



Report No.: XEWM2306000327RG01
Rev.: 01
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Appendix B.13

LTE Band 30



SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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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	22.52	23.52	24.00	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.48	23.48	24.00	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.44	23.44	24.00	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.51	22.51	24.00	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.49	23.49	24.00	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.47	23.47	24.00	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.47	23.47	24.00	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.53	22.53	24.00	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.49	23.49	24.00	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.48	23.48	24.00	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.44	23.44	24.00	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.48	22.48	24.00	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.74	22.74	24.00	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.72	22.72	24.00	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.84	22.84	24.00	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.48	21.48	24.00	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.81	22.81	24.00	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.81	22.81	24.00	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.80	22.8	24.00	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.54	21.54	24.00	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.67	22.67	24.00	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.74	22.74	24.00	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.62	22.62	24.00	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.49	21.49	24.00	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.68	21.68	24.00	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.65	21.65	24.00	PASS



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Band30	5MHz	64QAM	27685	1RB#24	20.66	21.66	24.00	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.54	20.54	24.00	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.61	21.61	24.00	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.62	21.62	24.00	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.68	21.68	24.00	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.56	20.56	24.00	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.59	21.59	24.00	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.65	21.65	24.00	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.57	21.57	24.00	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.50	20.5	24.00	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.58	23.58	24.00	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.52	23.52	24.00	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.53	23.53	24.00	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.54	22.54	24.00	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.84	22.84	24.00	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.83	22.83	24.00	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.84	22.84	24.00	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.53	21.53	24.00	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.79	21.79	24.00	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.63	21.63	24.00	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.71	21.71	24.00	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.57	20.57	24.00	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	22.42	23.42	24.00	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.52	23.52	24.00	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.44	23.44	24.00	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.62	23.62	24.00	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.73	23.73	24.00	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.75	23.75	24.00	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.66	23.66	24.00	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.78	23.78	24.00	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.73	23.73	24.00	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.68	23.68	24.00	PASS
Band30	10MHz	QPSK	27710	1RB#12	22.66	23.66	24.00	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.78	23.78	24.00	PASS



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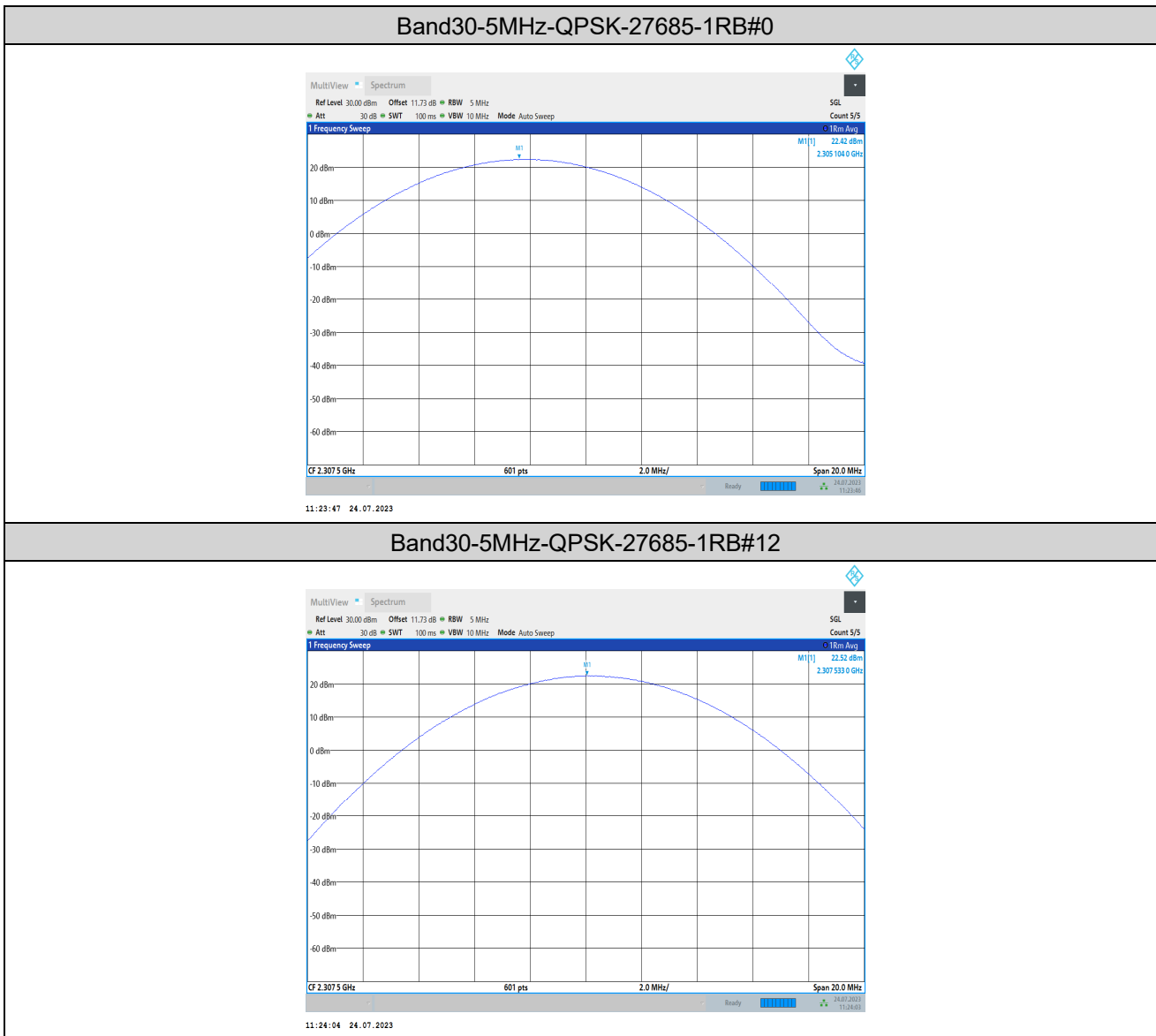
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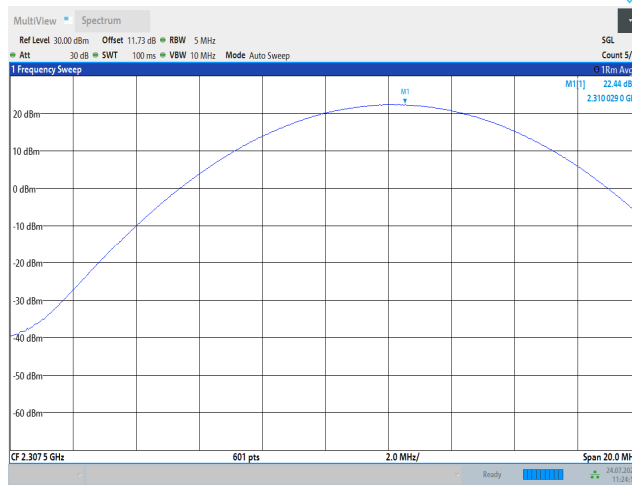
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Test plots



