



Report No.: XEWM2306000327RG01
Rev.: 01
Page: 1 of 32

Appendix B.8

LTE Band 14



SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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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	24.35	25.2	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.18	25.03	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.39	25.24	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	24.18	25.03	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.16	25.01	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.13	24.98	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.37	25.22	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	24.19	25.04	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.18	25.03	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.39	25.24	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.35	25.2	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	24.19	25.04	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.44	24.29	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.52	24.37	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.43	24.28	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.38	23.23	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.48	24.33	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.48	24.33	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.43	24.28	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.29	23.14	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.39	24.24	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.48	24.33	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.48	24.33	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.26	23.11	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.44	23.29	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.42	23.27	34.77	PASS



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Report No.: XEWM2306000327RG01

Rev.: 01

Page: 3 of 32

Band14	5MHz	64QAM	23305	1RB#24	22.44	23.29	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	21.37	22.22	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.52	23.37	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.42	23.27	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.34	23.19	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.29	22.14	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.46	23.31	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.33	23.18	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.34	23.19	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.29	22.14	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.33	25.18	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.1	24.95	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.11	24.96	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	24.31	25.16	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.47	24.32	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.55	24.4	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.43	24.28	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.32	23.17	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.4	23.25	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.42	23.27	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.3	23.15	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	21.31	22.16	34.77	PASS



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Report No.: XEWM2306000327RG01
 Rev.: 01
 Page: 4 of 32

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.42	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.20	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.54	13	PASS

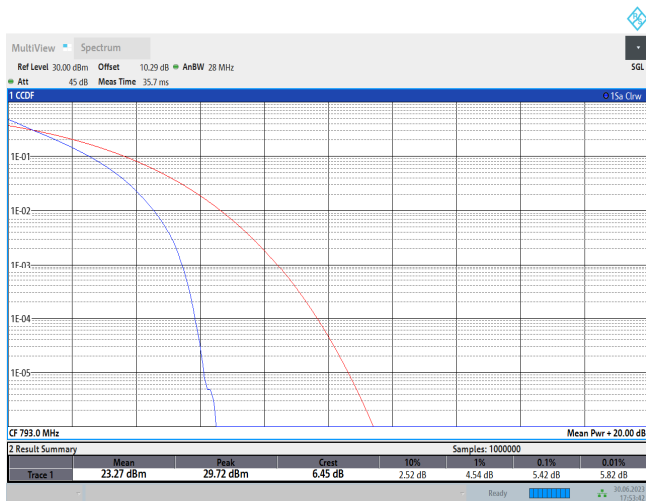


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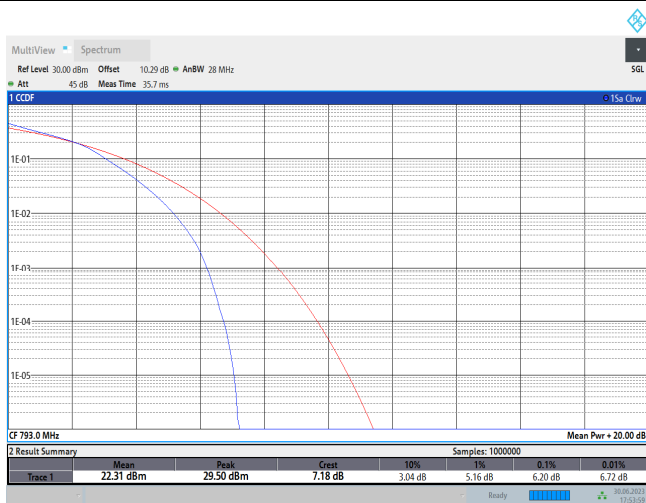
Test Graphs

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



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

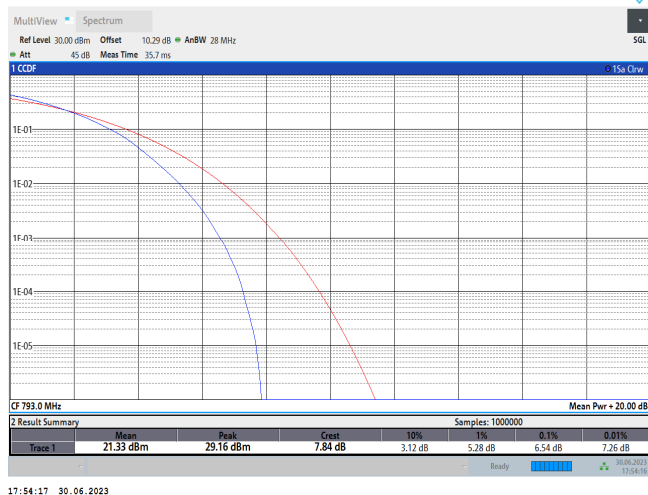


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Band14-10MHz-64QAM-23330-50RB#0



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Rev.: 01

Page: 7 of 32

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS
Band14	10MHz	64QAM	23330	50RB#0	PASS	PASS



