

# Appendix B.9

## LTE Band 17



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant41

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.18	15.26	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.22	15.30	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.09	15.17	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.14	14.22	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.12	15.20	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.08	15.16	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.05	15.13	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.00	14.08	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.23	15.31	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.08	15.16	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.84	14.92	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.91	13.99	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.25	14.33	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.31	14.39	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.03	14.11	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.11	13.19	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.13	14.21	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.13	14.21	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.16	14.24	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.02	13.10	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.05	14.13	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.10	14.18	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.95	14.03	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.93	13.01	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.36	13.44	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.28	13.36	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#24	22.08	13.16	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	21.10	12.18	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.14	13.22	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.28	13.36	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.11	13.19	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	21.03	12.11	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.25	13.33	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.17	13.25	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.09	13.17	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.93	12.01	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	19.07	10.15	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	19.16	10.24	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	19.19	10.27	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	19.12	10.20	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	19.24	10.32	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	19.22	10.30	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	19.23	10.31	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	19.06	10.14	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.99	10.07	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	19.09	10.17	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.97	10.05	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	19.00	10.08	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.12	15.20	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.06	15.14	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.93	15.01	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.12	14.20	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.15	15.23	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.09	15.17	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.97	15.05	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.07	14.15	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.21	15.29	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.00	15.08	34.77	PASS



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Report No.: SEWM2311000447RG01

Rev.: 01

Page: 4 of 31

Band17	10MHz	QPSK	23800	1RB#49	23.96	15.04	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.02	14.10	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.18	14.26	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.34	14.42	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.06	14.14	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.17	13.25	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.30	14.38	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.29	14.37	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.41	14.49	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.00	13.08	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.05	14.13	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.16	14.24	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.99	14.07	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.03	13.11	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.26	13.34	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.38	13.46	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.06	13.14	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	21.17	12.25	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.19	13.27	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.31	13.39	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.18	13.26	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.99	12.07	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.13	13.21	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.19	13.27	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.16	13.24	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.97	12.05	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	19.17	10.25	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	19.23	10.31	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	19.16	10.24	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	19.14	10.22	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	19.08	10.16	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	19.10	10.18	34.77	PASS



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Rev.: 01

Page: 5 of 31

Band17	10MHz	256QAM	23790	1RB#49	18.97	10.05	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.99	10.07	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	19.16	10.24	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	19.17	10.25	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.96	10.04	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	19.04	10.12	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	5.12	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	6.08	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	6.12	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.04	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.10	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.06	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.62	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.62	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.64	13	PASS
Band17	10MHz	256QAM	23780	50RB#0	6.94	13	PASS
Band17	10MHz	256QAM	23790	50RB#0	6.98	13	PASS
Band17	10MHz	256QAM	23800	50RB#0	6.94	13	PASS



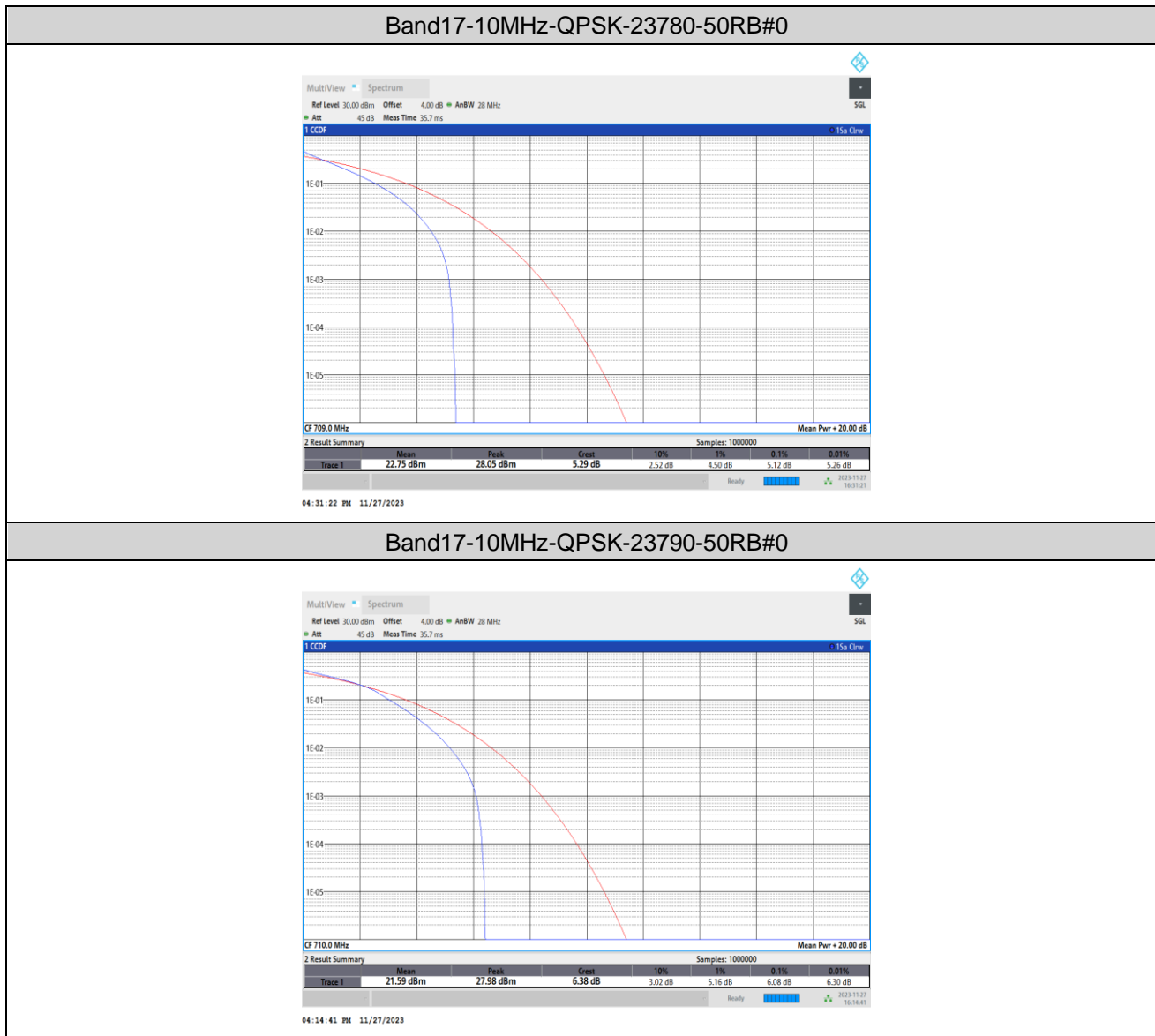
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Test Graphs

