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Appendix B.7

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	22.85	25.85	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.6	26.6	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.49	26.49	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.76	25.76	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.2	26.2	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.66	26.66	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.64	26.64	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.61	25.61	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.44	26.44	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.81	26.81	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.37	26.37	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.52	25.52	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.97	24.97	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.59	25.59	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.79	25.79	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.7	24.7	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.52	25.52	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.45	25.45	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.79	25.79	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.61	24.61	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.51	25.51	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.18	26.18	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.38	25.38	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.64	24.64	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.83	25.83	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.69	26.69	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.59	26.59	34.77	PASS



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Band17	10MHz	QPSK	23780	50RB#0	22.71	25.71	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.52	25.52	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.89	26.89	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.33	26.33	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.69	25.69	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.82	25.82	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.81	26.81	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.41	26.41	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.58	25.58	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.07	25.07	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.57	25.57	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.57	25.57	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.63	24.63	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.8	24.8	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.18	26.18	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.17	25.17	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.52	24.52	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.09	25.09	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.42	25.42	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.18	25.18	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.5	24.5	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	5.18	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.22	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.32	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.06	13	PASS



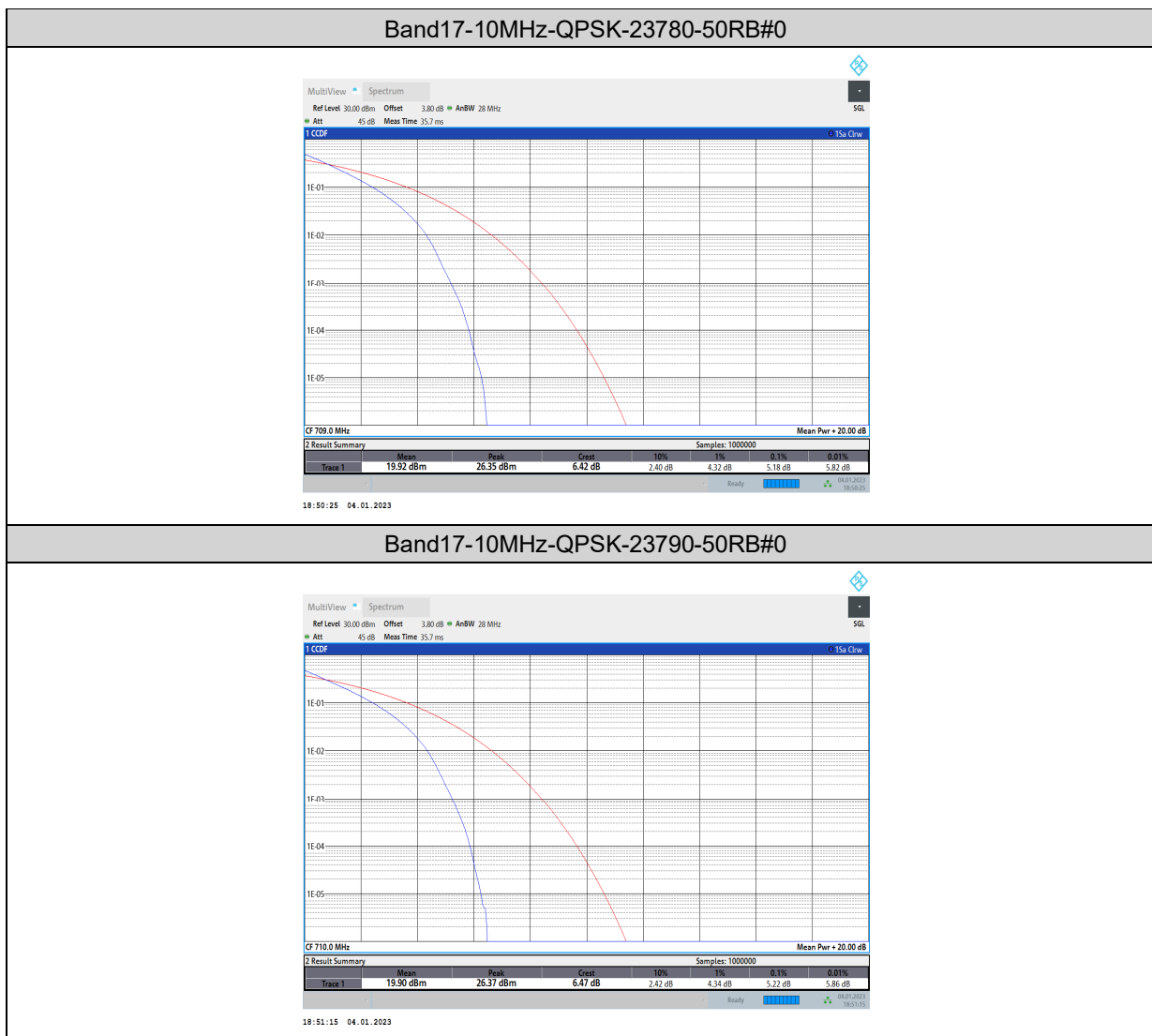
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Test Graphs



