

Report No.: SEWM2207000119RG01

Rev.: 01

Page: 1 of 23

Appendix B.7

LTE Cat-M1 Band14



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Report No.: SEWM2207000119RG01

Rev.: 01

Page: 2 of 23

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5M	QPSK	L	1RB0	20.39	21.24	34.77	PASS
Band14	5M	QPSK	L	1RB5	20.63	21.48	34.77	PASS
Band14	5M	QPSK	L	6RB0	19.28	20.13	34.77	PASS
Band14	5M	QPSK	M	1RB0	20.42	21.27	34.77	PASS
Band14	5M	QPSK	M	1RB5	20.63	21.48	34.77	PASS
Band14	5M	QPSK	M	6RB0	19.42	20.27	34.77	PASS
Band14	5M	QPSK	H	1RB0	20.44	21.29	34.77	PASS
Band14	5M	QPSK	H	1RB5	20.51	21.36	34.77	PASS
Band14	5M	QPSK	H	6RB0	19.32	20.17	34.77	PASS



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Report No.: SEWM2207000119RG01

Rev.: 01

Page: 3 of 23

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	5MHz	QPSK	23305	6RB#0	8.94	13	PASS
Band14	5MHz	QPSK	23330	6RB#0	8.96	13	PASS
Band14	5MHz	QPSK	23355	6RB#0	9.04	13	PASS



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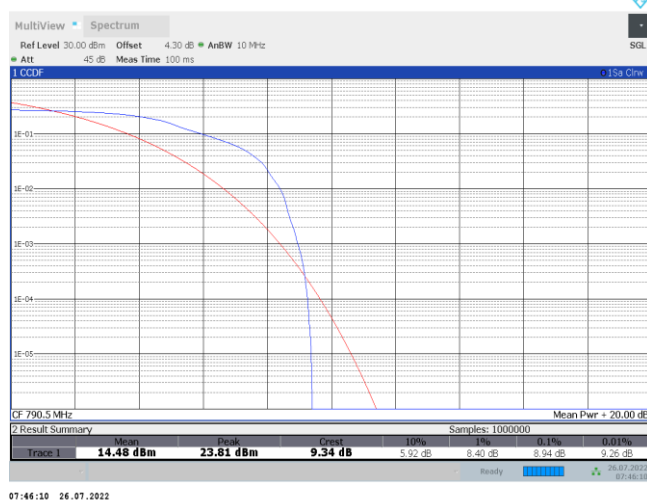
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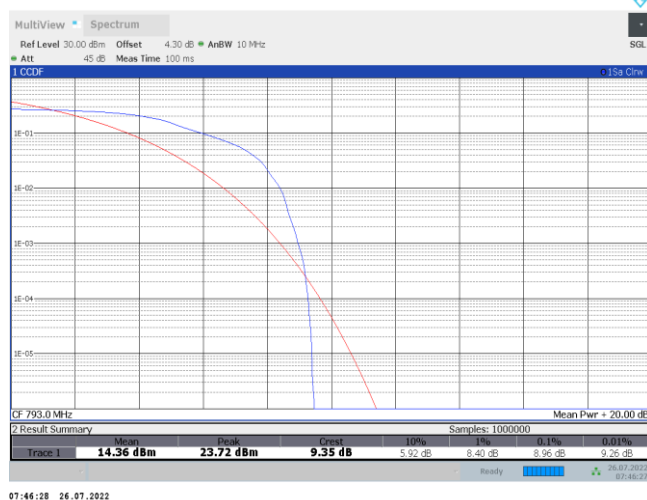
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Test Graphs

Band14-5MHz-QPSK-23305-6RB#0



Band14-5MHz-QPSK-23330-6RB#0



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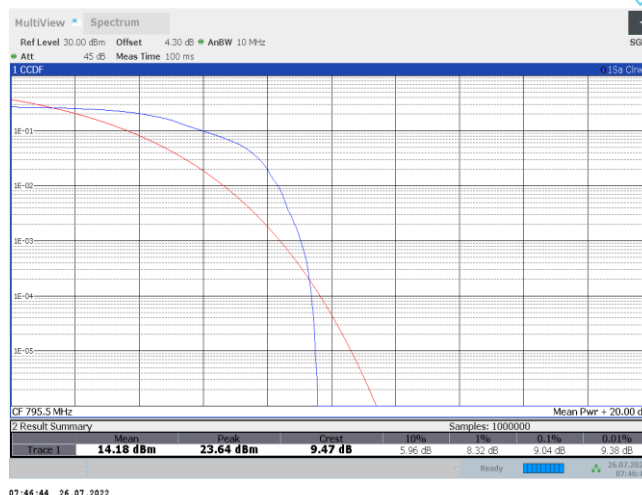
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Report No.: SEWM2207000119RG01