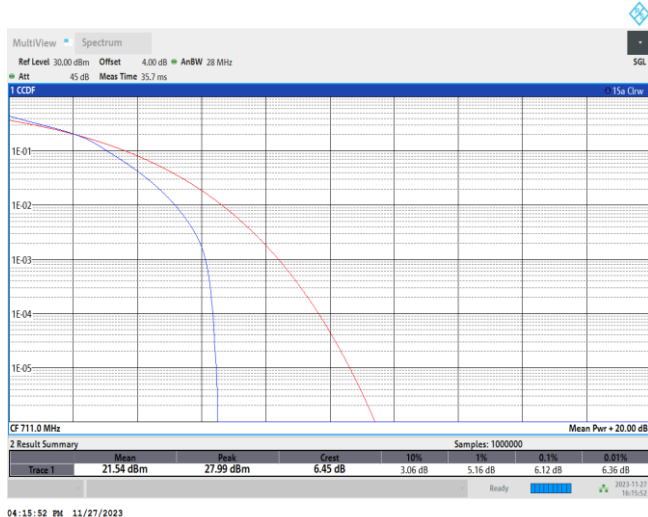


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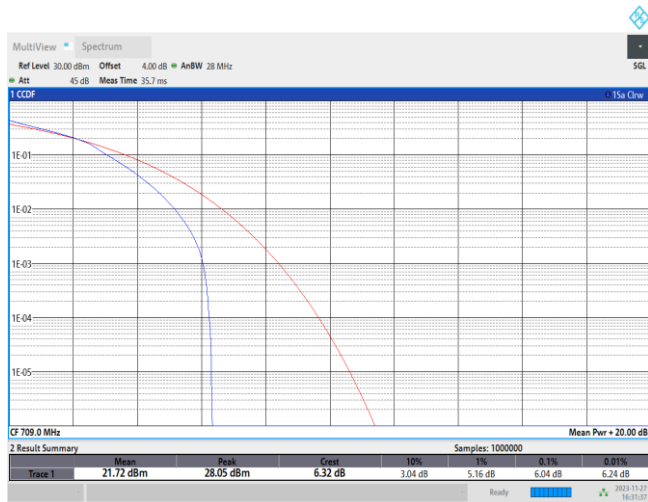
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Band17-10MHz-QPSK-23800-50RB#0



04:15:52 PM 11/27/2023

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



04:31:38 PM 11/27/2023



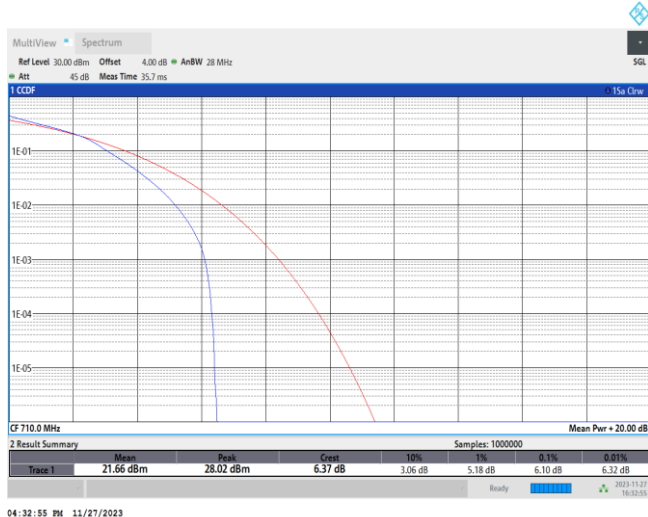
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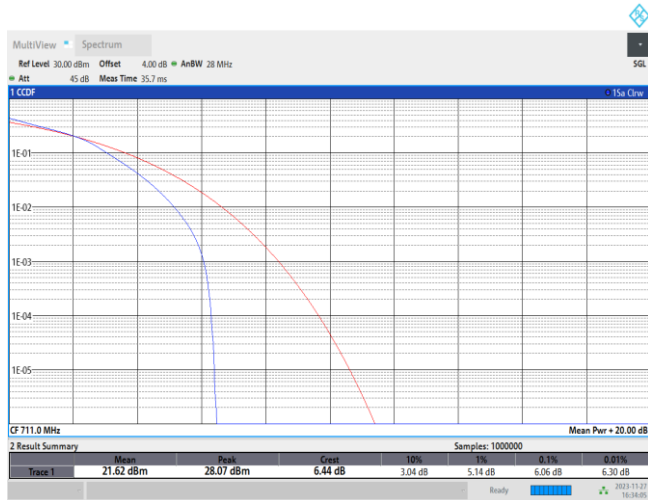


Band17-10MHz-16QAM-23790-50RB#0



04:32:55 PM 11/27/2023

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



04:34:06 PM 11/27/2023

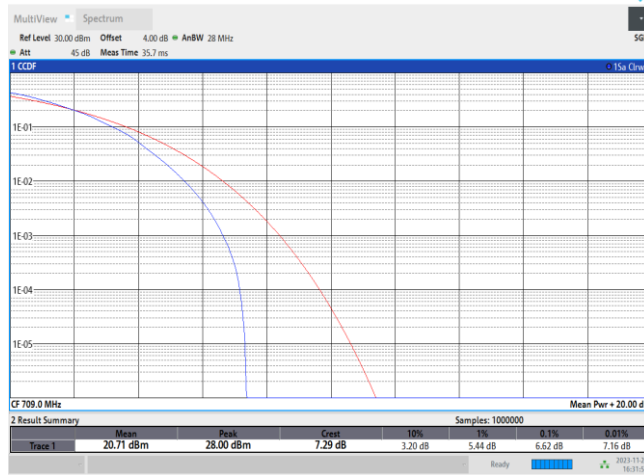


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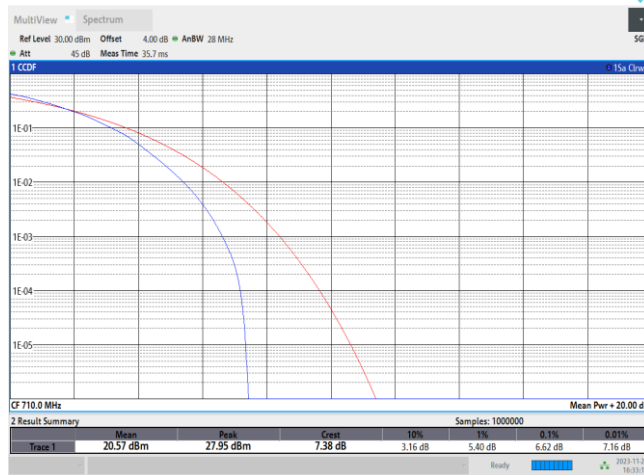
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Band17-10MHz-64QAM-23780-50RB#0



