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Appendix B.9

LTE Band 17



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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
Band17	5MHz	QPSK	23755	1RB#0	23.46	17.21	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.61	17.36	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.55	17.30	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.46	16.21	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.53	17.28	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.56	17.31	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.51	17.26	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.41	16.16	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.48	17.23	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.47	17.22	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.45	17.20	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.37	16.12	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.76	16.51	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.75	16.50	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.80	16.55	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.51	15.26	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.74	16.49	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.71	16.46	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.61	16.36	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.44	15.19	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.72	16.47	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.51	16.26	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.65	16.40	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.33	15.08	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.61	15.36	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.62	15.37	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.65	15.40	34.77	PASS



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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.sgs.com.cn
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Band17	5MHz	64QAM	23755	25RB#0	20.41	14.16	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.63	15.38	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.66	15.41	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.62	15.37	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.38	14.13	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.59	15.34	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.45	15.20	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.48	15.23	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.36	14.11	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.45	17.20	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.57	17.32	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.44	17.19	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.46	16.21	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.54	17.29	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.59	17.34	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.43	17.18	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.47	16.22	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.56	17.31	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.50	17.25	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.43	17.18	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.40	16.15	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.70	16.45	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.83	16.58	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.69	16.44	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.45	15.20	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.80	16.55	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.78	16.53	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.65	16.40	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.44	15.19	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.79	16.54	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.66	16.41	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.51	16.26	34.77	PASS



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Band17	10MHz	16QAM	23800	50RB#0	21.36	15.11	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.54	15.29	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.70	15.45	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.51	15.26	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.42	14.17	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.59	15.34	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.64	15.39	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.53	15.28	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.39	14.14	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.64	15.39	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.51	15.26	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.53	15.28	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.34	14.09	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	5.40	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.36	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.36	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.18	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.14	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.16	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.64	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.60	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.60	13	PASS



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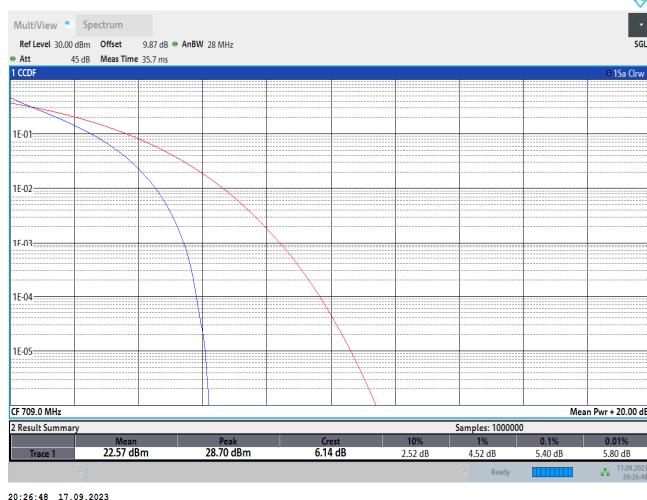
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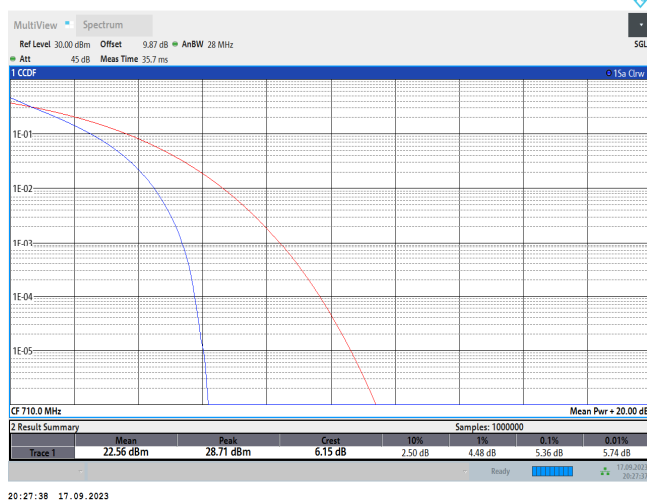
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Test Graphs

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



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

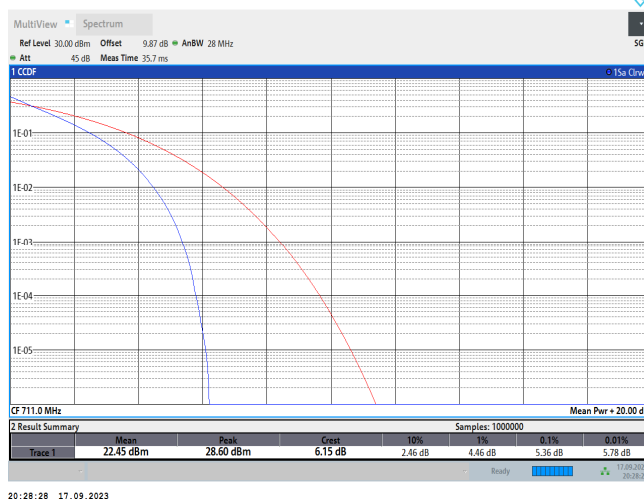


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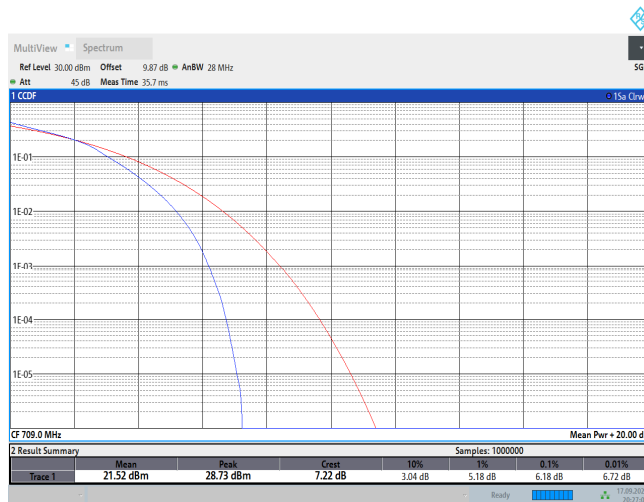
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Band17-10MHz-QPSK-23800-50RB#0



