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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.21	23.51	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.41	23.71	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.34	23.64	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.32	22.62	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.3	23.6	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.37	23.67	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.4	23.7	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.45	22.75	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.28	23.58	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.37	23.67	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.36	23.66	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.4	22.7	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.57	22.87	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.69	22.99	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.69	22.99	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.44	21.74	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.58	22.88	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.74	23.04	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.8	23.1	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.59	21.89	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.56	22.86	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.62	22.92	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.63	22.93	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.49	21.79	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.57	21.87	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.66	21.96	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.69	21.99	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.38	20.68	30	PASS



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Band4	1.4MHz	64QAM	20175	1RB#0	21.62	21.92	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.62	21.92	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.61	21.91	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.4	20.7	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.52	21.82	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.65	21.95	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.56	21.86	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.43	20.73	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.25	23.55	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.46	23.76	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.35	23.65	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.47	22.77	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.38	23.68	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.54	23.84	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.47	23.77	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.54	22.84	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.31	23.61	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.41	23.71	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.41	23.71	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.42	22.72	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.59	22.89	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.75	23.05	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.78	23.08	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.5	21.8	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.72	23.02	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.84	23.14	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.89	23.19	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.58	21.88	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.61	22.91	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.8	23.1	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.7	23	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.47	21.77	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.62	21.92	30	PASS



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Band4	3MHz	64QAM	19965	1RB#8	21.79	22.09	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.67	21.97	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.51	20.81	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.61	21.91	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.8	22.1	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.67	21.97	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.61	20.91	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.61	21.91	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.79	22.09	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.7	22	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.46	20.76	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.3	23.6	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.45	23.75	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.43	23.73	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.47	22.77	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.36	23.66	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.44	23.74	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.48	23.78	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.51	22.81	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.35	23.65	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.53	23.83	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.41	23.71	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.5	22.8	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.68	22.98	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.68	22.98	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.76	23.06	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.46	21.76	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.62	22.92	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.78	23.08	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.78	23.08	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.53	21.83	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.69	22.99	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.77	23.07	30	PASS



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Band4	5MHz	16QAM	20375	1RB#24	22.8	23.1	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.47	21.77	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.65	21.95	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.64	21.94	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.87	22.17	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.44	20.74	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.65	21.95	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.67	21.97	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.7	22	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.51	20.81	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.8	22.1	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.63	21.93	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.72	22.02	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.38	20.68	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.29	23.59	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.39	23.69	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.48	23.78	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.49	22.79	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.35	23.65	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.32	23.62	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.52	23.82	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.62	22.92	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.58	23.88	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.44	23.74	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.47	23.77	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.4	22.7	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.86	23.16	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.7	23	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.75	23.05	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.46	21.76	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.91	23.21	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.75	23.05	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.77	23.07	30	PASS



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Band4	10MHz	16QAM	20175	50RB#0	21.51	21.81	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.87	23.17	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.68	22.98	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.81	23.11	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.48	21.78	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.54	21.84	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.65	21.95	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.64	21.94	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.57	20.87	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.62	21.92	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.58	21.88	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.68	21.98	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.55	20.85	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.47	21.77	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.7	22	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.62	21.92	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.38	20.68	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.36	23.66	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.3	23.6	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.41	23.71	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.5	22.8	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.38	23.68	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.38	23.68	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.27	23.57	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.48	22.78	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.4	23.7	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.39	23.69	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.38	23.68	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.46	22.76	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.77	23.07	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.65	22.95	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.71	23.01	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.51	21.81	30	PASS



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Band4	15MHz	16QAM	20175	1RB#0	22.68	22.98	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.59	22.89	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.75	23.05	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.53	21.83	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.85	23.15	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.48	22.78	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.72	23.02	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.46	21.76	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.73	22.03	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.61	21.91	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.72	22.02	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.52	20.82	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.64	21.94	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.65	21.95	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.68	21.98	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.42	20.72	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.54	21.84	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.59	21.89	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.61	21.91	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.39	20.69	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.31	23.61	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.37	23.67	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.31	23.61	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.53	22.83	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.43	23.73	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.34	23.64	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.4	23.7	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.51	22.81	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.28	23.58	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.23	23.53	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.4	23.7	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.44	22.74	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.76	23.06	30	PASS



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Band4	20MHz	16QAM	20050	1RB#49	22.65	22.95	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.7	23	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.48	21.78	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.78	23.08	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.68	22.98	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.83	23.13	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.47	21.77	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.76	23.06	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.72	23.02	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.67	22.97	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.51	21.81	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.43	21.73	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.6	21.9	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.68	21.98	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.58	20.88	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.59	21.89	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.62	21.92	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.73	22.03	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.51	20.81	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.69	21.99	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.65	21.95	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.64	21.94	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.49	20.79	30	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	5.20	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.42	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.22	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.04	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.16	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.96	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.50	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.70	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.56	13	PASS



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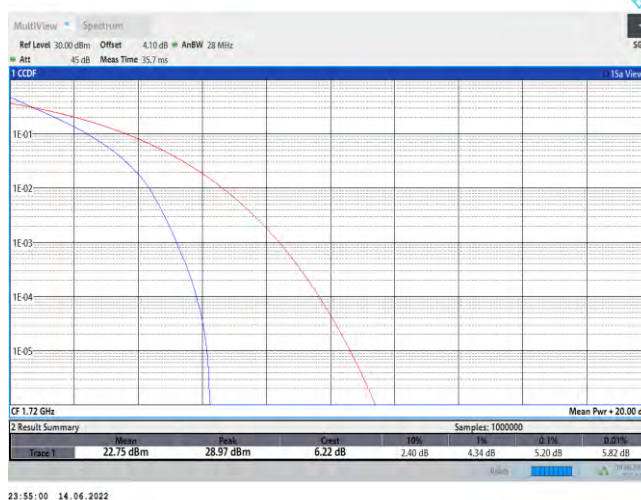
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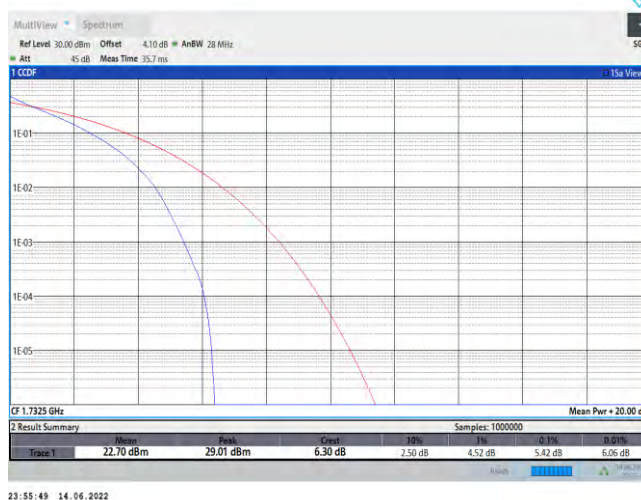
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Test Graphs

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



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



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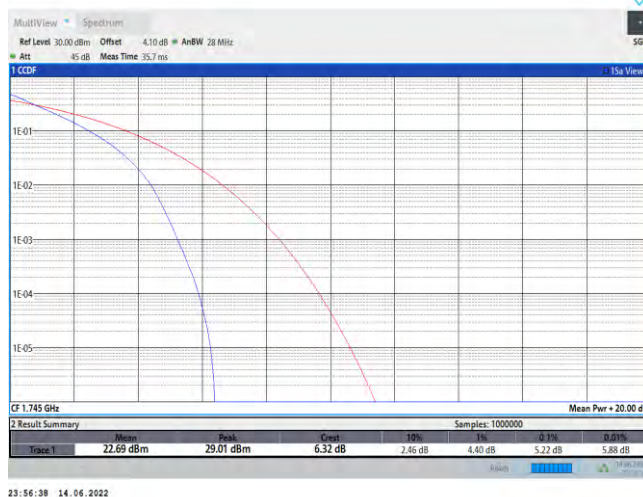
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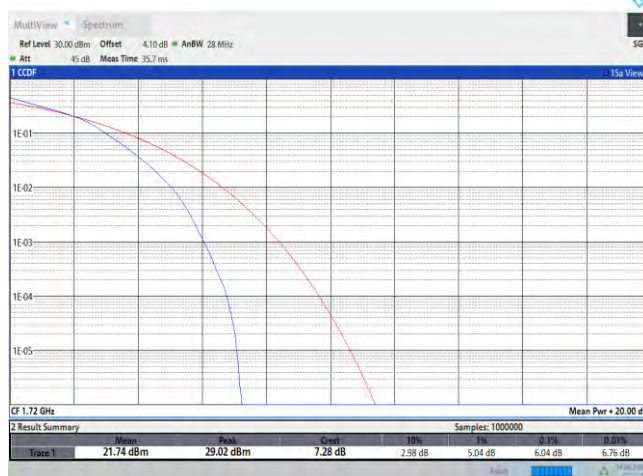
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Band4-20MHz-QPSK-20300-100RB#0



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



23:55:17 14.06.2022



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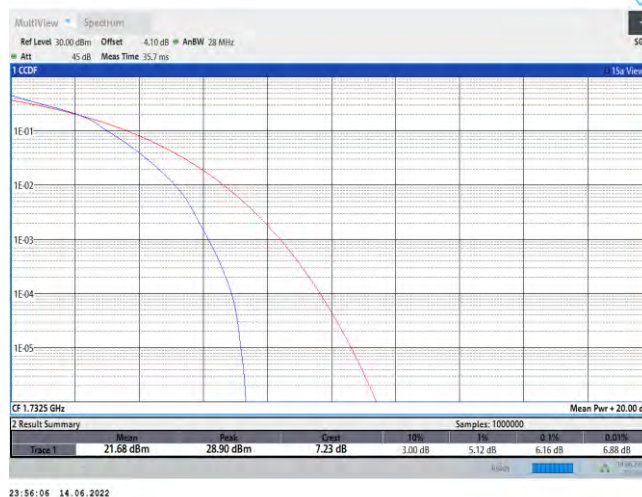
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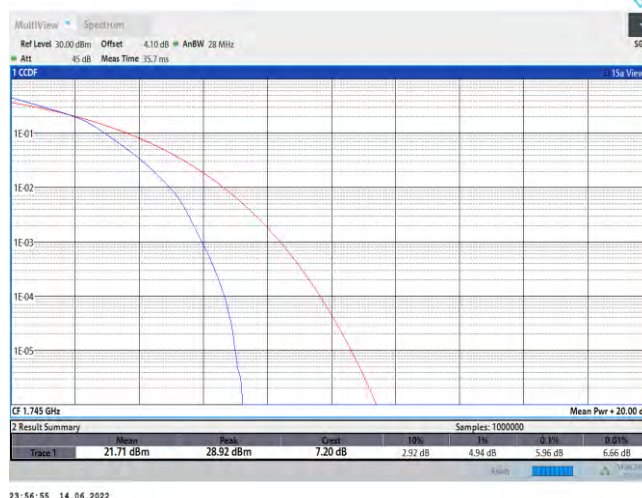
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Band4-20MHz-16QAM-20175-100RB#0