04:31:55 PM 11/27/2023

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



04:33:12 PM 11/27/2023

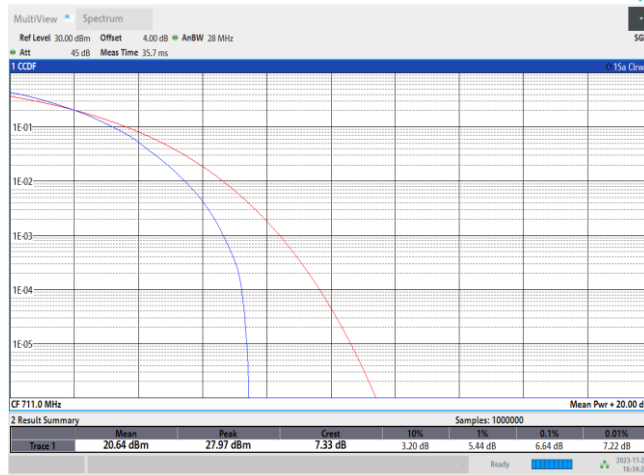


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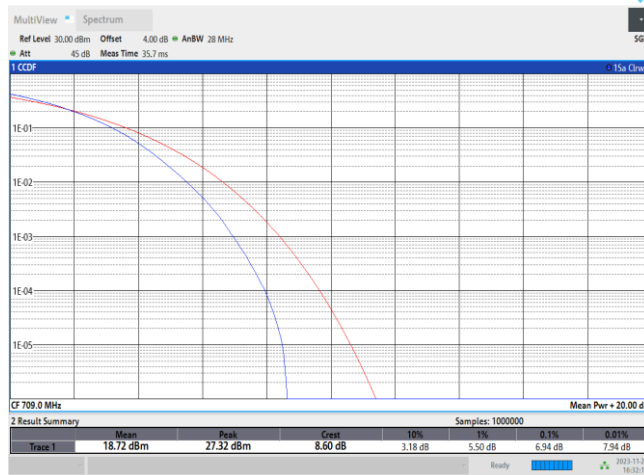
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Band17-10MHz-64QAM-23800-50RB#0



04:34:23 PM 11/27/2023

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



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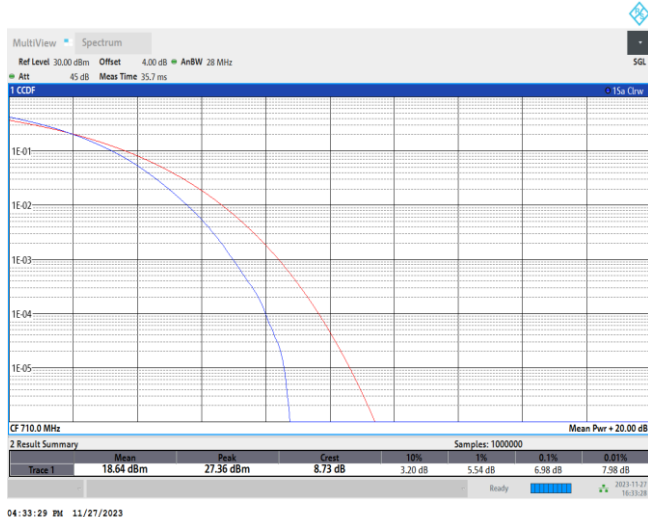


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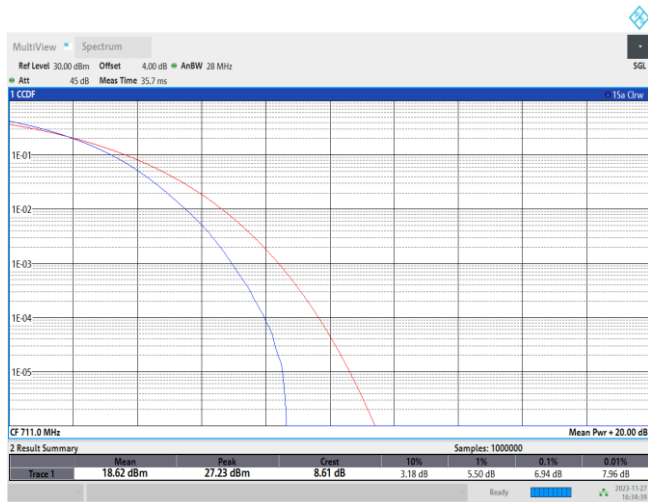
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Band17-10MHz-256QAM-23790-50RB#0



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



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23790	25RB#0	4.474	4.84	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.482	5.00	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.484	4.97	PASS
Band17	5MHz	256QAM	23790	25RB#0	4.472	4.97	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.974	9.53	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.961	9.40	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.926	9.90	PASS
Band17	10MHz	256QAM	23790	50RB#0	8.951	9.57	PASS



