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# Appendix B.8

## LTE Band 13



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Wireless Laboratory

## 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
Band13	5MHz	64QAM	23205	1RB#0	21.76	16.43	34.77	PASS



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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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## 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

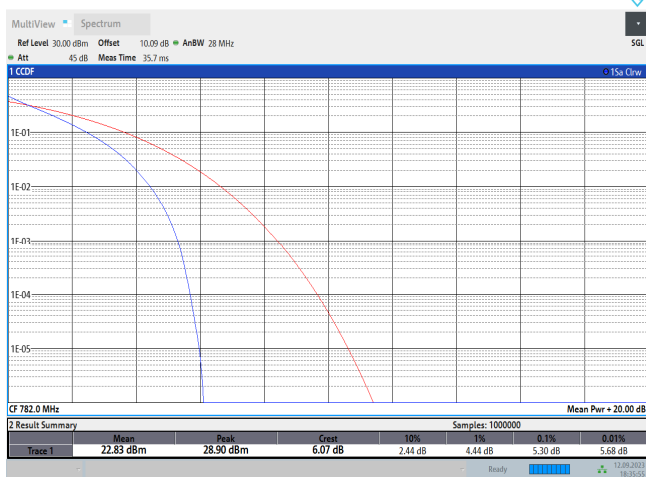


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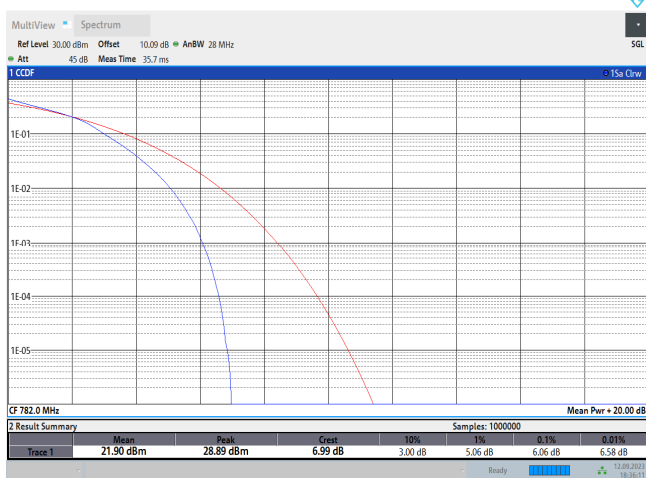
Test Graphs

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



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



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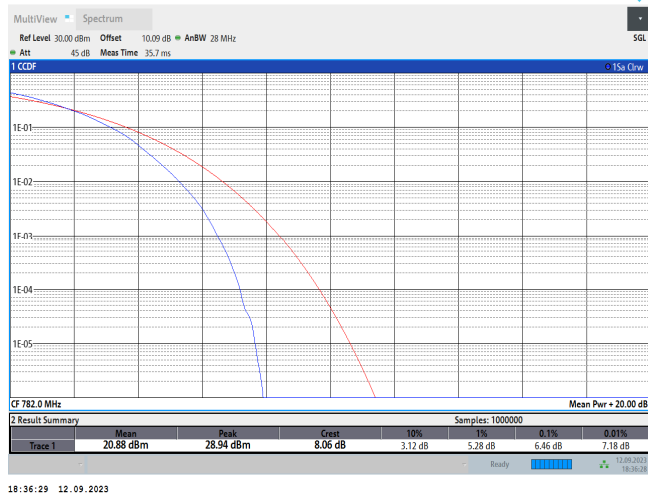


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Band13-10MHz-64QAM-23230-50RB#0