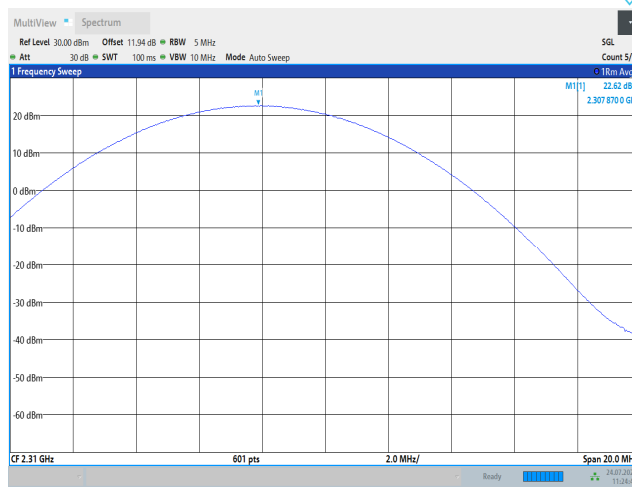
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Band30-5MHz-QPSK-27685-1RB#24



11:24:17 24.07.2023

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

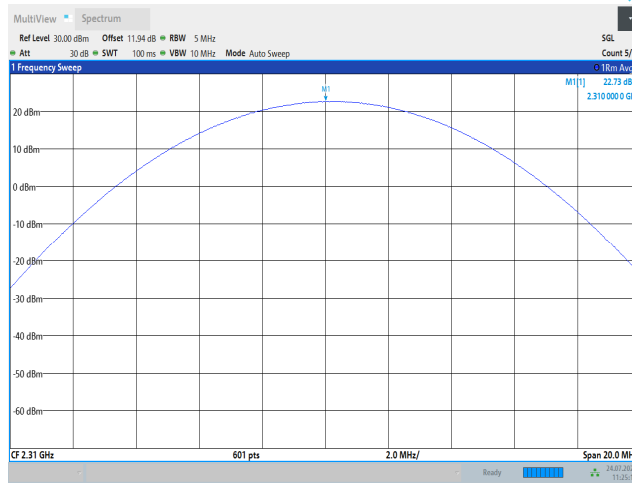


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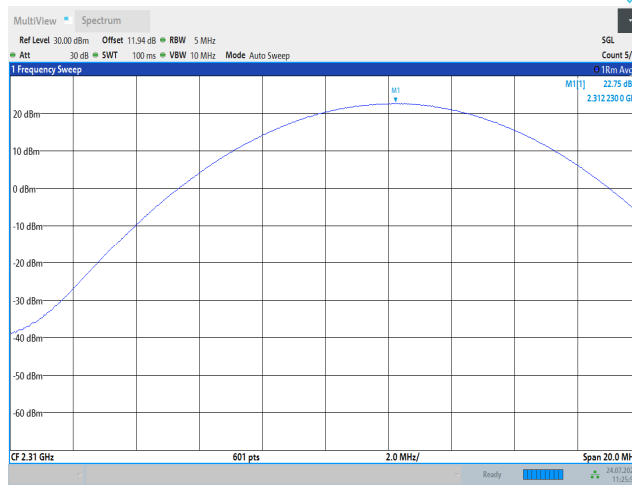
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Band30-5MHz-QPSK -27710-1RB#12



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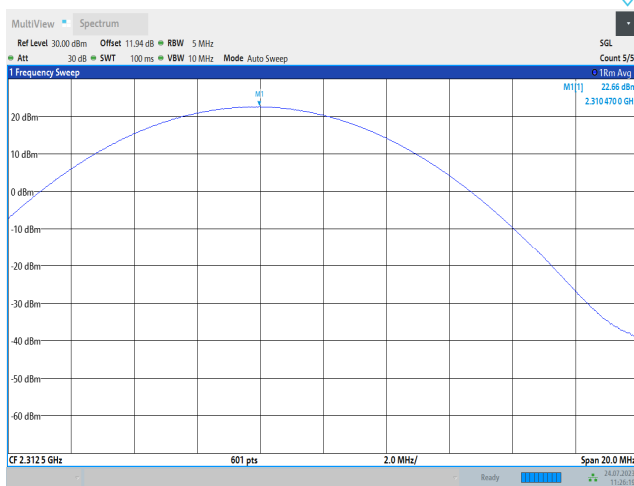
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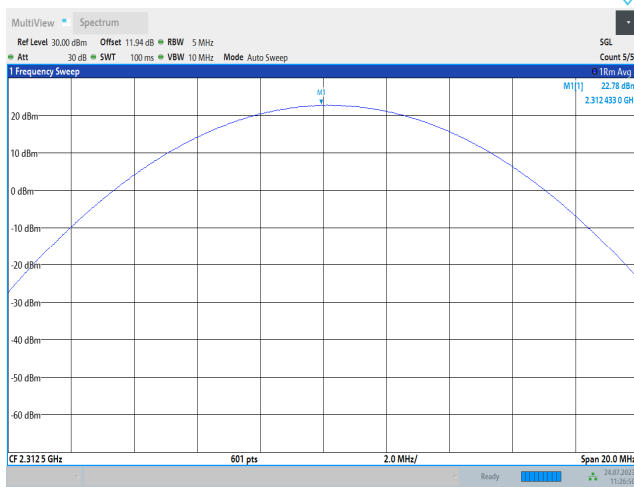


Band30-5MHz-QPSK -27735-1RB#0



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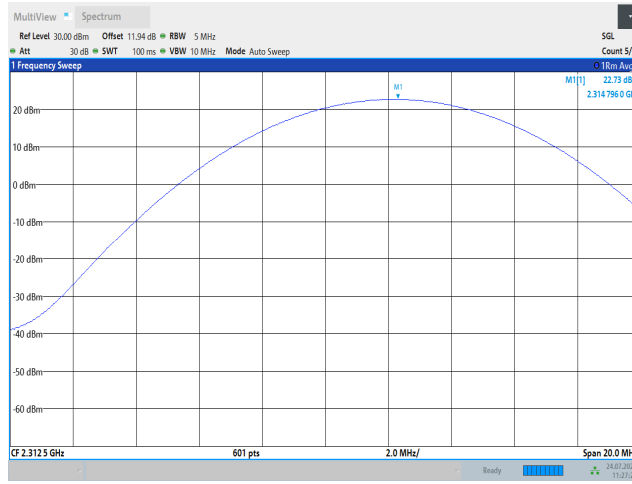


