

Report No.: SUAR/2021/C000301

Rev.: 01

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# Appendix



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### ANT1:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power (dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	25.00	20.55	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	25.15	20.70	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	25.12	20.67	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	24.19	19.74	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.93	20.48	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.96	20.51	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	25.00	20.55	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	24.18	19.73	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.98	20.53	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	25.04	20.59	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	25.06	20.61	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	24.02	19.57	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	24.40	19.95	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	24.25	19.80	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	24.40	19.95	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	23.05	18.60	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	24.21	19.76	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	24.37	19.92	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	24.35	19.90	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	23.03	18.58	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	24.39	19.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	24.44	19.99	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	24.37	19.92	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.96	18.51	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.93	18.48	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	23.08	18.63	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	23.04	18.59	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	22.11	17.66	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.84	18.39	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.89	18.44	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.92	18.47	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	22.12	17.67	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.91	18.46	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.98	18.53	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	23.01	18.56	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.94	17.49	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	22.32	17.87	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	22.20	17.75	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	22.31	17.86	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	20.99	16.54	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	22.13	17.68	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	22.29	17.84	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	22.27	17.82	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	20.98	16.53	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	22.34	17.89	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	22.39	17.94	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	22.30	17.85	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	20.86	16.41	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.77	20.32	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.66	20.21	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.79	20.34	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.88	19.43	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.67	20.22	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.73	20.28	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.75	20.30	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.78	19.33	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.59	20.14	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.77	20.32	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.71	20.26	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.74	19.29	34.77	PASS



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Band12	3MHz	16QAM	23025	1RB#0	24.19	19.74	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.93	19.48	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.89	19.44	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.93	18.48	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	24.29	19.84	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.88	19.43	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	24.07	19.62	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.84	18.39	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	24.16	19.71	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	24.16	19.71	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.99	19.54	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.61	18.16	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.72	18.27	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.58	18.13	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.69	18.24	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.79	17.34	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.62	18.17	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.63	18.18	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.68	18.23	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.70	17.25	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.52	18.07	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.68	18.23	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.65	18.20	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.68	17.23	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	22.11	17.66	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	21.88	17.43	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	21.81	17.36	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	20.85	16.40	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	22.22	17.77	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	21.80	17.35	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	21.98	17.53	34.77	PASS
Band12	3MHz	256QAM	23095	15RB#0	20.76	16.31	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	22.10	17.65	34.77	PASS



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Band12	3MHz	256QAM	23165	1RB#8	22.11	17.66	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	21.89	17.44	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	20.51	16.06	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	25.01	20.56	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.97	20.52	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.98	20.53	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	24.12	19.67	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.93	20.48	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	25.10	20.65	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.97	20.52	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	24.02	19.57	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.94	20.49	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.92	20.47	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	25.06	20.61	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	24.12	19.67	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	24.37	19.92	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	24.36	19.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	24.42	19.97	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	23.10	18.65	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	24.19	19.74	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	24.40	19.95	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	24.41	19.96	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	23.16	18.71	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	24.28	19.83	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	24.46	20.01	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	24.38	19.93	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	23.06	18.61	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.71	18.26	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.61	18.16	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.69	18.24	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.79	17.34	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.57	18.12	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.66	18.21	34.77	PASS



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Band12	5MHz	64QAM	23095	1RB#24	22.69	18.24	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.71	17.26	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.53	18.08	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.71	18.26	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.64	18.19	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.69	17.24	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	22.10	17.65	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	21.87	17.42	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	21.79	17.34	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	20.85	16.40	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	22.21	17.76	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	21.82	17.37	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	22.02	17.57	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	20.78	16.33	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	22.10	17.65	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	22.10	17.65	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	21.94	17.49	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	20.55	16.10	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	25.00	20.55	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.74	20.29	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.99	20.54	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	24.17	19.72	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	25.23	20.78	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.96	20.51	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	25.06	20.61	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	24.23	19.78	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.89	20.44	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	25.06	20.61	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	25.02	20.57	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	24.21	19.76	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.81	19.36	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	24.02	19.57	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.77	19.32	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	23.00	18.55	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.76	19.31	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	24.32	19.87	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.89	19.44	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.91	18.46	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	24.08	19.63	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.81	19.36	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	24.01	19.56	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	23.05	18.60	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.67	18.22	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.60	18.15	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.72	18.27	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.82	17.37	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.61	18.16	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.64	18.19	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.68	18.23	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.69	17.24	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.51	18.06	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.70	18.25	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.64	18.19	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.64	17.19	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	22.13	17.68	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	21.87	17.42	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	21.82	17.37	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	20.86	16.41	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	22.19	17.74	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	21.78	17.33	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	21.99	17.54	34.77	PASS
Band12	10MHz	256QAM	23095	50RB#0	20.79	16.34	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	22.06	17.61	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	22.08	17.63	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	21.90	17.45	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	20.54	16.09	34.77	PASS



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Rev.: 01  
Page: 8 of 86



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Wireless Laboratory

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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	5.44	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.32	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.40	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.04	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.00	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.10	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.56	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.56	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.54	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.54	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.48	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.52	13	PASS



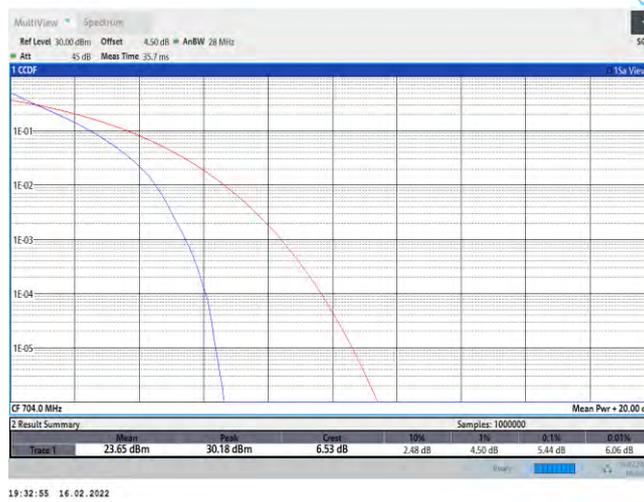
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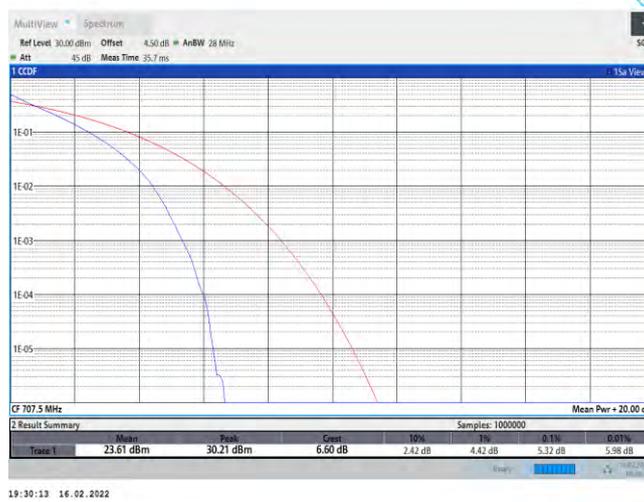
Test Graphs

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



19:32:55 16.02.2022

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



19:30:13 16.02.2022

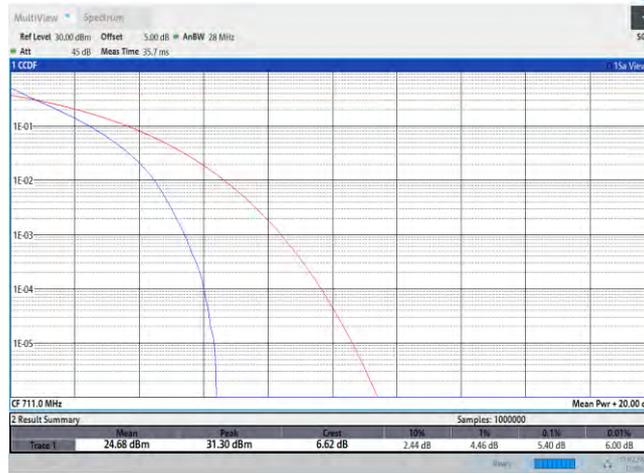


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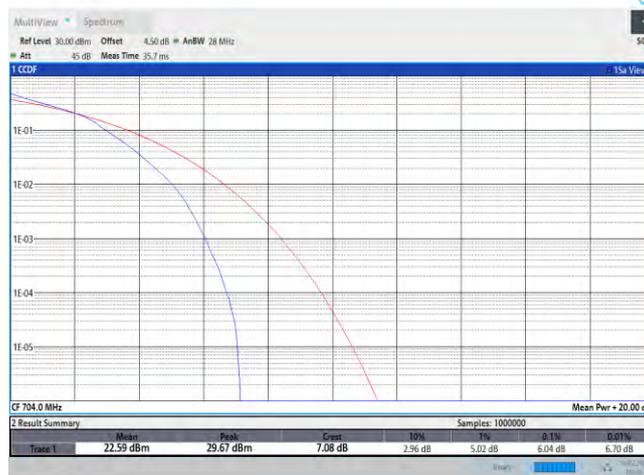
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Band12-10MHz-QPSK-23130-50RB#0



17:09:54 17.02.2022

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



19:33:11 16.02.2022

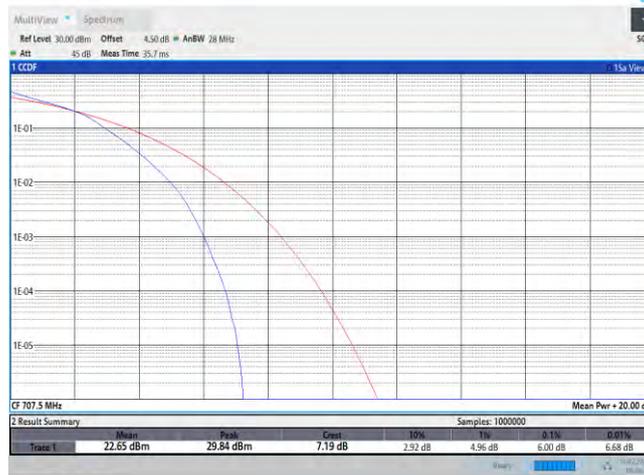


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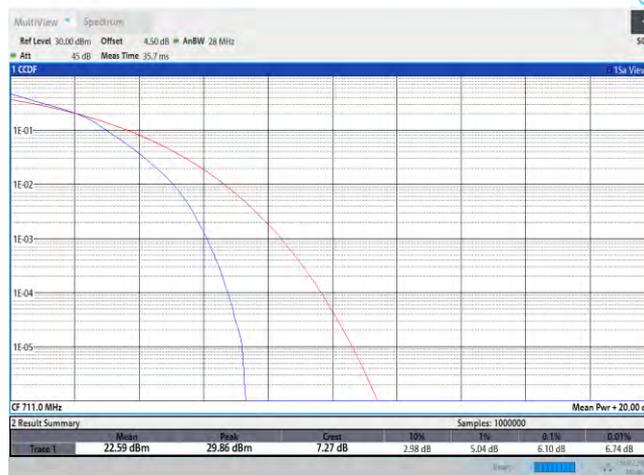
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Band12-10MHz-16QAM-23095-50RB#0



19:30:29 16.02.2022

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



19:34:21 16.02.2022

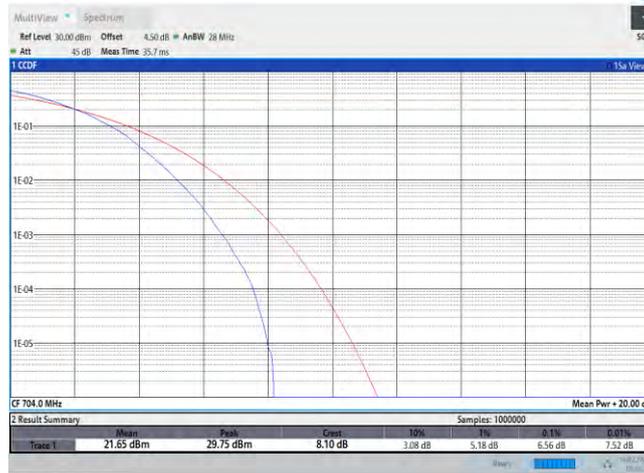


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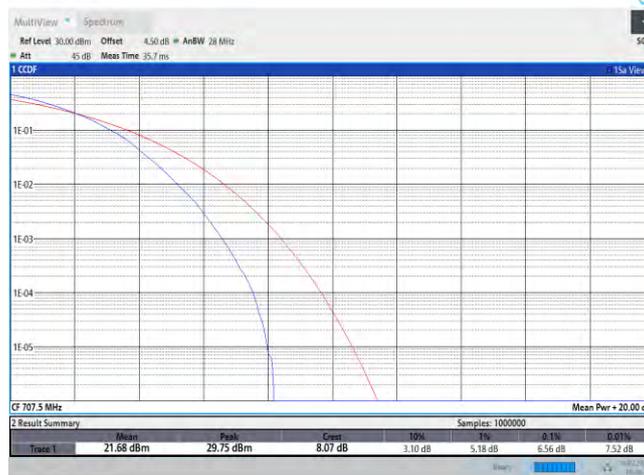
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Band12-10MHz-64QAM-23060-50RB#0



19:33:27 16.02.2022

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



19:30:46 16.02.2022

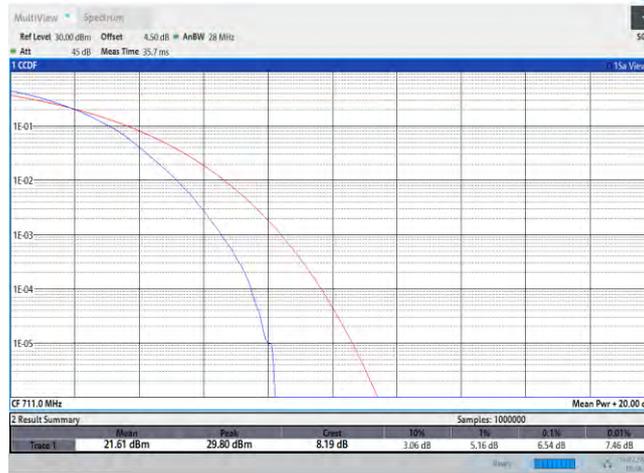


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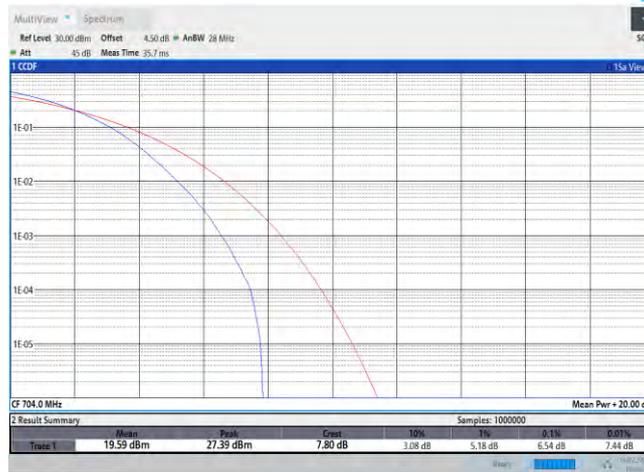
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Band12-10MHz-64QAM-23130-50RB#0



