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Appendix B.7

LTE Band 12



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t (86-512) 62992980 sgs.china@sgs.com

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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	23.73	16.61	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.86	16.74	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.76	16.64	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.87	15.75	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.74	16.62	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.84	16.72	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.70	16.58	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.90	15.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.67	16.55	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.84	16.72	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.67	16.55	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.87	15.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.00	15.88	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.18	16.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.06	15.94	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.98	14.86	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.03	15.91	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.20	16.08	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.08	15.96	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.99	14.87	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.05	15.93	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.23	16.11	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.06	15.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.01	14.89	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.03	14.91	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#2	22.13	15.01	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.95	14.83	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.88	13.76	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.97	14.85	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.05	14.93	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.93	14.81	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.93	13.81	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.00	14.88	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.09	14.97	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.90	14.78	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.90	13.78	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.76	16.64	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.76	16.64	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.81	16.69	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.84	15.72	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.75	16.63	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.75	16.63	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.74	16.62	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.86	15.74	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.78	16.66	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.73	16.61	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.72	16.60	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.84	15.72	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.07	15.95	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.12	16.00	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.13	16.01	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.89	14.77	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.13	16.01	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.08	15.96	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.10	15.98	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.87	14.75	34.77	PASS



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Table with 9 columns: Band, Frequency, Modulation, Channel Bandwidth, Bandwidth, Center Frequency, Bandwidth, and Result. It lists 40 test results, all of which are 'PASS'.



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Table with 9 columns: Band, Frequency, Modulation, Channel, Bandwidth, SNR, C/N, BER, and Result. It contains 36 rows of test data for various bands and modulations, all resulting in 'PASS'.



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Band12	10MHz	QPSK	23130	1RB#49	23.74	16.62	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.86	15.74	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.06	15.94	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.17	16.05	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.04	15.92	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.99	14.87	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.07	15.95	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.19	16.07	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.06	15.94	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.90	14.78	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.11	15.99	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.15	16.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.98	15.86	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.87	14.75	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.04	14.92	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.13	15.01	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.01	14.89	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.99	13.87	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.99	14.87	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.09	14.97	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.97	14.85	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.91	13.79	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.05	14.93	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.08	14.96	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.96	14.84	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.88	13.76	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	5.32	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.34	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.32	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.10	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.08	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.62	13	PASS

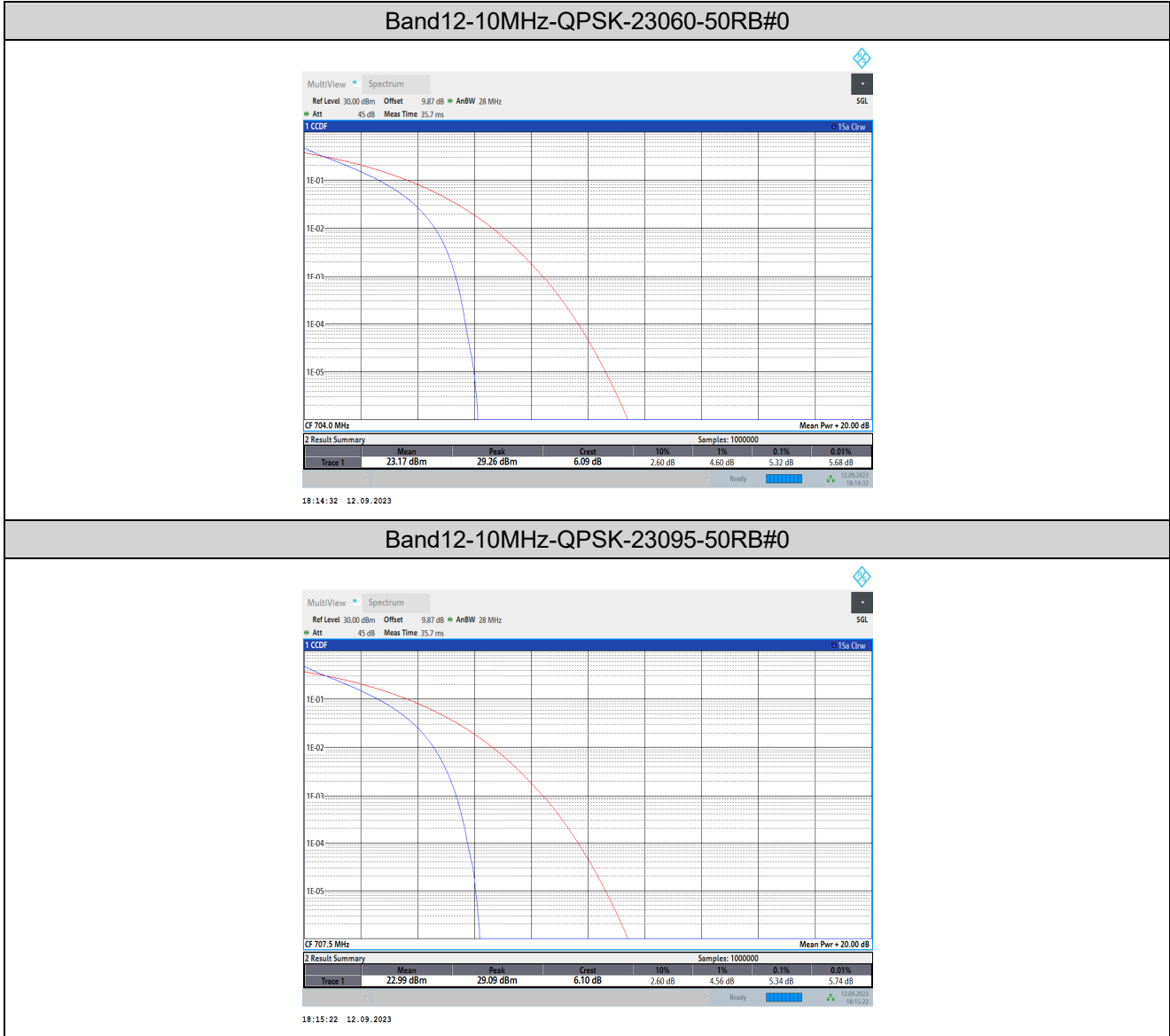


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Test Graphs

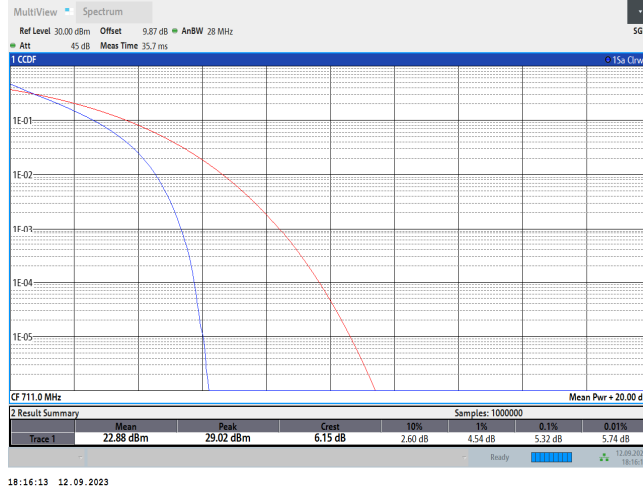


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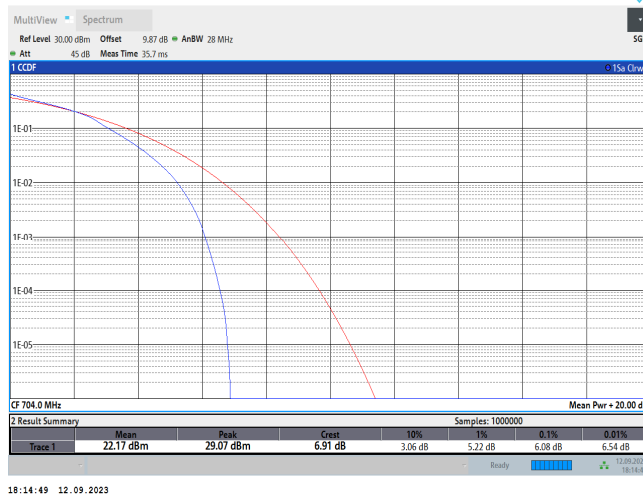
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Band12-10MHz-QPSK-23130-50RB#0



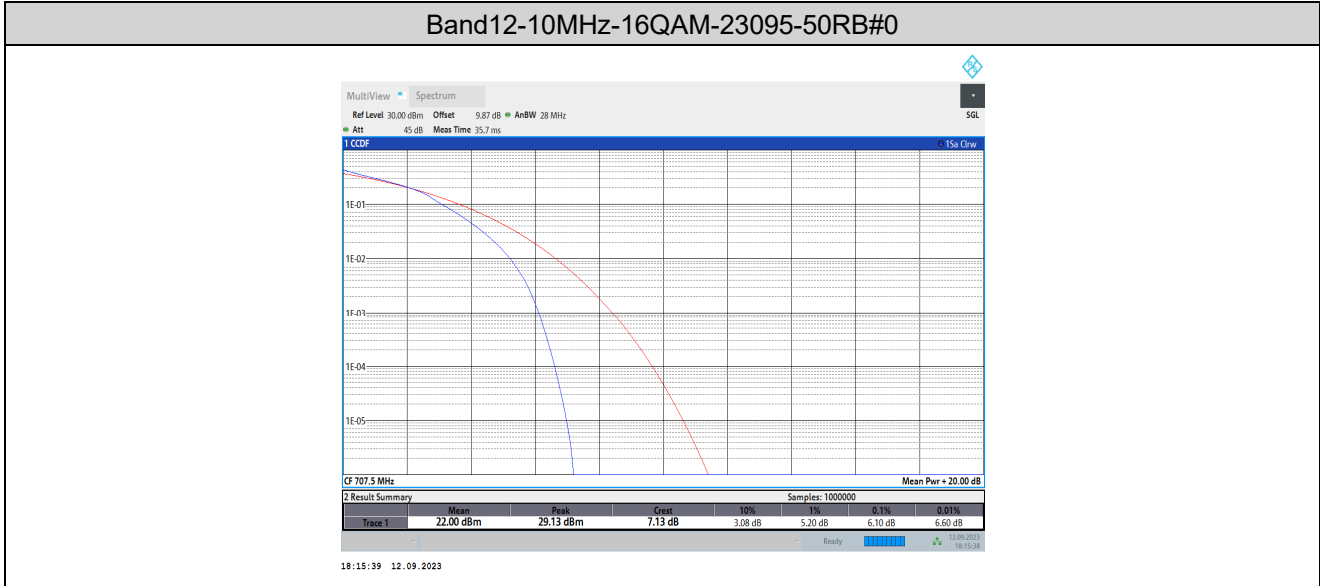
Band12-10MHz-16QAM-23060-50RB#0



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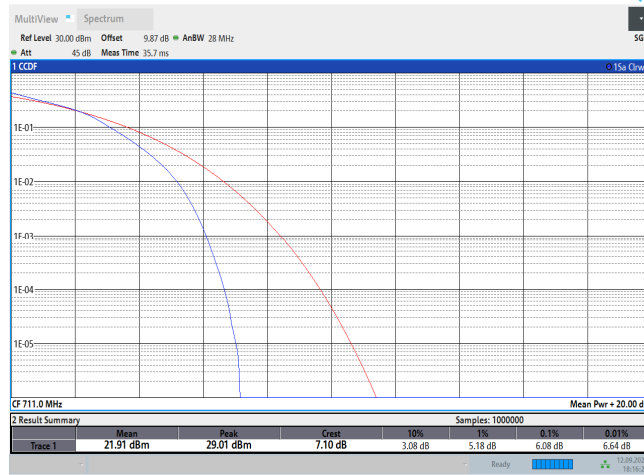


