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Appendix B.14

LTE Band 42(3450-3550)



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP	Limit	Verdict
Band42	5MHz	QPSK	42115	1RB#0	23.55	21.55	30.00	PASS
Band42	5MHz	16QAM	42115	1RB#0	22.86	20.86	30.00	PASS
Band42	5MHz	QPSK	42115	1RB#12	23.44	21.44	30.00	PASS
Band42	5MHz	16QAM	42115	1RB#12	22.72	20.72	30.00	PASS
Band42	5MHz	QPSK	42115	1RB#24	23.40	21.40	30.00	PASS
Band42	5MHz	16QAM	42115	1RB#24	22.78	20.78	30.00	PASS
Band42	5MHz	QPSK	42115	25RB#0	22.63	20.63	30.00	PASS
Band42	5MHz	16QAM	42115	25RB#0	21.56	19.56	30.00	PASS
Band42	5MHz	QPSK	42590	1RB#0	23.37	21.37	30.00	PASS
Band42	5MHz	16QAM	42590	1RB#0	22.63	20.63	30.00	PASS
Band42	5MHz	QPSK	42590	1RB#12	23.50	21.50	30.00	PASS
Band42	5MHz	16QAM	42590	1RB#12	22.63	20.63	30.00	PASS
Band42	5MHz	QPSK	42590	1RB#24	23.37	21.37	30.00	PASS
Band42	5MHz	16QAM	42590	1RB#24	22.62	20.62	30.00	PASS
Band42	5MHz	QPSK	42590	25RB#0	22.44	20.44	30.00	PASS
Band42	5MHz	16QAM	42590	25RB#0	21.62	19.62	30.00	PASS
Band42	5MHz	QPSK	43065	1RB#0	23.32	21.32	30.00	PASS
Band42	5MHz	16QAM	43065	1RB#0	22.45	20.45	30.00	PASS
Band42	5MHz	QPSK	43065	1RB#12	23.24	21.24	30.00	PASS
Band42	5MHz	16QAM	43065	1RB#12	22.43	20.43	30.00	PASS
Band42	5MHz	QPSK	43065	1RB#24	23.24	21.24	30.00	PASS
Band42	5MHz	16QAM	43065	1RB#24	22.50	20.50	30.00	PASS
Band42	5MHz	QPSK	43065	25RB#0	22.47	20.47	30.00	PASS
Band42	5MHz	16QAM	43065	25RB#0	21.30	19.30	30.00	PASS
Band42	10MHz	QPSK	42140	1RB#0	23.56	21.56	30.00	PASS
Band42	10MHz	16QAM	42140	1RB#0	22.97	20.97	30.00	PASS
Band42	10MHz	QPSK	42140	1RB#24	23.60	21.60	30.00	PASS
Band42	10MHz	16QAM	42140	1RB#24	22.83	20.83	30.00	PASS
Band42	10MHz	QPSK	42140	1RB#49	23.43	21.43	30.00	PASS
Band42	10MHz	16QAM	42140	1RB#49	22.68	20.68	30.00	PASS
Band42	10MHz	QPSK	42140	50RB#0	22.62	20.62	30.00	PASS



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Band42	10MHz	16QAM	42140	50RB#0	21.67	19.67	30.00	PASS
Band42	10MHz	QPSK	42590	1RB#0	23.31	21.31	30.00	PASS
Band42	10MHz	16QAM	42590	1RB#0	22.52	20.52	30.00	PASS
Band42	10MHz	QPSK	42590	1RB#24	23.41	21.41	30.00	PASS
Band42	10MHz	16QAM	42590	1RB#24	22.68	20.68	30.00	PASS
Band42	10MHz	QPSK	42590	1RB#49	23.41	21.41	30.00	PASS
Band42	10MHz	16QAM	42590	1RB#49	22.74	20.74	30.00	PASS
Band42	10MHz	QPSK	42590	50RB#0	22.47	20.47	30.00	PASS
Band42	10MHz	16QAM	42590	50RB#0	21.63	19.63	30.00	PASS
Band42	10MHz	QPSK	43040	1RB#0	23.36	21.36	30.00	PASS
Band42	10MHz	16QAM	43040	1RB#0	22.57	20.57	30.00	PASS
Band42	10MHz	QPSK	43040	1RB#24	23.34	21.34	30.00	PASS
Band42	10MHz	16QAM	43040	1RB#24	22.56	20.56	30.00	PASS
Band42	10MHz	QPSK	43040	1RB#49	23.29	21.29	30.00	PASS
Band42	10MHz	16QAM	43040	1RB#49	22.48	20.48	30.00	PASS
Band42	10MHz	QPSK	43040	50RB#0	22.36	20.36	30.00	PASS
Band42	10MHz	16QAM	43040	50RB#0	21.37	19.37	30.00	PASS
Band42	15MHz	QPSK	42165	1RB#0	23.61	21.61	30.00	PASS
Band42	15MHz	16QAM	42165	1RB#0	22.75	20.75	30.00	PASS
Band42	15MHz	QPSK	42165	1RB#38	23.53	21.53	30.00	PASS
Band42	15MHz	16QAM	42165	1RB#38	22.89	20.89	30.00	PASS
Band42	15MHz	QPSK	42165	1RB#74	23.39	21.39	30.00	PASS
Band42	15MHz	16QAM	42165	1RB#74	22.68	20.68	30.00	PASS
Band42	15MHz	QPSK	42165	75RB#0	22.66	20.66	30.00	PASS
Band42	15MHz	16QAM	42165	75RB#0	21.55	19.55	30.00	PASS
Band42	15MHz	QPSK	42590	1RB#0	23.44	21.44	30.00	PASS
Band42	15MHz	16QAM	42590	1RB#0	22.54	20.54	30.00	PASS
Band42	15MHz	QPSK	42590	1RB#38	23.47	21.47	30.00	PASS
Band42	15MHz	16QAM	42590	1RB#38	22.72	20.72	30.00	PASS
Band42	15MHz	QPSK	42590	1RB#74	23.44	21.44	30.00	PASS
Band42	15MHz	16QAM	42590	1RB#74	22.84	20.84	30.00	PASS
Band42	15MHz	QPSK	42590	75RB#0	22.50	20.50	30.00	PASS
Band42	15MHz	16QAM	42590	75RB#0	21.61	19.61	30.00	PASS
Band42	15MHz	QPSK	43015	1RB#0	23.45	21.45	30.00	PASS
Band42	15MHz	16QAM	43015	1RB#0	22.68	20.68	30.00	PASS
Band42	15MHz	QPSK	43015	1RB#38	23.38	21.38	30.00	PASS