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Page: 5 of 23

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Report No.: SEWM2207000119RG01
 Rev.: 01
 Page: 6 of 23

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	5MHz	QPSK	23330	6RB#0	PASS	PASS

Test Graphs





Report No.: SEWM2207000119RG01

Rev.: 01

Page: 7 of 23

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	6RB#0	1.104	1.29	PASS
Band14	5MHz	QPSK	23330	6RB#	1.124	1.43	PASS
Band14	5MHz	QPSK	23355	6RB#	1.126	1.42	PASS



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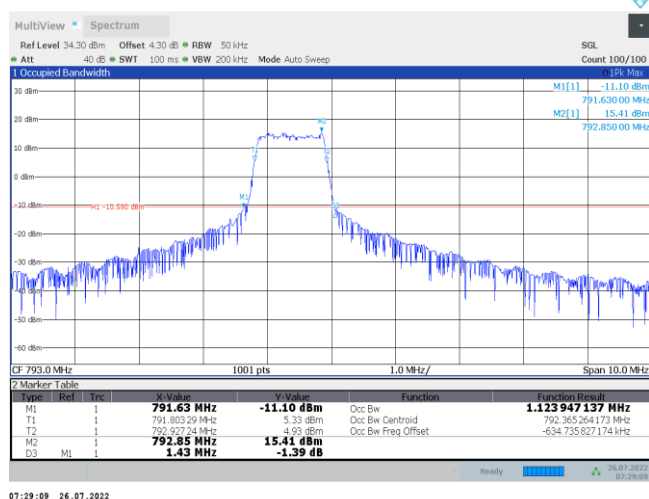
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Test Graphs

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Band14-5MHz-QPSK-23330-6RB#0



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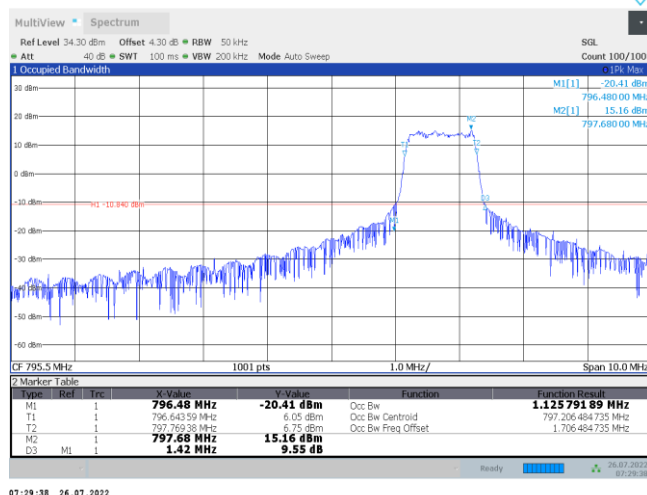
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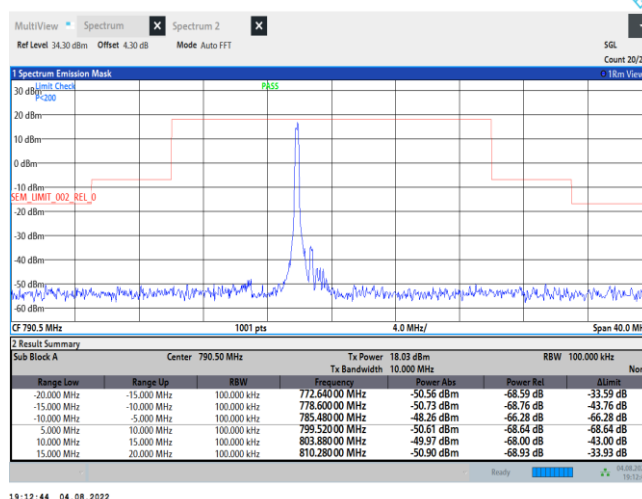
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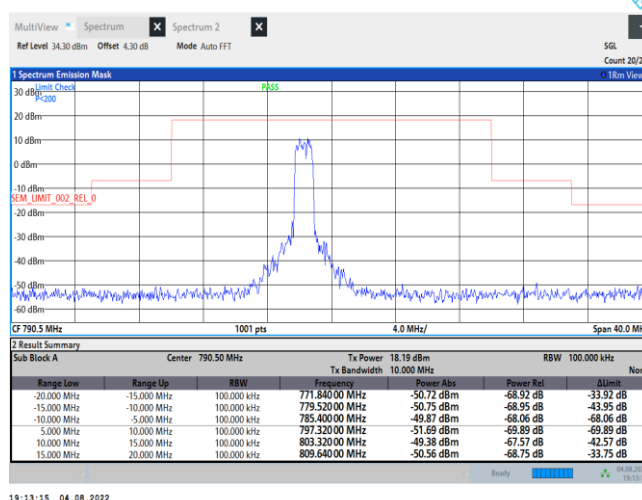
Emission Mask

