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Appendix B.4

LTE Band 4



SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.95	23.63	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.10	23.78	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.98	23.66	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.05	22.73	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.85	23.53	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.00	23.68	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.88	23.56	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.95	22.63	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.86	23.54	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.02	23.70	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.86	23.54	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.95	22.63	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.28	22.96	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.39	23.07	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.28	22.96	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.14	21.82	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.14	22.82	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.23	22.91	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.19	22.87	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.05	21.73	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.15	22.83	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.27	22.95	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.17	22.85	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.04	21.72	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.10	21.78	30.00	PASS



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Band4	1.4MHz	64QAM	19957	1RB#2	22.28	21.96	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.16	21.84	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	21.04	20.72	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.02	21.70	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.22	21.90	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	22.03	21.71	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.93	20.61	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	22.08	21.76	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.14	21.82	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	22.10	21.78	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.95	20.63	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.99	23.67	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.01	23.69	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.98	23.66	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.00	22.68	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.87	23.55	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.93	23.61	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.89	23.57	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.93	22.61	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.95	23.63	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.95	23.63	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.87	23.55	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.97	22.65	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.32	23.00	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.20	22.88	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.21	22.89	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.04	21.72	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.08	22.76	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.11	22.79	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.22	22.90	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.92	21.60	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.23	22.91	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.12	22.80	30.00	PASS



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Band4	3MHz	16QAM	20385	1RB#14	23.10	22.78	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.97	21.65	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	22.13	21.81	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.20	21.88	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	22.13	21.81	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.02	20.70	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	22.06	21.74	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	22.13	21.81	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.13	21.81	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.94	20.62	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	22.17	21.85	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.15	21.83	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.12	21.80	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.95	20.63	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.88	23.56	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.15	23.83	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.85	23.53	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.02	22.70	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.71	23.39	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.06	23.74	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.79	23.47	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.93	22.61	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.84	23.52	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.13	23.81	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.73	23.41	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.98	22.66	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.20	22.88	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.38	23.06	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.15	22.83	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.01	21.69	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.97	22.65	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.28	22.96	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.05	22.73	30.00	PASS



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Band4	5MHz	16QAM	20175	25RB#0	21.95	21.63	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.06	22.74	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.34	23.02	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.05	22.73	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.98	21.66	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.02	21.70	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	22.27	21.95	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.97	21.65	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.02	20.70	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.90	21.58	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.33	22.01	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.98	21.66	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.95	20.63	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.98	21.66	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.30	21.98	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.95	21.63	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.98	20.66	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.96	23.64	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.02	23.70	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.83	23.51	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.99	22.67	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.81	23.49	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.98	23.66	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.97	23.65	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.00	22.68	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.95	23.63	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.04	23.72	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.88	23.56	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.03	22.71	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.21	22.89	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.23	22.91	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.19	22.87	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.01	21.69	30.00	PASS

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Band4	10MHz	16QAM	20175	1RB#24	23.21	22.89	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.15	22.83	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.99	21.67	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.17	22.85	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.24	22.92	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.18	22.86	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.04	21.72	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.18	21.86	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.18	21.86	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.98	21.66	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.01	20.69	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.92	21.60	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.10	21.78	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.11	21.79	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.01	20.69	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	22.20	21.88	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.21	21.89	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.04	21.72	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.04	20.72	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.90	23.58	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.85	23.53	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.74	23.42	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.89	22.57	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.75	23.43	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.92	23.60	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.94	23.62	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.97	22.65	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.84	23.52	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.92	23.60	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.82	23.50	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.97	22.65	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.24	22.92	30.00	PASS



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Band4	15MHz	16QAM	20025	1RB#38	23.12	22.80	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.04	22.72	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.89	21.57	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.89	22.57	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.17	22.85	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.14	22.82	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.95	21.63	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.11	22.79	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.13	22.81	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.07	22.75	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.96	21.64	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	22.09	21.77	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.99	21.67	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.97	21.65	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.90	20.58	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.89	21.57	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.04	21.72	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	22.08	21.76	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.95	20.63	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	22.00	21.68	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.06	21.74	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.99	21.67	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.97	20.65	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.89	23.57	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.95	23.63	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.70	23.38	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.85	22.53	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.65	23.33	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.98	23.66	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.91	23.59	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.97	22.65	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.75	23.43	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.06	23.74	30.00	PASS



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Band4	20MHz	QPSK	20300	1RB#99	23.74	23.42	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.94	22.62	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.26	22.94	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.24	22.92	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.89	22.57	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.86	21.54	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.96	22.64	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.18	22.86	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.08	22.76	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.94	21.62	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.00	22.68	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.27	22.95	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.03	22.71	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.96	21.64	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	22.11	21.79	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	22.05	21.73	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.95	21.63	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.84	20.52	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.85	21.53	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.15	21.83	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.05	21.73	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.95	20.63	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.99	21.67	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.23	21.91	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.95	21.63	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.95	20.63	30.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.40	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.32	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.40	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.22	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.16	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.18	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.60	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.44	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.52	13	PASS



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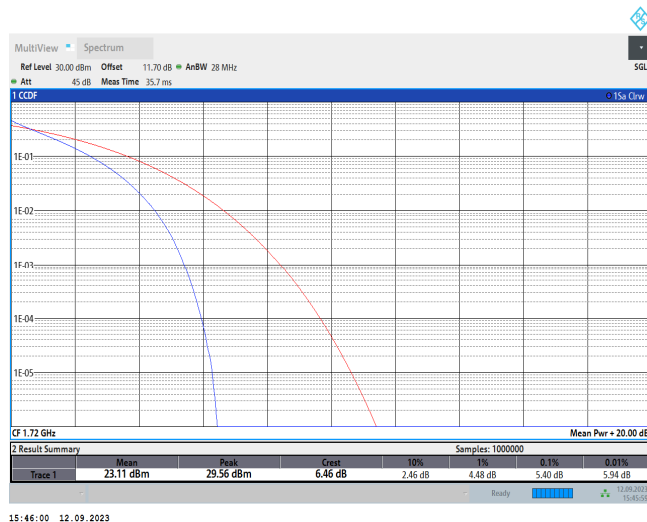
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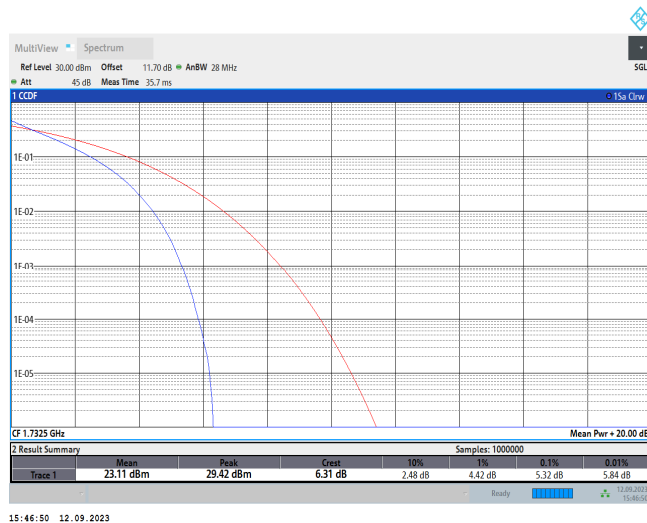
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Test Graphs

Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20175-100RB#0



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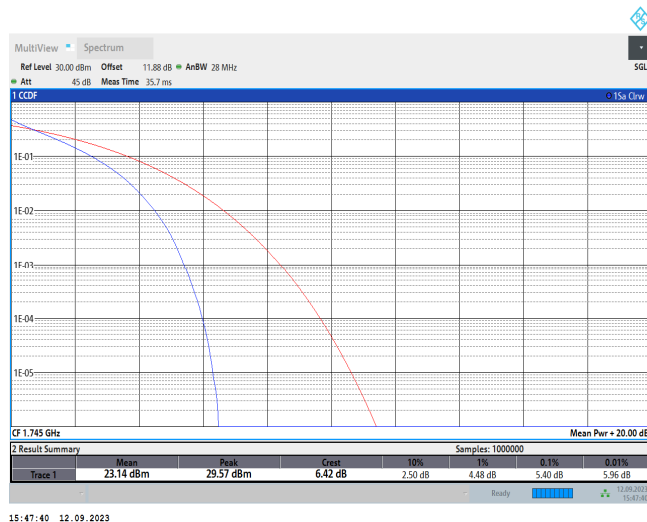
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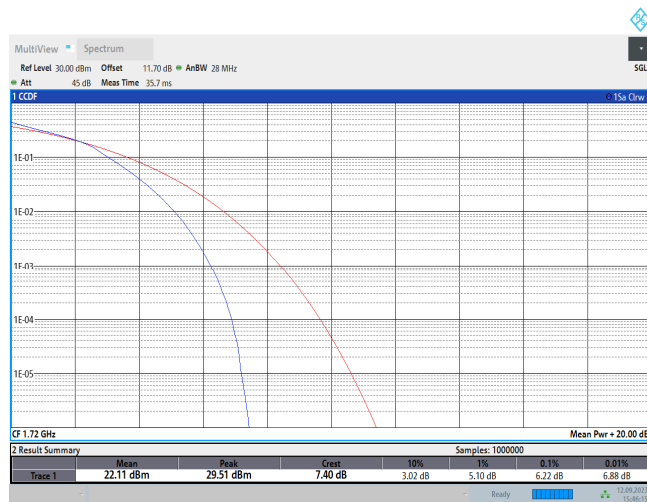
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Band4-20MHz-QPSK-20300-100RB#0



15:47:40 12.09.2023

Band4-20MHz-16QAM-20050-100RB#0



15:46:16 12.09.2023



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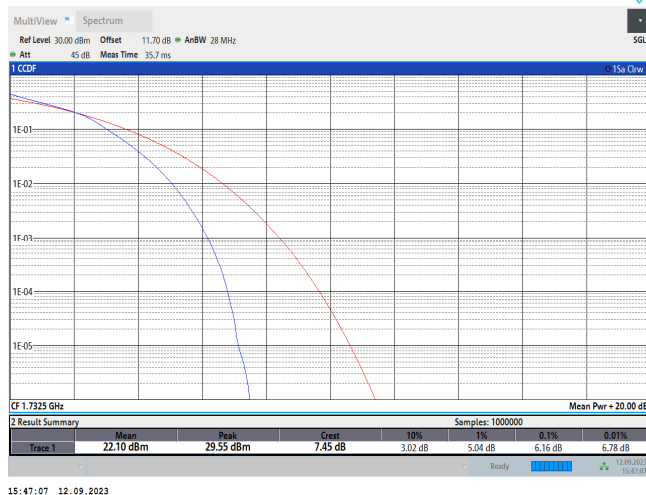
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15:47:07 12.09.2023



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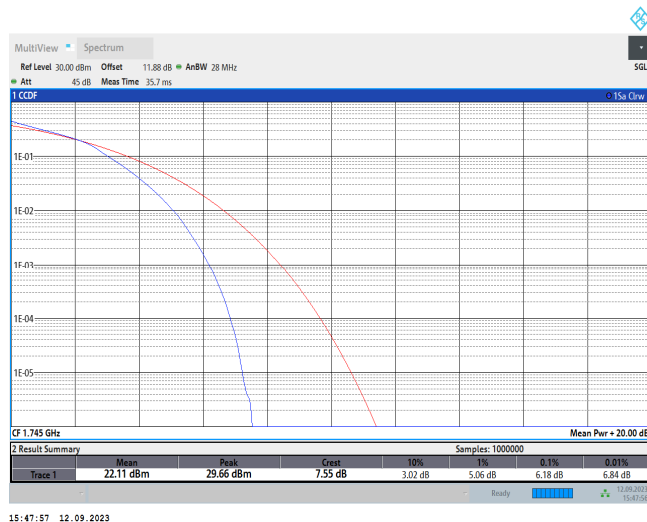
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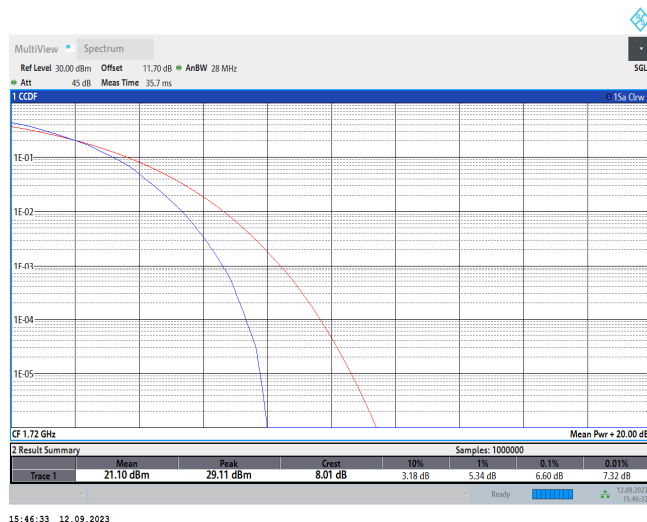
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Band4-20MHz-16QAM-20300-100RB#0



Band4-20MHz-64QAM-20050-100RB#0



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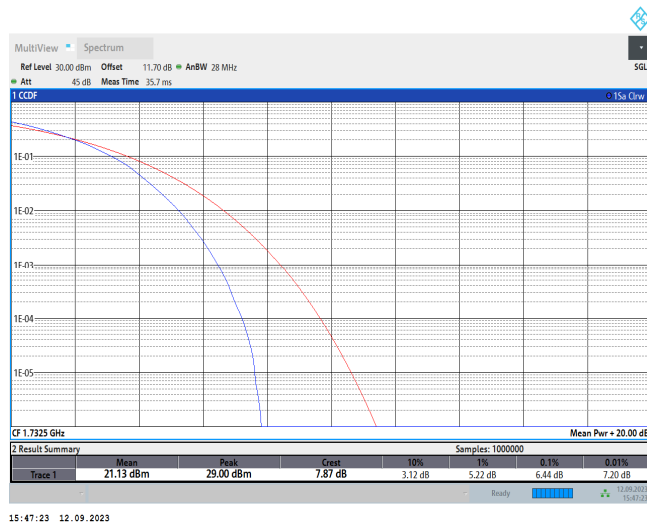
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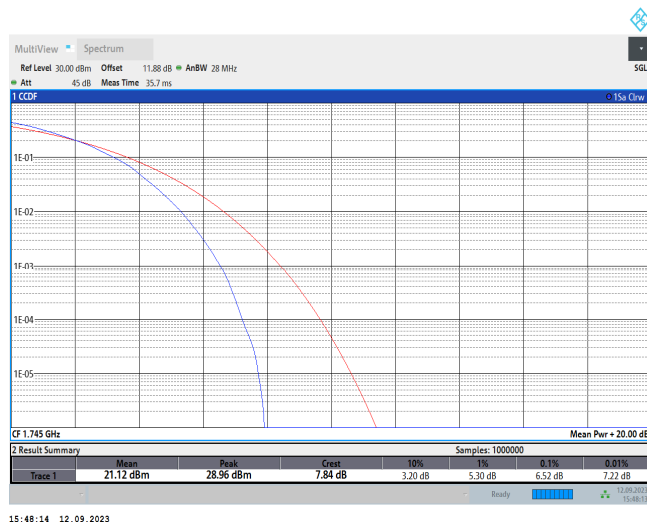
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Band4-20MHz-64QAM-20300-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.085	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.084	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.085	1.29	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.098	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.095	1.30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.095	1.31	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.687	2.90	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.682	2.90	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.686	2.90	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.678	2.90	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.90	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.677	2.92	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.683	2.89	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.680	2.89	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.681	2.89	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.468	4.82	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.469	4.81	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.469	4.82	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.465	4.86	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.465	4.85	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.467	4.85	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.470	4.85	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.478	4.85	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.473	4.84	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.60	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.926	9.58	PASS



