

# Appendix B.5

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant41

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.99	16.10	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.95	16.06	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.94	16.05	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.42	15.53	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.96	16.07	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.91	16.02	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.92	16.03	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.38	15.49	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.98	16.09	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.89	16.00	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.88	15.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.44	15.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.52	15.63	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.63	15.74	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.44	15.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.50	14.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.55	15.66	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.55	15.66	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.59	15.70	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.43	14.54	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.49	15.60	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.54	15.65	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.44	15.55	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.48	14.59	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.95	14.06	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.19	14.30	38.45	PASS



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Band5	1.4MHz	64QAM	20407	1RB#5	22.17	14.28	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	21.03	13.14	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.04	14.15	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.20	14.31	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.31	14.42	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.95	13.06	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.99	14.10	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.08	14.19	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.16	14.27	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.96	13.07	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#0	18.77	10.88	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#2	19.07	11.18	38.45	PASS
Band5	1.4MHz	256QAM	20407	1RB#5	18.96	11.07	38.45	PASS
Band5	1.4MHz	256QAM	20407	6RB#0	18.94	11.05	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#0	18.87	10.98	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#2	18.98	11.09	38.45	PASS
Band5	1.4MHz	256QAM	20525	1RB#5	19.09	11.20	38.45	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	18.90	11.01	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#0	18.98	11.09	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#2	19.12	11.23	38.45	PASS
Band5	1.4MHz	256QAM	20643	1RB#5	19.09	11.20	38.45	PASS
Band5	1.4MHz	256QAM	20643	6RB#0	18.96	11.07	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.91	16.02	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.96	16.07	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.81	15.92	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.51	15.62	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.92	16.03	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.94	16.05	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.01	16.12	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.44	15.55	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.21	16.32	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.03	16.14	38.45	PASS



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Band5	3MHz	QPSK	20635	1RB#14	23.85	15.96	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.46	15.57	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.41	15.52	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.58	15.69	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.56	15.67	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.52	14.63	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.57	15.68	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.66	15.77	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.56	15.67	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.44	14.55	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.48	15.59	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.60	15.71	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.50	15.61	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.51	14.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.14	14.25	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.22	14.33	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.13	14.24	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.03	13.14	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.06	14.17	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.17	14.28	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.06	14.17	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.88	12.99	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.06	14.17	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.05	14.16	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.29	14.40	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.04	13.15	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#0	19.04	11.15	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#8	19.19	11.30	38.45	PASS
Band5	3MHz	256QAM	20415	1RB#14	18.95	11.06	38.45	PASS
Band5	3MHz	256QAM	20415	15RB#0	18.99	11.10	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#0	18.80	10.91	38.45	PASS
Band5	3MHz	256QAM	20525	1RB#8	19.11	11.22	38.45	PASS



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Band5	3MHz	256QAM	20525	1RB#14	19.06	11.17	38.45	PASS
Band5	3MHz	256QAM	20525	15RB#0	18.85	10.96	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#0	18.96	11.07	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#8	19.15	11.26	38.45	PASS
Band5	3MHz	256QAM	20635	1RB#14	18.90	11.01	38.45	PASS
Band5	3MHz	256QAM	20635	15RB#0	18.91	11.02	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.82	15.93	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.93	16.04	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.90	16.01	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.42	15.53	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.11	16.22	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.04	16.15	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.83	15.94	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.38	15.49	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.23	16.34	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.08	16.19	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.89	16.00	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.41	15.52	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.45	15.56	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.78	15.89	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.36	15.47	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.40	14.51	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.50	15.61	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.66	15.77	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.55	15.66	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.43	14.54	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.53	15.64	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.53	15.64	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.56	15.67	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.44	14.55	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.00	14.11	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.15	14.26	38.45	PASS



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Band5	5MHz	64QAM	20425	25RB#0	20.97	13.08	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.17	14.28	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.21	14.32	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.06	14.17	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.83	12.94	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.03	14.14	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.17	14.28	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.21	14.32	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.91	13.02	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#0	18.97	11.08	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#12	18.95	11.06	38.45	PASS
Band5	5MHz	256QAM	20425	1RB#24	19.04	11.15	38.45	PASS
Band5	5MHz	256QAM	20425	25RB#0	18.92	11.03	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#0	19.05	11.16	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#12	19.11	11.22	38.45	PASS
Band5	5MHz	256QAM	20525	1RB#24	18.94	11.05	38.45	PASS
Band5	5MHz	256QAM	20525	25RB#0	18.82	10.93	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#0	19.03	11.14	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#12	19.17	11.28	38.45	PASS
Band5	5MHz	256QAM	20625	1RB#24	18.85	10.96	38.45	PASS
Band5	5MHz	256QAM	20625	25RB#0	18.90	11.01	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.98	16.09	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.97	16.08	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.90	16.01	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.51	15.62	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.25	16.36	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.01	16.12	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.90	16.01	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.44	15.55	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.29	16.40	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.94	16.05	38.45	PASS



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Report No.: SEWM2311000447RG01

Rev.: 01

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Band5	10MHz	QPSK	20600	1RB#49	23.95	16.06	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.42	15.53	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.56	15.67	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.50	15.61	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.49	15.60	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.51	14.62	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.65	15.76	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.66	15.77	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.40	15.51	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.41	14.52	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.47	15.58	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.61	15.72	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.47	15.58	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.50	14.61	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.22	14.33	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.12	14.23	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.08	14.19	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.92	13.03	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.04	14.15	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.16	14.27	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.29	14.40	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.98	13.09	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.22	14.33	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.32	14.43	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.01	14.12	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.90	13.01	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#0	18.93	11.04	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#24	19.09	11.20	38.45	PASS
Band5	10MHz	256QAM	20450	1RB#49	18.95	11.06	38.45	PASS
Band5	10MHz	256QAM	20450	50RB#0	18.96	11.07	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#0	18.86	10.97	38.45	PASS
Band5	10MHz	256QAM	20525	1RB#24	19.03	11.14	38.45	PASS



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Band5	10MHz	256QAM	20525	1RB#49	19.04	11.15	38.45	PASS
Band5	10MHz	256QAM	20525	50RB#0	18.88	10.99	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#0	19.03	11.14	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#24	19.14	11.25	38.45	PASS
Band5	10MHz	256QAM	20600	1RB#49	19.03	11.14	38.45	PASS
Band5	10MHz	256QAM	20600	50RB#0	18.95	11.06	38.45	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.66	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.58	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.84	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.44	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.58	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.82	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.28	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.38	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.44	13	PASS
Band5	10MHz	256QAM	20450	50RB#0	6.74	13	PASS
Band5	10MHz	256QAM	20525	50RB#0	6.72	13	PASS
Band5	10MHz	256QAM	20600	50RB#0	6.80	13	PASS



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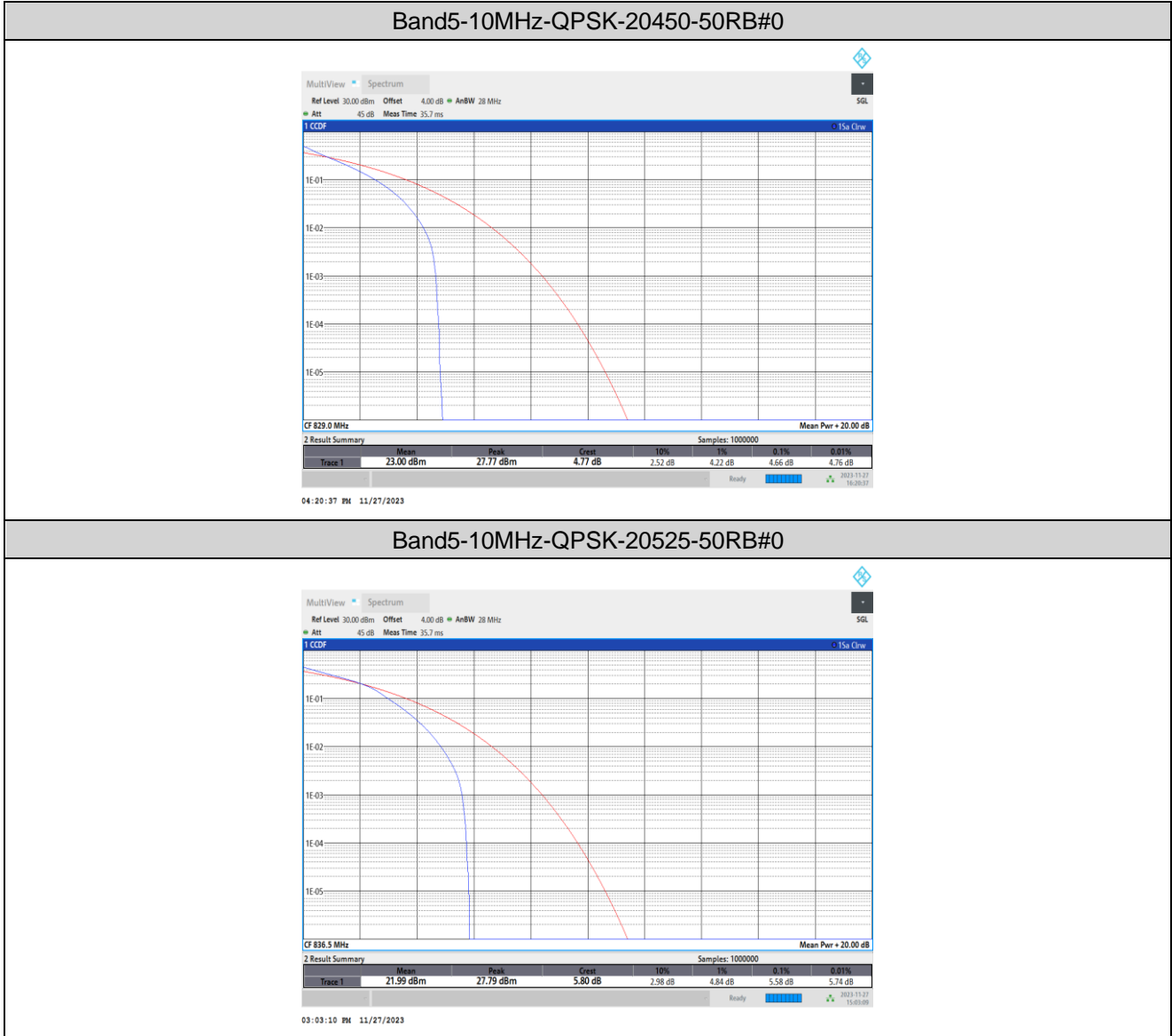
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Test Graphs

