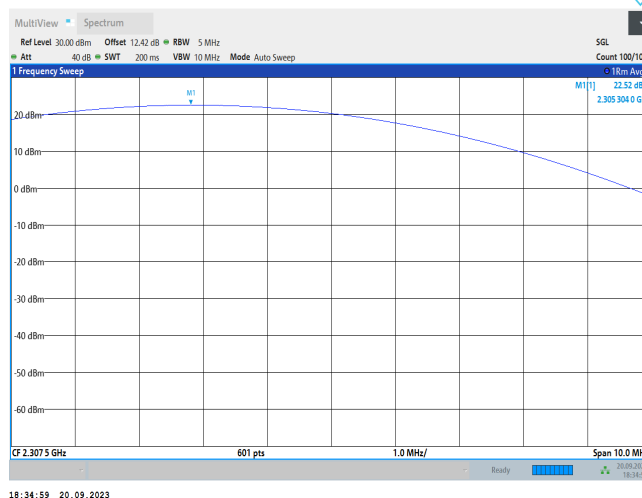
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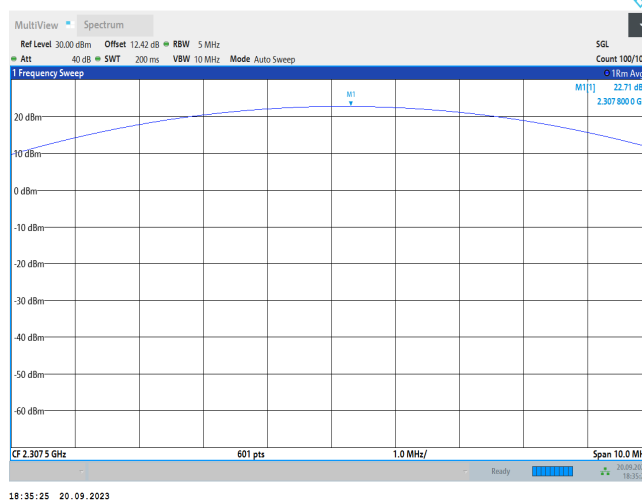
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Test plots

Band30-5MHz-QPSK-27685-1RB#0



Band30-5MHz-QPSK-27685-1RB#12



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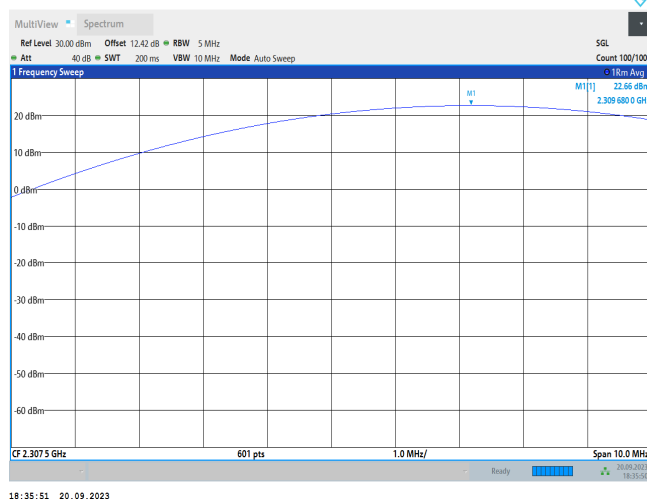
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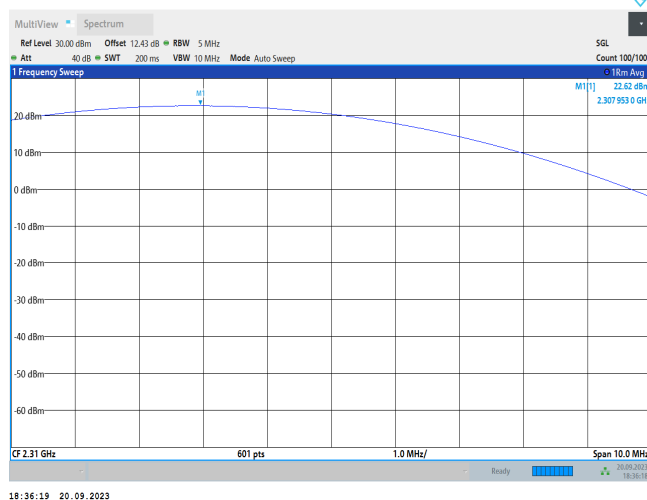
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Band30-5MHz-QPSK-27685-1RB#24



Band30-5MHz-QPSK -27710-1RB#0



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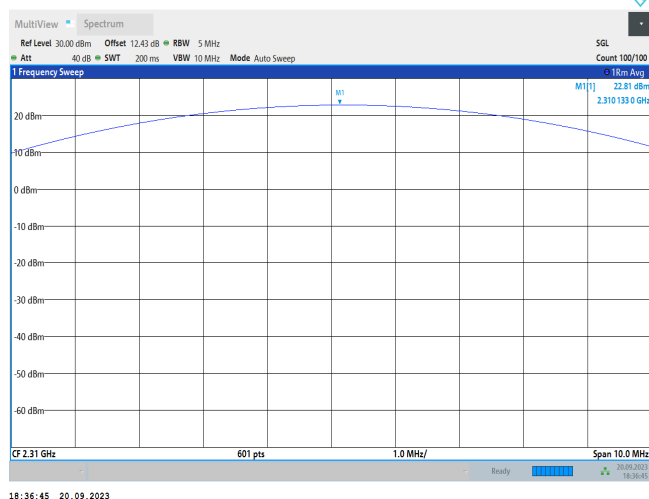
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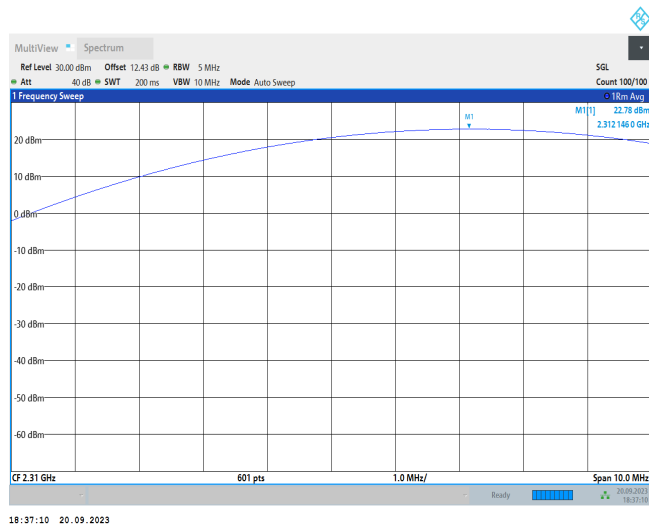
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Band30-5MHz-QPSK -27710-1RB#12