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



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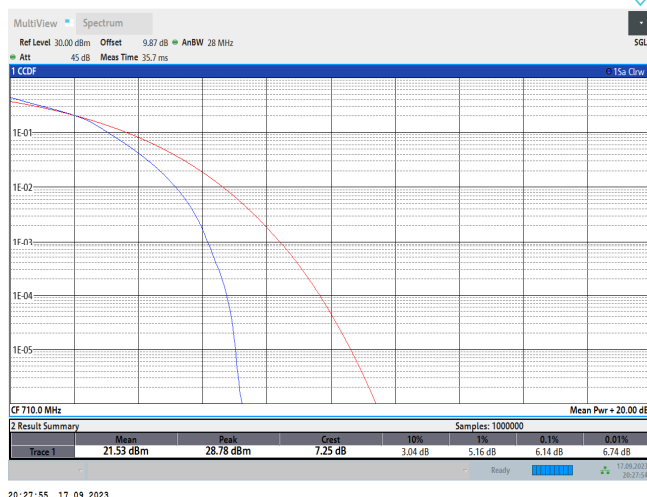
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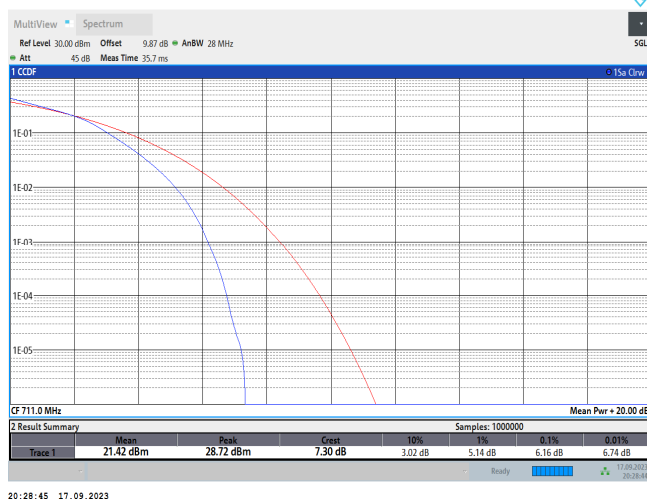
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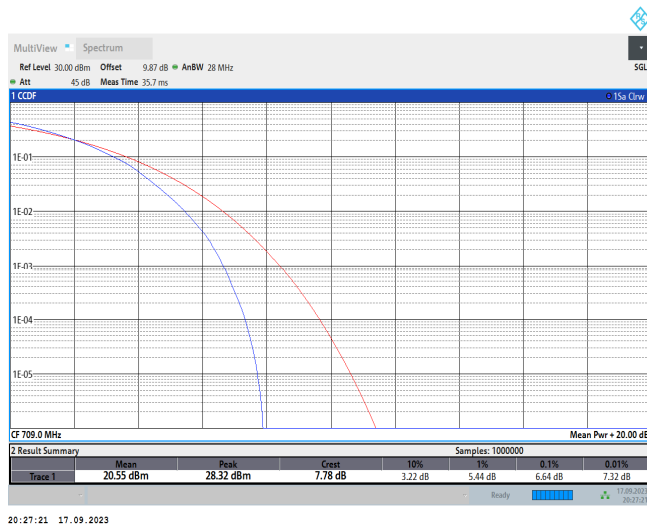
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Band17-10MHz-16QAM-23800-50RB#0



Band17-10MHz-64QAM-23780-50RB#0



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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

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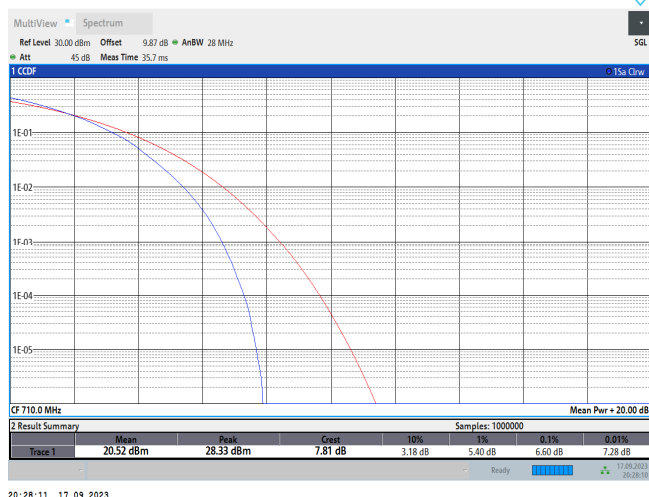


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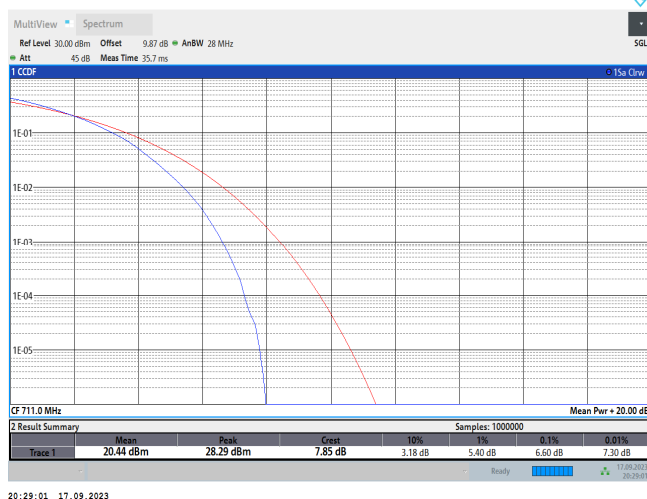
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Band17-10MHz-64QAM-23800-50RB#0



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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	4.467	4.85	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.467	4.86	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.467	4.84	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.464	4.88	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.469	4.89	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.46	4.88	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.474	4.87	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.475	4.87	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.471	4.84	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.932	9.67	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.944	9.63	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.934	9.67	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.924	9.60	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.911	9.60	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.916	9.63	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.932	9.63	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.937	9.60	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.919	9.60	PASS



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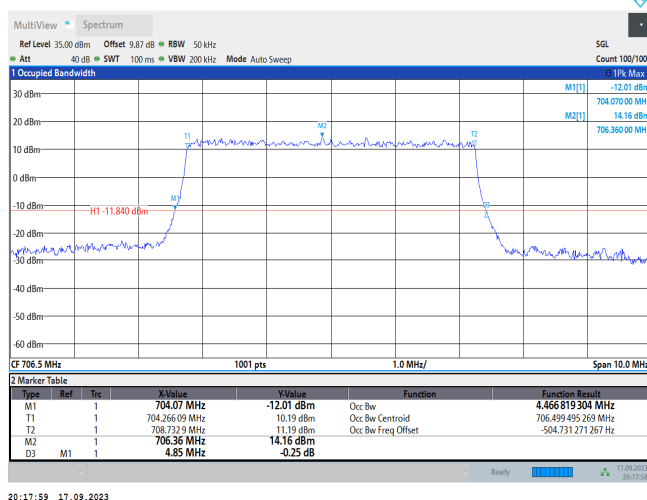
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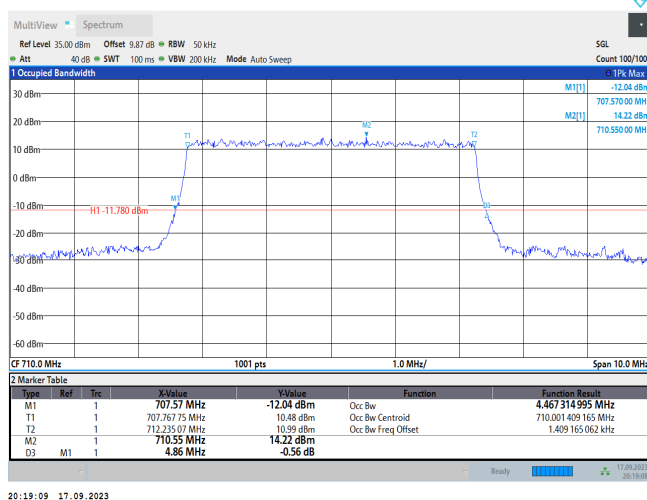
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Test Graphs

