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Appendix B.9

LTE Band 17



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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	23.95	21.6	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.84	21.49	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.78	21.43	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.85	20.5	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.89	21.54	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.14	21.79	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.74	21.39	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.90	20.55	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.97	21.62	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.85	21.5	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.71	21.36	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.97	20.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.08	20.73	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.02	20.67	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.96	20.61	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.90	19.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.94	20.59	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.01	20.66	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.97	20.62	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.85	19.5	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.06	20.71	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.87	20.52	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.83	20.48	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.89	19.54	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.06	19.71	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.94	19.59	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.86	19.51	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.93	18.58	34.77	PASS



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Band17	5MHz	64QAM	23790	1RB#0	21.88	19.53	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.08	19.73	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.95	19.6	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.83	18.48	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.10	19.75	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.86	19.51	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.96	19.61	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.88	18.53	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.77	16.42	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	19.02	16.67	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.80	16.45	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.90	16.55	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.97	16.62	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.87	16.52	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.94	16.59	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.80	16.45	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.83	16.48	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	19.07	16.72	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.88	16.53	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.91	16.56	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.96	21.61	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.86	21.51	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.64	21.29	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.92	20.57	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.87	21.52	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.90	21.55	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.74	21.39	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.85	20.5	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.79	21.44	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.84	21.49	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.71	21.36	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.84	20.49	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.89	20.54	34.77	PASS



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Band17	10MHz	16QAM	23780	1RB#24	23.05	20.7	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.83	20.48	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.90	19.55	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.93	20.58	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.07	20.72	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.96	20.61	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.84	19.49	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.95	20.6	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.11	20.76	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.95	20.6	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.80	19.45	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.23	19.88	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.96	19.61	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.85	19.5	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.90	18.55	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.97	19.62	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.02	19.67	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.11	19.76	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.89	18.54	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.90	19.55	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.97	19.62	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.90	19.55	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.86	18.51	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.88	16.53	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	19.02	16.67	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.87	16.52	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.95	16.6	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.88	16.53	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	19.02	16.67	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.91	16.56	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.86	16.51	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	19.00	16.65	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.93	16.58	34.77	PASS



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Band17	10MHz	256QAM	23800	1RB#49	18.79	16.44	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.83	16.48	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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Test Graphs

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



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



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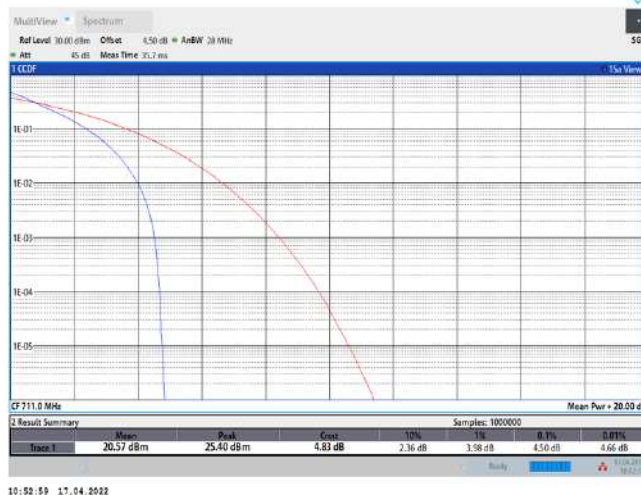
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Band17-10MHz-16QAM-23780-50RB#0



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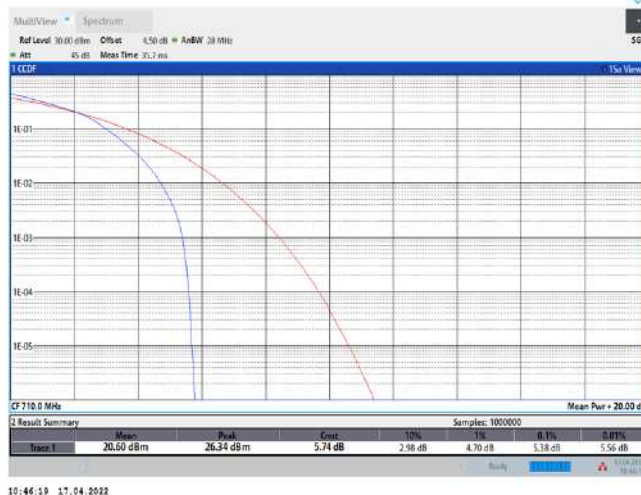
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Band17-10MHz-16QAM-23790-50RB#0



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



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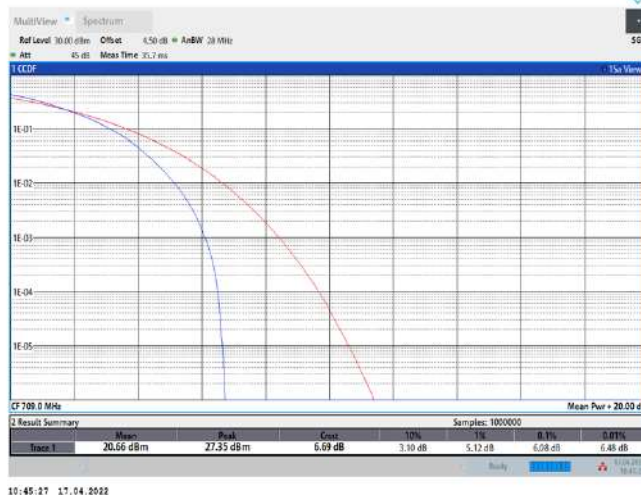
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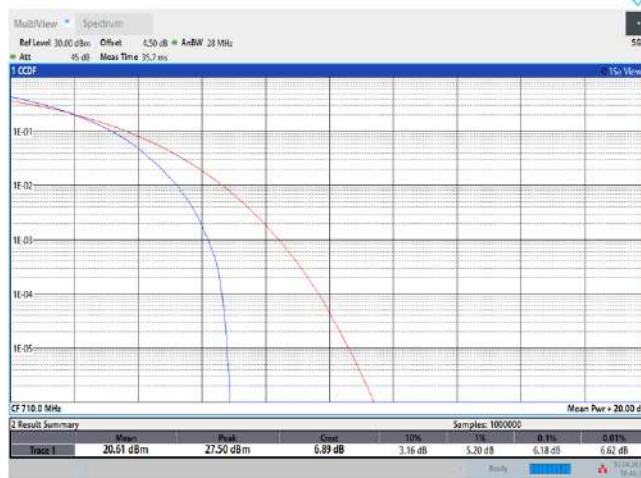
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Band17-10MHz-64QAM-23780-50RB#0



