

Report No.: SEWM2206000075RG01

Rev.: 01

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Appendix B.11

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	23.79	23.49	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.5	23.2	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.23	22.93	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.46	22.16	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.27	22.97	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.49	23.19	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	23.23	22.93	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.45	22.15	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.26	22.96	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.45	23.15	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	23.16	22.86	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	22.47	22.17	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.56	22.26	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.76	22.46	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.39	22.09	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.4	21.1	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.44	22.14	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.61	22.31	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.53	22.23	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	21.38	21.08	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.49	22.19	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.73	22.43	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.47	22.17	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	21.38	21.08	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	21.36	21.06	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.52	21.22	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.63	21.33	23.98	PASS



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Band30	5MHz	64QAM	27685	25RB#0	21.32	21.02	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	22.11	21.81	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	22.42	22.12	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	22.19	21.89	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	22.2	21.9	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	22.25	21.95	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	22.48	22.18	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	22.17	21.87	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	22.19	21.89	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.9	23.6	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.58	23.28	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.26	22.96	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	22.53	22.23	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	23.02	22.72	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.69	22.39	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.48	22.18	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	21.47	21.17	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	22.52	22.22	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	22.41	22.11	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	22.25	21.95	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	22.28	21.98	23.98	PASS



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EIRP Density Result

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5MHz)	EIRP Density Result (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	23.77	23.47	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.95	23.65	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.78	23.48	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.77	23.47	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.96	23.66	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	23.54	23.24	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.68	23.38	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.94	23.64	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	23.70	23.4	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.88	23.58	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.89	23.59	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.78	23.48	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#0	22.47	22.17	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.84	22.54	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.62	22.32	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.38	22.08	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.67	22.37	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.10	21.8	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.31	22.01	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.56	22.26	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.23	21.93	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.55	22.25	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.02	21.72	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.22	21.92	23.98	PASS



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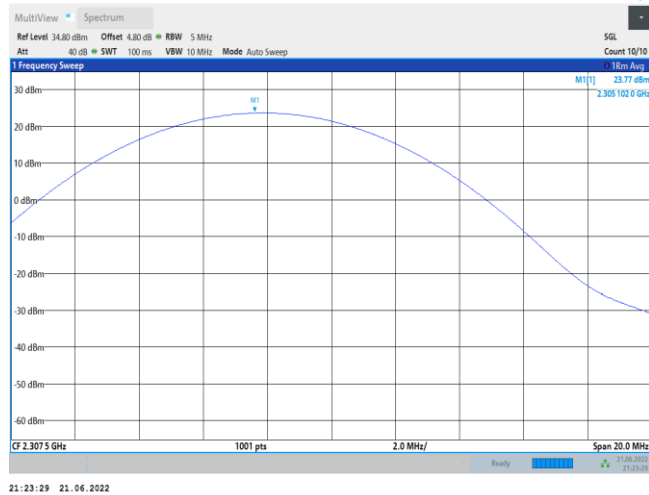
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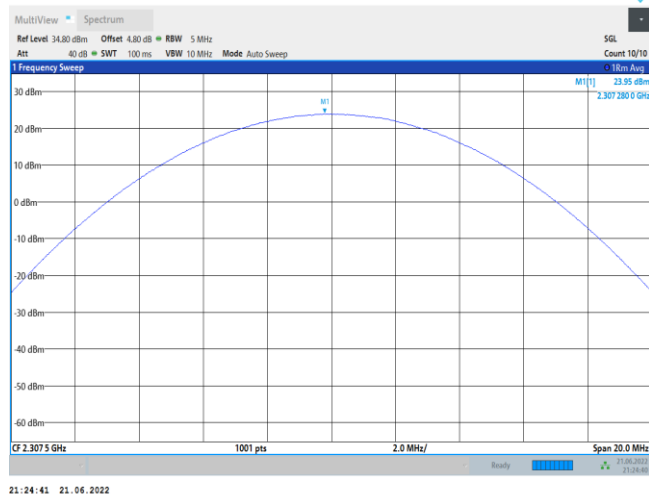
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Test plots

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



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

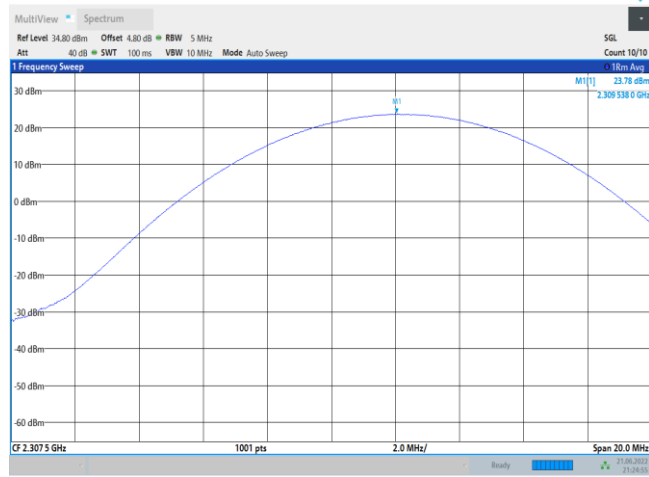


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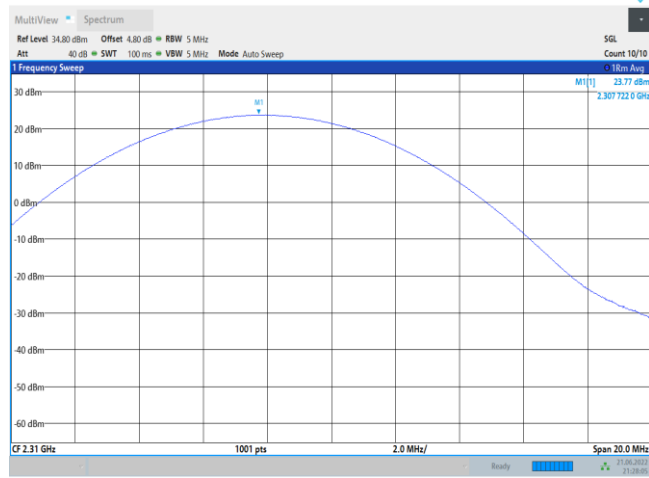
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Band30-5MHz-QPSK-27685-1RB#24



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



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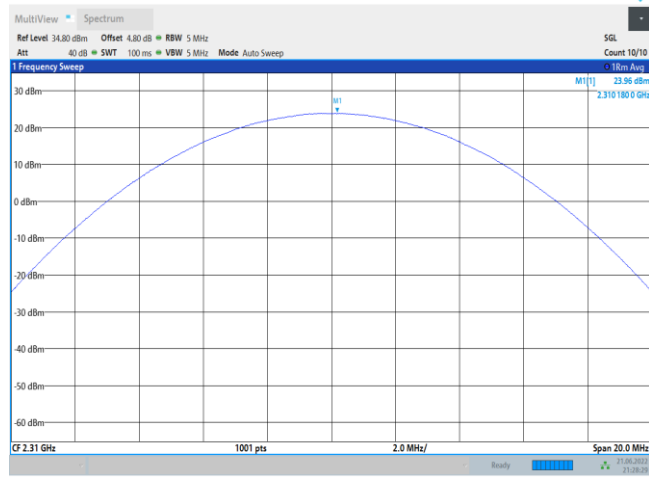
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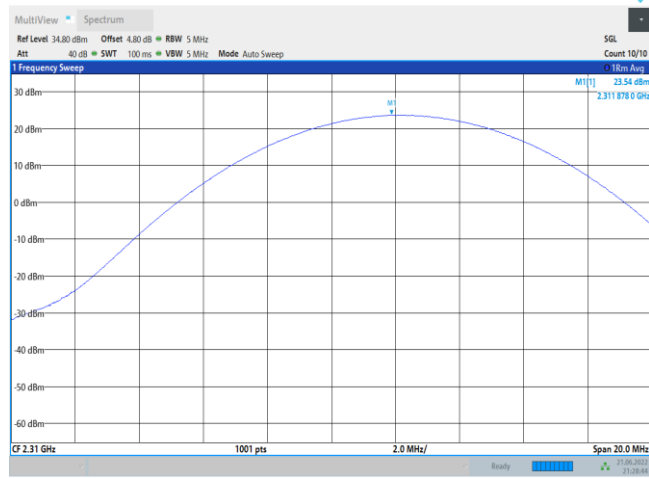
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Band30-5MHz-QPSK-27710-1RB#12



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Band30-5MHz-QPSK-27710-1RB24



