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Appendix B.4

LTE Band 4



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Member of the SGS Group (SGS SA)

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



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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
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



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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
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



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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
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



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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
Band4	10MHz	16QAM	20175	1RB#0	23.12	22.80	30.00	PASS
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



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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
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



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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
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



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Rev.: 01

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Band4	20MHz	64QAM	20300	100RB#0	20.95	20.63	30.00	PASS
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Member of the SGS Group (SGS SA)

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



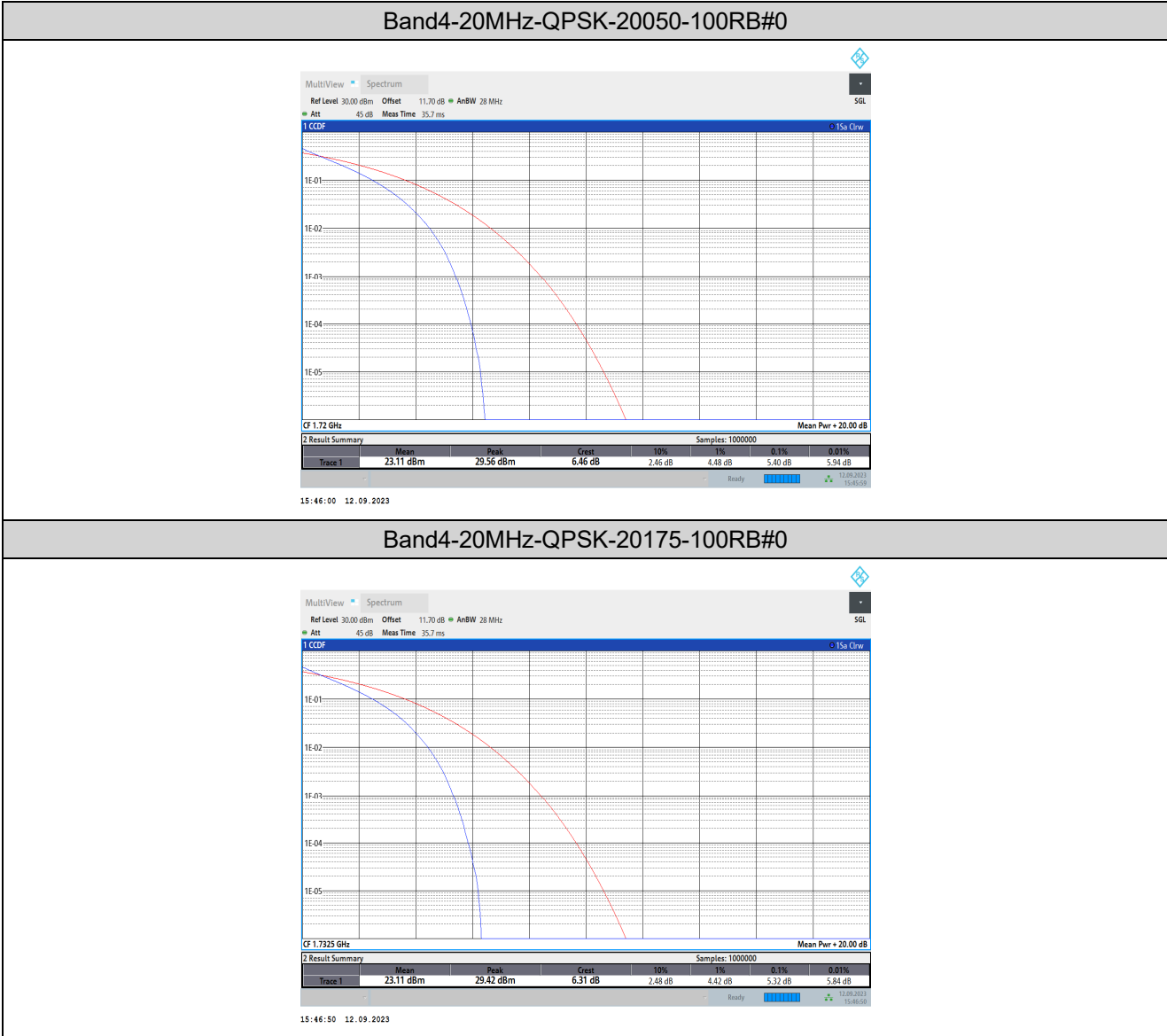
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Test Graphs

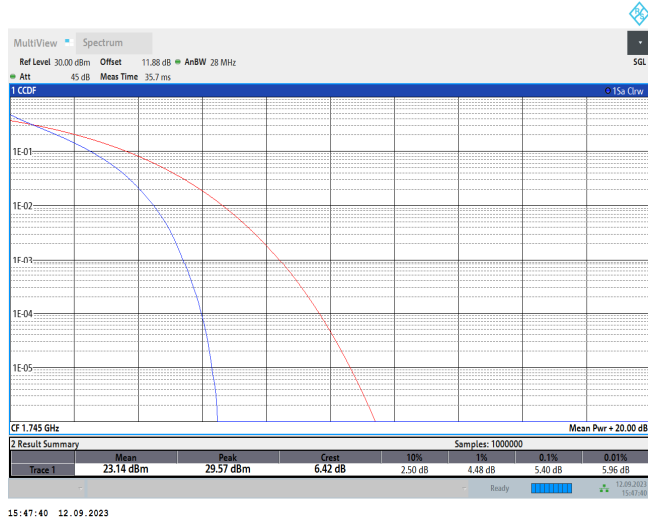


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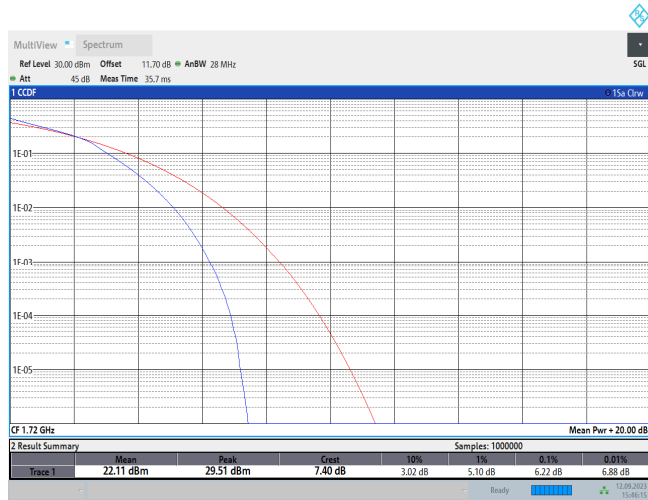
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Band4-20MHz-QPSK-20300-100RB#0



15:47:40 12.09.2023

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

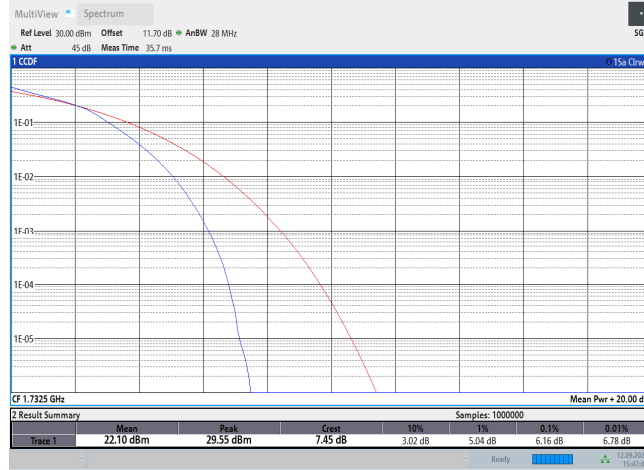


15:46:16 12.09.2023



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

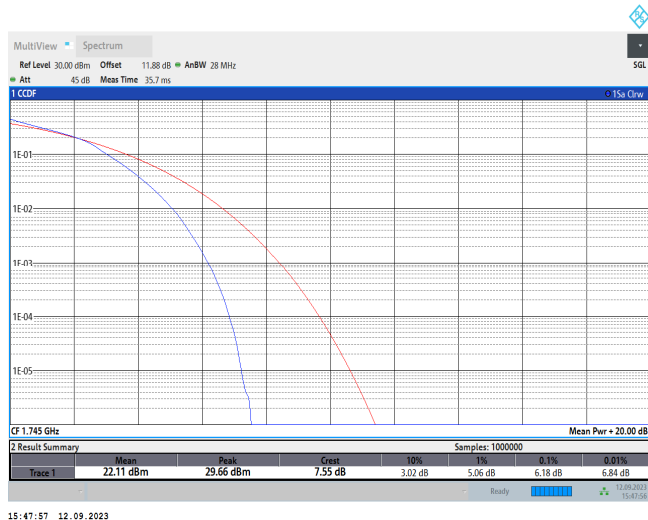


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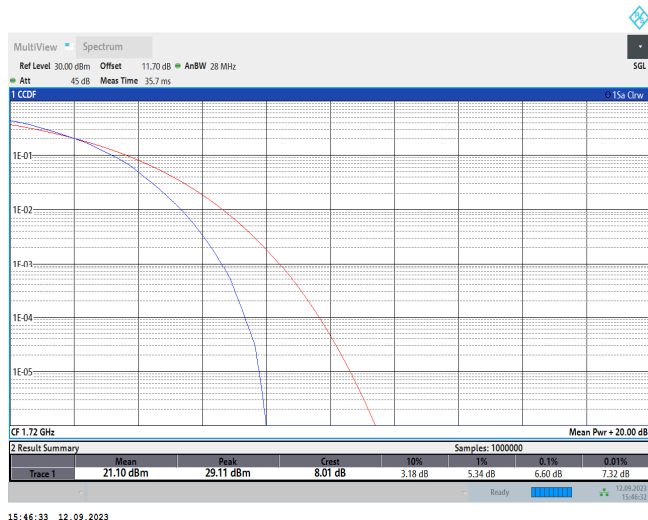
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Band4-20MHz-16QAM-20300-100RB#0



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

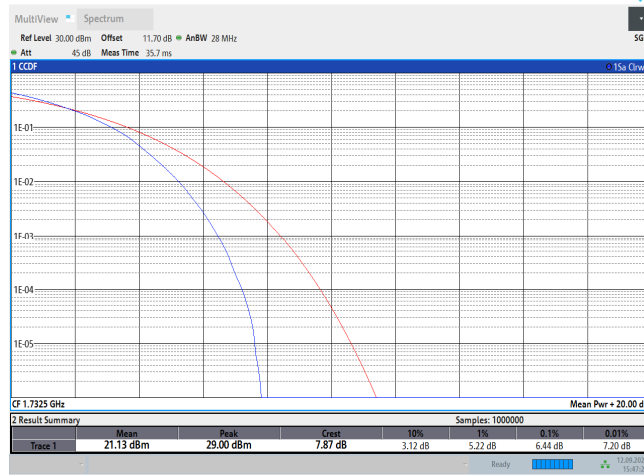


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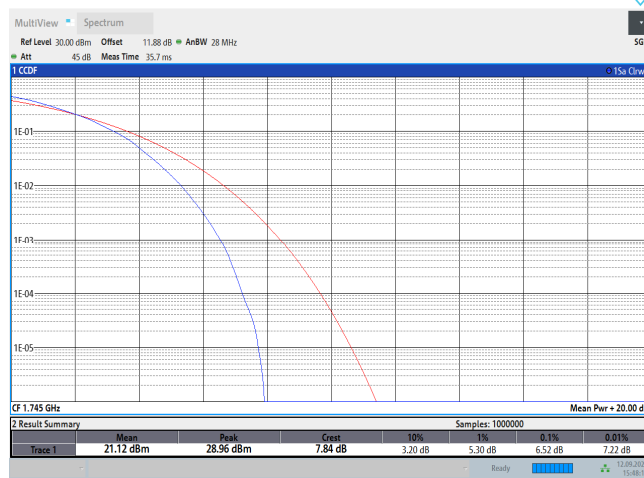
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Band4-20MHz-64QAM-20175-100RB#0



15:47:23 12.09.2023

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



15:48:14 12.09.2023



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
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



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Band4	10MHz	QPSK	20000	50RB#0	8.931	9.60	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.926	9.58	PASS
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

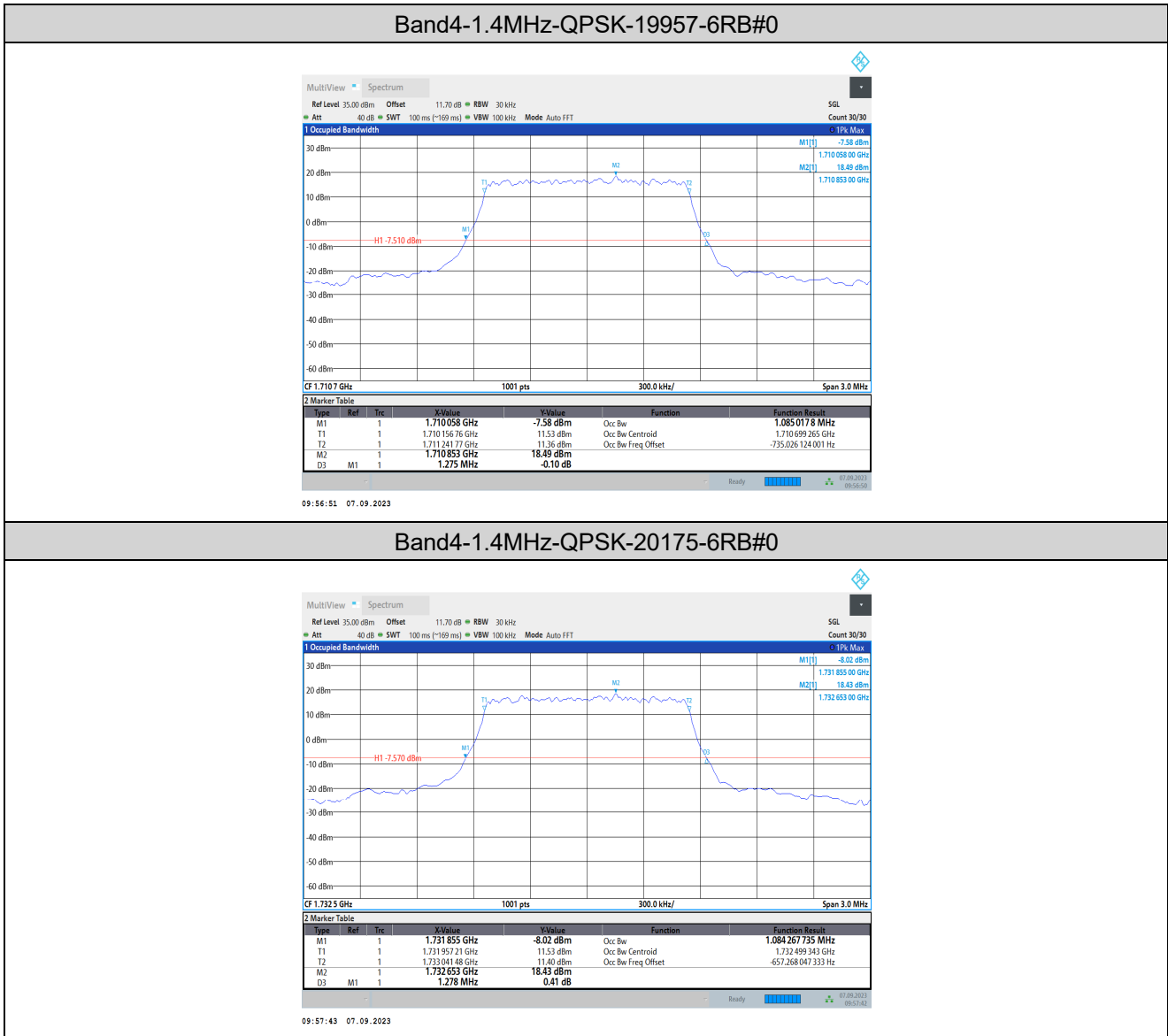


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Test Graphs



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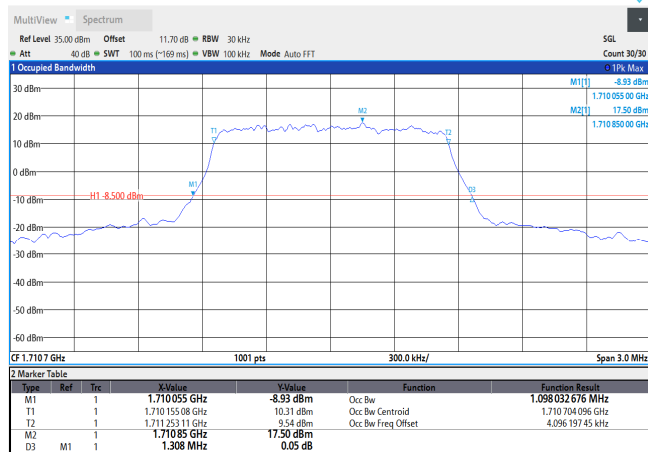
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Band4-1.4MHz-QPSK-20393-6RB#0



