

Appendix B.2

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	24.58	25.96	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.68	26.06	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.60	25.98	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.69	25.07	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	24.25	25.63	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	24.36	25.74	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	24.27	25.65	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.36	24.74	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	24.34	25.72	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.45	25.83	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.33	25.71	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.41	24.79	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.81	25.19	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.97	25.35	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.85	25.23	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.69	24.07	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.57	24.95	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.53	24.91	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.60	24.98	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.46	23.84	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.51	24.89	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.58	24.96	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.58	24.96	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.45	23.83	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.81	24.19	30	PASS



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Band4	1.4MHz	64QAM	19957	1RB#2	22.88	24.26	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.80	24.18	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	21.65	23.03	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.47	23.85	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.48	23.86	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	22.46	23.84	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.29	22.67	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	22.49	23.87	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.61	23.99	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	22.51	23.89	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	21.36	22.74	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	24.66	26.04	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.71	26.09	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.57	25.95	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.61	24.99	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.29	25.67	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.35	25.73	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.33	25.71	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.40	24.78	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.35	25.73	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.41	25.79	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.36	25.74	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.44	24.82	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.90	25.28	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.88	25.26	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	23.91	25.29	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.64	24.02	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.63	25.01	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.54	24.92	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.58	24.96	30	PASS



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Band4	3MHz	16QAM	20175	15RB#0	22.41	23.79	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.63	25.01	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.69	25.07	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.67	25.05	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.46	23.84	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	22.79	24.17	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.90	24.28	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	22.76	24.14	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.67	23.05	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	22.50	23.88	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	22.56	23.94	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.51	23.89	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.37	22.75	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	22.55	23.93	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.53	23.91	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.50	23.88	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	21.45	22.83	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	24.68	26.06	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.62	26	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	24.61	25.99	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.61	24.99	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	24.34	25.72	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.34	25.72	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	24.36	25.74	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.43	24.81	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	24.39	25.77	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.44	25.82	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	24.40	25.78	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.46	24.84	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.98	25.36	30	PASS



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Band4	5MHz	16QAM	19975	1RB#12	23.89	25.27	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.90	25.28	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.64	24.02	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.62	25	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.68	25.06	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.54	24.92	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.35	23.73	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.73	25.11	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.75	25.13	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.66	25.04	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.46	23.84	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.90	24.28	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	22.71	24.09	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	22.83	24.21	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.66	23.04	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	22.42	23.8	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.47	23.85	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	22.56	23.94	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	21.42	22.8	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	22.61	23.99	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.62	24	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	22.53	23.91	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	21.44	22.82	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	24.64	26.02	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	24.64	26.02	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.53	25.91	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.56	24.94	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	24.37	25.75	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.30	25.68	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	24.35	25.73	30	PASS



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Band4	10MHz	QPSK	20175	50RB#0	23.39	24.77	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	24.33	25.71	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.41	25.79	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	24.38	25.76	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.48	24.86	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.90	25.28	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.92	25.3	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.73	25.11	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.57	23.95	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.58	24.96	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.54	24.92	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.53	24.91	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.39	23.77	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.66	25.04	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.71	25.09	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.79	25.17	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.45	23.83	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.84	24.22	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.78	24.16	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.71	24.09	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.55	22.93	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	22.55	23.93	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.48	23.86	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.53	23.91	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.40	22.78	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	22.58	23.96	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.57	23.95	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.57	23.95	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.47	22.85	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	24.59	25.97	30	PASS



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Band4	15MHz	QPSK	20025	1RB#38	24.48	25.86	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.47	25.85	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.58	24.96	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	24.28	25.66	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.34	25.72	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.37	25.75	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.41	24.79	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	24.29	25.67	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.43	25.81	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.45	25.83	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.42	24.8	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.85	25.23	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.84	25.22	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.67	25.05	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.55	23.93	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.55	24.93	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.65	25.03	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.65	25.03	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.43	23.81	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.52	24.9	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.60	24.98	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.67	25.05	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.45	23.83	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	22.78	24.16	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	22.72	24.1	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	22.63	24.01	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.55	22.93	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	22.53	23.91	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.56	23.94	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	22.50	23.88	30	PASS



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Band4	15MHz	64QAM	20175	75RB#0	21.36	22.74	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	22.49	23.87	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.61	23.99	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	22.56	23.94	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.44	22.82	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	24.50	25.88	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.54	25.92	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	24.31	25.69	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.51	24.89	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	24.33	25.71	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.32	25.7	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	24.40	25.78	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.40	24.78	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	24.19	25.57	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.38	25.76	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	24.41	25.79	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.40	24.78	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.75	25.13	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.87	25.25	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.66	25.04	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.47	23.85	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.60	24.98	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.55	24.93	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.58	24.96	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.38	23.76	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.51	24.89	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.70	25.08	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.64	25.02	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.40	23.78	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	22.72	24.1	30	PASS



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Report No.: SEWA2203000005RG01

Rev.: 02

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Band4	20MHz	64QAM	20050	1RB#49	22.65	24.03	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.51	23.89	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.41	22.79	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	22.57	23.95	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.43	23.81	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.60	23.98	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	21.38	22.76	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	22.42	23.8	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.54	23.92	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.56	23.94	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.40	22.78	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	5.48	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.32	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.50	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.40	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.28	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.36	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.64	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.60	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.60	13	PASS



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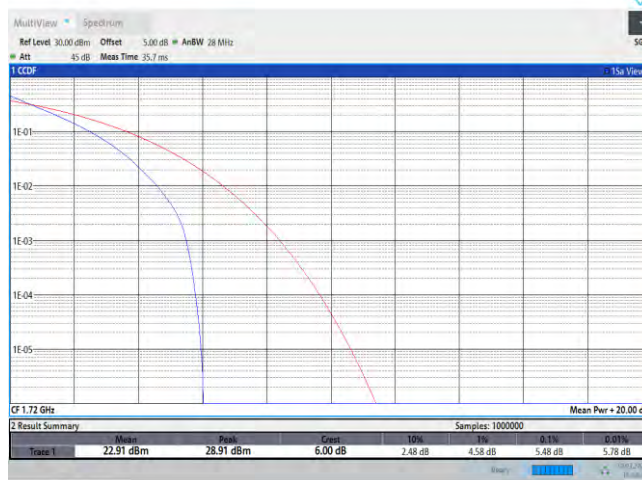
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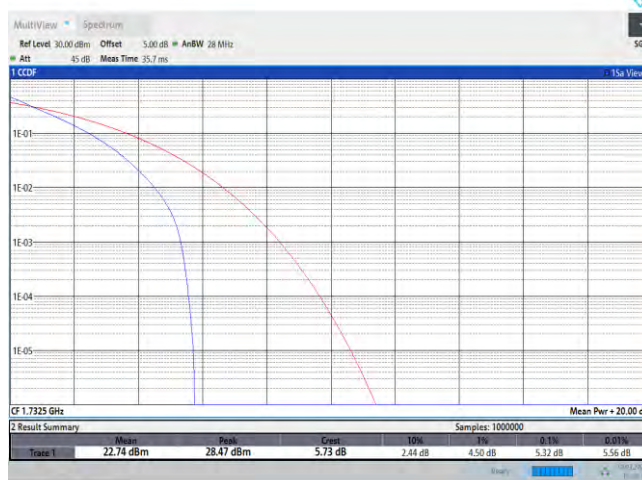
Test Graphs

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



15:58:24 30.03.2022

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



15:59:14 30.03.2022



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



16:00:03 30.03.2022

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



15:58:41 30.03.2022



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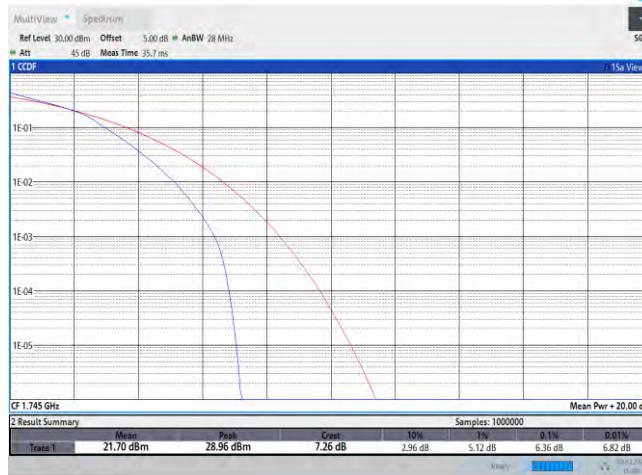
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Band4-20MHz-16QAM-20175-100RB#0



15:59:30 30.03.2022

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



16:00:19 30.03.2022



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



15:58:57 30.03.2022

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



15:59:47 30.03.2022



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



16:00:36 30.03.2022



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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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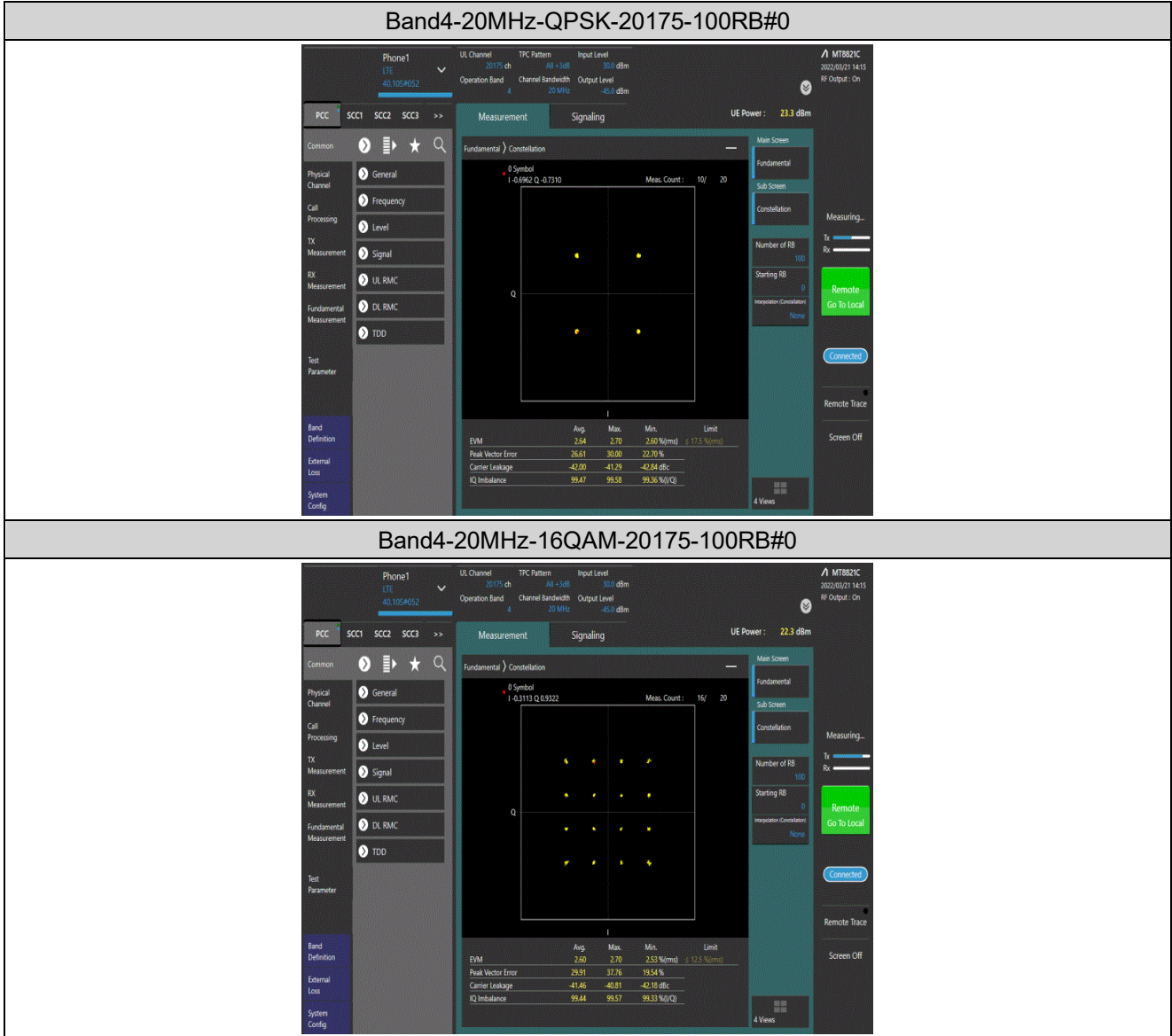
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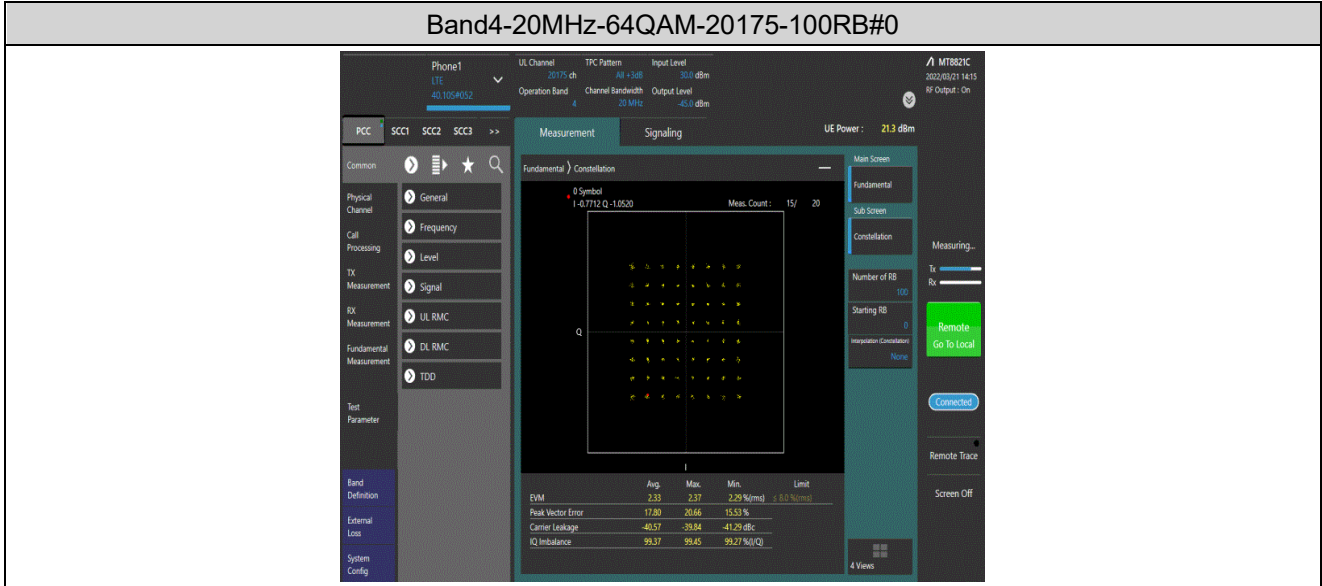
Test Graphs