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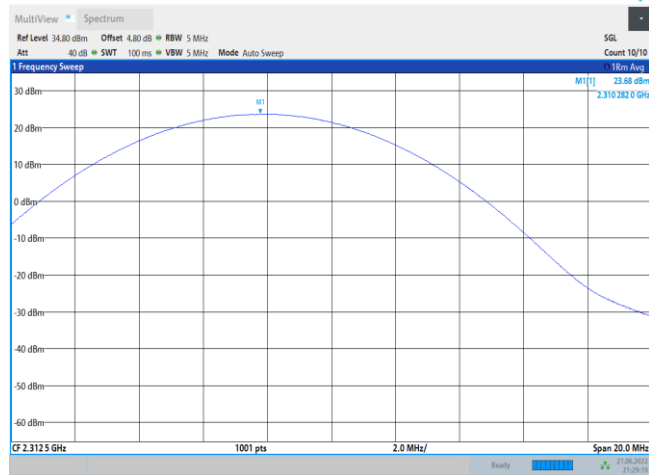
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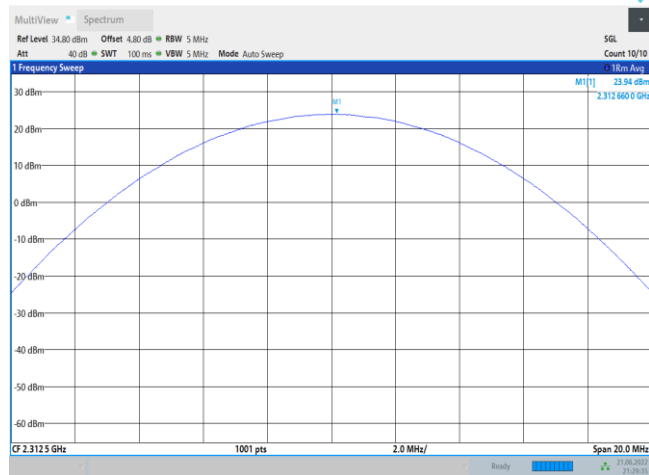
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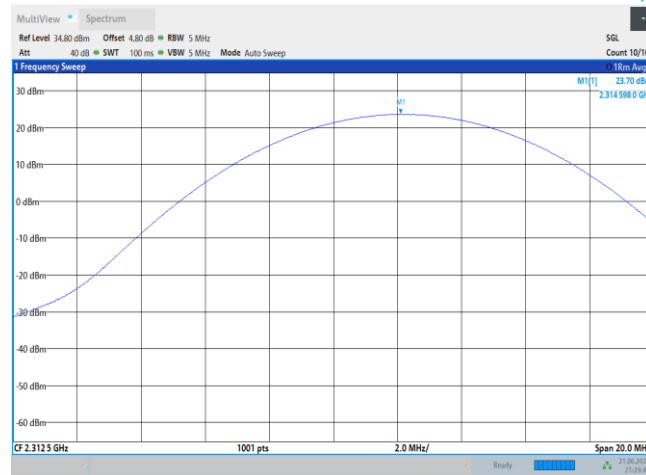


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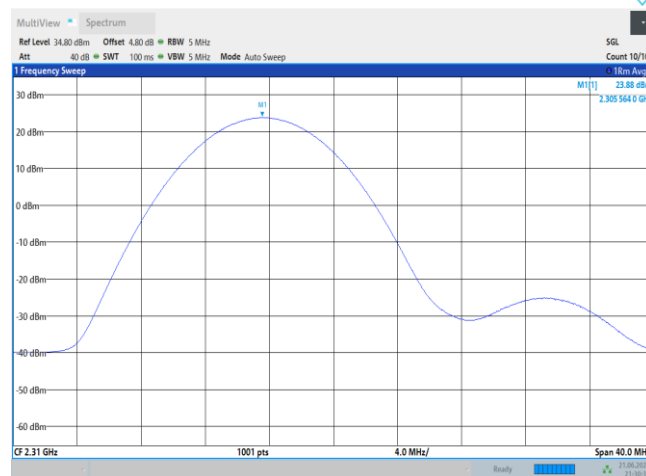
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Band30-5MHz-QPSK-27735-1RB#24



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



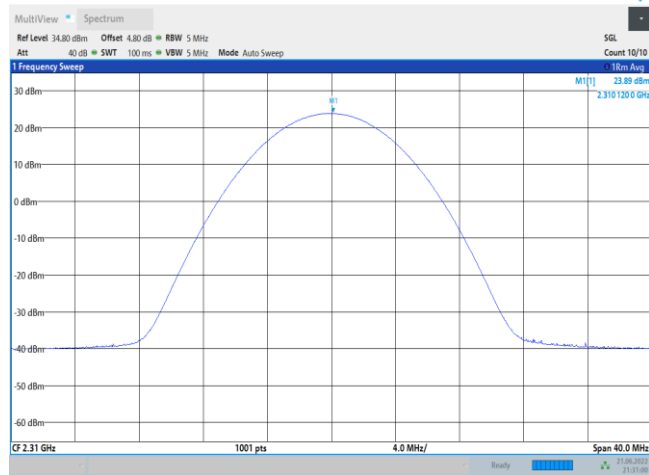
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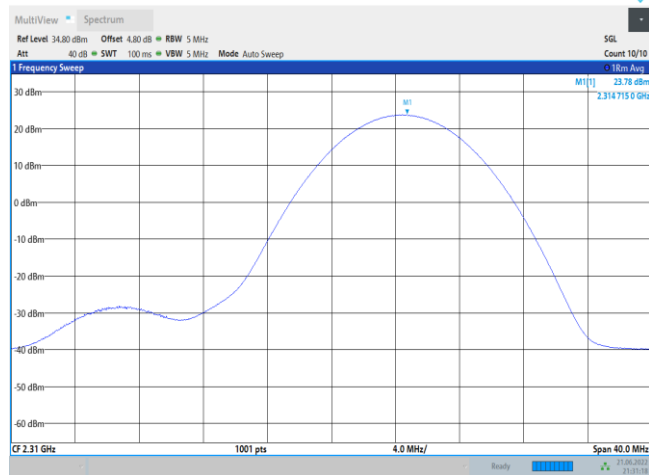
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Band30-10MHz-QPSK-27710-1RB#49



21:31:18 21.06.2022



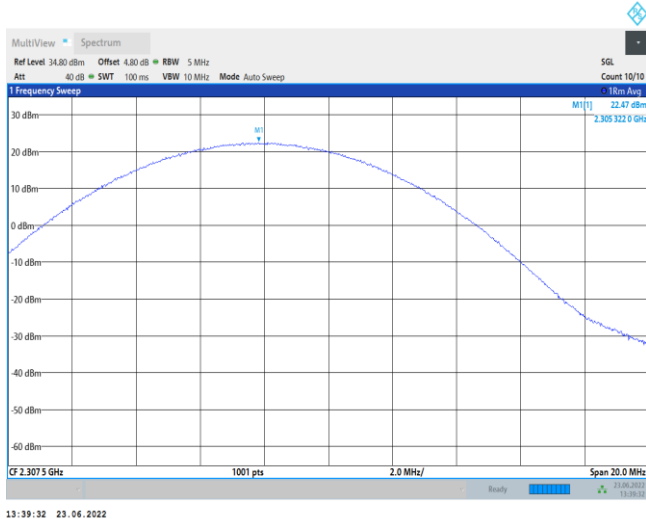
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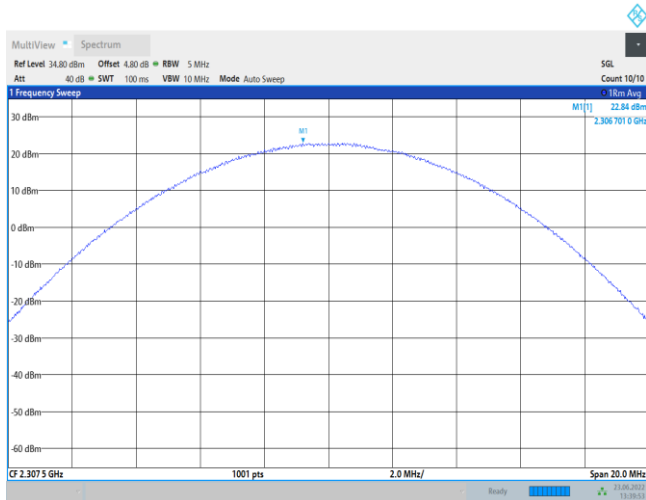
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Band30-5MHz-QPSK-27685-1RB#0



