

Appendix B.8

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	21.95	19.65	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.27	19.97	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	21.95	19.65	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.12	18.82	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	21.99	19.69	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.23	19.93	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	21.96	19.66	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.14	18.84	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	21.98	19.68	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.23	19.93	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	21.92	19.62	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.14	18.84	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.23	18.93	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.58	19.28	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.25	18.95	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.10	17.80	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.24	18.94	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.44	19.14	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.21	18.91	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.12	17.82	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.23	18.93	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.51	19.21	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.11	18.81	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.14	17.84	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.19	17.89	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.44	18.14	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.17	17.87	23.98	PASS



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Band30	5MHz	64QAM	27685	25RB#0	19.10	16.80	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.18	17.88	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.40	18.10	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.14	17.84	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.11	16.81	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.12	17.82	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.40	18.10	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.07	17.77	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.11	16.81	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.08	19.78	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.20	19.90	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	21.99	19.69	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.21	18.91	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.40	19.10	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.52	19.22	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.24	18.94	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.19	17.89	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.29	17.99	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.40	18.10	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.19	17.89	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.17	16.87	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	1RB#0	4.50	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	5.32	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	5.36	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	6.08	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	6.00	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.44	13	PASS

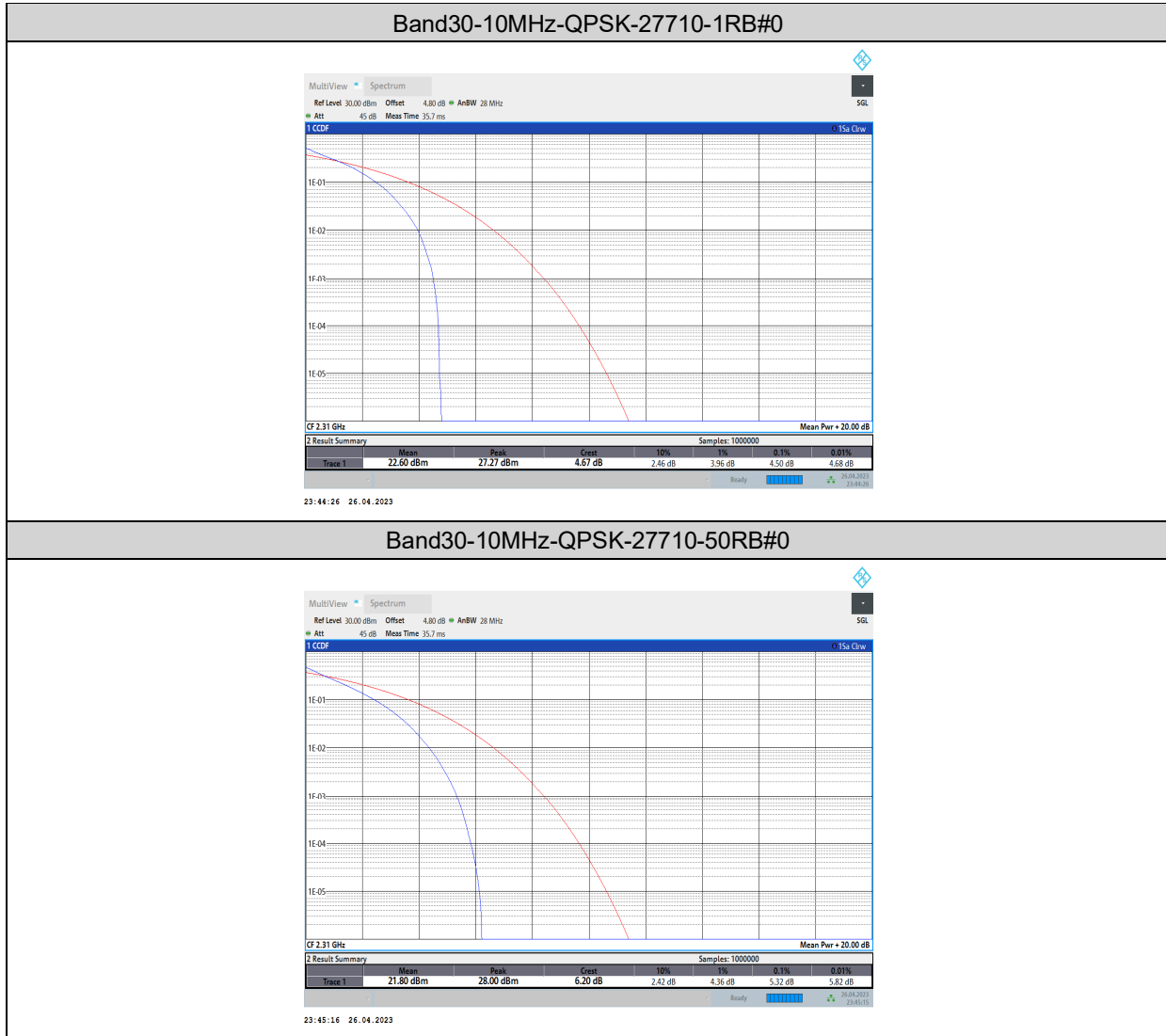


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Test Graphs

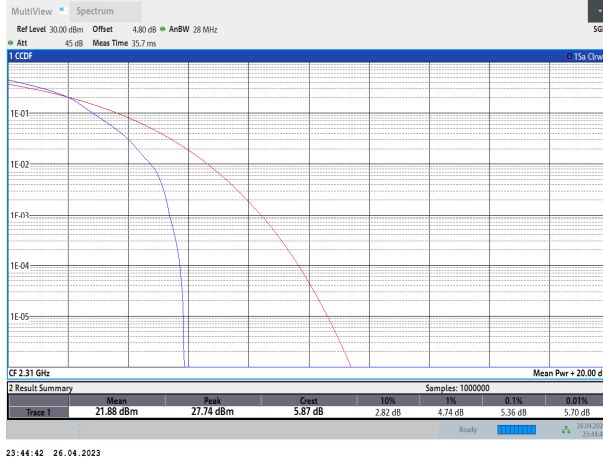


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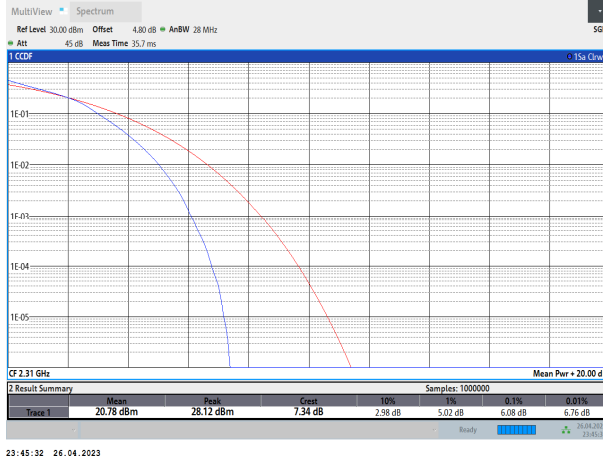
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Band30-10MHz-16QAM-27710-1RB#0



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

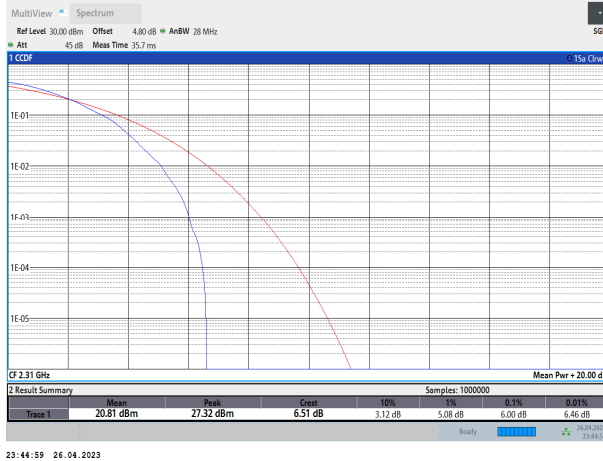


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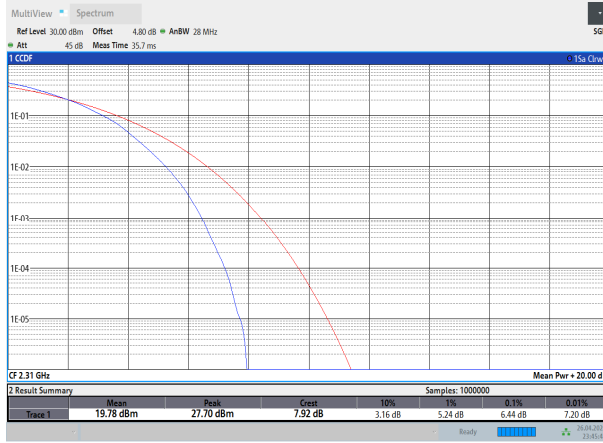
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Band30-10MHz-64QAM-27710-1RB#0



23:44:59 26.04.2023

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



23:45:49 26.04.2023



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Modulation Characteristics

Test Result

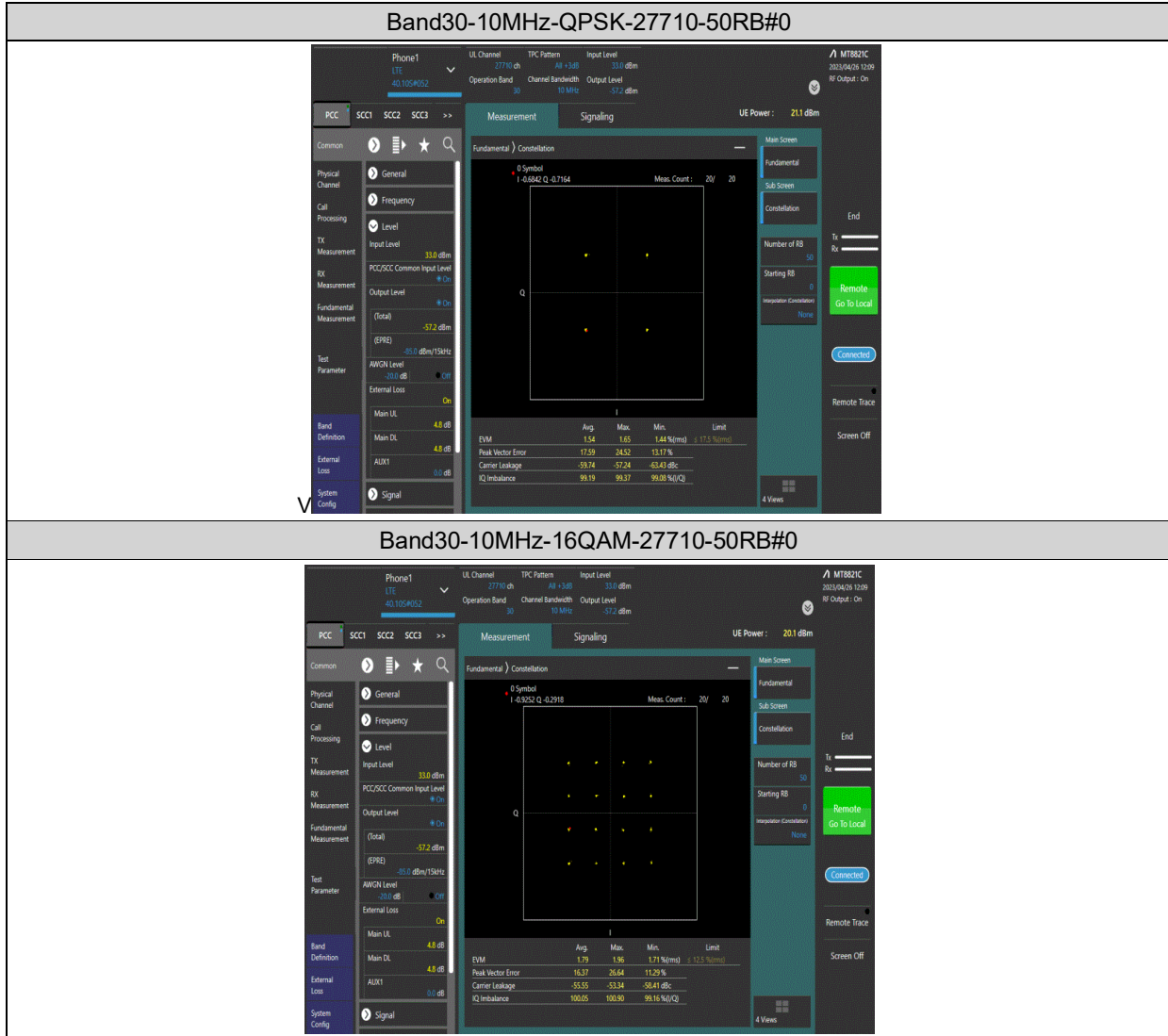
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band30	10MHz	QPSK	27710	50RB#0	PASS	PASS
Band30	10MHz	16QAM	27710	50RB#0	PASS	PASS
Band30	10MHz	64QAM	27710	50RB#0	PASS	PASS



