



Report No.: SEWM2309000347RG01

Rev.: 01

Page: 1 of 52

Appendix B.4

LTE Band 4



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Report No.: SEWM2309000347RG01
 Rev.: 01
 Page: 2 of 52

Effective (Isotropic) Radiated Power Output Data

Test Result

ANT31

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.34	20.34	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.63	20.63	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.54	20.54	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.60	19.60	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.38	20.38	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.53	20.53	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.39	20.39	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.61	19.61	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.22	20.22	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.52	20.52	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.31	20.31	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.40	19.40	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.78	19.78	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.86	19.86	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.93	19.93	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.66	18.66	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.95	19.95	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.85	19.85	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.76	19.76	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.71	18.71	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.70	19.70	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.81	19.81	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.49	19.49	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.54	18.54	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.96	17.96	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.75	18.75	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.66	18.66	30.00	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 3 of 52

Band4	1.4MHz	64QAM	19957	6RB#0	20.64	17.64	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.86	18.86	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.58	18.58	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.93	18.93	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.51	17.51	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.69	18.69	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.49	18.49	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.57	18.57	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.43	17.43	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.53	20.53	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.57	20.57	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.53	20.53	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.64	19.64	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.55	20.55	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.62	20.62	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.59	20.59	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.60	19.60	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.35	20.35	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.59	20.59	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.49	20.49	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.50	19.50	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.90	19.90	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.00	20.00	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.76	19.76	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.64	18.64	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.01	20.01	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.94	19.94	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.81	19.81	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.62	18.62	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.08	20.08	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.68	19.68	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.54	19.54	30.00	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 4 of 52

Band4	3MHz	16QAM	20385	15RB#0	21.53	18.53	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.82	18.82	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.72	18.72	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.67	18.67	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.65	17.65	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.76	18.76	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.83	18.83	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.88	18.88	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.63	17.63	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.78	18.78	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.70	18.70	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.59	18.59	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.55	17.55	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.35	20.35	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.51	20.51	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.55	20.55	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.57	19.57	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.54	20.54	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.54	20.54	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.66	20.66	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.65	19.65	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.50	20.50	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.52	20.52	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.62	20.62	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.55	19.55	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.88	19.88	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.69	19.69	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.12	20.12	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.68	18.68	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.07	20.07	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.96	19.96	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.09	20.09	30.00	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 5 of 52

Band4	5MHz	16QAM	20175	25RB#0	21.69	18.69	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.68	19.68	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.48	19.48	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.62	19.62	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.56	18.56	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.84	18.84	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.93	18.93	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.79	18.79	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.71	17.71	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.78	18.78	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.69	18.69	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.82	18.82	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.61	17.61	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.63	18.63	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.52	18.52	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.61	18.61	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.57	17.57	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.28	20.28	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.50	20.50	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.47	20.47	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.61	19.61	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.58	20.58	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.58	20.58	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.44	20.44	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.61	19.61	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.53	20.53	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.62	20.62	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.39	20.39	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.59	19.59	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.90	19.90	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.70	19.70	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.73	19.73	30.00	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 6 of 52

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Band4	10MHz	16QAM	20175	1RB#0	22.86	19.86	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.80	19.80	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.00	20.00	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.67	18.67	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.82	19.82	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.66	19.66	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.67	19.67	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.60	18.60	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.64	18.64	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.91	18.91	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.72	18.72	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.65	17.65	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.68	18.68	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.76	18.76	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.72	18.72	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.69	17.69	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.76	18.76	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.73	18.73	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.77	18.77	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.59	17.59	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.29	20.29	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.41	20.41	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.45	20.45	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.49	19.49	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.42	20.42	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.50	20.50	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.45	20.45	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.55	19.55	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.36	20.36	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.34	20.34	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.44	20.44	30.00	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 7 of 52

Band4	15MHz	QPSK	20325	75RB#0	22.48	19.48	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.67	19.67	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.77	19.77	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.76	19.76	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.51	18.51	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.68	19.68	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.78	19.78	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.73	19.73	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.51	18.51	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.64	19.64	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.61	19.61	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.01	20.01	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.49	18.49	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.56	18.56	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.69	18.69	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.76	18.76	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.51	17.51	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.66	18.66	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.58	18.58	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.67	18.67	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.55	17.55	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.57	18.57	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.46	18.46	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.53	18.53	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.50	17.50	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.26	20.26	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.42	20.42	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.46	20.46	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.53	19.53	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.26	20.26	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.43	20.43	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.45	20.45	30.00	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 8 of 52

Band4	20MHz	QPSK	20175	100RB#0	22.51	19.51	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.35	20.35	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.39	20.39	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.47	20.47	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.59	19.59	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.62	19.62	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.79	19.79	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.91	19.91	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.52	18.52	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.94	19.94	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.67	19.67	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.80	19.80	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.54	18.54	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.72	19.72	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.74	19.74	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.87	19.87	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.50	18.50	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.57	18.57	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.67	18.67	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.74	18.74	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.55	17.55	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.56	18.56	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.69	18.69	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.69	18.69	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.55	17.55	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.63	18.63	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.73	18.73	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.52	18.52	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.53	17.53	30.00	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 9 of 52

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.78	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.04	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.94	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.66	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.88	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.74	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.44	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.62	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.56	13	PASS



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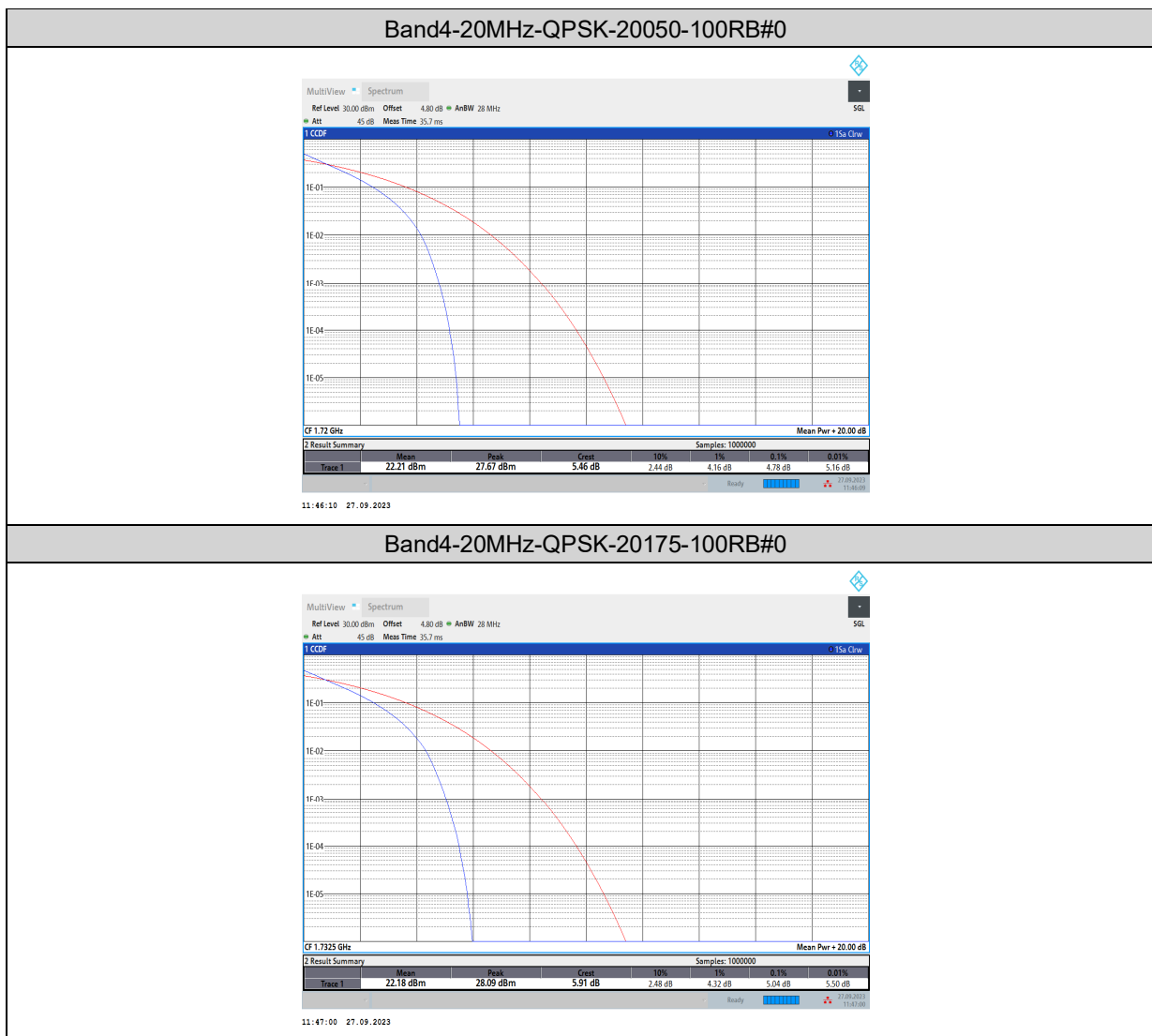
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Rev.: 01
Page: 10 of 52

