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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	22.8	25.13	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.84	25.17	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.81	25.14	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.5	23.83	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.22	25.55	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.27	25.6	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.21	25.54	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.28	24.61	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.47	25.8	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.52	25.85	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.49	25.82	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.55	24.88	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.07	24.4	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.1	24.43	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.1	24.43	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.66	22.99	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.55	24.88	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.59	24.92	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.48	24.81	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.43	23.76	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.78	25.11	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.8	25.13	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.82	25.15	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.76	24.09	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.29	22.62	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.31	22.64	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.37	22.7	30	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	18.67	21	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.55	22.88	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.5	22.83	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.47	22.8	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.54	21.87	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.76	23.09	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.83	23.16	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.77	23.1	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.77	22.1	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.81	25.14	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.99	25.32	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.99	25.32	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.59	23.92	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.27	25.6	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.34	25.67	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.22	25.55	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.33	24.66	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.41	25.74	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.58	25.91	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.58	25.91	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.58	24.91	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.11	24.44	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.29	24.62	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.35	24.68	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.72	23.05	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.55	24.88	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.55	24.88	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.43	24.76	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.42	23.75	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.66	24.99	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.84	25.17	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.83	25.16	30	PASS



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Band4	3MHz	16QAM	20385	15RB#0	21.68	24.01	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.33	22.66	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.55	22.88	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.53	22.86	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	18.79	21.12	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.49	22.82	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.58	22.91	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.49	22.82	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.5	21.83	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.64	22.97	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.86	23.19	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.81	23.14	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.73	22.06	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.85	25.18	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.96	25.29	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.07	25.4	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.56	23.89	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.22	25.55	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.23	25.56	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.2	25.53	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.26	24.59	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.25	25.58	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.43	25.76	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.57	25.9	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.47	24.8	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.12	24.45	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.32	24.65	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.38	24.71	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.7	23.03	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.5	24.83	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.44	24.77	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.47	24.8	30	PASS



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Band4	5MHz	16QAM	20175	25RB#0	21.38	23.71	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.45	24.78	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.69	25.02	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.82	25.15	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.56	23.89	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.34	22.67	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.49	22.82	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.58	22.91	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	18.74	21.07	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.52	22.85	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.52	22.85	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.45	22.78	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.42	21.75	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.47	22.8	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.6	22.93	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.83	23.16	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.62	21.95	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.77	25.1	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.04	25.37	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.1	25.43	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.63	23.96	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.06	25.39	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.22	25.55	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.06	25.39	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.28	24.61	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.6	24.93	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.29	25.62	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.49	25.82	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.25	24.58	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.11	24.44	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.34	24.67	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.31	24.64	30	PASS



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Band4	10MHz	16QAM	20175	1RB#0	22.38	24.71	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.47	24.8	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.27	24.6	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.35	23.68	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.87	24.2	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.59	24.92	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.76	25.09	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.35	23.68	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.28	22.61	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.58	22.91	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.5	22.83	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	18.78	21.11	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.19	22.52	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.55	22.88	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.27	22.6	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.37	21.7	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	19.57	21.9	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.49	22.82	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.59	22.92	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.4	21.73	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.84	25.17	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.13	25.46	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.24	25.57	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.76	24.09	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.14	25.47	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.16	25.49	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.09	25.42	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.2	24.53	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.59	24.92	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.14	25.47	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.65	25.98	30	PASS



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Band4	15MHz	16QAM	20025	1RB#0	22.06	24.39	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.46	24.79	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.57	24.9	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.79	23.12	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.45	24.78	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.42	24.75	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.31	24.64	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.31	23.64	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.81	24.14	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.43	24.76	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.96	25.29	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.27	23.6	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.32	22.65	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.58	22.91	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.55	22.88	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	18.9	21.23	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.45	22.78	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.43	22.76	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.36	22.69	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.29	21.62	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	19.66	21.99	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.39	22.72	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.95	23.28	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.31	21.64	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.79	25.12	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.17	25.5	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.09	25.42	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.84	24.17	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.05	25.38	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.16	25.49	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.99	25.32	30	PASS



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Band4	20MHz	QPSK	20175	100RB#0	22.19	24.52	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.58	24.91	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.98	25.31	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.55	25.88	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.12	24.45	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.12	24.45	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.42	24.75	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.33	24.66	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.81	23.14	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.31	24.64	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.44	24.77	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.32	24.65	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.19	23.52	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.85	24.18	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.26	24.59	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.8	25.13	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.18	23.51	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.27	22.6	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.56	22.89	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.21	22.54	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	18.9	21.23	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.34	22.67	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.38	22.71	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.18	22.51	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.21	21.54	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	19.52	21.85	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.19	22.52	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.8	23.13	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.25	21.58	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	4.96	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.96	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.98	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.78	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.82	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	5.80	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	5.90	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	5.82	13	PASS



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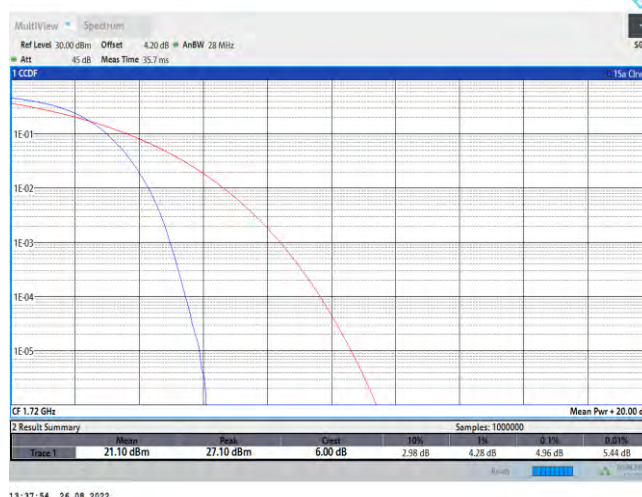
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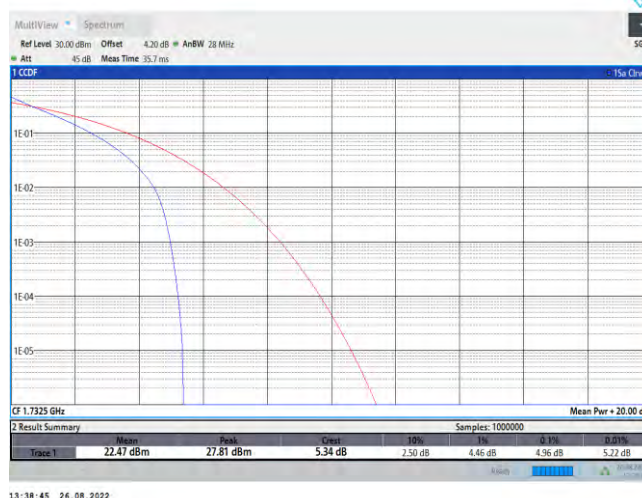
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Test Graphs

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



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



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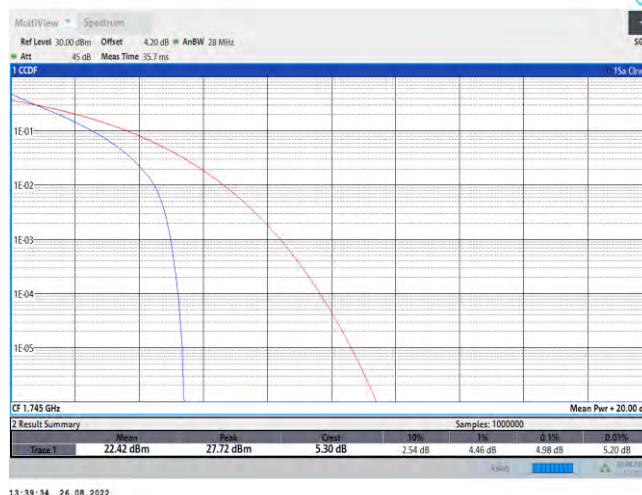
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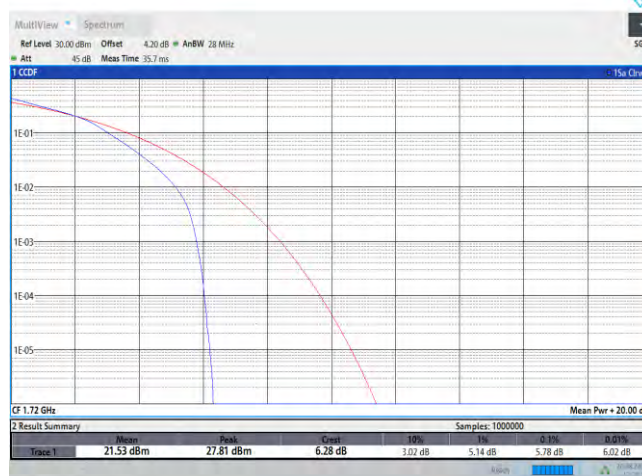
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Band4-20MHz-QPSK-20300-100RB#0



13:39:34 26.08.2022

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



13:38:11 26.08.2022



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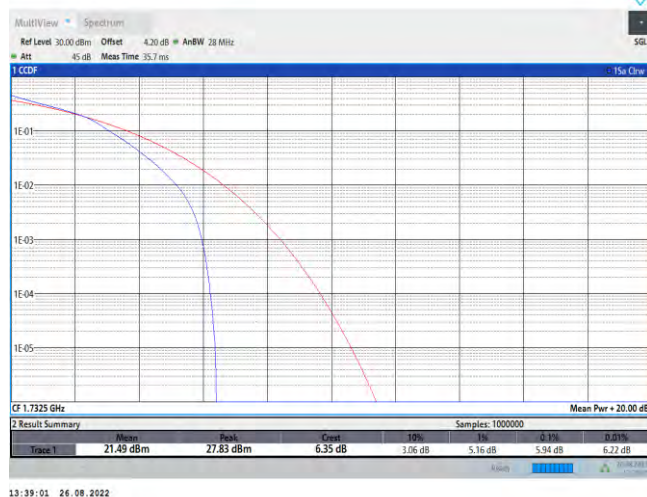
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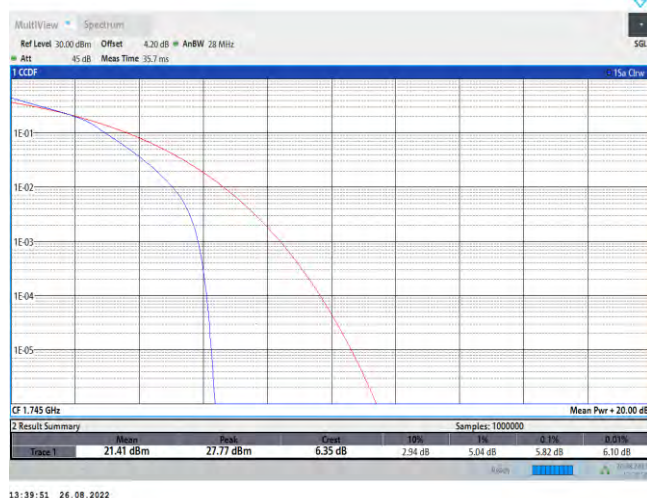
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Band4-20MHz-16QAM-20175-100RB#0