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Band4	10MHz	QPSK	20350	50RB#0	8.943	9.54	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.912	9.50	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.919	9.58	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.924	9.56	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.935	9.60	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.926	9.60	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.923	9.58	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.474	14.67	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.475	14.64	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.488	14.70	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.455	14.58	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.449	14.70	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.459	14.76	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.436	14.73	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.429	14.64	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.436	14.73	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.911	19.40	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.911	19.16	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.929	19.40	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.908	19.24	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.880	19.32	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.897	19.24	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.856	19.32	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.859	19.40	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.891	19.36	PASS



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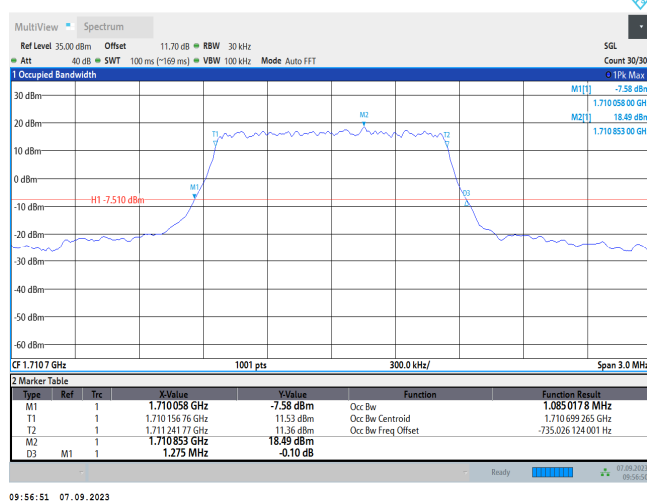
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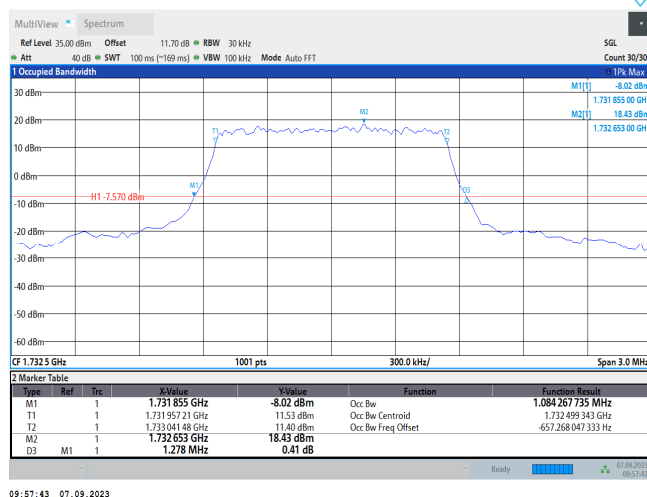
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Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0



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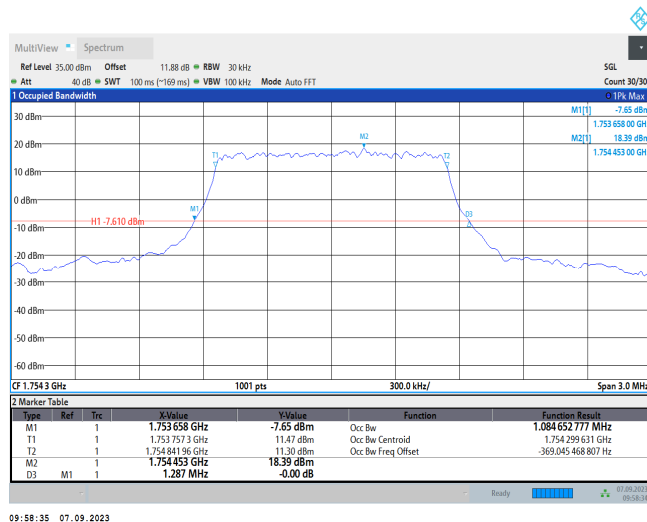
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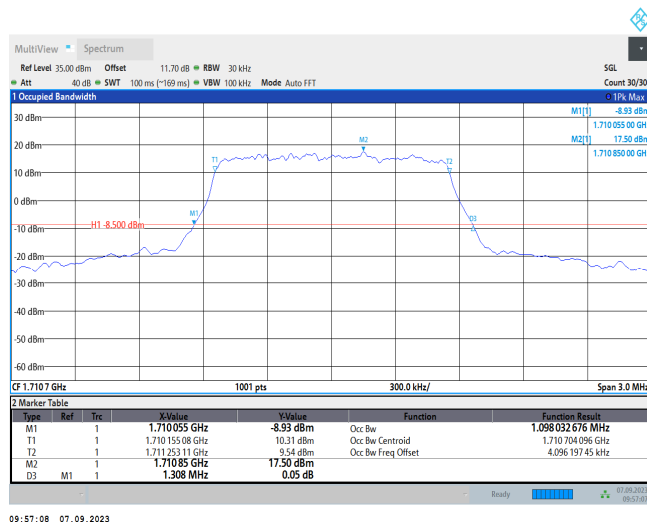
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Band4-1.4MHz-16QAM-19957-6RB#0

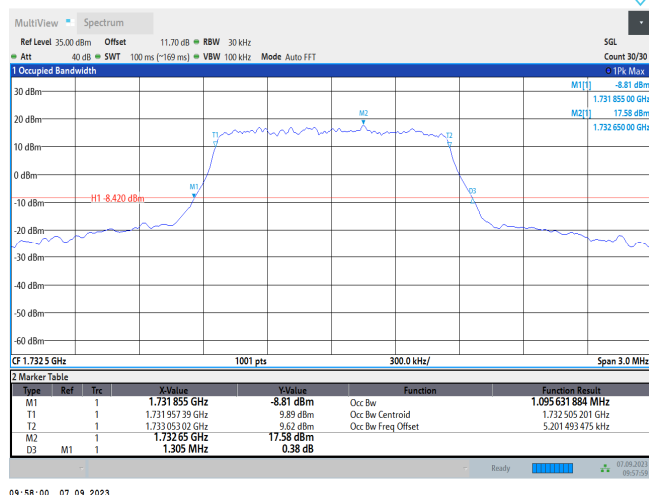


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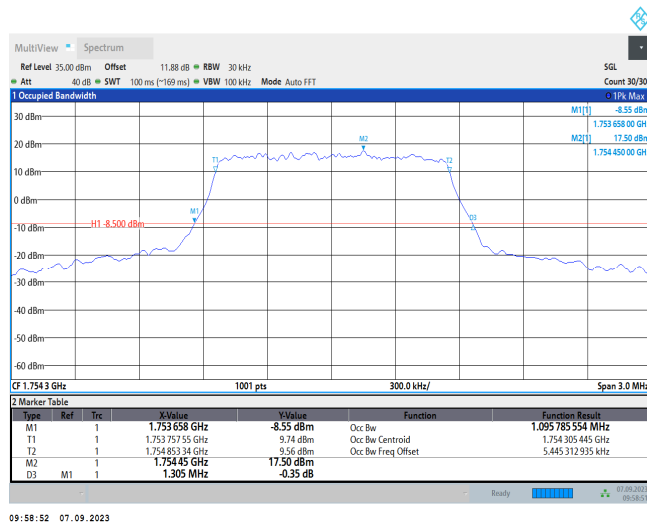
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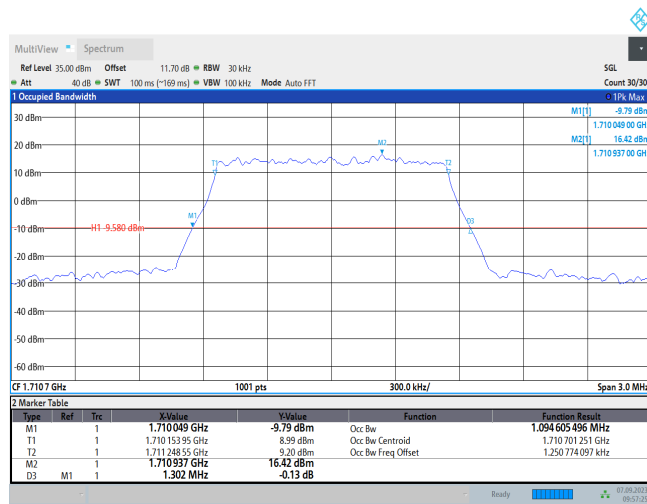
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Band4-1.4MHz-64QAM-19957-6RB#0



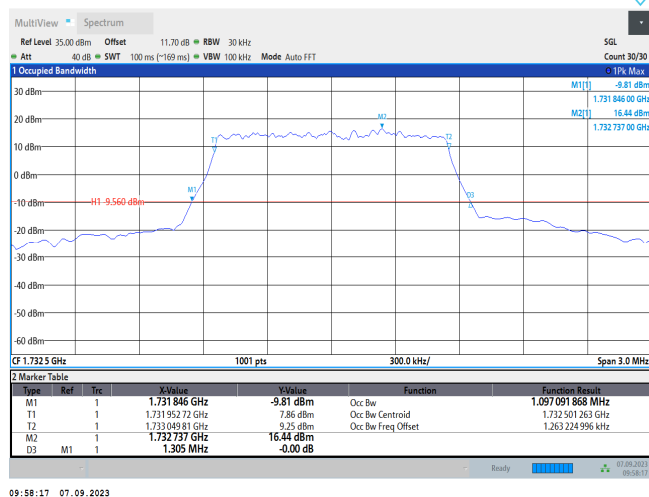
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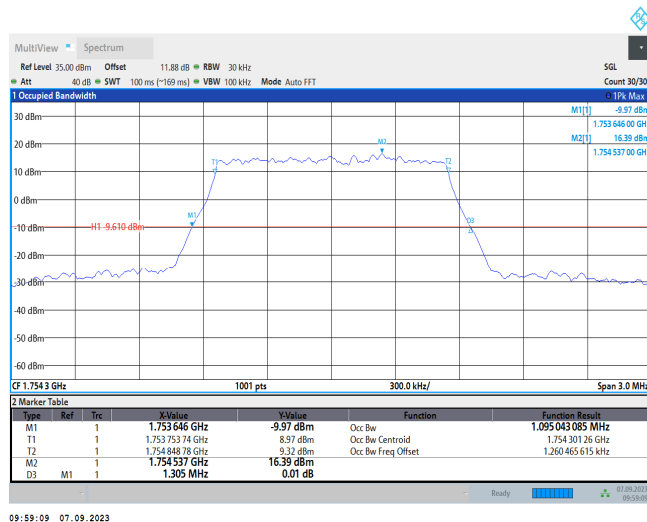
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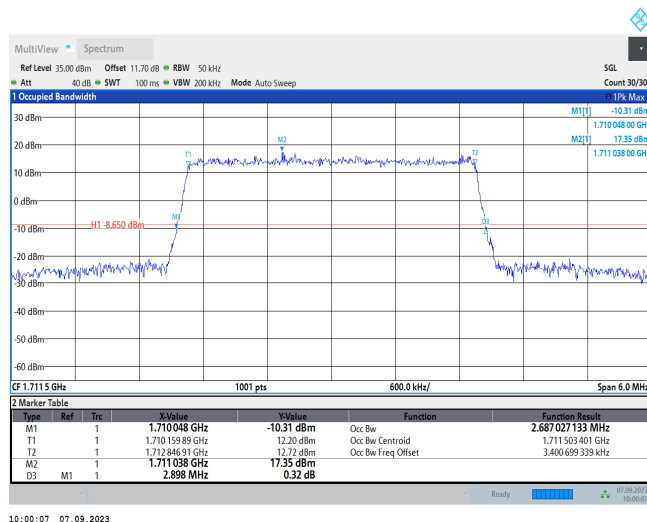
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Band4-3MHz-QPSK-19965-15RB#0