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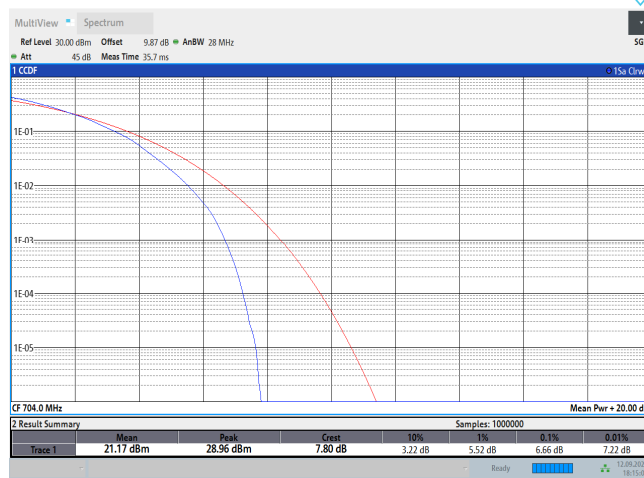
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Band12-10MHz-16QAM-23130-50RB#0



18:16:29 12.09.2023

Band12-10MHz-64QAM-23060-50RB#0



18:15:05 12.09.2023

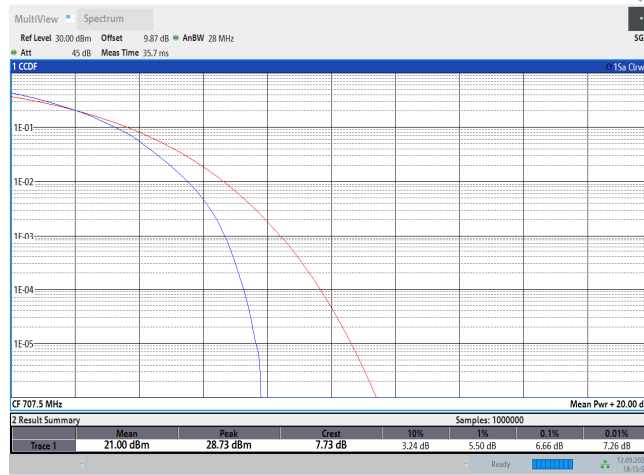


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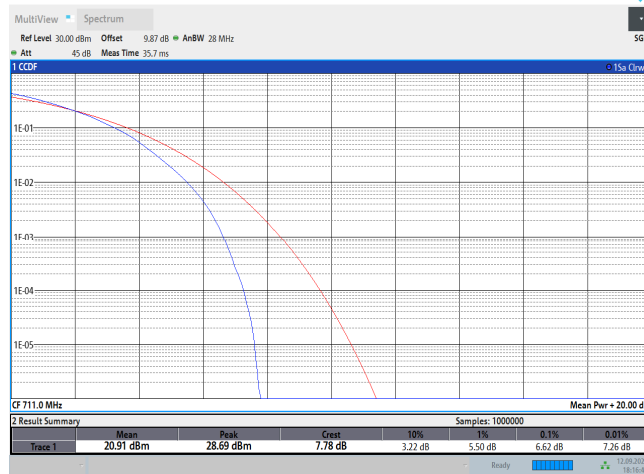
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Band12-10MHz-64QAM-23095-50RB#0



18:15:56 12.09.2023

Band12-10MHz-64QAM-23130-50RB#0



18:16:46 12.09.2023



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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	1.085	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.085	1.27	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.095	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.688	2.88	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.687	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.692	2.90	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.678	2.91	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.679	2.92	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.68	2.91	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.683	2.89	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.679	2.90	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.682	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.478	5.05	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	5.03	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	5.04	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.475	5.09	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.475	5.07	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.468	5.03	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.488	5.07	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.483	5.06	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.487	5.07	PASS



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Report No.: SEWM2312000502RG01

Rev.: 01

Page: 14 of 53

Band12	10MHz	QPSK	23060	50RB#0	8.956	9.86	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.943	9.78	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.928	9.88	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.937	9.82	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.918	9.78	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.925	9.76	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.956	9.90	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.946	9.84	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.934	9.88	PASS



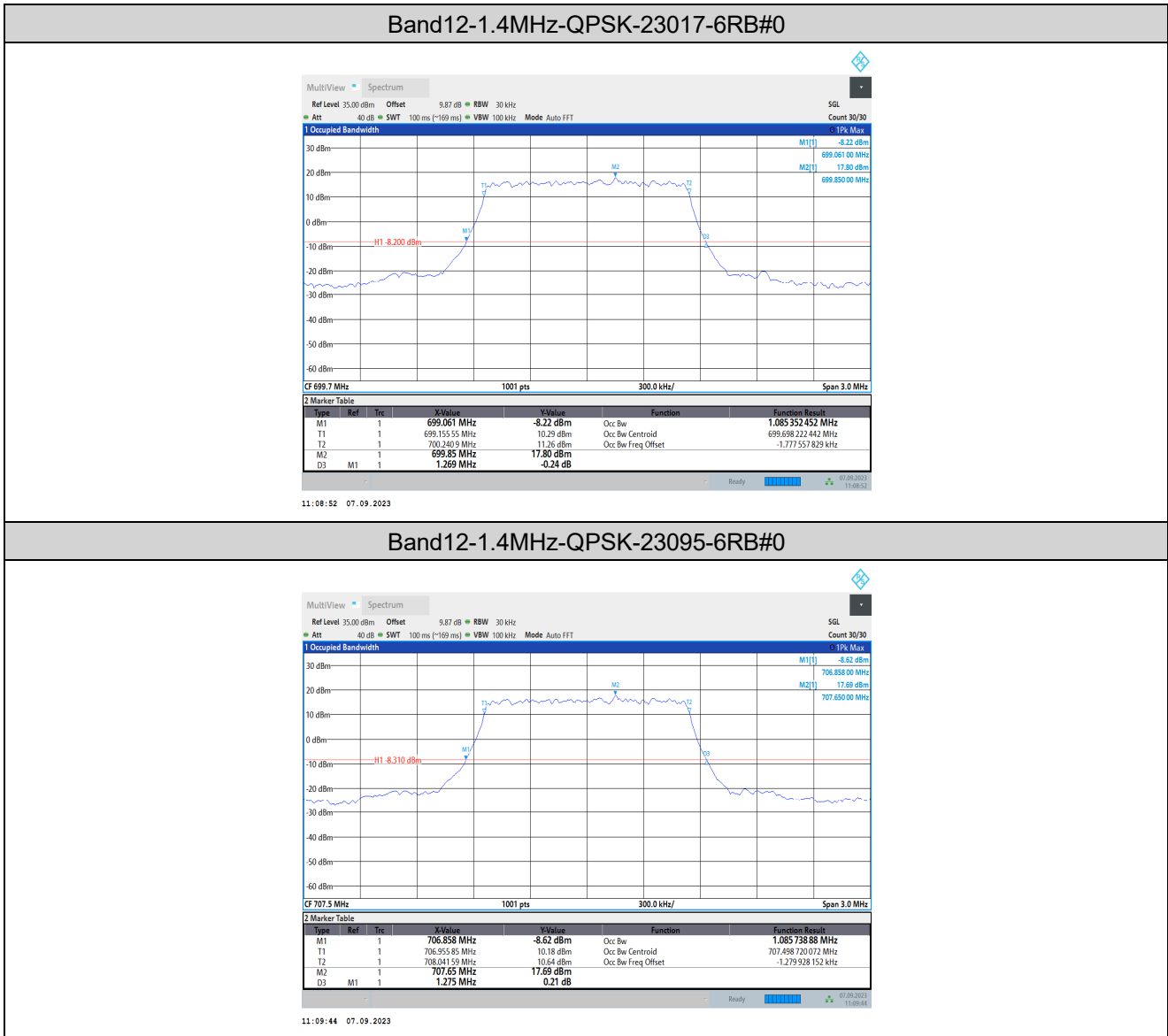
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Test Graphs

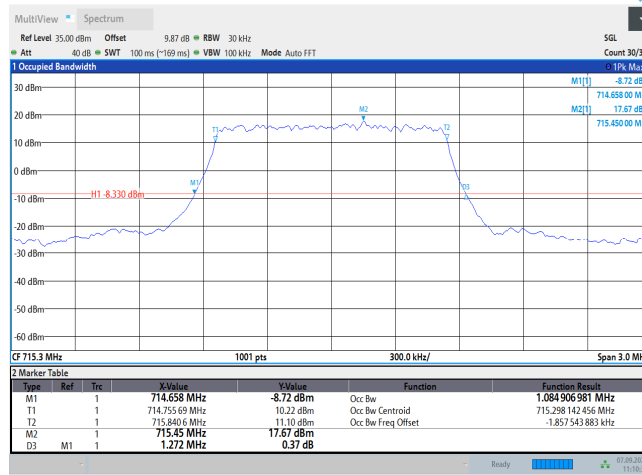


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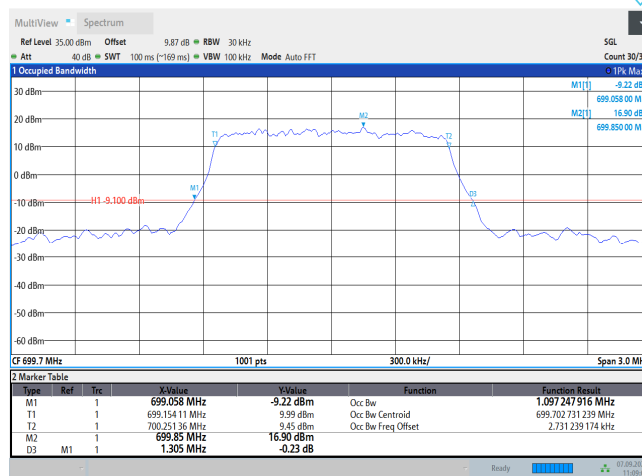
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Band12-1.4MHz-QPSK-23173-6RB#0



11:10:36 07.09.2023

Band12-1.4MHz-16QAM-23017-6RB#0



11:09:09 07.09.2023



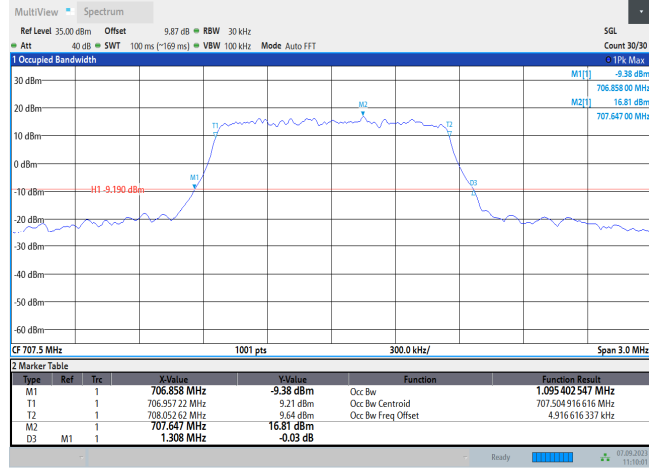
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Band12-1.4MHz-16QAM-23095-6RB#0