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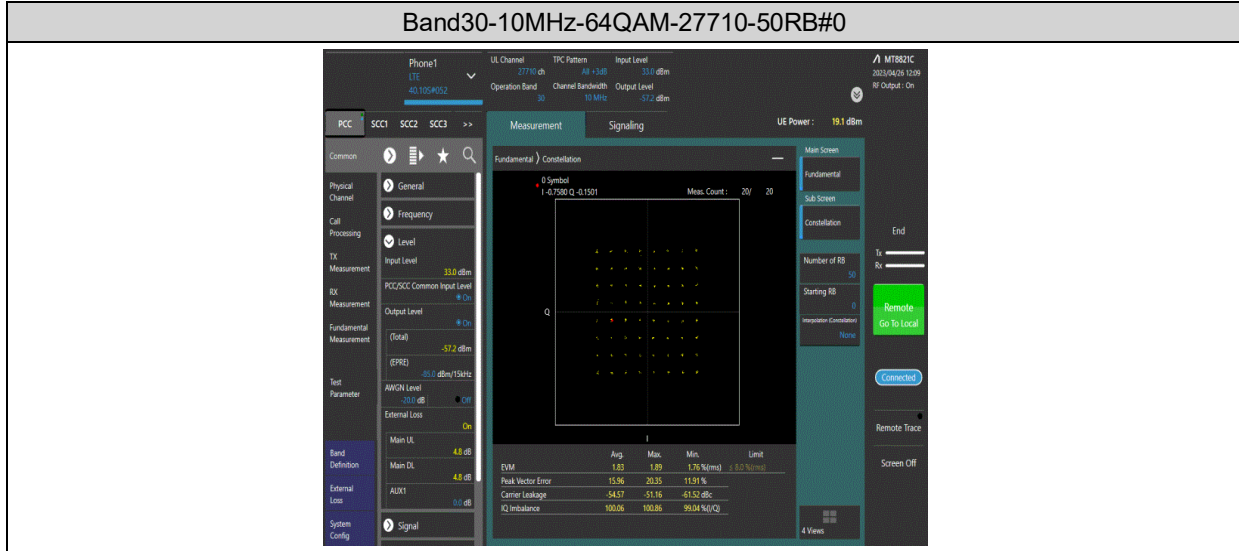
Test Graphs



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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	4.482	4.84	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.485	4.84	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.473	4.84	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.489	4.88	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.484	4.79	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.503	4.85	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.502	4.86	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.505	4.81	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.495	4.84	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.977	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.961	9.57	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.974	9.60	PASS