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 Wireless Laboratory

## 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



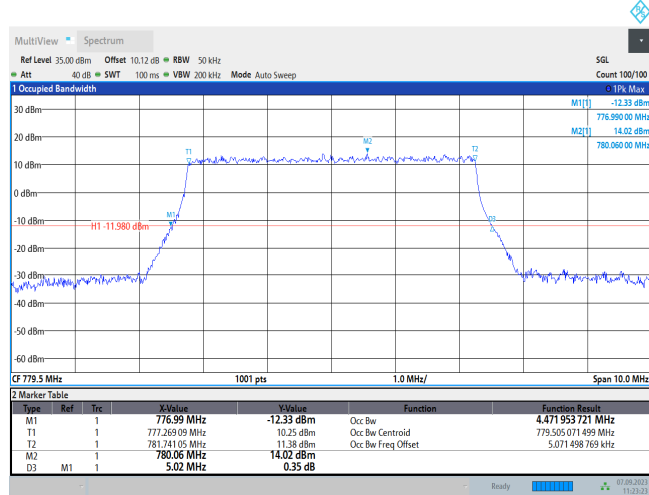
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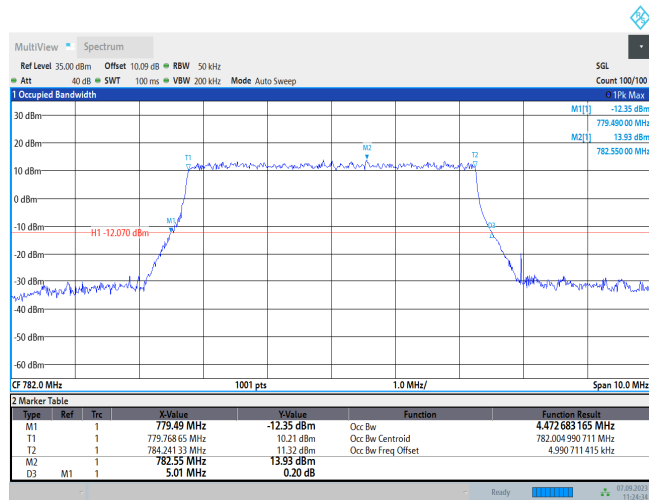


Test Graphs

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



Band13-5MHz-QPSK-23230-25RB#0

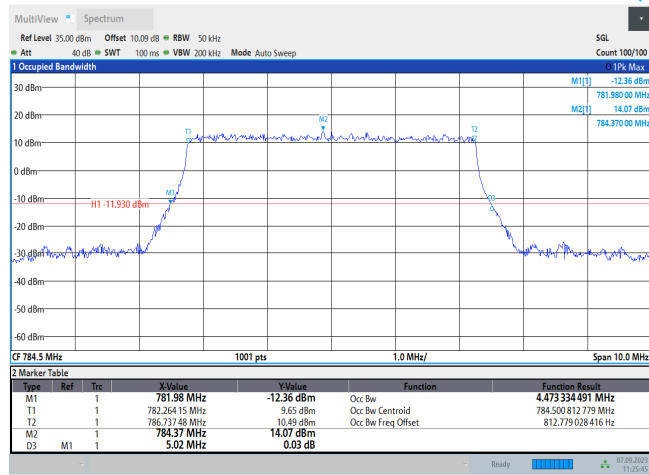


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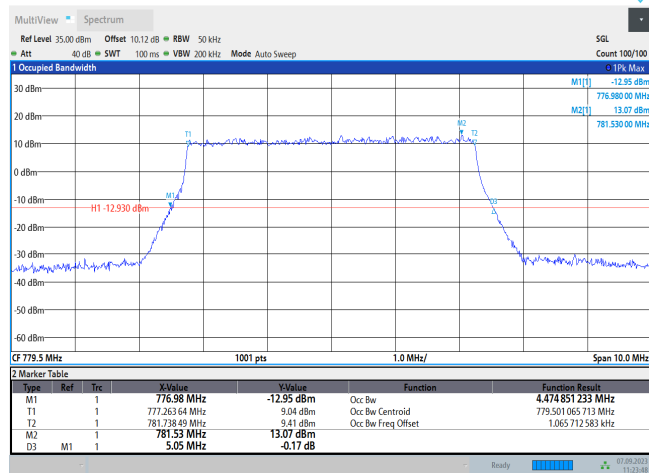


