



Report No.: SEWM2308000314RG01

Rev.: 01

Page: 1 of 53

Appendix B.4

LTE Band 4



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 2 of 53

Effective (Isotropic) Radiated Power Output Data

Test Result

ANT2

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.62	23.52	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.65	23.55	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.62	23.52	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.84	22.74	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.76	23.66	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.62	23.52	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.64	23.54	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.82	22.72	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.77	23.67	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.49	23.39	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.51	23.41	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.71	22.61	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.93	22.83	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.01	22.91	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.95	22.85	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.85	21.75	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.97	22.87	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.95	22.85	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.97	22.87	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.86	21.76	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.86	22.76	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.89	22.79	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.84	22.74	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.74	21.64	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.98	21.88	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	22.05	21.95	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.97	21.87	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 3 of 53

Band4	1.4MHz	64QAM	19957	6RB#0	20.88	20.78	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.01	21.91	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.08	21.98	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.98	21.88	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.8	20.7	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.91	21.81	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.94	21.84	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.82	21.72	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.75	20.65	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#0	18.94	18.84	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#2	18.97	18.87	30.00	PASS
Band4	1.4MHz	256QAM	19957	1RB#5	18.92	18.82	30.00	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	18.8	18.7	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#0	19	18.9	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#2	18.93	18.83	30.00	PASS
Band4	1.4MHz	256QAM	20175	1RB#5	19.01	18.91	30.00	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	18.76	18.66	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#0	18.82	18.72	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#2	18.85	18.75	30.00	PASS
Band4	1.4MHz	256QAM	20393	1RB#5	18.78	18.68	30.00	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	18.67	18.57	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.63	23.53	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.67	23.57	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.68	23.58	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.88	22.78	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.76	23.66	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.65	23.55	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.65	23.55	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.83	22.73	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.11	24.01	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.44	23.34	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.46	23.36	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 4 of 53

Band4	3MHz	QPSK	20385	15RB#0	22.78	22.68	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.99	22.89	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.97	22.87	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.99	22.89	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.84	21.74	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.93	22.83	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	23	22.9	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	23	22.9	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.83	21.73	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.92	22.82	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.9	22.8	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.85	22.75	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.75	21.65	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.92	21.82	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.04	21.94	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	22	21.9	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.92	20.82	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.99	21.89	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	22.05	21.95	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.02	21.92	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.84	20.74	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	22	21.9	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.96	21.86	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.92	21.82	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.78	20.68	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#0	18.91	18.81	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#8	18.98	18.88	30.00	PASS
Band4	3MHz	256QAM	19965	1RB#14	18.97	18.87	30.00	PASS
Band4	3MHz	256QAM	19965	15RB#0	18.87	18.77	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#0	18.96	18.86	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#8	18.92	18.82	30.00	PASS
Band4	3MHz	256QAM	20175	1RB#14	18.92	18.82	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 5 of 53

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Band4	3MHz	256QAM	20385	1RB#0	18.76	18.66	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#8	18.88	18.78	30.00	PASS
Band4	3MHz	256QAM	20385	1RB#14	18.83	18.73	30.00	PASS
Band4	3MHz	256QAM	20385	15RB#0	18.74	18.64	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.66	23.56	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.73	23.63	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.65	23.55	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.9	22.8	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.68	23.58	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.71	23.61	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.69	23.59	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.87	22.77	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.27	23.17	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.51	23.41	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.55	23.45	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.79	22.69	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.01	22.91	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.02	22.92	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.93	22.83	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.92	21.82	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.96	22.86	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.95	22.85	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.97	22.87	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.88	21.78	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.87	22.77	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.86	22.76	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.9	22.8	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.84	21.74	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.06	21.96	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	22.03	21.93	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	22.04	21.94	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 6 of 53

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Band4	5MHz	64QAM	20175	1RB#0	21.98	21.88	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.98	21.88	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	22.1	22	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.83	20.73	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.98	21.88	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.88	21.78	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.9	21.8	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.83	20.73	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#0	18.94	18.84	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#12	19.04	18.94	30.00	PASS
Band4	5MHz	256QAM	19975	1RB#24	18.95	18.85	30.00	PASS
Band4	5MHz	256QAM	19975	25RB#0	18.89	18.79	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#0	18.87	18.77	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#12	18.93	18.83	30.00	PASS
Band4	5MHz	256QAM	20175	1RB#24	18.98	18.88	30.00	PASS
Band4	5MHz	256QAM	20175	25RB#0	18.83	18.73	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#0	18.84	18.74	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#12	18.82	18.72	30.00	PASS
Band4	5MHz	256QAM	20375	1RB#24	18.83	18.73	30.00	PASS
Band4	5MHz	256QAM	20375	25RB#0	18.77	18.67	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.59	23.49	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.67	23.57	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.65	23.55	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.89	22.79	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.41	23.31	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.62	23.52	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.65	23.55	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.82	22.72	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.21	23.11	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.5	23.4	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.5	23.4	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 7 of 53

Band4	10MHz	QPSK	20350	50RB#0	22.79	22.69	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.96	22.86	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.98	22.88	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	23	22.9	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.84	21.74	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.96	22.86	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.94	22.84	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.95	22.85	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.84	21.74	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.89	22.79	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.8	22.7	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.9	22.8	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.78	21.68	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.01	21.91	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.04	21.94	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.06	21.96	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.87	20.77	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.93	21.83	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.96	21.86	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.96	21.86	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.84	20.74	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.92	21.82	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.89	21.79	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.93	21.83	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.78	20.68	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#0	18.95	18.85	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#24	18.94	18.84	30.00	PASS
Band4	10MHz	256QAM	20000	1RB#49	18.96	18.86	30.00	PASS
Band4	10MHz	256QAM	20000	50RB#0	18.81	18.71	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#0	18.95	18.85	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#24	18.96	18.86	30.00	PASS
Band4	10MHz	256QAM	20175	1RB#49	18.96	18.86	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 8 of 53

Band4	10MHz	256QAM	20175	50RB#0	18.82	18.72	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#0	18.83	18.73	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#24	18.81	18.71	30.00	PASS
Band4	10MHz	256QAM	20350	1RB#49	18.89	18.79	30.00	PASS
Band4	10MHz	256QAM	20350	50RB#0	18.71	18.61	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.47	23.37	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.57	23.47	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.57	23.47	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.82	22.72	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.43	23.33	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.63	23.53	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.57	23.47	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.83	22.73	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.46	23.36	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.5	23.4	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.52	23.42	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.78	22.68	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.98	22.88	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.99	22.89	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.99	22.89	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.81	21.71	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.98	22.88	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.02	22.92	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.99	22.89	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.83	21.73	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.94	22.84	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.89	22.79	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.92	22.82	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.78	21.68	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	22	21.9	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.98	21.88	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	22.13	22.03	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 9 of 53

Band4	15MHz	64QAM	20025	75RB#0	20.82	20.72	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	22.01	21.91	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.05	21.95	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	22.07	21.97	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.82	20.72	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.9	21.8	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.94	21.84	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.94	21.84	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.79	20.69	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#0	18.78	18.68	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#38	19.01	18.91	30.00	PASS
Band4	15MHz	256QAM	20025	1RB#74	18.95	18.85	30.00	PASS
Band4	15MHz	256QAM	20025	75RB#0	18.78	18.68	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#0	18.93	18.83	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#38	18.97	18.87	30.00	PASS
Band4	15MHz	256QAM	20175	1RB#74	19	18.9	30.00	PASS
Band4	15MHz	256QAM	20175	75RB#0	18.8	18.7	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#0	18.77	18.67	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#38	18.82	18.72	30.00	PASS
Band4	15MHz	256QAM	20325	1RB#74	18.89	18.79	30.00	PASS
Band4	15MHz	256QAM	20325	75RB#0	18.8	18.7	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.53	23.43	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.6	23.5	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.68	23.58	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.81	22.71	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.79	23.69	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.59	23.49	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.57	23.47	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.85	22.75	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.69	23.59	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.55	23.45	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.55	23.45	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 10 of 53

Band4	20MHz	QPSK	20300	100RB#0	22.81	22.71	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.93	22.83	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.92	22.82	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.05	22.95	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.82	21.72	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.95	22.85	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	23	22.9	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	23	22.9	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.87	21.77	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.91	22.81	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.93	22.83	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.96	22.86	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.8	21.7	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.96	21.86	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.96	21.86	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.02	21.92	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.79	20.69	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.96	21.86	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.06	21.96	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.1	22	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.85	20.75	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.85	21.75	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.99	21.89	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.95	21.85	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.77	20.67	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#0	18.86	18.76	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#49	18.91	18.81	30.00	PASS
Band4	20MHz	256QAM	20050	1RB#99	18.98	18.88	30.00	PASS
Band4	20MHz	256QAM	20050	100RB#0	18.79	18.69	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#0	18.83	18.73	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#49	18.93	18.83	30.00	PASS
Band4	20MHz	256QAM	20175	1RB#99	18.96	18.86	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 11 of 53

Band4	20MHz	256QAM	20175	100RB#0	18.83	18.73	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#0	18.83	18.73	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#49	18.89	18.79	30.00	PASS
Band4	20MHz	256QAM	20300	1RB#99	18.88	18.78	30.00	PASS
Band4	20MHz	256QAM	20300	100RB#0	18.77	18.67	30.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 12 of 53