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



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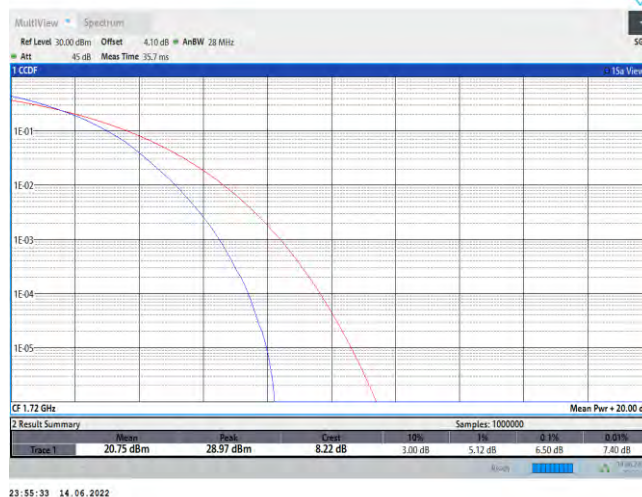
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Band4-20MHz-64QAM-20175-100RB#0



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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



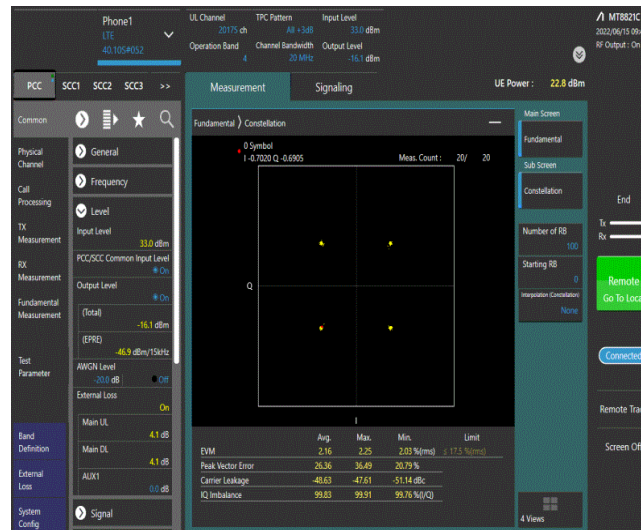
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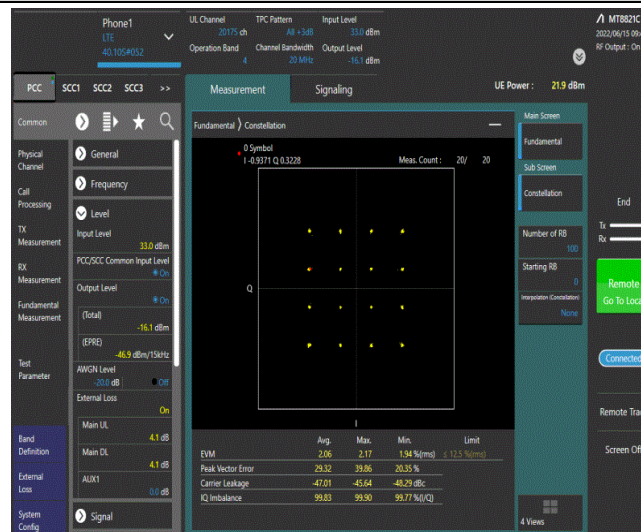
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Band4-20MHz-QPSK-20175-100RB#0



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



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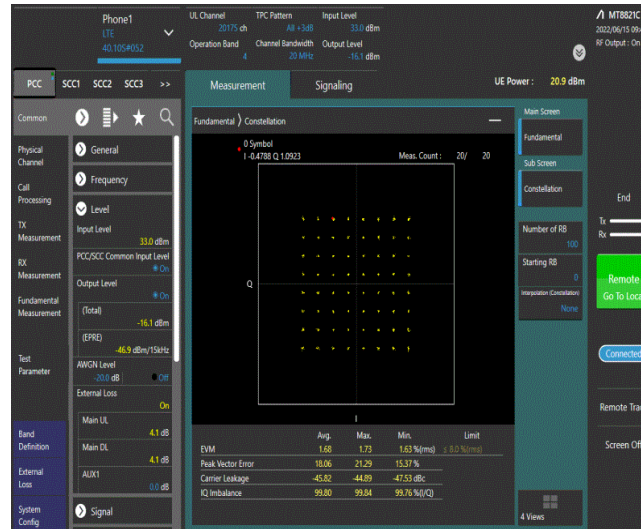
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Band4-20MHz-64QAM-20175-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.084	1.23	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.084	1.23	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.084	1.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.090	1.24	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.091	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.689	2.97	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.693	2.96	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.692	2.99	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.686	3.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.687	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.99	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.96	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.687	2.96	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.687	2.96	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.469	4.88	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.468	4.89	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.470	4.89	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.469	4.91	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.463	4.90	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.470	4.89	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.471	4.92	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.476	4.91	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.480	4.90	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.56	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.924	9.58	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.930	9.64	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.900	9.62	PASS



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Band4	10MHz	16QAM	20175	50RB#0	8.909	9.62	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.901	9.62	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.921	9.60	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.915	9.62	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.916	9.64	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.450	14.76	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.467	14.82	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.455	14.76	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.430	14.79	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.444	14.82	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.435	14.70	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.416	14.79	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.438	14.79	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.414	14.70	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.881	19.56	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.932	19.48	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.919	19.48	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.838	19.36	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.875	19.40	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.878	19.40	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.831	19.32	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.890	19.52	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.859	19.48	PASS



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Test Graphs

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



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



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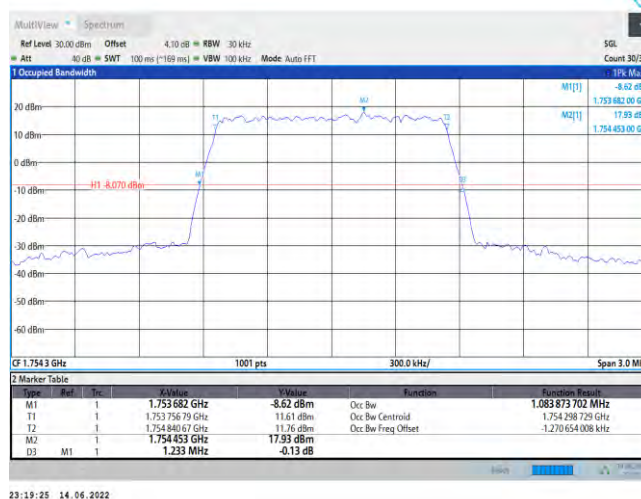
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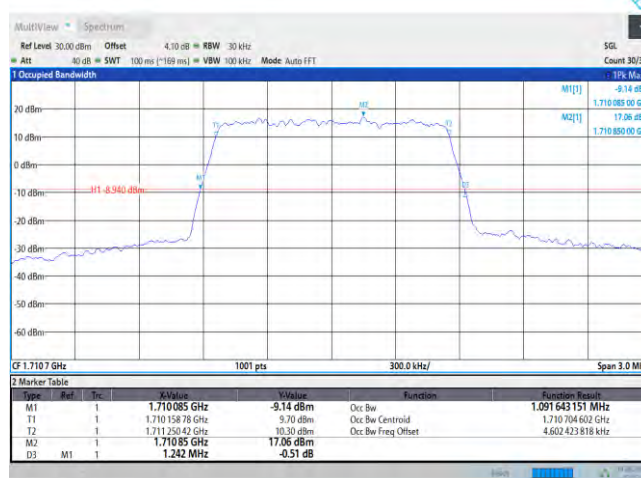
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Band4-1.4MHz-QPSK-20393-6RB#0



23:19:25 14.06.2022

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



23:17:59 14.06.2022



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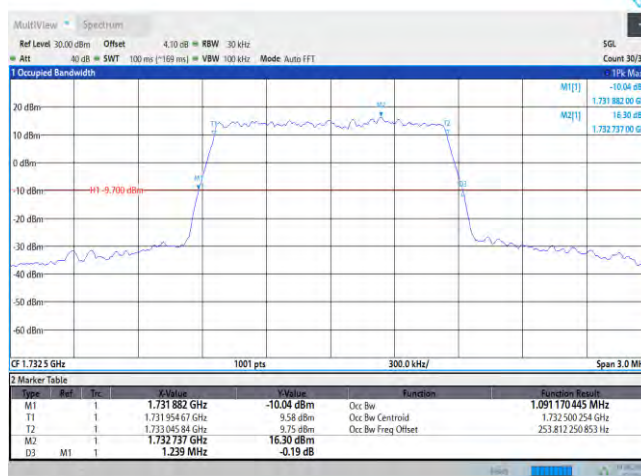
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Band4-1.4MHz-64QAM-19957-6RB#0



