

Report No.: SEWA2204000009RG01

Rev.: 01

Page: 1 of 53

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	23.76	23.81	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.83	23.88	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.80	23.85	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.93	22.98	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.84	23.89	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.82	23.87	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.77	23.82	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.94	22.99	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.71	23.76	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.87	23.92	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.79	23.84	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.94	22.99	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.96	23.01	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.09	23.14	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.06	23.11	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.95	22	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.04	23.09	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.13	23.18	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.07	23.12	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.96	22.01	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.97	23.02	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.15	23.2	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.99	23.04	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.98	22.03	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.06	22.11	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.18	22.23	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.07	22.12	34.77	PASS



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 3 of 53

Band12	1.4MHz	64QAM	23017	6RB#0	20.90	20.95	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.06	22.11	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.10	22.15	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.07	22.12	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.00	21.05	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.00	22.05	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.14	22.19	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.02	22.07	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.95	21	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.91	23.96	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.91	23.96	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.83	23.88	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.05	23.1	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.94	23.99	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.98	24.03	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.89	23.94	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.06	23.11	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.92	23.97	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.91	23.96	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.85	23.9	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.96	23.01	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.10	23.15	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.13	23.18	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.10	23.15	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.00	22.05	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.18	23.23	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.20	23.25	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.15	23.2	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.06	22.11	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.16	23.21	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.18	23.23	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.11	23.16	34.77	PASS



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 4 of 53

Band12	3MHz	16QAM	23165	15RB#0	22.03	22.08	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.16	22.21	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.33	22.38	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.17	22.22	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.03	21.08	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.13	22.18	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.20	22.25	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.17	22.22	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.06	21.11	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.22	22.27	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.26	22.31	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.13	22.18	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.98	21.03	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.93	23.98	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.88	23.93	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.83	23.88	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.07	23.12	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.97	24.02	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.97	24.02	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.93	23.98	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.04	23.09	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.93	23.98	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.85	23.9	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.95	24	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.09	23.14	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.14	23.19	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.08	23.13	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.12	23.17	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.09	22.14	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.23	23.28	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.23	23.28	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.15	23.2	34.77	PASS



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 5 of 53

Band12	5MHz	16QAM	23095	25RB#0	22.11	22.16	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.18	23.23	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.24	23.29	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.24	23.29	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.09	22.14	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.21	22.26	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.16	22.21	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.17	22.22	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.01	21.06	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.25	22.3	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.20	22.25	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.17	22.22	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.06	21.11	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.24	22.29	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.26	22.31	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.15	22.2	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.09	21.14	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.87	23.92	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.93	23.98	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.78	23.83	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.13	23.18	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.02	24.07	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.04	24.09	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.93	23.98	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.04	23.09	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.96	24.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.96	24.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.62	23.67	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.03	23.08	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.24	23.29	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.39	23.44	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.31	23.36	34.77	PASS



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 6 of 53

Band12	10MHz	16QAM	23060	50RB#0	22.05	22.1	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.41	23.46	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.39	23.44	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.38	23.43	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.98	22.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.37	23.42	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.32	23.37	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.20	23.25	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.05	22.1	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.04	22.09	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.04	22.09	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.16	22.21	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.06	21.11	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.12	22.17	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.29	22.34	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.16	22.21	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.07	21.12	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.22	22.27	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.21	22.26	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.07	22.12	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.03	21.08	34.77	PASS



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 7 of 53

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.52	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.44	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.18	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.22	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.02	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.68	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.60	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.46	13	PASS



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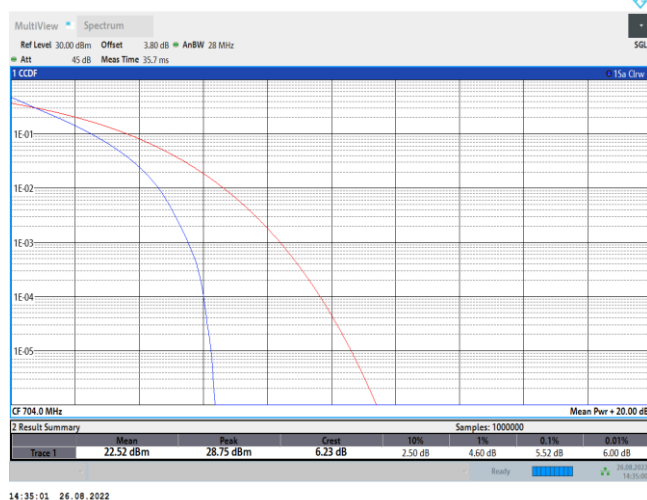
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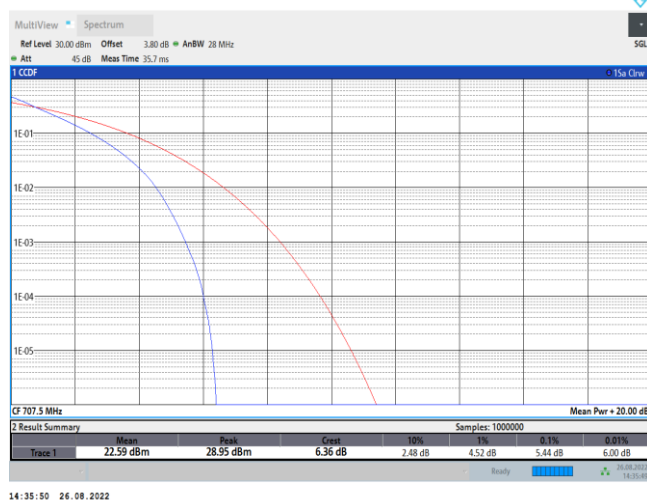
Page: 8 of 53

Test Graphs

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



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



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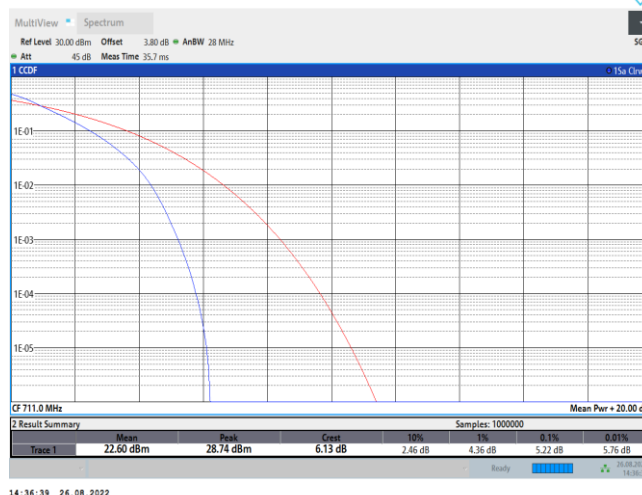
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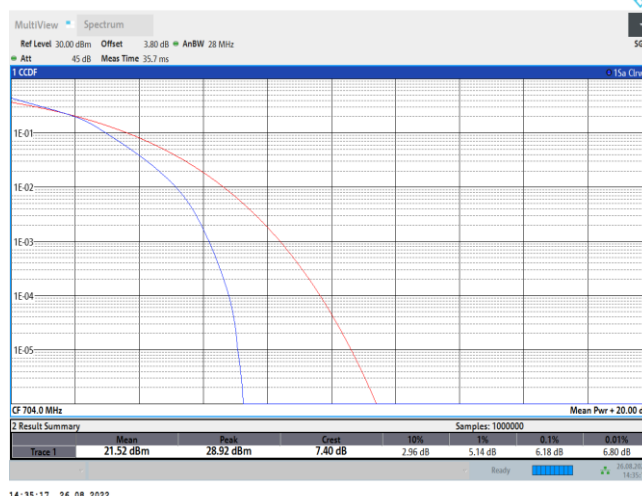
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Page: 9 of 53

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



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



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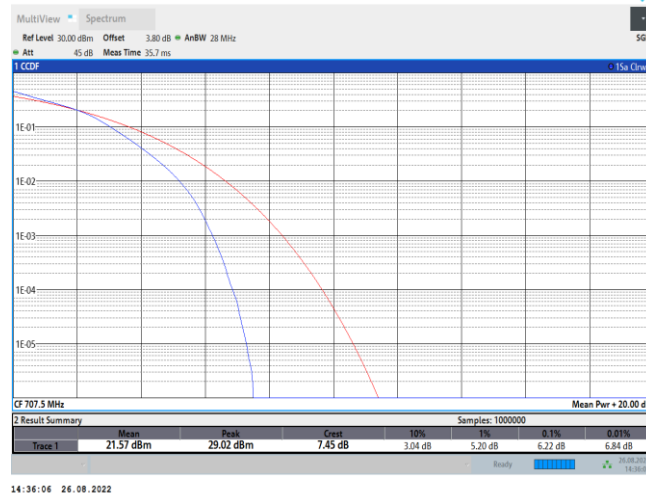
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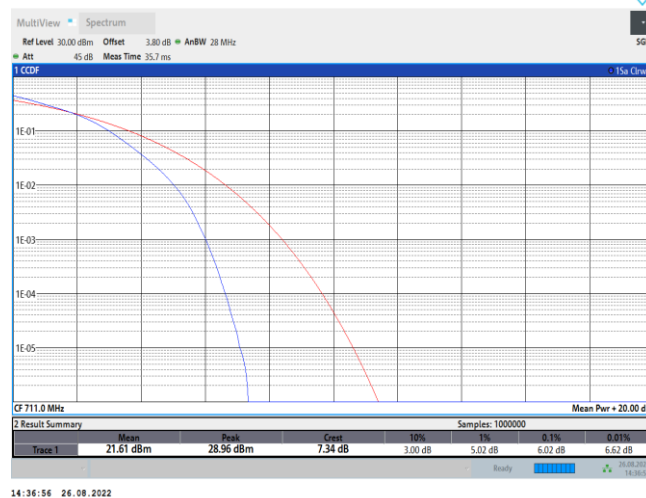
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Band12-10MHz-16QAM-23095-50RB#0



