

# Appendix B.3

## LTE Band 2



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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
Band2	1.4MHz	QPSK	18607	1RB#0	22.39	24.32	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.4	24.33	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.38	24.31	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.44	23.37	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.27	24.2	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.37	24.3	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.28	24.21	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.37	23.3	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.22	24.15	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.4	24.33	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.15	24.08	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.31	23.24	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.76	23.69	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.65	23.58	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.75	23.68	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.46	22.39	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.69	23.62	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.66	23.59	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.64	23.57	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.48	22.41	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.54	23.47	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.53	23.46	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.47	23.4	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.32	22.25	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	20.77	22.7	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#2	20.62	22.55	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#5	20.68	22.61	33	PASS



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Band2	1.4MHz	64QAM	18607	6RB#0	19.47	21.4	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#0	20.52	22.45	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	20.61	22.54	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#5	20.57	22.5	33	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	19.45	21.38	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	20.51	22.44	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#2	20.48	22.41	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	20.52	22.45	33	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	19.32	21.25	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.45	24.38	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.47	24.4	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.34	24.27	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.53	23.46	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.34	24.27	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.46	24.39	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.32	24.25	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.36	23.29	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.32	24.25	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.37	24.3	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.22	24.15	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.35	23.28	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.85	23.78	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.9	23.83	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.61	23.54	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.52	22.45	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.69	23.62	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.73	23.66	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.73	23.66	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.44	22.37	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.63	23.56	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.75	23.68	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.45	23.38	33	PASS



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Band2	3MHz	16QAM	19185	15RB#0	20.4	22.33	33	PASS
Band2	3MHz	64QAM	18615	1RB#0	20.68	22.61	33	PASS
Band2	3MHz	64QAM	18615	1RB#8	20.86	22.79	33	PASS
Band2	3MHz	64QAM	18615	1RB#14	20.66	22.59	33	PASS
Band2	3MHz	64QAM	18615	15RB#0	19.46	21.39	33	PASS
Band2	3MHz	64QAM	18900	1RB#0	20.57	22.5	33	PASS
Band2	3MHz	64QAM	18900	1RB#8	20.76	22.69	33	PASS
Band2	3MHz	64QAM	18900	1RB#14	20.55	22.48	33	PASS
Band2	3MHz	64QAM	18900	15RB#0	19.4	21.33	33	PASS
Band2	3MHz	64QAM	19185	1RB#0	20.61	22.54	33	PASS
Band2	3MHz	64QAM	19185	1RB#8	20.64	22.57	33	PASS
Band2	3MHz	64QAM	19185	1RB#14	20.54	22.47	33	PASS
Band2	3MHz	64QAM	19185	15RB#0	19.43	21.36	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.38	24.31	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.41	24.34	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.3	24.23	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.45	23.38	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.26	24.19	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.39	24.32	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.25	24.18	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.39	23.32	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.22	24.15	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.2	24.13	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.17	24.1	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.27	23.2	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.59	23.52	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.67	23.6	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.68	23.61	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.49	22.42	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.57	23.5	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.66	23.59	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.59	23.52	33	PASS



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Band2	5MHz	16QAM	18900	25RB#0	20.41	22.34	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.49	23.42	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.51	23.44	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.56	23.49	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.3	22.23	33	PASS
Band2	5MHz	64QAM	18625	1RB#0	20.79	22.72	33	PASS
Band2	5MHz	64QAM	18625	1RB#12	20.68	22.61	33	PASS
Band2	5MHz	64QAM	18625	1RB#24	20.58	22.51	33	PASS
Band2	5MHz	64QAM	18625	25RB#0	19.53	21.46	33	PASS
Band2	5MHz	64QAM	18900	1RB#0	20.57	22.5	33	PASS
Band2	5MHz	64QAM	18900	1RB#12	20.59	22.52	33	PASS
Band2	5MHz	64QAM	18900	1RB#24	20.54	22.47	33	PASS
Band2	5MHz	64QAM	18900	25RB#0	19.36	21.29	33	PASS
Band2	5MHz	64QAM	19175	1RB#0	20.48	22.41	33	PASS
Band2	5MHz	64QAM	19175	1RB#12	20.46	22.39	33	PASS
Band2	5MHz	64QAM	19175	1RB#24	20.38	22.31	33	PASS
Band2	5MHz	64QAM	19175	25RB#0	19.31	21.24	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.03	23.96	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.33	24.26	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.2	24.13	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.39	23.32	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.09	24.02	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.34	24.27	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.01	23.94	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.24	23.17	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.37	24.3	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.3	24.23	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.33	24.26	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.22	23.15	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.33	23.26	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.76	23.69	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.4	23.33	33	PASS



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Band2	10MHz	16QAM	18650	50RB#0	20.36	22.29	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.32	23.25	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.7	23.63	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.46	23.39	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.3	22.23	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.62	23.55	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.62	23.55	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.63	23.56	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.19	22.12	33	PASS
Band2	10MHz	64QAM	18650	1RB#0	20.47	22.4	33	PASS
Band2	10MHz	64QAM	18650	1RB#24	20.49	22.42	33	PASS
Band2	10MHz	64QAM	18650	1RB#49	20.37	22.3	33	PASS
Band2	10MHz	64QAM	18650	50RB#0	19.39	21.32	33	PASS
Band2	10MHz	64QAM	18900	1RB#0	20.09	22.02	33	PASS
Band2	10MHz	64QAM	18900	1RB#24	20.59	22.52	33	PASS
Band2	10MHz	64QAM	18900	1RB#49	20.34	22.27	33	PASS
Band2	10MHz	64QAM	18900	50RB#0	19.33	21.26	33	PASS
Band2	10MHz	64QAM	19150	1RB#0	20.46	22.39	33	PASS
Band2	10MHz	64QAM	19150	1RB#24	20.55	22.48	33	PASS
Band2	10MHz	64QAM	19150	1RB#49	20.47	22.4	33	PASS
Band2	10MHz	64QAM	19150	50RB#0	19.25	21.18	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.05	23.98	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.31	24.24	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.25	24.18	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.38	23.31	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.17	24.1	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.21	24.14	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.3	24.23	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.28	23.21	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.11	24.04	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.16	24.09	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.13	24.06	33	PASS



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Band2	15MHz	QPSK	19125	75RB#0	21.11	23.04	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.31	23.24	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.67	23.6	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.51	23.44	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.32	22.25	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.57	23.5	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.53	23.46	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.61	23.54	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.25	22.18	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.4	23.33	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.5	23.43	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.58	23.51	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.22	22.15	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	20.54	22.47	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	20.46	22.39	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	20.39	22.32	33	PASS
Band2	15MHz	64QAM	18675	75RB#0	19.34	21.27	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	20.45	22.38	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	20.45	22.38	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	20.48	22.41	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	19.26	21.19	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	20.34	22.27	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	20.51	22.44	33	PASS
Band2	15MHz	64QAM	19125	1RB#74	20.37	22.3	33	PASS
Band2	15MHz	64QAM	19125	75RB#0	19.2	21.13	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.16	24.09	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.18	24.11	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.22	24.15	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.31	23.24	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.17	24.1	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.26	24.19	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.28	24.21	33	PASS



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Band2	20MHz	QPSK	18900	100RB#0	21.18	23.11	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.18	24.11	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.19	24.12	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.18	24.11	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.21	23.14	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.52	23.45	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.6	23.53	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.52	23.45	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.28	22.21	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.48	23.41	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.54	23.47	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.52	23.45	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.18	22.11	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.49	23.42	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.57	23.5	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.54	23.47	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.16	22.09	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	20.44	22.37	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	20.38	22.31	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	20.6	22.53	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	19.34	21.27	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	20.27	22.2	33	PASS
Band2	20MHz	64QAM	18900	1RB#49	20.53	22.46	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	20.39	22.32	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	19.25	21.18	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	20.31	22.24	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	20.4	22.33	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	20.45	22.38	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	19.2	21.13	33	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

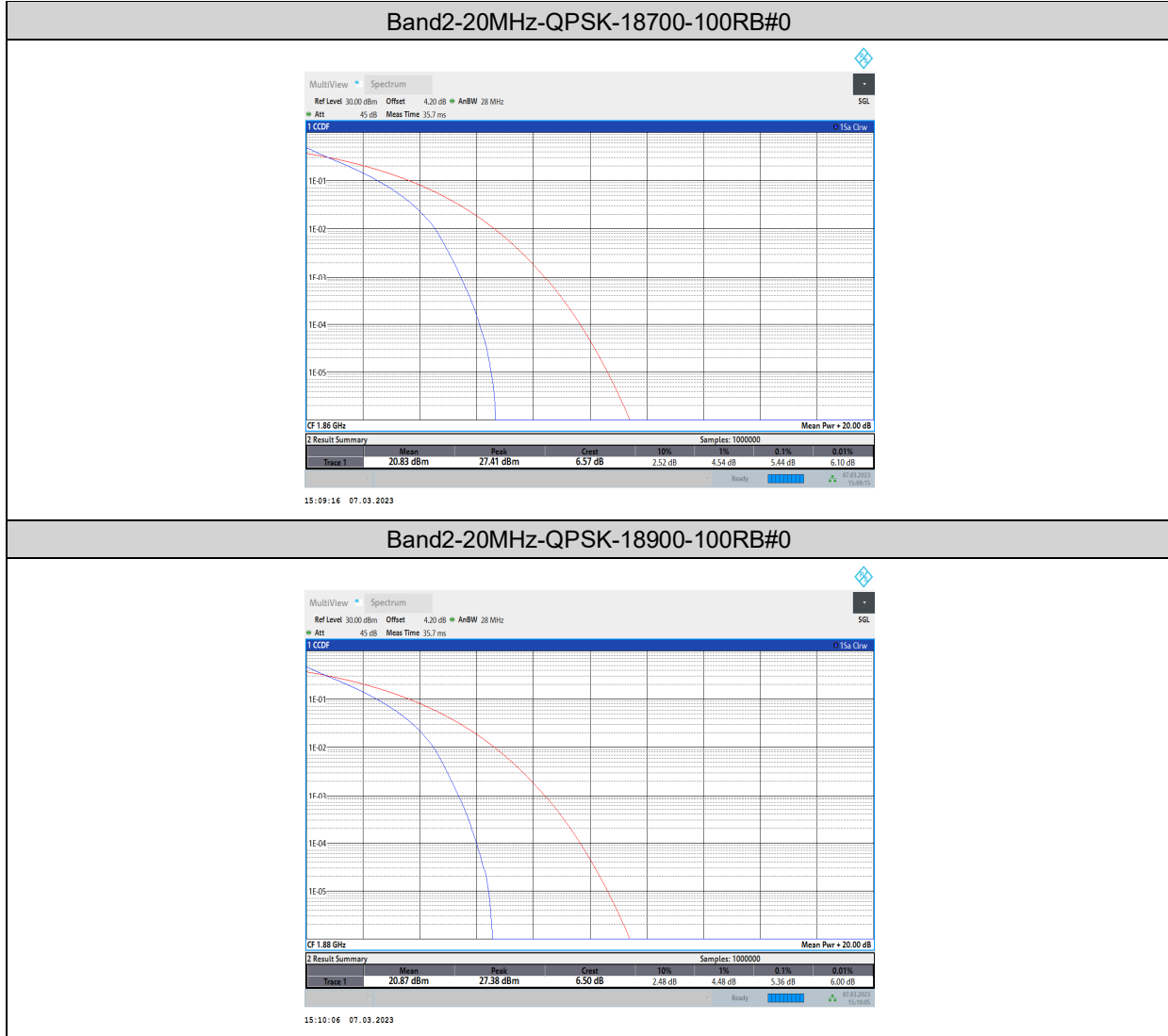
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.44	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.36	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.48	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.10	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.12	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.18	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.64	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.68	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.68	13	PASS



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Test Graphs

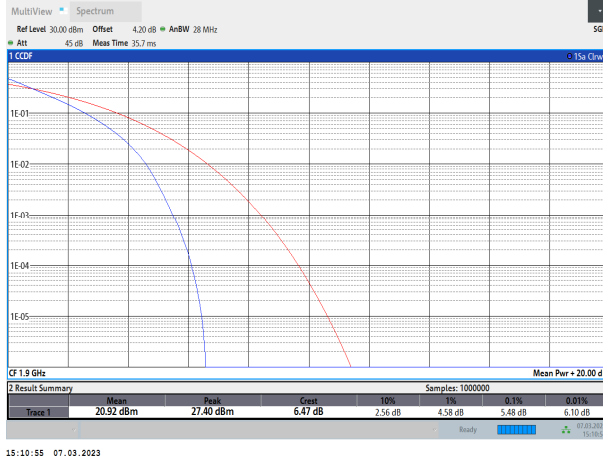


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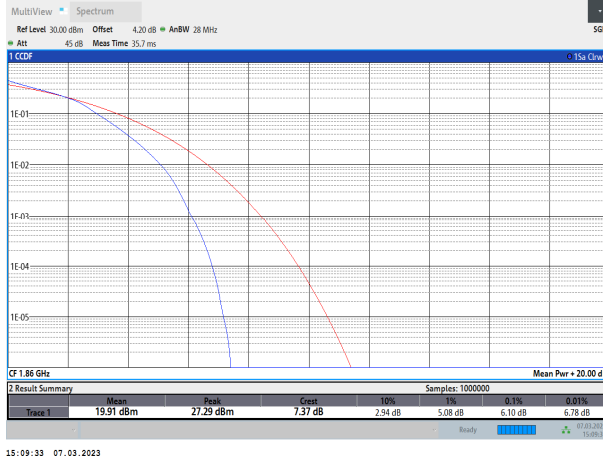
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Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-100RB#0

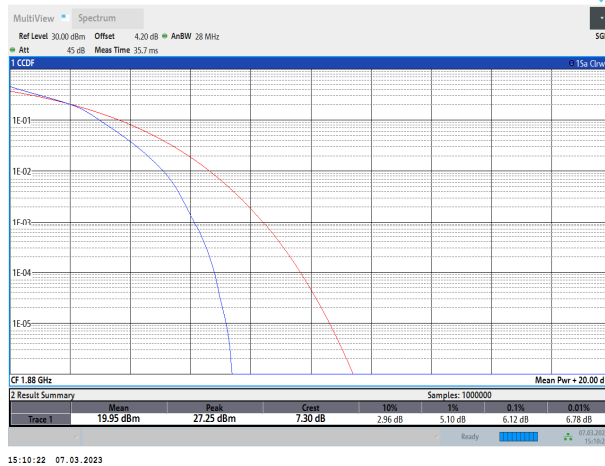


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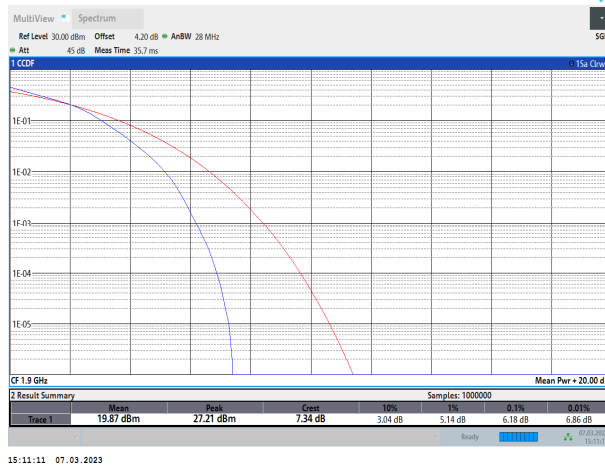
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Band2-20MHz-16QAM-18900-100RB#0



