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Appendix B.7

LTE Band 14



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	24.44	20.79	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.6	20.95	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.46	20.81	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.68	20.03	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.5	20.85	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.47	20.82	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.44	20.79	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.68	20.03	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.17	20.52	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.46	20.81	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.46	20.81	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.7	20.05	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.76	20.11	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.72	20.07	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.8	20.15	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.72	19.07	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.7	20.05	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.76	20.11	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.79	20.14	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.75	19.1	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.64	19.99	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.79	20.14	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.78	20.13	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.77	19.12	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.72	19.07	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.71	19.06	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	22.78	19.13	34.77	PASS

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Band14	5MHz	64QAM	23305	25RB#0	21.69	18.04	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.75	19.1	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.71	19.06	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.75	19.1	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.68	18.03	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.73	19.08	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.62	18.97	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.78	19.13	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.68	18.03	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	19.73	16.08	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	19.8	16.15	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.77	16.12	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	19.67	16.02	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.77	16.12	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.76	16.11	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	19.78	16.13	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	19.65	16	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	19.8	16.15	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	19.77	16.12	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	19.73	16.08	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	19.66	16.01	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.45	20.8	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.4	20.75	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.43	20.78	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.72	20.07	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.69	20.04	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.75	20.1	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.76	20.11	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.74	19.09	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.74	19.09	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.77	19.12	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.76	19.11	34.77	PASS

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Band14	10MHz	64QAM	23330	50RB#0	21.73	18.08	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	19.79	16.14	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.72	16.07	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	19.72	16.07	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	19.68	16.03	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	4.94	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.64	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.16	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.44	13	PASS

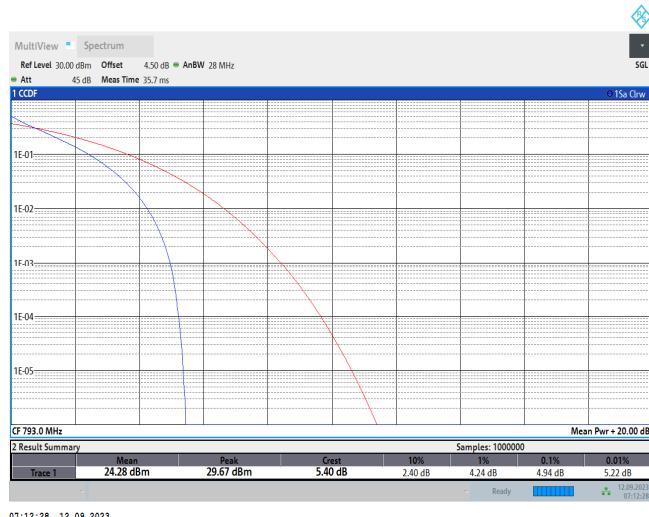
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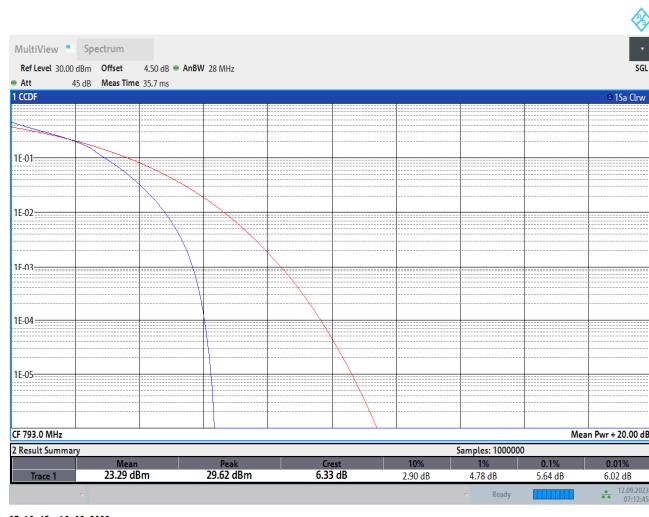
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Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0



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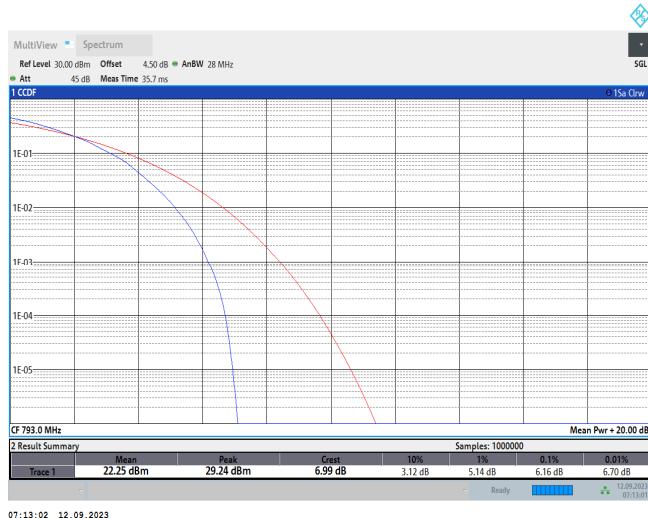


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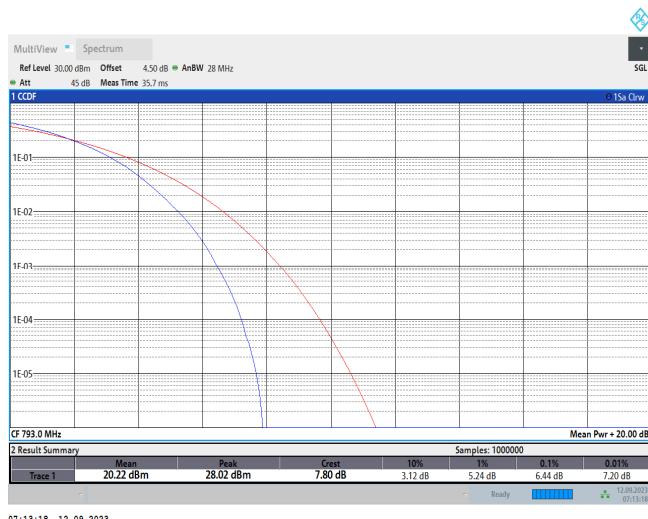
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Band14-10MHz-64QAM-23330-50RB#0