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.88	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.36	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.40	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.66	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.80	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.84	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.18	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.22	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.32	13	PASS
Band4	20MHz	256QAM	20050	100RB#0	6.54	13	PASS
Band4	20MHz	256QAM	20175	100RB#0	6.50	13	PASS
Band4	20MHz	256QAM	20300	100RB#0	6.46	13	PASS



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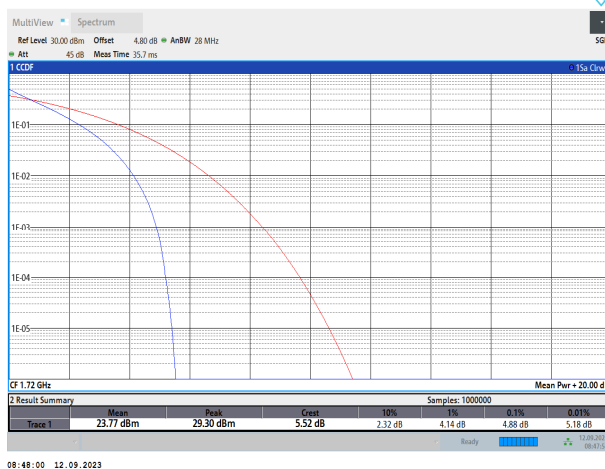
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Rev.: 01

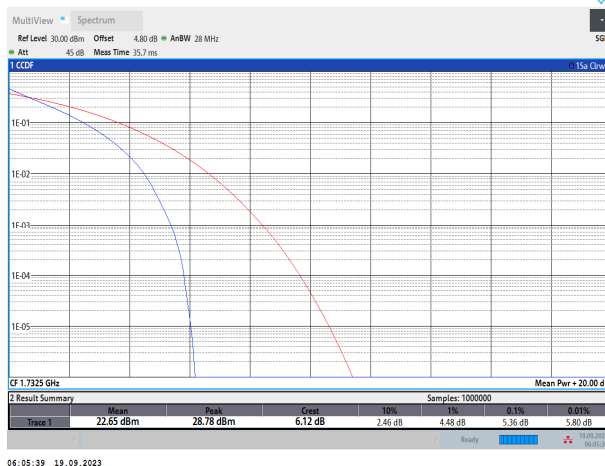
Page: 13 of 53

Test Graphs

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



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



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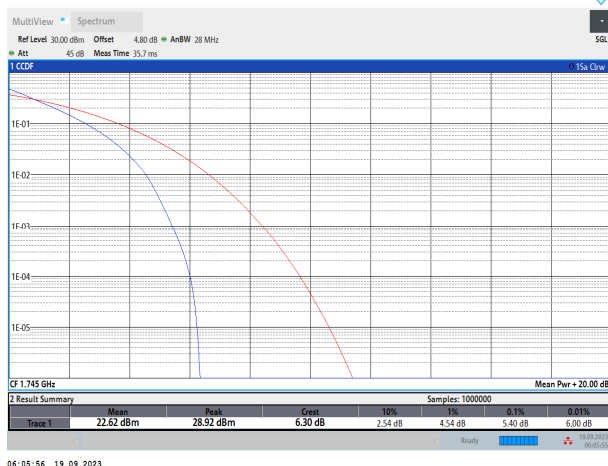
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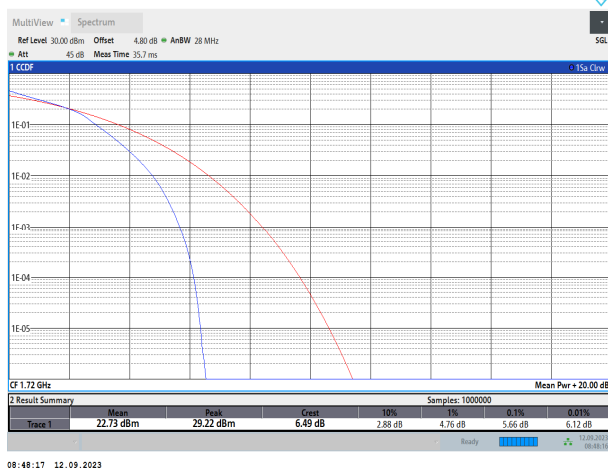
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Page: 14 of 53

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



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



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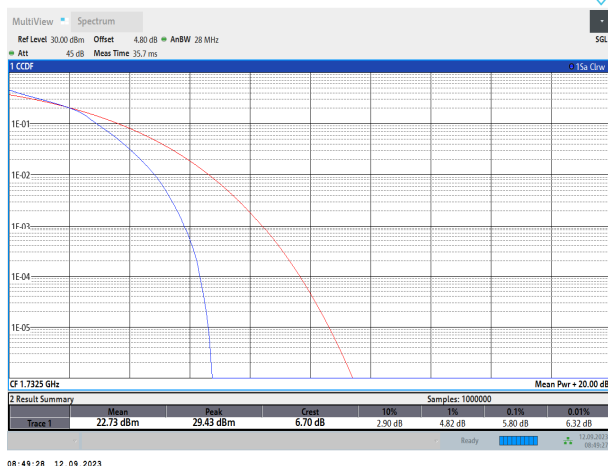
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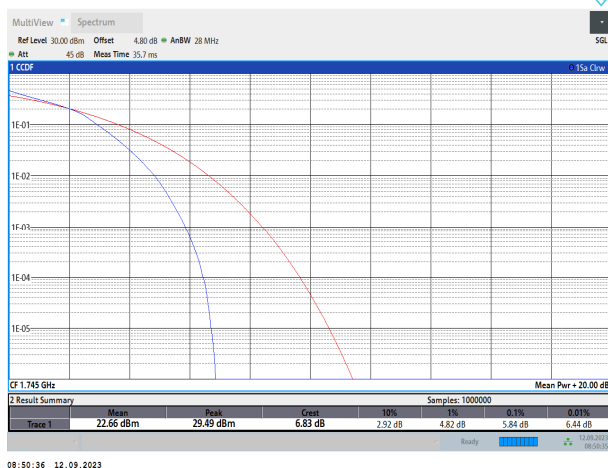
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Band4-20MHz-16QAM-20175-100RB#0



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



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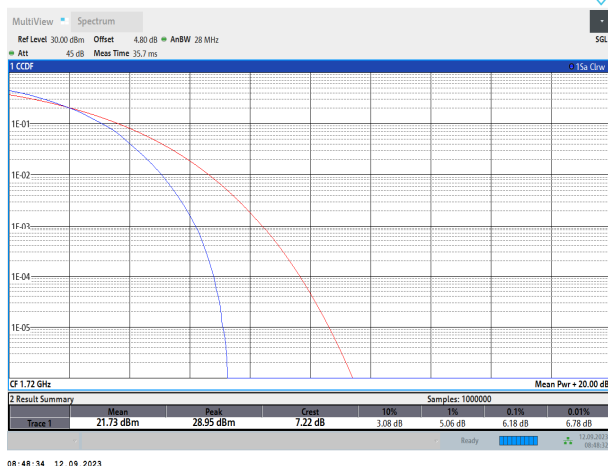
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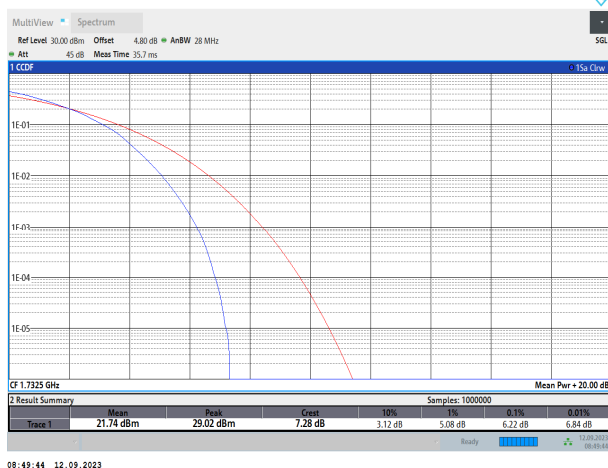
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Band4-20MHz-64QAM-20050-100RB#0



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



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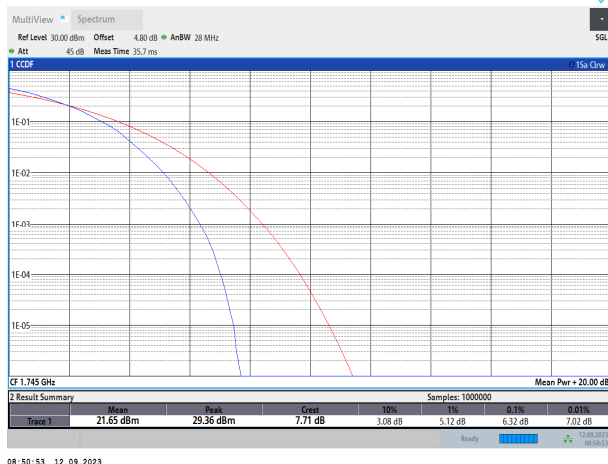
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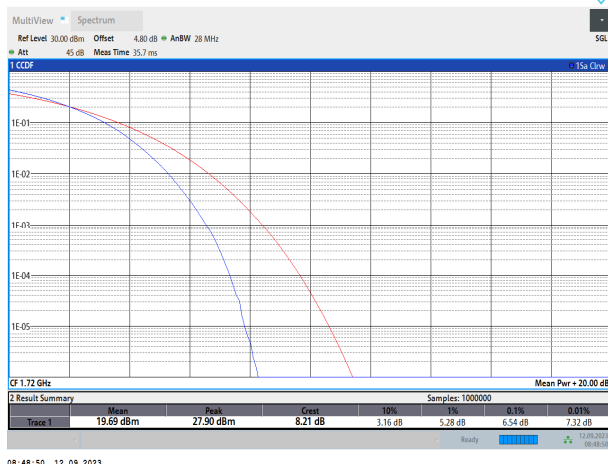
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Band4-20MHz-64QAM-20300-100RB#0



