

Report No.: SEWM2312000502RG01

Rev.: 01

Page: 1 of 24

Appendix B.8

LTE Band 13



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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
Band13	5MHz	QPSK	23205	1RB#0	23.50	18.17	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.81	18.48	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.43	18.10	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.60	17.27	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.62	18.29	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.84	18.51	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.47	18.14	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.67	17.34	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.54	18.21	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.75	18.42	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.48	18.15	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.64	17.31	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.75	17.42	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.07	17.74	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.63	17.30	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.67	16.34	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.89	17.56	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.11	17.78	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.78	17.45	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.74	16.41	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.76	17.43	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.08	17.75	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.67	17.34	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.71	16.38	34.77	PASS



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Report No.: SEWM2312000502RG01

Rev.: 01

Page: 3 of 24

Band13	5MHz	64QAM	23205	1RB#0	21.76	16.43	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.99	16.66	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.67	16.34	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.68	15.35	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.91	16.58	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.10	16.77	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.74	16.41	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.76	15.43	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.85	16.52	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.97	16.64	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.73	16.40	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.71	15.38	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.77	18.44	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.80	18.47	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.62	18.29	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.73	17.40	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.00	17.67	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.14	17.81	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.85	17.52	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.77	16.44	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.95	16.62	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.06	16.73	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.90	16.57	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.77	15.44	34.77	PASS



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Report No.: SEWM2312000502RG01
 Rev.: 01
 Page: 4 of 24

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.30	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.06	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.46	13	PASS



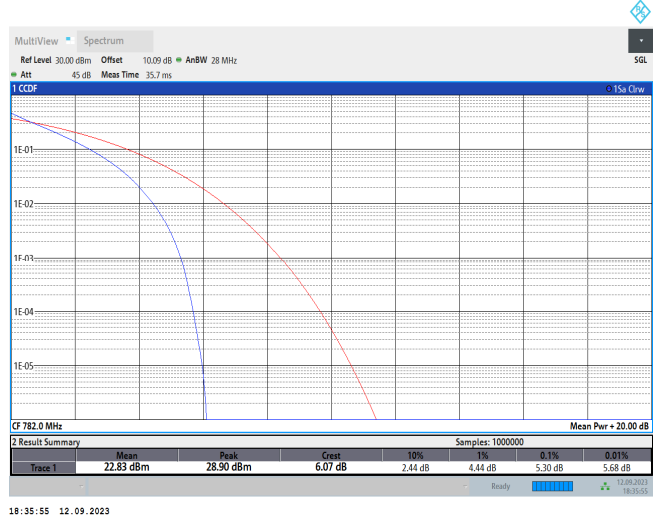
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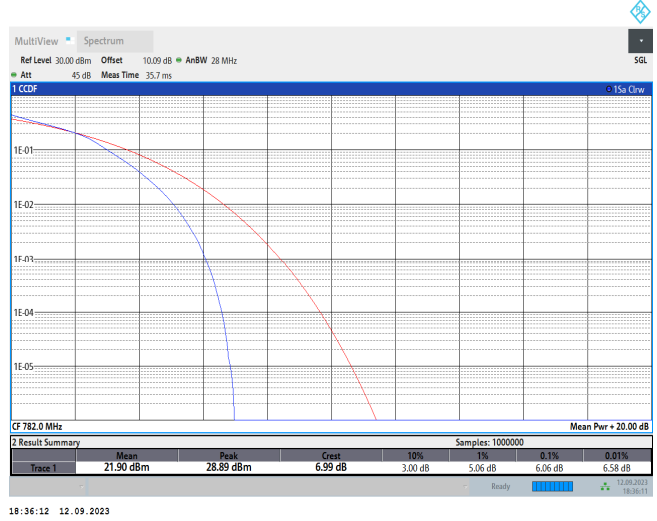
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0