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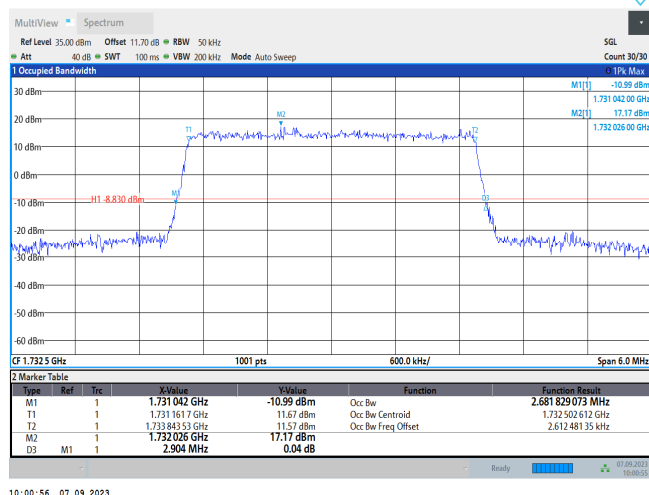
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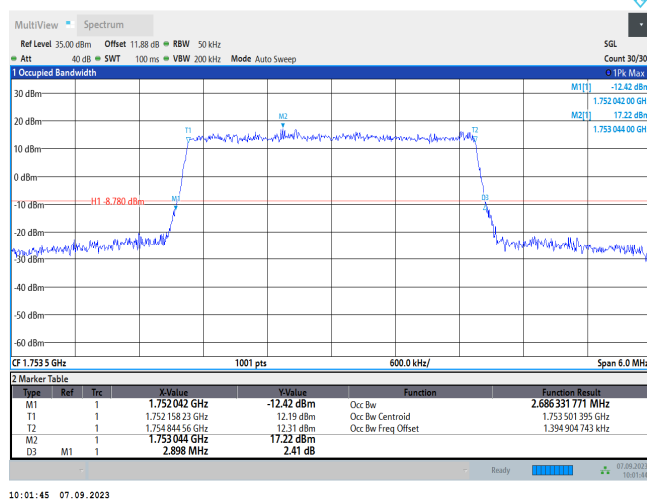
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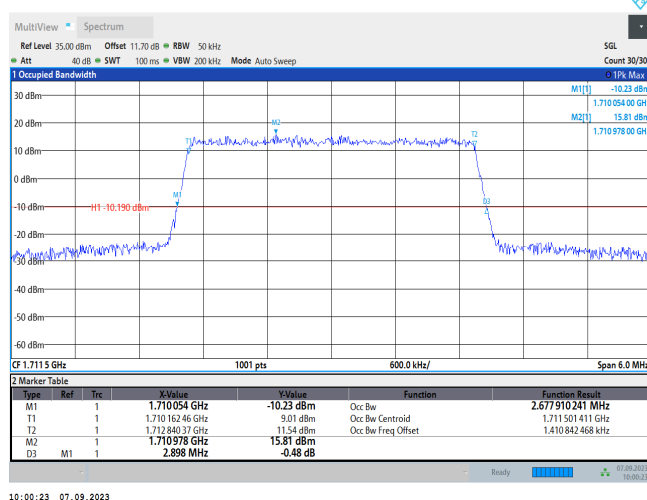
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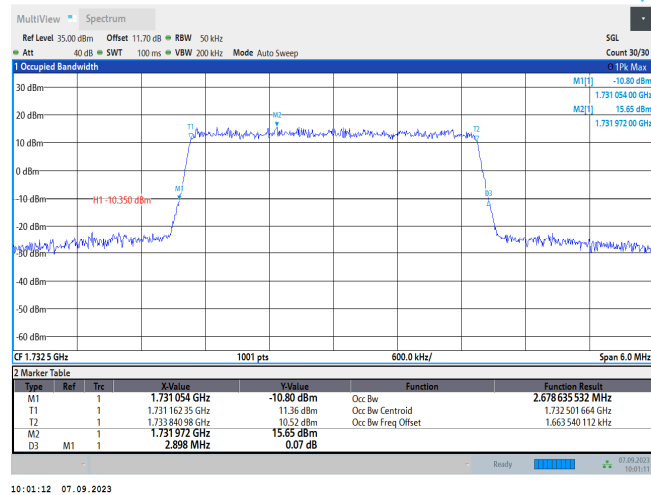
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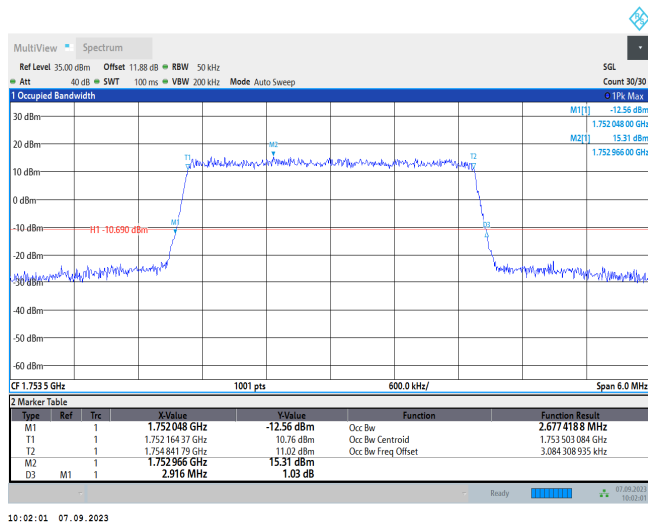
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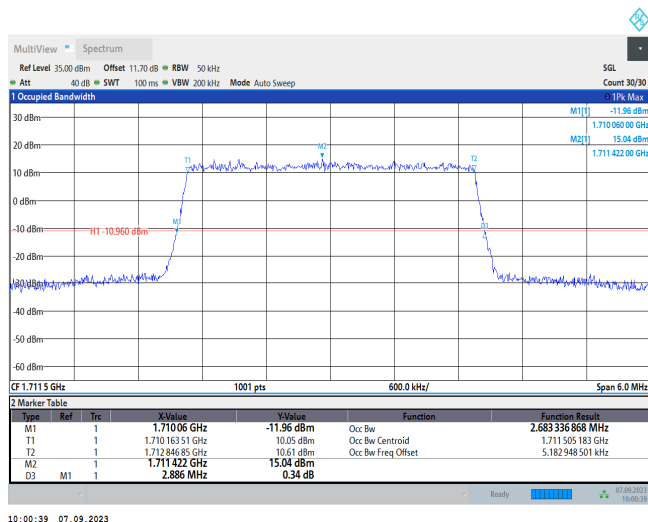
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Band4-3MHz-16QAM-20385-15RB#0



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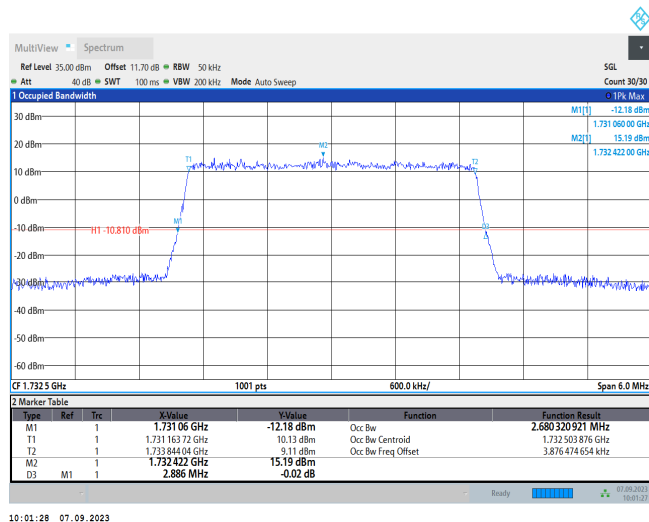


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Band4-3MHz-64QAM-20175-15RB#0



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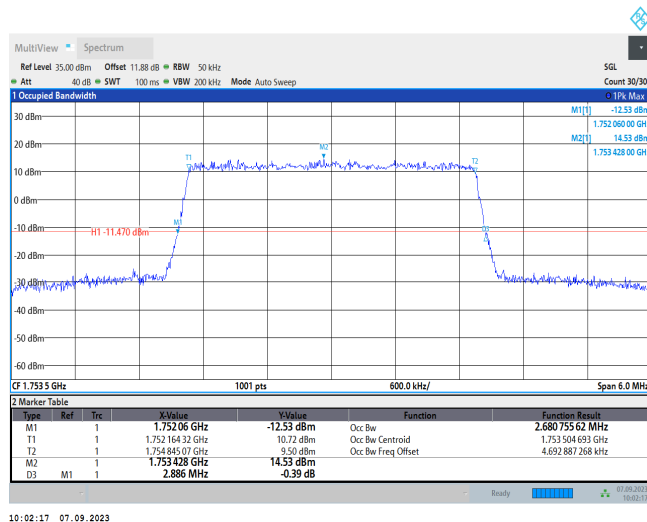
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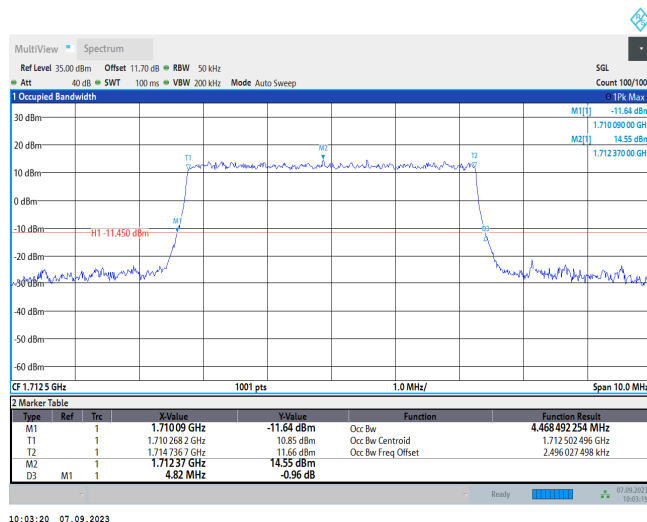
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Band4-5MHz-QPSK-19975-25RB#0

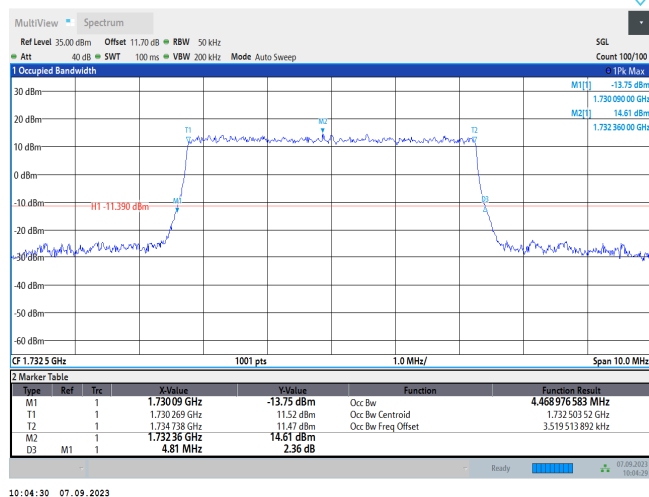


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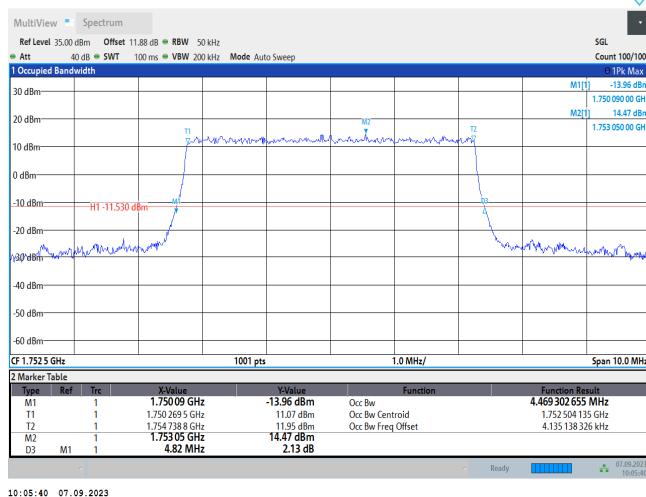


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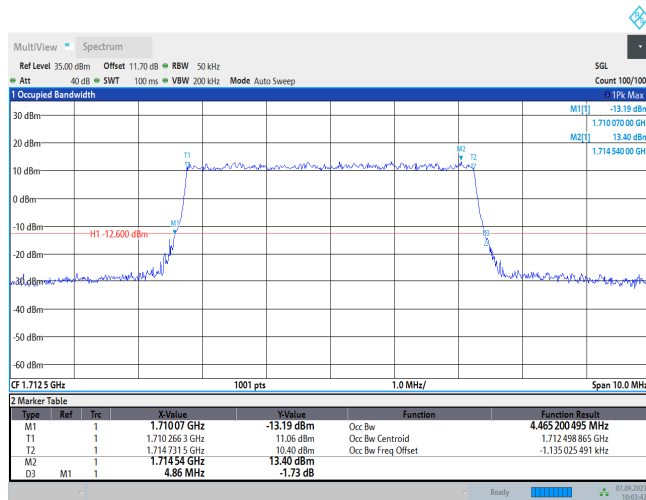
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Band4-5MHz-16QAM-19975-25RB#0



10:03:43 07.09.2023



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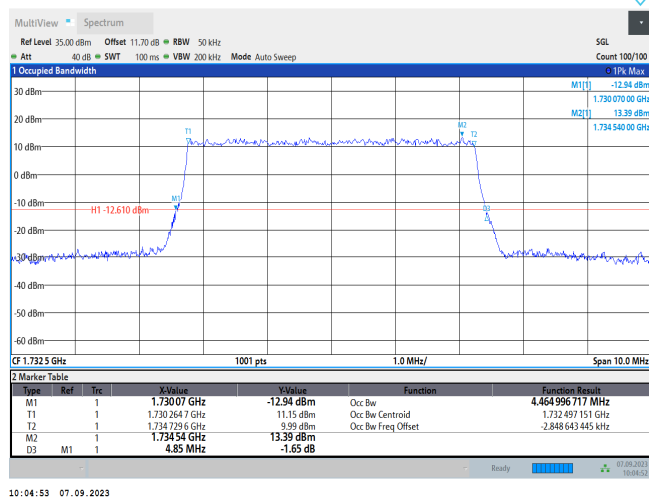
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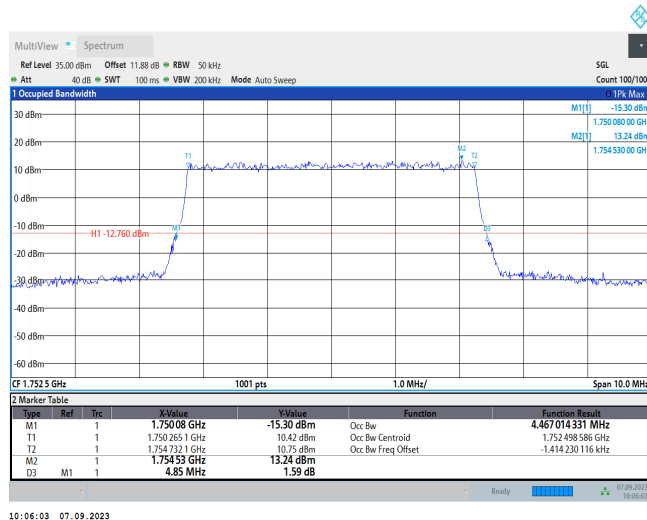