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



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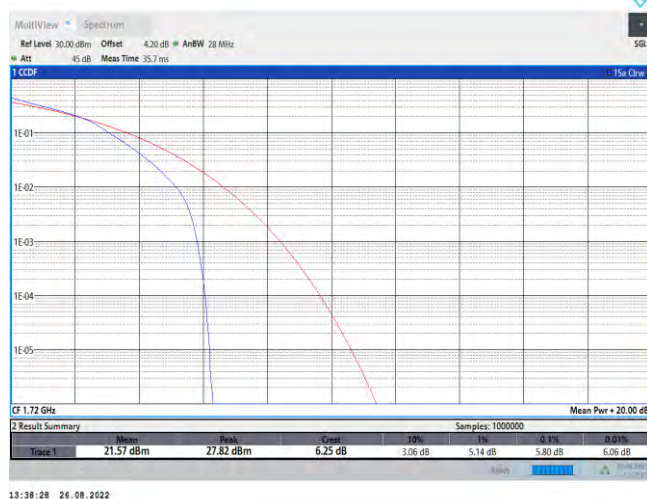
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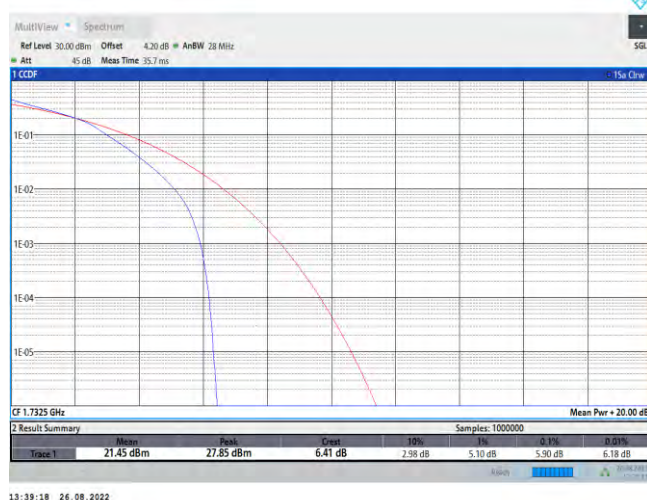
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Band4-20MHz-64QAM-20050-100RB#0



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



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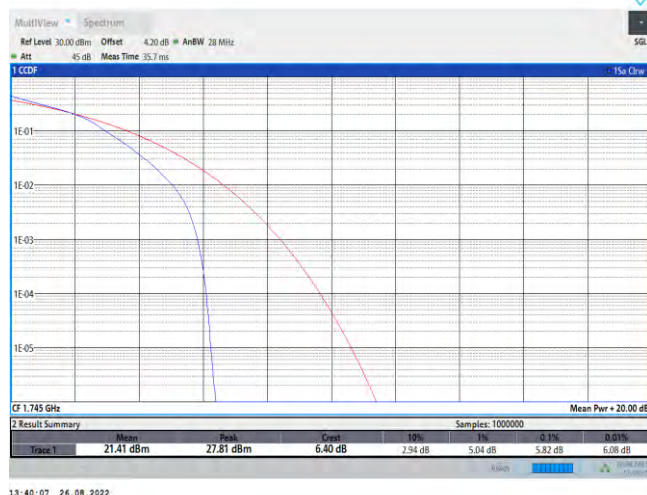
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Band4-20MHz-64QAM-20300-100RB#0



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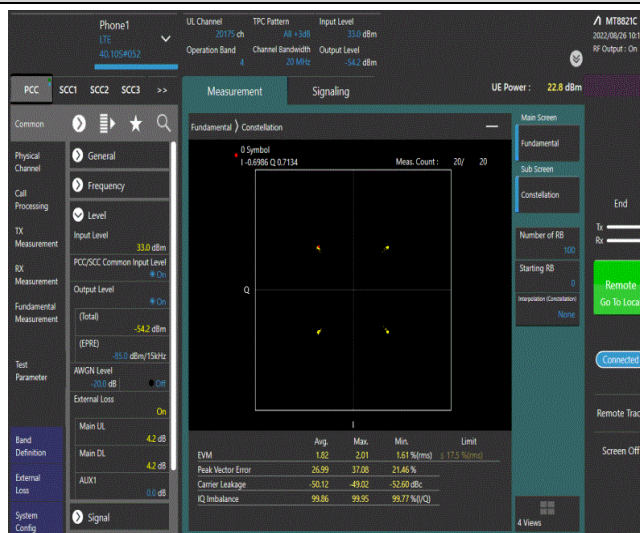
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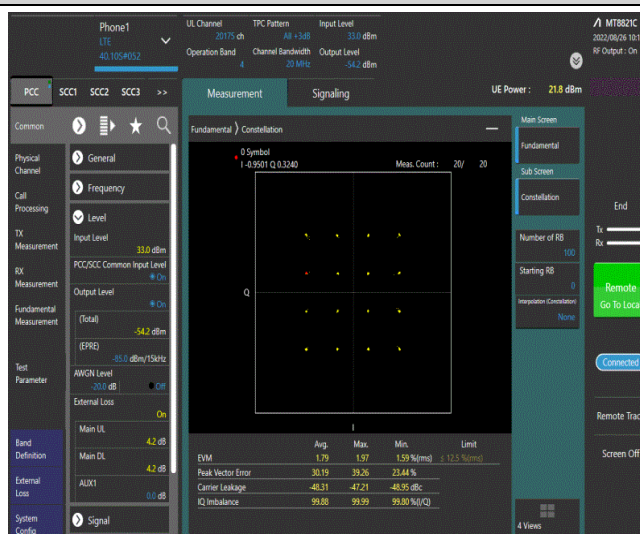
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Band4-20MHz-QPSK-20175-100RB#0



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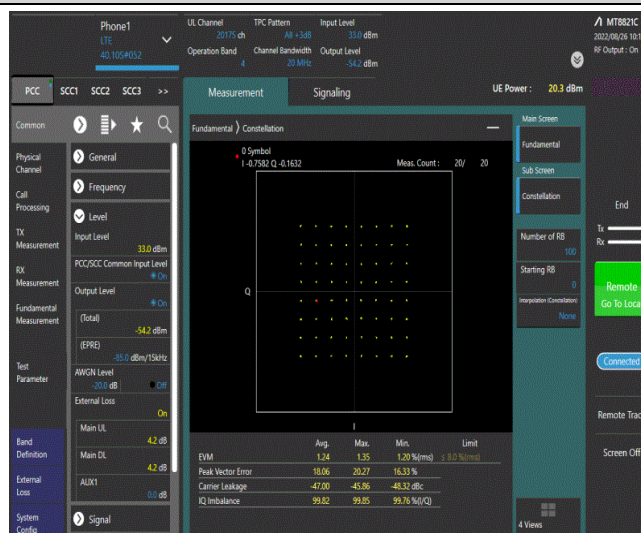
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Band4-20MHz-64QAM-20175-100RB#0



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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	1.093	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	1.09	1.24	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.09	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.694	2.98	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	2.98	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.693	2.98	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.688	2.99	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.688	2.98	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.687	2.98	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.687	2.97	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.686	2.97	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.687	2.97	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.468	4.87	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.467	4.88	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.47	4.88	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.463	4.88	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.47	4.91	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.465	4.88	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.473	4.89	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.90	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.465	4.90	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.927	9.58	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.917	9.58	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.927	9.68	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.912	9.58	PASS



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Band4	10MHz	16QAM	20175	50RB#0	8.908	9.62	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.899	9.58	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.917	9.64	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.922	9.60	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.925	9.62	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.461	14.73	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.457	14.76	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.458	14.76	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.439	14.85	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.455	14.82	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.447	14.70	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.417	14.82	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.433	14.79	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.444	14.67	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.911	19.44	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.921	19.60	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.899	19.44	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.87	19.36	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.878	19.40	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.857	19.40	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.872	19.56	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.871	19.44	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.881	19.56	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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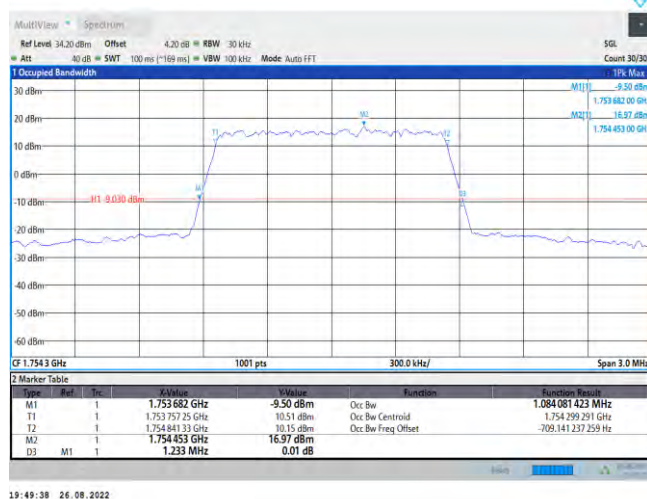
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Band4-1.4MHz-16QAM-19957-6RB#0



19:48:11 26.08.2022



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



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



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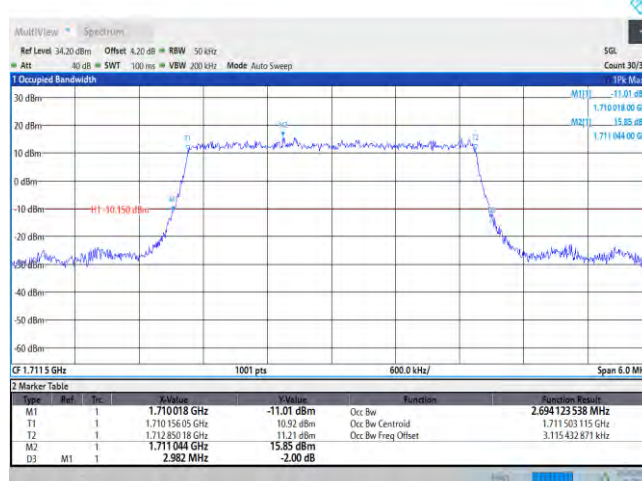
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Band4-1.4MHz-64QAM-20393-6RB#0



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



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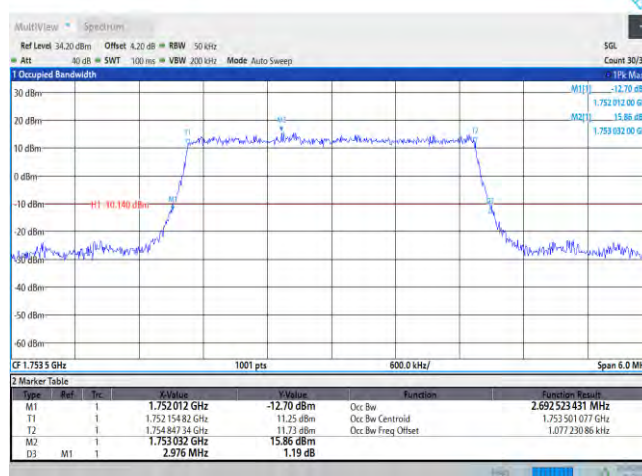
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Band4-3MHz-QPSK-20385-15RB#0



