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Appendix B.6

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	23.69	21.62	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.61	21.54	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.68	21.61	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.82	20.75	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.63	21.56	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.69	21.62	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.64	21.57	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.80	20.73	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.72	21.65	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.70	21.63	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.64	21.57	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.81	20.74	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.87	20.80	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.76	20.69	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.94	20.87	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.78	19.71	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.88	20.81	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.94	20.87	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.83	20.76	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.81	19.74	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.92	20.85	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.97	20.90	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.84	20.77	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.77	19.70	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.68	21.61	34.77	PASS



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Band13	10MHz	QPSK	23230	1RB#24	23.70	21.63	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.66	21.59	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.83	20.76	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.88	20.81	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.89	20.82	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.88	20.81	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.87	19.80	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	5.32	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.04	13	PASS



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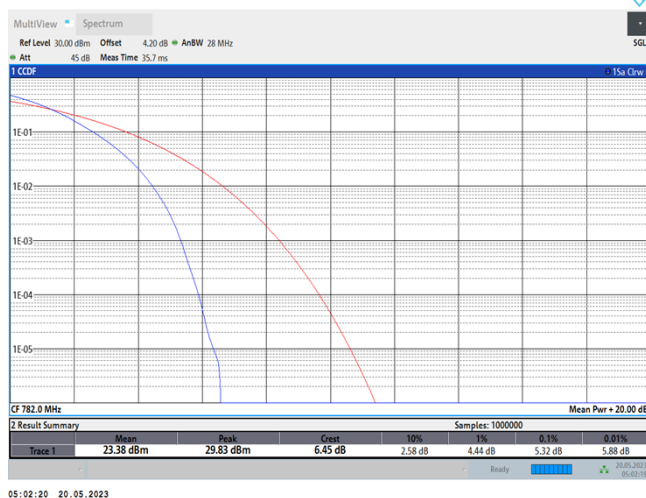
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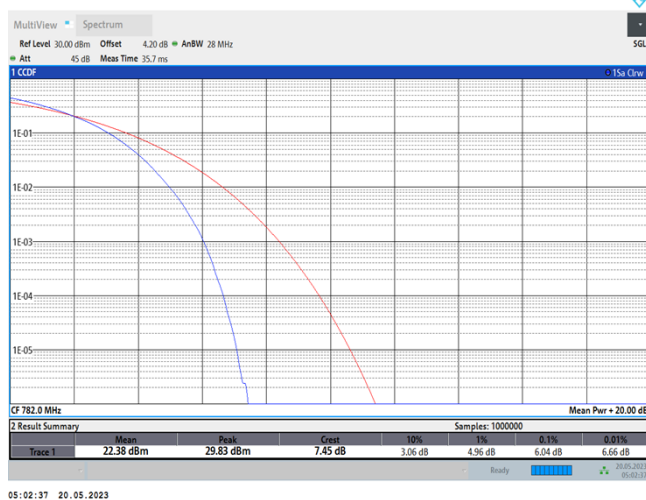
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Test Graphs

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	4.464	4.86	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.471	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.476	4.88	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.460	4.90	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.470	4.91	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.474	4.89	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.926	9.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.899	9.62	PASS



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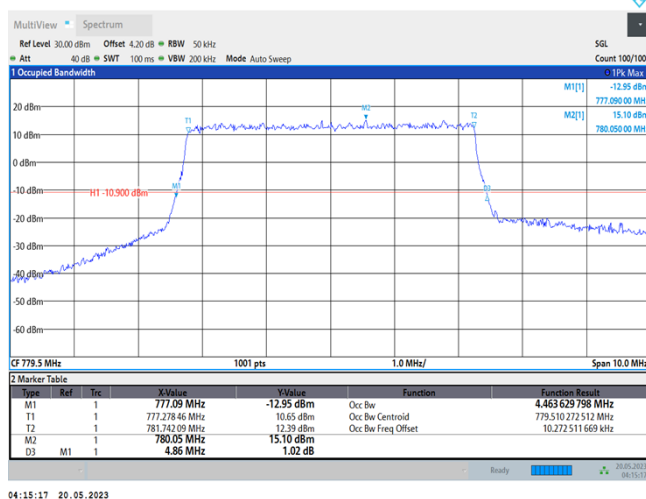
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Test Graphs

