

Report No.: SEWM2306000195RG01

Rev.: 01

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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.78	19.48	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.92	19.62	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.77	19.47	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.91	18.61	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.77	19.47	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.93	19.63	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.75	19.45	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.89	18.59	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.77	19.47	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.88	19.58	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.77	19.47	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.89	18.59	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.95	18.65	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.15	18.85	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.95	18.65	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.96	17.66	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.05	18.75	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.13	18.83	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.93	18.63	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.98	17.68	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.94	18.64	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.13	18.83	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.07	18.77	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.90	17.60	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.99	17.69	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.07	17.77	30.00	PASS



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Band4	1.4MHz	64QAM	19957	1RB#5	20.94	17.64	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	19.86	16.56	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.89	17.59	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.08	17.78	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.98	17.68	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.85	16.55	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.91	17.61	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.07	17.77	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.86	17.56	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.83	16.53	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.79	19.49	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.78	19.48	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.83	19.53	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.85	18.55	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.81	19.51	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.80	19.50	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.81	19.51	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.88	18.58	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.77	19.47	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.79	19.49	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.79	19.49	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.84	18.54	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.07	18.77	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.08	18.78	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.05	18.75	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.85	17.55	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.03	18.73	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.95	18.65	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.08	18.78	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.85	17.55	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.09	18.79	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.02	18.72	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.00	18.70	30.00	PASS



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Band4	3MHz	16QAM	20385	15RB#0	20.83	17.53	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.99	17.69	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.92	17.62	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.97	17.67	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.82	16.52	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.98	17.68	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.97	17.67	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.91	17.61	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.82	16.52	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.91	17.61	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.98	17.68	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.96	17.66	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.77	16.47	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.83	19.53	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.07	19.77	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.85	19.55	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.93	18.63	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.83	19.53	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.10	19.80	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.84	19.54	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.93	18.63	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.81	19.51	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.04	19.74	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.81	19.51	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.94	18.64	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.09	18.79	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.24	18.94	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.07	18.77	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.91	17.61	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.11	18.81	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.35	19.05	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.10	18.80	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.91	17.61	30.00	PASS



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Band4	5MHz	16QAM	20375	1RB#0	21.98	18.68	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.20	18.90	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.04	18.74	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.89	17.59	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.06	17.76	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.16	17.86	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.98	17.68	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.88	16.58	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.93	17.63	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.15	17.85	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.96	17.66	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.89	16.59	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.93	17.63	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.21	17.91	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.98	17.68	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.88	16.58	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.88	19.58	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.03	19.73	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.94	19.64	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.98	18.68	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.90	19.60	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.03	19.73	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.92	19.62	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.99	18.69	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.91	19.61	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.97	19.67	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.92	19.62	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.97	18.67	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.06	18.76	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.34	19.04	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.17	18.87	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.97	17.67	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.23	18.93	30.00	PASS



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Band4	10MHz	16QAM	20175	1RB#24	22.31	19.01	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.18	18.88	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.95	17.65	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.18	18.88	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.28	18.98	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.10	18.80	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.94	17.64	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.09	17.79	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.11	17.81	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.06	17.76	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.96	16.66	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.01	17.71	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.20	17.90	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.10	17.80	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.96	16.66	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.08	17.78	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.18	17.88	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.08	17.78	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.91	16.61	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.74	19.44	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.97	19.67	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.87	19.57	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.97	18.67	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.80	19.50	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.94	19.64	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.84	19.54	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.98	18.68	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.73	19.43	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.93	19.63	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.84	19.54	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.98	18.68	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.01	18.71	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.10	18.80	30.00	PASS



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Band4	15MHz	16QAM	20025	1RB#74	22.15	18.85	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.93	17.63	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.10	18.80	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.23	18.93	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.10	18.80	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.94	17.64	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.03	18.73	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.21	18.91	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.13	18.83	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.96	17.66	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.94	17.64	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.12	17.82	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.01	17.71	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.90	16.60	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.95	17.65	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.15	17.85	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.95	17.65	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.92	16.62	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.86	17.56	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.03	17.73	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.94	17.64	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.91	16.61	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.55	19.25	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.04	19.74	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.66	19.36	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.95	18.65	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.57	19.27	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.04	19.74	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.66	19.36	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.99	18.69	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.58	19.28	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.05	19.75	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.70	19.40	30.00	PASS



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Band4	20MHz	QPSK	20300	100RB#0	21.97	18.67	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.85	18.55	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.23	18.93	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.87	18.57	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.93	17.63	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.76	18.46	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.24	18.94	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.97	18.67	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.96	17.66	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.91	18.61	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.32	19.02	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.88	18.58	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.93	17.63	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.75	17.45	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.21	17.91	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.89	17.59	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.92	16.62	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.74	17.44	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.25	17.95	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.85	17.55	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.94	16.64	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.69	17.39	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.20	17.90	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.85	17.55	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.93	16.63	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	5.22	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.22	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.18	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.94	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.00	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.00	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.00	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	5.94	13	PASS



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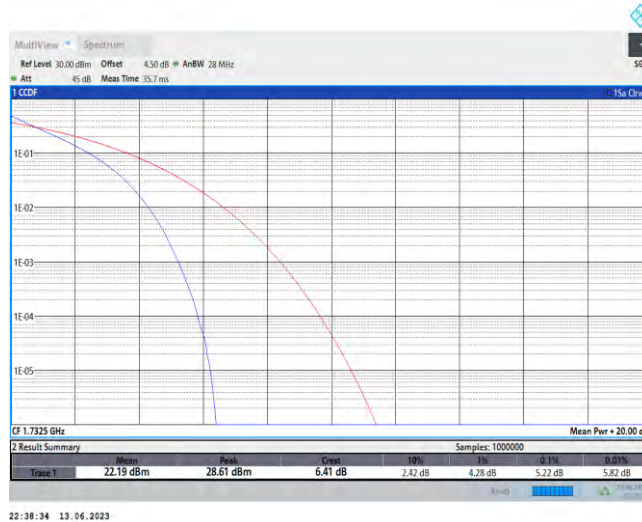
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Test Graphs

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



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



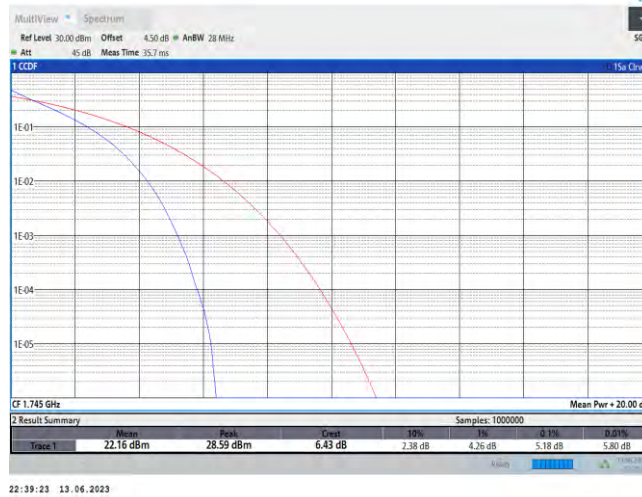
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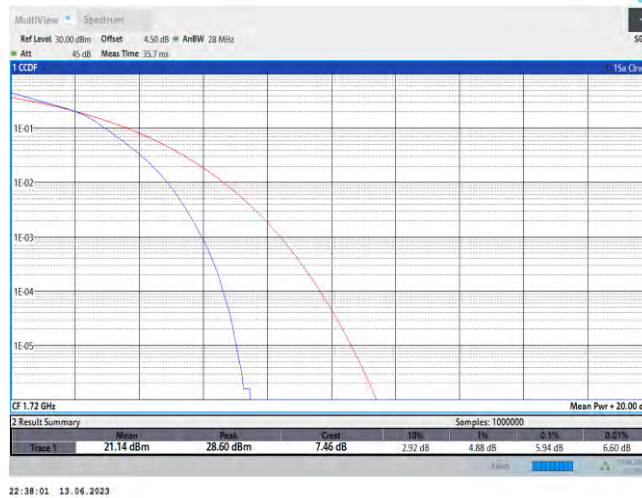
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Band4-20MHz-QPSK-20300-100RB#0



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



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



22:38:50 13.06.2023

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



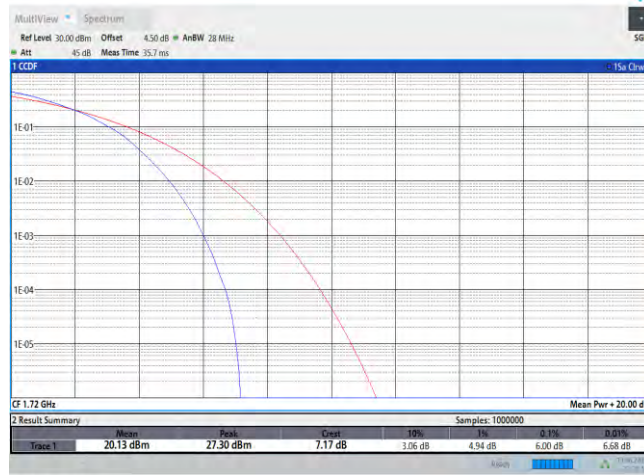
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Band4-20MHz-64QAM-20050-100RB#0



22:38:17 13.06.2023

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



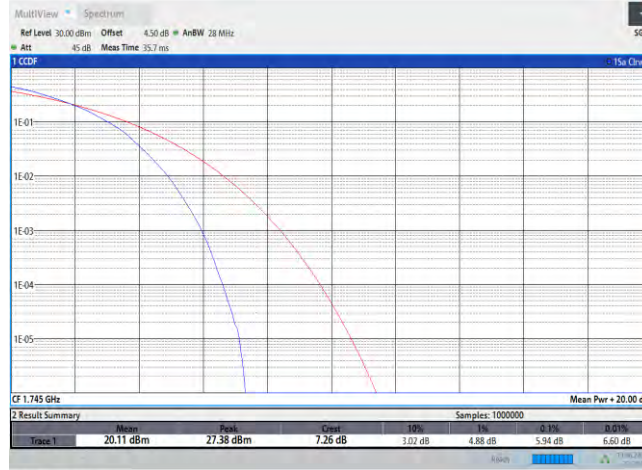
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Band4-20MHz-64QAM-20300-100RB#0



