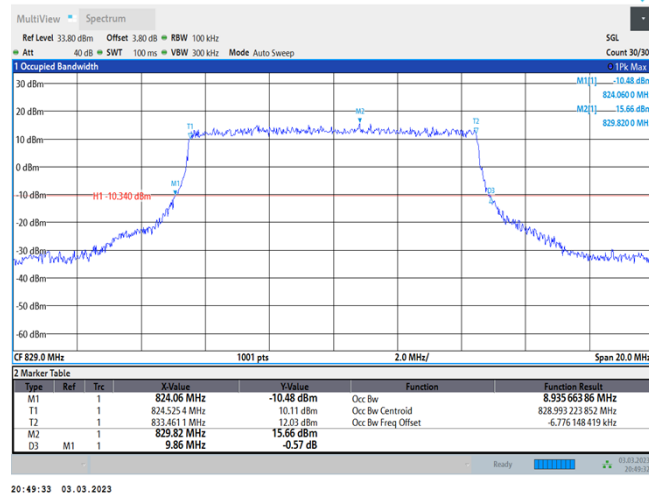


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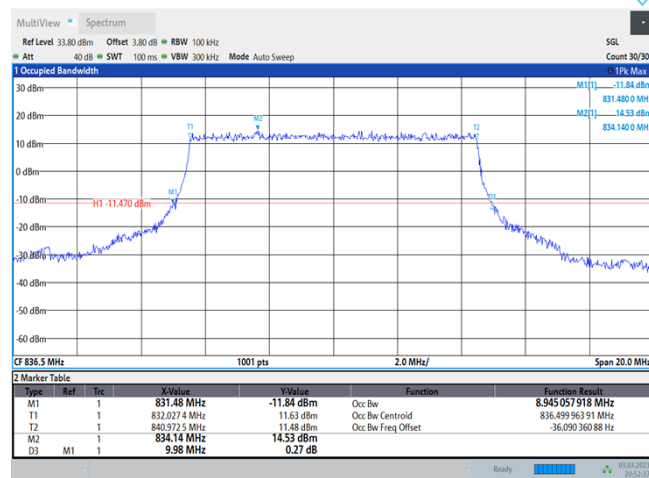
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Band5-10MHz-QPSK-20450-50RB#0



20:49:33 03.03.2023

Band5-10MHz-QPSK-20525-50RB#0



20:52:38 03.03.2023



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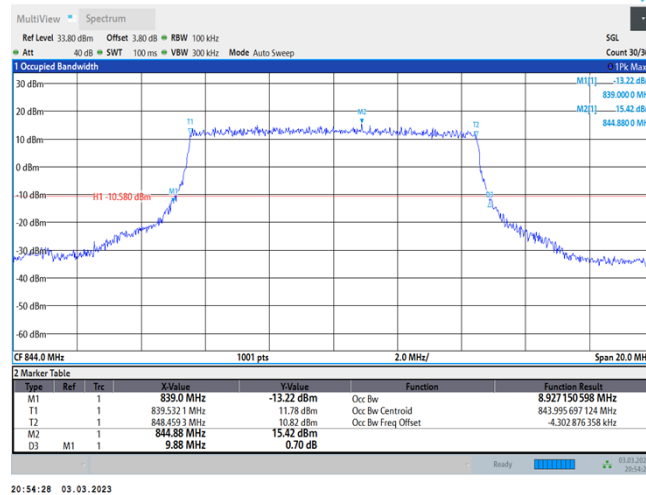
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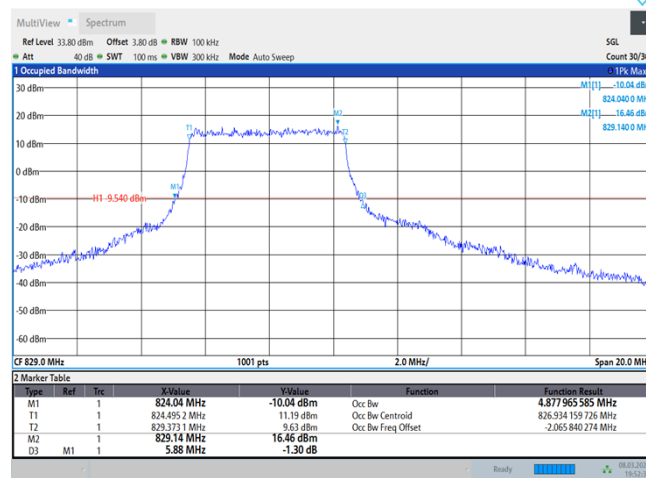
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Band5-10MHz-QPSK-20600-50RB#0