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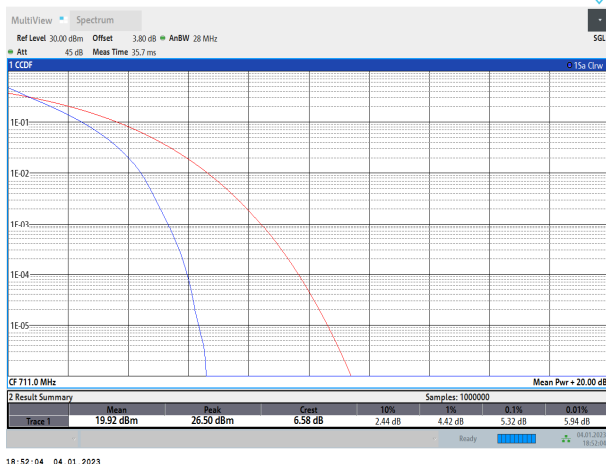
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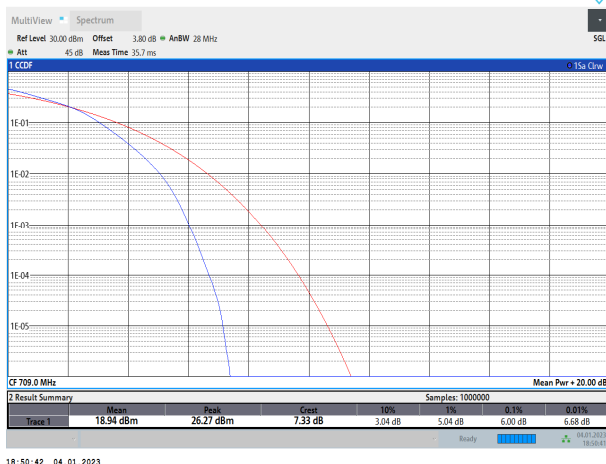
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Band17-10MHz-QPSK-23800-50RB#0



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



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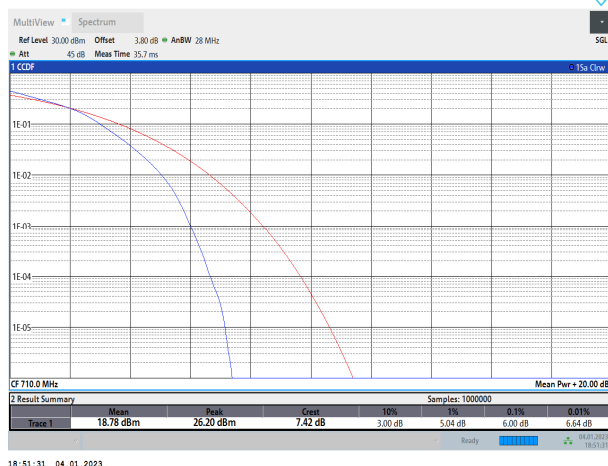
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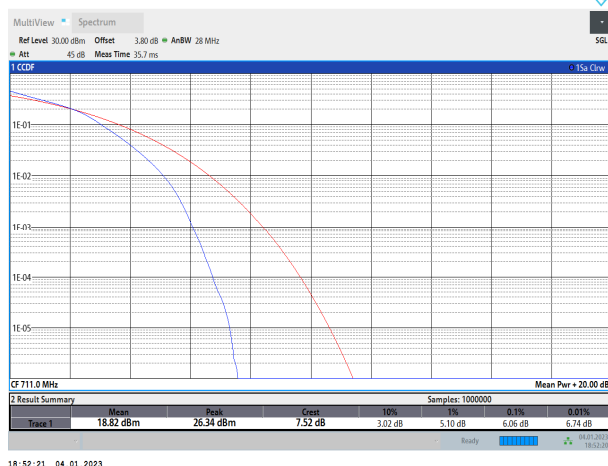
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Band17-10MHz-16QAM-23790-50RB#0



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



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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



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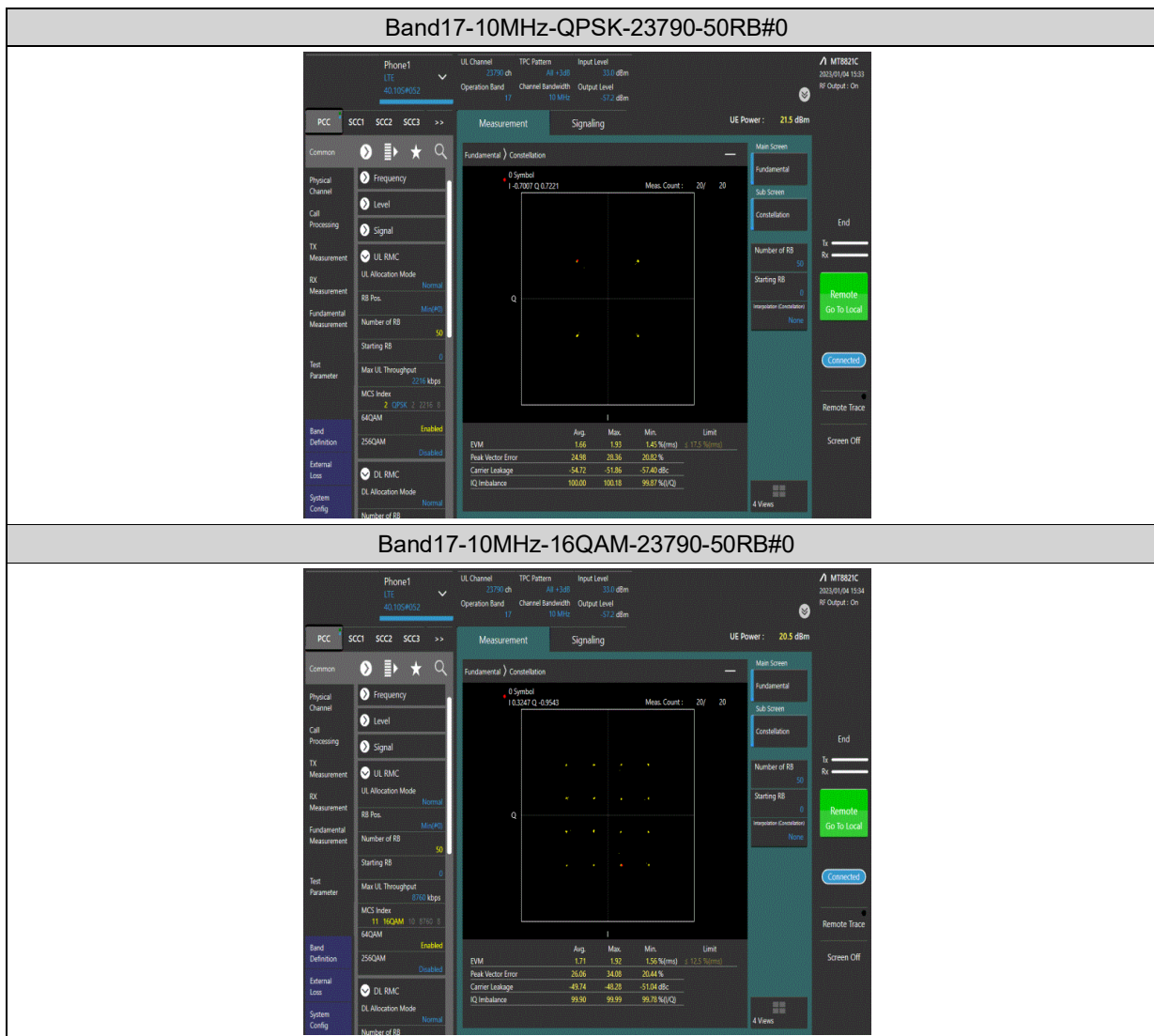
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.455	4.87	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.463	4.88	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.468	4.90	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.458	4.90	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.464	4.92	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.466	4.95	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.907	9.60	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.912	9.70	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.946	9.73	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.894	9.60	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.898	9.67	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.917	9.73	PASS



