



Report No.: SEWM2311000471RG01

Rev.: 01

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Appendix B.5

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	20.07	21.17	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	20.05	21.15	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	19.96	21.06	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	19.95	21.05	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	20.04	21.14	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	19.99	21.09	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	19.99	21.09	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	19.92	21.02	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	19.92	21.02	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.01	21.11	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	19.96	21.06	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	19.89	20.99	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	19.94	21.04	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	20.08	21.18	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	19.92	21.02	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	19.95	21.05	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	19.98	21.08	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	19.96	21.06	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	19.96	21.06	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.03	21.13	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.08	21.18	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.03	21.13	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	19.99	21.09	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.94	21.04	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	19.87	20.97	30.00	PASS



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Band4	1.4MHz	QPSK	20393	1RB#2	20.07	21.17	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	20.01	21.11	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	19.87	20.97	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	19.95	21.05	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	20.03	21.13	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20.02	21.12	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	19.96	21.06	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.1	21.2	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20	21.1	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	19.97	21.07	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.94	21.04	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	20.04	21.14	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	20.08	21.18	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	19.98	21.08	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	20.03	21.13	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	20.02	21.12	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	19.98	21.08	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	19.95	21.05	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	19.98	21.08	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	19.91	21.01	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	20	21.1	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	19.98	21.08	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.9	21	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	19.98	21.08	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	20.02	21.12	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	19.89	20.99	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	19.91	21.01	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	20.02	21.12	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	19.95	21.05	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	19.87	20.97	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.03	21.13	30.00	PASS



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Band4	3MHz	64QAM	20175	1RB#0	20.02	21.12	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.11	21.21	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	19.97	21.07	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.94	21.04	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	19.85	20.95	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	20.05	21.15	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	20.05	21.15	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	19.89	20.99	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	19.97	21.07	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	20.02	21.12	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	20.08	21.18	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20	21.1	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.07	21.17	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	19.99	21.09	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	19.96	21.06	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.06	21.16	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	20	21.1	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	20.04	21.14	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	20.07	21.17	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	20.03	21.13	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	20.07	21.17	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	19.92	21.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	19.94	21.04	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.01	21.11	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	19.89	20.99	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.01	21.11	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	19.92	21.02	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.89	20.99	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	19.88	20.98	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	19.98	21.08	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	19.95	21.05	30.00	PASS



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Band4	5MHz	QPSK	20175	25RB#0	19.93	21.03	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	20.07	21.17	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	19.97	21.07	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	19.92	21.02	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	19.98	21.08	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.07	21.17	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	20	21.1	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	19.85	20.95	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.92	21.02	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	19.98	21.08	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	20.08	21.18	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	20.05	21.15	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	19.93	21.03	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	20.06	21.16	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.04	21.14	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	20.03	21.13	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	19.95	21.05	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.11	21.21	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	19.95	21.05	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	19.95	21.05	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.95	21.05	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	20.09	21.19	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	20.1	21.2	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	20.01	21.11	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	20	21.1	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	19.95	21.05	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	19.89	20.99	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	19.92	21.02	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20	21.1	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	19.95	21.05	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.02	21.12	30.00	PASS



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Band4	10MHz	64QAM	20000	1RB#49	19.89	20.99	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.95	21.05	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	19.93	21.03	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	19.98	21.08	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	19.93	21.03	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.04	21.14	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	19.99	21.09	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	20.02	21.12	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	19.9	21	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.09	21.19	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.07	21.17	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.01	21.11	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	20	21.1	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.9	21	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	19.89	20.99	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	20.02	21.12	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	19.95	21.05	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	19.96	21.06	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	19.93	21.03	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	19.98	21.08	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	19.96	21.06	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	19.87	20.97	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.07	21.17	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	19.96	21.06	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	19.91	21.01	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.94	21.04	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	20.06	21.16	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	20.09	21.19	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	20.08	21.18	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	19.99	21.09	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	20.03	21.13	30.00	PASS



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Band4	15MHz	16QAM	20025	1RB#38	19.89	20.99	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	19.93	21.03	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	19.92	21.02	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.02	21.12	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	19.98	21.08	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	19.97	21.07	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20	21.1	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	20	21.1	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	20.04	21.14	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	19.97	21.07	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	20	21.1	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	19.94	21.04	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	20.07	21.17	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	19.91	21.01	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	19.94	21.04	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.08	21.18	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	19.99	21.09	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	19.95	21.05	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20	21.1	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	19.86	20.96	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	20	21.1	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	20.06	21.16	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	19.89	20.99	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	20.05	21.15	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	19.99	21.09	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	20.04	21.14	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	19.91	21.01	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.09	21.19	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.07	21.17	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	19.94	21.04	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.08	21.18	30.00	PASS



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Band4	20MHz	QPSK	20050	1RB#0	20.07	21.17	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	19.96	21.06	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	19.96	21.06	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	19.98	21.08	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	19.89	20.99	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	19.94	21.04	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	19.9	21	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.01	21.11	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.01	21.11	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.07	21.17	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	19.9	21	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.98	21.08	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	20.12	21.22	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	20.01	21.11	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	19.95	21.05	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	20.02	21.12	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	20.07	21.17	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	20	21.1	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	19.95	21.05	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.02	21.12	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	19.97	21.07	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.01	21.11	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	19.93	21.03	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.01	21.11	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	19.99	21.09	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	20.01	21.11	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	19.9	21	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	19.99	21.09	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	19.99	21.09	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	19.96	21.06	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	20.01	21.11	30.00	PASS



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Report No.: SEWM2311000471RG01

Rev.: 01

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Band4	20MHz	16QAM	20300	100RB#0	19.97	21.07	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	19.99	21.09	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	19.92	21.02	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	19.97	21.07	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.93	21.03	30.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.68	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.70	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.74	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.50	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.60	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.68	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.98	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	7.08	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	7.10	13	PASS



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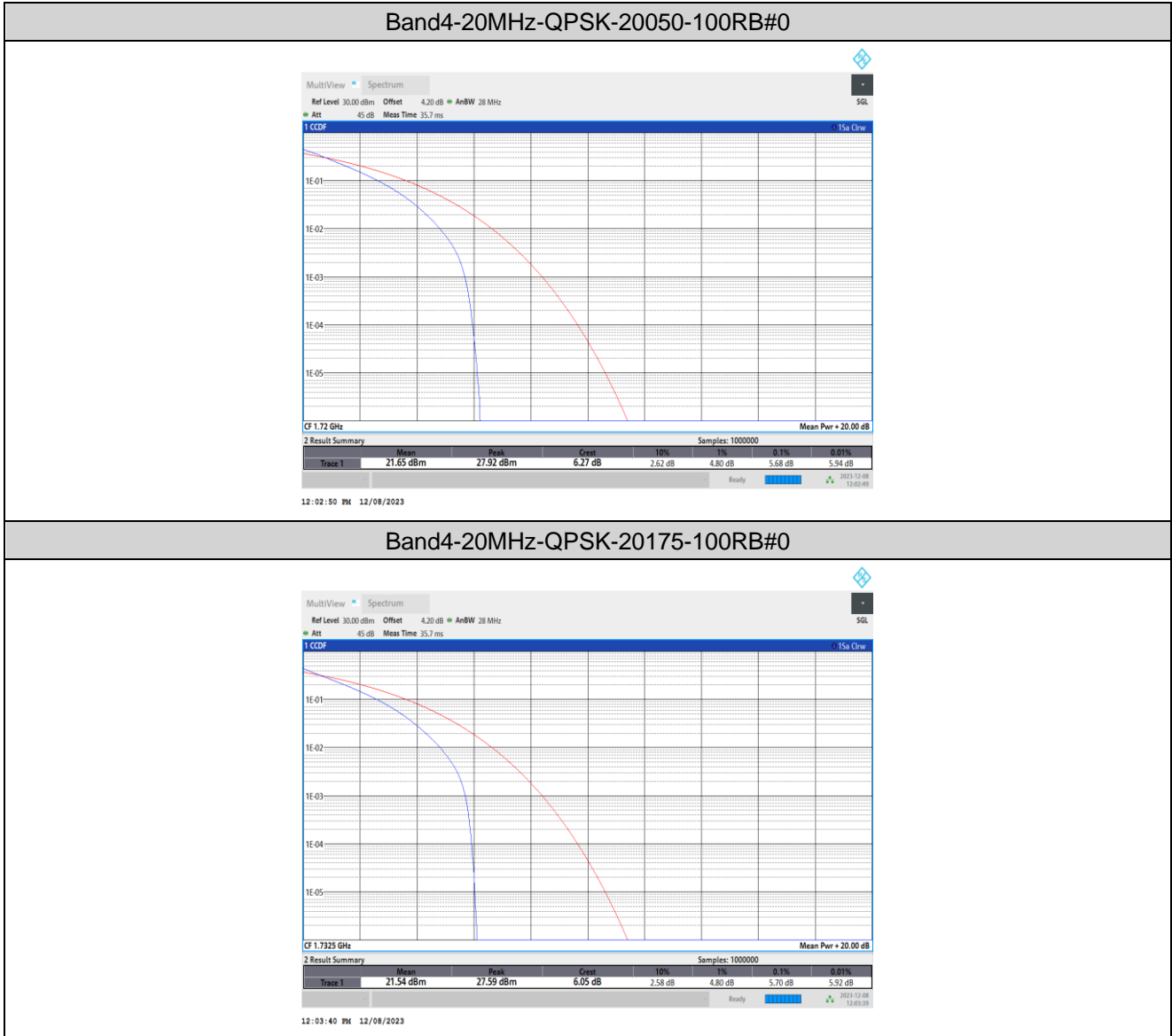
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Test Graphs