Band30-5MHz-QPSK -27710-1RB#24



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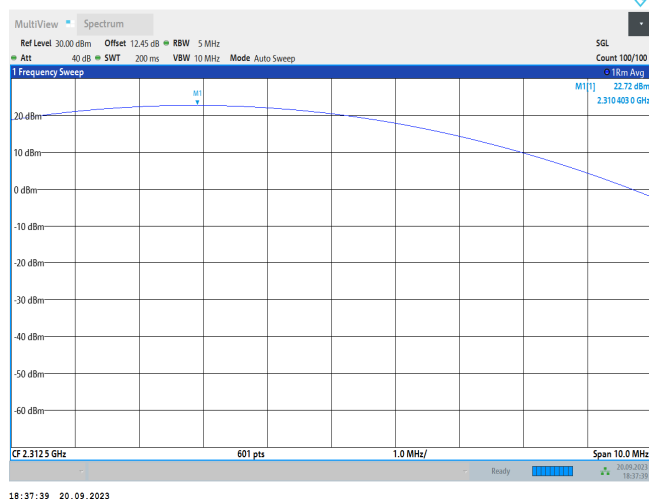
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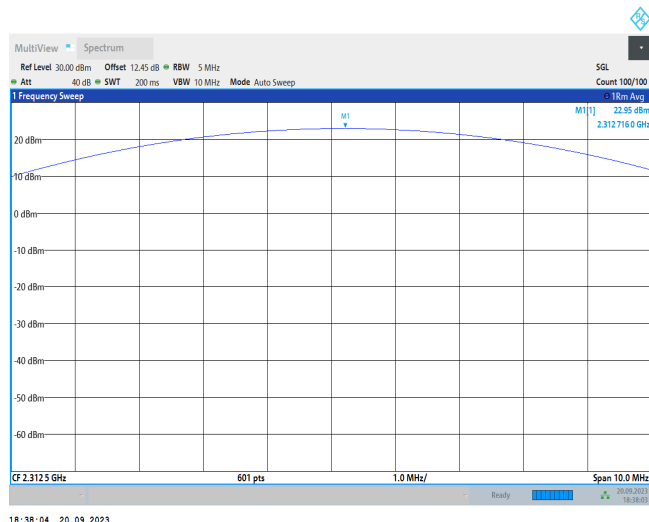
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Band30-5MHz-QPSK -27735-1RB#0



Band30-5MHz-QPSK-27735-1RB#12



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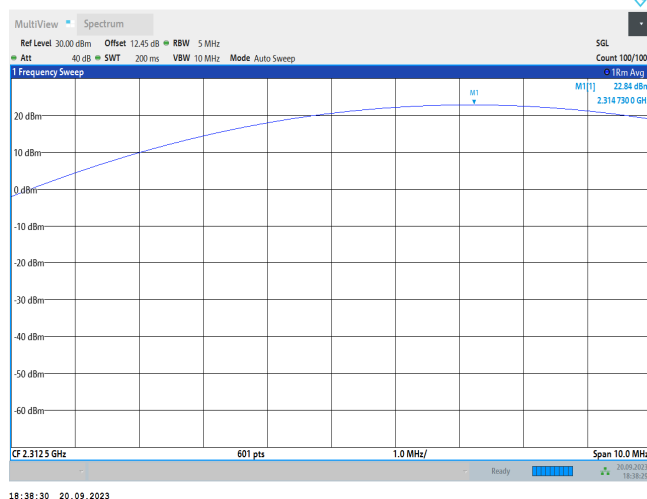
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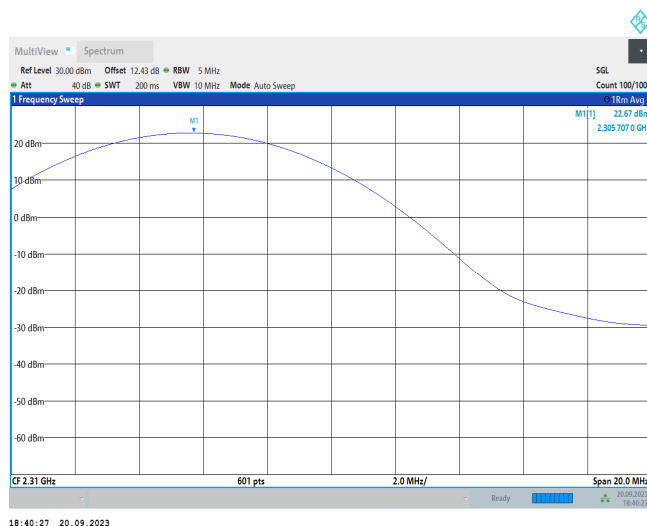
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Band30-5MHz-QPSK -27735-1RB#24