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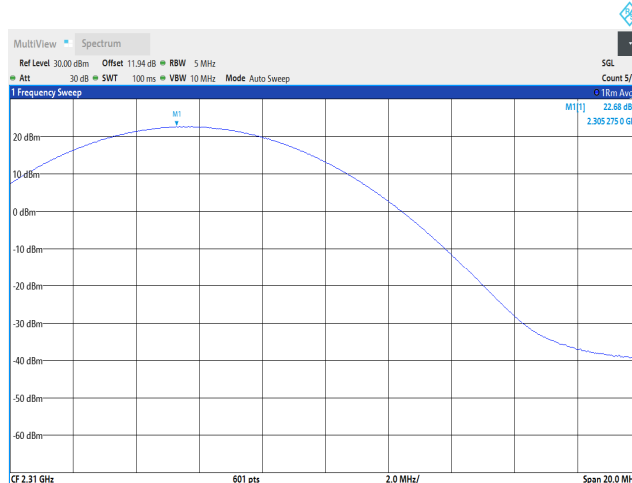
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Band30-5MHz-QPSK -27735-1RB#24



11:27:21 24.07.2023

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

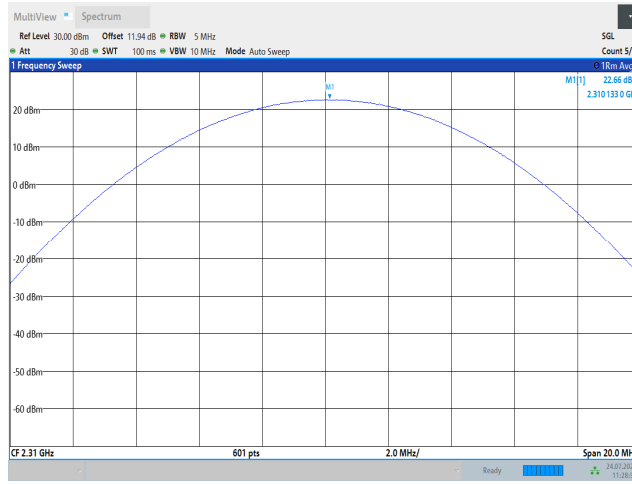


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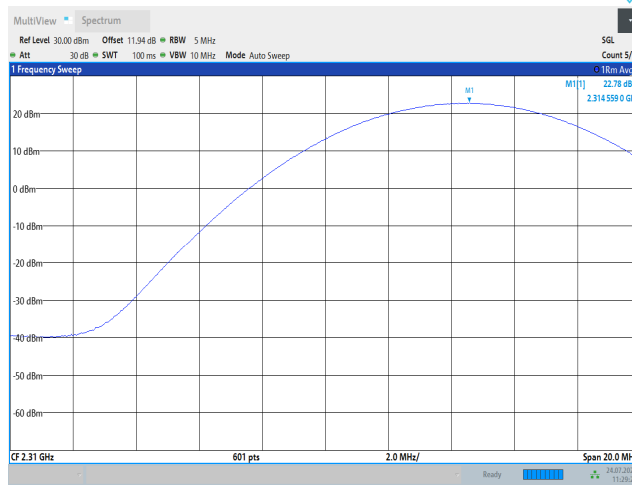


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Band30-10MHz-QPSK-27710-1RB#24



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	5.06	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	5.54	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	5.80	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	6.36	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	6.66	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.60	13	PASS

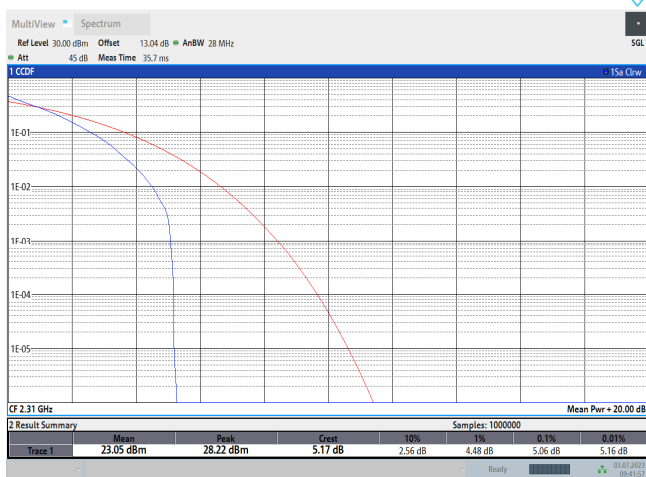


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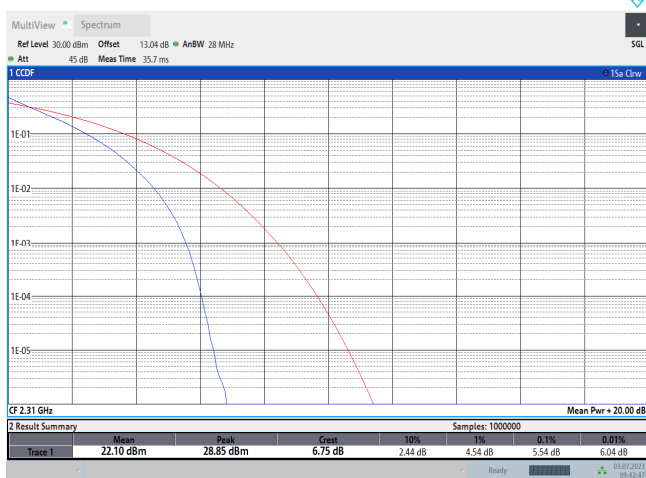
Test Graphs

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



09:41:58 03.07.2023

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

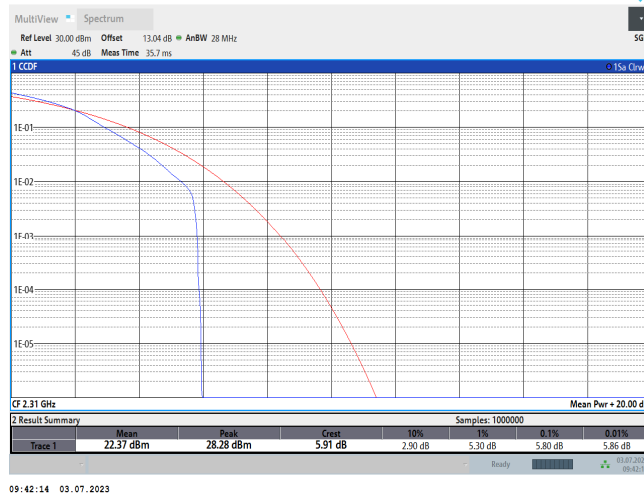


09:42:47 03.07.2023



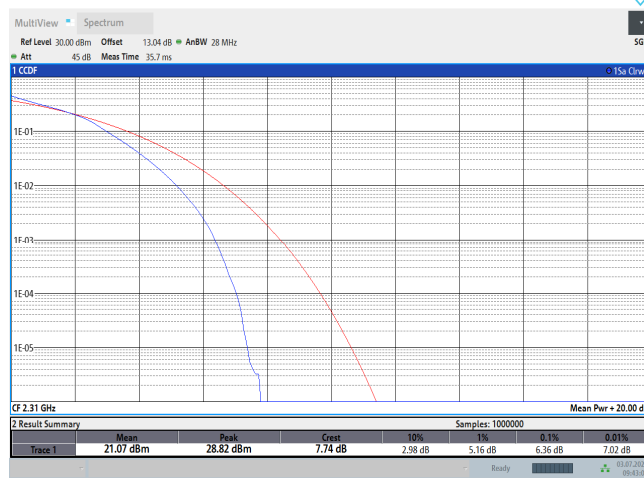
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Band30-10MHz-16QAM-27710-1RB#0



