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Appendix B.9

LTE Band 17



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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
Band17	5MHz	QPSK	23755	1RB#0	24.52	22.17	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.36	22.01	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.97	22.62	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	24.14	21.79	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.36	22.01	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.54	22.19	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.63	22.28	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	24.15	21.8	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.52	22.17	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.55	22.2	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.31	21.96	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	24.17	21.82	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	24.35	22	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	24.28	21.93	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	24.28	21.93	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	23.2	20.85	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	24.38	22.03	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	24.25	21.9	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	24.31	21.96	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	23.16	20.81	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	24.3	21.95	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	24.23	21.88	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	24.3	21.95	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	23.14	20.79	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	23.31	20.96	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	23.4	21.05	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	23.2	20.85	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	22.17	19.82	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	23.66	21.31	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	23.33	20.98	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	23.28	20.93	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	22.19	19.84	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	23.5	21.15	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	23.28	20.93	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	23.25	20.9	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	22.16	19.81	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	20.22	17.87	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	20.19	17.84	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	20.08	17.73	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	20.18	17.83	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	20.17	17.82	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	20.36	18.01	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	20.31	17.96	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	20.18	17.83	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	20.34	17.99	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	20.31	17.96	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	20.16	17.81	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	20.2	17.85	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.63	22.28	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.51	22.16	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.36	22.01	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	24.19	21.84	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.32	21.97	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.52	22.17	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.56	22.21	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	24.16	21.81	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.13	21.78	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.58	22.23	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.12	21.77	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	24.08	21.73	34.77	PASS



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Band17	10MHz	16QAM	23780	1RB#0	24.1	21.75	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	24.16	21.81	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	24.24	21.89	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	23.2	20.85	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	24.21	21.86	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	24.31	21.96	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	24.11	21.76	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	23.16	20.81	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	24.34	21.99	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	24.28	21.93	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	24.28	21.93	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	23.13	20.78	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	23.21	20.86	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	23.3	20.95	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	23.43	21.08	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	22.23	19.88	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	23.35	21	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	23.45	21.1	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	23.58	21.23	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	22.19	19.84	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	23.43	21.08	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	23.43	21.08	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	23.16	20.81	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	22.07	19.72	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	20.11	17.76	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	20.19	17.84	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	20.19	17.84	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	20.28	17.93	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	20.18	17.83	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	20.3	17.95	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	20.26	17.91	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	20.24	17.89	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	20.21	17.86	34.77	PASS



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Band17	10MHz	256QAM	23800	1RB#24	20.33	17.98	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	20.19	17.84	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	20.19	17.84	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	4.40	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.58	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.50	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.26	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.38	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.38	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.08	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.18	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.20	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.48	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.56	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.56	13	PASS



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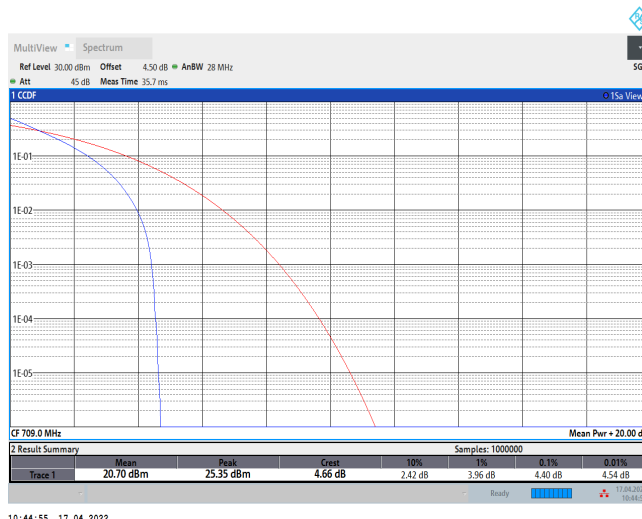
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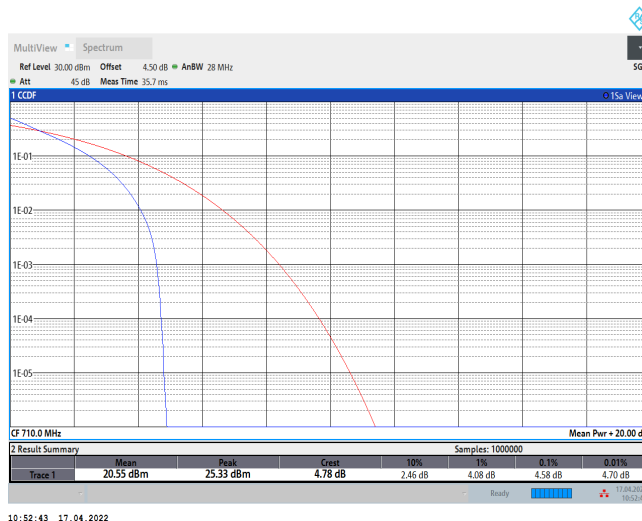
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Test Graphs

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



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



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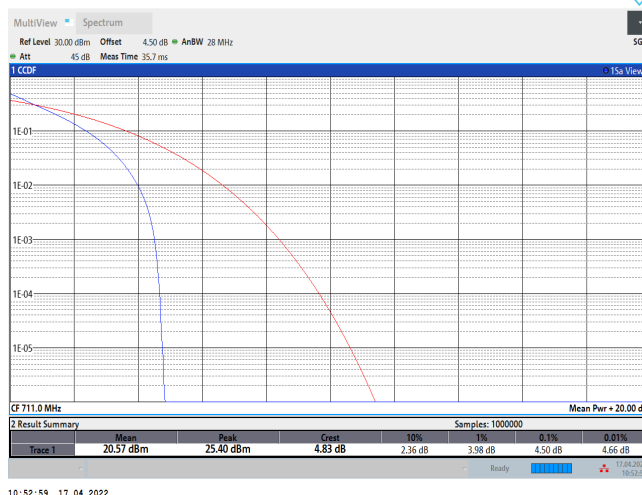
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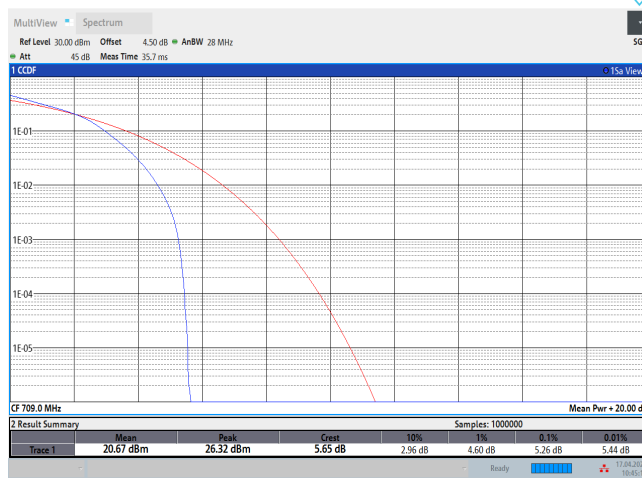
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Band17-10MHz-QPSK-23800-50RB#0



10:52:59 17.04.2022

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



10:45:11 17.04.2022



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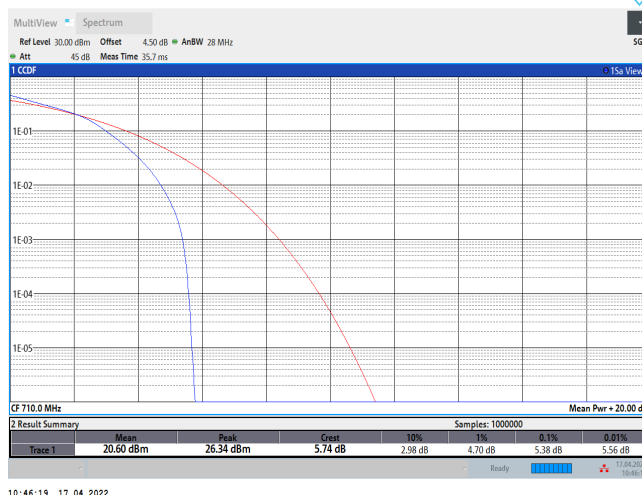
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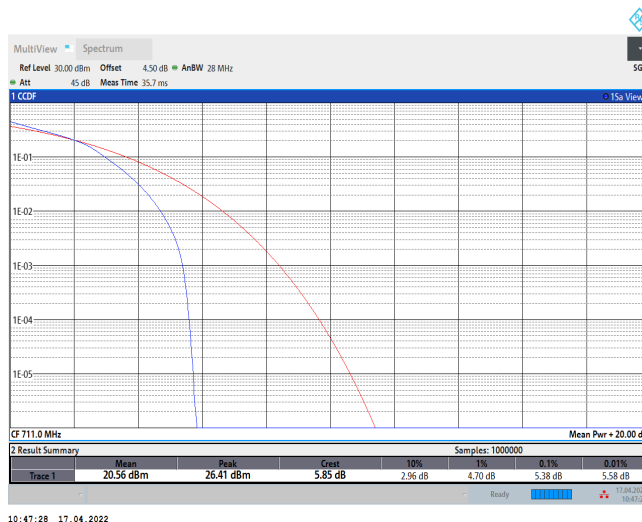
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Band17-10MHz-16QAM-23790-50RB#0



