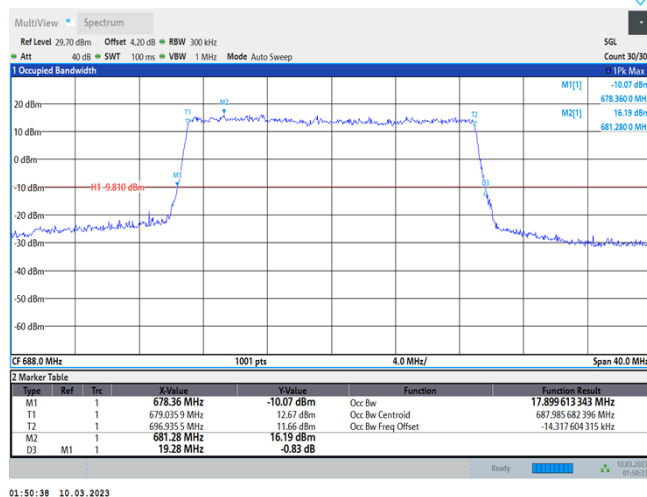


Report No.: SEWM2311000473RG01

Rev.: 01

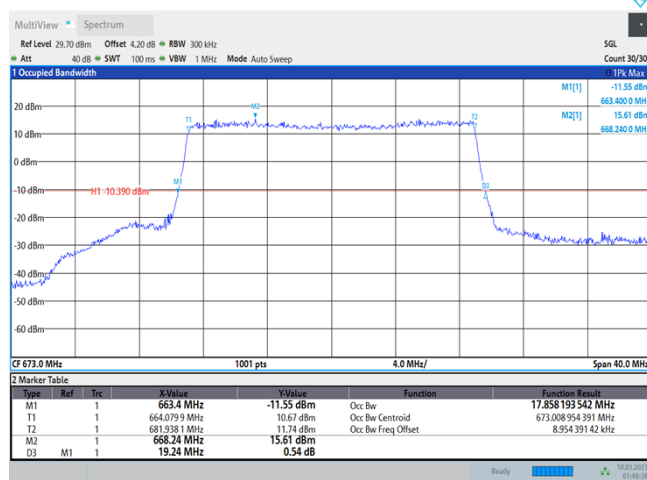
Page: 37 of 62

Band71-20MHz-QPSK-133372-100RB#0



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Band71-20MHz-16QAM-133222-100RB#0



01:48:39 10.03.2023



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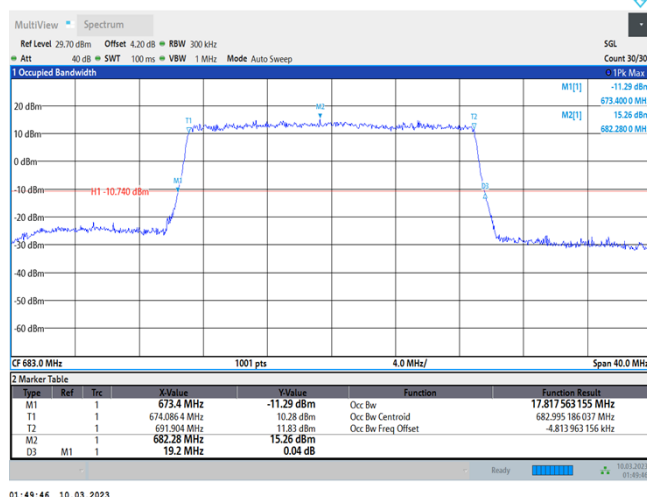
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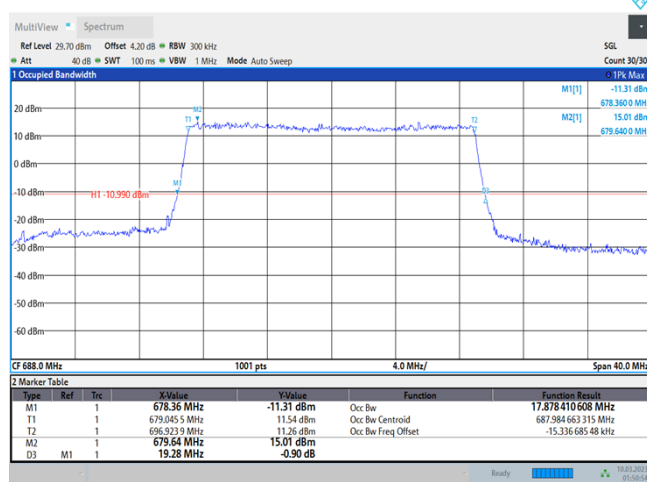
Report No.: SEWM2311000473RG01
Rev.: 01
Page: 38 of 62

Band71-20MHz-16QAM-133322-100RB#0



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Band71-20MHz-16QAM-133372-100RB#0



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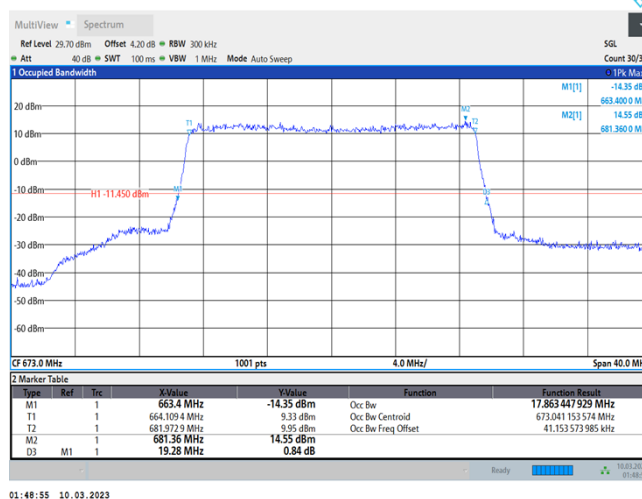
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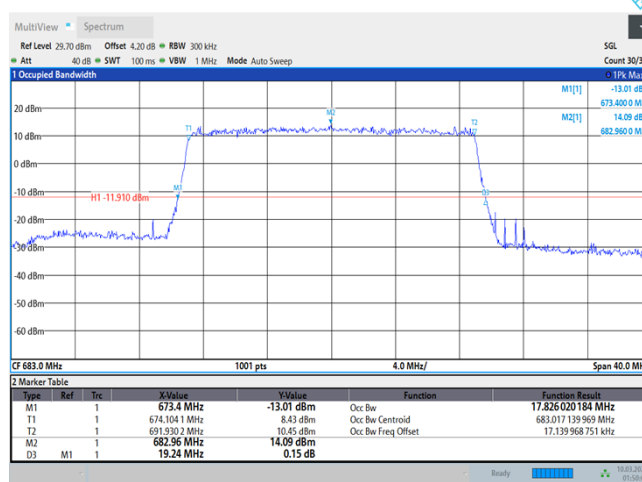
Page: 39 of 62