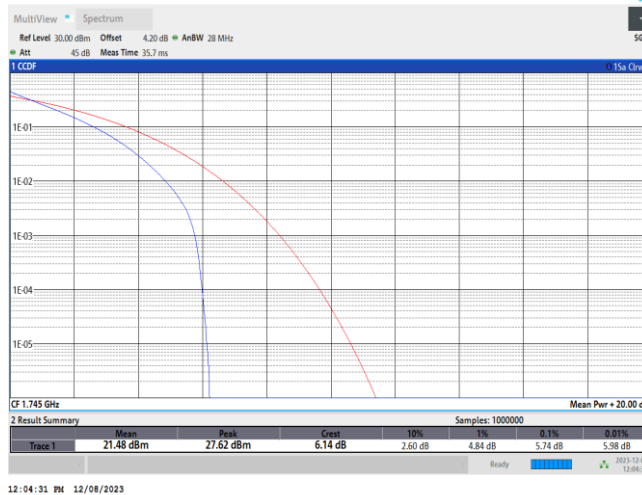


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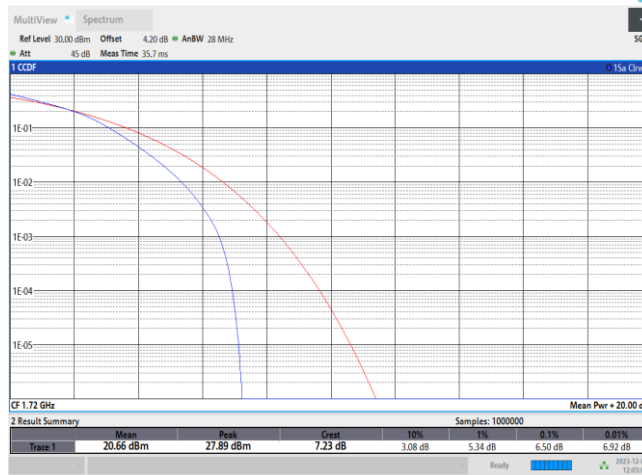
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Band4-20MHz-QPSK-20300-100RB#0



12:04:31 PM 12/08/2023

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



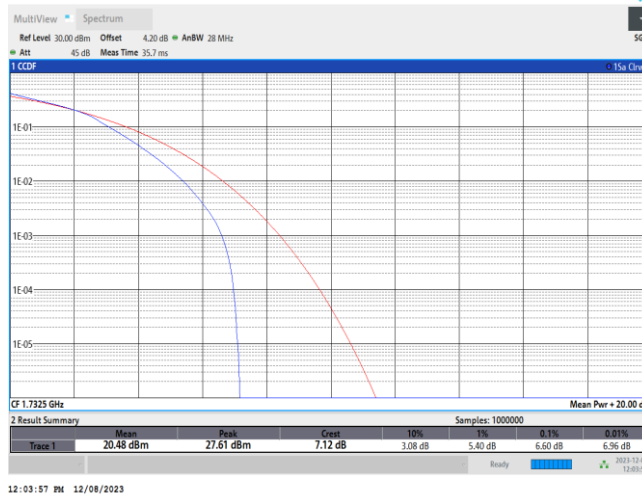
12:03:06 PM 12/08/2023



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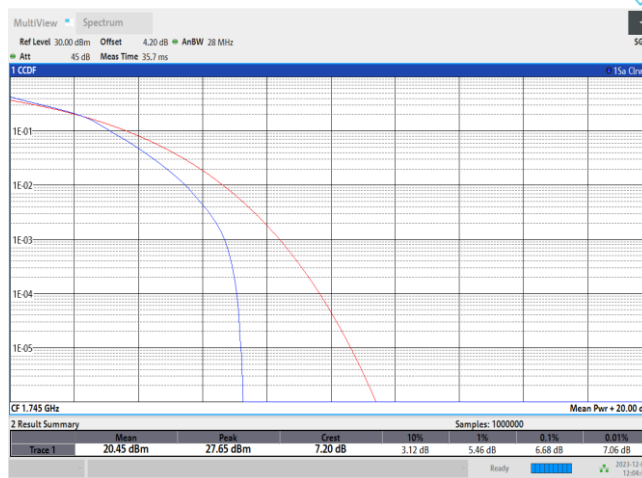
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Band4-20MHz-16QAM-20175-100RB#0



12:03:57 PM 12/08/2023

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



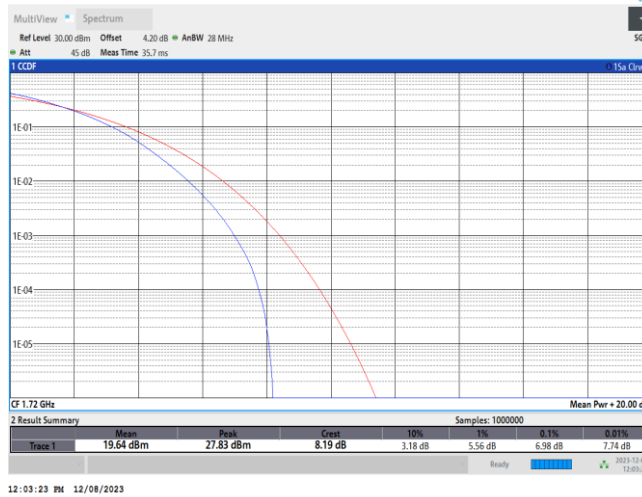
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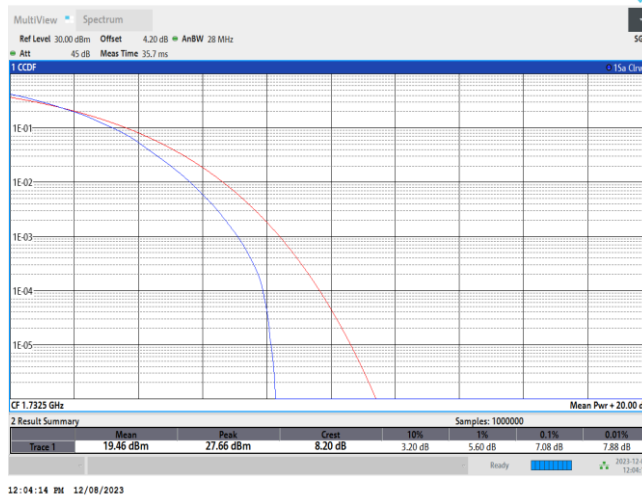
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Band4-20MHz-64QAM-20050-100RB#0



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



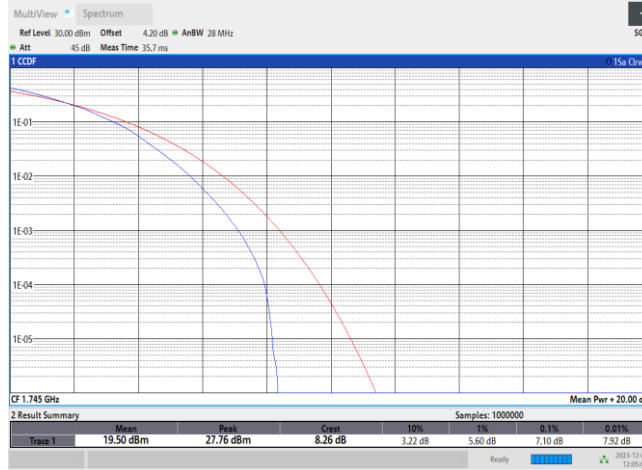
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Band4-20MHz-64QAM-20300-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	20175	6RB#0	1.103	1.38	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.108	1.38	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.105	1.42	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7	3.01	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.7	3.07	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.699	3.06	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.478	5.04	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.485	5.04	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.48	5.05	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.946	9.88	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.944	9.92	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.936	9.94	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.51	15.06	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.491	15.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.502	15.15	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.963	19.76	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.957	19.68	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.918	19.88	PASS