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



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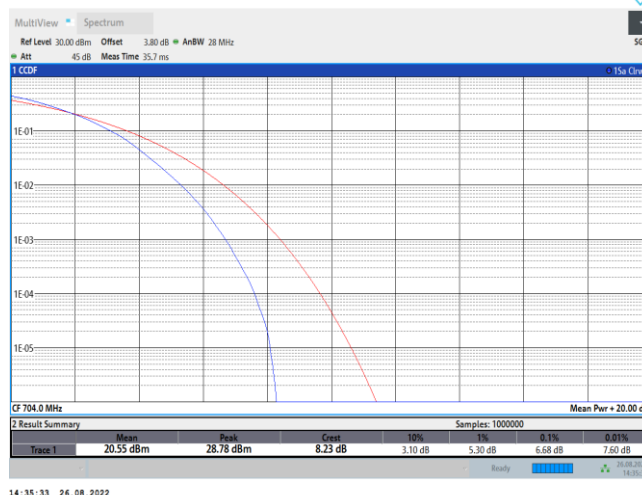
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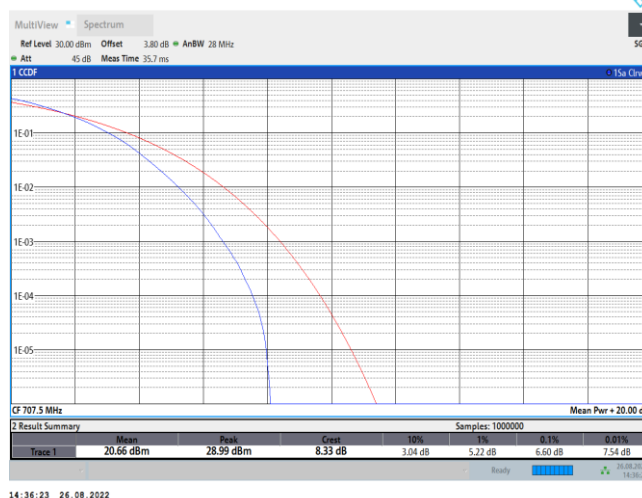
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Band12-10MHz-64QAM-23060-50RB#0



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



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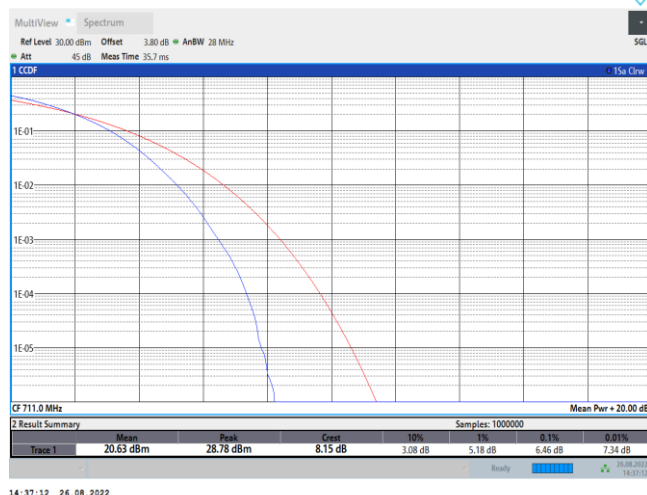
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Band12-10MHz-64QAM-23130-50RB#0



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Rev.: 01

Page: 13 of 53

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



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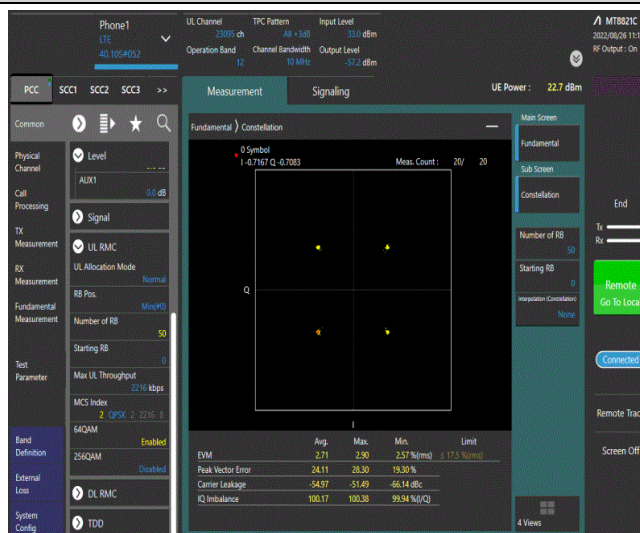
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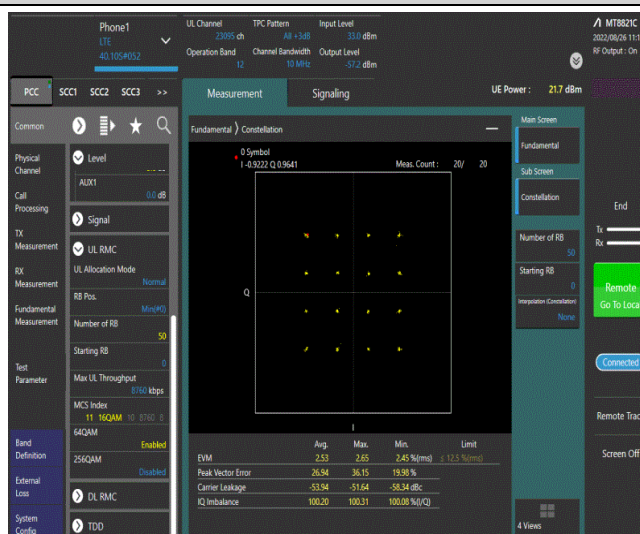
Page: 14 of 53

Test Graphs

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



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

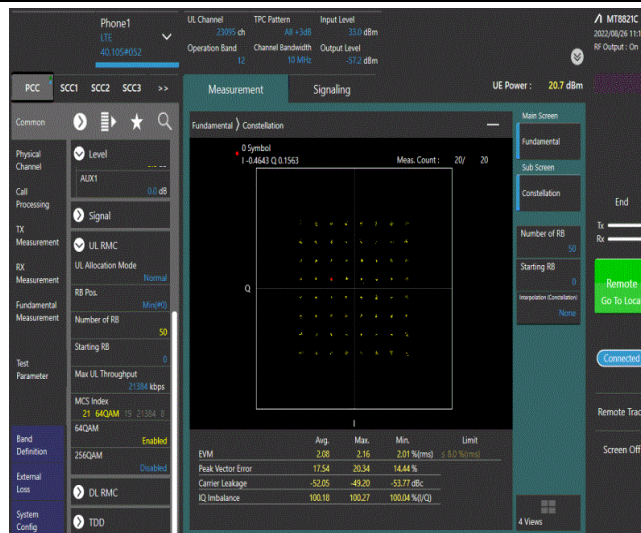


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Band12-10MHz-64QAM-23095-50RB#0



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Rev.: 01

Page: 16 of 53

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	1.23	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	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.091	1.25	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	2.691	2.97	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.687	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.689	2.98	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.687	2.99	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	2.99	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.684	2.98	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.685	2.96	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.69	2.97	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.688	2.96	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.469	4.87	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.465	4.88	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.469	4.89	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.468	4.88	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.466	4.90	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.476	4.89	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.478	4.89	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.47	4.90	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.94	9.68	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.931	9.64	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.906	9.58	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.907	9.62	PASS



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 17 of 53

Band12	10MHz	16QAM	23095	50RB#0	8.92	9.62	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.898	9.60	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.928	9.66	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.931	9.62	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.903	9.62	PASS



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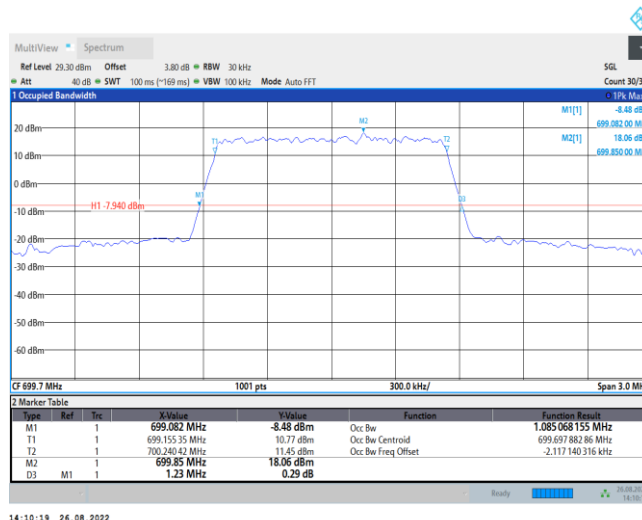
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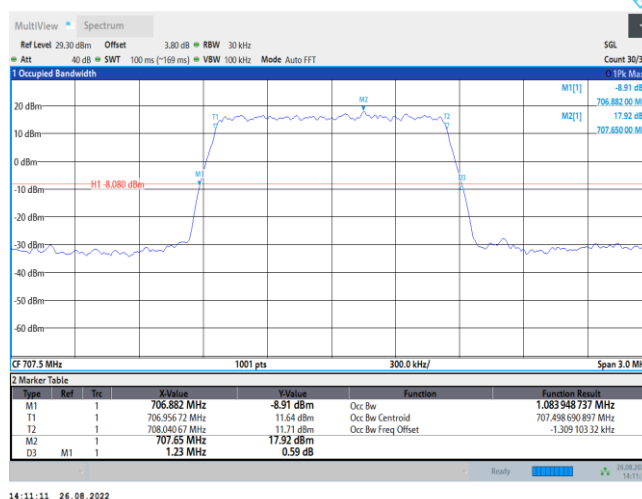
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Test Graphs

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



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



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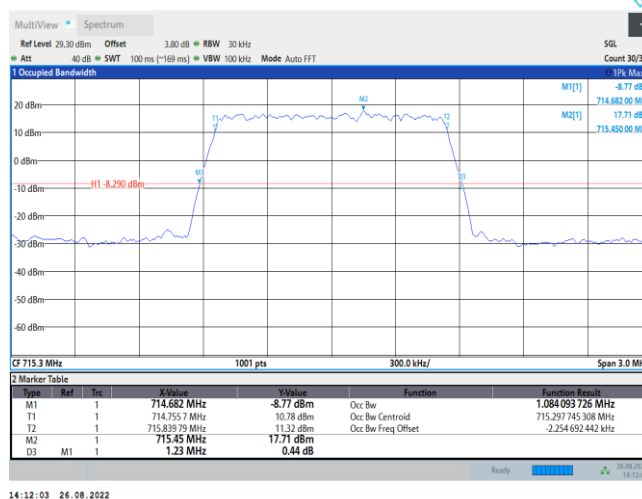
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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 19 of 53