Band4-20MHz-256QAM-20050-100RB#0



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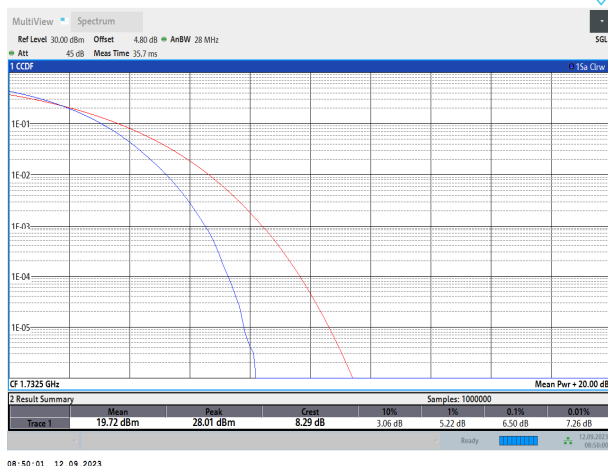
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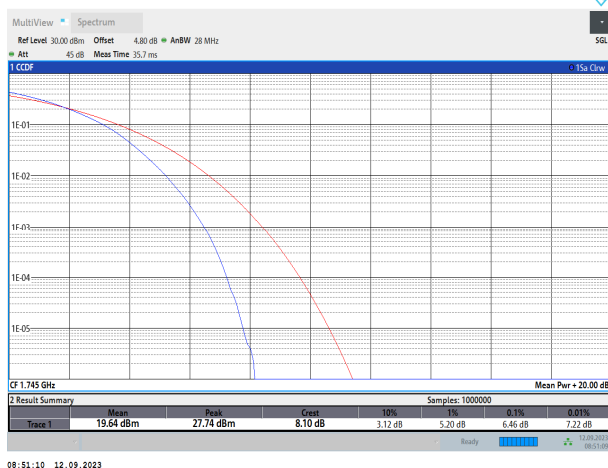
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Band4-20MHz-256QAM-20175-100RB#0



Band4-20MHz-256QAM-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	1.095	1.28	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	1.086	1.29	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	2.95	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.692	2.95	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.689	2.93	PASS
Band4	3MHz	256QAM	20175	15RB#0	2.687	2.94	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.87	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.467	4.88	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.473	4.87	PASS
Band4	5MHz	256QAM	20175	25RB#0	4.471	4.99	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.926	9.58	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.924	9.72	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.935	9.68	PASS
Band4	10MHz	256QAM	20175	50RB#0	8.924	9.62	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.458	14.70	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.468	15.18	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.447	14.76	PASS
Band4	15MHz	256QAM	20175	75RB#0	13.431	14.58	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.899	19.48	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.879	19.28	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.87	19.32	PASS
Band4	20MHz	256QAM	20175	100RB#0	17.873	19.28	PASS



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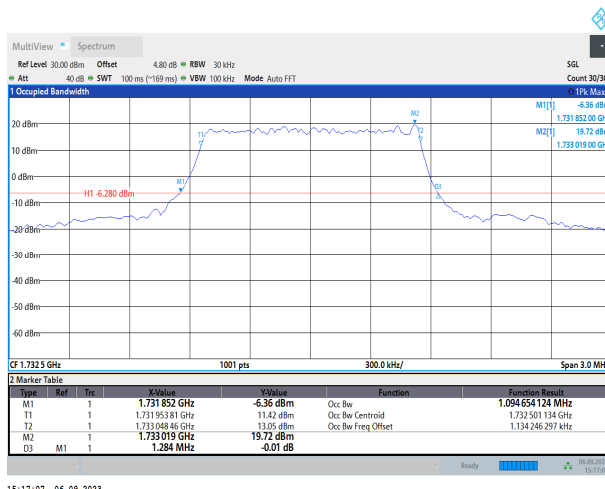
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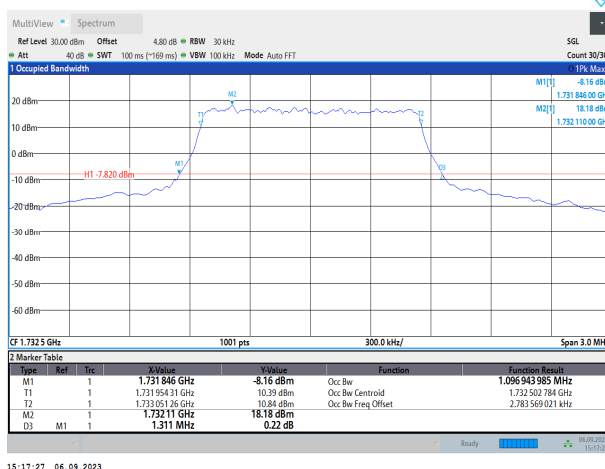
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Test Graphs