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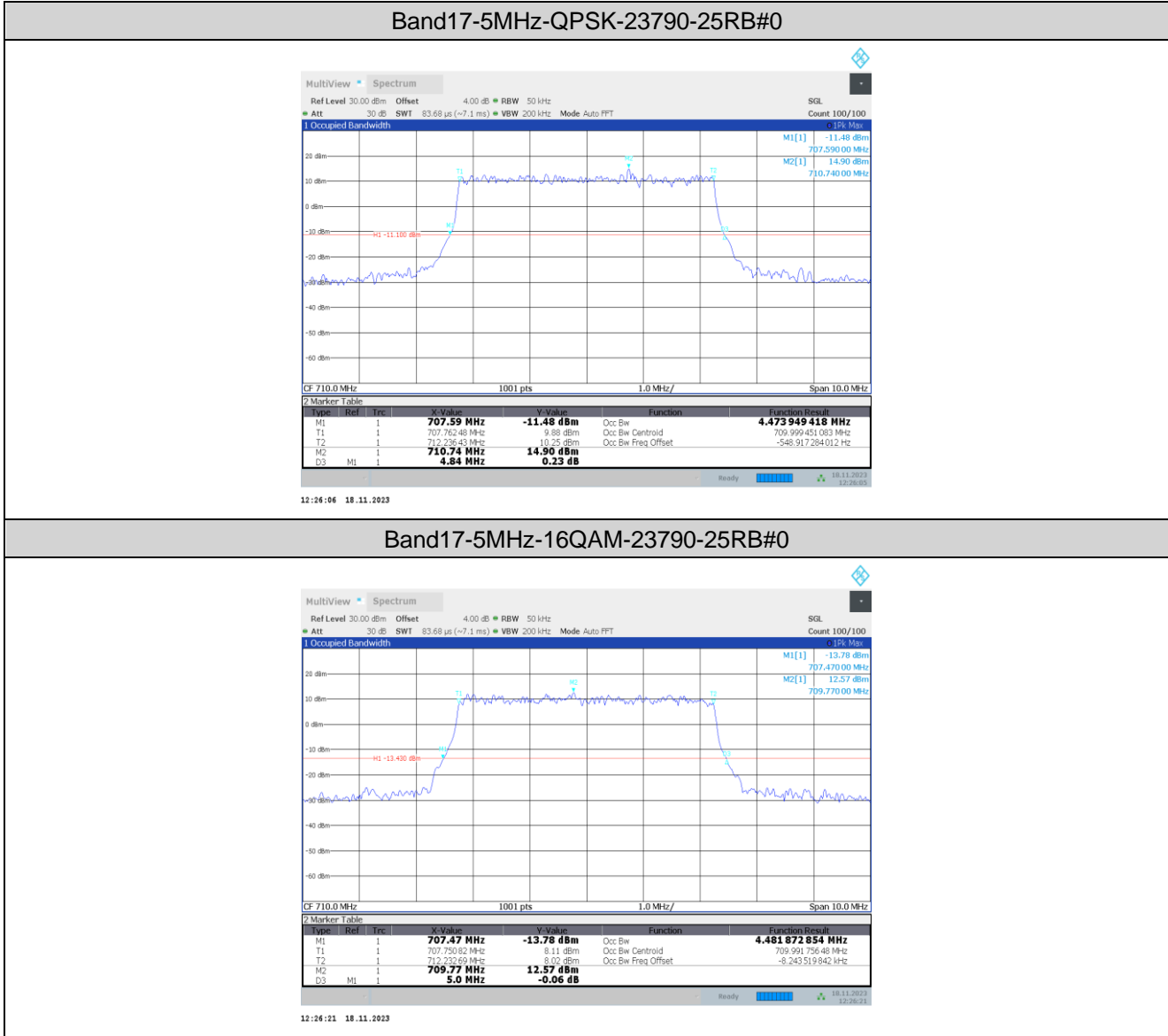
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Test Graphs

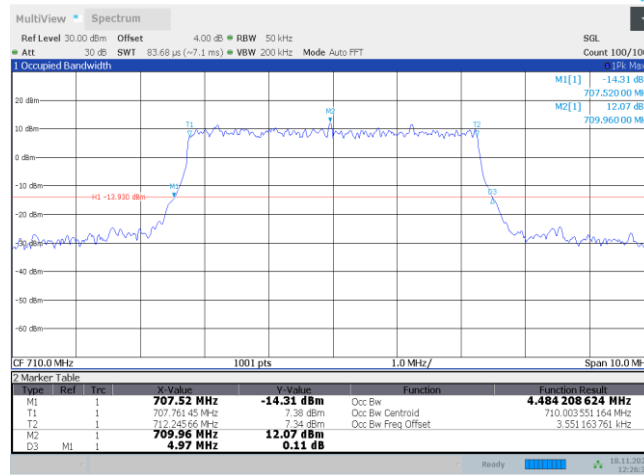


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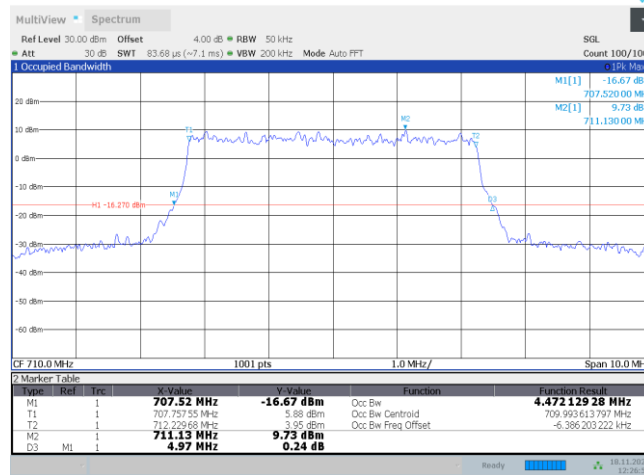
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Band17-5MHz-64QAM-23790-25RB#0



12:24:36 18.11.2023

Band17-5MHz-256QAM-23790-25RB#0



12:24:51 18.11.2023



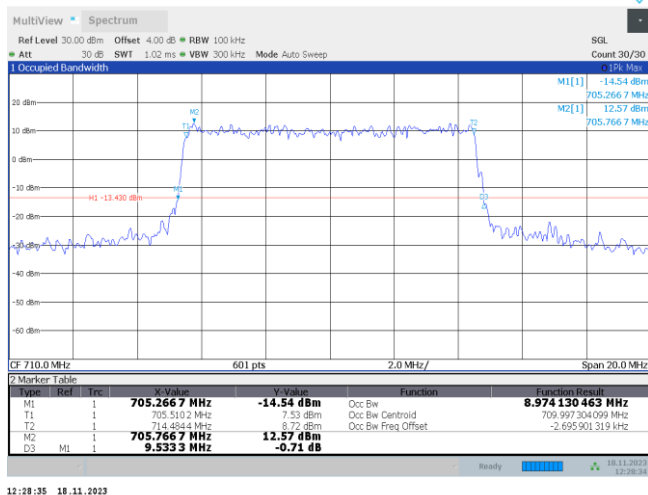
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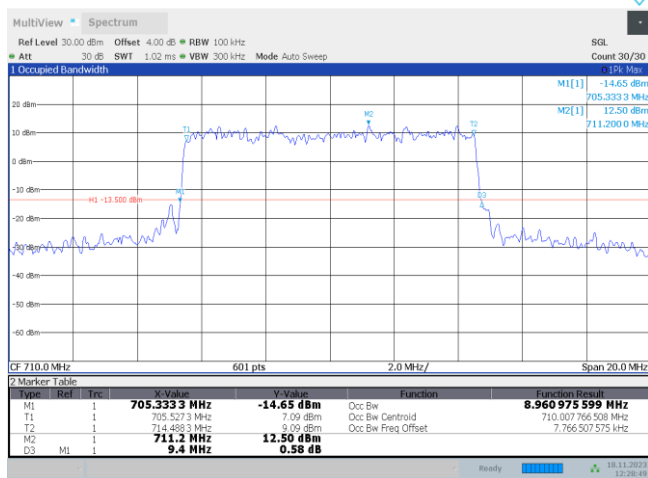
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Band17-10MHz-QPSK-23790-50RB#0