22:39:55 13.06.2023



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS



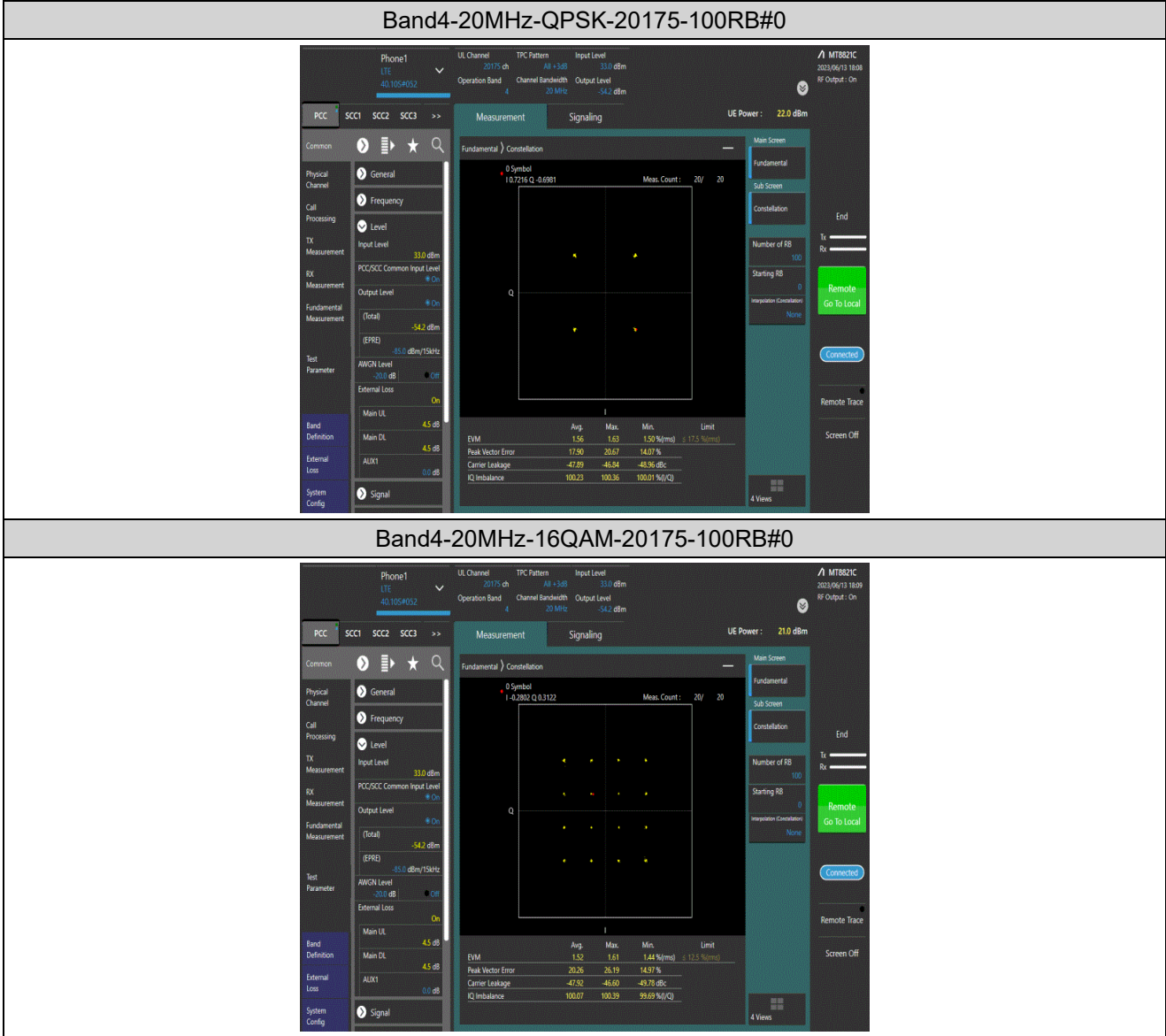
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Test Graphs

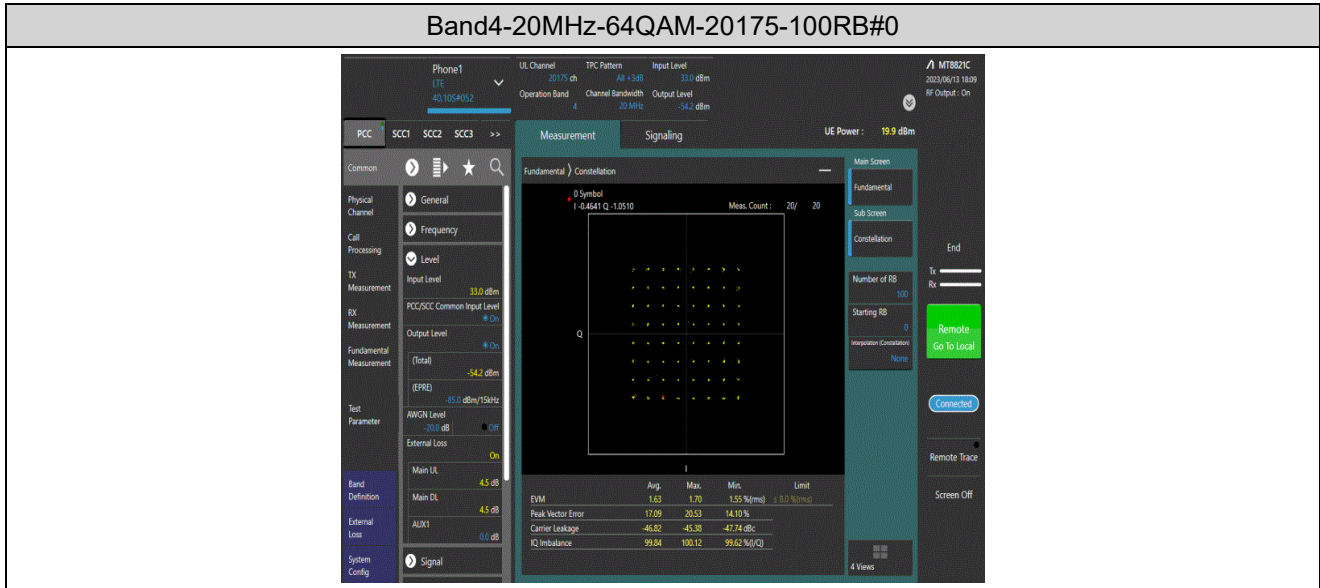


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.084	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.084	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.085	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.096	1.30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.096	1.32	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.096	1.31	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.096	1.32	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.684	2.88	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.687	2.90	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.687	2.91	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.91	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.90	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.680	2.90	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.683	2.90	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.683	2.89	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.680	2.90	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.465	4.82	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.463	4.83	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.81	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.462	4.84	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.465	4.86	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.466	4.84	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.469	4.85	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.471	4.84	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.473	4.86	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.928	9.58	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.918	9.58	PASS



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Band4	10MHz	QPSK	20350	50RB#0	8.922	9.52	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.913	9.56	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.916	9.58	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.915	9.60	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.928	9.60	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.923	9.62	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.924	9.62	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.453	14.70	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.471	14.61	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.474	14.58	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.443	14.67	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.438	14.67	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.441	14.73	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.427	14.64	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.437	14.76	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.428	14.76	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.920	19.40	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.897	19.28	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.933	19.28	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.883	19.32	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.913	19.32	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.873	19.40	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.865	19.28	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.895	19.32	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.894	19.72	PASS



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Test Graphs

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



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

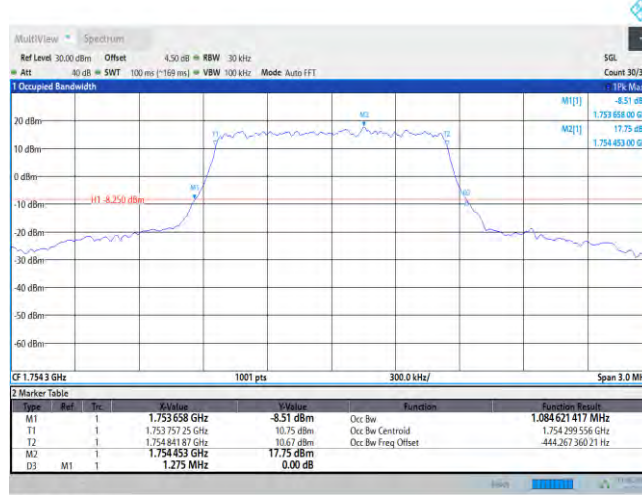


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Band4-1.4MHz-QPSK-20393-6RB#0



21:32:17 13.06.2023

Band4-1.4MHz-16QAM-19957-6RB#0



21:30:52 13.06.2023



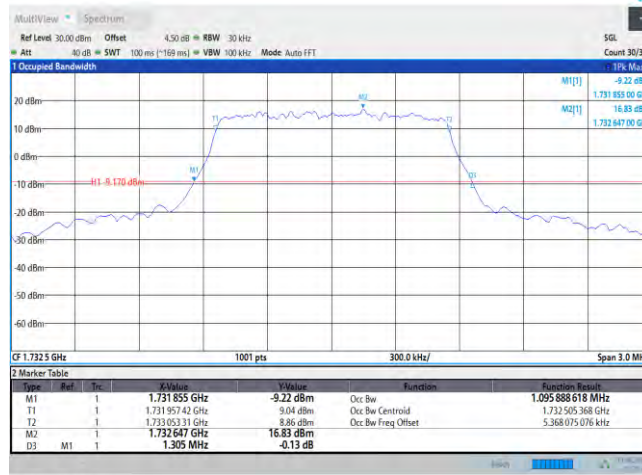
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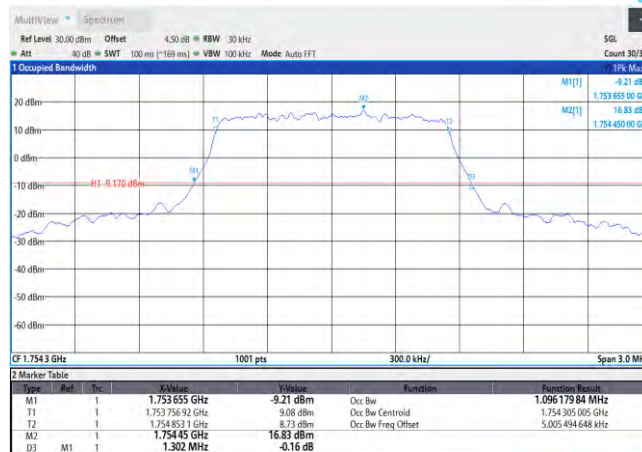
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Band4-1.4MHz-16QAM-20175-6RB#0



21:31:43 13.06.2023

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



21:32:34 13.06.2023



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Band4-1.4MHz-64QAM-19957-6RB#0



21:31:09 13.06.2023

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



21:32:00 13.06.2023



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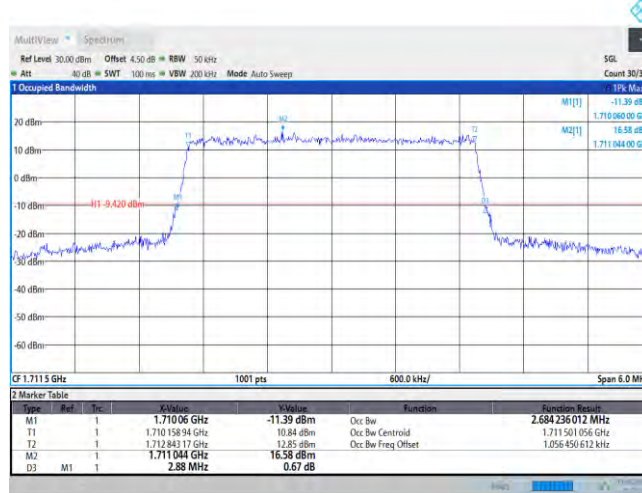
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21:32:52 13.06.2023

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



21:33:29 13.06.2023



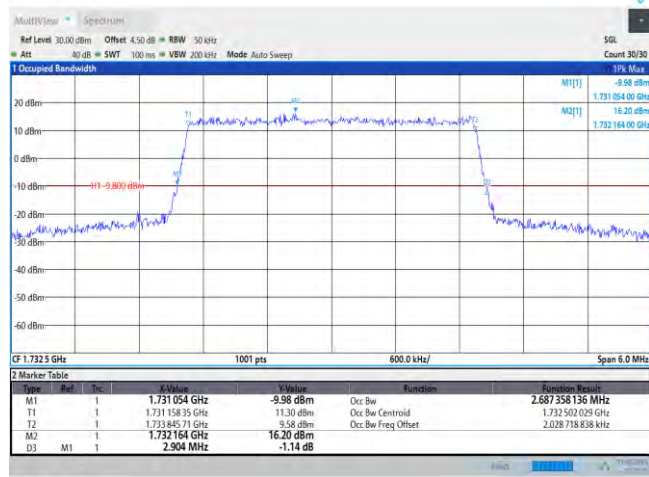
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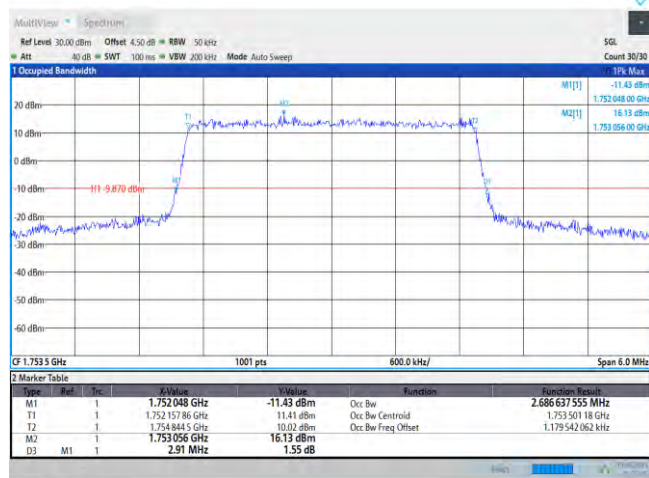
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Band4-3MHz-QPSK-20175-15RB#0



