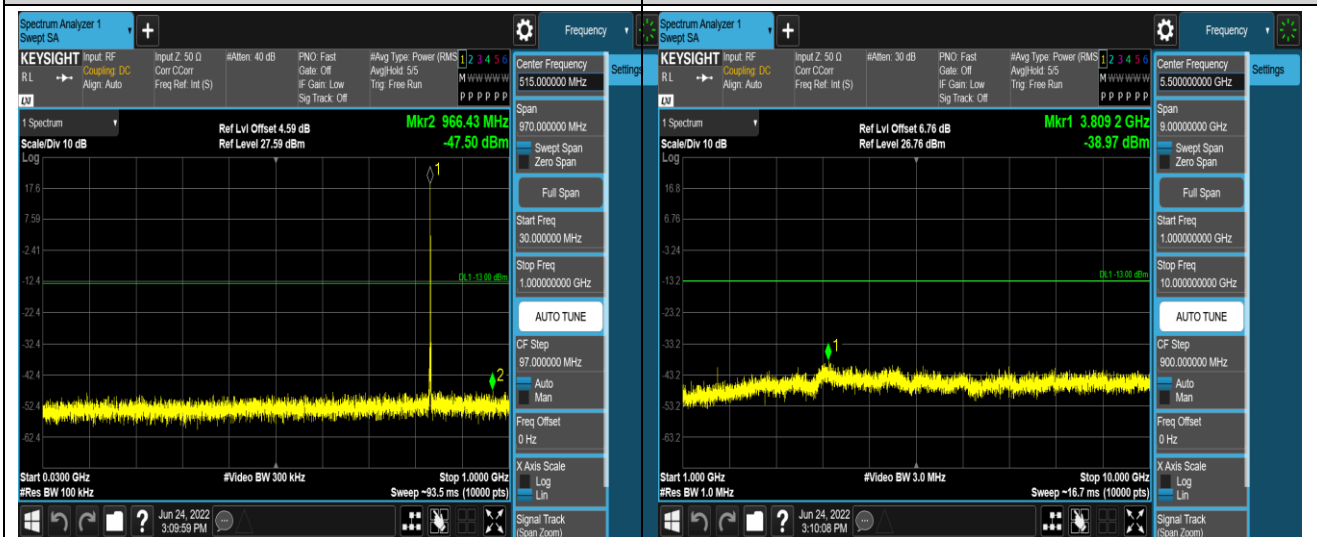




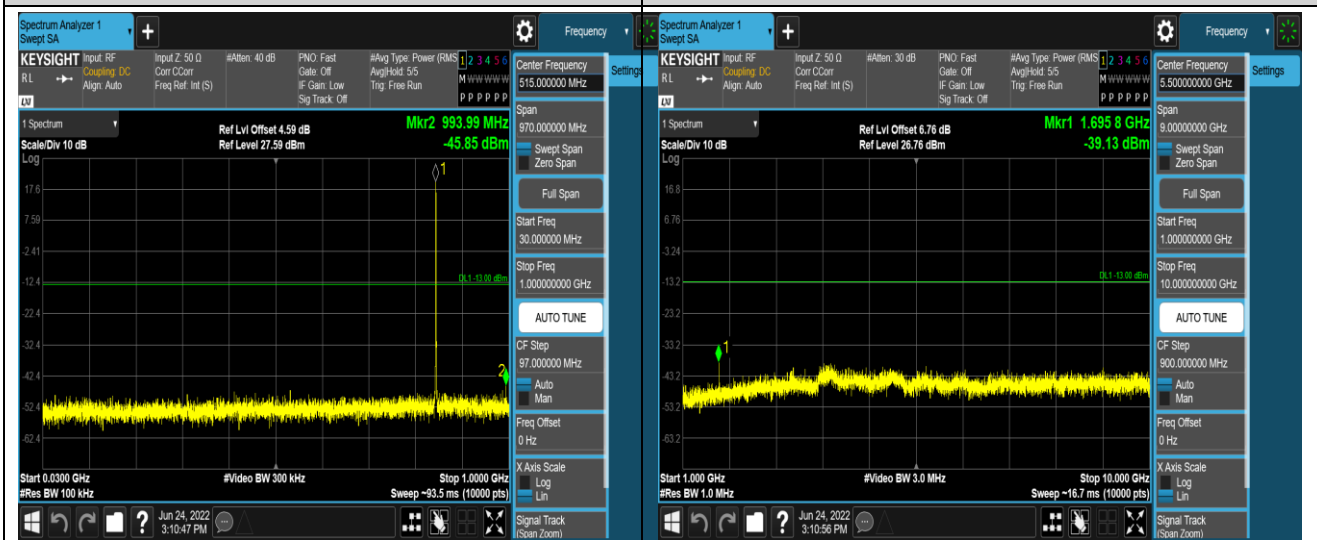
Band5-1.4MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

Band5-1.4MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Band5-1.4MHz-QPSK-20643-1RB#0-Range1:30~1000MHz

