

# Appendix B.8

## 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	23.66	21.18	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.72	21.24	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.69	21.21	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.81	20.33	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.77	21.29	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.68	21.20	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.74	21.26	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.80	20.32	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.38	20.90	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.79	21.31	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.80	21.32	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.77	20.29	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.92	20.44	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.97	20.49	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.02	20.54	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.79	19.31	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.96	20.48	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.06	20.58	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.99	20.51	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.76	19.28	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.94	20.46	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.08	20.60	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.07	20.59	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.75	19.27	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.68	21.20	34.77	PASS



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Band17	10MHz	QPSK	23780	1RB#24	23.72	21.24	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.76	21.28	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.78	20.30	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.63	21.15	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.74	21.26	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.73	21.25	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.77	20.29	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.72	21.24	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.73	21.25	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.75	21.27	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.77	20.29	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.88	20.40	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.04	20.56	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.09	20.61	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.79	19.31	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.97	20.49	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.00	20.52	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.07	20.59	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.78	19.30	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.01	20.53	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.03	20.55	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.99	20.51	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.79	19.31	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

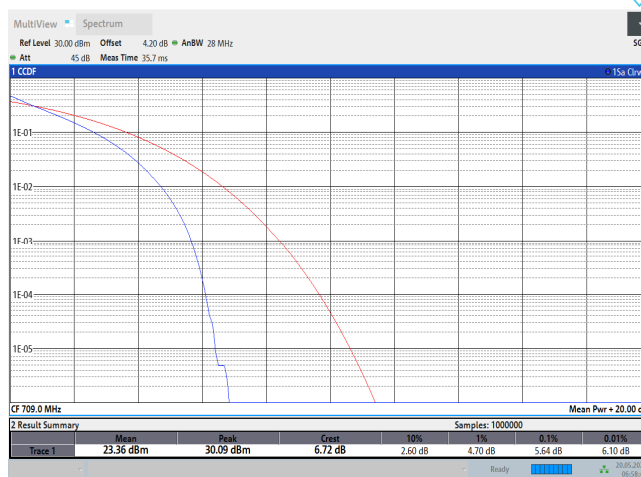
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.64	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.54	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.58	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.34	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.36	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.32	13	PASS



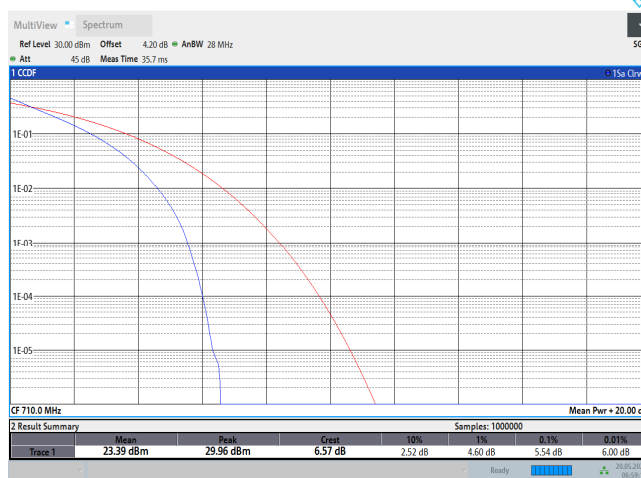
Test Graphs

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



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



06:59:20 20.05.2023

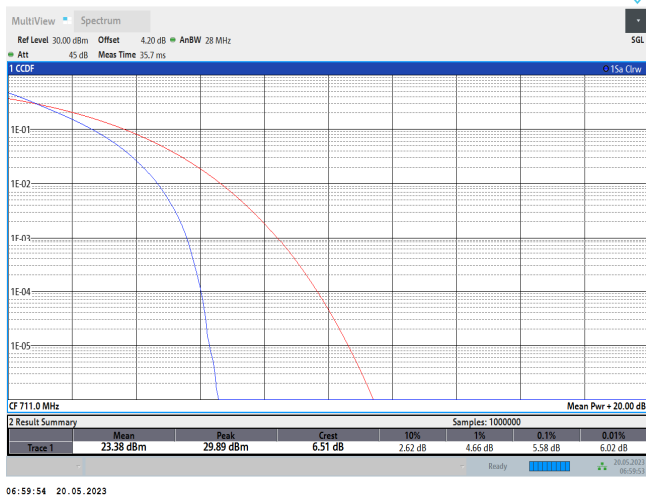


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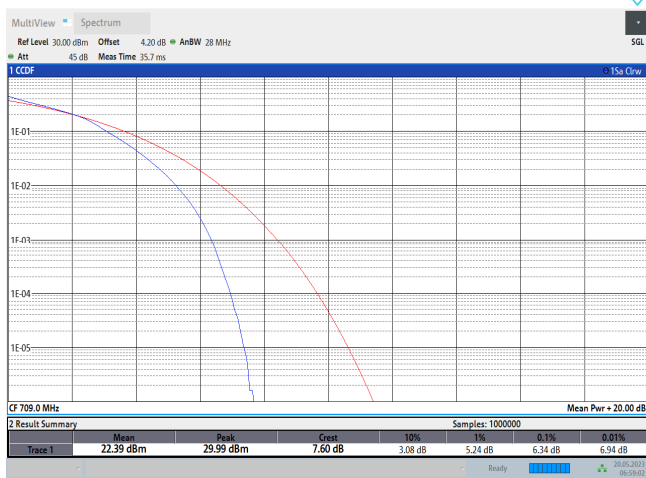
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Band17-10MHz-QPSK-23800-50RB#0