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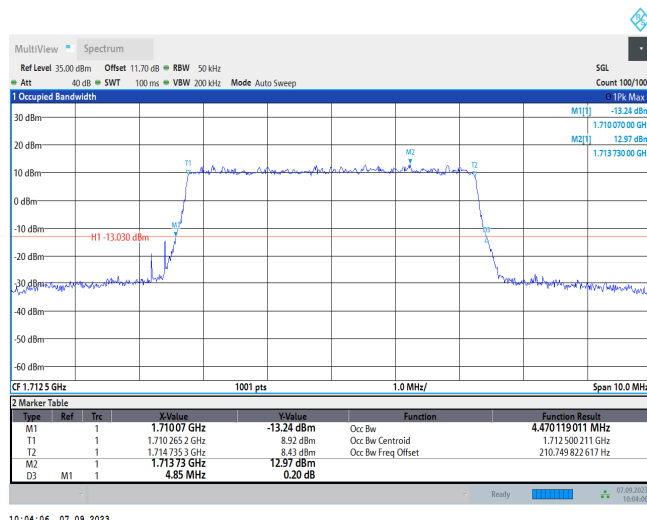
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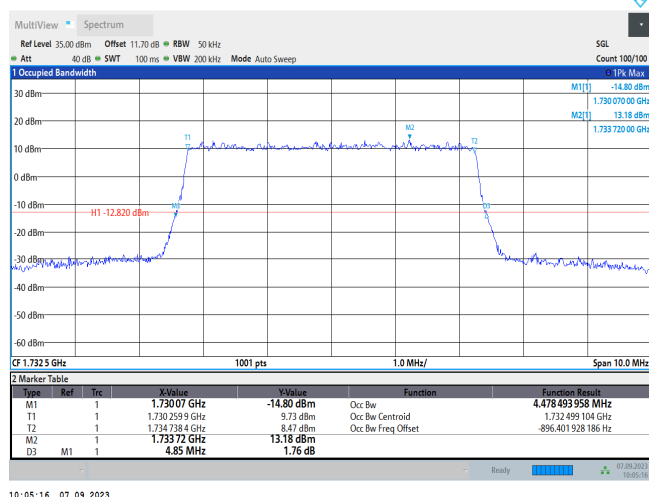
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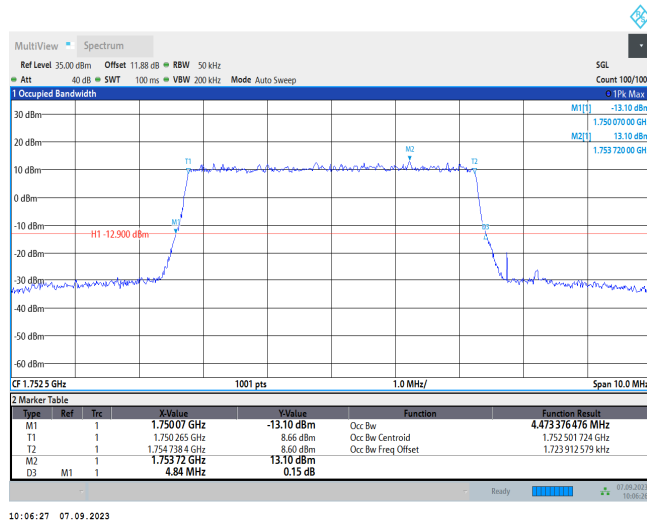
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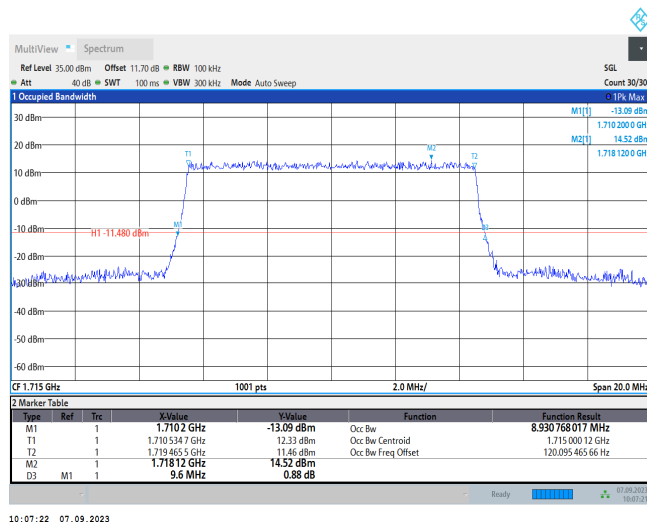
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Band4-10MHz-QPSK-20000-50RB#0



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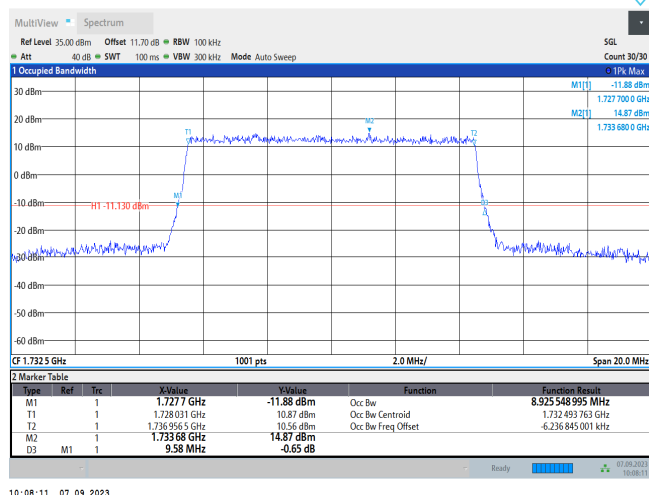
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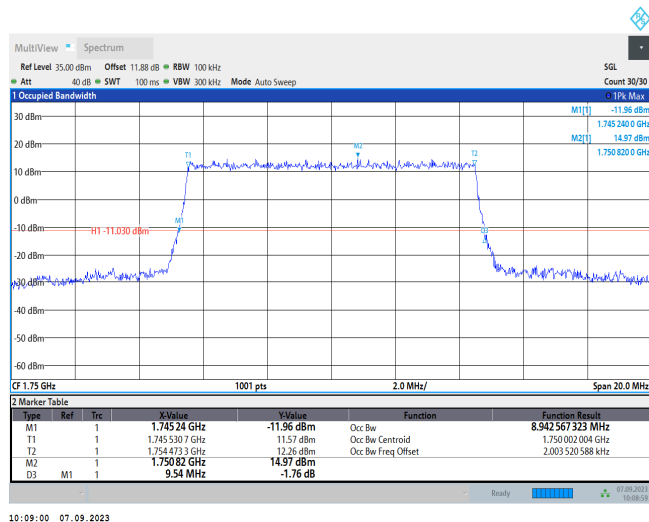


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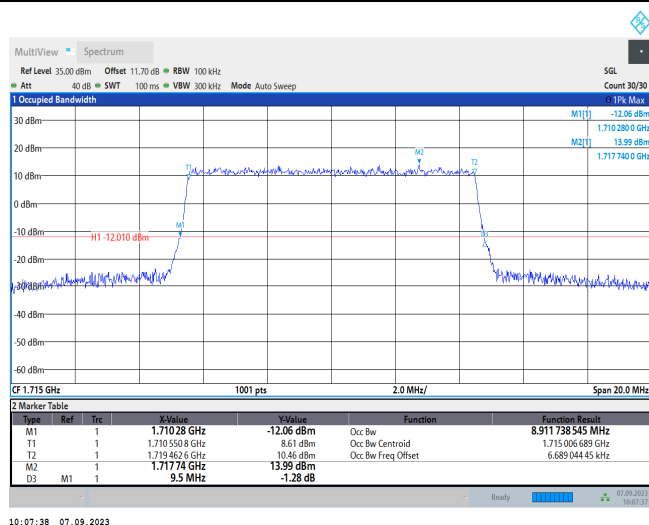
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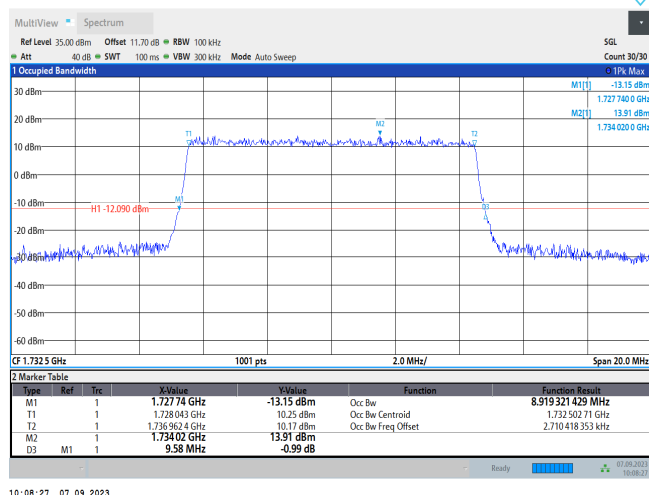


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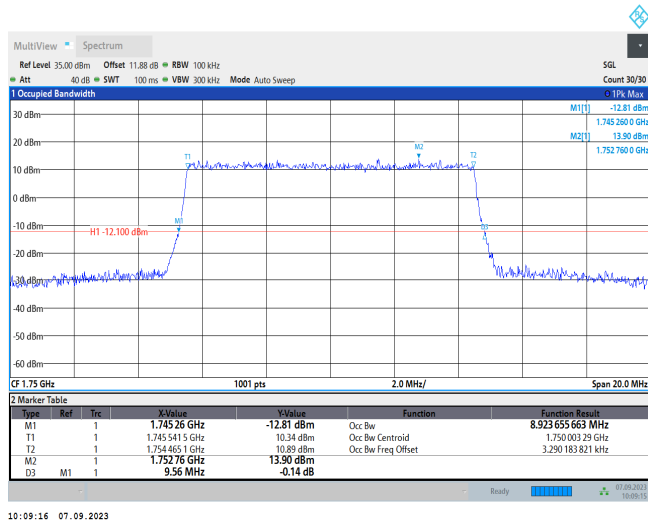
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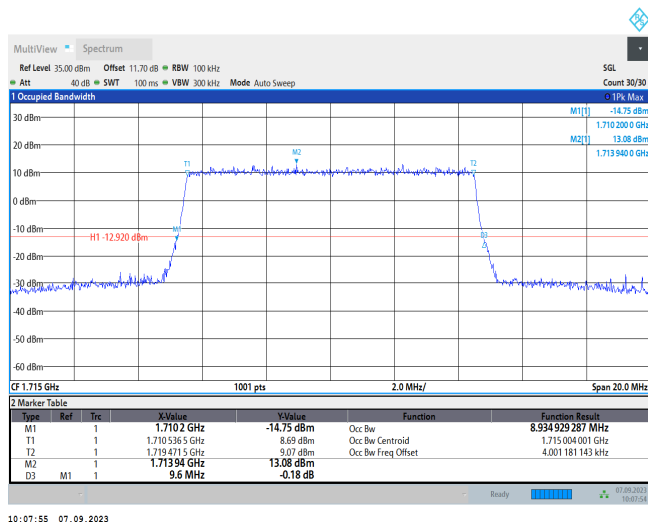
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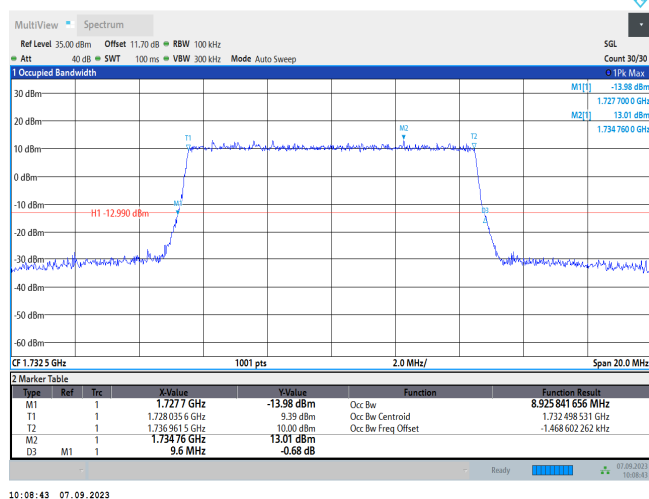
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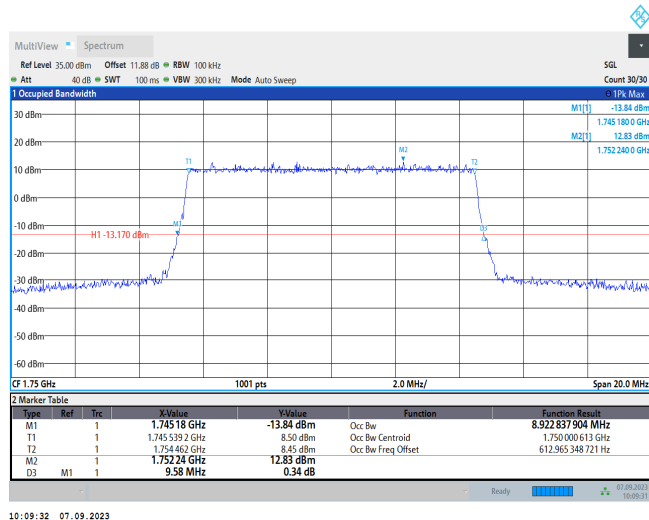


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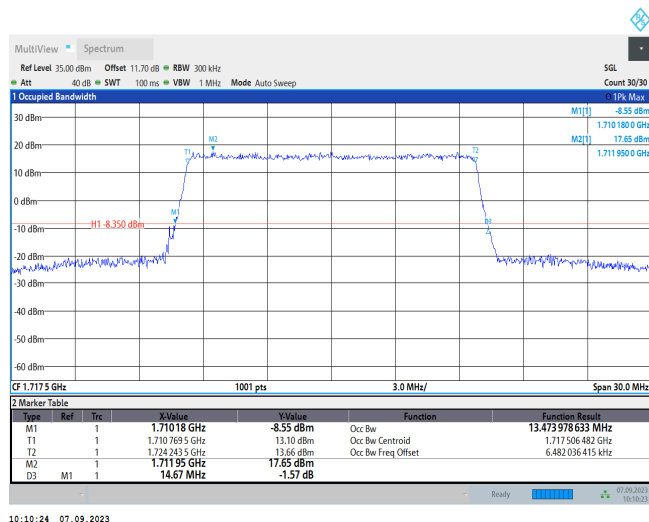
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Band4-15MHz-QPSK-20025-75RB#0