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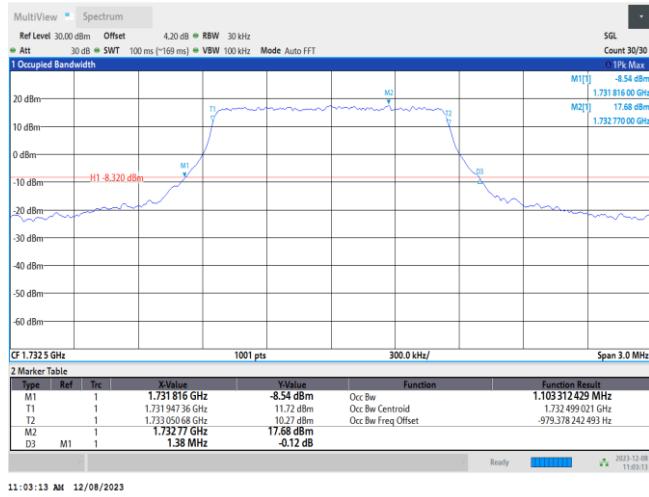
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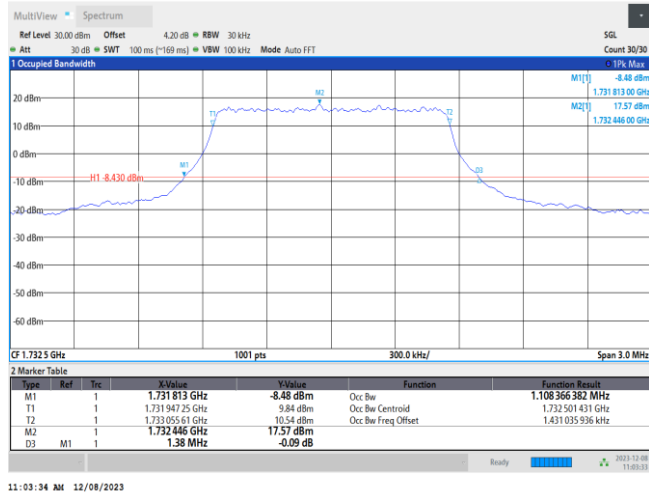
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Test Graphs

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



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



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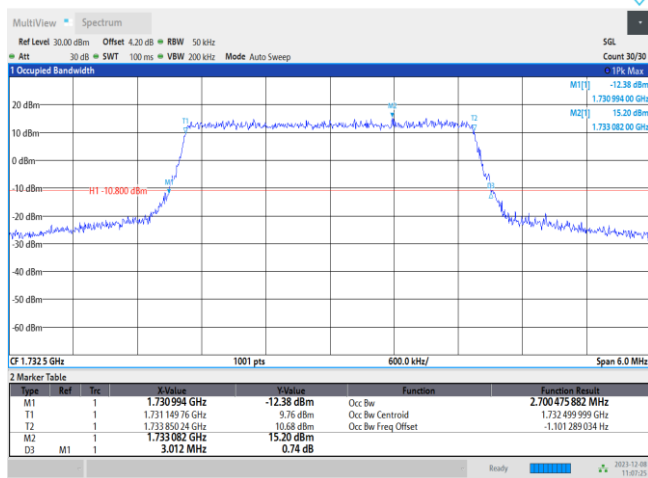
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Band4-1.4MHz-64QAM-20175-6RB#0



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



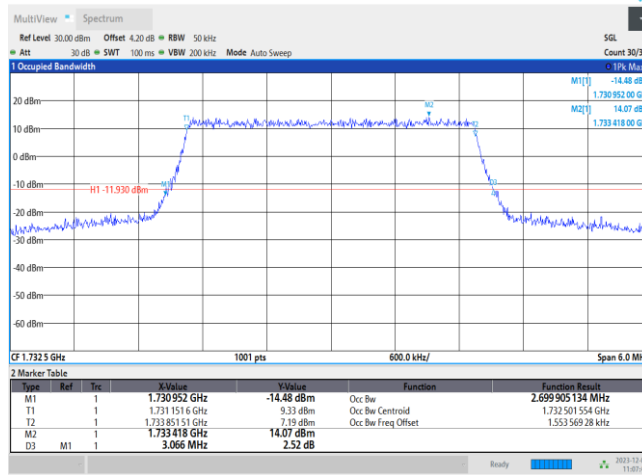
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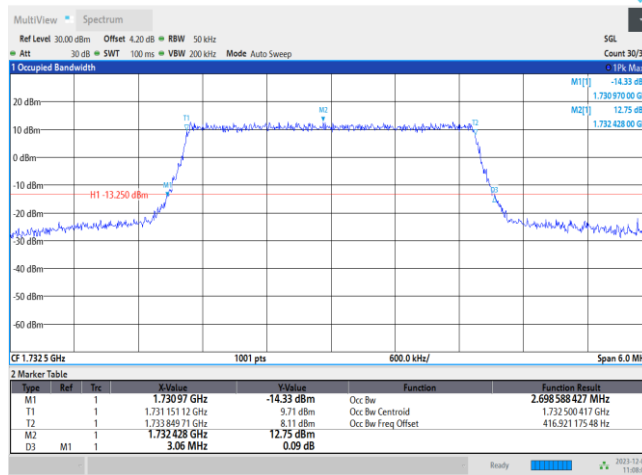
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Band4-3MHz-16QAM-20175-15RB#0



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



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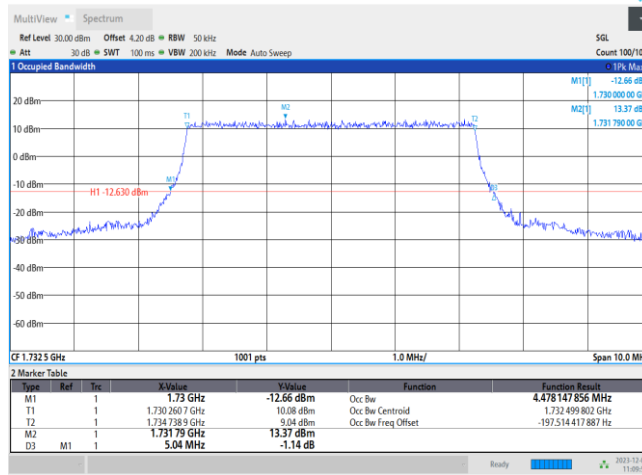


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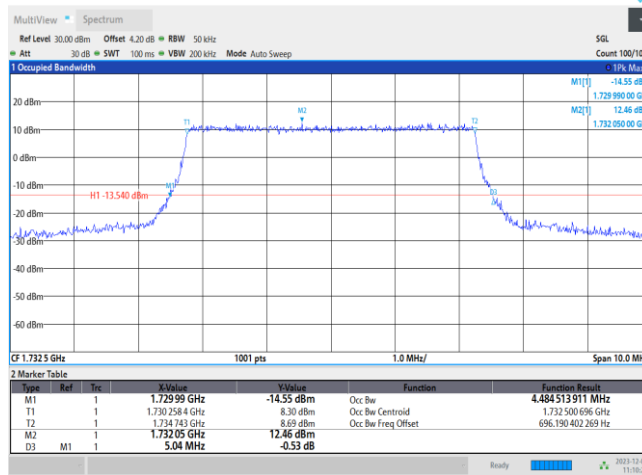
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Band4-5MHz-QPSK-20175-25RB#0



