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Appendix B.9

LTE Band 17



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Wireless Laboratory

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

t (86-29) 6282 7885 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com

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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
Band17	5MHz	QPSK	23755	1RB#0	24.28	25.13	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.25	25.1	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.2	25.05	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	24.29	25.14	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.23	25.08	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.34	25.19	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.21	25.06	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	24.36	25.21	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.23	25.08	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.2	25.05	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.37	25.22	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	24.31	25.16	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.38	24.23	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.52	24.37	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.33	24.18	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.21	23.06	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.46	24.31	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.47	24.32	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.35	24.2	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.26	23.11	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.29	24.14	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.36	24.21	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.32	24.17	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.18	23.03	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.35	23.2	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.39	23.24	34.77	PASS



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V/F Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
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

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Band17	5MHz	64QAM	23755	1RB#24	22.24	23.09	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	21.21	22.06	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.34	23.19	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.35	23.2	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.29	23.14	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.27	22.12	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.31	23.16	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.26	23.11	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.19	23.04	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.24	22.09	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.28	25.13	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.25	25.1	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.37	25.22	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	24.23	25.08	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.28	25.13	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.34	25.19	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.2	25.05	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	24.37	25.22	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.29	25.14	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.28	25.13	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.2	25.05	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	24.36	25.21	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.39	24.24	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.45	24.3	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.34	24.19	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.27	23.12	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.41	24.26	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.43	24.28	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.27	24.12	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.27	23.12	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.44	24.29	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.31	24.16	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.23	24.08	34.77	PASS



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Wireless Laboratory

V/F, Unit D, Building 1, Kanghong Orange Science Park, No. 137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
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

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Band17	10MHz	16QAM	23800	50RB#0	22.2	23.05	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.39	23.24	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.37	23.22	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.22	23.07	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.27	22.12	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.39	23.24	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.41	23.26	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.32	23.17	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.31	22.16	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.41	23.26	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.4	23.25	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.26	23.11	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.25	22.1	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
Band17	10MHz	QPSK	23780	50RB#0	4.98	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.04	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.04	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.84	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.82	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.80	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.34	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.30	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.28	13	PASS

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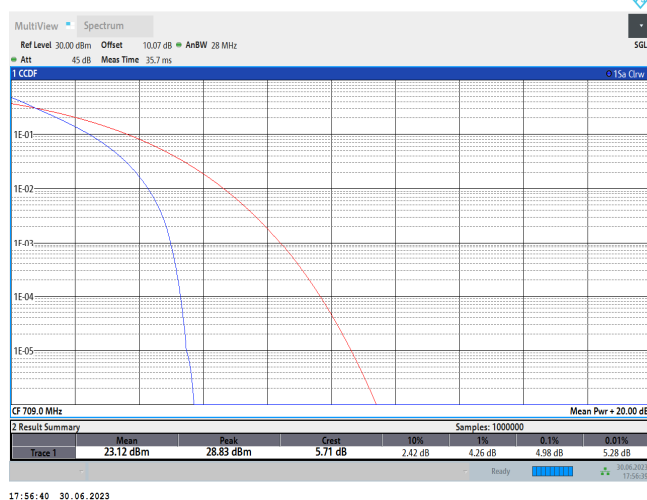
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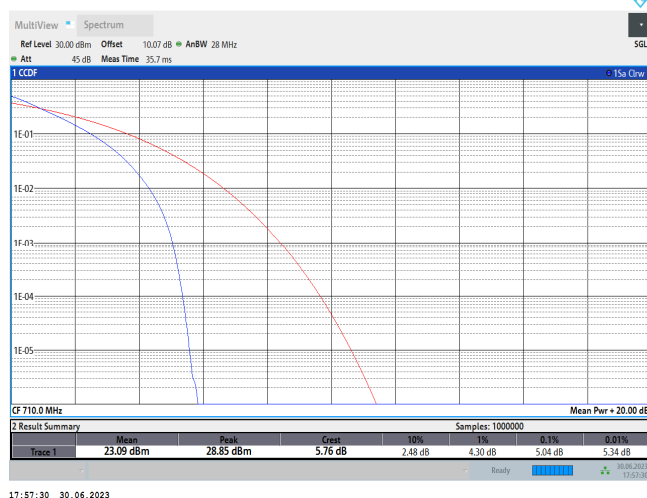
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Test Graphs

Band17-10MHz-QPSK-23780-50RB#0



Band17-10MHz-QPSK-23790-50RB#0



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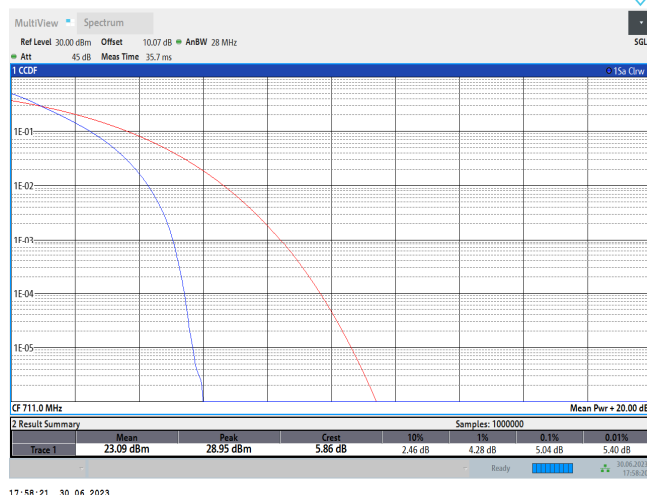
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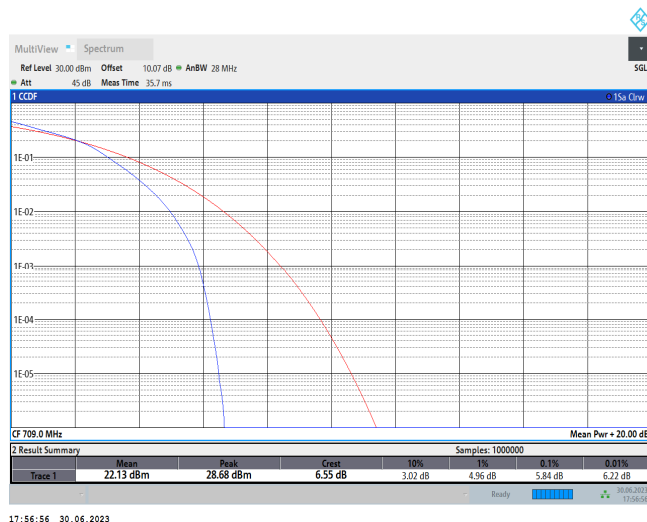
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Band17-10MHz-QPSK-23800-50RB#0