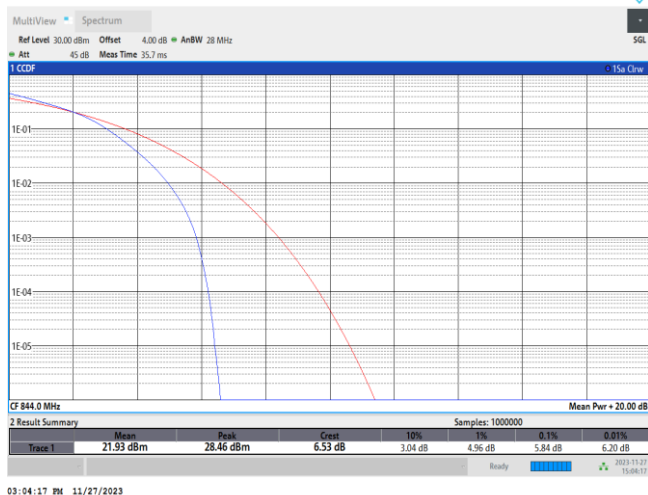


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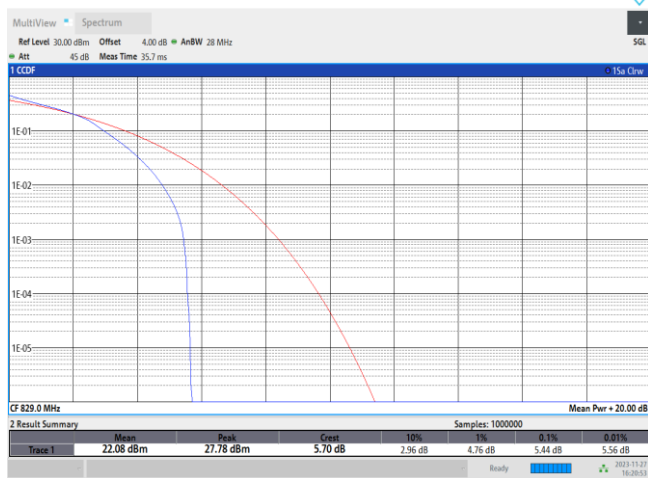
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Band5-10MHz-QPSK-20600-50RB#0



03:04:17 PM 11/27/2023

Band5-10MHz-16QAM-20450-50RB#0



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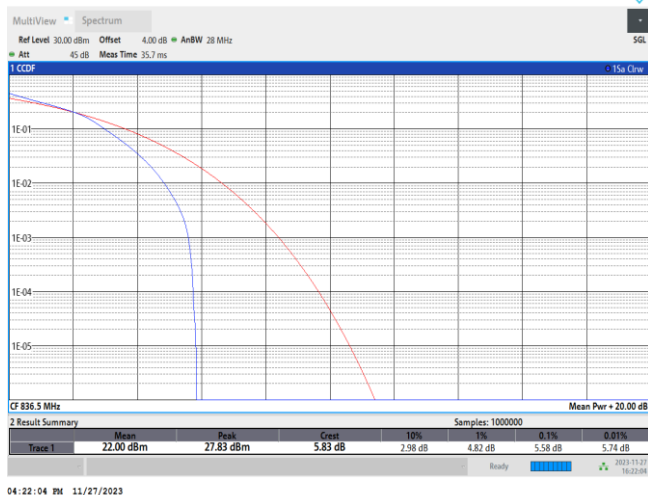


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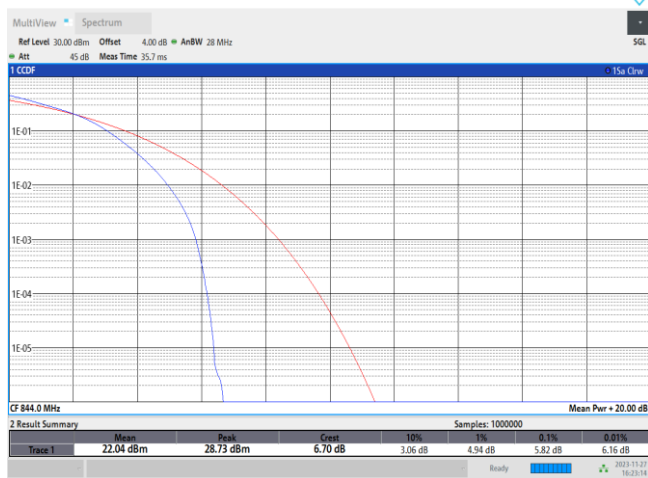
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Band5-10MHz-16QAM-20525-50RB#0



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Band5-10MHz-16QAM-20600-50RB#0



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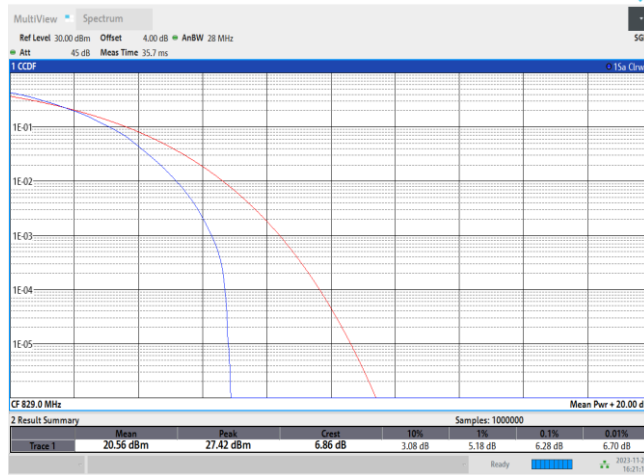
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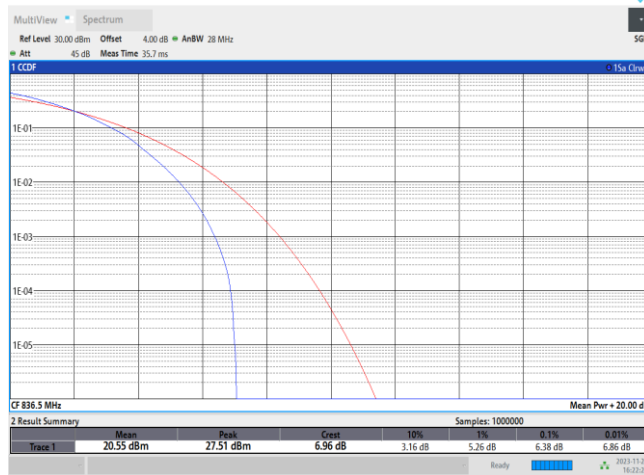


Band5-10MHz-64QAM-20450-50RB#0



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Band5-10MHz-64QAM-20525-50RB#0



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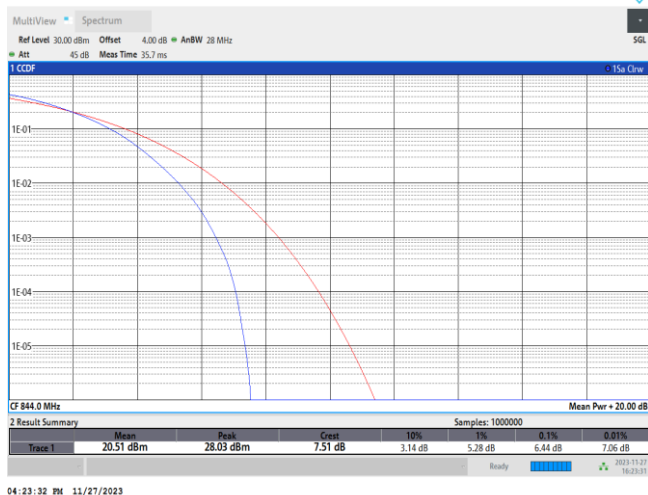


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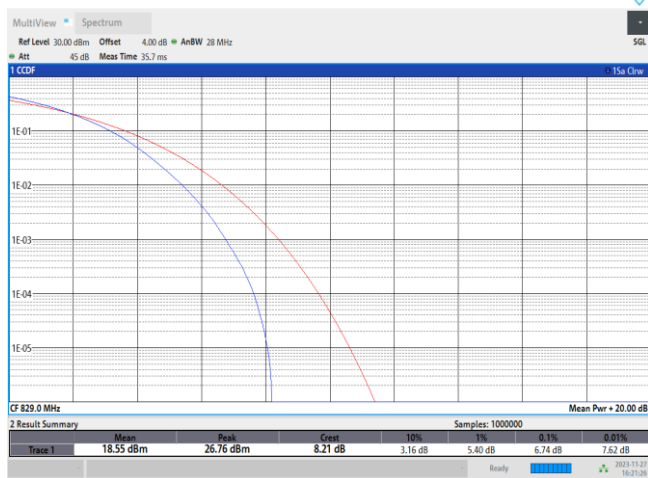
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Band5-10MHz-64QAM-20600-50RB#0