Band13-5MHz-QPSK-23255-25RB#0



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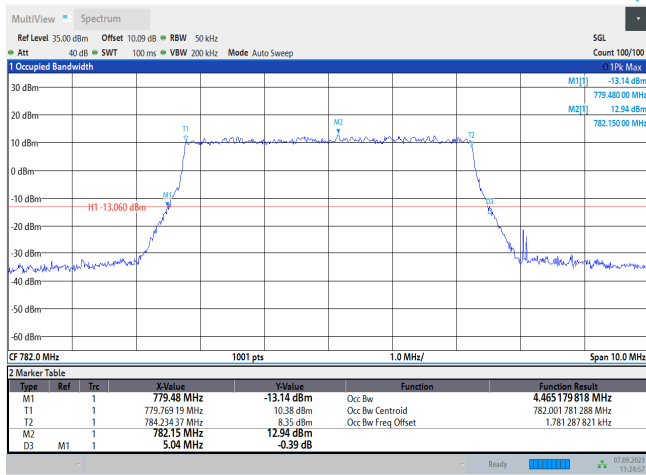
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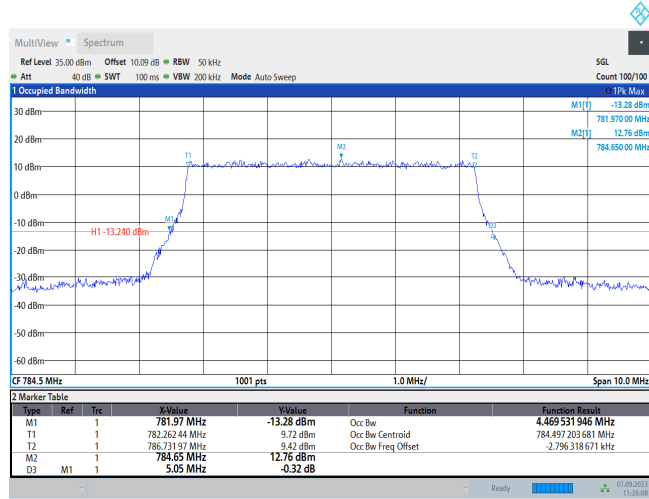
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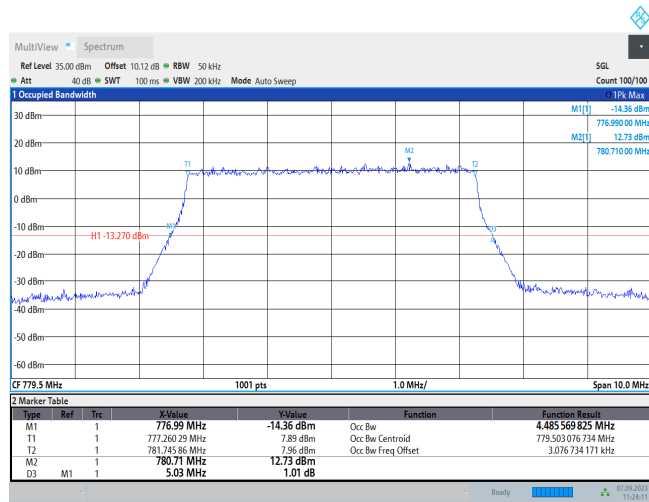
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Band13-5MHz-16QAM-23255-25RB#0



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Band13-5MHz-64QAM-23205-25RB#0

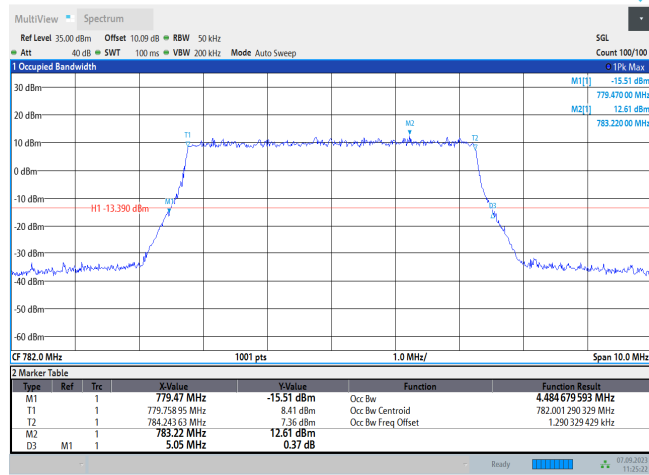


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Band13-5MHz-64QAM-23230-25RB#0