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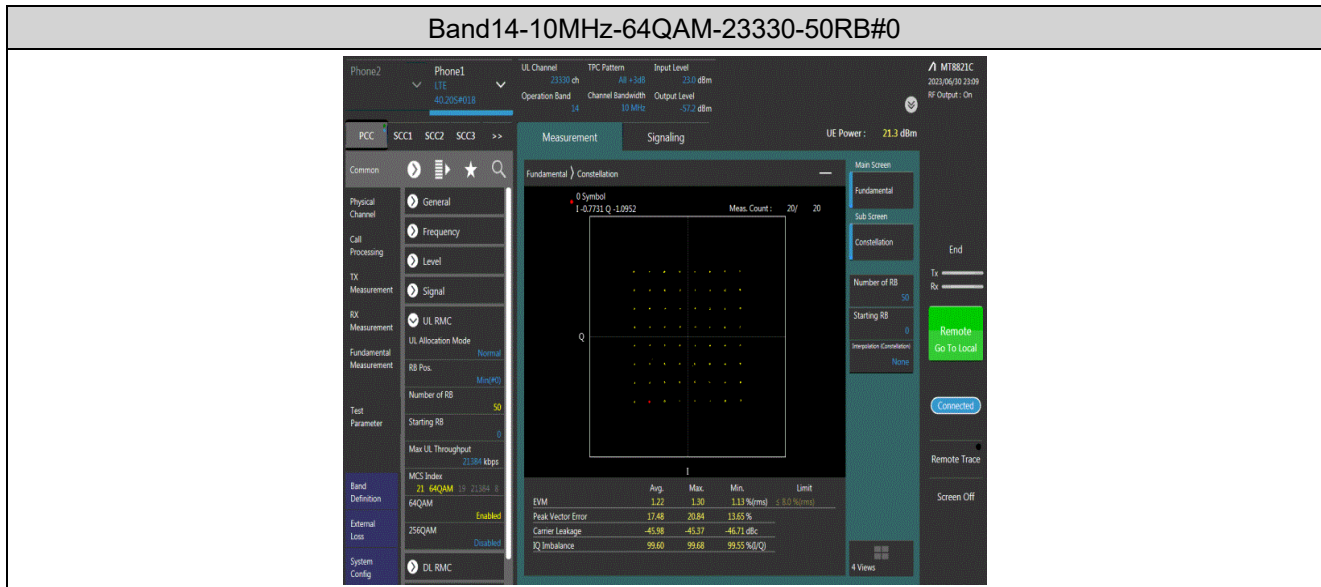
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.47	4.88	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.47	4.88	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.474	4.90	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.465	4.89	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.466	4.90	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.472	4.91	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.479	4.89	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.477	4.89	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.482	4.92	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.92	9.63	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.914	9.67	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.927	9.63	PASS



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Test Graphs

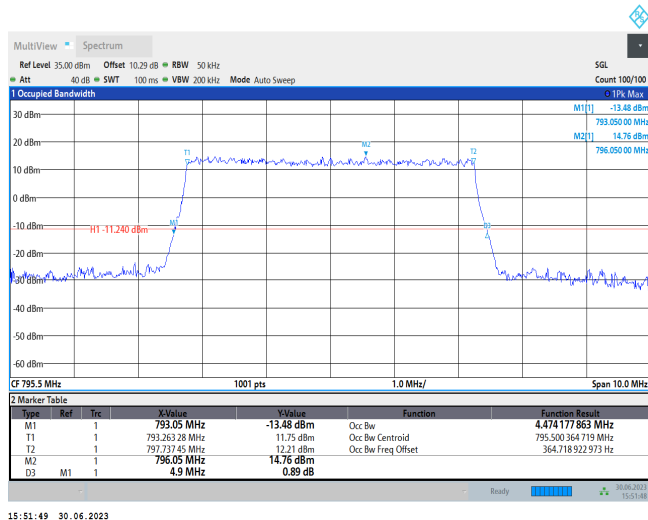


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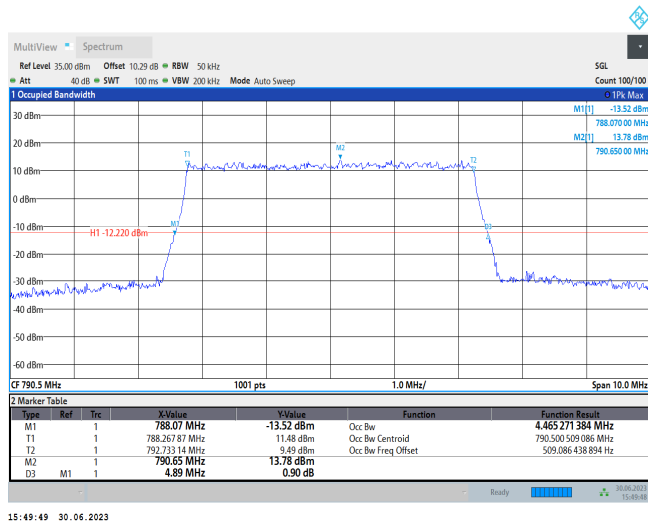
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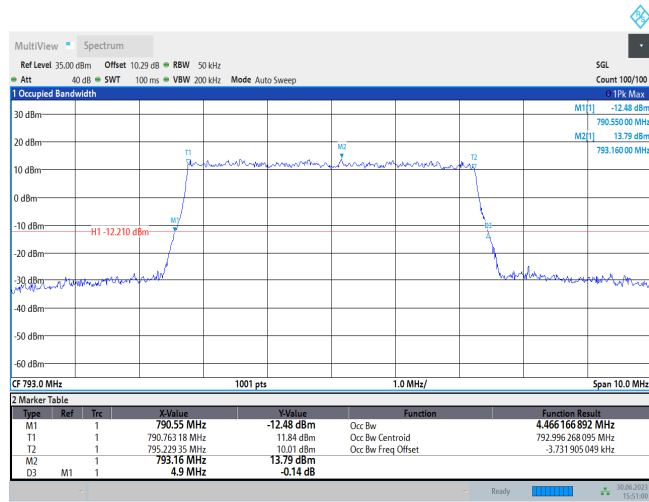
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Band14-5MHz-16QAM-23330-25RB#0