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



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

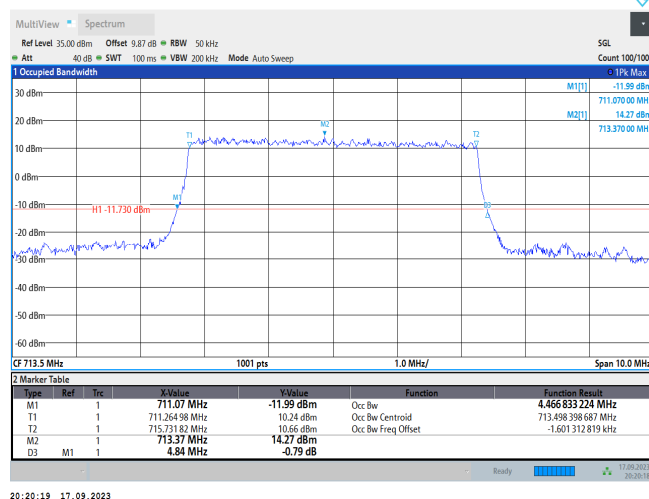


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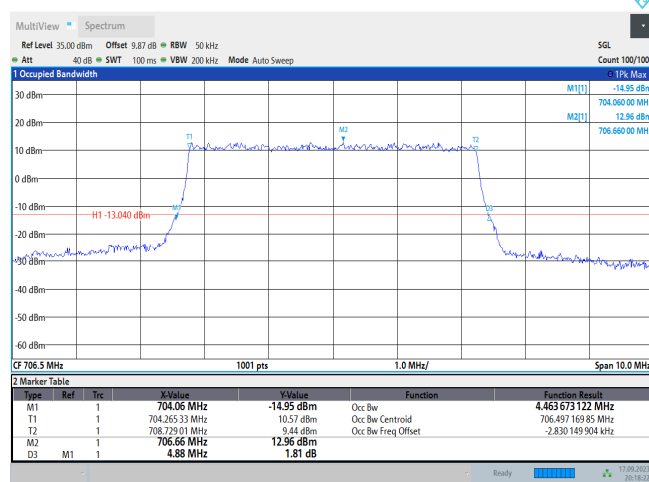
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Band17-5MHz-QPSK-23825-25RB#0



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Band17-5MHz-16QAM-23755-25RB#0



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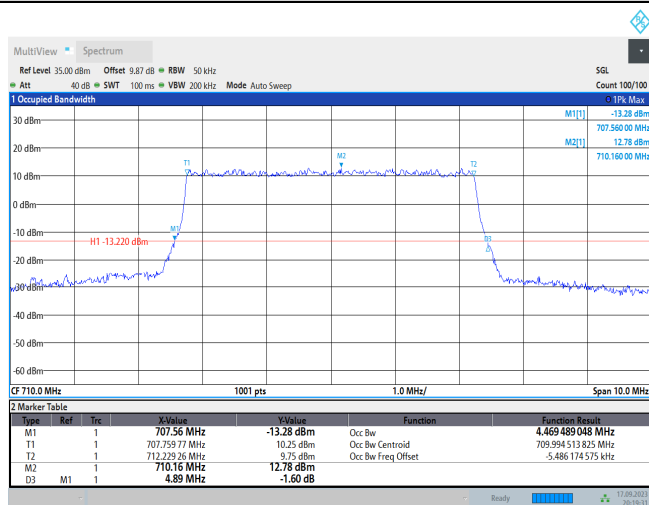
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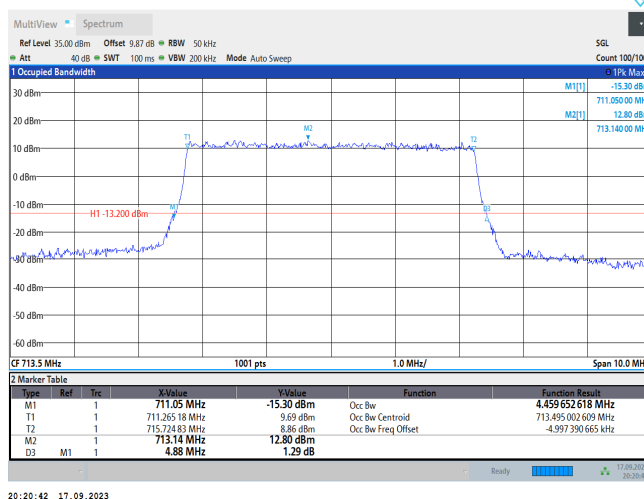
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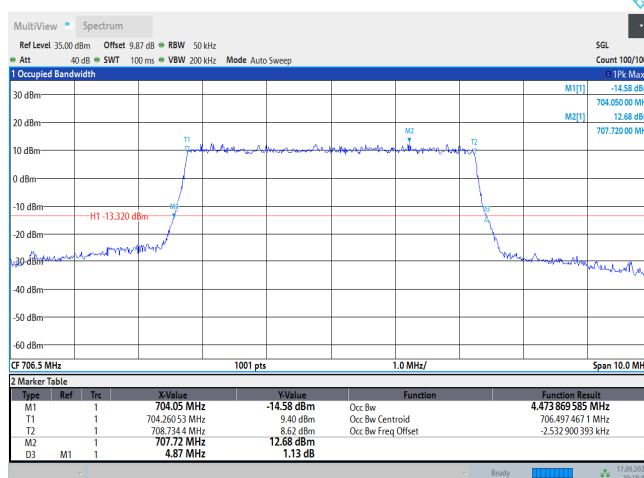
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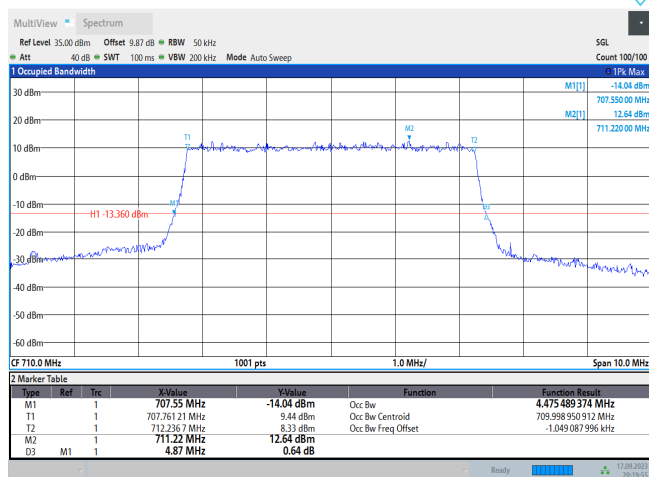


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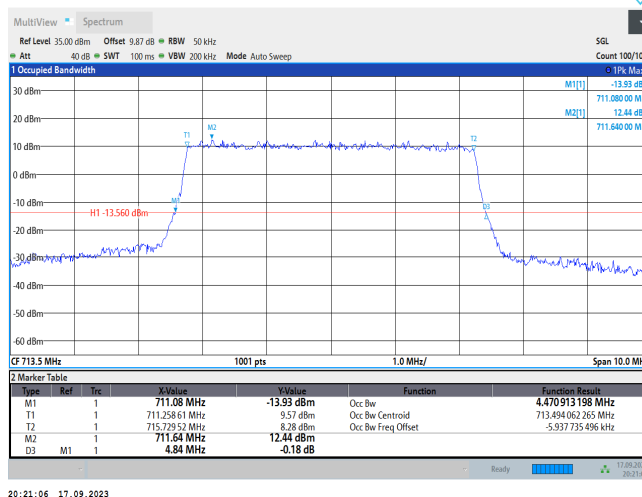
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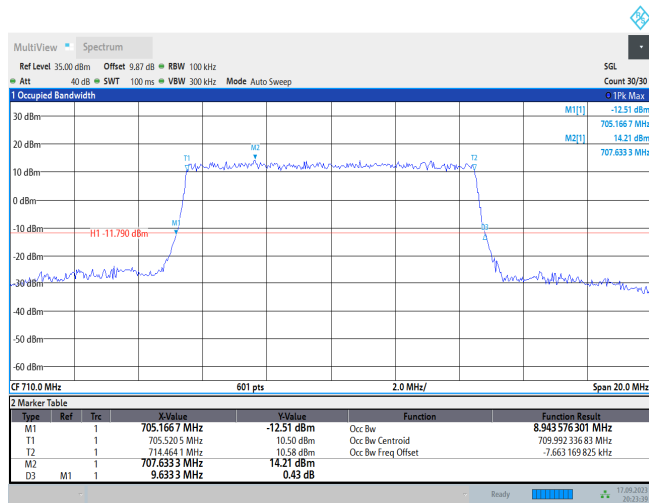