Band14-10MHz-256QAM-23330-50RB#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
Band14	5MHz	QPSK	23330	25RB#0	4.463	4.87	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.465	4.87	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.472	4.85	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.468	4.84	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.932	9.63	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.939	9.70	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.95	9.70	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.922	9.67	PASS

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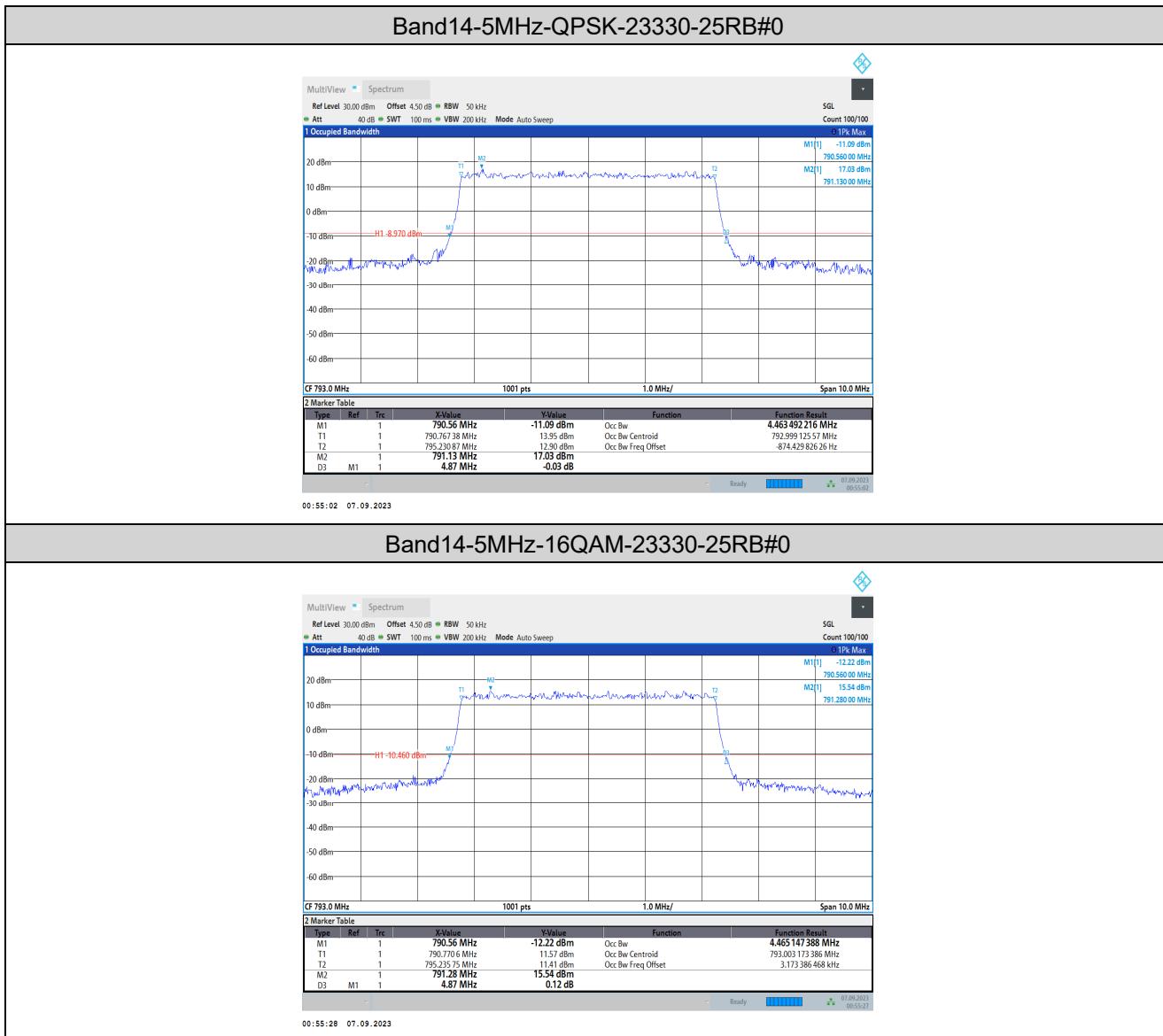
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Test Graphs



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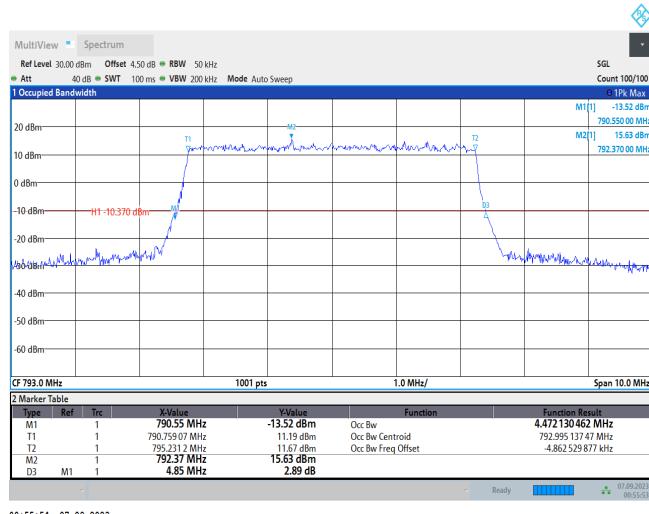
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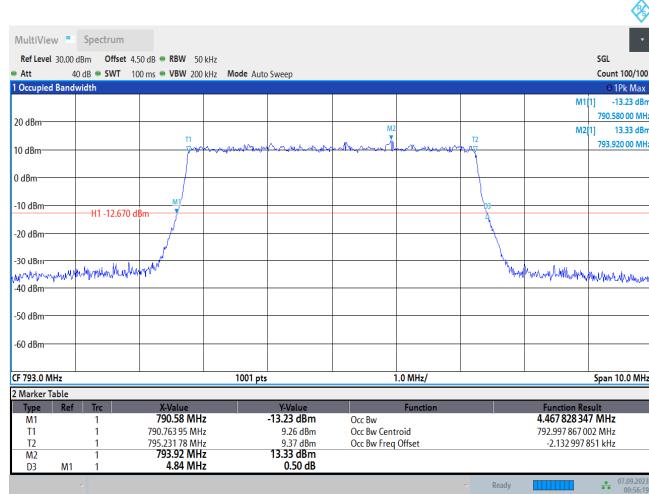
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Band14-5MHz-64QAM-23330-25RB#0