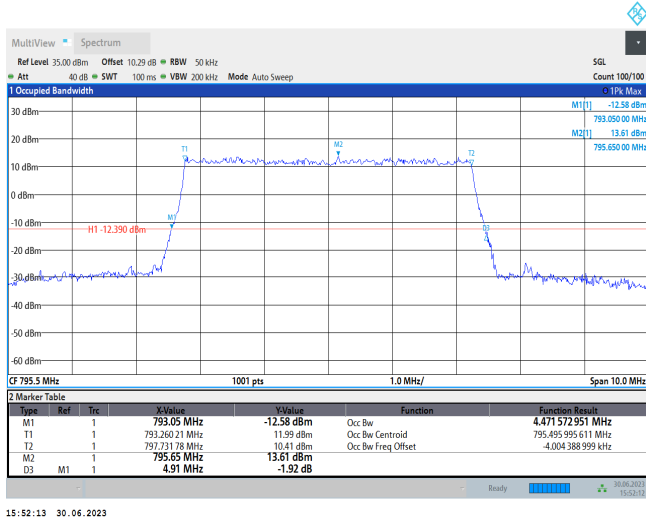
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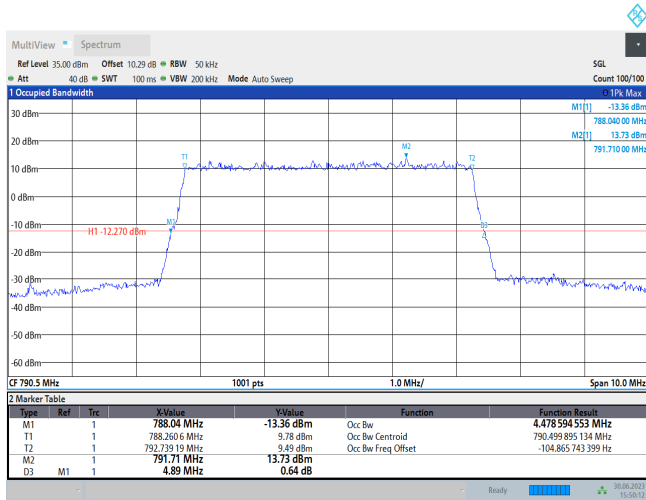
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Band14-5MHz-16QAM-23355-25RB#0



15:52:13 30.06.2023

Band14-5MHz-64QAM-23305-25RB#0

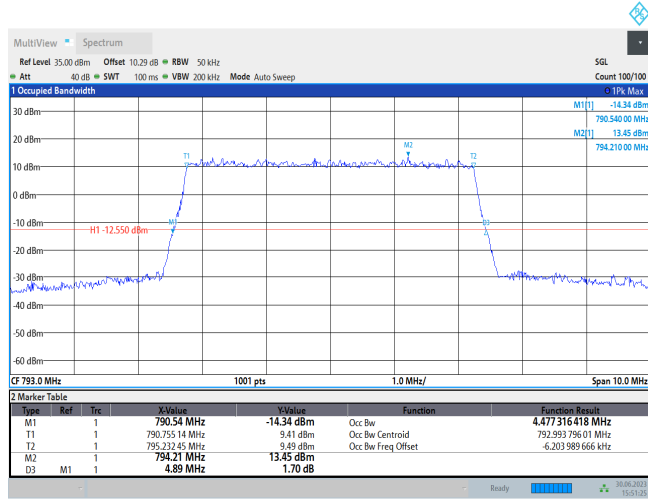


15:50:12 30.06.2023



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



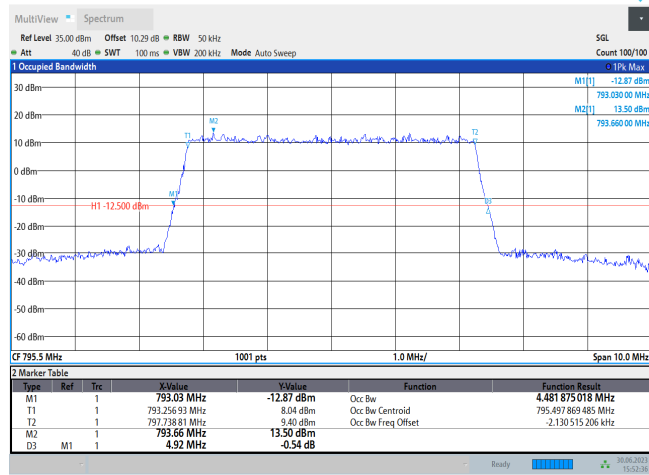
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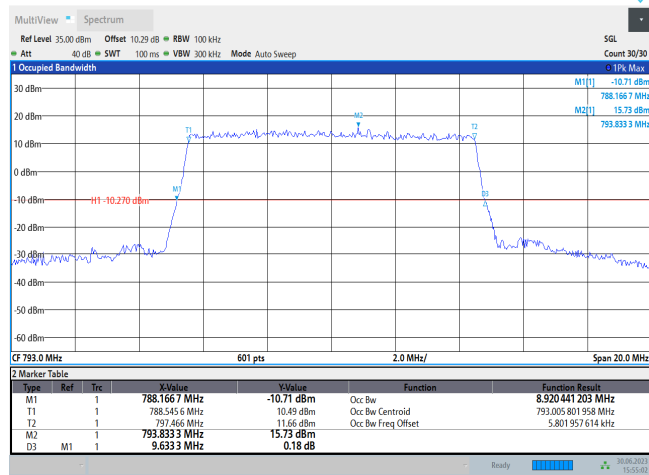
SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. | F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086 | t (86-29) 6282 7885 | www.sgs.com.cn
 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 | t (86-29) 6282 7885 | sgs.china@sgs.com