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



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



Report No.: SEWA2204000009RG01

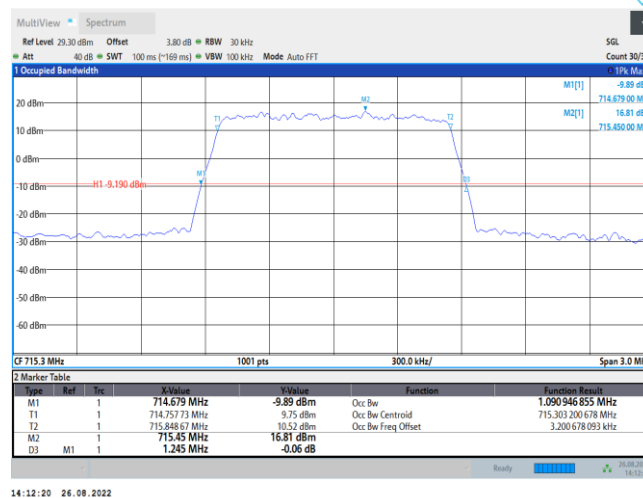
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Band12-1.4MHz-16QAM-23095-6RB#0



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



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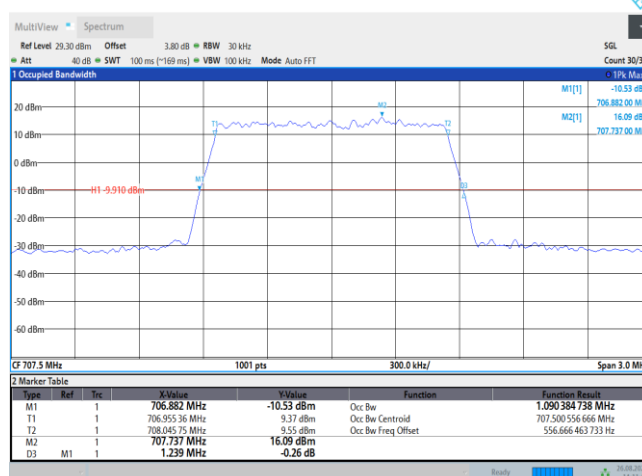
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Band12-1.4MHz-64QAM-23017-6RB#0



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



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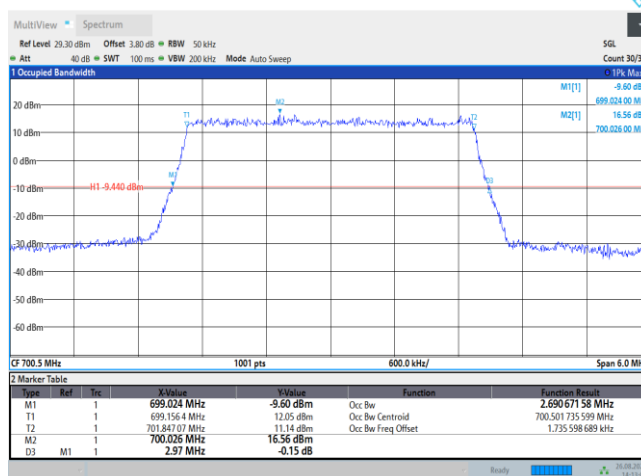
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Band12-1.4MHz-64QAM-23173-6RB#0



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



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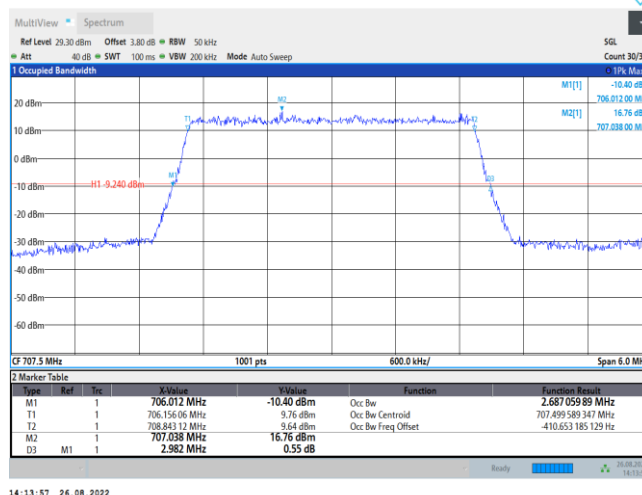
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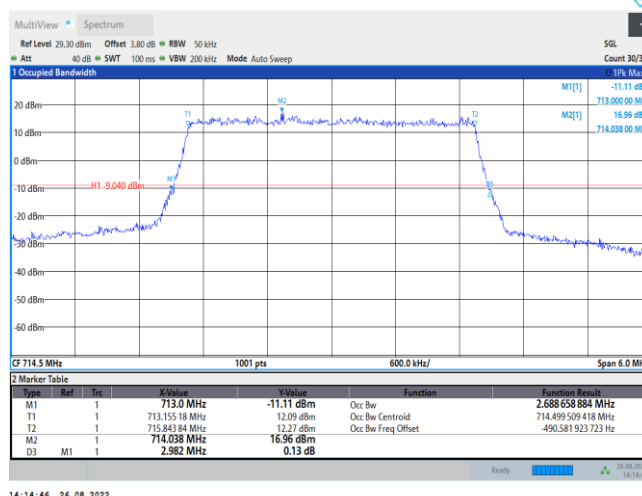
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Band12-3MHz-QPSK-23095-15RB#0



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



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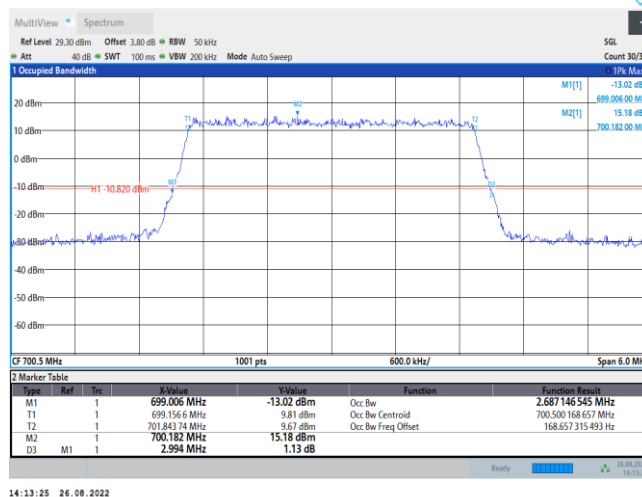
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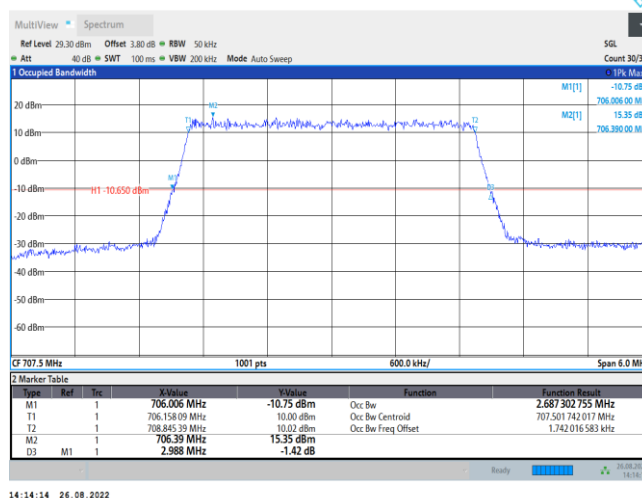
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Band12-3MHz-16QAM-23025-15RB#0



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

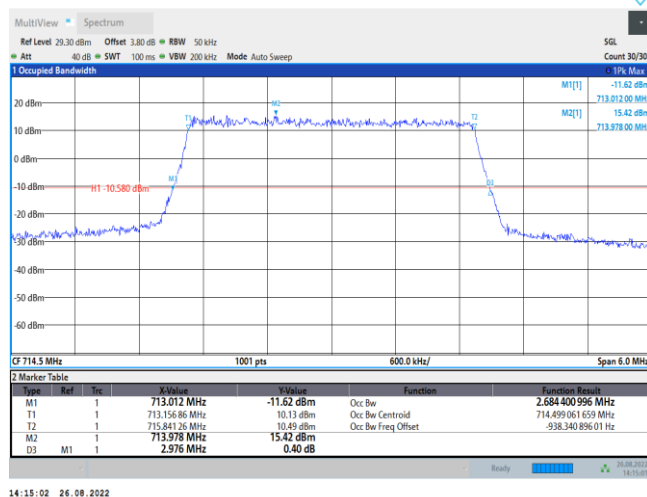


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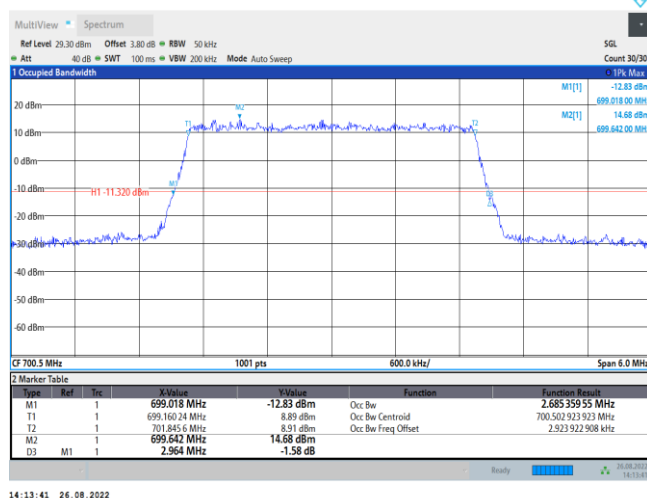
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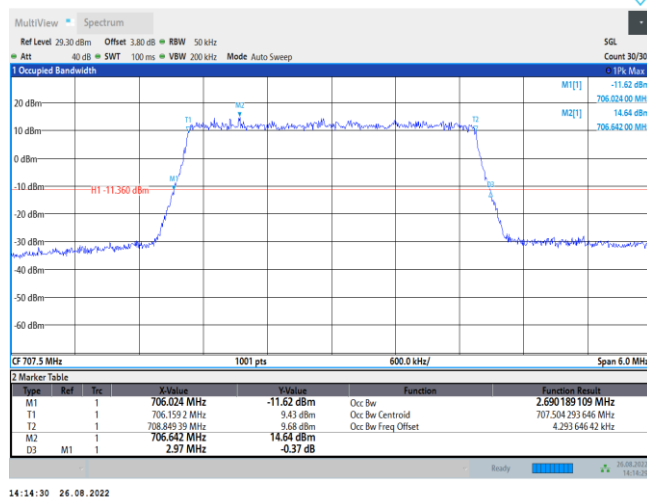