Band71-20MHz-64QAM-133222-100RB#0



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Band71-20MHz-64QAM-133222-100RB#0



01:50:03 10.03.2023



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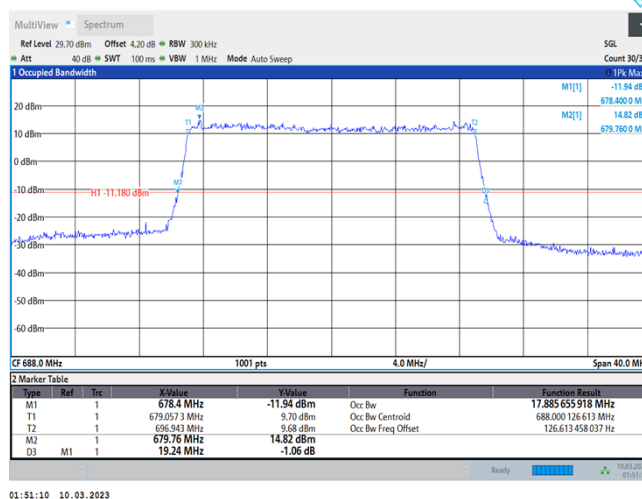
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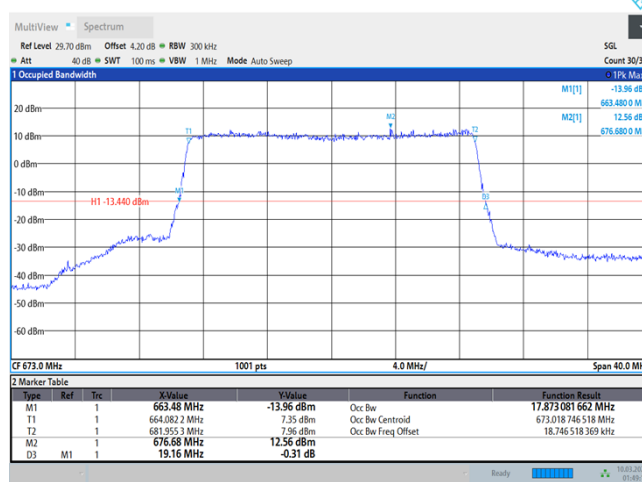
Page: 40 of 62

Band71-20MHz-64QAM-133372-100RB#0



01:51:10 10.03.2023

Band71-20MHz-256QAM-133222-100RB#0



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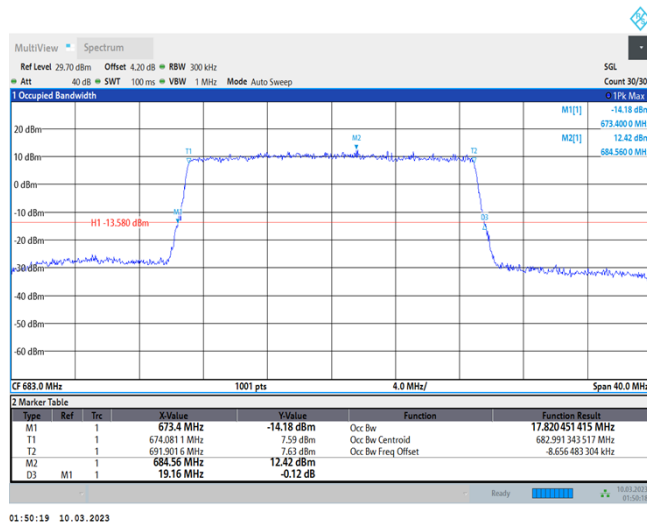
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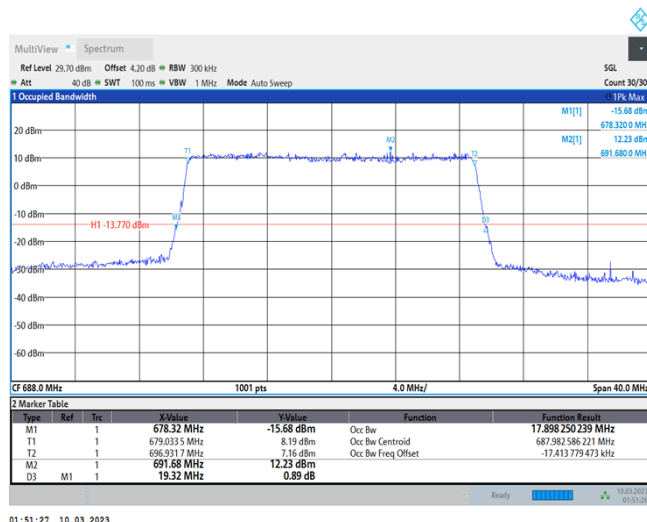
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Report No.: SEWM2311000473RG01
Rev.: 01
Page: 41 of 62

Band71-20MHz-256QAM-133322-100RB#0



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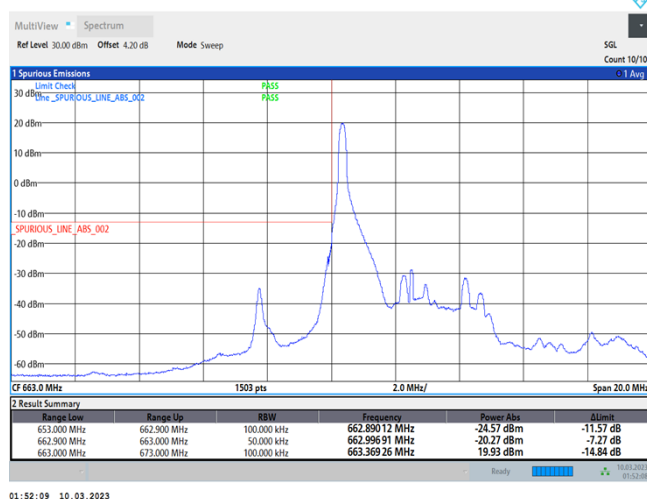
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Report No.: SEWM2311000473RG01
Rev.: 01
Page: 42 of 62

