

# Appendix B.4

## LTE Band 4



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	24.21	23.21	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.26	23.26	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.16	23.16	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.24	22.24	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	24.19	23.19	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.23	23.23	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.20	23.20	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.29	22.29	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	24.24	23.24	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.22	23.22	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.14	23.14	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.29	22.29	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.55	22.55	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.44	22.44	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.57	22.57	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.37	21.37	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.60	22.60	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.52	22.52	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.77	22.77	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.34	21.34	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.53	22.53	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.62	22.62	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.54	22.54	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.29	21.29	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.47	21.47	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	22.44	21.44	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.50	21.50	30.00	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	21.39	20.39	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.45	21.45	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.50	21.50	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	22.49	21.49	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.41	20.41	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	22.42	21.42	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.49	21.49	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	22.60	21.60	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	21.33	20.33	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.21	23.21	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.23	23.23	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.21	23.21	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.34	22.34	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.22	23.22	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.25	23.25	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.23	23.23	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.32	22.32	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.19	23.19	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.19	23.19	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.20	23.20	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.30	22.30	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.68	22.68	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.67	22.67	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.59	22.59	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.42	21.42	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.45	22.45	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.55	22.55	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.48	22.48	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.39	21.39	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.70	22.70	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.83	22.83	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.58	22.58	30.00	PASS



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Band4	3MHz	16QAM	20385	15RB#0	22.36	21.36	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	22.53	21.53	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.44	21.44	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	22.49	21.49	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.35	20.35	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	22.40	21.40	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	22.43	21.43	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.50	21.50	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.41	20.41	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	22.41	21.41	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.51	21.51	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.36	21.36	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	21.31	20.31	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	24.19	23.19	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.30	23.30	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	24.17	23.17	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.34	22.34	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	24.17	23.17	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.33	23.33	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	24.19	23.19	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.36	22.36	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	24.22	23.22	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.29	23.29	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	24.17	23.17	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.33	22.33	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.73	22.73	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.67	22.67	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.64	22.64	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.39	21.39	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.64	22.64	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.57	22.57	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.72	22.72	30.00	PASS



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Band4	5MHz	16QAM	20175	25RB#0	22.32	21.32	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.70	22.70	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.55	22.55	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.60	22.60	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.29	21.29	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.48	21.48	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	22.49	21.49	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	22.54	21.54	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.33	20.33	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	22.48	21.48	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.54	21.54	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	22.52	21.52	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	21.34	20.34	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	22.38	21.38	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.57	21.57	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	22.52	21.52	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	21.35	20.35	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	24.18	23.18	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.26	23.26	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.17	23.17	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.33	22.33	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	24.13	23.13	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.24	23.24	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	24.23	23.23	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.41	22.41	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	24.18	23.18	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.32	23.32	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	24.26	23.26	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.34	22.34	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.49	22.49	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.44	22.44	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.56	22.56	30.00	PASS



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Band4	10MHz	16QAM	20000	50RB#0	22.33	21.33	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.37	22.37	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.78	22.78	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.46	22.46	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.37	21.37	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.51	22.51	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.65	22.65	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.51	22.51	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.28	21.28	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.48	21.48	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.51	21.51	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.44	21.44	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.41	20.41	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	22.38	21.38	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.54	21.54	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.47	21.47	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.41	20.41	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	22.51	21.51	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.55	21.55	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.57	21.57	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.26	20.26	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.92	22.92	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.98	22.98	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.07	23.07	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.17	22.17	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.90	22.90	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.05	23.05	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.17	23.17	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.23	22.23	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.87	22.87	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.06	23.06	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.12	23.12	30.00	PASS



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Band4	15MHz	QPSK	20325	75RB#0	23.15	22.15	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.27	22.27	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.38	22.38	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.47	22.47	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.23	21.23	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.12	22.12	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.79	22.79	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.36	22.36	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.18	21.18	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.46	22.46	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.70	22.70	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.35	22.35	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.13	21.13	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	22.41	21.41	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	22.44	21.44	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	22.44	21.44	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.26	20.26	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	22.25	21.25	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.44	21.44	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	22.45	21.45	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	21.21	20.21	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	22.13	21.13	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.26	21.26	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	22.60	21.60	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.09	20.09	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.86	22.86	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.96	22.96	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	24.11	23.11	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.21	22.21	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.93	22.93	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.00	23.00	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	24.15	23.15	30.00	PASS



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Band4	20MHz	QPSK	20175	100RB#0	23.24	22.24	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.95	22.95	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.10	23.10	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	24.12	23.12	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.21	22.21	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.76	22.76	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.31	22.31	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.52	22.52	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.20	21.20	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.40	22.40	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.31	22.31	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.53	22.53	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.21	21.21	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.55	22.55	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.52	22.52	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.36	22.36	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.23	21.23	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	22.69	21.69	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	22.40	21.40	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.41	21.41	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.18	20.18	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	22.20	21.20	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.22	21.22	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.49	21.49	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	21.23	20.23	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	22.37	21.37	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.25	21.25	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.38	21.38	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.23	20.23	30.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

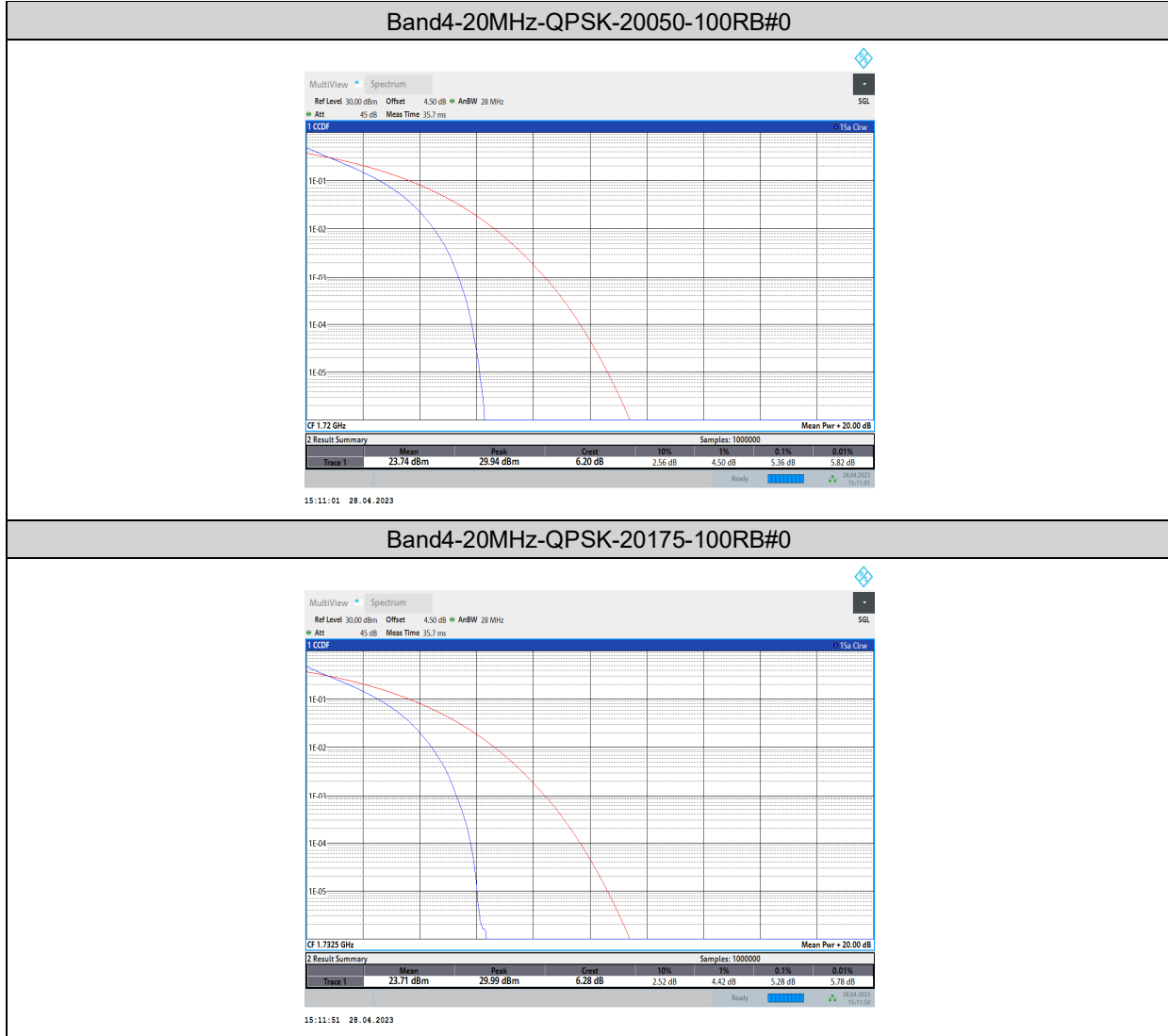
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.36	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.28	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.40	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.10	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.04	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.20	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.56	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.44	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.58	13	PASS



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Test Graphs

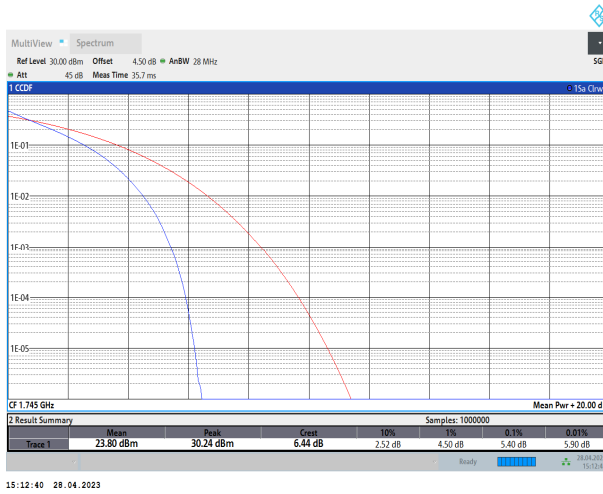


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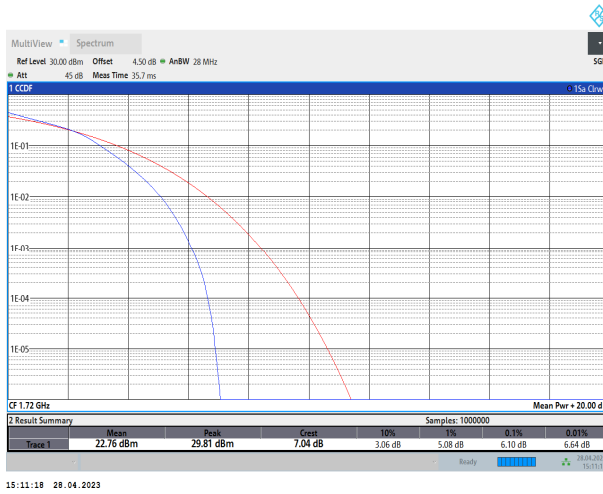
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Band4-20MHz-QPSK-20300-100RB#0



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

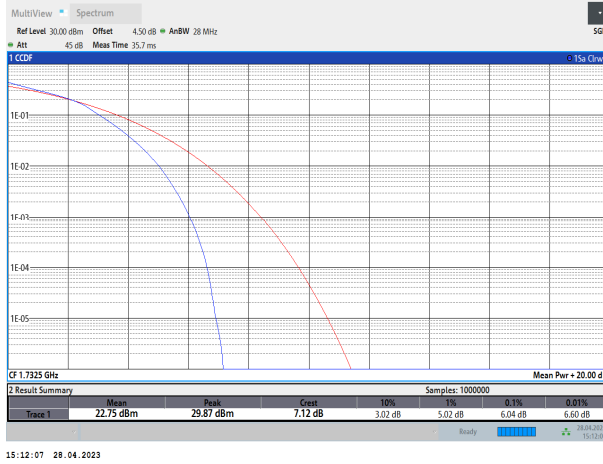


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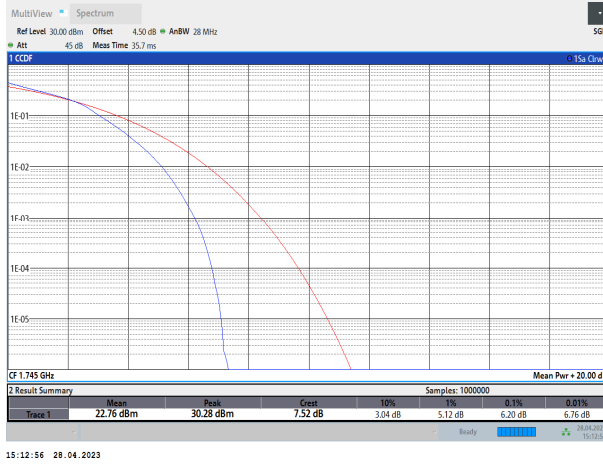
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Band4-20MHz-16QAM-20175-100RB#0



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

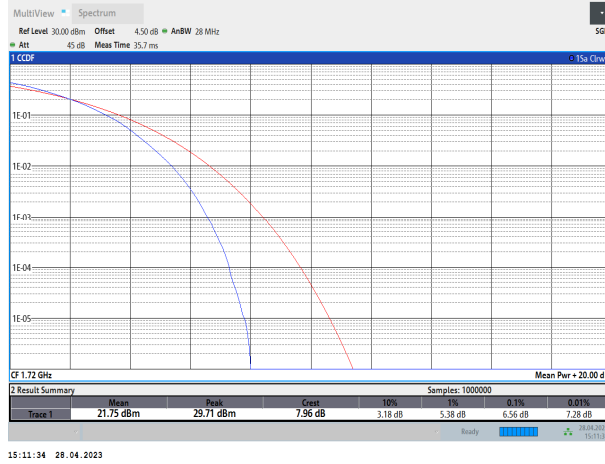


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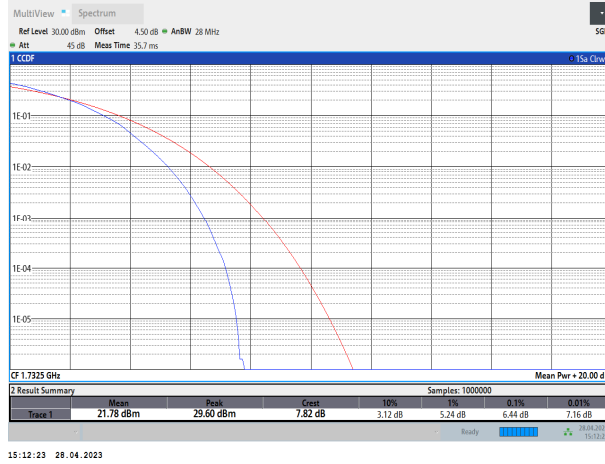
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Band4-20MHz-64QAM-20050-100RB#0