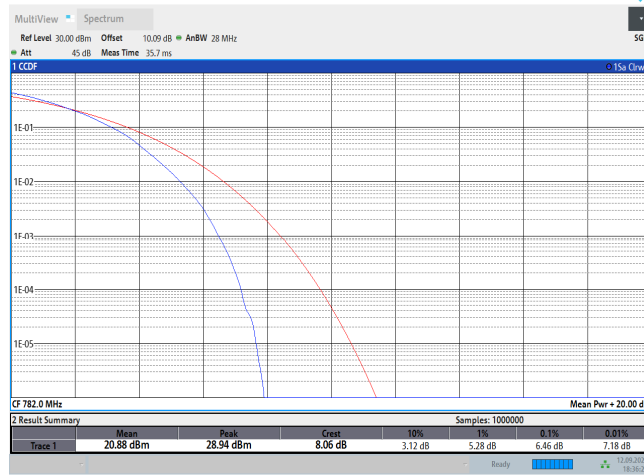


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.472	5.02	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.473	5.01	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.473	5.02	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.475	5.05	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.465	5.04	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.47	5.05	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.486	5.03	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.485	5.05	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.487	5.06	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.931	9.72	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.916	9.80	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.93	9.86	PASS



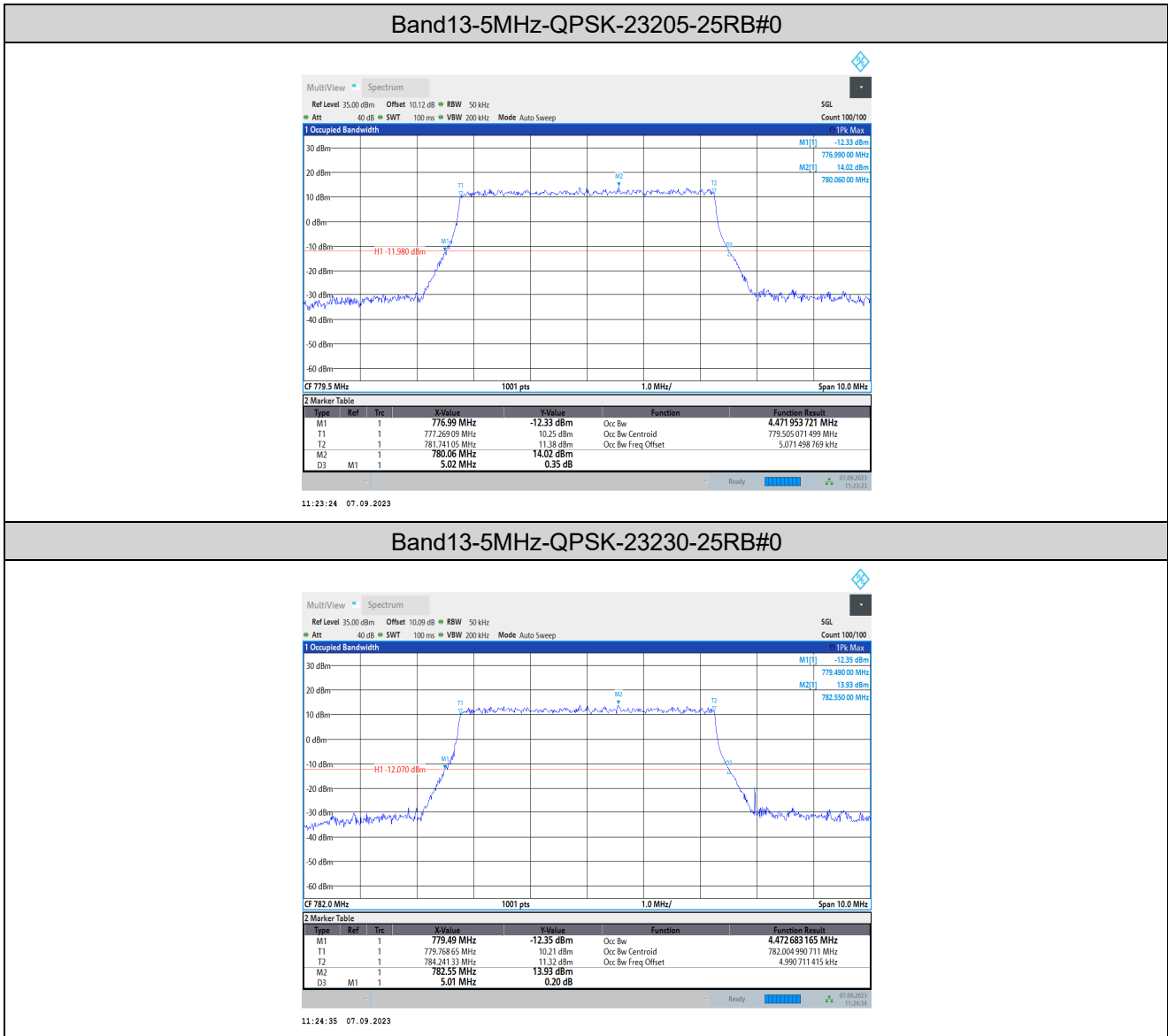
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Test Graphs