Band Edge

Test Graphs

Band71-5MHz-QPSK-133147-1RB#0



Band71-5MHz-QPSK-133147-25RB#0



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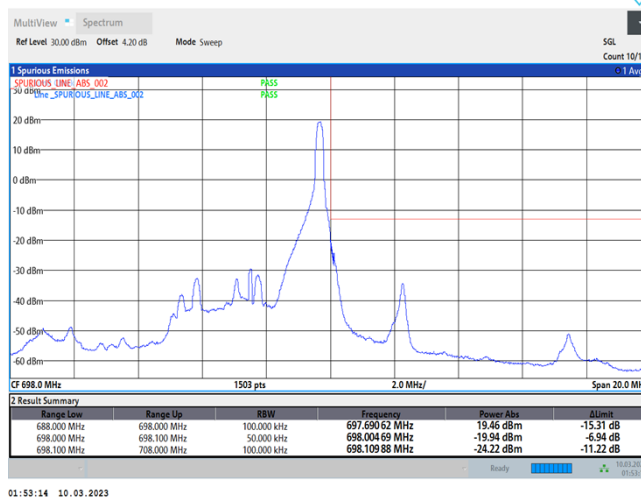
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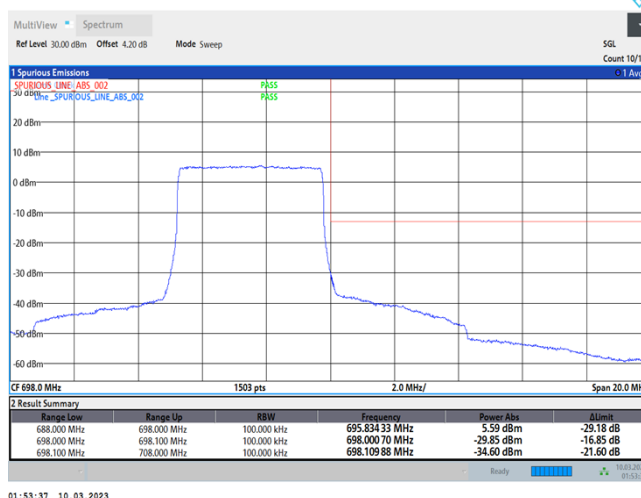
Report No.: SEWM2311000473RG01
Rev.: 01
Page: 43 of 62

Band71-5MHz-QPSK-133447-1RB#24



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Band71-5MHz-QPSK-133447-25RB#0



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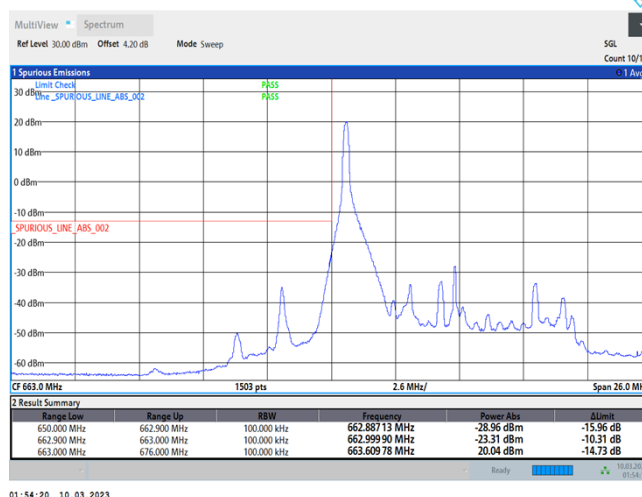
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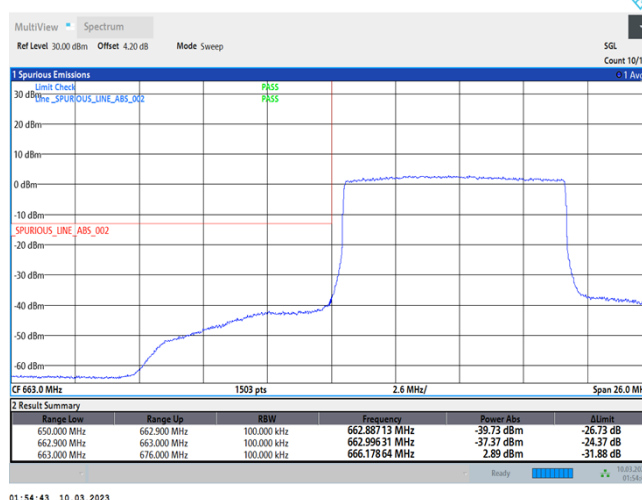
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Report No.: SEWM2311000473RG01
Rev.: 01
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Band71-10MHz-QPSK-133172-1RB#0



Band71-10MHz-QPSK-133172-50RB#0



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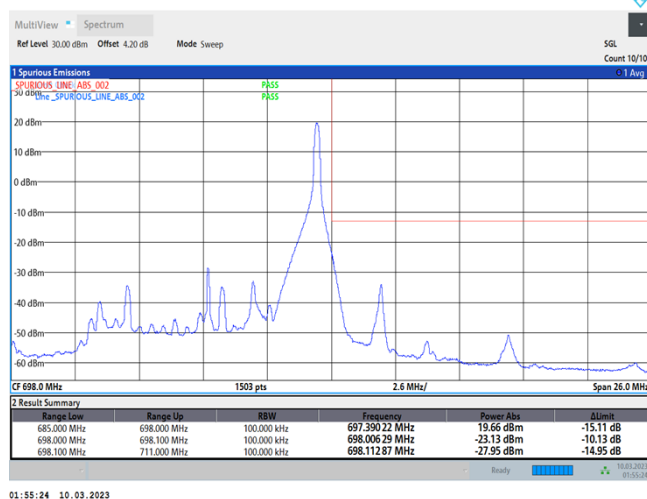
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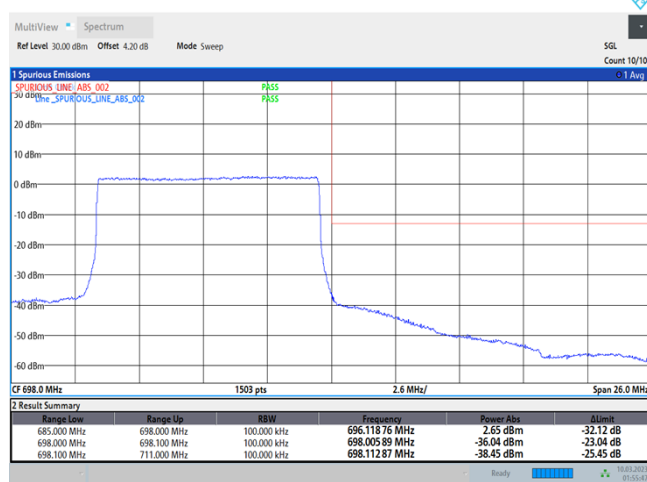
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Rev.: 01
Page: 45 of 62