Band17-10MHz-16QAM-23780-50RB#0



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Wireless Laboratory

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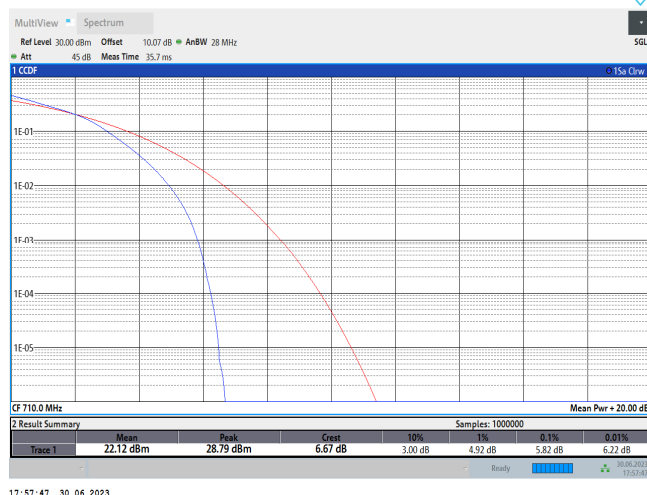
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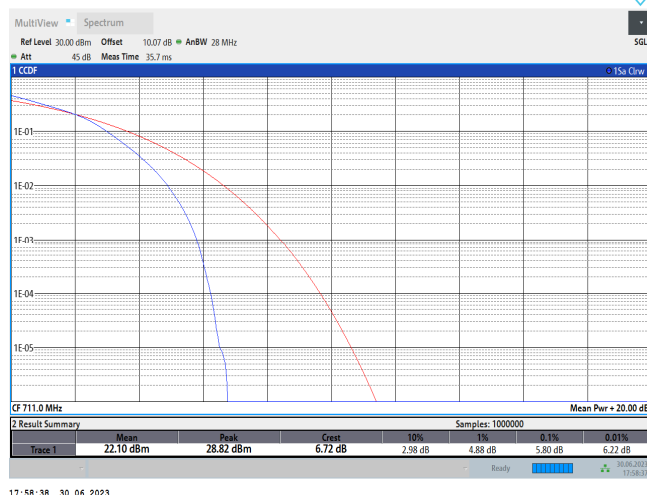
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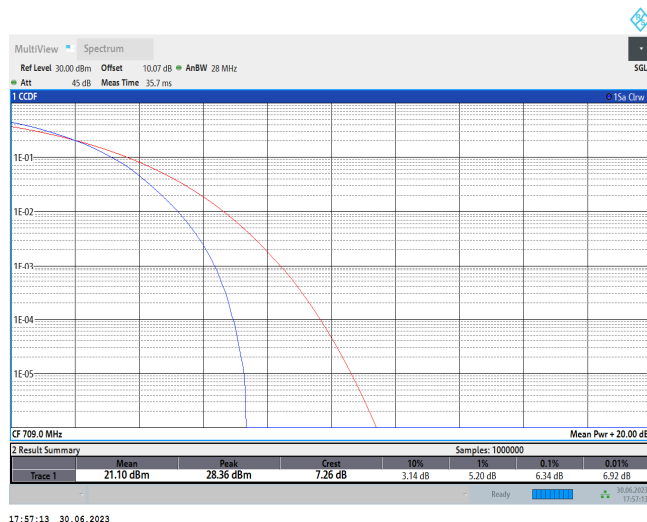
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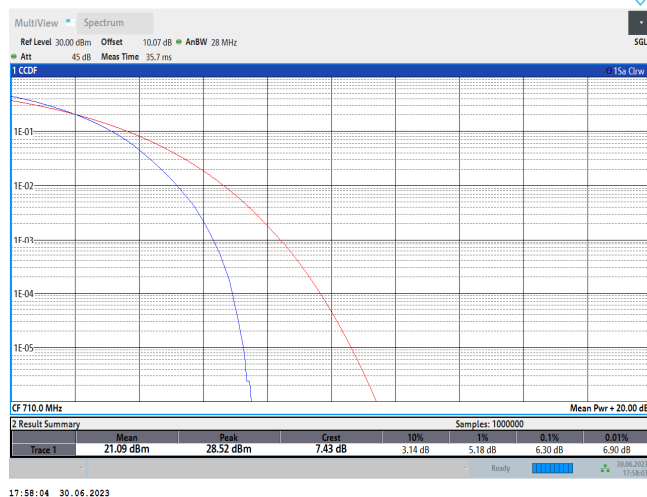
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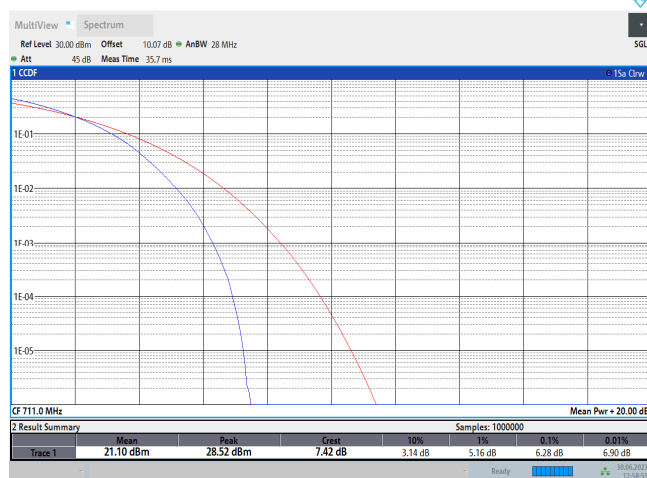
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Band17-10MHz-64QAM-23790-50RB#0



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Band17-10MHz-64QAM-23800-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23800	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23800	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23800	50RB#0	PASS	PASS



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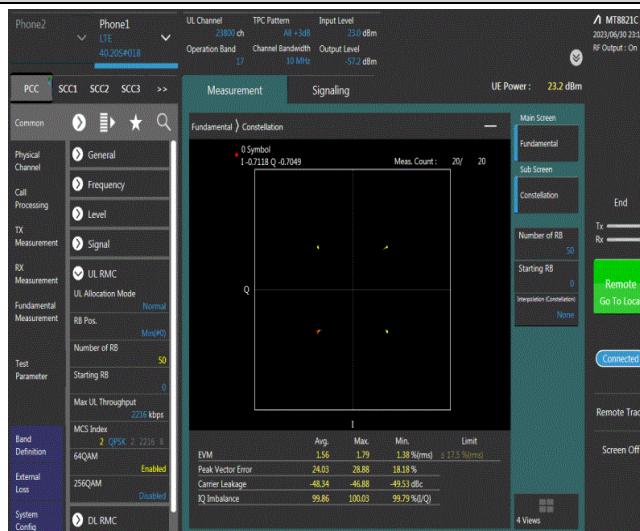
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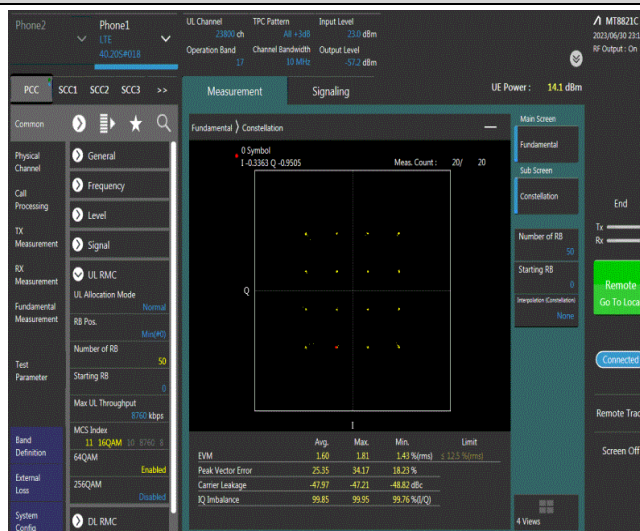
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Test Graphs

