



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.8

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	23.58	22.93	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.56	22.91	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.40	22.75	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.35	21.70	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.44	22.79	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.38	22.73	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.41	22.76	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.32	21.67	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.13	22.48	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.40	22.75	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.36	22.71	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.41	21.76	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.69	22.04	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.64	21.99	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.61	21.96	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.35	20.70	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.52	21.87	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.74	22.09	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.61	21.96	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.40	20.75	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.63	21.98	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.09	22.44	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.92	22.27	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.44	20.79	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.60	20.95	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.73	21.08	34.77	PASS



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Band14	5MHz	64QAM	23305	1RB#24	21.55	20.90	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	20.27	19.62	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.63	20.98	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.49	20.84	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.48	20.83	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.39	19.74	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.51	20.86	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.72	21.07	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.46	20.81	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.39	19.74	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.23	17.58	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.79	18.14	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	18.38	17.73	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	18.26	17.61	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	18.40	17.75	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.41	17.76	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.25	17.60	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.13	17.48	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.38	17.73	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.45	17.80	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.19	17.54	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.18	17.53	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.78	23.13	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.36	22.71	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.55	22.90	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.35	21.70	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.51	21.86	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.64	21.99	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.69	22.04	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.47	20.82	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.27	20.62	34.77	PASS



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Band14	10MHz	64QAM	23330	1RB#24	21.73	21.08	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.44	20.79	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.45	19.80	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	18.11	17.46	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	18.47	17.82	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.29	17.64	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	18.20	17.55	34.77	PASS



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房

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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	5.16	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.29	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.96	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	7.07	13	PASS



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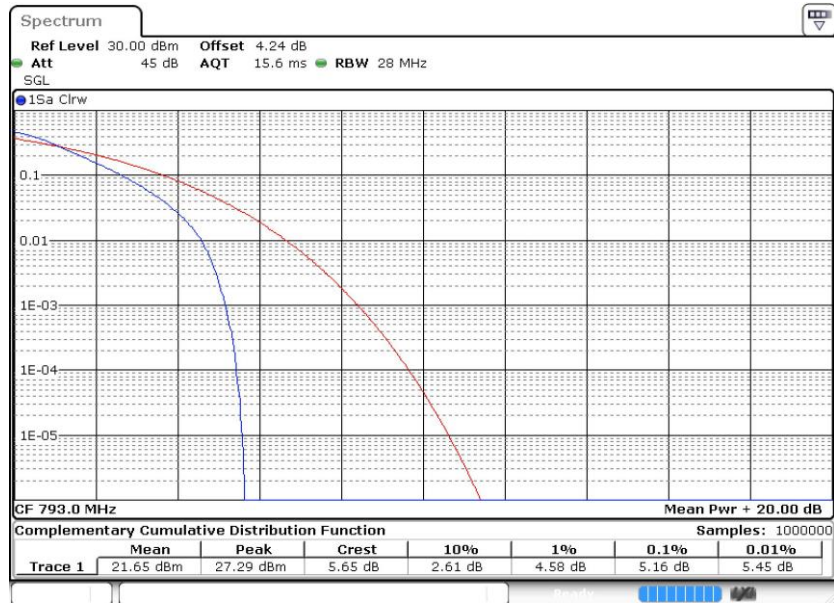


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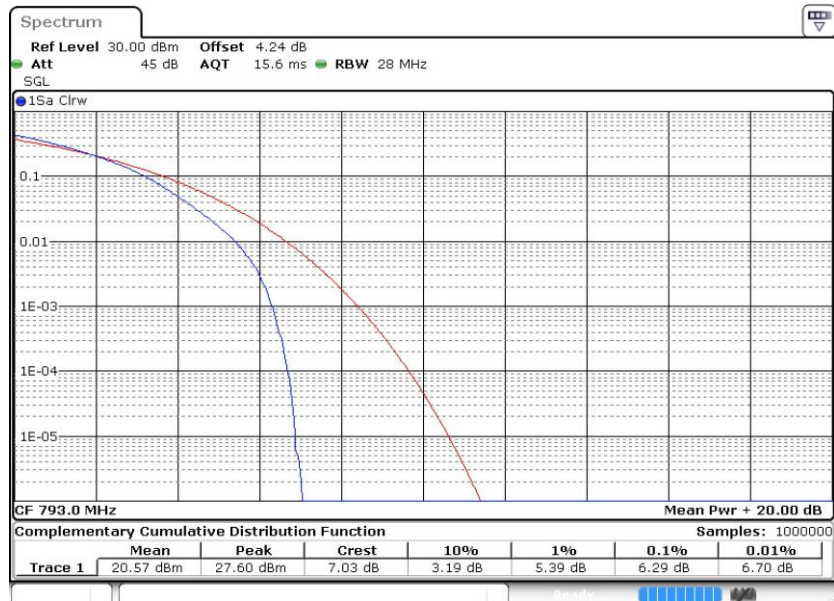
Test Graphs

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



Date: 19.DEC.2023 09:52:49

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



Date: 19.DEC.2023 09:53:06



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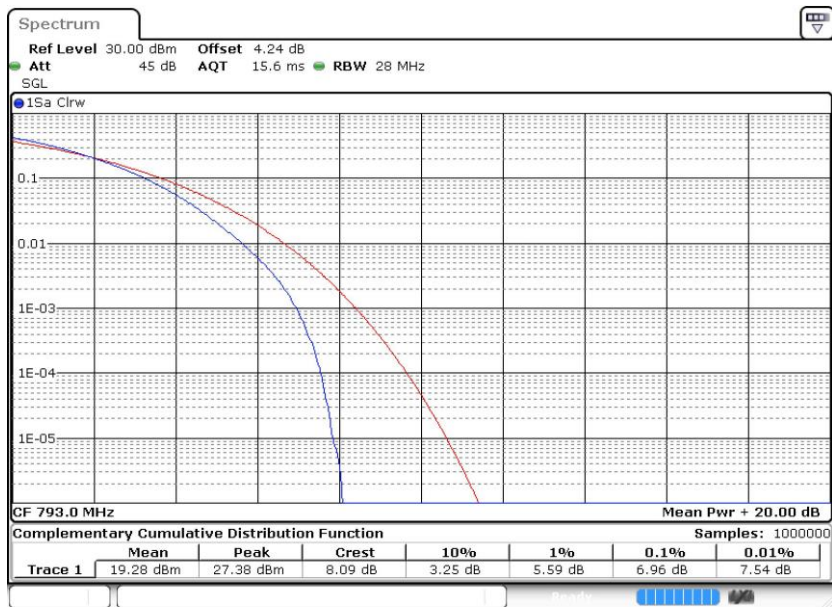
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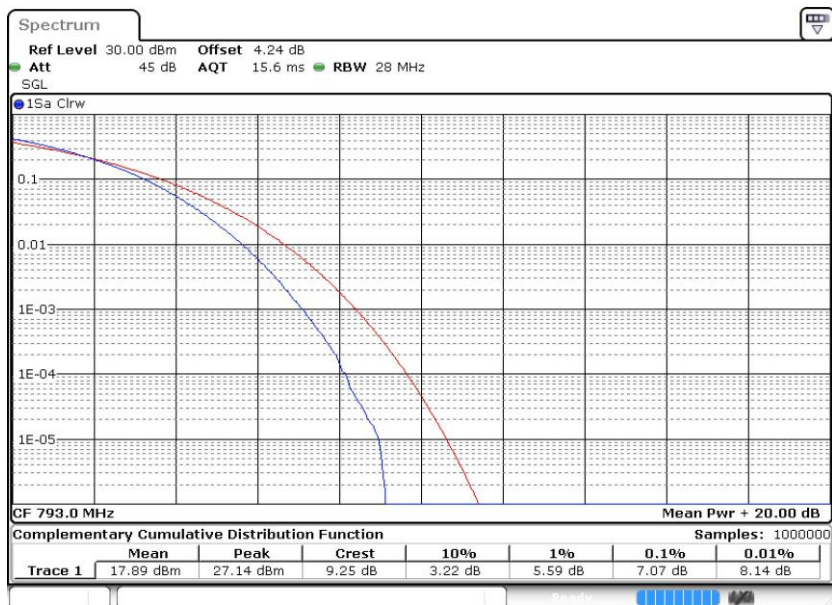
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Band14-10MHz-64QAM-23330-50RB#0



Date: 19.DEC.2023 15:27:25

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



Date: 28.DEC.2023 17:14:32



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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	23305	25RB#0	4.476	5.03	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.466	4.98	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.466	4.99	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.486	5.02	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.466	5.01	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.466	4.97	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.486	5.09	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.466	4.99	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.476	5.02	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.486	5.08	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.466	4.95	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.466	4.94	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.918	9.80	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.918	9.83	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.918	9.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.918	9.80	PASS