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



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



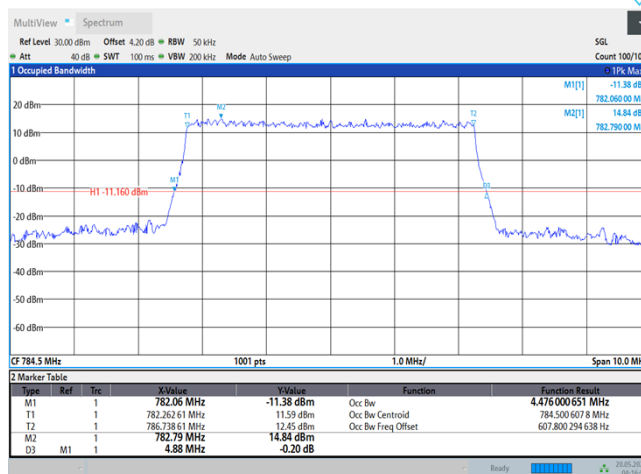
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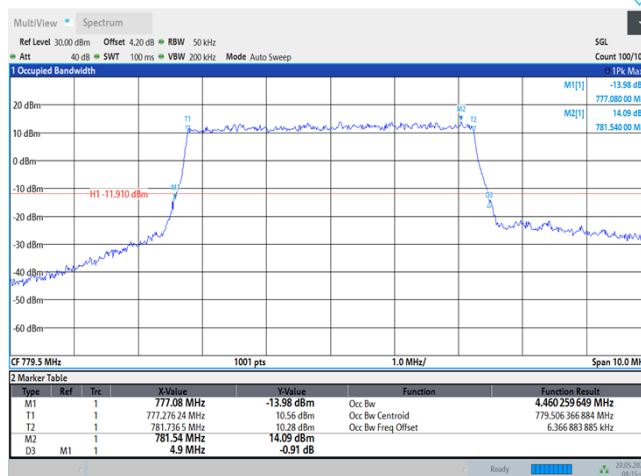
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Band13-5MHz-QPSK-23255-25RB#0



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



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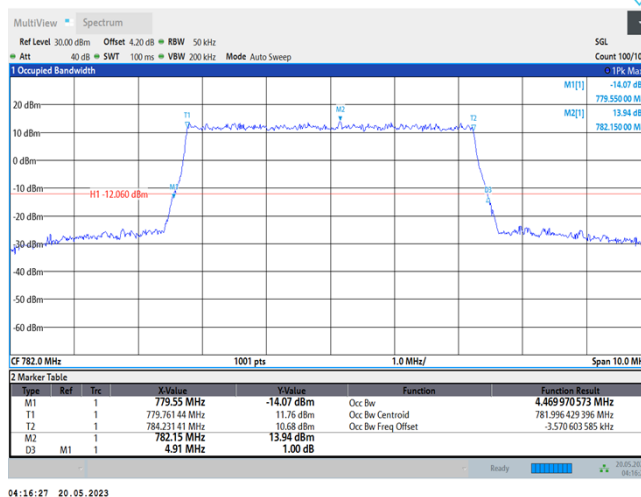
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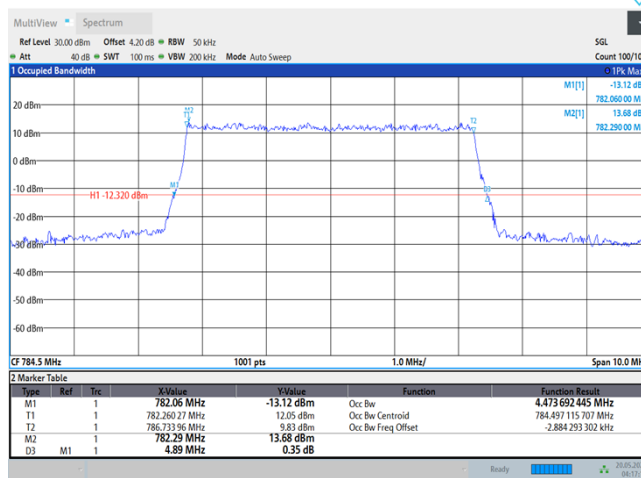
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Band13-5MHz-16QAM-23230-25RB#0