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



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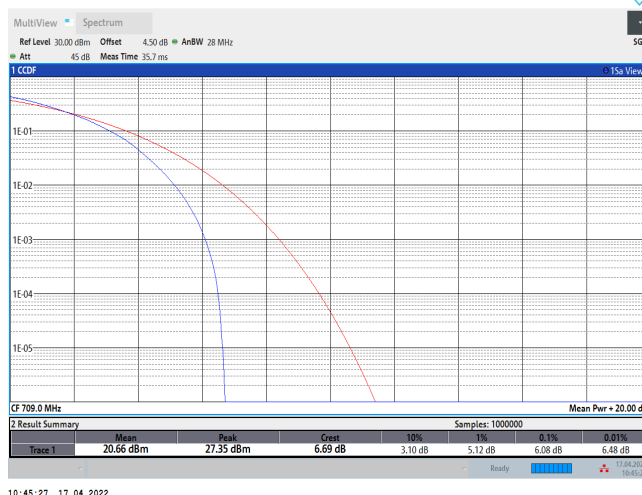
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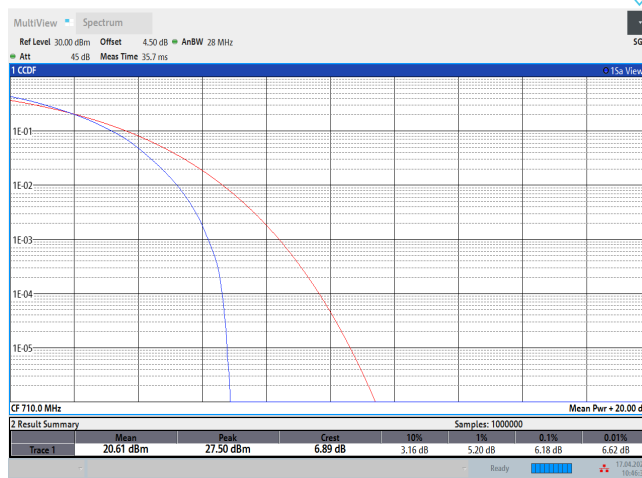
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Band17-10MHz-64QAM-23780-50RB#0



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



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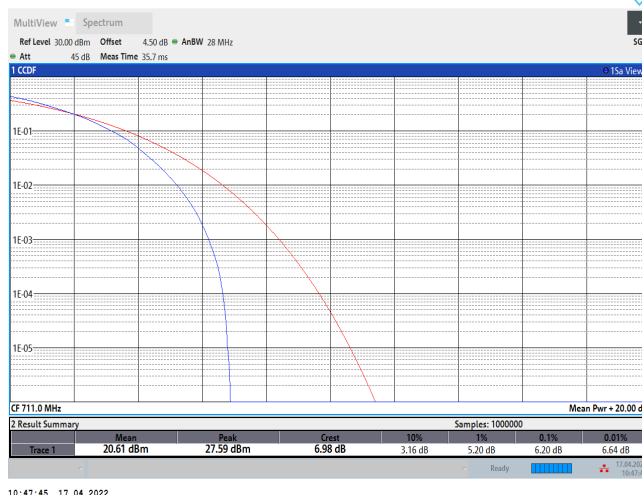
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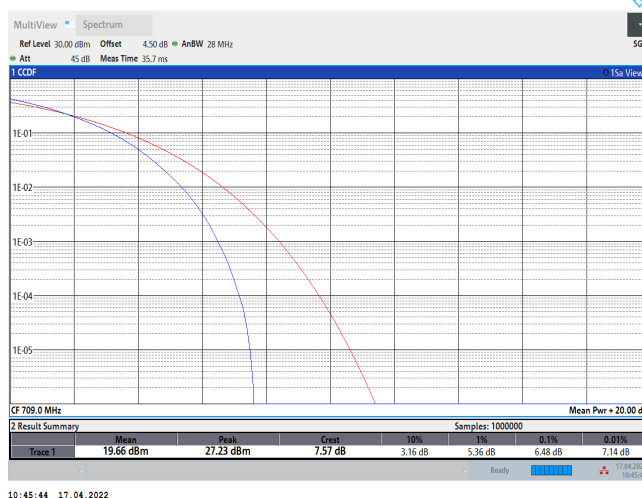
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Band17-10MHz-64QAM-23800-50RB#0



Band17-10MHz-256QAM-23780-50RB#0



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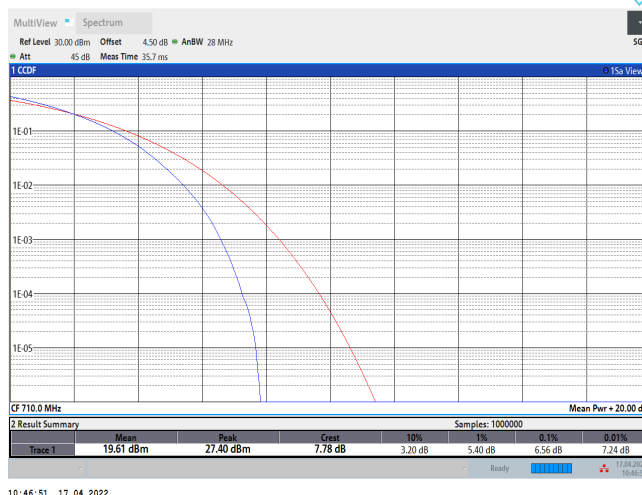
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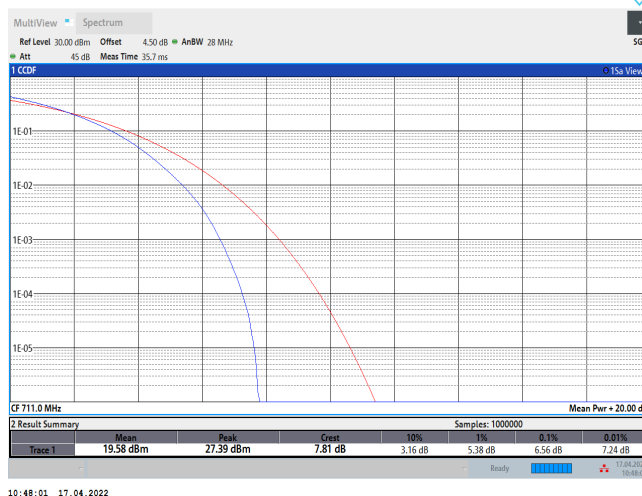
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	256QAM	23790	50RB#0	PASS	PASS



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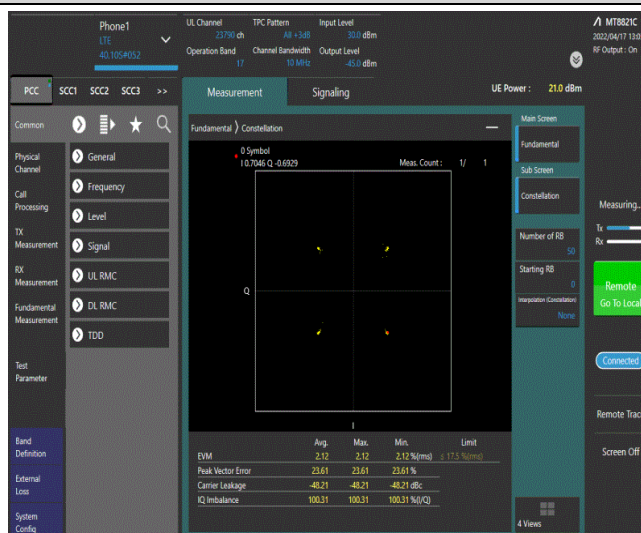
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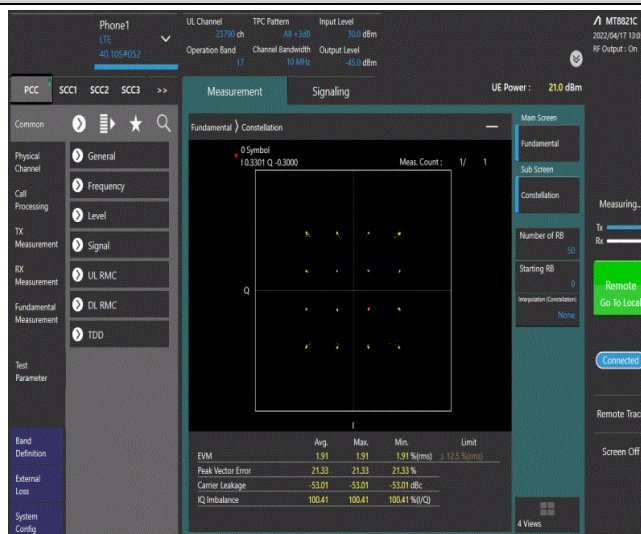
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Test Graphs

