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Appendix B.8

LTE Band 14



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Wireless Laboratory

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中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元1层 邮编: 710086

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.09	20.70	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.14	20.75	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.98	20.59	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.03	19.64	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.96	20.57	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.03	20.64	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.89	20.50	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.01	19.62	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.91	20.52	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.02	20.63	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.89	20.50	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	21.87	19.48	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.03	19.64	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.12	19.73	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.99	19.60	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.13	18.74	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.93	19.54	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	21.99	19.60	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.84	19.45	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.01	18.62	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.07	19.68	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.15	19.76	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.03	19.64	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.83	18.44	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.05	20.66	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.11	20.72	34.77	PASS



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Band14	10MHz	QPSK	23330	1RB#49	22.88	20.49	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.03	19.64	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.16	19.77	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.21	19.82	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.00	19.61	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.03	18.64	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	4.78	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.60	13	PASS



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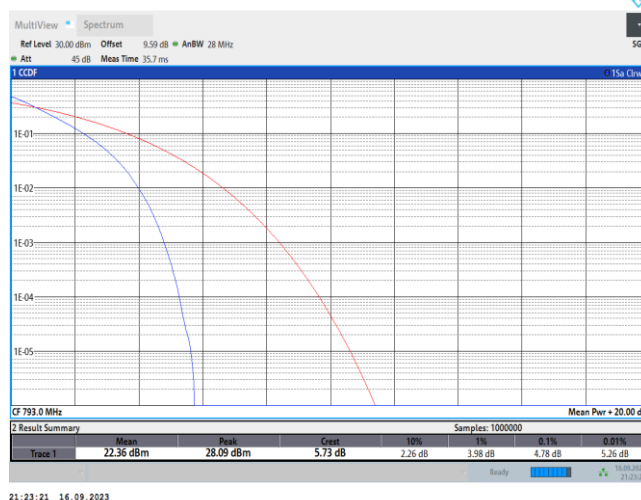
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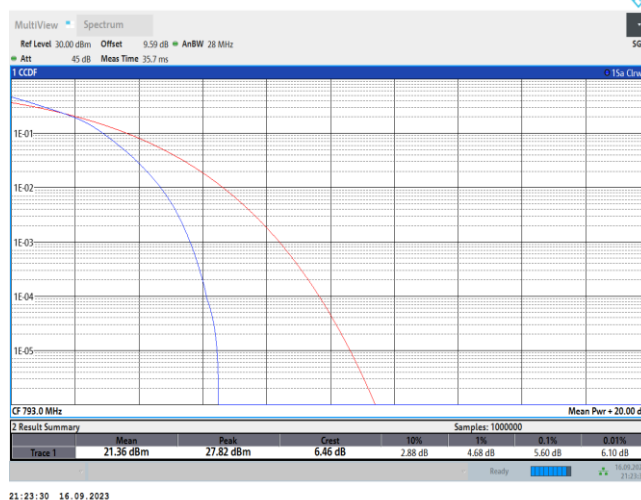
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Test Graphs

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



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



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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	4.506	4.90	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.49	5.28	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.484	4.98	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.486	4.99	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.489	5.00	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.482	4.98	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.975	9.53	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.931	9.63	PASS



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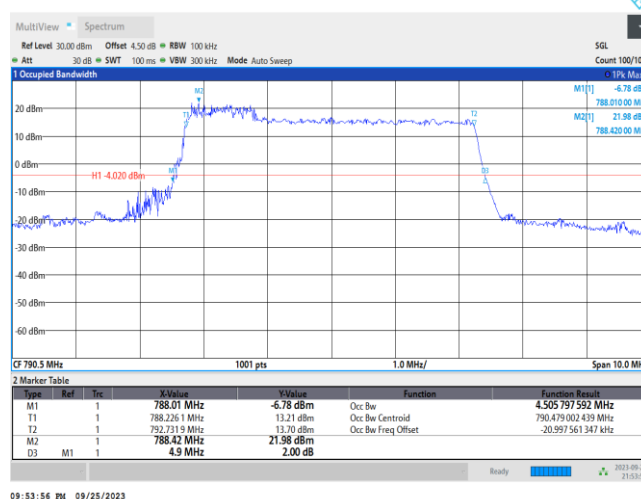
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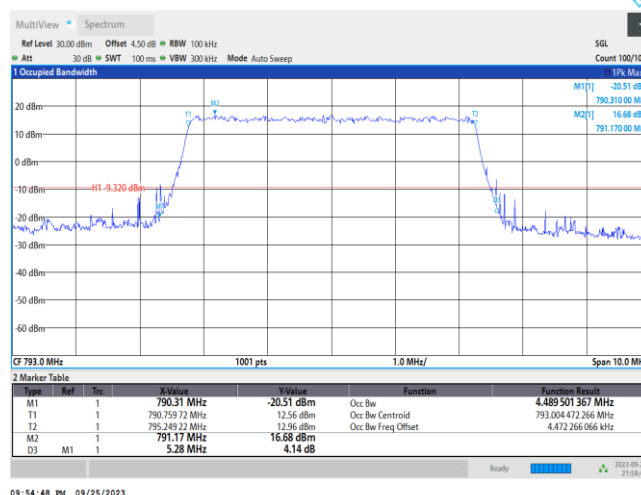
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Test Graphs