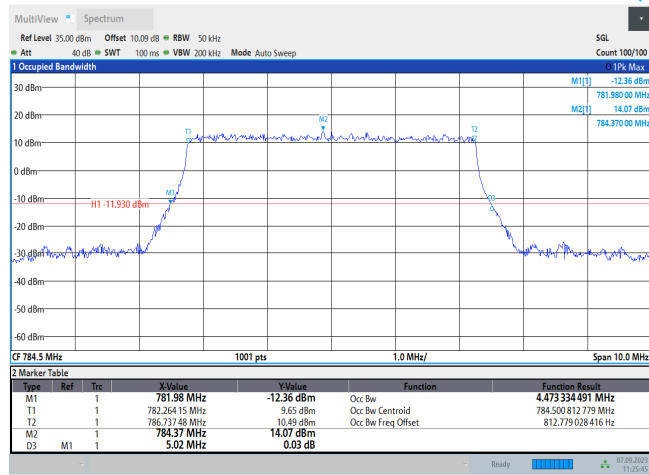
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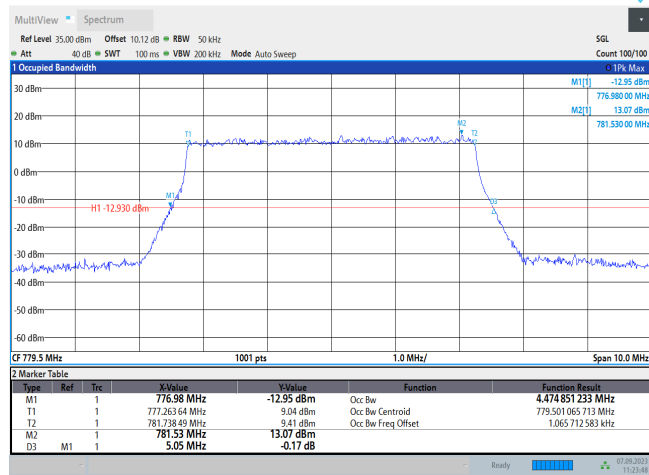
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Band13-5MHz-QPSK-23255-25RB#0



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Band13-5MHz-16QAM-23205-25RB#0



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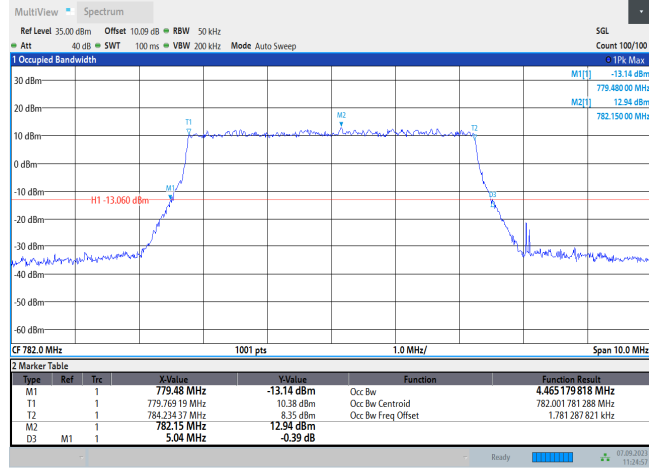
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Band13-5MHz-16QAM-23230-25RB#0



