Appendix B.6

LTE Band 13

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Member of the SGS Group (SGS SA)

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	23.64	24.49	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.59	24.44	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.61	24.46	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.74	23.59	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.68	24.53	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.87	24.72	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.49	24.34	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.71	23.56	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.68	24.53	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.9	24.75	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.57	24.42	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.73	23.58	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.78	23.63	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.59	23.44	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.99	23.84	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.78	22.63	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.64	23.49	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.51	23.36	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.59	23.44	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.7	22.55	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.76	23.61	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.19	24.04	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.67	23.52	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.76	22.61	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.64	24.49	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.88	24.73	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.81	24.66	34.77	PASS

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

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Band13	10MHz	QPSK	23230	50RB#0	22.76	23.61	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.65	23.5	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.43	23.28	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.05	23.9	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.66	22.51	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	5.06	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.98	13	PASS

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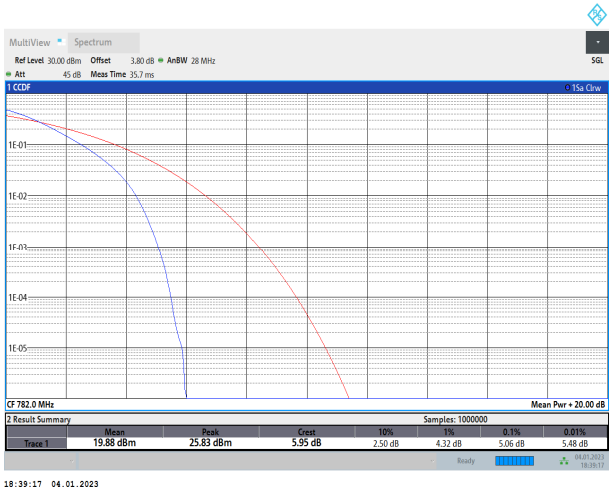
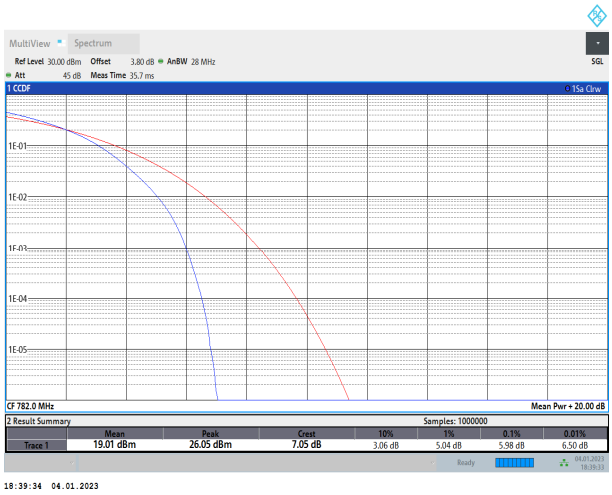
Test Graphs

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



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



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS

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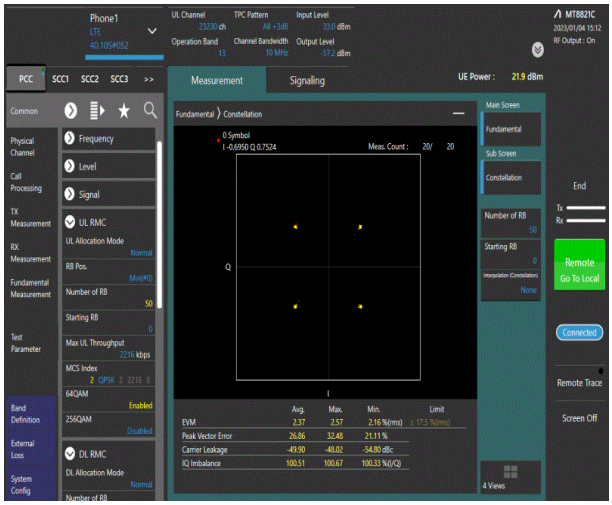
Test Graphs