21:34:17 13.06.2023

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



21:35:05 13.06.2023



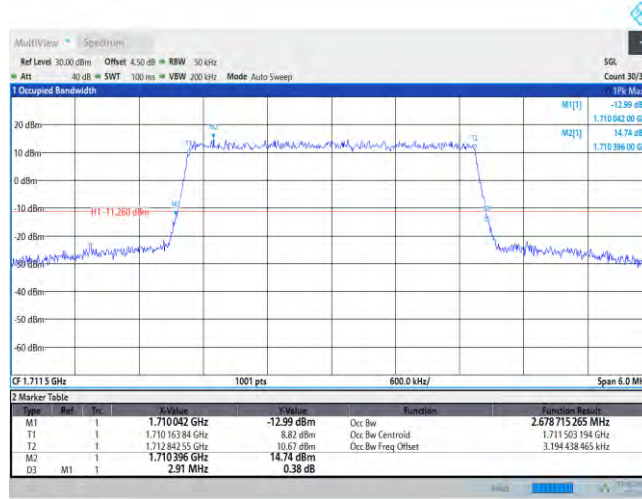
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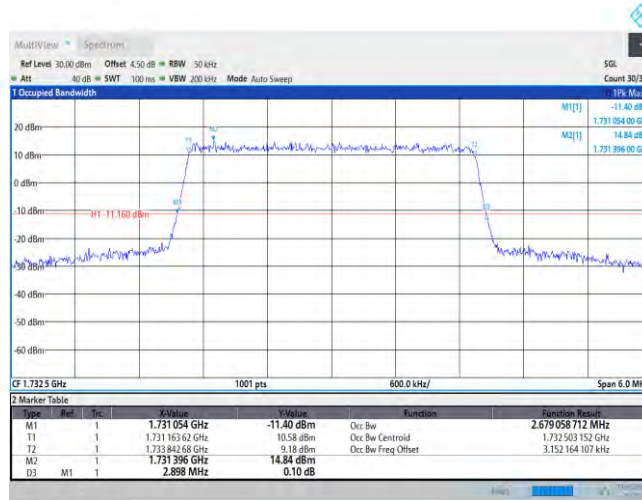
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Band4-3MHz-16QAM-19965-15RB#0



21:33:45 13.06.2023

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



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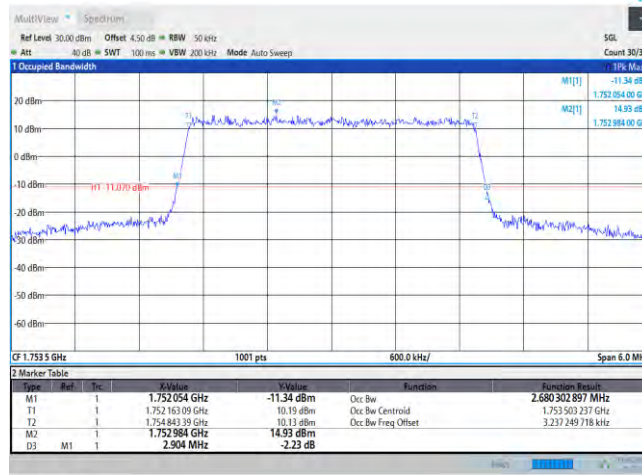
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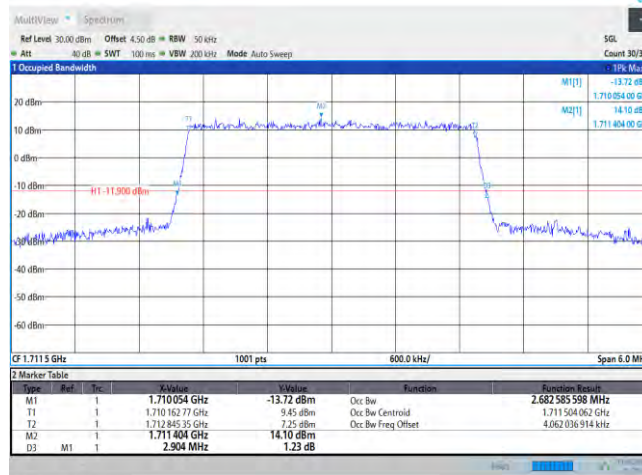
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Band4-3MHz-16QAM-20385-15RB#0



21:35:21 13.06.2023

Band4-3MHz-64QAM-19965-15RB#0



21:34:01 13.06.2023



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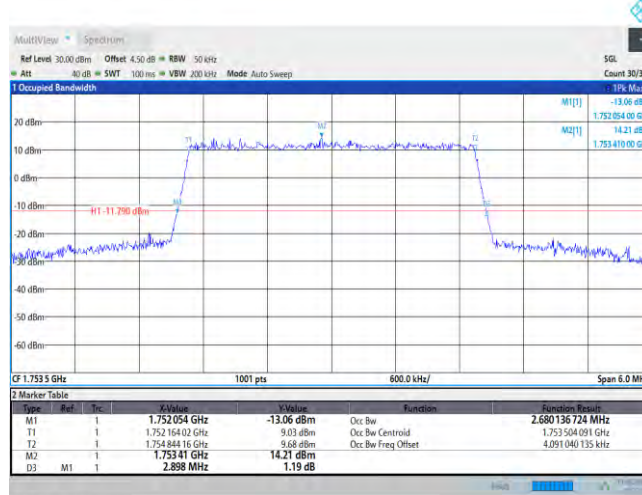
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Band4-3MHz-64QAM-20175-15RB#0



21:34:49 13.06.2023

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



21:35:37 13.06.2023



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



21:36:21 13.06.2023

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



21:37:31 13.06.2023



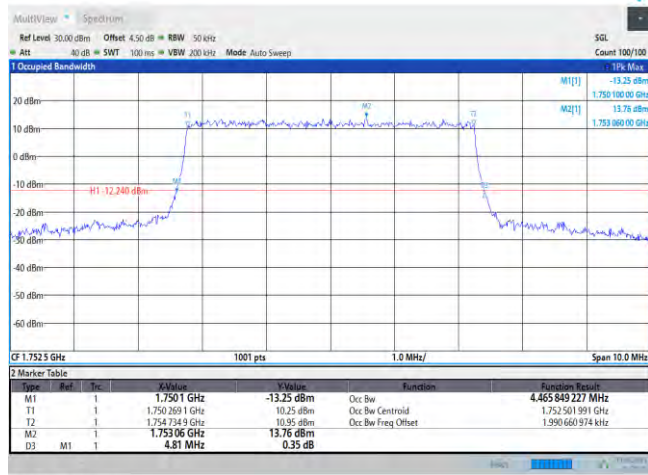
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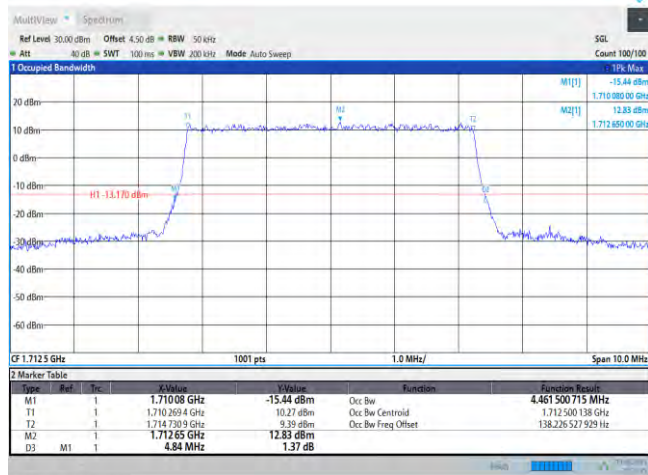
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Band4-5MHz-QPSK-20375-25RB#0



21:38:40 13.06.2023

Band4-5MHz-16QAM-19975-25RB#0



21:36:44 13.06.2023

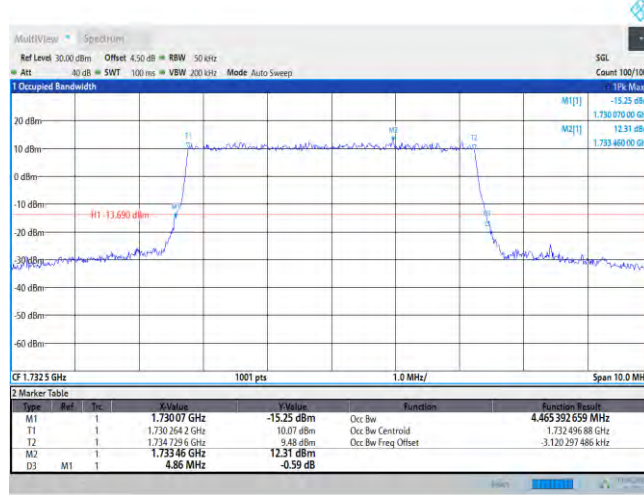


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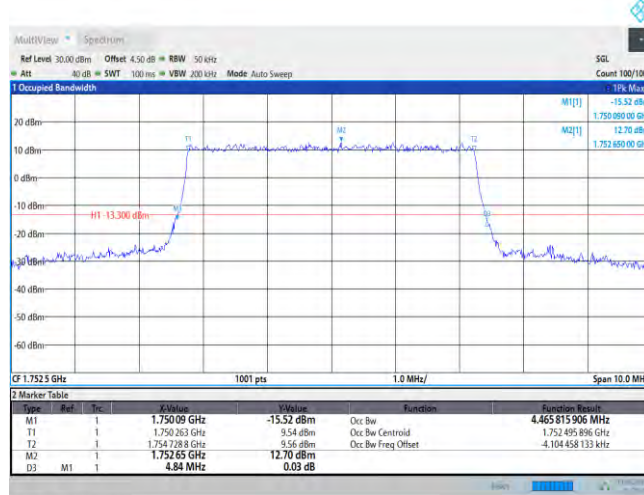
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Band4-5MHz-16QAM-20175-25RB#0



21:37:54 13.06.2023

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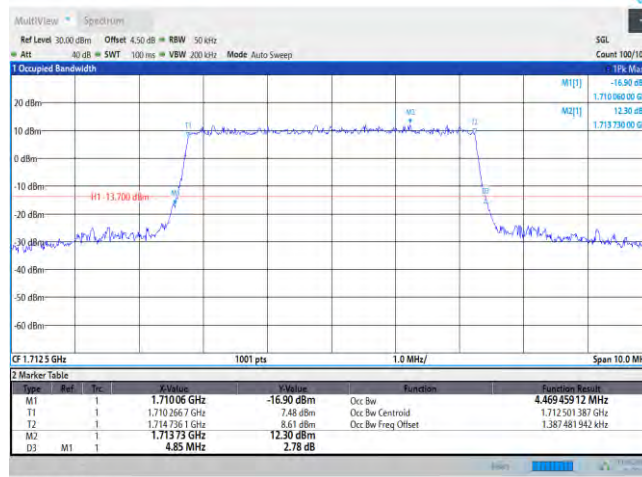
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Band4-5MHz-64QAM-19975-25RB#0



