

# Appendix B.7

## 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	22.67	20.2	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.81	20.34	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.79	20.32	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.86	19.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.71	20.24	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.8	20.33	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.8	20.33	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.88	19.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.65	20.18	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.7	20.23	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.68	20.21	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.73	19.26	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.07	19.6	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.13	19.66	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.18	19.71	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.95	18.48	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.03	19.56	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.04	19.57	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.05	19.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.94	18.47	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.04	19.57	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.07	19.6	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22	19.53	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.84	18.37	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.01	18.54	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.08	18.61	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.03	18.56	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	19.83	17.36	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.02	18.55	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.07	18.6	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21	18.53	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.9	17.43	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.88	18.41	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.92	18.45	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.8	18.33	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.79	17.32	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.84	20.37	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.93	20.46	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.81	20.34	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.87	19.4	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.81	20.34	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.89	20.42	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.78	20.31	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.95	19.48	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.72	20.25	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.85	20.38	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.74	20.27	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.85	19.38	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.11	19.64	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.3	19.83	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.2	19.73	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.98	18.51	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.13	19.66	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.24	19.77	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.16	19.69	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.91	18.44	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.09	19.62	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.24	19.77	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.12	19.65	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	20.78	18.31	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.07	18.6	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.19	18.72	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.14	18.67	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.96	17.49	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.05	18.58	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.15	18.68	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.07	18.6	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.95	17.48	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.02	18.55	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.05	18.58	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.92	18.45	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.81	17.34	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.8	20.33	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.87	20.4	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.81	20.34	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.89	19.42	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.83	20.36	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.9	20.43	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.8	20.33	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.91	19.44	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.78	20.31	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.84	20.37	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.79	20.32	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.8	19.33	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.16	19.69	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.17	19.7	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.1	19.63	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.99	18.52	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.1	19.63	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.21	19.74	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.09	19.62	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	20.91	18.44	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.11	19.64	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.13	19.66	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.02	19.55	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.8	18.33	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.12	18.65	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.1	18.63	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.14	18.67	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20	17.53	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.06	18.59	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.08	18.61	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21	18.53	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.96	17.49	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.99	18.52	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.05	18.58	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.96	18.49	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.83	17.36	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.8	20.33	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.7	20.23	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.86	20.39	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.88	19.41	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.82	20.35	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.93	20.46	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.77	20.3	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.83	19.36	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.87	20.4	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.83	20.36	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.75	20.28	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.93	19.46	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.15	19.68	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.17	19.7	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.2	19.73	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	20.88	18.41	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.15	19.68	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.33	19.86	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.04	19.57	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.86	18.39	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.26	19.79	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.2	19.73	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.01	19.54	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.9	18.43	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.15	18.68	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.22	18.75	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21	18.53	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.97	17.5	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.11	18.64	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.97	18.5	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.82	18.35	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.88	17.41	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.04	18.57	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.14	18.67	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.99	18.52	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.87	17.4	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	5.38	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.44	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.26	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.06	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.04	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.04	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.58	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.58	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.48	13	PASS

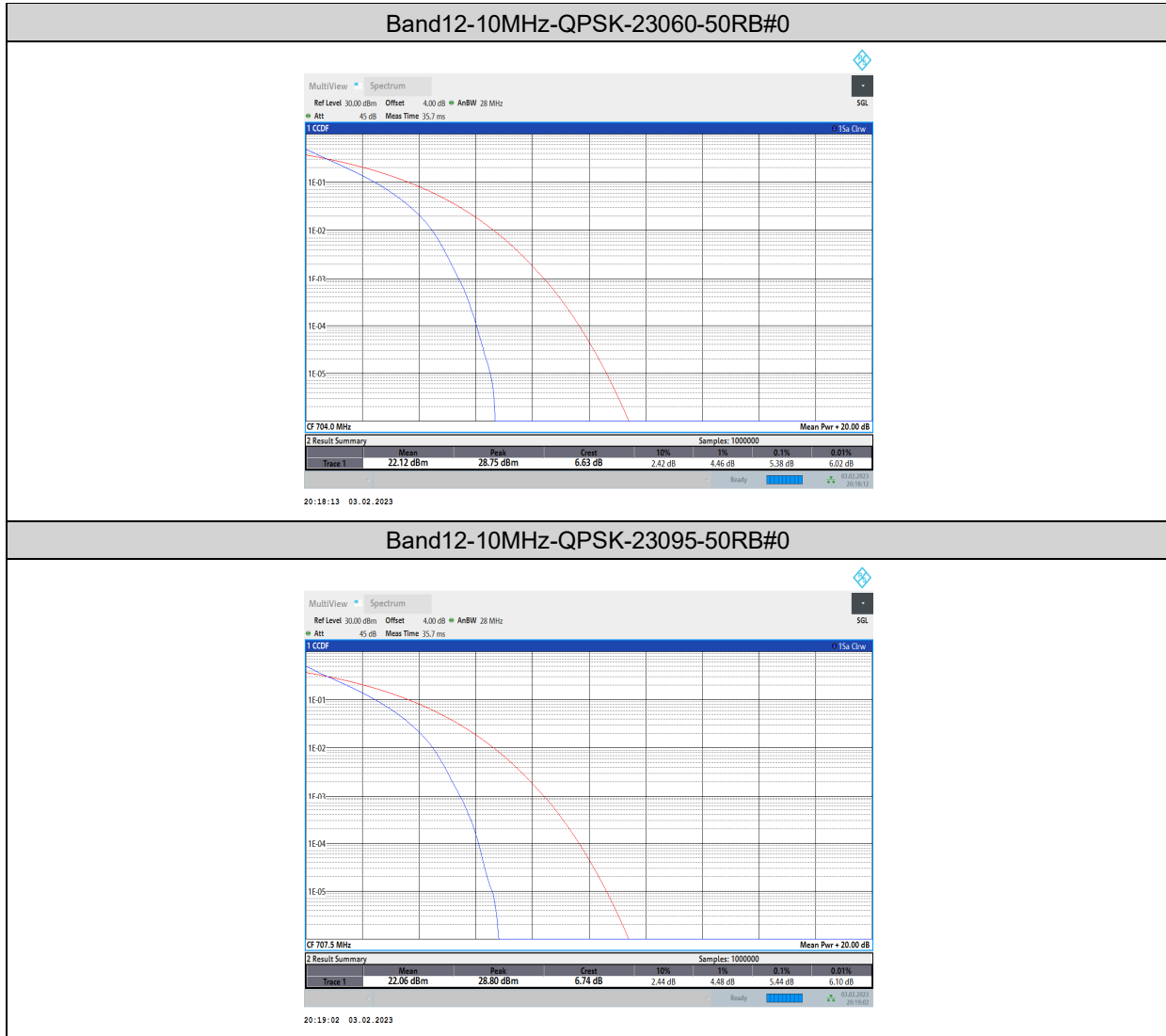


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Test Graphs



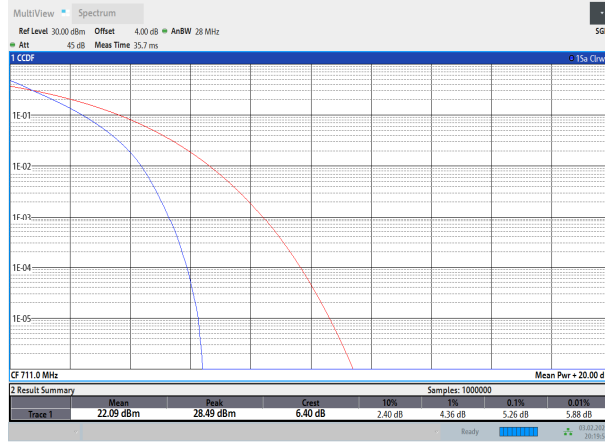
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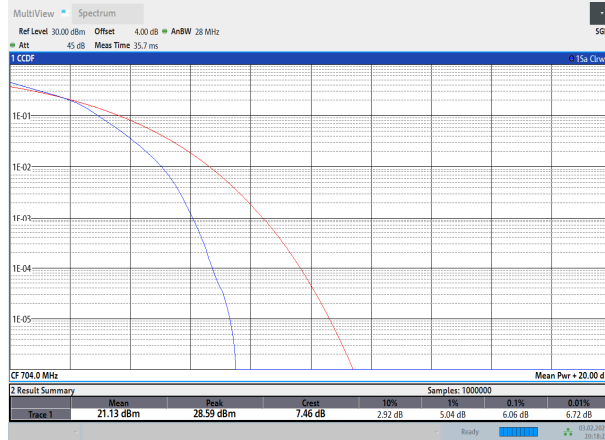


Band12-10MHz-QPSK-23130-50RB#0



20:19:51 03.02.2023

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



20:18:29 03.02.2023

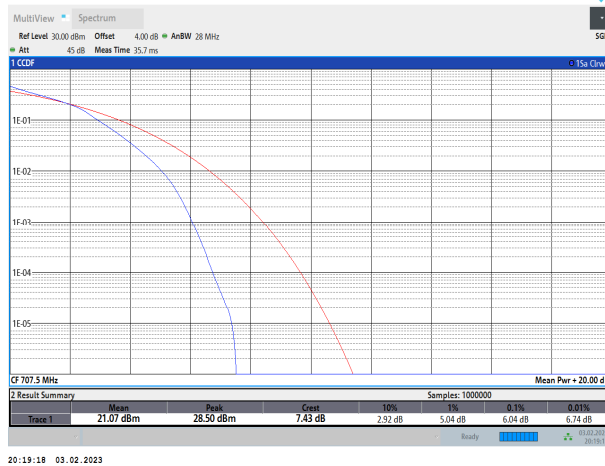


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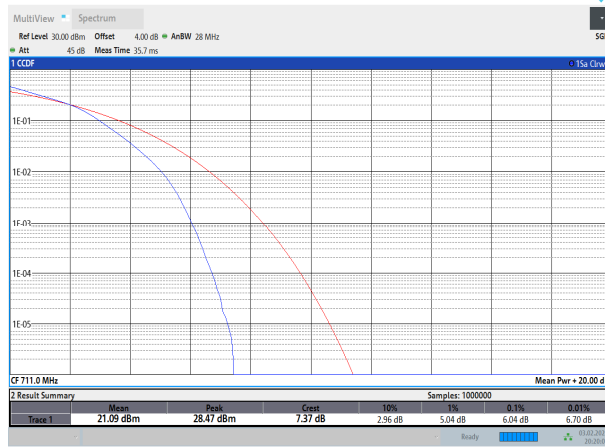
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Band12-10MHz-16QAM-23095-50RB#0