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



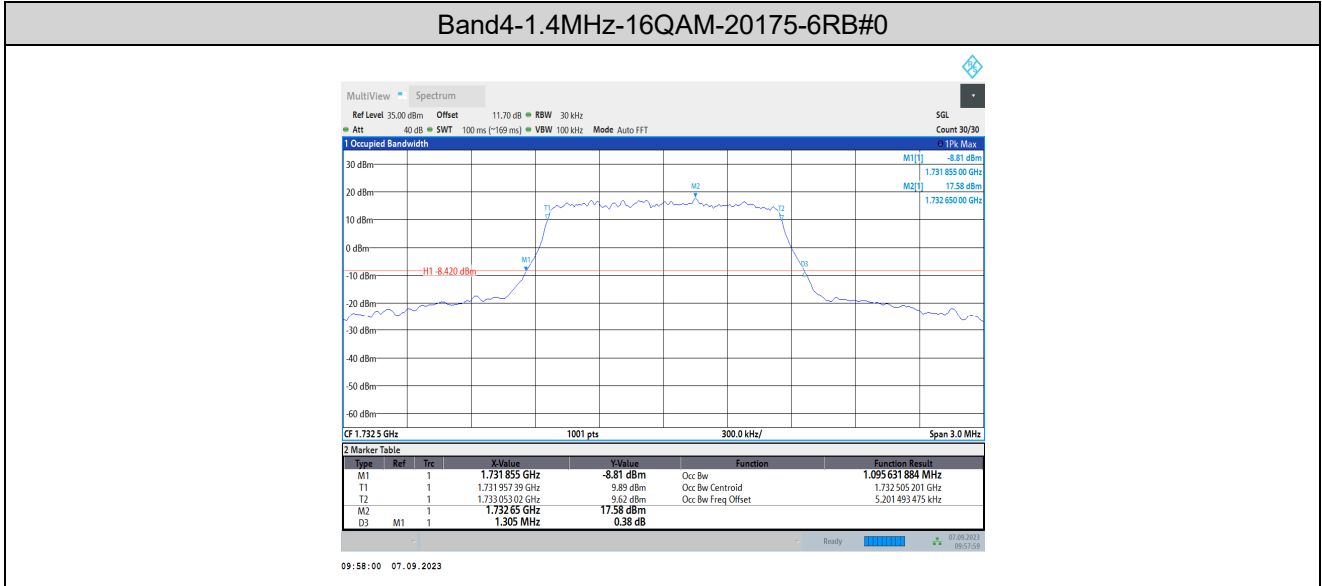
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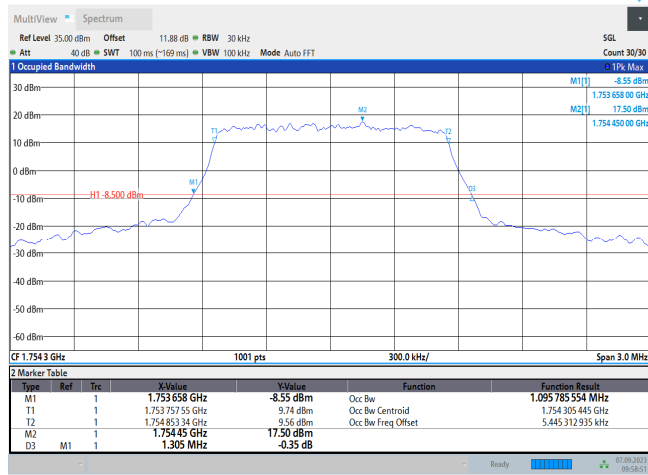


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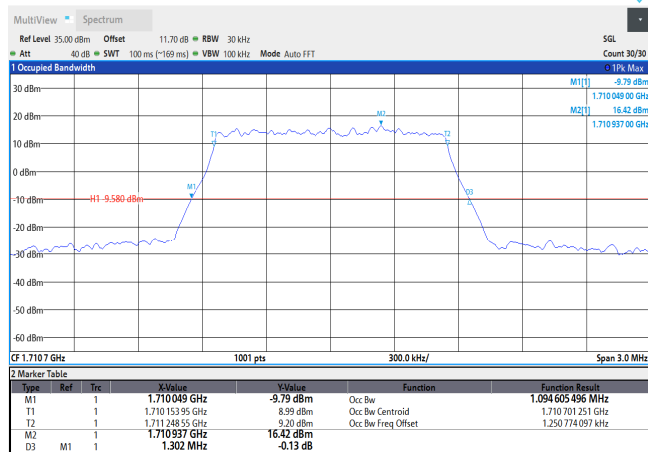
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Band4-1.4MHz-16QAM-20393-6RB#0



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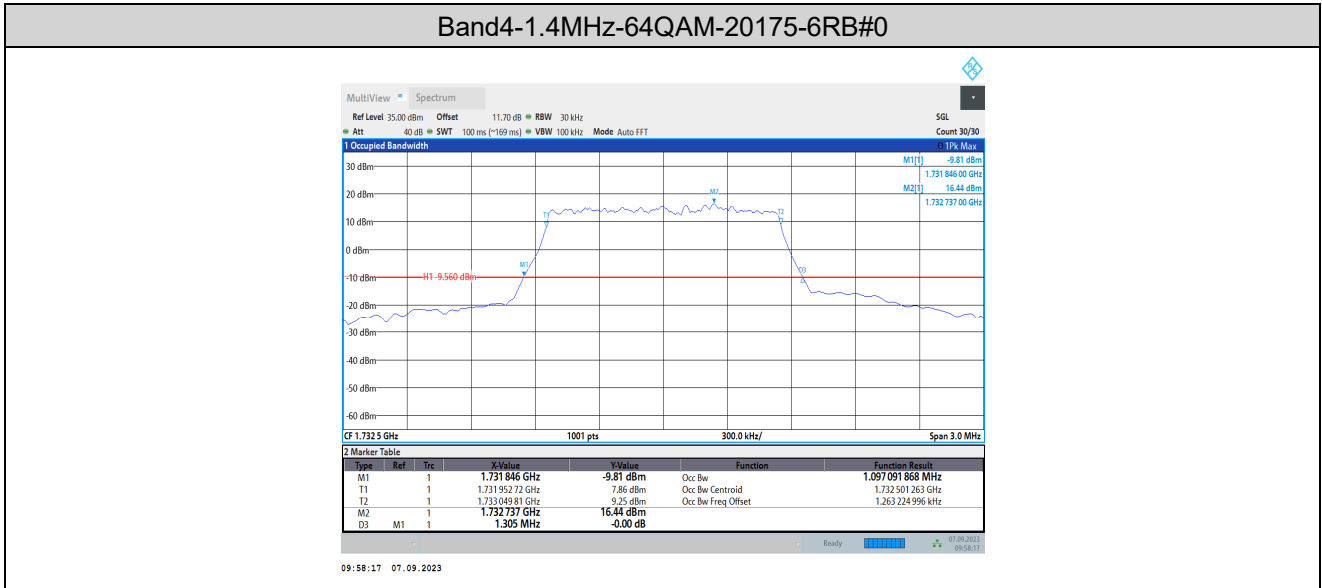
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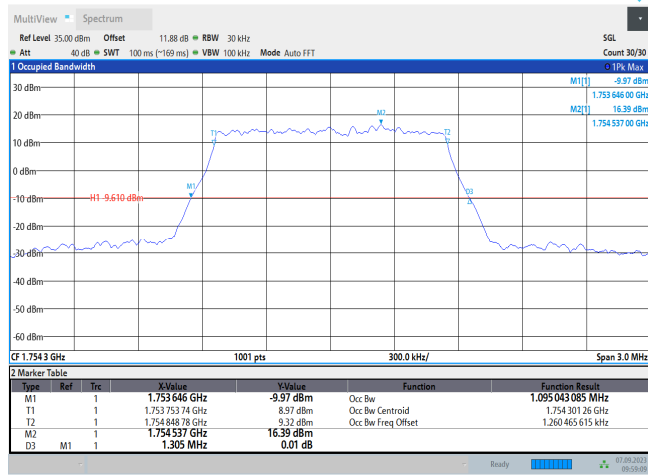


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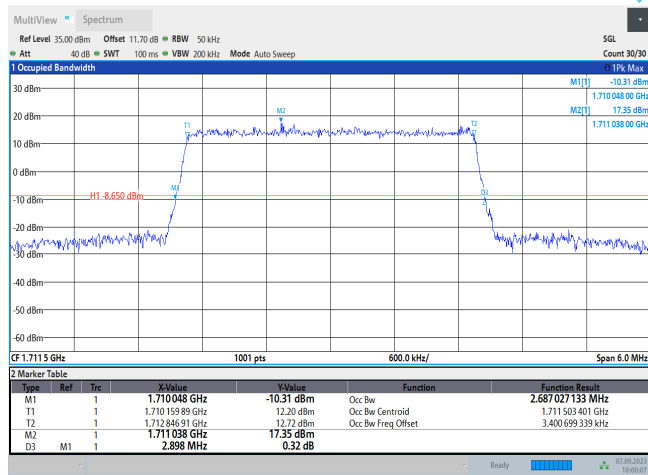
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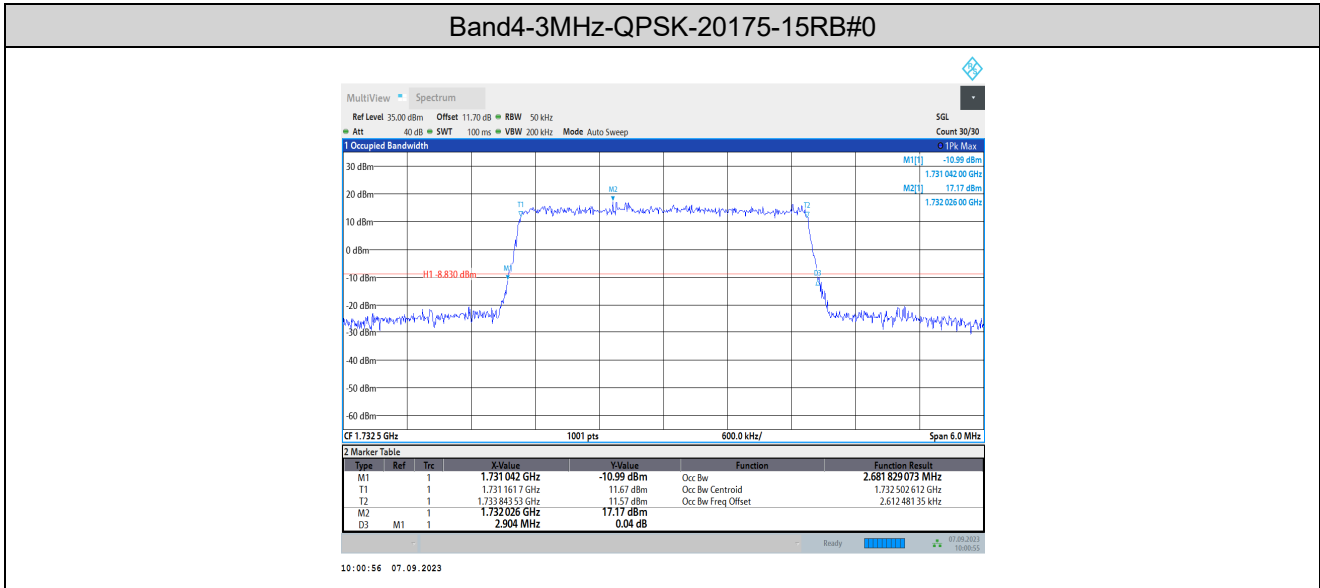
Band4-3MHz-QPSK-19965-15RB#0



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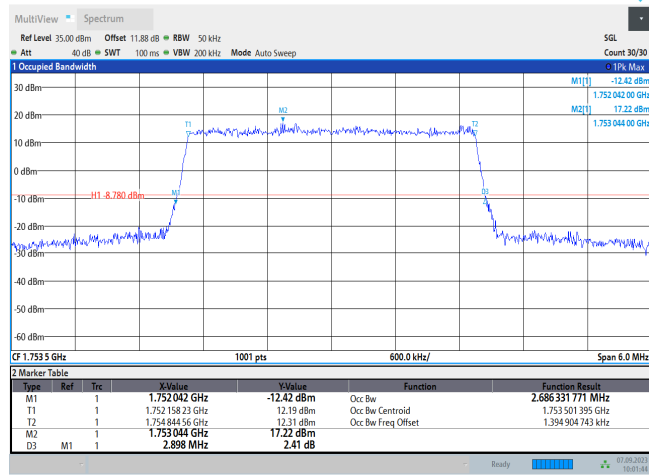


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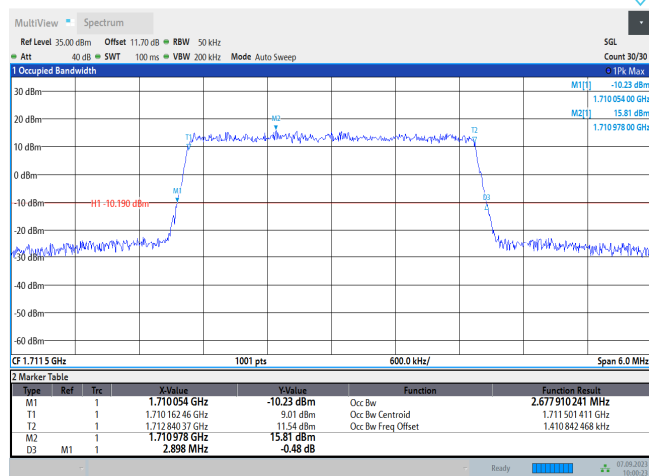
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Band4-3MHz-QPSK-20385-15RB#0



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Band4-3MHz-16QAM-19965-15RB#0