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Band5-10MHz-256QAM-20450-50RB#0



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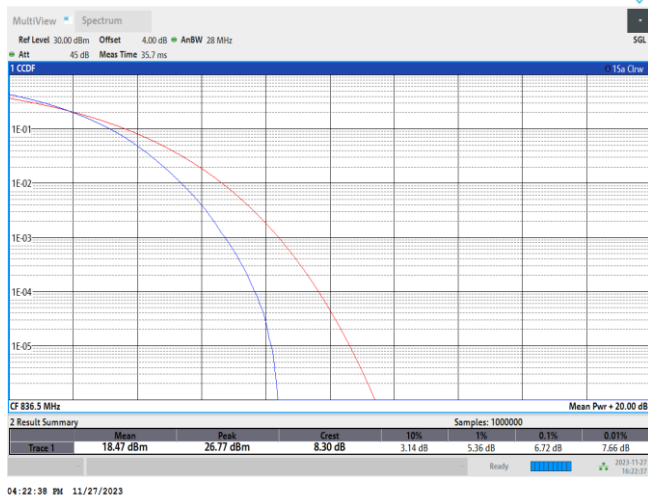


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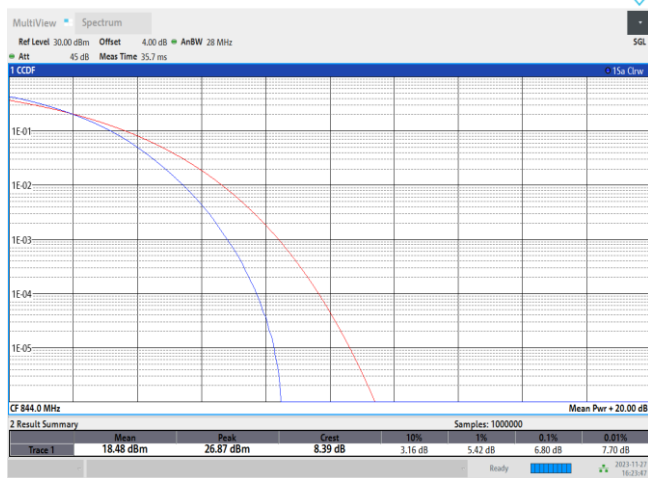
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Band5-10MHz-256QAM-20525-50RB#0



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Band5-10MHz-256QAM-20600-50RB#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
Band5	1.4MHz	QPSK	20525	6RB#0	1.102	1.39	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.107	1.40	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.107	1.37	PASS
Band5	1.4MHz	256QAM	20525	6RB#0	1.105	1.38	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.703	3.10	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.696	3.04	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.695	3.05	PASS
Band5	3MHz	256QAM	20525	15RB#0	2.698	3.03	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.472	4.98	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	5.02	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.477	4.99	PASS
Band5	5MHz	256QAM	20525	25RB#0	4.472	5.00	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.926	9.76	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.929	9.74	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.916	9.84	PASS
Band5	10MHz	256QAM	20525	50RB#0	8.92	9.76	PASS



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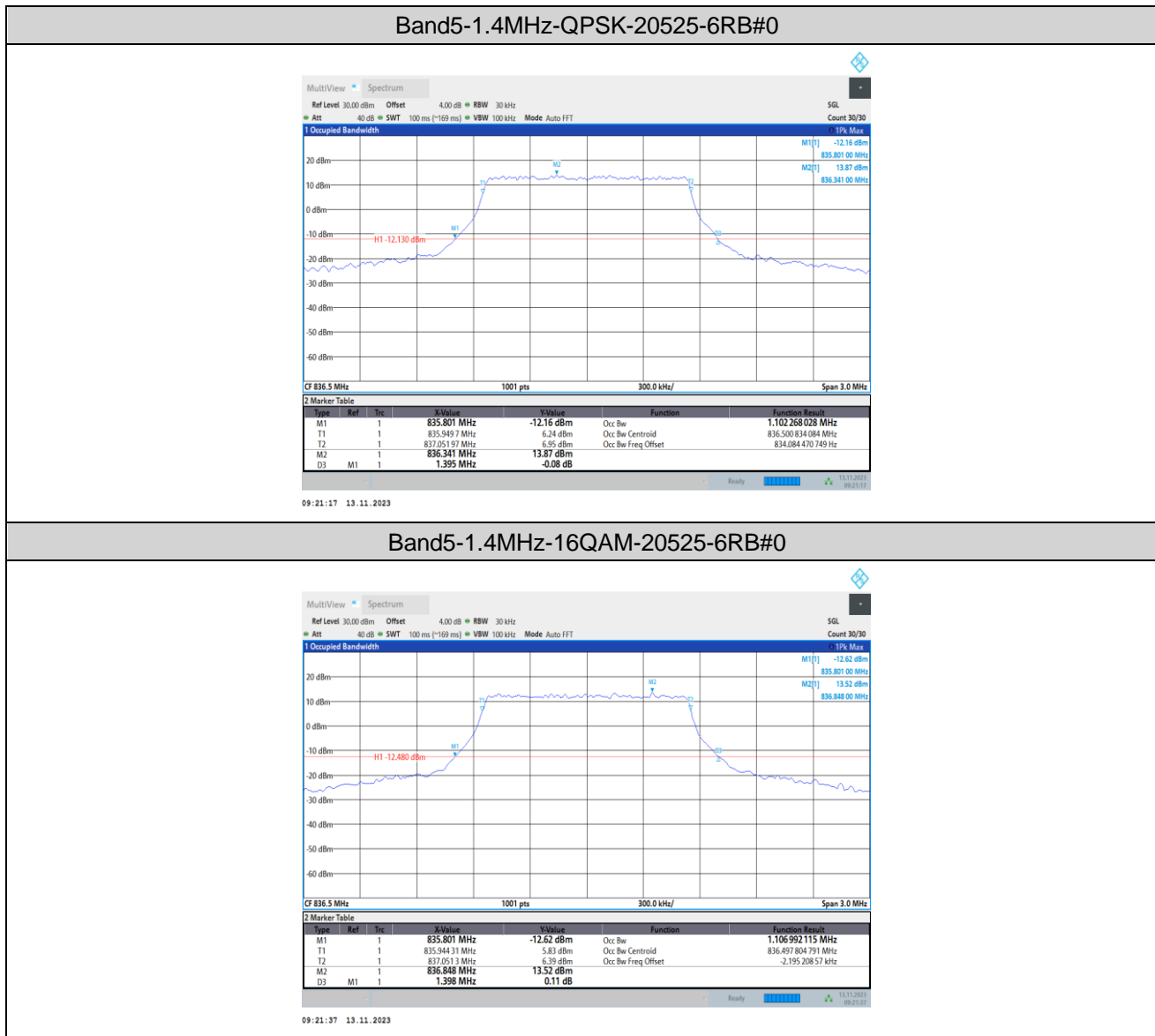
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Test Graphs

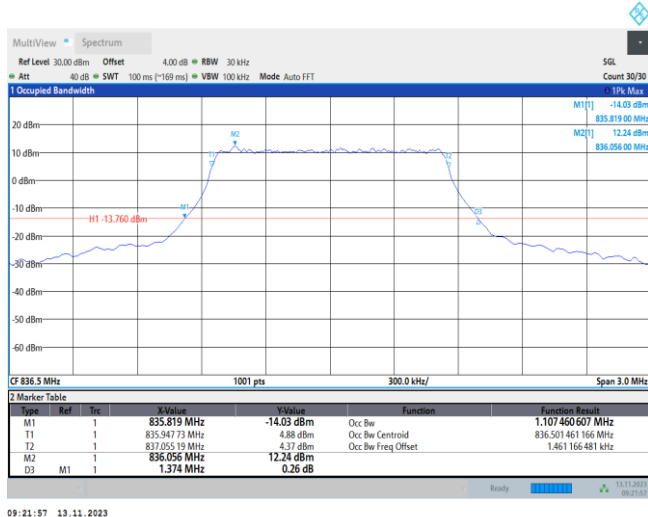


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Band5-1.4MHz-64QAM-20525-6RB#0



Band5-1.4MHz-256QAM-20525-6RB#0

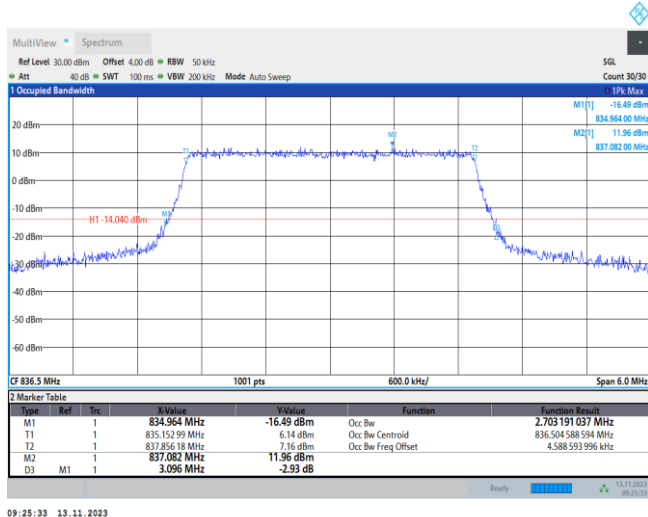


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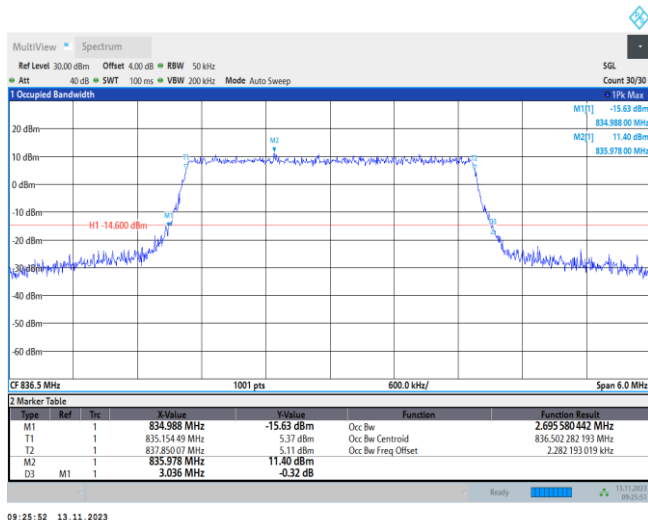
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Band5-3MHz-QPSK-20525-15RB#0



