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Appendix B.5

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.77	24.57	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.85	24.65	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.69	24.49	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.78	23.58	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.82	24.62	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.92	24.72	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.85	24.65	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.88	23.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.57	24.37	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.63	24.43	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.56	24.36	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.62	23.42	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.11	23.91	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.2	24	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.14	23.94	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.87	22.67	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.14	23.94	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.24	24.04	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.04	23.84	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.02	22.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.77	23.57	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.87	23.67	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.79	23.59	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.74	22.54	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.84	24.64	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.79	24.59	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.83	24.63	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.98	23.78	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.93	24.73	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.93	24.73	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.87	24.67	34.77	PASS



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Band12	3MHz	QPSK	23095	15RB#0	21.98	23.78	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.68	24.48	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.66	24.46	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.65	24.45	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.75	23.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.16	23.96	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.08	23.88	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.14	23.94	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.98	22.78	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.16	23.96	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.29	24.09	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.23	24.03	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.02	22.82	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.97	23.77	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.87	23.67	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.91	23.71	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.74	22.54	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.83	24.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.87	24.67	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.79	24.59	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.92	23.72	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.82	24.62	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.94	24.74	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.86	24.66	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.97	23.77	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.85	24.65	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.68	24.48	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.58	24.38	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.83	23.63	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.09	23.89	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.05	23.85	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.99	23.79	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.92	22.72	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.04	23.84	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.19	23.99	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.15	23.95	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.03	22.83	34.77	PASS



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Band12	5MHz	16QAM	23155	1RB#0	22.11	23.91	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.86	23.66	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.78	23.58	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.85	22.65	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.84	24.64	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.82	24.62	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.9	24.7	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.02	23.82	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.85	24.65	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.91	24.71	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.87	24.67	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.99	23.79	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.91	24.71	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.89	24.69	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.72	24.52	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.94	23.74	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.13	23.93	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.1	23.9	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.09	23.89	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.04	22.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.04	23.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.19	23.99	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.14	23.94	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.02	22.82	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.18	23.98	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.33	24.13	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.87	23.67	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.95	22.75	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.62	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.52	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.18	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.34	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.38	13	PASS



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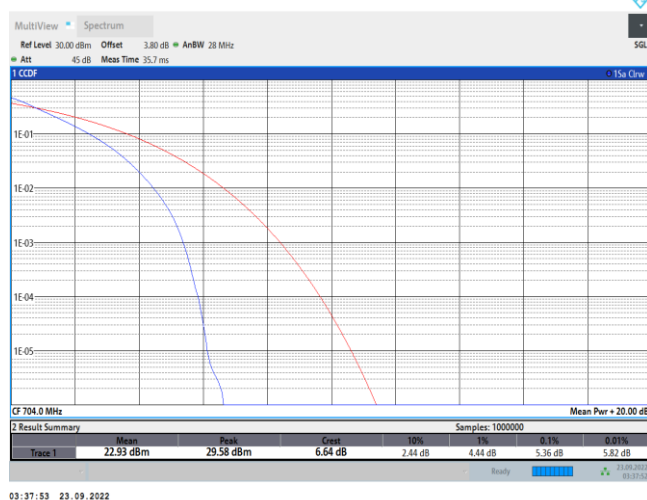
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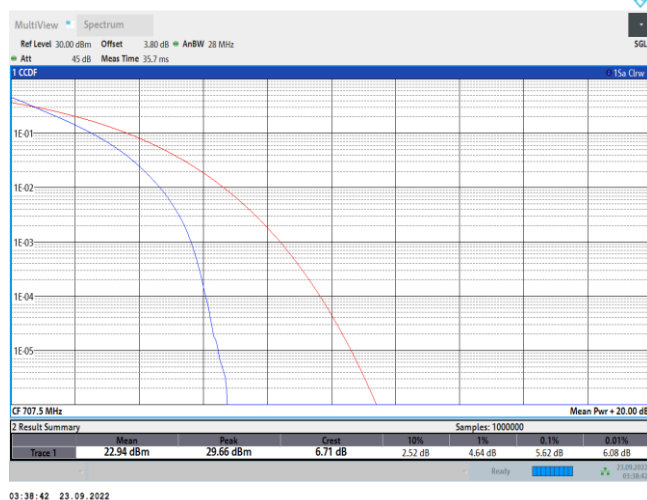
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Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23095-50RB#0



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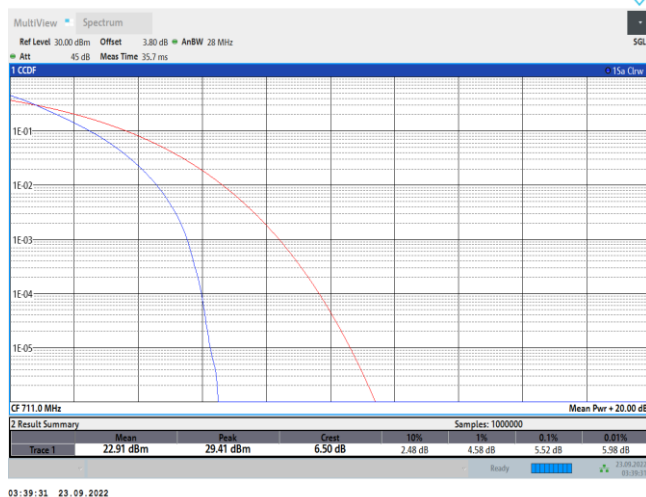
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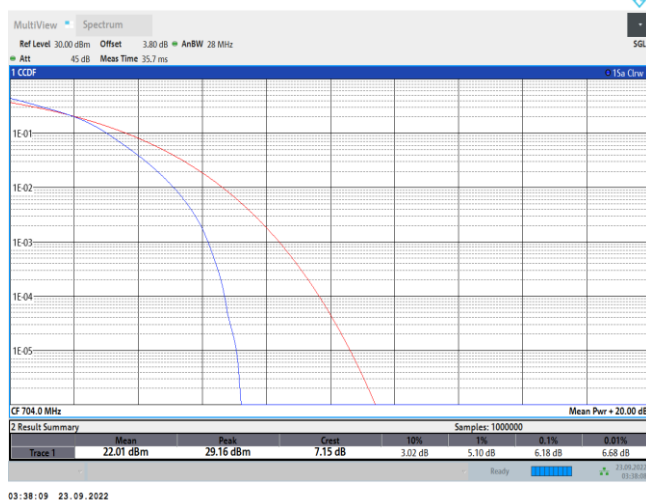
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Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-50RB#0



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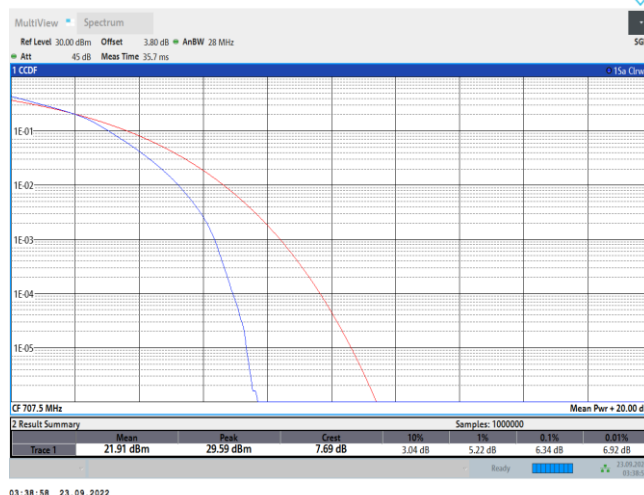
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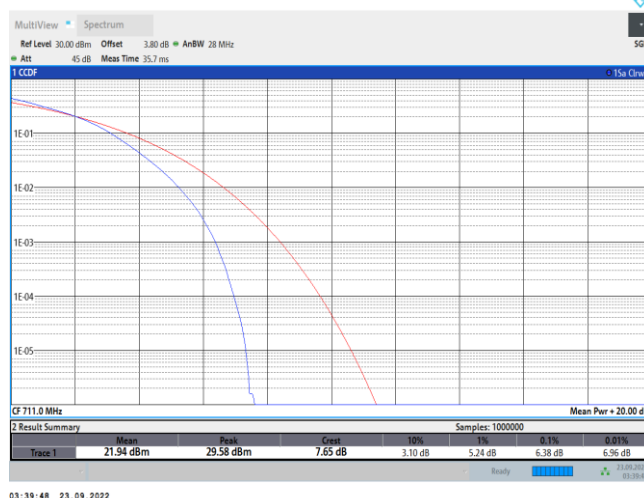
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Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS