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



04:17:14 20.05.2023



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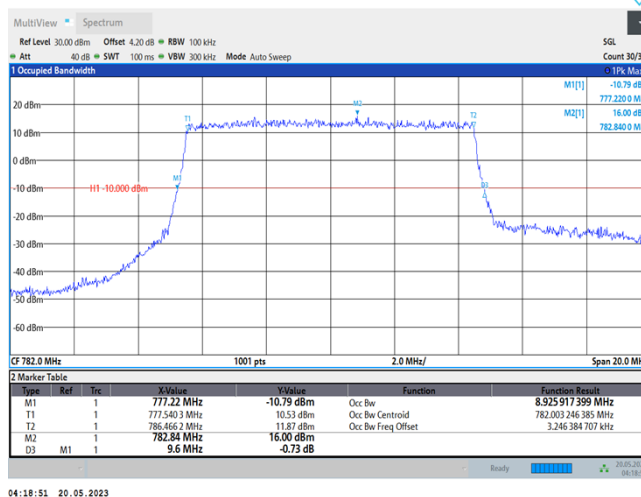
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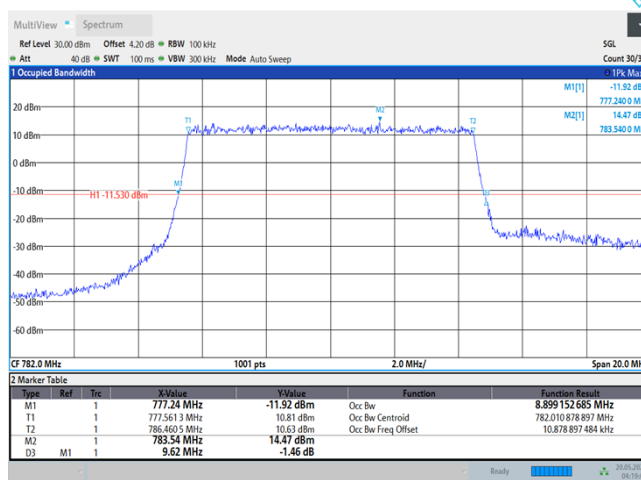
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Band13-10MHz-16QAM-23230-50RB#0



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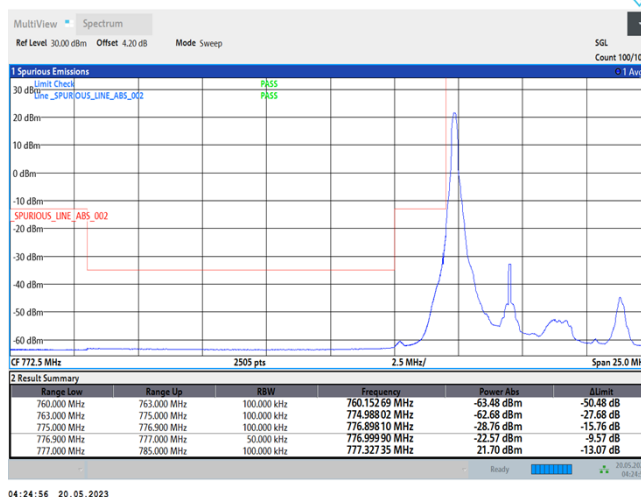
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Band Edge