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Wireless Laboratory

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.085	1.23	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.23	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.085	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	1.092	1.24	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.091	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.695	2.97	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	2.97	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.695	2.98	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.690	2.99	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.689	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.691	2.99	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.691	2.98	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.686	2.96	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.690	2.98	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.474	4.89	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.472	4.89	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.472	4.89	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.472	4.93	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.471	4.91	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.474	4.91	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.483	4.91	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.484	4.91	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.480	4.91	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.940	9.68	PASS



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Band4	10MHz	QPSK	20175	50RB#0	8.929	9.60	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.942	9.68	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.923	9.62	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.913	9.60	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.924	9.62	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.939	9.66	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.927	9.66	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.934	9.64	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.488	14.73	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.445	14.73	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.480	14.73	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.474	14.76	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.433	14.73	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.468	14.76	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.445	14.82	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.404	14.76	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.448	14.76	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.938	19.52	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.887	19.28	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.944	19.52	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.920	19.44	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.849	19.36	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.909	19.48	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.902	19.56	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.839	19.40	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.935	19.52	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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Band4-1.4MHz-QPSK-20393-6RB#0



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



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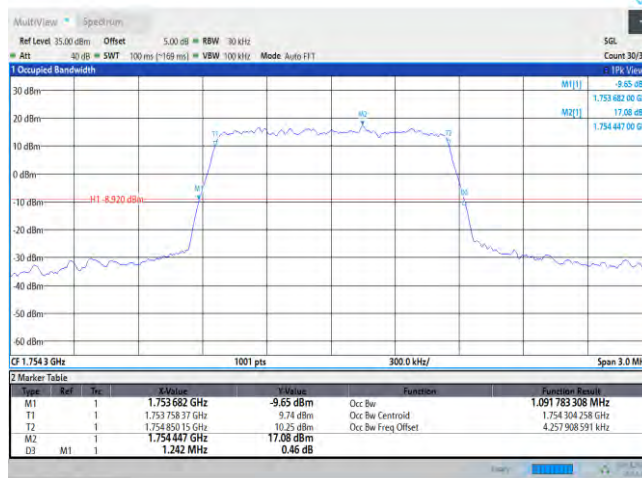
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Band4-1.4MHz-16QAM-20175-6RB#0



15:10:51 30.03.2022

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

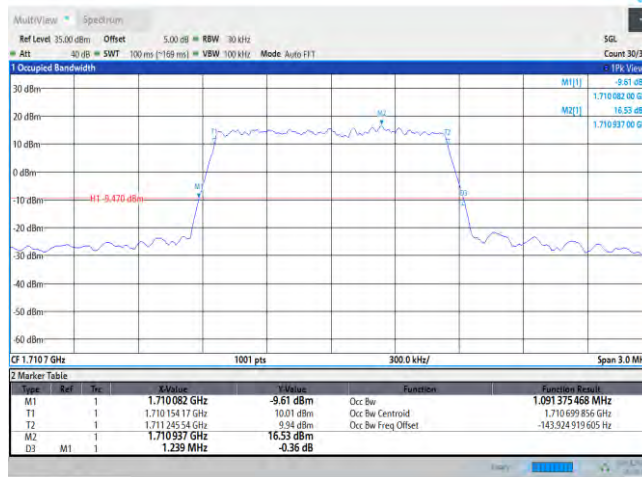


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Band4-1.4MHz-64QAM-19957-6RB#0



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

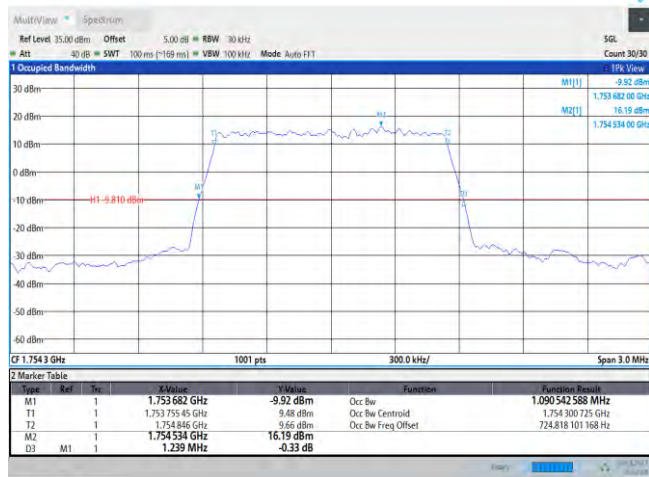


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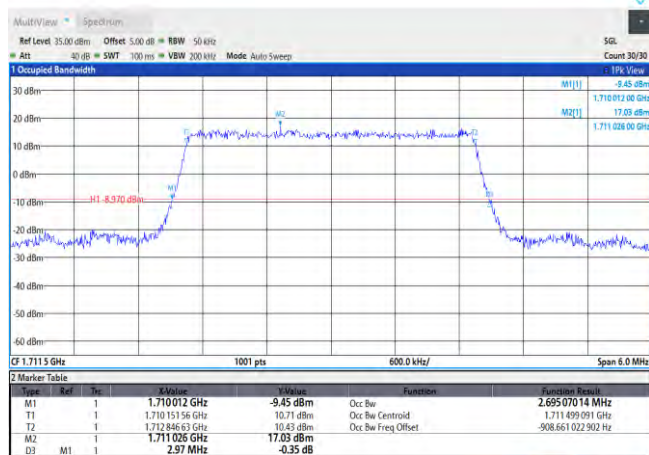
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Band4-1.4MHz-64QAM-20393-6RB#0



15:12:04 30.03.2022

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



15:13:16 30.03.2022

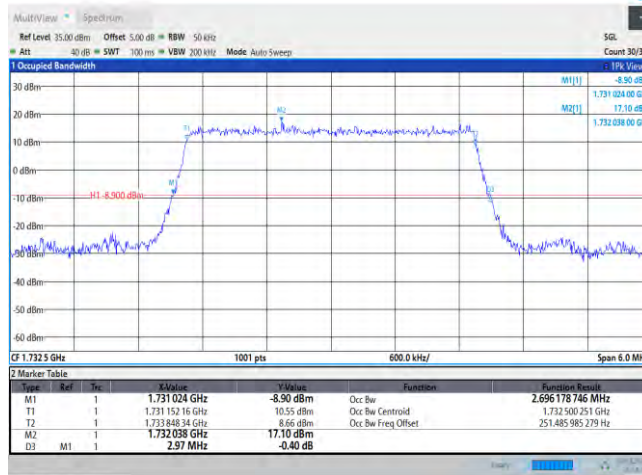


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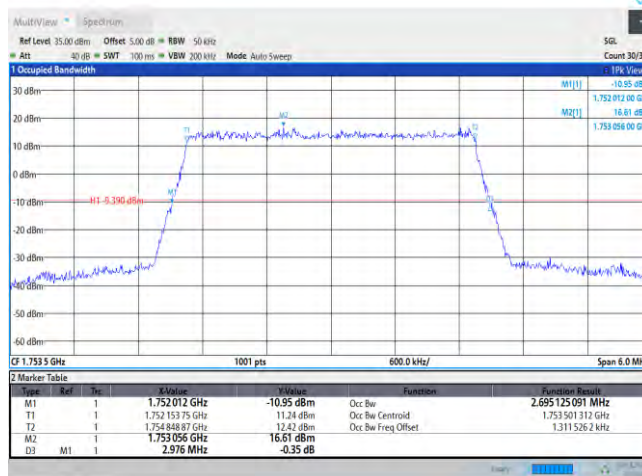
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Band4-3MHz-QPSK-20175-15RB#0



15:14:10 30.03.2022

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

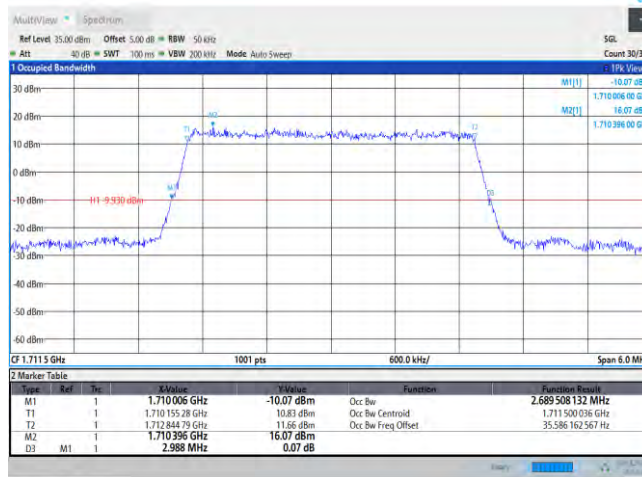


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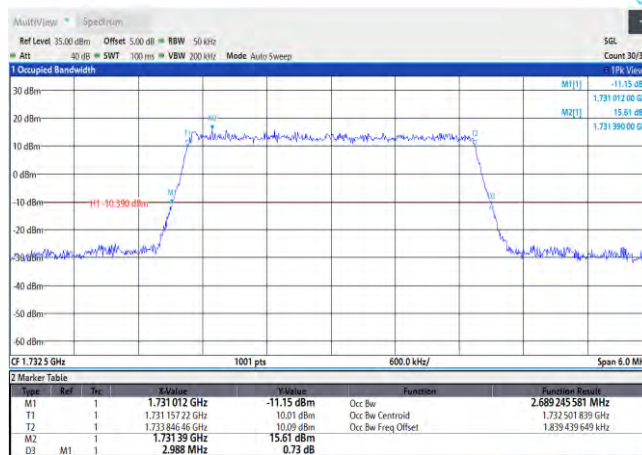
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Band4-3MHz-16QAM-19965-15RB#0



