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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.66	22.34	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.82	22.5	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.69	22.37	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.84	21.52	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.74	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.87	22.55	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.64	22.32	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.83	21.51	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.73	22.41	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.74	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.43	22.11	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.69	21.37	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.98	21.66	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.11	21.79	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.85	21.53	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.91	20.59	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.03	21.71	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.03	21.71	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.86	21.54	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.98	20.66	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.89	21.57	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.7	21.38	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.58	21.26	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.94	20.62	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.94	20.62	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.04	20.72	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.89	20.57	30.00	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	19.84	19.52	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.99	20.67	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.12	20.8	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.87	20.55	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.89	19.57	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.86	20.54	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.93	20.61	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.9	20.58	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.88	19.56	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.79	22.47	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.83	22.51	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.84	22.52	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.79	21.47	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.87	22.55	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.64	22.32	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.51	22.19	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.76	21.44	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.8	22.48	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.37	22.05	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.43	22.11	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.68	21.36	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.01	21.69	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.02	21.7	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.07	21.75	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.74	20.42	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.99	21.67	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.94	21.62	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.73	21.41	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.93	20.61	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.76	21.44	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.78	21.46	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.67	21.35	30.00	PASS



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Band4	3MHz	64QAM	19965	1RB#0	20.99	20.67	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.04	20.72	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.02	20.7	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.9	19.58	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.07	20.75	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.96	20.64	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.85	20.53	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.92	19.6	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.87	20.55	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.79	20.47	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.97	20.65	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.91	19.59	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.6	22.28	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.93	22.61	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.64	22.32	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.84	21.52	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.7	22.38	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.94	22.62	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.57	22.25	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.86	21.54	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.63	22.31	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.6	22.28	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.25	21.93	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.85	21.53	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.81	21.49	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.16	21.84	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.93	21.61	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.81	20.49	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.94	21.62	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.83	21.51	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.51	21.19	30.00	PASS



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Band4	5MHz	16QAM	20375	1RB#0	21.64	21.32	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.83	21.51	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.55	21.23	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.66	20.34	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.85	20.53	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.06	20.74	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.85	20.53	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.81	19.49	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.9	20.58	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.13	20.81	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.89	20.57	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.87	19.55	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.84	20.52	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.06	20.74	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.81	20.49	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.88	19.56	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.68	22.36	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.89	22.57	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.76	22.44	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.91	21.59	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.76	22.44	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.94	22.62	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.6	22.28	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.73	21.41	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.73	22.41	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.51	22.19	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.41	22.09	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.73	21.41	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.96	21.64	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.07	21.75	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.96	21.64	30.00	PASS



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Band4	10MHz	16QAM	20175	1RB#0	21.99	21.67	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.02	21.7	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.78	21.46	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.86	20.54	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.68	21.36	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.75	21.43	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.62	21.3	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.8	20.48	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.88	20.56	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21	20.68	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.98	20.66	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.86	19.54	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.9	20.58	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.14	20.82	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.87	20.55	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.93	19.61	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.9	20.58	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.78	20.46	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.73	20.41	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.92	19.6	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.48	22.16	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.76	22.44	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.6	22.28	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.81	21.49	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.59	22.27	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.82	22.5	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.51	22.19	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.8	21.48	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.52	22.2	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.38	22.06	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.2	21.88	30.00	PASS



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Band4	15MHz	QPSK	20325	75RB#0	21.76	21.44	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.83	21.51	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.98	21.66	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.91	21.59	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.78	20.46	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.87	21.55	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.92	21.6	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.63	21.31	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.79	20.47	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.52	21.2	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.66	21.34	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.54	21.22	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.73	20.41	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.71	20.39	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.03	20.71	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.78	20.46	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.77	19.45	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.79	20.47	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.05	20.73	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.86	20.54	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.83	19.51	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.59	20.27	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.76	20.44	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.57	20.25	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.84	19.52	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.35	22.03	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.88	22.56	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.52	22.2	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.78	21.46	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.42	22.1	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.88	22.56	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.55	22.23	30.00	PASS



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Band4	20MHz	QPSK	20175	100RB#0	21.82	21.5	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.45	22.13	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.56	22.24	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.13	21.81	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.67	21.35	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.7	21.38	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.02	21.7	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.82	21.5	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.74	20.42	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.55	21.23	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.16	21.84	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.61	21.29	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.8	20.48	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.55	21.23	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.64	21.32	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.45	21.13	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.67	20.35	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.66	20.34	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.99	20.67	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.7	20.38	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.73	19.41	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.61	20.29	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.04	20.72	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.81	20.49	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.81	19.49	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.64	20.32	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.81	20.49	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.66	20.34	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.85	19.53	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	5.04	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.08	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.06	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.82	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.90	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.88	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.18	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.32	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.28	13	PASS



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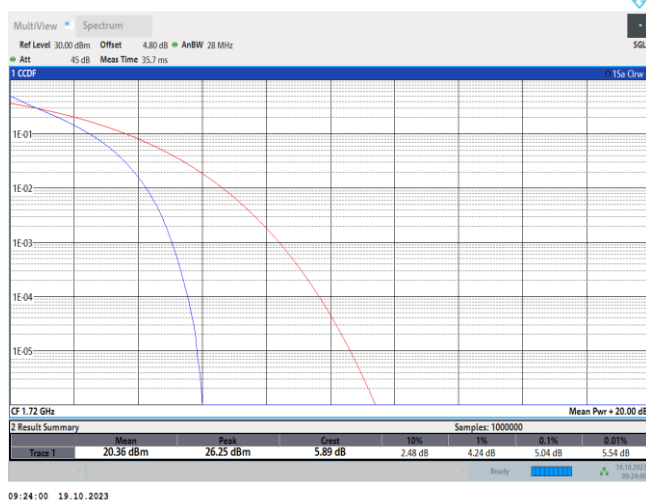
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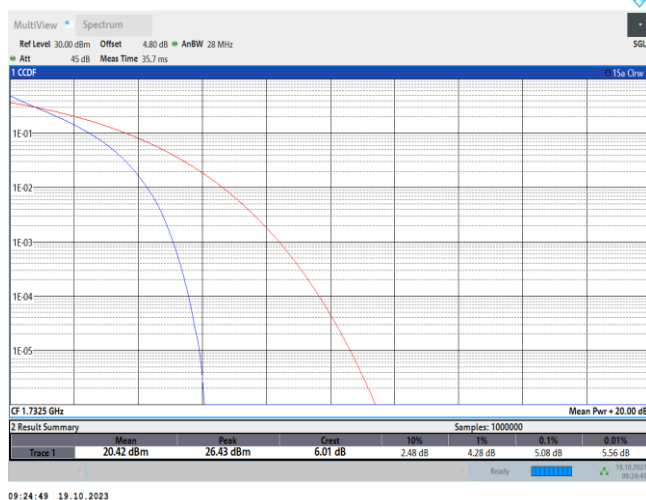
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Test Graphs