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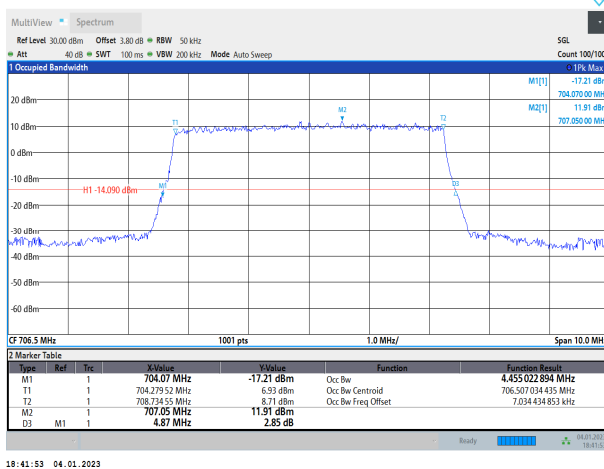
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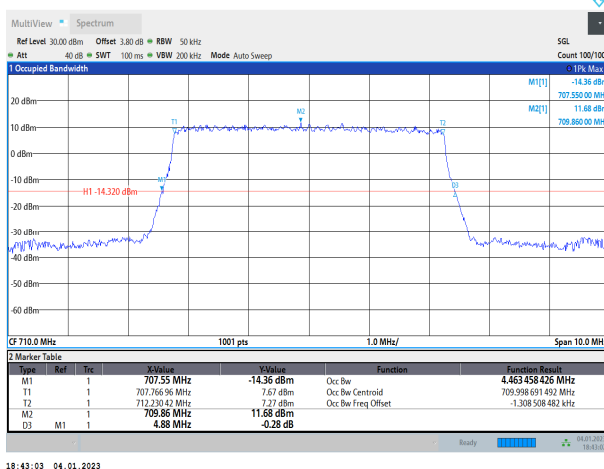
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Test Graphs

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



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

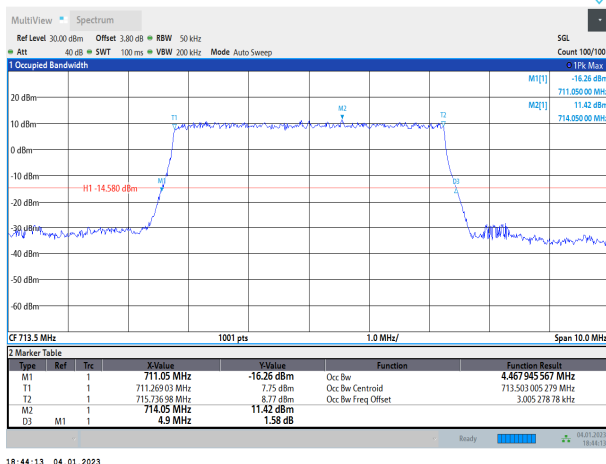


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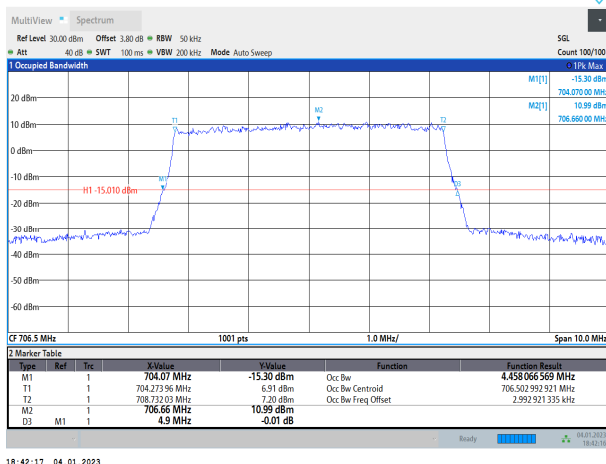
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Band17-5MHz-QPSK-23825-25RB#0