Test Graphs

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Band14-5MHz-QPSK-23305-25RB#0



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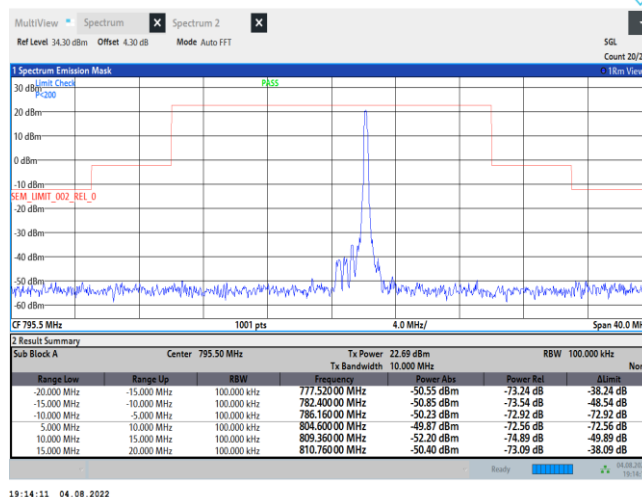
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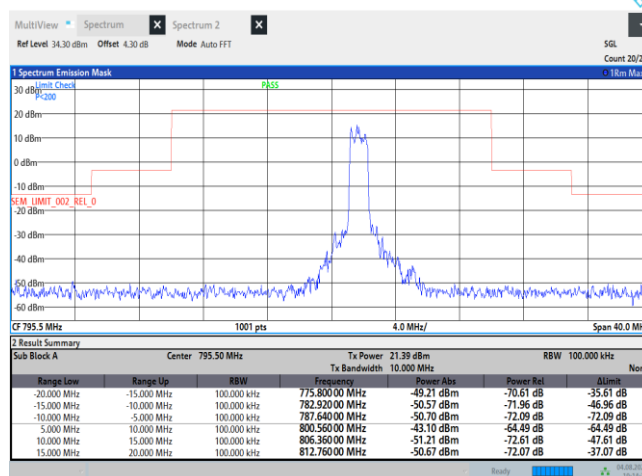
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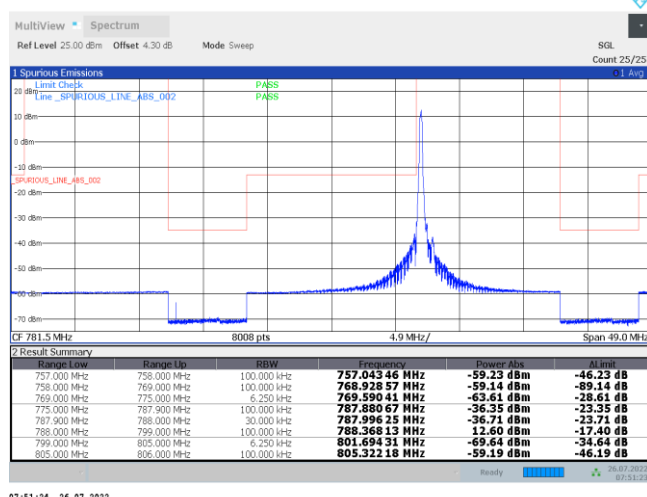
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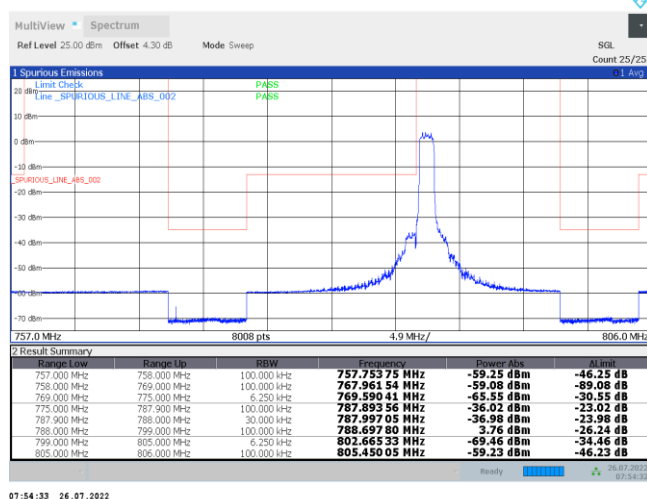
Band Edge