23:18:16 14.06.2022

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



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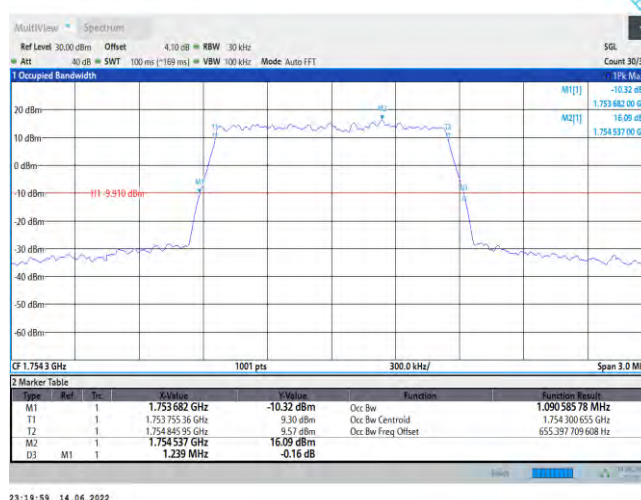
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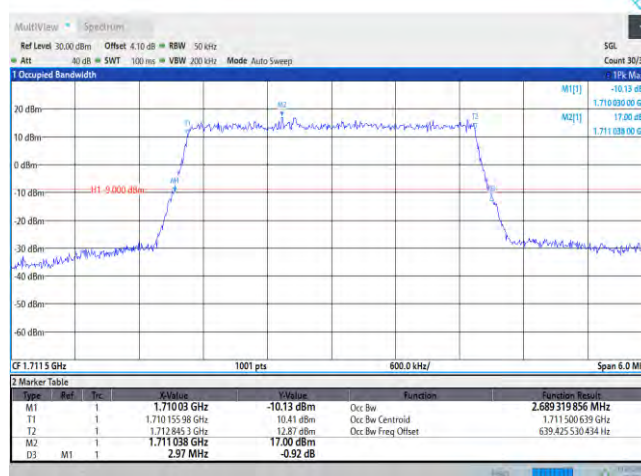
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Band4-3MHz-QPSK-19965-15RB#0



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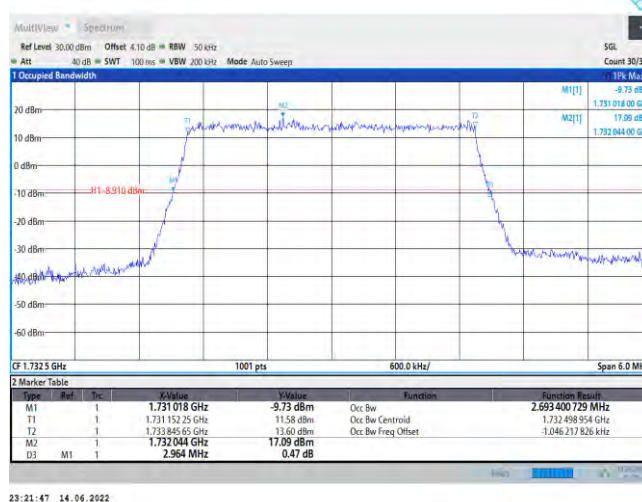
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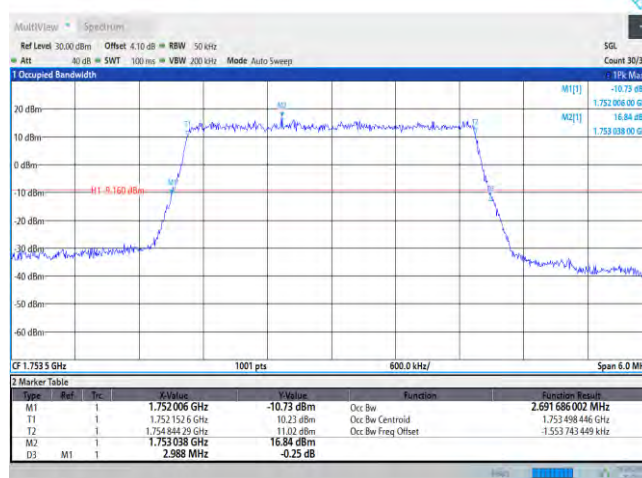
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Band4-3MHz-QPSK-20385-15RB#0



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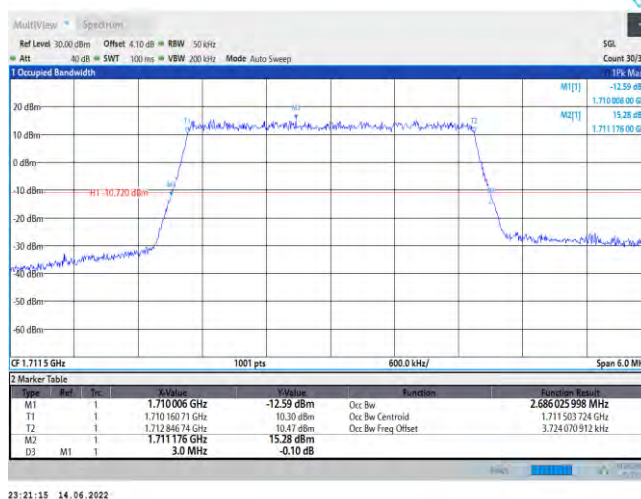
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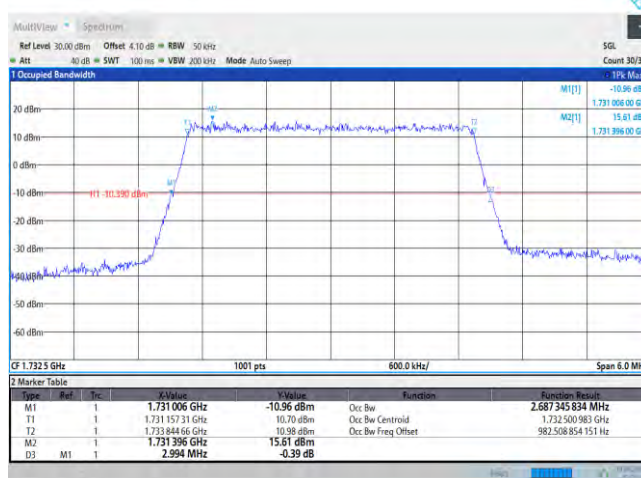
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Band4-3MHz-16QAM-20175-15RB#0



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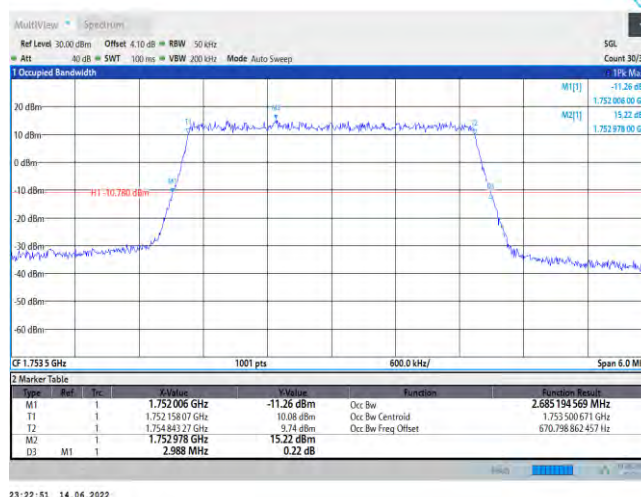
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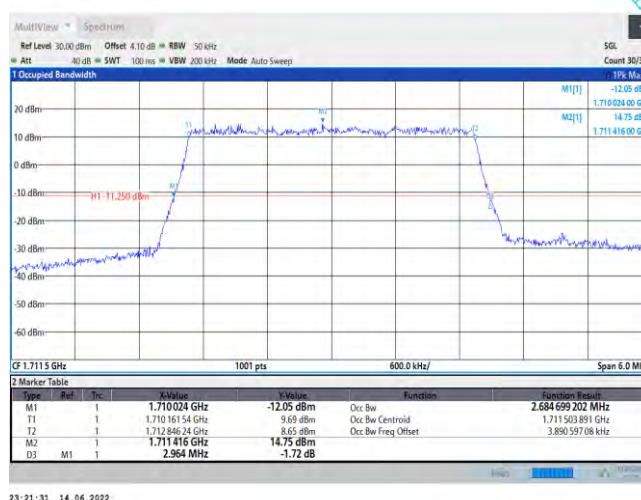
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Band4-3MHz-16QAM-20385-15RB#0



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



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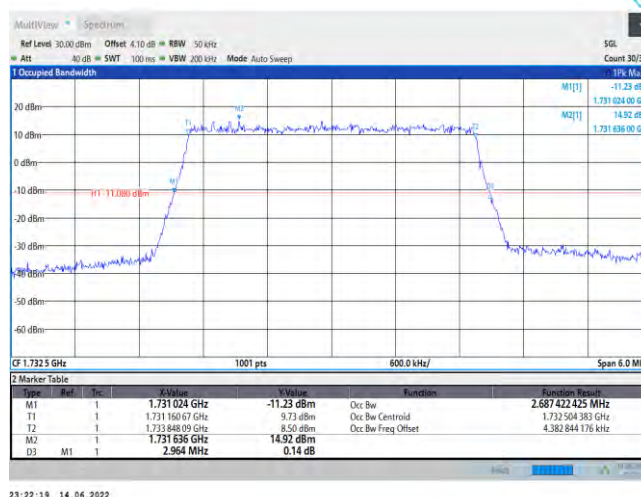
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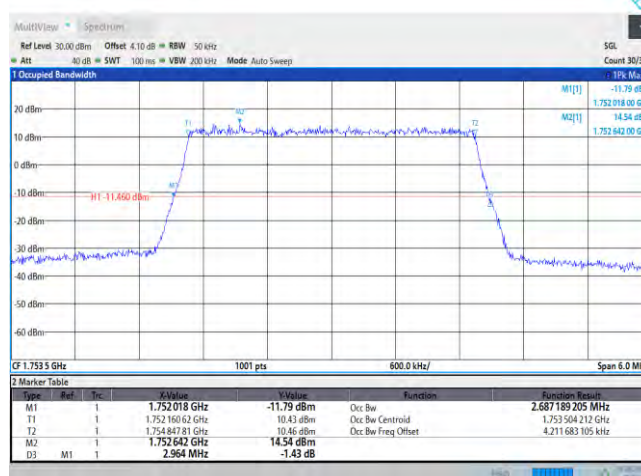
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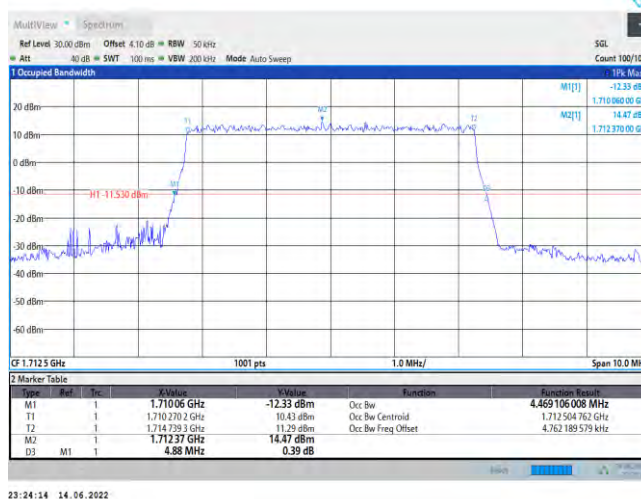
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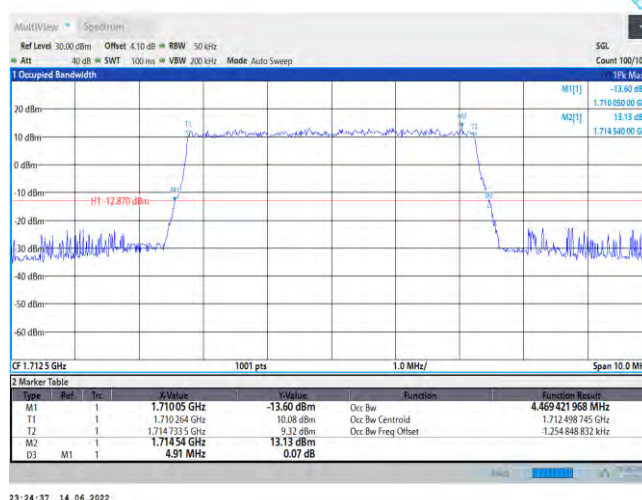
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Band4-5MHz-QPSK-20375-25RB#0