12:28:35 18.11.2023

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



12:28:49 18.11.2023



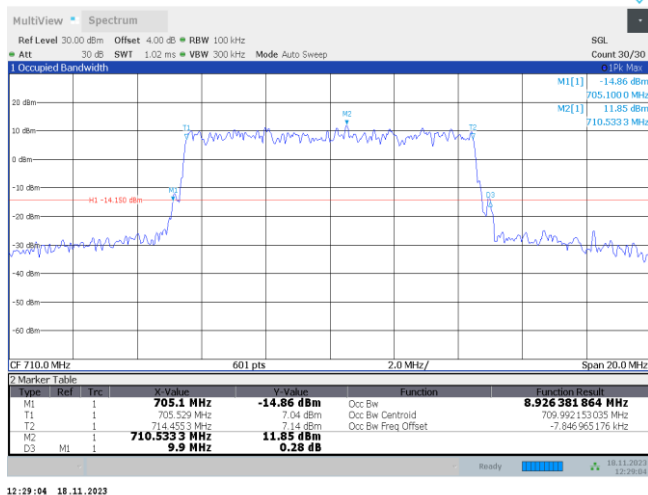
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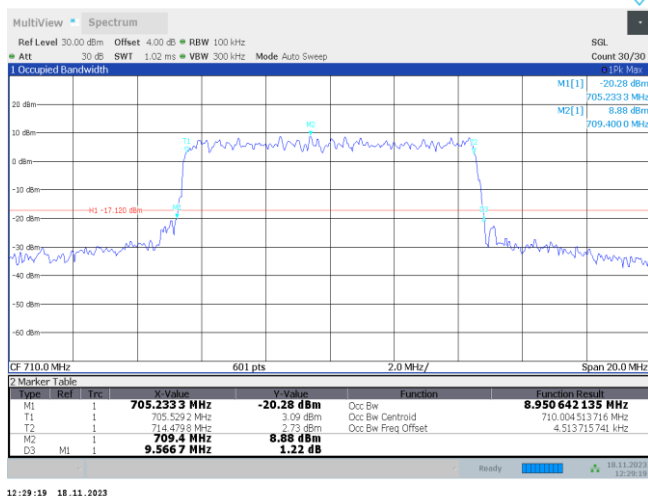


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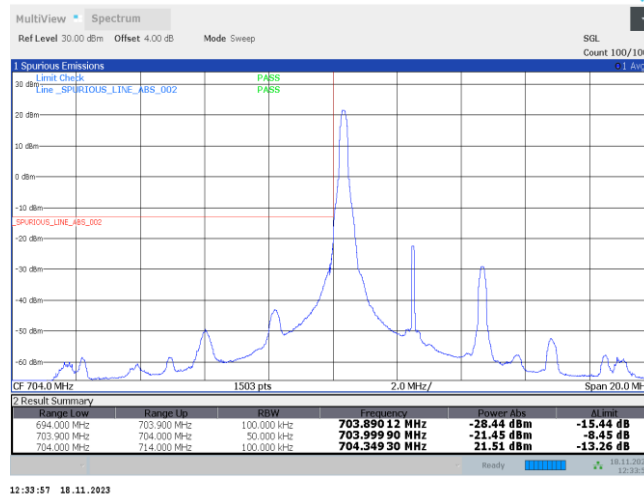
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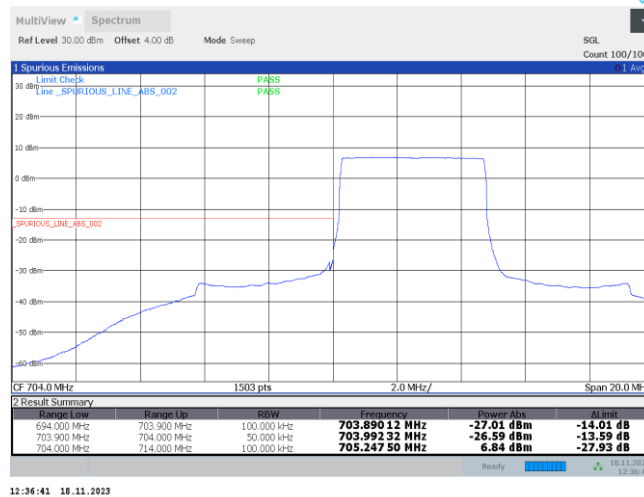
## Band Edge

## Test Graphs

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



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



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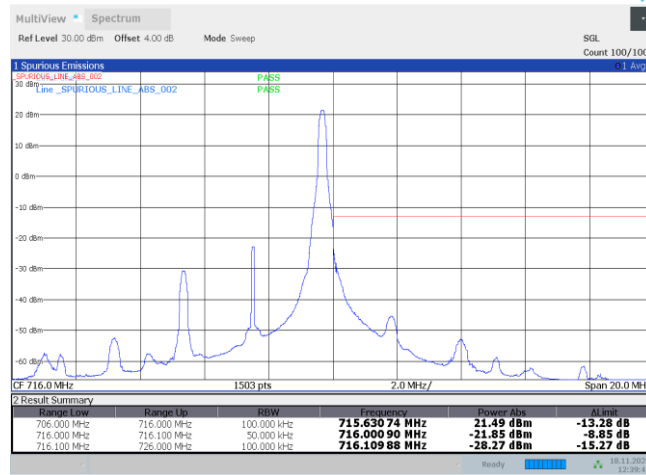
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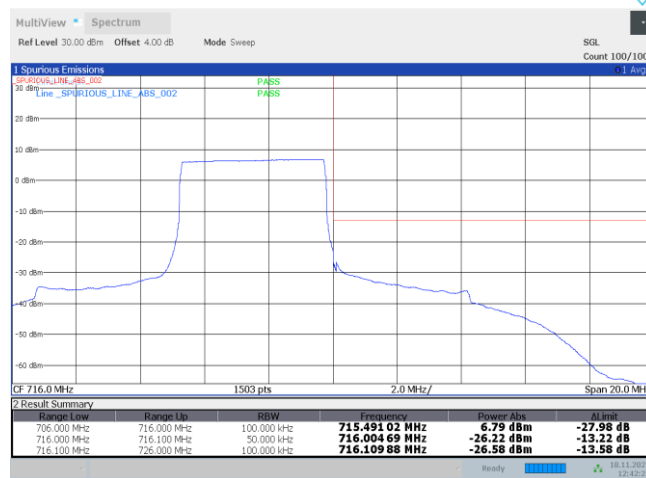
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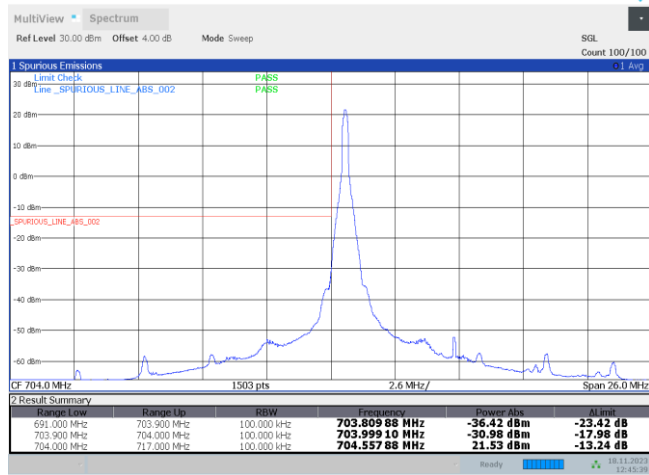