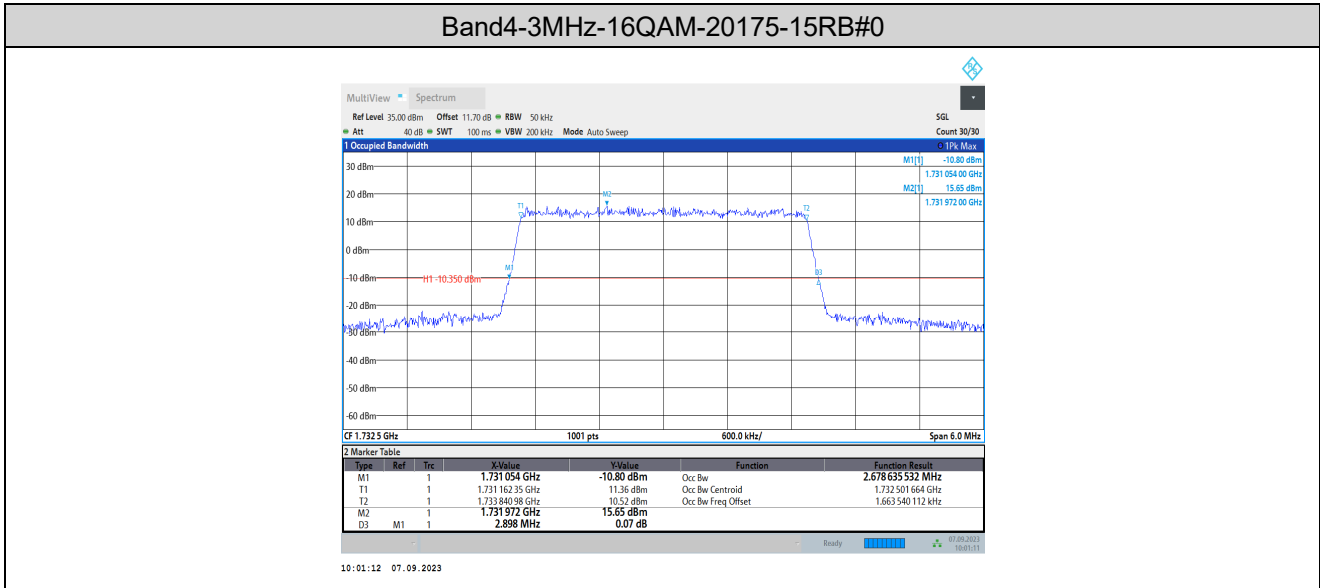
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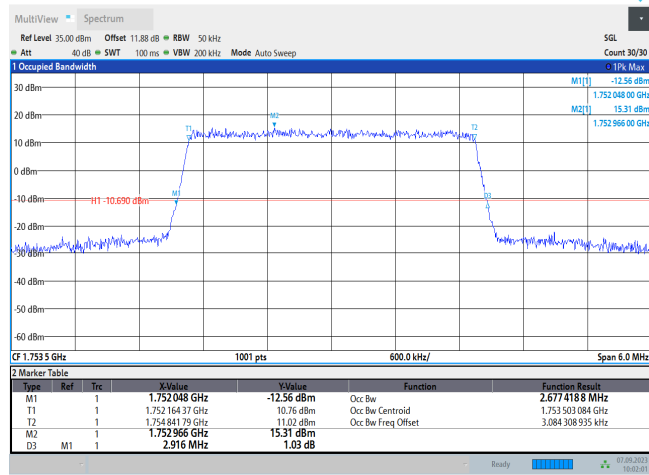


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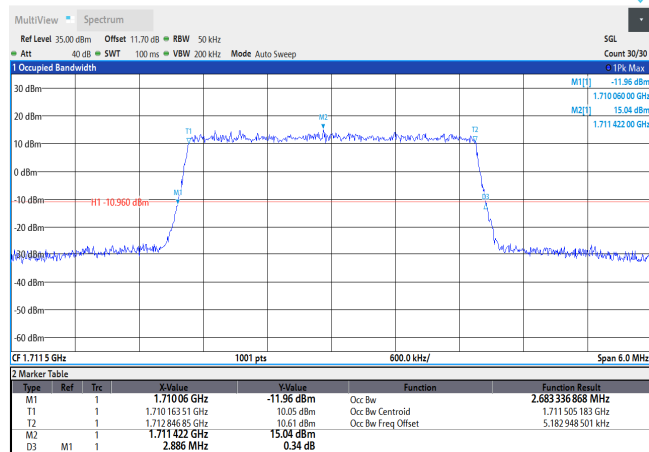
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Band4-3MHz-16QAM-20385-15RB#0



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Band4-3MHz-64QAM-19965-15RB#0



10:00:39 07.09.2023

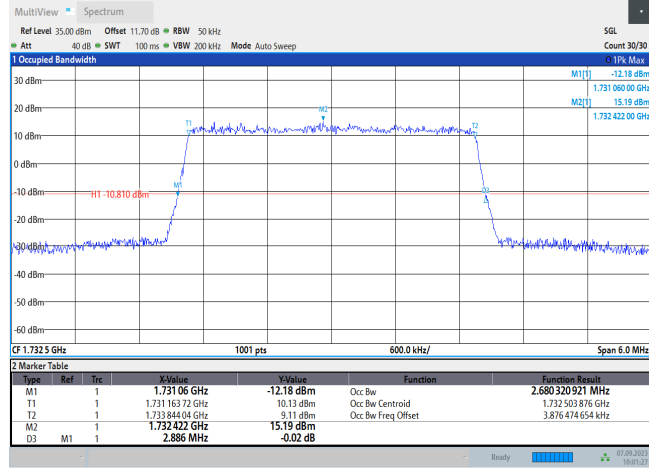


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Band4-3MHz-64QAM-20175-15RB#0



10:01:28 07.09.2023

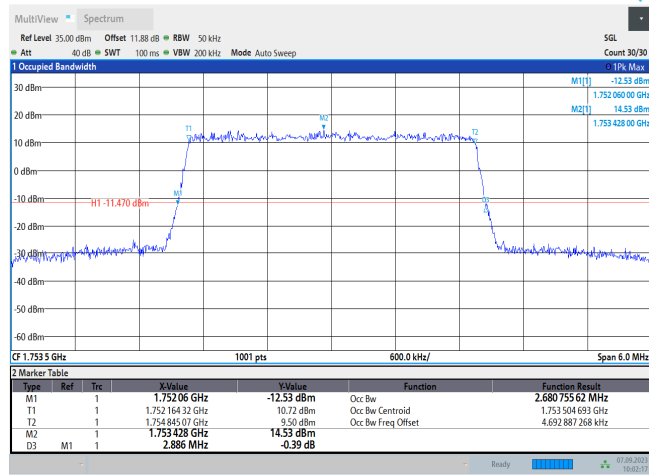


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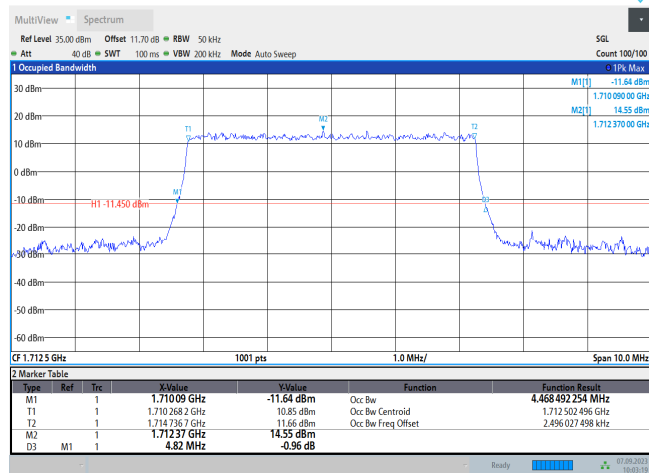
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Band4-3MHz-64QAM-20385-15RB#0



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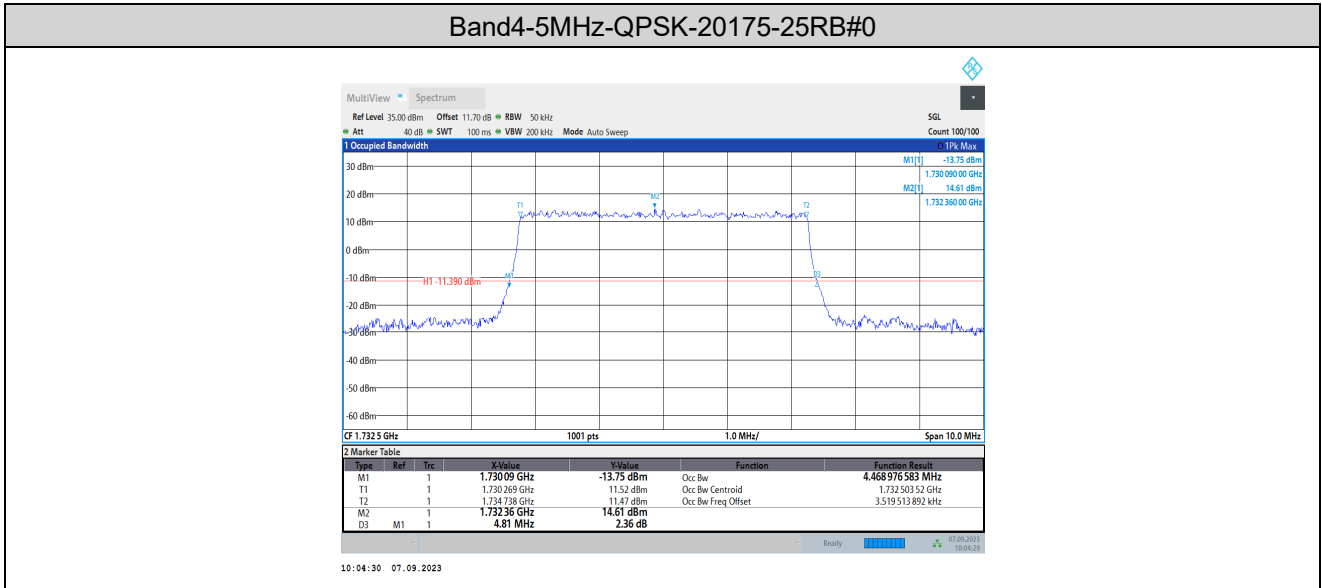
Band4-5MHz-QPSK-19975-25RB#0



10:03:20 07.09.2023



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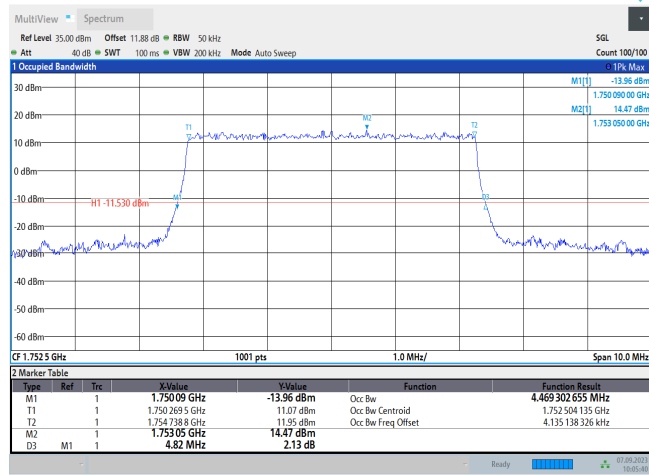


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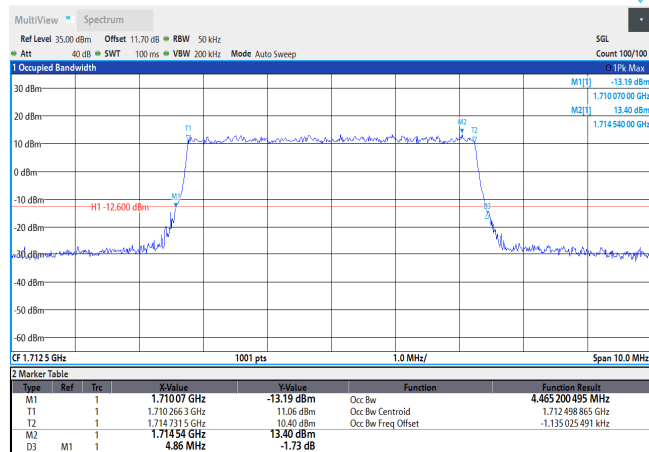
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Band4-5MHz-QPSK-20375-25RB#0



10:05:40 07.09.2023

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



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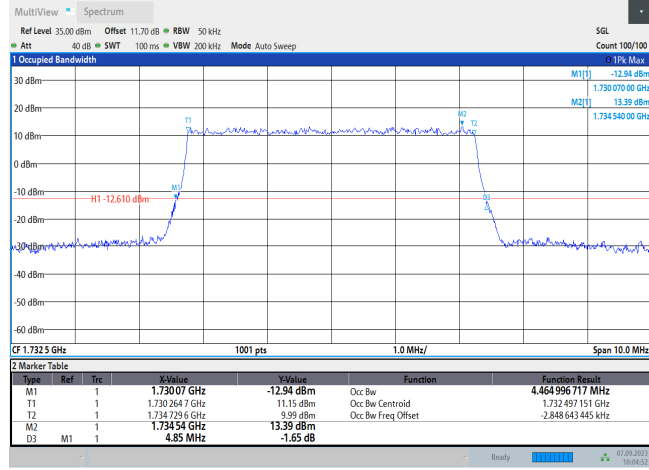


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Band4-5MHz-16QAM-20175-25RB#0



10:04:53 07.09.2023

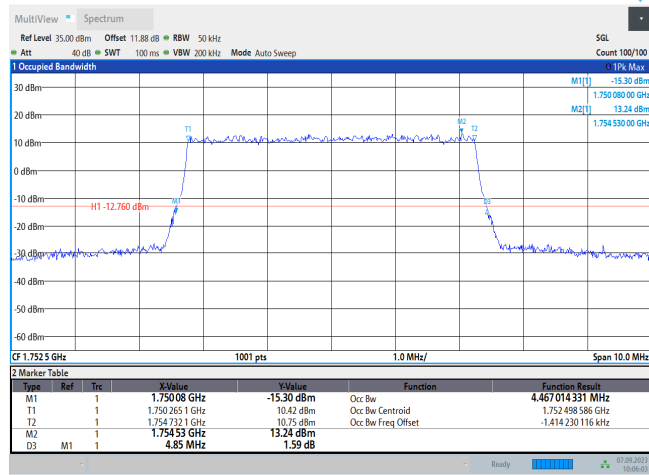


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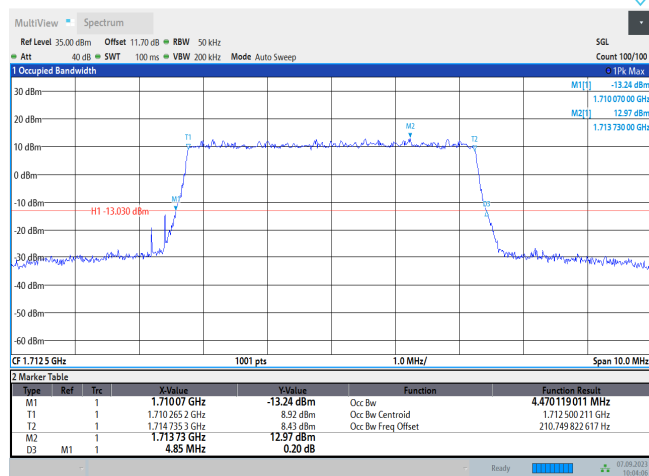
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Band4-5MHz-16QAM-20375-25RB#0



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Band4-5MHz-64QAM-19975-25RB#0