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



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



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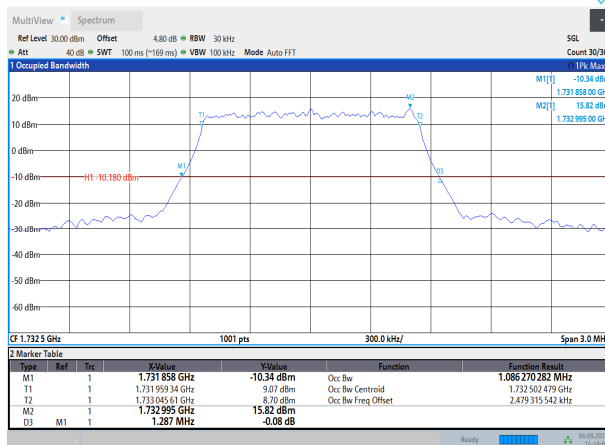
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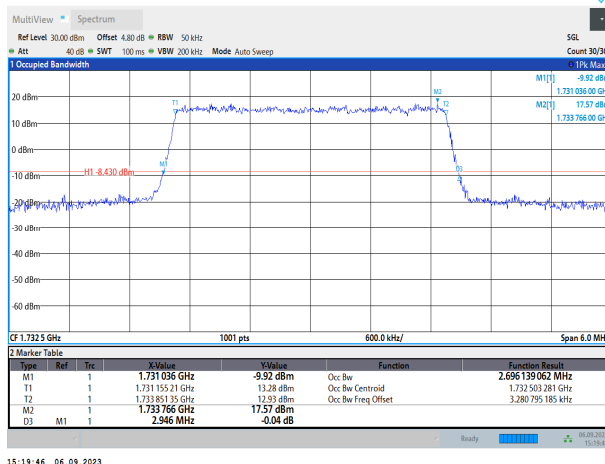
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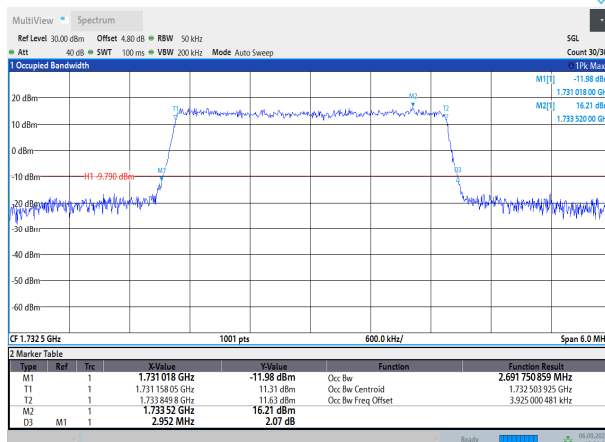
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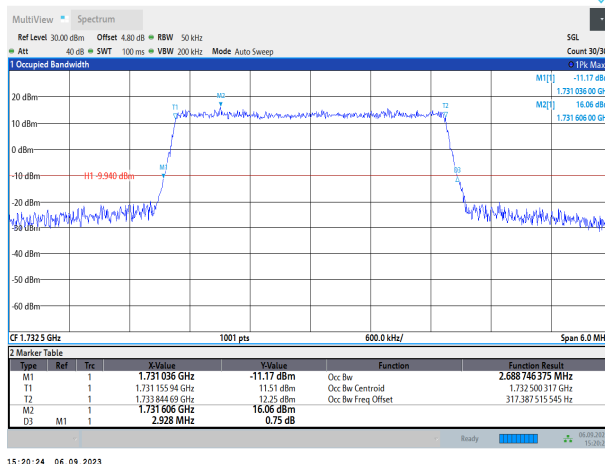
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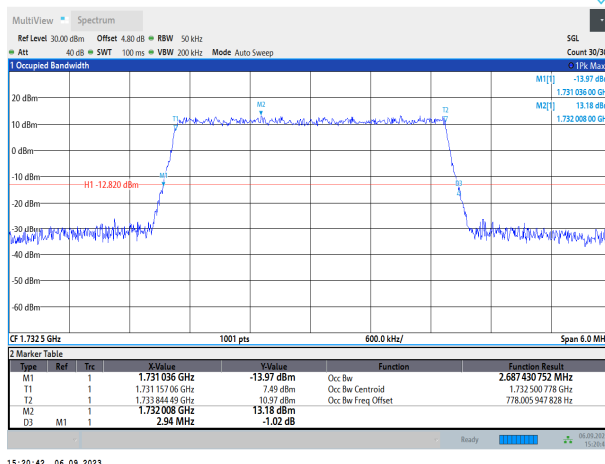
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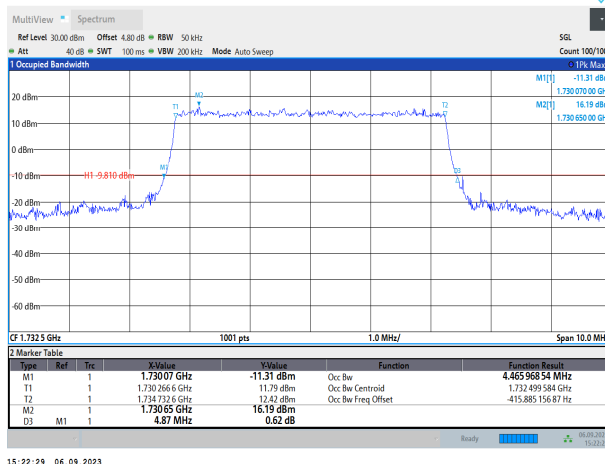
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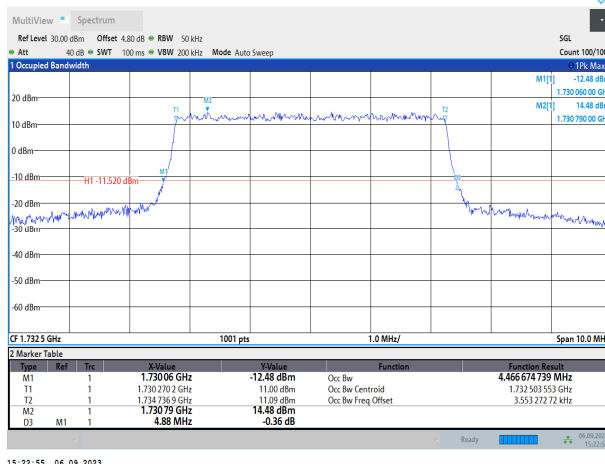
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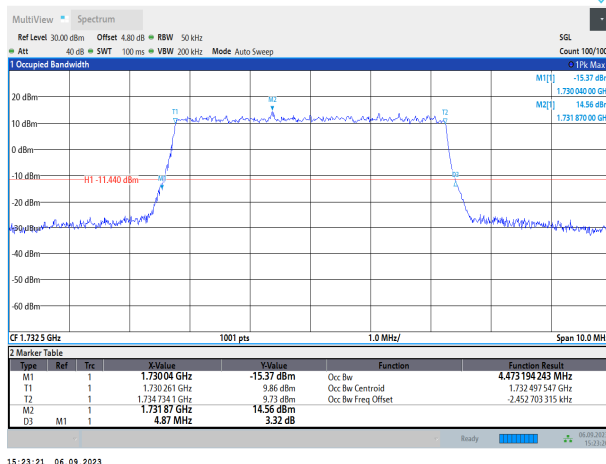


Report No.: SEWM2308000314RG01

Rev.: 01

Page: 25 of 53

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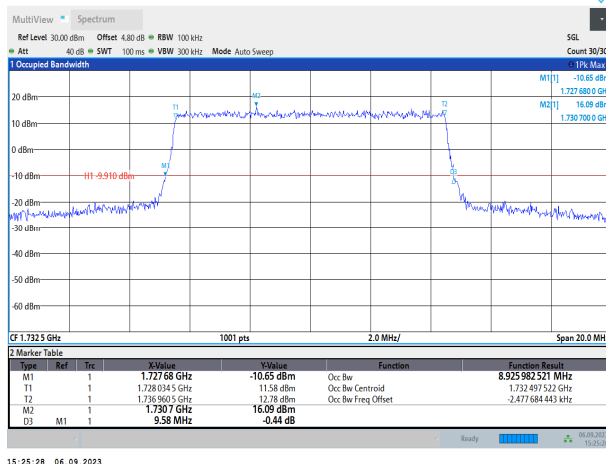


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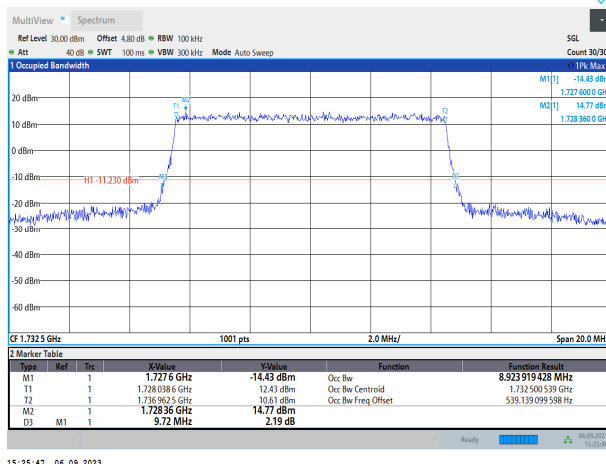
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Page: 26 of 53

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

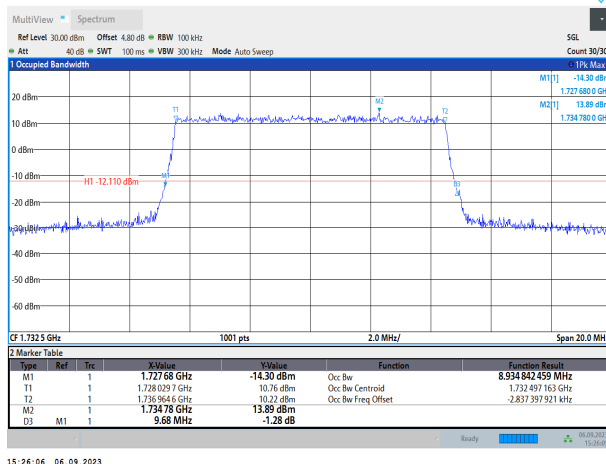


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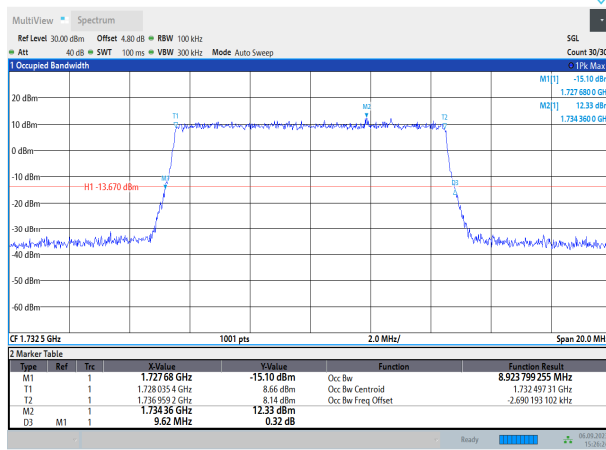
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Band4-10MHz-64QAM-20175-50RB#0



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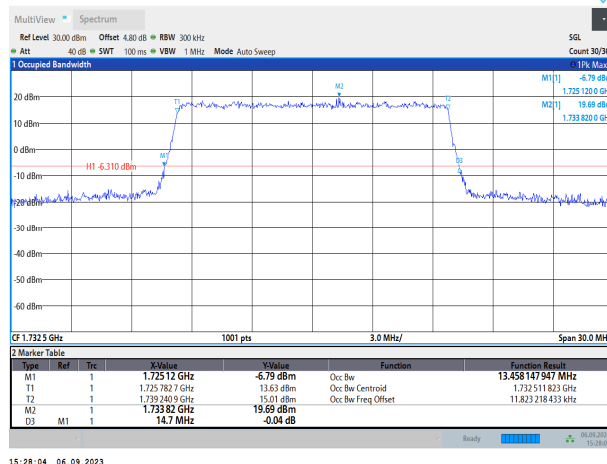
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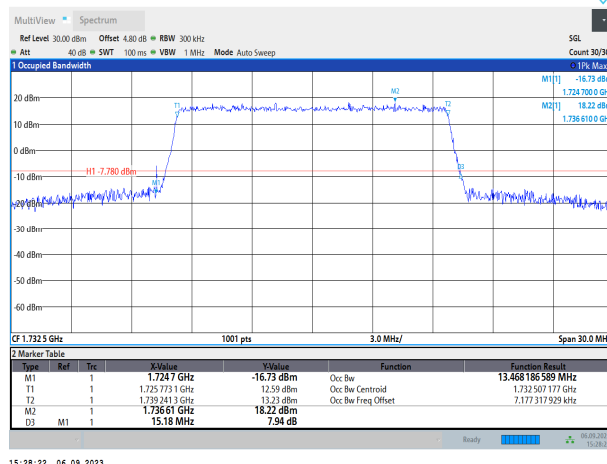
Rev.: 01