15:13:34 30.03.2022

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



15:14:28 30.03.2022



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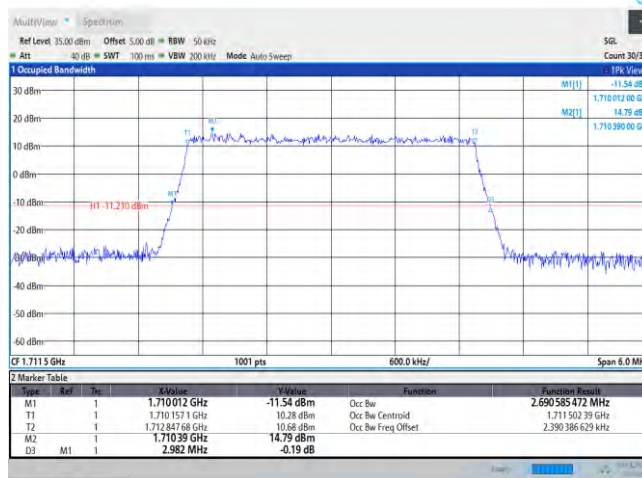
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Band4-3MHz-16QAM-20385-15RB#0



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



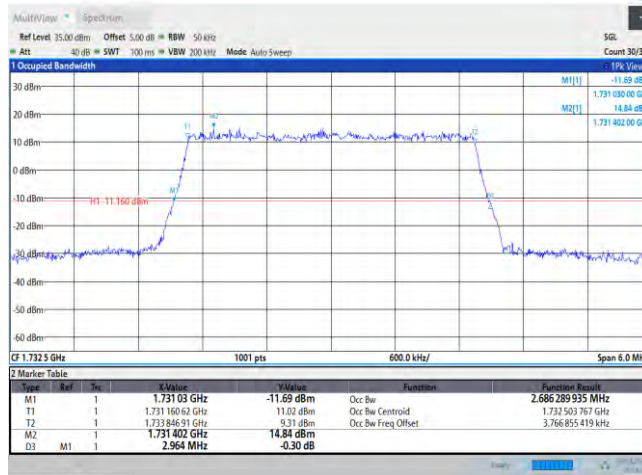
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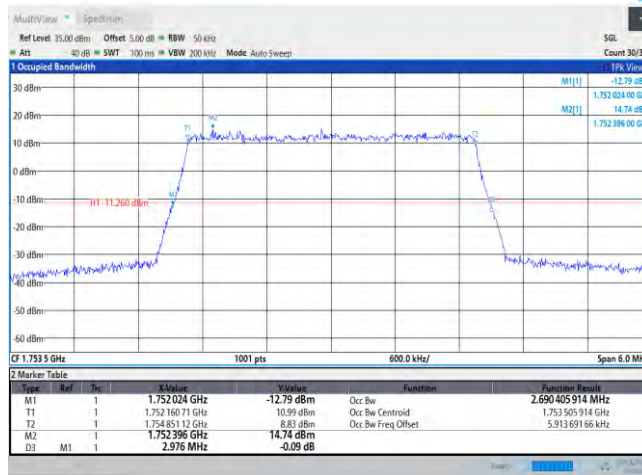
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Band4-3MHz-64QAM-20175-15RB#0



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



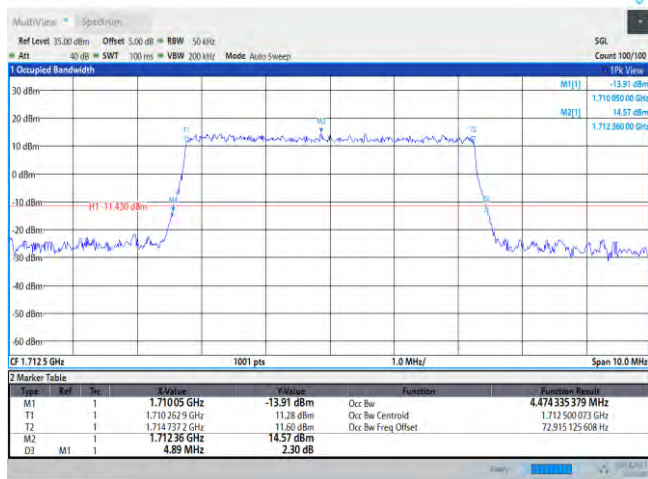
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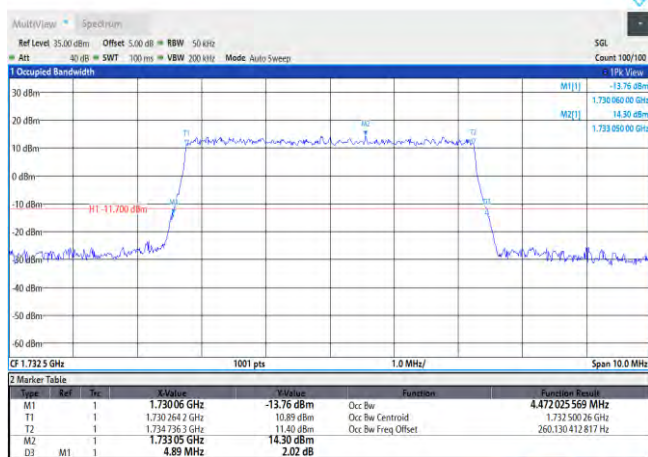
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Band4-5MHz-QPSK-19975-25RB#0



15:17:00 30.03.2022

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



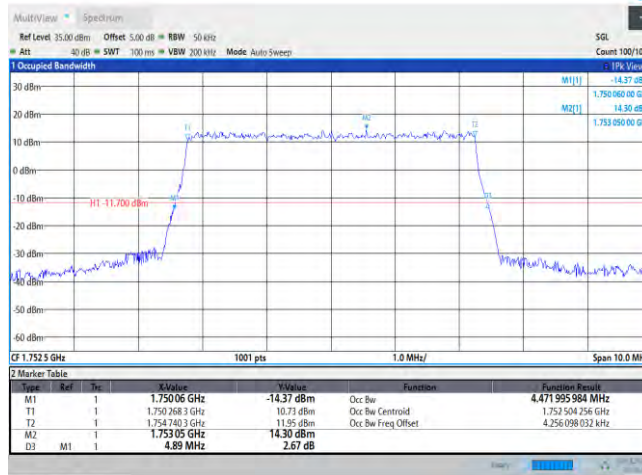
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Band4-5MHz-QPSK-20375-25RB#0



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

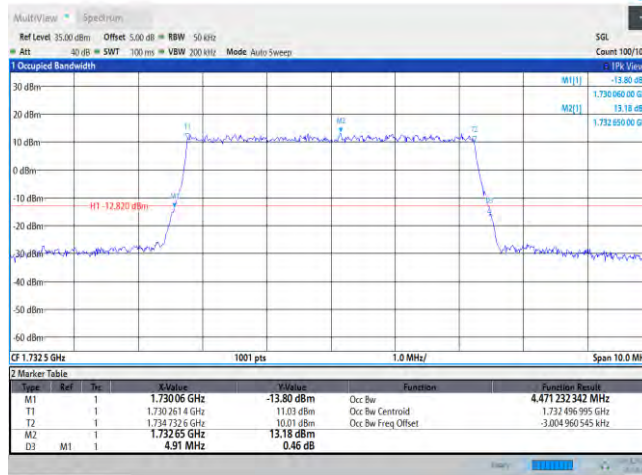


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Band4-5MHz-16QAM-20175-25RB#0



15:18:41 30.03.2022

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



15:19:57 30.03.2022



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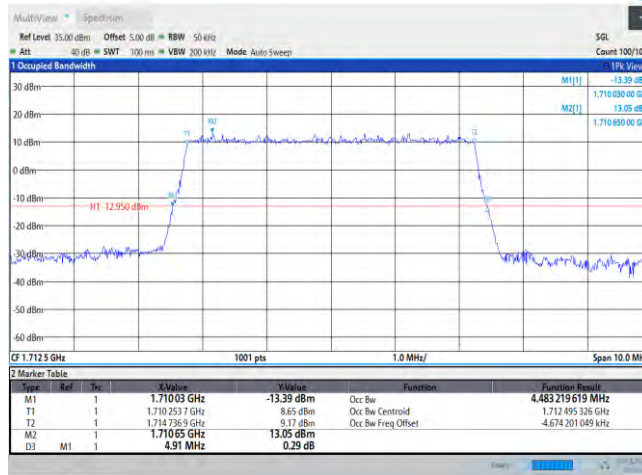
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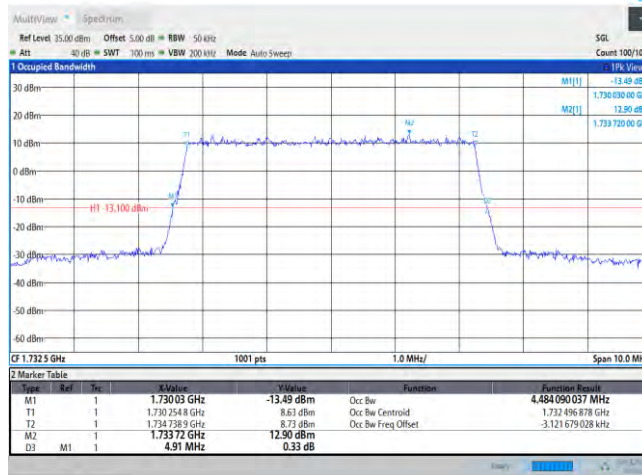
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Band4-5MHz-64QAM-19975-25RB#0



15:17:51 30.03.2022

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



15:19:07 30.03.2022



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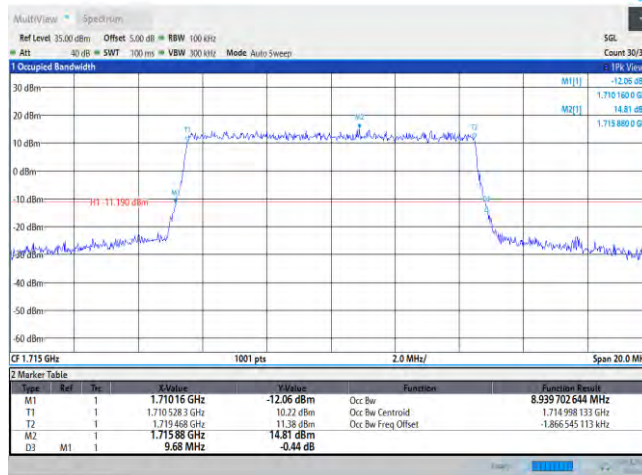
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Band4-5MHz-64QAM-20375-25RB#0