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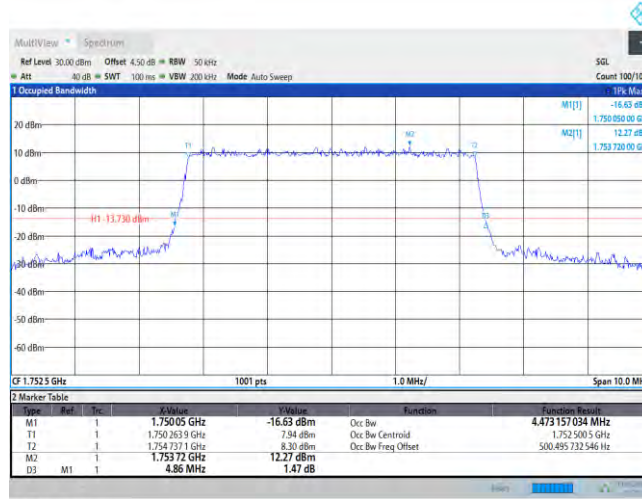
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Band4-5MHz-64QAM-20375-25RB#0



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



21:40:03 13.06.2023



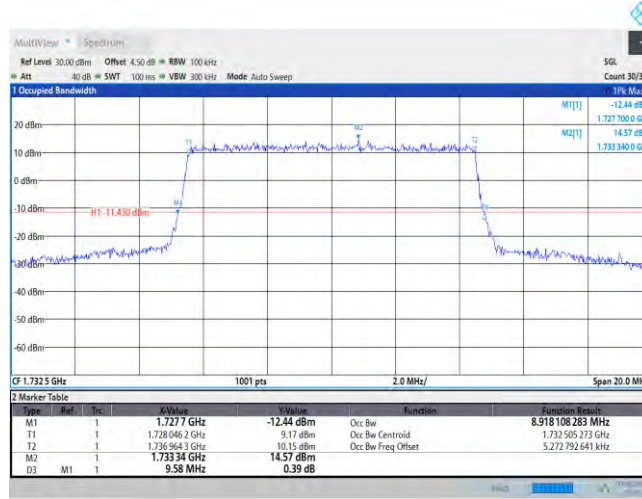
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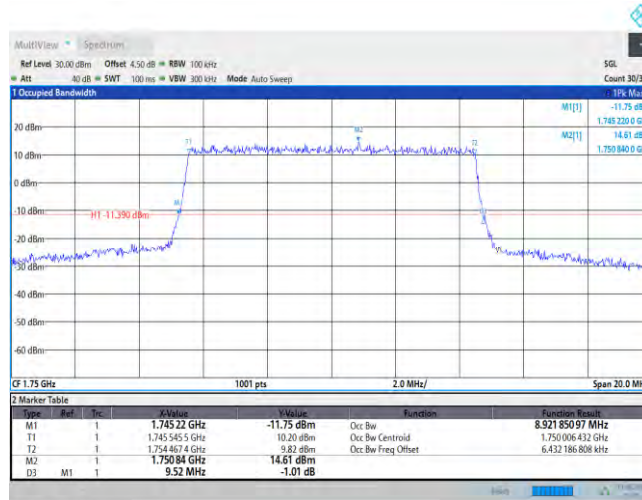
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Band4-10MHz-QPSK-20175-50RB#0



21:40:52 13.06.2023

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



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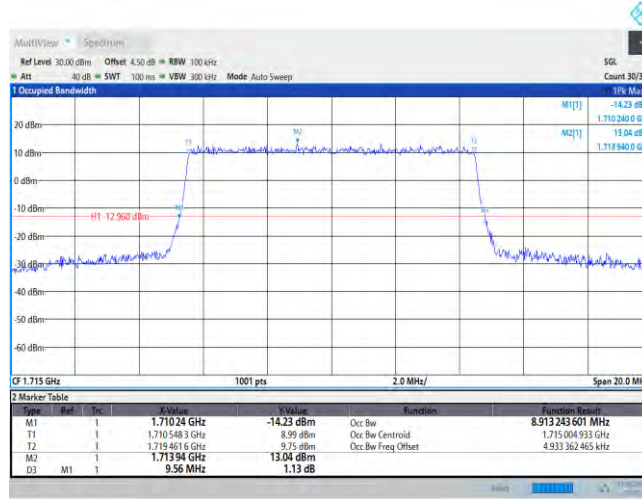
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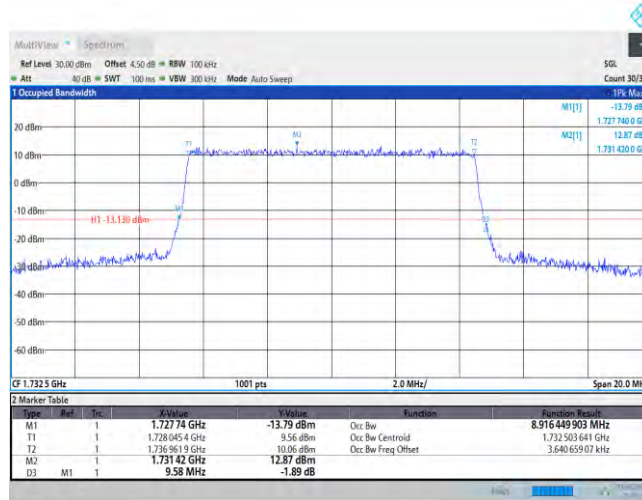
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Band4-10MHz-16QAM-20000-50RB#0



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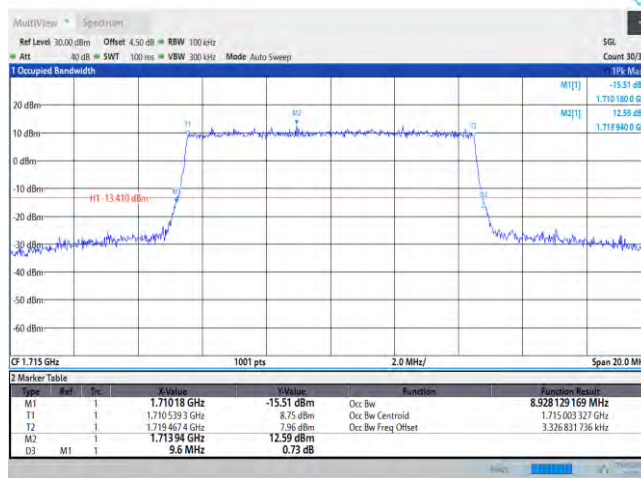
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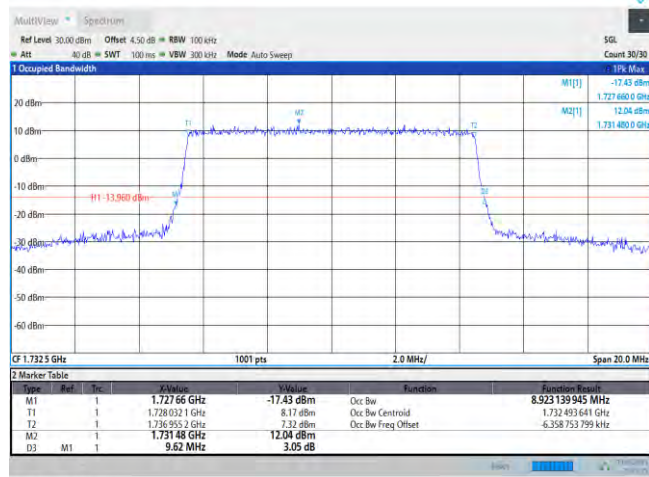


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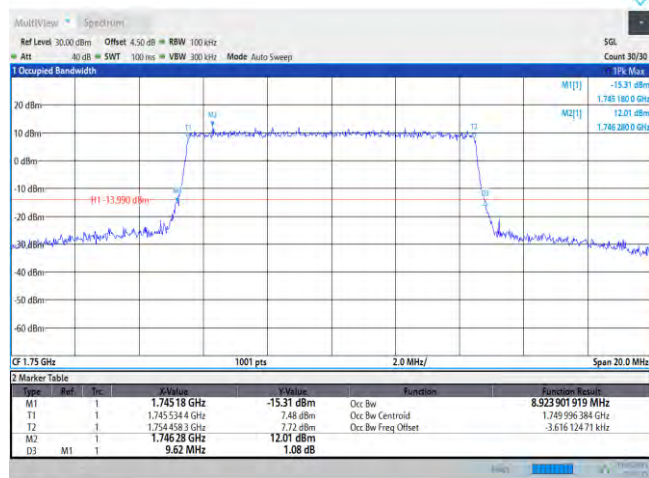
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Band4-10MHz-64QAM-20350-50RB#0



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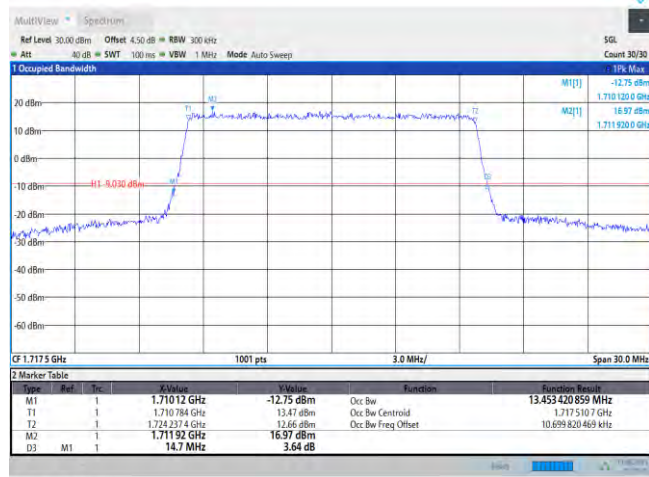


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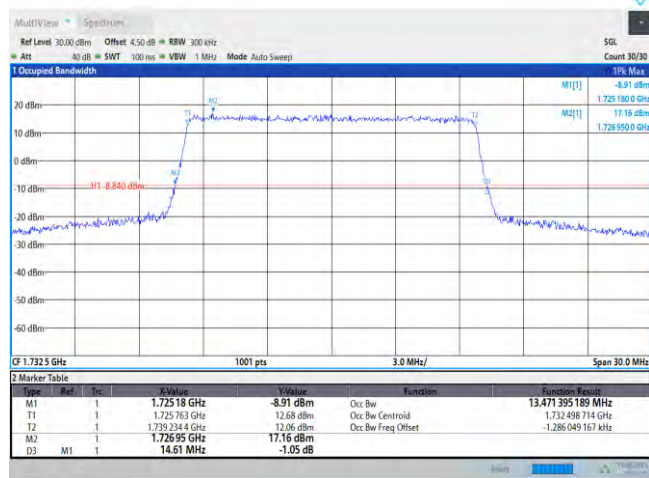
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Band4-15MHz-QPSK-20025-75RB#0



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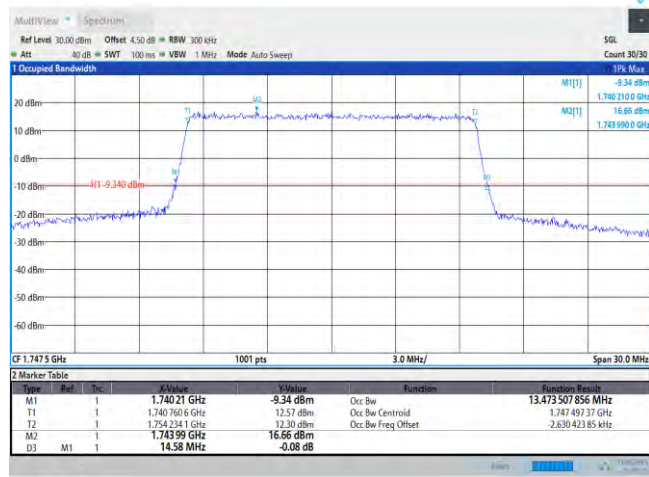
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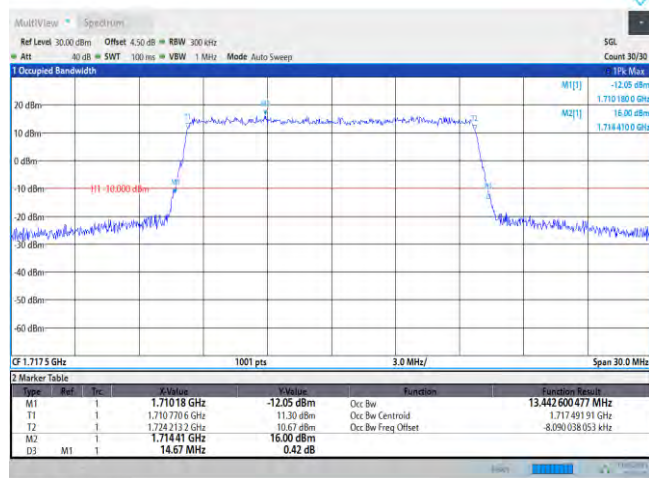
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Band4-15MHz-16QAM-20025-75RB#0



