



Report No.: SEWA2211000080RG01

Rev.: 01

Page: 1 of 24

Appendix B.8

LTE Band 13



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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	23.07	20.6	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.29	20.82	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.12	20.65	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.28	19.81	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.09	20.62	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.14	20.67	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.12	20.65	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.14	19.67	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.13	20.66	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.15	20.68	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.06	20.59	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.21	19.74	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.47	20	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.58	20.11	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.57	20.1	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.32	18.85	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.42	19.95	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.46	19.99	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.37	19.9	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.19	18.72	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.43	19.96	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.49	20.02	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.3	19.83	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.19	18.72	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.33	18.86	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.5	19.03	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.21	18.74	34.77	PASS



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Report No.: SEWA2211000080RG01

Rev.: 01

Page: 3 of 24

Band13	5MHz	64QAM	23205	25RB#0	20.28	17.81	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.32	18.85	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.43	18.96	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.17	18.7	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.28	17.81	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.5	19.03	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.54	19.07	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.31	18.84	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.18	17.71	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.12	20.65	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.2	20.73	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.05	20.58	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.29	19.82	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.66	20.19	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.46	19.99	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.39	19.92	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.09	18.62	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.26	18.79	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.41	18.94	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.18	18.71	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.13	17.66	34.77	PASS



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Report No.: SEWA2211000080RG01

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	5.60	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.46	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.92	13	PASS



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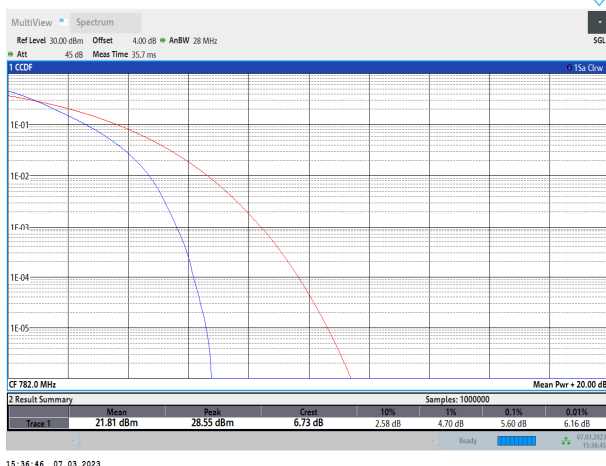
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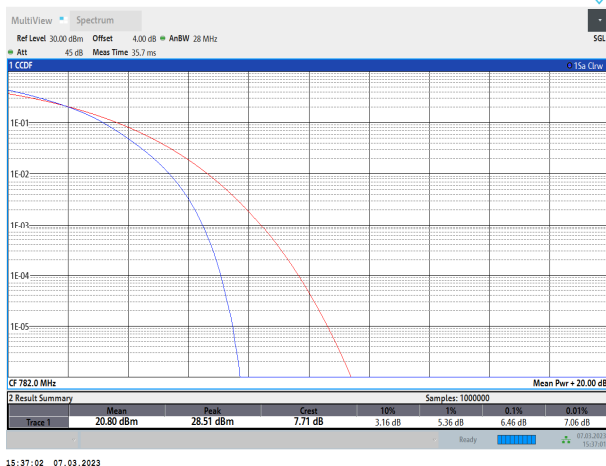
Page: 5 of 24

Test Graphs

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



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



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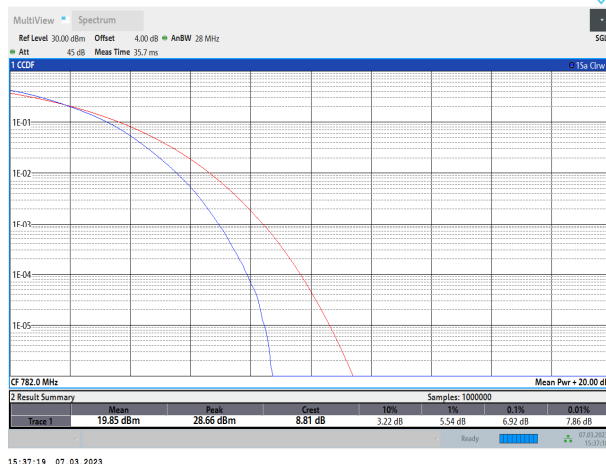
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Report No.: SEWA2211000080RG01