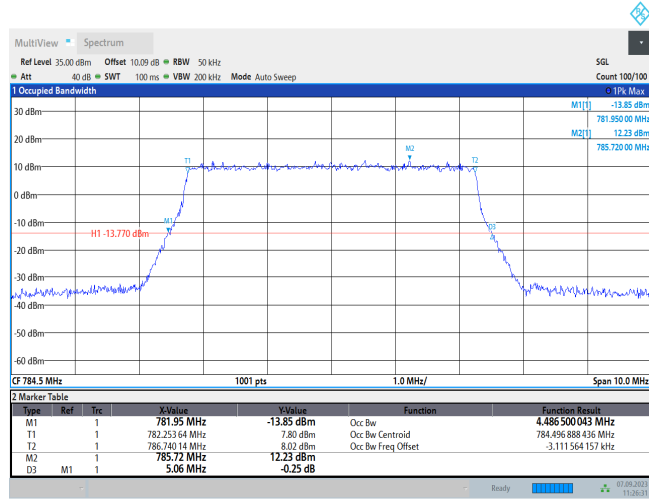
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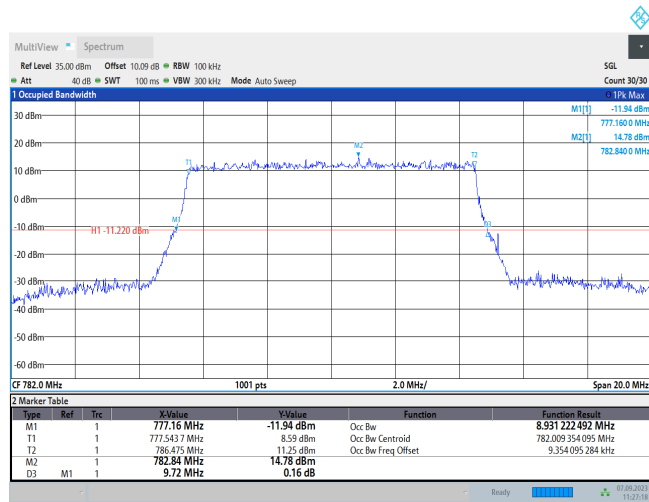
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Band13-5MHz-64QAM-23255-25RB#0