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



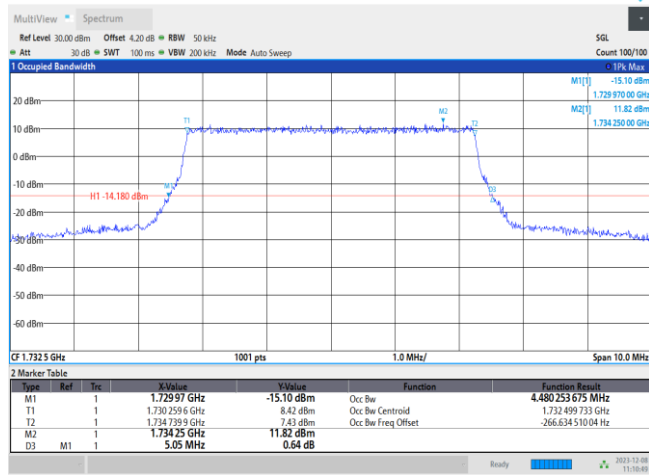
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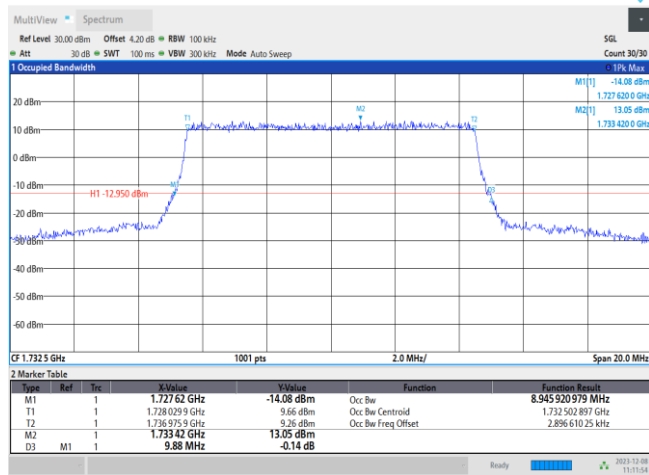
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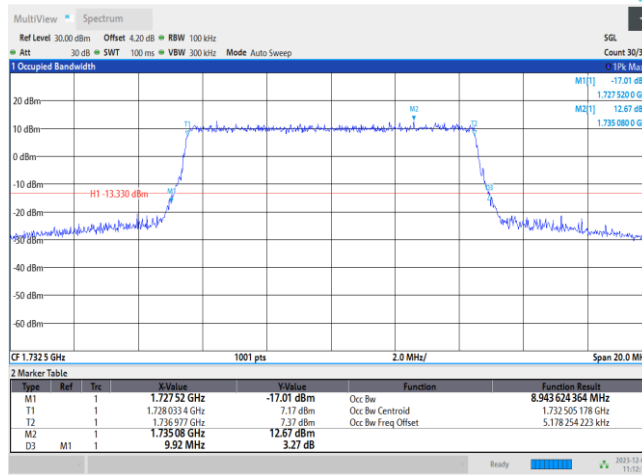
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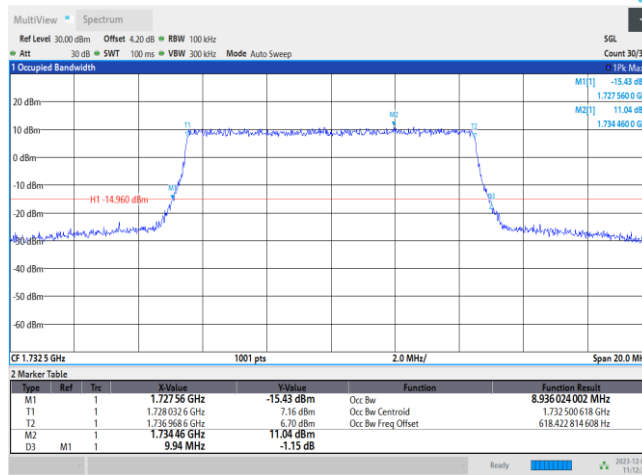
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Band4-10MHz-16QAM-20175-50RB#0



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



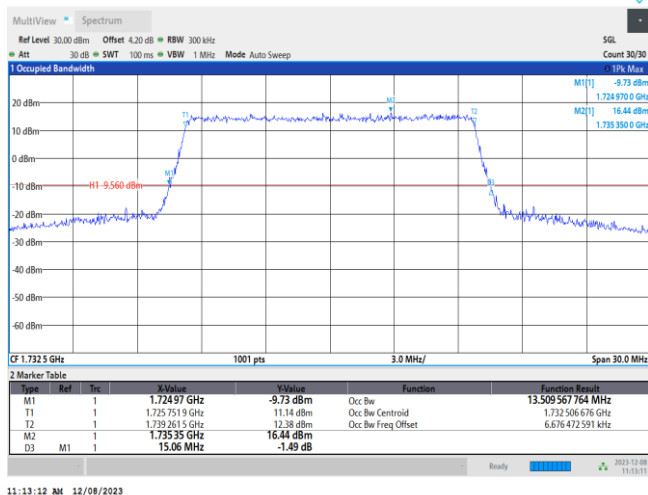
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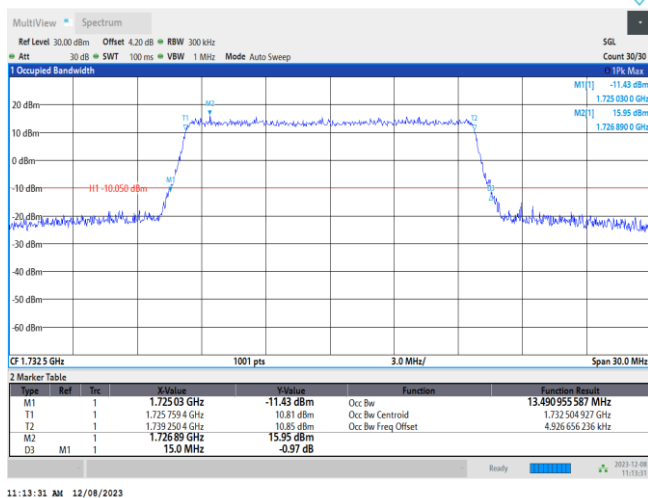
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Band4-15MHz-QPSK-20175-75RB#0



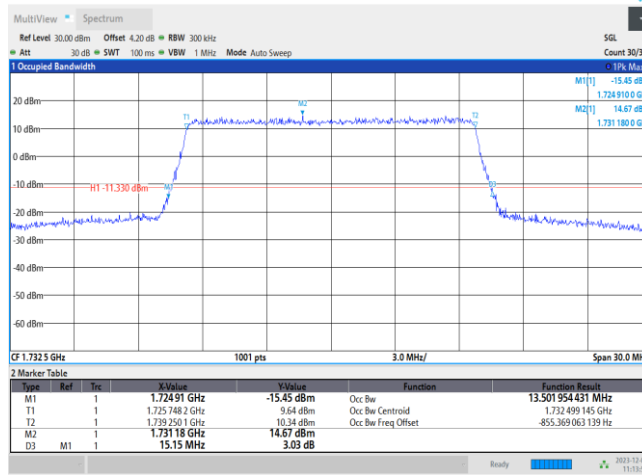
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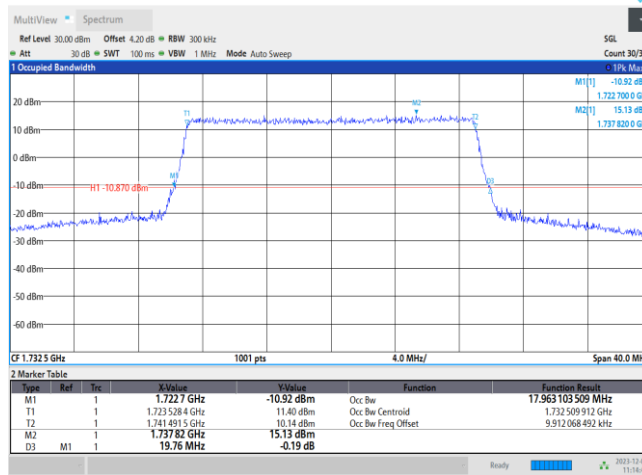
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Band4-15MHz-64QAM-20175-75RB#0



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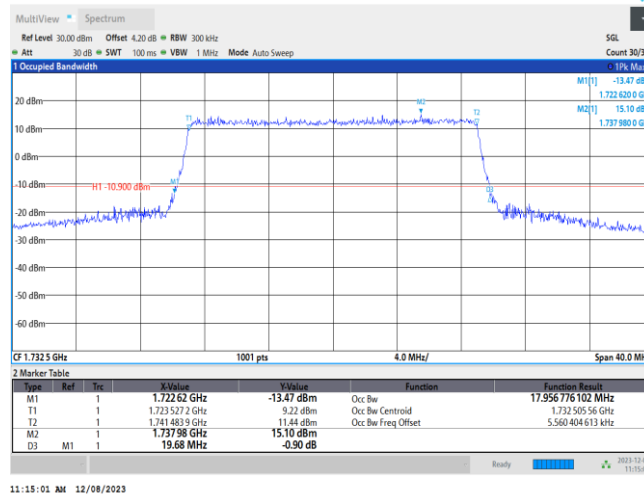
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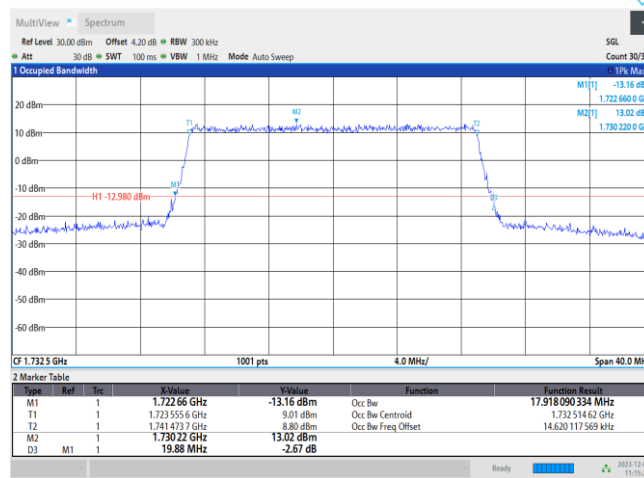
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Band4-20MHz-16QAM-20175-100RB#0



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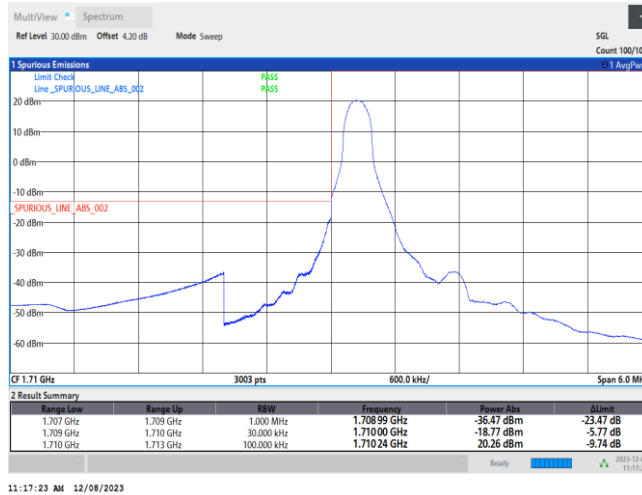
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Band Edge