Rev.: 01

Page: 6 of 24

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Page: 7 of 24

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	4.462	4.83	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.468	4.86	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.475	4.91	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.463	4.88	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.465	4.89	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.473	4.92	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.469	4.89	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.479	4.90	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.484	4.92	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.907	9.58	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.896	9.58	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.905	9.62	PASS



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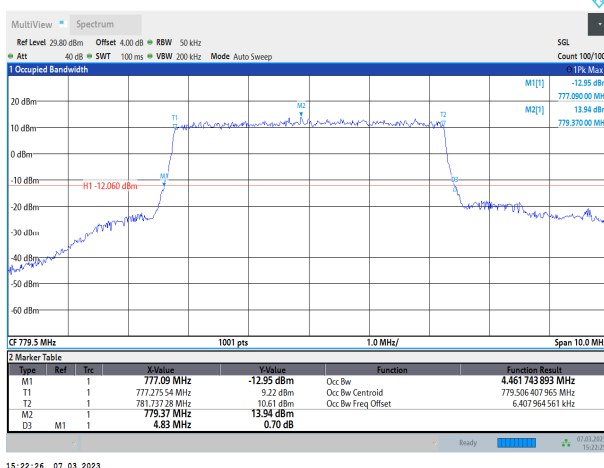
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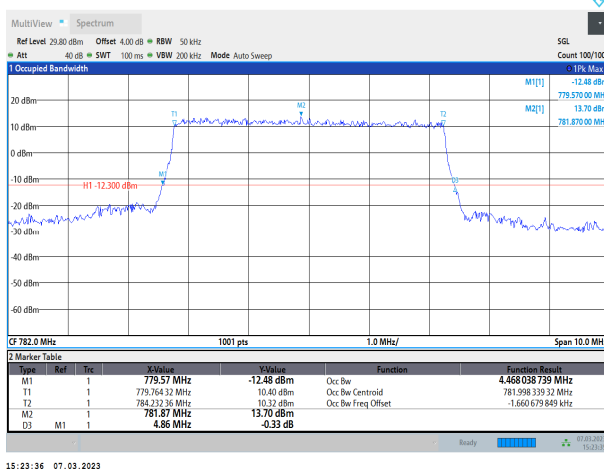
Page: 8 of 24