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



Band17-10MHz-16QAM-23790-50RB#0



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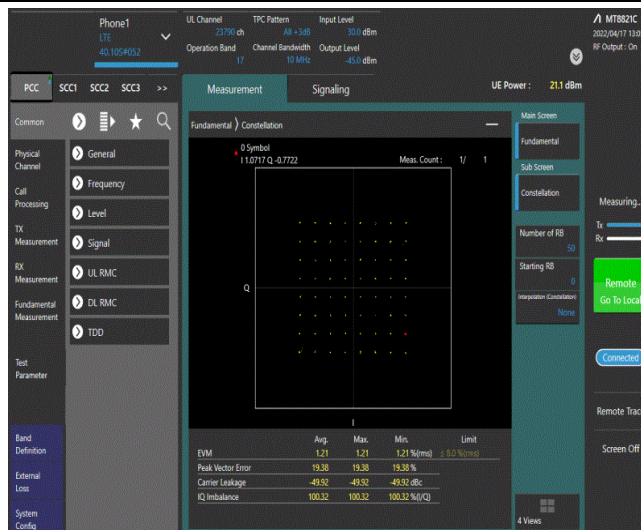
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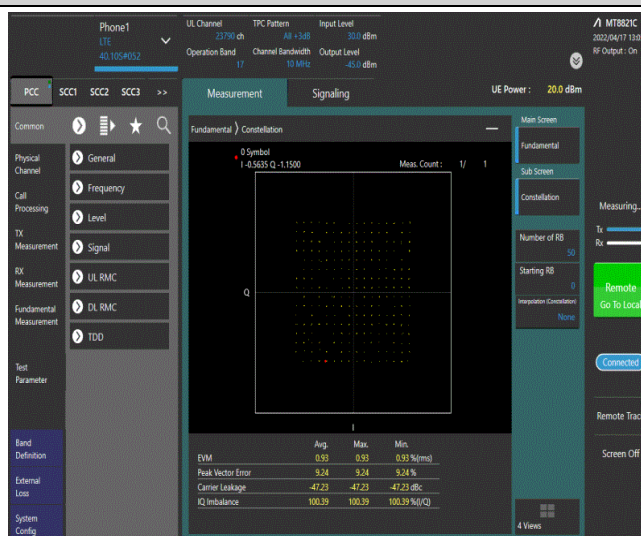
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Band17-10MHz-64QAM-23790-50RB#0



Band17-10MHz-256QAM-23790-50RB#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	4.484	5.11	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.477	5.02	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	5.04	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	5.13	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.480	5.04	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.483	5.10	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.478	5.01	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.478	5.06	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.482	5.06	PASS
Band17	5MHz	256QAM	23755	25RB#0	4.478	5.06	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.483	4.99	PASS
Band17	5MHz	256QAM	23825	25RB#0	4.483	5.04	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.953	9.87	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.958	9.97	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.946	9.87	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.942	9.90	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.943	9.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.960	9.80	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.948	9.83	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.930	9.80	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.952	9.83	PASS
Band17	10MHz	256QAM	23780	50RB#0	8.926	9.80	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.957	10.00	PASS
Band17	10MHz	256QAM	23800	50RB#0	8.947	9.83	PASS



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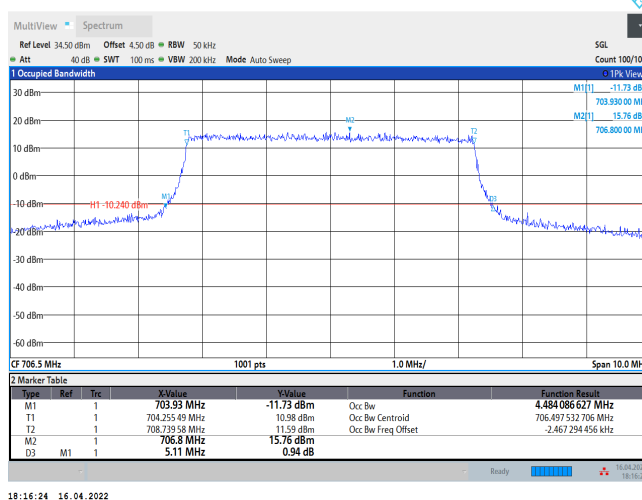
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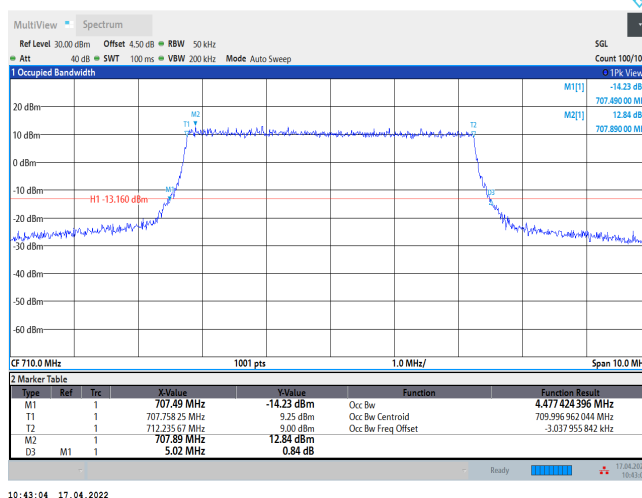
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Test Graphs

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



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



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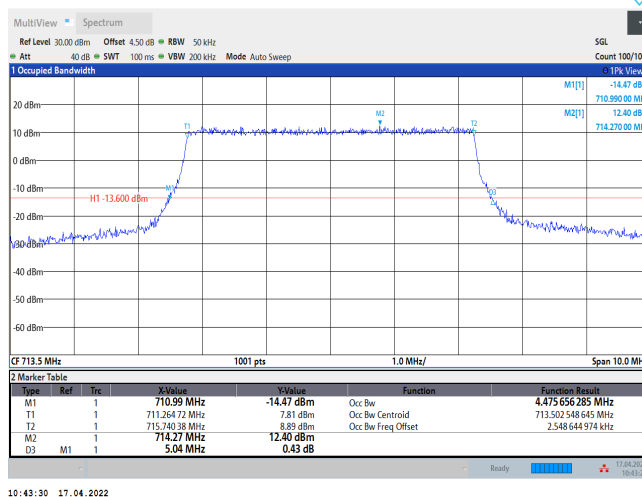
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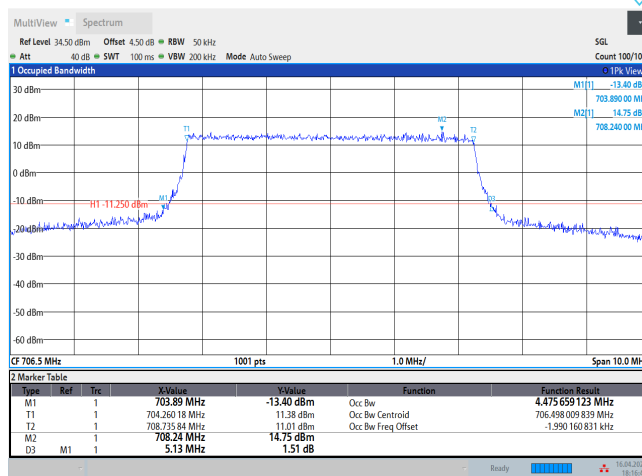
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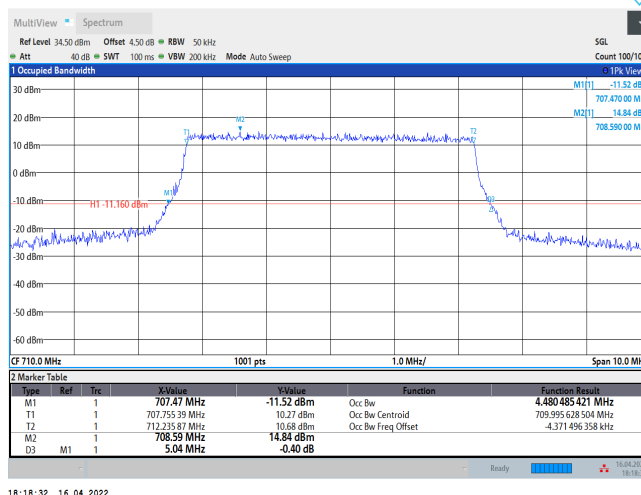
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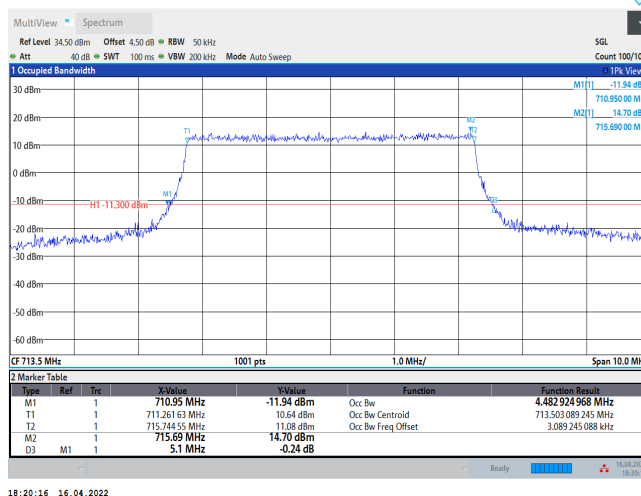
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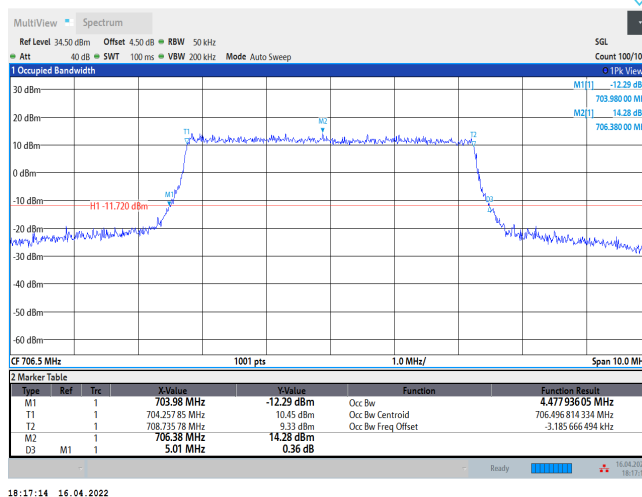
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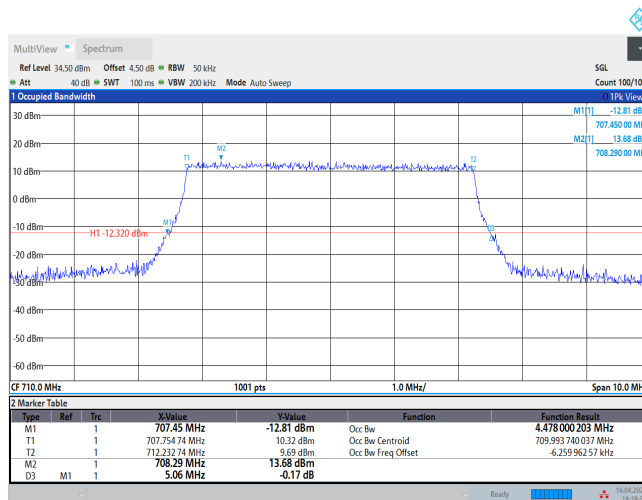
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18:17:14 16.04.2022