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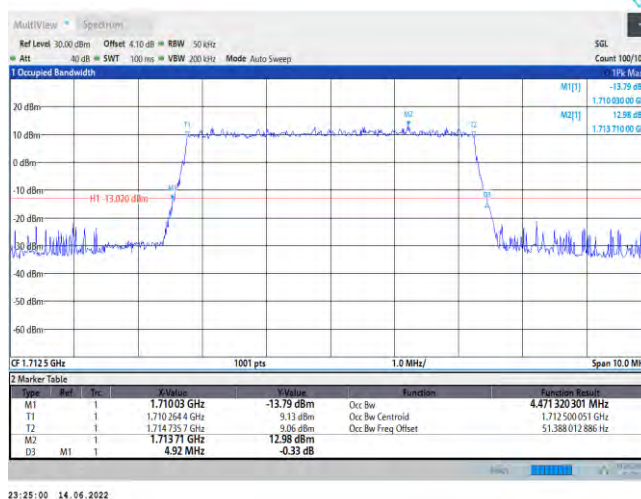
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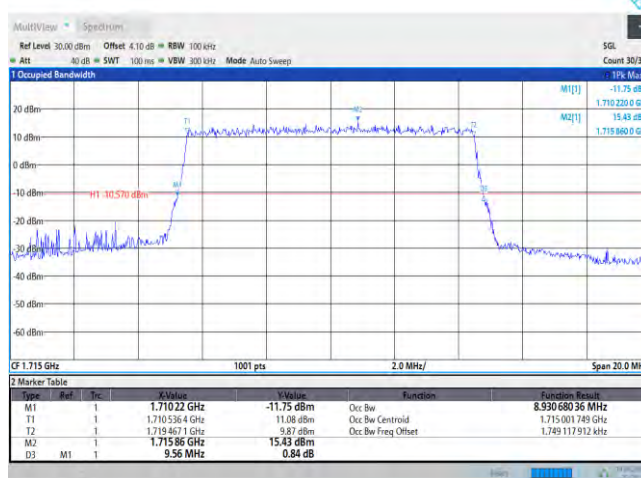
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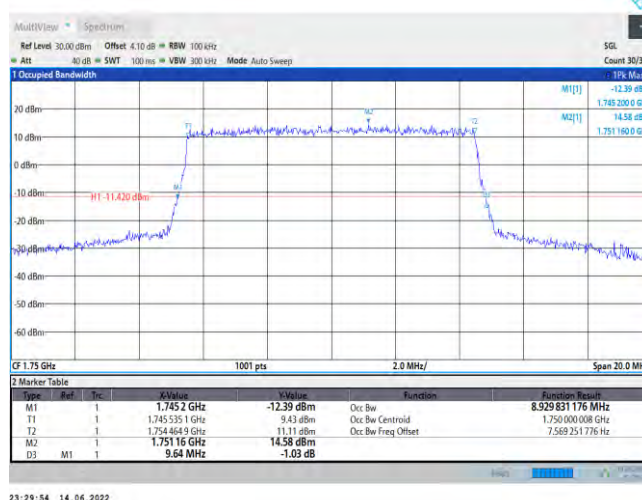
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Band4-10MHz-QPSK-20350-50RB#0



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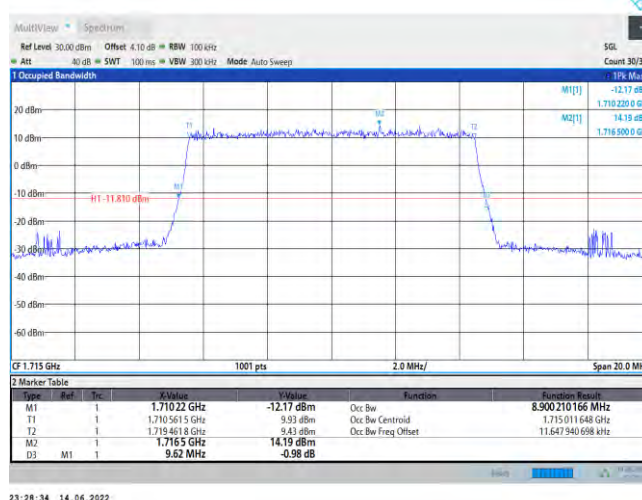
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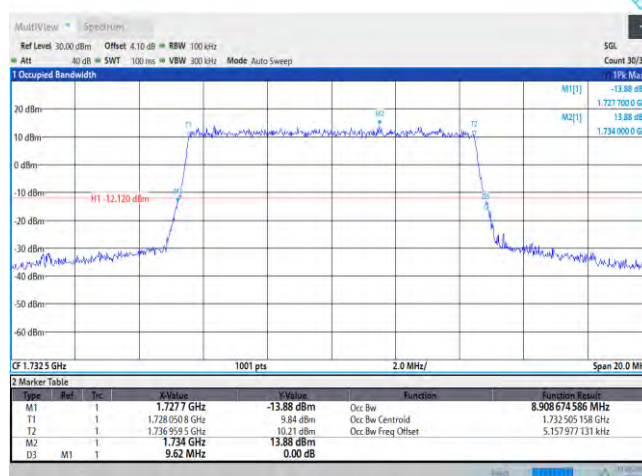
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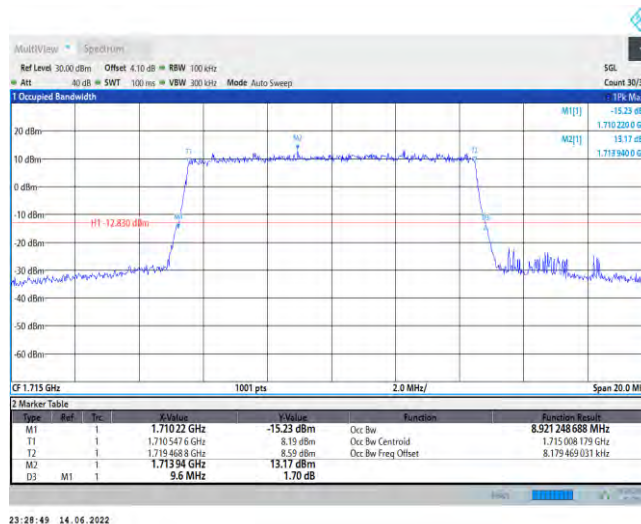


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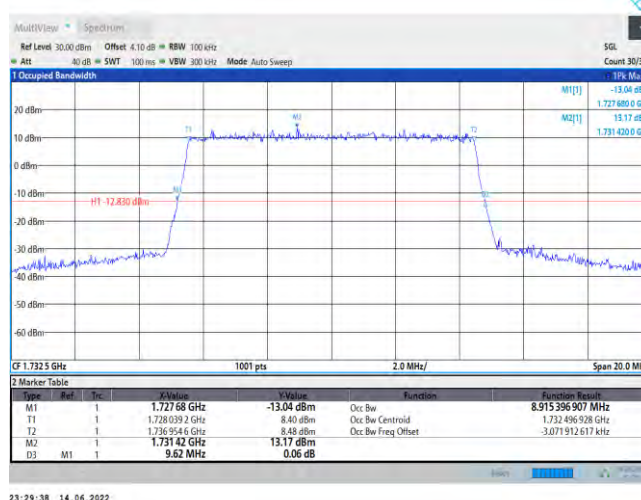
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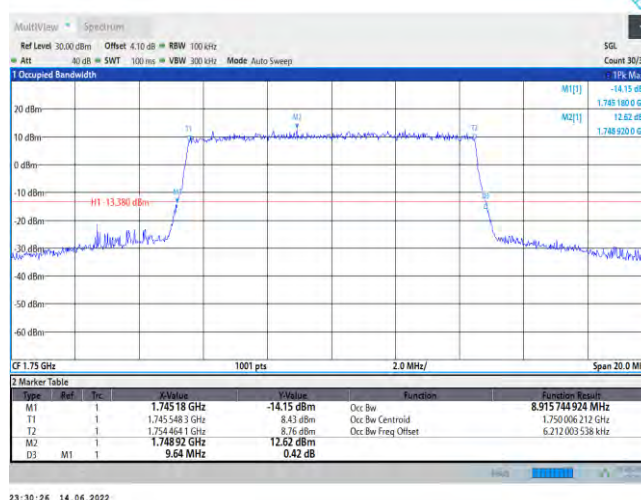
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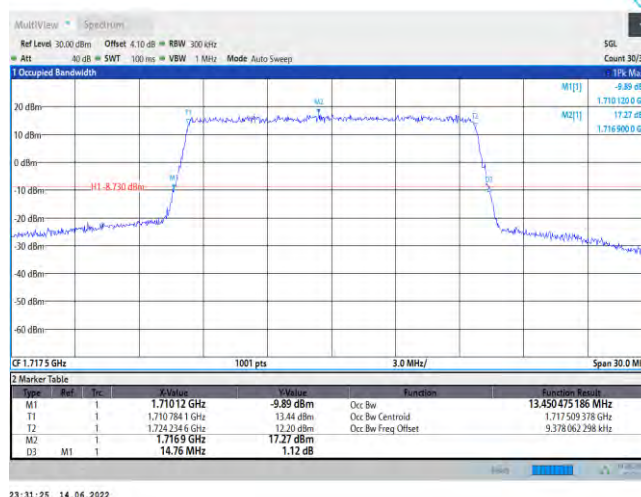
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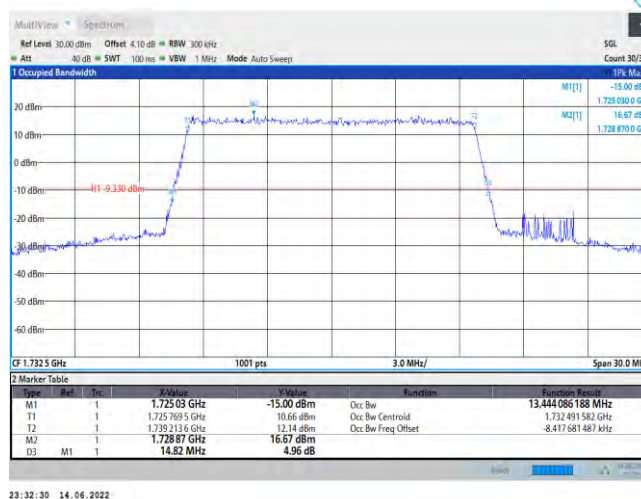
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Band4-15MHz-16QAM-20325-75RB#0