Band14-5MHz-64QAM-23355-25RB#0



15:52:37 30.06.2023

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

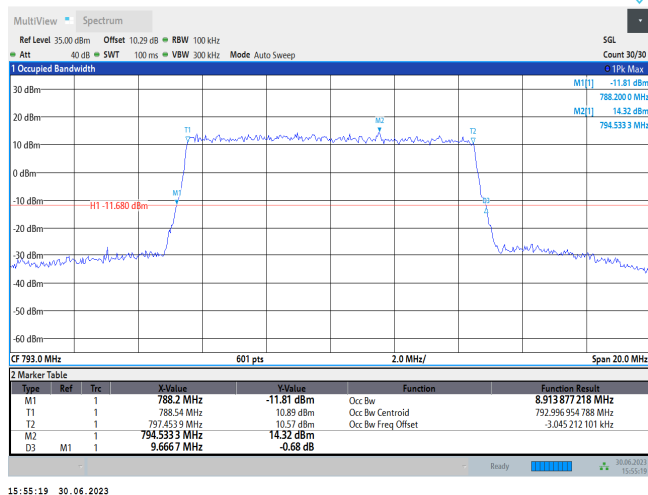


15:55:03 30.06.2023



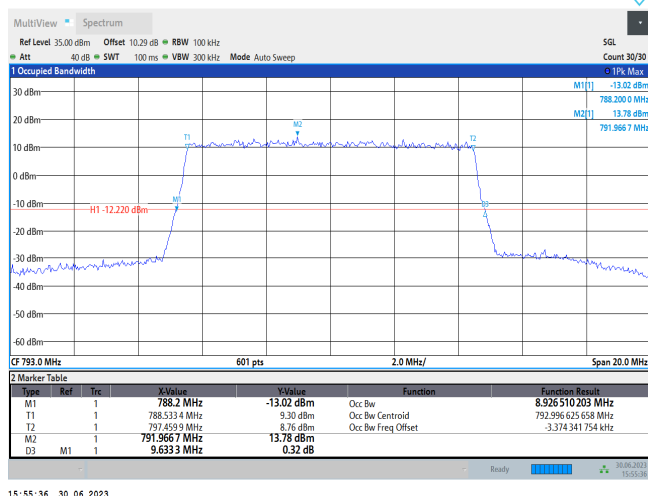
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Band14-10MHz-16QAM-23330-50RB#0