Test Graphs



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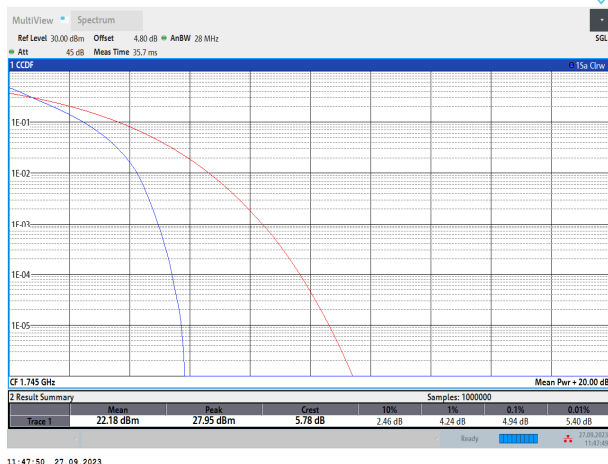
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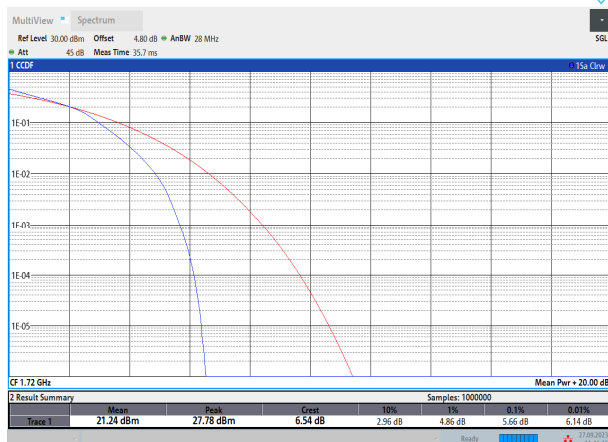
Page: 11 of 52

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



11:47:50 27.09.2023

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



11:46:26 27.09.2023



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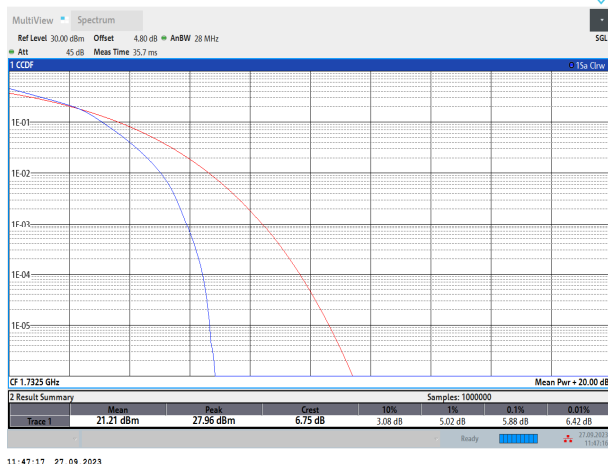
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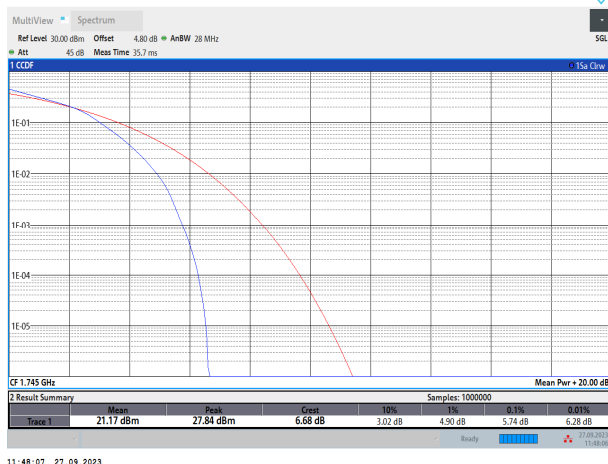
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Band4-20MHz-16QAM-20175-100RB#0



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



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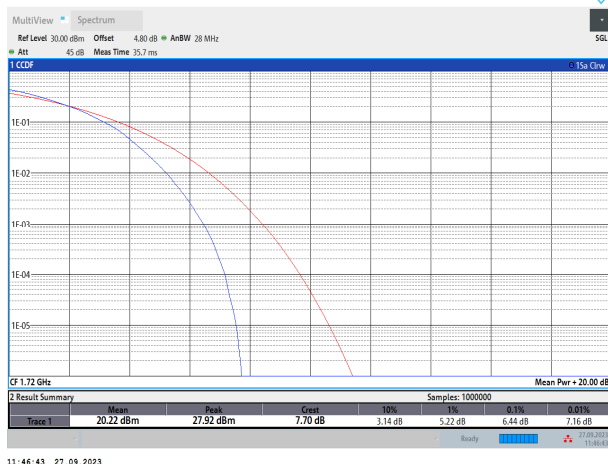
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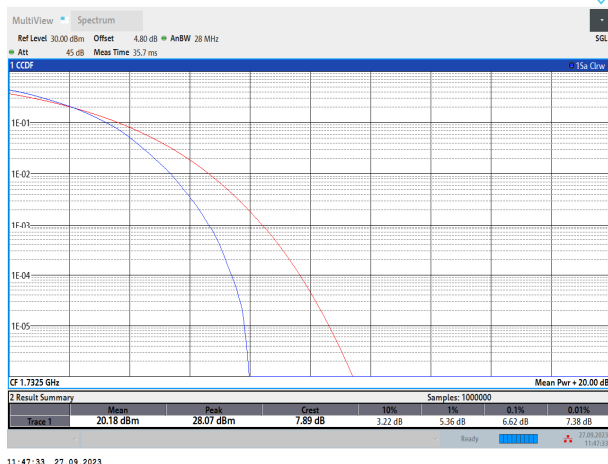
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Band4-20MHz-64QAM-20050-100RB#0



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



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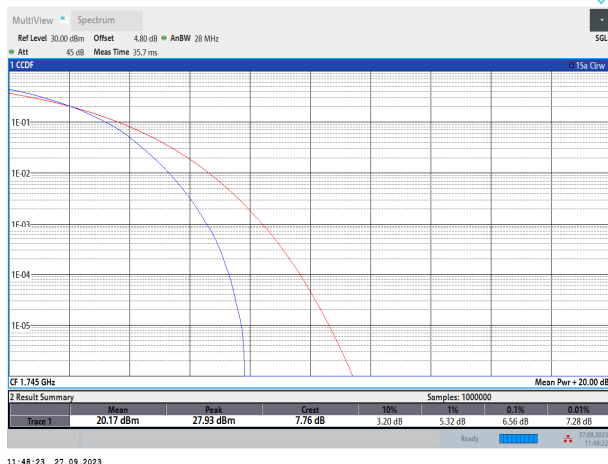
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Report No.: SEWM2309000347RG01

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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	1.085	1.23	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.091	1.24	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.09	1.23	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.693	2.98	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.689	2.99	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.689	2.96	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.475	4.86	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.467	4.89	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.481	4.90	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.934	9.66	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.932	9.66	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.94	9.66	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.483	14.82	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.447	14.76	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.446	14.79	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.928	19.36	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.906	19.44	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.897	19.48	PASS



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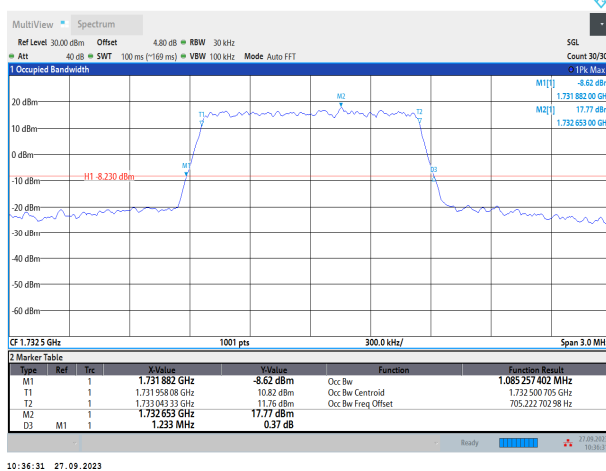
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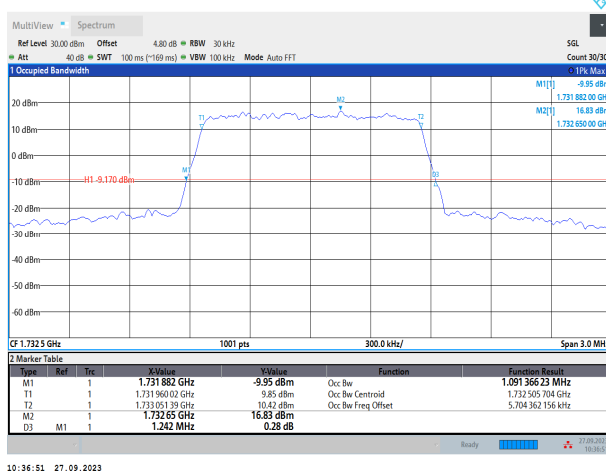
Page: 16 of 52