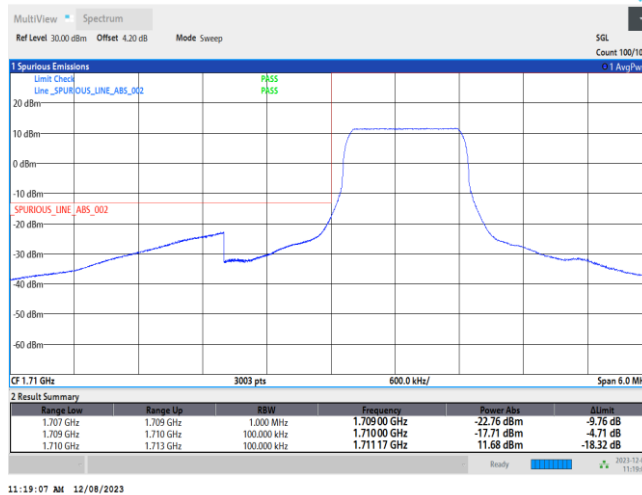
Test Graphs

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



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



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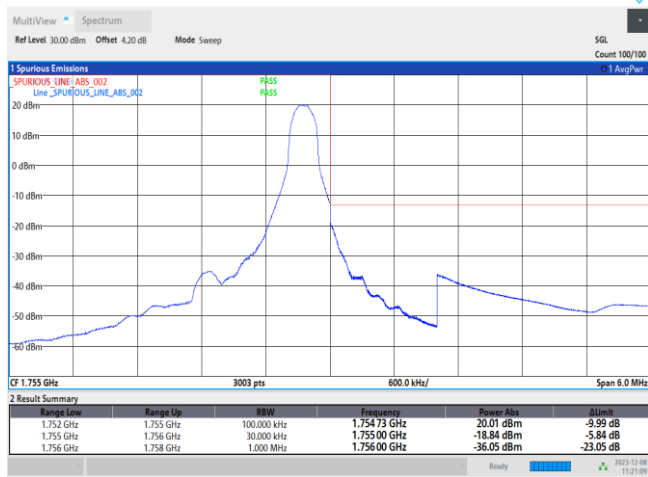


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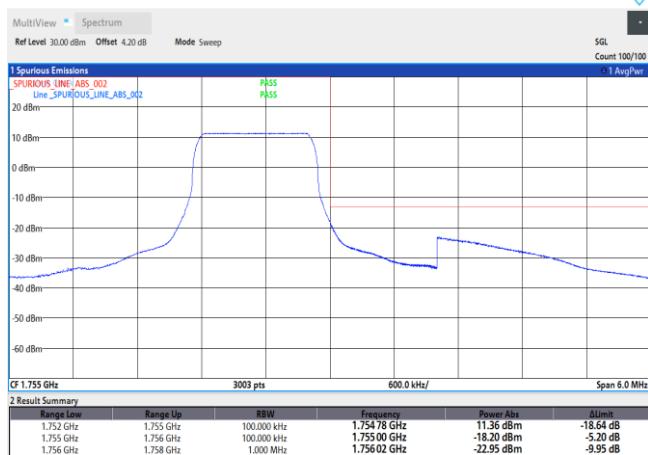
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Band4-1.4MHz-QPSK-20393-1RB#5



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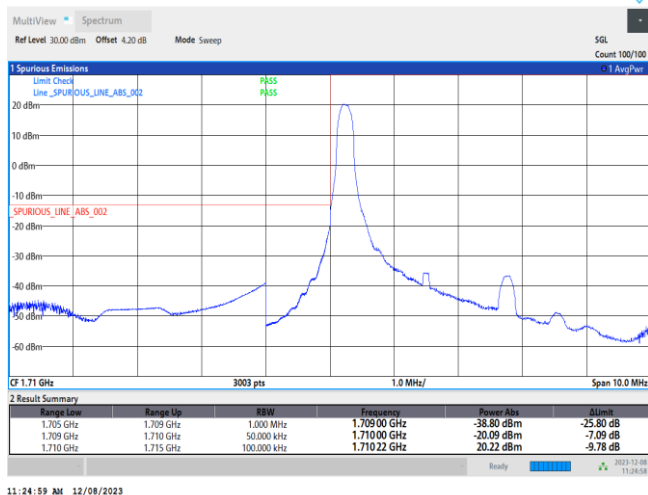
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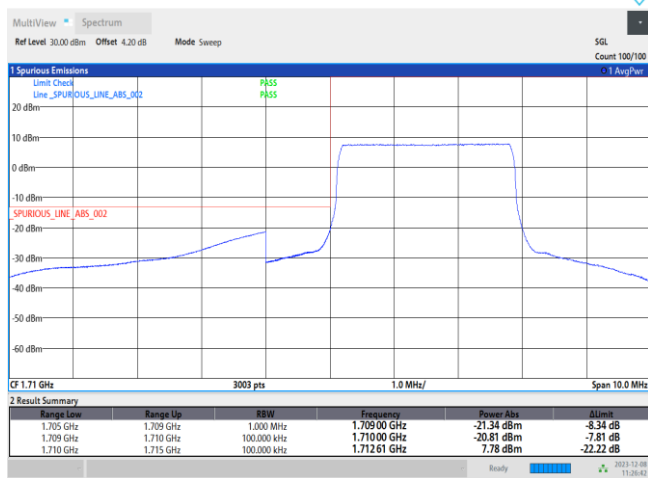
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Band4-3MHz-QPSK-19965-1RB#0



11:24:59 AM 12/08/2023

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



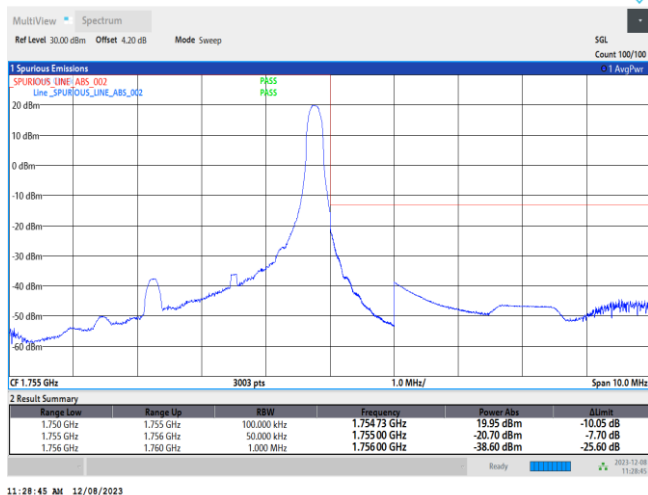
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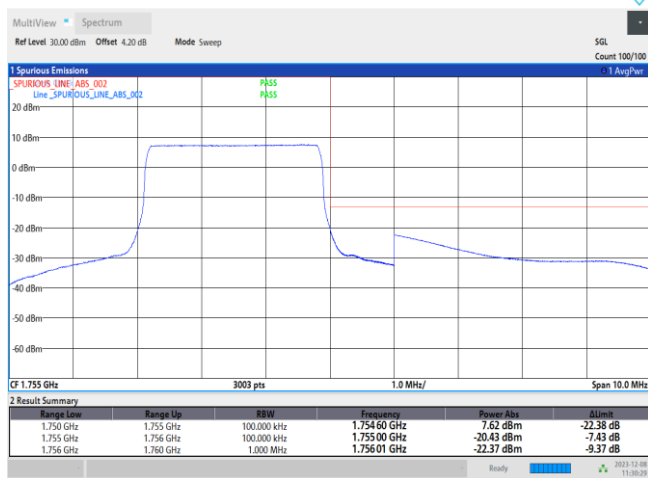
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Band4-3MHz-QPSK-20385-1RB#14