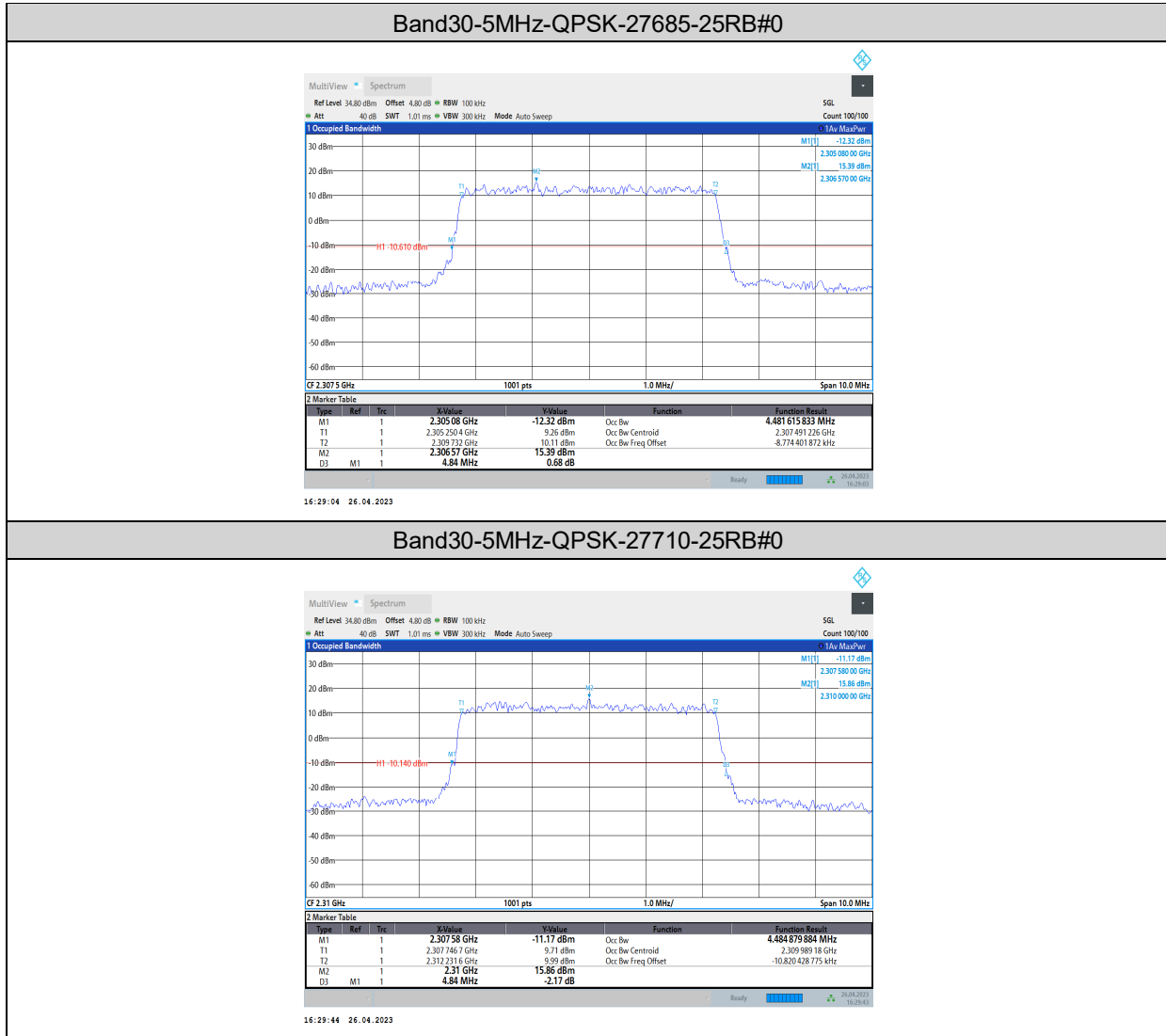


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Test Graphs

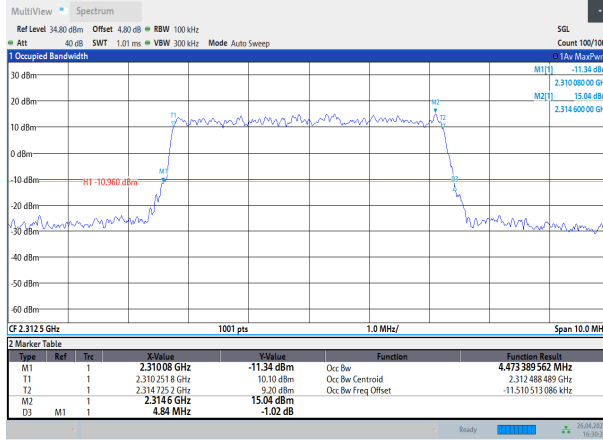


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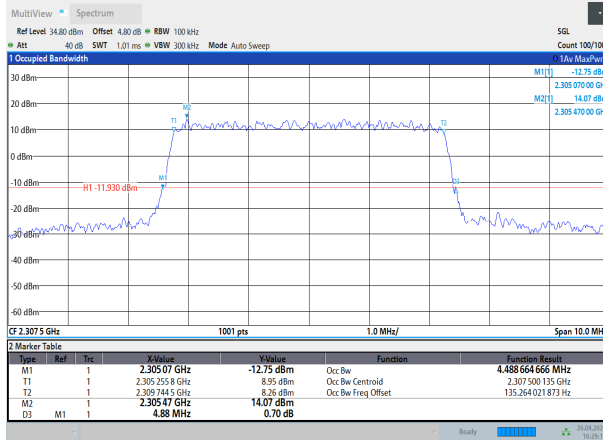
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Band30-5MHz-QPSK-27735-25RB#0



16:30:24 26.04.2023

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



16:29:17 26.04.2023



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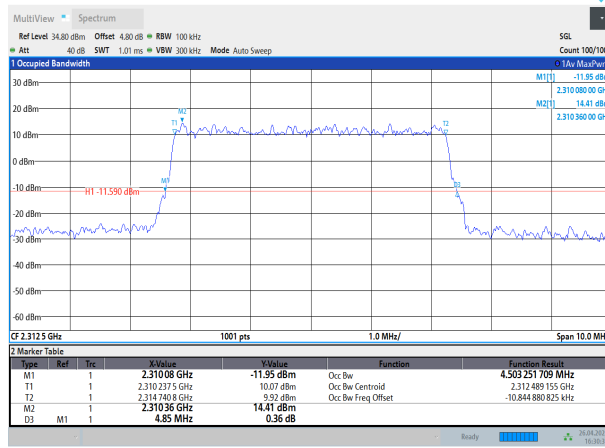
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Band30-5MHz-16QAM-27710-25RB#0