11:26:32 07.09.2023

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



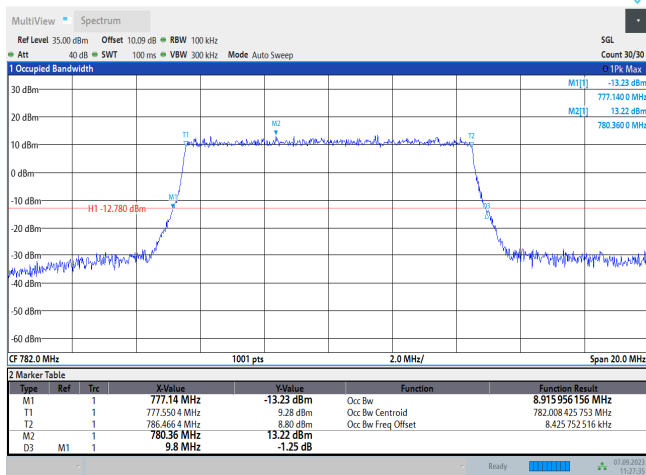
11:27:20 07.09.2023



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



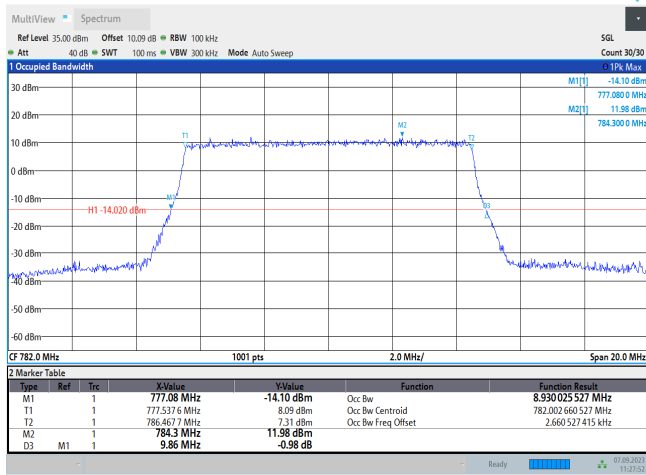
11:27:36 07.09.2023



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



11:27:52 07.09.2023



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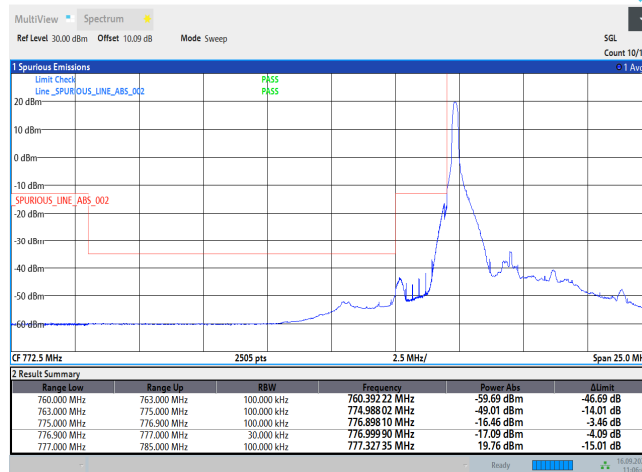
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## Band Edge

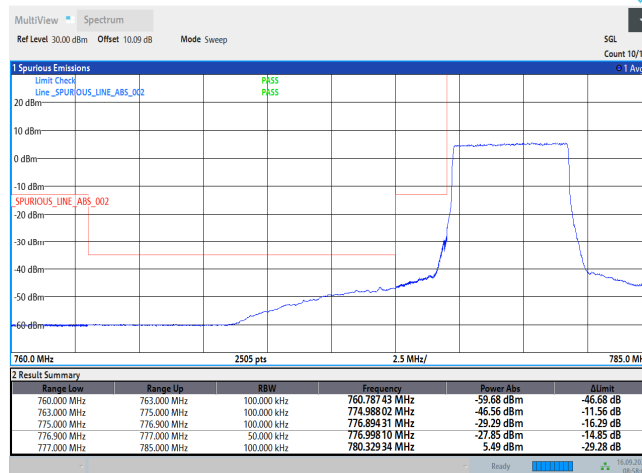
## Test Graphs

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



11:06:49 16.09.2023

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



08:58:00 16.09.2023

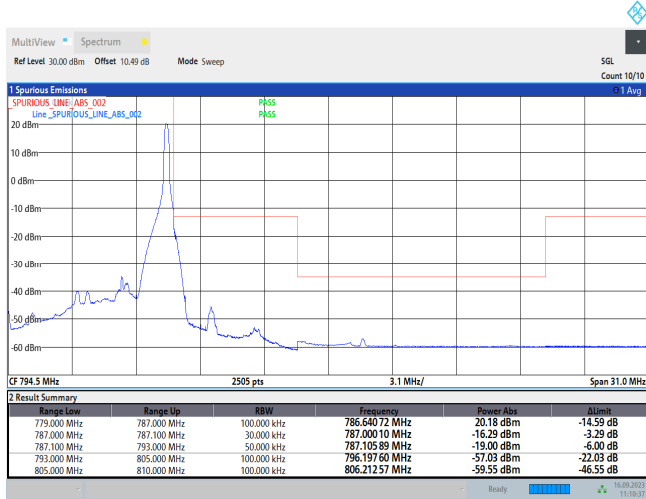


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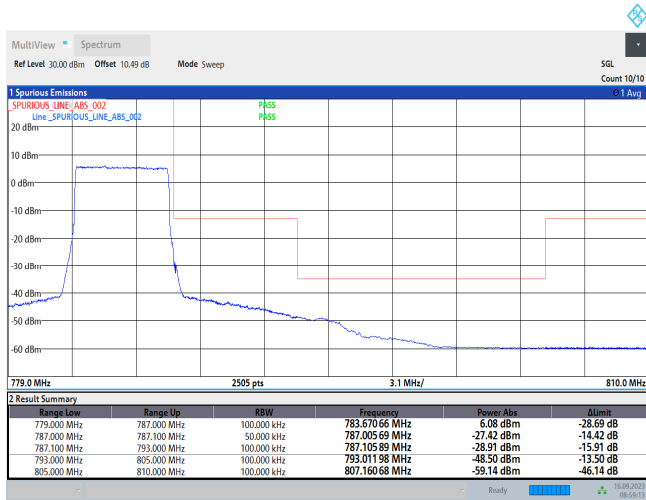
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Band13-5MHz-QPSK-23255-1RB#24