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Band42	15MHz	16QAM	43015	1RB#38	22.52	20.52	30.00	PASS
Band42	15MHz	QPSK	43015	1RB#74	23.33	21.33	30.00	PASS
Band42	15MHz	16QAM	43015	1RB#74	22.63	20.63	30.00	PASS
Band42	15MHz	QPSK	43015	75RB#0	22.48	20.48	30.00	PASS
Band42	15MHz	16QAM	43015	75RB#0	21.56	19.56	30.00	PASS
Band42	20MHz	QPSK	42190	1RB#0	23.49	21.49	30.00	PASS
Band42	20MHz	16QAM	42190	1RB#0	22.77	20.77	30.00	PASS
Band42	20MHz	QPSK	42190	1RB#49	23.42	21.42	30.00	PASS
Band42	20MHz	16QAM	42190	1RB#49	22.67	20.67	30.00	PASS
Band42	20MHz	QPSK	42190	1RB#99	23.62	21.62	30.00	PASS
Band42	20MHz	16QAM	42190	1RB#99	22.90	20.90	30.00	PASS
Band42	20MHz	QPSK	42190	100RB#0	22.78	20.78	30.00	PASS
Band42	20MHz	16QAM	42190	100RB#0	21.73	19.73	30.00	PASS
Band42	20MHz	QPSK	42590	1RB#0	23.22	21.22	30.00	PASS
Band42	20MHz	16QAM	42590	1RB#0	22.60	20.60	30.00	PASS
Band42	20MHz	QPSK	42590	1RB#49	23.45	21.45	30.00	PASS
Band42	20MHz	16QAM	42590	1RB#49	22.64	20.64	30.00	PASS
Band42	20MHz	QPSK	42590	1RB#99	23.38	21.38	30.00	PASS
Band42	20MHz	16QAM	42590	1RB#99	22.80	20.80	30.00	PASS
Band42	20MHz	QPSK	42590	100RB#0	22.63	20.63	30.00	PASS
Band42	20MHz	16QAM	42590	100RB#0	21.68	19.68	30.00	PASS
Band42	20MHz	QPSK	42990	1RB#0	23.29	21.29	30.00	PASS
Band42	20MHz	16QAM	42990	1RB#0	22.76	20.76	30.00	PASS
Band42	20MHz	QPSK	42990	1RB#49	23.44	21.44	30.00	PASS
Band42	20MHz	16QAM	42990	1RB#49	22.71	20.71	30.00	PASS
Band42	20MHz	QPSK	42990	1RB#99	23.23	21.23	30.00	PASS
Band42	20MHz	16QAM	42990	1RB#99	22.66	20.66	30.00	PASS
Band42	20MHz	QPSK	42990	100RB#0	22.56	20.56	30.00	PASS
Band42	20MHz	16QAM	42990	100RB#0	21.43	19.43	30.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band42	20MHz	QPSK	42190	100RB#0	7.28	13	PASS
Band42	20MHz	16QAM	42190	100RB#0	8.18	13	PASS
Band42	20MHz	QPSK	42590	100RB#0	7.18	13	PASS
Band42	20MHz	16QAM	42590	100RB#0	8.06	13	PASS
Band42	20MHz	QPSK	42990	100RB#0	7.34	13	PASS
Band42	20MHz	16QAM	42990	100RB#0	7.94	13	PASS



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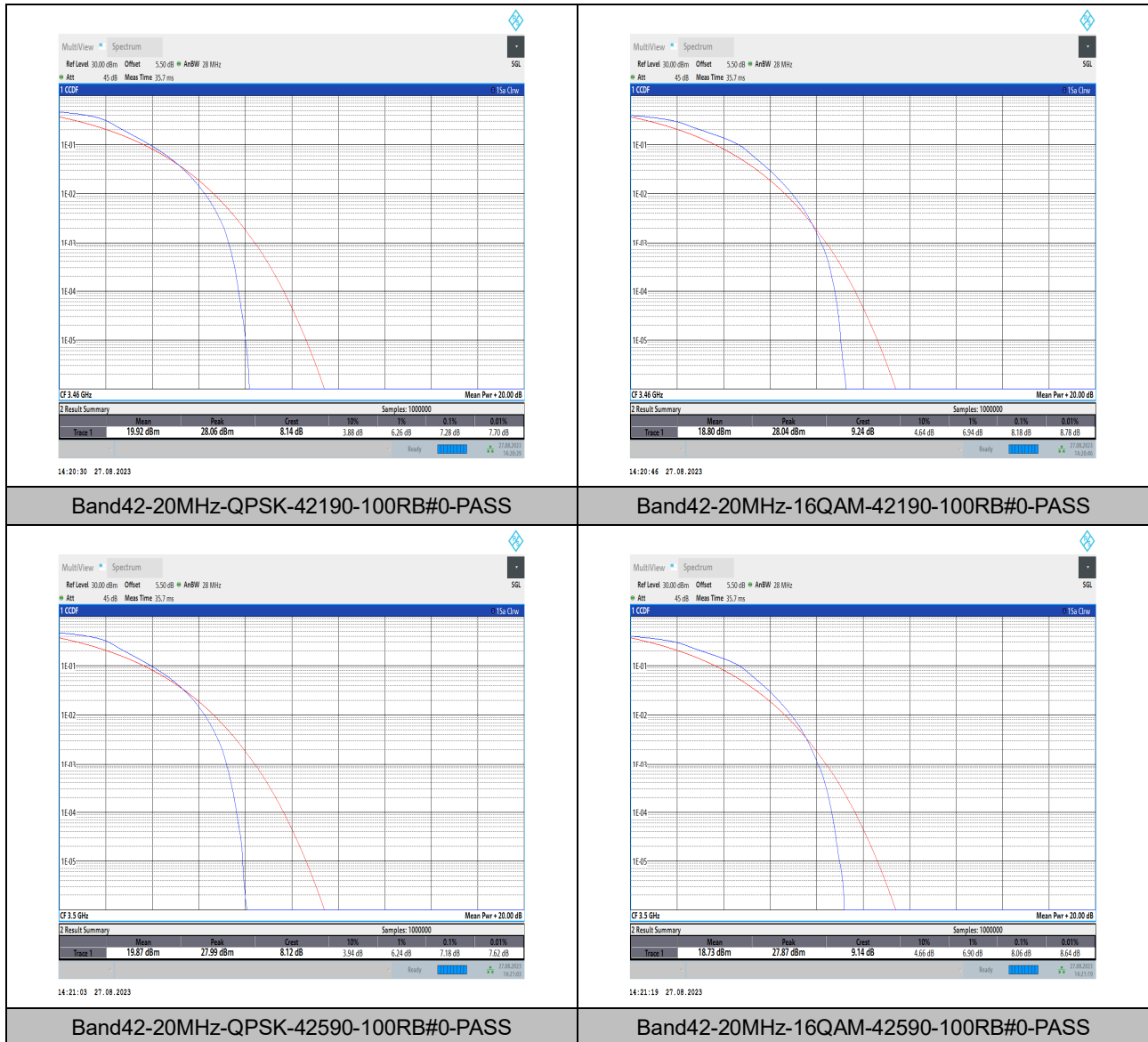
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Test Graphs