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



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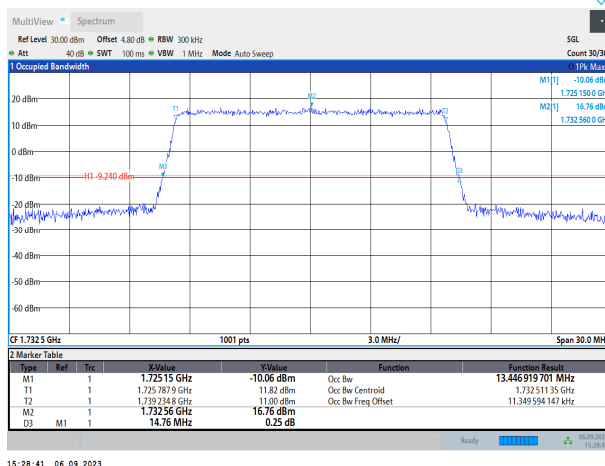


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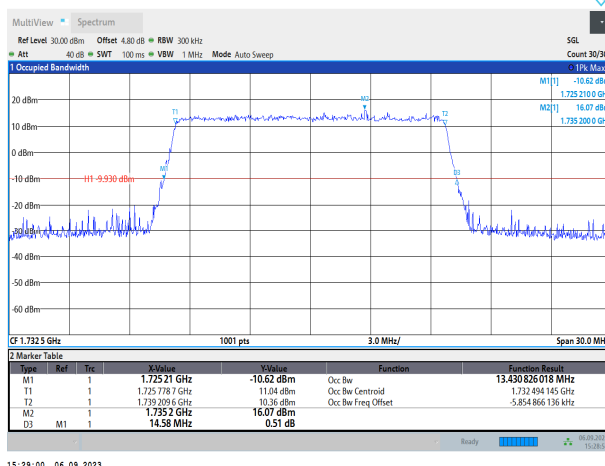
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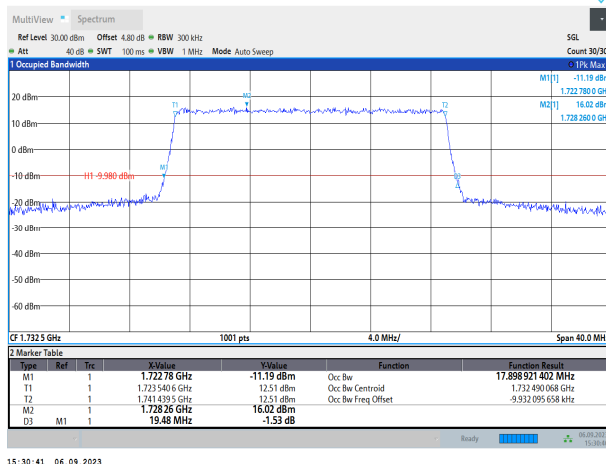


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Rev.: 01

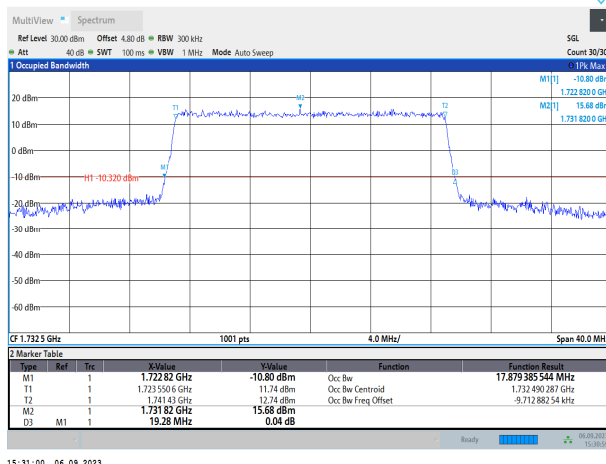
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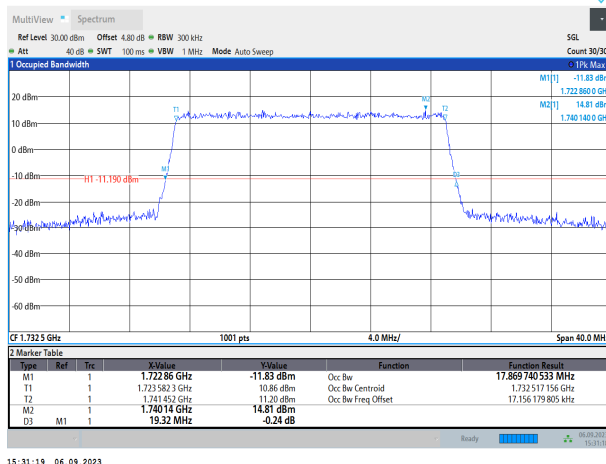
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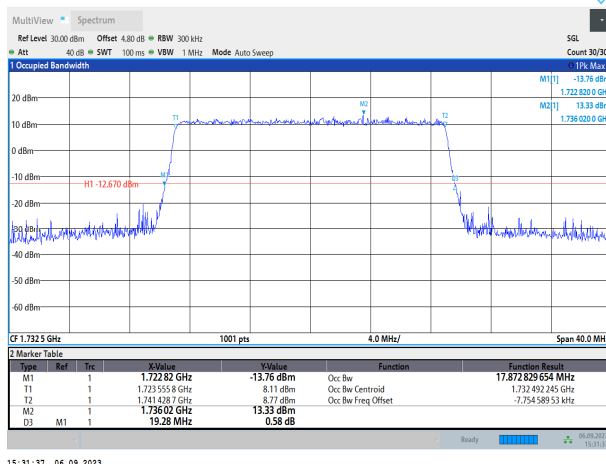
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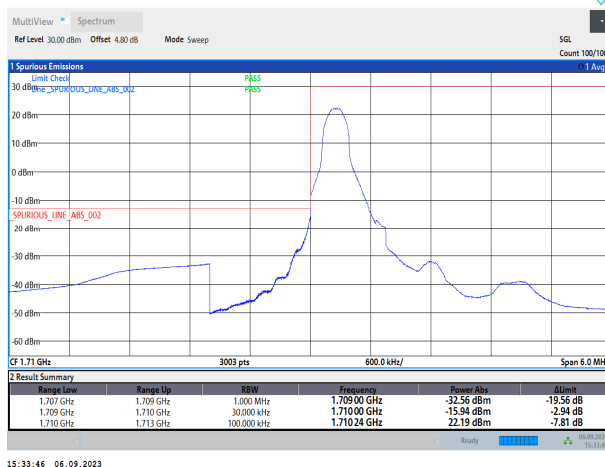
Rev.: 01

Page: 32 of 53

Band Edge

Test Graphs

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



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



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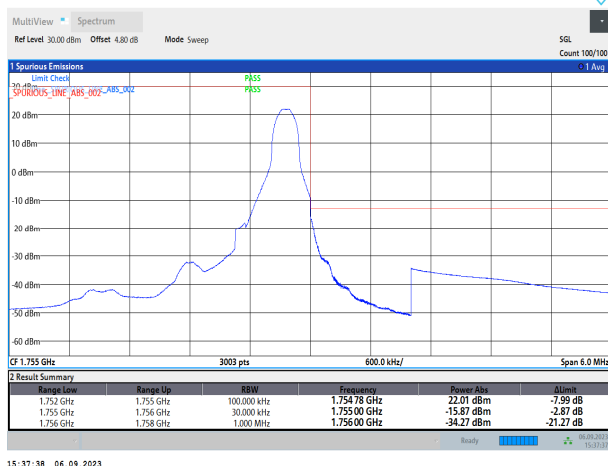
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Band4-1.4MHz-QPSK-20393-1RB#5



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



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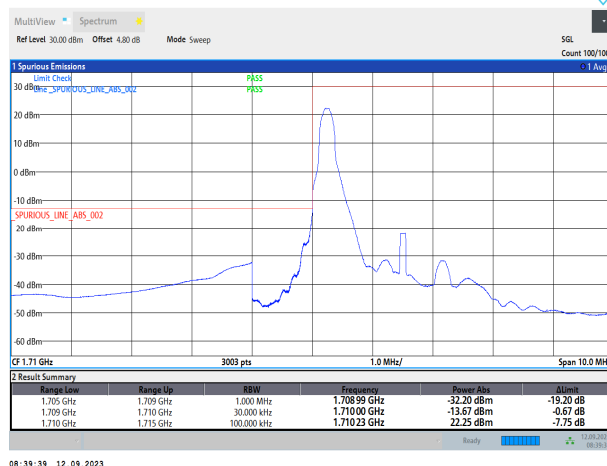
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Page: 34 of 53