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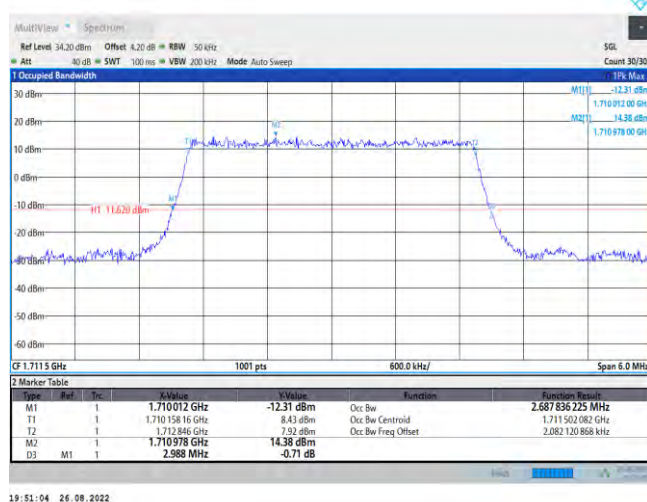
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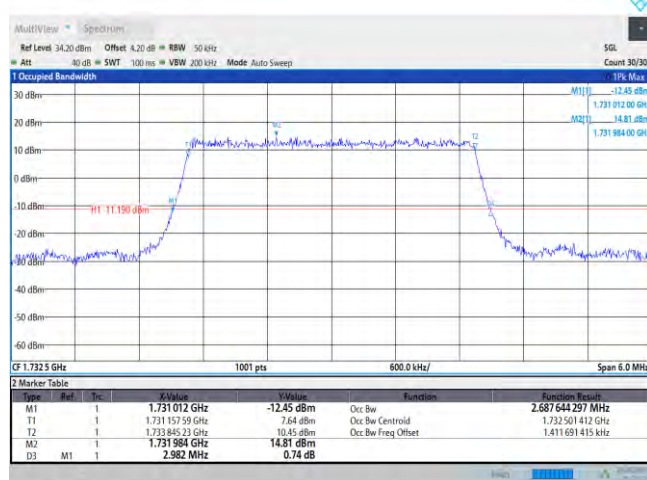
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Band4-3MHz-16QAM-20175-15RB#0



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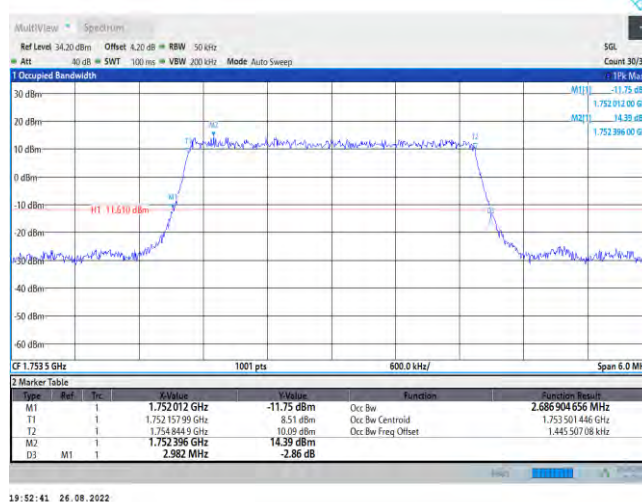
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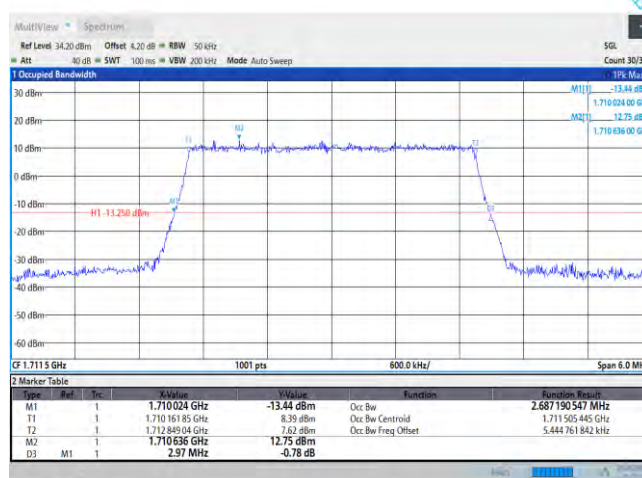
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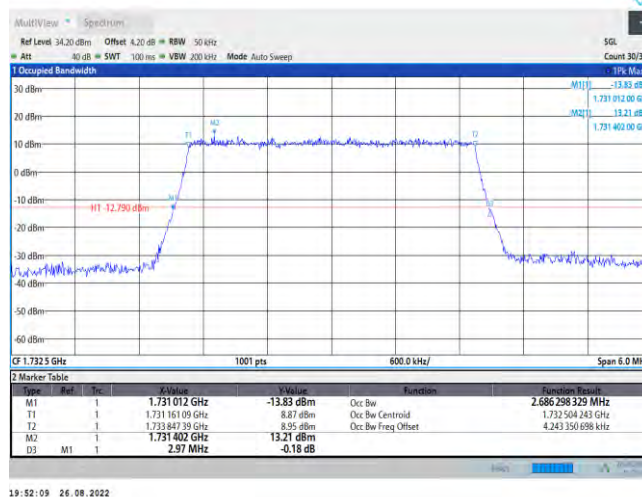
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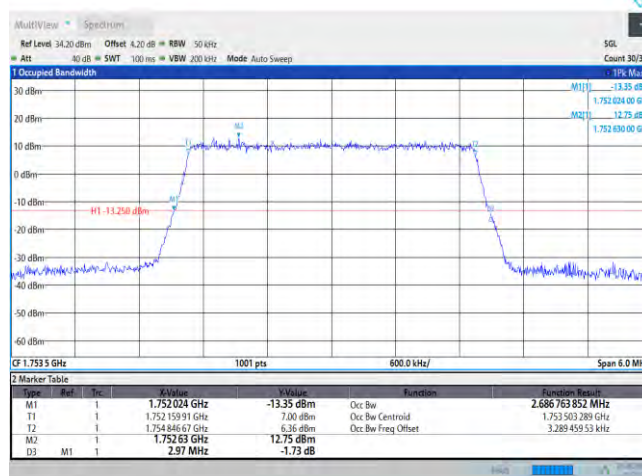
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Band4-3MHz-64QAM-20175-15RB#0



19:52:09 26.08.2022

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



19:52:58 26.08.2022



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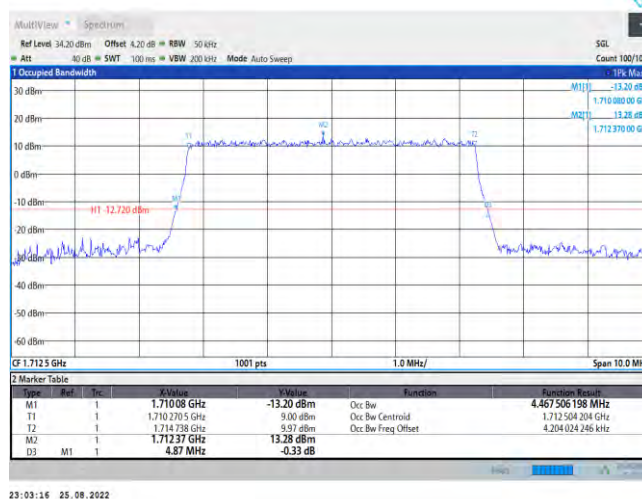
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23:03:16 25.08.2022

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



23:04:27 25.08.2022



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23:05:37 25.08.2022

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23:03:40 25.08.2022



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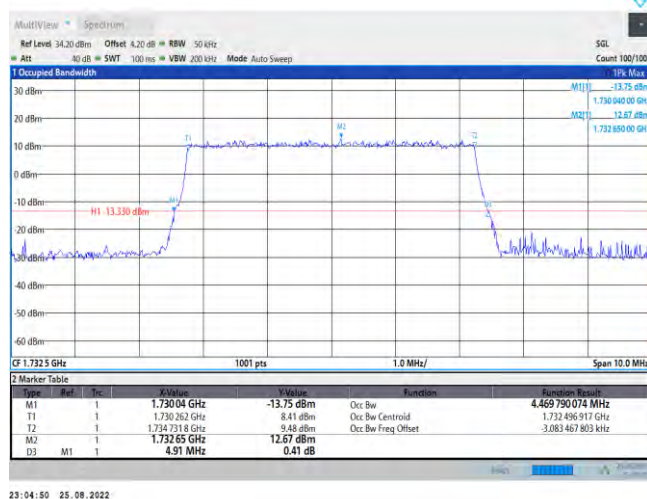
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23:04:50 25.08.2022

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



23:06:00 25.08.2022



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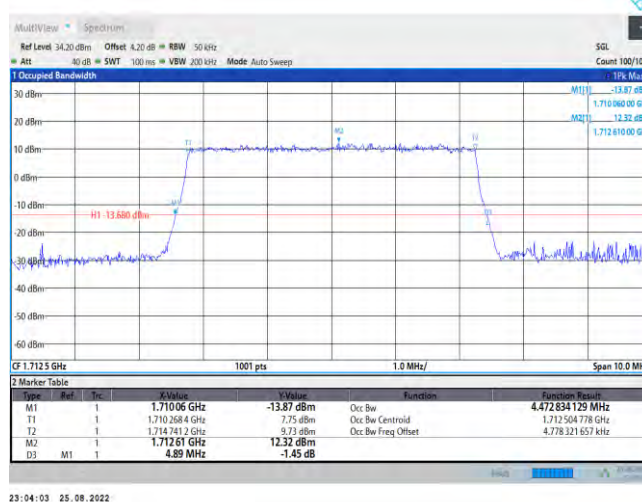
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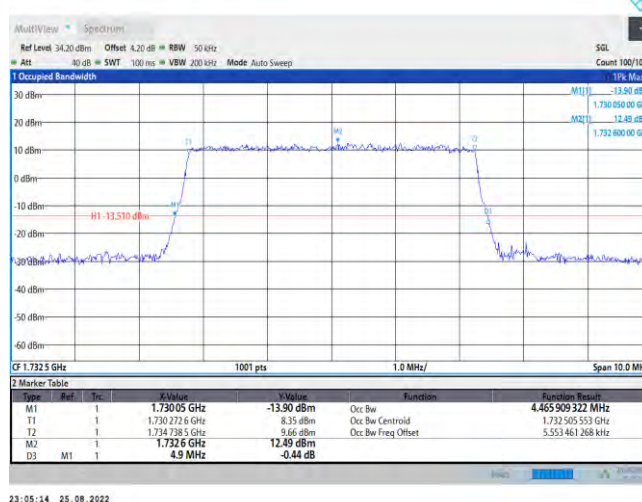
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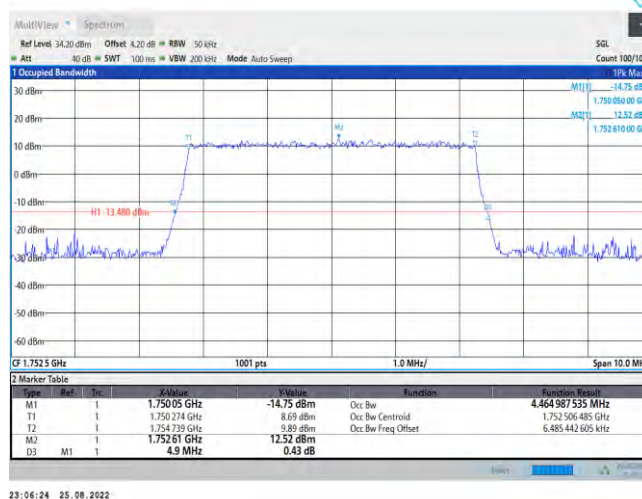
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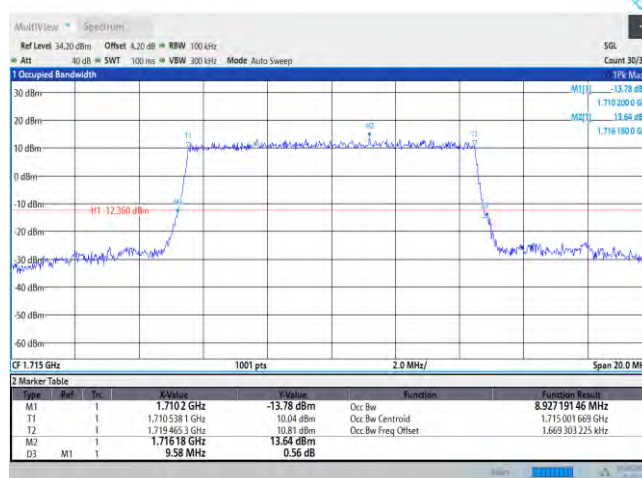
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Band4-10MHz-QPSK-20000-50RB#0