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Band14-5MHz-256QAM-23330-25RB#0



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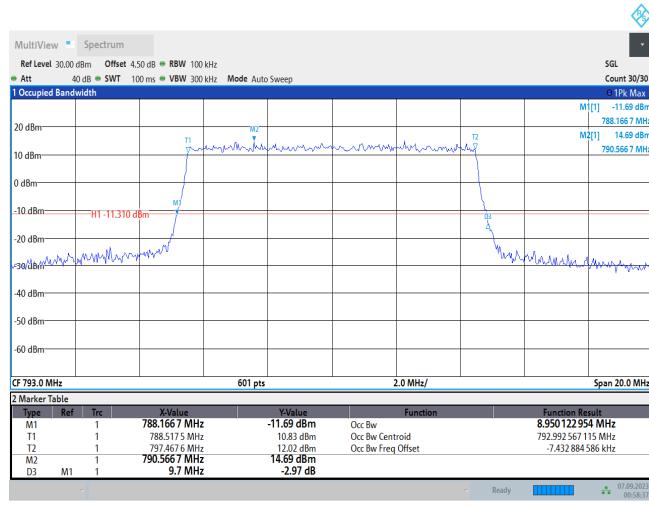


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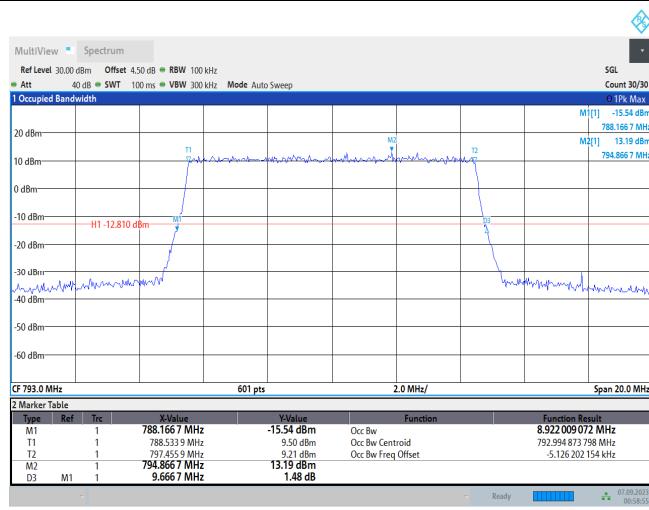
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 Rev.: 01
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Band14-10MHz-64QAM-23330-50RB#0



Band14-10MHz-256QAM-23330-50RB#0



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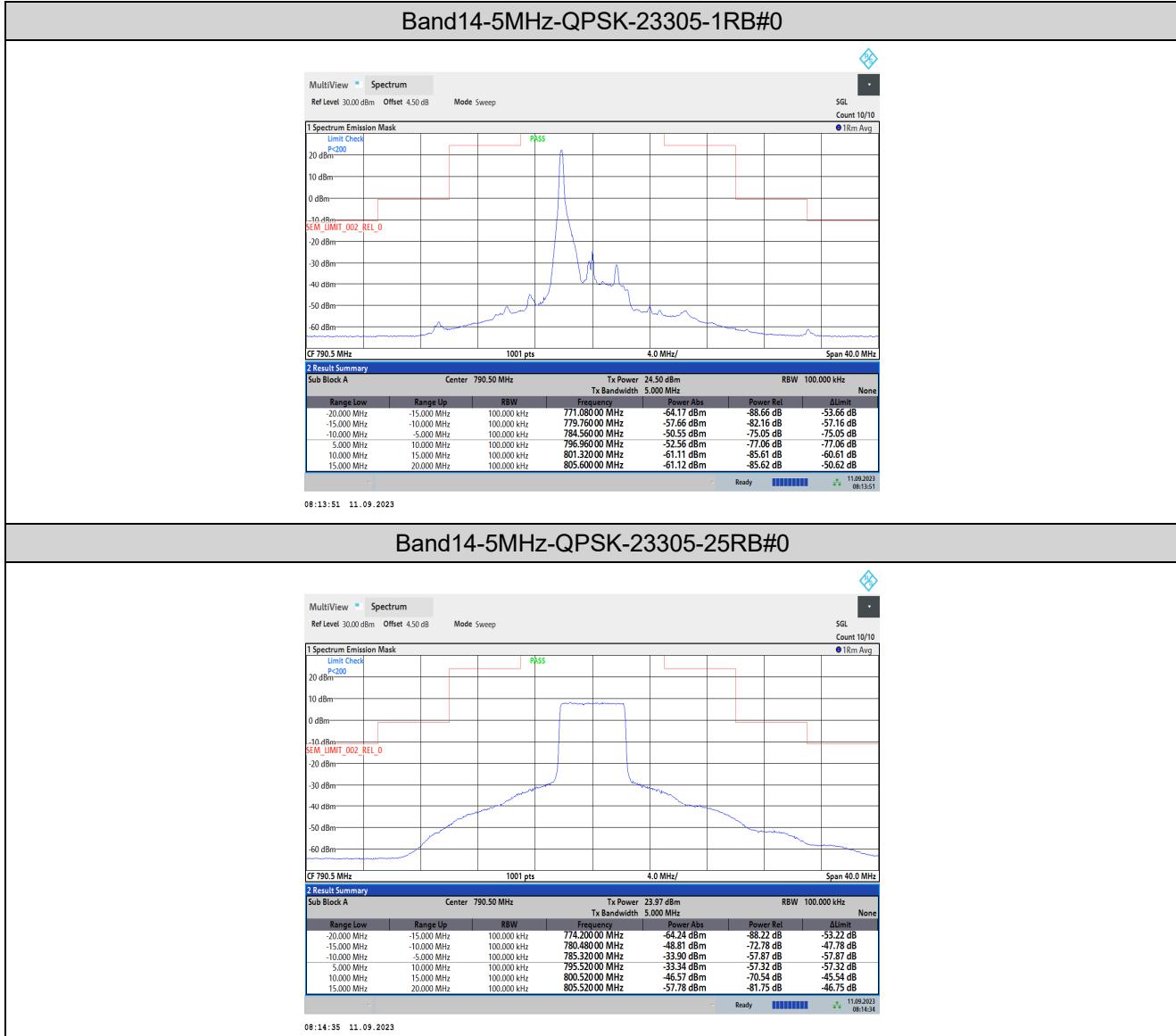