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



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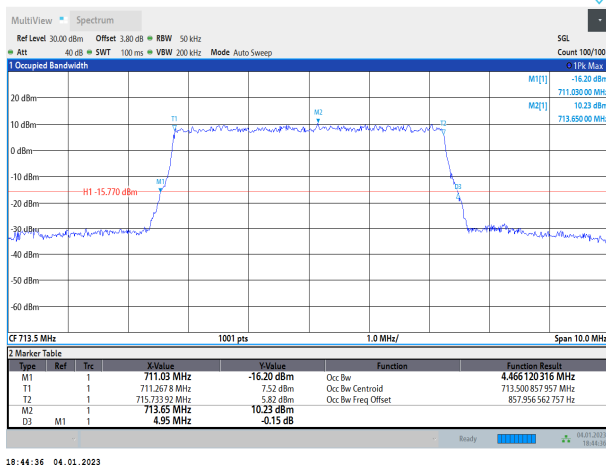
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Band17-5MHz-16QAM-23790-25RB#0



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



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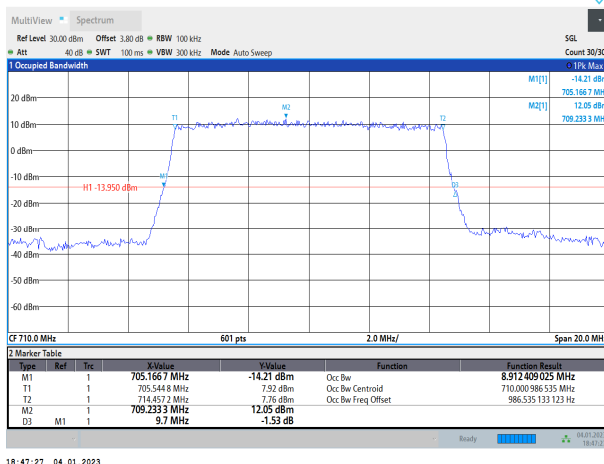
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Band17-10MHz-QPSK-23780-50RB#0



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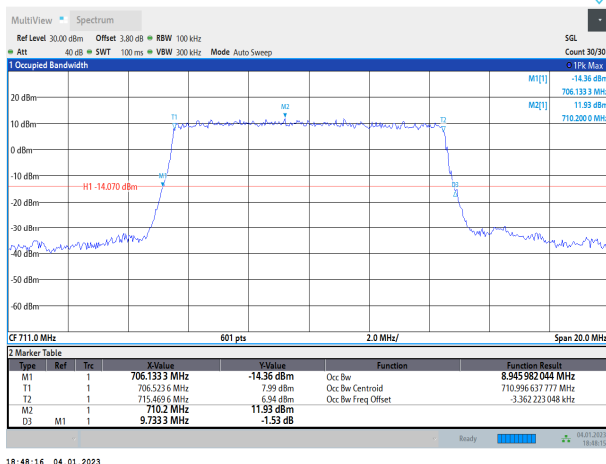
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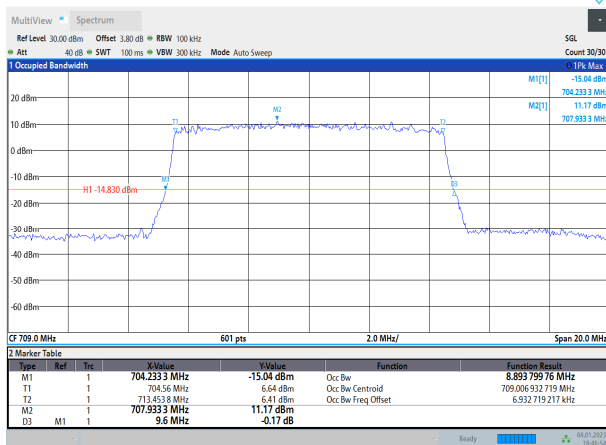
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Band17-10MHz-16QAM-23780-50RB#0