20:54:28 03.03.2023

Band5-10MHz-16QAM-20450-27RB#0



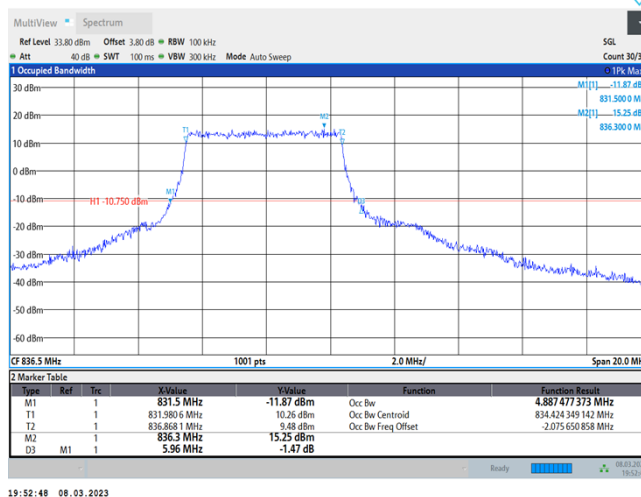
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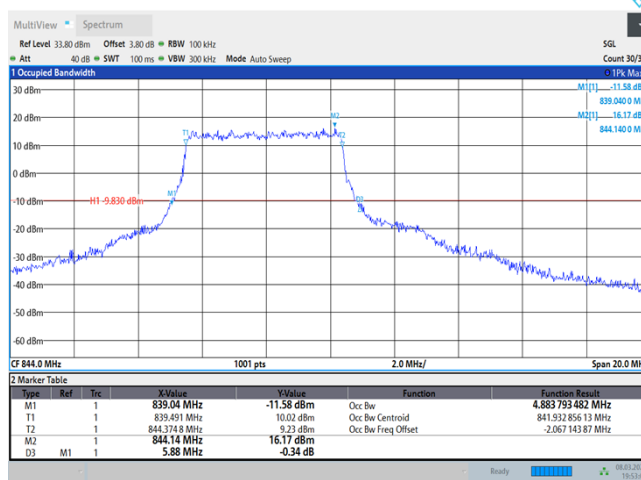
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Band5-10MHz-16QAM-20525-27RB#0



19:52:48 08.03.2023

Band5-10MHz-16QAM-20600-27RB#0



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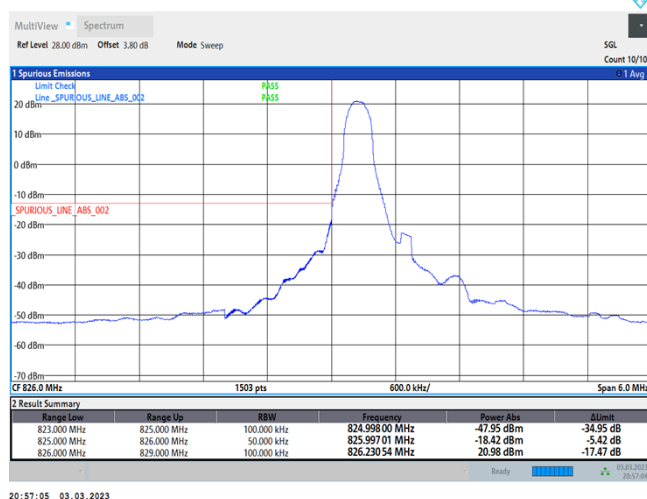
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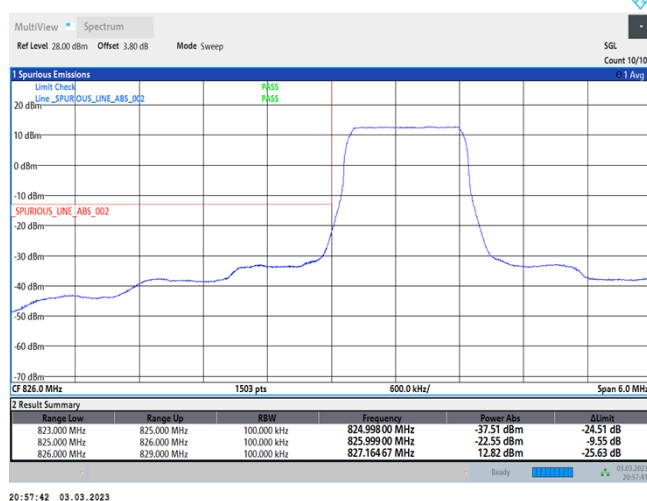
Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