Test Graphs

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



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

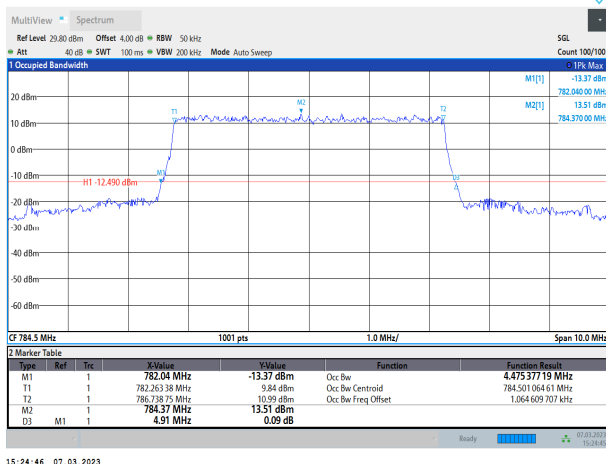


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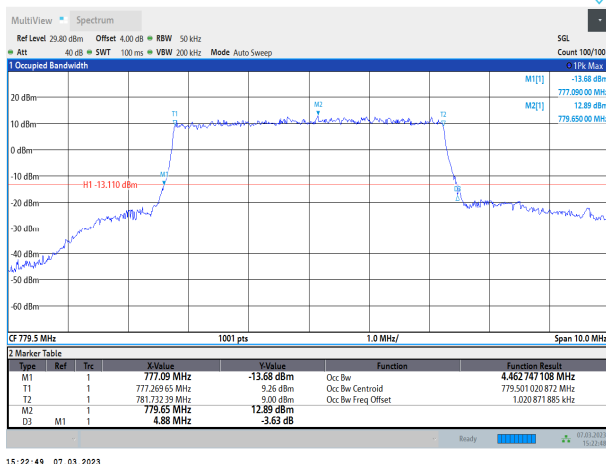
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Band13-5MHz-16QAM-23205-25RB#0



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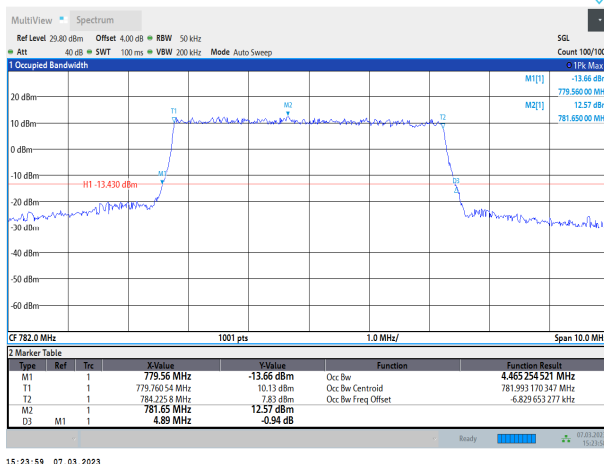
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Rev.: 01

Page: 10 of 24

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



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



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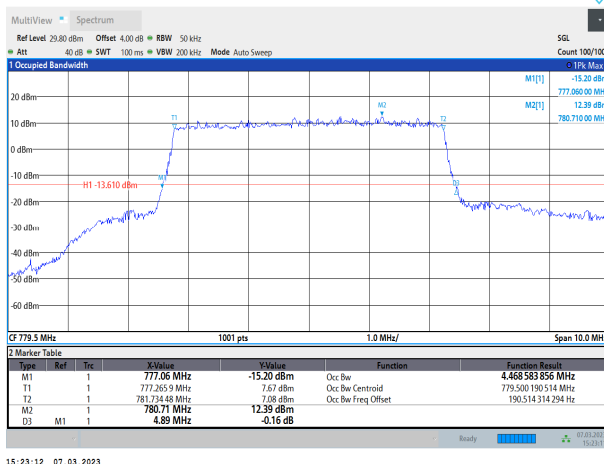
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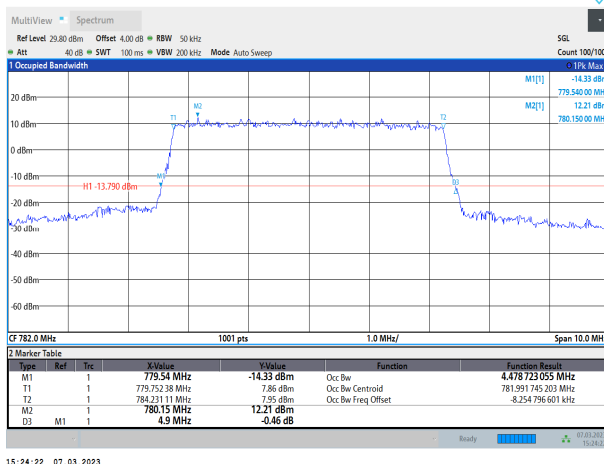
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Band13-5MHz-64QAM-23230-25RB#0