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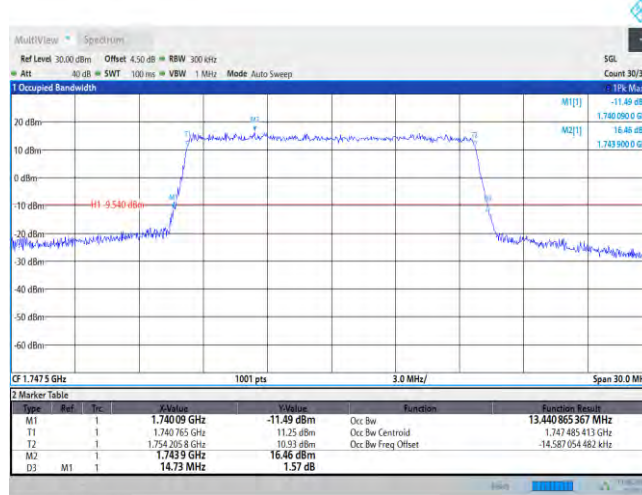
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21:44:41 13.06.2023



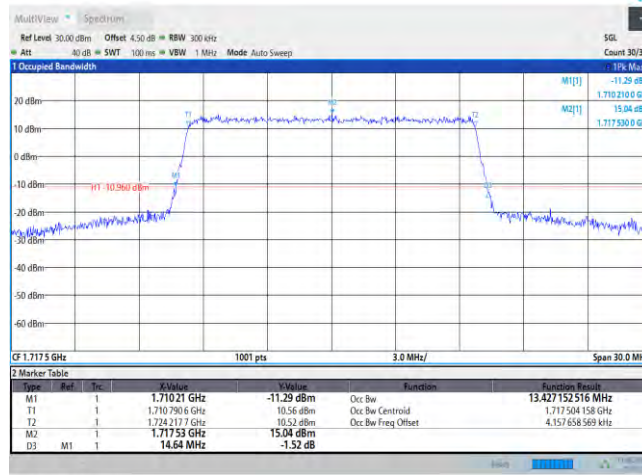
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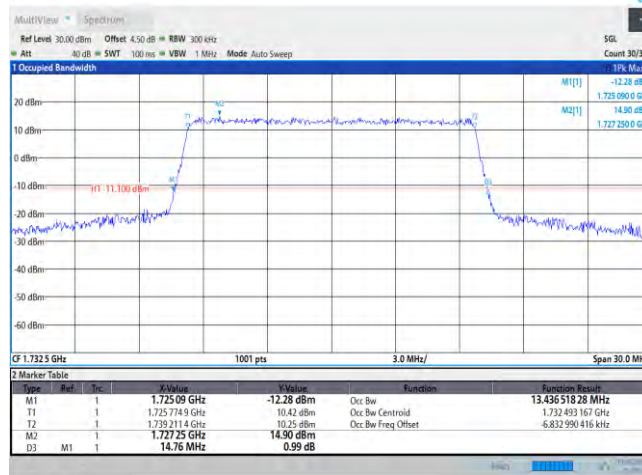
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Band4-15MHz-64QAM-20025-75RB#0



21:43:21 13.06.2023

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



21:44:09 13.06.2023

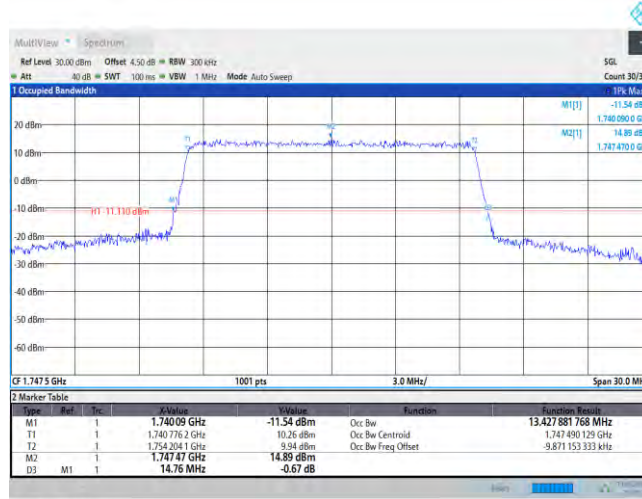


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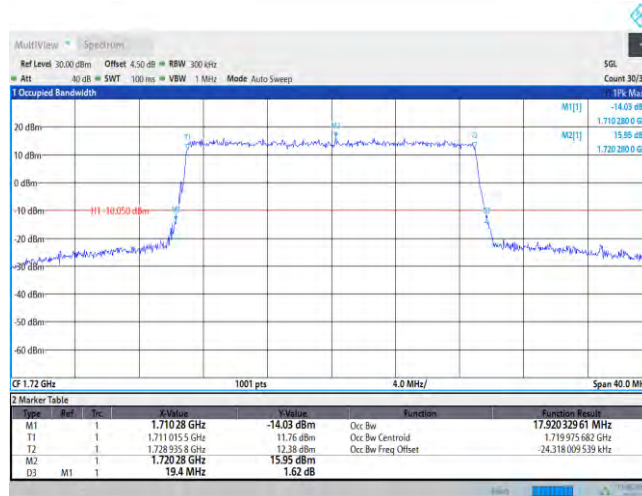
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Band4-15MHz-64QAM-20325-75RB#0



21:44:57 13.06.2023

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



21:45:34 13.06.2023



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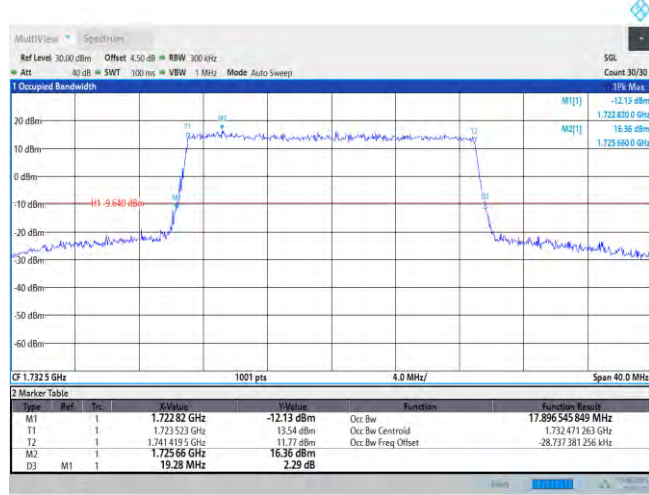
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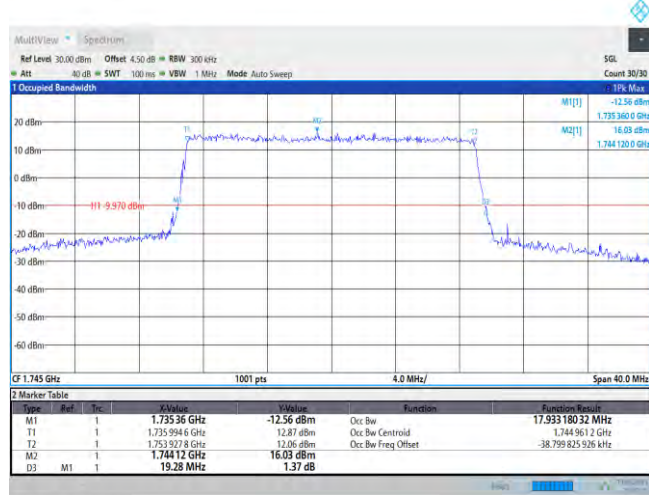
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Band4-20MHz-QPSK-20175-100RB#0



21:46:22 13.06.2023

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



21:47:11 13.06.2023



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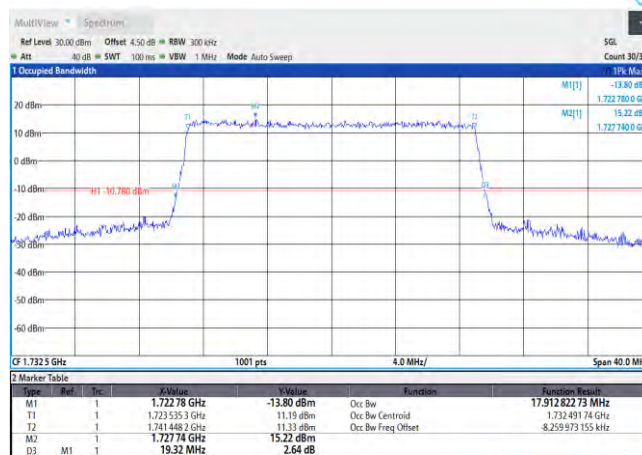
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Band4-20MHz-16QAM-20050-100RB#0



21:45:50 13.06.2023

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



21:46:38 13.06.2023



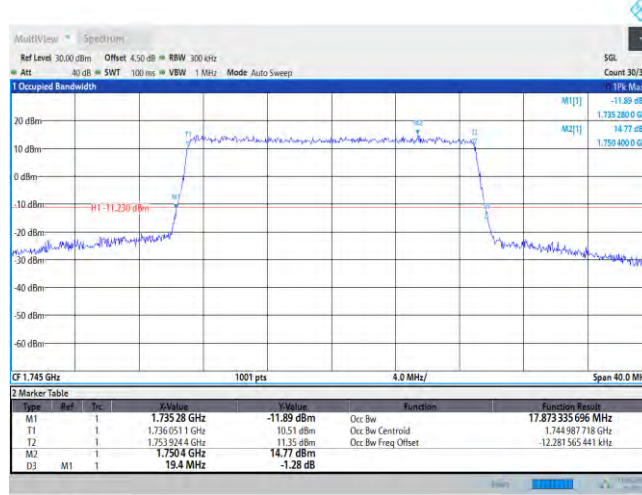
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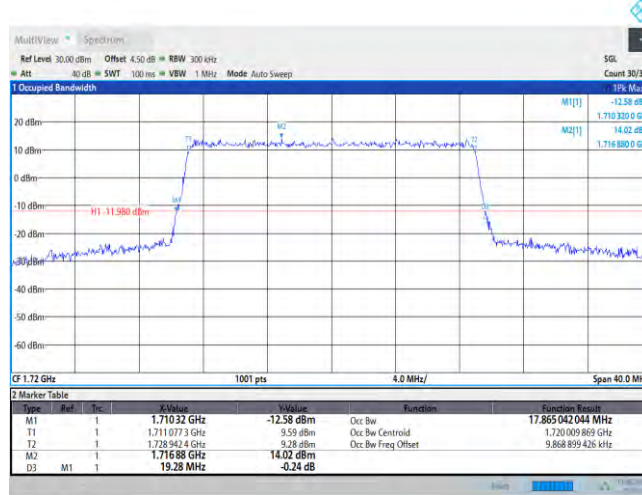
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Band4-20MHz-16QAM-20300-100RB#0