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



10:46:35 17.04.2022



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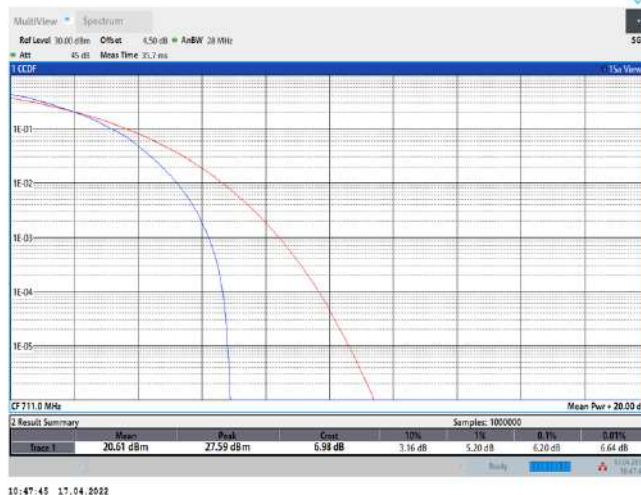
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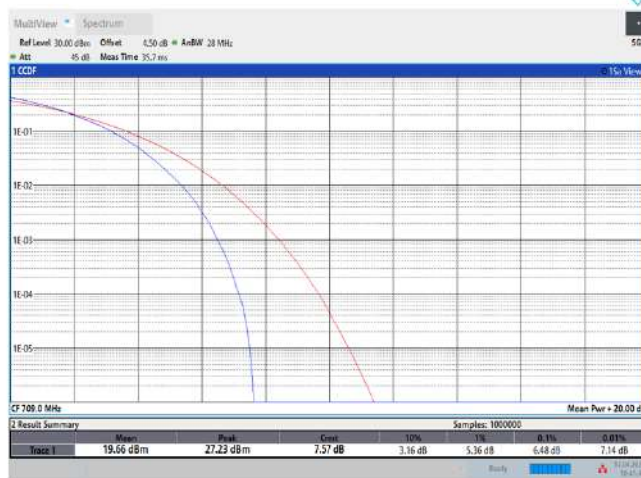
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Band17-10MHz-64QAM-23800-50RB#0



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



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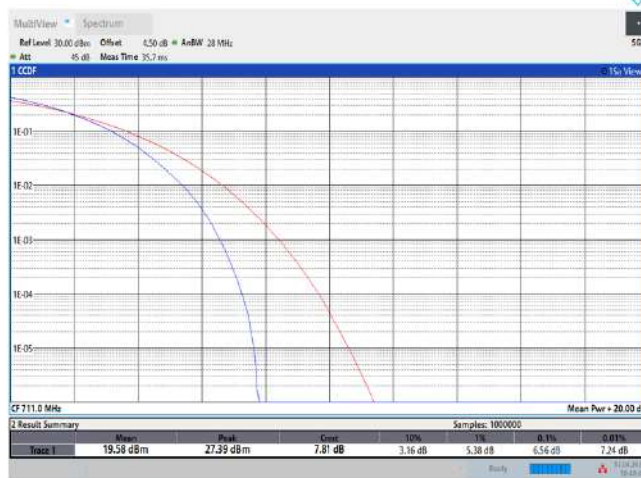
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Band17-10MHz-256QAM-23790-50RB#0



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Band17-10MHz-256QAM-23800-50RB#0



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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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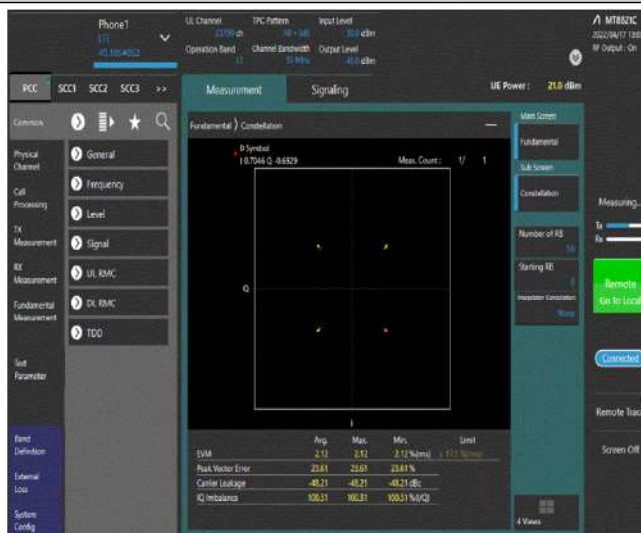
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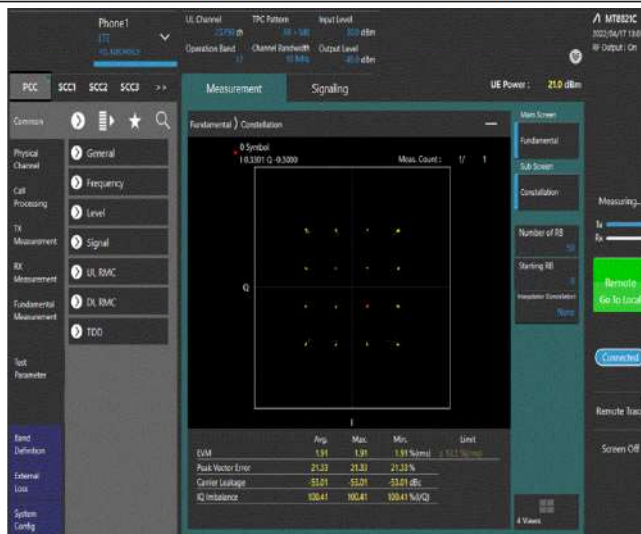
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Test Graphs

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



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

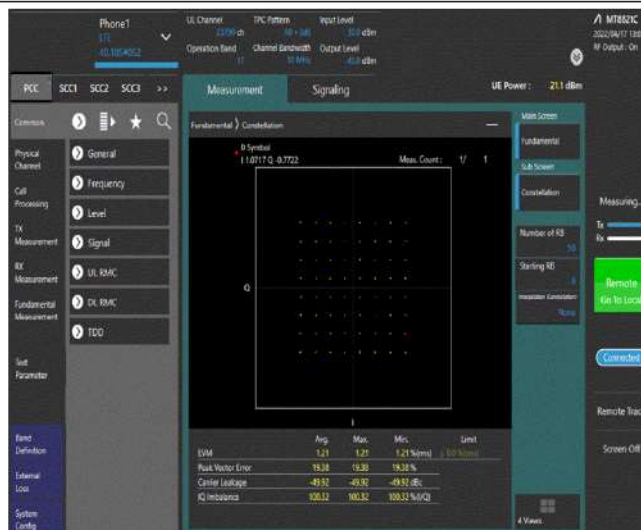


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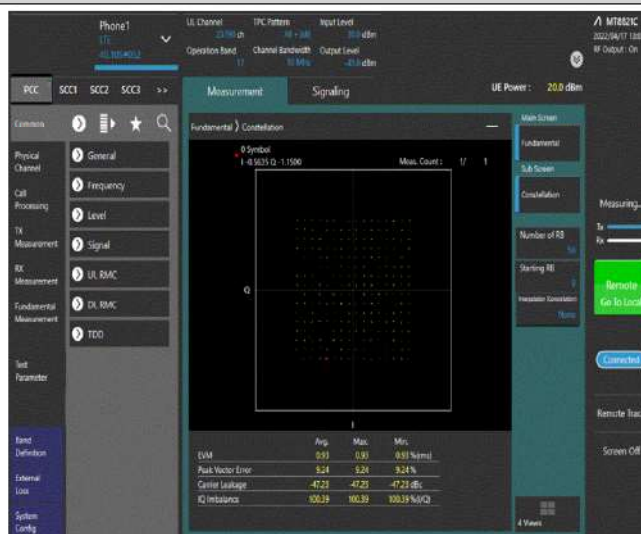
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Band17-10MHz-64QAM-23790-50RB#0