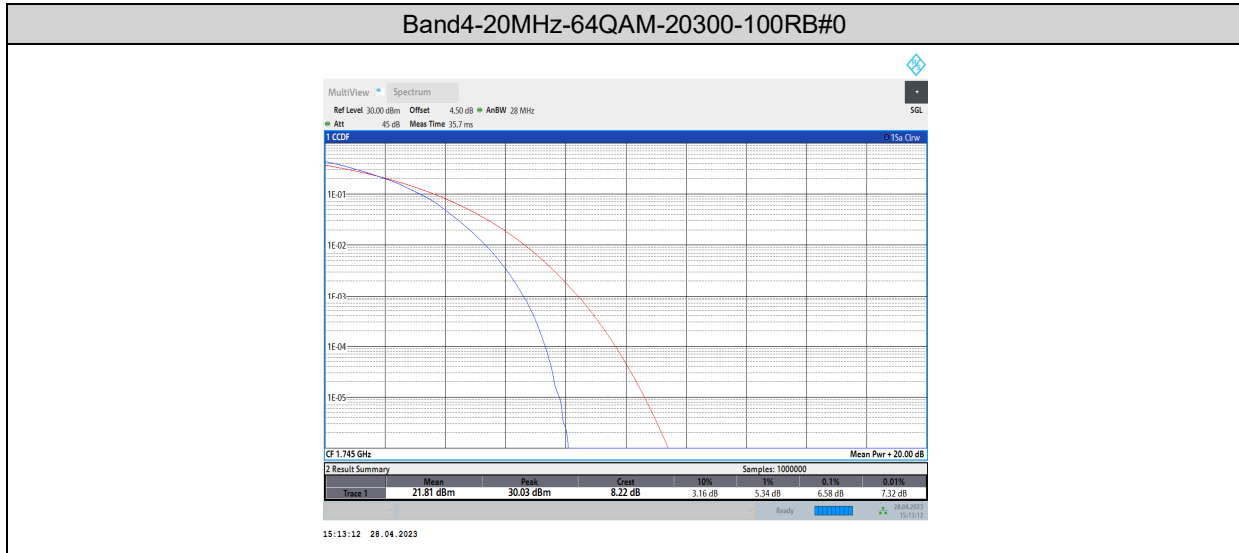
Band4-20MHz-64QAM-20175-100RB#0



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## Modulation Characteristics

### Test Result

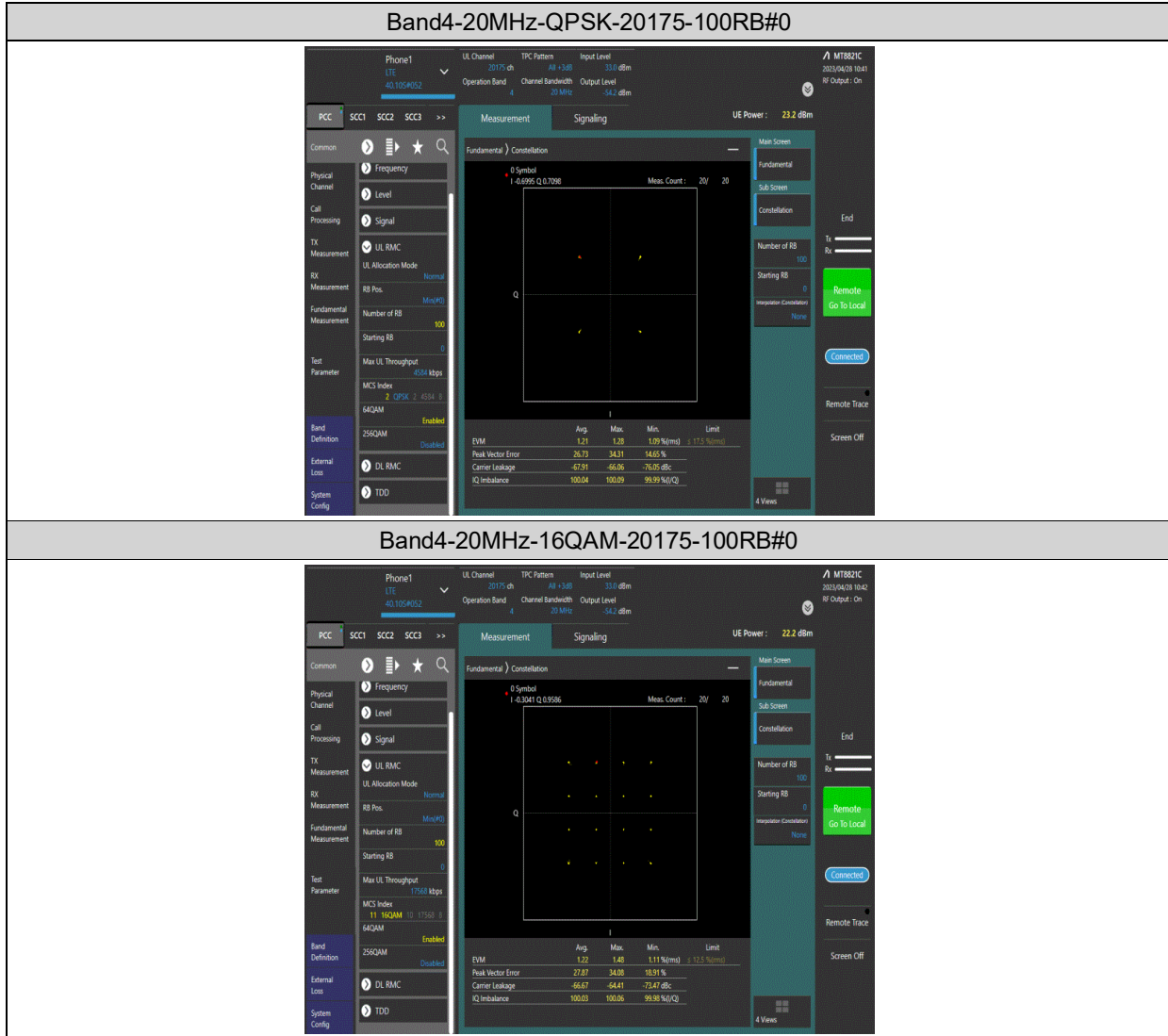
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS



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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	1.087	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.088	1.33	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.095	1.40	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.099	1.34	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.093	1.33	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.096	1.34	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.105	1.35	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.084	1.32	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.105	1.36	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.698	2.97	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.692	2.99	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.703	3.04	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.696	3.02	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.695	3.04	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.704	3.03	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.708	2.99	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.702	2.98	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.702	3.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.479	5.03	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.469	5.01	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.478	4.89	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.482	4.95	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.464	4.84	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.464	4.88	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.473	4.97	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.477	4.95	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.460	4.86	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.955	9.70	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.946	9.80	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.929	9.70	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.962	9.66	PASS



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Band4	10MHz	16QAM	20175	50RB#0	8.935	9.72	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.958	9.78	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.961	9.80	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.939	9.66	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.957	9.66	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.470	14.88	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.481	14.73	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.494	14.91	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.510	14.73	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.440	14.67	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.491	14.76	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.505	14.64	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.454	14.58	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.505	14.82	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.944	19.64	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.920	19.68	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.974	19.16	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.962	19.64	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.921	19.28	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.900	19.40	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.981	19.60	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.874	19.80	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.921	19.12	PASS

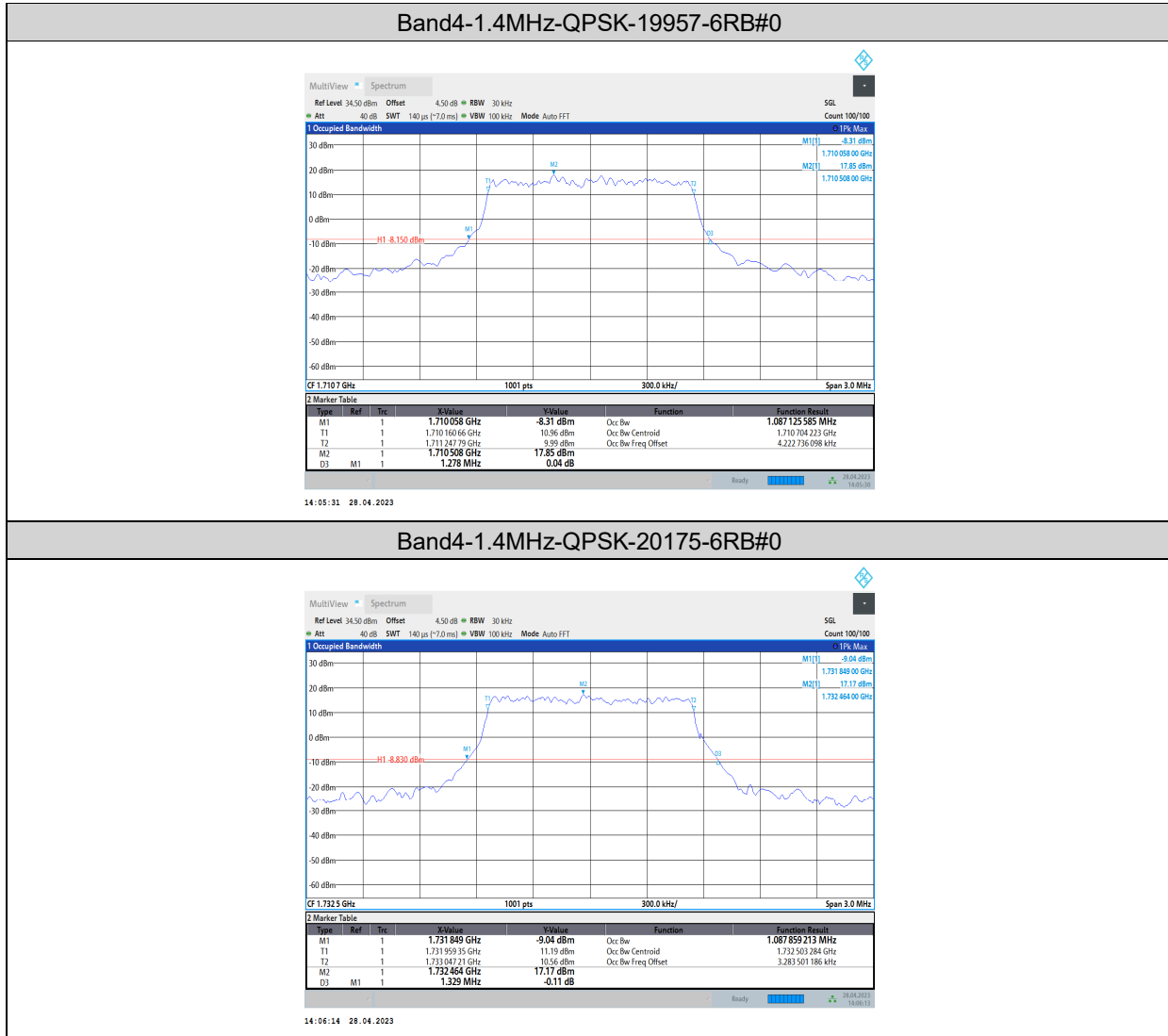


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Test Graphs

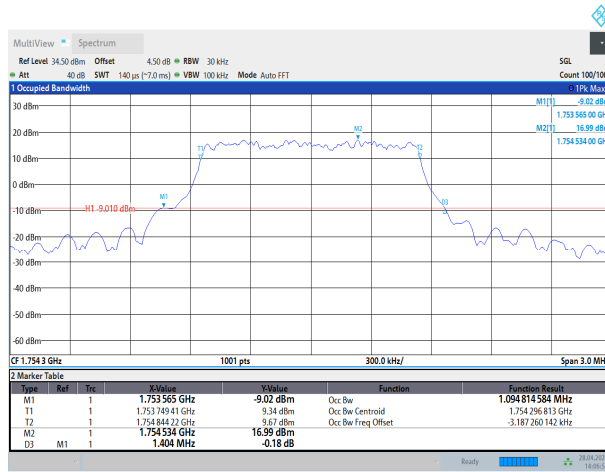


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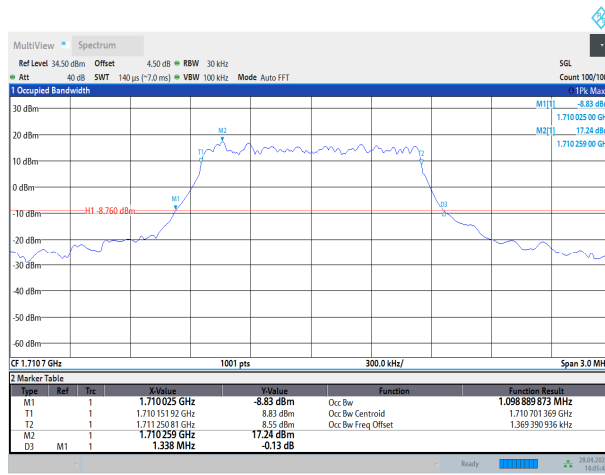
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Band4-1.4MHz-QPSK-20393-6RB#0



14:06:57 28.04.2023

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



14:05:45 28.04.2023

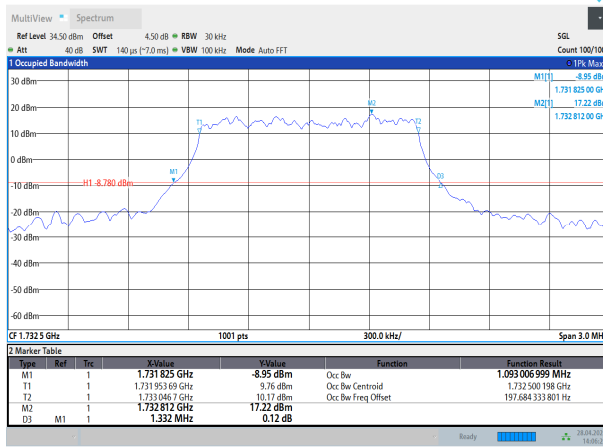


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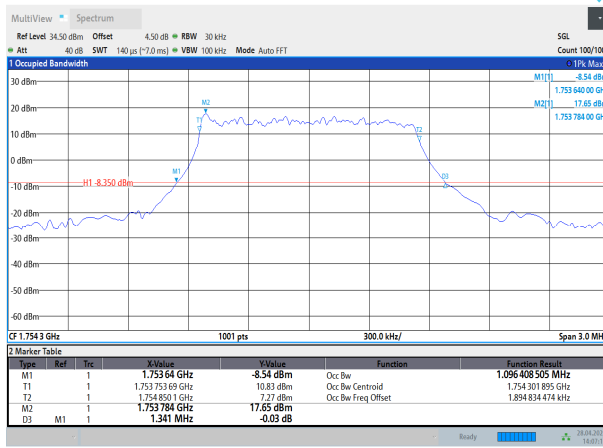
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Band4-1.4MHz-16QAM-20175-6RB#0



14: 06:28 28. 04. 2023

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



14: 07:11 28. 04. 2023

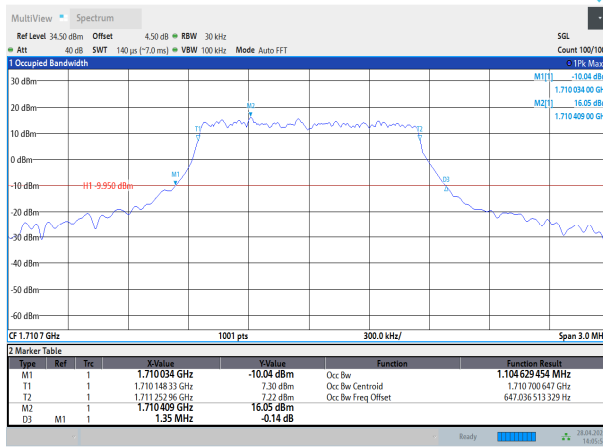


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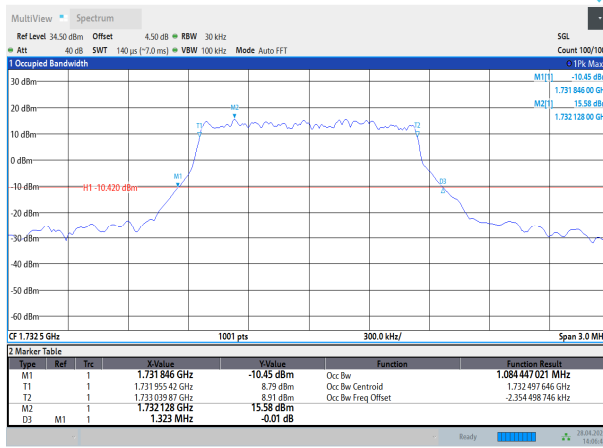
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Band4-1.4MHz-64QAM-19957-6RB#0