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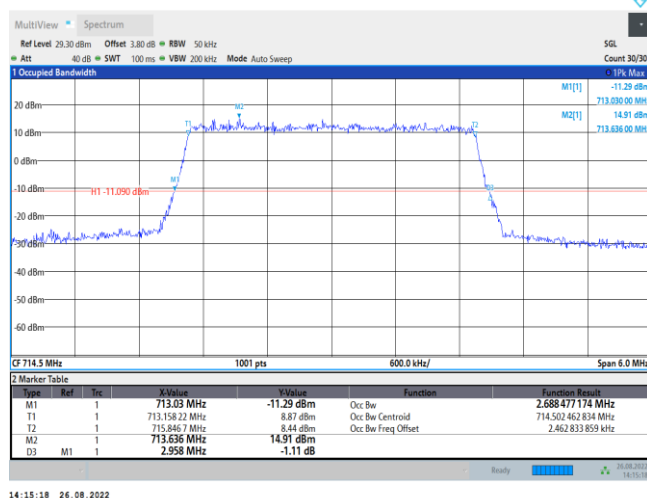
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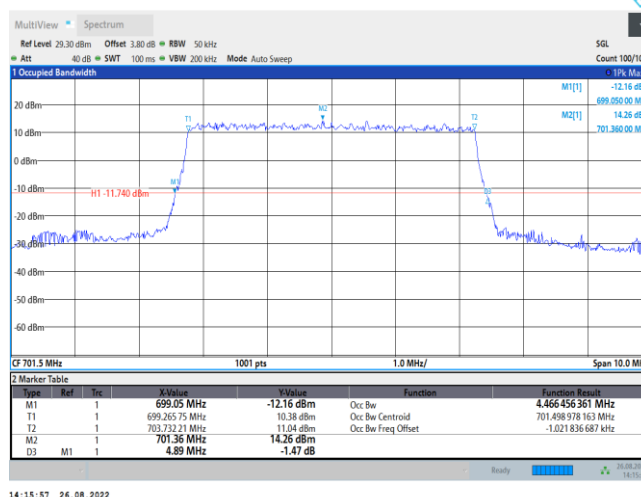
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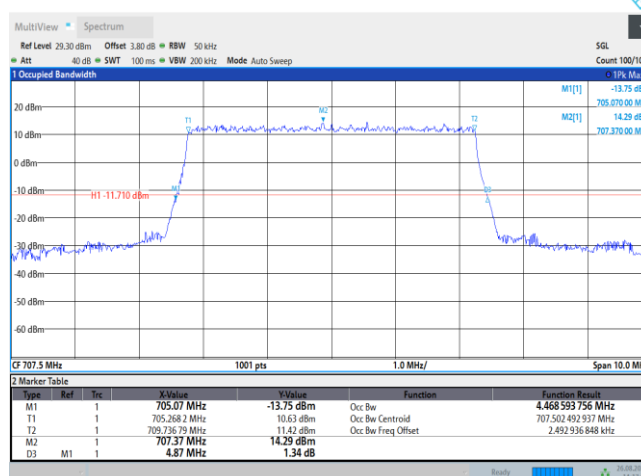
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Band12-5MHz-QPSK-23035-25RB#0



14:15:57 26.08.2022

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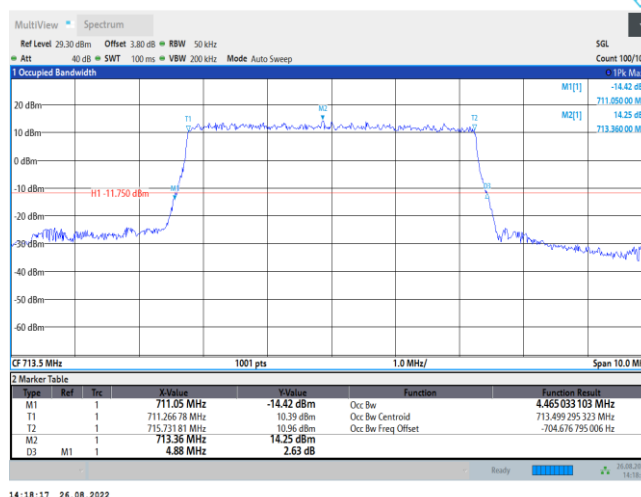
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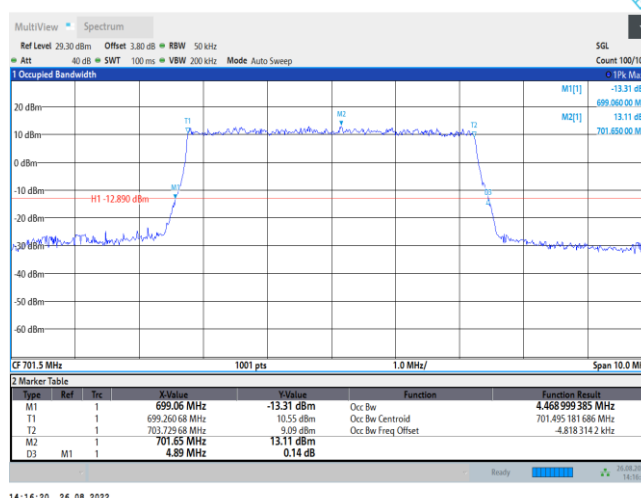
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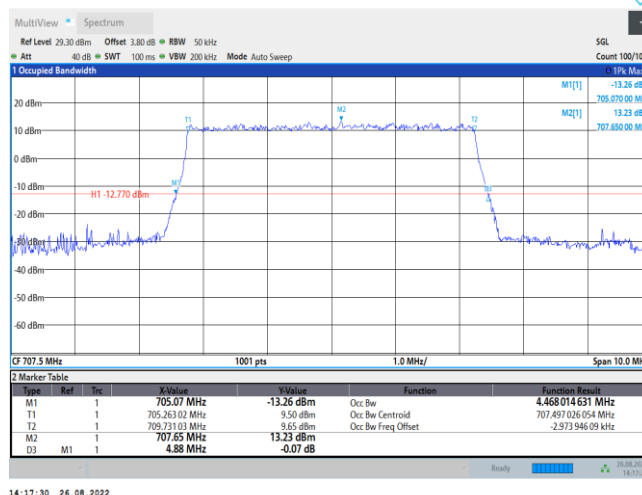
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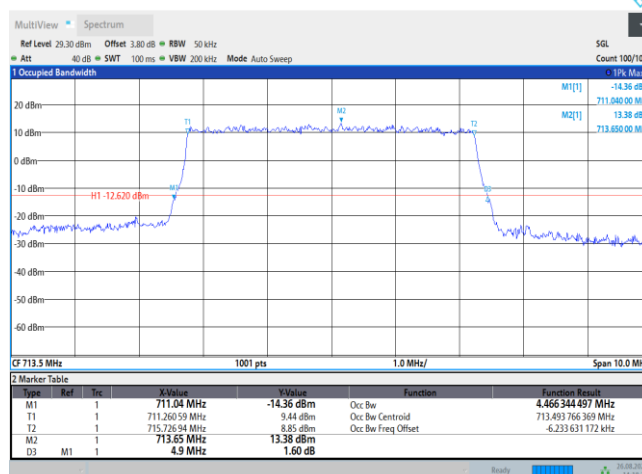
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Band12-5MHz-16QAM-23095-25RB#0



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



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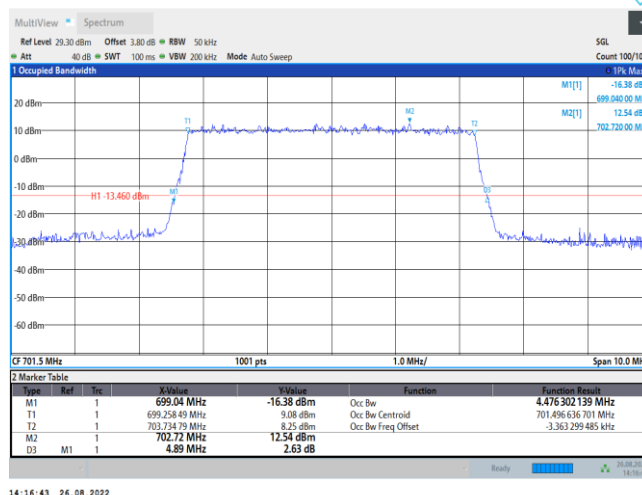
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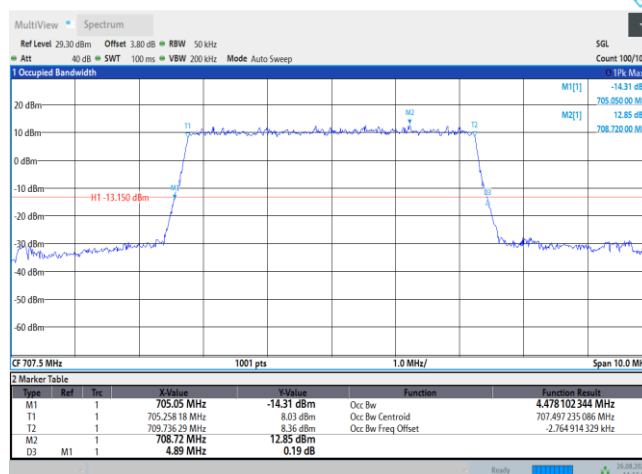
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Band12-5MHz-64QAM-23035-25RB#0



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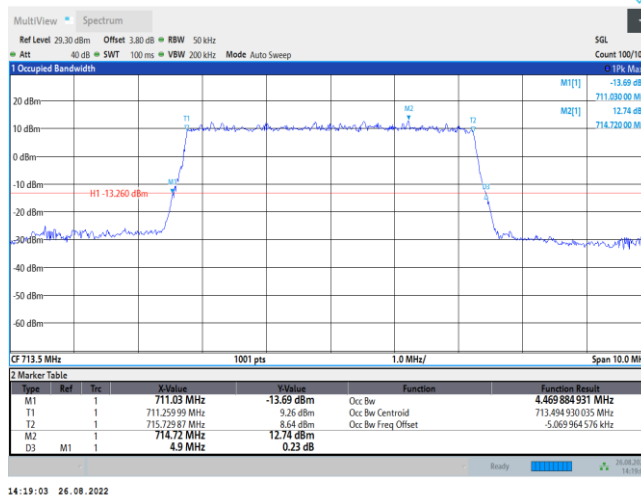
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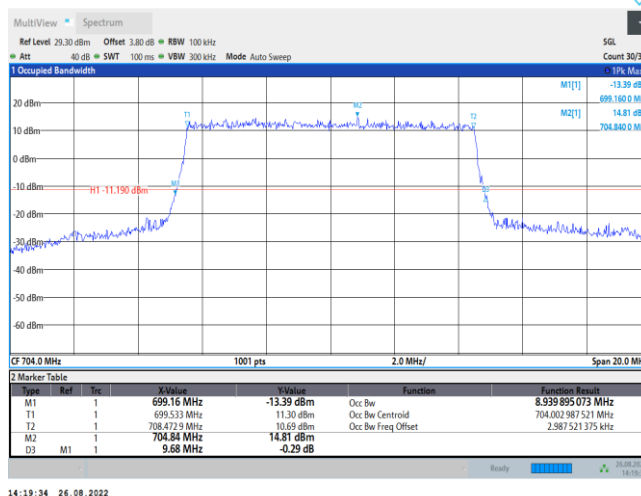
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Page: 31 of 53