Band17-10MHz-QPSK-23800-50RB#0

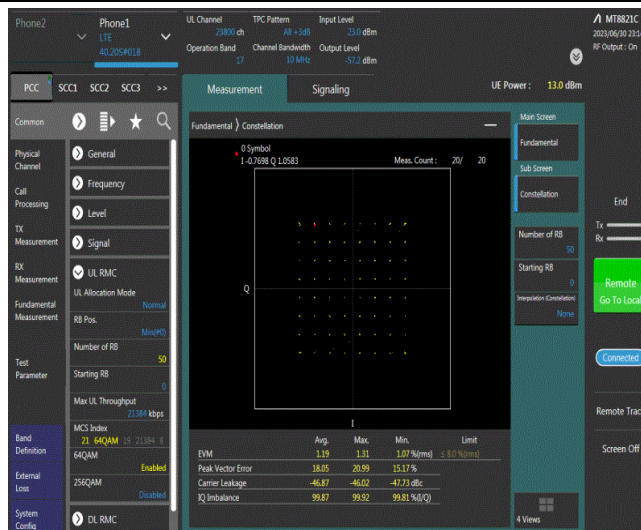


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.474	4.88	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.472	4.89	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.47	4.88	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.472	4.91	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.472	4.92	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.462	4.92	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.487	4.91	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.479	4.89	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.481	4.90	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.936	9.70	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.924	9.67	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.913	9.67	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.933	9.70	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.912	9.63	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.902	9.60	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.94	9.67	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.934	9.60	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.926	9.63	PASS



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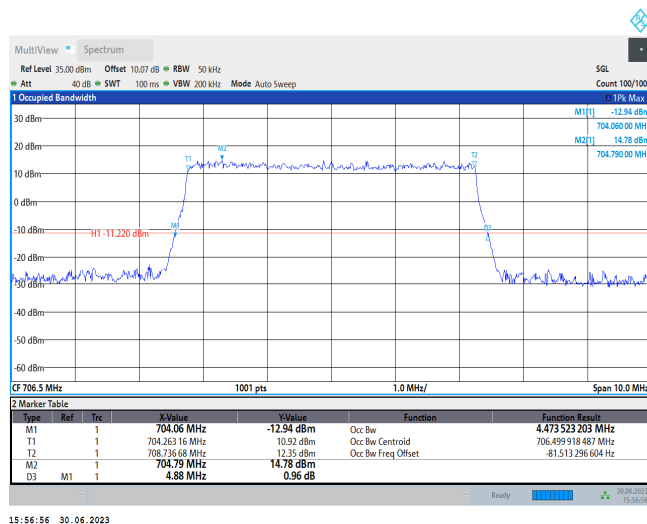
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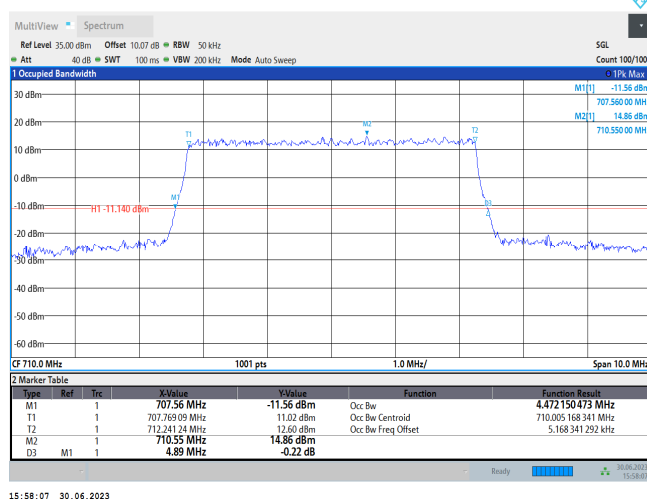
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Test Graphs