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



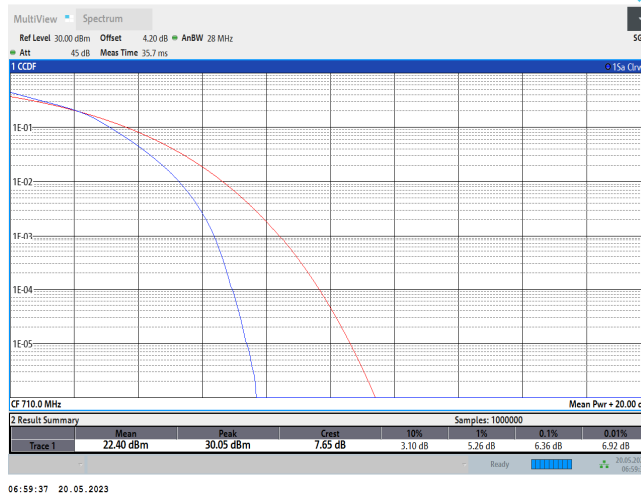
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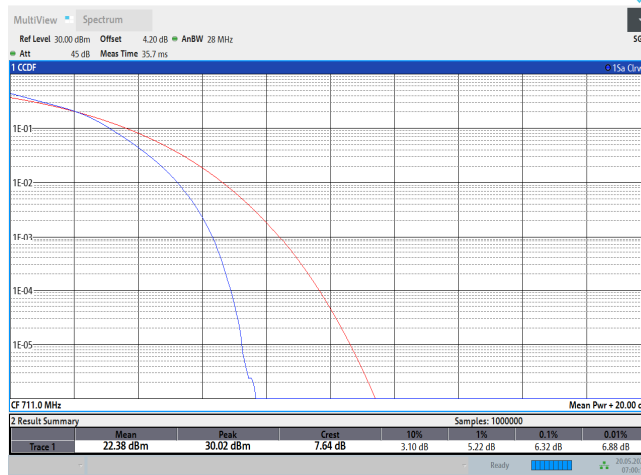
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Band17-10MHz-16QAM-23790-50RB#0



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



07:00:10 20.05.2023



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.474	4.88	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.475	4.90	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.470	4.87	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.471	4.91	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.478	4.89	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.465	4.88	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.960	9.67	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.945	9.70	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.939	9.70	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.943	9.70	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.935	9.63	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.918	9.67	PASS





Test Graphs

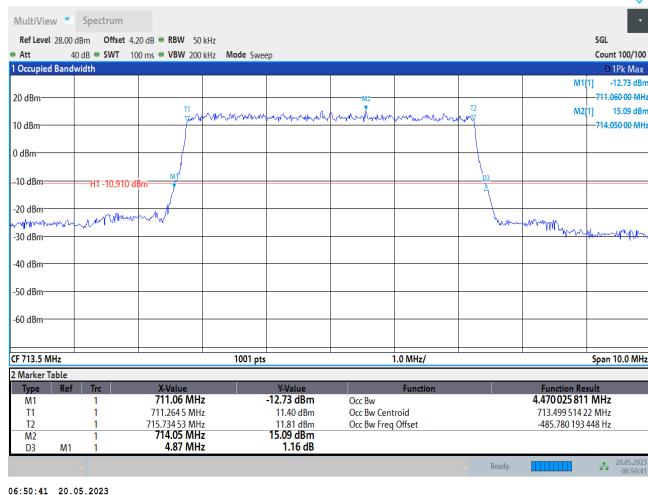


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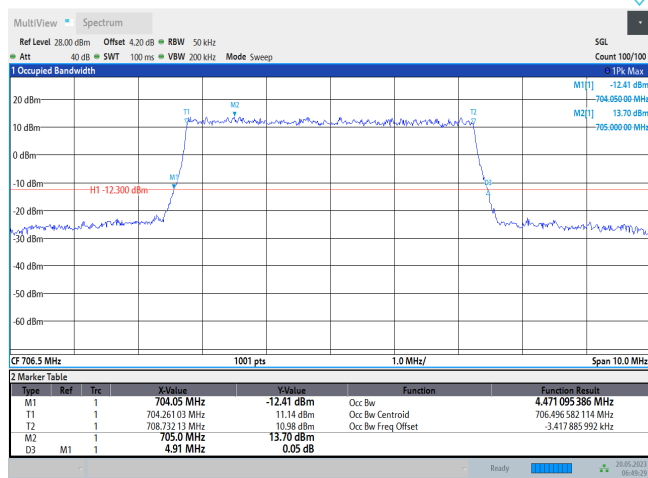
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Band17-5MHz-QPSK-23825-25RB#0



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



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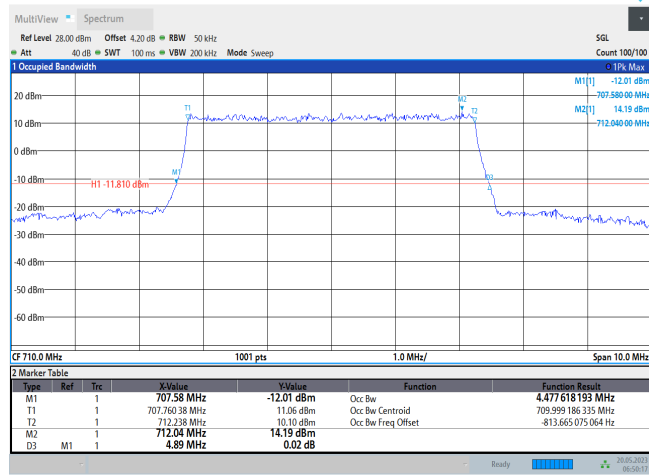