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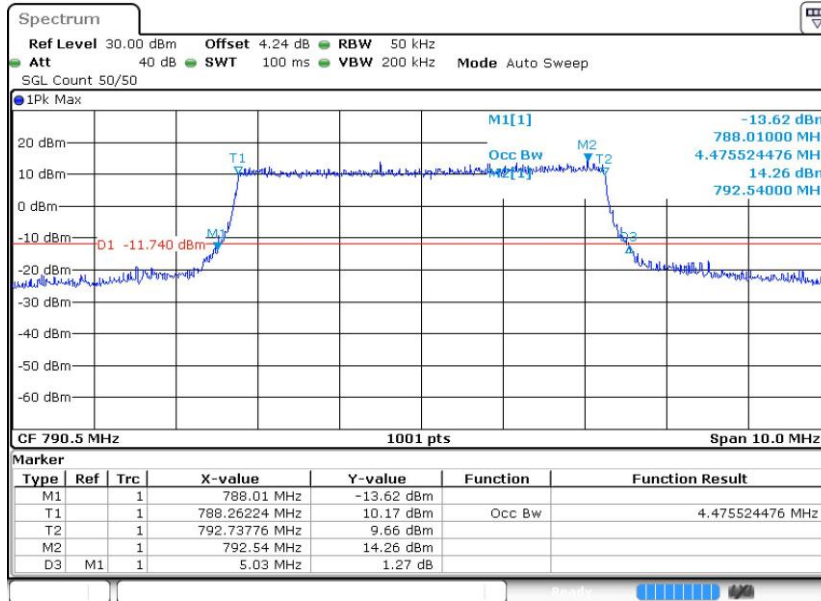


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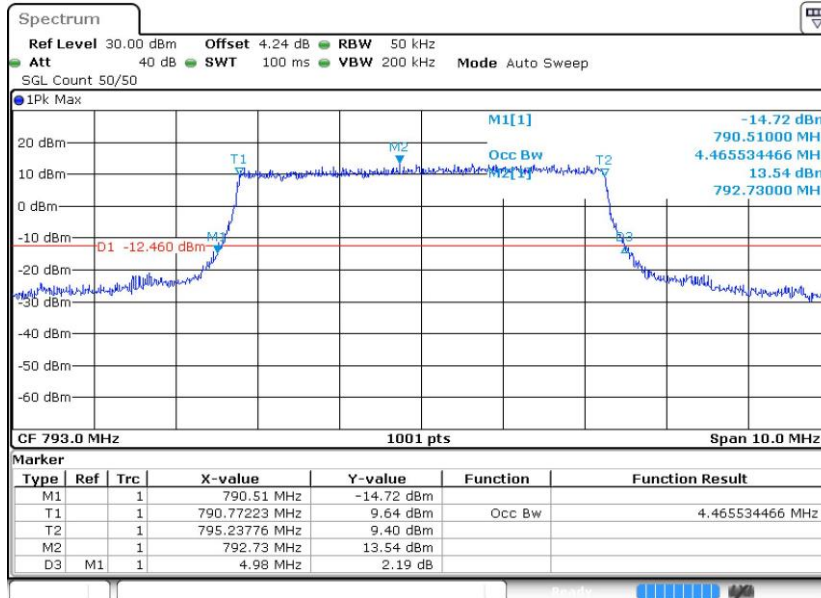
Test Graphs

Band14-5MHz-QPSK-23305-25RB#0



Date: 19.DEC.2023 09:50:02

Band14-5MHz-QPSK-23330-25RB#0



Date: 19.DEC.2023 09:50:39



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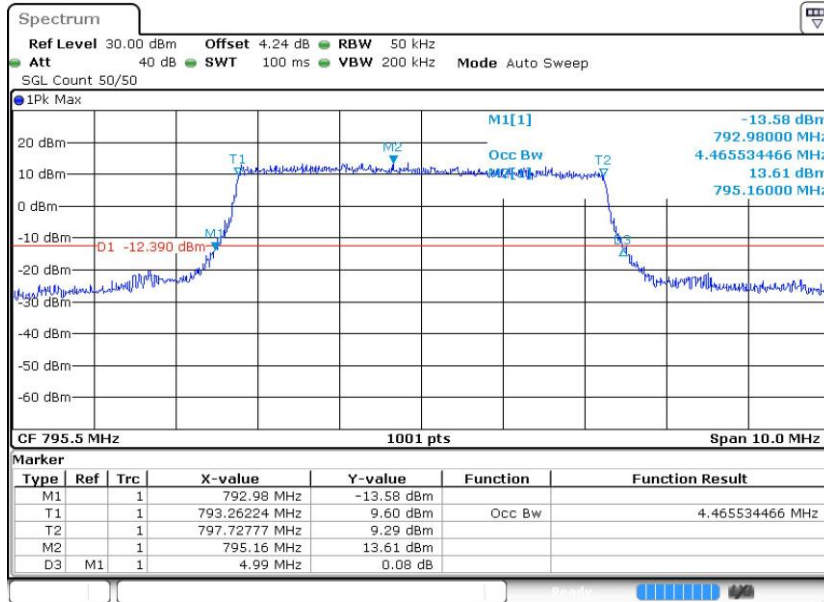
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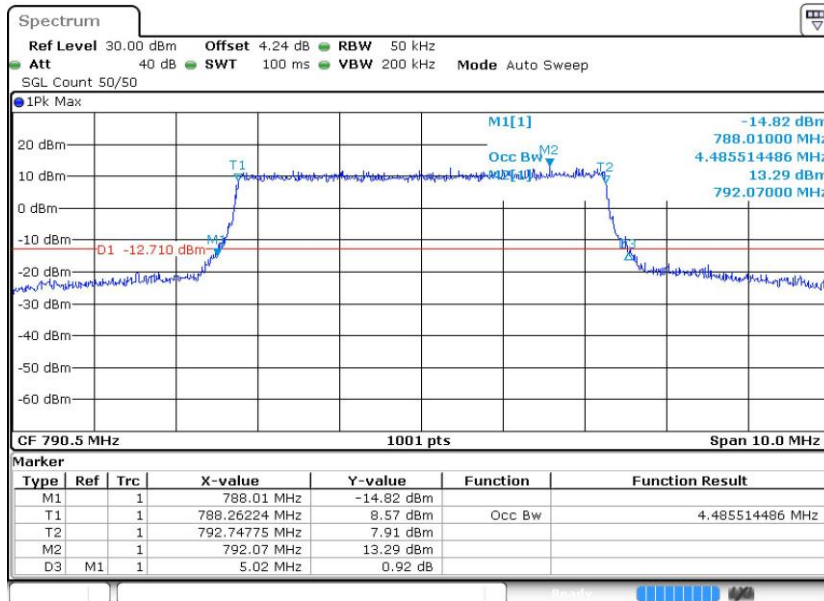
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Band14-5MHz-QPSK-23355-25RB#0