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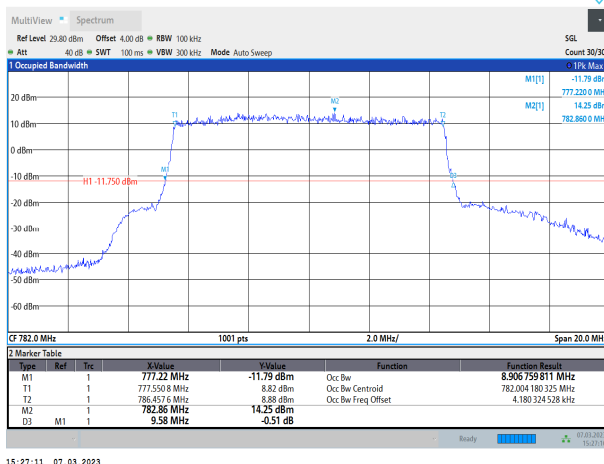
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Page: 12 of 24

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



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



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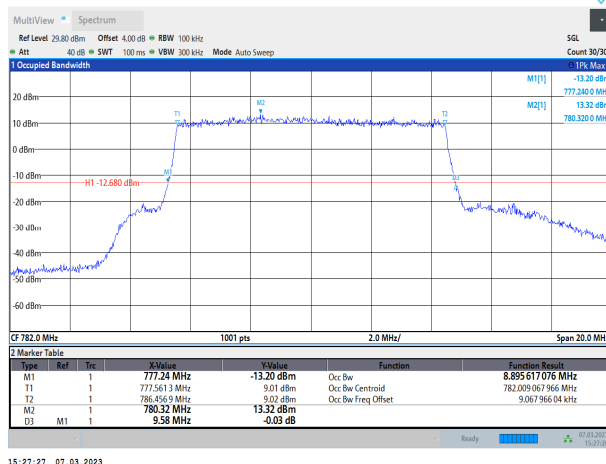
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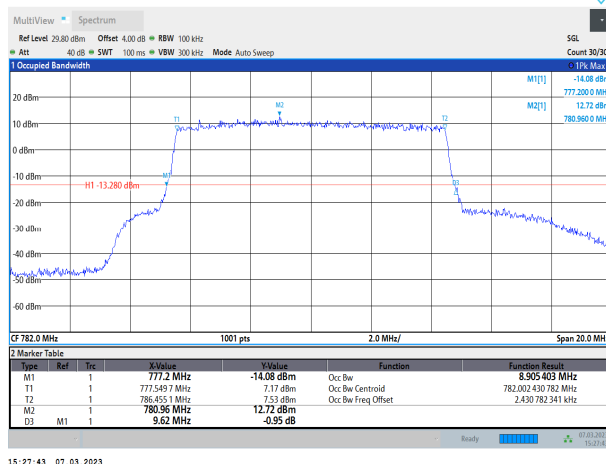
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Page: 13 of 24

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



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



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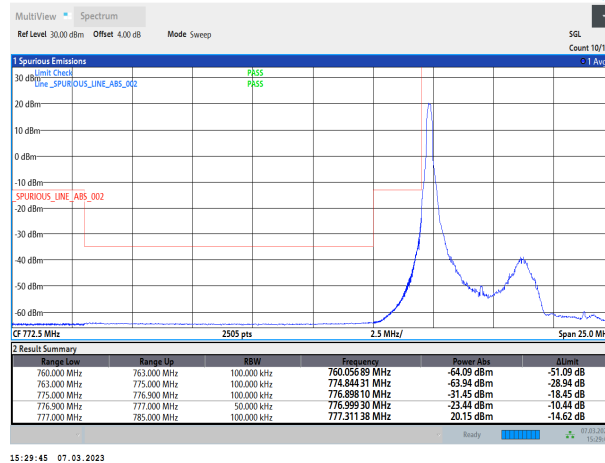
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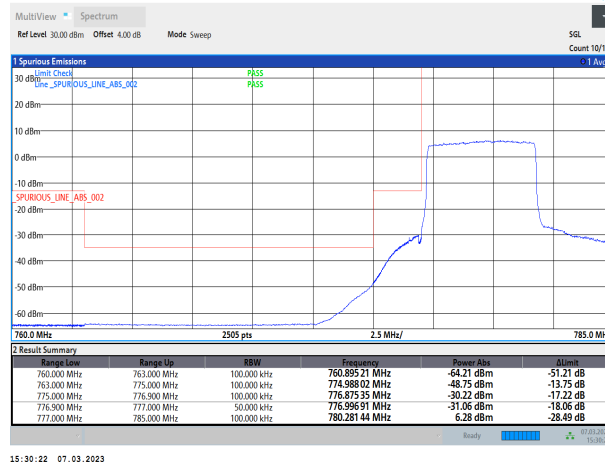
Band Edge