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

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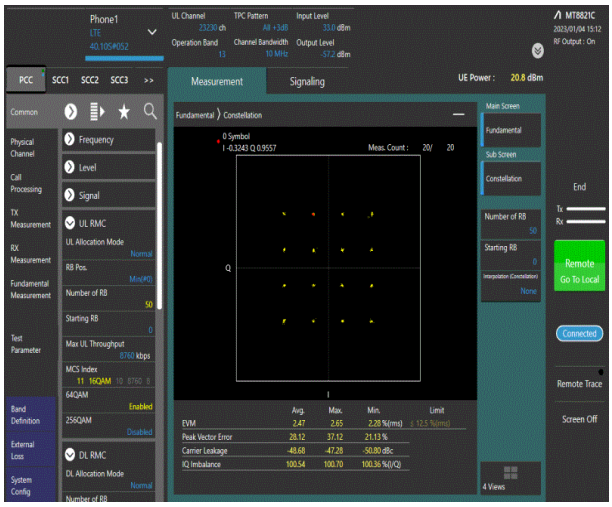

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.471	4.90	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.454	4.86	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.459	4.88	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.473	4.97	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.458	4.92	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.453	4.90	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.895	9.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.887	9.50	PASS

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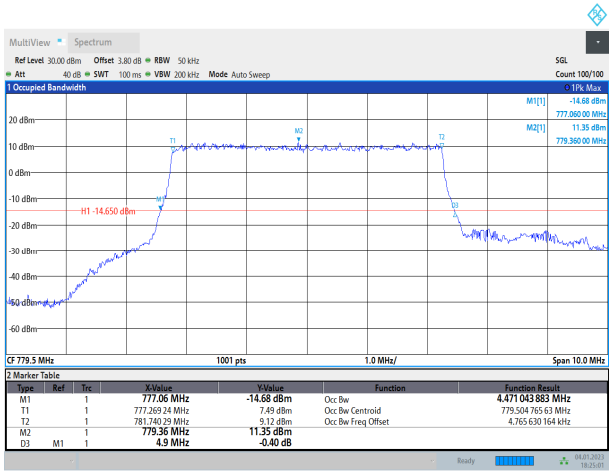
Test Graphs

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



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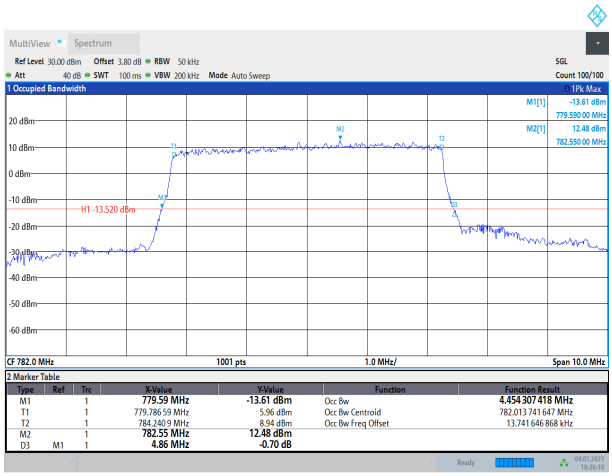
Band13-5MHz-QPSK-23230-25RB#0



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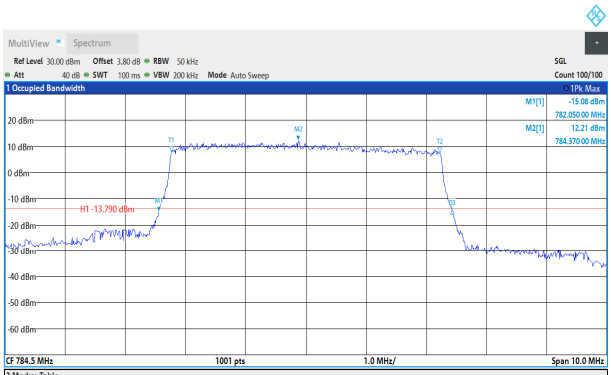
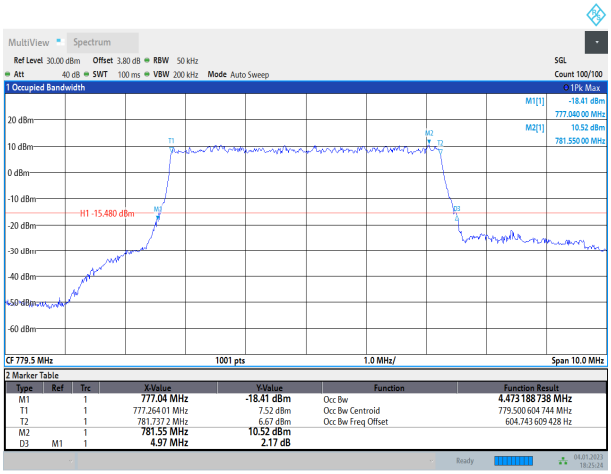
Band13-5MHz-QPSK-23255-25RB#0