13:39:32 23.06.2022

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

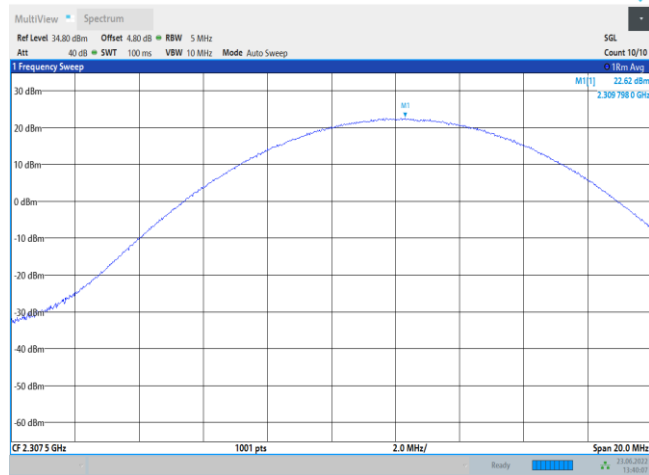


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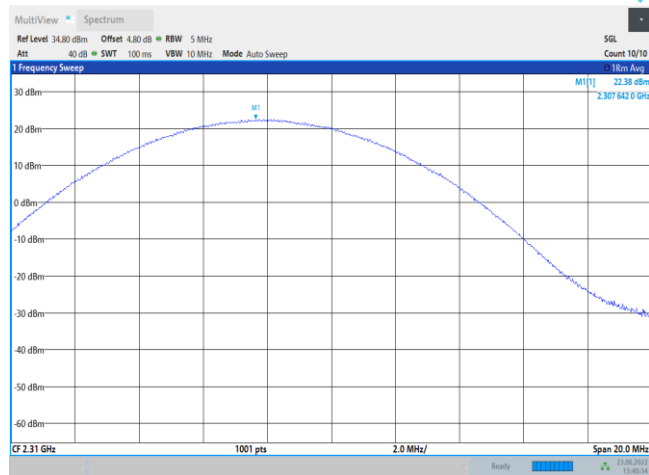
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Band30-5MHz-QPSK-27685-1RB#24



13:40:07 23.06.2022

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

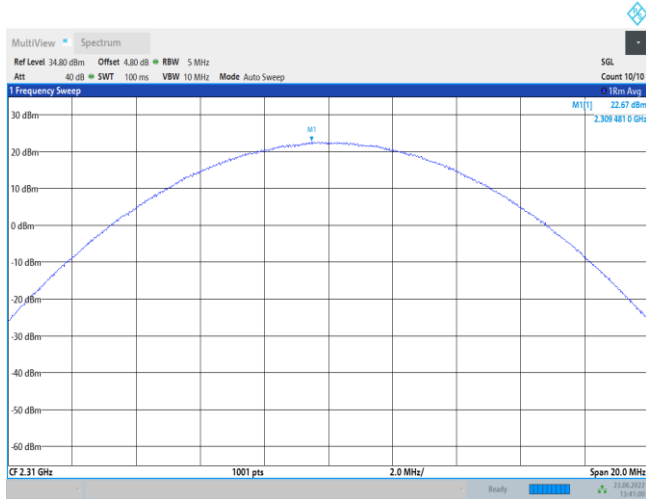


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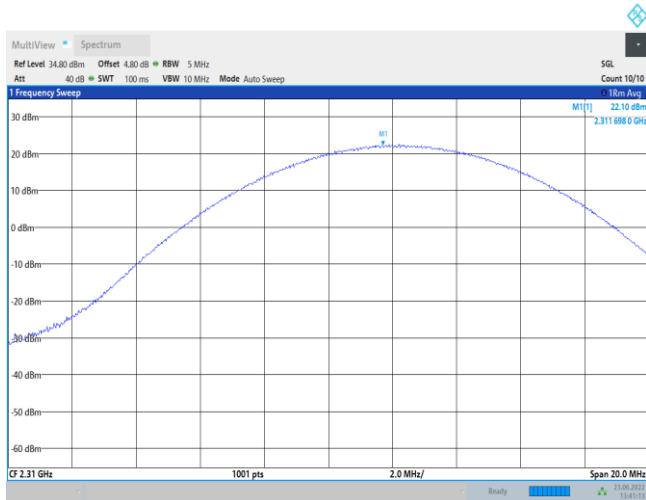
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13:41:01 23.06.2022

Band30-5MHz-QPSK-27710-1RB24

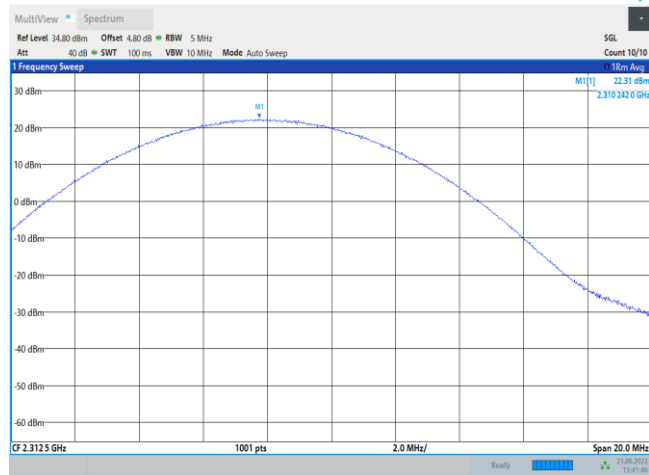


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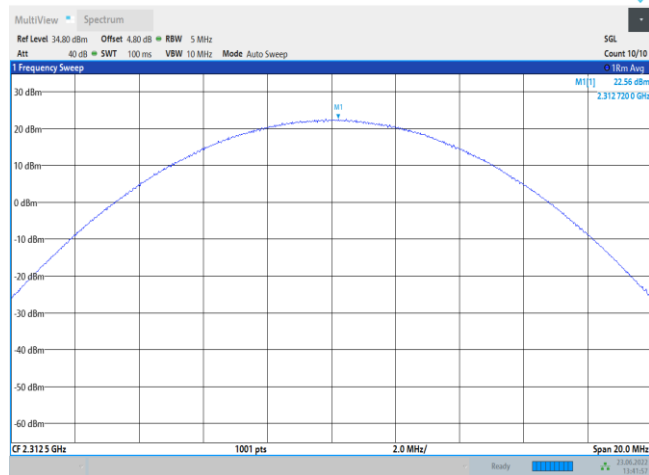


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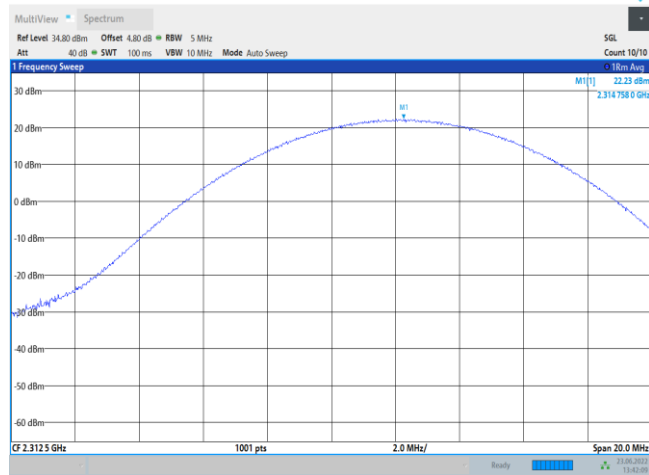
Band30-5MHz-QPSK-27735-25RB#0