21:47:27 13.06.2023

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



21:46:06 13.06.2023

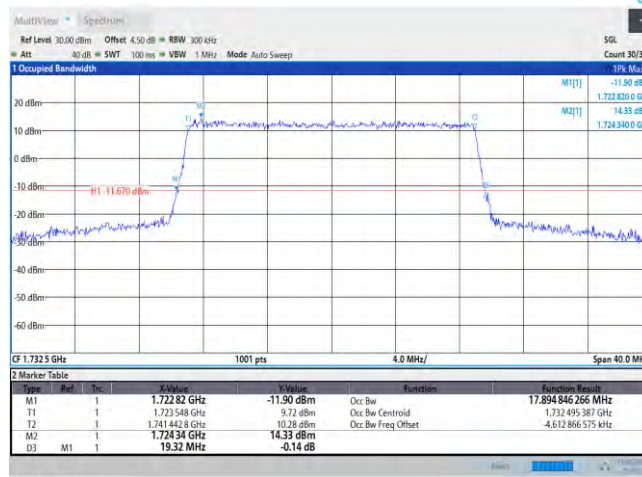


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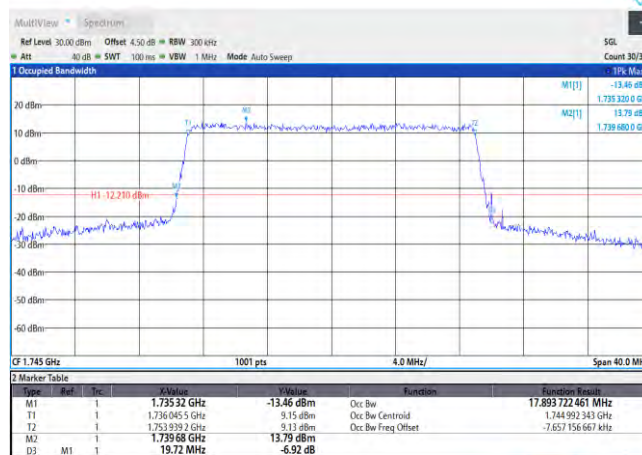
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Band4-20MHz-64QAM-20175-100RB#0



21:46:54 13.06.2023

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



21:47:43 13.06.2023



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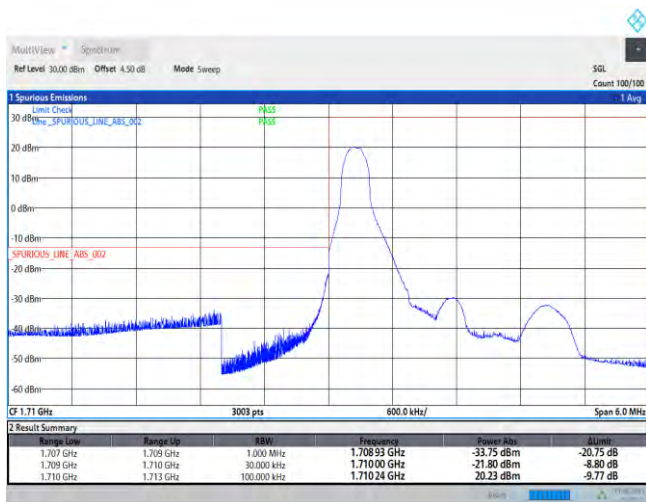
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Band Edge

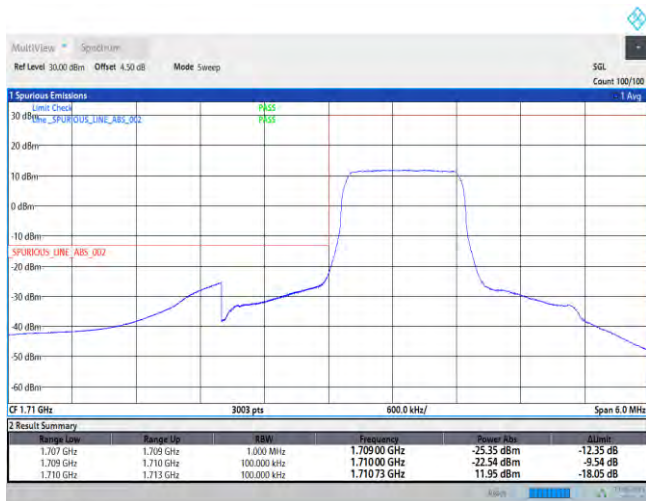
Test Graphs

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



21:49:52 13.06.2023

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



21:51:39 13.06.2023

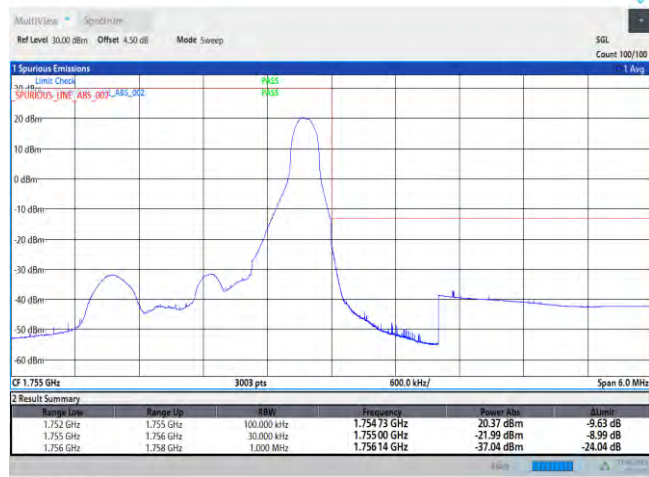


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Band4-1.4MHz-QPSK-20393-1RB#5



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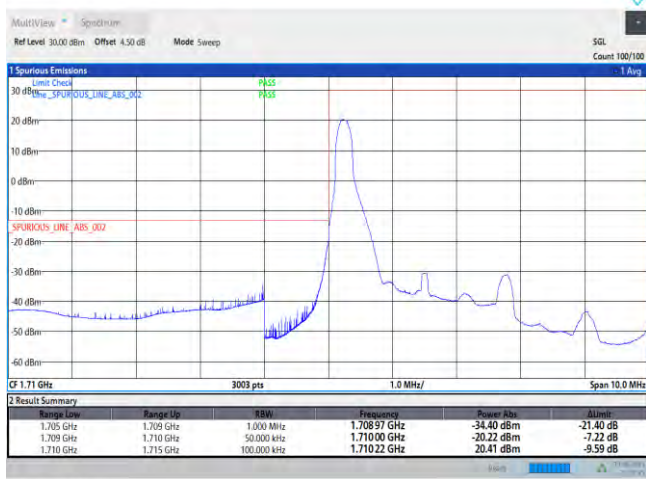


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Band4-3MHz-QPSK-19965-1RB#0



21:57:42 13.06.2023

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

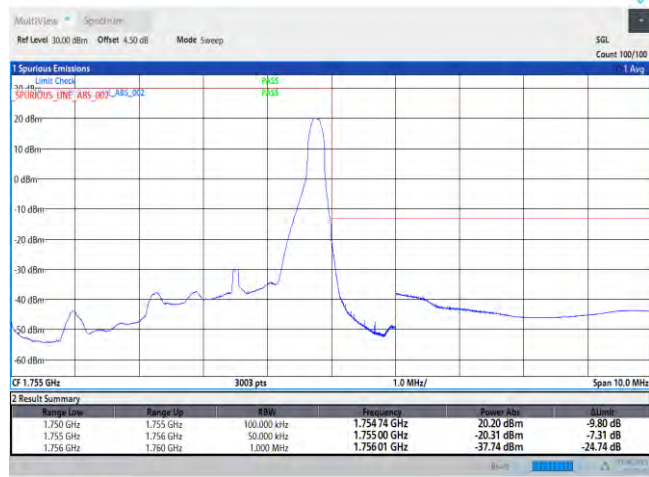


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Band4-3MHz-QPSK-20385-1RB#14



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



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



22:05:36 13.06.2023

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



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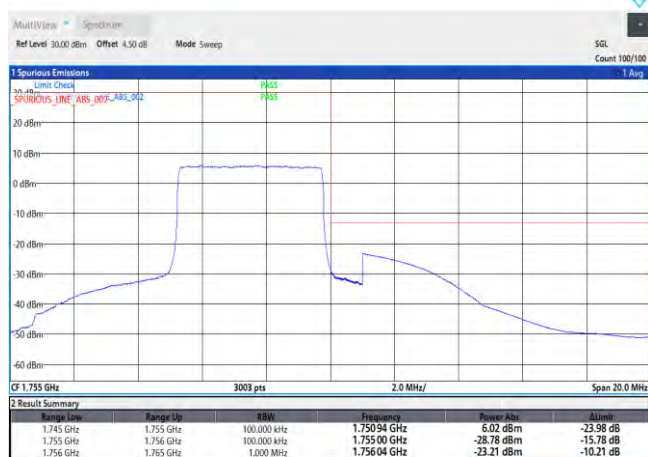
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Band4-5MHz-QPSK-20375-1RB#24



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

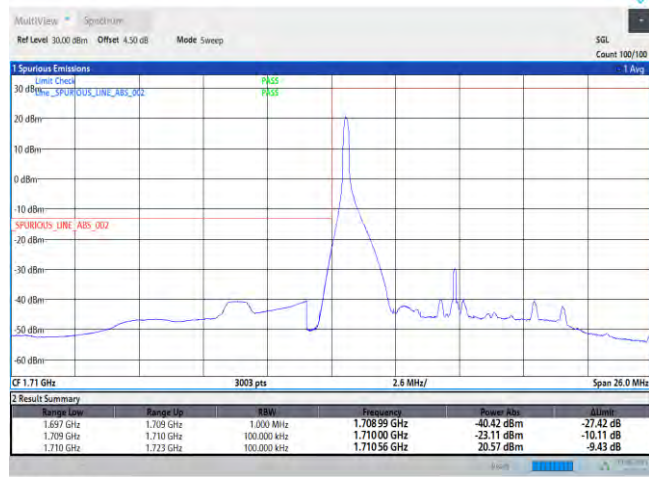


22:11:17 13.06.2023



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



22:13:26 13.06.2023

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



22:15:11 13.06.2023



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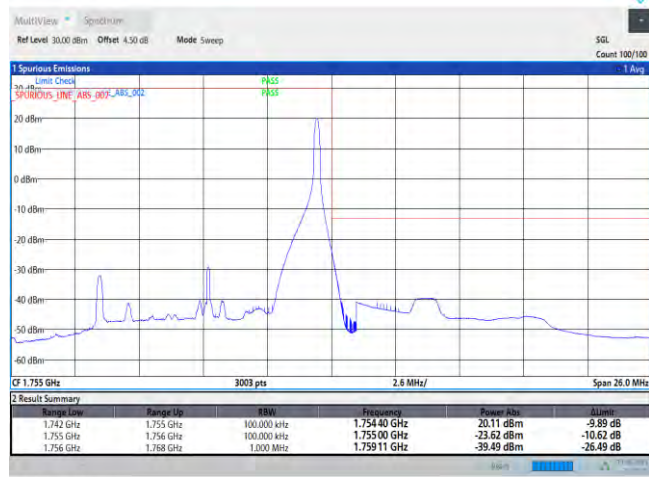
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(Wireless Laboratory)

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



22:17:20 13.06.2023

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



22:19:04 13.06.2023



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



22:21:13 13. 06. 2023

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



22:22:57 13. 06. 2023

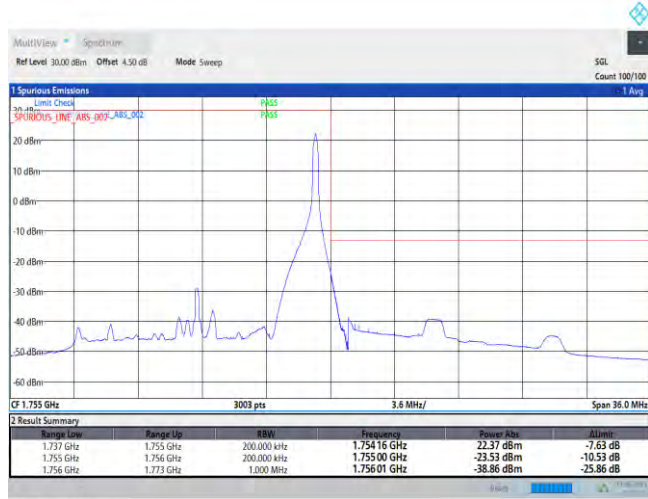


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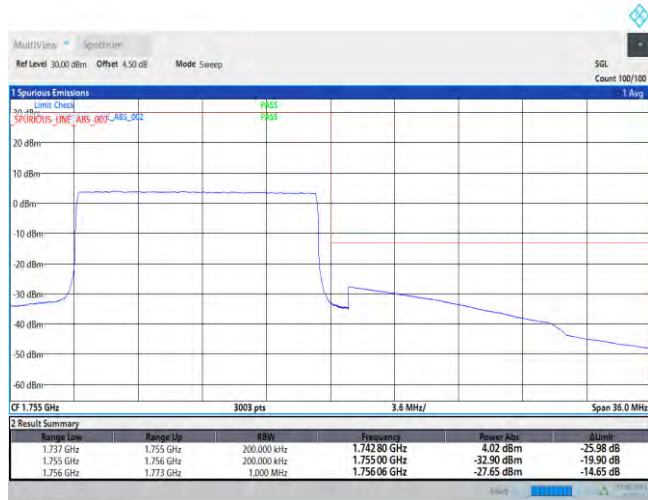
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Band4-15MHz-QPSK-20325-1RB#74