14:05:59 28.04.2023

Band4-1.4MHz-64QAM-20175-6RB#0



14:06:42 28.04.2023

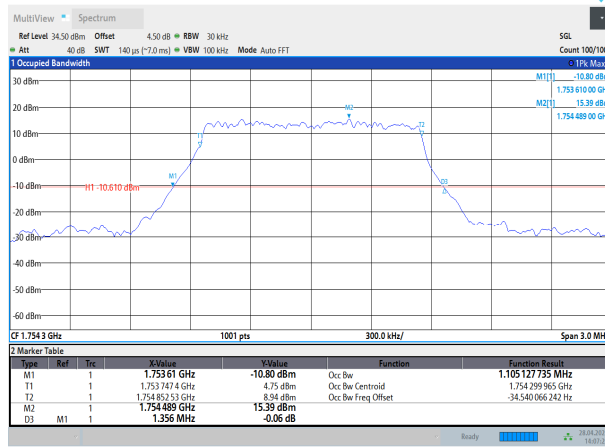


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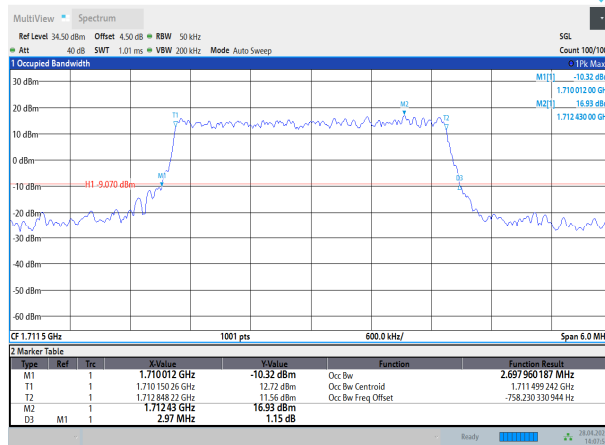
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Band4-1.4MHz-64QAM-20393-6RB#0



14:07:25 28.04.2023

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



14:07:53 28.04.2023



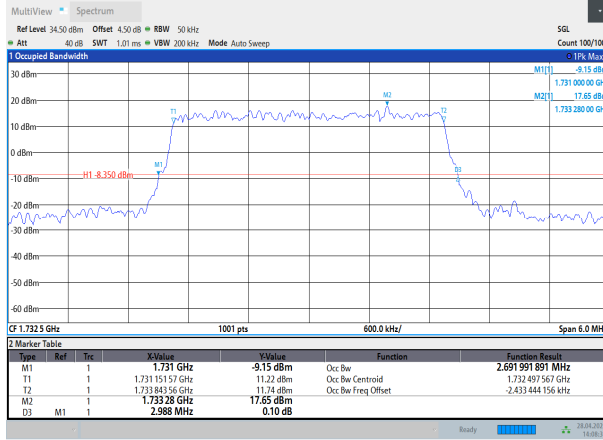
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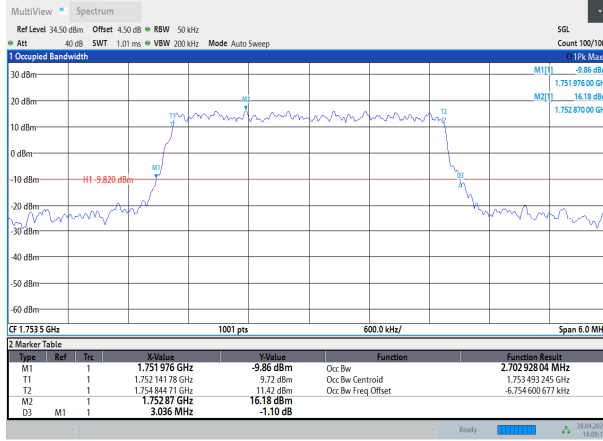


Band4-3MHz-QPSK-20175-15RB#0



14:08:33 28.04.2023

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



14:09:13 28.04.2023

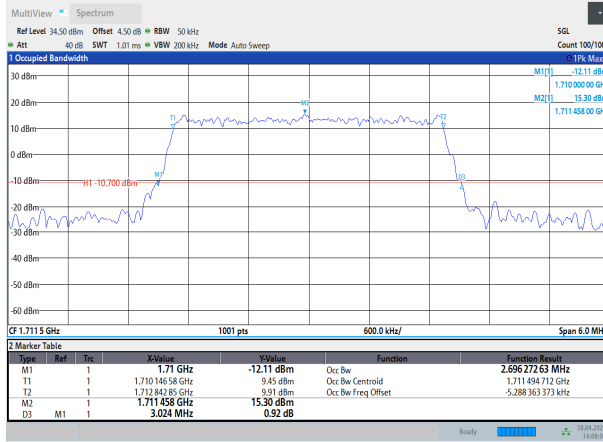


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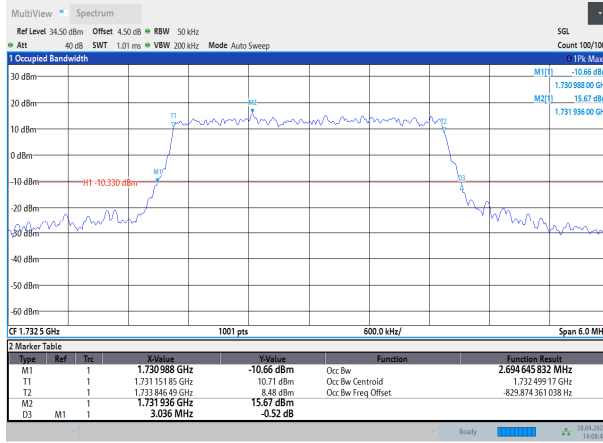
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Band4-3MHz-16QAM-19965-15RB#0



14:08:07 28.04.2023

Band4-3MHz-16QAM-20175-15RB#0



14:08:46 28.04.2023

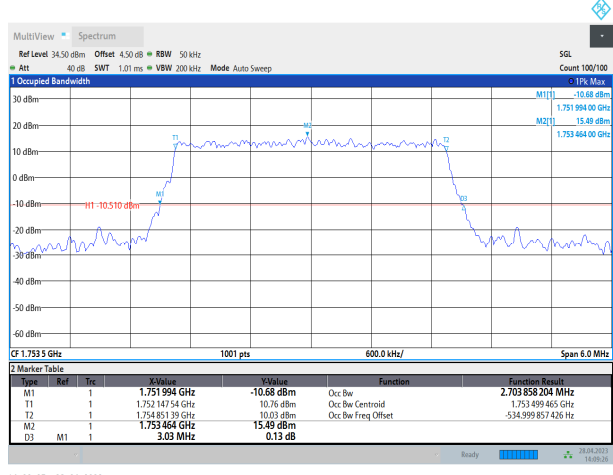


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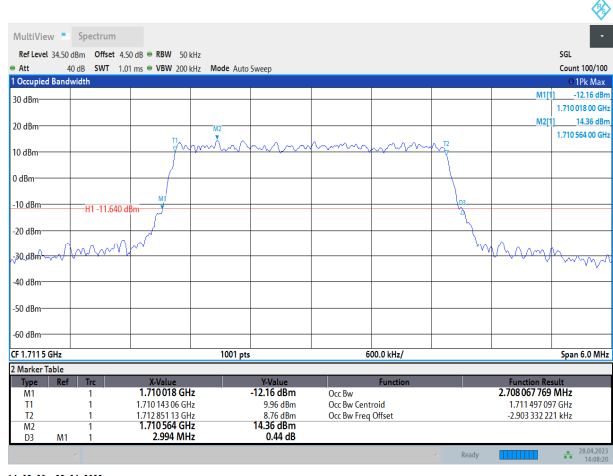
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Band4-3MHz-16QAM-20385-15RB#0



14:09:27 28.04.2023

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



14:08:20 28.04.2023

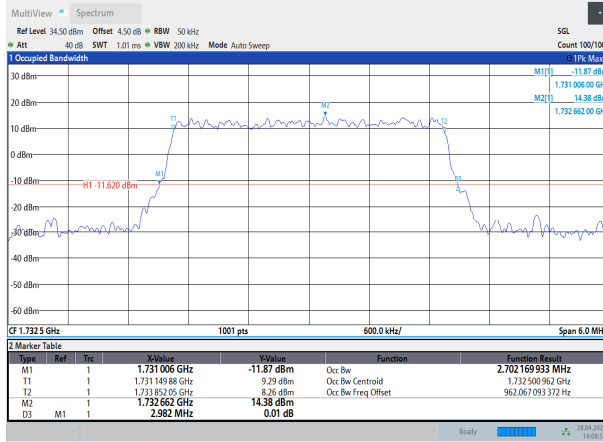


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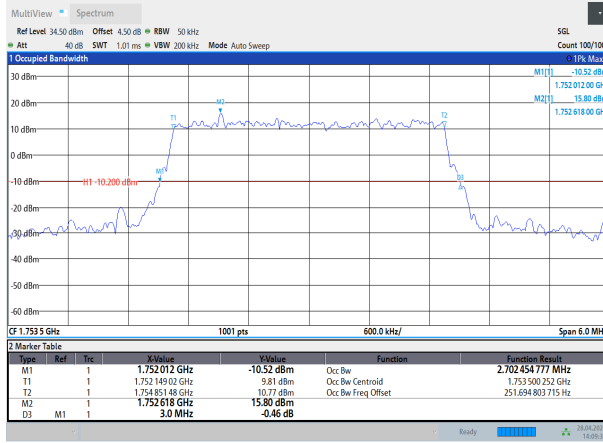
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Band4-3MHz-64QAM-20175-15RB#0



14:09:00 28.04.2023

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



14:09:40 28.04.2023

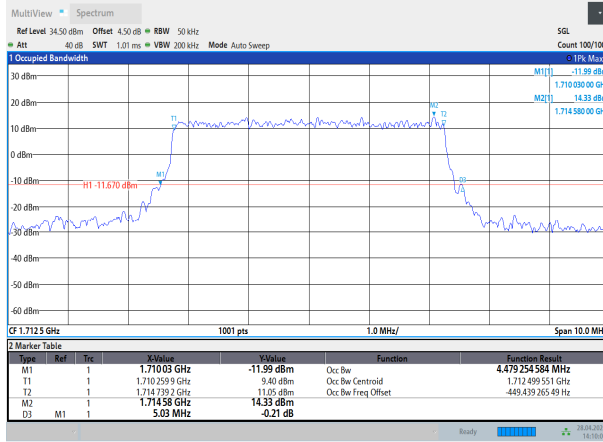


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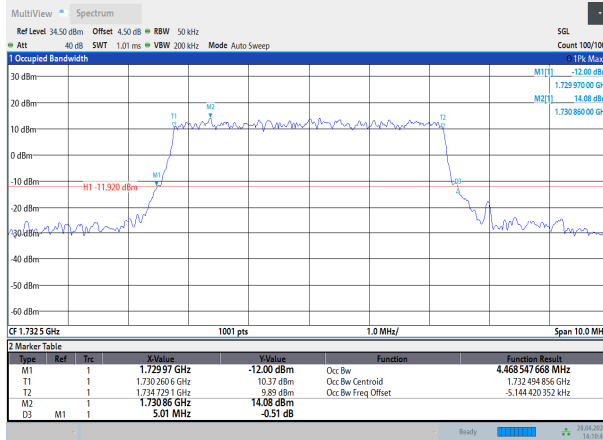
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Band4-5MHz-QPSK-19975-25RB#0



14:10:06 28.04.2023

Band4-5MHz-QPSK-20175-25RB#0



14:10:46 28.04.2023

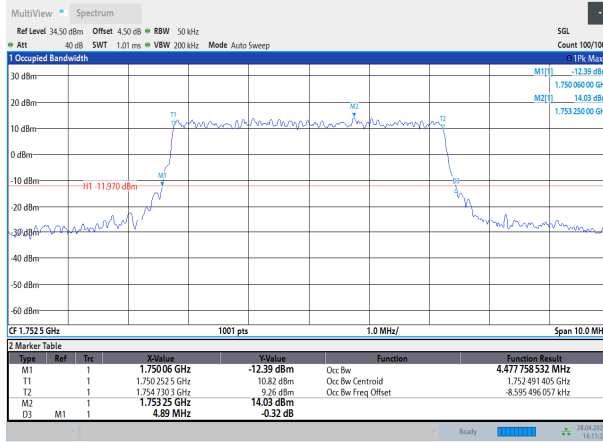


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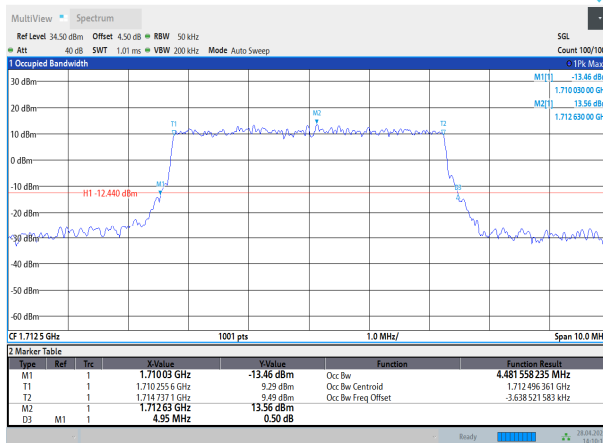
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Band4-5MHz-QPSK-20375-25RB#0



14:11:26 28.04.2023

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



14:10:19 28.04.2023

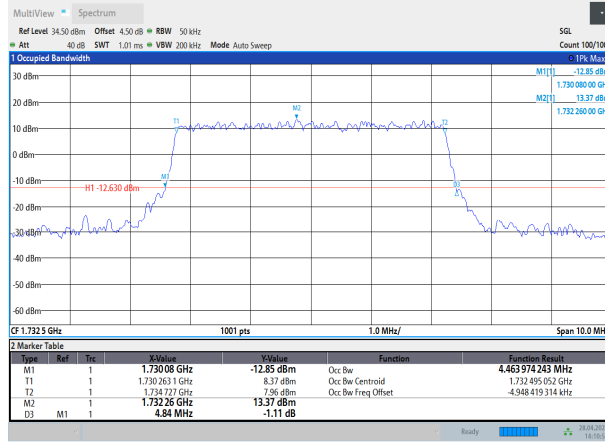


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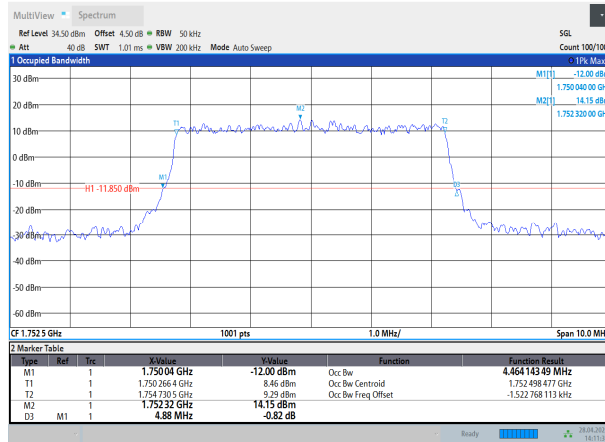
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Band4-5MHz-16QAM-20175-25RB#0