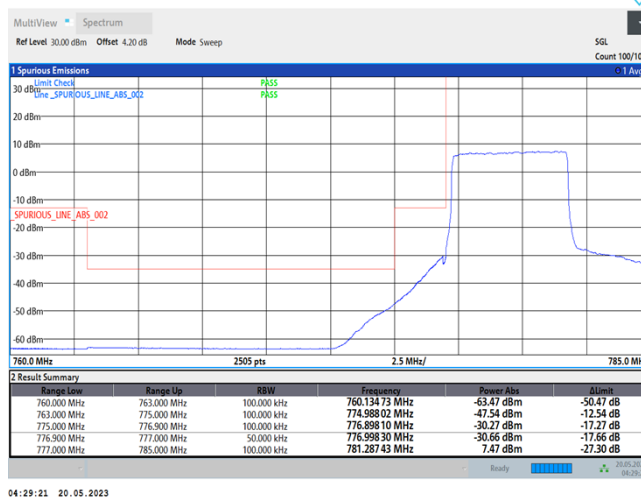
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Band13-5MHz-QPSK-23205-25RB#0



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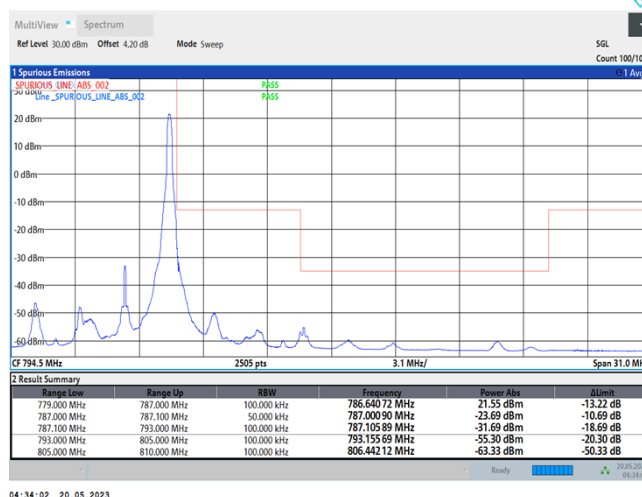
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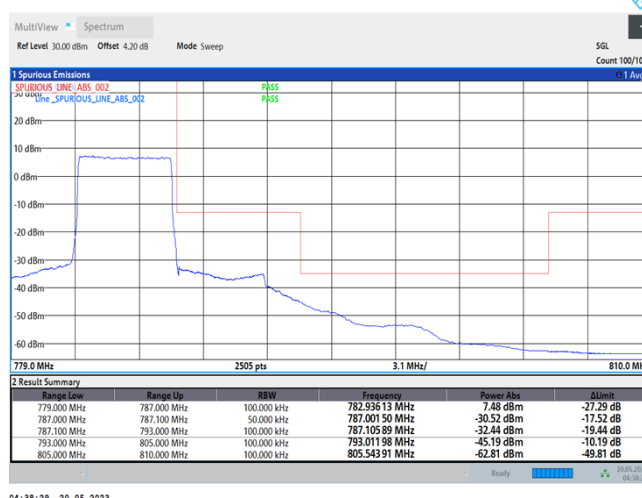
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Band13-5MHz-QPSK-23255-1RB#24



04:34:02 20.05.2023

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



04:38:29 20.05.2023



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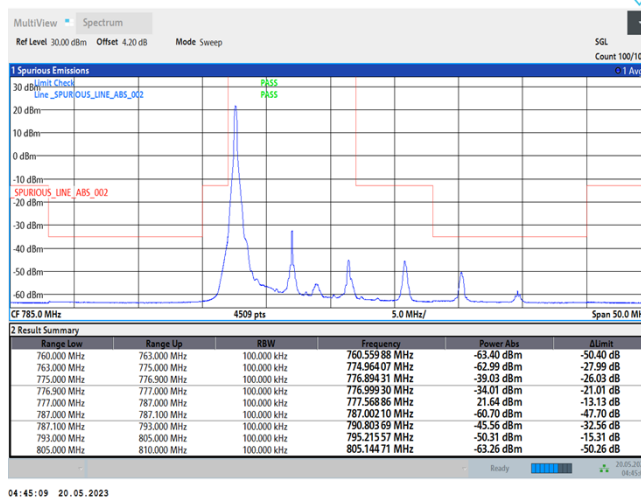
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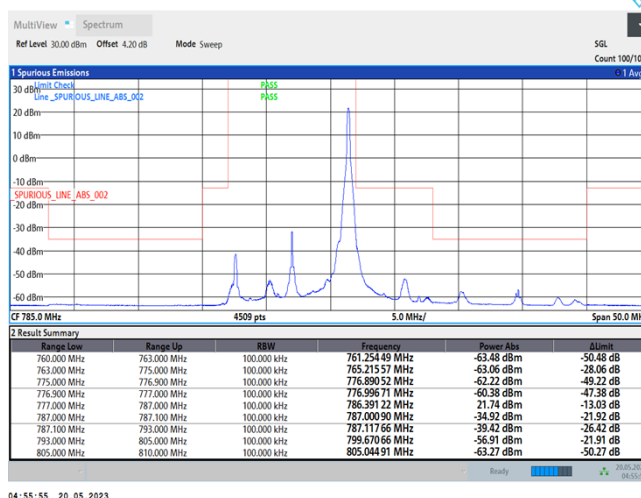
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Band13-10MHz-QPSK-23230-1RB#0