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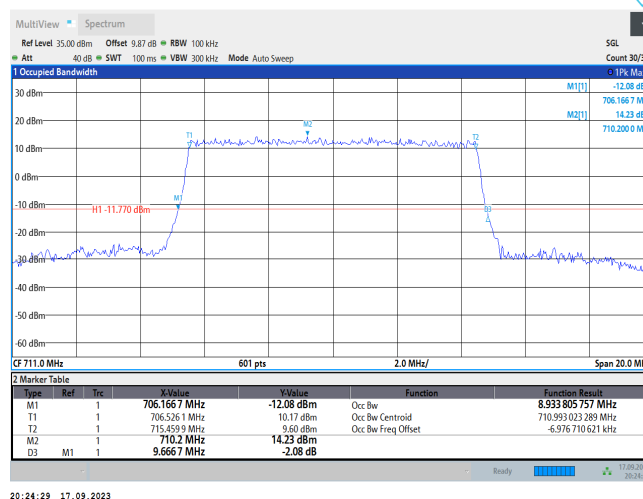
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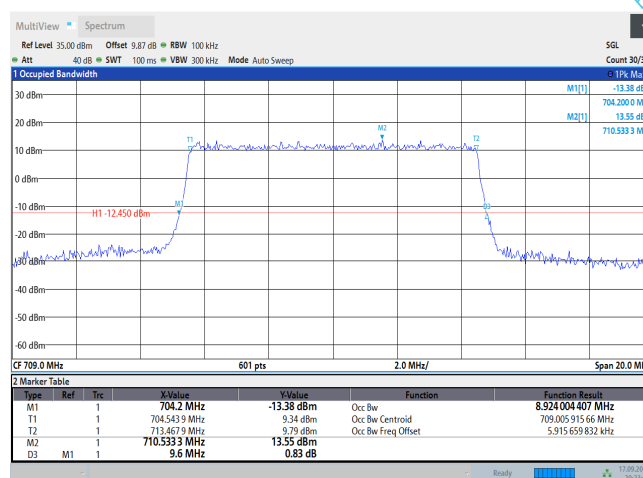
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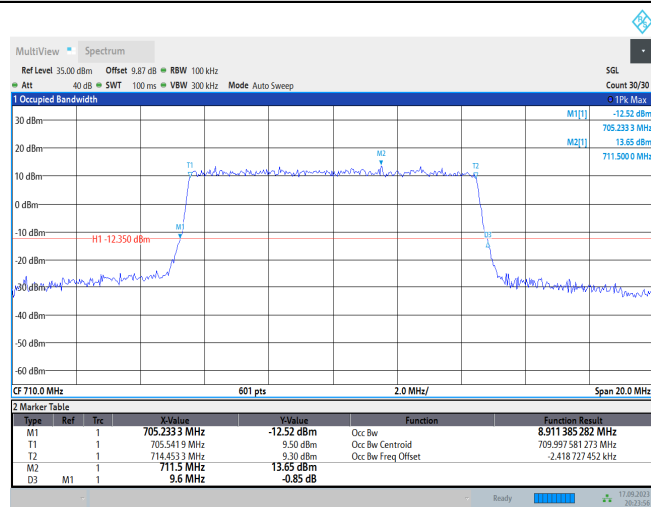
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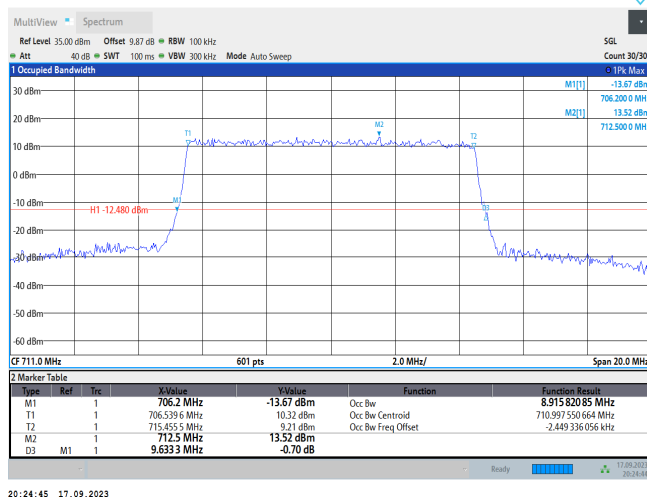
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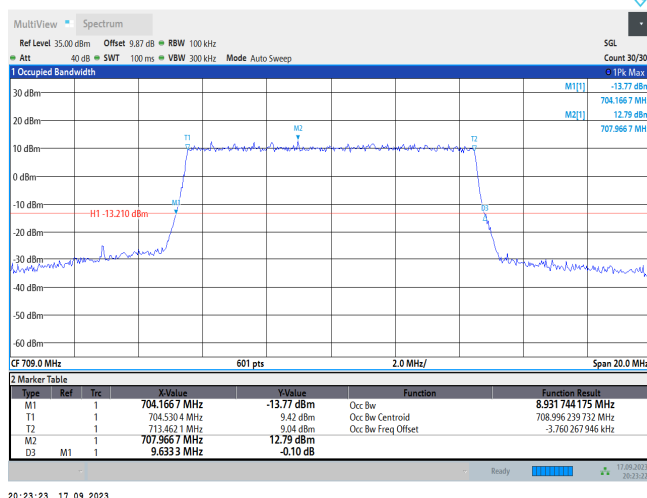
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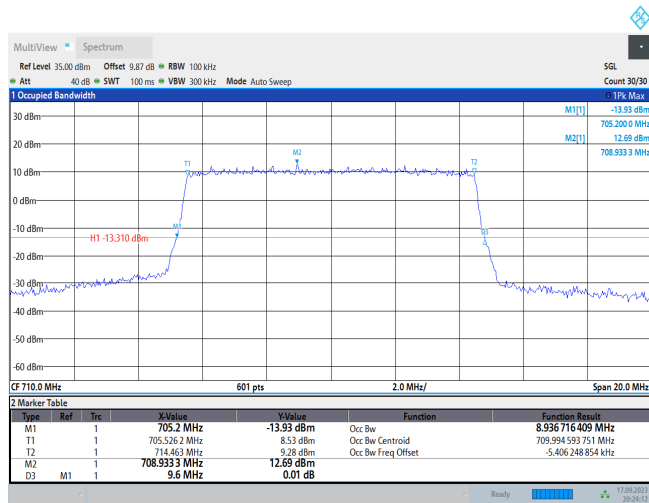