16:29:57 26.04.2023

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



16:30:38 26.04.2023



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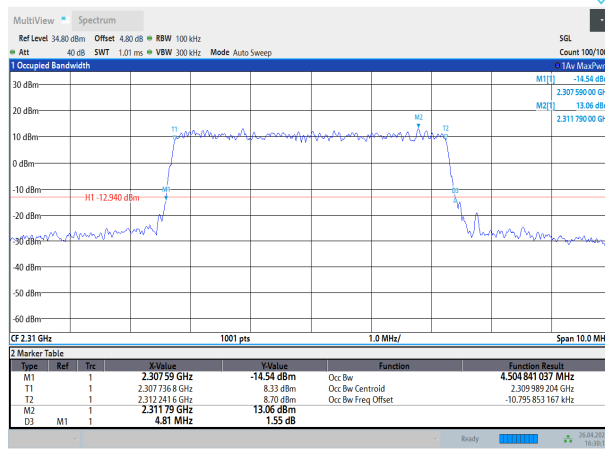
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Band30-5MHz-64QAM-27685-25RB#0



16:29:31 26.04.2023

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



16:30:11 26.04.2023

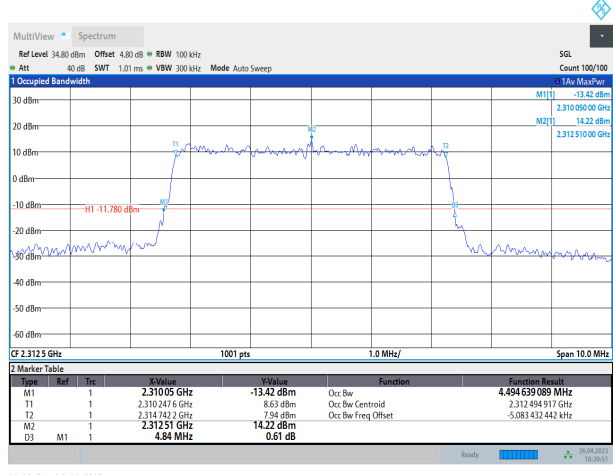


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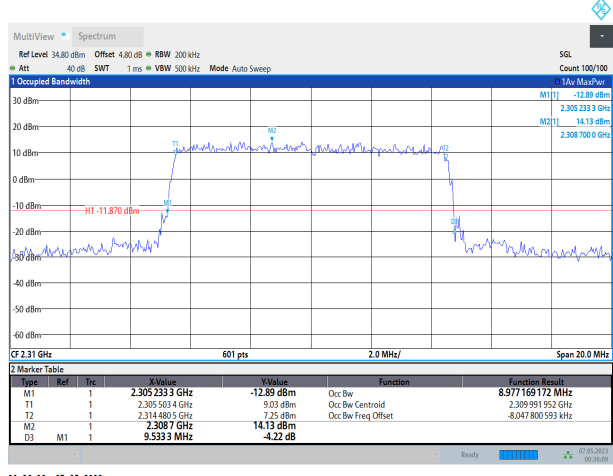
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Band30-5MHz-64QAM-27735-25RB#0



16:30:51 26. 04. 2023

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



00:36:09 07. 05. 2023

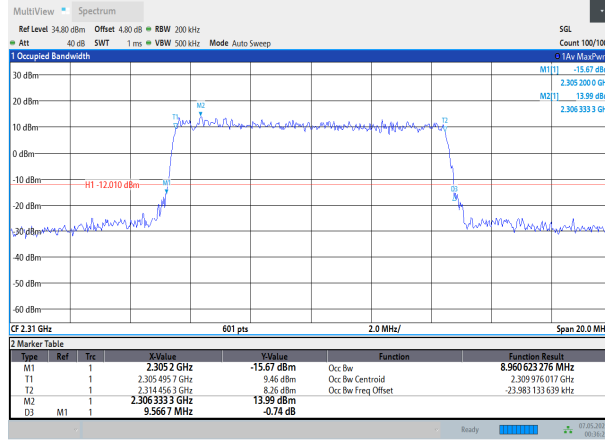


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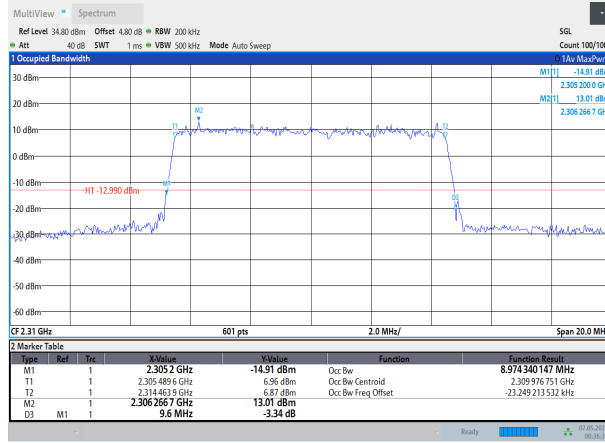
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Band30-10MHz-16QAM-27710-50RB#0