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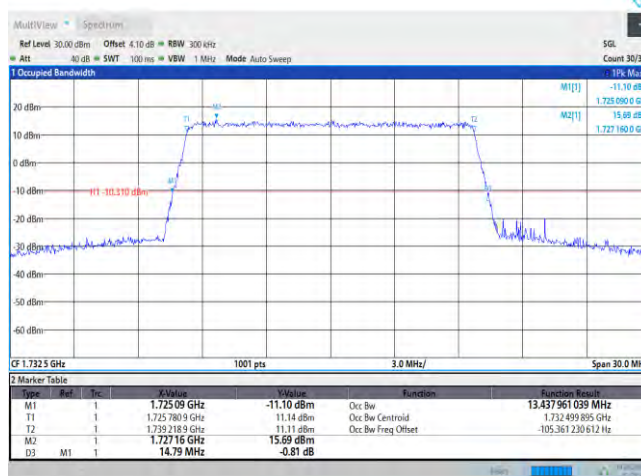
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Band4-15MHz-64QAM-20175-75RB#0



23:32:46 14.06.2022



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



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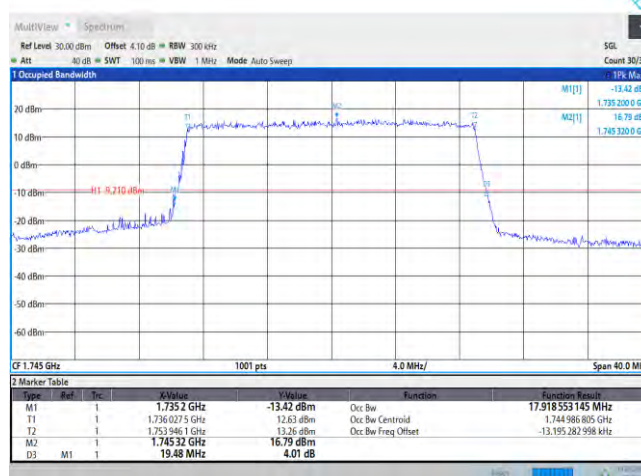
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Band4-20MHz-QPSK-20300-100RB#0



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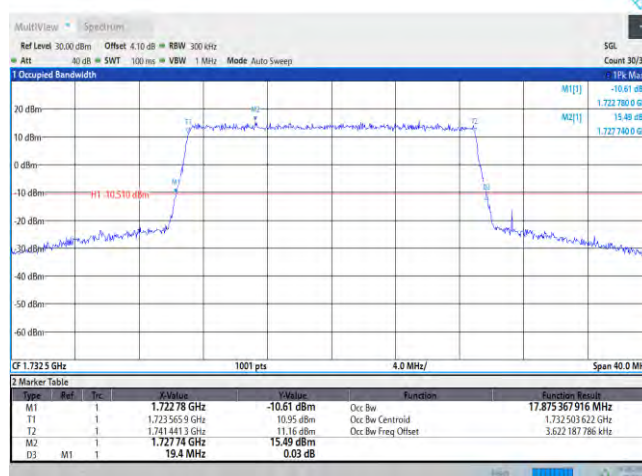
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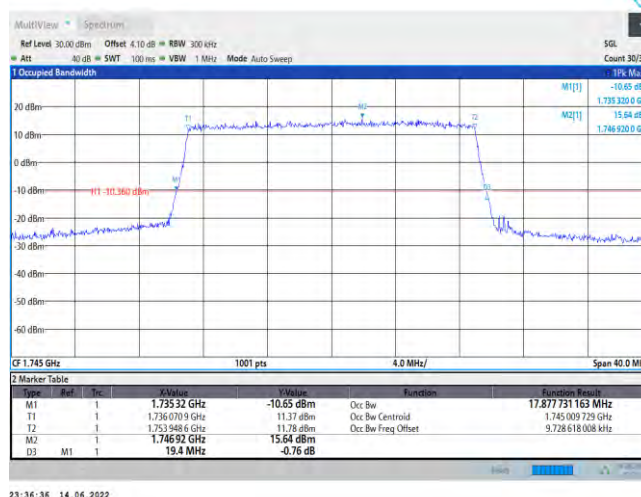
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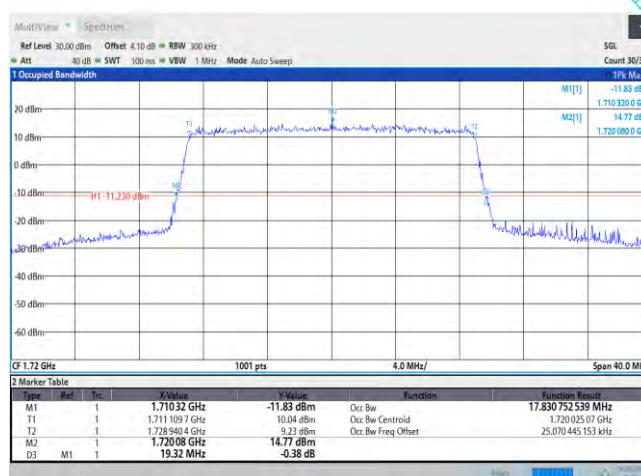
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Band4-20MHz-64QAM-20050-100RB#0



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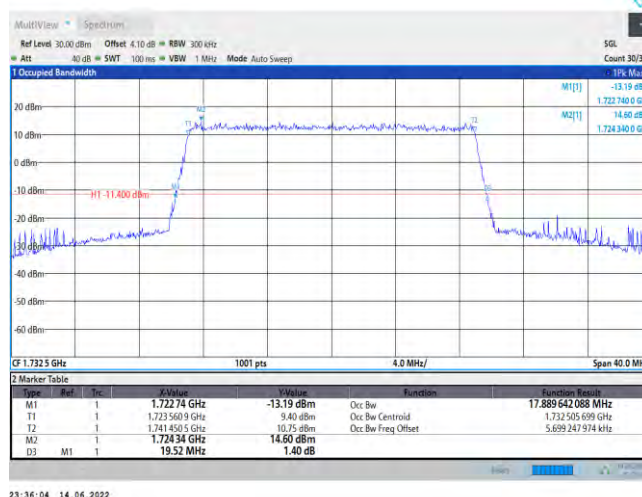
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Band4-20MHz-64QAM-20300-100RB#0



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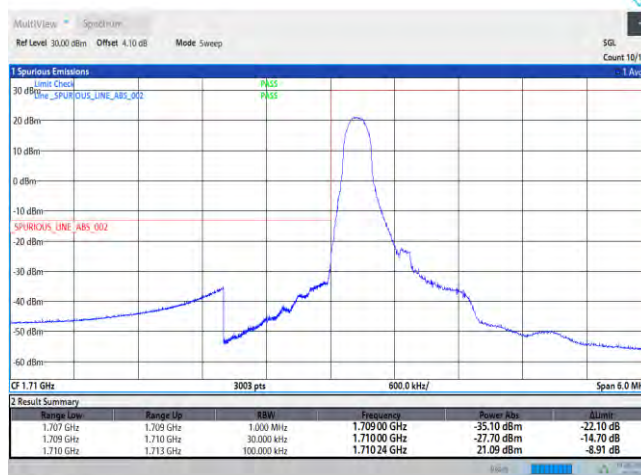
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Band Edge