09:42:14 03.07.2023

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

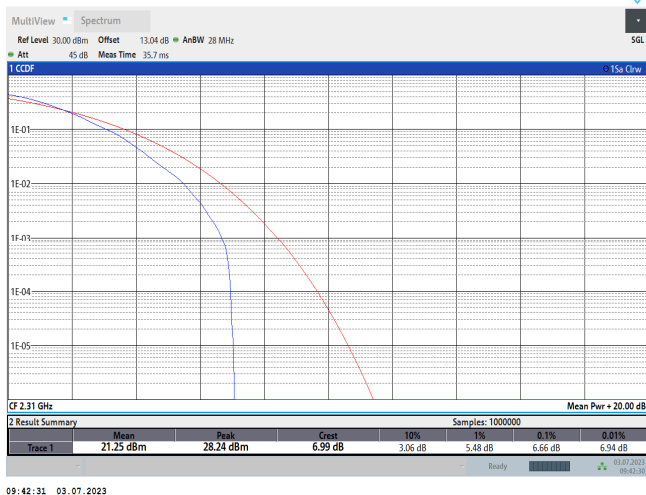


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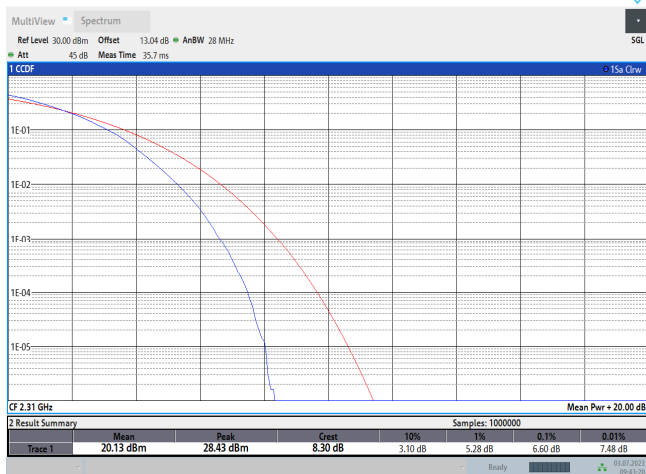
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Band30-10MHz-64QAM-27710-1RB#0



09:42:31 03.07.2023

Band30-10MHz-64QAM-27710-50RB#0



09:43:20 03.07.2023



Report No.: XEWM2306000327RG01
 Rev.: 01
 Page: 15 of 33

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band30	10MHz	QPSK	27710	50RB#0	PASS	PASS
Band30	10MHz	16QAM	27710	50RB#0	PASS	PASS
Band30	10MHz	64QAM	27710	50RB#0	PASS	PASS



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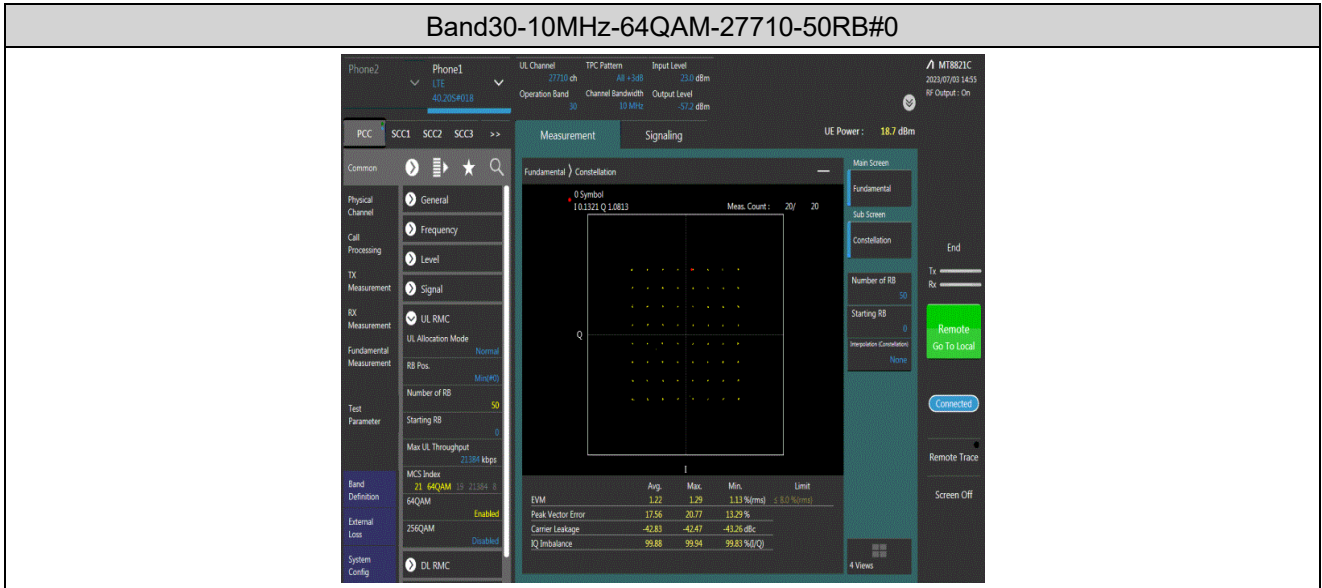
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