23:06:59 25.08.2022



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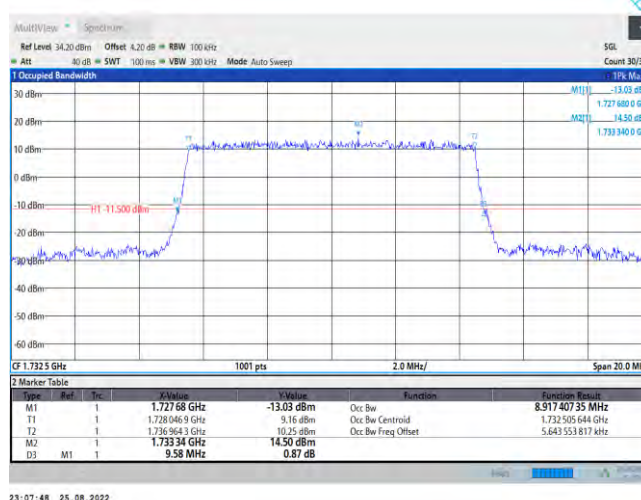
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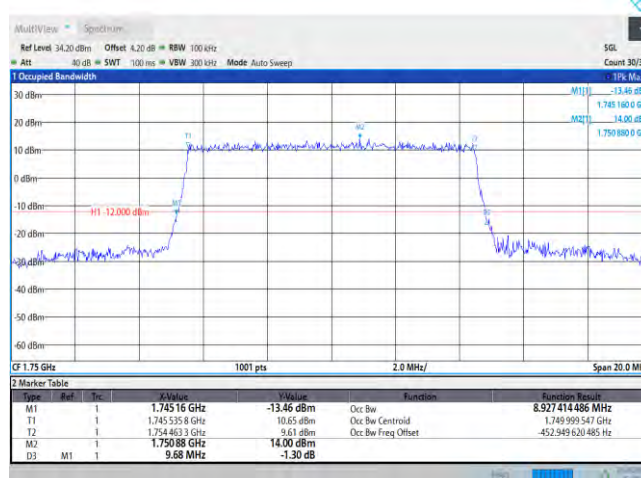
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23:07:48 25.08.2022

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



23:08:37 25.08.2022



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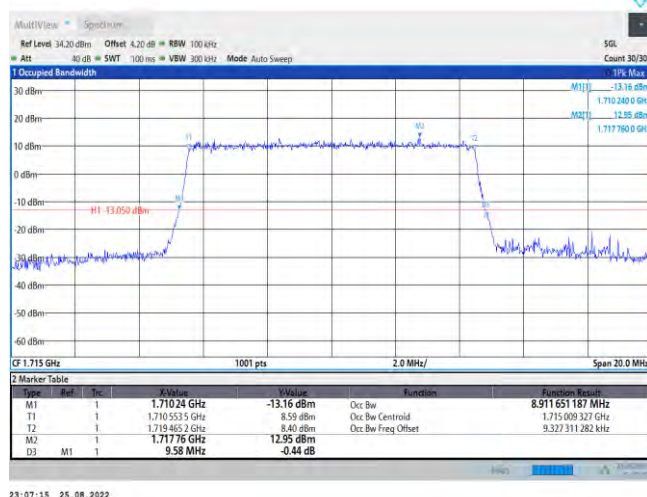
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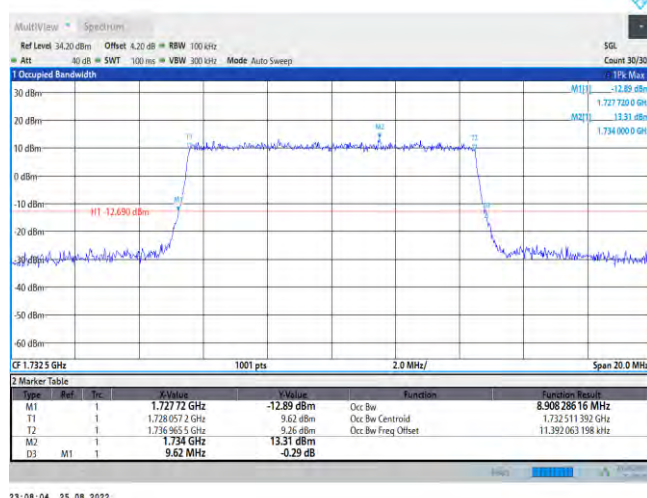
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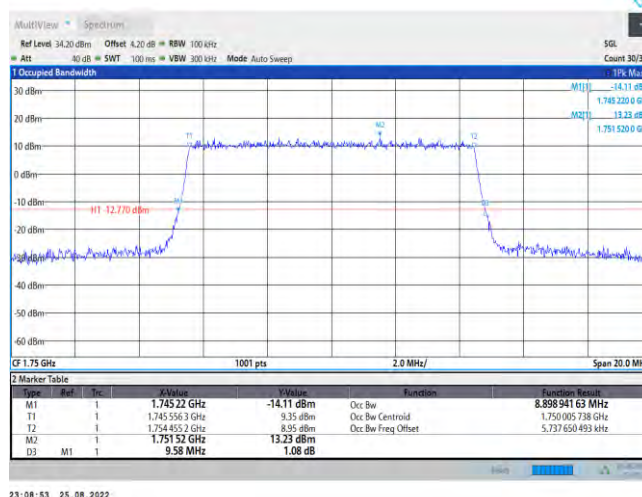
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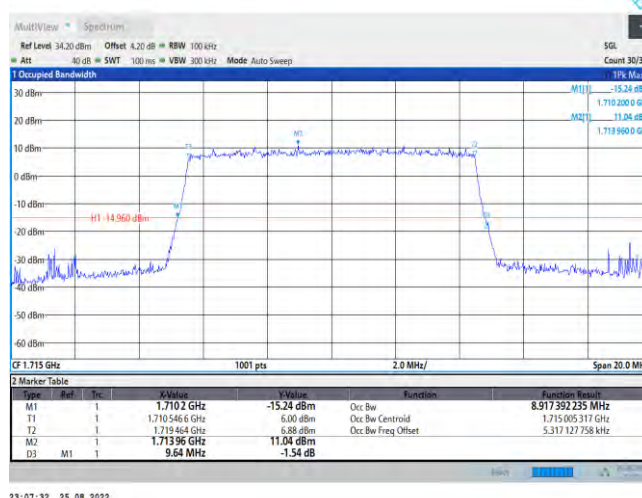
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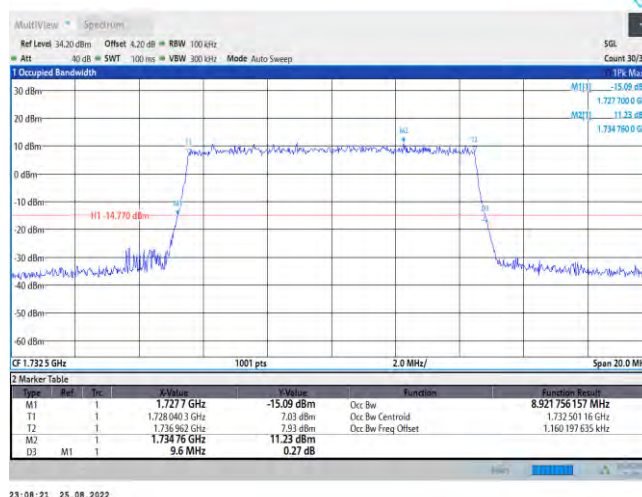
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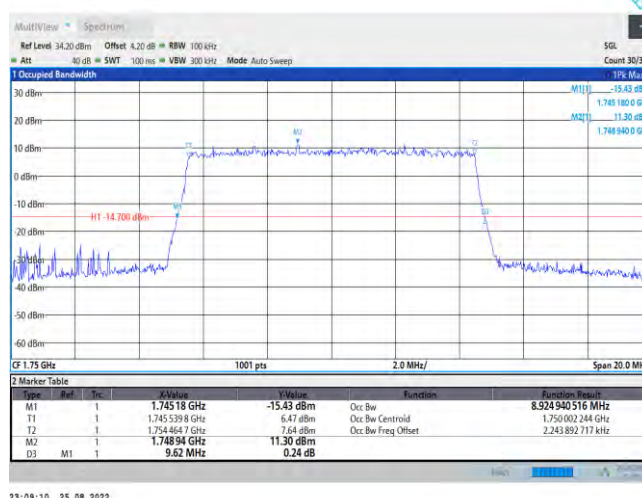
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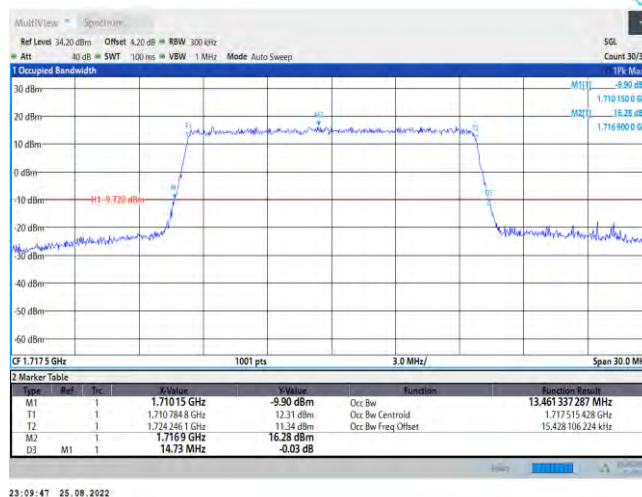
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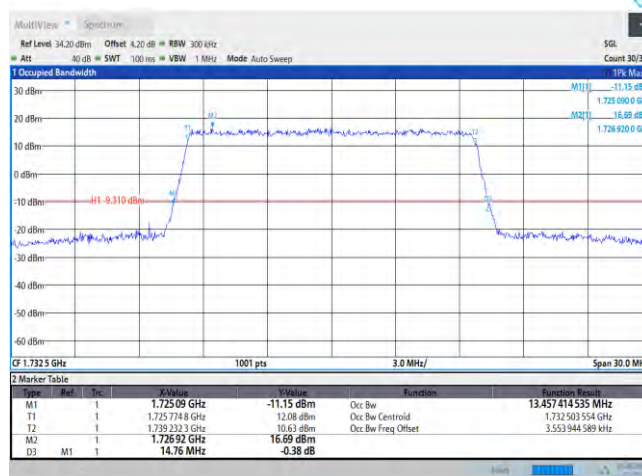
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23:09:47 25.08.2022