Band17-5MHz-64QAM-23790-25RB#0



18:18:57 16.04.2022



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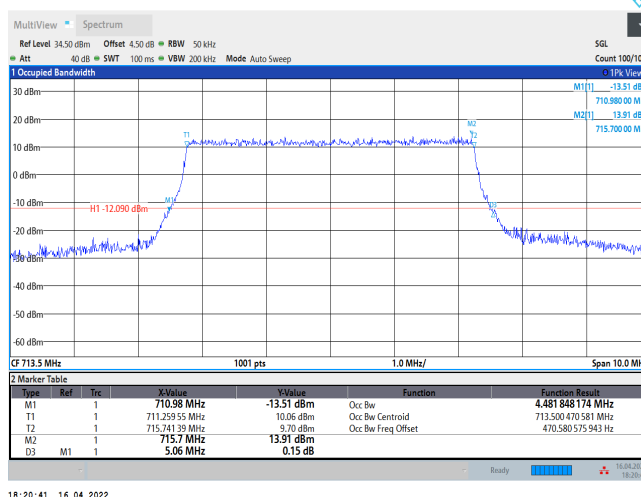
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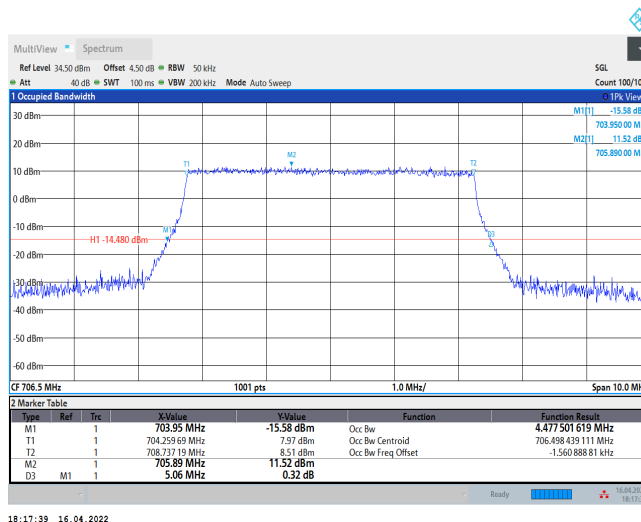
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Band17-5MHz-64QAM-23825-25RB#0



Band17-5MHz-256QAM-23755-25RB#0



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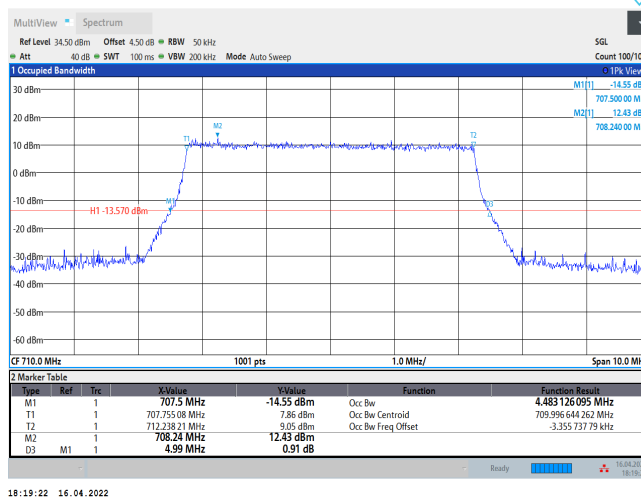
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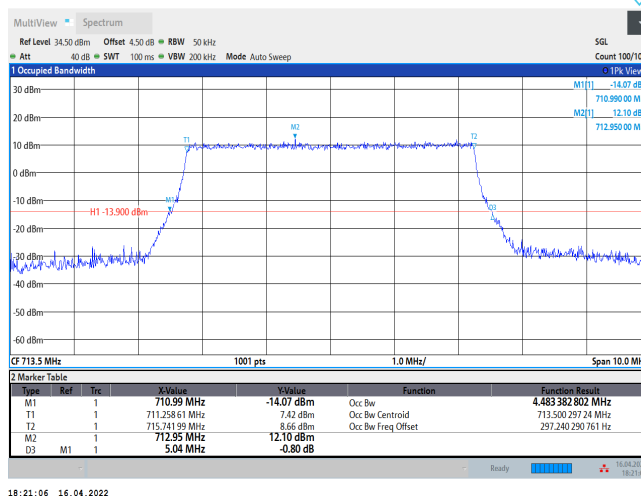
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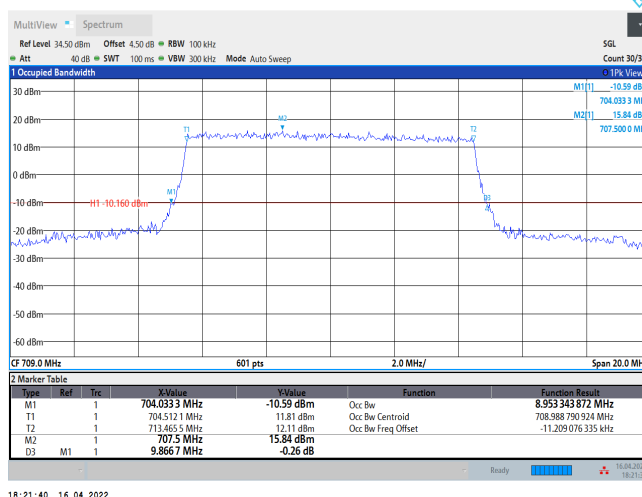
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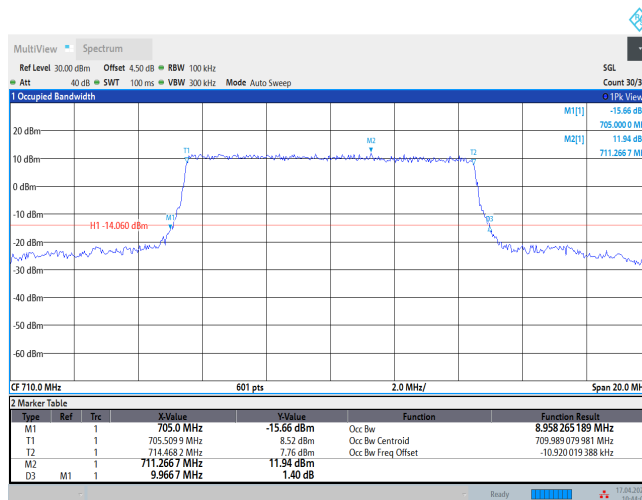
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Band17-10MHz-QPSK-23780-50RB#0