Band5-1.4MHz-QPSK-20427-6RB#0



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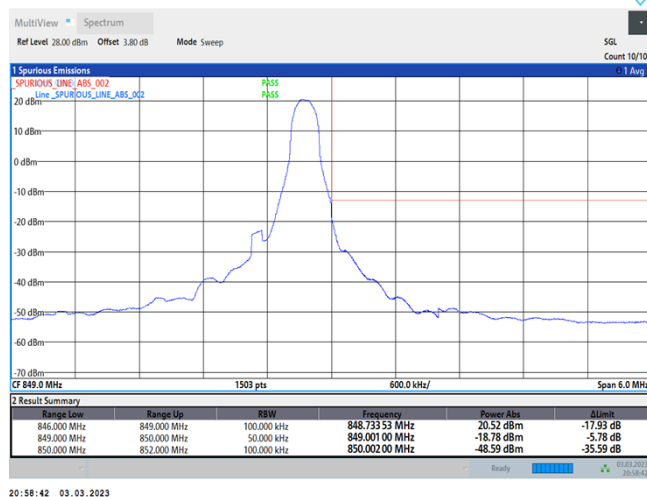
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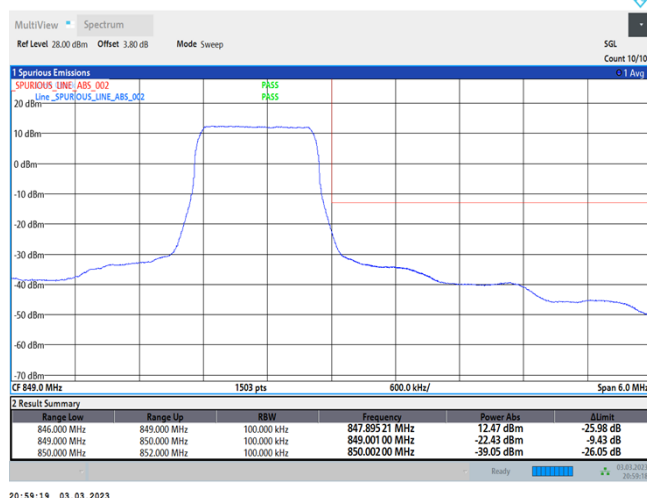
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Band5-1.4MHz-QPSK-20643-1RB#5



Band5-1.4MHz-QPSK-20643-6RB#0



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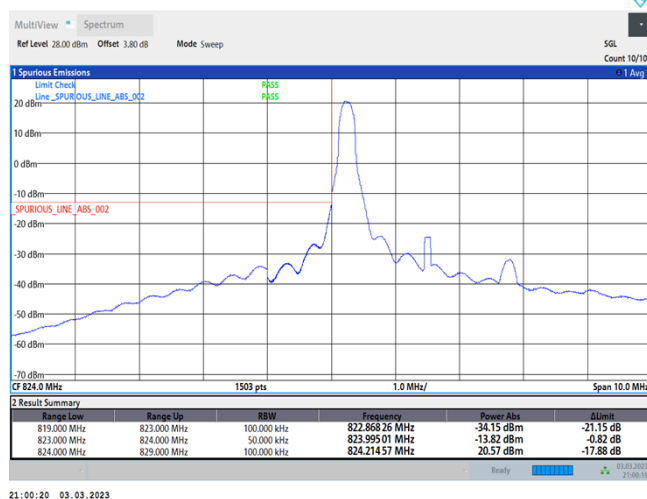
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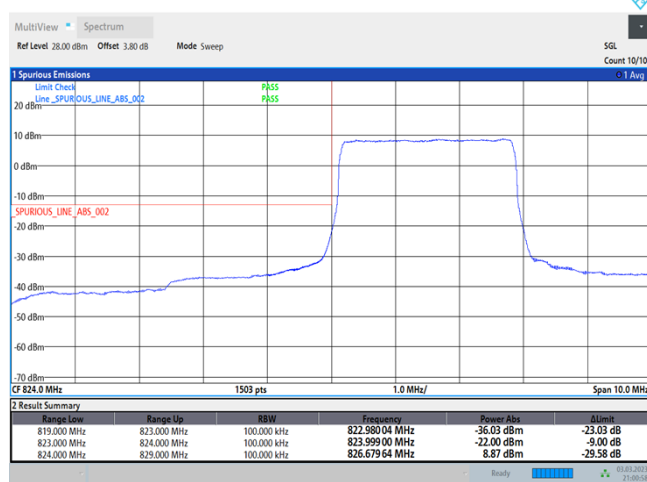
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Band5-3MHz-QPSK-20415-1RB#0



21:00:20 03.03.2023

Band5-3MHz-QPSK-20415-15RB#0



21:00:59 03.03.2023



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Band5-3MHz-QPSK-20635-1RB#14