15:55:19 30.06.2023

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



15:55:36 30.06.2023

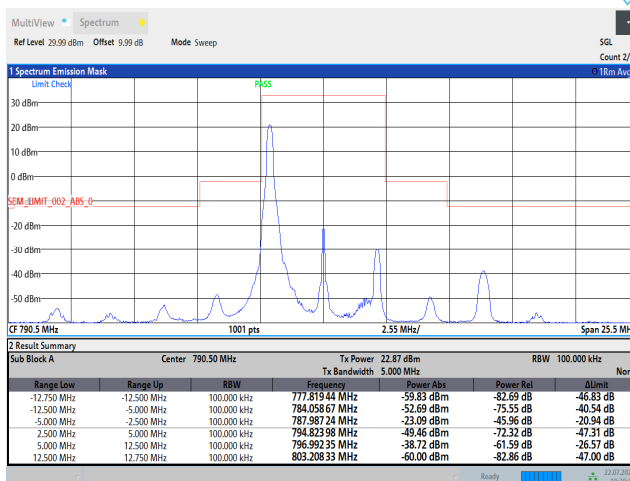


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Emission Mask

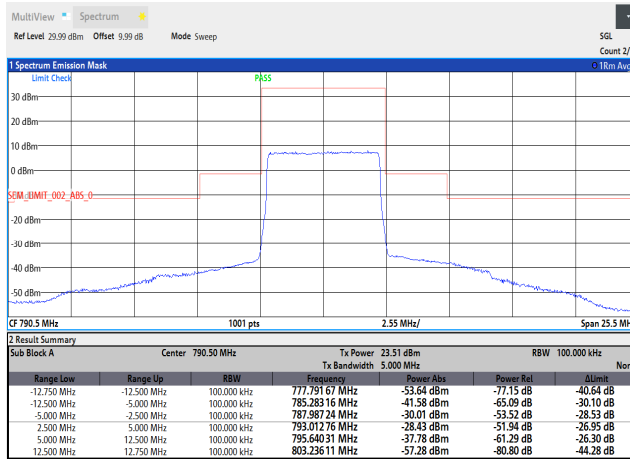
Test Graphs

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



10:30:49 22.07.2023

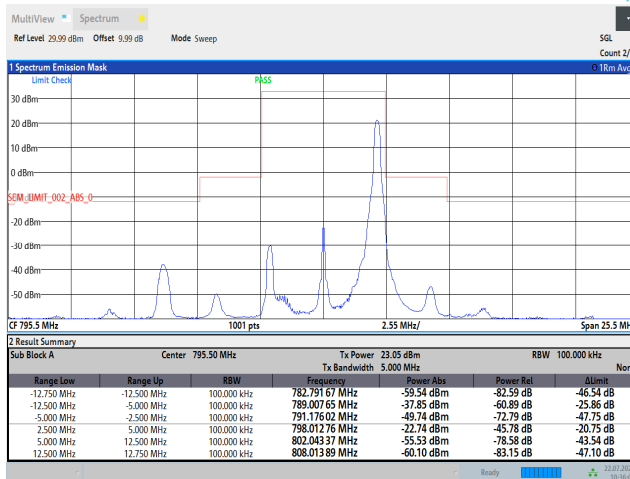
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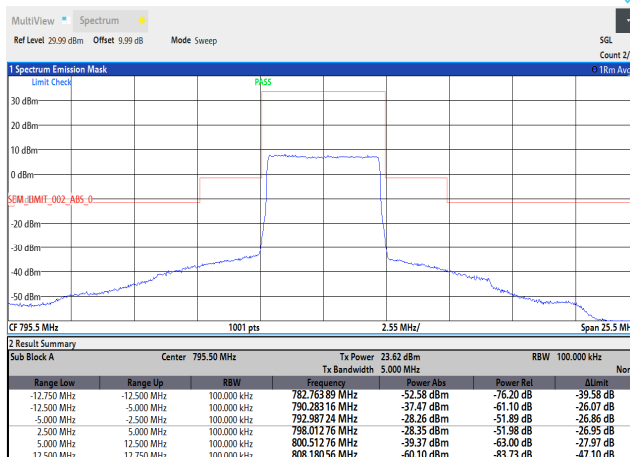


Band14-5MHz-QPSK-23355-1RB#24



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

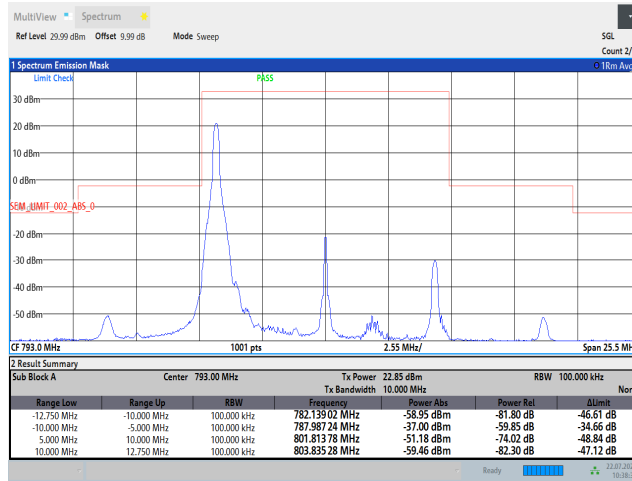


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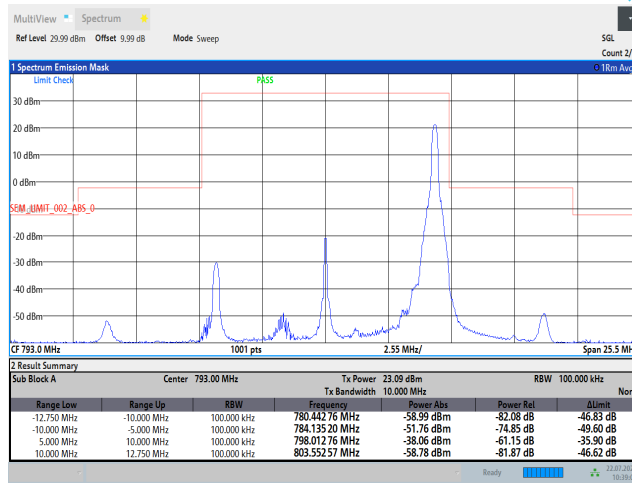
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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com