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



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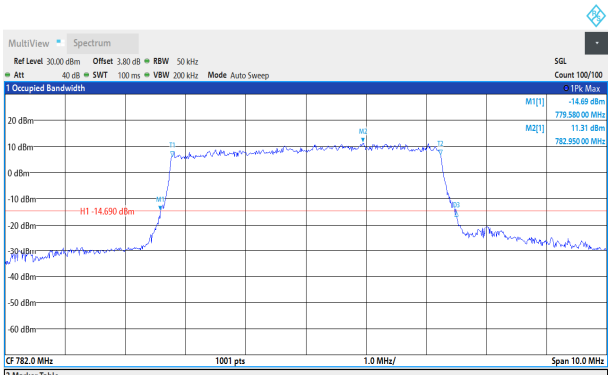
Band13-5MHz-16QAM-23230-25RB#0



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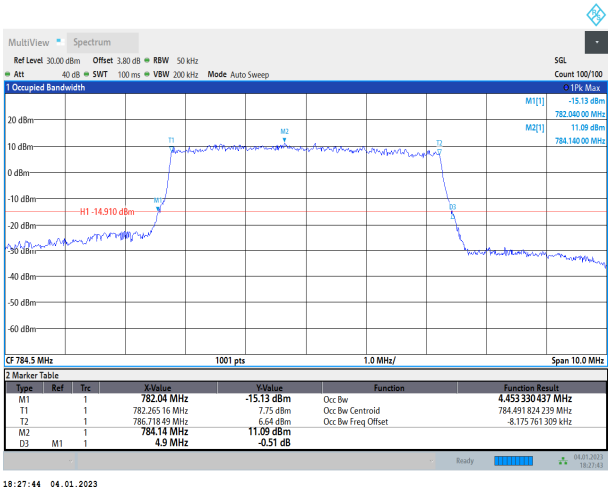

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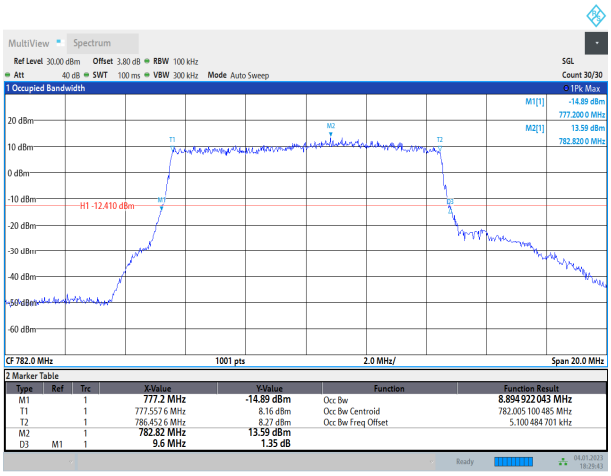
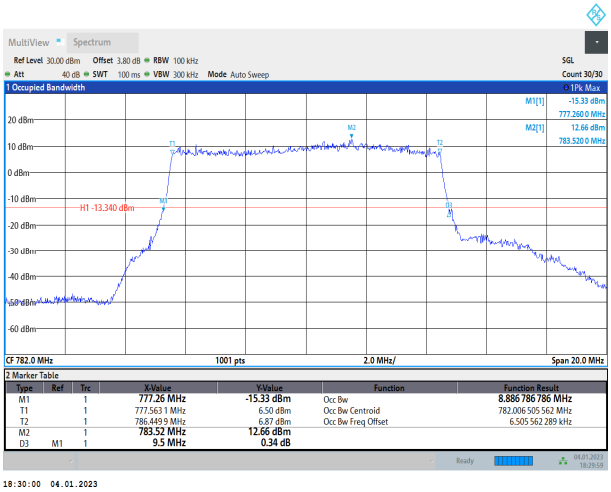
Band13-10MHz-QPSK-23230-50RB#0