Band71-10MHz-QPSK-133422-1RB#49



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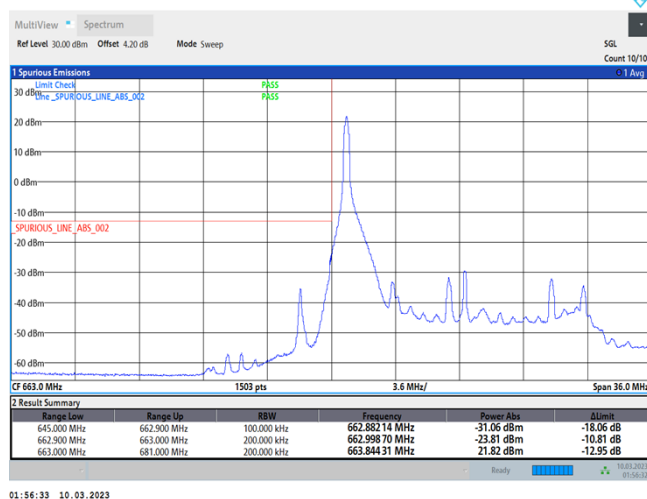
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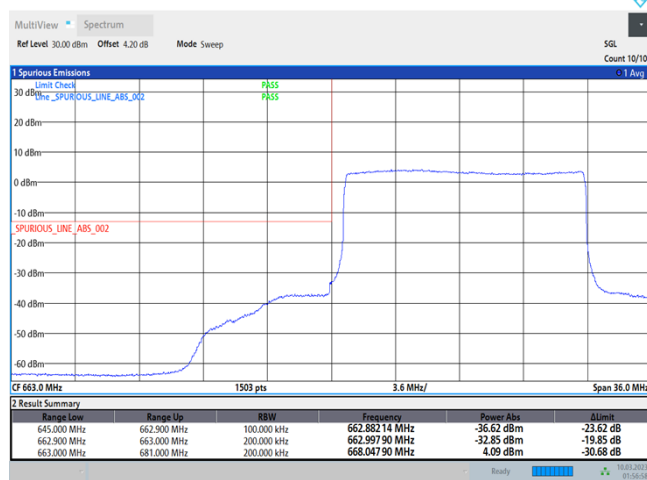
Report No.: SEWM2311000473RG01
Rev.: 01
Page: 46 of 62

Band71-15MHz-QPSK-133197-1RB#0



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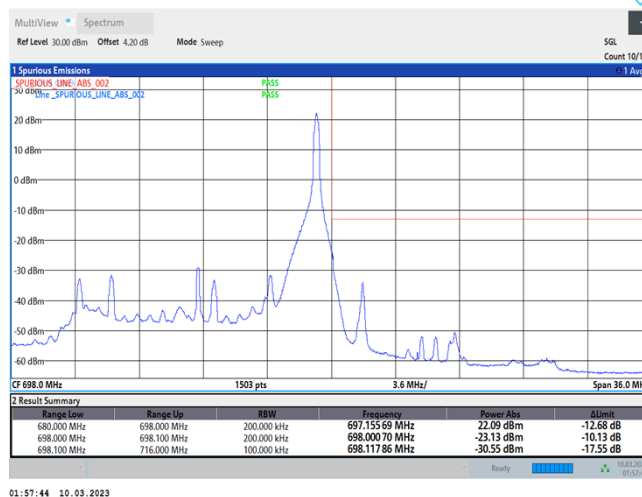
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Report No.: SEWM2311000473RG01

Rev.: 01

Page: 47 of 62

Band71-15MHz-QPSK-133397-1RB#74



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Band71-15MHz-QPSK-133397-75RB#0



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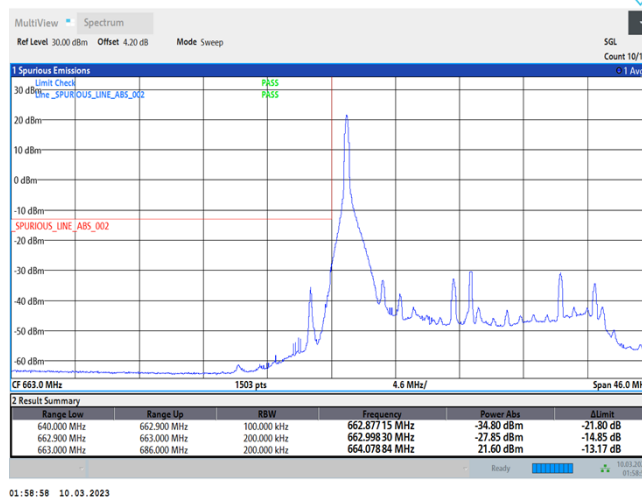
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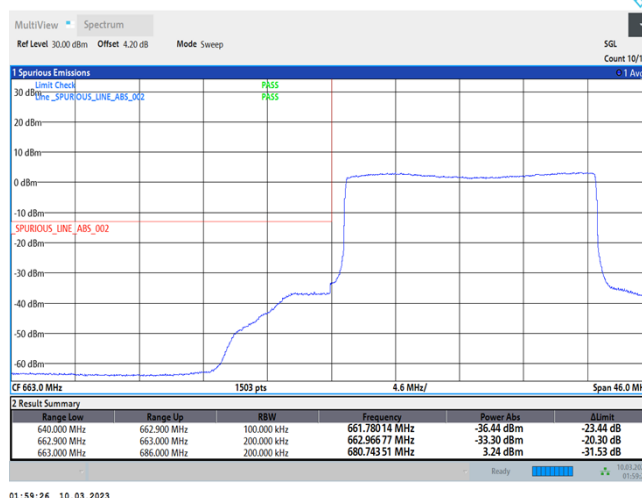
Page: 48 of 62

