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Appendix B.13

LTE Band 30



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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt3

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.63	19.83	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.63	19.83	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.72	19.92	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.92	19.12	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.56	19.76	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.77	19.97	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.7	19.9	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.92	19.12	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.44	19.64	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.8	20	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.71	19.91	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.9	19.1	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22	19.2	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.97	19.17	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.09	19.29	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.91	18.11	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.97	19.17	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.95	19.15	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.05	19.25	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.92	18.12	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.99	19.19	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.02	19.22	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.91	19.11	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.92	18.12	23.98	PASS



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Band30	5MHz	64QAM	27685	1RB#0	20.93	18.13	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.98	18.18	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.06	18.26	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	19.88	17.08	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	21.11	18.31	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.05	18.25	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	21.02	18.22	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.89	17.09	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	21.07	18.27	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.05	18.25	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	21	18.2	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.87	17.07	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.85	15.05	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.95	15.15	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.98	15.18	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.89	15.09	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	18.01	15.21	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.98	15.18	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.93	15.13	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.88	15.08	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.98	15.18	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	18.02	15.22	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.95	15.15	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.84	15.04	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.63	19.83	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.6	19.8	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.66	19.86	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.73	18.93	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.89	19.09	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.88	19.08	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.9	19.1	23.98	PASS



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Band30	10MHz	64QAM	27710	1RB#0	20.99	18.19	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.92	18.12	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.98	18.18	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.71	16.91	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.82	15.02	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.78	14.98	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.8	15	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.69	14.89	23.98	PASS



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EIRP Density Result

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	21.51	18.71	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	21.65	18.85	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	19.98	17.18	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	21.60	18.8	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	21.71	18.91	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	20.02	17.22	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	21.77	18.97	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	21.81	19.01	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	20.04	17.24	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	21.62	18.82	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	21.76	18.96	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	18.26	15.46	23.98	PASS



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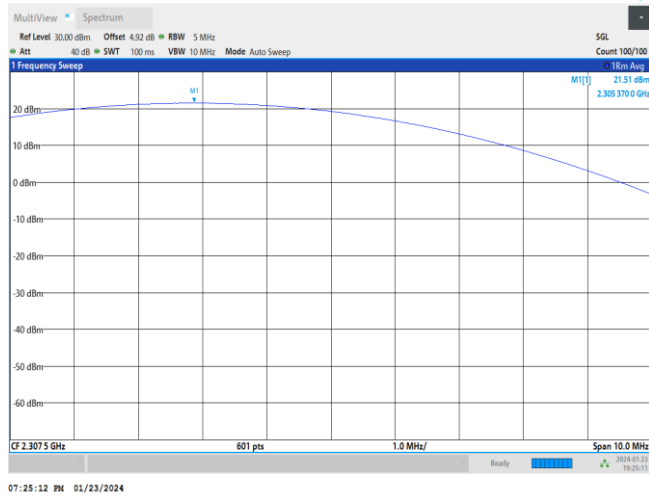
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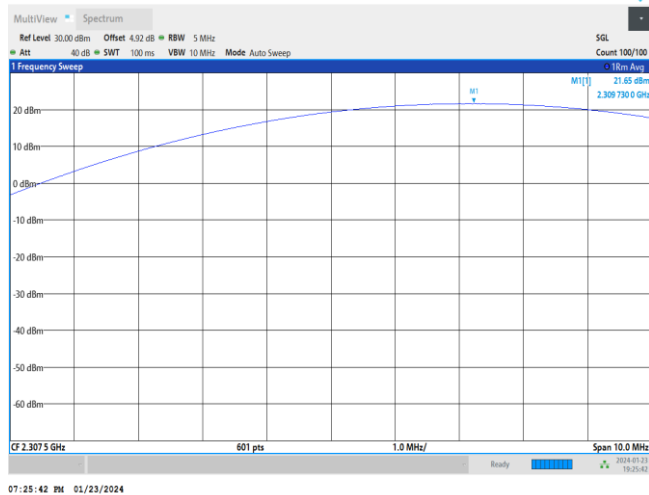


Test Graphs

Band30-5MHz-QPSK-27685-1RB#0



Band30-5MHz-QPSK-27685-1RB#24



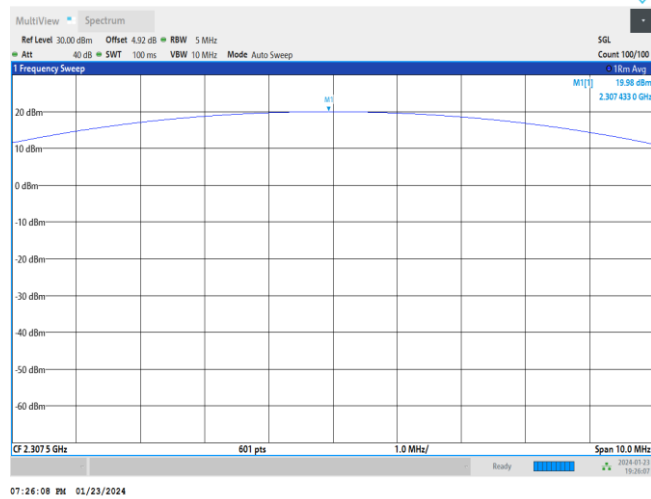
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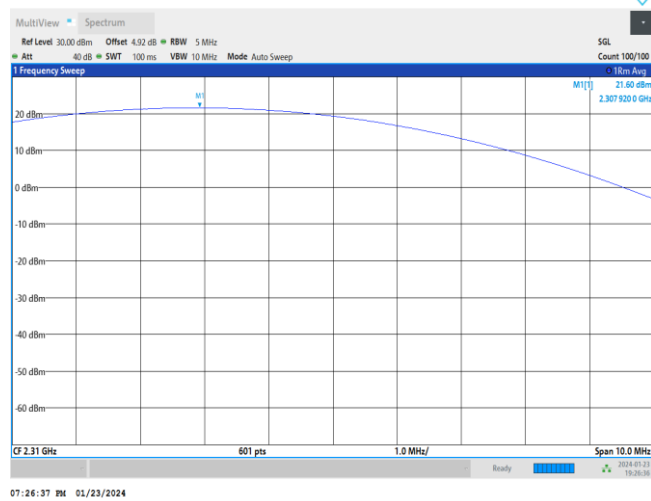
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Band30-5MHz-QPSK-27685-25RB#0