14:10:59 28.04.2023

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



14:11:39 28.04.2023

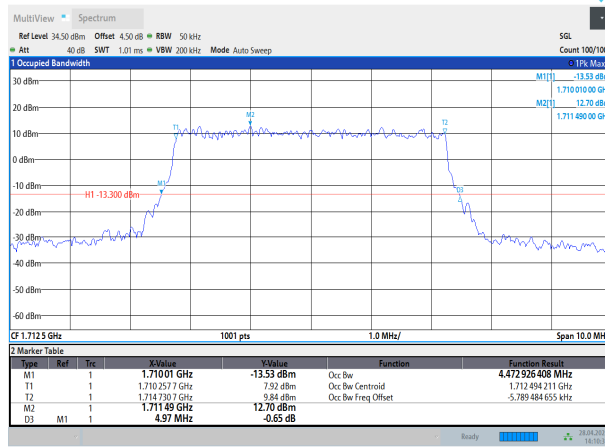


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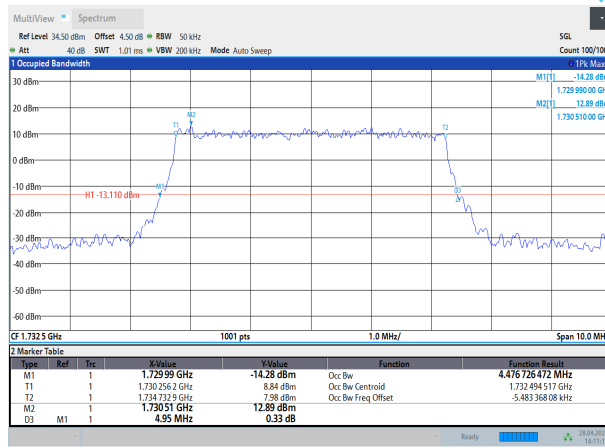
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Band4-5MHz-64QAM-19975-25RB#0



14:10:32 28.04.2023

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



14:11:12 28.04.2023



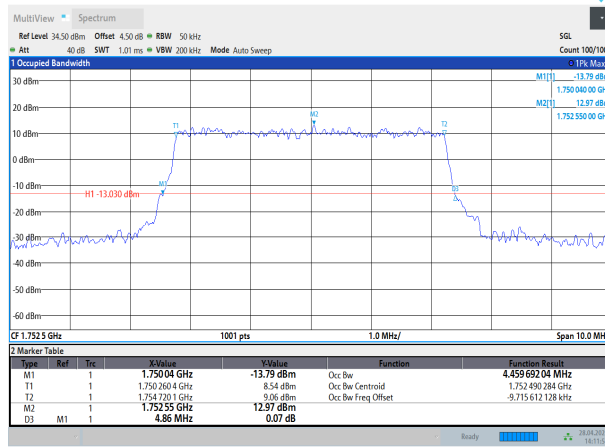
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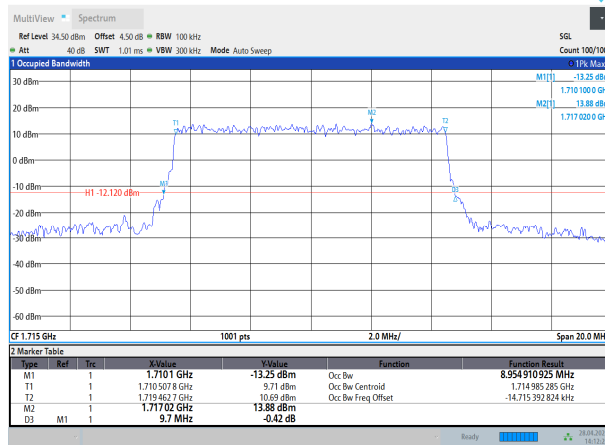


Band4-5MHz-64QAM-20375-25RB#0



14:11:52 28. 04. 2023

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



14:12:21 28. 04. 2023

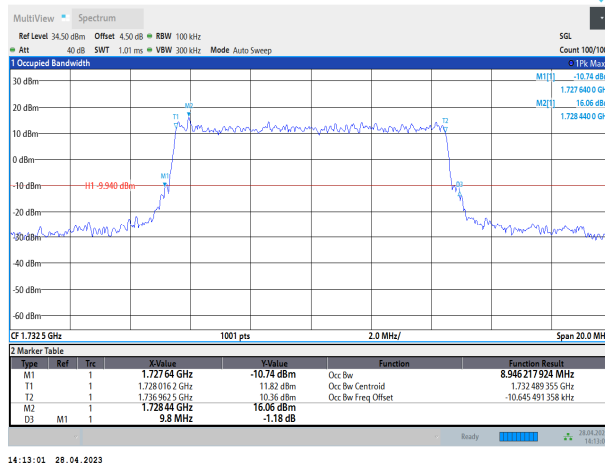


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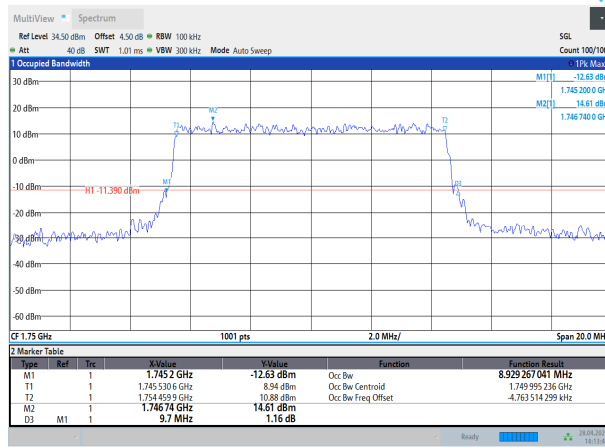
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Band4-10MHz-QPSK-20175-50RB#0



14:13:01 28.04.2023

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



14:13:41 28.04.2023

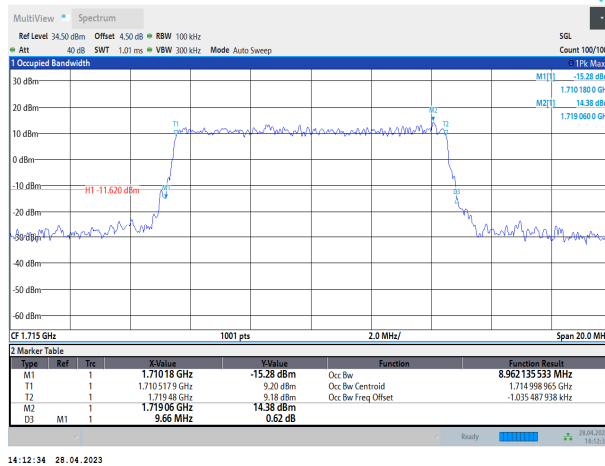


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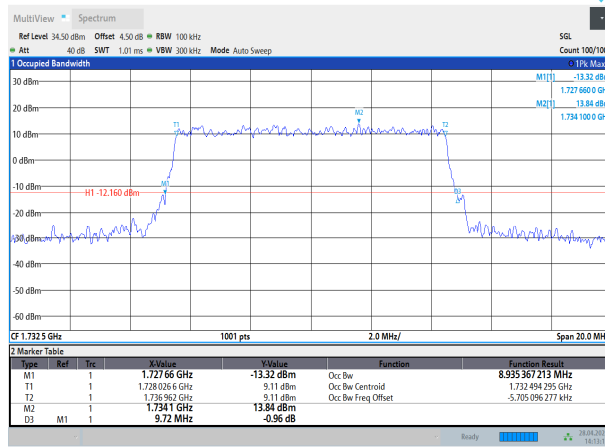
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Band4-10MHz-16QAM-20000-50RB#0



14:12:34 28.04.2023

Band4-10MHz-16QAM-20175-50RB#0



14:13:14 28.04.2023

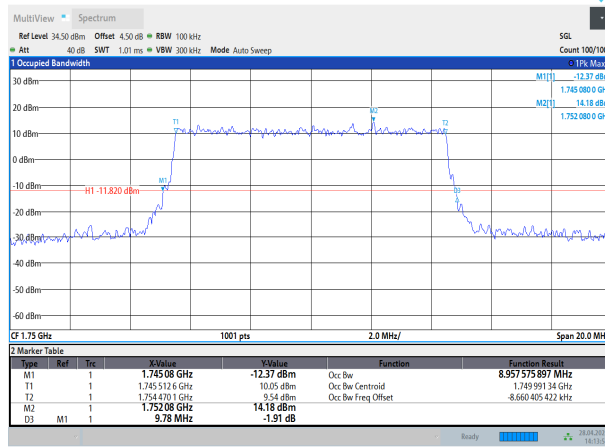


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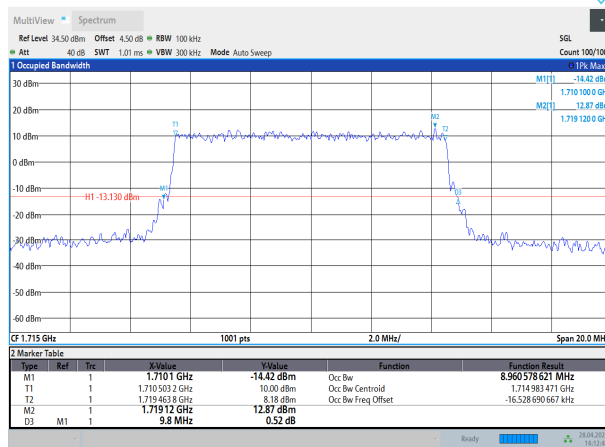
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Band4-10MHz-64QAM-20000-50RB#0



14:12:47 28.04.2023

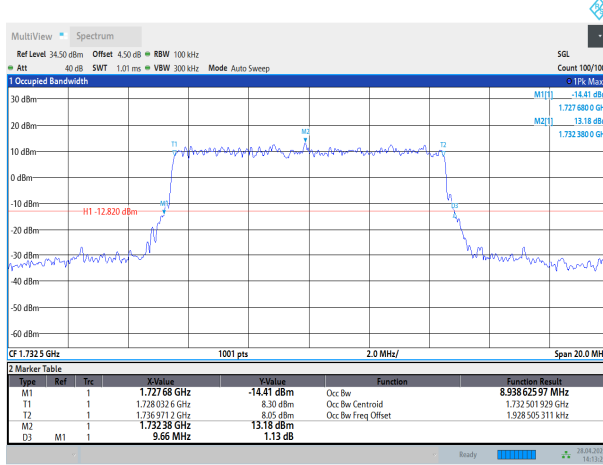


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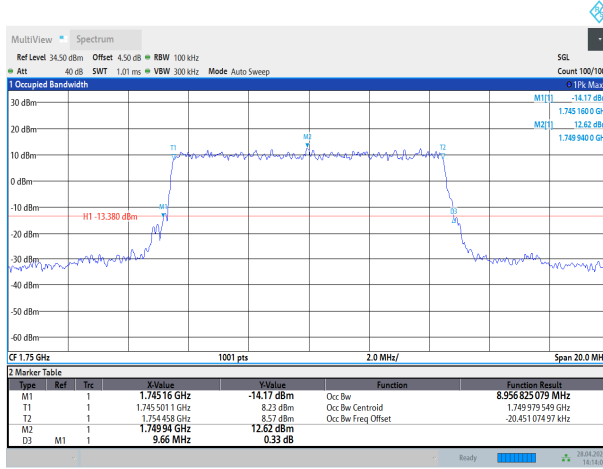
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14:13:27 28.04.2023

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



14:14:07 28.04.2023

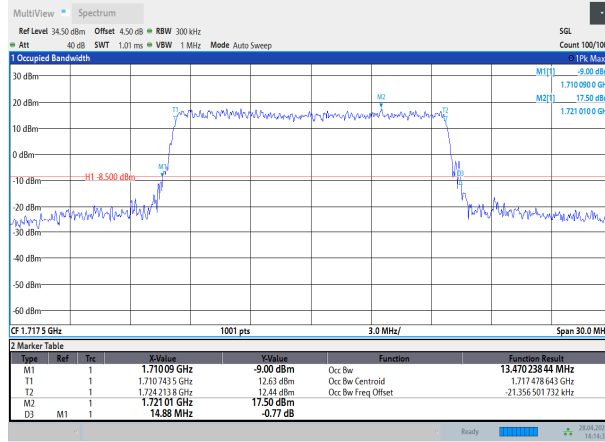


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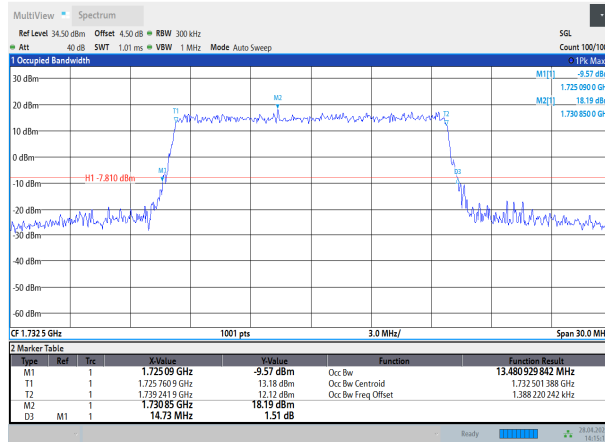
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Band4-15MHz-QPSK-20025-75RB#0



14:14:35 28.04.2023

Band4-15MHz-QPSK-20175-75RB#0



14:15:15 28.04.2023

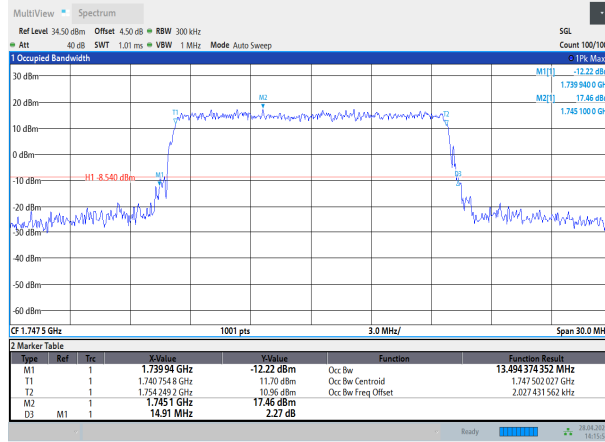


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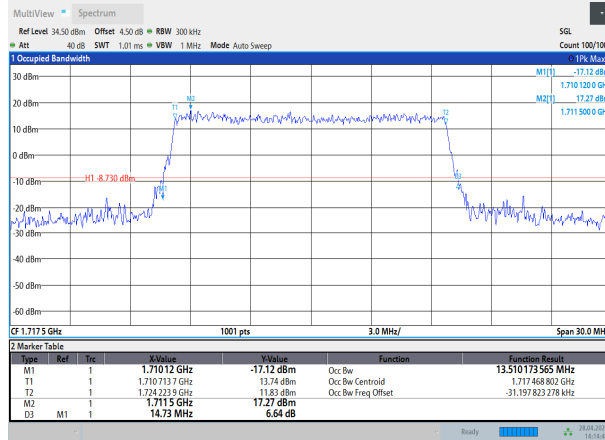
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14:15:55 28.04.2023