Test Graphs

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



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

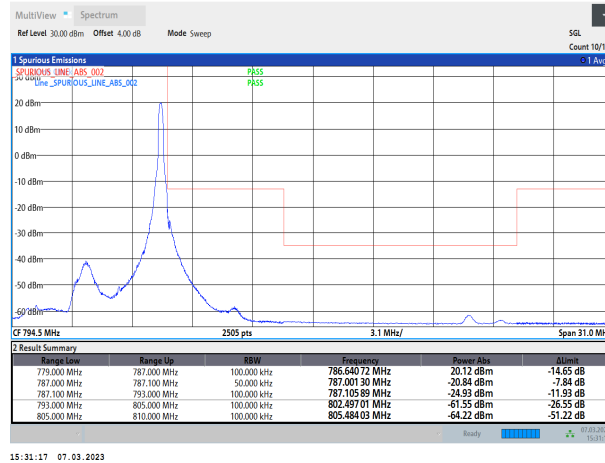


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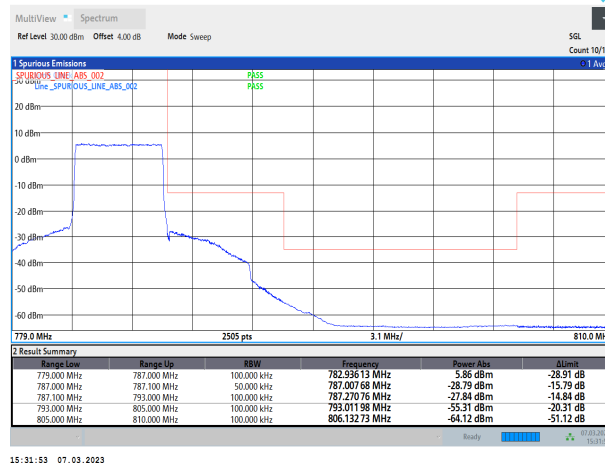
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Band13-5MHz-QPSK-23255-1RB#24



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



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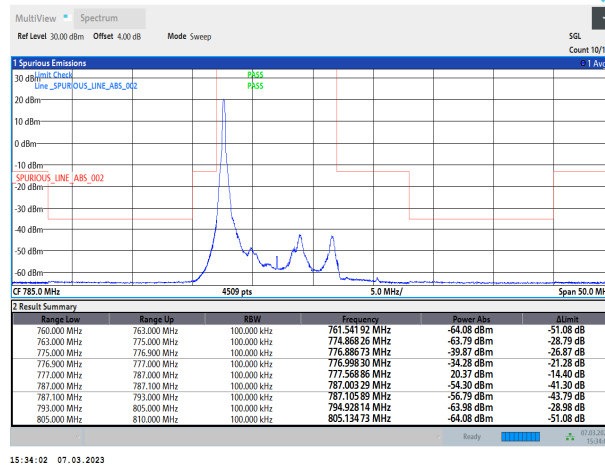
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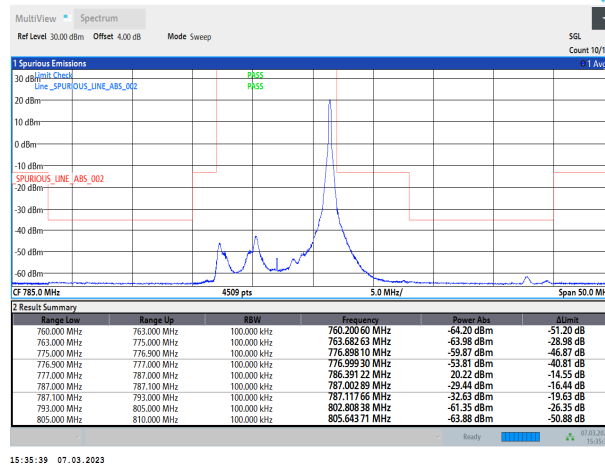
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Band13-10MHz-QPSK-23230-1RB#0