Band5-1.4MHz-QPSK-20643-1RB#0-Range2:1000~10000MHz

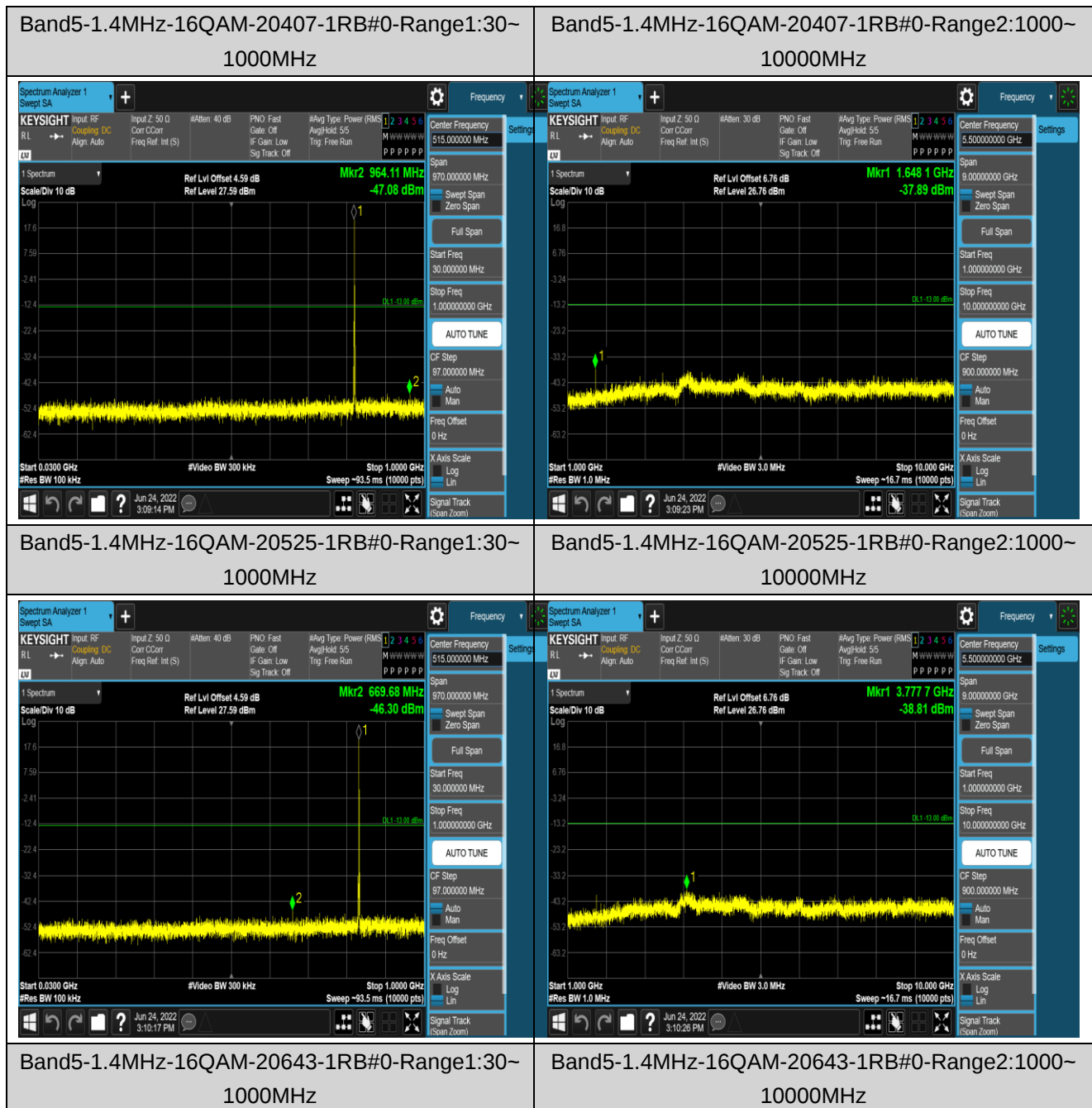


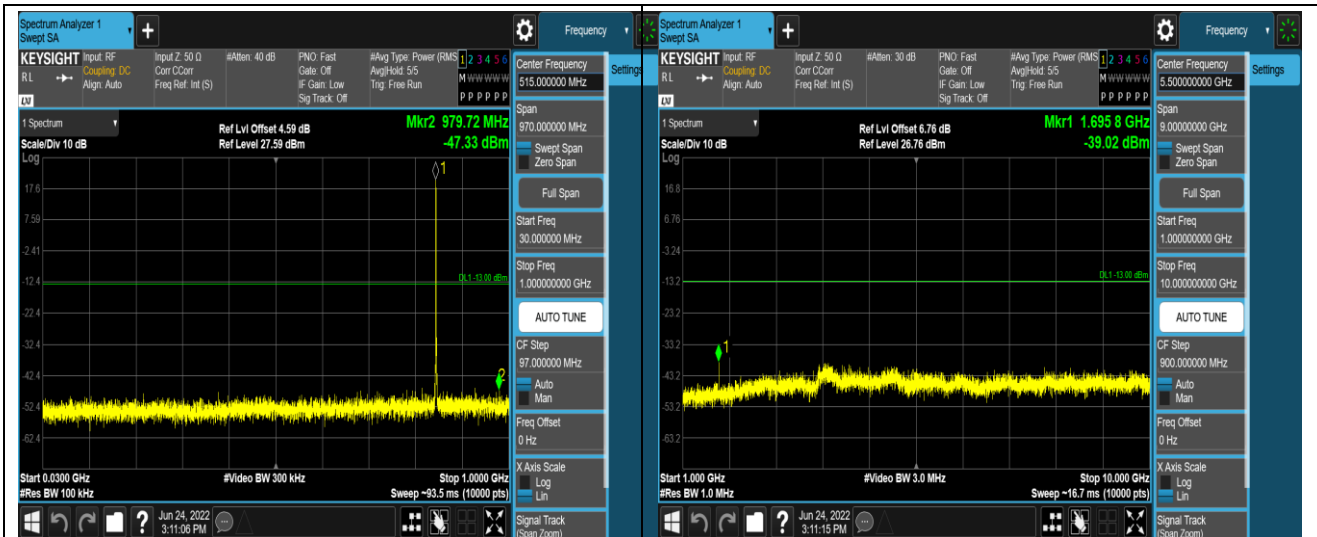
JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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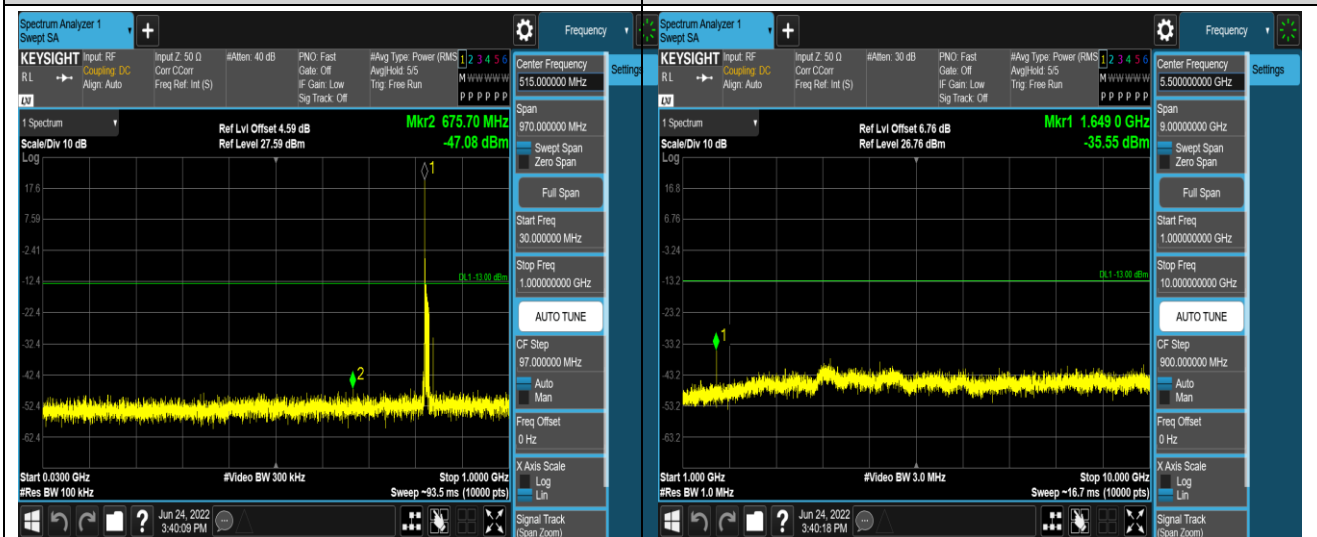
Project No.: JYTSZR2206046





Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz

Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz

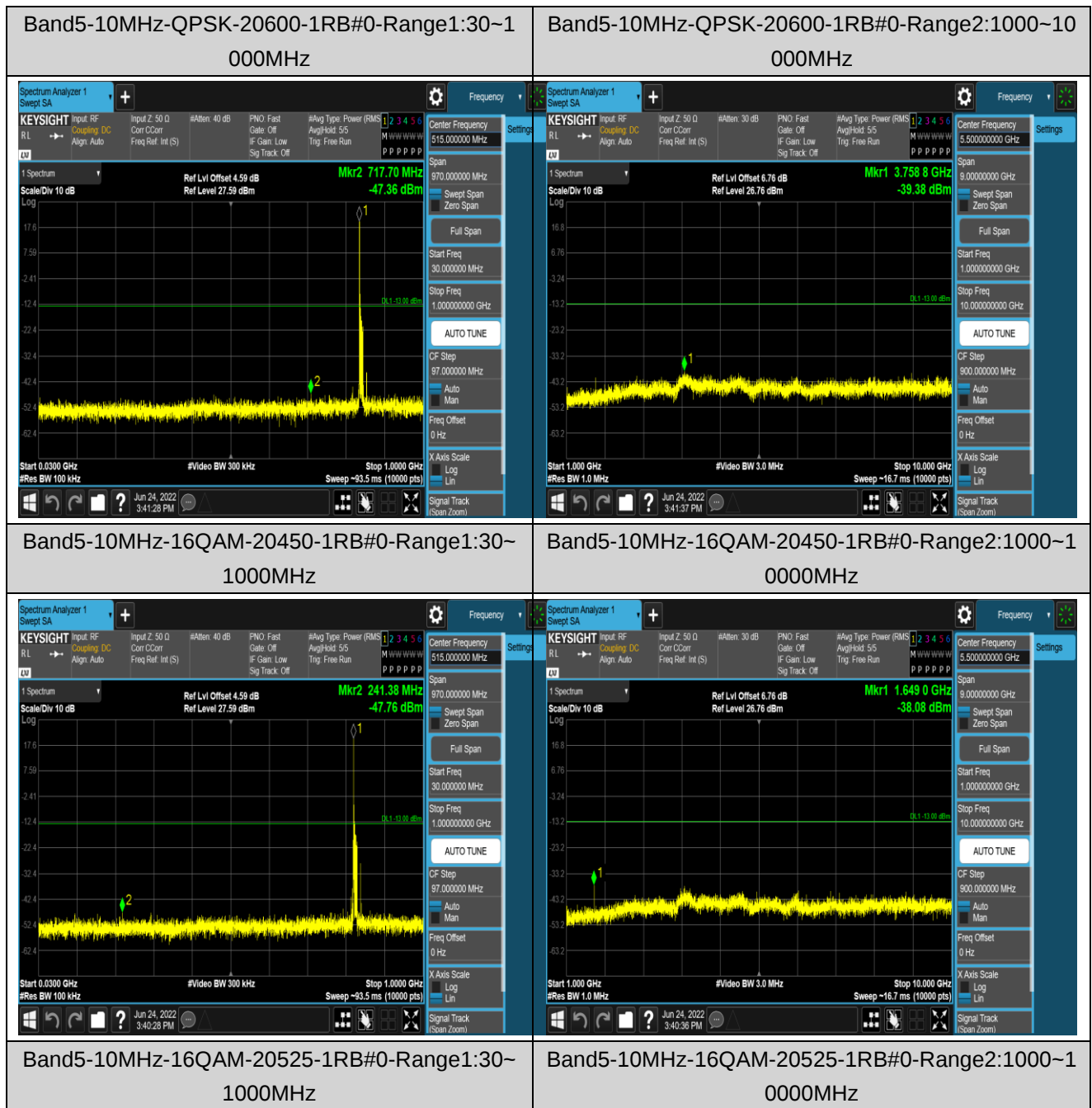


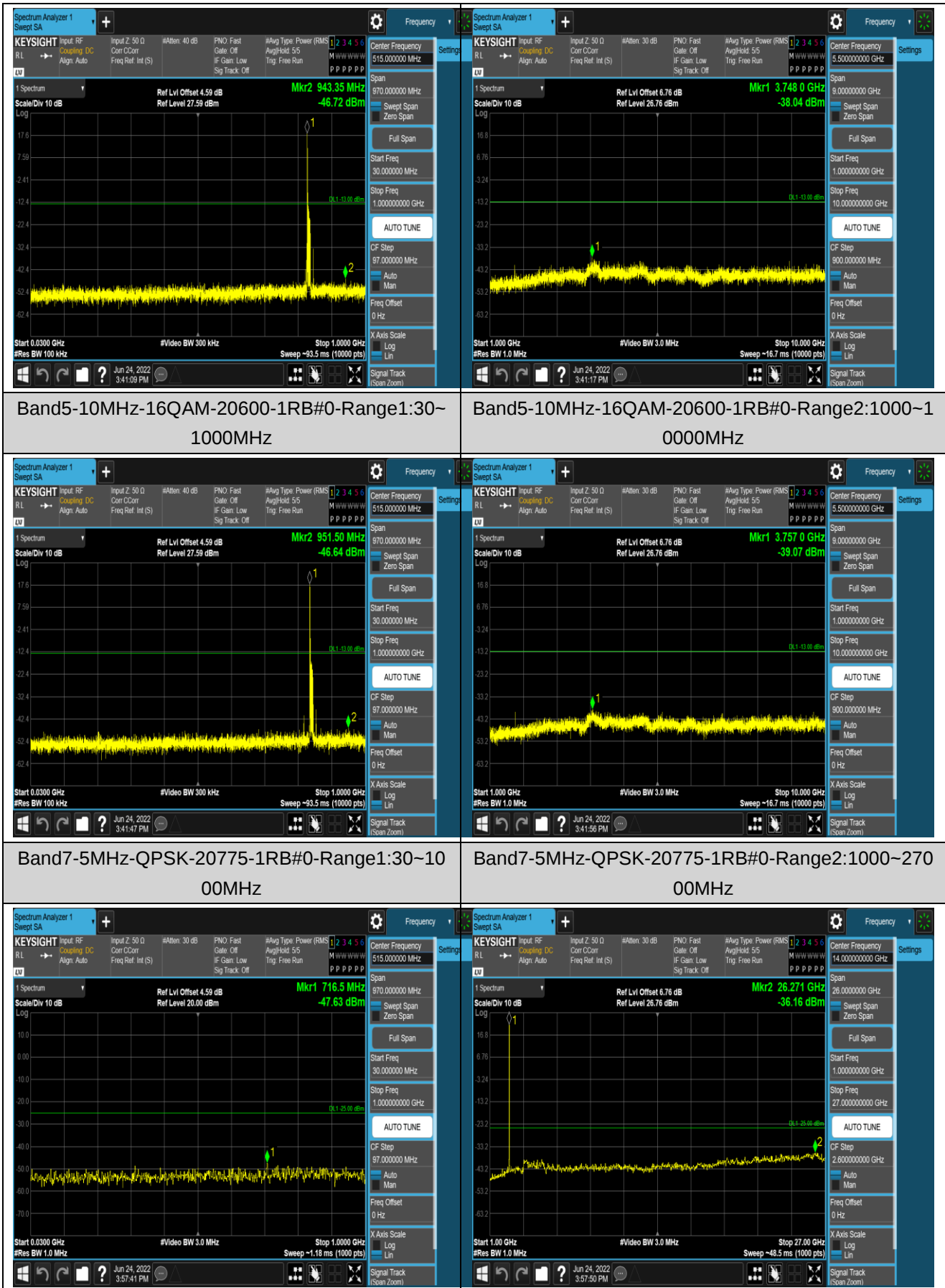
JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Project No.: JYTSZR2206046