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



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

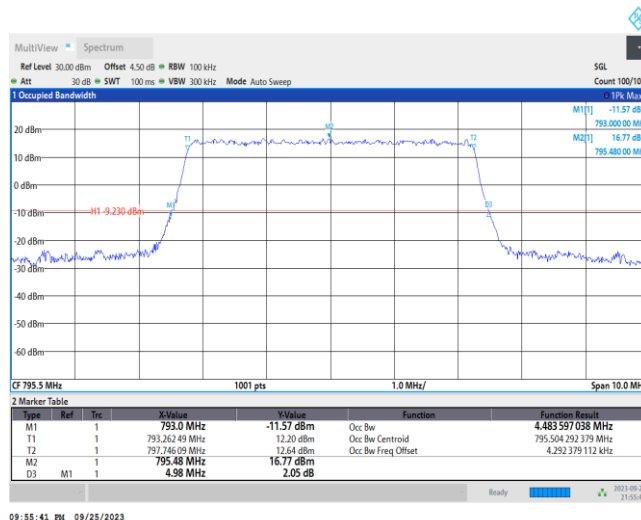


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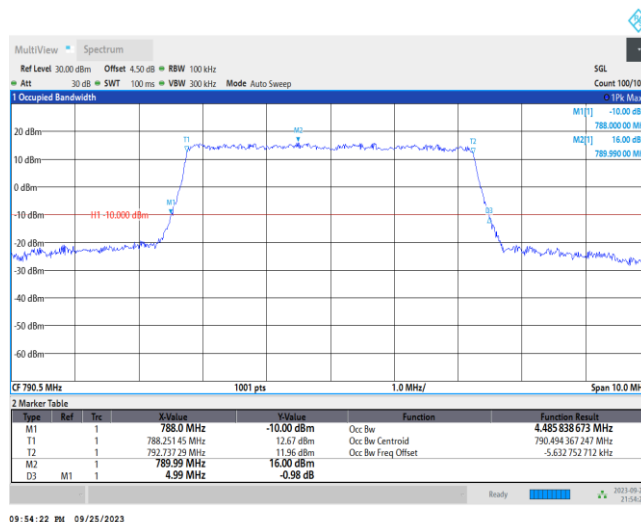
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Band14-5MHz-QPSK-23355-25RB#0