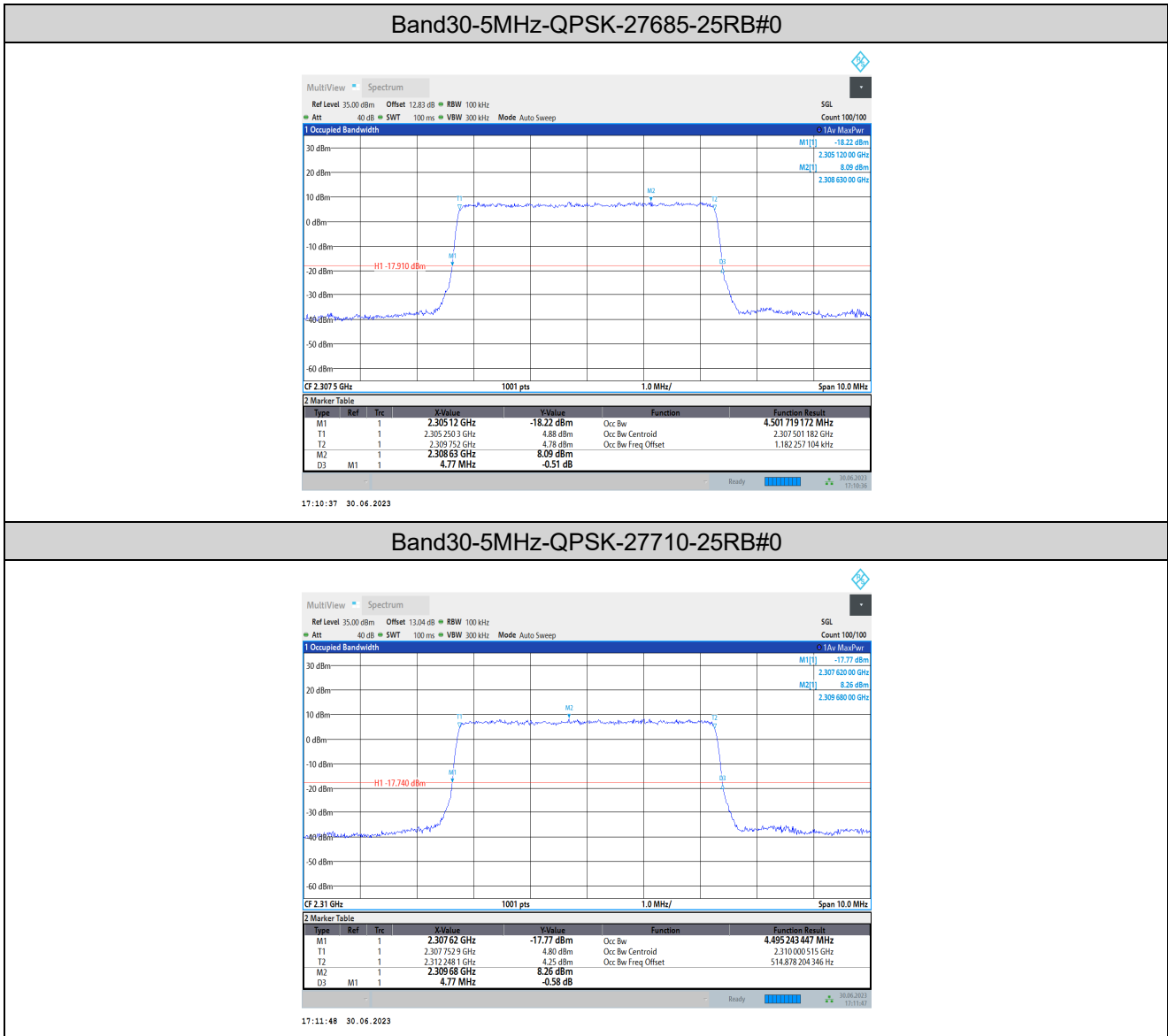
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.502	4.77	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.495	4.77	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.495	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.5	4.77	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.494	4.78	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.497	4.77	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.516	4.79	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.516	4.80	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.51	4.78	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.963	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.978	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.969	9.53	PASS



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Test Graphs

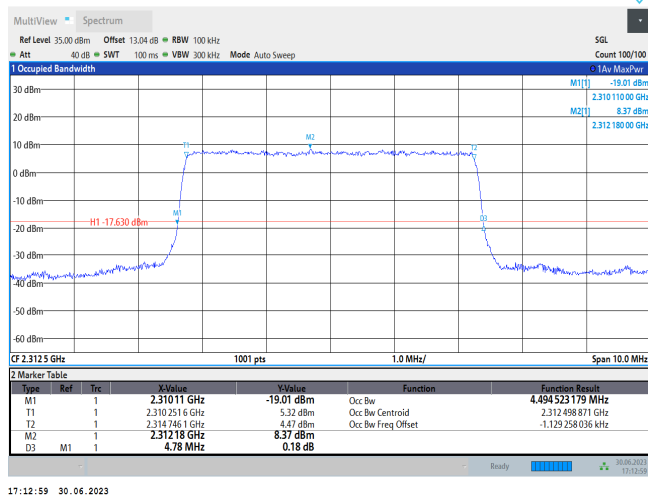


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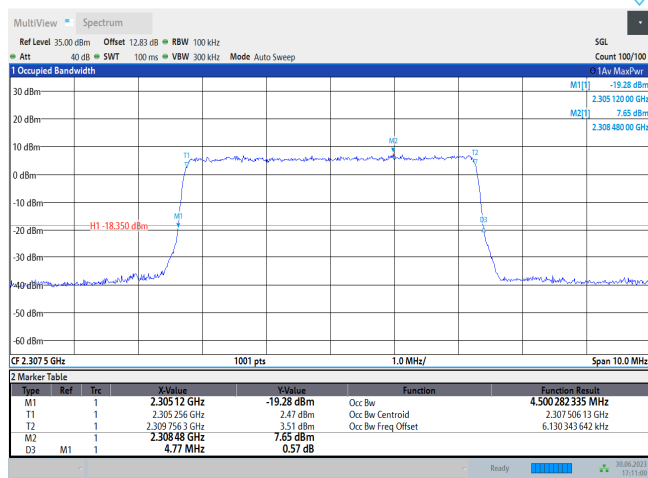
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Band30-5MHz-QPSK-27735-25RB#0



17:12:59 30.06.2023

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

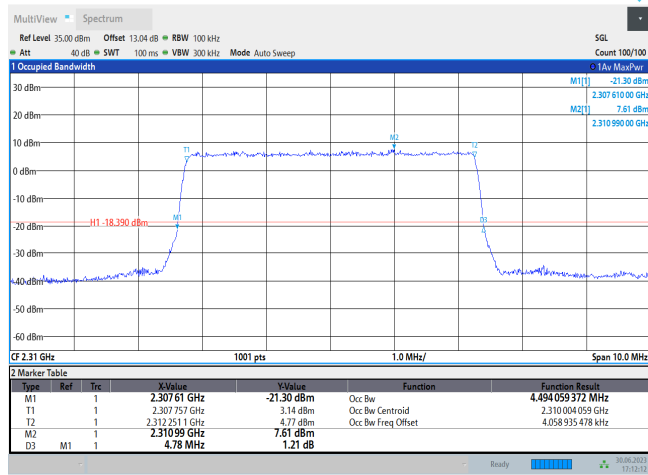


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Band30-5MHz-16QAM-27710-25RB#0

