



Report No.: SEWM2308000313RG01

Rev.: 01

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Appendix B.11

LTE Band 30



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT3

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.5	21.5	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.69	21.69	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.66	21.66	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.72	20.72	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.68	21.68	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.63	21.63	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.46	21.46	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.25	21.25	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.76	21.76	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	21.72	20.72	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.54	21.54	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.78	20.78	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.79	20.79	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.66	20.66	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.64	20.64	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.72	19.72	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.72	20.72	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.67	20.67	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.61	20.61	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.68	19.68	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.72	20.72	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.63	20.63	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.69	20.69	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.77	19.77	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.78	19.78	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.72	19.72	23.98	PASS



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Band30	5MHz	64QAM	27685	1RB#24	20.76	19.76	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.62	18.62	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.71	19.71	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.74	19.74	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.73	19.73	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.73	18.73	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.66	19.66	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.69	19.69	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	19.5	18.5	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.8	18.8	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.75	16.75	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.66	16.66	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.75	16.75	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.62	16.62	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.72	16.72	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.63	16.63	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.73	16.73	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.71	16.71	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.66	16.66	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.71	16.71	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.79	16.79	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.8	16.8	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.68	21.68	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.62	21.62	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.65	21.65	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.73	20.73	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.75	20.75	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.68	20.68	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.62	20.62	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.79	19.79	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.77	19.77	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.65	19.65	23.98	PASS



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Band30	10MHz	64QAM	27710	1RB#49	19.75	18.75	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.76	18.76	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.79	16.79	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.69	16.69	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.72	16.72	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.76	16.76	23.98	PASS



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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	50RB#0	4.70	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.64	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	5.78	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.24	13	PASS