Band17-5MHz-QPSK-23755-25RB#0



Band17-5MHz-QPSK-23790-25RB#0

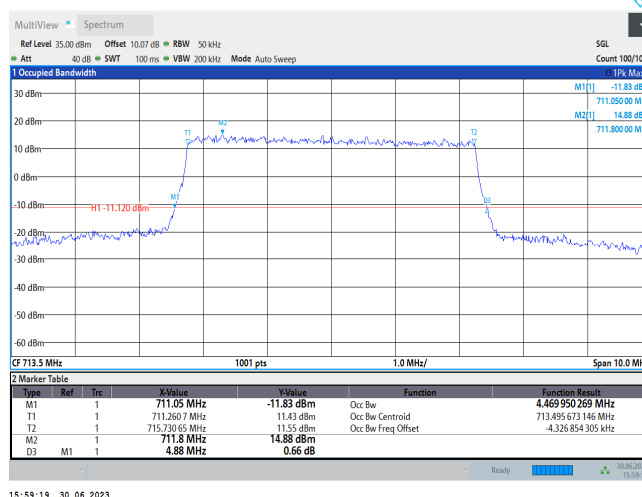


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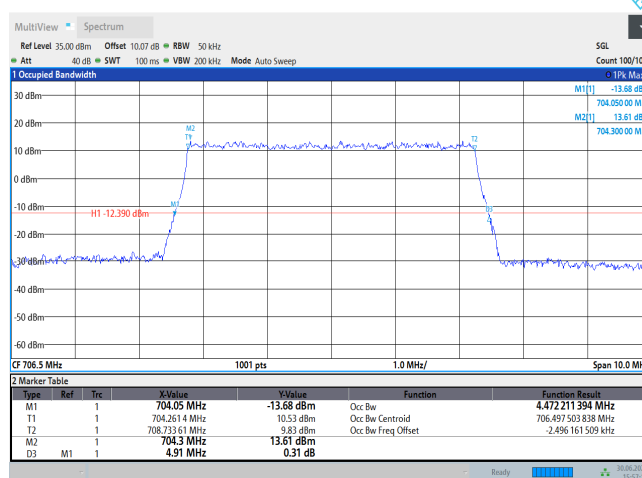
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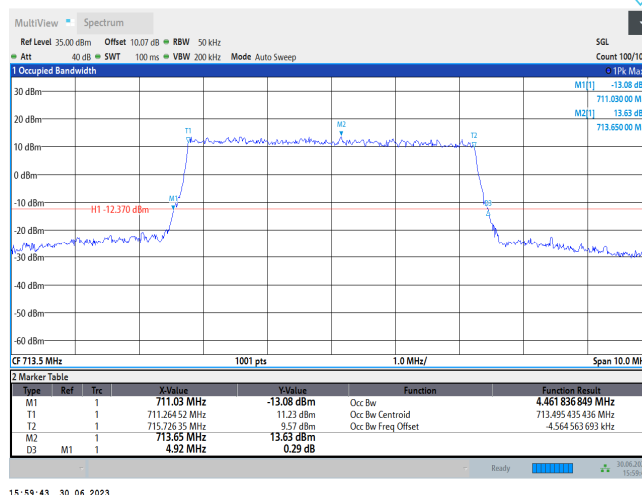
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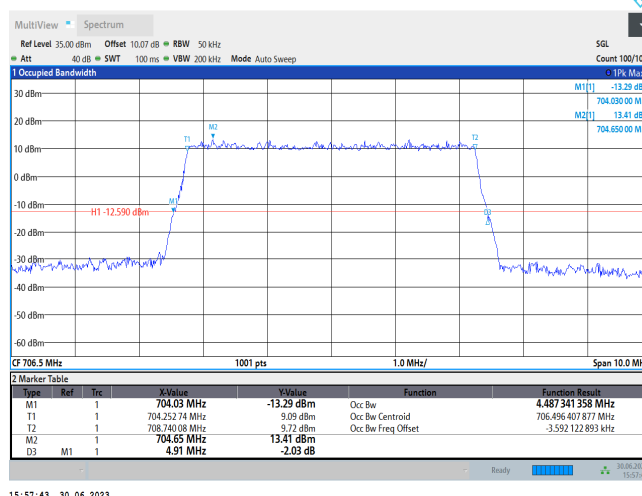
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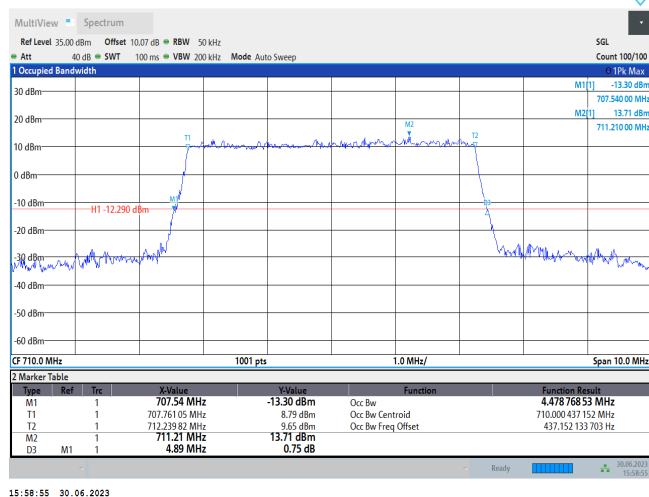
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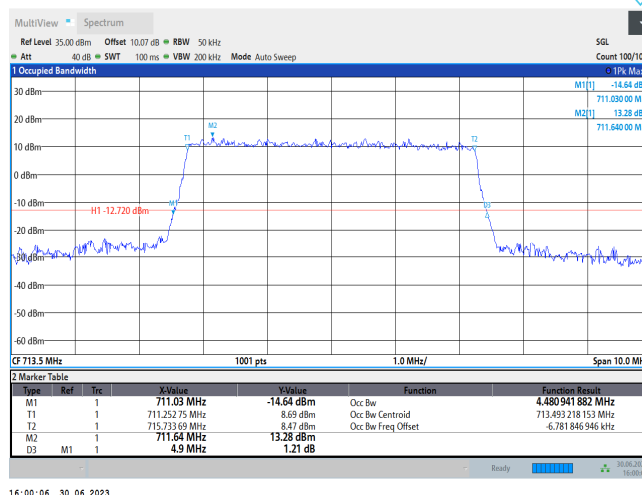
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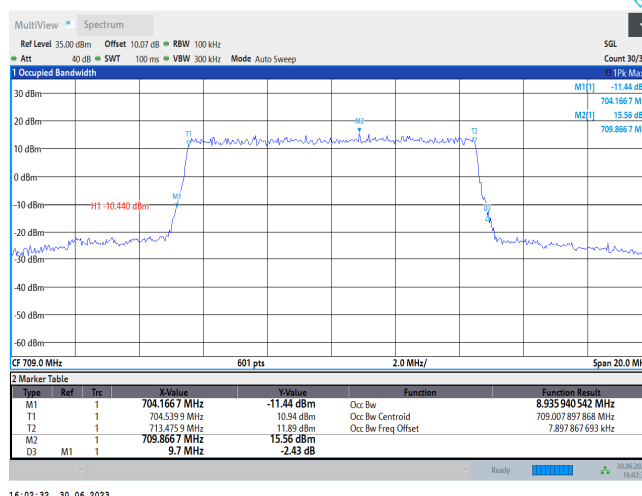
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Band17-10MHz-QPSK-23780-50RB#0



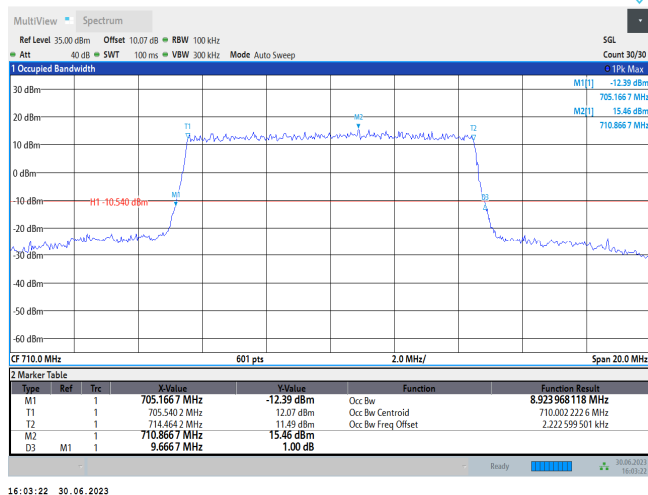


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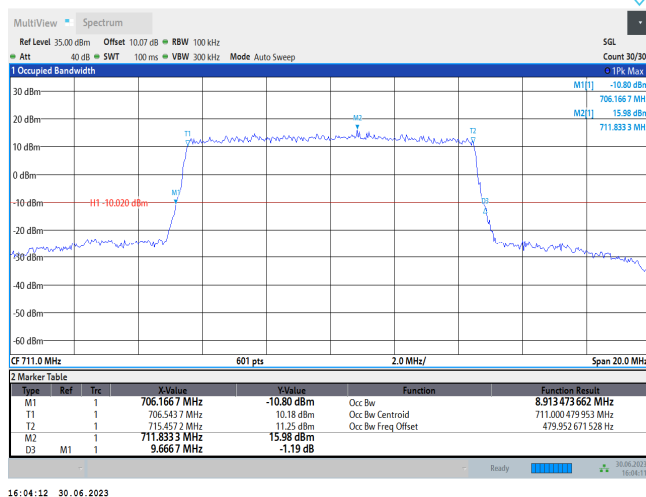
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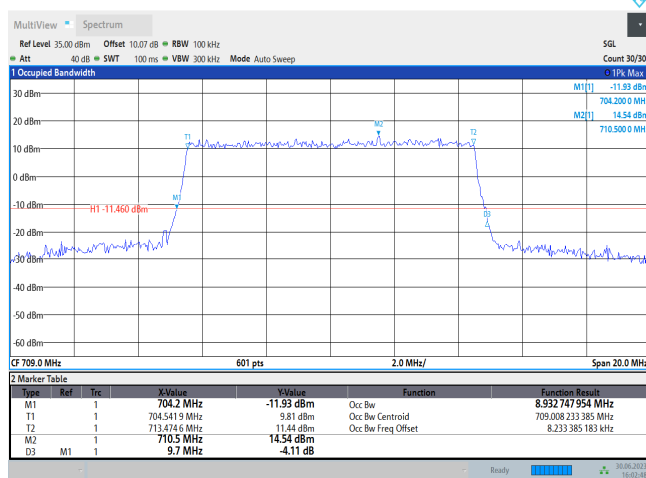
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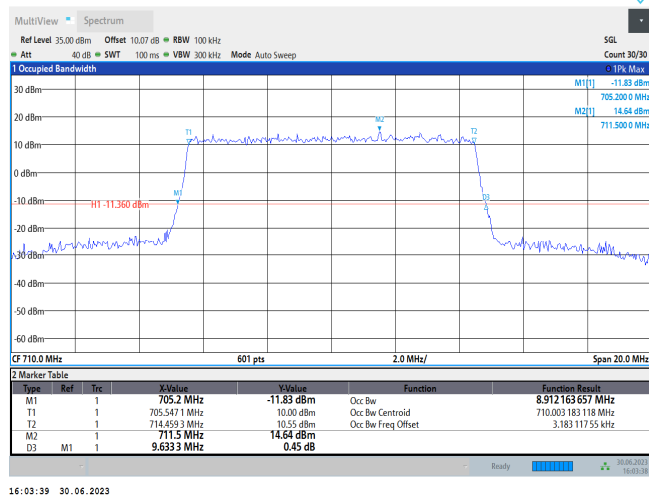