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Emission Mask

Test Graphs



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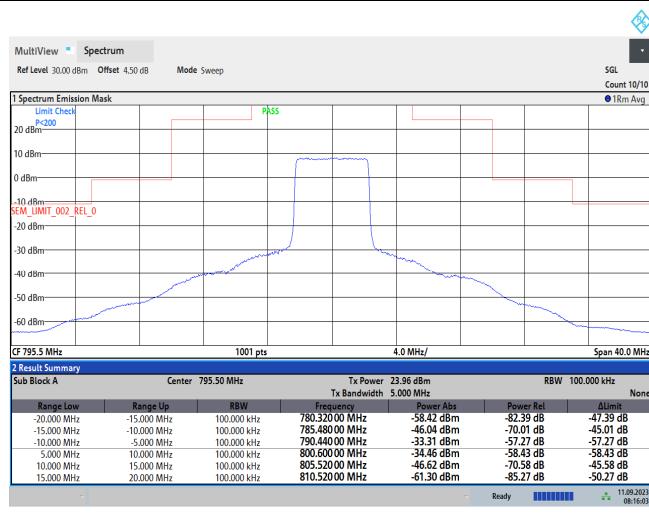
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Band14-5MHz-QPSK-23355-1RB#24



Band14-5MHz-QPSK-23355-25RB#0



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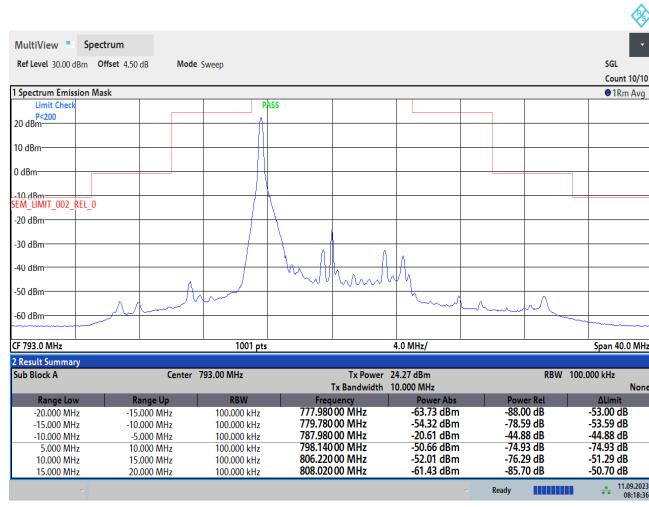


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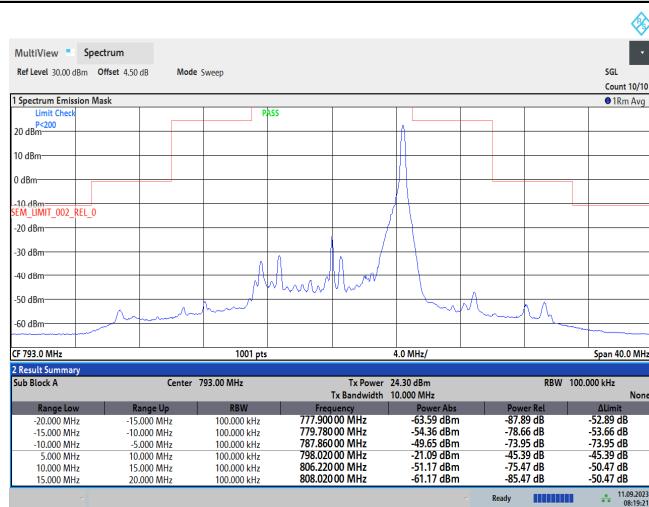
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Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49