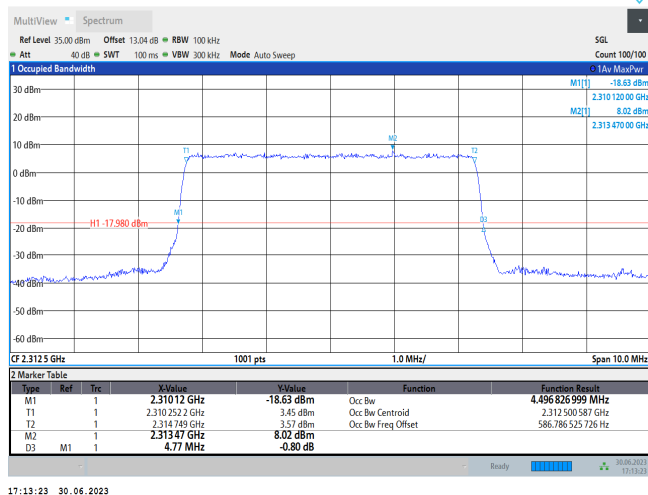


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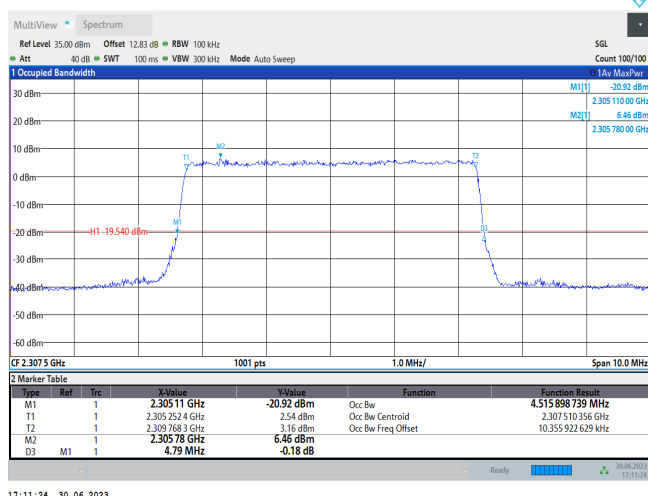
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Band30-5MHz-16QAM-27735-25RB#0



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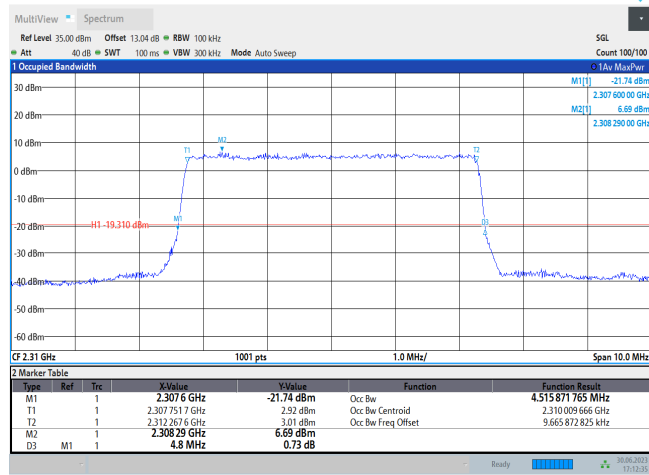
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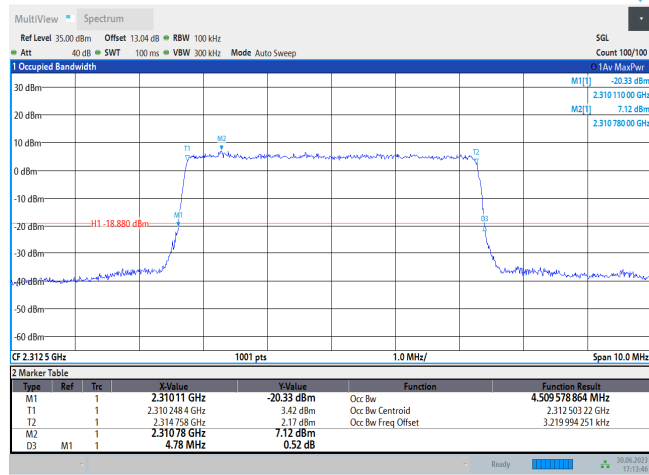
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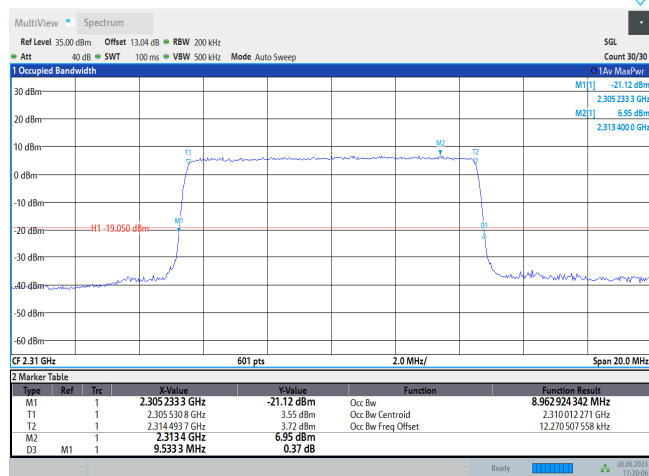


Band30-5MHz-64QAM-27735-25RB#0



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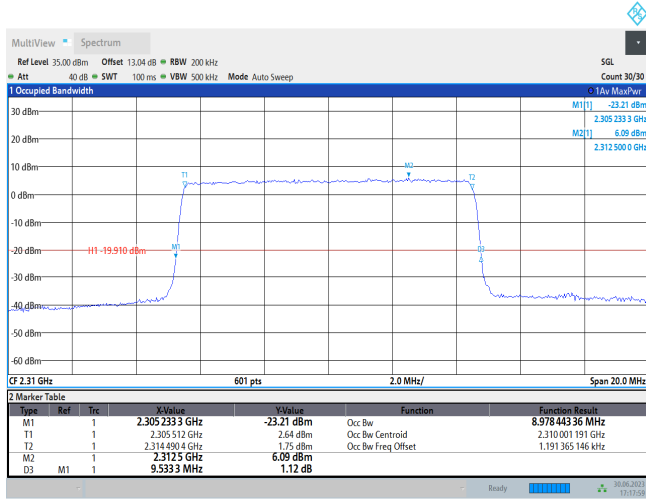


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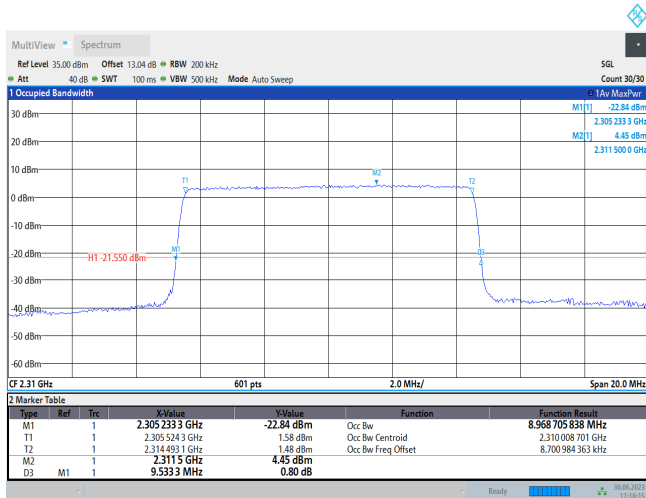
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17:18:00 30.06.2023