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-6RB#0



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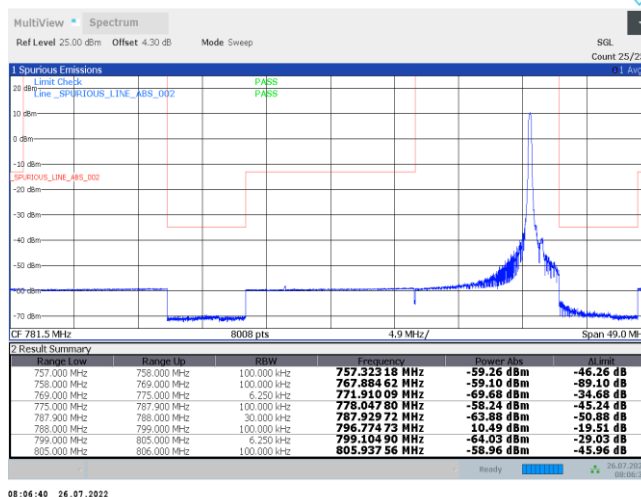
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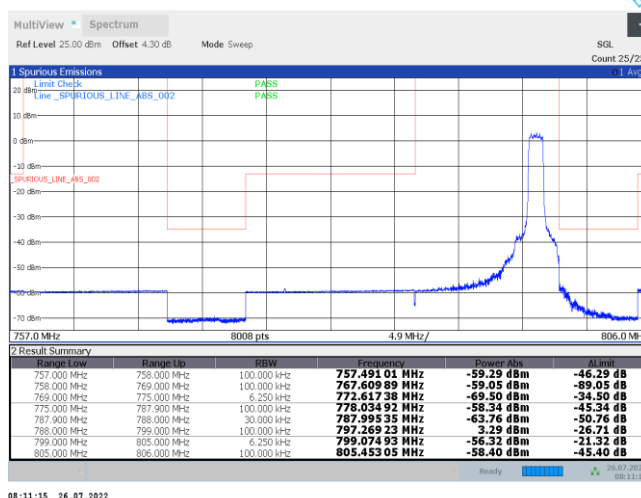
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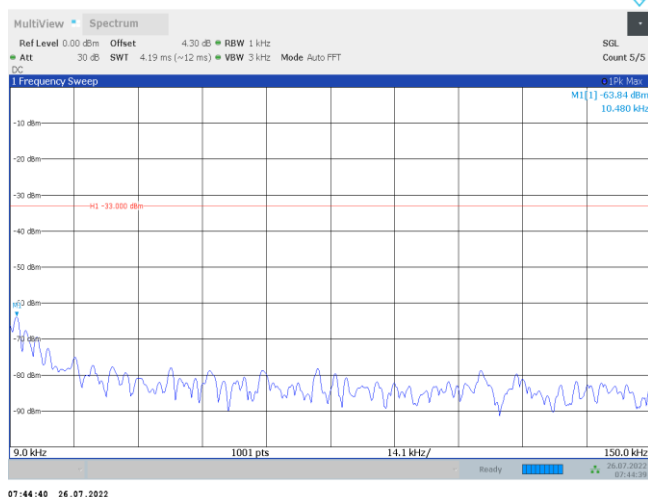
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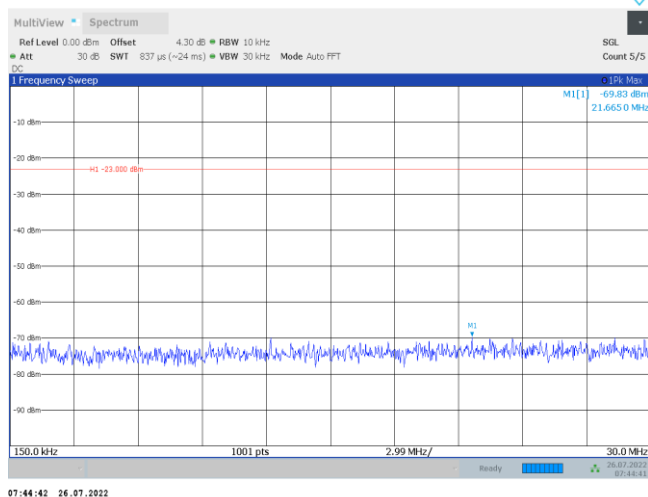
Conducted Spurious Emission