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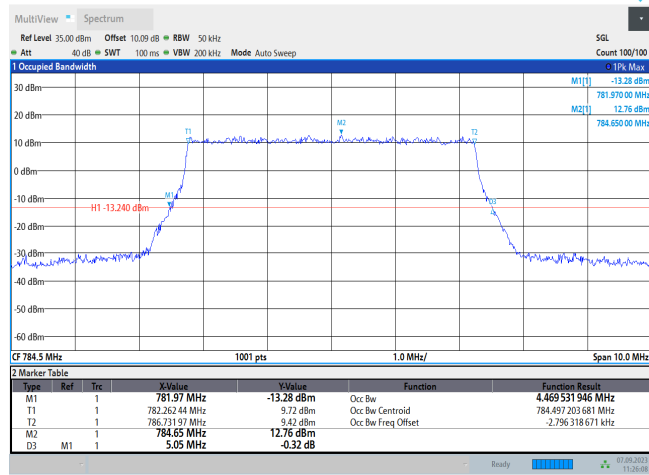


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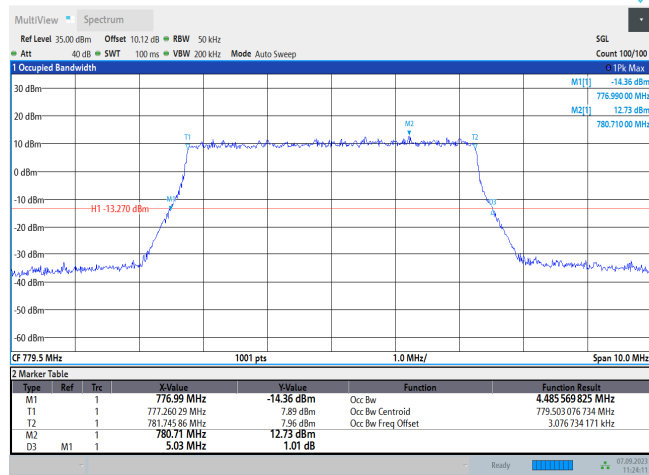
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Band13-5MHz-16QAM-23255-25RB#0



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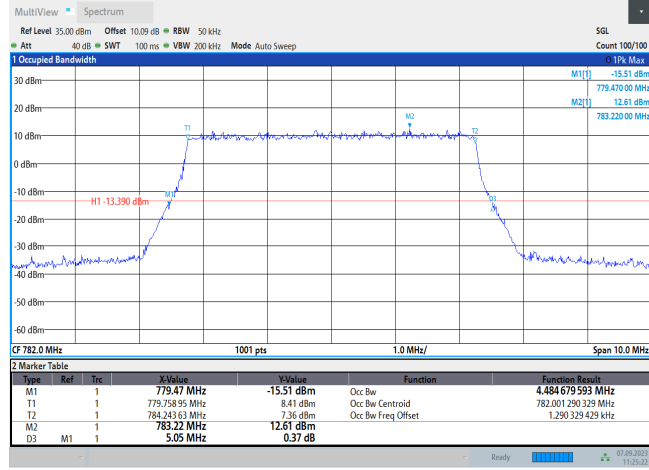
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Band13-5MHz-64QAM-23230-25RB#0



11:25:22 07-09-2023

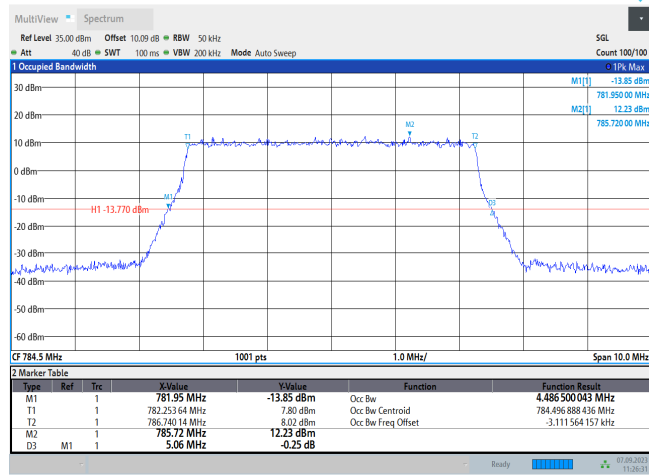


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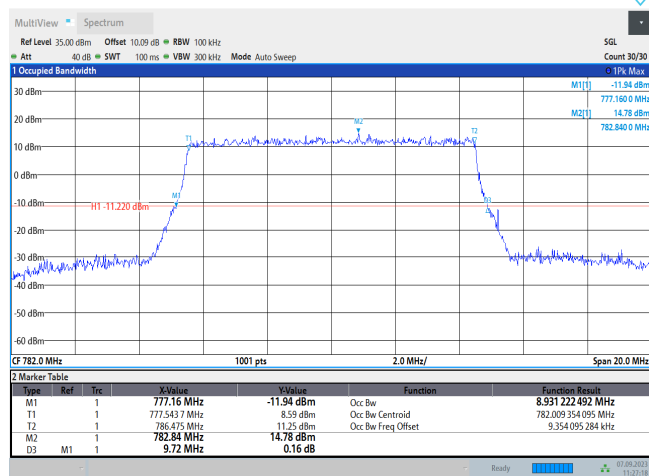
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Band13-5MHz-64QAM-23255-25RB#0