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



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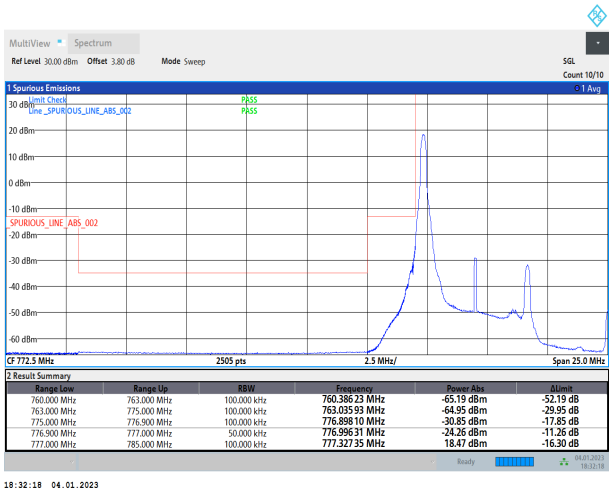
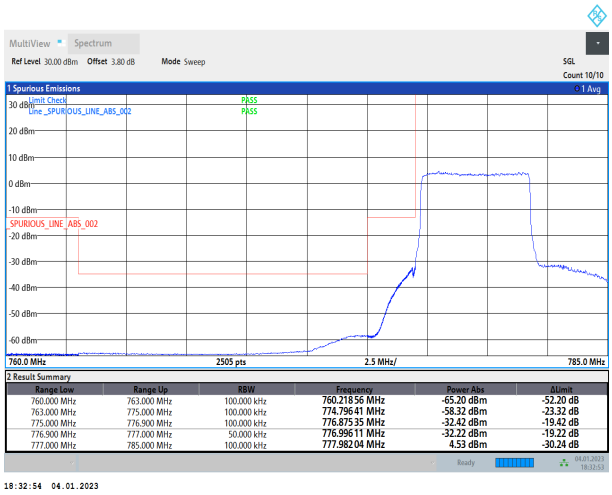
Band Edge

Test Graphs

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



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



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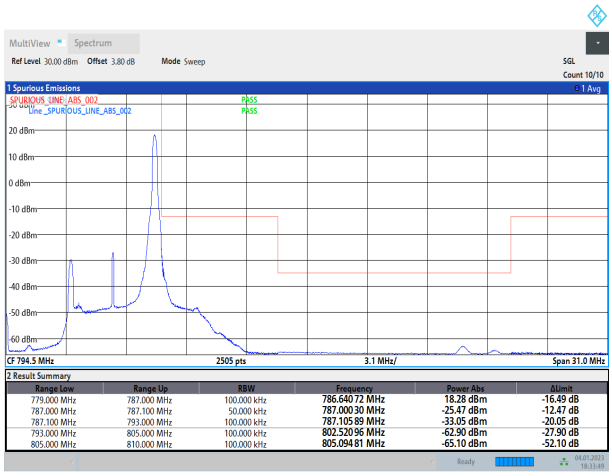
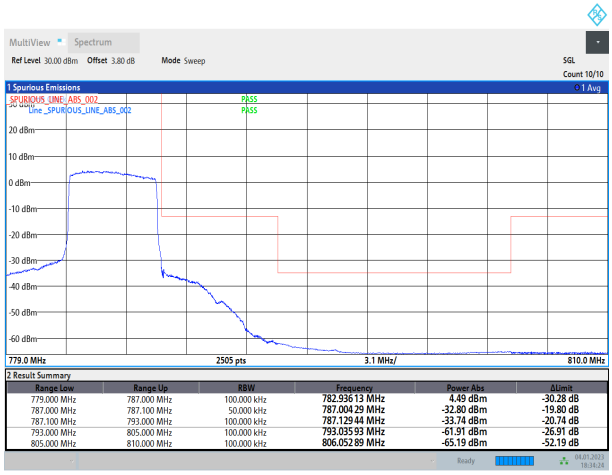
Band13-5MHz-QPSK-23255-1RB#24



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
779.000 MHz	787.000 MHz	100.000 kHz	786.640 72 MHz	18.28 dBm	-16.49 dB
787.000 MHz	787.100 MHz	50.000 kHz	787.000 30 MHz	-25.47 dBm	-12.47 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.105 89 MHz	-33.05 dBm	-20.05 dB
793.000 MHz	805.000 MHz	100.000 kHz	802.520 96 MHz	-62.90 dBm	-27.90 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.094 81 MHz	-65.10 dBm	-52.10 dB