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



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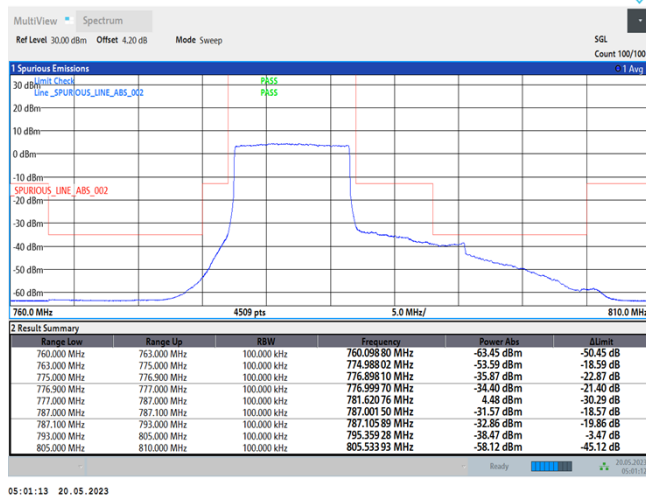
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Band13-10MHz-QPSK-23230-50RB#0



05:01:13 20.05.2023



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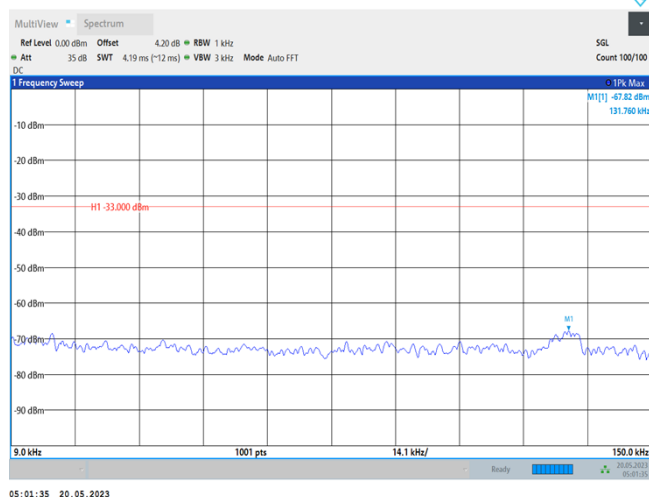
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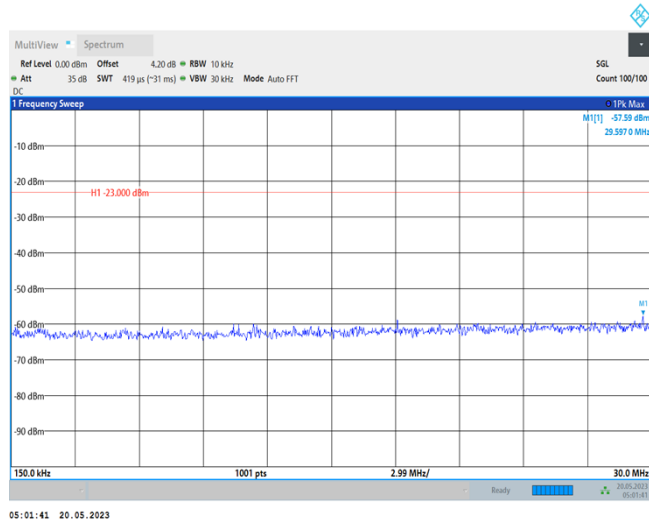
Conducted Spurious Emission