11:26:32 07.09.2023

Band13-10MHz-QPSK-23230-50RB#0



11:27:20 07.09.2023



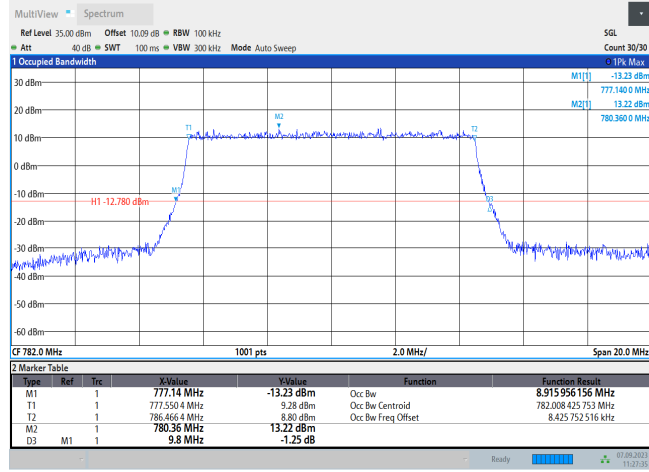
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Band13-10MHz-16QAM-23230-50RB#0



11:27:36 07-09-2023

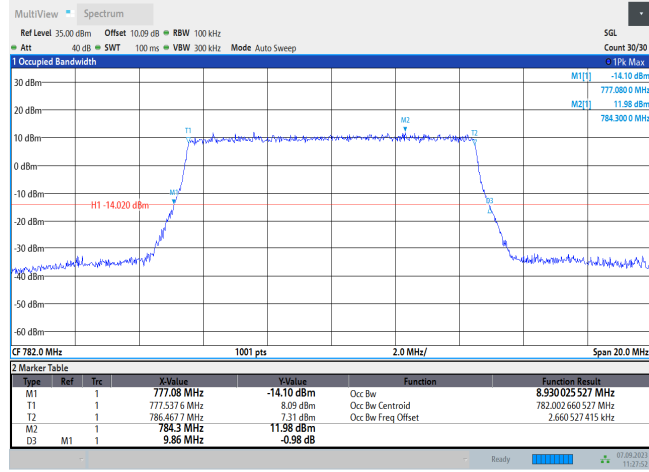


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Band13-10MHz-64QAM-23230-50RB#0



11:27:52 07.09.2023



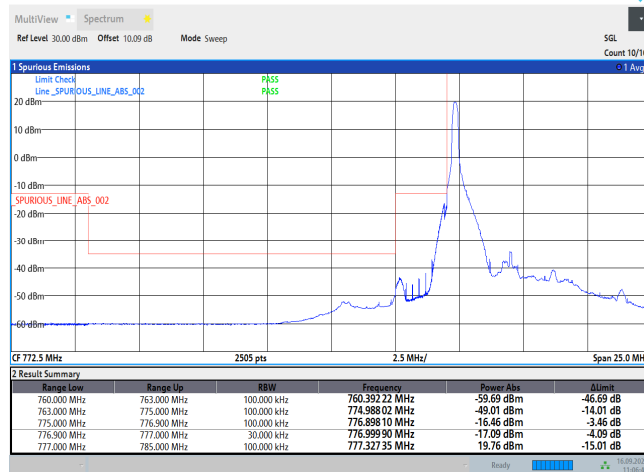
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Band Edge