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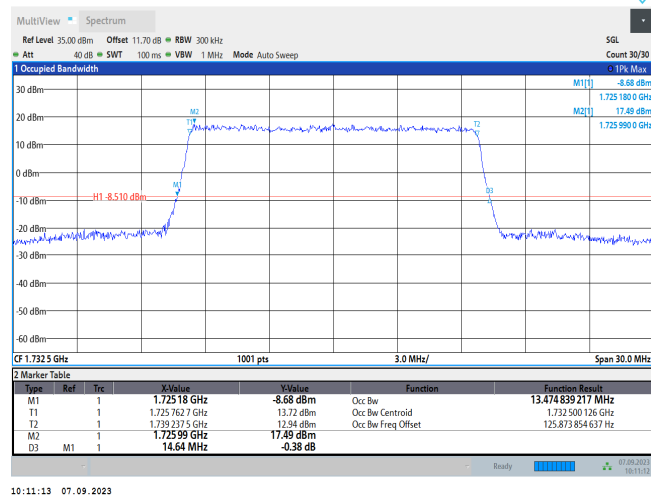
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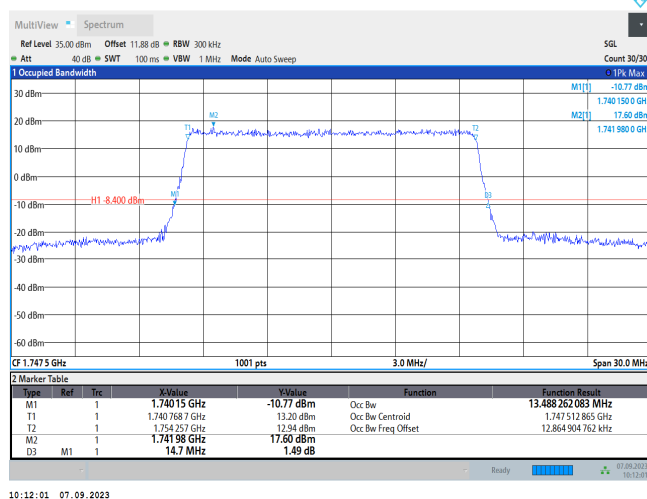
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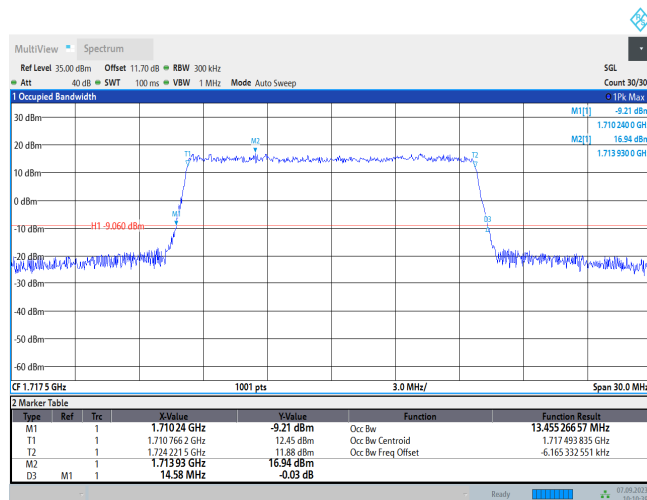
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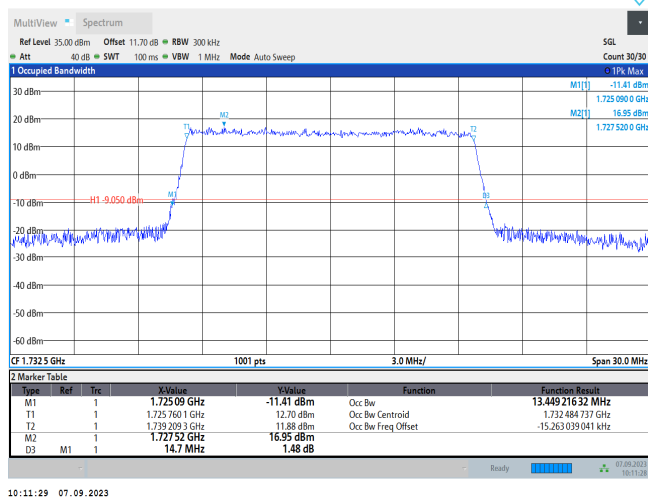
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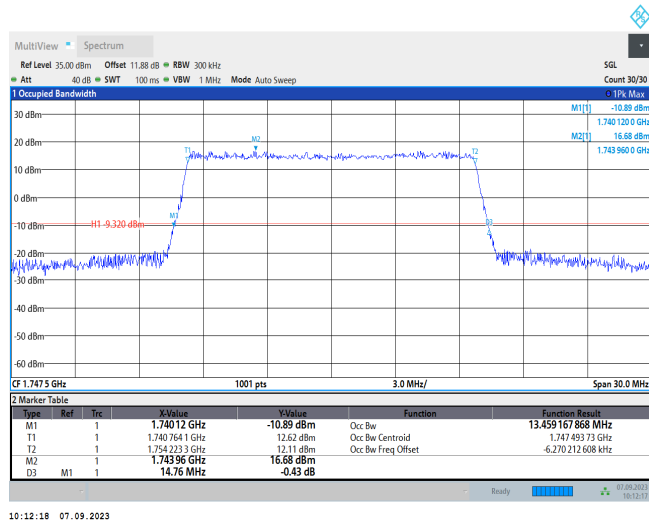


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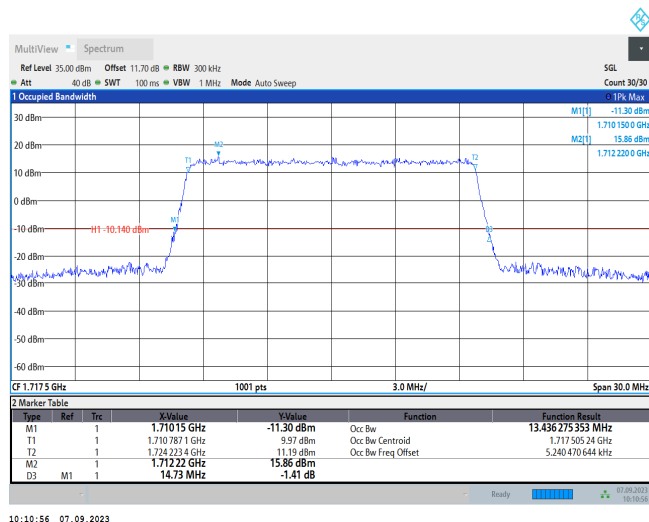
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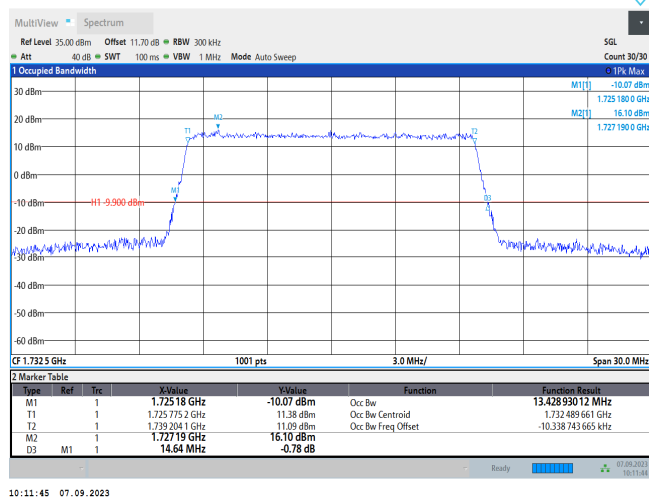
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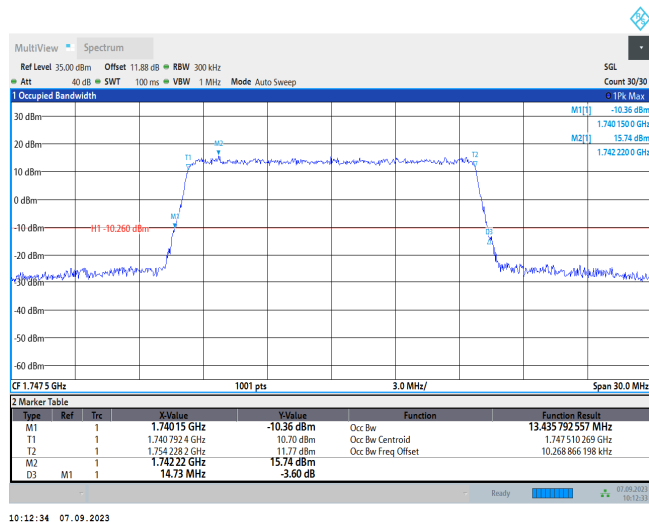


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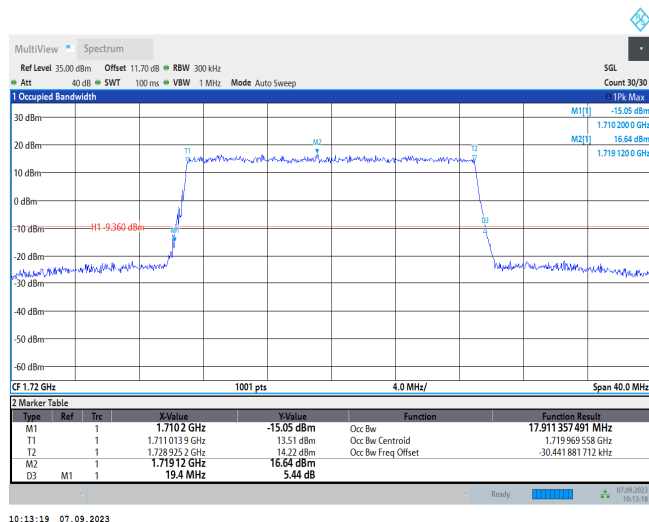
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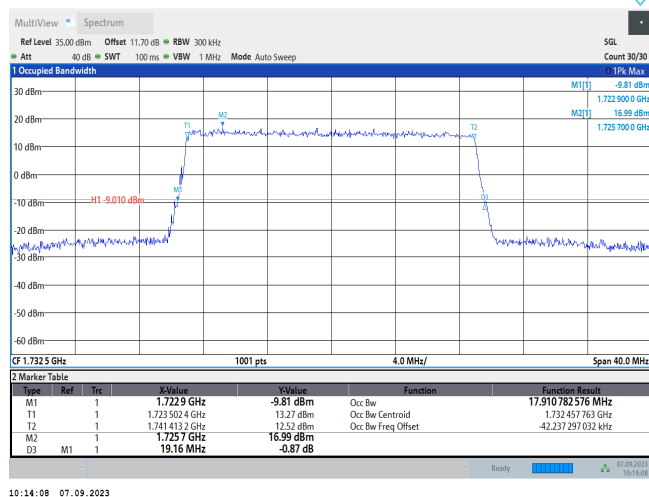
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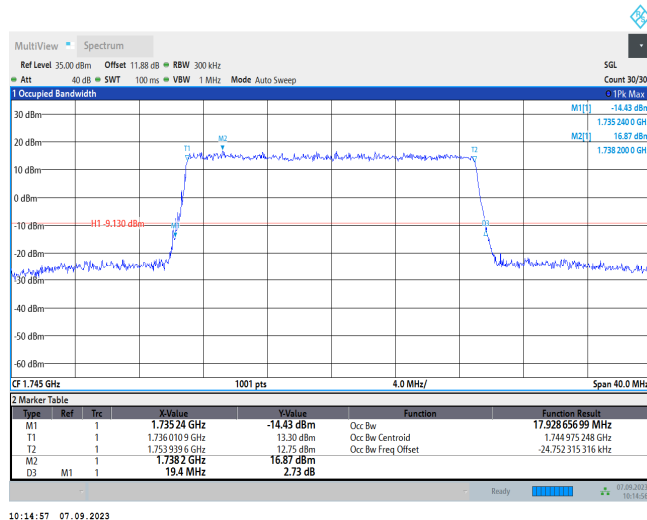
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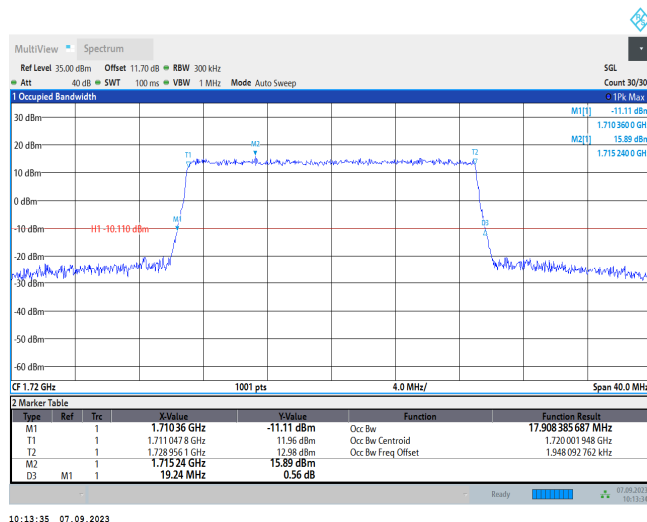
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Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-100RB#0



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Band4-20MHz-16QAM-20175-100RB#0

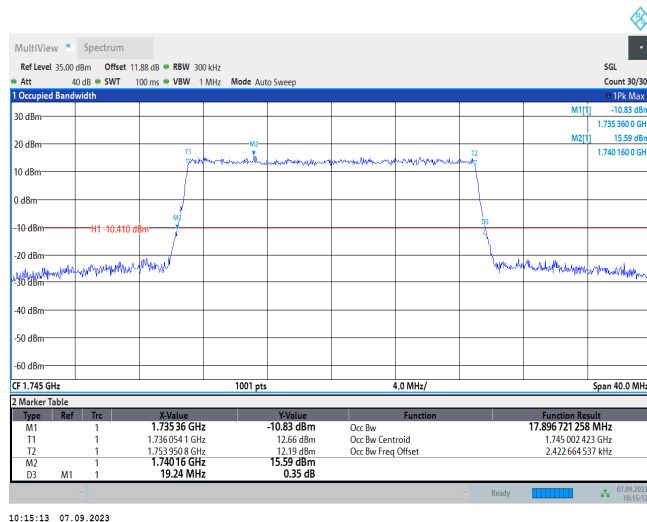


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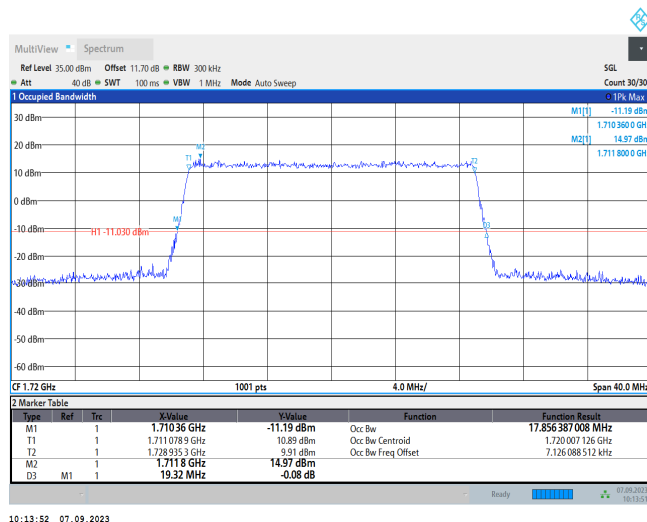
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Band4-20MHz-16QAM-20300-100RB#0