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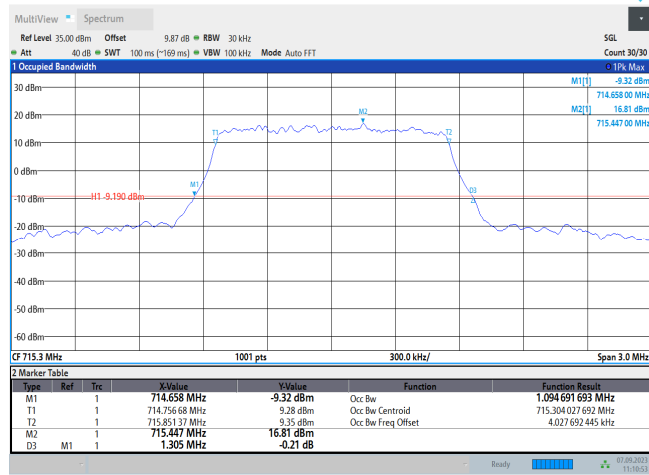


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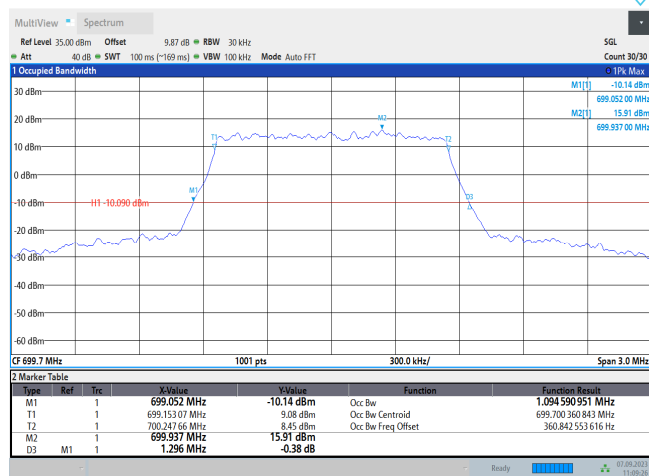
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Band12-1.4MHz-16QAM-23173-6RB#0



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Band12-1.4MHz-64QAM-23017-6RB#0



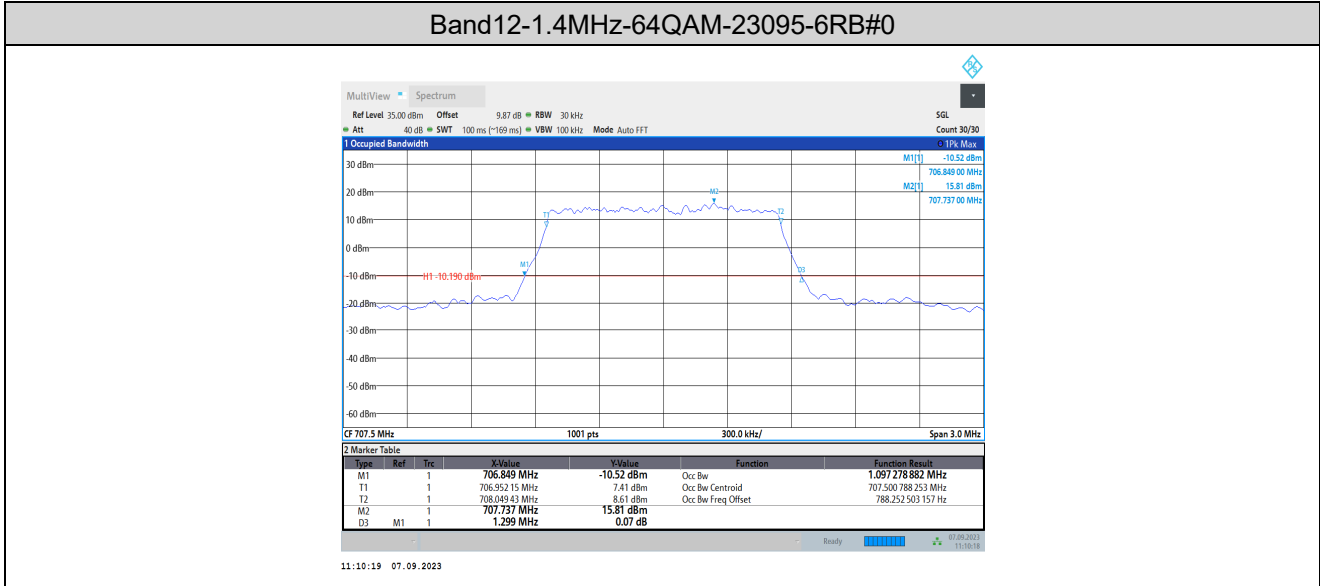
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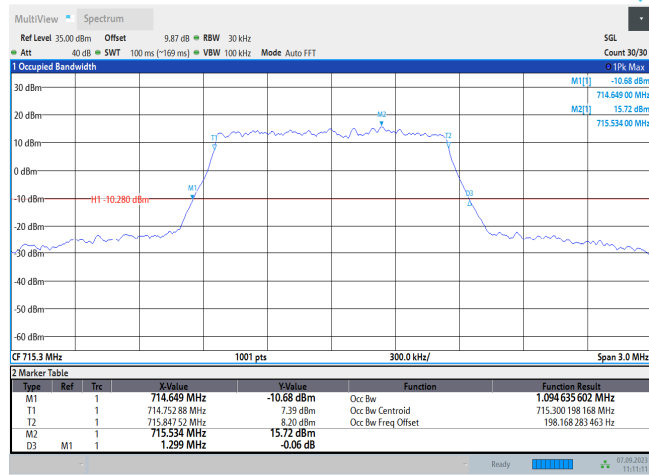


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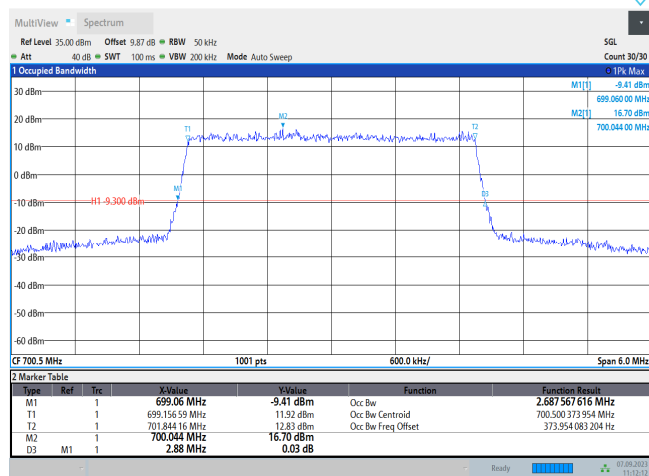
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Band12-1.4MHz-64QAM-23173-6RB#0



11:11:11 07.09.2023

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



11:12:13 07.09.2023



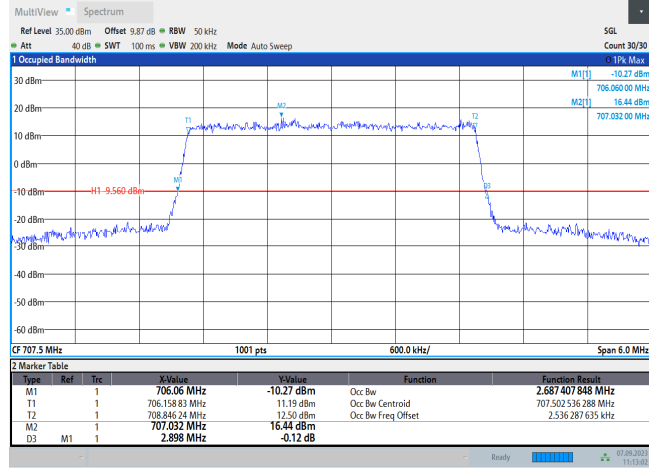
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Band12-3MHz-QPSK-23095-15RB#0



11:13:02 07-09-2023

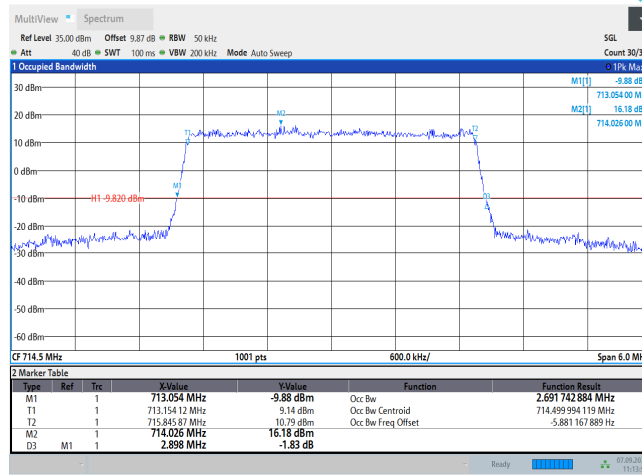


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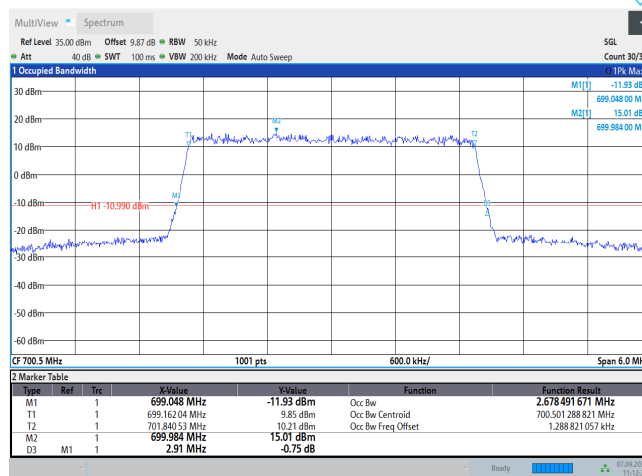
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Band12-3MHz-QPSK-23165-15RB#0



11:13:51 07.09.2023

Band12-3MHz-16QAM-23025-15RB#0



11:12:29 07.09.2023



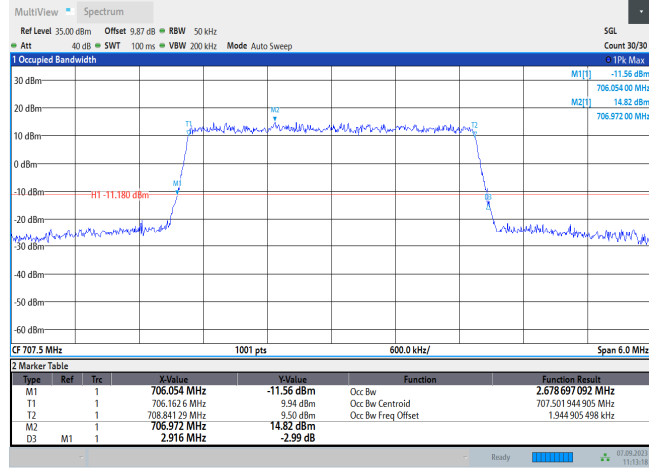
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Band12-3MHz-16QAM-23095-15RB#0