Band5-3MHz-16QAM-20525-15RB#0

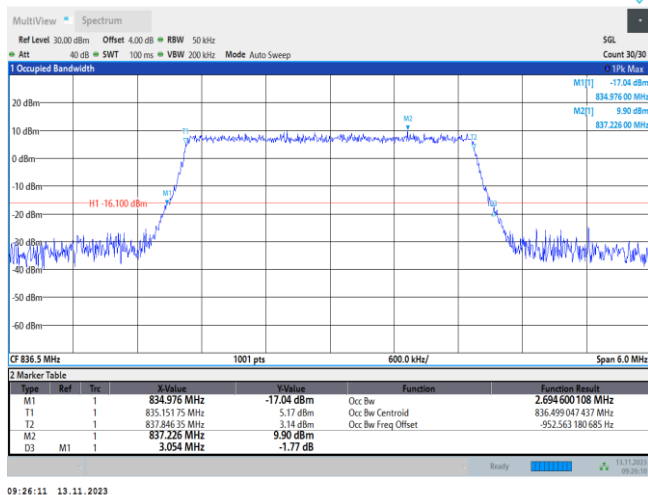


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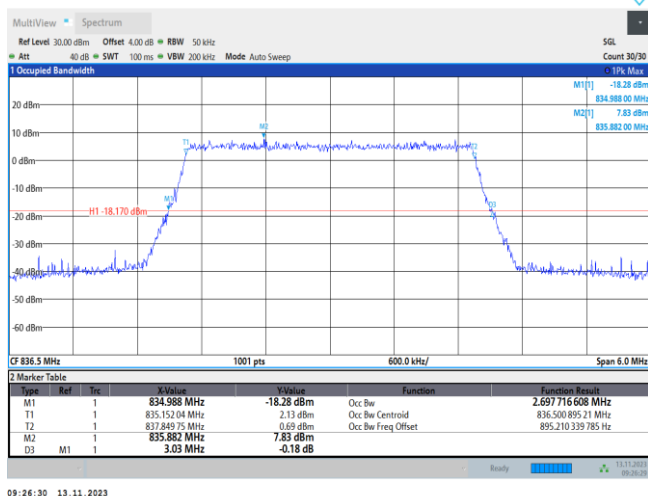
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Band5-3MHz-64QAM-20525-15RB#0



09:26:11 13.11.2023

Band5-3MHz-256QAM-20525-15RB#0



09:26:30 13.11.2023

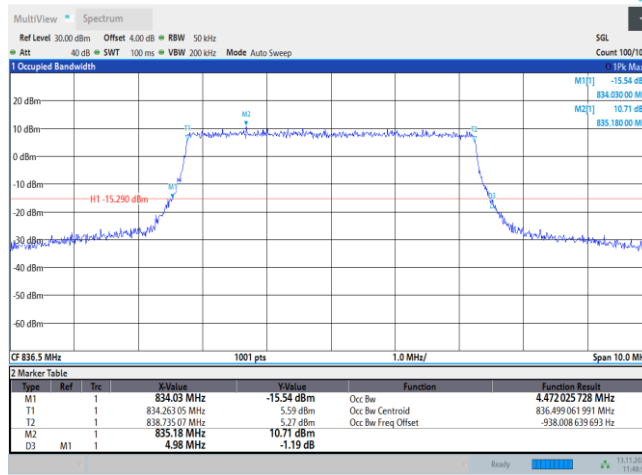


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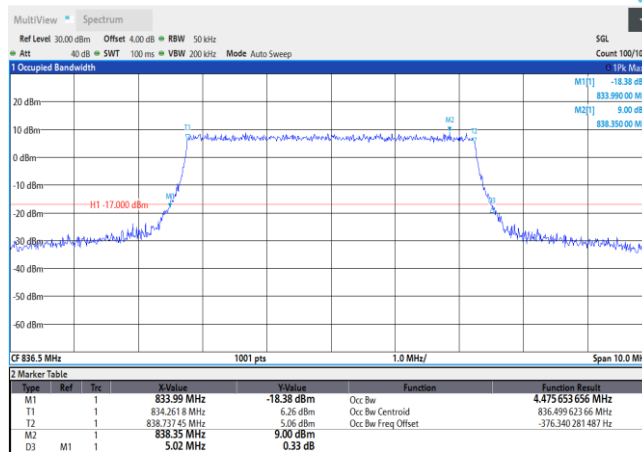


Band5-5MHz-QPSK-20525-25RB#0



11:48:53 13.11.2023

Band5-5MHz-16QAM-20525-25RB#0



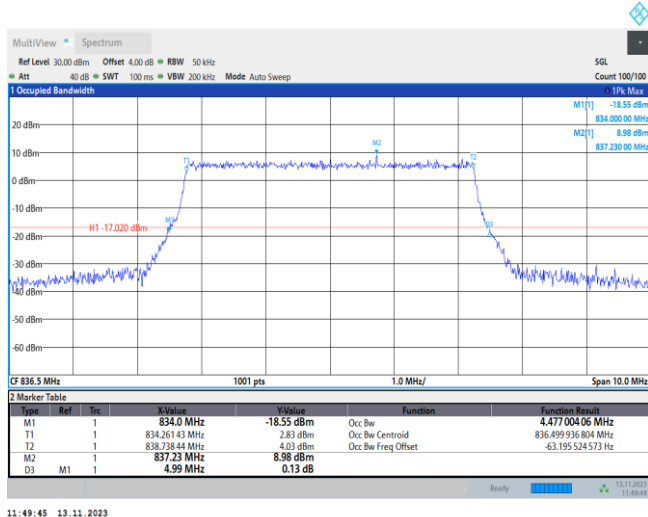
11:49:19 13.11.2023



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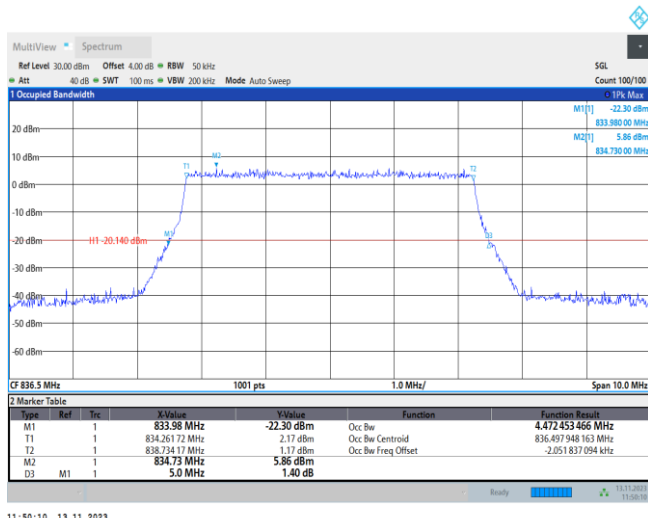
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Band5-5MHz-64QAM-20525-25RB#0



11:49:45 13.11.2023

Band5-5MHz-256QAM-20525-25RB#0



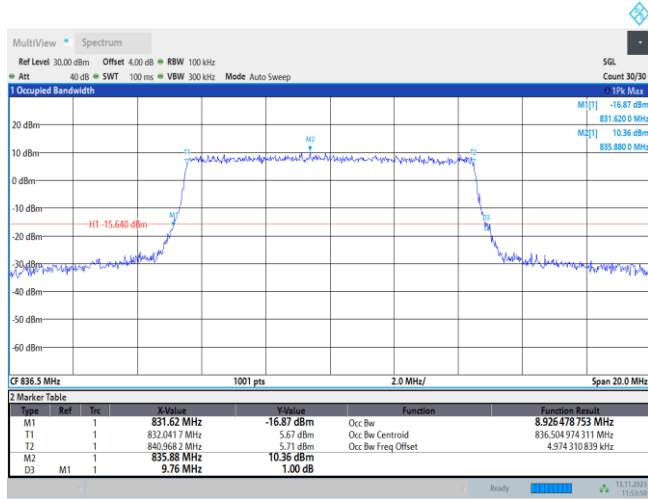
11:50:10 13.11.2023



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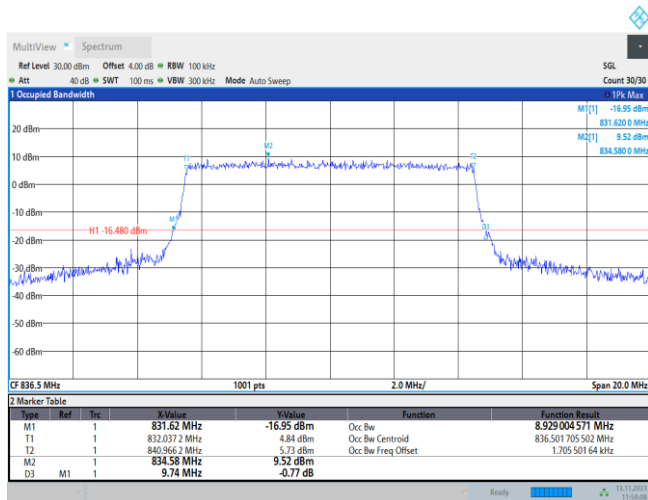
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Band5-10MHz-QPSK-20525-50RB#0