11:28:45 AM 12/08/2023

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



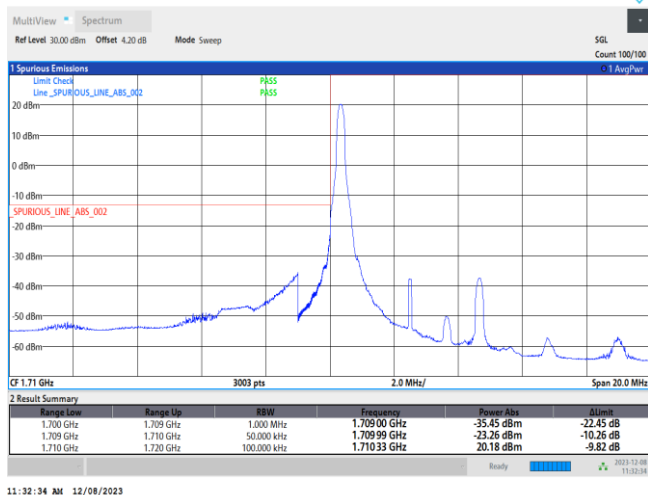
11:30:29 AM 12/08/2023



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



11:32:34 AM 12/08/2023

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



11:34:18 AM 12/08/2023

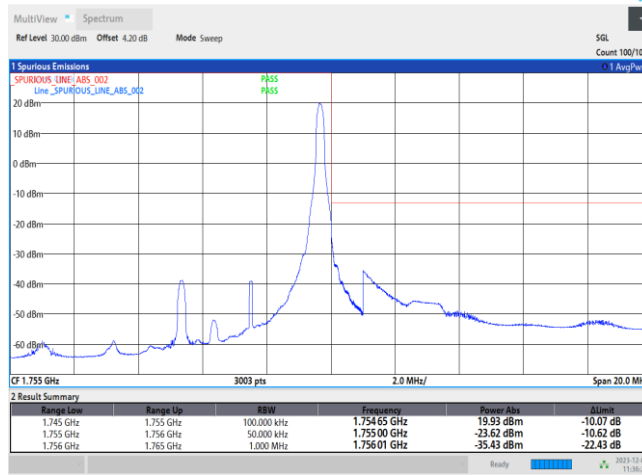


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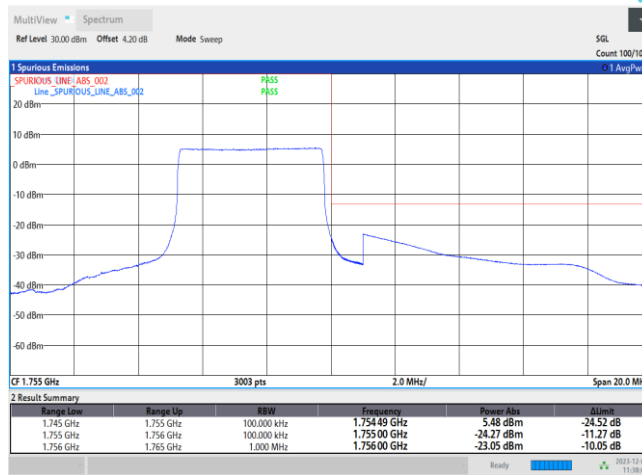
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Band4-5MHz-QPSK-20375-1RB#24



11:36:21 AM 12/08/2023

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



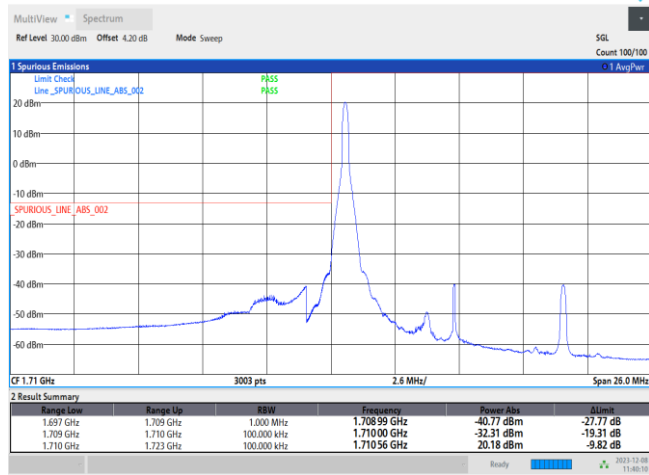
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Band4-10MHz-QPSK-20000-1RB#0



11:40:10 AM 12/08/2023

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



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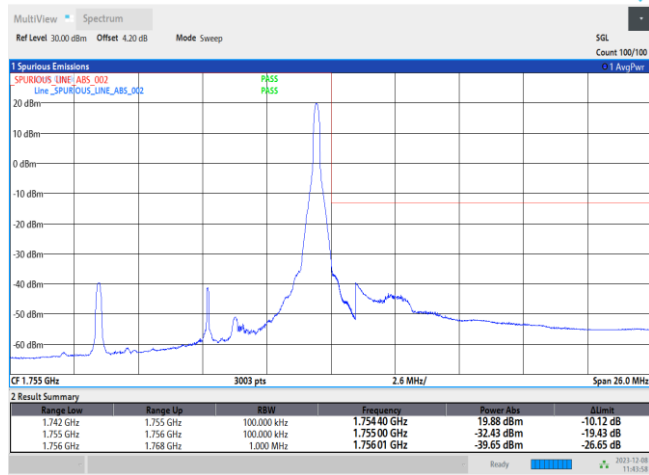
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Band4-10MHz-QPSK-20350-1RB#49



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



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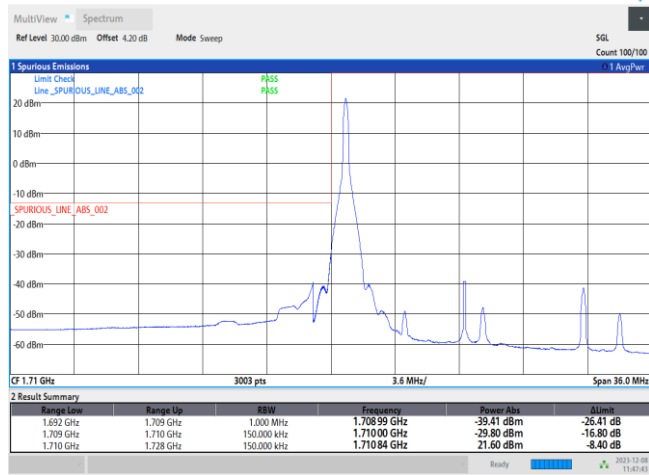
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Band4-15MHz-QPSK-20025-1RB#0



11:47:44 AM 12/08/2023

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



11:49:28 AM 12/08/2023



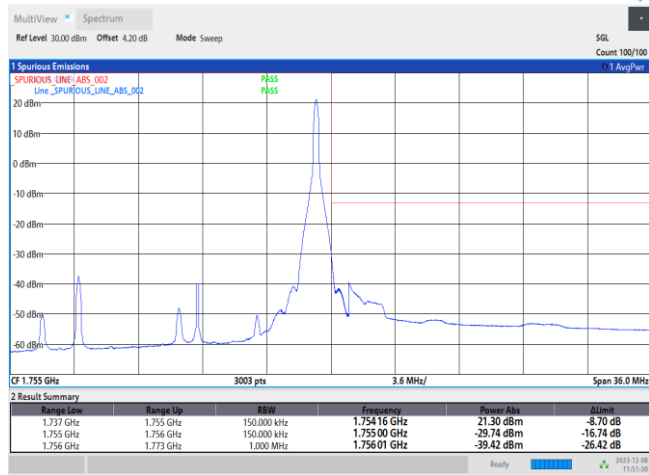
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Band4-15MHz-QPSK-20325-1RB#74



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



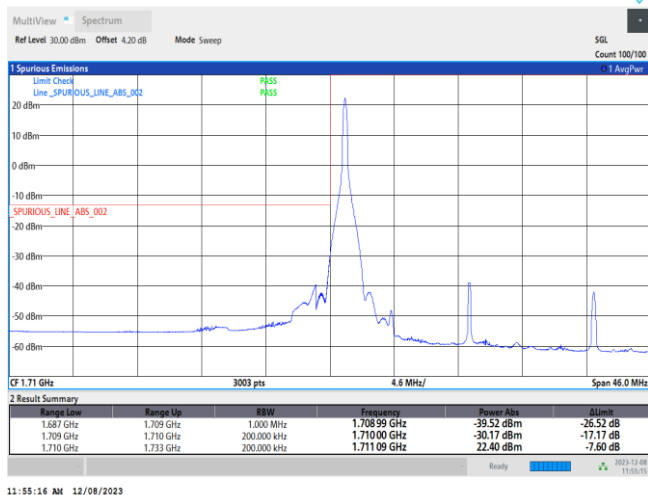
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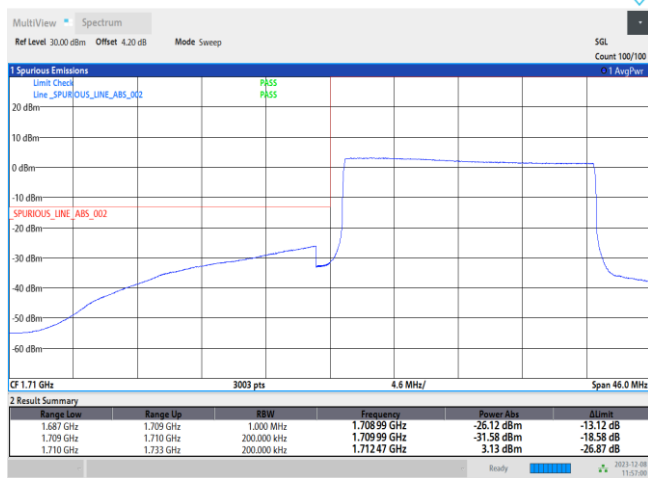
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Band4-20MHz-QPSK-20050-1RB#0