Band30-10MHz-QPSK-27710-1RB#0



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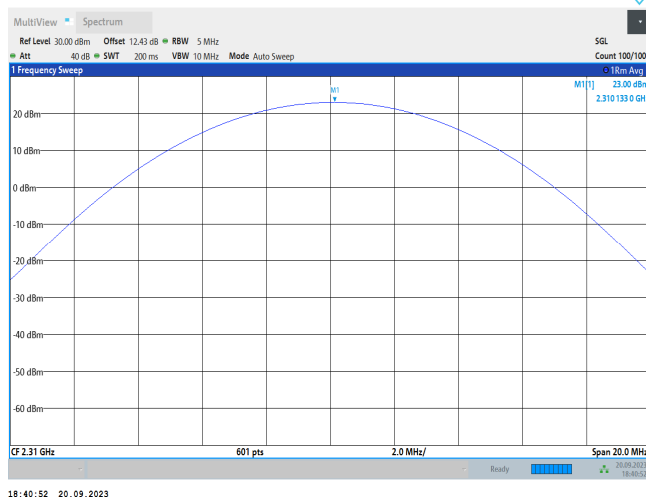
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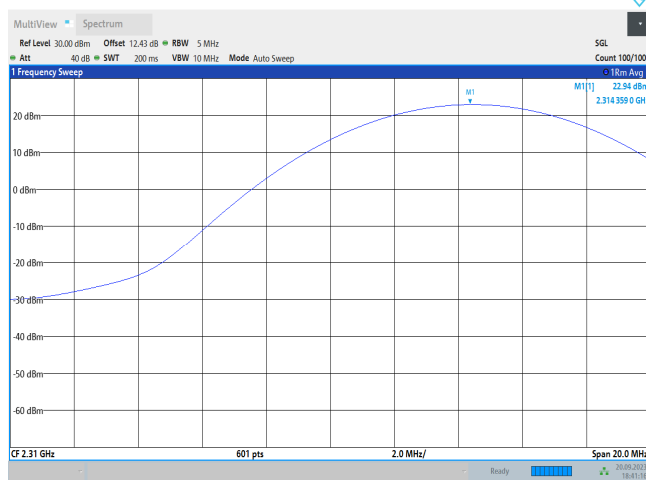
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18:40:52 20.09.2023

Band30-10MHz-QPSK-27710-1RB#49



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	2.52	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	3.78	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	2.78	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	3.88	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	2.84	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	4.22	13	PASS



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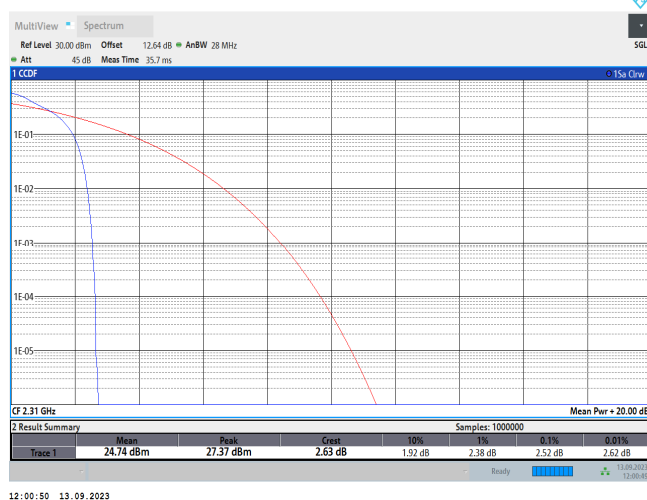
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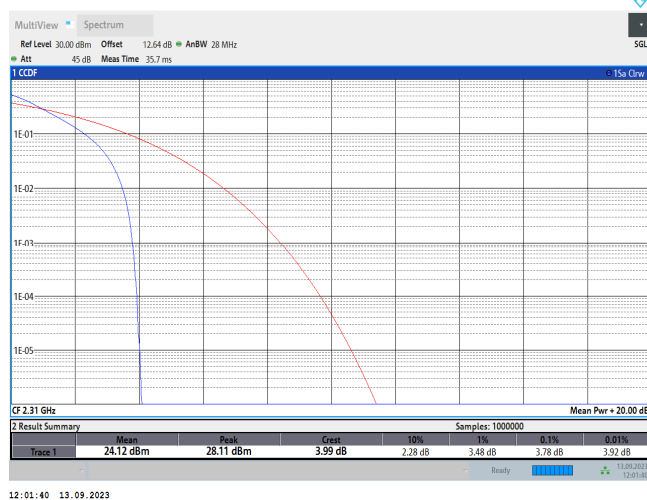
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Test Graphs

Band30-10MHz-QPSK-27710-1RB#0



Band30-10MHz-QPSK-27710-50RB#0



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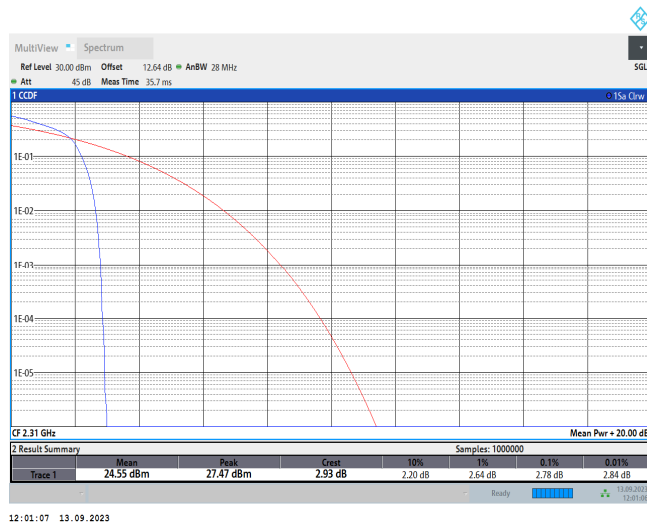


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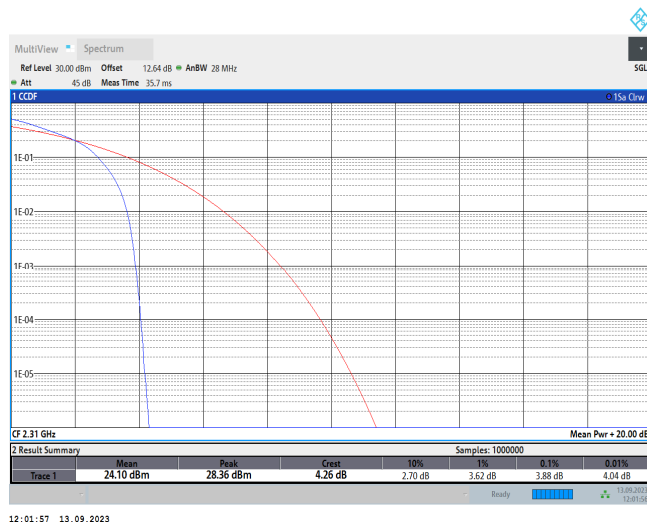
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Band30-10MHz-16QAM-27710-1RB#0