15:20:22 30.03.2022

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



15:21:34 30.03.2022

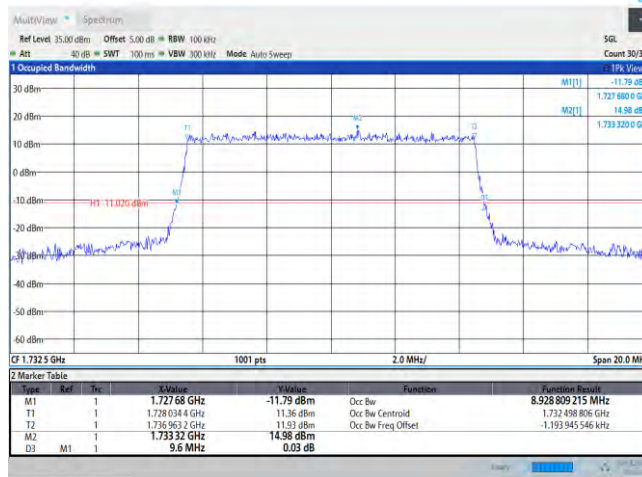


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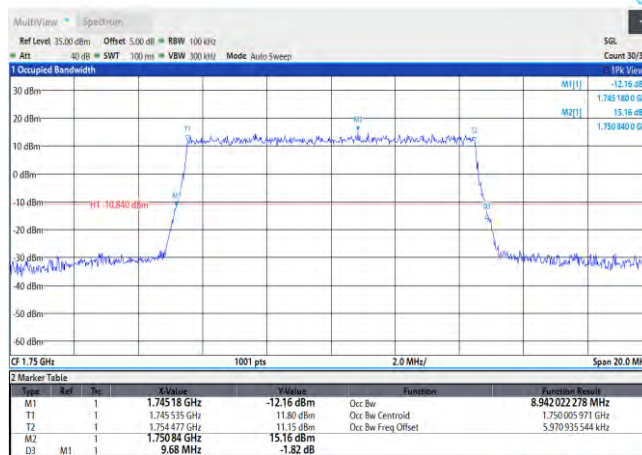
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Band4-10MHz-QPSK-20175-50RB#0



15:22:29 30.03.2022

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



15:23:23 30.03.2022

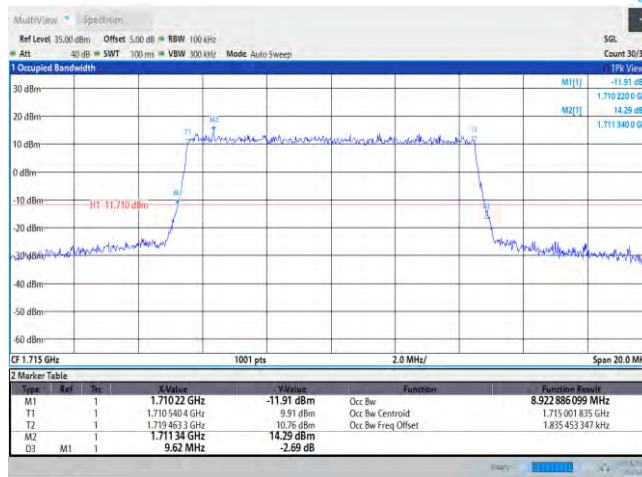


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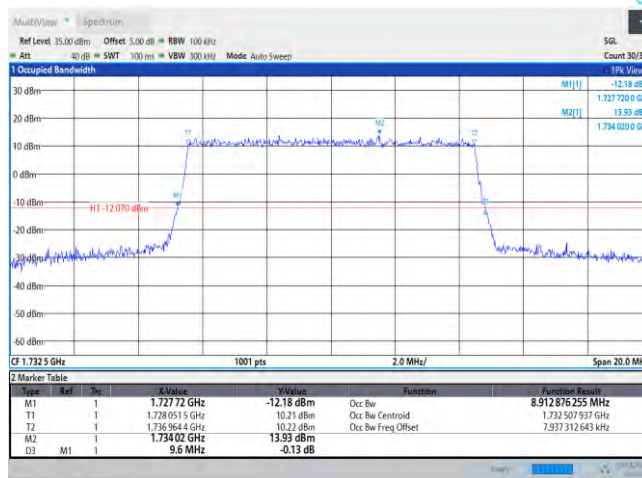
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Band4-10MHz-16QAM-20000-50RB#0



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

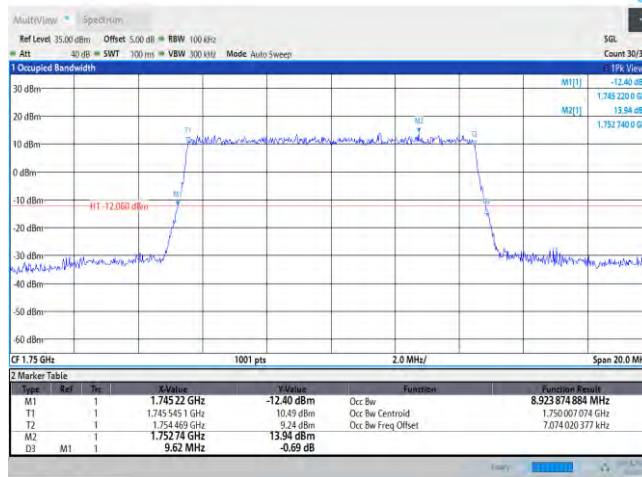


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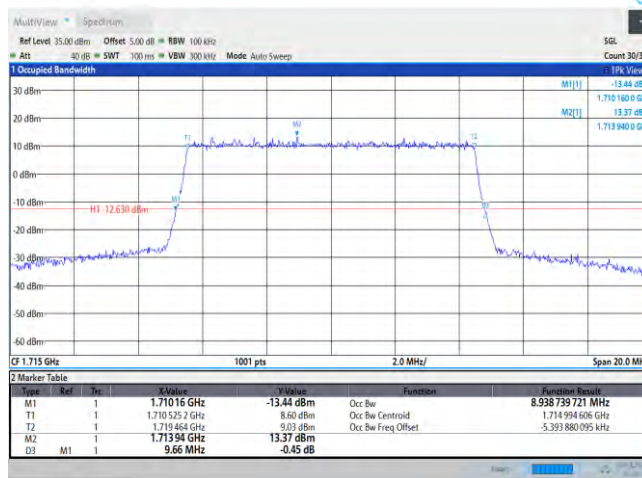
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Band4-10MHz-16QAM-20350-50RB#0



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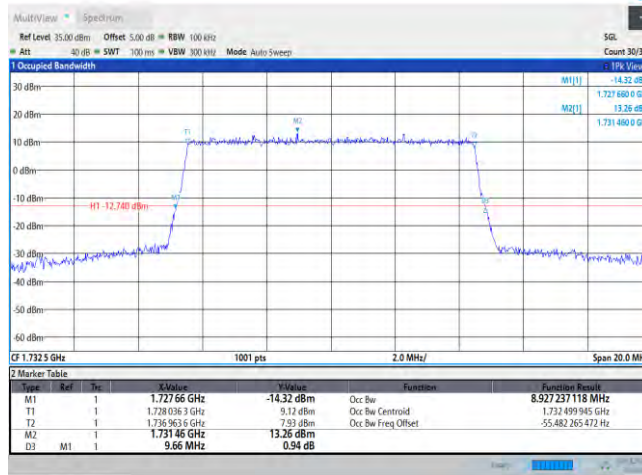
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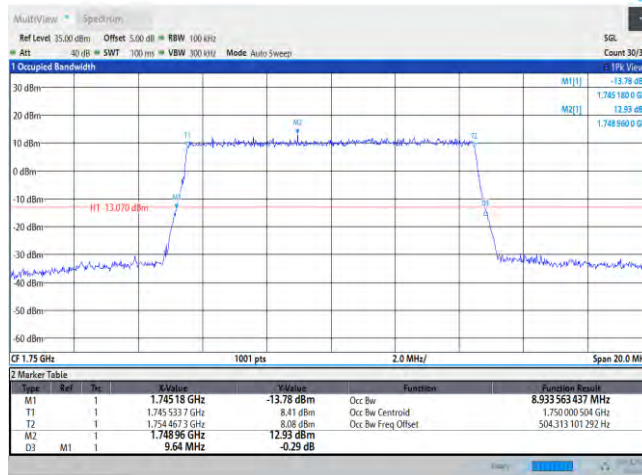
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Band4-10MHz-64QAM-20175-50RB#0



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



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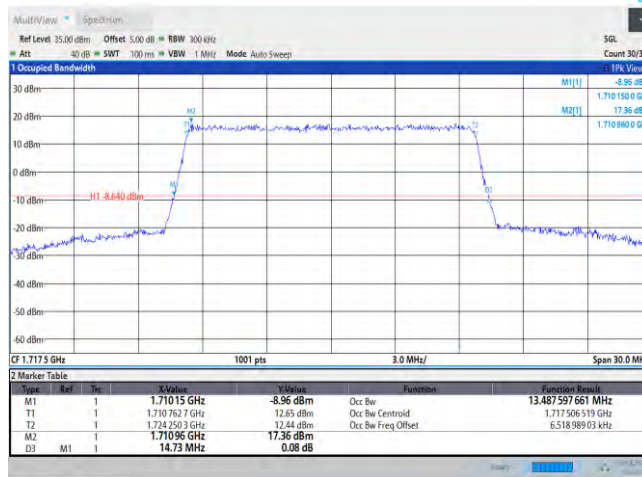
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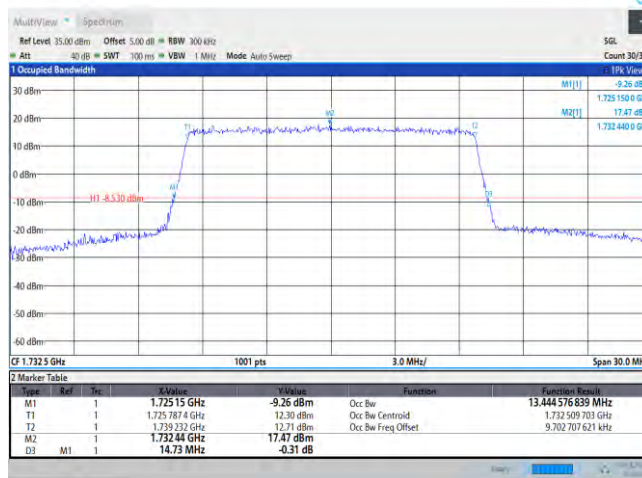
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Band4-15MHz-QPSK-20025-75RB#0



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



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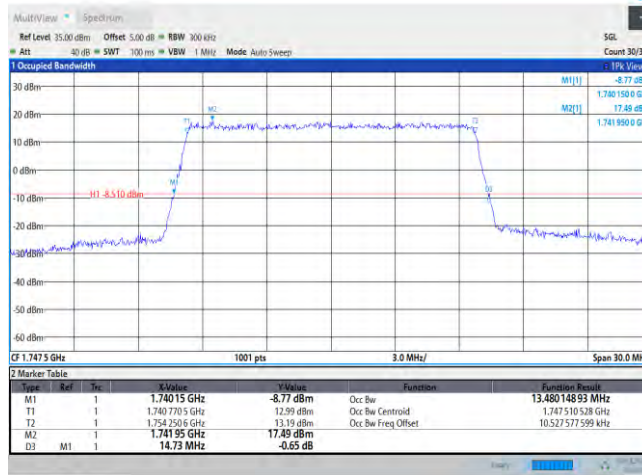


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Band4-15MHz-16QAM-20025-75RB#0



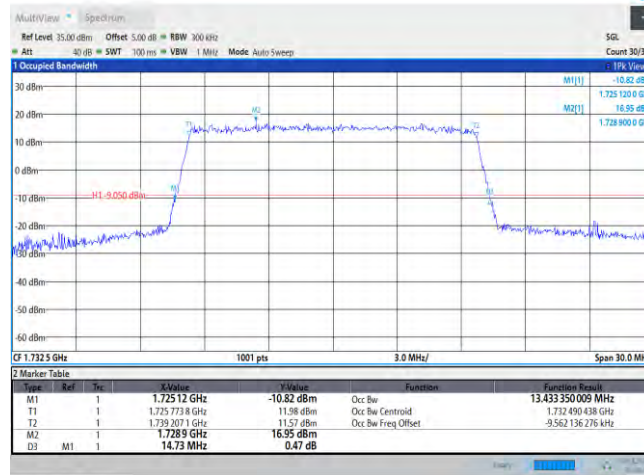
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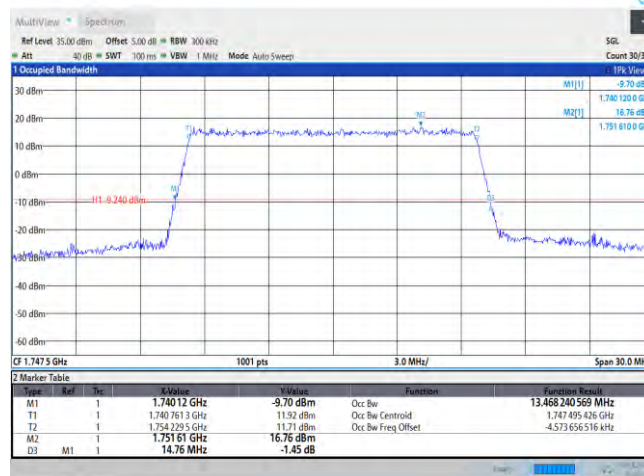
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Band4-15MHz-16QAM-20175-75RB#0