11:13:18 07-09-2023



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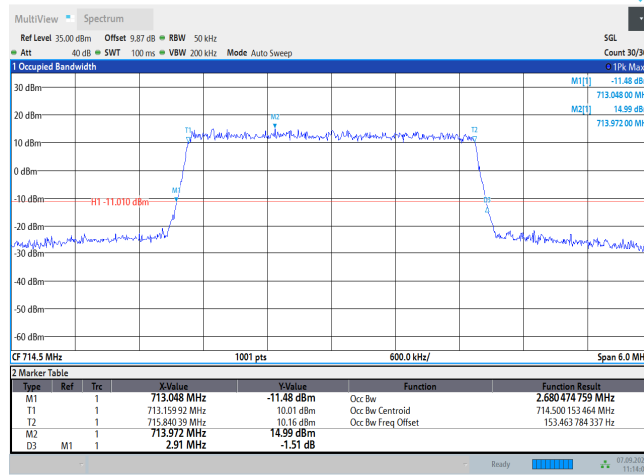
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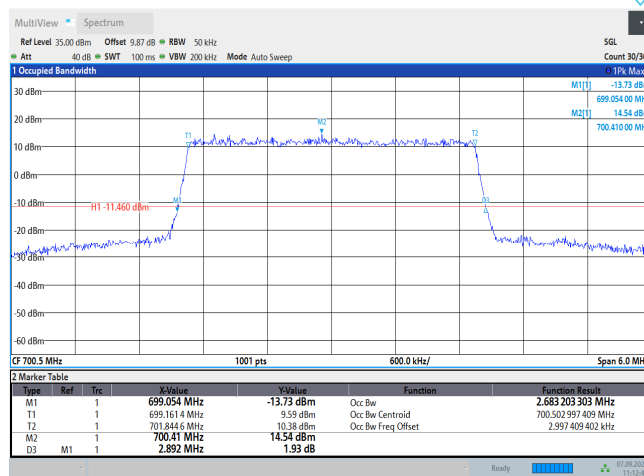
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Band12-3MHz-16QAM-23165-15RB#0



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Band12-3MHz-64QAM-23025-15RB#0



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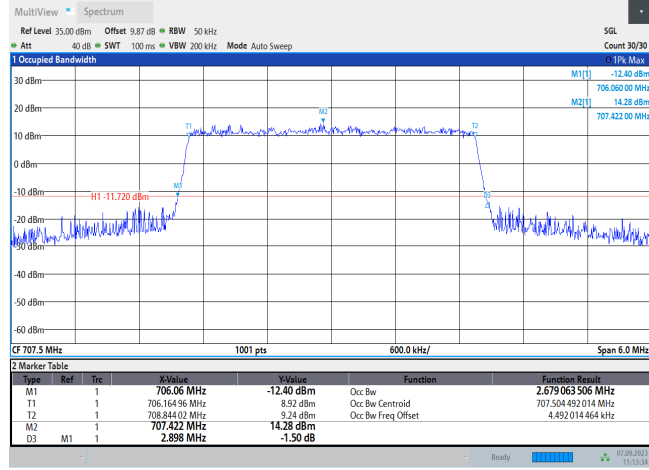


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Band12-3MHz-64QAM-23095-15RB#0



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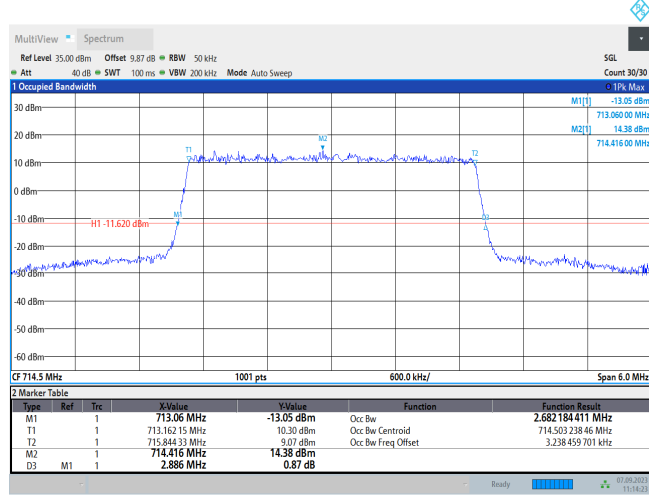
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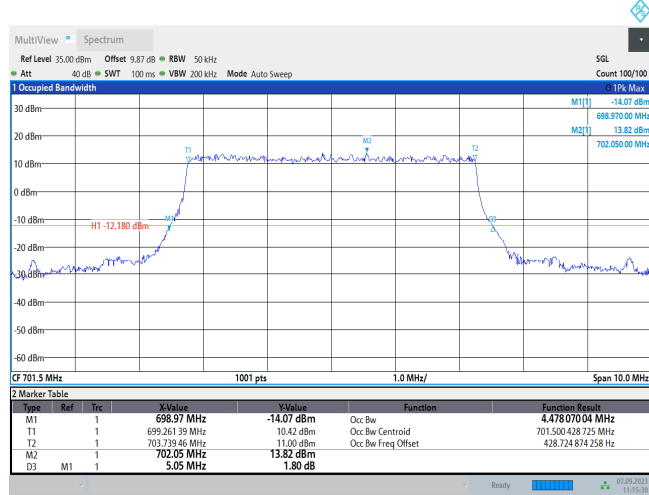
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Band12-3MHz-64QAM-23165-15RB#0



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



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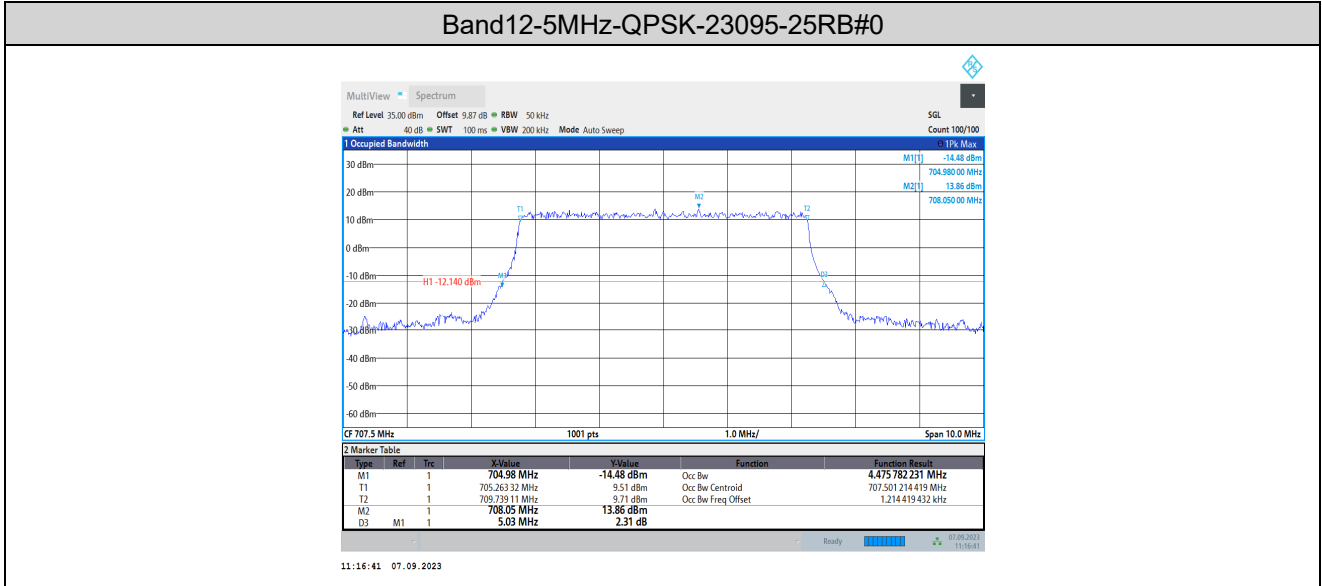


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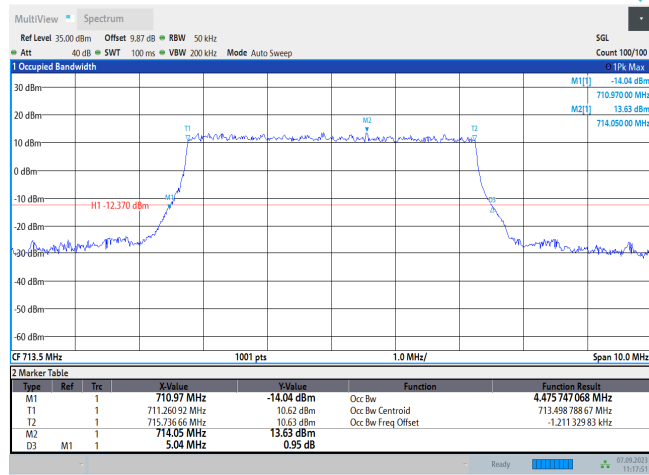


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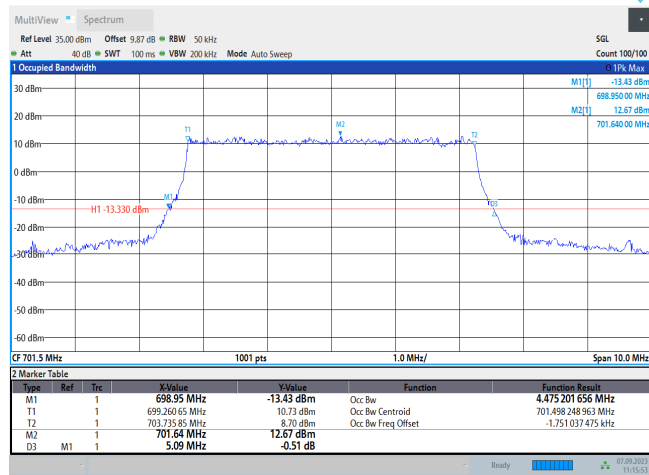
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Band12-5MHz-QPSK-23155-25RB#0



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



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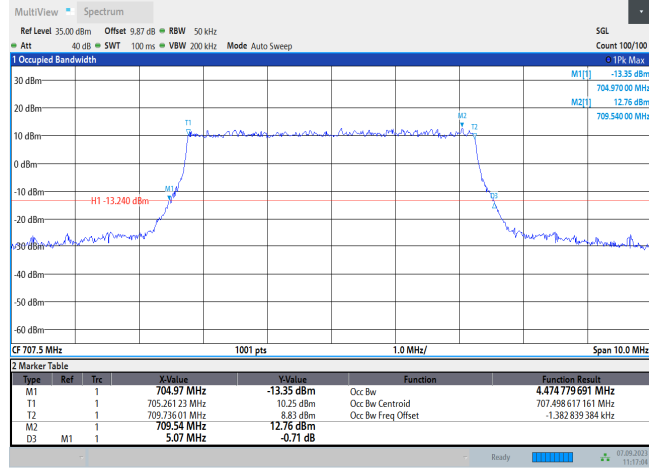


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Band12-5MHz-16QAM-23095-25RB#0