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



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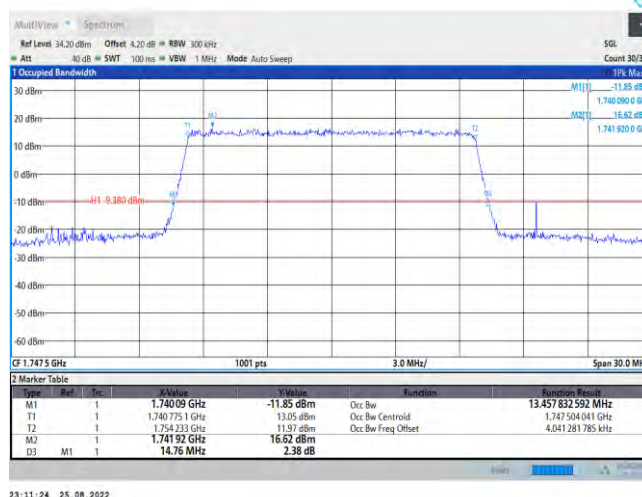
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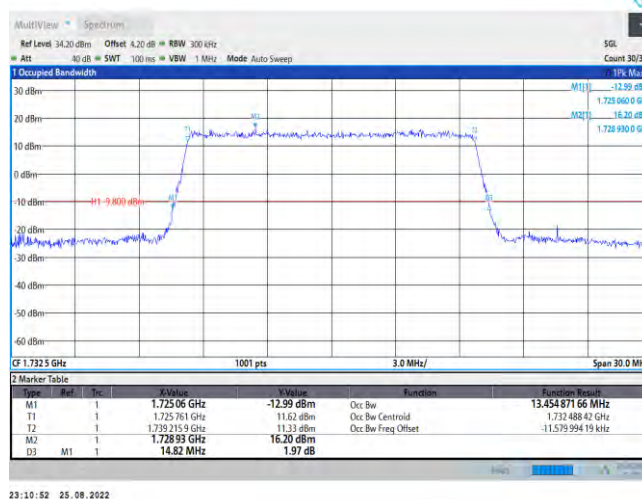
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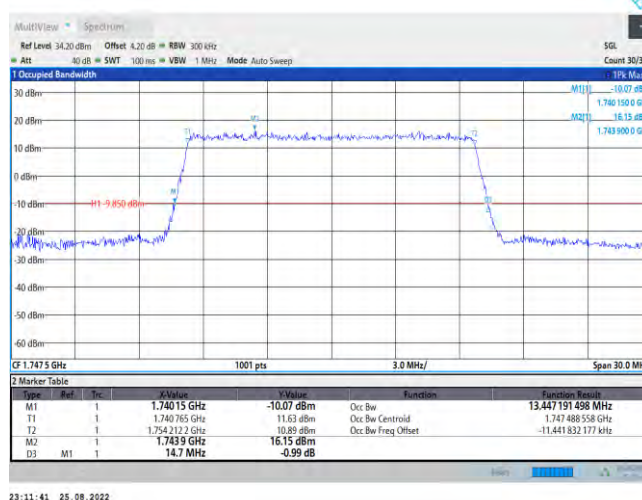
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Band4-15MHz-16QAM-20175-75RB#0



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



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23:10:19 25.08.2022

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23:11:08 25.08.2022



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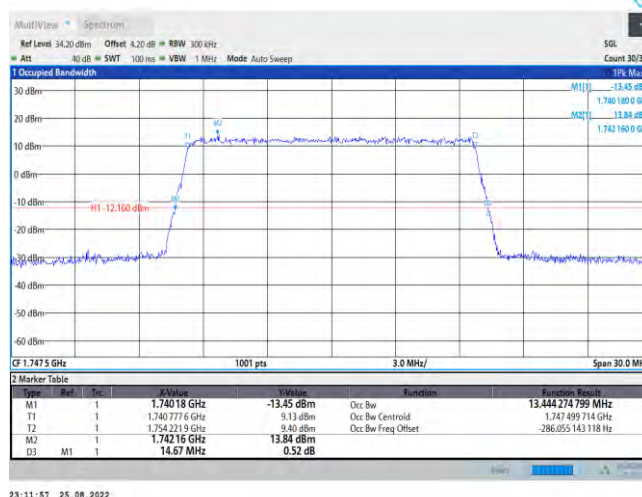
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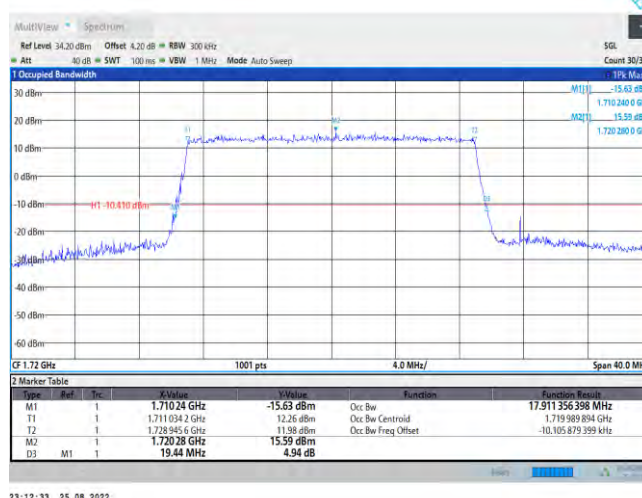
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Band4-20MHz-QPSK-20050-100RB#0



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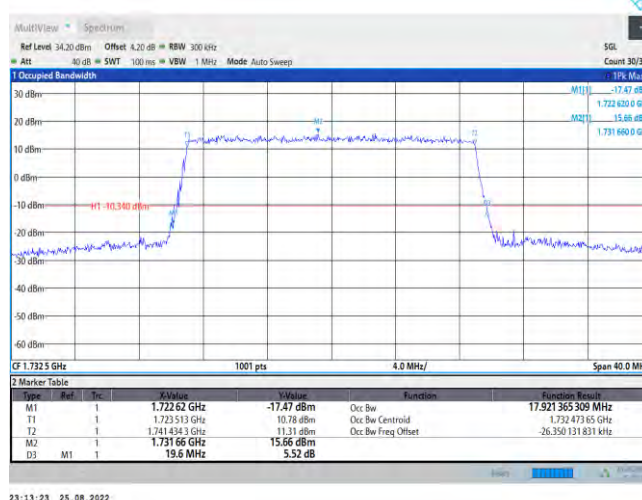
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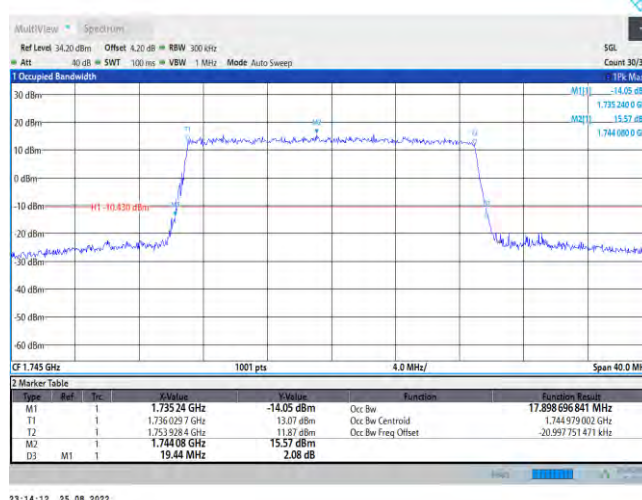
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Band4-20MHz-QPSK-20300-100RB#0



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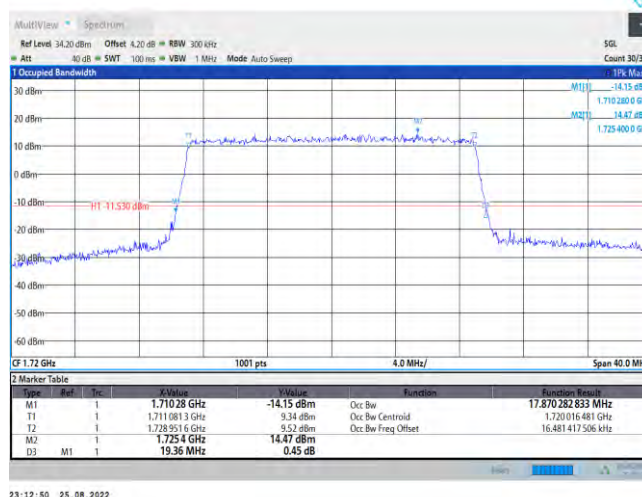
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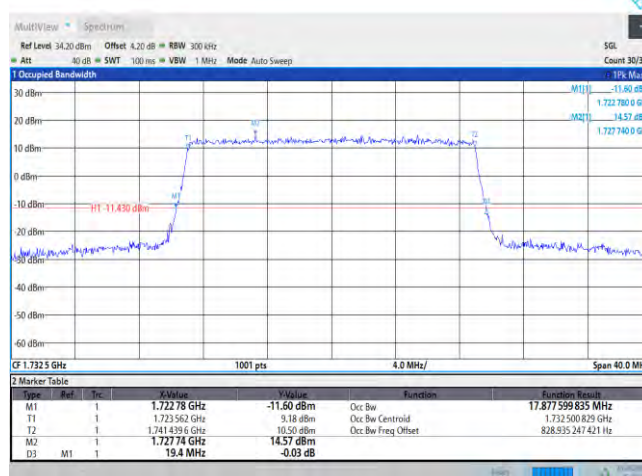
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23:12:50 25.08.2022