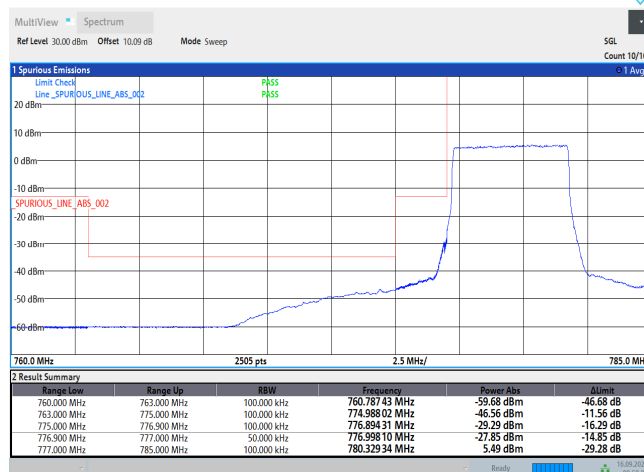
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



11:06:49 16.09.2023

Band13-5MHz-QPSK-23205-25RB#0



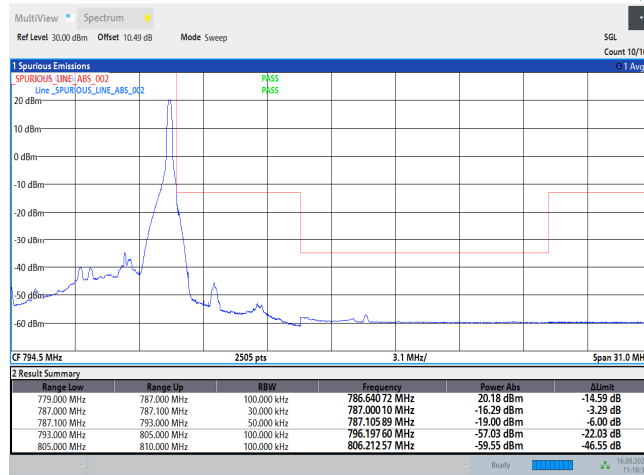
08:58:00 16.09.2023



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Band13-5MHz-QPSK-23255-1RB#24



11:10:37 16.09.2023

Band13-5MHz-QPSK-23255-25RB#0



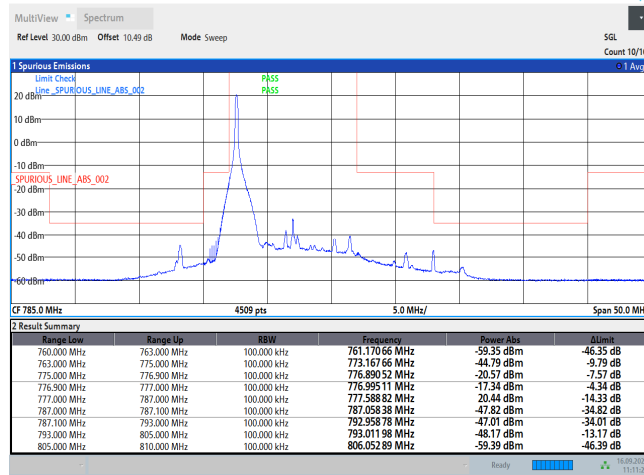
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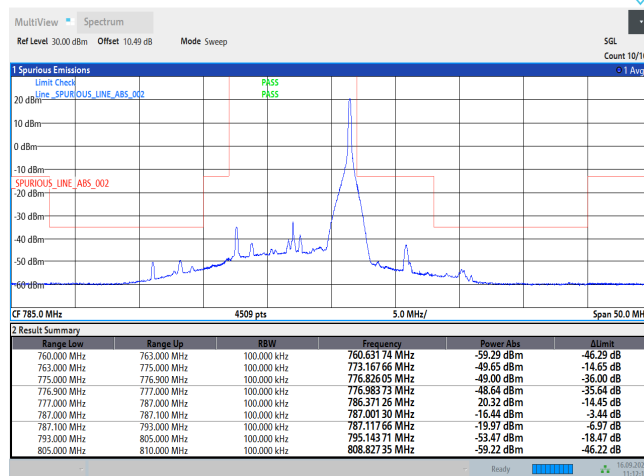
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Band13-10MHz-QPSK-23230-1RB#0