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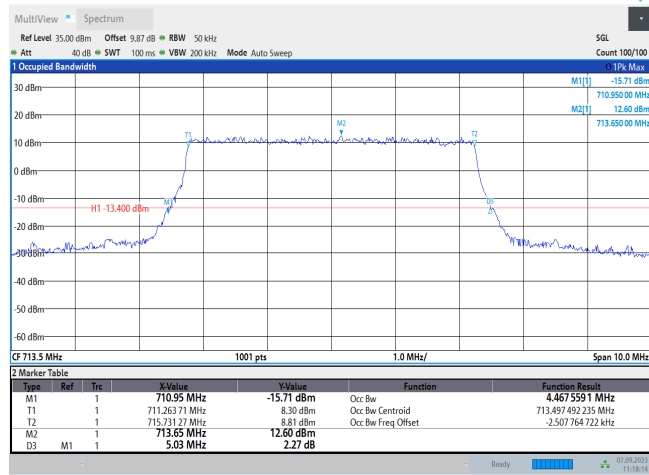


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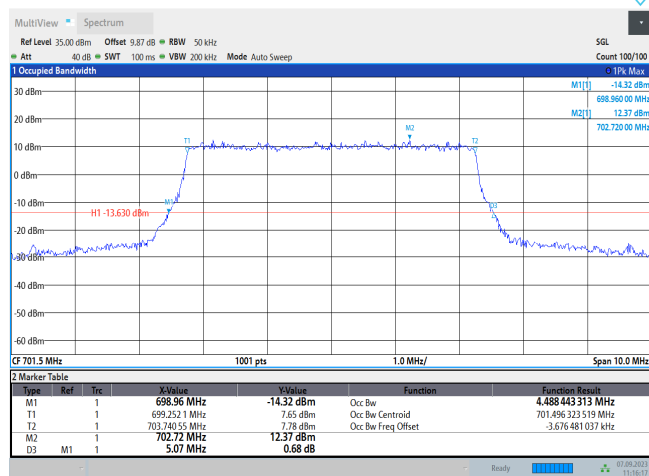
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Band12-5MHz-16QAM-23155-25RB#0



11:18:15 07.09.2023

Band12-5MHz-64QAM-23035-25RB#0



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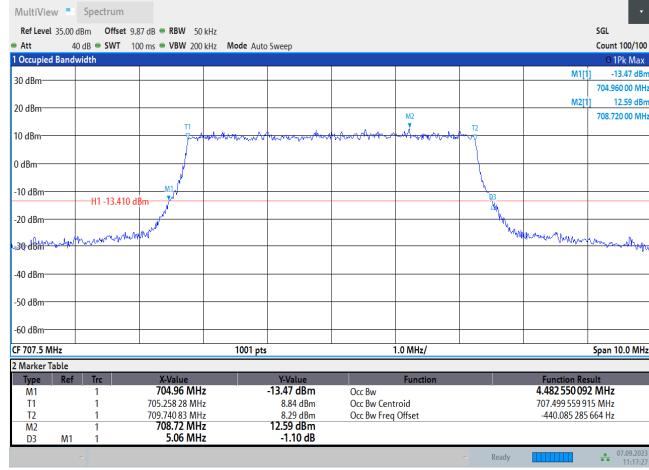


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Band12-5MHz-64QAM-23095-25RB#0



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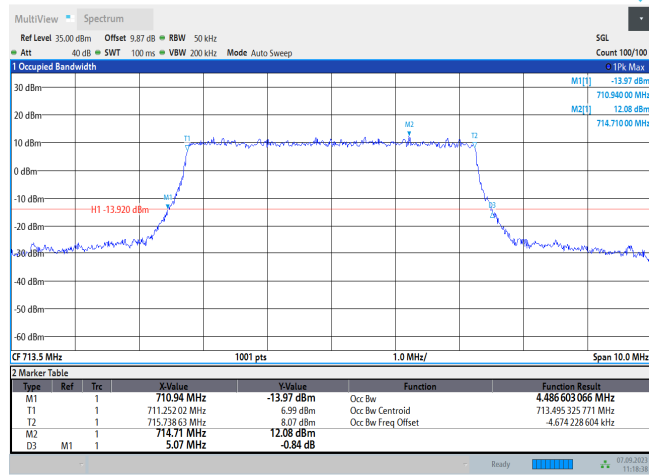


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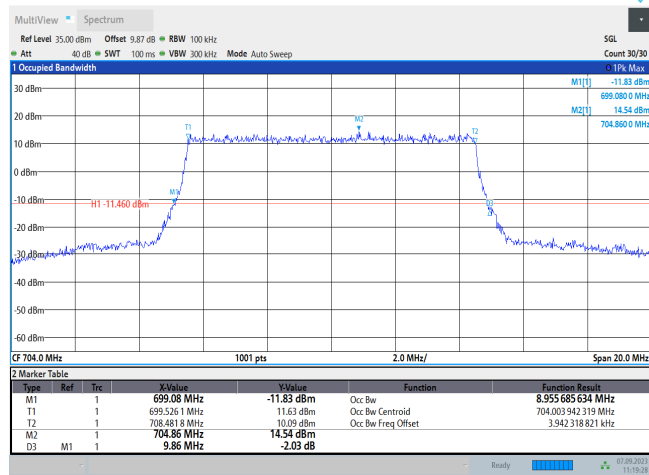
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Band12-10MHz-QPSK-23060-50RB#0



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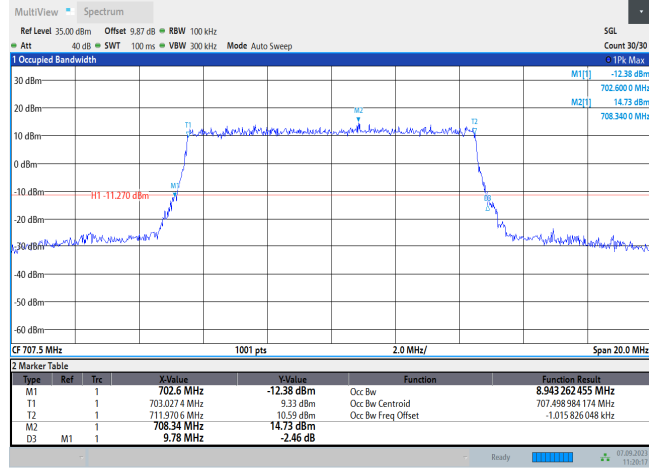


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Band12-10MHz-QPSK-23095-50RB#0



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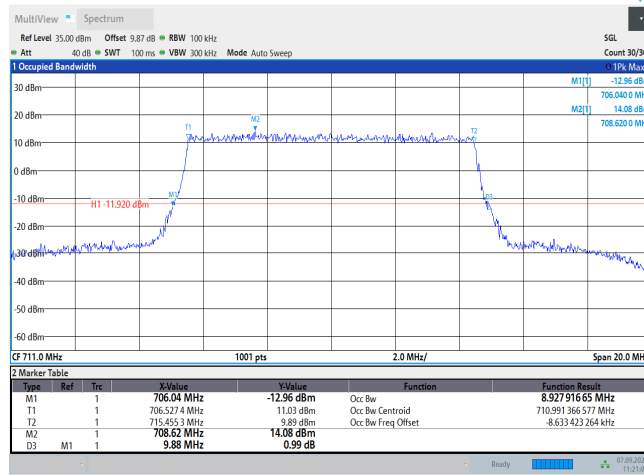


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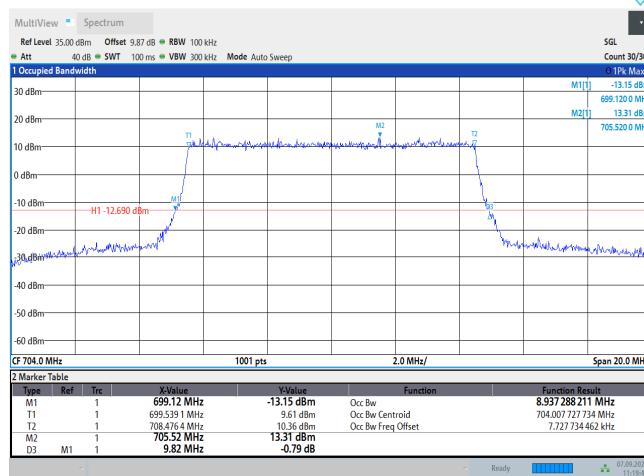
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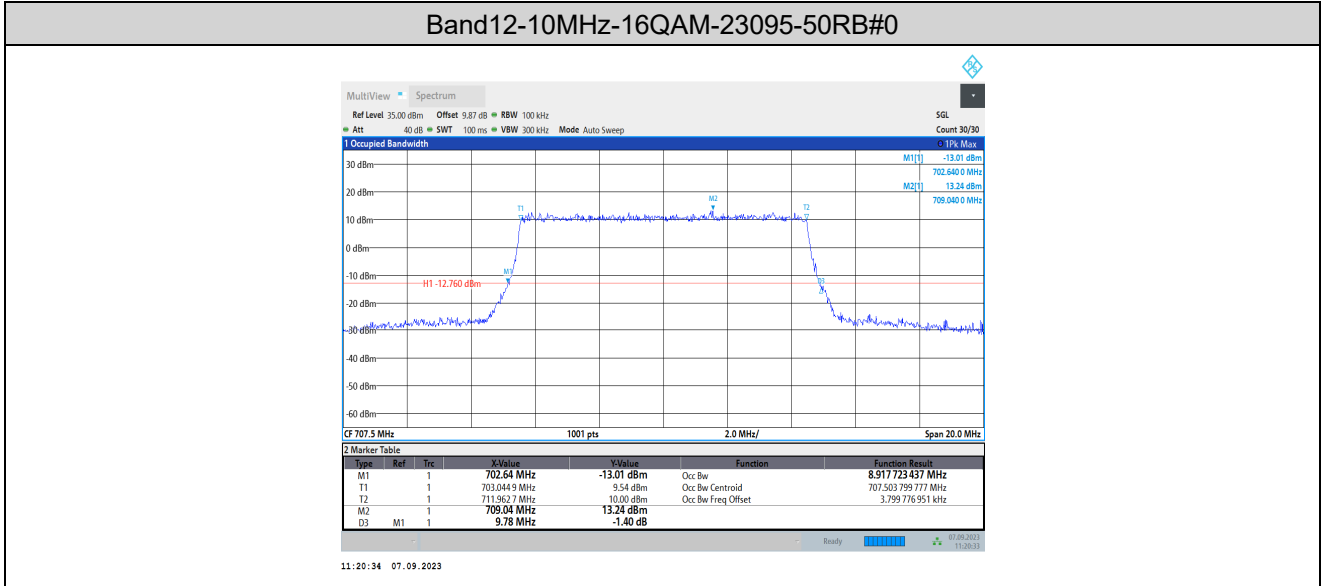
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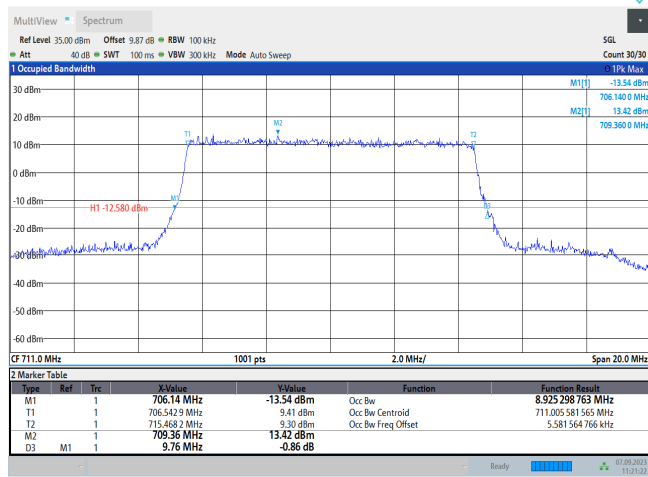