11:53:50 13.11.2023

Band5-10MHz-16QAM-20525-50RB#0



11:54:09 13.11.2023

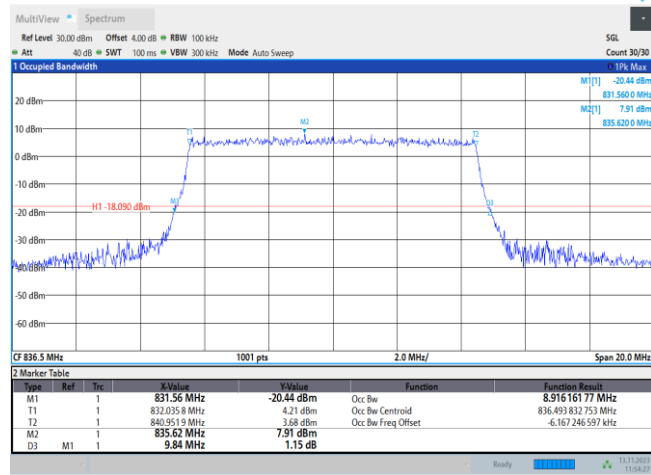


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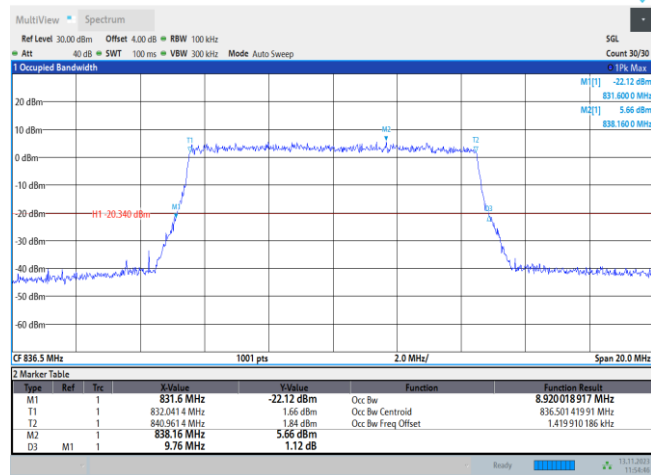
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Band5-10MHz-64QAM-20525-50RB#0



11:54:28 13.11.2023

Band5-10MHz-256QAM-20525-50RB#0



11:54:47 13.11.2023



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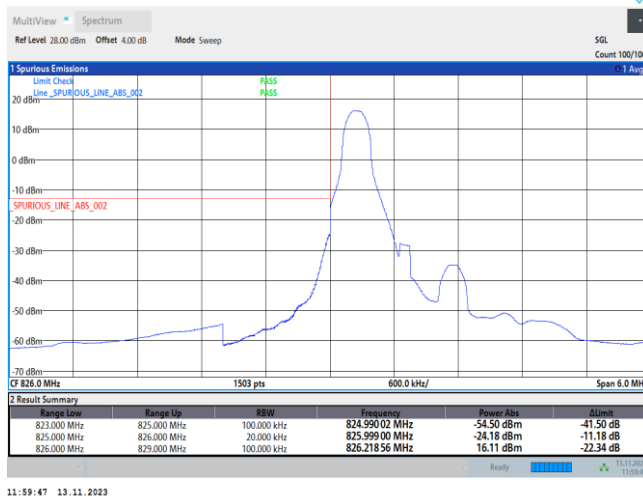
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## Band Edge

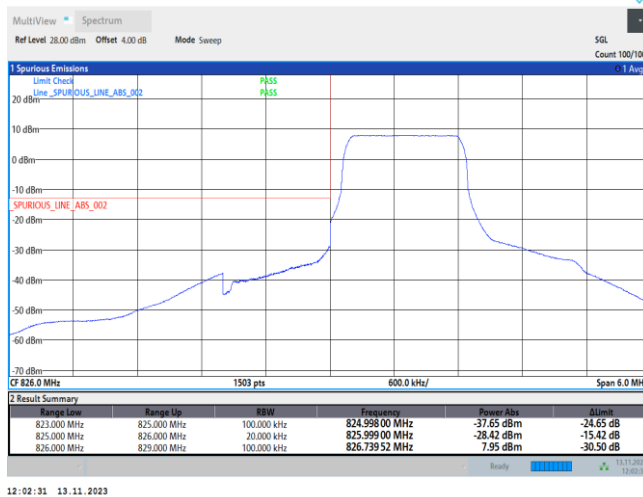
## Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



11:59:47 13.11.2023

Band5-1.4MHz-QPSK-20427-6RB#0



12:02:31 13.11.2023



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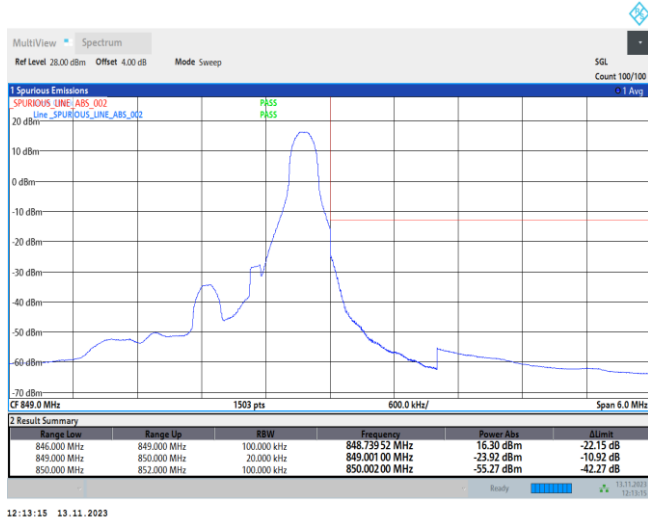
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Band5-1.4MHz-QPSK-20643-1RB#5



12:13:15 13.11.2023

Band5-1.4MHz-QPSK-20643-6RB#0



12:14:00 13.11.2023

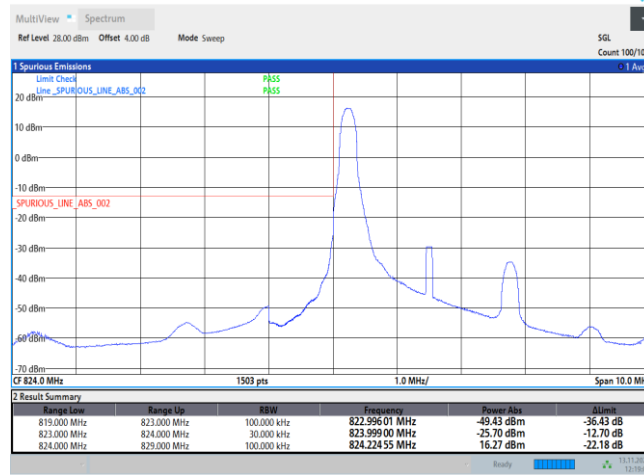


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Band5-3MHz-QPSK-20415-1RB#0



12:19:03 13.11.2023

Band5-3MHz-QPSK-20415-15RB#0



12:21:47 13.11.2023

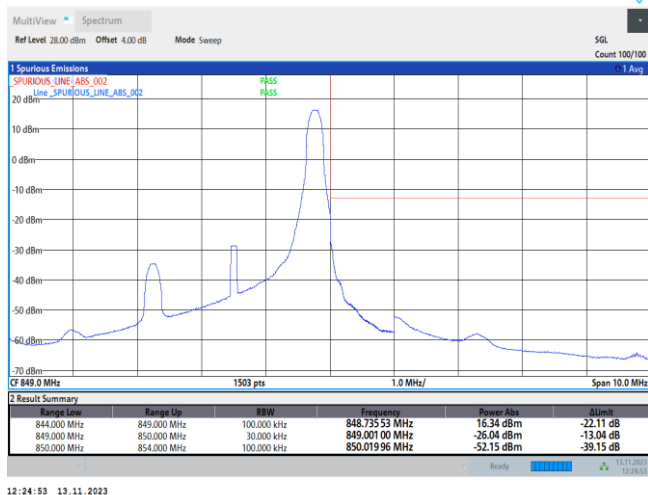


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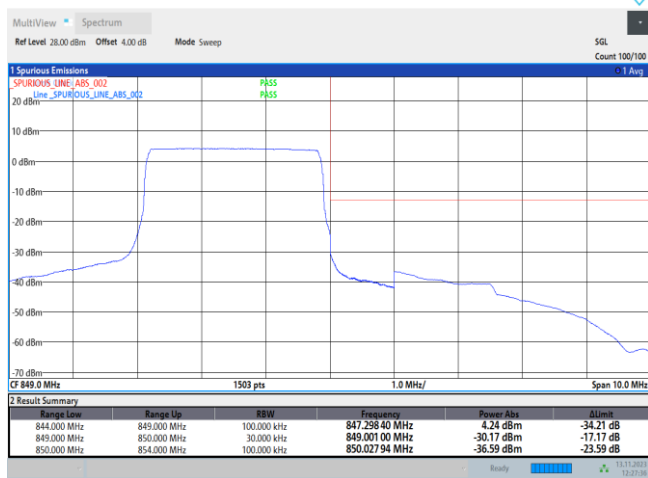
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Band5-3MHz-QPSK-20635-1RB#14