19:34:37 16.02.2022

Band12-10MHz-256QAM-23060-50RB#0



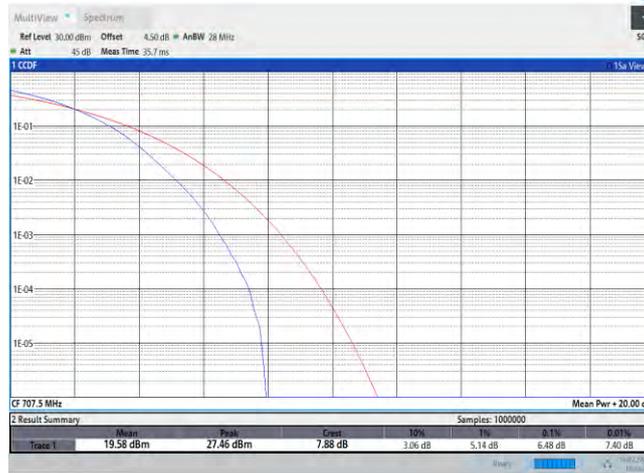
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Band12-10MHz-256QAM-23095-50RB#0



19:31:02 16.02.2022

Band12-10MHz-256QAM-23130-50RB#0



19:34:54 16.02.2022



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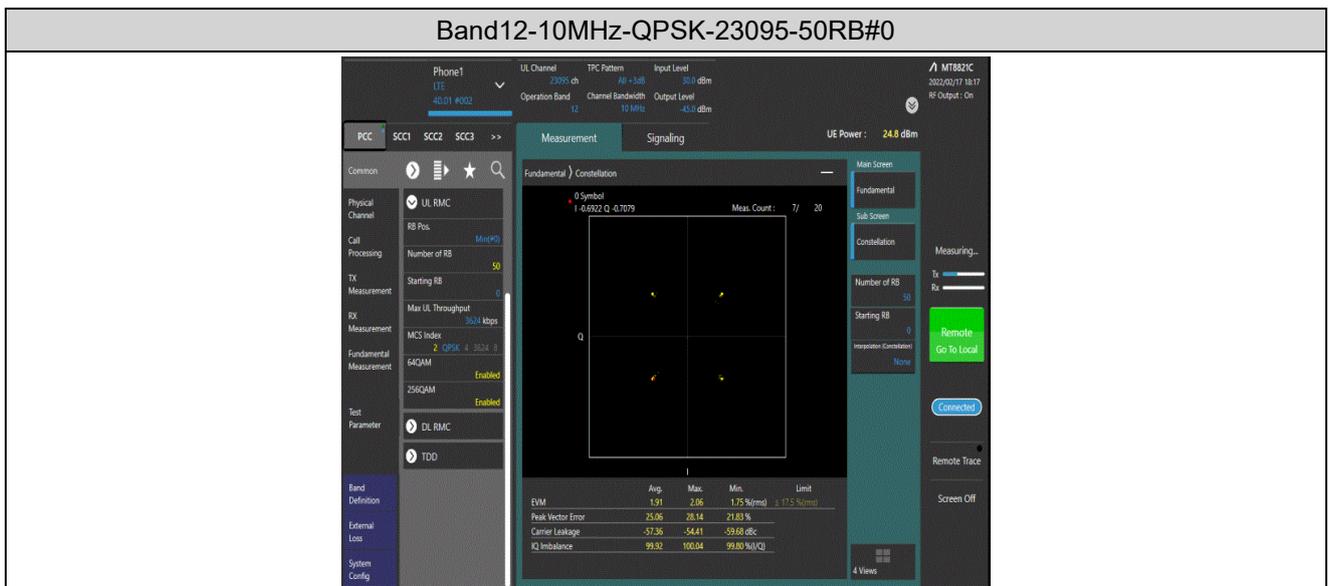
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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	256QAM	23095	50RB#0	PASS	PASS

### Test Graphs



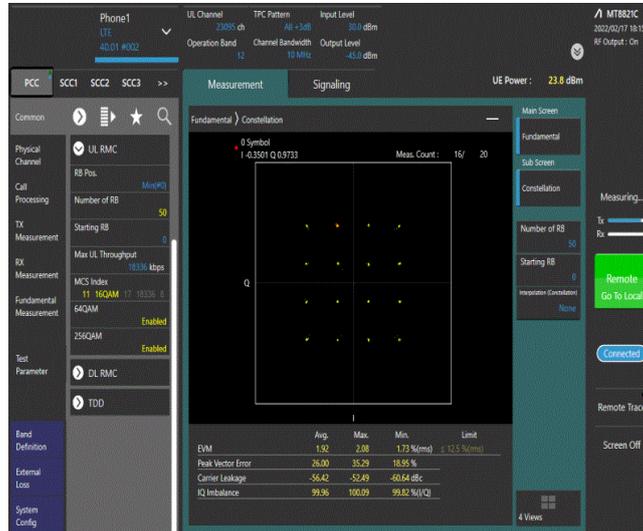
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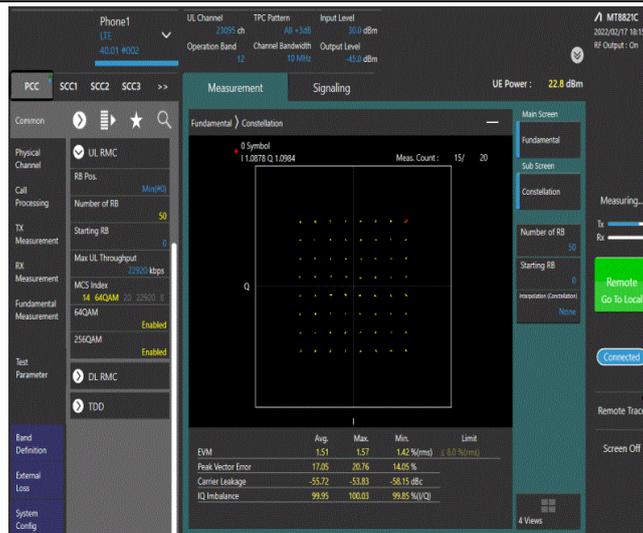
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Band12-10MHz-16QAM-23095-50RB#0



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

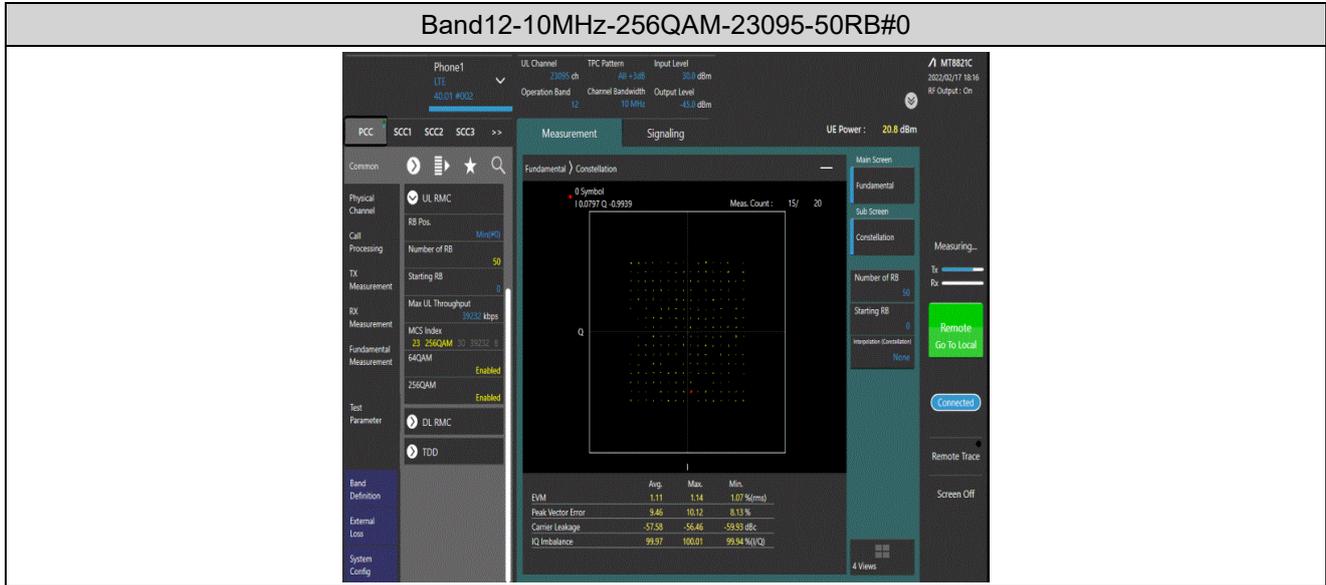


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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.094	1.24	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.089	1.24	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.093	1.25	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.093	1.25	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.094	1.25	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.093	1.25	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	1.085	1.24	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.088	1.24	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	1.086	1.23	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.702	3.02	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.701	3.02	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.698	3.01	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.692	2.99	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.693	3.01	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.695	2.98	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.695	2.99	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.694	2.98	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.691	2.97	PASS
Band12	3MHz	256QAM	23025	15RB#0	2.687	3.01	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.689	3.00	PASS
Band12	3MHz	256QAM	23165	15RB#0	2.691	3.02	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.471	4.90	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.464	4.87	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.467	4.88	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.472	4.90	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.469	4.89	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.471	4.90	PASS



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Band12	5MHz	64QAM	23035	25RB#0	4.474	4.88	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.475	4.87	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.474	4.87	PASS
Band12	5MHz	256QAM	23035	25RB#0	4.469	4.85	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.47	4.87	PASS
Band12	5MHz	256QAM	23155	25RB#0	4.47	4.87	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.935	9.64	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.919	9.68	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.929	9.66	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.931	9.70	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.914	9.70	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.905	9.66	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.949	9.68	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.91	9.64	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.932	9.64	PASS
Band12	10MHz	256QAM	23060	50RB#0	8.935	9.64	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.921	9.58	PASS
Band12	10MHz	256QAM	23130	50RB#0	8.921	9.64	PASS



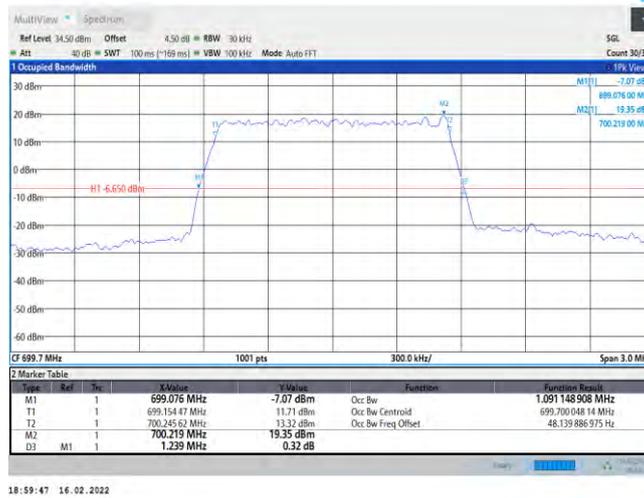
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Test Graphs

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



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

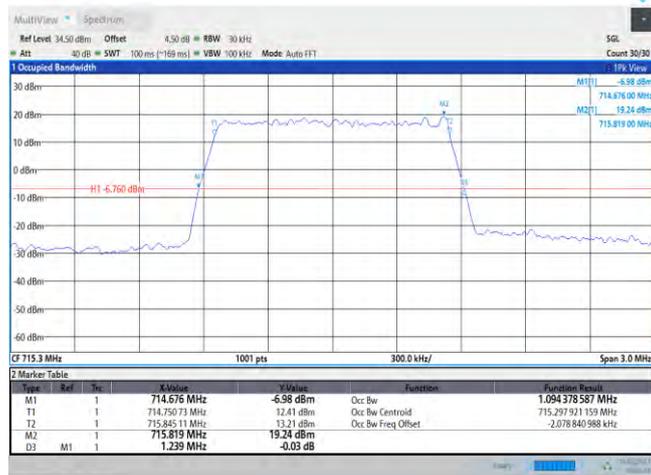


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Band12-1.4MHz-QPSK-23173-6RB#0



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



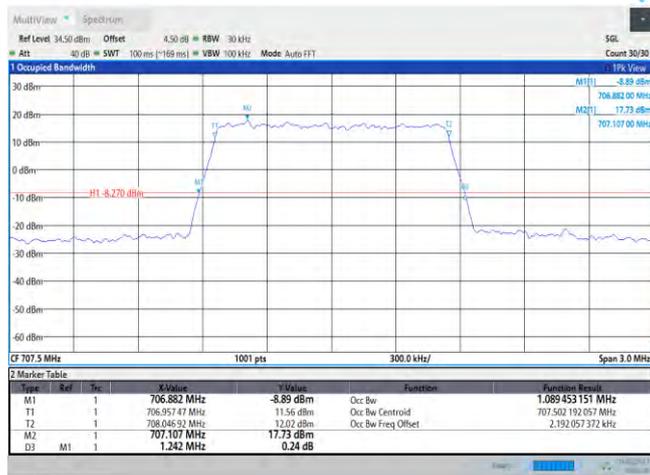
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Band12-1.4MHz-16QAM-23095-6RB#0



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



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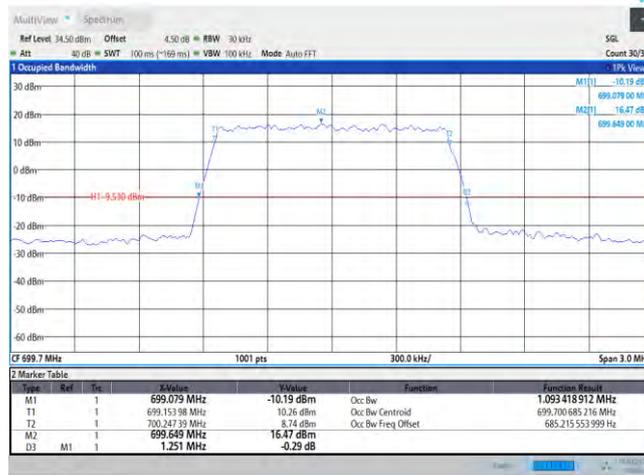
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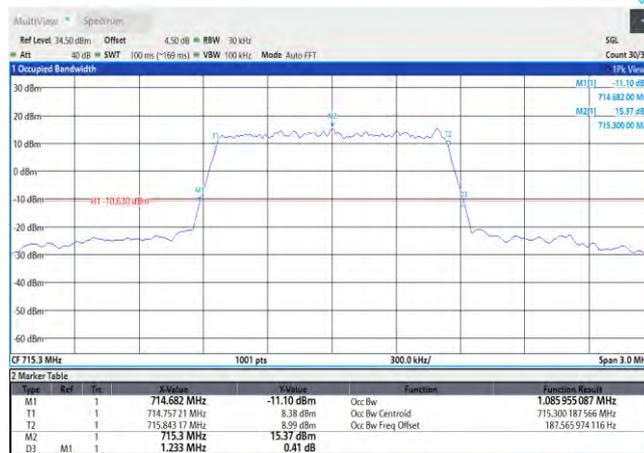
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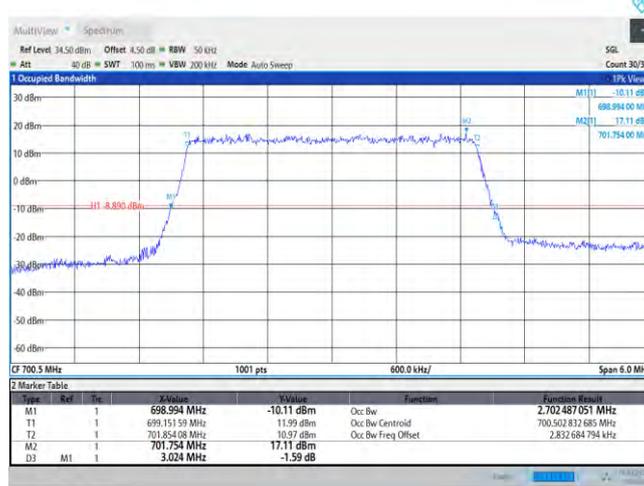