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



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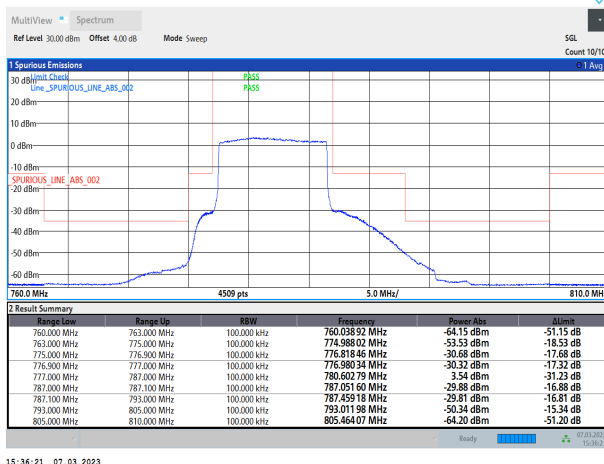
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Rev.: 01

Page: 17 of 24

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



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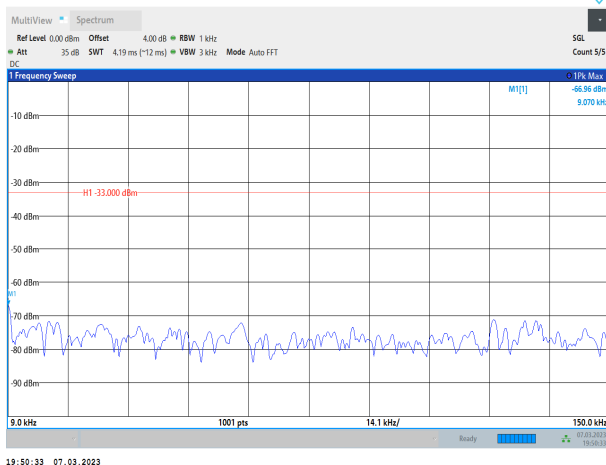
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Page: 18 of 24