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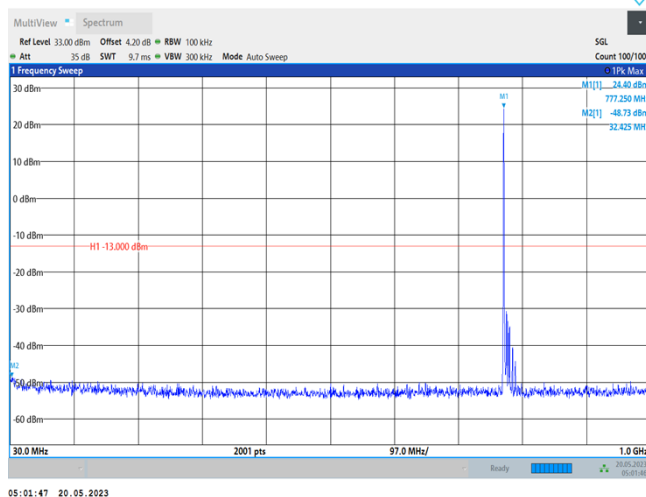
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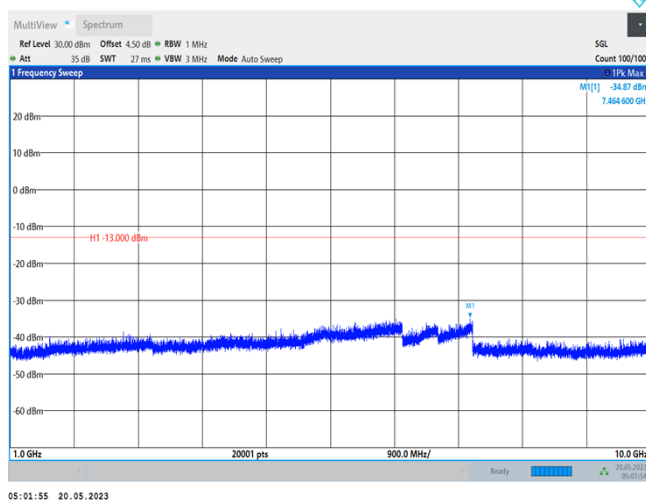
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 13 BW 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	46.49	-48.51	25.56	-71.72	-13.00	58.72	102	119	Horizontal
2	2332.77	42.36	-47.62	27.57	-72.95	-13.00	59.95	265	310	Horizontal
3	3110.36	42.03	-46.51	29.56	-70.19	-13.00	57.19	241	176	Horizontal
4	3887.95	41.97	-45.54	30.33	-68.50	-13.00	55.50	145	119	Horizontal
5	4665.54	40.95	-44.58	31.80	-67.09	-13.00	54.09	296	45	Horizontal
6	5443.13	40.43	-43.83	32.60	-66.06	-13.00	53.06	335	59	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	44.95	-48.51	25.56	-73.26	-13.00	60.26	296	209	Vertical
2	2332.77	43.78	-47.62	27.57	-71.53	-13.00	58.53	265	75	Vertical
3	3110.36	42.57	-46.51	29.56	-69.65	-13.00	56.65	284	1	Vertical
4	3887.95	42.27	-45.54	30.33	-68.20	-13.00	55.20	142	270	Vertical
5	4665.54	40.61	-44.58	31.80	-67.43	-13.00	54.43	263	255	Vertical
6	5443.13	41.11	-43.83	32.60	-65.38	-13.00	52.38	228	329	Vertical