12:24:53 13.11.2023

Band5-3MHz-QPSK-20635-15RB#0



12:27:37 13.11.2023

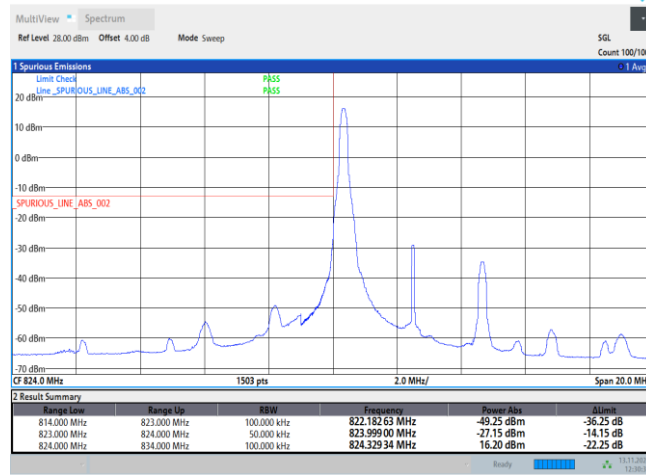


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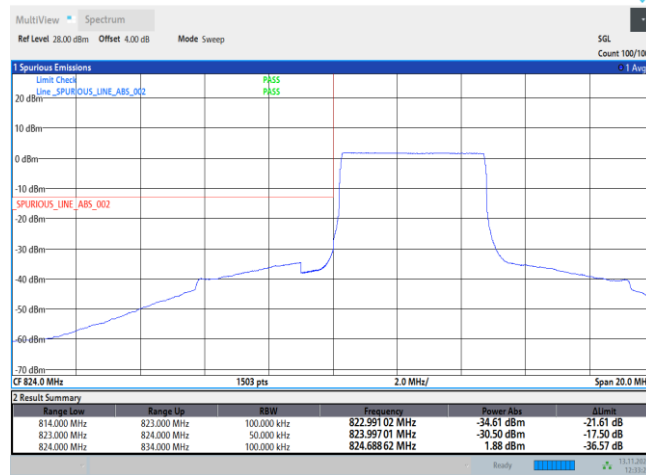
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Band5-5MHz-QPSK-20425-1RB#0



12:30:38 13.11.2023

Band5-5MHz-QPSK-20425-25RB#0



12:33:22 13.11.2023



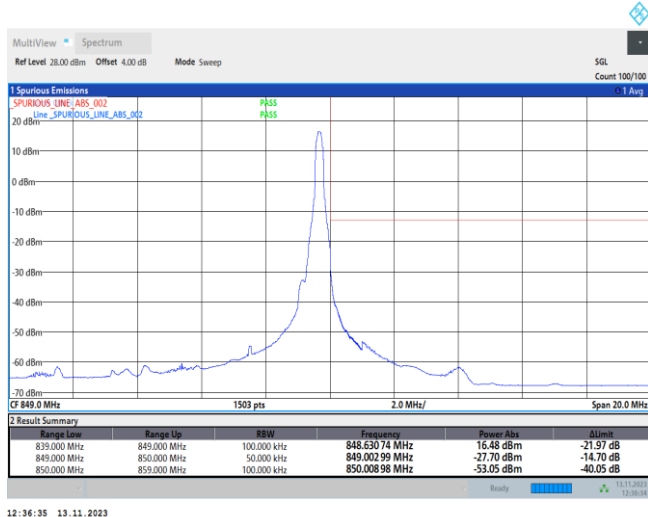
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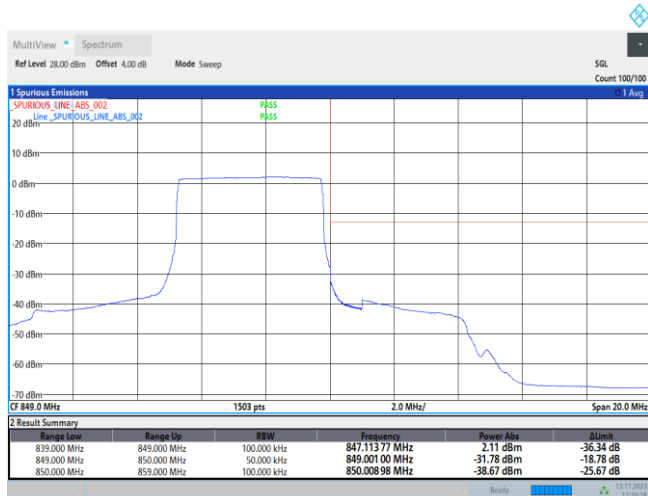


Band5-5MHz-QPSK-20625-1RB#24



12:36:35 13.11.2023

Band5-5MHz-QPSK-20625-25RB#0



12:39:19 13.11.2023

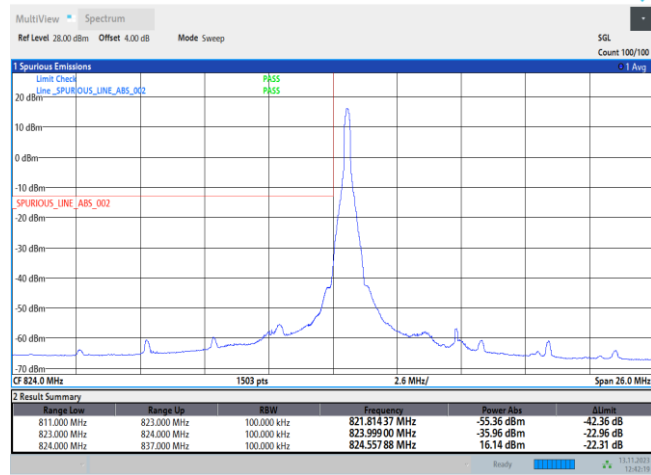


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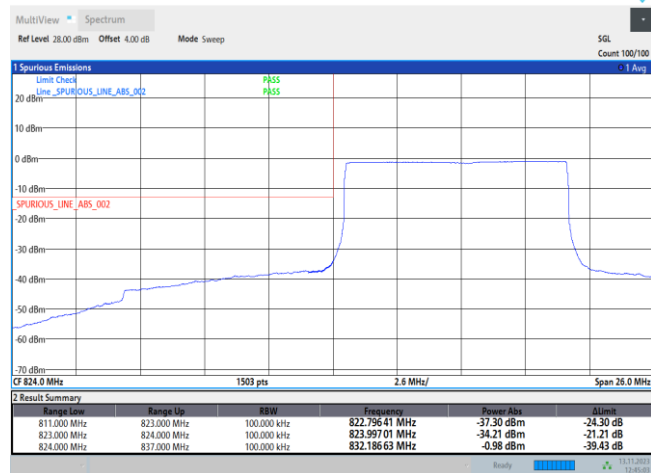
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Band5-10MHz-QPSK-20450-1RB#0



12:42:20 13.11.2023

Band5-10MHz-QPSK-20450-50RB#0



12:45:04 13.11.2023

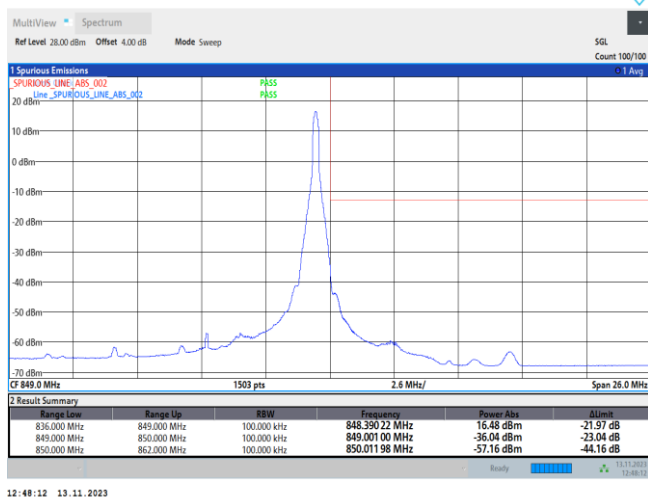


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Band5-10MHz-QPSK-20600-1RB#49



12:48:12 13.11.2023

Band5-10MHz-QPSK-20600-50RB#0



12:50:54 13.11.2023



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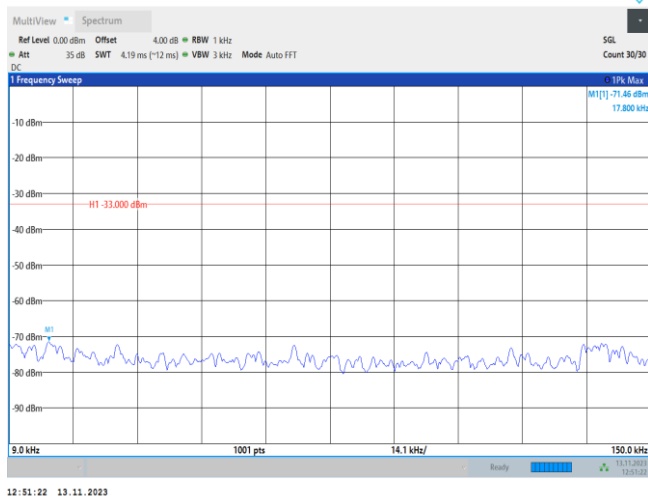
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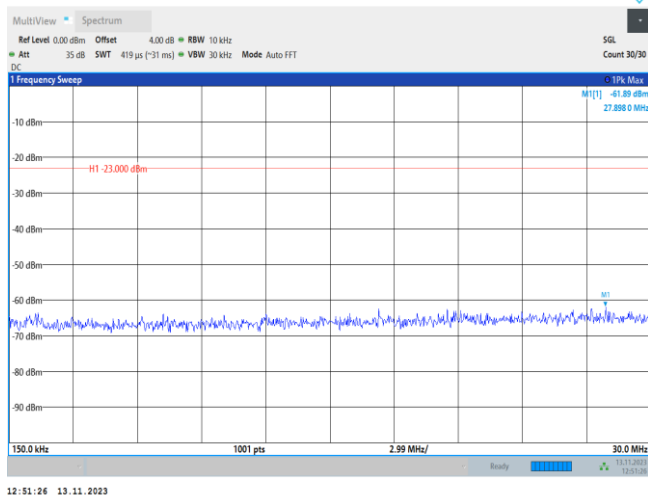
## Conducted Spurious Emission

### Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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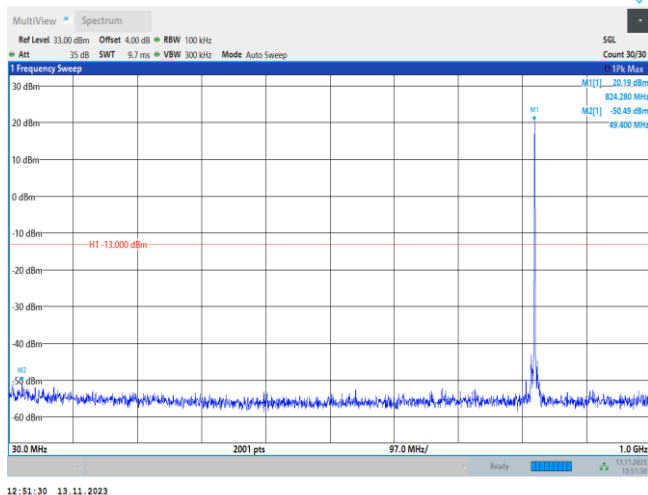
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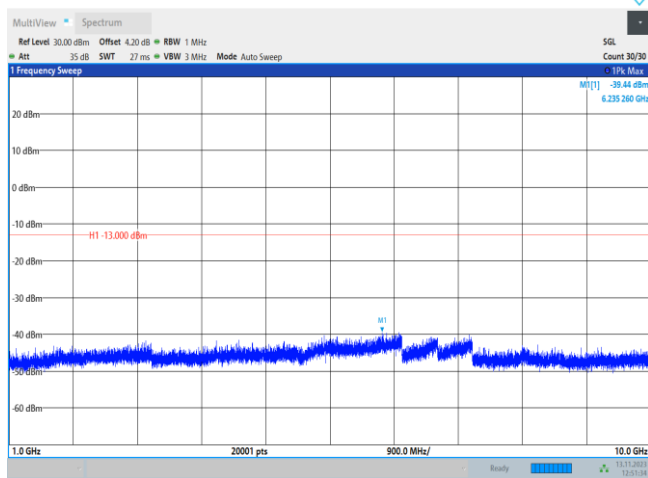
Member of the SGS Group (SGS SA)

Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



12:51:30 13.11.2023

Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



12:51:34 13.11.2023



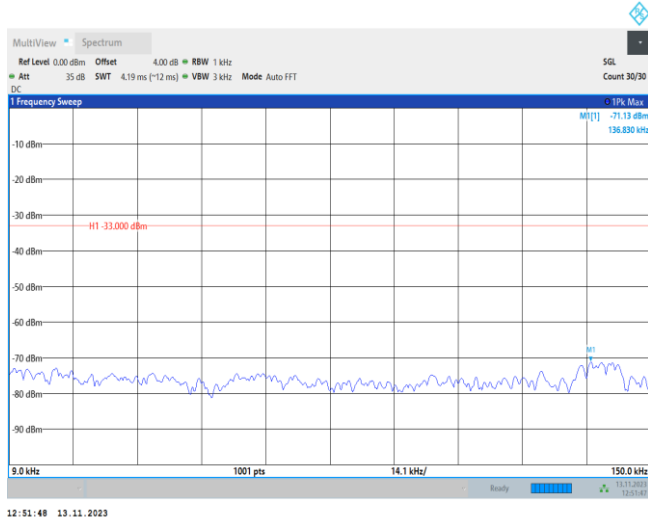
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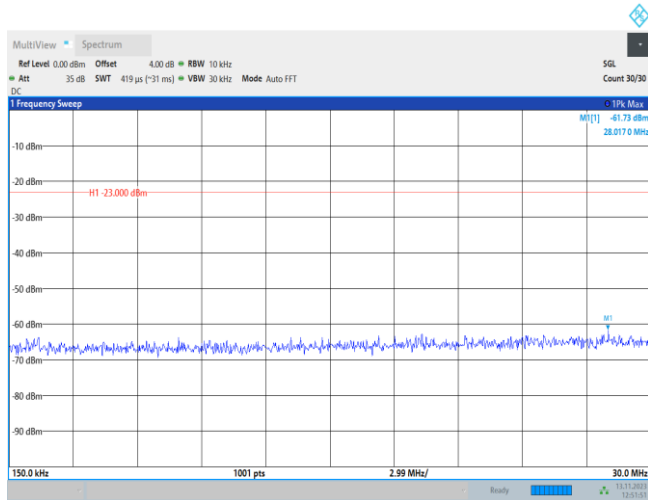


Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



12:51:48 13.11.2023

Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



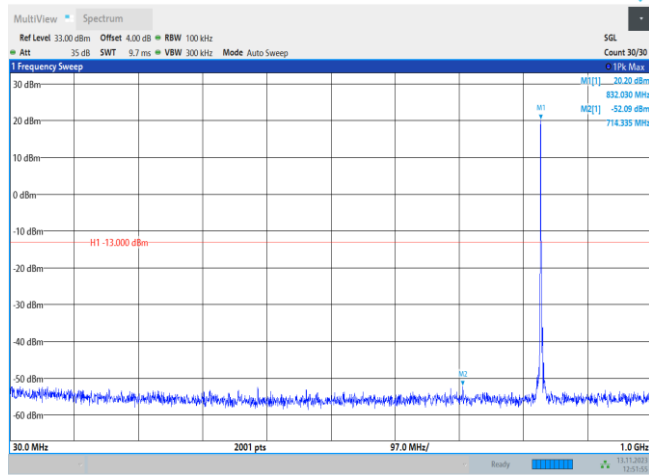
12:51:51 13.11.2023



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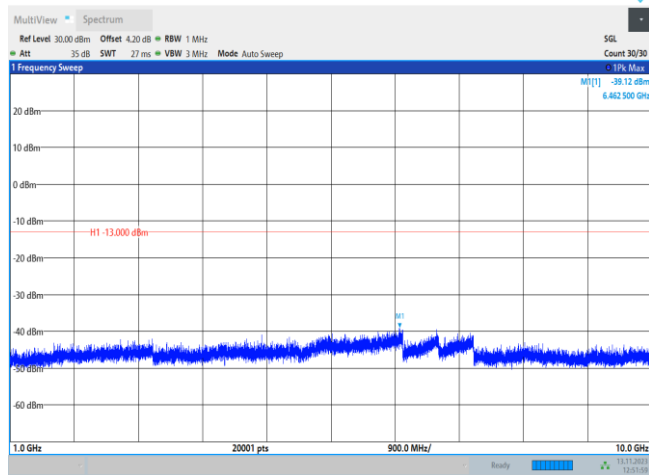
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



12:51:55 13.11.2023

Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



12:52:00 13.11.2023

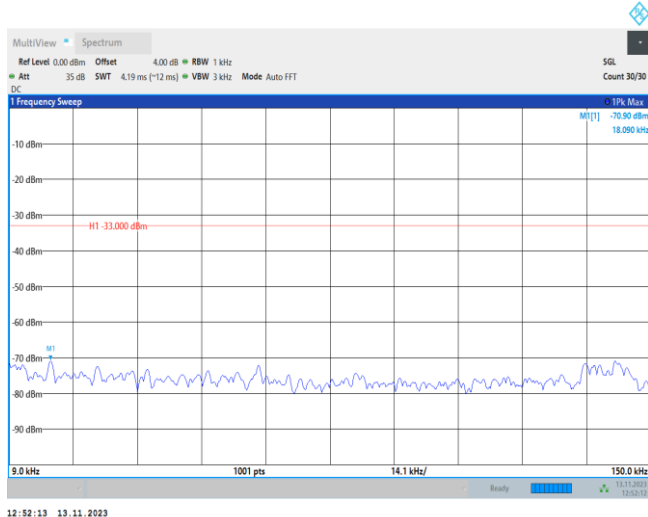


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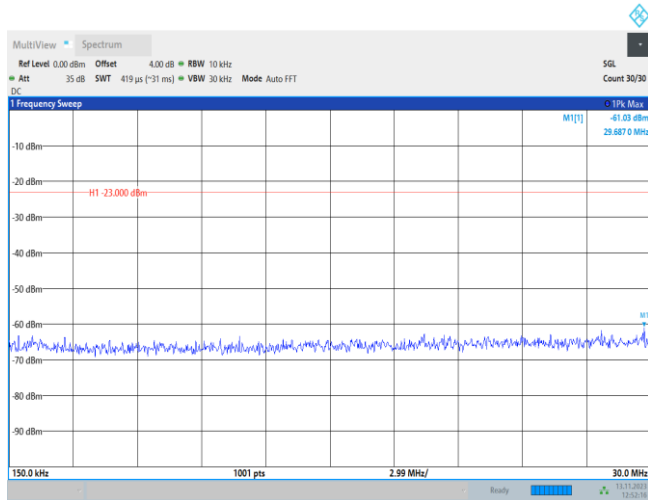
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