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



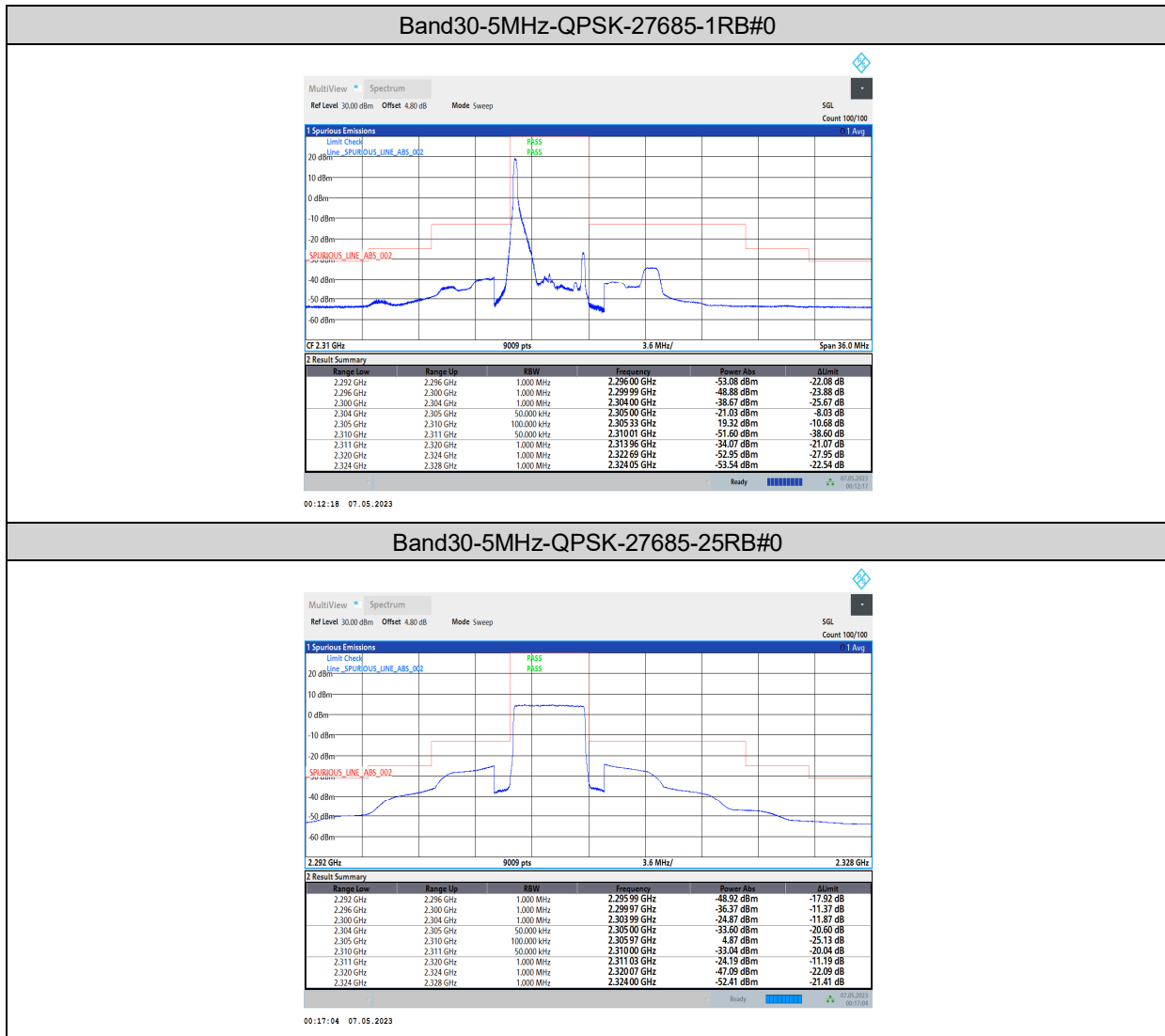
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Band Edge

Test Graphs

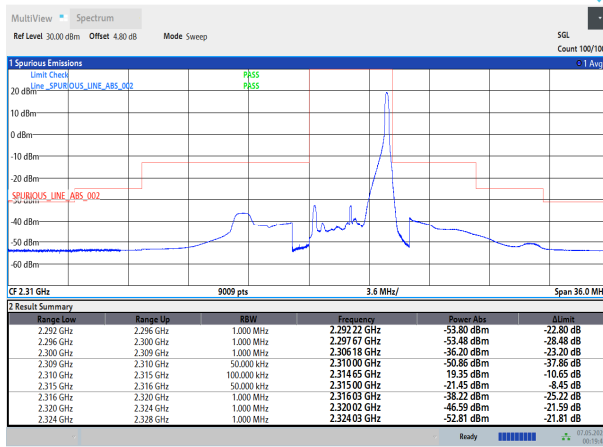


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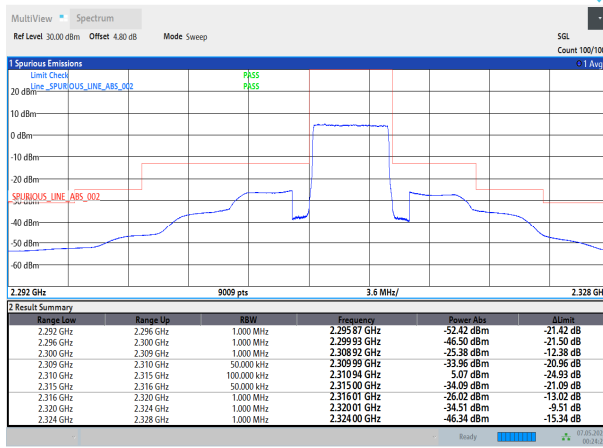
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Band30-5MHz-QPSK-27735-1RB#24



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

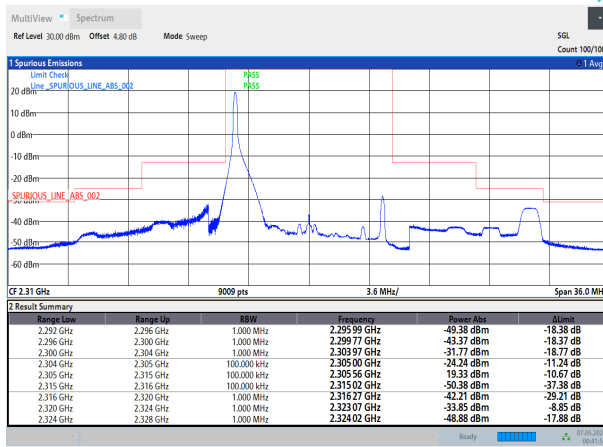


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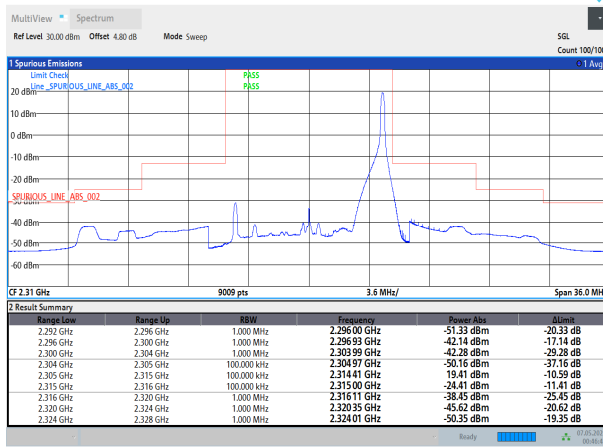
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Band30-10MHz-QPSK-27710-1RB#0