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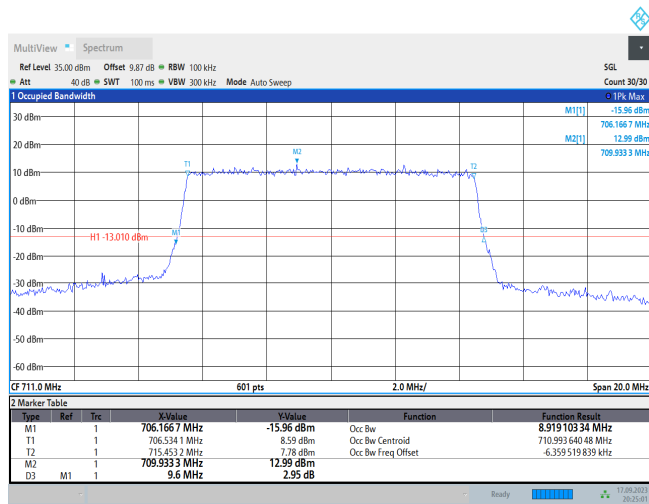
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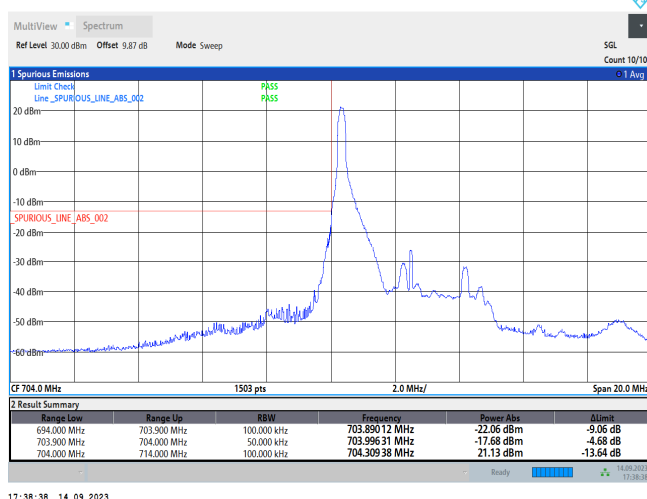
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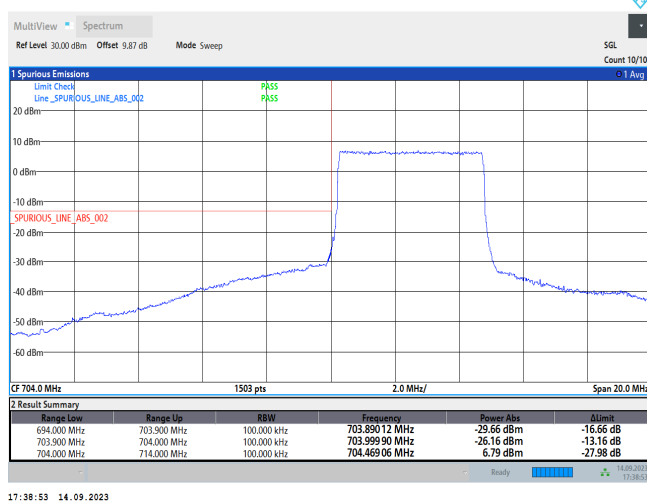
Band Edge

Test Graphs

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



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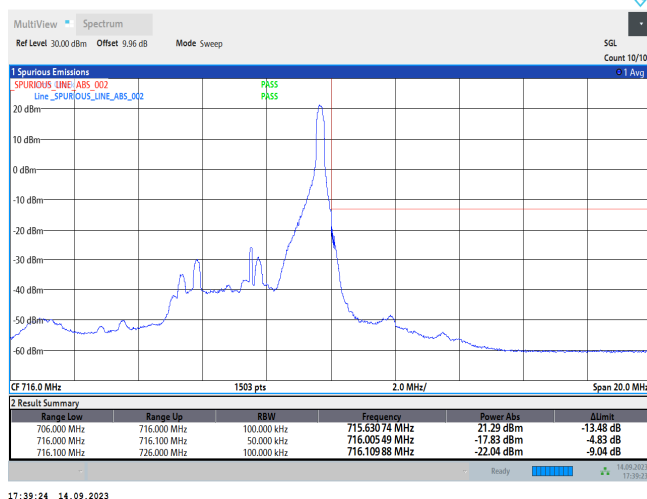
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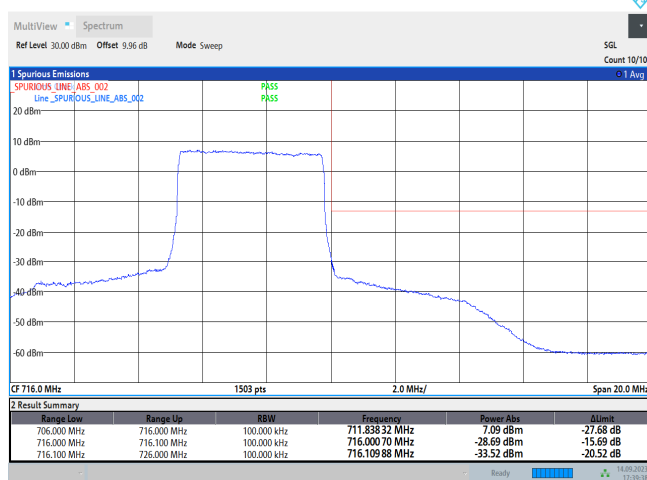
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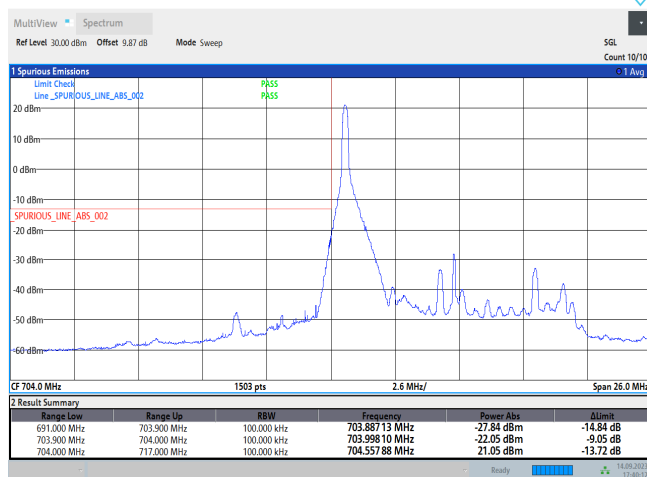
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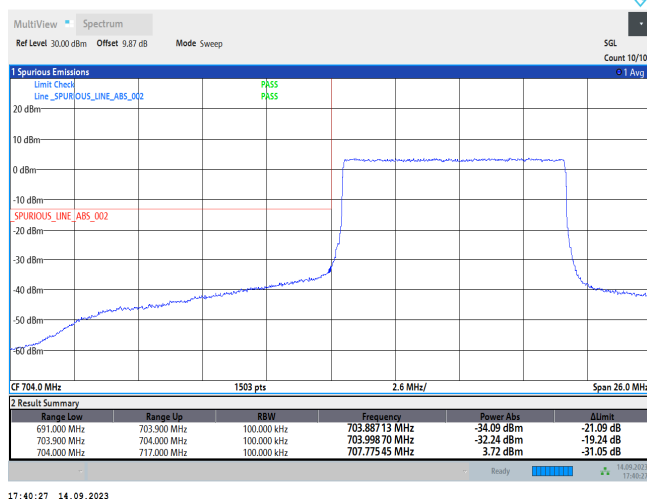
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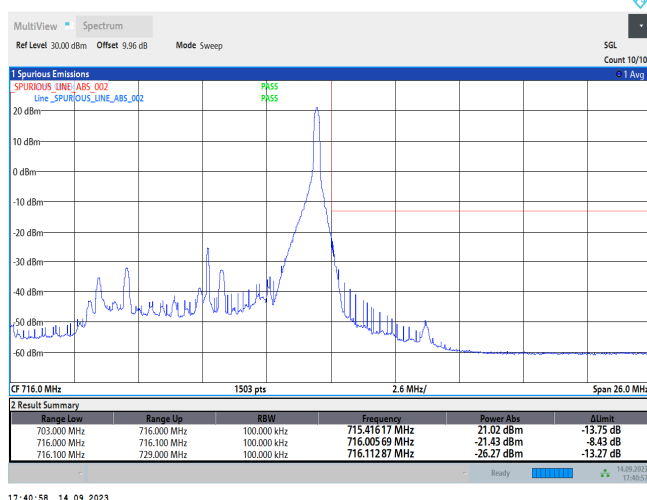
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Band17-10MHz-QPSK-23780-50RB#0