Band71-20MHz-QPSK-133222-1RB#0



01:58:58 10.03.2023

Band71-20MHz-QPSK-133222-100RB#0



01:59:26 10.03.2023



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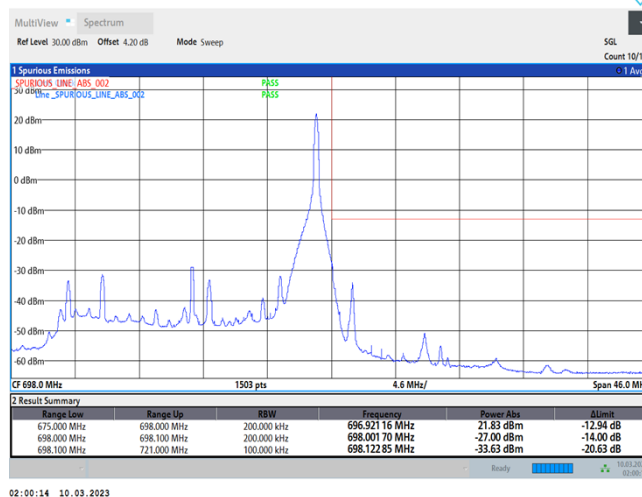
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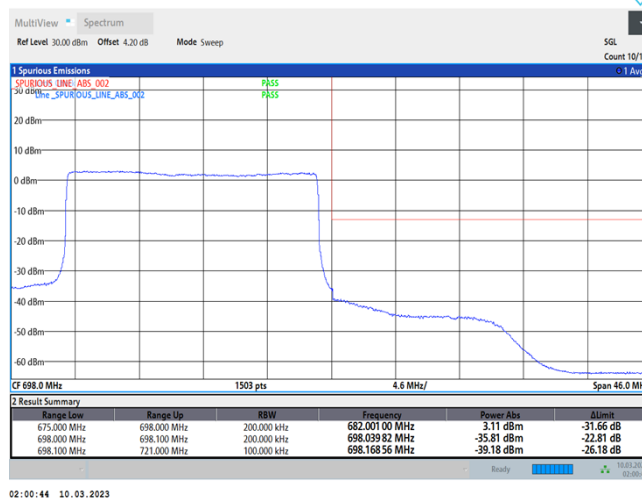
Rev.: 01

Page: 49 of 62

Band71-20MHz-QPSK-133372-1RB#99



Band71-20MHz-QPSK-133372-100RB#0



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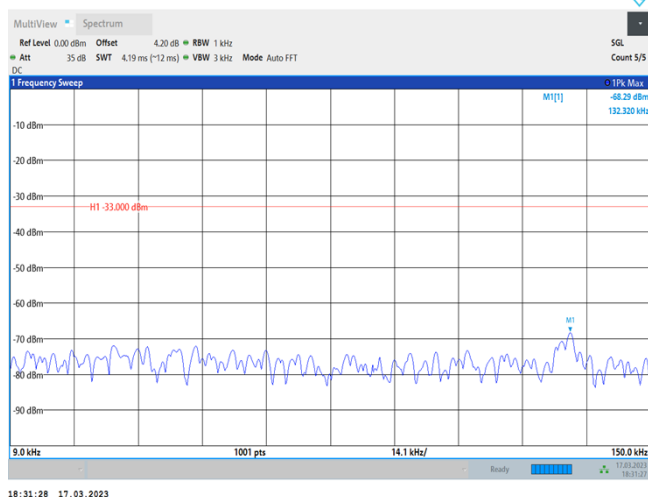
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Report No.: SEWM2311000473RG01
Rev.: 01
Page: 50 of 62

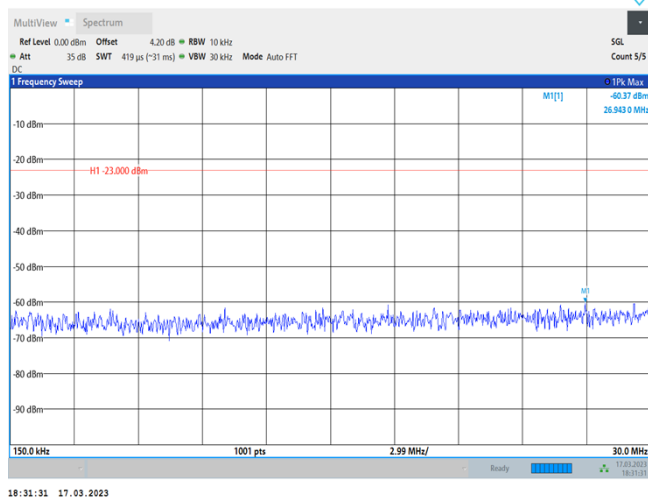
Conducted Spurious Emission

Test Graphs

Band71-20MHz-QPSK-133222-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133222-1RB#0-Range2:0.15~30MHz