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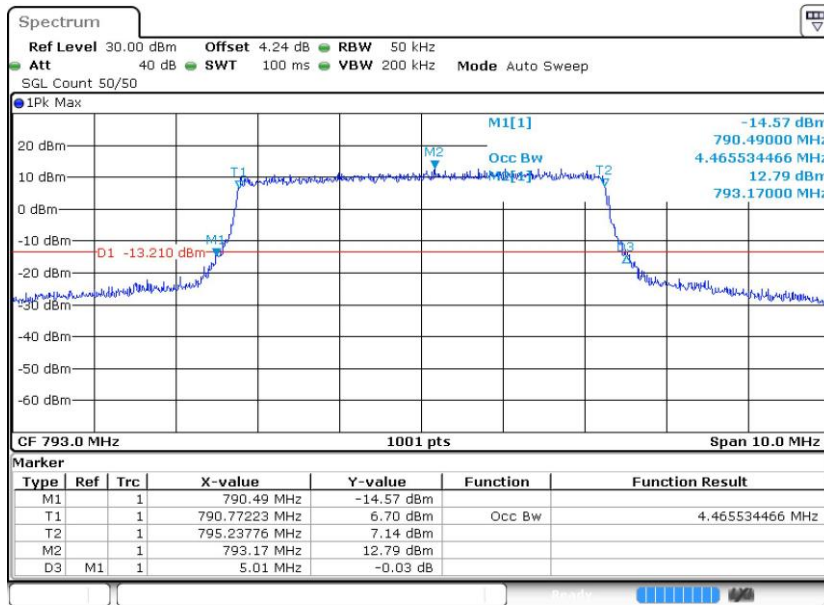
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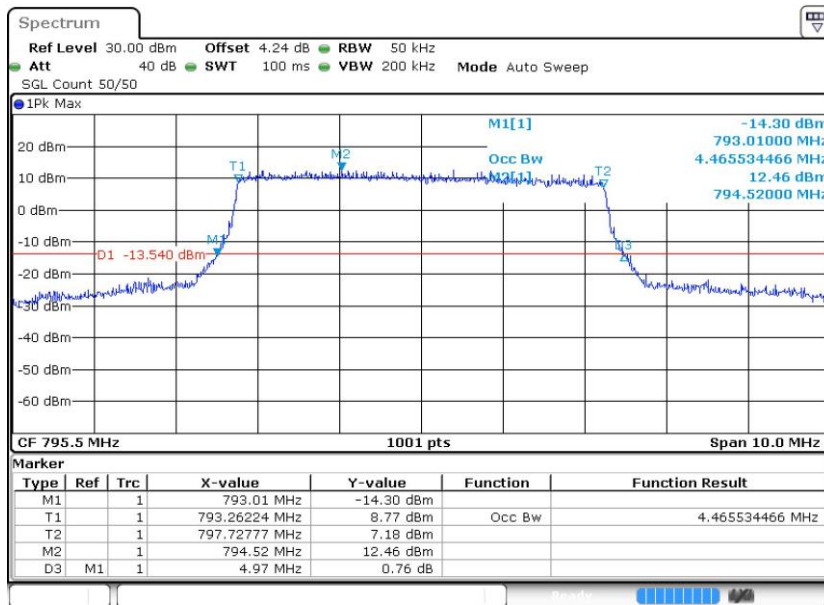
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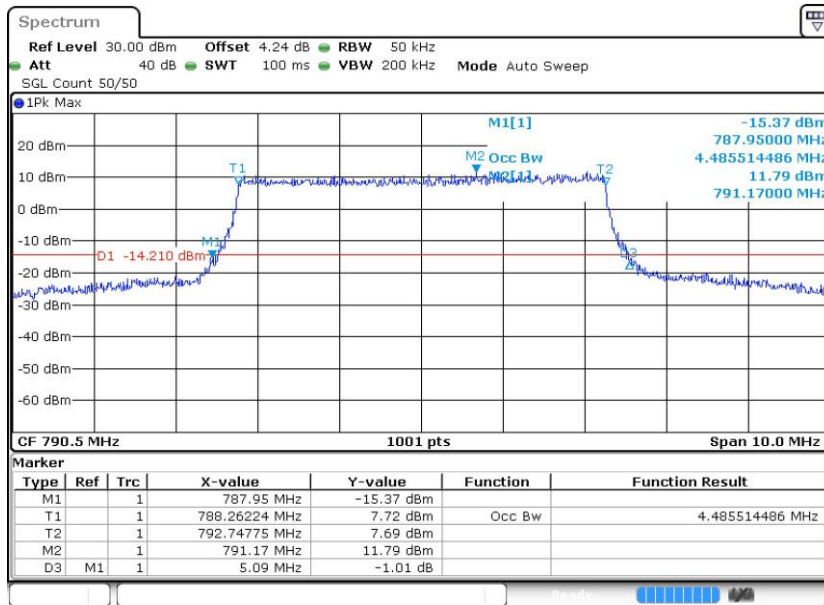
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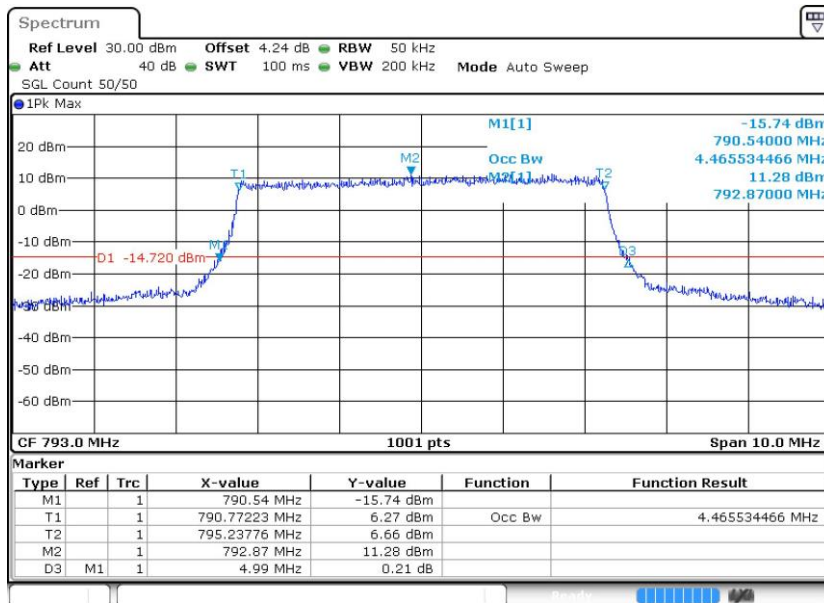
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Date: 19.DEC.2023 15:25:50

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



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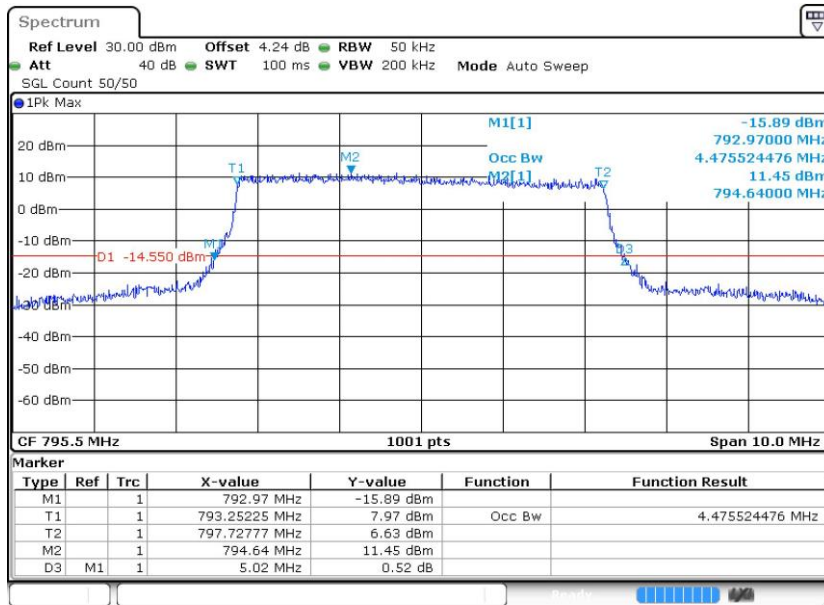
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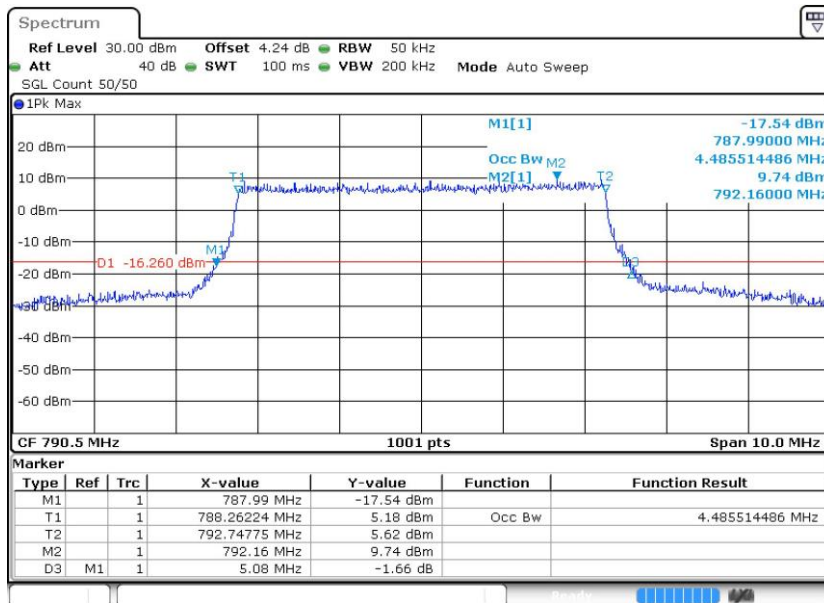
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Date: 19.DEC.2023 15:26:26