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



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



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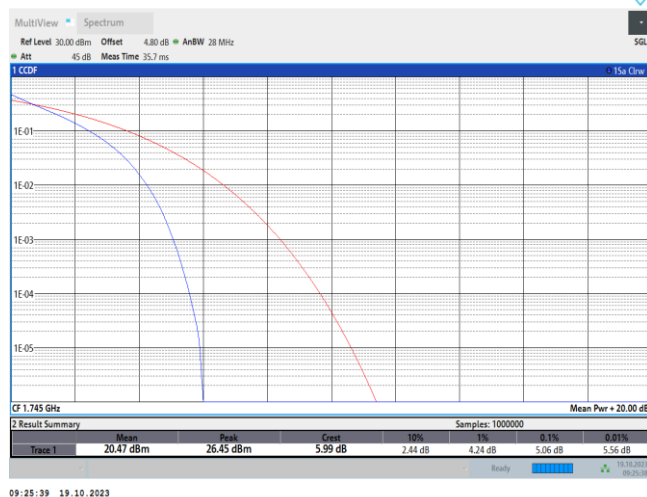
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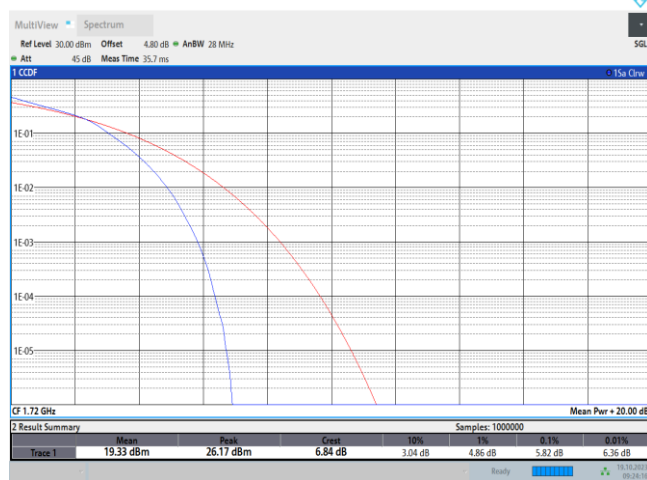
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Band4-20MHz-QPSK-20300-100RB#0



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



09:24:17 19.10.2023



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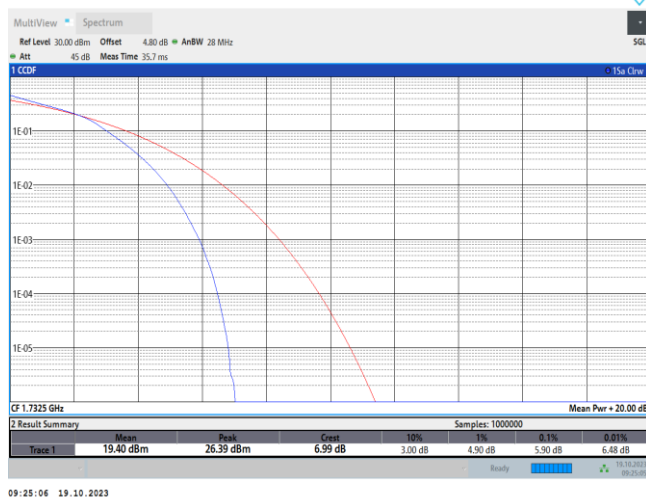
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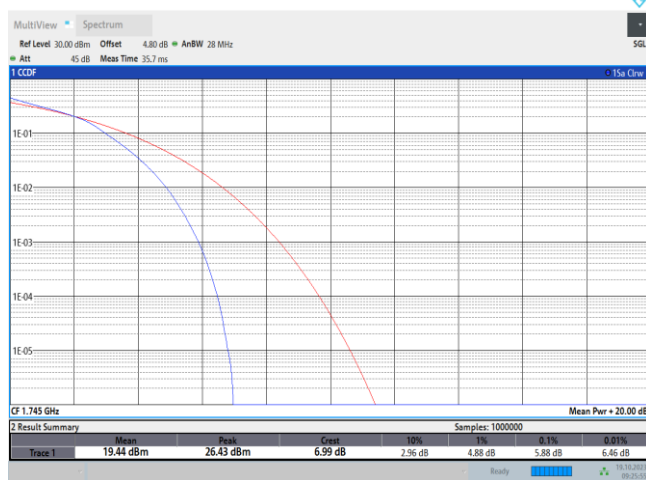
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Band4-20MHz-16QAM-20175-100RB#0



09:25:06 19.10.2023

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



09:25:55 19.10.2023



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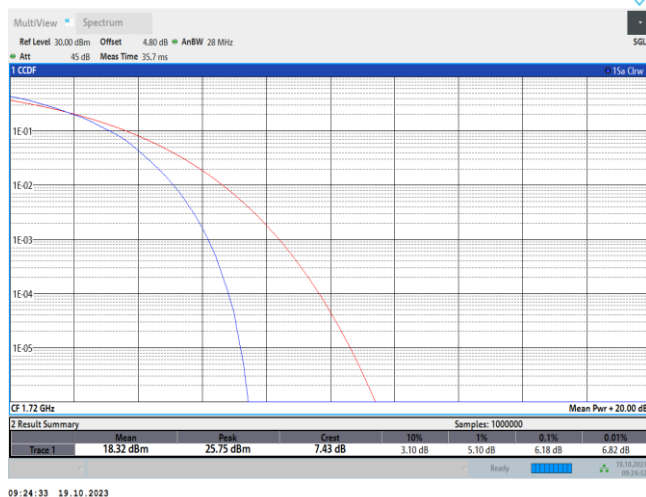
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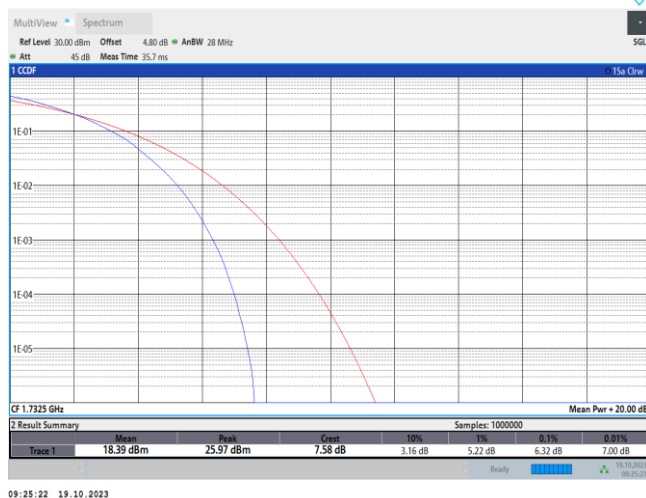
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Band4-20MHz-64QAM-20050-100RB#0



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



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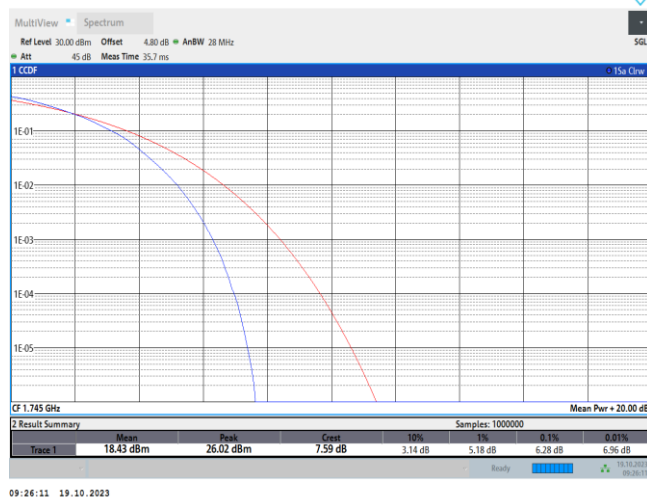
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Band4-20MHz-64QAM-20300-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	20175	6RB#0	1.084	1.28	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.097	1.30	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.684	2.90	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.90	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.68	2.89	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.82	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.461	4.86	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.475	4.83	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.932	9.60	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.918	9.56	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.928	9.56	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.464	14.61	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.455	14.61	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.432	14.67	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.93	19.40	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.873	19.24	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.865	19.28	PASS