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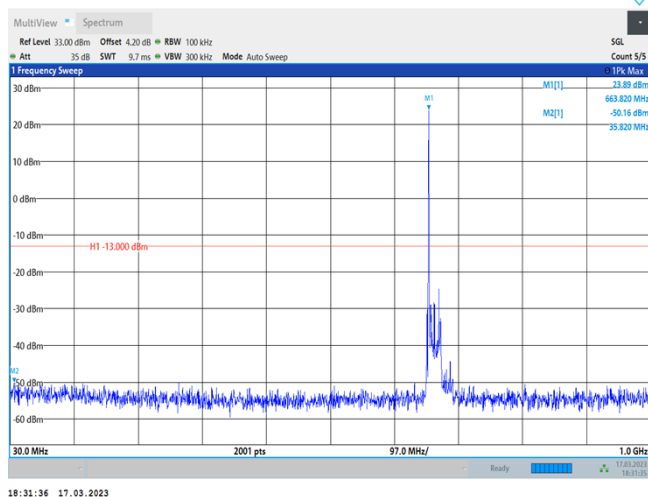
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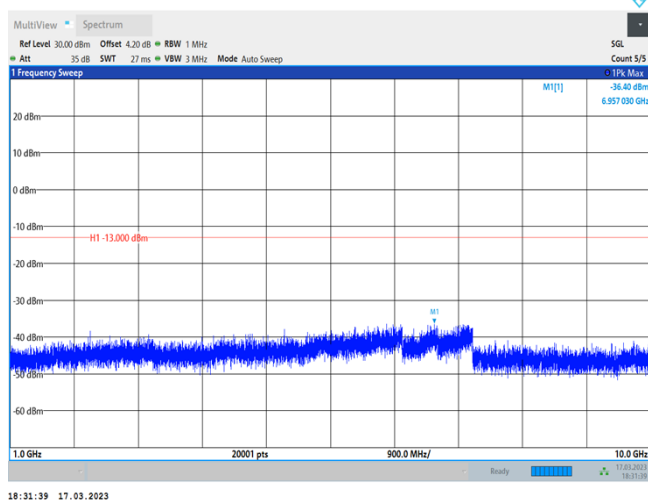
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Report No.: SEWM2311000473RG01
 Rev.: 01
 Page: 51 of 62

Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133222-1RB#0-Range4:1000~10000MHz



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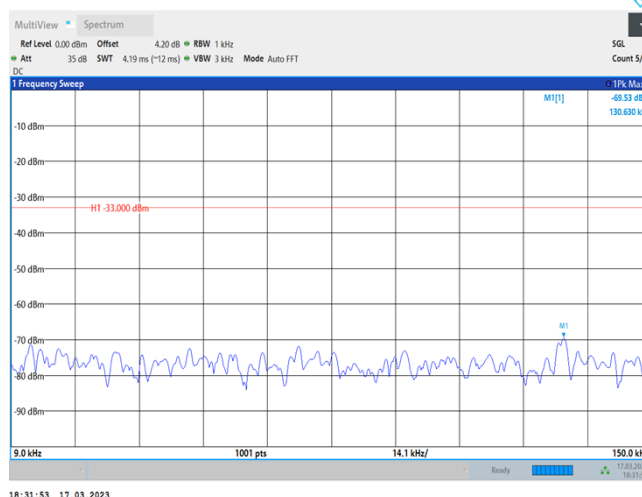
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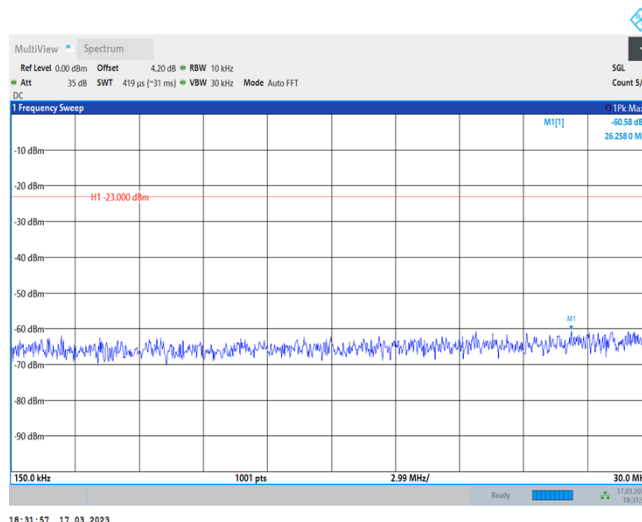
Rev.: 01

Page: 52 of 62

Band71-20MHz-QPSK-133322-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133322-1RB#0-Range2:0.15~30MHz



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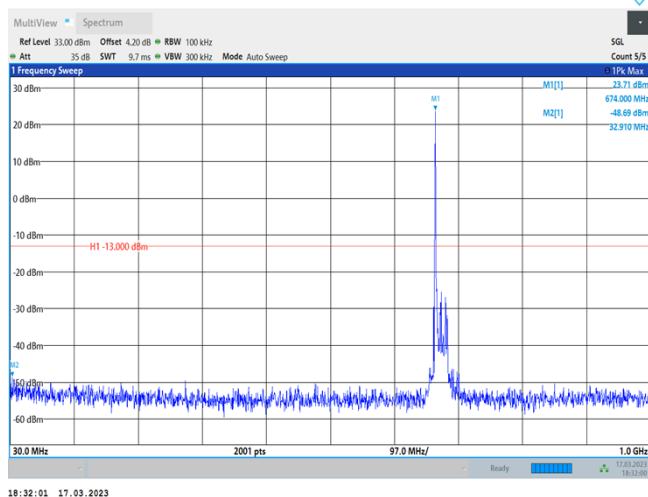
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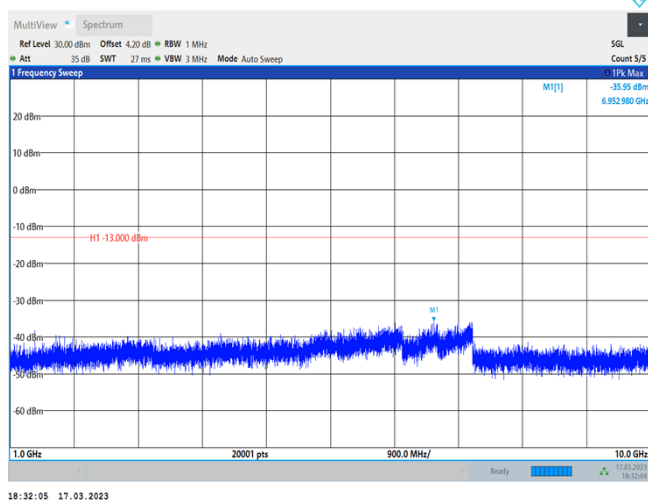
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Page: 53 of 62

Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133322-1RB#0-Range4:1000~10000MHz