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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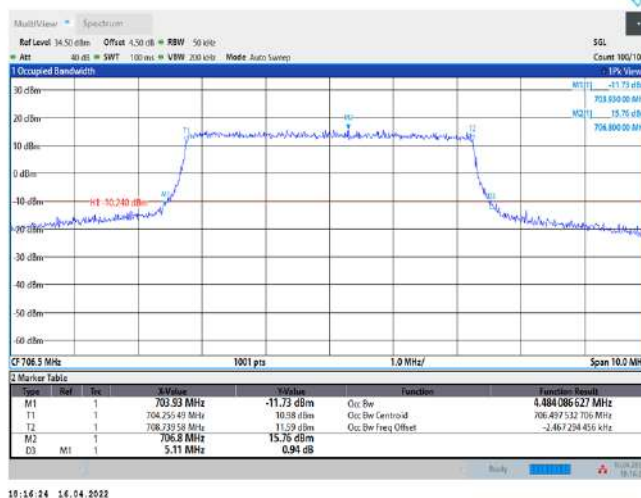
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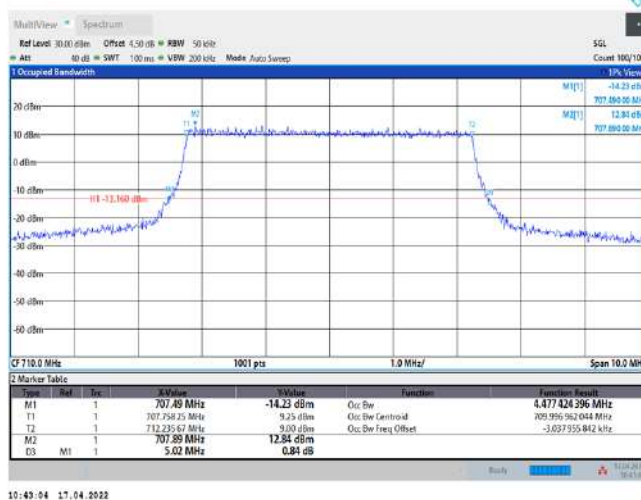
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Test Graphs

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



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



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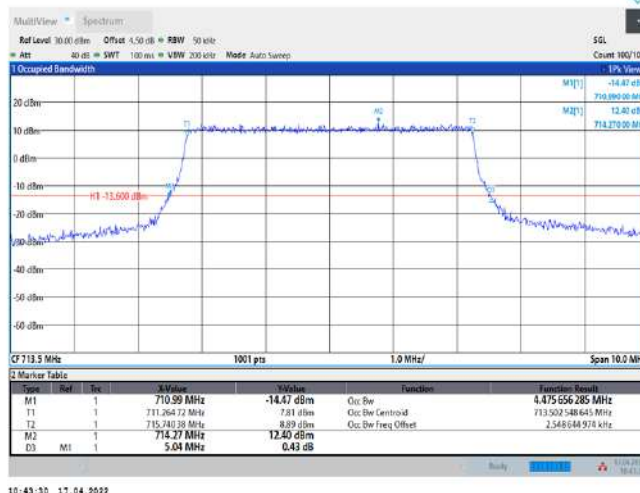
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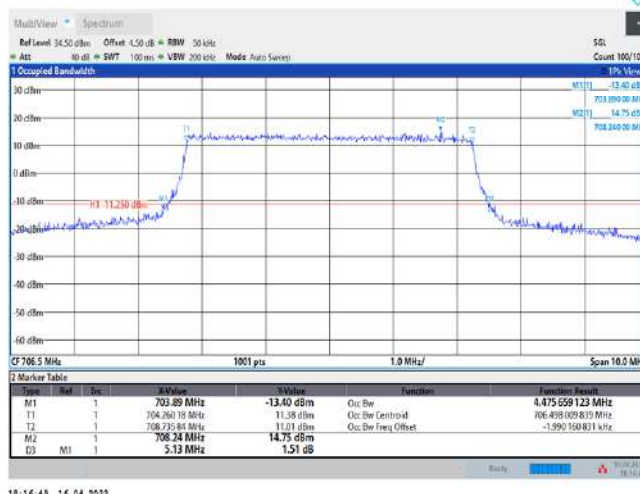
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Band17-5MHz-QPSK-23825-25RB#0