Band30-5MHz-QPSK -27710-1RB#0



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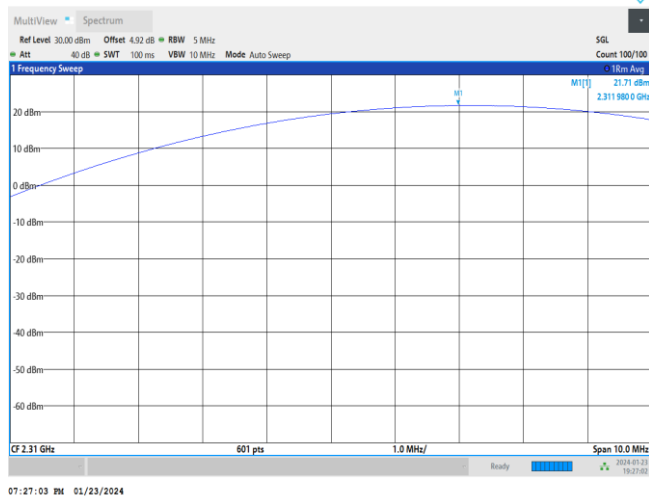
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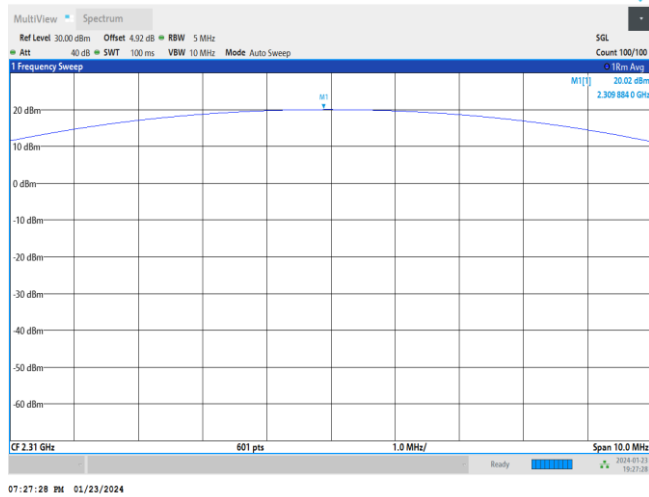
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Band30-5MHz-QPSK -27710-1RB#24



Band30-5MHz-QPSK -27710-25RB#0



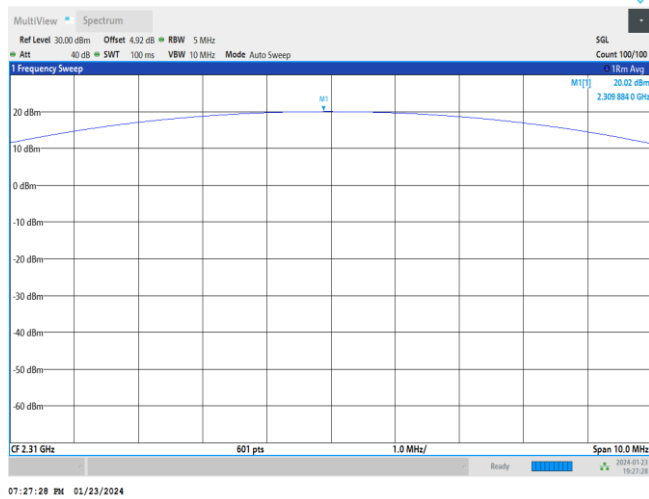
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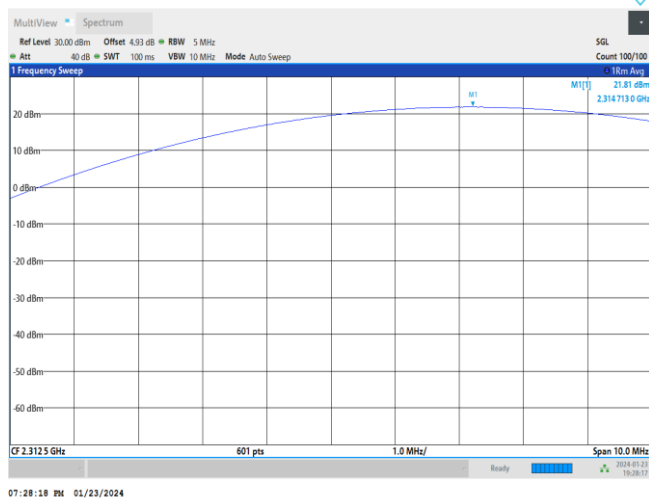
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Band30-5MHz-QPSK -27735-1RB#0



Band30-5MHz-QPSK-27735-1RB#24



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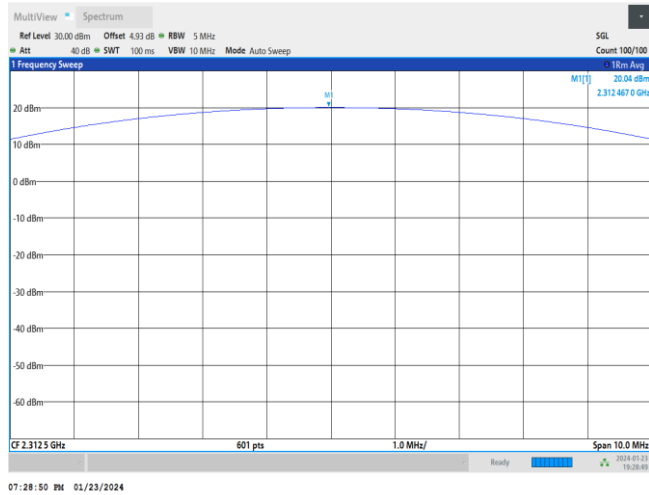


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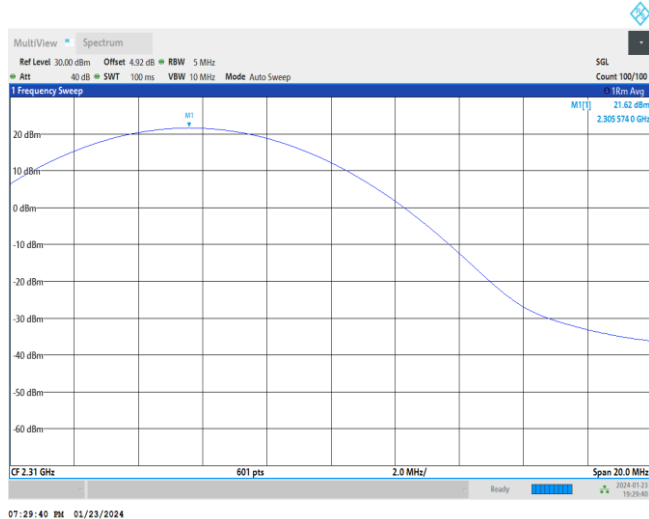
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Band30-5MHz-QPSK -27735-25RB#0