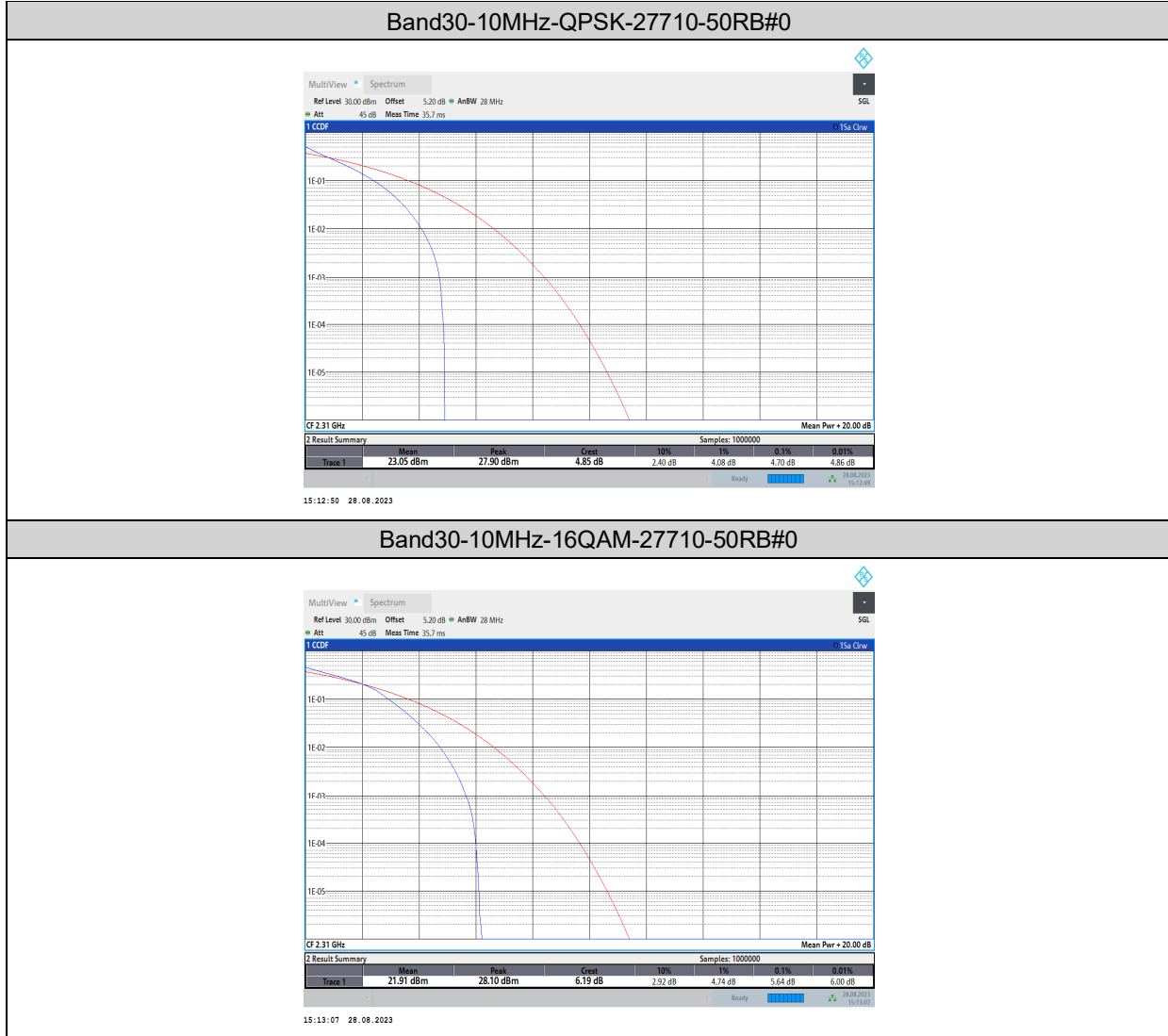


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Test Graphs

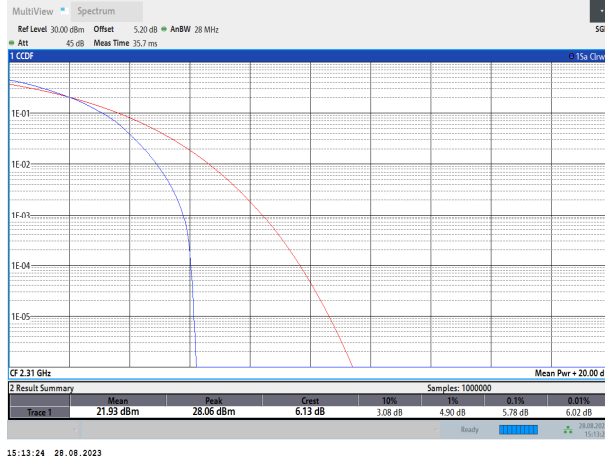


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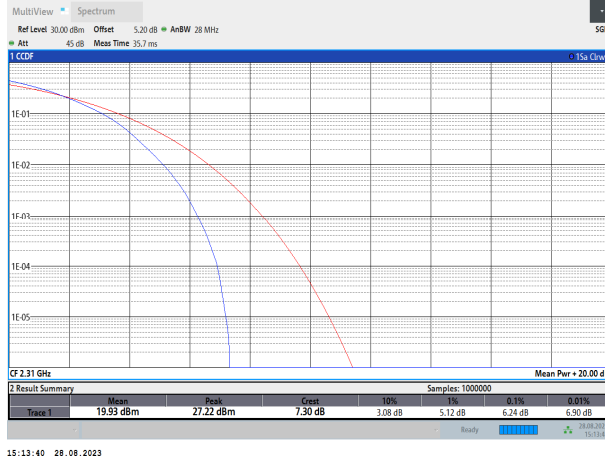
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Band30-10MHz-64QAM-27710-50RB#0



Band30-10MHz-256QAM-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	27710	25RB#0	4.494	4.77	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.503	4.77	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.502	4.78	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.499	4.78	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.994	9.97	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.979	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.982	9.53	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.983	9.53	PASS