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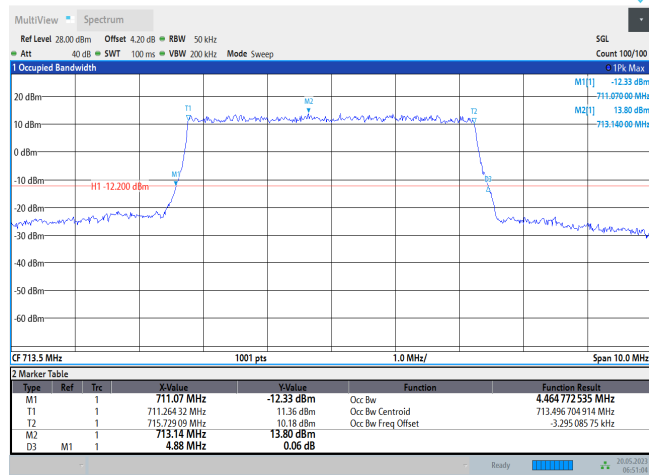
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Band17-5MHz-16QAM-23790-25RB#0



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Band17-5MHz-16QAM-23825-25RB#0



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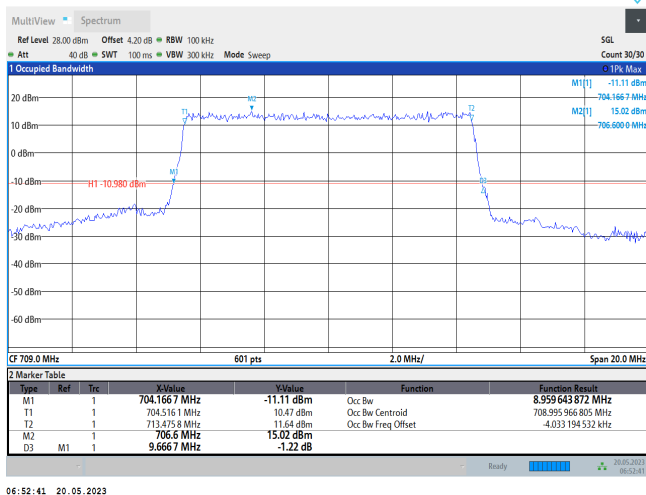
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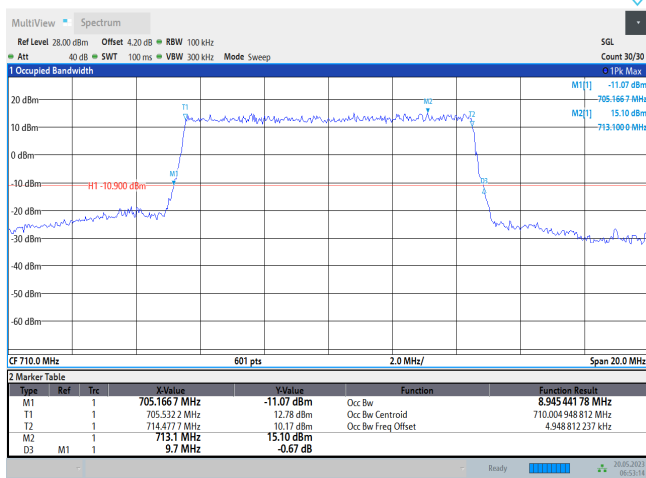
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Band17-10MHz-QPSK-23780-50RB#0



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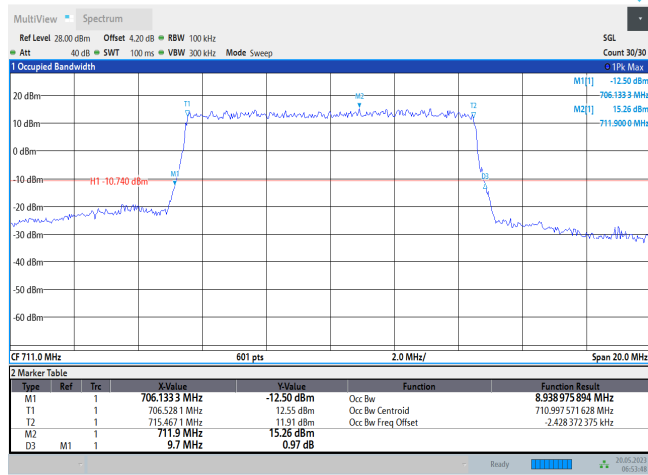


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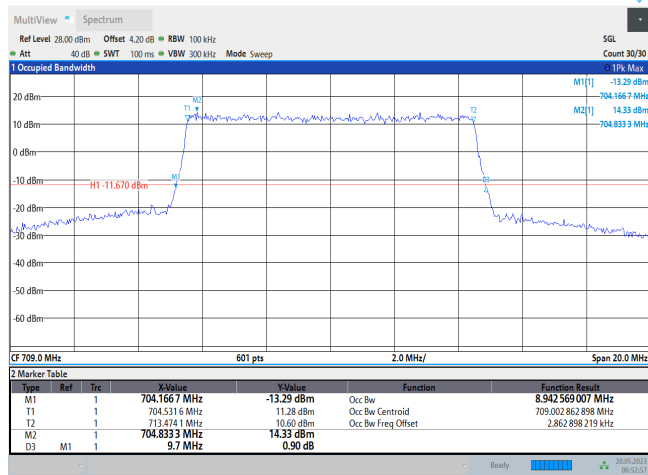
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Band17-10MHz-QPSK-23800-50RB#0