Band2-20MHz-16QAM-19100-100RB#0

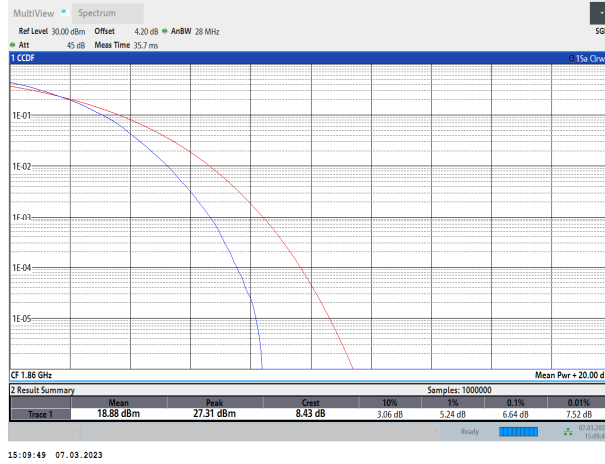


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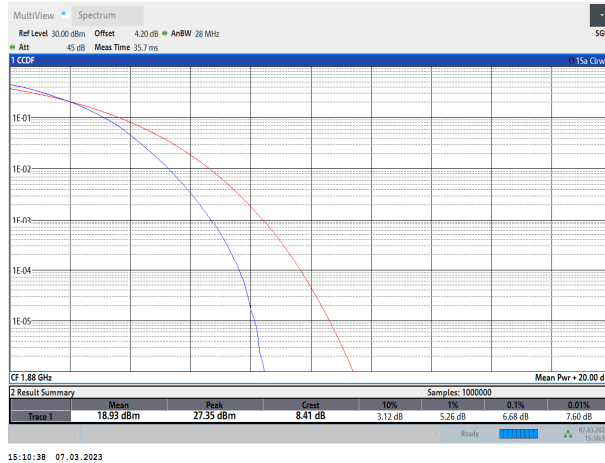
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Band2-20MHz-64QAM-18700-100RB#0



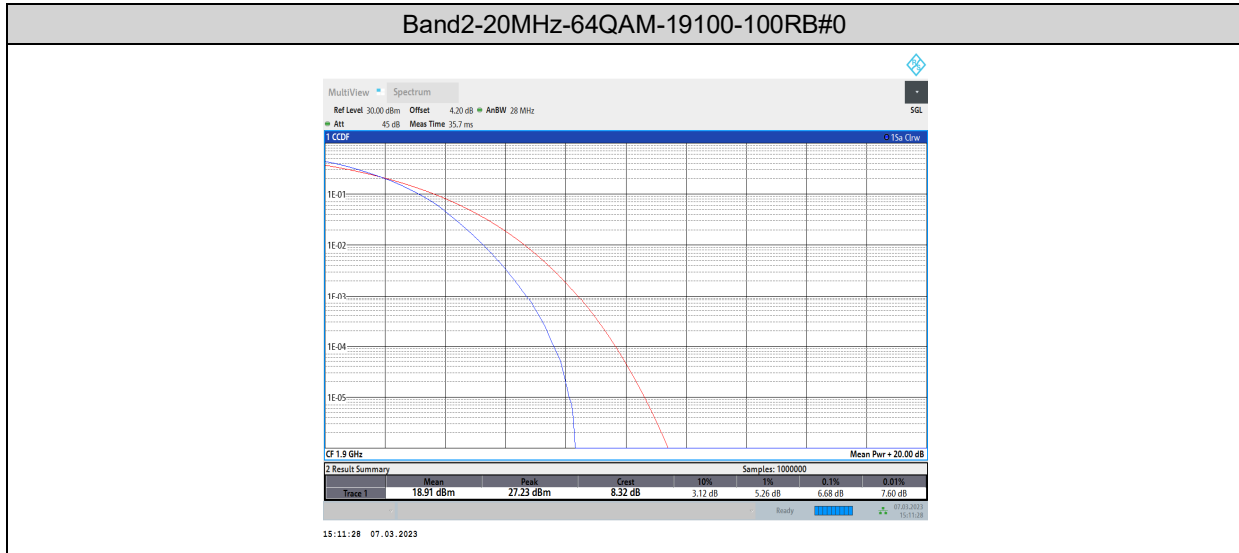
Band2-20MHz-64QAM-18900-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.085	1.23	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.084	1.23	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.084	1.23	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.092	1.24	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.092	1.24	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.091	1.24	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	1.091	1.24	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.09	1.24	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.09	1.24	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.694	2.97	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.691	2.97	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.693	2.96	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.686	2.99	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.685	2.98	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.686	2.98	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.69	2.95	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.686	2.99	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.685	2.96	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.47	4.90	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.465	4.88	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.467	4.90	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.469	4.89	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.462	4.90	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.466	4.89	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.473	4.90	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.477	4.92	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.472	4.90	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.927	9.64	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.926	9.68	PASS



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Band2	10MHz	QPSK	19150	50RB#0	8.924	9.64	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.901	9.64	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.909	9.60	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.907	9.60	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.929	9.62	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.924	9.64	PASS
Band2	10MHz	64QAM	19150	50RB#0	8.92	9.60	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.475	14.70	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.463	14.76	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.467	14.70	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.433	14.70	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.444	14.73	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.445	14.82	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.446	14.79	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.416	14.82	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.437	14.79	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.915	19.32	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.901	19.40	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.906	19.56	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.863	19.44	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.877	19.36	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.872	19.36	PASS
Band2	20MHz	64QAM	18700	100RB#0	17.864	19.48	PASS
Band2	20MHz	64QAM	18900	100RB#0	17.872	19.40	PASS
Band2	20MHz	64QAM	19100	100RB#0	17.883	19.44	PASS



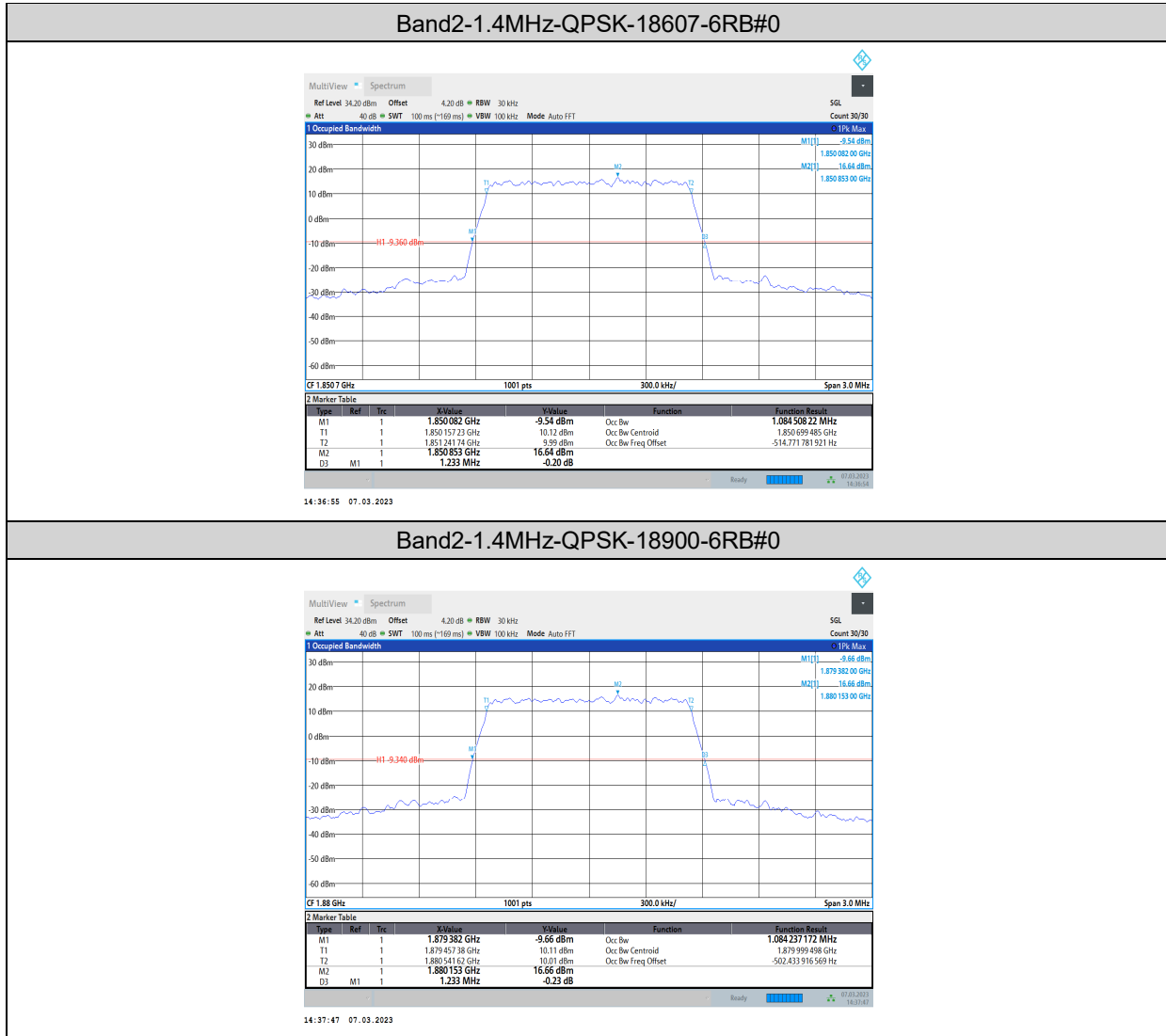
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Test Graphs

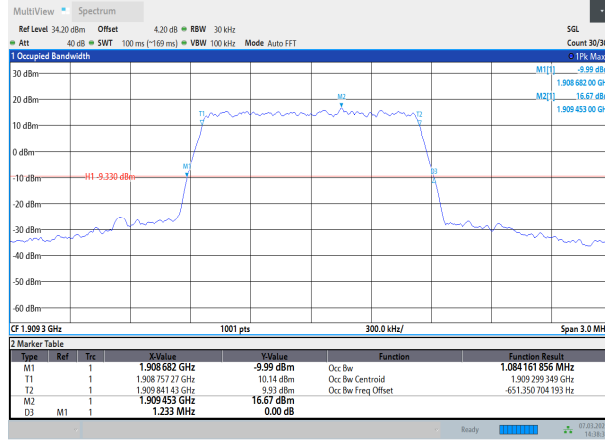


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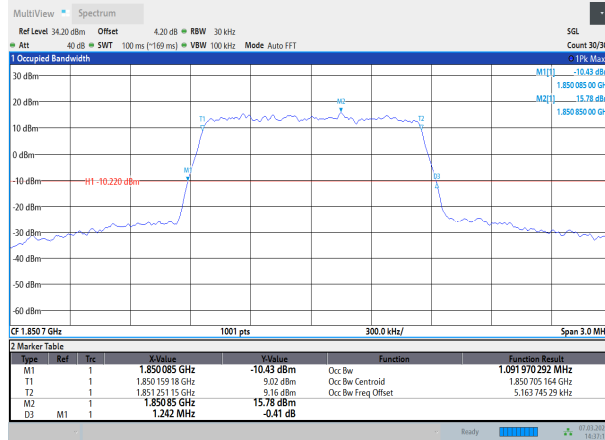
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Band2-1.4MHz-QPSK-19193-6RB#0



14:38:39 07.03.2023

Band2-1.4MHz-16QAM-18607-6RB#0



14:37:12 07.03.2023

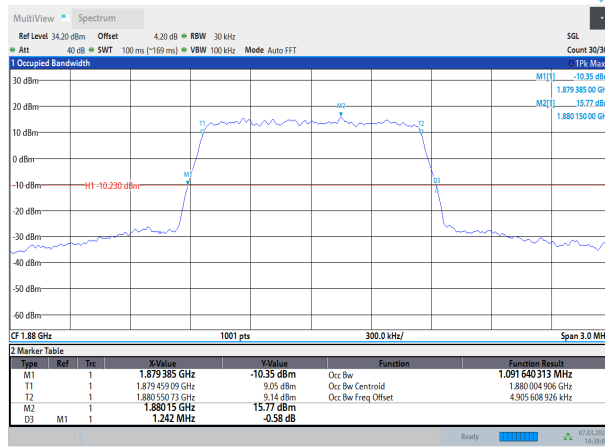


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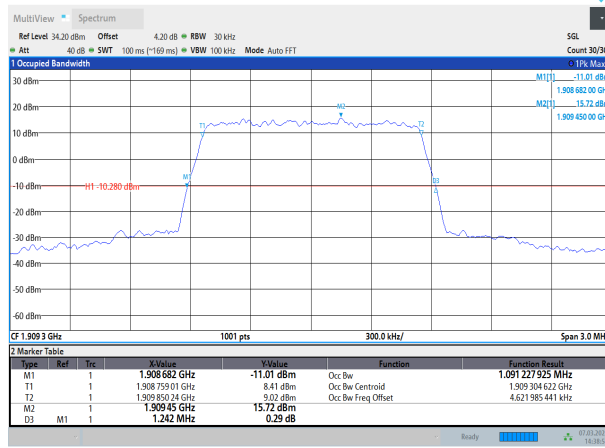
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Band2-1.4MHz-16QAM-18900-6RB#0