Band14-5MHz-256QAM-23305-25RB#0



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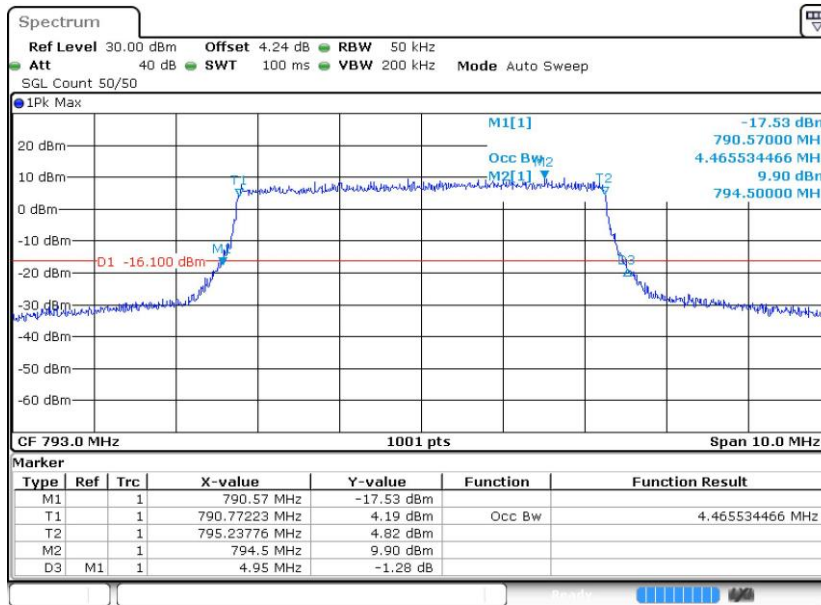
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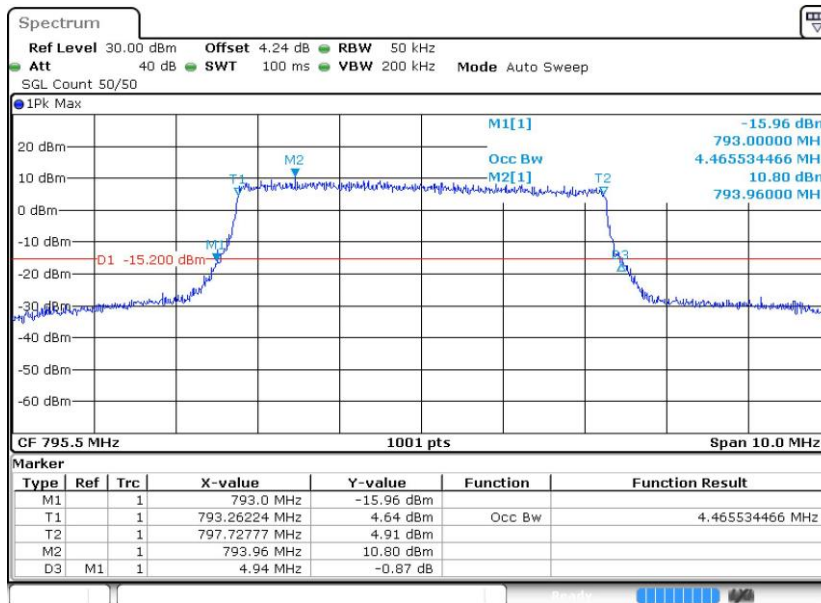
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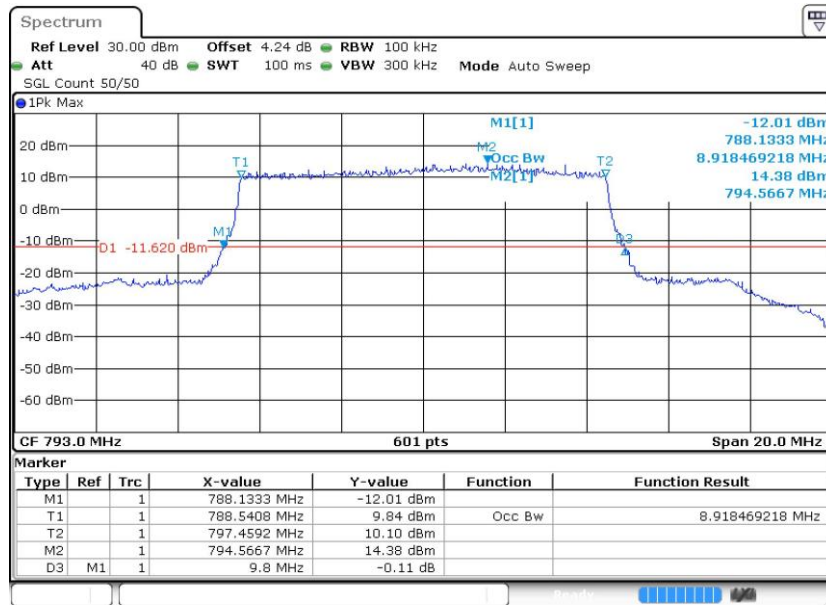
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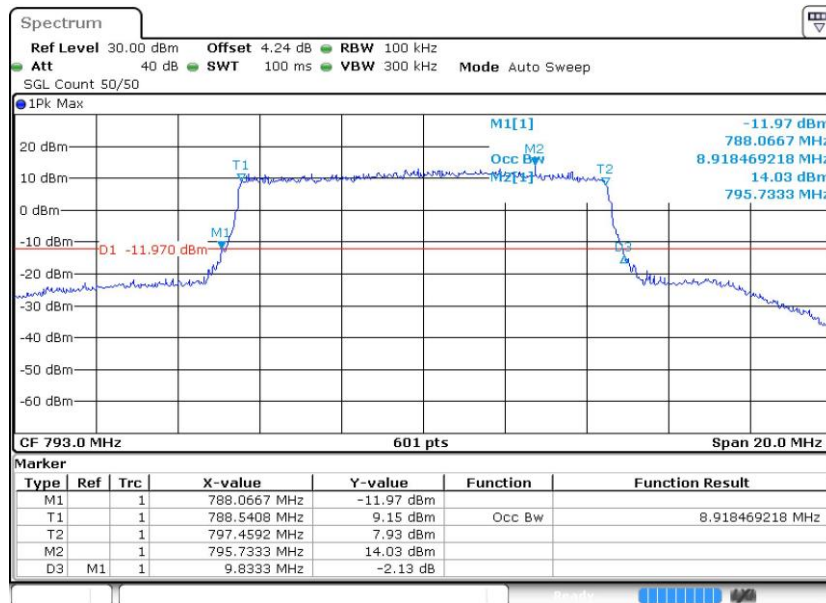
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Date: 19.DEC.2023 09:52:06

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



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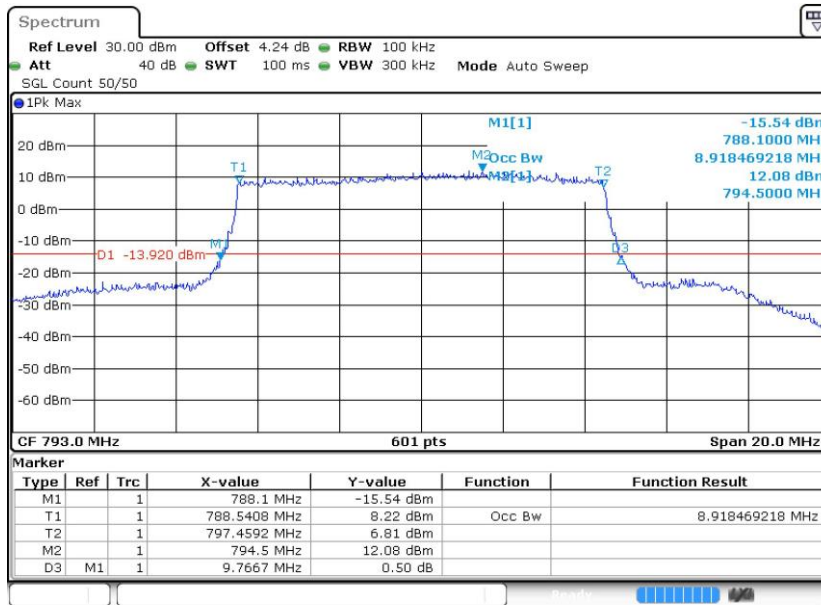
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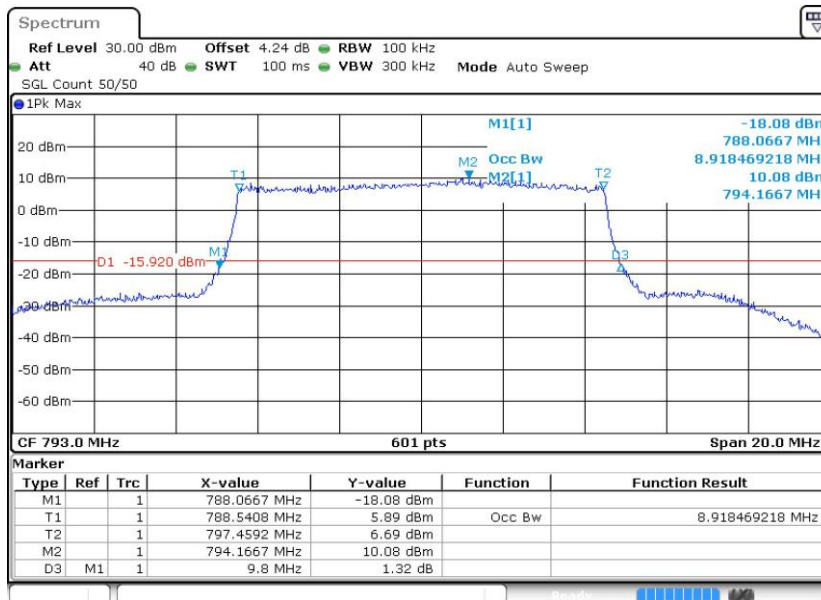
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Band14-10MHz-256QAM-23330-50RB#0