Test Graphs

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



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

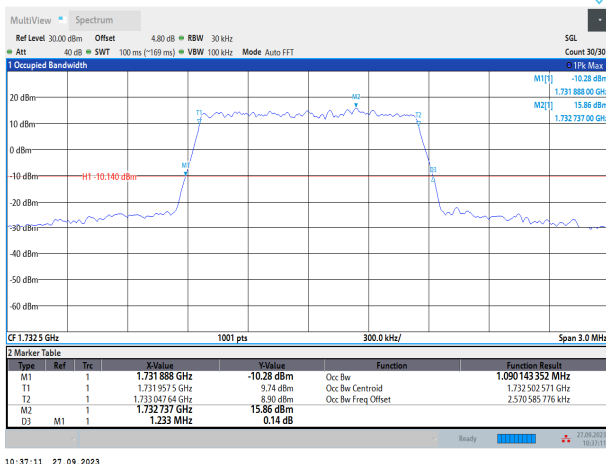


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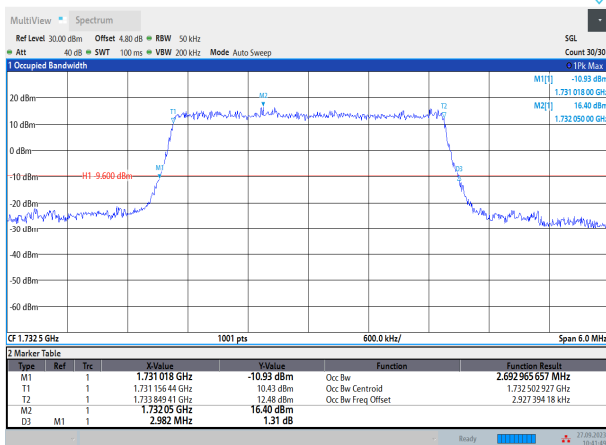
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Band4-1.4MHz-64QAM-20175-6RB#0



10:37:11 27.09.2023

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



10:41:50 27.09.2023



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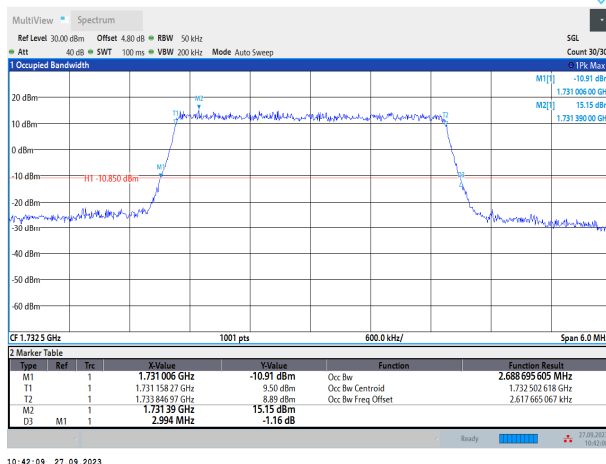
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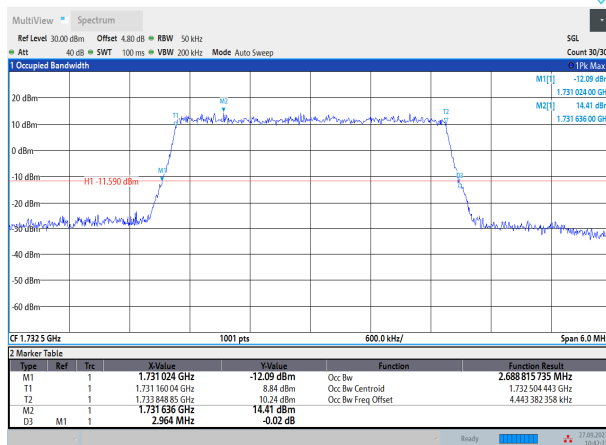
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Band4-3MHz-16QAM-20175-15RB#0



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



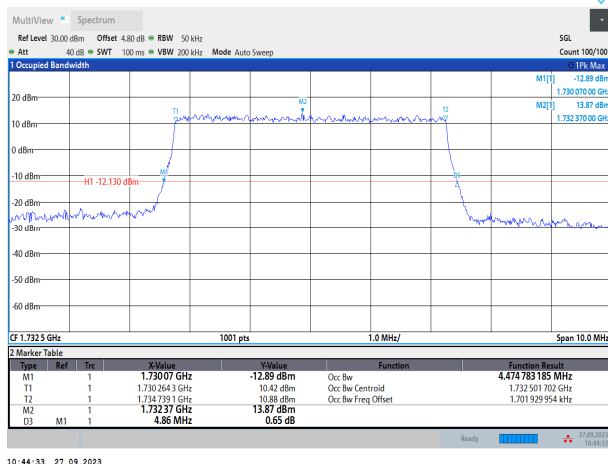
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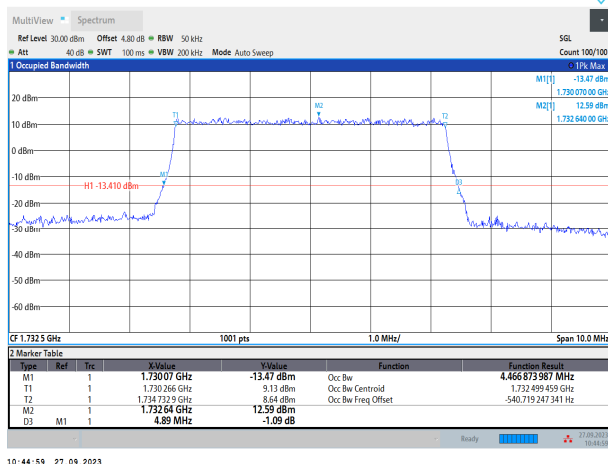
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Page: 19 of 52

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



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

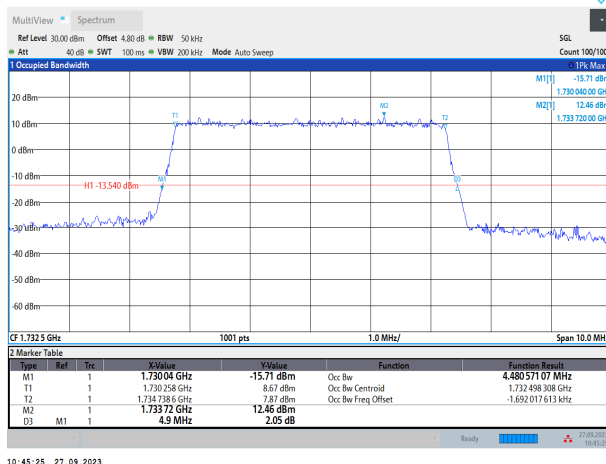


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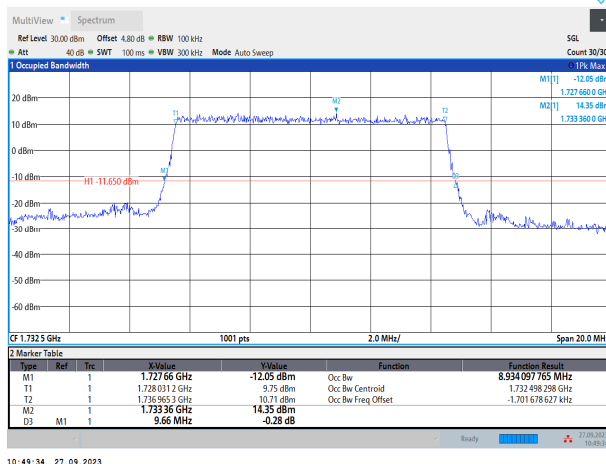
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Page: 20 of 52

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



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

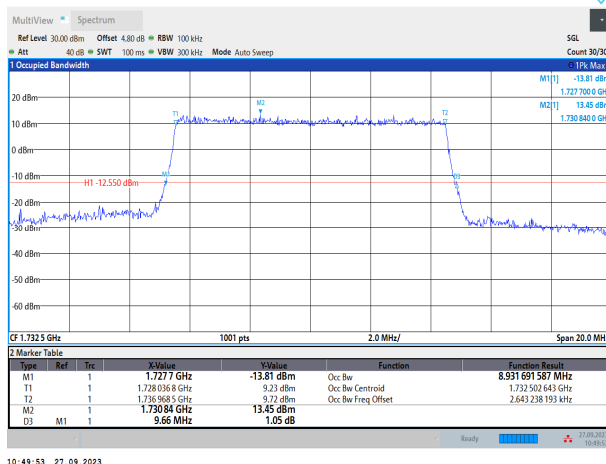


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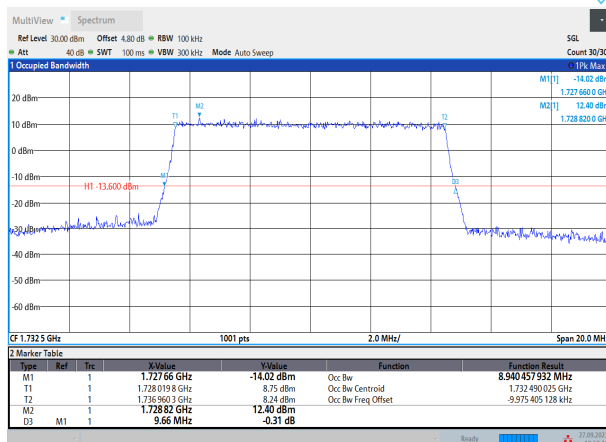
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Band4-10MHz-16QAM-20175-50RB#0