22:25:12 13.06.2023

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



22:26:56 13.06.2023



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



22:29:06 13.06.2023

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



22:30:50 13.06.2023



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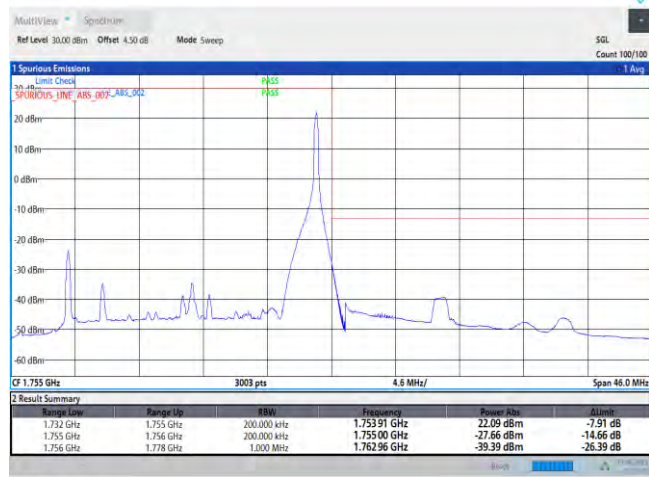
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Band4-20MHz-QPSK-20300-1RB#99



22:33:05 13.06.2023

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



22:34:49 13.06.2023



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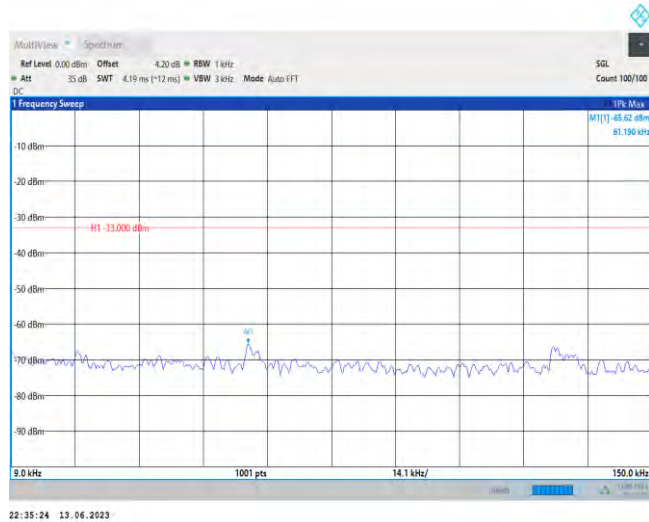
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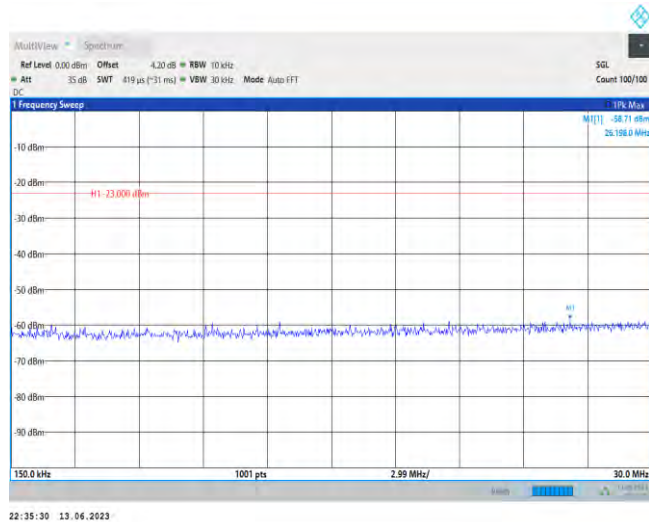
Conducted Spurious Emission

Test Graphs

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



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

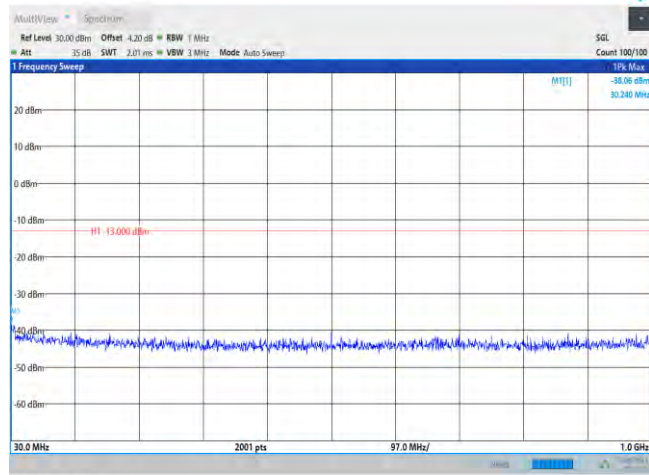


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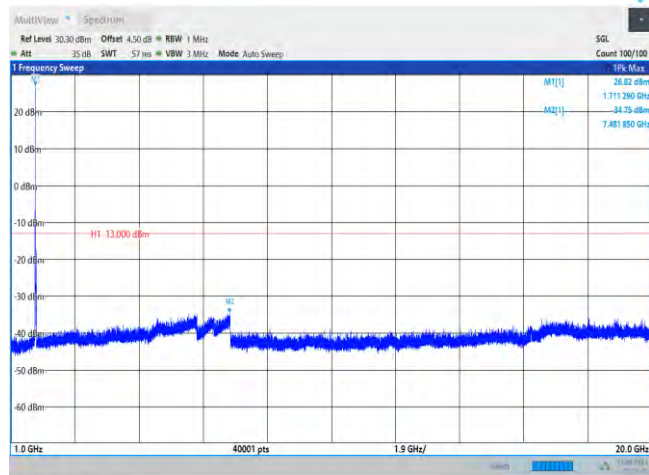
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



22:35:34 13.06.2023

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



22:35:49 13.06.2023

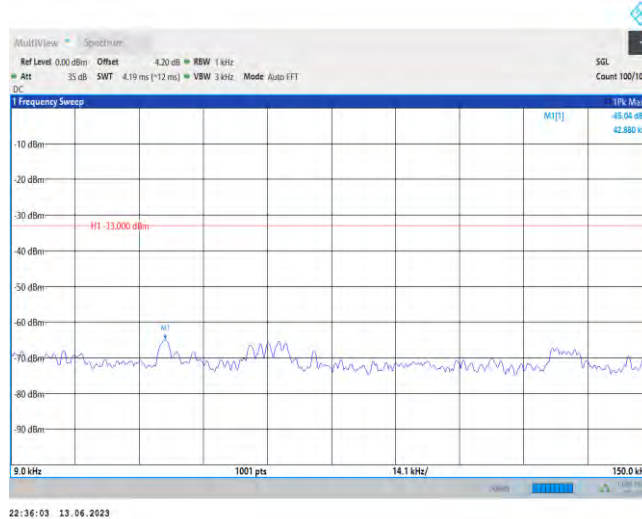


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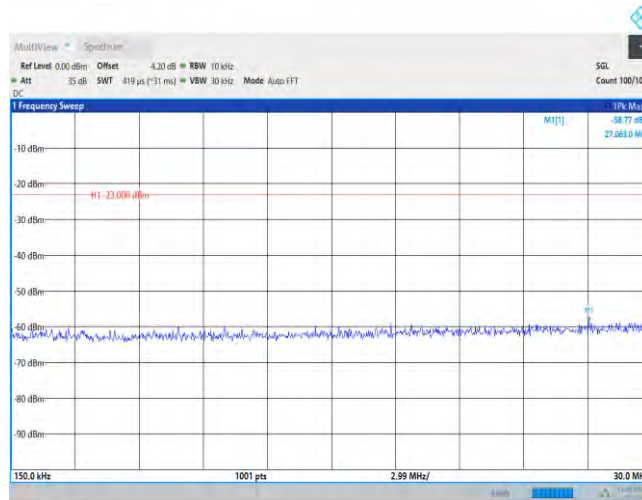
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



22:36:03 13.06.2023

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



22:36:09 13.06.2023



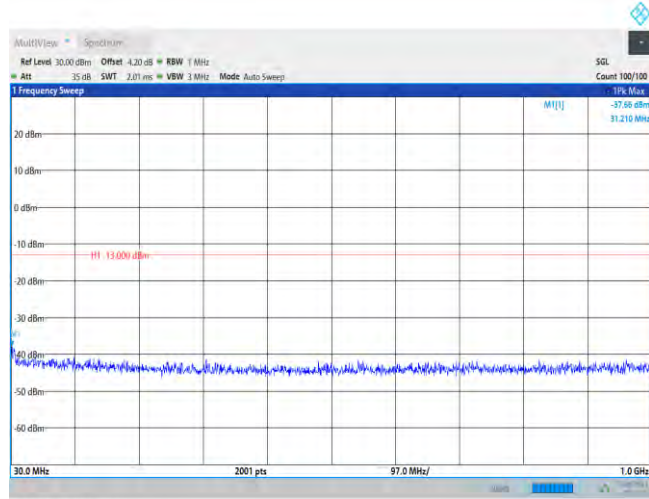
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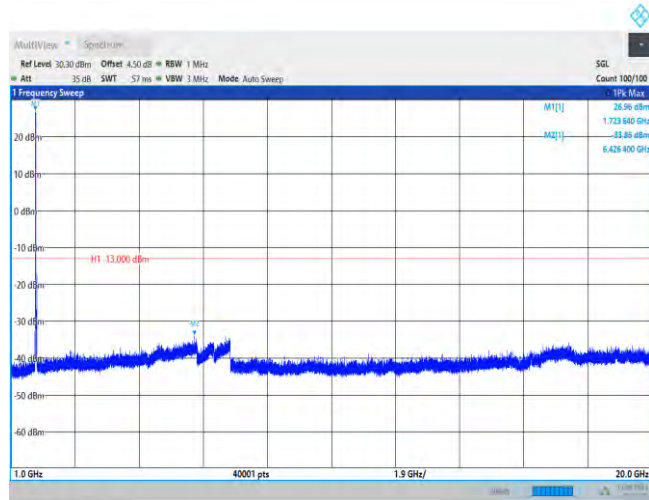
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