11:10:37 16.09.2023

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



08:59:14 16.09.2023

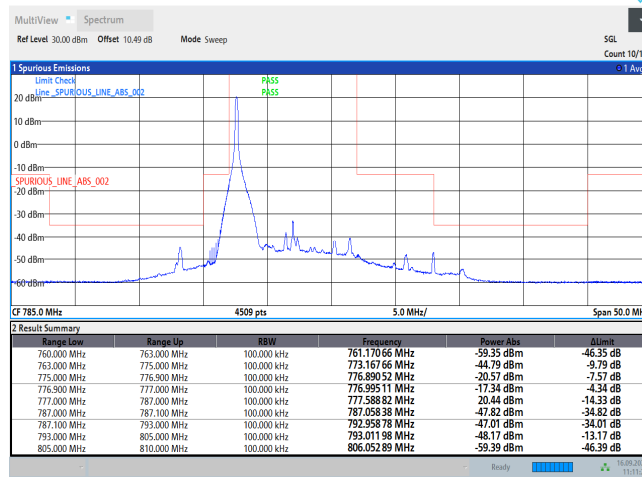


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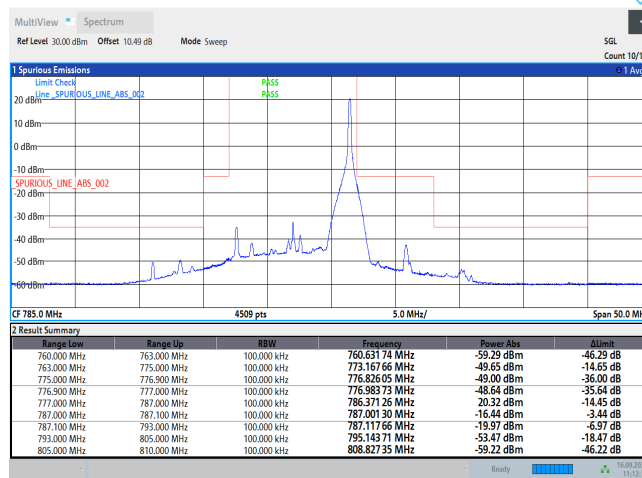
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Band13-10MHz-QPSK-23230-1RB#0