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



11:57:00 AM 12/08/2023

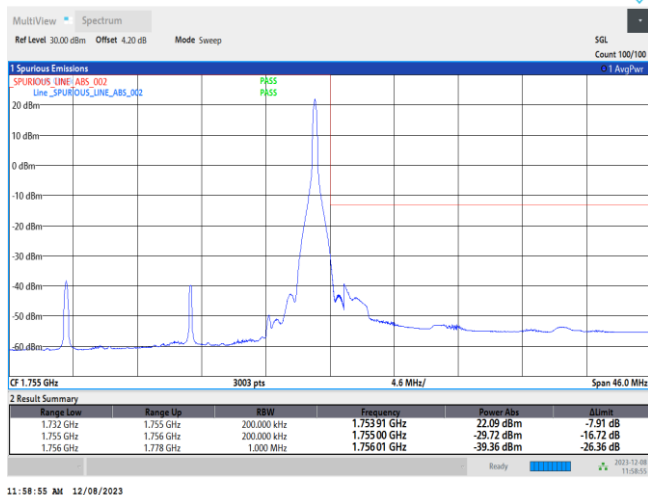


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Band4-20MHz-QPSK-20300-1RB#99



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



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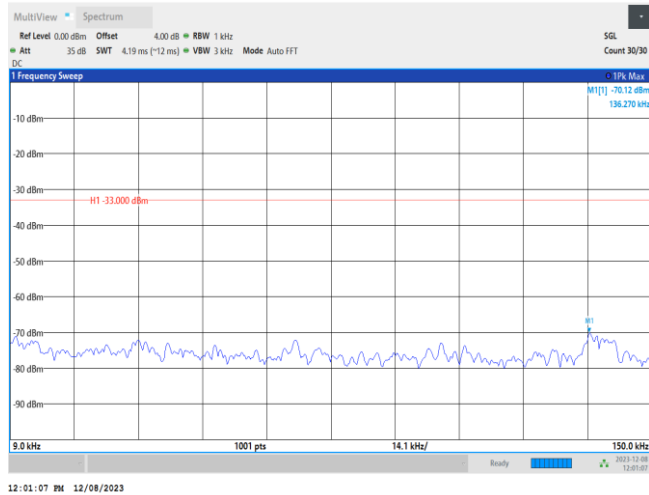
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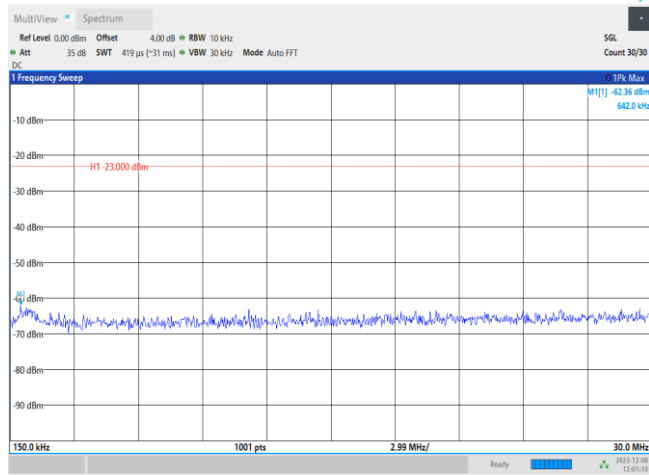
Test Graphs

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



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



12:01:11 PM 12/08/2023



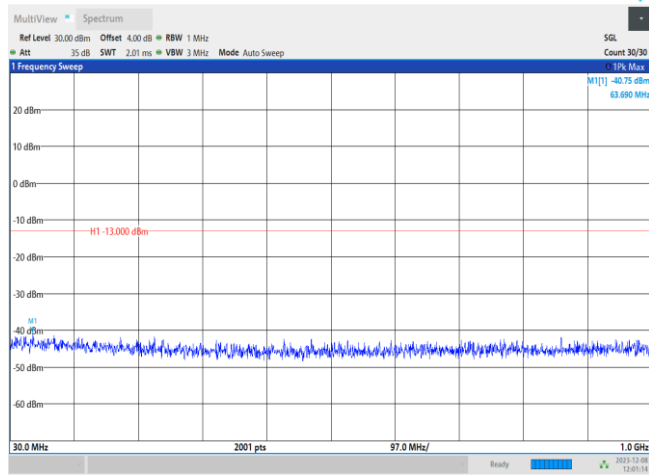
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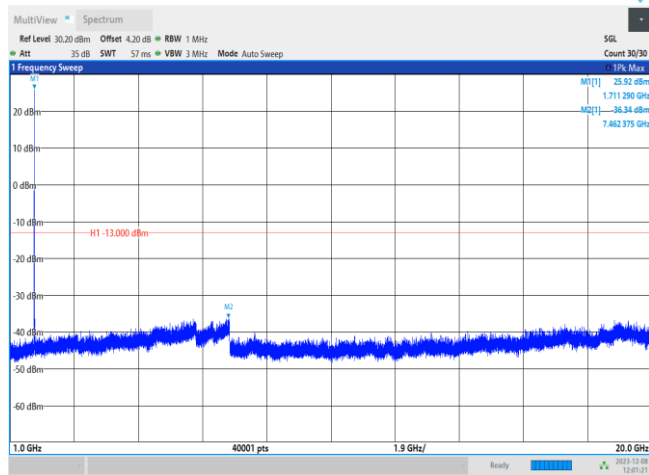
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



12:01:14 PM 12/08/2023

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



12:01:22 PM 12/08/2023



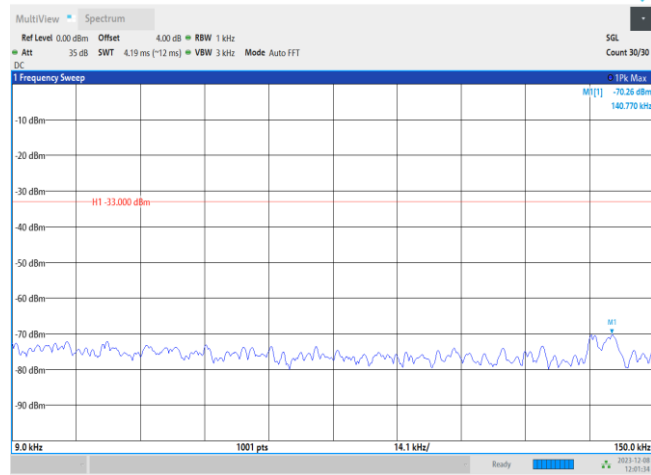
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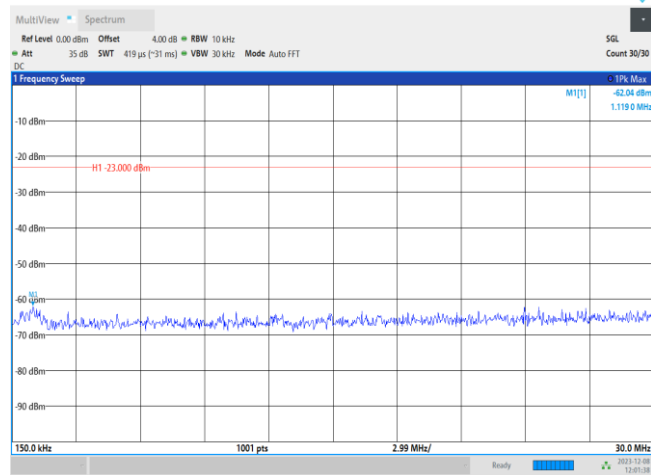
Member of the SGS Group (SGS SA)

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



12:01:35 PM 12/08/2023

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



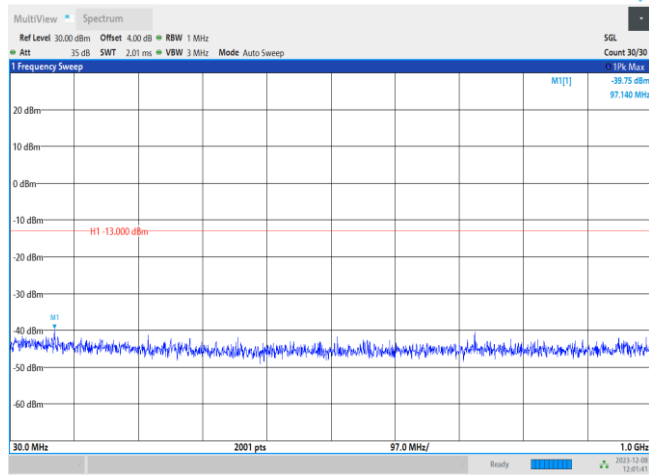
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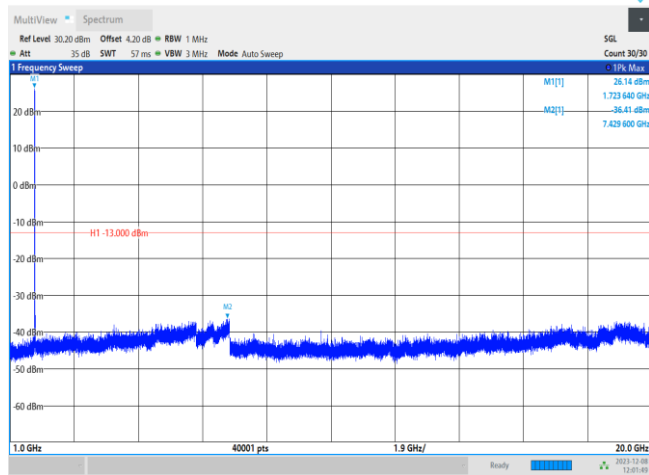
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