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

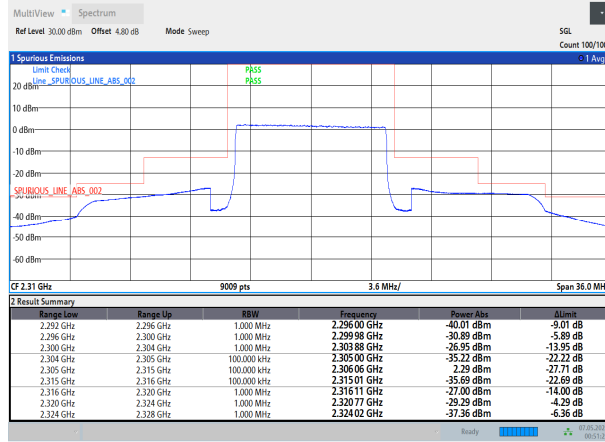


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Band30-10MHz-QPSK-27710-50RB#0



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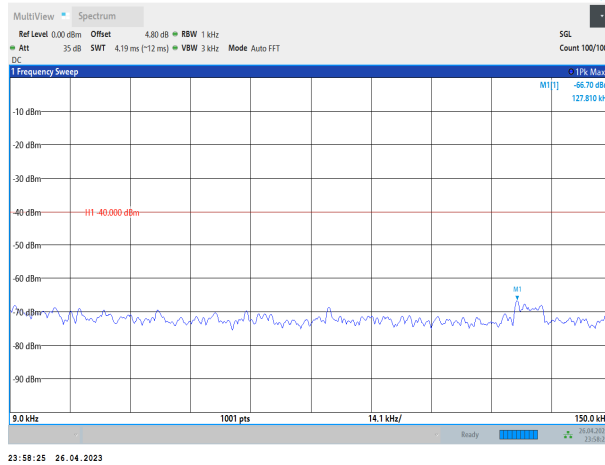
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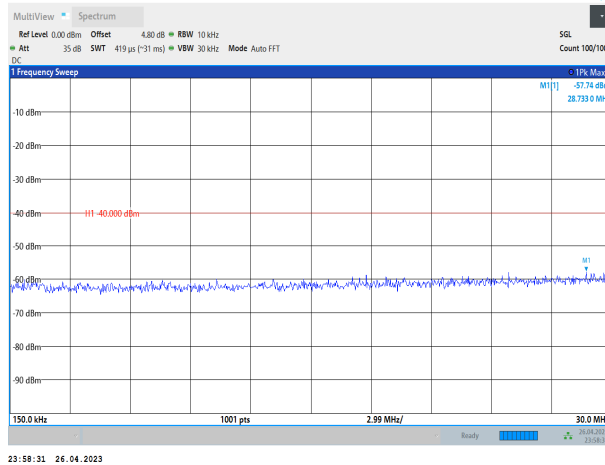
Conducted Spurious Emission