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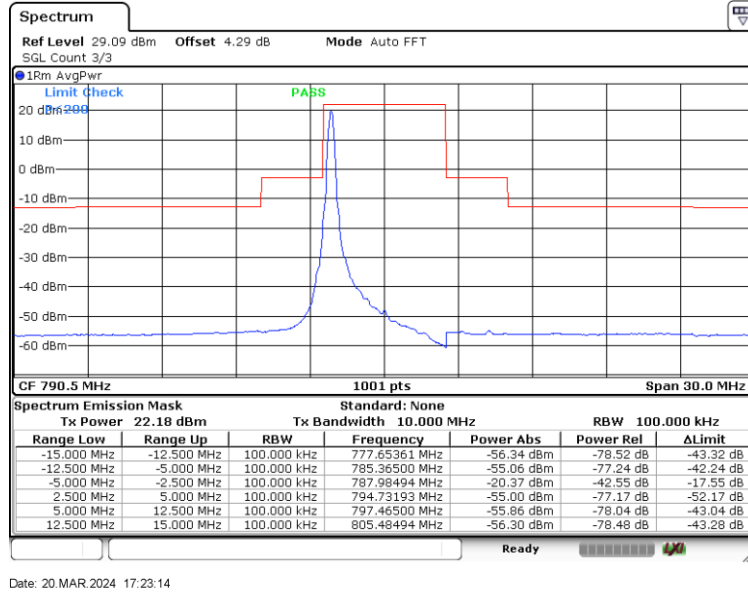
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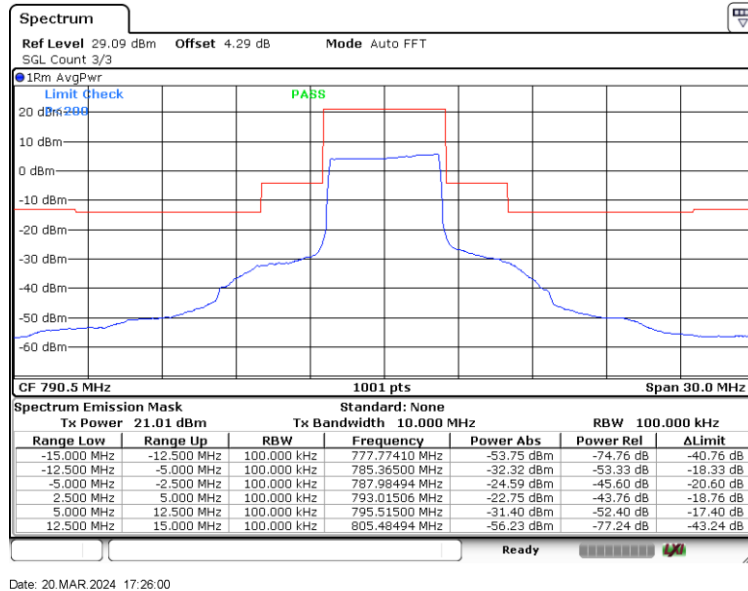
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Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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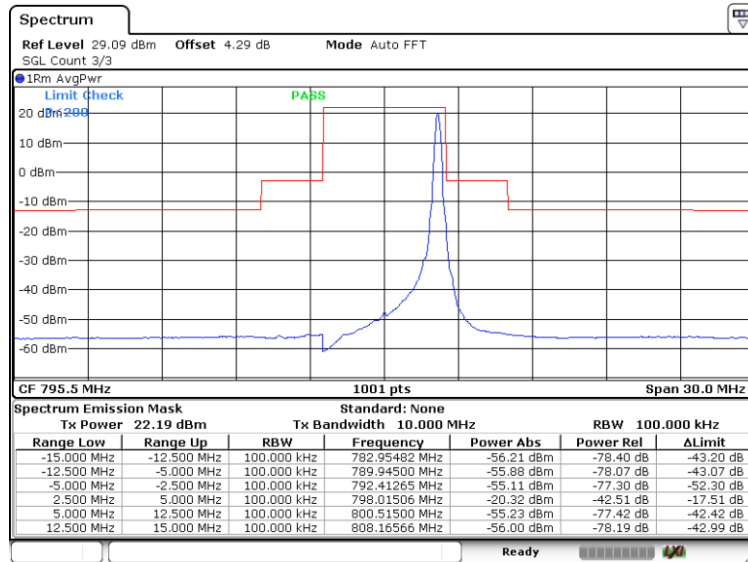
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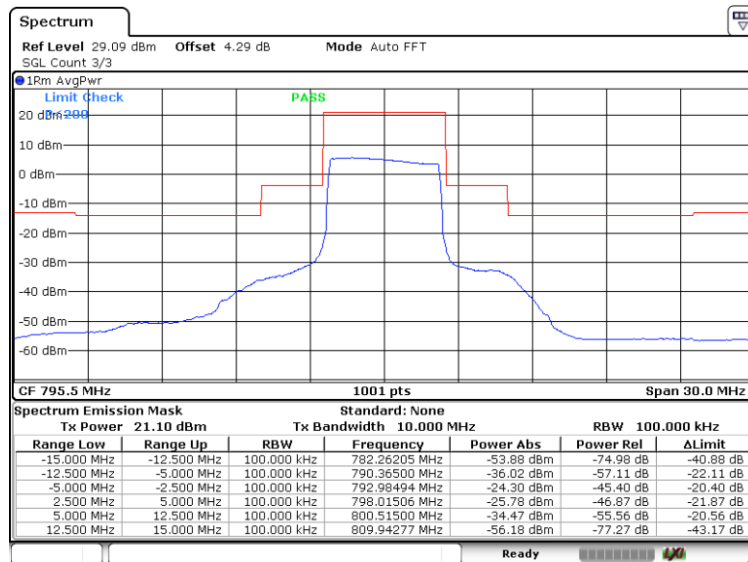
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Date: 20.MAR.2024 17:28:27



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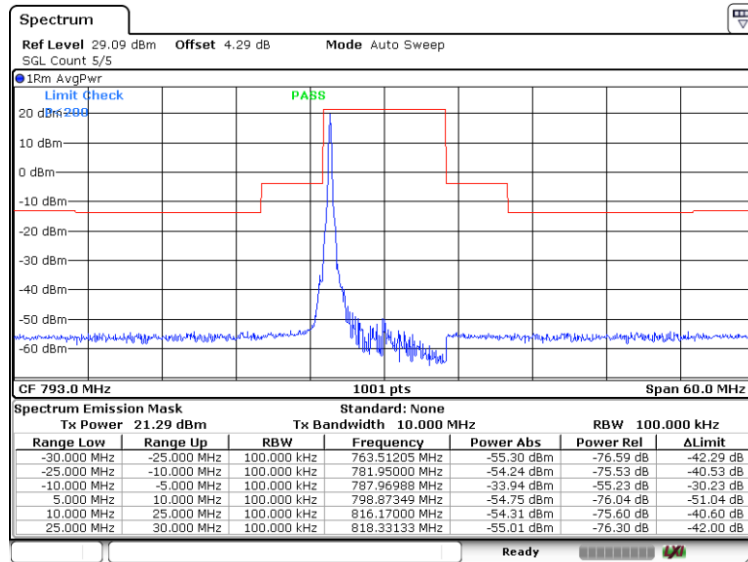
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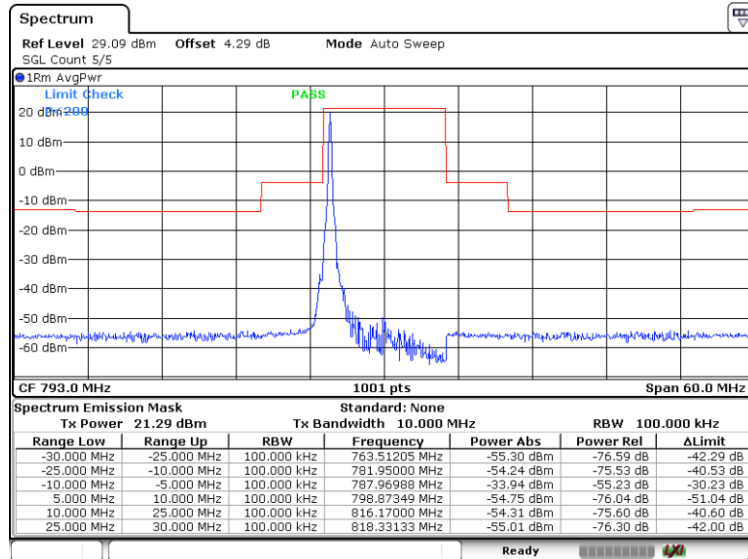
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Date: 20.MAR.2024 17:31:36