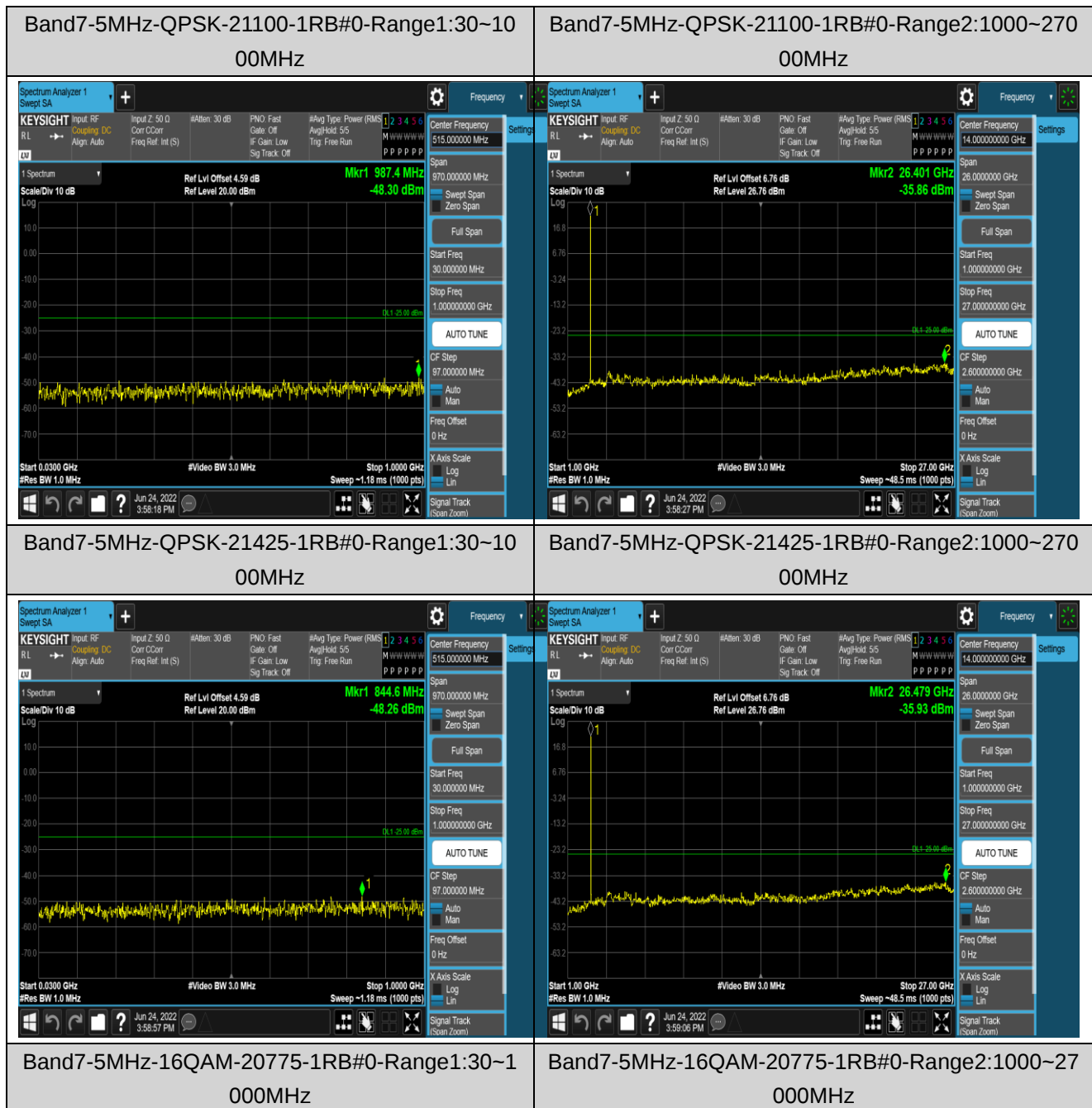


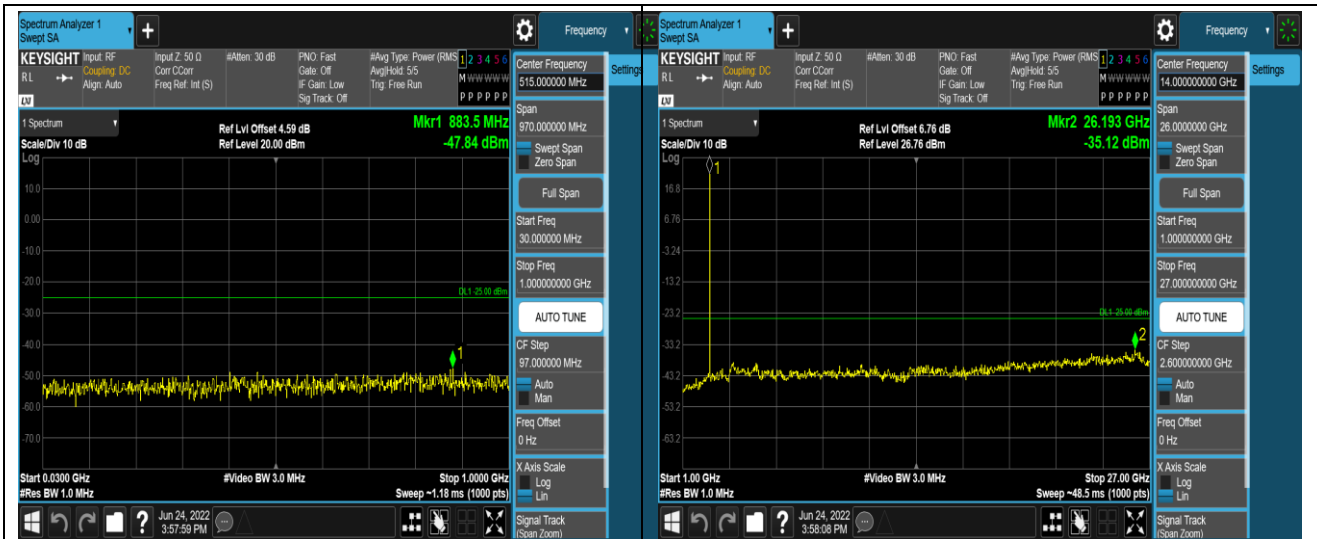
JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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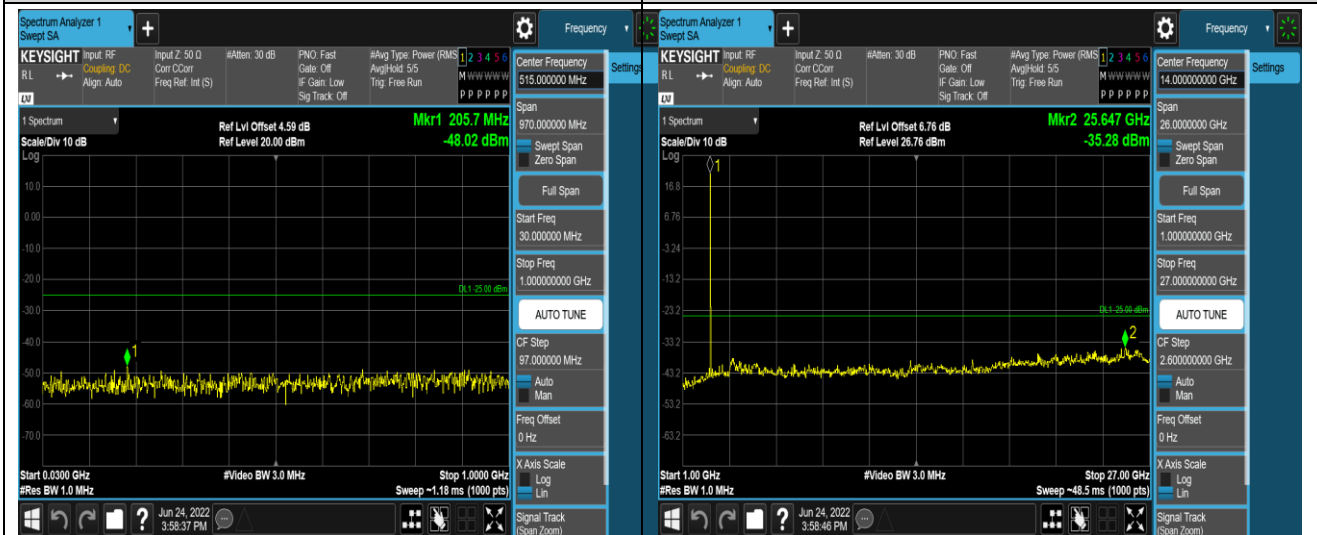
Project No.: JYTSZR2206046