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Test Band = LTE Band 13 BW 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	44.71	-48.51	25.56	-73.50	-13.00	60.50	254	136	Horizontal
2	2332.02	43.35	-47.62	27.57	-71.96	-13.00	58.96	174	31	Horizontal
3	3109.36	42.21	-46.51	29.56	-70.01	-13.00	57.01	142	359	Horizontal
4	3886.7	41.83	-45.54	30.33	-68.64	-13.00	55.64	296	352	Horizontal
5	4664.04	40.78	-44.58	31.79	-67.26	-13.00	54.26	255	90	Horizontal
6	5441.38	40.75	-43.83	32.60	-65.74	-13.00	52.74	274	343	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	45.35	-48.51	25.56	-72.86	-13.00	59.86	296	137	Vertical
2	2332.02	43.18	-47.62	27.57	-72.13	-13.00	59.13	265	120	Vertical
3	3109.36	42.58	-46.51	29.56	-69.64	-13.00	56.64	284	357	Vertical
4	3886.7	43.24	-45.54	30.33	-67.23	-13.00	54.23	142	194	Vertical
5	4664.04	40.55	-44.58	31.79	-67.49	-13.00	54.49	263	137	Vertical
6	5441.38	41.30	-43.83	32.60	-65.19	-13.00	52.19	228	357	Vertical



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Test Band = LTE Band 13 BW 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	45.68	-48.51	25.56	-72.53	-40.00	32.53	206	359	Horizontal
2	2339.52	42.92	-47.61	27.58	-72.37	-13.00	59.37	254	105	Horizontal
3	3119.36	42.11	-46.49	29.55	-70.09	-13.00	57.09	174	315	Horizontal
4	3899.2	41.67	-45.53	30.36	-68.76	-13.00	55.76	142	29	Horizontal
5	4679.04	40.63	-44.57	31.83	-67.37	-13.00	54.37	263	105	Horizontal
6	5458.88	41.02	-43.82	32.60	-65.46	-13.00	52.46	228	360	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	44.89	-48.51	25.56	-73.32	-40.00	33.32	296	330	Vertical
2	2339.52	42.97	-47.61	27.58	-72.32	-13.00	59.32	265	227	Vertical
3	3119.36	42.28	-46.49	29.55	-69.92	-13.00	56.92	284	198	Vertical
4	3899.2	41.97	-45.53	30.36	-68.46	-13.00	55.46	142	34	Vertical
5	4679.04	40.33	-44.57	31.83	-67.67	-13.00	54.67	263	1	Vertical
6	5458.88	41.38	-43.82	32.60	-65.10	-13.00	52.10	225	167	Vertical



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Test Band = LTE Band 13 BW 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	44.73	-48.51	25.57	-73.47	-40.00	33.47	296	355	Horizontal
2	2347.02	42.52	-47.61	27.60	-72.76	-13.00	59.76	265	307	Horizontal
3	3129.36	42.88	-46.46	29.55	-69.29	-13.00	56.29	284	121	Horizontal
4	3911.7	42.46	-45.53	30.39	-67.94	-13.00	54.94	142	321	Horizontal
5	4694.04	40.87	-44.55	31.87	-67.08	-13.00	54.08	263	77	Horizontal
6	5476.38	40.95	-43.80	32.60	-65.51	-13.00	52.51	228	262	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	45.10	-48.51	25.57	-73.10	-40.00	33.10	196	179	Vertical
2	2347.02	42.84	-47.61	27.60	-72.44	-13.00	59.44	265	210	Vertical
3	3129.36	42.09	-46.46	29.55	-70.08	-13.00	57.08	284	7	Vertical
4	3911.7	42.03	-45.53	30.39	-68.37	-13.00	55.37	142	17	Vertical
5	4694.04	41.29	-44.55	31.87	-66.66	-13.00	53.66	263	286	Vertical
6	5476.38	41.41	-43.80	32.60	-65.05	-13.00	52.05	228	179	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
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-2.80	-0.003581	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	1.50	0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	3.20	0.004092	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-7.20	-0.009207	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-2.10	-0.002685	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.30	-0.004220	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-3.40	-0.004348	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-2.90	-0.003708	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-6.10	-0.007801	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	1.50	0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.50	-0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	0.90	0.001151	PASS

---End of Attachment---



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