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



10:50:12 27.09.2023



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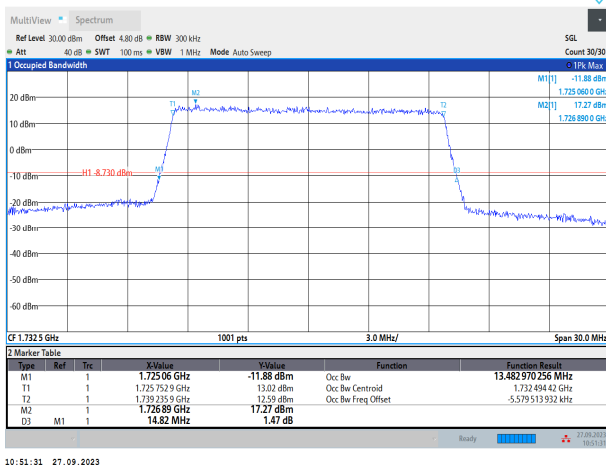
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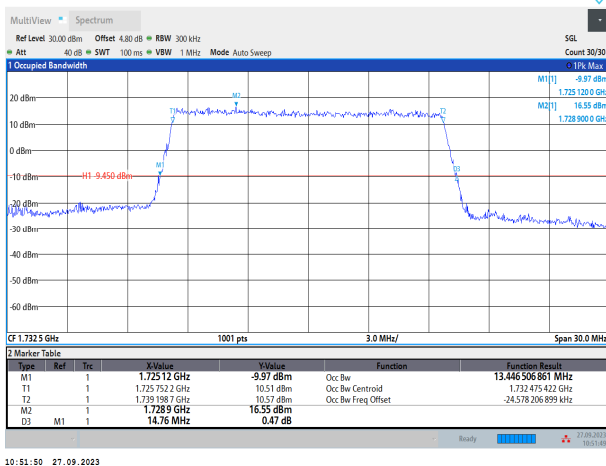
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Band4-15MHz-QPSK-20175-75RB#0



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



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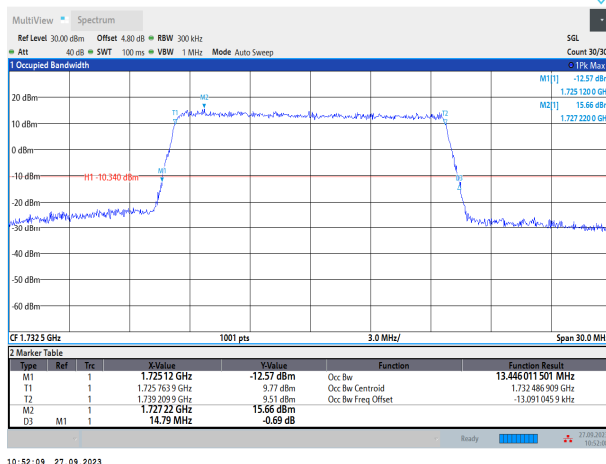
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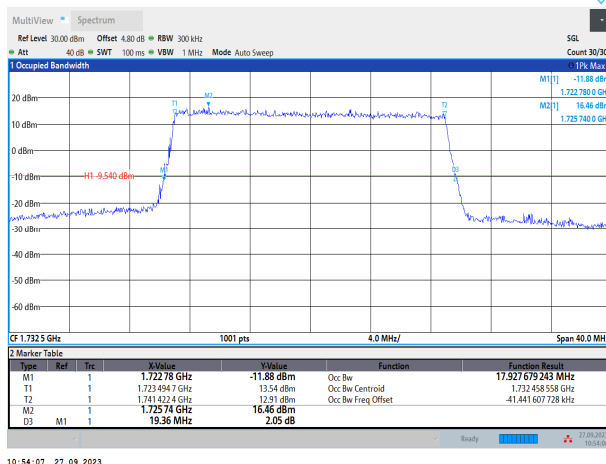
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Band4-15MHz-64QAM-20175-75RB#0



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



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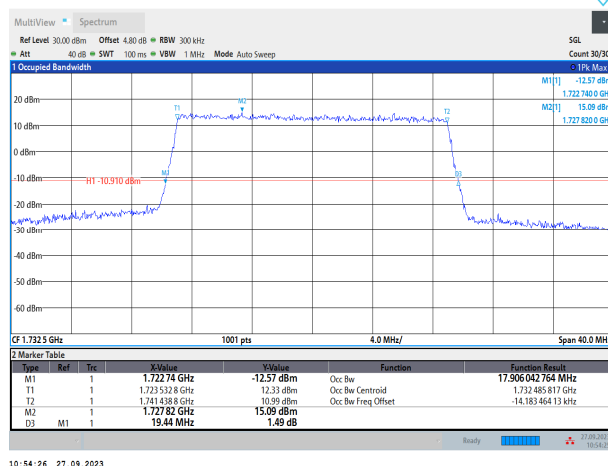
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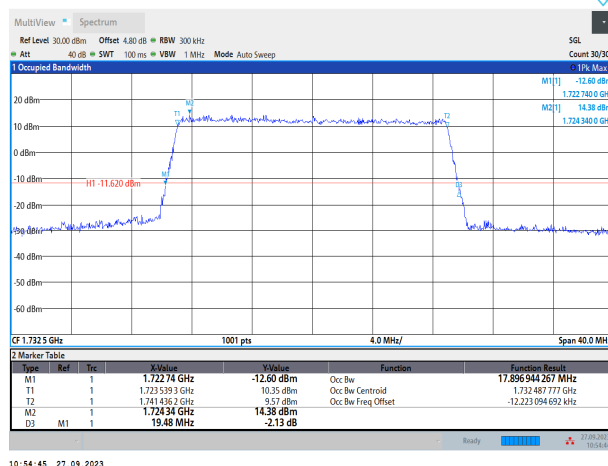
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Page: 24 of 52

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



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



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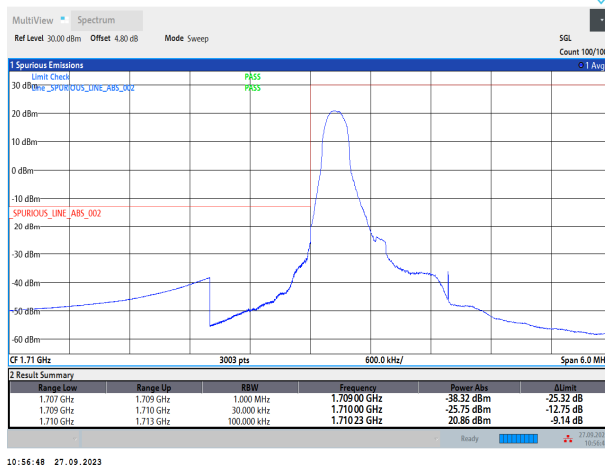
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Page: 25 of 52

Band Edge

Test Graphs

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



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



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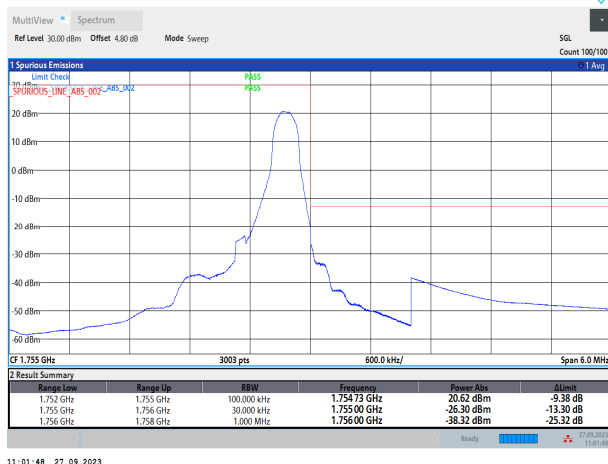
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Page: 26 of 52