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

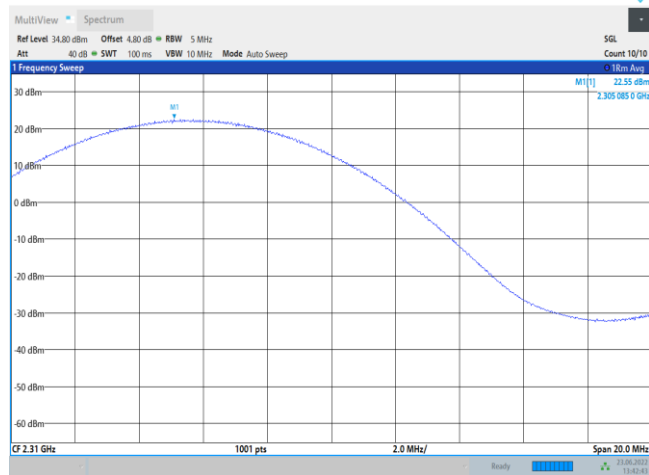


Band30-5MHz-QPSK-27735-1RB#24



13:42:09 23.06.2022

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

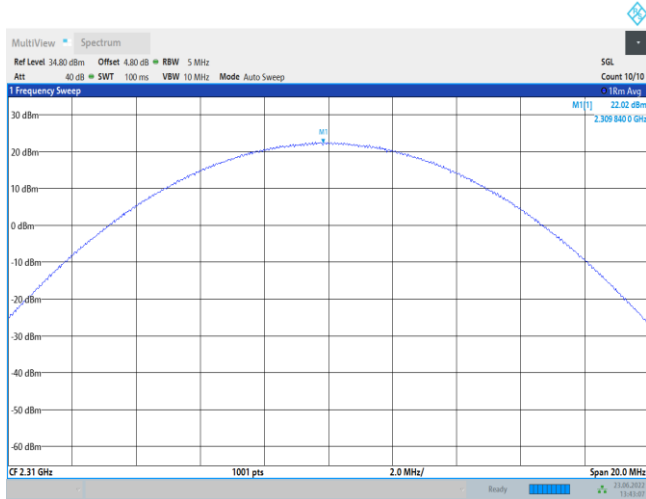


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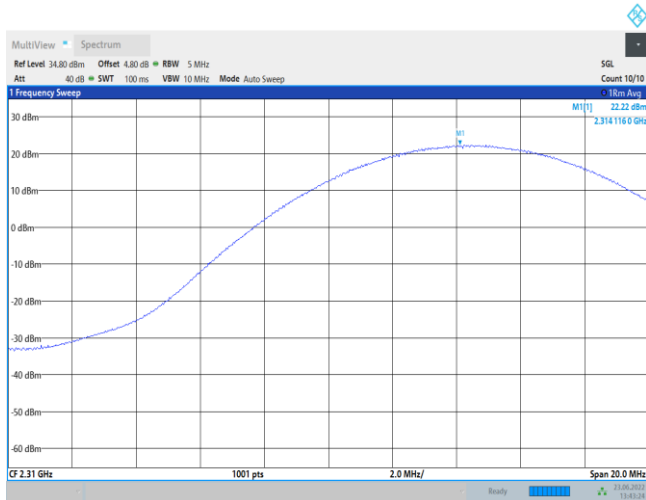
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Band30-10MHz-QPSK-27710-1RB#24



13:43:07 23.06.2022

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



13:43:24 23.06.2022



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Report No.: SEWM2206000075RG01

Rev.: 01

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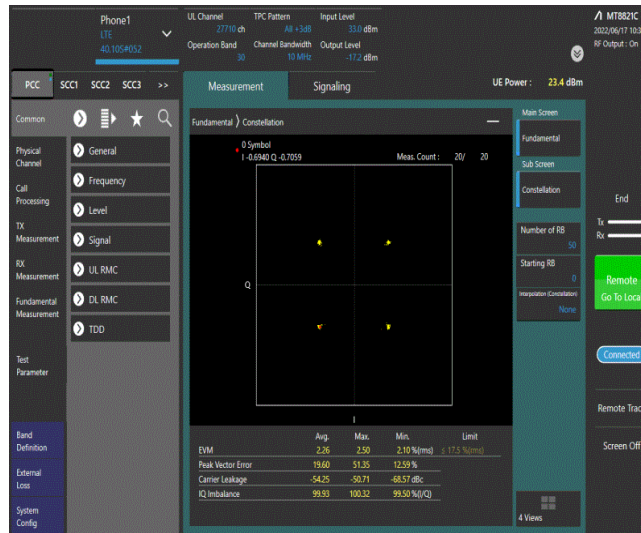
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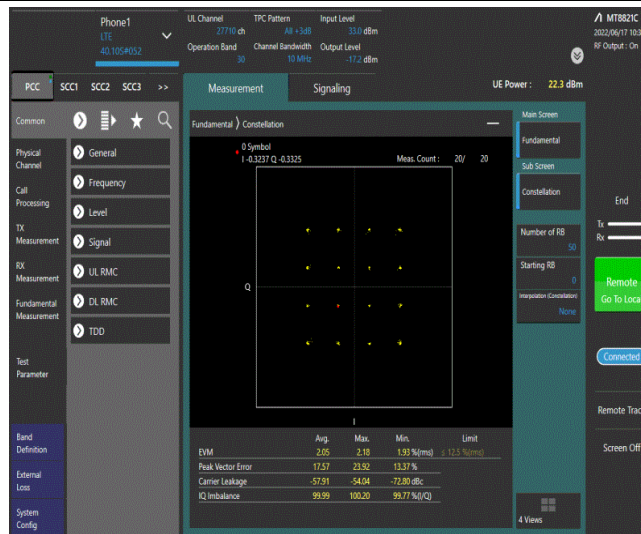
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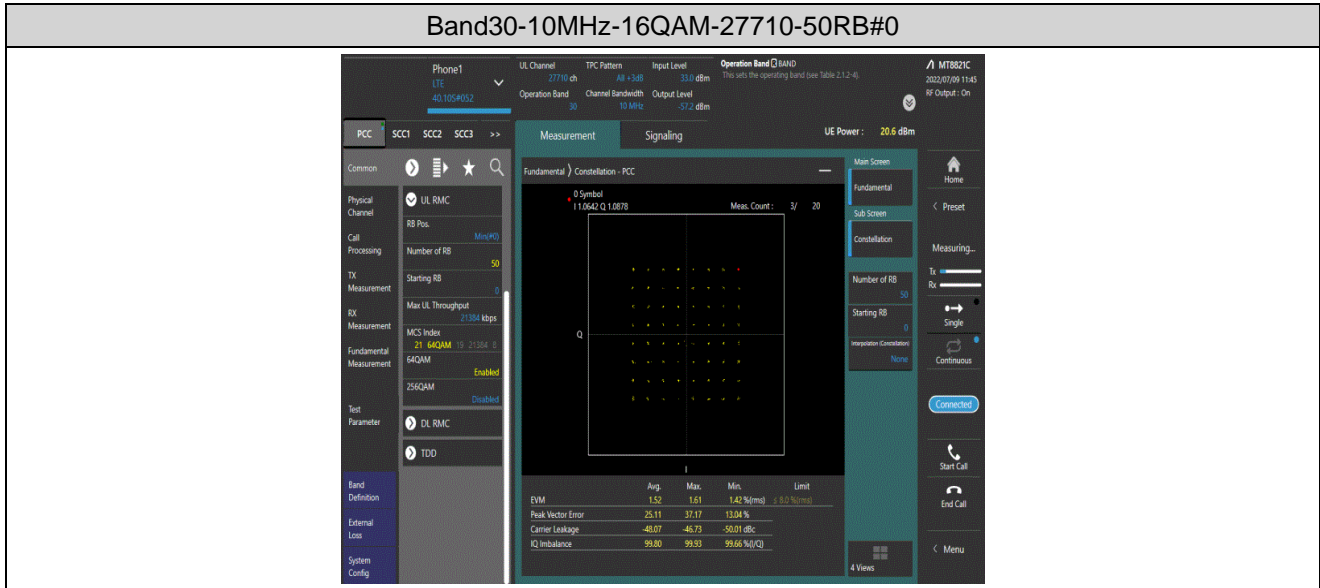
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Band30-10MHz-QPSK-27710-50RB#0



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





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Report No.: SEWM2206000075RG01

Rev.: 01

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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	5.22	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.68	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	5.22	13	PASS



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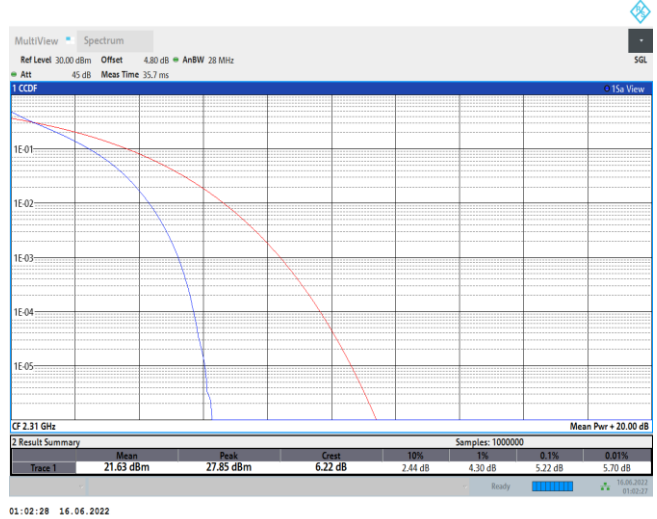
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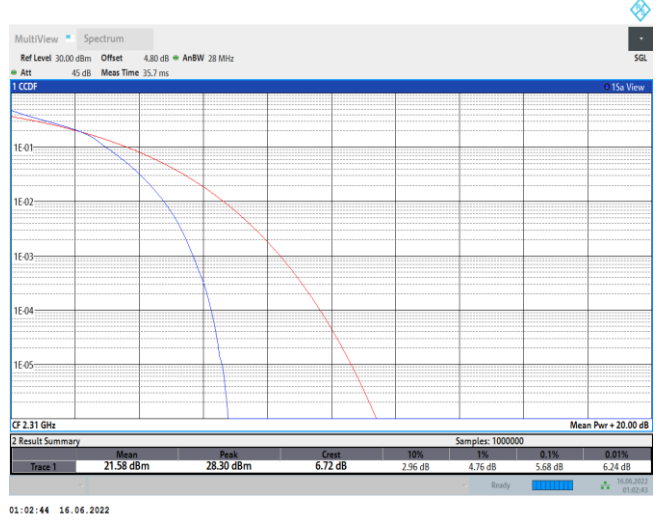
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Test Graphs