Band30-10MHz-16QAM-27710-50RB#0



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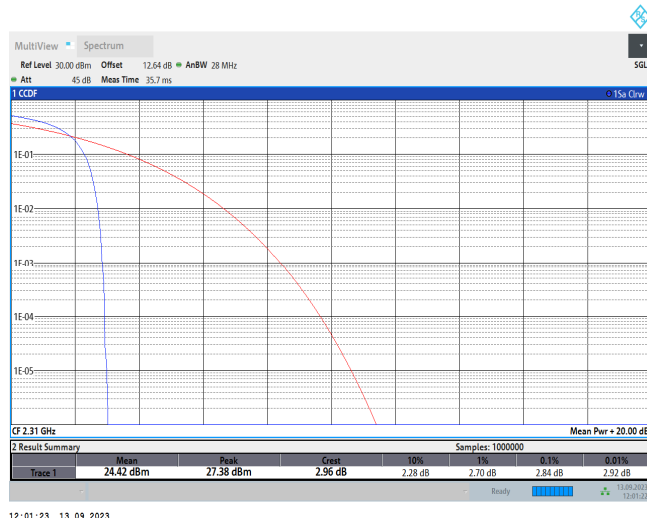
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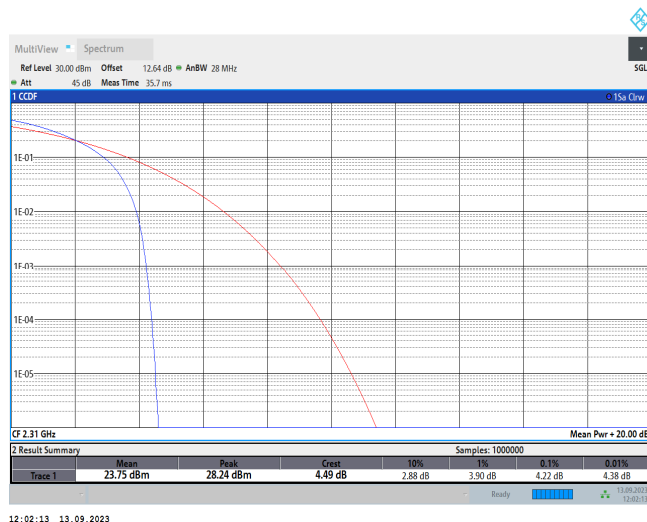
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Band30-10MHz-64QAM-27710-1RB#0



Band30-10MHz-64QAM-27710-50RB#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
Band30	5MHz	QPSK	27685	25RB#0	4.487	4.86	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.495	4.77	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.499	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.49	4.76	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.497	4.77	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.495	4.77	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.503	4.77	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.505	4.78	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.51	4.77	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.975	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.974	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.984	9.53	PASS



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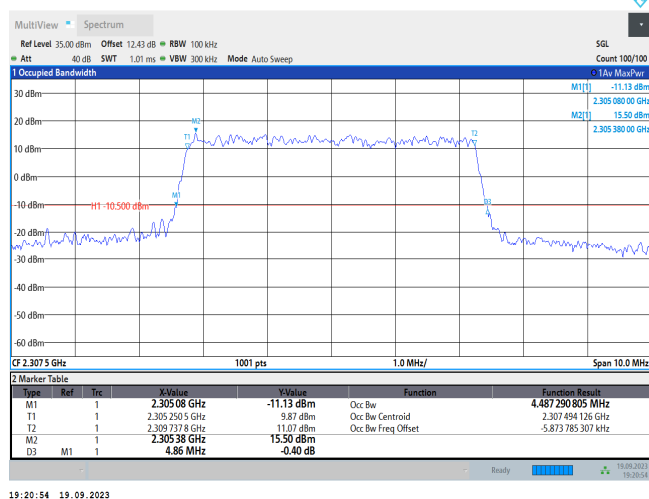
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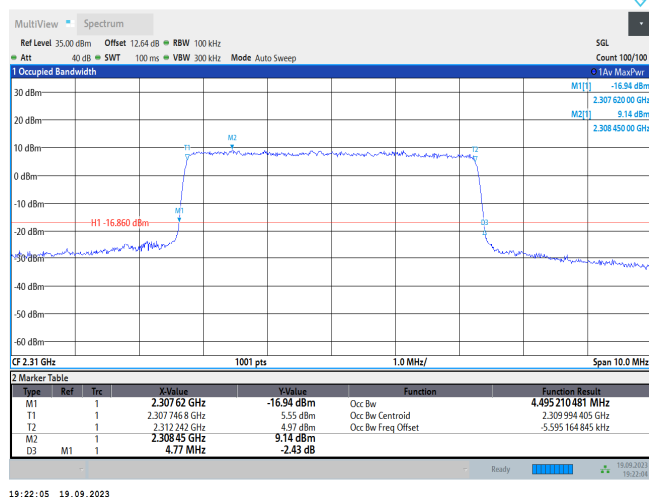
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Test Graphs