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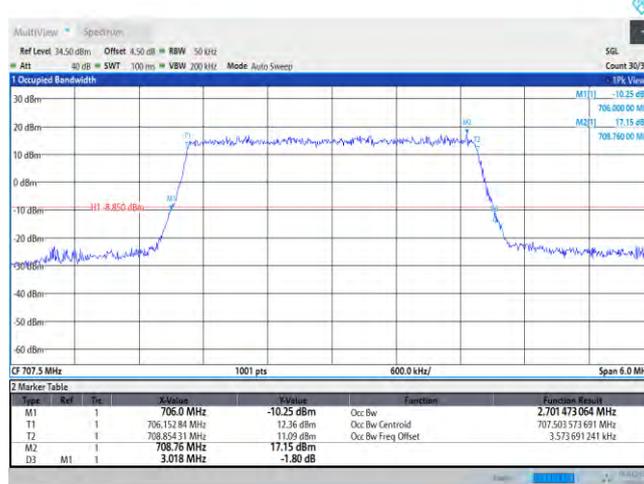
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Band12-3MHz-QPSK-23025-15RB#0



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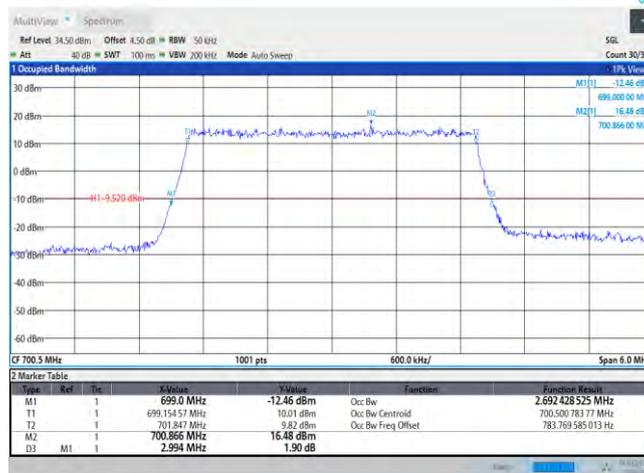
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Band12-3MHz-QPSK-23165-15RB#0



19:08:25 16.02.2022

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



19:05:42 16.02.2022



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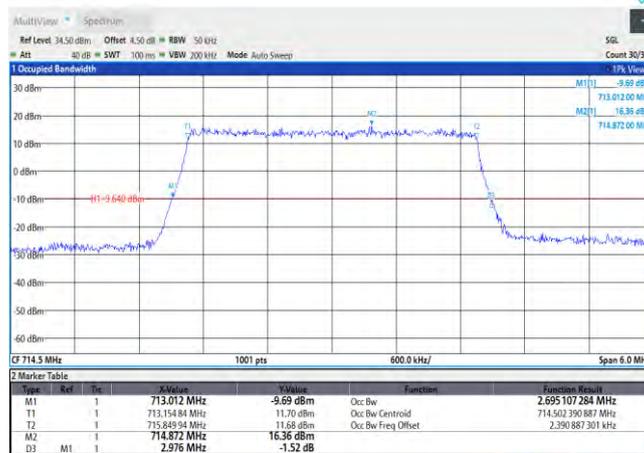
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Band12-3MHz-16QAM-23095-15RB#0



19:07:17 16.02.2022

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



19:08:44 16.02.2022

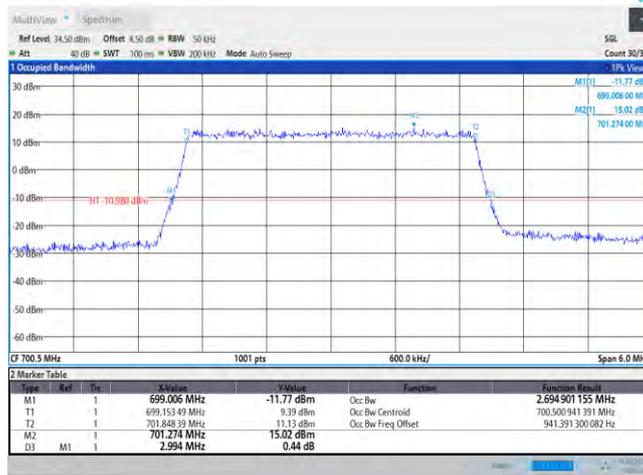


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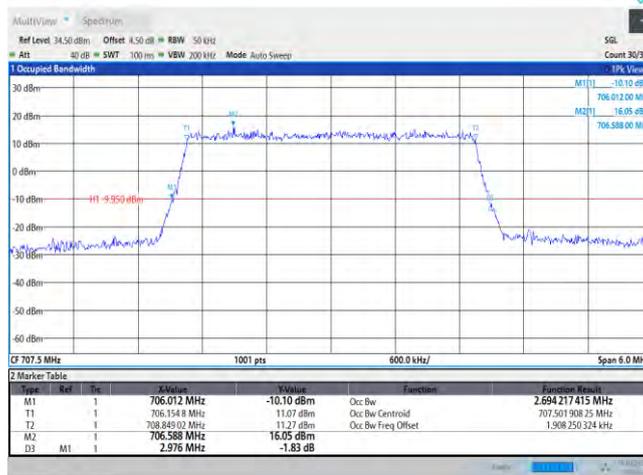
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Band12-3MHz-64QAM-23025-15RB#0



19:06:00 16.02.2022

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



19:07:36 16.02.2022

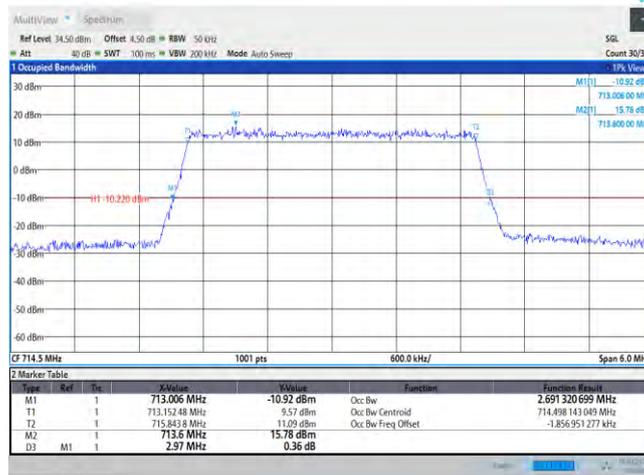


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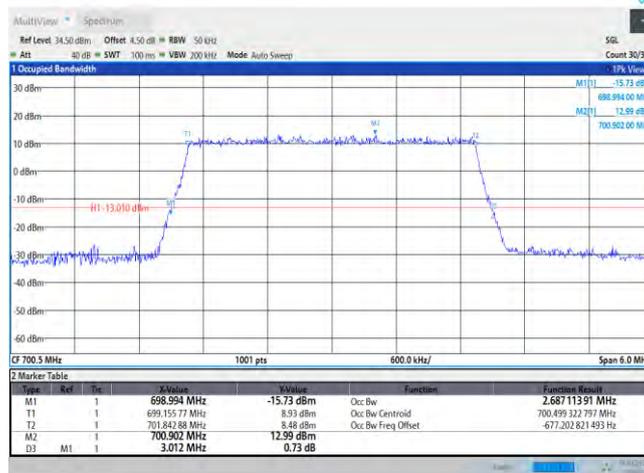
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Band12-3MHz-64QAM-23165-15RB#0



19:09:02 16.02.2022

Band12-3MHz-256QAM-23025-15RB#0



19:06:19 16.02.2022

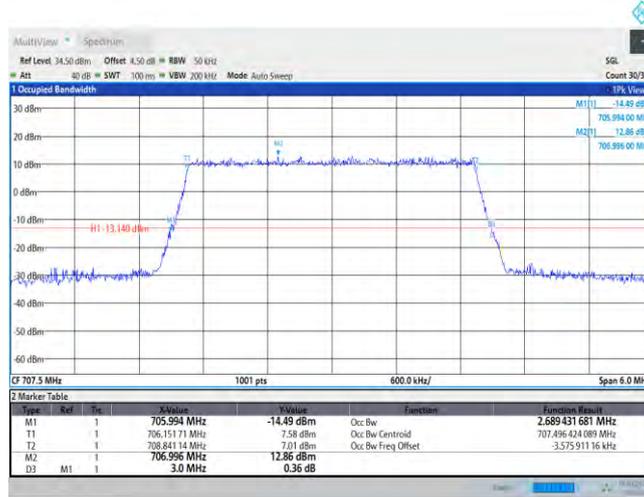


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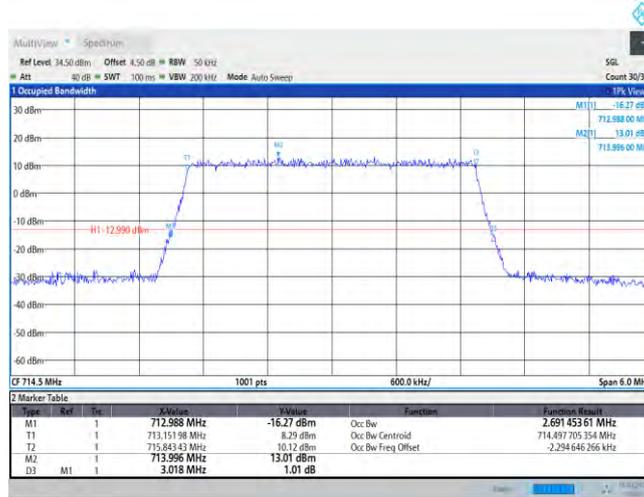
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Band12-3MHz-256QAM-23095-15RB#0



19:07:54 16.02.2022

Band12-3MHz-256QAM-23165-15RB#0



19:09:20 16.02.2022

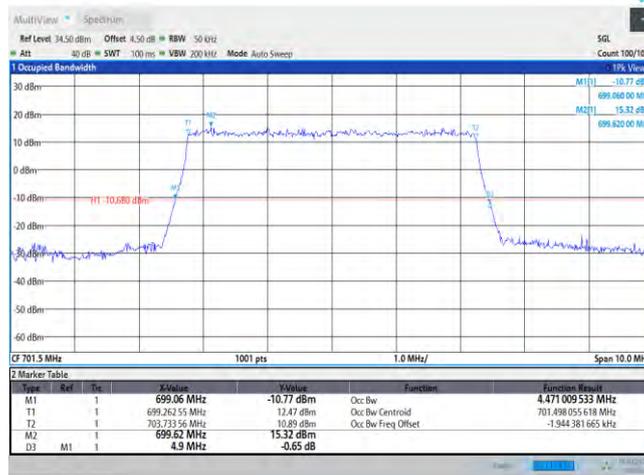


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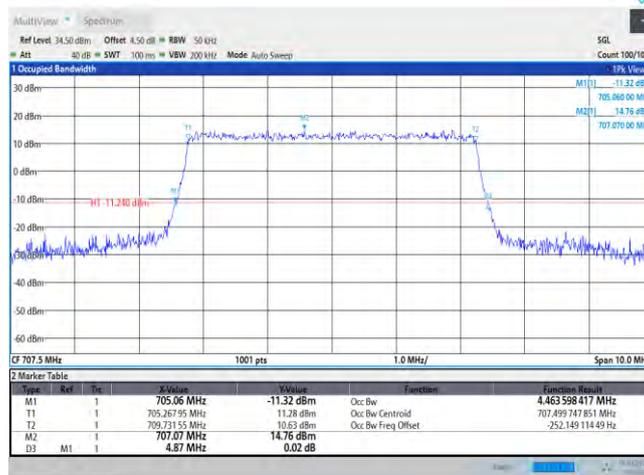
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Band12-5MHz-QPSK-23035-25RB#0



19:10:20 16.02.2022

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



19:12:01 16.02.2022

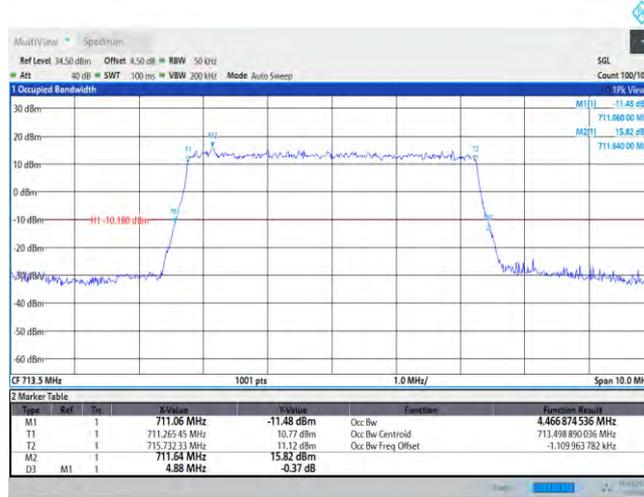


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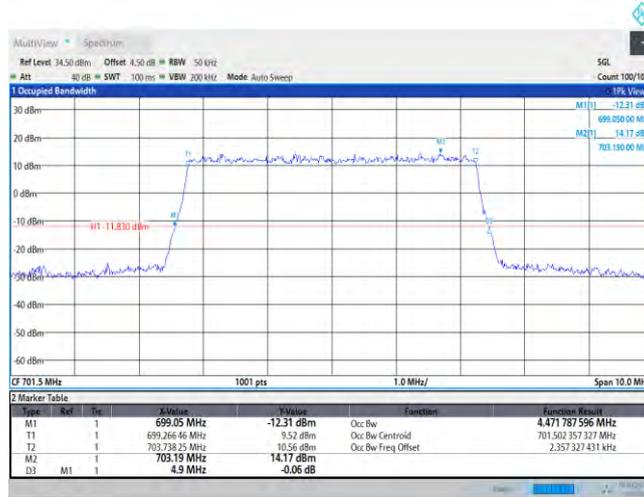
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Band12-5MHz-QPSK-23155-25RB#0



19:14:02 16.02.2022

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



19:10:45 16.02.2022



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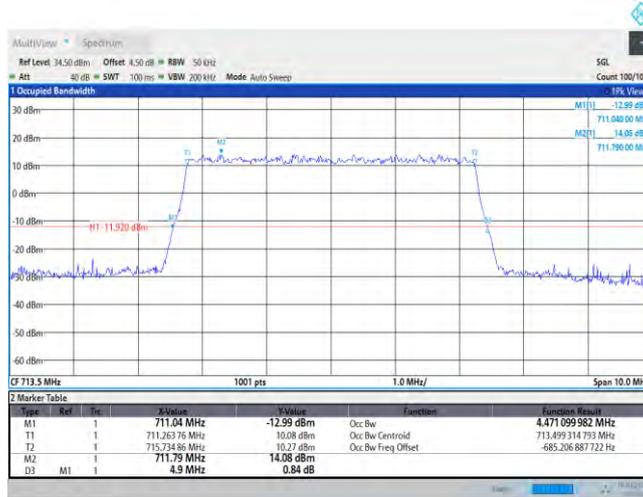
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Band12-5MHz-16QAM-23095-25RB#0



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



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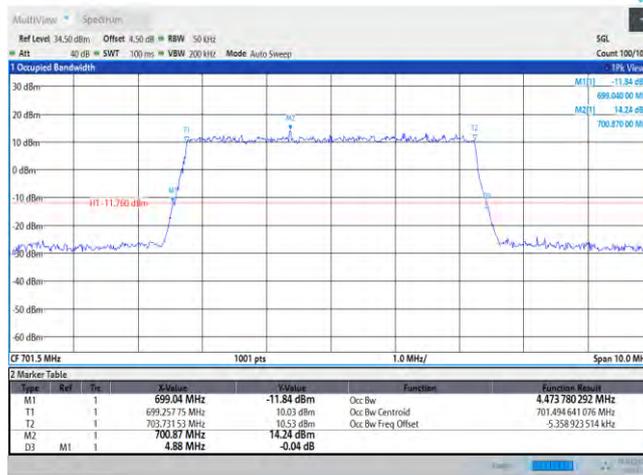