20:19:18 03.02.2023

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



20:20:07 03.02.2023

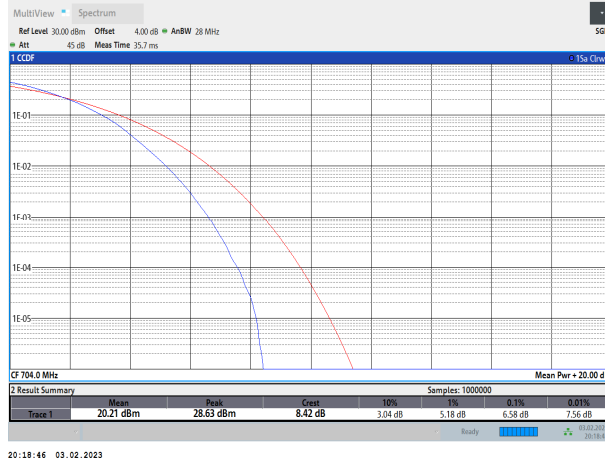


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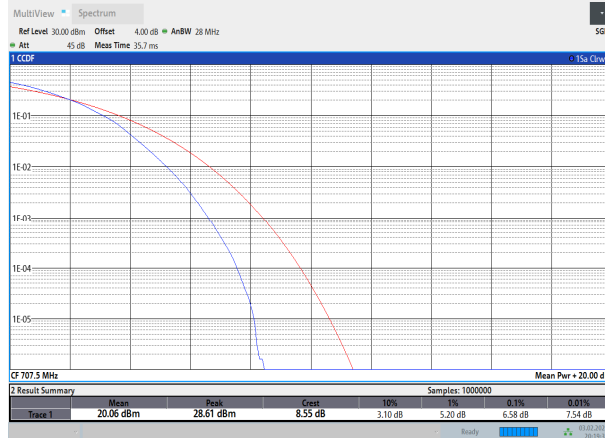
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Band12-10MHz-64QAM-23060-50RB#0



20:18:46 03.02.2023

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



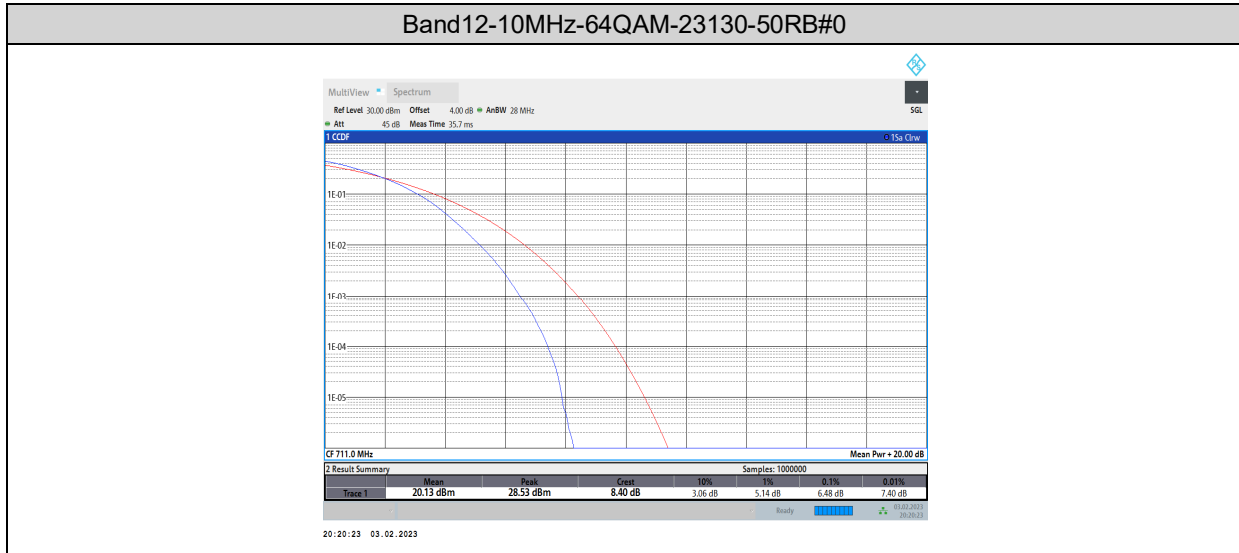
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.09	1.24	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.09	1.24	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.09	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.69	2.97	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.693	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.686	2.99	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.682	2.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.687	2.99	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.688	2.96	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.686	2.97	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.688	2.98	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.467	4.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.464	4.89	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.468	4.87	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.467	4.90	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.464	4.87	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.464	4.91	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.477	4.89	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.478	4.90	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.478	4.91	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.917	9.64	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.923	9.72	PASS



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Report No.: SEWA2211000080RG01

Rev.: 01

Page: 14 of 50

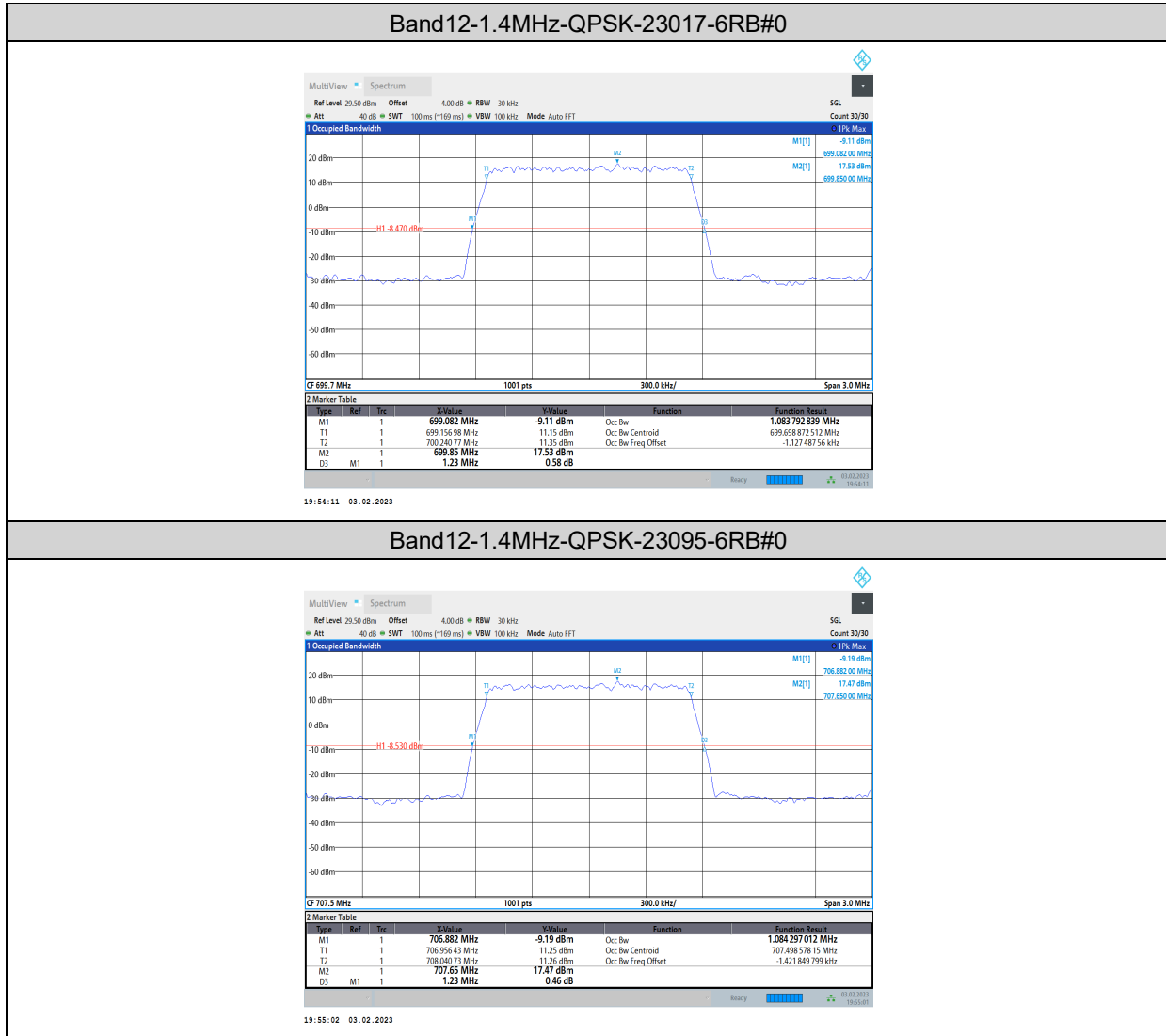
Band12	10MHz	QPSK	23130	50RB#0	8.923	9.62	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.905	9.62	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.912	9.68	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.901	9.58	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.925	9.62	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.923	9.62	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.915	9.64	PASS



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Test Graphs

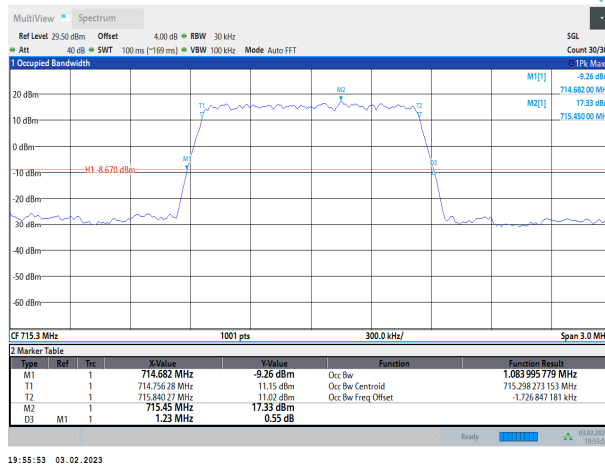


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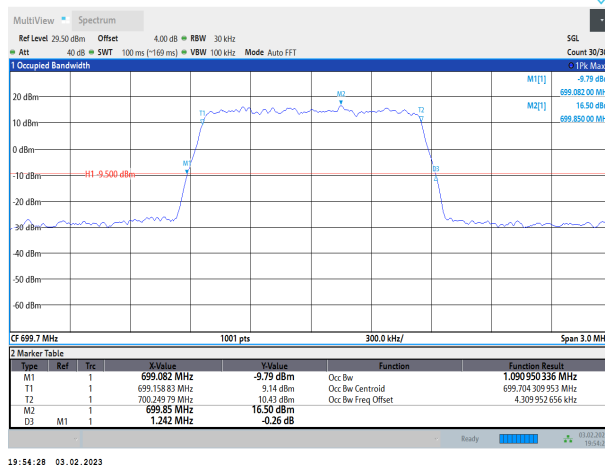
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Band12-1.4MHz-QPSK-23173-6RB#0