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



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



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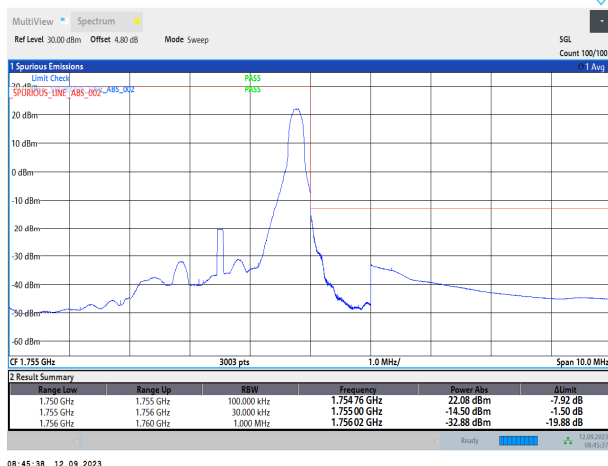
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Band4-3MHz-QPSK-20385-1RB#14



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



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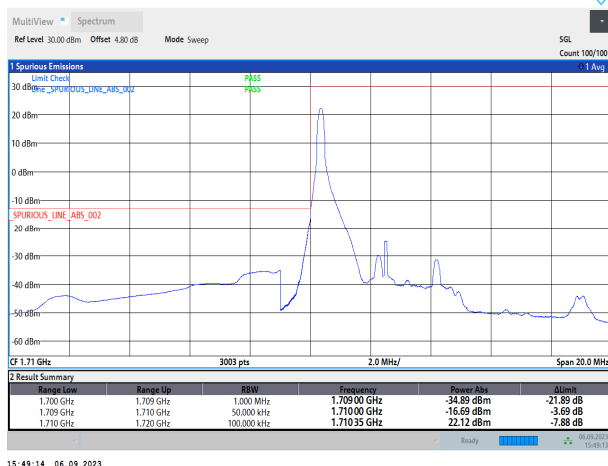
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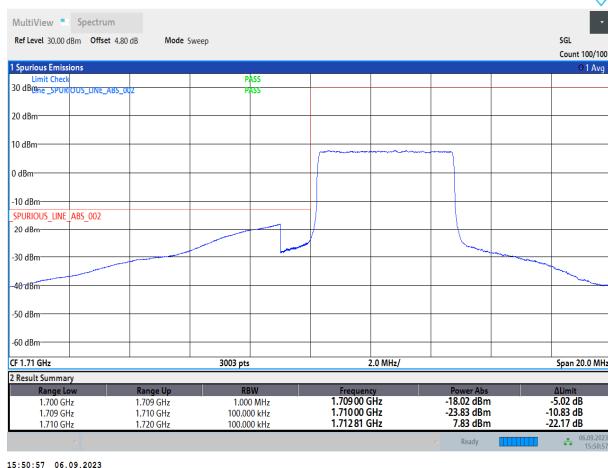
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Band4-5MHz-QPSK-19975-1RB#0



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

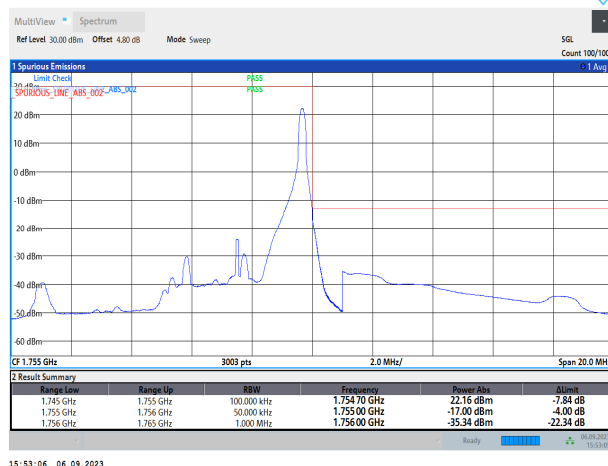


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Band4-5MHz-QPSK-20375-1RB#24



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



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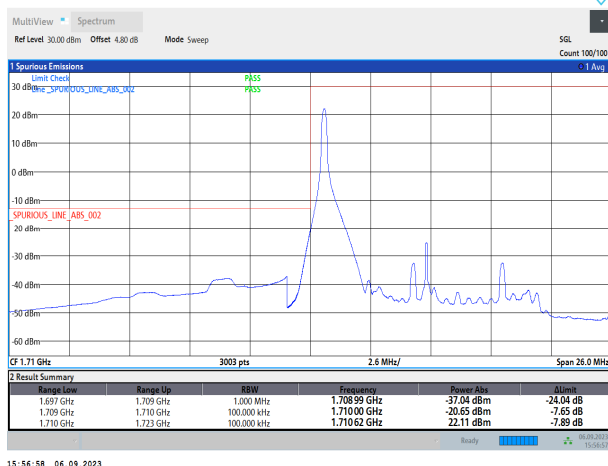
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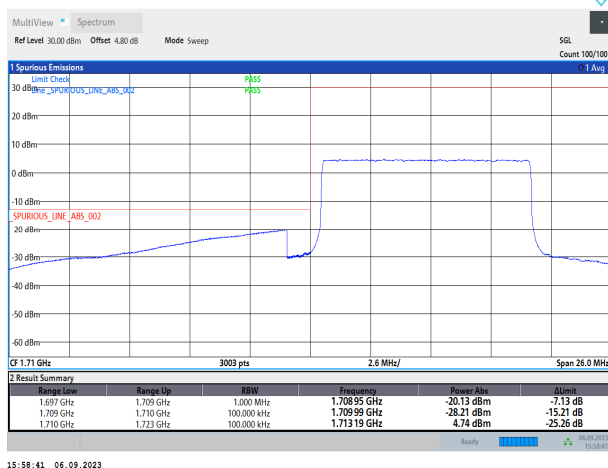
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Band4-10MHz-QPSK-20000-1RB#0



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



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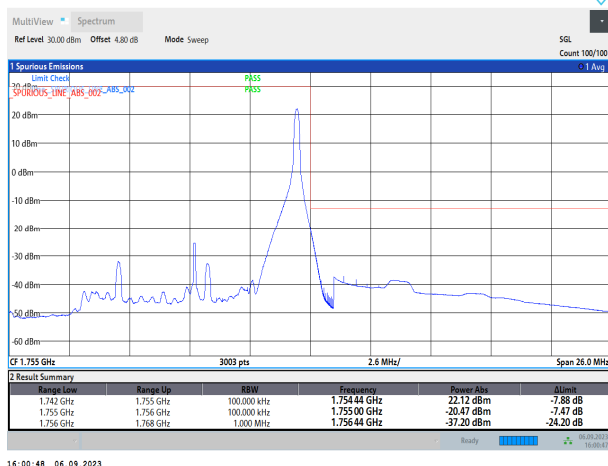
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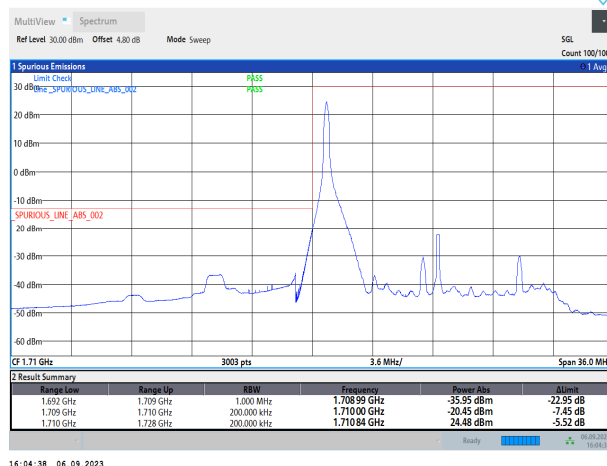
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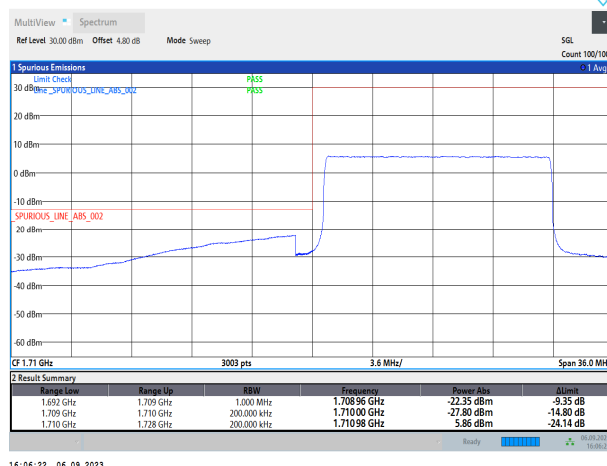
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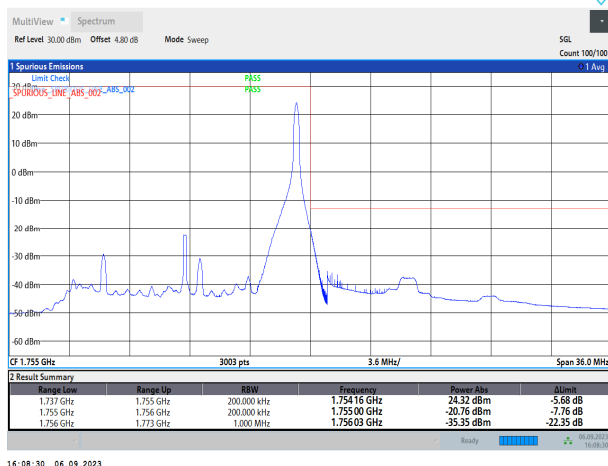
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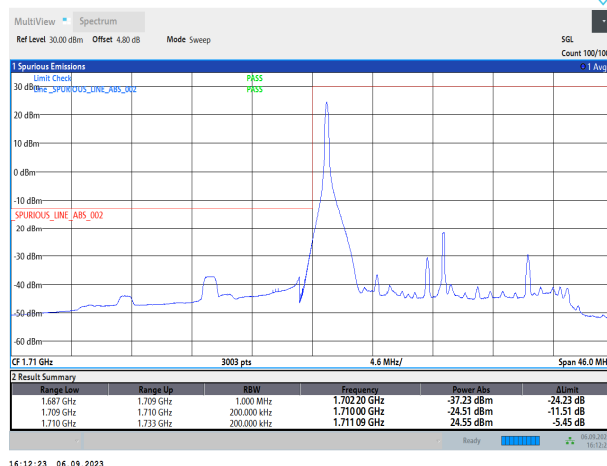
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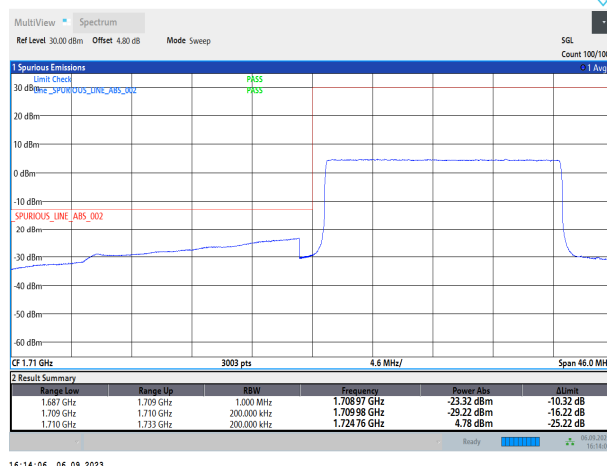
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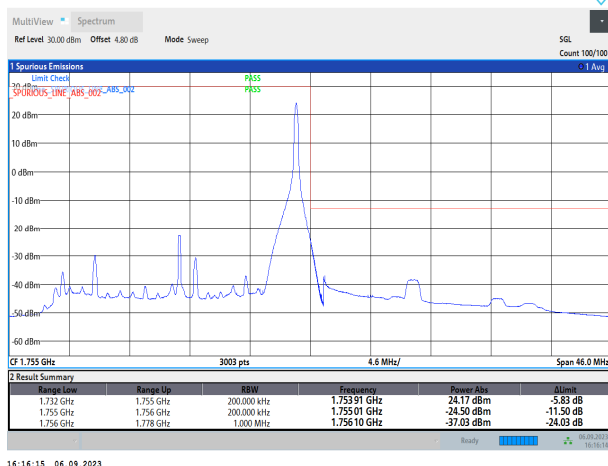
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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 43 of 53