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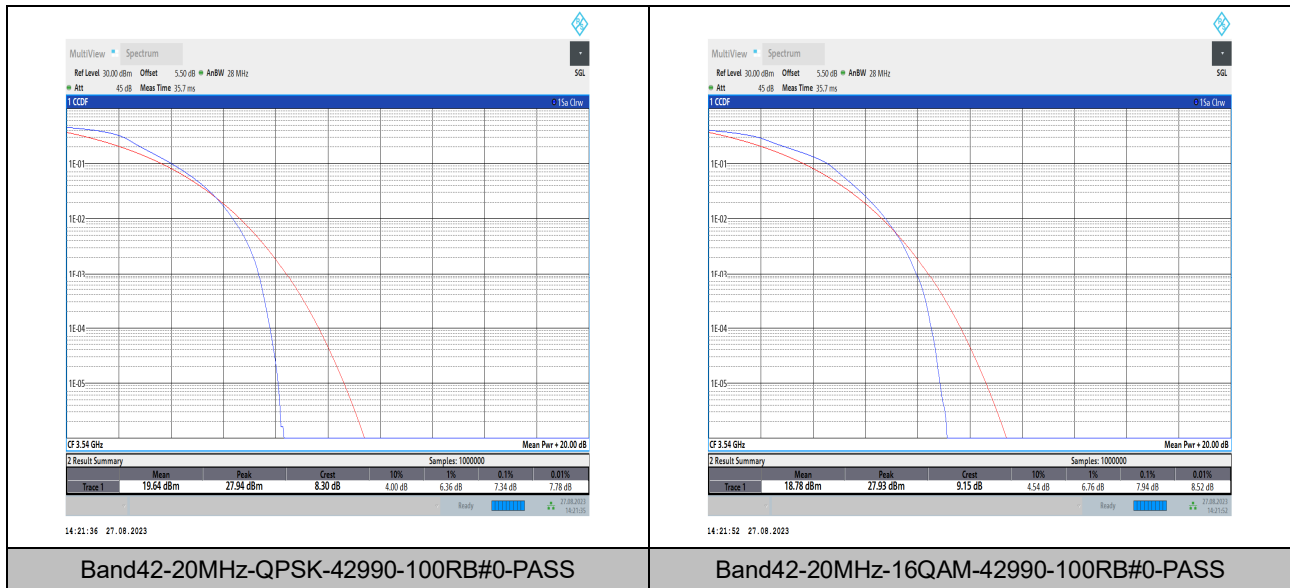
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band42	5MHz	QPSK	42590	25RB#0	4.458	4.91	PASS
Band42	5MHz	16QAM	42590	25RB#0	4.467	4.85	PASS
Band42	10MHz	QPSK	42590	50RB#0	8.951	9.60	PASS
Band42	10MHz	16QAM	42590	50RB#0	8.954	9.50	PASS
Band42	15MHz	QPSK	42590	75RB#0	13.436	14.40	PASS
Band42	15MHz	16QAM	42590	75RB#0	13.373	14.30	PASS
Band42	20MHz	QPSK	42590	100RB#0	17.927	19.33	PASS
Band42	20MHz	16QAM	42590	100RB#0	17.940	19.47	PASS



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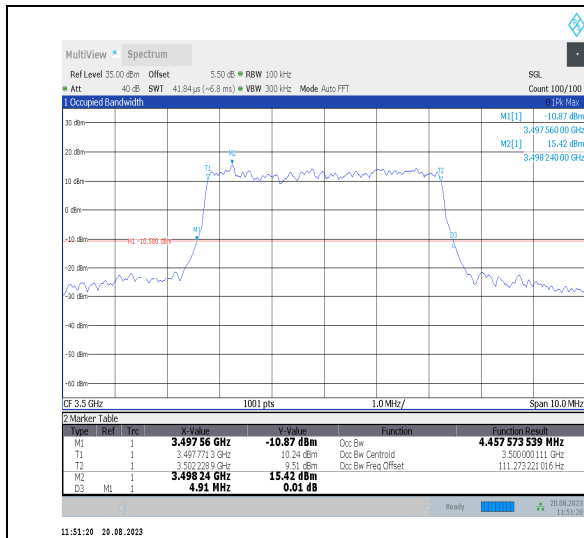
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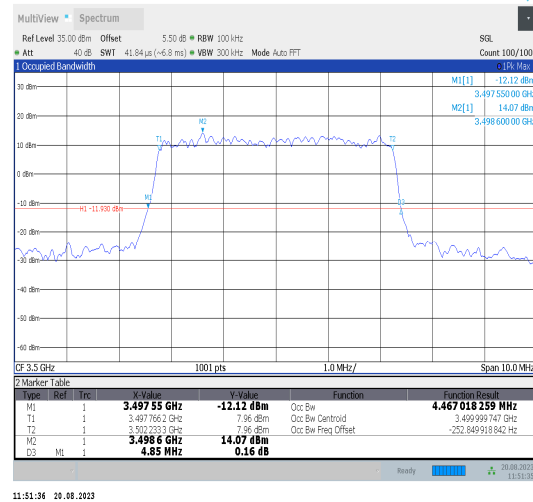
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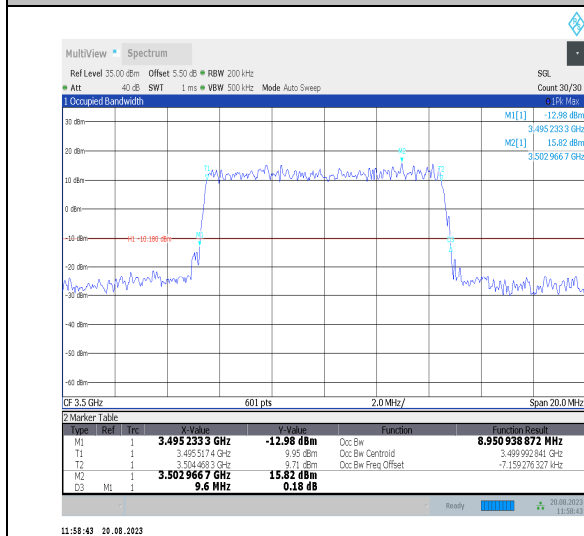
Test Graphs



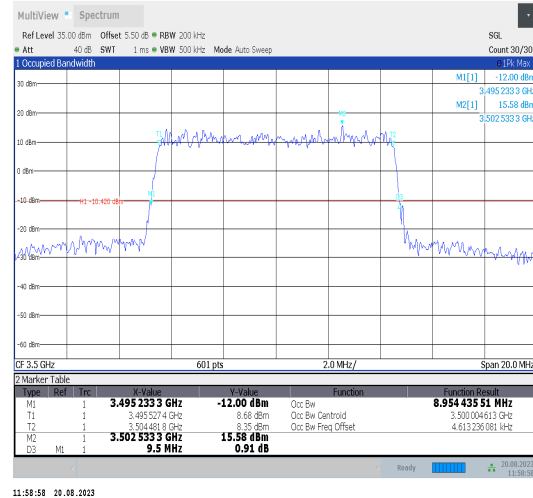
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Band42-10MHz-16QAM-42590-50RB#0-PASS