18:33:49 04.01.2023

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



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
779.000 MHz	787.000 MHz	100.000 kHz	782.936 13 MHz	4.49 dBm	-30.28 dB
787.000 MHz	787.100 MHz	50.000 kHz	787.004 29 MHz	-32.80 dBm	-19.80 dB
787.100 MHz	793.000 MHz	100.000 kHz	787.129 44 MHz	-33.74 dBm	-20.74 dB
793.000 MHz	805.000 MHz	100.000 kHz	793.035 93 MHz	-61.91 dBm	-26.91 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.052 89 MHz	-65.19 dBm	-52.19 dB

18:34:25 04.01.2023

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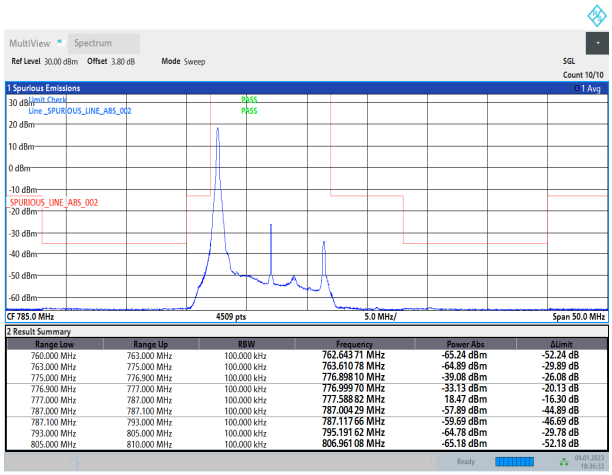
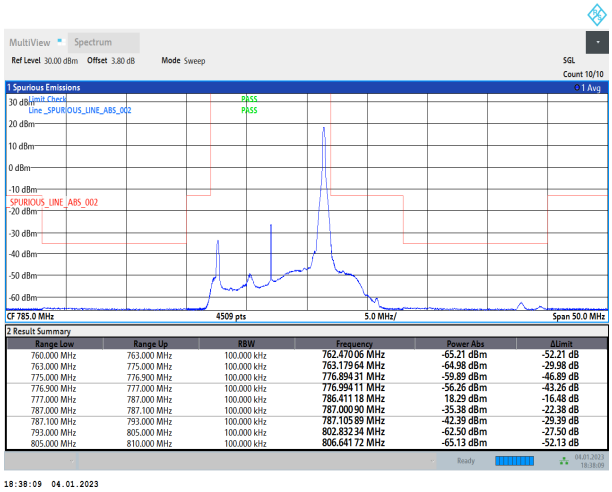
Band13-10MHz-QPSK-23230-1RB#0



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



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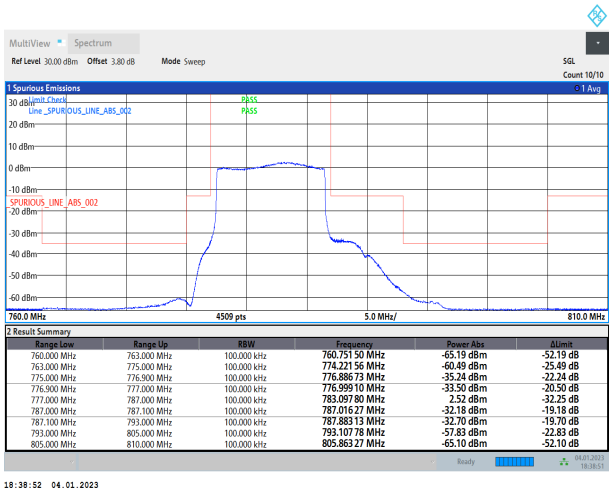
Band13-10MHz-QPSK-23230-50RB#0