06:53:48 20.05.2023

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



06:52:58 20.05.2023



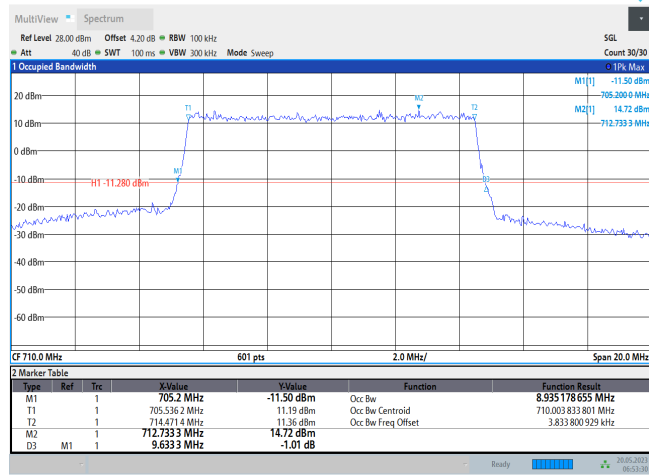
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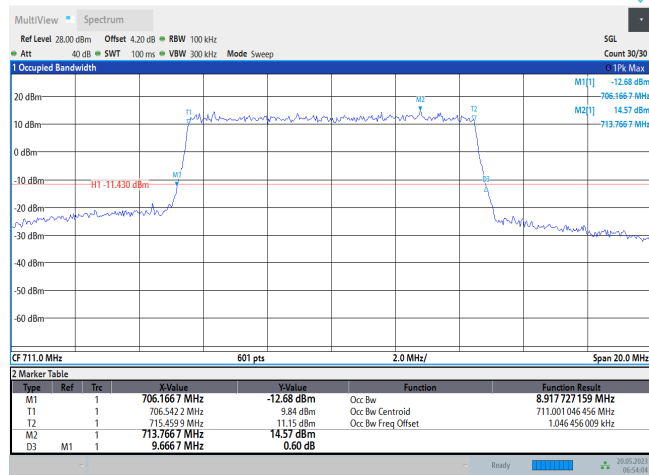
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Band17-10MHz-16QAM-23790-50RB#0



06:53:31 20.05.2023

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



06:54:04 20.05.2023



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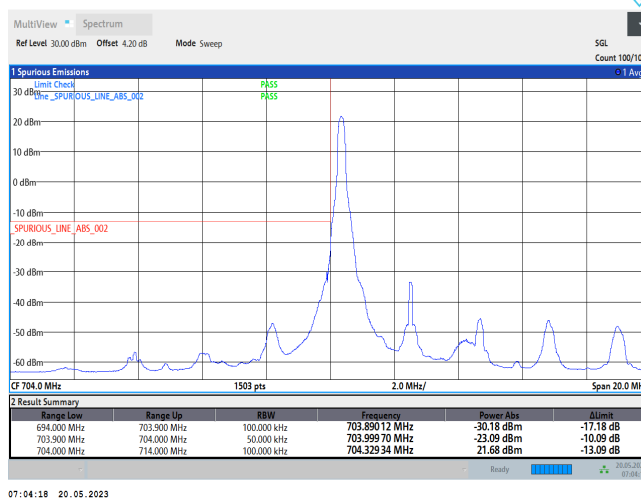
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## Band Edge

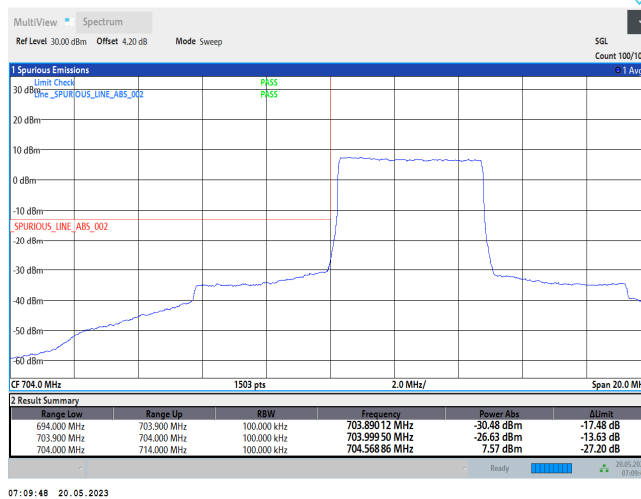
## Test Graphs

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



07:04:18 20.05.2023

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



07:09:48 20.05.2023

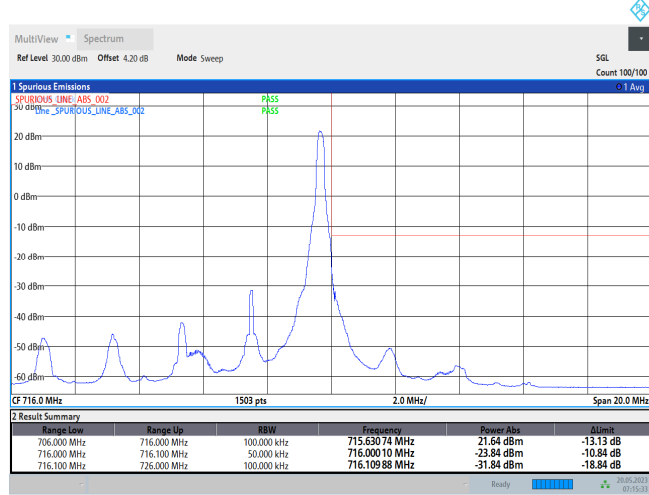


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Band17-5MHz-QPSK-23825-1RB#24