15:26:24 30.03.2022

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



15:27:18 30.03.2022

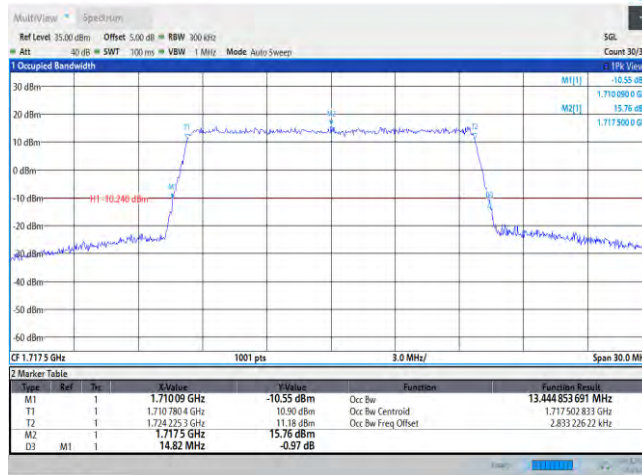


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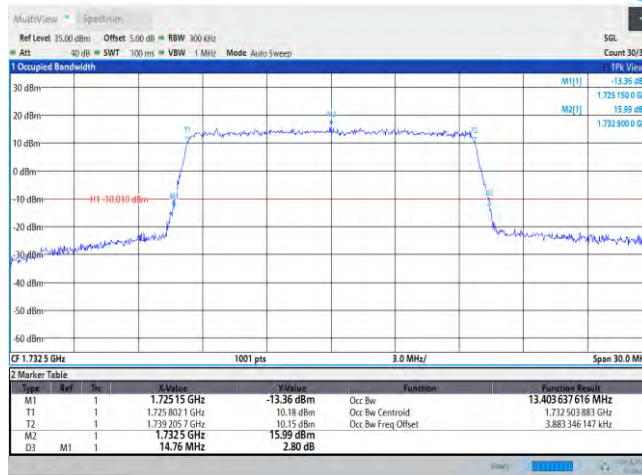
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Band4-15MHz-64QAM-20025-75RB#0



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



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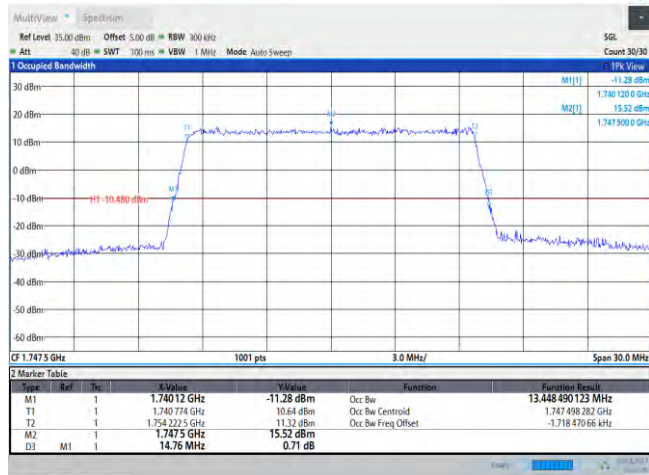


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Band4-15MHz-64QAM-20325-75RB#0



15:27:37 30.03.2022

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



15:28:49 30.03.2022



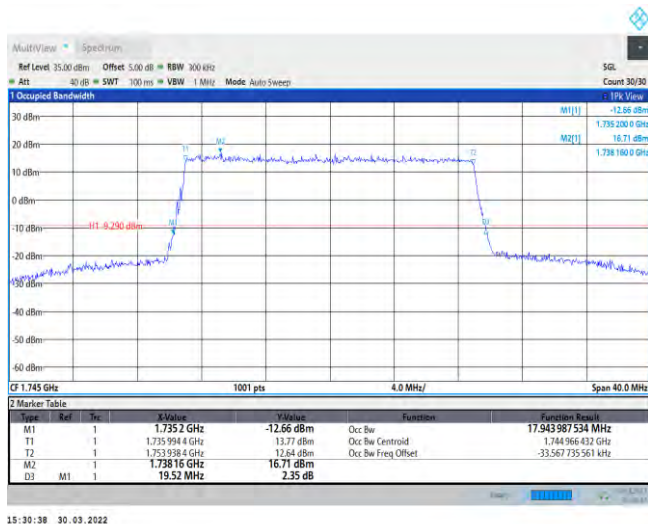
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Band4-20MHz-QPSK-20175-100RB#0



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

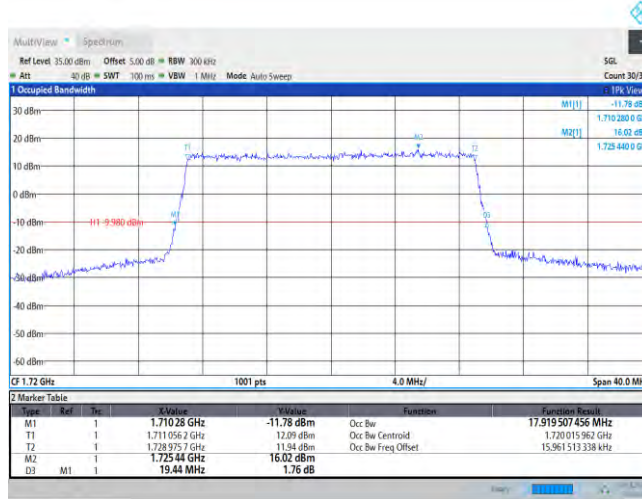


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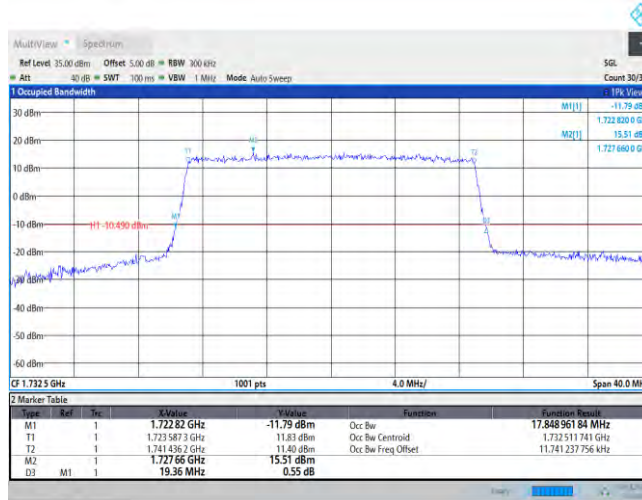
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Band4-20MHz-16QAM-20050-100RB#0



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

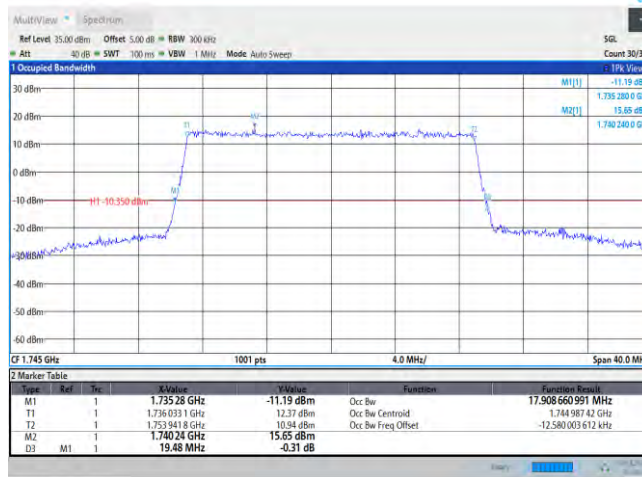


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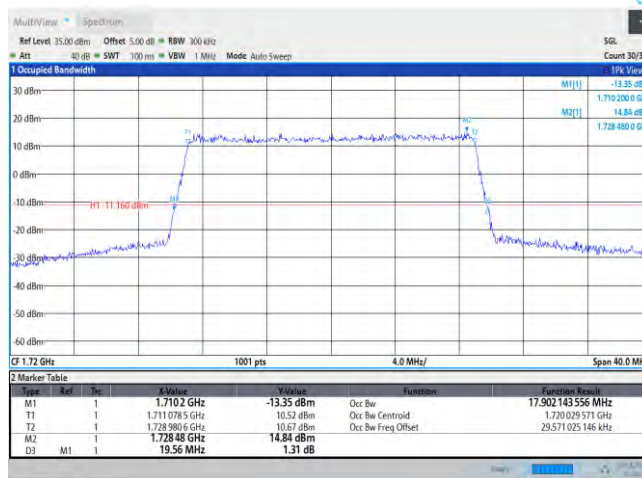
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Band4-20MHz-16QAM-20300-100RB#0



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



15:29:25 30.03.2022

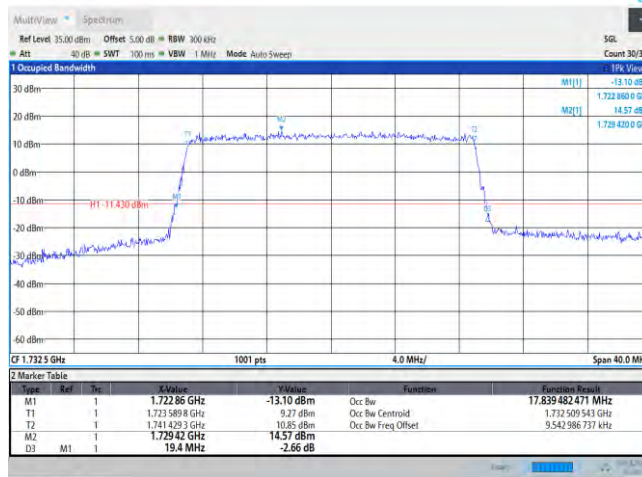


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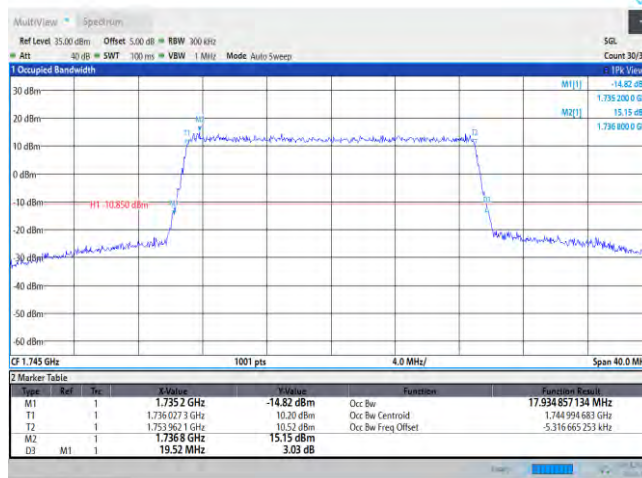
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Band4-20MHz-64QAM-20175-100RB#0



15:30:19 30.03.2022

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



15:31:14 30.03.2022



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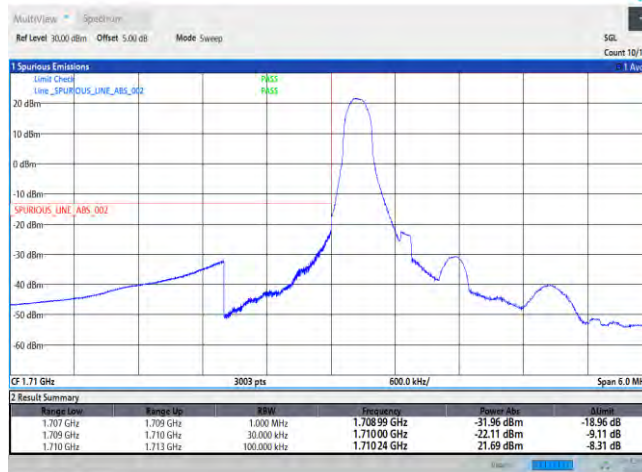
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Band Edge