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0-Range1:0.009~0.15MHz



Band14-5MHz-QPSK-23305-1RB#0-Range2:0.15~30MHz



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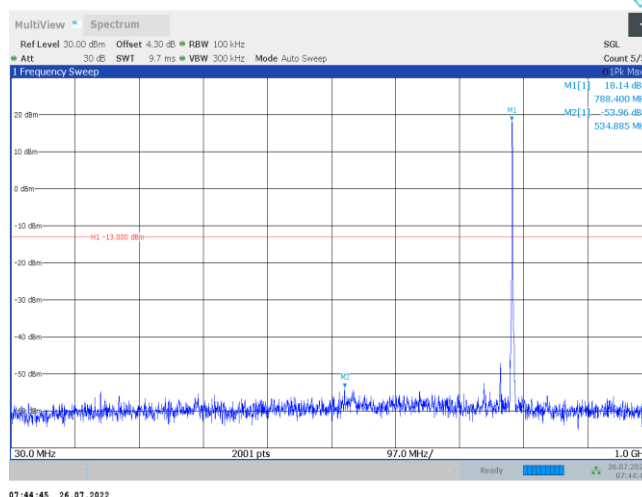
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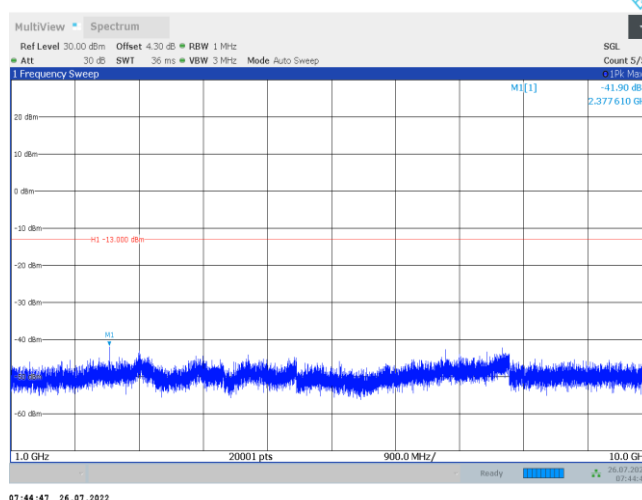
Rev.: 01