14:38:04 07.03.2023

Band2-1.4MHz-16QAM-19193-6RB#0



14:38:56 07.03.2023

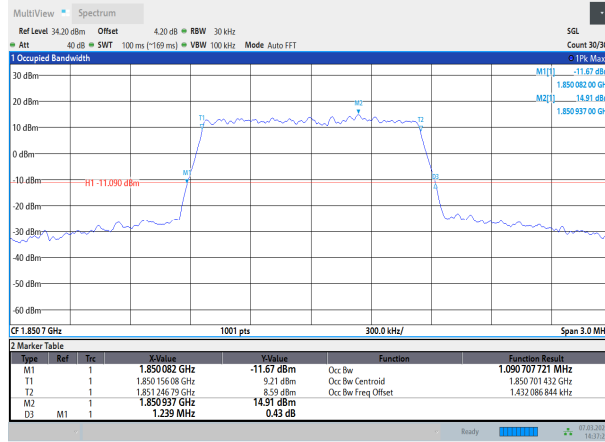


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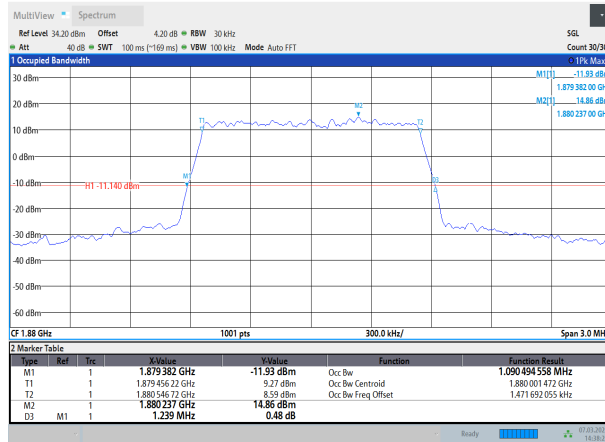
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Band2-1.4MHz-64QAM-18607-6RB#0



14:37:29 07.03.2023

Band2-1.4MHz-64QAM-18900-6RB#0



14:38:21 07.03.2023

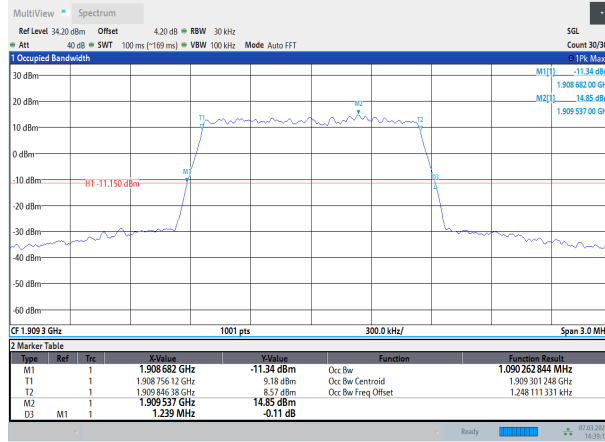


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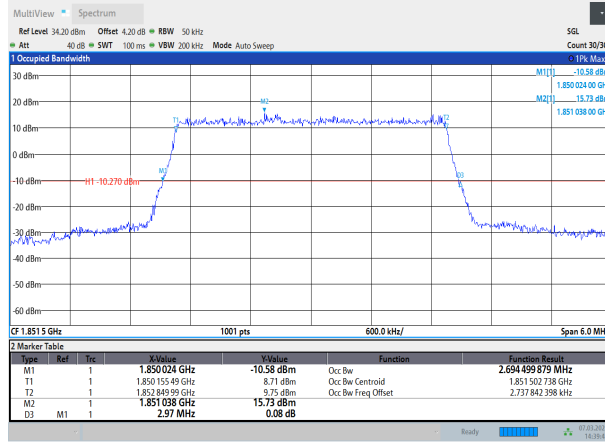
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Band2-1.4MHz-64QAM-19193-6RB#0



14:39:14 07.03.2023

Band2-3MHz-QPSK-18615-15RB#0



14:39:43 07.03.2023

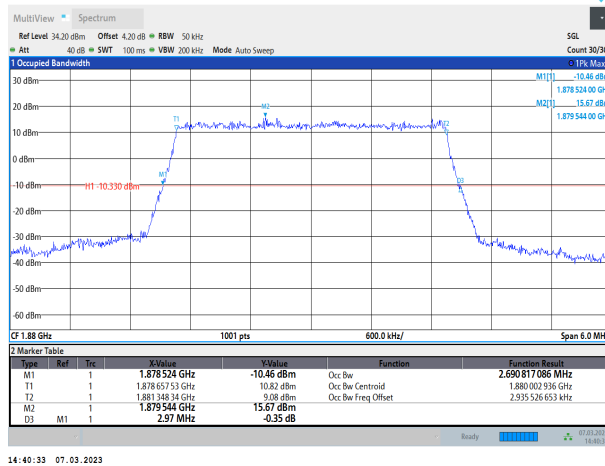


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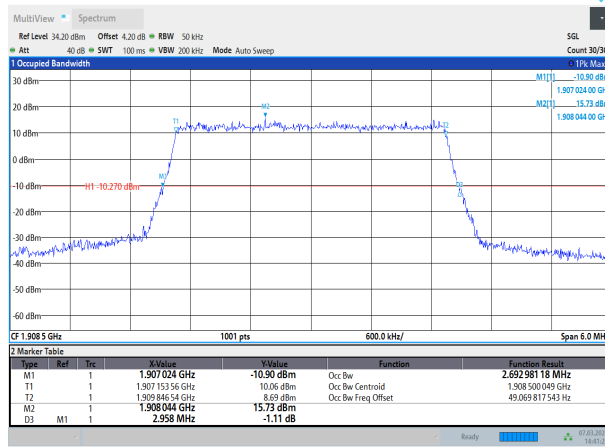
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Band2-3MHz-QPSK-18900-15RB#0



14:40:33 07.03.2023

Band2-3MHz-QPSK-19185-15RB#0



14:41:22 07.03.2023

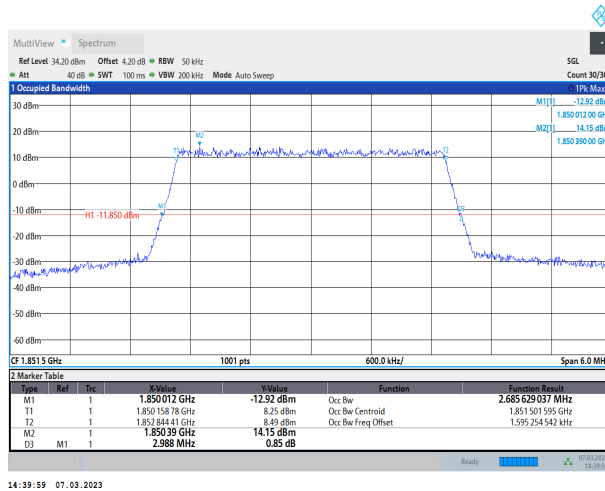


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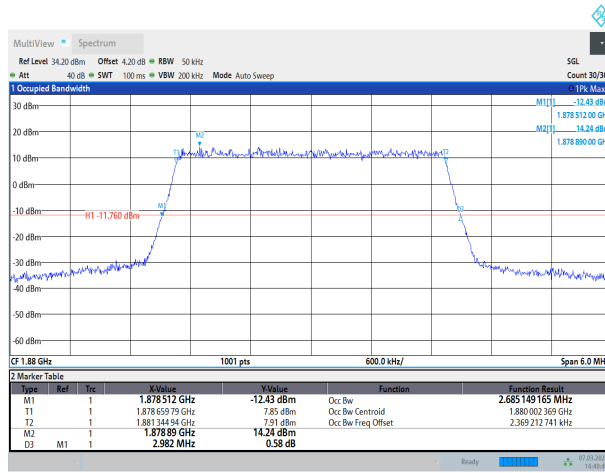
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Band2-3MHz-16QAM-18615-15RB#0



14:39:59 07.03.2023

Band2-3MHz-16QAM-18900-15RB#0



14:40:49 07.03.2023

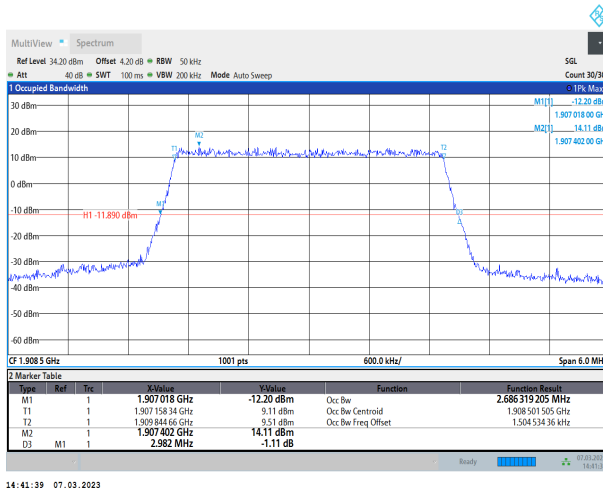


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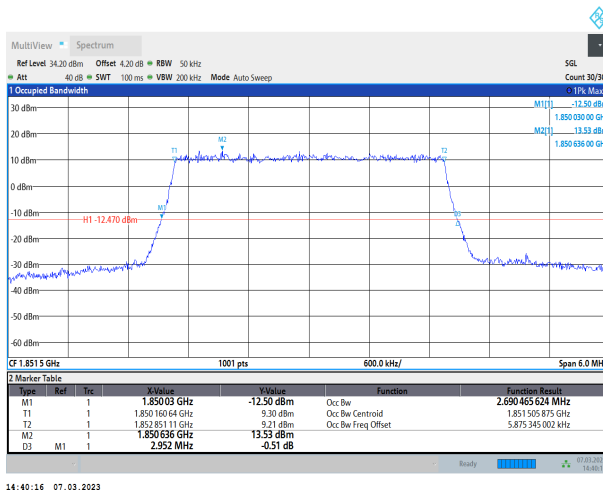
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Band2-3MHz-16QAM-19185-15RB#0



14:41:39 07.03.2023

Band2-3MHz-64QAM-18615-15RB#0



14:40:16 07.03.2023



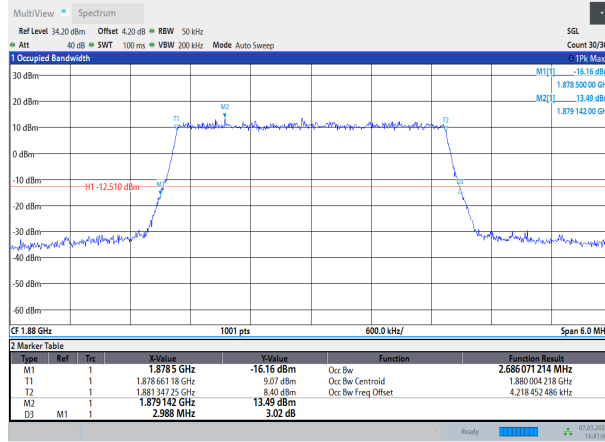
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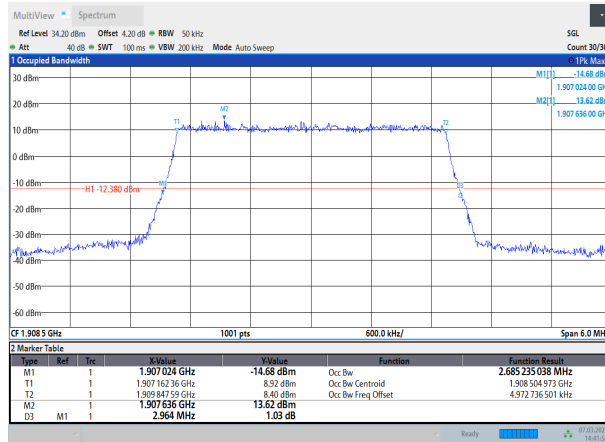


Band2-3MHz-64QAM-18900-15RB#0



14:41:05 07.03.2023

Band2-3MHz-64QAM-19185-15RB#0



14:41:55 07.03.2023

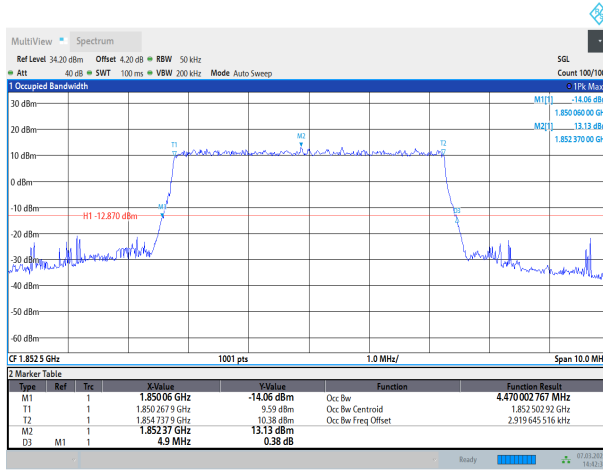


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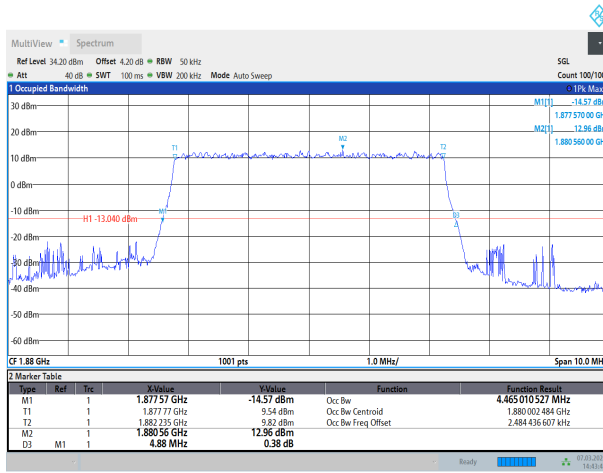
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Band2-5MHz-QPSK-18625-25RB#0



14:42:34 07.03.2023

Band2-5MHz-QPSK-18900-25RB#0



14:43:44 07.03.2023

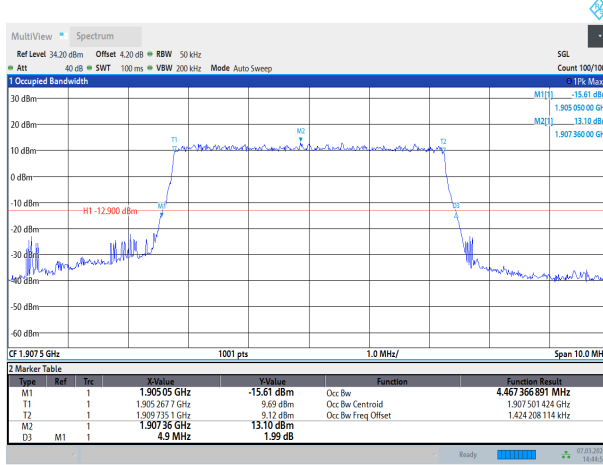


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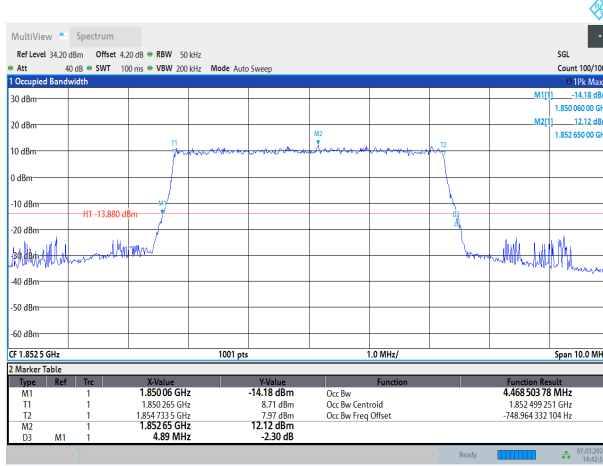
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Band2-5MHz-QPSK-19175-25RB#0