Band30-10MHz-QPSK-27710-1RB#0



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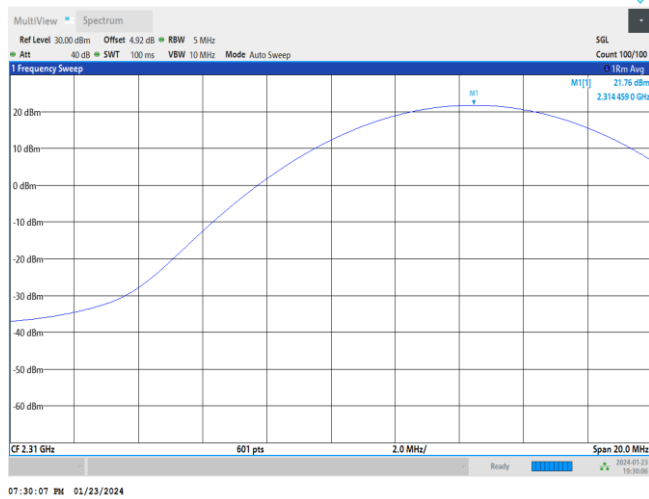


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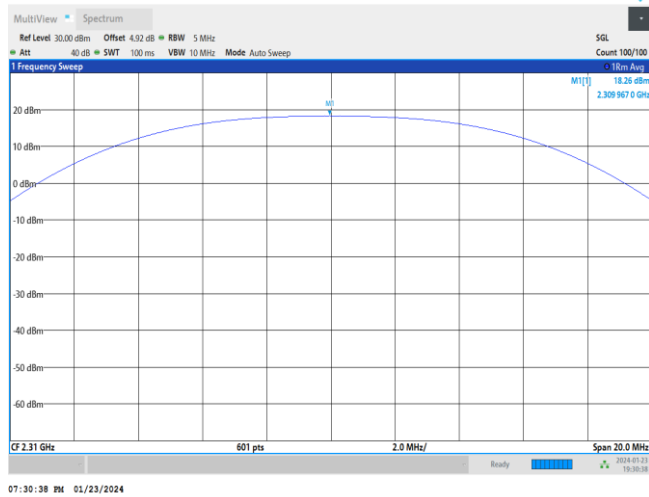
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Band30-10MHz-QPSK-27710-1RB#49



Band30-10MHz-QPSK-27710-50RB#0



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	4.48	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	5.04	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	5.02	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.74	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	5.50	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.28	13	PASS
Band30	10MHz	256QAM	27710	1RB#0	6.86	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.74	13	PASS



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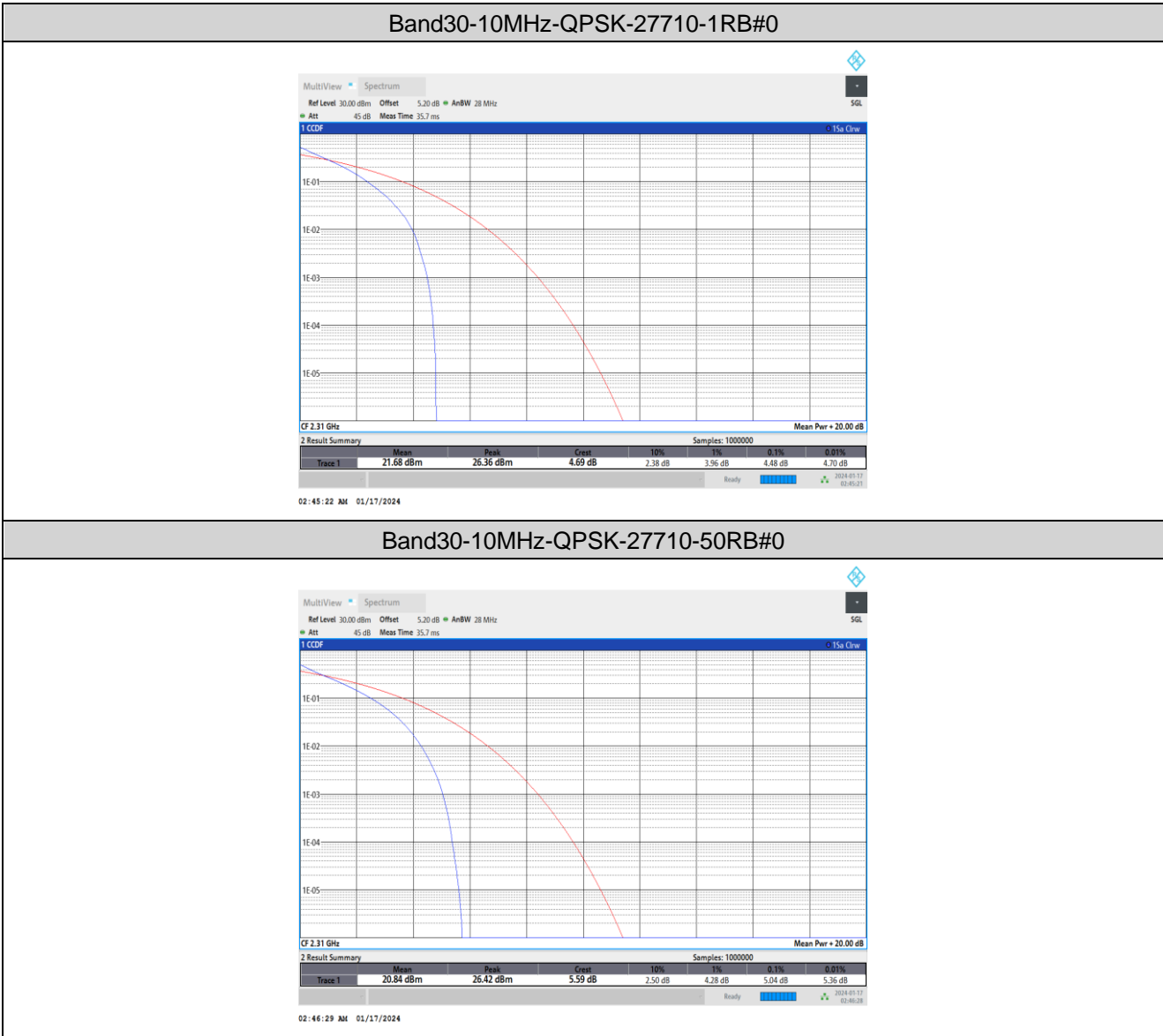
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Test Graphs