11:11:28 16.09.2023

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

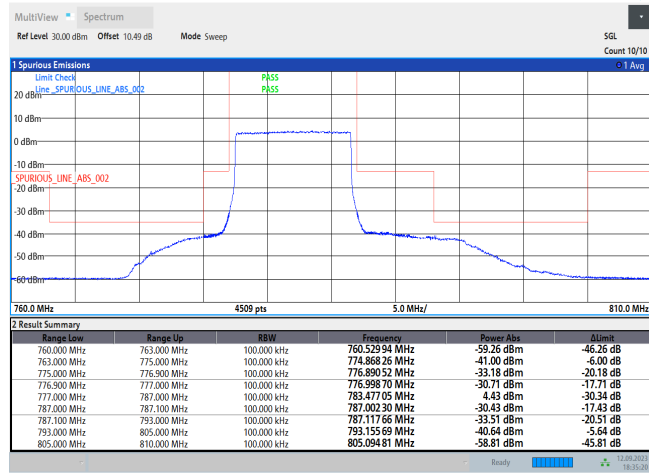


11:12:16 16.09.2023



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



18:35:20 12.09.2023



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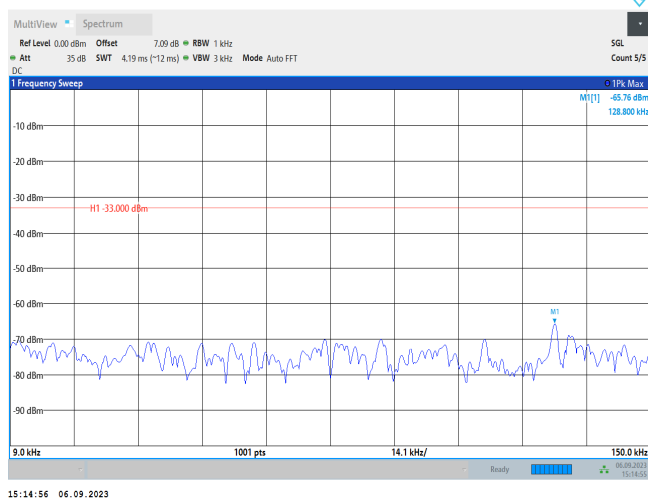
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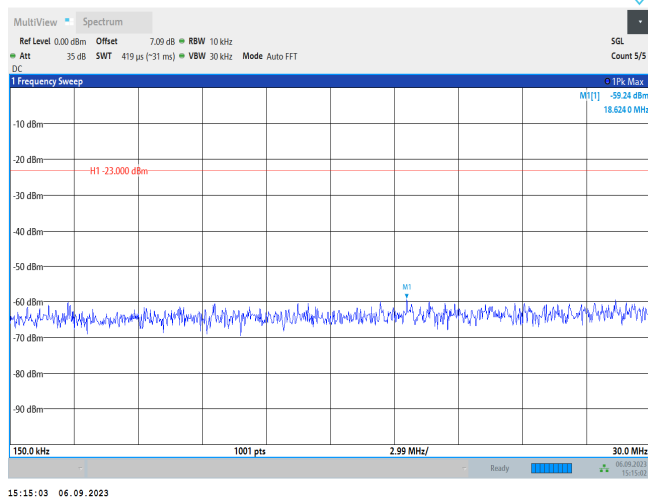
## Conducted Spurious Emission

### Test Graphs

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



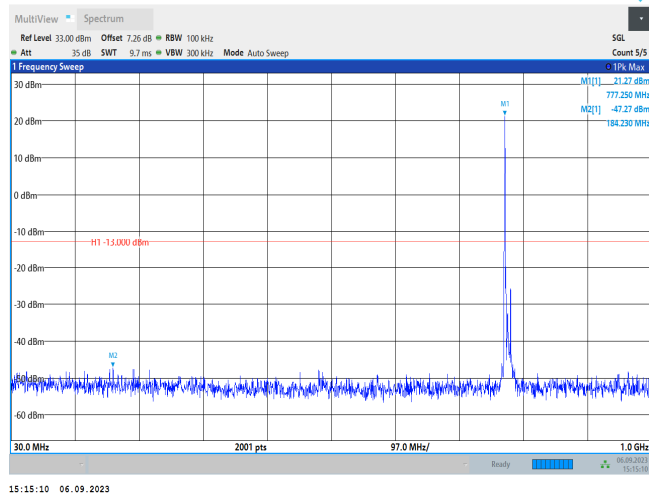
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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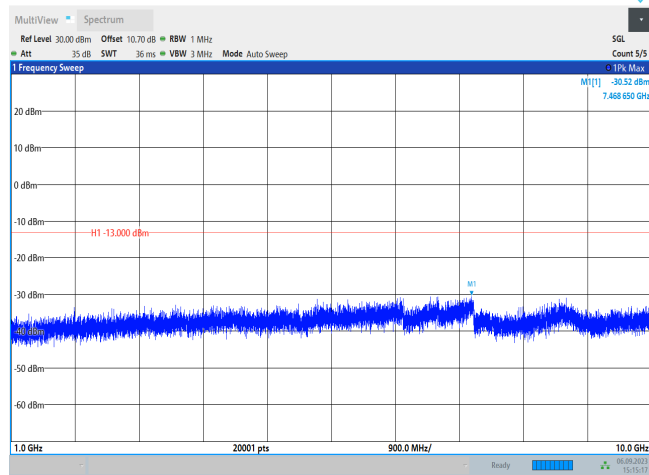
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



15:15:10 06.09.2023

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



15:15:17 06.09.2023



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## Field Strength of Spurious Radiation