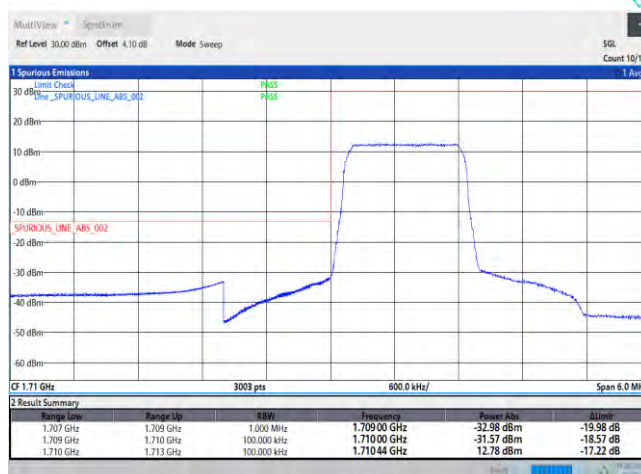
Test Graphs

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



23:38:03 14.06.2022

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



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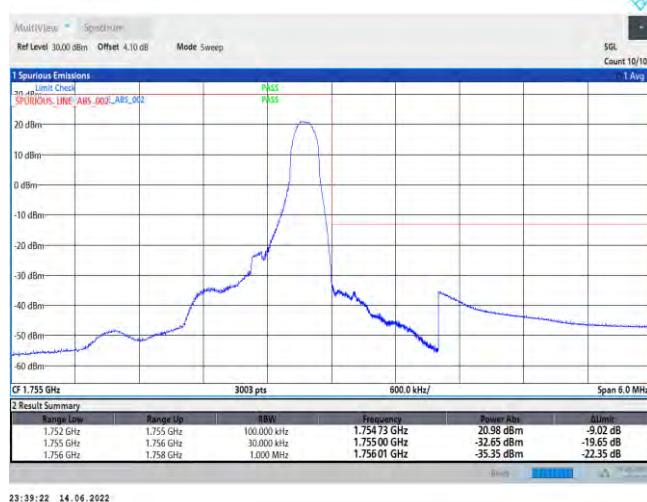
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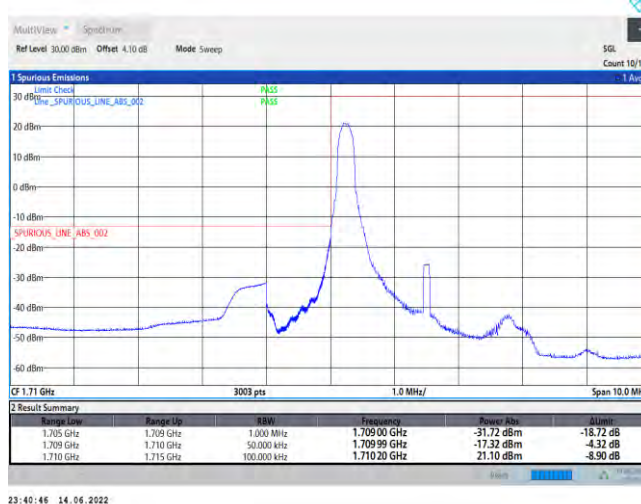
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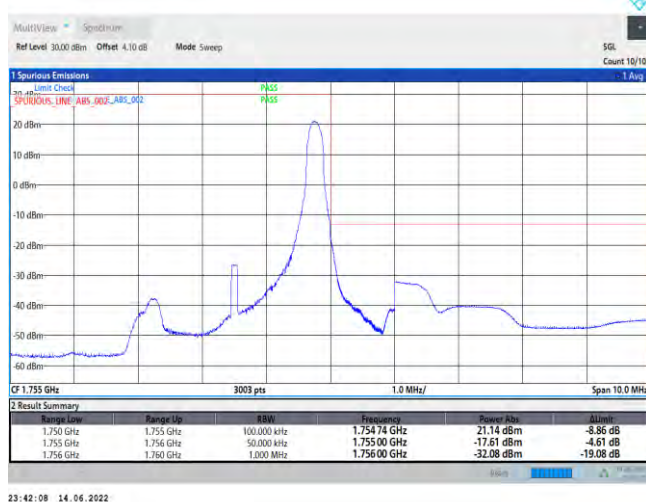
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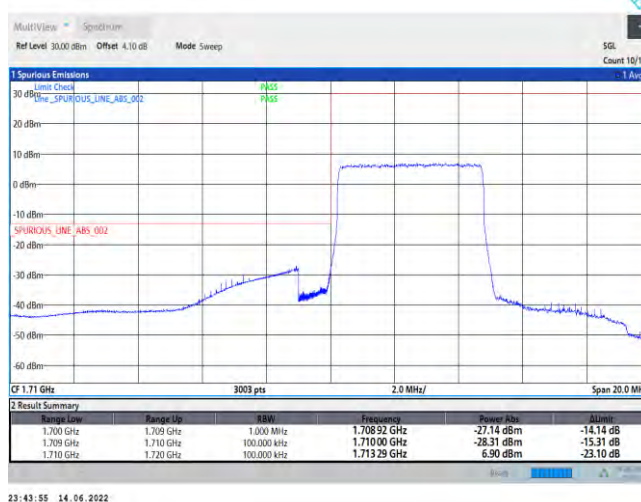
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Band4-5MHz-QPSK-19975-25RB#0



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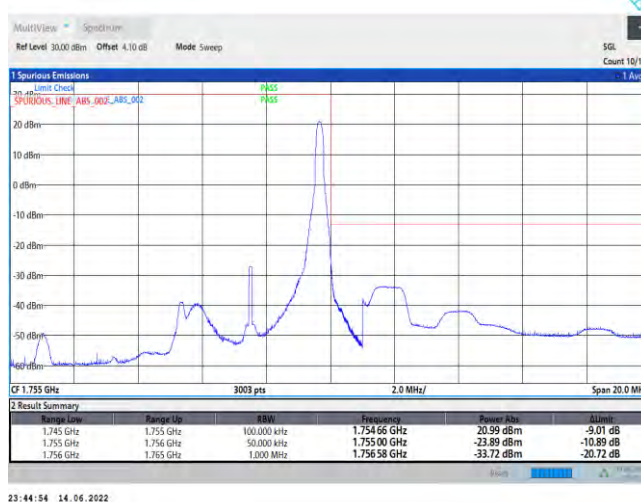
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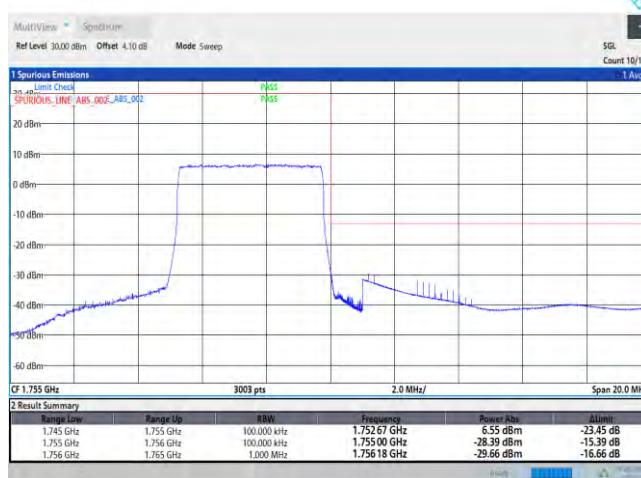
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Band4-5MHz-QPSK-20375-25RB#0



23:45:18 14.06.2022



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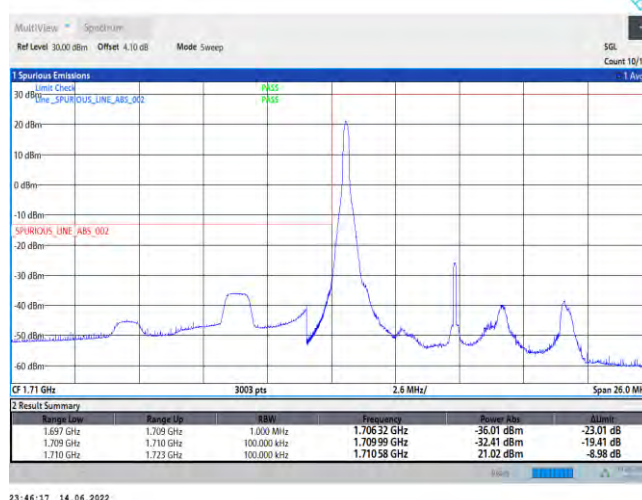
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Band4-10MHz-QPSK-20000-1RB#0



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



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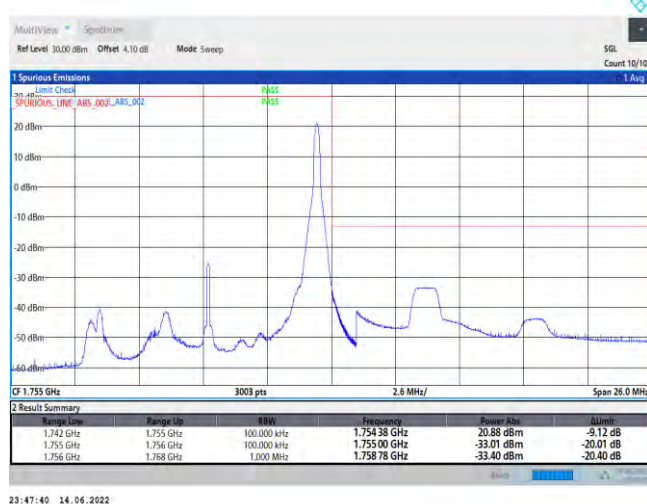
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Band4-10MHz-QPSK-20350-1RB#49



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



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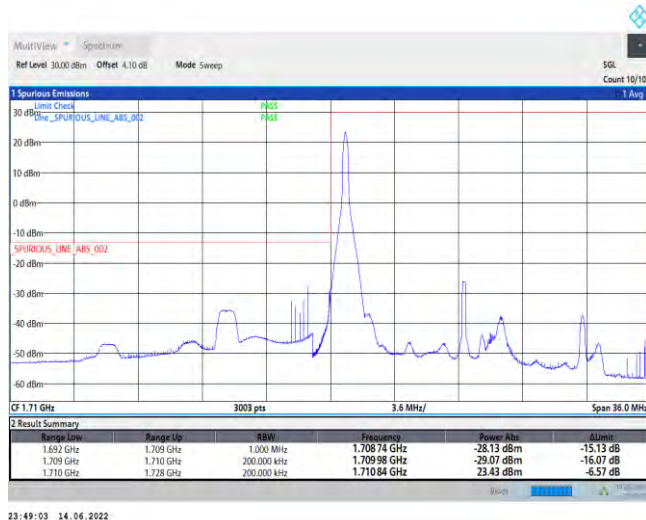
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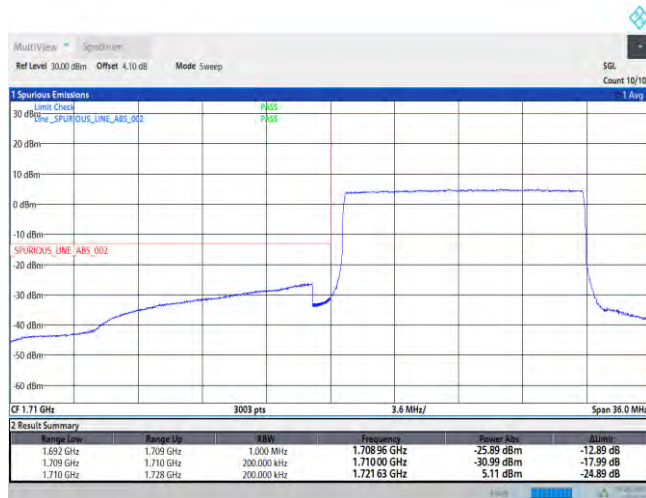
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Band4-15MHz-QPSK-20025-1RB#0