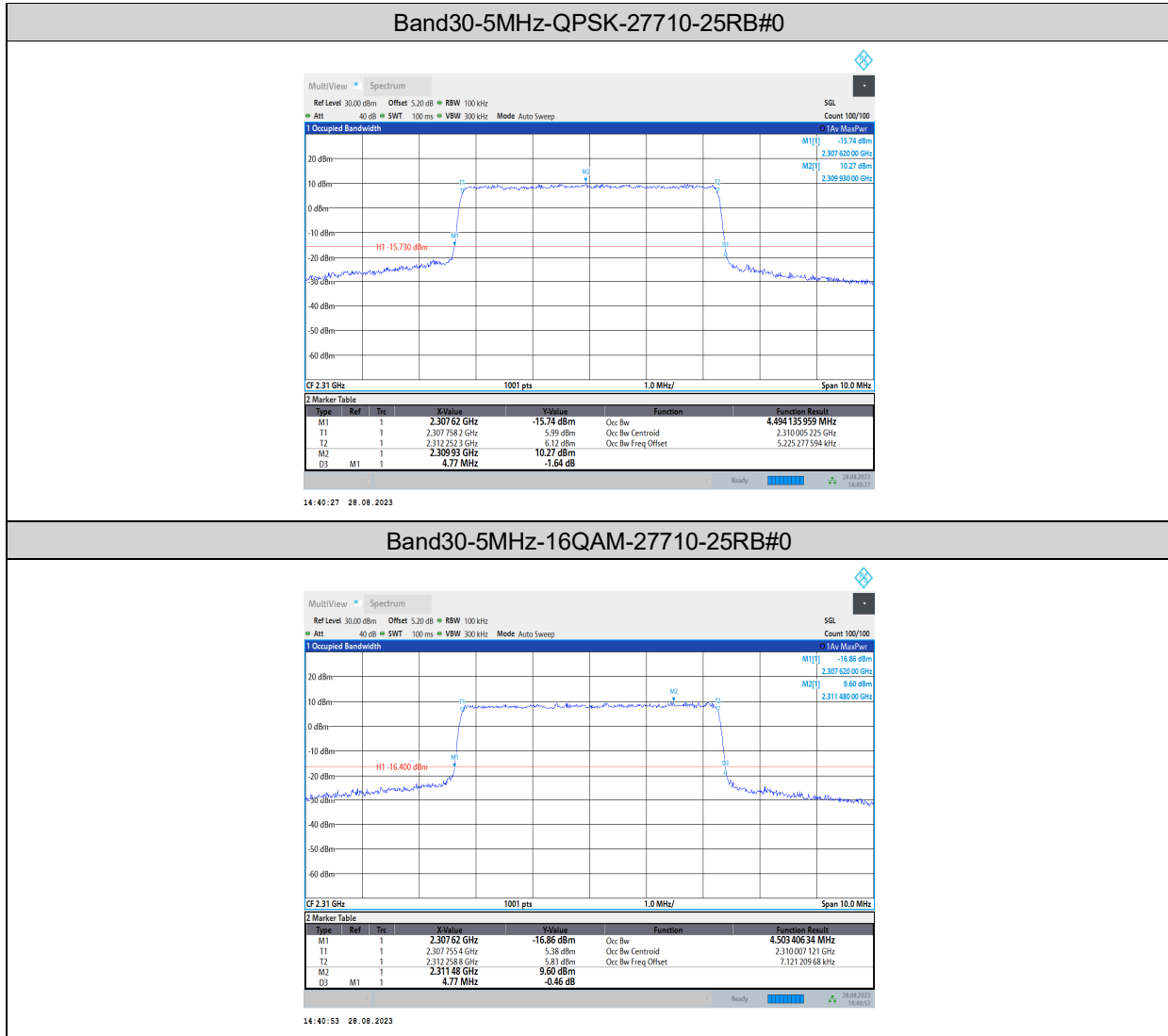


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Test Graphs

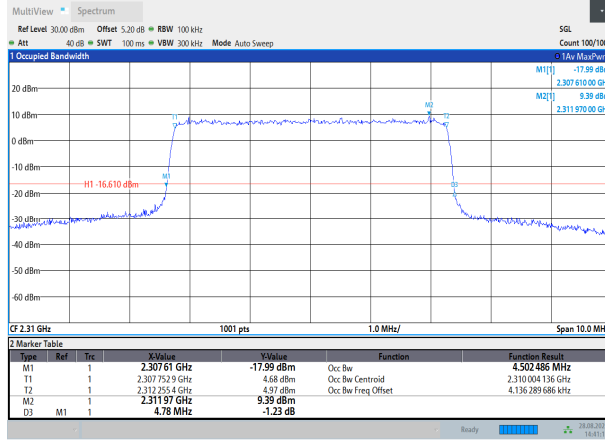


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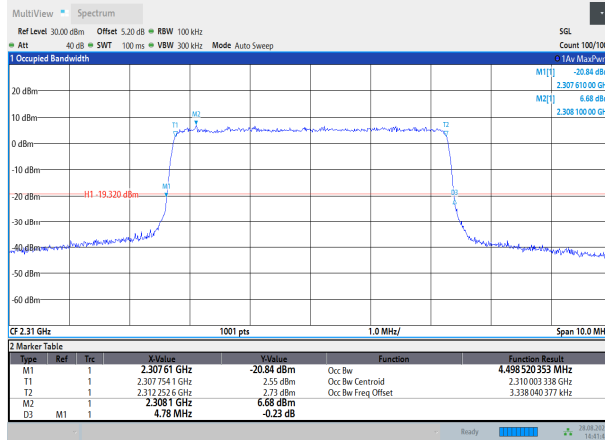
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Band30-5MHz-64QAM-27710-25RB#0