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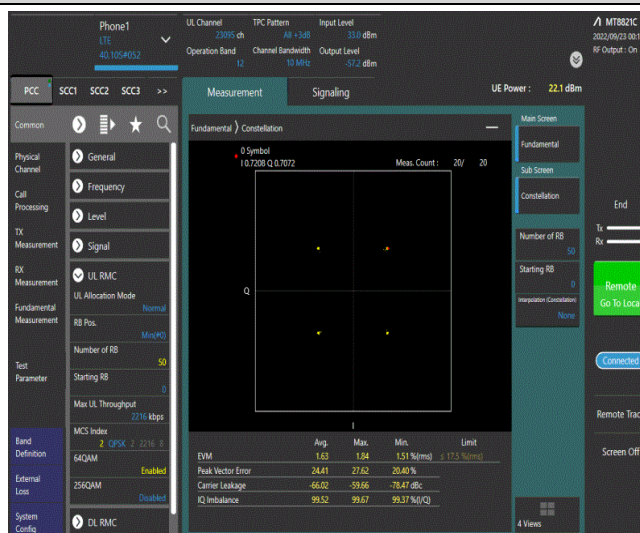
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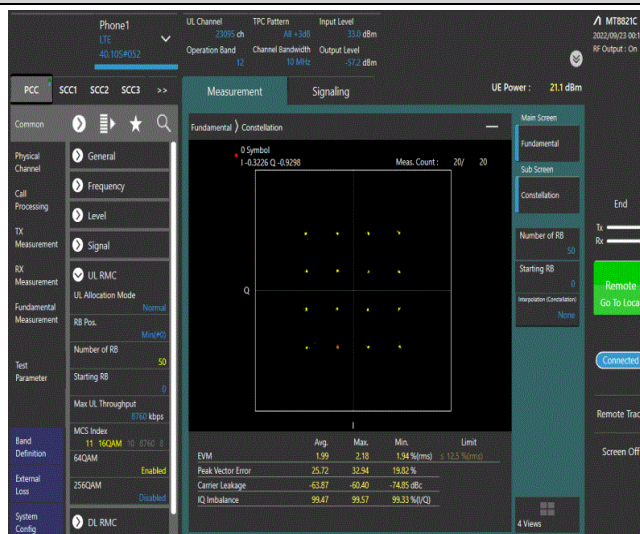
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Test Graphs

Band12-10MHz-QPSK-23095-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.086	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.087	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.085	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.093	1.24	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.092	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.96	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.698	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.693	2.97	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.687	3.01	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.692	2.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.688	2.98	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.464	4.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.478	4.89	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.467	4.86	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.463	4.88	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.474	4.90	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.463	4.88	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.907	9.56	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.953	9.68	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.62	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.889	9.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.935	9.66	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.915	9.62	PASS



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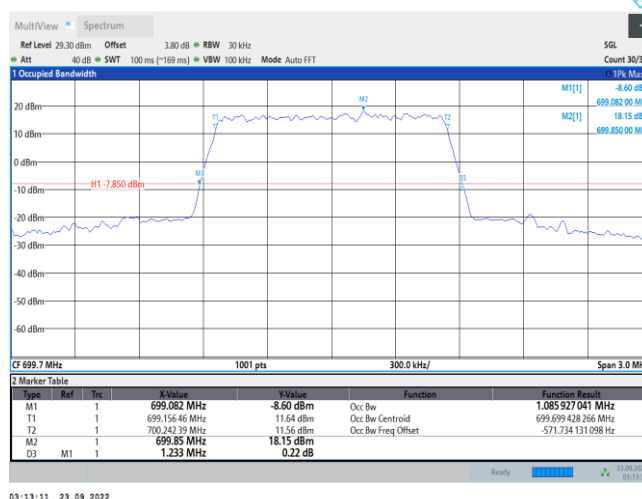
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Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23095-6RB#0



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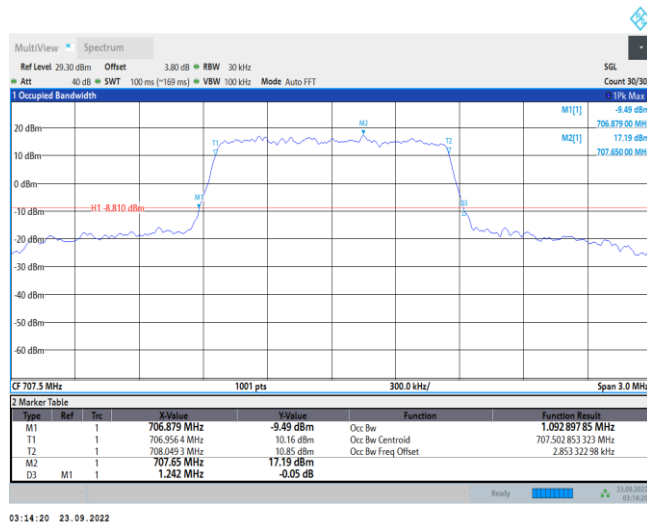
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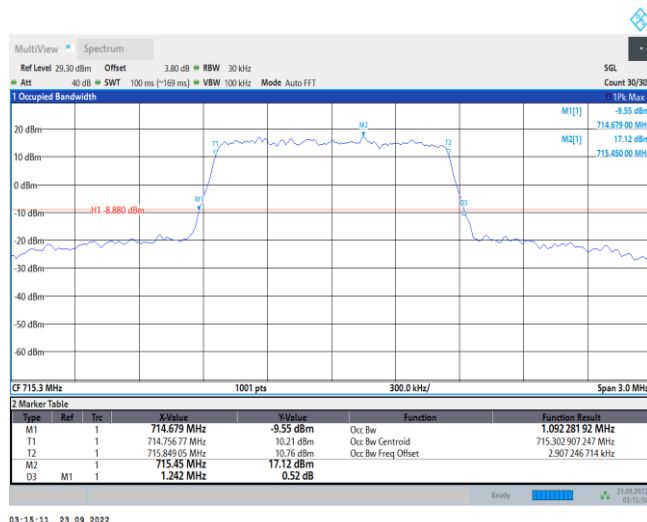
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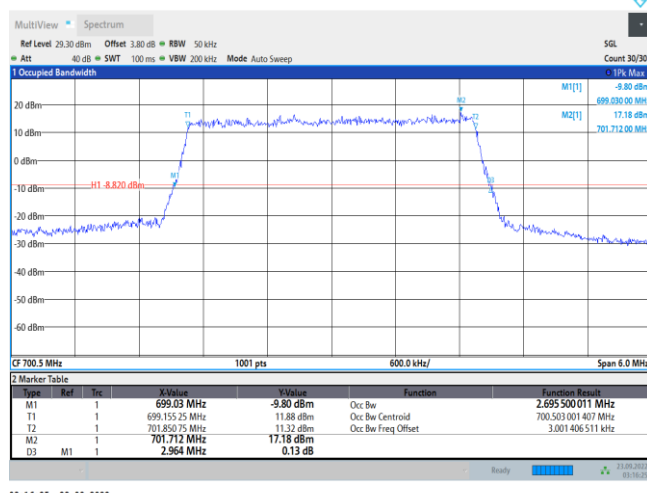
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Band12-3MHz-QPSK-23025-15RB#0