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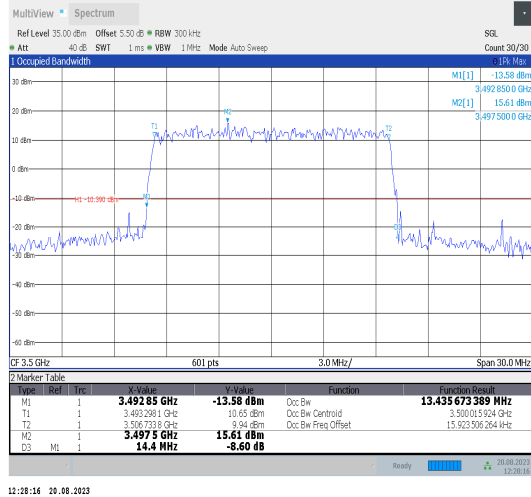
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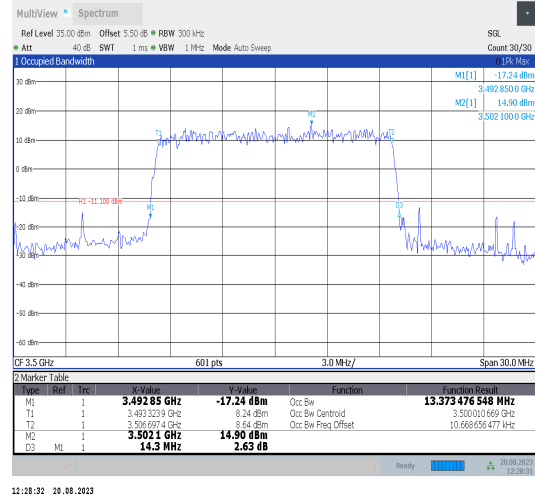
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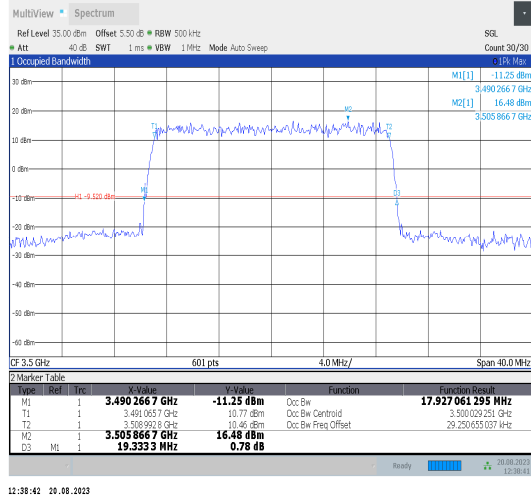
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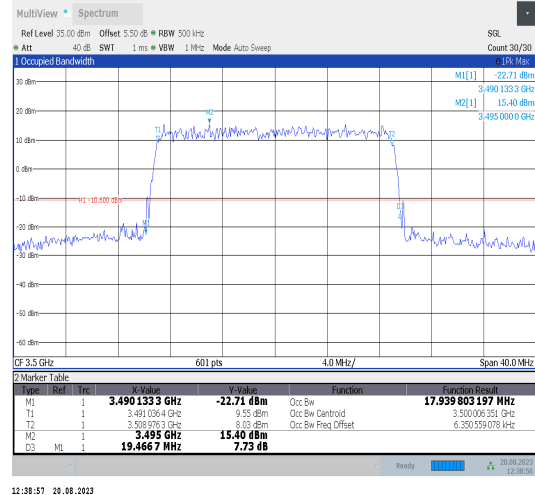
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Band42-20MHz-16QAM-42590-100RB#0-PASS



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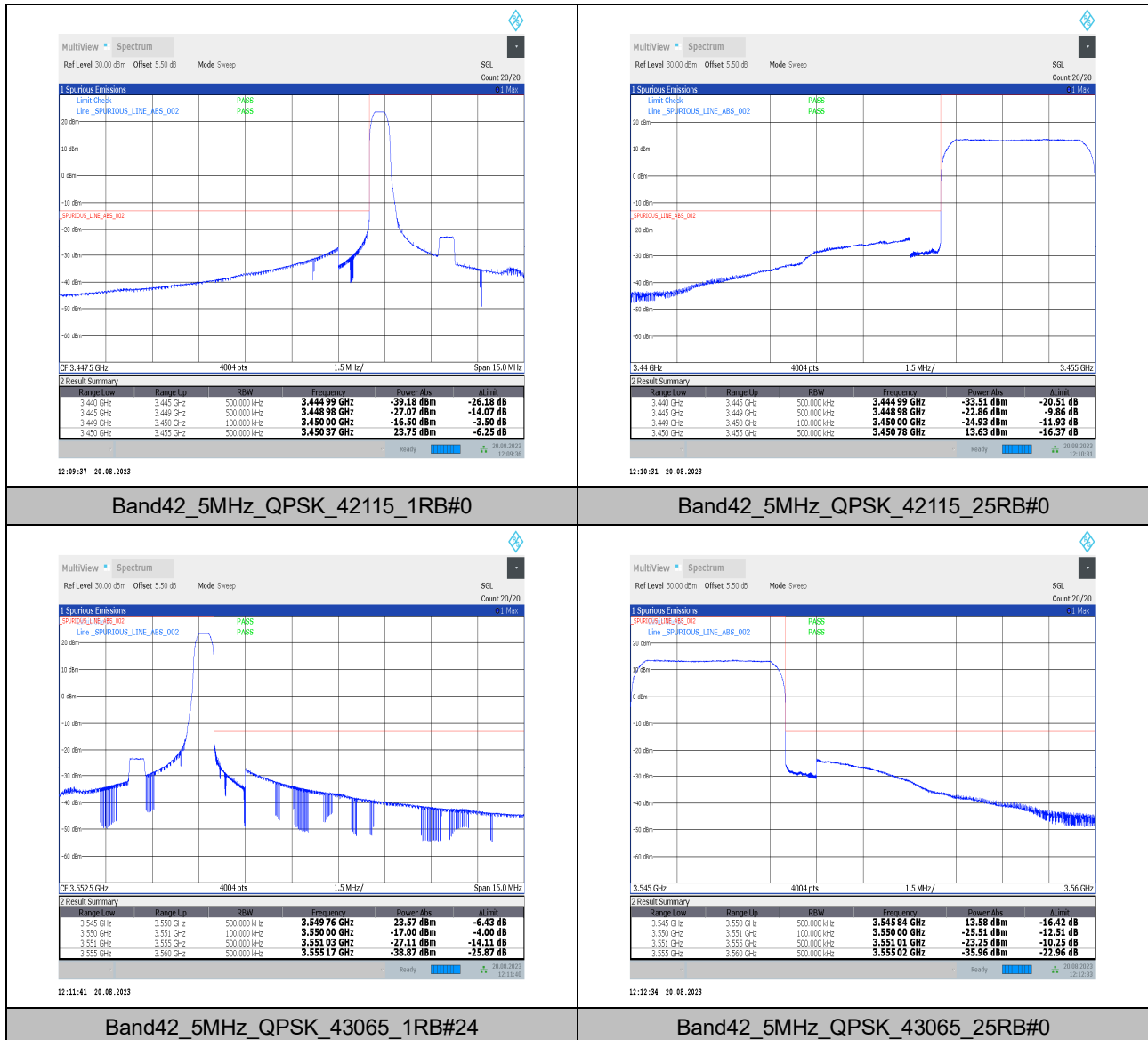
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Band Edge