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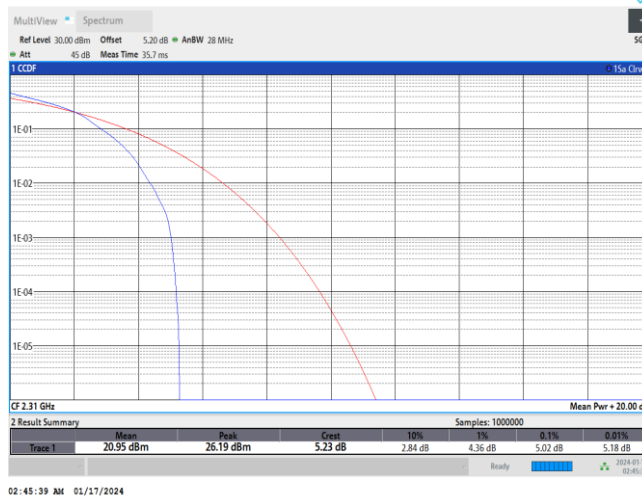


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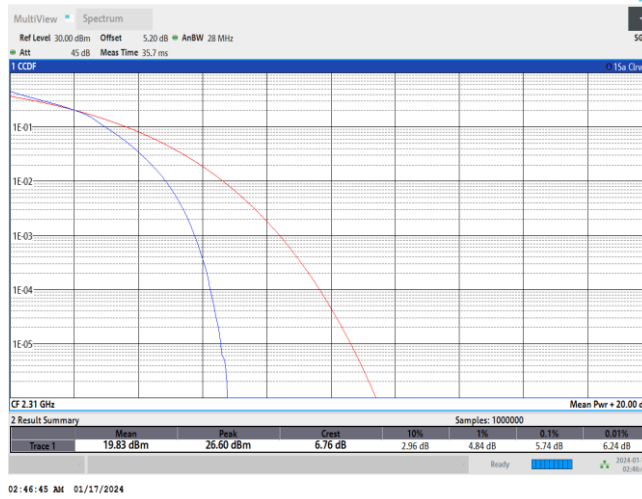
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Band30-10MHz-16QAM-27710-1RB#0



Band30-10MHz-16QAM-27710-50RB#0



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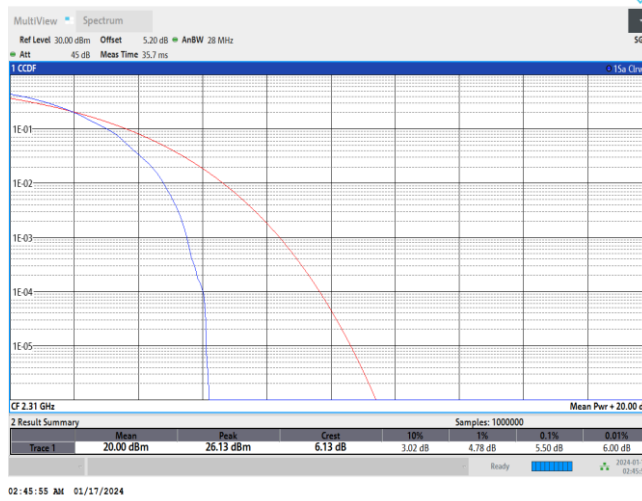
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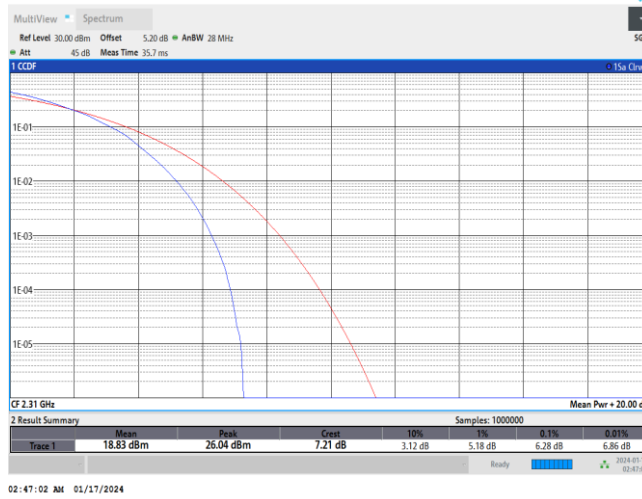
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Band30-10MHz-64QAM-27710-1RB#0



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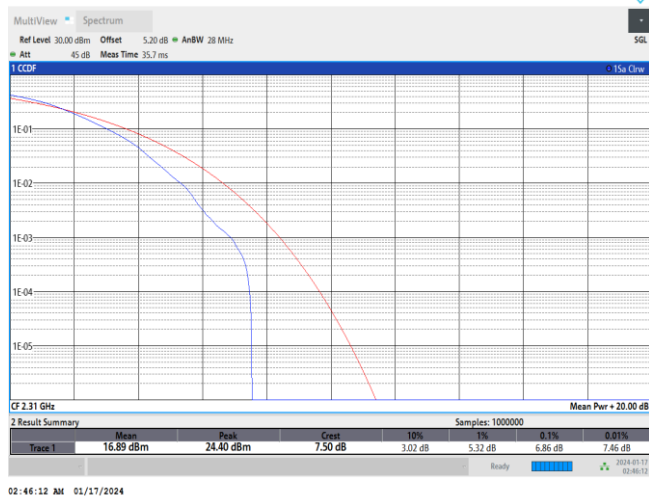
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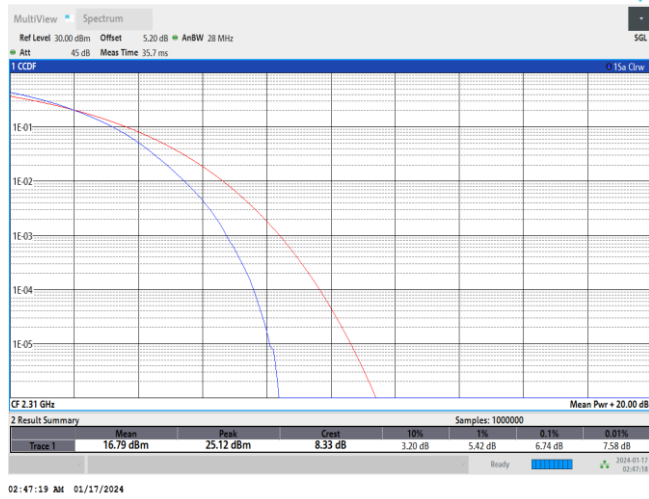
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Band30-10MHz-256QAM-27710-1RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27710	25RB#0	4.496	4.77	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.499	4.77	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.505	4.78	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.499	4.77	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.991	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.982	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.996	9.57	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.982	9.53	PASS