Band30-5MHz-QPSK-27685-25RB#0



Band30-5MHz-QPSK-27710-25RB#0

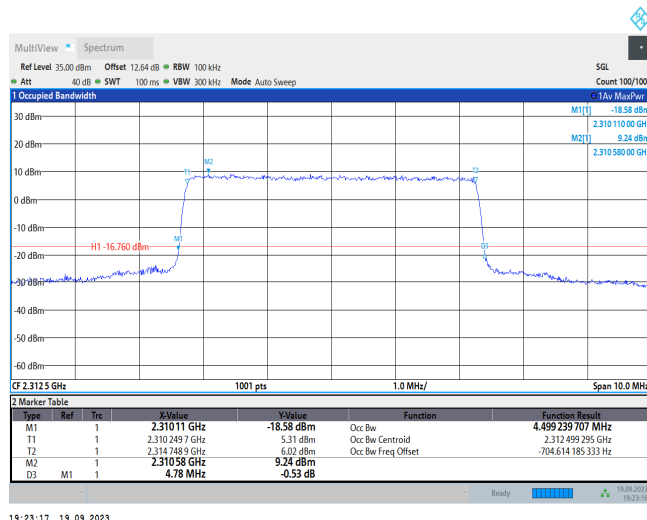


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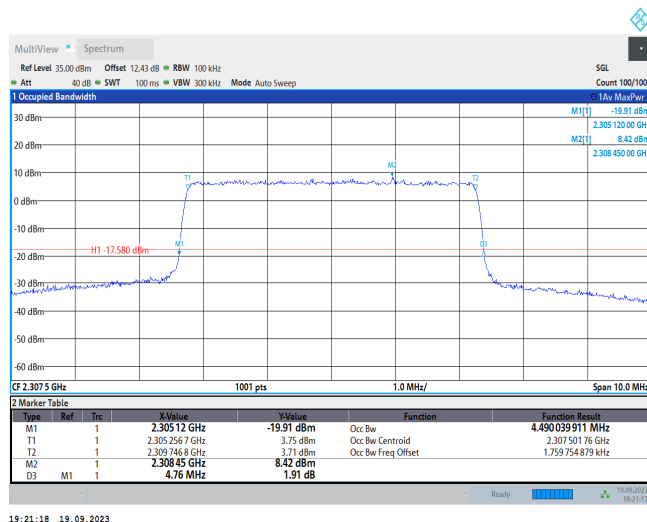
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Band30-5MHz-16QAM-27685-25RB#0



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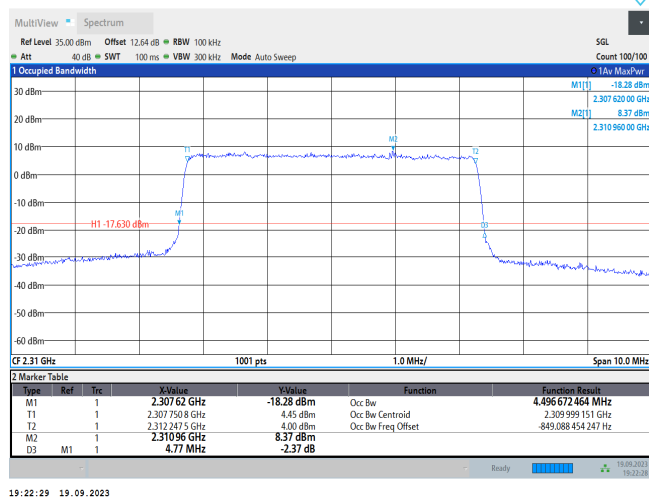
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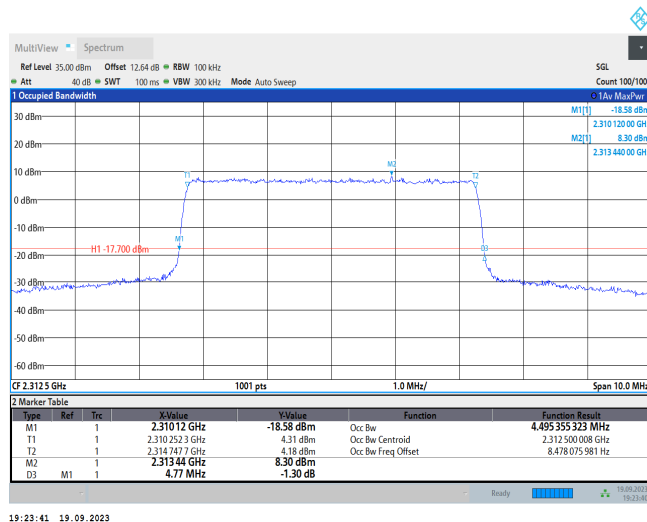
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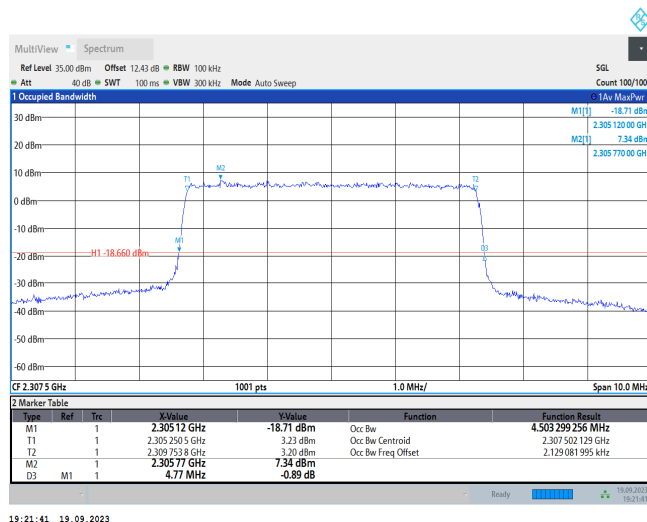
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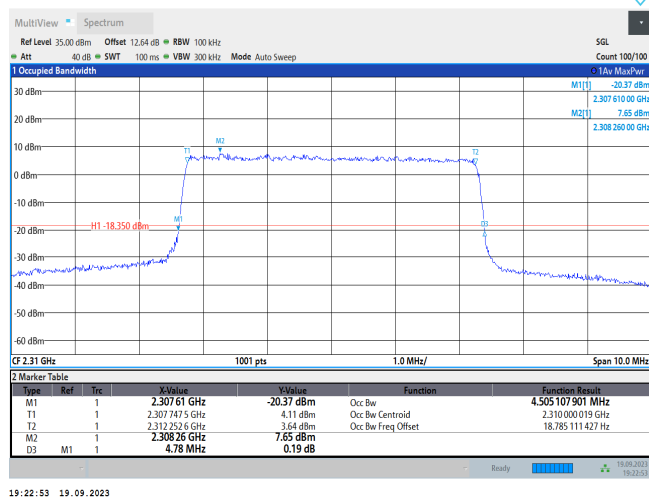