Test Band = LTE\_13-5MHz

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	49.73	-47.61	24.28	-68.86	-13.00	55.86	Horizontal
2	1596.5	47.20	-47.61	25.04	-70.63	-40.00	30.63	Horizontal
3	2332	59.35	-46.63	27.42	-55.12	-13.00	42.12	Horizontal
4	4411	46.48	-43.25	30.10	-61.93	-13.00	48.93	Horizontal
5	7414.5	43.30	-38.35	36.73	-53.58	-13.00	40.58	Horizontal
6	9917.5	41.52	-35.36	38.62	-50.48	-13.00	37.48	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5	52.12	-47.61	24.28	-66.47	-13.00	53.47	Vertical
2	1593.5	47.44	-47.61	24.98	-70.45	-40.00	30.45	Vertical
3	2332	56.52	-46.63	27.42	-57.95	-13.00	44.95	Vertical
4	3664	46.88	-44.48	29.30	-63.56	-13.00	50.56	Vertical
5	6072.5	44.37	-40.52	33.46	-57.95	-13.00	44.95	Vertical
6	9913	41.06	-35.34	38.61	-50.93	-13.00	37.93	Vertical



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Test Band = LTE\_13\_5MHz

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	52.90	-47.61	24.37	-65.60	-40.00	25.60	Horizontal
2	2339.5	58.87	-46.63	27.50	-55.52	-13.00	42.52	Horizontal
3	3693	46.98	-44.48	29.30	-63.46	-13.00	50.46	Horizontal
4	6044	44.32	-40.61	33.44	-58.11	-13.00	45.11	Horizontal
5	7484	43.05	-38.38	36.87	-53.72	-13.00	40.72	Horizontal
6	9911.5	41.16	-35.33	38.61	-50.82	-13.00	37.82	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5	49.89	-47.61	24.37	-68.61	-40.00	28.61	Vertical
2	2339.5	56.10	-46.63	27.50	-58.29	-13.00	45.29	Vertical
3	3680	46.84	-44.48	29.30	-63.60	-13.00	50.60	Vertical
4	6015	44.90	-40.70	33.15	-57.91	-13.00	44.91	Vertical
5	7410.5	43.47	-38.35	36.72	-53.42	-13.00	40.42	Vertical
6	9916.5	41.35	-35.35	38.62	-50.64	-13.00	37.64	Vertical



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t (86-29) 6282 7885 sgs.china@sgs.com

Test Band = LTE\_13\_5MHz

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	49.92	-47.61	24.46	-68.49	-40.00	28.49	Horizontal
2	2347	58.50	-46.63	27.57	-55.82	-13.00	42.82	Horizontal
3	3044	46.98	-45.77	28.78	-65.27	-13.00	52.27	Horizontal
4	3966	46.15	-44.11	29.87	-63.35	-13.00	50.35	Horizontal
5	6029.5	44.38	-40.65	33.30	-58.23	-13.00	45.23	Horizontal
6	7870.5	42.34	-37.60	36.68	-53.84	-13.00	40.84	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5	52.47	-47.61	24.46	-65.94	-40.00	25.94	Vertical
2	2347	57.53	-46.63	27.57	-56.79	-13.00	43.79	Vertical
3	3709	46.68	-44.54	29.35	-63.77	-13.00	50.77	Vertical
4	5166	45.40	-42.55	31.83	-60.58	-13.00	47.58	Vertical
5	7503	43.13	-38.39	36.87	-53.65	-13.00	40.65	Vertical
6	9916.5	41.33	-35.35	38.62	-50.66	-13.00	37.66	Vertical



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Test Band = LTE\_13\_10MHz

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	51.58	-47.61	24.29	-67.00	-13.00	54.00	Horizontal
2	1598.5	47.44	-47.61	25.07	-70.36	-40.00	30.36	Horizontal
3	2332.5	57.45	-46.63	27.43	-57.01	-13.00	44.01	Horizontal
4	3952	46.28	-44.17	29.90	-63.25	-13.00	50.25	Horizontal
5	6030	44.26	-40.65	33.30	-58.35	-13.00	45.35	Horizontal
6	9020	42.05	-36.00	36.62	-52.59	-13.00	39.59	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555	51.79	-47.61	24.29	-66.79	-13.00	53.79	Vertical
2	1602	47.44	-47.61	25.12	-70.31	-40.00	30.31	Vertical
3	2332.5	55.62	-46.63	27.43	-58.84	-13.00	45.84	Vertical
4	3700	47.02	-44.48	29.30	-63.42	-13.00	50.42	Vertical
5	6037.5	44.41	-40.63	33.38	-58.10	-13.00	45.10	Vertical
6	9066.5	42.11	-35.68	36.67	-52.16	-13.00	39.16	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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