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



10:44:03 17.04.2022



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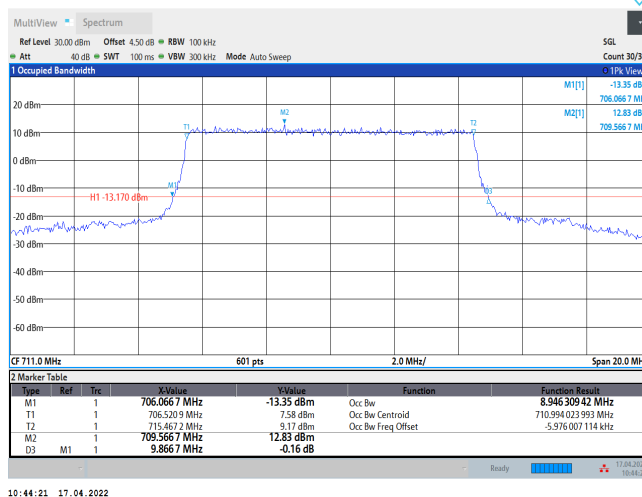
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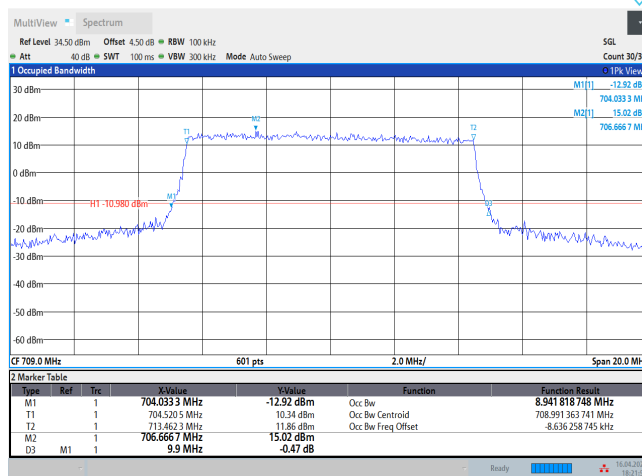
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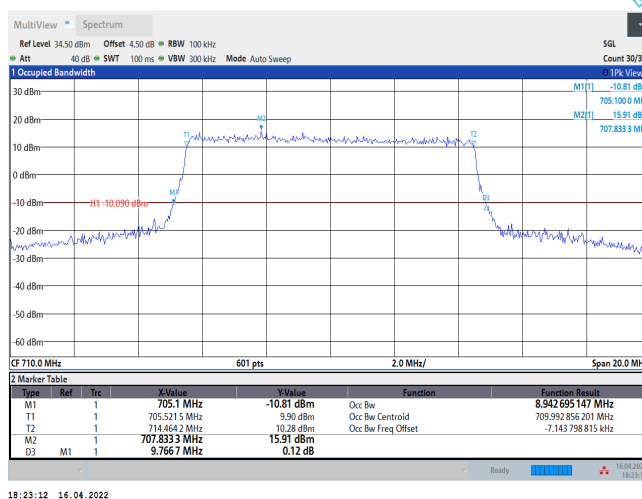
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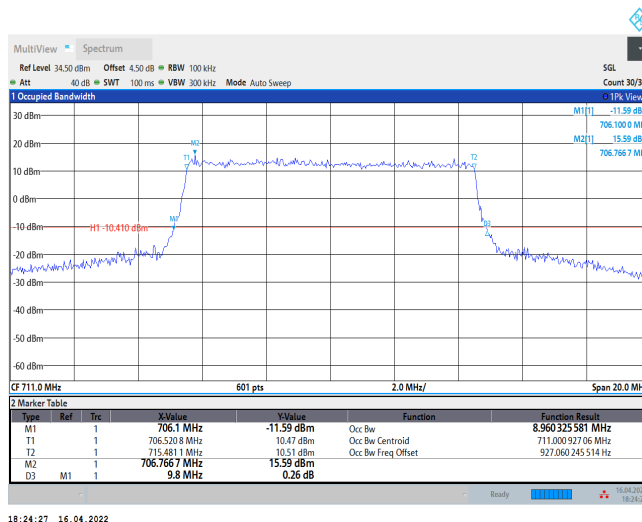
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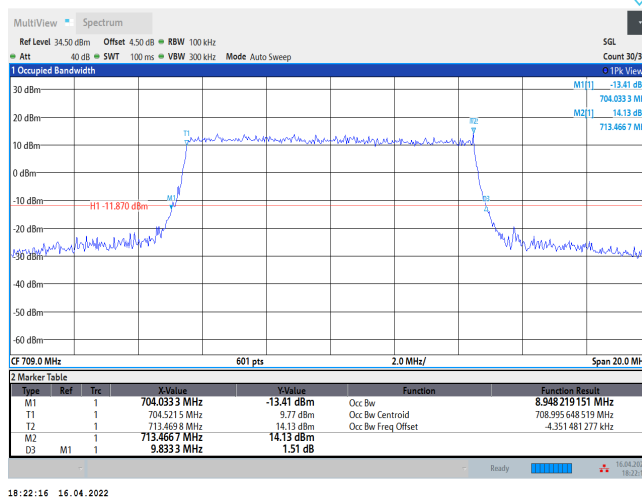
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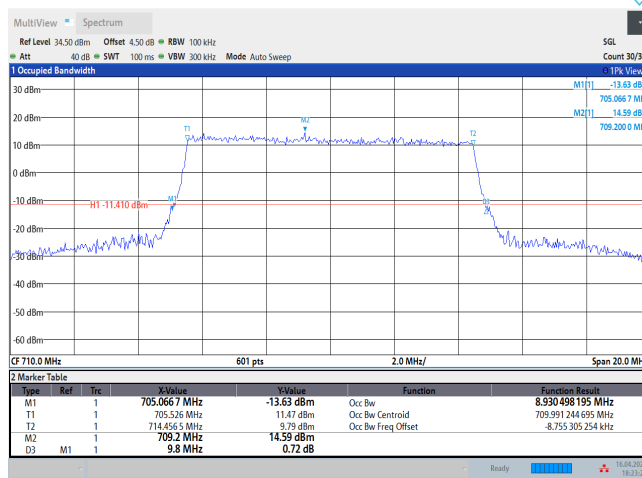
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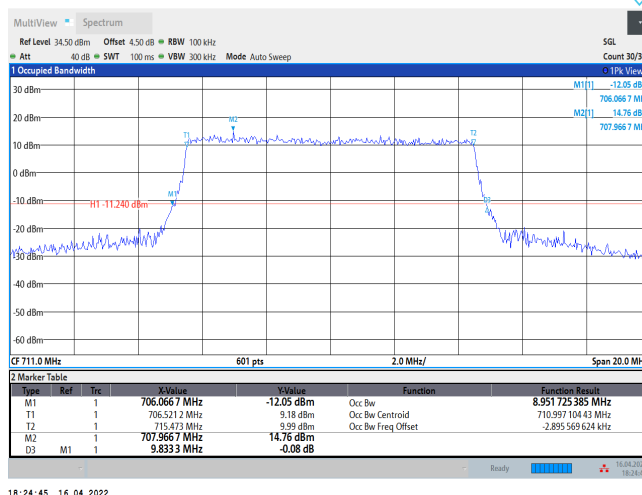
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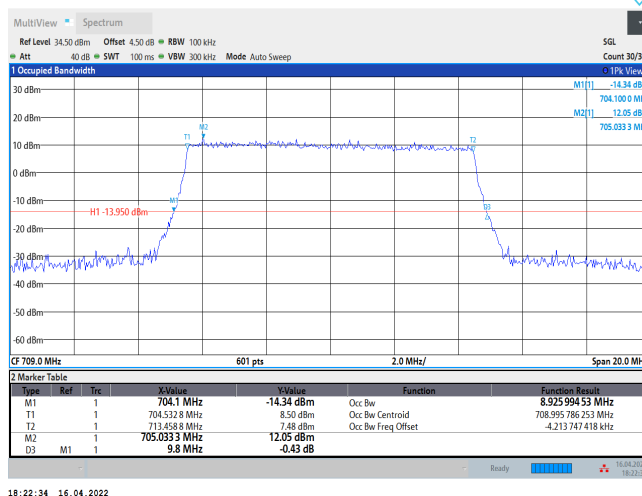
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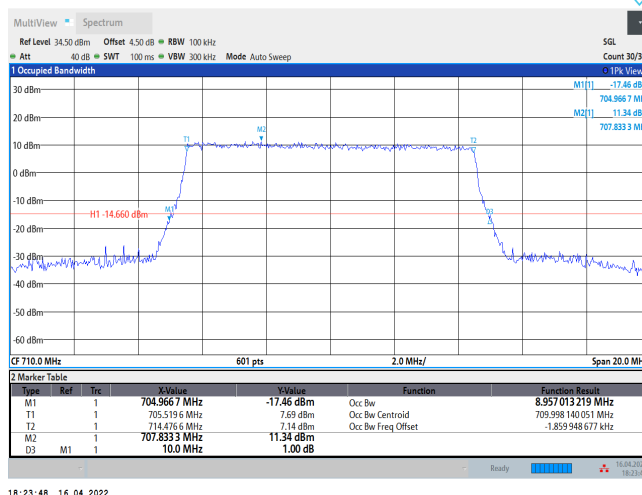
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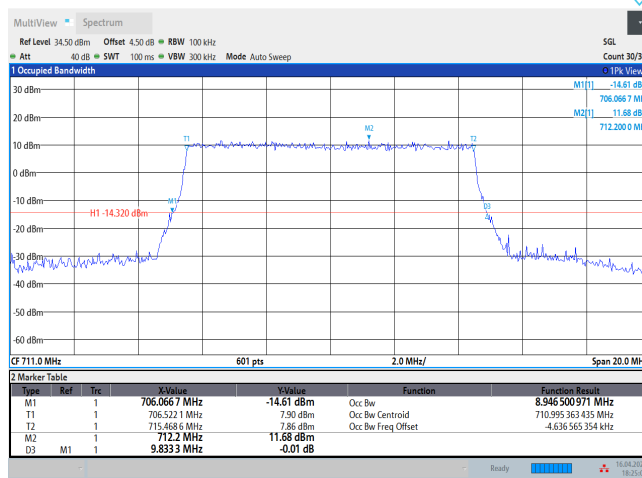
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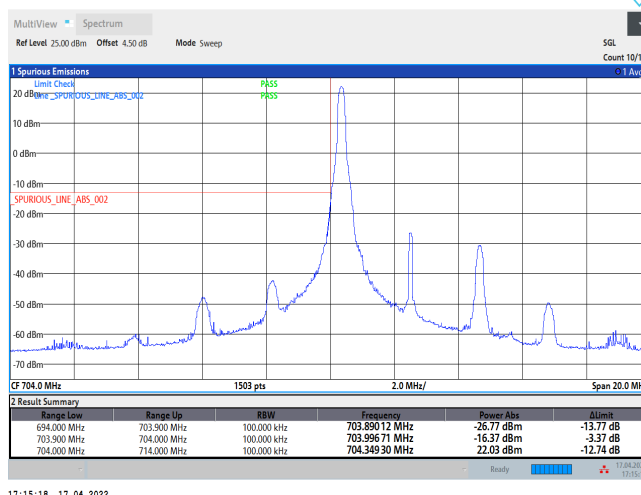
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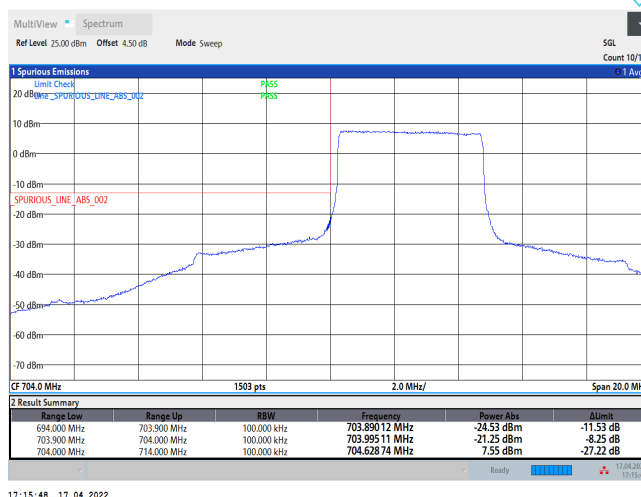
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Test Graphs