Band12-5MHz-64QAM-23155-25RB#0



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

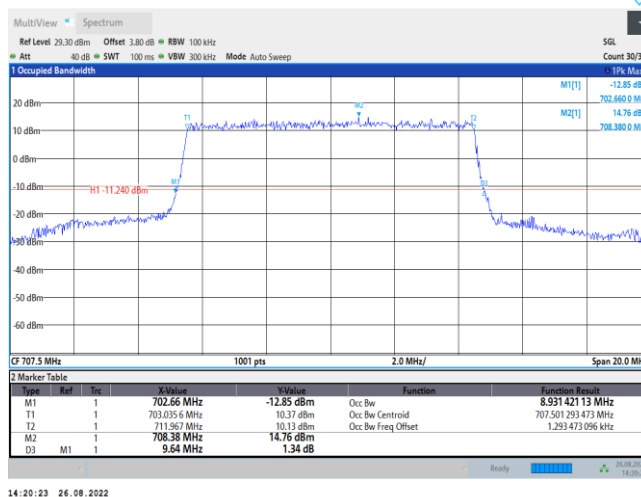


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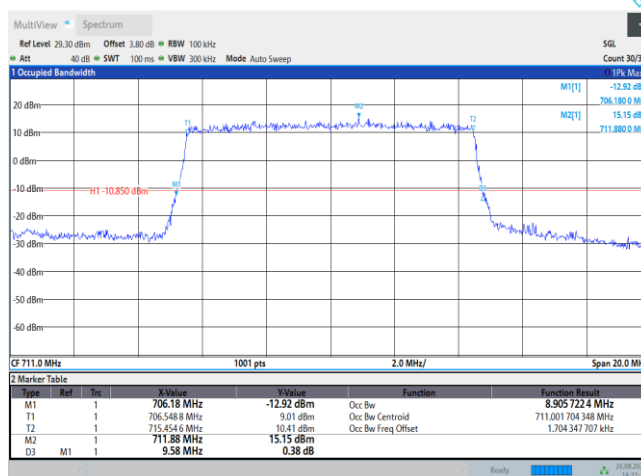
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Band12-10MHz-QPSK-23095-50RB#0



14:20:23 26.08.2022

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



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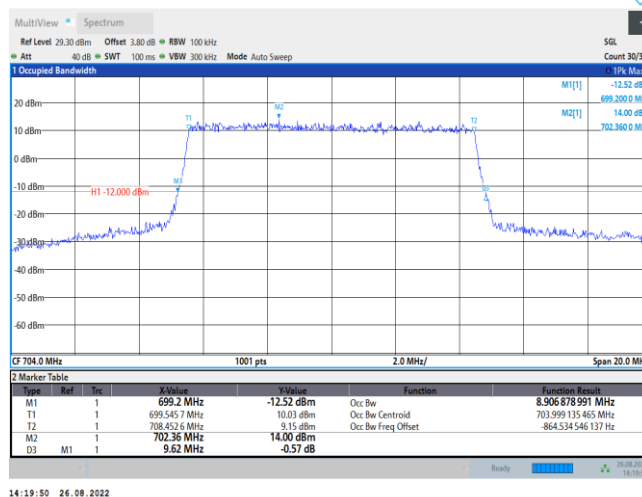
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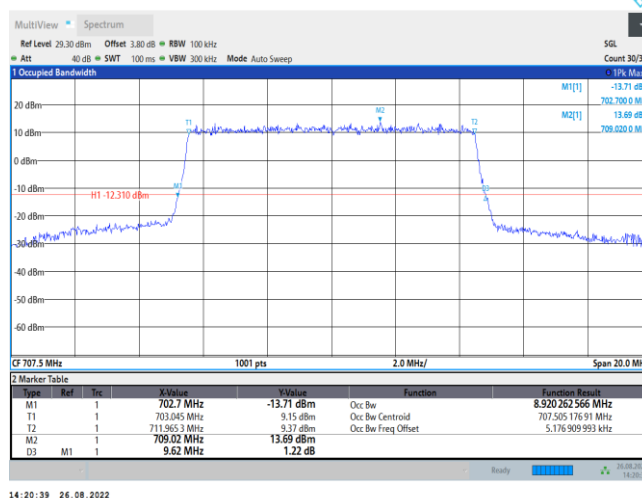
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Band12-10MHz-16QAM-23060-50RB#0



14:19:50 26.08.2022

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



14:20:39 26.08.2022



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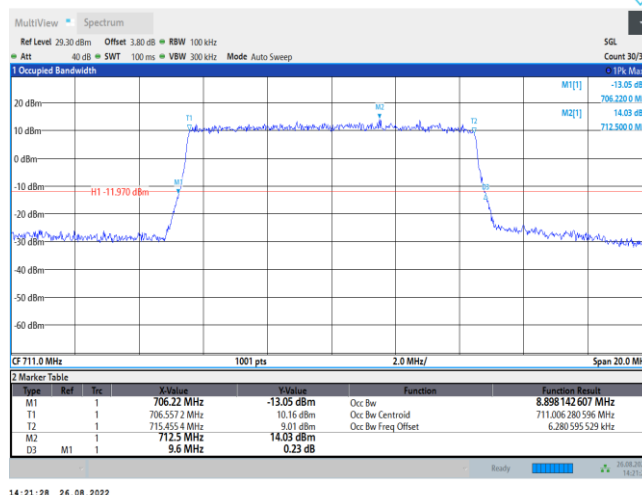
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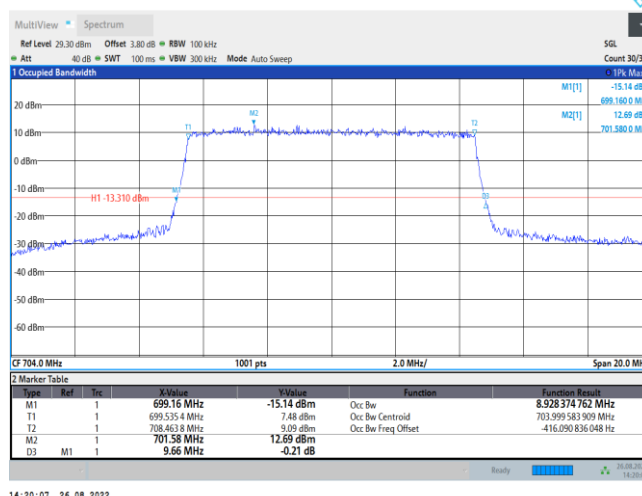
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Band12-10MHz-16QAM-23130-50RB#0



14:21:28 26.08.2022

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



14:20:07 26.08.2022



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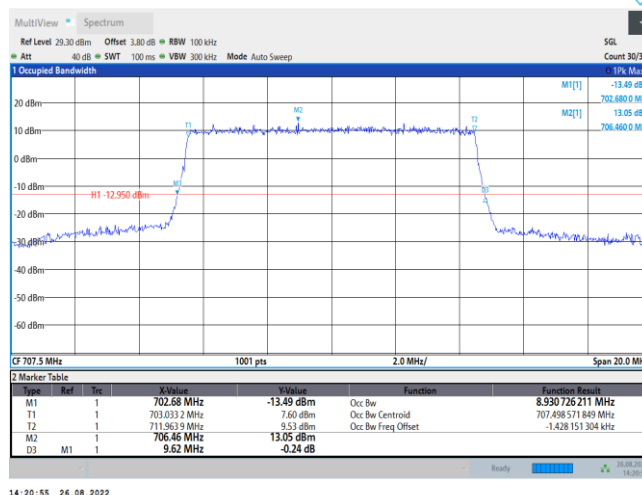
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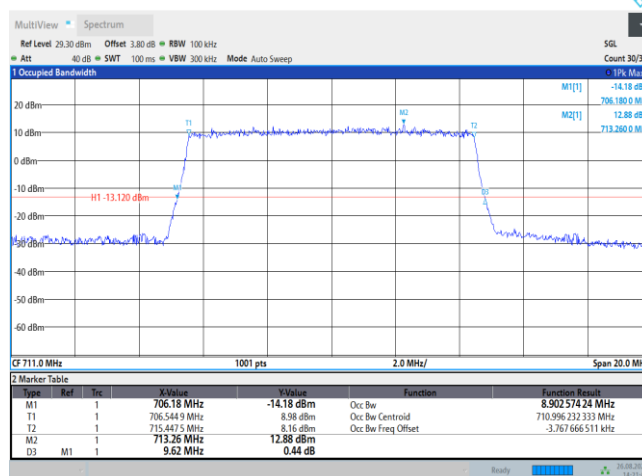
Page: 35 of 53

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



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



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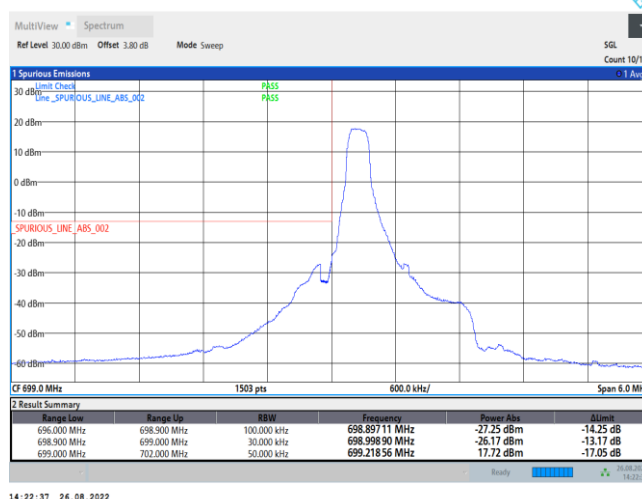
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 Rev.: 01
 Page: 36 of 53