Test Graphs



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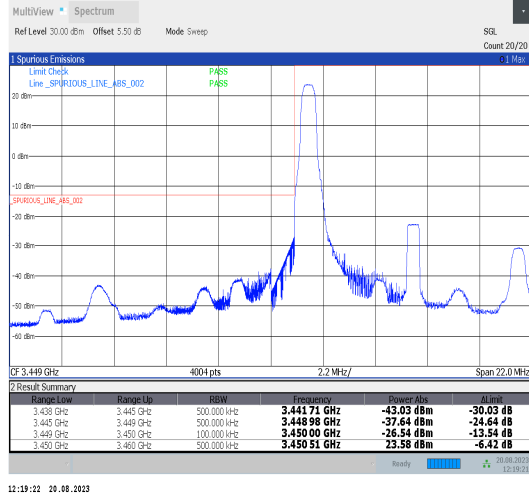
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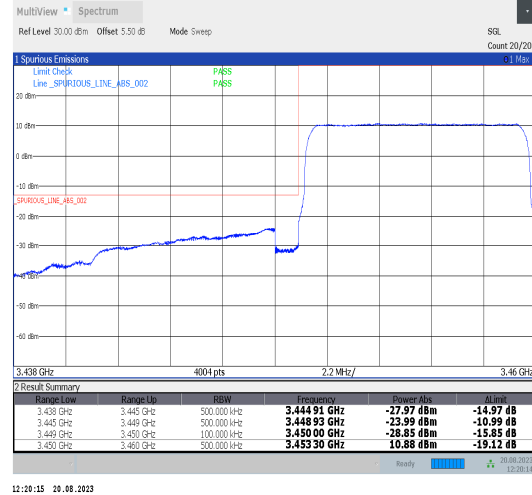
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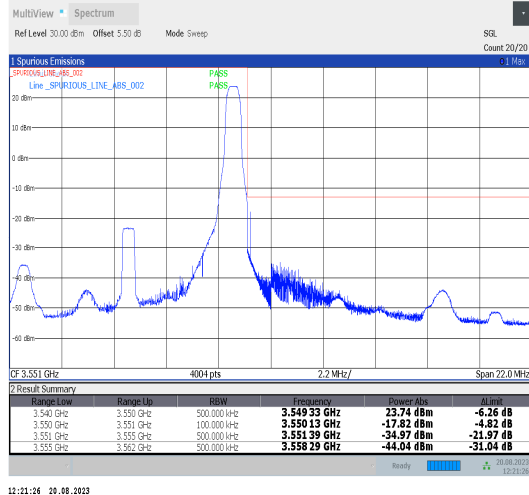
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Band42_10MHz_QPSK_42140_1RB#0



Band42_10MHz_QPSK_42140_50RB#0



Band42_10MHz_QPSK_43040_1RB#49



Band42_10MHz_QPSK_43040_50RB#0



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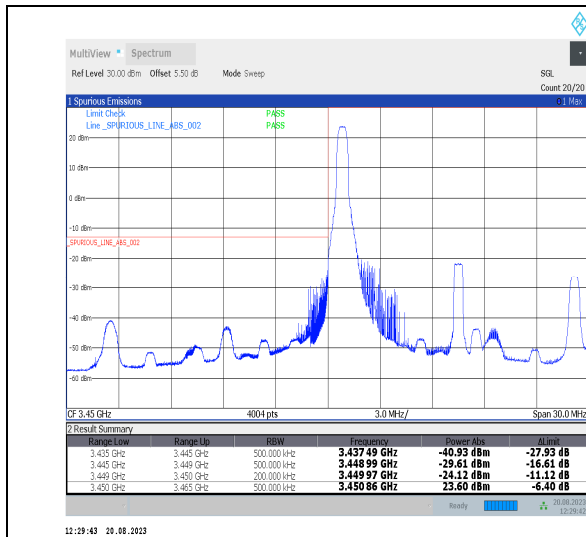
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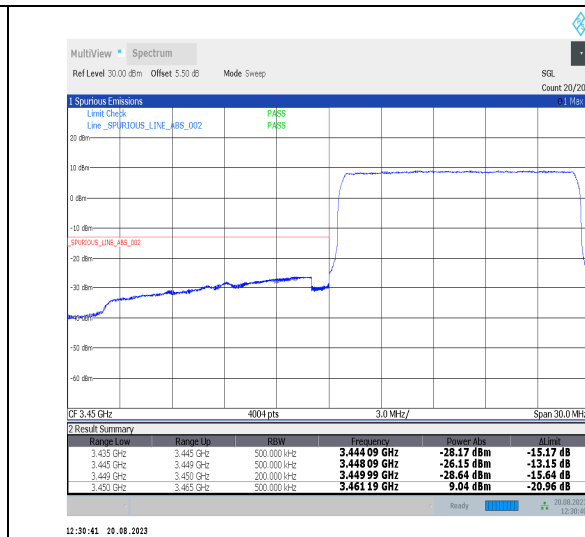
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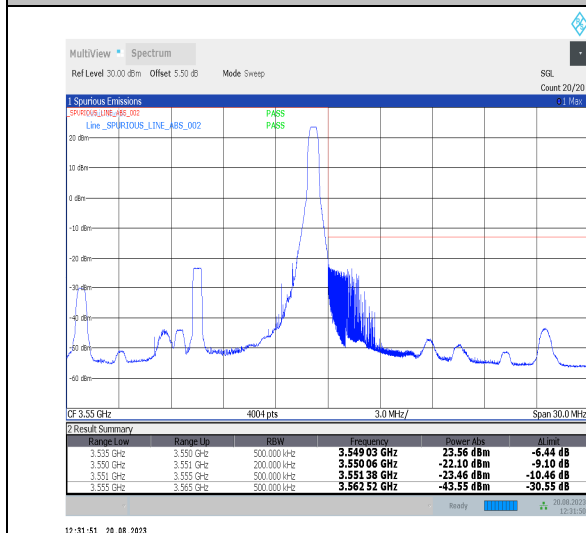
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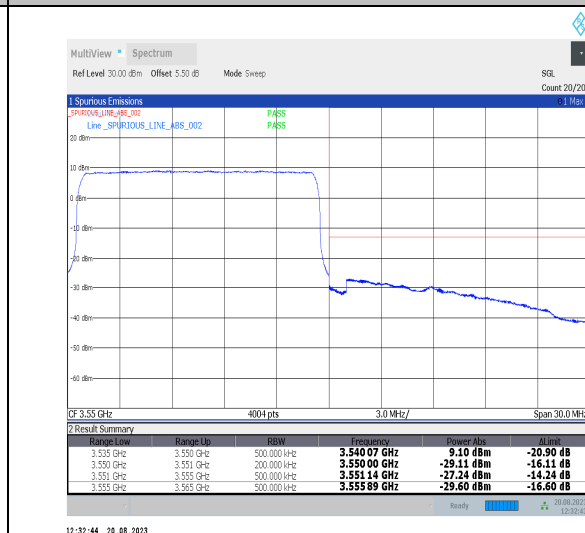
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Band42_15MHz_QPSK_43015_75RB#0