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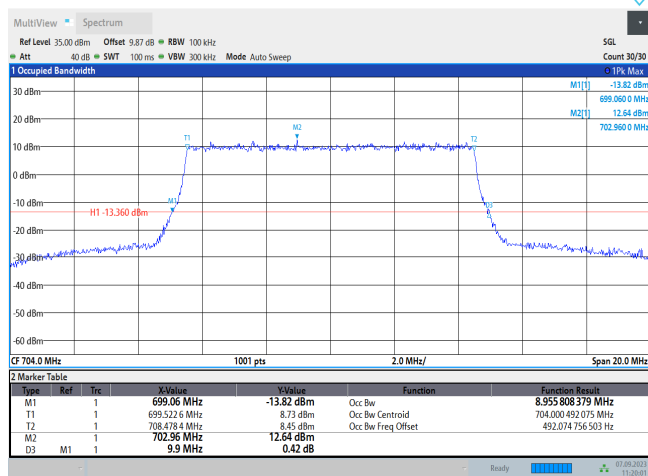
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Band12-10MHz-16QAM-23130-50RB#0



11:21:23 07.09.2023

Band12-10MHz-64QAM-23060-50RB#0

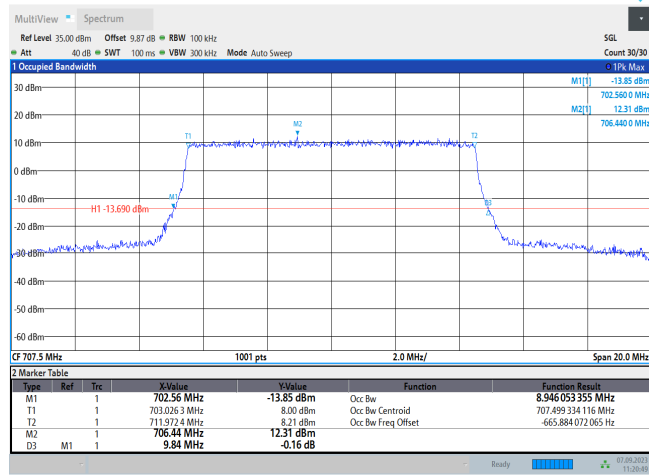


11:20:01 07.09.2023



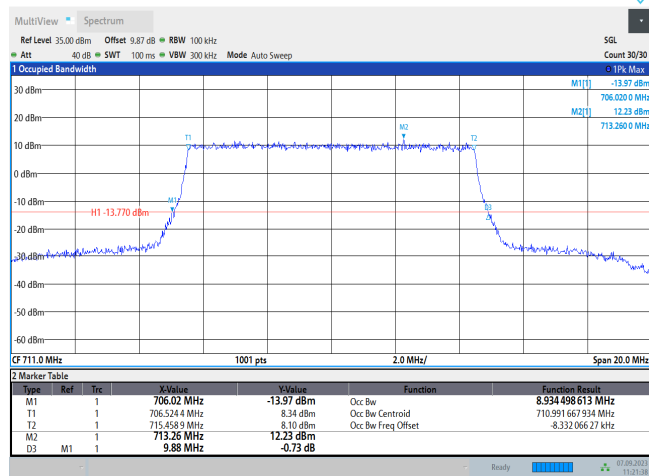
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Band12-10MHz-64QAM-23095-50RB#0



11:20:50 07.09.2023

Band12-10MHz-64QAM-23130-50RB#0



11:21:39 07.09.2023



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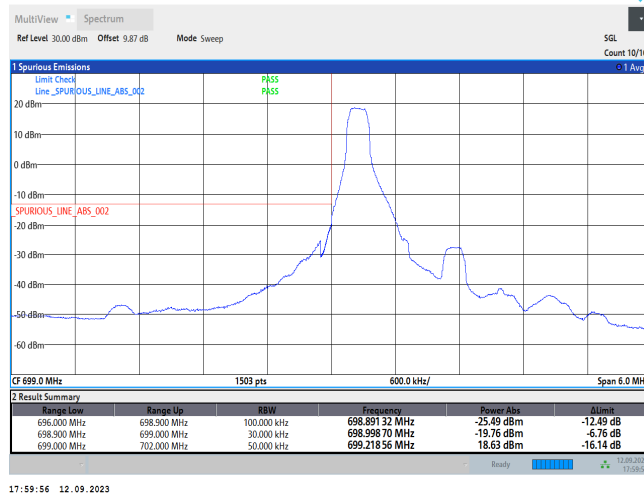
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Band Edge

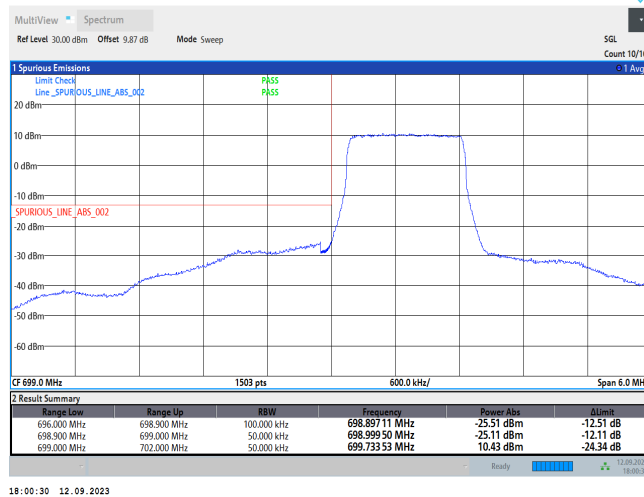
Test Graphs

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



17:59:56 12.09.2023

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



18:00:30 12.09.2023

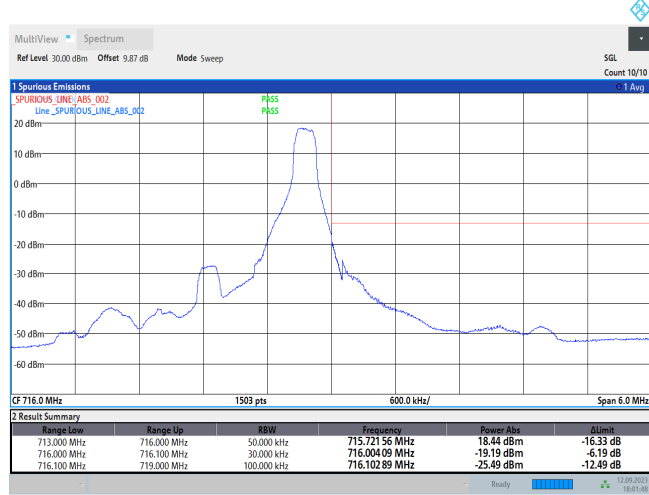


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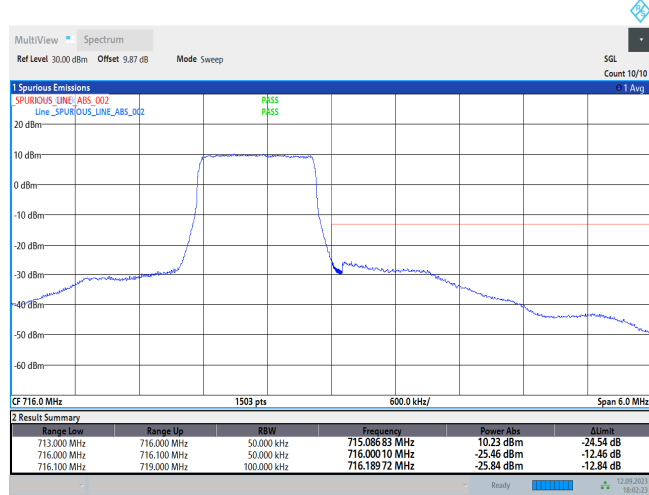
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Band12-1.4MHz-QPSK-23173-1RB#5



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

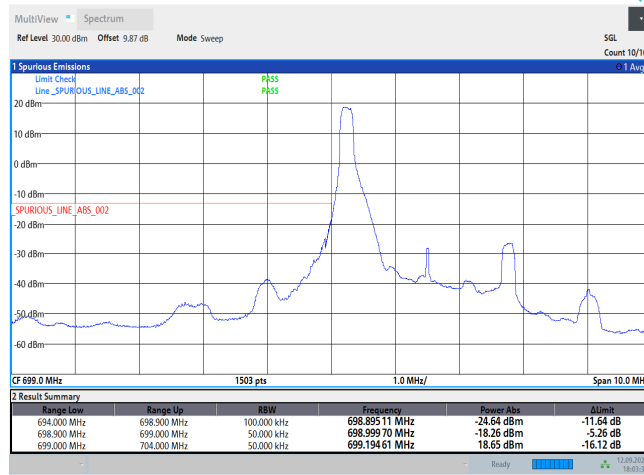


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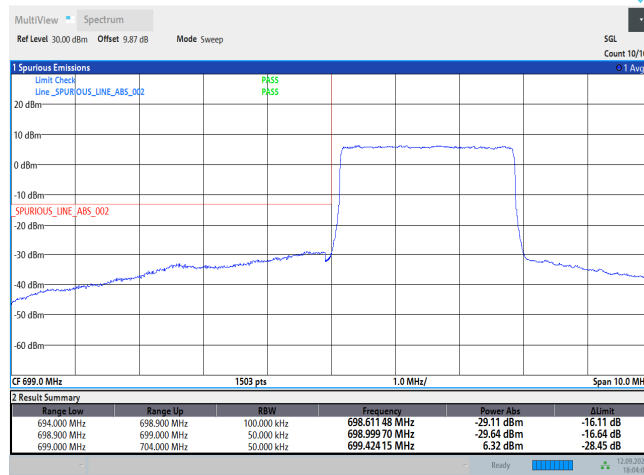
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Band12-3MHz-QPSK-23025-1RB#0