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



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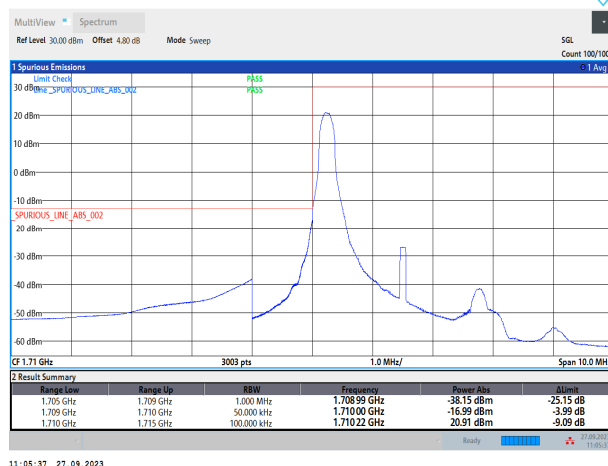
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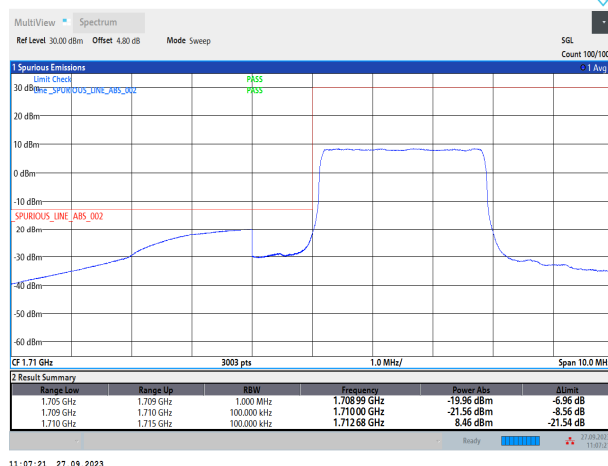
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Band4-3MHz-QPSK-19965-1RB#0



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



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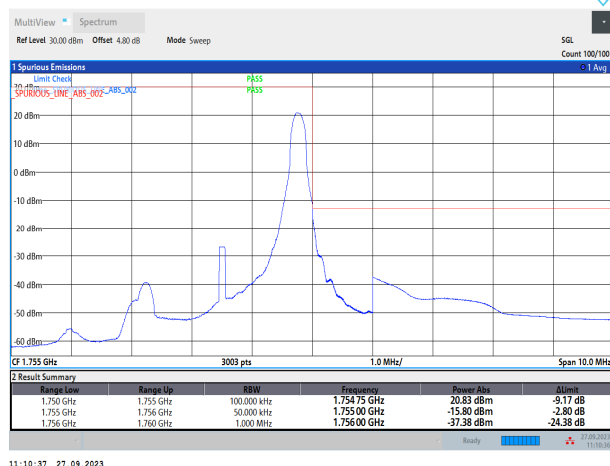
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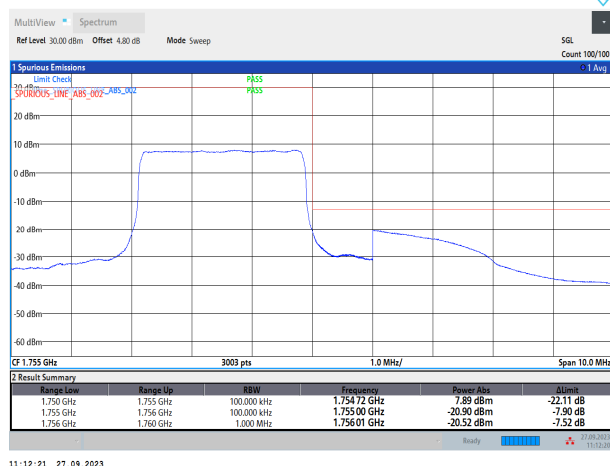
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Page: 28 of 52

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



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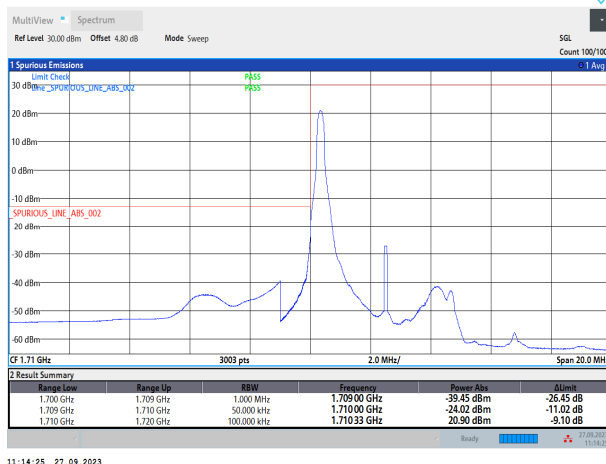
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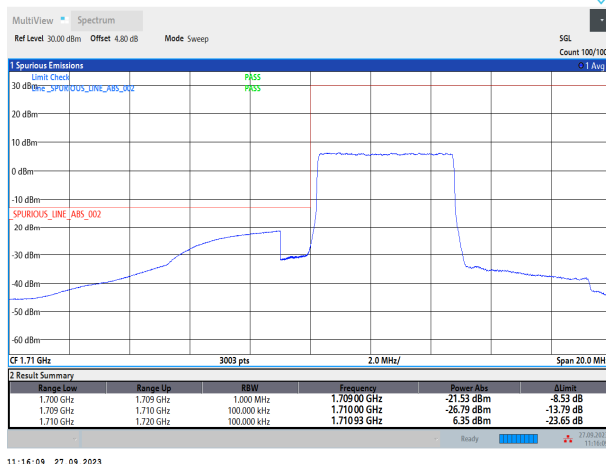
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Band4-5MHz-QPSK-19975-1RB#0



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



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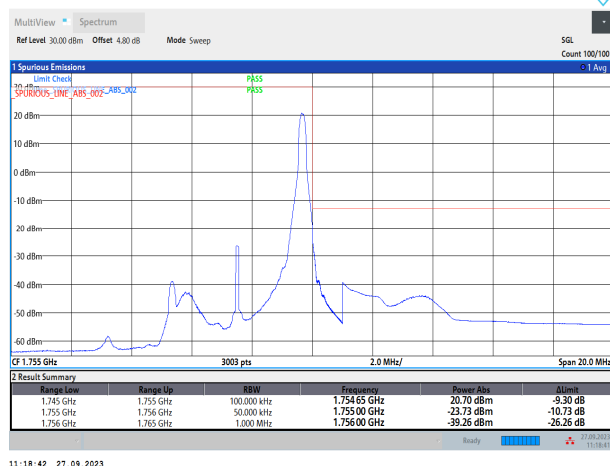
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Page: 30 of 52

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



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



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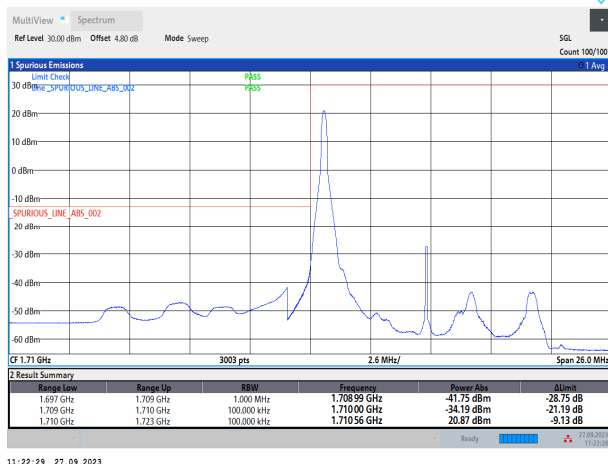
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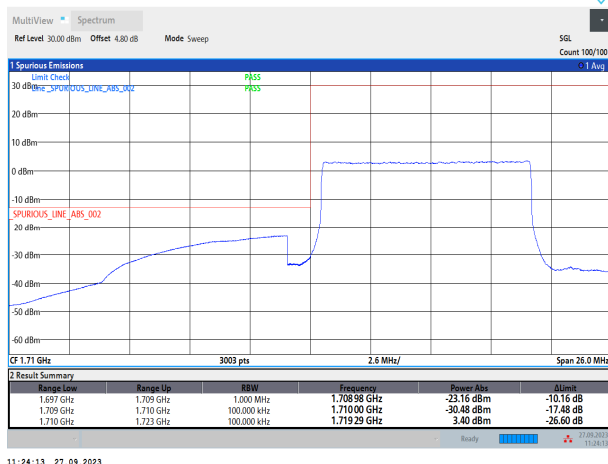
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Page: 31 of 52

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



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



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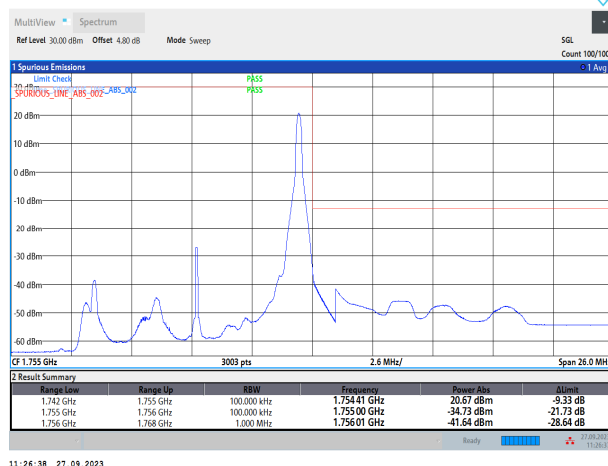
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Rev.: 01