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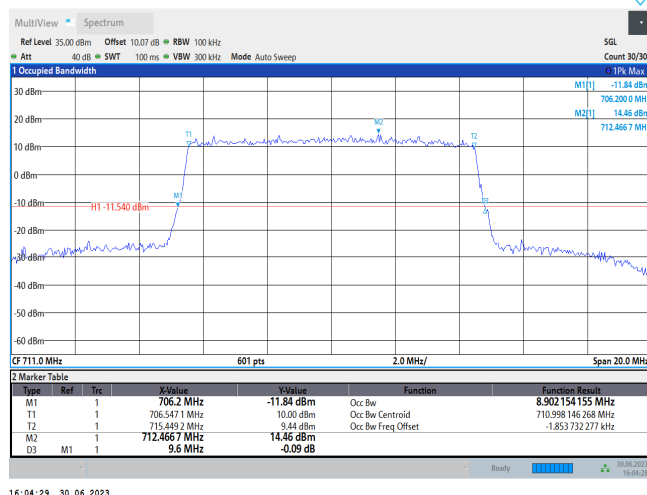
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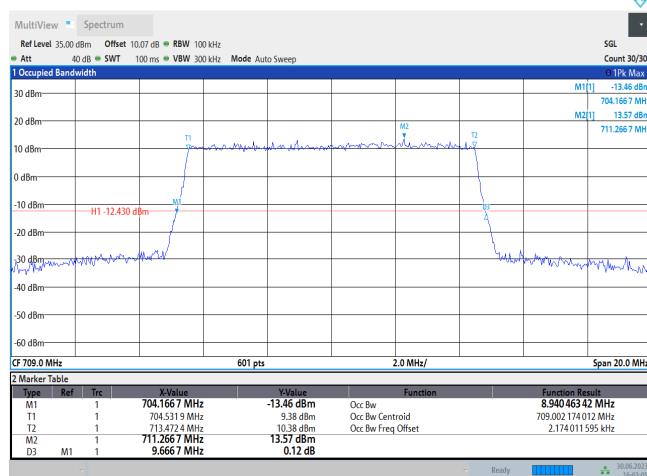
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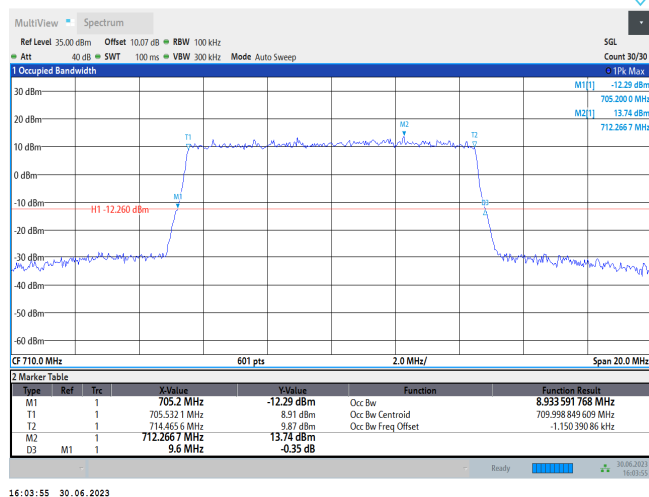
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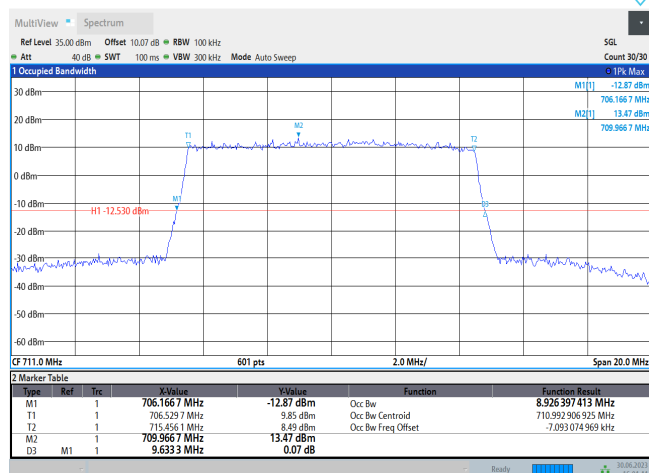
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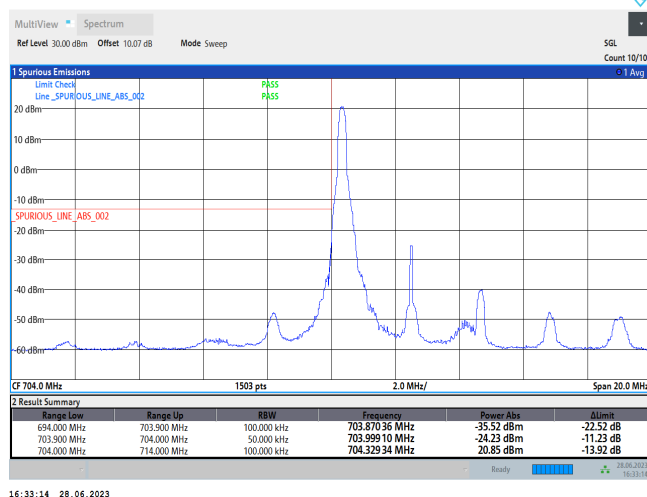
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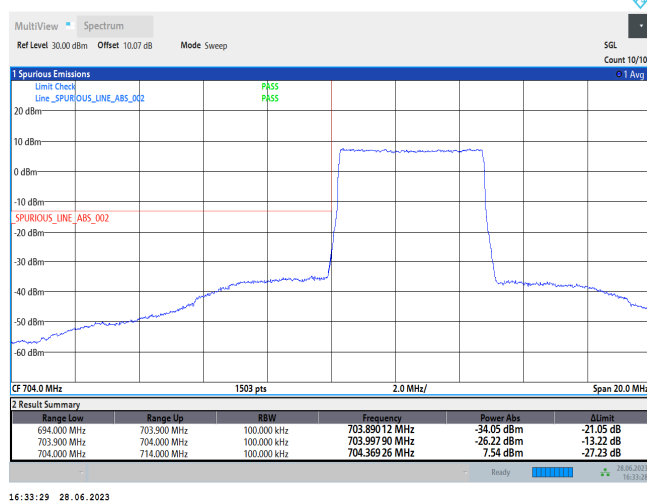
Band Edge

Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



Band17-5MHz-QPSK-23755-25RB#0



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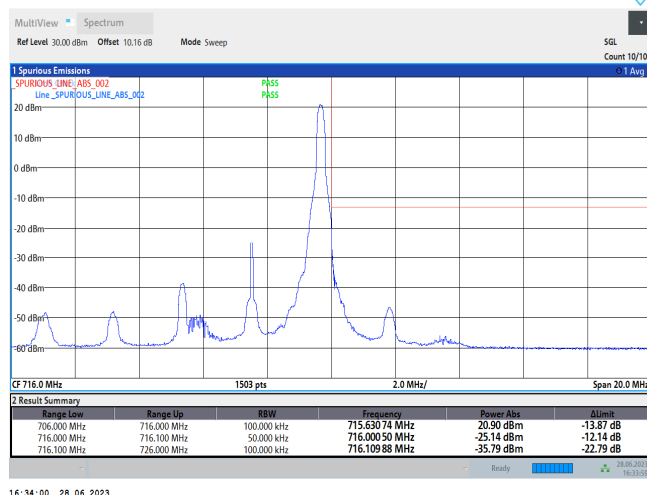
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Band17-5MHz-QPSK-23825-1RB#24



Band17-5MHz-QPSK-23825-25RB#0



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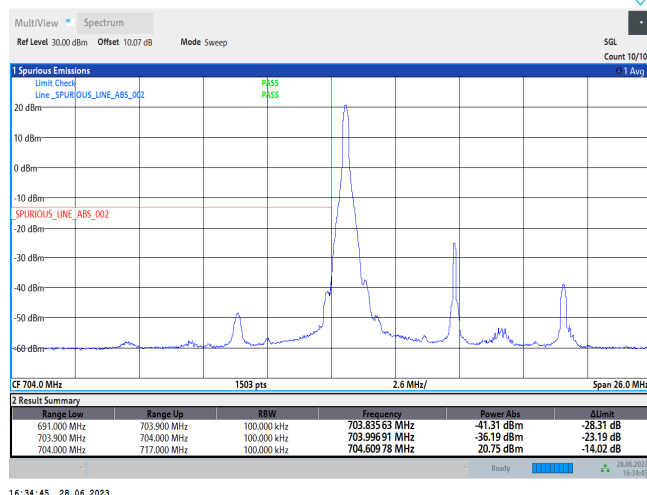
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Band17-10MHz-QPSK-23780-1RB#0



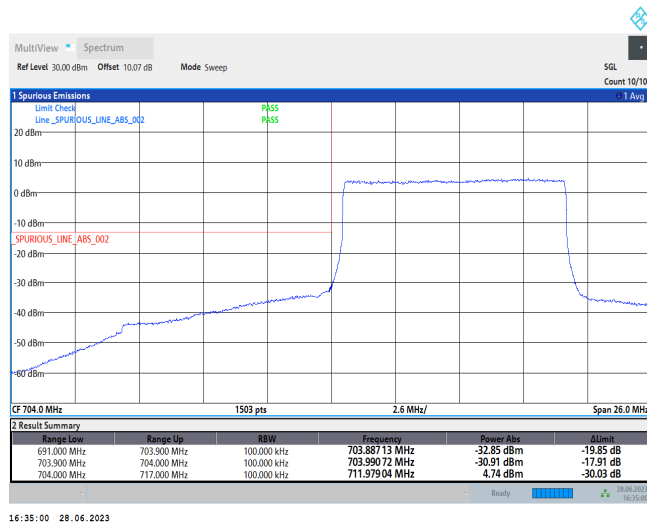
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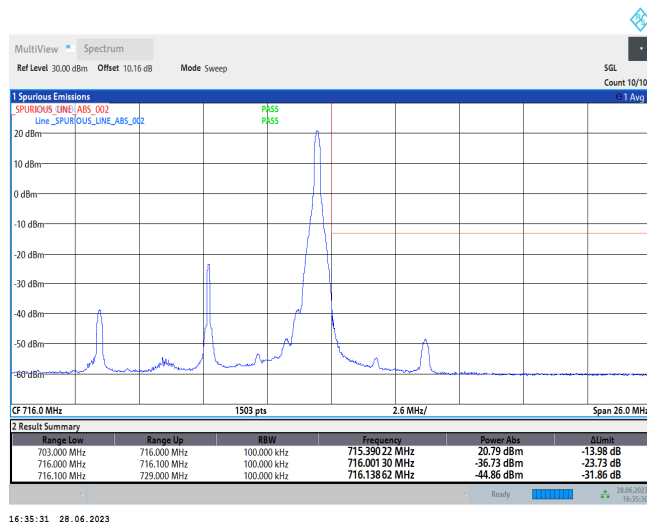
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Band17-10MHz-QPSK-23780-50RB#0



Band17-10MHz-QPSK-23800-1RB#49



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Band17-10MHz-QPSK-23800-50RB#0



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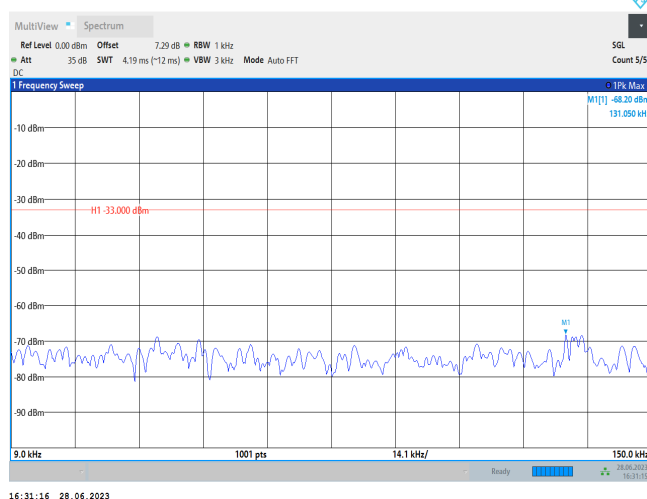
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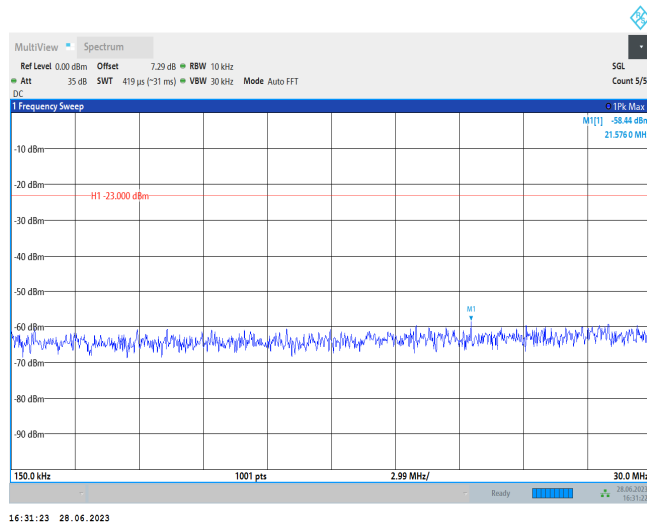
Conducted Spurious Emission