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

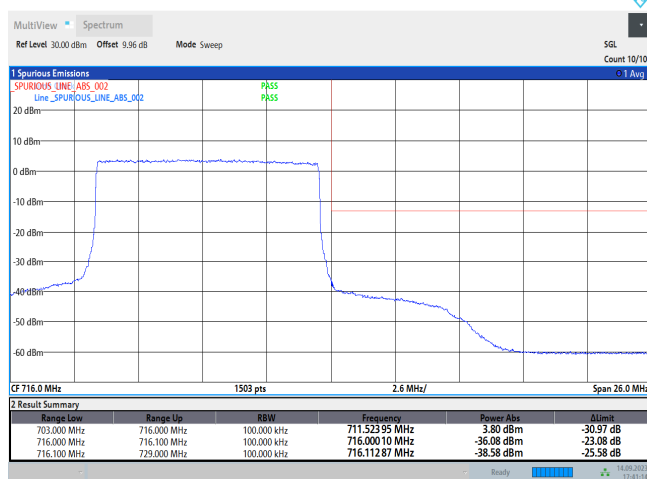


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Band17-10MHz-QPSK-23800-50RB#0



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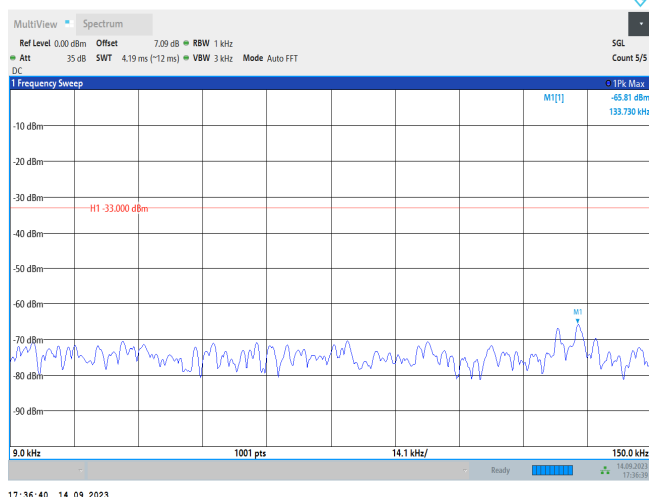
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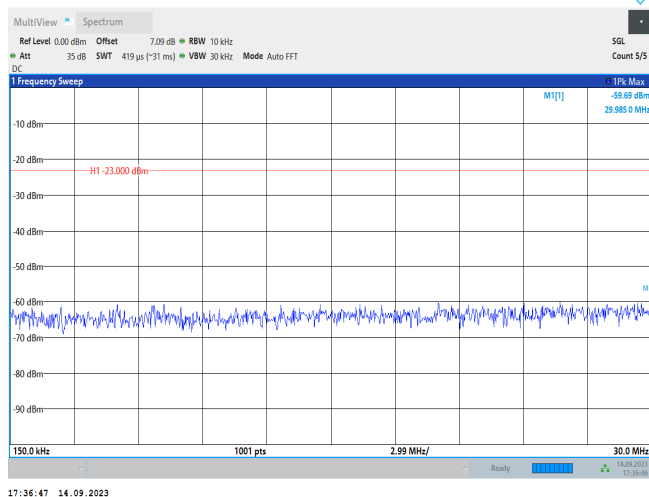
Conducted Spurious Emission

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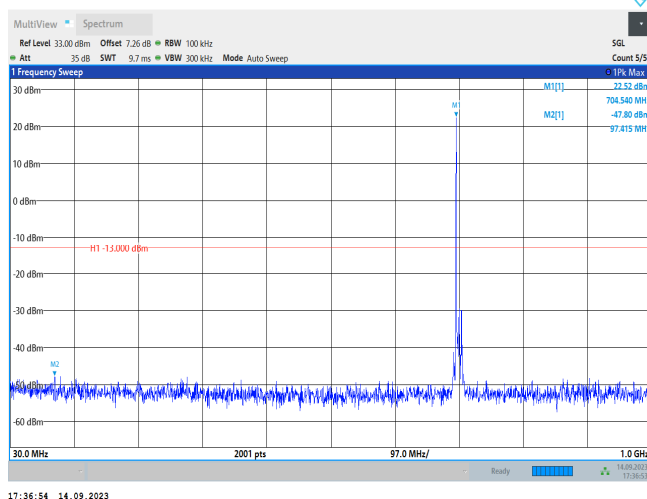
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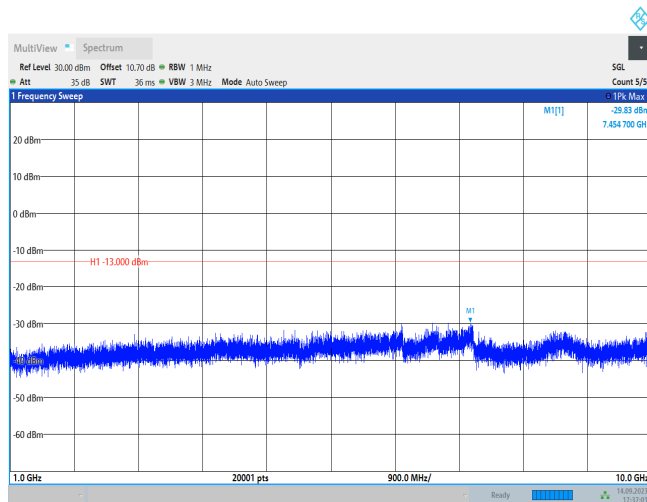
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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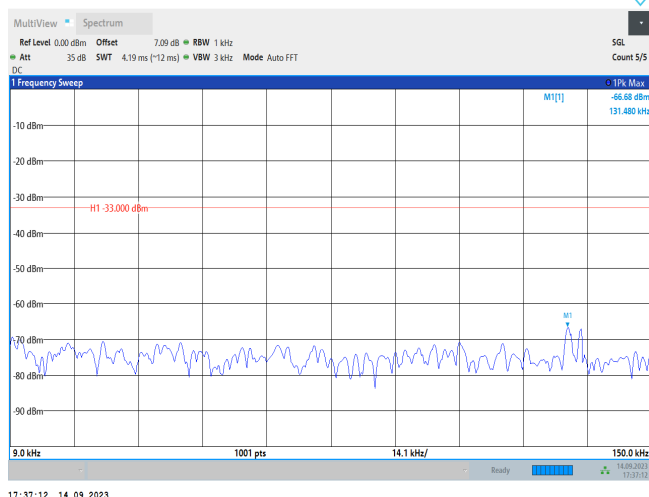