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



14:14:48 28.04.2023

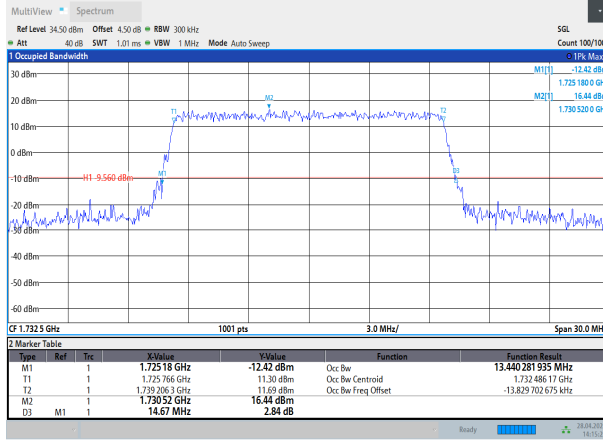


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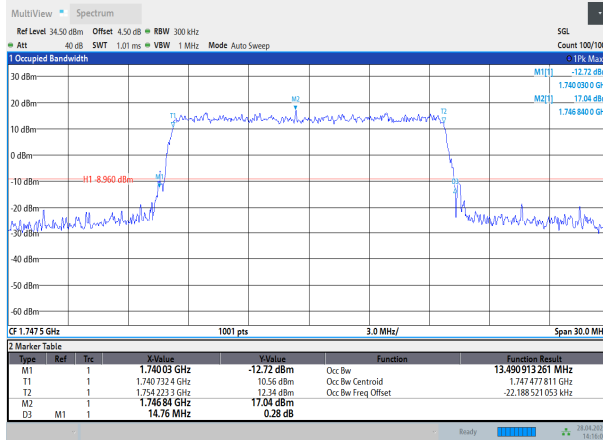
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Band4-15MHz-16QAM-20175-75RB#0



14:15:28 28.04.2023

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



14:16:08 28.04.2023



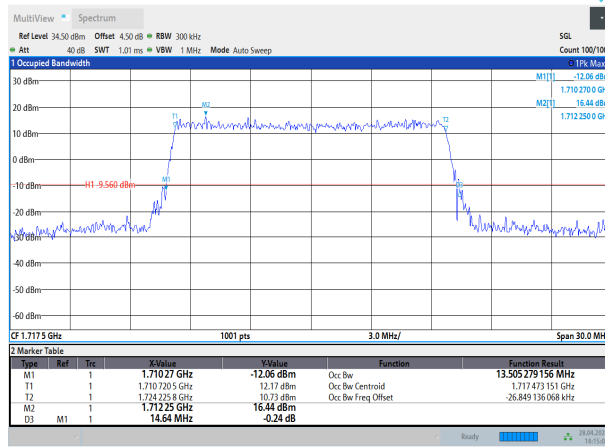
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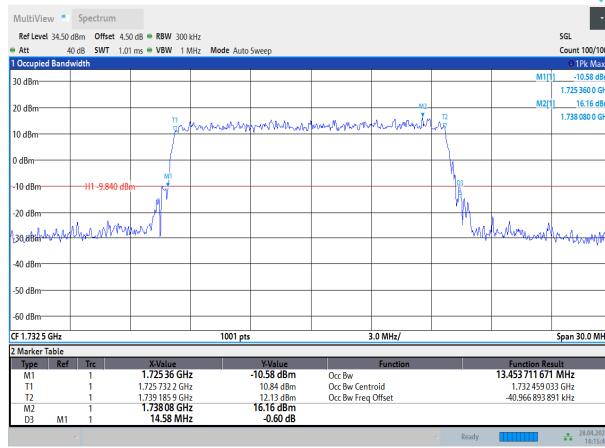


Band4-15MHz-64QAM-20025-75RB#0



14:15:02 28. 04. 2023

Band4-15MHz-64QAM-20175-75RB#0



14:15:41 28. 04. 2023

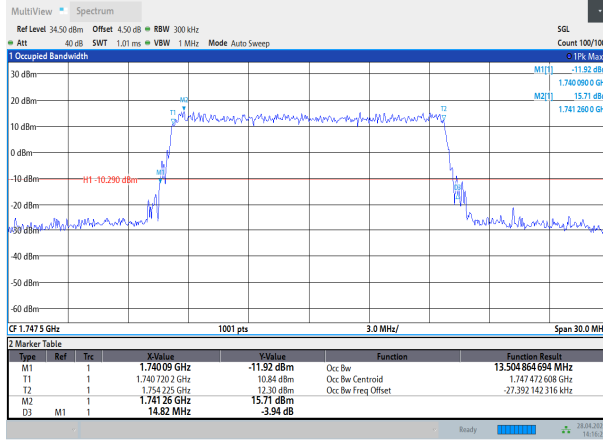


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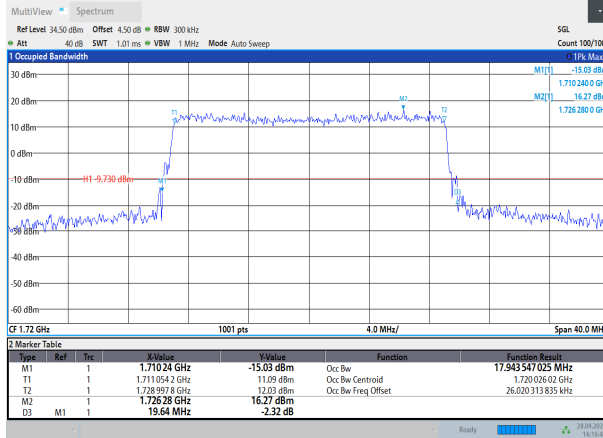
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Band4-15MHz-64QAM-20325-75RB#0



14:16:21 28. 04. 2023

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



14:16:50 28. 04. 2023

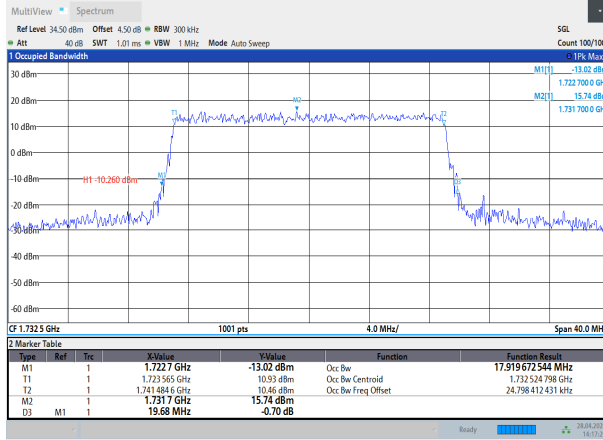


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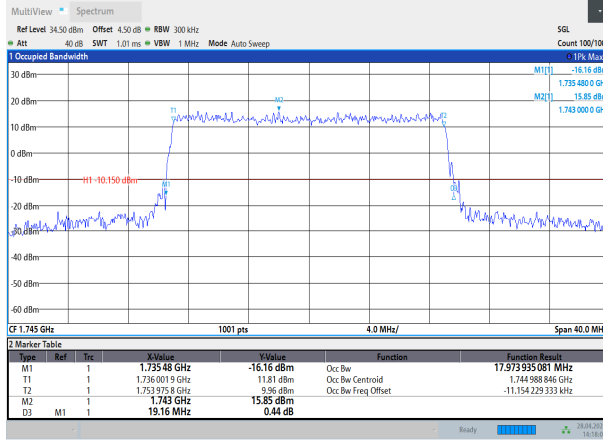
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Band4-20MHz-QPSK-20175-100RB#0



14:17:30 28. 04. 2023

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



14:18:09 28. 04. 2023

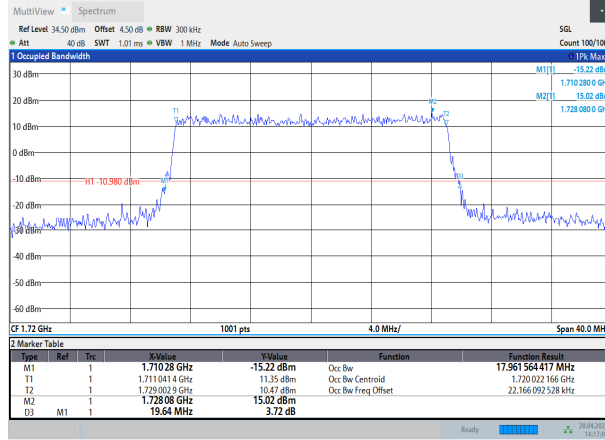


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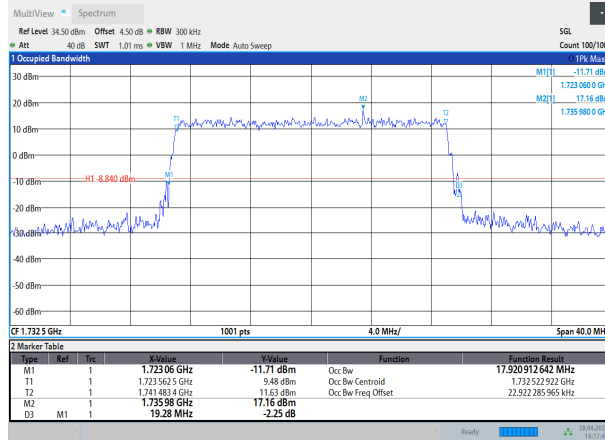
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Band4-20MHz-16QAM-20050-100RB#0



14:17:03 28.04.2023

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



14:17:43 28.04.2023

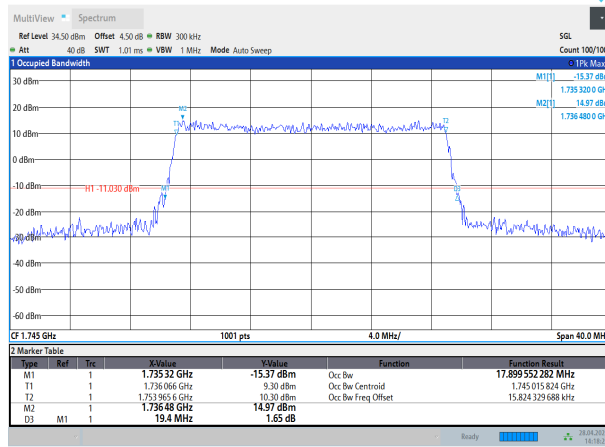


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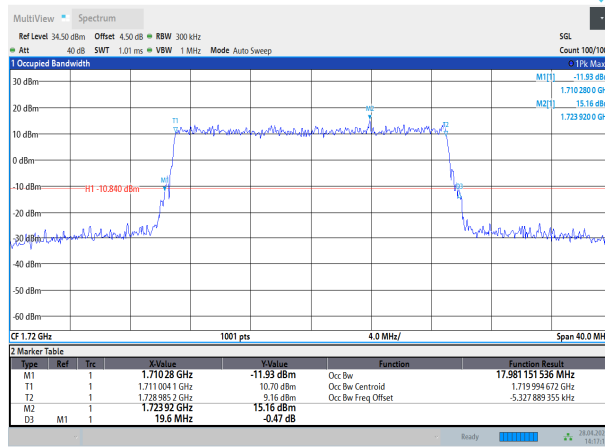
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Band4-20MHz-16QAM-20300-100RB#0



14:18:23 28.04.2023

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



14:17:16 28.04.2023

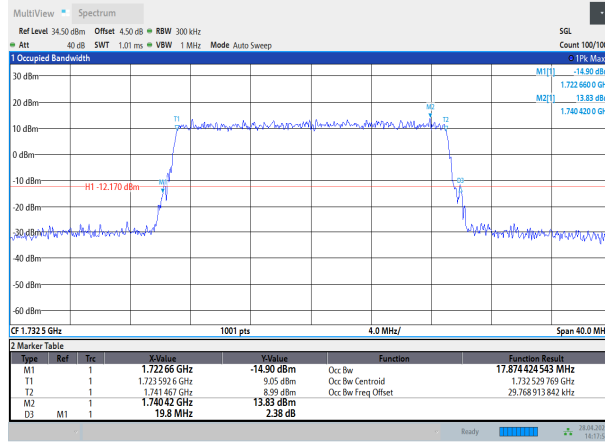


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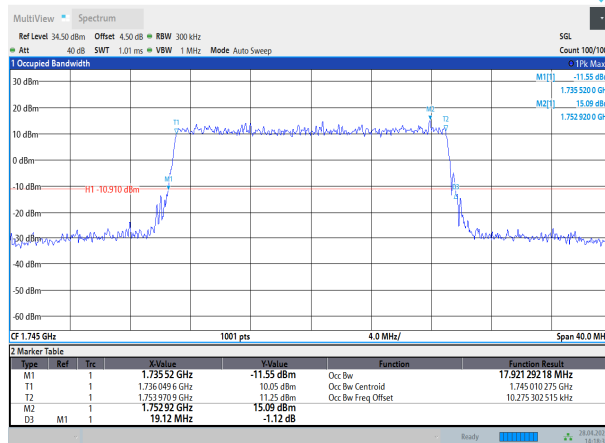
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Band4-20MHz-64QAM-20175-100RB#0