14:41:19 28.08.2023

Band30-5MHz-256QAM-27710-25RB#0



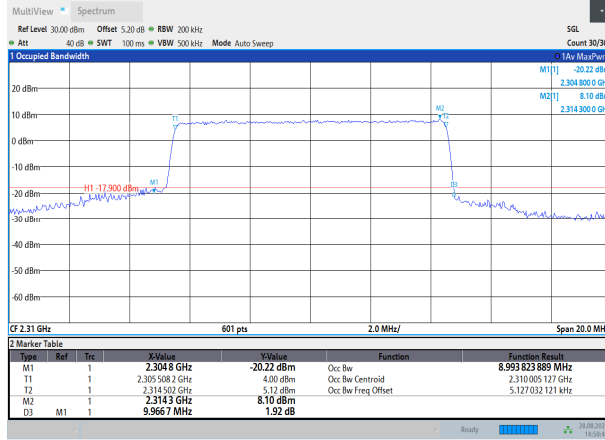
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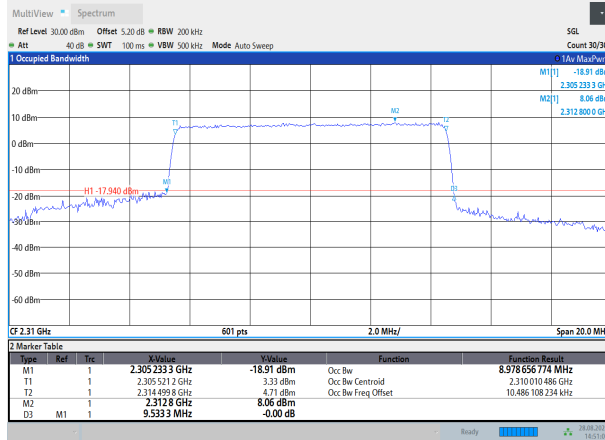
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Band30-10MHz-QPSK-27710-50RB#0