Page: 15 of 23

Band14-5MHz-QPSK-23305-1RB#0-Range3:30~1000MHz



Band14-5MHz-QPSK-23305-1RB#0-Range4:1000~10000MHz



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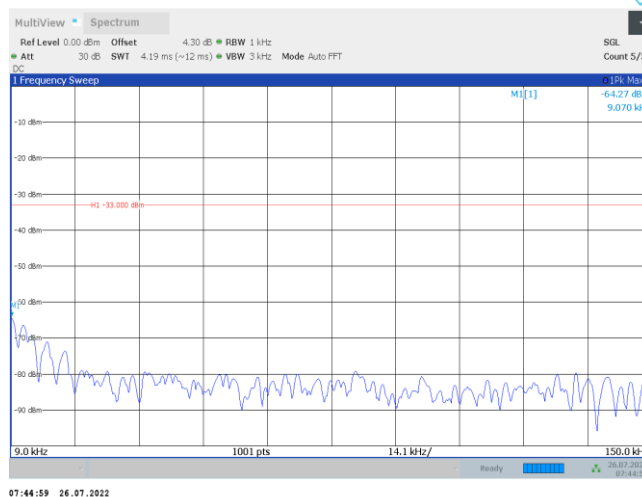
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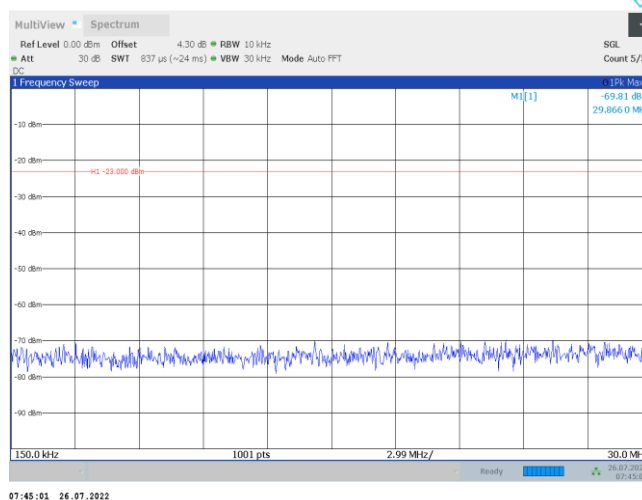
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Page: 16 of 23

Band14-5MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-5MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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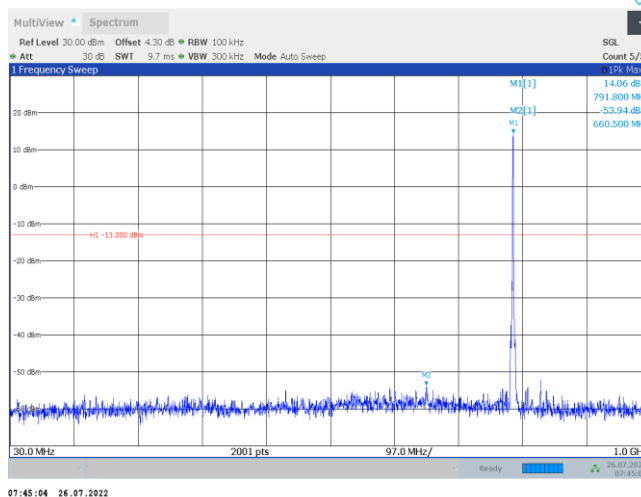
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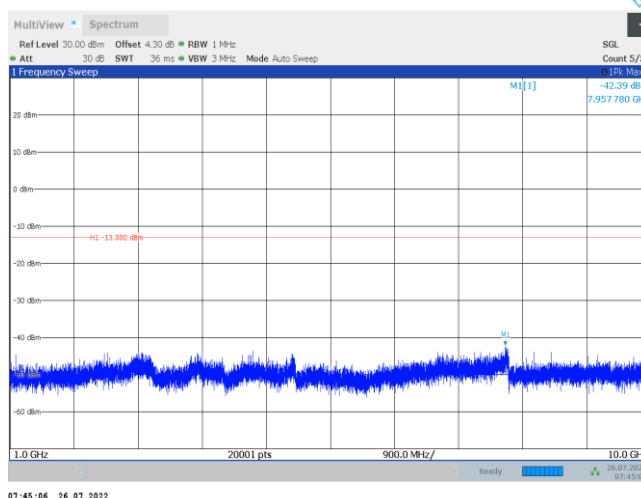
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Page: 17 of 23

Band14-5MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-5MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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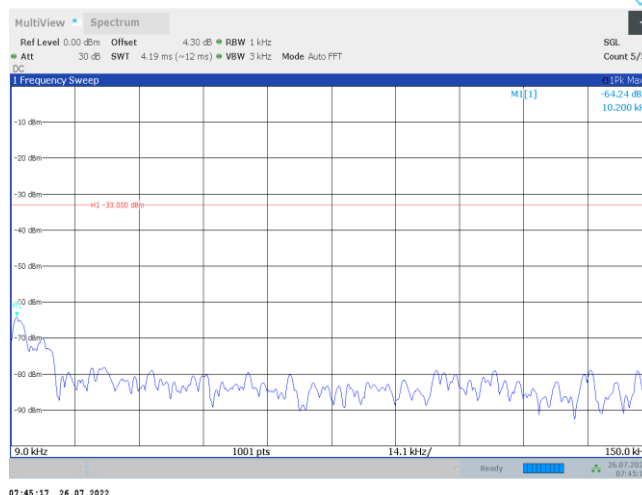
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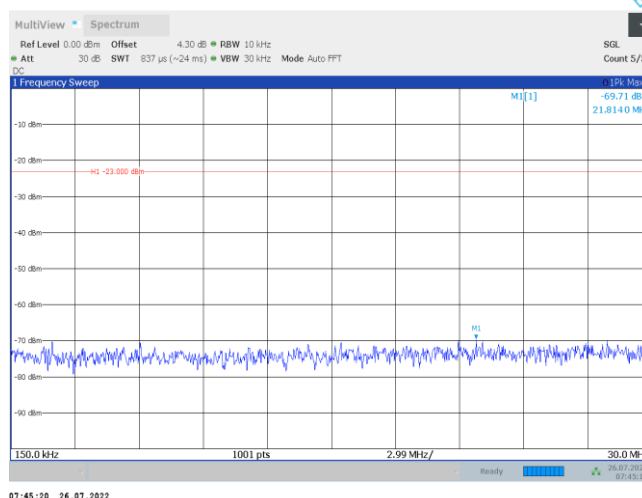
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Page: 18 of 23