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



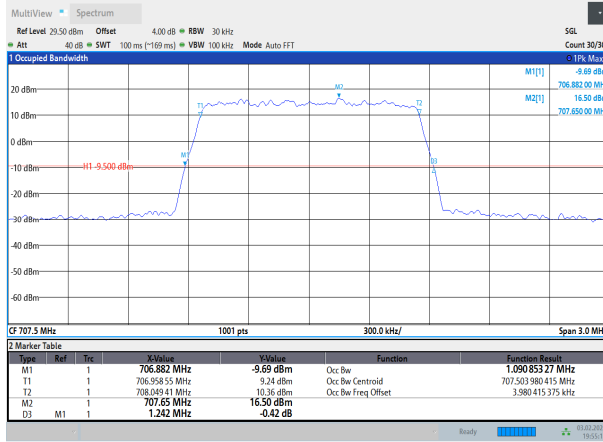
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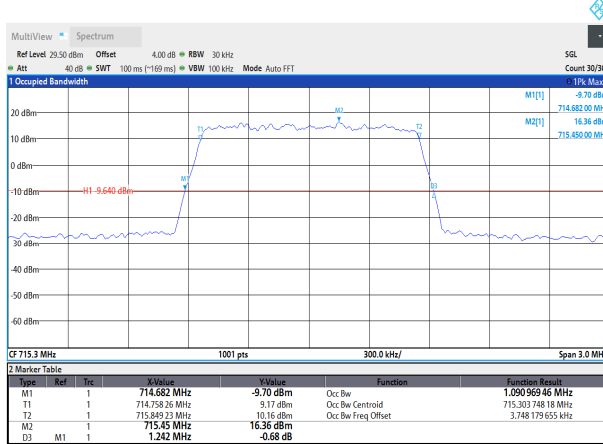


Band12-1.4MHz-16QAM-23095-6RB#0



19:55:19 03.02.2023

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



19:56:10 03.02.2023

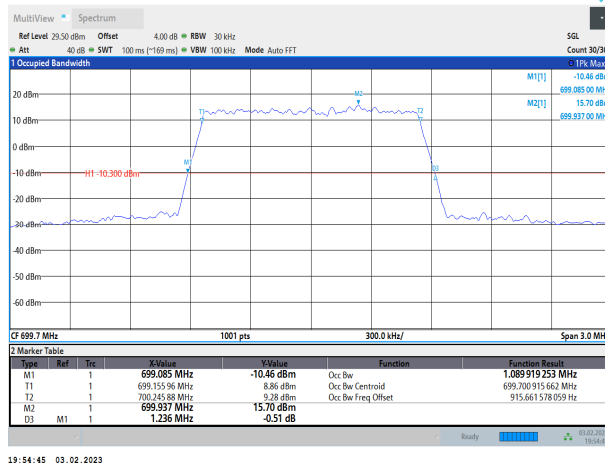


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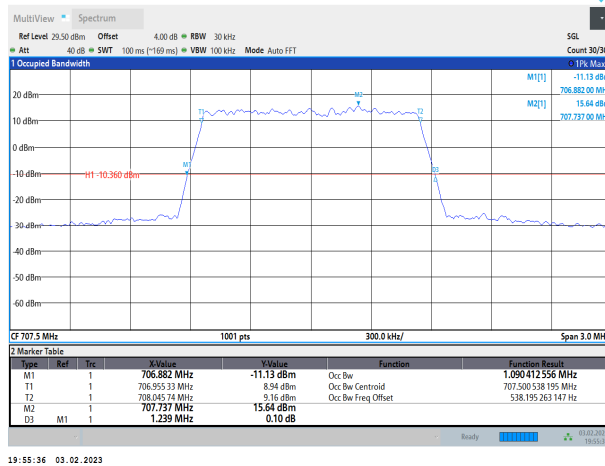
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Band12-1.4MHz-64QAM-23095-6RB#0

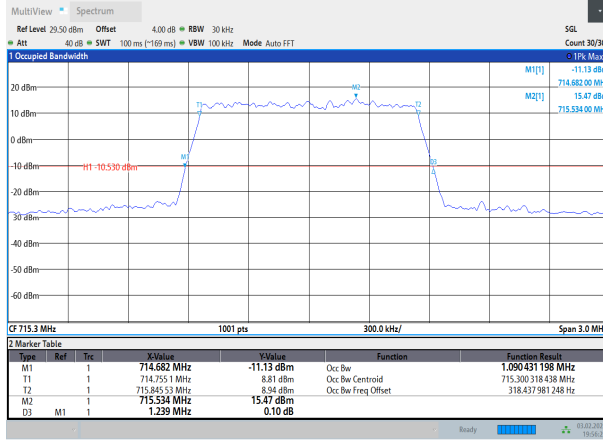


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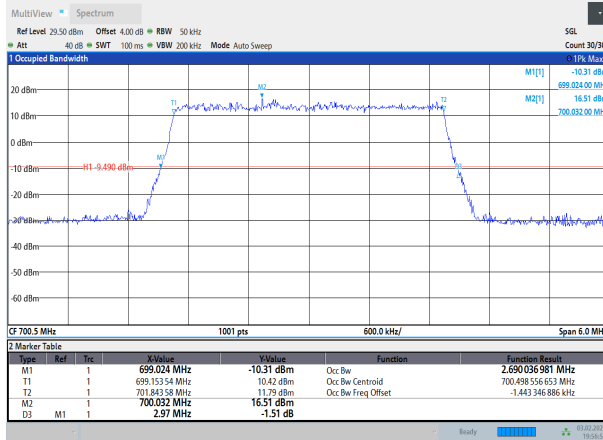
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Band12-1.4MHz-64QAM-23173-6RB#0



19:56:27 03.02.2023

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



19:56:58 03.02.2023

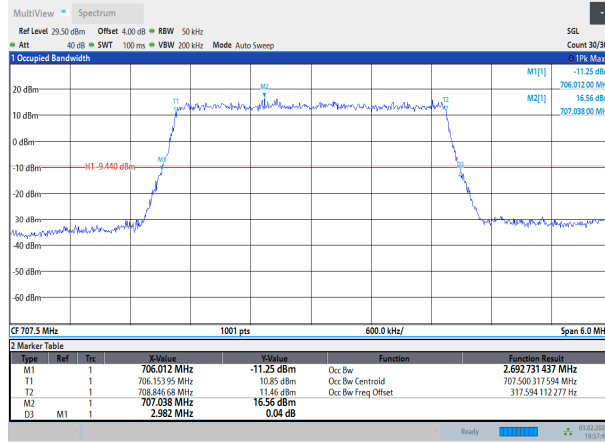


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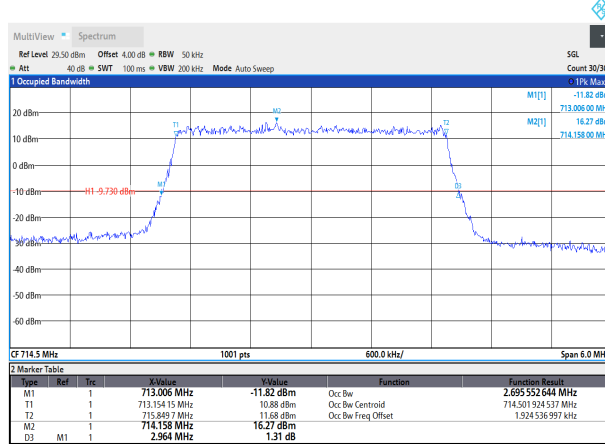
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Band12-3MHz-QPSK-23095-15RB#0



19:57:46 03.02.2023

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



19:58:35 03.02.2023

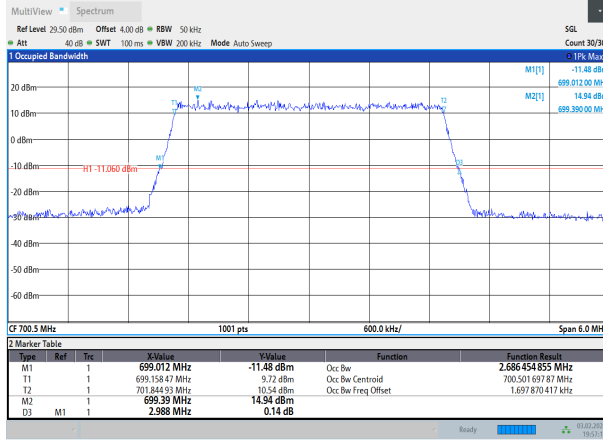


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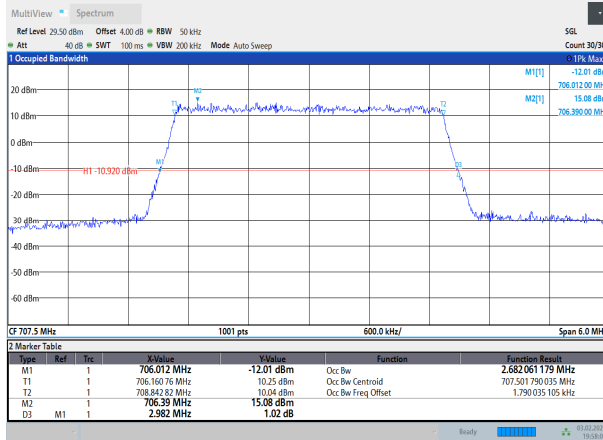
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Band12-3MHz-16QAM-23025-15RB#0



19:57:14 03.02.2023

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



19:58:02 03.02.2023

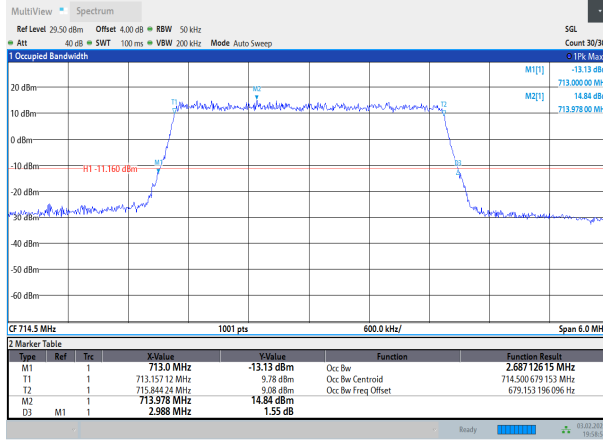


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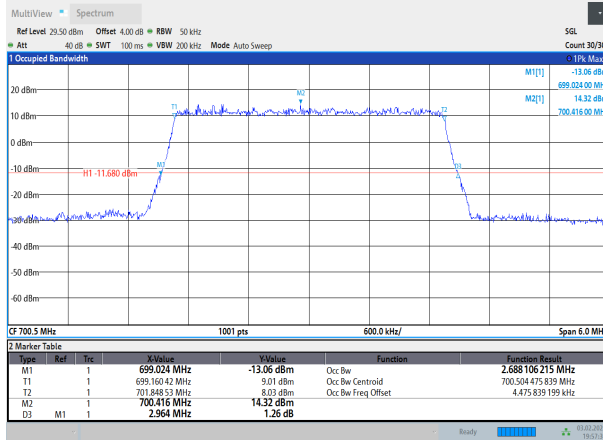
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Band12-3MHz-16QAM-23165-15RB#0