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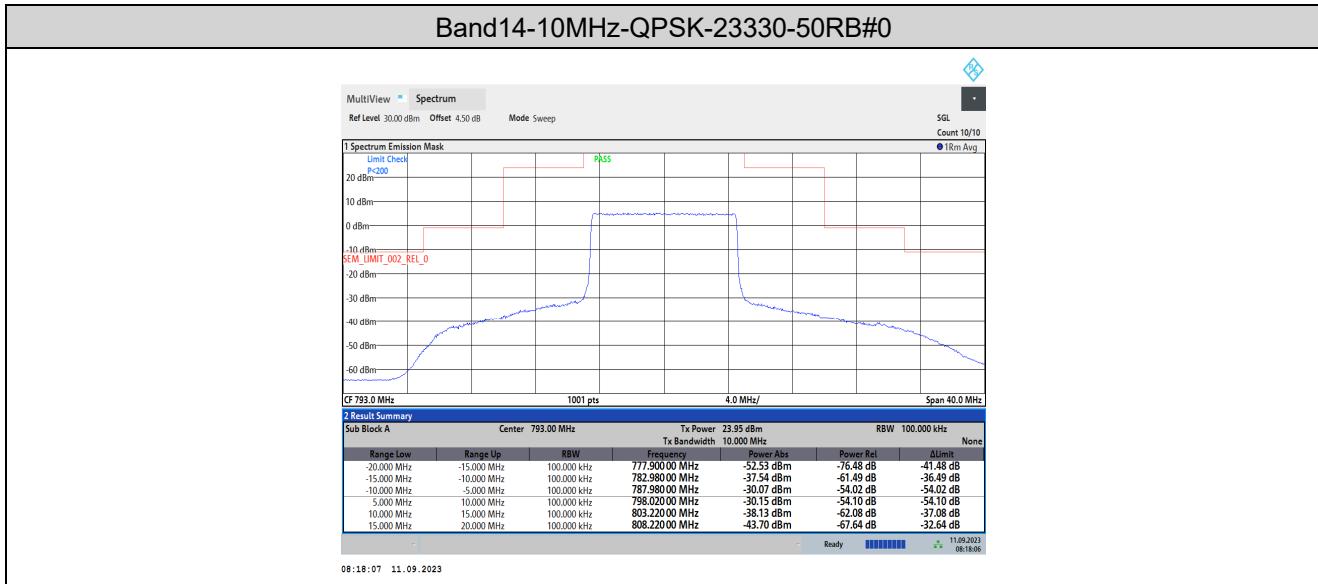
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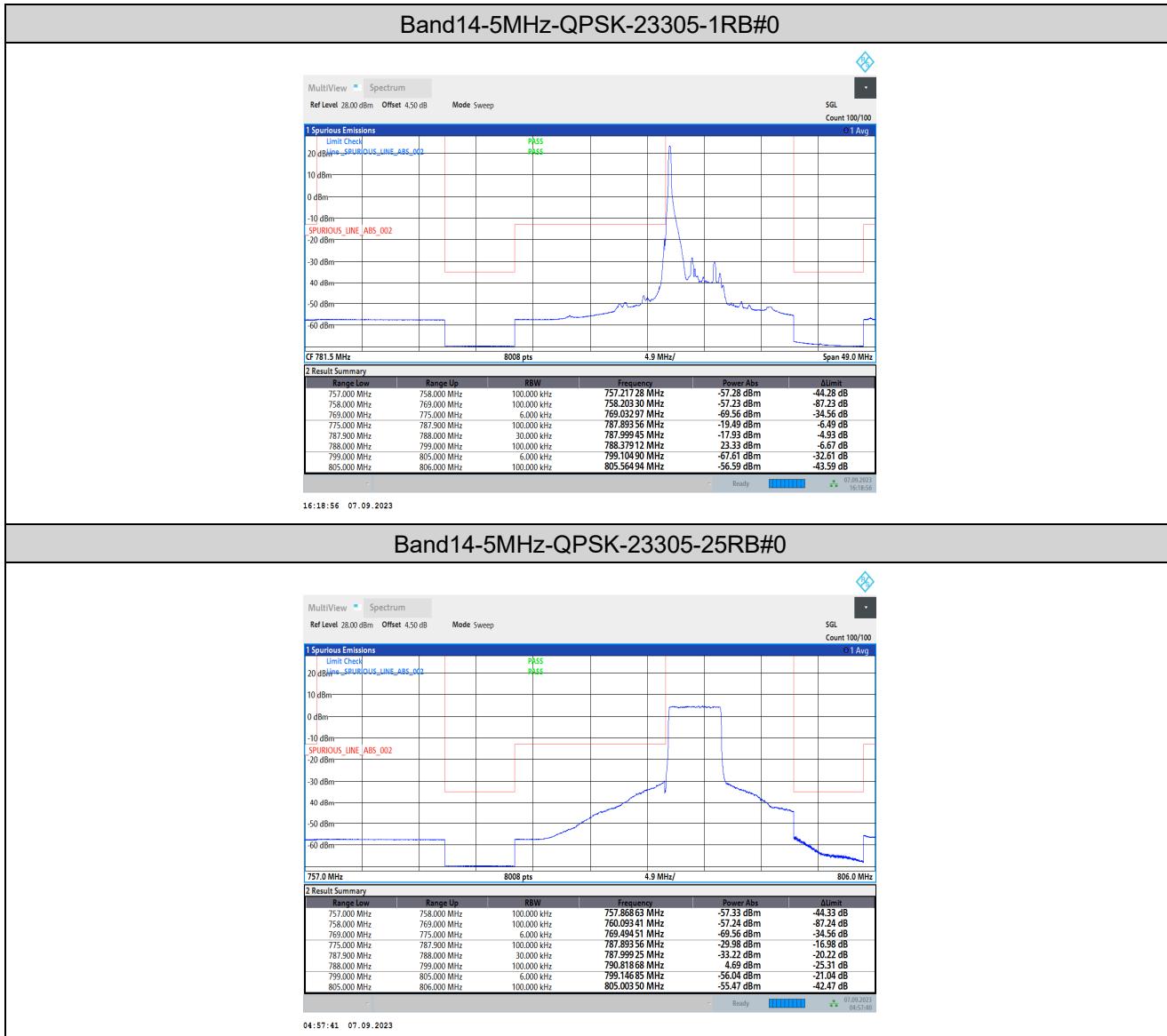
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Band Edge

Test Graphs



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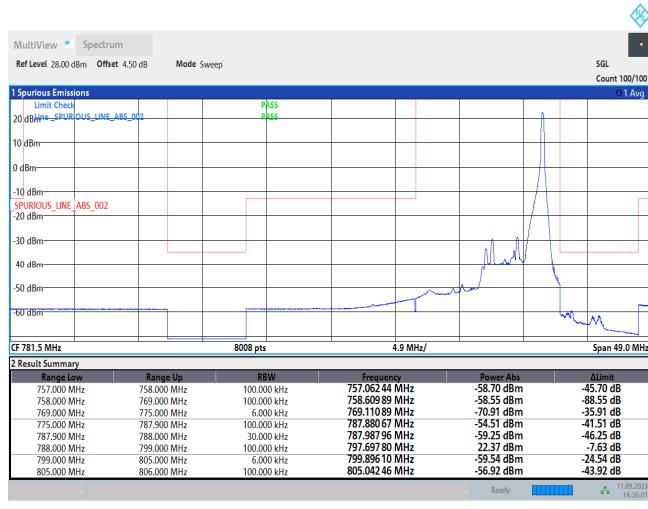


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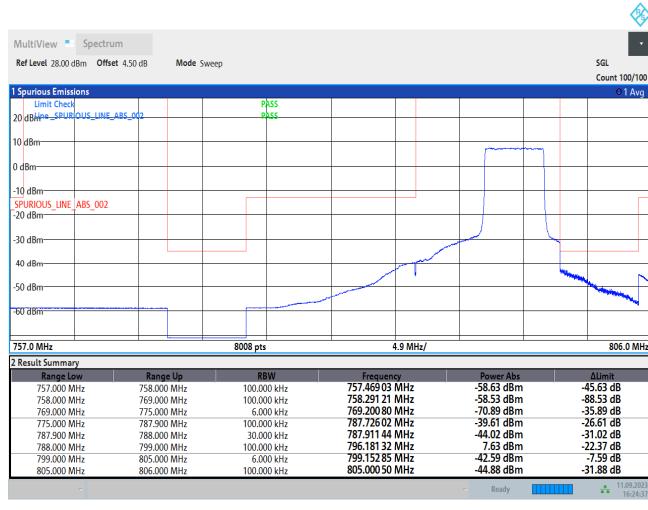
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Band14-5MHz-QPSK-23355-1RB#24