12:52:13 13.11.2023

Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



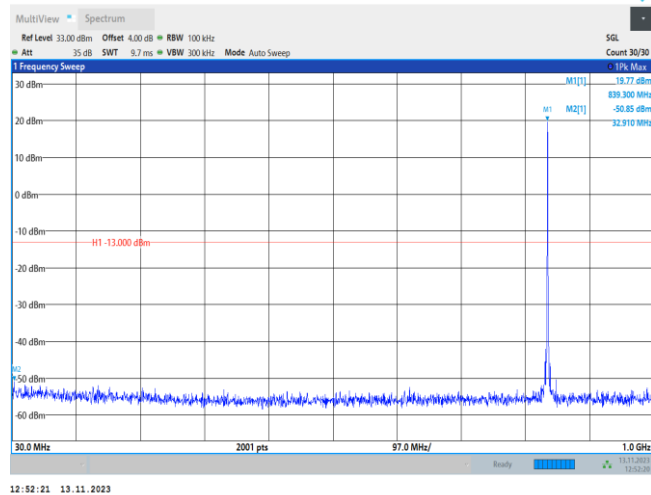
12:52:17 13.11.2023



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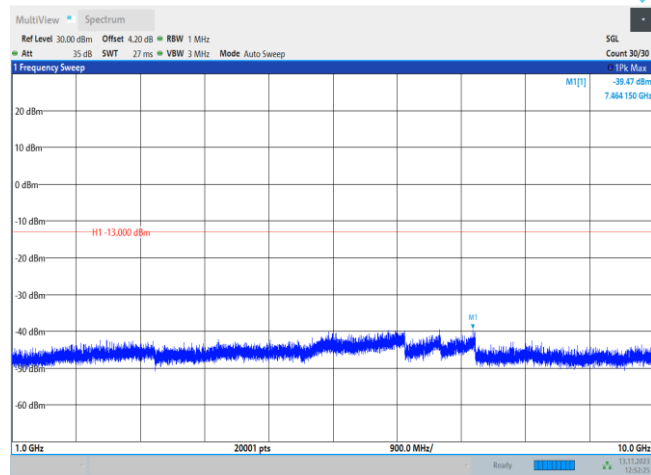
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



12:52:21 13.11.2023

Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band5\_ 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	42.44	-48.22	25.27	-75.77	-13.00	62.77	Horizontal
2	2473.7700	41.66	-47.32	27.23	-73.69	-13.00	60.69	Horizontal
3	3298.3600	40.97	-46.68	28.48	-72.49	-13.00	59.49	Horizontal
4	4122.9500	39.75	-45.91	29.40	-72.03	-13.00	59.03	Horizontal
5	4947.5400	40.65	-45.69	31.29	-69.01	-13.00	56.01	Horizontal
6	5772.1300	38.54	-44.64	32.65	-68.70	-13.00	55.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	43.34	-48.22	25.27	-74.87	-13.00	61.87	Vertical
2	2473.7700	42.22	-47.32	27.23	-73.13	-13.00	60.13	Vertical
3	3298.3600	41.53	-46.68	28.48	-71.93	-13.00	58.93	Vertical
4	4122.9500	40.13	-45.91	29.40	-71.65	-13.00	58.65	Vertical
5	4947.5400	41.45	-45.69	31.29	-68.21	-13.00	55.21	Vertical
6	5772.1300	39.39	-44.64	32.65	-67.85	-13.00	54.85	Vertical



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Test Band = LTE Band5\_ 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	41.83	-48.20	25.30	-76.34	-13.00	63.34	Horizontal
2	2496.2700	41.13	-47.28	27.29	-74.12	-13.00	61.12	Horizontal
3	3328.3600	41.67	-46.64	28.50	-71.73	-13.00	58.73	Horizontal
4	4160.4500	40.37	-45.94	29.49	-71.34	-13.00	58.34	Horizontal
5	4992.5400	40.08	-45.79	31.38	-69.59	-13.00	56.59	Horizontal
6	5824.6300	37.87	-44.74	32.67	-69.46	-13.00	56.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	42.93	-48.20	25.30	-75.24	-13.00	62.24	Vertical
2	2496.2700	41.97	-47.28	27.29	-73.28	-13.00	60.28	Vertical
3	3328.3600	41.81	-46.64	28.50	-71.59	-13.00	58.59	Vertical
4	4160.4500	40.37	-45.94	29.49	-71.34	-13.00	58.34	Vertical
5	4992.5400	40.66	-45.79	31.38	-69.01	-13.00	56.01	Vertical
6	5824.6300	38.95	-44.74	32.67	-68.38	-13.00	55.38	Vertical



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Test Band = LTE Band5\_ 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	41.59	-48.18	25.32	-76.54	-13.00	63.54	Horizontal
2	2518.7700	40.61	-47.21	27.34	-74.52	-13.00	61.52	Horizontal
3	3358.3600	40.94	-46.60	28.52	-72.40	-13.00	59.40	Horizontal
4	4197.9500	38.91	-45.96	29.58	-72.73	-13.00	59.73	Horizontal
5	5037.5400	39.27	-45.65	31.49	-70.15	-13.00	57.15	Horizontal
6	5887.1300	38.62	-44.93	32.68	-68.89	-13.00	55.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.78	-48.18	25.32	-75.35	-13.00	62.35	Vertical
2	2518.7700	42.69	-47.21	27.34	-72.44	-13.00	59.44	Vertical
3	3358.3600	41.60	-46.60	28.52	-71.74	-13.00	58.74	Vertical
4	4197.9500	40.00	-45.96	29.58	-71.64	-13.00	58.64	Vertical
5	5037.5400	40.84	-45.65	31.49	-68.58	-13.00	55.58	Vertical
6	5887.1300	39.20	-44.93	32.68	-68.31	-13.00	55.31	Vertical



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Test Band = LTE 5A\_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	1649.1800	42.27	-45.59	28.30	-70.28	-25.00	45.28	Horizontal
2	2473.7700	42.27	-45.59	28.30	-70.28	-25.00	45.28	Horizontal
3	3298.3600	40.89	-46.45	28.48	-72.34	-25.00	47.34	Horizontal
4	5002.1800	39.79	-45.63	31.41	-69.70	-25.00	44.70	Horizontal
5	7503.2700	37.93	-43.13	36.60	-63.86	-25.00	38.86	Horizontal
6	10004.3600	30.77	-39.23	38.20	-65.52	-25.00	40.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1800	42.50	-45.59	28.30	-70.05	-25.00	45.05	Vertical
2	2473.7700	42.50	-45.59	28.30	-70.05	-25.00	45.05	Vertical
3	3298.3600	42.65	-46.45	28.48	-70.58	-25.00	45.58	Vertical
4	5002.1800	40.76	-45.63	31.41	-68.73	-25.00	43.73	Vertical
5	7503.2700	38.30	-43.13	36.60	-63.49	-25.00	38.49	Vertical
6	10004.3600	30.59	-39.23	38.20	-65.70	-25.00	40.70	Vertical



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Test Band = LTE 5A\_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	1664.1800	41.56	-45.59	28.30	-70.99	-25.00	45.99	Horizontal
2	2496.2700	41.56	-45.59	28.30	-70.99	-25.00	45.99	Horizontal
3	3328.3600	41.80	-46.41	28.50	-71.37	-25.00	46.37	Horizontal
4	5052.1800	39.46	-45.50	31.53	-69.77	-25.00	44.77	Horizontal
5	7578.2700	38.20	-42.98	36.63	-63.40	-25.00	38.40	Horizontal
6	10104.3600	30.85	-39.14	38.25	-65.29	-25.00	40.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.1800	42.18	-45.59	28.30	-70.37	-25.00	45.37	Vertical
2	2496.2700	42.18	-45.59	28.30	-70.37	-25.00	45.37	Vertical
3	3328.3600	41.73	-46.41	28.50	-71.44	-25.00	46.44	Vertical
4	5052.1800	40.73	-45.50	31.53	-68.50	-25.00	43.50	Vertical
5	7578.2700	37.92	-42.98	36.63	-63.68	-25.00	38.68	Vertical
6	10104.3600	30.71	-39.14	38.25	-65.43	-25.00	40.43	Vertical



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Test Band = LTE 5A\_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	1679.1800	42.84	-45.59	28.30	-69.71	-25.00	44.71	Horizontal
2	2518.7700	42.84	-45.59	28.30	-69.71	-25.00	44.71	Horizontal
3	3358.3600	41.98	-46.35	28.52	-71.12	-25.00	46.12	Horizontal
4	5102.1800	39.46	-45.37	31.65	-69.52	-25.00	44.52	Horizontal
5	7653.2700	38.34	-43.03	36.66	-63.29	-25.00	38.29	Horizontal
6	10204.3600	30.02	-39.48	38.30	-66.42	-25.00	41.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.1800	42.79	-45.59	28.30	-69.76	-25.00	44.76	Vertical
2	2518.7700	42.79	-45.59	28.30	-69.76	-25.00	44.76	Vertical
3	3358.3600	43.78	-46.35	28.52	-69.32	-25.00	44.32	Vertical
4	5102.1800	40.32	-45.37	31.65	-68.66	-25.00	43.66	Vertical
5	7653.2700	38.19	-43.03	36.66	-63.44	-25.00	38.44	Vertical
6	10204.3600	31.81	-39.48	38.30	-64.63	-25.00	39.63	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

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.20	0.000239	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS

---End of Attachment---



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