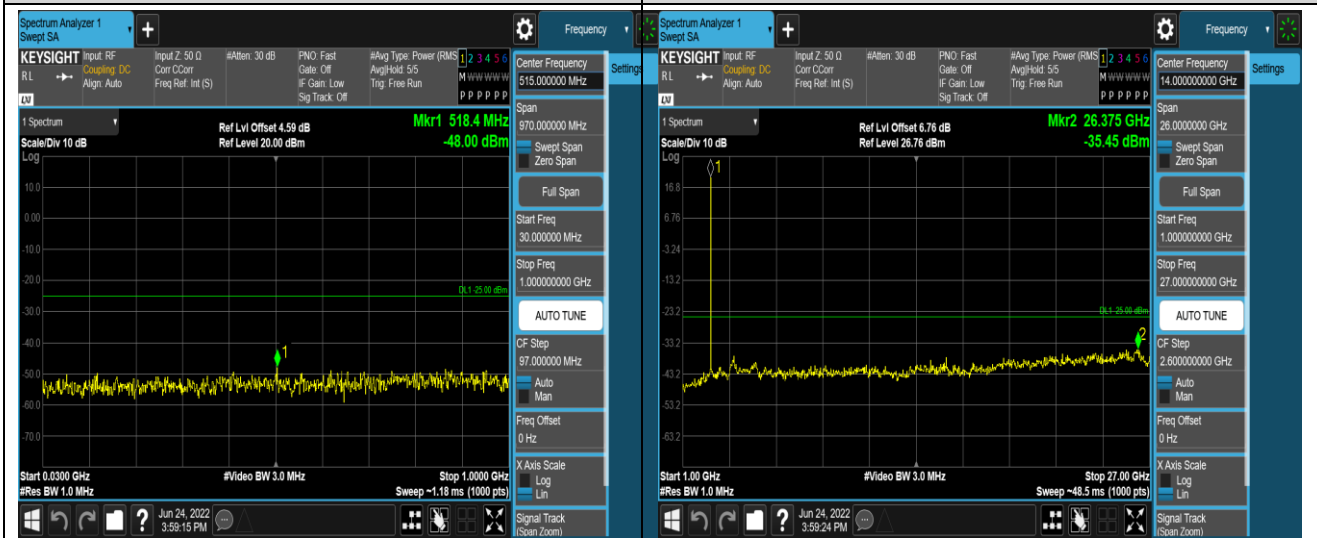
Band7-5MHz-16QAM-21100-1RB#0-Range1:30~1000MHz