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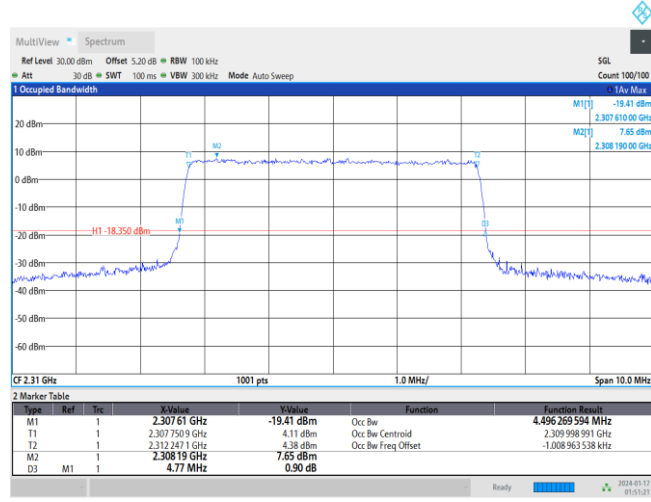
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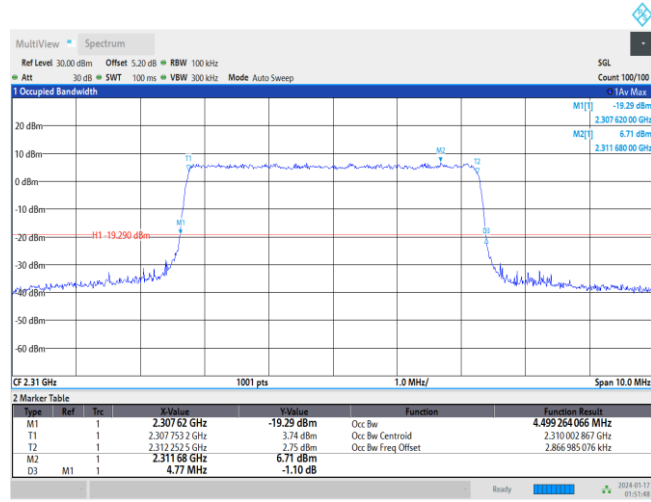
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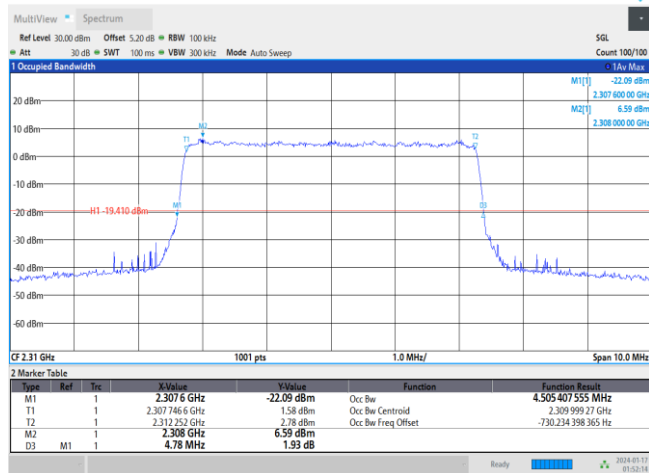
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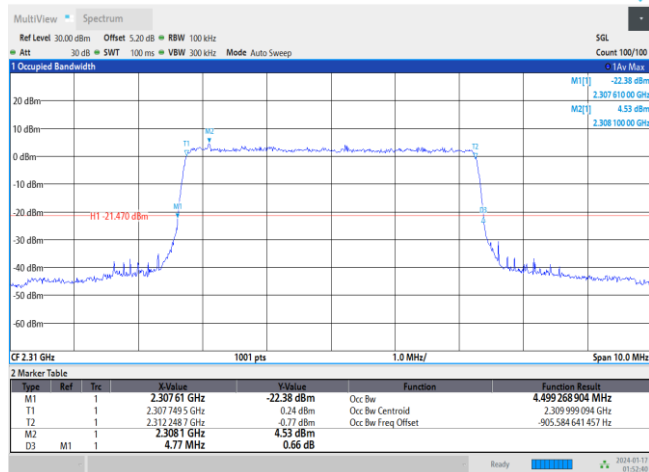
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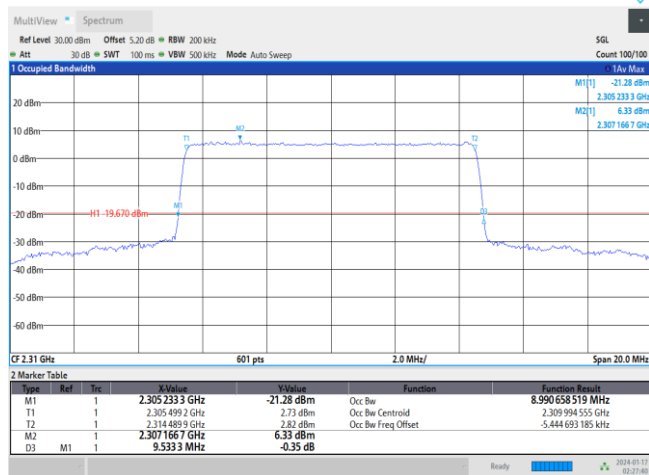


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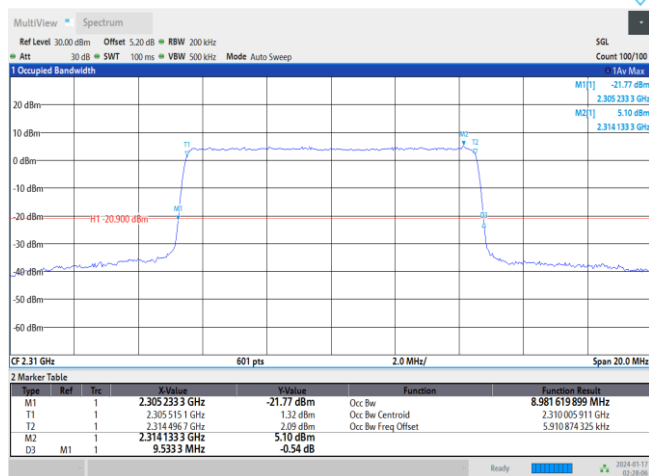
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Band30-10MHz-16QAM-27710-50RB#0



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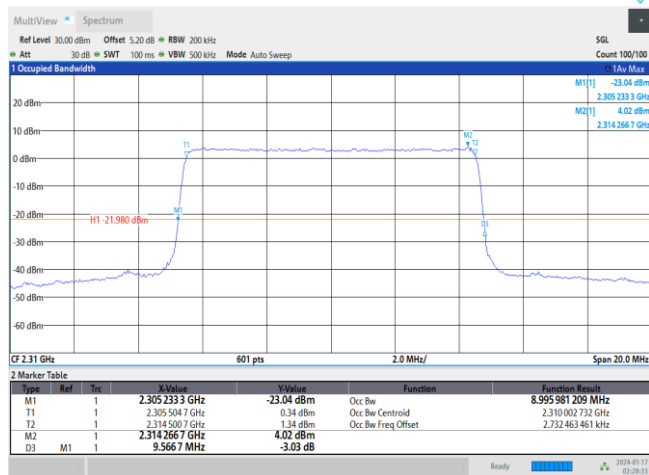