19:58:50 03.02.2023

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



19:57:30 03.02.2023

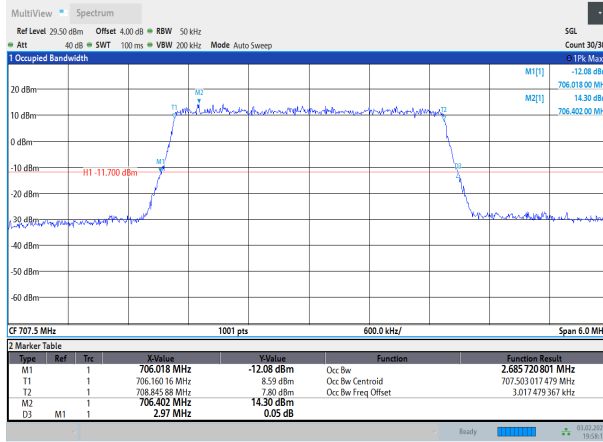


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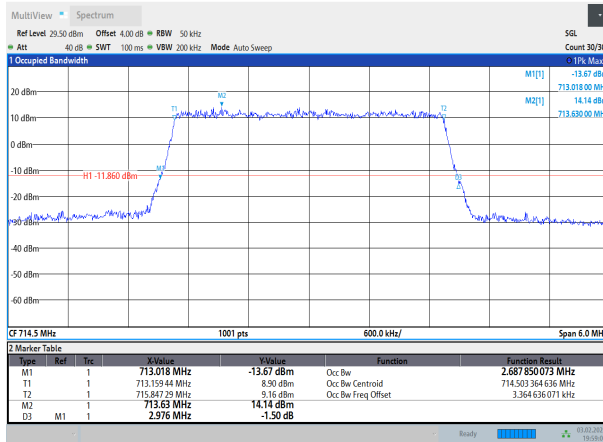
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Band12-3MHz-64QAM-23095-15RB#0



19:58:18 03.02.2023

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



19:59:07 03.02.2023

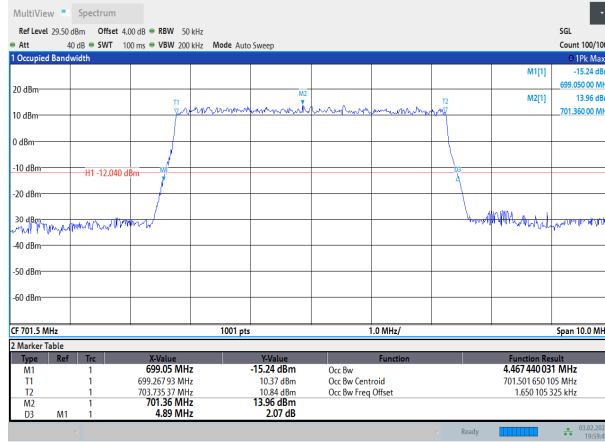


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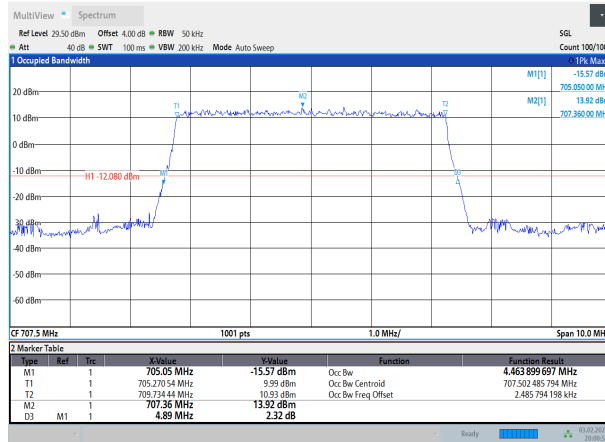
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Band12-5MHz-QPSK-23035-25RB#0



19:59:45 03.02.2023

Band12-5MHz-QPSK-23095-25RB#0



20:00:54 03.02.2023



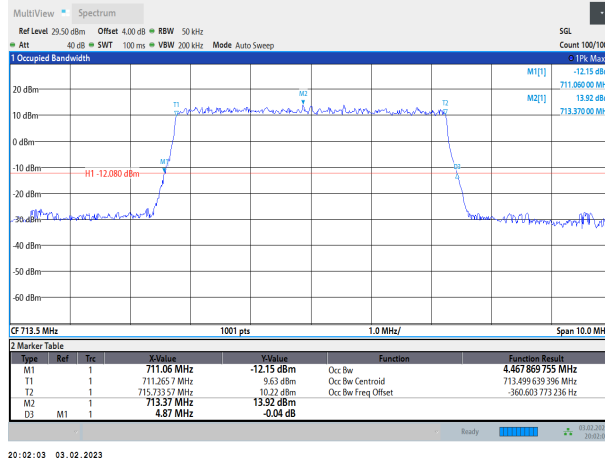
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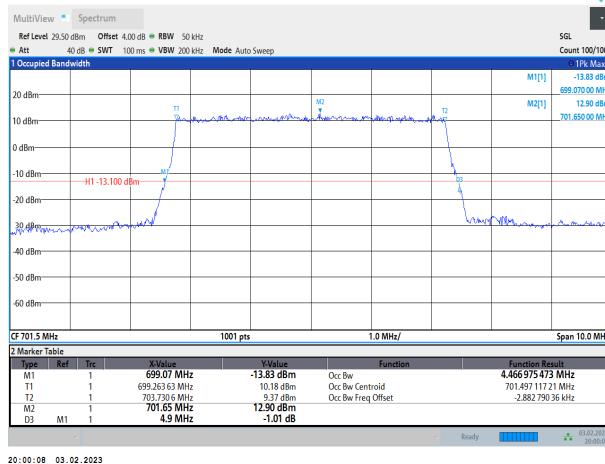
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Band12-5MHz-QPSK-23155-25RB#0



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

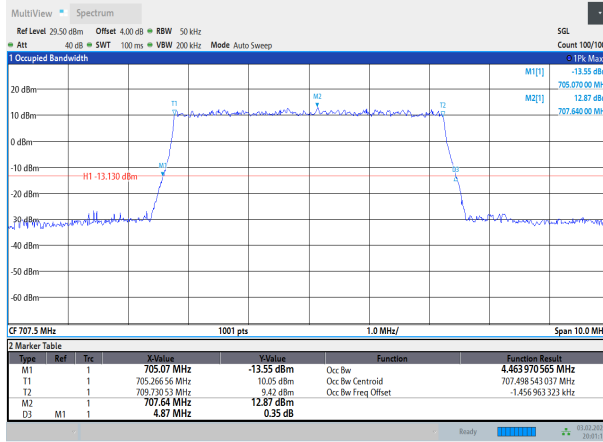


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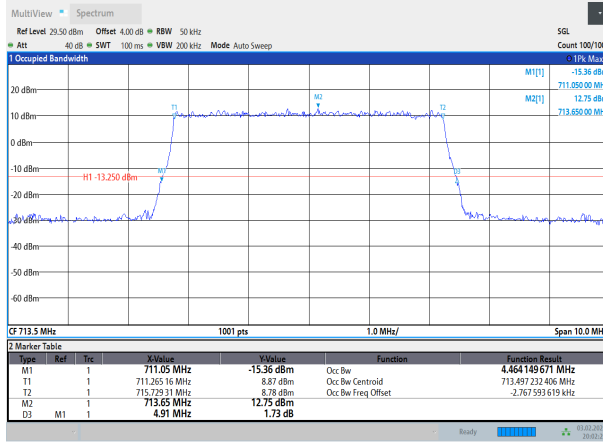
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Band12-5MHz-16QAM-23095-25RB#0



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



20:02:26 03.02.2023

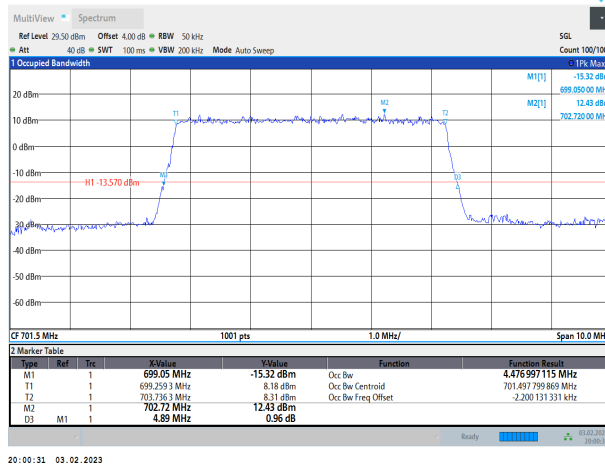


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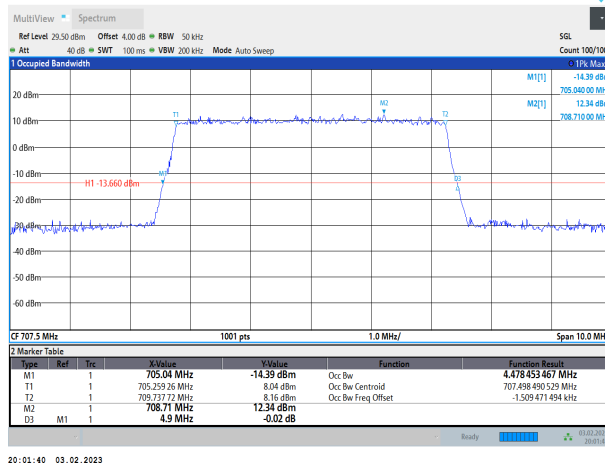
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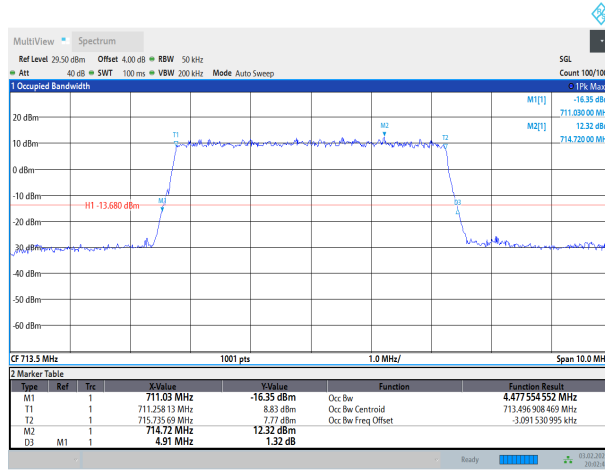