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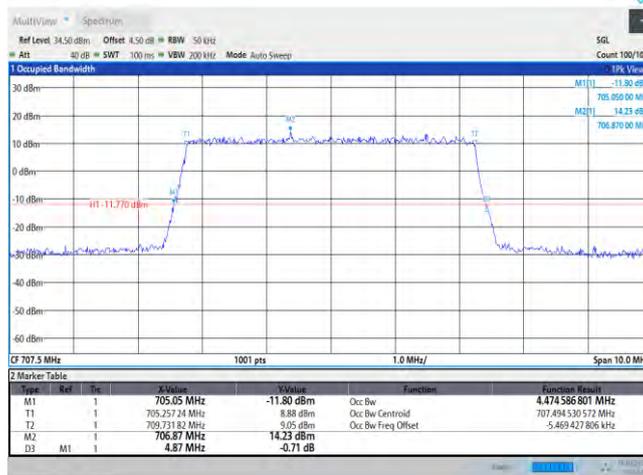
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Band12-5MHz-64QAM-23035-25RB#0



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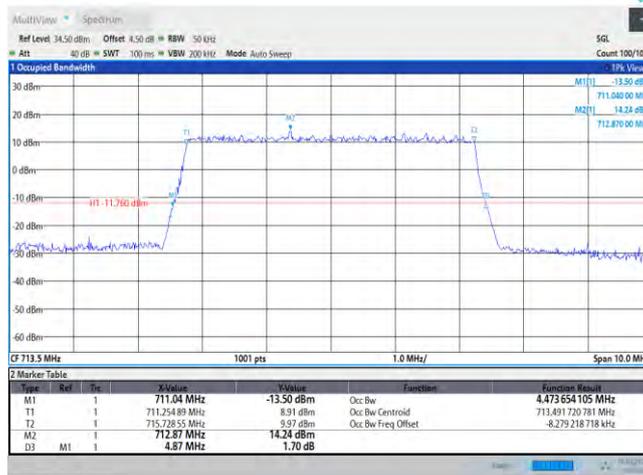
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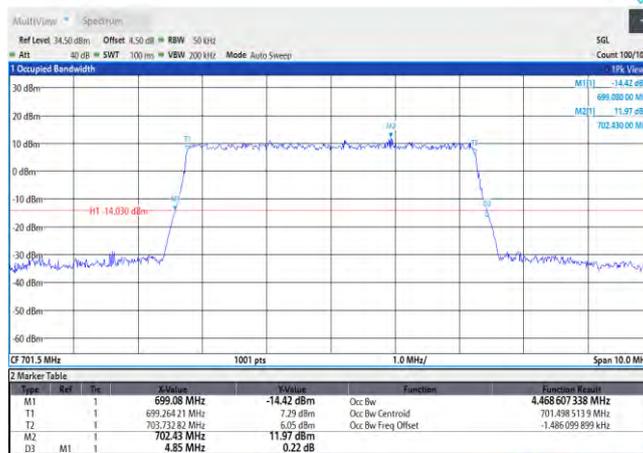
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Band12-5MHz-256QAM-23035-25RB#0



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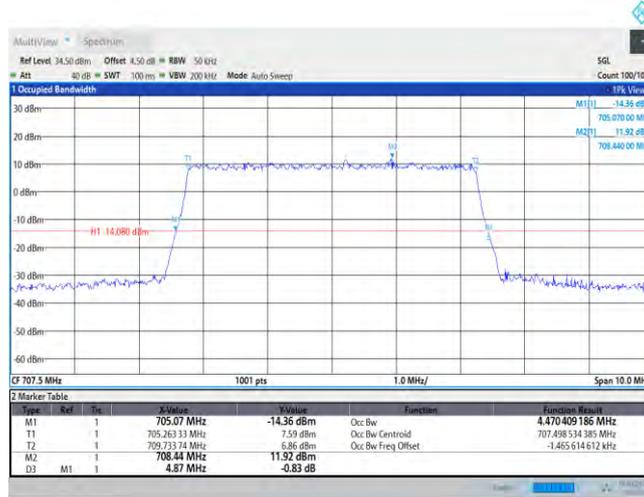


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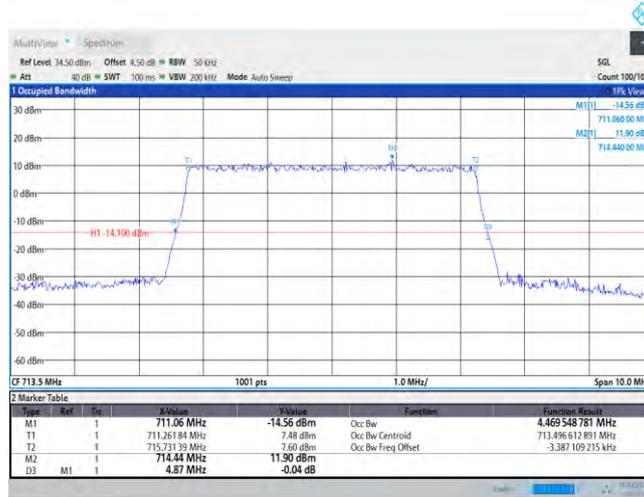
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Band12-5MHz-256QAM-23155-25RB#0



19:15:18 16.02.2022



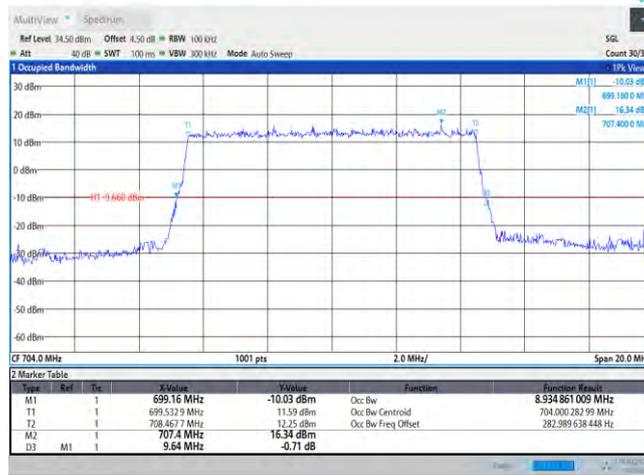
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Band12-10MHz-QPSK-23060-50RB#0



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



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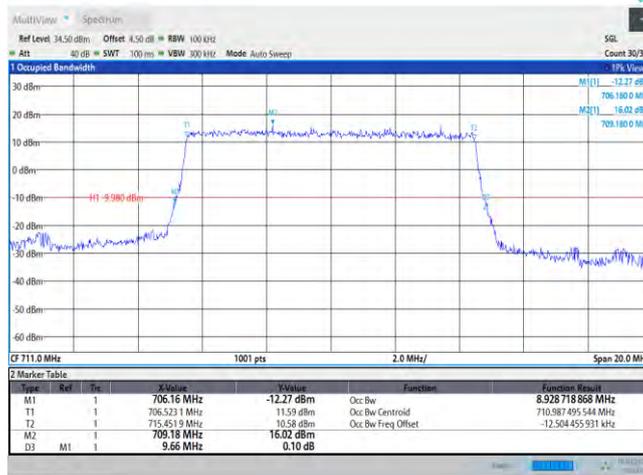


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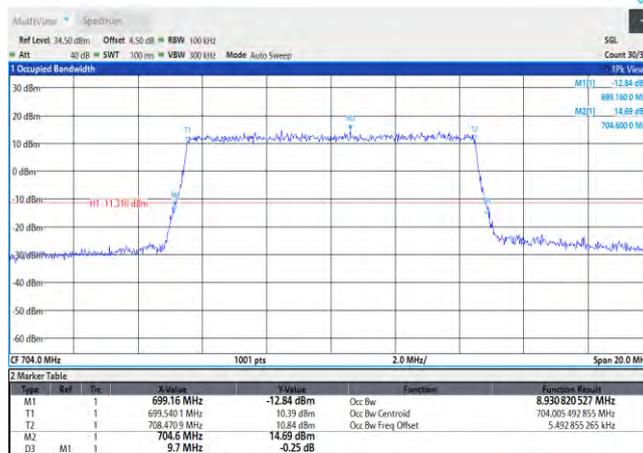
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Band12-10MHz-QPSK-23130-50RB#0



19:24:18 16.02.2022

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



19:18:46 16.02.2022



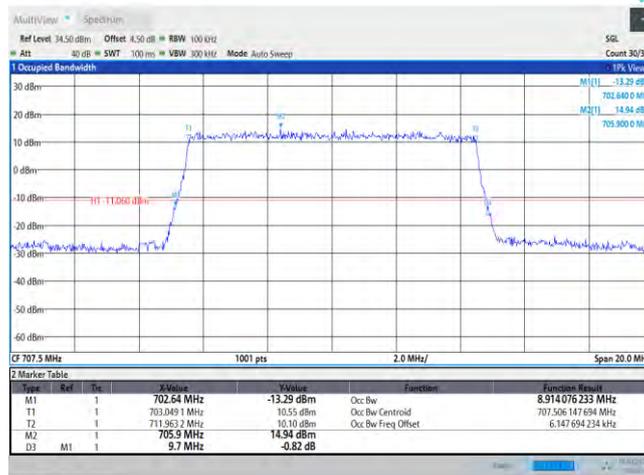
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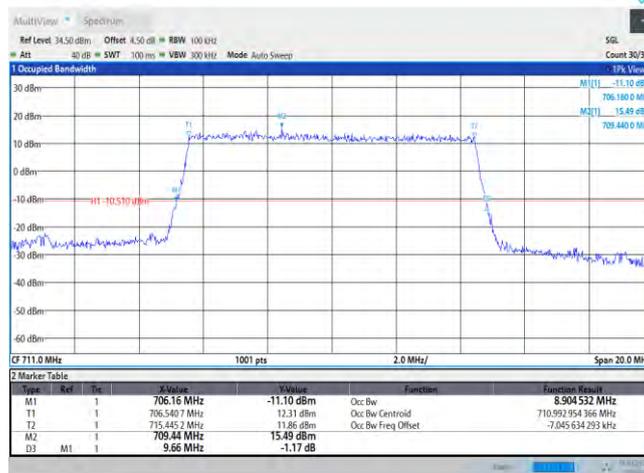
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Band12-10MHz-16QAM-23095-50RB#0



19:23:13 16.02.2022

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



19:24:37 16.02.2022

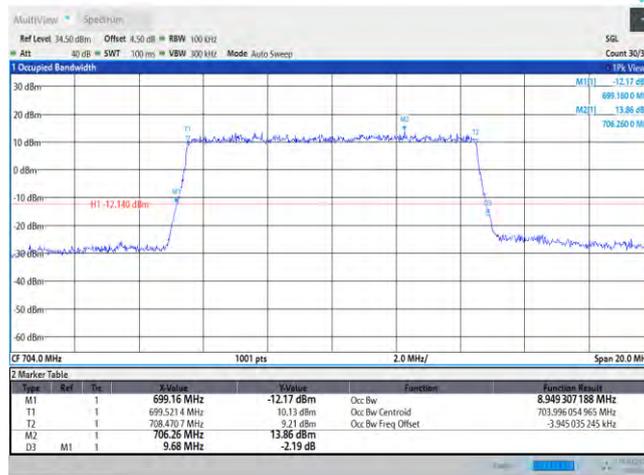


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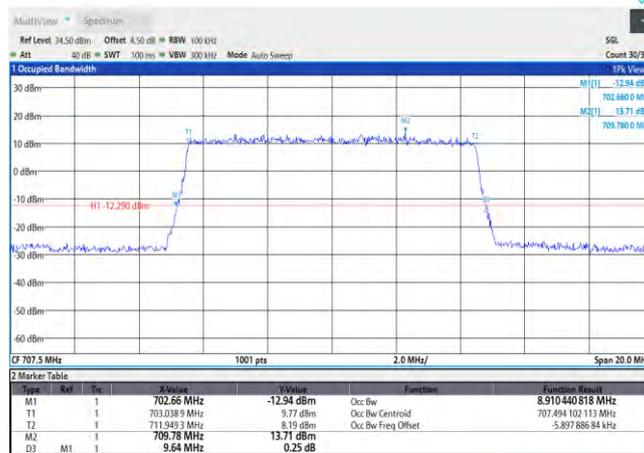
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Band12-10MHz-64QAM-23060-50RB#0



19:19:05 16.02.2022

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



19:23:31 16.02.2022

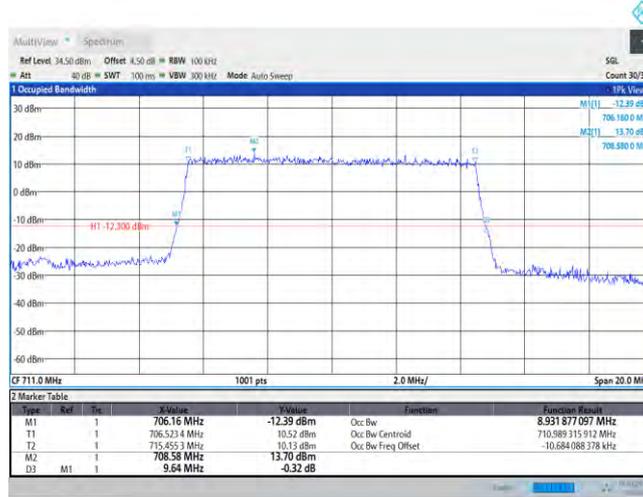


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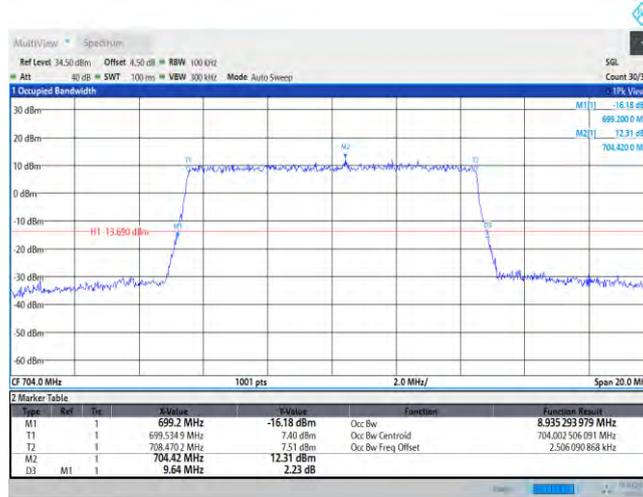
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Band12-10MHz-64QAM-23130-50RB#0



19:24:55 16.02.2022

Band12-10MHz-256QAM-23060-50RB#0



19:19:23 16.02.2022



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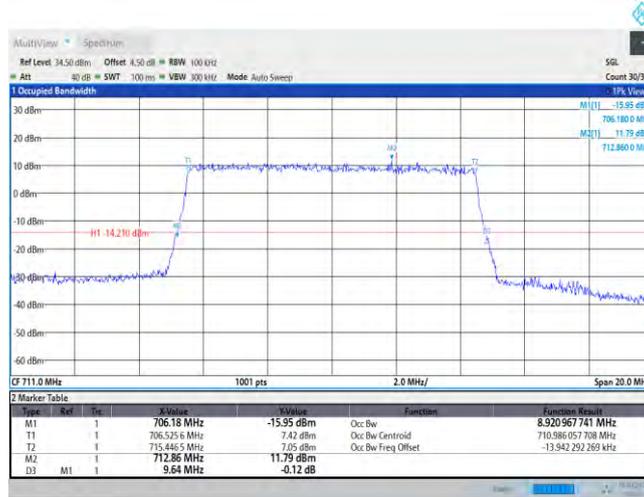
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Band12-10MHz-256QAM-23095-50RB#0



