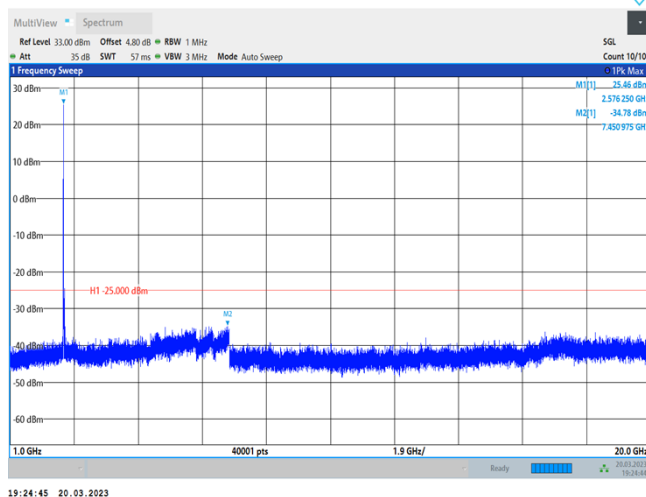


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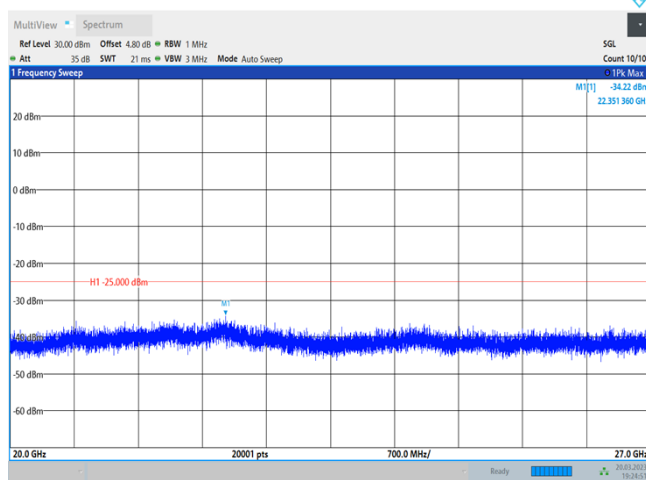
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38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-1000~20000MHz



19:24:45 20.03.2023

38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-20000~27000MHz



19:24:52 20.03.2023



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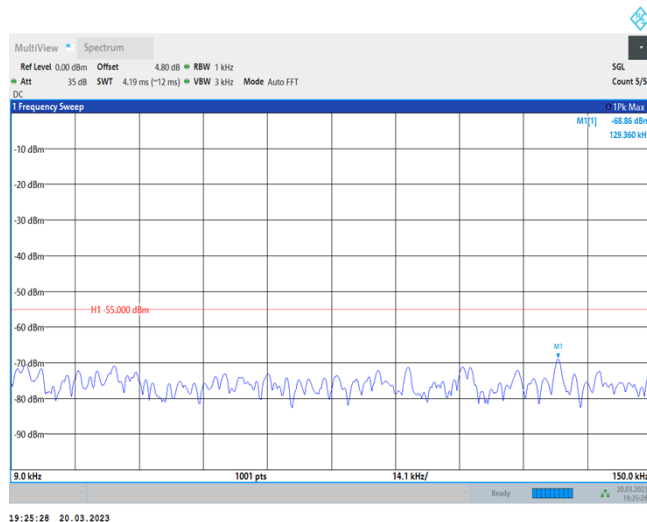
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Report No.: SEWM2311000473RG01

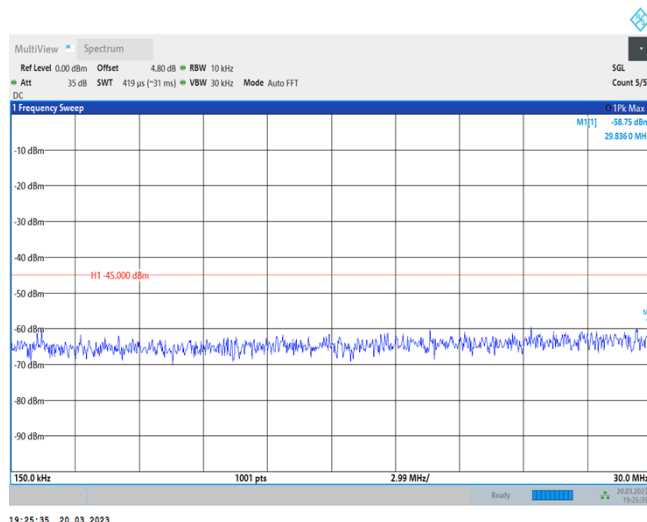
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.009~0.15MHz