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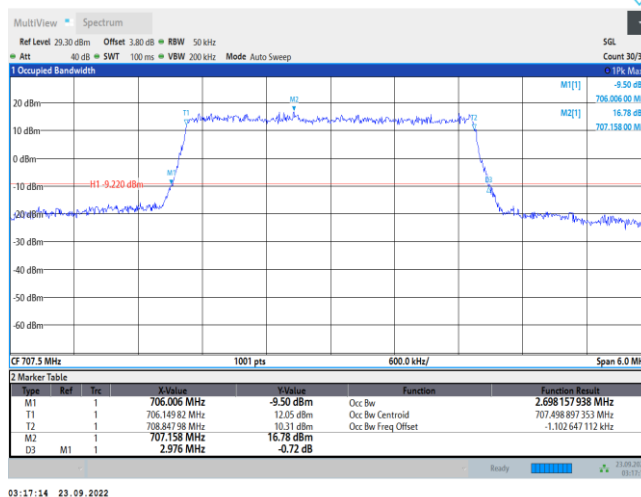
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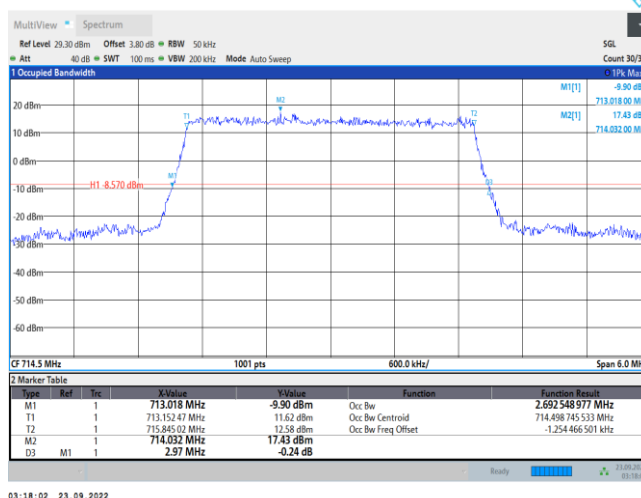
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Band12-3MHz-QPSK-23165-15RB#0



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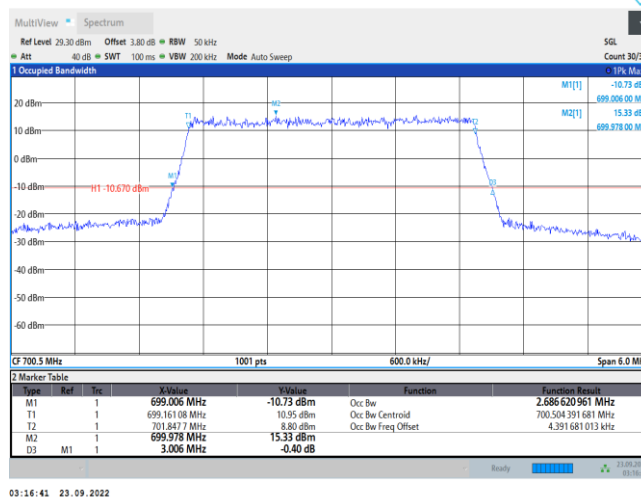
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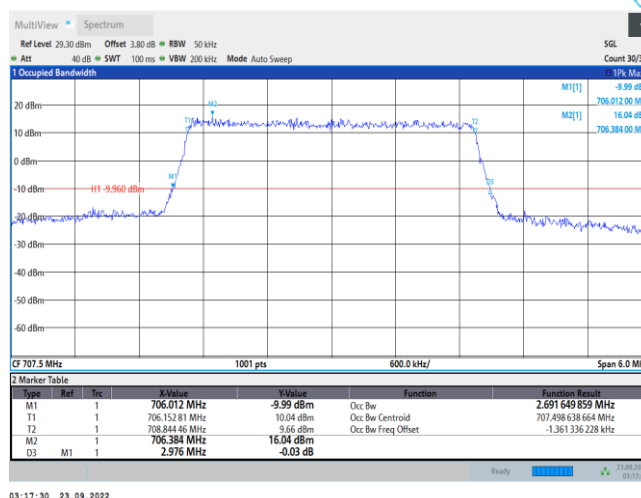
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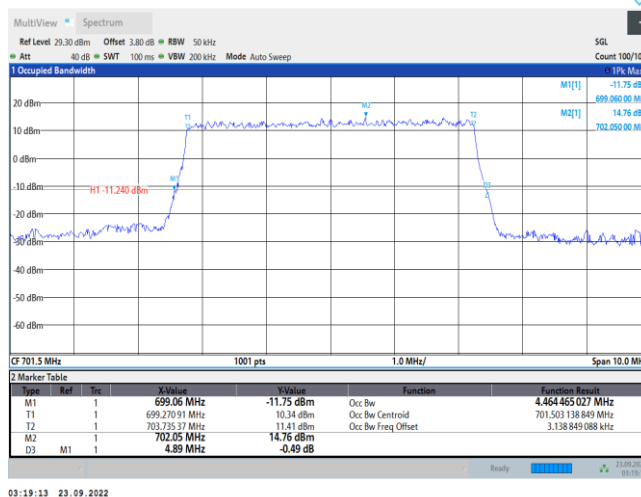
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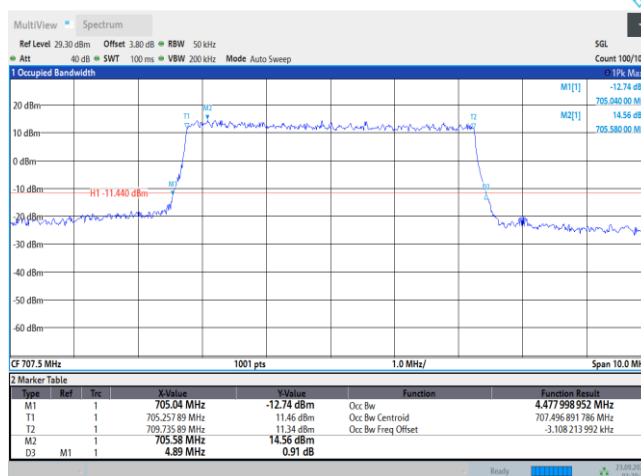
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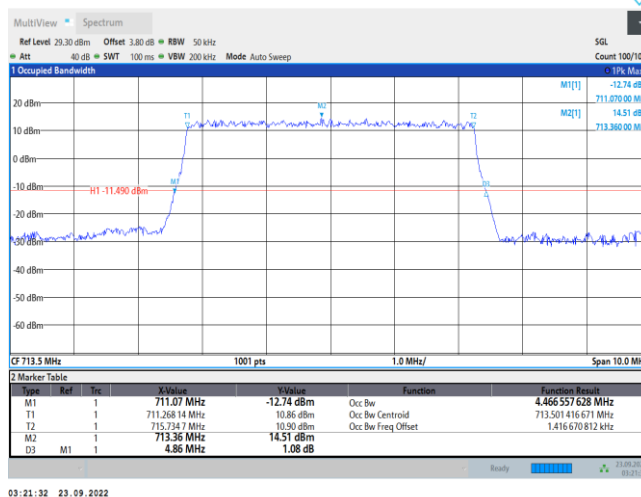
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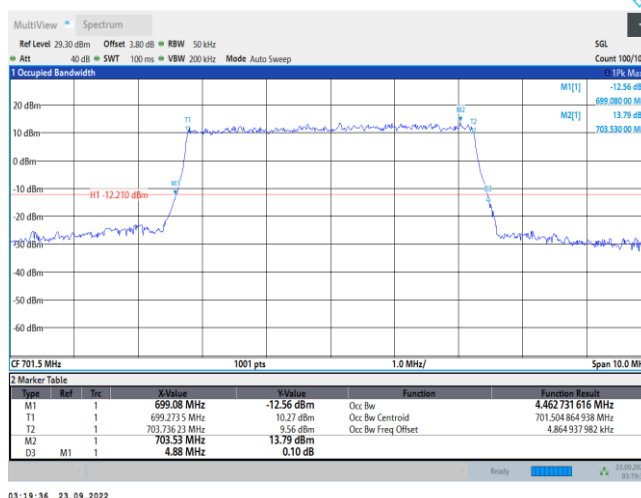
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Band12-5MHz-16QAM-23035-25RB#0