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Test Graphs

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



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

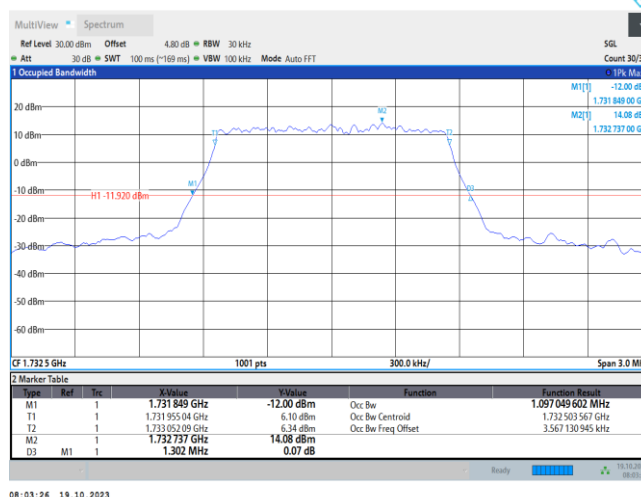


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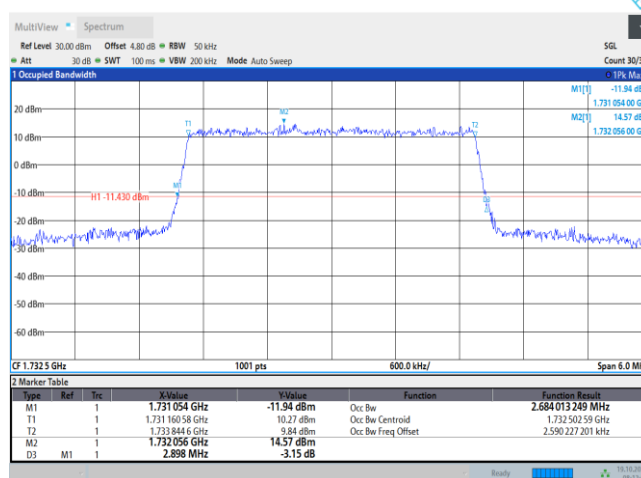
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Band4-1.4MHz-64QAM-20175-6RB#0



08:03:26 19.10.2023

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



08:12:57 19.10.2023



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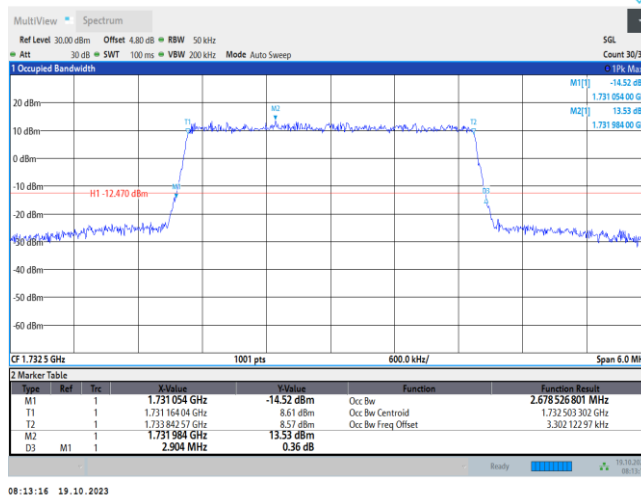
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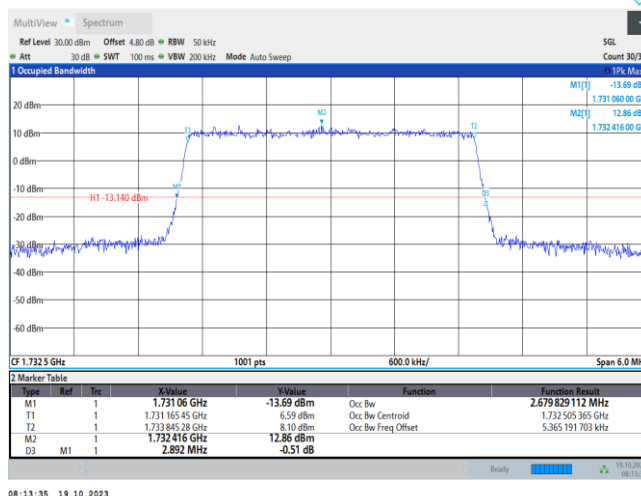
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Band4-3MHz-64QAM-20175-15RB#0

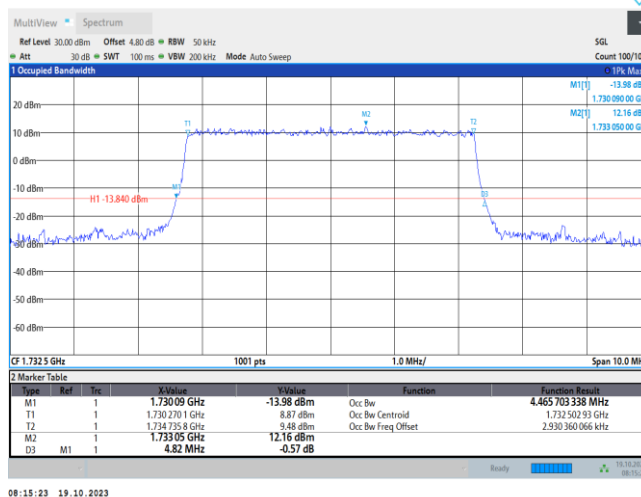


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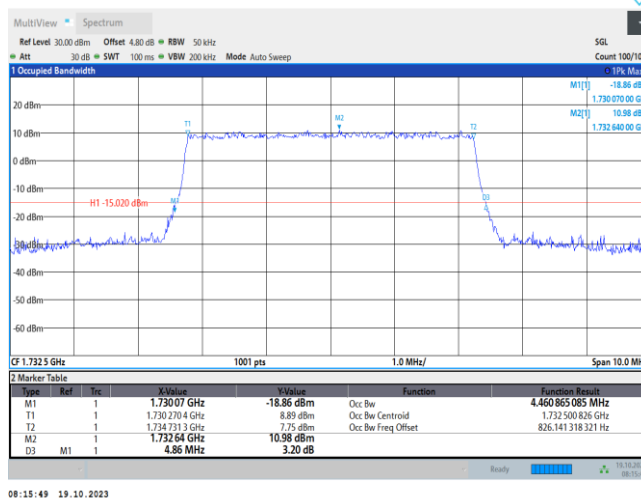
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Band4-5MHz-QPSK-20175-25RB#0



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



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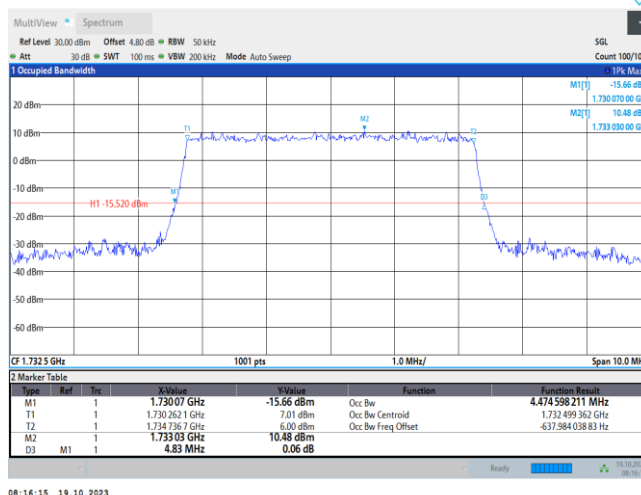
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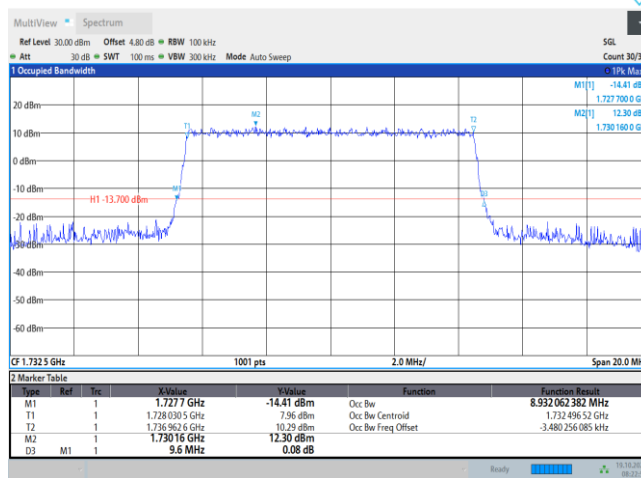
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Band4-5MHz-64QAM-20175-25RB#0