18:46:55 04.01.2023



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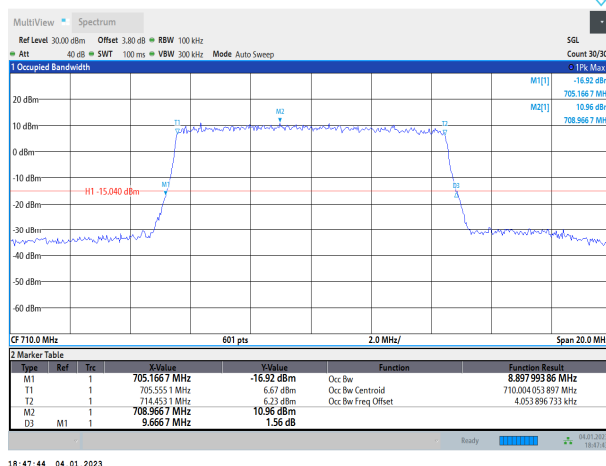
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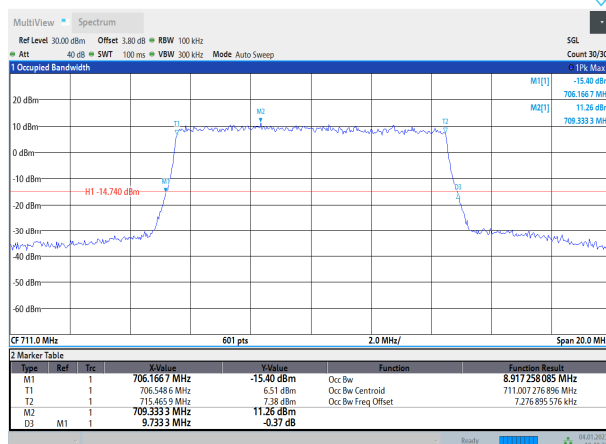
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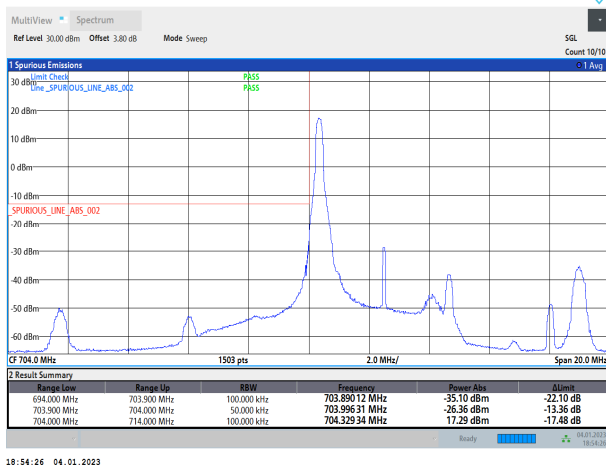
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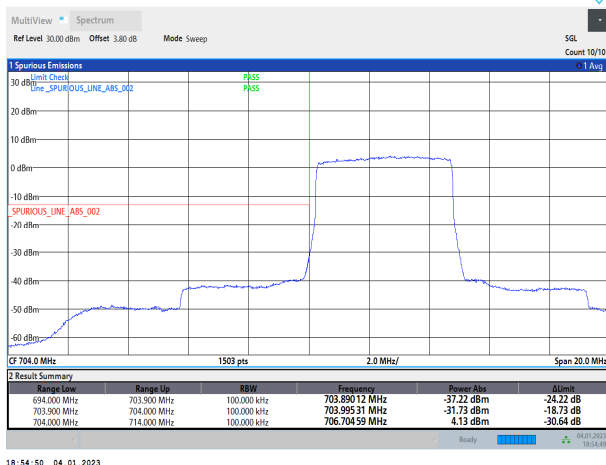
Band Edge

Test Graphs

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



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



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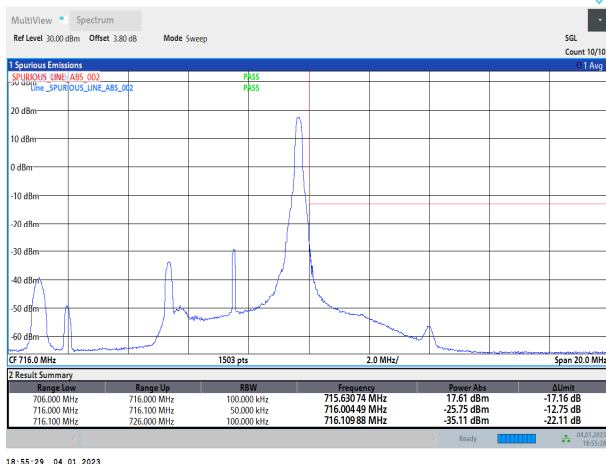
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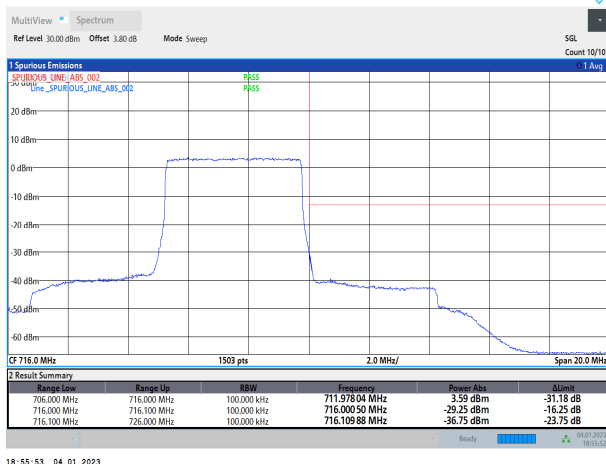
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Band17-5MHz-QPSK-23825-1RB#24



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



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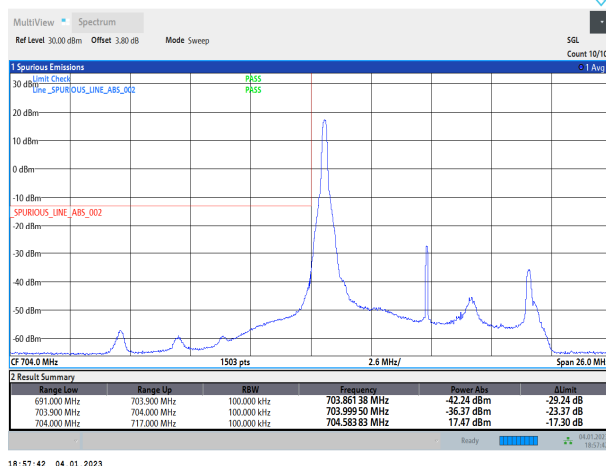
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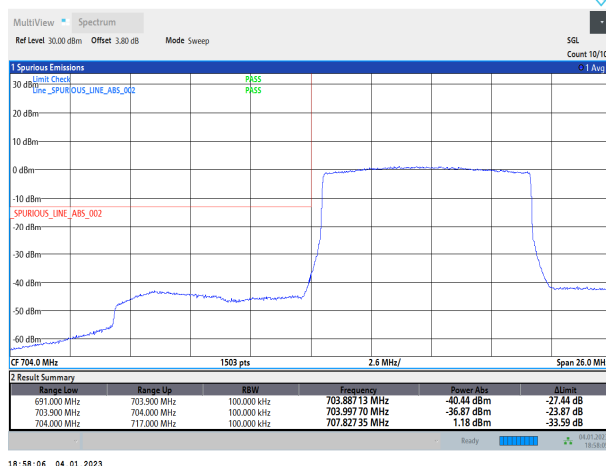
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Band17-10MHz-QPSK-23780-1RB#0