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



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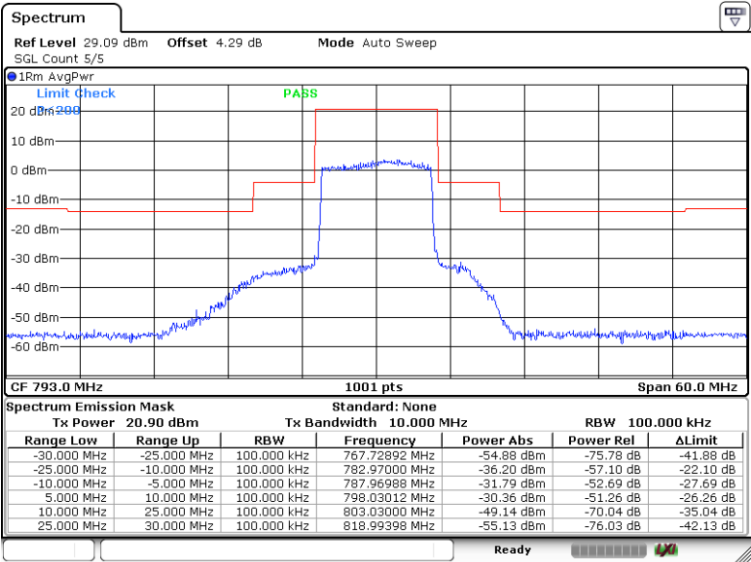
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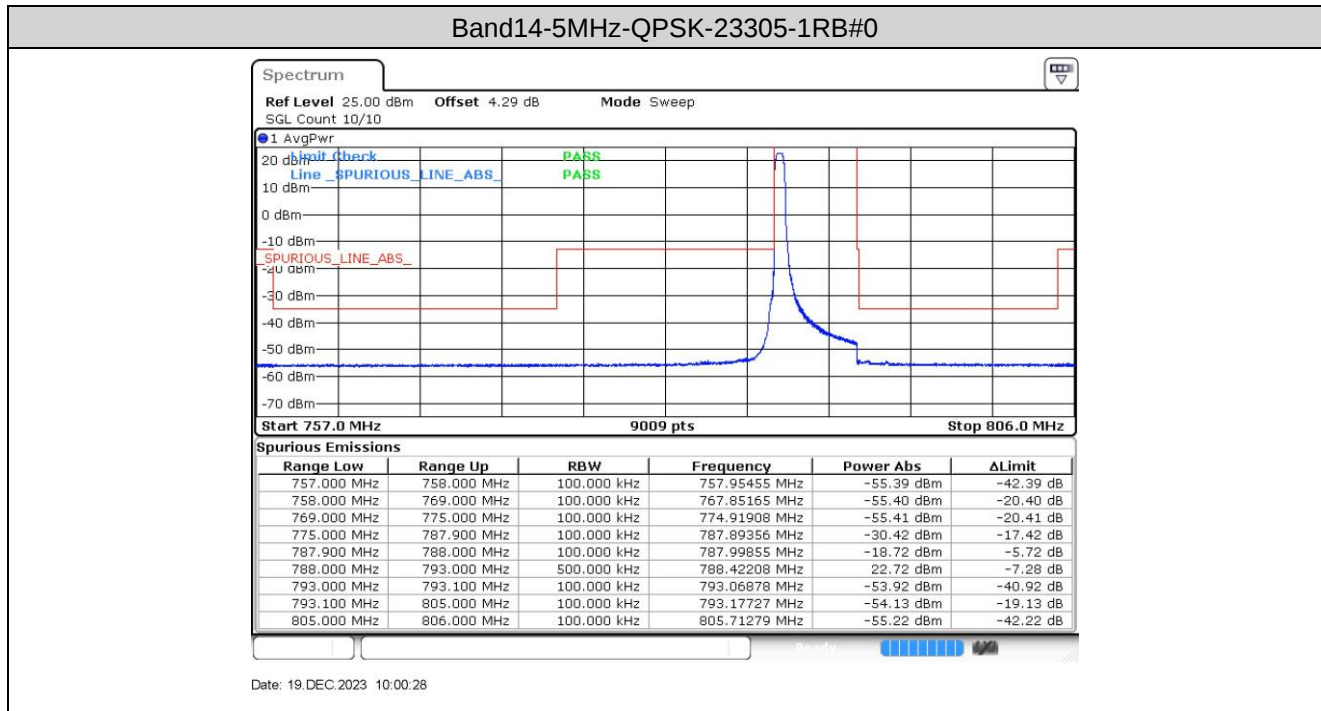


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Band Edge

Test Graphs



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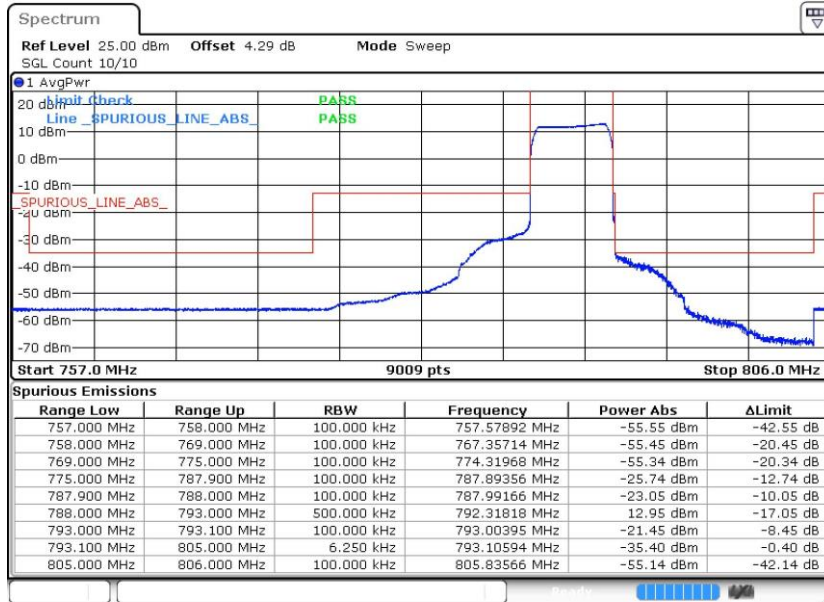
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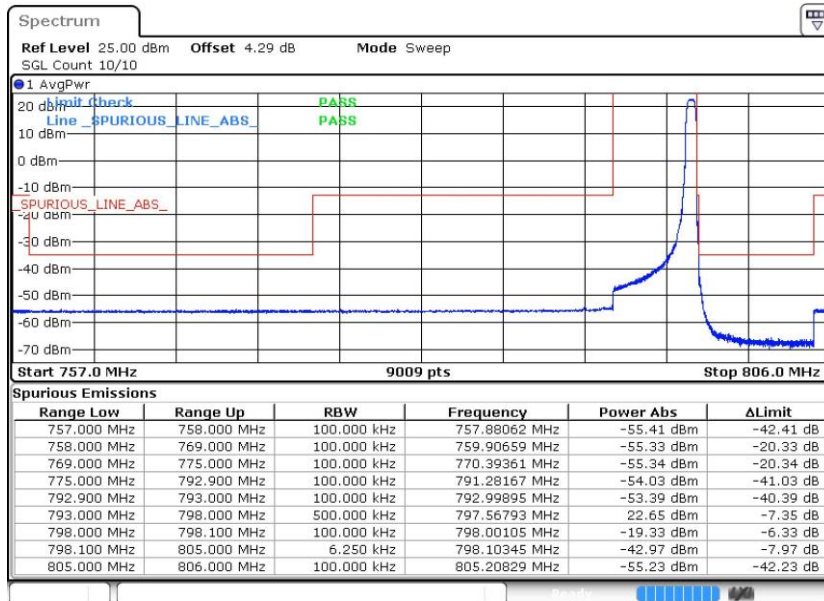
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Band14-5MHz-QPSK-23355-1RB#24



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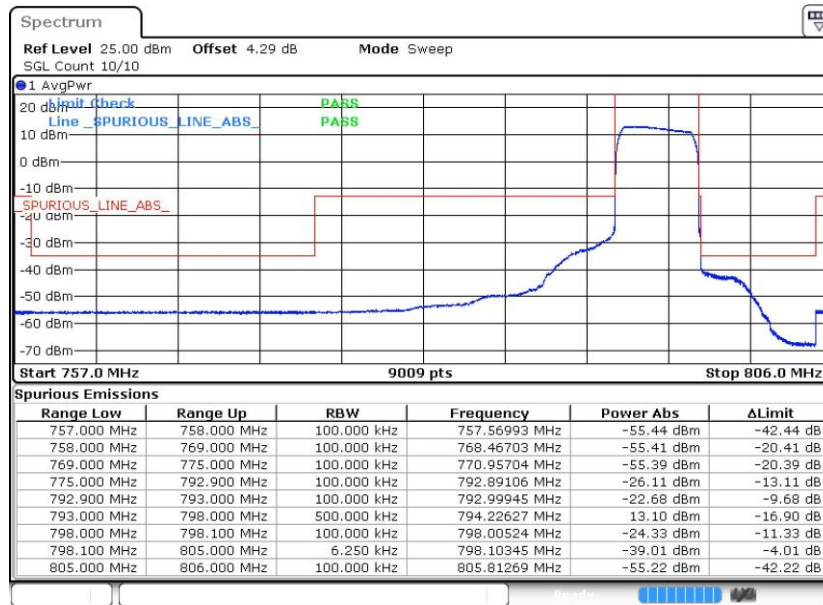
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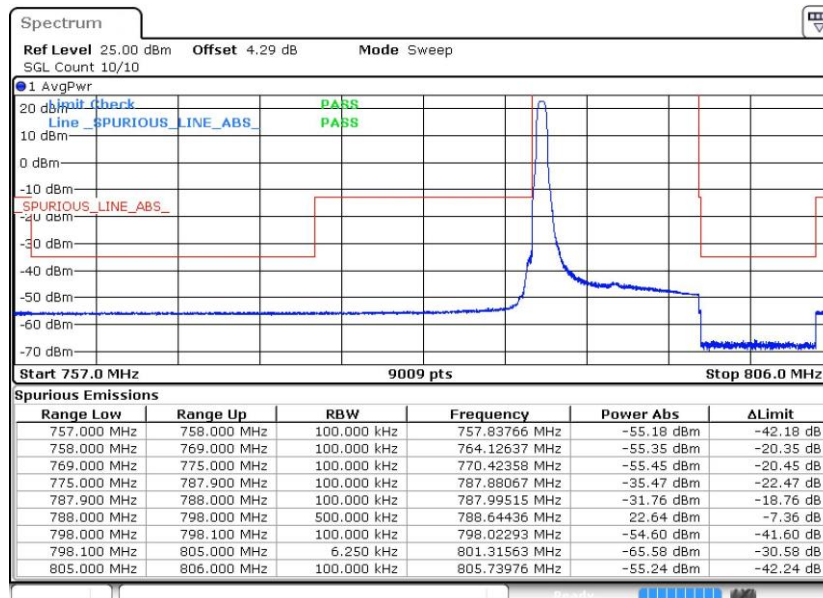
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Band14-5MHz-QPSK-23355-25RB#0