Band14-5MHz-16QAM-23305-25RB#0

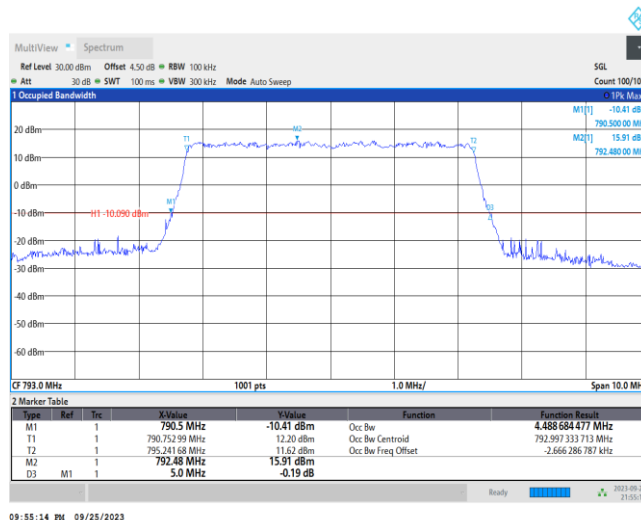


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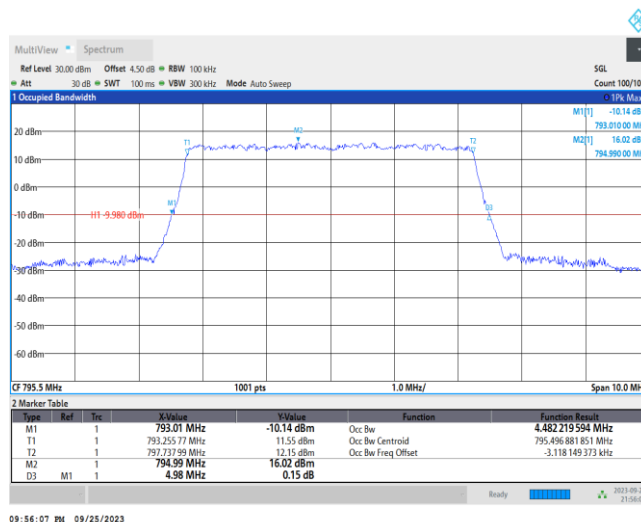
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Band14-5MHz-16QAM-23330-25RB#0



Band14-5MHz-16QAM-23355-25RB#0

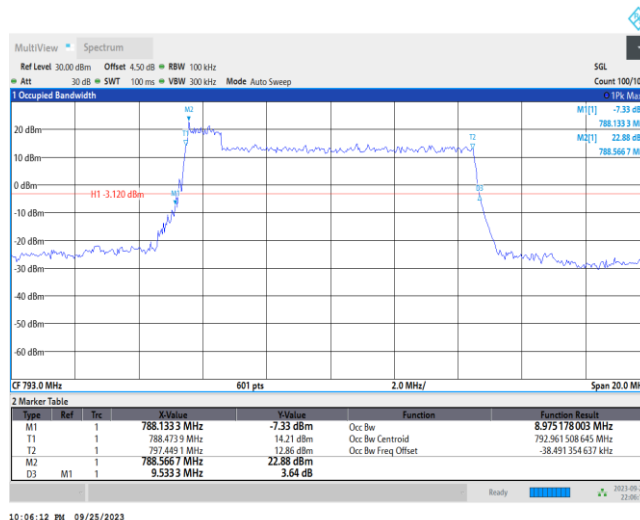


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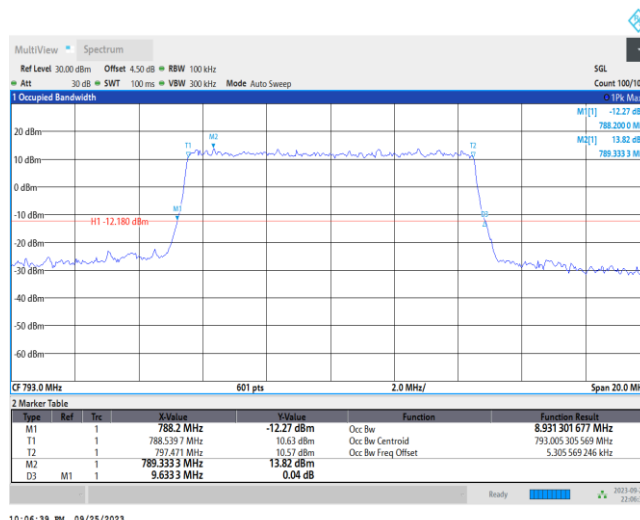
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Band14-10MHz-QPSK-23330-50RB#0



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



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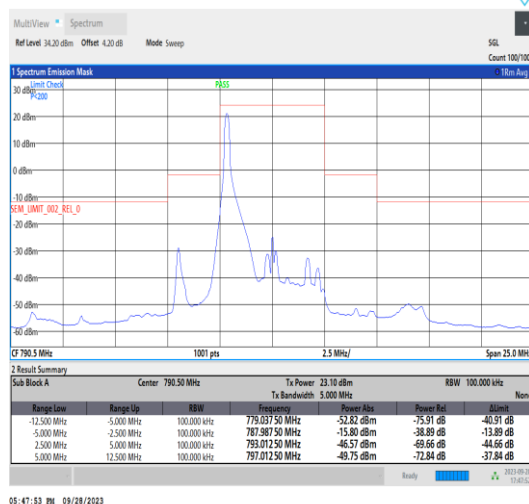
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Emission Mask