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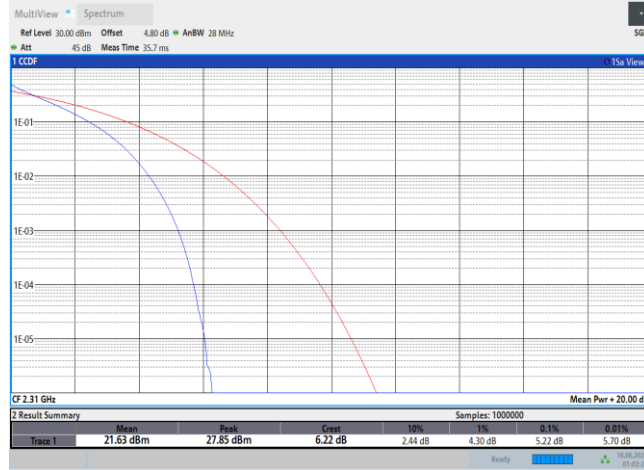


Band30-10MHz-16QAM-27710-50RB#0



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



01:02:28 16.06.2022



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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	4.501	4.78	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.499	4.79	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.499	4.79	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.497	4.78	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.5	4.77	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.495	4.77	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.511	4.78	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.508	4.78	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.51	4.78	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.984	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.991	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.982	9.53	PASS



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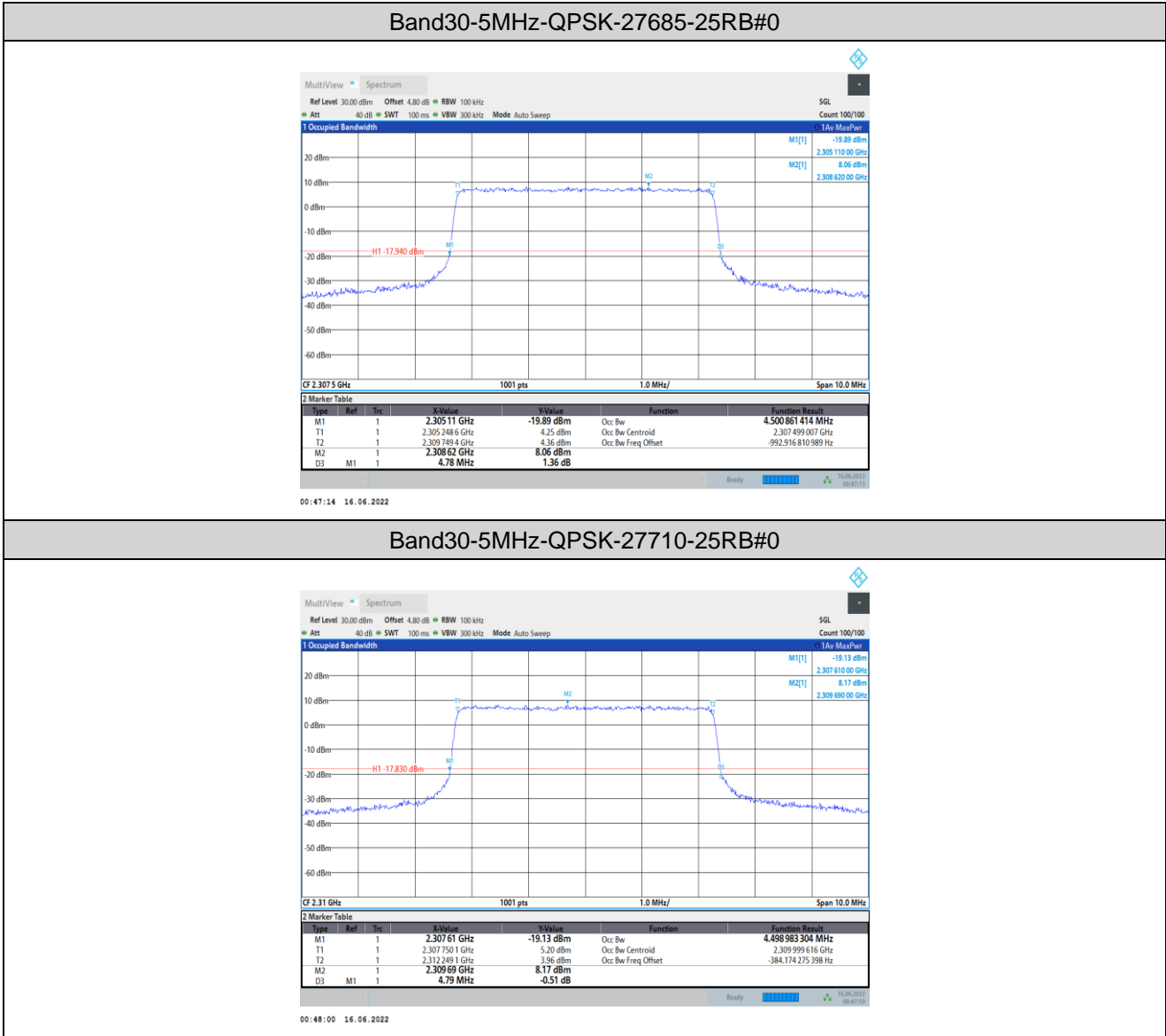
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Test Graphs



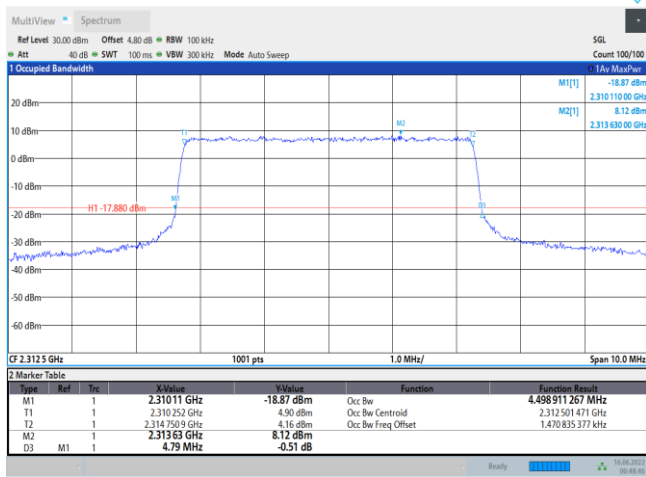
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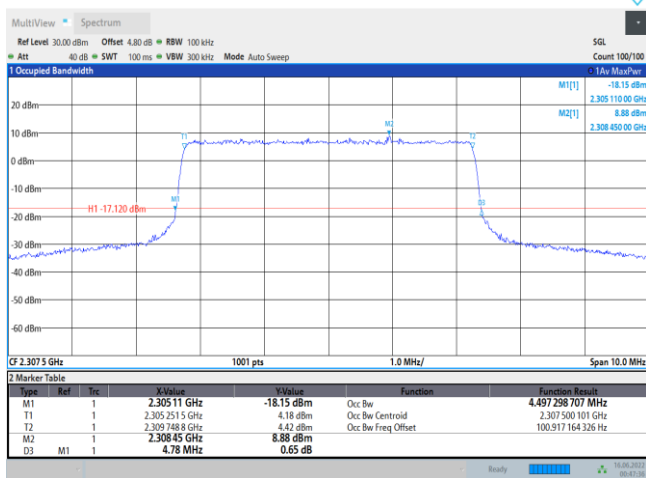
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Band30-5MHz-QPSK-27735-25RB#0