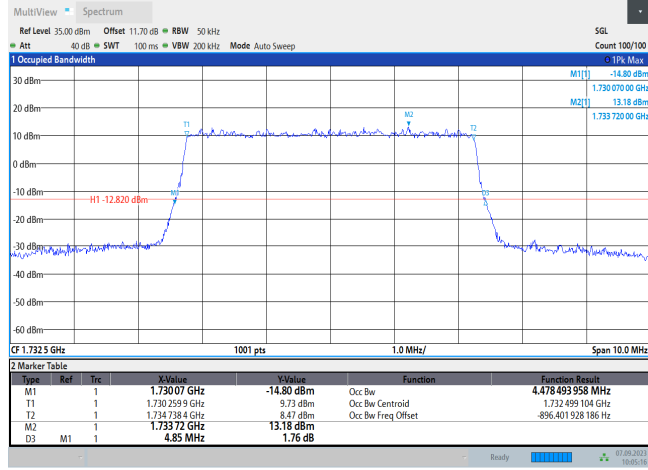


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Band4-5MHz-64QAM-20175-25RB#0



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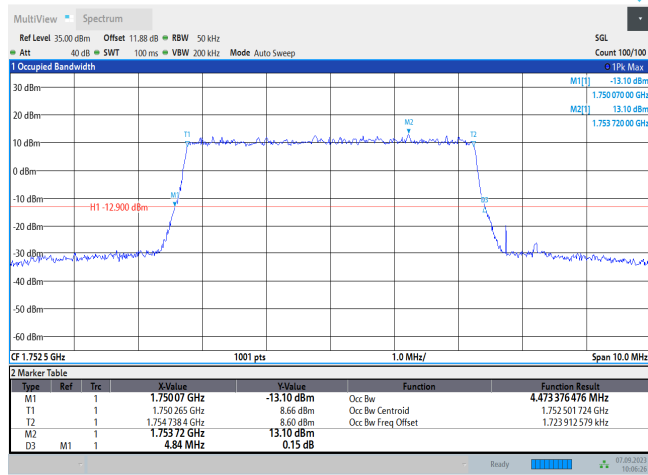


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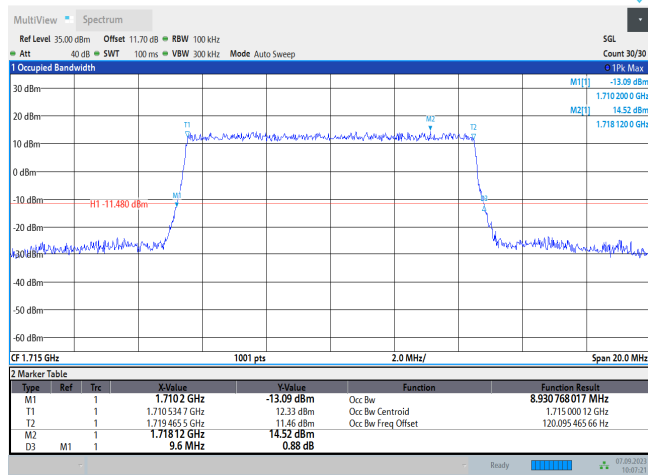
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Band4-5MHz-64QAM-20375-25RB#0



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



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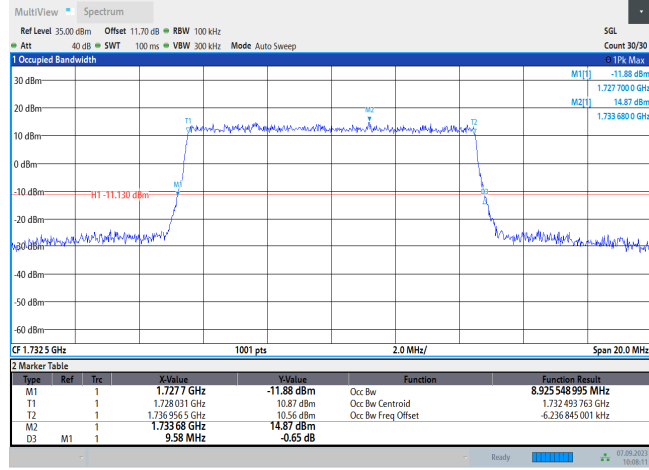


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Band4-10MHz-QPSK-20175-50RB#0

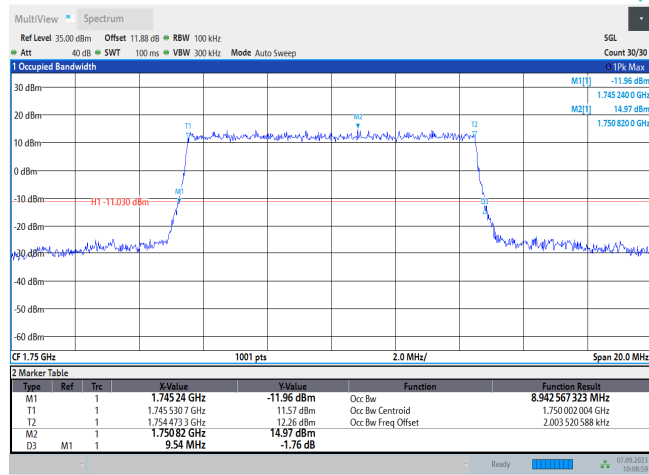


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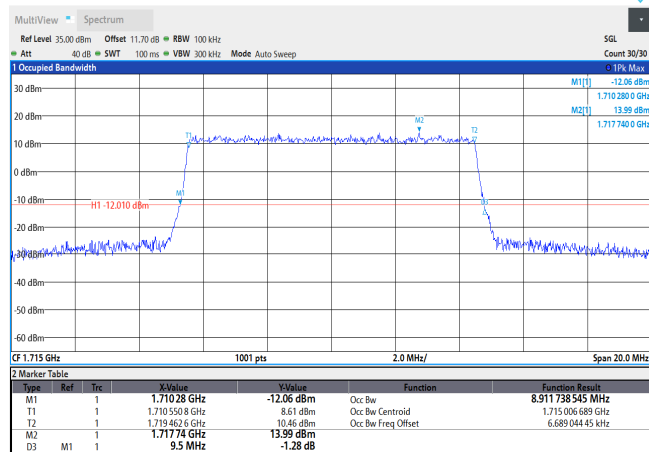
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Band4-10MHz-QPSK-20350-50RB#0



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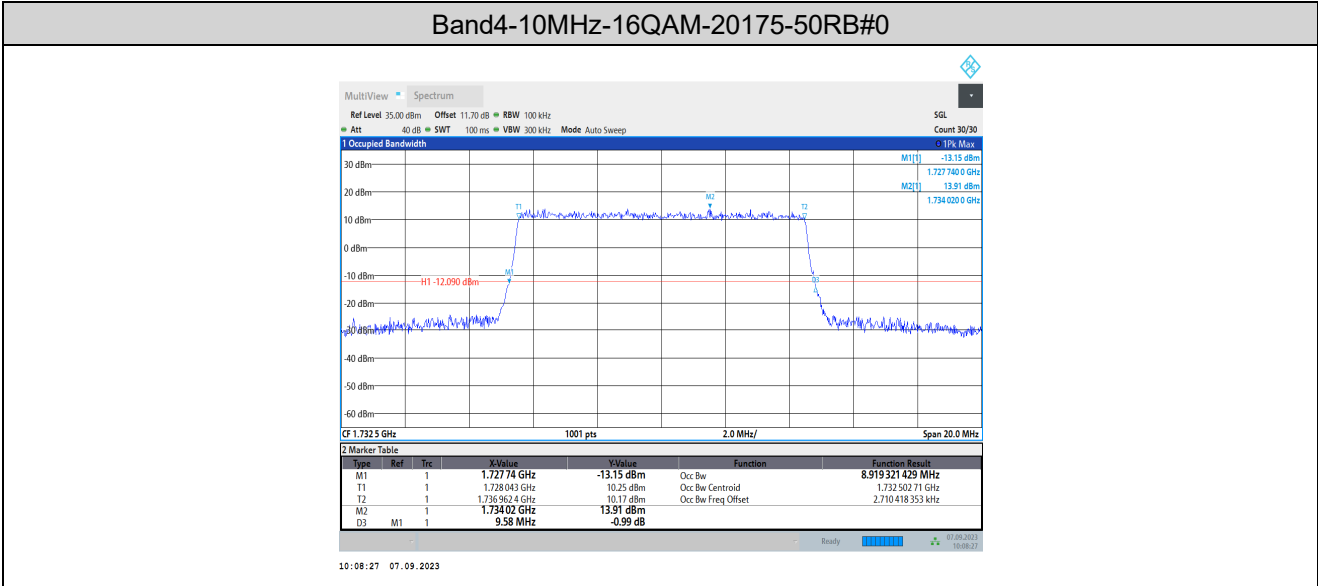
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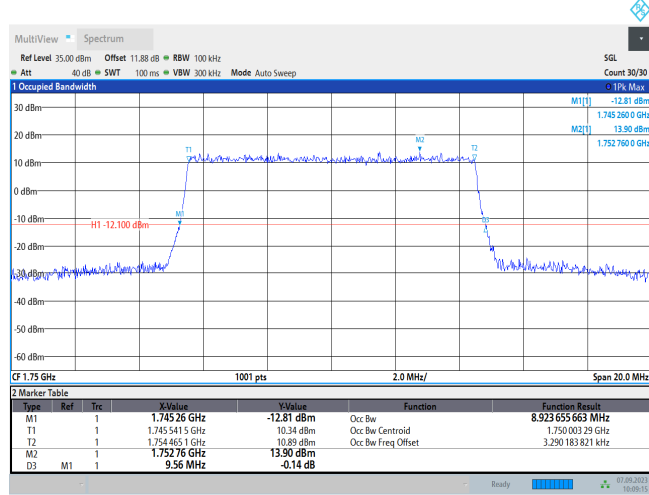


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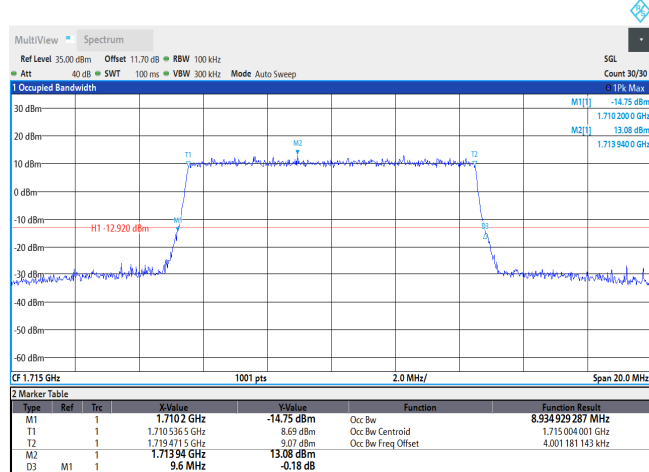
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Band4-10MHz-64QAM-20000-50RB#0



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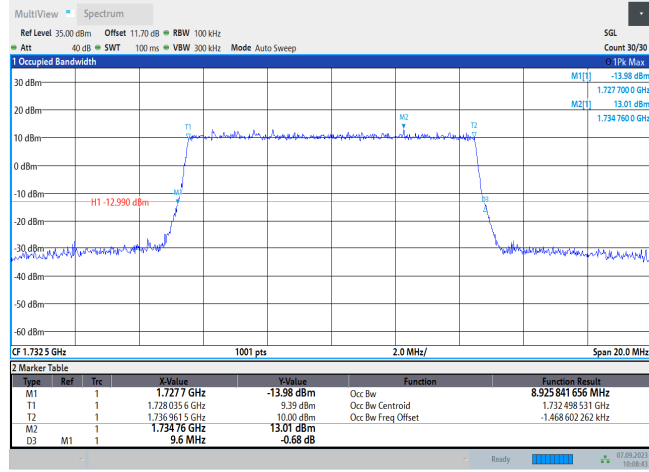


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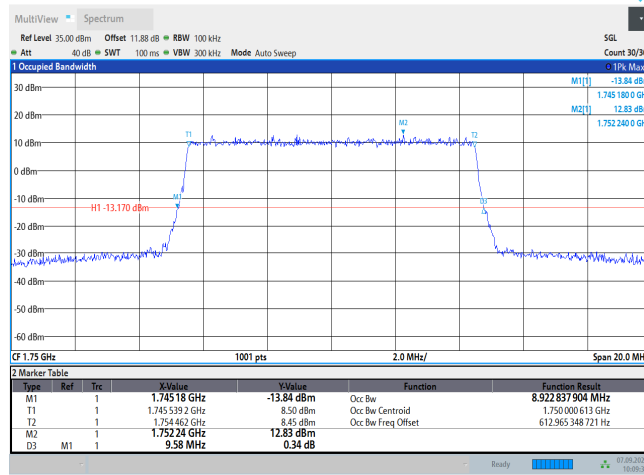


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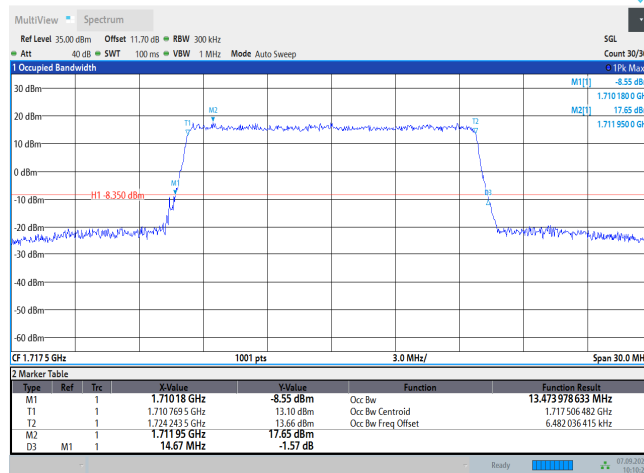
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Band4-10MHz-64QAM-20350-50RB#0



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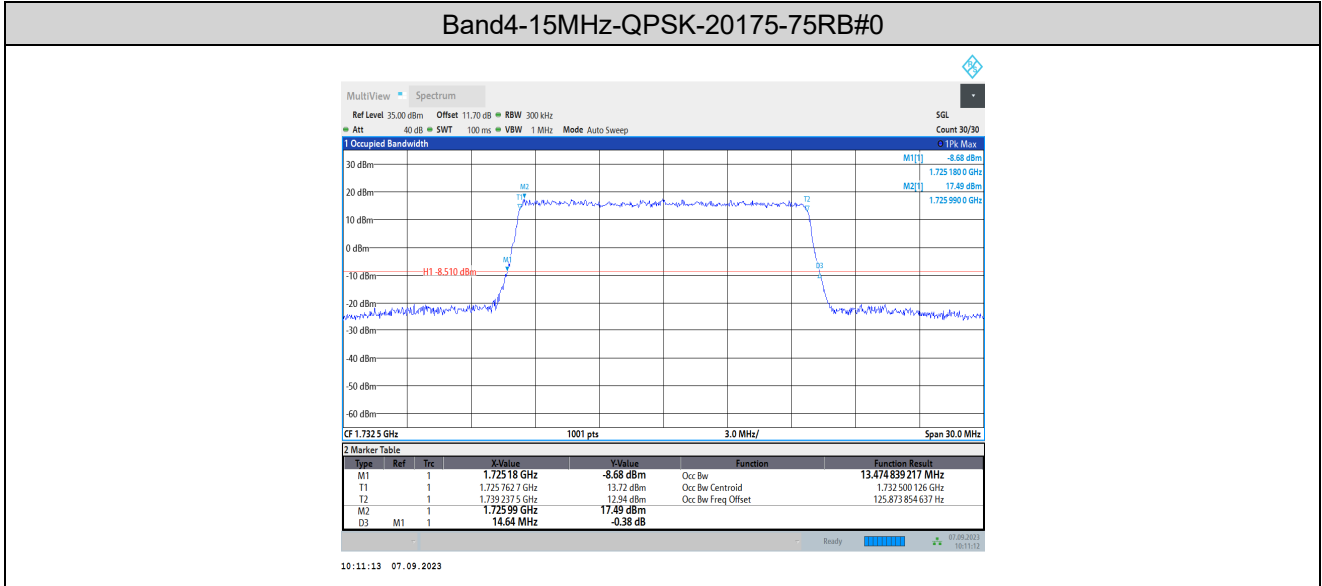
Band4-15MHz-QPSK-20025-75RB#0