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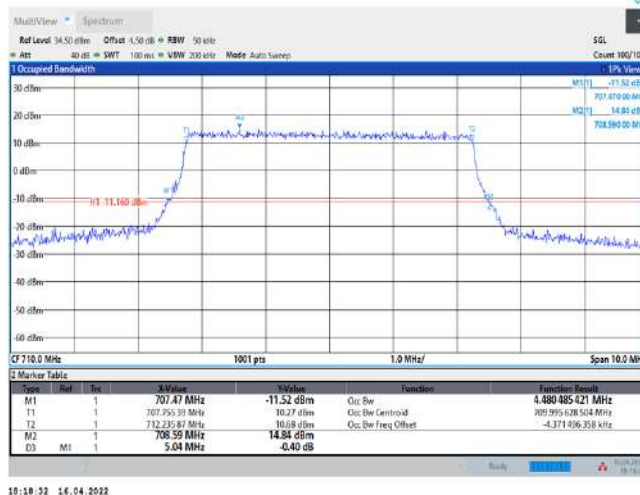
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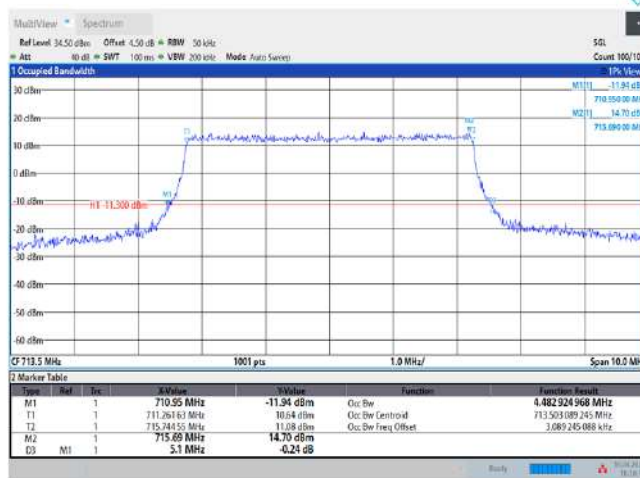
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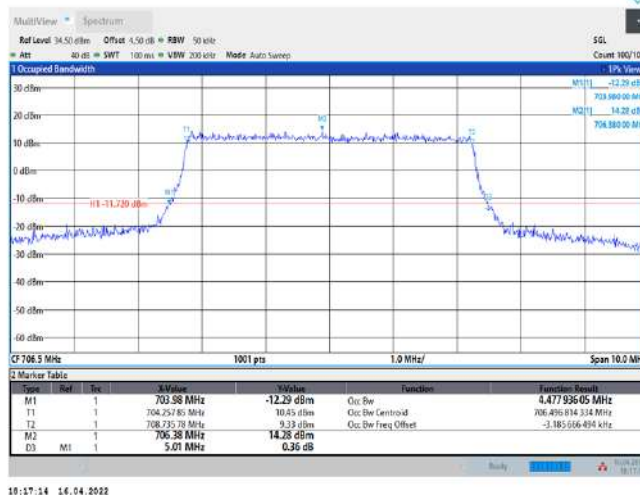
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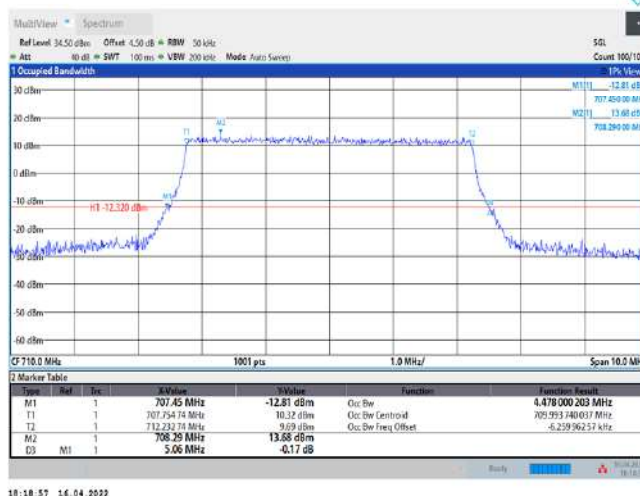
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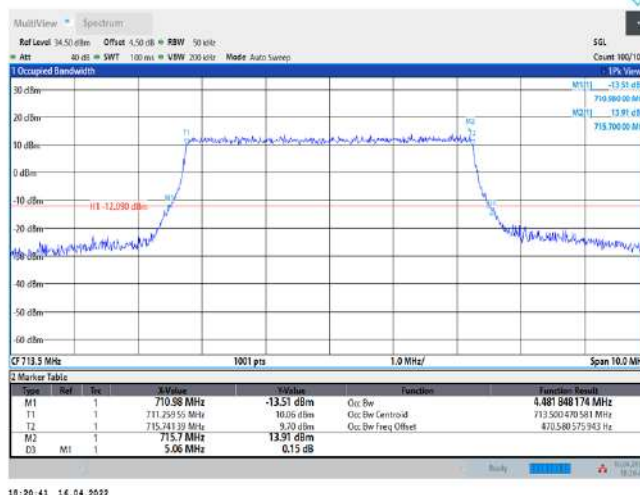
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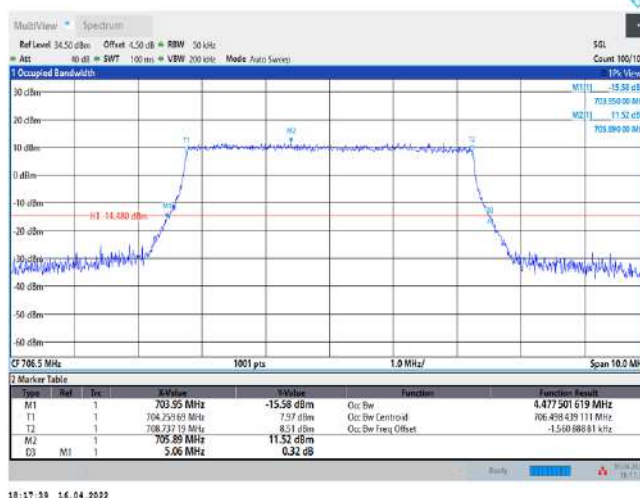
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Band17-5MHz-64QAM-23825-25RB#0