07:15:34 20.05.2023

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



07:21:04 20.05.2023

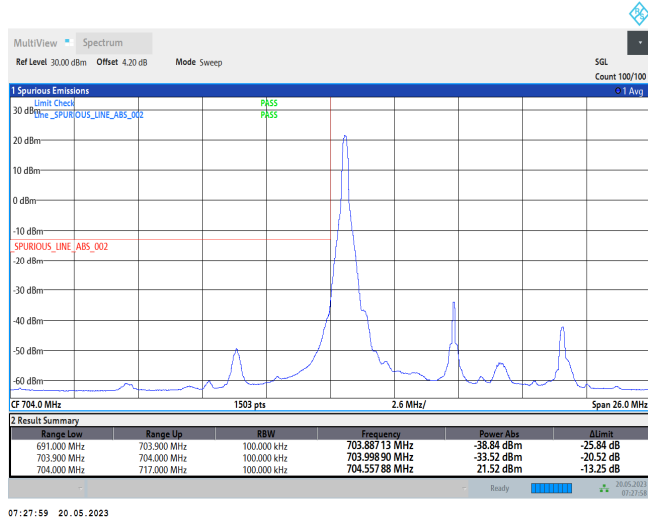


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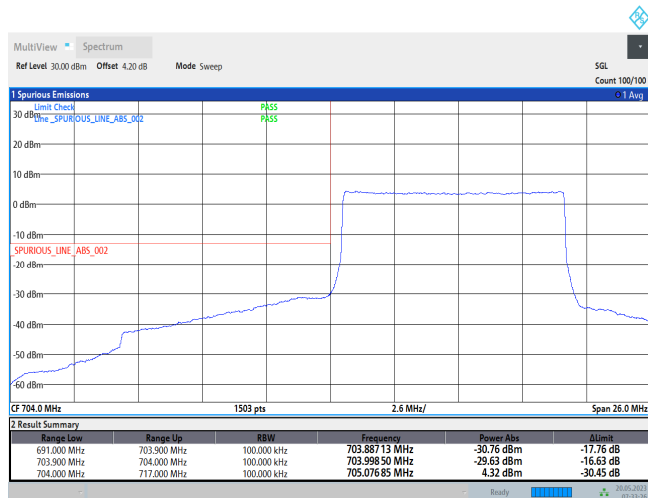


Band17-10MHz-QPSK-23780-1RB#0



07:27:59 20.05.2023

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



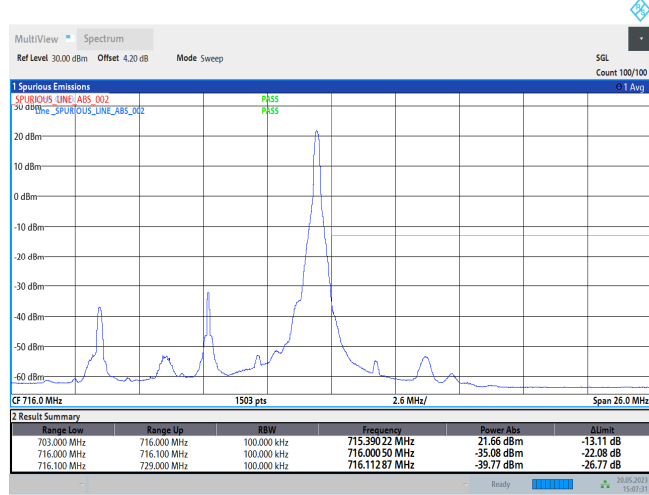
07:33:27 20.05.2023



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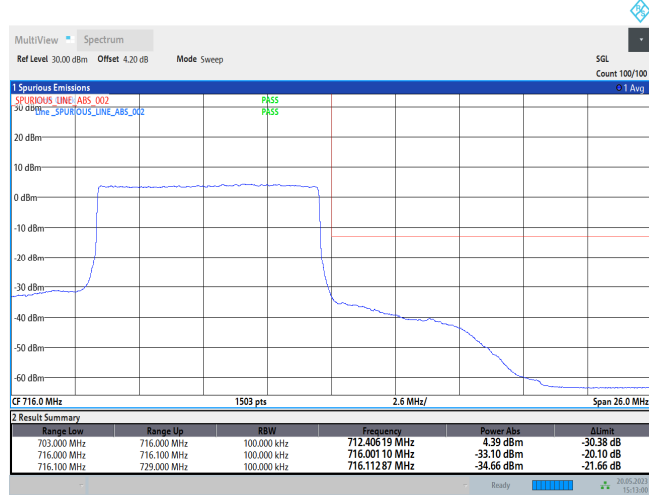
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Band17-10MHz-QPSK-23800-1RB#49