12:01:42 PM 12/08/2023

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



12:01:50 PM 12/08/2023

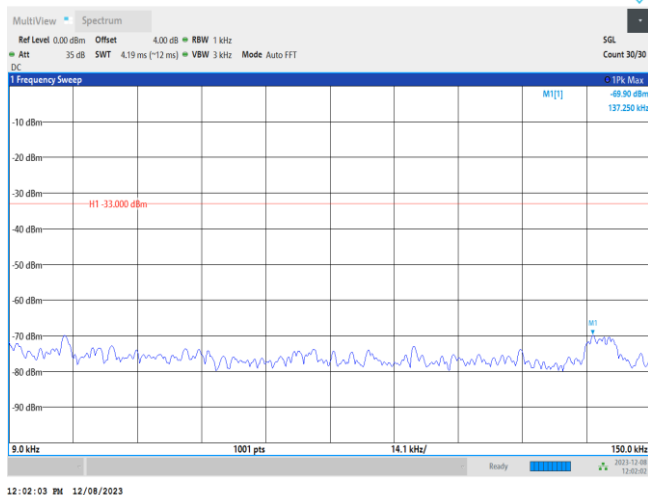


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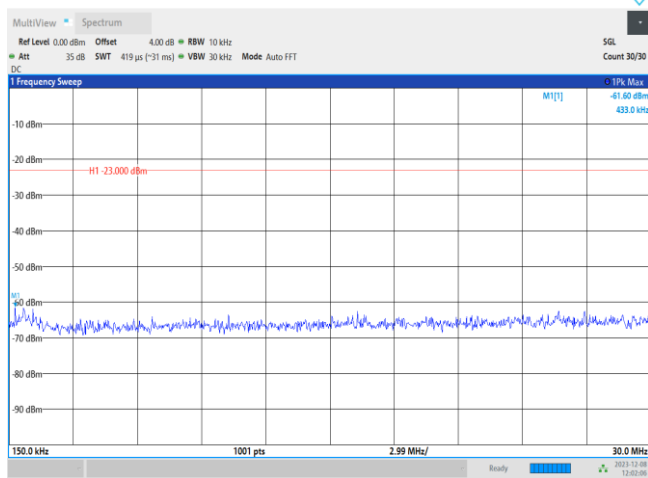
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



12:02:03 PM 12/08/2023

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



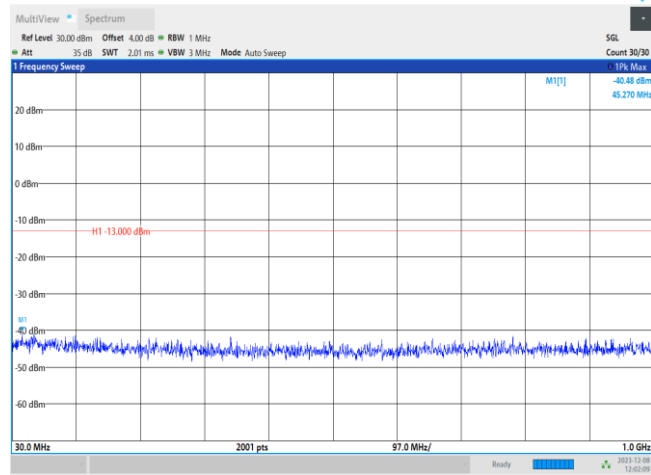
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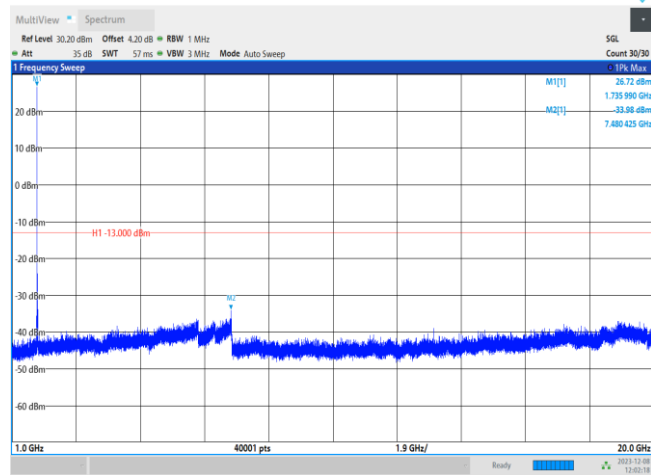
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



12:02:10 PM 12/08/2023

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



12:02:18 PM 12/08/2023



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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]	Polarity
1	3422.18	36.98	-43.26	29.58	-71.95	-13.00	58.95	Horizontal
2	5133.27	34.32	-41.12	33.17	-68.89	-13.00	55.89	Horizontal
3	6844.36	33.14	-38.40	35.94	-64.58	-13.00	51.58	Horizontal
4	8555.45	31.29	-35.34	37.38	-61.94	-13.00	48.94	Horizontal
5	10266.54	29.10	-32.16	38.03	-60.29	-13.00	47.29	Horizontal
6	11977.63	28.32	-29.65	38.40	-58.19	-13.00	45.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	36.89	-43.26	29.58	-72.04	-13.00	59.04	Vertical
2	5133.27	36.64	-41.12	33.17	-66.57	-13.00	53.57	Vertical
3	6844.36	33.61	-38.40	35.94	-64.11	-13.00	51.11	Vertical
4	8555.45	30.85	-35.34	37.38	-62.38	-13.00	49.38	Vertical
5	10266.54	29.49	-32.16	38.03	-59.90	-13.00	46.90	Vertical
6	11977.63	27.76	-29.65	38.40	-58.75	-13.00	45.75	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]	Polarity
1	3447.18	34.92	-43.20	29.59	-73.95	-13.00	60.95	Horizontal
2	5170.77	33.89	-40.95	33.17	-69.15	-13.00	56.15	Horizontal
3	6894.36	33.17	-38.34	35.96	-64.47	-13.00	51.47	Horizontal
4	8617.95	30.09	-35.21	37.41	-62.97	-13.00	49.97	Horizontal
5	10341.54	29.05	-31.90	38.07	-60.04	-13.00	47.04	Horizontal
6	12065.13	27.27	-29.38	38.48	-58.89	-13.00	45.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	35.34	-43.20	29.59	-73.53	-13.00	60.53	Vertical
2	5170.77	34.91	-40.95	33.17	-68.13	-13.00	55.13	Vertical
3	6894.36	33.11	-38.34	35.96	-64.53	-13.00	51.53	Vertical
4	8617.95	30.53	-35.21	37.41	-62.53	-13.00	49.53	Vertical
5	10341.54	28.82	-31.90	38.07	-60.27	-13.00	47.27	Vertical
6	12065.13	28.69	-29.38	38.48	-57.47	-13.00	44.47	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]	Polarity
1	3472.18	36.50	-43.14	29.59	-72.31	-13.00	59.31	Horizontal
2	5208.27	35.17	-40.82	33.16	-67.75	-13.00	54.75	Horizontal
3	6944.36	33.02	-38.35	35.98	-64.61	-13.00	51.61	Horizontal
4	8680.45	30.62	-35.38	37.44	-62.58	-13.00	49.58	Horizontal
5	10416.54	28.29	-31.40	38.11	-60.26	-13.00	47.26	Horizontal
6	12152.63	28.62	-29.50	38.58	-57.56	-13.00	44.56	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	37.34	-43.14	29.59	-71.47	-13.00	58.47	Vertical
2	5208.27	33.33	-40.82	33.16	-69.59	-13.00	56.59	Vertical
3	6944.36	32.88	-38.35	35.98	-64.75	-13.00	51.75	Vertical
4	8680.45	30.12	-35.38	37.44	-63.08	-13.00	50.08	Vertical
5	10416.54	28.73	-31.40	38.11	-59.82	-13.00	46.82	Vertical
6	12152.63	28.72	-29.50	38.58	-57.46	-13.00	44.46	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	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	0.20	0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.00	0.000000	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-1.40	-0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-0.10	-0.000058	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.10	-0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	0.20	0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.60	-0.000924	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.80	-0.001039	PASS

---End of Attachment---



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