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



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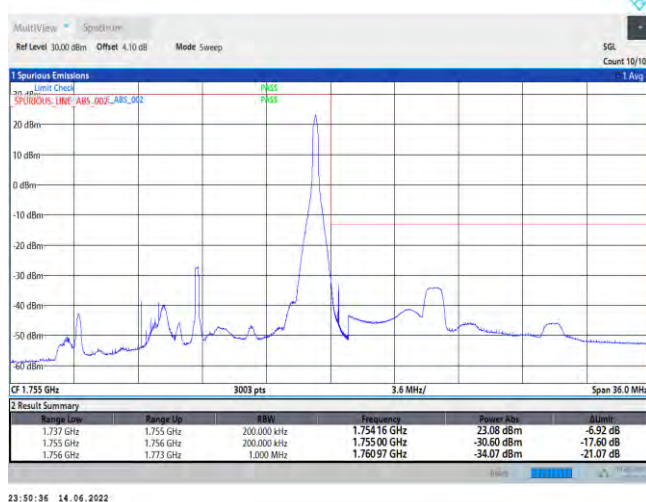
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Band4-15MHz-QPSK-20325-1RB#74



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



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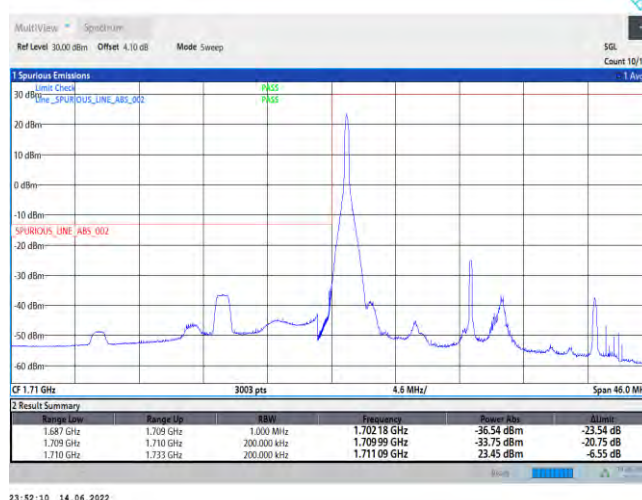
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Band4-20MHz-QPSK-20050-1RB#0



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



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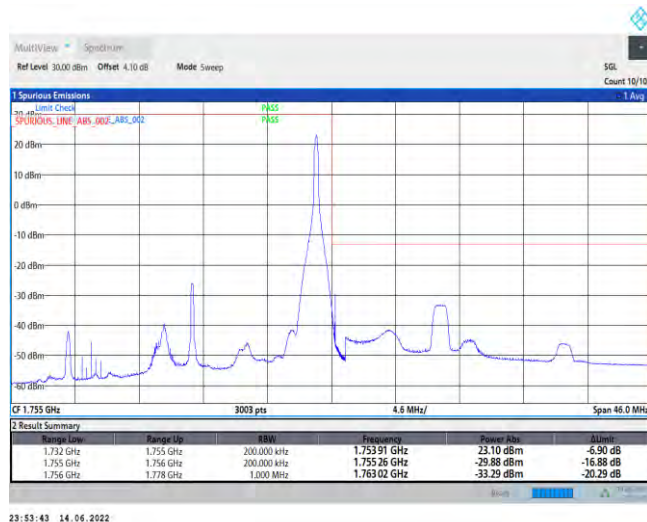
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Band4-20MHz-QPSK-20300-1RB#99



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



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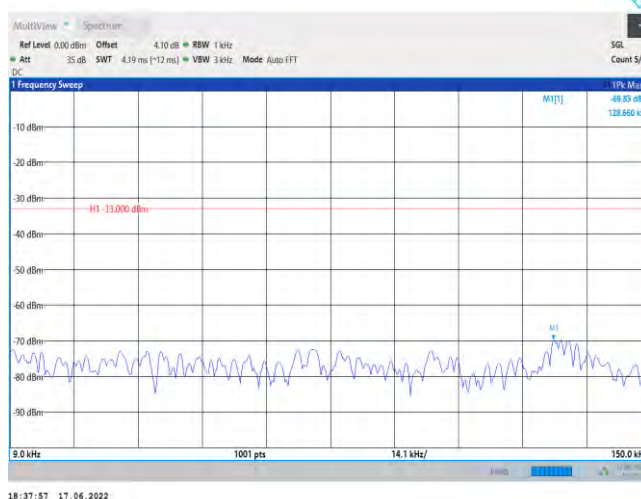
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Conducted Spurious Emission

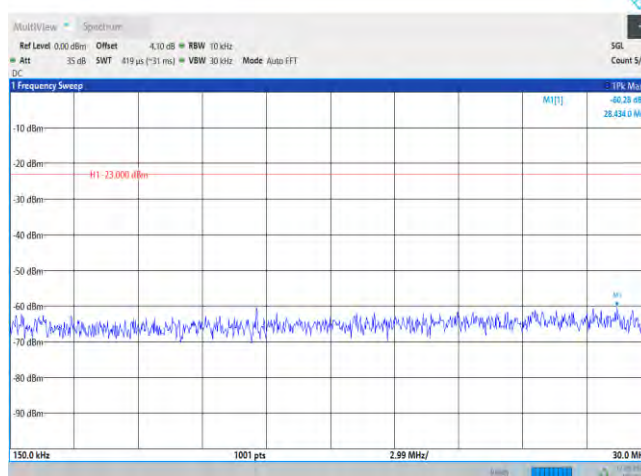
Test Graphs

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



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



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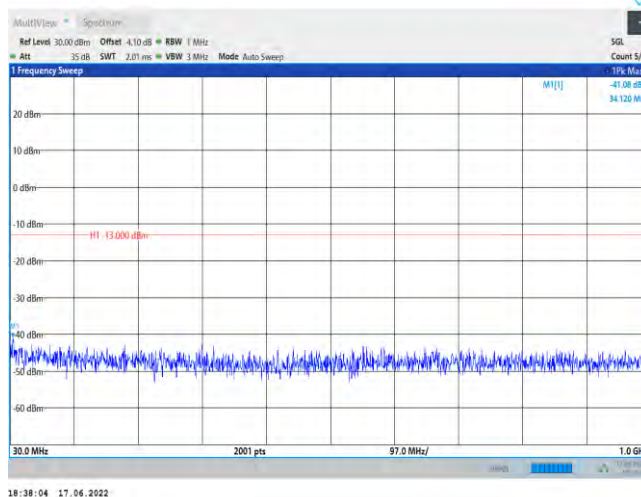
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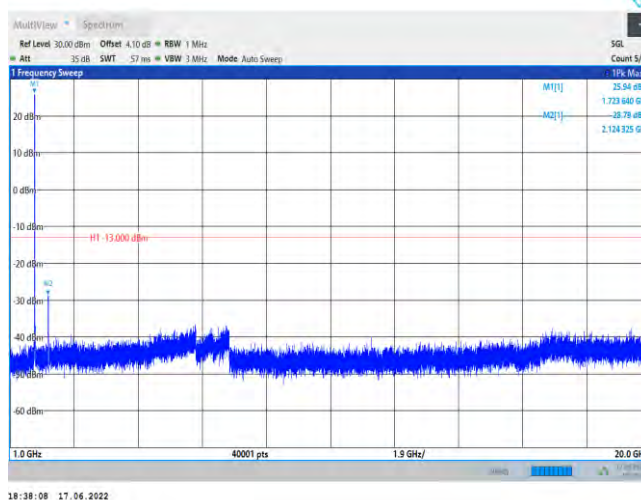
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