Band30-10MHz-64QAM-27710-50RB#0



17:18:16 30.06.2023

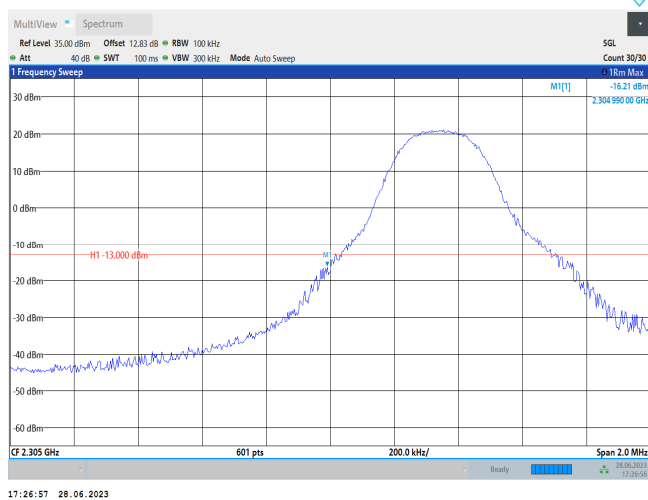


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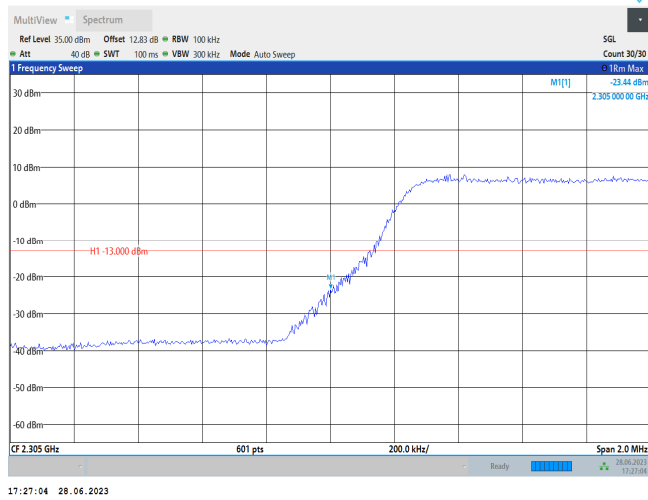
Band Edge

Test Graphs

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

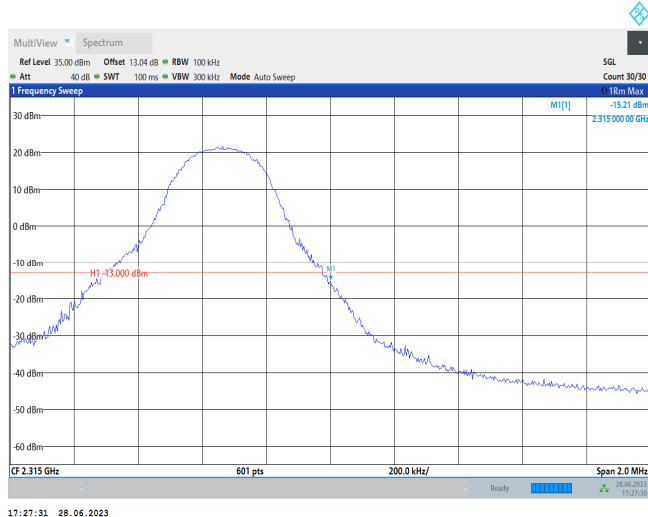


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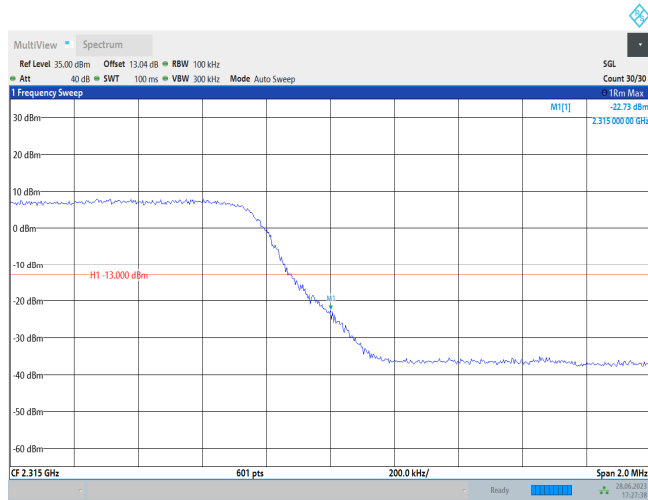
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17:27:31 28.06.2023

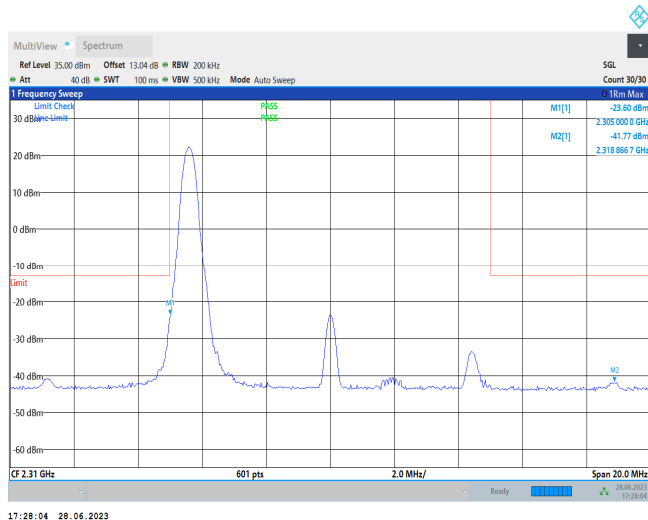
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17:27:39 28.06.2023



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



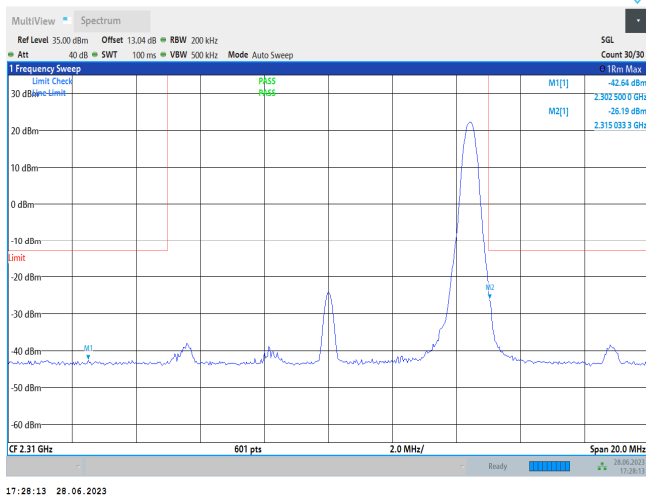
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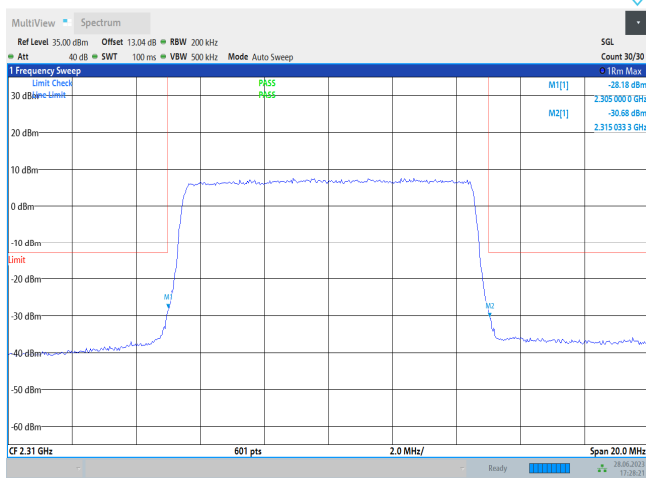
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Band30-10MHz-QPSK-27710-1RB#49