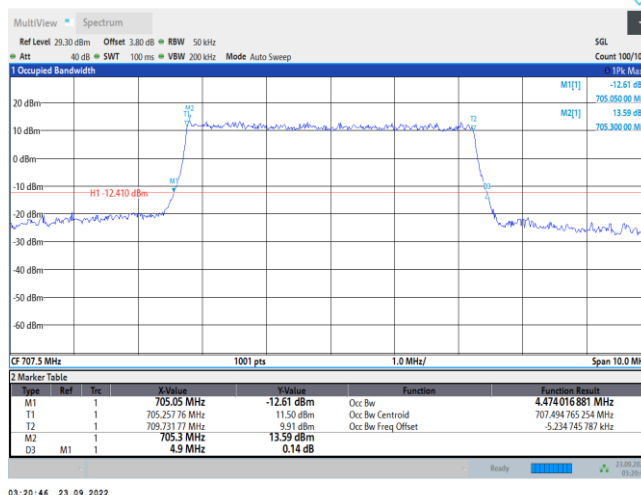


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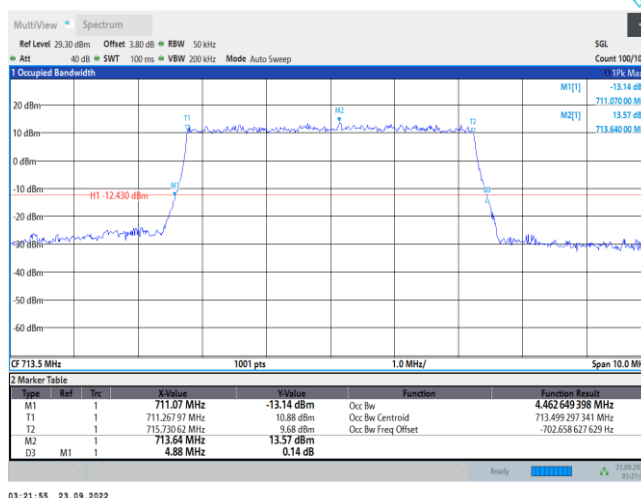
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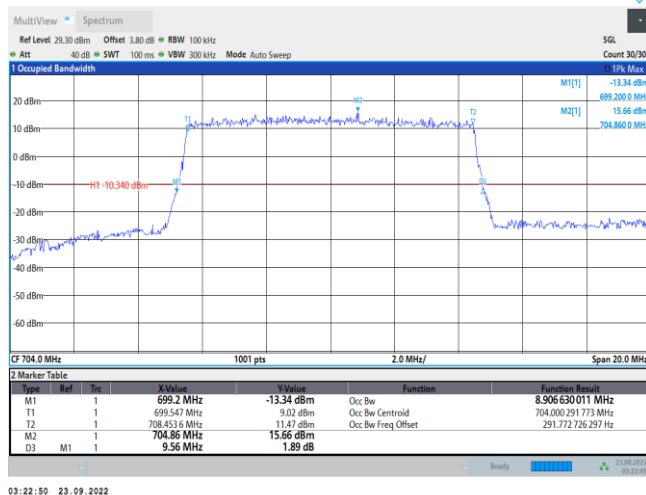


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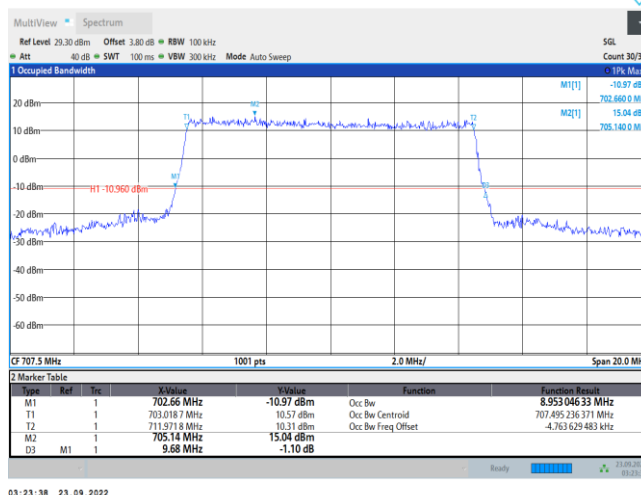
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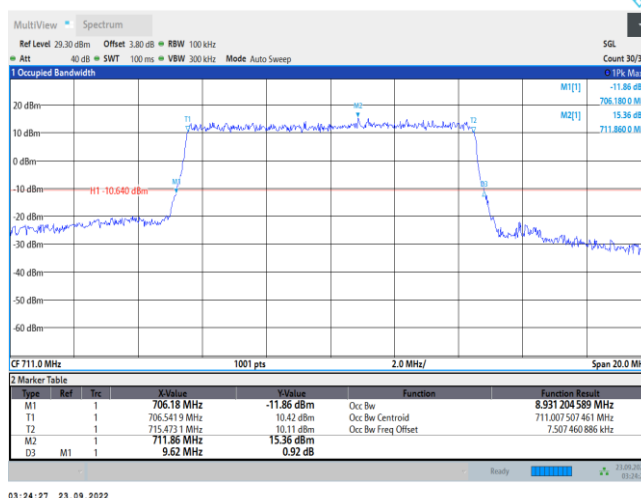
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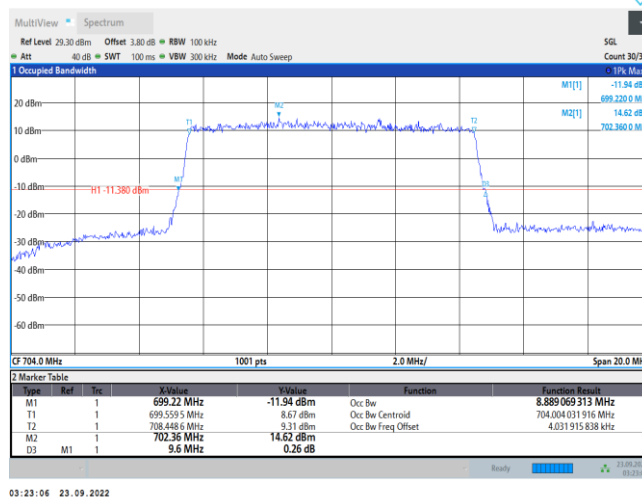