Band14-5MHz-QPSK-23355-1RB#0-Range1:0.009~0.15MHz



Band14-5MHz-QPSK-23355-1RB#0-Range2:0.15~30MHz



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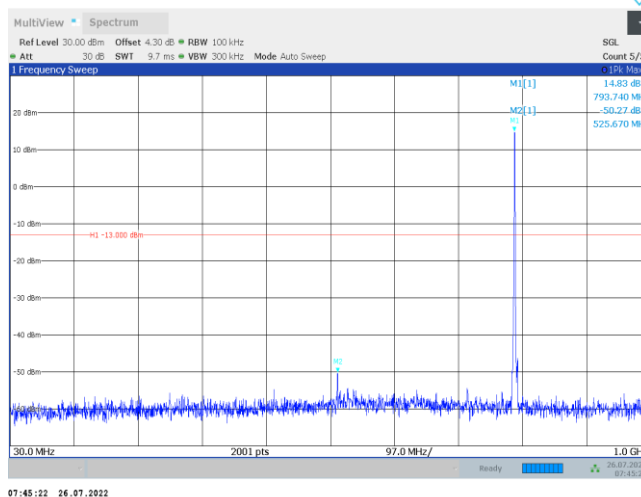
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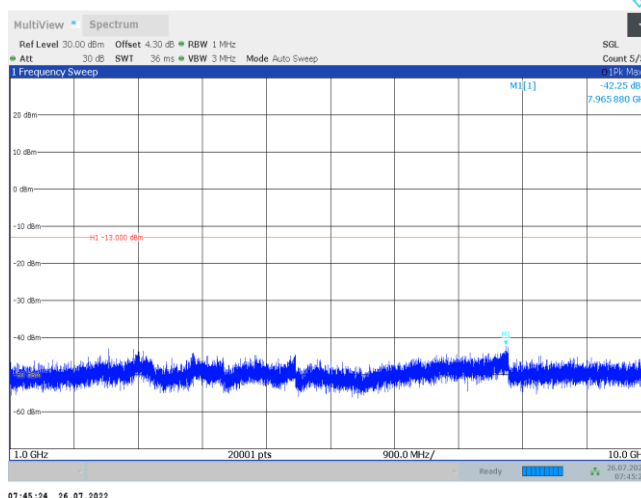
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Page: 19 of 23

Band14-5MHz-QPSK-23355-1RB#0-Range3:30~1000MHz



Band14-5MHz-QPSK-23355-1RB#0-Range4:1000~10000MHz



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Rev.: 01

Page: 20 of 23

Field Strength of Spurious Radiation

Test Band = CAT M1 Band 14_ 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	1579.6800	51.65	-48.29	25.38	-66.52	-40.00	26.52	214	360	Horizontal
2	2365.0200	77.78	-47.47	27.42	-37.52	-13.00	24.52	156	225	Horizontal
3	3153.3600	59.53	-46.50	29.60	-52.63	-13.00	39.63	231	185	Horizontal
4	3942.2857	57.87	-46.22	30.66	-52.94	-13.00	39.94	173	225	Horizontal
5	4730.0400	49.31	-45.75	32.11	-59.59	-13.00	46.59	255	159	Horizontal
6	5518.3800	49.11	-45.16	32.93	-58.38	-13.00	45.38	147	351	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	1579.6800	51.94	-48.29	25.38	-66.23	-40.00	26.23	163	0	Vertical
2	2365.0200	58.96	-47.47	27.42	-56.34	-13.00	43.34	214	118	Vertical
3	3153.3600	53.72	-46.50	29.60	-58.44	-13.00	45.44	157	268	Vertical
4	3941.7000	50.69	-46.22	30.66	-60.12	-13.00	47.12	184	346	Vertical
5	4730.0400	49.16	-45.75	32.11	-59.74	-13.00	46.74	196	187	Vertical
6	5518.3800	49.28	-45.16	32.93	-58.21	-13.00	45.21	226	213	Vertical