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



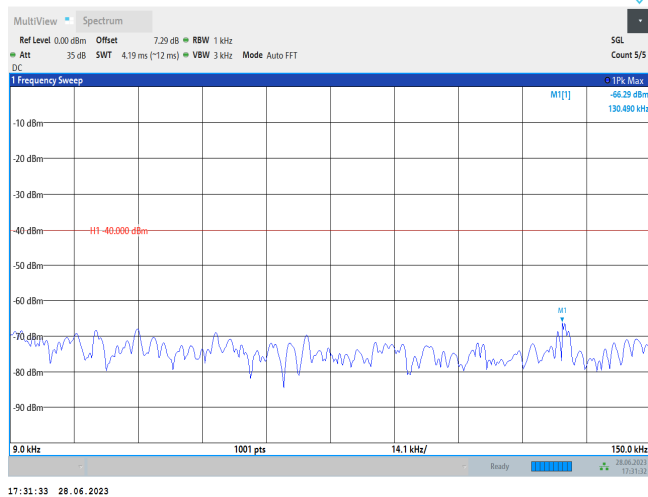
17:28:21 28.06.2023



Conducted Spurious Emission

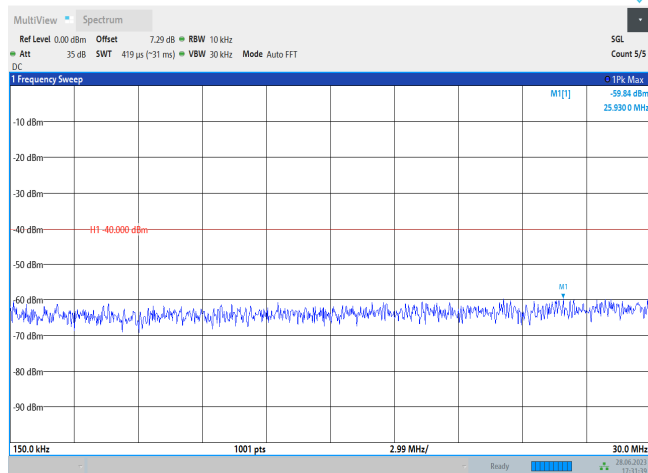
Test Graphs

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



17:31:33 28.06.2023

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



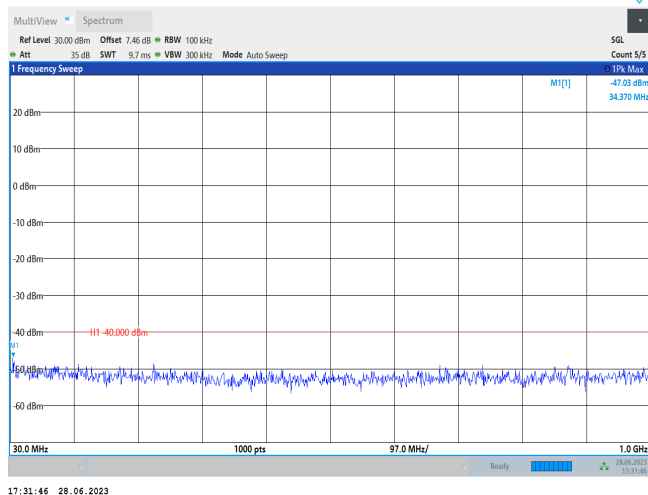
17:31:40 28.06.2023



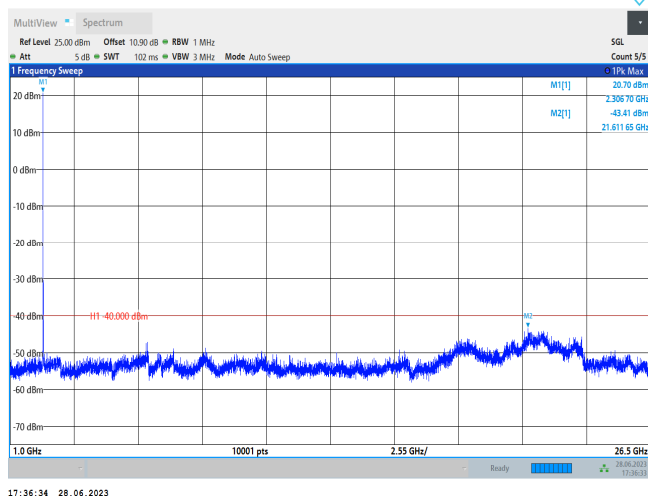
SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
 Wireless Laboratory

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



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



Field Strength of Spurious Radiation

Test Band = LTE_30_TM1_10MHz

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1656.9619	37.45	-23.77	25.44	-56.14	-40.00	16.14	254	128	Horizontal
2	2998.8888	39.26	-21.77	28.59	-49.18	-40.00	9.18	198	134	Horizontal
3	4267.2507	48.25	-43.46	29.70	-60.77	-40.00	20.77	214	179	Horizontal
4	7406.5763	45.46	-38.28	36.71	-51.37	-40.00	11.37	114	58	Horizontal
5	9905.6762	43.37	-35.11	38.61	-48.39	-40.00	8.39	365	170	Horizontal
6	15186.4875	43.04	-35.82	39.78	-48.26	-40.00	8.26	214	174	Horizontal

Final List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	2993.9993	39.19	-21.78	28.56	-49.29	-40.00	9.29	274	122	Vertical
2	3931.2372	48.90	-44.19	29.82	-60.73	-40.00	20.73	226	180	Vertical
3	4611.0644	50.72	-43.16	30.12	-57.58	-40.00	17.58	325	226	Vertical
4	7211.5685	45.28	-38.72	36.53	-52.17	-40.00	12.17	214	221	Vertical
5	10960.5184	44.27	-37.16	40.14	-48.01	-40.00	8.01	118	104	Vertical
6	15182.8873	42.80	-35.96	39.80	-48.62	-40.00	8.62	293	73	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
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-8.75	-0.003788	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-8.15	-0.003528	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-10.91	-0.004723	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-9.86	-0.004268	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-9.56	-0.004139	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	6.68	0.002892	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	10.06	0.004355	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-6.71	-0.002905	PASS
Band30	20MHz	QPSK	27710	100RB#0	NV	20	-7.38	-0.003920	PASS
Band30	20MHz	QPSK	27710	100RB#0	NV	30	-6.02	-0.003198	PASS
Band30	20MHz	QPSK	27710	100RB#0	NV	40	-10.26	-0.005450	PASS
Band30	20MHz	QPSK	27710	100RB#0	NV	50	-11.34	-0.006024	PASS

---End of Attachment---