Band5-3MHz-QPSK-20635-15RB#0



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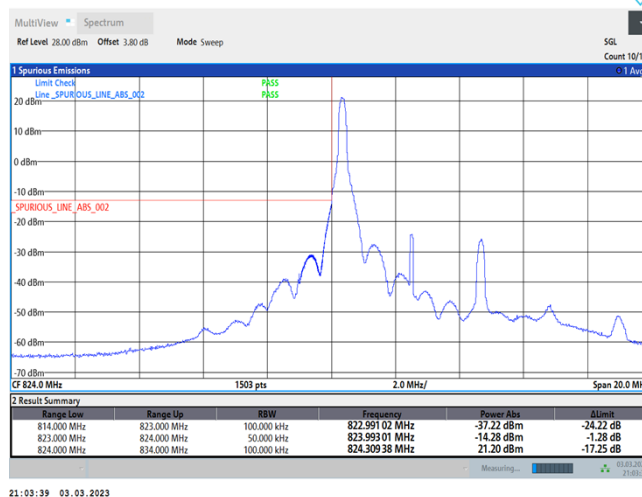
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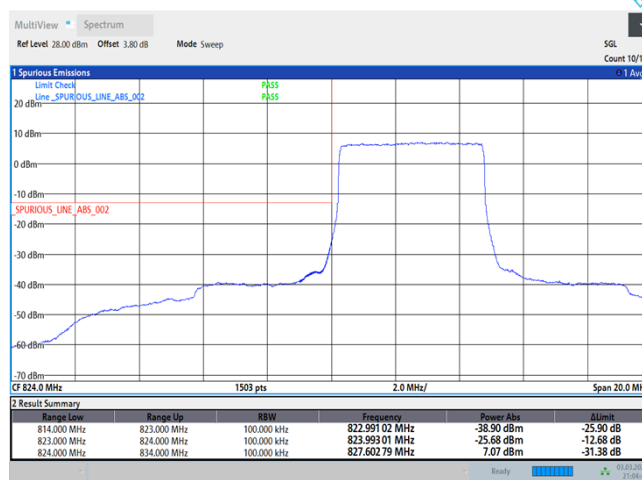
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Band5-5MHz-QPSK-20425-1RB#0



21:03:39 03.03.2023

Band5-5MHz-QPSK-20425-25RB#0



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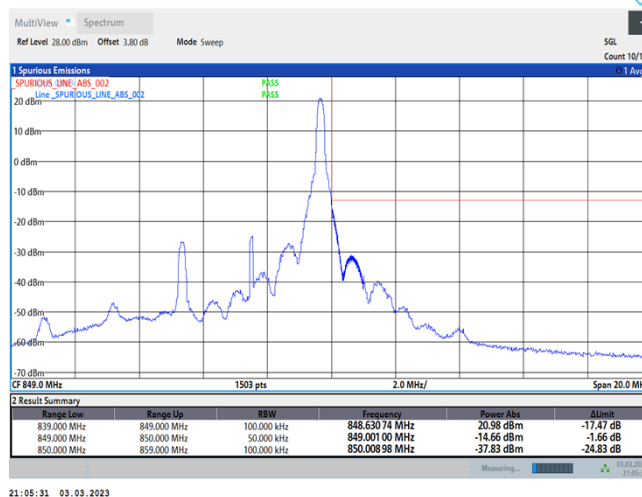
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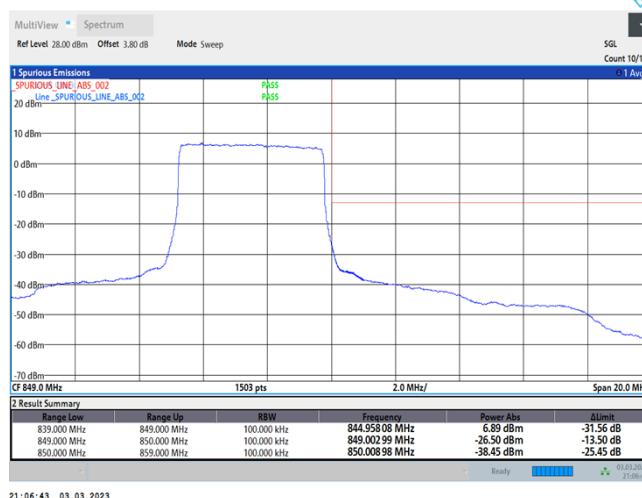
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Band5-5MHz-QPSK-20625-25RB#0



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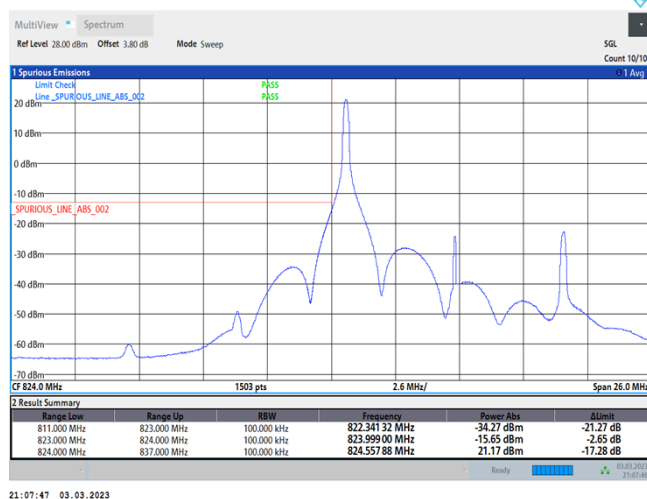
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Band5-10MHz-QPSK-20450-1RB#0