14:44:55 07.03.2023

Band2-5MHz-16QAM-18625-25RB#0



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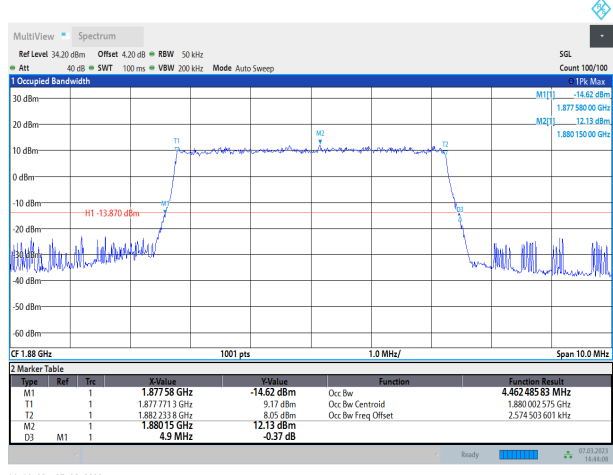


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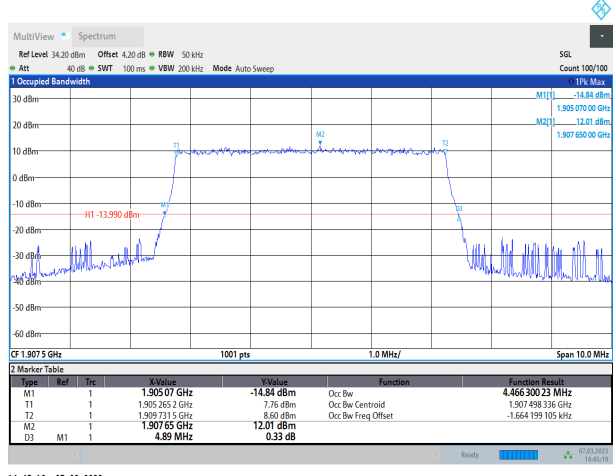
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Band2-5MHz-16QAM-18900-25RB#0



14:44:08 07.03.2023

Band2-5MHz-16QAM-19175-25RB#0



14:45:19 07.03.2023

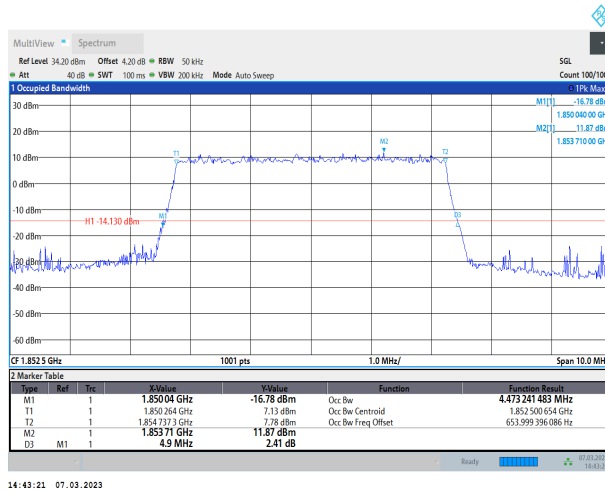


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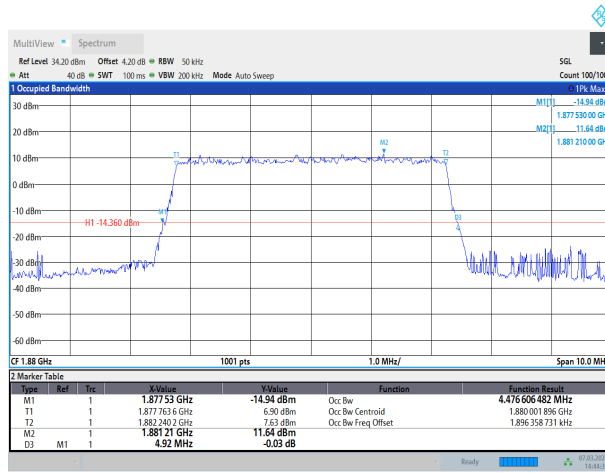
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Band2-5MHz-64QAM-18625-25RB#0



14:43:21 07.03.2023

Band2-5MHz-64QAM-18900-25RB#0



14:44:32 07.03.2023

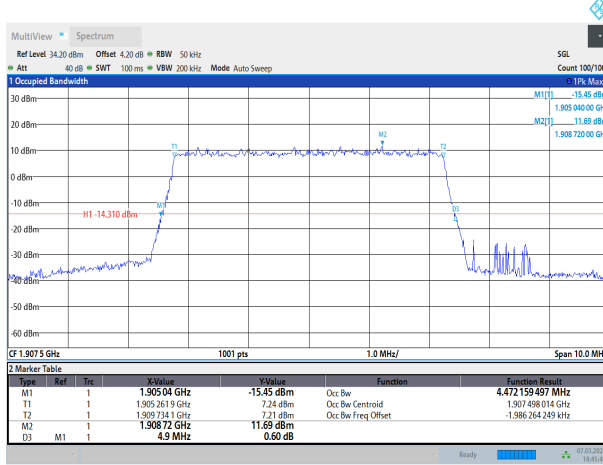


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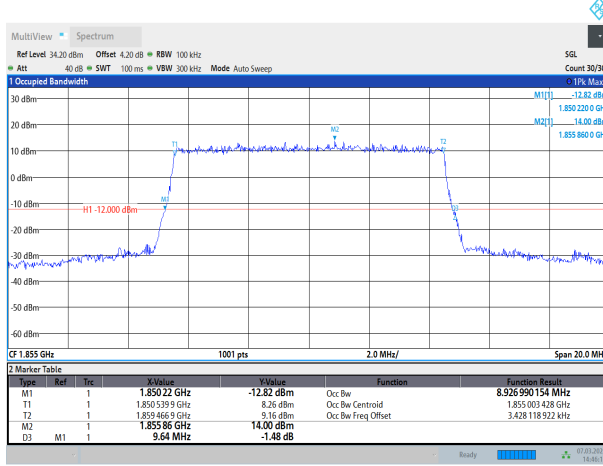
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Band2-5MHz-64QAM-19175-25RB#0



14:45:43 07.03.2023

Band2-10MHz-QPSK-18650-50RB#0



14:46:12 07.03.2023

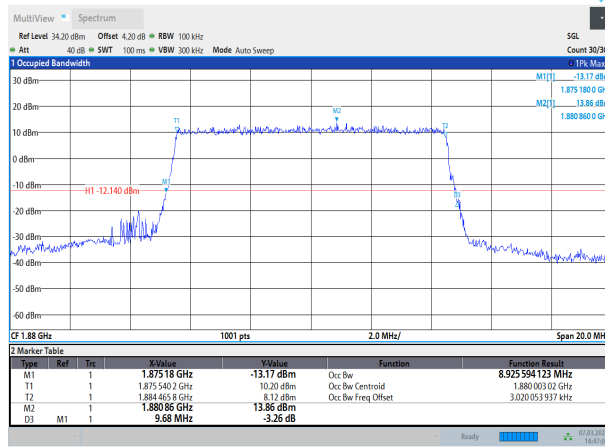


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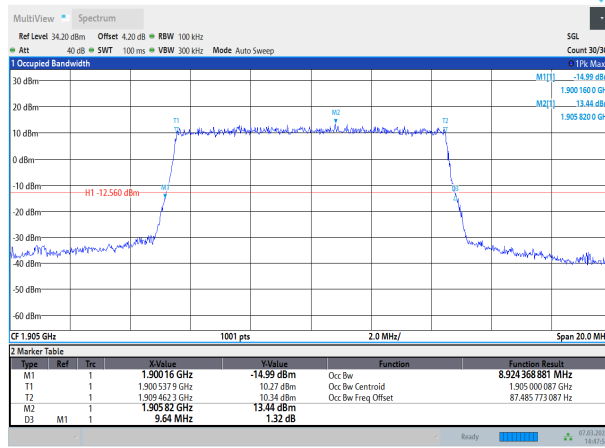
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Band2-10MHz-QPSK-18900-50RB#0



14:47:01 07.03.2023

Band2-10MHz-QPSK-19150-50RB#0



14:47:50 07.03.2023

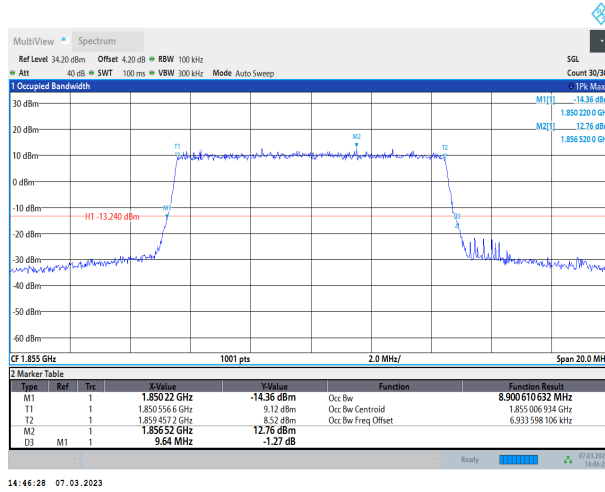


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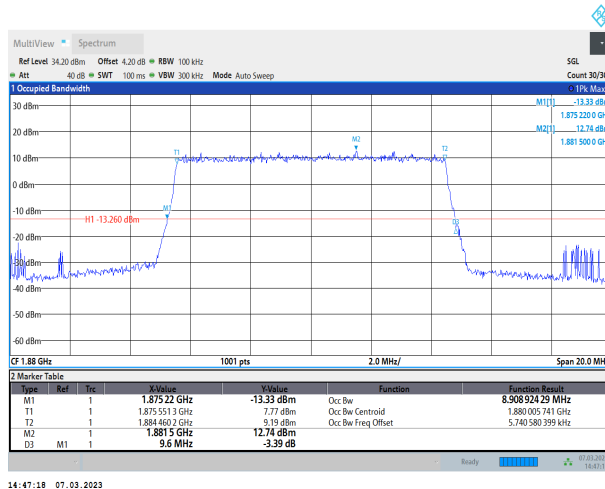
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Band2-10MHz-16QAM-18650-50RB#0



14:46:28 07.03.2023

Band2-10MHz-16QAM-18900-50RB#0



14:47:18 07.03.2023



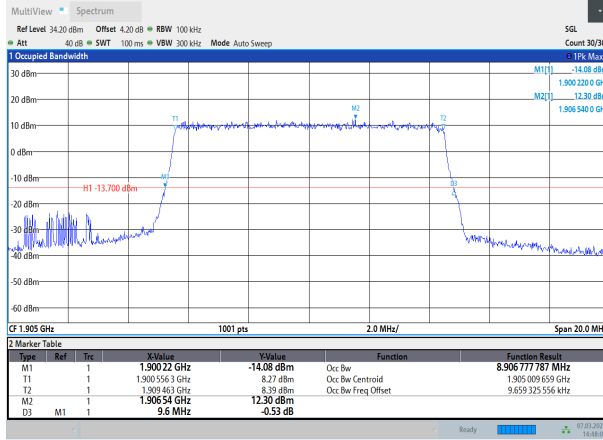
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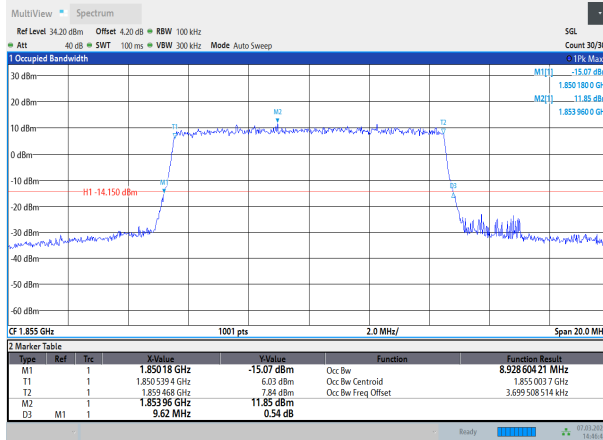


Band2-10MHz-16QAM-19150-50RB#0



14:48:07 07.03.2023

Band2-10MHz-64QAM-18650-50RB#0



14:46:45 07.03.2023

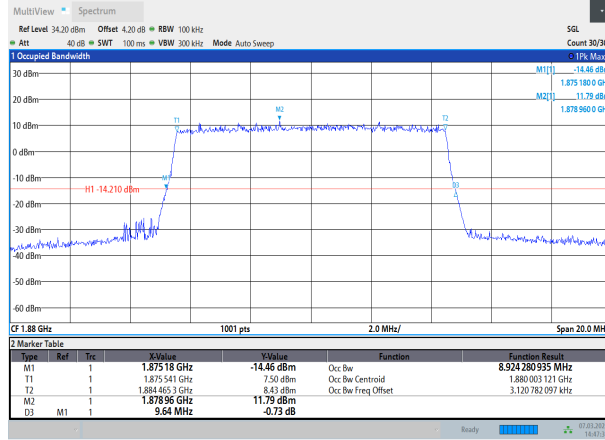


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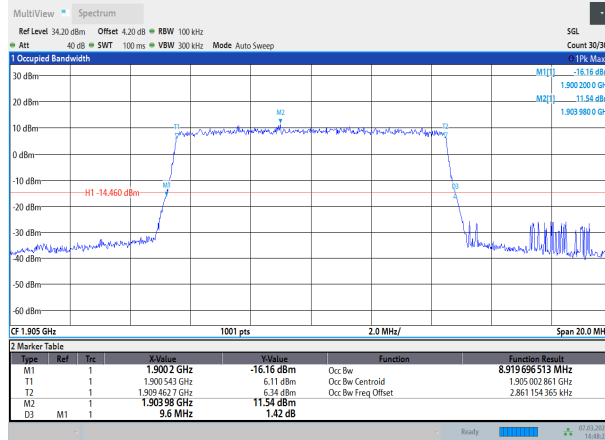
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Band2-10MHz-64QAM-18900-50RB#0