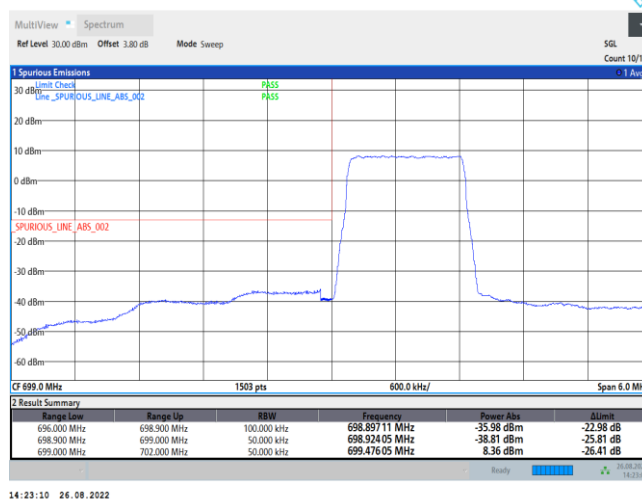
Band Edge

Test Graphs

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



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



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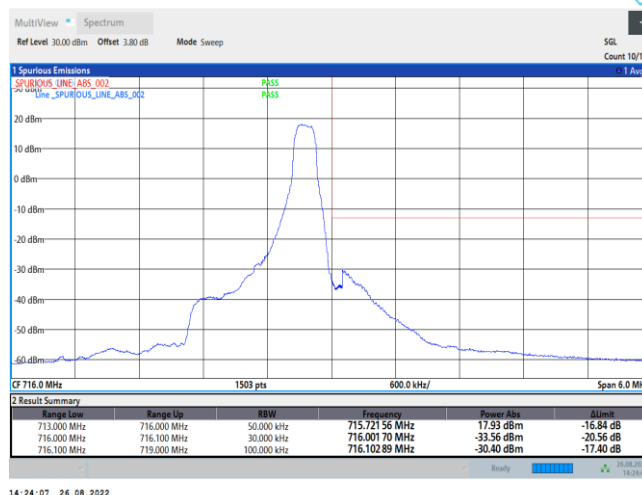
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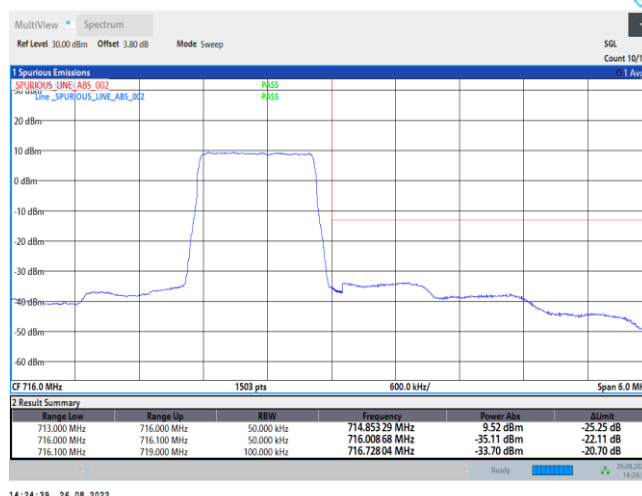
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Band12-1.4MHz-QPSK-23173-1RB#5



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



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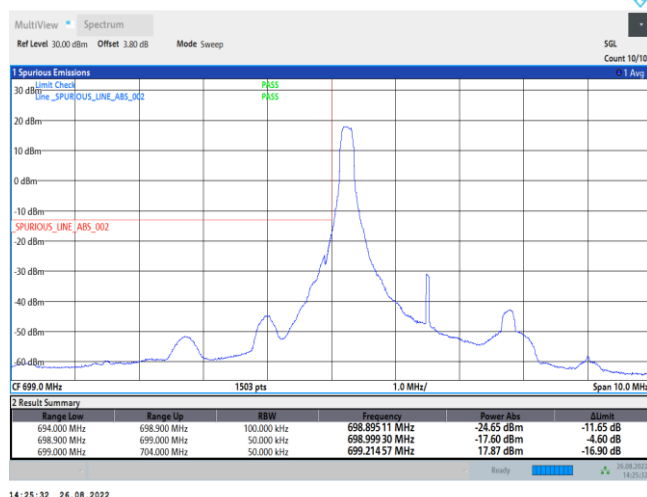
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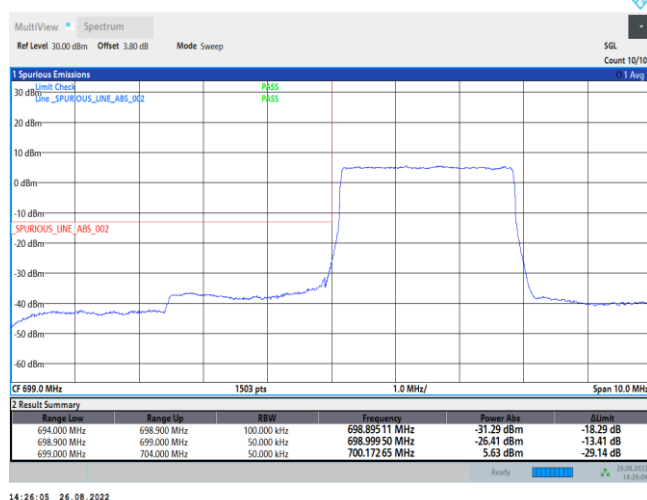
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Band12-3MHz-QPSK-23025-1RB#0