Date: 19.DEC.2023 10:17:20

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



Date: 19.DEC.2023 10:20:58



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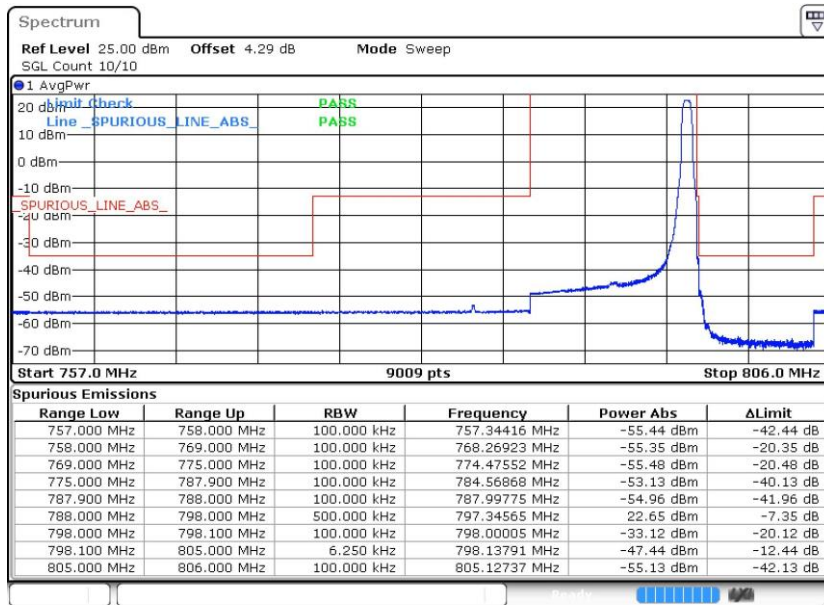
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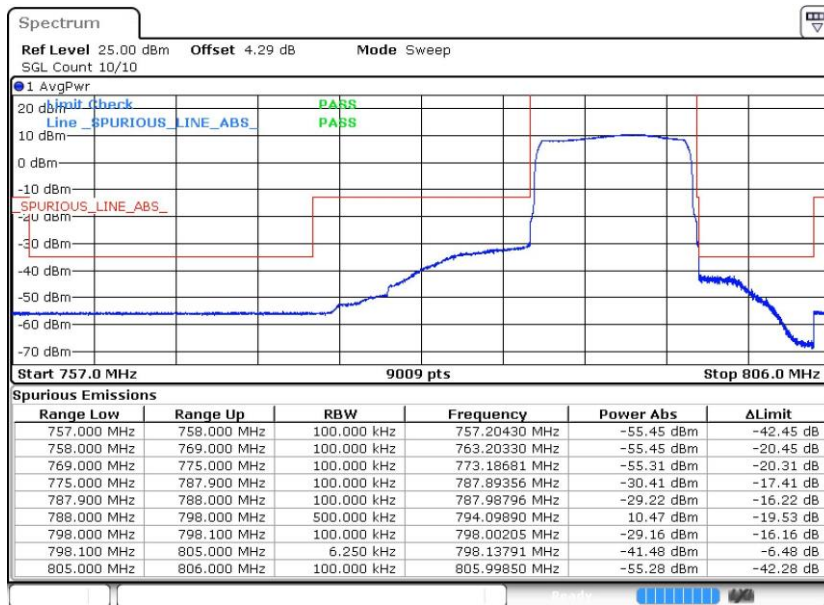
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Band14-10MHz-QPSK-23330-1RB#49



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



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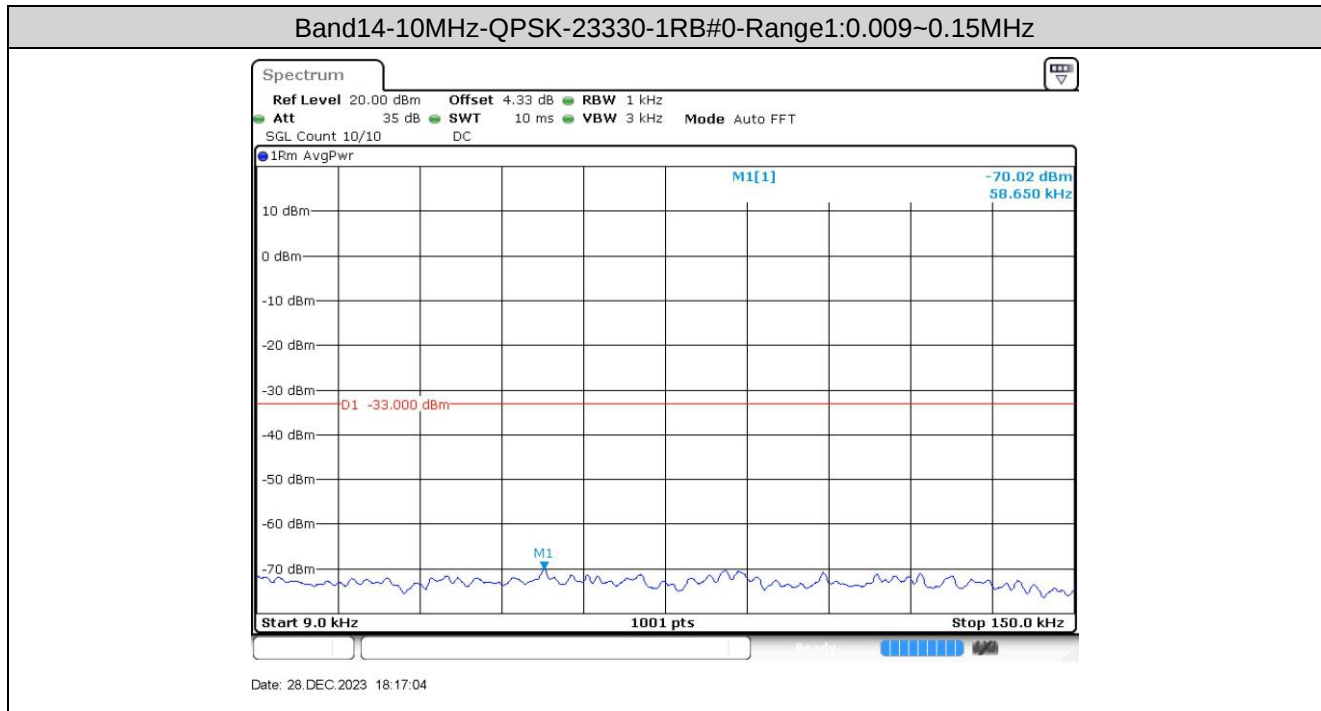