Band5-10MHz-QPSK-20450-50RB#0



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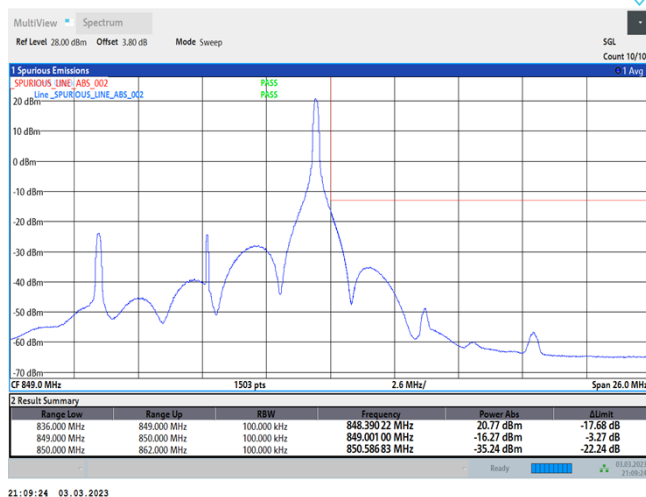
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Band5-10MHz-QPSK-20600-50RB#0



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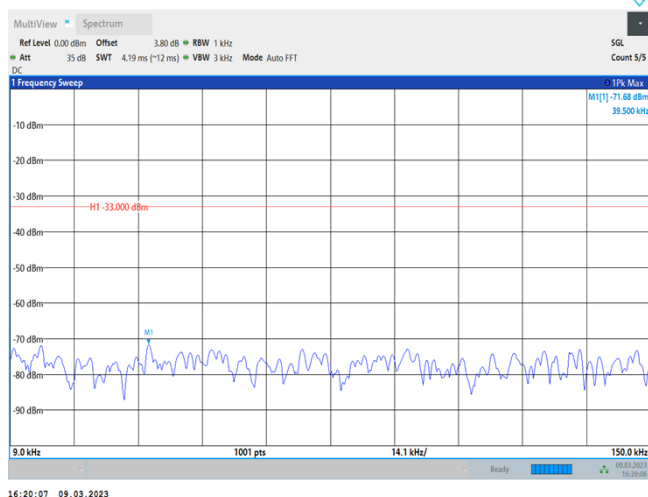
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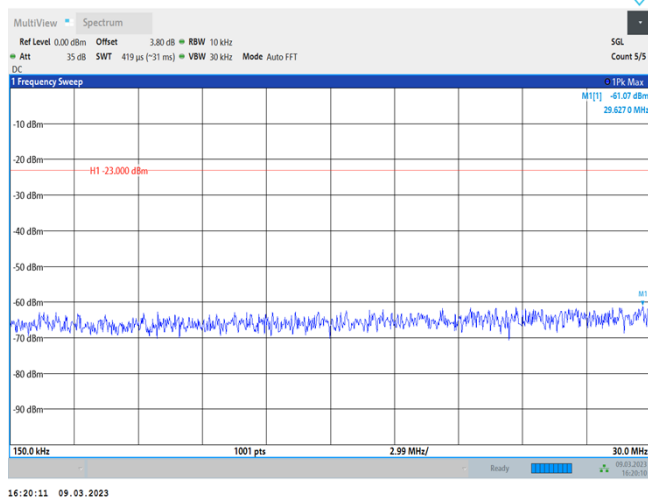
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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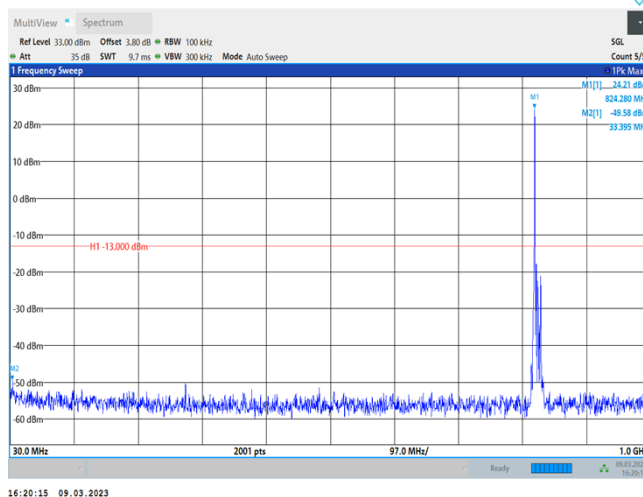
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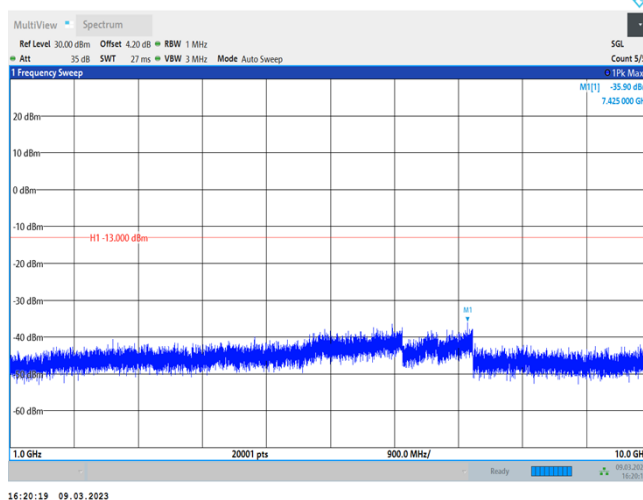
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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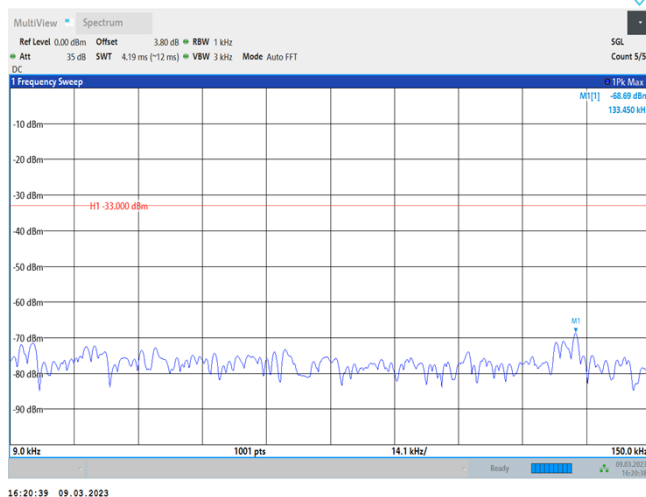
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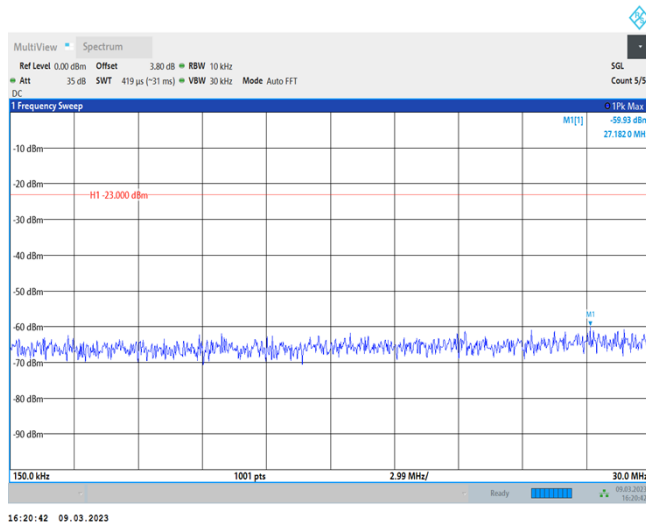
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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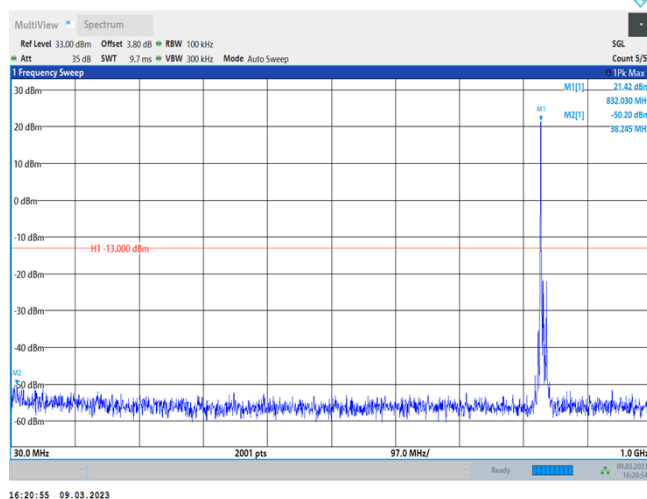
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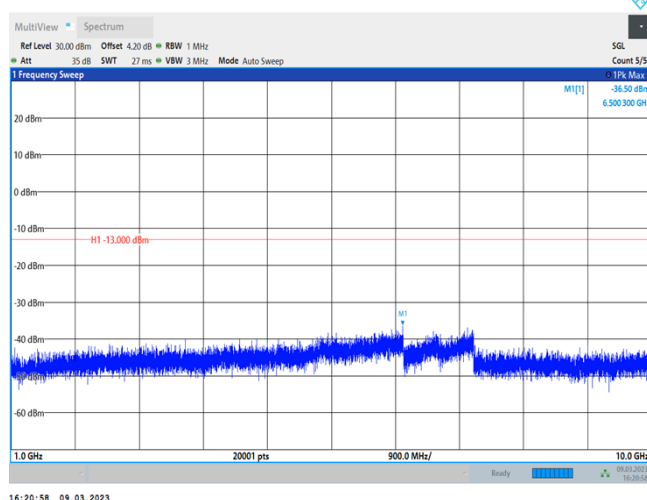
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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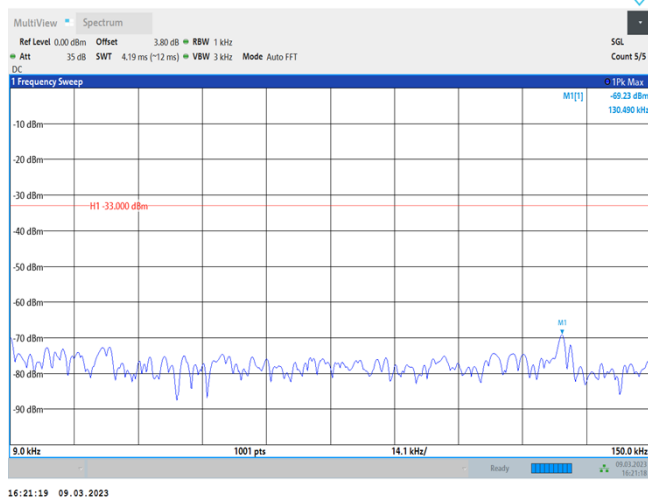