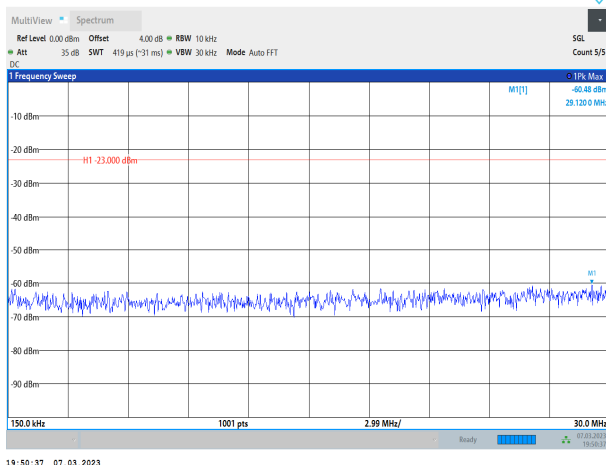
Conducted Spurious Emission

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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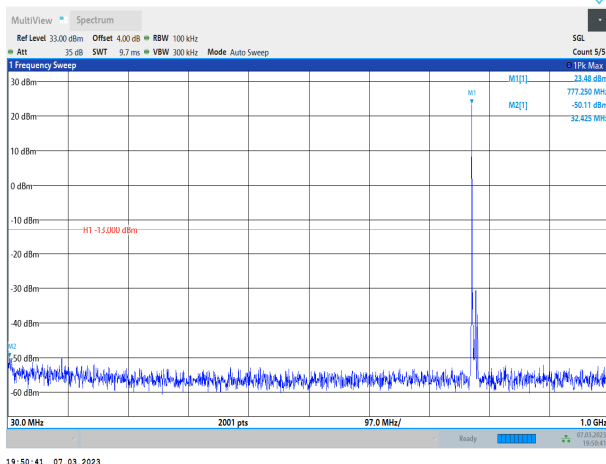
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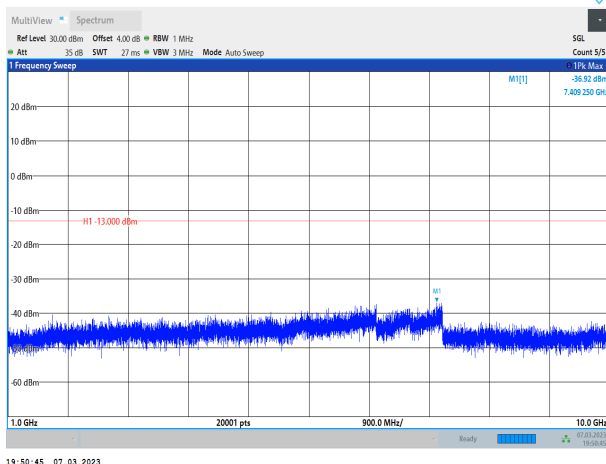
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Page: 19 of 24

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



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



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Report No.: SEWA2211000080RG01

Rev.: 01

Page: 20 of 24

Field Strength of Spurious Radiation

Test Band = LTE Band 13 10M_ 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	1555.18	45.42	-48.51	25.56	-72.79	-13.00	59.79	147	53	Horizontal
2	2332.77	43.42	-47.62	27.57	-71.89	-13.00	58.89	184	0	Horizontal
3	3110.36	42.75	-46.51	29.56	-69.47	-13.00	56.47	269	145	Horizontal
4	3887.95	40.72	-45.54	30.33	-69.75	-13.00	56.75	200	187	Horizontal
5	4665.54	42.52	-44.58	31.80	-65.52	-13.00	52.52	216	273	Horizontal
6	5443.13	41.29	-43.83	32.60	-65.20	-13.00	52.20	289	174	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	1555.18	46.00	-48.51	25.56	-72.21	-13.00	59.21	254	102	Vertical
2	2332.77	43.86	-47.62	27.57	-71.45	-13.00	58.45	186	157	Vertical
3	3110.36	43.44	-46.51	29.56	-68.78	-13.00	55.78	219	346	Vertical
4	3887.95	40.83	-45.54	30.33	-69.64	-13.00	56.64	233	360	Vertical
5	4665.54	41.64	-44.58	31.80	-66.40	-13.00	53.40	164	286	Vertical
6	5443.13	41.32	-43.83	32.60	-65.17	-13.00	52.17	142	126	Vertical