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



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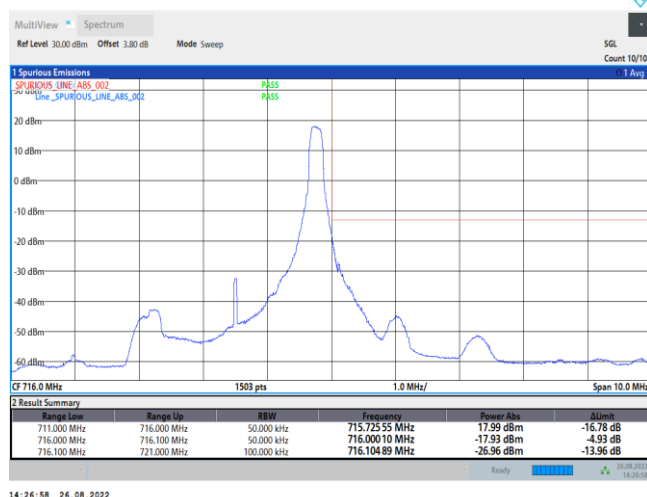
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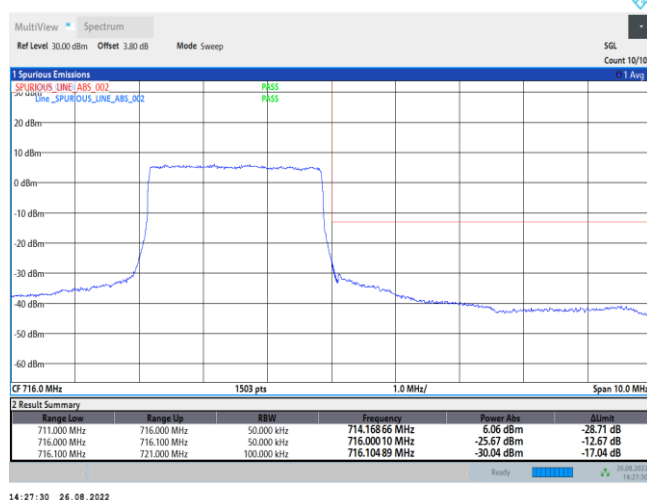
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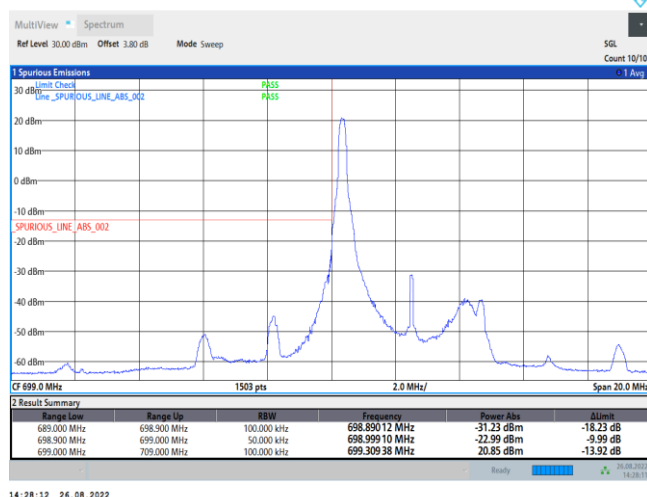
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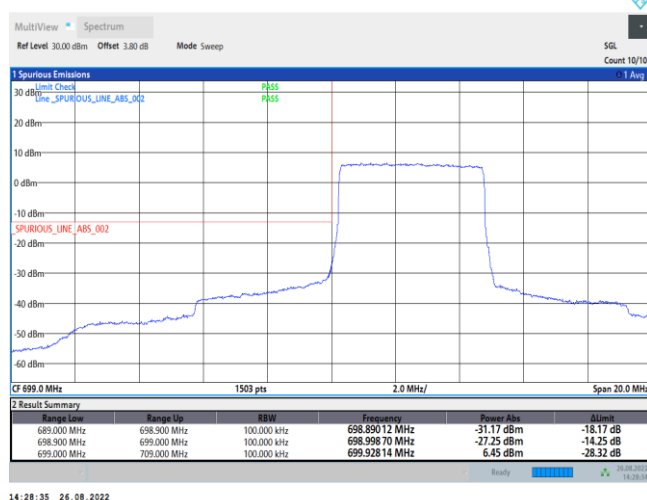
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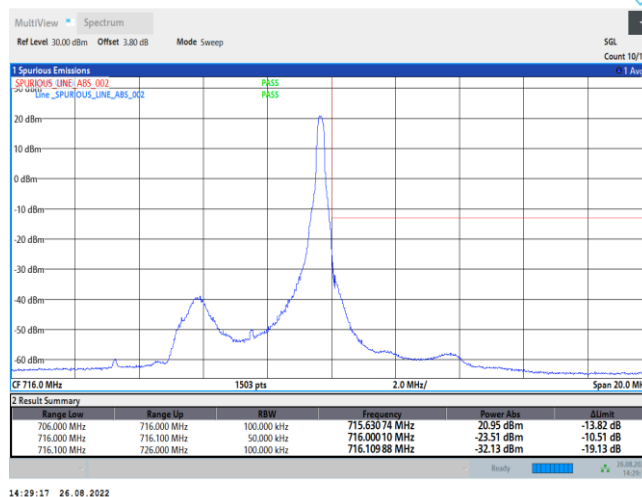
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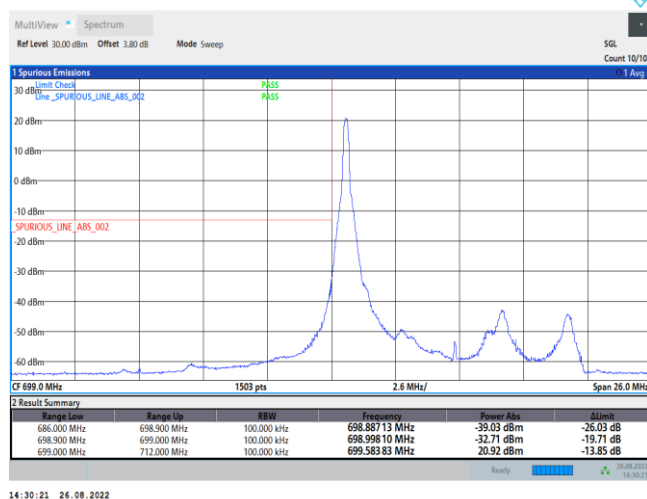
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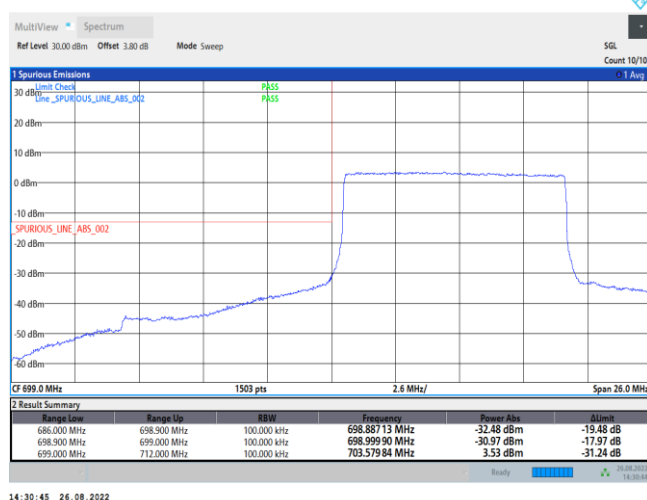
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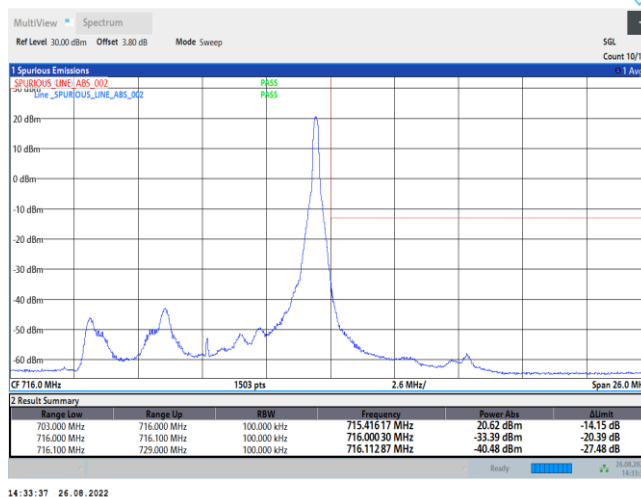
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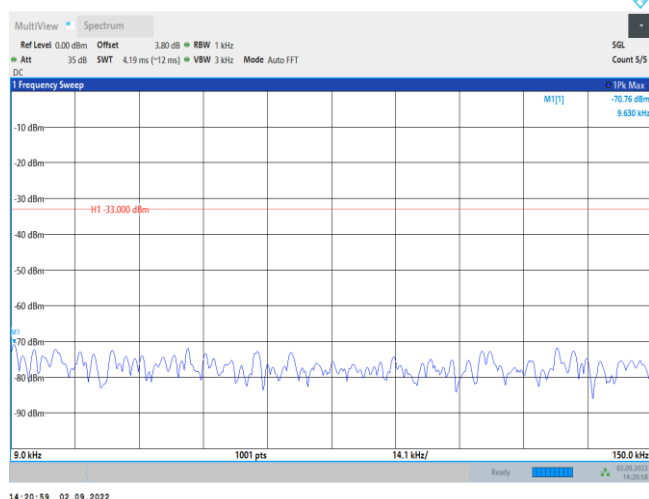
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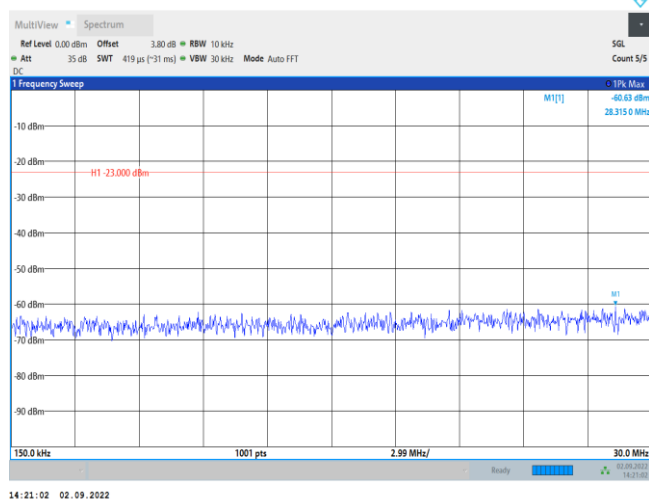
Conducted Spurious Emission

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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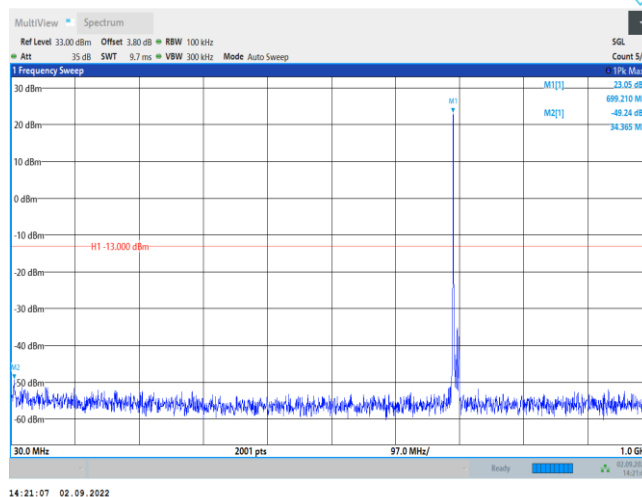
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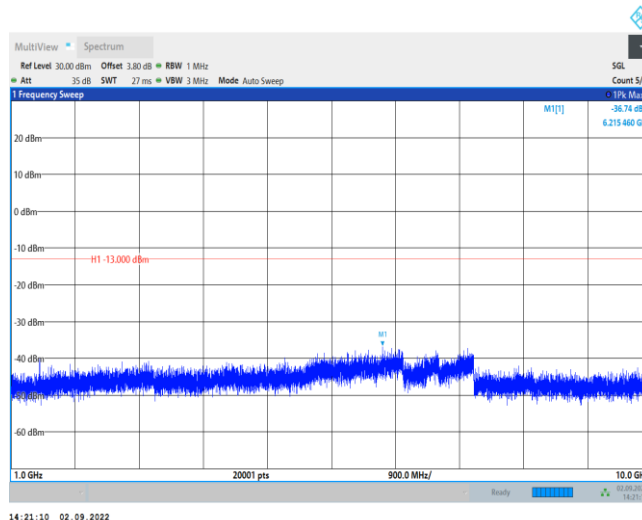
Rev.: 01

Page: 45 of 53

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



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



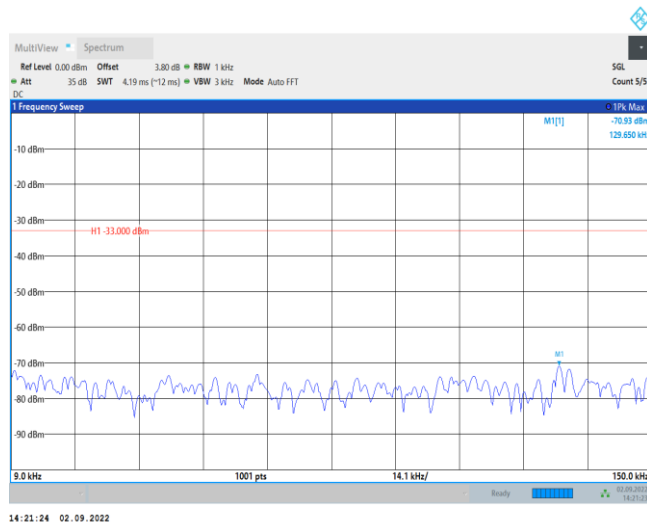
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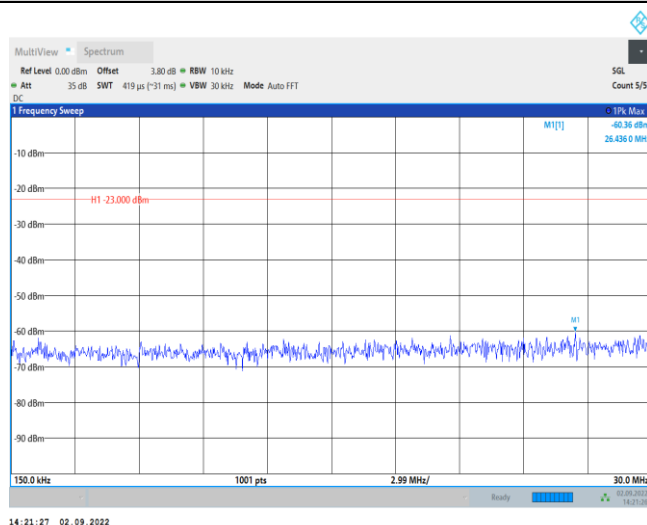
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