11:11:28 16.09.2023

Band13-10MHz-QPSK-23230-1RB#49



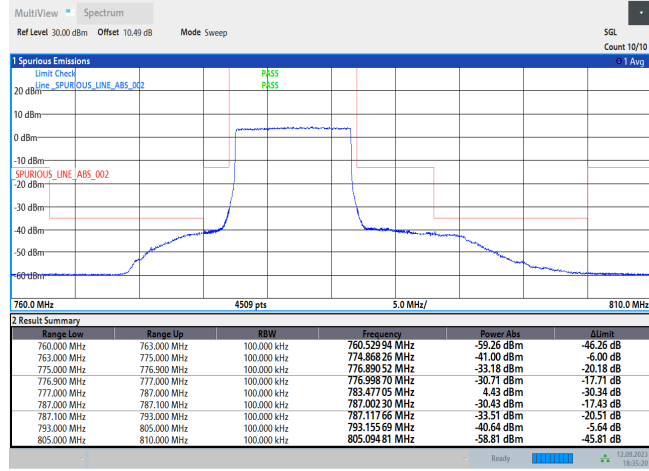
11:12:16 16.09.2023



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Band13-10MHz-QPSK-23230-50RB#0



18:35:20 12.09.2023



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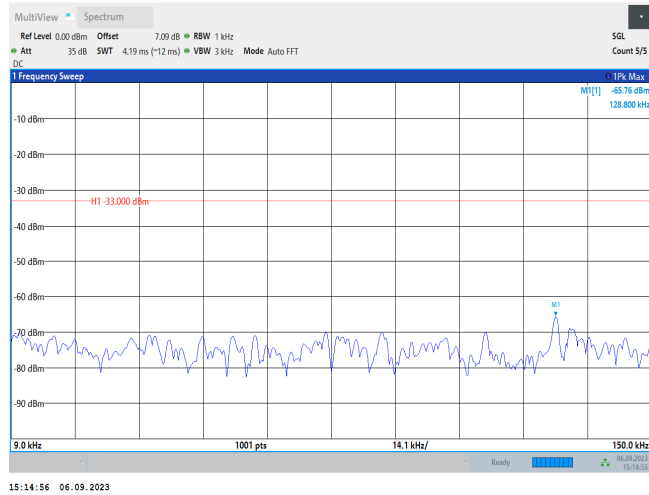
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Conducted Spurious Emission

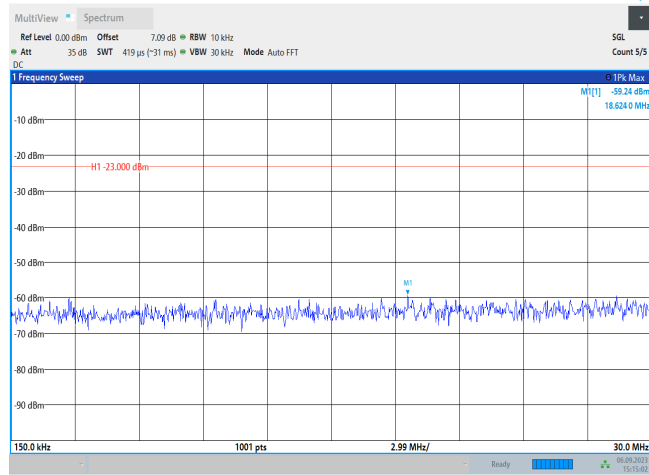
Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