14:50:43 28.08.2023

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



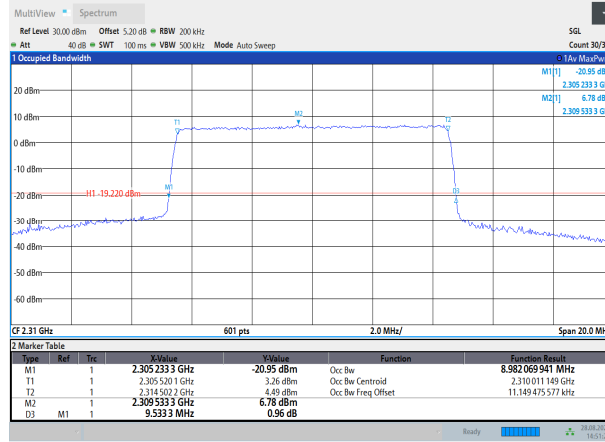
14:51:02 28.08.2023



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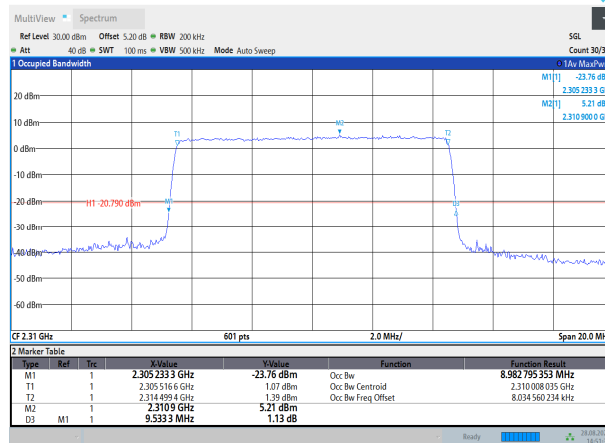
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Band30-10MHz-64QAM-27710-50RB#0



14:51:20 28.08.2023

Band30-10MHz-256QAM-27710-50RB#0



14:51:39 28.08.2023



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Band Edge

Test Graphs

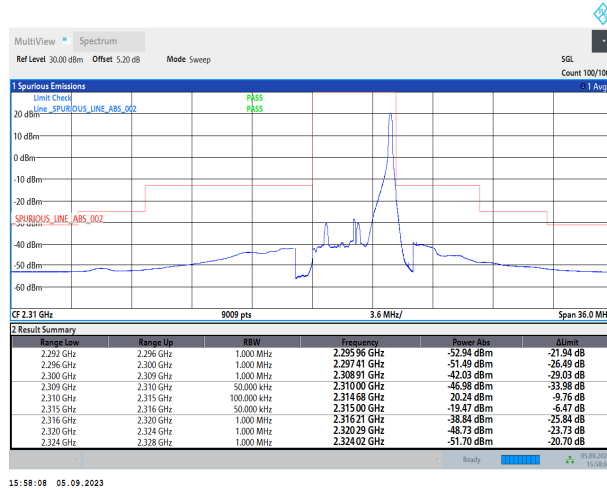


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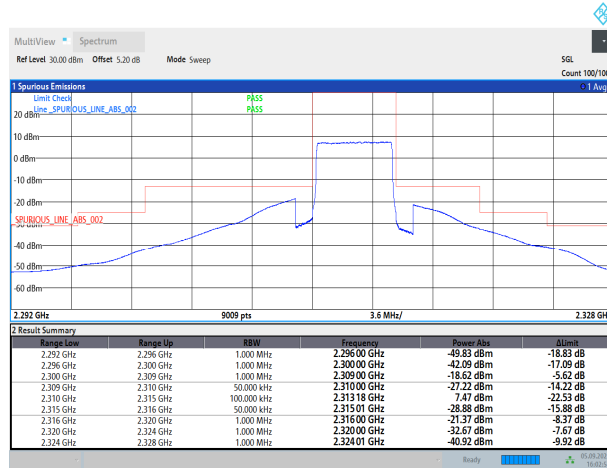
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Band30-5MHz-QPSK-27735-1RB#24