Band7-5MHz-16QAM-21100-1RB#0-Range2:1000~27000MHz



Band7-5MHz-16QAM-21425-1RB#0-Range1:30~1000MHz

Band7-5MHz-16QAM-21425-1RB#0-Range2:1000~27000MHz

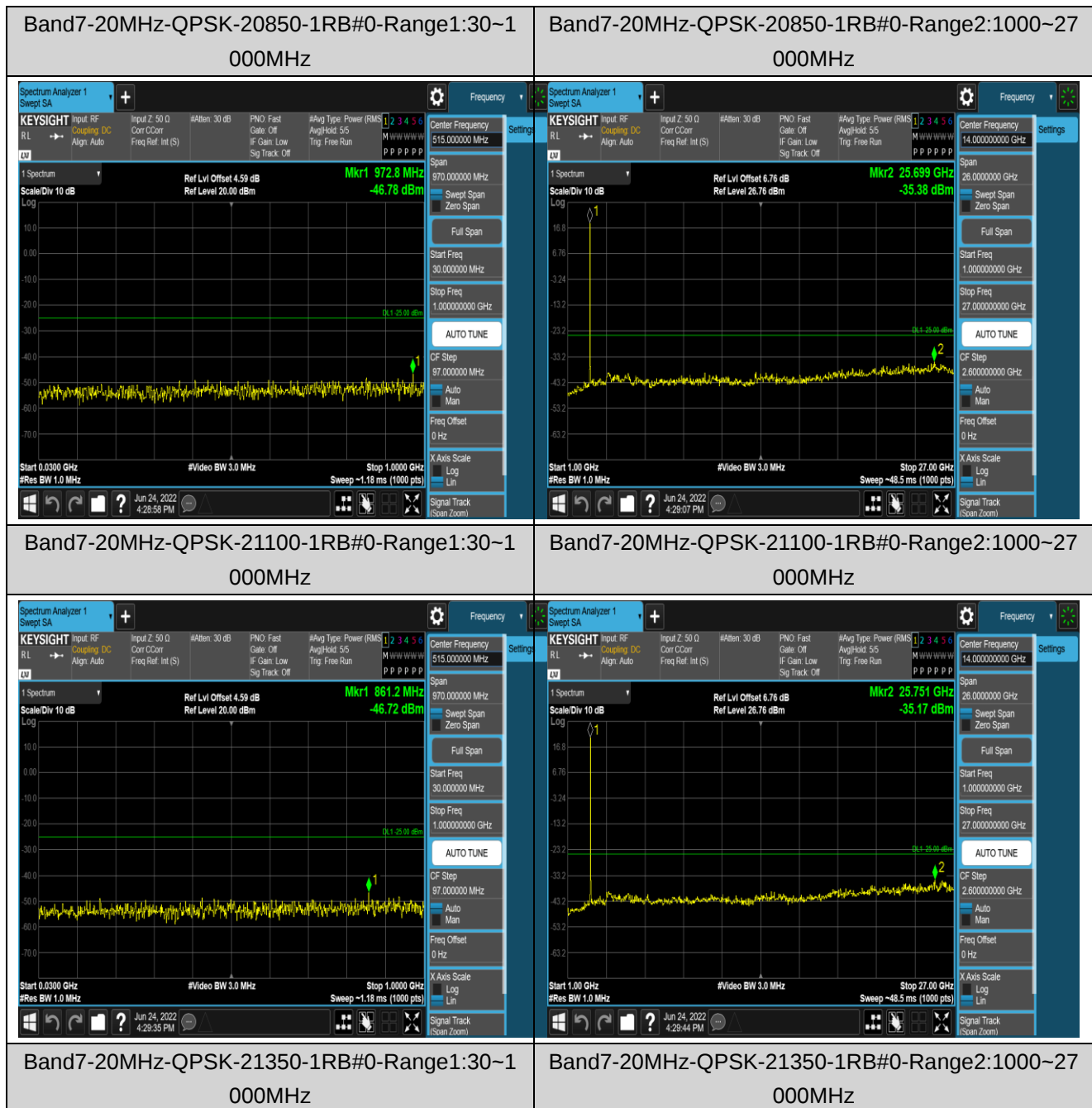