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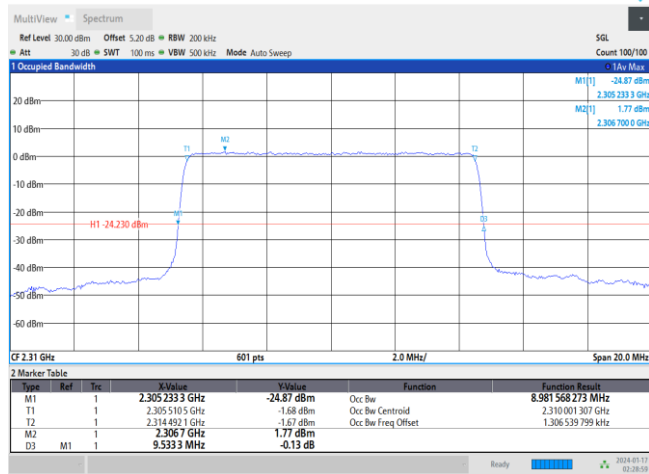
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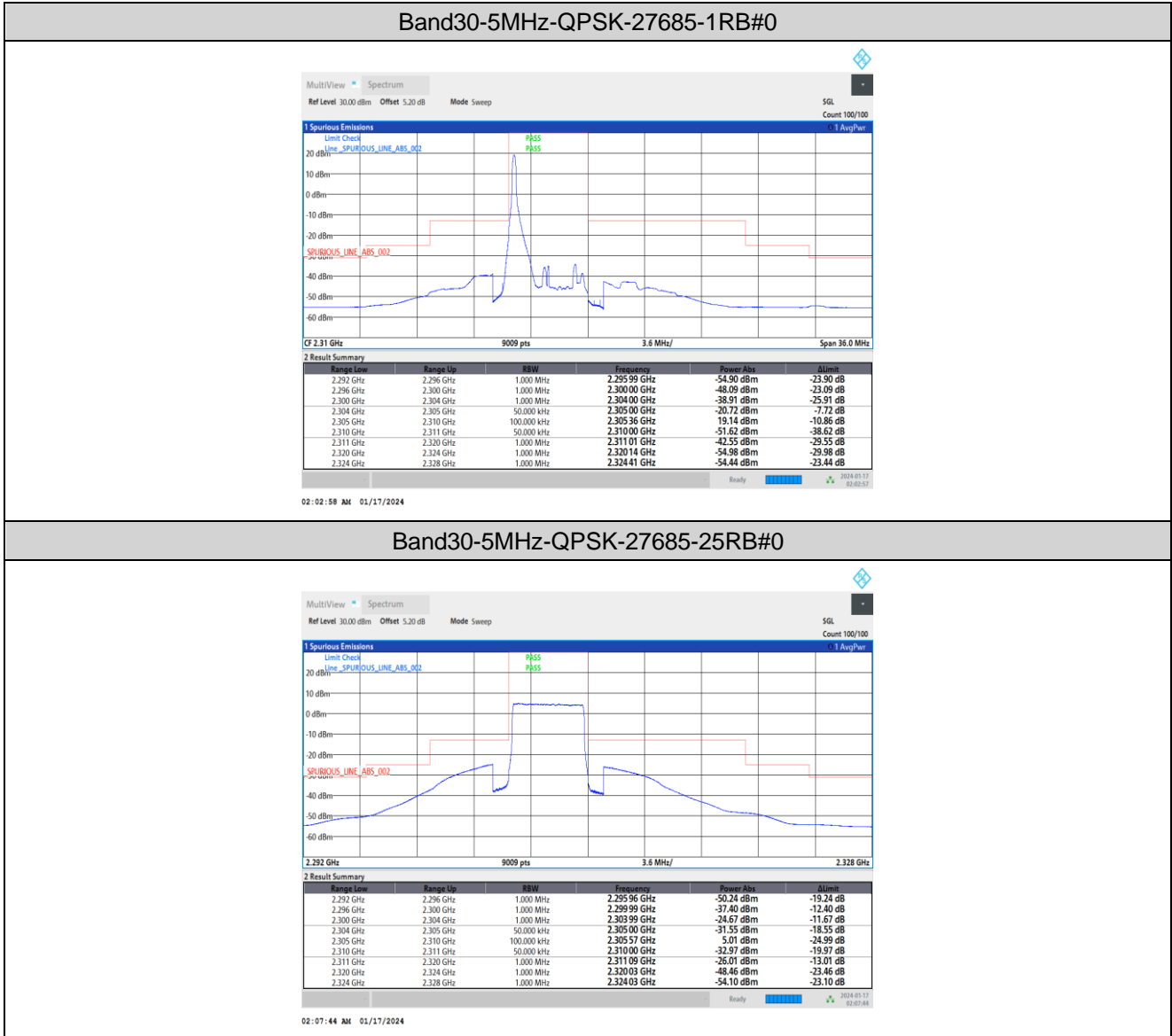


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Band Edge

Test Graphs



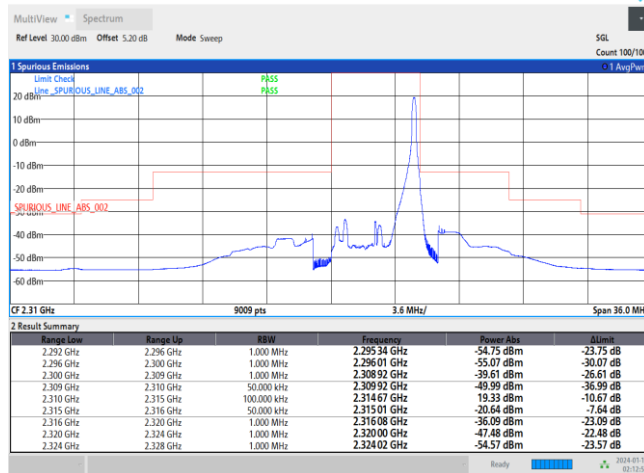
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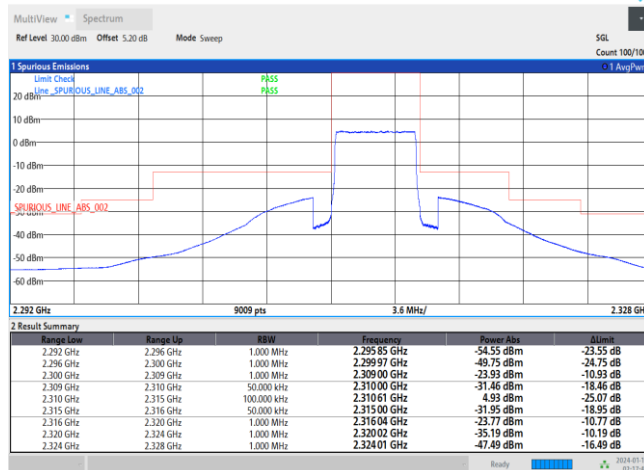
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Band30-5MHz-QPSK-27735-1RB#24