18:03:33 12.09.2023

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



18:04:08 12.09.2023

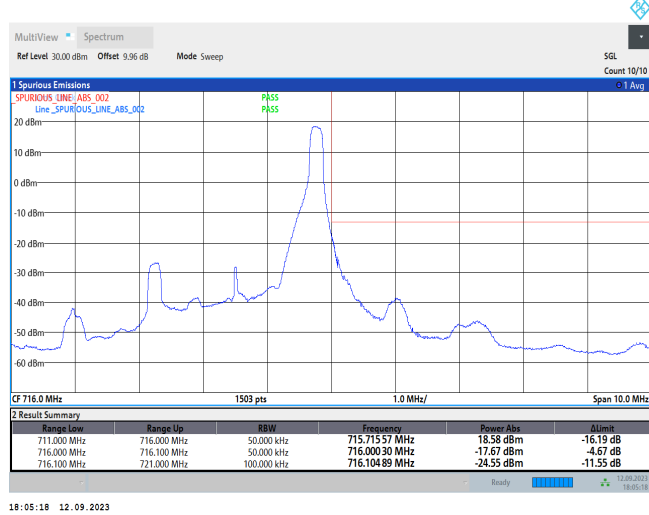


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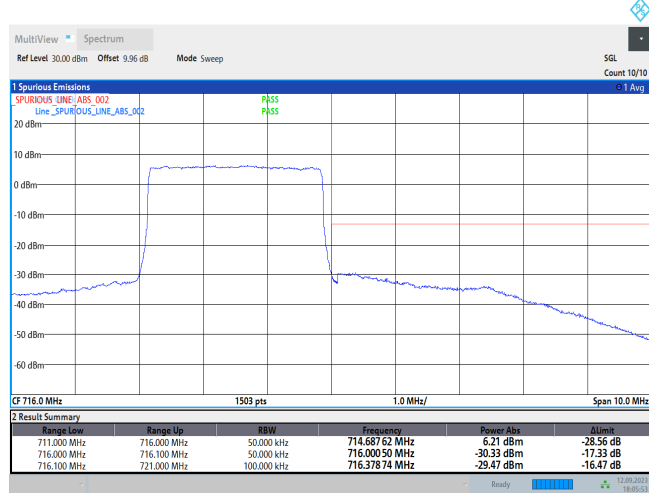
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Band12-3MHz-QPSK-23165-1RB#14



18:05:18 12.09.2023

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



18:05:54 12.09.2023

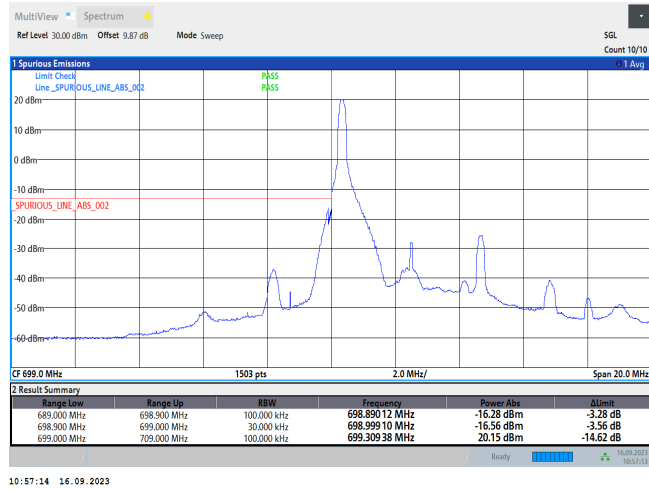


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Band12-5MHz-QPSK-23035-1RB#0



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

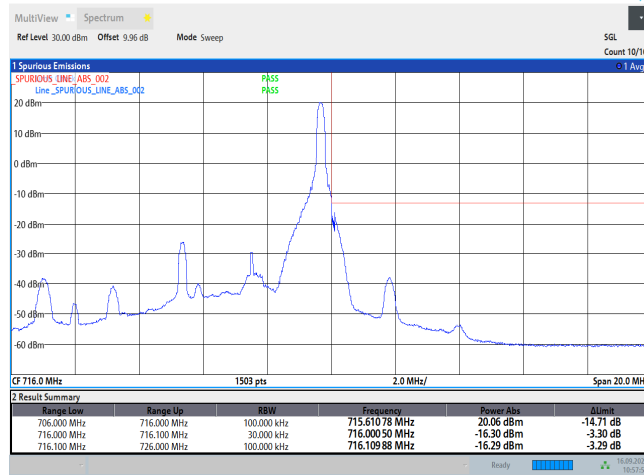


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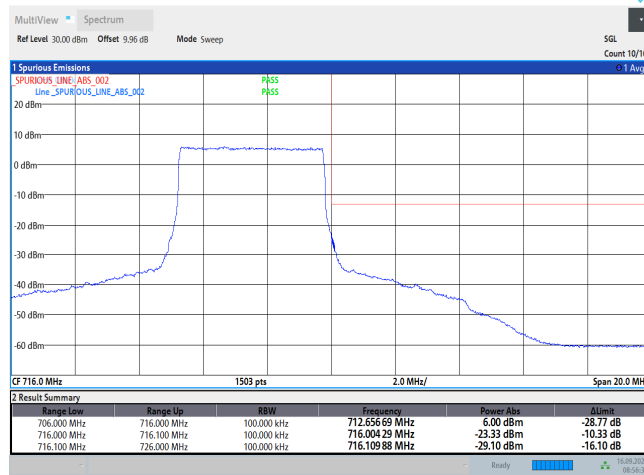
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Band12-5MHz-QPSK-23155-1RB#24



10:57:59 16. 09. 2023

Band12-5MHz-QPSK-23155-25RB#0



08:56:33 16. 09. 2023

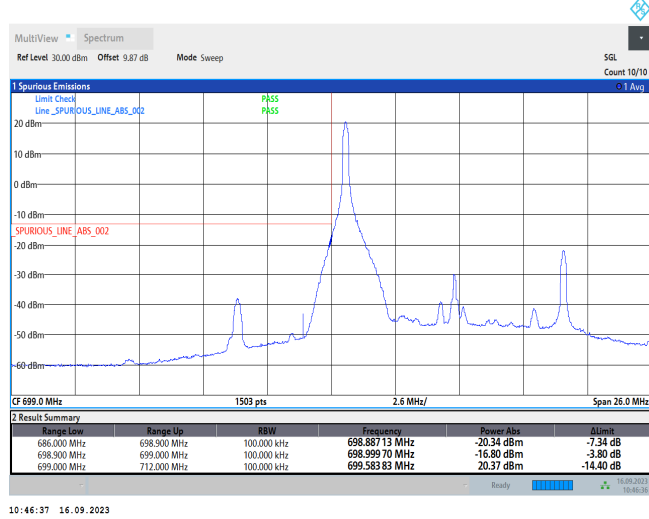


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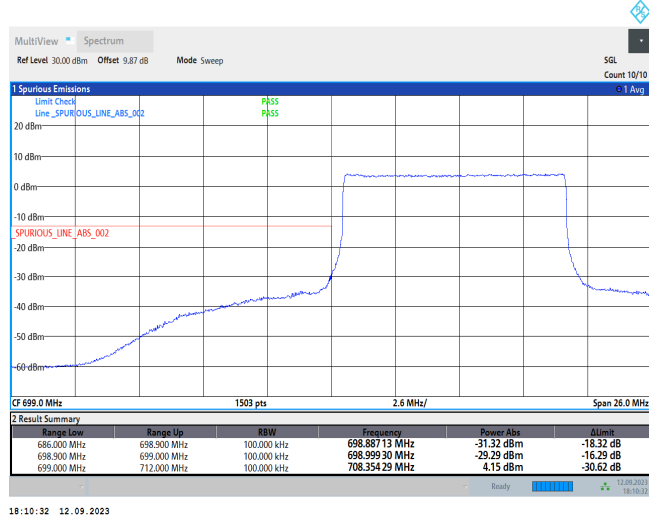
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Band12-10MHz-QPSK-23060-1RB#0



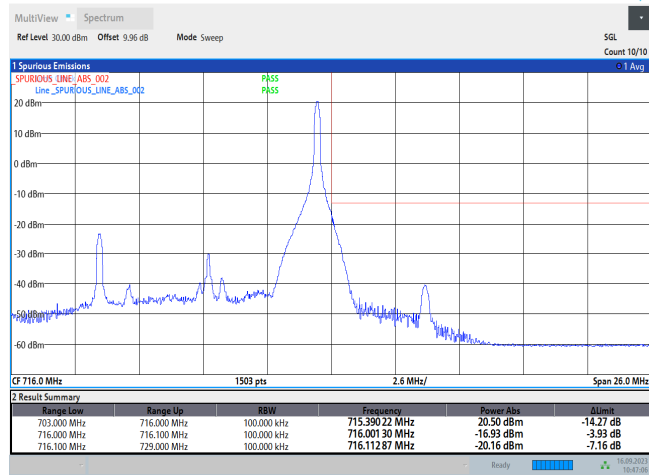
Band12-10MHz-QPSK-23060-50RB#0



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Band12-10MHz-QPSK-23130-1RB#49



10:47:07 16.09.2023

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



18:13:46 12.09.2023



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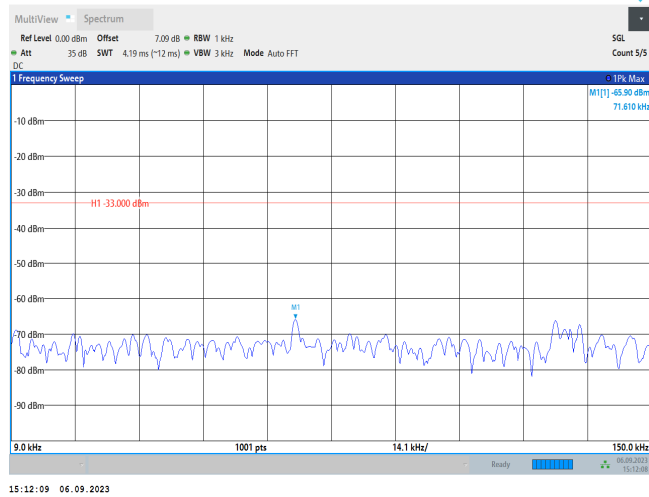
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Conducted Spurious Emission

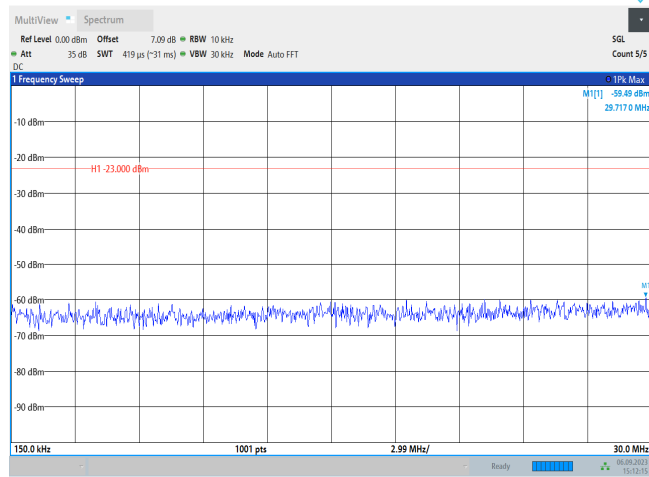
Test Graphs

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



15:12:09 06.09.2023

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



15:12:15 06.09.2023



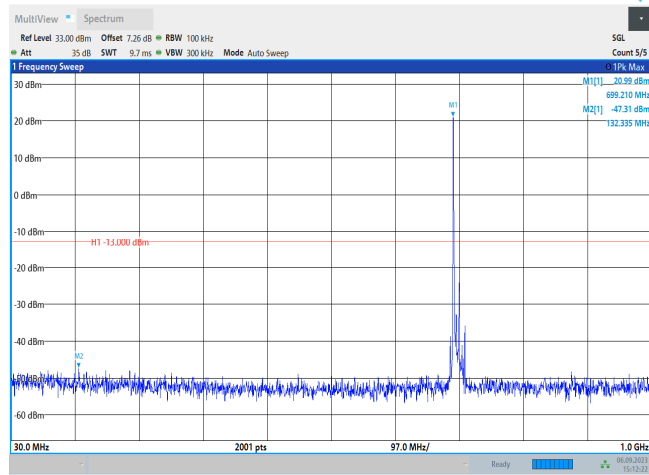
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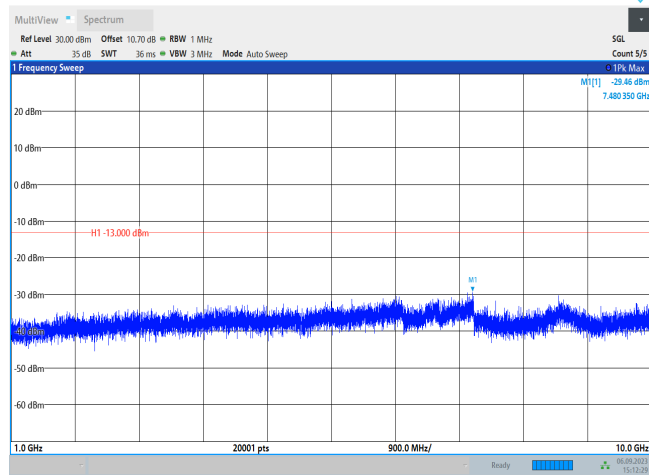
Member of the SGS Group (SGS SA)