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



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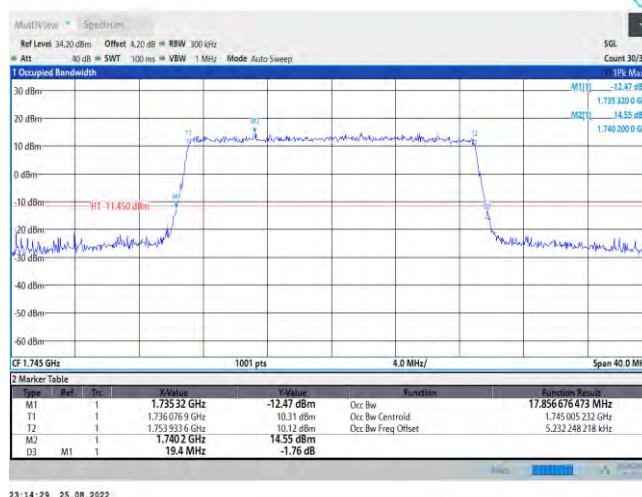
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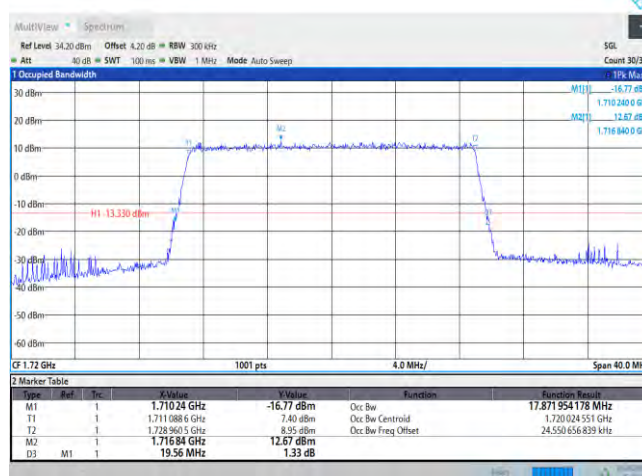
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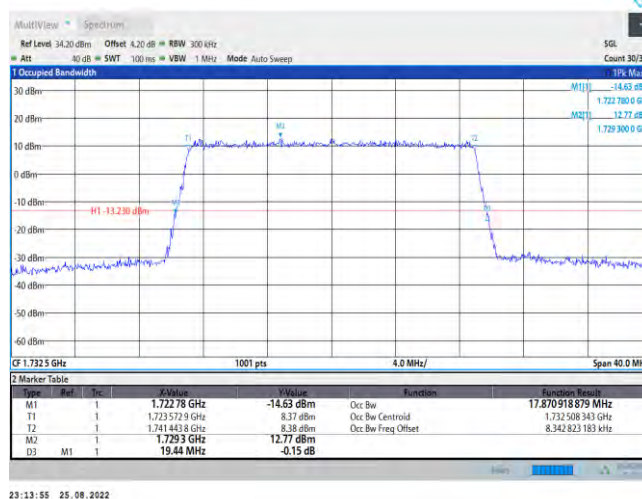
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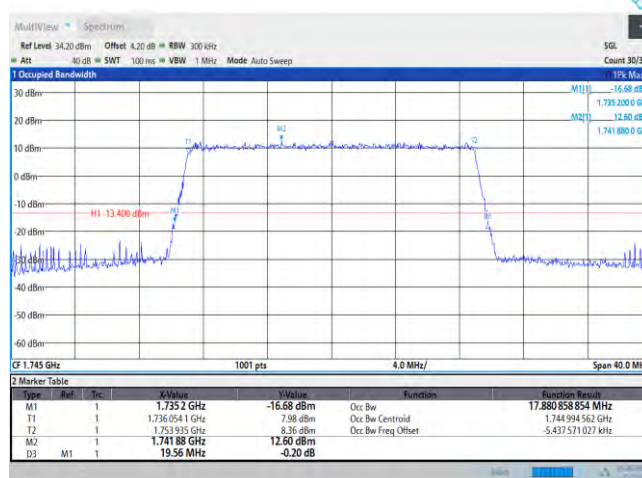
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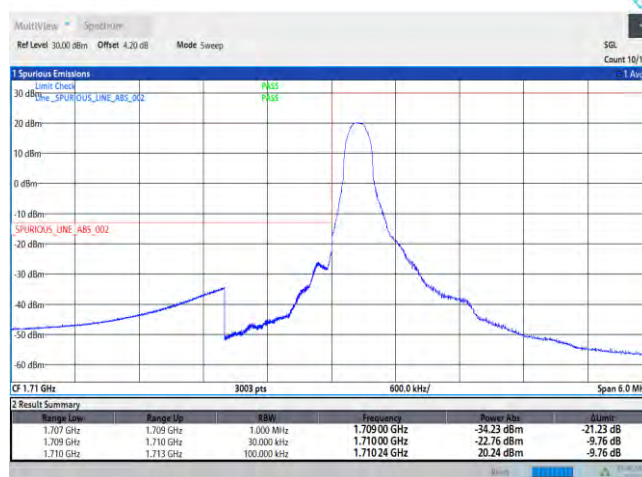
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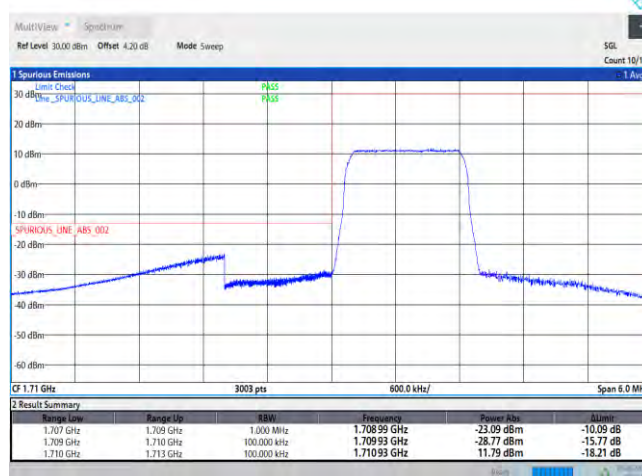
Test Graphs

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



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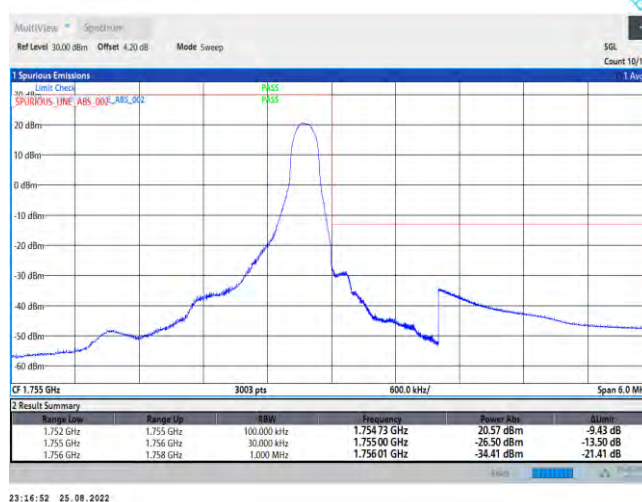
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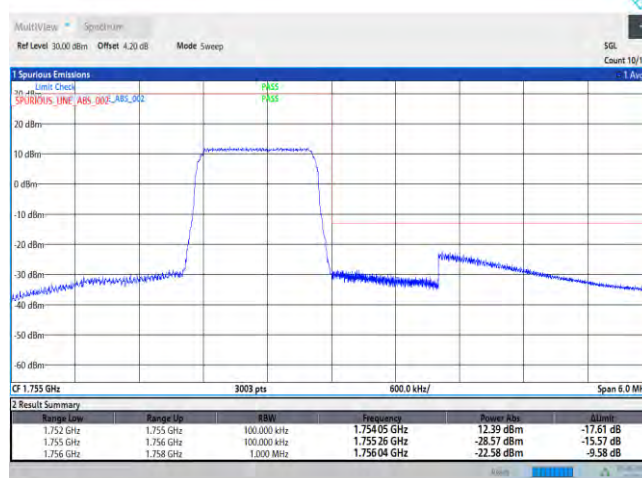
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Band4-1.4MHz-QPSK-20393-1RB#5



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



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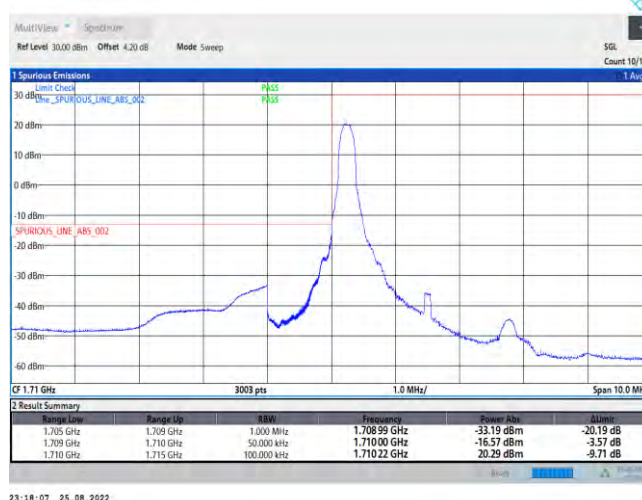
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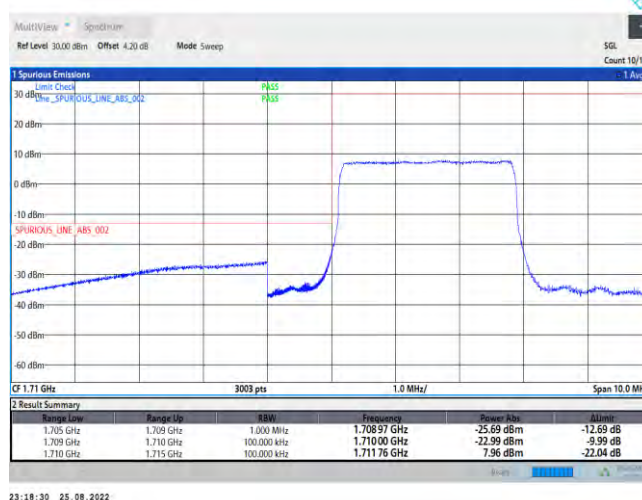
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Band4-3MHz-QPSK-19965-1RB#0



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



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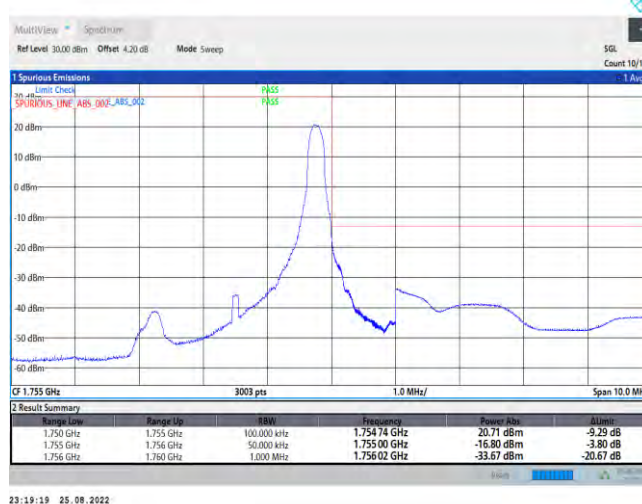
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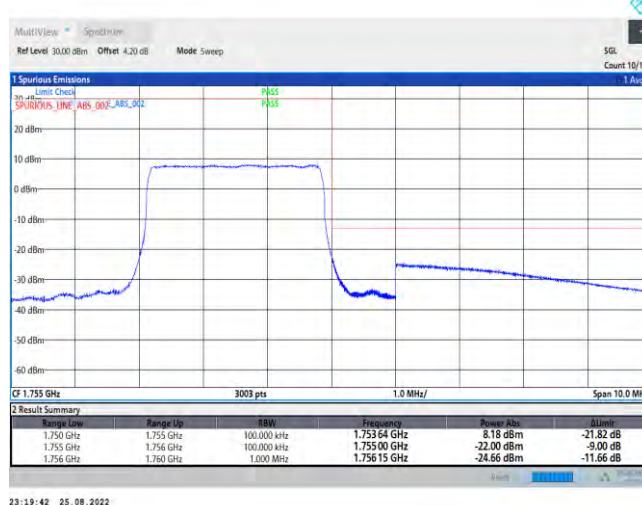
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Band4-5MHz-QPSK-19975-1RB#0



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



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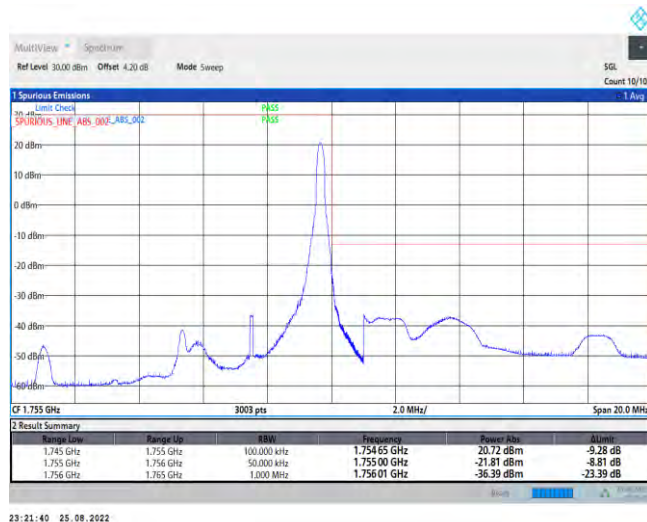
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Band4-5MHz-QPSK-20375-1RB#24