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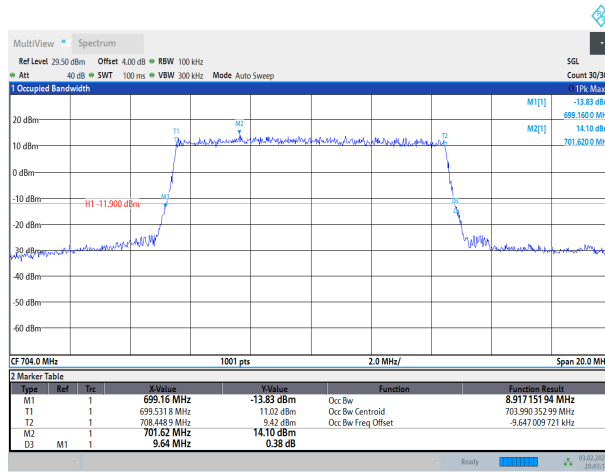
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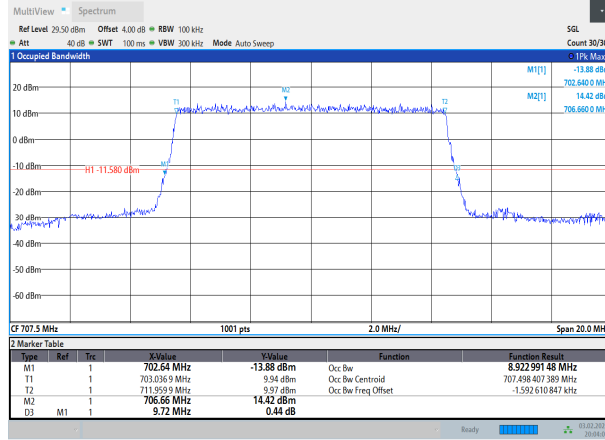


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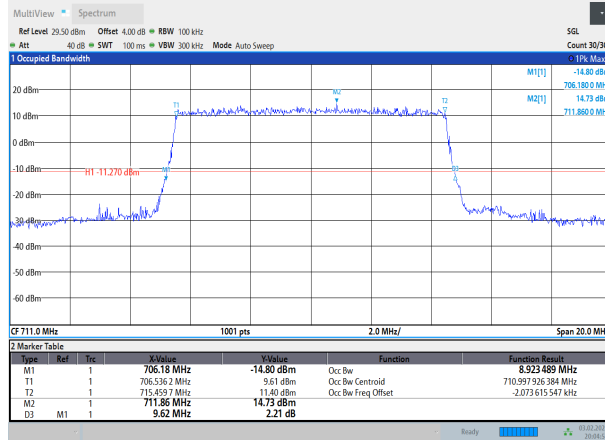
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20:04:07 03.02.2023

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



20:04:55 03.02.2023

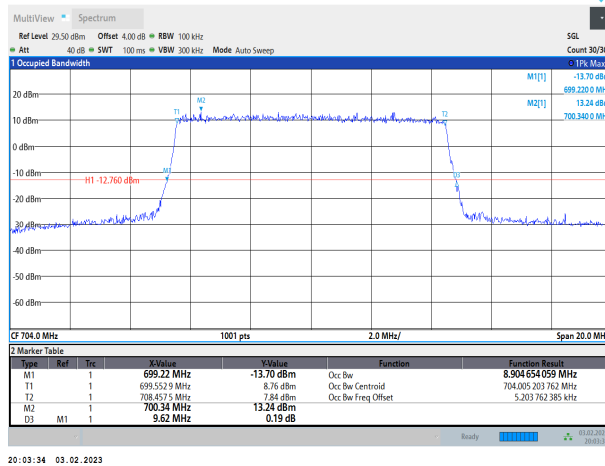


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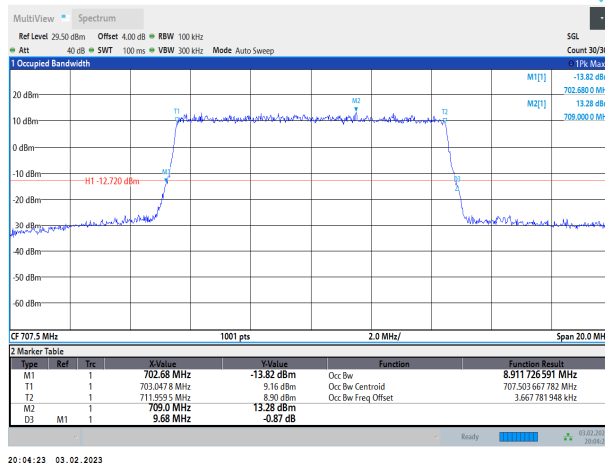
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Band12-10MHz-16QAM-23060-50RB#0



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

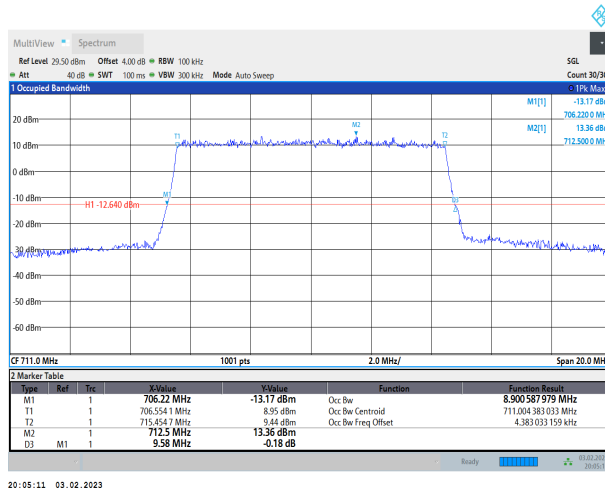


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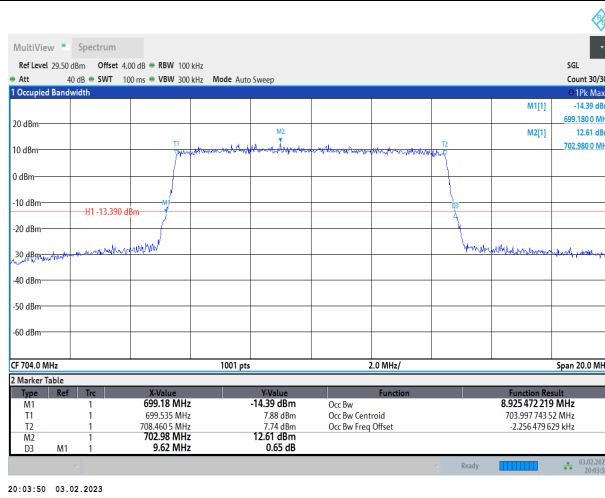
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**Band12-10MHz-16QAM-23130-50RB#0**



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

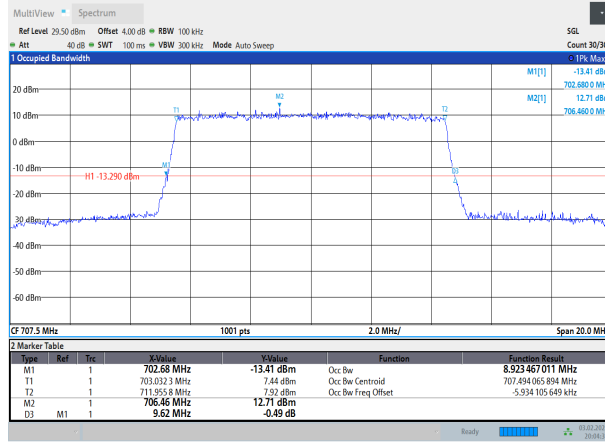


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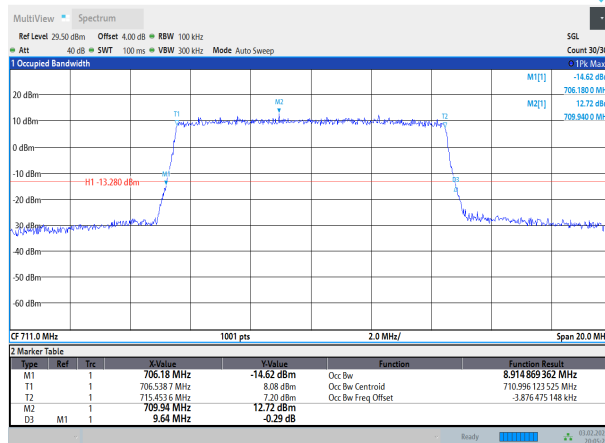
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Band12-10MHz-64QAM-23095-50RB#0