15:58:08 05.09.2023

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



16:02:53 05.09.2023

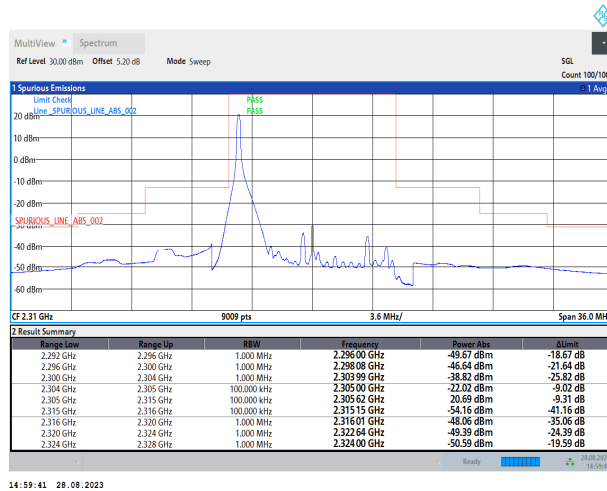


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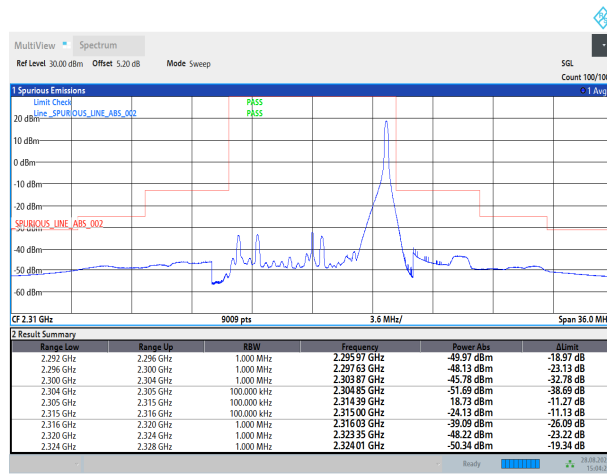
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Band30-10MHz-QPSK-27710-1RB#0



14:59:41 28.08.2023

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



15:04:27 28.08.2023

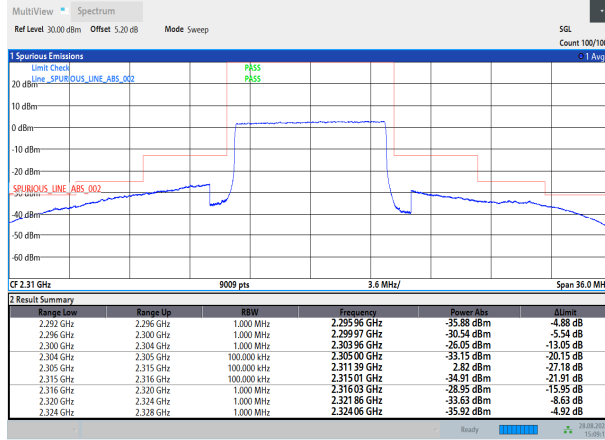


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Band30-10MHz-QPSK-27710-50RB#0



15:09:13 28.08.2023



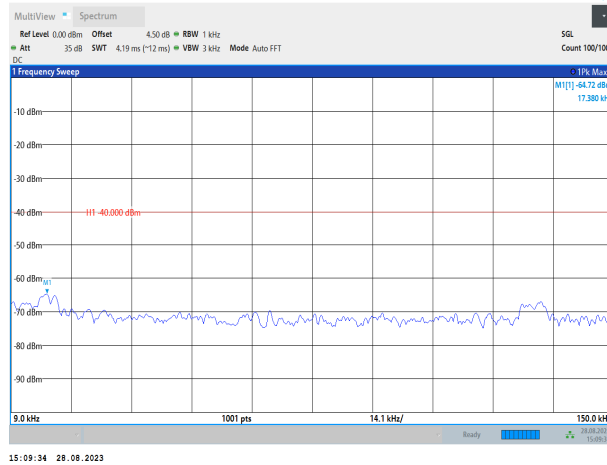
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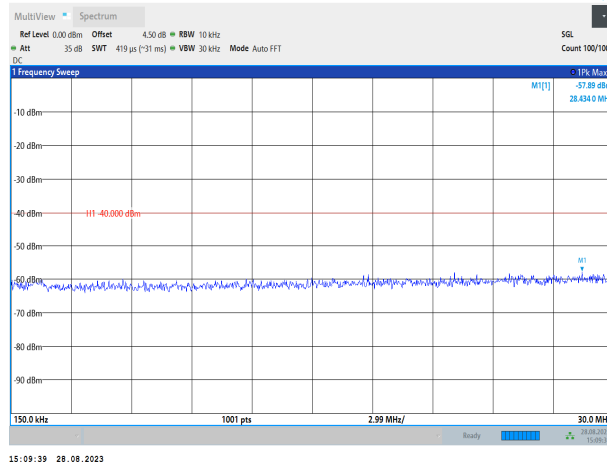
Conducted Spurious Emission