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



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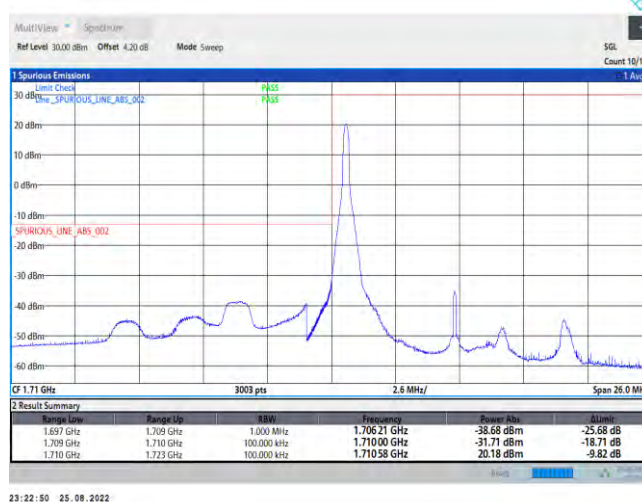
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Band4-10MHz-QPSK-20000-1RB#0



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



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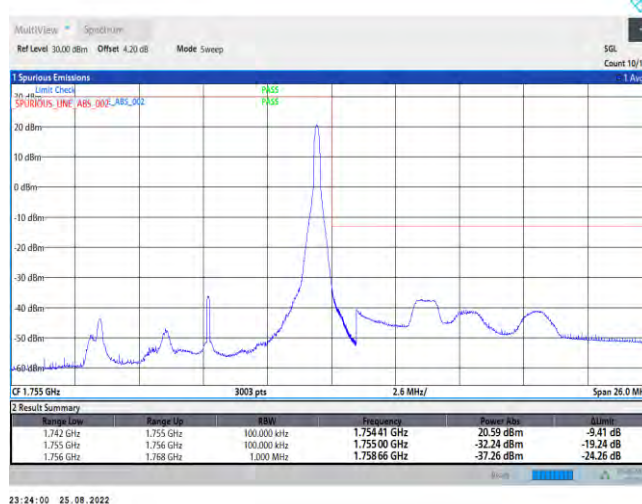
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Band4-10MHz-QPSK-20350-1RB#49



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



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



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



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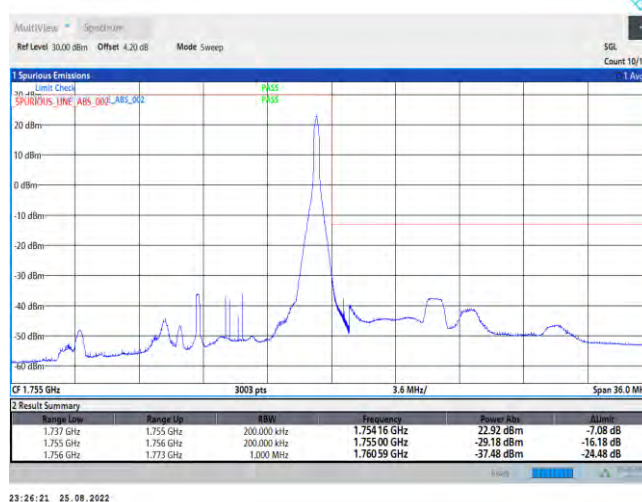
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Band4-15MHz-QPSK-20325-1RB#74



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



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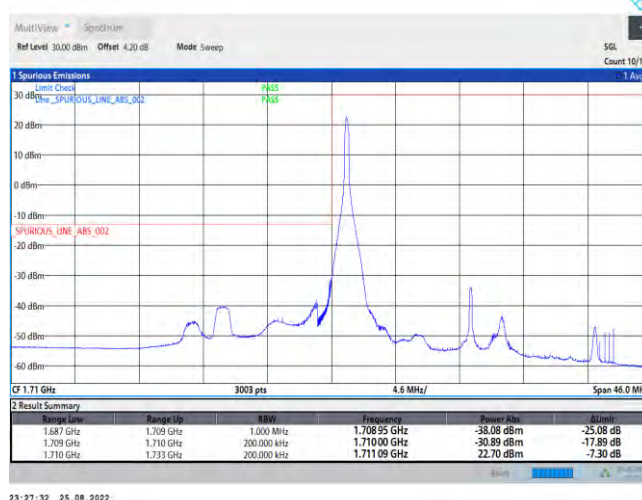
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Band4-20MHz-QPSK-20050-1RB#0



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



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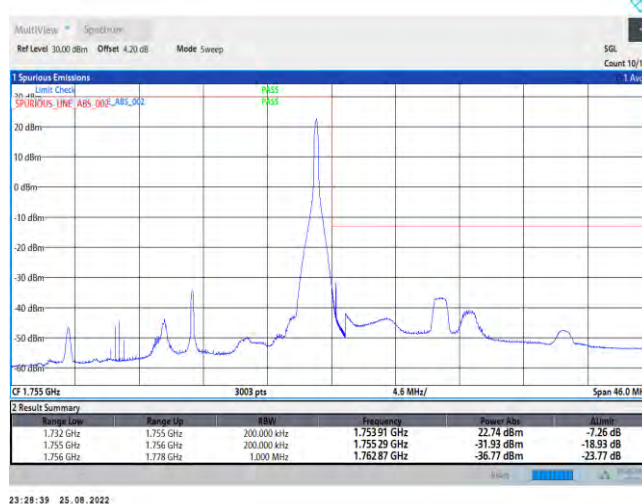
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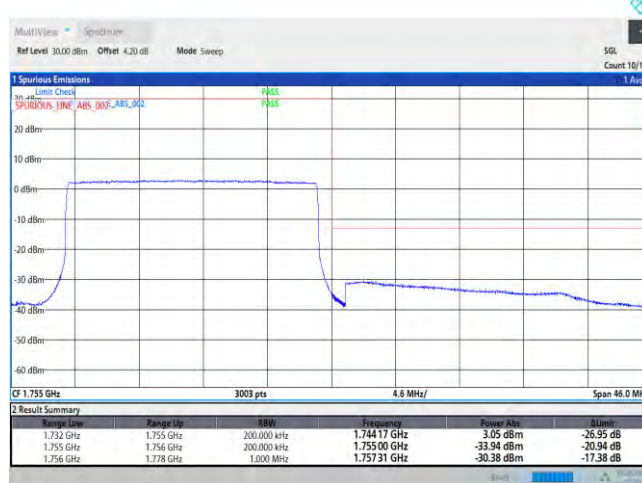
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Band4-20MHz-QPSK-20300-100RB#0



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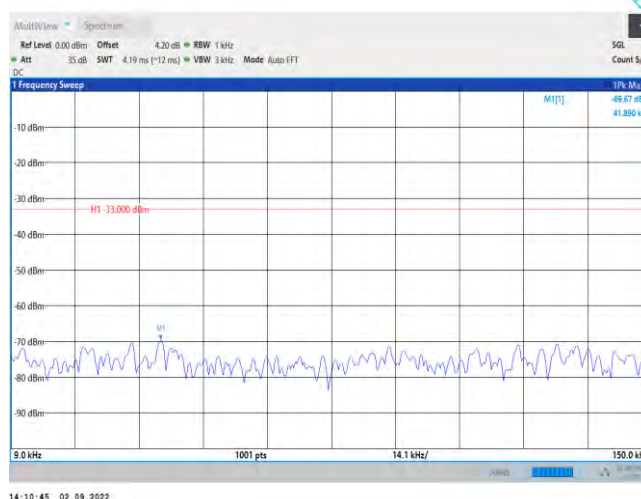
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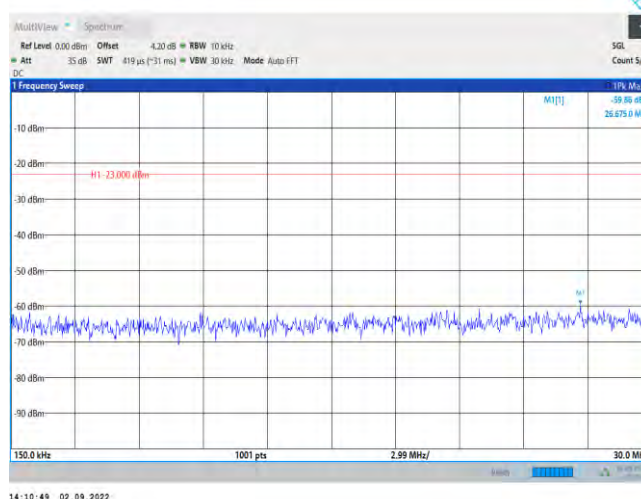
Conducted Spurious Emission