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Rev.: 01

Page: 21 of 23

Test Band = CAT M1 Band 14_ 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	1581.6800	68.64	-48.29	25.37	-49.53	-40.00	9.53	241	238	Horizontal
2	2372.5200	77.33	-47.46	27.43	-37.97	-13.00	24.97	169	225	Horizontal
3	3163.3600	59.98	-46.46	29.62	-52.12	-13.00	39.12	223	93	Horizontal
4	3954.2000	55.11	-46.21	30.69	-55.67	-13.00	42.67	257	276	Horizontal
5	4745.0400	50.11	-45.73	32.15	-58.73	-13.00	45.73	183	250	Horizontal
6	5535.8800	49.42	-45.19	32.95	-58.08	-13.00	45.08	167	355	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	1581.6800	54.55	-48.29	25.37	-63.62	-40.00	23.62	171	357	Vertical
2	2373.1429	59.13	-47.46	27.43	-56.17	-13.00	43.17	218	243	Vertical
3	3163.3600	52.45	-46.46	29.62	-59.65	-13.00	46.65	256	176	Vertical
4	3954.2000	49.94	-46.21	30.69	-60.84	-13.00	47.84	246	255	Vertical
5	4745.0400	49.70	-45.73	32.15	-59.14	-13.00	46.14	197	0	Vertical
6	5535.8800	48.55	-45.19	32.95	-58.95	-13.00	45.95	228	121	Vertical



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Rev.: 01

Page: 22 of 23

Test Band = CAT M1 Band 14_ 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	1586.6800	67.64	-48.29	25.37	-50.54	-40.00	10.54	162	209	Horizontal
2	2380	79.36	-47.46	27.43	-35.93	-13.00	22.93	158	236	Horizontal
3	3173.1429	64.20	-46.41	29.64	-47.84	-13.00	34.84	221	236	Horizontal
4	3966.7000	58.26	-46.21	30.72	-52.49	-13.00	39.49	241	275	Horizontal
5	4760.0400	48.80	-45.70	32.20	-59.96	-13.00	46.96	187	3	Horizontal
6	5553.3800	48.74	-45.21	32.97	-58.76	-13.00	45.76	169	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	1586.6800	52.80	-48.29	25.37	-65.38	-40.00	25.38	158	282	Vertical
2	2380.0200	59.29	-47.46	27.43	-56.00	-13.00	43.00	169	150	Vertical
3	3173.3600	51.51	-46.41	29.64	-60.52	-13.00	47.52	218	136	Vertical
4	3966.7000	50.28	-46.21	30.72	-60.47	-13.00	47.47	246	71	Vertical
5	4760.0400	48.37	-45.70	32.20	-60.39	-13.00	47.39	253	71	Vertical
6	5553.3800	49.56	-45.21	32.97	-57.94	-13.00	44.94	183	1	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading Level} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain (dB)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$

$$\text{dBm} = \text{dBμV} - 95.26$$


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Rev.: 01

Page: 23 of 23

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	5MHz	QPSK	23330	6RB#0	VL	NT	-0.20	-0.000252	PASS
Band14	5MHz	QPSK	23330	6RB#0	VN	NT	0.20	0.000252	PASS
Band14	5MHz	QPSK	23330	6RB#0	VH	NT	-1.40	-0.001765	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	5MHz	QPSK	23330	6RB#0	NV	-30	-0.20	-0.000252	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	-20	1.10	0.001387	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	-10	1.00	0.001261	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	0	1.40	0.001765	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	10	-1.50	-0.001892	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	20	-1.10	-0.001387	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	30	-0.50	-0.000631	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	40	0.50	0.000631	PASS
Band14	5MHz	QPSK	23330	6RB#0	NV	50	-1.60	-0.002018	PASS

---End of Attachment---



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