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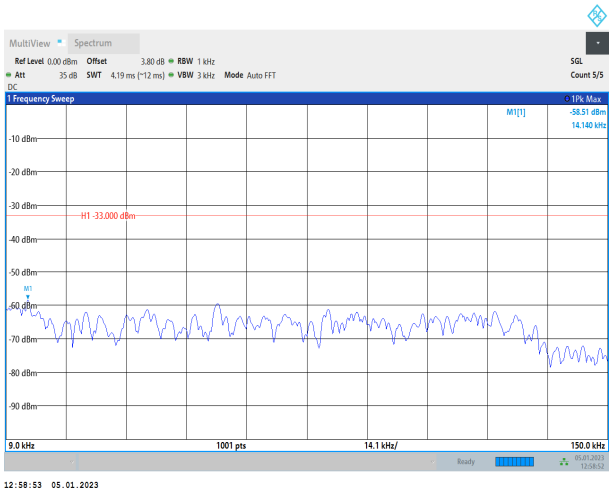
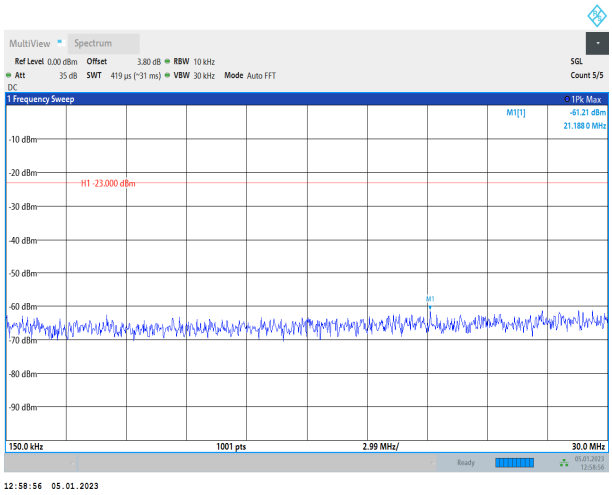
Conducted Spurious Emission

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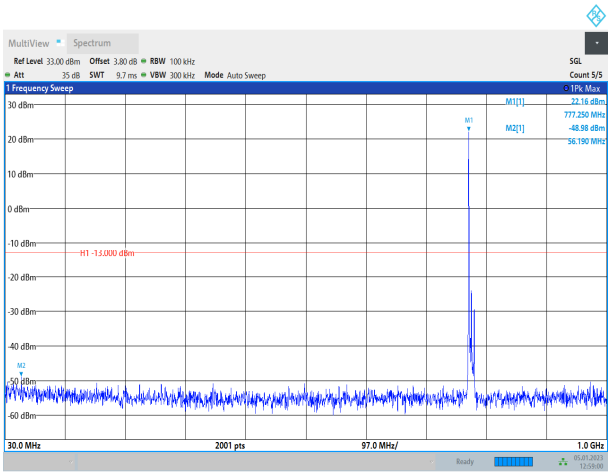
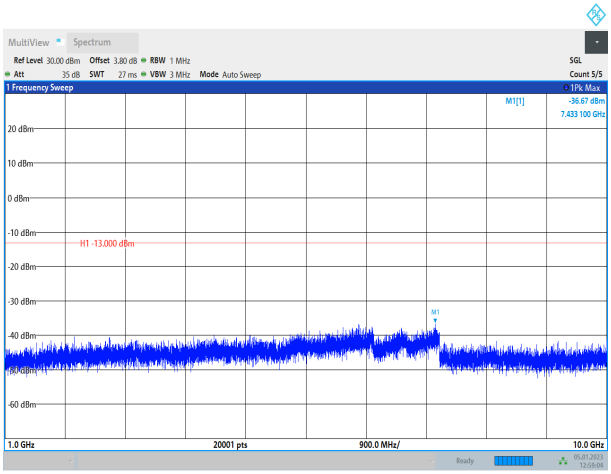
Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band13_10M_ 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	544.1300	43.86	-47.10	25.37	-73.13	-13.00	60.13	125	360	Horizontal
2	1555.1800	43.42	-48.30	25.41	-74.73	-13.00	61.73	148	147	Horizontal
3	2332.7700	42.32	-47.48	27.41	-73.02	-13.00	60.02	196	121	Horizontal
4	3110.3600	42.40	-46.70	29.53	-70.03	-13.00	57.03	145	240	Horizontal
5	3887.9500	40.59	-46.22	30.54	-70.35	-13.00	57.35	128	308	Horizontal
6	4665.5400	40.05	-45.80	31.91	-69.10	-13.00	56.10	174	147	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	544.1300	43.98	-47.10	25.37	-73.01	-13.00	60.01	244	1	Vertical
2	1555.1800	43.71	-48.30	25.41	-74.44	-13.00	61.44	184	176	Vertical
3	2332.7700	42.49	-47.48	27.41	-72.85	-13.00	59.85	186	97	Vertical
4	3110.3600	42.54	-46.70	29.53	-69.89	-13.00	56.89	256	348	Vertical
5	3887.9500	40.94	-46.22	30.54	-70.00	-13.00	57.00	236	188	Vertical
6	4665.5400	39.99	-45.80	31.91	-69.16	-13.00	56.16	291	71	Vertical