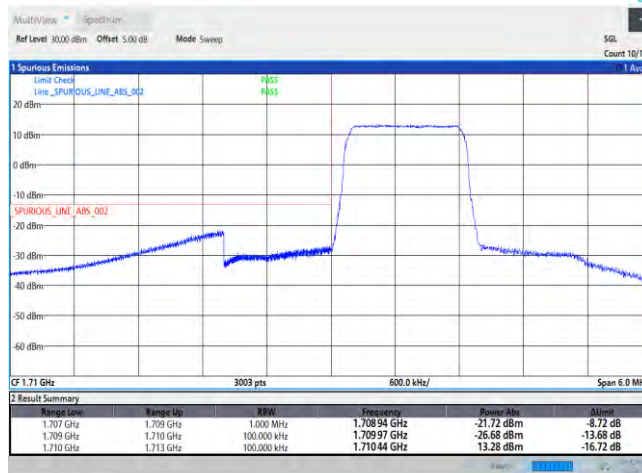
Test Graphs

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



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



15:33:15 30.03.2022



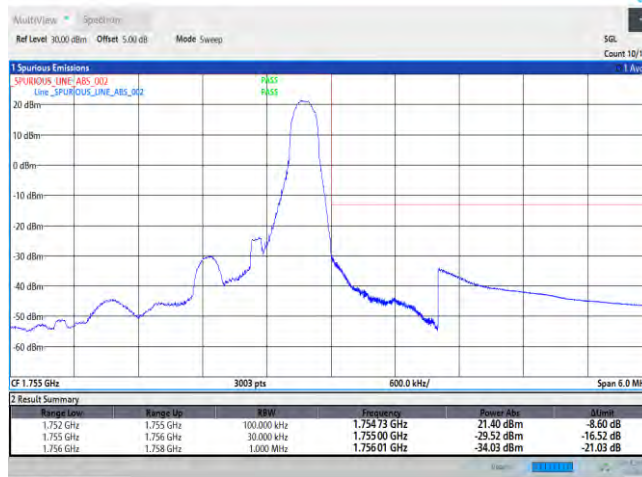
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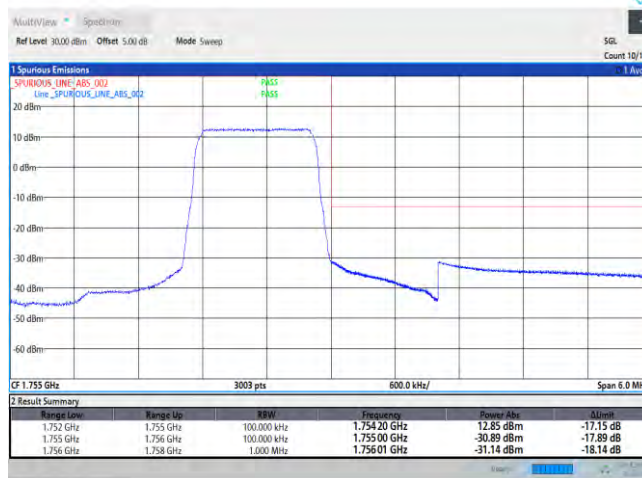
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Band4-1.4MHz-QPSK-20393-1RB#5



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



15:35:16 30.03.2022

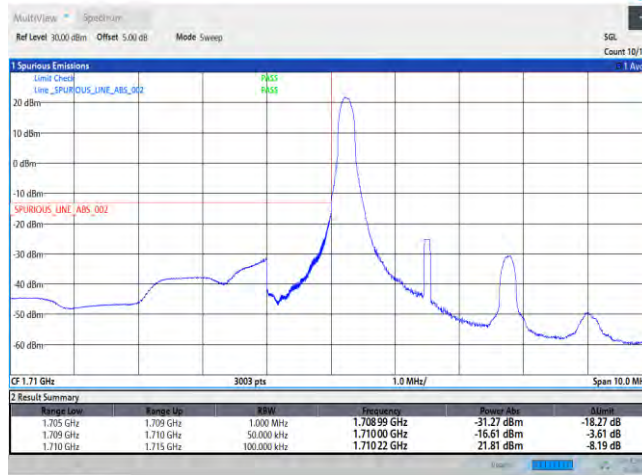


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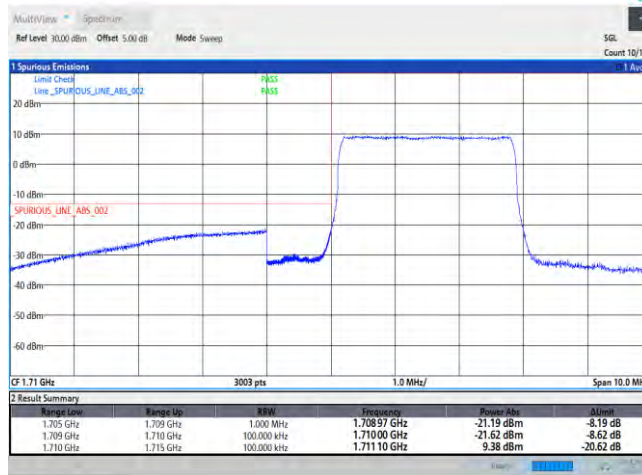
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Band4-3MHz-QPSK-19965-1RB#0



15:36:49 30.03.2022

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



15:37:18 30.03.2022



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

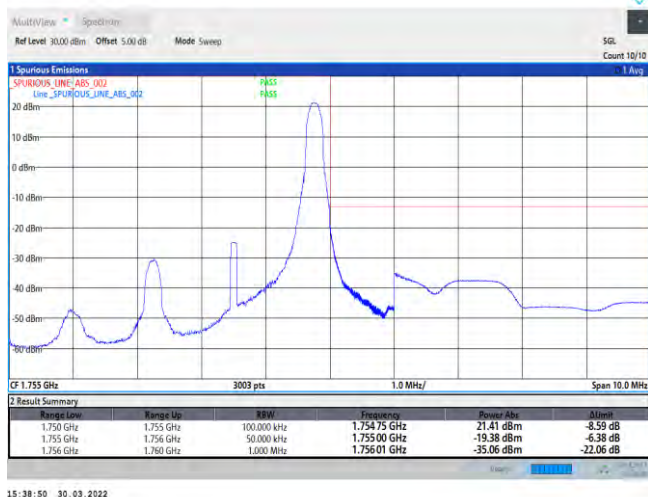
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Band4-3MHz-QPSK-20385-1RB#14



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



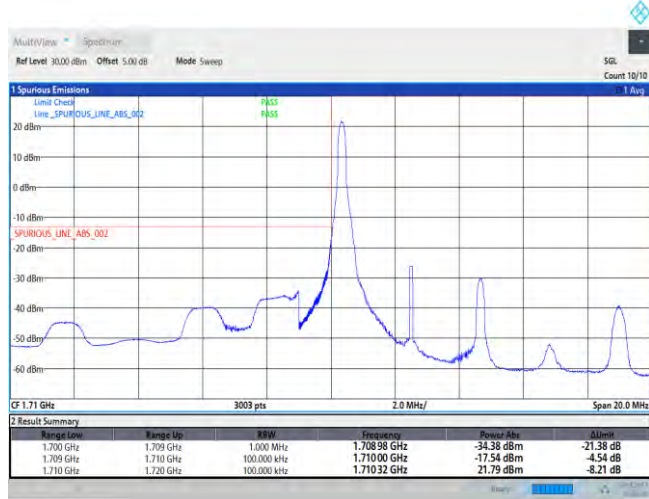
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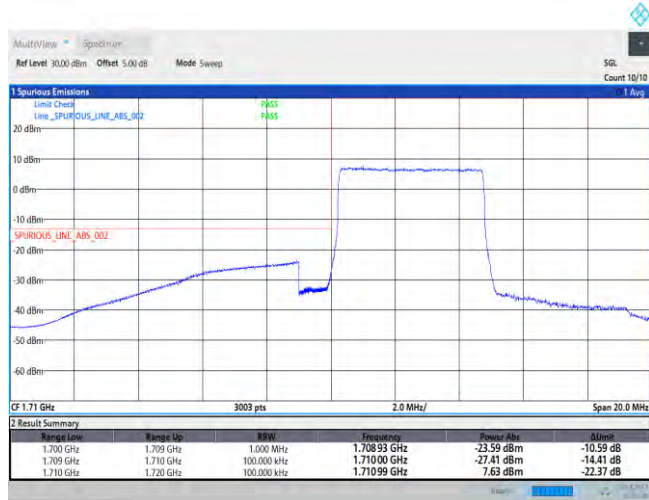
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Band4-5MHz-QPSK-19975-1RB#0



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



15:41:21 30.03.2022

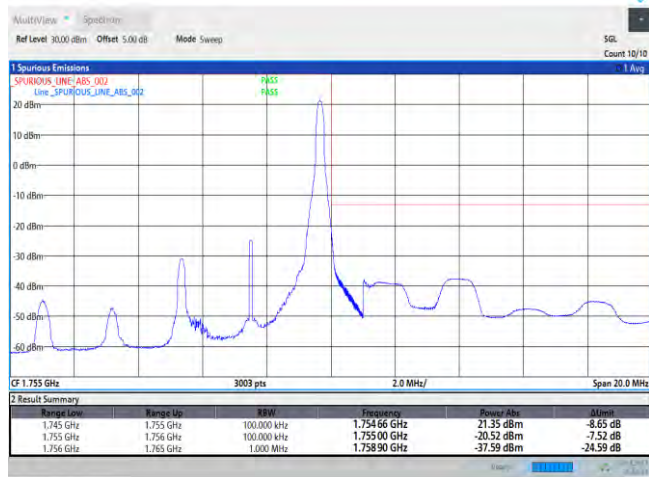


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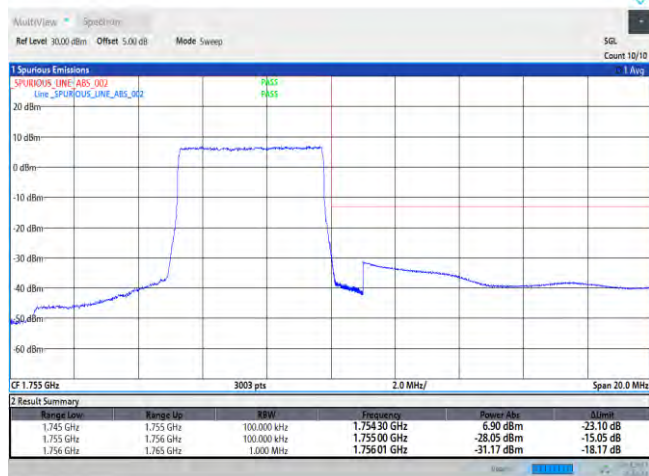
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Band4-5MHz-QPSK-20375-1RB#24



15:42:53 30.03.2022

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



15:43:22 30.03.2022

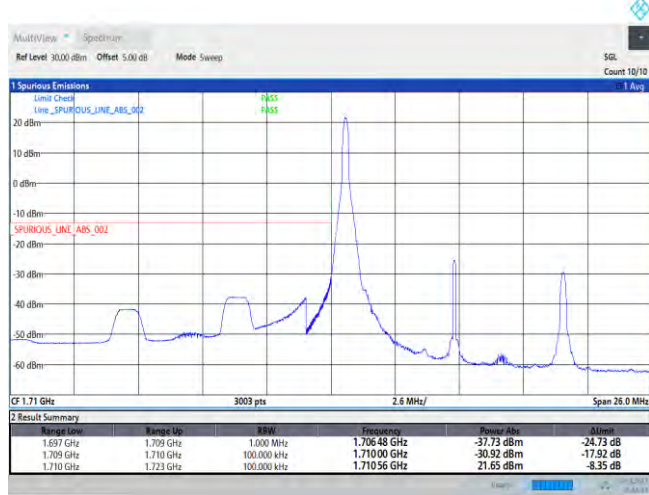


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Band4-10MHz-QPSK-20000-1RB#0