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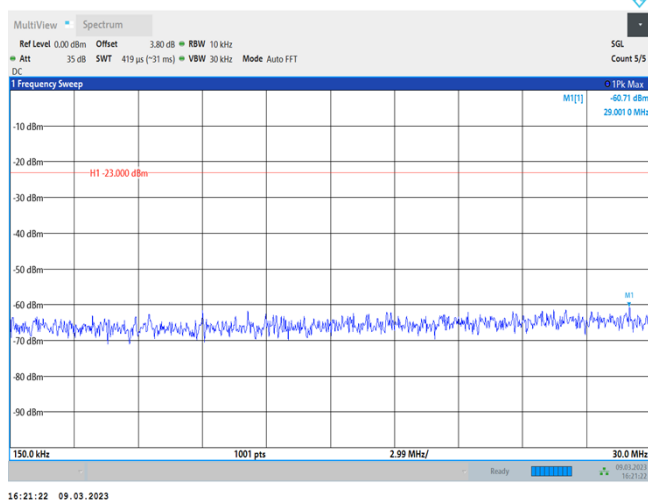
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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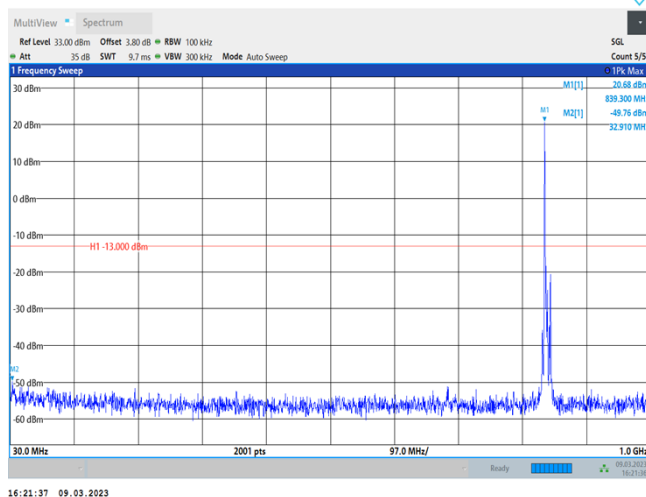
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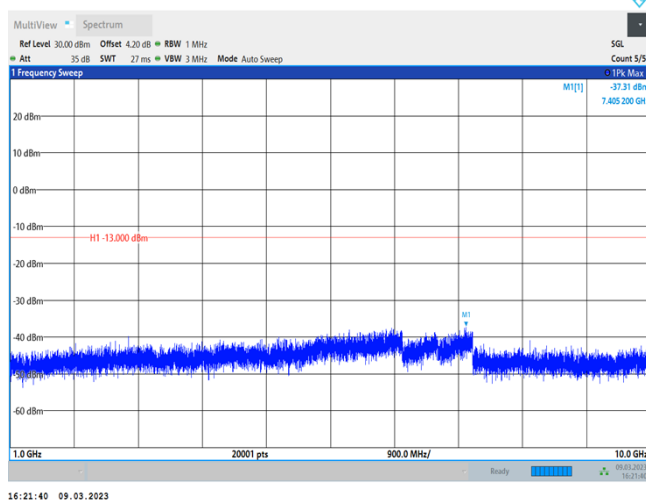
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_QPSK_10MHz_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	1649.18	53.36	-48.38	25.58	-64.71	-13.00	51.71	162	13	Horizontal
2	2473.77	49.79	-46.96	27.85	-64.58	-13.00	51.58	241	154	Horizontal
3	3298.36	45.94	-46.11	29.48	-65.95	-13.00	52.95	168	139	Horizontal
4	4122.95	41.30	-45.34	30.80	-68.50	-13.00	55.50	209	184	Horizontal
5	4947.54	40.38	-45.08	32.48	-67.49	-13.00	54.49	238	301	Horizontal
6	5772.13	38.03	-43.52	33.47	-67.28	-13.00	54.28	214	1	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	1649.18	48.48	-48.38	25.58	-69.59	-13.00	56.59	147	99	Vertical
2	2473.77	63.80	-46.96	27.85	-50.57	-13.00	37.57	216	277	Vertical
3	3298.36	45.18	-46.11	29.48	-66.71	-13.00	53.71	225	247	Vertical
4	4122.95	43.17	-45.34	30.80	-66.63	-13.00	53.63	248	233	Vertical
5	4947.54	40.63	-45.08	32.48	-67.24	-13.00	54.24	159	360	Vertical
6	5772.13	38.77	-43.52	33.47	-66.54	-13.00	53.54	186	337	Vertical