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



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



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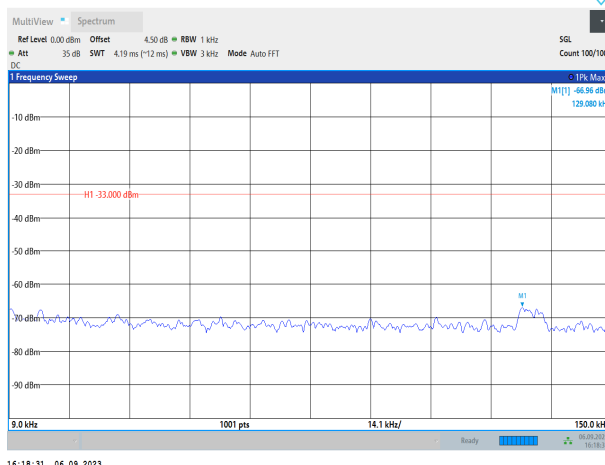
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Page: 44 of 53

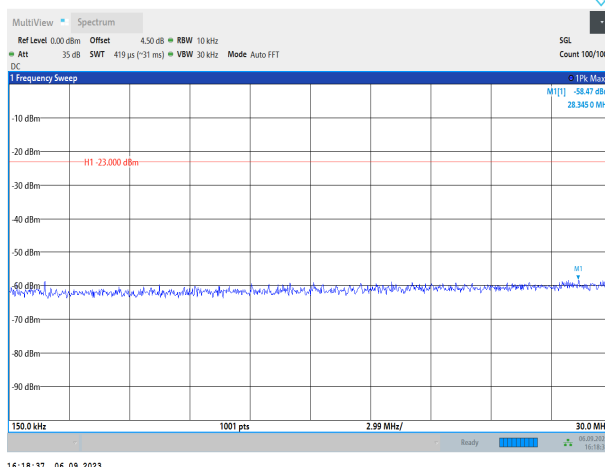
Conducted Spurious Emission

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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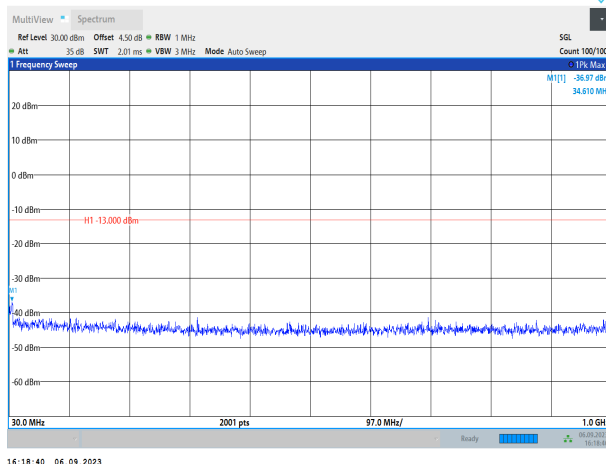
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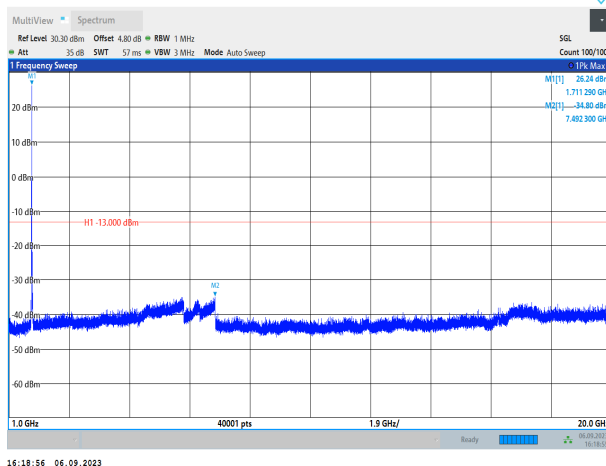
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Page: 45 of 53

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



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



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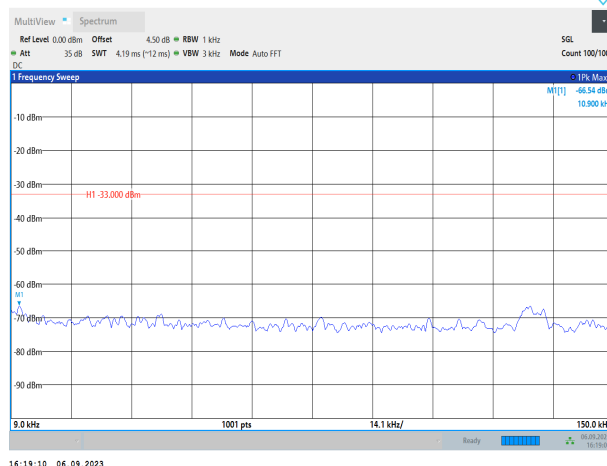
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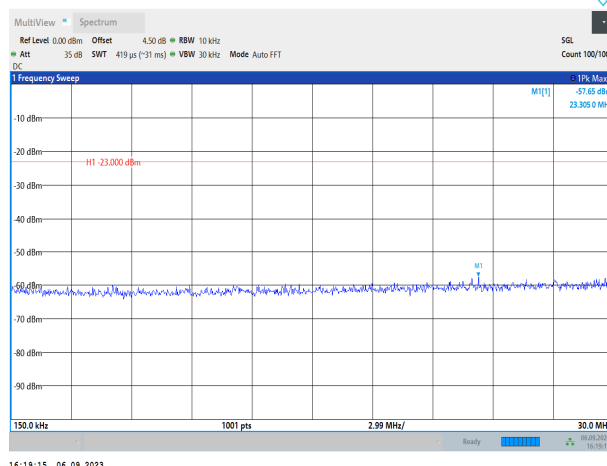
Rev.: 01