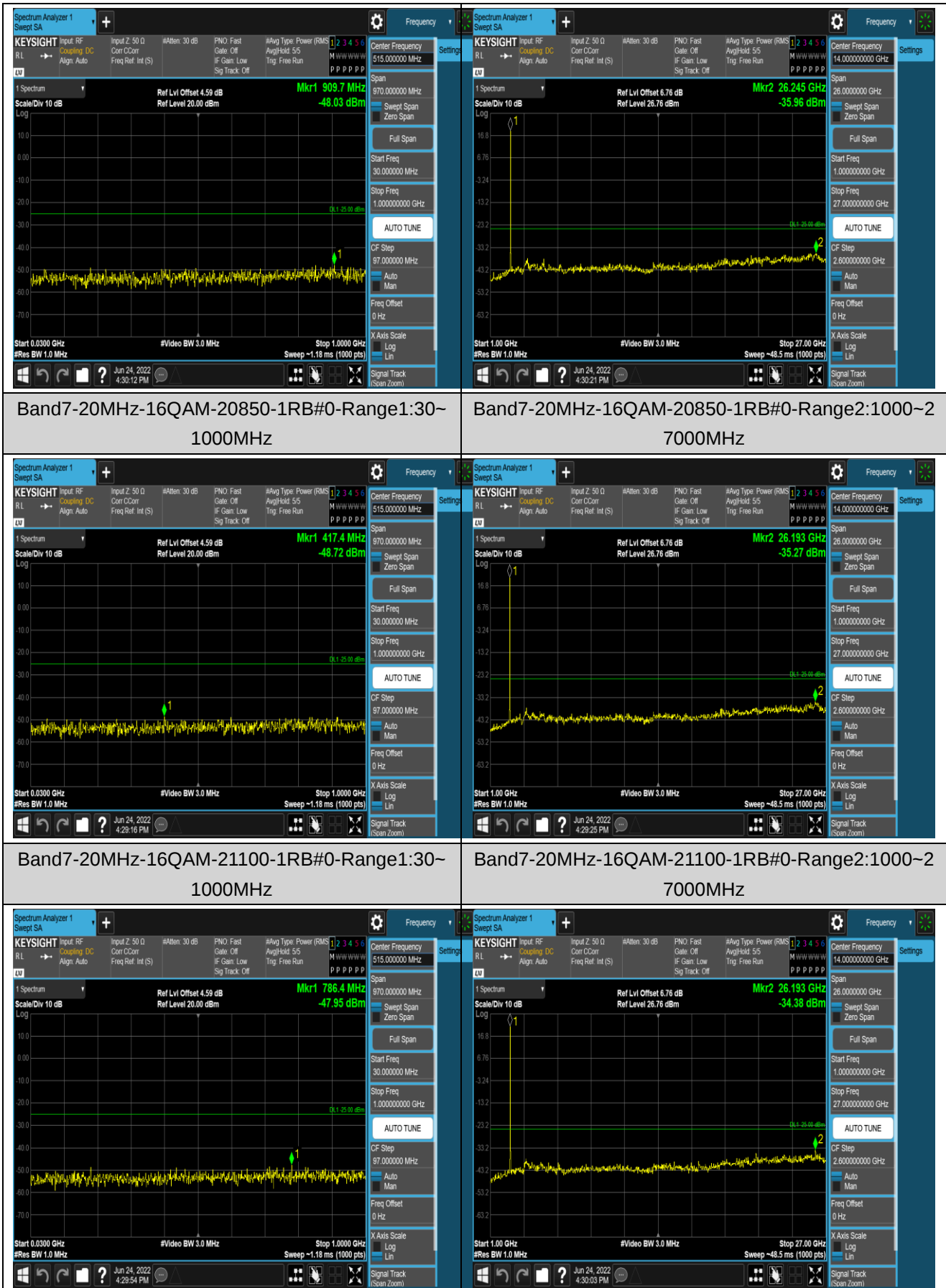
JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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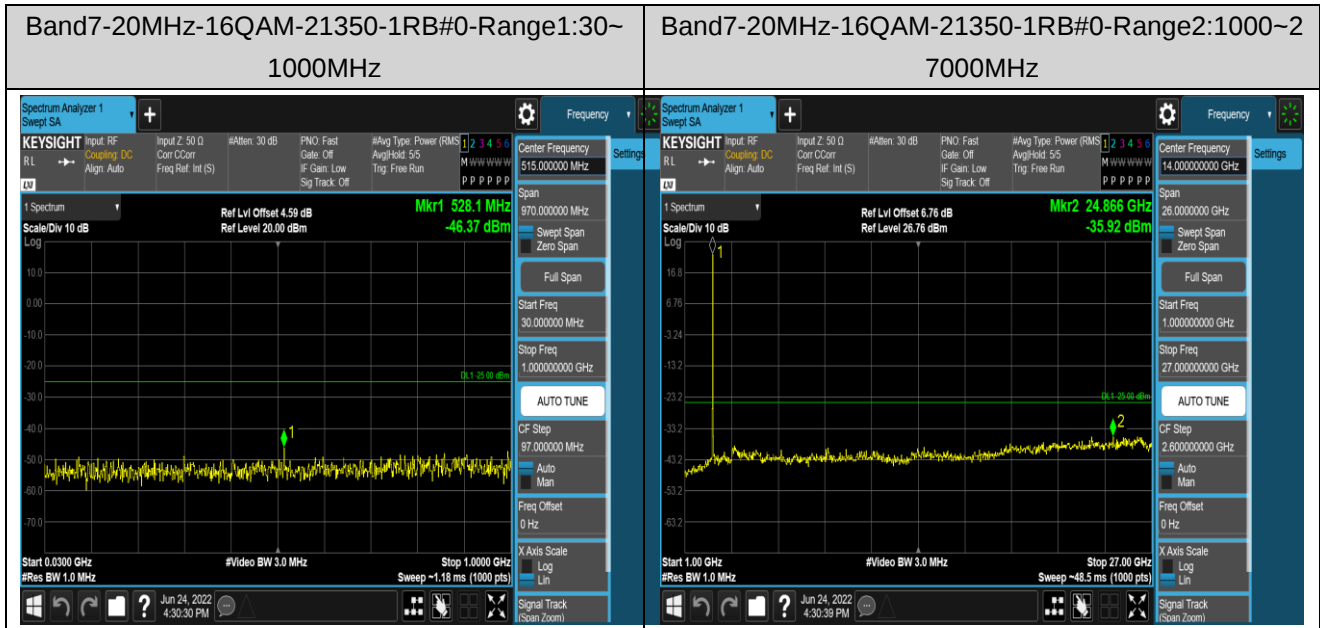