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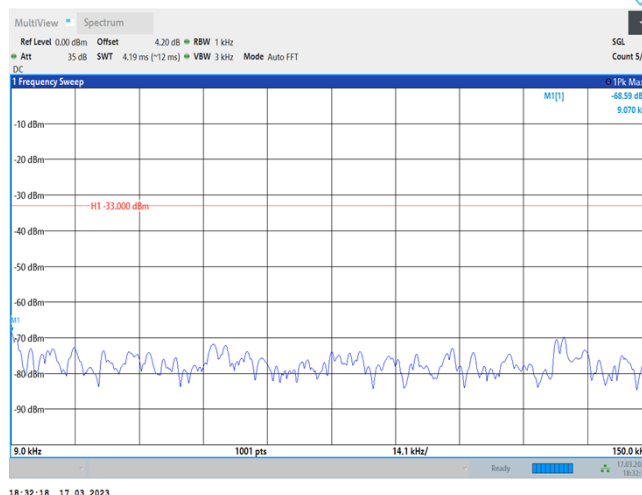
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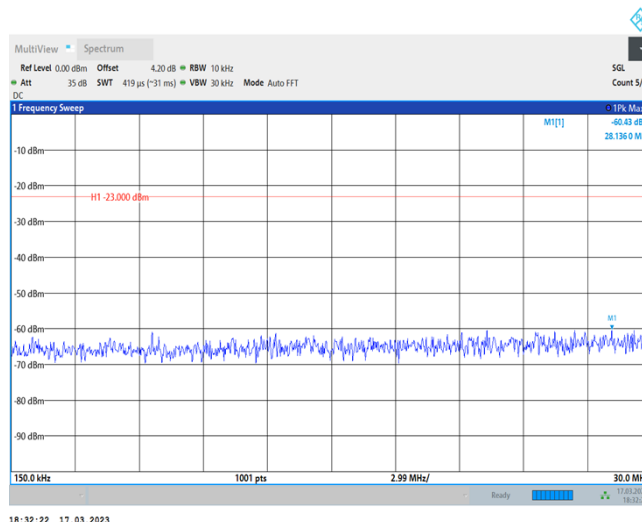
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Rev.: 01
Page: 54 of 62

Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



Band71-20MHz-QPSK-133372-1RB#0-Range2:0.15~30MHz



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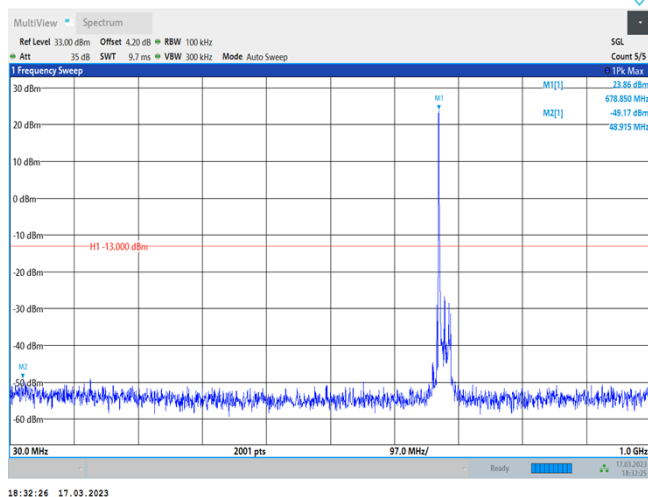
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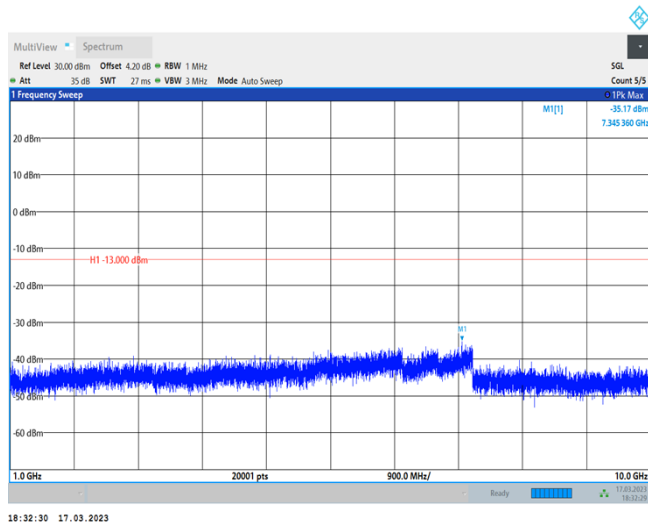
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Page: 55 of 62

Band71-20MHz-QPSK-133372-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133372-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 71_20MHz__ 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	1328.1800	63.72	-48.09	25.61	-54.02	-13.00	41.02	153	194	Horizontal
2	1992.2700	44.71	-47.91	26.59	-71.87	-13.00	58.87	234	129	Horizontal
3	2656.3600	47.37	-47.00	28.21	-66.68	-13.00	53.68	178	42	Horizontal
4	3320.4500	44.58	-46.65	29.53	-67.80	-13.00	54.80	246	0	Horizontal
5	3984.5400	43.41	-46.20	30.76	-67.29	-13.00	54.29	198	24	Horizontal
6	4648.6300	42.03	-45.79	31.86	-67.17	-13.00	54.17	207	214	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	1328.1800	60.50	-48.09	25.61	-57.24	-13.00	44.24	214	360	Vertical
2	1992.2700	47.25	-47.91	26.59	-69.33	-13.00	56.33	291	254	Vertical
3	2656.3600	52.41	-47.00	28.21	-61.64	-13.00	48.64	167	170	Vertical
4	3320.4500	43.84	-46.65	29.53	-68.54	-13.00	55.54	218	212	Vertical
5	3984.5400	43.47	-46.20	30.76	-67.23	-13.00	54.23	206	360	Vertical
6	4648.6300	42.09	-45.79	31.86	-67.11	-13.00	54.11	139	189	Vertical