Test Graphs

Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



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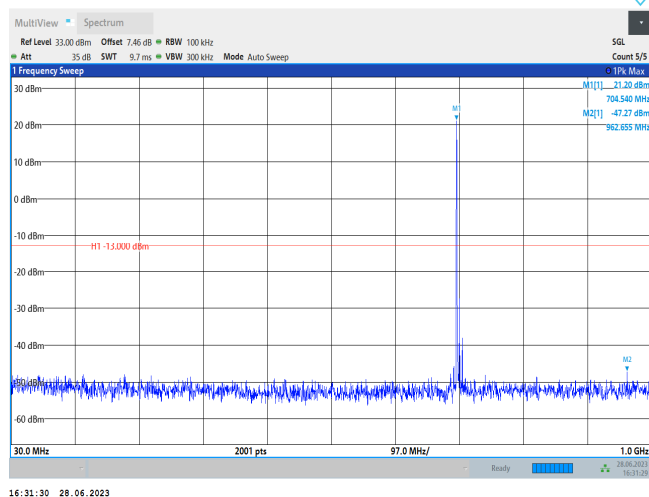
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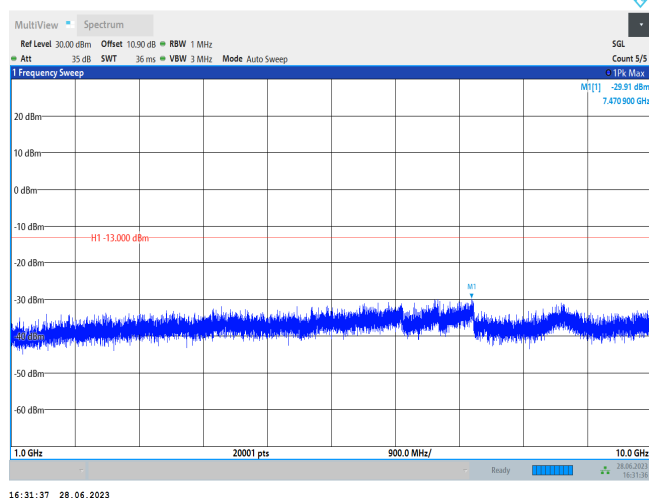
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



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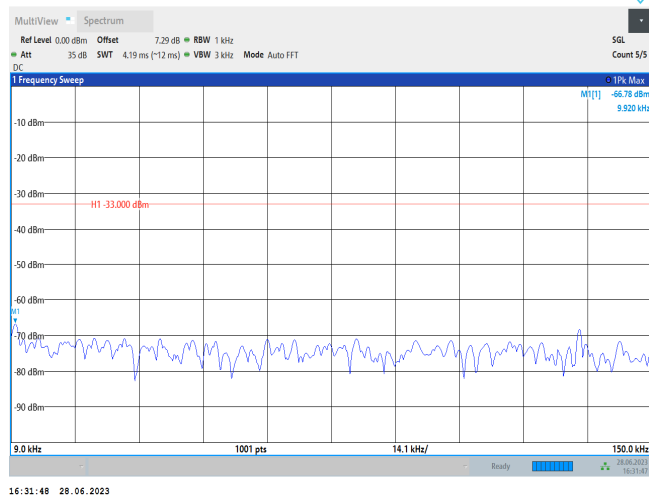


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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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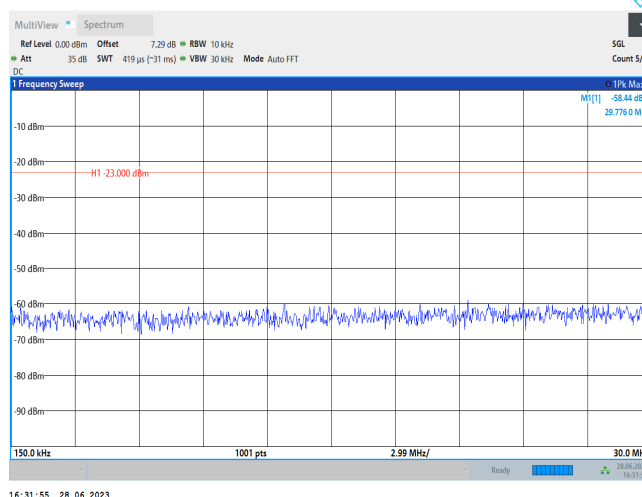


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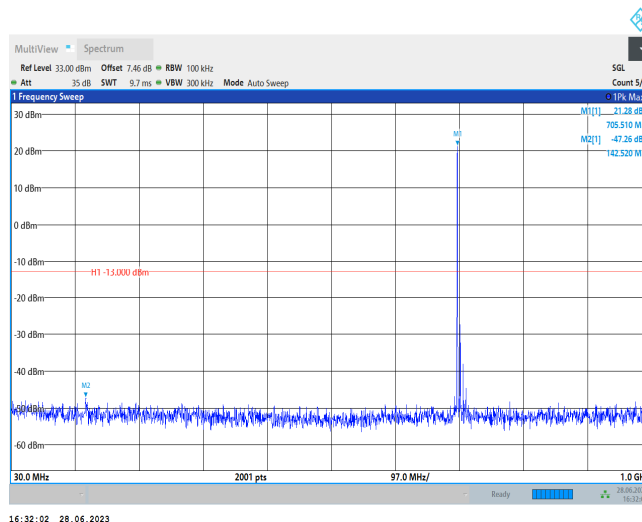
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Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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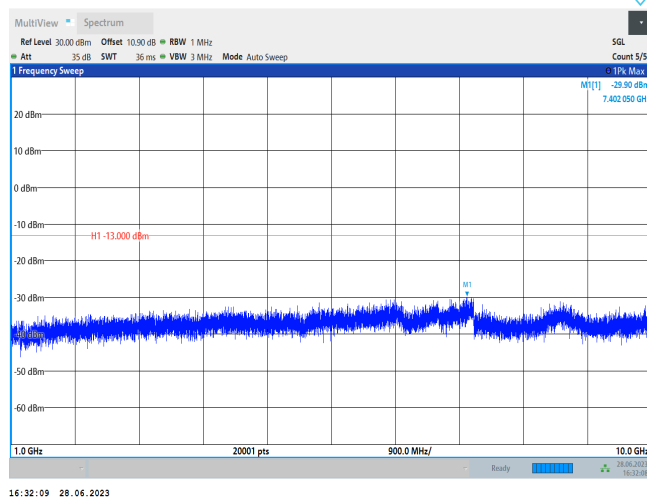


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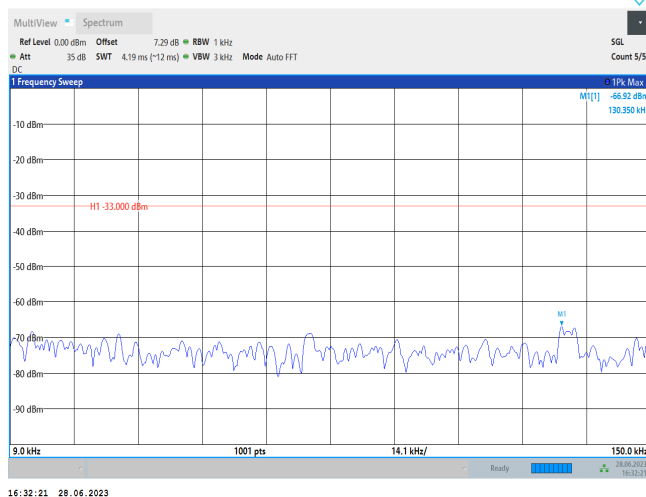
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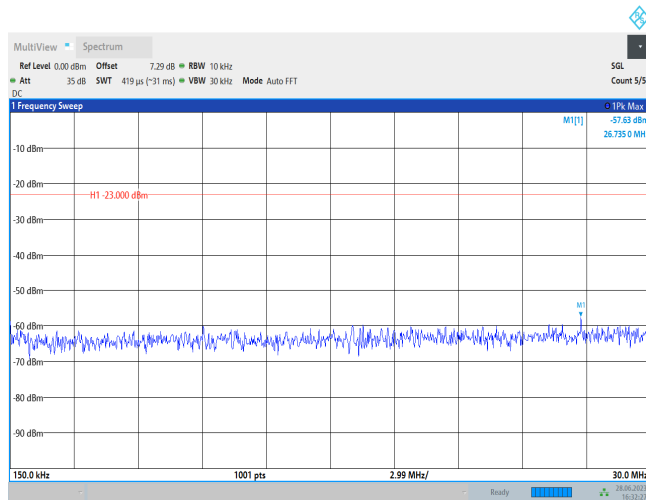
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