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Test Band = LTE Band 5_QPSK_10MHz_ 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	1664.18	57.23	-48.34	25.57	-60.80	-13.00	47.80	185	317	Horizontal
2	2496.27	45.12	-46.77	27.89	-69.02	-13.00	56.02	213	156	Horizontal
3	3328.36	44.20	-46.16	29.47	-67.75	-13.00	54.75	221	54	Horizontal
4	4160.45	42.10	-45.23	30.86	-67.53	-13.00	54.53	245	69	Horizontal
5	4992.54	39.63	-45.02	32.58	-68.07	-13.00	55.07	156	230	Horizontal
6	5824.63	39.83	-43.43	33.64	-65.22	-13.00	52.22	205	358	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	1664.18	52.87	-48.34	25.57	-65.16	-13.00	52.16	234	115	Vertical
2	2496.27	55.76	-46.77	27.89	-58.38	-13.00	45.38	154	205	Vertical
3	3328.36	43.61	-46.16	29.47	-68.34	-13.00	55.34	176	248	Vertical
4	4160.45	42.04	-45.23	30.86	-67.59	-13.00	54.59	159	337	Vertical
5	4992.54	40.47	-45.02	32.58	-67.23	-13.00	54.23	215	360	Vertical
6	5824.63	39.54	-43.43	33.64	-65.51	-13.00	52.51	238	308	Vertical