Page: 32 of 52

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



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



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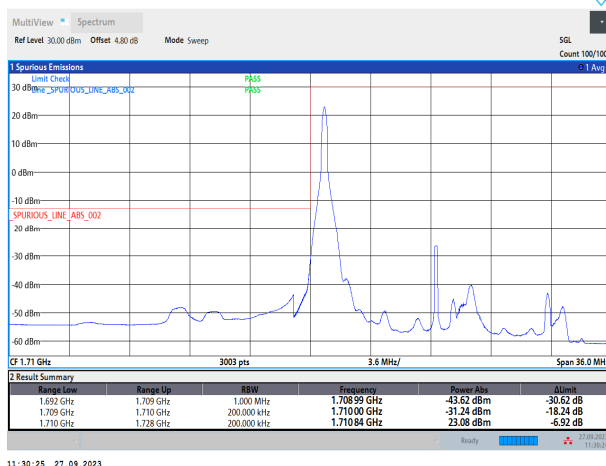
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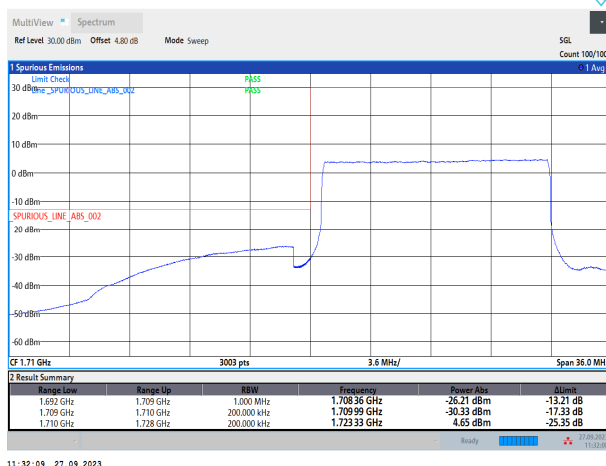
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Page: 33 of 52

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



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



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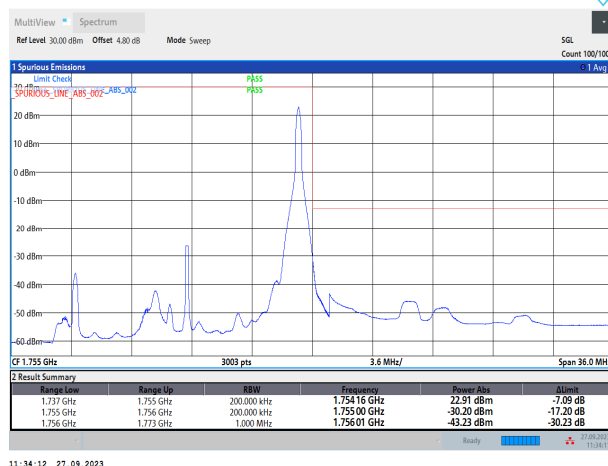
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Page: 34 of 52

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



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



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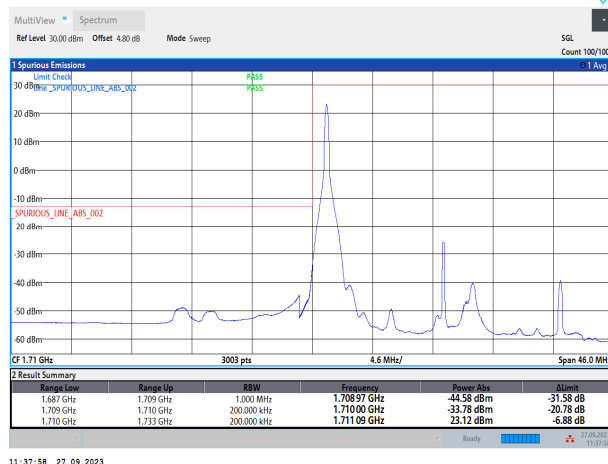
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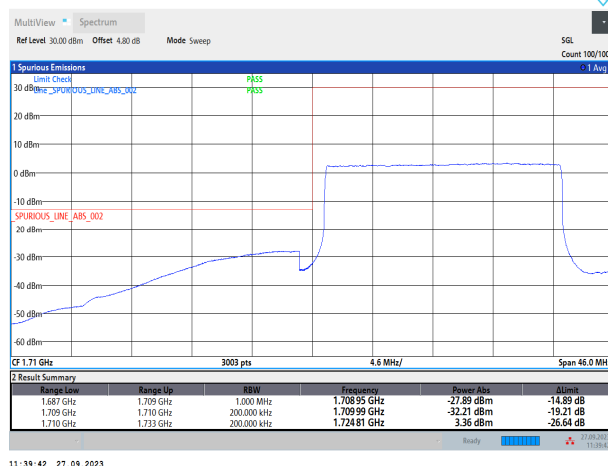
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Band4-20MHz-QPSK-20050-1RB#0



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



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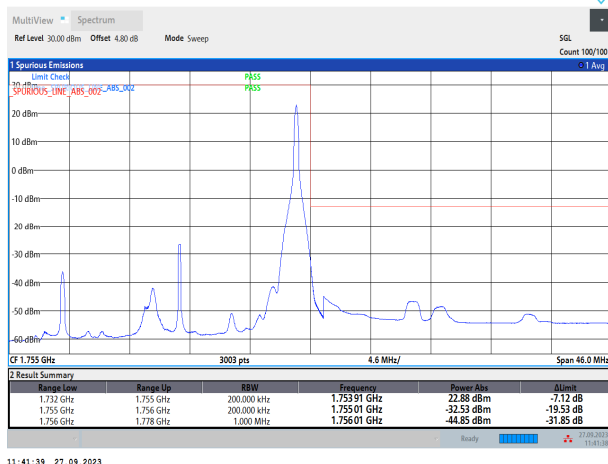
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Page: 36 of 52

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



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



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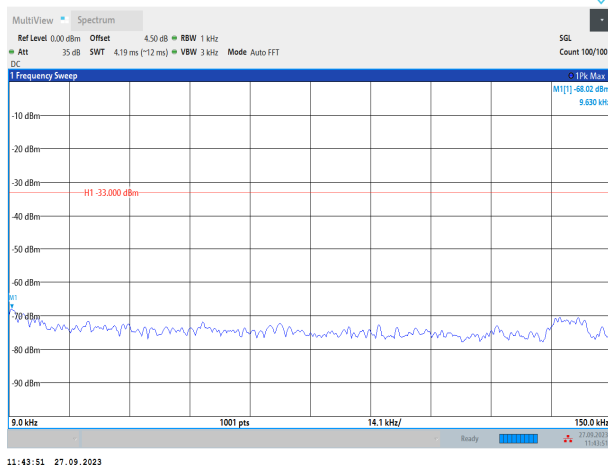
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Page: 37 of 52

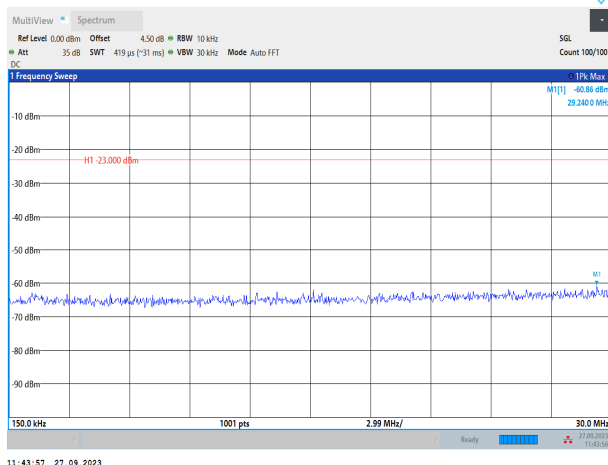
Conducted Spurious Emission

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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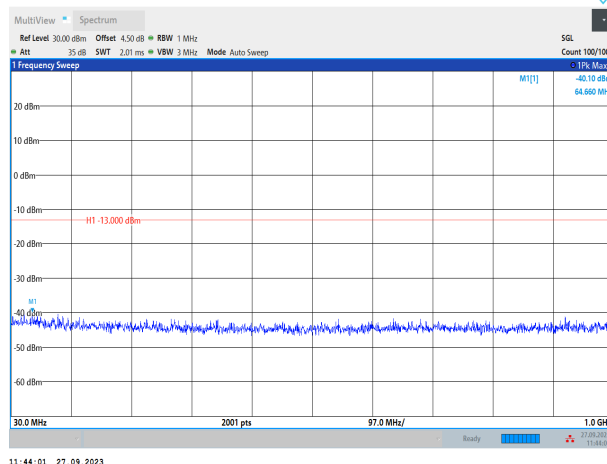


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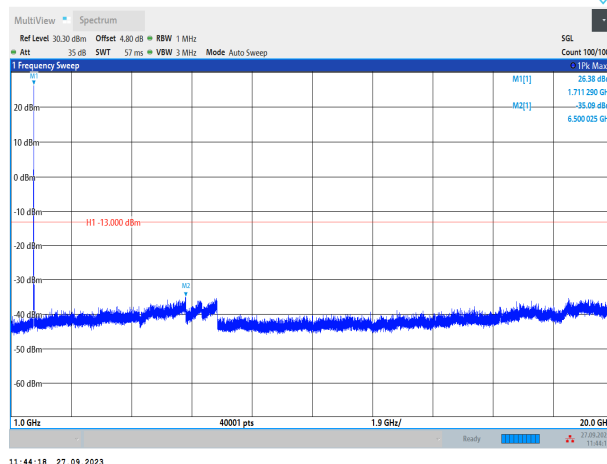
Page: 38 of 52