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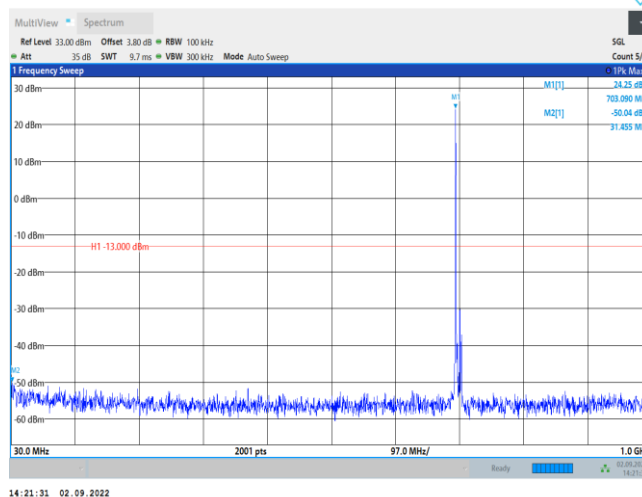
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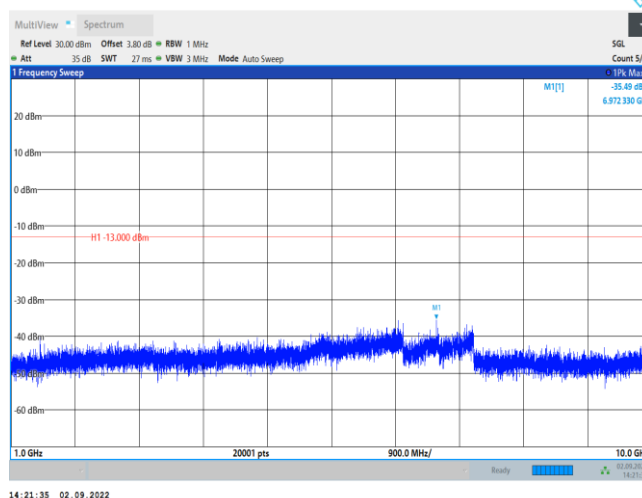
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Page: 47 of 53

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



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



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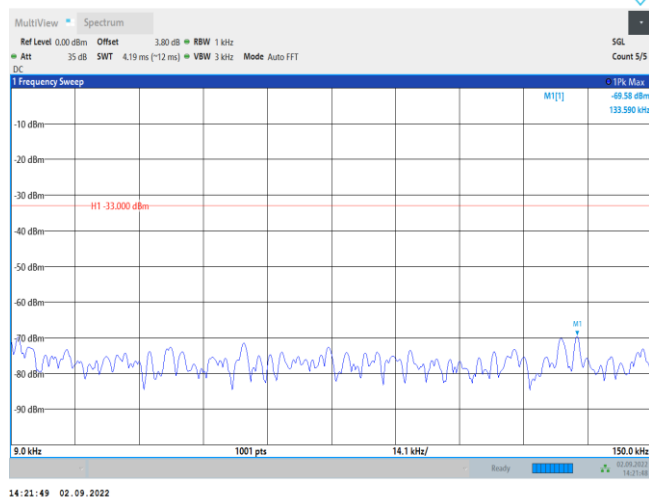
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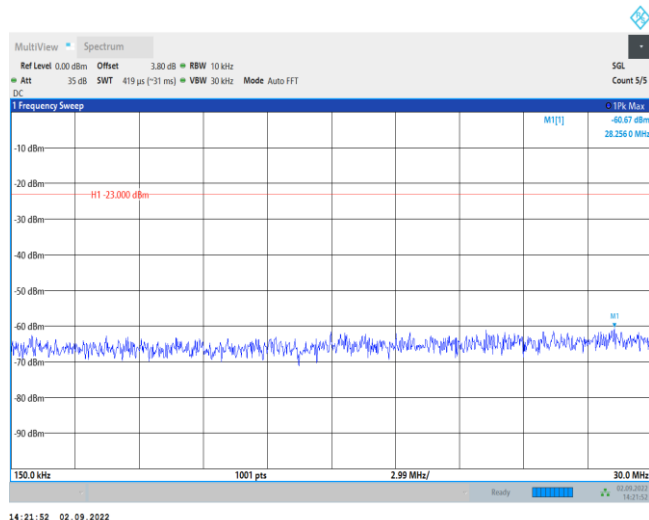
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Page: 48 of 53

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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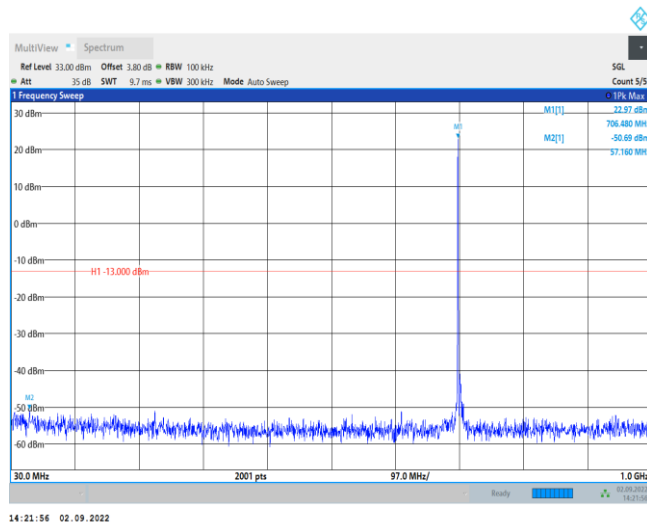
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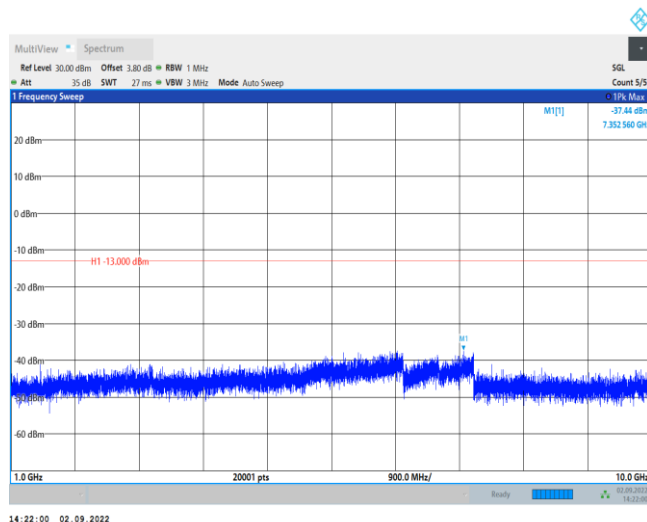
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Page: 49 of 53

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



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



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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 50 of 53

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	1399.18	52.28	-48.73	25.40	-66.31	-13.00	53.31	100	28	Horizontal
2	2098.77	53.36	-47.88	27.10	-62.68	-13.00	49.68	175	3	Horizontal
3	2798.36	51.51	-46.69	28.92	-61.52	-13.00	48.52	263	241	Horizontal
4	3497.95	51.51	-46.05	29.40	-60.40	-13.00	47.40	201	205	Horizontal
5	4197.54	49.46	-45.12	30.92	-60.00	-13.00	47.00	142	357	Horizontal
6	4897.13	51.91	-45.14	32.35	-56.13	-13.00	43.13	286	170	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	1399.18	52.30	-48.73	25.40	-66.29	-13.00	53.29	142	308	Vertical
2	2098.77	52.55	-47.88	27.10	-63.49	-13.00	50.49	268	341	Vertical
3	2798.36	50.50	-46.69	28.92	-62.53	-13.00	49.53	241	260	Vertical
4	3497.95	50.28	-46.05	29.40	-61.63	-13.00	48.63	253	3	Vertical
5	4197.54	48.85	-45.12	30.92	-60.61	-13.00	47.61	201	38	Vertical
6	4897.13	50.52	-45.14	32.35	-57.52	-13.00	44.52	247	178	Vertical



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 51 of 53

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	52.18	-48.72	25.41	-66.39	-13.00	51.06	241	40	Horizontal
2	2109.27	53.05	-47.87	27.12	-62.96	-13.00	49.96	175	194	Horizontal
3	2812.36	52.30	-46.69	28.96	-60.69	-13.00	47.69	284	100	Horizontal
4	3515.45	50.42	-46.03	29.44	-61.44	-13.00	48.44	163	51	Horizontal
5	4218.54	49.37	-45.11	30.95	-60.05	-13.00	47.05	201	51	Horizontal
6	4921.63	50.59	-45.12	32.41	-57.38	-13.00	44.38	146	347	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	1406.18	53.28	-48.72	25.41	-65.29	-13.00	52.29	214	72	Vertical
2	2109.27	51.71	-47.87	27.12	-64.30	-13.00	51.30	175	121	Vertical
3	2812.36	50.73	-46.69	28.96	-62.26	-13.00	49.26	206	226	Vertical
4	3515.45	51.22	-46.03	29.44	-60.64	-13.00	47.64	265	359	Vertical
5	4218.54	49.11	-45.11	30.95	-60.31	-13.00	47.31	241	3	Vertical
6	4921.63	50.30	-45.12	32.41	-57.67	-13.00	44.67	183	204	Vertical



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Report No.: SEWA2204000009RG01

Rev.: 01

Page: 52 of 53

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	53.49	-48.70	25.41	-65.05	-13.00	50.98	265	0	Horizontal
2	2119.77	51.61	-47.85	27.14	-64.36	-13.00	51.36	241	88	Horizontal
3	2826.36	51.06	-46.71	29.01	-61.90	-13.00	48.90	176	253	Horizontal
4	3532.95	50.18	-46.01	29.48	-61.61	-13.00	48.61	286	241	Horizontal
5	4239.54	49.95	-45.11	30.98	-59.44	-13.00	46.44	241	277	Horizontal
6	4946.13	50.72	-45.09	32.47	-57.15	-13.00	44.15	234	88	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	1413.18	54.35	-48.70	25.41	-64.19	-13.00	51.19	186	295	Vertical
2	2119.77	52.48	-47.85	27.14	-63.49	-13.00	50.49	265	330	Vertical
3	2826.36	52.24	-46.71	29.01	-60.72	-13.00	47.72	241	260	Vertical
4	3532.95	49.81	-46.01	29.48	-61.98	-13.00	48.98	178	3	Vertical
5	4239.54	50.77	-45.11	30.98	-58.62	-13.00	45.62	201	49	Vertical
6	4946.13	51.79	-45.09	32.47	-56.08	-13.00	43.08	163	213	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Rev.: 01

Page: 53 of 53

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	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.60	0.000848	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	2.00	0.002827	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-7.20	-0.010177	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-5.60	-0.007915	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	2.30	0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-3.10	-0.004382	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-1.40	-0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	1.30	0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.80	-0.001131	PASS

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