19:23:49 16.02.2022

Band12-10MHz-256QAM-23130-50RB#0



19:25:13 16.02.2022



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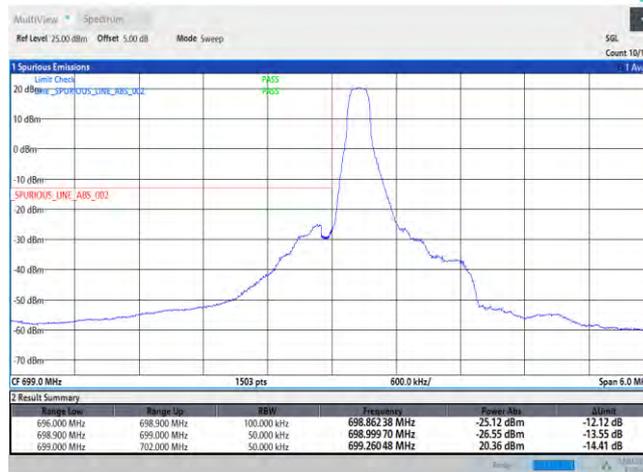
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## Band Edge

## Test Graphs

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



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



11:13:42 17.02.2022



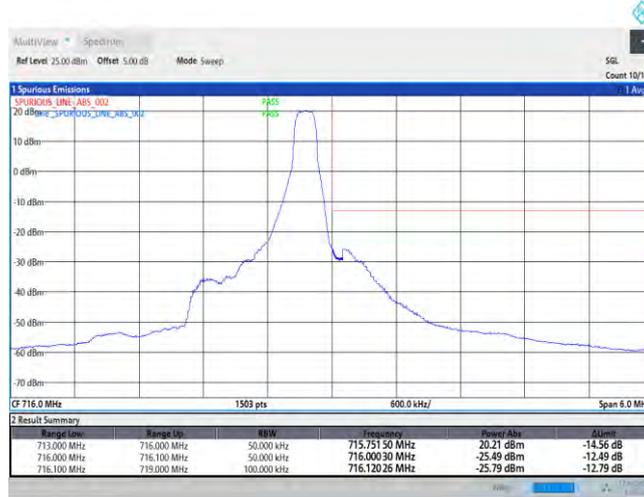
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Band12-1.4MHz-QPSK-23173-1RB#5



11:17:05 17.02.2022

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



11:19:54 17.02.2022



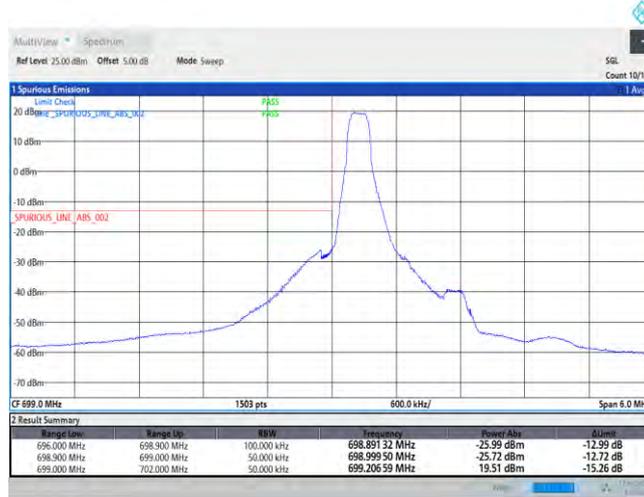
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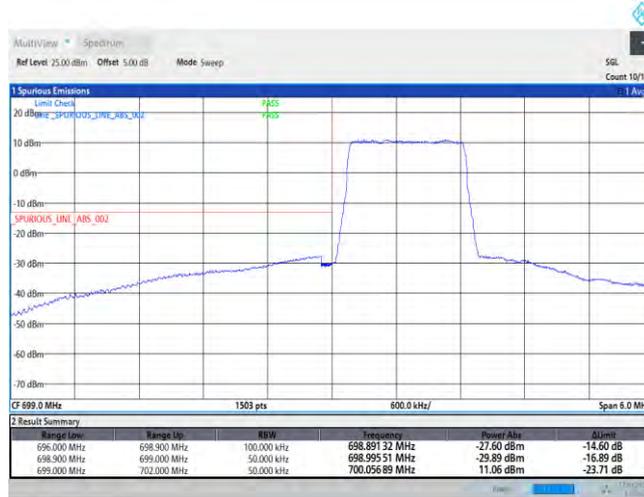
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Band12-1.4MHz-16QAM-23017-1RB#0



11:11:43 17.02.2022

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



11:14:21 17.02.2022

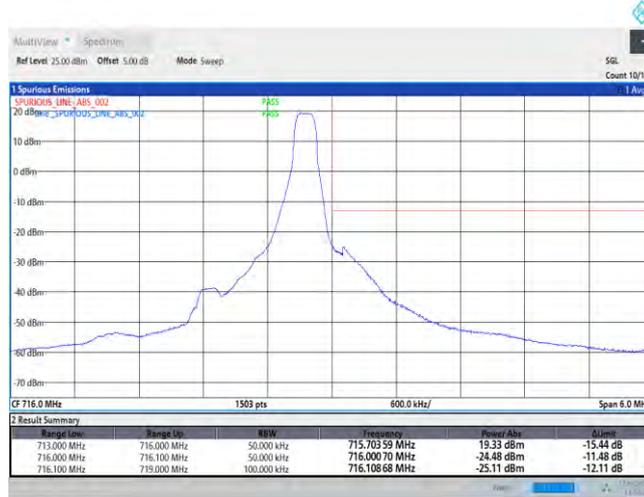


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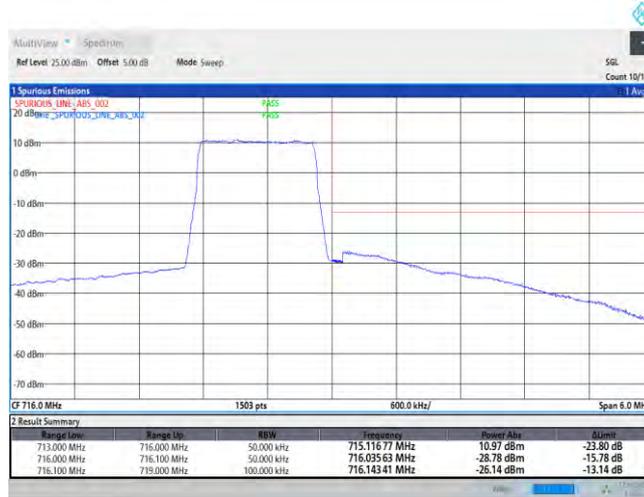
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11:20:33 17.02.2022



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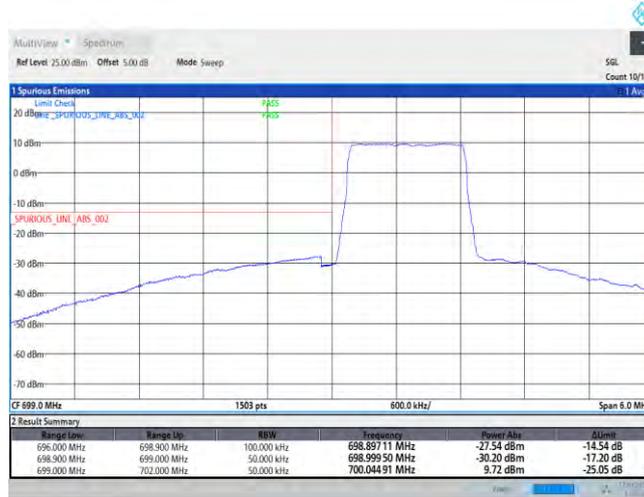
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Band12-1.4MHz-64QAM-23017-6RB#0



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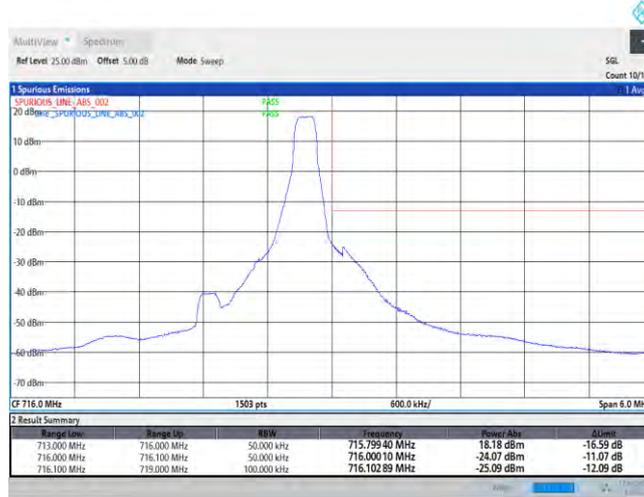


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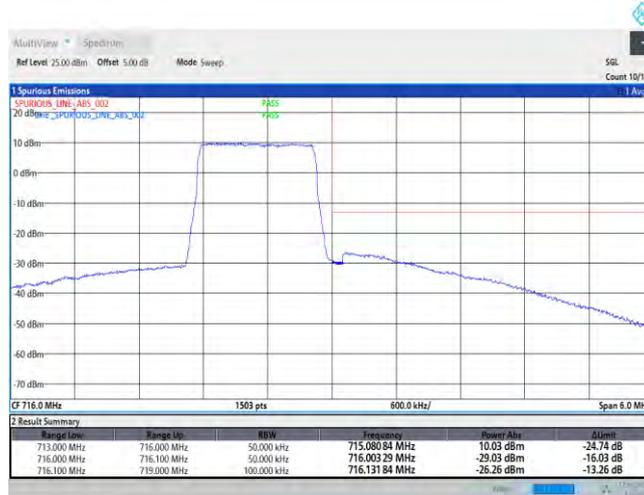
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Band12-1.4MHz-256QAM-23017-1RB#0



Band12-1.4MHz-256QAM-23017-6RB#0

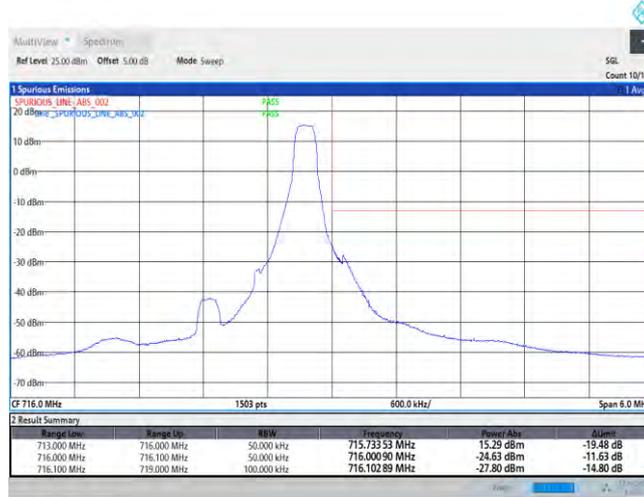


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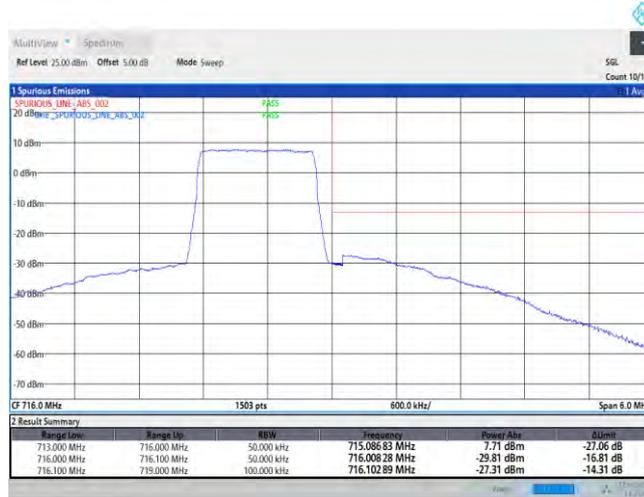
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Band12-1.4MHz-256QAM-23173-1RB#5



11:19:17 17.02.2022

Band12-1.4MHz-256QAM-23173-6RB#0



11:21:51 17.02.2022



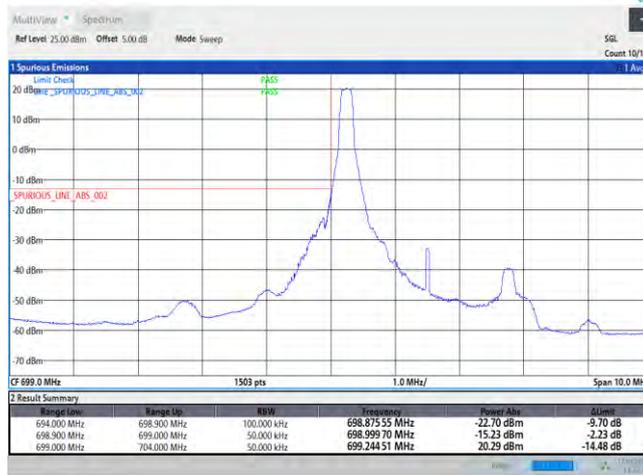
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Band12-3MHz-QPSK-23025-1RB#0



11:23:14 17.02.2022

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



11:25:54 17.02.2022

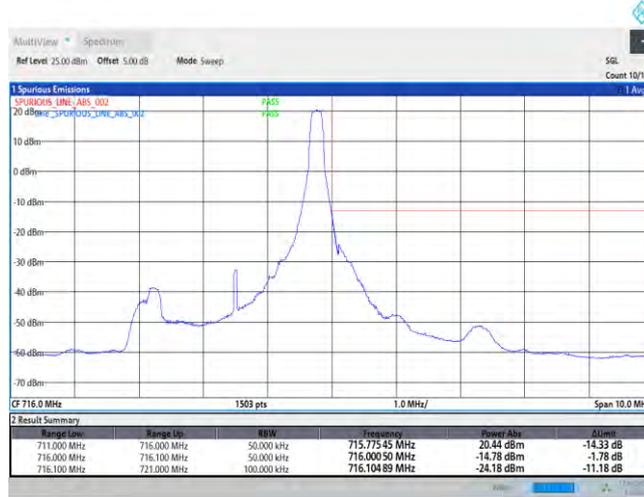


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Band12-3MHz-QPSK-23165-1RB#14



11:29:10 17.02.2022

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



11:31:51 17.02.2022

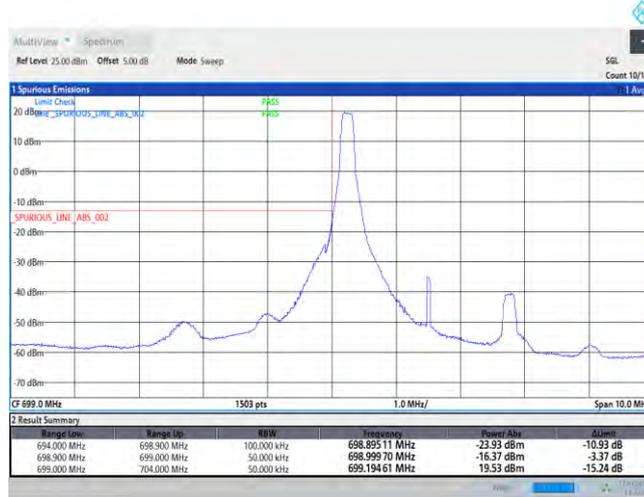


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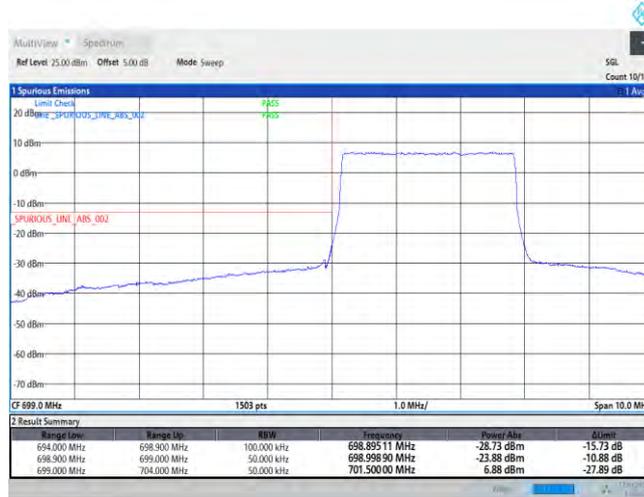
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Band12-3MHz-16QAM-23025-1RB#0