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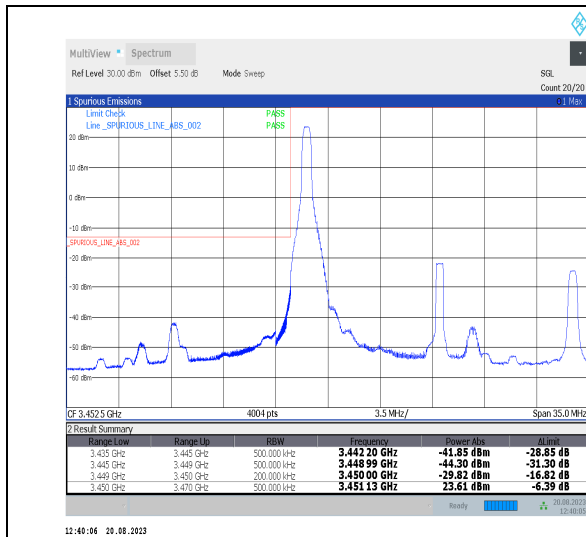
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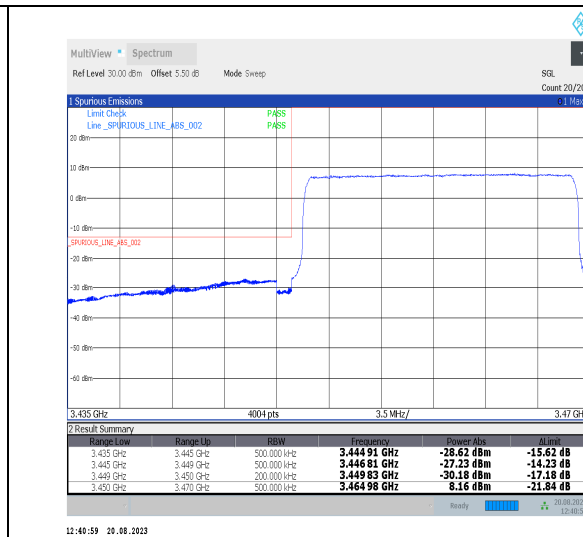
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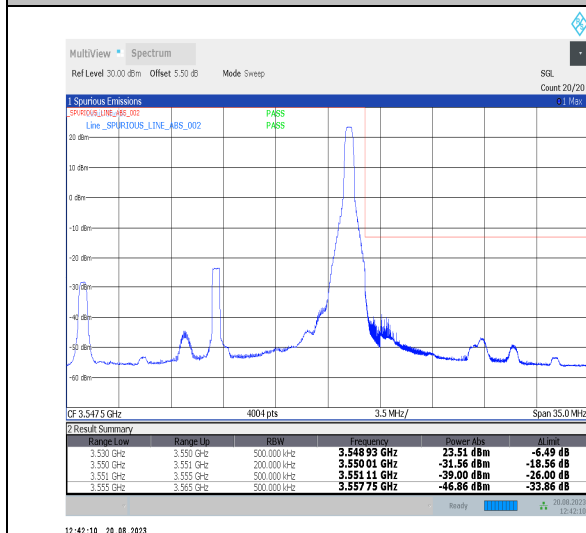
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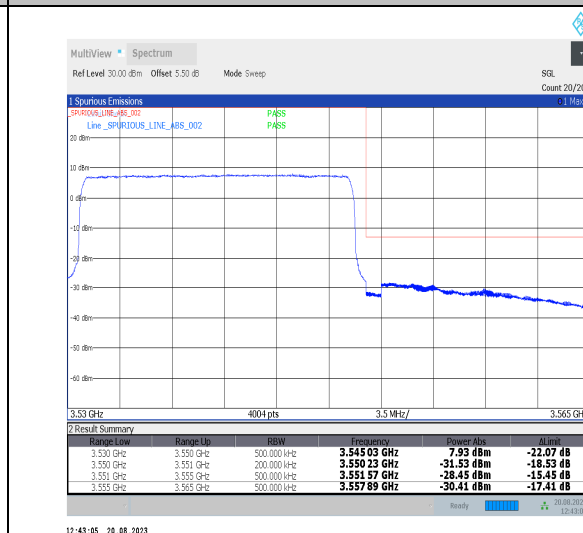
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Band42_20MHz_QPSK_42990_100RB#0



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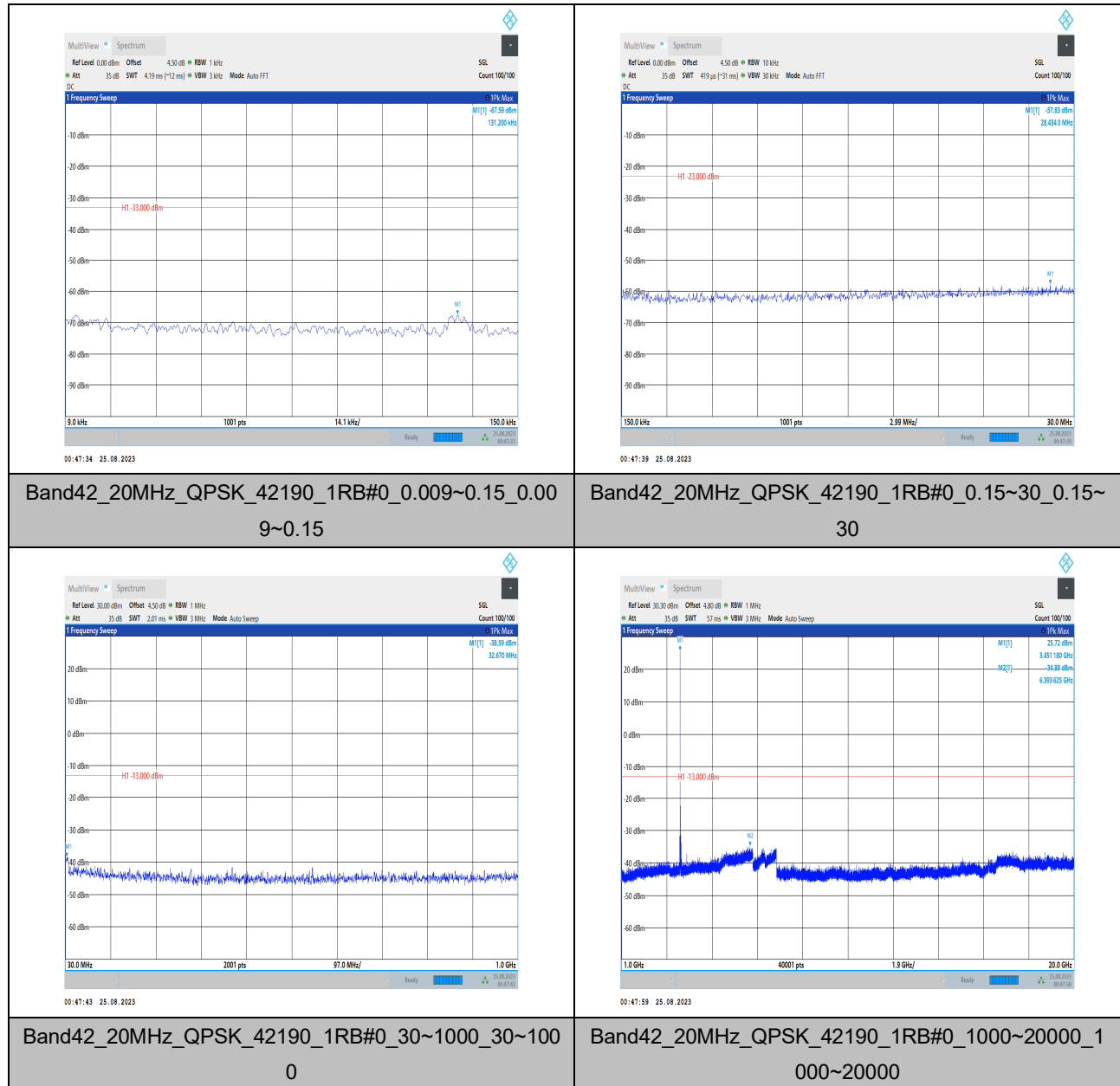
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Conducted Spurious Emission