14:26:01 11.09.2023

Band14-5MHz-QPSK-23355-25RB#0



16:24:38 11.09.2023

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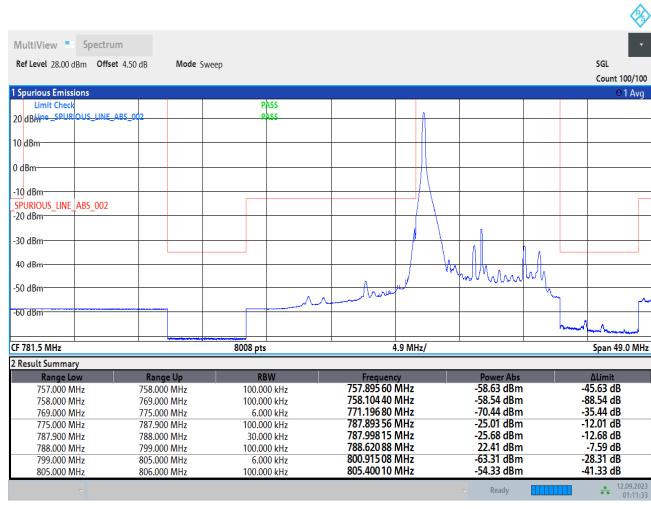


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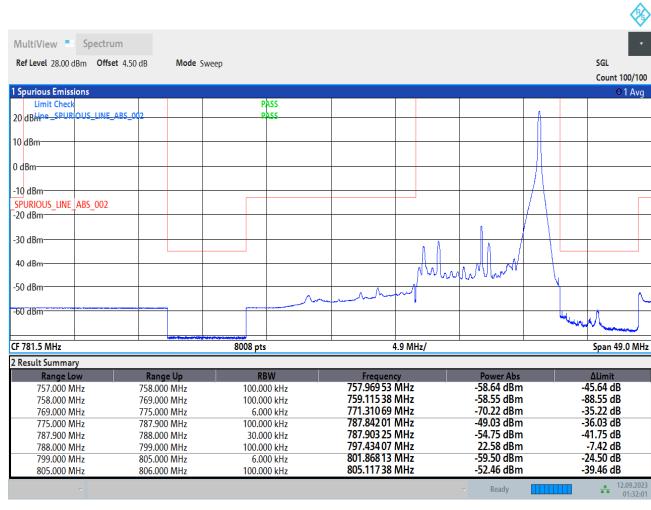
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Band14-10MHz-QPSK-23330-1RB#0