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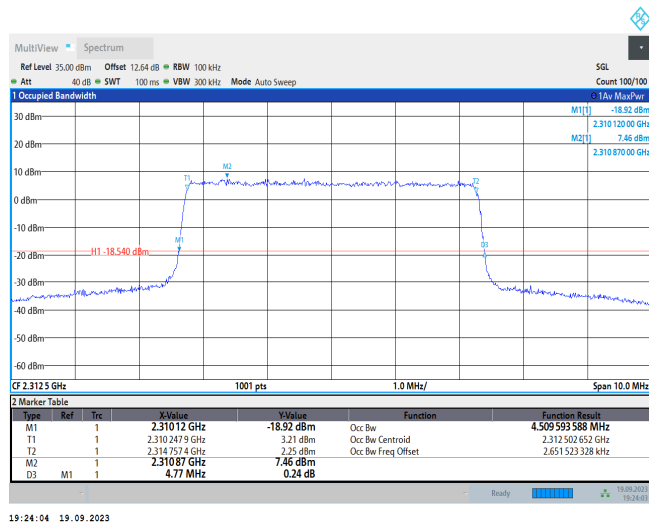
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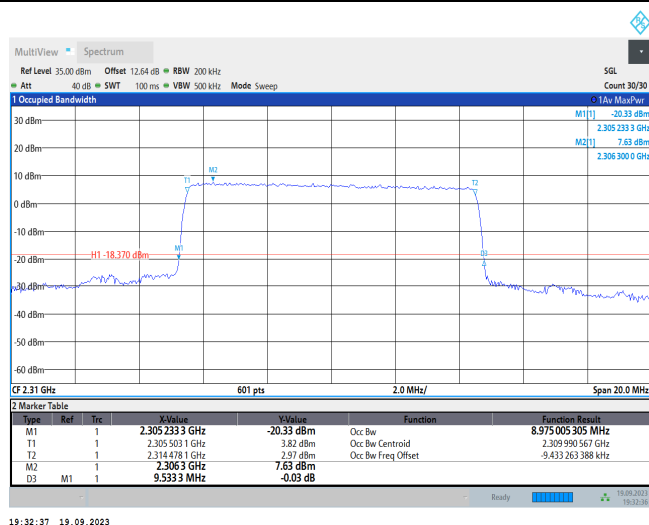
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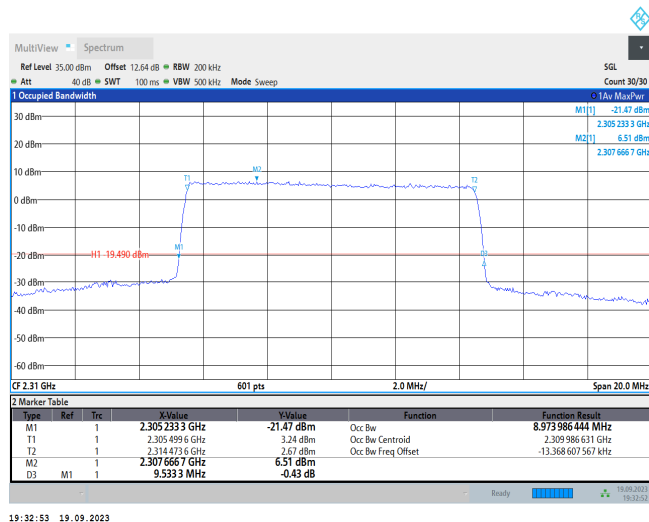
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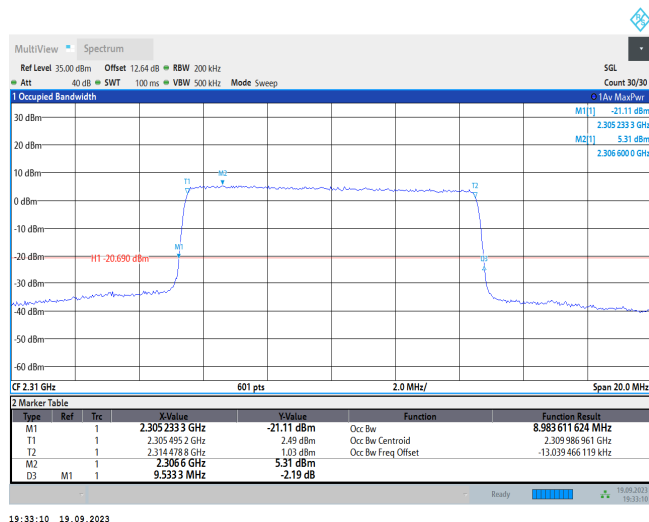
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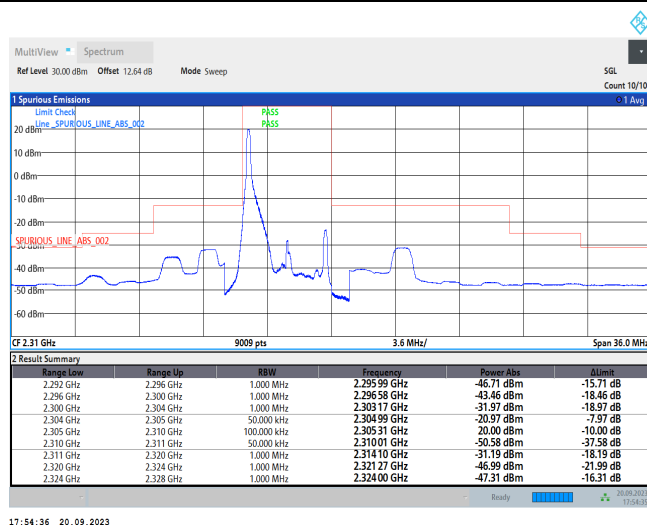
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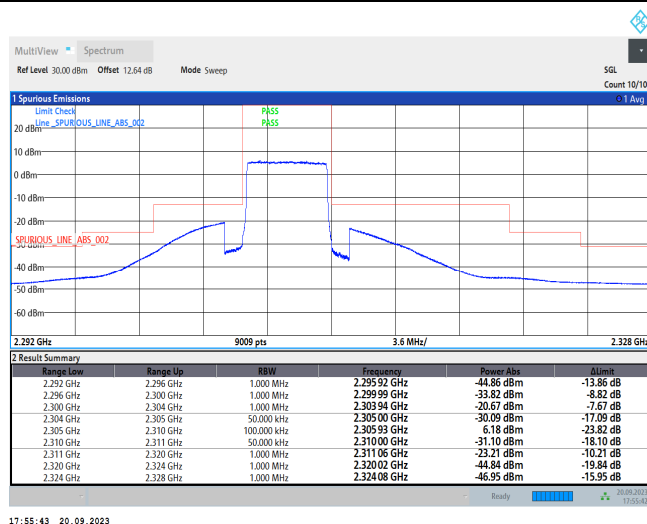
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Test Graphs