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



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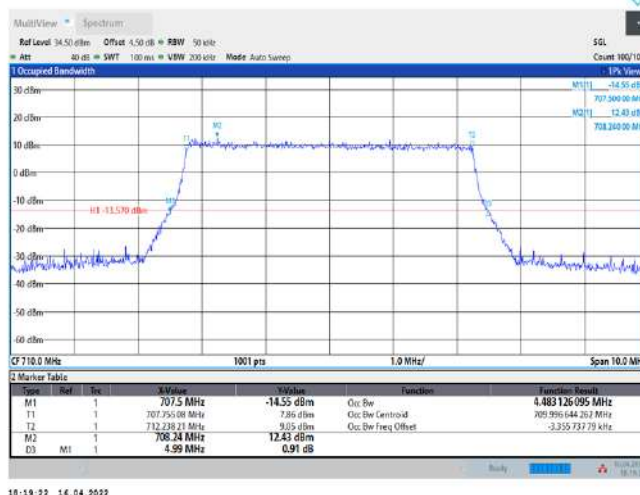
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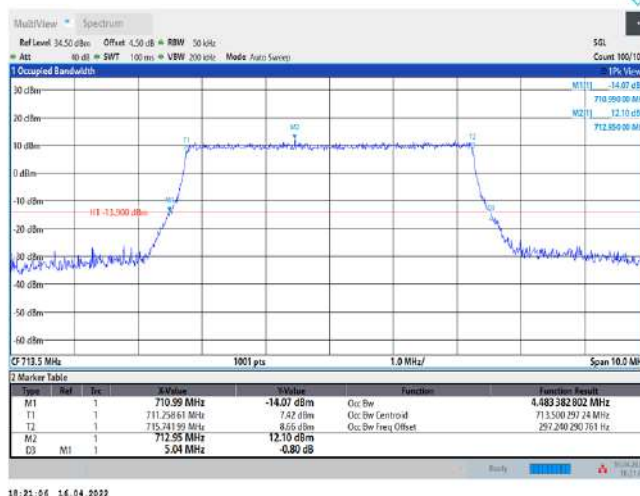
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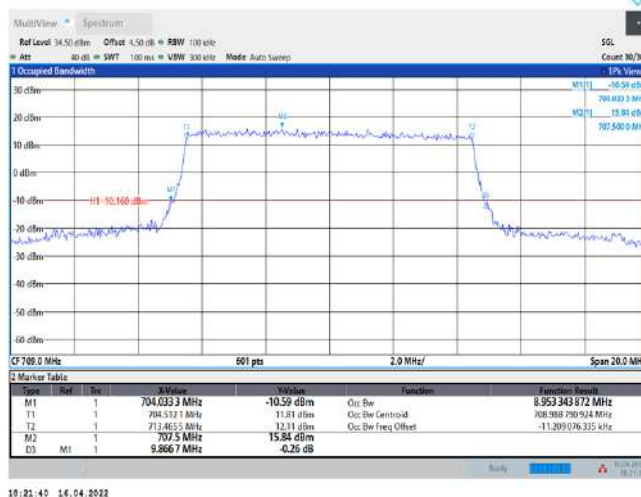
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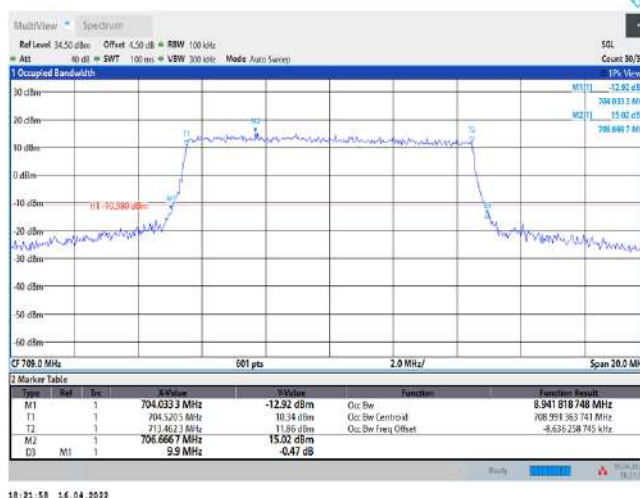
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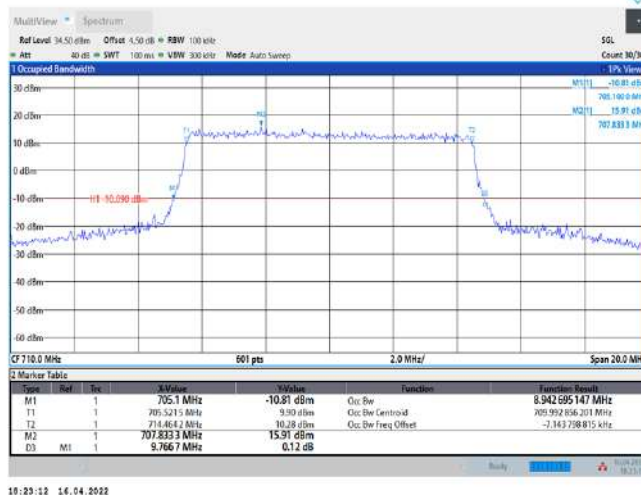
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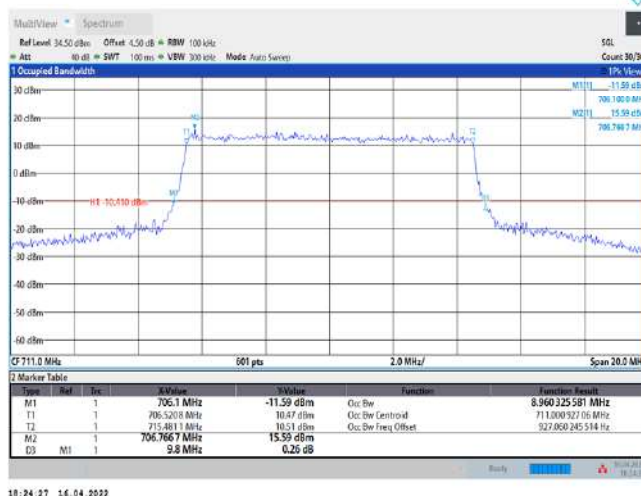
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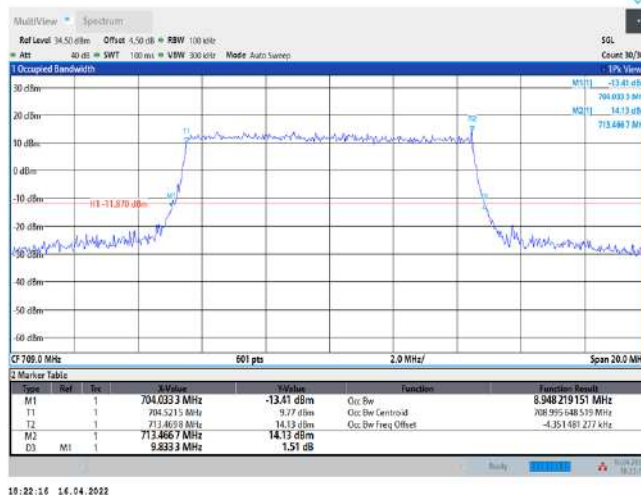
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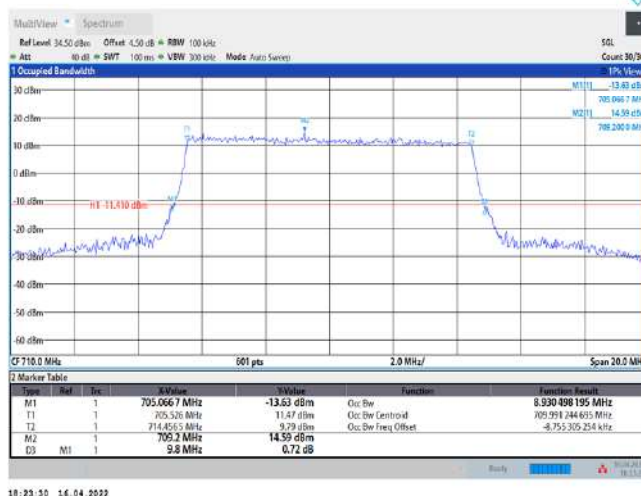
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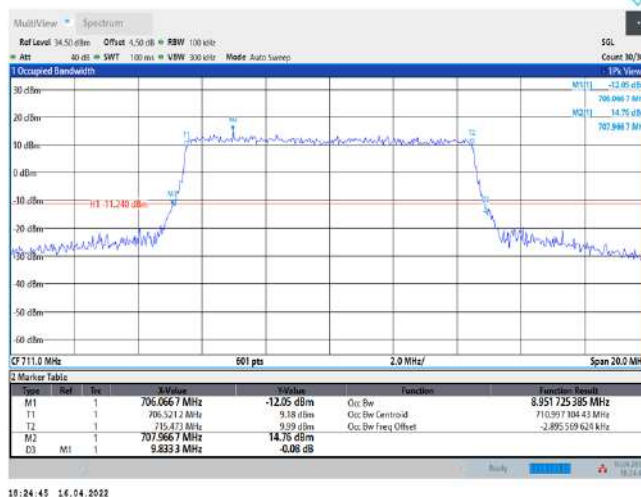
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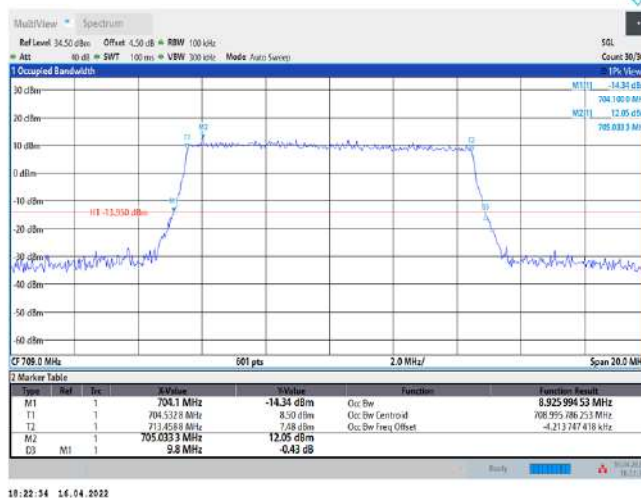
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Band17-10MHz-256QAM-23780-50RB#0