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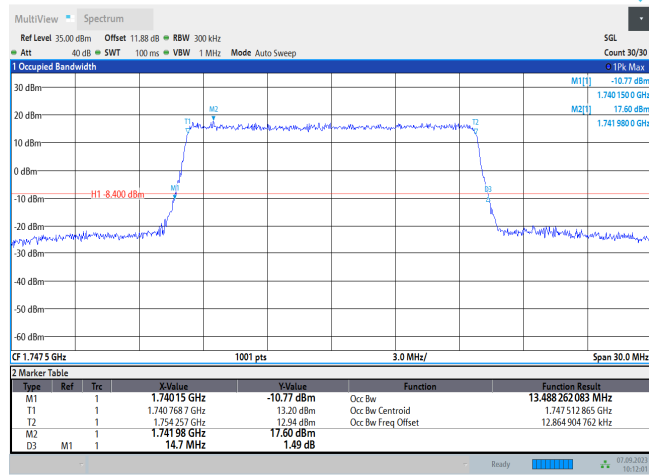


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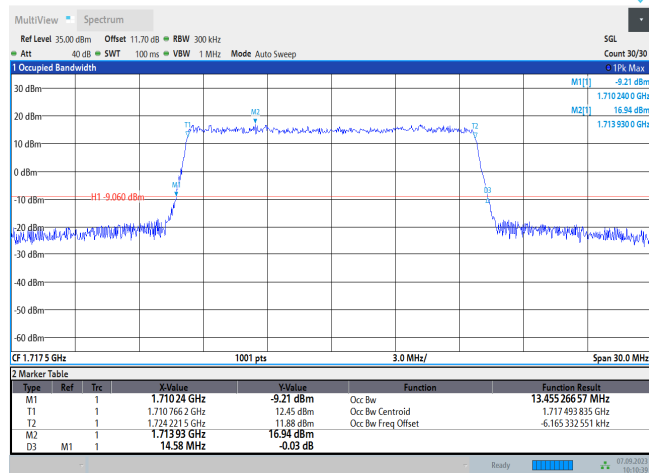
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Band4-15MHz-QPSK-20325-75RB#0



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Band4-15MHz-16QAM-20025-75RB#0



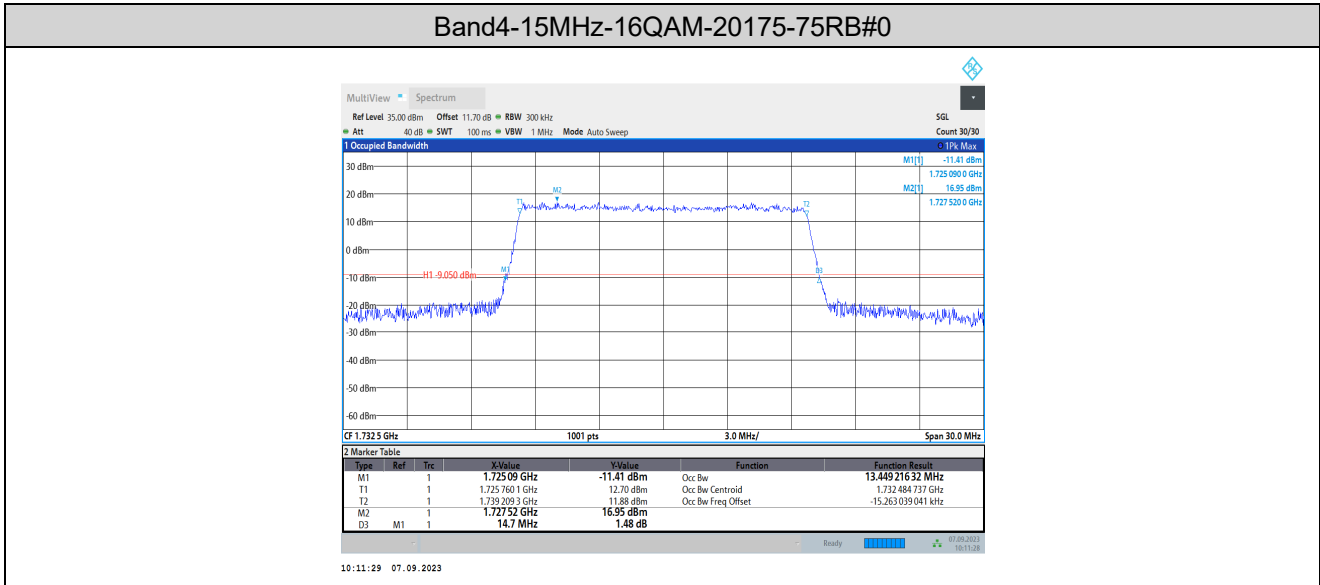
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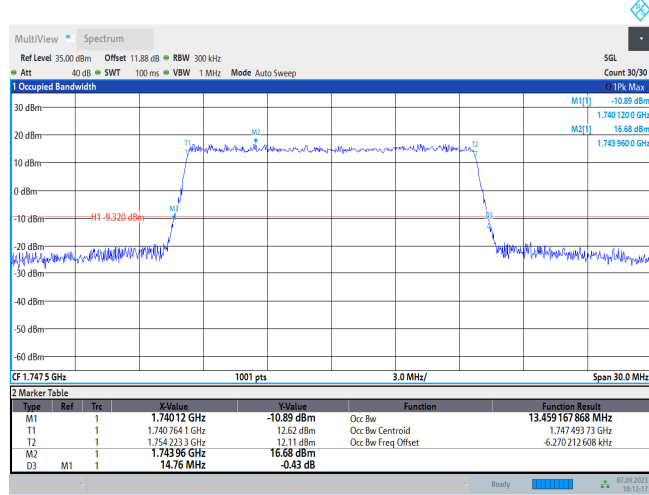


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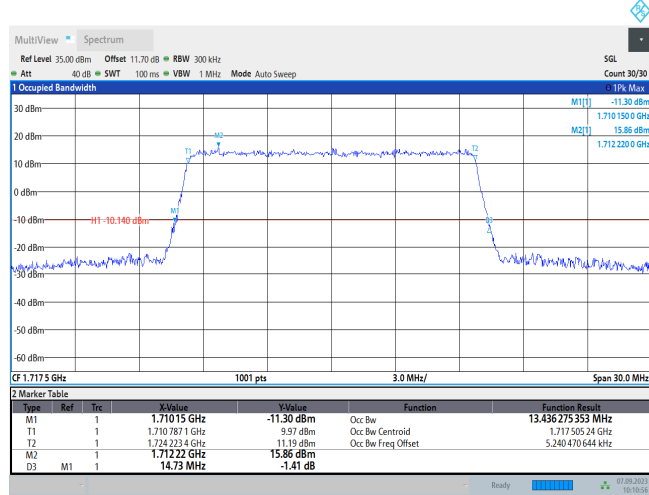
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Band4-15MHz-16QAM-20325-75RB#0



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Band4-15MHz-64QAM-20025-75RB#0



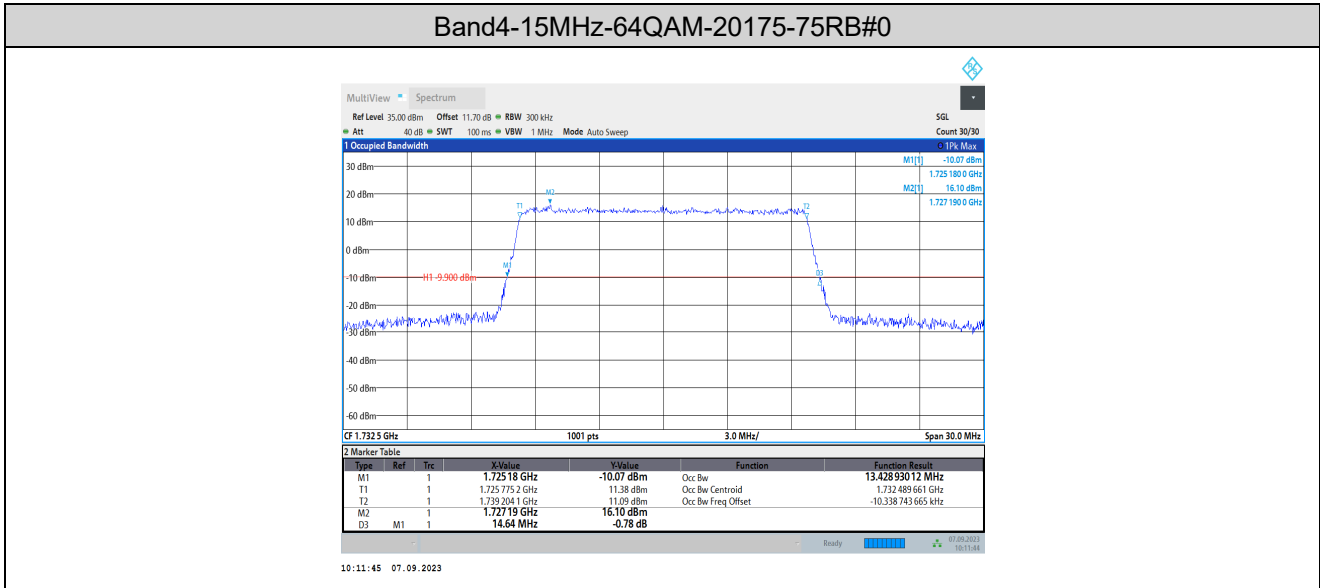
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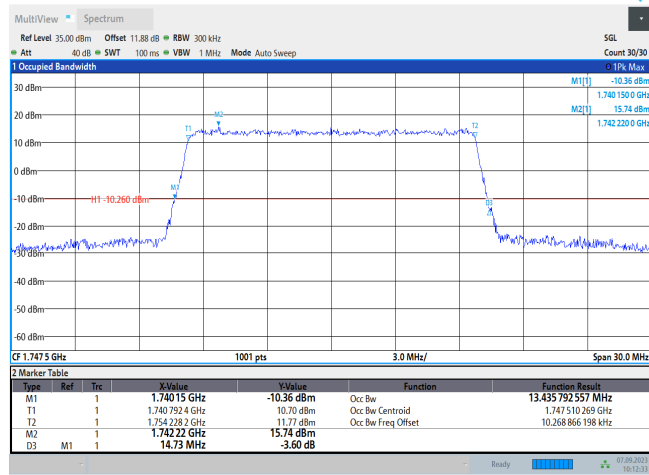


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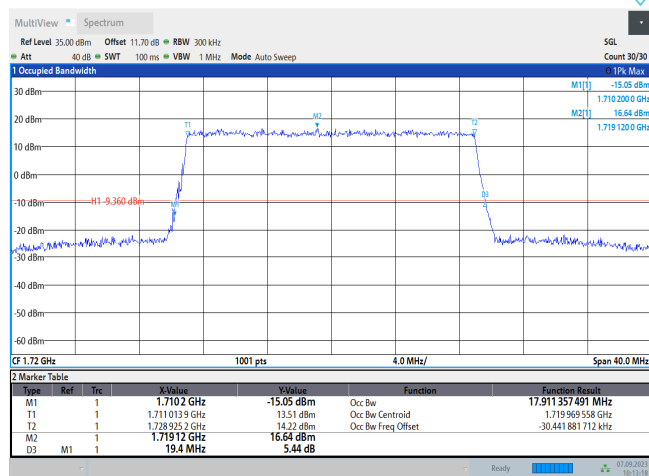
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Band4-15MHz-64QAM-20325-75RB#0



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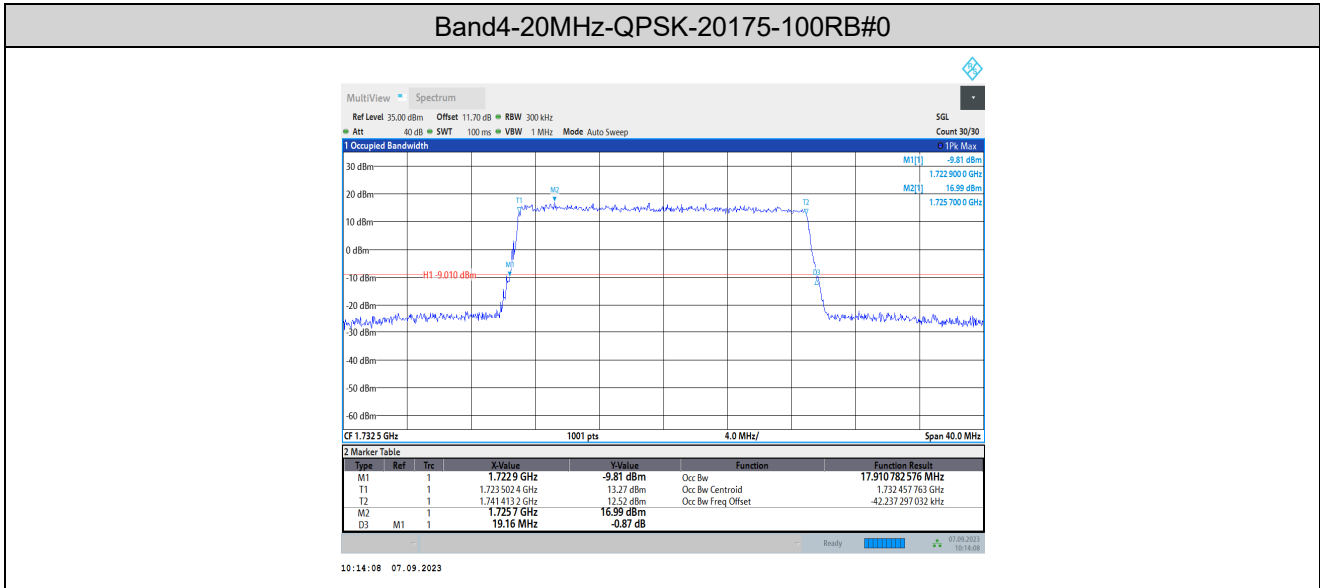
Band4-20MHz-QPSK-20050-100RB#0



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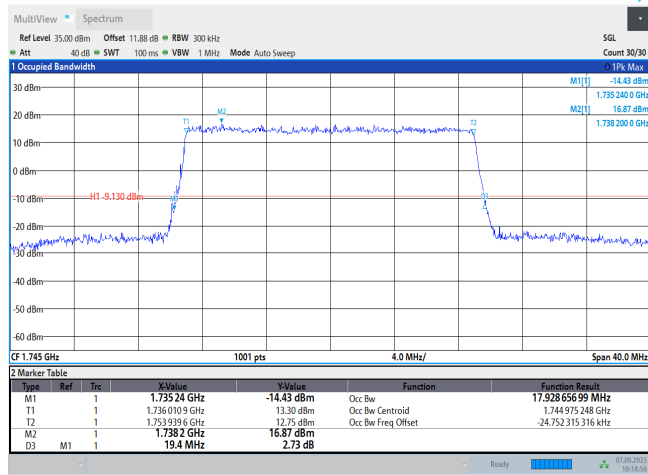