08:16:15 19.10.2023

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



08:22:57 19.10.2023



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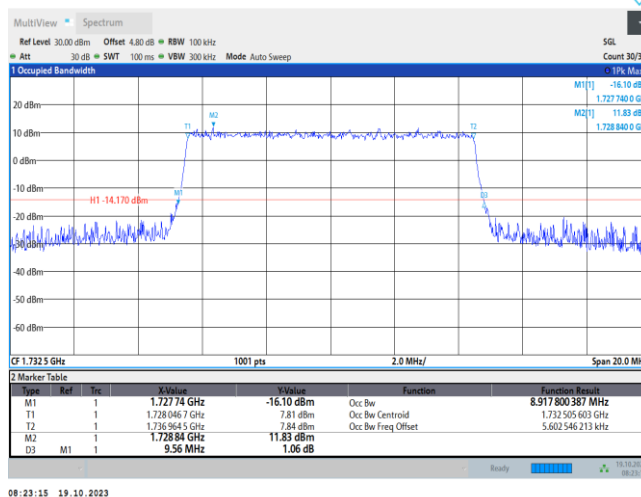
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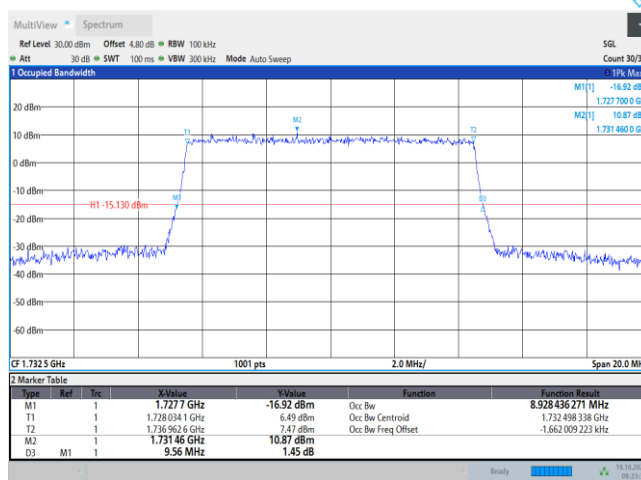
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Band4-10MHz-16QAM-20175-50RB#0



08:23:15 19.10.2023

Band4-10MHz-64QAM-20175-50RB#0



08:23:34 19.10.2023



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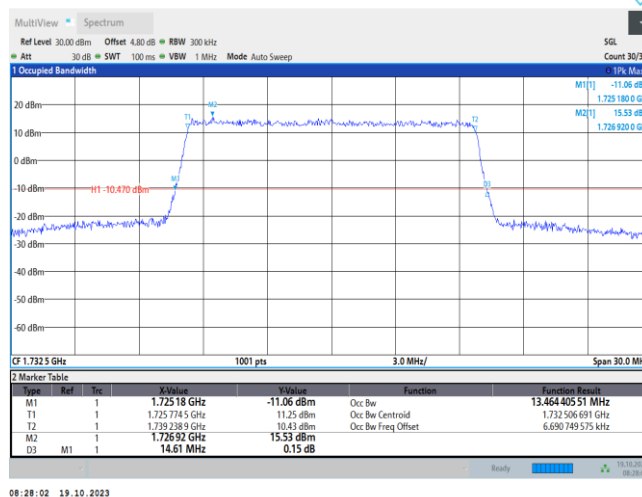
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Band4-15MHz-QPSK-20175-75RB#0



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

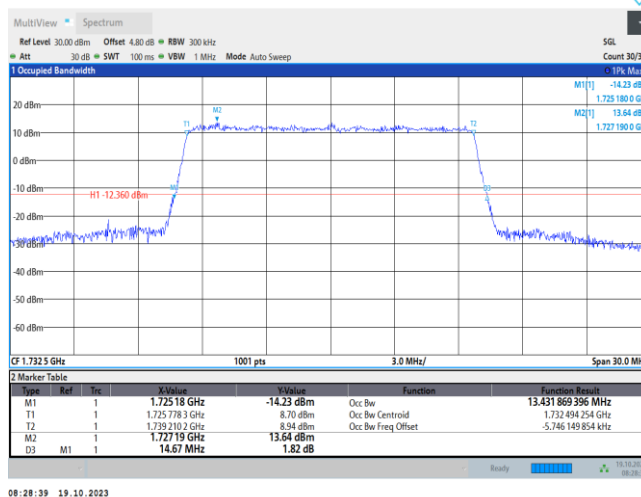


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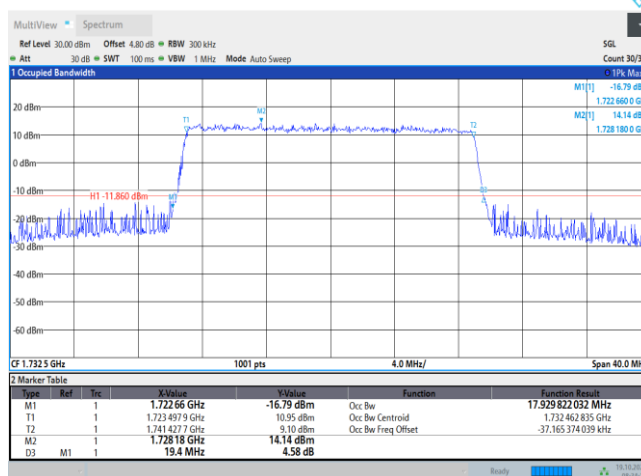
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Band4-15MHz-64QAM-20175-75RB#0



08:28:39 19.10.2023

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



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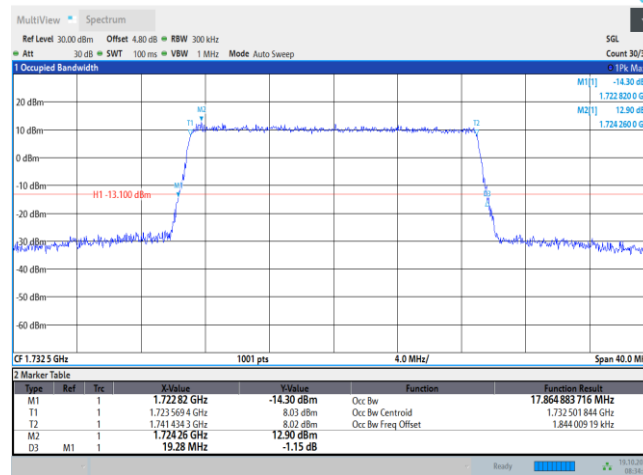
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Band4-20MHz-16QAM-20175-100RB#0



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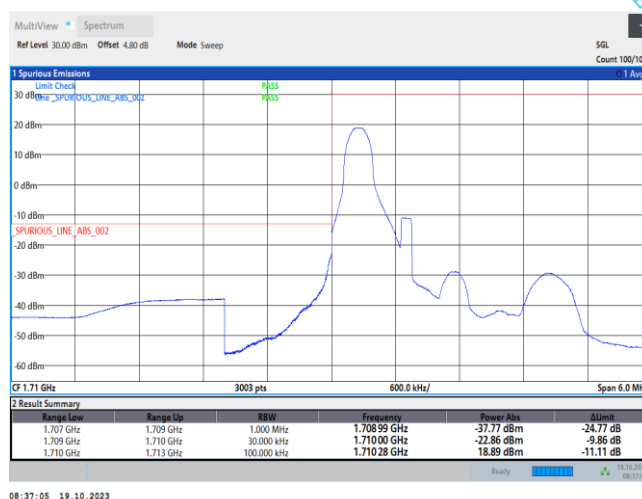
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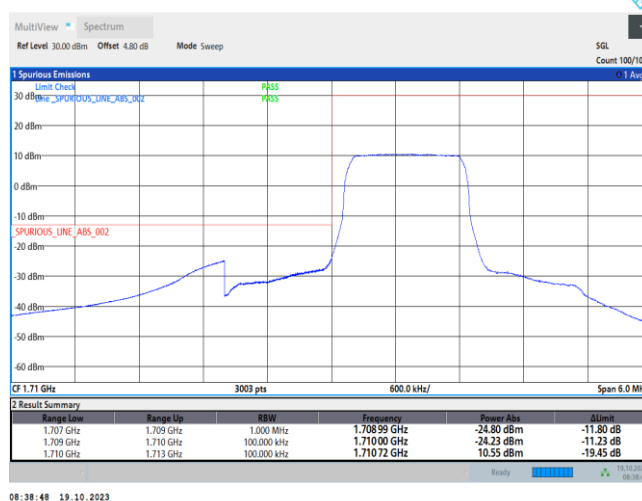
Band Edge