14:17:56 28.04.2023

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



14:18:36 28.04.2023



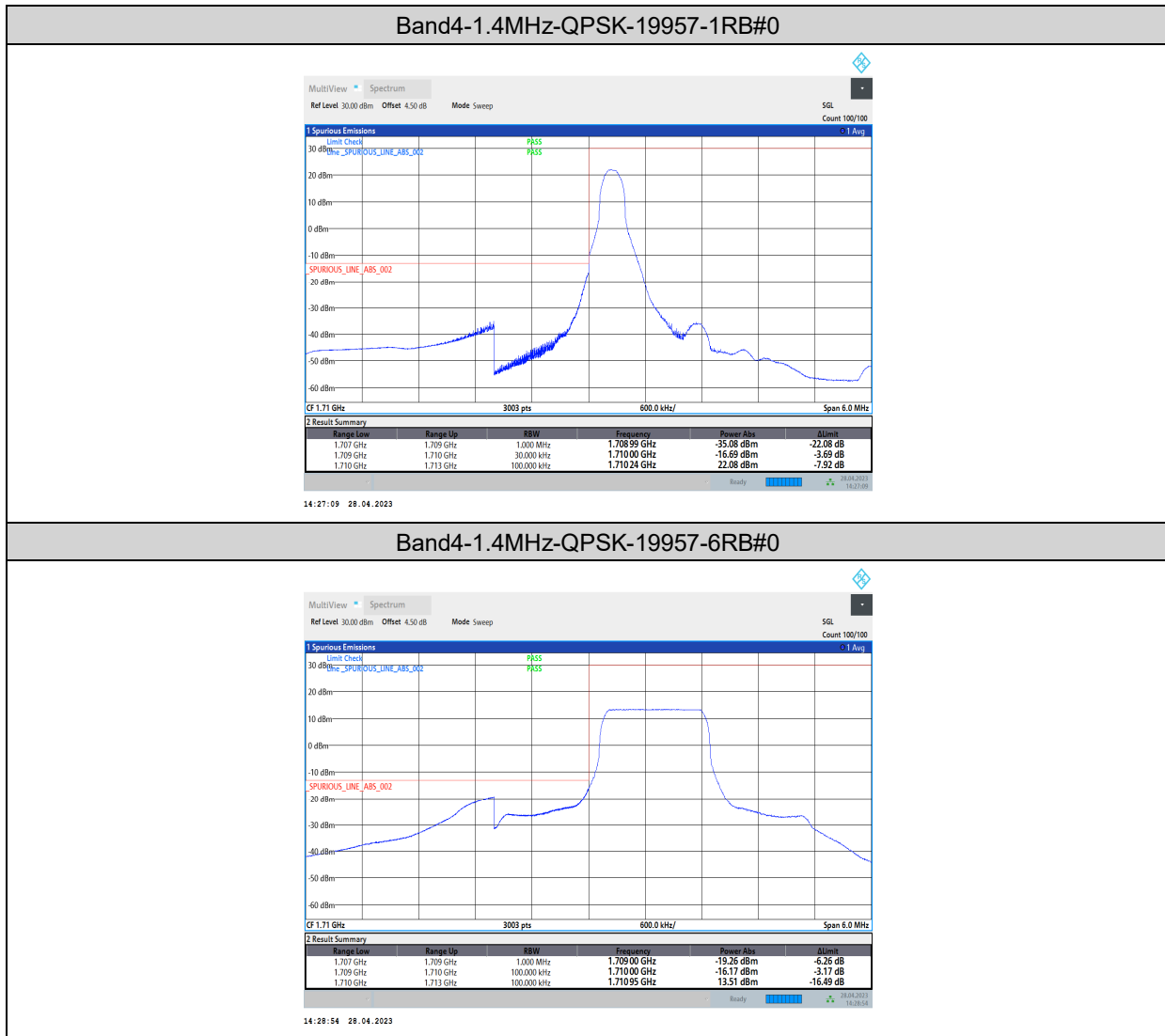
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## Band Edge

## Test Graphs

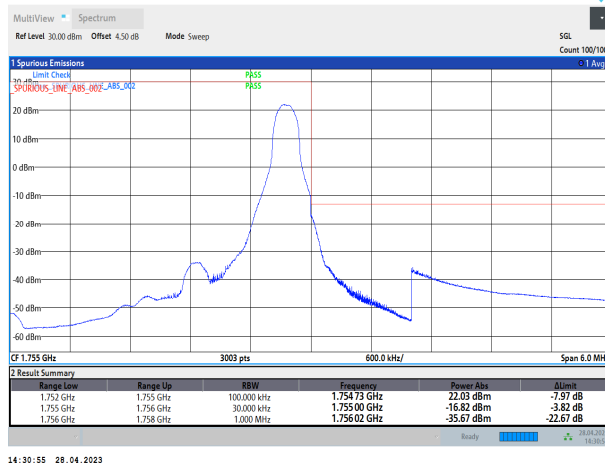


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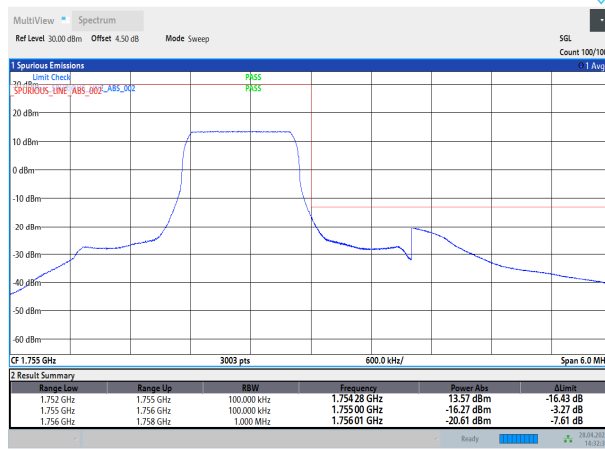
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Band4-1.4MHz-QPSK-20393-1RB#5



14:30:55 28.04.2023

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



14:32:39 28.04.2023



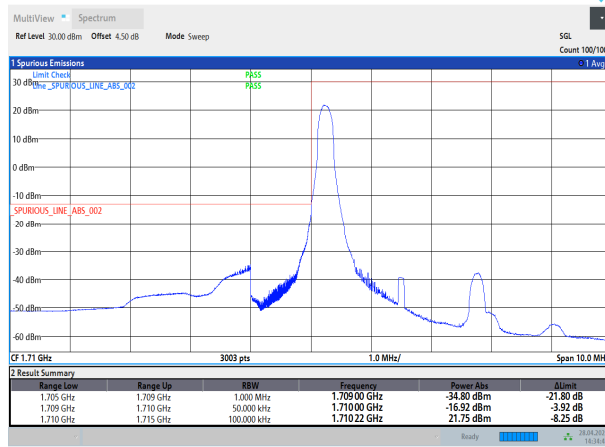
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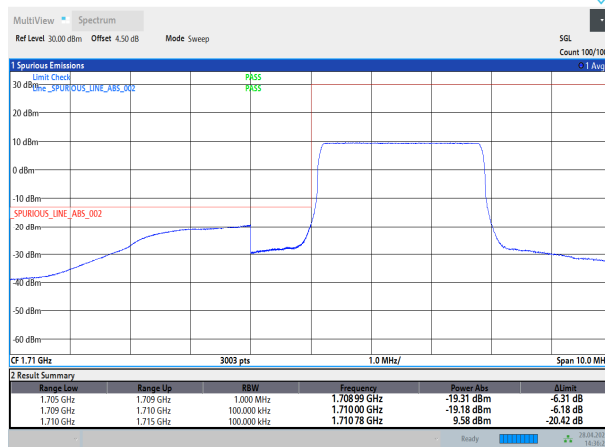


Band4-3MHz-QPSK-19965-1RB#0



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



14:36:26 28.04.2023

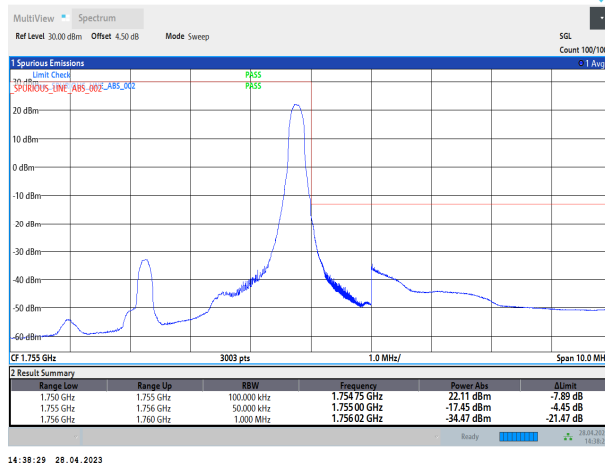


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Band4-3MHz-QPSK-20385-1RB#14



14:38:29 28.04.2023

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



14:40:14 28.04.2023

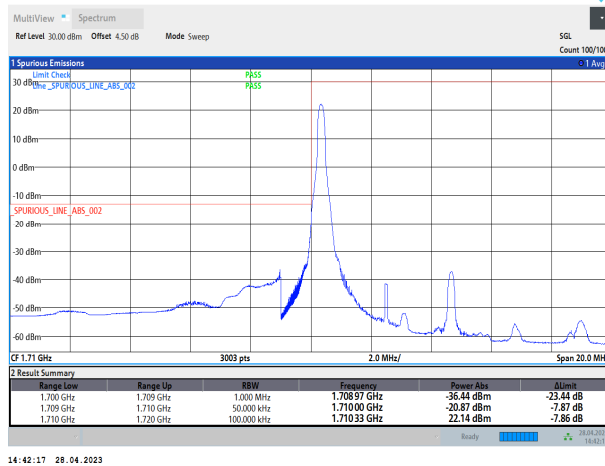


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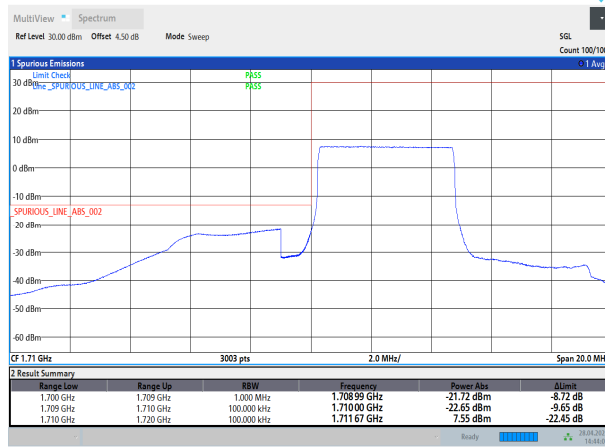
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Band4-5MHz-QPSK-19975-1RB#0



14:42:17 28.04.2023

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



14:44:01 28.04.2023

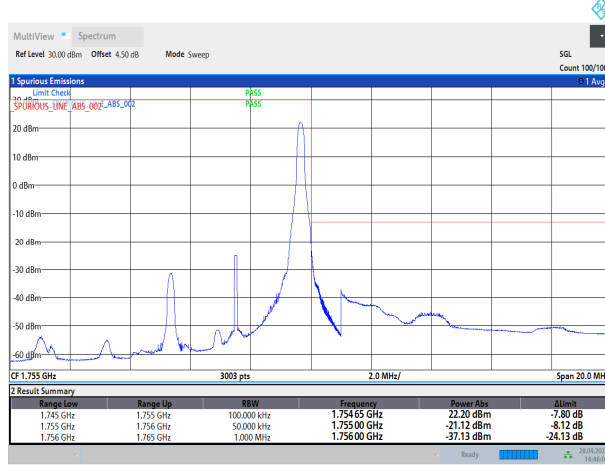


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Band4-5MHz-QPSK-20375-1RB#24



14:46:02 28.04.2023

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



14:47:46 28.04.2023

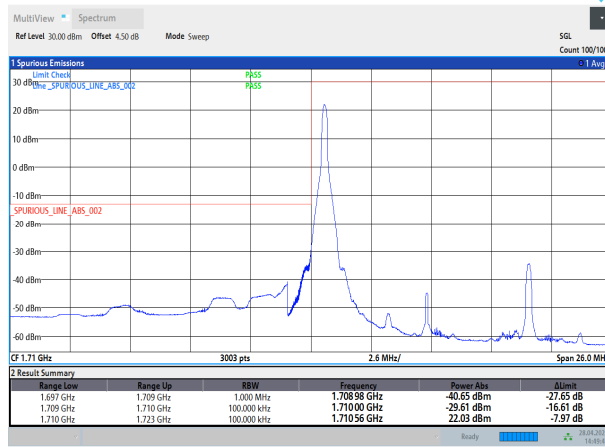


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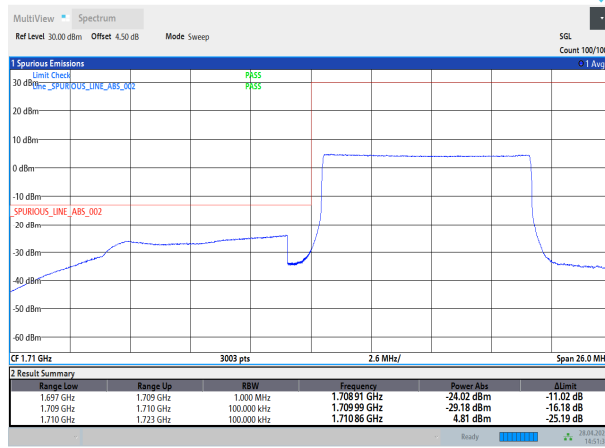
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Band4-10MHz-QPSK-20000-1RB#0



14:49:50 28.04.2023

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



14:51:34 28.04.2023

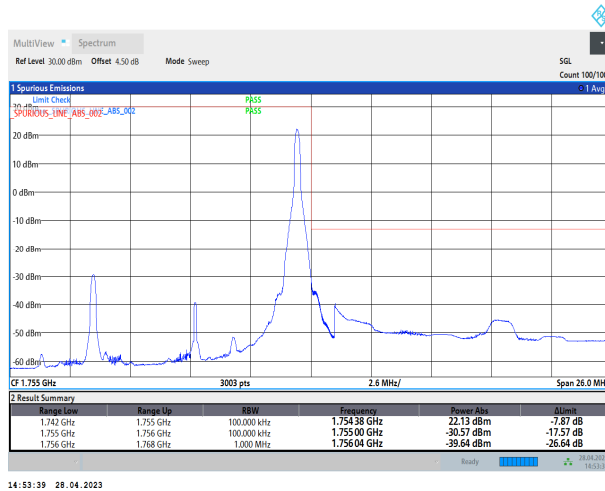


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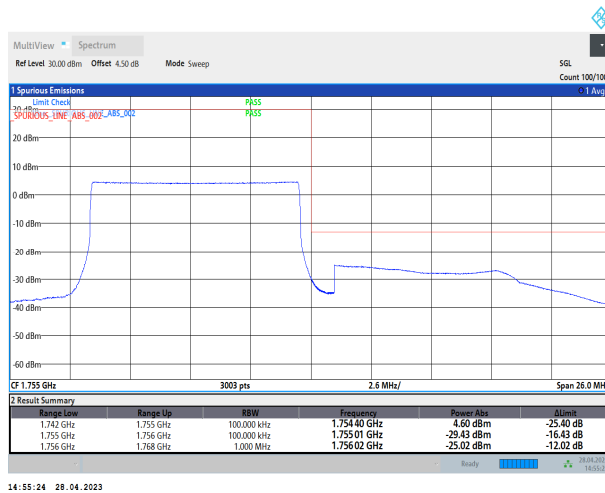
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Band4-10MHz-QPSK-20350-1RB#49



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

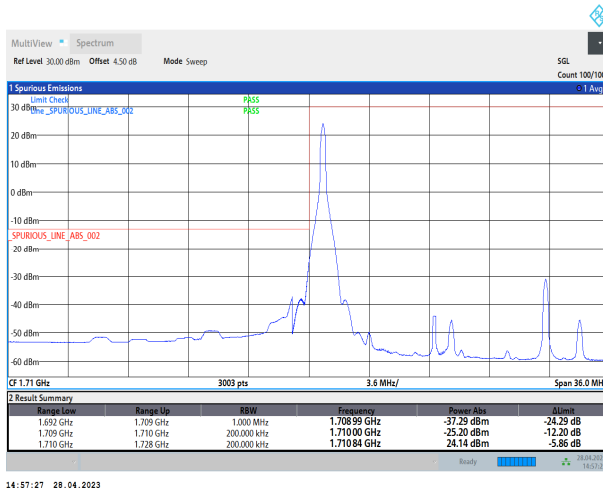


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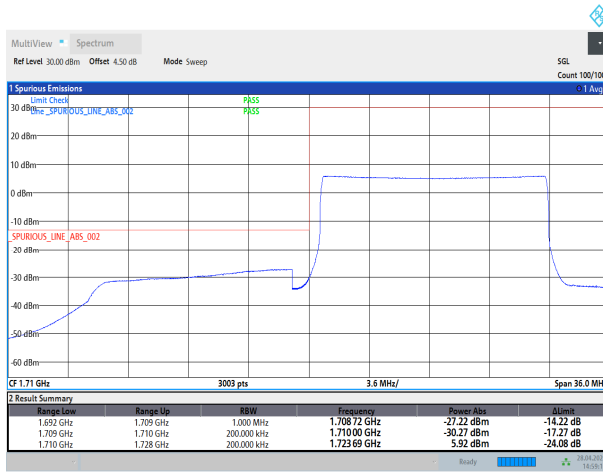
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Band4-15MHz-QPSK-20025-1RB#0