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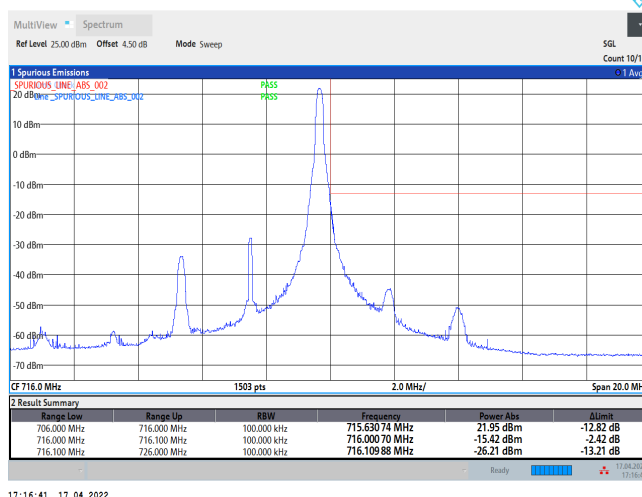
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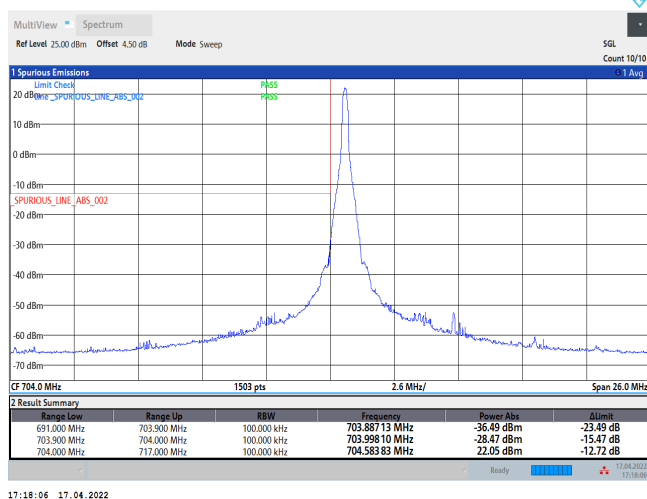
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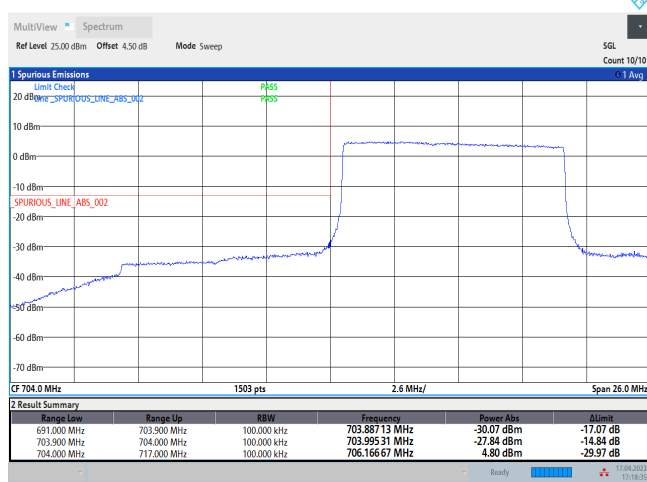
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17:18:06 17.04.2022

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



17:18:35 17.04.2022



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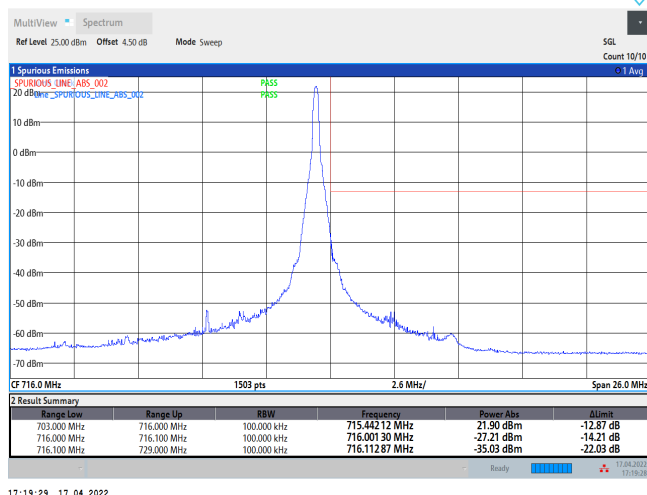
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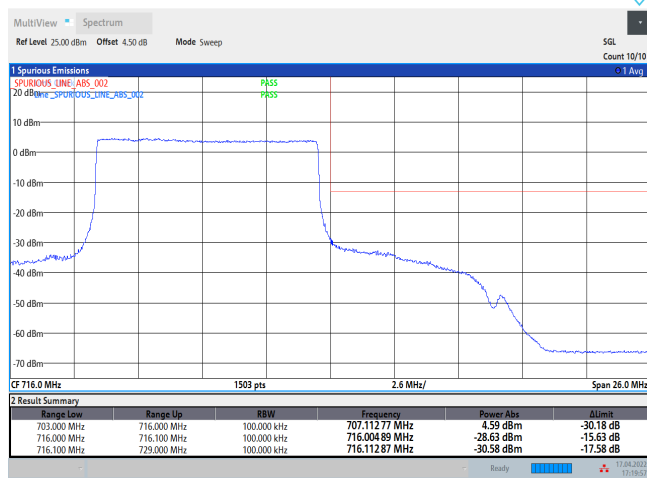
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Band17-10MHz-QPSK-23800-1RB#49