22:36:13 13.06.2023

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

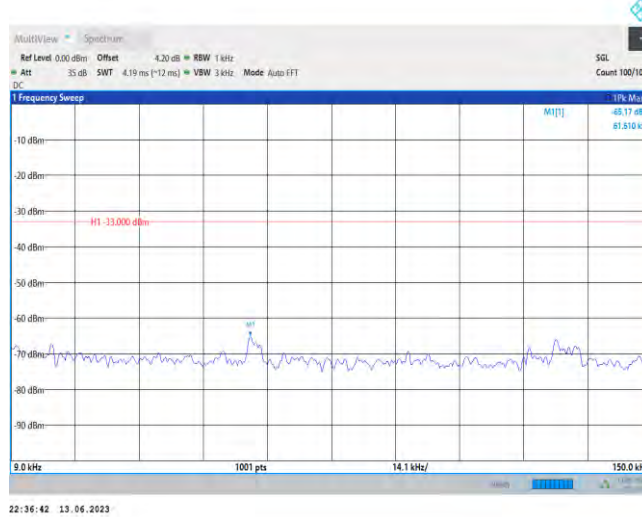


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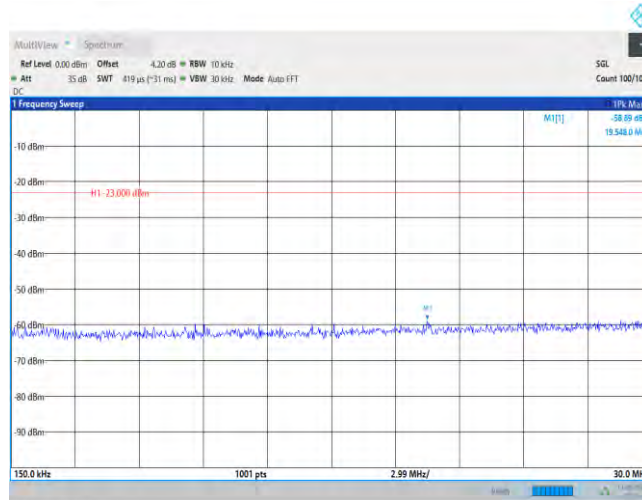
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



22:36:42 13.06.2023

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

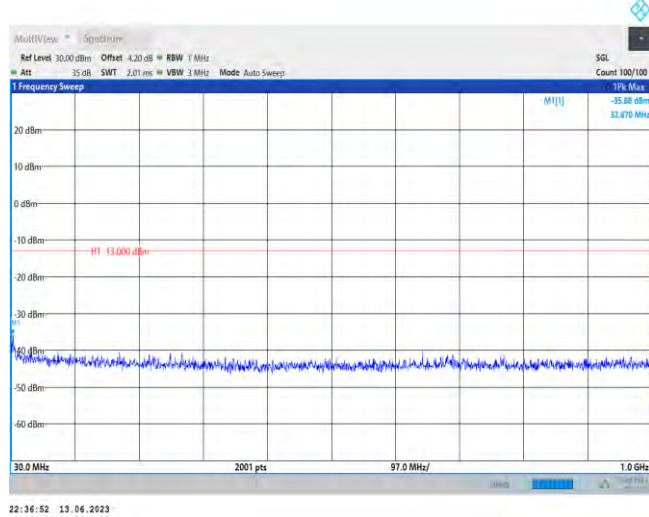


22:36:48 13.06.2023

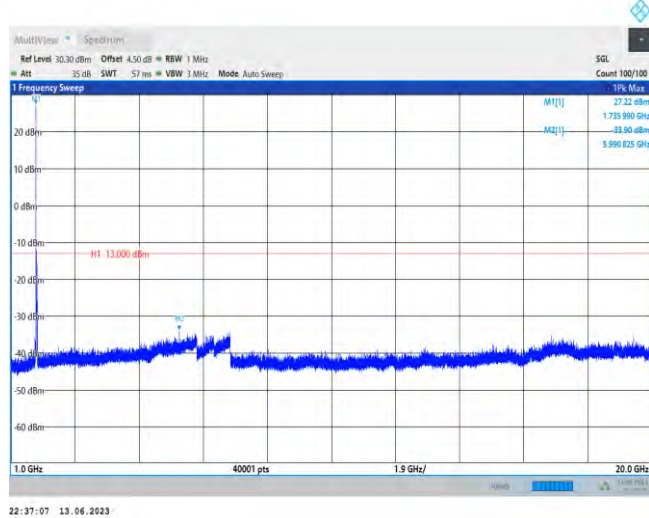


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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band4_20MHz_TM1

Test Channel = Low ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	58.28	-46.28	28.55	-54.70	-13.00	41.70	203	298	Horizontal
2	5133	46.32	-45.34	31.72	-62.56	-13.00	49.56	147	267	Horizontal
3	6844.3600	41.17	-44.14	34.92	-63.31	-13.00	50.31	255	252	Horizontal
4	8555.4500	37.41	-41.46	36.52	-62.79	-13.00	49.79	231	29	Horizontal
5	10266.5400	33.94	-39.23	38.33	-62.21	-13.00	49.21	121	207	Horizontal
6	11977.6300	31.68	-37.51	38.80	-62.30	-13.00	49.30	258	3	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	61.82	-46.28	28.55	-51.16	-13.00	38.16	145	284	Vertical
2	5133	44.47	-45.34	31.72	-64.41	-13.00	51.41	187	225	Vertical
3	6844.3600	40.26	-44.14	34.92	-64.22	-13.00	51.22	132	75	Vertical
4	8555.4500	37.75	-41.46	36.52	-62.45	-13.00	49.45	225	179	Vertical
5	10266.5400	34.26	-39.23	38.33	-61.89	-13.00	48.89	212	196	Vertical
6	11977.6300	31.10	-37.51	38.80	-62.88	-13.00	49.88	154	357	Vertical



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Test Band = LTE Band4_20MHz_TM1

Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	60.97	-46.27	28.57	-51.99	-13.00	38.99	155	301	Horizontal
2	5170.7700	43.13	-45.31	31.81	-65.62	-13.00	52.62	269	344	Horizontal
3	6894.3600	40.06	-44.10	35.01	-64.29	-13.00	51.29	132	150	Horizontal
4	8617.9500	37.31	-41.40	36.49	-62.85	-13.00	49.85	154	164	Horizontal
5	10341.5400	34.71	-39.06	38.37	-61.24	-13.00	48.24	147	318	Horizontal
6	12065.1300	31.43	-37.44	38.82	-62.45	-13.00	49.45	228	61	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	64.67	-46.27	28.57	-48.29	-13.00	35.29	205	271	Vertical
2	5170.7700	43.72	-45.31	31.81	-65.03	-13.00	52.03	145	210	Vertical
3	6894.3600	40.84	-44.10	35.01	-63.51	-13.00	50.51	232	3	Vertical
4	8617.9500	38.02	-41.40	36.49	-62.14	-13.00	49.14	169	151	Vertical
5	10341.5400	34.88	-39.06	38.37	-61.07	-13.00	48.07	131	286	Vertical
6	12065.1300	32.00	-37.44	38.82	-61.88	-13.00	48.88	148	14	Vertical



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Test Band = LTE Band4_20MHz_TM1

Test Channel = High ANTO

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	59.45	-46.27	28.58	-53.49	-13.00	40.49	203	61	Horizontal
2	5208.2700	43.22	-45.26	31.90	-65.40	-13.00	52.40	154	330	Horizontal
3	6944.3600	40.56	-43.85	35.10	-63.45	-13.00	50.45	269	46	Horizontal
4	8680.4500	38.44	-41.62	36.46	-61.98	-13.00	48.98	212	196	Horizontal
5	10416.5400	34.19	-38.97	38.41	-61.64	-13.00	48.64	144	239	Horizontal
6	12152.6300	32.01	-37.42	38.85	-61.82	-13.00	48.82	132	254	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	61.74	-46.27	28.58	-51.20	-13.00	38.20	223	283	Vertical
2	5208.2700	44.18	-45.26	31.90	-64.44	-13.00	51.44	258	255	Vertical
3	6944.3600	39.80	-43.85	35.10	-64.21	-13.00	51.21	169	360	Vertical
4	8680.4500	38.71	-41.62	36.46	-61.71	-13.00	48.71	147	148	Vertical
5	10416.5400	34.06	-38.97	38.41	-61.77	-13.00	48.77	132	45	Vertical
6	12152.6300	32.41	-37.42	38.85	-61.42	-13.00	48.42	155	45	Vertical



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Test Band = LTE Band4_20MHz_TM1

Test Channel = Low ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.25	60.64	-46.28	28.55	-52.34	-13.00	39.34	166	61	Horizontal
2	5556.75	41.65	-45.14	32.61	-66.14	-13.00	53.14	147	331	Horizontal
3	6693	41.12	-43.85	34.65	-63.34	-13.00	50.34	185	195	Horizontal
4	7704	40.06	-43.09	36.68	-61.61	-13.00	48.61	196	272	Horizontal
5	8796.75	38.01	-41.26	36.40	-62.11	-13.00	49.11	251	61	Horizontal
6	10877.25	33.76	-37.99	38.64	-60.85	-13.00	47.85	142	286	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3486	43.57	-46.26	28.59	-69.36	-13.00	56.36	266	91	Vertical
2	4596.75	41.85	-45.67	30.51	-68.57	-13.00	55.57	253	344	Vertical
3	5480.25	41.69	-45.25	32.55	-66.27	-13.00	53.27	145	255	Vertical
4	6414.75	40.42	-44.44	34.03	-65.25	-13.00	52.25	185	354	Vertical
5	7434.75	40.43	-43.32	36.42	-61.73	-13.00	48.73	175	354	Vertical
6	8640	38.23	-41.47	36.48	-62.02	-13.00	49.02	192	31	Vertical



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Test Band = LTE Band4_20MHz_TM1

Test Channel = Mid ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	61.44	-46.27	28.57	-51.52	-13.00	38.52	185	59	Horizontal
2	4695.75	41.74	-45.60	30.73	-68.39	-13.00	55.39	145	346	Horizontal
3	5411.25	41.86	-45.29	32.39	-66.31	-13.00	53.31	126	357	Horizontal
4	6528	40.50	-44.54	34.35	-64.95	-13.00	51.95	299	120	Horizontal
5	7663.5	40.21	-43.05	36.67	-61.44	-13.00	48.44	175	134	Horizontal
6	9840	35.60	-39.42	37.90	-61.18	-13.00	48.18	188	209	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447	65.26	-46.27	28.57	-47.70	-13.00	34.70	155	270	Vertical
2	5170.5	44.92	-45.31	31.81	-63.84	-13.00	50.84	145	14	Vertical
3	6652.5	41.22	-44.07	34.57	-63.53	-13.00	50.53	186	359	Vertical
4	8335.5	39.32	-41.81	36.63	-61.12	-13.00	48.12	291	3	Vertical
5	9321	37.00	-40.14	36.91	-61.49	-13.00	48.49	147	360	Vertical
6	12651.75	32.79	-37.13	39.00	-60.61	-13.00	47.61	185	284	Vertical



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Test Band = LTE Band4_20MHz_TM1
Test Channel = High ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.5	58.28	-46.27	28.58	-54.66	-13.00	41.66	266	74	Horizontal
2	4937.25	42.31	-45.57	31.26	-67.26	-13.00	54.26	145	272	Horizontal
3	5859.75	41.42	-44.88	32.67	-66.05	-13.00	53.05	185	178	Horizontal
4	7471.5	40.31	-43.22	36.52	-61.65	-13.00	48.65	186	240	Horizontal
5	10042.5	35.81	-39.19	38.22	-60.42	-13.00	47.42	261	14	Horizontal
6	11206.5	34.52	-37.39	38.72	-59.41	-13.00	46.41	199	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4106.25	42.13	-45.76	29.36	-69.54	-13.00	56.54	156	121	Vertical
2	5550	41.69	-45.16	32.61	-66.12	-13.00	53.12	142	104	Vertical
3	6144	41.19	-44.59	33.16	-65.50	-13.00	52.50	185	31	Vertical
4	7286.25	40.51	-43.70	36.00	-62.45	-13.00	49.45	196	3	Vertical
5	9088.5	37.23	-40.42	36.47	-61.99	-13.00	48.99	152	226	Vertical
6	10463.25	36.00	-38.88	38.43	-59.71	-13.00	46.71	136	210	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



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	-12.90	-0.007446	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-8.00	-0.004618	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-9.60	-0.005541	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	3.60	0.002078	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-9.40	-0.005426	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-8.60	-0.004964	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-1.40	-0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	0.30	0.000173	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-10.30	-0.005945	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-3.60	-0.002078	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-3.60	-0.002078	PASS

---End of Attachment---



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