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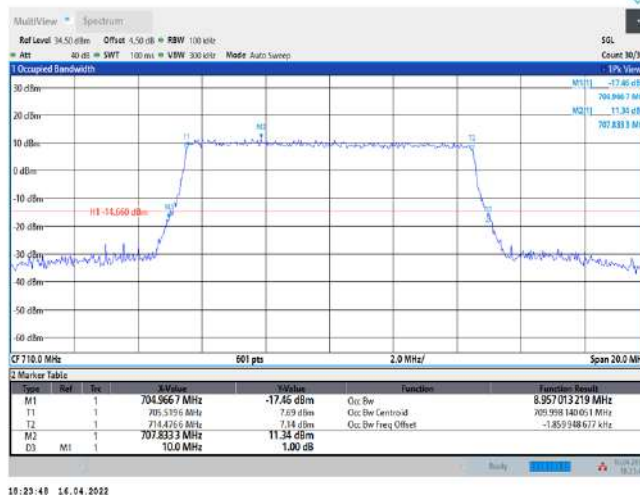
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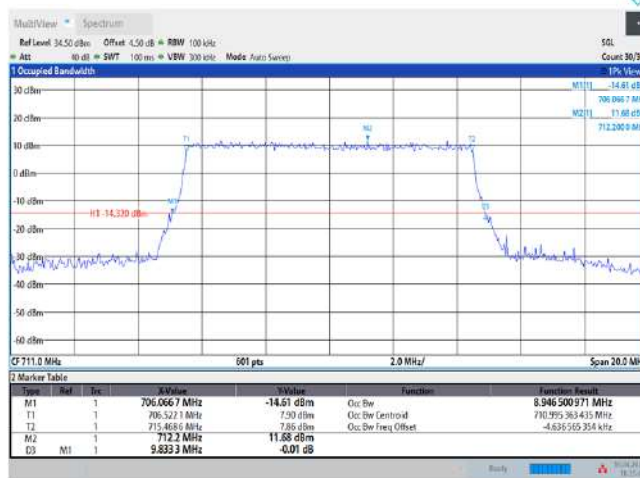
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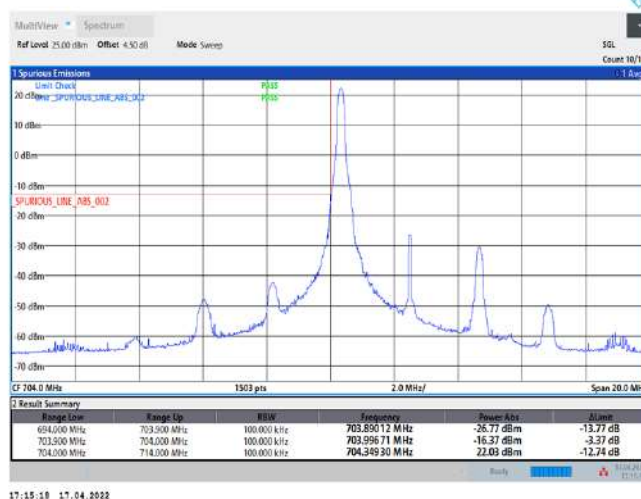
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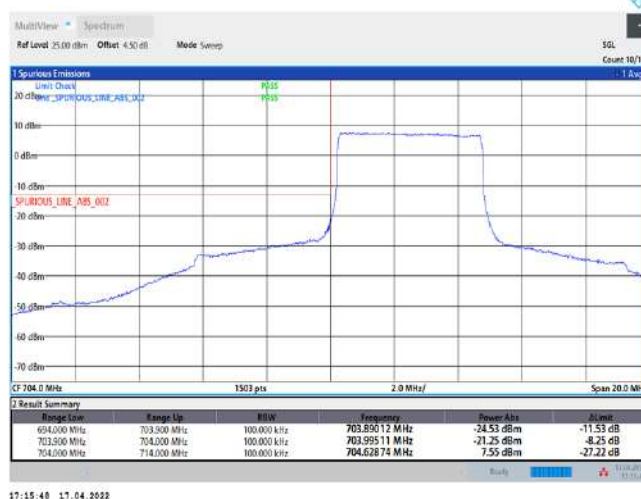
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Test Graphs