20:04:39 03.02.2023

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



20:05:27 03.02.2023



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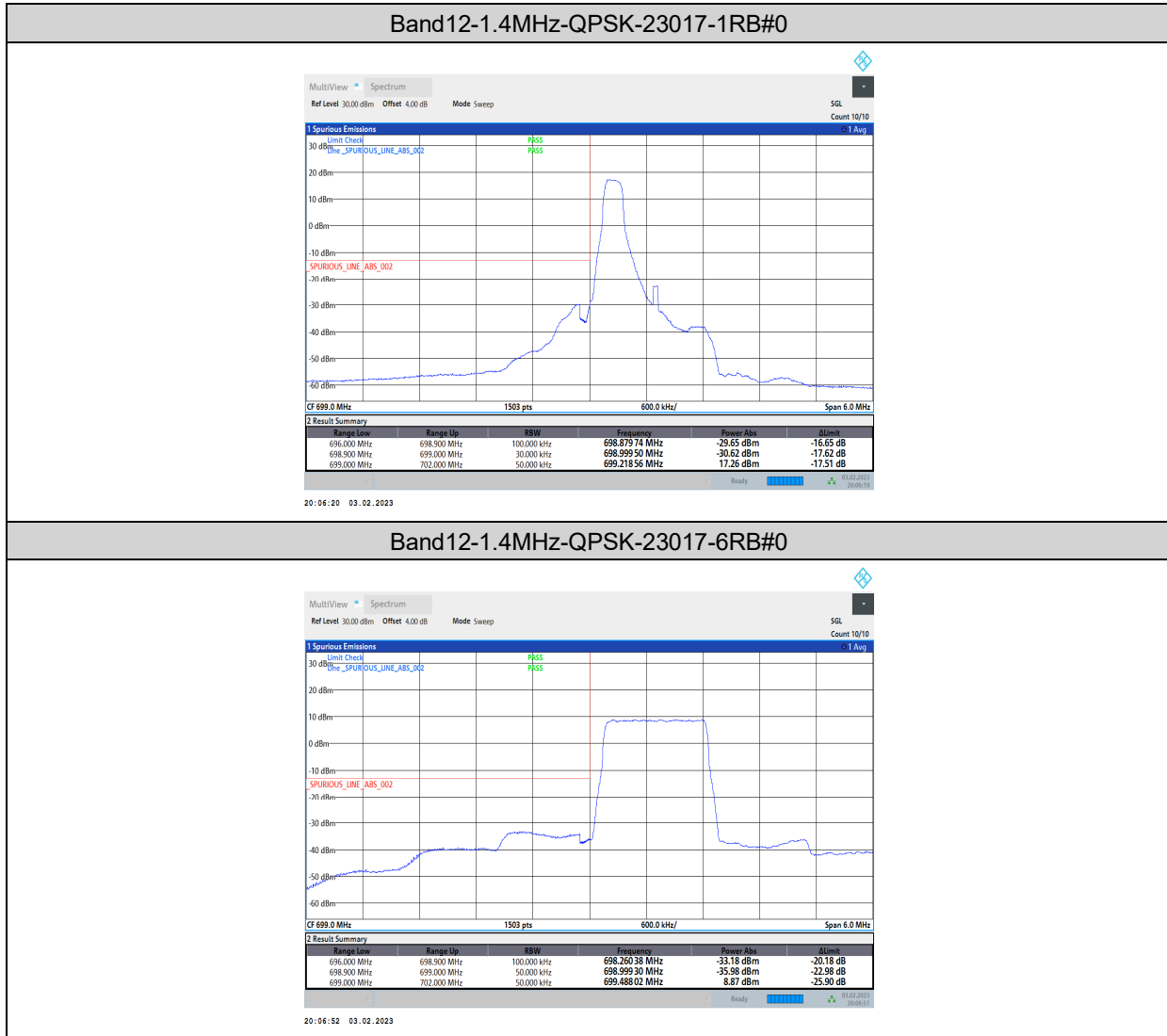
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## Band Edge

## Test Graphs

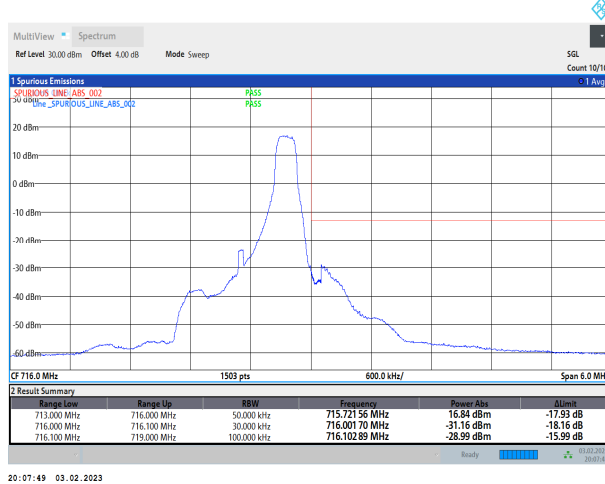


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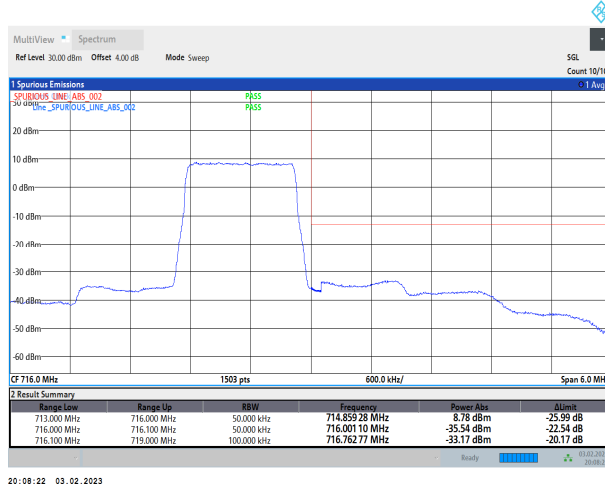
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Band12-1.4MHz-QPSK-23173-1RB#5



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

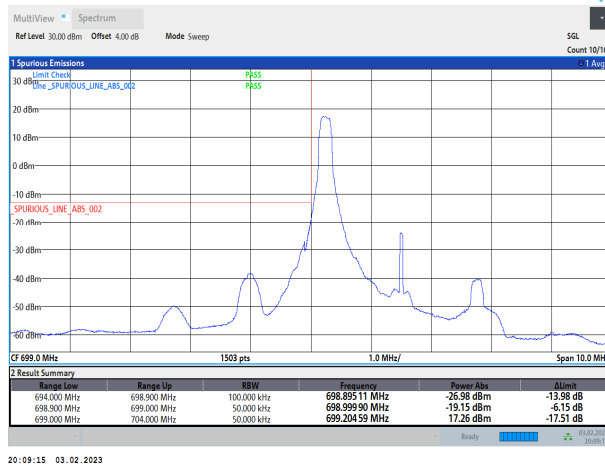


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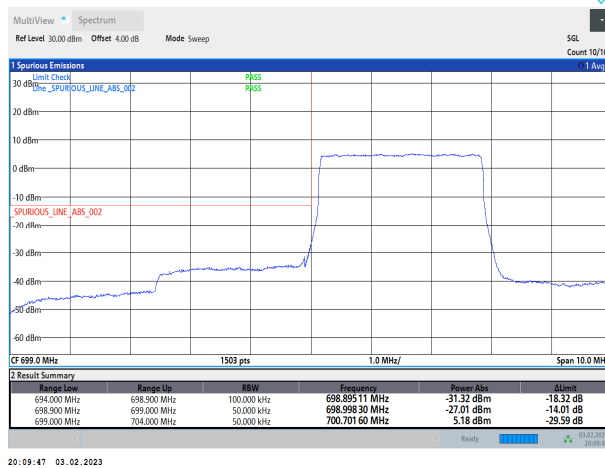
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Band12-3MHz-QPSK-23025-1RB#0



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

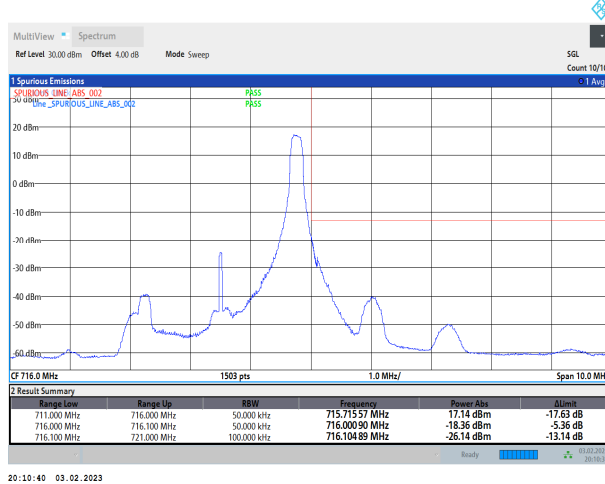


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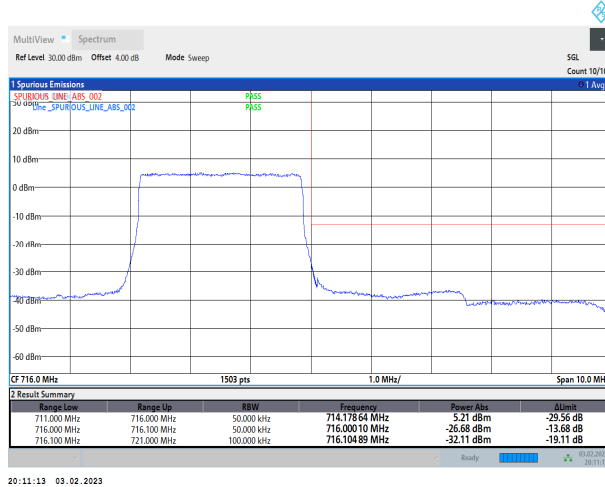
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Band12-3MHz-QPSK-23165-1RB#14



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

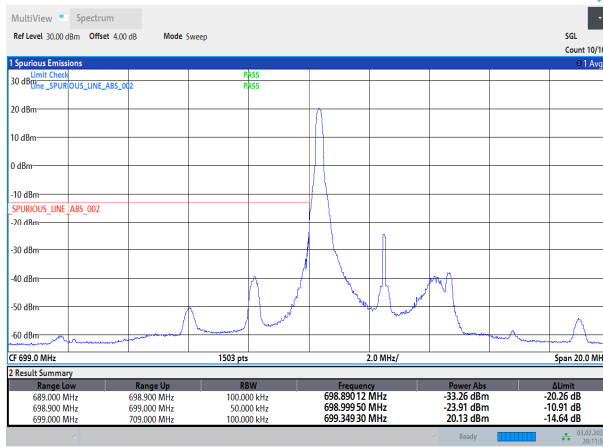


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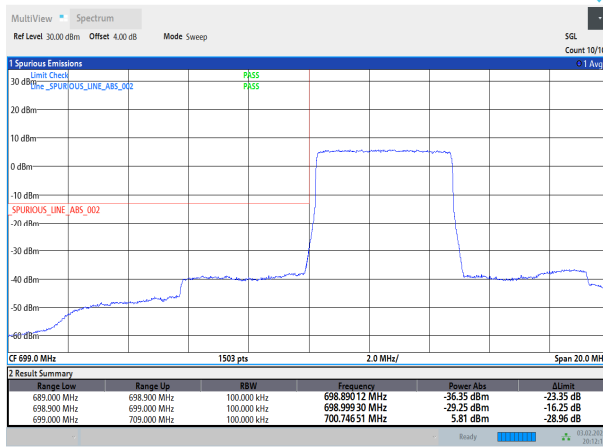
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Band12-5MHz-QPSK-23035-1RB#0