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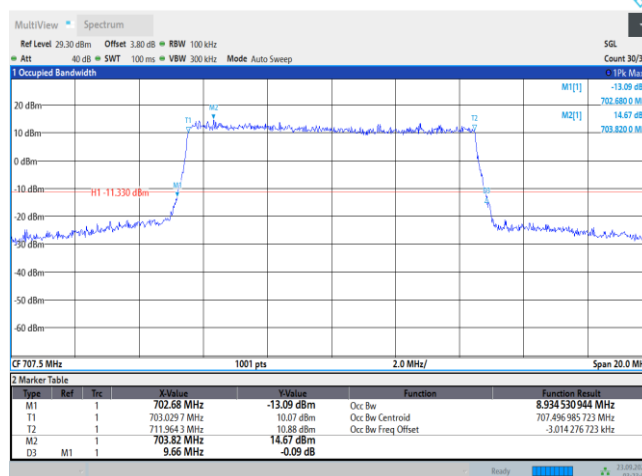
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Band12-10MHz-16QAM-23095-50RB#0



03:23:54 23.09.2022



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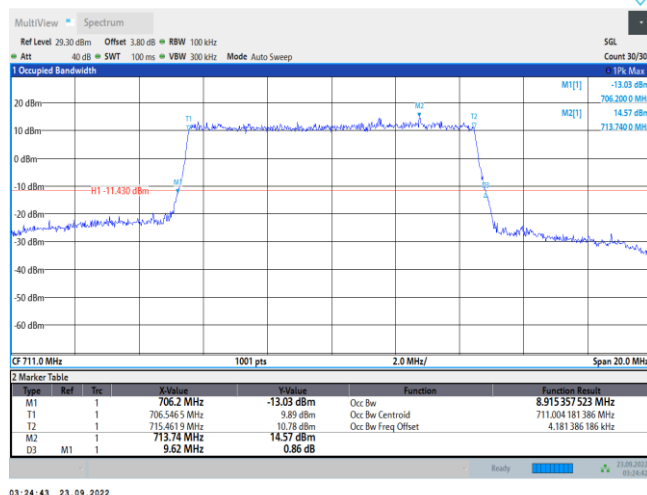
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Band12-10MHz-16QAM-23130-50RB#0



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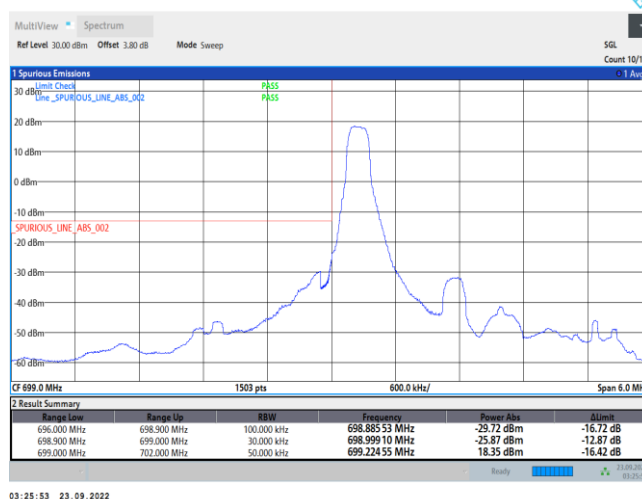
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Band Edge

Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0



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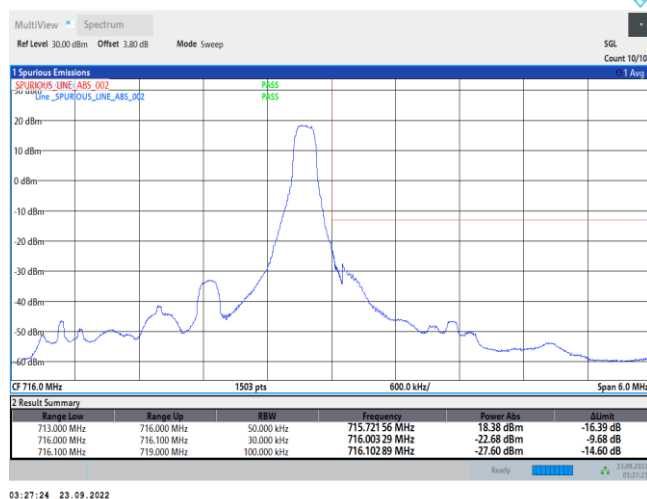
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Band12-1.4MHz-QPSK-23173-1RB#5



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Band12-1.4MHz-QPSK-23173-6RB#0



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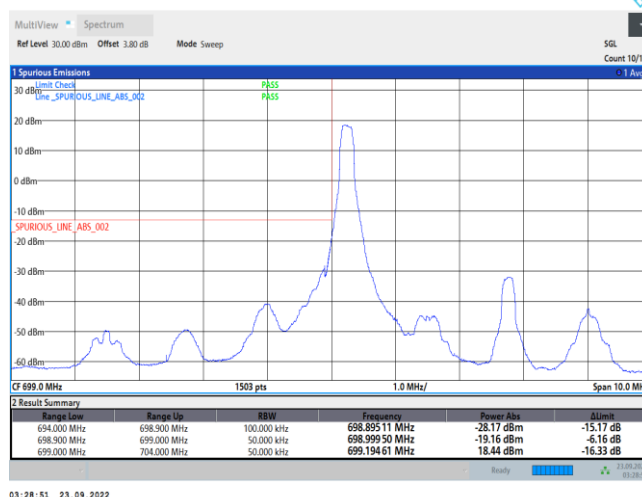
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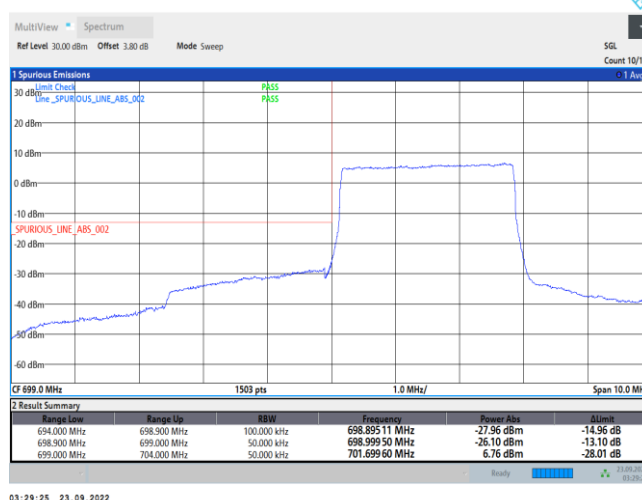
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Band12-3MHz-QPSK-23025-1RB#0



Band12-3MHz-QPSK-23025-15RB#0



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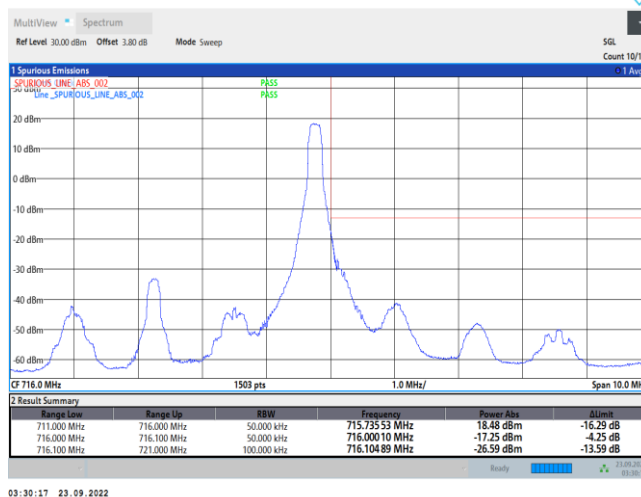
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Band12-3MHz-QPSK-23165-1RB#14