Page: 46 of 53

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



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



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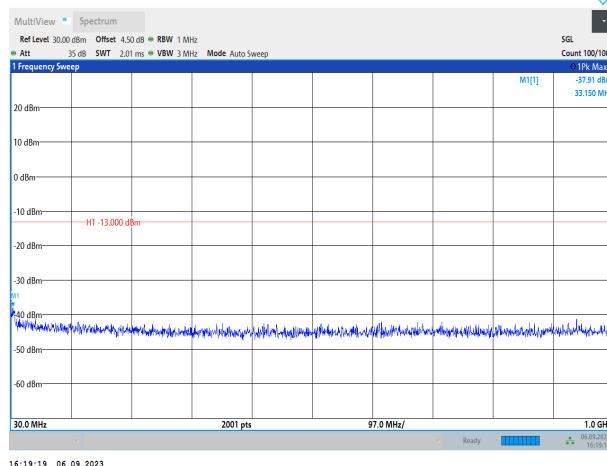
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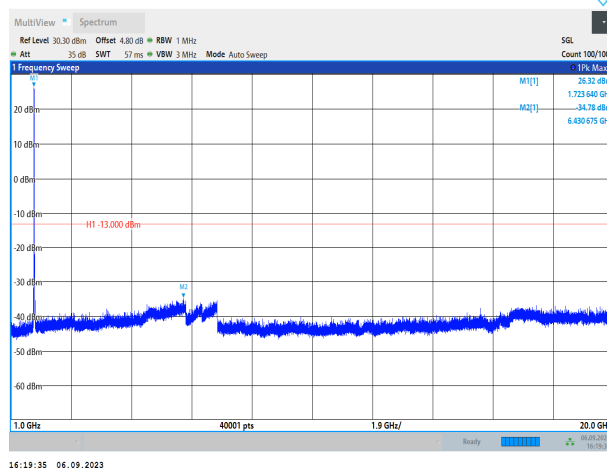
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Page: 47 of 53

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



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

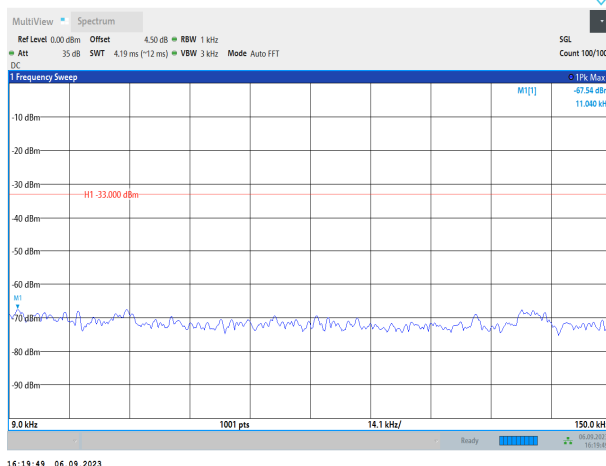


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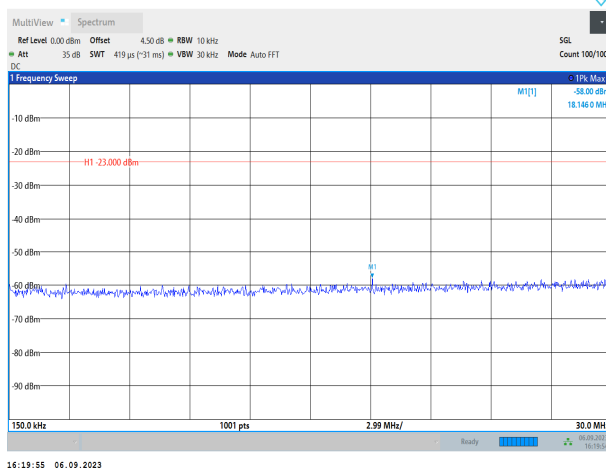
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Page: 48 of 53

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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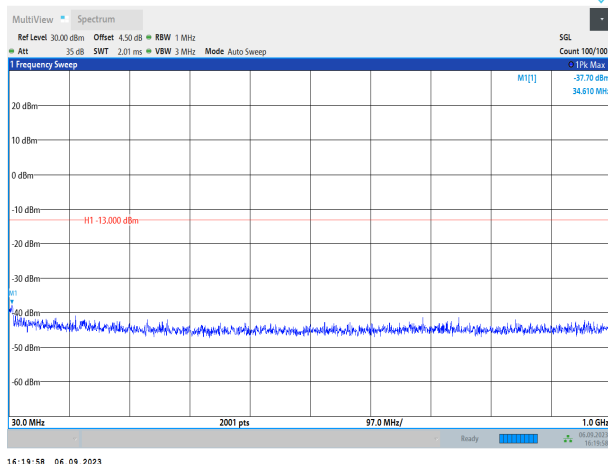
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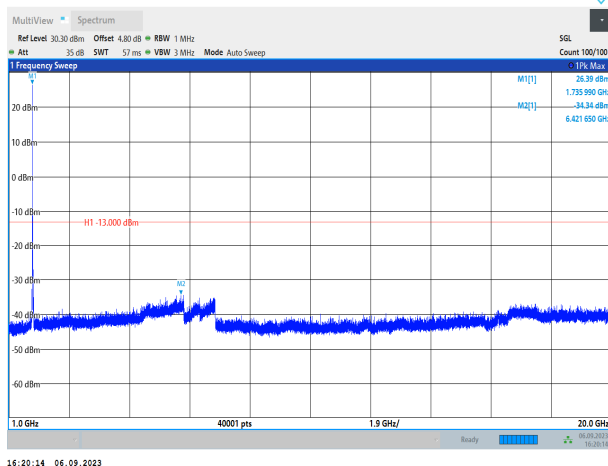
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Page: 49 of 53

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



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



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Rev.: 01

Page: 50 of 53

Field Strength of Spurious Radiation

Test Band = LTE Band 4_20MHz_ TM1
Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	45.50	-48.38	28.67	-69.47	-13.00	56.47	Vertical
2	5133.27	42.79	-47.84	31.82	-68.49	-13.00	55.49	Vertical
3	6844.36	44.41	-46.82	35.26	-62.41	-13.00	49.41	Vertical
4	8555.45	43.28	-44.11	36.98	-59.11	-13.00	46.11	Vertical
5	10266.54	40.39	-41.48	38.74	-57.61	-13.00	44.61	Vertical
6	11977.63	36.54	-39.54	39.20	-59.06	-13.00	46.06	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8555.25	45.65	-44.11	36.98	-56.74	-13.00	43.74	Horizontal
2	3422.18	45.75	-48.38	28.67	-69.22	-13.00	56.22	Horizontal
3	5133.27	43.85	-47.84	31.82	-67.43	-13.00	54.43	Horizontal
4	6844.36	44.83	-46.82	35.26	-61.99	-13.00	48.99	Horizontal
5	10266.54	40.06	-41.48	38.74	-57.94	-13.00	44.94	Horizontal
6	11977.63	36.62	-39.54	39.20	-58.98	-13.00	45.98	Horizontal



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Rev.: 01

Page: 51 of 53

Test Band = LTE Band 4_20MHz_TM1**Test Channel = Mid****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	43.55	-48.35	28.68	-71.38	-13.00	58.38	Vertical
2	5170.77	43.27	-47.87	31.91	-67.95	-13.00	54.95	Vertical
3	6894.36	45.82	-46.74	35.37	-60.81	-13.00	47.81	Vertical
4	8617.95	47.05	-44.00	37.07	-55.14	-13.00	42.14	Vertical
5	10341.54	38.44	-41.19	38.81	-59.20	-13.00	46.20	Vertical
6	12065.13	37.40	-39.56	39.16	-58.26	-13.00	45.26	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	43.94	-48.35	28.68	-70.99	-13.00	57.99	Horizontal
2	5170.77	44.90	-47.87	31.91	-66.32	-13.00	53.32	Horizontal
3	6894.36	46.35	-46.74	35.37	-60.28	-13.00	47.28	Horizontal
4	8617.95	45.69	-44.00	37.07	-56.50	-13.00	43.50	Horizontal
5	10341.54	38.73	-41.19	38.81	-58.91	-13.00	45.91	Horizontal
6	12065.13	36.75	-39.56	39.16	-58.91	-13.00	45.91	Horizontal



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Page: 52 of 53

Test Band = LTE Band 4_20MHz_ TM1**Test Channel = High****Final Data List**

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	46.54	-48.32	28.69	-68.35	-13.00	55.35	Vertical
2	5208.27	43.00	-47.88	32.00	-68.14	-13.00	55.14	Vertical
3	6944.36	43.71	-46.67	35.48	-62.74	-13.00	49.74	Vertical
4	8680.45	46.14	-44.09	37.15	-56.06	-13.00	43.06	Vertical
5	10416.54	38.79	-41.14	38.88	-58.74	-13.00	45.74	Vertical
6	12152.63	36.68	-39.73	39.11	-59.20	-13.00	46.20	Vertical

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	45.83	-48.32	28.69	-69.06	-13.00	56.06	Horizontal
2	5208.27	43.38	-47.88	32.00	-67.76	-13.00	54.76	Horizontal
3	6944.36	43.03	-46.67	35.48	-63.42	-13.00	50.42	Horizontal
4	8680.45	46.86	-44.09	37.15	-55.34	-13.00	42.34	Horizontal
5	10416.54	38.98	-41.14	38.88	-58.55	-13.00	45.55	Horizontal
6	12152.63	37.53	-39.73	39.11	-58.35	-13.00	45.35	Horizontal

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

Report No.: SEWM2308000314RG01

Rev.: 01

Page: 53 of 53

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	2.00	0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	0.40	0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-2.70	-0.001558	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	7.90	0.004560	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-4.80	-0.002771	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	8.20	0.004733	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.20	-0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	9.80	0.005657	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.90	0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	3.10	0.001789	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	6.10	0.003521	PASS

---End of Attachment---



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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