15:07:32 20.05.2023

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



15:13:01 20.05.2023



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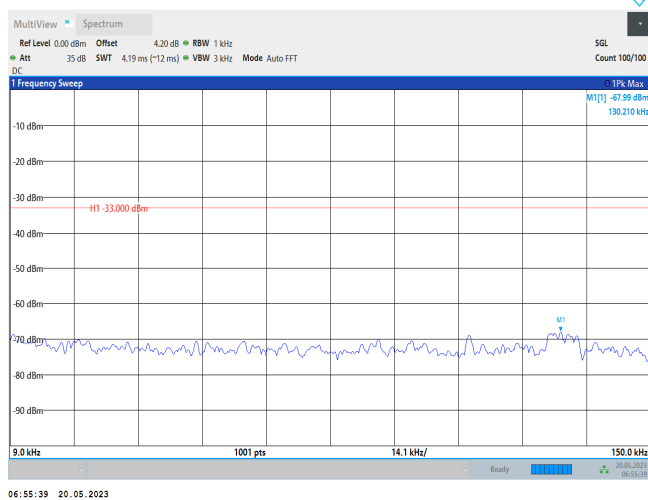
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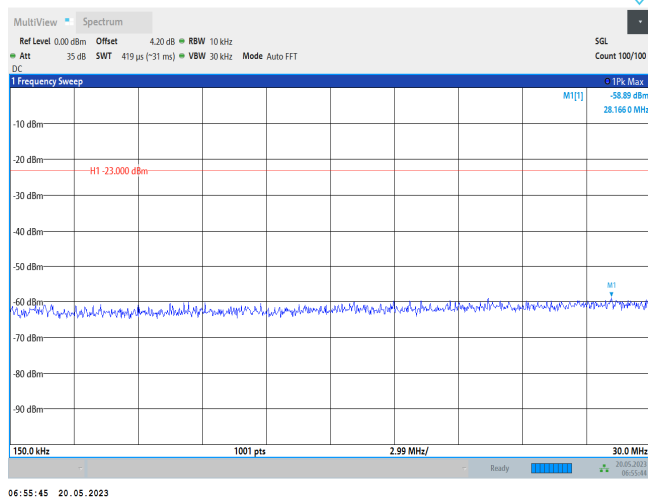
## Conducted Spurious Emission

### Test Graphs

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



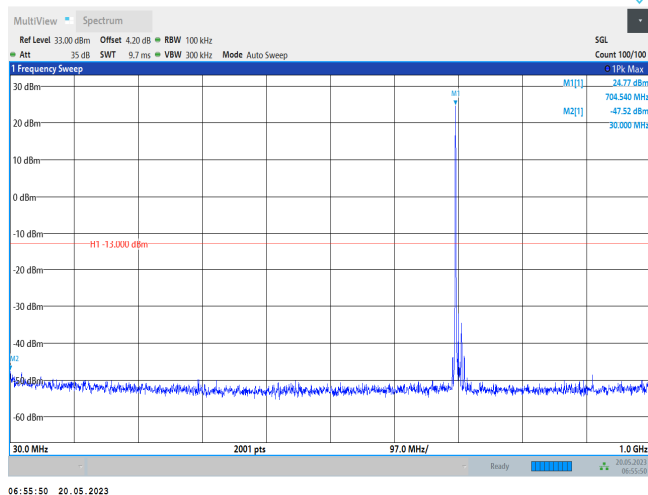
Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



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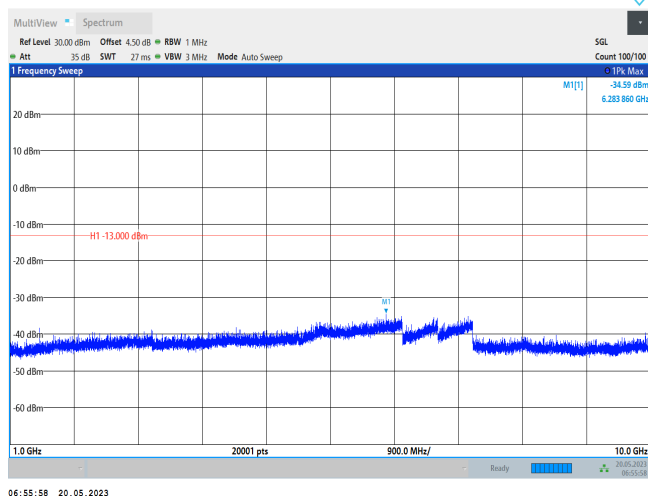
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



06:55:50 20.05.2023

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

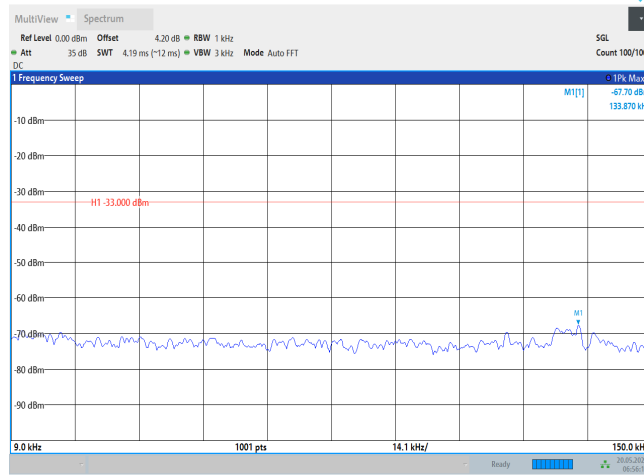


06:55:58 20.05.2023



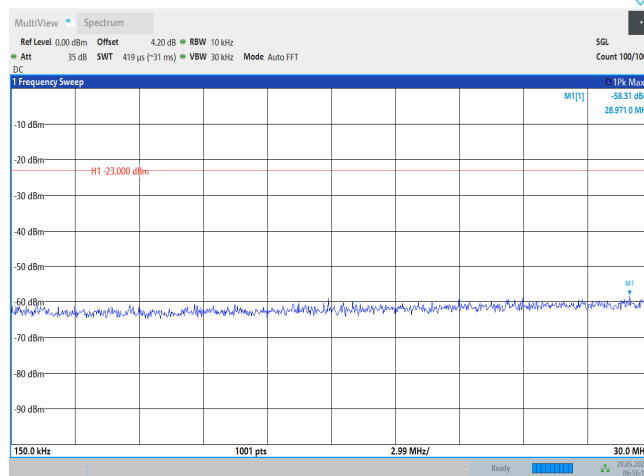
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