Band12-3MHz-QPSK-23165-15RB#0



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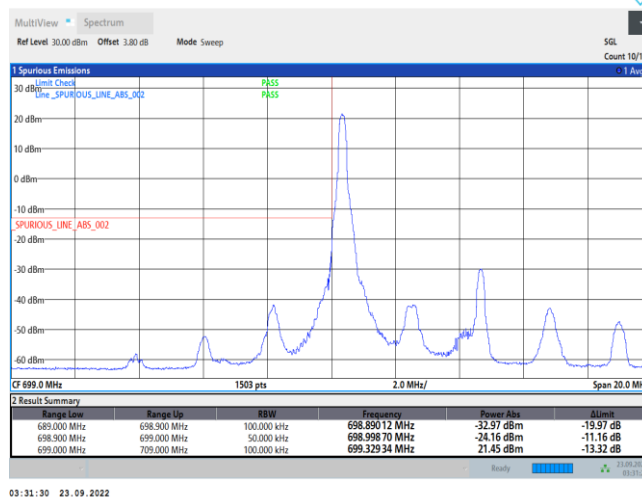
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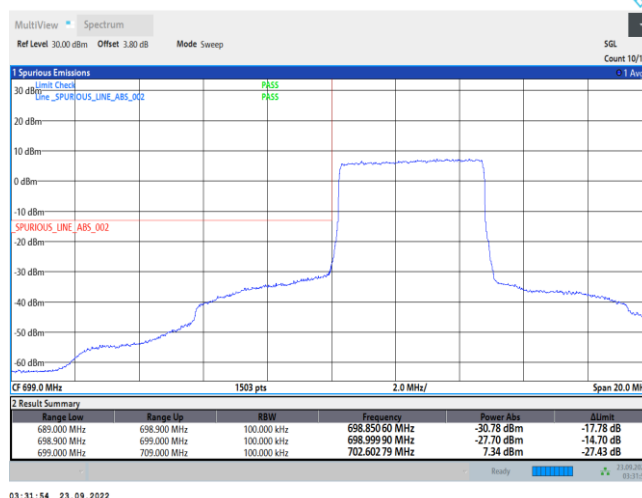
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Band12-5MHz-QPSK-23035-1RB#0



Band12-5MHz-QPSK-23035-25RB#0



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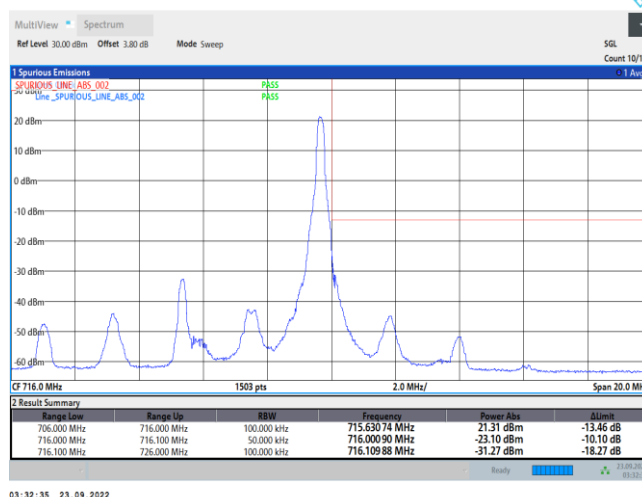
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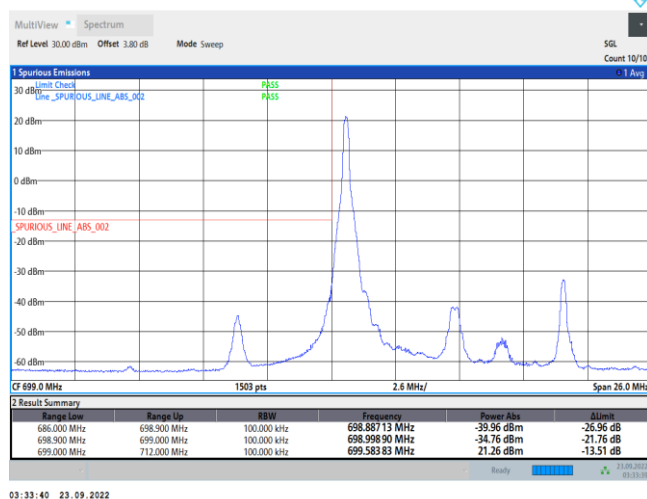
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Band12-10MHz-QPSK-23060-1RB#0



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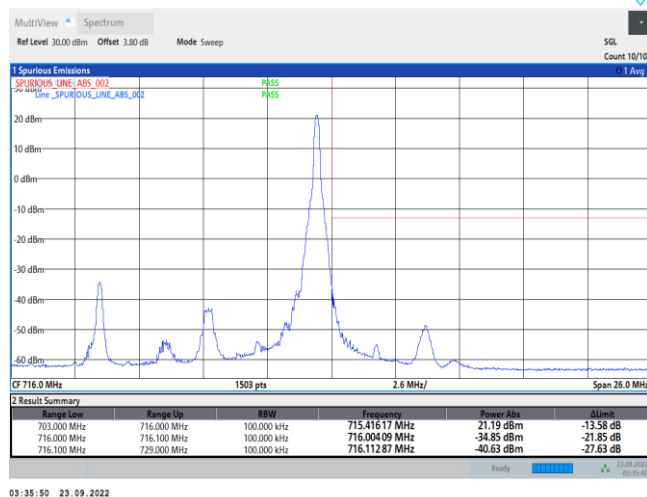
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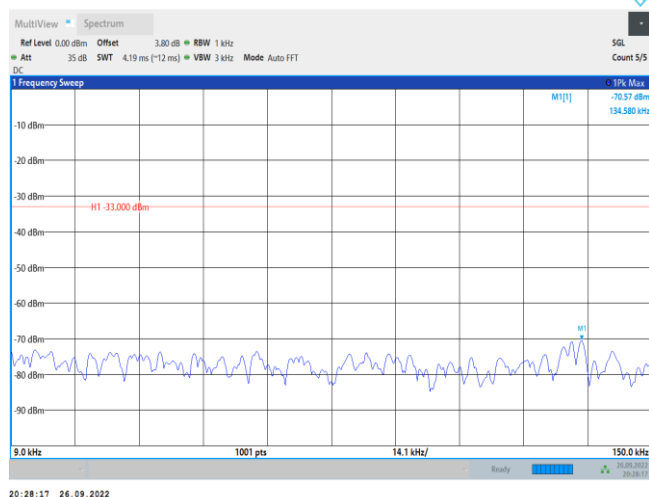
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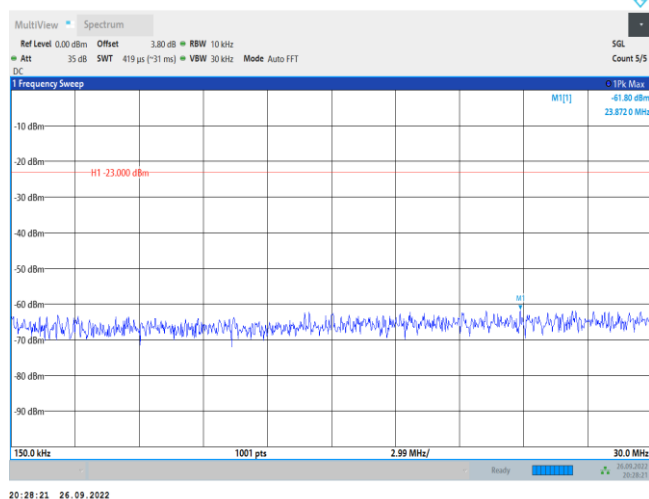
Conducted Spurious Emission

Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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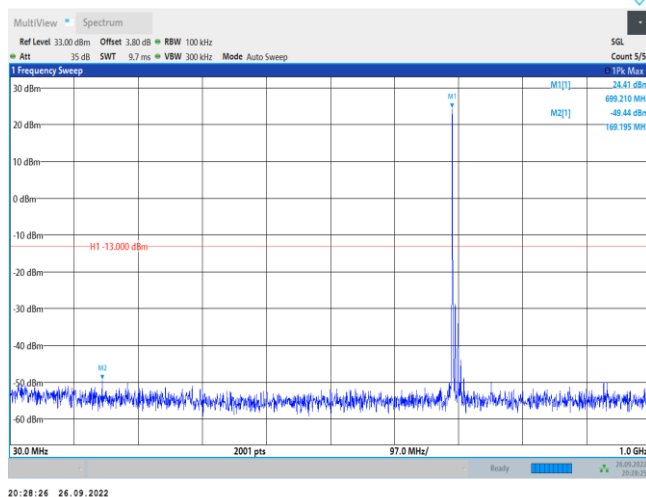
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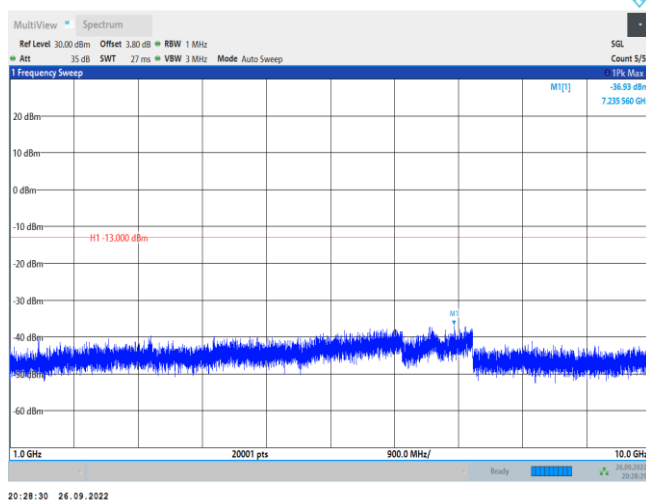
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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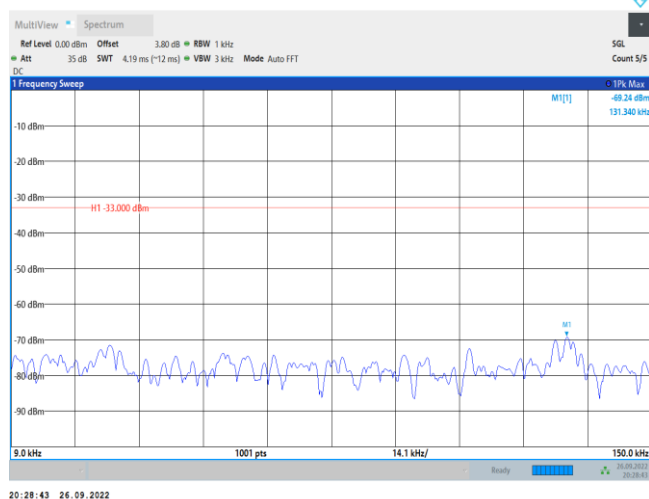
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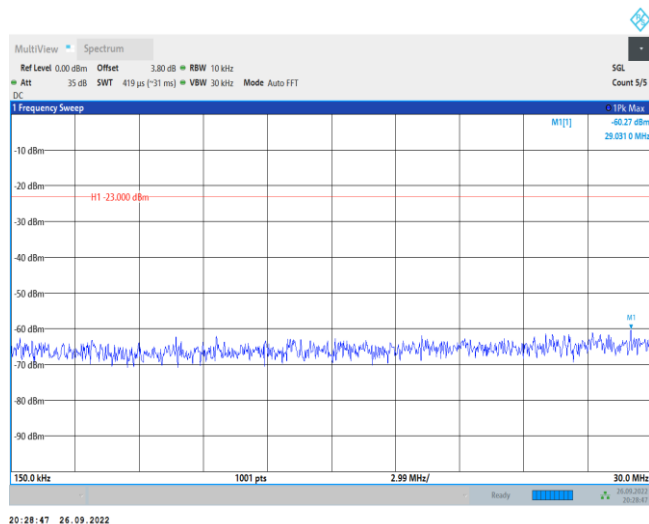
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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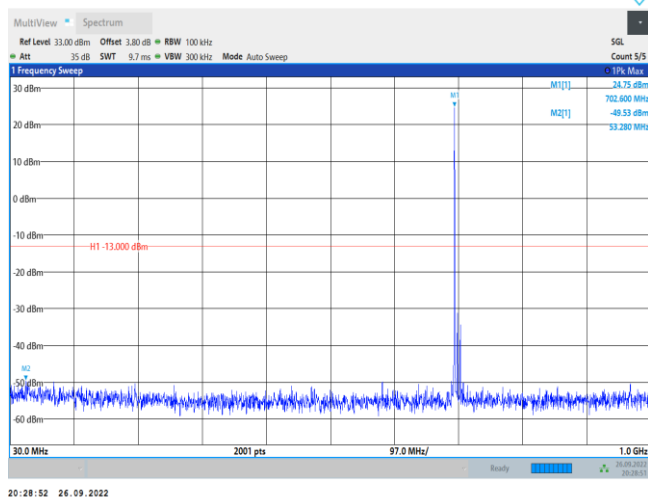
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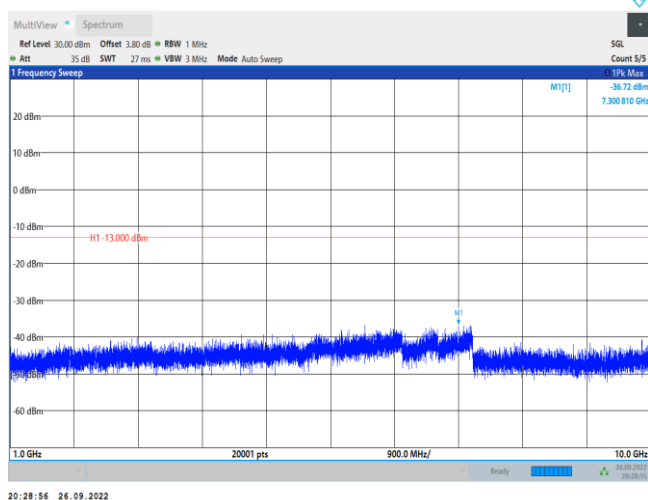
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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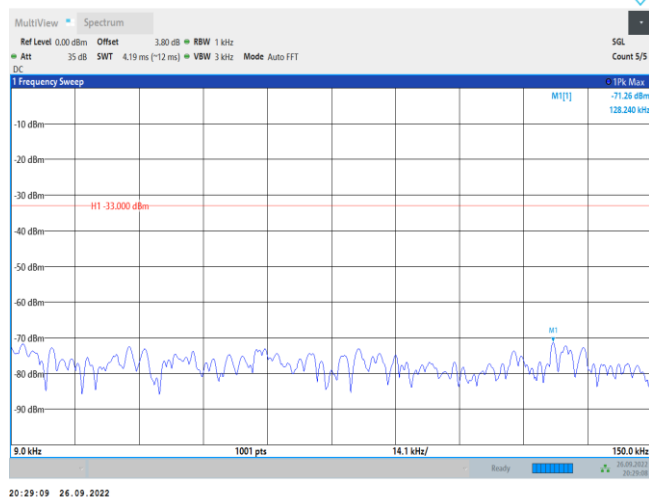
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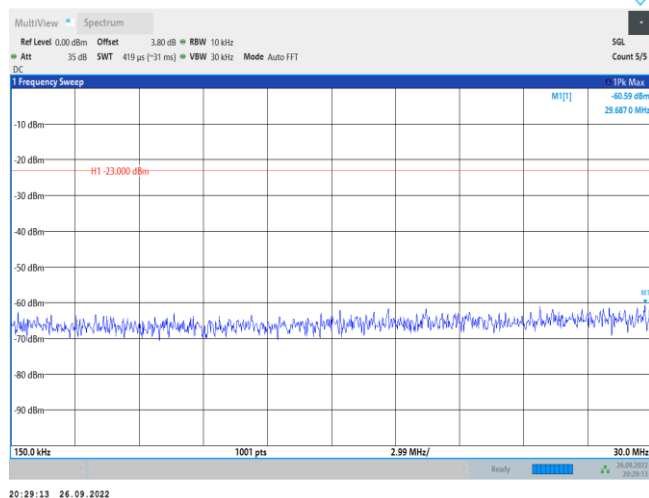
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