Test Graphs



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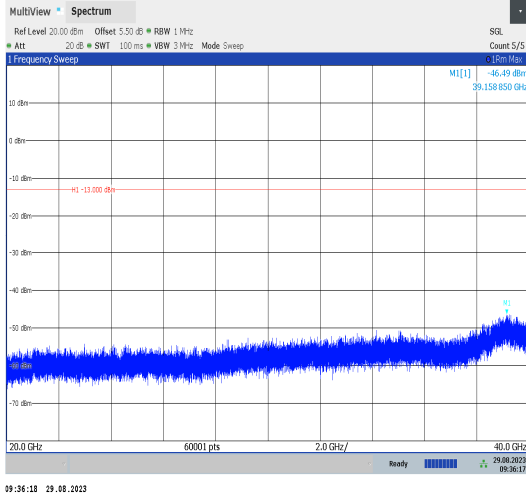
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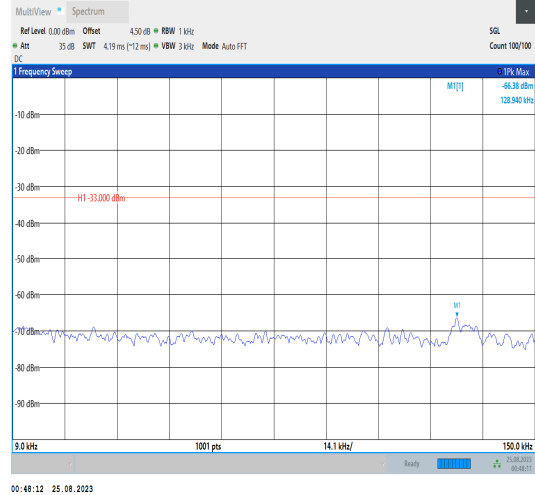
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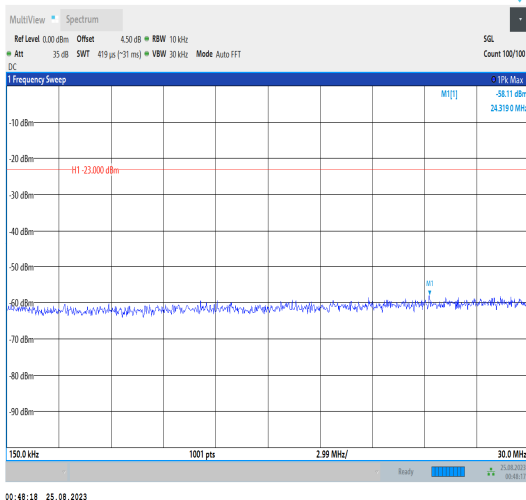
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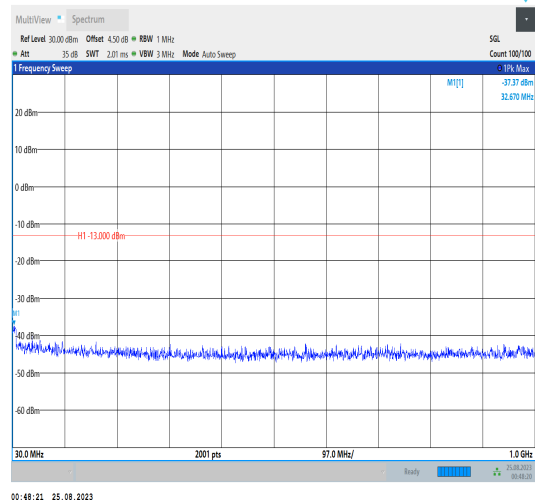
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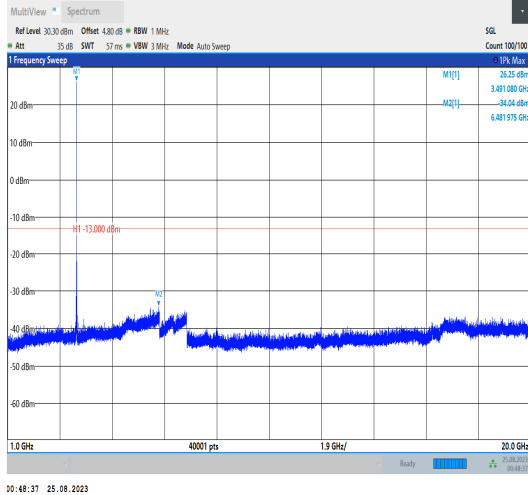
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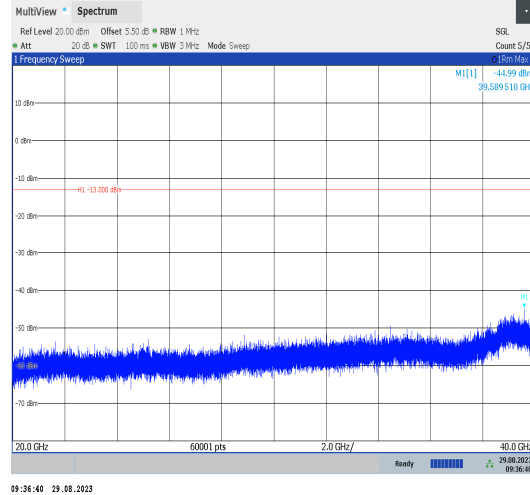
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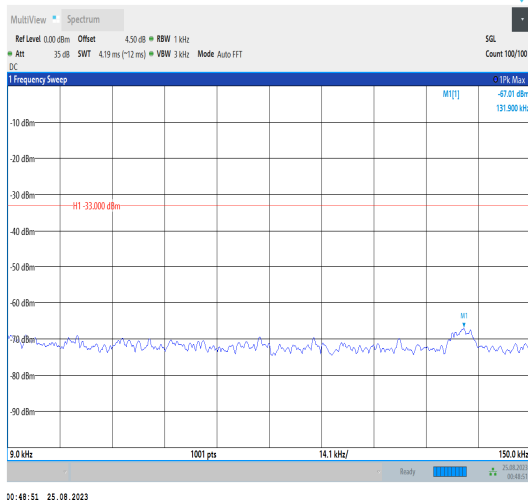
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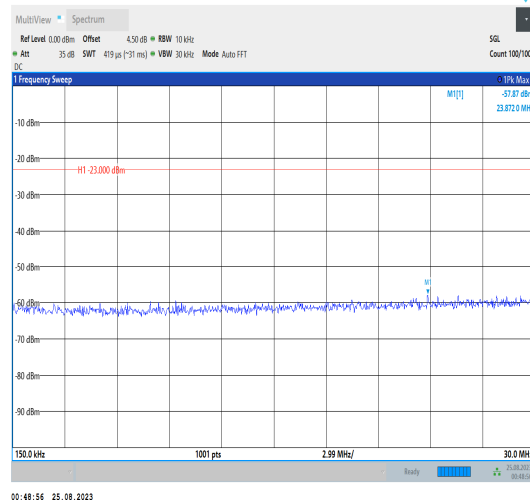
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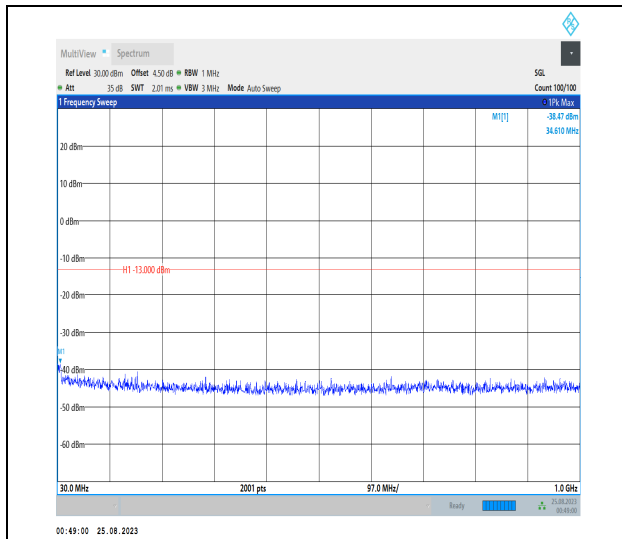
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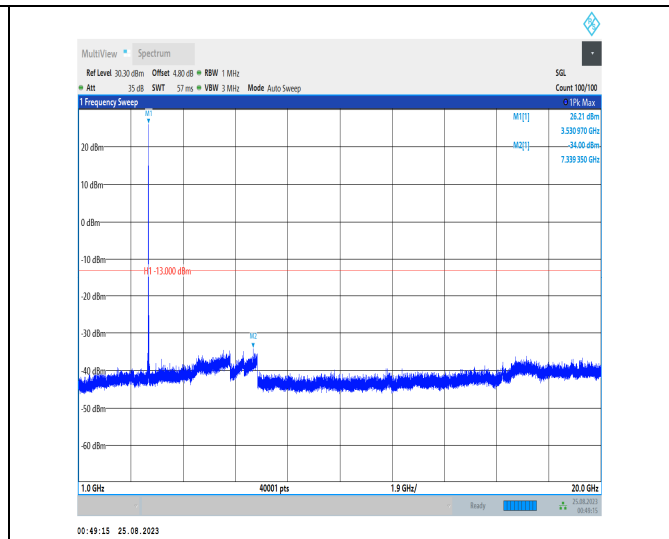
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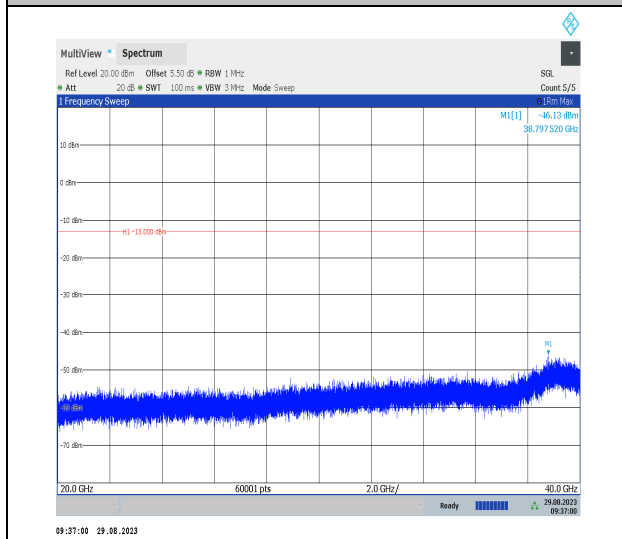
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Band42_20MHz_QPSK_42990_1RB#0_30~1000_30~1000