14:57:27 28.04.2023

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



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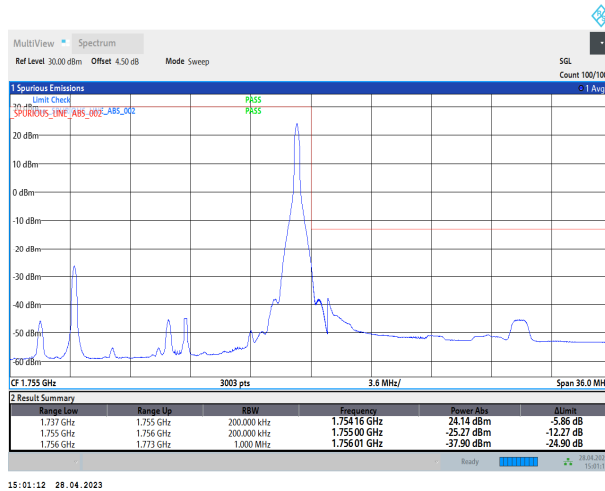


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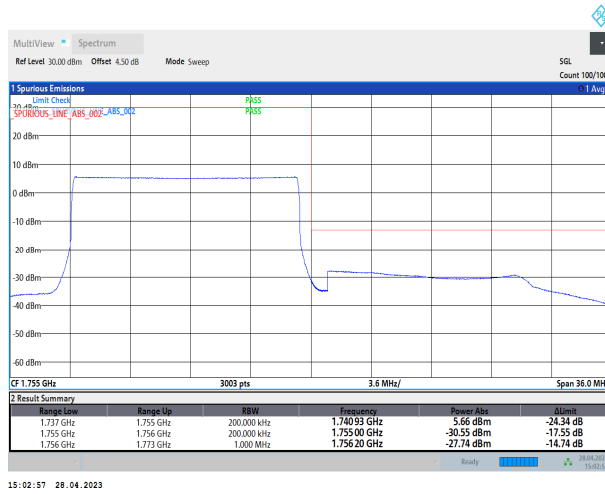
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Band4-15MHz-QPSK-20325-1RB#74



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



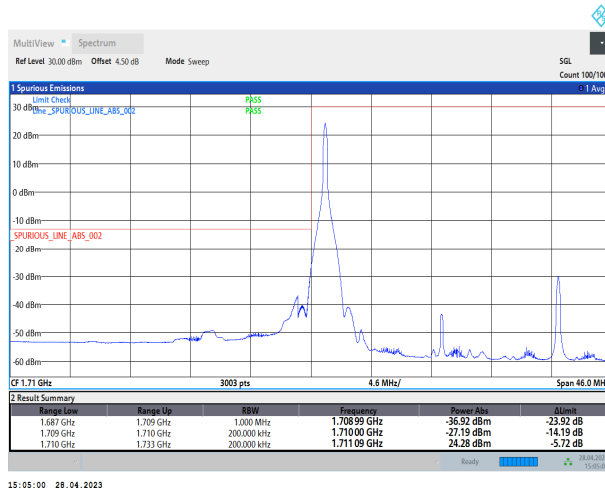
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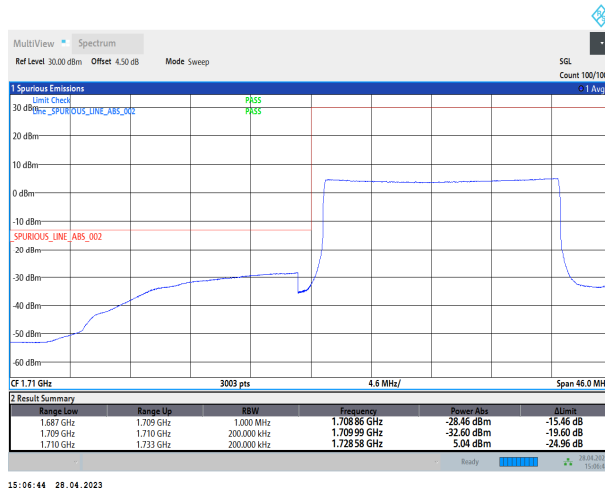
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Band4-20MHz-QPSK-20050-1RB#0



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

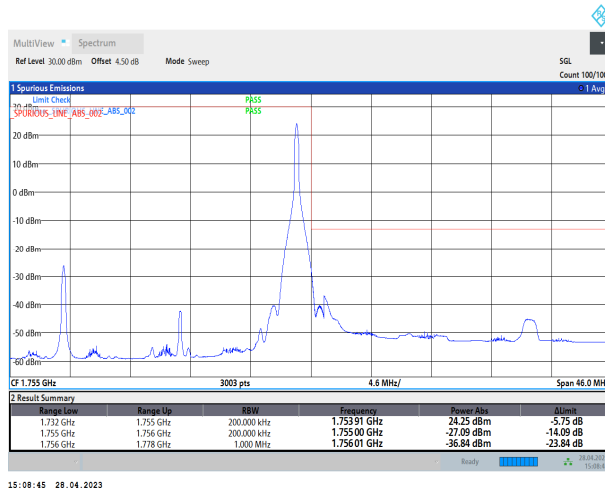


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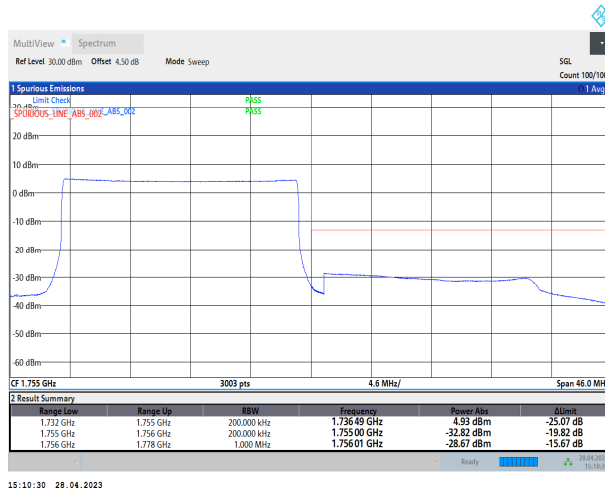
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Band4-20MHz-QPSK-20300-1RB#99



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



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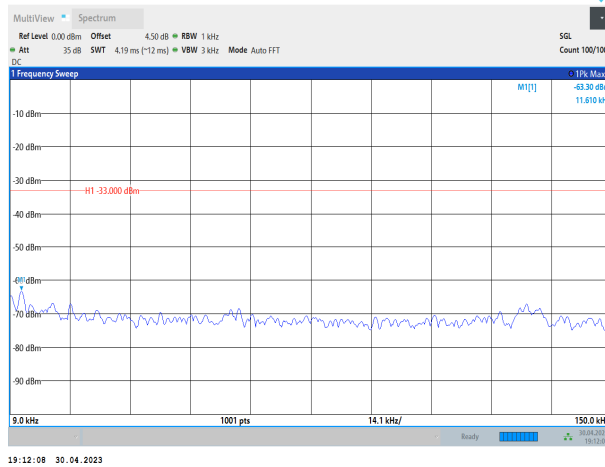
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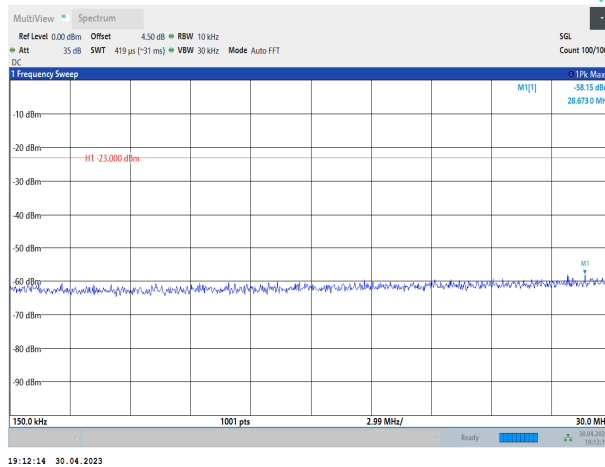
## Conducted Spurious Emission

### Test Graphs

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



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

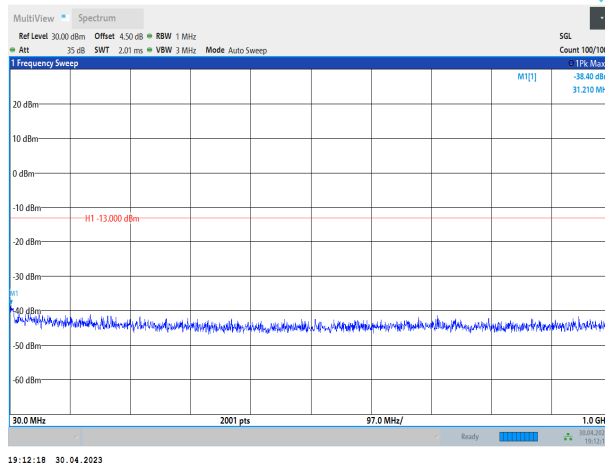


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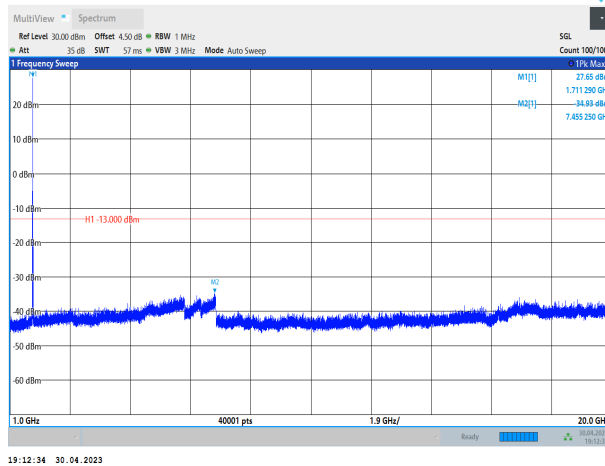
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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

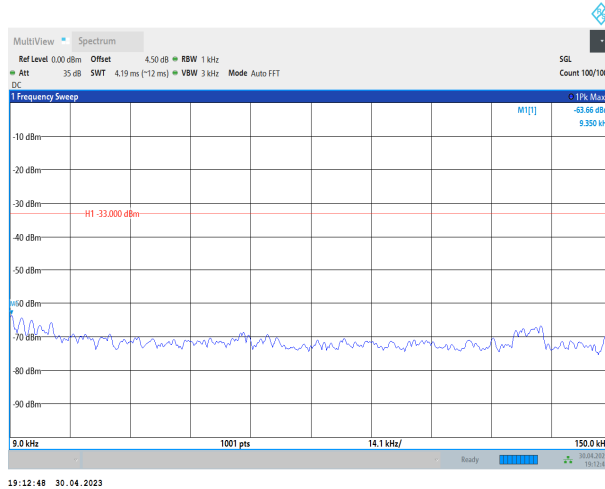


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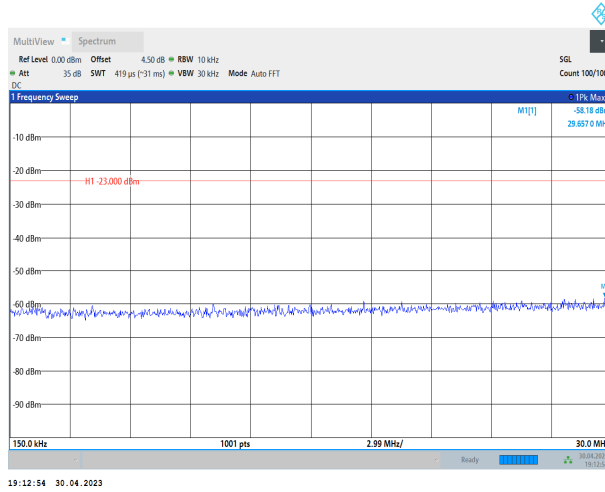
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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

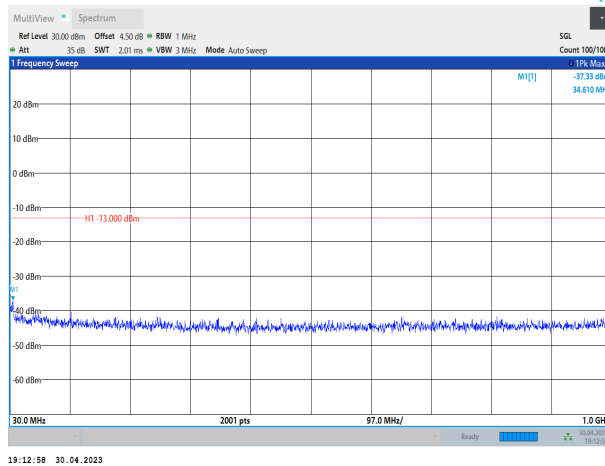


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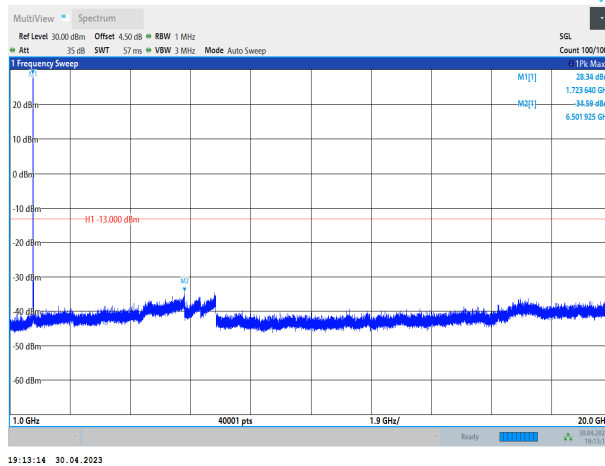
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Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz