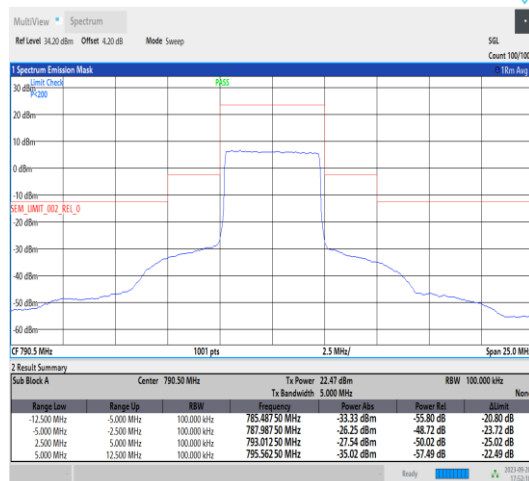
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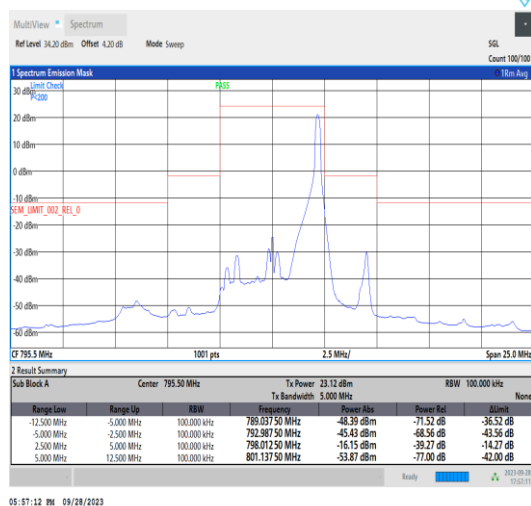
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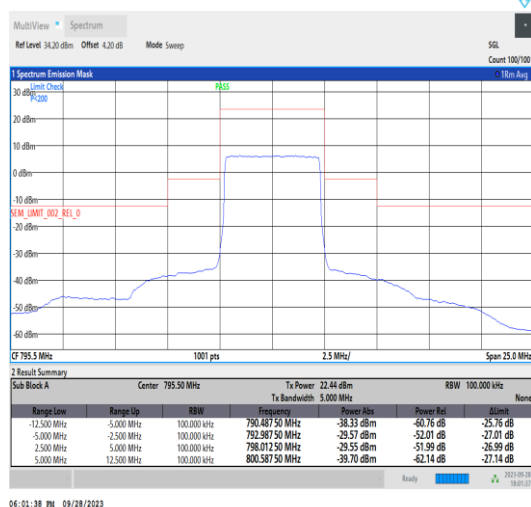
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Band14-5MHz-QPSK-23355-1RB#24



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



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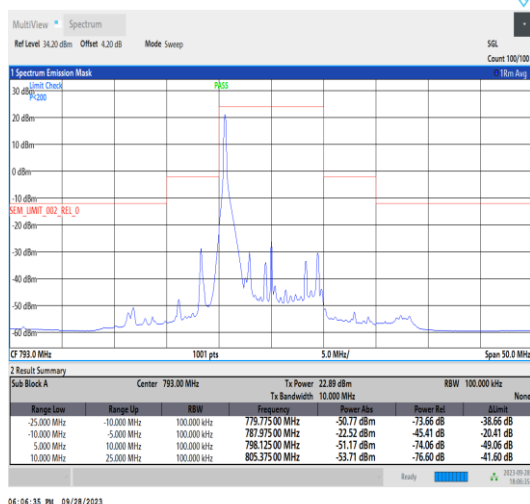
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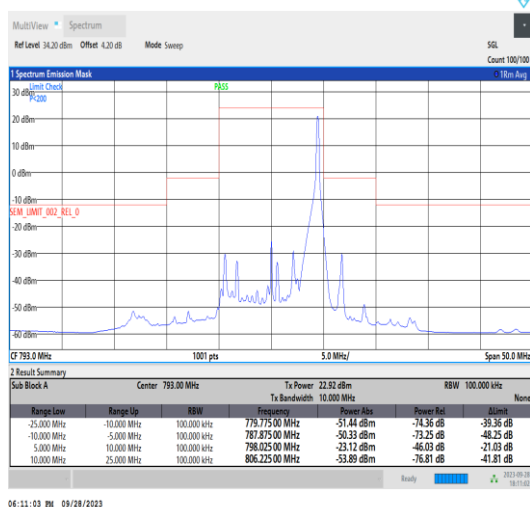
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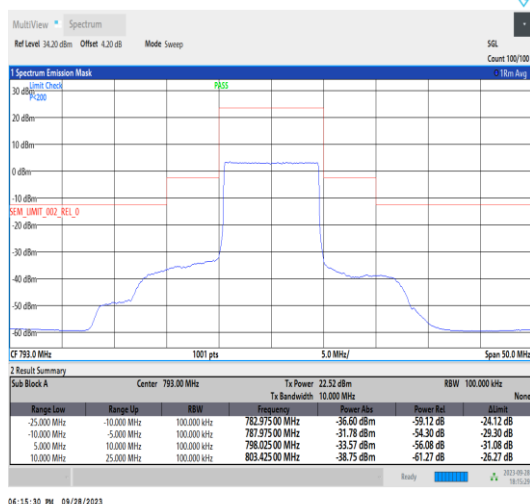