02:12:56 AM 01/17/2024

Band30-5MHz-QPSK-27735-25RB#0



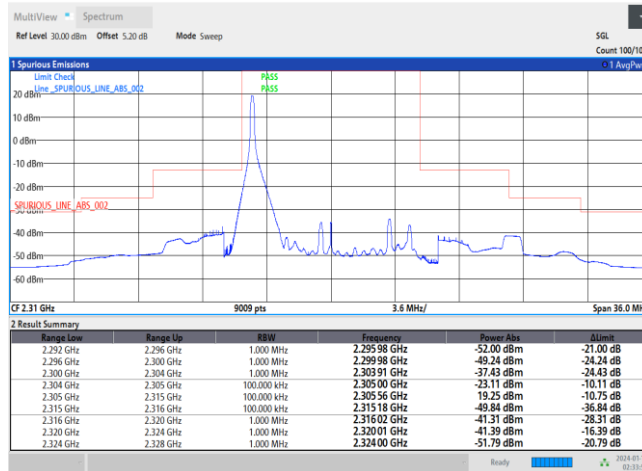
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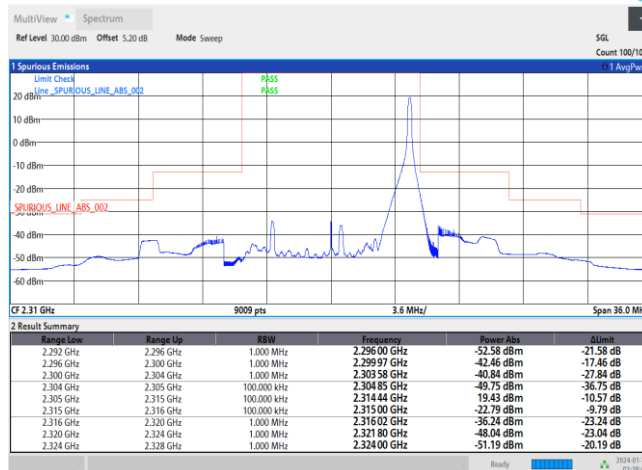
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Band30-10MHz-QPSK-27710-1RB#0



02:33:58 AM 01/17/2024

Band30-10MHz-QPSK-27710-1RB#49



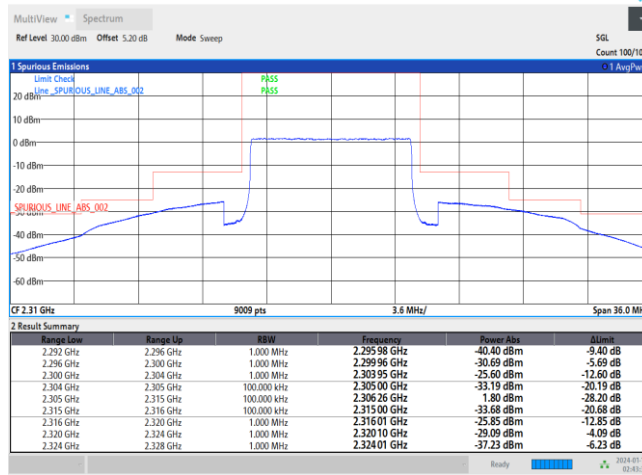
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Band30-10MHz-QPSK-27710-50RB#0



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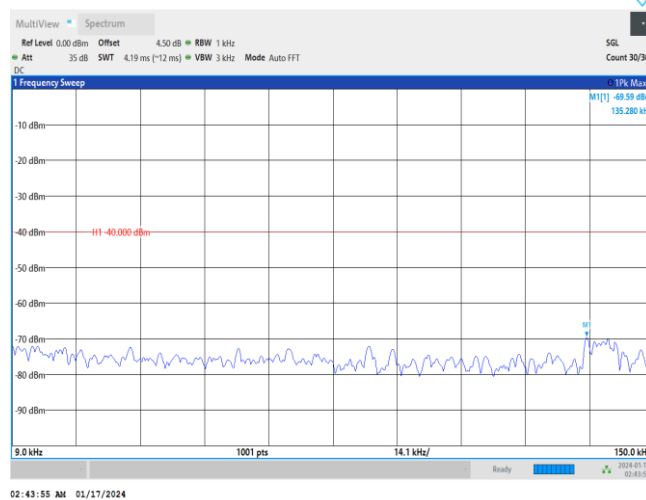
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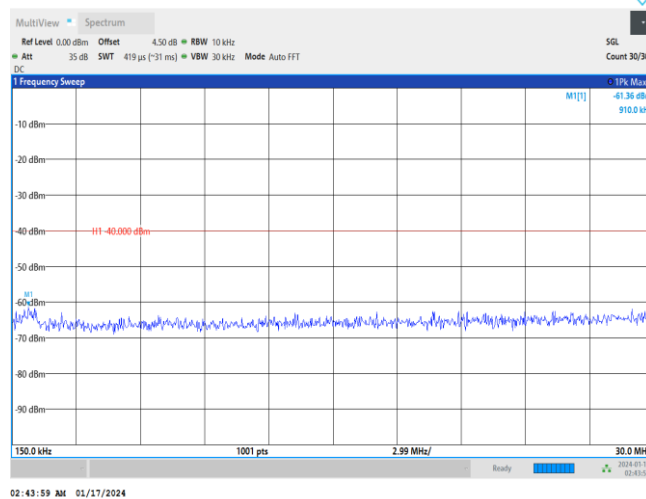
Conducted Spurious Emission