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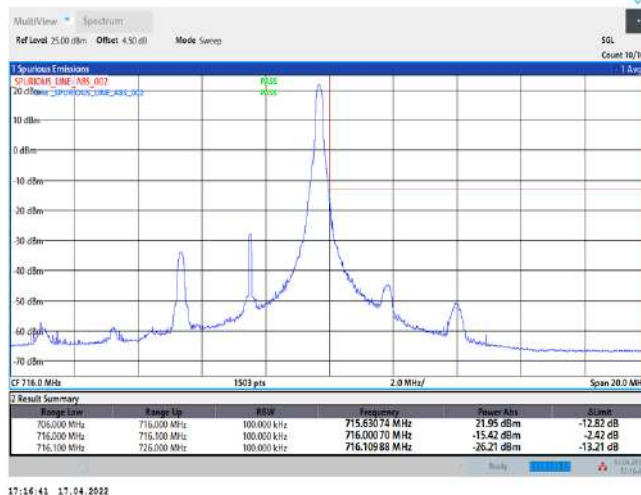
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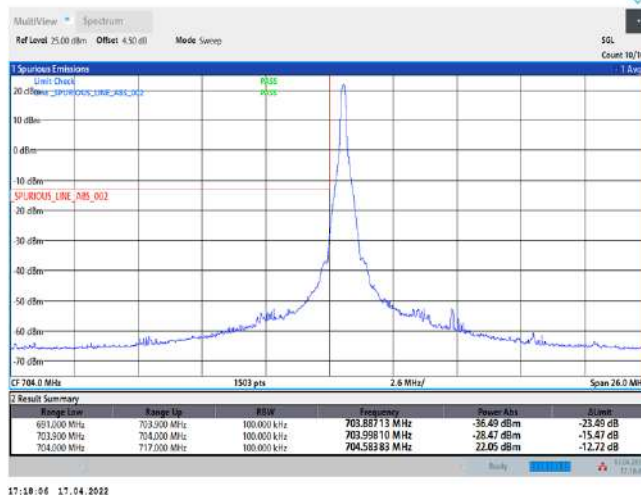
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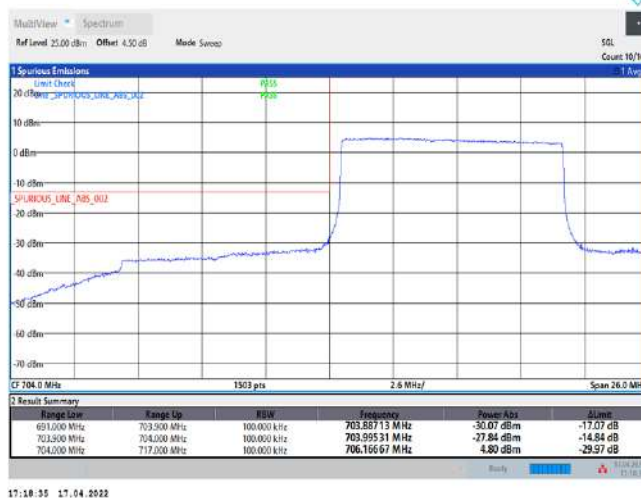
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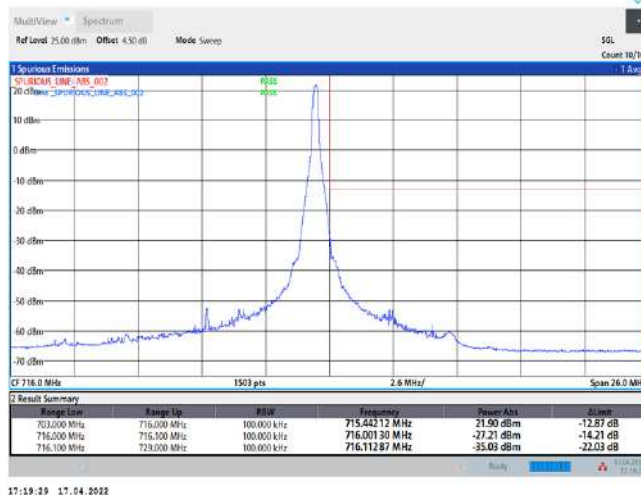
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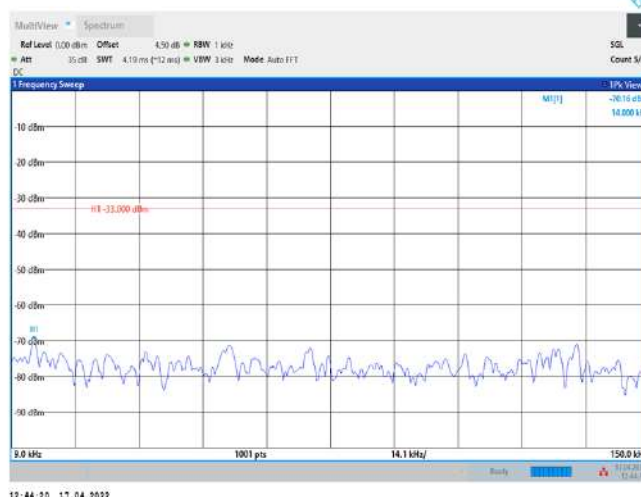
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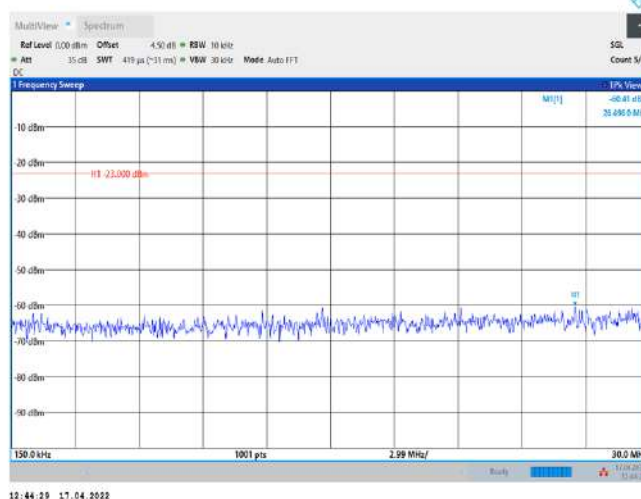
Conducted Spurious Emission

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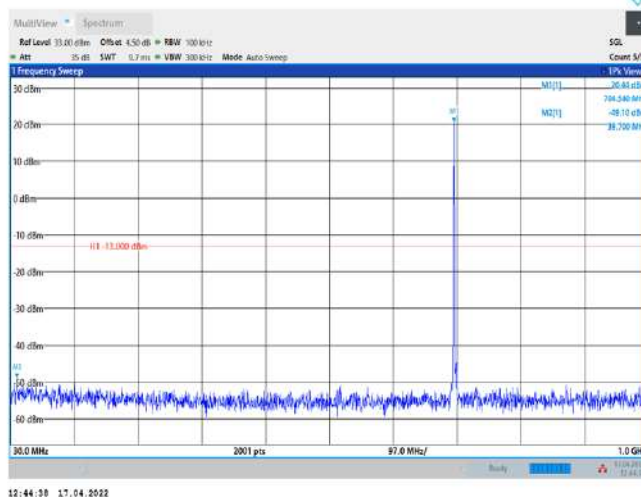
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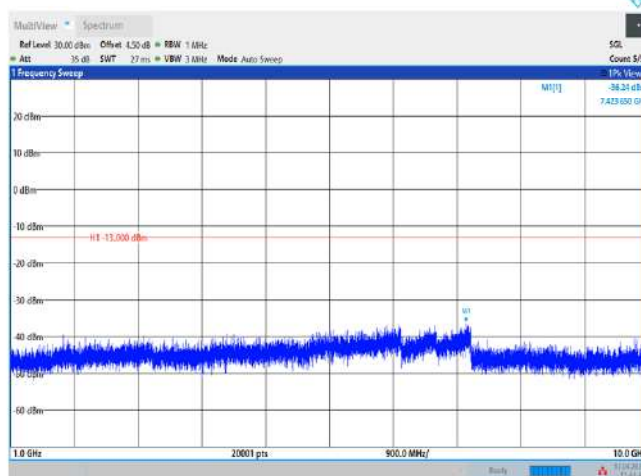
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



12:44:38 17.04.2022

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



12:44:46 17.04.2022



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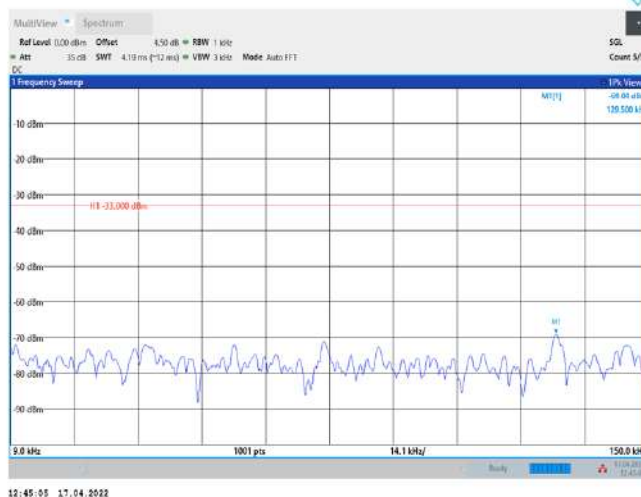
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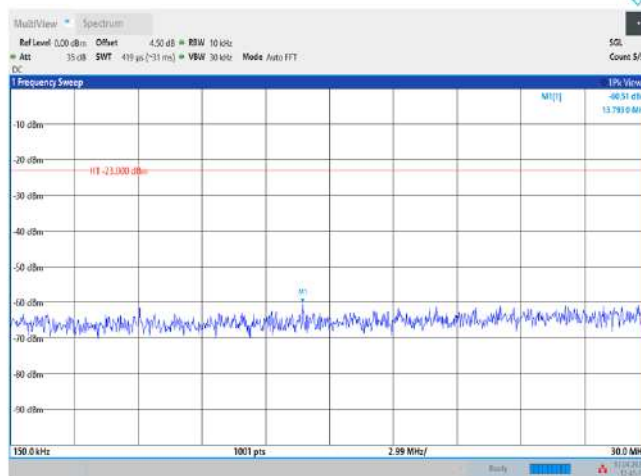
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