Test Graphs

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

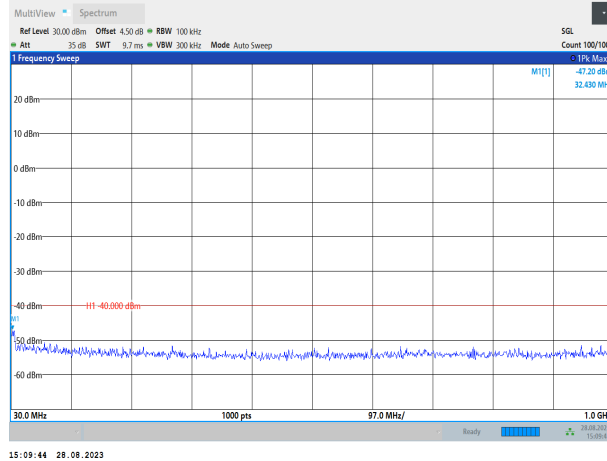


Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz

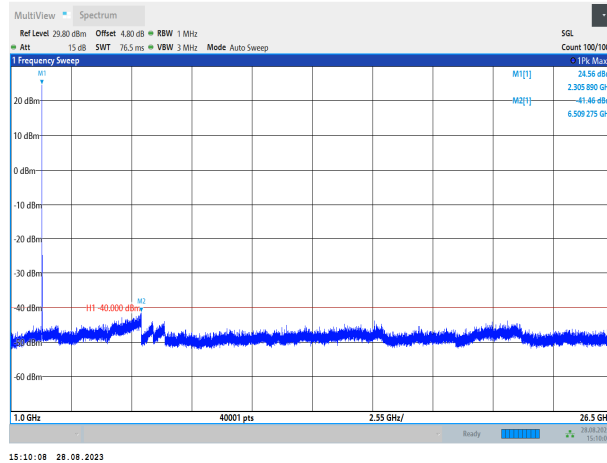


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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band30_10M_TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3638	43.72	-45.89	28.74	-68.69	-40.00	28.69	Horizontal
2	4611	66.50	-45.66	30.54	-43.88	-40.00	3.88	Horizontal
3	6992.5	41.10	-43.59	35.19	-62.56	-40.00	22.56	Horizontal
4	9222	45.17	-40.24	36.72	-53.61	-40.00	13.61	Horizontal
5	11528	32.68	-37.20	38.75	-61.02	-40.00	21.02	Horizontal
6	13836	28.93	-36.06	40.60	-61.78	-40.00	21.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3361.5	44.21	-46.35	28.52	-68.88	-40.00	28.88	Vertical
2	4611	64.53	-45.66	30.54	-45.85	-40.00	5.85	Vertical
3	6916.5	44.98	-44.01	35.05	-59.24	-40.00	19.24	Vertical
4	9222.5	47.32	-40.24	36.72	-51.46	-40.00	11.46	Vertical
5	11527.5	33.40	-37.20	38.75	-60.30	-40.00	20.30	Vertical
6	14375.5	27.45	-35.13	41.05	-61.89	-40.00	21.89	Vertical