20:11:52 03.02.2023

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



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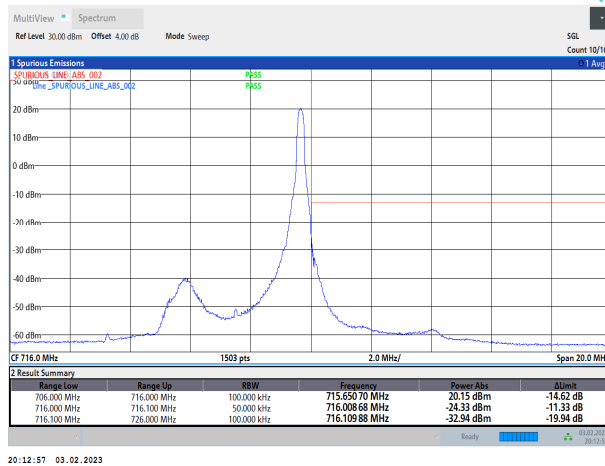


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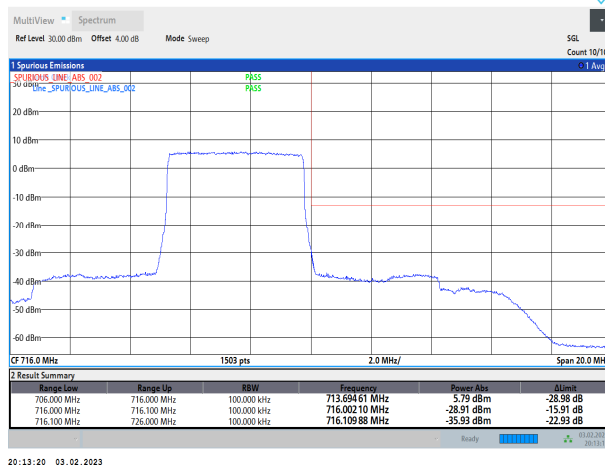
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Band12-5MHz-QPSK-23155-1RB#24



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

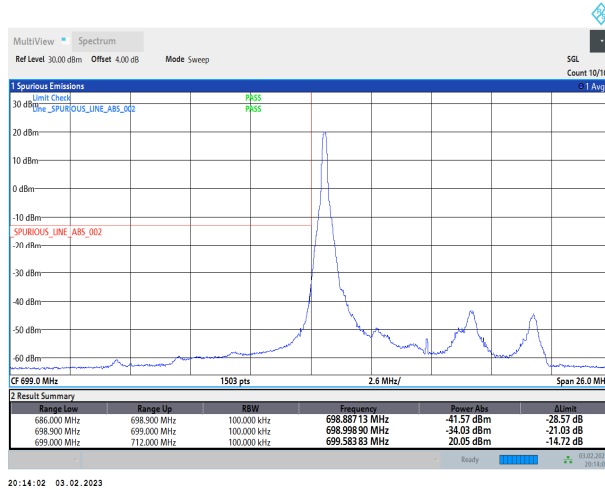


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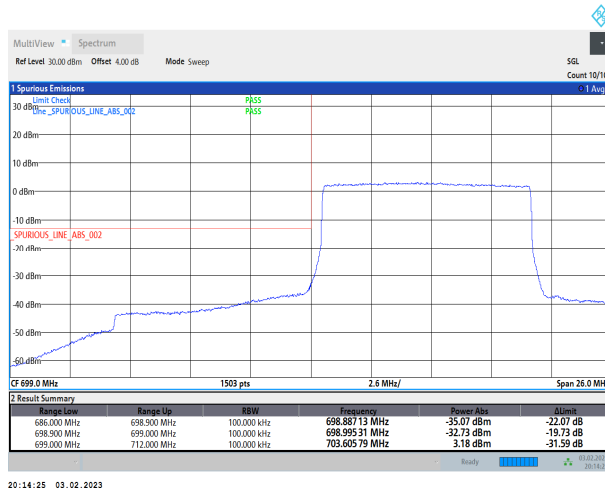
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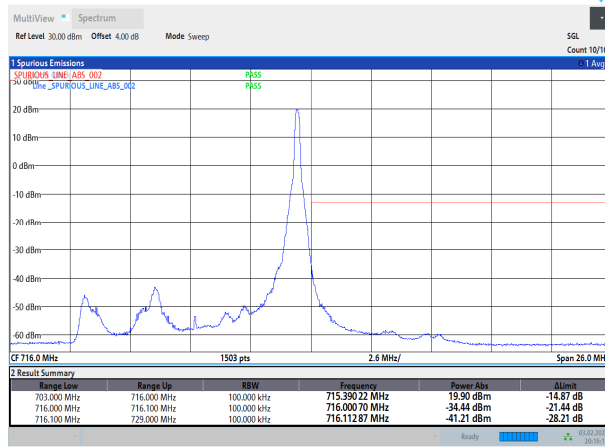


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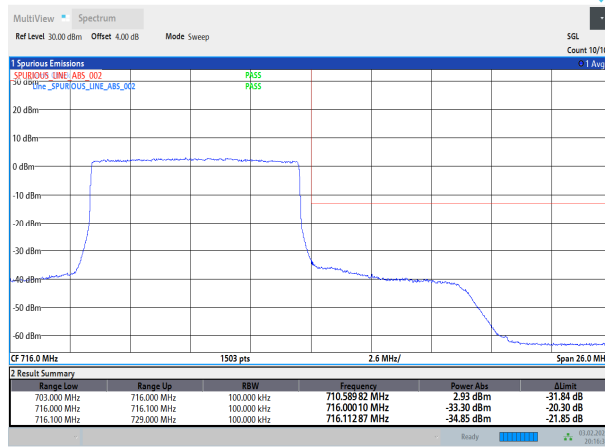
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Band12-10MHz-QPSK-23130-1RB#49



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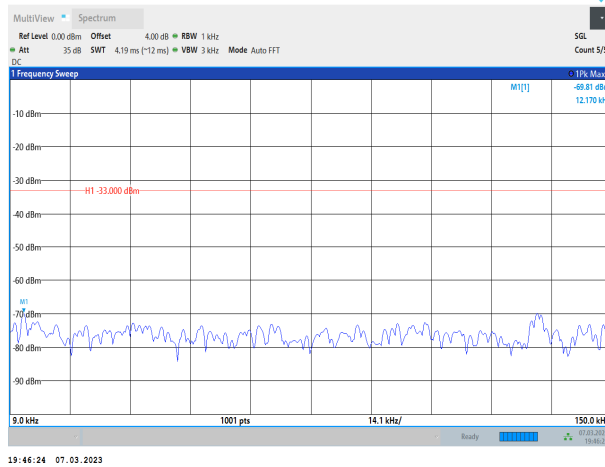
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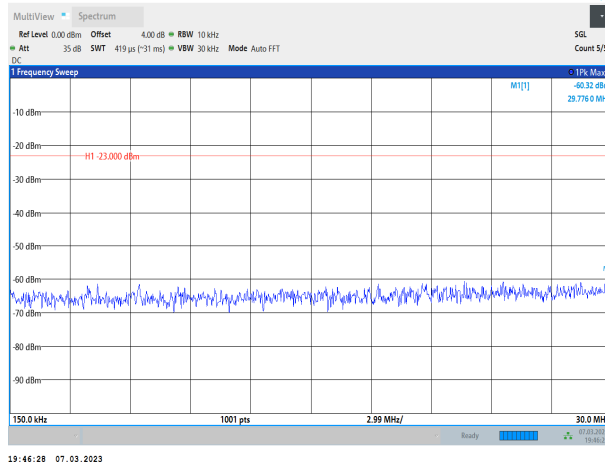
## Conducted Spurious Emission

### Test Graphs

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



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

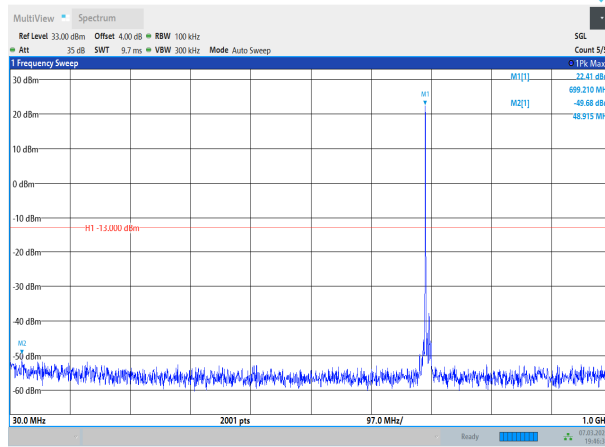


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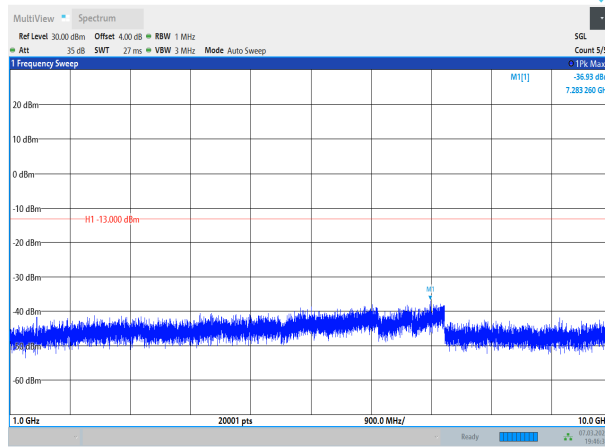
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

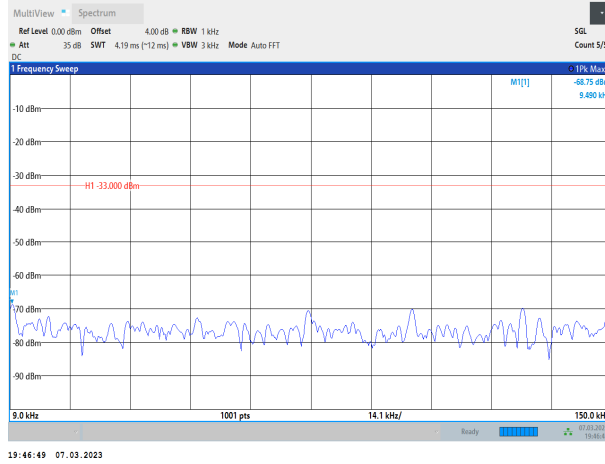


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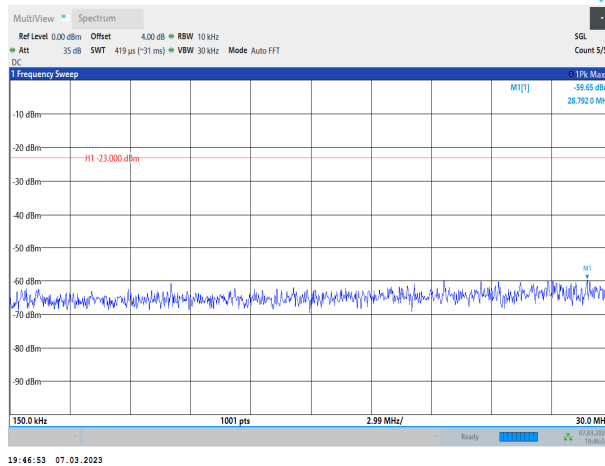
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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