Test Graphs

Band30-10MHz-QPSK-27710-1RB#0-Range1:0.009~0.15MHz



Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz



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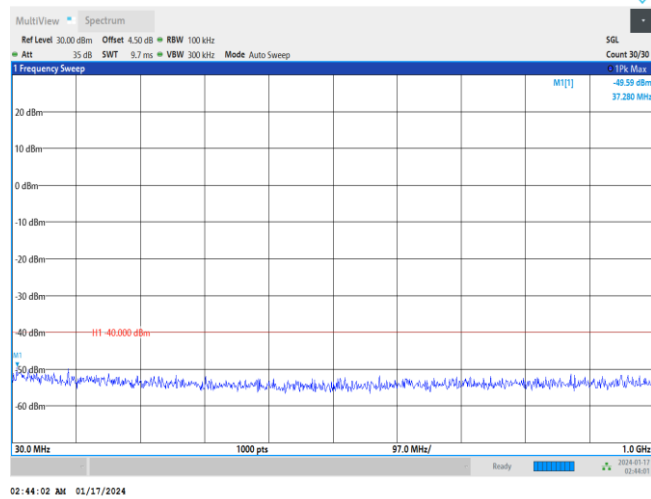
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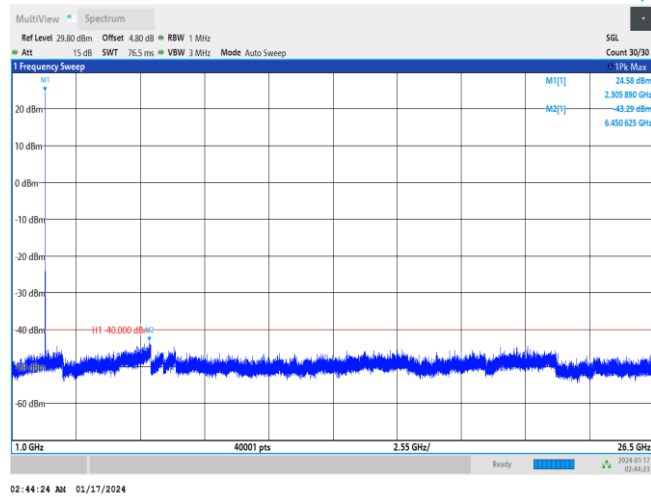
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26500MHz



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Report No.: SEWM2311000466RG01

Rev.: 01

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Field Strength of Spurious Radiation

Test Band = LTE Band30_10M_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	4611.1800	49.52	-45.66	30.55	-60.86	-40.00	20.86	Horizontal
2	6916.7700	50.29	-44.01	35.05	-53.93	-40.00	13.93	Horizontal
3	9222.3600	36.61	-40.24	36.72	-62.17	-40.00	22.17	Horizontal
4	11527.9500	30.44	-37.20	38.75	-63.26	-40.00	23.26	Horizontal
5	13833.5400	29.87	-36.08	40.60	-60.87	-40.00	20.87	Horizontal
6	16139.1300	29.27	-34.58	39.63	-60.94	-40.00	20.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4611	48.85	-45.66	30.54	-61.53	-40.00	21.53	Vertical
2	6916.5	53.42	-44.01	35.05	-50.80	-40.00	10.80	Vertical
3	9222.3600	41.69	-40.24	36.72	-57.09	-40.00	17.09	Vertical
4	11527.9500	31.97	-37.20	38.75	-61.73	-40.00	21.73	Vertical
5	13833.5400	30.61	-36.08	40.60	-60.13	-40.00	20.13	Vertical
6	16139.1300	29.22	-34.58	39.63	-60.99	-40.00	20.99	Vertical



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Report No.: SEWM2311000466RG01

Rev.: 01

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Test Band = LTE Band30_5M_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	4610.6800	49.40	-45.66	30.54	-60.98	-40.00	20.98	Horizontal
2	6916	50.44	-44.01	35.05	-53.78	-40.00	13.78	Horizontal
3	9221.3600	36.82	-40.24	36.72	-61.96	-40.00	21.96	Horizontal
4	11526.7000	30.61	-37.20	38.75	-63.10	-40.00	23.10	Horizontal
5	13832.0400	30.91	-36.09	40.60	-59.84	-40.00	19.84	Horizontal
6	16137.3800	28.67	-34.58	39.63	-61.54	-40.00	21.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.5	50.90	-45.66	30.54	-59.48	-40.00	19.48	Vertical
2	6916	53.65	-44.01	35.05	-50.57	-40.00	10.57	Vertical
3	9221.3600	42.05	-40.24	36.72	-56.73	-40.00	16.73	Vertical
4	11526.7000	30.65	-37.20	38.75	-63.06	-40.00	23.06	Vertical
5	13832.0400	29.89	-36.09	40.60	-60.86	-40.00	20.86	Vertical
6	16137.3800	28.47	-34.58	39.63	-61.74	-40.00	21.74	Vertical



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Test Band = LTE Band30_5M_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	4615.6800	47.00	-45.66	30.56	-63.36	-40.00	23.36	Horizontal
2	6923.5	49.12	-43.97	35.06	-55.05	-40.00	15.05	Horizontal
3	9231.3600	36.30	-40.24	36.74	-62.46	-40.00	22.46	Horizontal
4	11539.2000	29.33	-37.15	38.75	-64.32	-40.00	24.32	Horizontal
5	13847.0400	30.63	-35.95	40.63	-59.95	-40.00	19.95	Horizontal
6	16154.8800	28.91	-34.60	39.68	-61.26	-40.00	21.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.6800	45.46	-45.66	30.56	-64.90	-40.00	24.90	Vertical
2	6923.5200	49.29	-43.97	35.06	-54.87	-40.00	14.87	Vertical
3	9231.3600	41.33	-40.24	36.74	-57.43	-40.00	17.43	Vertical
4	11539.2000	29.89	-37.15	38.75	-63.76	-40.00	23.76	Vertical
5	13847.0400	29.71	-35.95	40.63	-60.87	-40.00	20.87	Vertical
6	16154.8800	28.43	-34.60	39.68	-61.74	-40.00	21.74	Vertical



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Test Band = LTE Band30_5M_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	4620.5	50.46	-45.66	30.57	-59.89	-40.00	19.89	Horizontal
2	6931	50.03	-43.93	35.08	-54.08	-40.00	14.08	Horizontal
3	9241.3600	35.34	-40.24	36.76	-63.40	-40.00	23.40	Horizontal
4	11551.7000	30.31	-37.10	38.76	-63.29	-40.00	23.29	Horizontal
5	13862.0400	28.36	-35.81	40.65	-62.05	-40.00	22.05	Horizontal
6	16172.3800	27.71	-34.61	39.73	-62.43	-40.00	22.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.6800	45.68	-45.66	30.57	-64.67	-40.00	24.67	Vertical
2	6931.0200	51.69	-43.93	35.08	-52.42	-40.00	12.42	Vertical
3	9241.3600	39.09	-40.24	36.76	-59.65	-40.00	19.65	Vertical
4	11551.7000	28.98	-37.10	38.76	-64.62	-40.00	24.62	Vertical
5	13862.0400	28.58	-35.81	40.65	-61.83	-40.00	21.83	Vertical
6	16172.3800	27.63	-34.61	39.73	-62.51	-40.00	22.51	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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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-13.50	-0.005844	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-0.80	-0.000346	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	7.00	0.003030	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-8.40	-0.003636	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-12.30	-0.005325	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	9.40	0.004069	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	11.30	0.004892	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	10.20	0.004416	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	6.30	0.003652	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	5.60	0.002436	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	4.50	0.002546	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	6.30	0.005243	PASS

---End of Attachment---



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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

Member of the SGS Group (SGS SA)