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



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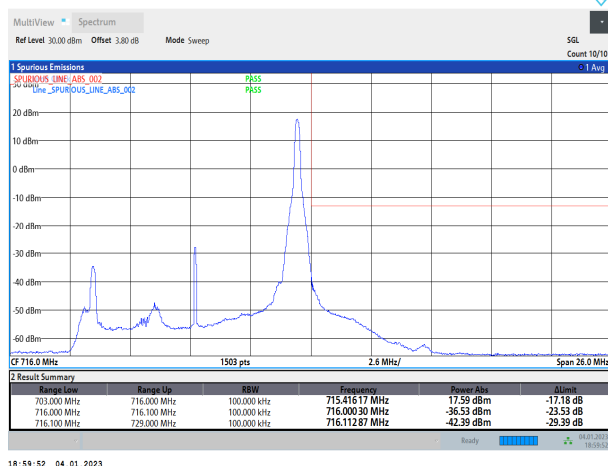
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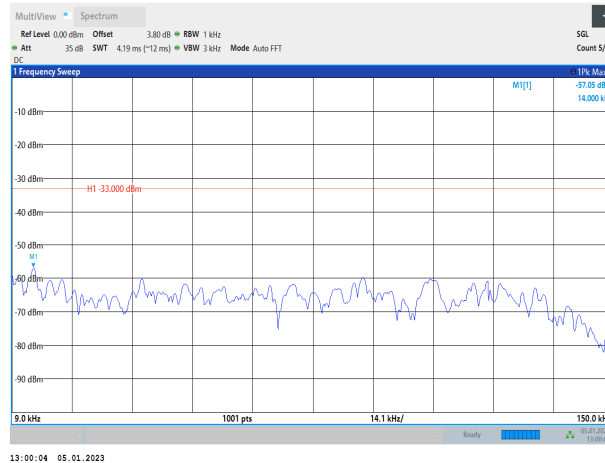
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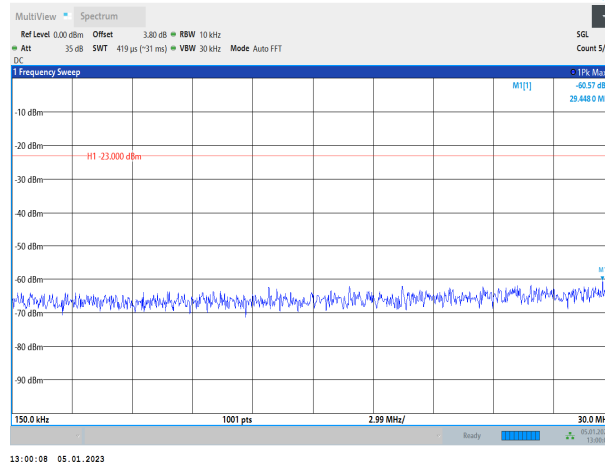
Conducted Spurious Emission

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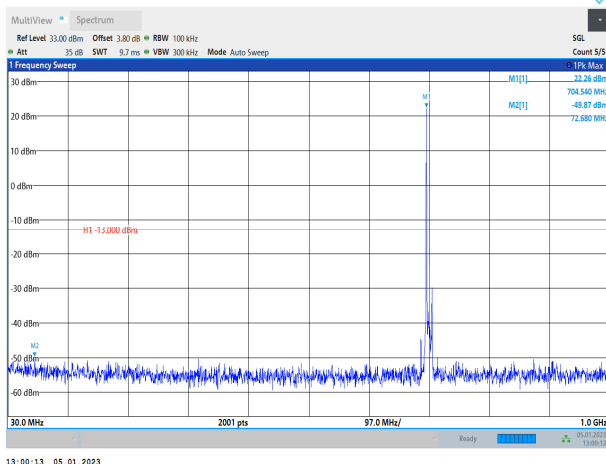
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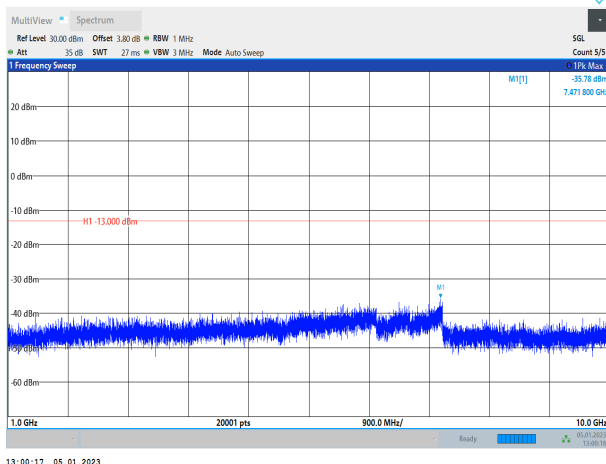
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Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