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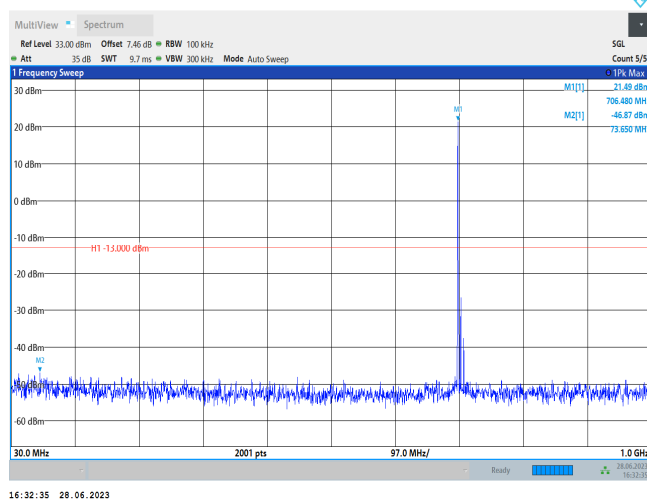
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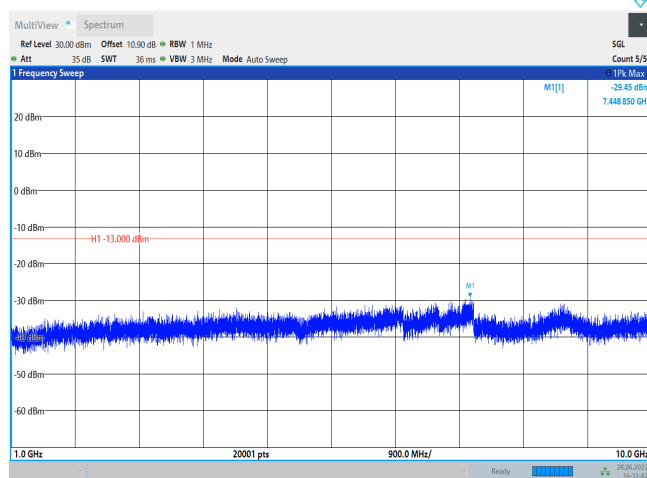
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_17_TM1_10MHz

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1354.6142	48.32	-47.61	25.08	-69.47	-13.00	56.47	136	318	Horizontal
2	1820.8328	48.09	-47.28	25.48	-68.97	-13.00	55.97	225	215	Horizontal
3	2940.4776	47.43	-45.85	28.26	-65.42	-13.00	52.42	364	139	Horizontal
4	4352.8141	47.61	-43.09	29.91	-60.83	-13.00	47.83	228	125	Horizontal
5	6632.7853	45.35	-40.08	34.87	-55.12	-13.00	42.12	235	215	Horizontal
6	9519.0208	44.13	-35.81	37.80	-49.14	-13.00	36.14	117	1	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	1345.9738	48.31	-47.65	25.06	-69.54	-13.00	56.54	367	56	Vertical
2	2189.1276	47.91	-46.99	26.81	-67.53	-13.00	54.53	364	275	Vertical
3	3196.4479	47.33	-45.32	28.42	-64.83	-13.00	51.83	227	64	Vertical
4	4778.7111	47.48	-42.90	30.67	-60.01	-13.00	47.01	304	325	Vertical
5	7034.2014	45.39	-39.38	36.01	-53.24	-13.00	40.24	226	38	Vertical
6	9470.7788	44.20	-35.71	37.62	-49.15	-13.00	36.15	366	244	Vertical



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

V/F Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
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 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com

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Test Band = LTE_17_TM1_10MHz
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1028.4411	48.62	-46.89	24.27	-69.26	-13.00	56.26	212	0	Horizontal
2	1646.2258	48.19	-47.53	25.47	-69.13	-13.00	56.13	224	0	Horizontal
3	2624.745	47.52	-46.17	27.90	-66.01	-13.00	53.01	150	336	Horizontal
4	3903.8762	48.27	-44.39	29.72	-61.66	-13.00	48.66	355	269	Horizontal
5	6077.2831	46.16	-40.51	33.45	-56.16	-13.00	43.16	201	139	Horizontal
6	9486.2594	44.06	-35.75	37.72	-49.23	-13.00	36.23	115	211	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	1028.8012	48.43	-46.89	24.27	-69.45	-13.00	56.45	348	235	Vertical
2	1411.1364	49.76	-47.42	24.99	-67.93	-13.00	54.93	228	42	Vertical
3	2571.4629	47.42	-46.32	27.84	-66.32	-13.00	53.32	187	15	Vertical
4	3637.4655	48.37	-44.48	29.20	-62.17	-13.00	49.17	115	118	Vertical
5	5144.8458	47.79	-42.59	31.77	-58.29	-13.00	45.29	334	33	Vertical
6	9511.4605	43.90	-35.80	37.80	-49.36	-13.00	36.36	374	168	Vertical



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V/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
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 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com

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Test Band = LTE_17_TM1_10MHz
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1183.6073	48.56	-47.86	24.57	-69.99	-13.00	56.99	229	286	Horizontal
2	2003.0001	48.44	-46.93	26.49	-67.26	-13.00	54.26	321	22	Horizontal
3	2845.7938	47.39	-46.03	28.30	-65.60	-13.00	52.60	147	98	Horizontal
4	3905.3162	48.29	-44.39	29.72	-61.64	-13.00	48.64	123	183	Horizontal
5	5718.3487	47.10	-41.30	32.50	-56.96	-13.00	43.96	331	143	Horizontal
6	9431.1772	43.28	-35.59	37.42	-50.15	-13.00	37.15	159	80	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	1413.2965	49.03	-47.42	25.01	-68.64	-13.00	55.64	287	15	Vertical
2	2070.3228	47.97	-46.89	26.50	-67.68	-13.00	54.68	114	101	Vertical
3	3897.7559	48.34	-44.43	29.70	-61.65	-13.00	48.65	259	258	Vertical
4	5386.7755	46.75	-41.90	32.42	-57.99	-13.00	44.99	332	181	Vertical
5	7842.0737	44.83	-37.73	36.77	-51.39	-13.00	38.39	201	83	Vertical
6	9514.7006	43.81	-35.80	37.80	-49.45	-13.00	36.45	113	212	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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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 www.sgsgroup.com.cn
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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	7.77	0.010944	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	3.89	0.005479	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	7.27	0.010239	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	4.86	0.006845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	5.99	0.008437	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	4.46	0.006282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	9.21	0.012972	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	7.91	0.011141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	1.24	0.001746	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-2.68	-0.003775	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	2.96	0.004169	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	2.25	0.003169	PASS

---End of Attachment---



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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 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com