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Project No.: JYTSZR2206046



Appendix F: Frequency Stability

Test Result

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 Frequency=1732.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-6.97	-0.004023	Within authorized band for Band 4	Pass
	-20	4.23	0.002442		
	-10	-2.82	-0.001628		
	0	-4.32	-0.002494		
	10	-6.78	-0.003913		
	20	-3.18	-0.001835		
	30	-7.11	-0.004104		
	40	4.43	0.002557		
	50	-16.29	-0.009403		
16QAM					
3.80	-30	21.87	0.012623	Within authorized band for Band 4	Pass
	-20	3.16	0.001824		
	-10	10.80	0.006234		
	0	23.53	0.013582		
	10	33.82	0.019521		
	20	3.72	0.002147		
	30	25.63	0.014794		
	40	-2.36	-0.001362		
	50	19.08	0.011013		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	8.00	0.004618	Within authorized band for Band 4	Pass
	3.80	20.59	0.011885		
	4.35	6.77	0.003908		
16QAM					
25	3.50	-17.87	-0.010315	Within authorized band for Band 4	Pass
	3.80	-30.13	-0.017391		
	4.35	12.12	0.006996		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-26.15	-0.031261	±2.5	Pass
	-20	-30.37	-0.036306		
	-10	-35.28	-0.042176		
	0	-45.00	-0.053796		
	10	-47.71	-0.057035		
	20	-4.32	-0.005164		
	30	-8.94	-0.010687		
	40	-9.14	-0.010926		
	50	-15.52	-0.018553		
16QAM					
3.80	-30	-4.52	-0.005403	±2.5	Pass
	-20	-5.36	-0.006408		
	-10	7.30	0.008727		
	0	2.16	0.002582		
	10	6.98	0.008344		
	20	-1.89	-0.002259		
	30	-6.95	-0.008308		
	40	-13.68	-0.016354		
	50	-16.39	-0.019594		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	7.25	0.008667	±2.5	Pass
	3.80	18.68	0.022331		
	4.35	-17.85	-0.021339		
16QAM					
25	3.50	8.87	0.010604	±2.5	Pass
	3.80	-11.24	-0.013437		
	4.35	35.65	0.042618		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	-18.81	-0.007420	Within authorized band for Band 7	Pass
	-20	-16.64	-0.006564		
	-10	-12.02	-0.004742		
	0	-11.60	-0.004576		
	10	-8.73	-0.003444		
	20	-16.41	-0.006473		
	30	10.54	0.004158		
	40	-12.59	-0.004966		
	50	-8.83	-0.003483		
16QAM					
3.80	-30	-11.12	-0.004387	Within authorized band for Band 7	Pass
	-20	-9.63	-0.003799		
	-10	-2.63	-0.001037		
	0	-7.81	-0.003081		
	10	-14.51	-0.005724		
	20	-5.89	-0.002323		
	30	-14.93	-0.005890		
	40	-9.90	-0.003905		
	50	-10.53	-0.004154		
Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.50	-21.00	-0.008284	Within authorized band for Band 7	Pass
	3.80	20.04	0.007905		
	4.35	-21.29	-0.008398		
16QAM					
25	3.50	-7.25	-0.002860	Within authorized band for Band 7	Pass
	3.80	-11.73	-0.004627		
	4.35	-9.64	-0.003803		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

Appendix G: 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
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