17:19:29 17.04.2022

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



17:19:58 17.04.2022



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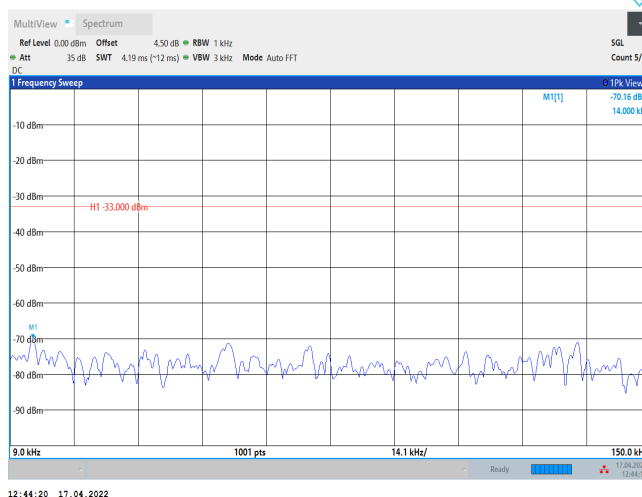
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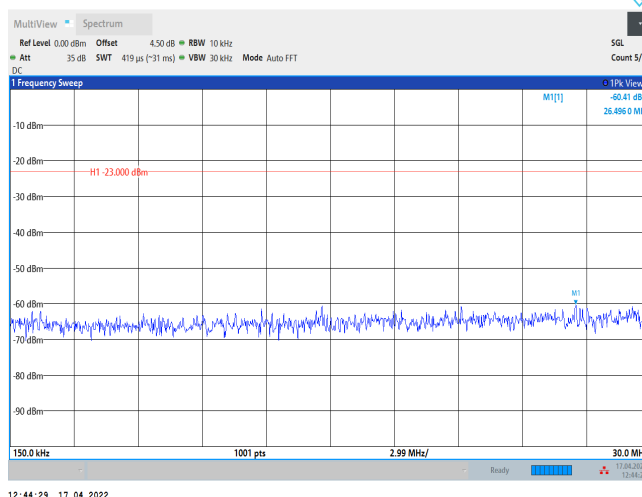
Conducted Spurious Emission

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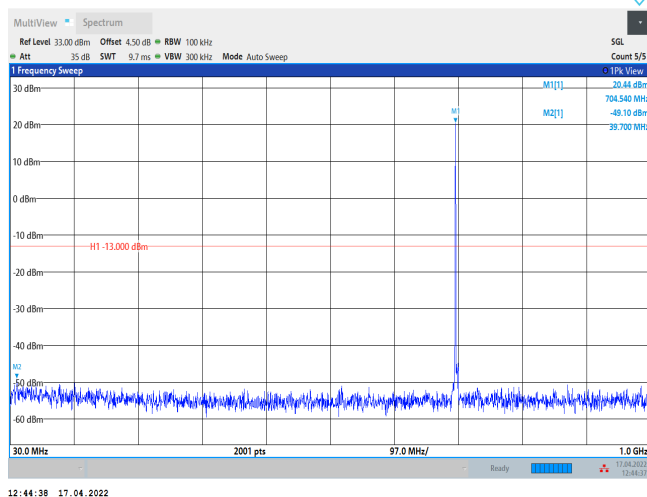
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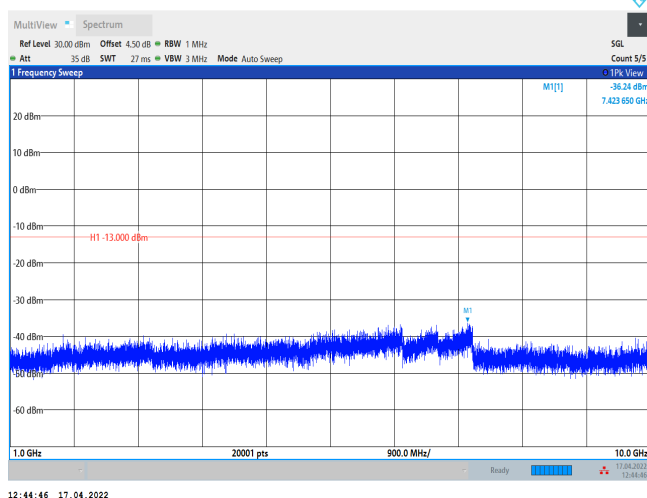
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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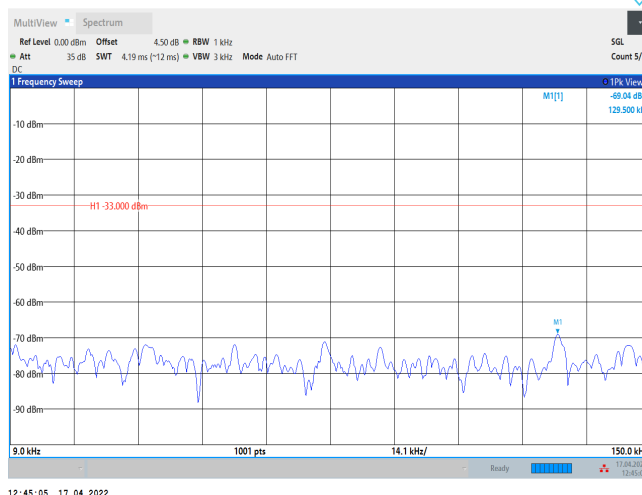
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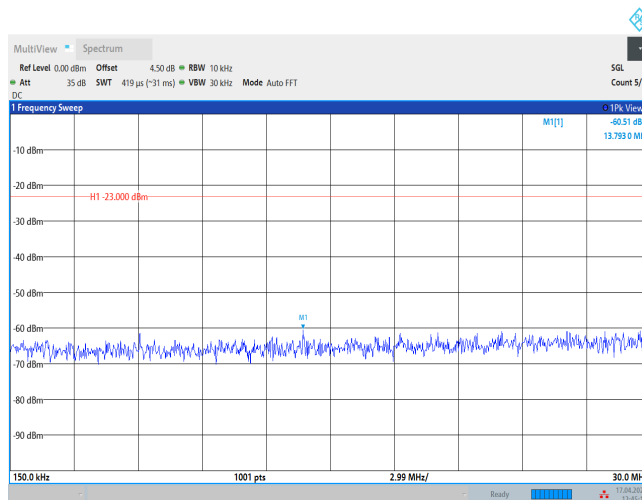
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