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Test Band = LTE Band30_5M_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	65.96	-45.66	30.54	-44.42	-40.00	4.42	Horizontal
2	6916	42.99	-44.01	35.05	-61.23	-40.00	21.23	Horizontal
3	8069	37.89	-41.67	36.77	-62.27	-40.00	22.27	Horizontal
4	9221	41.37	-40.24	36.72	-57.41	-40.00	17.41	Horizontal
5	11221.5	31.24	-37.40	38.72	-62.69	-40.00	22.69	Horizontal
6	12065	29.23	-37.44	38.82	-64.65	-40.00	24.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	56.33	-45.66	30.54	-54.05	-40.00	14.05	Vertical
2	5411	42.46	-45.29	32.39	-65.71	-40.00	25.71	Vertical
3	6809.5	41.58	-44.16	34.86	-62.99	-40.00	22.99	Vertical
4	9221.5	42.70	-40.24	36.72	-56.08	-40.00	16.08	Vertical
5	10504	32.79	-38.79	38.45	-62.80	-40.00	22.80	Vertical
6	12700.5	28.43	-36.68	39.01	-64.50	-40.00	24.50	Vertical



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Test Band = LTE Band30_5M_TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	66.29	-45.66	30.55	-44.08	-40.00	4.08	Horizontal
2	5412	42.47	-45.29	32.39	-65.69	-40.00	25.69	Horizontal
3	6572.5	41.48	-44.42	34.43	-63.77	-40.00	23.77	Horizontal
4	8087	37.59	-41.49	36.76	-62.40	-40.00	22.40	Horizontal
5	9630	35.36	-39.60	37.50	-62.00	-40.00	22.00	Horizontal
6	11141.5	30.99	-37.73	38.71	-63.29	-40.00	23.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	59.40	-45.66	30.55	-50.97	-40.00	10.97	Vertical
2	5438	42.13	-45.28	32.45	-65.96	-40.00	25.96	Vertical
3	6923.5	41.89	-43.97	35.06	-62.28	-40.00	22.28	Vertical
4	8073.5	37.97	-41.62	36.76	-62.15	-40.00	22.15	Vertical
5	9231.5	44.86	-40.24	36.74	-53.90	-40.00	13.90	Vertical
6	11354.5	30.69	-37.39	38.74	-63.23	-40.00	23.23	Vertical



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Test Band = LTE Band30_5M_TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	62.09	-45.66	30.57	-48.26	-40.00	8.26	Horizontal
2	5485.5	42.22	-45.25	32.57	-65.72	-40.00	25.72	Horizontal
3	6818	41.64	-44.16	34.87	-62.91	-40.00	22.91	Horizontal
4	8491.5	38.01	-41.61	36.55	-62.30	-40.00	22.30	Horizontal
5	11230.5	31.26	-37.40	38.72	-62.68	-40.00	22.68	Horizontal
6	12849	29.02	-36.97	39.05	-64.15	-40.00	24.15	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	60.76	-45.66	30.57	-49.59	-40.00	9.59	Vertical
2	6545	41.50	-44.49	34.38	-63.87	-40.00	23.87	Vertical
3	7872	39.31	-42.68	36.75	-61.88	-40.00	21.88	Vertical
4	8446.5	38.87	-41.53	36.58	-61.34	-40.00	21.34	Vertical
5	9241.5	43.92	-40.24	36.76	-54.82	-40.00	14.82	Vertical
6	11551.5	29.84	-37.10	38.76	-63.76	-40.00	23.76	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	6.10	0.002641	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-4.90	-0.002121	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-5.60	-0.002424	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	5.80	0.002511	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	11.40	0.004935	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	6.20	0.006537	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	8.50	0.003680	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-1.30	-0.000563	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-1.00	-0.000433	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	5.30	0.006854	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-1.20	-0.000629	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-1.70	-0.000561	PASS

---End of Attachment---



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