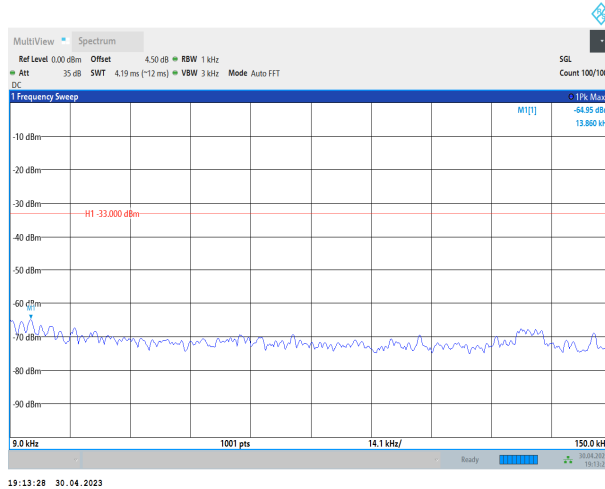


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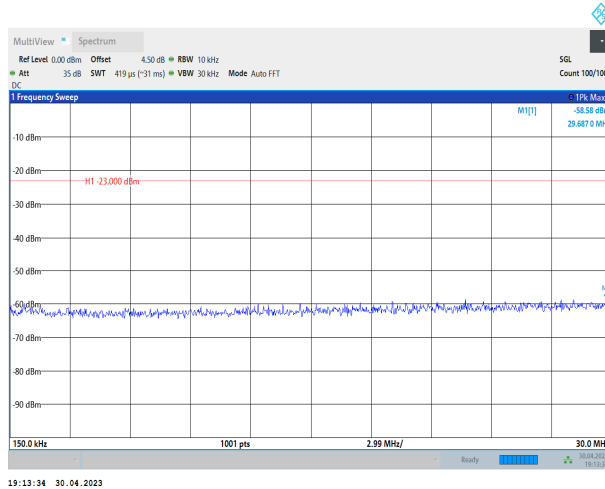
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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

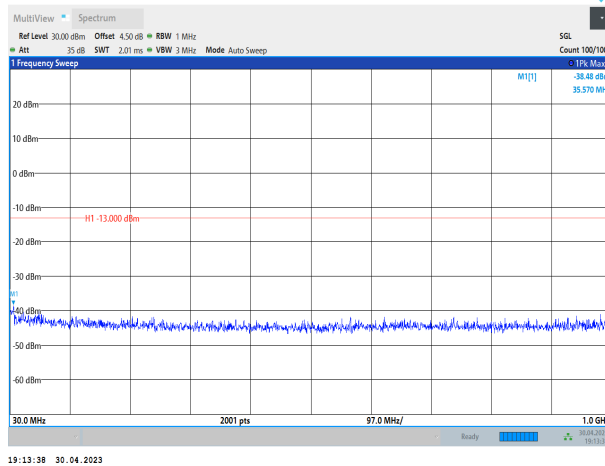


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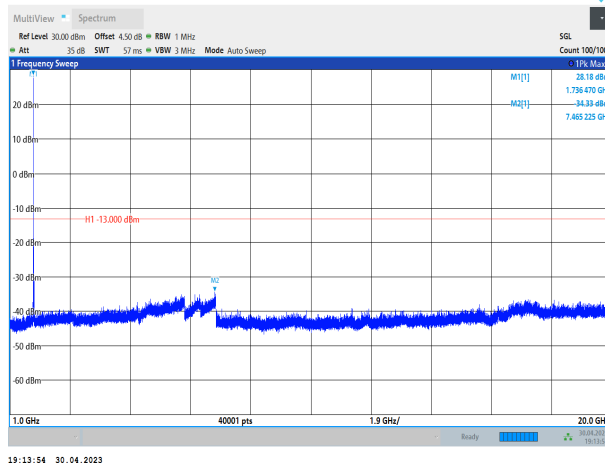
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band4\_20MHz \_ TM1

Test Channel = Low ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	46.18	-46.28	29.45	-65.91	-13.00	52.91	211	60	Horizontal
2	5133.2700	41.61	-45.34	32.95	-66.04	-13.00	53.04	136	346	Horizontal
3	6844.3600	41.27	-44.14	35.89	-62.24	-13.00	49.24	205	0	Horizontal
4	8555.4500	38.93	-41.46	37.66	-60.13	-13.00	47.13	185	29	Horizontal
5	10266.5400	36.03	-39.23	38.83	-59.63	-13.00	46.63	174	105	Horizontal
6	11977.6300	34.78	-37.51	38.95	-59.05	-13.00	46.05	196	210	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	45.84	-46.28	29.45	-66.25	-13.00	53.25	241	211	Vertical
2	5133.2700	41.32	-45.34	32.95	-66.33	-13.00	53.33	169	301	Vertical
3	6844.3600	41.50	-44.14	35.89	-62.01	-13.00	49.01	125	17	Vertical
4	8555.4500	38.96	-41.46	37.66	-60.10	-13.00	47.10	136	180	Vertical
5	10266.5400	35.93	-39.23	38.83	-59.73	-13.00	46.73	147	356	Vertical
6	11977.6300	34.24	-37.51	38.95	-59.59	-13.00	46.59	158	270	Vertical



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Test Band = LTE Band4\_20MHz \_ TM1

Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.42	-46.27	29.47	-68.64	-13.00	55.64	215	105	Horizontal
2	5170.7700	42.02	-45.31	32.97	-65.57	-13.00	52.57	136	317	Horizontal
3	6894.3600	41.02	-44.10	35.95	-62.39	-13.00	49.39	222	61	Horizontal
4	8617.9500	38.68	-41.40	37.78	-60.20	-13.00	47.20	142	357	Horizontal
5	10341.5400	36.41	-39.06	38.85	-59.06	-13.00	46.06	169	331	Horizontal
6	12065.1300	35.37	-37.44	39.02	-58.31	-13.00	45.31	182	196	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.31	-46.27	29.47	-68.75	-13.00	55.75	241	105	Vertical
2	5170.7700	41.87	-45.31	32.97	-65.72	-13.00	52.72	136	136	Vertical
3	6894.3600	40.98	-44.10	35.95	-62.43	-13.00	49.43	251	300	Vertical
4	8617.9500	38.75	-41.40	37.78	-60.13	-13.00	47.13	192	331	Vertical
5	10341.5400	36.71	-39.06	38.85	-58.76	-13.00	45.76	170	225	Vertical
6	12065.1300	35.21	-37.44	39.02	-58.47	-13.00	45.47	266	356	Vertical



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Test Band = LTE Band4\_20MHz \_ TM1

Test Channel = High ANTO

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.53	-46.27	29.50	-68.50	-13.00	55.50	211	0	Horizontal
2	5208.2700	41.99	-45.26	32.98	-65.55	-13.00	52.55	142	165	Horizontal
3	6944.3600	41.52	-43.85	36.01	-61.58	-13.00	48.58	158	1	Horizontal
4	8680.4500	39.99	-41.62	37.88	-59.01	-13.00	46.01	163	1	Horizontal
5	10416.5400	34.87	-38.97	38.88	-60.49	-13.00	47.49	256	134	Horizontal
6	12152.6300	34.58	-37.42	39.09	-59.01	-13.00	46.01	291	1	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.68	-46.27	29.50	-68.35	-13.00	55.35	214	148	Vertical
2	5208.2700	42.45	-45.26	32.98	-65.09	-13.00	52.09	136	7	Vertical
3	6944.3600	40.47	-43.85	36.01	-62.63	-13.00	49.63	258	1	Vertical
4	8680.4500	39.89	-41.62	37.88	-59.11	-13.00	46.11	148	3	Vertical
5	10416.5400	35.37	-38.97	38.88	-59.99	-13.00	46.99	175	148	Vertical
6	12152.6300	34.48	-37.42	39.09	-59.11	-13.00	46.11	126	356	Vertical



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**Test Band = LTE Band4\_20MHz \_ TM1**
**Test Channel = Low ANT4**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	44.99	-46.28	29.45	-67.10	-13.00	54.10	211	270	Horizontal
2	5133.2700	41.27	-45.34	32.95	-66.38	-13.00	53.38	142	300	Horizontal
3	6844.3600	41.37	-44.14	35.89	-62.14	-13.00	49.14	158	60	Horizontal
4	8555.4500	38.04	-41.46	37.66	-61.02	-13.00	48.02	169	120	Horizontal
5	10266.5400	35.22	-39.23	38.83	-60.44	-13.00	47.44	182	120	Horizontal
6	11977.6300	33.35	-37.51	38.95	-60.48	-13.00	47.48	143	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	45.51	-46.28	29.45	-66.58	-13.00	53.58	211	209	Vertical
2	5133.2700	40.96	-45.34	32.95	-66.69	-13.00	53.69	145	43	Vertical
3	6844.3600	41.11	-44.14	35.89	-62.40	-13.00	49.40	175	1	Vertical
4	8555.4500	37.89	-41.46	37.66	-61.17	-13.00	48.17	156	346	Vertical
5	10266.5400	35.91	-39.23	38.83	-59.75	-13.00	46.75	122	135	Vertical
6	11977.6300	33.89	-37.51	38.95	-59.94	-13.00	46.94	263	7	Vertical



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**Test Band = LTE Band4\_20MHz \_ TM1**
**Test Channel = Mid ANT4**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	43.87	-46.27	29.47	-68.19	-13.00	55.19	211	0	Horizontal
2	5170.7700	41.56	-45.31	32.97	-66.03	-13.00	53.03	147	122	Horizontal
3	6894.3600	40.71	-44.10	35.95	-62.70	-13.00	49.70	175	0	Horizontal
4	8617.9500	38.32	-41.40	37.78	-60.56	-13.00	47.56	146	0	Horizontal
5	10341.5400	35.49	-39.06	38.85	-59.98	-13.00	46.98	129	8	Horizontal
6	12065.1300	34.14	-37.44	39.02	-59.54	-13.00	46.54	183	317	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	44.64	-46.27	29.47	-67.42	-13.00	54.42	211	224	Vertical
2	5170.7700	42.20	-45.31	32.97	-65.39	-13.00	52.39	145	178	Vertical
3	6894.3600	40.71	-44.10	35.95	-62.70	-13.00	49.70	266	85	Vertical
4	8617.9500	38.83	-41.40	37.78	-60.05	-13.00	47.05	236	178	Vertical
5	10341.5400	36.39	-39.06	38.85	-59.08	-13.00	46.08	258	330	Vertical
6	12065.1300	33.77	-37.44	39.02	-59.91	-13.00	46.91	147	41	Vertical



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Test Band = LTE Band4\_20MHz \_ TM1

Test Channel = High ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	43.63	-46.27	29.50	-68.40	-13.00	55.40	148	226	Horizontal
2	5208.2700	42.27	-45.26	32.98	-65.27	-13.00	52.27	175	226	Horizontal
3	6944.3600	40.84	-43.85	36.01	-62.26	-13.00	49.26	142	120	Horizontal
4	8680.4500	38.79	-41.62	37.88	-60.21	-13.00	47.21	100	136	Horizontal
5	10416.5400	34.60	-38.97	38.88	-60.76	-13.00	47.76	136	357	Horizontal
6	12152.6300	33.51	-37.42	39.09	-60.08	-13.00	47.08	291	346	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	44.20	-46.27	29.50	-67.83	-13.00	54.83	126	226	Vertical
2	5208.2700	42.10	-45.26	32.98	-65.44	-13.00	52.44	148	151	Vertical
3	6944.3600	40.22	-43.85	36.01	-62.88	-13.00	49.88	122	1	Vertical
4	8680.4500	39.53	-41.62	37.88	-59.47	-13.00	46.47	199	60	Vertical
5	10416.5400	35.74	-38.97	38.88	-59.62	-13.00	46.62	147	346	Vertical
6	12152.6300	33.80	-37.42	39.09	-59.79	-13.00	46.79	123	151	Vertical



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Test Band = LTE 4A\_7A\_TM1

Test Channel = Low

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3310.5	44.08	-46.44	29.54	-68.08	-25.00	43.08	211	225	Horizontal
2	4266	43.70	-45.62	31.24	-65.94	-25.00	40.94	145	150	Horizontal
3	5822.25	41.87	-44.80	33.79	-64.40	-25.00	39.40	258	118	Horizontal
4	6789.75	42.04	-44.13	35.82	-61.53	-25.00	36.53	156	90	Horizontal
5	8697	39.74	-41.68	37.91	-59.29	-25.00	34.29	236	30	Horizontal
6	11280	34.10	-37.41	39.11	-59.46	-25.00	34.46	166	256	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4446.75	43.50	-45.77	31.56	-65.97	-25.00	40.97	122	0	Vertical
2	5403.75	42.70	-45.30	32.80	-65.05	-25.00	40.05	148	134	Vertical
3	6656.25	41.49	-44.05	35.55	-62.26	-25.00	37.26	186	286	Vertical
4	8408.25	39.98	-41.46	37.35	-59.40	-25.00	34.40	256	150	Vertical
5	11214	34.52	-37.39	39.11	-59.02	-25.00	34.02	239	0	Vertical
6	13602.75	32.33	-36.08	40.15	-58.86	-25.00	33.86	219	91	Vertical



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Test Band = LTE 4A\_7A\_TM1

Test Channel = Low

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3733.5	43.17	-45.64	30.09	-67.64	-25.00	42.64	211	347	Horizontal
2	5187	42.26	-45.29	32.98	-65.31	-25.00	40.31	147	317	Horizontal
3	6440.25	41.94	-44.49	34.79	-63.03	-25.00	38.03	125	243	Horizontal
4	7748.25	40.84	-42.73	36.68	-60.47	-25.00	35.47	302	183	Horizontal
5	10602	34.84	-38.46	39.06	-59.82	-25.00	34.82	199	228	Horizontal
6	12785.25	33.03	-36.81	39.60	-59.43	-25.00	34.43	180	138	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4476	42.72	-45.74	31.59	-66.69	-25.00	41.69	211	60	Vertical
2	5976	42.04	-44.86	34.08	-64.00	-25.00	39.00	145	357	Vertical
3	7269.75	41.06	-43.65	36.56	-61.29	-25.00	36.29	136	346	Vertical
4	8814	38.89	-41.25	38.09	-59.53	-25.00	34.53	259	46	Vertical
5	11142	34.32	-37.73	39.10	-59.57	-25.00	34.57	145	181	Vertical
6	13388.25	31.63	-36.38	40.14	-59.87	-25.00	34.87	128	257	Vertical



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Test Band = LTE 4A\_7A\_TM1

Test Channel = High

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4455.75	43.48	-45.76	31.57	-65.97	-25.00	40.97	211	195	Horizontal
2	5583.75	42.29	-45.10	33.00	-65.07	-25.00	40.07	148	121	Horizontal
3	6817.5	42.06	-44.16	35.86	-61.50	-25.00	36.50	126	195	Horizontal
4	7845.75	40.35	-42.54	36.83	-60.62	-25.00	35.62	256	195	Horizontal
5	10347.75	35.59	-39.05	38.85	-59.87	-25.00	34.87	230	8	Horizontal
6	11457.75	33.48	-37.34	39.05	-60.07	-25.00	35.07	129	256	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4583.25	43.13	-45.68	31.69	-66.11	-25.00	41.11	147	255	Vertical
2	5652	41.99	-44.96	33.21	-65.02	-25.00	40.02	158	270	Vertical
3	6687.75	41.22	-43.88	35.62	-62.30	-25.00	37.30	196	346	Vertical
4	8031.75	39.42	-42.04	37.02	-60.85	-25.00	35.85	185	240	Vertical
5	10089	35.78	-39.13	38.63	-59.98	-25.00	34.98	142	90	Vertical
6	12154.5	32.58	-37.42	39.09	-61.01	-25.00	36.01	173	135	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.50	-0.000866	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-1.60	-0.000924	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.50	-0.000289	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.20	-0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	1.00	0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.90	-0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.20	-0.000115	PASS

---End of Attachment---



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