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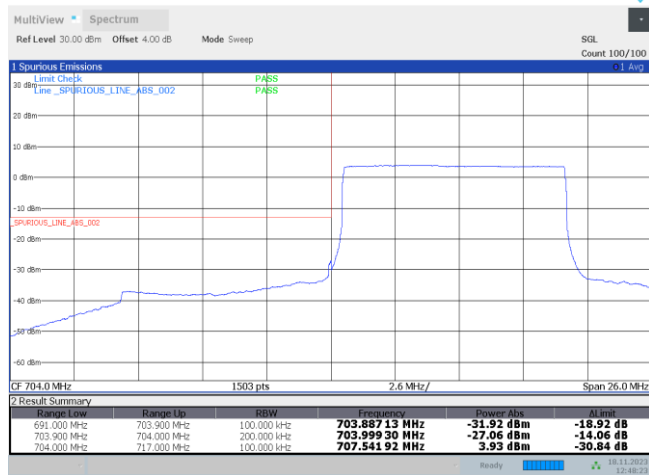
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12:45:40 18.11.2023

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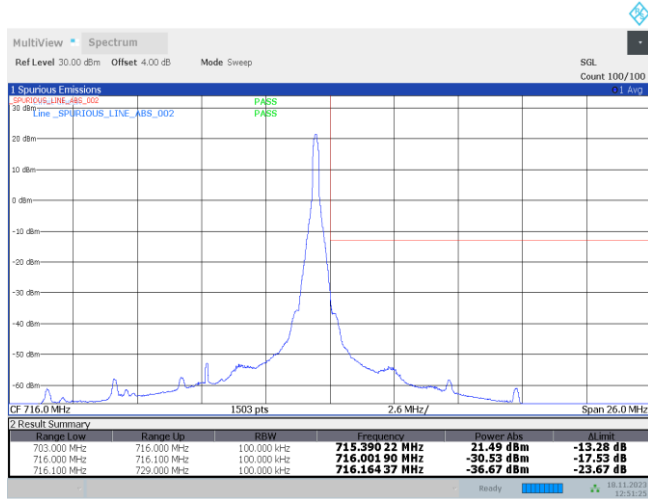
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Band17-10MHz-QPSK-23800-1RB#49



12:51:25 18.11.2023

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



12:54:09 18.11.2023



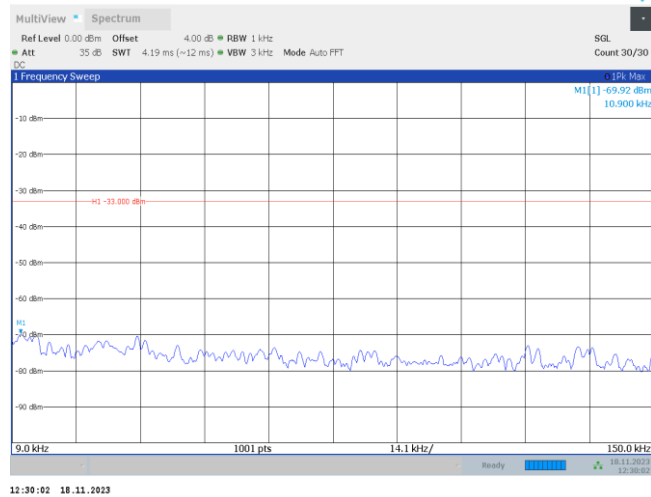
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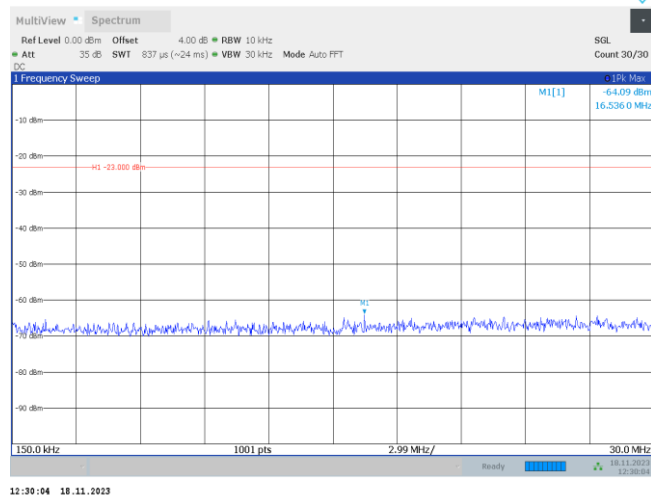
## Conducted Spurious Emission

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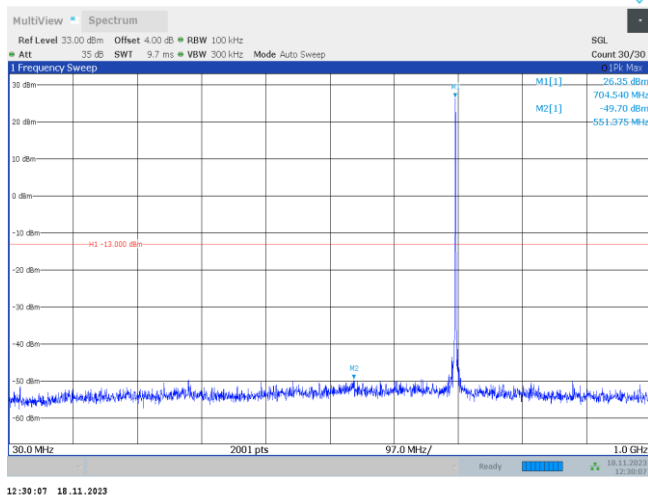
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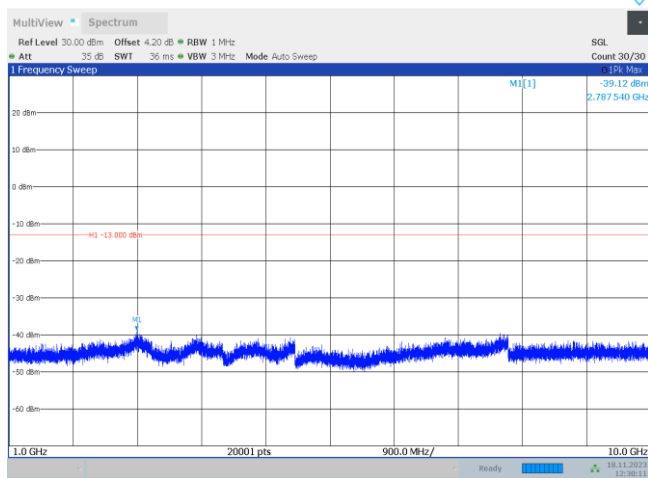
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