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Conducted Spurious Emission

Test Graphs



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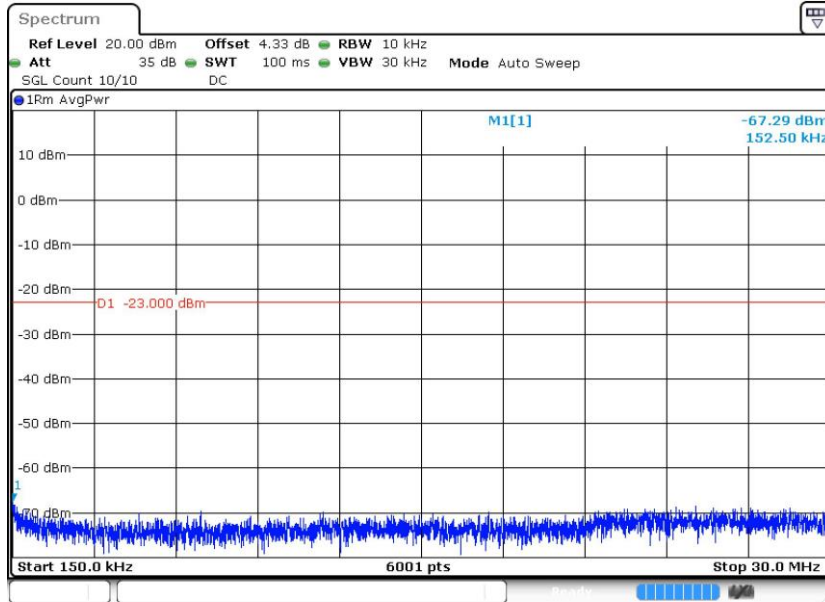
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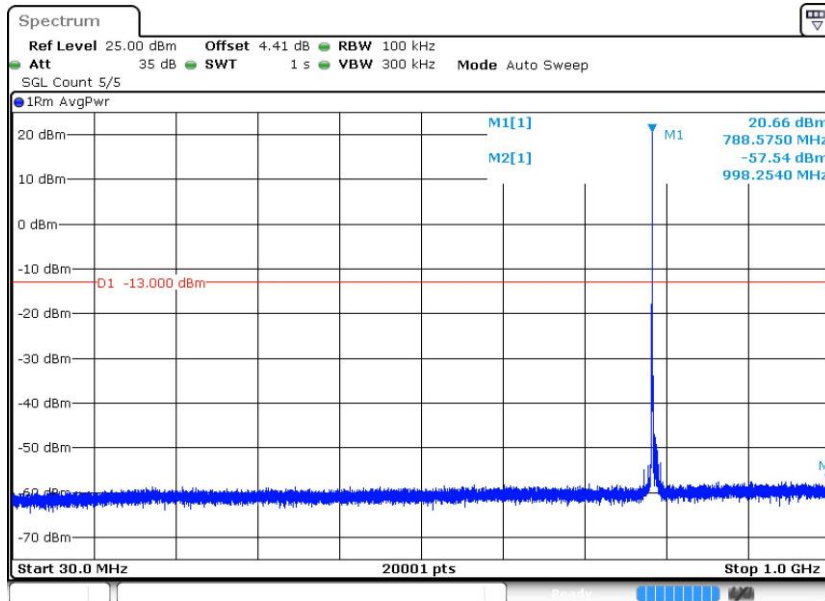
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Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



Date: 28.DEC.2023 18:17:09

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



Date: 28.DEC.2023 18:17:18



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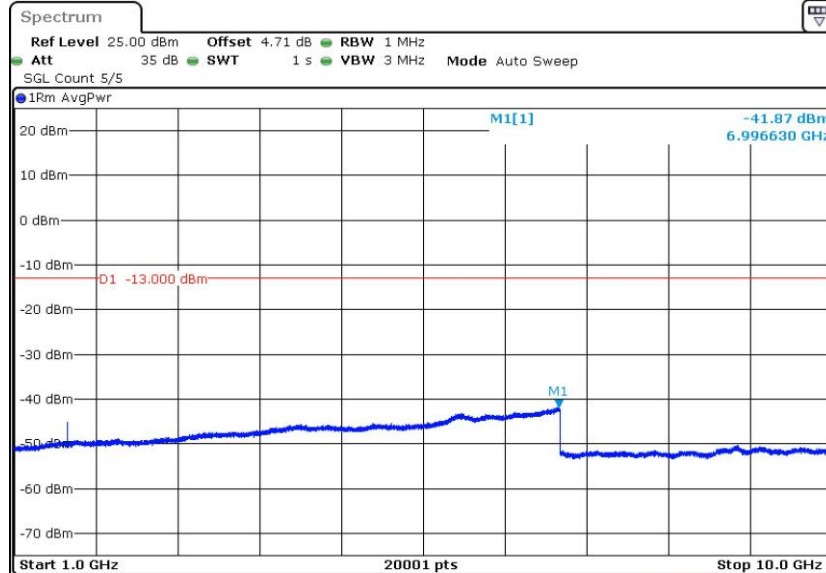
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Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = B14_10M_TM1

Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.0000	46.19	24.73	-48.94	-73.28	-13.00	60.28	Horizontal
2	2365.5000	45.63	27.08	-48.25	-70.80	-13.00	57.80	Horizontal
3	3154.0000	44.53	28.63	-47.59	-69.69	-13.00	56.69	Horizontal
4	3942.5000	44.24	29.41	-47.22	-68.83	-13.00	55.83	Horizontal
5	4731.0000	44.13	30.75	-46.96	-67.34	-13.00	54.34	Horizontal
6	5519.5000	44.13	32.59	-46.95	-65.49	-13.00	52.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.0000	45.71	24.73	-48.94	-73.76	-13.00	60.76	Vertical
2	2365.5000	45.21	27.08	-48.25	-71.22	-13.00	58.22	Vertical
3	3154.0000	45.14	28.63	-47.59	-69.08	-13.00	56.08	Vertical
4	3942.5000	44.35	29.41	-47.22	-68.72	-13.00	55.72	Vertical
5	4731.0000	44.17	30.75	-46.96	-67.30	-13.00	54.30	Vertical
6	5519.5000	44.27	32.59	-46.95	-65.35	-13.00	52.35	Vertical



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Test Band = B14_5M_TM1
Test Channel = Low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.5000	45.80	24.73	-48.94	-73.67	-13.00	60.67	Horizontal
2	2364.7500	45.96	27.08	-48.25	-70.47	-13.00	57.47	Horizontal
3	3153.0000	45.16	28.63	-47.60	-69.07	-13.00	56.07	Horizontal
4	3941.2500	44.49	29.41	-47.22	-68.58	-13.00	55.58	Horizontal
5	4729.5000	44.72	30.75	-46.96	-66.75	-13.00	53.75	Horizontal
6	5517.7500	44.01	32.59	-46.96	-65.62	-13.00	52.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.5000	46.18	24.73	-48.94	-73.29	-13.00	60.29	Vertical
2	2364.7625	47.36	27.08	-48.25	-69.07	-13.00	56.07	Vertical
3	3153.0000	44.64	28.63	-47.60	-69.59	-13.00	56.59	Vertical
4	3941.2500	44.51	29.41	-47.22	-68.56	-13.00	55.56	Vertical
5	4729.5000	44.28	30.75	-46.96	-67.19	-13.00	54.19	Vertical
6	5517.7500	44.23	32.59	-46.96	-65.40	-13.00	52.40	Vertical



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Test Band = B14_5M_TM1
Test Channel = Mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5000	46.87	24.74	-48.94	-72.59	-13.00	59.59	Horizontal
2	2372.2500	46.17	27.09	-48.24	-70.24	-13.00	57.24	Horizontal
3	3163.0000	45.08	28.63	-47.55	-69.10	-13.00	56.10	Horizontal
4	3953.7500	44.45	29.43	-47.24	-68.62	-13.00	55.62	Horizontal
5	4744.5000	44.42	30.79	-46.96	-67.01	-13.00	54.01	Horizontal
6	5535.2500	44.24	32.59	-46.91	-65.34	-13.00	52.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5000	45.86	24.74	-48.94	-73.60	-13.00	60.60	Vertical
2	2372.4	49.09	27.09	-48.24	-67.32	-13.00	54.32	Vertical
3	3163.0000	44.99	28.63	-47.55	-69.19	-13.00	56.19	Vertical
4	3953.7500	44.25	29.43	-47.24	-68.82	-13.00	55.82	Vertical
5	4744.5000	44.95	30.79	-46.96	-66.48	-13.00	53.48	Vertical
6	5535.2500	43.97	32.59	-46.91	-65.61	-13.00	52.61	Vertical



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Test Band = B14_5M_TM1
Test Channel = High channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.5000	45.86	24.76	-48.93	-73.57	-13.00	60.57	Horizontal
2	2379.7500	46.24	27.11	-48.24	-70.15	-13.00	57.15	Horizontal
3	3173.0000	45.18	28.63	-47.51	-68.96	-13.00	55.96	Horizontal
4	3966.2500	44.45	29.45	-47.26	-68.62	-13.00	55.62	Horizontal
5	4759.5000	44.38	30.82	-46.95	-67.01	-13.00	54.01	Horizontal
6	5552.7500	43.85	32.58	-46.87	-65.70	-13.00	52.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.5000	45.53	24.76	-48.93	-73.90	-13.00	60.90	Vertical
2	2380.0375	49.43	27.11	-48.24	-66.96	-13.00	53.96	Vertical
3	3173.0000	44.71	28.63	-47.51	-69.43	-13.00	56.43	Vertical
4	3966.2500	44.57	29.45	-47.26	-68.50	-13.00	55.50	Vertical
5	4759.5000	44.39	30.82	-46.95	-67.00	-13.00	54.00	Vertical
6	5552.7500	44.40	32.58	-46.87	-65.15	-13.00	52.15	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	2.10	0.002648	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.20	0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-0.50	-0.000631	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	1.00	0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	1.00	0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	0.00	0.000000	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	0.20	0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	0.80	0.001009	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	1.20	0.001513	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-0.30	-0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	0.30	0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	1.30	0.001639	PASS

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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 www.ssgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com