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Rev.: 01

Page: 21 of 24

Test Band = LTE Band 13 5M_ 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	1554.68	48.94	-48.51	25.56	-69.27	-13.00	56.27	148	346	Horizontal
2	2332.02	43.92	-47.62	27.57	-71.39	-13.00	58.39	256	340	Horizontal
3	3109.36	42.71	-46.51	29.56	-69.51	-13.00	56.51	193	313	Horizontal
4	3886.7	40.47	-45.54	30.33	-70.00	-13.00	57.00	284	0	Horizontal
5	4664.04	41.23	-44.58	31.79	-66.81	-13.00	53.81	142	117	Horizontal
6	5441.38	41.46	-43.83	32.60	-65.03	-13.00	52.03	138	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	1554.68	48.70	-48.51	25.56	-69.51	-13.00	56.51	248	131	Vertical
2	2332.02	44.23	-47.62	27.57	-71.08	-13.00	58.08	193	131	Vertical
3	3109.36	42.89	-46.51	29.56	-69.33	-13.00	56.33	226	358	Vertical
4	3886.7	41.39	-45.54	30.33	-69.08	-13.00	56.08	179	357	Vertical
5	4664.04	41.67	-44.58	31.79	-66.37	-13.00	53.37	286	360	Vertical
6	5441.38	41.31	-43.83	32.60	-65.18	-13.00	52.18	140	307	Vertical



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Rev.: 01

Page: 22 of 24

Test Band = LTE Band 13 5M_ 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	1559.68	52.52	-48.51	25.56	-65.69	-40.00	25.69	175	140	Horizontal
2	2339.52	43.42	-47.61	27.58	-71.87	-13.00	58.87	293	169	Horizontal
3	3119.36	42.66	-46.49	29.55	-69.54	-13.00	56.54	186	155	Horizontal
4	3899.2	40.42	-45.53	30.36	-70.01	-13.00	57.01	255	65	Horizontal
5	4679.04	42.26	-44.57	31.83	-65.74	-13.00	52.74	194	37	Horizontal
6	5458.88	40.98	-43.82	32.60	-65.50	-13.00	52.50	153	118	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	1559.68	45.57	-48.51	25.56	-72.64	-40.00	32.64	244	318	Vertical
2	2339.52	43.34	-47.61	27.58	-71.95	-13.00	58.95	193	335	Vertical
3	3119.36	43.20	-46.49	29.55	-69.00	-13.00	56.00	258	259	Vertical
4	3899.2	40.47	-45.53	30.36	-69.96	-13.00	56.96	171	213	Vertical
5	4679.04	41.70	-44.57	31.83	-66.30	-13.00	53.30	138	291	Vertical
6	5458.88	41.57	-43.82	32.60	-64.91	-13.00	51.91	146	5	Vertical



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Report No.: SEWA2211000080RG01

Rev.: 01

Page: 23 of 24

Test Band = LTE Band 13 5M_ 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	1564.68	45.55	-48.51	25.57	-72.65	-40.00	32.65	216	162	Horizontal
2	2347.02	43.34	-47.61	27.60	-71.94	-13.00	58.94	239	289	Horizontal
3	3129.36	42.55	-46.46	29.55	-69.62	-13.00	56.62	284	51	Horizontal
4	3911.7	40.54	-45.53	30.39	-69.86	-13.00	56.86	271	357	Horizontal
5	4694.04	41.65	-44.55	31.87	-66.30	-13.00	53.30	156	1	Horizontal
6	5476.38	40.92	-43.80	32.60	-65.54	-13.00	52.54	286	130	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	1564.68	45.49	-48.51	25.57	-72.71	-40.00	32.71	169	88	Vertical
2	2347.02	43.59	-47.61	27.60	-71.69	-13.00	58.69	263	332	Vertical
3	3129.36	42.84	-46.46	29.55	-69.33	-13.00	56.33	248	162	Vertical
4	3911.7	41.29	-45.53	30.39	-69.11	-13.00	56.11	185	0	Vertical
5	4694.04	42.11	-44.55	31.87	-65.84	-13.00	52.84	192	127	Vertical
6	5476.38	41.26	-43.80	32.60	-65.20	-13.00	52.20	136	127	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: SEWA2211000080RG01

Rev.: 01

Page: 24 of 24

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.80	-0.002302	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-1.70	-0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-5.60	-0.007161	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-1.60	-0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	2.00	0.002558	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.40	-0.004348	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	3.70	0.004731	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.10	0.001407	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.30	0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.10	0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	3.70	0.004731	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.10	-0.001407	PASS

---End of Attachment---



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