12:30:07 18.11.2023

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



12:30:12 18.11.2023



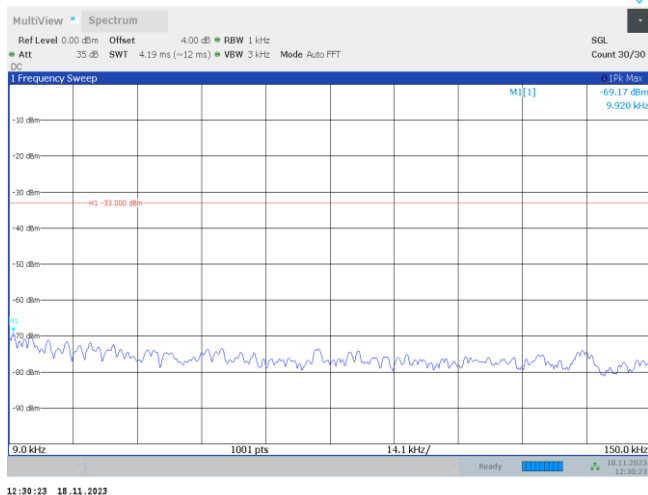
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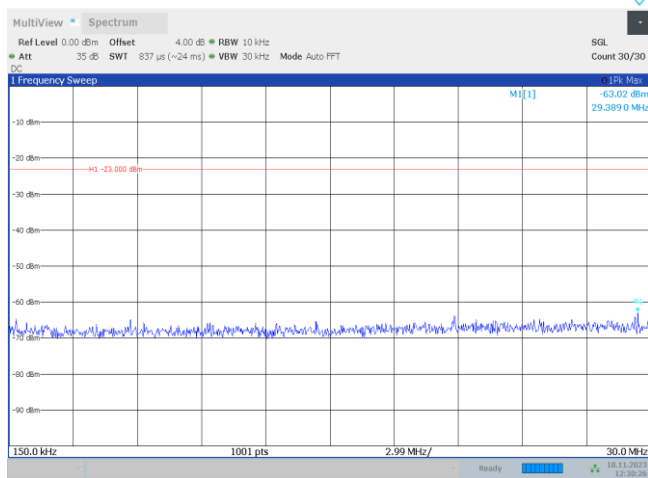
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



12:30:23 18.11.2023

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



12:30:24 18.11.2023



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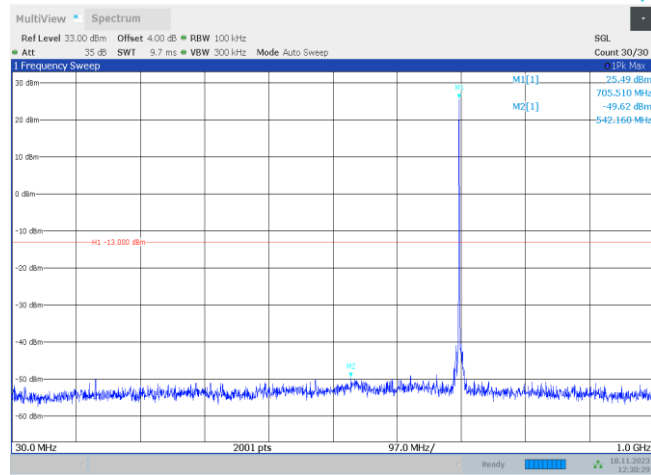
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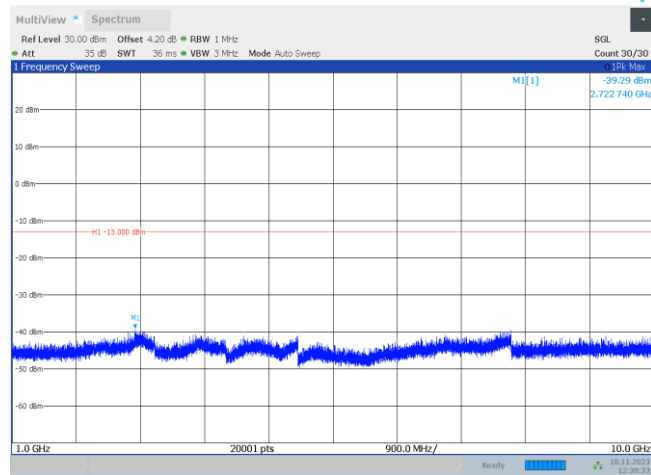


Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



12:30:29 18.11.2023

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



12:30:33 18.11.2023



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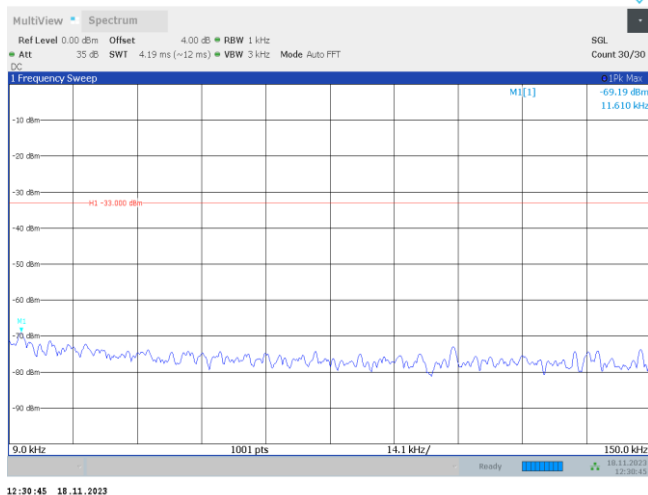
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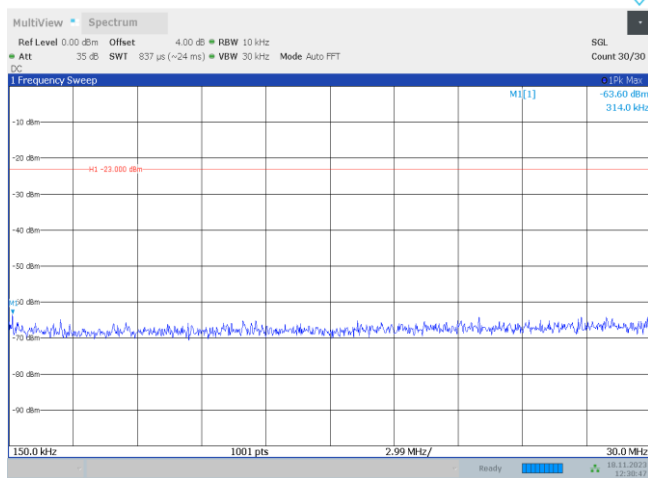
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