00:48:47 16.06.2022

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

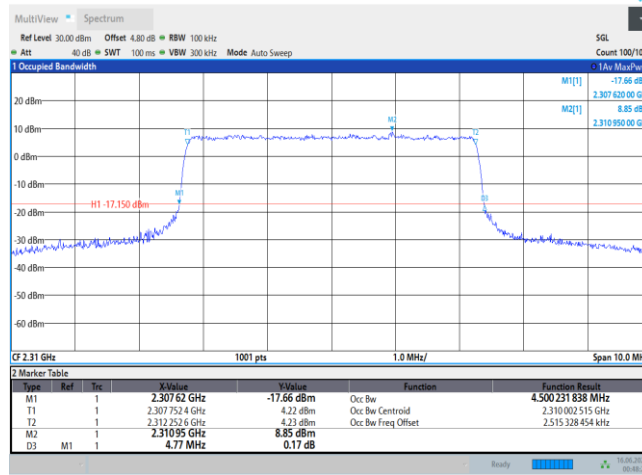


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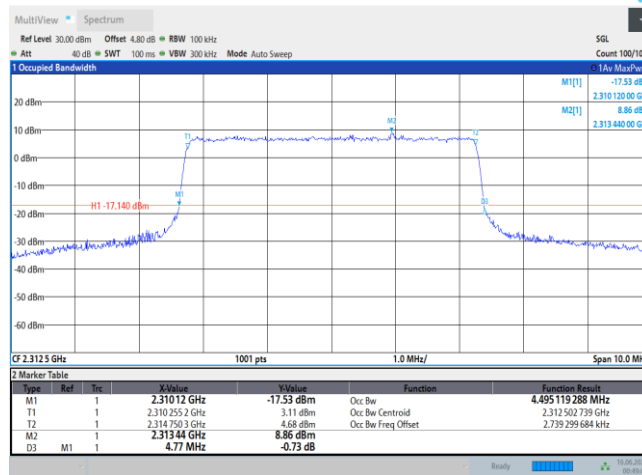
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Band30-5MHz-16QAM-27710-25RB#0



00:48:23 16.06.2022

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



00:49:10 16.06.2022



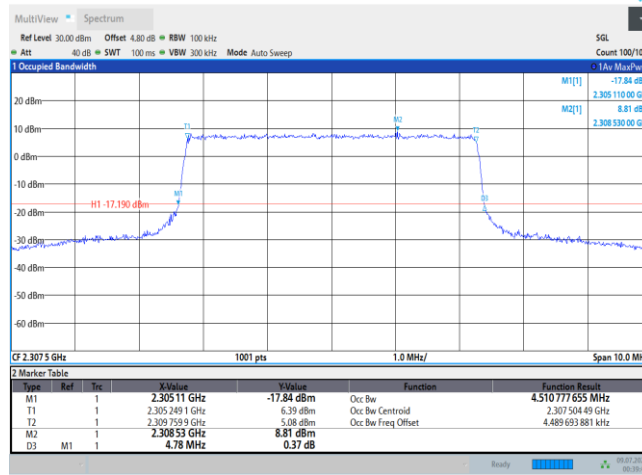
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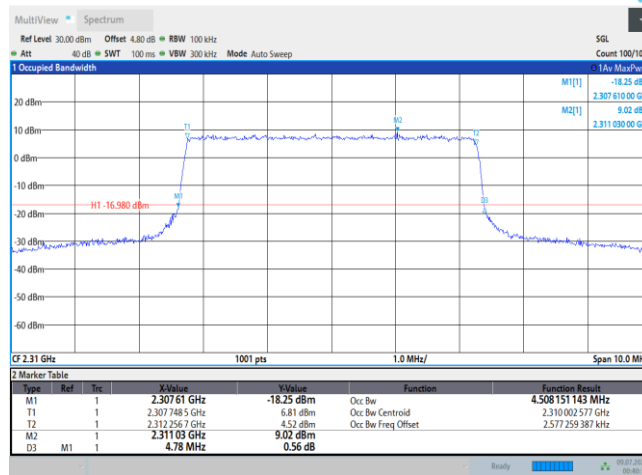
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Band30-5MHz-64QAM-27685-25RB#0



00:39:49 09.07.2022

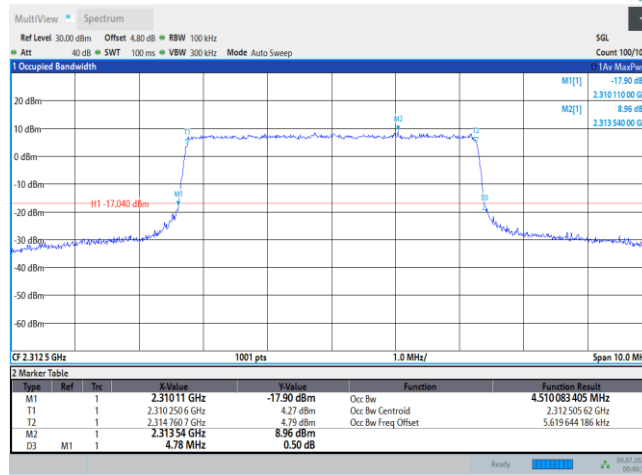
Band30-5MHz-64QAM-27710-25RB#0



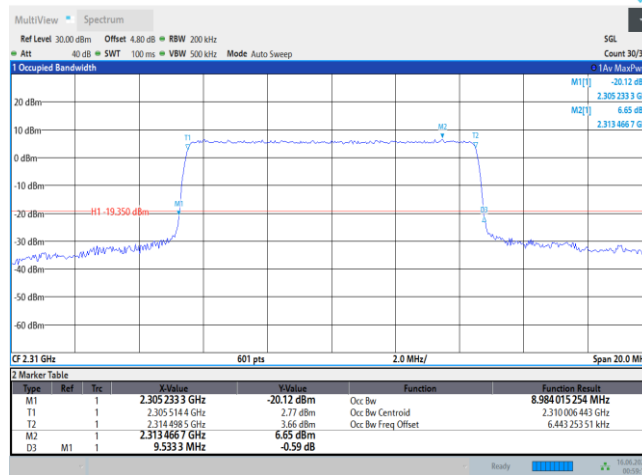
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Band30-5MHz-64QAM-27735-25RB#0



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

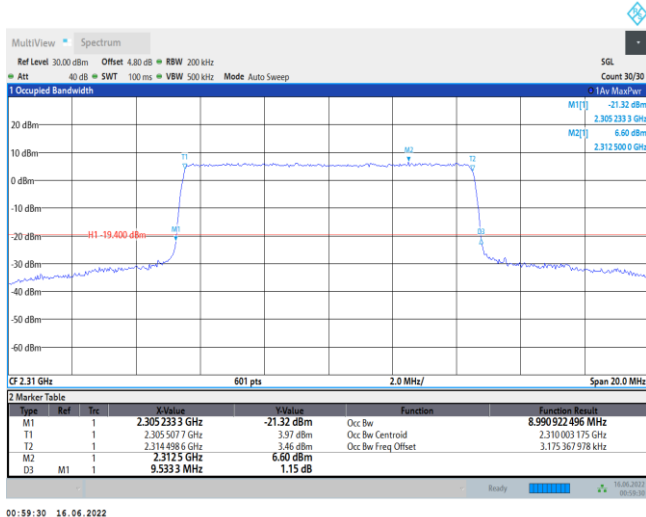


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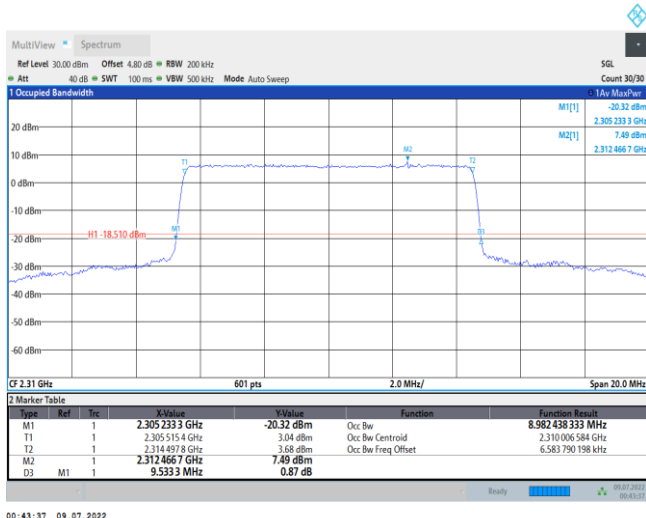
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Band30-10MHz-16QAM-27710-50RB#0