12:45:05 17.04.2022

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



12:45:13 17.04.2022



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
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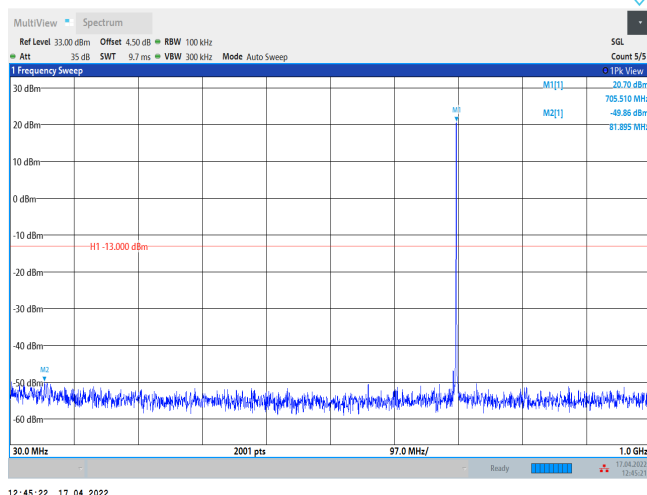
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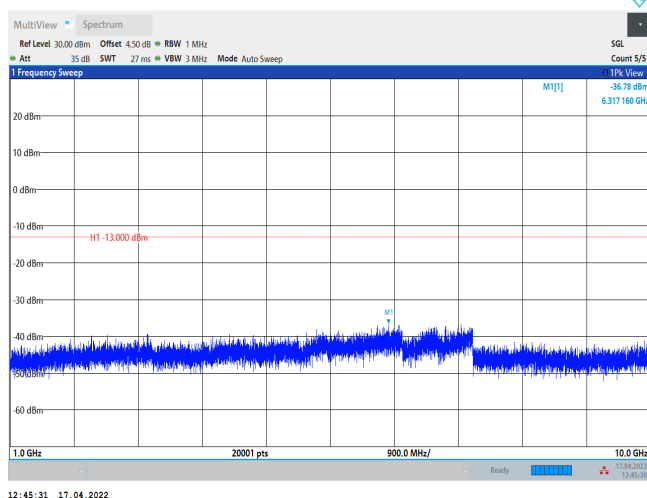
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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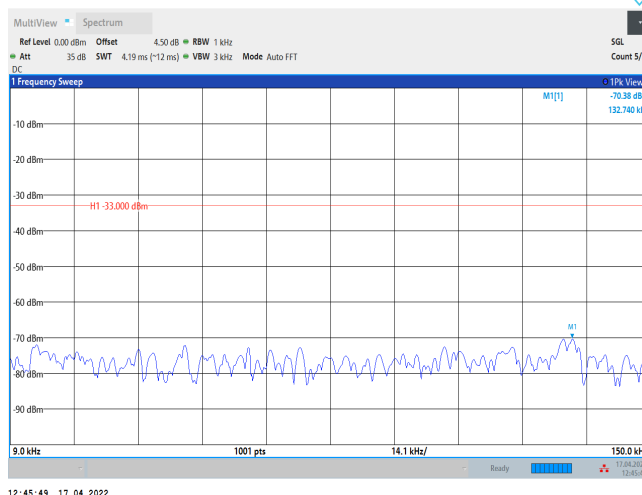
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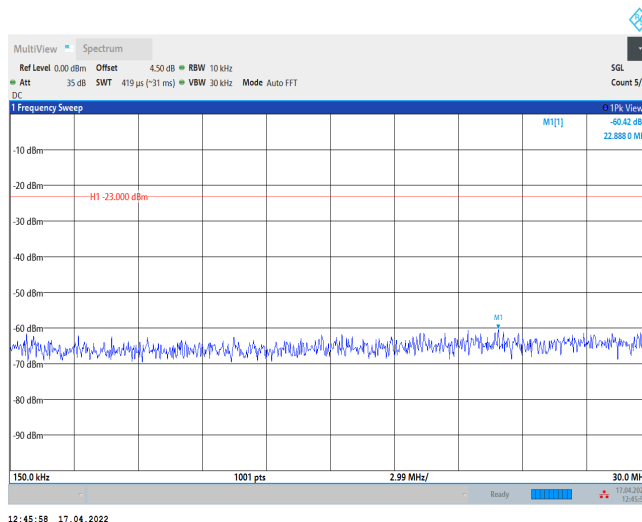
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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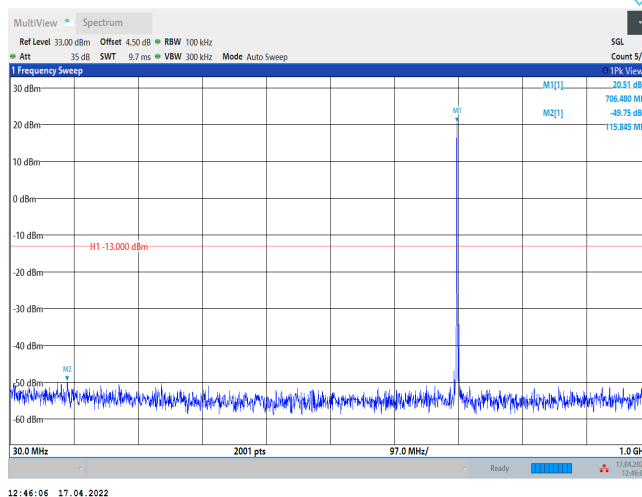
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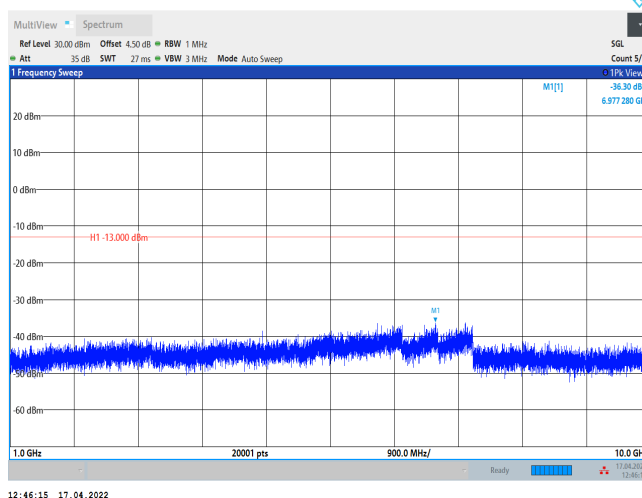
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 17_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.18	58.31	-118.56	-60.25	-13.00	47.25	263	235	Horizontal
2	2113.77	57.19	-115.99	-58.80	-13.00	45.80	251	296	Horizontal
3	2818.36	51.51	-112.98	-61.47	-13.00	48.47	175	341	Horizontal
4	3522.95	50.24	-111.83	-61.59	-13.00	48.59	265	94	Horizontal
5	4227.54	50.76	-109.41	-58.65	-13.00	45.65	241	63	Horizontal
6	4932.13	50.84	-107.93	-57.09	-13.00	44.09	178	47	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.18	54.04	-118.56	-64.52	-13.00	51.52	263	298	Vertical
2	2113.77	51.97	-115.99	-64.02	-13.00	51.02	251	0	Vertical
3	2818.36	51.93	-112.98	-61.05	-13.00	48.05	175	157	Vertical
4	3522.95	50.35	-111.83	-61.48	-13.00	48.48	265	9	Vertical
5	4227.54	48.71	-109.41	-60.70	-13.00	47.70	254	298	Vertical
6	4932.13	50.02	-107.93	-57.91	-13.00	44.91	144	221	Vertical



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Test Band = LTE Band 17_ TM1**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.18	54.98	-118.55	-63.57	-13.00	50.57	263	247	Horizontal
2	2116.77	59.30	-115.98	-56.68	-13.00	43.68	251	155	Horizontal
3	2822.36	51.39	-112.97	-61.58	-13.00	48.58	174	2	Horizontal
4	3527.95	51.01	-111.81	-60.80	-13.00	47.80	196	340	Horizontal
5	4233.54	49.33	-109.40	-60.07	-13.00	47.07	265	360	Horizontal
6	4939.13	49.51	-107.90	-58.39	-13.00	45.39	241	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.18	52.22	-118.55	-66.33	-13.00	53.33	263	142	Vertical
2	2116.77	52.86	-115.98	-63.12	-13.00	50.12	241	235	Vertical
3	2822.36	50.47	-112.97	-62.50	-13.00	49.50	175	329	Vertical
4	3527.95	50.35	-111.81	-61.46	-13.00	48.46	265	33	Vertical
5	4233.54	47.78	-109.40	-61.62	-13.00	48.62	255	251	Vertical
6	4939.13	49.81	-107.90	-58.09	-13.00	45.09	254	33	Vertical



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Test Band = LTE Band 17_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	55.87	-118.54	-62.67	-13.00	49.67	263	247	Horizontal
2	2119.5556	58.61	-115.97	-57.36	-13.00	44.36	251	155	Horizontal
3	2826.36	50.67	-112.96	-62.29	-13.00	49.29	176	216	Horizontal
4	3532.95	50.41	-111.79	-61.38	-13.00	48.38	265	360	Horizontal
5	4239.54	50.41	-109.39	-58.98	-13.00	45.98	284	309	Horizontal
6	4946.13	50.20	-107.87	-57.67	-13.00	44.67	179	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	54.29	-118.54	-64.25	-13.00	51.25	263	174	Vertical
2	2119.77	52.93	-115.97	-63.04	-13.00	50.04	251	158	Vertical
3	2826.36	50.46	-112.96	-62.50	-13.00	49.50	174	236	Vertical
4	3532.95	50.53	-111.79	-61.26	-13.00	48.26	142	299	Vertical
5	4239.54	49.24	-109.39	-60.15	-13.00	47.15	263	331	Vertical
6	4946.13	49.85	-107.87	-58.02	-13.00	45.02	241	9	Vertical



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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	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	0.50	0.000704	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-0.20	-0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.70	0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-1.00	-0.001408	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.20	0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.10	0.000141	PASS

The End



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