11:23:55 17.02.2022

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



11:26:32 17.02.2022

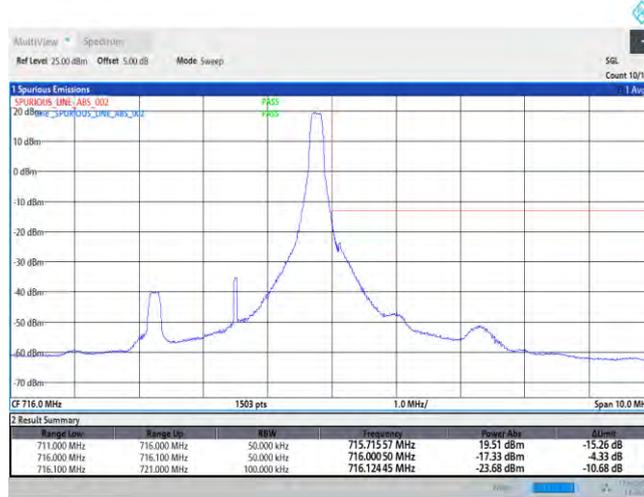


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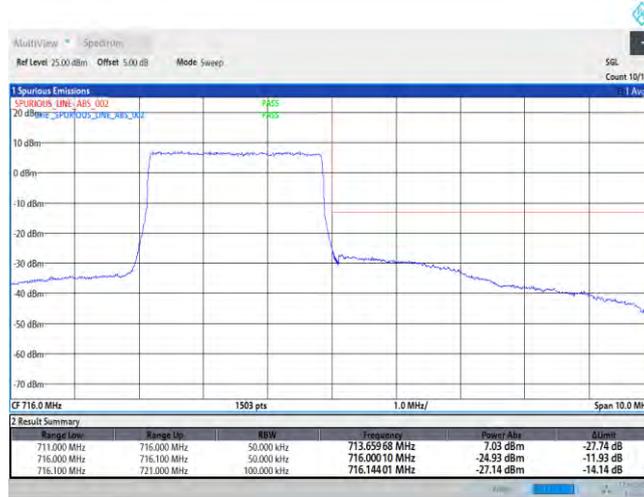
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Band12-3MHz-16QAM-23165-1RB#14



11:29:50 17.02.2022

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



11:32:30 17.02.2022



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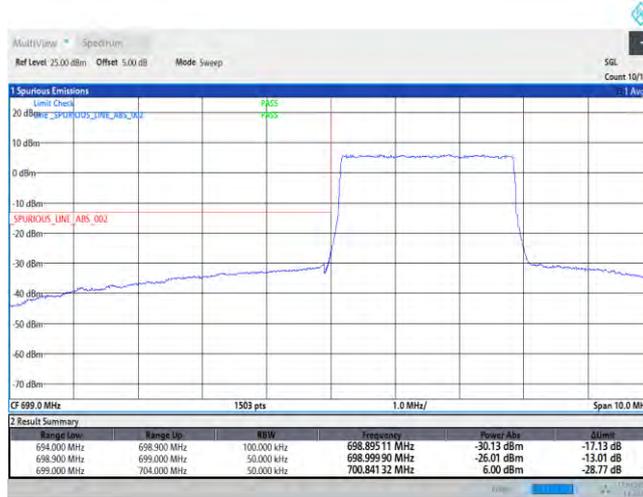
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Band12-3MHz-64QAM-23025-1RB#0



11:24:36 17.02.2022

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



11:27:11 17.02.2022



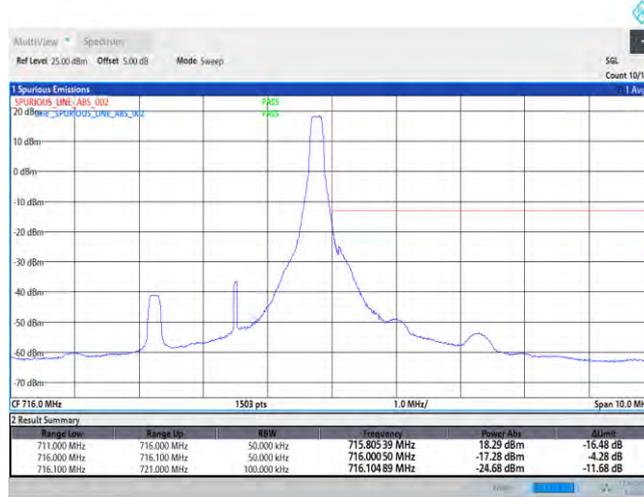
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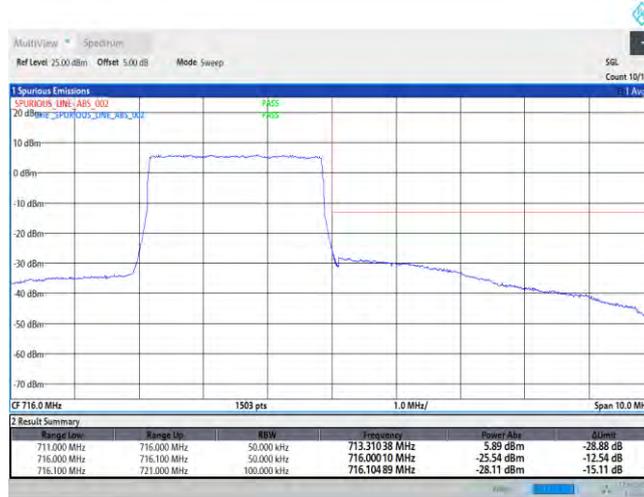
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Band12-3MHz-64QAM-23165-1RB#14



11:30:31 17.02.2022

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



11:33:09 17.02.2022



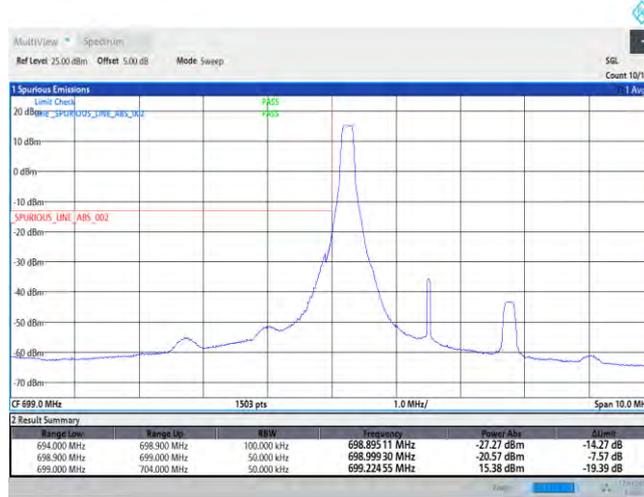
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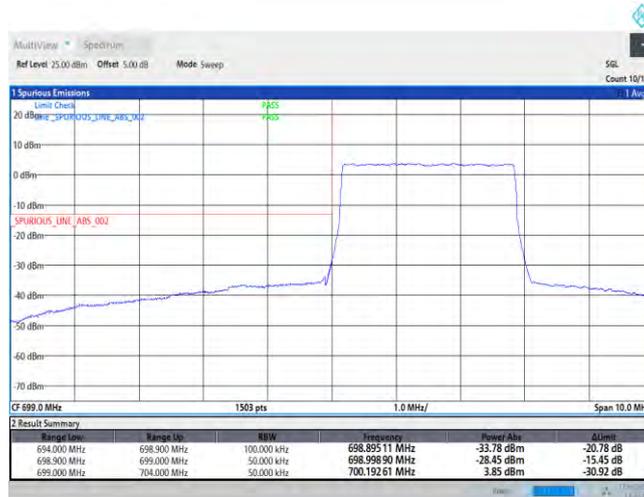
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Band12-3MHz-256QAM-23025-1RB#0



11:25:16 17.02.2022

Band12-3MHz-256QAM-23025-15RB#0



11:27:49 17.02.2022



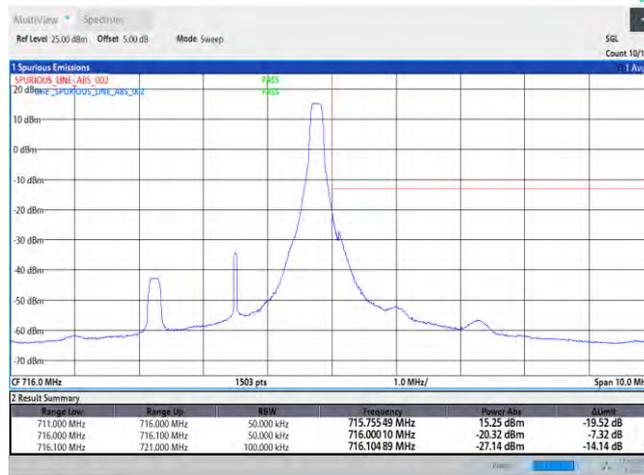
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11:33:48 17.02.2022



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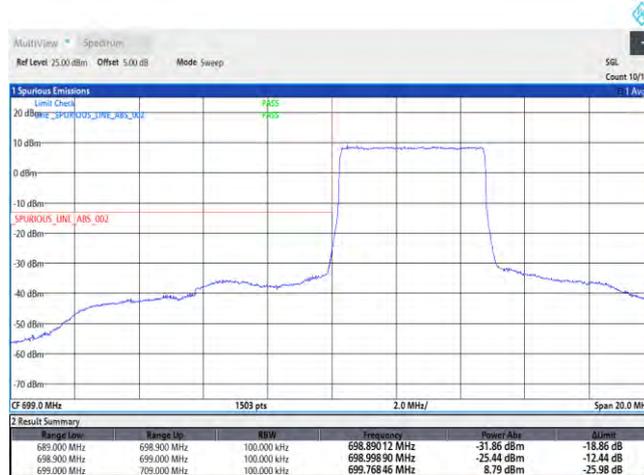
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11:36:54 17.02.2022



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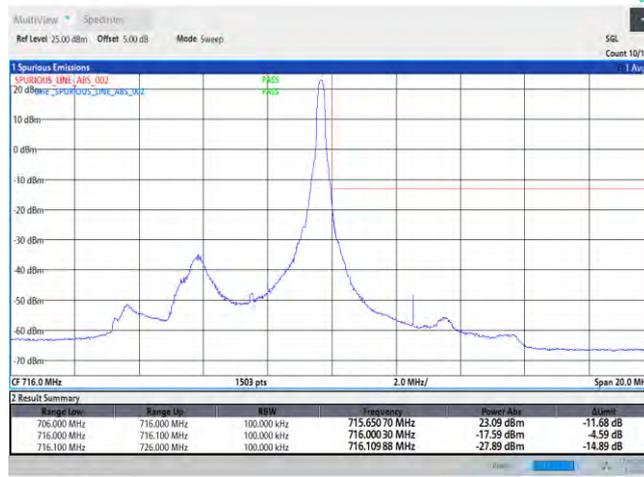
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Band12-5MHz-QPSK-23155-1RB#24



11:39:31 17.02.2022

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



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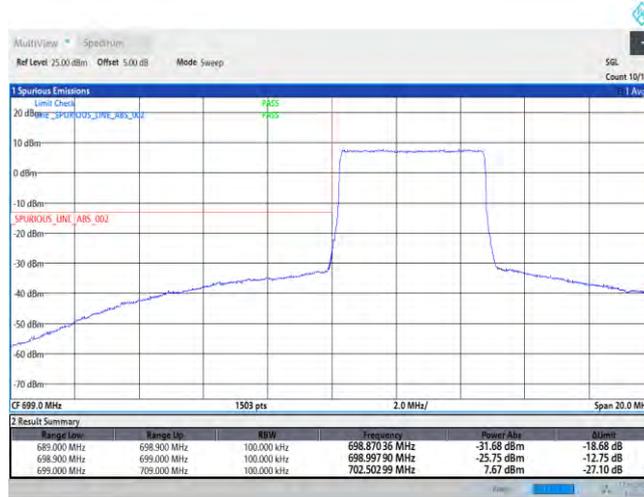
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Band12-5MHz-16QAM-23035-1RB#0



11:35:26 17.02.2022

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



11:37:22 17.02.2022



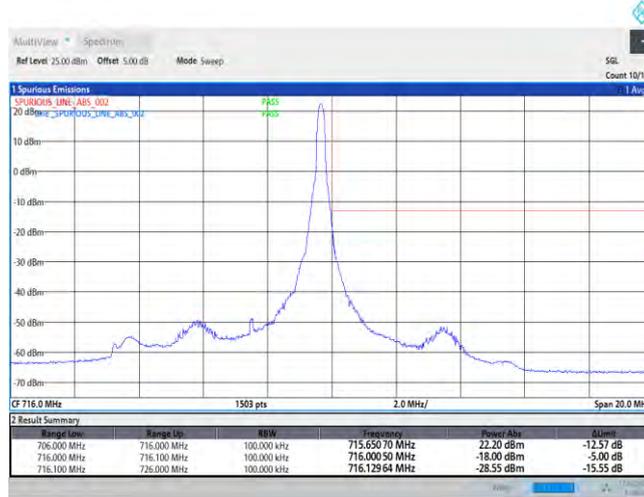
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Band12-5MHz-16QAM-23155-1RB#24



11:40:01 17.02.2022

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



11:41:56 17.02.2022

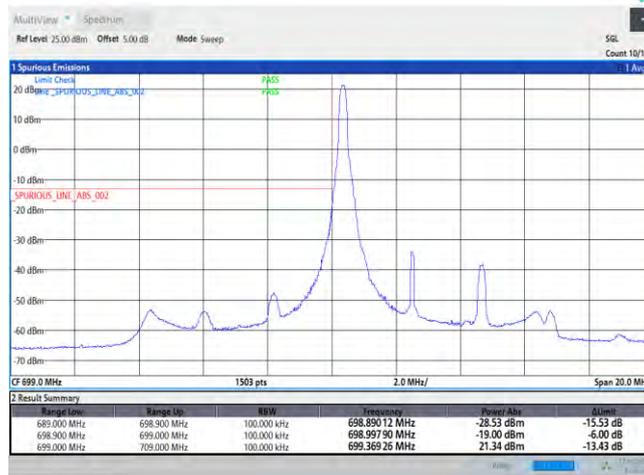


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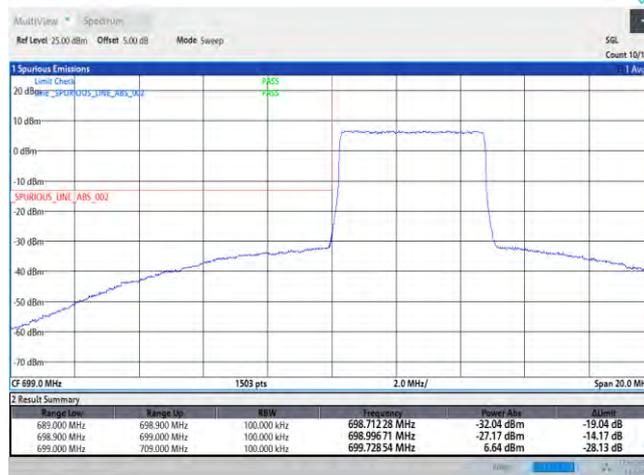
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Band12-5MHz-64QAM-23035-1RB#0