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Band30-5MHz-QPSK-27685-25RB#0

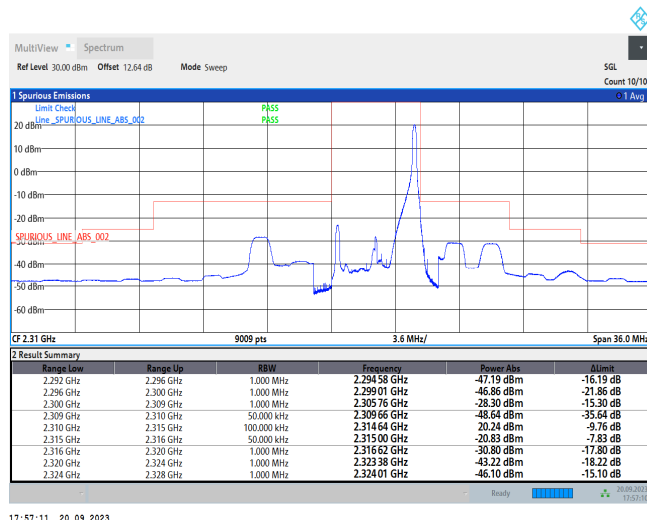


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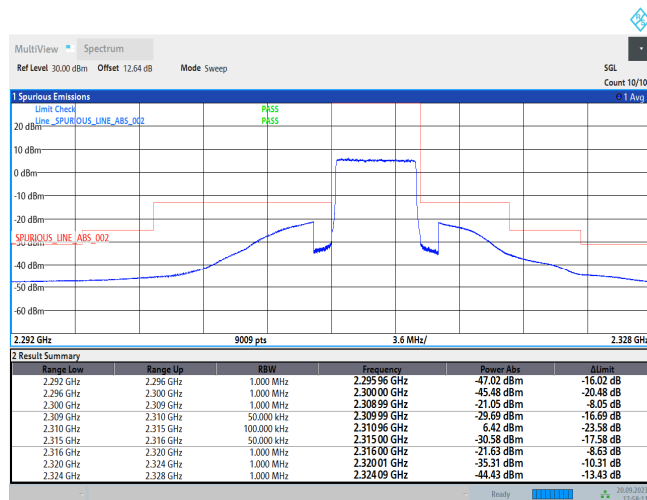
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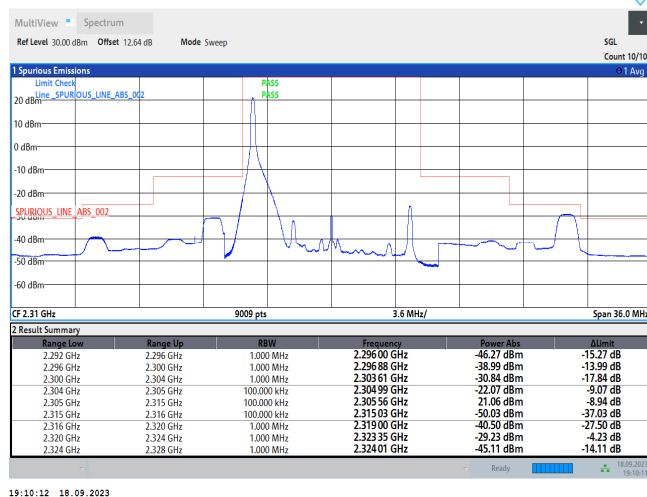
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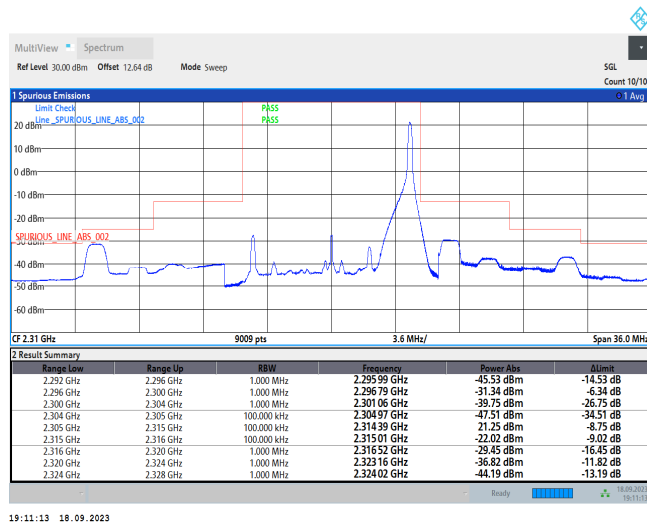
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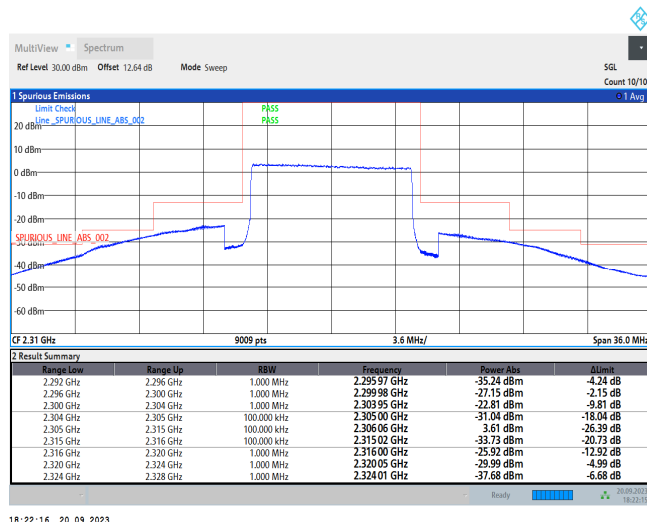
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Band30-10MHz-QPSK-27710-50RB#0