Band14-10MHz-QPSK-23330-1RB#49



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Report No.: XEWM2309000462RG01

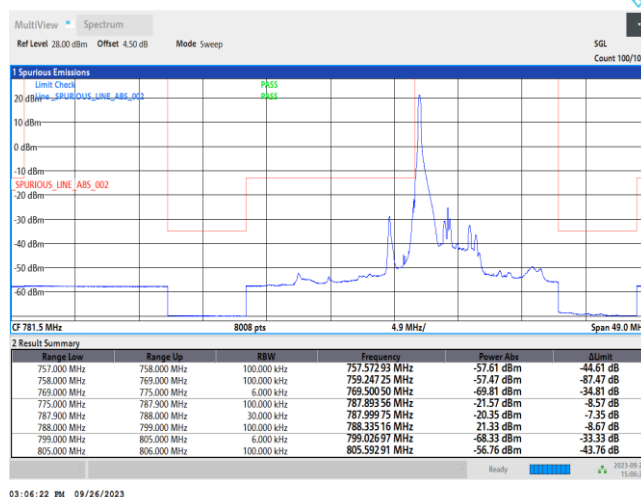
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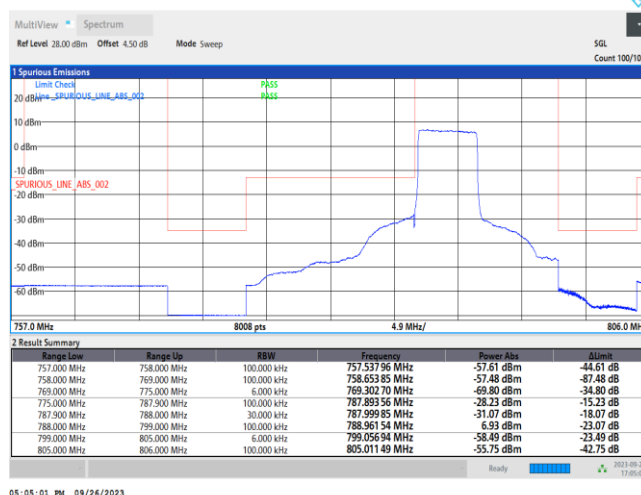
Band Edge

Test Graphs

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

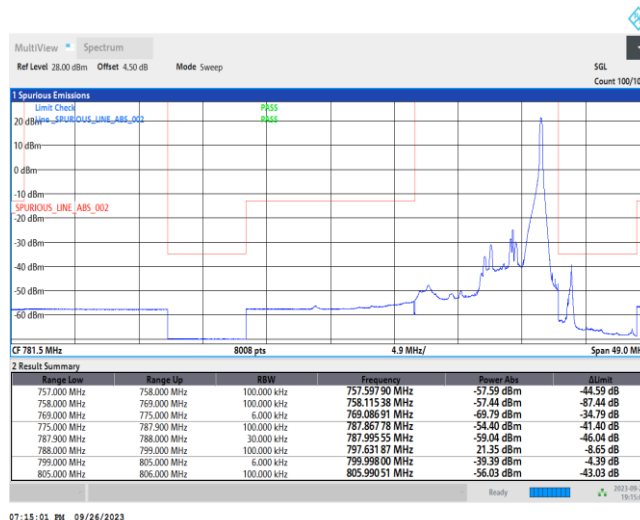


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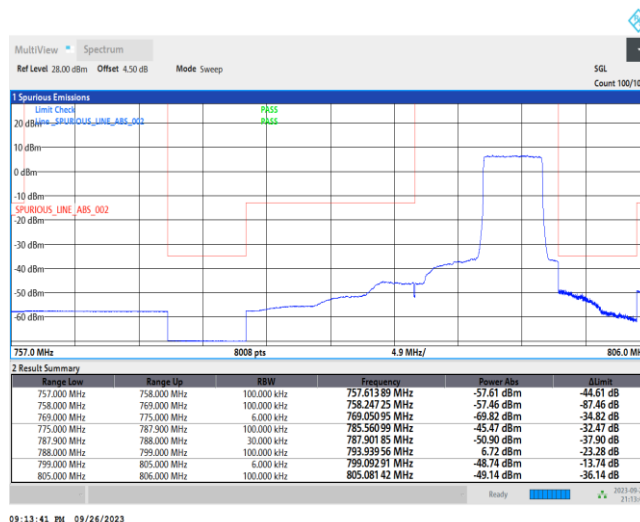