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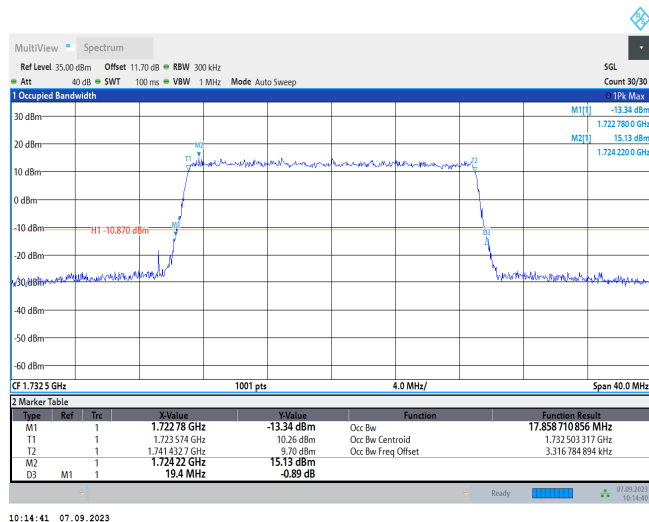


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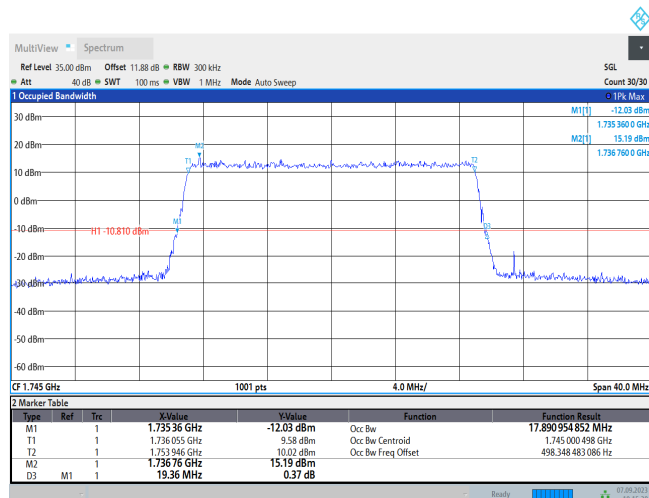
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Band4-20MHz-64QAM-20175-100RB#0



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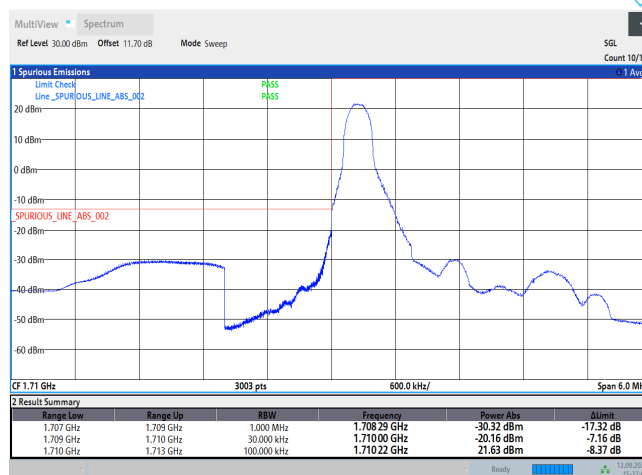
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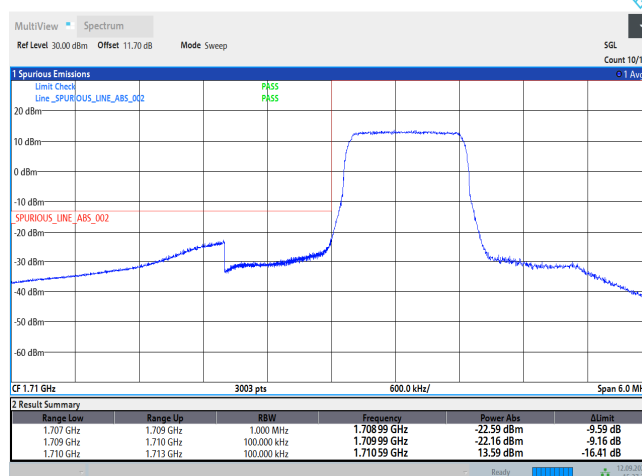
Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



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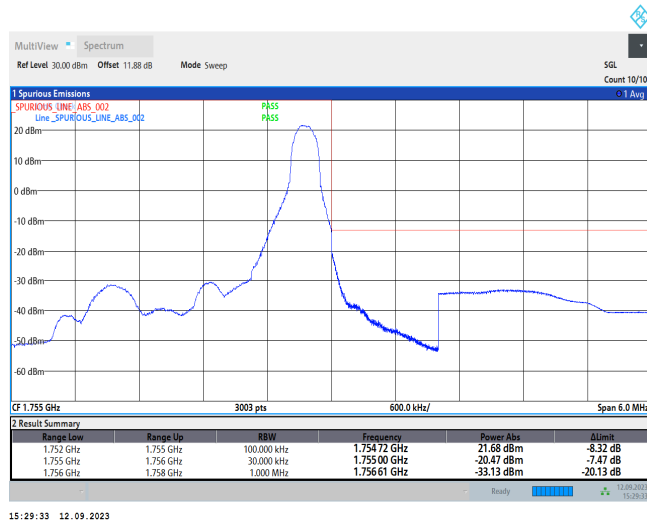
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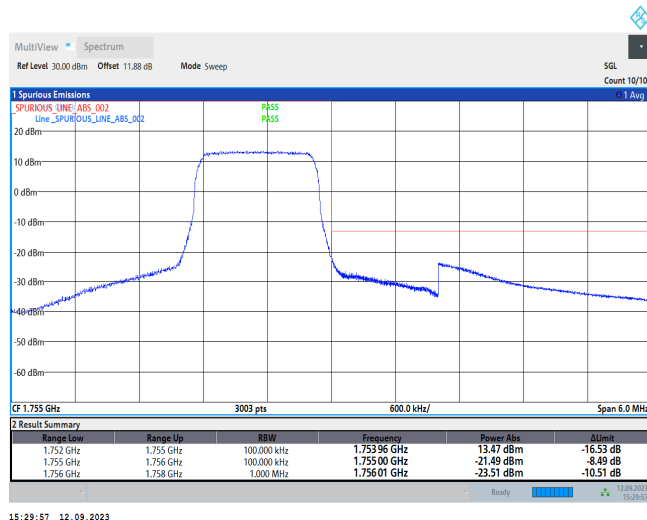
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Band4-1.4MHz-QPSK-20393-1RB#5



Band4-1.4MHz-QPSK-20393-6RB#0



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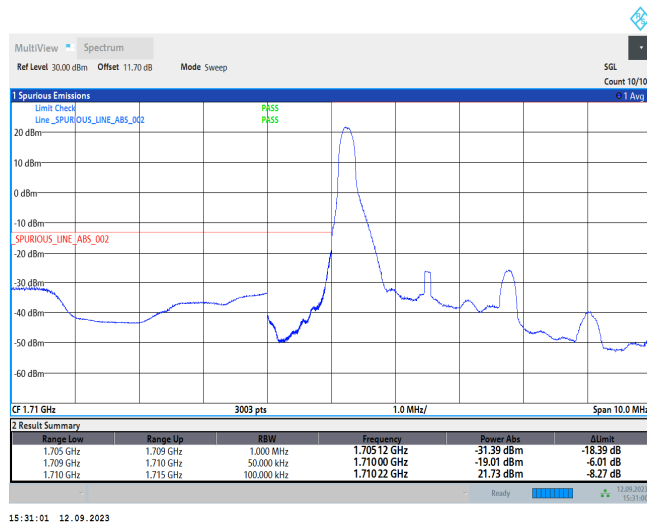
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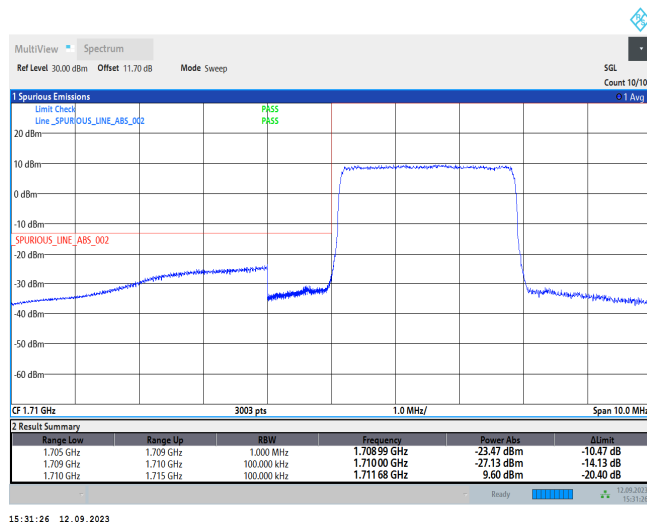
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Band4-3MHz-QPSK-19965-15RB#0

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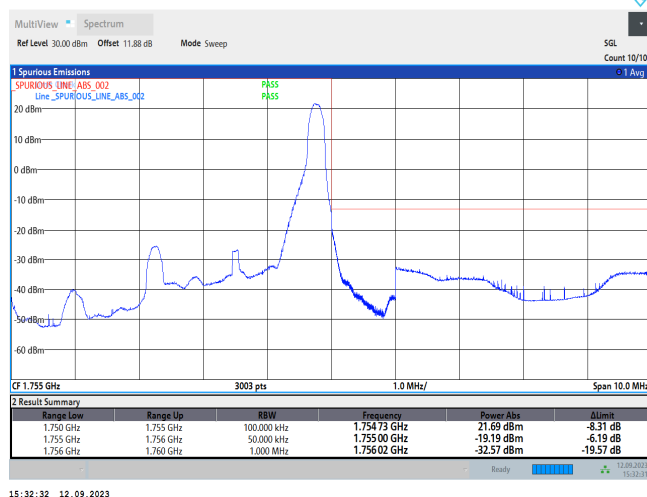
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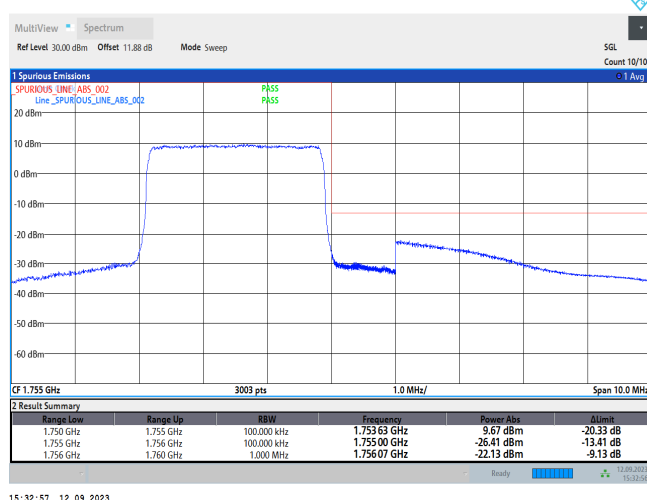
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Band4-3MHz-QPSK-20385-15RB#0



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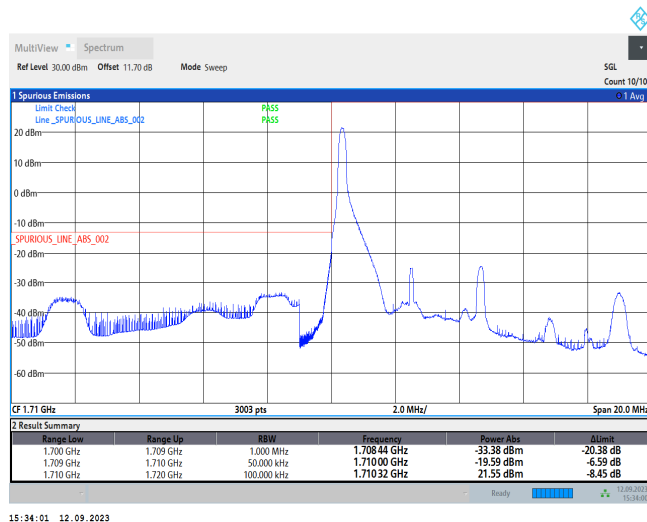
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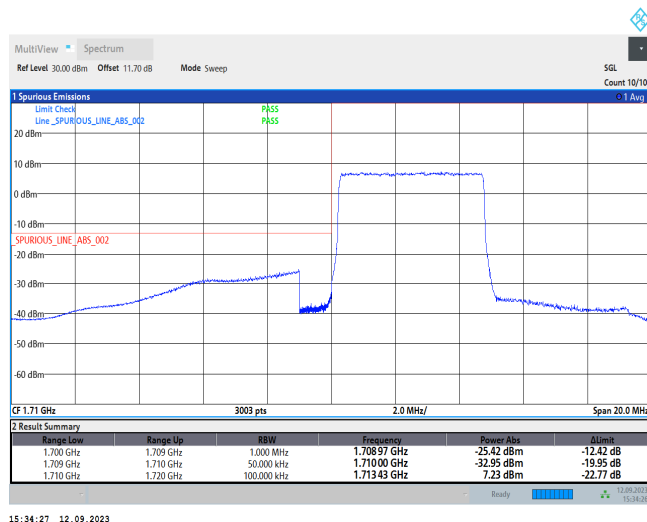
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Band4-5MHz-QPSK-19975-1RB#0



Band4-5MHz-QPSK-19975-25RB#0

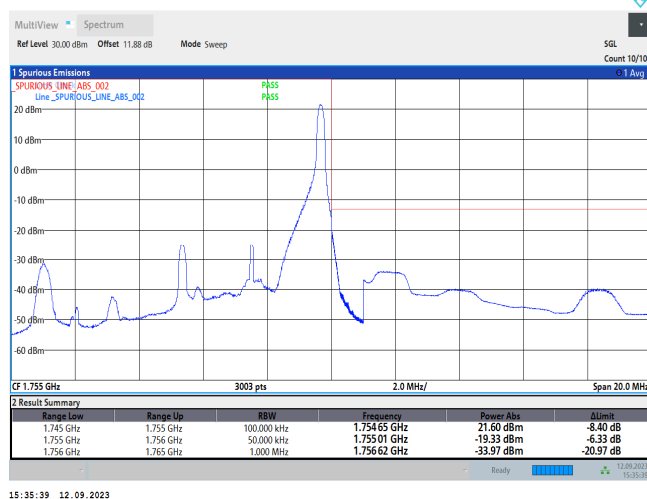


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Band4-5MHz-QPSK-20375-25RB#0