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 Rev.: 01
 Page: 57 of 62

Test Band = LTE Band 71_20MHz__ 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	1348.1800	55.19	-48.07	25.61	-62.53	-13.00	49.53	175	9	Horizontal
2	2022.2700	44.43	-47.86	26.72	-71.97	-13.00	58.97	253	169	Horizontal
3	2696.3600	45.69	-47.05	28.28	-68.33	-13.00	55.33	199	190	Horizontal
4	3370.4500	43.62	-46.58	29.47	-68.75	-13.00	55.75	135	84	Horizontal
5	4044.5400	43.20	-46.07	30.87	-67.26	-13.00	54.26	229	169	Horizontal
6	4718.6300	42.59	-45.77	32.07	-66.37	-13.00	53.37	165	9	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	1348.1800	54.65	-48.07	25.61	-63.07	-13.00	50.07	249	274	Vertical
2	2031.2	50.94	-47.84	26.75	-65.41	-13.00	52.41	178	274	Vertical
3	2696.3600	48.66	-47.05	28.28	-65.36	-13.00	52.36	206	169	Vertical
4	3370.4500	43.05	-46.58	29.47	-69.32	-13.00	56.32	224	358	Vertical
5	4044.5400	42.64	-46.07	30.87	-67.82	-13.00	54.82	186	23	Vertical
6	4718.6300	42.95	-45.77	32.07	-66.01	-13.00	53.01	276	0	Vertical



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Rev.: 01

Page: 58 of 62

Test Band = LTE Band 71_20MHz__ 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	1358.1800	60.39	-48.05	25.61	-57.31	-13.00	44.31	297	190	Horizontal
2	2037.2700	46.41	-47.83	26.77	-69.91	-13.00	56.91	184	127	Horizontal
3	2716.3600	46.45	-47.03	28.32	-67.52	-13.00	54.52	257	42	Horizontal
4	3395.4500	44.17	-46.55	29.44	-68.20	-13.00	55.20	153	170	Horizontal
5	4074.5400	42.23	-45.98	30.91	-68.09	-13.00	55.09	264	276	Horizontal
6	4753.6300	42.40	-45.71	32.18	-66.39	-13.00	53.39	172	276	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	1358	59.47	-48.05	25.61	-58.23	-13.00	45.23	247	281	Vertical
2	2031.2	50.85	-47.84	26.75	-65.50	-13.00	52.50	290	281	Vertical
3	2716.3600	51.18	-47.03	28.32	-62.79	-13.00	49.79	251	236	Vertical
4	3395.4500	43.49	-46.55	29.44	-68.88	-13.00	55.88	197	318	Vertical
5	4074.5400	43.23	-45.98	30.91	-67.09	-13.00	54.09	208	129	Vertical
6	4753.6300	42.70	-45.71	32.18	-66.09	-13.00	53.09	177	190	Vertical



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Report No.: SEWM2311000473RG01

Rev.: 01

Page: 59 of 62

Test on the worst case:

Test Band = LTE Band 71_20MHz__ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1288.5	50.16	-50.14	24.52	-70.72	-13.00	57.72	Horizontal
2	1747	46.37	-49.78	25.69	-72.98	-13.00	59.98	Horizontal
3	2851	45.59	-48.73	28.14	-70.26	-13.00	57.26	Horizontal
4	4137	44.67	-48.30	29.65	-69.24	-13.00	56.24	Horizontal
5	5410	43.56	-47.44	32.48	-66.65	-13.00	53.65	Horizontal
6	7155.5	42.12	-46.09	35.97	-63.26	-13.00	50.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1288	47.13	-50.14	24.52	-73.75	-13.00	60.75	Vertical
2	1894.5	45.58	-49.75	26.28	-73.16	-13.00	60.16	Vertical
3	3066.5	45.06	-48.71	28.53	-70.38	-13.00	57.38	Vertical
4	4421	44.91	-48.08	30.16	-68.27	-13.00	55.27	Vertical
5	6778	43.65	-46.89	35.11	-63.39	-13.00	50.39	Vertical
6	7679	42.23	-45.15	36.59	-61.60	-13.00	48.60	Vertical



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Report No.: SEWM2311000473RG01
 Rev.: 01
 Page: 60 of 62

Test Band = LTE Band 71_20MHz__ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1288.5	49.73	-50.14	24.52	-71.15	-13.00	58.15	Horizontal
2	1712.5	46.11	-49.74	25.55	-73.34	-13.00	60.34	Horizontal
3	2335	45.81	-49.25	27.10	-71.60	-13.00	58.60	Horizontal
4	3593	44.66	-48.48	28.83	-70.25	-13.00	57.25	Horizontal
5	4987.5	45.67	-47.99	31.47	-66.11	-13.00	53.11	Horizontal
6	7665.5	42.25	-45.07	36.60	-61.48	-13.00	48.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1288	47.44	-50.14	24.52	-73.44	-13.00	60.44	Vertical
2	1748	46.24	-49.78	25.69	-73.11	-13.00	60.11	Vertical
3	2559.5	45.26	-49.06	27.44	-71.62	-13.00	58.62	Vertical
4	3499.5	44.76	-48.43	28.70	-70.23	-13.00	57.23	Vertical
5	5055	43.73	-47.94	31.63	-67.84	-13.00	54.84	Vertical
6	7312.5	42.92	-46.08	36.35	-62.07	-13.00	49.07	Vertical



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Report No.: SEWM2311000473RG01

Rev.: 01

Page: 61 of 62

Test Band = LTE Band 71_20MHz__ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1284	50.16	-50.15	24.53	-70.71	-13.00	57.71	Horizontal
2	1696.5	53.88	-49.73	25.49	-65.62	-13.00	52.62	Horizontal
3	2748.5	45.13	-48.84	27.90	-71.08	-13.00	58.08	Horizontal
4	3553	44.64	-48.46	28.77	-70.30	-13.00	57.30	Horizontal
5	4620	44.65	-48.05	30.59	-68.07	-13.00	55.07	Horizontal
6	7677	42.47	-45.14	36.59	-61.34	-13.00	48.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1320	47.56	-50.11	24.46	-73.35	-13.00	60.35	Vertical
2	1963	45.69	-49.70	26.55	-72.72	-13.00	59.72	Vertical
3	2402.5	46.03	-49.47	27.18	-71.51	-13.00	58.51	Vertical
4	3416	44.96	-48.65	28.67	-70.28	-13.00	57.28	Vertical
5	4645	44.31	-48.06	30.65	-68.36	-13.00	55.36	Vertical
6	7315	43.08	-46.07	36.36	-61.90	-13.00	48.90	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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Rev.: 01

Page: 62 of 62

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-0.10	-0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-5.40	-0.007906	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-8.30	-0.012152	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-5.70	-0.008346	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-0.50	-0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	0.50	0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	0.60	0.000878	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-5.00	-0.007321	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.30	0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-3.10	-0.004539	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-3.30	-0.004832	PASS

---End of Attachment---



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