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



15:12:23 06.09.2023

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



15:12:30 06.09.2023

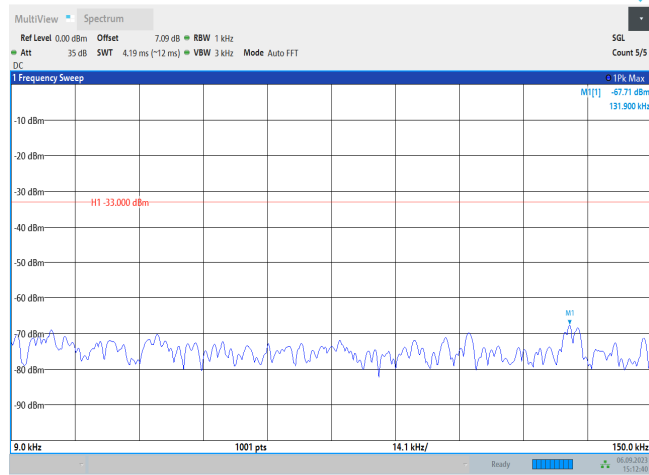


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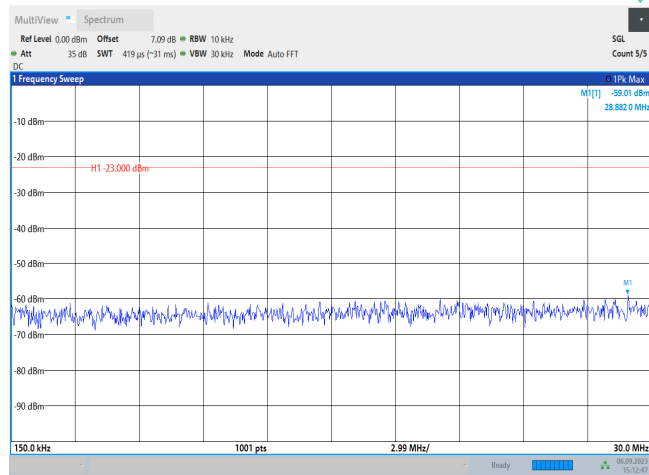
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



15:12:41 06.09.2023

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



15:12:48 06.09.2023

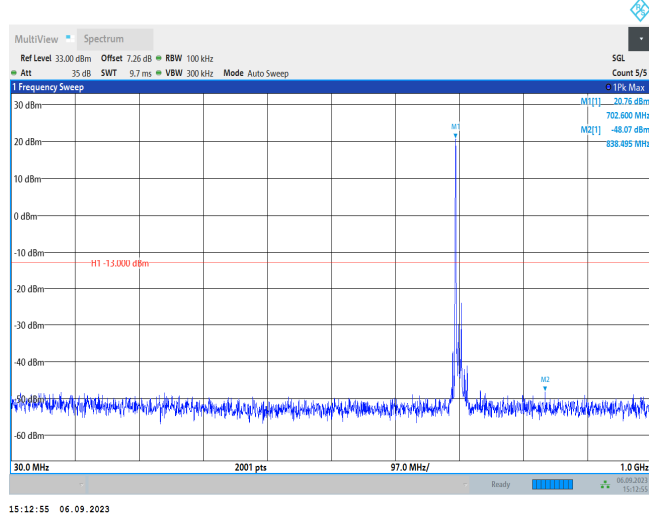


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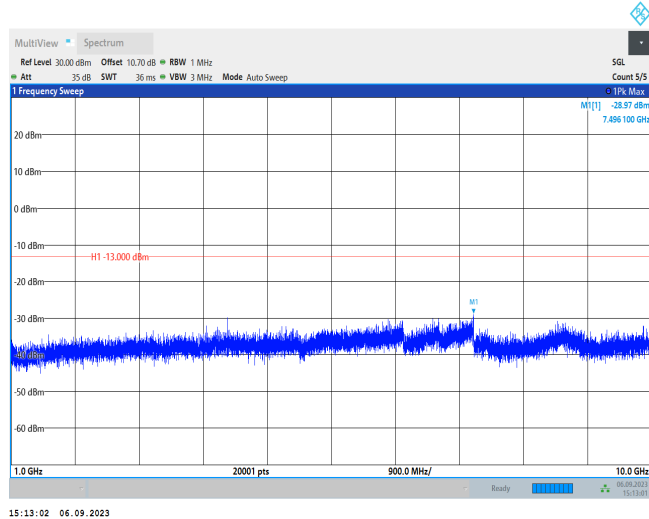
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



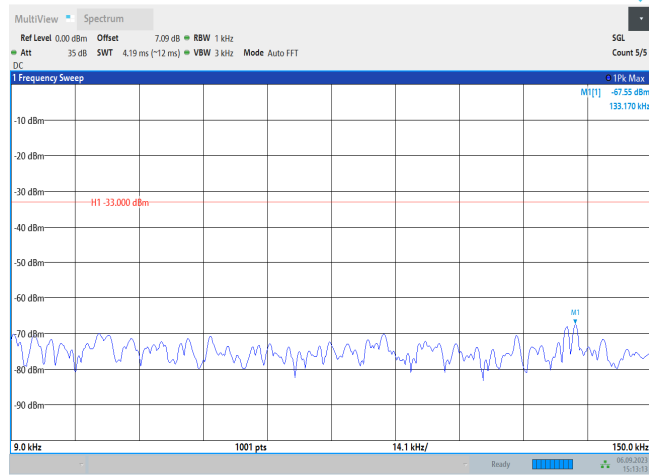
Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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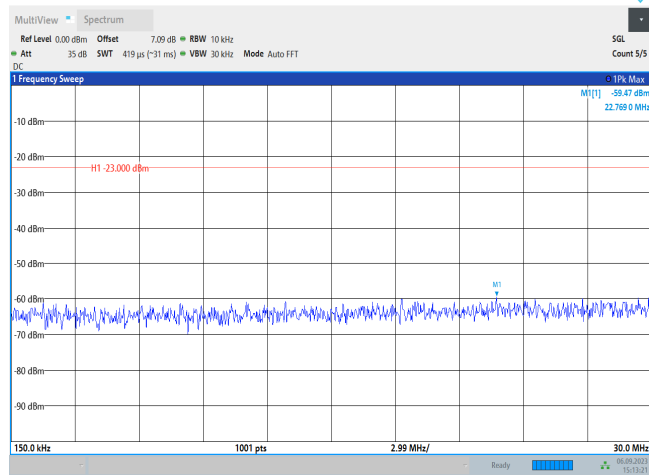
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



15:13:14 06.09.2023

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



15:13:21 06.09.2023

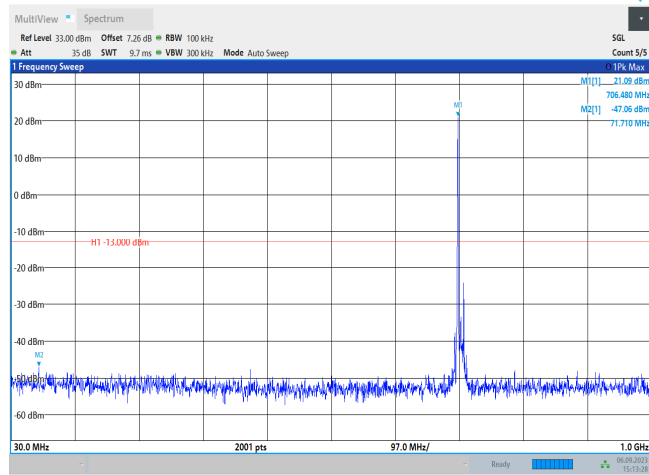


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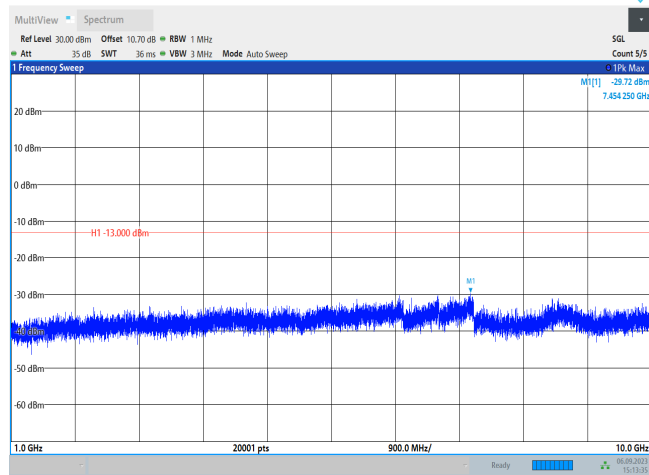
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



15:13:28 06.09.2023

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



15:13:35 06.09.2023



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Field Strength of Spurious Radiation(SKU3):

Test Band = LTE Band 12_ TM1

Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	55.89	-50.00	24.33	-65.04	-13.00	52.04	Horizontal
2	2109.27	71.83	-49.46	26.83	-46.06	-13.00	33.76	Horizontal
3	2812.36	44.89	-48.69	28.05	-71.01	-13.00	58.01	Horizontal
4	3515.45	48.16	-48.44	28.72	-66.82	-13.00	53.82	Horizontal
5	4218.54	43.95	-48.30	29.79	-69.81	-13.00	56.81	Horizontal
6	4921.63	43.58	-48.12	31.31	-68.49	-13.00	55.49	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	55.33	-50.00	24.33	-65.60	-13.00	52.60	Vertical
2	2109.27	72.26	-49.46	26.83	-45.63	-13.00	34.63	Vertical
3	2812.36	44.91	-48.69	28.05	-70.99	-13.00	57.99	Vertical
4	3515.45	47.32	-48.44	28.72	-67.66	-13.00	54.66	Vertical
5	4218.54	43.60	-48.30	29.79	-70.16	-13.00	57.16	Vertical
6	4921.63	43.83	-48.12	31.31	-68.24	-13.00	55.24	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)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-10.39	-0.014686	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-9.01	-0.012735	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-8.90	-0.012580	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-8.28	-0.011703	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-7.57	-0.010700	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-11.93	-0.016862	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-9.73	-0.013753	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-7.60	-0.010742	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.36	-0.003336	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-6.52	-0.009216	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-7.90	-0.011166	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-11.10	-0.015689	PASS

---End of Attachment---



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