15:44:53 30.03.2022

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



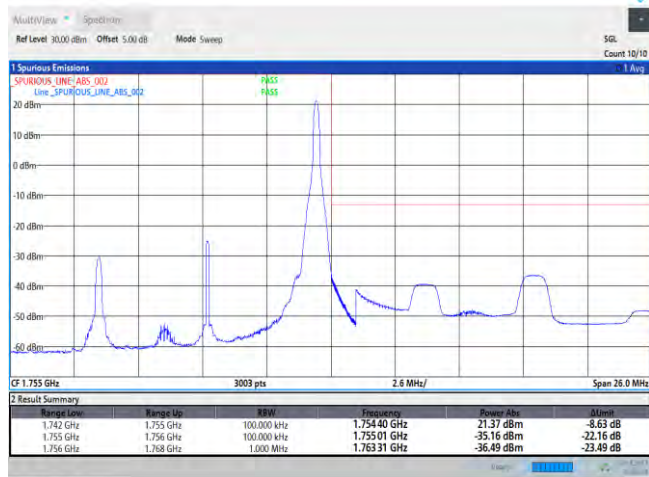
15:45:23 30.03.2022



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



15:46:54 30.03.2022

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



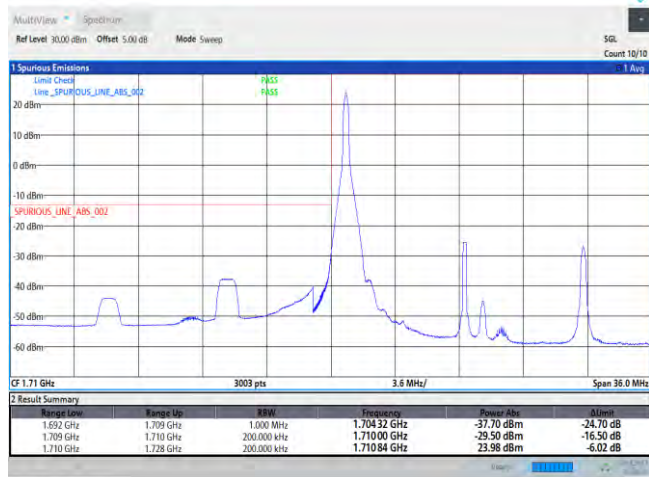
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Band4-15MHz-QPSK-20025-1RB#0



15:48:56 30.03.2022

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



15:49:25 30.03.2022



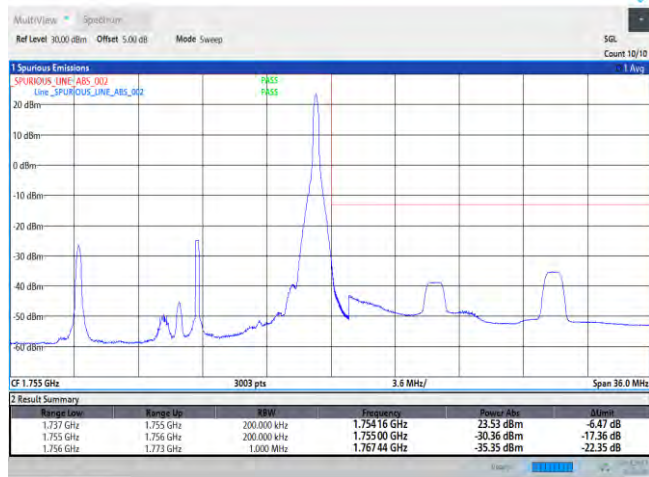
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Band4-15MHz-QPSK-20325-1RB#74



15:50:57 30.03.2022

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



15:51:26 30.03.2022



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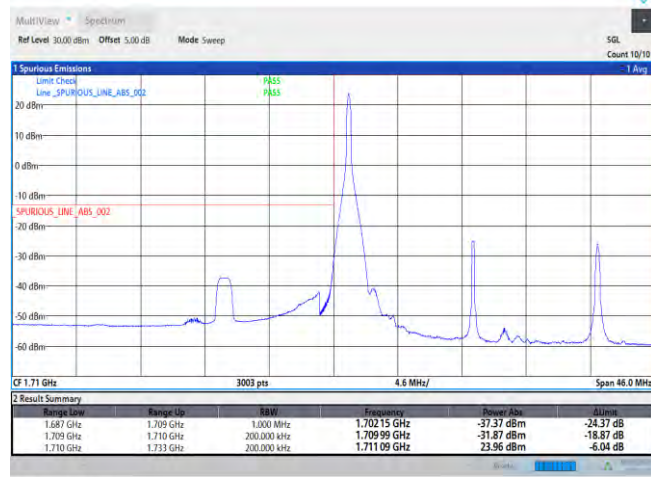
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Band4-20MHz-QPSK-20050-1RB#0



15:52:58 30.03.2022

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



15:53:27 30.03.2022

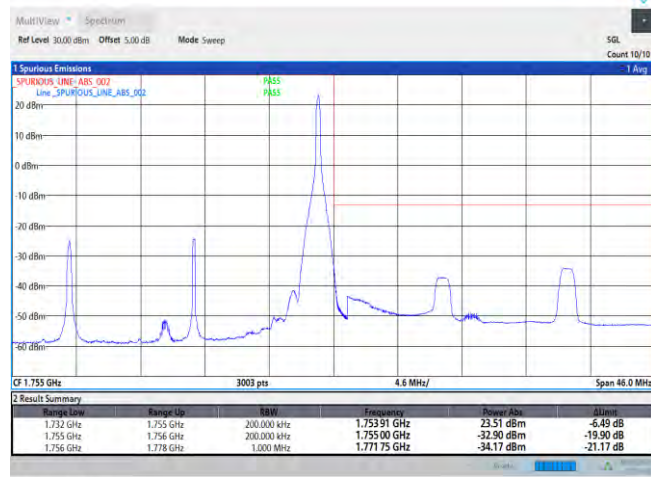


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Band4-20MHz-QPSK-20300-1RB#99



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



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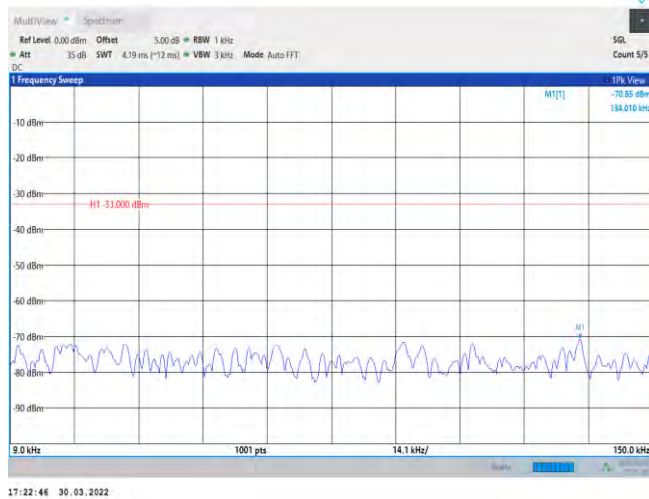
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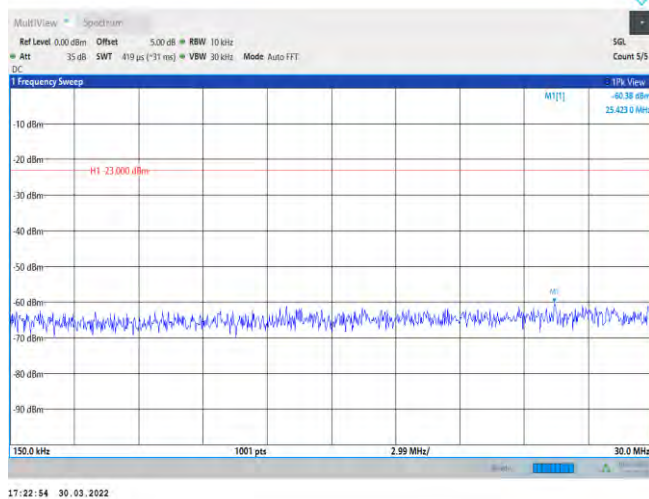
Conducted Spurious Emission

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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Wireless Laboratory

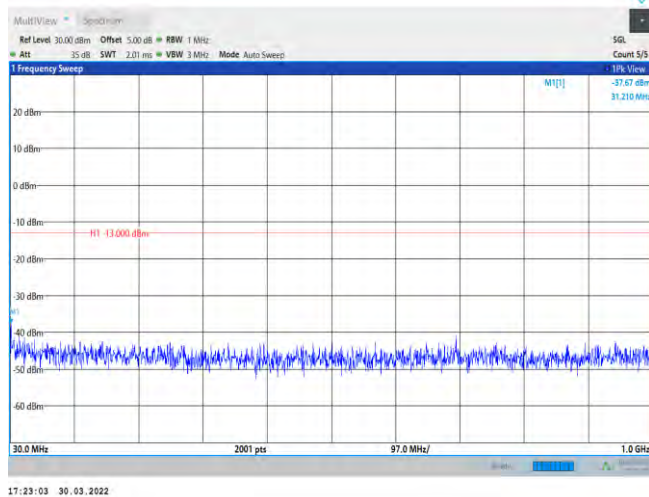
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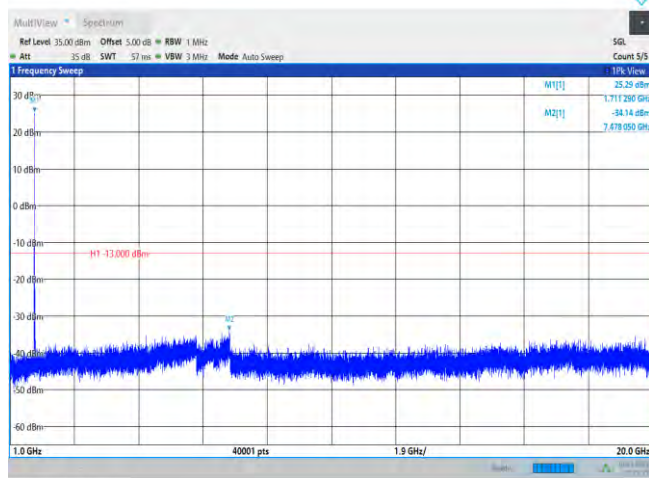
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



17:23:03 30.03.2022

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



17:23:12 30.03.2022

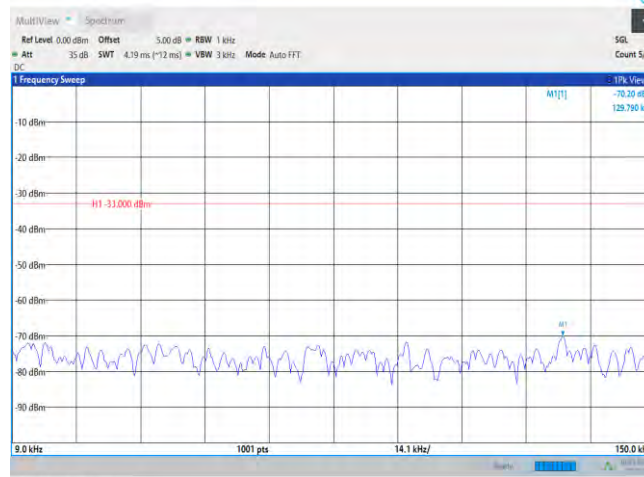


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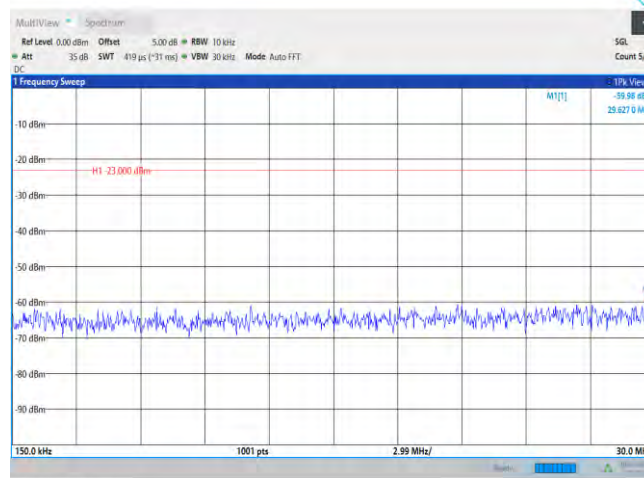
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