38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-0.15~30MHz



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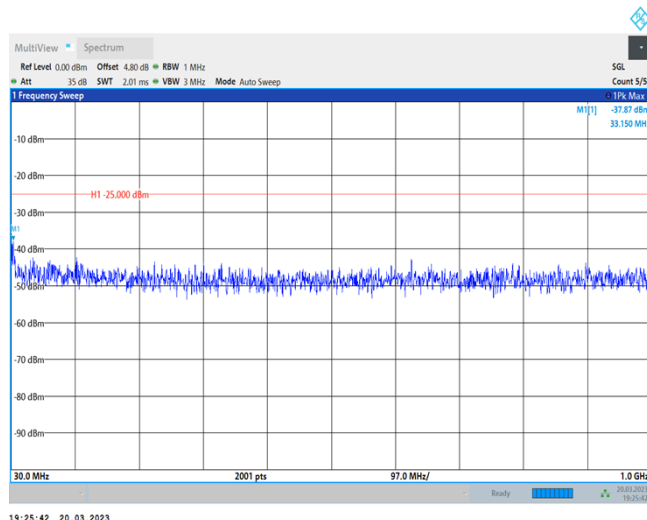
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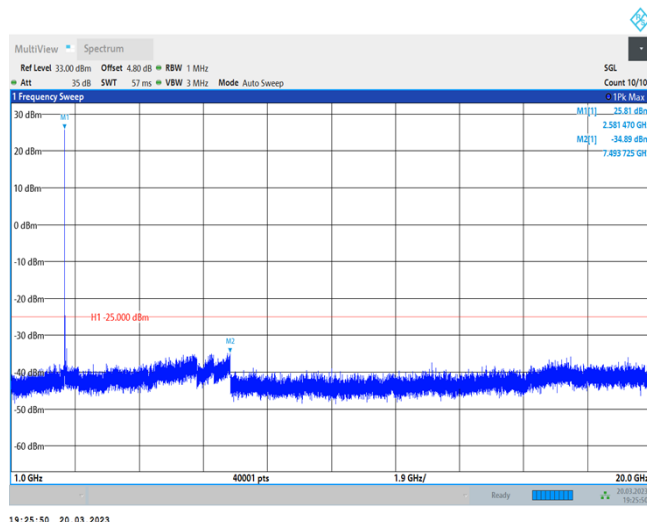
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-30~1000MHz



38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-1000~20000MHz



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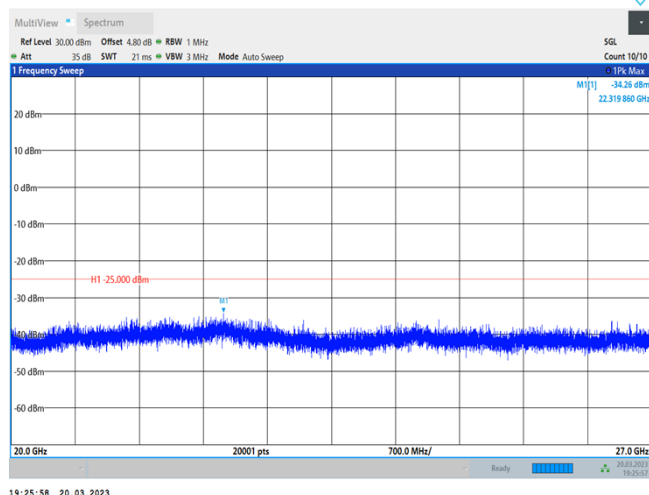
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band38C_ 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	5151	59.39	-45.32	32.96	-48.23	-25.00	23.23	189	60	Horizontal
2	7713.2700	39.59	-43.01	36.61	-62.07	-25.00	37.07	215	14	Horizontal
3	10284.3600	34.08	-39.15	38.83	-61.50	-25.00	36.50	223	4	Horizontal
4	12855.4500	31.60	-36.99	39.69	-60.96	-25.00	35.96	194	118	Horizontal
5	15426.5400	31.21	-33.99	38.67	-59.37	-25.00	34.37	205	360	Horizontal
6	17997.6300	32.41	-34.58	42.23	-55.19	-25.00	30.19	183	73	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	5151	64.67	-45.32	32.96	-42.95	-25.00	17.95	208	120	Vertical
2	7726.5	44.38	-42.91	36.64	-57.15	-25.00	32.15	142	120	Vertical
3	10302	40.34	-39.09	38.84	-55.17	-25.00	30.17	139	134	Vertical
4	12855.4500	32.18	-36.99	39.69	-60.38	-25.00	35.38	284	300	Vertical
5	15426.5400	30.47	-33.99	38.67	-60.11	-25.00	35.11	156	269	Vertical
6	17997.6300	32.43	-34.58	42.23	-55.17	-25.00	30.17	228	360	Vertical