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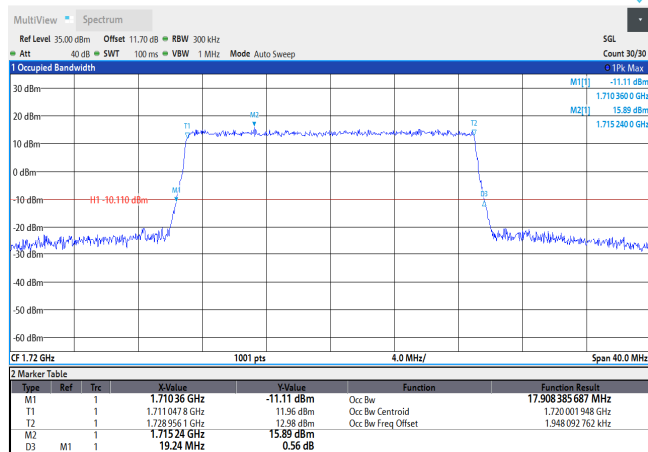
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Band4-20MHz-QPSK-20300-100RB#0



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



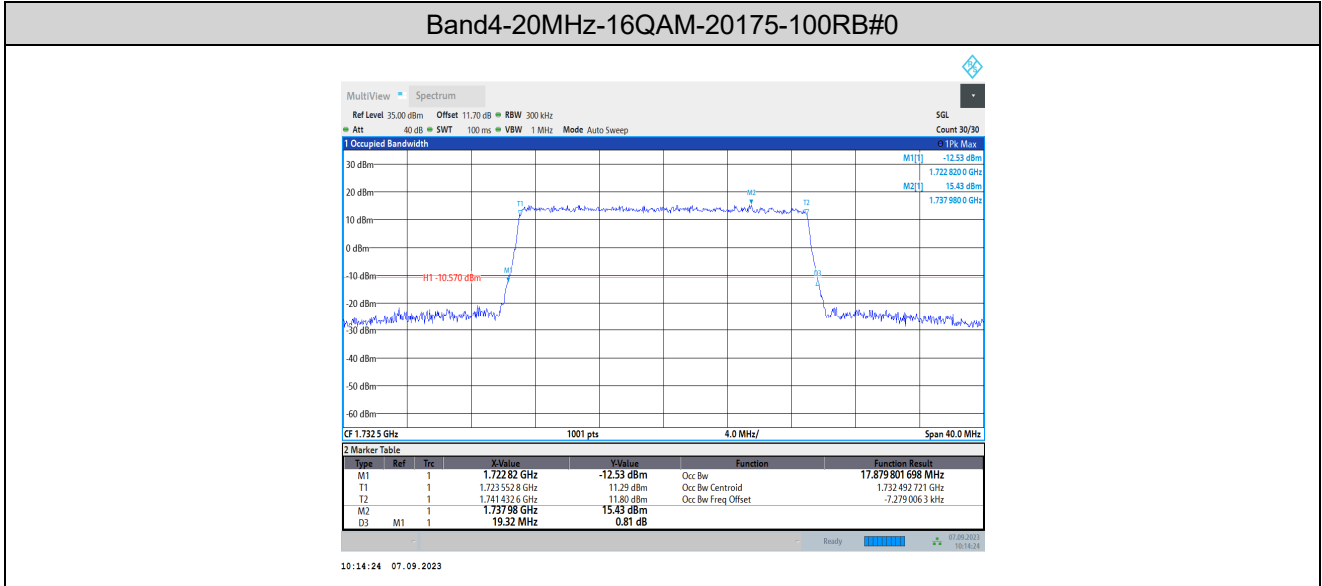
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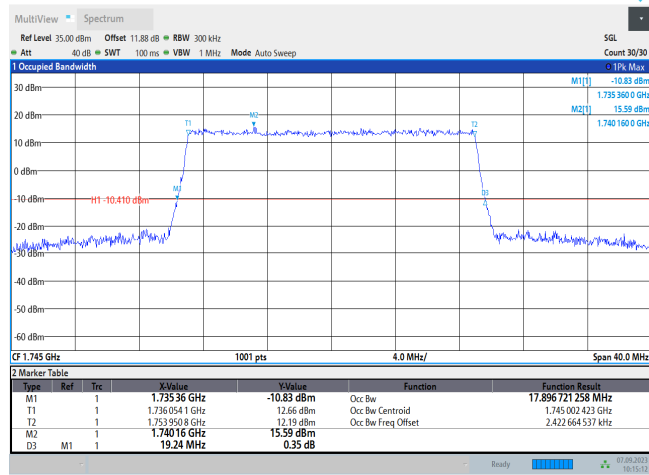


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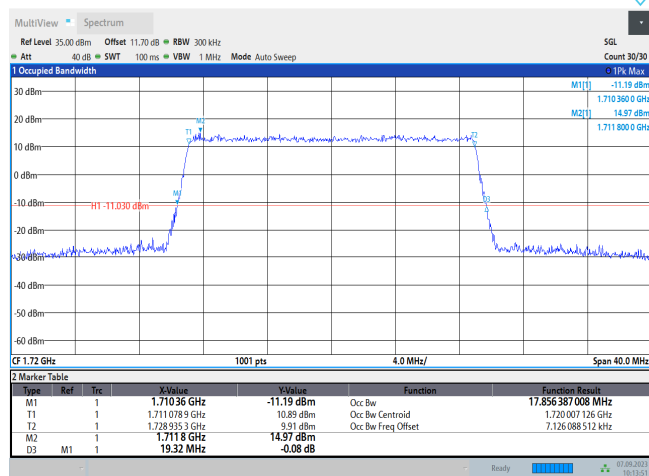
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10:15:13 07.09.2023

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



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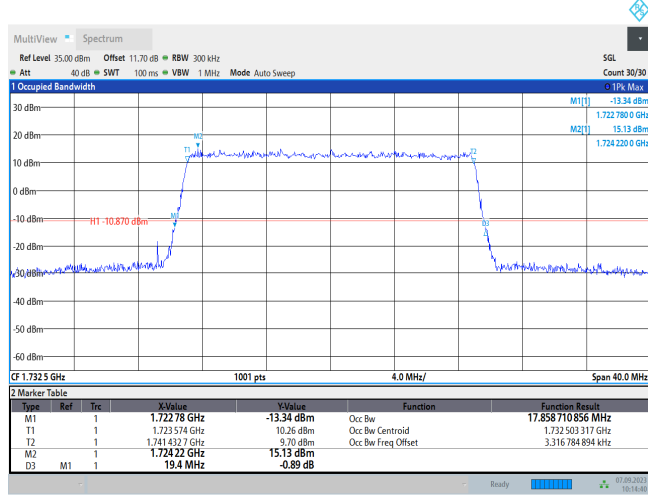


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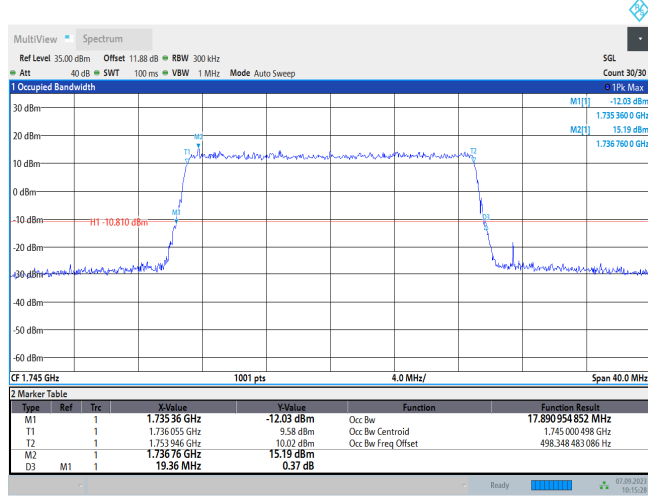
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Band4-20MHz-64QAM-20175-100RB#0



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



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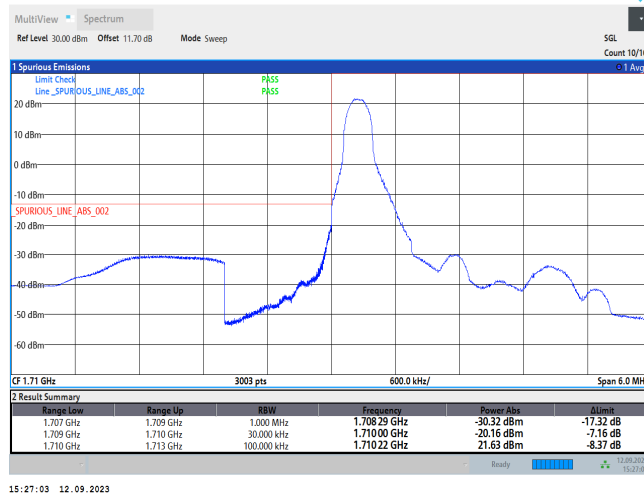
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Band Edge

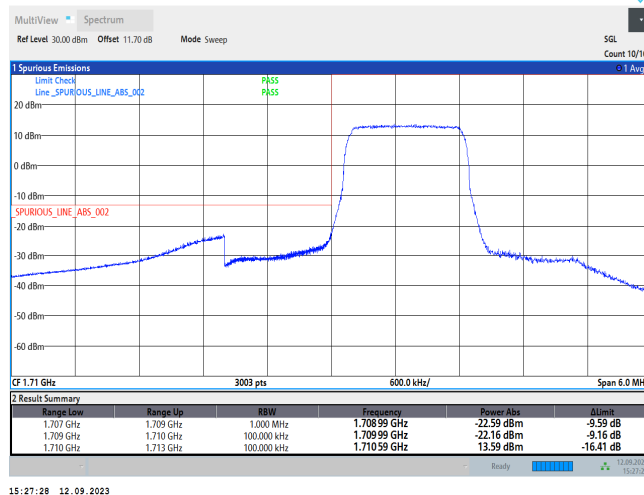
Test Graphs

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



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



15:27:28 12.09.2023

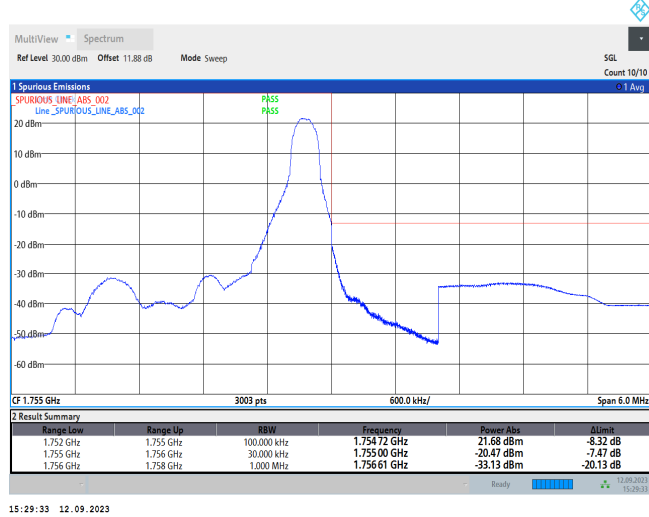


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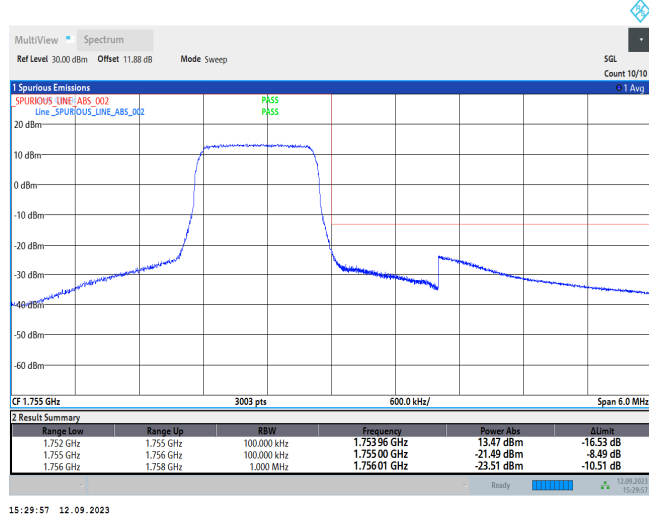
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Band4-1.4MHz-QPSK-20393-1RB#5



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

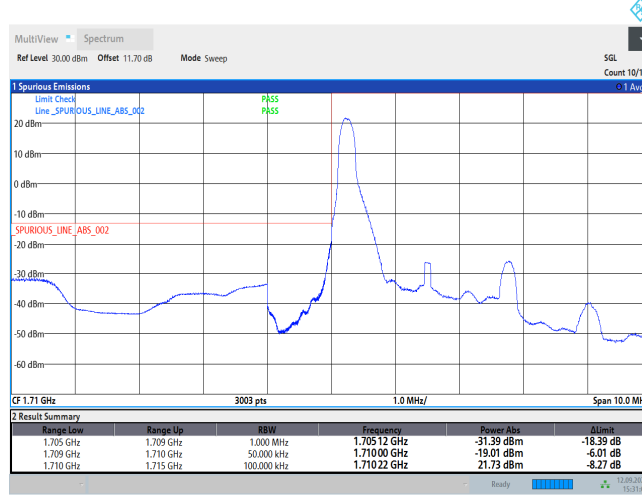


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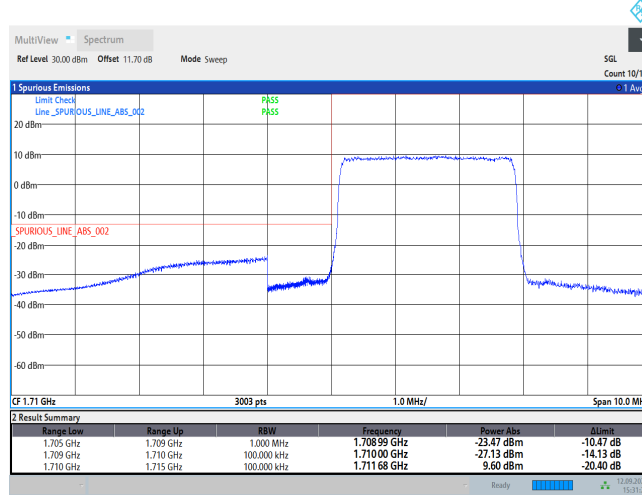
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Band4-3MHz-QPSK-19965-1RB#0