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



10:38:38 22.07.2023

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

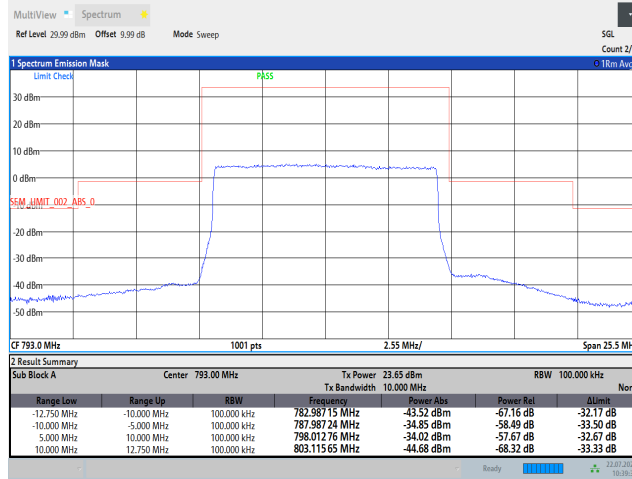


10:39:05 22.07.2023



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



10:39:32 22.07.2023

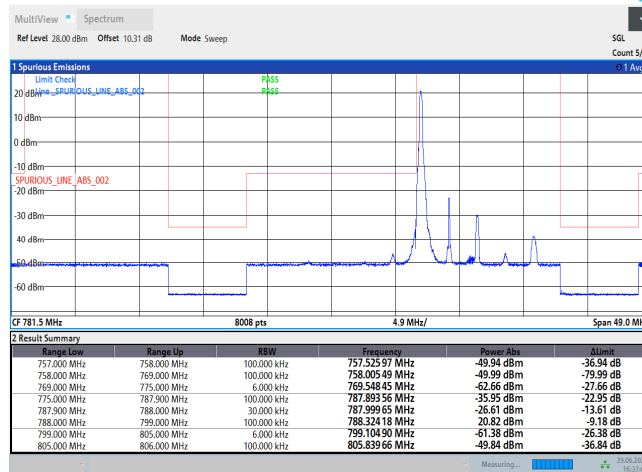


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Band Edge

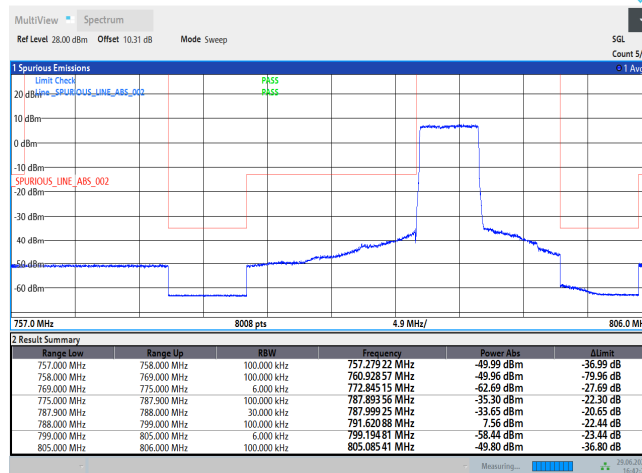
Test Graphs

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



16:37:04 29.06.2023

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



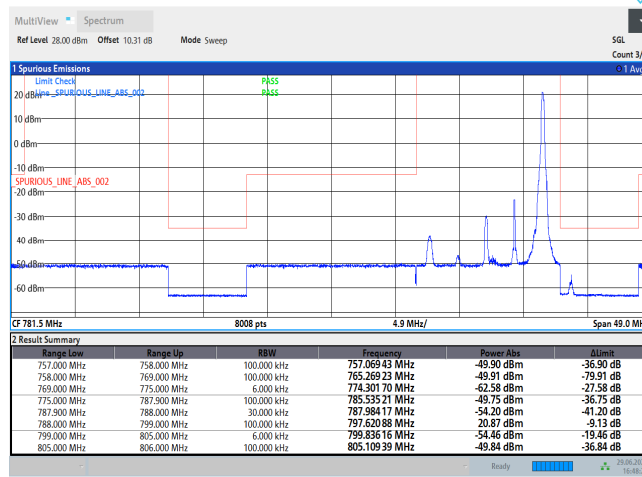
16:42:24 29.06.2023



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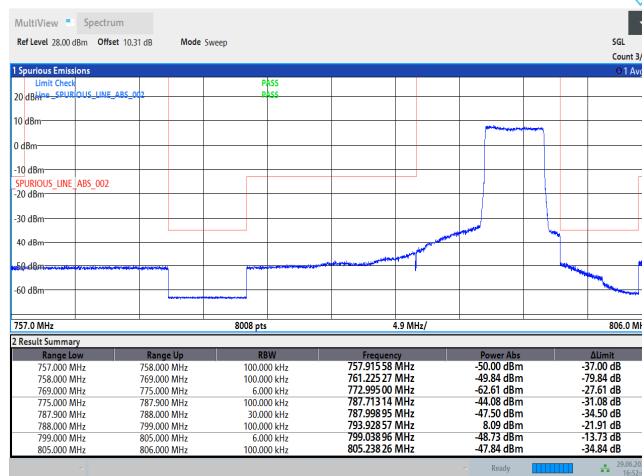
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Band14-5MHz-QPSK-23355-1RB#24



16:48:24 29.06.2023

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



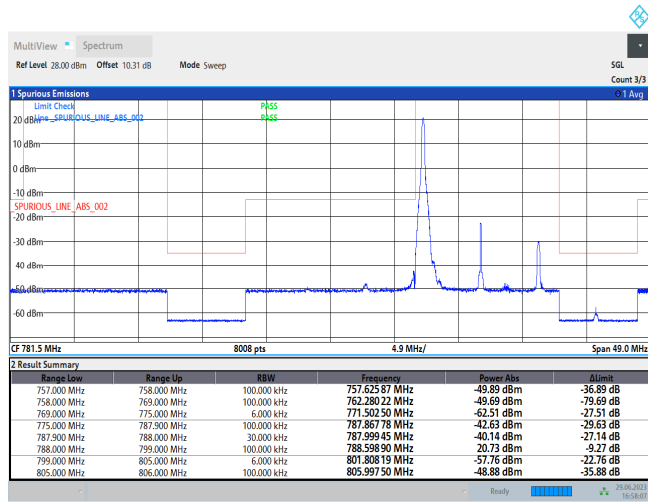
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Band14-10MHz-QPSK-23330-1RB#0



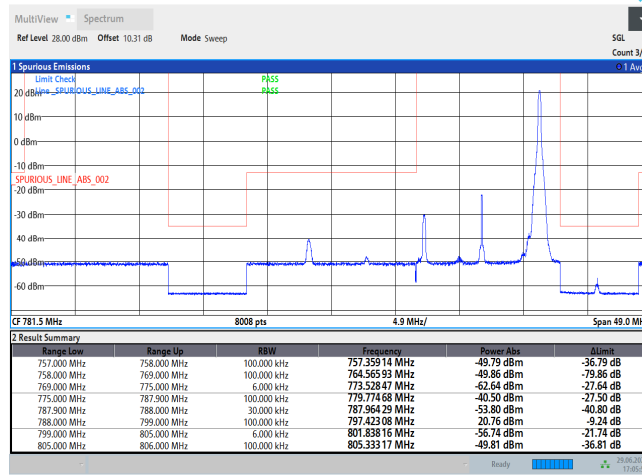
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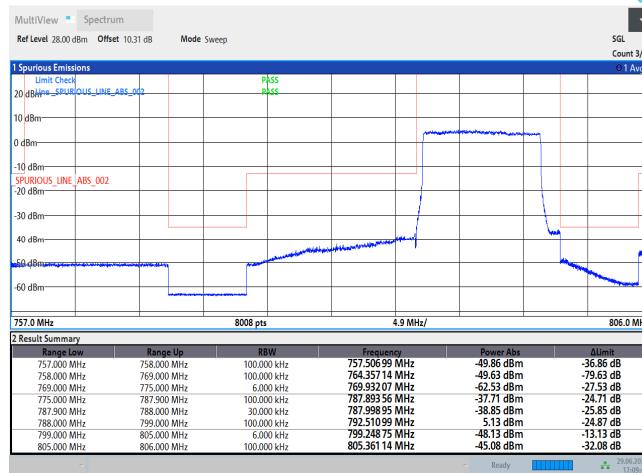
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Band14-10MHz-QPSK-23330-1RB#49