Test Graphs

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



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



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



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



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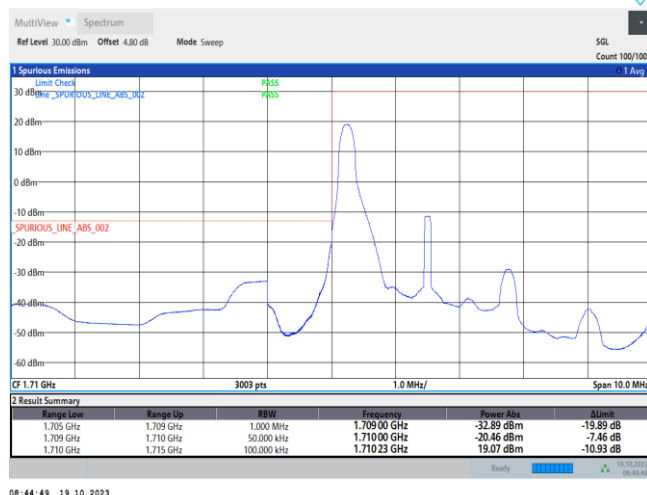
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Band4-3MHz-QPSK-19965-1RB#0



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



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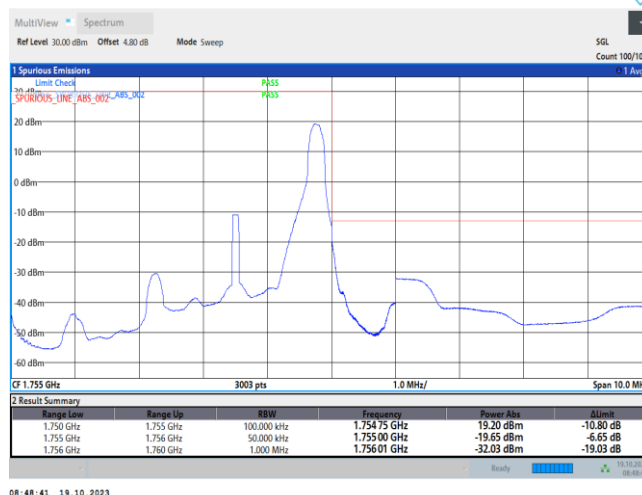
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Band4-3MHz-QPSK-20385-1RB#14



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



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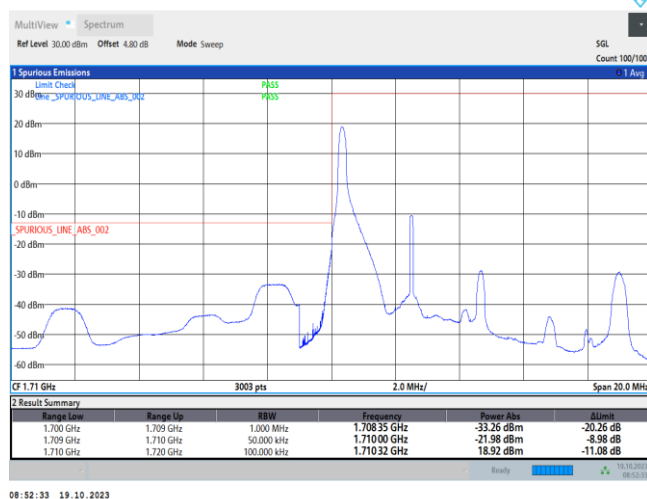
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Band4-5MHz-QPSK-19975-25RB#0



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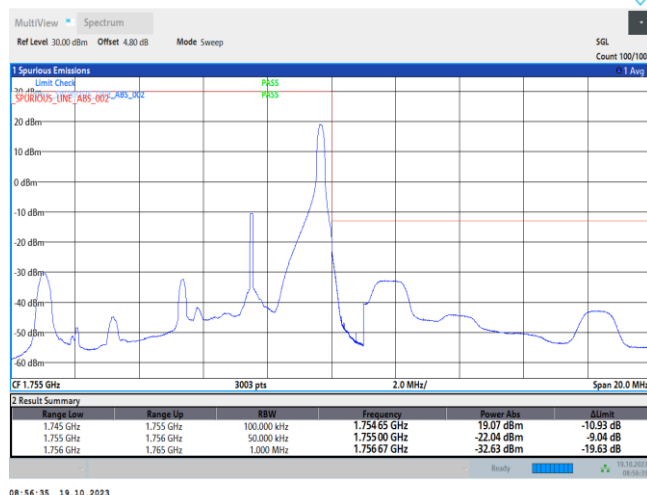
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Band4-5MHz-QPSK-20375-1RB#24



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



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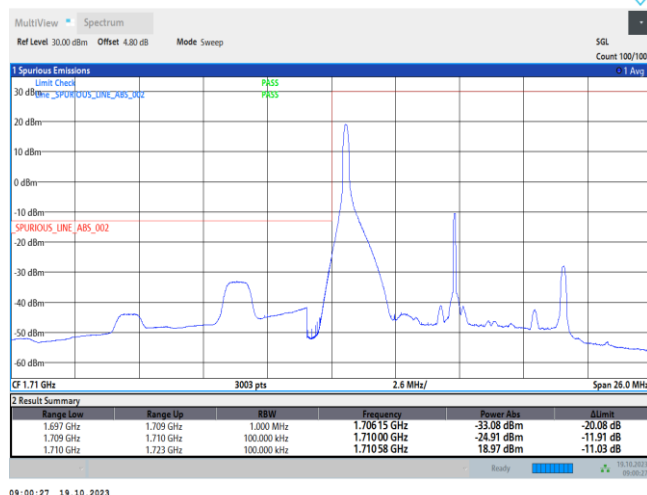
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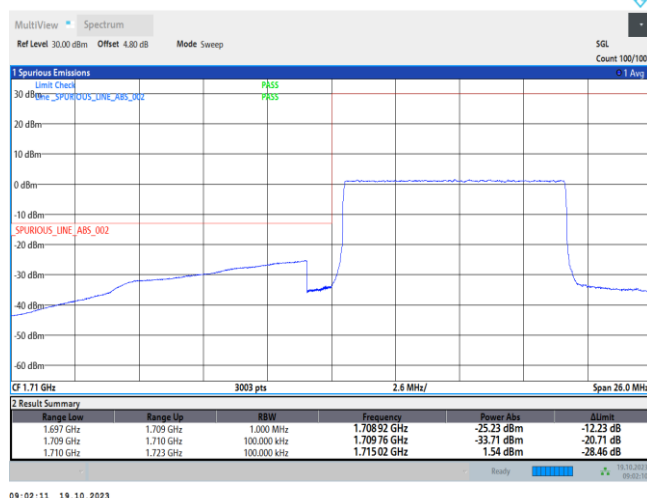
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Band4-10MHz-QPSK-20000-1RB#0



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



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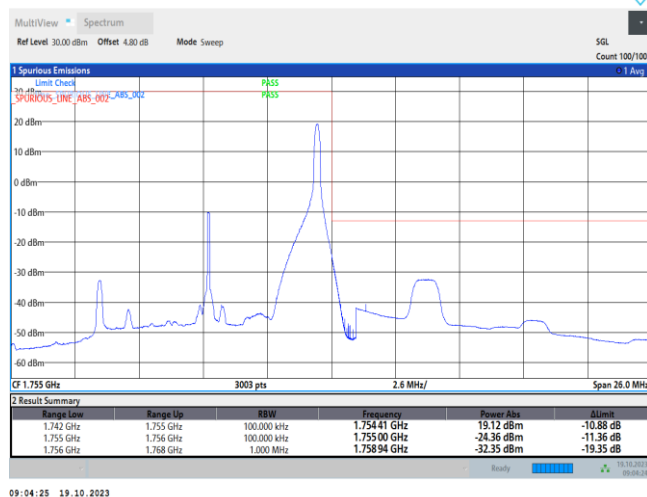
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Band4-10MHz-QPSK-20350-1RB#49