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



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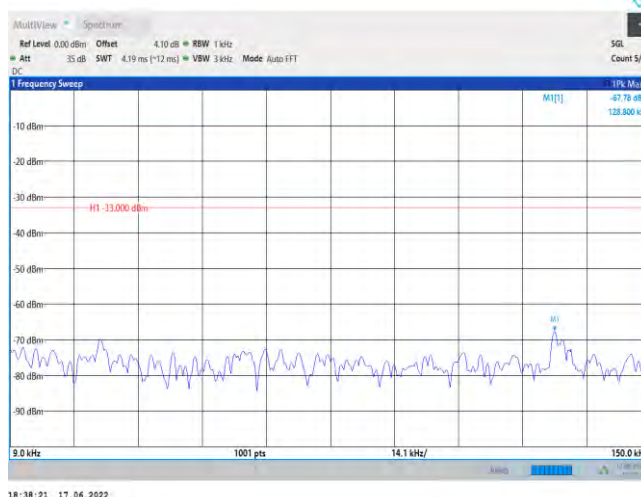
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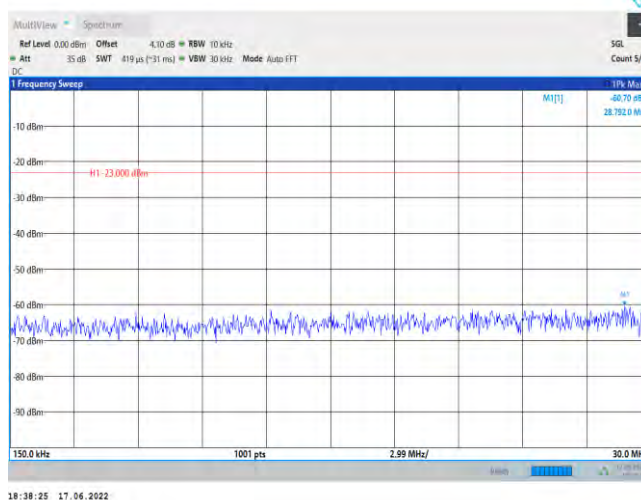
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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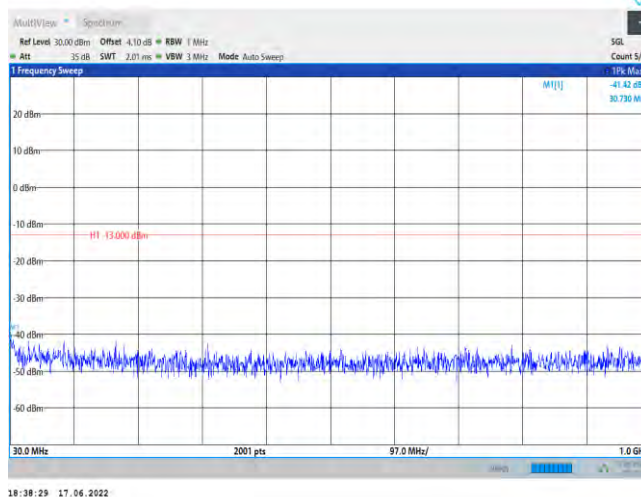
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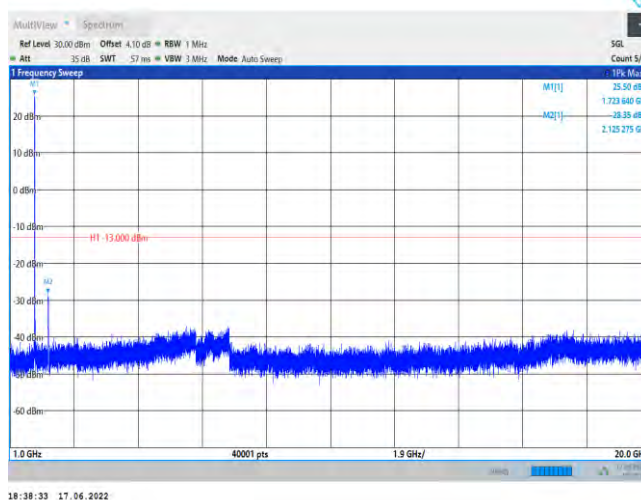
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



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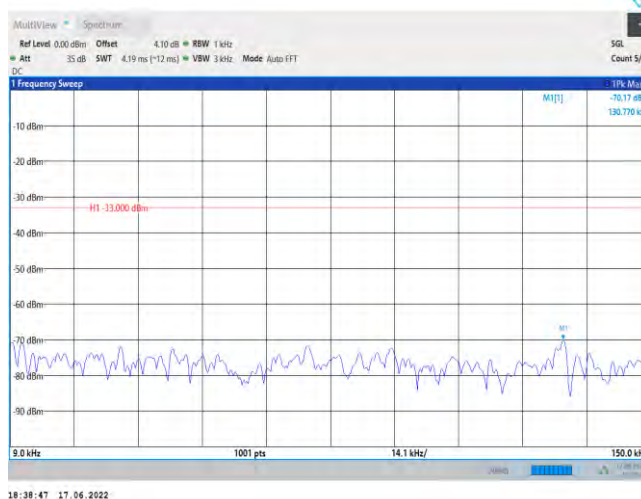
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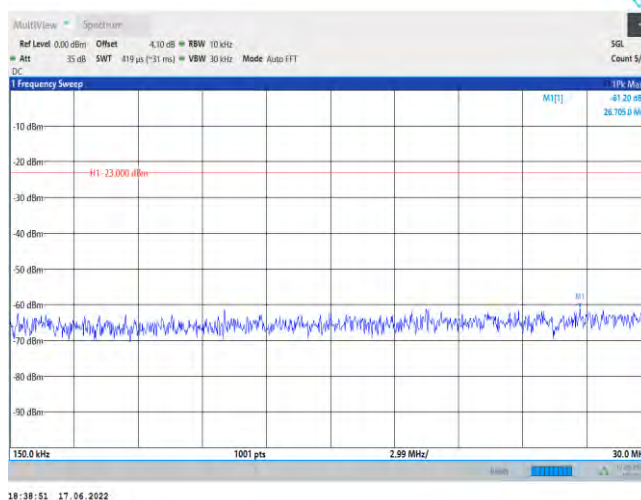
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Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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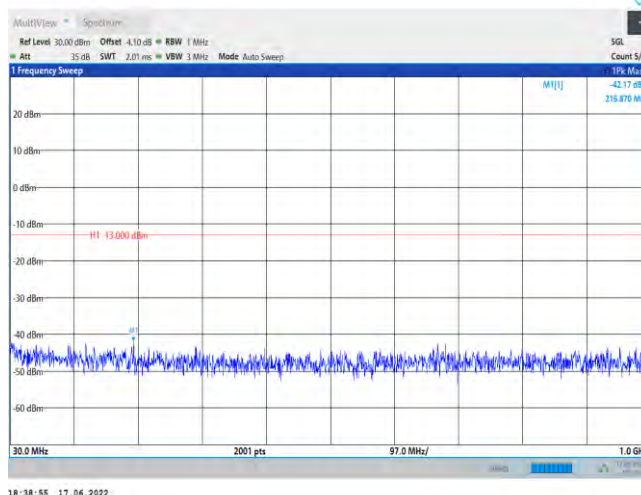
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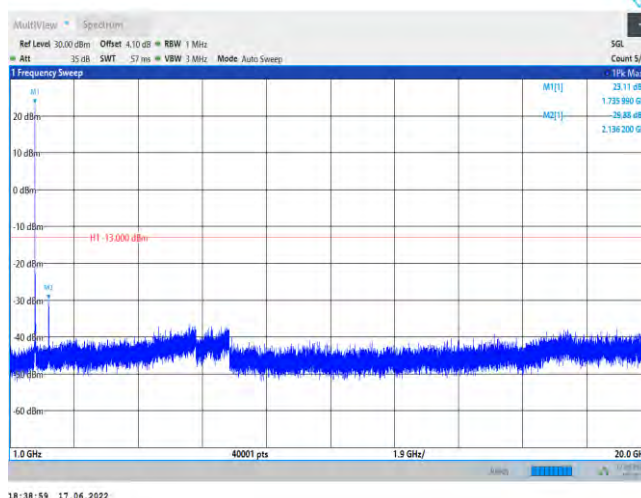
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	50.50	-112.09	-61.59	-13.00	48.59	194	360	Horizontal
2	5133.2700	49.38	-107.65	-58.27	-13.00	45.27	134	360	Horizontal
3	6844.3600	48.79	-103.51	-54.72	-13.00	41.72	167	358	Horizontal
4	8555.4500	44.40	-99.06	-54.66	-13.00	41.66	134	16	Horizontal
5	10266.5400	40.59	-95.66	-55.07	-13.00	42.07	264	360	Horizontal
6	11977.6300	37.10	-93.83	-56.73	-13.00	43.73	294	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	52.17	-112.09	-59.92	-13.00	46.92	261	330	Vertical
2	5133.2700	50.12	-107.65	-57.53	-13.00	44.53	184	360	Vertical
3	6844.3600	51.12	-103.51	-52.39	-13.00	39.39	164	353	Vertical
4	8555.4500	44.64	-99.06	-54.42	-13.00	41.42	137	360	Vertical
5	10266.5400	41.48	-95.66	-54.18	-13.00	41.18	281	358	Vertical
6	11977.6300	37.10	-93.83	-56.73	-13.00	43.73	276	330	Vertical



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南部 邮编: 215000

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Test Band = LTE Band 4_ TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	51.22	-112.06	-60.84	-13.00	47.84	231	344	Horizontal
2	5170.7700	48.99	-107.59	-58.60	-13.00	45.60	245	360	Horizontal
3	6894.3600	47.91	-103.41	-55.50	-13.00	42.50	294	360	Horizontal
4	8617.9500	45.28	-98.88	-53.60	-13.00	40.60	167	331	Horizontal
5	10341.5400	41.36	-95.47	-54.11	-13.00	41.11	137	4	Horizontal
6	12065.1300	37.44	-93.68	-56.24	-13.00	43.24	164	167	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	50.41	-112.06	-61.65	-13.00	48.65	134	304	Vertical
2	5170.7700	49.64	-107.59	-57.95	-13.00	44.95	184	304	Vertical
3	6894.3600	49.67	-103.41	-53.74	-13.00	40.74	264	44	Vertical
4	8617.9500	46.97	-98.88	-51.91	-13.00	38.91	271	135	Vertical
5	10341.5400	42.15	-95.47	-53.32	-13.00	40.32	237	258	Vertical
6	12065.1300	38.54	-93.68	-55.14	-13.00	42.14	162	318	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	50.24	-112.03	-61.79	-13.00	48.79	164	276	Horizontal
2	5208.2700	48.52	-107.54	-59.02	-13.00	46.02	234	29	Horizontal
3	6944.3600	47.70	-103.10	-55.40	-13.00	42.40	294	60	Horizontal
4	8680.4500	45.14	-99.00	-53.86	-13.00	40.86	237	245	Horizontal
5	10416.5400	39.03	-95.36	-56.33	-13.00	43.33	163	183	Horizontal
6	12152.6300	37.41	-93.59	-56.18	-13.00	43.18	192	354	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	51.10	-112.03	-60.93	-13.00	47.93	137	302	Vertical
2	5208.2700	51.27	-107.54	-56.27	-13.00	43.27	192	360	Vertical
3	6944.3600	48.93	-103.10	-54.17	-13.00	41.17	167	152	Vertical
4	8680.4500	44.93	-99.00	-54.07	-13.00	41.07	234	76	Vertical
5	10416.5400	41.95	-95.36	-53.41	-13.00	40.41	267	226	Vertical
6	12152.6300	37.60	-93.59	-55.99	-13.00	42.99	291	360	Vertical

Remark:

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

$$\text{Level} = \text{Reading Level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor} = \text{AF(dB/m)} + \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$


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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	6.30	0.003636	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-2.90	-0.001674	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	4.20	0.002424	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.30	0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	7.30	0.004214	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-8.80	-0.005079	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-6.30	-0.003636	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-8.90	-0.005137	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	6.10	0.003521	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-6.60	-0.003810	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-6.70	-0.003867	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-6.70	-0.003867	PASS

The End



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