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Band14-5MHz-QPSK-23355-1RB#24



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



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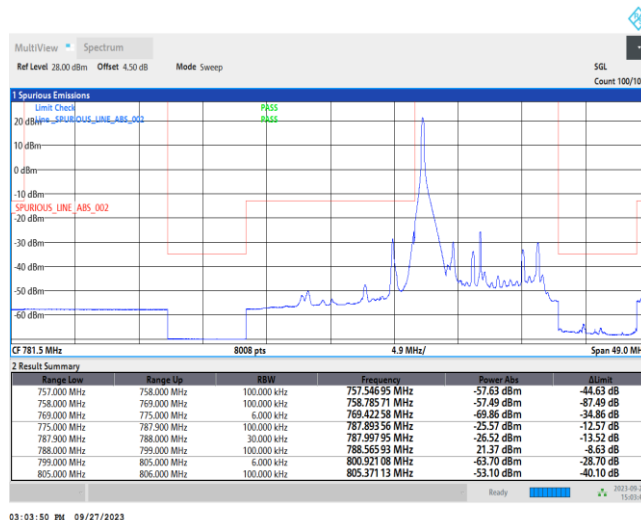
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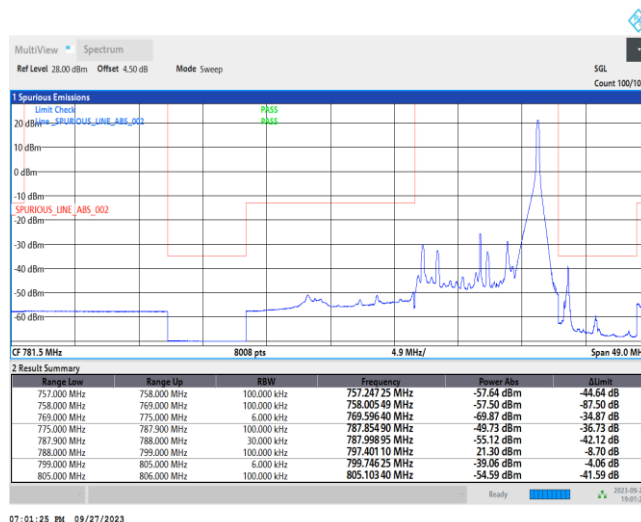
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Band14-10MHz-QPSK-23330-1RB#0



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



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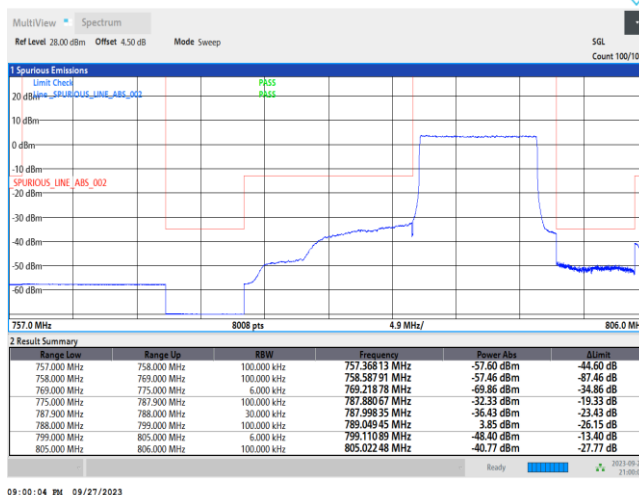


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Band14-10MHz-QPSK-23330-50RB#0