11:35:55 17.02.2022

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



11:37:51 17.02.2022

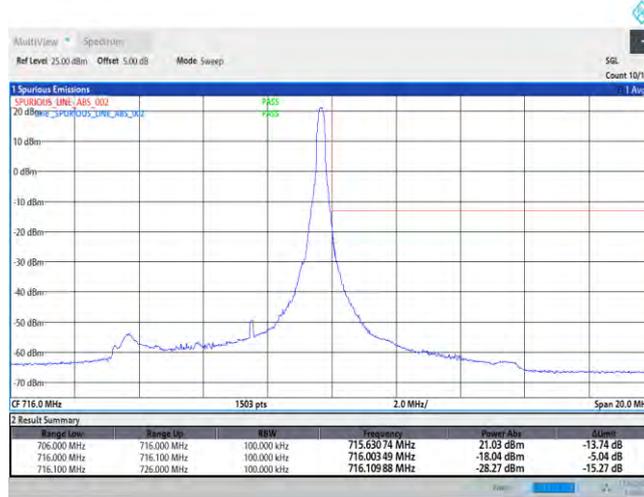


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Band12-5MHz-64QAM-23155-1RB#24



11:40:30 17.02.2022

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



11:42:25 17.02.2022



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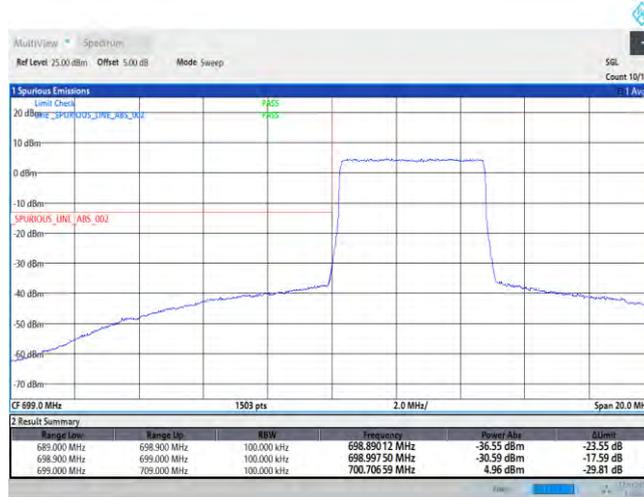
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Band12-5MHz-256QAM-23035-1RB#0



11:36:24 17.02.2022

Band12-5MHz-256QAM-23035-25RB#0



11:38:20 17.02.2022



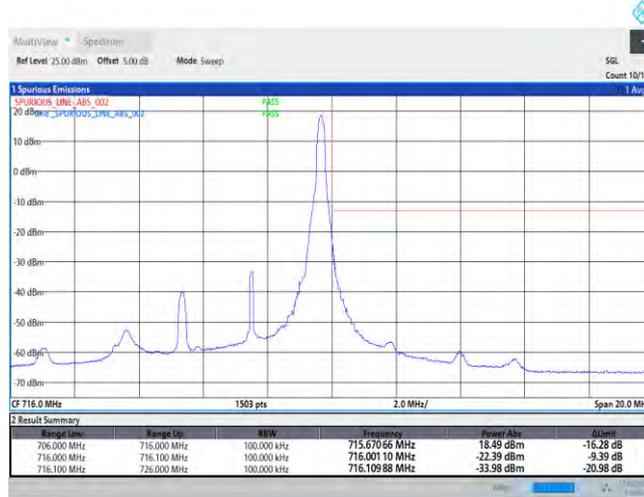
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Band12-5MHz-256QAM-23155-1RB#24



11:40:58 17.02.2022

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11:42:54 17.02.2022



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



11:44:05 17.02.2022

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



11:46:01 17.02.2022



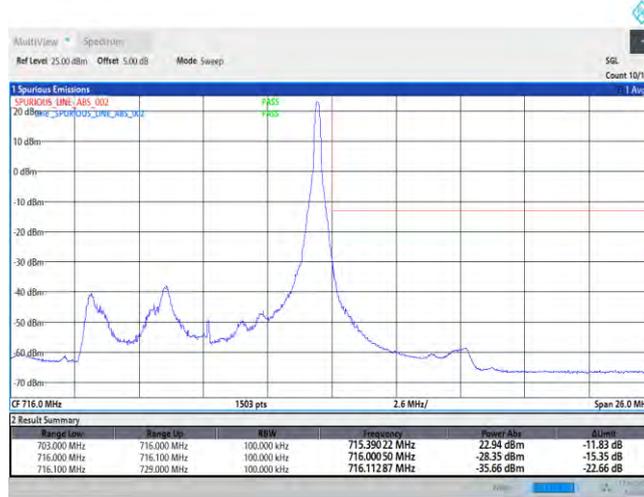
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Band12-10MHz-QPSK-23130-1RB#49



12:56:02 17.02.2022

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



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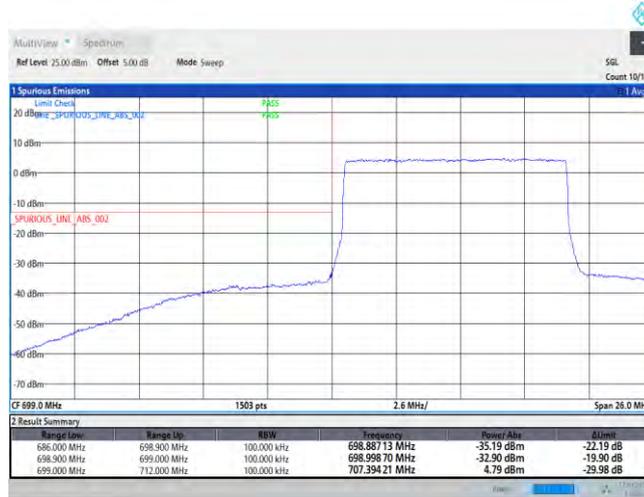
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Band12-10MHz-16QAM-23060-1RB#0



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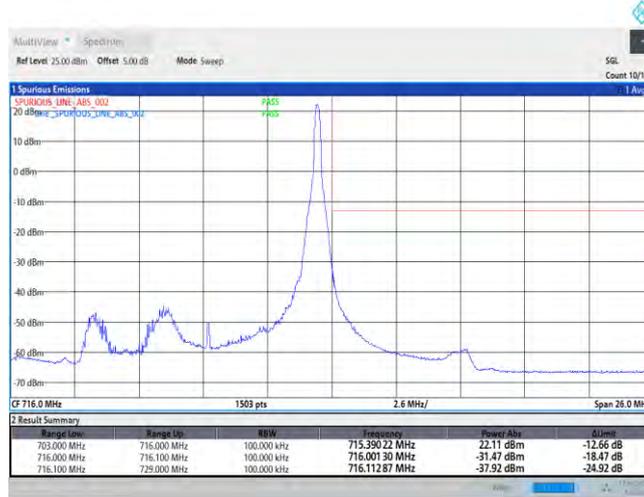


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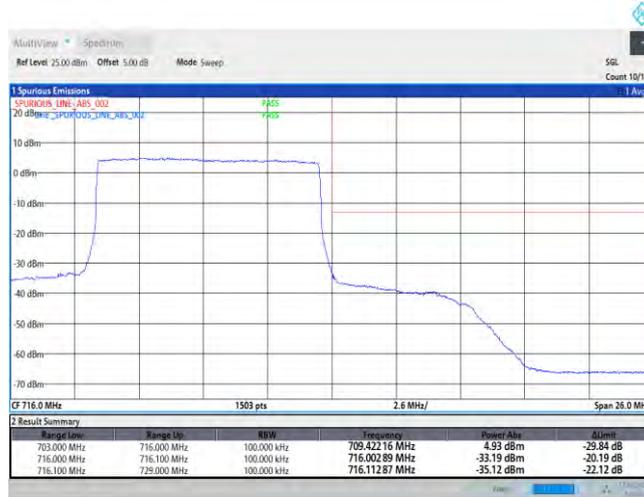
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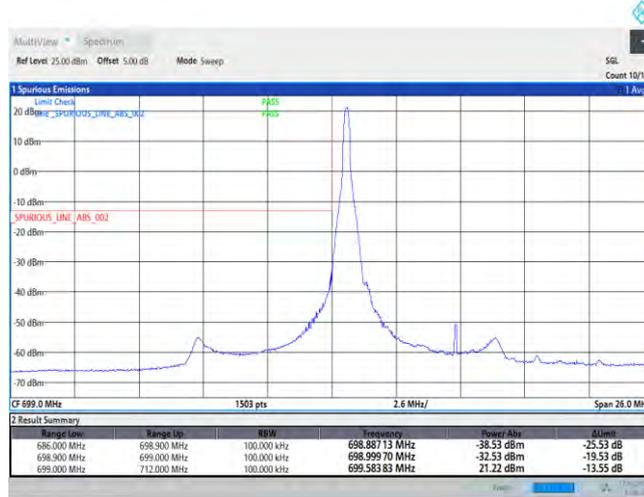


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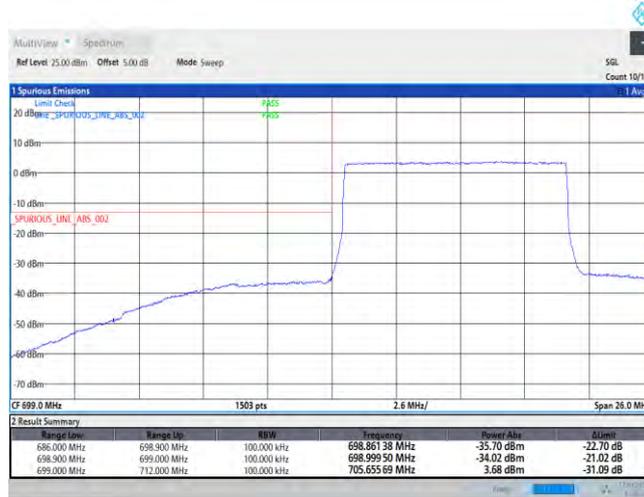
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Band12-10MHz-64QAM-23060-1RB#0



11:45:03 17.02.2022

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11:46:58 17.02.2022



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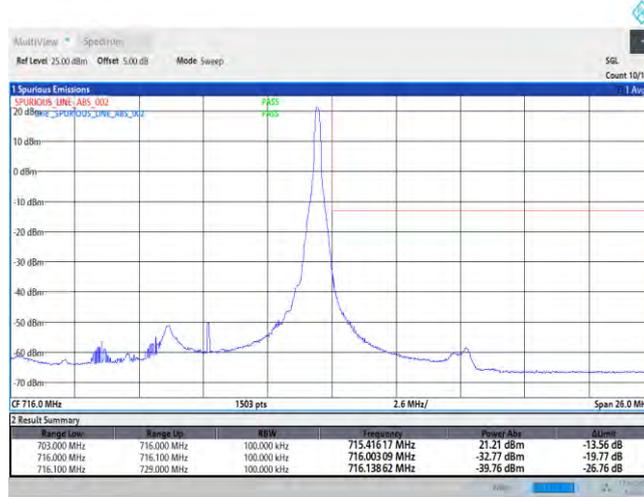
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12:57:00 17.02.2022

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12:58:56 17.02.2022



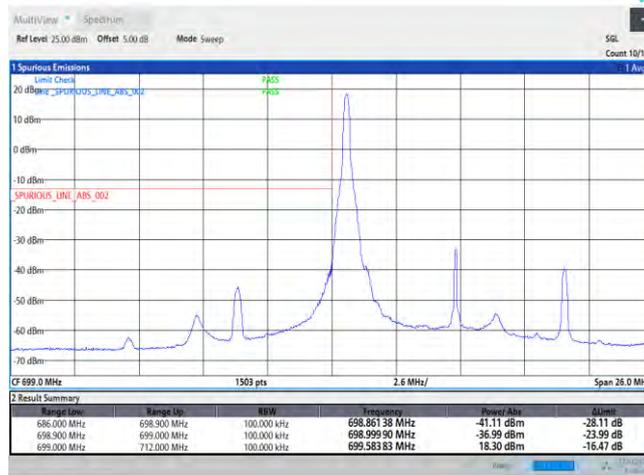
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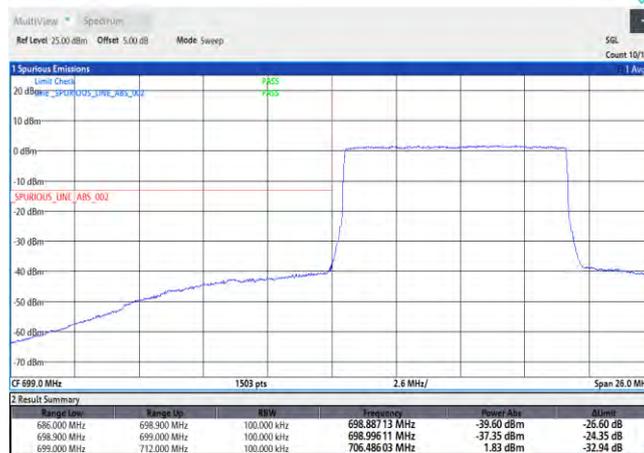
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Band12-10MHz-256QAM-23060-1RB#0



11:45:32 17.02.2022

Band12-10MHz-256QAM-23060-50RB#0



11:47:27 17.02.2022

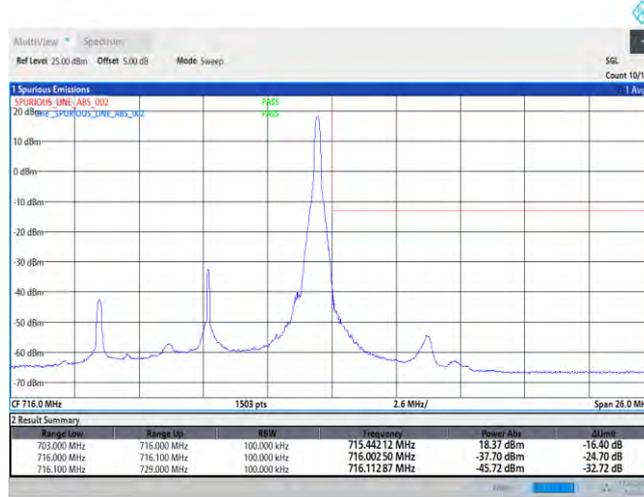


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Band12-10MHz-256QAM-23130-1RB#49