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



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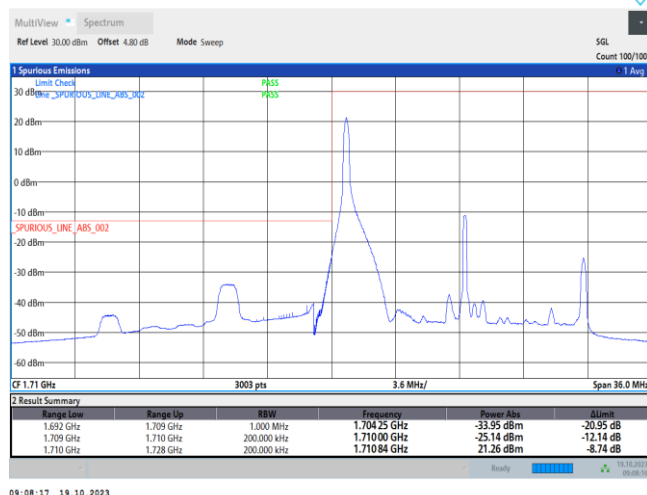
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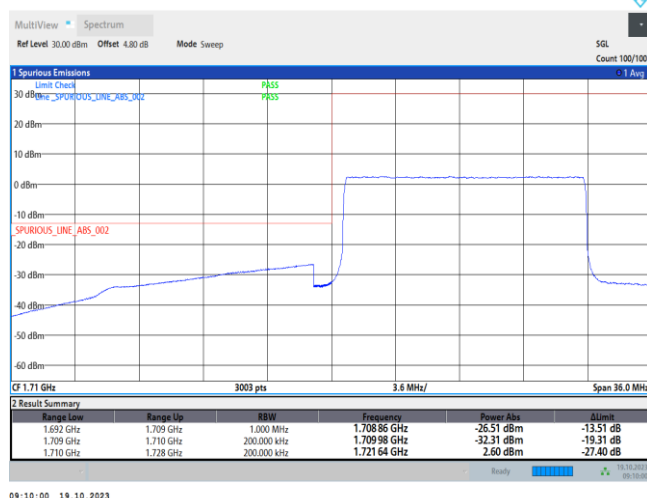
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Band4-15MHz-QPSK-20025-1RB#0



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



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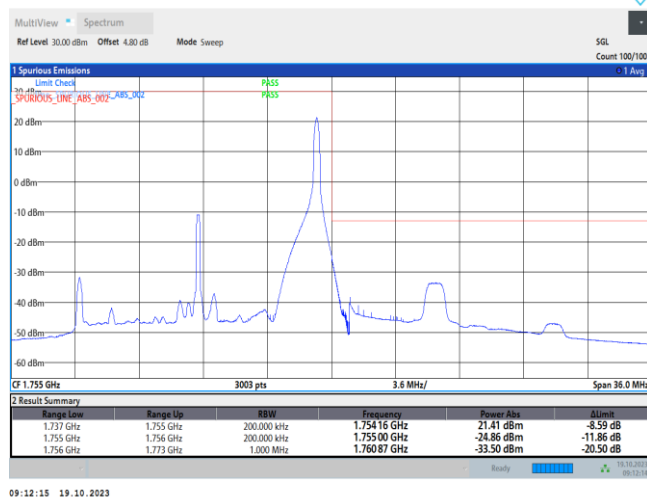
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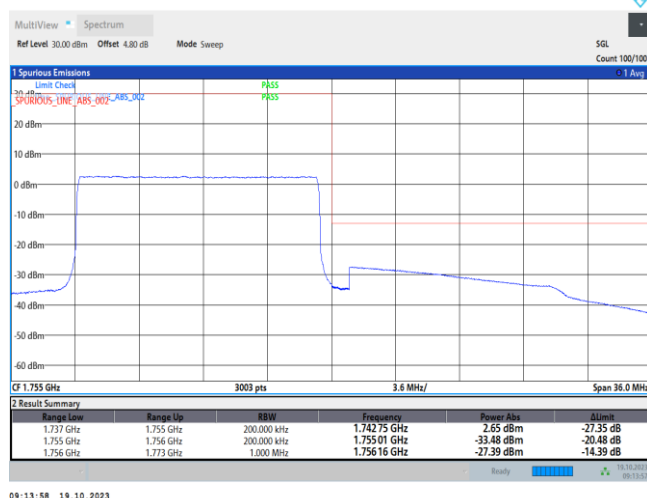
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Band4-15MHz-QPSK-20325-75RB#0



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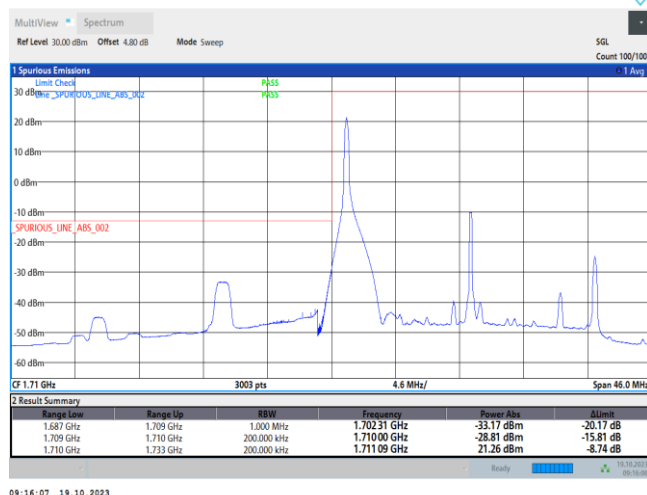
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Band4-20MHz-QPSK-20050-1RB#0



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



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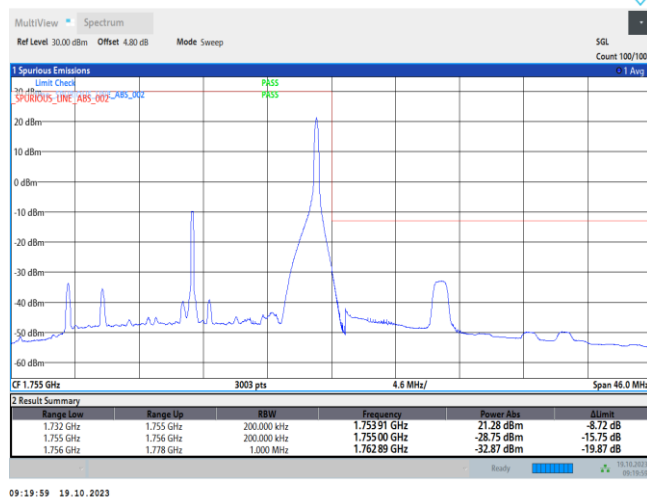
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Band4-20MHz-QPSK-20300-1RB#99