Band42_20MHz_QPSK_42990_1RB#0_1000~20000_1000~20000



Band42_20MHz_QPSK_42990_1RB#0_20000~40000_20000~40000



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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = LTE Band42_ TM1_20MHz

Test Channel = Low 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6902.1800	45.19	-43.88	35.02	-58.92	-13.00	45.92	126	240	Horizontal
2	8039.275	39.33	-41.82	36.78	-60.97	-13.00	47.97	254	359	Horizontal
3	9262.3	36.77	-40.02	36.80	-61.72	-13.00	48.72	145	183	Horizontal
4	10353.2700	33.14	-38.84	38.38	-62.58	-13.00	49.58	189	360	Horizontal
5	13804.3600	29.45	-36.22	40.55	-61.48	-13.00	48.48	193	59	Horizontal
6	17255.4500	30.88	-35.06	43.45	-55.99	-13.00	42.99	213	297	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	6902.1800	48.11	-43.88	35.02	-56.00	-13.00	43.00	278	357	Vertical
2	8404.975	39.33	-41.39	36.60	-60.72	-13.00	47.72	189	0	Vertical
3	8823.575	37.88	-41.09	36.39	-62.08	-13.00	49.08	155	222	Vertical
4	10353.2700	33.69	-38.84	38.38	-62.03	-13.00	49.03	146	166	Vertical
5	13804.3600	28.91	-36.22	40.55	-62.02	-13.00	49.02	195	257	Vertical
6	17255.4500	29.99	-35.06	43.45	-56.88	-13.00	43.88	182	257	Vertical



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Test Band = LTE Band42_ TM1_20MHz
Test Channel = Mid 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6982.1800	48.10	-43.15	35.17	-55.14	-13.00	42.14	200	25	Horizontal
2	8422.225	39.47	-41.47	36.59	-60.67	-13.00	47.67	120	341	Horizontal
3	9433.65	36.48	-39.93	37.12	-61.59	-13.00	48.59	302	356	Horizontal
4	10473.2700	33.15	-38.75	38.44	-62.42	-13.00	49.42	188	251	Horizontal
5	13964.3600	28.63	-35.06	40.84	-60.85	-13.00	47.85	172	116	Horizontal
6	17455.4500	29.25	-34.25	44.35	-55.91	-13.00	42.91	129	308	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	6982.1800	46.92	-43.15	35.17	-56.32	-13.00	43.32	244	178	Vertical
2	8403.825	39.46	-41.39	36.60	-60.59	-13.00	47.59	165	4	Vertical
3	9602.7	35.88	-39.21	37.45	-61.14	-13.00	48.14	185	30	Vertical
4	10473.2700	32.63	-38.75	38.44	-62.94	-13.00	49.94	196	20	Vertical
5	13964.3600	28.85	-35.06	40.84	-60.63	-13.00	47.63	254	199	Vertical
6	17455.4500	29.89	-34.25	44.35	-55.27	-13.00	42.27	135	64	Vertical



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Test Band = LTE Band42_ TM1_20MHz
Test Channel = High 3450-3550

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7062.1800	47.32	-43.41	35.37	-55.97	-13.00	42.97	187	47	Horizontal
2	8029.5	39.35	-41.90	36.79	-61.02	-13.00	48.02	148	350	Horizontal
3	9423.875	36.76	-39.93	37.11	-61.32	-13.00	48.32	186	147	Horizontal
4	10593.2700	32.71	-38.06	38.50	-62.11	-13.00	49.11	159	274	Horizontal
5	14124.3600	26.62	-35.87	40.95	-63.56	-13.00	50.56	136	261	Horizontal
6	17655.4500	28.57	-33.40	45.25	-54.84	-13.00	41.84	216	92	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	7062.1800	46.75	-43.41	35.37	-56.54	-13.00	43.54	210	335	Vertical
2	8943.75	37.99	-40.89	36.33	-61.83	-13.00	48.83	145	121	Vertical
3	10593.2700	32.09	-38.06	38.50	-62.73	-13.00	49.73	128	76	Vertical
4	12220.1	30.56	-37.02	38.87	-62.85	-13.00	49.85	173	166	Vertical
5	14124.3600	27.01	-35.87	40.95	-63.17	-13.00	50.17	263	132	Vertical
6	17655.4500	27.93	-33.40	45.25	-55.48	-13.00	42.48	251	19	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
Band42	20MHz	QPSK	42590	100RB#0	VN	NT	-2.60	-0.002357	PASS
Band42	20MHz	QPSK	42590	100RB#0	VL	NT	-4.50	-0.002236	PASS
Band42	20MHz	QPSK	42590	100RB#0	VH	NT	-0.80	-0.000635	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band42	20MHz	QPSK	42590	100RB#0	NV	-30	-1.50	-0.002563	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	-20	-2.20	-0.004215	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	-10	-2.50	-0.005635	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	0	-3.80	-0.001429	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	10	-3.50	-0.002368	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	20	-3.70	-0.001369	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	30	-2.80	-0.002542	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	40	-6.50	-0.006352	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	50	4.80	0.006542	PASS

---End of Attachment---



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