01:11:33 12.09.2023

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01:32:01 12.09.2023

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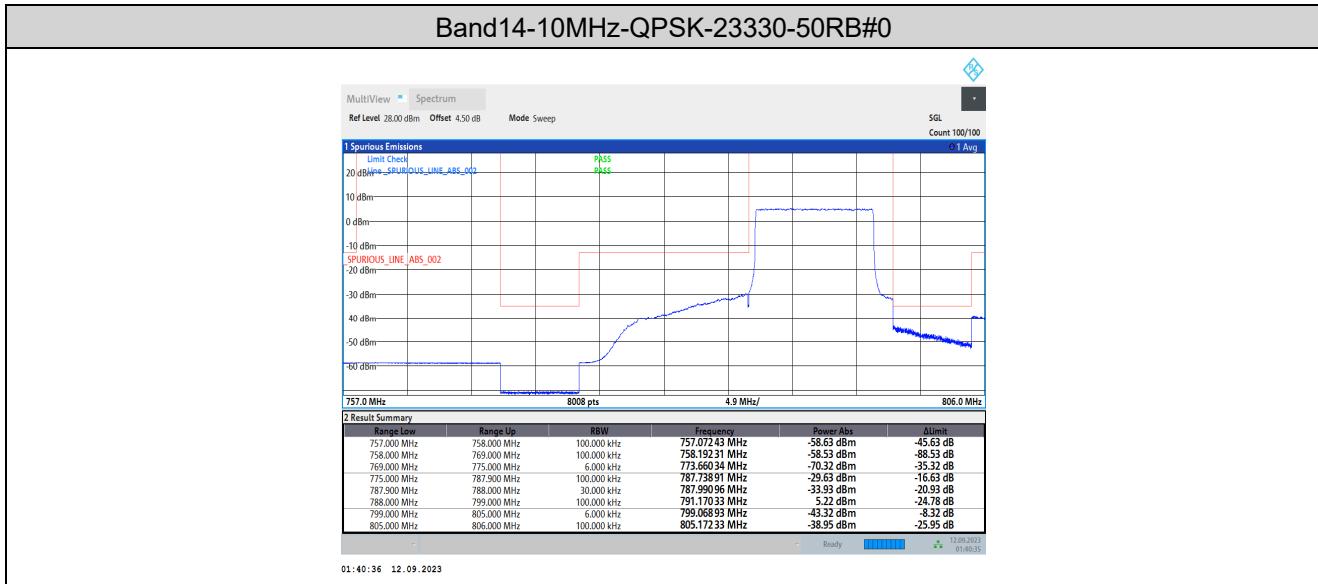
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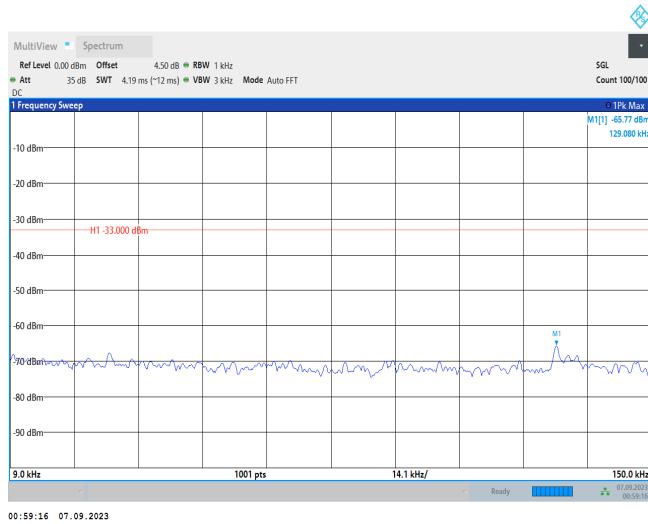
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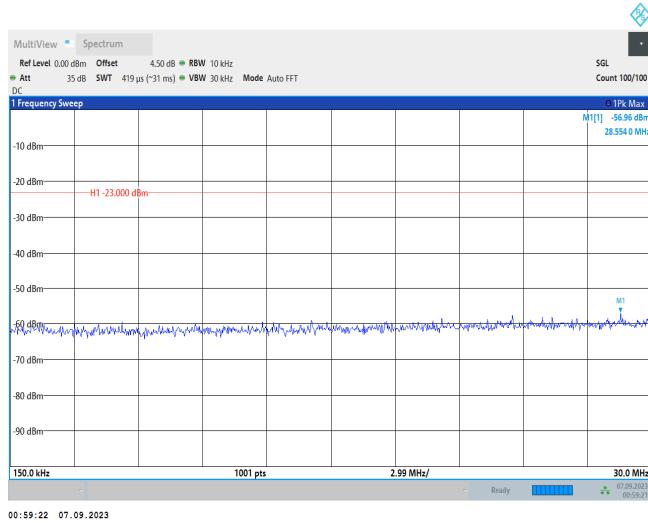
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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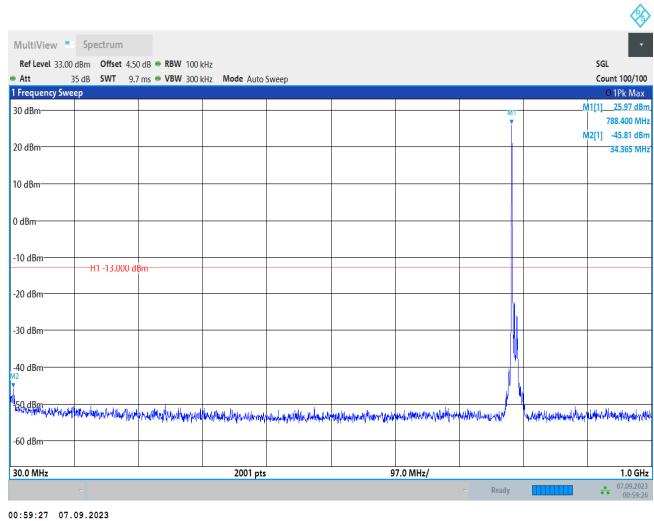
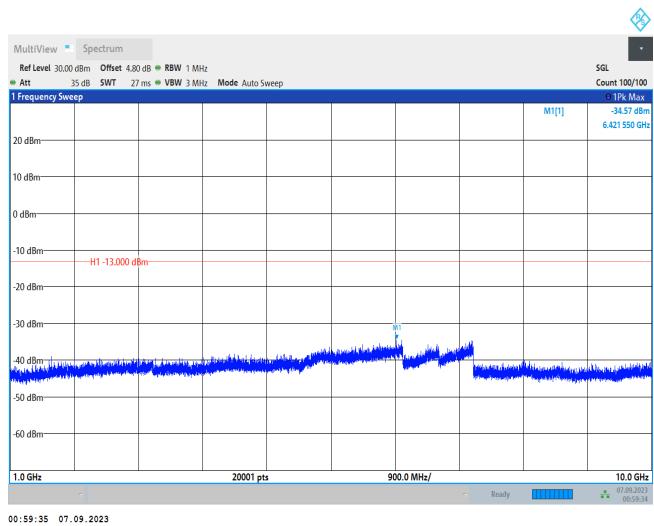
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz**Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz**

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Field Strength of Spurious Radiation

Test Band = LTE Band 14 10M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.18	48.36	-49.91	25.01	-71.80	-40.00	31.80	Vertical
2	2365.77	45.00	-49.36	27.14	-72.48	-13.00	59.48	Vertical
3	3154.36	44.52	-48.76	28.56	-70.93	-13.00	57.93	Vertical
4	3942.95	44.21	-48.40	29.32	-70.13	-13.00	57.13	Vertical
5	4731.54	42.13	-48.06	30.86	-70.34	-13.00	57.34	Vertical
6	5520.13	43.25	-47.45	32.70	-66.75	-13.00	53.75	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.18	47.28	-49.91	25.01	-72.88	-40.00	32.88	Horizontal
2	2365.77	44.55	-49.36	27.14	-72.93	-13.00	59.93	Horizontal
3	3154.36	44.21	-48.76	28.56	-71.24	-13.00	58.24	Horizontal
4	3942.95	44.40	-48.40	29.32	-69.94	-13.00	56.94	Horizontal
5	4731.54	42.21	-48.06	30.86	-70.26	-13.00	57.26	Horizontal
6	5520.13	42.79	-47.45	32.70	-67.21	-13.00	54.21	Horizontal

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Test Band = LTE Band 14 5M_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.68	47.43	-49.91	25.01	-72.73	-40.00	32.73	Vertical
2	2365.02	44.42	-49.36	27.14	-73.06	-13.00	60.06	Vertical
3	3153.36	44.33	-48.76	28.56	-71.13	-13.00	58.13	Vertical
4	3941.7	43.86	-48.40	29.32	-70.48	-13.00	57.48	Vertical
5	4730.04	42.59	-48.06	30.85	-69.88	-13.00	56.88	Vertical
6	5518.38	43.22	-47.44	32.70	-66.78	-13.00	53.78	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.68	48.03	-49.91	25.01	-72.13	-40.00	32.13	Horizontal
2	2365.02	44.95	-49.36	27.14	-72.53	-13.00	59.53	Horizontal
3	3153.36	43.59	-48.76	28.56	-71.87	-13.00	58.87	Horizontal
4	3941.7	43.45	-48.40	29.32	-70.89	-13.00	57.89	Horizontal
5	4730.04	43.29	-48.06	30.85	-69.18	-13.00	56.18	Horizontal
6	5518.38	43.28	-47.44	32.70	-66.72	-13.00	53.72	Horizontal