17:05:59 29.06.2023

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



17:09:46 29.06.2023



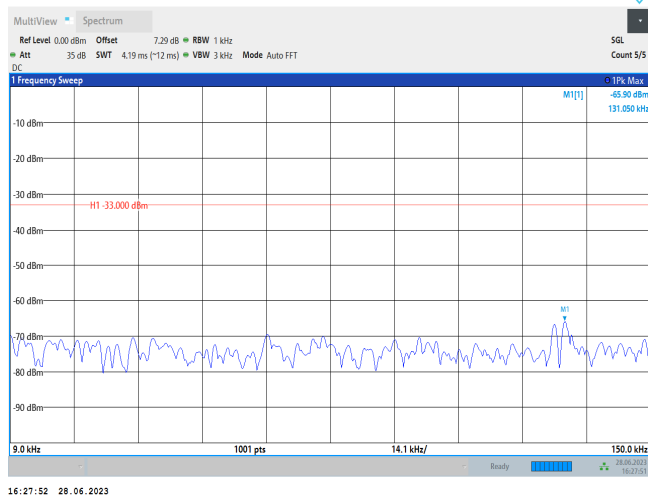
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Conducted Spurious Emission

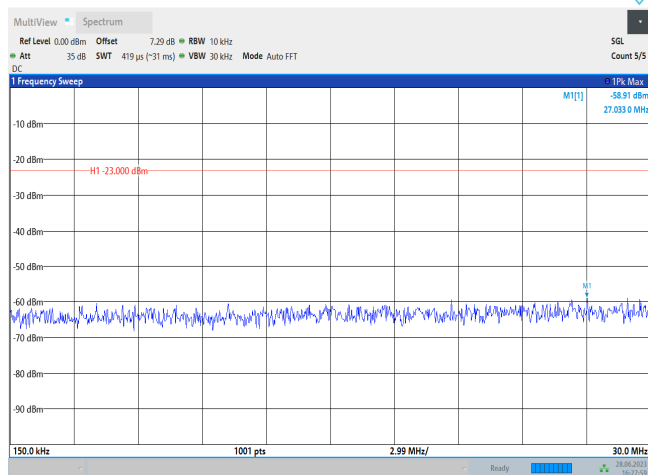
Test Graphs

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



16:27:52 28.06.2023

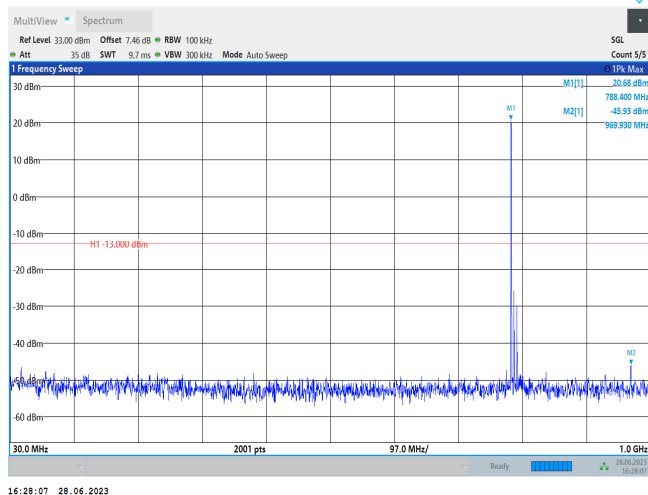
Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