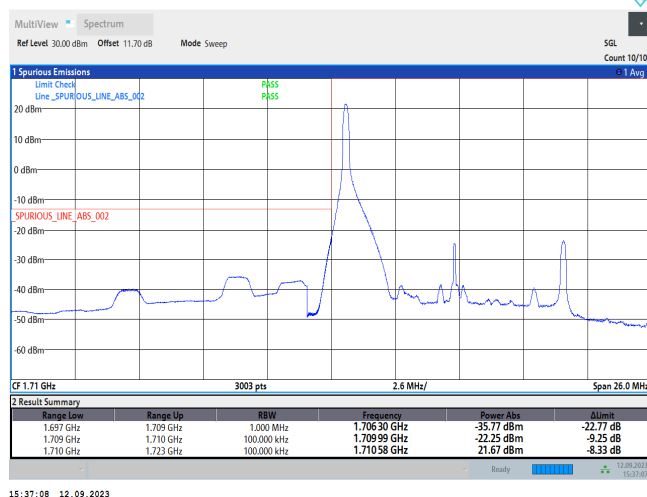


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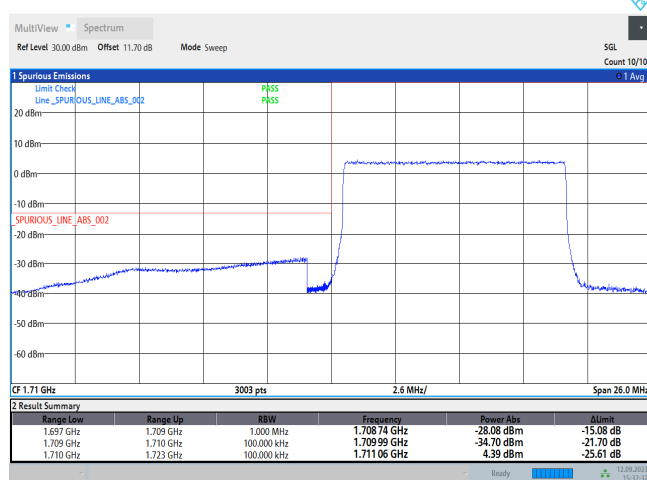
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Band4-10MHz-QPSK-20000-1RB#0



15:37:08 12.09.2023

Band4-10MHz-QPSK-20000-50RB#0



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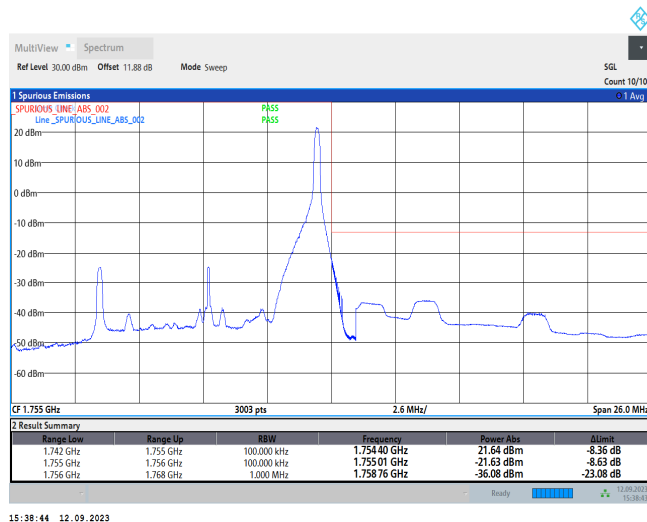
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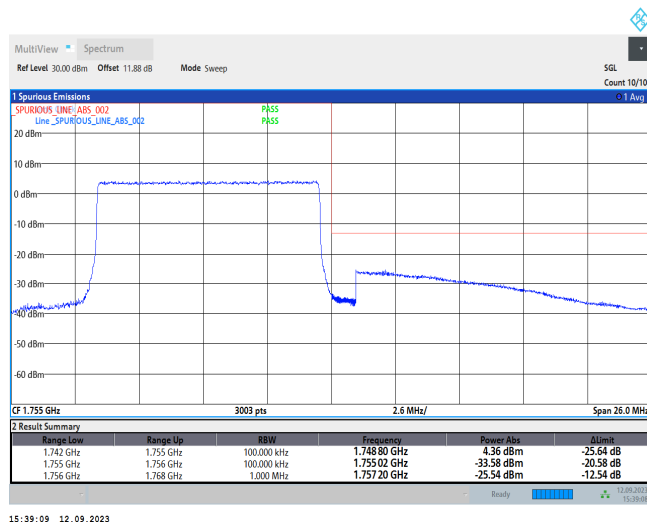
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Band4-10MHz-QPSK-20350-1RB#49



Band4-10MHz-QPSK-20350-50RB#0

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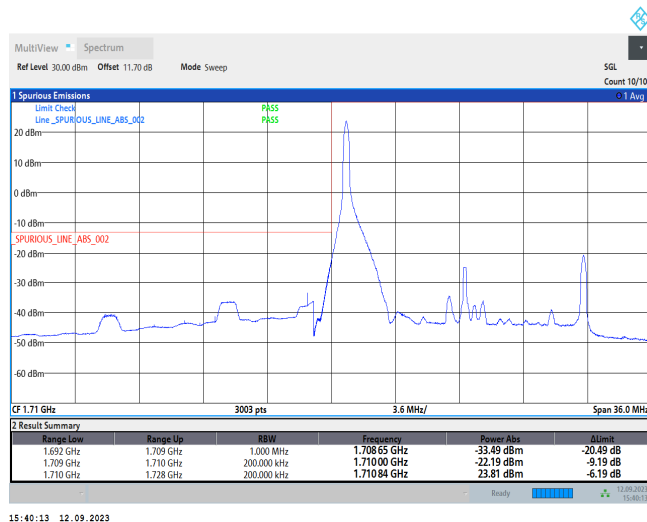
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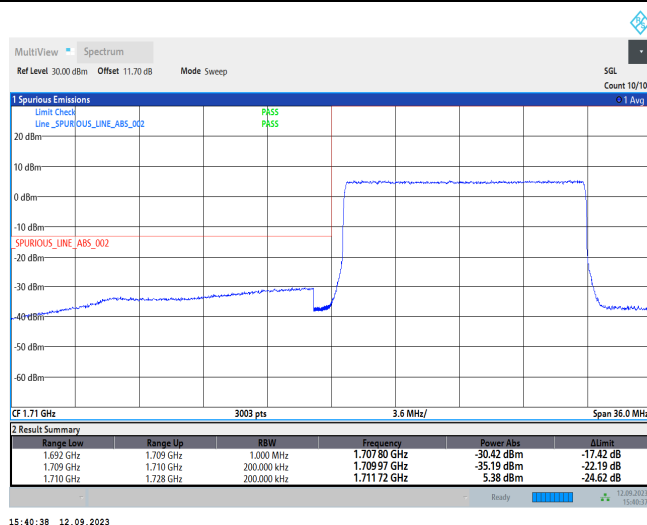
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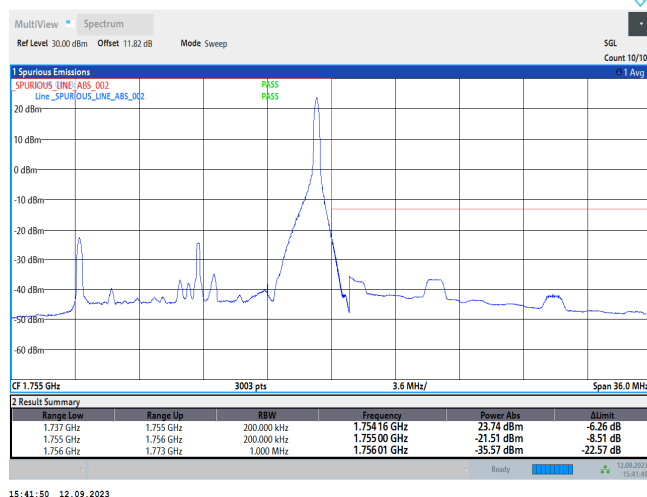


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Band4-15MHz-QPSK-20325-75RB#0



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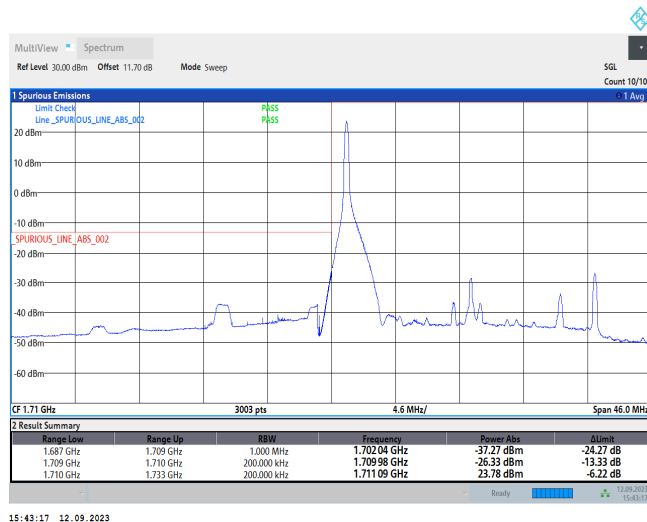
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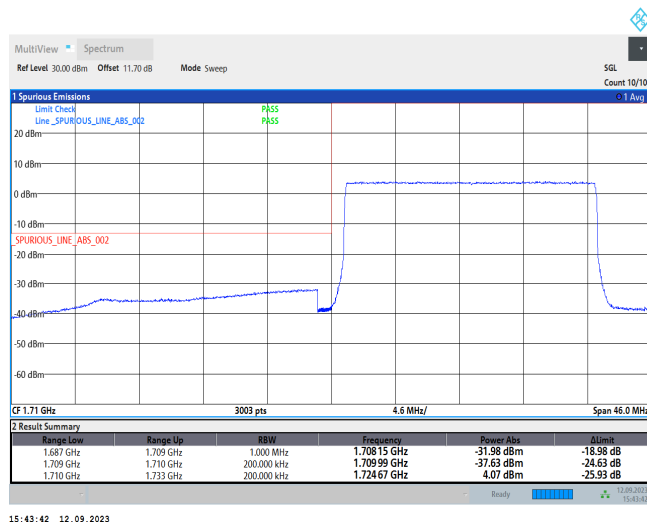
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Band4-20MHz-QPSK-20050-1RB#0



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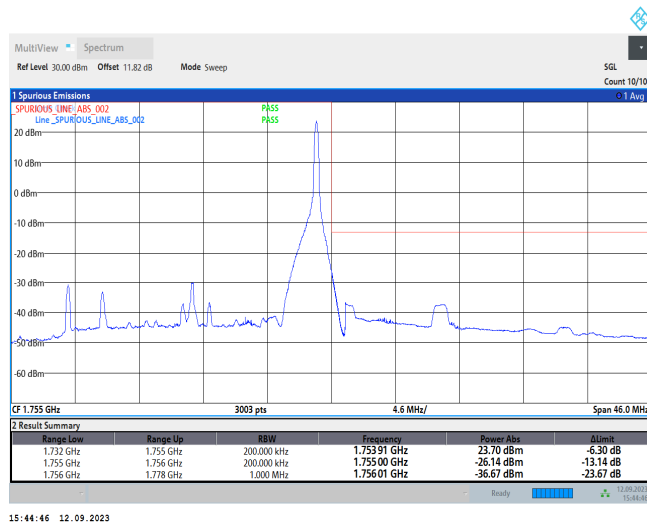


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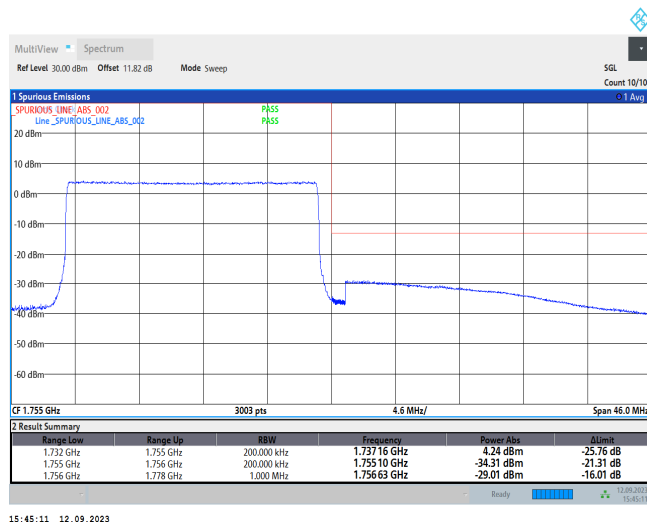
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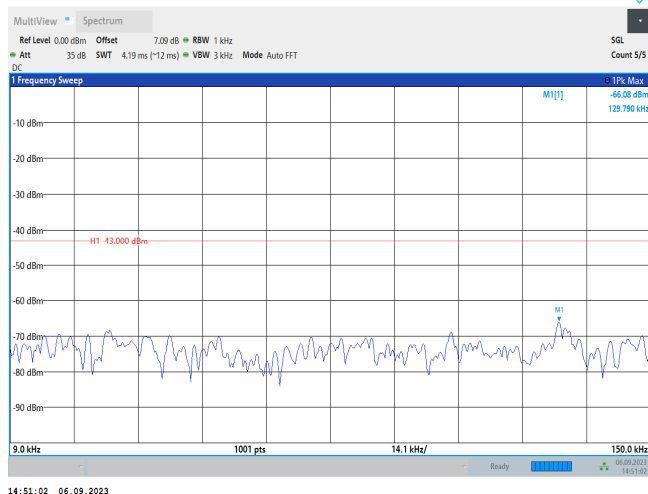


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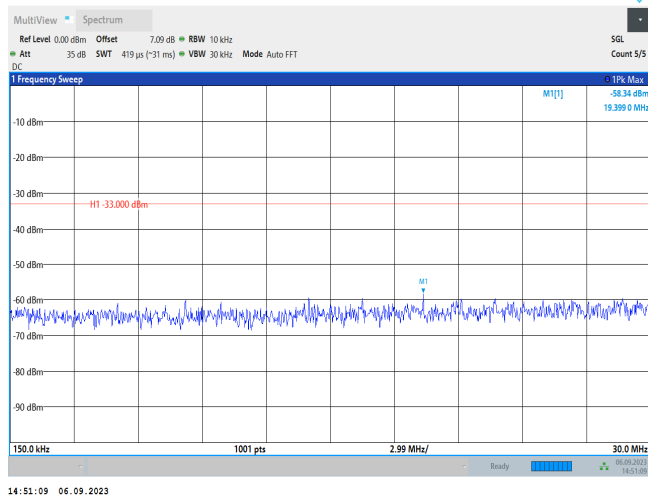
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