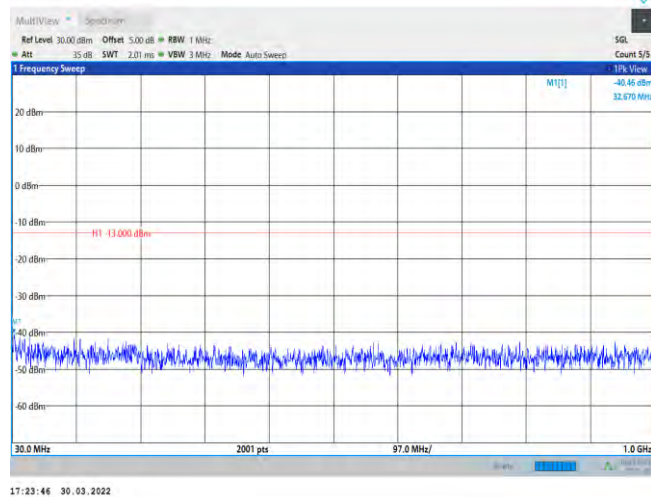
Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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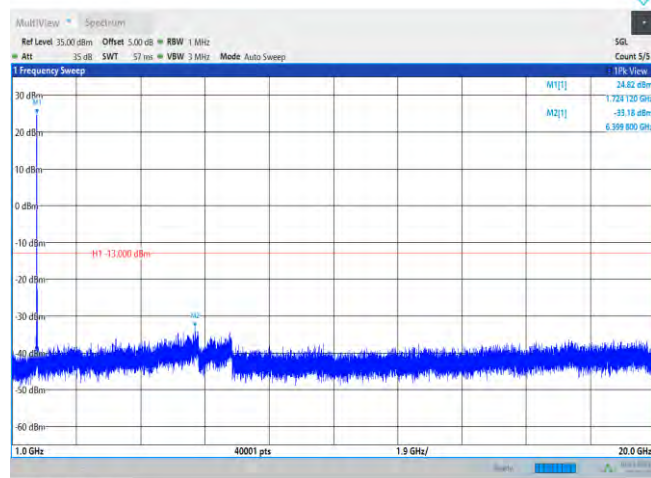
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



17:23:46 30.03.2022

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



17:23:55 30.03.2022



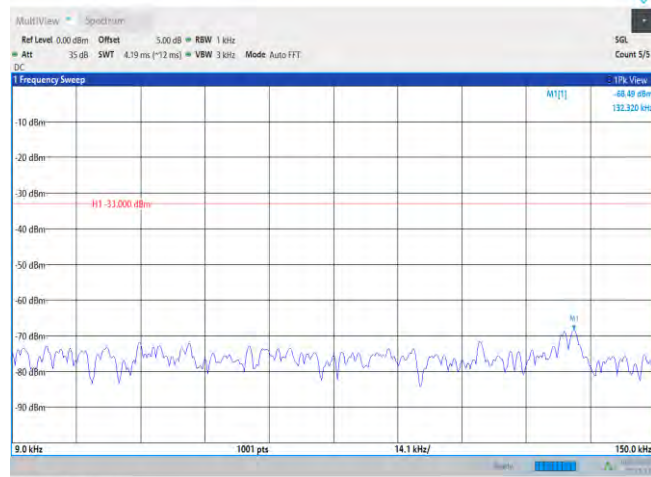
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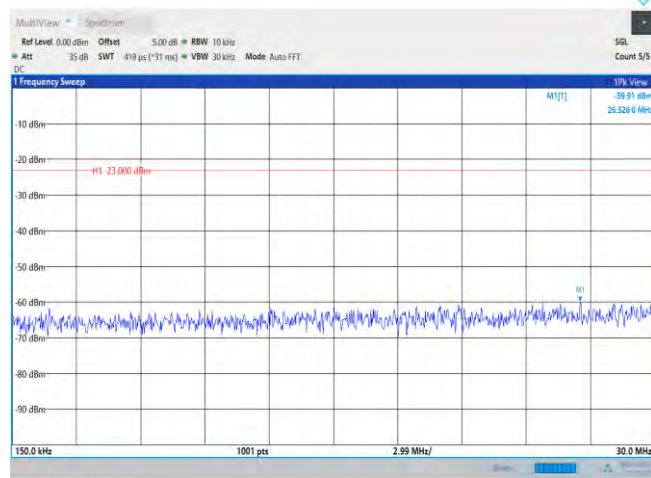
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



17:24:22 30.03.2022



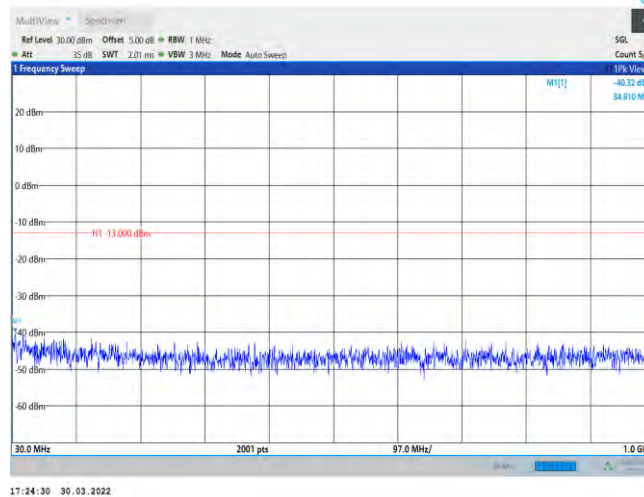
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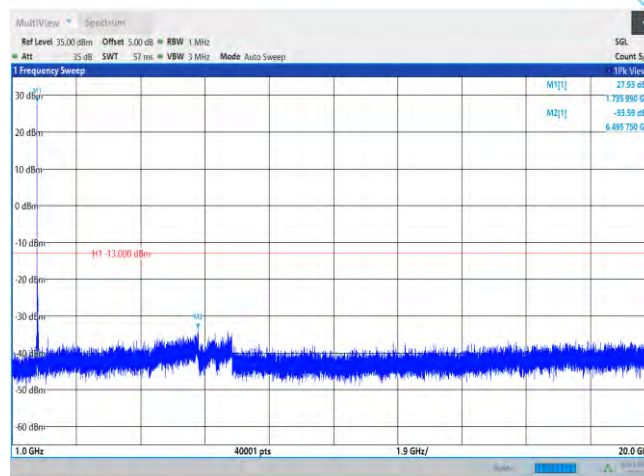
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



17:24:30 30.03.2022

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



17:24:39 30.03.2022



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Field Strength of Spurious Radiation

Test Band = _Band4 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	64.57	-112.09	-47.52	-13.00	34.52	125	281	Horizontal
2	5133	57.27	-107.65	-50.38	-13.00	37.38	142	84	Horizontal
3	6844.3600	48.57	-103.51	-54.94	-13.00	41.94	236	154	Horizontal
4	8555.4500	45.97	-99.06	-53.09	-13.00	40.09	166	156	Horizontal
5	10266.5400	42.66	-95.66	-53.00	-13.00	40.00	194	226	Horizontal
6	11977.6300	39.94	-93.83	-53.89	-13.00	40.89	172	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	58.54	-112.09	-53.55	-13.00	40.55	149	347	Vertical
2	5133.2700	61.12	-107.65	-46.53	-13.00	33.53	175	97	Vertical
3	6844.3600	49.95	-103.51	-53.56	-13.00	40.56	233	82	Vertical
4	8555.4500	47.49	-99.06	-51.57	-13.00	38.57	162	97	Vertical
5	10266.5400	42.92	-95.66	-52.74	-13.00	39.74	155	196	Vertical
6	11977.6300	40.26	-93.83	-53.57	-13.00	40.57	105	158	Vertical



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Test Band = _Band4 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	68.83	-112.06	-43.23	-13.00	30.23	184	282	Horizontal
2	5170.7700	60.65	-107.59	-46.94	-13.00	33.94	172	25	Horizontal
3	6894.3600	48.81	-103.41	-54.60	-13.00	41.60	236	85	Horizontal
4	8617.9500	45.45	-98.88	-53.43	-13.00	40.43	258	268	Horizontal
5	10341.5400	42.64	-95.47	-52.83	-13.00	39.83	149	358	Horizontal
6	12065.1300	43.77	-93.68	-49.91	-13.00	36.91	159	56	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	67.78	-112.06	-44.28	-13.00	31.28	158	339	Vertical
2	5170.7700	65.61	-107.59	-41.98	-13.00	28.98	147	97	Vertical
3	6894.3600	49.38	-103.41	-54.03	-13.00	41.03	239	82	Vertical
4	8617.9500	46.73	-98.88	-52.15	-13.00	39.15	125	4	Vertical
5	10341.5400	43.92	-95.47	-51.55	-13.00	38.55	102	183	Vertical
6	12065.1300	47.89	-93.68	-45.79	-13.00	32.79	188	355	Vertical



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Test Band = _Band4 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	57.62	-112.03	-54.41	-13.00	41.41	185	299	Horizontal
2	5208.2700	53.34	-107.54	-54.20	-13.00	41.20	144	85	Horizontal
3	6944.3600	47.10	-103.10	-56.00	-13.00	43.00	119	99	Horizontal
4	8680.4500	46.06	-99.00	-52.94	-13.00	39.94	275	29	Horizontal
5	10416.5400	41.80	-95.36	-53.56	-13.00	40.56	105	71	Horizontal
6	12152.6300	41.09	-93.59	-52.50	-13.00	39.50	156	255	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3471.75	55.14	-112.03	-56.89	-13.00	43.89	158	155	Vertical
2	5208.2700	59.33	-107.54	-48.21	-13.00	35.21	145	99	Vertical
3	6944.3600	50.59	-103.10	-52.51	-13.00	39.51	233	85	Vertical
4	8680.4500	46.56	-99.00	-52.44	-13.00	39.44	269	112	Vertical
5	10416.5400	41.44	-95.36	-53.92	-13.00	40.92	199	359	Vertical
6	12152.6300	43.85	-93.59	-49.74	-13.00	36.74	170	145	Vertical



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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	20050	100RB#0	VL	NT	-2.00	-0.002522	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-2.70	-0.003405	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-3.20	-0.004035	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	4.90	0.002828	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-5.10	-0.002944	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-3.70	-0.004666	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	0.80	0.001009	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-3.00	-0.003783	PASS



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Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-1.20	-0.000638	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-0.80	-0.000426	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	-1.00	-0.000532	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-2.60	-0.001383	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-1.50	-0.000798	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-1.50	-0.000798	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-3.00	-0.001596	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	0.10	0.000053	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-3.70	-0.001968	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-0.40	-0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	9.30	0.005368	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	11.60	0.006696	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-3.40	-0.001962	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	11.80	0.006811	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	9.70	0.005599	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	11.20	0.006465	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	5.70	0.003290	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	10.00	0.005772	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-0.30	-0.000359	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	0.60	0.000717	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	0.60	0.000717	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	0.60	0.000717	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	0.20	0.000239	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-2.30	-0.002750	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	1.10	0.001315	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	1.70	0.002032	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	0.00	0.000000	PASS



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$|\text{MAX}(\Delta f)| 11.8 = \text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	1710.523654	$\cong 1710 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	1754.325461	$\cong 1755 \text{ MHz}$	

The End



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