12:30:45 18.11.2023

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



12:30:48 18.11.2023



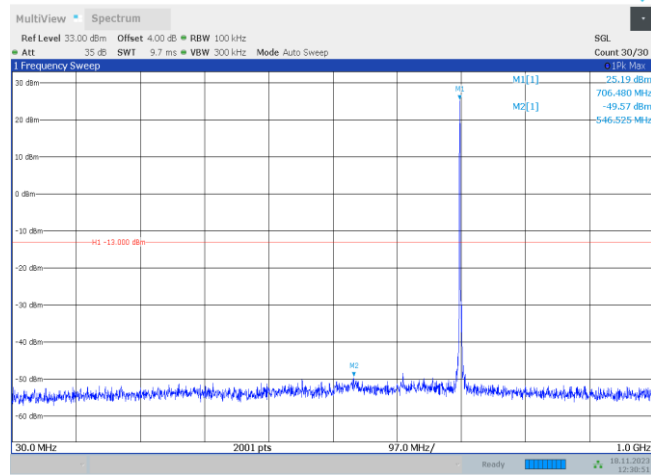
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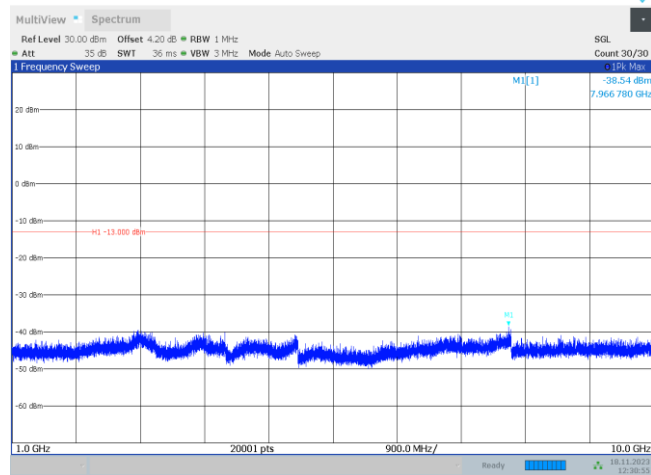
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



12:30:51 18.11.2023

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



12:30:55 18.11.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band17\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	38.73	-48.03	25.10	-79.46	-13.00	66.46	Horizontal
2	2113.7700	39.75	-47.71	26.22	-77.00	-13.00	64.00	Horizontal
3	2818.3600	39.70	-46.85	27.94	-74.48	-13.00	61.48	Horizontal
4	3522.9500	39.78	-46.49	28.62	-73.35	-13.00	60.35	Horizontal
5	4227.5400	38.25	-45.91	29.65	-73.27	-13.00	60.27	Horizontal
6	4932.1300	40.53	-45.65	31.25	-69.13	-13.00	56.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	43.26	-48.03	25.10	-74.93	-13.00	61.93	Vertical
2	2113.7700	42.20	-47.71	26.22	-74.55	-13.00	61.55	Vertical
3	2818.3600	42.14	-46.85	27.94	-72.04	-13.00	59.04	Vertical
4	3522.9500	41.71	-46.49	28.62	-71.42	-13.00	58.42	Vertical
5	4227.5400	40.88	-45.91	29.65	-70.64	-13.00	57.64	Vertical
6	4932.1300	41.31	-45.65	31.25	-68.35	-13.00	55.35	Vertical



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**Test Band = LTE Band17\_ TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	40.16	-48.04	25.11	-78.03	-13.00	65.03	Horizontal
2	2116.7700	39.83	-47.70	26.23	-76.91	-13.00	63.91	Horizontal
3	2822.3600	39.95	-46.84	27.95	-74.20	-13.00	61.20	Horizontal
4	3527.9500	40.31	-46.48	28.63	-72.81	-13.00	59.81	Horizontal
5	4233.5400	38.71	-45.90	29.66	-72.79	-13.00	59.79	Horizontal
6	4939.1300	40.01	-45.67	31.27	-69.65	-13.00	56.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	43.81	-48.04	25.11	-74.38	-13.00	61.38	Vertical
2	2116.7700	42.38	-47.70	26.23	-74.36	-13.00	61.36	Vertical
3	2822.3600	42.41	-46.84	27.95	-71.74	-13.00	58.74	Vertical
4	3527.9500	42.42	-46.48	28.63	-70.70	-13.00	57.70	Vertical
5	4233.5400	40.54	-45.90	29.66	-70.96	-13.00	57.96	Vertical
6	4939.1300	41.57	-45.67	31.27	-68.09	-13.00	55.09	Vertical



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**Test Band = LTE Band17\_ TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	42.48	-48.04	25.11	-75.72	-13.00	62.72	Horizontal
2	2119.7700	40.40	-47.70	26.24	-76.33	-13.00	63.33	Horizontal
3	2826.3600	40.05	-46.83	27.95	-74.08	-13.00	61.08	Horizontal
4	3532.9500	40.06	-46.47	28.63	-73.04	-13.00	60.04	Horizontal
5	4239.5400	38.66	-45.89	29.68	-72.81	-13.00	59.81	Horizontal
6	4946.1300	40.17	-45.69	31.28	-69.49	-13.00	56.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	44.12	-48.04	25.11	-74.08	-13.00	61.08	Vertical
2	2119.7700	42.68	-47.70	26.24	-74.05	-13.00	61.05	Vertical
3	2826.3600	42.26	-46.83	27.95	-71.87	-13.00	58.87	Vertical
4	3532.9500	41.42	-46.47	28.63	-71.68	-13.00	58.68	Vertical
5	4239.5400	40.52	-45.89	29.68	-70.95	-13.00	57.95	Vertical
6	4946.1300	41.26	-45.69	31.28	-68.40	-13.00	55.40	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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	0.80	0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	0.90	0.001268	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	0.90	0.001268	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-0.20	-0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.80	0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-1.80	-0.002535	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.80	0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.30	0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-0.30	-0.000423	PASS

---End of Attachment---



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