16:27:59 28.06.2023

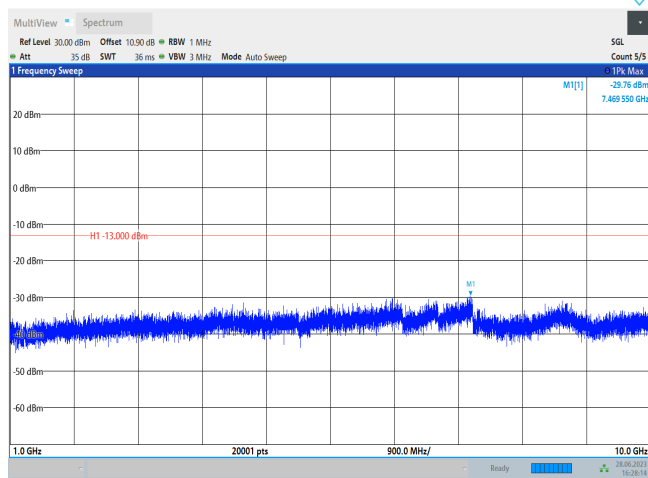


Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



16:28:07 28.06.2023

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



16:28:14 28.06.2023



Field Strength of Spurious Radiation

Test Band = LTE_14_TM1

Test Channel = LCH-5M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1078.8432	49.04	-47.47	24.22	-69.47	-13.00	56.47	333	311	Horizontal
2	1576.7431	53.19	-47.61	24.68	-65.00	-40.00	25.00	325	346	Horizontal
3	2375.255	48.27	-46.62	27.50	-66.11	-13.00	53.11	214	284	Horizontal
4	3904.5962	49.01	-44.39	29.72	-60.92	-13.00	47.92	189	109	Horizontal
5	6097.0839	46.69	-40.45	33.41	-55.61	-13.00	42.61	254	24	Horizontal
6	9943.8378	43.71	-35.46	38.64	-48.37	-13.00	35.37	149	15	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1124.925	48.95	-47.76	24.40	-69.67	-13.00	56.67	325	358	Vertical
2	1593.6637	48.45	-47.61	24.99	-69.43	-40.00	29.43	136	36	Vertical
3	3770.3108	48.81	-44.97	29.68	-61.74	-13.00	48.74	332	49	Vertical
4	5588.0235	47.46	-41.47	32.50	-56.77	-13.00	43.77	258	165	Vertical
5	7443.8978	45.45	-38.36	36.79	-51.38	-13.00	38.38	336	336	Vertical
6	9903.5161	43.48	-35.30	38.60	-48.48	-13.00	35.48	254	13	Vertical



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Test Band = LTE_14_TM1

Test Channel = MCH-5M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1026.2811	48.99	-46.86	24.29	-68.84	-13.00	55.84	199	95	Horizontal
2	1581.7833	53.08	-47.61	24.77	-65.02	-40.00	25.02	365	354	Horizontal
3	2372.7349	49.12	-46.62	27.51	-65.25	-13.00	52.25	254	37	Horizontal
4	3614.7846	48.91	-44.48	29.02	-61.81	-13.00	48.81	179	162	Horizontal
5	6083.4033	46.96	-40.49	33.43	-55.36	-13.00	42.36	366	140	Horizontal
6	9898.836	43.12	-35.29	38.59	-48.84	-13.00	35.84	321	360	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1074.883	49.45	-47.43	24.20	-69.04	-13.00	56.04	188	170	Vertical
2	1581.4233	49.67	-47.61	24.77	-68.43	-40.00	28.43	254	49	Vertical
3	2518.5407	51.18	-46.59	27.80	-62.87	-13.00	49.87	119	184	Vertical
4	3933.7574	48.56	-44.25	29.84	-61.11	-13.00	48.11	364	354	Vertical
5	6091.3237	46.60	-40.47	33.42	-55.71	-13.00	42.71	225	162	Vertical
6	9888.0355	43.85	-35.32	38.50	-48.23	-13.00	35.23	320	305	Vertical



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Test Band = LTE_14_TM1

Test Channel = HCH-5M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1160.9264	48.99	-47.82	24.52	-69.57	-13.00	56.57	227	154	Horizontal
2	1586.8235	52.18	-47.61	24.86	-65.83	-40.00	25.83	256	29	Horizontal
3	2193.0877	48.80	-47.00	26.84	-66.62	-13.00	53.62	334	356	Horizontal
4	3600.384	49.06	-44.48	28.90	-61.78	-13.00	48.78	145	33	Horizontal
5	6060.7224	47.19	-40.56	33.48	-55.15	-13.00	42.15	228	78	Horizontal
6	9882.6353	43.25	-35.33	38.46	-48.88	-13.00	35.88	263	96	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1586.4635	49.58	-47.61	24.86	-68.43	-40.00	28.43	214	206	Vertical
2	2164.2866	49.37	-46.96	26.61	-66.24	-13.00	53.24	365	183	Vertical
3	3085.5634	47.70	-45.87	28.87	-64.56	-13.00	51.56	221	322	Vertical
4	4303.1321	48.05	-42.90	29.53	-60.58	-13.00	47.58	291	251	Vertical
5	5983.3193	46.84	-40.82	32.97	-56.27	-13.00	43.27	243	287	Vertical
6	9912.8765	43.69	-35.34	38.61	-48.30	-13.00	35.30	331	44	Vertical



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Test Band = LTE_14_TM1
Test Channel = MCH-10M

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1123.4849	49.41	-47.76	24.39	-69.22	-13.00	56.22	179	323	Horizontal
2	1577.1031	52.03	-47.61	24.69	-66.15	-40.00	26.15	256	306	Horizontal
3	2505.2202	48.30	-46.66	27.80	-65.82	-13.00	52.82	334	176	Horizontal
4	3679.9472	48.84	-44.48	29.30	-61.60	-13.00	48.60	210	60	Horizontal
5	7434.8974	45.21	-38.36	36.77	-51.64	-13.00	38.64	216	19	Horizontal
6	9933.7574	43.42	-35.42	38.63	-48.63	-13.00	35.63	331	37	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1267.4907	49.04	-47.88	24.53	-69.57	-13.00	56.57	256	208	Vertical
2	1577.4631	48.70	-47.61	24.69	-69.48	-40.00	29.48	332	100	Vertical
3	2981.8793	47.43	-45.73	28.49	-65.07	-13.00	52.07	148	118	Vertical
4	3976.239	48.36	-44.06	29.85	-61.11	-13.00	48.11	263	354	Vertical
5	7459.3784	45.48	-38.37	36.82	-51.33	-13.00	38.33	254	185	Vertical
6	9960.0384	43.38	-35.52	38.66	-48.74	-13.00	35.74	159	257	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	-7.34	-0.009256	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-6.72	-0.008474	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-6.09	-0.007680	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-4.69	-0.005914	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-3.95	-0.004981	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-7.67	-0.009672	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-7.07	-0.008916	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-4.42	-0.005574	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-7.85	-0.009899	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-3.95	-0.004981	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-4.96	-0.006255	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-3.89	-0.004905	PASS

---End of Attachment---



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