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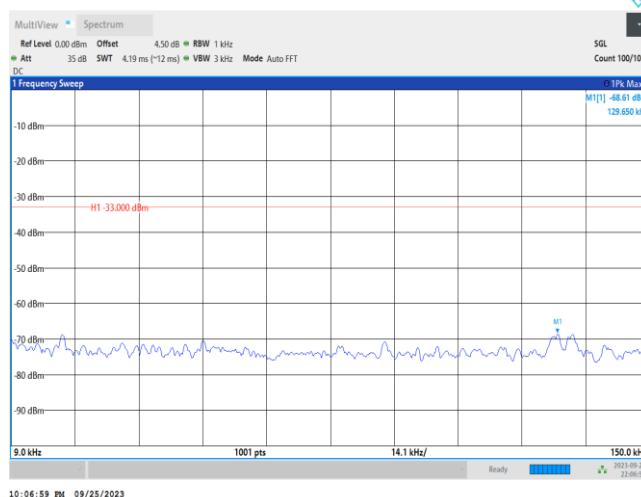
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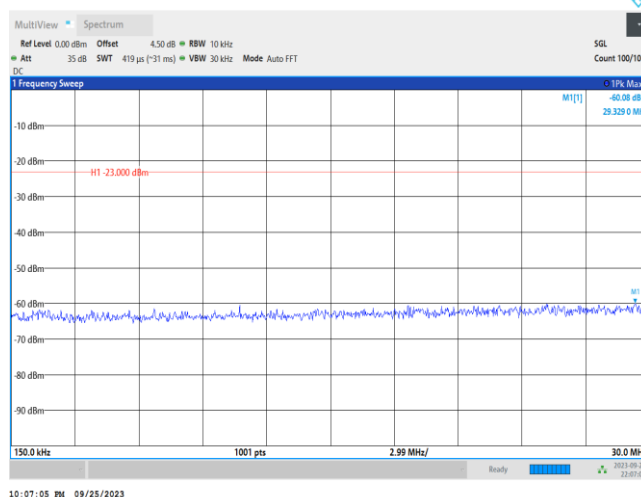
Conducted Spurious Emission

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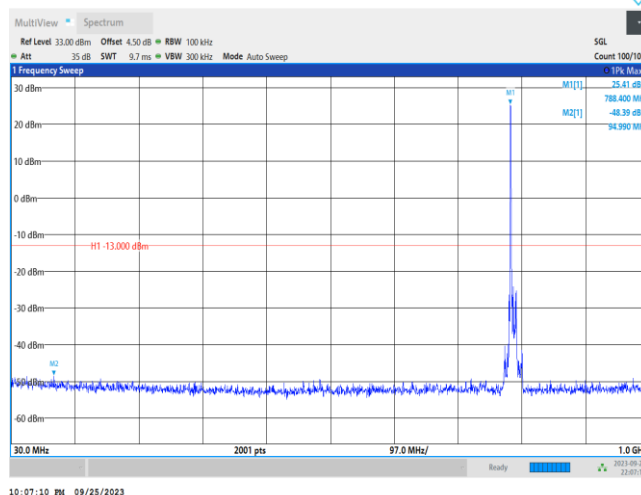
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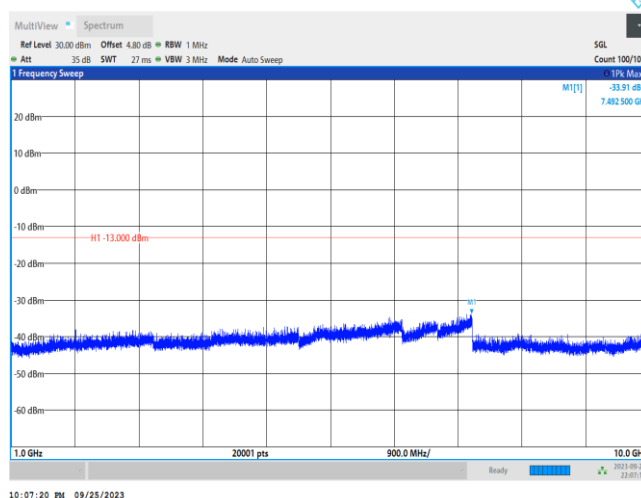
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_14-5MHz

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.19	-47.24	24.13	-63.18	-13.00	50.18	Horizontal
2	1576.5	53.62	-47.61	24.68	-64.57	-40.00	24.57	Horizontal
3	2540.5	53.45	-46.48	27.80	-60.49	-13.00	47.49	Horizontal
4	5524.5	50.10	-41.87	32.30	-54.73	-13.00	41.73	Horizontal
5	7418	43.41	-38.36	36.74	-53.47	-13.00	40.47	Horizontal
6	9913.5	41.75	-35.34	38.61	-50.24	-13.00	37.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	52.72	-47.24	24.13	-65.65	-13.00	52.65	Vertical
2	1576.5	53.73	-47.61	24.68	-64.46	-40.00	24.46	Vertical
3	2540.5	55.20	-46.48	27.80	-58.74	-13.00	45.74	Vertical
4	3854.5	46.72	-44.76	29.70	-63.60	-13.00	50.60	Vertical
5	5524.5	49.01	-41.87	32.30	-55.82	-13.00	42.82	Vertical
6	9912.5	41.65	-35.34	38.61	-50.34	-13.00	37.34	Vertical