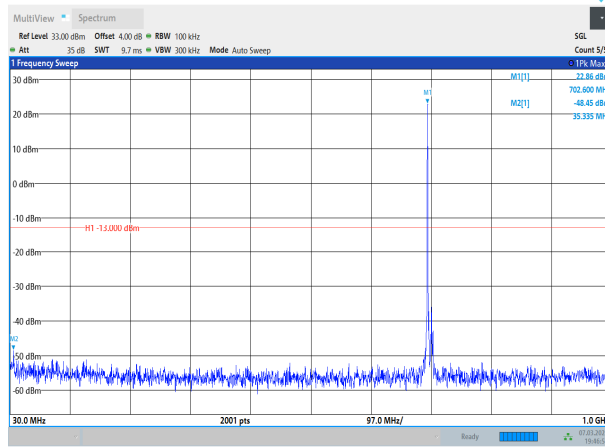


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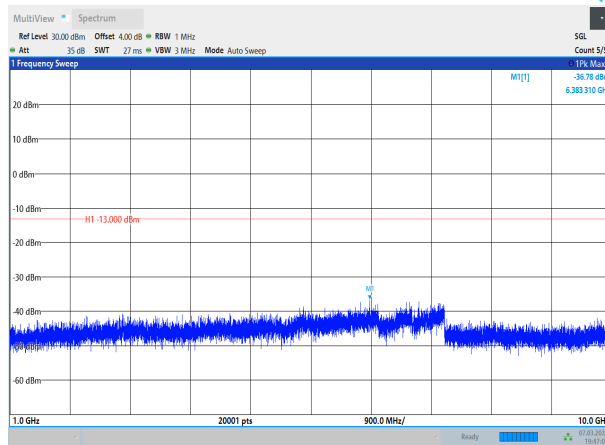
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



19:46:57 07.03.2023

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



19:47:01 07.03.2023

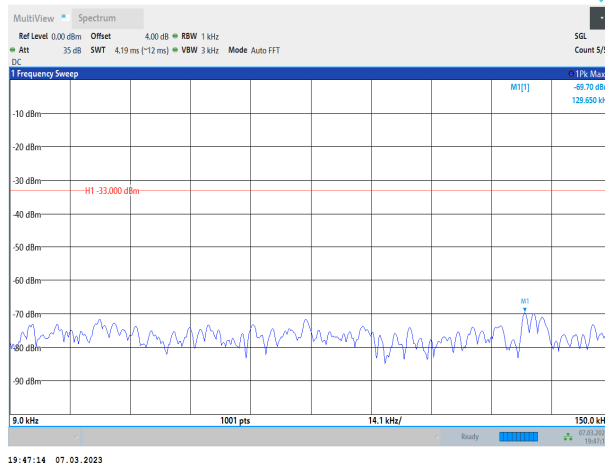


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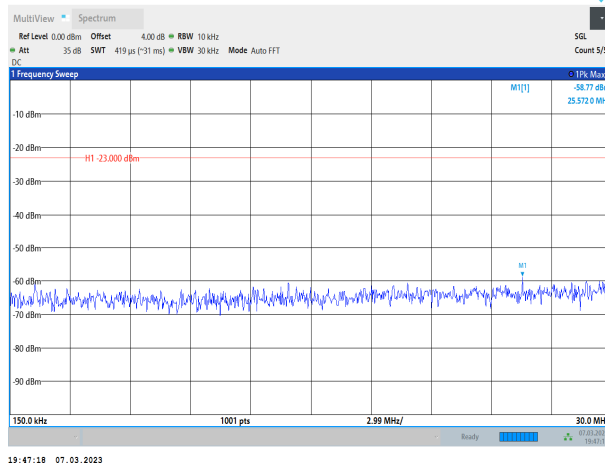
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

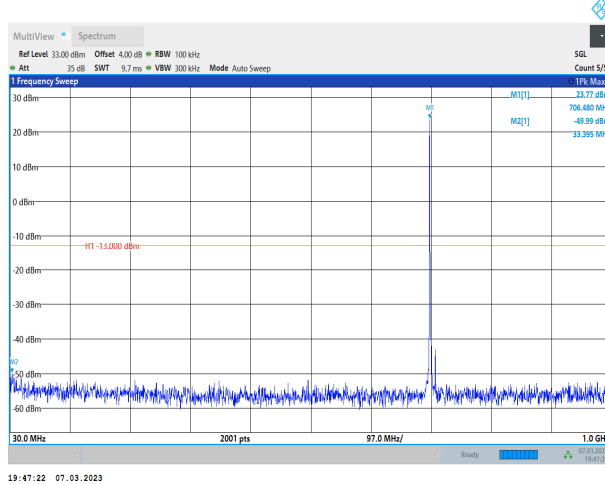


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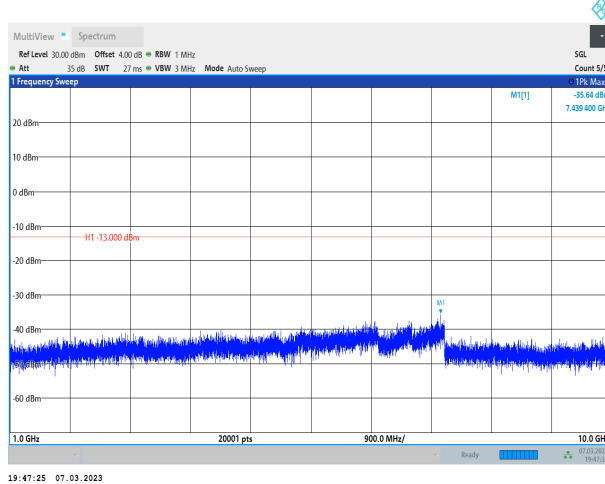
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band 12\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1111	54.52	-48.73	25.40	-64.07	-13.00	51.07	147	313	Horizontal
2	2126.6667	48.01	-47.84	27.15	-67.94	-13.00	54.94	265	329	Horizontal
3	2798.36	42.73	-46.69	28.92	-70.30	-13.00	57.30	216	141	Horizontal
4	3497.95	41.74	-46.05	29.40	-70.17	-13.00	57.17	288	280	Horizontal
5	4197.54	41.79	-45.12	30.92	-67.67	-13.00	54.67	194	95	Horizontal
6	4897.13	39.82	-45.14	32.35	-68.22	-13.00	55.22	208	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	1399.1111	56.81	-48.73	25.40	-61.78	-13.00	48.78	236	60	Vertical
2	2129.7778	45.88	-47.84	27.16	-70.06	-13.00	57.06	274	357	Vertical
3	2798.36	42.82	-46.69	28.92	-70.21	-13.00	57.21	196	360	Vertical
4	3497.95	42.27	-46.05	29.40	-69.64	-13.00	56.64	221	360	Vertical
5	4197.54	41.82	-45.12	30.92	-67.64	-13.00	54.64	158	310	Vertical
6	4897.13	40.20	-45.14	32.35	-67.84	-13.00	54.84	268	352	Vertical



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**Test Band = LTE Band 12\_ TM1**

**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	53.48	-48.72	25.41	-65.09	-13.00	52.09	244	314	Horizontal
2	2109.27	44.02	-47.87	27.12	-71.99	-13.00	58.99	285	81	Horizontal
3	2812.36	42.38	-46.69	28.96	-70.61	-13.00	57.61	193	298	Horizontal
4	3515.45	41.72	-46.03	29.44	-70.14	-13.00	57.14	241	188	Horizontal
5	4218.54	41.13	-45.11	30.95	-68.29	-13.00	55.29	152	0	Horizontal
6	4921.63	40.27	-45.12	32.41	-67.70	-13.00	54.70	268	314	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	2130.2222	46.04	-47.84	27.16	-69.90	-13.00	56.90	257	219	Vertical
2	4976.8889	44.70	-45.04	32.54	-63.06	-13.00	50.06	148	298	Vertical
3	1406.18	55.13	-48.72	25.41	-63.44	-13.00	50.44	193	63	Vertical
4	2812.36	42.95	-46.69	28.96	-70.04	-13.00	57.04	258	359	Vertical
5	3515.45	41.98	-46.03	29.44	-69.88	-13.00	56.88	162	343	Vertical
6	4218.54	41.37	-45.11	30.95	-68.05	-13.00	55.05	176	360	Vertical



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**Test Band = LTE Band 12\_ TM1**

**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	52.93	-48.70	25.41	-65.61	-13.00	52.61	219	284	Horizontal
2	2119.77	43.46	-47.85	27.14	-72.51	-13.00	59.51	234	252	Horizontal
3	2826.36	42.94	-46.71	29.01	-70.02	-13.00	57.02	288	174	Horizontal
4	3532.95	42.18	-46.01	29.48	-69.61	-13.00	56.61	184	345	Horizontal
5	4239.54	41.28	-45.11	30.98	-68.11	-13.00	55.11	227	111	Horizontal
6	4946.13	39.61	-45.09	32.47	-68.26	-13.00	55.26	163	267	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	2131.5556	49.59	-47.84	27.16	-66.34	-13.00	53.34	157	298	Vertical
2	1413.18	53.73	-48.70	25.41	-64.81	-13.00	51.81	255	46	Vertical
3	2826.36	42.49	-46.71	29.01	-70.47	-13.00	57.47	249	108	Vertical
4	3532.95	42.20	-46.01	29.48	-69.59	-13.00	56.59	216	218	Vertical
5	4239.54	41.38	-45.11	30.98	-68.01	-13.00	55.01	293	92	Vertical
6	4946.13	39.93	-45.09	32.47	-67.94	-13.00	54.94	196	155	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) - Pre-amplifier (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	-1.80	-0.002544	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-2.60	-0.003675	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-4.80	-0.006784	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.50	-0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.90	-0.005512	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-4.90	-0.006926	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-2.50	-0.003534	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	1.60	0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	1.70	0.002403	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	1.00	0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.50	-0.000707	PASS

---End of Attachment---



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