Test Graphs

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



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

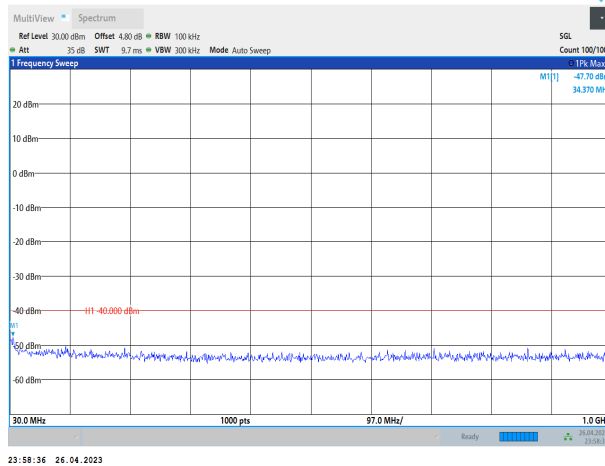


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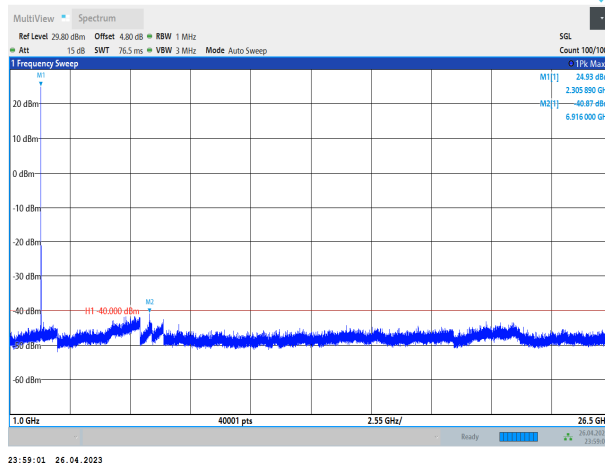
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE B30 10M_ 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	4611	68.07	-45.66	31.74	-41.11	-40.00	1.11	141	59	Horizontal
2	6916.5	53.30	-44.01	35.98	-49.99	-40.00	9.99	126	270	Horizontal
3	9222.3600	46.39	-40.24	38.36	-50.76	-40.00	10.76	256	270	Horizontal
4	11527.9500	35.45	-37.19	38.97	-58.04	-40.00	18.04	251	118	Horizontal
5	13833.5400	35.17	-36.08	39.99	-56.18	-40.00	16.18	185	299	Horizontal
6	16139.1300	36.38	-34.58	37.69	-55.77	-40.00	15.77	150	343	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	4611	65.90	-45.66	31.74	-43.28	-40.00	3.28	218	194	Vertical
2	6916.5	54.14	-44.01	35.98	-49.15	-40.00	9.15	175	225	Vertical
3	9222	54.12	-40.24	38.36	-43.03	-40.00	3.03	142	225	Vertical
4	11527.9500	34.97	-37.19	38.97	-58.52	-40.00	18.52	163	59	Vertical
5	13833.5400	35.51	-36.08	39.99	-55.84	-40.00	15.84	265	317	Vertical
6	16139.1300	36.76	-34.58	37.69	-55.39	-40.00	15.39	192	270	Vertical



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Test Band = LTE B30 5M_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.6800	65.58	-45.66	31.74	-43.60	-40.00	3.60	142	74	Horizontal
2	6916.0200	53.61	-44.01	35.98	-49.68	-40.00	9.68	159	253	Horizontal
3	9221.25	47.78	-40.24	38.36	-49.37	-40.00	9.37	186	60	Horizontal
4	11526.7000	35.35	-37.20	38.97	-58.14	-40.00	18.14	136	256	Horizontal
5	13832.0400	35.00	-36.09	39.99	-56.36	-40.00	16.36	251	314	Horizontal
6	16137.3800	36.59	-34.58	37.69	-55.55	-40.00	15.55	145	73	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	4610.6800	65.06	-45.66	31.74	-44.12	-40.00	4.12	145	239	Vertical
2	6915.75	54.15	-44.01	35.98	-49.14	-40.00	9.14	186	300	Vertical
3	9221.25	49.81	-40.24	38.36	-47.34	-40.00	7.34	192	225	Vertical
4	11526.7000	35.49	-37.20	38.97	-58.00	-40.00	18.00	153	104	Vertical
5	13832.0400	35.85	-36.09	39.99	-55.51	-40.00	15.51	213	16	Vertical
6	16137.3800	36.44	-34.58	37.69	-55.70	-40.00	15.70	203	44	Vertical



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Test Band = LTE B30 5M_ 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	4615.5	67.82	-45.66	31.76	-41.34	-40.00	1.34	125	73	Horizontal
2	6923.25	53.66	-43.97	35.99	-49.58	-40.00	9.58	148	239	Horizontal
3	9231.3600	44.34	-40.24	38.36	-52.80	-40.00	12.80	175	270	Horizontal
4	11539.2000	35.40	-37.15	38.96	-58.05	-40.00	18.05	156	208	Horizontal
5	13847.0400	35.09	-35.95	40.00	-56.12	-40.00	16.12	139	73	Horizontal
6	16154.8800	36.57	-34.60	37.67	-55.61	-40.00	15.61	222	268	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	4615.5	68.37	-45.66	31.76	-40.79	-40.00	0.79	174	242	Vertical
2	6923.25	52.88	-43.97	35.99	-50.36	-40.00	10.36	185	25	Vertical
3	9231	54.53	-40.24	38.36	-42.61	-40.00	2.61	146	222	Vertical
4	11539.2000	35.13	-37.15	38.96	-58.32	-40.00	18.32	153	357	Vertical
5	13847.0400	35.09	-35.95	40.00	-56.12	-40.00	16.12	261	329	Vertical
6	16154.8800	36.41	-34.60	37.67	-55.77	-40.00	15.77	193	59	Vertical



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Test Band = LTE B30 5M_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.6800	67.93	-45.66	31.77	-41.21	-40.00	1.21	222	61	Horizontal
2	6930.75	56.21	-43.93	36.00	-46.98	-40.00	6.98	265	215	Horizontal
3	9241.3200	42.60	-40.24	38.37	-54.53	-40.00	14.53	142	75	Horizontal
4	11551.7000	35.11	-37.10	38.94	-58.30	-40.00	18.30	182	46	Horizontal
5	13862.0400	34.92	-35.81	40.02	-56.13	-40.00	16.13	191	60	Horizontal
6	16172.3800	36.32	-34.61	37.65	-55.90	-40.00	15.90	143	106	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	4620.6800	66.30	-45.66	31.77	-42.84	-40.00	2.84	142	239	Vertical
2	6930.75	51.74	-43.93	36.00	-51.45	-40.00	11.45	153	284	Vertical
3	9241.3200	47.69	-40.24	38.37	-49.44	-40.00	9.44	261	44	Vertical
4	11551.7000	34.66	-37.10	38.94	-58.75	-40.00	18.75	185	209	Vertical
5	13862.0400	34.32	-35.81	40.02	-56.73	-40.00	16.73	153	104	Vertical
6	16172.3800	35.82	-34.61	37.65	-56.40	-40.00	16.40	230	359	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:

 $AF = \text{Antenna Factor (dB/m)}$
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Pre-amplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$


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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	-11.50	-0.004978	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-4.10	-0.001775	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-9.20	-0.003983	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-11.00	-0.004762	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-1.80	-0.000779	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	-1.20	-0.000584	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-2.00	-0.000866	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-3.40	-0.001472	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-6.40	-0.002771	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-0.50	-0.000216	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	4.50	0.001948	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-7.30	-0.003160	PASS

---End of Attachment---



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