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



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



11:44:18 27.09.2023



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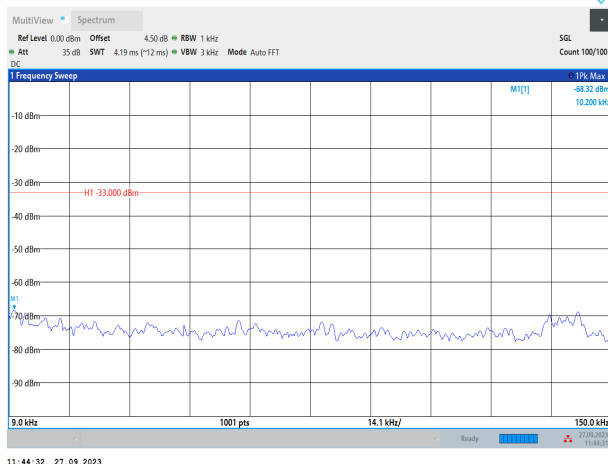
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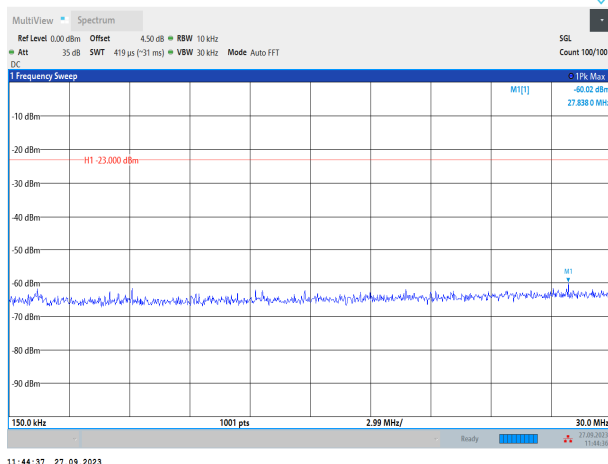
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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



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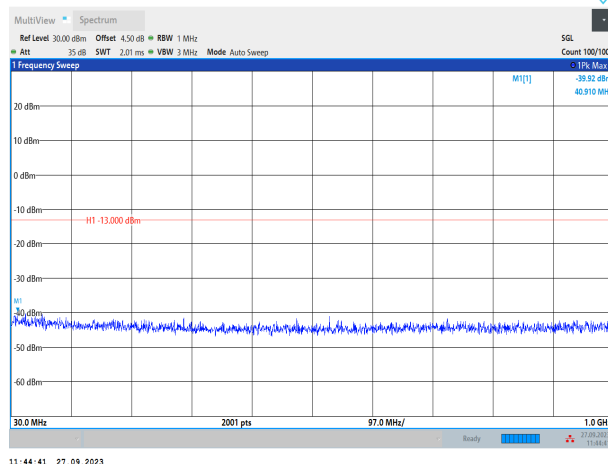
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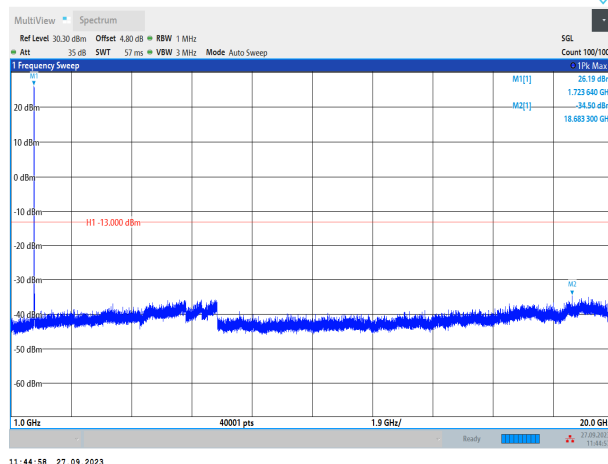
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Page: 40 of 52

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



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



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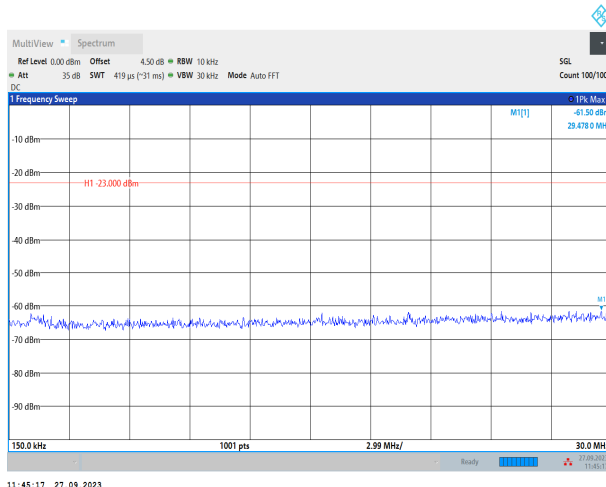
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Page: 41 of 52

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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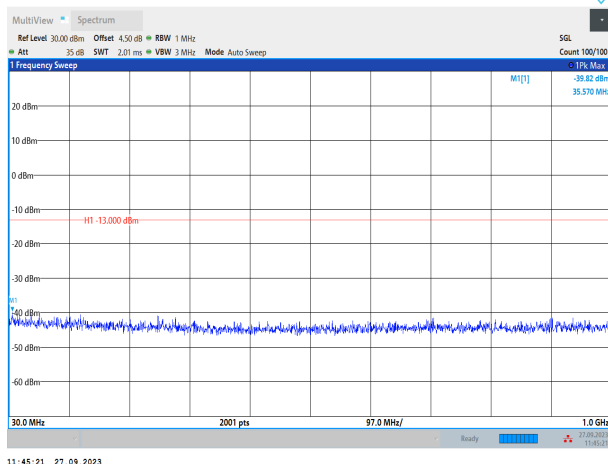
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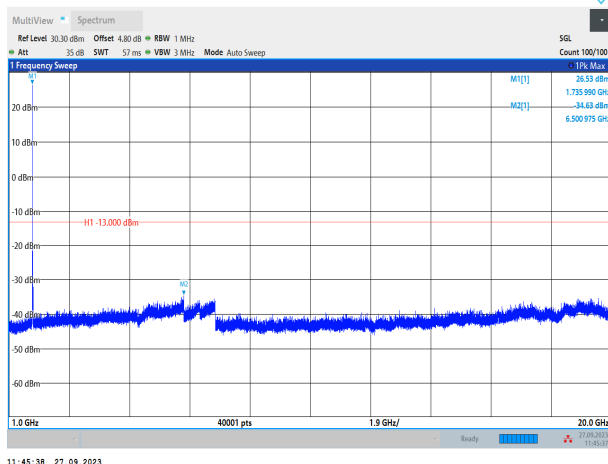
Rev.: 01

Page: 42 of 52

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



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



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Report No.: SEWM2309000347RG01
 Rev.: 01
 Page: 43 of 52

Field Strength of Spurious Radiation

Test Band = LTE Band4_ 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	3422.1800	40.59	-46.28	28.55	-72.39	-13.00	59.39	Horizontal
2	5133.2700	38.65	-45.34	31.72	-70.23	-13.00	57.23	Horizontal
3	6844.3600	38.43	-44.14	34.92	-66.05	-13.00	53.05	Horizontal
4	8555.4500	34.53	-41.46	36.52	-65.67	-13.00	52.67	Horizontal
5	10266.5400	29.82	-39.23	38.33	-66.33	-13.00	53.33	Horizontal
6	11977.6300	25.95	-37.51	38.80	-68.03	-13.00	55.03	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.40	-46.28	28.55	-72.58	-13.00	59.58	Vertical
2	5133.2700	38.37	-45.34	31.72	-70.51	-13.00	57.51	Vertical
3	6844.3600	38.46	-44.14	34.92	-66.02	-13.00	53.02	Vertical
4	8555.4500	34.35	-41.46	36.52	-65.85	-13.00	52.85	Vertical
5	10266.5400	30.10	-39.23	38.33	-66.05	-13.00	53.05	Vertical
6	11977.6300	25.15	-37.51	38.80	-68.83	-13.00	55.83	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 44 of 52

Test Band = LTE Band4_ 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	3447.1800	41.62	-46.27	28.57	-71.34	-13.00	58.34	Horizontal
2	5170.7700	39.33	-45.31	31.81	-69.42	-13.00	56.42	Horizontal
3	6894.3600	37.97	-44.10	35.01	-66.38	-13.00	53.38	Horizontal
4	8617.9500	34.33	-41.40	36.49	-65.83	-13.00	52.83	Horizontal
5	10341.5400	31.01	-39.06	38.37	-64.94	-13.00	51.94	Horizontal
6	12065.1300	27.01	-37.44	38.82	-66.87	-13.00	53.87	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	42.00	-46.27	28.57	-70.96	-13.00	57.96	Vertical
2	5170.7700	39.32	-45.31	31.81	-69.43	-13.00	56.43	Vertical
3	6894.3600	37.66	-44.10	35.01	-66.69	-13.00	53.69	Vertical
4	8617.9500	35.29	-41.40	36.49	-64.87	-13.00	51.87	Vertical
5	10341.5400	30.21	-39.06	38.37	-65.74	-13.00	52.74	Vertical
6	12065.1300	26.34	-37.44	38.82	-67.54	-13.00	54.54	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 45 of 52