12:57:29 17.02.2022

Band12-10MHz-256QAM-23130-50RB#0



12:59:24 17.02.2022



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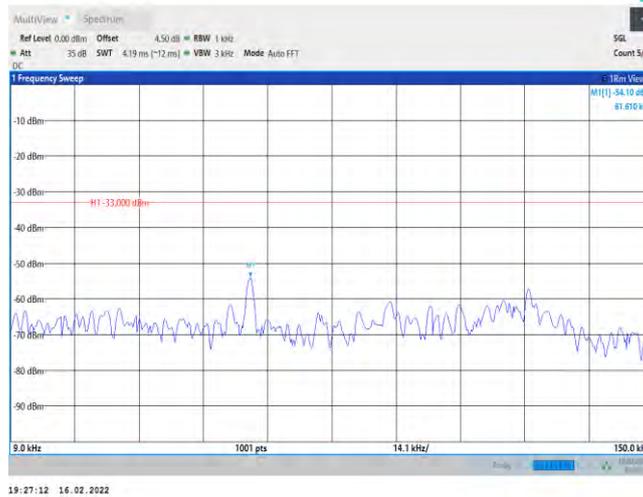
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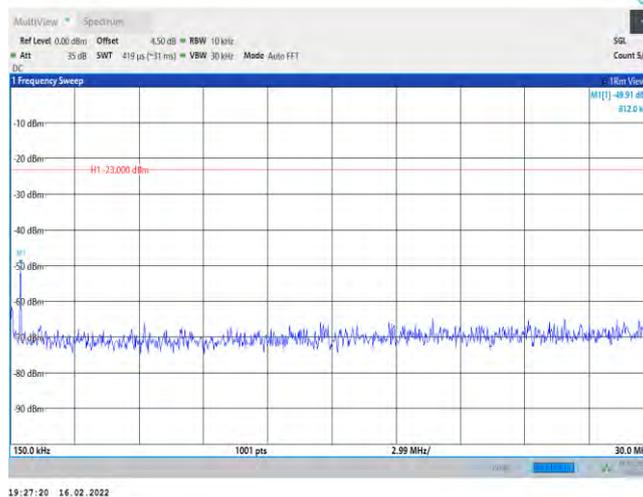
## Conducted Spurious Emission

### Test Graphs

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



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



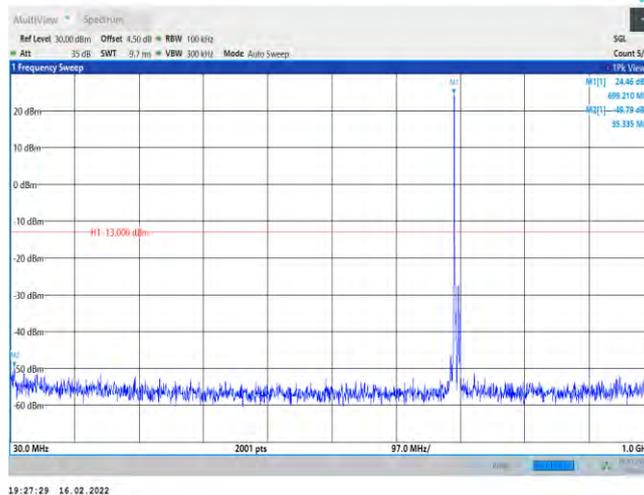
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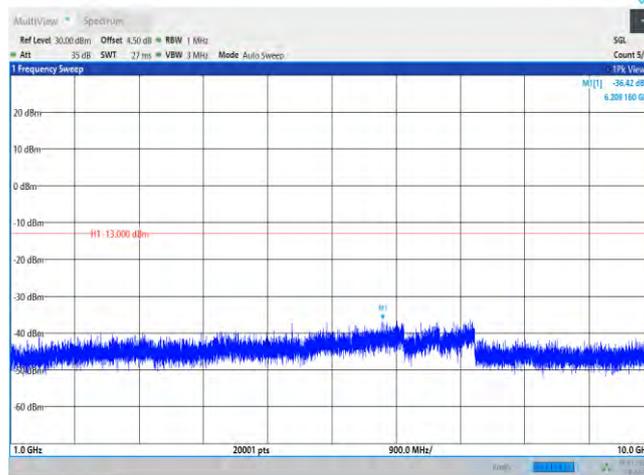
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



19:27:29 16.02.2022

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



19:27:37 16.02.2022

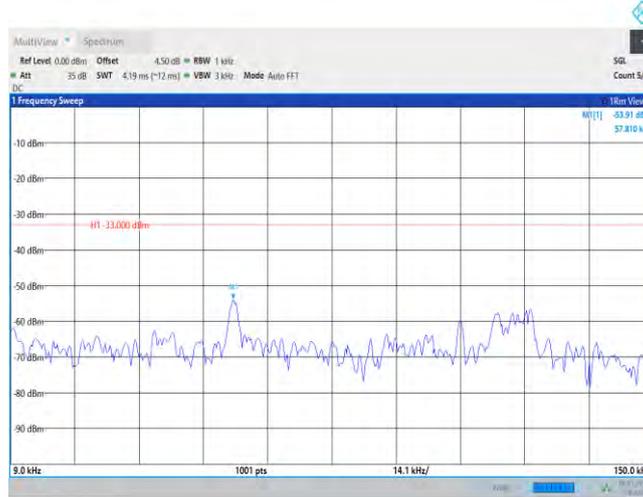


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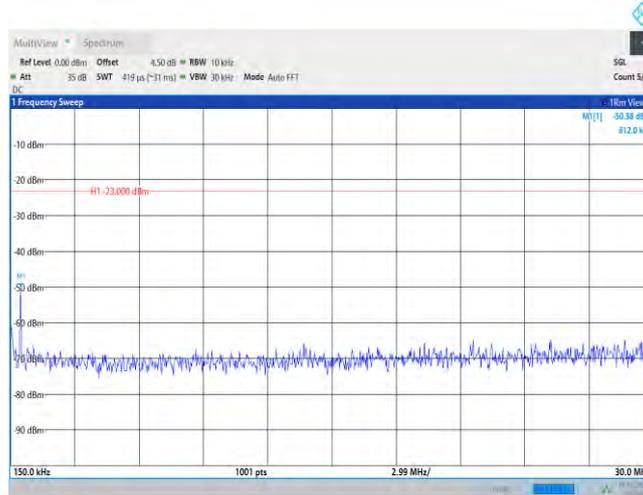
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



19:27:56 16.02.2022

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



19:28:04 16.02.2022

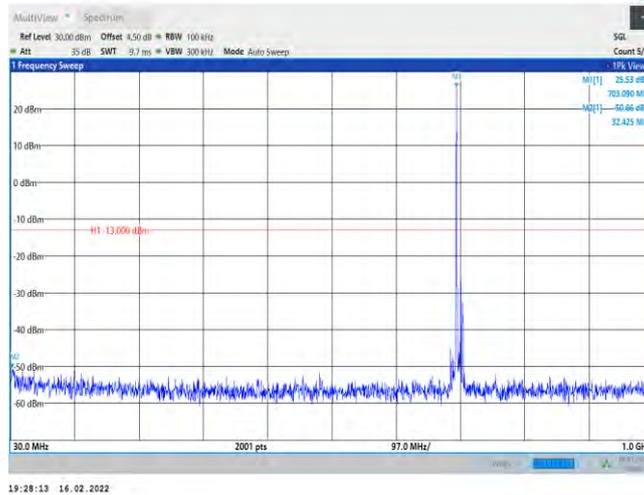


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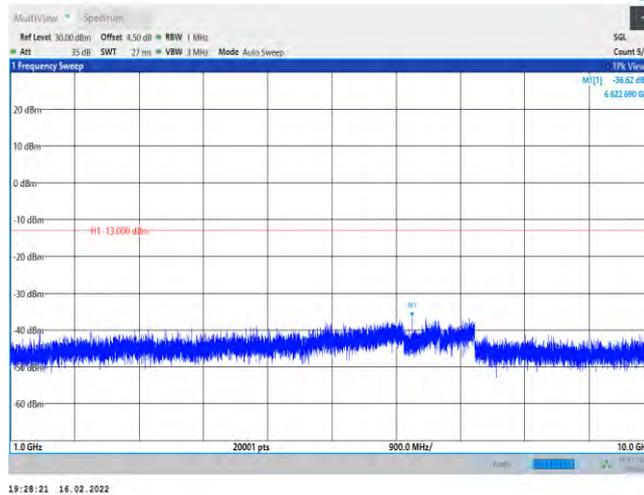
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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

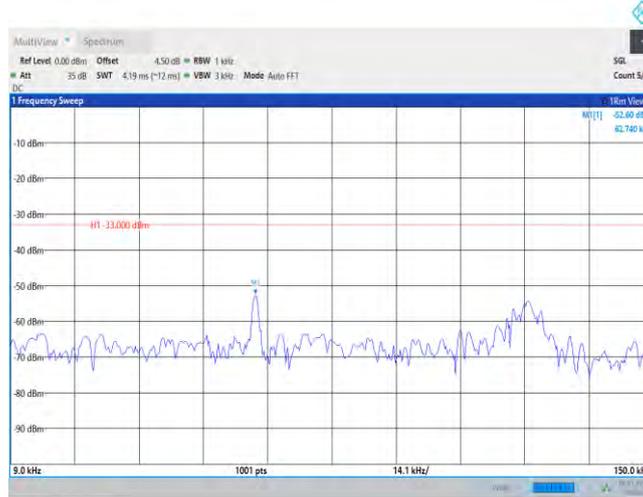


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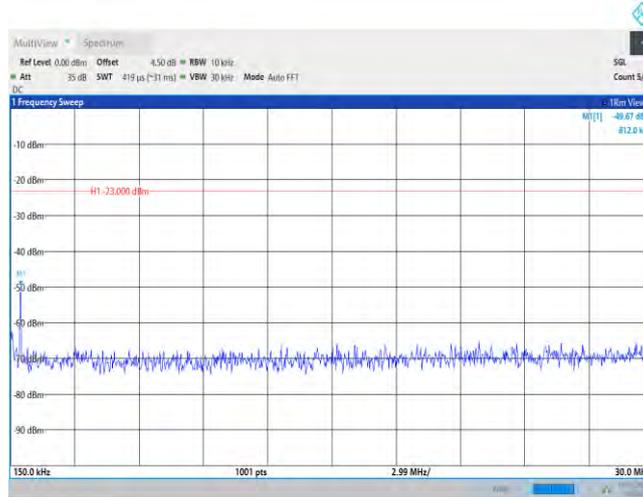
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



19:28:39 16.02.2022

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

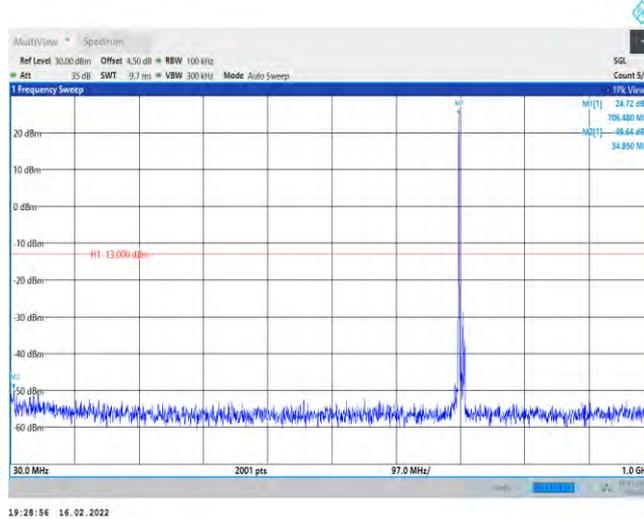


19:28:48 16.02.2022

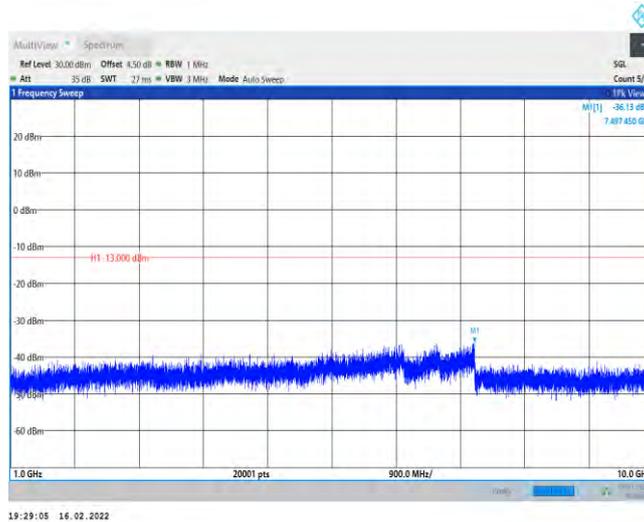


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## Field Strength of Spurious Radiation

Test Band =LTE Band 12\_ TM1 ANT1

Test Channel =Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	72.52	-118.5	-46.07	-13.00	33.07	133	331	Horizontal
2	2098.77	52.25	-116.0	-63.79	-13.00	50.79	196	175	Horizontal
3	2798.36	51.56	-113.0	-61.47	-13.00	48.47	187	35	Horizontal
4	3497.95	49.31	-111.91	-62.60	-13.00	49.60	221	283	Horizontal
5	4197.54	48.46	-109.4	-61.00	-13.00	48.00	233	113	Horizontal
6	4897.13	50.92	-108.0	-57.12	-13.00	44.12	177	122	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	72.01	-118.5	-46.58	-13.00	33.58	188	251	Vertical
2	2098.77	50.56	-116.0	-65.48	-13.00	52.48	126	328	Vertical
3	2798.36	50.59	-113.0	-62.44	-13.00	49.44	174	234	Vertical
4	3497.95	48.92	-111.91	-62.99	-13.00	49.99	211	203	Vertical
5	4197.54	47.54	-109.4	-61.92	-13.00	48.92	105	108	Vertical
6	4897.13	50.15	-108.0	-57.89	-13.00	44.89	239	172	Vertical



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Test Band =LTE Band 12\_ TM1 ANT1

Test Channel =Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	74.25	-118.5	-44.32	-13.00	31.32	129	173	Horizontal
2	2109.27	51.77	-116.0	-64.24	-13.00	51.24	174	2	Horizontal
3	2812.36	50.08	-112.9	-62.91	-13.00	49.91	135	63	Horizontal
4	3515.45	49.17	-111.86	-62.69	-13.00	49.69	102	8	Horizontal
5	4218.54	47.98	-109.4	-61.44	-13.00	48.44	177	63	Horizontal
6	4921.63	50.23	-107.9	-57.74	-13.00	44.74	166	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	75.73	-118.5	-42.84	-13.00	29.84	122	76	Vertical
2	2109.27	51.05	-116.0	-64.96	-13.00	51.96	203	32	Vertical
3	2812.36	49.51	-112.9	-63.48	-13.00	50.48	244	188	Vertical
4	3515.45	49.10	-111.86	-62.76	-13.00	49.76	175	124	Vertical
5	4218.54	48.20	-109.4	-61.22	-13.00	48.22	199	221	Vertical
6	4921.63	49.55	-107.9	-58.42	-13.00	45.42	274	157	Vertical



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**Test Band =LTE Band 12\_ TM1 ANT1**

**Test Channel =High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	72.84	-118.5	-45.70	-13.00	32.70	185	178	Horizontal
2	2119.77	50.89	-115.9	-65.08	-13.00	52.08	124	357	Horizontal
3	2826.36	50.77	-112.9	-62.19	-13.00	49.19	169	155	Horizontal
4	3532.95	50.67	-111.79	-61.12	-13.00	48.12	172	37	Horizontal
5	4239.54	48.62	-109.3	-60.77	-13.00	47.77	231	4	Horizontal
6	4946.13	50.06	-107.8	-57.81	-13.00	44.81	177	194	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	67.97	-118.5	-50.57	-13.00	37.57	156	248	Vertical
2	2119.77	51.63	-115.9	-64.34	-13.00	51.34	127	351	Vertical
3	2826.36	50.13	-112.9	-62.83	-13.00	49.83	184	265	Vertical
4	3532.95	49.18	-111.79	-62.61	-13.00	49.61	175	139	Vertical
5	4239.54	48.52	-109.3	-60.87	-13.00	47.87	129	45	Vertical
6	4946.13	49.42	-107.8	-58.45	-13.00	45.45	224	360	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



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## Frequency Stability

### Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
					[Vdc]				
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-3.7	-0.00523	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	6.3	0.008861	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.3	0.000422	PASS

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
					[Vdc]				
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-2.3	-0.00327	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-3.4	-0.00483	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-2.4	-0.00341	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	1.4	0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	0.1	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	3.6	0.005088	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	4.3	0.006078	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	2.8	0.003938	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	1.6	0.002273	PASS

The End



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