14:47:34 07.03.2023

Band2-10MHz-64QAM-19150-50RB#0



14:48:23 07.03.2023

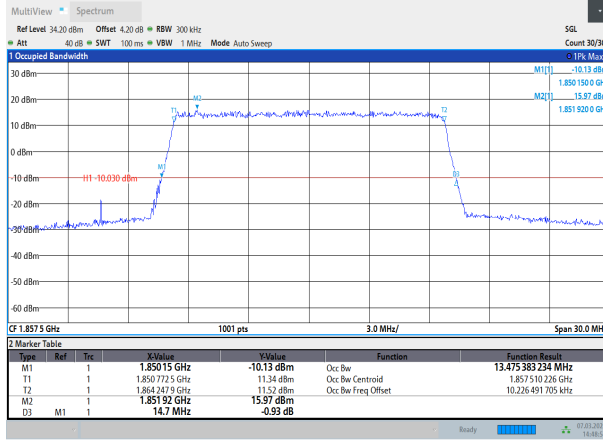


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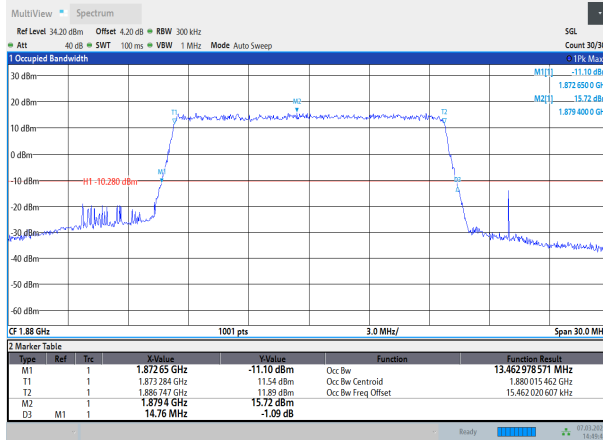
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Band2-15MHz-QPSK-18675-75RB#0



14:48:58 07.03.2023

Band2-15MHz-QPSK-18900-75RB#0



14:49:47 07.03.2023

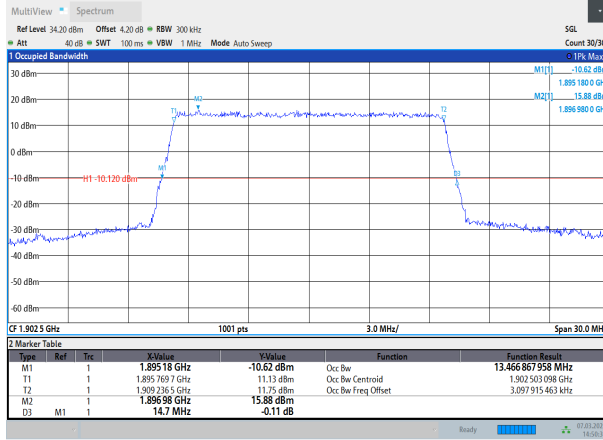


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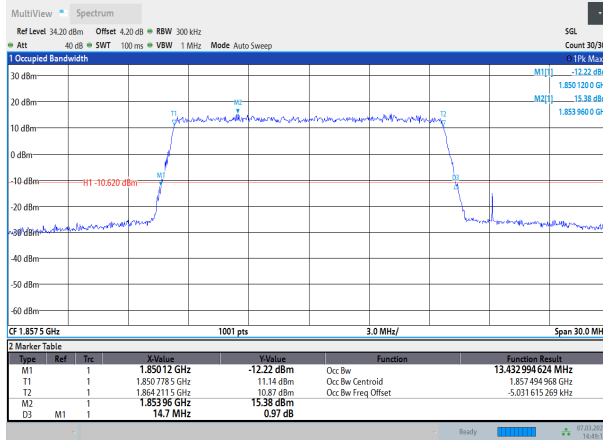
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Band2-15MHz-QPSK-19125-75RB#0



14:50:35 07.03.2023

Band2-15MHz-16QAM-18675-75RB#0



14:49:14 07.03.2023

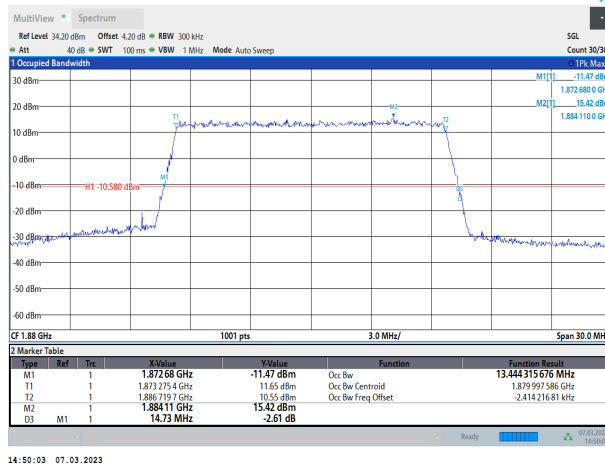


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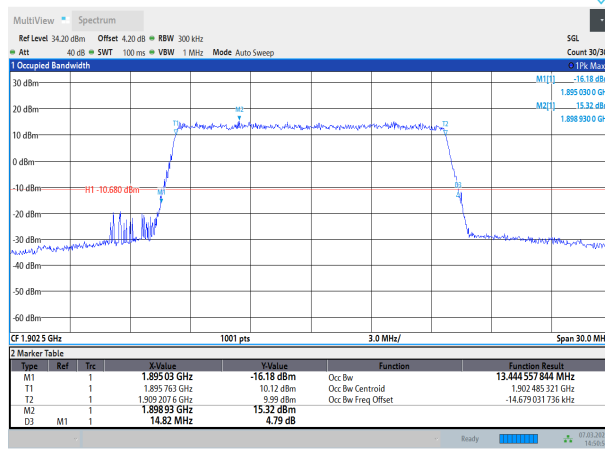
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14:50:03 07.03.2023

Band2-15MHz-16QAM-19125-75RB#0



14:50:51 07.03.2023

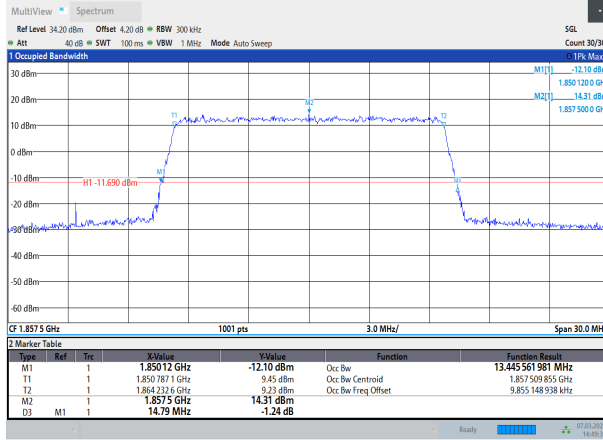


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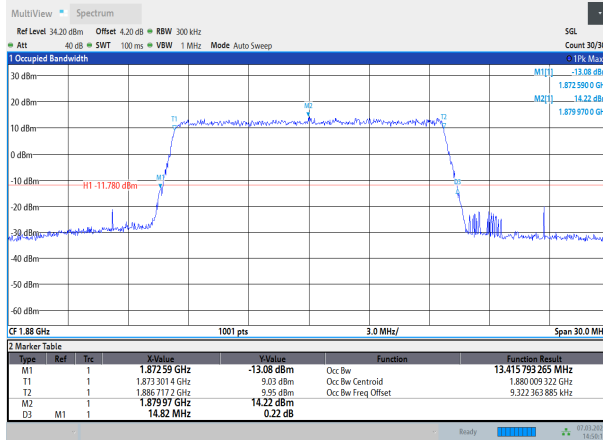
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Band2-15MHz-64QAM-18900-75RB#0



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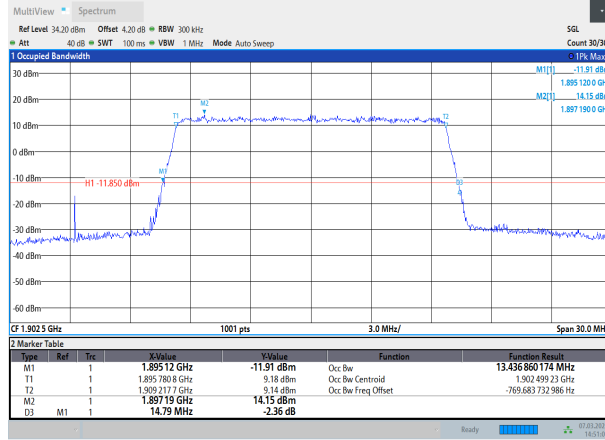


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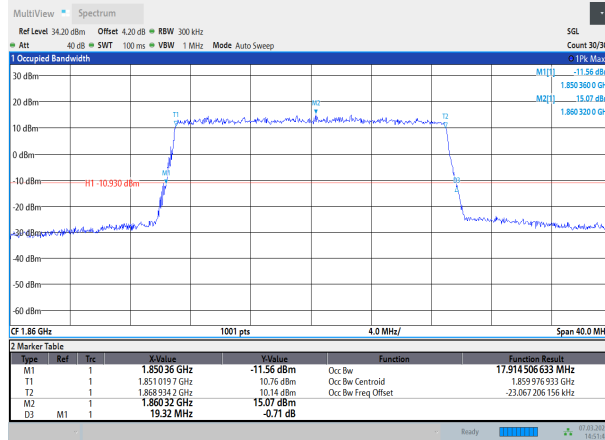
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Band2-15MHz-64QAM-19125-75RB#0



14:51:08 07.03.2023

Band2-20MHz-QPSK-18700-100RB#0



14:51:45 07.03.2023

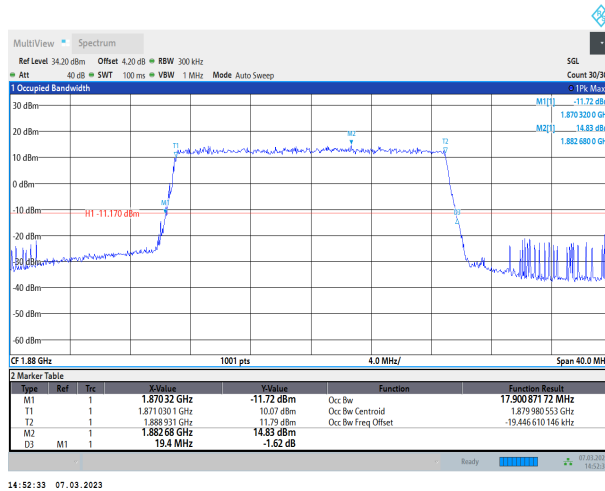


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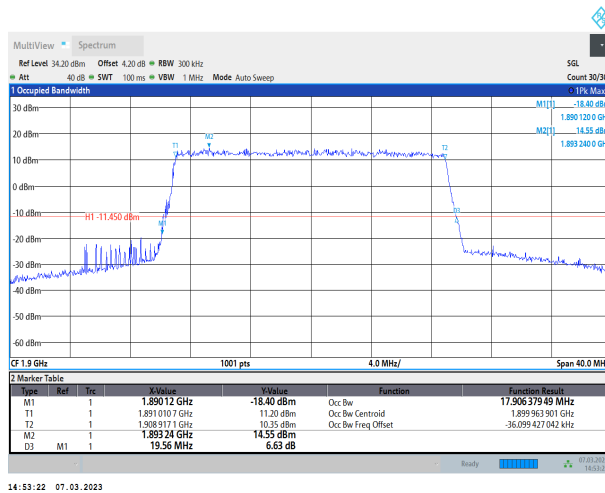
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Band2-20MHz-QPSK-18900-100RB#0



Band2-20MHz-QPSK-19100-100RB#0



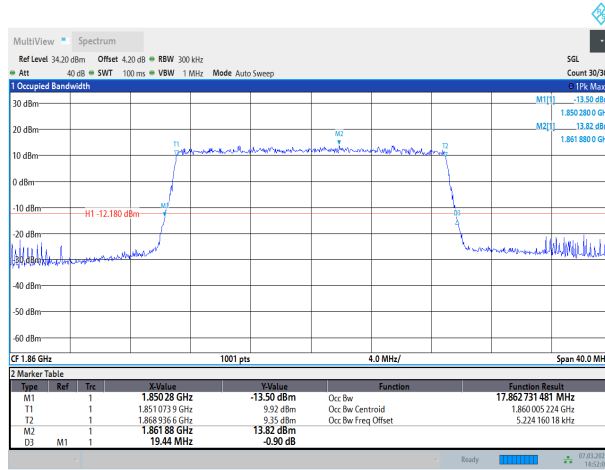
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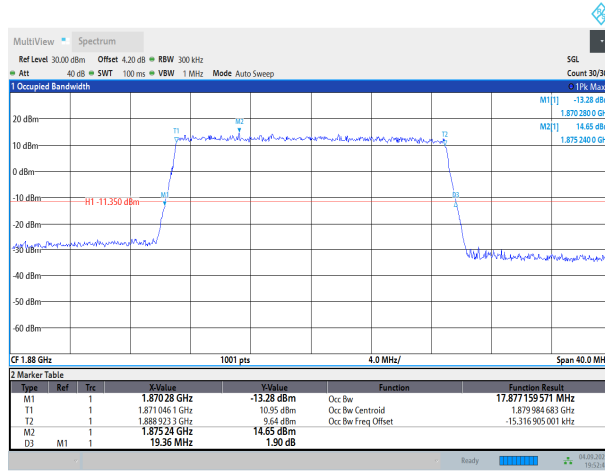


Band2-20MHz-16QAM-18700-100RB#0



14:52:01 07.03.2023

Band2-20MHz-16QAM-18900-100RB#0



19:52:41 04.09.2023

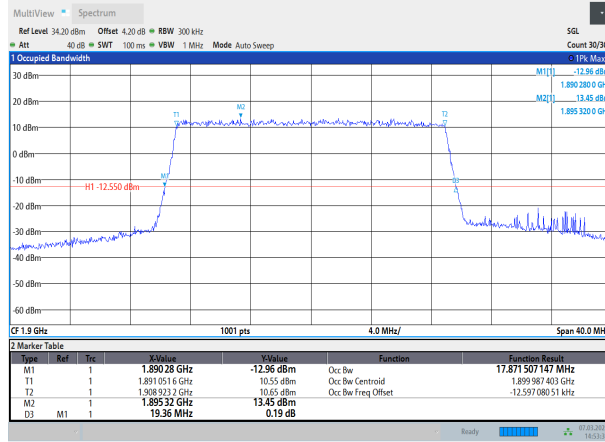


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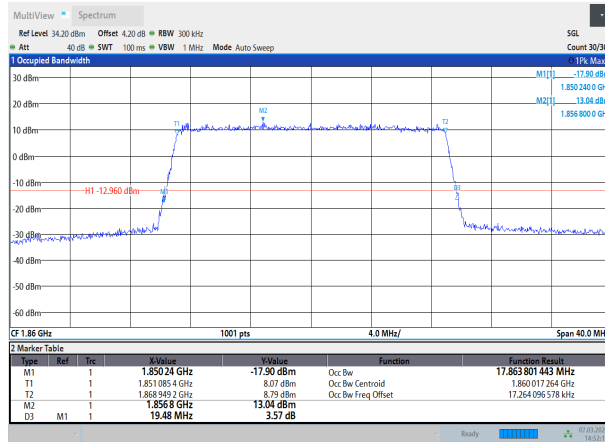
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Band2-20MHz-16QAM-19100-100RB#0