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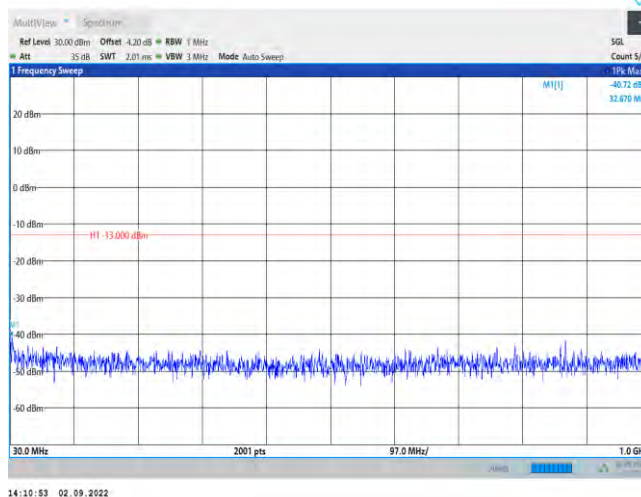
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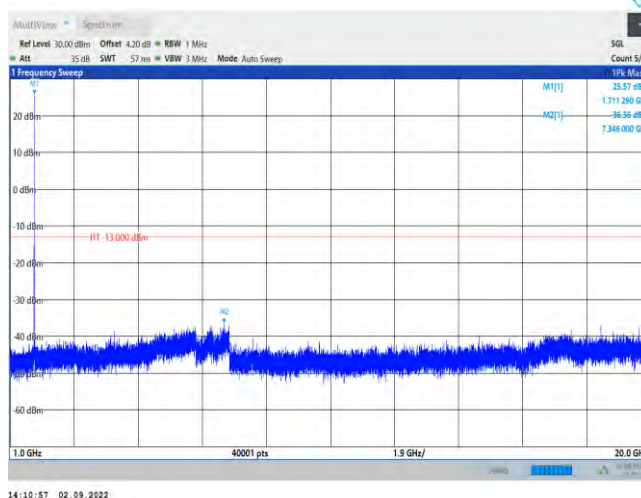
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Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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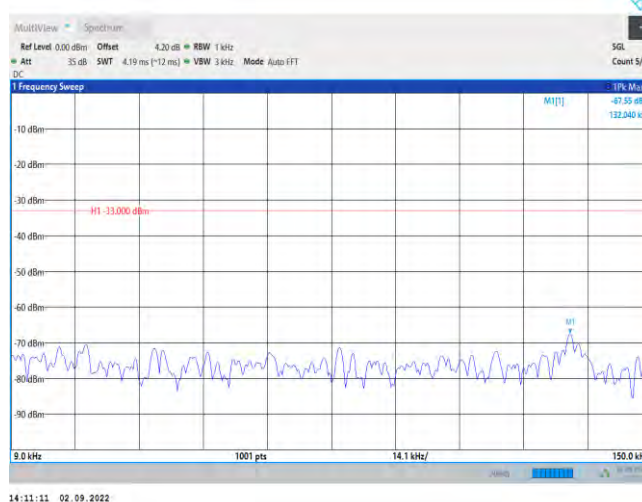
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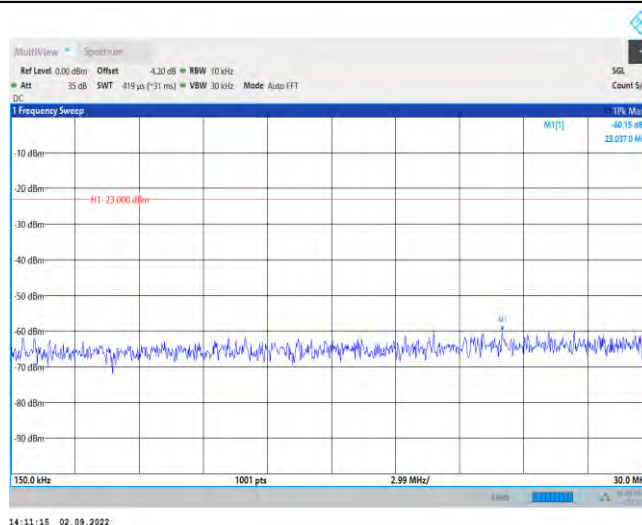
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Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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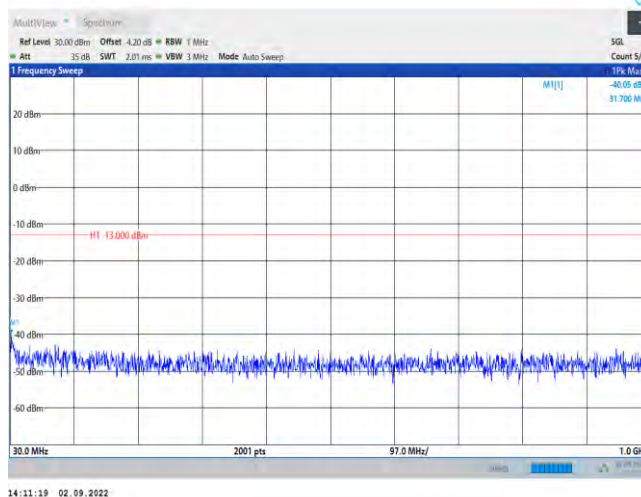
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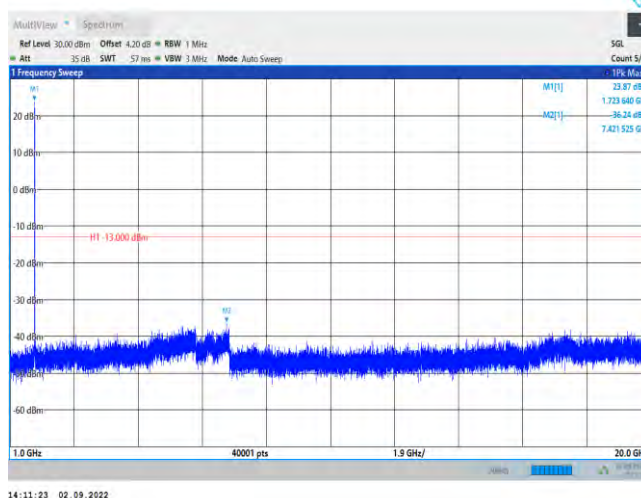
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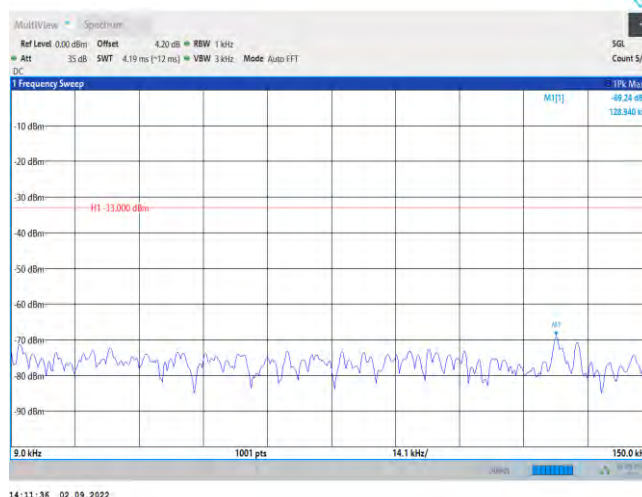
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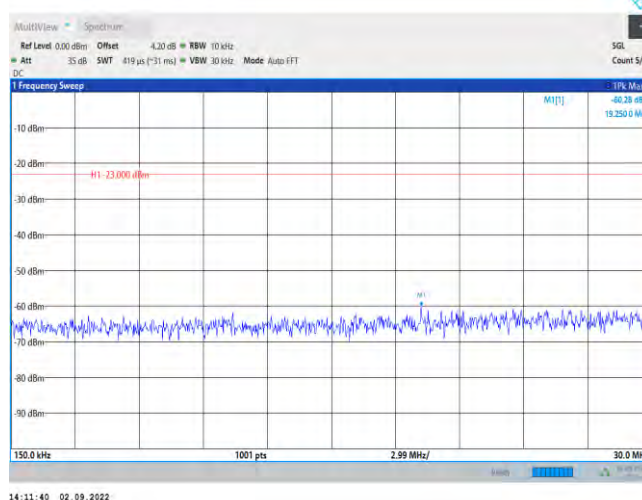
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



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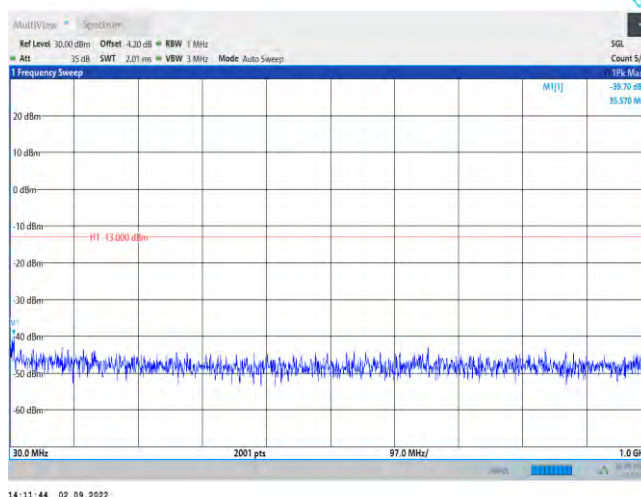
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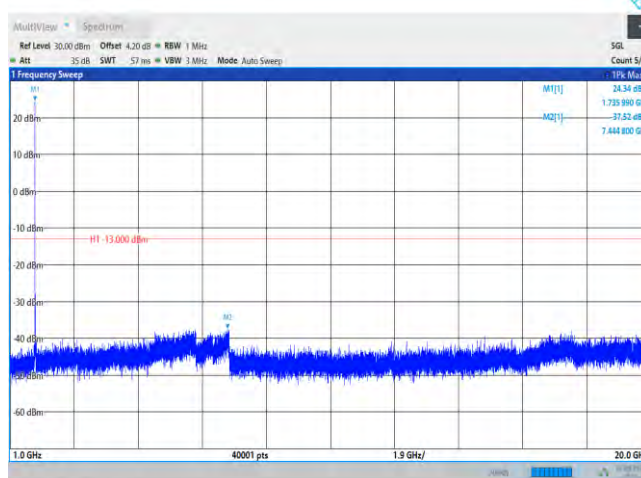
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



14:11:44 02.09.2022

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



14:11:49 02.09.2022



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Field Strength of Spurious Radiation

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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	49.97	-45.88	29.43	-61.74	-13.00	48.74	142	297	Horizontal
2	5133.27	48.69	-44.24	32.60	-58.21	-13.00	45.21	265	7	Horizontal
3	6844.36	47.58	-42.50	35.89	-54.29	-13.00	41.29	285	1	Horizontal
4	8555.45	45.44	-39.68	38.11	-51.39	-13.00	38.39	102	309	Horizontal
5	10266.54	42.80	-36.74	38.79	-50.40	-13.00	37.40	163	1	Horizontal
6	11977.63	42.56	-35.32	38.62	-49.39	-13.00	36.39	254	297	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	50.19	-45.88	29.43	-61.52	-13.00	48.52	163	271	Vertical
2	5133.27	50.34	-44.24	32.60	-56.56	-13.00	43.56	265	196	Vertical
3	6844.36	48.41	-42.50	35.89	-53.46	-13.00	40.46	241	283	Vertical
4	8555.45	45.95	-39.68	38.11	-50.88	-13.00	37.88	178	0	Vertical
5	10266.54	43.33	-36.74	38.79	-49.87	-13.00	36.87	203	160	Vertical
6	11977.63	41.76	-35.32	38.62	-50.19	-13.00	37.19	291	196	Vertical



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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	49.75	-45.82	29.42	-61.90	-13.00	48.90	142	334	Horizontal
2	5170.77	49.77	-44.19	32.60	-57.08	-13.00	44.08	265	357	Horizontal
3	6894.36	48.16	-42.44	35.99	-53.55	-13.00	40.55	284	124	Horizontal
4	8617.95	46.37	-39.74	38.18	-50.45	-13.00	37.45	175	35	Horizontal
5	10341.54	42.44	-36.68	38.88	-50.62	-13.00	37.62	263	222	Horizontal
6	12065.13	41.20	-35.25	38.67	-50.65	-13.00	37.65	201	24	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	49.79	-45.82	29.42	-61.86	-13.00	48.86	263	161	Vertical
2	5170.77	50.94	-44.19	32.60	-55.91	-13.00	42.91	241	111	Vertical
3	6894.36	47.91	-42.44	35.99	-53.80	-13.00	40.80	152	15	Vertical
4	8617.95	45.36	-39.74	38.18	-51.46	-13.00	38.46	266	357	Vertical
5	10341.54	42.14	-36.68	38.88	-50.92	-13.00	37.92	201	2	Vertical
6	12065.13	42.15	-35.25	38.67	-49.70	-13.00	36.70	196	261	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	51.52	-45.76	29.41	-60.09	-13.00	47.09	142	285	Horizontal
2	5208.27	49.32	-44.14	32.60	-57.48	-13.00	44.48	268	199	Horizontal
3	6944.36	47.89	-42.50	36.09	-53.78	-13.00	40.78	241	357	Horizontal
4	8680.45	47.90	-39.46	38.25	-48.57	-13.00	35.57	175	64	Horizontal
5	10416.54	42.29	-36.46	38.96	-50.47	-13.00	37.47	203	298	Horizontal
6	12152.63	43.16	-35.22	38.75	-48.57	-13.00	35.57	206	347	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	50.95	-45.76	29.41	-60.66	-13.00	47.66	142	134	Vertical
2	5208.27	50.92	-44.14	32.60	-55.88	-13.00	42.88	285	295	Vertical
3	6944.36	48.10	-42.50	36.09	-53.57	-13.00	40.57	201	0	Vertical
4	8680.45	46.34	-39.46	38.25	-50.13	-13.00	37.13	152	184	Vertical
5	10416.54	41.76	-36.46	38.96	-51.00	-13.00	38.00	362	0	Vertical
6	12152.63	41.04	-35.22	38.75	-50.69	-13.00	37.69	241	184	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	-6.00	-0.003463	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	3.20	0.001847	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-7.90	-0.004560	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-5.80	-0.003348	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	0.60	0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	6.30	0.003636	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.80	-0.001616	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-8.70	-0.005022	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	5.90	0.003405	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	3.30	0.001905	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	4.00	0.002309	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	6.00	0.003463	PASS

 $|\text{MAX}(\Delta f)| = 8.7\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL - $ \text{MAX}(\Delta f) $	1710.562354	$\geq 1710\text{ MHz}$	PASS
fH + $ \text{MAX}(\Delta f) $	1754.456982	$\leq 1755\text{ MHz}$	

---End of Attachment---



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