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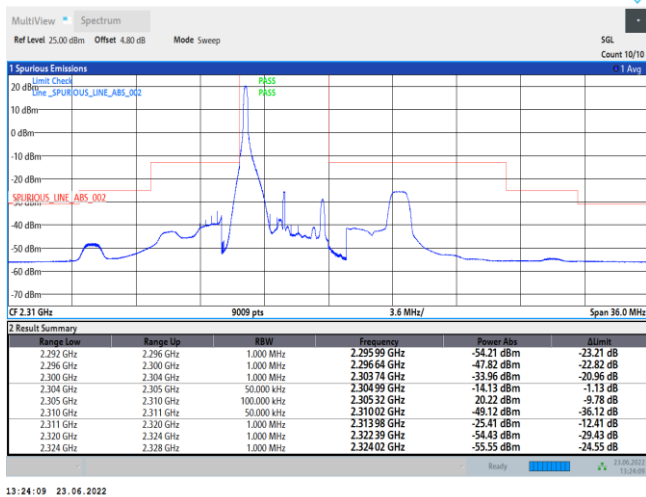
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Band Edge

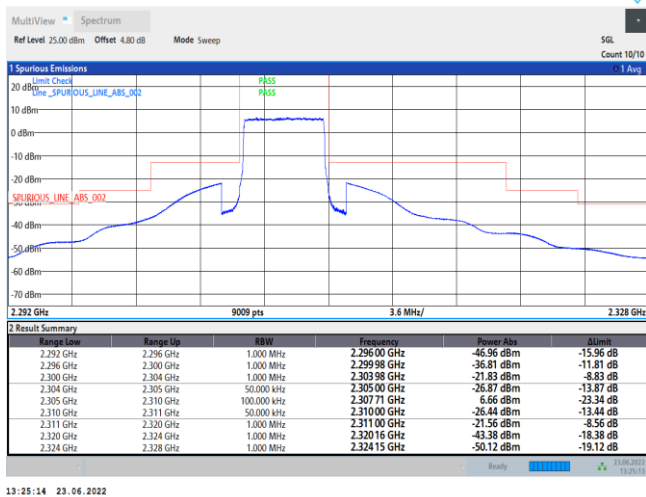
Test Graphs

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



13:24:09 23.06.2022

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



13:25:14 23.06.2022



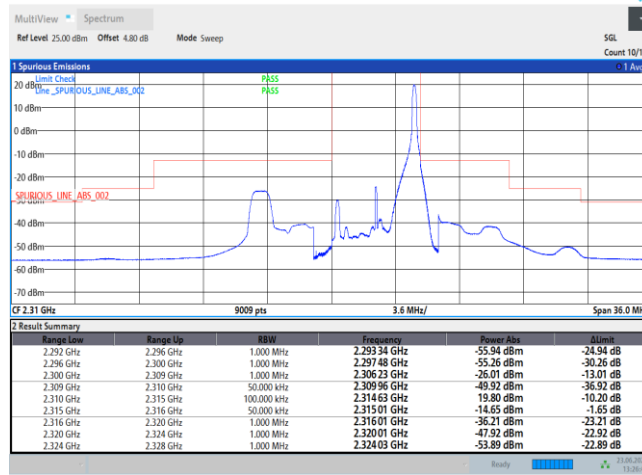
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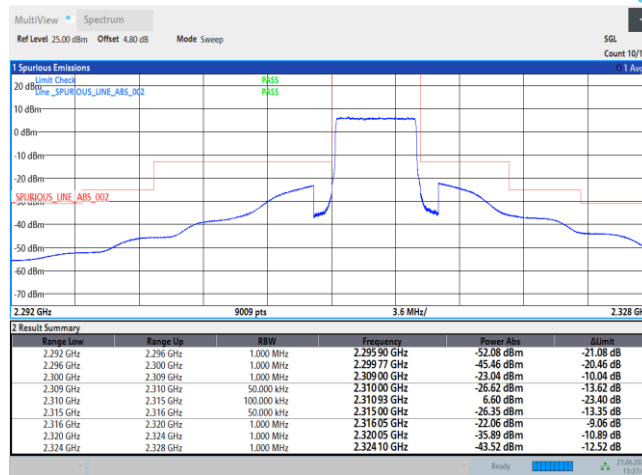
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Band30-5MHz-QPSK-27735-1RB#24



13:26:42 23.06.2022

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



13:27:41 23.06.2022

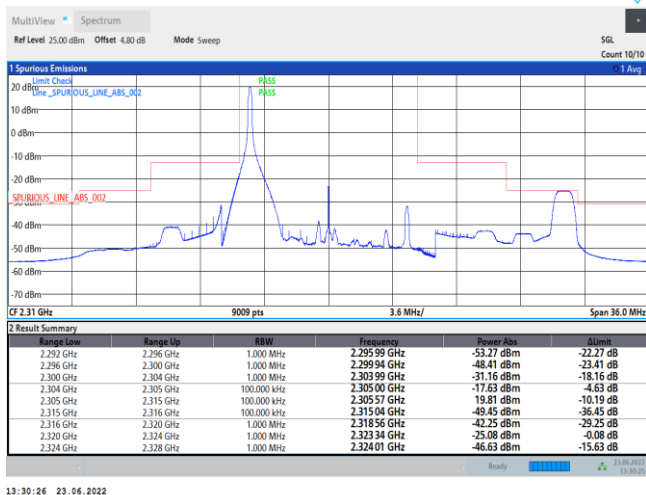


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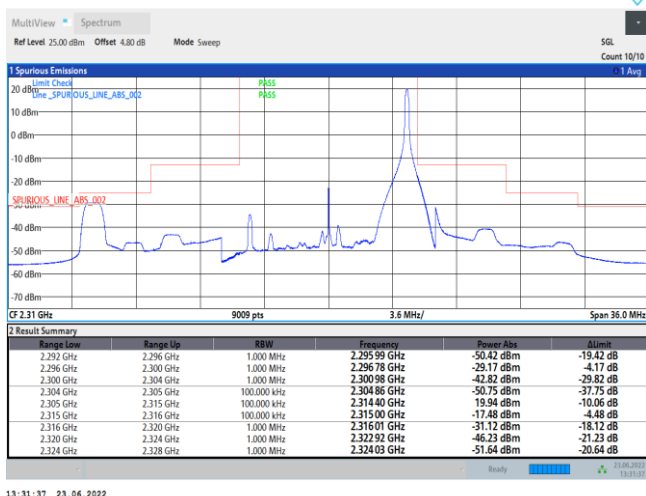
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Band30-10MHz-QPSK-27710-1RB#0



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

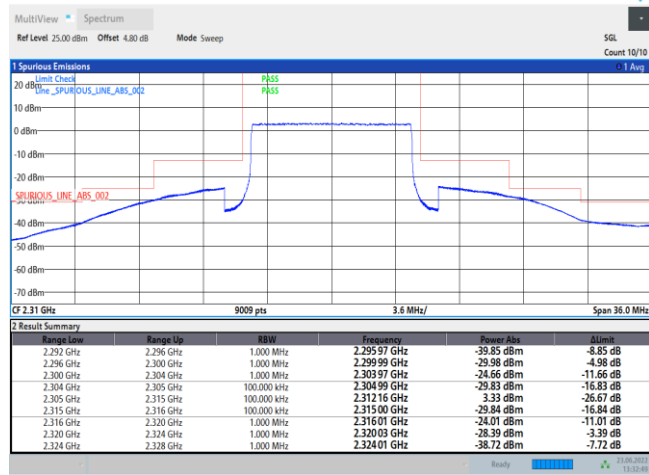


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Band30-10MHz-QPSK-27710-50RB#0