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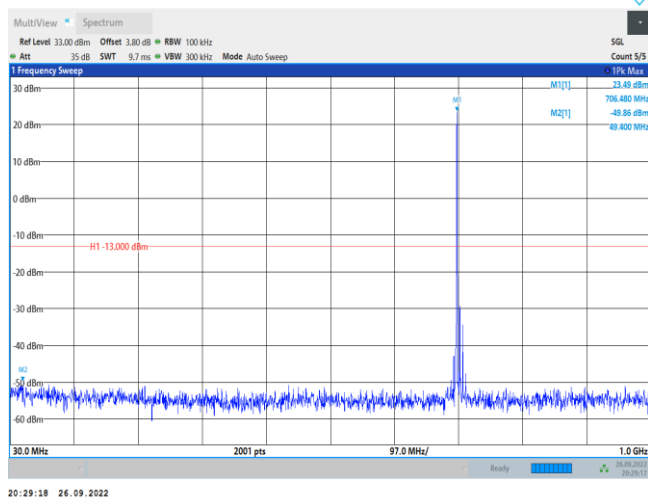
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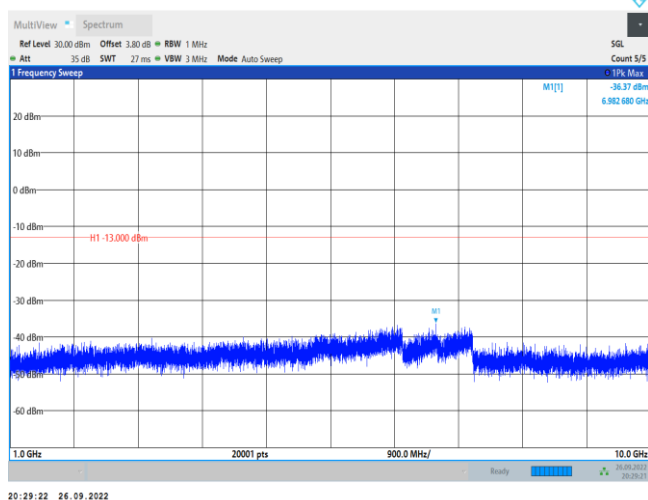
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band12_ 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	1399.1800	63.30	-48.00	25.62	-54.34	-13.00	41.34	254	191	Horizontal
2	2098.7700	49.99	-47.71	26.99	-66.00	-13.00	53.00	132	310	Horizontal
3	2798.3600	50.77	-46.92	28.48	-62.93	-13.00	49.93	122	72	Horizontal
4	3497.9500	50.06	-46.54	29.52	-62.22	-13.00	49.22	198	126	Horizontal
5	4197.5400	47.68	-45.96	31.10	-62.44	-13.00	49.44	178	257	Horizontal
6	4897.1300	48.07	-45.58	32.59	-60.18	-13.00	47.18	159	20	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	1398.8571	60.67	-48.00	25.62	-56.97	-13.00	43.97	253	93	Vertical
2	2098.7700	51.57	-47.71	26.99	-64.42	-13.00	51.42	269	4	Vertical
3	2798.3600	49.73	-46.92	28.48	-63.97	-13.00	50.97	285	67	Vertical
4	3497.9500	50.69	-46.54	29.52	-61.59	-13.00	48.59	147	159	Vertical
5	4197.5400	47.47	-45.96	31.10	-62.65	-13.00	49.65	154	80	Vertical
6	4897.1300	49.09	-45.58	32.59	-59.16	-13.00	46.16	169	292	Vertical



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Test Band = LTE Band12_ 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	1406.1800	59.03	-48.02	25.61	-58.64	-13.00	45.64	233	201	Horizontal
2	2109.2700	54.46	-47.71	27.02	-61.48	-13.00	48.48	302	306	Horizontal
3	2812.3600	52.36	-46.88	28.53	-61.24	-13.00	48.24	122	306	Horizontal
4	3515.4500	50.45	-46.51	29.53	-61.78	-13.00	48.78	145	148	Horizontal
5	4218.5400	47.95	-45.93	31.14	-62.10	-13.00	49.10	162	319	Horizontal
6	4921.6300	48.90	-45.63	32.66	-59.33	-13.00	46.33	197	4	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	1406.1800	57.45	-48.02	25.61	-60.22	-13.00	47.22	215	90	Vertical
2	2109.2700	52.39	-47.71	27.02	-63.55	-13.00	50.55	145	12	Vertical
3	2812.3600	50.13	-46.88	28.53	-63.47	-13.00	50.47	125	144	Vertical
4	3515.4500	49.89	-46.51	29.53	-62.34	-13.00	49.34	136	210	Vertical
5	4218.5400	47.76	-45.93	31.14	-62.29	-13.00	49.29	251	104	Vertical
6	4921.6300	48.20	-45.63	32.66	-60.03	-13.00	47.03	169	210	Vertical



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Test Band = LTE Band12_ 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	1413.1800	55.56	-48.04	25.60	-62.14	-13.00	49.14	211	349	Horizontal
2	2119.7700	60.41	-47.70	27.06	-55.49	-13.00	42.49	145	310	Horizontal
3	2826.3600	51.06	-46.83	28.60	-62.43	-13.00	49.43	129	5	Horizontal
4	3532.9500	49.05	-46.47	29.55	-63.13	-13.00	50.13	152	31	Horizontal
5	4239.5400	48.71	-45.89	31.18	-61.26	-13.00	48.26	142	1	Horizontal
6	4946.1300	48.37	-45.69	32.73	-59.85	-13.00	46.85	136	283	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	1413.1429	59.99	-48.04	25.60	-57.71	-13.00	44.71	222	92	Vertical
2	2119.7700	60.99	-47.70	27.06	-54.91	-13.00	41.91	184	3	Vertical
3	2826.3600	50.95	-46.83	28.60	-62.54	-13.00	49.54	165	290	Vertical
4	3532.9500	49.14	-46.47	29.55	-63.04	-13.00	50.04	195	79	Vertical
5	4239.5400	49.12	-45.89	31.18	-60.85	-13.00	47.85	148	105	Vertical
6	4946.1300	48.75	-45.69	32.73	-59.47	-13.00	46.47	175	342	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
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-6.80	-0.009611	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-6.00	-0.008481	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	2.00	0.002827	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.60	0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-4.20	-0.005936	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-5.10	-0.007208	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	2.30	0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-6.50	-0.009187	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-5.40	-0.007633	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-4.50	-0.006360	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.30	-0.001837	PASS

---End of Attachment---



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