Test Band = LTE Band4_ 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	3472.1800	41.45	-46.27	28.58	-71.49	-13.00	58.49	Horizontal
2	5208.2700	39.20	-45.26	31.90	-69.42	-13.00	56.42	Horizontal
3	6944.3600	37.99	-43.85	35.10	-66.02	-13.00	53.02	Horizontal
4	8680.4500	34.44	-41.62	36.46	-65.98	-13.00	52.98	Horizontal
5	10416.5400	29.31	-38.97	38.41	-66.52	-13.00	53.52	Horizontal
6	12152.6300	26.71	-37.42	38.85	-67.12	-13.00	54.12	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	42.24	-46.27	28.58	-70.70	-13.00	57.70	Vertical
2	5208.2700	39.26	-45.26	31.90	-69.36	-13.00	56.36	Vertical
3	6944.3600	38.20	-43.85	35.10	-65.81	-13.00	52.81	Vertical
4	8680.4500	35.67	-41.62	36.46	-64.75	-13.00	51.75	Vertical
5	10416.5400	28.82	-38.97	38.41	-67.01	-13.00	54.01	Vertical
6	12152.6300	26.49	-37.42	38.85	-67.34	-13.00	54.34	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 46 of 52

Test Band = 4A_5A_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	1649.1800	41.78	-45.59	28.30	-70.77	-13.00	57.77	Horizontal
2	2473.7700	41.78	-45.59	28.30	-70.77	-13.00	57.77	Horizontal
3	3298.3600	41.22	-46.45	28.48	-72.01	-13.00	59.01	Horizontal
4	3422.1800	39.68	-46.28	28.55	-73.30	-13.00	60.30	Horizontal
5	5133.2700	37.99	-45.34	31.72	-70.89	-13.00	57.89	Horizontal
6	6844.3600	37.34	-44.14	34.92	-67.14	-13.00	54.14	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	41.67	-45.59	28.30	-70.88	-13.00	57.88	Vertical
2	2473.7700	41.67	-45.59	28.30	-70.88	-13.00	57.88	Vertical
3	3298.3600	41.99	-46.45	28.48	-71.24	-13.00	58.24	Vertical
4	3422.1800	41.38	-46.28	28.55	-71.60	-13.00	58.60	Vertical
5	5133.2700	38.86	-45.34	31.72	-70.02	-13.00	57.02	Vertical
6	6844.3600	38.26	-44.14	34.92	-66.22	-13.00	53.22	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 47 of 52

Test Band = 4A_5A_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	1664.1800	41.77	-45.59	28.30	-70.78	-13.00	57.78	Horizontal
2	2496.2700	41.77	-45.59	28.30	-70.78	-13.00	57.78	Horizontal
3	3328.3600	41.75	-46.41	28.50	-71.42	-13.00	58.42	Horizontal
4	3447.1800	41.31	-46.27	28.57	-71.65	-13.00	58.65	Horizontal
5	5170.7700	38.03	-45.31	31.81	-70.72	-13.00	57.72	Horizontal
6	6894.3600	37.14	-44.10	35.01	-67.21	-13.00	54.21	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	41.37	-45.59	28.30	-71.18	-13.00	58.18	Vertical
2	2496.2700	41.37	-45.59	28.30	-71.18	-13.00	58.18	Vertical
3	3328.3600	41.28	-46.41	28.50	-71.89	-13.00	58.89	Vertical
4	3447.1800	41.39	-46.27	28.57	-71.57	-13.00	58.57	Vertical
5	5170.7700	39.08	-45.31	31.81	-69.67	-13.00	56.67	Vertical
6	6894.3600	37.76	-44.10	35.01	-66.59	-13.00	53.59	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 48 of 52

Test Band = 4A_5A_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	1679.1800	41.32	-45.59	28.30	-71.23	-13.00	58.23	Horizontal
2	2518.7700	41.32	-45.59	28.30	-71.23	-13.00	58.23	Horizontal
3	3358.3600	41.46	-46.35	28.52	-71.64	-13.00	58.64	Horizontal
4	3472.1800	41.15	-46.27	28.58	-71.79	-13.00	58.79	Horizontal
5	5208.2700	38.60	-45.26	31.90	-70.02	-13.00	57.02	Horizontal
6	6944.3600	37.15	-43.85	35.10	-66.86	-13.00	53.86	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	41.00	-45.59	28.30	-71.55	-13.00	58.55	Vertical
2	2518.7700	41.00	-45.59	28.30	-71.55	-13.00	58.55	Vertical
3	3358.3600	41.25	-46.35	28.52	-71.85	-13.00	58.85	Vertical
4	3472.1800	41.64	-46.27	28.58	-71.30	-13.00	58.30	Vertical
5	5208.2700	38.60	-45.26	31.90	-70.02	-13.00	57.02	Vertical
6	6944.3600	36.92	-43.85	35.10	-67.09	-13.00	54.09	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 49 of 52

Test Band = 4A_7A_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	3422.1800	41.75	-46.28	28.55	-71.23	-25.00	46.23	Horizontal
2	5002.1800	40.08	-45.63	31.41	-69.41	-25.00	44.41	Horizontal
3	5133.2700	39.18	-45.34	31.72	-69.70	-25.00	44.70	Horizontal
4	6844.3600	38.78	-44.14	34.92	-65.70	-25.00	40.70	Horizontal
5	7503.2700	37.67	-43.13	36.60	-64.12	-25.00	39.12	Horizontal
6	10004.3600	31.55	-39.23	38.20	-64.74	-25.00	39.74	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	41.54	-46.28	28.55	-71.44	-25.00	46.44	Vertical
2	5002.1800	41.66	-45.63	31.41	-67.83	-25.00	42.83	Vertical
3	5133.2700	39.29	-45.34	31.72	-69.59	-25.00	44.59	Vertical
4	6844.3600	39.07	-44.14	34.92	-65.41	-25.00	40.41	Vertical
5	7503.2700	38.51	-43.13	36.60	-63.28	-25.00	38.28	Vertical
6	10004.3600	31.48	-39.23	38.20	-64.81	-25.00	39.81	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 50 of 52

Test Band = 4A_7A_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	3447.1800	42.01	-46.27	28.57	-70.95	-25.00	45.95	Horizontal
2	5052.1800	40.58	-45.50	31.53	-68.65	-25.00	43.65	Horizontal
3	5170.7700	39.78	-45.31	31.81	-68.98	-25.00	43.98	Horizontal
4	6894.3600	39.47	-44.10	35.01	-64.88	-25.00	39.88	Horizontal
5	7578.2700	38.41	-42.98	36.63	-63.19	-25.00	38.19	Horizontal
6	10104.3600	31.66	-39.14	38.25	-64.48	-25.00	39.48	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	41.78	-46.27	28.57	-71.18	-25.00	46.18	Vertical
2	5052.1800	40.61	-45.50	31.53	-68.62	-25.00	43.62	Vertical
3	5170.7700	40.30	-45.31	31.81	-68.46	-25.00	43.46	Vertical
4	6894.3600	38.33	-44.10	35.01	-66.02	-25.00	41.02	Vertical
5	7578.2700	37.56	-42.98	36.63	-64.04	-25.00	39.04	Vertical
6	10104.3600	31.94	-39.14	38.25	-64.20	-25.00	39.20	Vertical



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 51 of 52

Test Band = 4A_7A_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	3472.1800	42.04	-46.27	28.58	-70.90	-25.00	45.90	Horizontal
2	5102.1800	38.88	-45.37	31.65	-70.10	-25.00	45.10	Horizontal
3	5208.2700	40.05	-45.26	31.90	-68.57	-25.00	43.57	Horizontal
4	6944.3600	39.51	-43.86	35.10	-64.51	-25.00	39.51	Horizontal
5	7653.2700	38.15	-43.03	36.66	-63.48	-25.00	38.48	Horizontal
6	10204.3600	31.69	-39.48	38.30	-64.75	-25.00	39.75	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	43.03	-46.27	28.58	-69.91	-25.00	44.91	Vertical
2	5102.1800	39.80	-45.37	31.65	-69.18	-25.00	44.18	Vertical
3	5208.2700	40.60	-45.26	31.90	-68.02	-25.00	43.02	Vertical
4	6944.3600	38.83	-43.86	35.10	-65.19	-25.00	40.19	Vertical
5	7653.2700	38.00	-43.03	36.66	-63.63	-25.00	38.63	Vertical
6	10204.3600	31.95	-39.48	38.30	-64.49	-25.00	39.49	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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Rev.: 01

Page: 52 of 52

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	-0.60	-0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-2.00	-0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.60	-0.000346	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-0.30	-0.000173	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.70	-0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.60	-0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.20	-0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.40	-0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.10	-0.000058	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.00	-0.000577	PASS

---End of Attachment---



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