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Test Band = LTE Band13_5M_ 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	1554.6800	43.92	-48.30	25.41	-74.23	-13.00	61.23	148	171	Horizontal
2	2332.0200	42.38	-47.48	27.41	-72.96	-13.00	59.96	152	360	Horizontal
3	3109.3600	42.43	-46.71	29.53	-70.00	-13.00	57.00	136	210	Horizontal
4	3886.7000	41.10	-46.22	30.53	-69.85	-13.00	56.85	256	79	Horizontal
5	4664.0400	39.78	-45.80	31.91	-69.37	-13.00	56.37	291	302	Horizontal
6	5441.3800	40.37	-45.04	32.85	-67.09	-13.00	54.09	174	157	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	1554.6800	43.62	-48.30	25.41	-74.53	-13.00	61.53	155	269	Vertical
2	2332.0200	42.63	-47.48	27.41	-72.71	-13.00	59.71	148	110	Vertical
3	3109.3600	42.56	-46.71	29.53	-69.87	-13.00	56.87	175	189	Vertical
4	3886.7000	40.95	-46.22	30.53	-70.00	-13.00	57.00	199	189	Vertical
5	4664.0400	40.02	-45.80	31.91	-69.13	-13.00	56.13	142	242	Vertical
6	5441.3800	39.97	-45.04	32.85	-67.49	-13.00	54.49	136	5	Vertical

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Test Band = LTE Band13_5M_ 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	1559.6800	43.78	-48.30	25.40	-74.37	-40.00	34.37	148	40	Horizontal
2	2339.5200	42.89	-47.48	27.41	-72.44	-13.00	59.44	155	359	Horizontal
3	3119.3600	41.60	-46.66	29.55	-70.77	-13.00	57.77	174	3	Horizontal
4	3899.2000	41.47	-46.23	30.56	-69.46	-13.00	56.46	158	359	Horizontal
5	4679.0400	39.96	-45.80	31.95	-69.15	-13.00	56.15	196	268	Horizontal
6	5458.8800	39.78	-45.07	32.87	-67.69	-13.00	54.69	251	25	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	1559.6800	43.03	-48.30	25.40	-75.12	-40.00	35.12	125	226	Vertical
2	2339.5200	42.75	-47.48	27.41	-72.58	-13.00	59.58	145	6	Vertical
3	3119.3600	41.93	-46.66	29.55	-70.44	-13.00	57.44	155	2	Vertical
4	3899.2000	40.81	-46.23	30.56	-70.12	-13.00	57.12	186	356	Vertical
5	4679.0400	40.07	-45.80	31.95	-69.04	-13.00	56.04	265	1	Vertical
6	5458.8800	40.56	-45.07	32.87	-66.91	-13.00	53.91	145	306	Vertical

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Test Band = LTE Band13_5M_ 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	1564.6800	44.23	-48.29	25.40	-73.93	-40.00	33.93	148	145	Horizontal
2	2347.0200	42.98	-47.48	27.41	-72.34	-13.00	59.34	184	277	Horizontal
3	3129.3600	42.75	-46.61	29.56	-69.56	-13.00	56.56	175	65	Horizontal
4	3911.7000	41.95	-46.23	30.59	-68.94	-13.00	55.94	142	3	Horizontal
5	4694.0400	40.82	-45.80	32.00	-68.24	-13.00	55.24	136	65	Horizontal
6	5476.3800	39.81	-45.10	32.88	-67.67	-13.00	54.67	256	158	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	1564.6800	43.25	-48.29	25.40	-74.91	-40.00	34.91	184	0	Vertical
2	2347.0200	43.10	-47.48	27.41	-72.22	-13.00	59.22	155	334	Vertical
3	3129.3600	42.91	-46.61	29.56	-69.40	-13.00	56.40	146	356	Vertical
4	3911.7000	41.22	-46.23	30.59	-69.67	-13.00	56.67	291	201	Vertical
5	4694.0400	40.78	-45.80	32.00	-68.28	-13.00	55.28	147	93	Vertical
6	5476.3800	39.79	-45.10	32.88	-67.69	-13.00	54.69	182	334	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	2.10	0.002685	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.10	-0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.60	0.000767	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	1.70	0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.40	-0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	2.10	0.002685	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.40	-0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	1.70	0.002174	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.60	0.000767	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	0.40	0.000512	PASS

---End of Attachment---

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