12:45:05 17.04.2022

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



12:45:13 17.04.2022



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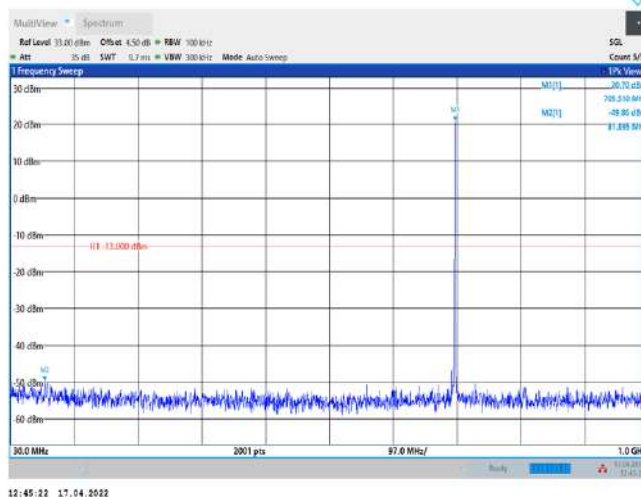
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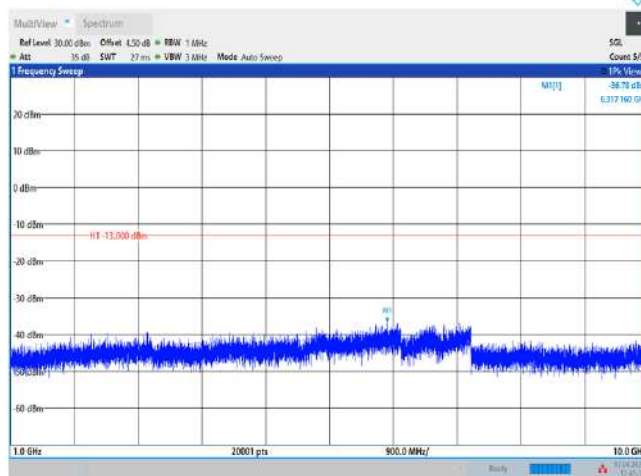
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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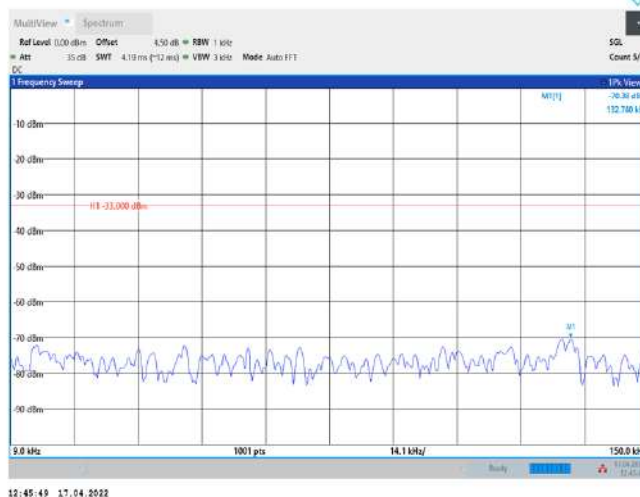
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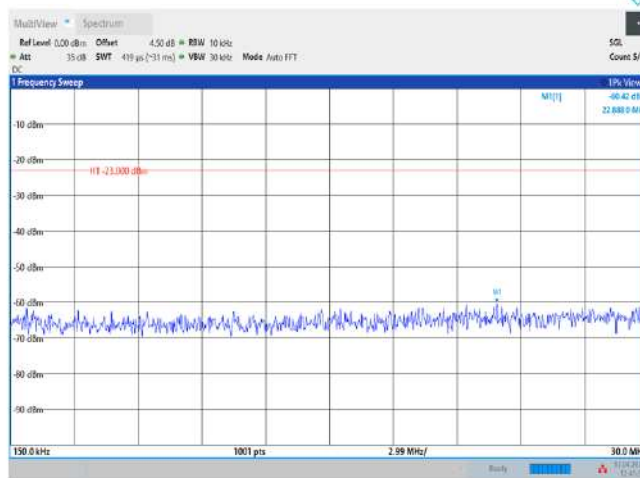
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



12:45:49 17.04.2022

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



12:45:58 17.04.2022



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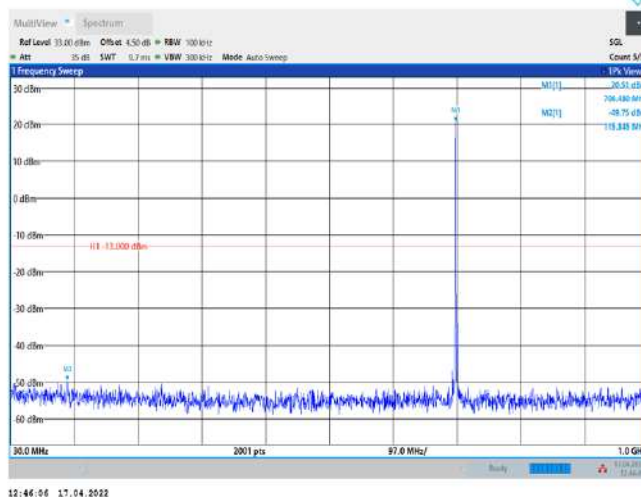
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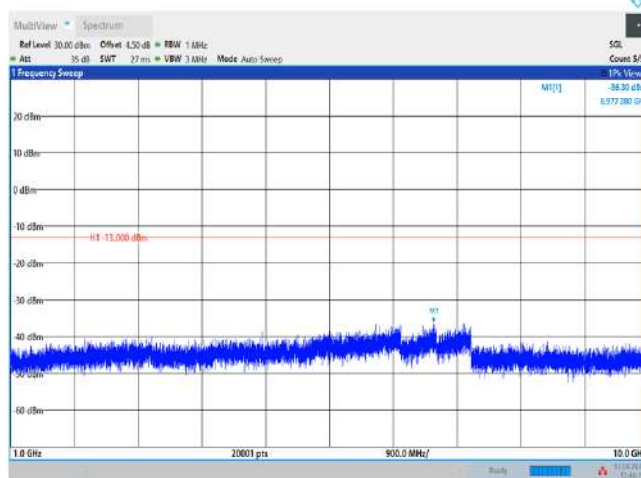
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



12:44:15 17.04.2022



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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	2119.555	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

---End of Attachment---



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