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Test Band = LTE Band38C_ 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	3975	43.07	-46.10	30.74	-67.55	-25.00	42.55	219	360	Horizontal
2	5177.25	48.19	-45.30	32.98	-59.39	-25.00	34.39	305	90	Horizontal
3	7728.5700	39.28	-42.89	36.64	-62.23	-25.00	37.23	289	30	Horizontal
4	10304.7600	34.90	-39.09	38.84	-60.61	-25.00	35.61	164	29	Horizontal
5	12880.9500	32.48	-37.06	39.71	-60.13	-25.00	35.13	257	360	Horizontal
6	15457.1400	30.66	-34.57	38.63	-60.54	-25.00	35.54	143	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	4005	43.56	-46.03	30.81	-66.92	-25.00	41.92	187	283	Vertical
2	5167.5	53.65	-45.31	32.97	-53.95	-25.00	28.95	149	88	Vertical
3	7728.5700	38.97	-42.89	36.64	-62.54	-25.00	37.54	208	343	Vertical
4	10304.7600	33.64	-39.09	38.84	-61.87	-25.00	36.87	216	88	Vertical
5	12880.9500	31.31	-37.06	39.71	-61.30	-25.00	36.30	238	284	Vertical
6	15457.1400	30.06	-34.57	38.63	-61.14	-25.00	36.14	306	3	Vertical



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Test Band = LTE Band38C_ 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	3923.25	42.81	-46.22	30.62	-68.05	-25.00	43.05	199	360	Horizontal
2	5184	51.10	-45.29	32.98	-56.47	-25.00	31.47	267	59	Horizontal
3	7743.8700	39.39	-42.76	36.67	-61.96	-25.00	36.96	100	360	Horizontal
4	10325.1600	34.04	-39.07	38.84	-61.45	-25.00	36.45	249	299	Horizontal
5	12906.4500	32.35	-37.12	39.74	-60.30	-25.00	35.30	251	352	Horizontal
6	15487.7400	29.14	-35.15	38.59	-62.68	-25.00	37.68	178	164	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	3696.75	42.24	-45.52	29.96	-68.58	-25.00	43.58	233	88	Vertical
2	5187.75	55.11	-45.29	32.98	-52.46	-25.00	27.46	174	120	Vertical
3	7743.8700	40.17	-42.76	36.67	-61.18	-25.00	36.18	219	360	Vertical
4	10325.1600	35.02	-39.07	38.84	-60.47	-25.00	35.47	266	165	Vertical
5	12906.4500	31.91	-37.12	39.74	-60.74	-25.00	35.74	283	359	Vertical
6	15487.7400	29.67	-35.15	38.59	-62.15	-25.00	37.15	152	29	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
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VH	NT	38.80	0.015009	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VL	NT	30.60	0.011837	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VN	NT	43.50	0.016827	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	30	40.20	0.015551	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	20	55.40	0.021431	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	10	51.10	0.019767	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	0	34.90	0.013500	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-10	37.20	0.014390	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-20	47.00	0.018181	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-30	40.70	0.015744	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-50	48.60	0.018800	PASS

---End of Attachment---



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Wireless Laboratory

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