14:53:38 07.03.2023

Band2-20MHz-64QAM-18700-100RB#0



14:52:17 07.03.2023

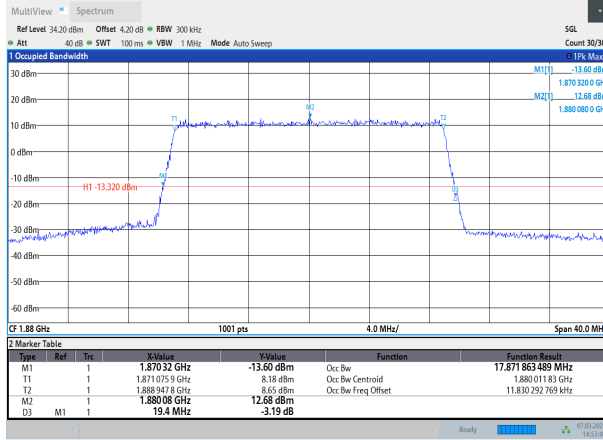


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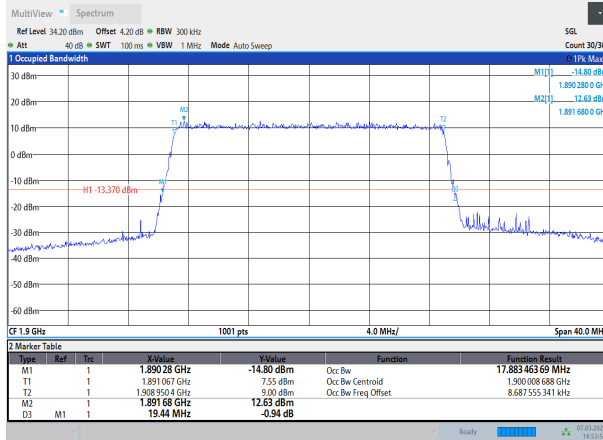
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Band2-20MHz-64QAM-18900-100RB#0



14:53:06 07.03.2023

Band2-20MHz-64QAM-19100-100RB#0



14:53:56 07.03.2023



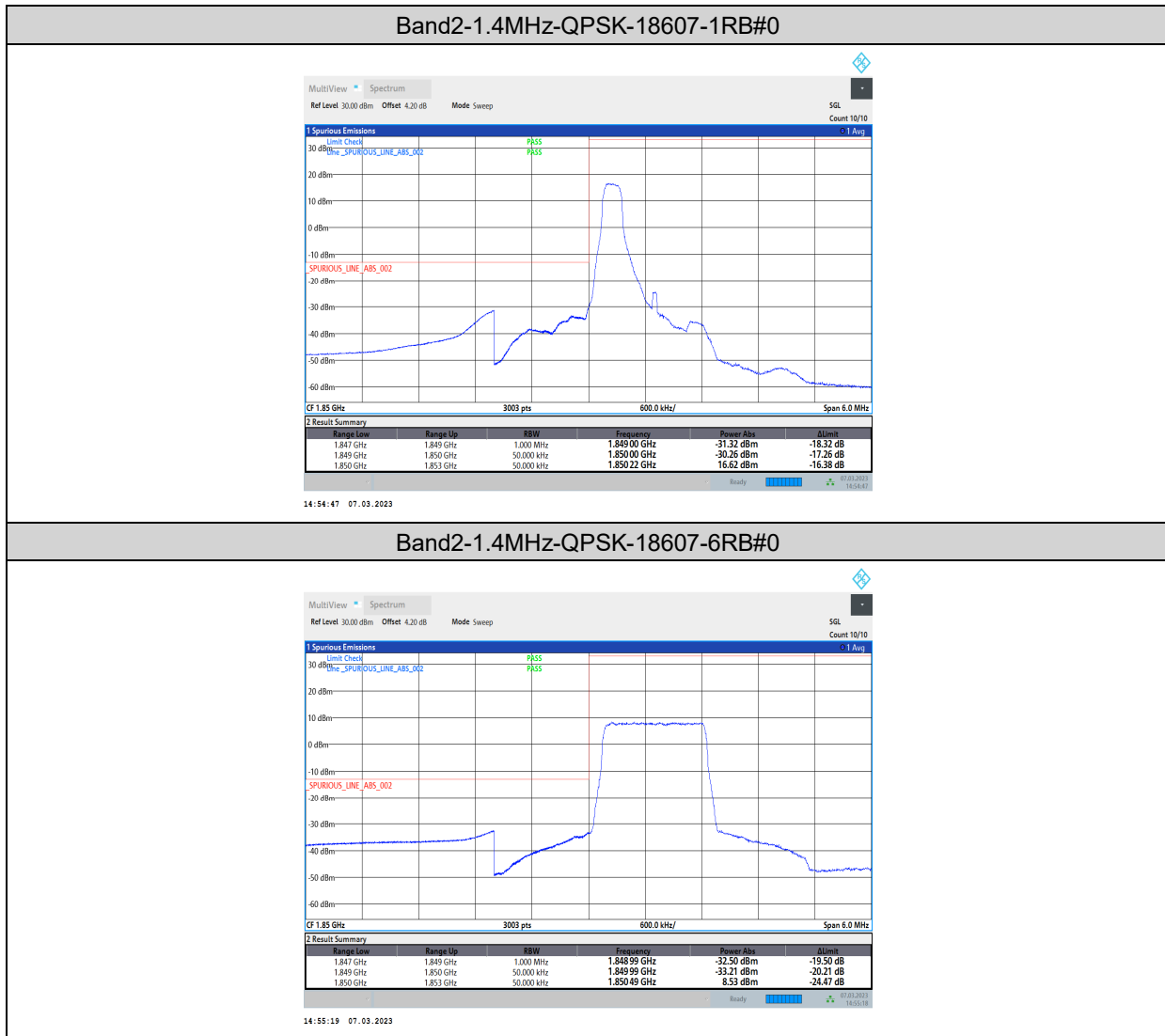
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## Band Edge

## Test Graphs

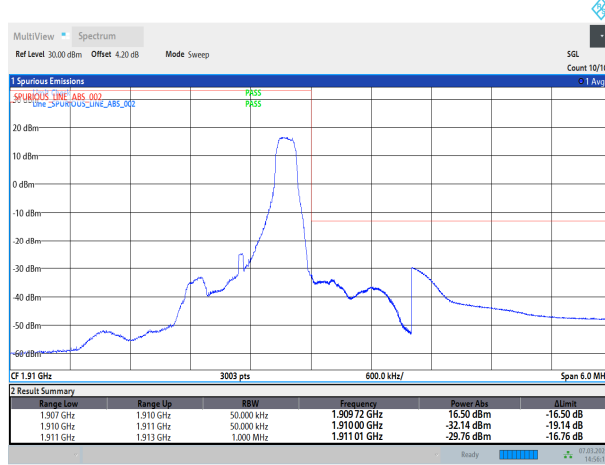


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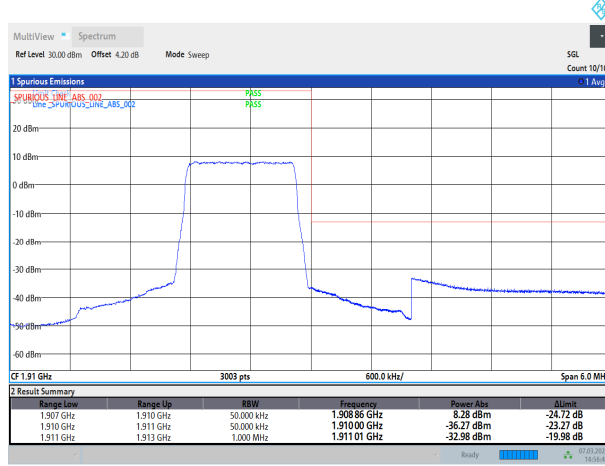
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Band2-1.4MHz-QPSK-19193-1RB#5



14:56:10 07.03.2023

Band2-1.4MHz-QPSK-19193-6RB#0



14:56:42 07.03.2023

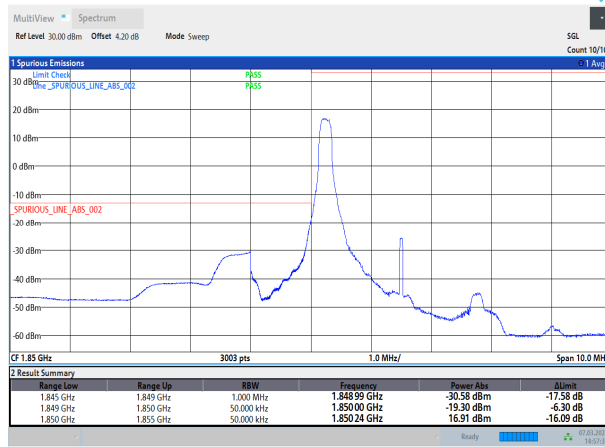


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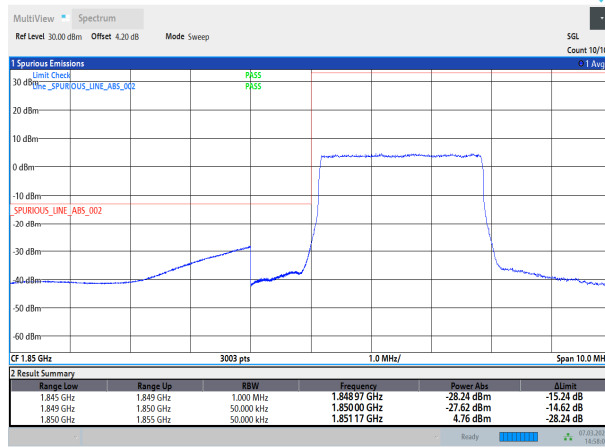
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Band2-3MHz-QPSK-18615-1RB#0



14:57:34 07.03.2023

Band2-3MHz-QPSK-18615-15RB#0



14:58:06 07.03.2023

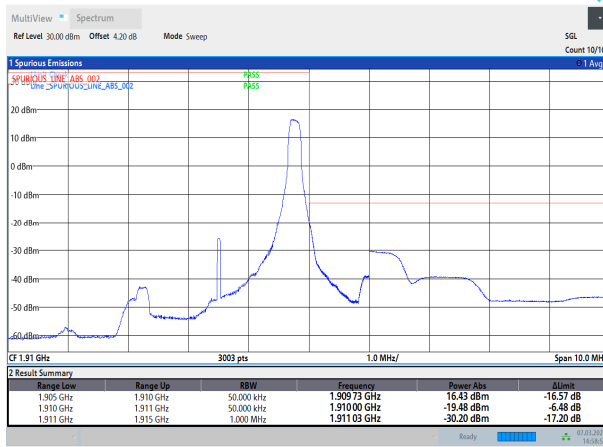


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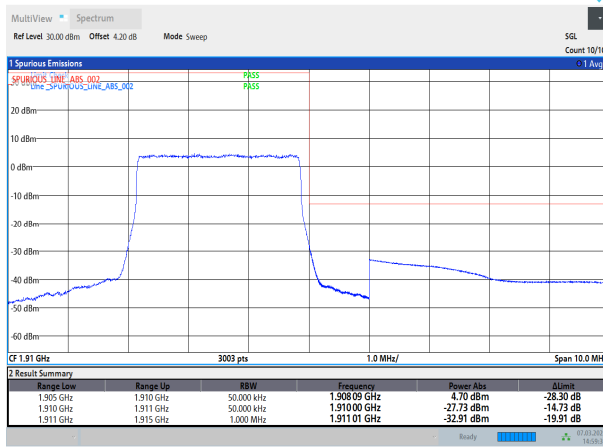
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Band2-3MHz-QPSK-19185-1RB#14



14:58:59 07.03.2023

Band2-3MHz-QPSK-19185-15RB#0



14:59:31 07.03.2023

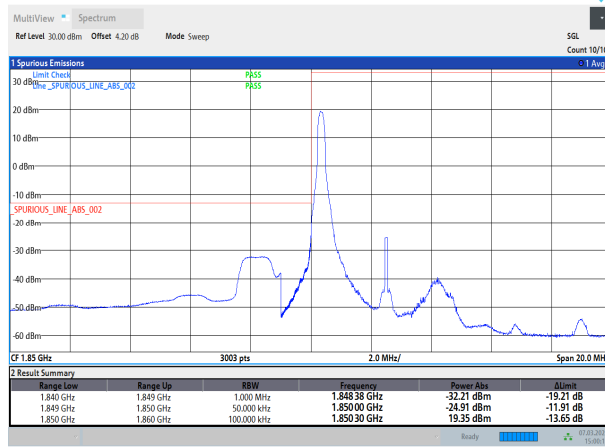


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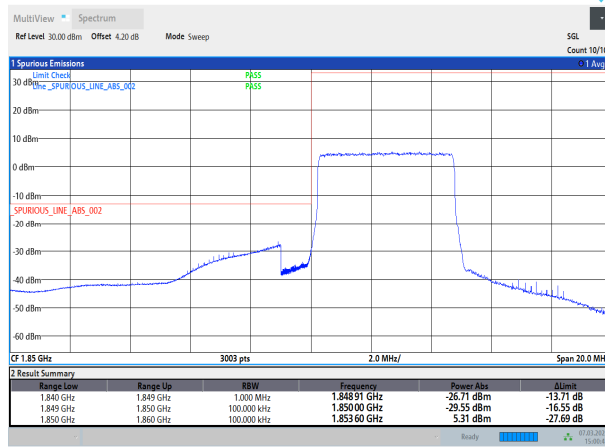
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Band2-5MHz-QPSK-18625-1RB#0