15:14:56 06.09.2023

Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



15:15:03 06.09.2023



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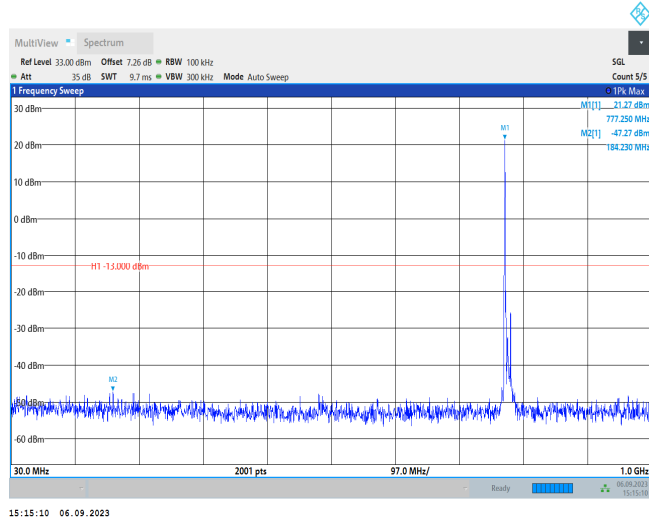
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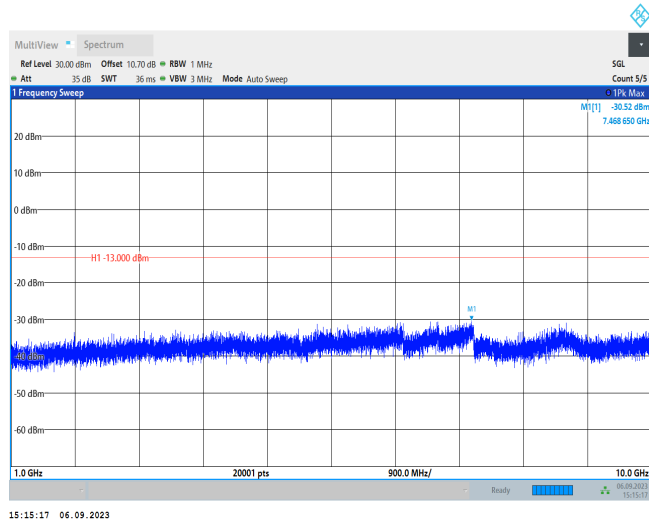
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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Report No.: SEWM2312000502RG01

Rev.: 01

Page: 22 of 24

Field Strength of Spurious Radiation(SKU3):

Test Band = LTE Band 13 10M_ TM1

Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	66.24	-49.89	24.92	-53.99	-13.00	40.99	Horizontal
2	2332.77	70.93	-49.25	27.10	-46.48	-13.00	33.48	Horizontal
3	3110.36	44.98	-48.89	28.54	-70.62	-13.00	57.62	Horizontal
4	3887.95	46.56	-48.43	29.24	-67.88	-13.00	54.88	Horizontal
5	4665.54	44.07	-48.07	30.70	-68.56	-13.00	55.56	Horizontal
6	5443.13	43.64	-47.42	32.56	-66.47	-13.00	53.47	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.18	53.70	-49.89	24.92	-66.52	-13.00	53.52	Vertical
2	2332.77	69.94	-49.25	27.10	-47.47	-13.00	34.47	Vertical
3	3110.36	44.61	-48.89	28.54	-70.99	-13.00	57.99	Vertical
4	3887.95	52.07	-48.43	29.24	-62.37	-13.00	49.37	Vertical
5	4665.54	44.48	-48.07	30.70	-68.15	-13.00	55.15	Vertical
6	5443.13	43.46	-47.42	32.56	-66.65	-13.00	53.65	Vertical



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Test Band = LTE Band 13 5M_ TM1
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.68	63.29	-49.89	24.94	-56.92	-40.00	26.92	Horizontal
2	2339.52	65.41	-49.27	27.11	-52.01	-13.00	39.01	Horizontal
3	3119.36	44.57	-48.86	28.55	-71.00	-13.00	58.00	Horizontal
4	3899.2	47.27	-48.43	29.26	-67.16	-13.00	54.16	Horizontal
5	4679.04	43.61	-48.07	30.73	-68.99	-13.00	55.99	Horizontal
6	5458.88	43.79	-47.41	32.60	-66.28	-13.00	53.28	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.68	54.74	-49.89	24.94	-65.47	-40.00	25.47	Vertical
2	2339.52	66.98	-49.27	27.11	-50.44	-13.00	37.44	Vertical
3	3119.36	44.08	-48.86	28.55	-71.49	-13.00	58.49	Vertical
4	3899.2	48.00	-48.43	29.26	-66.43	-13.00	53.43	Vertical
5	4679.04	43.38	-48.07	30.73	-69.22	-13.00	56.22	Vertical
6	5458.88	43.69	-47.41	32.60	-66.38	-13.00	53.38	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-6.47	-0.008274	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-5.66	-0.007238	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-5.75	-0.007353	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-5.15	-0.006586	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-9.03	-0.011547	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-5.22	-0.006675	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-5.04	-0.006445	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-8.34	-0.010665	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-5.24	-0.006701	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-4.23	-0.005409	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-9.01	-0.011522	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-9.44	-0.012072	PASS

---End of Attachment---



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