06:56:13 20.05.2023

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



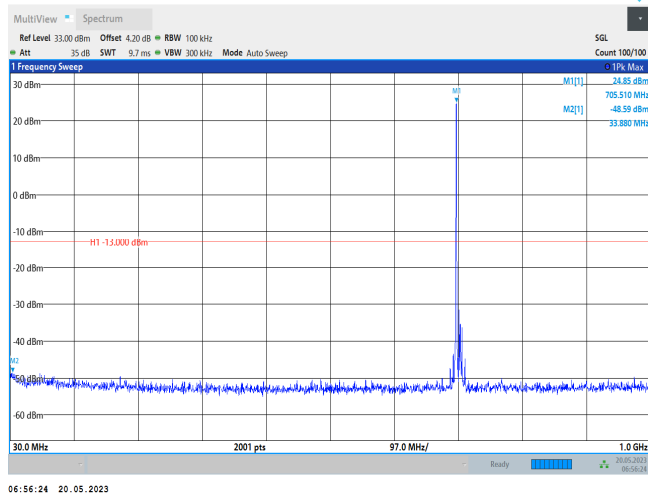
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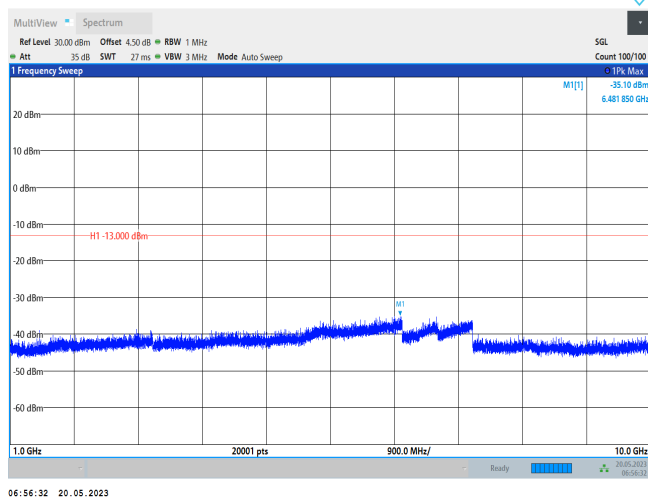
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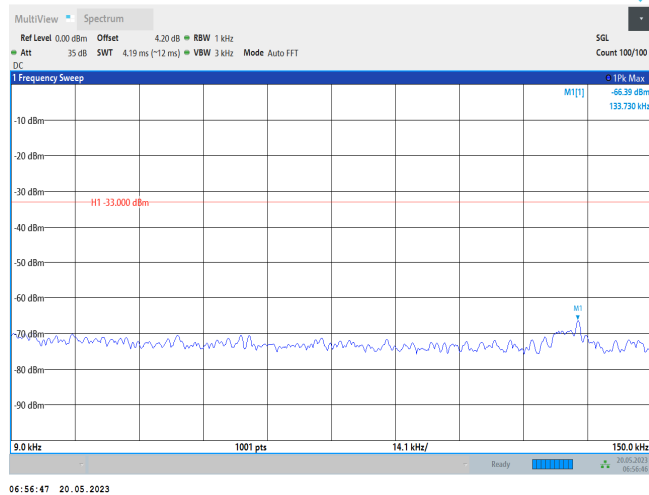


Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



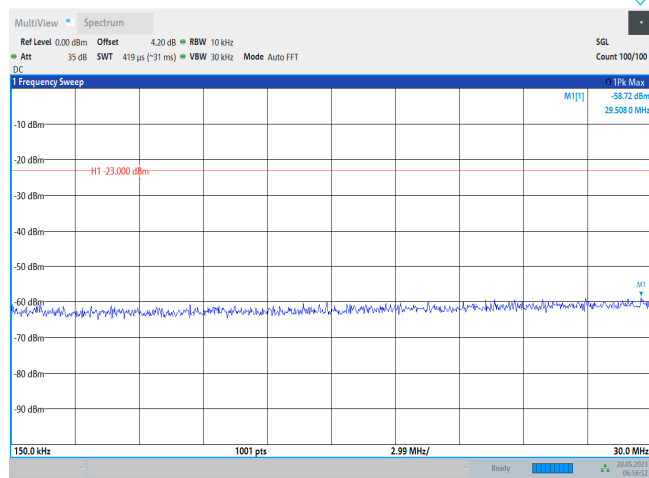
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



06:56:47 20.05.2023

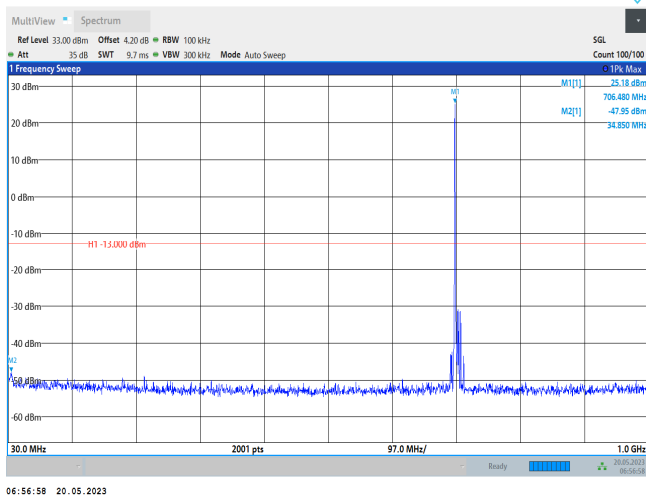
Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