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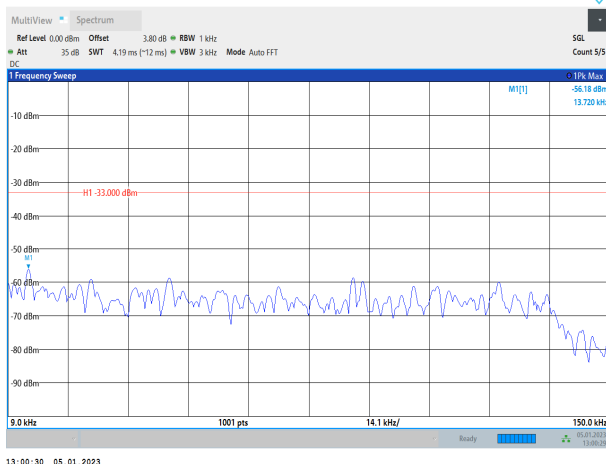
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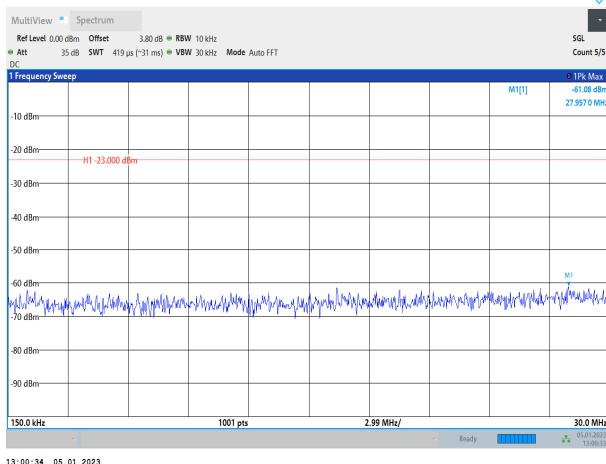
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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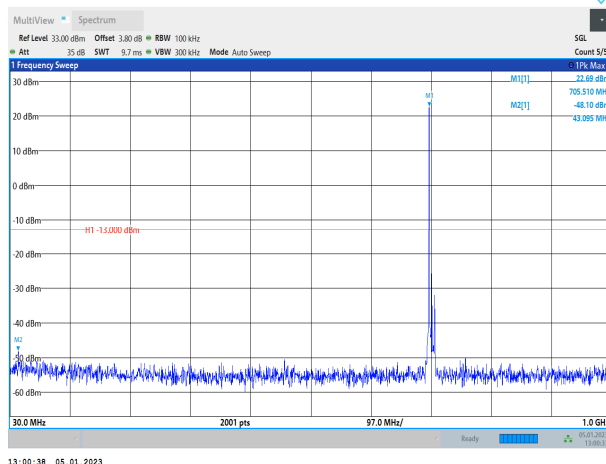
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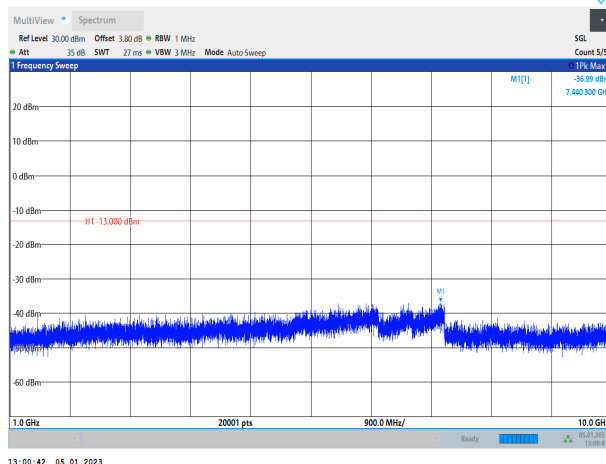
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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