15:31:01 12.09.2023

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



15:31:26 12.09.2023

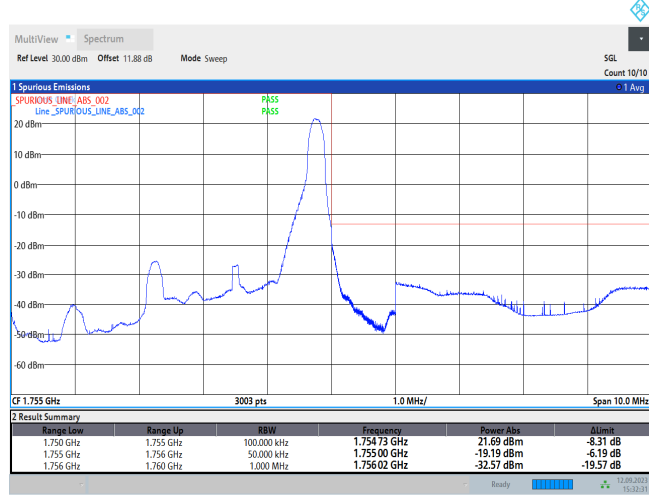


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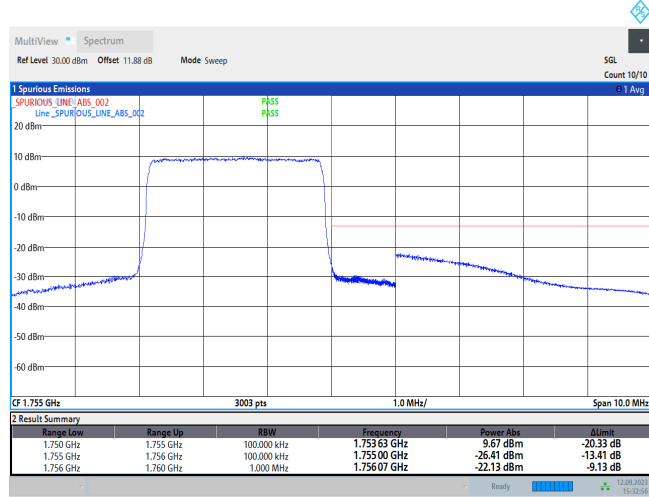
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Band4-3MHz-QPSK-20385-1RB#14



15:32:32 12.09.2023

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



15:32:57 12.09.2023

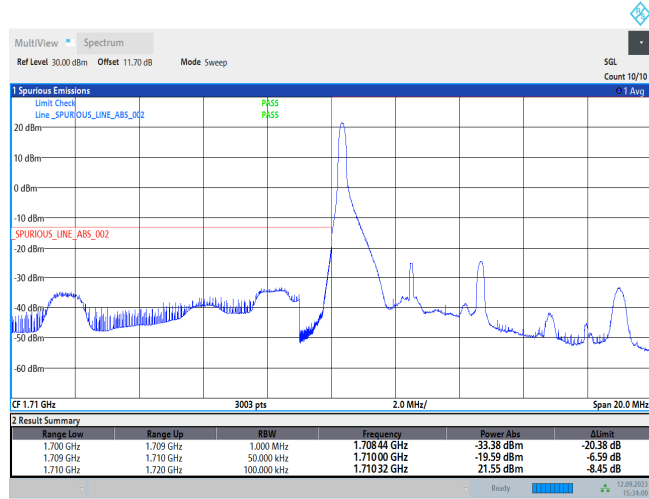


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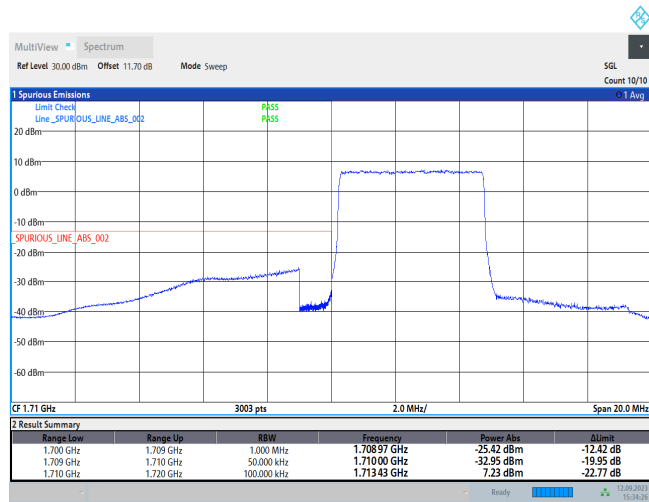
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Band4-5MHz-QPSK-19975-1RB#0



15:34:01 12.09.2023

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



15:34:27 12.09.2023

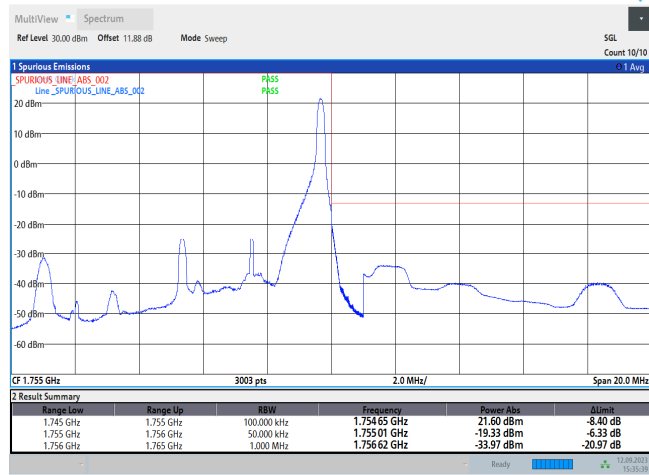


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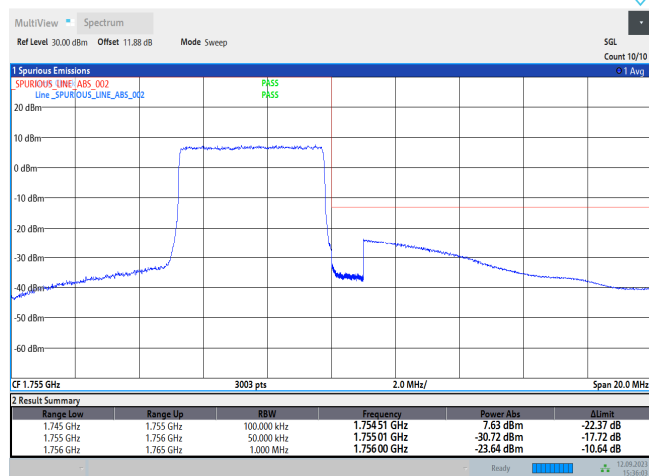
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Band4-5MHz-QPSK-20375-1RB#24



15:35:39 12.09.2023

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



15:36:04 12.09.2023

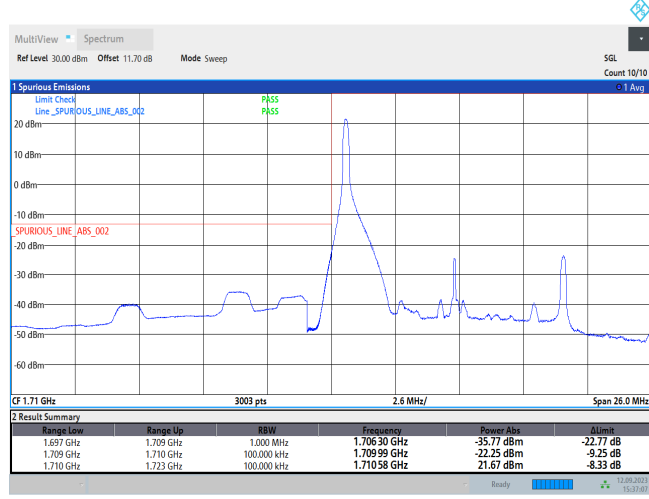


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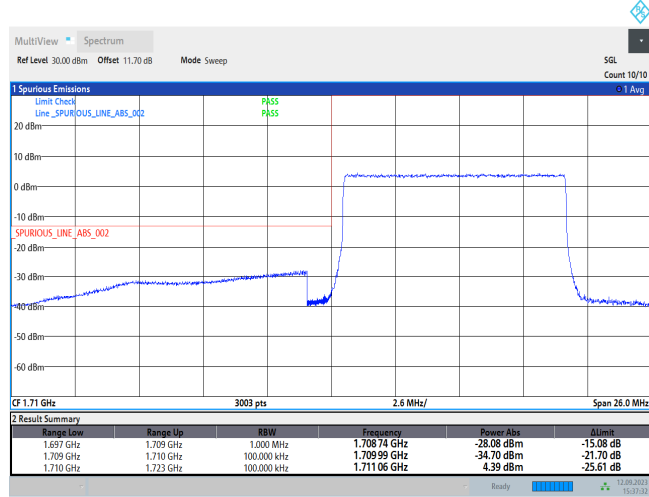
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Band4-10MHz-QPSK-20000-1RB#0



15:37:08 12.09.2023

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



15:37:32 12.09.2023

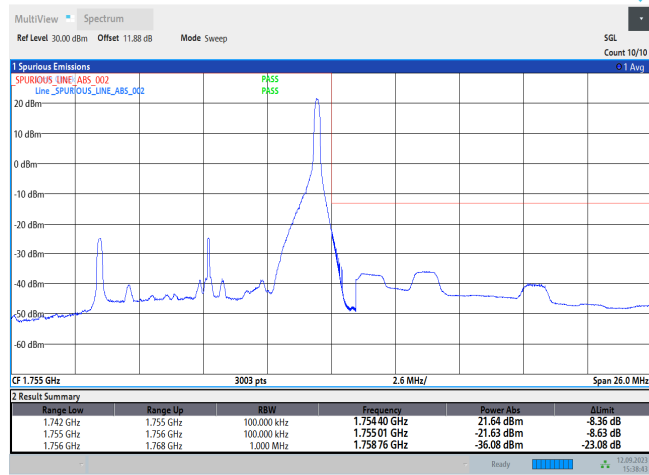


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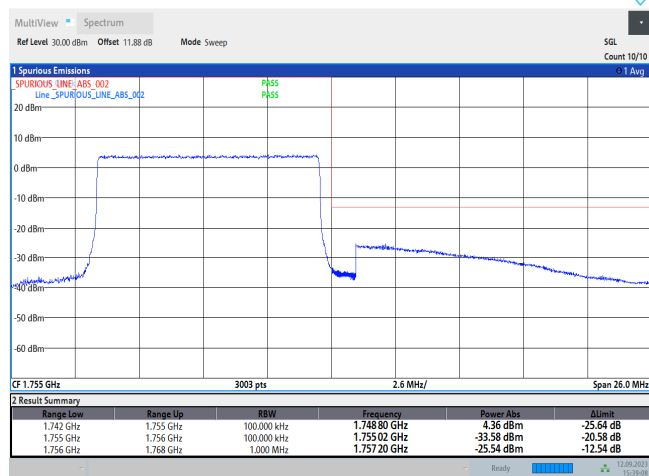
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Band4-10MHz-QPSK-20350-1RB#49



15:38:44 12.09.2023

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



15:39:09 12.09.2023

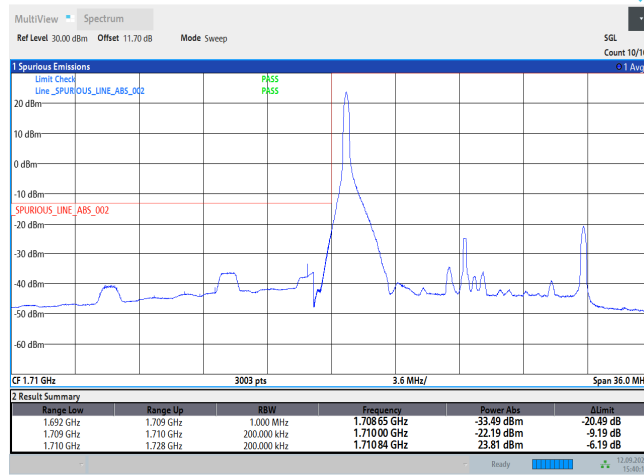


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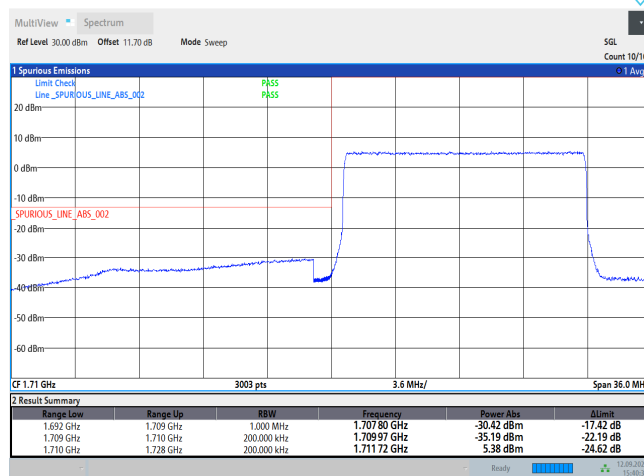
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Band4-15MHz-QPSK-20025-1RB#0



15:40:13 12.09.2023

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



15:40:38 12.09.2023

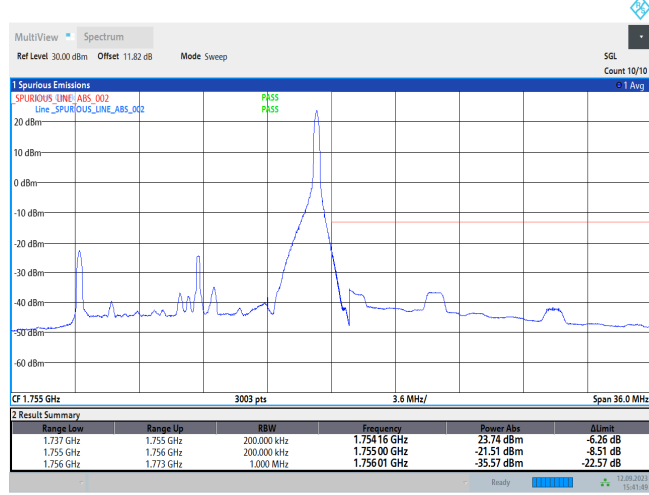


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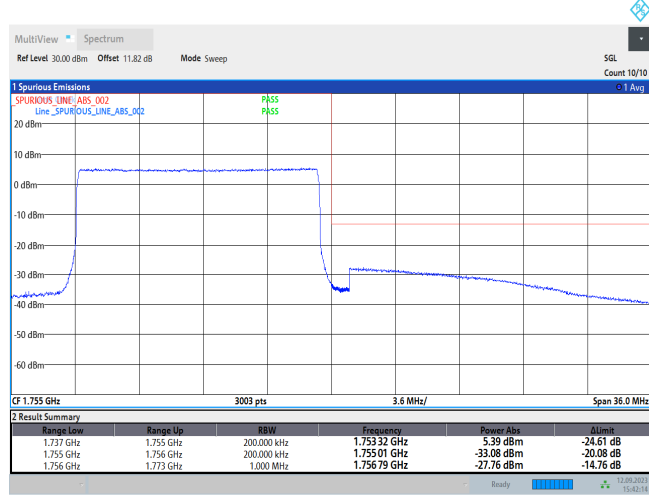
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Band4-15MHz-QPSK-20325-1RB#74



15:41:50 12.09.2023

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



15:42:15 12.09.2023

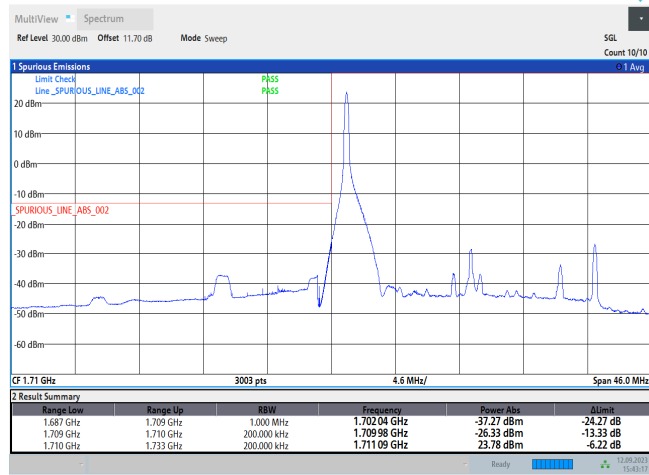


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Band4-20MHz-QPSK-20050-1RB#0