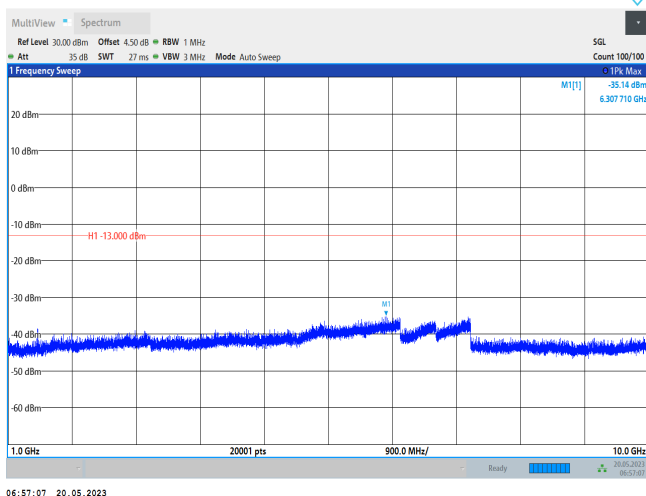
06:56:53 20.05.2023



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\_10MHz\_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.18	50.35	-48.71	25.41	-68.21	-13.00	55.21	196	4	Horizontal
2	2113.77	41.12	-47.86	27.13	-74.87	-13.00	61.87	265	347	Horizontal
3	2818.36	42.31	-46.70	28.98	-70.67	-13.00	57.67	284	359	Horizontal
4	3522.95	41.50	-46.02	29.46	-70.33	-13.00	57.33	142	270	Horizontal
5	4227.54	39.96	-45.11	30.96	-69.45	-13.00	56.45	285	98	Horizontal
6	4932.13	40.47	-45.10	32.44	-67.46	-13.00	54.46	263	359	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.18	52.93	-48.71	25.41	-65.63	-13.00	52.63	196	166	Vertical
2	2113.77	40.96	-47.86	27.13	-75.03	-13.00	62.03	265	230	Vertical
3	2818.36	42.10	-46.70	28.98	-70.88	-13.00	57.88	284	327	Vertical
4	3522.95	41.65	-46.02	29.46	-70.18	-13.00	57.18	142	135	Vertical
5	4227.54	40.86	-45.11	30.96	-68.55	-13.00	55.55	263	261	Vertical
6	4932.13	39.99	-45.10	32.44	-67.94	-13.00	54.94	228	87	Vertical



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**Test Band = LTE Band 17\_10MHz\_TM1**

**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.18	50.66	-48.70	25.41	-67.89	-13.00	54.89	196	358	Horizontal
2	2116.77	41.24	-47.86	27.13	-74.74	-13.00	61.74	265	63	Horizontal
3	2822.36	42.61	-46.71	29.00	-70.36	-13.00	57.36	284	174	Horizontal
4	3527.95	41.40	-46.02	29.47	-70.41	-13.00	57.41	142	252	Horizontal
5	4233.54	40.95	-45.11	30.97	-68.45	-13.00	55.45	263	126	Horizontal
6	4939.13	39.84	-45.09	32.45	-68.06	-13.00	55.06	228	94	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.18	48.80	-48.70	25.41	-69.75	-13.00	56.75	196	137	Vertical
2	2116.77	41.88	-47.86	27.13	-74.10	-13.00	61.10	265	200	Vertical
3	2822.36	42.60	-46.71	29.00	-70.37	-13.00	57.37	284	200	Vertical
4	3527.95	41.32	-46.02	29.47	-70.49	-13.00	57.49	142	231	Vertical
5	4233.54	41.28	-45.11	30.97	-68.12	-13.00	55.12	263	12	Vertical
6	4939.13	39.73	-45.09	32.45	-68.17	-13.00	55.17	228	279	Vertical



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**Test Band = LTE Band 17\_ 10MHz\_TM1**  
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	51.73	-48.70	25.41	-66.81	-13.00	53.81	196	360	Horizontal
2	2119.77	41.56	-47.85	27.14	-74.41	-13.00	61.41	265	267	Horizontal
3	2826.36	42.81	-46.71	29.01	-70.15	-13.00	57.15	284	282	Horizontal
4	3532.95	42.21	-46.01	29.48	-69.58	-13.00	56.58	254	234	Horizontal
5	4239.54	40.36	-45.11	30.98	-69.03	-13.00	56.03	142	359	Horizontal
6	4946.13	39.41	-45.09	32.47	-68.46	-13.00	55.46	263	353	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	51.98	-48.70	25.41	-66.56	-13.00	53.56	296	345	Vertical
2	2119.77	42.11	-47.85	27.14	-73.86	-13.00	60.86	265	93	Vertical
3	2826.36	43.01	-46.71	29.01	-69.95	-13.00	56.95	284	7	Vertical
4	3532.95	42.40	-46.01	29.48	-69.39	-13.00	56.39	142	76	Vertical
5	4239.54	40.93	-45.11	30.98	-68.46	-13.00	55.46	255	17	Vertical
6	4946.13	40.29	-45.09	32.47	-67.58	-13.00	54.58	277	76	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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## 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	6.00	0.008451	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	6.40	0.009014	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	1.10	0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	2.20	0.003099	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.30	0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-0.80	-0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	5.50	0.007746	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	4.00	0.005634	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	7.80	0.010986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	3.20	0.004507	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.50	0.000704	PASS

---End of Attachment---



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