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Test Band = LTE Band 14 5M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.68	44.81	-49.91	25.03	-75.33	-40.00	35.33	Vertical
2	2372.52	44.26	-49.39	27.15	-73.24	-13.00	60.24	Vertical
3	3163.36	43.52	-48.73	28.57	-71.90	-13.00	58.90	Vertical
4	3954.2	44.32	-48.39	29.34	-69.99	-13.00	56.99	Vertical
5	4745.04	42.69	-48.05	30.89	-69.73	-13.00	56.73	Vertical
6	5535.88	43.20	-47.49	32.71	-66.84	-13.00	53.84	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.68	45.00	-49.91	25.03	-75.14	-40.00	35.14	Horizontal
2	2372.52	44.11	-49.39	27.15	-73.39	-13.00	60.39	Horizontal
3	3163.36	43.98	-48.73	28.57	-71.44	-13.00	58.44	Horizontal
4	3954.2	43.75	-48.39	29.34	-70.56	-13.00	57.56	Horizontal
5	4745.04	43.20	-48.05	30.89	-69.22	-13.00	56.22	Horizontal
6	5535.88	43.41	-47.49	32.71	-66.63	-13.00	53.63	Horizontal



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Test Band = LTE Band 14 5M_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.68	45.42	-49.92	25.05	-74.71	-40.00	34.71	Vertical
2	2380.02	44.63	-49.41	27.16	-72.89	-13.00	59.89	Vertical
3	3173.36	45.35	-48.70	28.57	-70.04	-13.00	57.04	Vertical
4	3966.7	43.83	-48.38	29.35	-70.45	-13.00	57.45	Vertical
5	4760.04	43.28	-48.04	30.93	-69.10	-13.00	56.10	Vertical
6	5553.38	43.35	-47.54	32.71	-66.74	-13.00	53.74	Vertical

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.68	45.39	-49.92	25.05	-74.74	-40.00	34.74	Horizontal
2	2380.02	44.86	-49.41	27.16	-72.66	-13.00	59.66	Horizontal
3	3173.36	45.69	-48.70	28.57	-69.70	-13.00	56.70	Horizontal
4	3966.7	43.87	-48.38	29.35	-70.41	-13.00	57.41	Horizontal
5	4760.04	42.36	-48.04	30.93	-70.02	-13.00	57.02	Horizontal
6	5553.38	43.48	-47.54	32.71	-66.61	-13.00	53.61	Horizontal

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Test Band = LTE UL CA 14A-66A_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.18	43.98	-48.40	28.66	-71.02	-13.00	58.02	Horizontal
2	5106.27	43.59	-47.82	31.76	-67.74	-13.00	54.74	Horizontal
3	6808.36	43.52	-46.88	35.18	-63.44	-13.00	50.44	Horizontal
4	8510.45	40.67	-44.25	36.92	-61.92	-13.00	48.92	Horizontal
5	10212.54	38.32	-42.01	38.69	-60.26	-13.00	47.26	Horizontal
6	11914.63	36.88	-39.90	39.22	-59.07	-13.00	46.07	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3404.18	43.92	-48.40	28.66	-71.08	-13.00	58.08	Vertical
2	5106.27	43.96	-47.82	31.76	-67.37	-13.00	54.37	Vertical
3	6808.36	43.82	-46.88	35.18	-63.14	-13.00	50.14	Vertical
4	8510.45	41.08	-44.25	36.92	-61.51	-13.00	48.51	Vertical
5	10212.54	37.71	-42.01	38.69	-60.87	-13.00	47.87	Vertical
6	11914.63	37.12	-39.90	39.22	-58.83	-13.00	45.83	Vertical

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Test Band = LTE UL CA 14A-66A_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.18	44.45	-48.34	28.68	-70.47	-13.00	57.47	Horizontal
2	5181.27	43.76	-47.88	31.94	-67.44	-13.00	54.44	Horizontal
3	6908.36	43.64	-46.72	35.40	-62.94	-13.00	49.94	Horizontal
4	8635.45	40.95	-44.02	37.09	-61.24	-13.00	48.24	Horizontal
5	10362.54	38.49	-41.21	38.83	-59.15	-13.00	46.15	Horizontal
6	12089.63	37.08	-39.61	39.15	-58.64	-13.00	45.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3454.18	44.22	-48.34	28.68	-70.70	-13.00	57.70	Vertical
2	5181.27	43.60	-47.88	31.94	-67.60	-13.00	54.60	Vertical
3	6908.36	43.38	-46.72	35.40	-63.20	-13.00	50.20	Vertical
4	8635.45	40.72	-44.02	37.09	-61.47	-13.00	48.47	Vertical
5	10362.54	38.67	-41.21	38.83	-58.97	-13.00	45.97	Vertical
6	12089.63	37.67	-39.61	39.15	-58.05	-13.00	45.05	Vertical

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Test Band = LTE UL CA 14A-66A_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.18	44.48	-48.29	28.71	-70.36	-13.00	57.36	Horizontal
2	5256.27	43.71	-47.83	32.12	-67.26	-13.00	54.26	Horizontal
3	7008.36	42.81	-46.53	35.62	-63.36	-13.00	50.36	Horizontal
4	8760.45	40.89	-44.04	37.27	-61.15	-13.00	48.15	Horizontal
5	10512.54	38.49	-40.73	38.96	-58.54	-13.00	45.54	Horizontal
6	12262.63	36.95	-39.76	39.04	-59.03	-13.00	46.03	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504.18	44.59	-48.29	28.71	-70.25	-13.00	57.25	Vertical
2	5256.27	43.46	-47.83	32.12	-67.51	-13.00	54.51	Vertical
3	7008.36	43.00	-46.53	35.62	-63.17	-13.00	50.17	Vertical
4	8760.45	40.92	-44.04	37.27	-61.12	-13.00	48.12	Vertical
5	10512.54	38.61	-40.73	38.96	-58.42	-13.00	45.42	Vertical
6	12262.63	37.05	-39.76	39.04	-58.93	-13.00	45.93	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
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	3.60	0.004540	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.00	0.000000	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	1.10	0.001387	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	1.50	0.001892	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-2.50	-0.003153	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	2.00	0.002522	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	1.40	0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-0.90	-0.001135	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	1.80	0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	1.20	0.001513	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	1.40	0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-0.30	-0.000378	PASS

---End of Attachment---



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