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



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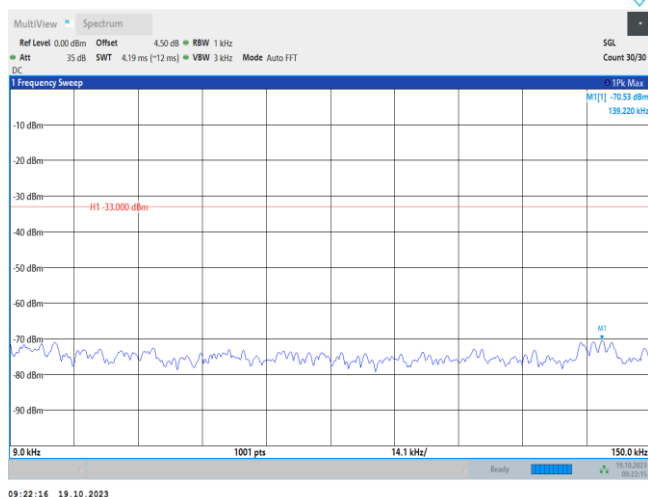
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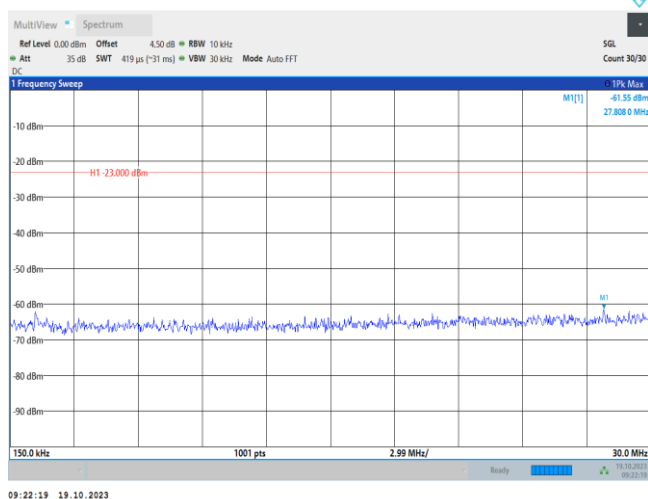
Conducted Spurious Emission

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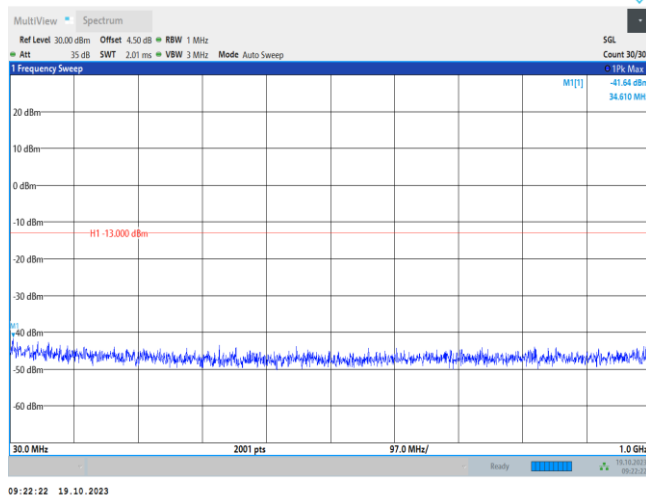
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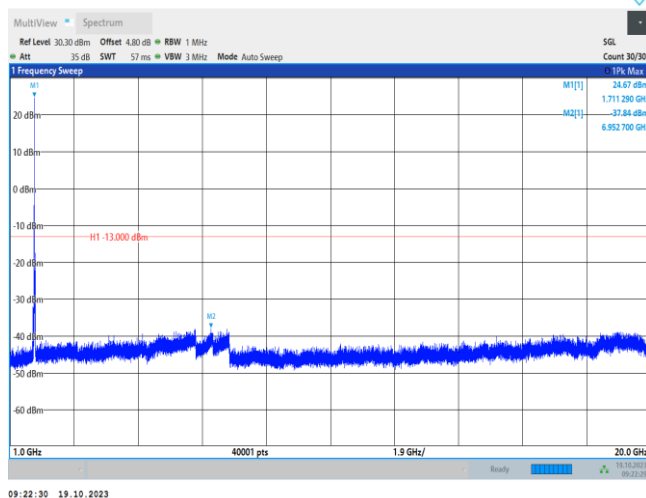
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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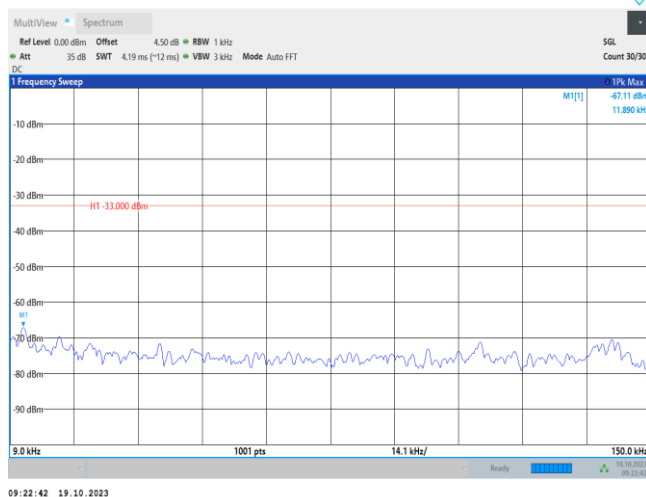
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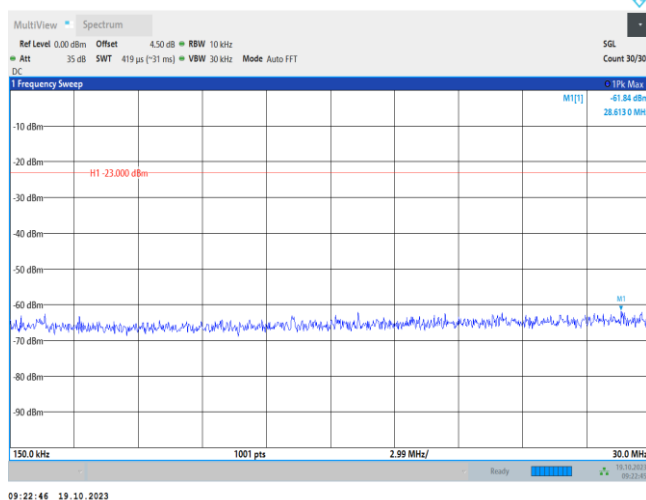
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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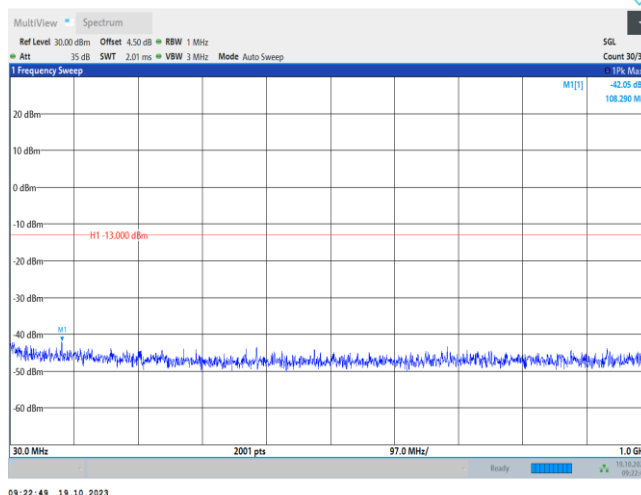
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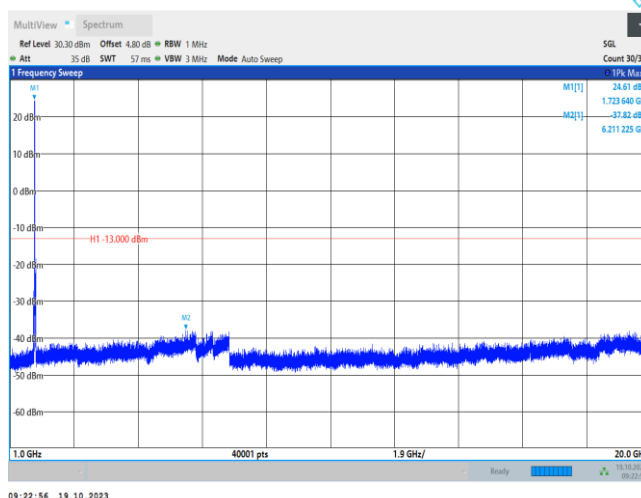
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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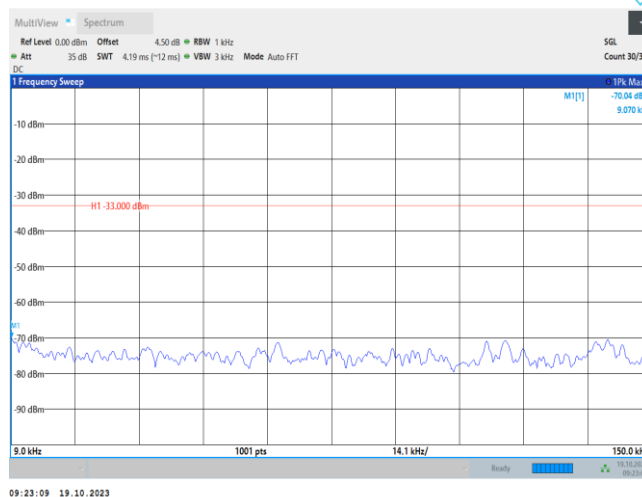
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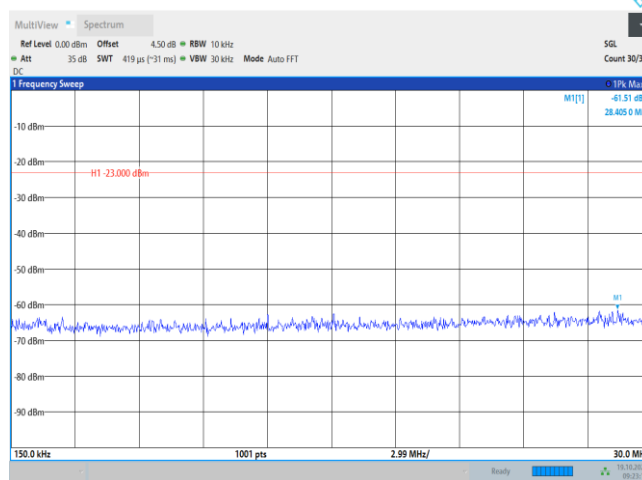
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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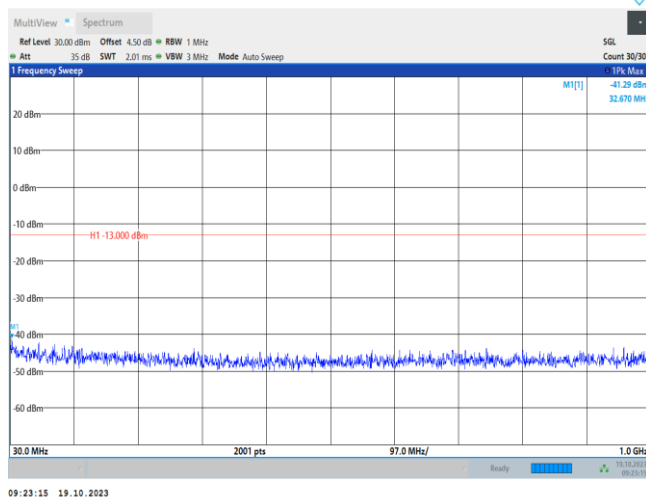
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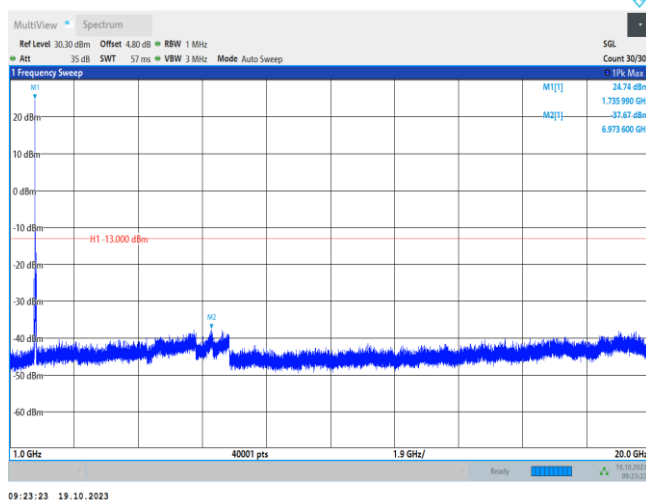
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Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band4_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	44.25	-46.28	28.55	-68.73	-13.00	55.73	Horizontal
2	5133.2700	46.41	-45.34	31.72	-62.47	-13.00	49.47	Horizontal
3	6844.3600	41.00	-44.14	34.92	-63.48	-13.00	50.48	Horizontal
4	8555.4500	35.05	-41.46	36.52	-65.15	-13.00	52.15	Horizontal
5	10266.5400	30.31	-39.23	38.33	-65.84	-13.00	52.84	Horizontal
6	11977.6300	26.23	-37.51	38.80	-67.75	-13.00	54.75	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	48.08	-46.28	28.55	-64.90	-13.00	51.90	Vertical
2	5133.2700	48.11	-45.34	31.72	-60.77	-13.00	47.77	Vertical
3	6844.3600	42.13	-44.14	34.92	-62.35	-13.00	49.35	Vertical
4	8555.4500	35.67	-41.46	36.52	-64.53	-13.00	51.53	Vertical
5	10266.5400	30.07	-39.23	38.33	-66.08	-13.00	53.08	Vertical
6	11977.6300	26.25	-37.51	38.80	-67.73	-13.00	54.73	Vertical