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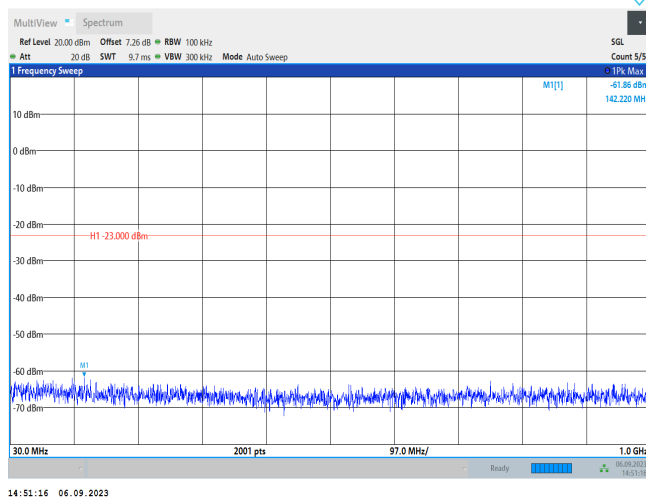
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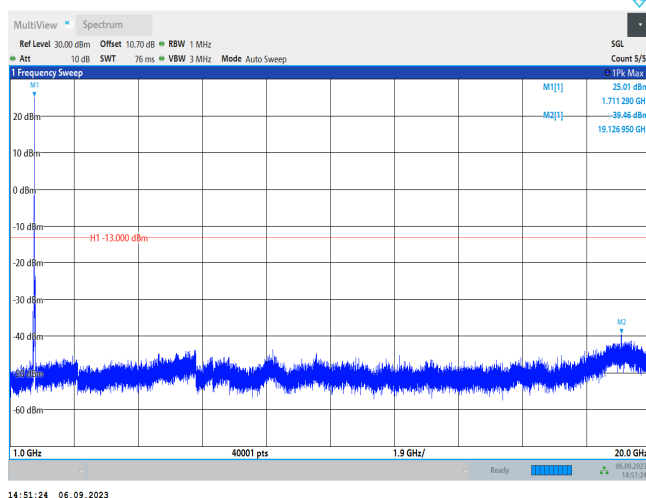
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



14:51:16 06.09.2023

Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



14:51:24 06.09.2023



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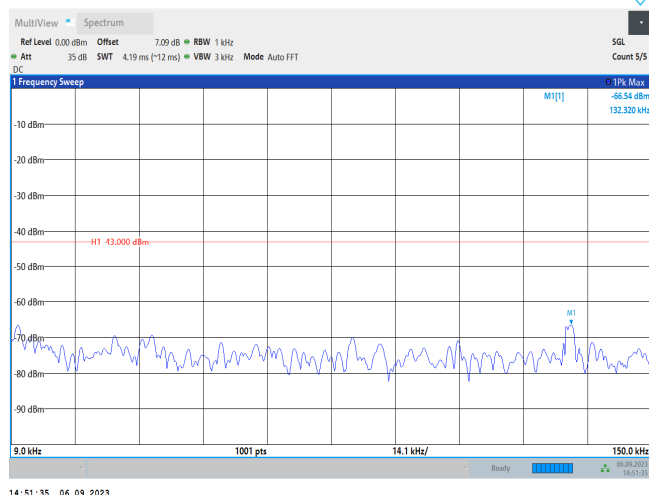
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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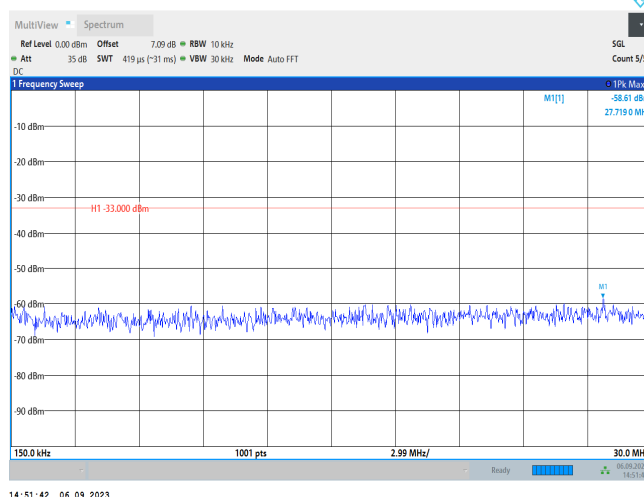
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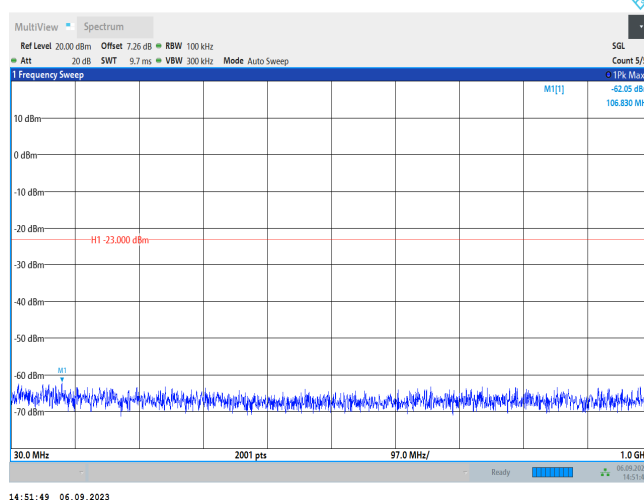
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Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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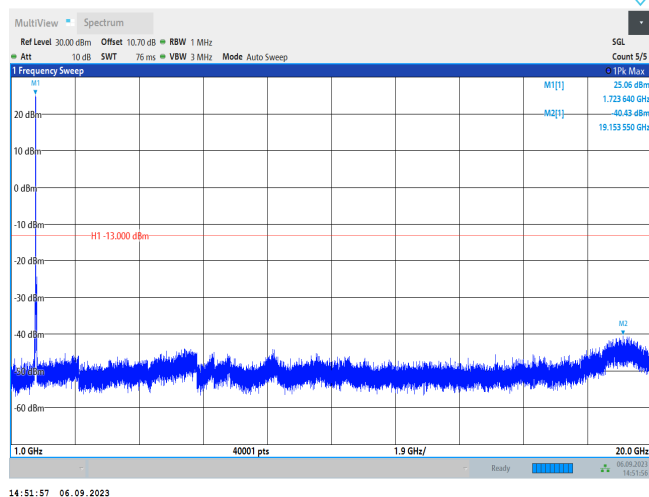
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Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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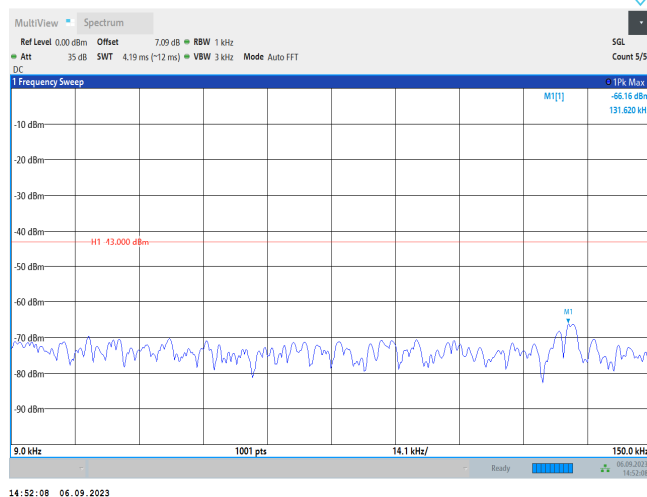
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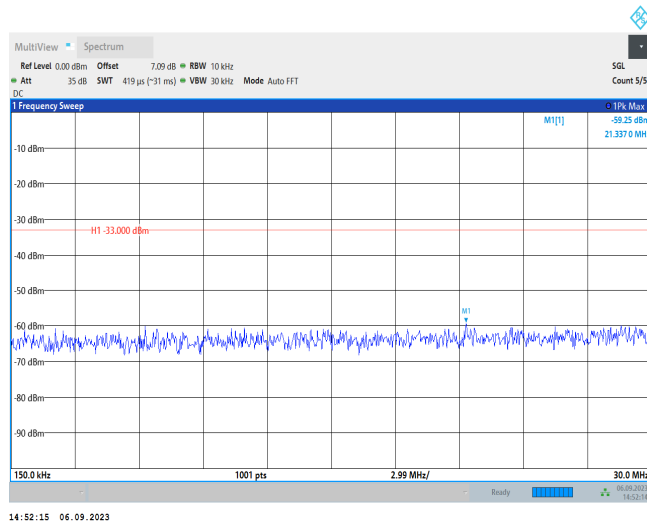
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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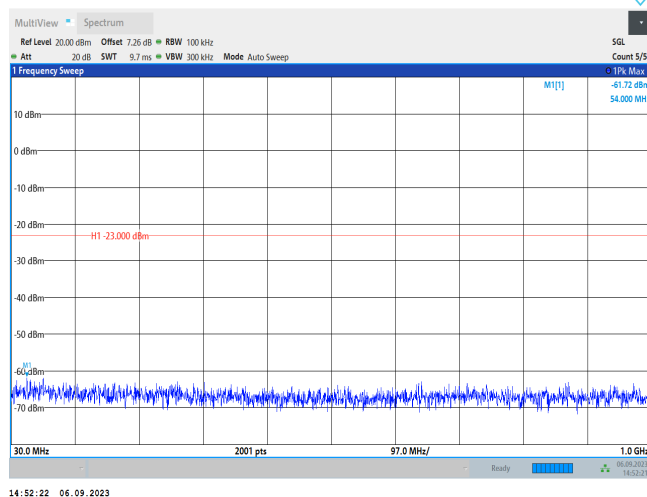
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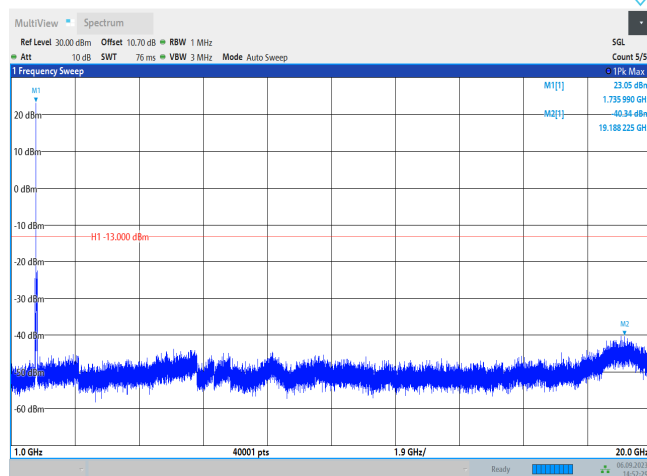
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Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_4_20MHz

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2994	37.51	-21.78	28.56	-50.97	-13.00	37.97	Horizontal
2	3422	49.02	-45.33	28.73	-62.84	-13.00	49.84	Horizontal
3	4274.5	47.45	-43.45	29.65	-61.61	-13.00	48.61	Horizontal
4	7507.5	43.78	-38.33	36.83	-52.98	-13.00	39.98	Horizontal
5	11093	42.72	-37.55	40.19	-49.90	-13.00	36.90	Horizontal
6	16406	41.14	-34.87	38.83	-50.16	-13.00	37.16	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996	37.40	-21.78	28.58	-51.06	-13.00	38.06	Vertical
2	5133.5	49.04	-42.53	31.70	-57.05	-13.00	44.05	Vertical
3	7488	43.66	-38.29	36.88	-53.01	-13.00	40.01	Vertical
4	9897	42.12	-34.98	38.58	-49.54	-13.00	36.54	Vertical
5	13567.5	42.57	-37.89	40.04	-50.54	-13.00	37.54	Vertical
6	17986	40.52	-43.15	47.95	-49.94	-13.00	36.94	Vertical



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Test Band = LTE_4_20MHz
Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2974.5	37.50	-21.81	28.45	-51.12	-13.00	38.12	Horizontal
2	3447.5	48.83	-45.26	28.89	-62.80	-13.00	49.80	Horizontal
3	5408.5	44.80	-41.98	32.45	-59.99	-13.00	46.99	Horizontal
4	7512	43.75	-38.35	36.78	-53.08	-13.00	40.08	Horizontal
5	9909.5	41.86	-35.21	38.61	-50.00	-13.00	37.00	Horizontal
6	16396	41.58	-34.84	38.79	-49.73	-13.00	36.73	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996	37.40	-21.78	28.58	-51.06	-13.00	38.06	Vertical
2	4245.5	46.68	-43.49	29.78	-62.29	-13.00	49.29	Vertical
3	5171	48.45	-42.54	31.84	-57.51	-13.00	44.51	Vertical
4	7408.5	43.73	-38.28	36.72	-53.09	-13.00	40.09	Vertical
5	9886.5	42.01	-35.06	38.49	-49.82	-13.00	36.82	Vertical
6	16399	41.40	-34.83	38.80	-49.89	-13.00	36.89	Vertical



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Test Band = LTE_4_20MHz
Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996.5	37.37	-21.78	28.58	-51.09	-13.00	38.09	Horizontal
2	3472	49.42	-45.19	28.99	-62.04	-13.00	49.04	Horizontal
3	5629	45.23	-41.35	32.54	-58.84	-13.00	45.84	Horizontal
4	7392.5	44.03	-38.33	36.67	-52.89	-13.00	39.89	Horizontal
5	9912.5	41.99	-35.29	38.61	-49.95	-13.00	36.95	Horizontal
6	16398.5	41.35	-34.83	38.80	-49.94	-13.00	36.94	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2986	37.72	-21.79	28.52	-50.81	-13.00	37.81	Vertical
2	5208.5	47.45	-42.53	31.85	-58.49	-13.00	45.49	Vertical
3	7496	43.49	-38.29	36.89	-53.17	-13.00	40.17	Vertical
4	9913	41.80	-35.30	38.61	-50.15	-13.00	37.15	Vertical
5	13642	42.23	-37.91	40.14	-50.80	-13.00	37.80	Vertical
6	16349	42.12	-35.10	38.65	-49.59	-13.00	36.59	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-7.37	-0.004254	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-4.43	-0.002557	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-7.84	-0.004525	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-7.21	-0.004162	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-7.75	-0.004473	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-13.73	-0.007925	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	5.15	0.002973	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-5.25	-0.003030	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-9.28	-0.005356	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-9.30	-0.005368	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-5.84	-0.003371	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-4.05	-0.002338	PASS

---End of Attachment---

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

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