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Test Band = LTE Band 5_QPSK_10MHz_ 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	1679.18	61.29	-48.30	25.56	-56.71	-13.00	43.71	142	230	Horizontal
2	2518.77	46.06	-46.84	27.96	-68.07	-13.00	55.07	231	38	Horizontal
3	3358.36	45.40	-46.21	29.46	-66.61	-13.00	53.61	225	100	Horizontal
4	4197.95	42.68	-45.12	30.92	-66.78	-13.00	53.78	168	216	Horizontal
5	5037.54	39.92	-44.85	32.60	-67.59	-13.00	54.59	174	230	Horizontal
6	5887.13	39.30	-43.24	33.84	-65.36	-13.00	52.36	215	0	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	1679.18	59.58	-48.30	25.56	-58.42	-13.00	45.42	209	325	Vertical
2	2518.77	60.17	-46.84	27.96	-53.96	-13.00	40.96	149	146	Vertical
3	3358.36	44.61	-46.21	29.46	-67.40	-13.00	54.40	285	279	Vertical
4	4197.95	43.25	-45.12	30.92	-66.21	-13.00	53.21	165	358	Vertical
5	5037.54	40.05	-44.85	32.60	-67.46	-13.00	54.46	220	101	Vertical
6	5887.13	39.18	-43.24	33.84	-65.48	-13.00	52.48	178	3	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-5.40	-0.006455	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-3.10	-0.003706	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-3.80	-0.004543	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-4.00	-0.004782	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-3.80	-0.004543	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.50	0.000598	±2.5	PASS

---End of Attachment---



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