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Test Band = LTE Band4_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	43.78	-46.27	28.57	-69.18	-13.00	56.18	Horizontal
2	5170.7700	47.73	-45.31	31.81	-61.02	-13.00	48.02	Horizontal
3	6894.3600	39.29	-44.10	35.01	-65.06	-13.00	52.06	Horizontal
4	8617.9500	35.01	-41.40	36.49	-65.15	-13.00	52.15	Horizontal
5	10341.5400	31.03	-39.06	38.37	-64.92	-13.00	51.92	Horizontal
6	12065.1300	27.03	-37.44	38.82	-66.85	-13.00	53.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	45.39	-46.27	28.57	-67.57	-13.00	54.57	Vertical
2	5170.7700	43.94	-45.31	31.81	-64.81	-13.00	51.81	Vertical
3	6894.3600	40.72	-44.10	35.01	-63.63	-13.00	50.63	Vertical
4	8617.9500	35.75	-41.40	36.49	-64.41	-13.00	51.41	Vertical
5	10341.5400	31.48	-39.06	38.37	-64.47	-13.00	51.47	Vertical
6	12065.1300	27.01	-37.44	38.82	-66.87	-13.00	53.87	Vertical



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Test Band = LTE Band4_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	47.38	-46.27	28.58	-65.56	-13.00	52.56	Horizontal
2	5208.2700	47.39	-45.26	31.90	-61.23	-13.00	48.23	Horizontal
3	6944.3600	38.91	-43.85	35.10	-65.10	-13.00	52.10	Horizontal
4	8680.4500	35.37	-41.62	36.46	-65.05	-13.00	52.05	Horizontal
5	10416.5400	30.18	-38.97	38.41	-65.65	-13.00	52.65	Horizontal
6	12152.6300	27.31	-37.42	38.85	-66.52	-13.00	53.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	48.09	-46.27	28.58	-64.85	-13.00	51.85	Vertical
2	5208.2700	49.24	-45.26	31.90	-59.38	-13.00	46.38	Vertical
3	6944.3600	38.58	-43.85	35.10	-65.43	-13.00	52.43	Vertical
4	8680.4500	35.93	-41.62	36.46	-64.49	-13.00	51.49	Vertical
5	10416.5400	30.47	-38.97	38.41	-65.36	-13.00	52.36	Vertical
6	12152.6300	27.47	-37.42	38.85	-66.36	-13.00	53.36	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.90	-0.001097	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-7.00	-0.004040	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-6.90	-0.003983	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	4.90	0.002828	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	0.80	0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-10.70	-0.006176	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-8.20	-0.004733	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.50	-0.001443	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	3.50	0.002020	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-8.60	-0.004964	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-4.50	-0.002597	PASS

---End of Attachment---



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