13:32:50 23.06.2022



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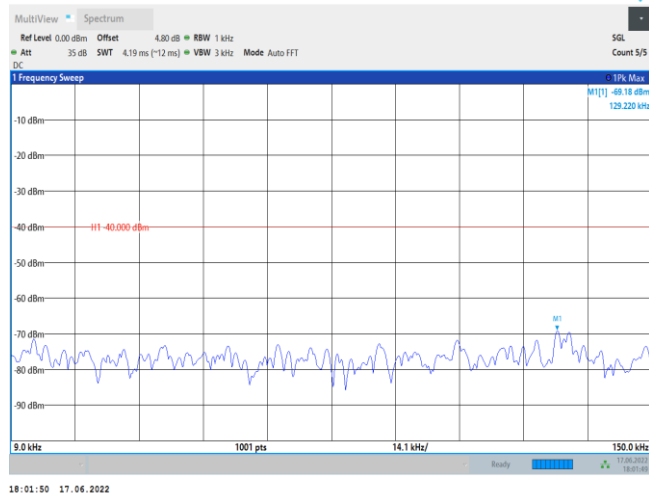
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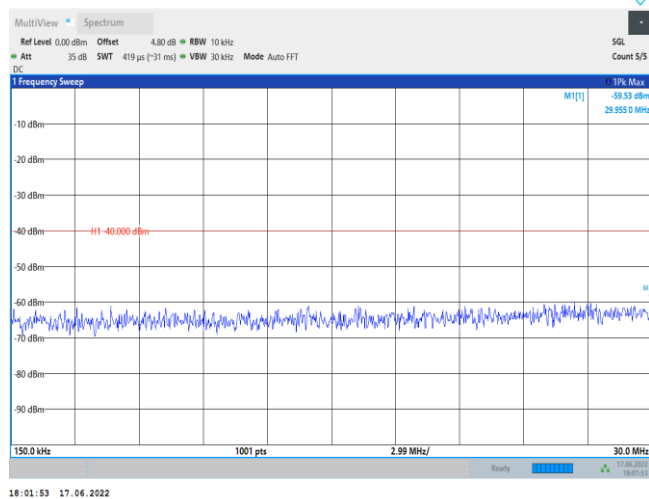
Conducted Spurious Emission

Test Graphs

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



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

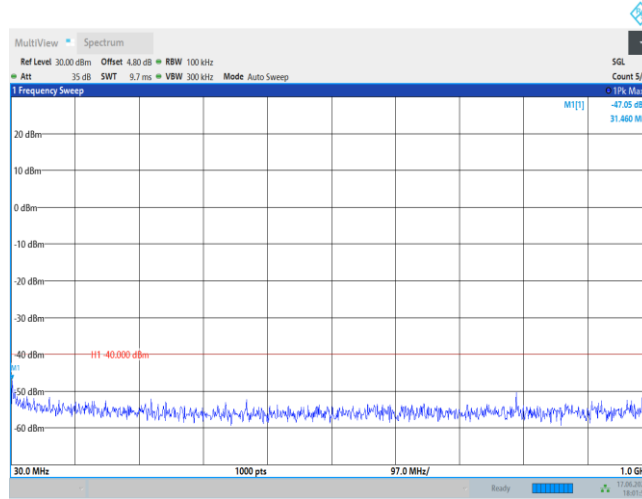


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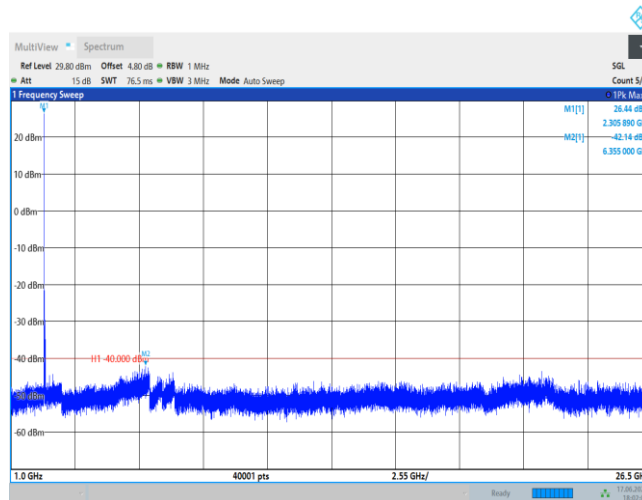
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



18:01:57 17.06.2022

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



18:02:02 17.06.2022



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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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.1800	50.59	-109.18	-58.59	-40.00	18.59	163	190	Horizontal
2	6916.5	61.19	-103.29	-42.10	-40.00	2.10	251	301	Horizontal
3	9222.3600	46.46	-97.15	-50.69	-40.00	10.69	148	76	Horizontal
4	11527.9500	43.35	-93.49	-50.14	-40.00	10.14	175	42	Horizontal
5	13833.5400	43.69	-91.35	-47.66	-40.00	7.66	130	201	Horizontal
6	16139.1300	44.82	-92.15	-47.33	-40.00	7.33	133	11	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.1800	51.56	-109.18	-57.62	-40.00	17.62	169	200	Vertical
2	6916.5	59.56	-103.29	-43.73	-40.00	3.73	145	0	Vertical
3	9222.3600	46.21	-97.15	-50.94	-40.00	10.94	172	234	Vertical
4	11527.9500	43.79	-93.49	-49.70	-40.00	9.70	230	346	Vertical
5	13833.5400	43.98	-91.35	-47.37	-40.00	7.37	133	336	Vertical
6	16139.1300	45.24	-92.15	-46.91	-40.00	6.91	160	290	Vertical



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Test Band = LTE Band 30_5M_TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.6800	51.08	-109.18	-58.10	-40.00	18.10	298	335	Horizontal
2	6915.75	57.26	-103.29	-46.03	-40.00	6.03	174	325	Horizontal
3	9221.3600	47.20	-97.15	-49.95	-40.00	9.95	163	336	Horizontal
4	11526.7000	42.93	-93.49	-50.56	-40.00	10.56	163	31	Horizontal
5	13832.0400	44.02	-91.36	-47.34	-40.00	7.34	233	278	Horizontal
6	16137.3800	44.27	-92.14	-47.87	-40.00	7.87	215	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.6800	52.46	-109.18	-56.72	-40.00	16.72	174	32	Vertical
2	6915.75	53.02	-103.29	-50.27	-40.00	10.27	196	5	Vertical
3	9221.3600	45.94	-97.15	-51.21	-40.00	11.21	154	48	Vertical
4	11526.7000	42.67	-93.49	-50.82	-40.00	10.82	233	33	Vertical
5	13832.0400	42.60	-91.36	-48.76	-40.00	8.76	236	302	Vertical
6	16137.3800	44.08	-92.14	-48.06	-40.00	8.06	197	96	Vertical



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Test Band = LTE Band 30_5M_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.6800	51.05	-109.16	-58.11	-40.00	18.11	246	301	Horizontal
2	6923.25	56.05	-103.24	-47.19	-40.00	7.19	194	5	Horizontal
3	9231.3600	44.73	-97.14	-52.41	-40.00	12.41	172	18	Horizontal
4	11539.2000	43.09	-93.45	-50.36	-40.00	10.36	230	290	Horizontal
5	13847.0400	42.05	-91.21	-49.16	-40.00	9.16	133	75	Horizontal
6	16154.8800	43.37	-92.18	-48.81	-40.00	8.81	160	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.6800	50.58	-109.16	-58.58	-40.00	18.58	175	132	Vertical
2	6923.5200	54.14	-103.24	-49.10	-40.00	9.10	194	76	Vertical
3	9231.3600	45.63	-97.14	-51.51	-40.00	11.51	188	346	Vertical
4	11539.2000	42.19	-93.45	-51.26	-40.00	11.26	215	356	Vertical
5	13847.0400	42.68	-91.21	-48.53	-40.00	8.53	146	346	Vertical
6	16154.8800	44.37	-92.18	-47.81	-40.00	7.81	201	86	Vertical



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Test Band = LTE Band 30_5M_TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.6800	50.37	-109.14	-58.77	-40.00	18.77	154	356	Horizontal
2	6931.0200	51.51	-103.19	-51.68	-40.00	11.68	175	46	Horizontal
3	9241.3600	45.86	-97.13	-51.27	-40.00	11.27	196	134	Horizontal
4	11551.7000	42.75	-93.41	-50.66	-40.00	10.66	230	4	Horizontal
5	13862.0400	41.58	-91.05	-49.47	-40.00	9.47	133	233	Horizontal
6	16172.3800	43.36	-92.22	-48.86	-40.00	8.86	169	11	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.6800	52.18	-109.14	-56.96	-40.00	16.96	154	63	Vertical
2	6931.0200	52.21	-103.19	-50.98	-40.00	10.98	194	356	Vertical
3	9241.3600	45.42	-97.13	-51.71	-40.00	11.71	172	312	Vertical
4	11551.7000	42.10	-93.41	-51.31	-40.00	11.31	201	165	Vertical
5	13862.0400	42.05	-91.05	-49.00	-40.00	9.00	233	267	Vertical
6	16172.3800	43.80	-92.22	-48.42	-40.00	8.42	190	1	Vertical



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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	5.60	0.002424	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-1.50	-0.000649	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-19.10	-0.008268	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-24.10	-0.010433	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	3.00	0.001299	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-22.00	-0.009524	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-8.80	-0.003810	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	8.50	0.003680	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-22.00	-0.009524	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-8.80	-0.003810	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	8.50	0.003680	PASS

The End



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