15:00:19 07.03.2023

Band2-5MHz-QPSK-18625-25RB#0



15:00:41 07.03.2023



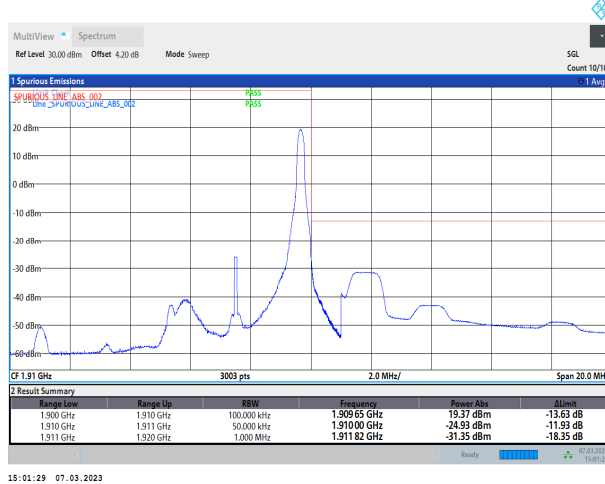
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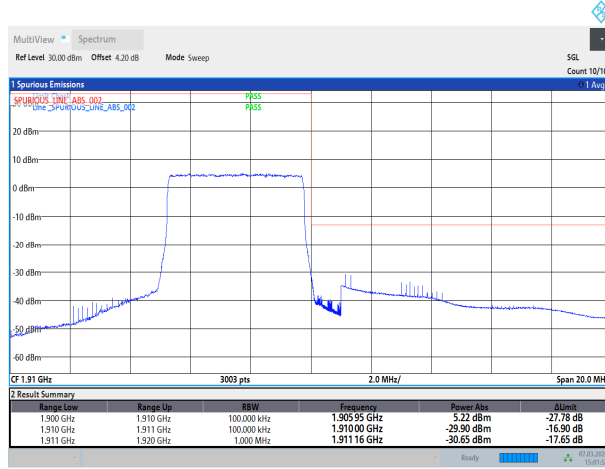


Band2-5MHz-QPSK-19175-1RB#24



15:01:29 07.03.2023

Band2-5MHz-QPSK-19175-25RB#0



15:01:52 07.03.2023

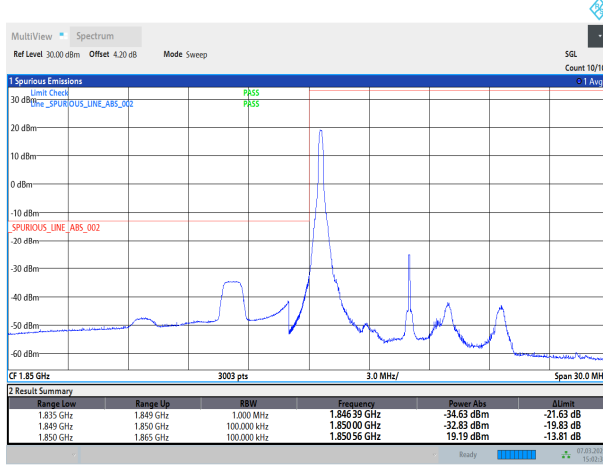


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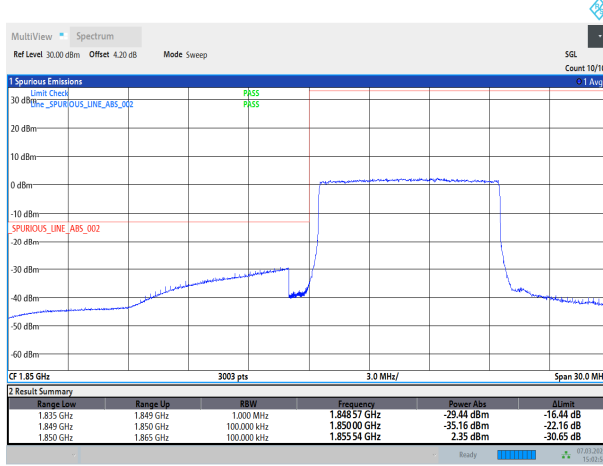
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Band2-10MHz-QPSK-18650-1RB#0



15:02:37 07.03.2023

Band2-10MHz-QPSK-18650-50RB#0



15:03:00 07.03.2023

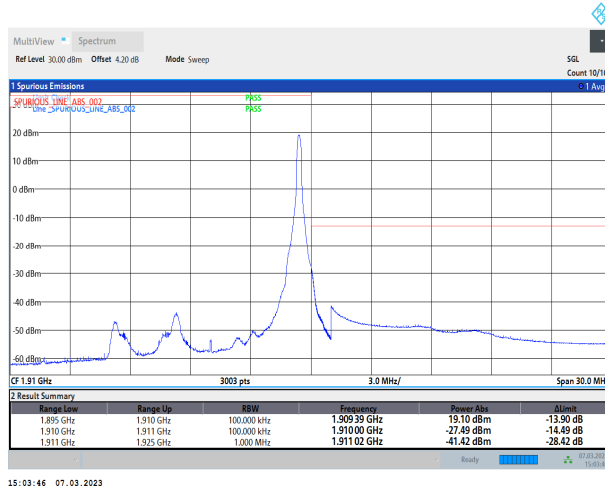


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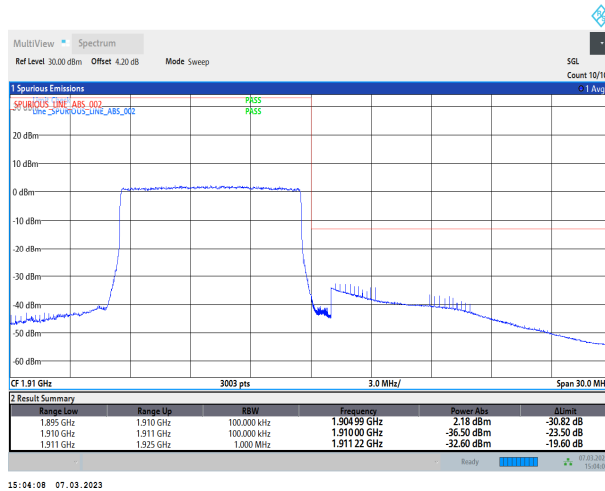
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Band2-10MHz-QPSK-19150-1RB#49



Band2-10MHz-QPSK-19150-50RB#0

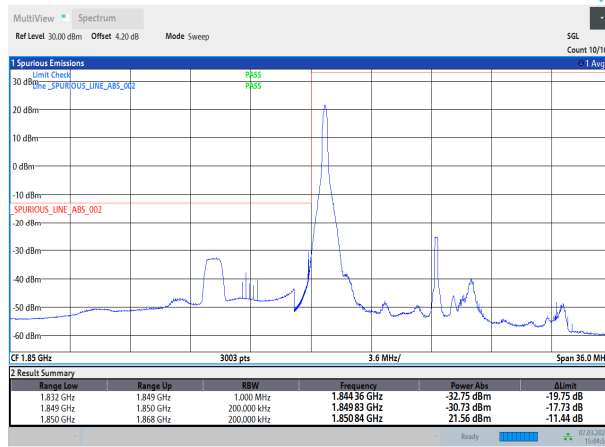


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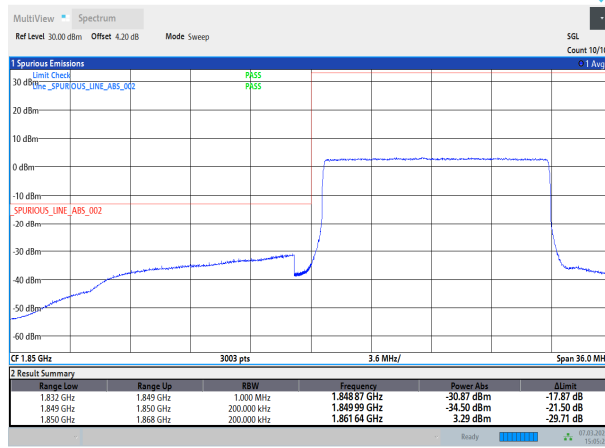
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Band2-15MHz-QPSK-18675-1RB#0



15:04:56 07.03.2023

Band2-15MHz-QPSK-18675-75RB#0



15:05:20 07.03.2023

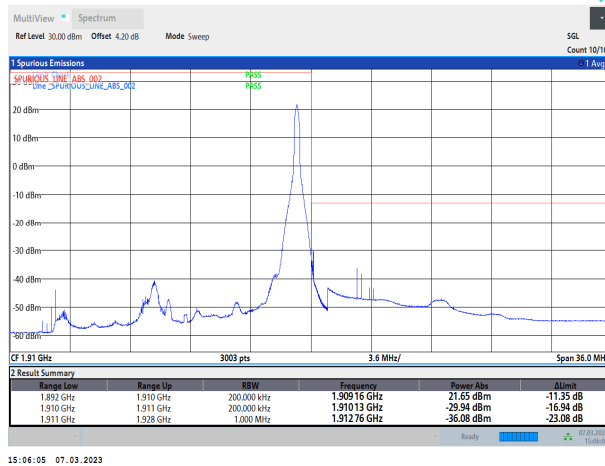


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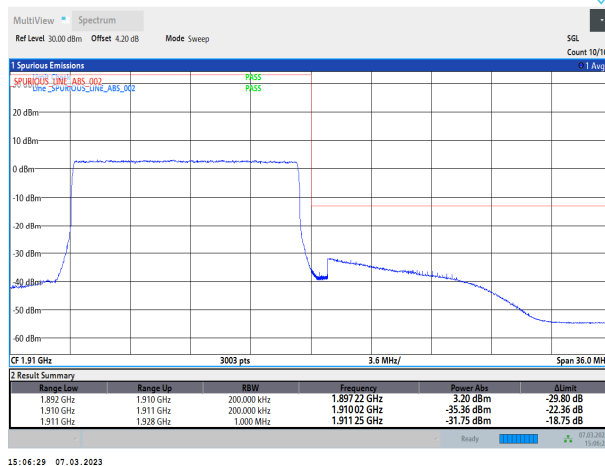
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Band2-15MHz-QPSK-19125-1RB#74



Band2-15MHz-QPSK-19125-75RB#0

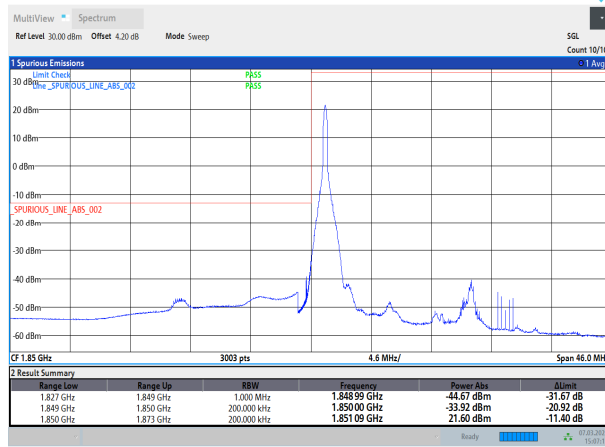


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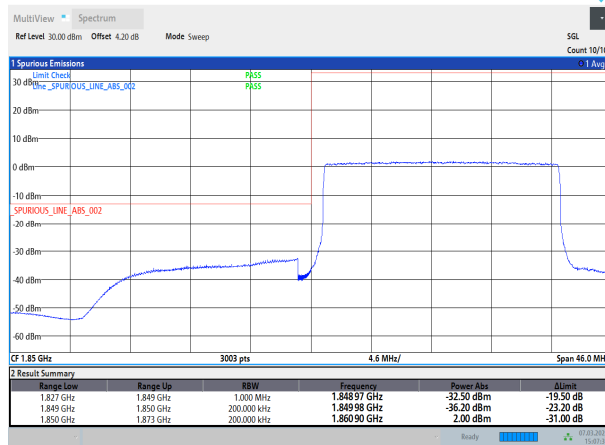
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Band2-20MHz-QPSK-18700-1RB#0



15:07:14 07.03.2023

Band2-20MHz-QPSK-18700-100RB#0



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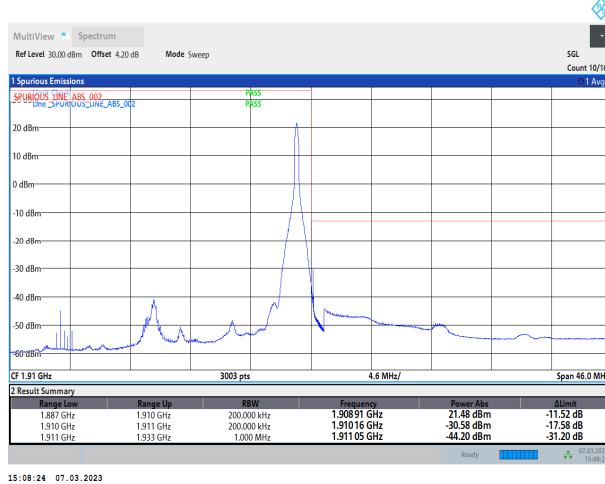


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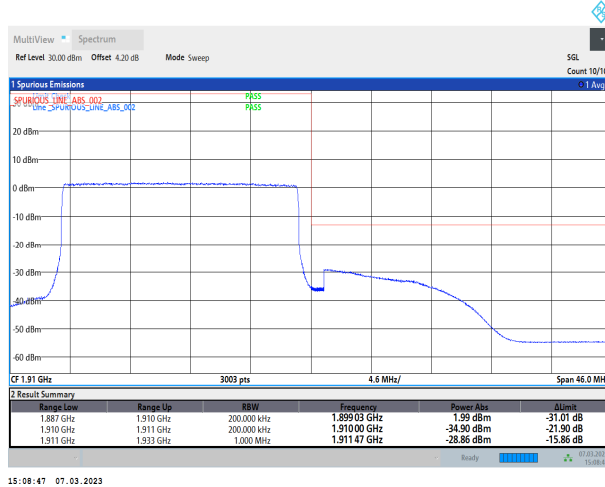
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Band2-20MHz-QPSK-19100-1RB#99



Band2-20MHz-QPSK-19100-100RB#0



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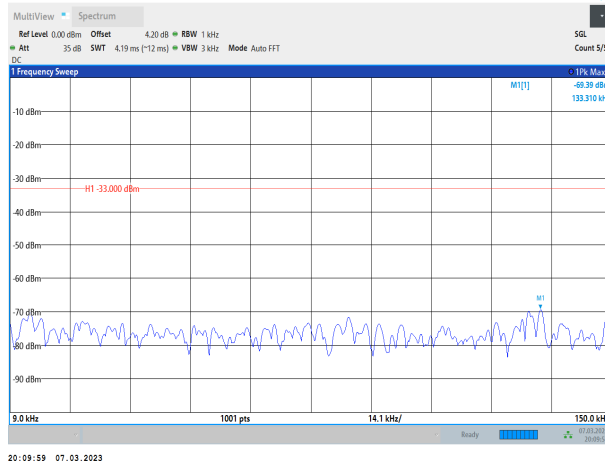
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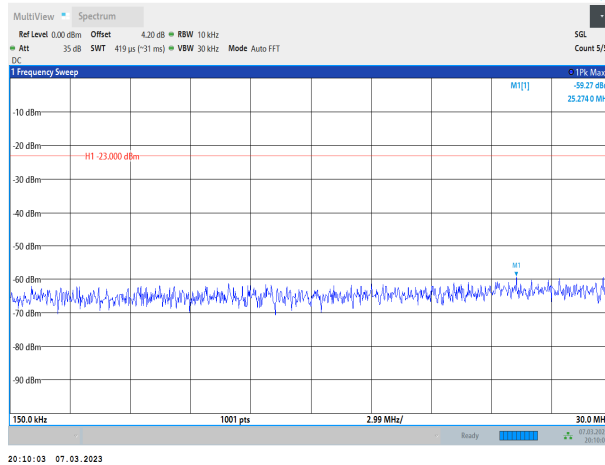
## Conducted Spurious Emission

### Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz

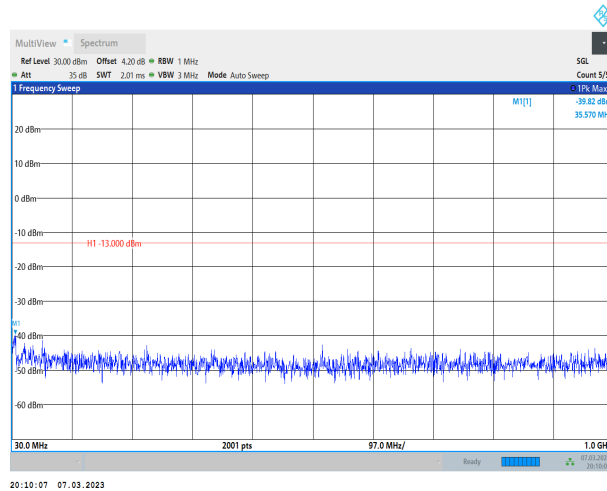


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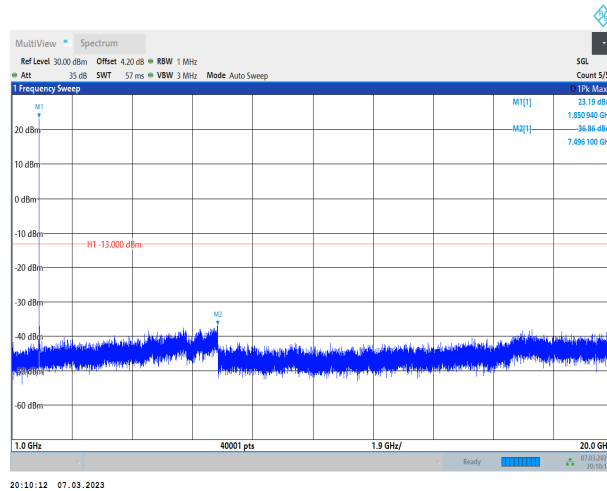
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz

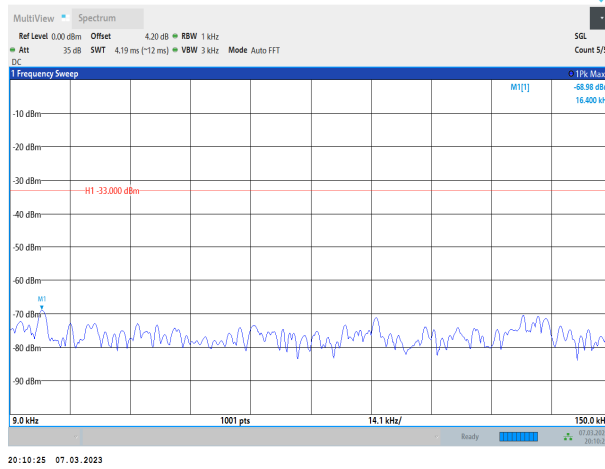


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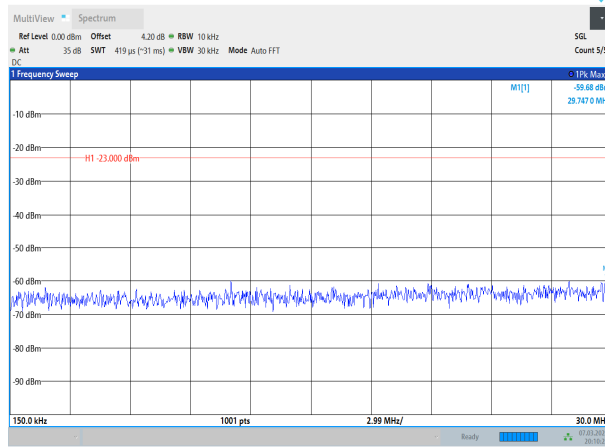
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



20:10:25 07.03.2023

Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



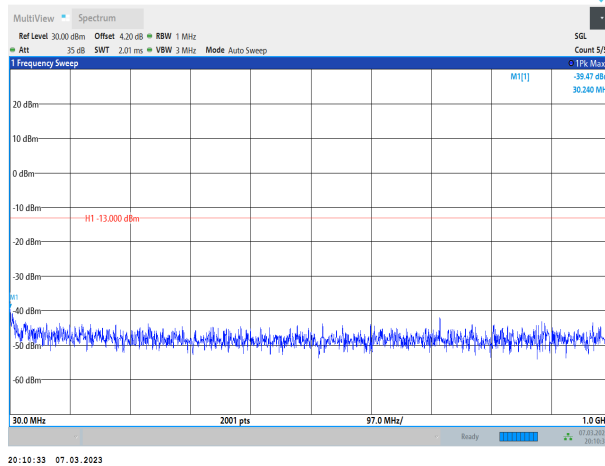
20:10:29 07.03.2023



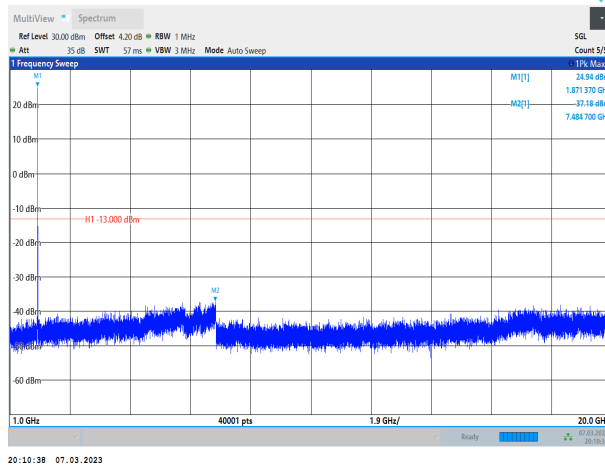
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz

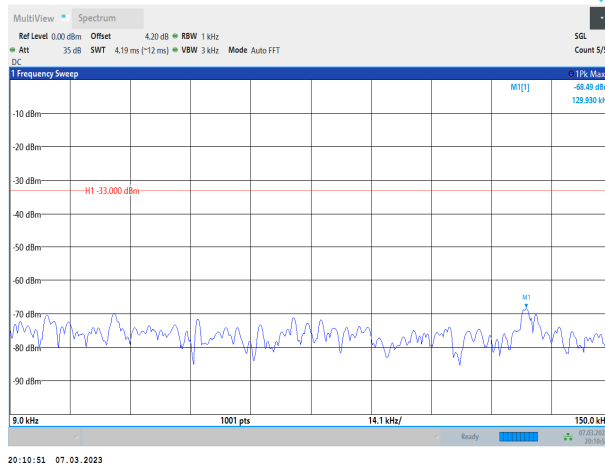


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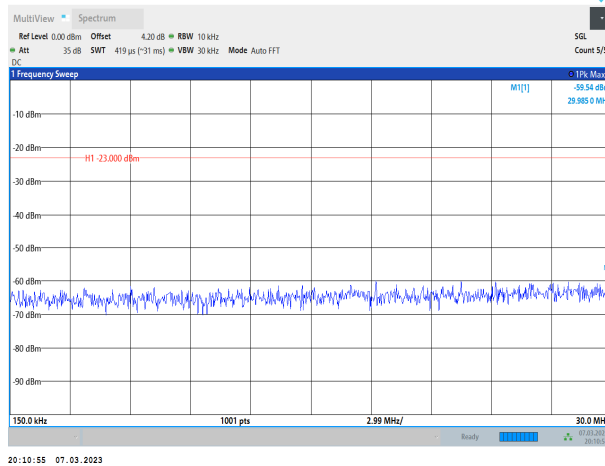
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



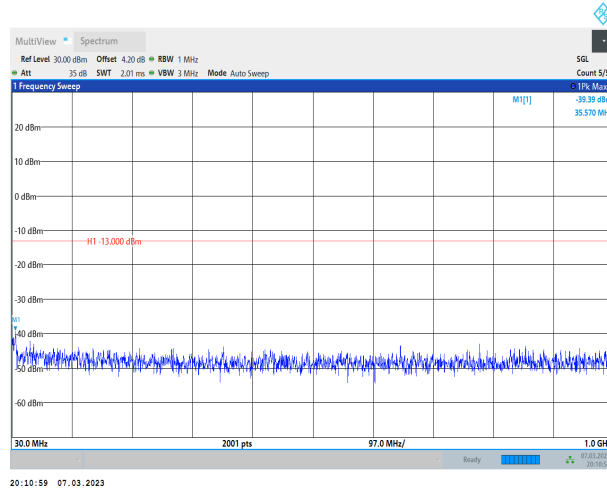
Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



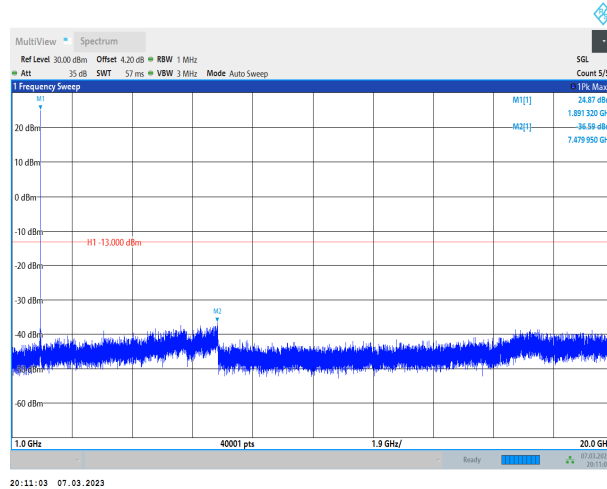
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 2\_ 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	3702.18	42.17	-45.69	29.89	-68.90	-13.00	55.90	214	151	Horizontal
2	5553.27	41.26	-43.87	32.77	-65.10	-13.00	52.10	186	4	Horizontal
3	7404.36	38.63	-41.96	36.44	-62.15	-13.00	49.15	239	50	Horizontal
4	9255.45	33.91	-38.39	38.57	-61.17	-13.00	48.17	284	216	Horizontal
5	11106.54	31.70	-35.35	39.49	-59.42	-13.00	46.42	154	267	Horizontal
6	12957.63	33.29	-34.89	39.56	-57.31	-13.00	44.31	164	68	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	3702.18	42.23	-45.69	29.89	-68.84	-13.00	55.84	296	131	Vertical
2	5553.27	41.05	-43.87	32.77	-65.31	-13.00	52.31	233	114	Vertical
3	7404.36	39.09	-41.96	36.44	-61.69	-13.00	48.69	187	98	Vertical
4	9255.45	34.10	-38.39	38.57	-60.98	-13.00	47.98	142	352	Vertical
5	11106.54	32.51	-35.35	39.49	-58.61	-13.00	45.61	159	261	Vertical
6	12957.63	33.95	-34.89	39.56	-56.65	-13.00	43.65	220	179	Vertical



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**Test Band = LTE Band 2\_ 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	3742.18	43.89	-45.59	29.98	-66.97	-13.00	53.97	178	116	Horizontal
2	5613.27	41.39	-43.84	32.96	-64.75	-13.00	51.75	169	263	Horizontal
3	7484.36	39.81	-41.66	36.49	-60.62	-13.00	47.62	289	279	Horizontal
4	9355.45	35.11	-38.26	38.56	-59.85	-13.00	46.85	213	149	Horizontal
5	11226.54	32.18	-35.07	39.37	-58.77	-13.00	45.77	284	20	Horizontal
6	13097.63	32.65	-34.47	39.66	-57.42	-13.00	44.42	166	132	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	3742.18	47.47	-45.59	29.98	-63.39	-13.00	50.39	162	38	Vertical
2	5613.27	40.82	-43.84	32.96	-65.32	-13.00	52.32	235	0	Vertical
3	7484.36	39.55	-41.66	36.49	-60.88	-13.00	47.88	147	331	Vertical
4	9355.45	34.58	-38.26	38.56	-60.38	-13.00	47.38	185	69	Vertical
5	11226.54	32.40	-35.07	39.37	-58.55	-13.00	45.55	166	0	Vertical
6	13097.63	32.01	-34.47	39.66	-58.06	-13.00	45.06	254	21	Vertical



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**Test Band = LTE Band 2\_ 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	3782.18	41.48	-45.48	30.08	-69.18	-13.00	56.18	263	3	Horizontal
2	5673.27	41.44	-43.77	33.16	-64.44	-13.00	51.44	245	196	Horizontal
3	7564.36	37.17	-41.38	36.63	-62.84	-13.00	49.84	198	148	Horizontal
4	9455.45	36.07	-38.15	38.55	-58.79	-13.00	45.79	182	131	Horizontal
5	11346.54	31.24	-35.43	39.25	-60.20	-13.00	47.20	154	32	Horizontal
6	13237.63	32.38	-34.98	39.74	-58.11	-13.00	45.11	132	80	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	3782.18	40.15	-45.48	30.08	-70.51	-13.00	57.51	147	230	Vertical
2	5673.27	40.67	-43.77	33.16	-65.21	-13.00	52.21	189	3	Vertical
3	7564.36	37.18	-41.38	36.63	-62.83	-13.00	49.83	216	354	Vertical
4	9455.45	37.31	-38.15	38.55	-57.55	-13.00	44.55	229	345	Vertical
5	11346.54	32.25	-35.43	39.25	-59.19	-13.00	46.19	286	3	Vertical
6	13237.63	31.47	-34.98	39.74	-59.02	-13.00	46.02	247	81	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	7.50	0.003989	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-5.90	-0.003138	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	3.90	0.002074	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-3.90	-0.002074	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-10.70	-0.005691	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	4.40	0.002340	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-5.30	-0.002819	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-9.10	-0.004840	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-4.00	-0.002128	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-0.50	-0.000266	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-9.60	-0.005106	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-1.20	-0.000638	PASS

---End of Attachment---



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