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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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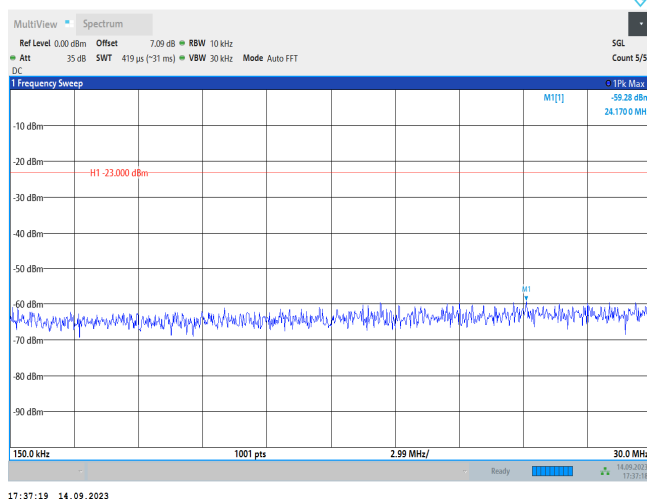
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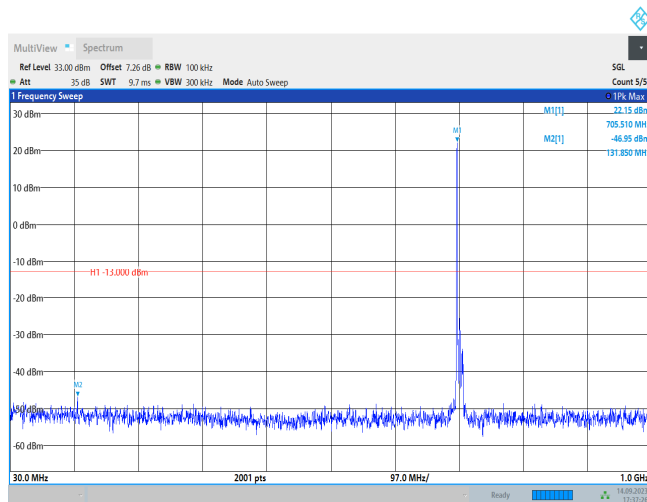
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Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



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



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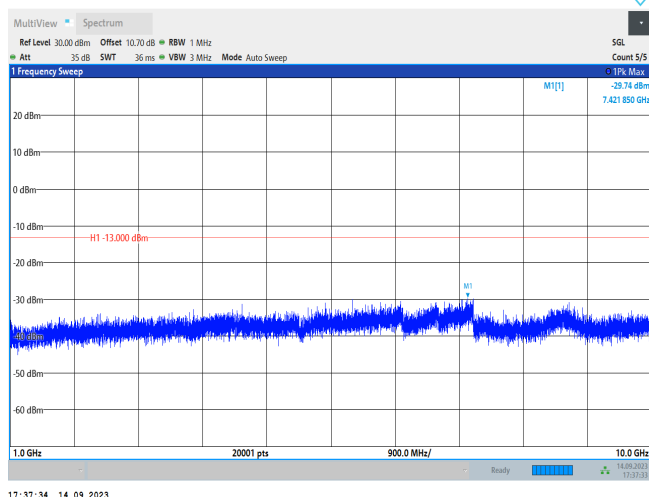
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Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



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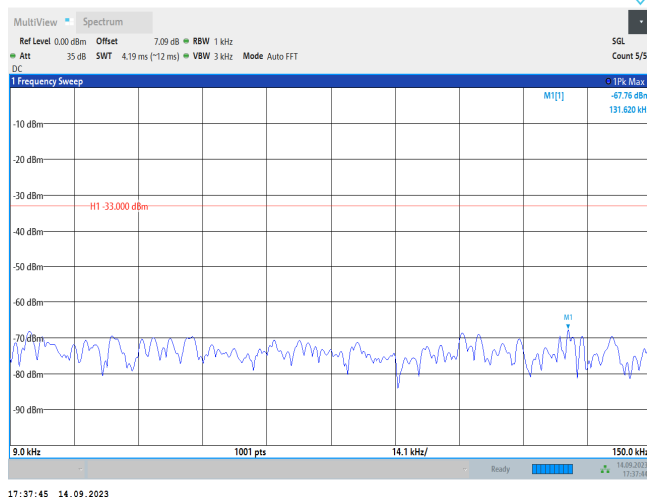
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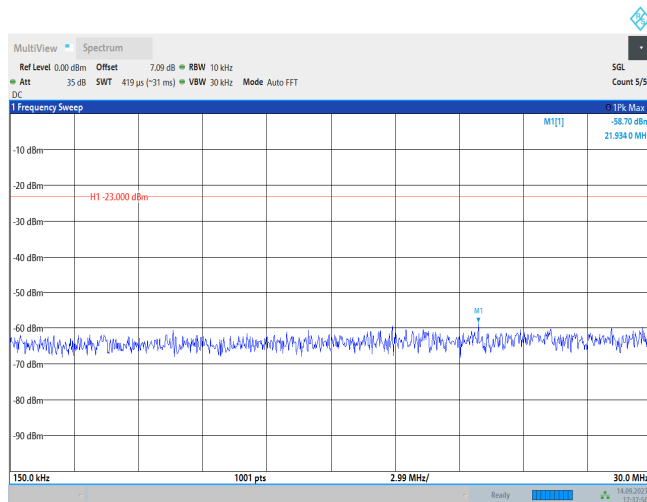
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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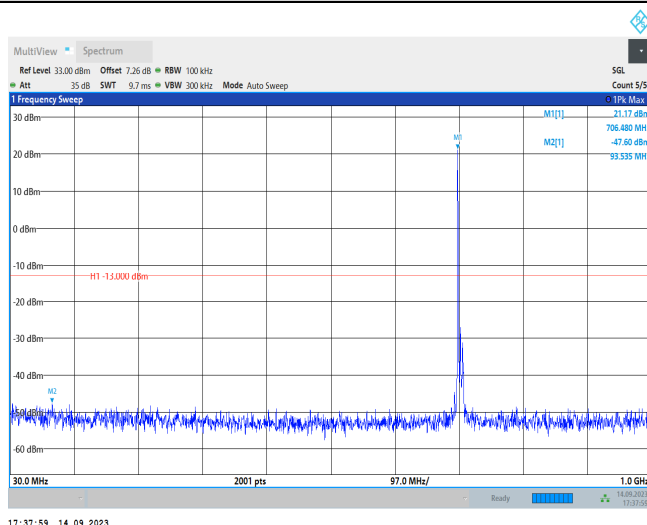
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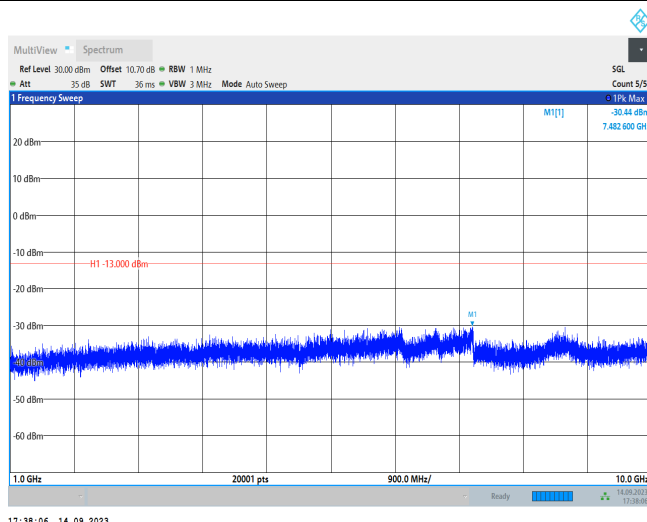
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_17 ANT 1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.5	55.56	-47.41	24.98	-62.13	-13.00	49.13	Horizontal
2	2084.5	47.25	-46.88	26.65	-68.24	-13.00	55.24	Horizontal
3	3123.5	46.83	-45.76	28.81	-65.38	-13.00	52.38	Horizontal
4	3940.5	46.63	-44.22	29.86	-62.99	-13.00	49.99	Horizontal
5	6039.5	44.83	-40.62	33.40	-57.65	-13.00	44.65	Horizontal
6	9916.5	41.89	-35.35	38.62	-50.10	-13.00	37.10	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	55.09	-47.41	24.97	-62.61	-13.00	49.61	Vertical
2	2127	47.30	-46.91	26.64	-68.23	-13.00	55.23	Vertical
3	3064.5	47.02	-45.82	28.83	-65.23	-13.00	52.23	Vertical
4	4635.5	46.63	-43.12	30.17	-61.58	-13.00	48.58	Vertical
5	7407	43.60	-38.35	36.71	-53.30	-13.00	40.30	Vertical
6	9911.5	41.86	-35.33	38.61	-50.12	-13.00	37.12	Vertical