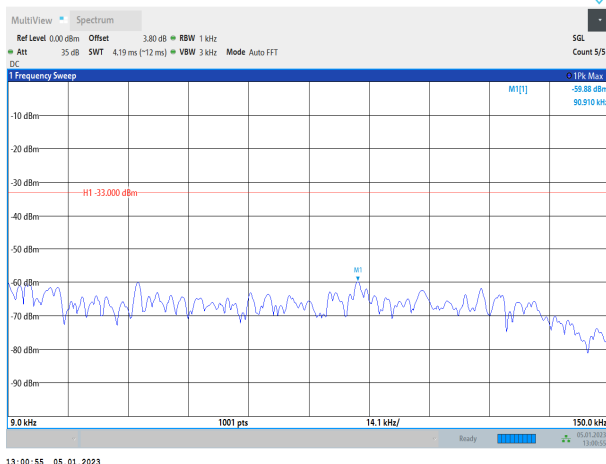


Report No.: SEWM2212000326RG01

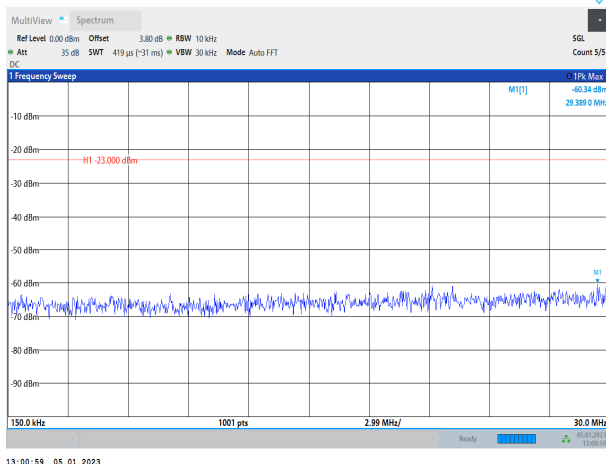
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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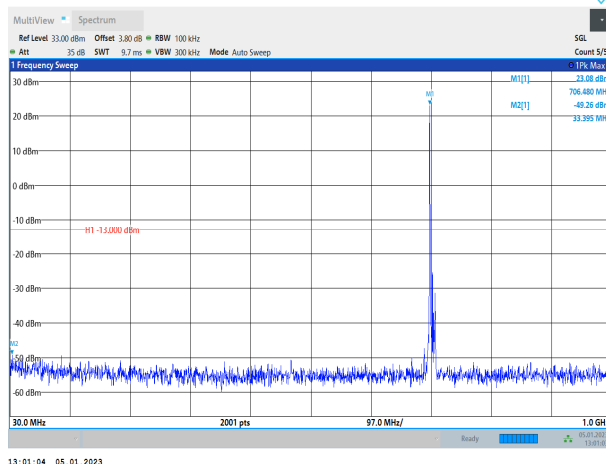
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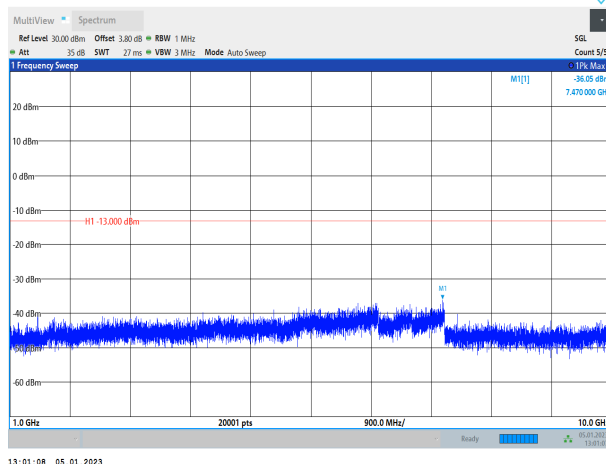
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	58.46	-48.03	25.61	-59.22	-13.00	46.22	147	13	Horizontal
2	2113.7700	41.98	-47.71	27.04	-73.95	-13.00	60.95	126	160	Horizontal
3	2818.3600	42.24	-46.85	28.56	-71.31	-13.00	58.31	258	186	Horizontal
4	3522.9500	42.39	-46.49	29.54	-69.82	-13.00	56.82	147	40	Horizontal
5	4227.5400	40.85	-45.91	31.16	-69.16	-13.00	56.16	136	334	Horizontal
6	4932.1300	41.35	-45.65	32.69	-66.87	-13.00	53.87	291	80	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	1409.1800	48.23	-48.03	25.61	-69.45	-13.00	56.45	125	105	Vertical
2	2113.7700	42.91	-47.71	27.04	-73.02	-13.00	60.02	144	347	Vertical
3	2818.3600	42.37	-46.85	28.56	-71.18	-13.00	58.18	148	66	Vertical
4	3522.9500	41.66	-46.49	29.54	-70.55	-13.00	57.55	175	38	Vertical
5	4227.5400	40.95	-45.91	31.16	-69.06	-13.00	56.06	156	213	Vertical
6	4932.1300	41.43	-45.65	32.69	-66.79	-13.00	53.79	263	293	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]	Height [cm]	Angle [°]	Polarity
1	1411.1800	57.63	-48.04	25.60	-60.06	-13.00	47.06	125	148	Horizontal
2	2116.7700	42.50	-47.70	27.05	-73.41	-13.00	60.41	144	360	Horizontal
3	2822.3600	42.52	-46.84	28.58	-71.00	-13.00	58.00	174	282	Horizontal
4	3527.9500	42.10	-46.48	29.55	-70.10	-13.00	57.10	156	359	Horizontal
5	4233.5400	40.77	-45.90	31.17	-69.22	-13.00	56.22	256	282	Horizontal
6	4939.1300	40.94	-45.67	32.71	-67.28	-13.00	54.28	291	121	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	1411.1800	46.52	-48.04	25.60	-71.17	-13.00	58.17	233	240	Vertical
2	2116.7700	42.37	-47.70	27.05	-73.54	-13.00	60.54	156	16	Vertical
3	2822.3600	42.44	-46.84	28.58	-71.08	-13.00	58.08	266	200	Vertical
4	3527.9500	41.84	-46.48	29.55	-70.36	-13.00	57.36	148	187	Vertical
5	4233.5400	40.77	-45.90	31.17	-69.22	-13.00	56.22	198	159	Vertical
6	4939.1300	41.45	-45.67	32.71	-66.77	-13.00	53.77	174	200	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]	Height [cm]	Angle [°]	Polarity
1	1413.1800	56.67	-48.04	25.60	-61.03	-13.00	48.03	211	142	Horizontal
2	2119.7700	43.73	-47.70	27.06	-72.17	-13.00	59.17	136	142	Horizontal
3	2826.3600	42.23	-46.83	28.60	-71.26	-13.00	58.26	256	248	Horizontal
4	3532.9500	41.81	-46.47	29.55	-70.37	-13.00	57.37	214	274	Horizontal
5	4239.5400	40.47	-45.89	31.18	-69.50	-13.00	56.50	188	355	Horizontal
6	4946.1300	41.08	-45.69	32.73	-67.14	-13.00	54.14	195	49	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	1413.1800	48.08	-48.04	25.60	-69.62	-13.00	56.62	248	109	Vertical
2	2119.7700	42.16	-47.70	27.06	-73.74	-13.00	60.74	142	135	Vertical
3	2826.3600	42.98	-46.83	28.60	-70.51	-13.00	57.51	166	54	Vertical
4	3532.9500	41.65	-46.47	29.55	-70.53	-13.00	57.53	248	188	Vertical
5	4239.5400	41.10	-45.89	31.18	-68.87	-13.00	55.87	175	80	Vertical
6	4946.1300	40.64	-45.69	32.73	-67.58	-13.00	54.58	133	135	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) - Pre-amplifier (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	-0.50	-0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	1.30	0.001831	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	1.30	0.001831	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	0.10	0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	1.70	0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.30	0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	1.10	0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.40	0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	1.80	0.002535	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.10	0.000141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-0.20	-0.000282	PASS

---End of Attachment---



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