15:43:17 12.09.2023

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



15:43:42 12.09.2023

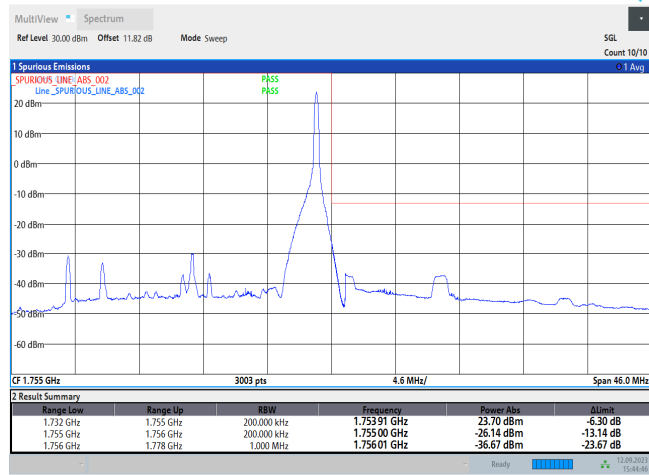


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Band4-20MHz-QPSK-20300-1RB#99



15:44:46 12.09.2023

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



15:45:11 12.09.2023



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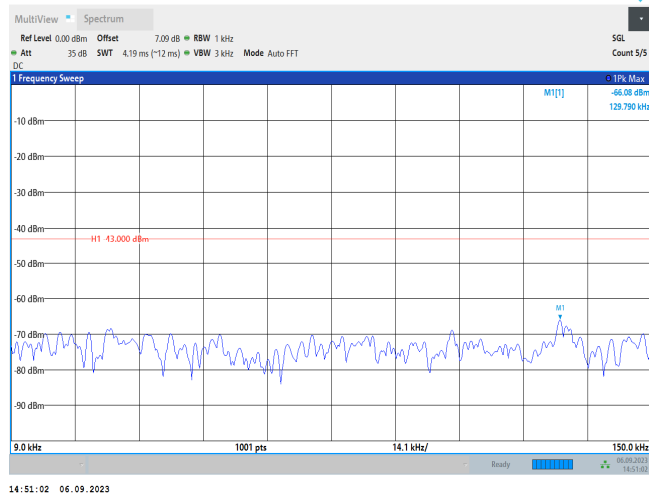
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Conducted Spurious Emission

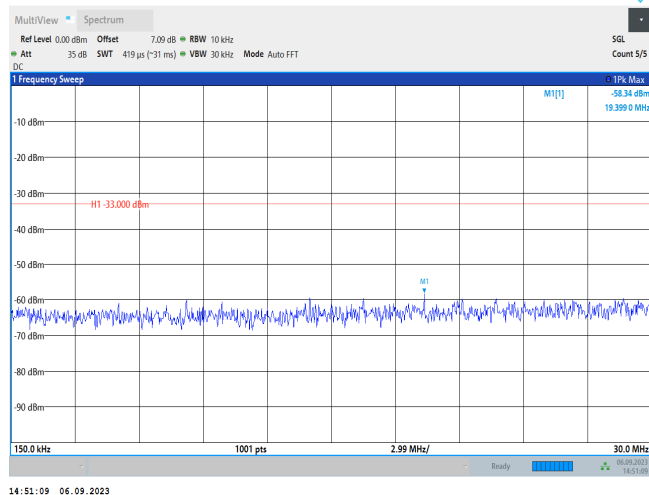
Test Graphs

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



14:51:02 06.09.2023

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



14:51:09 06.09.2023

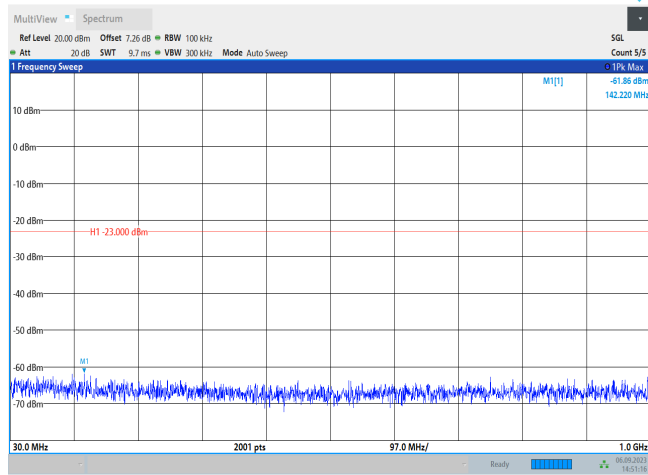


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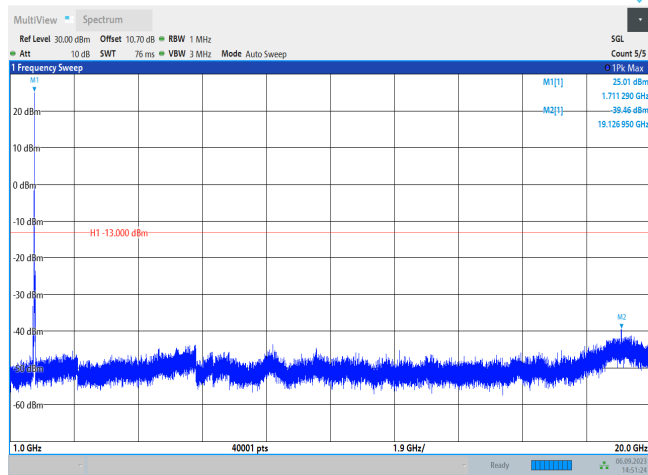
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



14:51:16 06.09.2023

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



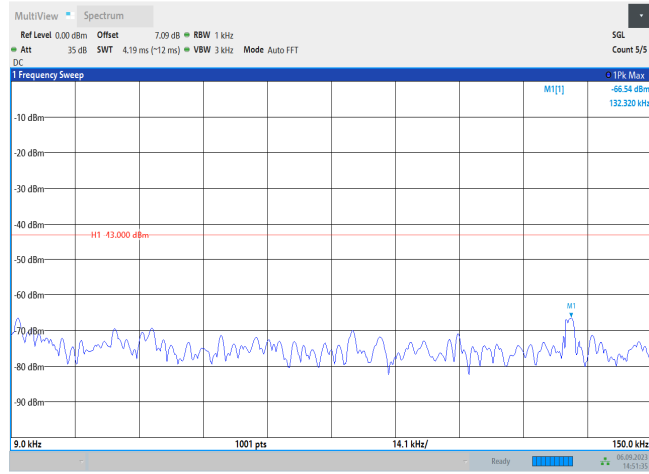
14:51:24 06.09.2023



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



14:51:35 06.09.2023

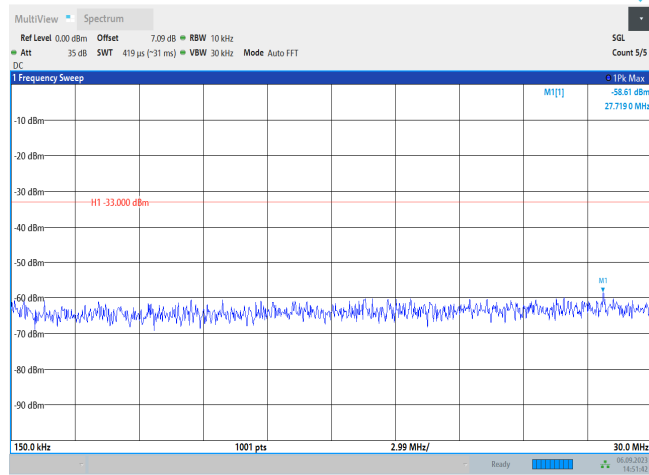


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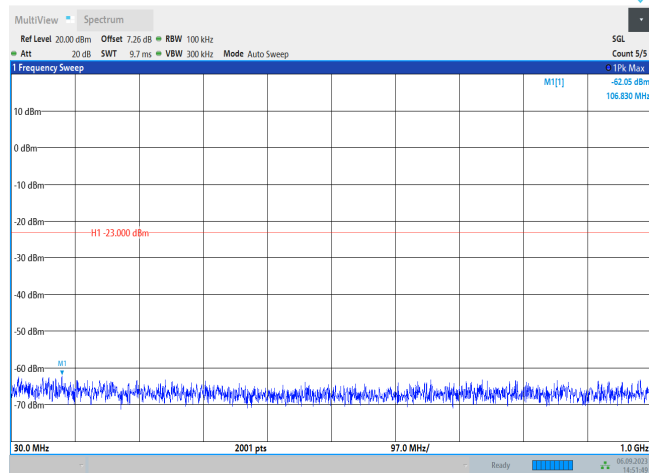
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Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



14:51:42 06.09.2023

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



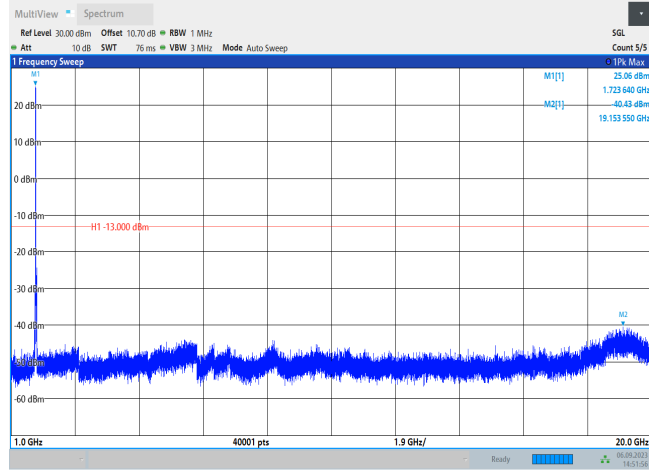
14:51:49 06.09.2023



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



14:51:57 06.09.2023

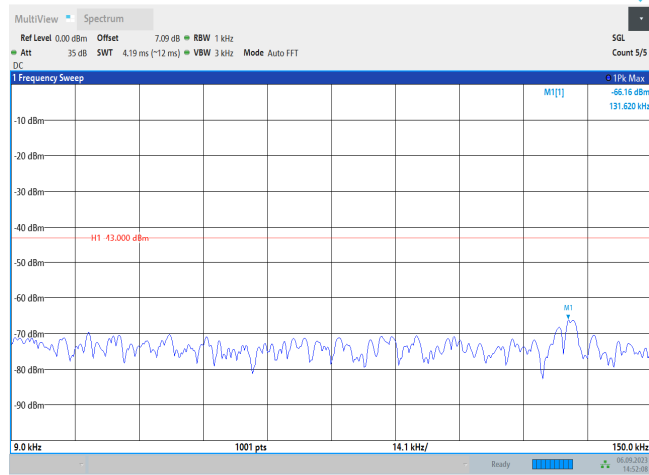


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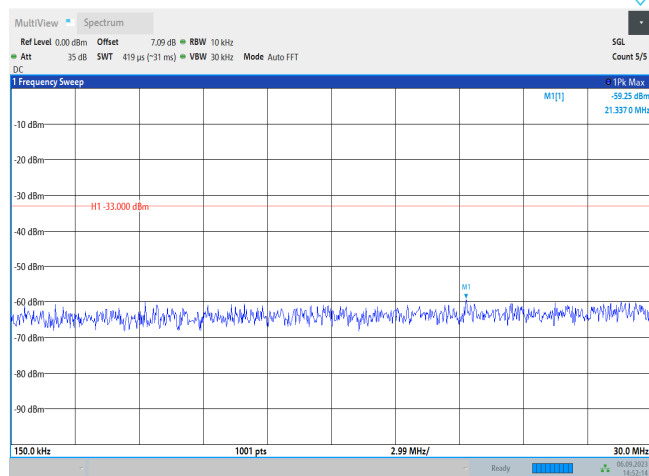
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



14:52:08 06.09.2023

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



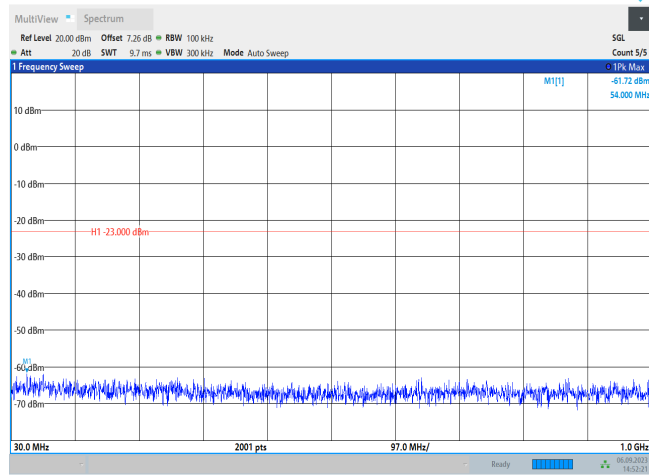
14:52:15 06.09.2023



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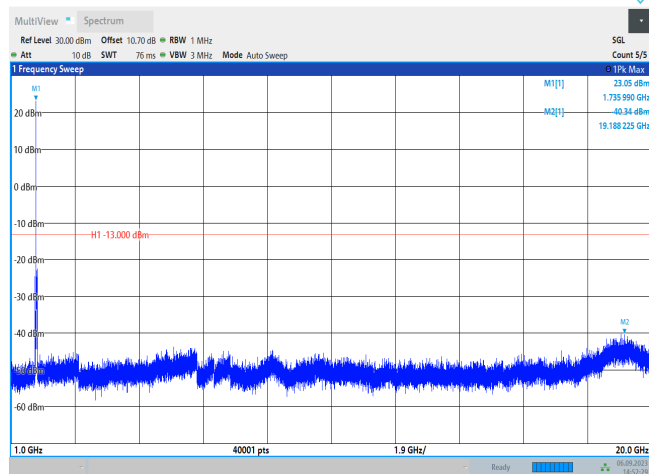
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



14:52:22 06.09.2023

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



14:52:30 06.09.2023



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Field Strength of Spurious Radiation(SKU3):

Test Band = LTE Band 4_ TM1

Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	45.55	-48.35	28.68	-69.38	-13.00	56.38	Horizontal
2	5170.77	45.66	-47.87	31.91	-65.56	-13.00	52.56	Horizontal
3	6894.36	45.70	-46.74	35.37	-60.93	-13.00	37.93	Horizontal
4	8617.95	43.69	-44.00	37.07	-58.50	-13.00	45.50	Horizontal
5	10341.54	38.84	-41.19	38.81	-58.80	-13.00	45.80	Horizontal
6	12065.13	37.42	-39.56	39.16	-58.24	-13.00	45.24	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	43.88	-48.35	28.68	-71.05	-13.00	58.05	Vertical
2	5170.77	47.97	-47.87	31.91	-63.25	-13.00	50.25	Vertical
3	6894.36	47.30	-46.74	35.37	-59.33	-13.00	36.33	Vertical
4	8617.95	43.58	-44.00	37.07	-58.61	-13.00	45.61	Vertical
5	10341.54	38.07	-41.19	38.81	-59.57	-13.00	46.57	Vertical
6	12065.13	37.86	-39.56	39.16	-57.80	-13.00	44.80	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---



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