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Test Band = LTE_14-5MHz
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.66	-47.24	24.13	-63.71	-13.00	50.71	Horizontal
2	1581.5	52.83	-47.61	24.77	-65.27	-40.00	25.27	Horizontal
3	2540.5	54.00	-46.48	27.80	-59.94	-13.00	46.94	Horizontal
4	5524.5	50.01	-41.87	32.30	-54.82	-13.00	41.82	Horizontal
5	7421.5	43.67	-38.36	36.74	-53.21	-13.00	40.21	Horizontal
6	10000	41.80	-35.68	38.70	-50.44	-13.00	37.44	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.50	-47.24	24.13	-64.87	-13.00	51.87	Vertical
2	1581.5	51.44	-47.61	24.77	-66.66	-40.00	26.66	Vertical
3	2046.5	55.30	-46.90	26.31	-60.55	-13.00	47.55	Vertical
4	2540.5	55.10	-46.48	27.80	-58.84	-13.00	45.84	Vertical
5	5524.5	49.13	-41.87	32.30	-55.70	-13.00	42.70	Vertical
6	9938.5	42.03	-35.44	38.64	-50.03	-13.00	37.03	Vertical



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Test Band = LTE_14-5MHz
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.19	-47.24	24.13	-63.18	-13.00	50.18	Horizontal
2	1586.5	54.70	-47.61	24.86	-63.31	-40.00	23.31	Horizontal
3	2752.5	53.27	-46.12	28.11	-60.00	-13.00	47.00	Horizontal
4	5524.5	49.97	-41.87	32.30	-54.86	-13.00	41.86	Horizontal
5	7424	43.37	-38.36	36.75	-53.50	-13.00	40.50	Horizontal
6	9888.5	42.11	-35.32	38.51	-49.96	-13.00	36.96	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	52.88	-47.24	24.13	-65.49	-13.00	52.49	Vertical
2	1586.5	54.32	-47.61	24.86	-63.69	-40.00	23.69	Vertical
3	2046.5	55.03	-46.90	26.31	-60.82	-13.00	47.82	Vertical
4	2540.5	55.37	-46.48	27.80	-58.57	-13.00	45.57	Vertical
5	5524.5	49.00	-41.87	32.30	-55.83	-13.00	42.83	Vertical
6	9883.5	41.74	-35.33	38.47	-50.38	-13.00	37.38	Vertical



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Test Band = LTE_14-10MHz
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.22	-47.24	24.13	-63.15	-13.00	50.15	Horizontal
2	1577	53.31	-47.61	24.69	-64.87	-40.00	24.87	Horizontal
3	2046.5	53.92	-46.90	26.31	-61.93	-13.00	48.93	Horizontal
4	2681.5	54.26	-46.18	27.96	-59.22	-13.00	46.22	Horizontal
5	5524.5	49.73	-41.87	32.30	-55.10	-13.00	42.10	Horizontal
6	9929	41.97	-35.40	38.63	-50.06	-13.00	37.06	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.34	-47.24	24.13	-65.03	-13.00	52.03	Vertical
2	1577	53.00	-47.61	24.69	-65.18	-40.00	25.18	Vertical
3	2046.5	55.55	-46.90	26.31	-60.30	-13.00	47.30	Vertical
4	2540.5	55.27	-46.48	27.80	-58.67	-13.00	45.67	Vertical
5	5524.5	49.06	-41.87	32.30	-55.77	-13.00	42.77	Vertical
6	9982	41.78	-35.61	38.68	-50.41	-13.00	37.41	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-8.63	-0.010883	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-12.22	-0.015410	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-9.47	-0.011942	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-3.06	-0.003859	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-10.46	-0.013190	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-9.53	-0.012018	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-5.62	-0.007087	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-4.53	-0.005712	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-4.13	-0.005208	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-3.59	-0.004527	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-4.18	-0.005271	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-6.18	-0.007793	PASS

---End of Attachment---



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 I/F: Unit D, Building 1, Kanglong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xian, Shaanxi, China 710086
 t (86-29) 6282 7885 www.sgs.com.cn
 f (86-29) 6282 7885 sgs.china@sgs.com
 中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元1层 邮编: 710086