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Test Band = LTE_17 ANT 1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	60.06	-47.42	24.99	-57.63	-13.00	44.63	Horizontal
2	2365	47.37	-46.62	27.54	-66.97	-13.00	53.97	Horizontal
3	3135.5	47.05	-45.69	28.76	-65.14	-13.00	52.14	Horizontal
4	4779.5	46.11	-42.90	30.68	-61.37	-13.00	48.37	Horizontal
5	7382	43.78	-38.43	36.63	-53.28	-13.00	40.28	Horizontal
6	9906.5	42.15	-35.32	38.61	-49.82	-13.00	36.82	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	54.38	-47.42	24.99	-63.31	-13.00	50.31	Vertical
2	2080.5	46.83	-46.88	26.61	-68.70	-13.00	55.70	Vertical
3	2824.5	46.97	-46.05	28.30	-66.04	-13.00	53.04	Vertical
4	3998.5	46.94	-43.96	29.80	-62.48	-13.00	49.48	Vertical
5	6133.5	44.85	-40.63	33.33	-57.71	-13.00	44.71	Vertical
6	9886.5	42.03	-35.32	38.49	-50.06	-13.00	37.06	Vertical



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Test Band = LTE_17 ANT 1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	58.42	-47.42	25.00	-59.26	-13.00	46.26	Horizontal
2	2069.5	47.57	-46.89	26.50	-68.08	-13.00	55.08	Horizontal
3	3123.5	46.83	-45.76	28.81	-65.38	-13.00	52.38	Horizontal
4	4416	46.82	-43.23	30.10	-61.57	-13.00	48.57	Horizontal
5	7420.5	43.62	-38.36	36.74	-53.26	-13.00	40.26	Horizontal
6	9917	41.95	-35.36	38.62	-50.05	-13.00	37.05	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	54.31	-47.42	25.00	-63.37	-13.00	50.37	Vertical
2	2072.5	47.45	-46.89	26.53	-68.17	-13.00	55.17	Vertical
3	3062.5	47.14	-45.81	28.83	-65.10	-13.00	52.10	Vertical
4	3964	46.96	-44.12	29.87	-62.55	-13.00	49.55	Vertical
5	5986	45.58	-40.80	32.97	-57.51	-13.00	44.51	Vertical
6	9884.5	42.13	-35.33	38.48	-49.98	-13.00	36.98	Vertical



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Test Band = LTE_17 ANT 0

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	55.73	-47.41	24.97	-61.97	-13.00	48.97	Horizontal
2	2100	46.80	-46.87	26.80	-68.53	-13.00	55.53	Horizontal
3	3053	46.55	-45.79	28.81	-65.69	-13.00	52.69	Horizontal
4	4389.5	46.02	-43.23	30.06	-62.41	-13.00	49.41	Horizontal
5	7499	42.74	-38.38	36.90	-54.00	-13.00	41.00	Horizontal
6	9891	40.98	-35.31	38.53	-51.06	-13.00	38.06	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	50.81	-47.41	24.97	-66.89	-13.00	53.89	Vertical
2	2099	46.65	-46.87	26.79	-68.69	-13.00	55.69	Vertical
3	3060	46.87	-45.81	28.82	-65.38	-13.00	52.38	Vertical
4	4328.5	45.99	-43.00	29.73	-62.54	-13.00	49.54	Vertical
5	7428	42.90	-38.36	36.76	-53.96	-13.00	40.96	Vertical
6	9915.5	40.77	-35.35	38.62	-51.22	-13.00	38.22	Vertical



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

1/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 ANT 0
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	53.61	-47.42	24.99	-64.08	-13.00	51.08	Horizontal
2	1979.5	47.18	-46.96	26.09	-68.95	-13.00	55.95	Horizontal
3	3125.5	46.52	-45.75	28.80	-65.69	-13.00	52.69	Horizontal
4	4823	45.73	-42.90	30.71	-61.72	-13.00	48.72	Horizontal
5	7418	43.14	-38.36	36.74	-53.74	-13.00	40.74	Horizontal
6	9886	41.35	-35.32	38.49	-50.74	-13.00	37.74	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	50.45	-47.42	24.99	-67.24	-13.00	54.24	Vertical
2	2348	46.92	-46.63	27.58	-67.39	-13.00	54.39	Vertical
3	3707	46.68	-44.53	29.34	-63.77	-13.00	50.77	Vertical
4	5143.5	45.10	-42.60	31.76	-61.00	-13.00	48.00	Vertical
5	7422.5	43.15	-38.36	36.75	-53.72	-13.00	40.72	Vertical
6	9912.5	41.30	-35.34	38.61	-50.69	-13.00	37.69	Vertical



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1/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 ANT 0
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	55.96	-47.42	25.00	-61.72	-13.00	48.72	Horizontal
2	2363.5	47.20	-46.62	27.55	-67.13	-13.00	54.13	Horizontal
3	3688.5	46.65	-44.48	29.30	-63.79	-13.00	50.79	Horizontal
4	5629.5	44.79	-41.38	32.54	-59.31	-13.00	46.31	Horizontal
5	7495.5	42.98	-38.38	36.89	-53.77	-13.00	40.77	Horizontal
6	9879.5	41.00	-35.34	38.44	-51.16	-13.00	38.16	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	51.66	-47.42	25.00	-66.02	-13.00	53.02	Vertical
2	1993	46.98	-46.94	26.36	-68.86	-13.00	55.86	Vertical
3	3074	46.63	-45.84	28.85	-65.62	-13.00	52.62	Vertical
4	4315.5	46.25	-42.95	29.62	-62.34	-13.00	49.34	Vertical
5	7422.5	42.82	-38.36	36.75	-54.05	-13.00	41.05	Vertical
6	9911.5	41.05	-35.33	38.61	-50.93	-13.00	37.93	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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1/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
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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-5.29	-0.007451	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-4.65	-0.006549	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-5.14	-0.007239	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	3.60	0.005070	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	3.42	0.004817	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-6.34	-0.008930	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-2.65	-0.003732	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-5.16	-0.007268	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-7.22	-0.010169	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-3.38	-0.004761	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-7.31	-0.010296	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-5.88	-0.008282	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.sgs.com.cn
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