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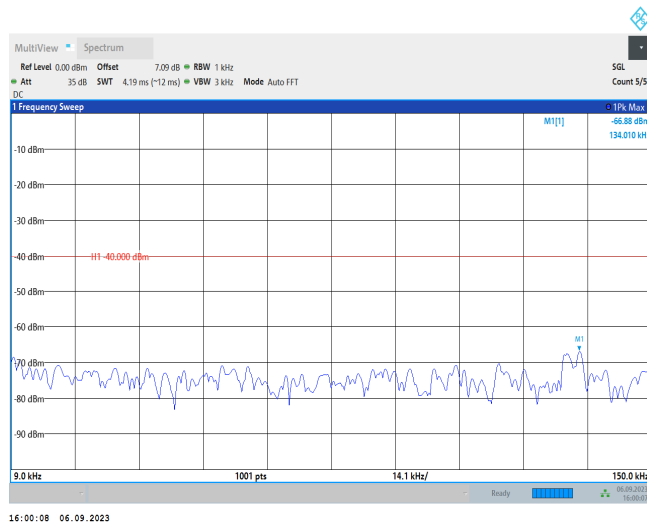
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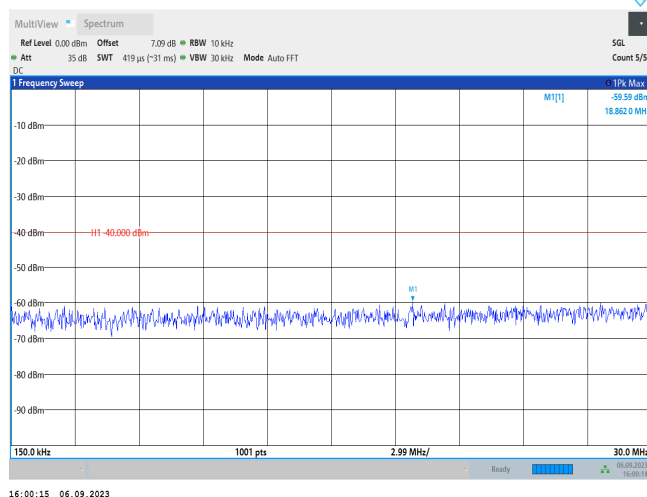
Conducted Spurious Emission

Test Graphs

Band30-10MHz-QPSK-27710-1RB#0-Range1:0.009~0.15MHz



Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz



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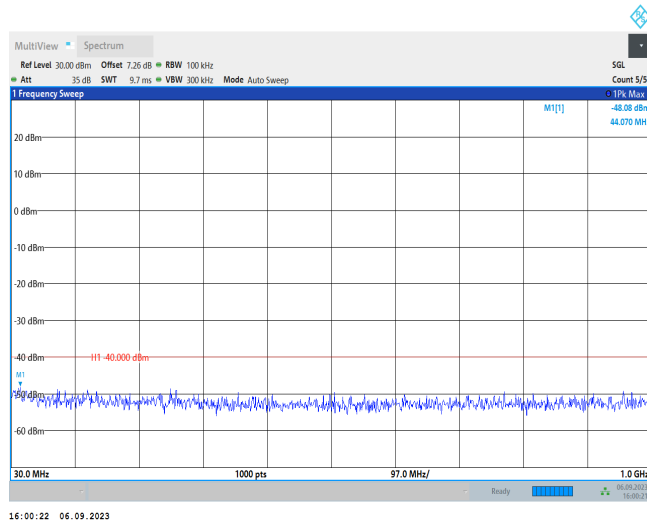
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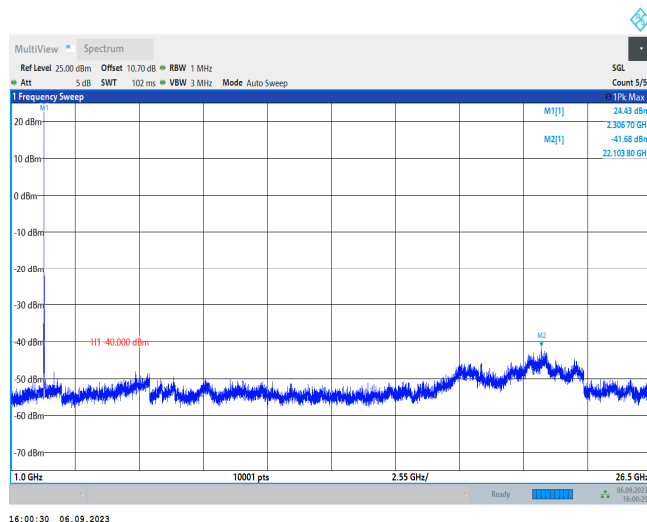
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26500MHz



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Field Strength of Spurious Radiation

Test Band = LTE_30_10MHz

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2986.5	37.58	-21.79	28.52	-50.95	-40.00	10.95	Horizontal
2	4611	50.64	-43.16	30.12	-57.66	-40.00	17.66	Horizontal
3	6148.5	44.54	-40.67	33.30	-58.09	-40.00	18.09	Horizontal
4	7415	43.44	-38.28	36.73	-53.37	-40.00	13.37	Horizontal
5	11103.5	42.63	-37.65	40.20	-50.08	-40.00	10.08	Horizontal
6	16393	41.23	-34.86	38.78	-50.11	-40.00	10.11	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2988	37.69	-21.79	28.53	-50.83	-40.00	10.83	Vertical
2	4611	55.70	-43.16	30.12	-52.60	-40.00	12.60	Vertical
3	6917	49.85	-39.29	35.37	-49.33	-40.00	9.33	Vertical
4	9917	41.70	-35.41	38.62	-50.35	-40.00	10.35	Vertical
5	13643.5	42.15	-37.91	40.14	-50.88	-40.00	10.88	Vertical
6	16398	41.64	-34.83	38.79	-49.66	-40.00	9.66	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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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

11/F, Unit D, Building 1, Kanglong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元1层 邮编: 710086

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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-10.09	-0.004368	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-13.66	-0.005913	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-9.07	-0.003926	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-6.18	-0.002675	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	6.90	0.002987	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-9.88	-0.004277	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-13.06	-0.005654	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-8.55	-0.003701	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	30	-8.17	-0.003198	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	40	-12.16	-0.005450	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	50	-9.04	-0.006024	PASS

---End of Attachment---



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中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
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